

EXPLORATORY EVALUATION OF WATER QUALITY AND FLOW RELATIONSHIPS FOR
THE CHASSAHOWITZKA RIVER IN SUPPORT OF MINIMUM FLOWS REEVALUATION

TECHNICAL REPORT IN FULLFILLMENT OF WORK ASSIGNMENT 18TW0001116:

PREPARED FOR:

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EXECUTIVE SUMMARY

This report details efforts to quantify relationships between spring flows from the Chassahowitzka River head springs and water quality throughout the river system. Water quality is one of 10 “environmental values” defined in the State Water Resource Implementation Rule to be considered when establishing minimum flows. Salinity is a water quality constituent that represents a direct, physical driver for many estuarine processes. However, other water quality constituents can also affect biological resources in the river. This work effort focused on providing an exploratory examination of the relationships between flows and water quality constituents using the most up to date datasets available for the Chassahowitzka River System. The analysis focused on identifying water quality response endpoints that, under certain conditions, could result in adverse effects to a “resource of concern” within the river as a function of reduced flows. Resources of concern are those attributes of the system that relate to one or more of the 10 environmental values identified in the Water Resource Implementation Rule and have potential quantifiable responses to flow. This updated analysis on relationships between spring flows and water quality uses an expanded list of water quality constituents and additional data collected since the District’s original minimum flow report (Heyl et al. 2012) was prepared.

For this analysis, spatial attributes of the river including the headsprings (“Springs”), the “Mainstem” of the river, and the nearshore “Estuary” (outside the river mouth) were identified as potential resources of concern. The specific tasks associated with this work effort consisted of data gathering, exploratory data analysis, stochastic predictive modeling and synthesizing information to supplement existing knowledge on the effects of flows on water quality in the system. Initial tasks included the compilation of available water quality and water quantity data for the Chassahowitzka River and the creation of a Microsoft Access database and database inventory. Additionally, descriptive statistics and plots were generated for each metric of interest to describe both the univariate characteristics and the seasonal and inter-annual distributions. Screening methods were used to identify and qualify potential anomalous data evident in the datasets in the Access database and linear regression was used to explore bivariate relationships between the water quality constituent of interest and flow. Subsequent to initial data compilation and exploration, a statistical analysis plan was developed which outlined potential analytical methods used to approach each of the various data types that exist in the master database. Application of the statistical analysis plan led to the analytical results describing the effects of flows on water quality within the system. Previously developed acceptance criteria for using linear regression relationships in support of minimum flows were applied prior to reporting significant results for linear regression analysis.

For the Springs sites, several water quality constituents were significantly related to flows including alkalinity, calcium, chloride, magnesium, potassium, sodium, and sulfate. This was not a surprising result as it is well known that water that has been in contact with limestone for a relatively short length of time should have low concentrations of calcium and bicarbonate ions; water with a longer period of residency within the flow system should typically have higher concentrations. Total Dissolved Solids is a measure of chemical constituents dissolved in the

groundwater and, in west-central Florida, TDS is mostly influenced by the concentrations of the major ions: calcium, bicarbonate, magnesium, sodium, sulfate and chloride. TDS can be used to estimate the relative residence time of ground water in the aquifer and typically increases as the length of groundwater flow paths increase (SWFWMD 2001).

Nitrogen enrichment is an ongoing concern due to the presence of algal mats (filamentous and epiphytic algae) which were linked to excessive nutrient concentrations. We reevaluated relationships between flow and all forms of available nitrogen for completeness and found that while some statistically significant relationships with flow were established, the results were inconsistent and not directly useful for supporting reevaluation of minimum flows for the Chassahowitzka River System. No significant relationships were found with any organic or total forms of nitrogen in the Springs dataset. In some cases, regressions on inorganic forms of nitrogen (nitrate, nitrite, and ammonia) resulted in significant relationships to flows but were inconsistent. For example, total nitrite at Blue Run Spring suggested a small magnitude positive relationship; increasing concentrations with increasing flow. However, the results of the same analysis for dissolved nitrite in both Blue Run and Ruth Springs suggest an inverse relationship; lower concentrations with higher flows. The only other significant positive relationship observed for a form of nitrogen was for nitrate at Crab Creek Spring and the same analysis on the dissolved fraction of nitrate was negatively related to flow. These findings support those reported by Upchurch et al. (2008) in an analysis of the relationships of nitrate and flows for springs in the Suwannee River Water Management District where 50% of the springs demonstrate that nitrate concentrations increase as discharge from the spring increases; forty-five percent of the springs show no correlation between discharge and nitrate, and 5% have relationships where high discharge was related to lower nitrate concentrations. Upchurch et al. (2008) concluded that that minimum flows could not effectively be utilized to control nitrate discharging from the springs by promoting high discharge. The analysis in this evaluation of water quality in the Chassahowitzka River therefore supports the findings of Upchurch et al. (2008) and Heyl (2012) that the current evidence does not support the conclusion that there is a consistent relationship between these forms of nitrogen and flows.

A similar analysis was conducted for the Estuary data defined as those sample locations outside the mouth of the river in the nearshore estuarine environment. The hydrodynamic model developed to support the reevaluation of minimum flows for the Chassahowitzka River System is considered the best available tool for evaluating the effects of flows on salinity within the mainstem of the river and; therefore, while salinity relationships were evaluated as part of this study, they were only considered as potential criteria for that area outside the hydrodynamic model domain (i.e., the Estuary resource of concern). Analyses of the Estuary data led to conclusions similar to those for the Springs data. There were several significant relationships between spring flows and salinity for stations outside of the mouth of the river; however, given the distance from headsprings, it is more likely that salinity in the estuary is driven by a combination of spring discharge, coastal runoff, wetland storage, direct rainfall, and freshwater discharges from other nearby coastal areas that are all seasonally dependent and to some extent correlated with one another. Therefore, it is not recommended that these relationships in the Estuary be used to support the establishment of minimum flows for the Chassahowitzka

though it may be worth future investigation to identify the relative impacts of these factors on the nearshore estuarine resources of the river.

Analysis of the Mainstem of the river did reveal evidence that chlorophyll a distributions, a proxy for phytoplankton abundance, were found to be significantly related to flows under certain conditions. While healthy phytoplankton populations are essential for a healthy estuary, an excess in phytoplankton abundance can have negative impacts on ecosystem health, and, while chlorophyll concentrations are generally low in the Chassahowitzka River System, there is evidence that the system can be susceptible to high phytoplankton biomass with several chlorophyll concentrations observed above 25 ug/l.

For regulatory purposes, the Florida Environmental Protection (FDEP) has adopted a Total Maximum Daily Load (TMDL) for nitrate in the springs and for total nitrogen (TN) in the upper river (Dodson, et al. 2014). The FDEP split the river into Waterbody Identifiers (WBID). A river kilometer (Rkm) system is also established for the river which begins at the mouth (Rkm 0) and ends at the headsprings (Rkm 9). WBID 1361 the downstream river segment, from Rkm 0 to Rkm 5.9. The TMDL applies to those WBIDs upstream of 1361 including the upper run of the river (WBID 1348D), the main spring vent complex (WBID 1348Z) and Betee Jay Springs (1361B). WBID 1361 is governed by state numeric nutrient criteria (NNC) which include nitrogen, phosphorus and chlorophyll a thresholds for compliance. The upper WBIDs are governed by the TMDL and include nitrogen thresholds but do not include a chlorophyll a threshold.

A mixed-effects logistic regression model was used to predict the probability of a chlorophyll a sample exceeding the NNC of 3.9 ug/l for WBID 1361. While the NNC is defined as an annual geometric mean, because the median and annual geometric mean are related statistics, increasing the exceedance of the standard value for individual samples increases the risk that the AGM will be exceeded. Given that the upstream WBID does not have a site-specific standard for chlorophyll and that the upstream segment is impaired and has a TMDL while the downstream WBID is currently meeting its designated use, the downstream criterion value for chlorophyll was applied to the entire system. The WBID boundary is in an unfortunate location for the evaluation of chlorophyll as it bisects the peak of the spatial distribution. That is, there are low concentrations in the most upstream section of the river, the chlorophyll concentrations tend to peak right at the WBID boundary, and then decrease towards the mouth. This complicates interpretation of the effects of flows on the regulatory criteria but the decision was made to model the effects of flows on the spatial distribution of chlorophyll irrespective of the WBID boundaries, though it limits direct inference to the application of the results to statutory rules regarding impairment. The model results suggested that chlorophyll a distributions were related to spring flows and that there were complex interactions between spring flows, season and location within the mainstem of the river that were predictive of chlorophyll distributions. The model results suggested that reduced flows increased the probability of a sample exceeding the state standard value. The effect of flows was most apparent in May when flows are typically at their seasonal minima.

A principal objective of this study was to perform analysis that could be used to support the reevaluation of the minimum flows for the river. To use the model described above to evaluate the effects of flow reductions on chlorophyll concentrations in the Chassahowitzka River System, a “Baseline” condition reflecting flows unimpacted by withdrawals and 1% to 15% flow reduction scenarios (in 1% flow-change increments) were developed. The period of record for evaluating the flow reduction scenarios was 1998 -2017 to correspond with the period of measured flows within the system. In addition, because the response of chlorophyll to flow was primarily constrained to the portion of the river above river kilometer 4.9, this area was used for the evaluation. Again, although the boundary for 3.9 ug/l chlorophyll standard bisects the peak of the spatial chlorophyll distribution and the WBID associated with the standard only extends upstream to river kilometer 5.9, the standard was used for assessment of chlorophyll concentrations for the entire portion of the river at or upstream of Rkm 4.9. The results of the flow reduction evaluation suggested that a 12% reduction in flows would increase the individual sample exceedance frequency over the Baseline condition by 15% for this section of the river. The 15% change threshold is a prescriptive standard commonly used to identify “significant harm” for criterion used to establish minimum flows.

While the chlorophyll-flow modeling effort utilized the site-specific chlorophyll threshold value to evaluate response to changes in flow, the results were not intended to be used as a direct assessment of whether or not changes in flow would result in compromises to the river’s “Designated Use” as defined in State statute. The chlorophyll concentrations tend to peak at the WBID boundary and then decrease both towards the river mouth and upstream of the boundary. This complicates interpretation of the effects of flows on the regulatory criteria. In addition, it would be beneficial to validate the model with additional data prior to application in a regulatory setting. Instead, the analysis illustrates the utility of this type of modeling to assess the sensitivity of chlorophyll a distribution (a proxy for phytoplankton abundance) in the upper 3 kilometers of the river to changes in flow, and suggests the need for more research in this upstream portion of the river that has displayed evidence of sensitivity to changes in flows. Transect data collected at sites throughout the river segment were valuable in this regard because they provided spatially-intensive water quality data. Because of the spatial distribution of the chlorophyll peak within the mainstem of the river, future data collection efforts should consider spatially-intensive sampling in this portion of the system to test hypotheses developed from this work that chlorophyll a distributions are sensitive to changes in flows in the upper reach of the river. Otherwise, this reevaluation has confirmed many of the findings of the District’s original minimum flows report.

1.0 INTRODUCTION

1.1 BACKGROUND

Florida law (Chapter 373.042 F.S.) requires Florida's Water Management Districts or the Department of Environmental Protection (DEP) to establish minimum flows for rivers, streams, estuaries and springs to identify the limit at which further withdrawals would cause significant harm to water resources or ecology of the area. A minimum flow rule for the Chassahowitzka River System was adopted in 2013 (Rule 40D-8.041, Florida Administrative Code or F.A.C.), with a directive to reevaluate the minimum flow within six years of its adoption. The Chassahowitzka River/Chassahowitzka Spring Group and Blind Spring are included on the Southwest Florida Water Management District's 2017 Minimum Flows and Levels Priority List for reevaluation (and its draft 2018 Priority List), with finalization due in 2019.

As part of the District's efforts to reevaluate the Chassahowitzka River System minimum flow, a work effort was contracted with Janicki Environmental, Inc. in July 2018 (Task Work Assignment (TWA) No: 18TW0001116) to conduct exploratory data analysis through investigation of relationships between springs flows and system water quality. The specific tasks within this TWA consisted of data compilation, exploratory data analysis, stochastic predictive modeling and synthesizing information in support of the minimum flow reevaluation.

This report addresses work under multiple tasks of the TWA. Initial tasks included the compilation of available water quality and water quantity data for the Chassahowitzka River and the creation of a Microsoft Access database and database inventory. Additionally, descriptive statistics and plots were generated for each metric of interest to describe both the univariate characteristics and the seasonal and inter-annual distributions. Screening methods were used to identify and qualify potential anomalous data evident in the datasets in the Access database. The Access database, summary statistics, and tabular/graphical output from the described analyses are provided as attachments to this report. Methods used to compile data, and complete the initial data exploration are described in Section 2.1. Subsequent to initial data compilation and exploration, a statistical analysis plan was developed which outlined the analytical methods used to approach each of the various data types that exist in the master database. The statistical analysis methodology is detailed in Section 2.2.

The results section (Section 3.0) of this report details the results of the outlined statistical analyses. The results section is organized by "Resources of Concern" which were identified as part of the exploratory data analysis process. Within each sub-section of the results section, the specific analytical approach is described as it was applicable to support the reevaluation. This effort included results of exploratory data analysis, identification of a conceptual model, identification of the statistical approach and results of application of the approach as they pertain to supporting the reevaluation for the water quality component. Finally, when applicable, the assumptions and limitations of the approach are also described.

1.2 REPORT OBJECTIVES

The specific objective of the report was to provide documentation, exploratory analysis, and statistical inference regarding the relationships between flows and water quality constituents in the Chassahowitzka River System to support the assessment of the water quality environmental value as part of the reevaluation of minimum flows for the Chassahowitzka River.

2.0 DATA AND METHODS

This section describes the sources of data utilized in this report, the preliminary methods for initial data exploration, as well as the statistical analyses utilized.

2.1 DATA COMPILATION

Figure 2-1 provides an organizational overview of the types of data compiled for this work assignment. Multiple datasets, including all water quality, groundwater discharge, and various ancillary datasets were provided by the District to the project team. Water quality data provided by the District include data from multiple fixed station sampling programs consisting of monthly/quarterly sampling, and from more recently deployed continuous water quality monitoring stations. These programs are described in the subsections below. Additionally, period of record river discharge, rainfall and tide data were downloaded as specified below. Individual datasets were input into the Statistical Analysis Systems (SAS) software package for summarization and analysis

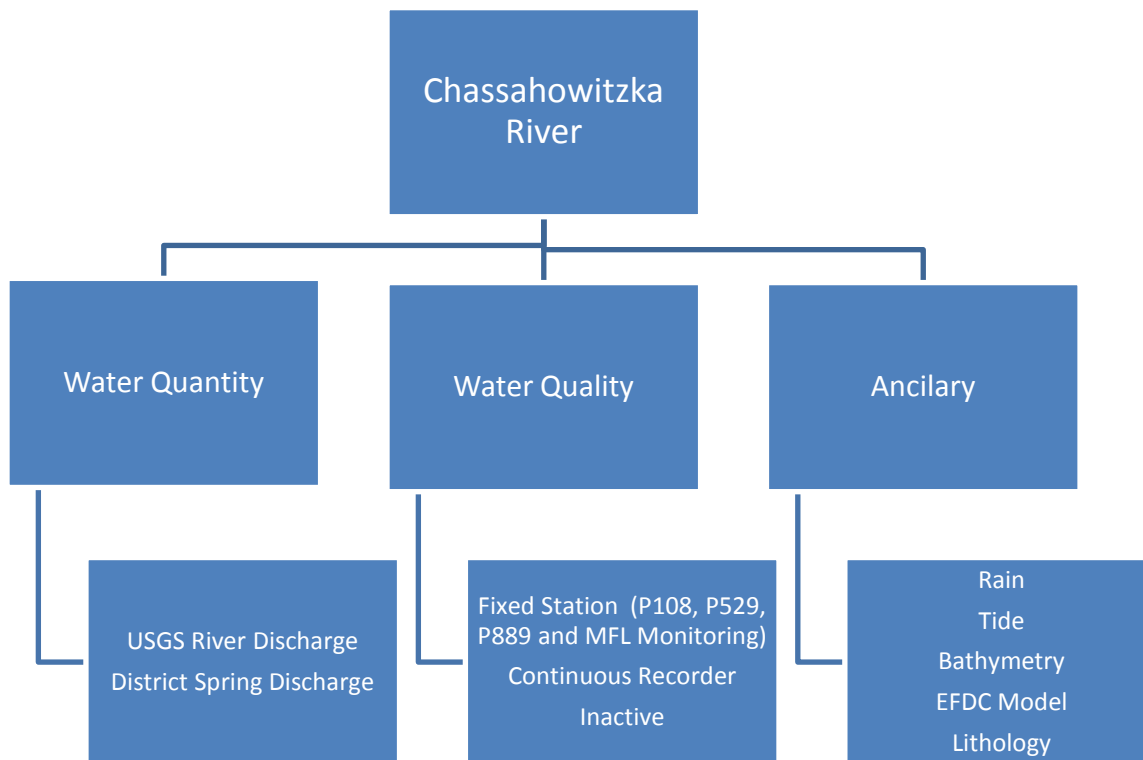


Figure 2-1. Organizational chart for data compiled for this report.

2.1.1 Active Water Quality Monitoring

Active water quality monitoring networks include District Project P108 (Coastal Rivers, Figure 2-2), P529 (Project COAST, Figure 2-3), P889 (Springs, Figure 2-4), and continuous monitoring stations (Figure 2-5).

Fixed surface water stations sampled as part of the District's P108 (Coastal Rivers) monitoring network are displayed in Figure 2-2. Sampling began in late 2005. These stations are sampled quarterly for the District's standard surface water suite of field and laboratory water quality parameters (Table 2-1). Additionally, the continuous monitoring station "Chassahowitzka River Near Homosassa" is co-located at P108 station CV0.



Figure 2-2. Active surface-water sampling conducted as part of the District's surface water quality monitoring network P108 (Coastal Rivers).

Table 2-1. Standard Suite of surface water quality parameters analyzed for the District's P108 monitoring network.	
Ammonia (N) (Total)	pH (Total)*
Calcium (Dissolved)	Phaeophytin (Total)
Chlorophyll a (Total)	Phosphorus- Total (Total)
Color (Dissolved)	Potassium (Dissolved)
Depth (Total)*	Residues- Nonfilterable (TSS) (Total)
Depth, bottom (Total)*	Residues- Volatile (Total)
Dissolved Oxygen (Total)*	Salinity (Total)*
Iron (Dissolved)	Secchi-horizontal (Total)*
Magnesium (Dissolved)	Secchi-vertical (Total)*
Nitrite+nitrate (N) (Total)	Sodium (Dissolved)
Nitrite (N) (Total)	Specific Conductance (Total)*
Nitrogen- Total (Total)	Temperature (Total)*
Orthophosphate (P) (Dissolved)	Turbidity (Total)

*indicates field parameters

Figure 2-3 displays the stations associated with Project P529 (Project COAST). Data collection at these stations began in 1997 and sampling occurred on a monthly basis for a limited suite of field and laboratory parameters by the University of Florida until 2010. Beginning in 2015, the District began collecting and analyzing the original 10 stations on a quarterly basis. The District also expanded the suite of parameters to match the parameter list for P108 (Table 2-1).



Figure 2-3. Active surface water stations associated with P529 (Project COAST).

The District established a dedicated monitoring program for the spring vents in the Chassahowitzka in 1992 and has conducted routine sampling on a quarterly basis since then. Standard District water quality parameters for spring sampling are provided in Table 2-2.

Table 2-2. Standard District groundwater (spring) parameters.	
Alkalinity (Total)	Nitrogen- Total (Total)
Aluminum (Dissolved)	Orthophosphate (P) (Dissolved)
Ammonia (N) (Total)	pH (Total)*
Boron (Dissolved)	Phosphorus- Total (Total)
Calcium (Dissolved)	Potassium (Dissolved)
Carbon- Total Organic (Total)	Residues- Filterable (TDS) (Dissolved)
Chloride (Dissolved)	Silica – Dissolved (Dissolved)
Color (Dissolved)	Sodium (Dissolved)
Dissolved Oxygen (Total)*	Specific Conductance (Total)*
Fluoride (Dissolved)	Strontium (Dissolved)
Iron (Dissolved)	Sulfate (Dissolved)
Magnesium (Dissolved)	Temperature (Total)*
Manganese (Dissolved)	Turbidity (Total)
Nitrite (N) (Total)	

*indicates field parameters

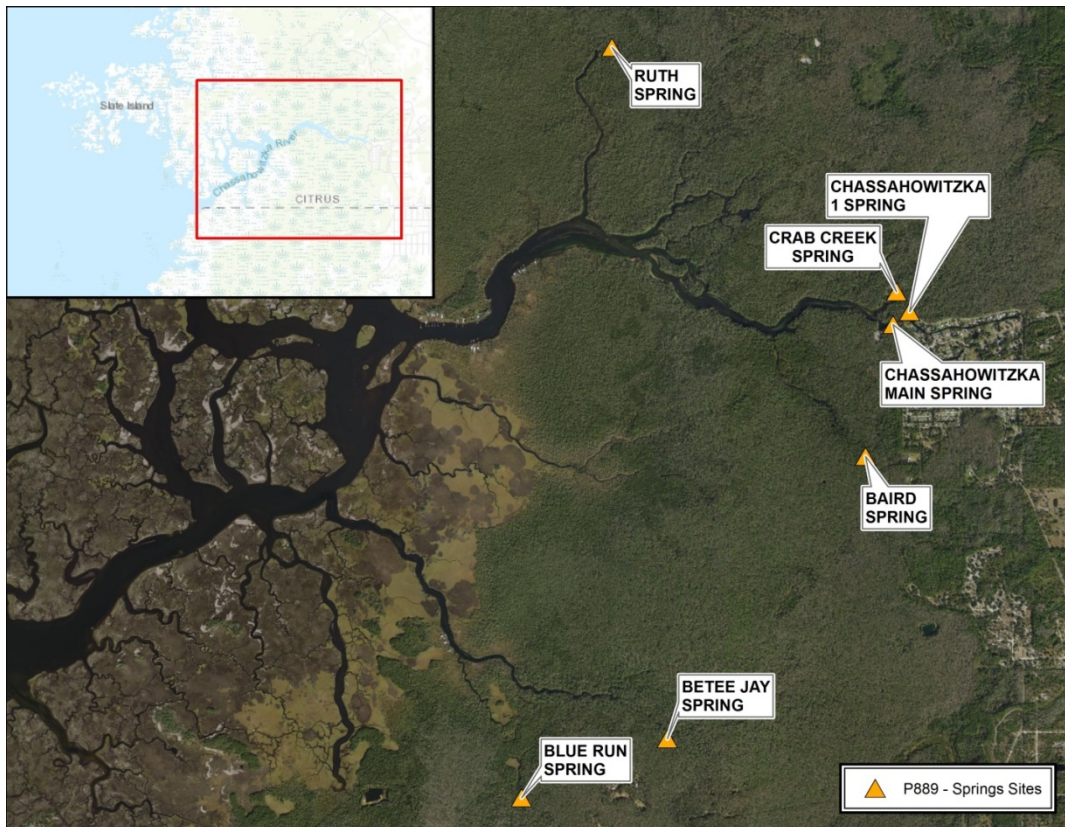


Figure 2-4. Active spring sampling locations in the Chassahowitzka watershed (project P889).

The District provided data for three experimental water quality continuous monitoring recorders on the Chassahowitzka River (Figure 2-5). These data have a short period of record, beginning in 2017. The Chassahowitzka River near Homosassa site is monitored continuously for temperature, pH, conductivity, salinity, dissolved oxygen and depth. The other two sites are monitored for a broader suite of parameters listed in Table 2-3. In addition to the continuously recorded parameters, grab samples are taken at a frequency of every three to four weeks for the full suite of parameters listed in Table 2-3.

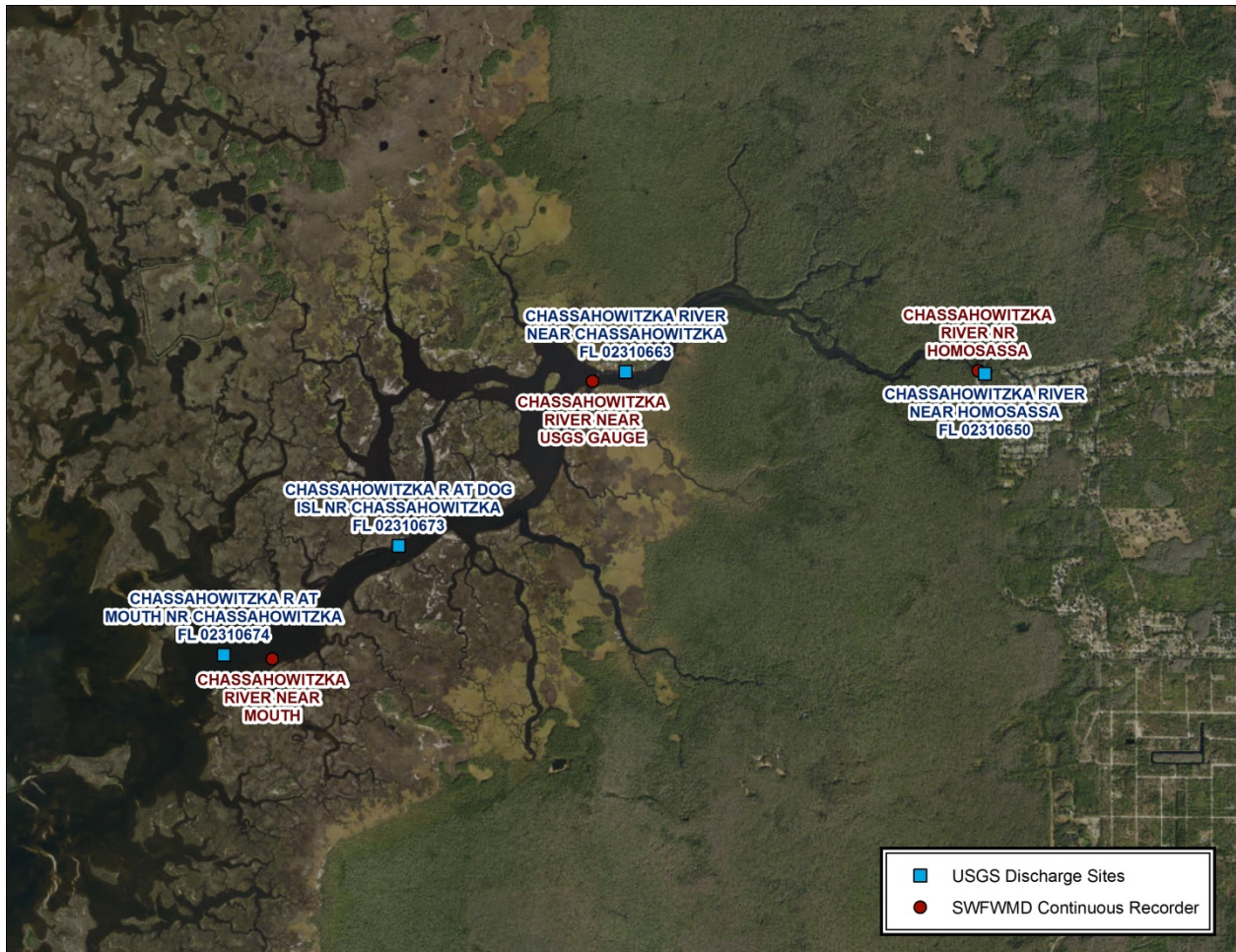


Figure 2-5. Water quality continuous recorders (red circles) on the Chassahowitzka River. Blue squares indicate the locations of USGS river discharge gages.

Table 2-3 Parameters measured at the continuous recorders at Chassahowitzka River Near Mouth and Chassahowitzka Near USGS Gauge.	
Temperature	fDOM
Depth	Chlorophyll
Conductivity	Turbidity
pH	Salinity
Dissolved Oxygen (mg/L and %)	Nitrate
Light Spectrum	Dark Spectrum

2.1.2 Inactive Water Quality Sampling

In addition to the active sampling stations in the Chassahowitzka, the District provided datasets from previous studies in the Chassahowitzka that were initiated to better understand the relationship between water quality and ecology of the system. In particular, the District contracted with the University of Florida to conduct sampling and analysis to evaluate the relationship between water quality and ecology of the five spring fed river systems in west central Florida (Frazer et al. 2001; 2006). This study was conducted via quarterly sampling between 1998 and 2011 (with a data gap between 2001 and 2003). For this study, 20 locations (i.e. transects) were established along the length of the river, with three sampling points located laterally across the river at each of the 15 upstream transect locations and a single site at the lowest five sites in the system. The water quality constituents measured associated with the study included data on alkalinity (mg/l), chlorophyll a (ug/l), color (pcu), dissolved oxygen (mg/l), ammonium (ug/l), nitrate (ug/l), soluble reactive phosphorus (ug/l), salinity (psu), temperature, total nitrogen (ug/l), and total phosphorus (ug/l). The transect locations are provided in Figure 2-6. The other inactive stations had few sampled over short or intermittent duration and were not useful in support of reevaluation of water quality in support of minimum flows. Surface water quality constituents with more than 20 observations from inactive stations are listed in Table 2-4.

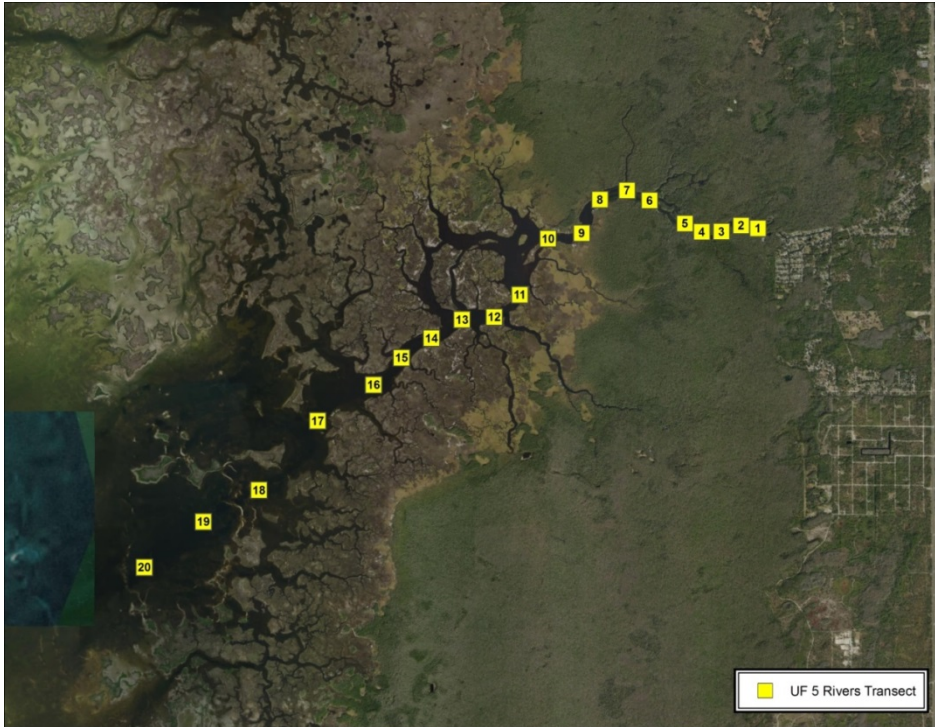


Figure 2-6. University of Florida 5 Rivers Study transect locations on the Chassahowitzka River.

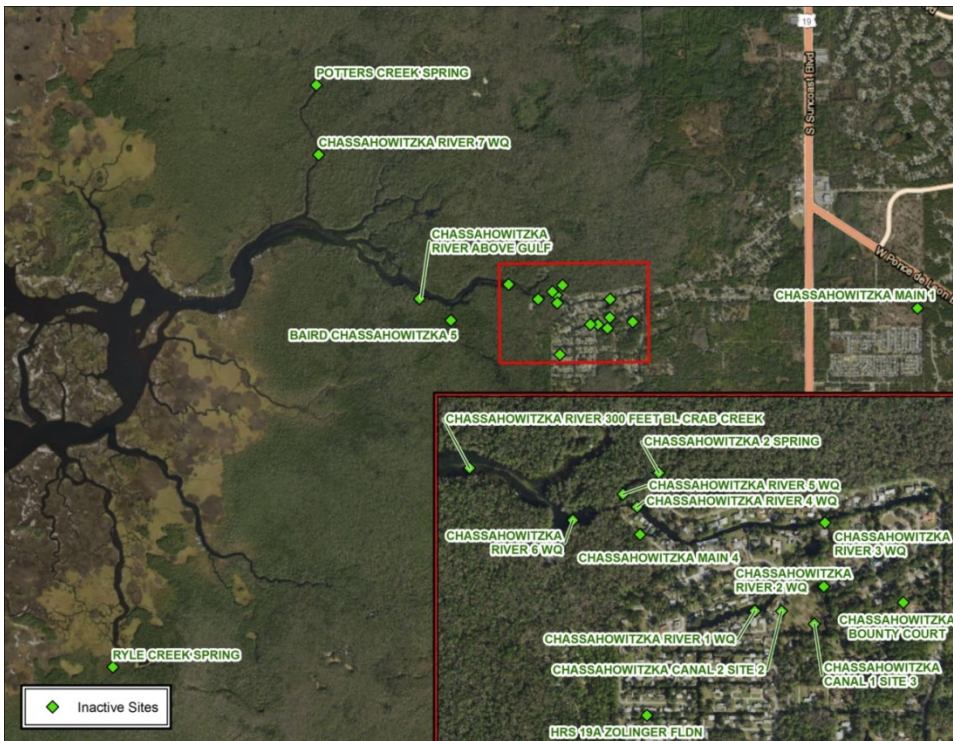


Figure 2-7. Inactive water quality monitoring stations on the Chassahowitzka River for which the District provided data.

Table 2-4. Surface water quality parameters sampled from Inactive water quality monitoring with n > 20.	
Ammonia (N) (Total)	pH (Total)*
Calcium (Dissolved)	Pheophytin (Total)
Chlorophyll a (Total)	Phosphorus (Total)
Color (Dissolved)	Potassium (Dissolved)
Depth (Total)*	Residues- Nonfilterable (TSS) (Total)
Depth, bottom (Total)*	Residues- Volatile (Total)
Dissolved Oxygen (Total)*	Salinity (Total)*
Iron (Dissolved)	Secchi-horizontal (Total)*
Magnesium (Dissolved)	Secchi-vertical (Total)*
Nitrite+nitrate (N) (Total)	Sodium (Dissolved)
Nitrite (N) (Total)	Specific Conductance (Total)*
Nitrogen- Total (Total)	Temperature (Total)*
Orthophosphate (P) (Dissolved)	Turbidity (Total)

*indicates field parameters

2.1.3 Hydrologic Data

USGS discharge and/or stage data for the Chassahowitzka River were downloaded for the available period of record from the National Water Information System (NWIS; <https://waterdata.usgs.gov/nwis>). These gages are shown below in Figure 2-8. USGS discharge data include a data qualifier indicating whether each data record has been “Accepted” (A) or remains “Provisional” (P). Much of the discharge data from late 2017 into 2018 are flagged as “Provisional” and such data should be used with discretion.



Figure 2-8. Location of Chassahowitzka River USGS flow/stage gages.

In addition, rainfall data (station name = Inverness3SE, station id = USC00084289) were downloaded for the period of record from the National Climate Data Center (NCDC; <https://www.ncdc.noaa.gov/cdo-web/>). Tide data (Station 872750 Cedar Key, FL; datum = MLLW) were downloaded for the period of record from the National Oceanic and Atmospheric Administration (NOAA) Center for Operational oceanographic Products and Services Tides and Currents webpage (<https://tidesandcurrents.noaa.gov/>). These sites are shown in Figure 2-9.



Figure 2-9. Locations of NCDC rainfall station and NOAA tidal gage relative to the Chassahowitzka and Homosassa Rivers.

2.1.4 Data Screening Methods

The Task 2 report was accompanied by a master database of all available water quantity, water quality, and available ancillary datasets compiled for the Chassahowitzka River and quality control procedures were used to identify potential anomalous values. Many of the raw datasets downloaded, or received from the District, contain at least one column indicating the quality of each data record. Water quality grab sample data include a designated qualifier column containing FDEP data qualifier codes as applicable. A list of these qualifier codes is provided in Appendix A. Certain qualifier codes indicate the data should not be utilized in analyses. The following qualifiers were not used in the analysis:

"Y" = flag for improperly preserved sample;

"Q" = flag for out of hold time;

"T" = not to be used for analysis; and

"?" = data rejected and should not be used.

It is important to note that a data qualifier including "U" indicates that a compound was analyzed for but not detected. The value associated with the qualifier is the laboratory method detection

limit (MDL) though the actual MDL values were not always reported. These values were retained as reported for analytical purposes.

Two data screening methods were used to identify potential anomalous values in each examined dataset. The purpose of the screening methods was simply to identify data points for further investigation, no data were eliminated from the database based on this analysis. Two screening methods were used; an extreme value screening method (e.g. ± 3 standard deviations from the mean) and a functional screening method that evaluates deviations from an expected value based on a timeseries of data using robust regression (SAS Institute, Inc. 2016). Columns were added to the database to identify whether or not each value met the criteria to qualify as a specific data point worthy of further investigation as an anomalous value and these columns were later used in the statistical analysis. A complete list of descriptive statistics and descriptive plots for all constituents evaluated and delivered in the master database was delivered in fulfillment of Task 2 and is provided in this document as Appendix B.

2.2 STATISTICAL ANALYSIS METHODS

A statistical analysis plan was developed as Task 3 of this work effort. The Task 3 document outlined a conceptual analytical pathway to guide the analysis. The analytical pathway is outlined in Figure 2-10.

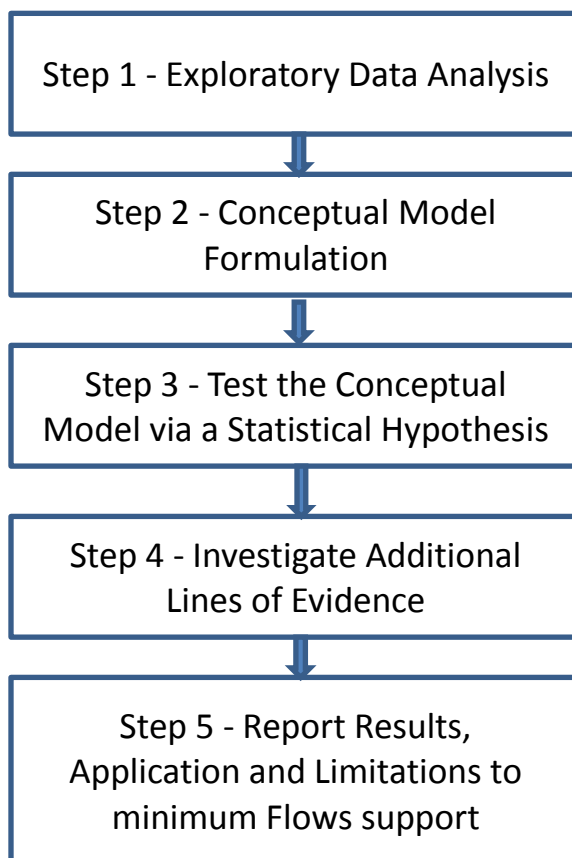


Figure 2-10. Analytical flow path in support of reevaluation of the Chassahowitzka River MFL.

The statistical tools applied to this project include ordinary least squares linear regression, general and generalized linear models with the potential inclusion of random effects, timeseries modeling, and semi- and non-parametric techniques including regression and classification trees. Each of these tools is described in a sub-section below.

2.2.1 Ordinary Least Squares Regression

Ordinary least squares (OLS) regression was used primarily as an exploratory data analysis tool to describe bivariate relationships between flow and a particular analyte of interest. OLS regression maps a response variable such as salinity to a potential explanatory (predictor) variable (e.g. spring discharge). This is accomplished by defining an intercept and a slope for the predictor that defines a straight line minimizing the sum of squared deviations from the line (Zar 1984). Application of OLS regression provides a reference line through the bivariate distribution that can aid in the selection and elimination of those analytes that are not linearly responsive to flow. A linear regression equation is expressed as:

$$Y_i = \alpha + \beta X_i + e_i$$

Where :

Y is the response, X is the predictor, i is an index to the individual observation,

e is the error, α is the intercept, and β is the slope of the regression line.

The regression coefficient of determination (R^2) is one measure of the variance in the dependent variable that is explained by the model. In linear regression, it is assumed that the data are independent samples from the population. Another important assumption of linear regression is that the error term of the model is normally distributed, with constant variance. However, at times, water quality data do not conform to these assumptions. Data transformations such as natural log transforms can help to satisfy the assumption of normality and heteroscedasticity but will not correct for dependencies in the data structure. Given the number of analytes evaluated in the exploratory data analyses, linear regression was used as a screening method to refine hypotheses related to the overarching project goal and more sophisticated regression modeling techniques were used where there was a potential to generate inferences that could inform the reevaluation of minimum flows for the Chassahowitzka River. These more sophisticated techniques are described in the next sub-section.

2.2.2 General and Generalized Linear Models

General and generalized linear models are extensions (generalizations) of OLS regression models that allow for more flexibility in accounting for artifacts of the data that may affect the underlying assumptions of OLS regression. General linear models are applied when the response variable is continuous and generalized linear models are applied when the response variable is binary or count data. Both classification and continuous predictor variables are

allowed and can be expressed as either fixed or random effects representing the deterministic component or the variance component of the model, respectively (Littell et al. 1996).

An example of using a general mixed effects model is provided by the equation below that regresses chlorophyll concentrations on spring discharge. The deterministic component produces a parameter estimate of the intercept and slope and tests that they are different from zero while the random component of the model allows for each station to have a separate intercept and for the correlation among samples collected at different stations to be accounted for in the error variance. The likelihood ratio test can be used to compare the mixed effects parameterization relative to the null model and Akaike Information Criteria (AIC) can be used to evaluate the model improvement for nested models of the same family. We used a modification of AIC that includes a penalty for including additional model parameters (AICC) in the model evaluation (SAS Institute, Inc. 2016). Residual diagnostics are also helpful to assess model fit and assumptions associated with the regression.

$$Y_{ij} = \beta_0 + \beta_{0j} + \beta_1 * X_{ij} + e_{ij} + e_j$$

Where:

Y_{ij} = chlorophyll concentration for each sample (i), and station (j)

X_{ij} = spring discharge for each date (i), and station (j)

β_0 = overall intercept

β_{0j} = random intercept for station

β_1 = deterministic effect of spring discharge on chlorophyll

e_{ij} = residual ($N_{(0)}$ iid)

e_j = residual covariance among samples taken at the same station

Generalized linear models are similar to general linear models except the response variable can be from alternative distributions. Logistic regression is an example of a generalized linear model. The formulation is nearly identical to those models above in that they are all linear (i.e. additive) models but generalized linear models use a link function to map the response variable to a known distribution, generally of the exponential family. Logistic regression in particular is useful if there are important critical threshold values for an analyte of interest, above which results in some adverse effect; for example, if it were known that a chlorophyll concentration above some threshold value resulted in an adverse effect to the ecology of the system. The general equation for a mixed effect logistic regression model is provided below. Notice that there is no error term as the variance is modeled as a function of the mean value; the formulation for the random effects is therefore included within the link function.

$$g(E[Y | \gamma]) = \log\left(\frac{P_{(y=1)}}{1 - P_{(y=1)}}\right) = X'\beta + Z'\gamma$$

Where :

$X'\beta$ = Fixed effects

$Z'\gamma$ = Random effects

$\log\left(\frac{P_{(y=1)}}{1 - P_{(y=1)}}\right)$ = link function mapping presence absence to independent terms

$g(E[Y | \gamma])$ = response conditional on random effects

γ = Random effect $N(0, \sigma^2\gamma)$

We used this model formulation to evaluate the effects of changes in flows on the water column phytoplankton distribution throughout the mainstem of the river.

2.2.3 Robust Regression

Robust regression is a method to account for highly influential data points that may affect statistical inference (Chen 2002). The method relies on iteratively reweighted least squares which successively down weights observations with large residuals until reaching convergence criteria established to evaluate the change in the parameters' estimates. By iteratively reweighting the values, the resulting parameter estimates are "robust" to the influence of extreme values in the dataset and therefore the procedure is robust to deviations from assumptions about the data distribution, heterogeneity of variance, and other assumptions of traditional OLS regression approaches. Robust residuals are calculated along with robust standard errors and these estimates can be used to evaluate the robust regression fit to the data. Robust regression was performed as part of the quality control checks where outliers were identified in the dataset for further examination. For example, Figure 2-11 provides an example of a timeseries of turbidity measurements for a water quality station in the Chassahowitzka River. The robust regression identified several outliers in the timeseries (denoted by red open triangles) and adjusted the intercept and slope of the regression line to down-weight the influence of those outliers. The principal use of robust regression for this project is to detect outliers in an objective way.

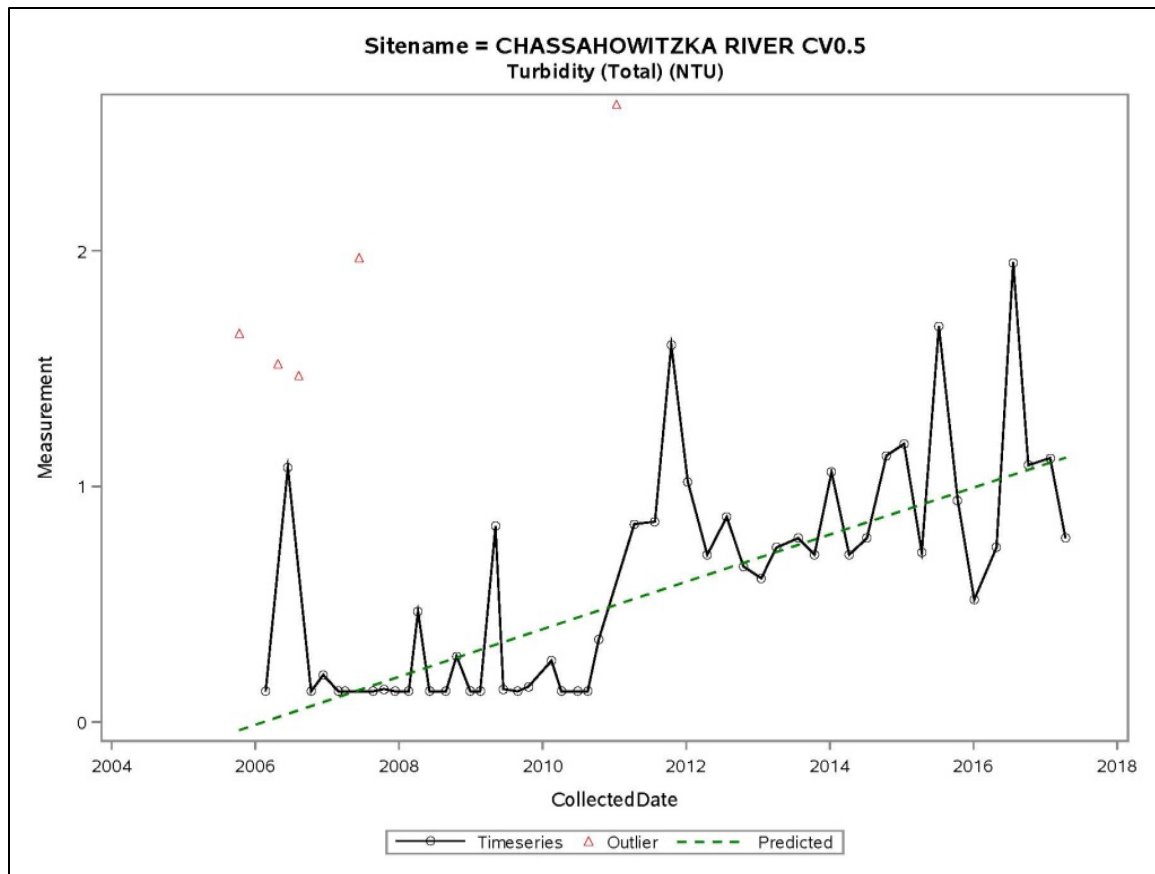


Figure 2-11. Example of application of robust regression to a total turbidity timeseries for a station in the Chassahowitzka River.

2.2.4 Time Series Trend Tests

Evaluation of long-term trends was performed using the seasonal Mann-Kendall (SMK) test for trend (Hirsch et al., 1982; Hirsch and Slack, 1984) which was developed by the USGS in the 1980s to analyze trends in surface-water quality throughout the United States. The SMK test was modified from the Mann-Kendall trend test (MK, a measure of rank correlation to measure the association between measured quantities), in that the MK test is first performed for individual seasons (months or quarters), and the individual results are combined into an overall test for whether the dependent variable changes in a consistent direction (monotonic trend) over time (Helsel et al., 2006). Time series trend tests were conducted for the long-term spring discharge records as well as specific water quality constituents that may be affected by anthropogenic influences over time as well as changes in spring discharge.

2.2.5 Conditional Inference Trees

Conditional inference trees are a class of permutation-based methods also known as “Decision Trees” or “Regression and Classification Trees”. This class of methods is applicable to all kinds of regression problems, including nominal, ordinal, and continuous data. A conditional inference tree methodology (Hothorn et al., 2006) was used as one line of evidence for evaluating water quality stressor-response relationships. The approach is based on recursive partitioning. The

partitioning process iteratively searches for a point in the stressors variable which maximizes the difference in the response values between two groups of response data. No *a priori* threshold is specified. The regression tree approach defines the breakpoint as that which maximizes the difference between groups by minimizing the p value associated with some statistical test. The point in the stressor variable at which the p value is minimized, after adjustment for multiple comparisons, is assigned as the breakpoint defining the split of the response variable into two groups. Once the first split is made the process continues to test for subsequent splits that are conditional on the first split; hence, the term “conditional inference” or “conditional probability analysis”. Multiple explanatory covariates can be included in the analysis to identify multiple drivers of response dependent on the range of values and can indicate the presence of synergistic relationships among potential explanatory analytes including discharge.

2.2.6 Statistical Analysis of High Frequency Water Quality Data

High frequency (aka continuous) water quality data collection can be a useful tool to identify the different periods of time over which cyclical variability is observed, and to relate these period scales to physical (for example, tides, both diurnal and lunar) and biological (for example, primary production, typically daily) drivers (Downing et al. 2017). One goal of these data collection networks is often to identify important patterns of variation (frequencies) in the continuous monitoring data. For example, the relative variability of within- and between-day variation is important to put grab sample data in the context of within-day variability. In some instances, frequency analysis such as wavelet or spectral analysis can be used to assess different temporal signatures in the underlying data if those periodicities can predict return intervals. Descriptive plots were constructed to put the timeseries data into context of within- and between-date variability. Base functions in the R computing language (R Core Development Team 2008), and the timeseries regression and seasonal decomposition functions in the forecast package (Hyndman 2018) were used as necessary to decompose the timeseries of continuous water quality data, and to identify frequencies relevant for future evaluation. Given the limited period of record for the high frequency data collected in the Chassahowitzka River it is unlikely that analysis of these data will directly inform criteria useful to the reevaluation of the minimum flows. However, analysis provided information on the dominant forms of variability on these data relative to high-frequency periodicities, like fluctuations in tidal amplitudes associated with moon phase, and low-frequency periodicities that represent more long-term seasonal, or possibly flow related, signals.

3.0 RESULTS

The water quality monitoring networks described in Section 2 were established to evaluate different aspects of water quality in the Chassahowitzka River. For example, the “Springs” stations were established to characterize the water quality within the spring vents at, or near, low tide. On the other hand, the UF transects were established to characterize the spatial distribution in water quality for the mainstem of the river using a spatially intensive water quality monitoring design. In this way, each monitoring network represents not only the data sources, but also critical resources of concern within the system. Therefore, the following sections describe the results of data analysis for each of these resources of concern including: the Spring Vents, the Mainstem of the River, and the Estuary. For each of these resources of concern we evaluated the relationship between water quality constituents of interest and flows as directed by the scope of work, and investigated the potential for the constituent to result in an adverse effect that could, under sufficient magnitude and duration, result in significant harm to the integrity of the resource. Therefore, a summary of the flows used for this analysis are also provided as a section in this report.

The organization of the results section follows the description and application of the analytical pathway discussed in Section 2 by first describing the results of exploratory data analysis, then defining a conceptual model that related flows to the resource of concern and then evaluating whether or not a relationship exists that can be useful to support the development of minimum flows for the system. The continuous water quality recorder data represent a special case to evaluate fine scale temporal changes in water quality both within a day and between dates within weeks, months, and seasons. These data have been collected for approximately one year at specific locations in the main stem of the river and therefore are more representative of high frequency variability at a particular location in the river rather than a long-term representation of the expected condition for the system as a whole. The continuous recorder data were evaluated in this context and results provided as a separate section in the report.

3.1 FLOW GAGE OF RECORD

The gage of record for the Chassahowitzka is the USGS Chassahowitzka Near Homosassa (USGS 02310650:Figure 3-1 in red). The District provided a long-term flow record for the reevaluation to be consistent with the methods used in the 2012 MFL report (Heyl et al. 2012) but updated with new data. The continuous daily discharge record for USGS 02310650 began in 1997 and stage measurements began in 1999. The latest reported gage data from 02310650 were downloaded from USGS NWIS. Where index velocity data were available, those data were used; otherwise, data reported by USGS based on regression methods were used. Where data were missing, a regression relationship developed by the District (Heyl 2010) between Weeki Wachee well and flows at the gage of record was used to predict missing values and extend the flow record back in time. It is important to note that the Chassahowitzka River system receives discharge from smaller springs as well as receiving diffuse groundwater discharge but that these are not part of the flow record used to establish minimum flows. While other flow gages are available, their period of record is quite short and more tidally influenced.



Figure 3-1. Chassahowitzka River USGS flow gages with the long term flow gage of record for the established minimum flow and minimum flow reevaluation identified (in red).

The timeseries of the final long-term flow record is presented in Figure 3-2. The top plot is the daily flows and the bottom plot is the daily flows with a 21-day lag average overlay. The change in estimation method is evident with reduced variability in the daily record for the period where the estimates are based strictly on well data. The 21-day average timeseries reduced the intra-daily variability considerably but maintains the same underlying trend in the data.

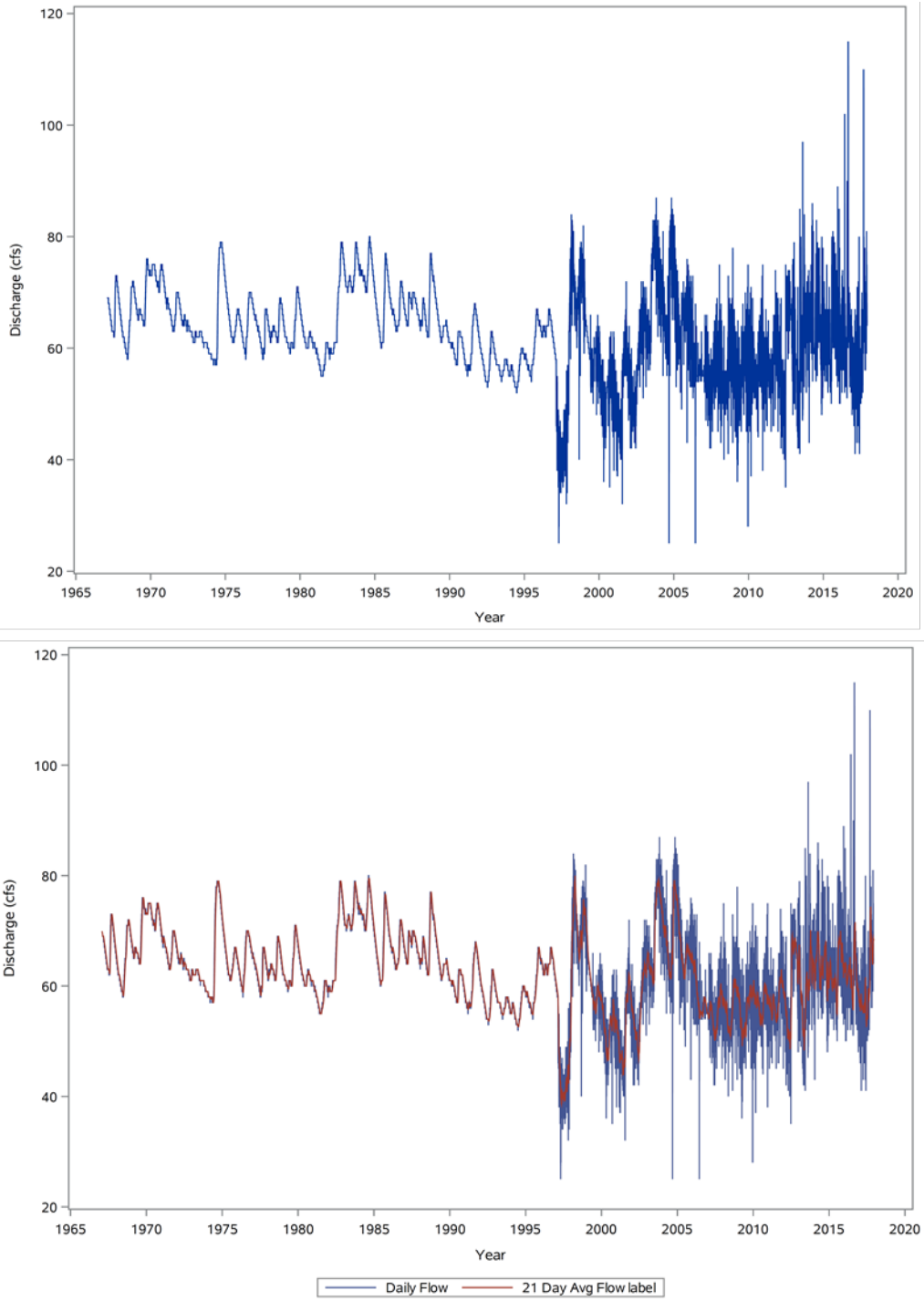


Figure 3-2. Long-term flow record for the Chassahowitzka River minimum flow analyses, including the daily flows (Top) and the 21 day average flows red overlaid on the daily flow in blue (Bottom).

Summary statistics and a histogram for the long-term Chassahowitzka River flows are provided in Figure 3-3. The mean (62 cfs) and median (62.5 cfs) values are very similar, within 1 cfs of each other. The range between the 5th (P5) and 95th (P95) percentiles is around 24 cfs, which is less than 50% of the median flow. Quantile plots against the normal distribution (Figure 3-4) suggest slight deviations from the normal distribution.

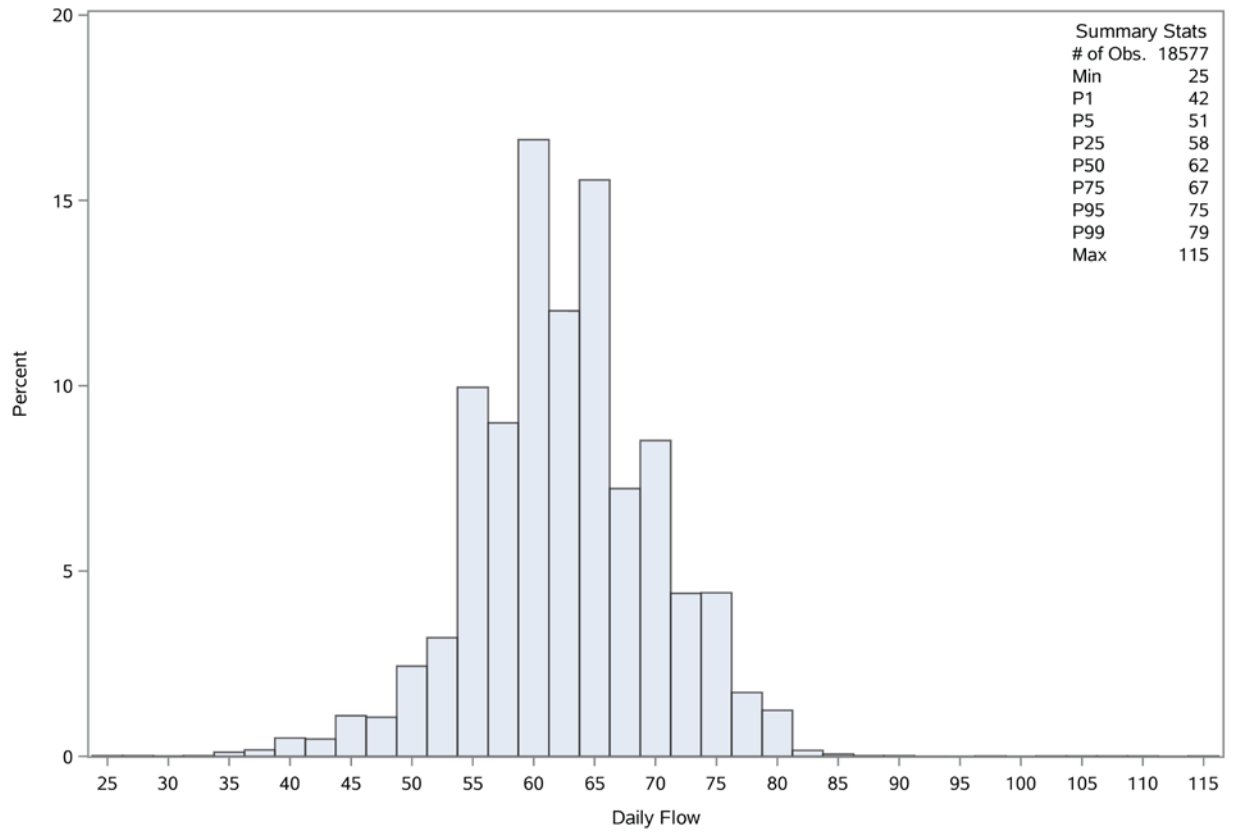


Figure 3-3. Summary statistics and histogram for the long-term flow record for the Chassahowitzka River minimum flow reevaluation.

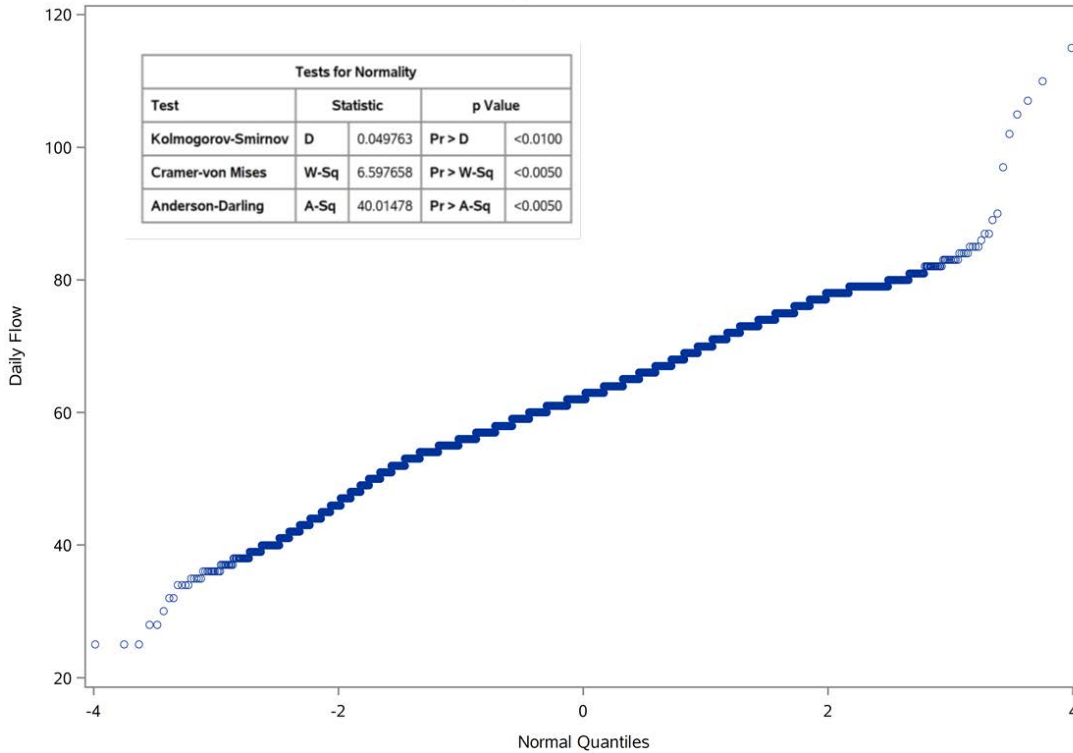


Figure 3-4. Quantile plot of long-term Chassahowitzka flow record against the normal distribution.

Lag averages of the flows were highly correlated out to a 30-day average (Table 3-1) indicating that any of these estimates are nearly equally likely to serve as deterministic components to assess the effects of flows on changes in resources of concern.

Table 3-1. Spearman's rank correlation matrix for lag average flows to 30 days using the long term flow record for the Chassahowitzka River.									
Flow Statistic	Daily Flow	2d mean	3d mean	5d mean	7d mean	8d mean	14d mean	21d mean	30d mean
Daily Flow	1.00	0.98	0.96	0.95	0.95	0.94	0.94	0.93	0.92
2d mean	0.98	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.95
3d mean	0.96	0.99	1.00	0.99	0.98	0.98	0.97	0.97	0.96
4d mean	0.95	0.98	0.99	1.00	0.99	0.99	0.98	0.97	0.96
5d mean	0.95	0.98	0.99	1.00	1.00	0.99	0.99	0.98	0.97
6d mean	0.95	0.97	0.99	1.00	1.00	1.00	0.99	0.98	0.97
7d mean	0.95	0.97	0.98	1.00	1.00	1.00	0.99	0.99	0.98
8d mean	0.94	0.97	0.98	0.99	1.00	1.00	0.99	0.99	0.98
14d mean	0.94	0.96	0.97	0.99	0.99	0.99	1.00	1.00	0.99
21d mean	0.93	0.95	0.97	0.98	0.99	0.99	1.00	1.00	1.00
30d mean	0.92	0.95	0.96	0.97	0.98	0.98	0.99	1.00	1.00

The seasonality in the monthly median flows is portrayed in the box and whisker plots of Figure 3-5. Seasonality is evident in the plot with lower flows in May – July and highest flows in September and October; however, as noted in Heyl et al. 2012, the variation in these flows is small relative to a typical surface water dominated system. Monthly median flows were calculated for the period of record and the Seasonal Mann-Kendal (SMK) test for trend was used to evaluate the trend over time. The SMK tests the slope of the time series trend for each month and combines the results to report a statistic representing the significance of the combined results. The results of the SMK test suggest a significant declining trend in discharge values over time ($p < 0.001$; Figure 3-6). These flow trends are very similar to the trends observed in Weeki Wachee Wells that were used to develop estimates of historical flows for the Chassahowitzka (Heyl 2010: Figure 3-7).

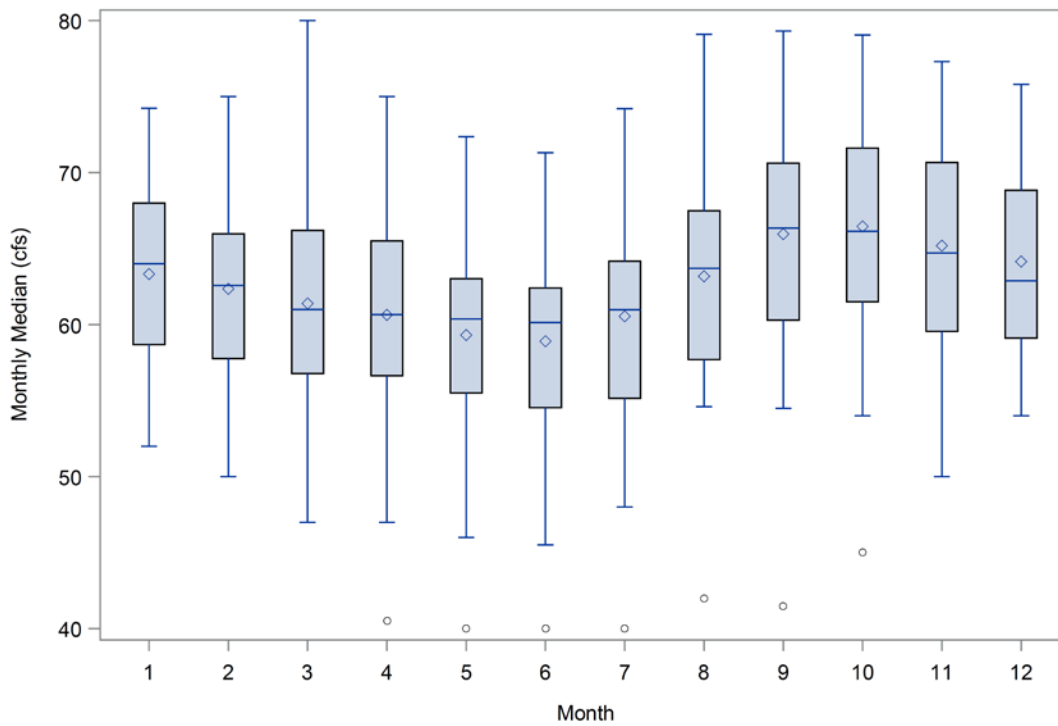


Figure 3-5. Seasonal (monthly) distribution of flows based on the long term record.

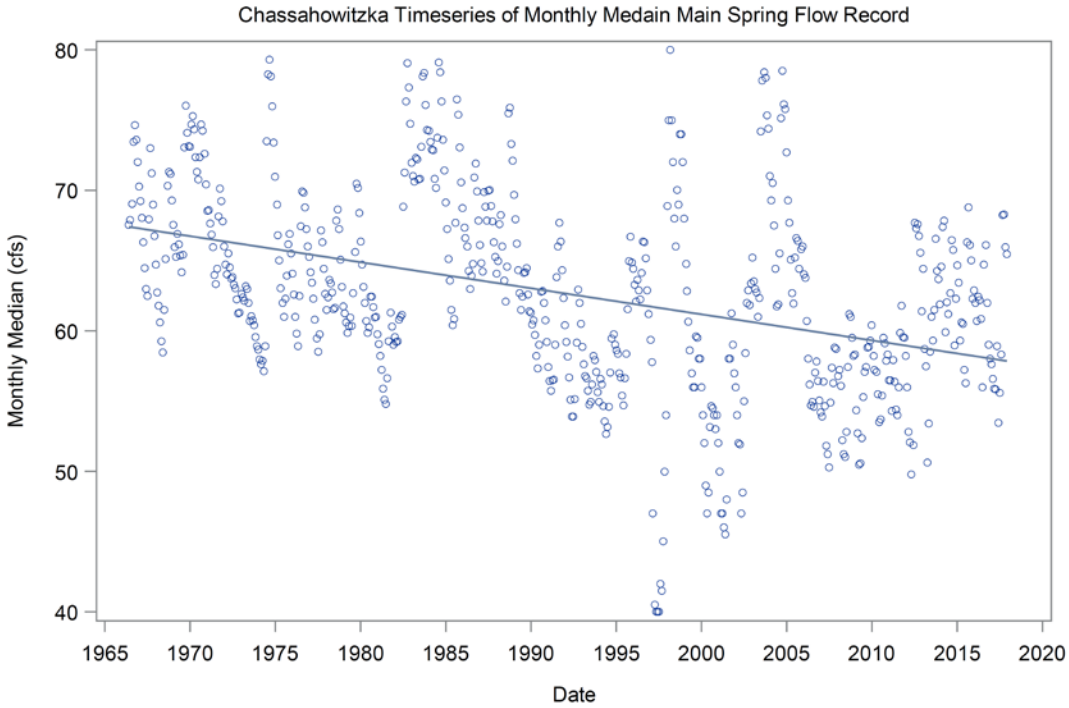


Figure 3-6. Timeseries of monthly median long-term Chassahowitzka flow record with trend line depicting the decreasing trend in flows over time.

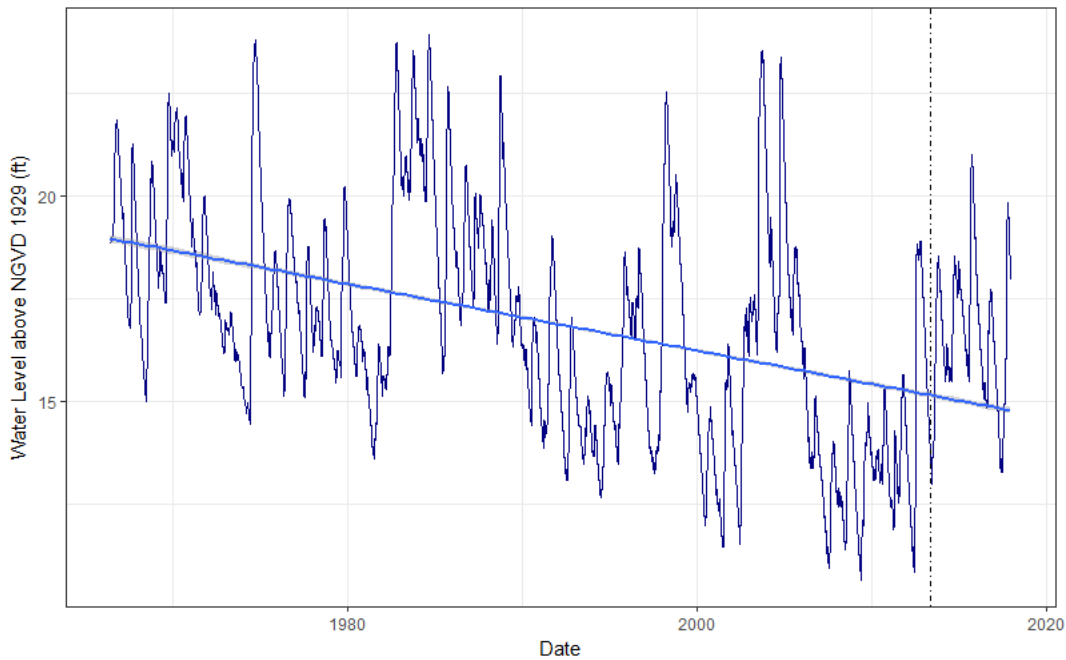


Figure 3-7. Water levels in Weeki Wachee Well from 16,268 daily values. Dashed vertical line is at start of new well location on 2013-04-30, which has been adjusted by adding 0.3 feet to match with old well location following regression adjustment by the USGS (Kevin Grimsley, personal communication, 2018).

3.2 SPRING VENTS

The Springs data included quarterly sampling events beginning in the early- to mid-1990's collected at or near low tide to minimize tidal mixing with seawater. Data come from seven spring vents shown in Figure 3-8

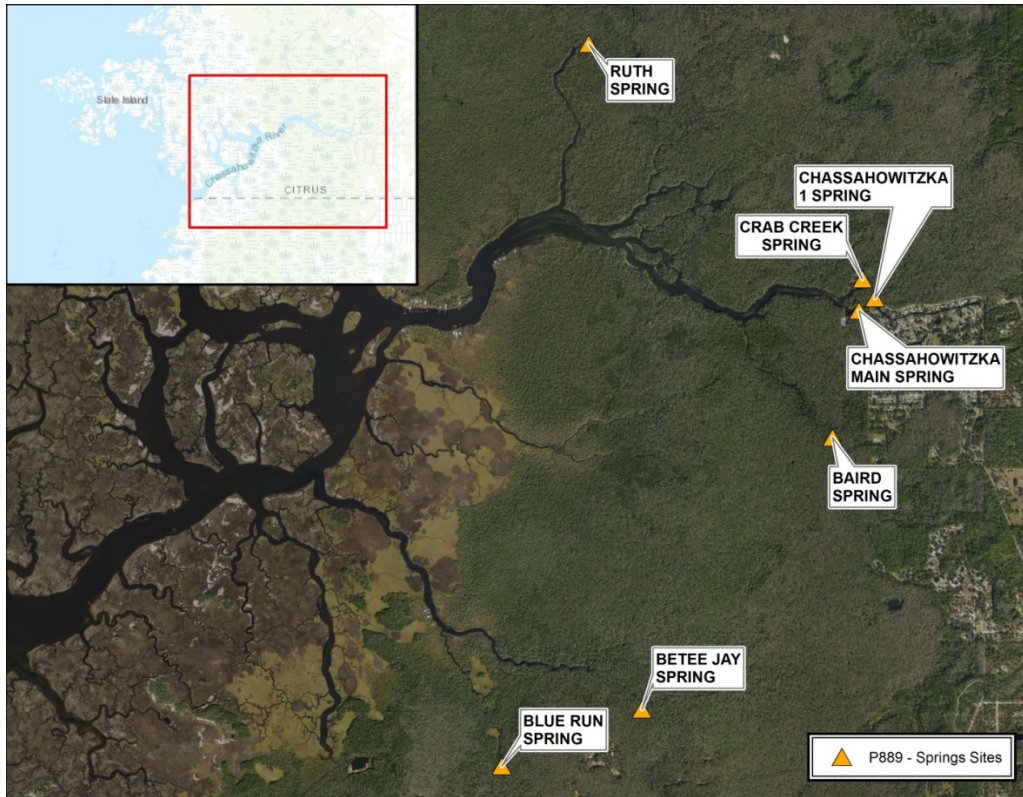


Figure 3-8. Location of sampling sites for the Springs Vent sampling program (District project number P889).

3.2.1 Exploratory Data Analysis

To evaluate the utility of these data to support reevaluation of the Chassahowitzka River minimum flow, linear regression analysis was conducted to test the hypothesis that concentrations of water quality constituents emanating from the spring vents were related to spring discharge. Because spring discharge is estimated as a function of Weeki Wachee well for the majority of the time series, and because, these spring vents are located in several areas without long term discharge records, the long-term flow record developed for reevaluation of the Chassahowitzka River minimum flows was used as the estimate of spring discharge for all spring sites. The water quality constituents evaluated are listed in Table 3-2 and the same-day flow and the 3-day lagged average flow were considered as predictor variables. Outliers indicated by robust regression and data points with qualifiers indicating unreliable data were removed from the analyses. The District developed acceptance criteria for using regression analysis in support of minimum flows evaluations for the Chassahowitzka River (Heyl et al. 2012). The acceptance criteria state that regressions must include a) a minimum 10 observations per variable, b) a plausible trend in the response as a function of flow, c) no significant serial correlation and d) an adjusted coefficient of determination (R^2) of at least 0.3.

Table 3-2. List of water quality constituents evaluated for linear relationships with flow.

Alkalinity (Dissolved)	Depth (Total)	Nitrogen- Total Kjeldahl (Dissolved)	Stage (Total)
Alkalinity (Total)	Depth, bottom (Total)	Nitrogen- Total Kjeldahl (Total)	Strontium (Dissolved)
Ammonia (N) (Dissolved)	Dissolved Oxygen (Total)	Nitrogen15/Nitrogen14 Isotope Ratio	Strontium (Total)
Ammonia (N) (Total)	Eh, Field (hydrogen electrode)	Orthophosphate (P) (Dissolved)	Sulfate (Dissolved)
Bicarbonate (Total)	Fluoride (Dissolved)	Orthophosphate (P) (Total)	Sulfate (Total)
Biological Oxygen Demand (Total)	Fluoride (Total)	Phaeophytin (Total)	Temperature (Total)
Boron (Dissolved)	Hardness (Total)	Phosphorus (Dissolved)	Total depth at monitored location
Boron (Total)	Iron (Dissolved)	Phosphorus- (Total)	Transparency (Total)
Cadmium (Total)	Iron (Total)	Phosphorus – Soluble Reactive	Turbidity (Total)
Calcium (Dissolved)	Lead (Total)	Potassium (Dissolved)	Zinc (Dissolved)
Calcium (Total)	Light, Attenuation Coefficient	Potassium (Total)	Zinc (Total)
Carbon- Total Organic (Total)	Magnesium (Dissolved)	Purge Volume (Total)	pH (Total)
Chloride (Dissolved)	Magnesium (Total)	Residues- Filterable (TDS) (Dissolved)	
Chloride (Total)	Manganese (Dissolved)	Residues- Nonfilterable (TSS) (Total)	
Chlorophyll (Total)	Manganese (Total)	Residues- Volatile (Total)	
Chlorophyll a (Total)	Molybdenum (Dissolved)	Salinity (Total)	
Chlorophyll b (Total)	Nitrate (N) (Dissolved)	Secchi-horizontal (Total)	
Chlorophyll c (Total)	Nitrate (N) (Total)	Secchi-vertical (Total)	
Cobalt (Dissolved)	Nitrite+Nitrate (N) (Dissolved)	Selenium (Dissolved)	
Coliform Fecal (Total)	Nitrite+Nitrate (N) (Total)	Selenium (Total)	
Coliform Total (Total)	Nitrite (N) (Dissolved)	Silica- Dissolved (Dissolved)	
Color (Dissolved)	Nitrite (N) (Total)	Silica- Dissolved (Total)	
Color (Total)	Nitrogen- Organic (Dissolved)	Sodium (Dissolved)	
Copper (Dissolved)	Nitrogen- Total (Dissolved)	Sodium (Total)	
Copper (Total)	Nitrogen- Total (Total)	Specific Conductance	

Those regressions that met the acceptance criteria are described in the paragraphs below. An example of the results for the Chassahowitzka 1 Spring site is provided in Figure 3-9, all displaying inverse relationships with flow (i.e. constituent concentrations decrease with increasing flows). The greatest number of significant results was observed in the Chassahowitzka 1 Spring (Table 3-3) and the Chassahowitzka Main Spring (Table 3-4) where constituents were regressed against either the daily or 3-day lag average flows.

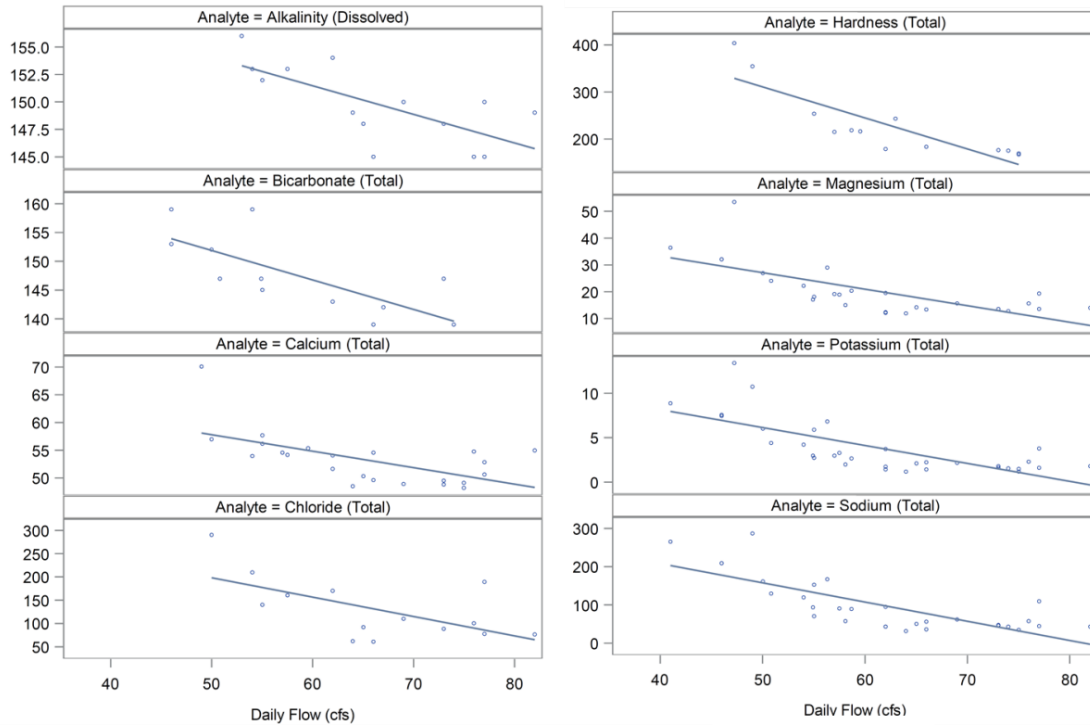


Figure 3-9. Regression relationships between a select group of water quality constituents of interest (all units are in milligrams per liter) and daily flows for Chassahowitzka 1 Spring.

While many of the components of TDS (i.e. bicarbonate, magnesium, and sodium) illustrated a decrease in concentration with increasing flows, there was no evidence that these trends would result in significant harm to the system. The fact that there were statistically significant relationships does not imply that there was an ecologically meaningful interpretation of this result that could aid in reevaluation of the minimum flows. TDS concentrations vary greatly across the spring group and chloride concentrations also widely range, indicating that water quality at the spring group is strongly influenced by the coastal transition zone, even at low tide (SWFWMD 2001).

Table 3-3. Significant regression results for Chassahowitzka 1 Spring data for regressions based on same-day flow (no asterisk) or 3-day lagged flow (asterisk).						
Parameter	Units	Intercept	Slope	DF	R Square	P Value
Alkalinity (Dissolved)	mg/L	165.80	-0.2383	11	0.45	0.0120
Bicarbonate (Total)	mg/L	177.49	-0.5121	10	0.55	0.0059
Calcium (Total)	mg/L	72.65	-0.2971	21	0.36	0.0024
*Chloride (Dissolved)	mg/L	920.63	-11.3559	113	0.36	0.0000
Chloride (Total)	mg/L	406.17	-4.1590	12	0.38	0.0185
Hardness (Total)	mg/L	640.88	-6.5992	11	0.73	0.0002
*Magnesium (Dissolved)	mg/L	69.78	-0.7545	102	0.34	0.0000
Magnesium (Total)	mg/L	57.93	-0.6160	25	0.49	0.0000
*Nitrite (N) (Dissolved)	mg/L	0.01	-0.0001	31	0.33	0.0005
*Potassium (Dissolved)	mg/L	19.31	-0.2372	102	0.34	0.0000
Potassium (Total)	mg/L	16.22	-0.2016	31	0.54	0.0000
*Residues- Filterable (TDS) (Dissolved)	mg/L	1,830.93	-20.4523	110	0.36	0.0000
*Sodium (Dissolved)	mg/L	518.46	-6.3935	102	0.36	0.0000
Sodium (Total)	mg/L	408.95	-5.0233	29	0.61	0.0000
*Specific Conductance (Total)	uS/cm	3,766.01	-42.9613	186	0.37	0.0000
*Sulfate (Dissolved)	mg/L	133.70	-1.5659	113	0.36	0.0000
Sulfate (Total)	mg/L	63.68	-0.5947	12	0.40	0.0149

Table 3-4. Significant regression results for Chassahowitzka Main Spring data for regressions based on same-day flow (no asterisk) or 3-day lagged flow (asterisk).						
Parameter	Units	Intercept	Slope	DF	R Square	P Value
Alkalinity (Dissolved)	mg/L	166.45	-0.2679	12	0.38	0.0183
Calcium (Total)	mg/L	123.52	-0.9669	22	0.56	0.0000
*Chloride (Dissolved)	mg/L	3,047.87	-39.3967	130	0.35	0.0000
Chloride (Total)	mg/L	1,778.16	-21.5393	12	0.68	0.0003
Hardness (Total)	mg/L	1,246.03	-15.3002	20	0.48	0.0003
Magnesium (Dissolved)	mg/L	199.33	-2.3823	103	0.31	0.0000
Magnesium (Total)	mg/L	138.73	-1.6791	39	0.56	0.0000
*Nitrite (N) (Dissolved)	mg/L	0.01	-0.0001	38	0.31	0.0002
*Phosphorus (Dissolved)	mg/L	-0.01	0.0004	11	0.32	0.0431
*Potassium (Dissolved)	mg/L	67.92	-0.8697	103	0.37	0.0000
Potassium (Total)	mg/L	48.48	-0.6377	44	0.57	0.0000
Residues- Filterable (TDS) (Dissolved)	mg/L	5,350.67	-65.2569	118	0.30	0.0000
*Sodium (Dissolved)	mg/L	1,822.54	-23.4989	104	0.39	0.0000
Sodium (Total)	mg/L	1,132.51	-14.6894	41	0.66	0.0000
*Specific Conductance (Total)	uS/cm	11,895.44	-149.2152	186	0.40	0.0000
Strontium (Total)	ug/L	1,376.70	-16.9961	19	0.36	0.0039
*Sulfate (Dissolved)	mg/L	1,317.95	-16.2433	19	0.34	0.0051
Sulfate (Total)	mg/L	253.80	-3.0051	12	0.68	0.0003

In addition to significant relationships at Chassahowitzka 1 Spring and Chassahowitzka Main Spring, some of the same ions also had significant inverse relationships with flow at Betee Jay Spring (Table 3-5) including total dissolved solids (TDS). Total dissolved solids is a measure of chemical constituents dissolved in the groundwater and in west-central Florida, TDS is mostly influenced by the concentrations of the major ions: calcium, bicarbonate, magnesium, sodium, sulfate and chloride and can be used to estimate the relative residence time of ground water in the aquifer which typically increases as the length of groundwater flow paths increase. In coastal areas, TDS is often used to determine the influence of salt water on water quality (SWFWMD 2001).

Table 3-5. Significant regression results for Betee Jay Spring data						
Parameter	Units	Intercept	Slope	DF	R Square	P Value
Chloride (Dissolved)	mg/L	603.15	-7.5417	110	0.30	0.0000
Hardness (Total)	mg/L	501.73	-4.3677	11	0.57	0.0030
Magnesium (Total)	mg/L	44.59	-0.4752	20	0.51	0.0002
Nitrate (N) (Total)	mg/L	0.49	-0.0036	14	0.47	0.0034
Potassium (Total)	mg/L	12.54	-0.1744	23	0.54	0.0000
Residues- Filterable (TDS) (Dissolved)	mg/L	1,284.83	-13.4910	108	0.32	0.0000
Sodium (Dissolved)	mg/L	340.00	-4.2019	92	0.31	0.0000
Sodium (Total)	mg/L	303.22	-4.1284	22	0.56	0.0000
Sulfate (Dissolved)	mg/L	95.62	-1.1265	111	0.33	0.0000

Nitrogen enrichment in the Chassahowitzka springs group is an ongoing concern due to the presence of algal mats (filamentous and epiphytic algae) which were linked to increases in nitrogen concentrations. The DEP has adopted a Total Maximum Daily Load (TMDL) for nitrate in the springs and for total nitrogen (TN) in the upper river (Dodson et al. 2014). We reevaluated these relationships and found no significant relationships with any organic or total forms of nitrogen in the Springs dataset. In some cases, regressions with inorganic forms of nitrogen (nitrate, nitrite, and ammonia) resulted in significant relationships to flows but the results were tenuous with low numbers of observations and less than 50% of the total variability explained by the model. The nitrite results are considered especially tenuous since the concentrations tend to be very small and near the detection limits. In addition, the results of the nitrogen regressions were conflicting with respect to the direction of the relationship with flow. For example, the strongest nutrient relationship observed in the Chassahowitzka Spring group in this study was for nitrite (total) at Blue Run Spring with an R^2 value of 66% and $p < 0.001$ (Table 3-6) but the results suggest a small magnitude positive relationship; increasing concentrations with increasing flow. However, the results of the same analysis for Nitrite dissolved in Blue Run and Ruth Springs suggest an inverse relationship. The only other significant positive relationship observed for a form of nitrogen was for nitrate at Crab Creek Spring (Table 3-6). The nitrite results should be taken with caution since nitrites typically are very close to their detection limits.

Spring Name	Parameter	Units	Intercept	Slope	DF	R Square	P Value
Baird Spring	Boron (Dissolved)	ug/L	1,659.67	-11.8581	17	0.36	0.0062
Blue Run Spring	Magnesium (Total)	mg/L	347.55	-2.8716	14	0.33	0.0188
Blue Run Spring	Nitrite (N) (Dissolved)	mg/L	0.02	-0.0002	19	0.36	0.0041
Blue Run Spring	Nitrite (N) (Total)	mg/L	-0.01	0.0003	13	0.66	0.0002
*Ruth Spring	Nitrite (N) (Dissolved)	mg/L	0.01	-0.0001	23	0.31	0.0041
Crab Creek Spring	Nitrate (N) (Dissolved)	mg/L	0.24	0.0043	14	0.41	0.0072
Crab Creek Spring	Nitrite (N) (Dissolved)	mg/L	0.01	-0.0001	24	0.32	0.0026

In a technical memorandum by Heyl (2012), included as an appendix to the District's original minimum flow report for the Chassahowitzka River System (Heyl et al. 2012), the relationships between nitrite+nitrate (NO₂₃) nitrogen and flows in spring systems of the Homosassa and Chassahowitzka rivers were examined. The memorandum indicated that flows in the Chassahowitzka have been declining since the 1960s, and that since NO₂₃ monitoring began in 1993, concentrations have been cyclic but with a slight overall positive trend. Since NO₂₃ concentrations have increased over time, the memorandum evaluated whether changes in NO₂₃ were the result of change in flow or time. For the Chassahowitzka data, Heyl noted that once the time effect was accounted for, the relationship with flow was not significant. The trend over time was attributed to inland management practices that increased NO₂₃ loads to the springshed.

In an analysis of the relationships of nitrate to flows in springs in the Suwannee River Water Management District (Upchurch et al. 2008), the objective was to address the question "can management of spring flows be utilized to mitigate nitrate discharging from the springs?". The analytes reported upon included spring discharge, and nitrite+nitrate using data obtained from all of the first, and most of the second, magnitude springs within the Suwannee River Water Management District (n=52). The report concluded that minimum flows cannot be utilized to control nitrate discharging from the springs by promoting high discharge. Data from 50% of the springs showed that nitrate concentrations increased as discharge from the springs increased. Forty-five percent of the remaining springs showed no correlation between discharge and nitrate, and only 5% (2 springs with poor data) had relationships where high discharge was related to lower nitrate concentrations.

3.2.2 Conceptual Model

Despite the existence of many significant water quality relationships with flow, there was no evidence that a conceptual model could be developed that provided a plausible connection between these relationships and the establishment of a minimum flow for the Chassahowitzka River. The relationship between major ions and flow would only be problematic if they were considered contaminants. Instead, many of these constituents are trace nutrients that are valuable for biological growth. In addition, even if the concentrations decrease with flow, the total mass of the constituent may be increasing and that total mass may be a more important driver of response of biota in the receiving water bodies. In summary, there was no evidence

that the relationship of any of these constituents with flow would result in significant harm to the receiving waters of the Chassahowitzka River. Therefore, the investigation of relationship between these water quality constituents and flow for the Springs dataset was not pursued further. Plots for all relationships examined for the Springs data are provided in Appendix C.

3.3 RIVER MAINSTEM

Data from the river mainstem includes water quality samples collected from various monitoring networks from just below the headsprings to the mouth of the river. The monitoring programs in the mainstem of the Chassahowitzka River were described in Section 2.1. The following sections describe the exploratory analysis and implementation of the statistical analysis plan for those data.

3.3.1 Exploratory Data Analysis

Linear regression analysis was conducted on data collected in the mainstem of the river in a similar manner to that described above for the Springs resource. The Project Coast monitoring network data (P-529) is the most data rich of the sampling programs. After application of the District acceptance criteria, the only significant constituent related to flow was salinity which was significantly inversely related to flow for 9 of the 10 stations in the network (no results for station 1 met acceptance criteria). This is confirmatory evidence that flows affect water quality in the mainstem of the river. The hydrodynamic model developed for the Chassahowitzka River is considered the best available tool for evaluating the effects of flows on salinity in the mainstem of the river and therefore these relationships were not further pursued. The Coastal Rivers network (P-108), has a reduced sampling frequency relative to P-529 (most constituents only have 25 observations). Major ions including calcium, magnesium, sodium and potassium were significantly related to flows along with total organic carbon. All major ions were inversely related to flows, consistent with the findings for the Springs data, while total organic carbon was positively related to flows. For the UF transect data, only salinity, specific conductivity and alkalinity were significantly linearly related to flows. The hydrodynamic model developed for the Chassahowitzka as part of a separate work effort is considered the best available tool for evaluating the effects of flows on salinity and therefore salinity was not considered further for this analysis within the mainstem of the river. In general, the same inference described for these results in the Springs data can be applied to the majority of the results for the mainstem of the river. That is, there is no evidence that these constituents (other than salinity) would result in significant harm to the system. However, nonlinear patterns in the relationship between flows and chlorophyll were observed for several of the UF transect sites in the upper portion of the mainstem of the river. Given the ecological significance of chlorophyll, these relationships had the greatest potential to serve as valuable water quality indicators to support the reevaluation of minimum flows as described in detail in the following paragraphs. Appendix D details the results of this exploratory analysis with plots against flow for all water quality constituents and details of the statistical output.

Chlorophyll is a green pigment found in all plants that is responsible for the absorption of light, the energy for photosynthesis. In general, the greater the measured chlorophyll concentration,

the greater the phytoplankton abundance. Phytoplankton are microalgae found in the water column and form the basis of the estuarine food web. While healthy phytoplankton populations are essential for a healthy estuary, an excess in phytoplankton can have negative impacts. For example, extremely high phytoplankton abundance can lead to an algae bloom, turning water green and preventing sunlight from reaching submerged aquatic vegetation. Factors that control the abundance and distribution of phytoplankton in estuaries are very complex. Several factors can impact phytoplankton populations, including nutrient and carbon availability, solar radiation, predation, and discharge velocity and residence time.

The findings with respect to chlorophyll were of particular interest since it appeared that the effects were somewhat nonlinear at the lowest flows for some of the transects in the upper portion of the river. The UF transect data collected between 1998 and 2011 were deemed the best available information from which to evaluate the effects of flows on chlorophyll distributions in the mainstem of the river. The sampling design is spatially intensive with 20 transect locations within 9 kilometers of the river (Figure 3-10) with all transects sampled on the same date for each event. At each of the first 15 transect locations, three samples were collected along a lateral cross-section of the river while at the five most downstream locations, a single water quality sample was collected (Frazer et al. 2001).

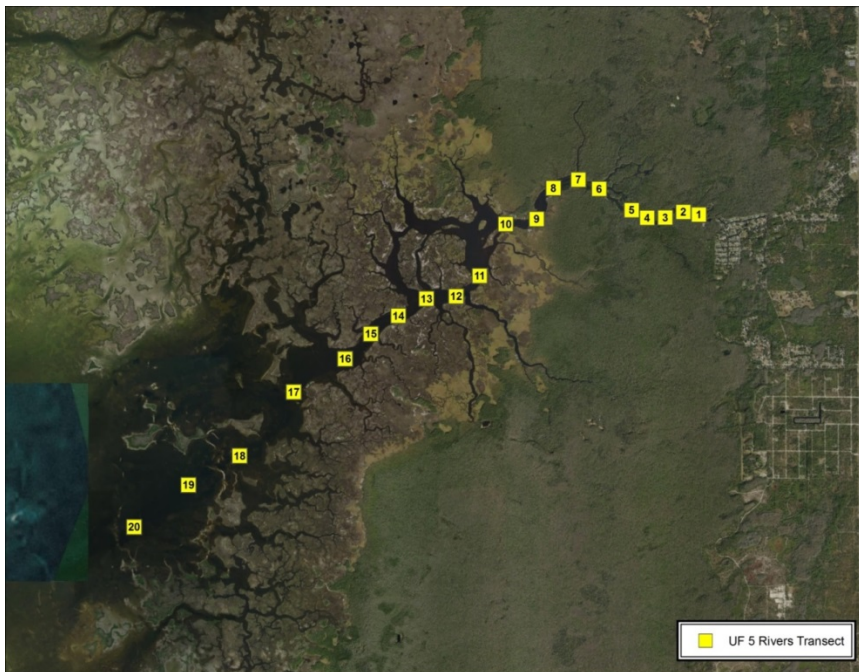


Figure 3-10. River kilometer and transect numbering system for the Chassahowitzka River.

The three samples at each site are not exactly replicates in that they were collected at different lateral positions across the river at the site location to correspond with measurements of macrophyte and other biological measurements across the river. Samples were collected quarterly between 1998 and 2011 with a data gap between 2001 and 2003. Typically, samples were collected in February (Q1), May (Q2), August (Q3), and November (Q4).

There are three major types of chlorophyll pigments, chlorophyll a, b, and c. Chlorophyll a is the pigment in greatest concentrations. Chlorophyll b and c are known as accessory pigments and while they are important to the light harvesting apparatus of plant cells, they are typically found in much lower concentrations in the water column, often at or below laboratory detection limits. Pheophytin is brownish or grey-green compound formed by the degradation of phytoplankton that is also found in the water column. When reporting chlorophyll, most researchers report chlorophyll a, either corrected or uncorrected for pheophytin. The UF data reported uncorrected chlorophyll a concentration for the entire time series of data but only reported chlorophyll corrected after 2005. While pheophytin corrected chlorophyll a is the preferred analyte, using uncorrected chlorophyll a should not significantly change the outcome of chlorophyll-flow relationships. For the purpose of this report, the term chlorophyll implies chlorophyll a uncorrected for pheophytin.

Chlorophyll concentrations were mostly under 10 ug/l in the mainstem of the river with a median value of 3.5 ug/l and a tendency for the highest concentrations between river kilometer 3.8 and 7.4 (Figure 3-11). However, the plots do suggest that the mainstem of the river was susceptible to chlorophyll a concentrations that were in many cases more than three times the median value as seen in the broken y axis plot of Figure 3-11 to highlight the spatial distribution of the majority of the data. Data from the active water quality sampling programs (Figure 3-12) confirm the general spatial distribution of chlorophyll concentrations though the sampling is less spatially intensive. The temporal distribution (Figure 3-13) suggests generally higher concentrations in Quarter 2 (May) and Quarter 3 (August) though concentrations higher than 10 ug/l were found in all quarters. Extreme chlorophyll values (>50ug/L) were also observed though it is possible that these samples were contaminated by other plant material not associated with phytoplankton.

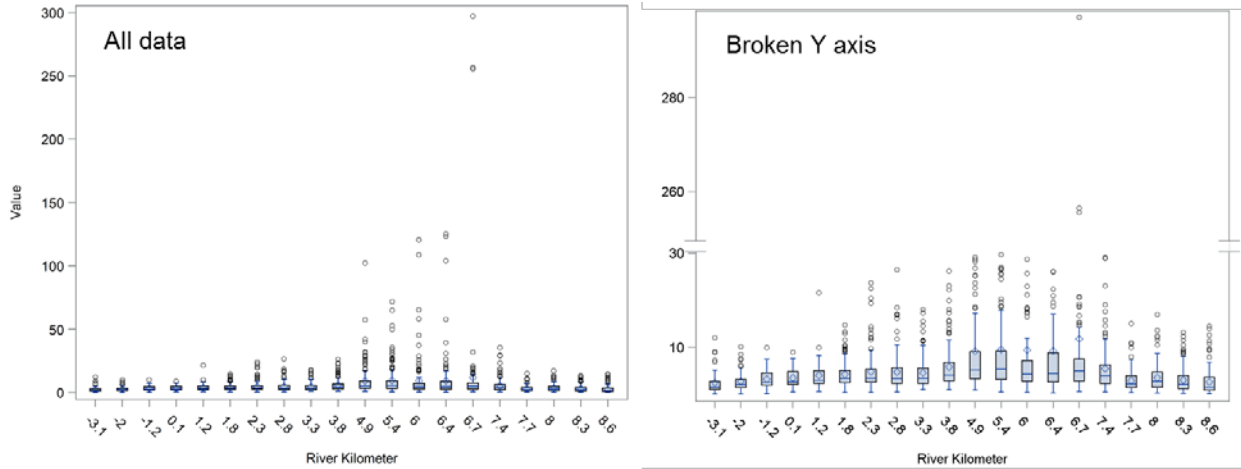


Figure 3-11. Distribution of chlorophyll concentrations from the University of Florida transect data collection effort between 1998 and 2011. All data (left) and broken Y axis (right) to show distribution of data by river kilometer. River kilometer (x axis) is displayed as a discrete value to distribute the box plots more evenly.

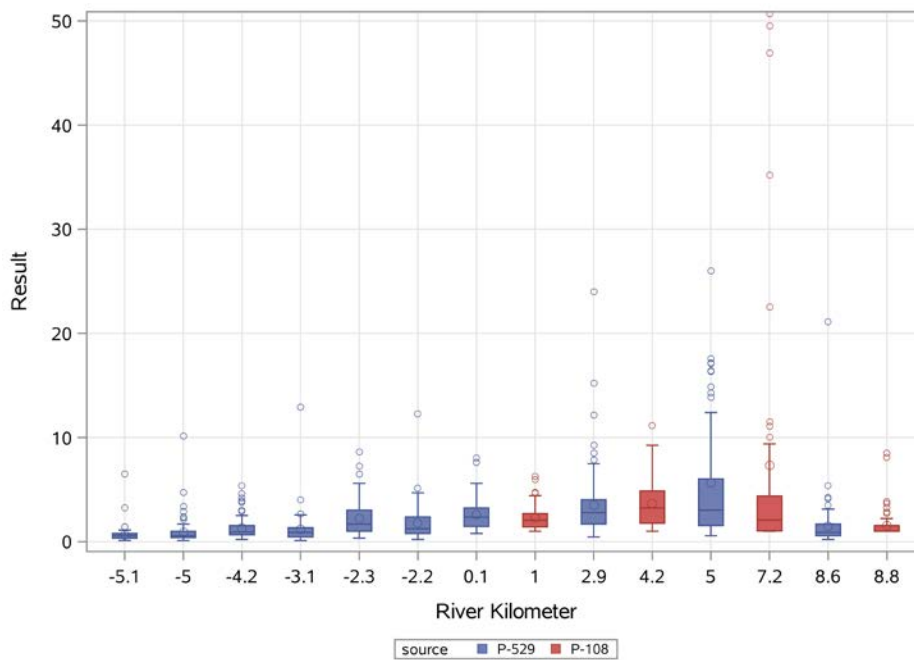


Figure 3-12. Chlorophyll distribution at fixed locations in the Chassahowitzka River from the active sampling programs in the Chassahowitzka River. River kilometer (x axis) is displayed as a discrete value to space out the box plots.

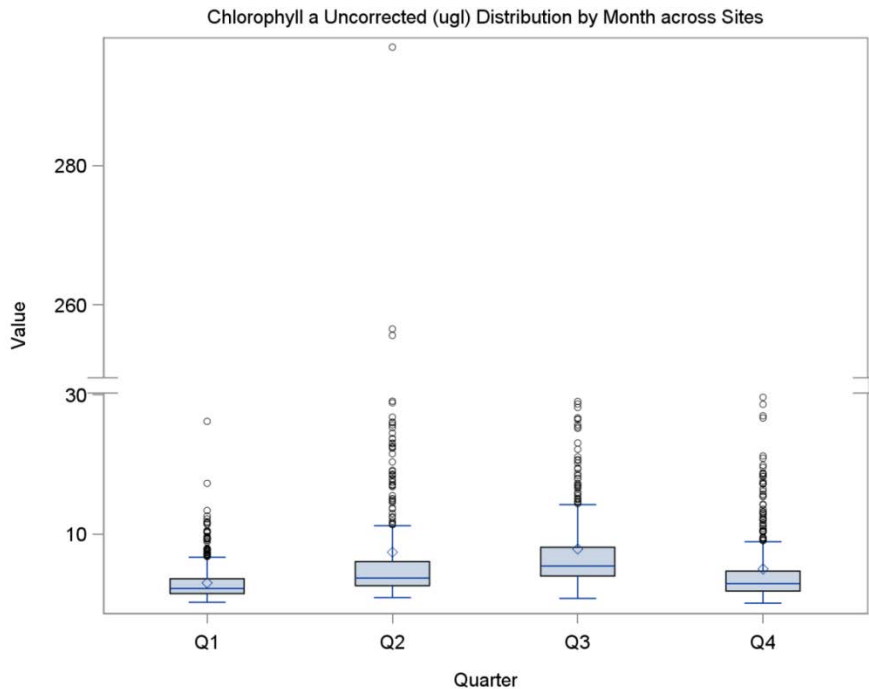


Figure 3-13. Temporal distribution of chlorophyll concentrations based on quarterly sampling from University of Florida transect study in the Chassahowitzka River.

3.3.2 Conceptual Model

Evaluating the effects of flows on water quality in the mainstem of the Chassahowitzka River system necessitated development of a conceptual model for characterizing relationships between flows and water quality. Following development of the conceptual model, the process was enhanced by formulation and use of a statistical model that addressed the conceptual model by testing the hypothesis that the distribution of chlorophyll concentrations in the mainstem of the river was related to flows from the Springs. In particular, a chlorophyll a criterion established by the State for a lower portion of the river (WBID1361:62.303.530 F.A.C.) was chosen to be indicative of a threshold value that, if exceeded, could be associated with the probability of an increased adverse impact. The state water quality standard for chlorophyll in the Chassahowitzka River estuary (WBID 1361:Figure 3-14) is an annual geometric mean (AGM) of 3.9 ug/l (FDEP 2013). The upstream WBID (1348D) does not have a chlorophyll standard. Instead, WBID 1348D has a total nitrogen TMDL, and the springs have a nitrate TMDL. The Chassahowitzka TMDL was based on evidence of excessive filamentous algae growth on the spring and river bottom and not related to phytoplankton abundance. Ironically, the WBID boundary between 1361 and the upstream 1348D WBID bisects the peak spatial distribution of chlorophyll in the river. For this reason, the 3.9 ug/l value was used for the entire river as an indicator of the potential of an adverse condition. However, it should be noted that exceedances in this regard are not directly applicable to inference regarding the declaration of the river as “Impaired” according to state laws.

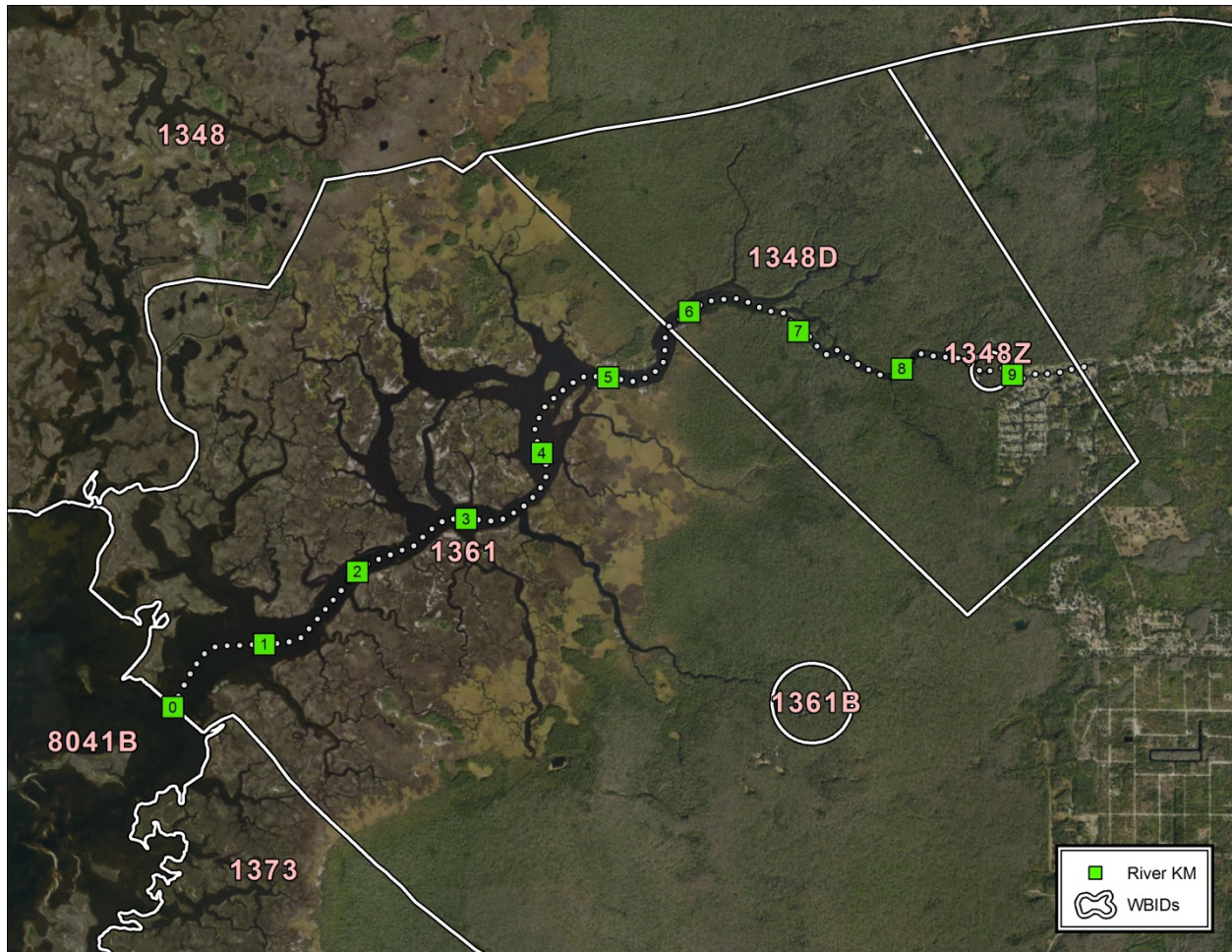


Figure 3-14. Map of Chassahowitzka identifying waterbody identifiers (WBIDs) of relevance within the systems.

While the chlorophyll water quality standard does not apply in a regulatory sense to the uppermost portion of the mainstem of the river (WBID 1348D), we used that value for the entire portion of the river above Rkm 4.9 to represent an indicator that has relevance to an adverse effect for the following reasons. Excessive phytoplankton concentrations, as measured by chlorophyll a, are known to: a) reduce water clarity and limit sunlight available to submerged aquatic vegetation such as the native macrophytes that are considered an indicator of good water quality conditions in the mainstem of the river; b) increase the production of organic material that, upon deposition, can reduce dissolved oxygen concentrations in the river bottom; and c) change the ratio of water column to benthic primary production that is thought to be an important characteristic of historically oligotrophic, spring-fed tidal river systems in Florida (Burghart et al. 2013).

The percent of (3.9 ug/l) threshold exceedances for each sampling location (denoted by its river kilometer) are presented by quarter in Figure 3-15. The plots suggest that the exceedance frequencies change as a function of season and location with increased exceedances in Q2 (May) and an increasing exceedance rate in downstream waters during Q3 (August) relative to Q2. In the winter season, phytoplankton (and therefore chlorophyll concentrations) become limited by photoperiod and temperature and are lower overall.

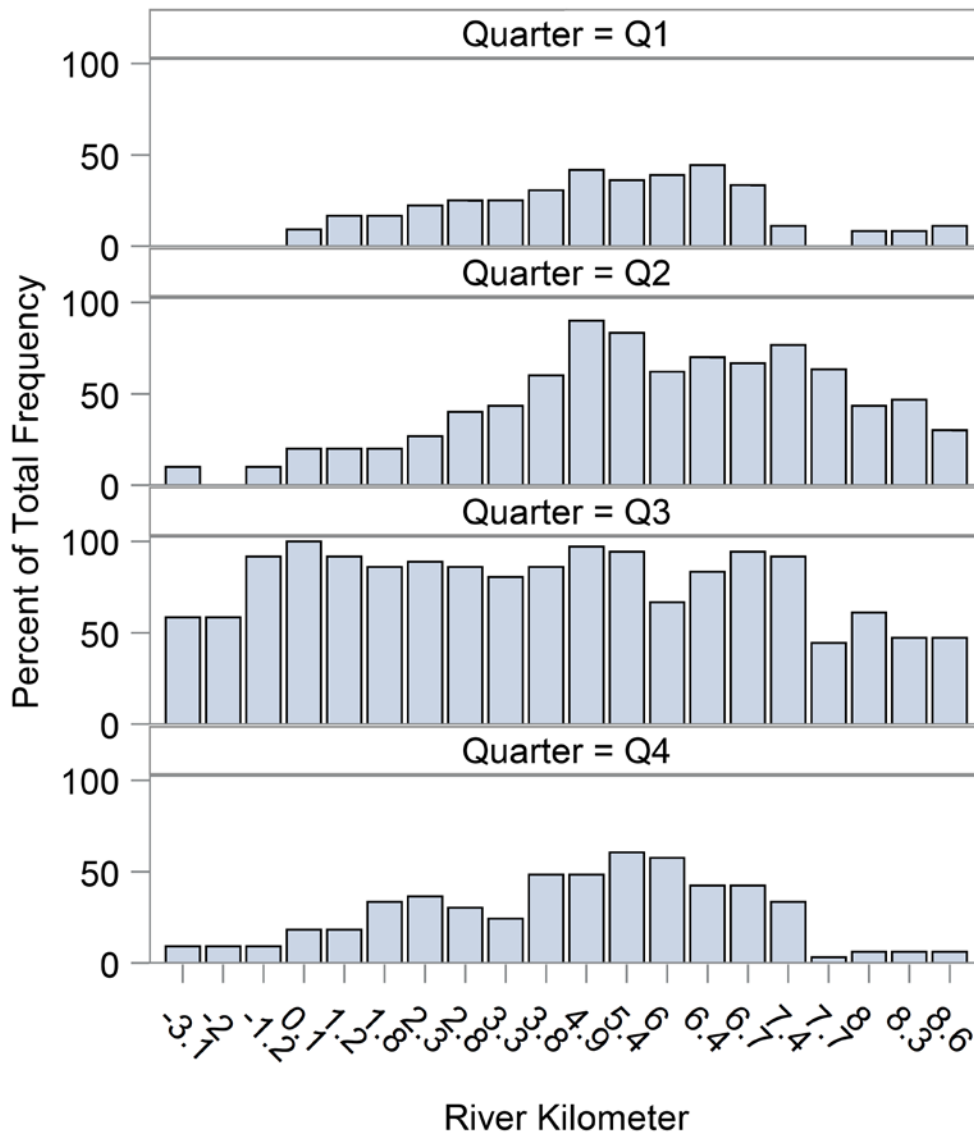


Figure 3-15. Empirical exceedance frequency by station location and by quarter. River kilometer increases towards the headsprings.

Based on the information described above, an analytical pathway was specified to evaluate the effects of flow on the probability of exceeding the state standard for chlorophyll a of 3.9 ug/l. As described in Section 2, the pathway includes:

- the development of a conceptual model;
- development of a hypothesis;
- an analytical approach;
- application of the analytical approach; and
- application of the results to evaluate the effects of flow reductions on the response of interest.

The final bullet point is vital with respect to the reevaluation as it requires that the modeling approach be amenable to conducting a series of simulated flow reduction scenarios. Thereby, the data used in the model must be available for a long term daily timeseries to conduct the flow reduction evaluations.

A conceptual model is presented in Figure 3-16 that illustrates the proposed relationship between spring flows, season and the distribution of chlorophyll in Chassahowitzka River. The model considers the effects of spring flow along with season as principal effects on the chlorophyll distribution, and that the effect of flow and season is location dependent. That is, the effect of flow differs depending on the location in the river and season. The plot of the 3-dimensional locally weighted average (uncorrected) chlorophyll concentrations as estimated using locally weighted scatter plot smoothing (LOESS) is presented in (Figure 3-17). The shape of the plot confirms the complex relationship between location and flow with peak average chlorophyll concentrations below the median of 62 cfs in the most upstream locations of the system. In particular, at the most upstream locations, the lines of increasing flows indicate that chlorophyll peaks around 47 cfs and slowly declines at higher flows.

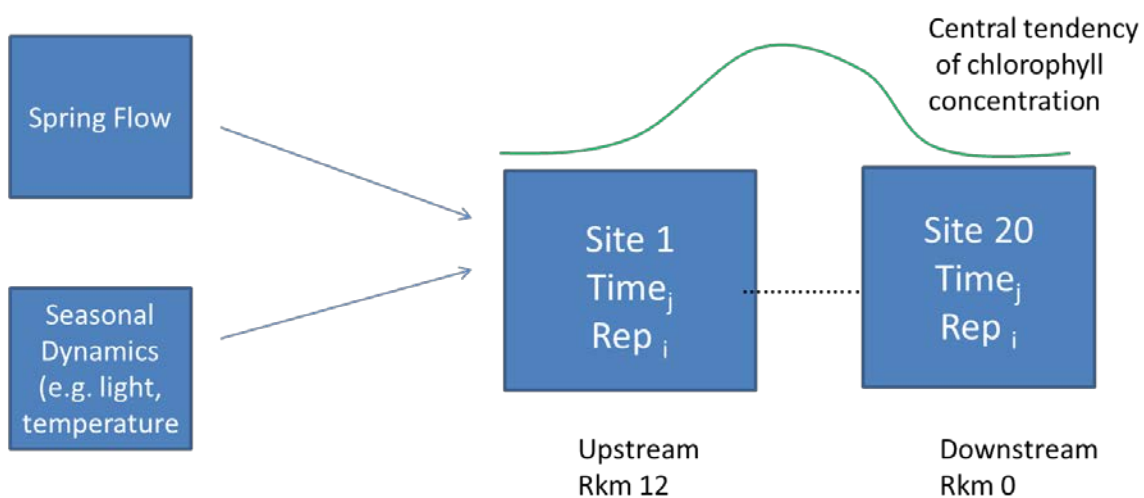


Figure 3-16. Conceptual model of the effects of spring flow and seasonal dynamics on chlorophyll concentrations in the Chassahowitzka River.

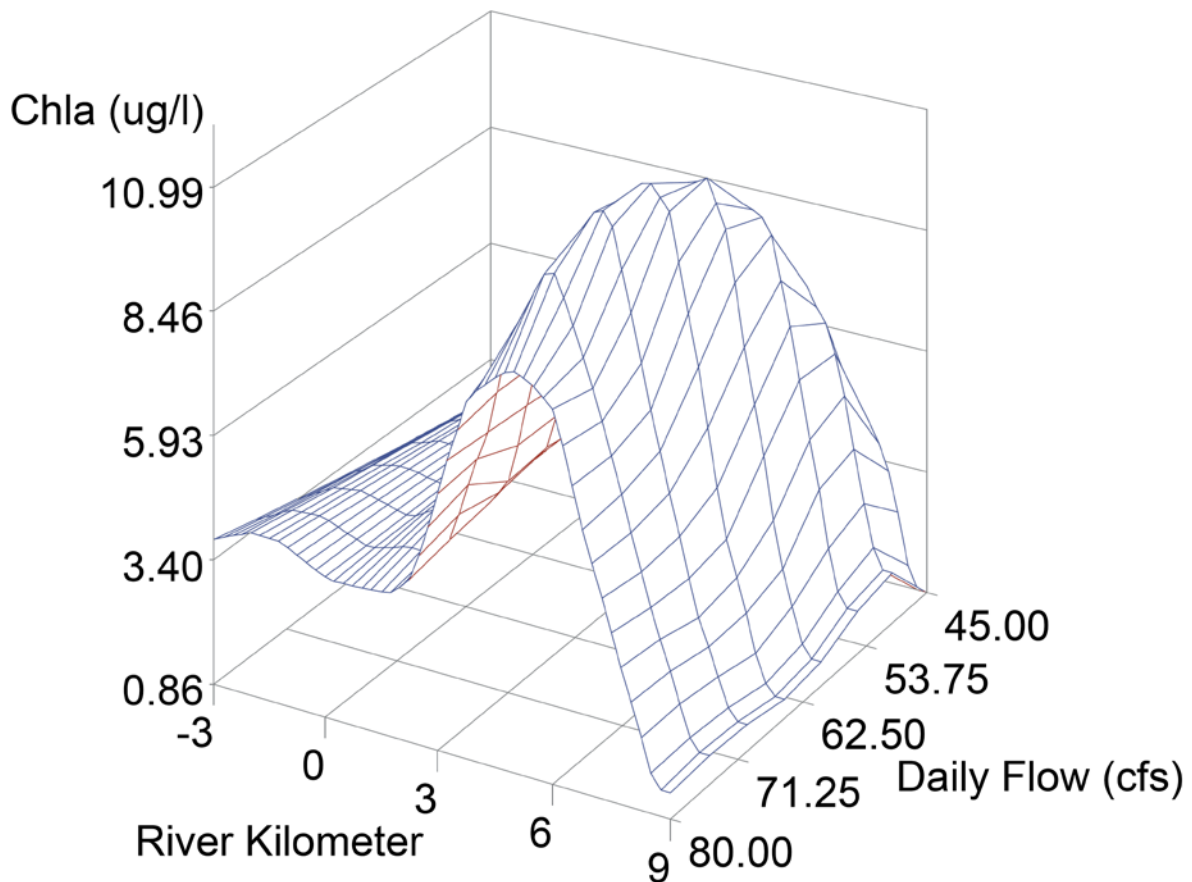


Figure 3-17. LOESS 3 dimensional smoothed curve of chlorophyll concentrations in the Chassahowitzka River as a function of location and spring flow (using the existing condition flow record) from the UF transect data. River kilometer values increase with increasing distance from the mouth.

The curve generally corresponds to the results of an analysis of “water age” by the District using the revised hydrodynamic model. Water age is defined as the estimated time it takes for a particle to move downstream of a particular location in the river. There is a rather dramatic increase in water age in the upper portion of the system as flows decrease. An example using the 3-day average flows (to smooth out the influence of tides) for three flow values (30, 50, and 80 cfs) is provided in Figure 3-18. The increase in water age in the upper portion of the system is especially apparent when flows drop below 50 cfs.

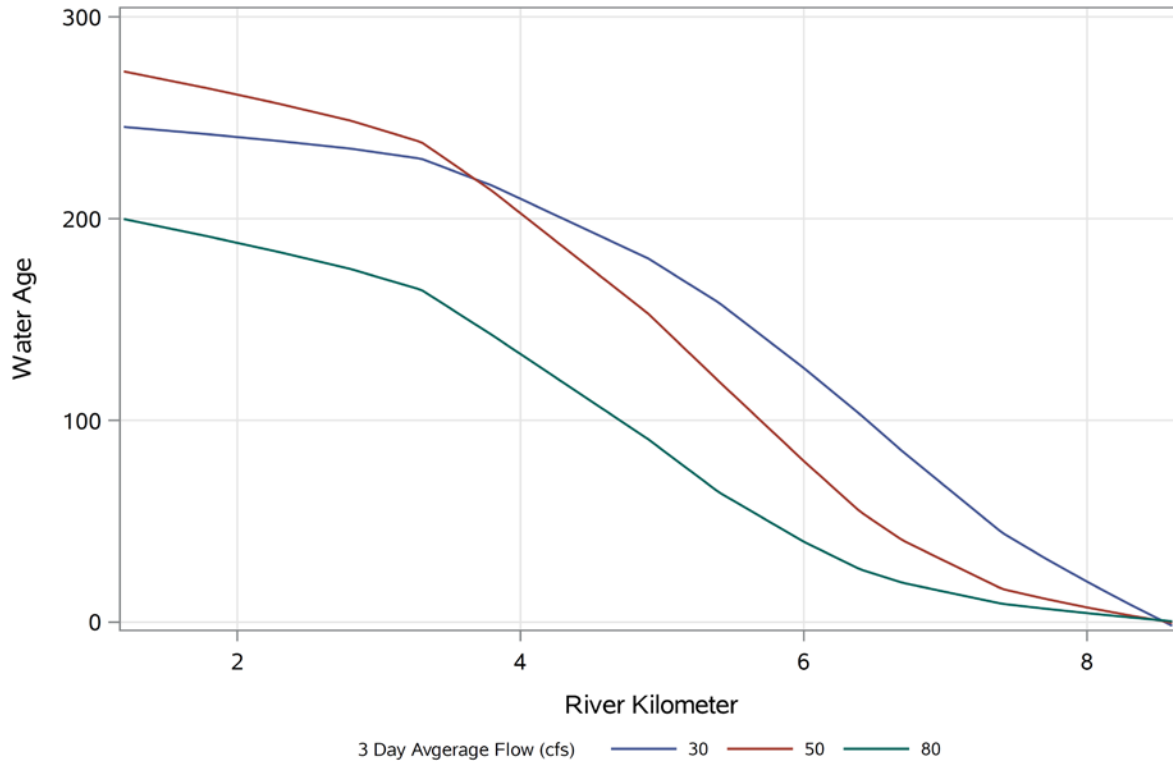


Figure 3-18. Water age (in hours) curves for three different 3-day average flows.

3.3.3 Analytical Approach

The conceptual model was then formulated as a statistical model to test the hypothesis that exceedances of the site-specific chlorophyll threshold established for the lower river were related to spring flow for the entire mainstem of the river. The general form of the model is expressed by the equation below as a generalized linear mixed effects model predicting the probability of an exceedance of the chlorophyll standard (a binomial response) as a function of flow and season (i.e. quarter) with interaction terms to allow for the effects of flows on chlorophyll to be location and seasonally dependent. The model is similar to a standard logistic regression model in that it is linear (additive) on the logit (log odds) scale but includes random effects components. Flow and river kilometer were treated as continuous variables in the model while quarter is treated as a categorical variable with Quarter 1 (i.e. Winter) being considered as the reference level. Because the UF data were sampled quarterly (February, May, August, and November), quarters were defined as Q1=Jan-Mar, Q2=Apr-Jun, Q3=Jul-Sep, and Q4=Oct-Dec. A quadratic term for the river kilometer effect was also initially included in an attempt to capture the parabolic curve observed in the empirical data as a function of location in the river. These are the “fixed” effects defining the deterministic component of the model (i.e. the predictive equation).

The “random effects” component of the model allows for specific properties of the sampling design to be incorporated into the analysis in order to appropriately estimate the standard errors associated with the statistical tests used to evaluate significance of the model. This results in

what is called “design-based inference” and is important in this analysis to account for the site-specific properties of the sampling locations within the river. Three parameterizations of the random effects component of the statistical model were considered:

Parameterization 1: Random Site Intercepts

Parameterization 2: Random Site and nested Rep within (Site) effect

Parameterization 3: Rep averaged with random site intercepts

The “rep” term refers to the fact that three samples are taken in close proximity to one another at a particular longitudinal location along the river. The equation for the model using Parameterization 1 is given below:

$$E(y) = \log\left(\frac{p_{(y=1)}}{1-p_{(y=1)}}\right) = \beta_0 + \beta_{0s} + \beta_1 * \text{flow} + \beta_2 * \text{rkm}_i + \beta_3 * \text{quarter}_k + \beta_4 * \text{rkm} * \text{flow} + \beta_5 * \text{quarter}_k * \text{flow} + \beta_6 * \text{Rkm}^2$$

Where:

$\text{logit}(p_{ijk})$ = probability of exceedence for each sample

S = Site specific properties of location at rkm_i

β_0 = Intercept

β_{0s} = random intercepts for site $N(0, \sigma_s^2)$

β_{1-6} = regression coefficients

The random intercepts for the site term is a “variance component” to allow for the fact that each sampled site in the river has a random but quantifiable difference from the overall effect. The benefit of adding the random effects is that it allows the model to capture a variance component associated with variability in sites when estimating the statistical significance of the fixed effects (Zuur et al 2009) and allows for inference at any location within the modeled portion of the system. The difference between Parameterization 1 and Parameterization 2 is an additional term to describe the correlation that exists between the three replicate samples that were taken at the same longitudinal point in the river (although at a different location laterally) on the same date. Parameterization 3 is similar to Parameterization 1 except that the three replicates were first averaged and then the average was used to determine if the value exceeded the site-specific chlorophyll threshold.

The statistical model was implemented using the GLIMMIX procedure in SAS (V9.4: SAS Institute, 2016) using the general principles for model fitting outlined by Zuur et al. (2009) and described as follows. The full fixed effects model was implemented first and the benefit of including the random effects was evaluated using Restricted Maximum Likelihood (REML) and the residual pseudo-likelihood as described in the SAS Stats User’s Guide for the GLIMMIX procedure (SAS Institute: STAT User’s Guide v14.1: 2016). Once the random effects were established, Maximum Likelihood (ML) methods were used to evaluate the benefit of the fixed effects model terms using the goodness of fit evaluated by changes in likelihood ratio and the

Akaike Information Criteria (AICC) statistics. Individual terms were dropped from the model if they did not contribute improvement to the model fit as evaluated based on a reduction in either the log likelihood or AICC. Once the fixed effects were established for the final model, the final model was run and parameter estimates reported using REML.

3.3.4 Analytical Results

The three candidate model parameterizations for the random effects were considered using the full model fixed effects. Because the random effects parameterization can change the fixed effects estimates, the fixed effects parameter estimates were evaluated for all models as well. Since interaction terms are present in the models this can alter the results of the significance tests of the main effects if the interaction results in a cross over effect. For example, in the models below, the main effect for flow is not statistically significant as a Type 3 test because the location effect is set to the mean and at the mean the effect crosses over (Table 3-7). However, the solutions table (Table 3-8) displays the statistical test results evaluated at the reference level for the categorical effects and therefore provides estimates of the significance at specific levels of the other variables and demonstrate that under specific conditions, the effects of flow are significant. Since the interaction terms were highly significant, the main effects were retained in the model. The inference from the results suggests that the effects of flow are dependent on location in the river and season.

The random intercepts term for site significantly improved the model fit over the fixed effect model based on the likelihood ratio test results (LRT under Fit Statistics: Table 3-7). The dispersion statistic is also used as a test of model goodness of fit. An over-dispersed model can lead to improper estimates of the standard errors and inflated Type I error while a dispersion parameter below 1 is generally conservative with respect to the statistical significance of the parameter estimates (Burnham, K. P. and D. R. Anderson. 2002).

Table 3-7. Results of Type 3 tests for fixed effects for the three mixed effects model parameterizations evaluated to predict chlorophyll exceedances in the Chassahowitzka River.			
	Parameterization 1 (P Value)	Parameterization 2 (P Value)	Parameterization 3 (P value)
Fixed Effects			
Flow	0.2161	0.3875	0.2892
Rkm	<.0001	<.0001	<.0001
Flow*Rkm	0.0007	0.0112	0.0055
Quarter	<.0001	<.0001	<.0001
Flow*Quarter	<.0001	<.0001	<.0001
Rkm ²	<.0001	<.0001	<.0001
Fit Statistics			
Random Effects : LRT	<0.001	<0.001	<0.001
Dispersion (Chisq / DF)	0.97	0.54	0.98

Table 3-8. Solutions table for fixed effects for the three mixed effects model parameterizations evaluated to predict chlorophyll exceedances in the Chassahowitzka River.						
	Parameterization 1		Parameterization 2		Parameterization 3	
	Estimate	P Value	Estimate	P Value	Estimate	P Value
Fixed Effects						
Intercept	-8.9634	<.0001	-10.1523	<.0001	-8.6462	0.0004
Flow	0.1179	<.0001	0.1329	<.0001	0.1102	0.0005
River Kilometer	0.958	<.0001	1.0693	<.0001	1.051	<.0001
Flow*River Kilometer	-0.00793	0.0007	-0.00866	0.0112	-0.0088	0.0055
Quarter 2	14.0614	<.0001	16.3239	<.0001	12.9666	<.0001
Quarter 3	9.2264	<.0001	10.5851	<.0001	9.6258	<.0001
Quarter 4	5.5209	<.0001	6.1723	0.0018	4.5266	0.0273
Quarter 1	0		0		0	
Flow*Quarter 2	-0.2159	<.0001	-0.2512	<.0001	-0.1958	<.0001
Flow*Quarter 3	-0.1043	<.0001	-0.1181	0.0003	-0.1035	0.0029
Flow*Quarter 4	-0.08302	<.0001	-0.09256	0.0036	-0.06457	0.0494
Flow*Quarter 1	0		0		0	
Rkm ²	-0.06124	<.0001	-0.07042	<.0001	-0.06435	<.0001

The area under the receiver operator curve (ROC: Hosmer and Lemeshow 2000) is another metric used to evaluate the model fit. The ROC curves plot the sensitivity (defined as correctly predicting an exceedance when one is observed in the empirical data) against 1-specificity (defined as correctly predicting a non- exceedance when a non-exceedance is observed in the empirical data). A ROC curve that is high into the upper left-hand corner of the plot is most preferred because it has both high sensitivity and high specificity. Parameterization 3 had the largest area under the ROC curve (0.83: Figure 3-19) which is considered excellent discrimination according to Hosmer and Lemeshow (2000). Based on the fact that the Parameterization 3 dispersion statistic is close to 1 and that parameterization had the highest ROC value, in addition to results of internal discussions with the project team, Parameterization 3, the “rep averaged” model, was considered the most appropriate representation of the system under study for evaluating the effects of flows on the probability of a chlorophyll exceedance.

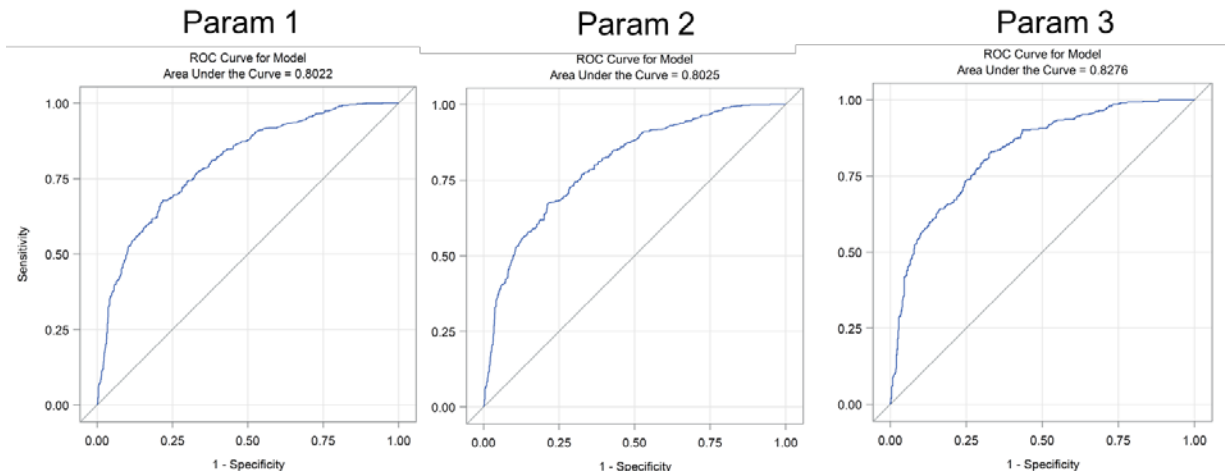


Figure 3-19. Receiver operator curves based on the fixed effects for the three generalized mixed effects models considered (note Param = Parameterization).

Once the parameterization for the random effects was established, the final fixed effects were evaluated by sequentially eliminating effects from the full model, beginning with the interaction terms, and evaluating the effects on AICC. The full model, which included all main effects and interactions, was the best of the candidate models for describing the fixed effects (Table 3-9).

Table 3-9. Comparison of Akaike Information Criteria for nested models with various fixed effects. For AICC smaller numbers represent improved model fit. Models were fit using maximum likelihood.	
Model Parameterization	AICC
Flow rkm quarter	2440.62
Flow rkm Flow*rkm quarter	2431.23
Flow rkm Flow*rkm quarter Flow*quarter	2368.47
Flow rkm Flow*rkm quarter Flow*quarter rkm_sq	2352.94

Once the final model was selected, diagnostic plots and prediction curves were generated to evaluate the model fit across a range of conditions. A summary plot of the predicted probability of occurrence as an effect of season and river kilometer is provided in Figure 3-20a. The results suggest an increasing probability of occurrence with movement upstream in the river and higher overall probability of exceedance in Q3. These predictions are based on the linear component of river kilometer as the quadratic effect is held constant. Quarters 1 and 4 had lower overall probability of exceedance and multiple comparisons of the quarters term suggested that Q2 and Q4 were not statistically different in terms of their general relationship with river kilometer as evidenced in Figure 3-20b, which provides multiple comparison test-adjusted differences for the least squares mean estimates for the Quarter main effect (SAS Institute, Inc. 2016). However, the interaction terms again complicate this result. For instance, when evaluating the effects by

quarter for four different flow scenarios (Figure 3-21), one can see that at the lowest flows, Q2 had the highest probability curve which quickly diminished as flows increased and had the lowest probability curves at the highest flows, implicating residence times as a potential factor limiting chlorophyll exceedances in the spring season. Quarter 3 (August) tended to be rather resistant to changes in flows.

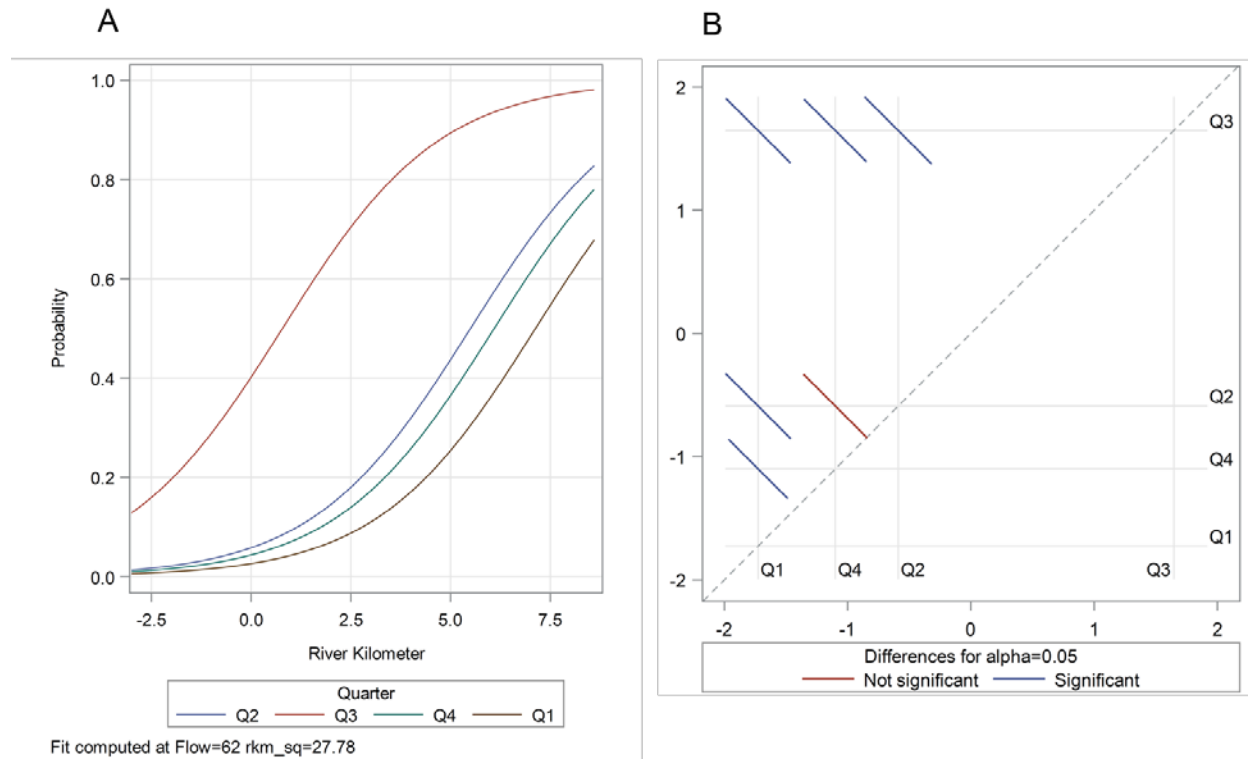


Figure 3-20. Predicted probabilities for each quarter as a function of river kilometer at a fixed daily flow of 62 cfs (A) and a diffogram of the multiple comparisons test to assess differences between quarters (B).

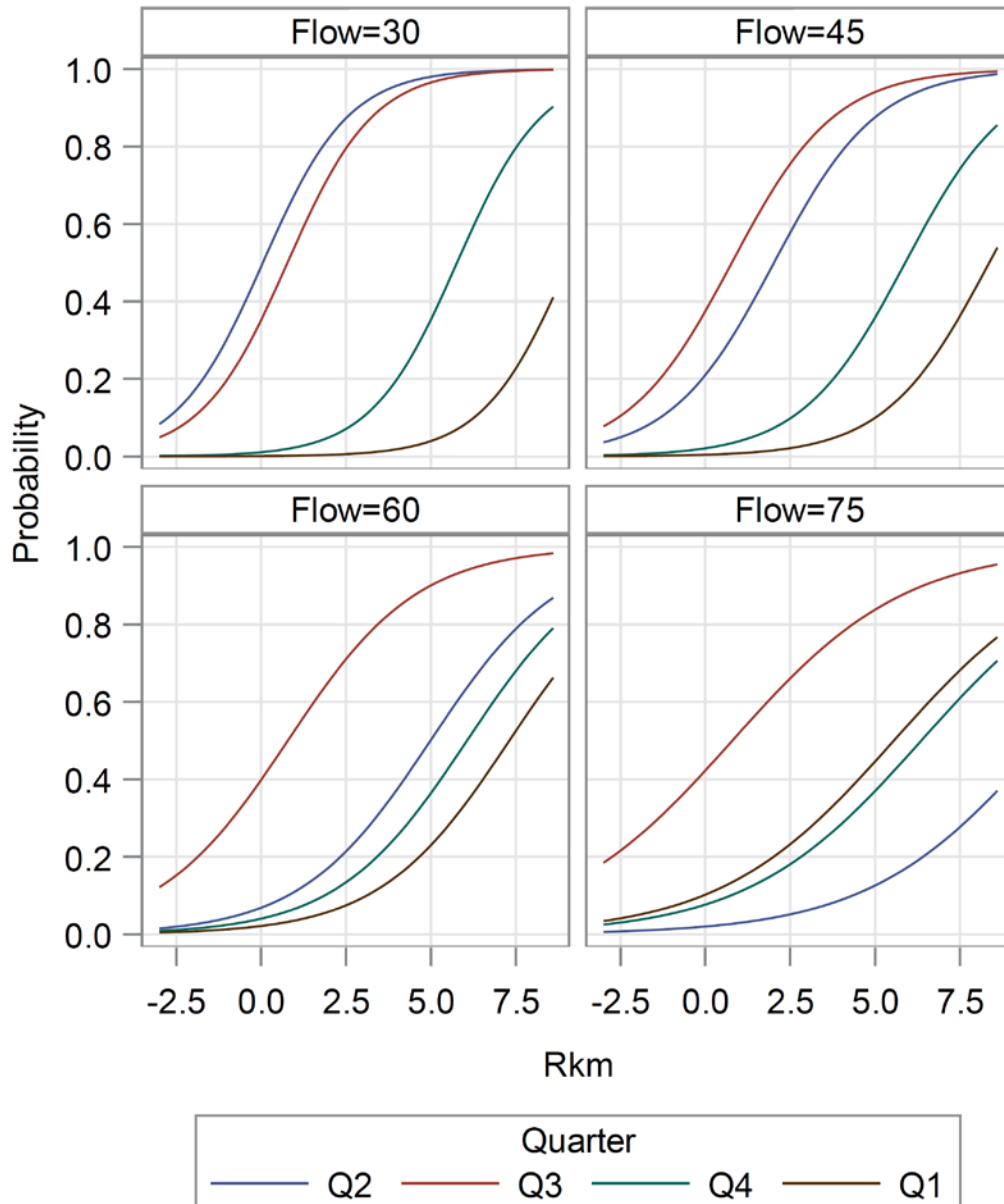


Figure 3-21. Predicted probability of exceedance as a function of river kilometer by quarter for four fixed flow values in the Chassahowitzka River.

In Figure 3-22, the relationship between flow and the predicted probability of exceedance by quarter is plotted at 4 different locations in the river (Rkm -3, 0, 3, 6). The effects of flow are clearly most visible upstream in Quarter 2 where decreased flows are predicted to increase the probability of an exceedance. The effects of the interaction terms are also clearly evident as the slope varies significantly by quarter and by location in the estuary. Based on these results, it is evident that, with respect to establishing minimum flows for the system, the effects of flow reductions will be most relevant in Q2, precisely when the flows tend to be at or near their annual minima.

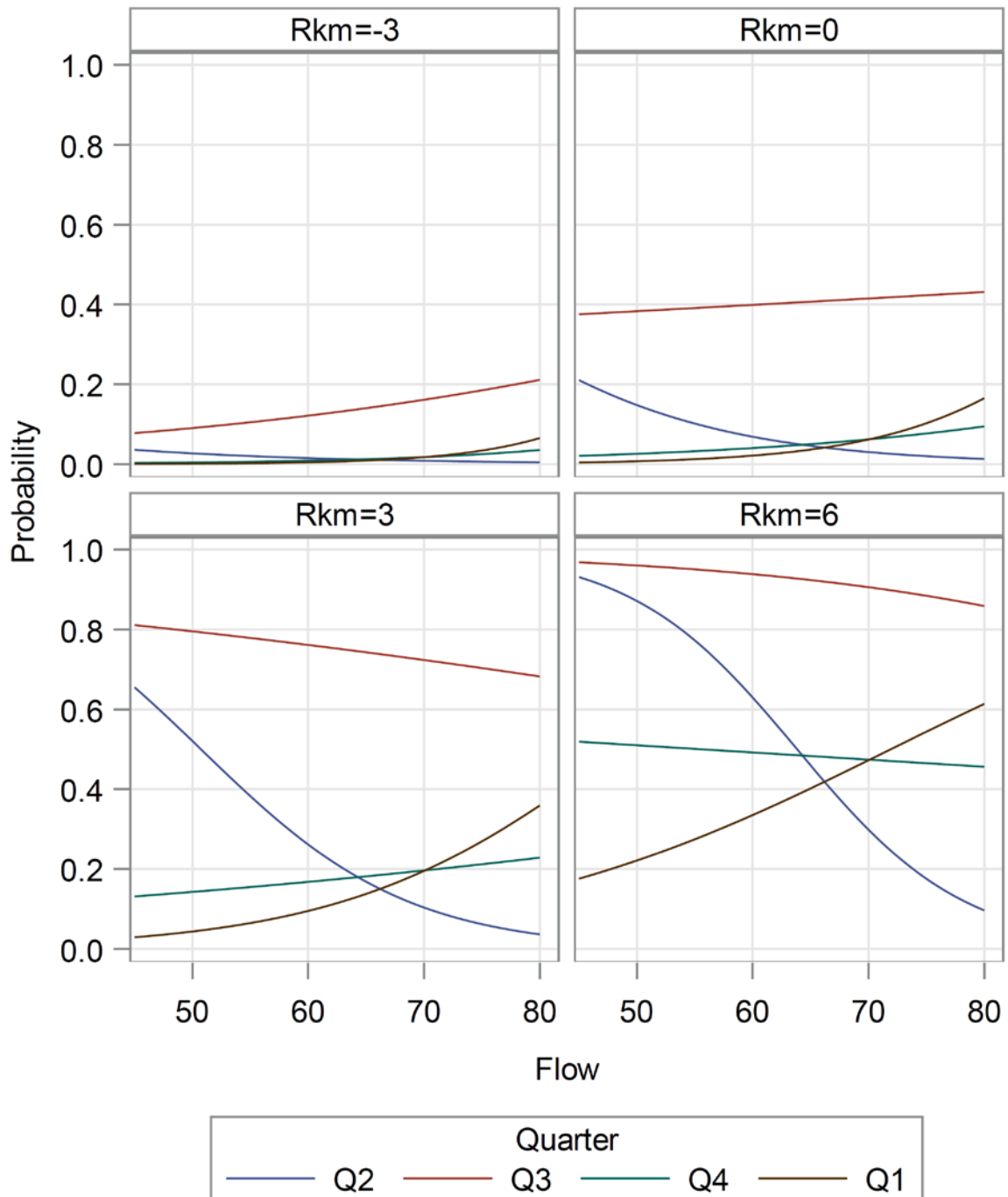


Figure 3-22. Predicted probability curves as a function of flow by quarter at 4 different locations in the Chassahowitzka River System.

This model was subsequently used to evaluate the effects of flow reductions on changes in chlorophyll a exceedance probabilities for the upper portion of the river. The results of that evaluation are described in Chapter 4.

3.4 ESTUARY

The goal of the estuary analysis was to assess relationships between flows and water quality constituents of interest for sites located outside the hydrodynamic model domain. Sites for the mainstem of the river were described by the analysis above. The “Estuary” sites include four Project COAST (P529) sampling stations, as well as three transects from the previously completed UF 5 Rivers Study (Figure 3-23). Two Project Coast sites (9, 10) were deemed too far removed from the mouth of the river to be useful for this evaluation.

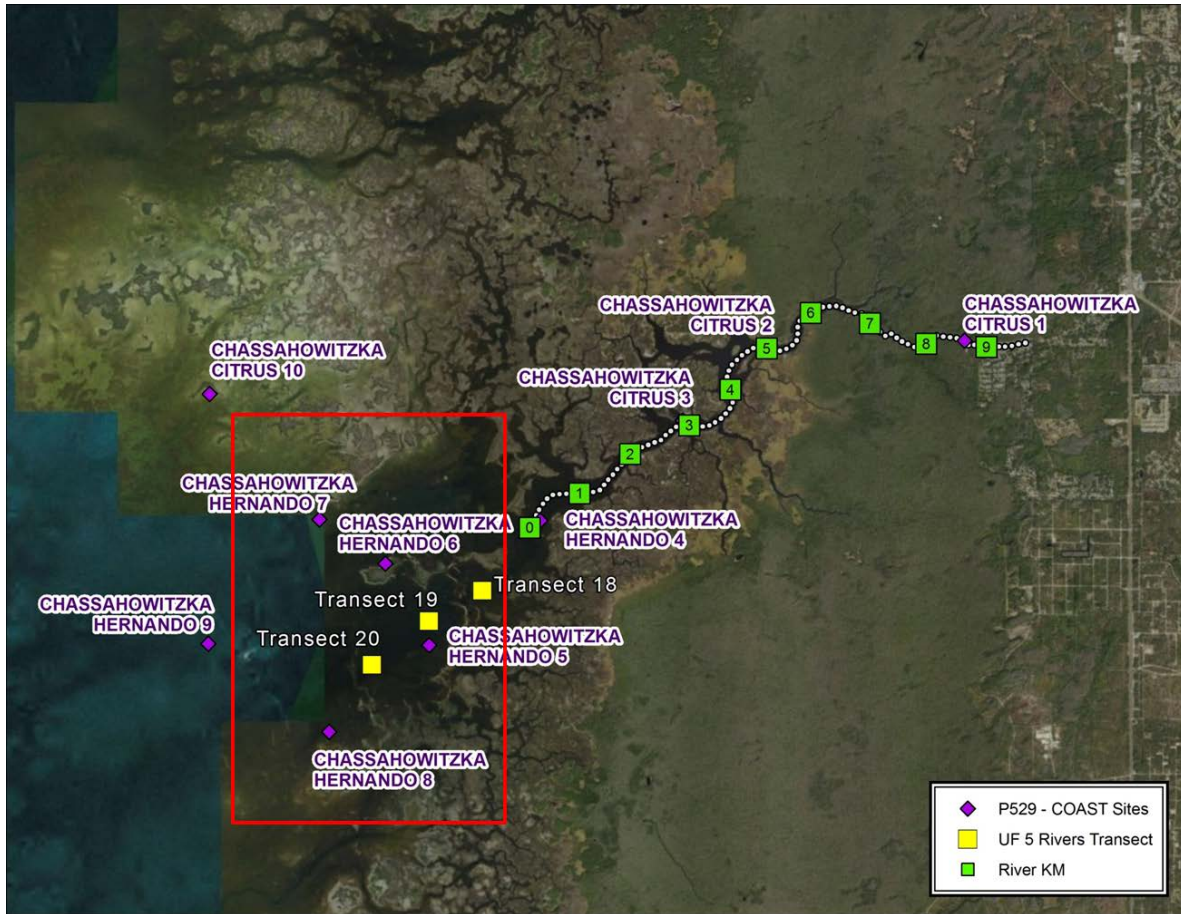


Figure 3-23. Sampling areas in the estuary outside of the hydrodynamic model domain considered for analysis for the “Estuary” (highlighted with red rectangle).

The same regression process used for the Springs data was applied to the Estuary sites. Outliers indicated by robust regression and data points with qualifiers indicating unreliable data were removed from the analyses. The parameters listed in Table 3-10 were tested for significant relationships with flow. After application of the linear regression acceptance criteria adopted for this project, salinity was the principal water quality constituent affected by springs flows which was consistently inversely related to flow in all stations except Hernando 6. Plots for all stations and parameters analyzed are provided in Appendix E.

Table 3-10. List of water quality constituents evaluated for linear relationships with flow.	
Parameter	Sampling Program(s)
Alkalinity (Total)	UF 5 Rivers
Ammonia	UF 5 Rivers
Chlorophyll a (corrected)	UF 5 Rivers
Chlorophyll a (uncorrected)	UF 5 Rivers
Chlorophyll a (Total)	P-529
Chlorophyll (Total)	P-529
Color	UF 5 Rivers, P-529
Dissolved Oxygen	UF 5 Rivers, P-529
Light Attenuation Coefficient	P-529
Nitrogen – Total	UF 5 Rivers, P-529
Nitrate	UF 5 Rivers
pH	UF 5 Rivers, P-529
Phosphorus – Total	UF 5 Rivers, P-529
Salinity	UF 5 Rivers, P-529
Secchi-vertical	P-529
Specific Conductivity	UF 5 Rivers
SRP	UF 5 Rivers
Temperature	UF 5 Rivers, P-529

In a study by Yobbi and Knochenmus (1988), the location of 25-ppt salinity isohaline in the Chassahowitzka River had a range in movement that was more than three times as great as the range in movement of the upstream extent of the zone of saltwater mixing. The authors also report that the 18-ppt salinity isohaline can be expected to be found downstream of the river mouth about 90 percent of the days; and the 25-ppt salinity can be expected to be found 3 miles or more outside the river mouth about 90 percent of days. The authors examined how a 15% reduction in spring flow (via groundwater pumping) would impact upstream movement of low salinity in the river but unfortunately did not report on the movements of higher salinities in the estuary as a result of flow reduction.

Site Name	Parameter	Intercept	Slope	DF	R Square	P Value
CHASSAHOWITZKA HERNANDO 5	Salinity (Total)	35.4046	-0.3257	215	0.32	0.0000
CHASSAHOWITZKA HERNANDO 7	Salinity (Total)	37.9703	-0.3207	214	0.30	0.0000
CHASSAHOWITZKA HERNANDO 8	Salinity (Total)	37.9498	-0.3221	215	0.32	0.0000
Transect 18 - 3	Salinity (Total)	37.2142	-0.3780	43	0.35	0.0000
Transect 19 - 3	Salinity (Total)	39.9059	-0.3981	43	0.34	0.0000
Transect 20 - 3	Salinity (Total)	40.2606	-0.3735	43	0.32	0.0001

As a general application of the regression results for each unit change in the 3-day flow, salinity at the estuarine sites would change by between ~ 0.3 psu (at Chassahowitzka Hernando 7) to ~0.4 psu (at the Transect 19 location). Using the median Chassahowitzka flow of 62.5 cfs, a 15 % reduction in flow would result in between a 3.0-3.7 psu increase in salinity depending on station. However, there is currently no criterion value from which to identify significant harm to the estuary as a function of changes in salinity in the open estuary. Given that the estuarine area examined in the current analyses is so far removed from the springs flows, and is affected by direct rainfall, surface flows from coastal zone runoff, and wetland storage, there appears to be little utility in directly using these regressions to support the establishment of minimum flow criteria for the springs flows to the system.

3.5 CONTINUOUS WATER QUALITY MONITORING STATIONS

There are three continuous water quality monitoring sites in the Chassahowitzka River (Figure 3-24). The most upstream site collected data on salinity, temperature, dissolved oxygen, pH and nitrite+nitrate, while the downstream locations (near Mouth and Near USGS) include several additional fluorescence-based estimates including chlorophyll, fluorescence dissolved organic matter (FDOM), light spectra, nitrate, and turbidity. These latter parameters are of particular interest since the salinity and temperature parameters are modeled by the hydrodynamic model developed separately for reevaluation of the minimum flows.

Exploratory data analysis consisted of evaluating the relative contribution of within- and between-day variability on the distribution of data available within each quarter for the period of record between January 2017 and March 2018. Much of these data are still provisional and therefore the results are meant only for exploratory analysis. The coefficient of variation (i.e. CV= the standard deviation divided by the mean) was used to quantify the variability around the expected value. For the within-day variation, the result was a distribution of CV values. For the between-day variability, the average value for each date was calculated and then the CV of the daily average values was calculated resulting in a single CV value to represent the between-day variation. These results were then overlaid to evaluate the relative difference between the within- and between-day variability.

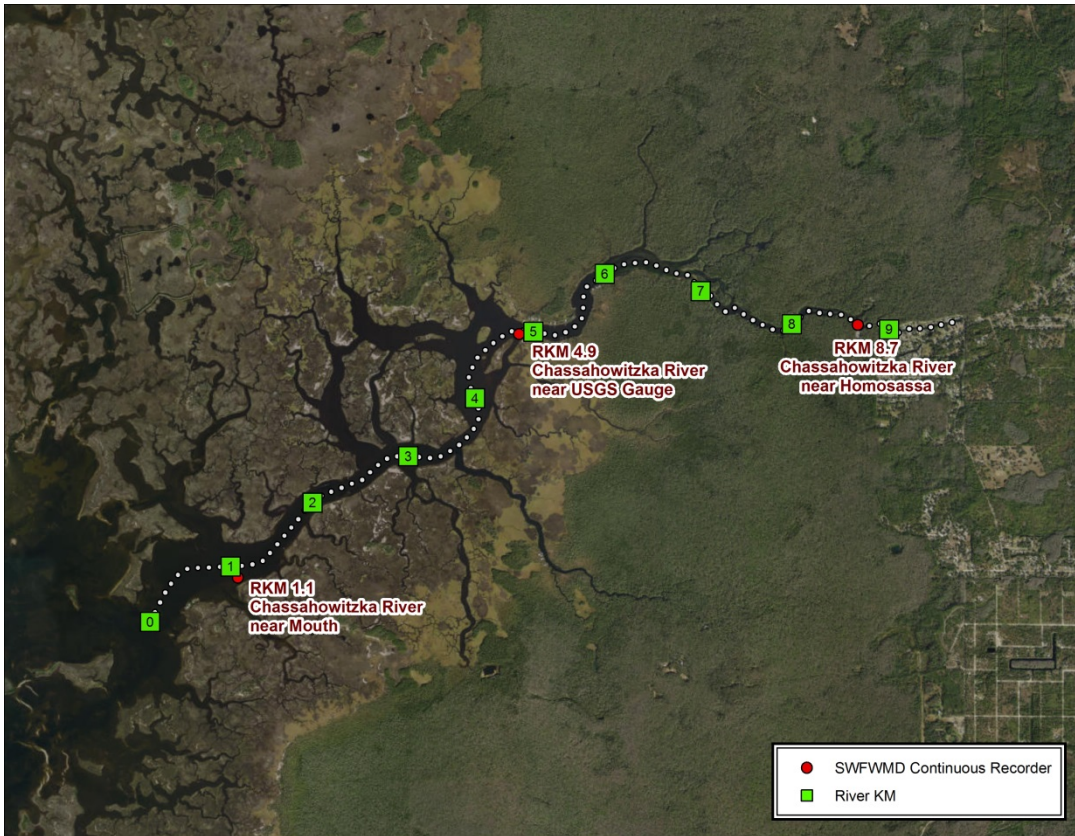


Figure 3-24. Location of continuous recorder gages in the Chassahowitzka River.

An example application of this approach is provided for the USGS gage at Chassahowitzka River near Homosassa (USGS 02310650) that includes discharge measurements from the main spring as well as continuous NO₂ data. These are 15-minute data that were averaged by hour. A plot of the timeseries for discharge and nitrite+nitrate is provided in Figure 3-25. Missing data are evident in both timeseries but more prevalent in the NO₂ data. The CV plots are provided in Figure 3-26 and suggest that within-day variability may be substantial relative to the between-day variability within a quarter for both flow and NO₂. The CV of the daily discharge was consistently below the within-day CV in all quarters, suggesting that while the daily average flows are seasonally consistent, tidal action has considerable effect on the discharge estimates within a day. The NO₂ variations are similar and quite small both within- and between-day with CV values typically less than 10% of the mean. It should be noted that the within-day CV is calculated based on the standard deviation of 24 observations while the between-day variability is calculated from 90 daily observations and, as such, the standard deviation for the within-day CVs may not represent an asymptotic value in all cases.

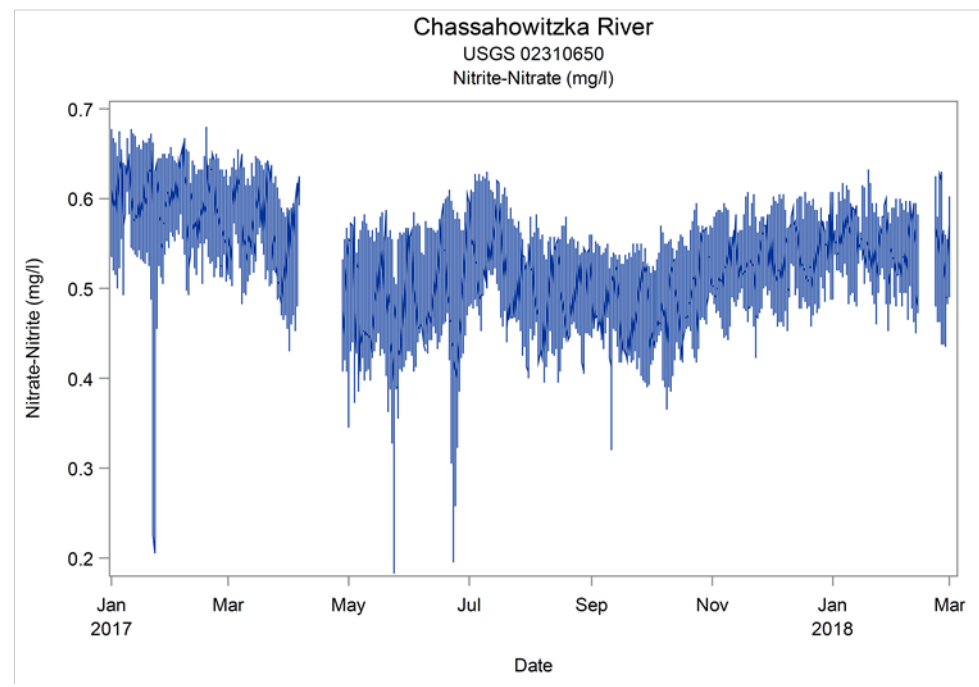
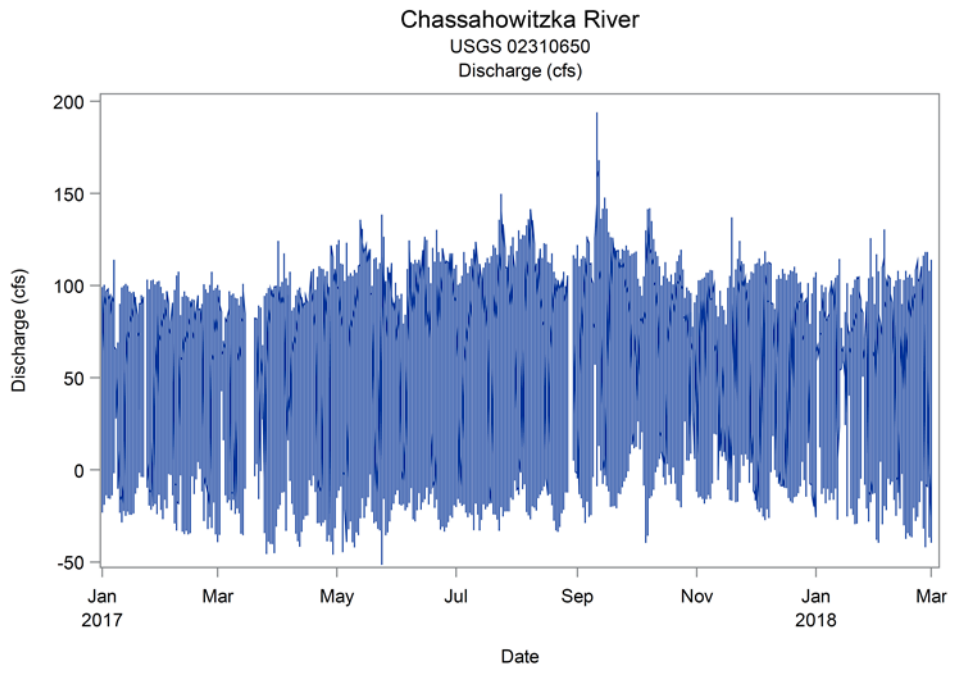


Figure 3-25. Timeseries of Discharge (top) and nitrite+nitrate (bottom) from the continuous recorder gage Chassahowitzka River near Homosassa (USGS 02310650).

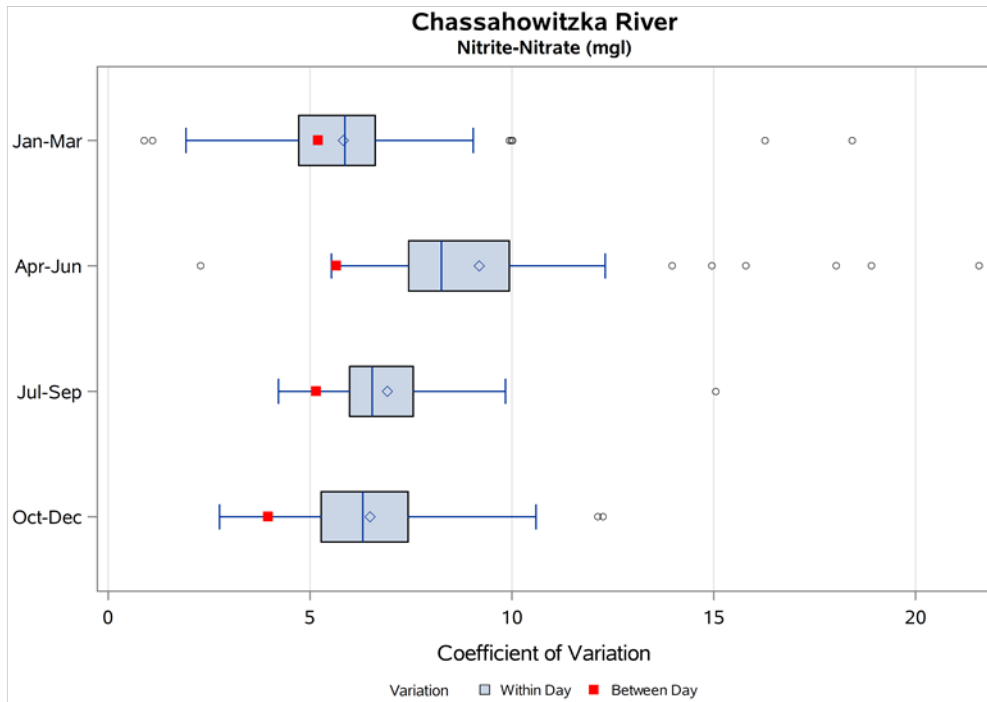
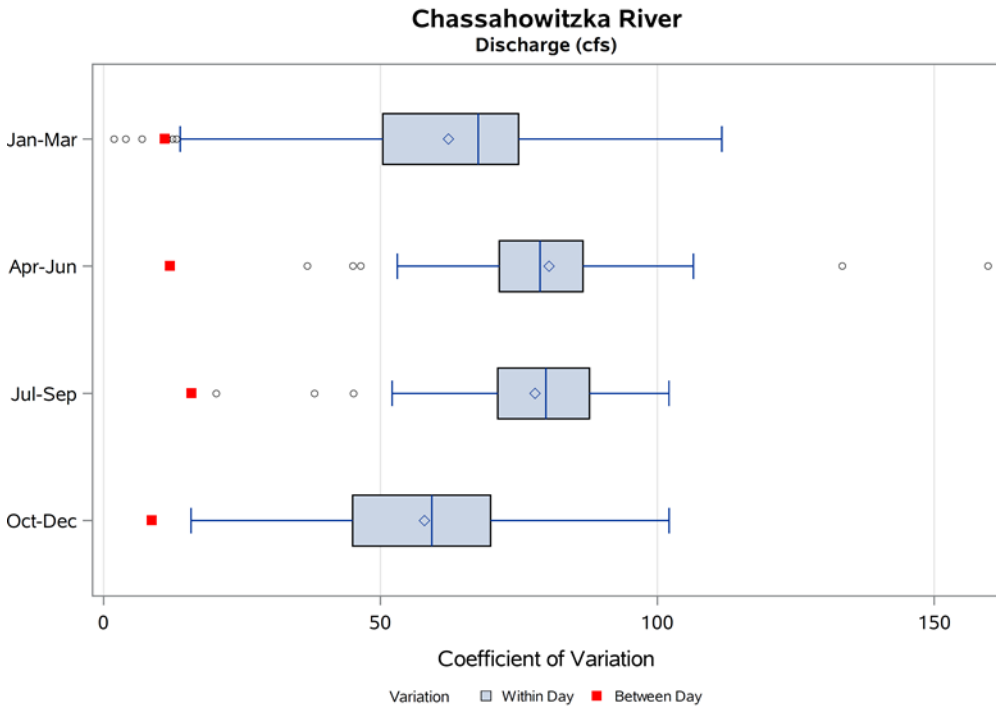


Figure 3-26. Coefficient of variation plots for discharge (top) and nitrite+nitrate (bottom) from the continuous recorder gage Chassahowitzka River near Homosassa (USGS 02310650).

A scatter plot of the relationship between discharge and NO₂3 for this gage is provided in Figure 3-27 and suggests no correspondence between flows and NO₂3; the data are centered around 0.52 mg/l irrespective of flows from the main spring.

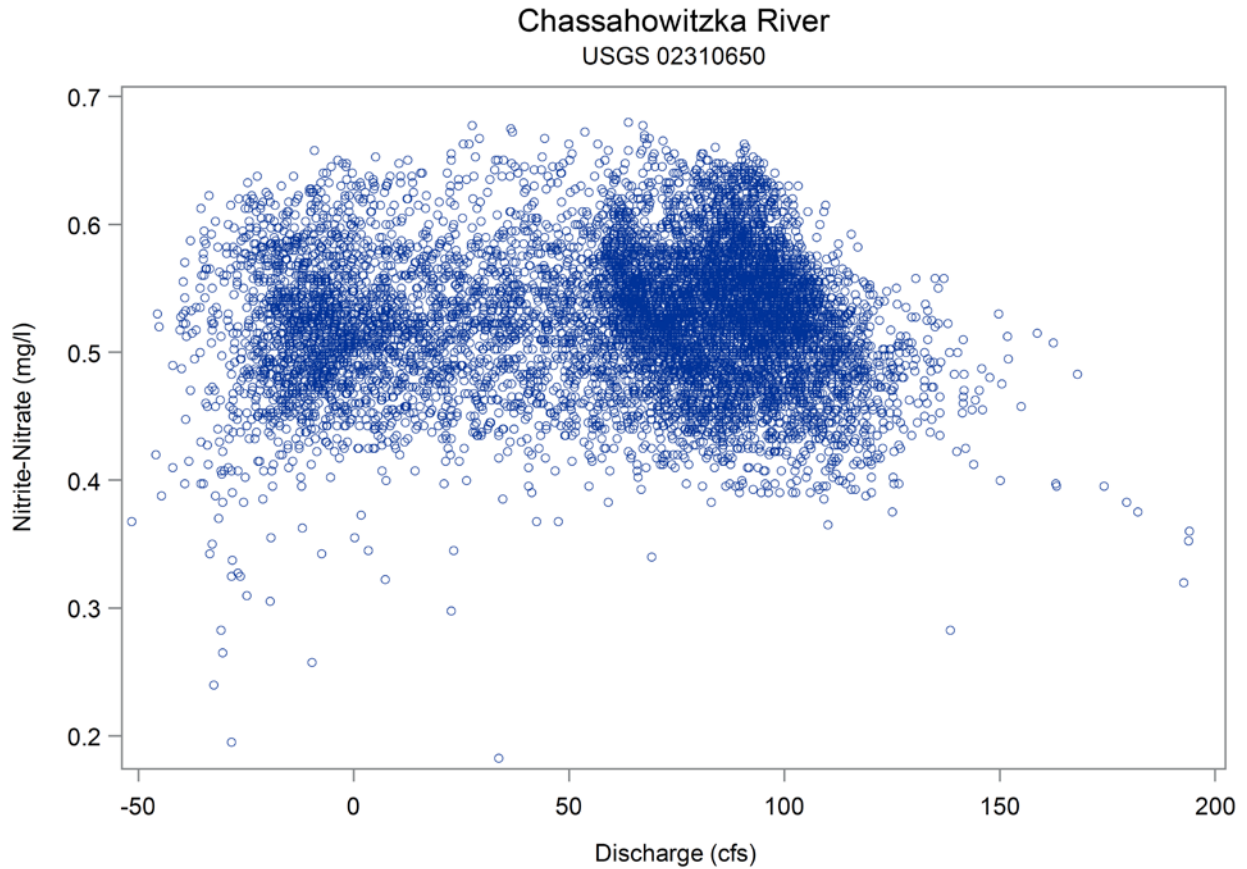


Figure 3-27. Relationship between discharge and NO₂3 from the continuous recorder gage Chassahowitzka River near Homosassa (USGS 02310650).

The hourly distribution of NO₂3 is also quite consistent, though there seems to be a tendency for NO₂3 concentrations to be slightly lower in the early afternoon (Figure 3-28).

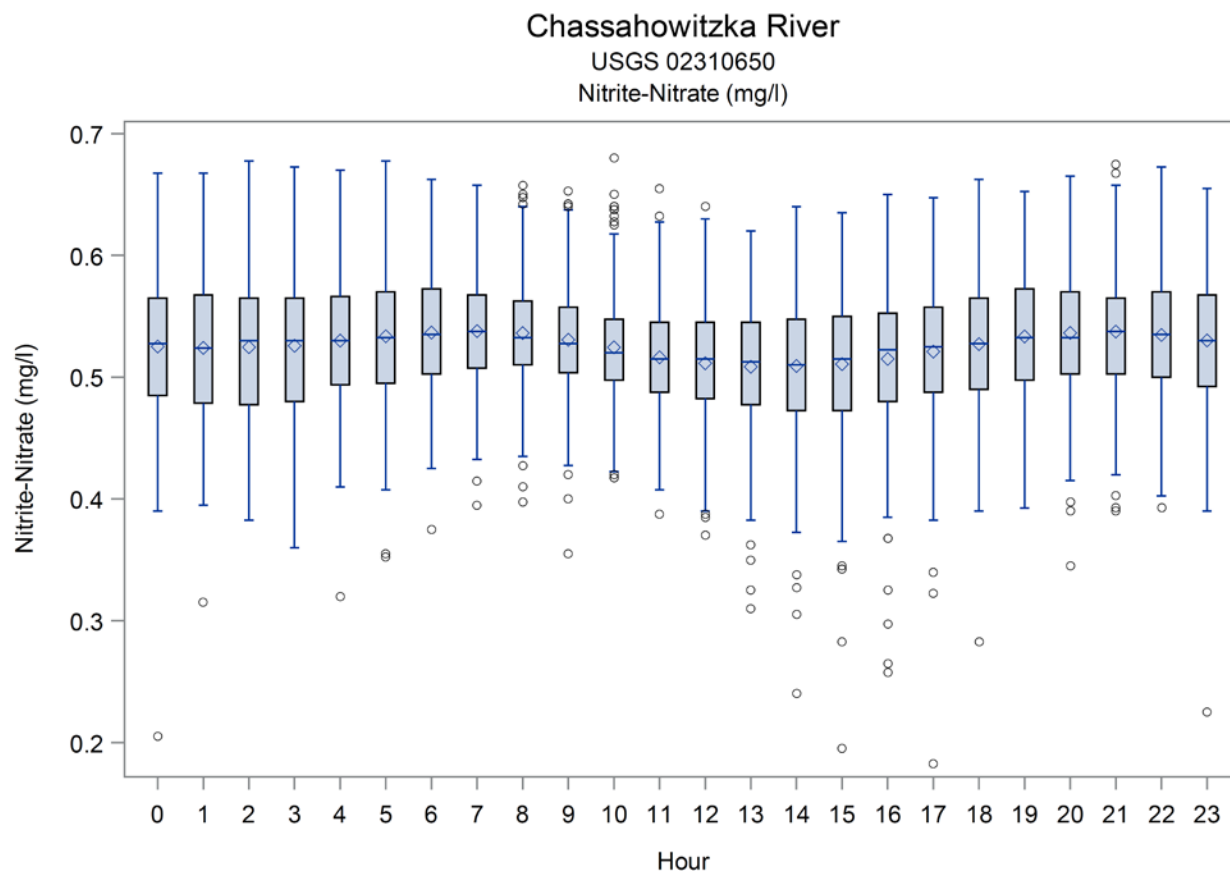


Figure 3-28. Distribution of hourly nitrite+nitrate concentrations (mg/l) from the continuous recorder gage Chassahowitzka River near Homosassa (USGS 02310650).

The two downstream locations included more parameters but also more missing data. Timeseries for NO₂+NO₃ at the two downstream continuous recorders is provided in Figure 3-29 and suggest considerable seasonal differences when data are available. The CV plots (Figure 3-30) confirm that the between-day CV tends to be larger than the within-day distribution of CVs. Note that the x-axis scales are different in these plots as well.

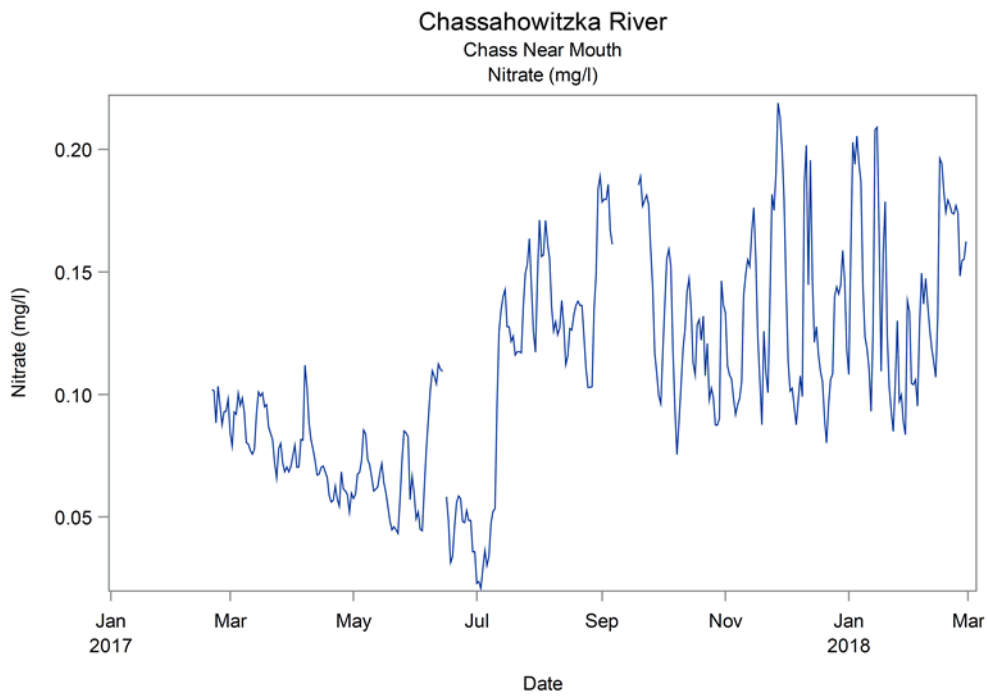
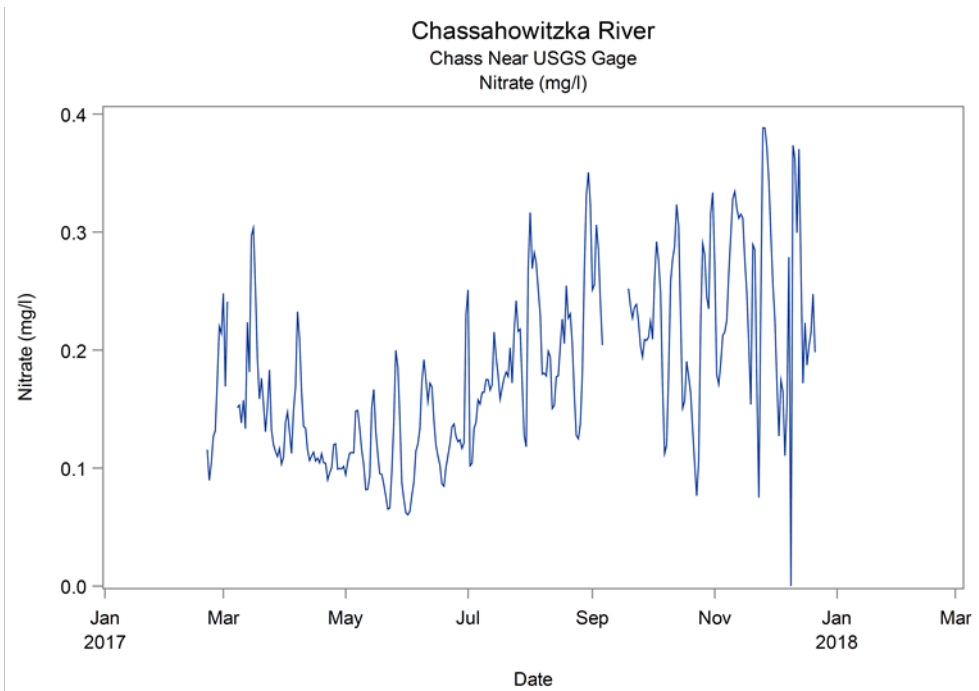


Figure 3-29. Timeseries plots for nitrite+nitrate at the two downstream continuous recorder sites, near USGS Gage (Top) and Near Mouth (Bottom).

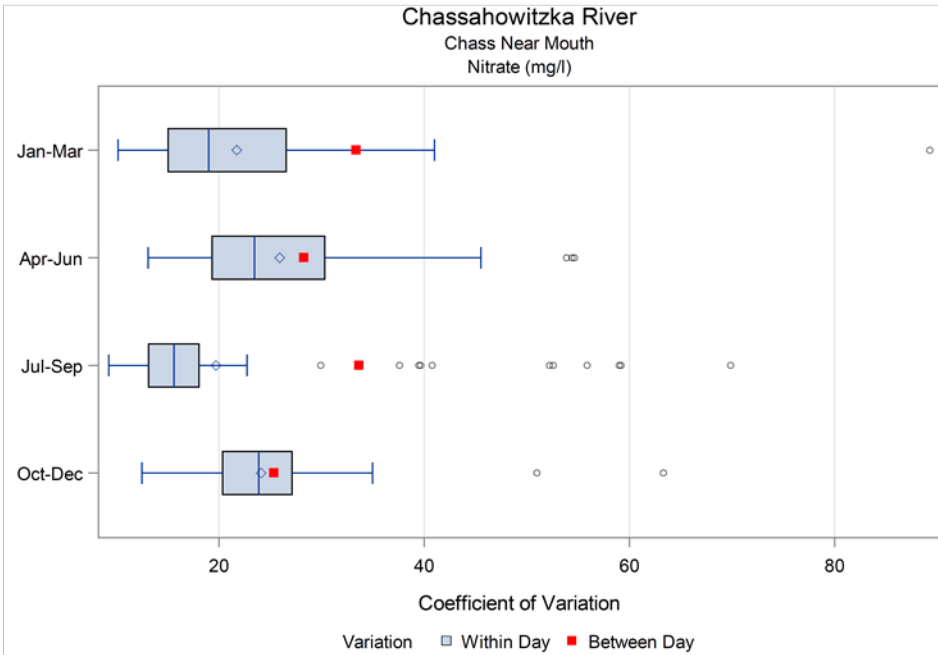
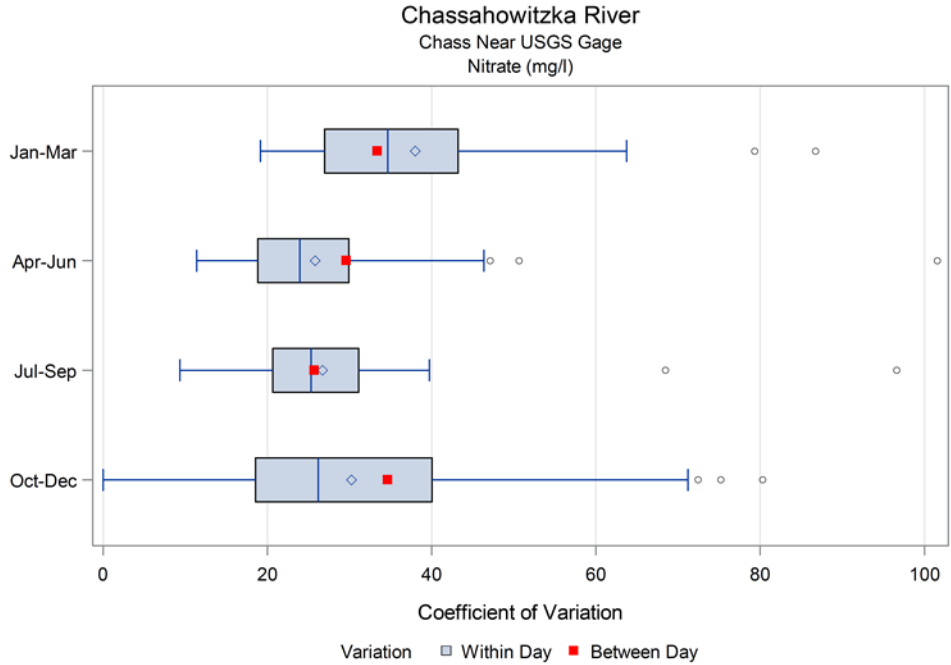


Figure 3-30. Coefficient of variation plots for nitrate-nitrate for the two downstream continuous recorder sites, near USGS Gage (Top) and Near Mouth (Bottom).

Plots for all constituents are provided in Appendix F. Part of the work effort also included spectral decomposition analysis to identify principal dominant frequencies in the continuous recorder data. Spectral decomposition analysis does not allow for missing values which hampers the ability to evaluate the data for dominant frequencies. However, an example of the analysis was performed using a short segment of data for dissolved oxygen (DO) at the near

USGS Gage site to investigate the ability of the spectral decomposition approach to detect short term seasonal signals in the continuous recorder data. The data were hourly DO measurements in mg/l. The analysis cannot include missing values so we used the timeseries between January and September of 2017. DO measurements over that period ranged from 0.01 mg/l to 15.03 mg/l. Spectral analysis suggested the first dominant frequency was 24 indicating a diurnal signal (a frequency = the number of observations required to complete a cycle); this is termed “seasonal” irrespective of the frequency so, in this case, “season” is a day. Defining the dominant frequency for decomposition yields Figure 3-31 that includes the observed data; the 24 hour frequency; the de-seasonalized trend, and the residuals. The time axis is displayed as the number of the cycles so, in this case, days.

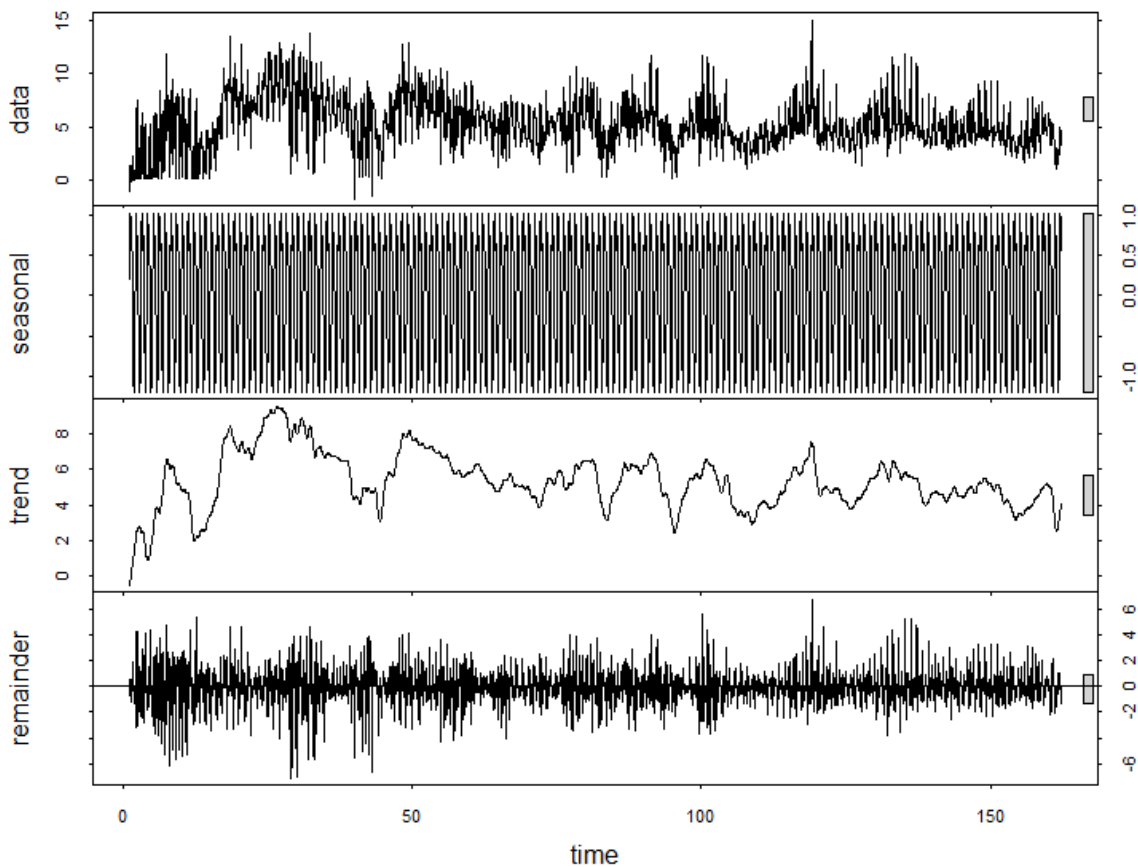


Figure 3-31. Seasonal decomposition of dissolved oxygen timeseries including raw data (top), seasonal cycle identified (second from top), the de-seasonalized timeseries trend, (second from bottom), and the residual (bottom).

To discover an additional frequency in the data we performed spectral analysis on the residuals resulting from the first analysis. This yielded a 12-hour frequency indicating the potential of a tidal signal (plot not shown). These outcomes make sense for dissolved oxygen dynamics in tidal systems including a diurnal component associated with production and respiration and a

tidal component associated with mixing of fresh and salt waters. It seemed possible that lunar cycle might also have an effect though no additional dominant frequencies were identified by spectral decomposition. There is a way to specify multiple frequencies into a decomposition method. It is much more complex and has a number of complex embedded functions that perform ARIMA modeling on residuals and box cox transformations, all automatically. We used this method and specified tidal (12-hour), diurnal (24-hour), and lunar (672-hour) frequencies. The results are provided in Figure 3-32. The “observed” plot (top) is simply the raw data. The “level” and “slope” plots below that present the step changes between observations from one time step to another. The three “seasonal” signals from top to bottom are 12, 24, and 672 hour frequencies. More investigation would need to be conducted to determine if the lunar cycle imposed on the data was reasonable.

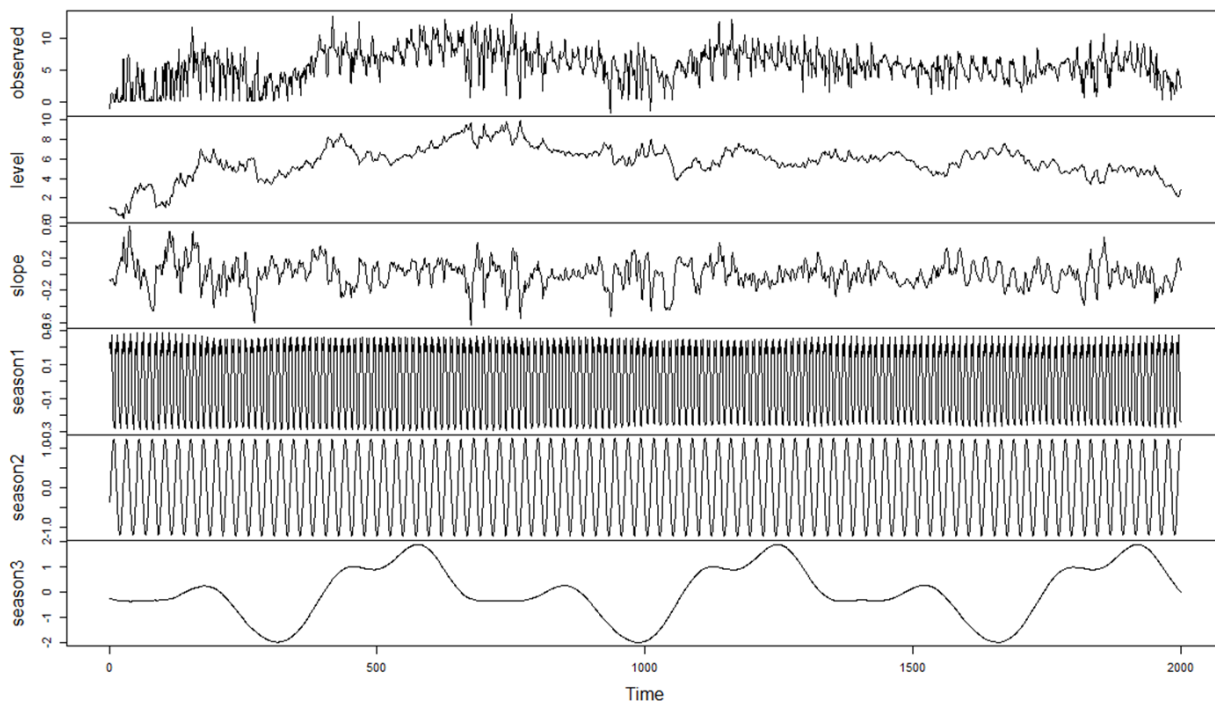


Figure 3-32. Specification of multiple (12, 24, and 672 hour) frequencies in a spectral decomposition of the dissolved oxygen timeseries for the near USGS Gage site.

The results suggest that spectral decomposition may be a valuable approach to identify short term cycles in continuous recorder data, but more data are needed, and an approach to handle missing data needs to be developed in order to accurately identify dominant wave forms in the longer-term continuous recorder data.

4.0 APPLICATION TO MINIMUM FLOWS ASSESSMENT

This work effort was completed to support the District's consideration of the water quality environmental value in its reevaluation of minimum flows for the Chassahowitzka River System. The tools developed as part of this work effort may be used in future analyses to support various aspects of flow management in these systems. In an effort to evaluate the efficacy of these tools for future assessments of the effects of flows on water quality, a summary of the minimum flow evaluation process is provided, and the chlorophyll model developed for the river mainstem was used to assess the potential for this type of model to be used in future assessments.

The goal of a minimum flows determination is to protect the resource from significant harm due to withdrawals. This goal was broadly defined in the enacting legislation as "the limit at which further withdrawals would be significantly harmful to the water resources or ecology of the area." What constitutes "significant harm" was not defined. In the absence of specific stressor-response threshold values identifying significant harm, a 15% reduction in a beneficial attribute of a resource of concern has been identified as a prescriptive standard by which significant harm has been defined. This 15% threshold has been used and supported in the development of the majority of minimum flows developed for Southwest Florida Water Management District which have been peer reviewed and subsequently adopted into Florida Administrative Code. The identification of the threshold values relies on a "percent of flow" approach in which predictive equations or mechanistic models are used in an iterative fashion to evaluate the effects of daily flow reduction scenarios of various increasing percentages of flow until the response threshold is achieved.

Results of the analysis described in Section 3.4 suggested that the model developed to assess the response of chlorophyll distributions to changes in flows had potential to provide supporting evidence to evaluate the water quality environmental value as part of the minimum flows reevaluation for the Chassahowitzka River, though the model would require validation before implementation as a regulatory tool. The sections below detail how the model could be implemented and presents results of that implementation for a hypothetical set of flow reduction evaluations under the assumption that the model is predictive of future conditions.

4.1 FLOW REDUCTION SCENARIOS

To apply results of the chlorophyll a model to evaluate the effects of flow reductions on increases in the exceedance frequency of the chlorophyll threshold, 15 flow reduction scenarios corresponding to 1% to 15% reductions from the baseline flow record for the Chassahowitzka River, in 1% flow-change increments, were developed. The period from 1998 through 2017, generally corresponding to when gauged flows were available for the system, was identified as the period of record for the analyses. Season (i.e. Quarter) was assigned to each date based on month such that January-March was defined as Q1, April-June as "Q2", July-September as "Q3" and October-December as "Q4". In addition, after initial discussion of the model results, the area between sites 1 and 10 was identified as the focus area for analysis since this portion of

the system is most likely to be directly influenced by spring flows to the system though the model was developed for the entire system (Figure 4-1). This spatial area is referred to for the remainder of this document as the “inset stratum”. Below site 10 (i.e. Rkm 4.9) the morphometrics of the river change dramatically with the potential for influence from additional tributaries and sheet flow from expansive marsh areas in the lower section of the River. This is evidenced by a plot showing the thermal effects of springs flows during cold events (Figure 4-2) provided in Heyl et al 2012. This “inset stratum” portion of the system is also important low salinity habitat that can serve as nursery areas for juvenile fishes or recreational and commercial value.

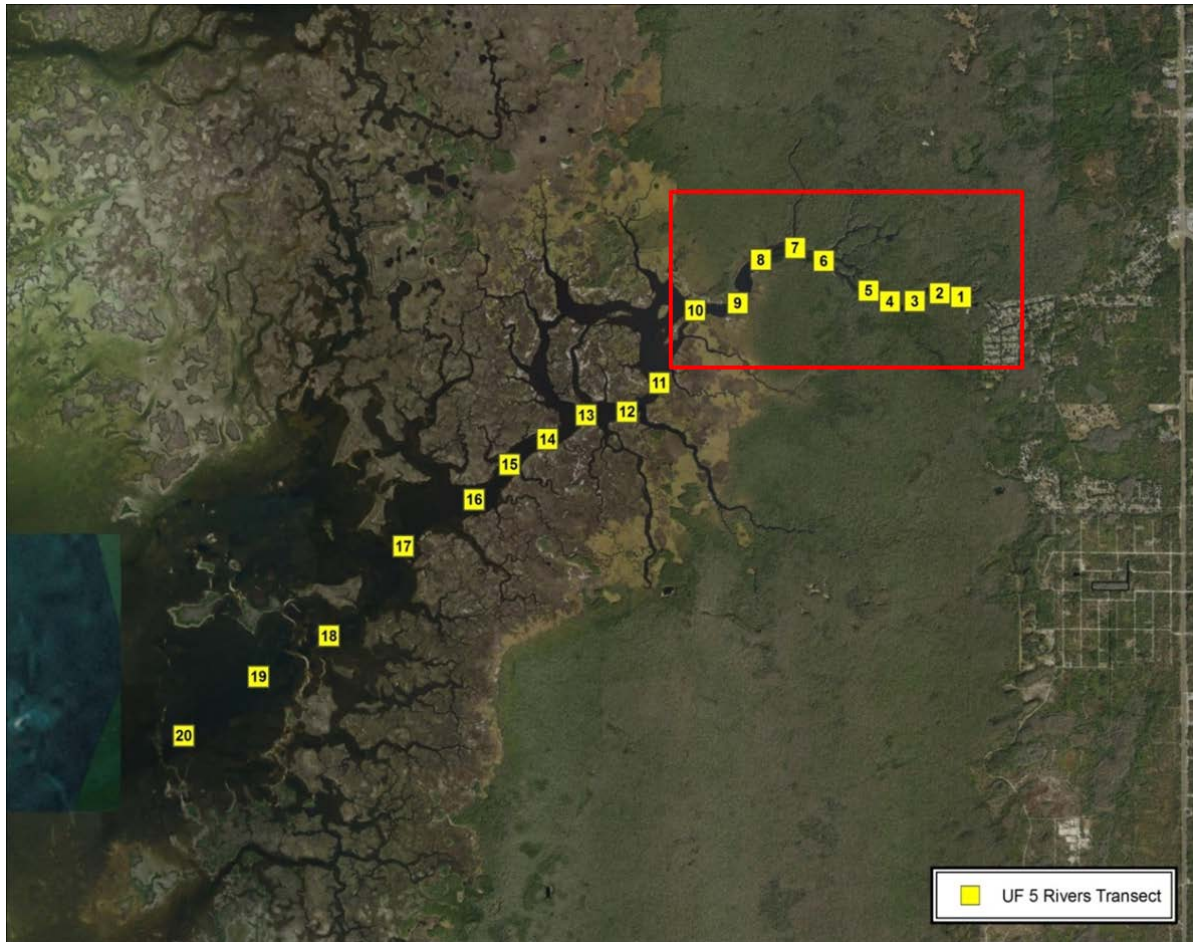


Figure 4-1. Station locations in the Chassahowitzka River displaying the “inset stratum” relative to morphometric and landscape characteristics of the system.

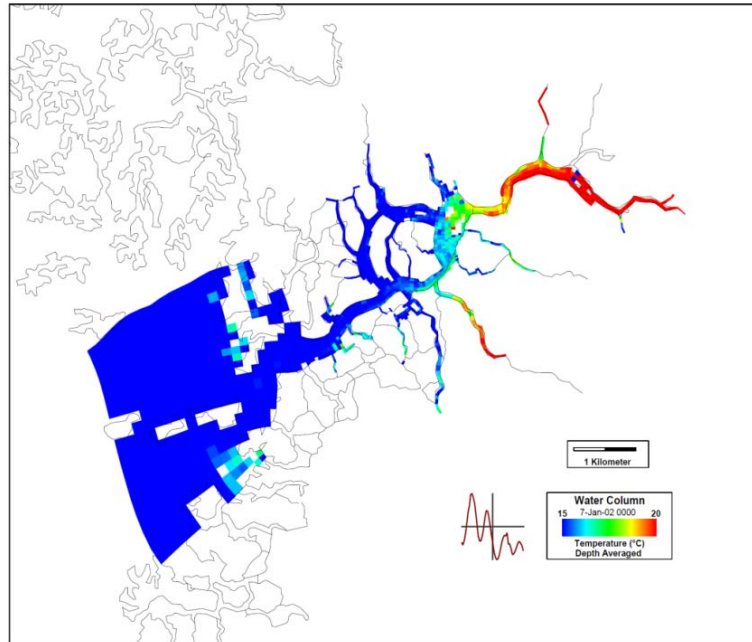


Figure 4-2. Thermal gradient displaying effects of spring flows on temperature as described in Heyl et al. 2012 (red is warmer, spring water).

The GLMM outputs two types of predictions; “marginal” prediction also known as Best Linear Unbiased Estimates (BLUEs), or population level predictions, and “Conditional” estimates (i.e. conditional on the random “site” effects) known as Best Linear Unbiased Predictions (BLUPs). Both predictions are valid and the choice of which to use depends on the question being addressed. For example, if the expectation for the population average at any point in the river is desired, the BLUEs might be chosen to infer the model results to the entire model domain. However, if site-specific characteristics are important to the inference, then the conditional estimates (BLUPs) might be chosen to ensure an adequate representation of the response at the sampled locations (Littell et al. 1996). We consider both these estimates as potential outcomes and describe the differences associated with each outcome.

To evaluate the effects of the flow reduction scenarios, a cutpoint had to be defined to identify whether or not a predicted probability of exceedance would be classified as an exceedance of the site-specific value. A cutpoint value of 0.50 was chosen based on its common use as a standard for a logistic curve of predicted probabilities that approach 1 at some point along the gradient. A plot of the effect of potential alternative cutpoint values on the model fit suggested there was not a clear alternative that would improve the model accuracy relative to the empirical data. The final model (Parameterization 3) was used to predict the probability of exceedance for each date in the timeseries at each station location above Rkm 4.9 and those predicted probabilities were converted to presence/absence identifiers for each scenario using the cutpoint value. The predicted exceedance frequencies were then summed across the entire time period for each flow reduction scenario and summary statistics were generated to evaluate the results. There are several statistics commonly used to evaluate outcomes of logistic

regressions that have analogous applications for describing the predicted relative difference in the number of exceedances between the Baseline and a flow reduction scenarios including:

Risk of Exceedance: The percent of the values expected to exceed the standard for a particular scenario.

Risk Difference: Expressed as the difference between the Baseline risk of exceedance and the risk predicted by a flow reduction scenario.

Relative Risk (or Risk Ratio): the risk in the scenario group divided by the risk in the Baseline group.

Odds Ratio: the ratio of the odds of an exceedance in the scenario group divided by the odds of exceedance in the baseline group.

These statistics were used to evaluate the predicted effects of the flow reduction scenarios on the exceedance frequencies and to identify the flow reduction scenario that resulted in a 15% change from the Baseline exceedance rate. The results for the relative risk calculations are presented for each flow reduction scenario in Figure 4-3 for both the BLUP and BLUE estimates. When considering the total predicted exceedance rate for the segment of the river above Rkm 4.9, the 12% flow reduction scenario resulted in a Relative Risk of 1.14, equivalent to a 15% increase in risk of exceedance relative to the Baseline run. The Risk Difference was 6.3% and the Odds Ratio was 1.24, indicating that the odds of exceedance was 1.29 as likely under the 12% flow reduction scenario compared to the Baseline.

The BLUE results were more conservative suggesting any more than an 8 percent reduction in flows would exceed the 15% threshold (Figure 4-3b). To compare the predictions at each sampling site, a panel of paired box plots of the predicted probabilities by quarter under the Baseline and critical reduction scenario are presented for the BLUP and BLUE estimates in Figure 4-4. The effects of the interaction terms is apparent in the plots with the flow reductions resulting in a reduced probability of exceedance in Q1 (Winter) and an increased probability in Q2 (May). In Q3, the Rkm interaction results in flow reductions increasing the probability upstream and decreasing it downstream. The difference between the BLUP and BLUE predictions is also apparent in the site-specific difference for Q2 where the BLUP predictions drop dramatically for both the Baseline and Reduction scenario while the BLUE predictions are a smoother transition as a function of river kilometer.

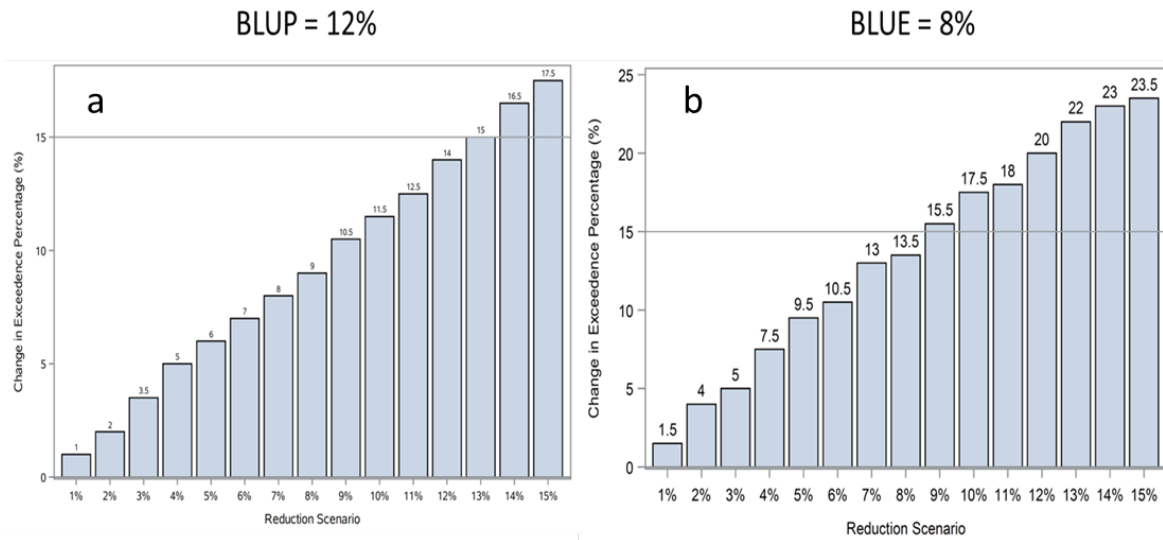


Figure 4-3. Results of flow reduction scenarios on increase in relative risk of exceeding state water quality standard for chlorophyll a in the inset stratum of the Chassahowitzka River. Numbers above bars represent the relative risk compared to Baseline for each scenario.

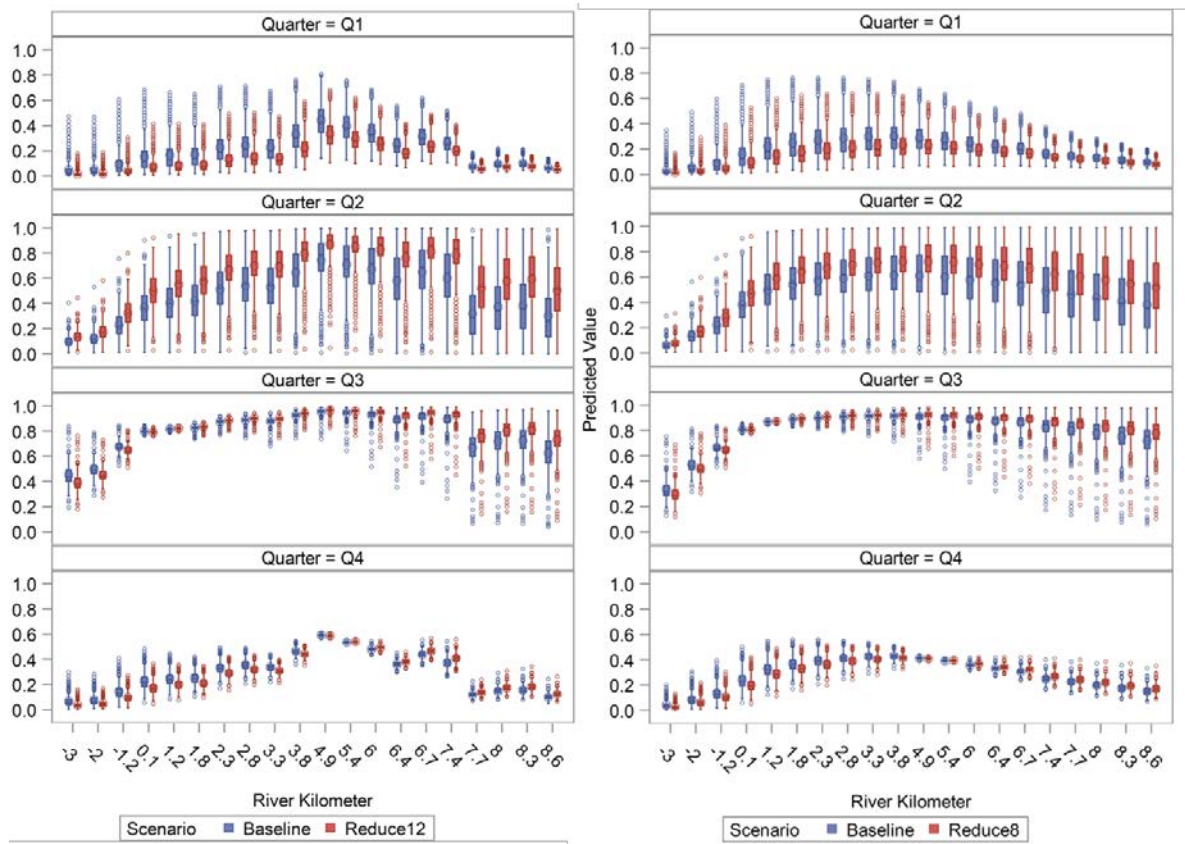


Figure 4-4. Distribution of predicted probabilities by site for the BLUP (left) and BLUE (right) predictions.

4.2 MONTE CARLO SIMULATION

The analysis described in this investigation for the Chassahowitzka River was designed to assess the increased risk of an exceedance of applicable water quality standards to hypothetical flow reduction scenarios and used a 15% change from the Baseline condition as a prescriptive standard by which to identify significant harm. However, the assessment did not, and was not intended to, directly evaluate whether the flow reduction scenario would result in a violation of the site-specific chlorophyll threshold. The state standard is expressed as an annual geometric average and the evaluation was based on a chlorophyll value exceeding that AGM on a particular date. The AGM is used as a regulatory statistic to minimize the effects of data that can be skewed by high values when calculating summary statistics such as the arithmetic mean. By taking the logarithm of a distribution of data that exhibit tendencies to be positively skewed, such as chlorophyll, the transformed data exhibit the bell shaped pattern associated with the normal distribution. This is a common and convenient method used in data analysis to reduce the influence of extreme values on statistical analysis. Since the mean and the median of a normal distribution are nearly equivalent, the AGM generally represents the median of the log normal distribution (Helsel and Hirsch 2002). If one considers the AGM as the median then 50% of the data should lie above the median and 50% should lie below the median. These properties of the distribution were used to simulate the effects additional exceedances of the standard would have on the AGMs as described below.

The overall distribution of chlorophyll values on the natural scale is provided in Figure 4-5 with a median value of 3.40 ug/l and an arithmetic average of 5.40 ug/l. The distribution of the natural log transformed values is provided in Figure 4-5b and shows how the transformation leads to a bell shaped curve. The mean of the transformed data is 1.25. Exponentiation of that number provides the overall geometric mean value of 3.51 ug/l, close to but not exactly the median value.

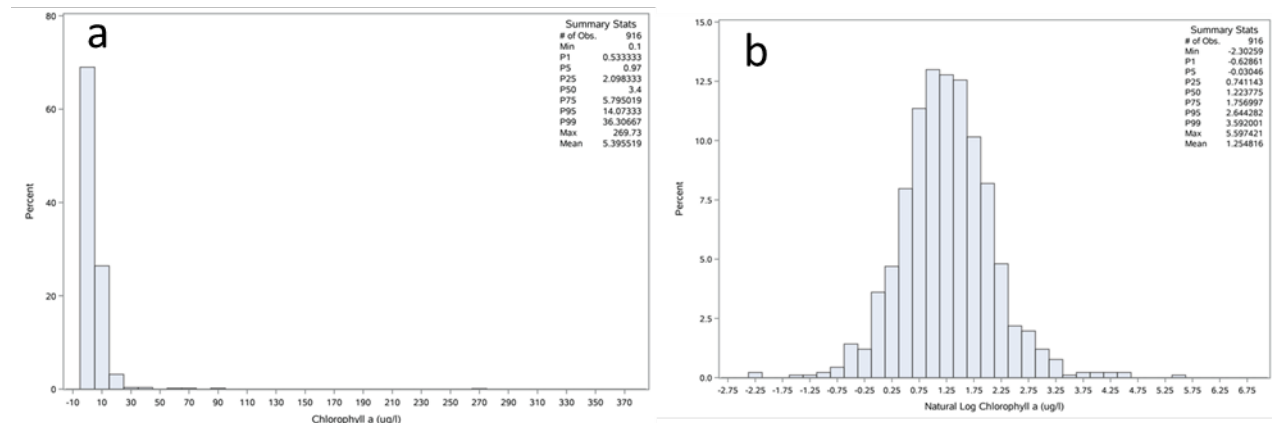


Figure 4-5. Distribution of chlorophyll a on the natural scale (a) and natural log scale (b).

The properties of the empirical distribution can be used to generate an extremely large dataset via monte-carlo simulation and that dataset can be used to evaluate the effects of changes in the exceedance frequency on the annual geometric average. The process involved the following steps:

- Generate the monte-carlo data pool using the properties of the empirical distribution
- Calculate percent exceedance under the existing condition (e.g, 45% exceedance)
- Generate a representative annual distribution for a given year (e.g. 40 samples) by selecting samples at random at the empirical exceedance frequency (i.e. 55% of the samples at or below the standard (3.9 ug/l) and 45% of the samples above the standard.
- For each replicate, calculate the AGM
- Repeat 1000 times

The results yield a distribution of simulated AGMs that represent the existing condition and the approach can be applied to any flow reduction scenario. For example, the final model results above yielded a risk difference of 6.3%. So to run the simulation for that scenario, 51.4% of the samples for each replicate would be selected from the distribution above 3.9 ug/l and 48.6% would be selected from the distribution of values 3.9 or below.

The simulation pool was constructed by using the distributional statistics for each site to generate independent distributions for each site within the system, which were then combined into a single large dataset. A sample size of 40 was chosen to represent an individual year for each replicate sample (i.e. quarterly samples from 10 sites). For each replicate, an AGM was calculated. The distribution of AGMs was then evaluated to define the increased risk of exceeding the standard under the critical flow management scenario identified above. The simulation was performed for the Inset stratum including sites 1 through 10. The empirical AGMs are shown in Figure 4-6a while the monthly flow timeseries is provided in Figure 4-6b. The horizontal reference line on the plot of AGMs denotes the NNC of 3.9 ug/l which was exceeded in several of the more recent years in the timeseries. This time period corresponded to a period of reduced flows in the Chassahowitzka relative to the long term record.

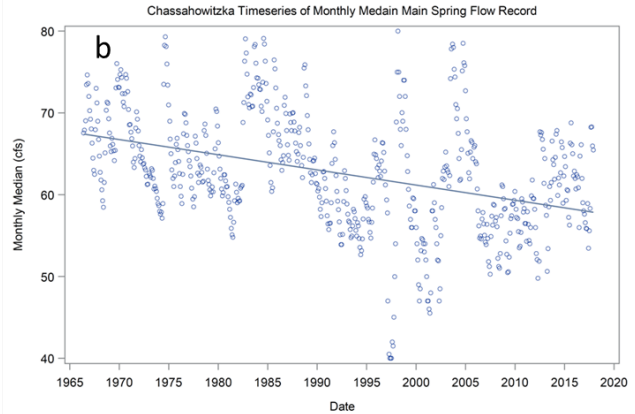
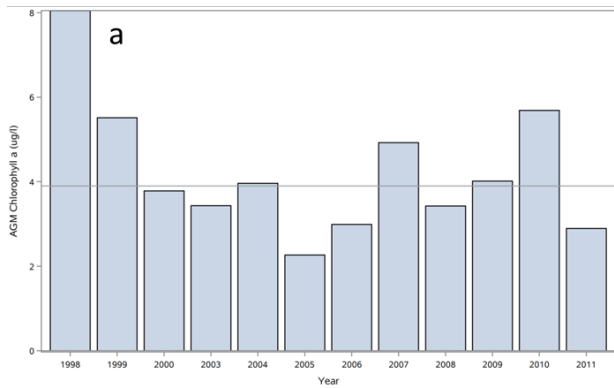


Figure 4-6. Annual geometric average chlorophyll a concentrations in the Chassahowitzka River above Rkm 4.9 based on the UF transect data (left) and flow timeseries for the Chassahowitzka River (right).

The overall geometric mean for this time period for the Inset stratum was 3.88 ug/l. The distribution of AGMs from the simulation of the existing condition is provided in Figure 4-7. The mean and median of this distribution are nearly identical at 3.8 ug/l and very close to the empirical distribution. The vertical reference line in Figure 4-7 indicates the 3.9 ug/l, and the simulated distribution exceeds the site-specific standard approximately 45% of the time. Adjusting the exceedance frequency of the individual samples to represent that in the critical flow scenario of 12% based on the BLUPs increases the expected exceedance frequency of individual samples from 45% percent to 51% (Figure 4-8a). However, because the criterion value of 3.9 is near the median of a (log) normal distribution, sliding the curve to the right results in a large increase in the proportion of AGMs over the criterion value of 3.9; from 45% to over 80% (Figure 4-8b).

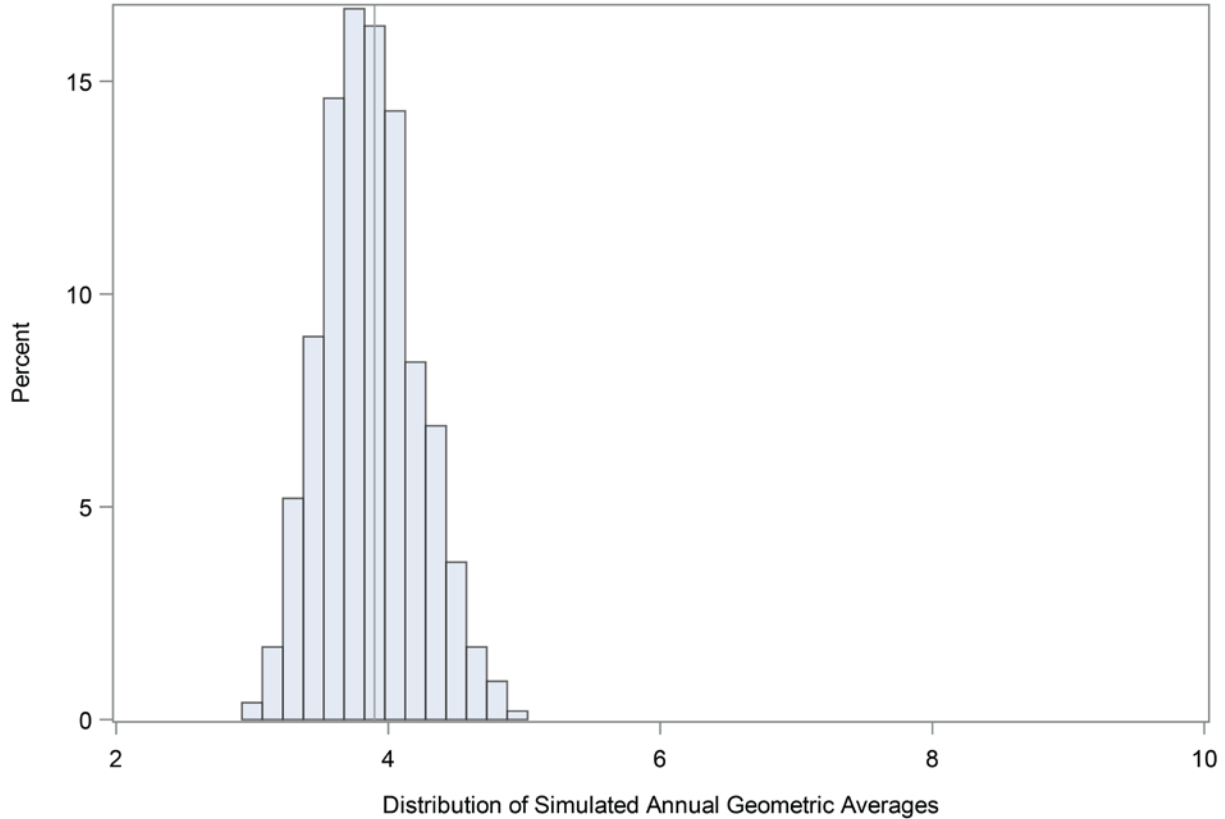


Figure 4-7. Distribution of simulated annual geometric averages for existing condition above Rkm 7 in the Chassahowitzka River. Vertical reference line is 3.9 ug/l.

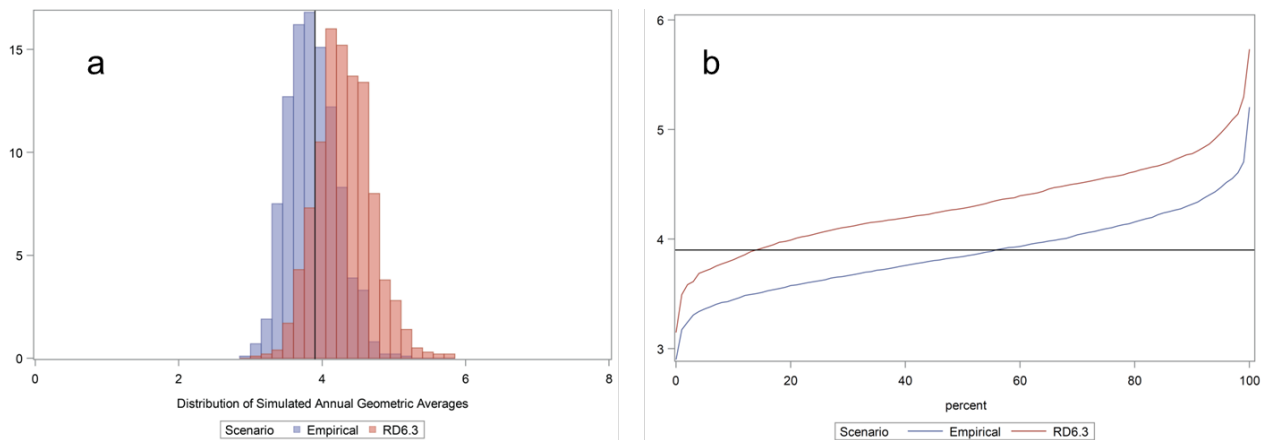


Figure 4-8. Distributions of simulated annual geometric average chlorophyll a concentrations for the existing and 6% flow reduction condition shown as a frequency histogram (a) and a cumulative distribution plot (b), both with 3.9 ug/l reference lines.

The results of this monte-carlo simulation illustrate how changes in the exceedance frequency as modeled for the flow reduction scenarios are related to the actual chlorophyll concentration distributions in the Chassahowitzka River. Increased exceedance frequencies of individual samples will increase the overall AGM value but without the monte-carlo approach it was

difficult to determine the magnitude to which the actual concentrations are changed. The results of this analysis suggest that, on average, the AGM would be expected to increase from 3.8 to 4.3 ug/l due to the 12% reduction scenario, equating to an estimated percent change in concentration of 13% in the AGM concentration, similar results to the change in exceedance frequency.

4.3 LIMITATIONS AND FUTURE RESEARCH

To date, phytoplankton distributions have not been previously used within the District as the principal determinant of minimum flows for District tidal rivers. Chlorophyll concentrations have been used to support the low-flow threshold established for the Lower Alafia River (Flannery et al. 2008) and have recently been used by the South Florida Water Management District in comparison to state water quality standards as one line of evidence in support the derivation of the revised minimum flow for the Caloosahatchee River Estuary (SFWMD 2018). While phytoplankton distributions are important indicators of riverine and estuarine condition they are notoriously difficult to model due to complex interactions between nutrient availability, light availability, and residence times. That being said, in recent years, Florida has experienced several high profile algae blooms including a protracted red tide event in 2018 and a blue green algae bloom that has affect Lake Okeechobee and its receiving waterbodies on both the east and west coasts. These blooms have attracted much media attention and raised awareness as to the potential negative effects of excessive algal production in both fresh and estuarine systems. In addition, the Chassahowitzka River has an established TMDL to reduce effects of increased nutrient loads to the system that has resulted in excessive primary production and nuisance algal mats in the upper part of the river. While data collected in the Chassahowitzka River have not indicated consequential negative impacts associated with phytoplankton bloom conditions, elevated chlorophyll concentrations that are indicative of bloom potential have been observed in the data.

The NNC threshold value used here was developed for a different section of the river. Therefore, the results presented here were not intended to be used as a direct assessment of whether or not changes in flow would result in compromises to the river's "Designated Use" as defined in State statute. Rather, the modeling effort was developed to illustrate the utility of this type of modeling to assess the sensitivity of phytoplankton (expressed here as chlorophyll a uncorrected for Phaeophytin) concentrations in the upper 4 kilometers of the river to changes in flows. The model results predict that flow reductions, especially in the spring season when flows tend towards their annual minimum, would increase the probability of exceeding a value of 3.9 ug/l. This is a novel model application in support of minimum flows and more research should be completed before this approach can be used in direct support of establishing minimum flows for the Chassahowitzka River. The location of the geographic boundary for evaluating water quality against regulatory criteria and the spatial distribution of chlorophyll in the system complicated the interpretation of the results of flow reduction scenarios, but despite these limitations, the results can be used to provide supporting information to other lines of evidence more directly applicable to the definition of significant harm.

The reported differences associated with the flow reduction scenarios are fairly small in terms of overall risk difference and it is unlikely that one could state with certainty that the reported differences represent statistically different conditions. Unfortunately, there is no standard way of evaluating the statistical certainty of the predictions when evaluating management scenarios such as this. However, it is important to consider that uncertainty exists in the predicted probabilities, and this uncertainty is not accounted for when evaluating the results of changes associated with the flow reduction scenarios. Several tributaries contribute flow and nutrients to the system which are unaccounted for by the flow records or the chlorophyll modeling efforts. Flow records for these sites are lacking long-term records and are presumed to covary with the long-term flow record developed for the minimum flows reevaluation. While these limitations are important to note, they do not obviate the need for protective limits to protect the system from degradation of water quality. The modeling effort has focused on the effects of flow and assumes that other factors that may affect the distribution of chlorophyll in the system are at a stable state for the flow reduction evaluations. In this sense, the results provide the best estimate of the effects of flow on the probability of exceeding the site-specific chlorophyll threshold as applied, but do not imply that there are no other factors that might also affect the distribution of phytoplankton in the system.

Future research should consider the utility of developing nitrate loadings from the head springs. Using nitrate loads as an explanatory variable would eliminate the potentially confounding effects of nutrient dynamics in the downstream portion of the river, and provide a truly independent variable for modeling chlorophyll concentrations. However, considerable additional effort would be required to develop the long-term timeseries of daily nitrate loads needed to simulate the effects of flow reductions on the chlorophyll a response. In addition, evaluating the efficacy of using the downstream, site-specific chlorophyll criterion value of 3.9 ug/l established for WBID 1361 as a management threshold for the entire upper portion of the river (above Rkm 5.9) should be considered. Currently, the WBID boundary bisects the peak of the spatial distribution of chlorophyll. This fact, combined with the fact that the upstream WBID does not have a site-specific chlorophyll threshold, results in a disconnect between the existing criterion and the system dynamics. Evaluating whether or not the current downstream criterion is applicable to upstream portion of the river, or developing an alternative criterion value to protect the upstream portion of the river, would result in a more site-specific protective standard for the portion of the river most affected by variation in spring discharge. There are also alternative modeling choices that could be made that consider the actual chlorophyll concentrations as a response variable; however, to apply those models to flow reduction scenarios associated with the development of minimum flows, an appropriate chlorophyll concentration would need to be developed based on an established threshold for significant harm.

5.0 RECOMMENDATIONS

This study has shown that chlorophyll concentrations are related to flows in the Chassahowitzka River System. Chlorophyll concentrations have not been previously used as a criterion for establishing minimum flows and the modeling approach summarized in this report is a novel approach that should be further investigated. Further research is needed to determine if the site-specific chlorophyll a threshold established for the downstream portion of the river is applicable to the entire upstream portion of the system, and for model validation. In the meantime, the results summarized in this report support consideration of water quality as part of the environmental values assessment associated with reevaluation of the minimum flow established for the Chassahowitzka River System.

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APPENDIX A

Florida Department of Environmental Protection

Qualifier Codes

Code	Description
A	Value reported is the arithmetic mean (average) of two or more determinations. This code shall be used if the reported value is the average of results for two or more discrete and separate samples. These samples shall have been processed and analyzed independently. Do not use this code if the data are the result of replicate analysis on the same sample aliquot, extract or digestate.
B	Results based upon colony counts outside the acceptable range. This code applies to microbiological tests and specifically to membrane filter colony counts. The code is to be used if the colony count is generated from a plate in which the total number of coliform colonies is outside the method indicated ideal range. This code is not to be used if a 100 mL sample has been filtered and the colony count is less than the lower value of the ideal range.
F	When reporting species: F indicates the female sex.
H	Value based on field kit determination; results may not be accurate. This code shall be used if a field screening test (i.e., field gas chromatograph data, immunoassay, vendor-supplied field kit, etc.) was used to generate the value and the field kit or method has not been recognized by the Department as equivalent to laboratory methods.
I	The reported value is greater than or equal to the laboratory method detection limit but less than the laboratory practical quantitation limit.
J	Estimated value. A 'J' value shall be accompanied by a detailed explanation to justify the reason(s) for designating the value as estimated. Where possible, the organization shall report whether the actual value is estimated to be less than or greater than the reported value. A "J" value shall not be used as a substitute for K, L, M, T, V, or Y, however, if additional reasons exist for identifying the value as an estimate (e.g., matrix spiked failed to meet acceptance criteria), the "J" code may be added to a K, L, M, T, V, or Y. Examples of situations in which a "J" code must be reported include: instances where a quality control item associated with the reported value failed to meet the established quality control criteria (the specific failure must be identified); instances when the sample matrix interfered with the ability to make any accurate determination; instances when data are questionable because of improper laboratory or field protocols (e.g., composite sample was collected instead of a grab sample); instances when the analyte was detected at or above the method detection limit in a blank other than the method blank (such as calibration blank or field-generated blanks and the value of 10 times the blank value was equal to or greater than the associated sample value); or instances when the field or laboratory calibrations or calibration verifications did not meet calibration acceptance criteria.
K	Off-scale low. Actual value is known to be less than the value given. This code shall be used if: 1. The value is less than the lowest calibration standard and the calibration curve is known to be non-linear; or 2. The value is known to be less than the reported value based on sample size, dilution. This code shall not be used to report values that are less than the laboratory practical quantitation limit or laboratory method detection limit.
L	Off-scale high. Actual value is known to be greater than value given. To be used when the concentration of the analyte is above the acceptable level for quantitation (exceeds the linear range or highest calibration standard) and the calibration curve is known to exhibit a negative deflection.
M	When reporting chemical analyses: presence of material is verified but not quantified; the actual value is less than the value given. The reported value shall be the laboratory practical quantitation limit. This code shall be used if the level is too low to permit

Code	Description
	accurate quantification, but the estimated concentration is greater than or equal to the method detection limit. If the value is less than the method detection limit use "T" below.
N	Presumptive evidence of presence of material. This qualifier shall be used if: 1. The component has been tentatively identified based on mass spectral library search; or 2. There is an indication that the analyte is present, but quality control requirements for confirmation were not met (i.e., presence of analyte was not confirmed by alternative procedures).
O	Sampled, but analysis lost or not performed.
Q	Sample held beyond the accepted holding time. This code shall be used if the value is derived from a sample that was prepared or analyzed after the approved holding time restrictions for sample preparation or analysis.
T	Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only and shall not be used in statistical analysis.
U	Indicates that the compound was analyzed for but not detected. This symbol shall be used to indicate that the specified component was not detected. The value associated with the qualifier shall be the laboratory method detection limit. Unless requested by the client, less than the method detection limit values shall not be reported (see "T" above).
V	Indicates that the analyte was detected at or above the method detection limit in both the sample and the associated method blank and the value of 10 times the blank value was equal to or greater than the associated sample value. Note: unless specified by the method, the value in the blank shall not be subtracted from associated samples.
Y	The laboratory analysis was from an improperly preserved sample. The data may not be accurate.
Z	Too many colonies were present for accurate counting. Historically, this condition has been reported as "too numerous to count" (TNTC). The "Z" qualifier code shall be reported when the total number of colonies of all types is more than 200 in all dilutions of the sample. When applicable to the observed test results, a numeric value for the colony count for the microorganism tested shall be estimated from the highest dilution factor (smallest sample volume) used for the test and reported with the qualifier code.
?	Data are rejected and should not be used. Some or all of the quality control data for the analyte were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
*	Not reported due to interference.
D	Measurement was made in the field (i.e., in situ). This code applies to any value (except field measurements of pH, specific conductance, dissolved oxygen, temperature, total residual chlorine, transparency, turbidity or salinity) that was obtained under field conditions using approved analytical methods. If the parameter code specifies a field measurement (e.g., "Field pH"), this code is not required.
E	Indicates that extra samples were taken at composite stations.
R	Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of 1/2 inch within the past 48 hours.) This code shall be used when the rainfall might contribute to a lower than normal value.
!	Data deviate from historically established concentration ranges.
G	A 'G' qualified sample value indicates that the analyte was detected at or above the method detection limit in both the sample and the associated field blank, equipment blank, or trip blank, and the blank value was greater than 10% of the associated sample value. The value in the blank shall not be subtracted from associated samples.

APPENDIX B

Descriptive Plots and Statistics for Each Water Quality Constituent Assessed

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Time Series Plots	615
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COAST - Chassahowitzka Citrus 1	667
Univariate Statistics	668
Time Series Plots	701
Monthly Box and Whisker Plots	712
COAST - Chassahowitzka Citrus 2	723
Univariate Statistics	724
Time Series Plots	760
Monthly Box and Whisker Plots	772
COAST - Chassahowitzka Citrus 3	784
Univariate Statistics	785
Time Series Plots	821
Monthly Box and Whisker Plots	833
COAST - Chassahowitzka Hernando 4	845
Univariate Statistics	846
Time Series Plots	888
Monthly Box and Whisker Plots	902
COAST - Chassahowitzka Hernando 5	916
Univariate Statistics	917
Time Series Plots	959
Monthly Box and Whisker Plots	973
COAST - Chassahowitzka Hernando 6	987
Univariate Statistics	988
Time Series Plots	1030
Monthly Box and Whisker Plots	1044

COAST - Chassahowitzka Hernando 7	1058
Univariate Statistics	1059
Time Series Plots	1101
Monthly Box and Whisker Plots	1115
COAST - Chassahowitzka Hernando 8	1129
Univariate Statistics	1130
Time Series Plots	1169
Monthly Box and Whisker Plots	1182
COAST - Chassahowitzka Hernando 9	1195
Univariate Statistics	1196
Time Series Plots	1238
Monthly Box and Whisker Plots	1252
COAST - Chassahowitzka Citrus 10	1266
Univariate Statistics	1267
Time Series Plots	1309
Monthly Box and Whisker Plots	1323
Springs Data - Crab Creek Spring	1337
Univariate Statistics	1340
Time Series Plots	1427
Monthly Box and Whisker Plots	1456
Springs Data - Betee Jay Spring	1485
Univariate Statistics	1487
Time Series Plots	1595
Monthly Box and Whisker Plots	1631
Springs Data - Blue Run Spring	1667
Univariate Statistics	1670
Time Series Plots	1739
Monthly Box and Whisker Plots	1762
Springs Data - Baird Spring	1785
Univariate Statistics	1787
Time Series Plots	1874
Monthly Box and Whisker Plots	1903
Springs Data - Chassahowitzka Main Spring	1932
Univariate Statistics	1941
Time Series Plots	2079
Monthly Box and Whisker Plots	2125
Springs Data - Chassahowitzka 1 Spring	2171
Univariate Statistics	2180
Time Series Plots	2303
Monthly Box and Whisker Plots	2344
Springs Data - Ruth Spring	2385
Univariate Statistics	2388
Time Series Plots	2475
Monthly Box and Whisker Plots	2504
MFL Monitoring - Chassahowitzka Crab Creek	2533
Univariate Statistics	2534
Time Series Plots	2540
Monthly Box and Whisker Plots	2542

MFL Monitoring - Chassahowitzka Potter Creek	2544
Univariate Statistics	2545
Time Series Plots	2566
Monthly Box and Whisker Plots	2573
MFL Monitoring - Chassahowitzka Crawford Creek	2580
Univariate Statistics	2581
Time Series Plots	2599
Monthly Box and Whisker Plots	2605
CR Grab - Chassahowitzka River Near Mouth	2611
CR Grab - Chassahowitzka River Near USGS Gauge	2612
Univariate Statistics	2613
Time Series Plots	2631
Monthly Box and Whisker Plots	2637
Inactive - Chassahowitzka Canal 2 Site 2	2643
Inactive - Chassahowitzka River 4 WQ	2644
Inactive - Chassahowitzka Citrus 1	2645
Univariate Statistics	2646
Time Series Plots	2679
Monthly Box and Whisker Plots	2690
Inactive - Chassahowitzka Main 4	2701
Inactive - Chassahowitzka Citrus 2	2702
Univariate Statistics	2703
Time Series Plots	2739
Monthly Box and Whisker Plots	2751
Inactive - Chassahowitzka River AB Gulf	2763
Univariate Statistics	2765
Time Series Plots	2855
Monthly Box and Whisker Plots	2885
Inactive - Baird Chassahowitzka 5	2915
Inactive - Chassahowitzka River 1 WQ	2916
Inactive - Chassahowitzka River 3 WQ	2917
Inactive - Chassahowitzka Citrus 3	2918
Univariate Statistics	2919
Time Series Plots	2955
Monthly Box and Whisker Plots	2967
Inactive - Ryle Creek Spring	2979
Inactive - Chassahowitzka 2 Spring	2980
Inactive - Chassahowitzka Canal 1 Site 3	2981
Inactive - Chassahowitzka River 2 WQ	2982
Inactive - Chassahowitzka River 6 WQ	2983
Inactive - Chassahowitzka River 5 WQ	2984
Inactive - Chassahowitzka Main 1	2985
Inactive - Chassahowitzka River 300 Ft BL Crab Creek	2986
Univariate Statistics	2987
Time Series Plots	2990
Monthly Box and Whisker Plots	2991
Inactive - HRS 19A Zollinger FLDN	2992
Univariate Statistics	2994

Time Series Plots	3018
Monthly Box and Whisker Plots	3026
Inactive - Chassahowitzka River 7 WQ	3034
Inactive - Potter Creek Spring	3035
Inactive - Chassahowitzka Bounty Court	3036
UF 5 Rivers Study - Transect 1	3037
Univariate Statistics	3038
Time Series Plots	3083
Monthly Box and Whisker Plots	3098
UF 5 Rivers Study - Transect 2	3113
Univariate Statistics	3114
Time Series Plots	3159
Monthly Box and Whisker Plots	3174
UF 5 Rivers Study - Transect 3	3189
Univariate Statistics	3190
Time Series Plots	3235
Monthly Box and Whisker Plots	3250
UF 5 Rivers Study - Transect 4	3265
Univariate Statistics	3266
Time Series Plots	3311
Monthly Box and Whisker Plots	3326
UF 5 Rivers Study - Transect 5	3341
Univariate Statistics	3342
Time Series Plots	3387
Monthly Box and Whisker Plots	3402
UF 5 Rivers Study - Transect 6	3417
Univariate Statistics	3418
Time Series Plots	3463
Monthly Box and Whisker Plots	3478
UF 5 Rivers Study - Transect 7	3493
Univariate Statistics	3494
Time Series Plots	3539
Monthly Box and Whisker Plots	3554
UF 5 Rivers Study - Transect 8	3569
Univariate Statistics	3570
Time Series Plots	3615
Monthly Box and Whisker Plots	3630
UF 5 Rivers Study - Transect 9	3645
Univariate Statistics	3646
Time Series Plots	3691
Monthly Box and Whisker Plots	3706
UF 5 Rivers Study - Transect 10	3721
Univariate Statistics	3722
Time Series Plots	3767
Monthly Box and Whisker Plots	3782
UF 5 Rivers Study - Transect 11	3797
Univariate Statistics	3798
Time Series Plots	3843

Monthly Box and Whisker Plots	3858
UF 5 Rivers Study - Transect 12	3873
Univariate Statistics	3874
Time Series Plots	3919
Monthly Box and Whisker Plots	3934
UF 5 Rivers Study - Transect 13	3949
Univariate Statistics	3950
Time Series Plots	3995
Monthly Box and Whisker Plots	4010
UF 5 Rivers Study - Transect 14	4025
Univariate Statistics	4026
Time Series Plots	4071
Monthly Box and Whisker Plots	4086
UF 5 Rivers Study - Transect 15	4101
Univariate Statistics	4102
Time Series Plots	4147
Monthly Box and Whisker Plots	4162
UF 5 Rivers Study - Transect 16	4177
Univariate Statistics	4178
Time Series Plots	4223
Monthly Box and Whisker Plots	4238
UF 5 Rivers Study - Transect 17	4253
Univariate Statistics	4254
Time Series Plots	4299
Monthly Box and Whisker Plots	4314
UF 5 Rivers Study - Transect 18	4329
Univariate Statistics	4330
Time Series Plots	4375
Monthly Box and Whisker Plots	4390
UF 5 Rivers Study - Transect 19	4405
Univariate Statistics	4406
Time Series Plots	4451
Monthly Box and Whisker Plots	4466
UF 5 Rivers Study - Transect 20	4481
Univariate Statistics	4482
Time Series Plots	4527
Monthly Box and Whisker Plots	4542
Continuous Recorder - Chass Near Mouth	4557
Univariate Statistics	4558
Time Series Plots	4612
Monthly Box and Whisker Plots	4630
Continuous Recorder - Chass Near USGS Gage	4648
Univariate Statistics	4649
Time Series Plots	4703
Monthly Box and Whisker Plots	4721
Continuous Recorder - Daily	4739
Univariate Statistics	4740
Time Series Plots	4758

Monthly Box and Whisker Plots	4764
Continuous Recorder - Hourly	4770
Univariate Statistics	4771
Time Series Plots	4801
Monthly Box and Whisker Plots	4811

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT2005	JUL2017	64	9.4%	0.0%	1.6%
Biological Oxygen Demand (Total)	mg/L	NOV2016	JUL2017	4	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT2010	JUL2017	35	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT2010	JAN2017	26	7.7%	0.0%	3.8%
Chlorophyll a (Total)	ug/L	OCT2005	JUL2017	67	10.4%	0.0%	3.0%
Chlorophyll b (Total)	ug/L	FEB2006	APR2006	2	0.0%	0.0%	0.0%
Chlorophyll c (Total)	ug/L	OCT2005	APR2006	3	0.0%	0.0%	0.0%
Cobalt (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	OCT2006	JUN2009	17	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	DEC2005	JUL2017	63	6.3%	0.0%	3.2%
Copper (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Depth (Total)	Meters	AUG2008	JUL2017	47	0.0%	0.0%	4.3%
Depth, bottom (Total)	Meters	AUG2007	JUL2017	50	4.0%	0.0%	2.0%
Dissolved Oxygen (Total)	mg/L	FEB2006	JUL2017	62	4.8%	0.0%	1.6%
Iron (Dissolved)	ug/L	DEC2008	JUL2017	45	6.7%	0.0%	2.2%
Magnesium (Dissolved)	mg/L	OCT2010	JUL2017	35	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Molybdenum (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	OCT2005	JUL2017	63	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	DEC2005	JUL2017	63	12.7%	0.0%	1.6%
Nitrogen- Total (Total)	mg/L	DEC2005	JUL2017	65	0.0%	0.0%	1.5%
Nitrogen- Total Kjeldahl (Total)	mg/L	NOV2016	JUL2017	4	0.0%	0.0%	0.0%
Nitrogen15/Nitrogen14 Isotope Ratio	per mil	APR1995	APR2000	3	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT2005	JUL2017	64	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	OCT2005	JUL2017	63	20.6%	0.0%	4.8%
Phosphorus- Total (Total)	mg/L	OCT2005	JUL2017	64	4.7%	0.0%	1.6%
Potassium (Dissolved)	mg/L	OCT2010	JUL2017	35	2.9%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT2005	JUL2017	63	3.2%	0.0%	1.6%
Residues- Volatile (Total)	mg/L	DEC2005	JUL2017	64	6.3%	0.0%	0.0%
Salinity (Total)	ppth	AUG2008	JUL2017	47	4.3%	0.0%	2.1%
Secchi-horizontal (Total)	Meters	FEB2006	JUL2017	52	0.0%	0.0%	0.0%
Secchi-vertical (Total)	Meters	APR2010	JUL2017	7	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	OCT2010	JUL2017	35	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Specific Conductance (Total)	uS/cm	FEB2006	JUL2017	62	4.8%	0.0%	1.6%
Temperature (Total)	Deg. C	FEB2006	JUL2017	62	3.2%	0.0%	0.0%
Total depth at monitored location	Meters	FEB2006	JUN2007	7	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	DEC2005	JUL2017	63	0.0%	0.0%	0.0%
Uranium (234/238) Isotope Ratio	Ratio	APR1995	APR1995	1	0.0%	0.0%	100.0%
Uranium (Total)	ug/L	APR1995	APR1995	1	0.0%	0.0%	100.0%
Zinc (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
pH (Total)	SU	FEB2006	JUL2017	62	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	64	Sum Weights	64
Mean	0.00995781	Sum Observations	0.6373
Std Deviation	0.00419784	Variance	0.00001762
Skewness	1.55972109	Kurtosis	3.4741376
Uncorrected SS	0.00745629	Corrected SS	0.00111018
Coeff Variation	42.1562252	Std Error Mean	0.00052473

Basic Statistical Measures			
Location		Variability	
Mean	0.009958	Std Deviation	0.00420
Median	0.010000	Variance	0.0000176
Mode	0.010000	Range	0.02100
		Interquartile Range	0.00250

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.97703	Pr > t 	<.0001
Sign	M	32	Pr >= M 	<.0001
Signed Rank	S	1040	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0260
99%	0.0260
95%	0.0180
90%	0.0160
75% Q3	0.0100
50% Median	0.0100
25% Q1	0.0075
10%	0.0050
5%	0.0050
1%	0.0050
0% Min	0.0050

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

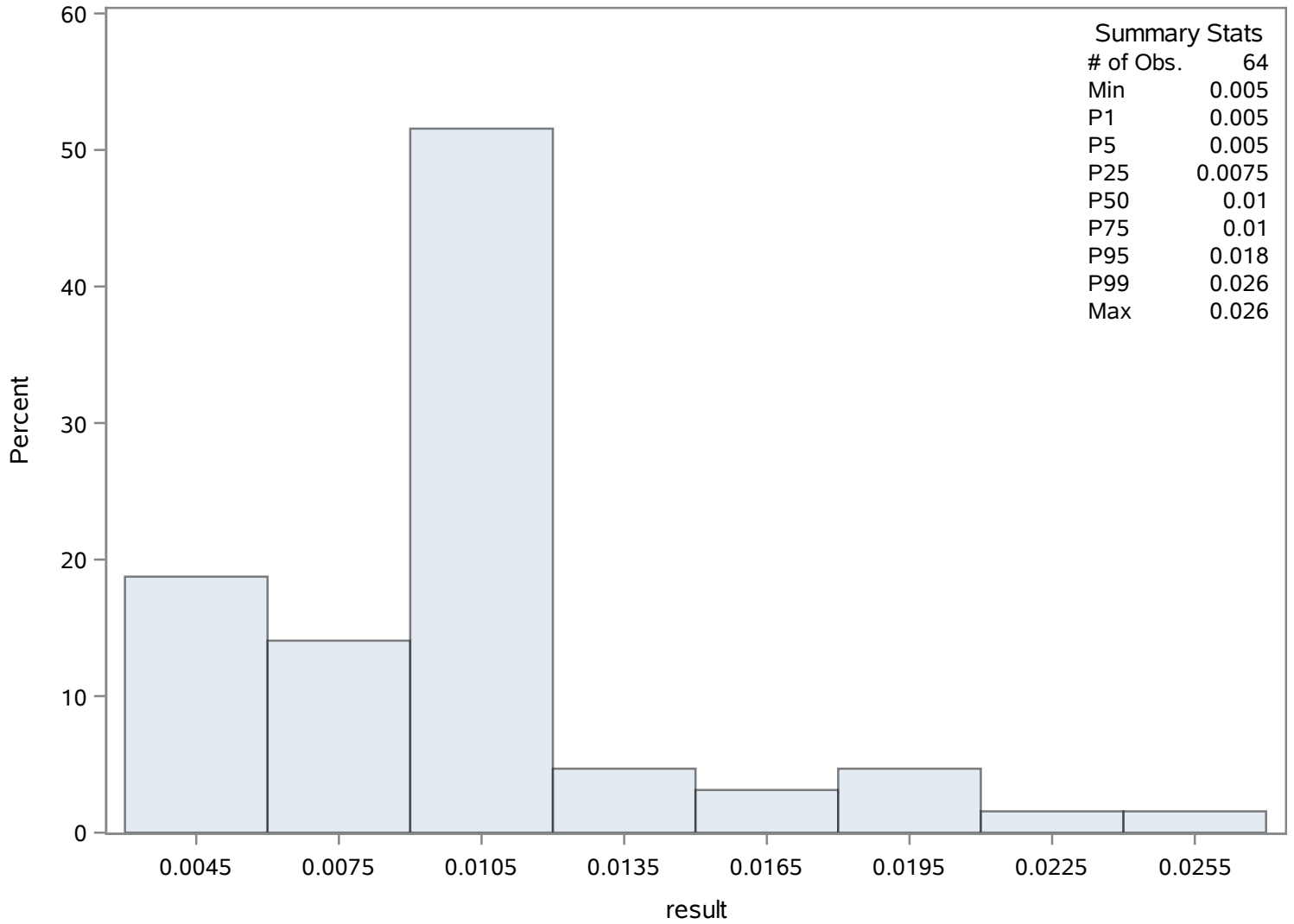
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	21	0.018	53
0.005	20	0.018	56
0.005	15	0.020	5
0.005	14	0.022	22
0.005	13	0.026	18

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	66.7485714	Sum Observations	2336.2
Std Deviation	9.71930678	Variance	94.4649244
Skewness	1.01533284	Kurtosis	0.25880202
Uncorrected SS	159149.82	Corrected SS	3211.80743
Coeff Variation	14.5610709	Std Error Mean	1.6428627

Basic Statistical Measures			
Location		Variability	
Mean	66.74857	Std Deviation	9.71931
Median	64.00000	Variance	94.46492
Mode	.	Range	35.60000
		Interquartile Range	12.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	40.62943	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	90.0
99%	90.0
95%	87.4
90%	86.2
75% Q3	71.6
50% Median	64.0
25% Q1	59.3
10%	56.8
5%	55.6
1%	54.4
0% Min	54.4

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

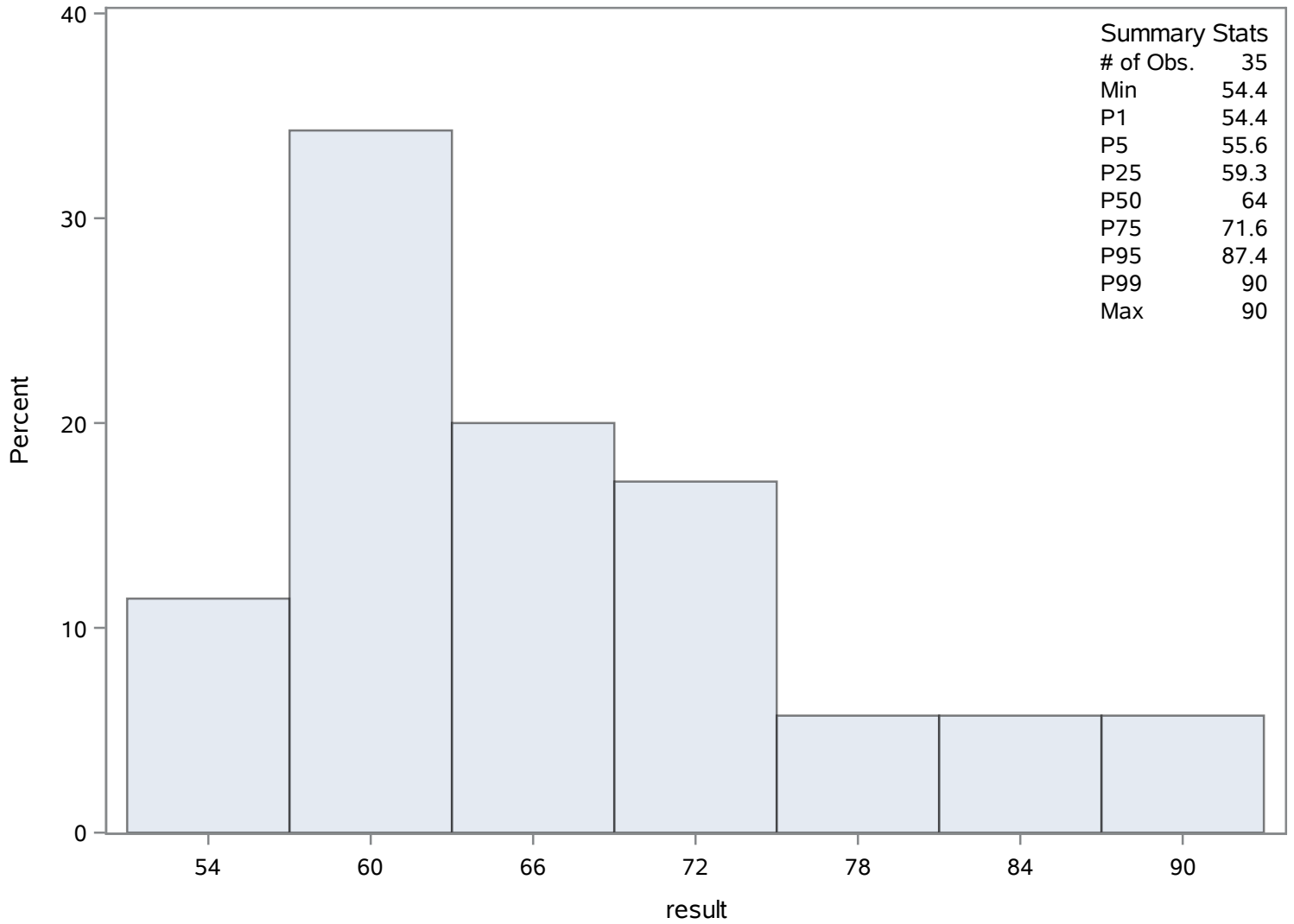
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.4	73	78.2	95
55.6	78	86.2	71
56.0	85	86.5	97
56.8	89	87.4	96
57.3	86	90.0	68

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	26	Sum Weights	26
Mean	0.94192308	Sum Observations	24.49
Std Deviation	1.12004293	Variance	1.25449615
Skewness	3.27990797	Kurtosis	11.8614981
Uncorrected SS	54.4301	Corrected SS	31.3624038
Coeff Variation	118.910233	Std Error Mean	0.21965849

Basic Statistical Measures			
Location		Variability	
Mean	0.941923	Std Deviation	1.12004
Median	0.545000	Variance	1.25450
Mode	0.330000	Range	5.24000
		Interquartile Range	0.52000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.288125	Pr > t 	0.0002
Sign	M	13	Pr >= M 	<.0001
Signed Rank	S	175.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.540
99%	5.540
95%	3.140
90%	1.710
75% Q3	0.910
50% Median	0.545
25% Q1	0.390
10%	0.330
5%	0.320

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

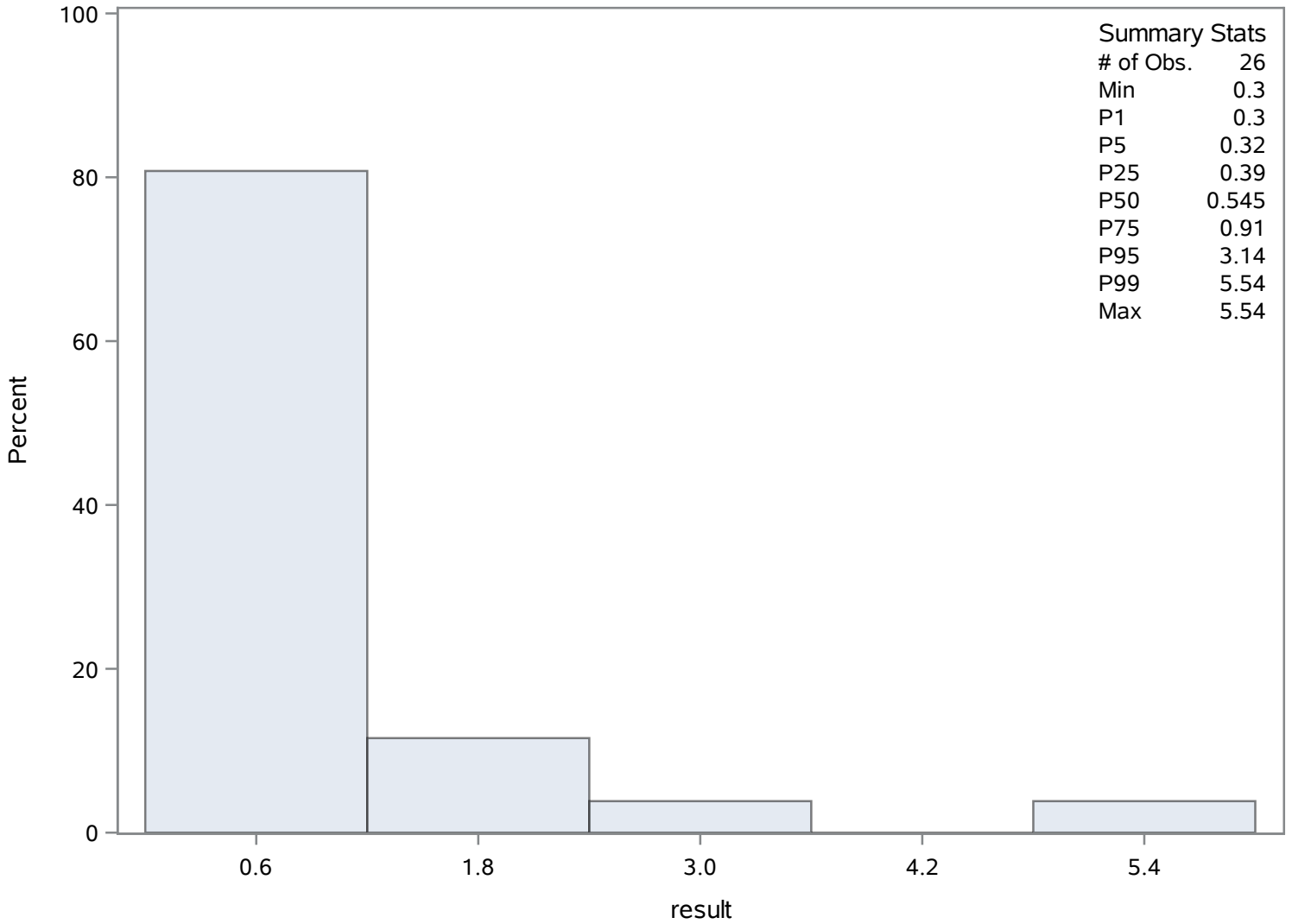
Quantiles (Definition 5)	
Level	Quantile
1%	0.300
0% Min	0.300

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	110	1.46	111
0.32	101	1.47	120
0.33	119	1.71	117
0.33	118	3.14	107
0.36	115	5.54	116

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	1.55955224	Sum Observations	104.49
Std Deviation	1.3569199	Variance	1.84123161
Skewness	3.97731209	Kurtosis	17.4294289
Uncorrected SS	284.4789	Corrected SS	121.521287
Coeff Variation	87.0070182	Std Error Mean	0.16577415

Basic Statistical Measures			
Location		Variability	
Mean	1.559552	Std Deviation	1.35692
Median	1.000000	Variance	1.84123
Mode	1.000000	Range	7.49000
		Interquartile Range	0.55000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.407693	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.49
99%	8.49
95%	3.67
90%	2.72
75% Q3	1.55
50% Median	1.00
25% Q1	1.00
10%	1.00
5%	1.00
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

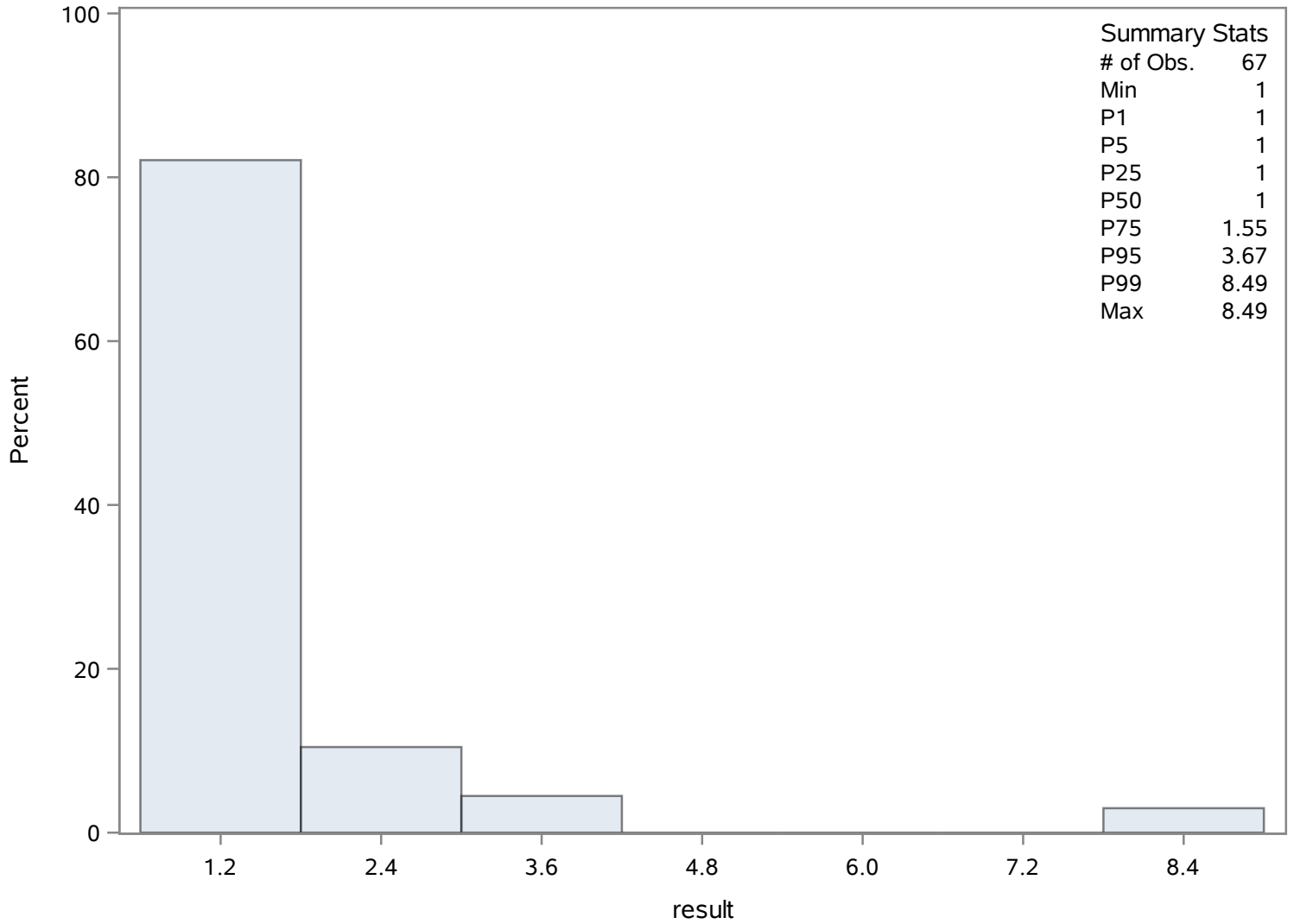
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	190	3.27	162
1	189	3.67	191
1	188	3.87	153
1	187	8.10	145
1	186	8.49	156

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	5.44285714	Sum Observations	342.9
Std Deviation	6.3598974	Variance	40.4482949
Skewness	4.1660325	Kurtosis	21.645619
Uncorrected SS	4374.15	Corrected SS	2507.79429
Coeff Variation	116.848509	Std Error Mean	0.80127176

Basic Statistical Measures			
Location		Variability	
Mean	5.442857	Std Deviation	6.35990
Median	3.500000	Variance	40.44829
Mode	5.000000	Range	42.40000
		Interquartile Range	2.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.792773	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	43.4
99%	43.4
95%	11.6
90%	10.0
75% Q3	5.0
50% Median	3.5
25% Q1	2.5
10%	1.4
5%	1.2
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

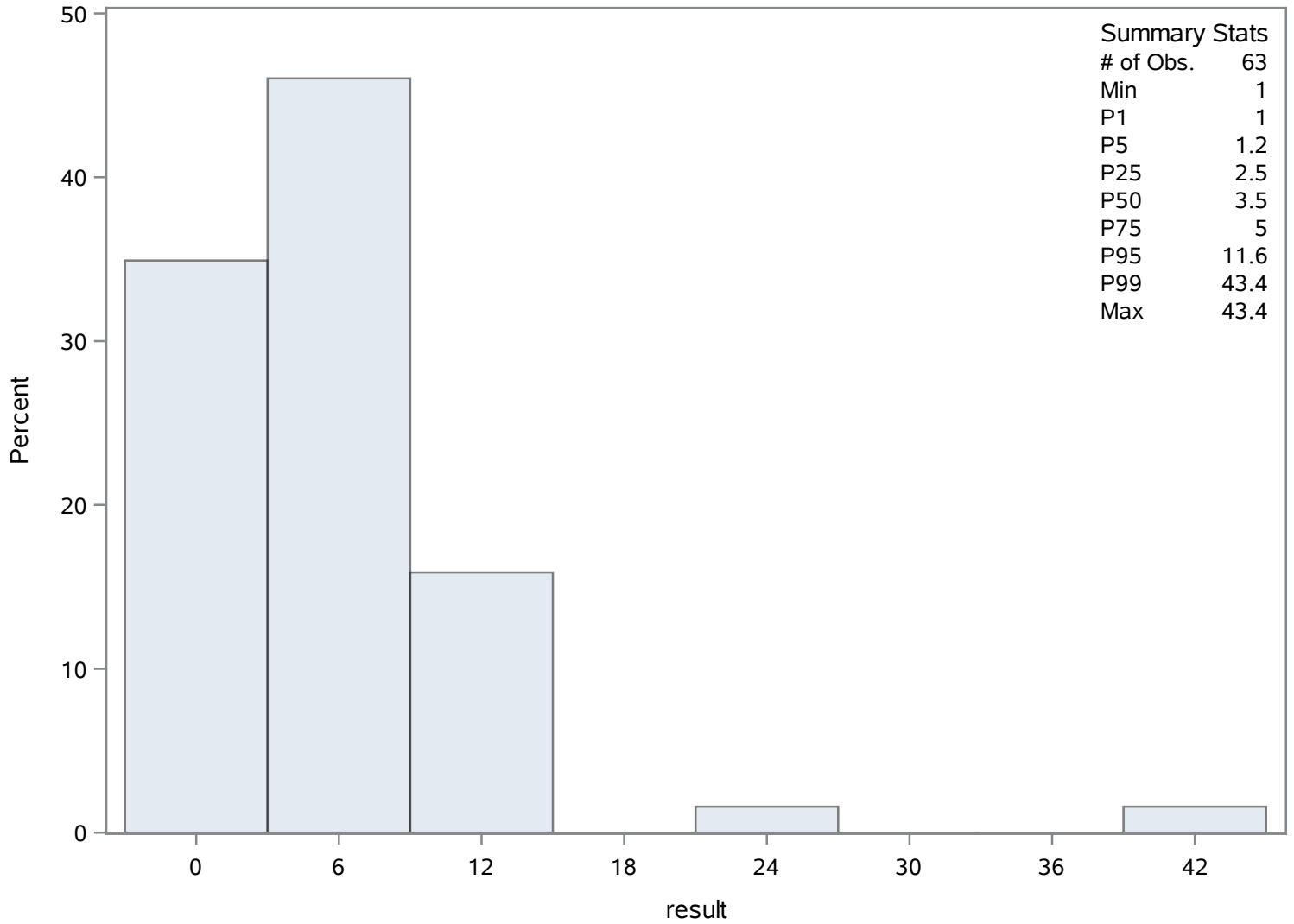
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	250	10.0	210
1.1	233	11.6	241
1.2	231	14.0	238
1.2	224	26.4	228
1.3	239	43.4	237

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0
Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	47	Sum Weights	47
Mean	0.54978723	Sum Observations	25.84
Std Deviation	0.22923777	Variance	0.05254995
Skewness	4.50995419	Kurtosis	21.3667873
Uncorrected SS	16.6238	Corrected SS	2.41729787
Coeff Variation	41.6957238	Std Error Mean	0.03343776

Basic Statistical Measures			
Location		Variability	
Mean	0.549787	Std Deviation	0.22924
Median	0.500000	Variance	0.05255
Mode	0.500000	Range	1.40000
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.4421	Pr > t 	<.0001
Sign	M	23.5	Pr >= M 	<.0001
Signed Rank	S	564	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.80
99%	1.80
95%	1.00
90%	0.50
75% Q3	0.50
50% Median	0.50
25% Q1	0.50
10%	0.50
5%	0.45
1%	0.40
0% Min	0.40

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

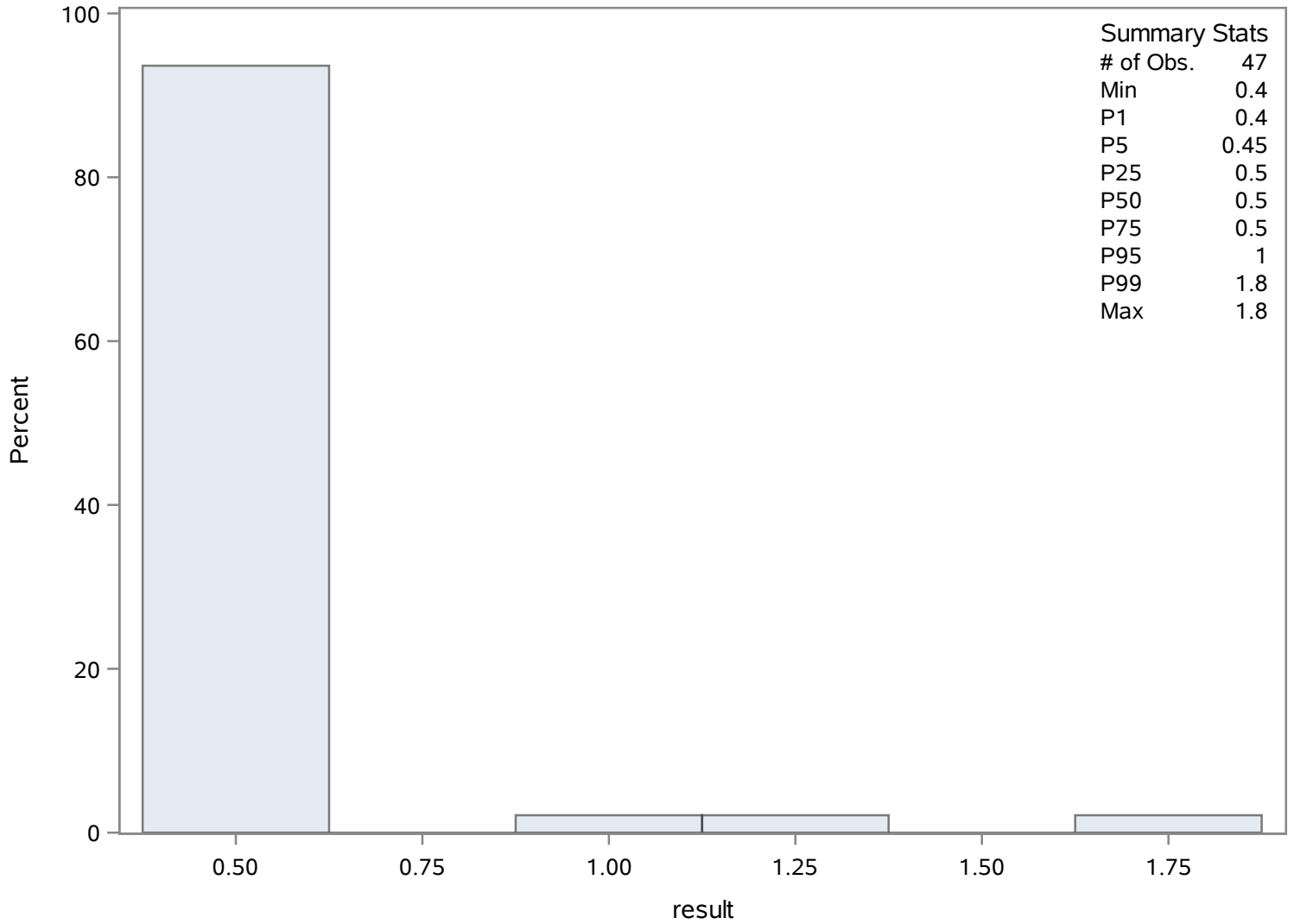
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	296	0.50	300
0.44	293	0.50	301
0.45	279	1.00	302
0.49	265	1.26	299
0.50	301	1.80	267

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	50	Sum Weights	50
Mean	1.41392	Sum Observations	70.696
Std Deviation	0.64964743	Variance	0.42204179
Skewness	3.1433913	Kurtosis	14.4646016
Uncorrected SS	120.638536	Corrected SS	20.6800477
Coeff Variation	45.9465482	Std Error Mean	0.09187402

Basic Statistical Measures			
Location		Variability	
Mean	1.413920	Std Deviation	0.64965
Median	1.330000	Variance	0.42204
Mode	1.000000	Range	4.00000
		Interquartile Range	0.58000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.38977	Pr > t 	<.0001
Sign	M	25	Pr >= M 	<.0001
Signed Rank	S	637.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.800
99%	4.800
95%	2.300
90%	2.000
75% Q3	1.580
50% Median	1.330
25% Q1	1.000
10%	0.885
5%	0.830
1%	0.800
0% Min	0.800

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth, bottom (Total) Meters

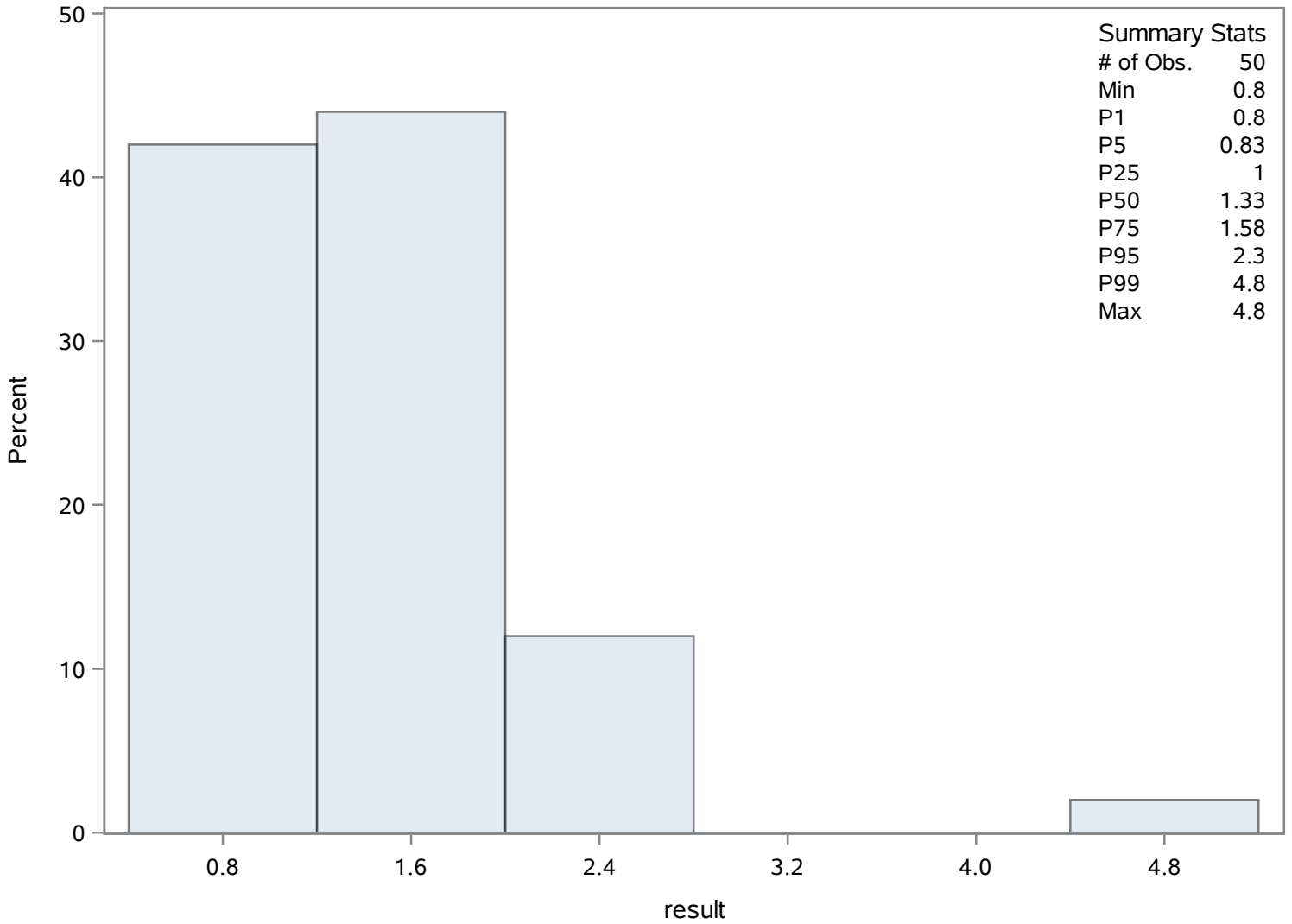
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.800	348	2.00	339
0.806	305	2.28	349
0.830	312	2.30	319
0.850	310	2.63	347
0.880	345	4.80	330

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth, bottom (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	6.05016129	Sum Observations	375.11
Std Deviation	1.0952004	Variance	1.19946391
Skewness	1.77781655	Kurtosis	7.80042217
Uncorrected SS	2342.6433	Corrected SS	73.1672984
Coeff Variation	18.1020033	Std Error Mean	0.13909059

Basic Statistical Measures			
Location		Variability	
Mean	6.050161	Std Deviation	1.09520
Median	5.915000	Variance	1.19946
Mode	6.100000	Range	8.03000
		Interquartile Range	0.92000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	43.49799	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.140
99%	11.140
95%	7.920
90%	6.710
75% Q3	6.420
50% Median	5.915
25% Q1	5.500
10%	5.040
5%	4.810
1%	3.110
0% Min	3.110

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Dissolved Oxygen (Total) mg/L

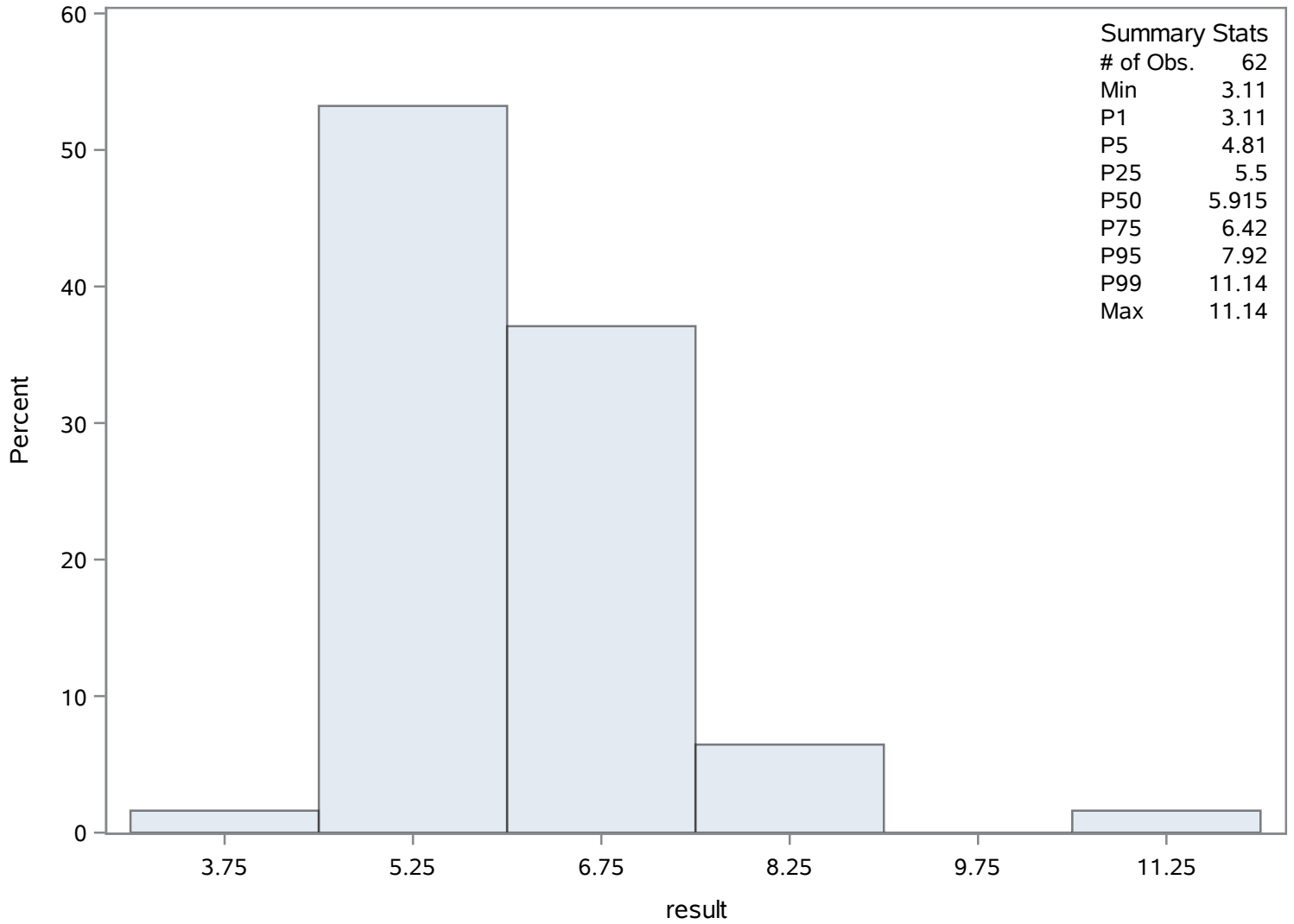
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.11	368	7.68	377
4.69	414	7.92	372
4.71	413	8.18	403
4.81	379	8.91	387
4.89	375	11.14	393

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	8.14644444	Sum Observations	366.59
Std Deviation	5.63821263	Variance	31.7894416
Skewness	2.12253558	Kurtosis	5.6515744
Uncorrected SS	4385.1405	Corrected SS	1398.73543
Coeff Variation	69.2107172	Std Error Mean	0.84049511

Basic Statistical Measures			
Location		Variability	
Mean	8.146444	Std Deviation	5.63821
Median	5.790000	Variance	31.78944
Mode	5.600000	Range	28.60000
		Interquartile Range	3.85000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.692435	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.10
99%	31.10
95%	19.20
90%	16.80
75% Q3	9.34
50% Median	5.79
25% Q1	5.49
10%	2.83
5%	2.50
1%	2.50
0% Min	2.50

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Iron (Dissolved) ug/L

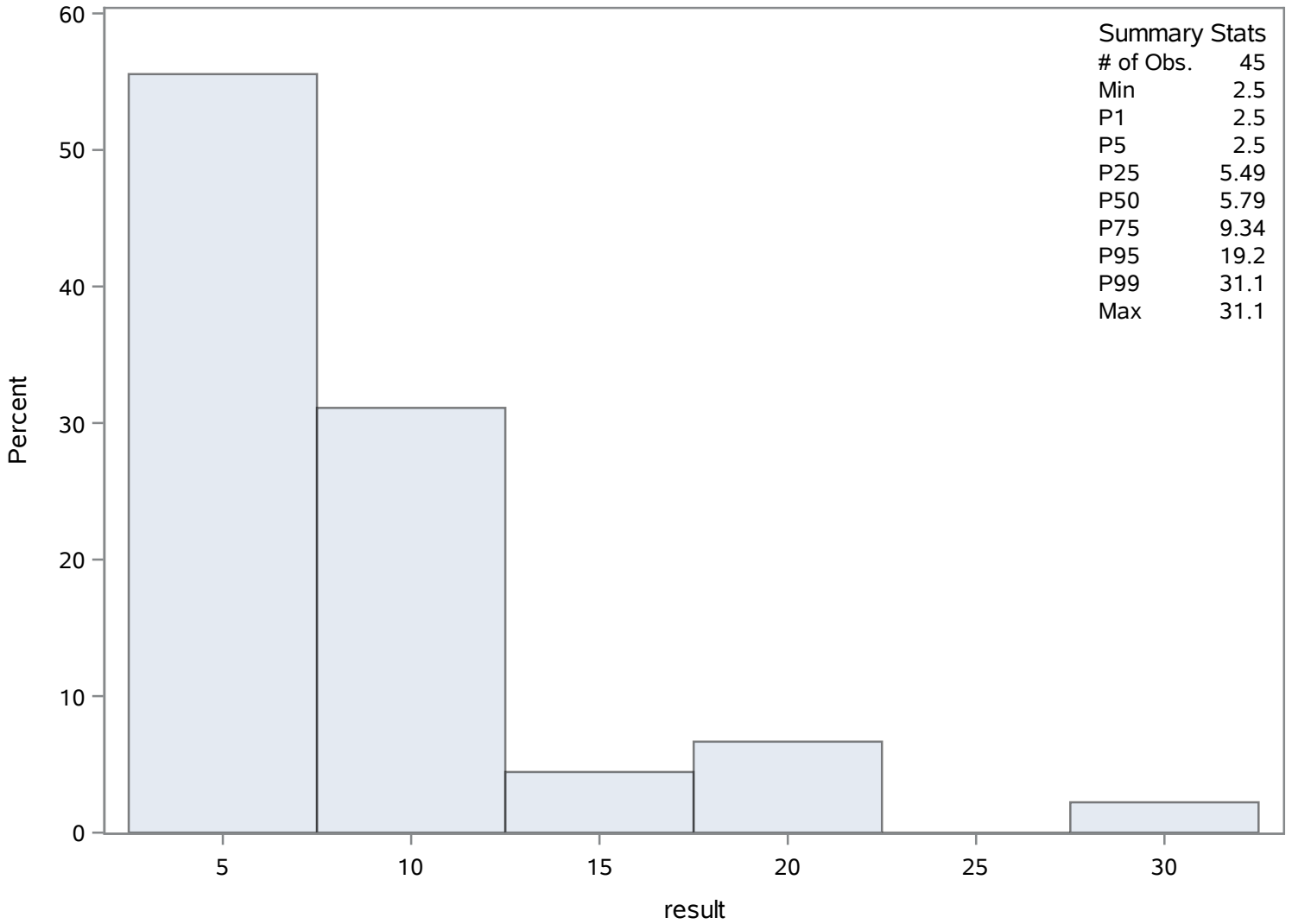
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.50	428	16.8	456
2.50	427	19.0	445
2.50	425	19.2	457
2.50	422	20.6	441
2.83	424	31.1	432

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	43.3228571	Sum Observations	1516.3
Std Deviation	22.1407674	Variance	490.21358
Skewness	1.05552625	Kurtosis	0.23994099
Uncorrected SS	82357.71	Corrected SS	16667.2617
Coeff Variation	51.106434	Std Error Mean	3.74247275

Basic Statistical Measures			
Location		Variability	
Mean	43.32286	Std Deviation	22.14077
Median	36.80000	Variance	490.21358
Mode	26.10000	Range	79.40000
		Interquartile Range	28.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.576	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	97.5
99%	97.5
95%	90.1
90%	87.4
75% Q3	54.5
50% Median	36.8
25% Q1	26.1
10%	21.2
5%	20.2
1%	18.1
0% Min	18.1

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Magnesium (Dissolved) mg/L

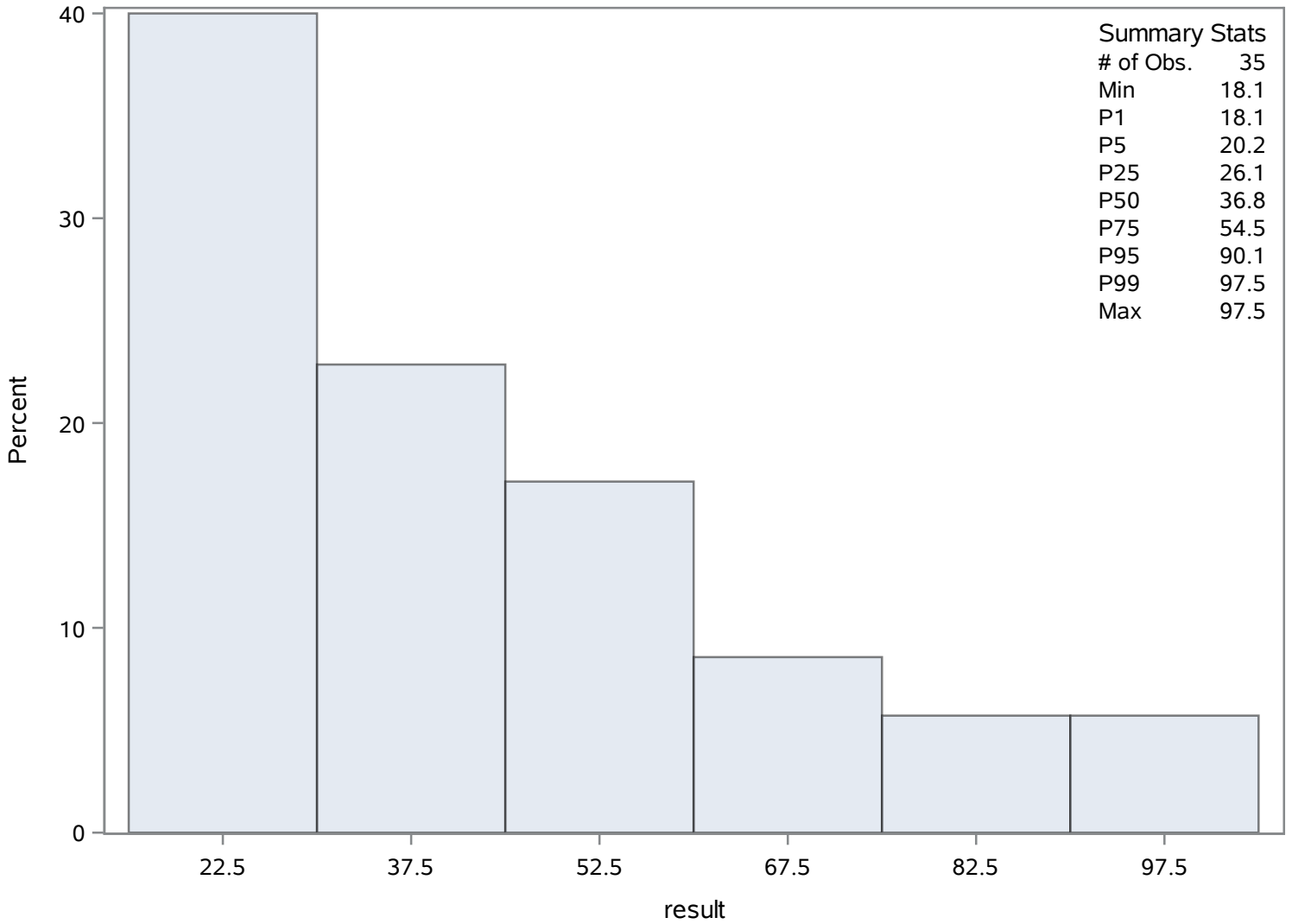
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.1	468	71.3	490
20.2	480	87.4	492
21.1	467	87.6	491
21.2	484	90.1	466
23.2	476	97.5	463

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	0.48611111	Sum Observations	30.625
Std Deviation	0.0730495	Variance	0.00533623
Skewness	-0.4645187	Kurtosis	-0.3041031
Uncorrected SS	15.217999	Corrected SS	0.33084622
Coeff Variation	15.0273256	Std Error Mean	0.00920337

Basic Statistical Measures			
Location		Variability	
Mean	0.486111	Std Deviation	0.07305
Median	0.495000	Variance	0.00534
Mode	0.524000	Range	0.33100
		Interquartile Range	0.11000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	52.81881	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.624
99%	0.624
95%	0.591
90%	0.566
75% Q3	0.540
50% Median	0.495
25% Q1	0.430
10%	0.389
5%	0.363
1%	0.293
0% Min	0.293

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrate-Nitrite (N) (Total) mg/L

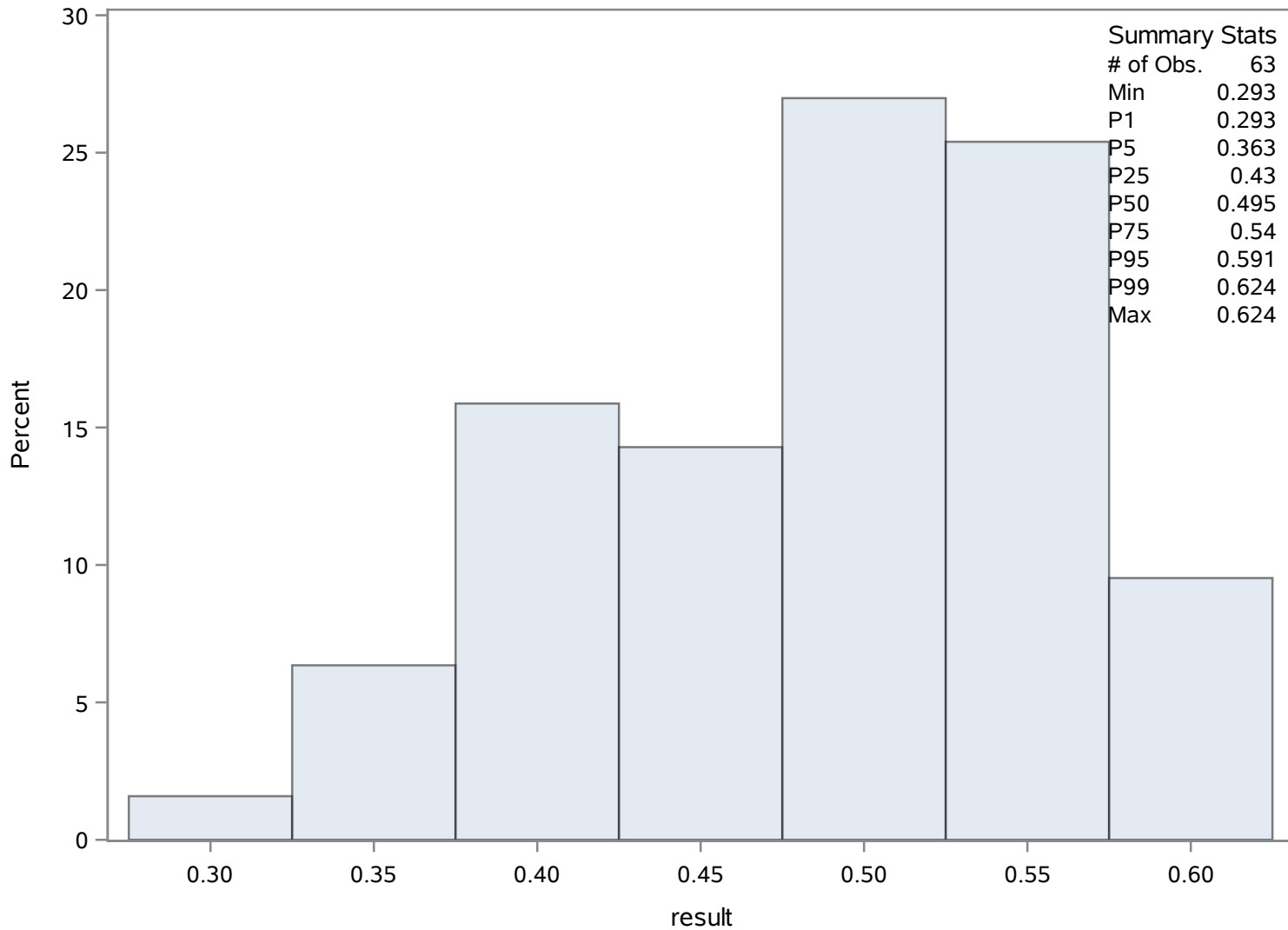
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.293	521	0.577	525
0.337	515	0.591	548
0.352	504	0.602	553
0.363	506	0.617	533
0.372	510	0.624	552

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	0.0046746	Sum Observations	0.2945
Std Deviation	0.00119865	Variance	1.43676E-6
Skewness	2.60437252	Kurtosis	12.6124934
Uncorrected SS	0.00146575	Corrected SS	0.00008908
Coeff Variation	25.6417677	Std Error Mean	0.00015102

Basic Statistical Measures			
Location		Variability	
Mean	0.004675	Std Deviation	0.00120
Median	0.005000	Variance	1.43676E-6
Mode	0.005000	Range	0.00850
		Interquartile Range	0.00100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	30.95439	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0110
99%	0.0110
95%	0.0060
90%	0.0050
75% Q3	0.0050
50% Median	0.0050
25% Q1	0.0040
10%	0.0040
5%	0.0040
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrite (N) (Total) mg/L

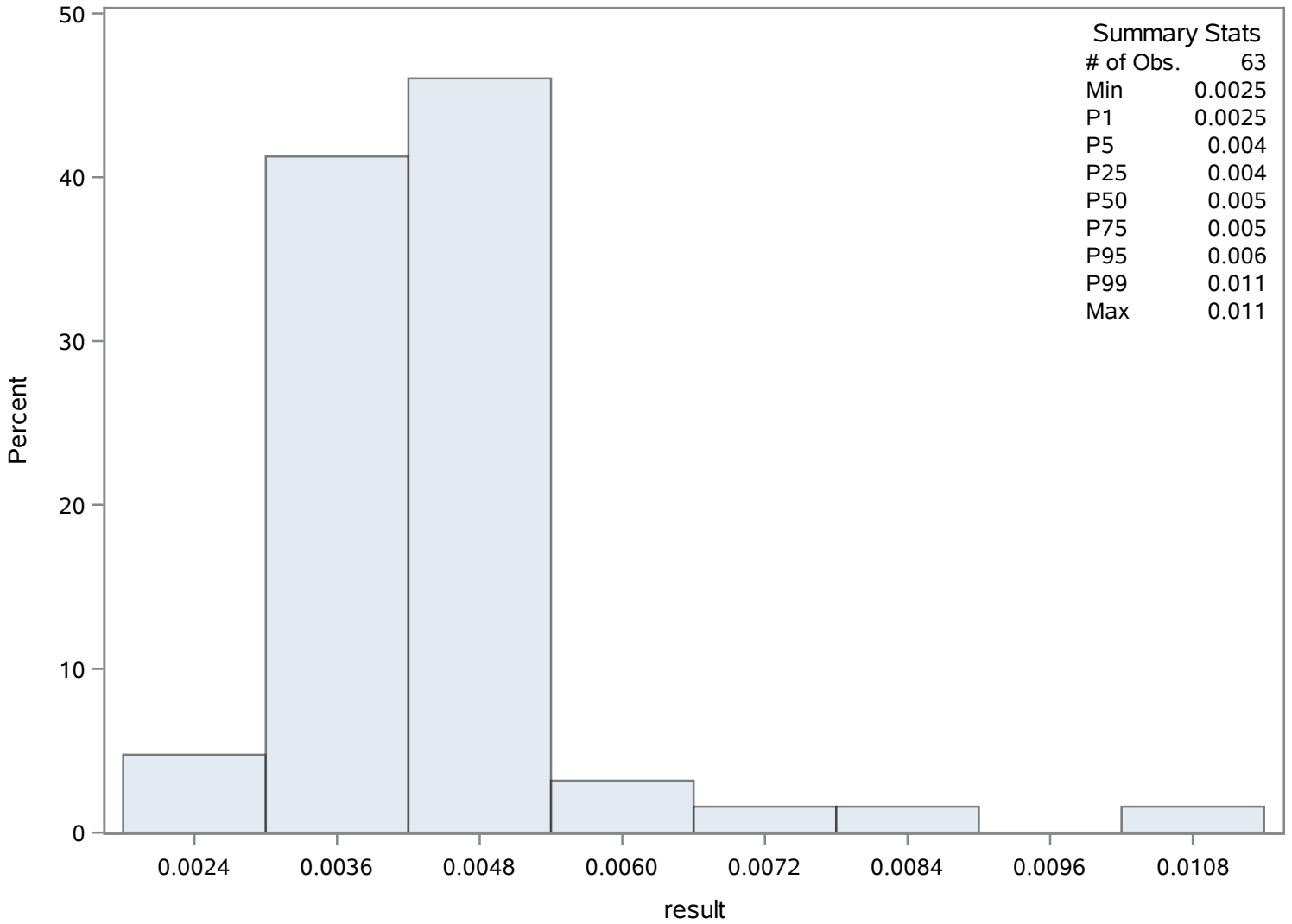
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	588	0.006	589
0.0025	587	0.006	592
0.0025	585	0.007	584
0.0040	618	0.008	562
0.0040	617	0.011	564

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	65	Sum Weights	65
Mean	0.53707692	Sum Observations	34.91
Std Deviation	0.06100008	Variance	0.00372101
Skewness	-0.7009325	Kurtosis	0.01188231
Uncorrected SS	18.9875	Corrected SS	0.23814462
Coeff Variation	11.3577918	Std Error Mean	0.00756613

Basic Statistical Measures			
Location		Variability	
Mean	0.537077	Std Deviation	0.06100
Median	0.550000	Variance	0.00372
Mode	0.600000	Range	0.29000
		Interquartile Range	0.09000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	70.98438	Pr > t 	<.0001
Sign	M	32.5	Pr >= M 	<.0001
Signed Rank	S	1072.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.64
99%	0.64
95%	0.60
90%	0.60
75% Q3	0.59
50% Median	0.55
25% Q1	0.50
10%	0.45
5%	0.45
1%	0.35
0% Min	0.35

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrogen- Total (Total) mg/L

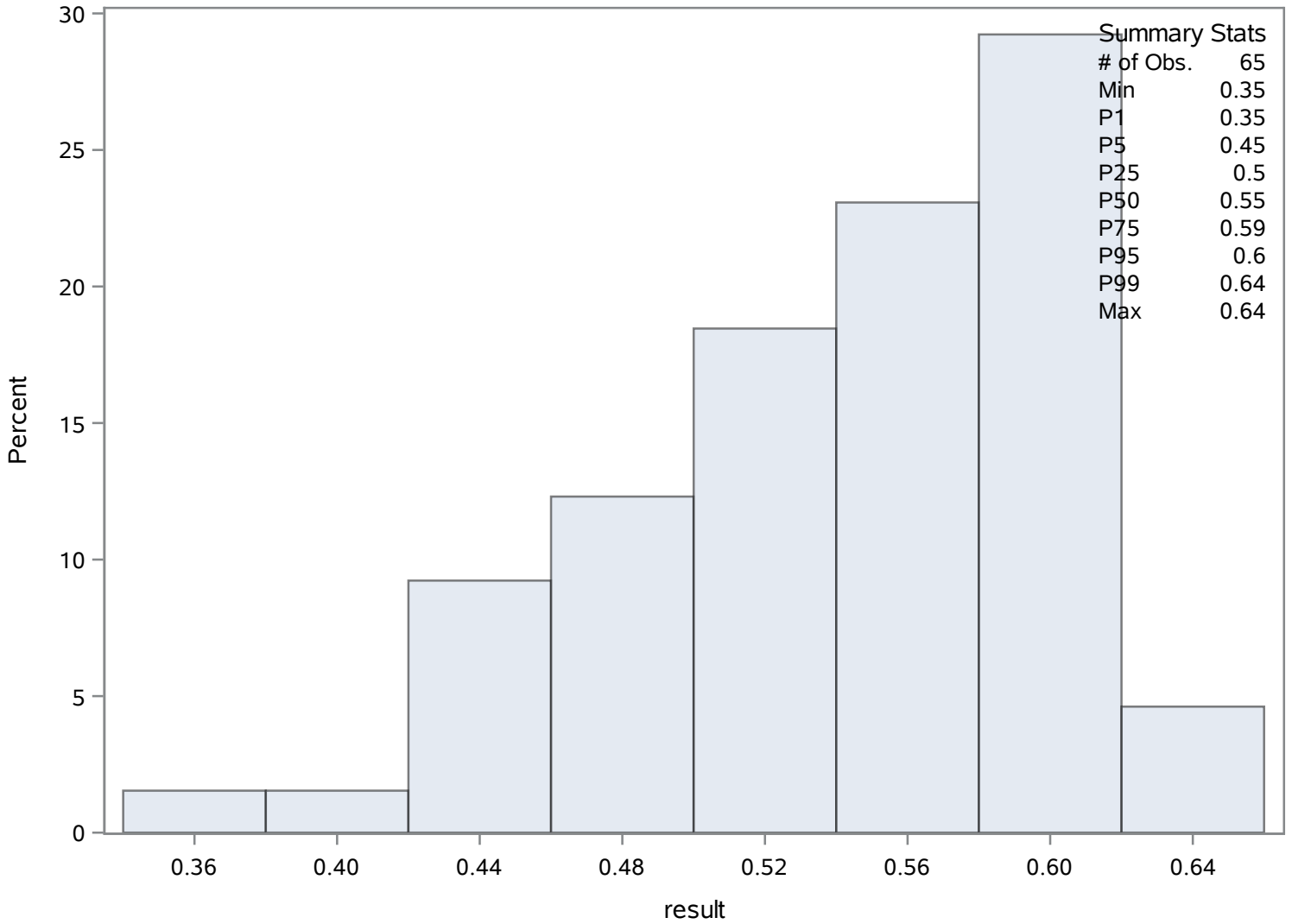
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.35	649	0.60	669
0.41	642	0.60	675
0.42	657	0.62	672
0.45	674	0.62	680
0.45	673	0.64	625

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	64	Sum Weights	64
Mean	0.01541563	Sum Observations	0.9866
Std Deviation	0.00235737	Variance	5.55721E-6
Skewness	-0.0527749	Kurtosis	0.03707001
Uncorrected SS	0.01555916	Corrected SS	0.0003501
Coeff Variation	15.292108	Std Error Mean	0.00029467

Basic Statistical Measures			
Location		Variability	
Mean	0.015416	Std Deviation	0.00236
Median	0.015500	Variance	5.55721E-6
Mode	0.016000	Range	0.01100
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	52.31457	Pr > t 	<.0001
Sign	M	32	Pr >= M 	<.0001
Signed Rank	S	1040	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0210
99%	0.0210
95%	0.0200
90%	0.0180
75% Q3	0.0170
50% Median	0.0155
25% Q1	0.0140
10%	0.0120
5%	0.0120
1%	0.0100
0% Min	0.0100

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Orthophosphate (P) (Dissolved) mg/L

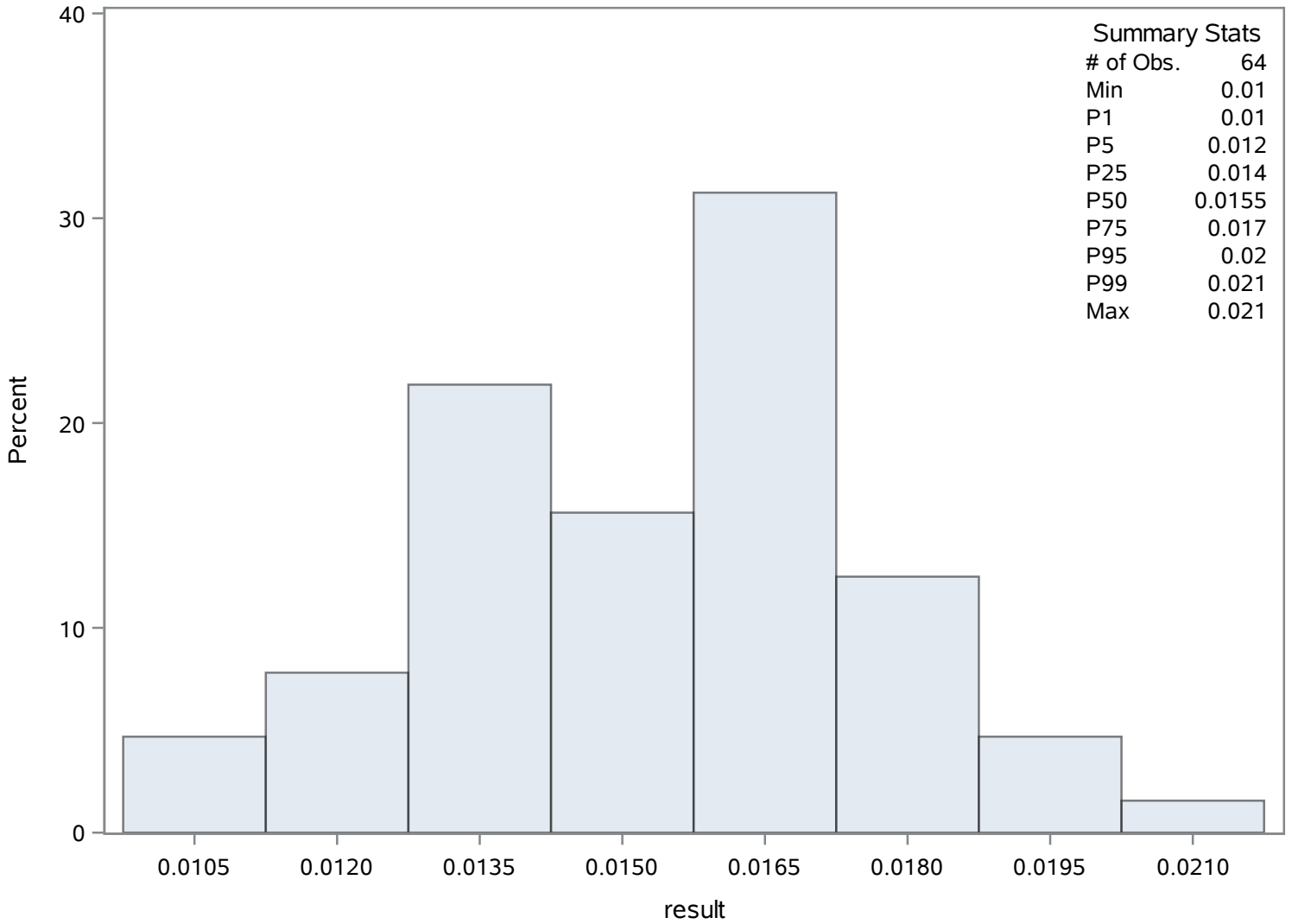
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	696	0.018	749
0.010	691	0.020	695
0.011	707	0.020	716
0.012	721	0.020	741
0.012	718	0.021	722

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	1.12936508	Sum Observations	71.15
Std Deviation	0.28639513	Variance	0.08202217
Skewness	2.34184376	Kurtosis	4.67055694
Uncorrected SS	85.4397	Corrected SS	5.0853746
Coeff Variation	25.3589505	Std Error Mean	0.03608239

Basic Statistical Measures			
Location		Variability	
Mean	1.129365	Std Deviation	0.28640
Median	1.000000	Variance	0.08202
Mode	1.000000	Range	1.17000
		Interquartile Range	0.04000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	31.29962	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.17
99%	2.17
95%	1.72
90%	1.63
75% Q3	1.04
50% Median	1.00
25% Q1	1.00
10%	1.00
5%	1.00
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phaeophytin (Total) ug/L

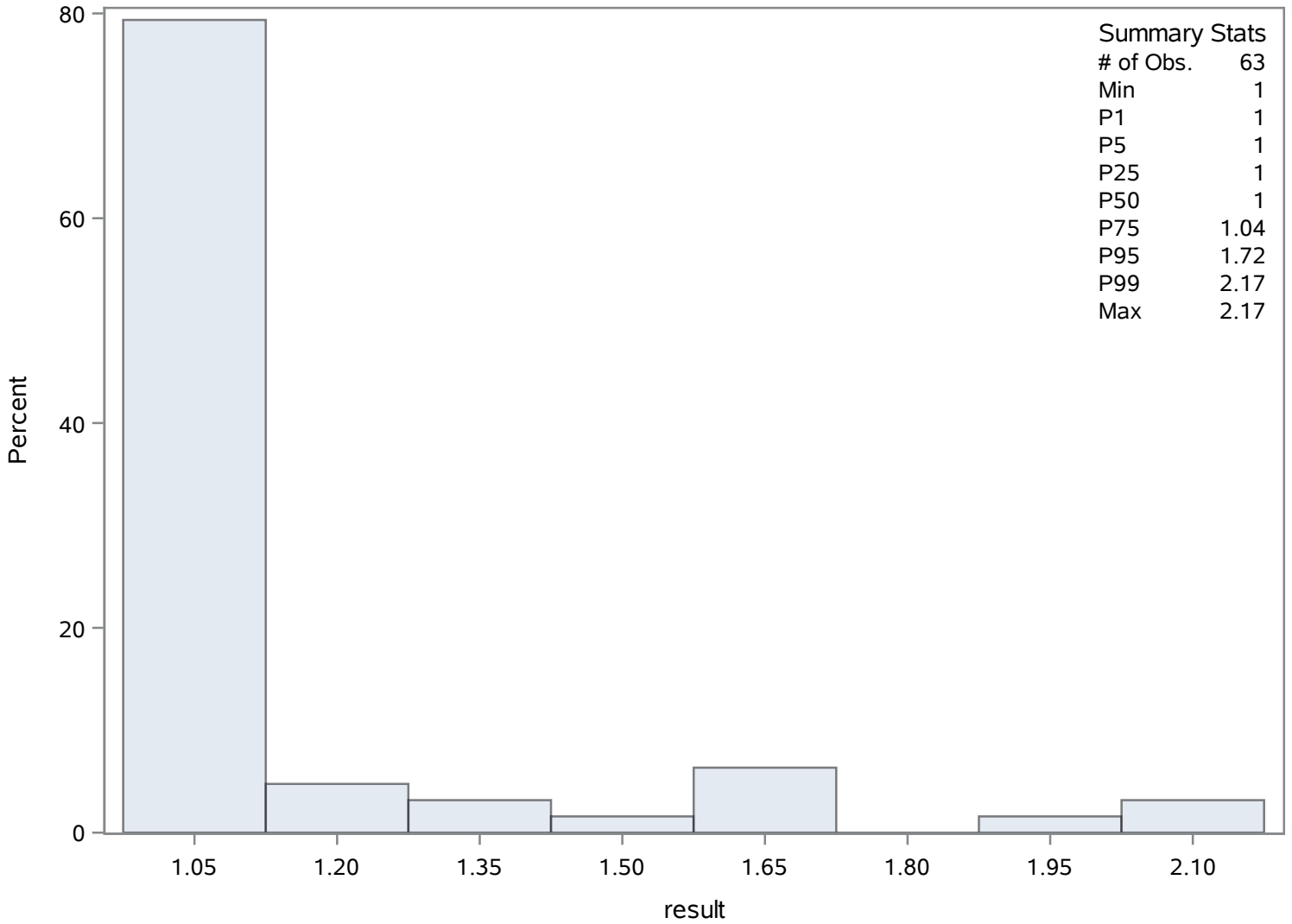
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	811	1.69	806
1	810	1.72	761
1	809	2.00	765
1	808	2.07	797
1	807	2.17	773

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	64	Sum Weights	64
Mean	0.02134688	Sum Observations	1.3662
Std Deviation	0.00388718	Variance	0.00001511
Skewness	1.20310751	Kurtosis	2.78646186
Uncorrected SS	0.03011604	Corrected SS	0.00095194
Coeff Variation	18.2095856	Std Error Mean	0.0004859

Basic Statistical Measures			
Location		Variability	
Mean	0.021347	Std Deviation	0.00389
Median	0.020000	Variance	0.0000151
Mode	0.019000	Range	0.02100
		Interquartile Range	0.00450

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	43.93291	Pr > t 	<.0001
Sign	M	32	Pr >= M 	<.0001
Signed Rank	S	1040	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0350
99%	0.0350
95%	0.0270
90%	0.0250
75% Q3	0.0235
50% Median	0.0200
25% Q1	0.0190
10%	0.0180
5%	0.0160
1%	0.0140
0% Min	0.0140

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phosphorus- Total (Total) mg/L

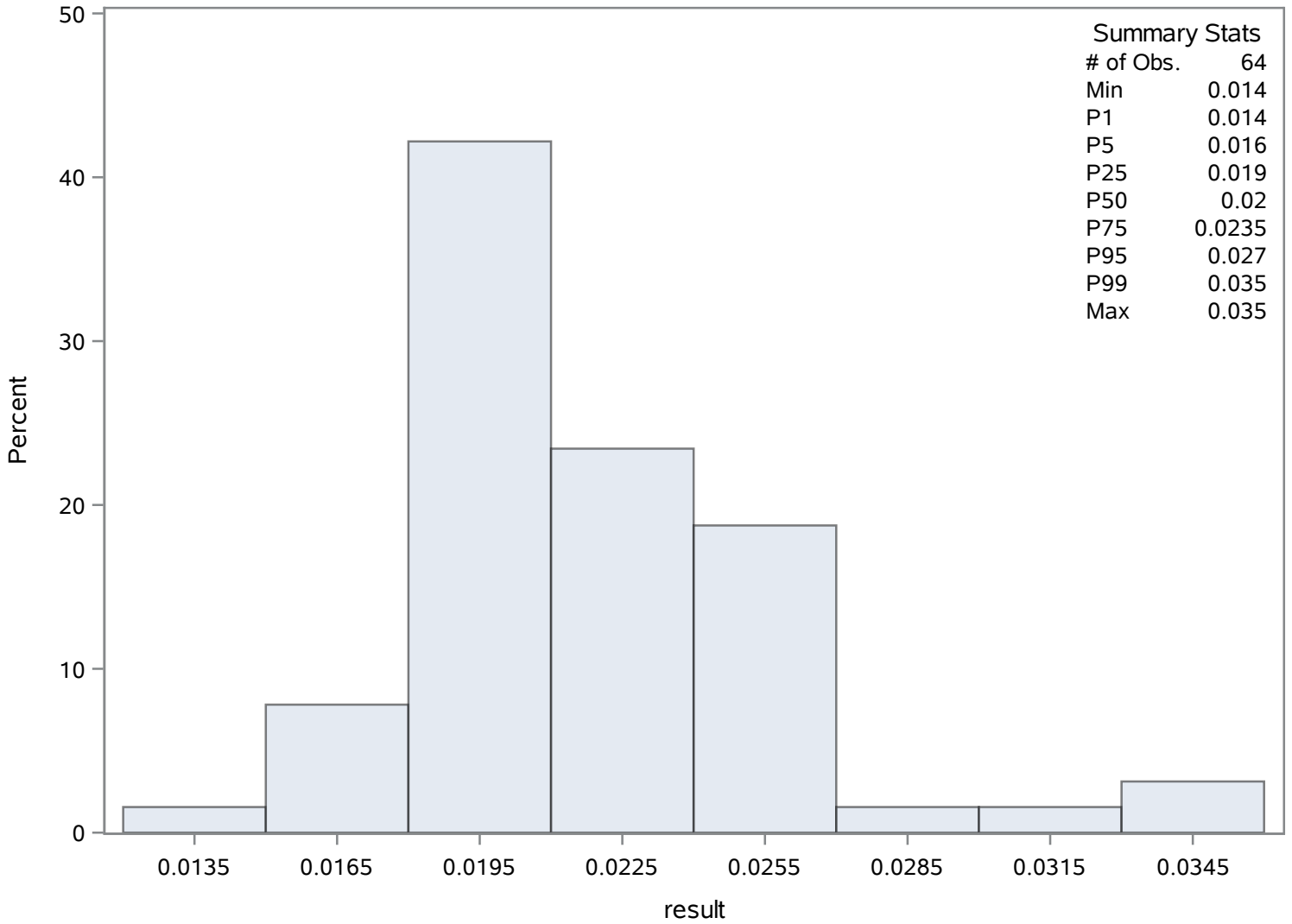
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.014	871	0.0252	875
0.015	820	0.0270	846
0.015	818	0.0320	870
0.016	816	0.0330	849
0.016	815	0.0350	840

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	11.1148571	Sum Observations	389.02
Std Deviation	7.01228685	Variance	49.1721669
Skewness	1.04783063	Kurtosis	0.20539908
Uncorrected SS	5995.7554	Corrected SS	1671.85367
Coeff Variation	63.0893116	Std Error Mean	1.18529281

Basic Statistical Measures			
Location		Variability	
Mean	11.11486	Std Deviation	7.01229
Median	9.31000	Variance	49.17217
Mode	10.70000	Range	24.58000
		Interquartile Range	9.68000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.377309	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	28.00
99%	28.00
95%	26.70
90%	24.40
75% Q3	15.20
50% Median	9.31
25% Q1	5.52
10%	4.05
5%	3.89
1%	3.42
0% Min	3.42

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Potassium (Dissolved) mg/L

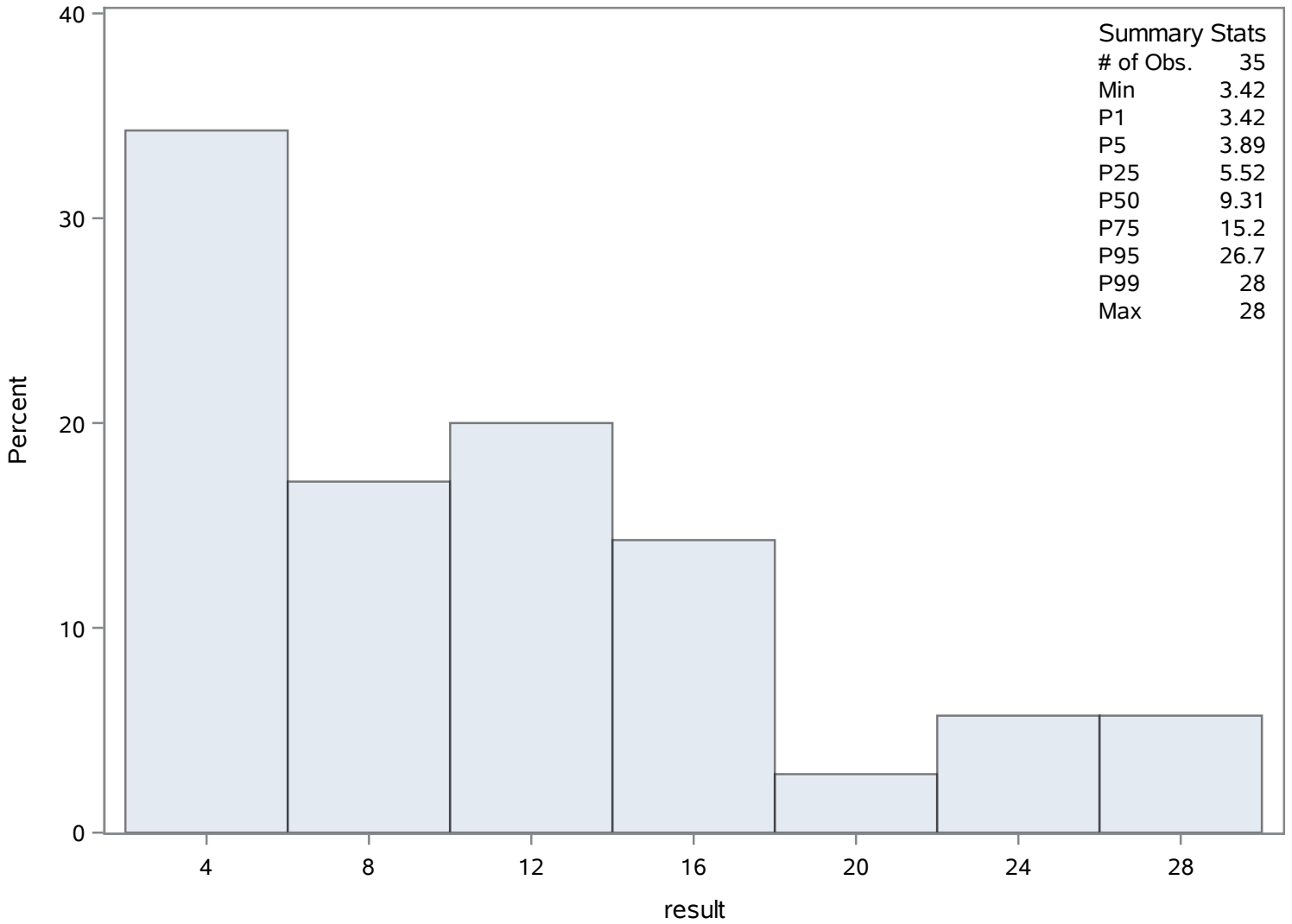
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.42	885	20.2	907
3.89	901	24.4	909
4.05	897	25.0	908
4.05	884	26.7	880
4.88	893	28.0	883

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	1.06480952	Sum Observations	67.083
Std Deviation	0.41947532	Variance	0.17595954
Skewness	1.30262263	Kurtosis	3.21950514
Uncorrected SS	82.340109	Corrected SS	10.9094917
Coeff Variation	39.3943997	Std Error Mean	0.05284892

Basic Statistical Measures			
Location		Variability	
Mean	1.064810	Std Deviation	0.41948
Median	1.100000	Variance	0.17596
Mode	1.100000	Range	2.36000
		Interquartile Range	0.42000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	20.14818	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.74
99%	2.74
95%	1.82
90%	1.64
75% Q3	1.19
50% Median	1.10
25% Q1	0.77
10%	0.60
5%	0.50
1%	0.38
0% Min	0.38

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Nonfilterable (TSS) (Total) mg/L

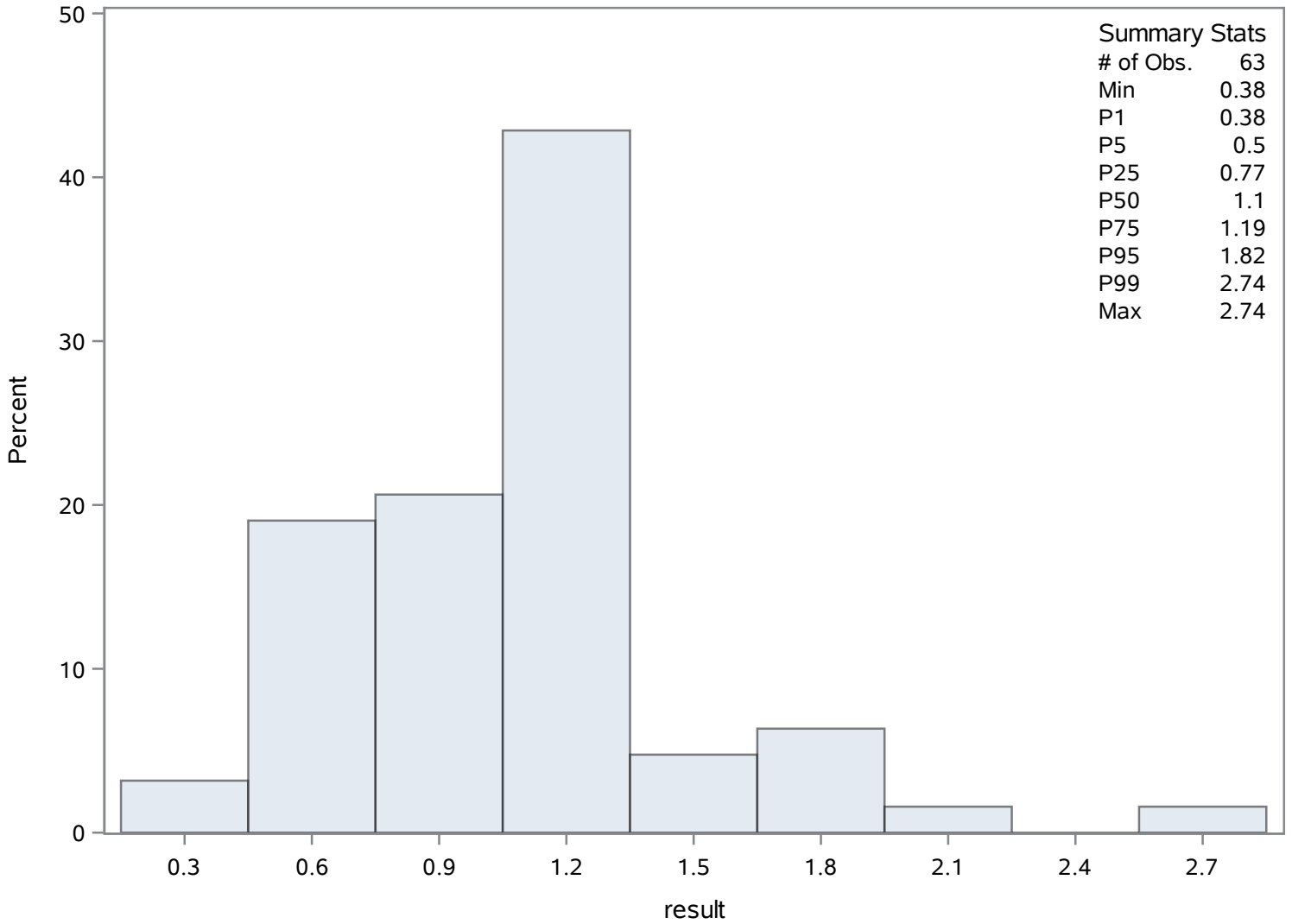
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.38	925	1.80	923
0.41	919	1.82	951
0.50	942	1.84	972
0.50	940	2.00	934
0.50	913	2.74	968

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	64	Sum Weights	64
Mean	0.9996875	Sum Observations	63.98
Std Deviation	0.38533007	Variance	0.14847927
Skewness	1.09444564	Kurtosis	1.30063702
Uncorrected SS	73.3142	Corrected SS	9.35419375
Coeff Variation	38.5450527	Std Error Mean	0.04816626

Basic Statistical Measures			
Location		Variability	
Mean	0.999688	Std Deviation	0.38533
Median	1.080000	Variance	0.14848
Mode	1.100000	Range	1.80000
		Interquartile Range	0.38000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.75493	Pr > t 	<.0001
Sign	M	32	Pr >= M 	<.0001
Signed Rank	S	1040	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.14
99%	2.14
95%	1.91
90%	1.46
75% Q3	1.10
50% Median	1.08
25% Q1	0.72
10%	0.60
5%	0.59
1%	0.34
0% Min	0.34

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Volatile (Total) mg/L

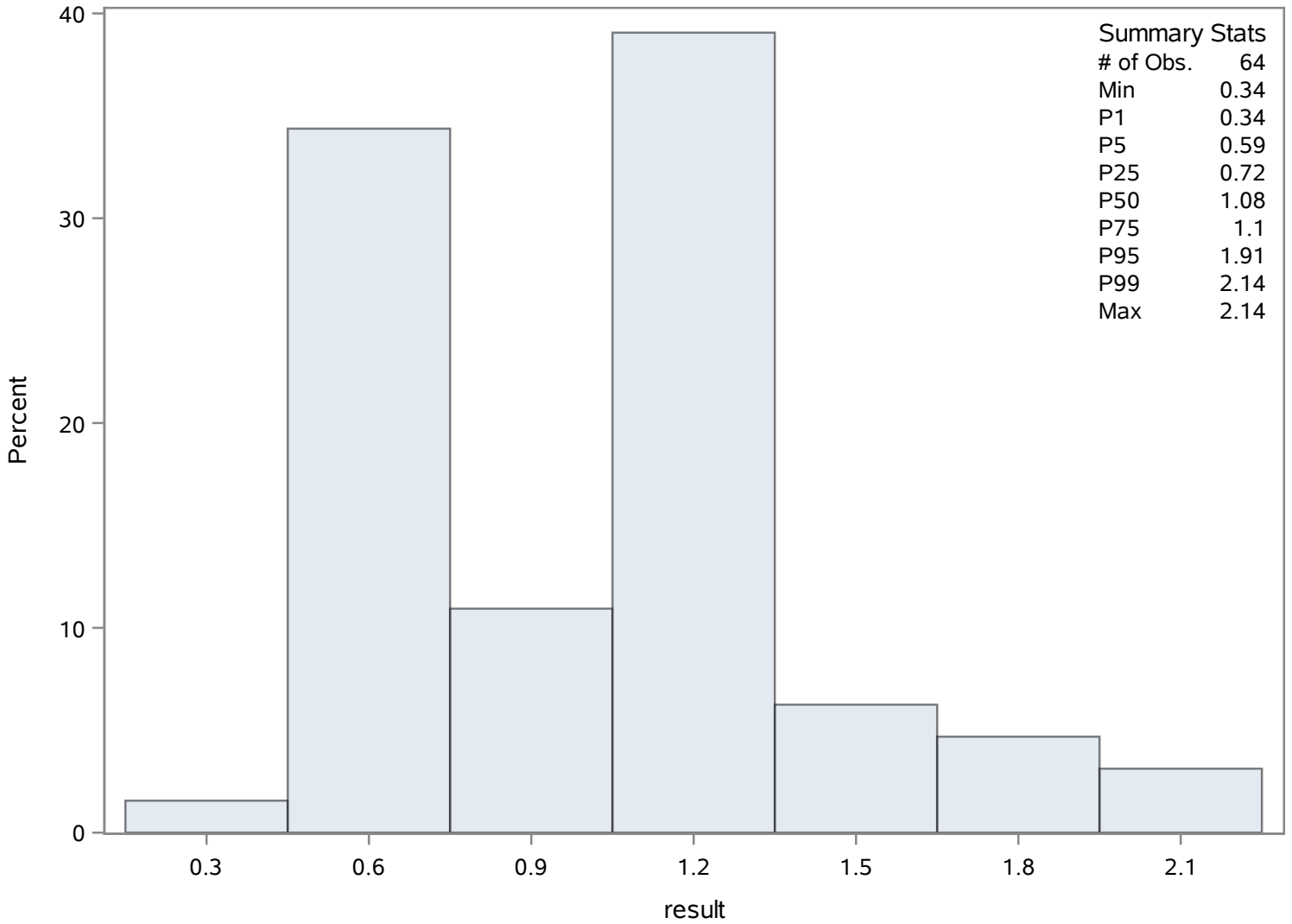
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.34	989	1.74	987
0.50	983	1.91	1036
0.57	988	1.94	986
0.59	982	2.08	1020
0.59	981	2.14	1032

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	47	Sum Weights	47
Mean	1.33723404	Sum Observations	62.85
Std Deviation	0.82595321	Variance	0.6821987
Skewness	1.54087575	Kurtosis	2.59661751
Uncorrected SS	115.4263	Corrected SS	31.3811404
Coeff Variation	61.7657929	Std Error Mean	0.12047766

Basic Statistical Measures			
Location		Variability	
Mean	1.337234	Std Deviation	0.82595
Median	1.220000	Variance	0.68220
Mode	0.640000	Range	3.66000
		Interquartile Range	0.92000

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.09944	Pr > t 	<.0001
Sign	M	23.5	Pr >= M 	<.0001
Signed Rank	S	564	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.07
99%	4.07
95%	2.80
90%	2.56
75% Q3	1.61
50% Median	1.22
25% Q1	0.69
10%	0.53
5%	0.49

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

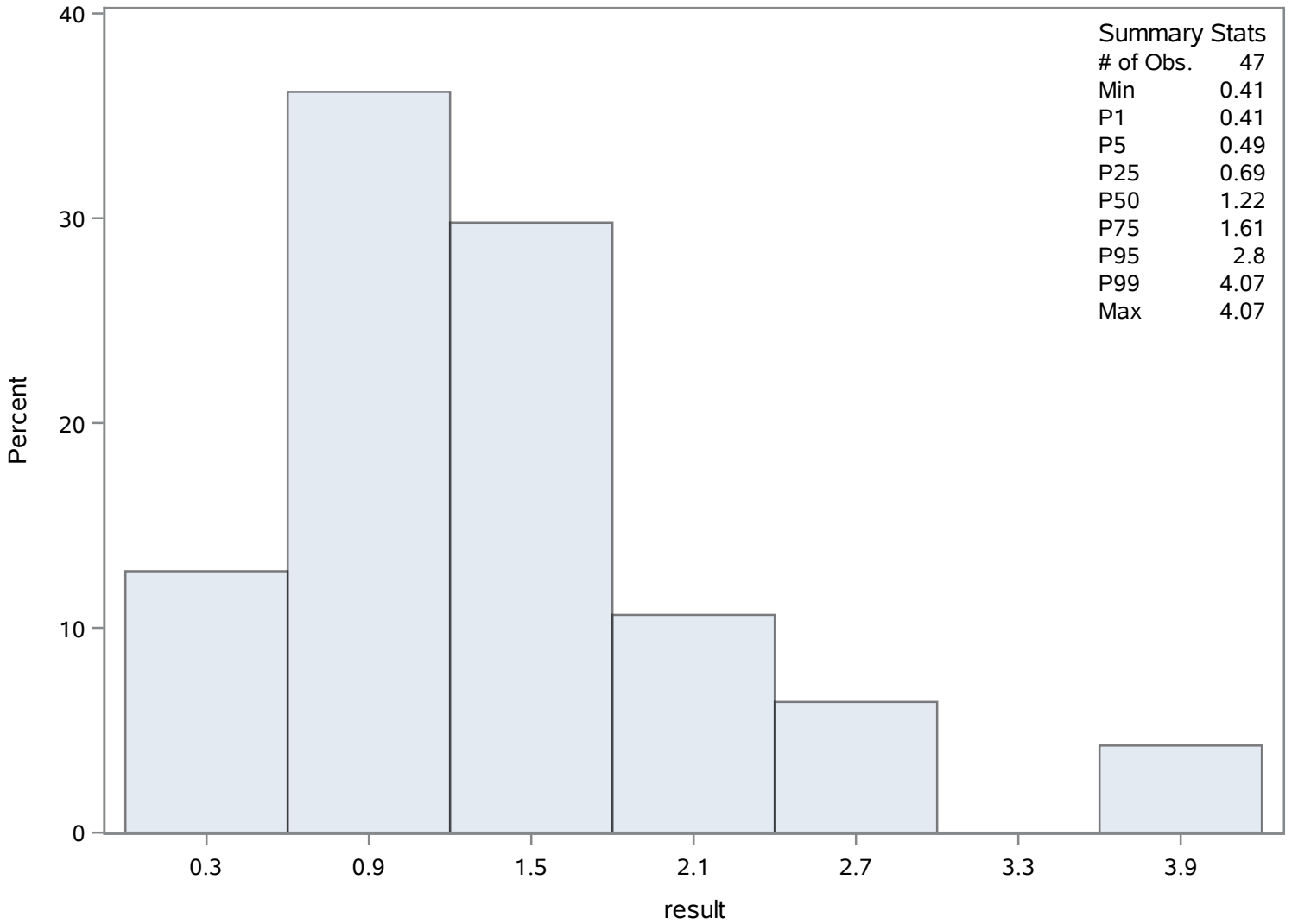
Quantiles (Definition 5)	
Level	Quantile
1%	0.41
0% Min	0.41

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.41	1060	2.56	1084
0.47	1076	2.58	1085
0.49	1072	2.80	1055
0.52	1059	3.80	1043
0.53	1068	4.07	1058

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Coastal Rivers

Chassahowitzka River CV 0

Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	9.76327308	Sum Observations	507.6902
Std Deviation	4.02347351	Variance	16.1883391
Skewness	0.76338773	Kurtosis	0.10716743
Uncorrected SS	5782.32335	Corrected SS	825.605292
Coeff Variation	41.2102937	Std Error Mean	0.55795539

Basic Statistical Measures			
Location		Variability	
Mean	9.763273	Std Deviation	4.02347
Median	8.848000	Variance	16.18834
Mode	5.790000	Range	17.83000
		Interquartile Range	5.89050

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.4983	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21.0300
99%	21.0300
95%	17.7500
90%	15.2400
75% Q3	12.4055
50% Median	8.8480
25% Q1	6.5150
10%	5.4900
5%	4.5700

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure
Variable: result

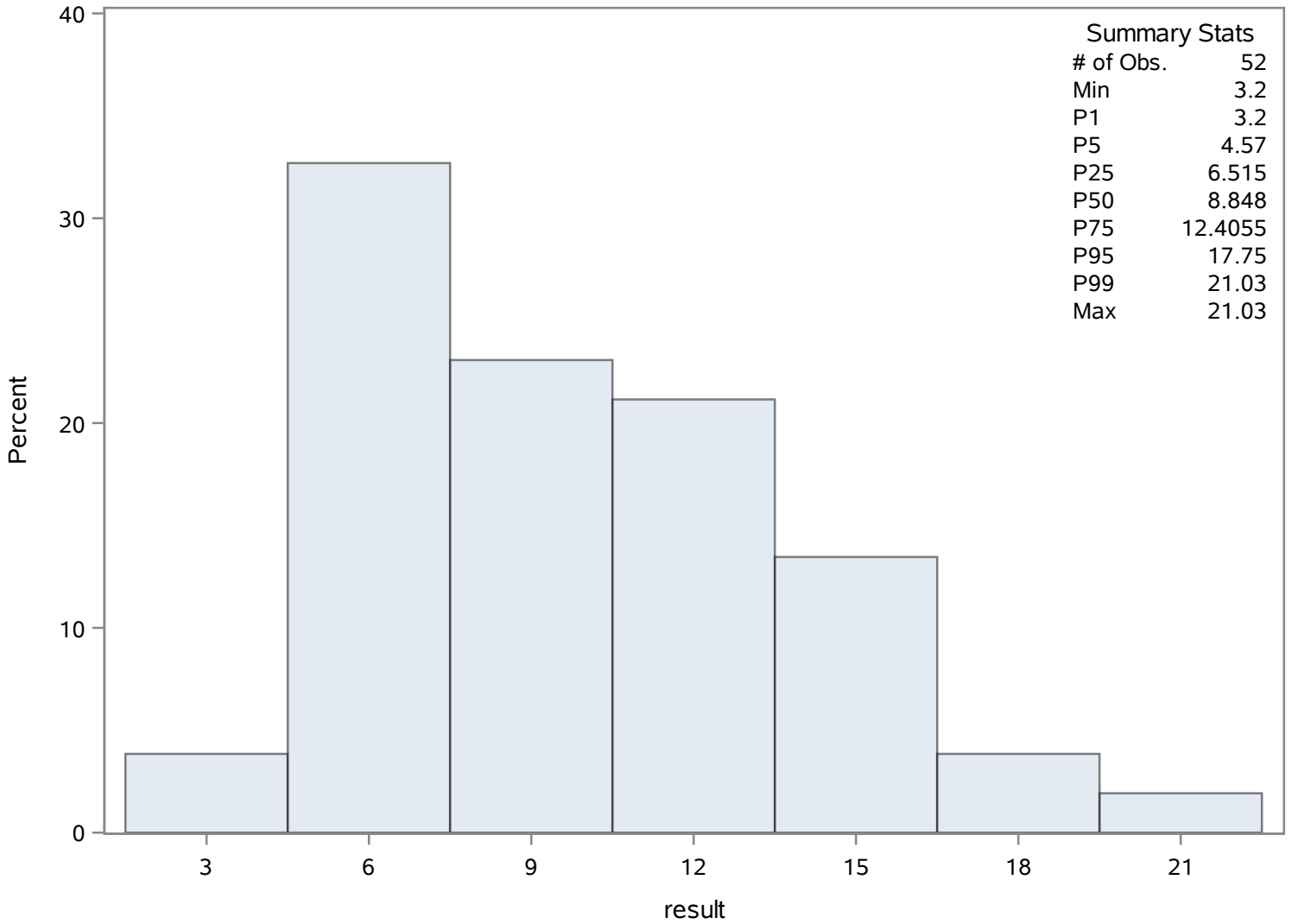
Quantiles (Definition 5)	
Level	Quantile
1%	3.2000
0% Min	3.2000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.20	1127	15.70	1117
4.11	1100	16.46	1125
4.57	1137	17.75	1087
5.34	1134	18.75	1121
5.41	1130	21.03	1086

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	289.471429	Sum Observations	10131.5
Std Deviation	182.491624	Variance	33303.1927
Skewness	1.0848774	Kurtosis	0.37936965
Uncorrected SS	4065088.33	Corrected SS	1132308.55
Coeff Variation	63.0430521	Std Error Mean	30.8467144

Basic Statistical Measures			
Location		Variability	
Mean	289.4714	Std Deviation	182.49162
Median	241.0000	Variance	33303
Mode	141.0000	Range	657.30000
		Interquartile Range	245.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.38419	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	744.0
99%	744.0
95%	697.0
90%	630.0
75% Q3	389.0
50% Median	241.0
25% Q1	144.0
10%	111.0
5%	100.0
1%	86.7
0% Min	86.7

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

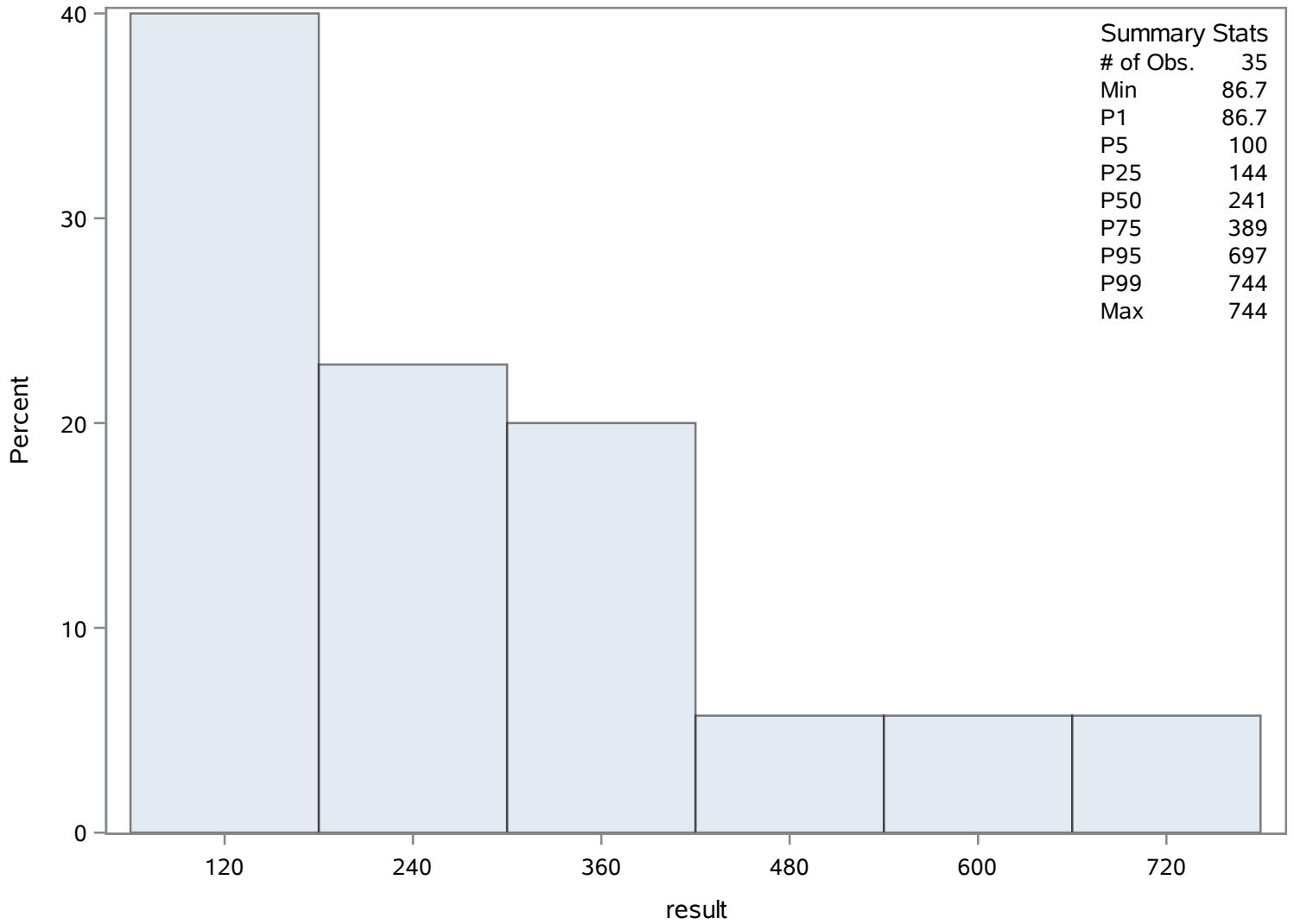
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
86.7	1146	510	1168
100.0	1162	630	1170
103.0	1158	659	1169
111.0	1145	697	1144
118.8	1154	744	1141

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	2669.93548	Sum Observations	165536
Std Deviation	1610.13951	Variance	2592549.24
Skewness	1.74689202	Kurtosis	3.98612608
Uncorrected SS	600115944	Corrected SS	158145504
Coeff Variation	60.3063078	Std Error Mean	204.487922

Basic Statistical Measures			
Location		Variability	
Mean	2669.935	Std Deviation	1610
Median	2452.500	Variance	2592549
Mode	2607.000	Range	8461
		Interquartile Range	1850

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.05669	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9041.0
99%	9041.0
95%	5158.0
90%	4761.0
75% Q3	3255.0
50% Median	2452.5
25% Q1	1405.0
10%	1117.0
5%	996.0
1%	580.0
0% Min	580.0

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Specific Conductance (Total) uS/cm

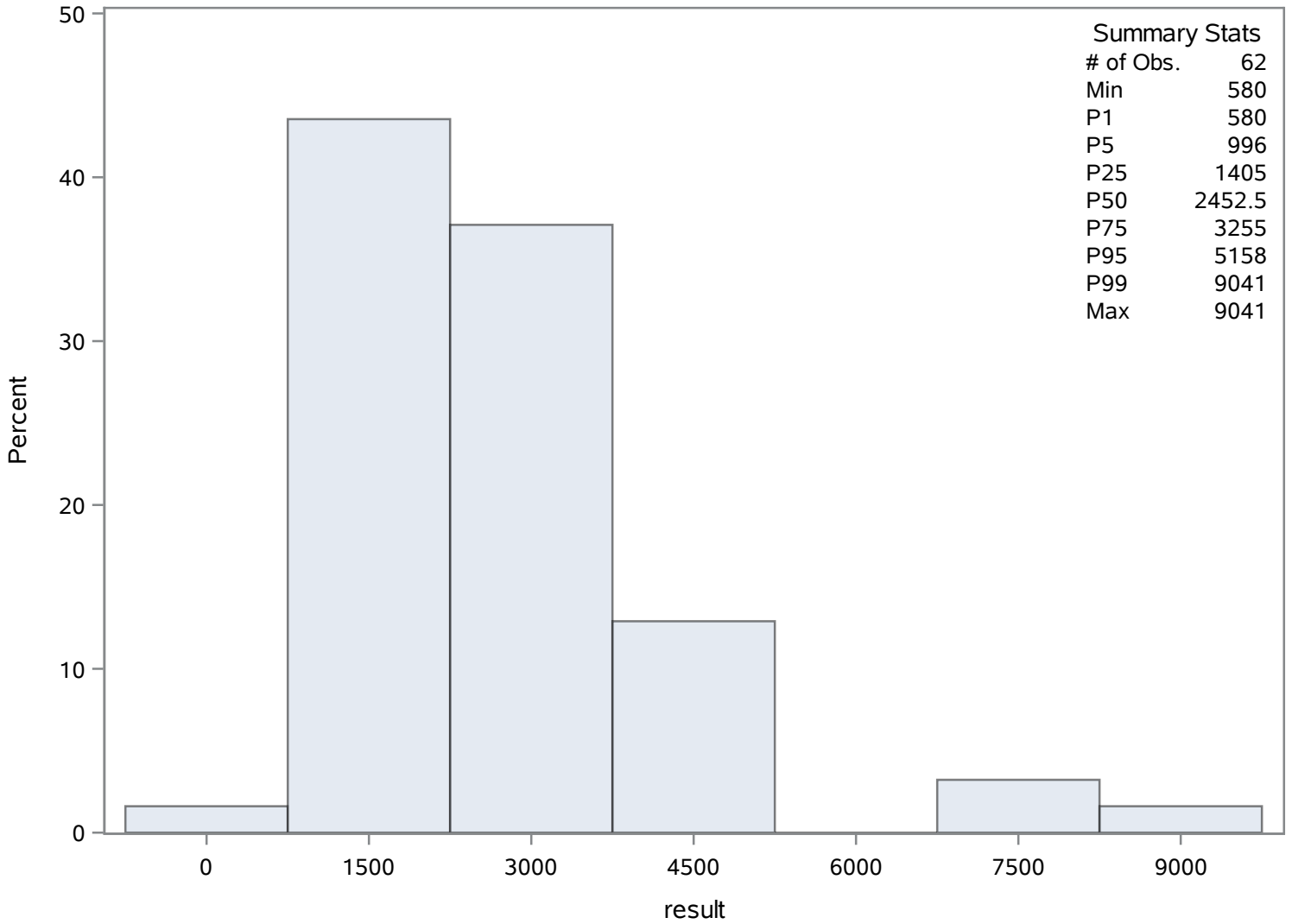
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
580	1173	5072	1204
837	1209	5158	1187
949	1225	6770	1192
996	1221	7358	1207
1046	1208	9041	1181

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	23.3562903	Sum Observations	1448.09
Std Deviation	0.69463337	Variance	0.48251552
Skewness	-0.8331232	Kurtosis	0.98494113
Uncorrected SS	33851.4439	Corrected SS	29.4334468
Coeff Variation	2.97407406	Std Error Mean	0.08821853

Basic Statistical Measures			
Location		Variability	
Mean	23.35629	Std Deviation	0.69463
Median	23.46000	Variance	0.48252
Mode	23.50000	Range	3.26000
		Interquartile Range	0.73000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	264.7549	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.60
99%	24.60
95%	24.38
90%	24.14
75% Q3	23.80
50% Median	23.46
25% Q1	23.07
10%	22.38
5%	22.20
1%	21.34
0% Min	21.34

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Temperature (Total) Deg. C

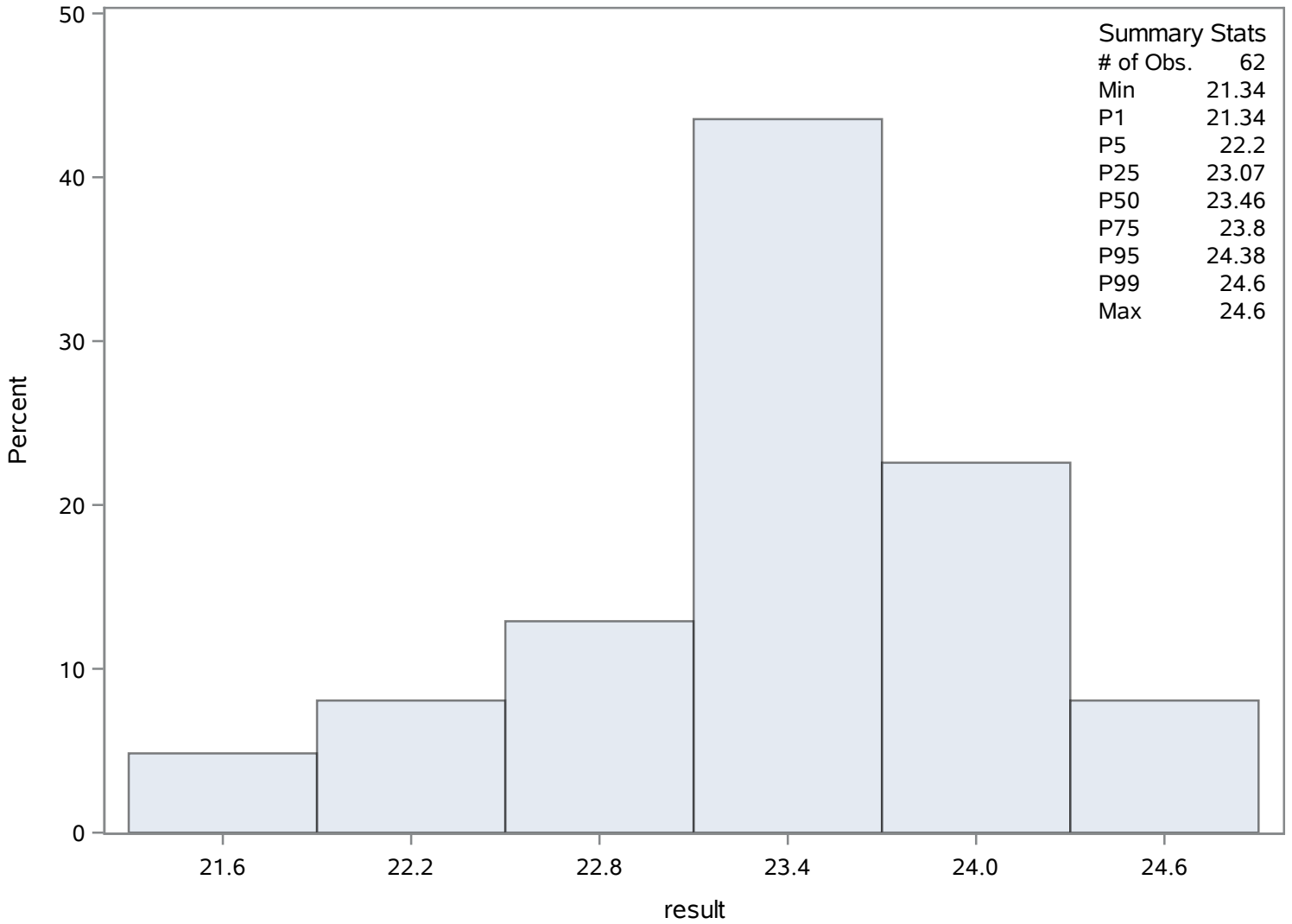
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21.34	1264	24.34	1255
21.40	1291	24.38	1254
21.78	1276	24.42	1270
22.20	1272	24.43	1237
22.31	1268	24.60	1286

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	0.41226984	Sum Observations	25.973
Std Deviation	0.29089363	Variance	0.0846191
Skewness	0.85651008	Kurtosis	0.05635293
Uncorrected SS	15.954269	Corrected SS	5.24638441
Coeff Variation	70.5590368	Std Error Mean	0.03664915

Basic Statistical Measures			
Location		Variability	
Mean	0.412270	Std Deviation	0.29089
Median	0.330000	Variance	0.08462
Mode	0.130000	Range	1.07000
		Interquartile Range	0.49000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.2491	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.20
99%	1.20
95%	0.89
90%	0.81
75% Q3	0.62
50% Median	0.33
25% Q1	0.13
10%	0.13
5%	0.13
1%	0.13
0% Min	0.13

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Turbidity (Total) NTU

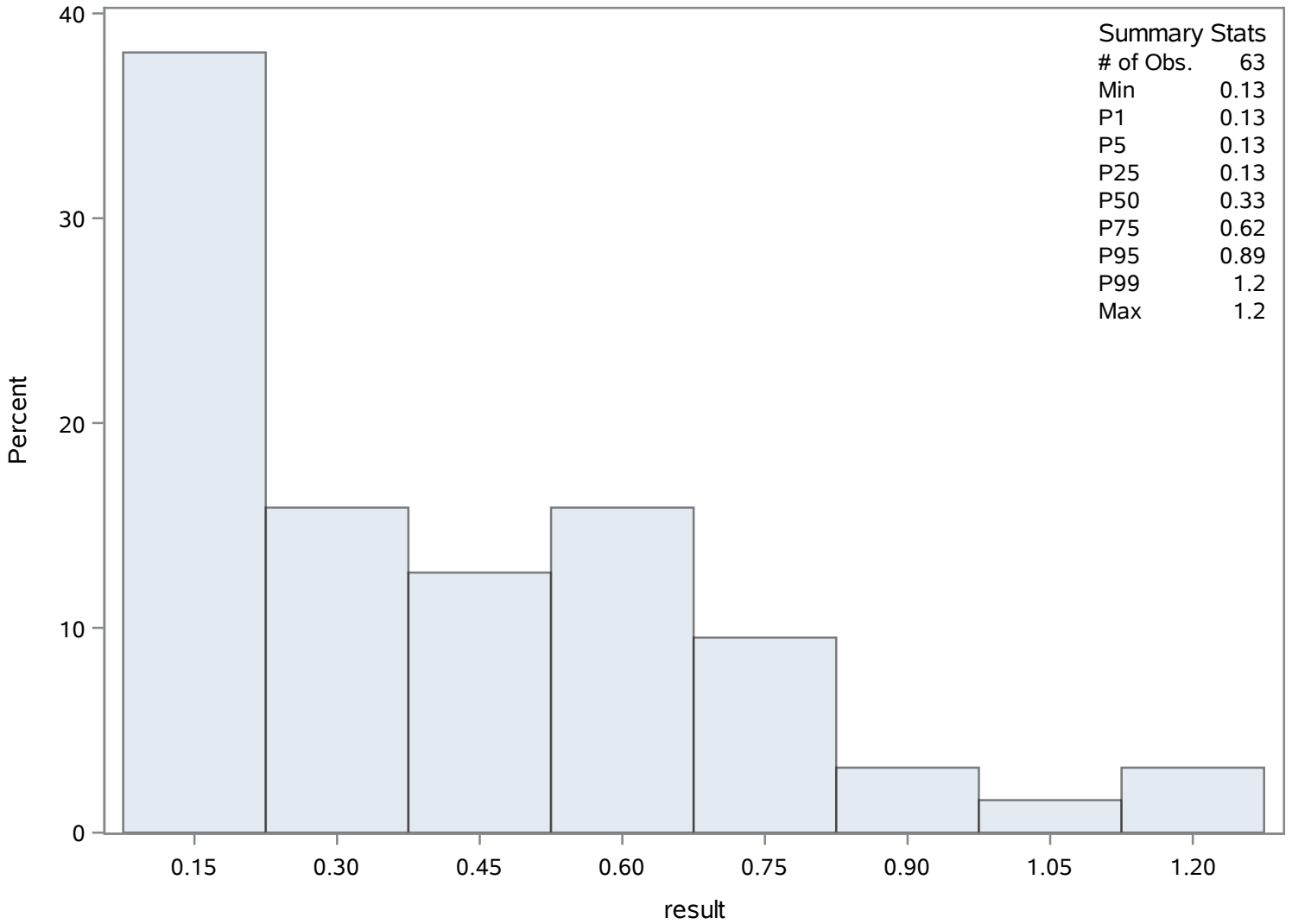
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	1326	0.84	1328
0.13	1325	0.89	1358
0.13	1324	1.08	1336
0.13	1322	1.18	1357
0.13	1320	1.20	1353

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	7.48822581	Sum Observations	464.27
Std Deviation	0.15738148	Variance	0.02476893
Skewness	-0.0187067	Kurtosis	0.0537349
Uncorrected SS	3478.0695	Corrected SS	1.51090484
Coeff Variation	2.10171927	Std Error Mean	0.01998747

Basic Statistical Measures			
Location		Variability	
Mean	7.488226	Std Deviation	0.15738
Median	7.495000	Variance	0.02477
Mode	7.520000	Range	0.74000
		Interquartile Range	0.22000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	374.646	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.880
99%	7.880
95%	7.720
90%	7.660
75% Q3	7.600
50% Median	7.495
25% Q1	7.380
10%	7.290
5%	7.250
1%	7.140
0% Min	7.140

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
pH (Total) SU

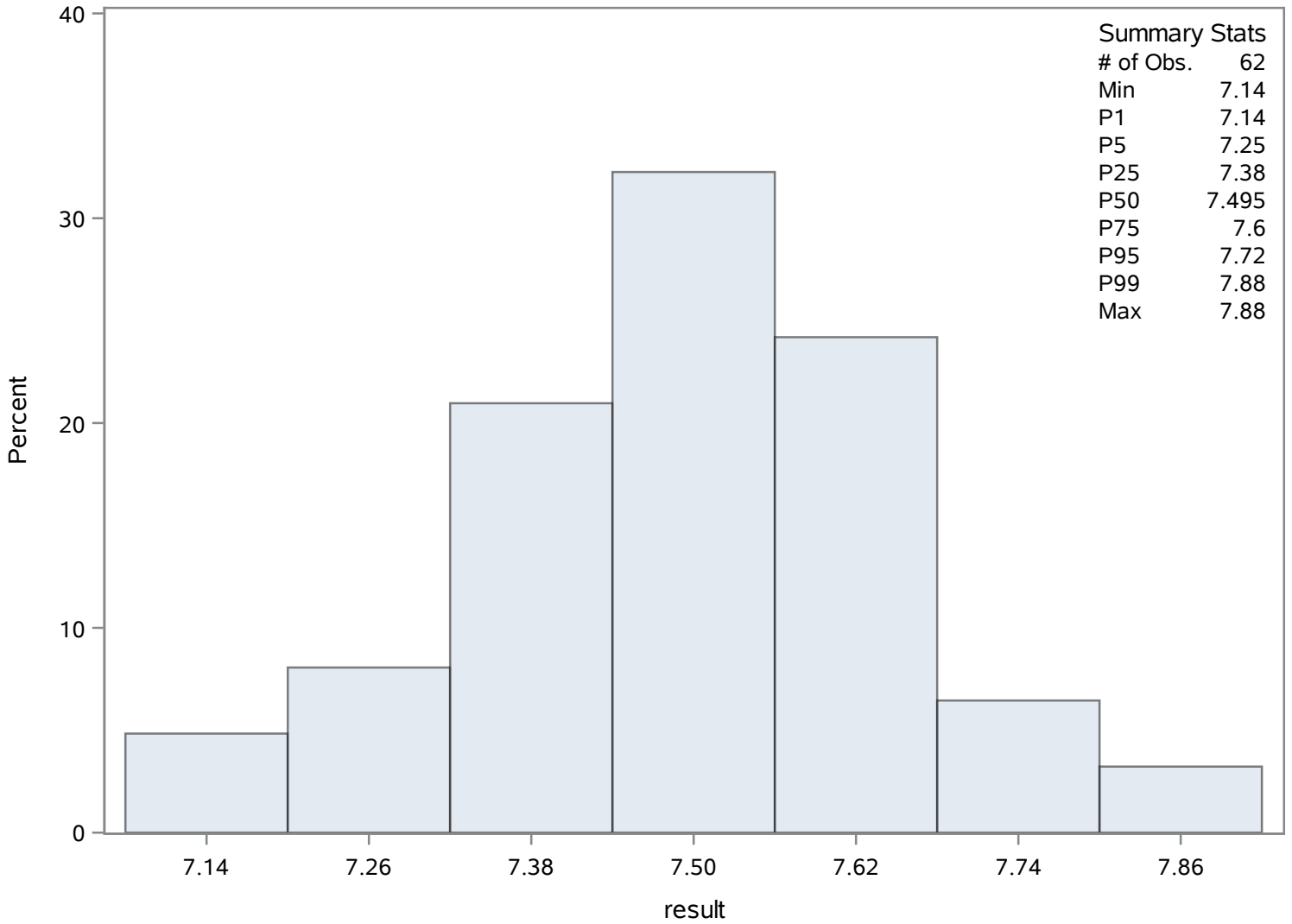
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.14	1404	7.70	1416
7.14	1403	7.72	1372
7.19	1386	7.74	1382
7.25	1394	7.85	1360
7.26	1387	7.88	1367

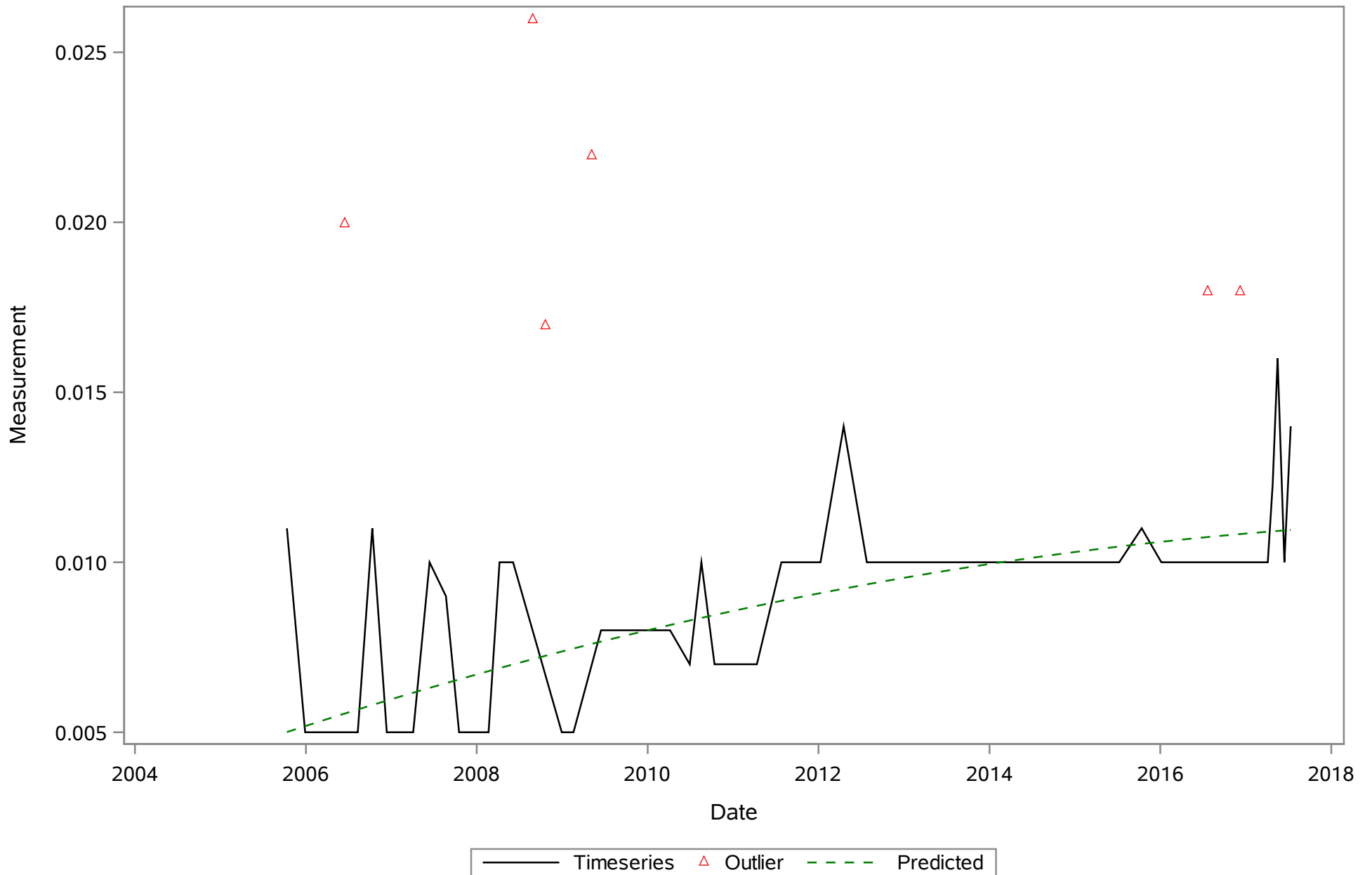
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
pH (Total) SU

The UNIVARIATE Procedure

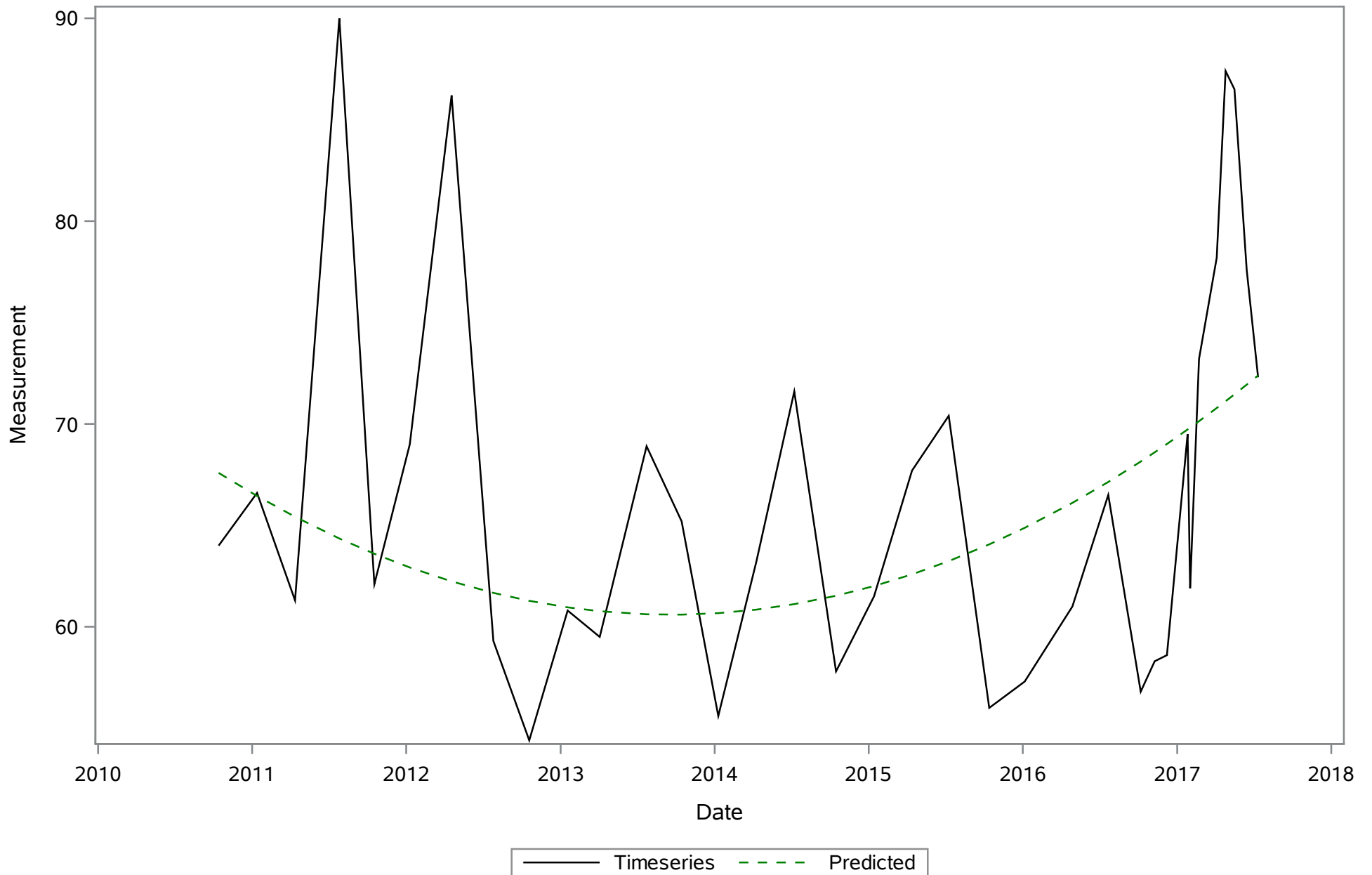
Distribution of result



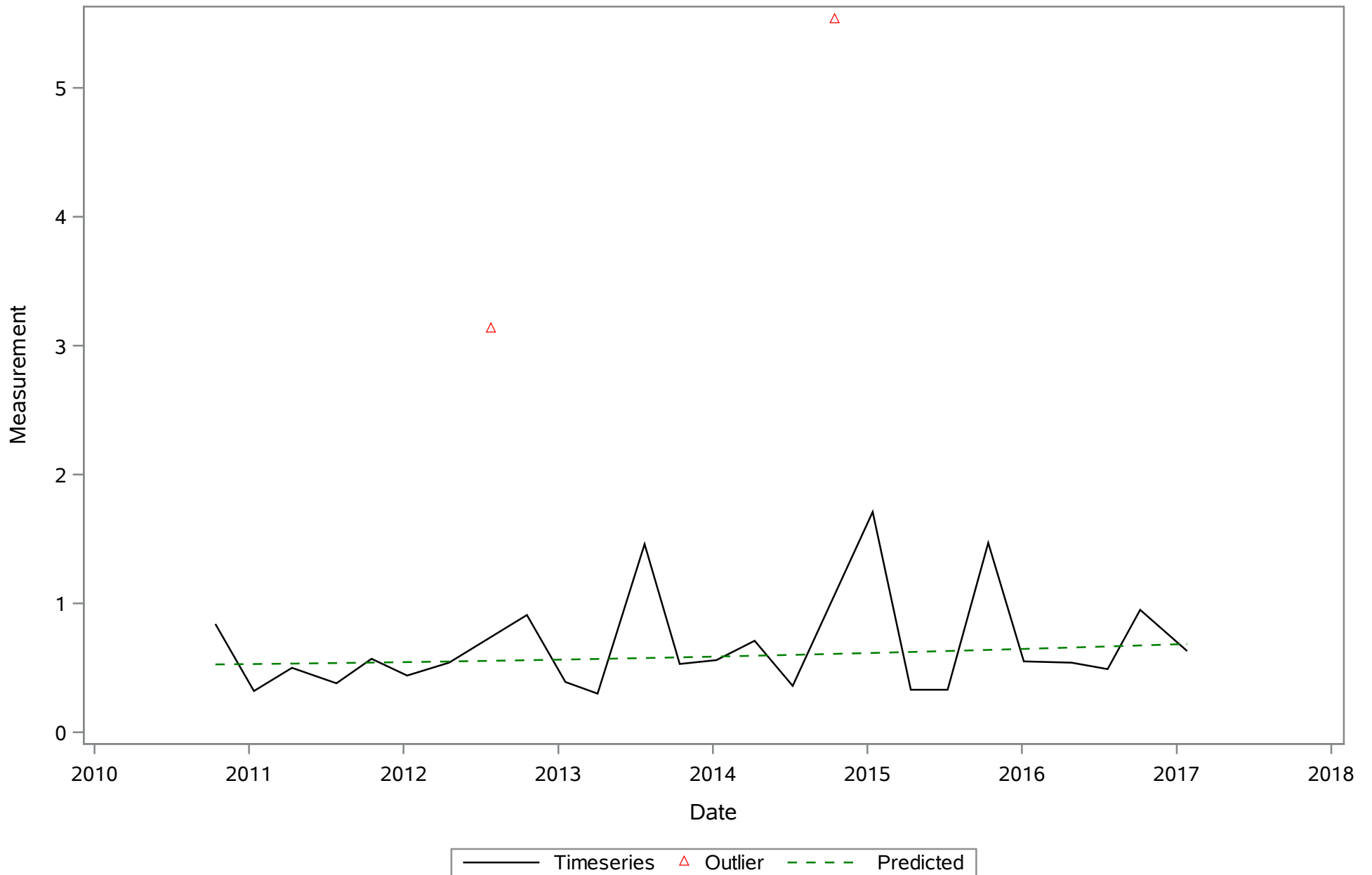
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Ammonia (N) (Total) mg/L



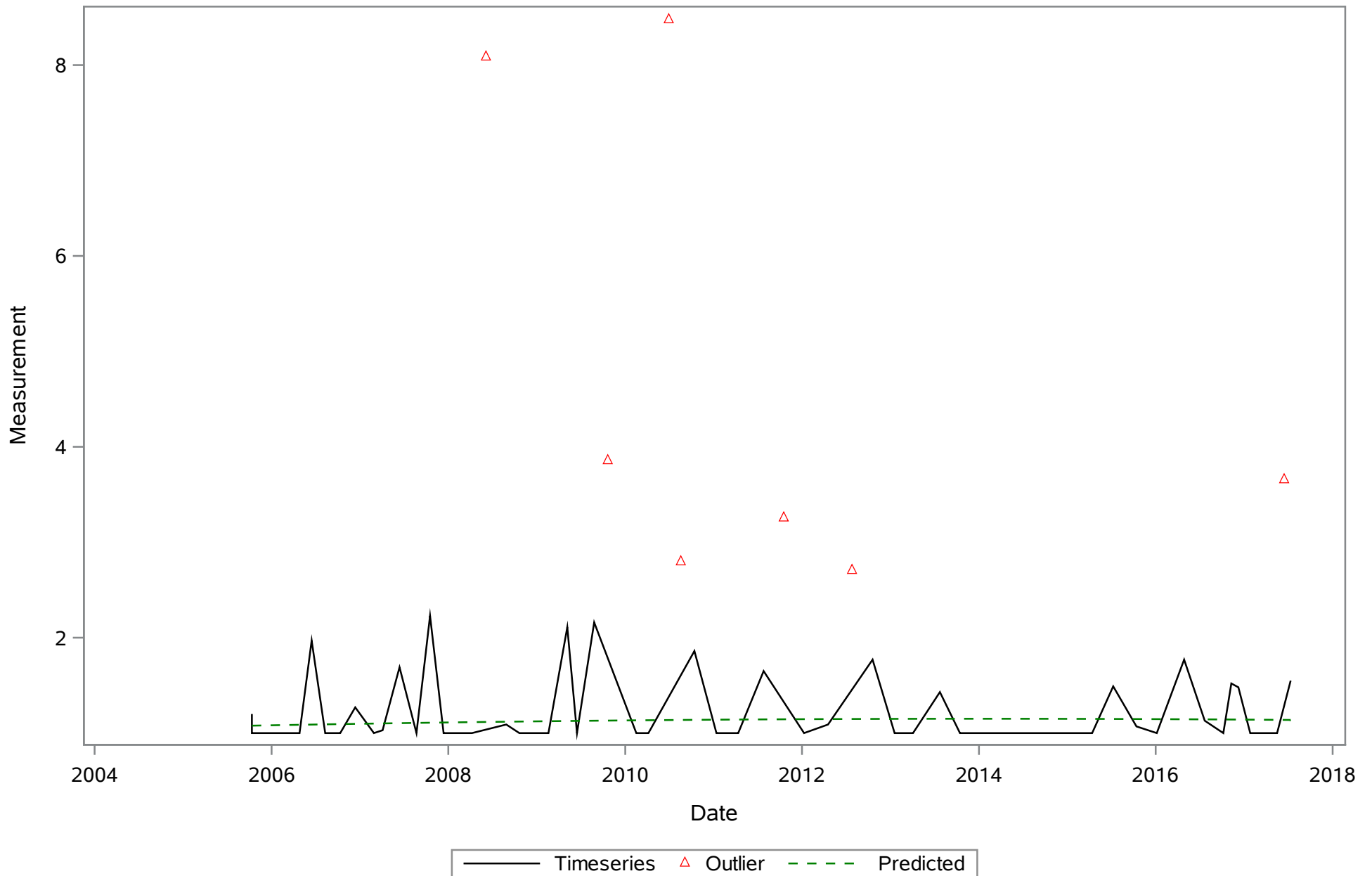
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Calcium (Dissolved) mg/L



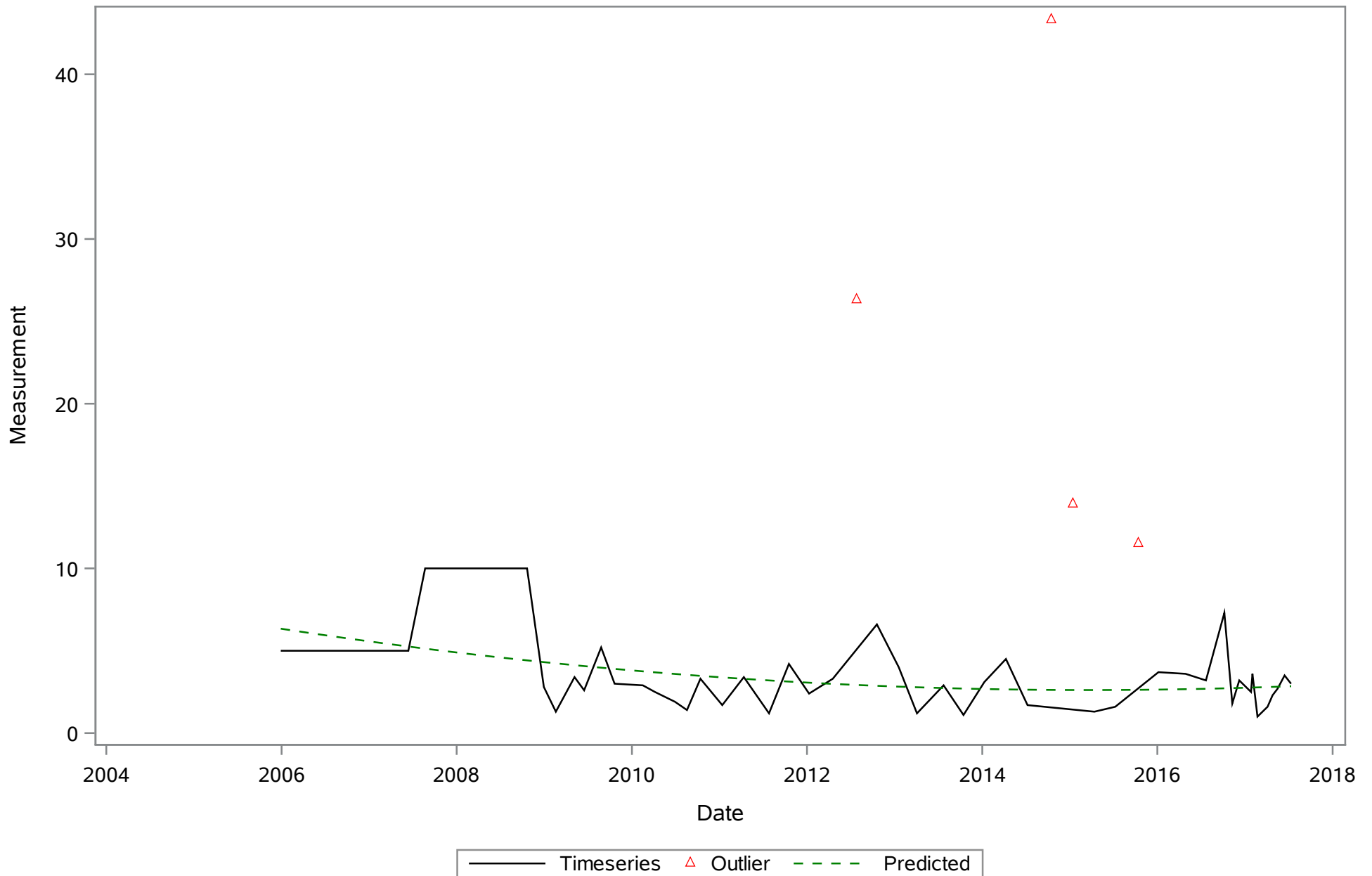
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Carbon- Total Organic (Total) mg/L



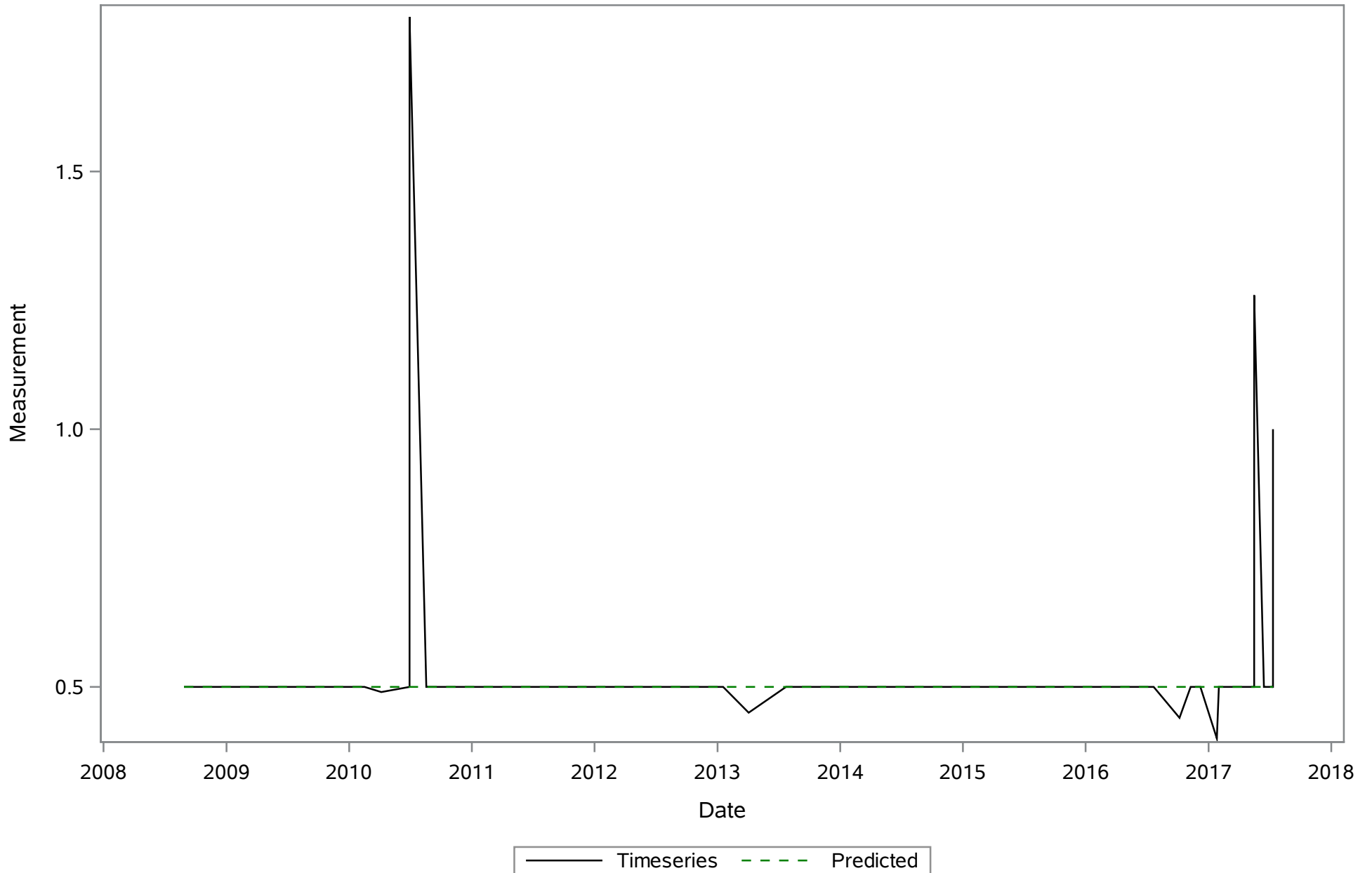
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Chlorophyll a (Total) ug/L



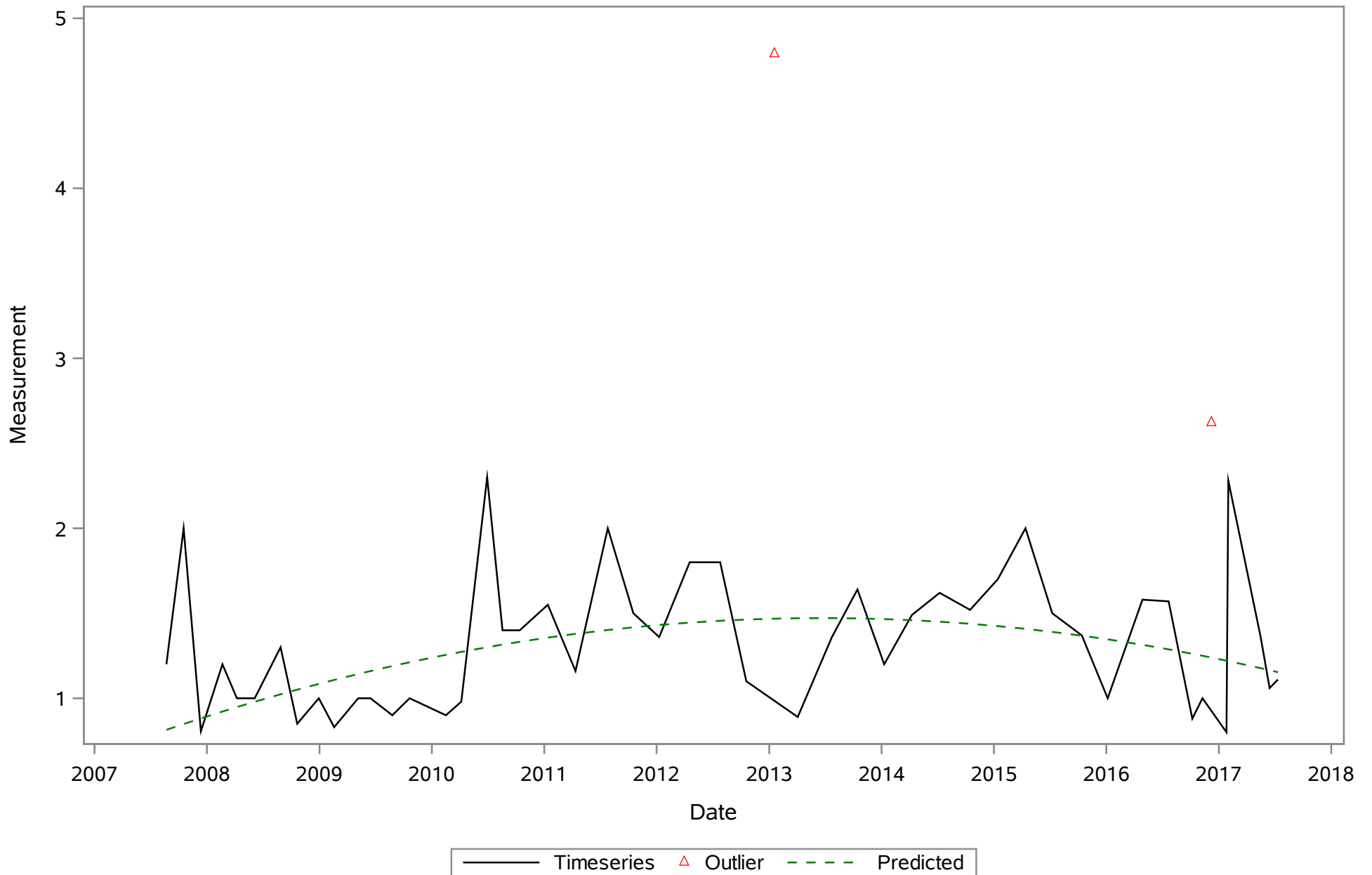
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Color (Dissolved) PCU



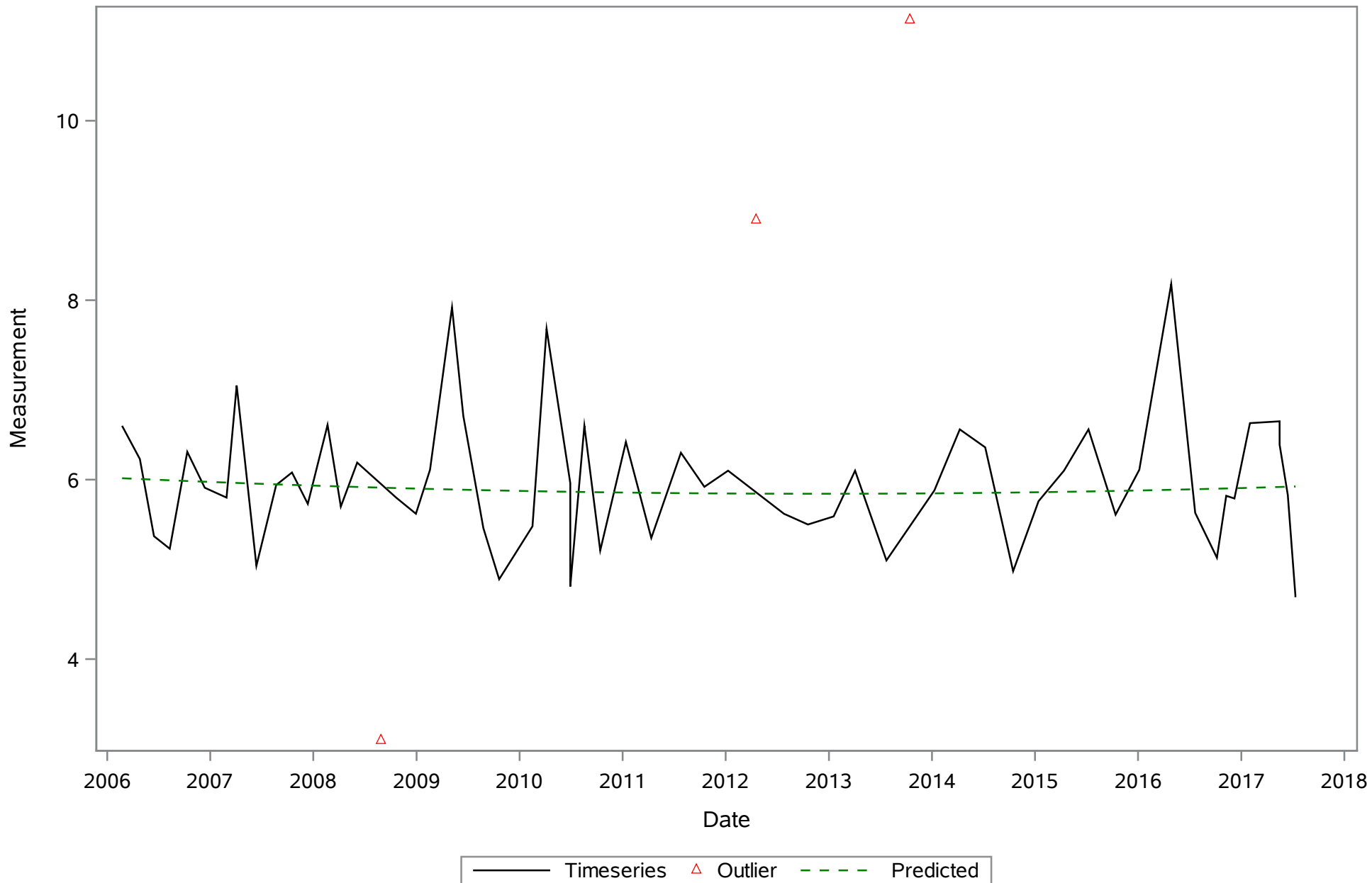
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth (Total) Meters



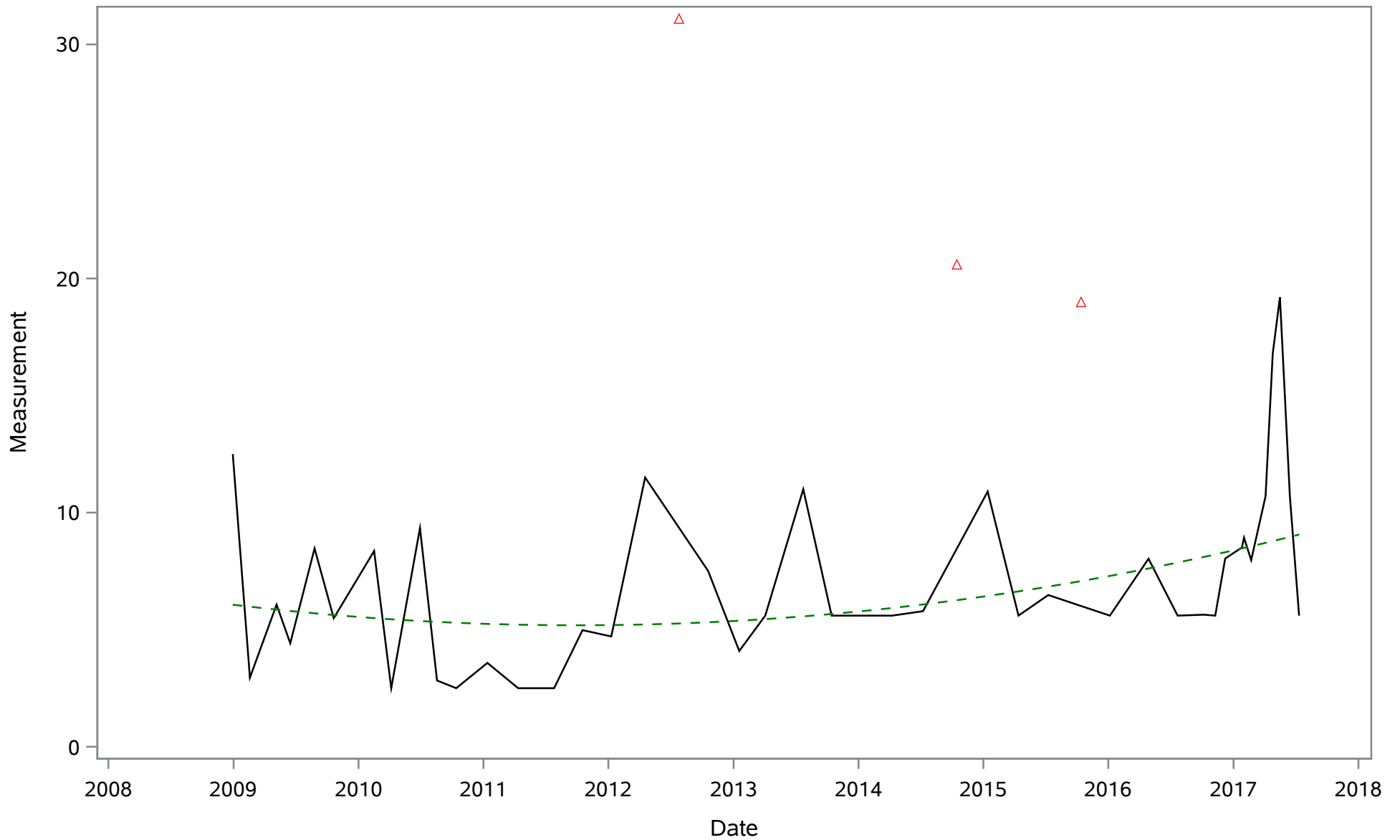
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth, bottom (Total) Meters



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Dissolved Oxygen (Total) mg/L

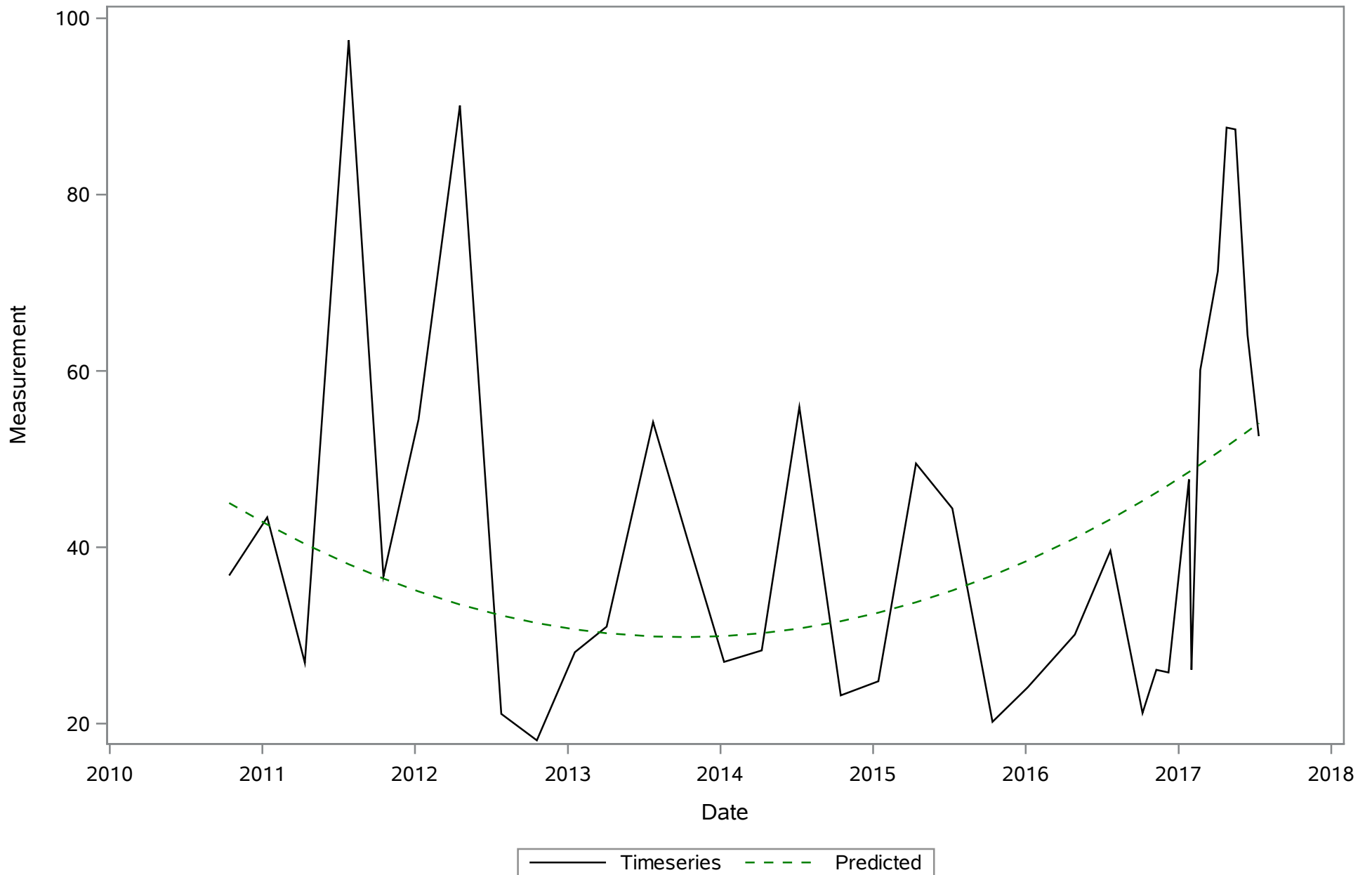


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Iron (Dissolved) ug/L

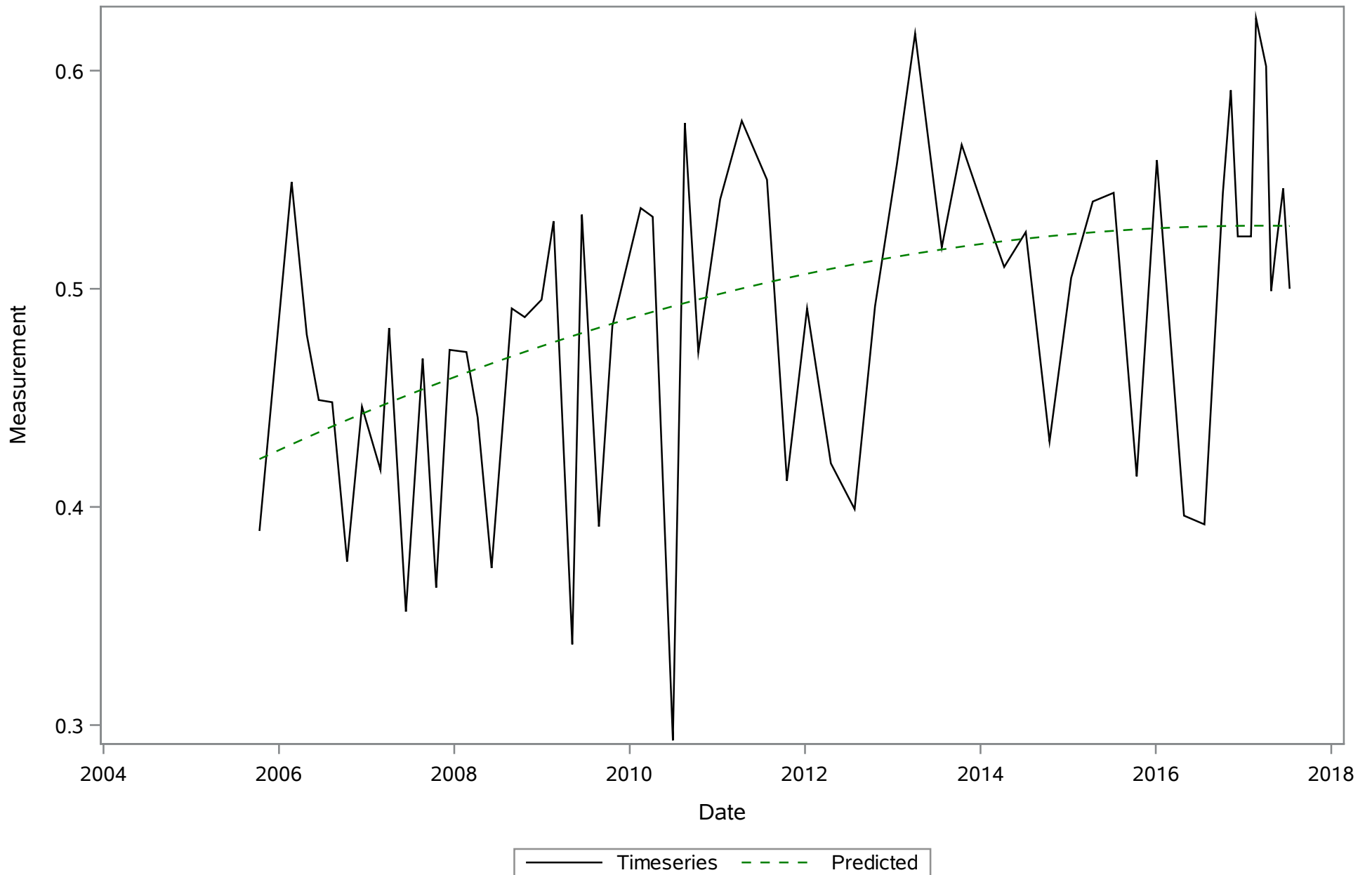


— Timeseries △ Outlier - - - Predicted

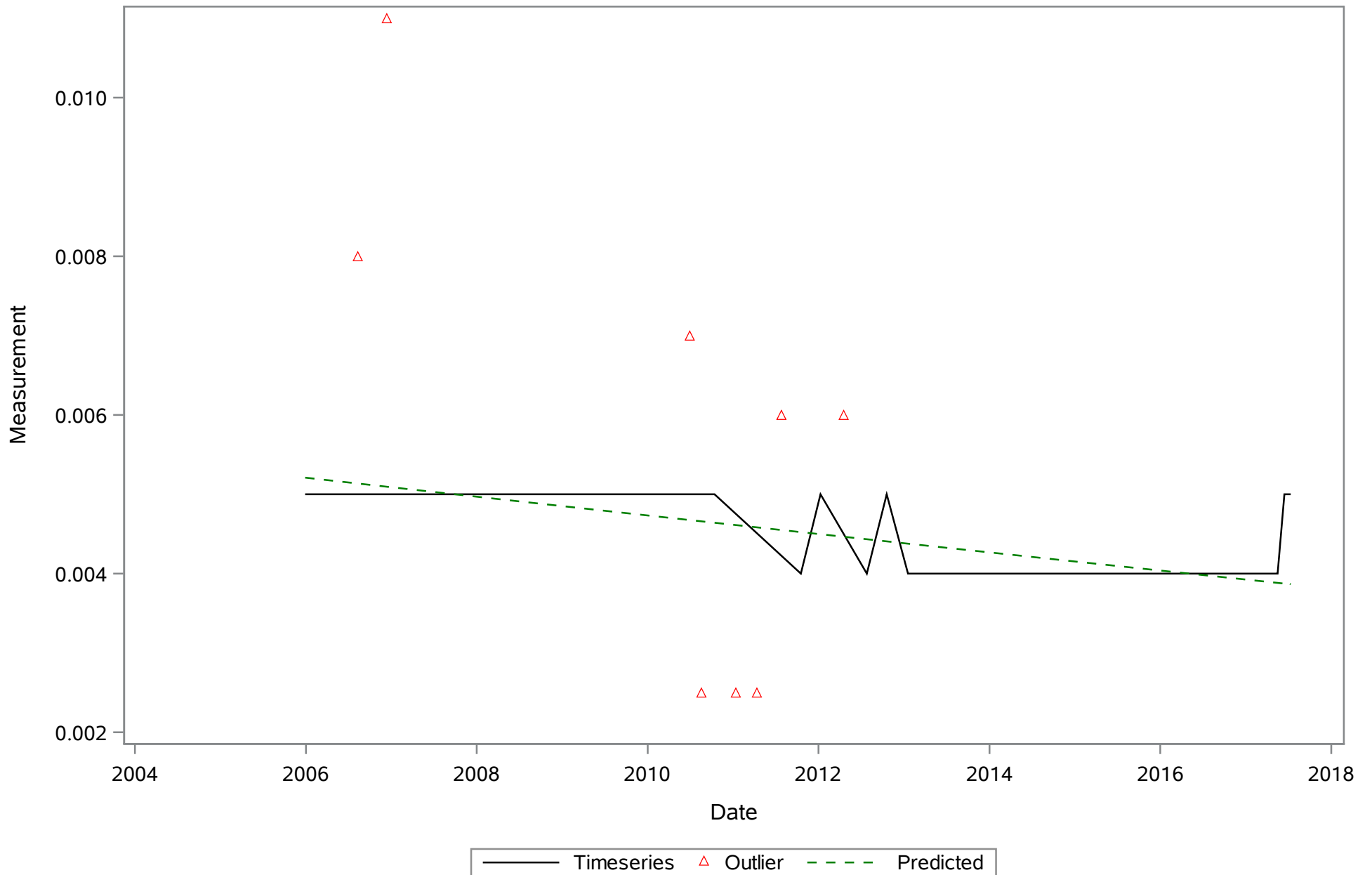
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Magnesium (Dissolved) mg/L



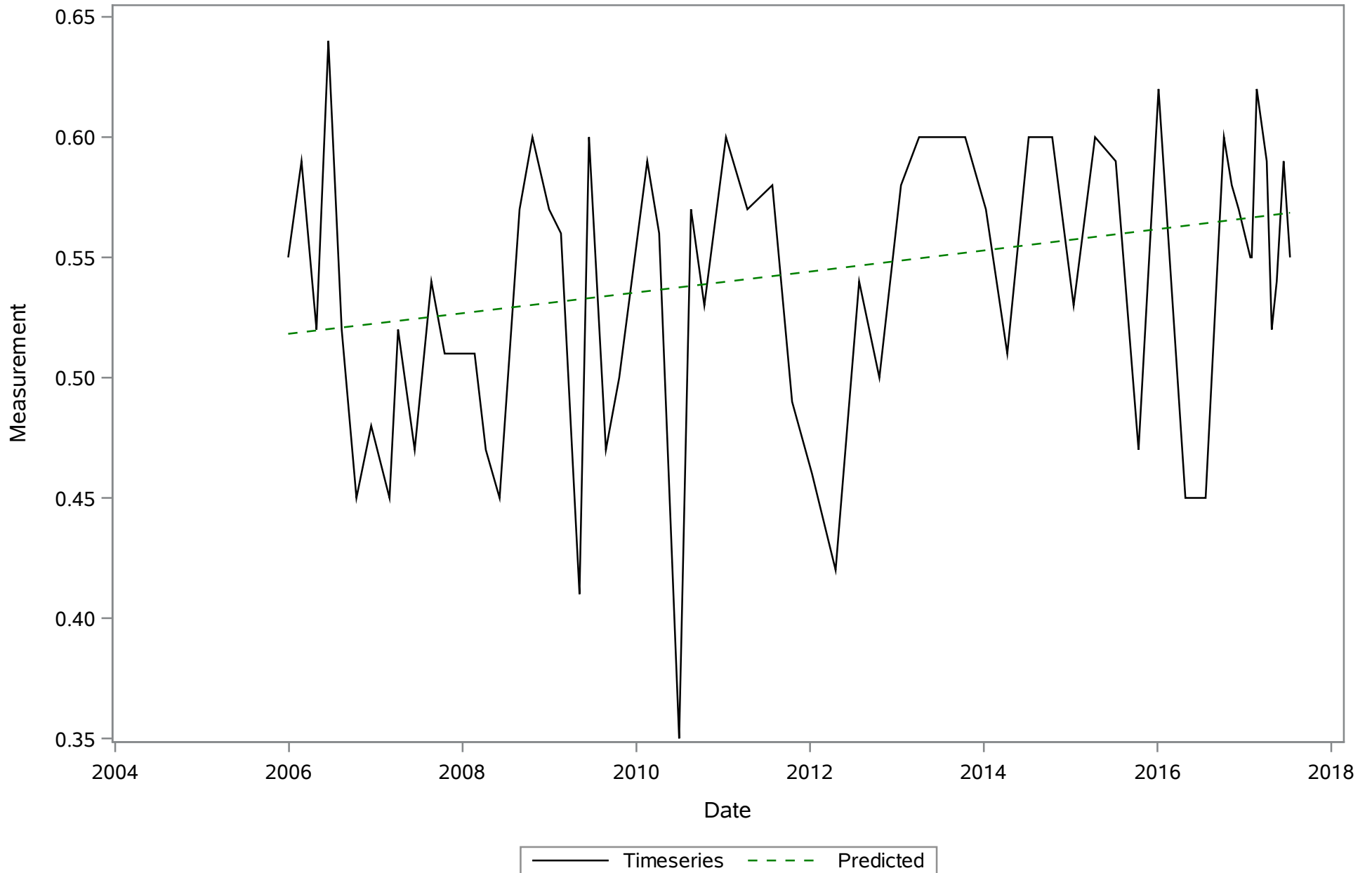
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrate-Nitrite (N) (Total) mg/L



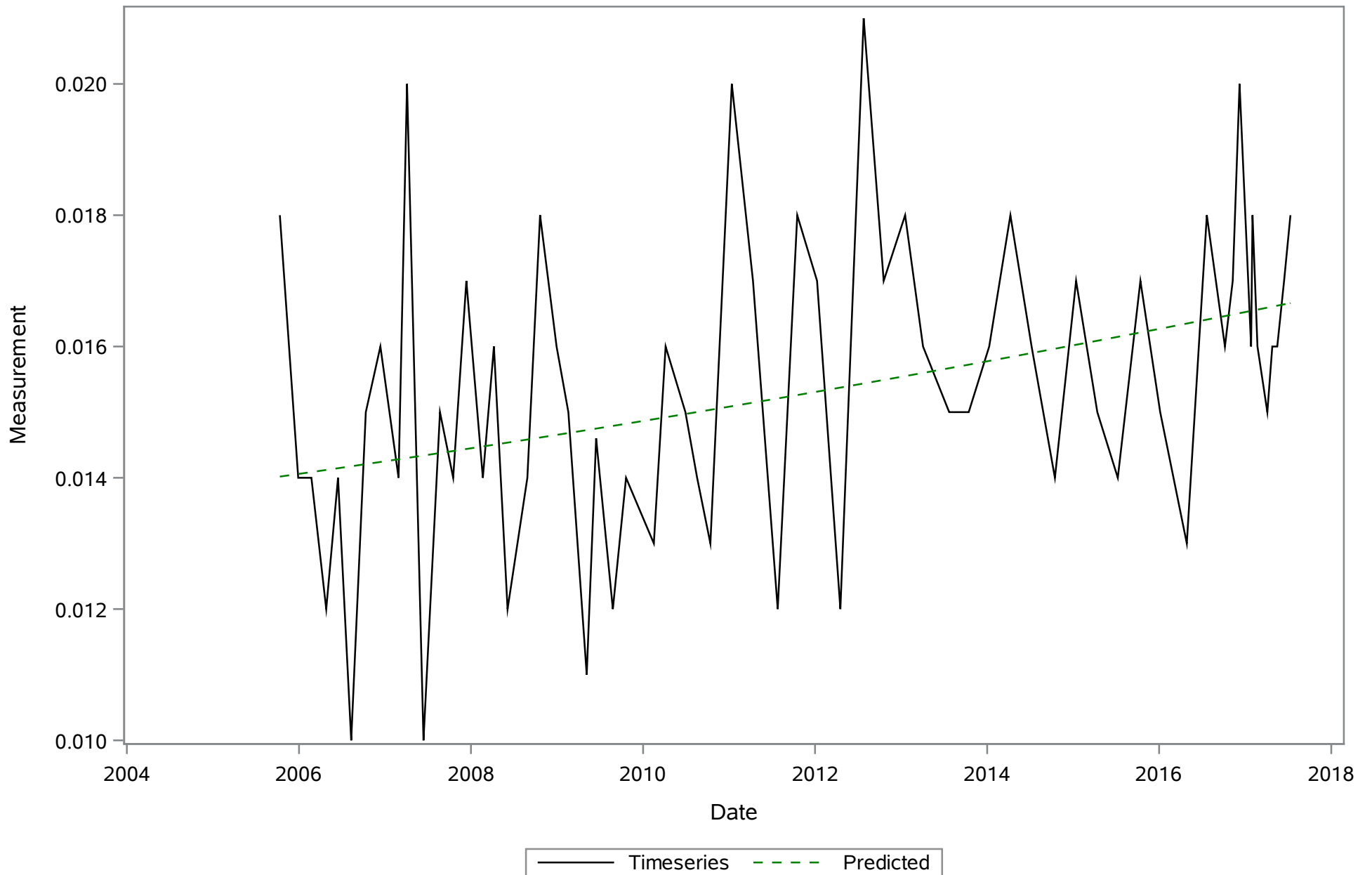
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrite (N) (Total) mg/L



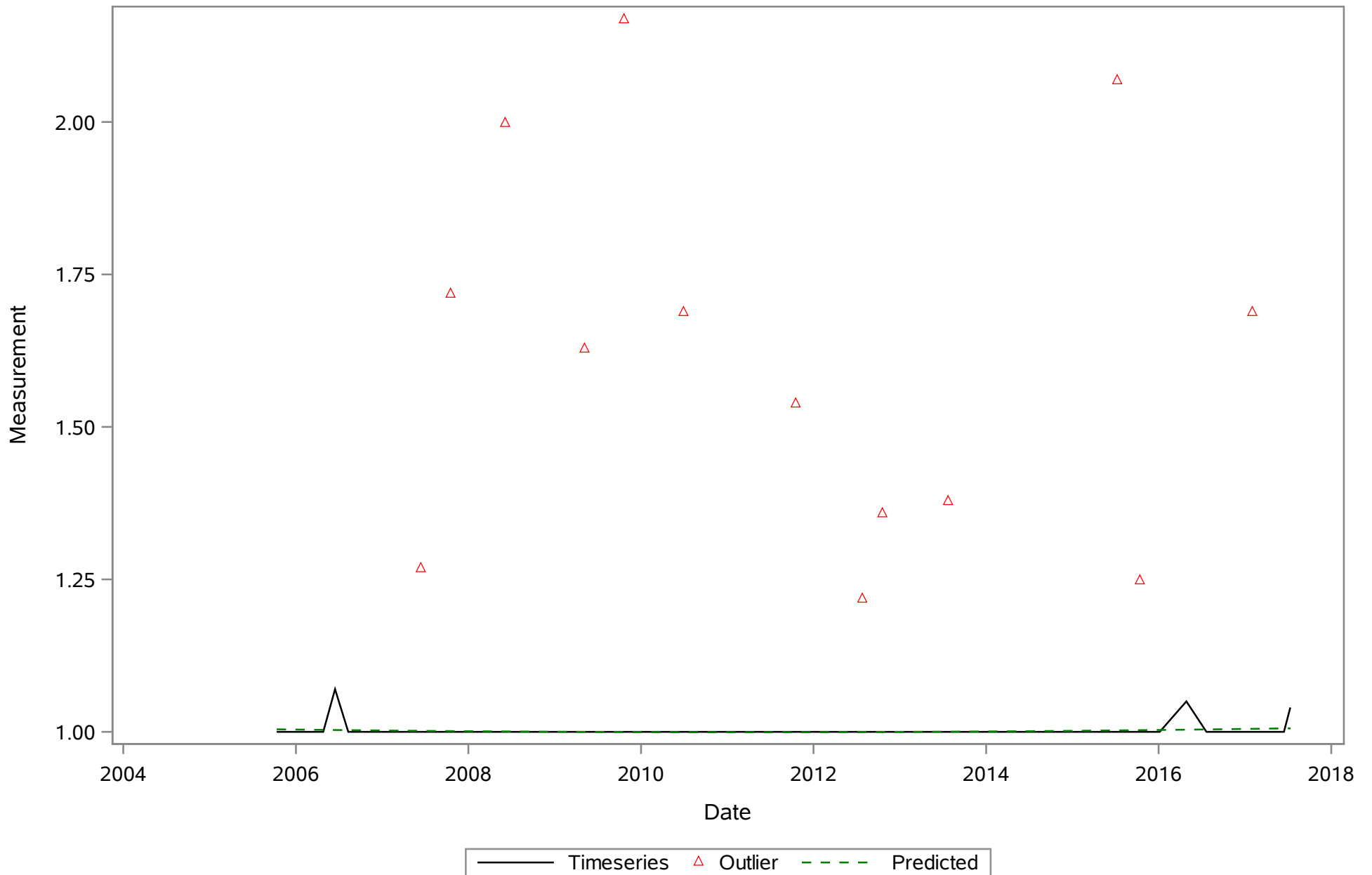
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrogen- Total (Total) mg/L



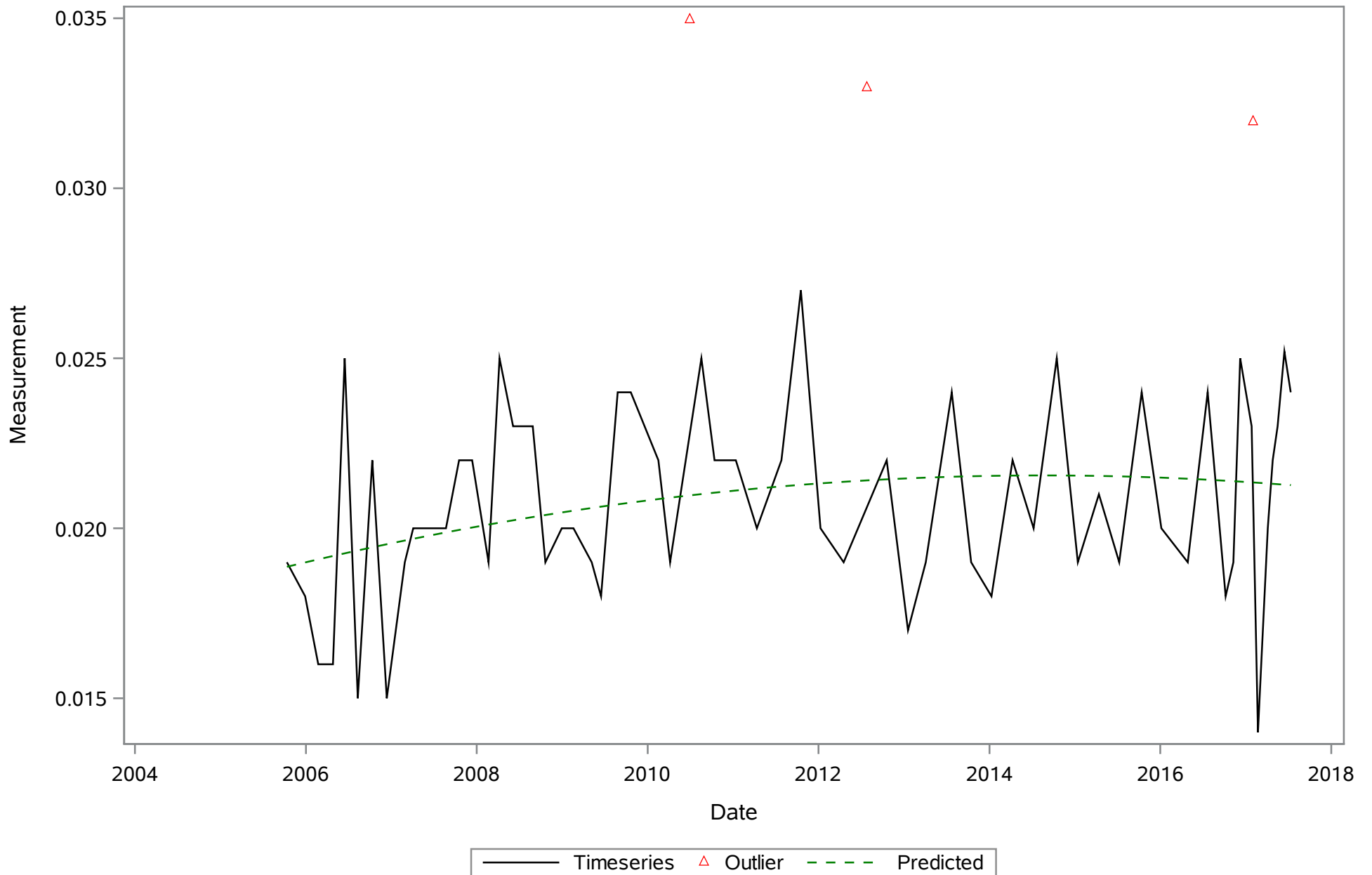
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Orthophosphate (P) (Dissolved) mg/L



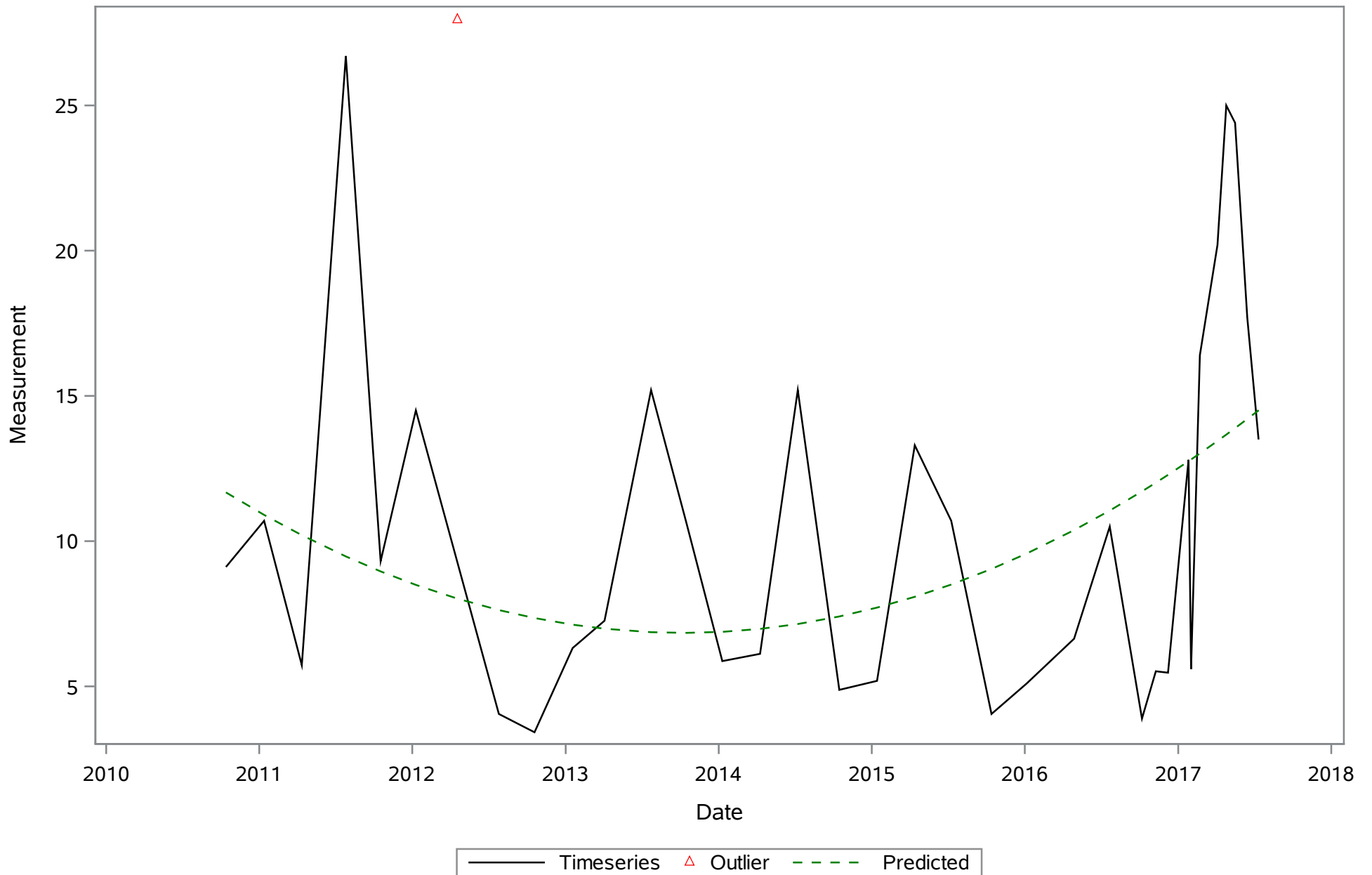
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phaeophytin (Total) ug/L



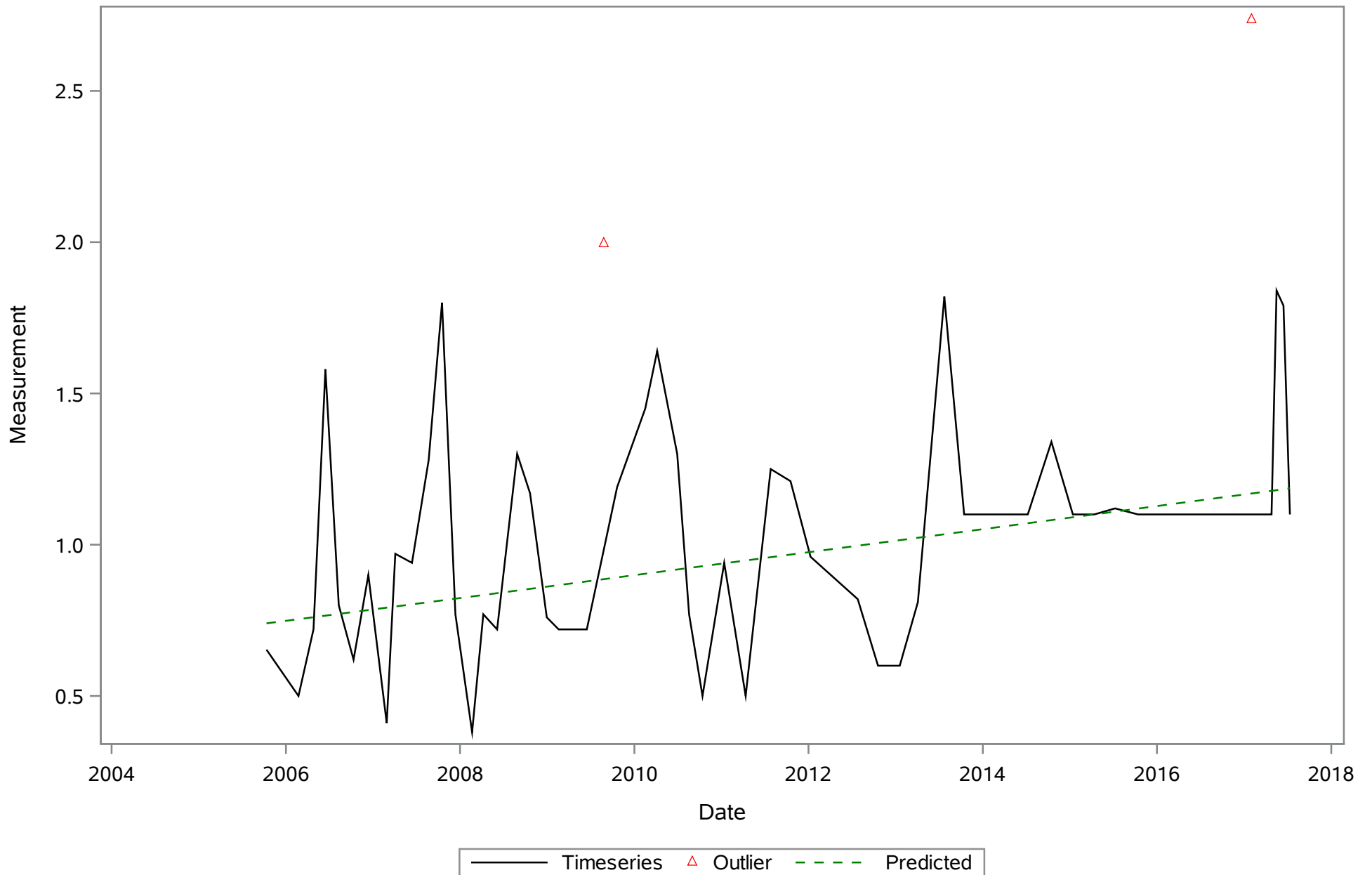
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phosphorus- Total (Total) mg/L



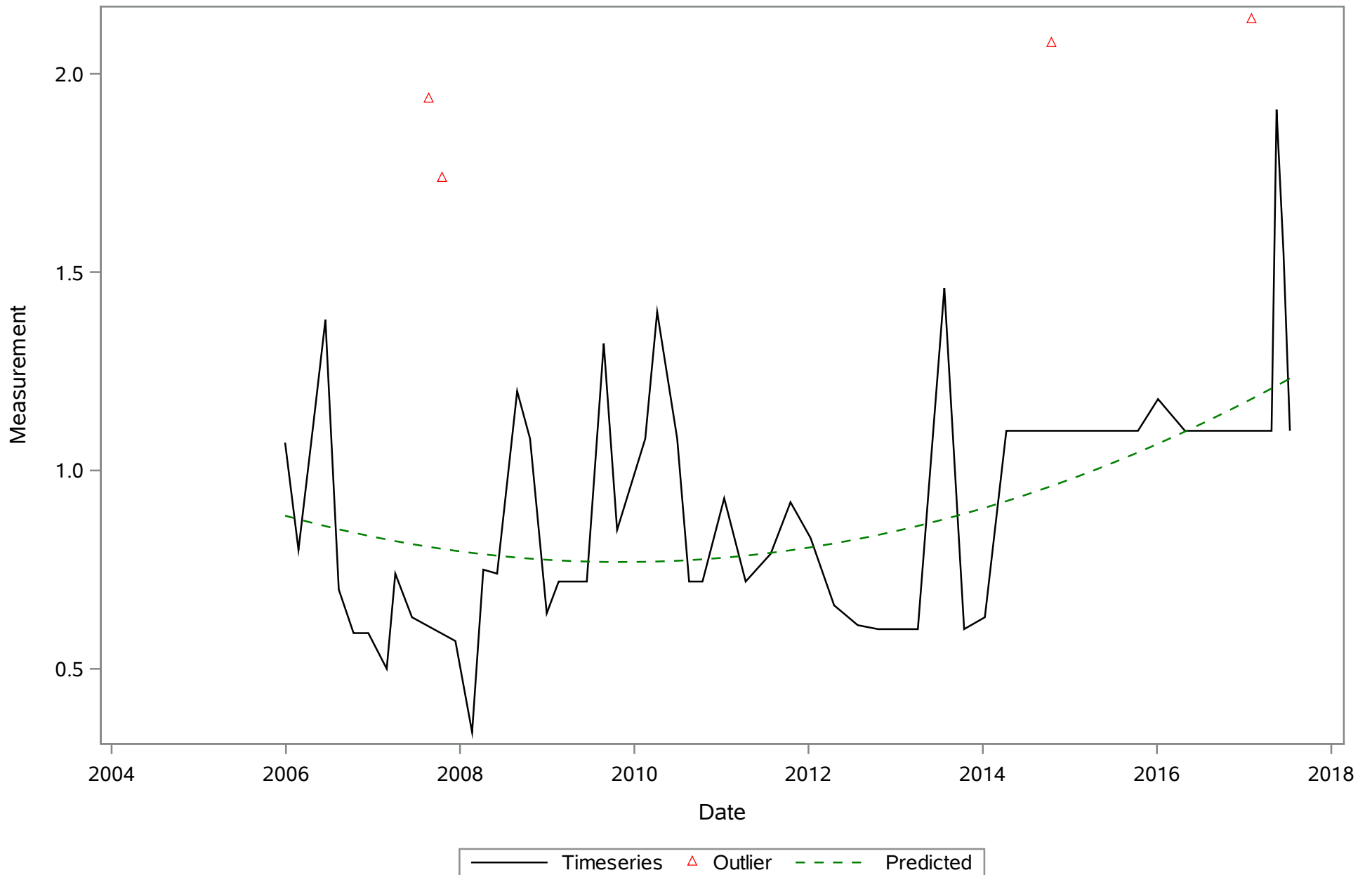
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Potassium (Dissolved) mg/L



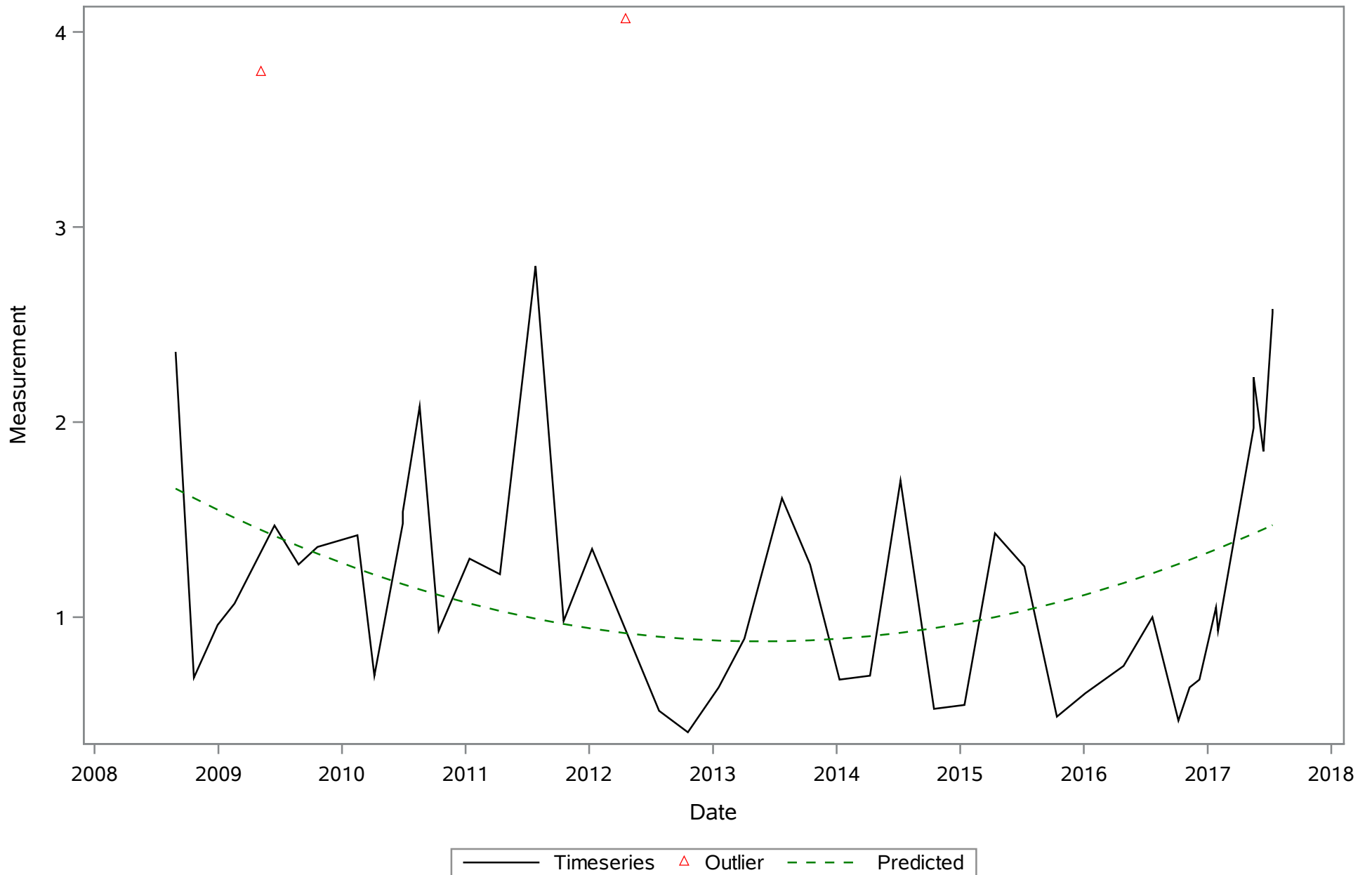
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Nonfilterable (TSS) (Total) mg/L



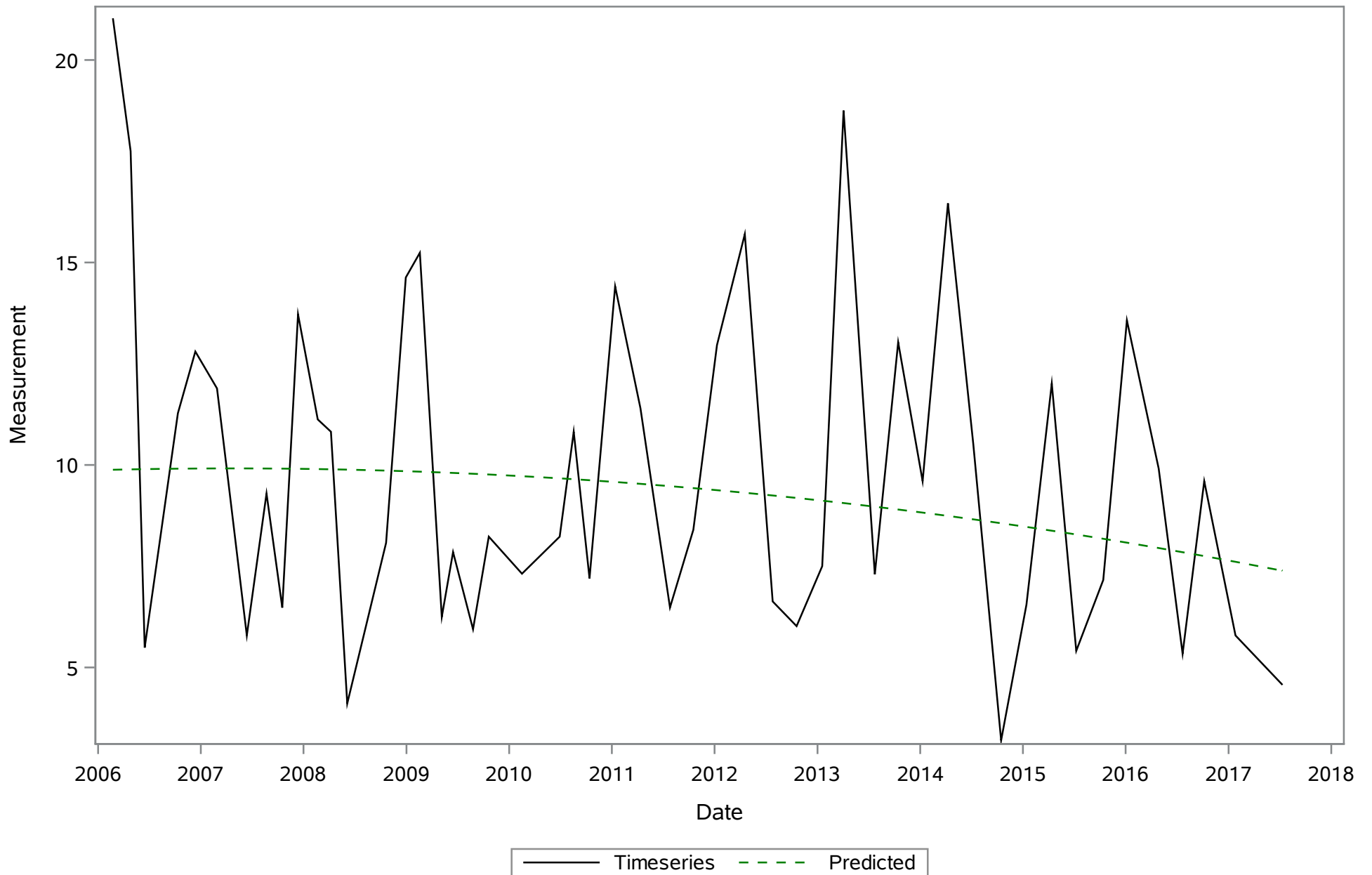
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Volatile (Total) mg/L



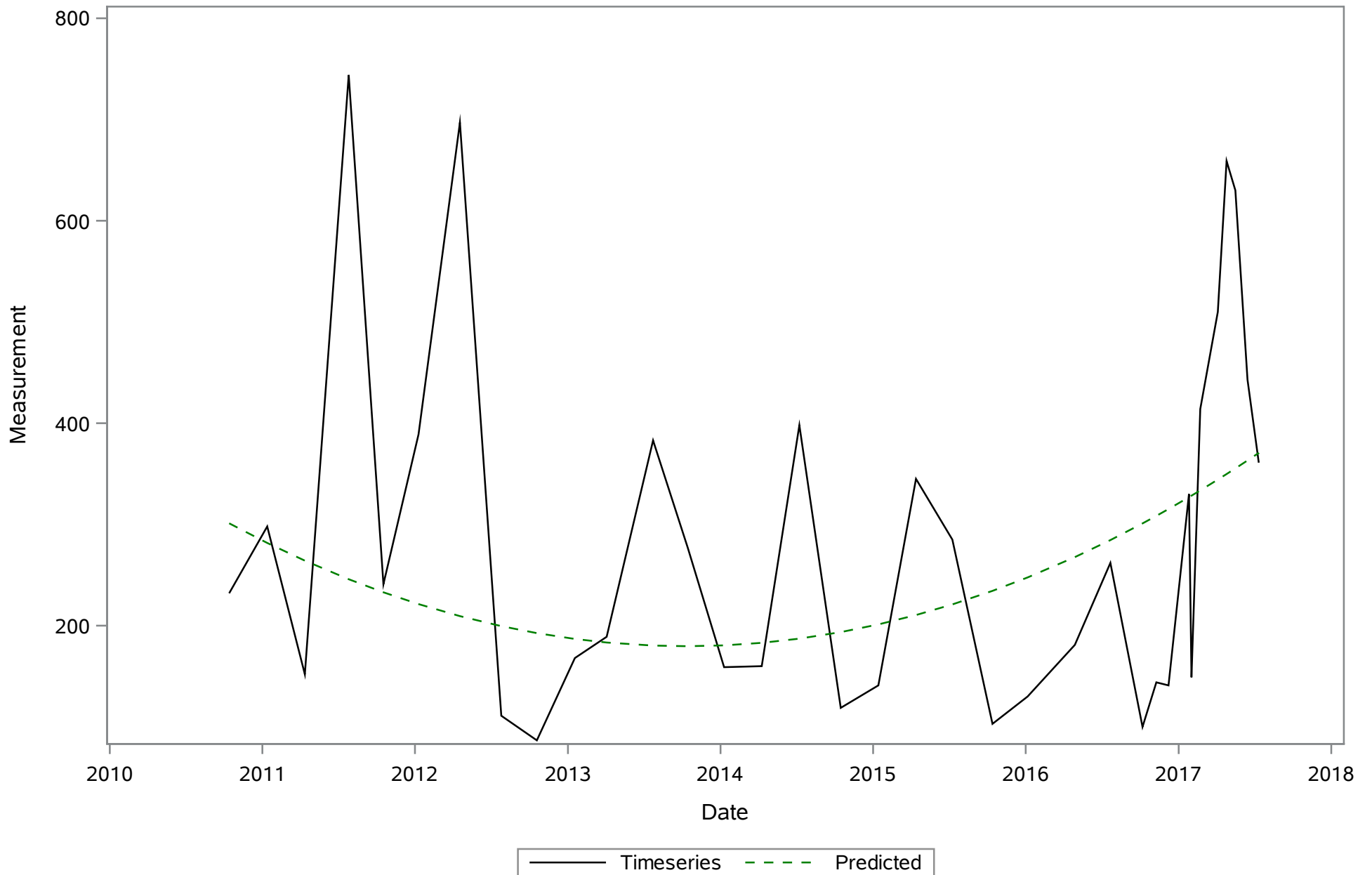
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Salinity (Total) ppt



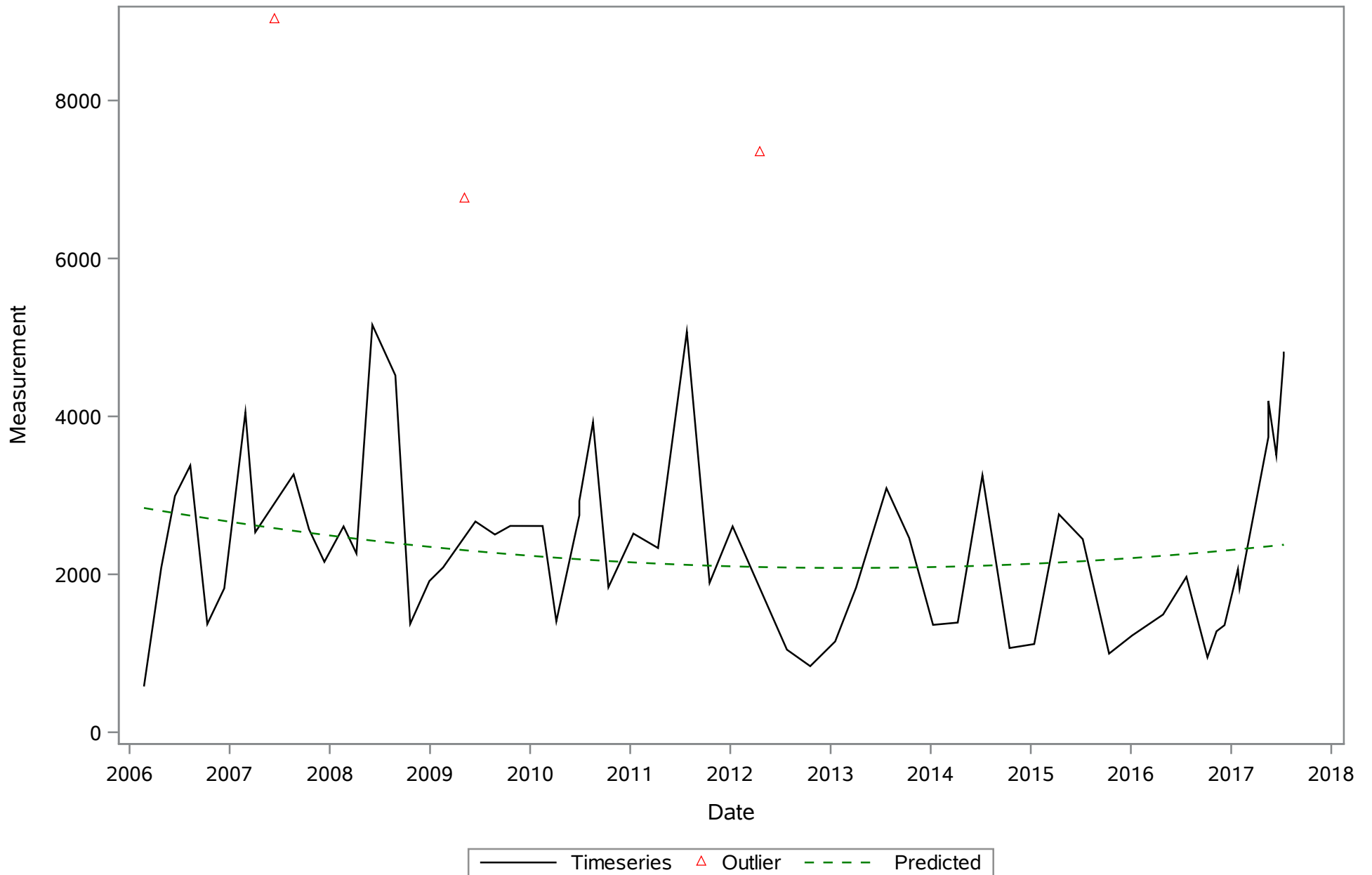
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Secchi-horizontal (Total) Meters



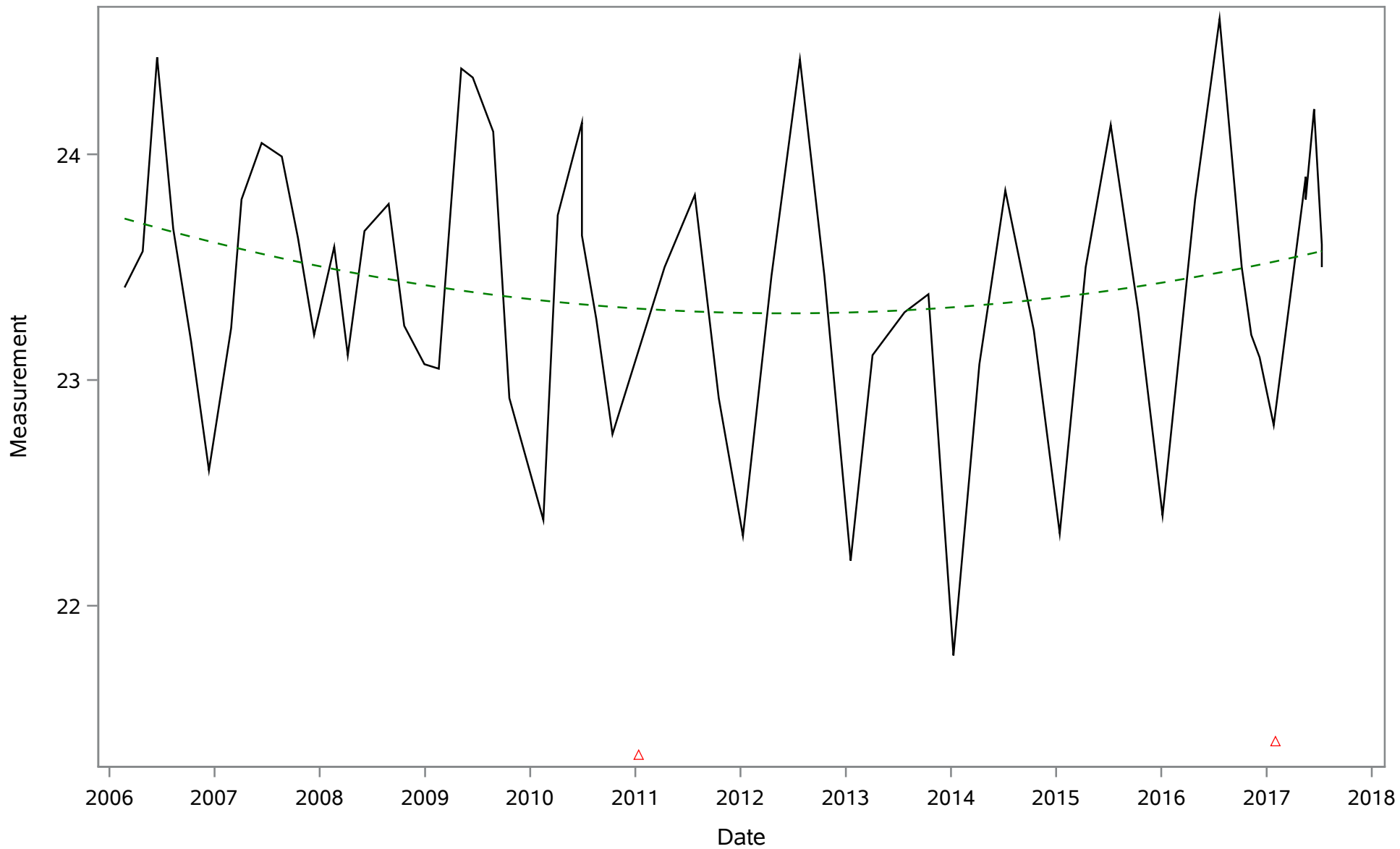
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Sodium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Specific Conductance (Total) uS/cm

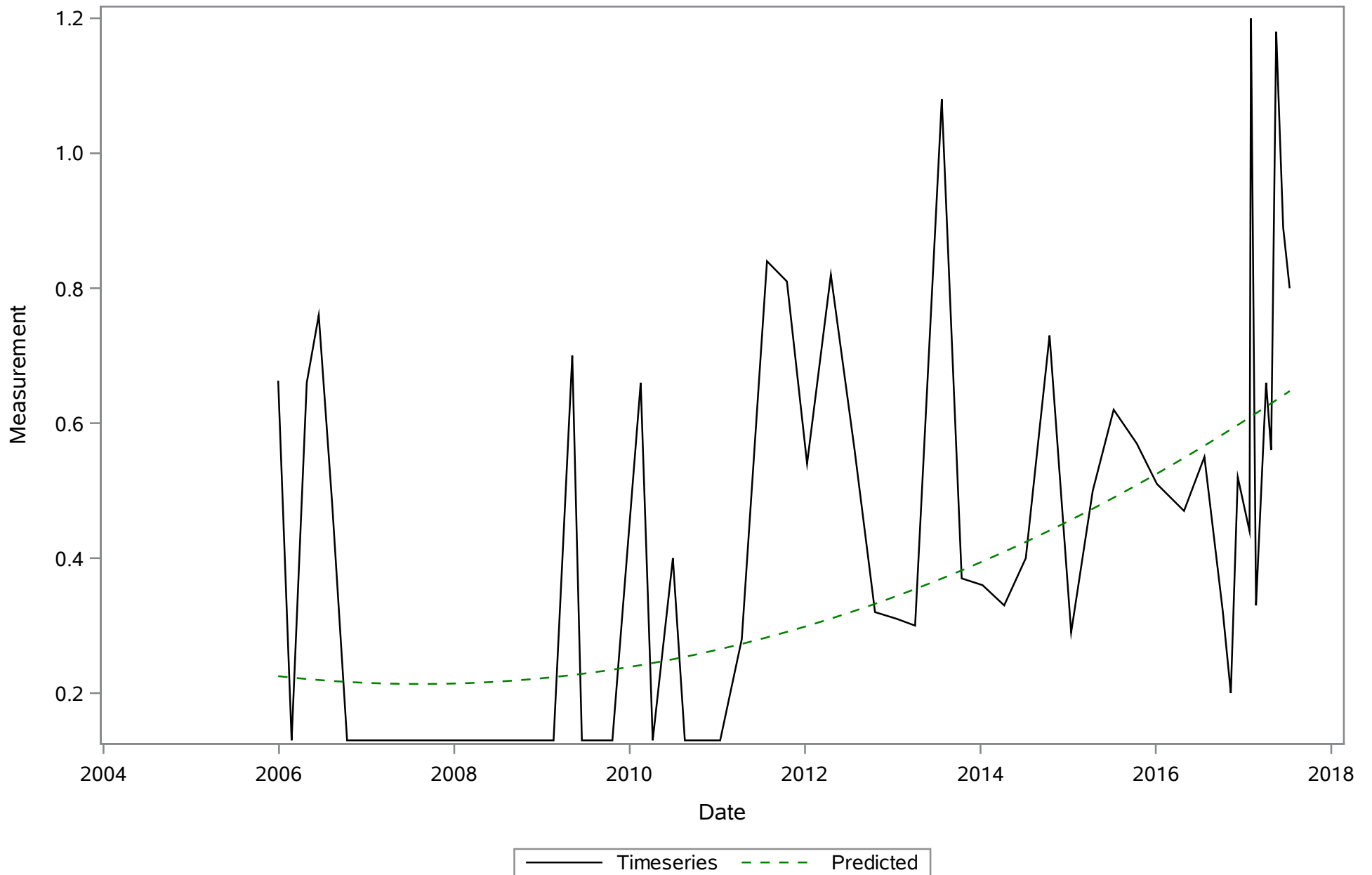


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Temperature (Total) Deg. C

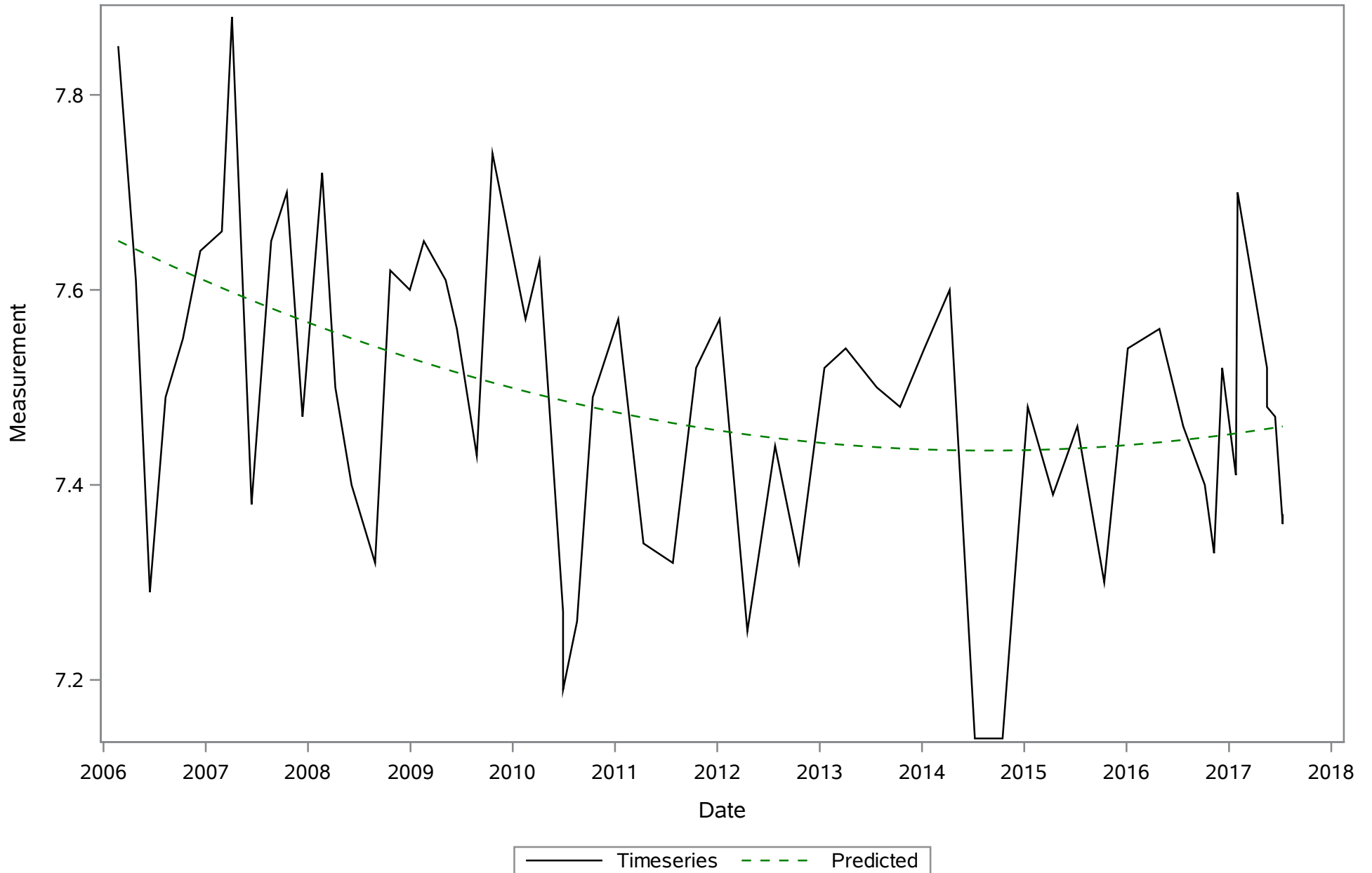


— Timeseries △ Outlier - - - Predicted

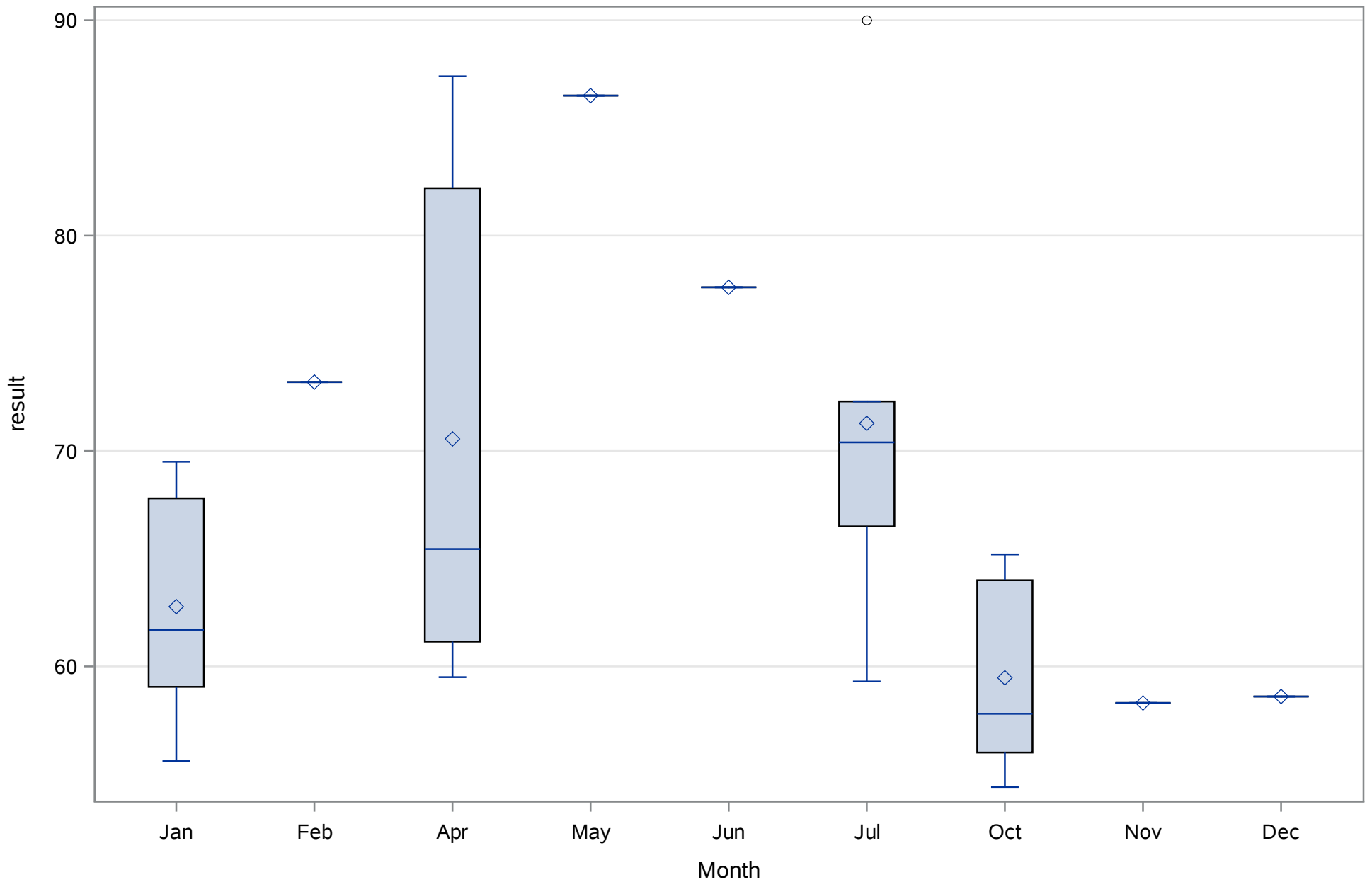
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Turbidity (Total) NTU



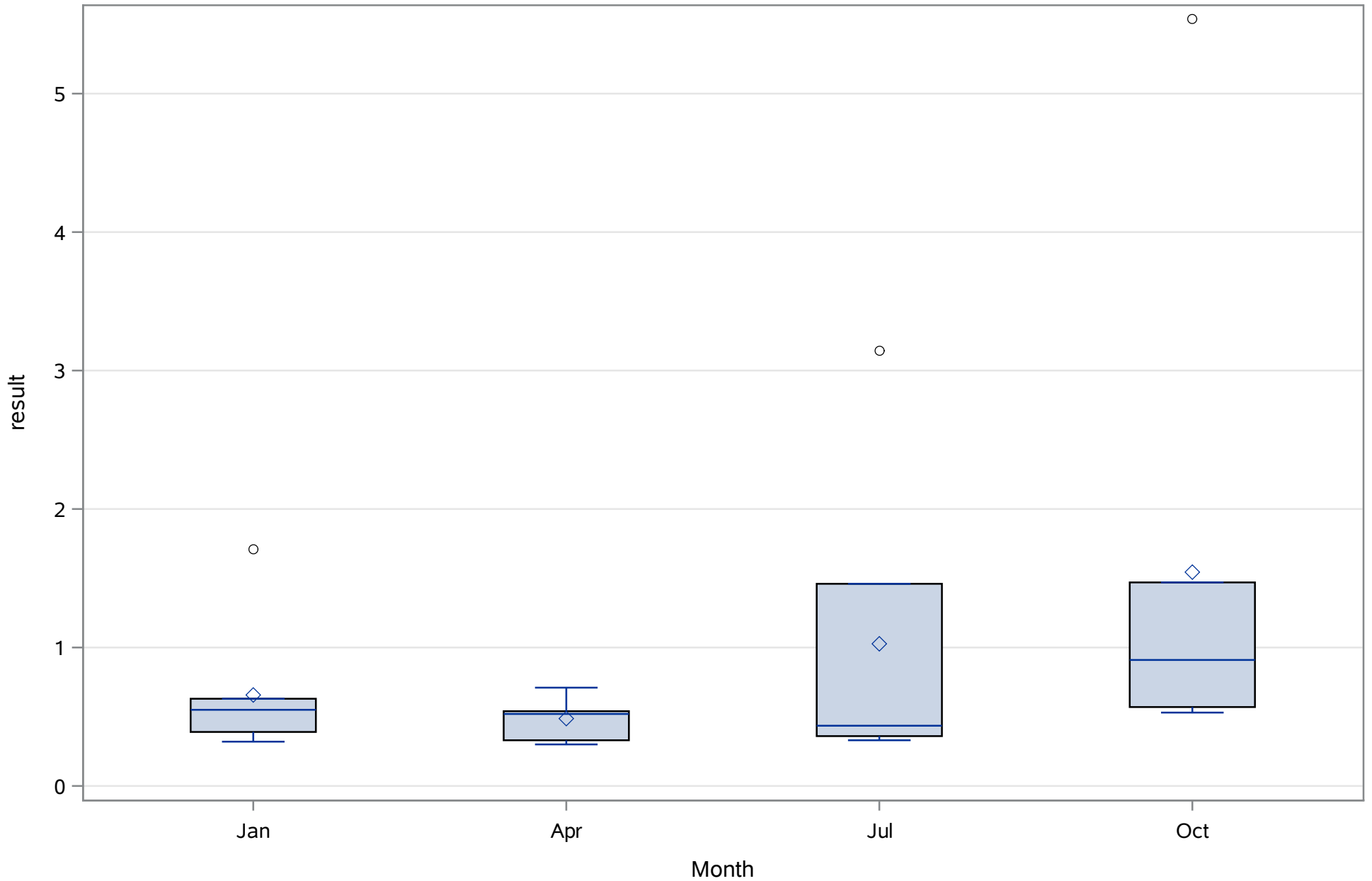
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
pH (Total) SU



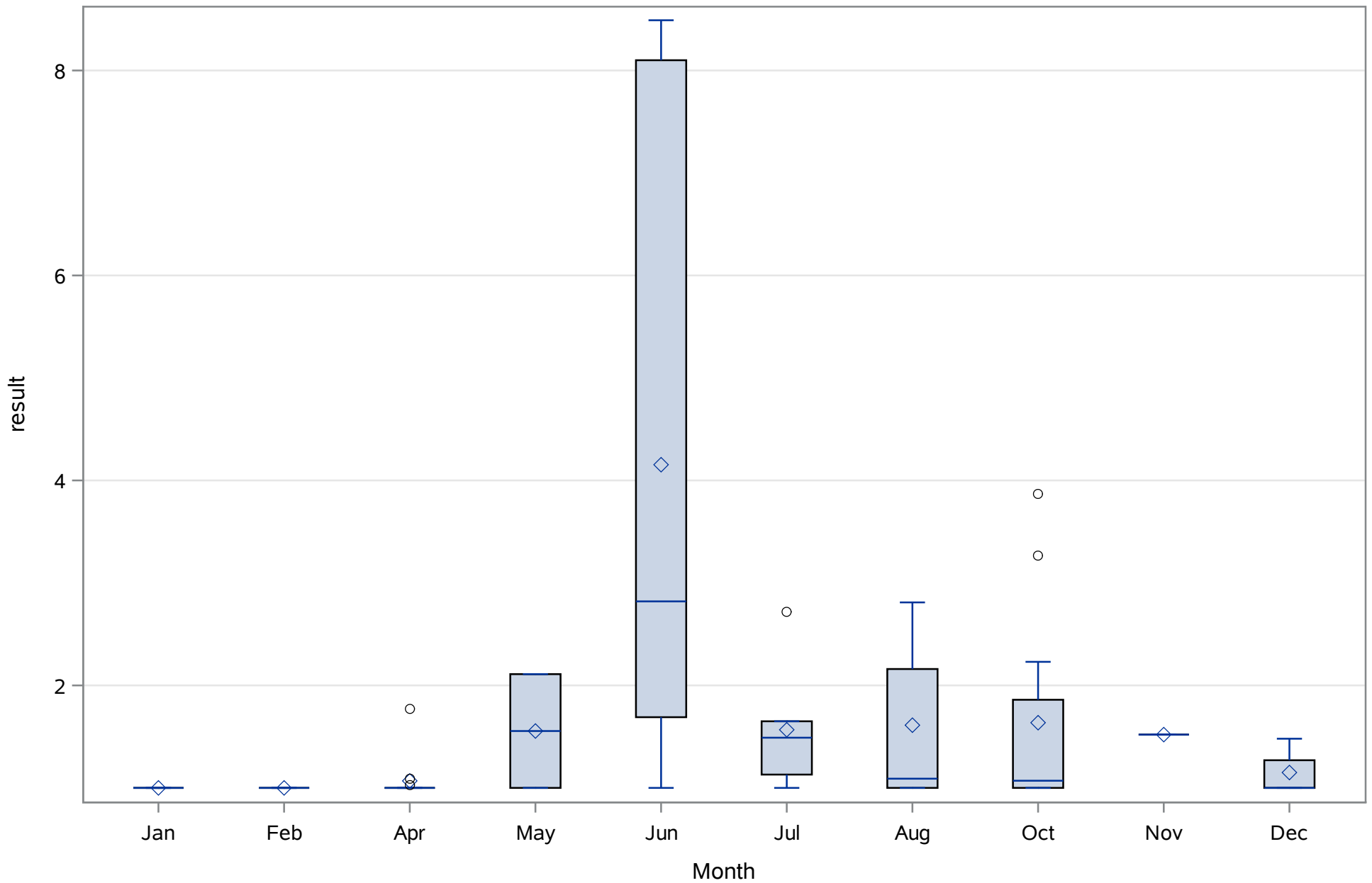
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Calcium (Dissolved) mg/L



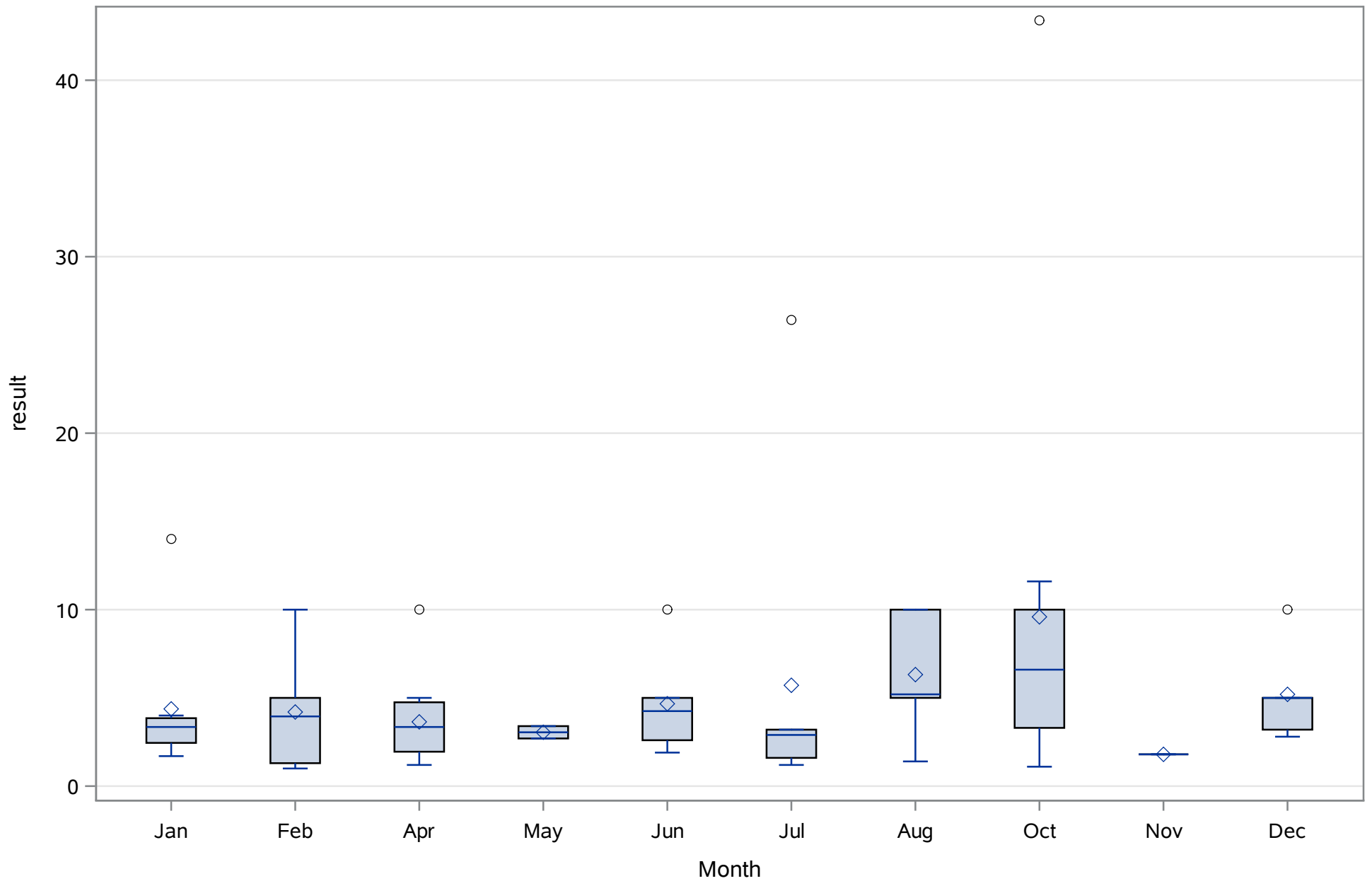
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Carbon- Total Organic (Total) mg/L



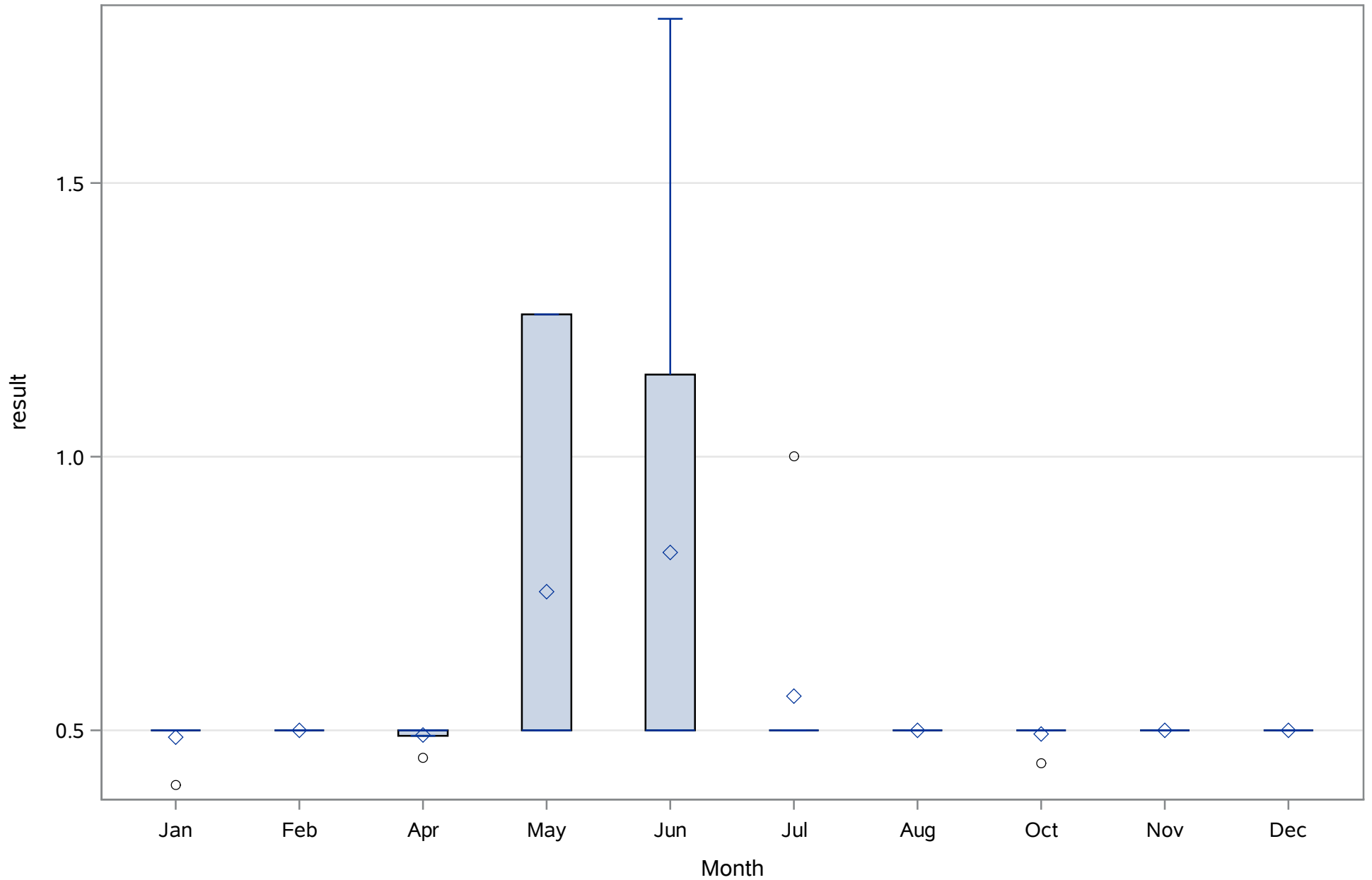
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Chlorophyll a (Total) ug/L



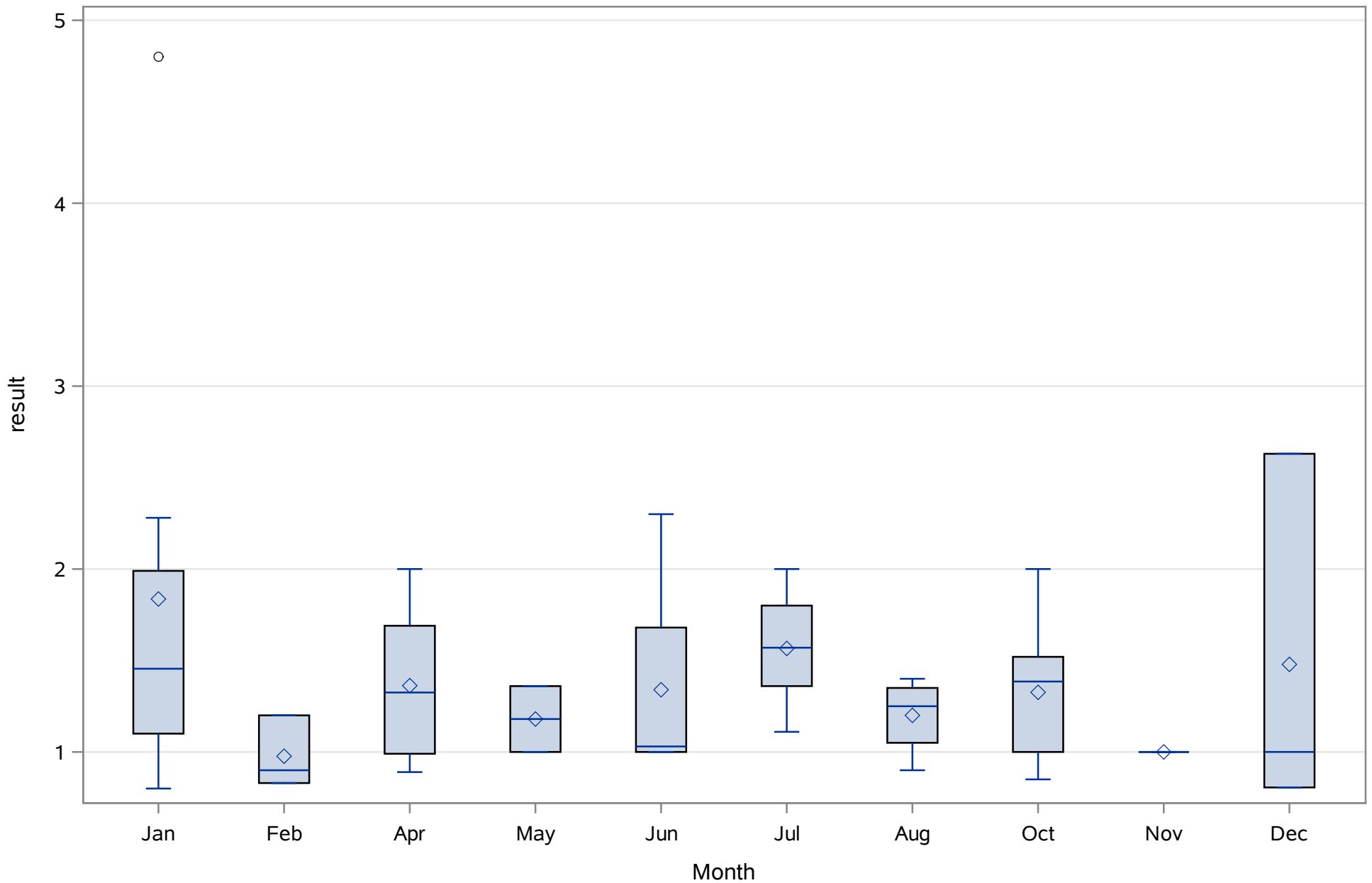
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Color (Dissolved) PCU



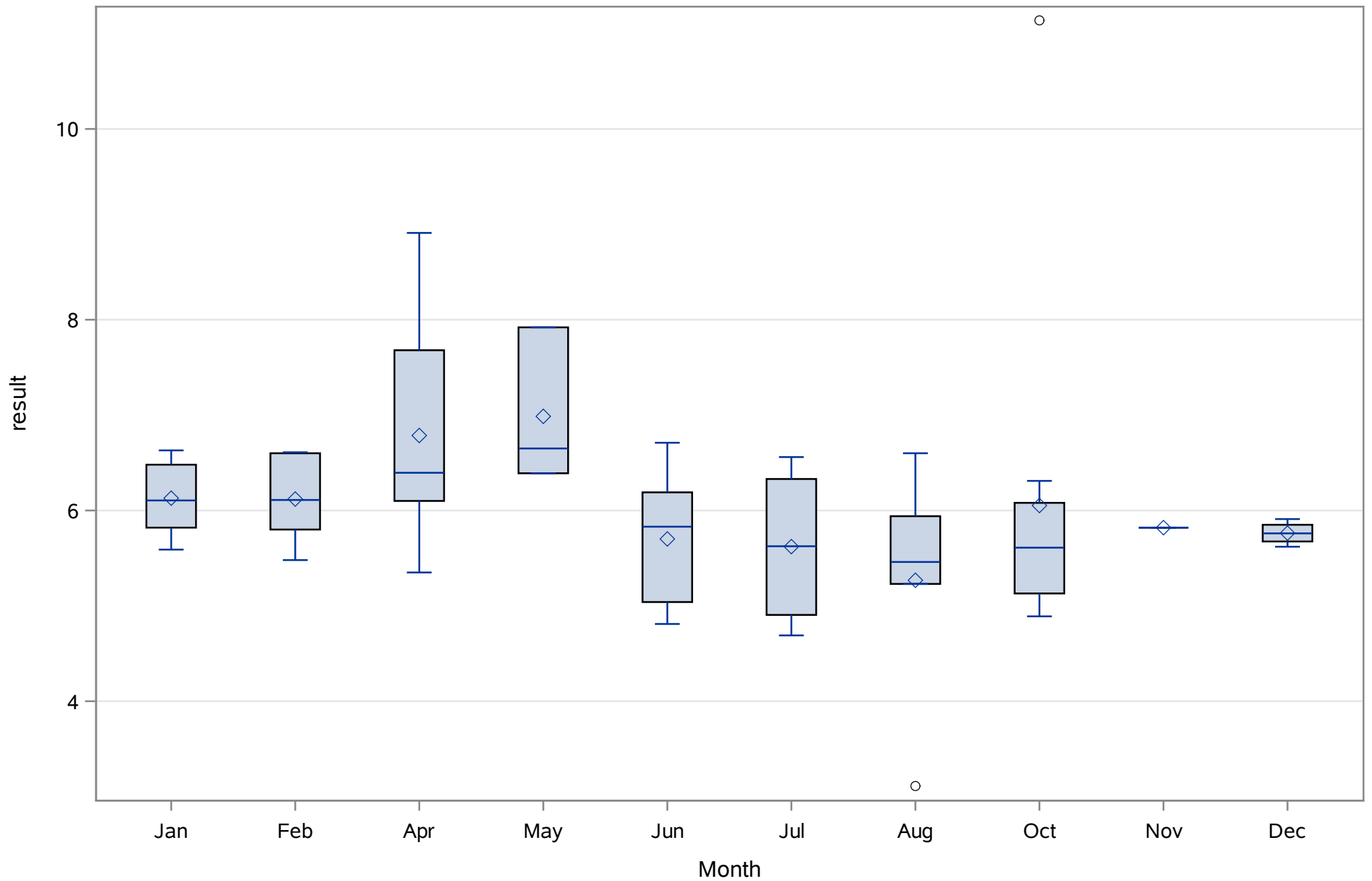
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth (Total) Meters



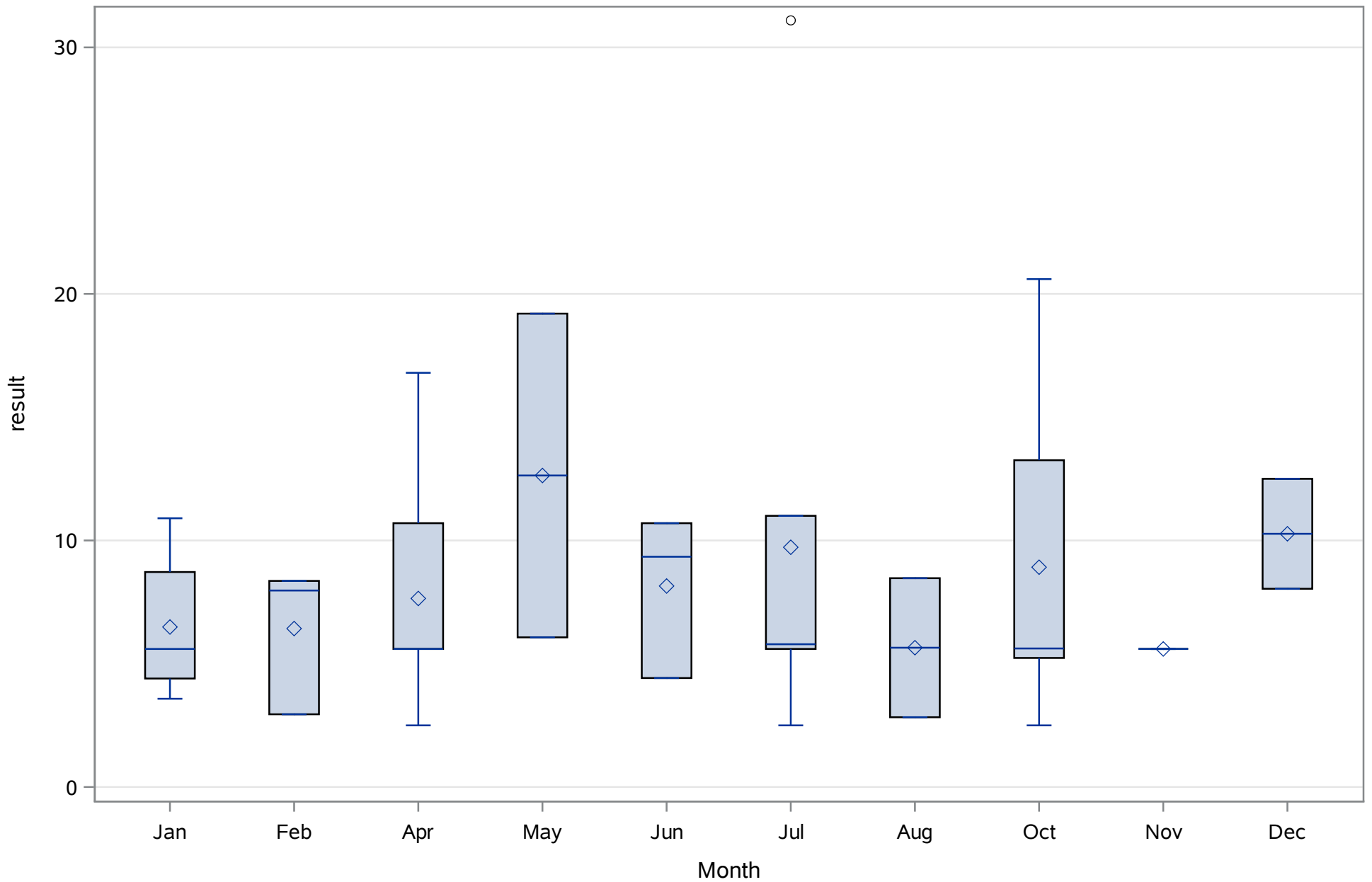
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Depth, bottom (Total) Meters



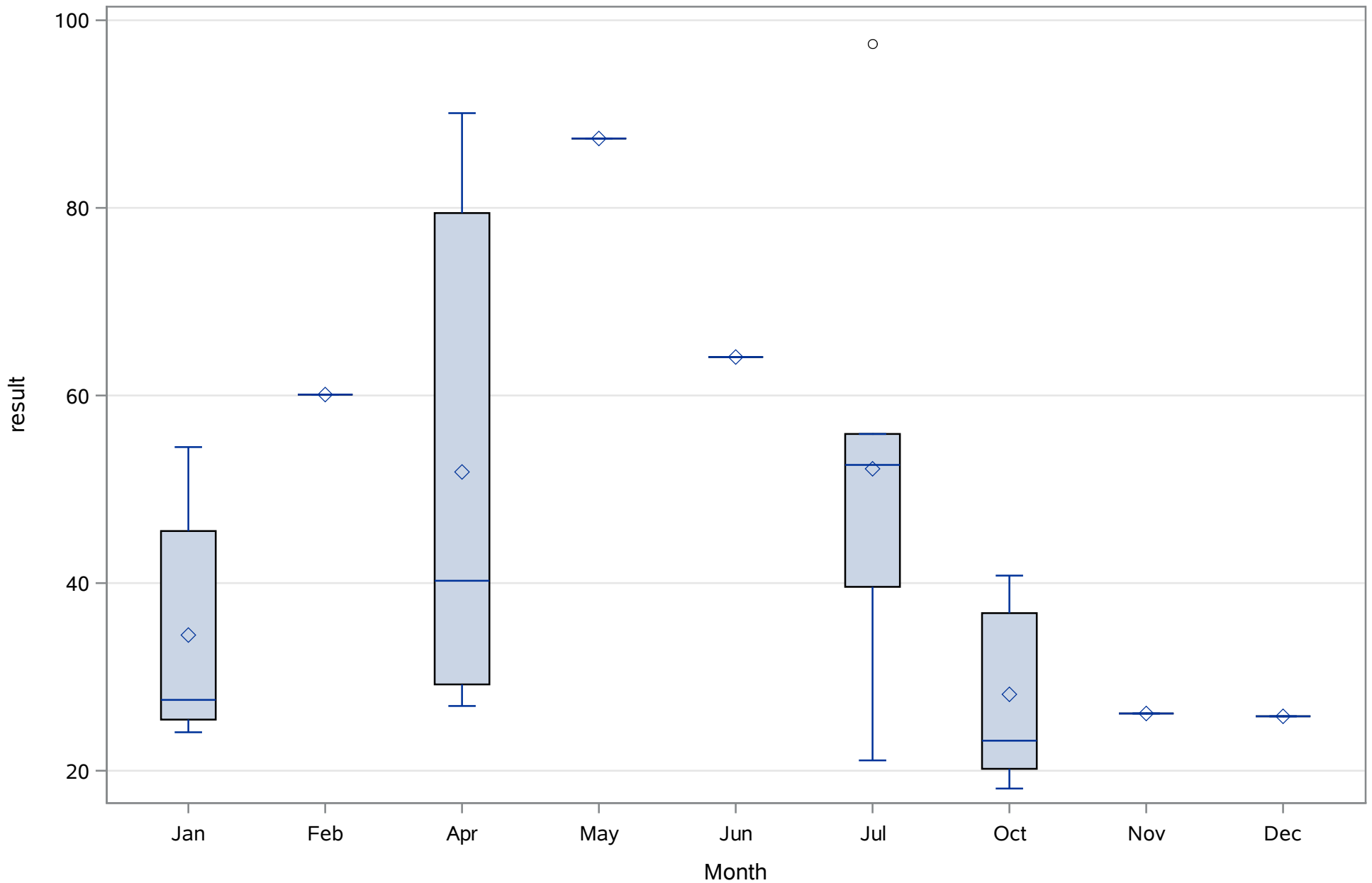
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Dissolved Oxygen (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Iron (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Magnesium (Dissolved) mg/L

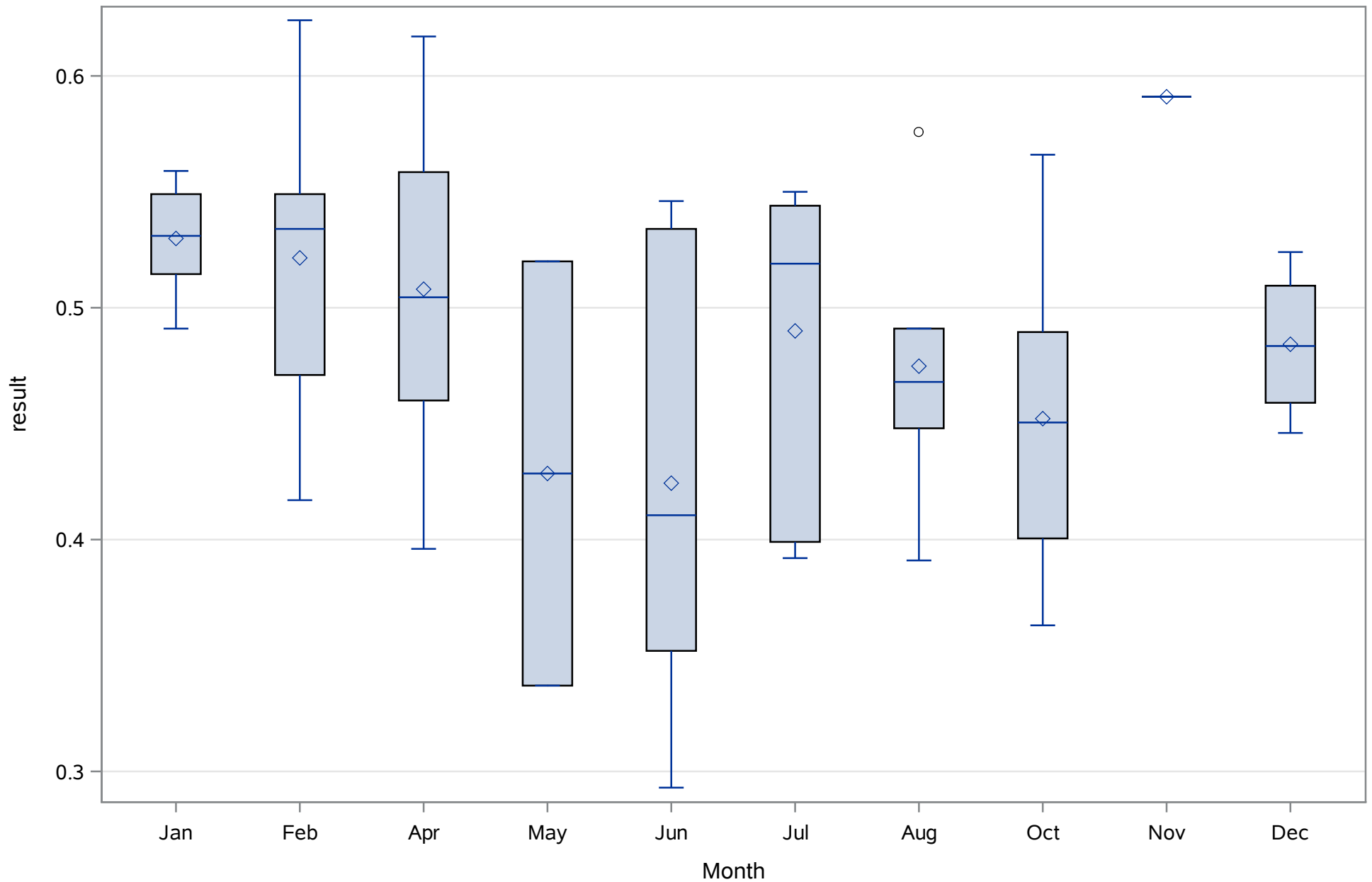


Chassahowitzka River - Fixed Station

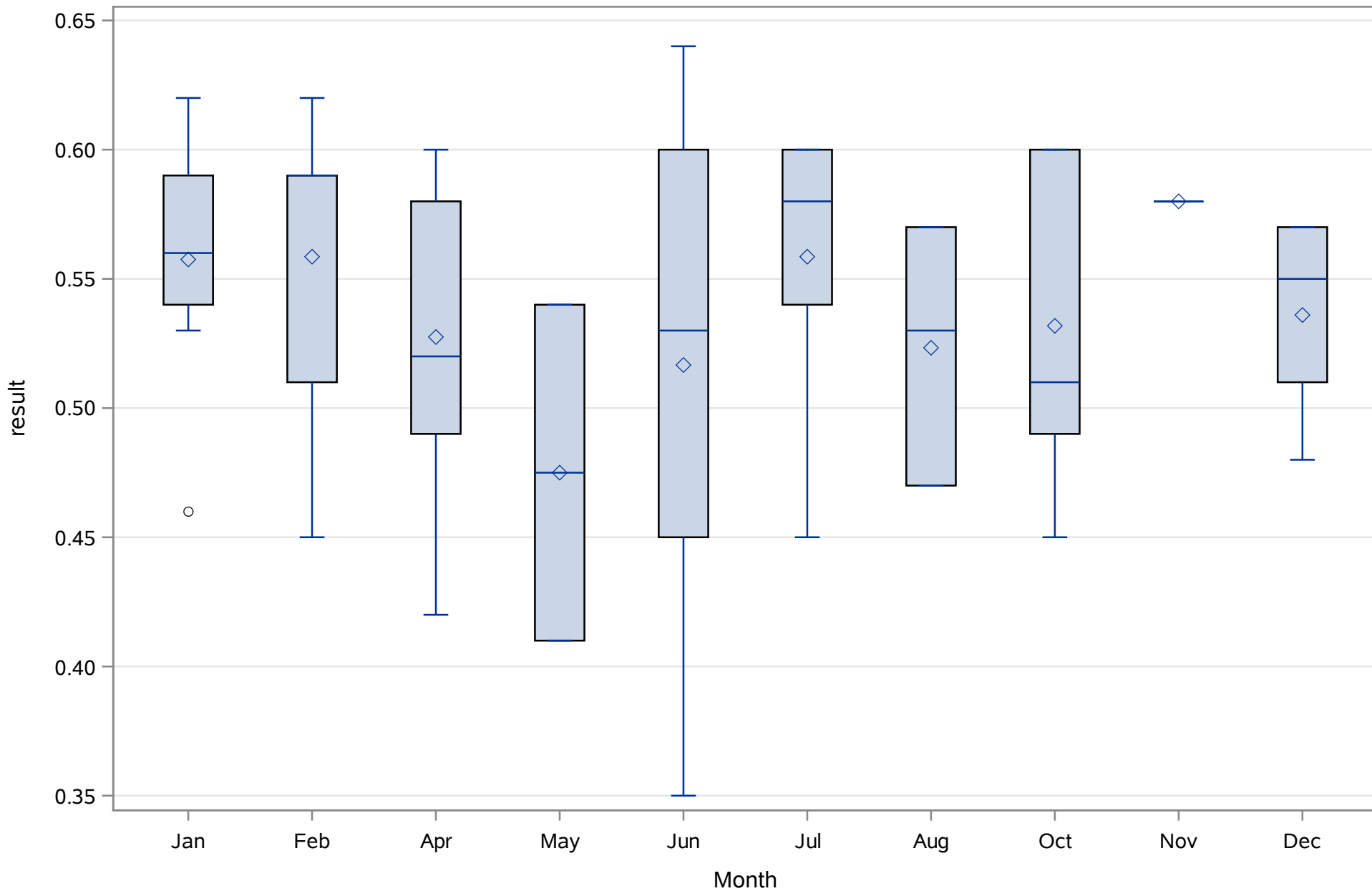
Source: Coastal Rivers

Chassahowitzka River CV 0

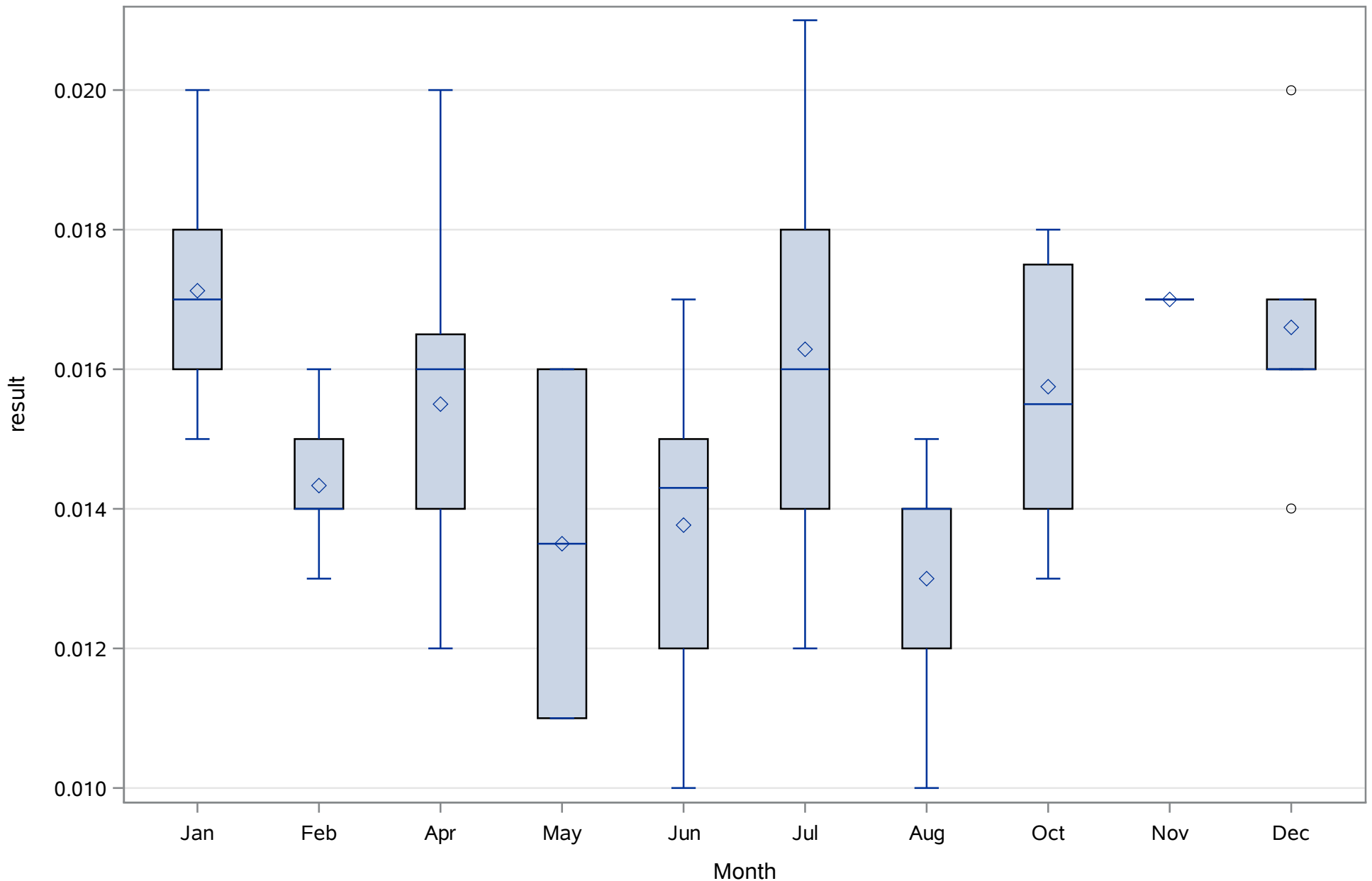
Nitrate-Nitrite (N) (Total) mg/L



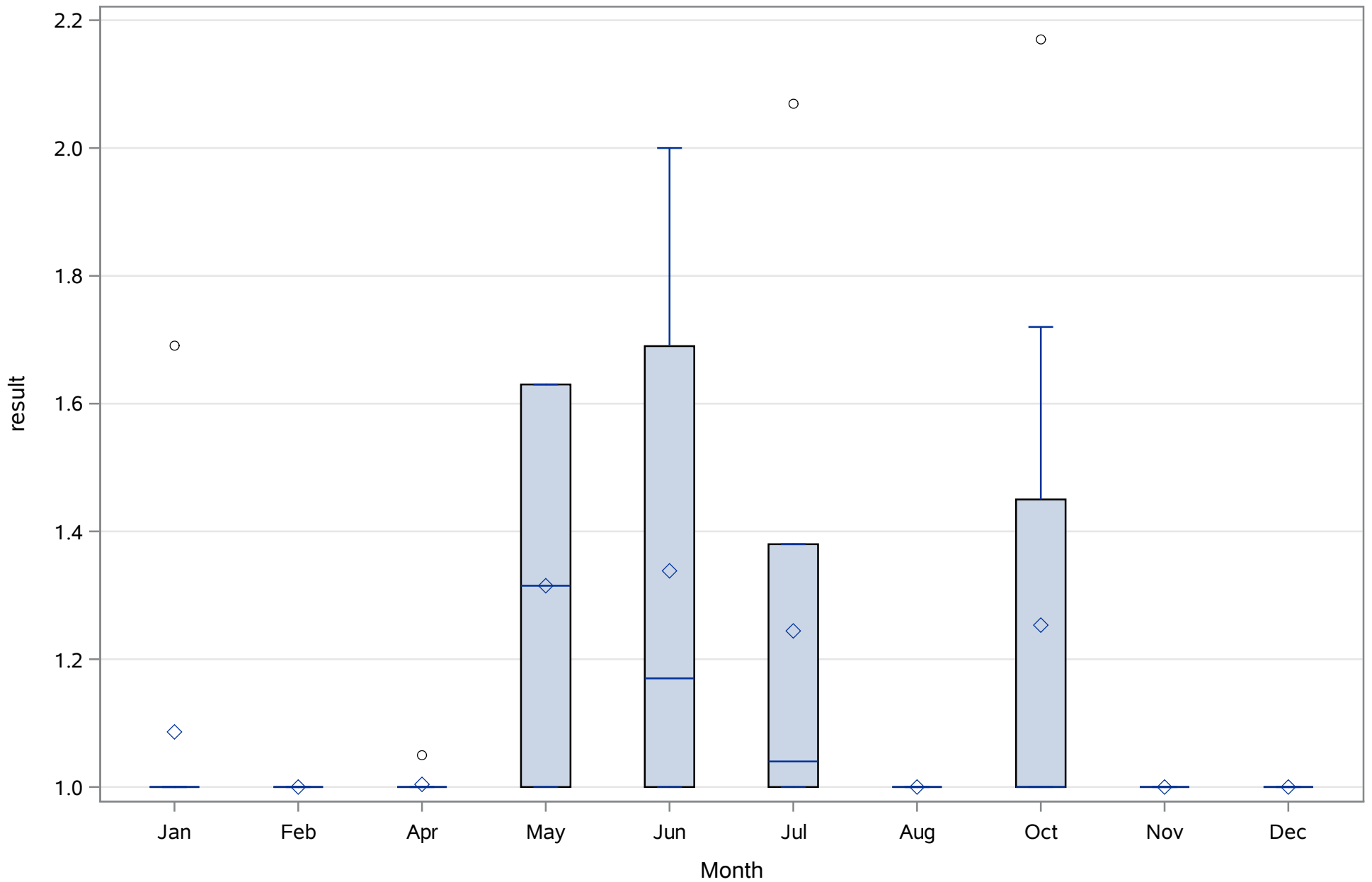
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Nitrogen- Total (Total) mg/L



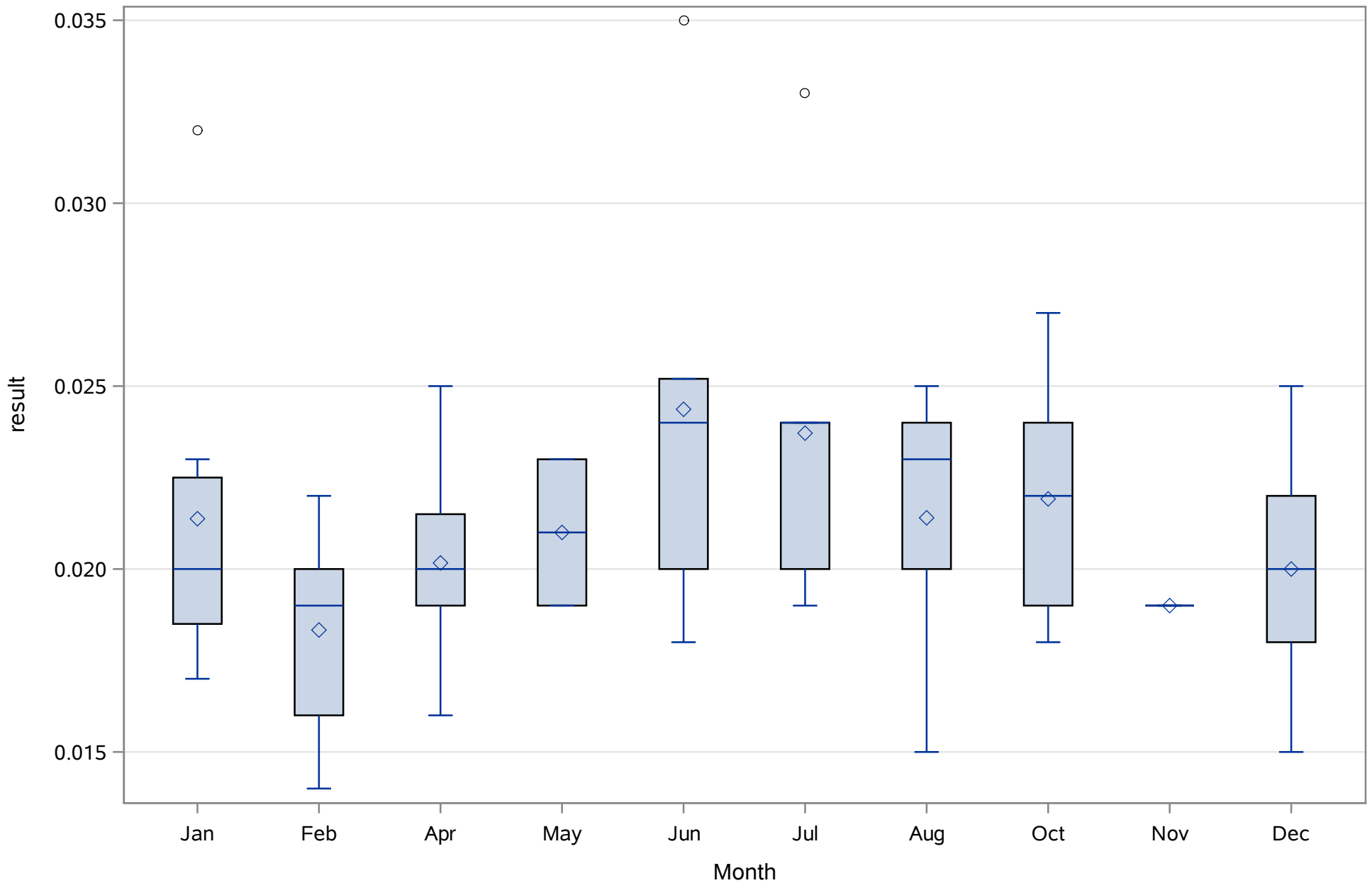
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Orthophosphate (P) (Dissolved) mg/L



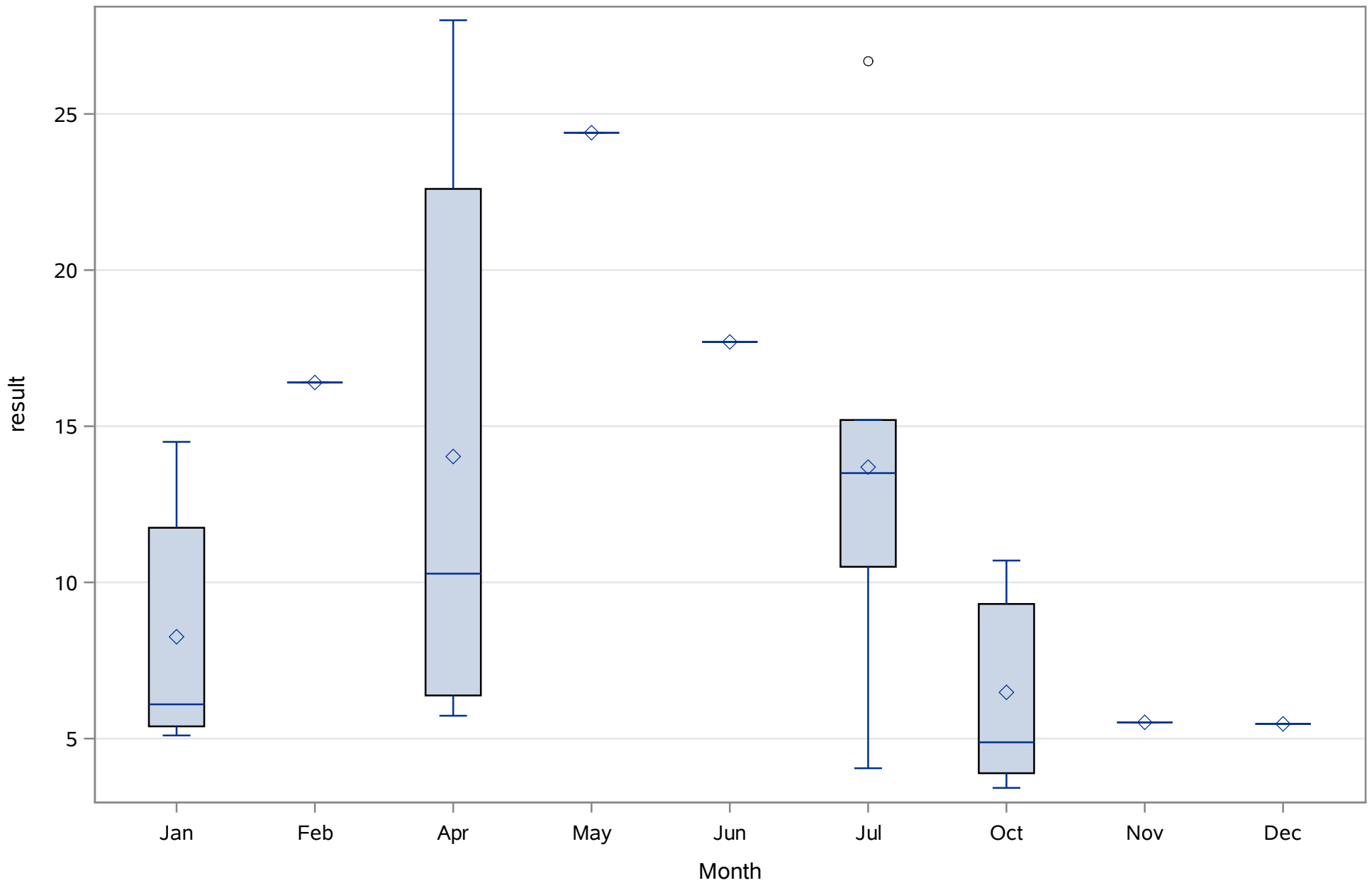
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phaeophytin (Total) ug/L



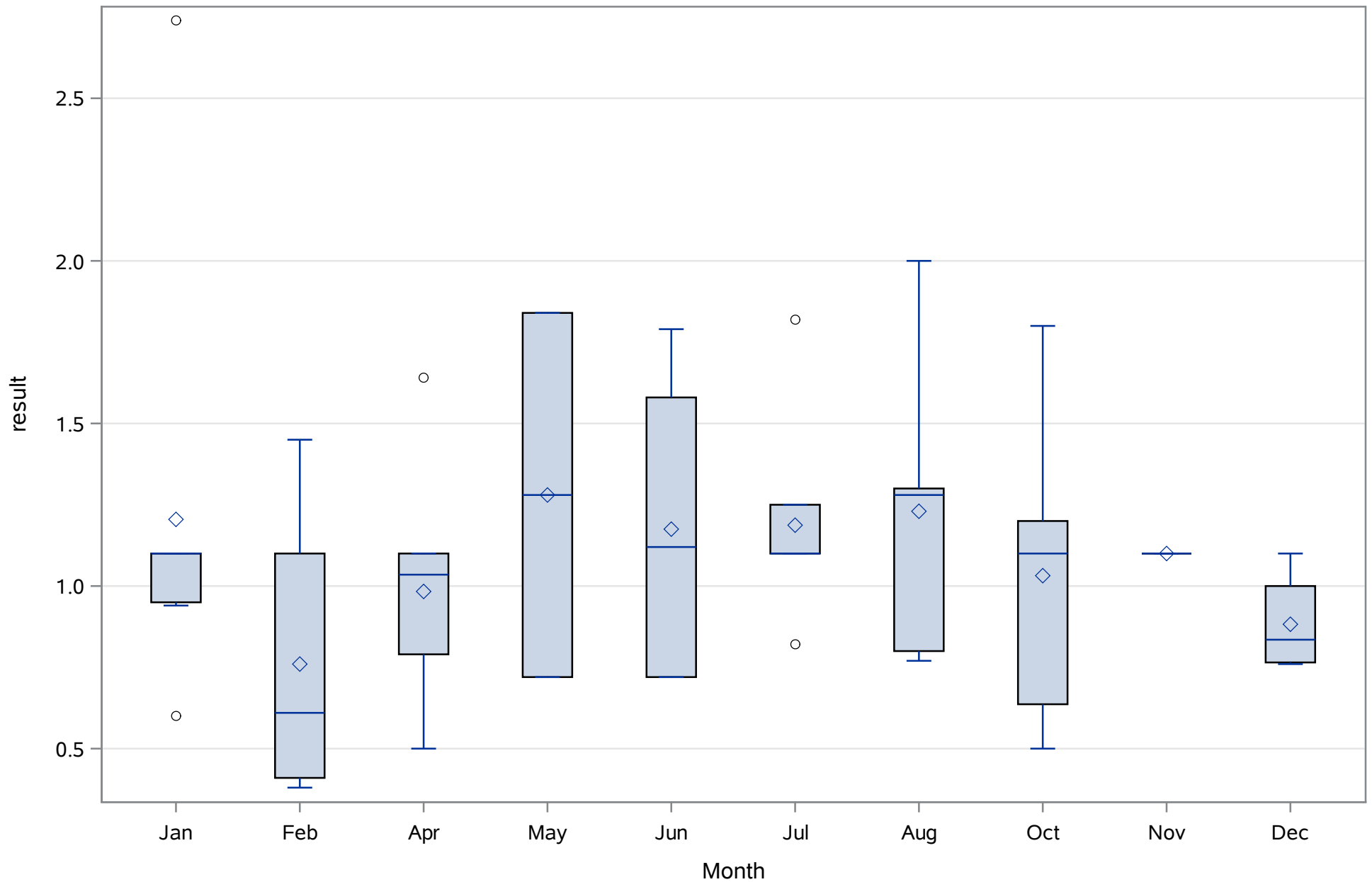
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Phosphorus- Total (Total) mg/L



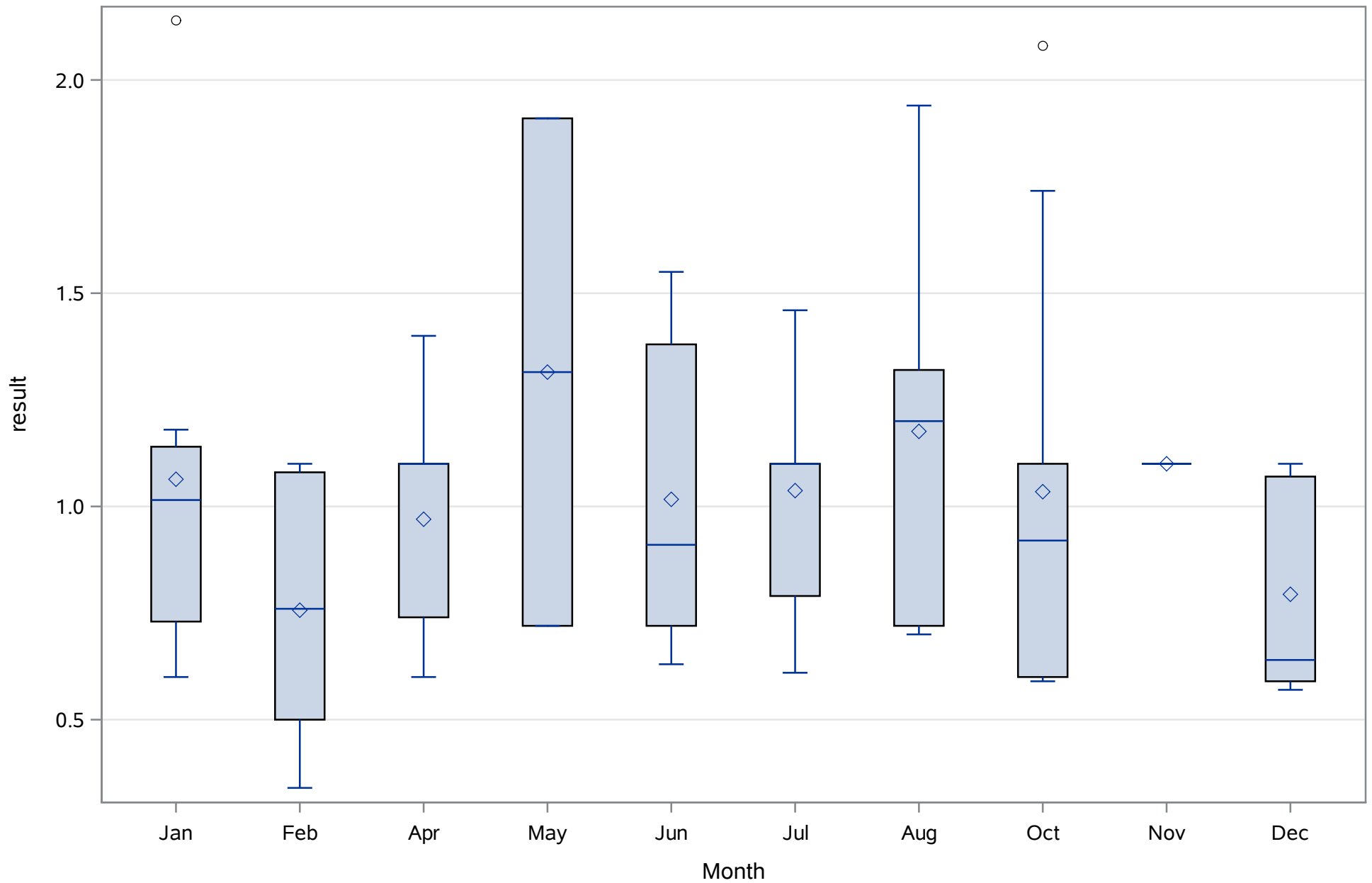
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Potassium (Dissolved) mg/L



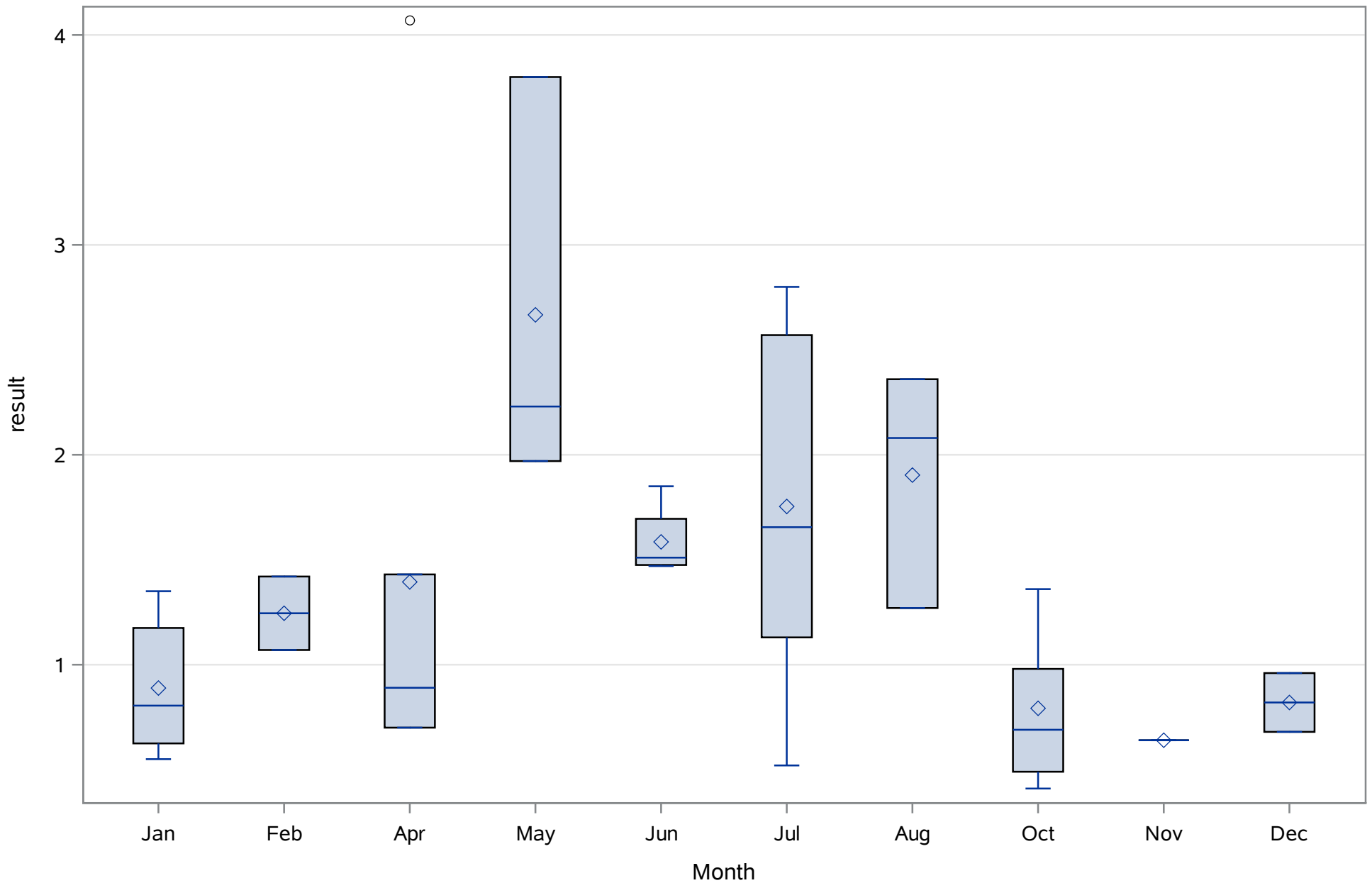
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Nonfilterable (TSS) (Total) mg/L



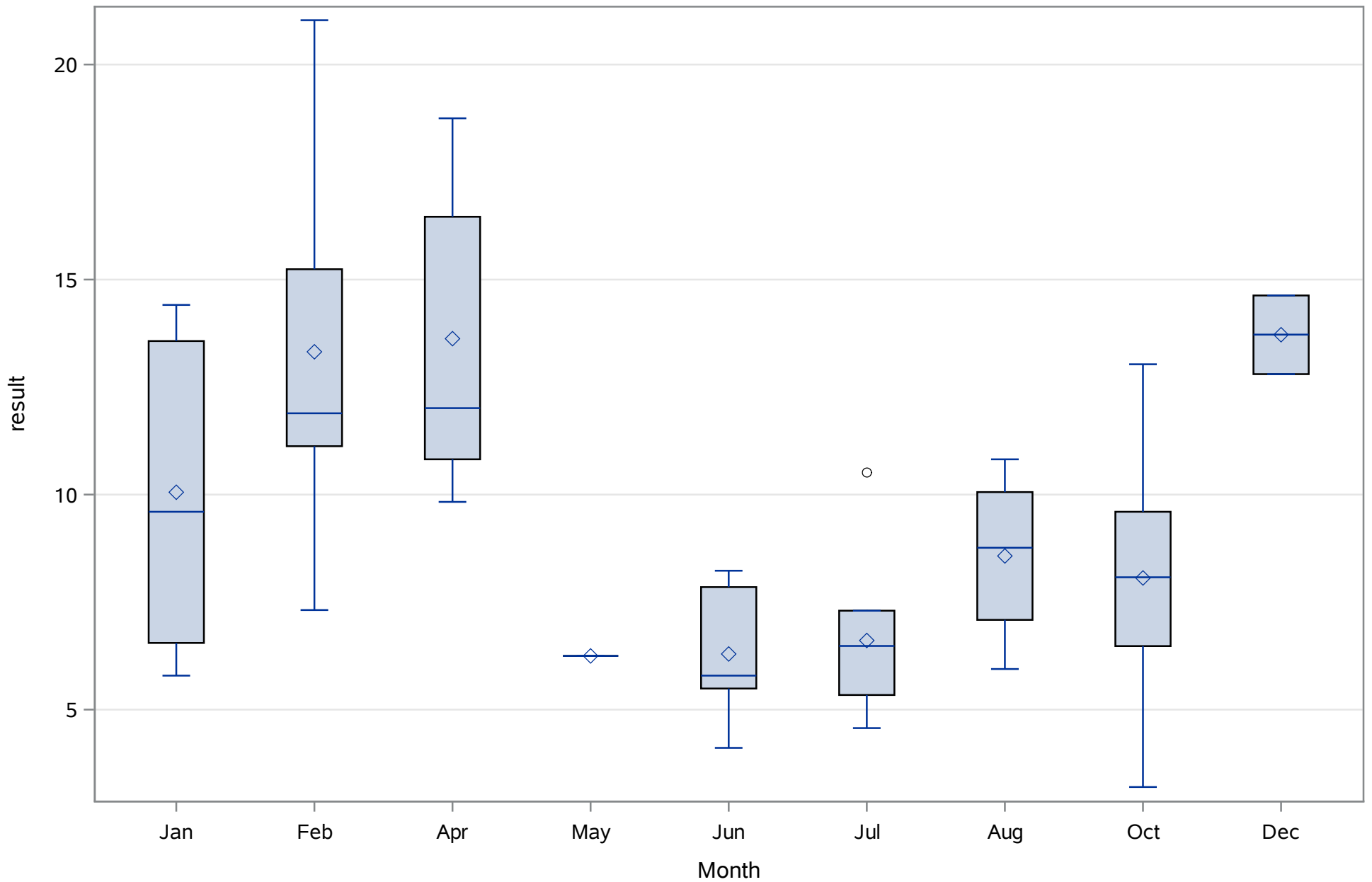
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Residues- Volatile (Total) mg/L



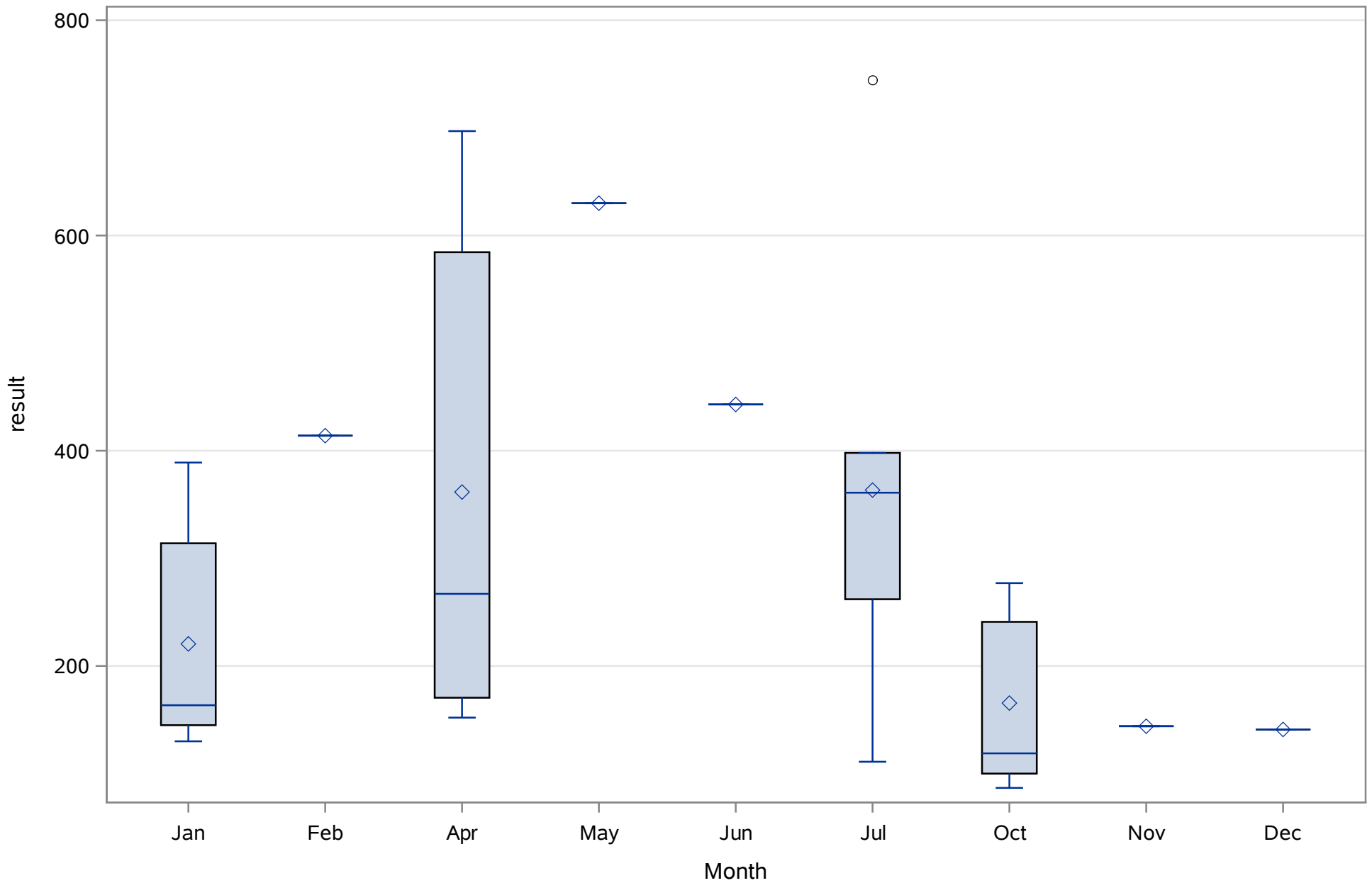
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Salinity (Total) ppt



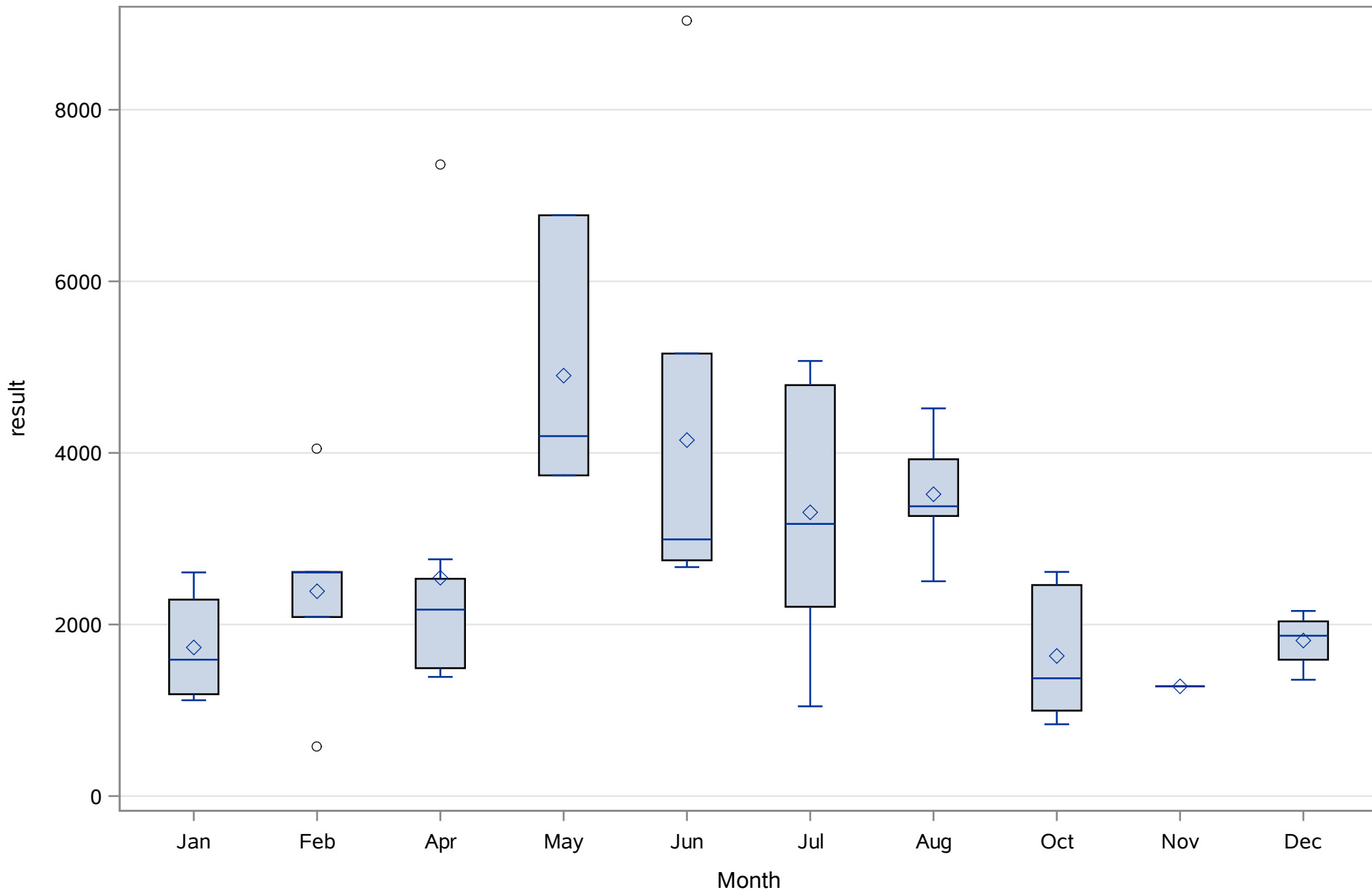
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Secchi-horizontal (Total) Meters



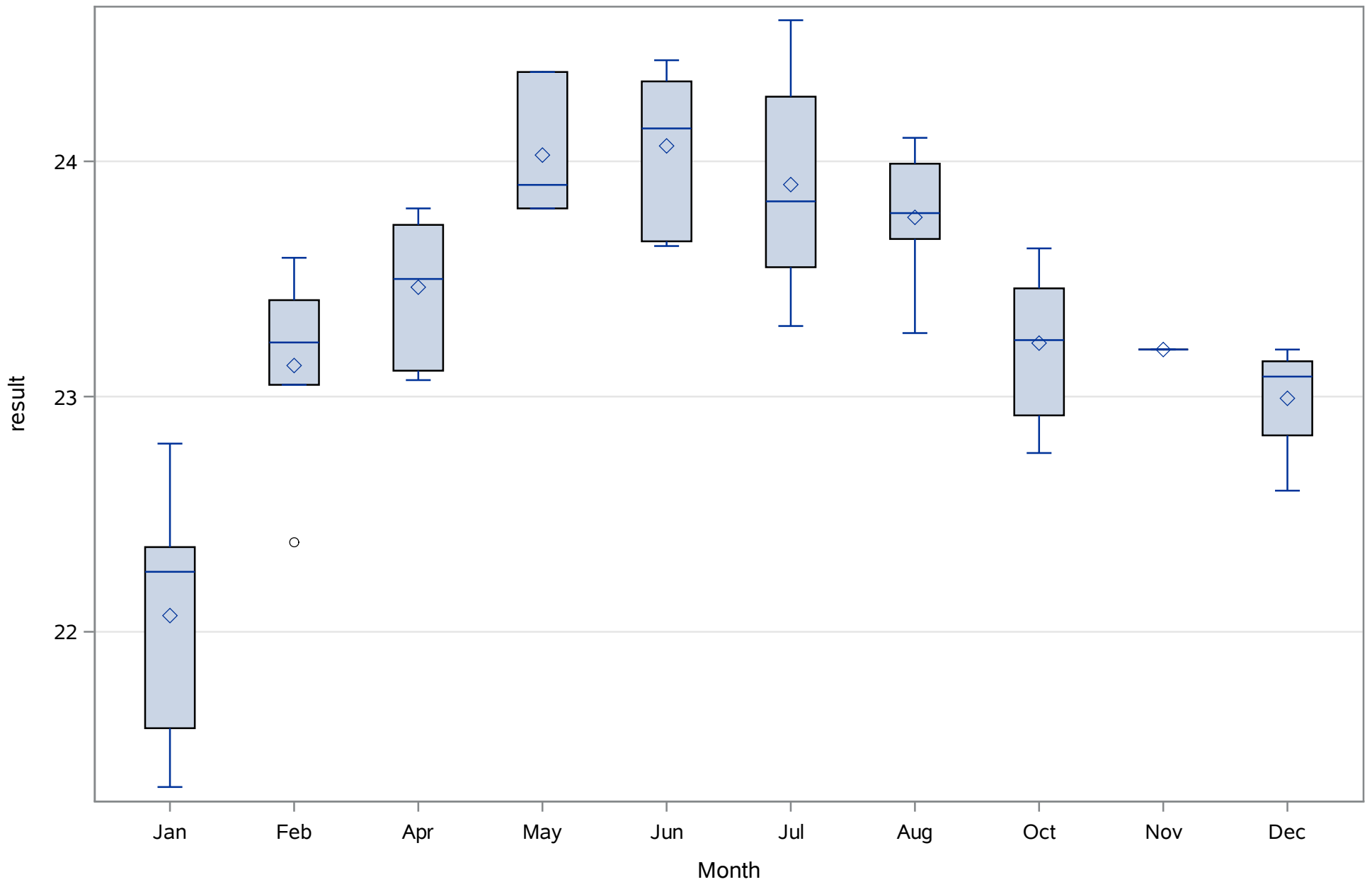
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Sodium (Dissolved) mg/L



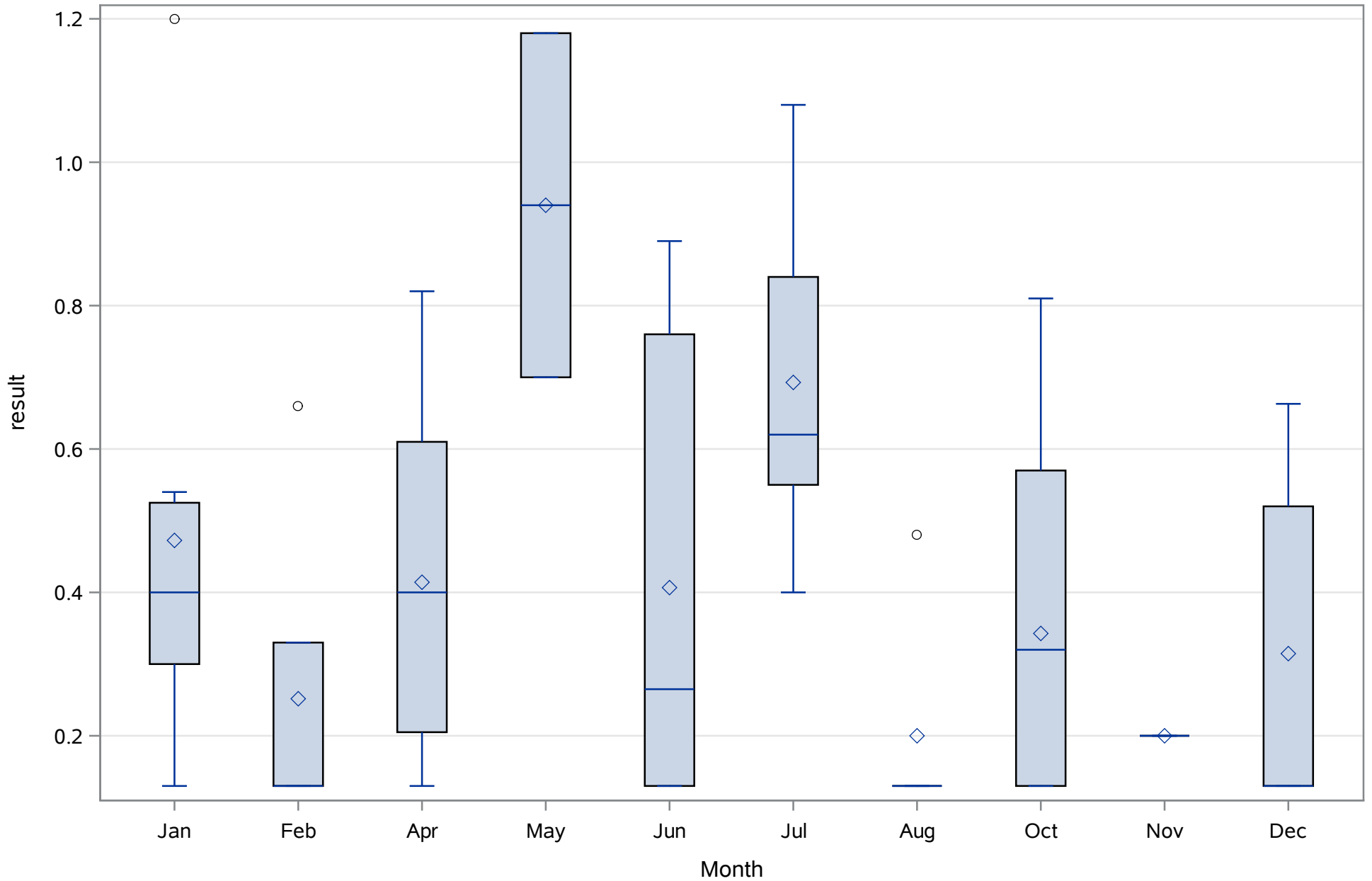
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Specific Conductance (Total) uS/cm



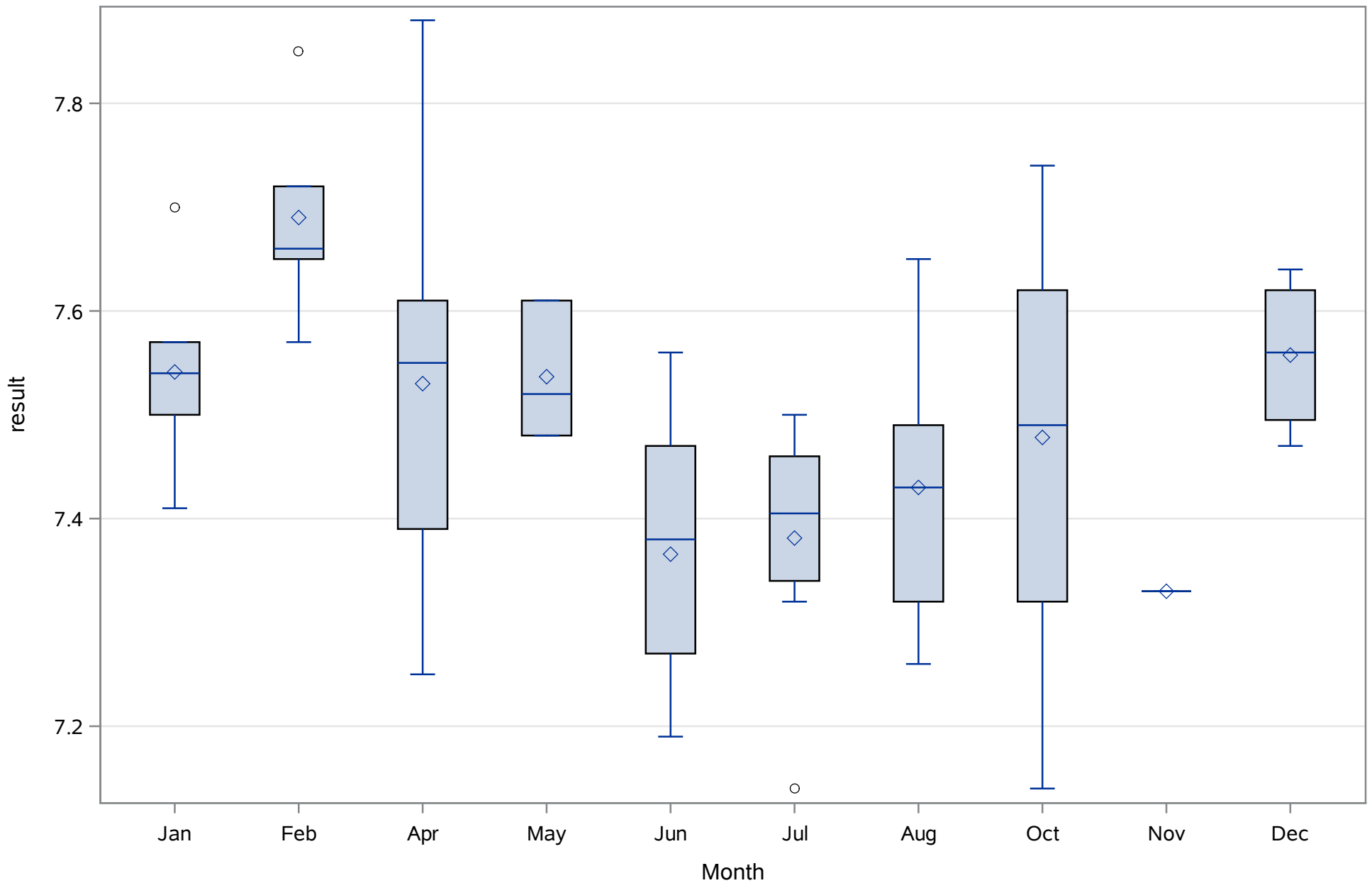
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	FEB2006	APR2017	55	7.3%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT2010	APR2017	27	14.8%	0.0%	3.7%
Chlorophyll a (Total)	ug/L	FEB2006	APR2017	55	14.5%	0.0%	1.8%
Chlorophyll b (Total)	ug/L	DEC2005	FEB2006	2	0.0%	0.0%	0.0%
Chlorophyll c (Total)	ug/L	FEB2006	FEB2006	1	0.0%	0.0%	100.0%
Cobalt (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	OCT2006	JUN2009	17	0.0%	0.0%	5.9%
Color (Dissolved)	PCU	FEB2006	APR2017	54	9.3%	0.0%	1.9%
Copper (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Depth (Total)	Meters	AUG2008	APR2017	39	0.0%	0.0%	2.6%
Depth, bottom (Total)	Meters	AUG2007	APR2017	45	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	DEC2008	APR2017	37	10.8%	0.0%	2.7%
Magnesium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Molybdenum (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	OCT2005	APR2017	58	1.7%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	OCT2005	APR2017	58	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	DEC2005	APR2017	55	1.8%	0.0%	1.8%
Phaeophytin (Total)	ug/L	OCT2005	APR2017	56	1.8%	0.0%	1.8%
Phosphorus- Total (Total)	mg/L	OCT2005	APR2017	55	1.8%	0.0%	1.8%
Potassium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	DEC2005	APR2017	54	5.6%	0.0%	1.9%
Residues- Volatile (Total)	mg/L	FEB2006	APR2017	54	5.6%	0.0%	1.9%
Salinity (Total)	ppth	AUG2008	APR2017	39	0.0%	0.0%	0.0%
Secchi-horizontal (Total)	Meters	FEB2006	APR2017	52	0.0%	0.0%	0.0%
Secchi-vertical (Total)	Meters	APR2010	APR2010	1	0.0%	0.0%	100.0%
Sodium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	FEB2006	APR2017	54	1.9%	0.0%	0.0%
Total depth at monitored location	Meters	FEB2006	JUN2007	9	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Turbidity (Total)	NTU	OCT2005	APR2017	55	9.1%	0.0%	1.8%
Zinc (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
pH (Total)	SU	FEB2006	APR2017	54	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	0.01185455	Sum Observations	0.652
Std Deviation	0.00622842	Variance	0.00003879
Skewness	1.28992164	Kurtosis	0.85057184
Uncorrected SS	0.009824	Corrected SS	0.00209484
Coeff Variation	52.5403868	Std Error Mean	0.00083984

Basic Statistical Measures			
Location		Variability	
Mean	0.011855	Std Deviation	0.00623
Median	0.010000	Variance	0.0000388
Mode	0.010000	Range	0.02300
		Interquartile Range	0.00700

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.11523	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.028
99%	0.028
95%	0.027
90%	0.022
75% Q3	0.015
50% Median	0.010
25% Q1	0.008
10%	0.005
5%	0.005
1%	0.005
0% Min	0.005

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

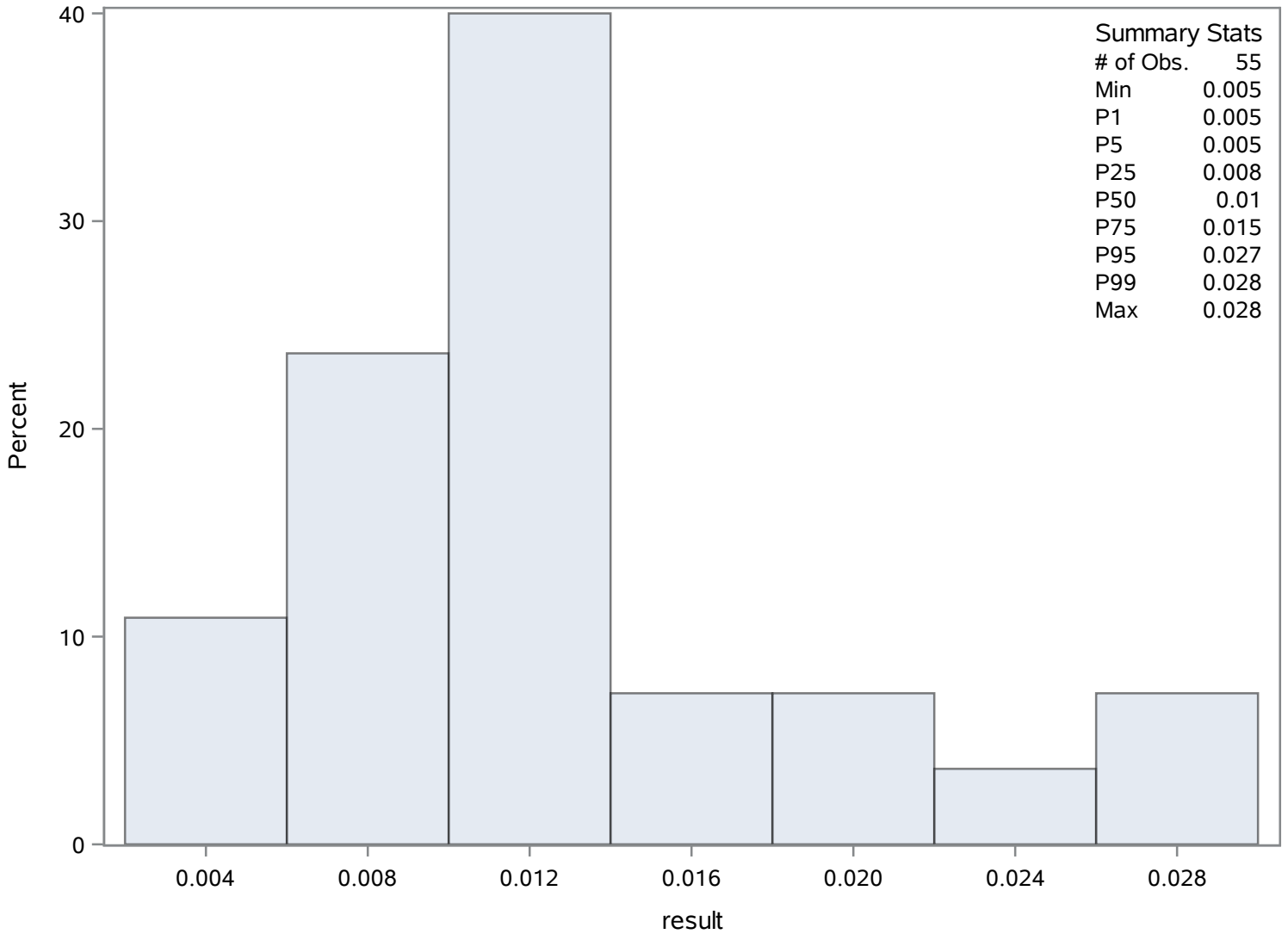
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	20	0.023	18
0.005	14	0.026	17
0.005	13	0.027	4
0.005	9	0.028	16
0.005	8	0.028	35

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	76.9814815	Sum Observations	2078.5
Std Deviation	8.81842638	Variance	77.7646439
Skewness	0.3515601	Kurtosis	0.54436865
Uncorrected SS	162027.89	Corrected SS	2021.88074
Coeff Variation	11.4552568	Std Error Mean	1.69710695

Basic Statistical Measures			
Location		Variability	
Mean	76.98148	Std Deviation	8.81843
Median	76.10000	Variance	77.76464
Mode	82.50000	Range	39.50000
		Interquartile Range	11.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	45.36042	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	98.2
99%	98.2
95%	94.1
90%	87.8
75% Q3	82.5
50% Median	76.1
25% Q1	71.0
10%	65.8
5%	63.6
1%	58.7
0% Min	58.7

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

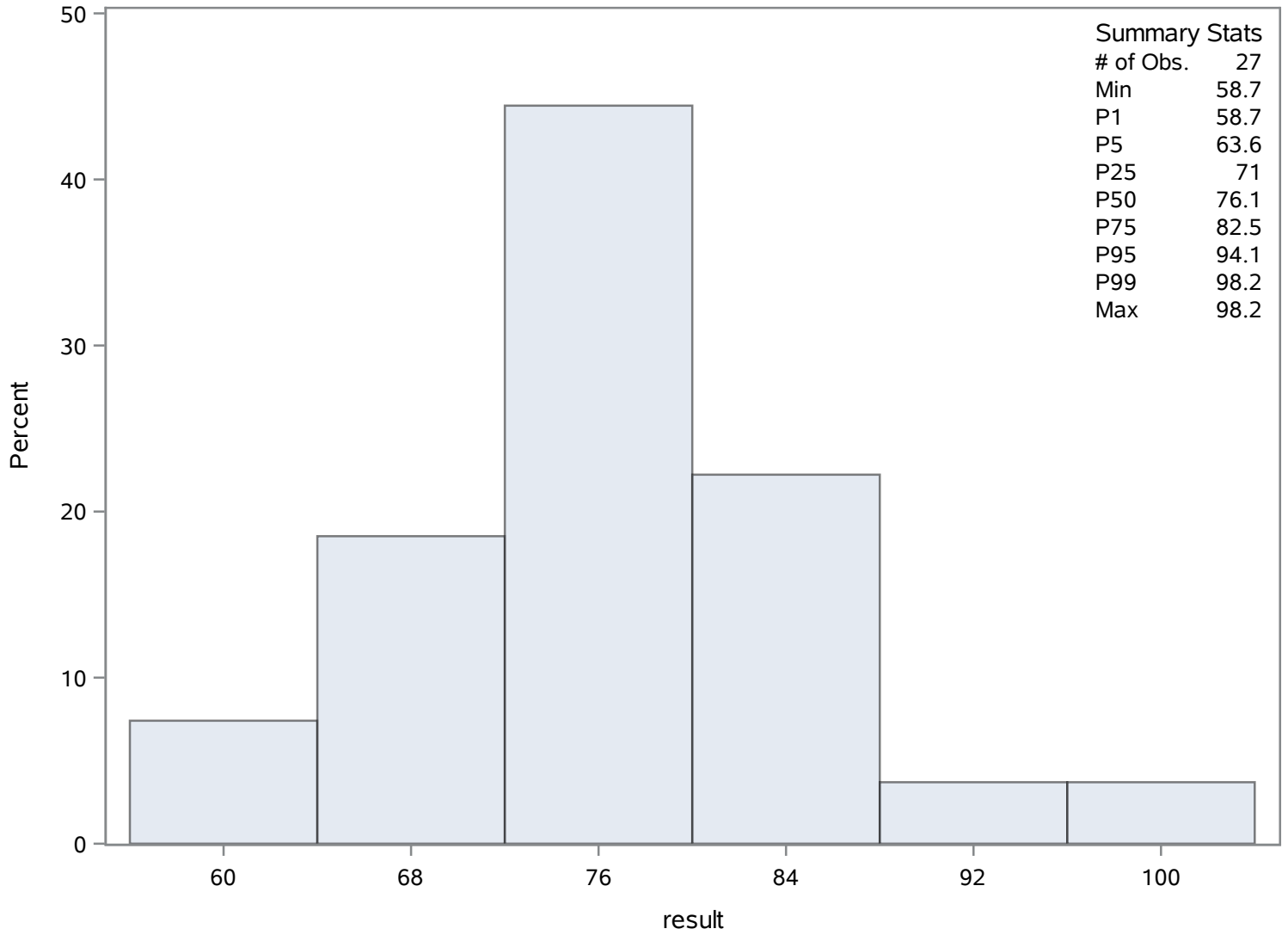
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
58.7	77	83.9	79
63.6	72	86.2	57
65.8	76	87.8	82
67.4	64	94.1	62
70.1	69	98.2	59

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	1.37259259	Sum Observations	37.06
Std Deviation	1.52821563	Variance	2.33544302
Skewness	2.45315159	Kurtosis	5.87168679
Uncorrected SS	111.5898	Corrected SS	60.7215185
Coeff Variation	111.33789	Std Error Mean	0.29410524

Basic Statistical Measures			
Location		Variability	
Mean	1.372593	Std Deviation	1.52822
Median	0.730000	Variance	2.33544
Mode	0.480000	Range	6.36000
		Interquartile Range	0.73000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.667012	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.83
99%	6.83
95%	4.17
90%	4.04
75% Q3	1.30
50% Median	0.73
25% Q1	0.57
10%	0.48
5%	0.48

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

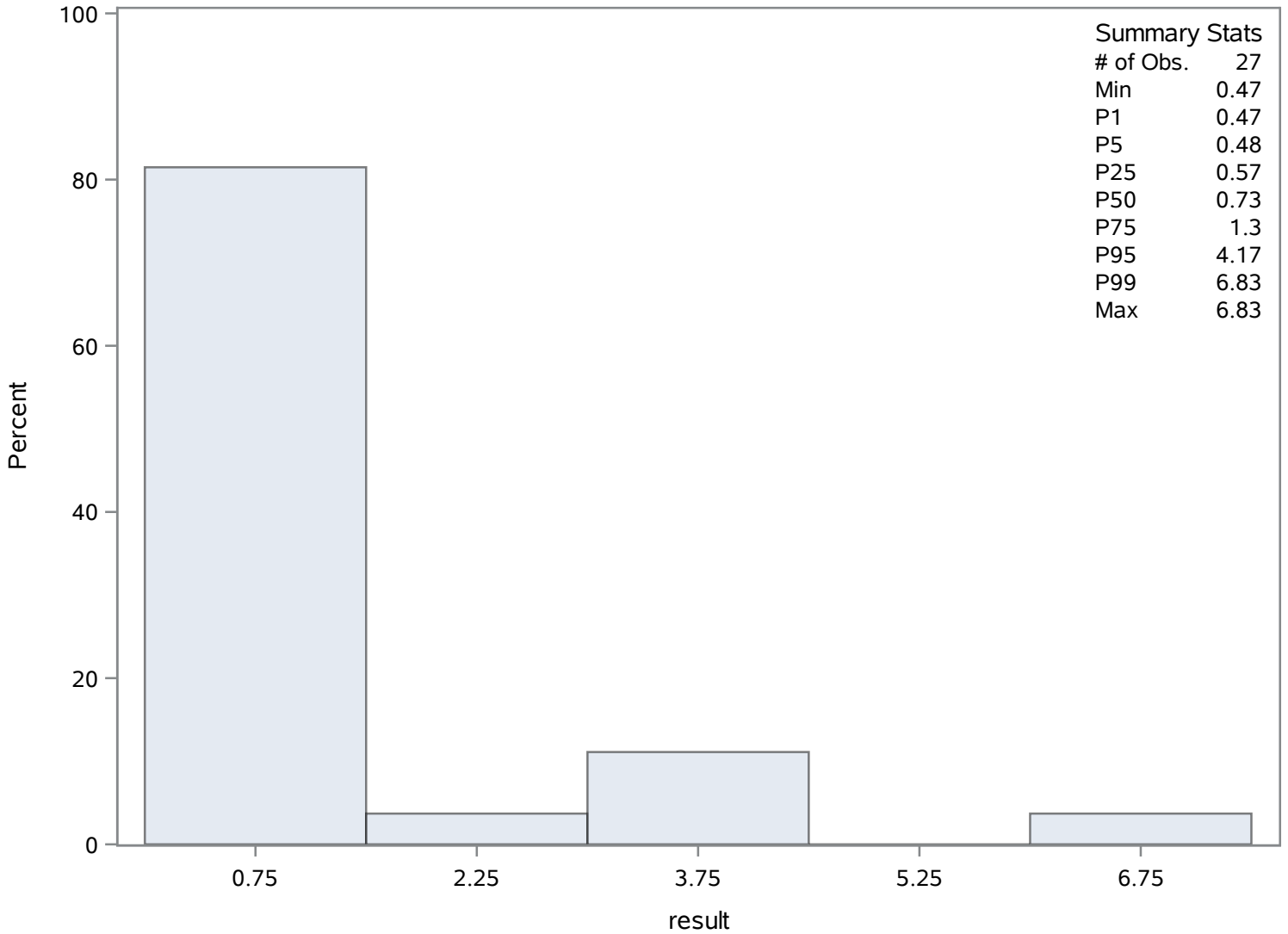
Quantiles (Definition 5)	
Level	Quantile
1%	0.47
0% Min	0.47

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.47	83	1.68	107
0.48	92	3.83	103
0.48	84	4.04	100
0.52	105	4.17	90
0.52	86	6.83	99

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	2.19927273	Sum Observations	120.96
Std Deviation	3.36640365	Variance	11.3326735
Skewness	4.7552812	Kurtosis	25.429235
Uncorrected SS	877.9884	Corrected SS	611.964371
Coeff Variation	153.068949	Std Error Mean	0.45392578

Basic Statistical Measures			
Location		Variability	
Mean	2.199273	Std Deviation	3.36640
Median	1.050000	Variance	11.33267
Mode	1.000000	Range	21.38000
		Interquartile Range	0.85000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.845005	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	22.38
99%	22.38
95%	8.76
90%	3.60
75% Q3	1.85
50% Median	1.05
25% Q1	1.00
10%	1.00
5%	1.00
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

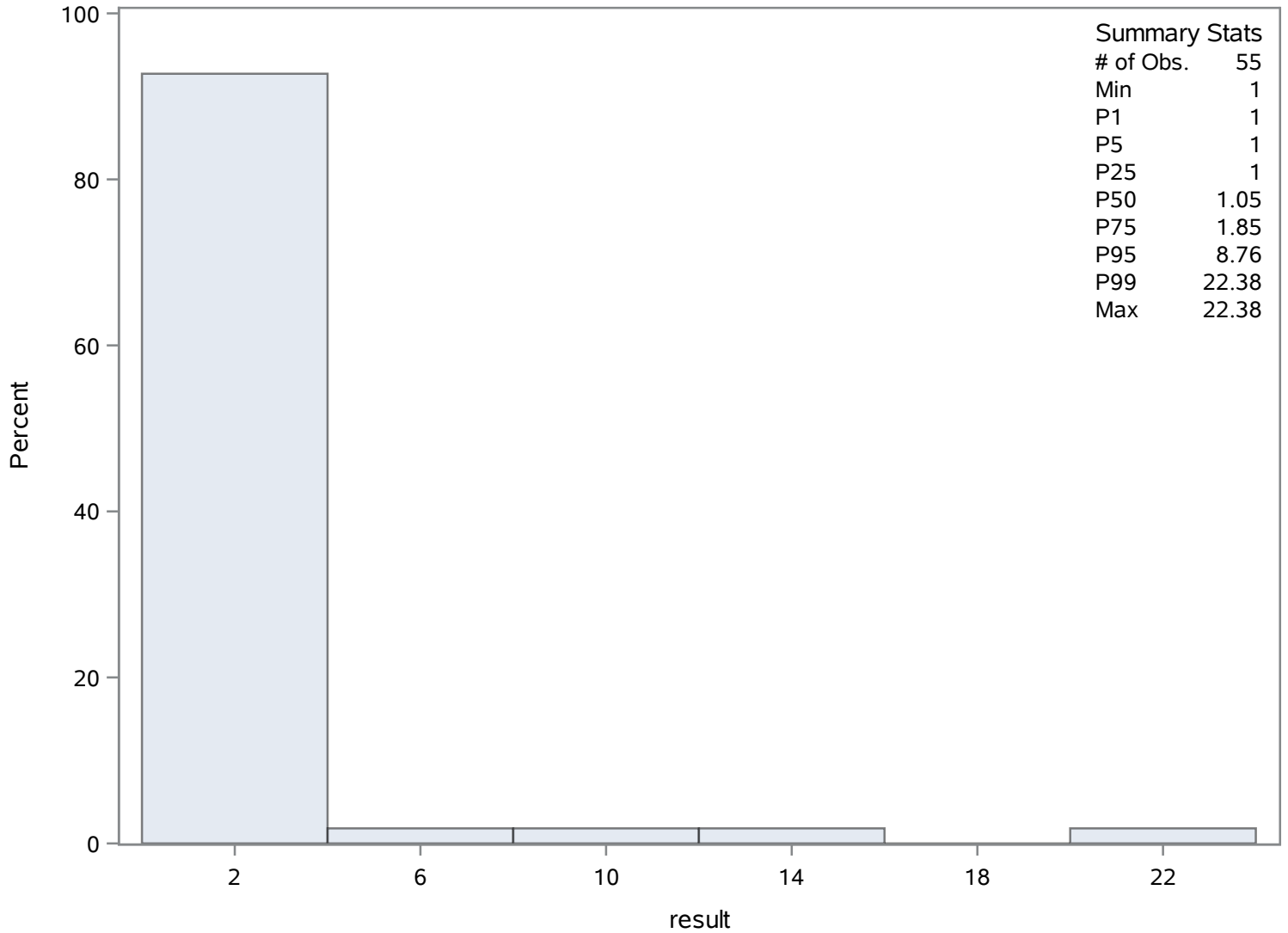
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	163	3.74	119
1	156	4.33	157
1	155	8.76	143
1	152	12.12	114
1	151	22.38	161

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	8.43481481	Sum Observations	455.48
Std Deviation	9.43474205	Variance	89.0143575
Skewness	3.24611009	Kurtosis	12.1104421
Uncorrected SS	8559.6504	Corrected SS	4717.76095
Coeff Variation	111.854762	Std Error Mean	1.28390577

Basic Statistical Measures			
Location		Variability	
Mean	8.434815	Std Deviation	9.43474
Median	5.000000	Variance	89.01436
Mode	5.000000	Range	52.80000
		Interquartile Range	6.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.569653	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	55.20
99%	55.20
95%	33.10
90%	13.48
75% Q3	10.00
50% Median	5.00
25% Q1	3.70
10%	3.00
5%	2.60
1%	2.40
0% Min	2.40

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

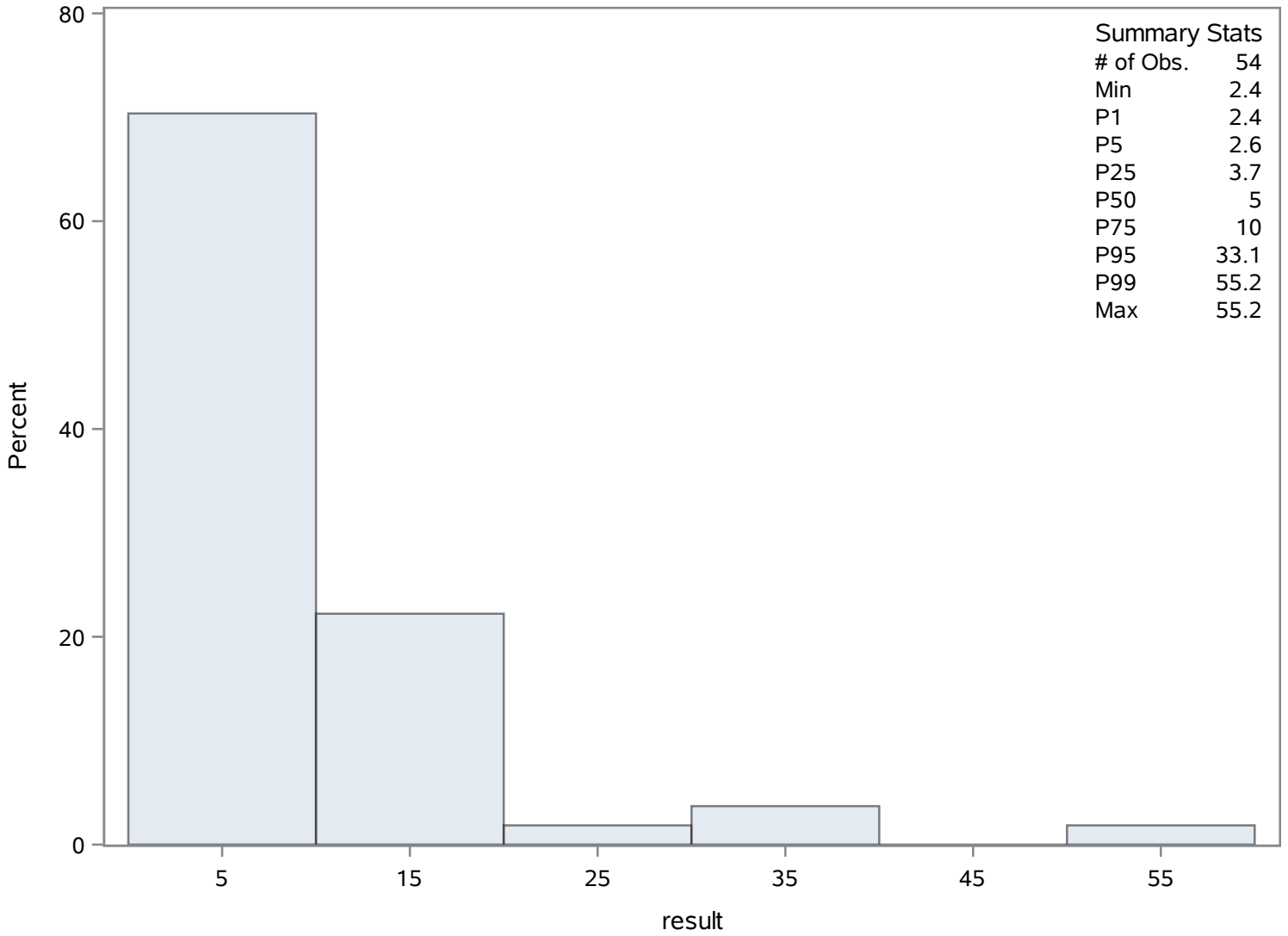
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.4	201	18.2	215
2.5	197	29.1	212
2.6	195	33.1	199
2.6	193	33.1	209
2.6	192	55.2	208

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	0.44410256	Sum Observations	17.32
Std Deviation	0.08038453	Variance	0.00646167
Skewness	-1.4698921	Kurtosis	1.69153248
Uncorrected SS	7.9374	Corrected SS	0.24554359
Coeff Variation	18.1004437	Std Error Mean	0.01287183

Basic Statistical Measures			
Location		Variability	
Mean	0.444103	Std Deviation	0.08038
Median	0.500000	Variance	0.00646
Mode	0.500000	Range	0.32000
		Interquartile Range	0.10000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	34.50191	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.50
99%	0.50
95%	0.50
90%	0.50
75% Q3	0.50
50% Median	0.50
25% Q1	0.40
10%	0.32
5%	0.30
1%	0.18
0% Min	0.18

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

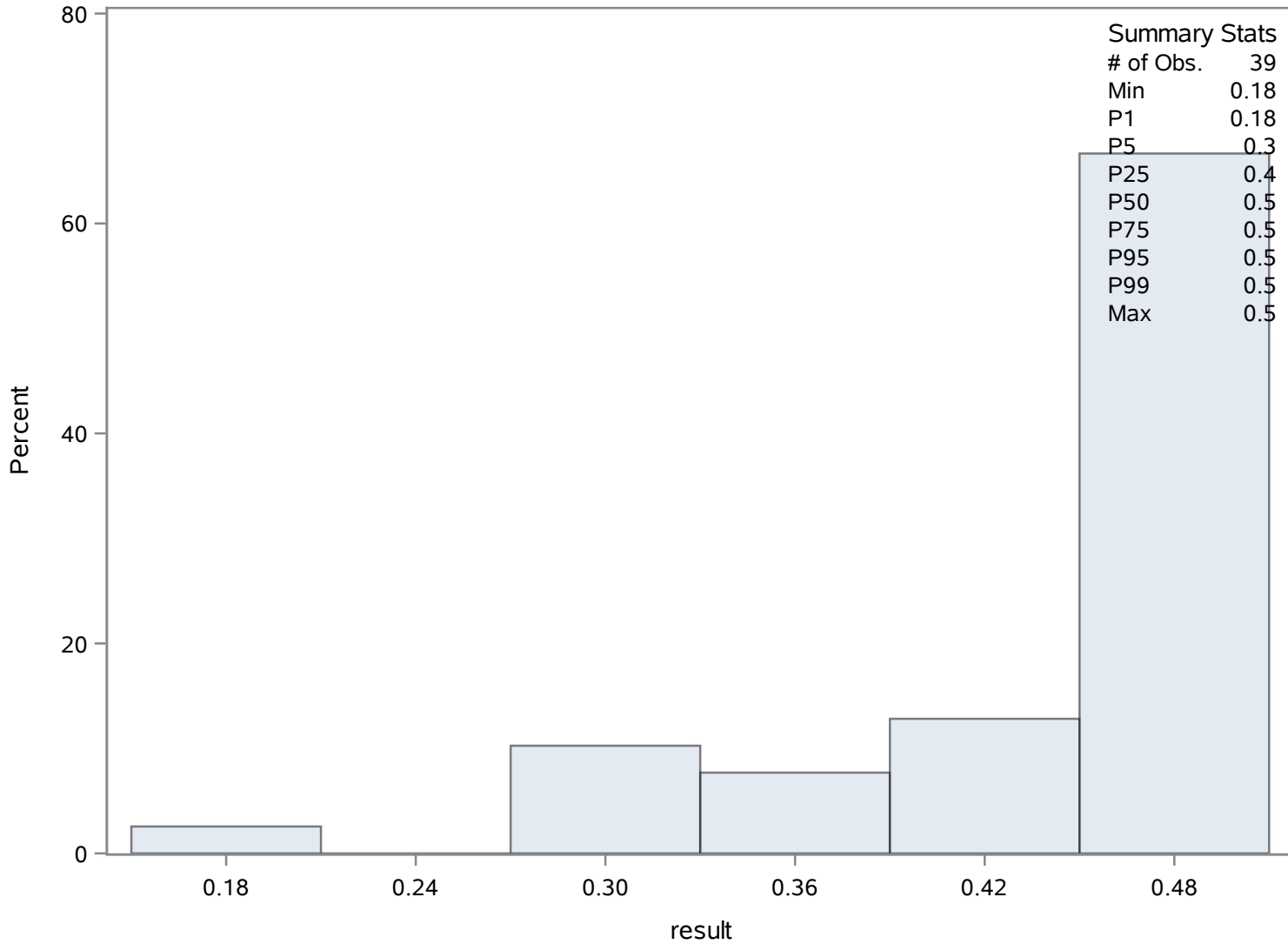
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.18	256	0.5	246
0.30	248	0.5	247
0.30	222	0.5	249
0.32	255	0.5	251
0.32	228	0.5	253

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	0.8476	Sum Observations	38.142
Std Deviation	0.18179751	Variance	0.03305034
Skewness	-0.2357356	Kurtosis	-0.1826145
Uncorrected SS	33.783374	Corrected SS	1.4542148
Coeff Variation	21.4485034	Std Error Mean	0.02710077

Basic Statistical Measures			
Location		Variability	
Mean	0.847600	Std Deviation	0.18180
Median	0.840000	Variance	0.03305
Mode	0.800000	Range	0.81000
		Interquartile Range	0.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	31.27586	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.17
99%	1.17
95%	1.12
90%	1.10
75% Q3	1.00
50% Median	0.84
25% Q1	0.70
10%	0.64
5%	0.60
1%	0.36
0% Min	0.36

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

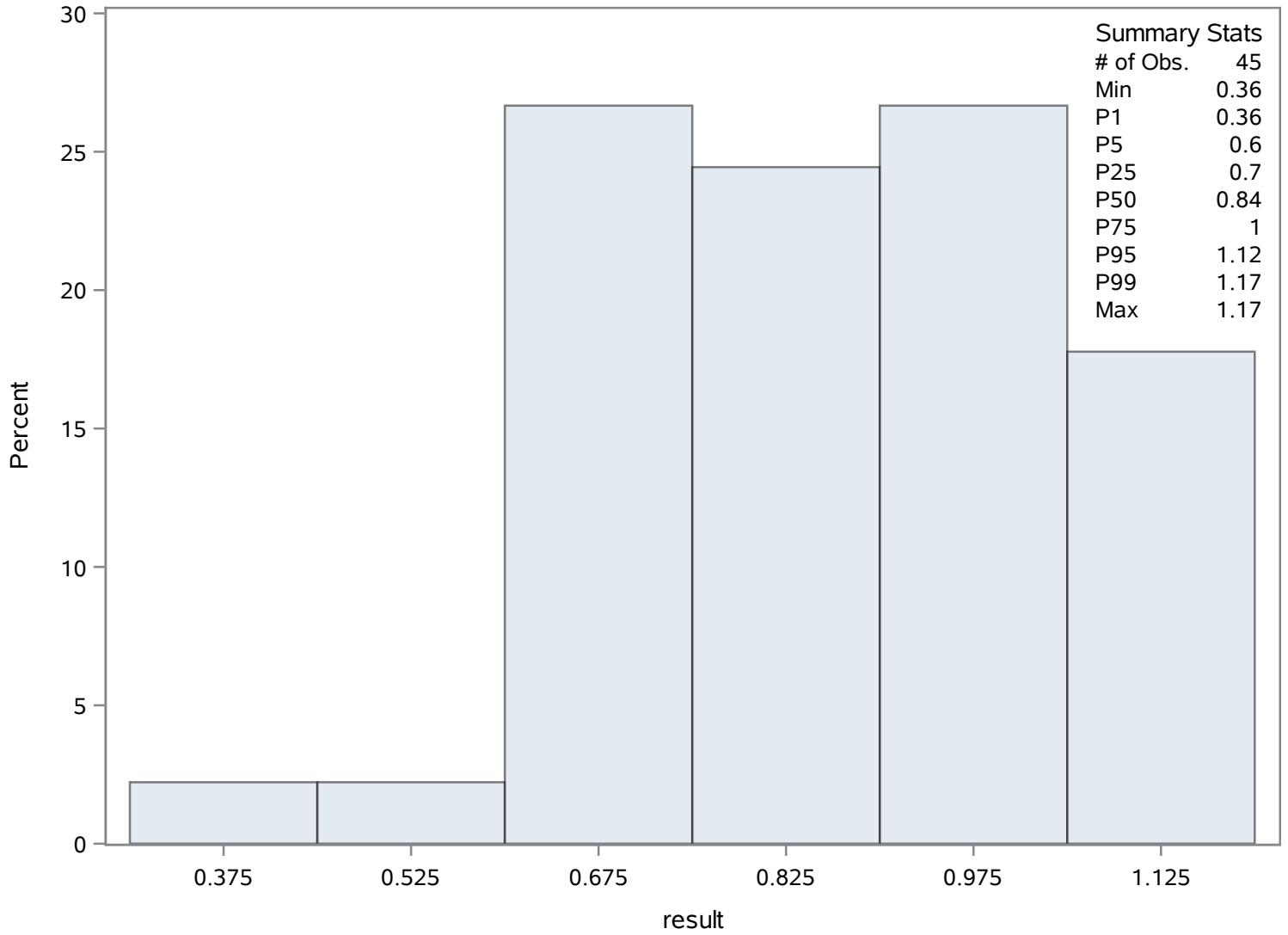
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.36	301	1.10	258
0.53	277	1.10	264
0.60	293	1.12	292
0.60	266	1.17	275
0.64	300	1.17	279

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth, bottom (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	9.36851852	Sum Observations	505.9
Std Deviation	2.75081628	Variance	7.56699022
Skewness	0.09044181	Kurtosis	-0.6842786
Uncorrected SS	5140.584	Corrected SS	401.050481
Coeff Variation	29.3623402	Std Error Mean	0.37433868

Basic Statistical Measures			
Location		Variability	
Mean	9.368519	Std Deviation	2.75082
Median	9.430000	Variance	7.56699
Mode	6.680000	Range	11.08000
		Interquartile Range	4.16000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.02685	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.03
99%	15.03
95%	14.58
90%	12.60
75% Q3	11.42
50% Median	9.43
25% Q1	7.26
10%	5.66
5%	4.69

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

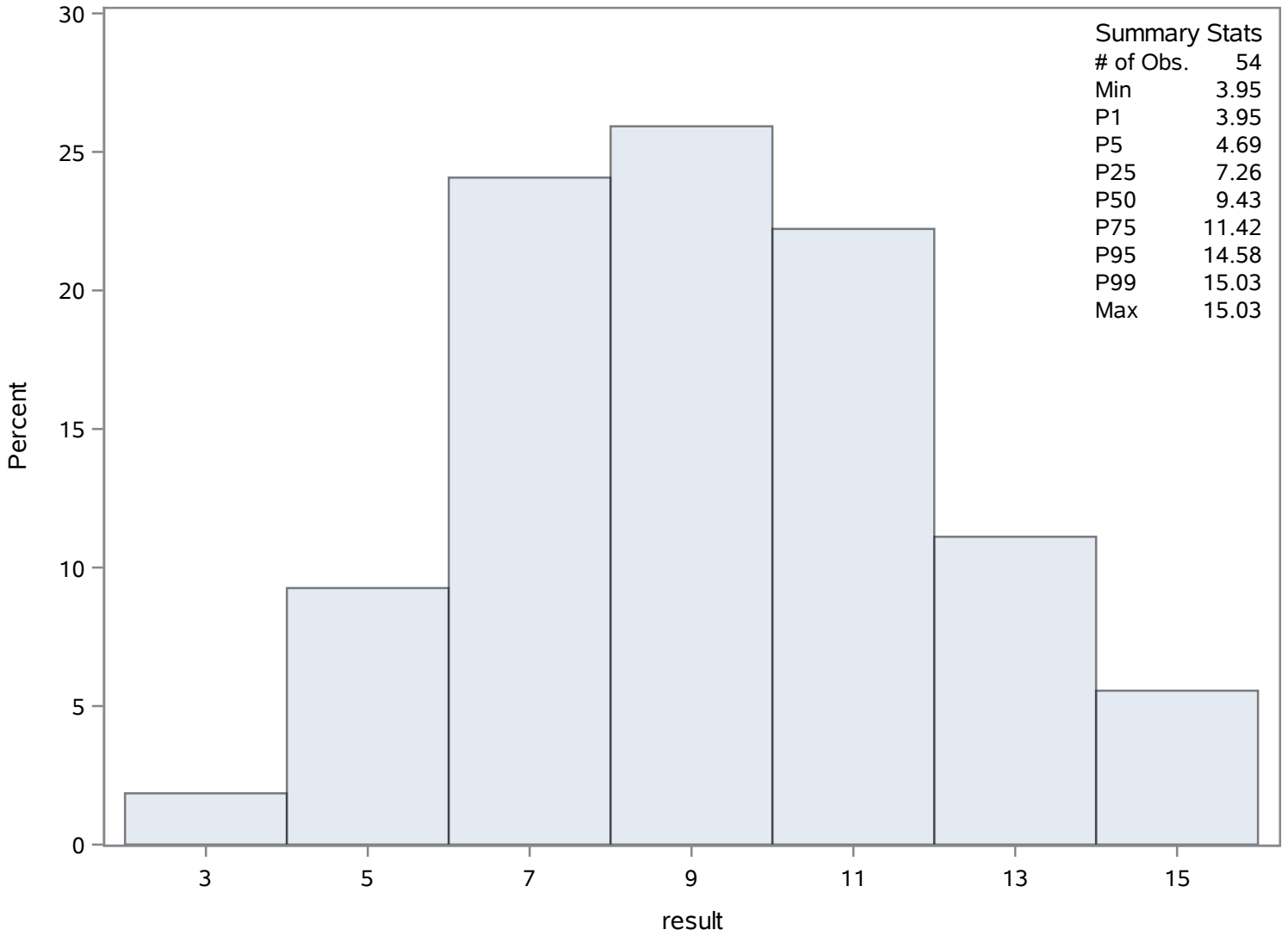
Quantiles (Definition 5)	
Level	Quantile
1%	3.95
0% Min	3.95

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.95	318	13.10	310
4.68	312	13.31	356
4.69	354	14.58	327
5.21	337	14.96	315
5.25	346	15.03	342

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	12.6435135	Sum Observations	467.81
Std Deviation	14.7920942	Variance	218.806051
Skewness	3.57639464	Kurtosis	15.4688938
Uncorrected SS	13791.7799	Corrected SS	7877.01784
Coeff Variation	116.993541	Std Error Mean	2.43180531

Basic Statistical Measures			
Location		Variability	
Mean	12.64351	Std Deviation	14.79209
Median	8.65000	Variance	218.80605
Mode	2.50000	Range	81.80000
		Interquartile Range	7.36000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	5.199229	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	84.30
99%	84.30
95%	40.90
90%	30.80
75% Q3	12.70
50% Median	8.65
25% Q1	5.34
10%	2.50
5%	2.50
1%	2.50
0% Min	2.50

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

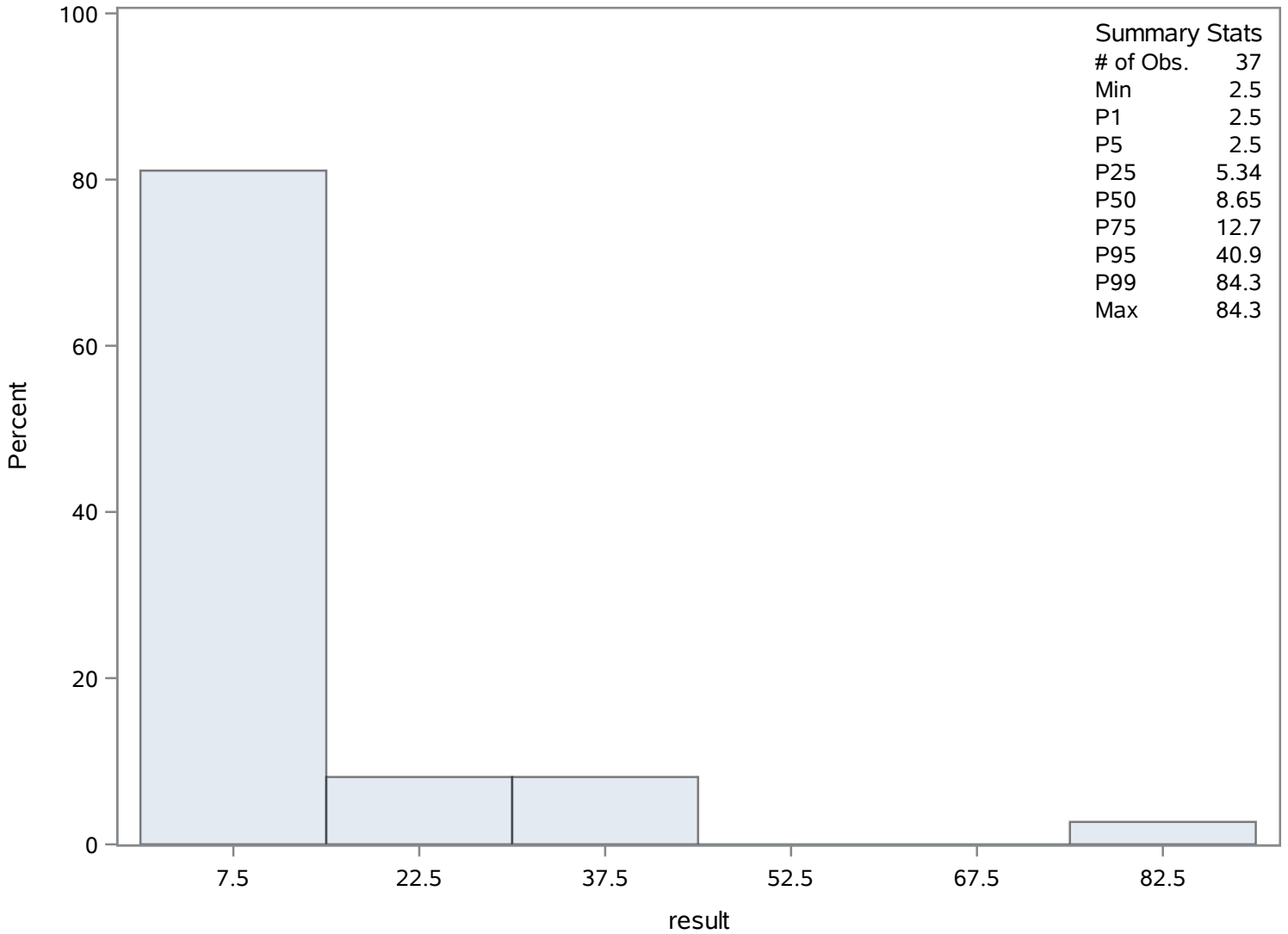
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.5	370	18.8	384
2.5	368	30.8	387
2.5	367	31.7	383
2.5	364	40.9	374
2.5	358	84.3	390

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	69.4555556	Sum Observations	1875.3
Std Deviation	18.4182462	Variance	339.231795
Skewness	0.25318804	Kurtosis	0.67719779
Uncorrected SS	139070.03	Corrected SS	8820.02667
Coeff Variation	26.5180317	Std Error Mean	3.54459314

Basic Statistical Measures			
Location		Variability	
Mean	69.45556	Std Deviation	18.41825
Median	70.00000	Variance	339.23179
Mode	70.00000	Range	84.20000
		Interquartile Range	22.00000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.59479	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	115.0
99%	115.0
95%	102.0
90%	93.3
75% Q3	79.6
50% Median	70.0
25% Q1	57.6
10%	42.5
5%	40.7

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	30.8
0% Min	30.8

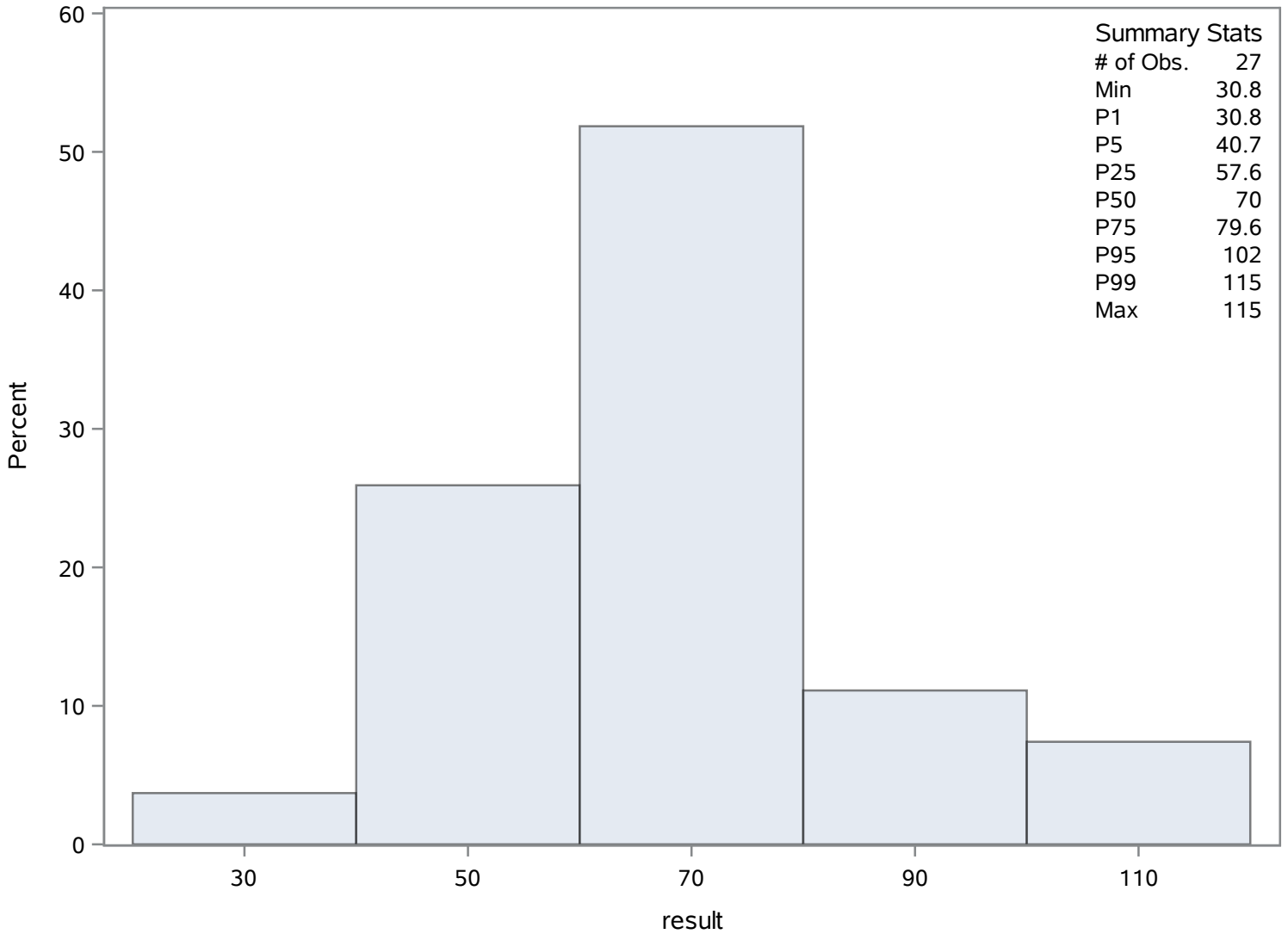
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
30.8	415	82.2	420
40.7	414	89.0	395
42.5	410	93.3	399
52.0	402	102.0	400
53.6	411	115.0	397

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	0.40996296	Sum Observations	22.138
Std Deviation	0.07002101	Variance	0.00490294
Skewness	-0.4778599	Kurtosis	-0.5247344
Uncorrected SS	9.335616	Corrected SS	0.25985593
Coeff Variation	17.0798383	Std Error Mean	0.00952865

Basic Statistical Measures			
Location		Variability	
Mean	0.409963	Std Deviation	0.07002
Median	0.422000	Variance	0.00490
Mode	0.371000	Range	0.26700
		Interquartile Range	0.09200

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	43.02423	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.516
99%	0.516
95%	0.506
90%	0.502
75% Q3	0.459
50% Median	0.422
25% Q1	0.367
10%	0.306
5%	0.271

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.249
0% Min	0.249

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.249	454	0.503	451
0.257	440	0.504	457
0.271	441	0.506	461
0.298	427	0.513	449
0.302	435	0.516	456

Chassahowitzka River - Fixed Station

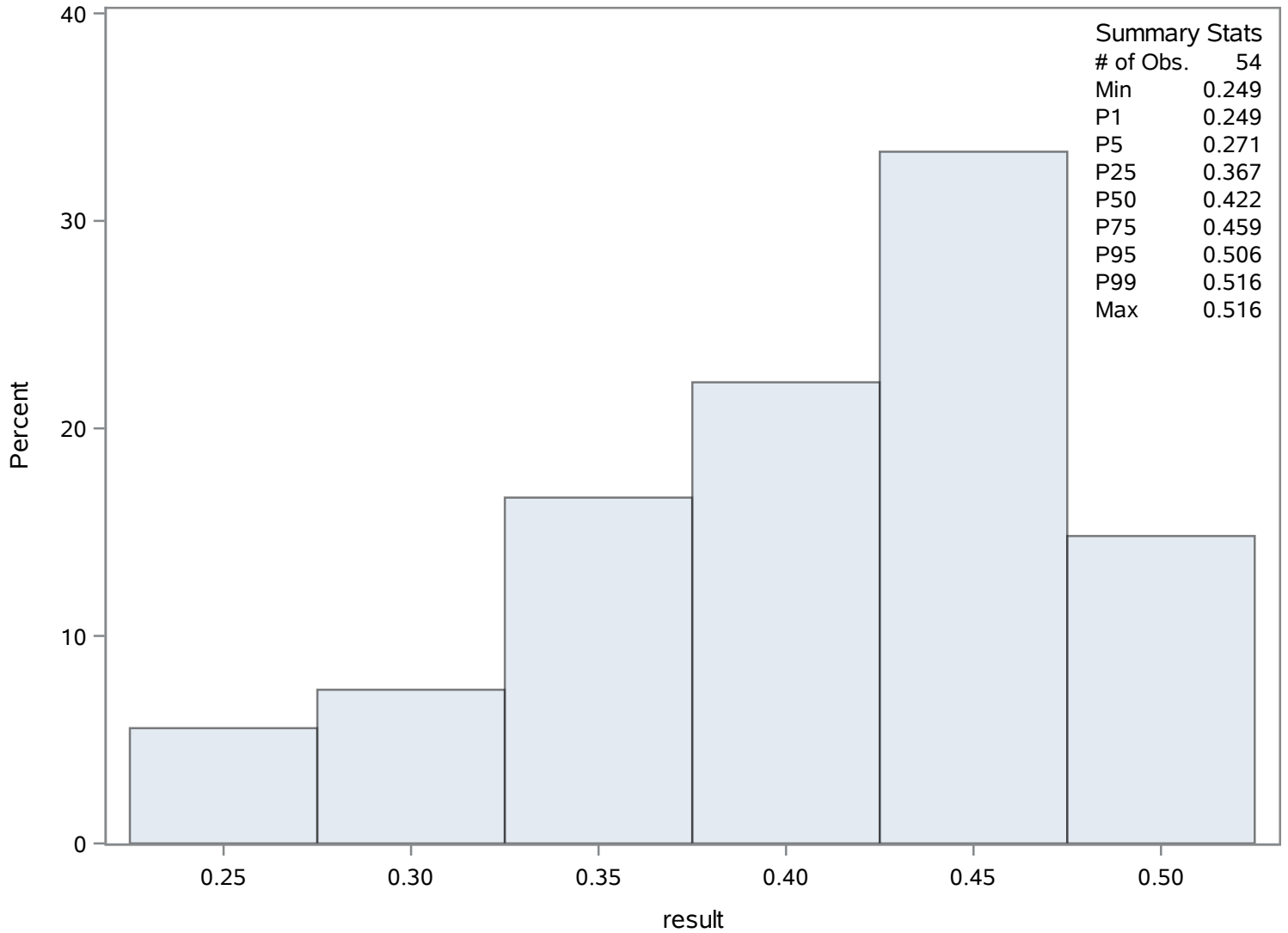
Source: Coastal Rivers

Chassahowitzka River CV 0.5

Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	0.00560345	Sum Observations	0.325
Std Deviation	0.00152108	Variance	2.31367E-6
Skewness	1.01975651	Kurtosis	0.47818301
Uncorrected SS	0.001953	Corrected SS	0.00013188
Coeff Variation	27.1453558	Std Error Mean	0.00019973

Basic Statistical Measures			
Location		Variability	
Mean	0.005603	Std Deviation	0.00152
Median	0.005000	Variance	2.31367E-6
Mode	0.005000	Range	0.00700
		Interquartile Range	0.00100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	28.05553	Pr > t 	<.0001
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.010
99%	0.010
95%	0.009
90%	0.008
75% Q3	0.006
50% Median	0.005
25% Q1	0.005
10%	0.004
5%	0.004
1%	0.003
0% Min	0.003

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

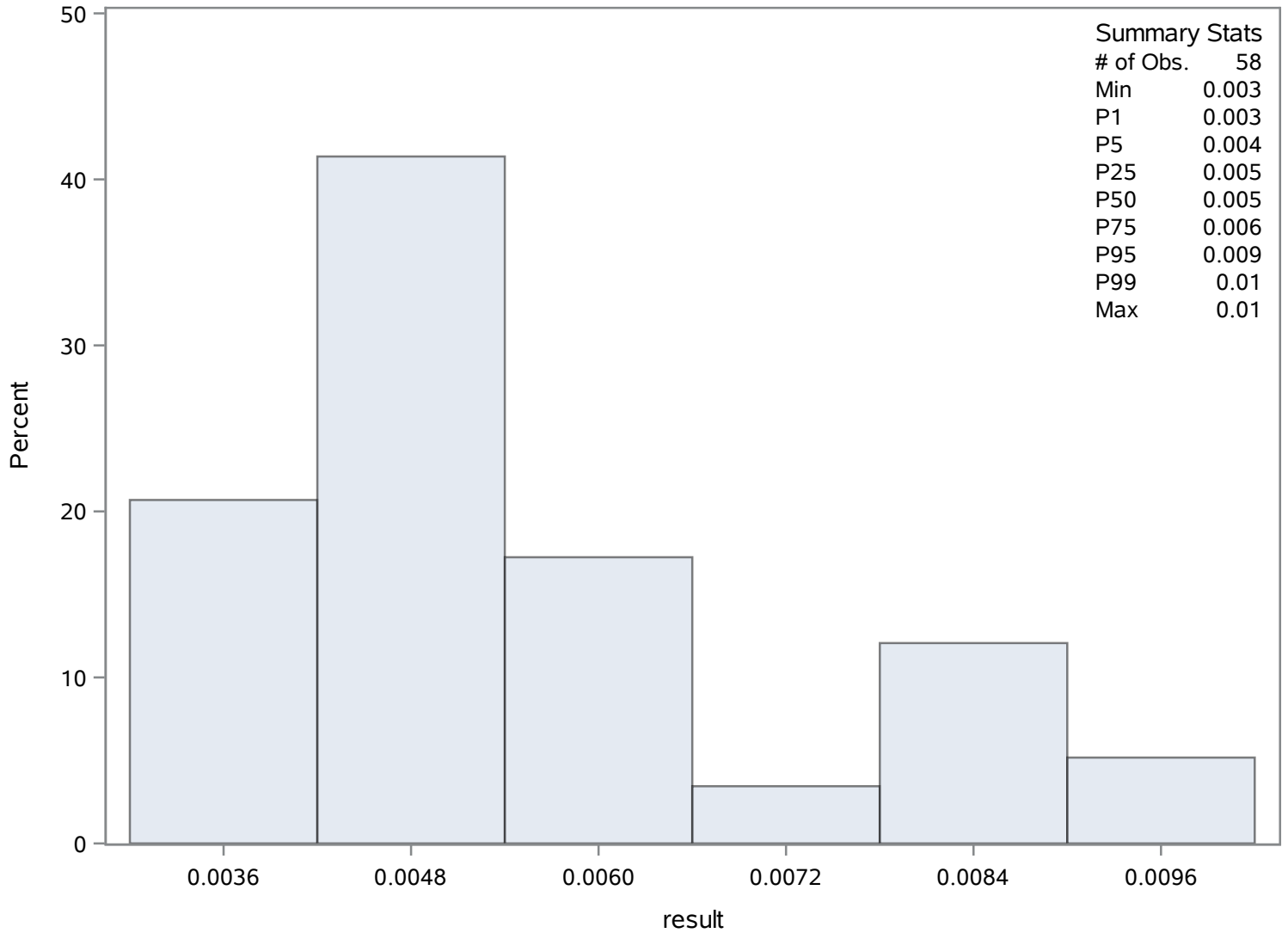
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.003	507	0.008	516
0.004	530	0.008	532
0.004	528	0.009	499
0.004	527	0.009	511
0.004	526	0.010	512

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	0.49448276	Sum Observations	28.68
Std Deviation	0.0789664	Variance	0.00623569
Skewness	-0.2469121	Kurtosis	-0.4182274
Uncorrected SS	14.5372	Corrected SS	0.35543448
Coeff Variation	15.9694956	Std Error Mean	0.0103688

Basic Statistical Measures			
Location		Variability	
Mean	0.494483	Std Deviation	0.07897
Median	0.505000	Variance	0.00624
Mode	0.550000	Range	0.38000
		Interquartile Range	0.12000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	47.6895	Pr > t 	<.0001
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.680
99%	0.680
95%	0.610
90%	0.590
75% Q3	0.550
50% Median	0.505
25% Q1	0.430
10%	0.380
5%	0.370
1%	0.300
0% Min	0.300

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

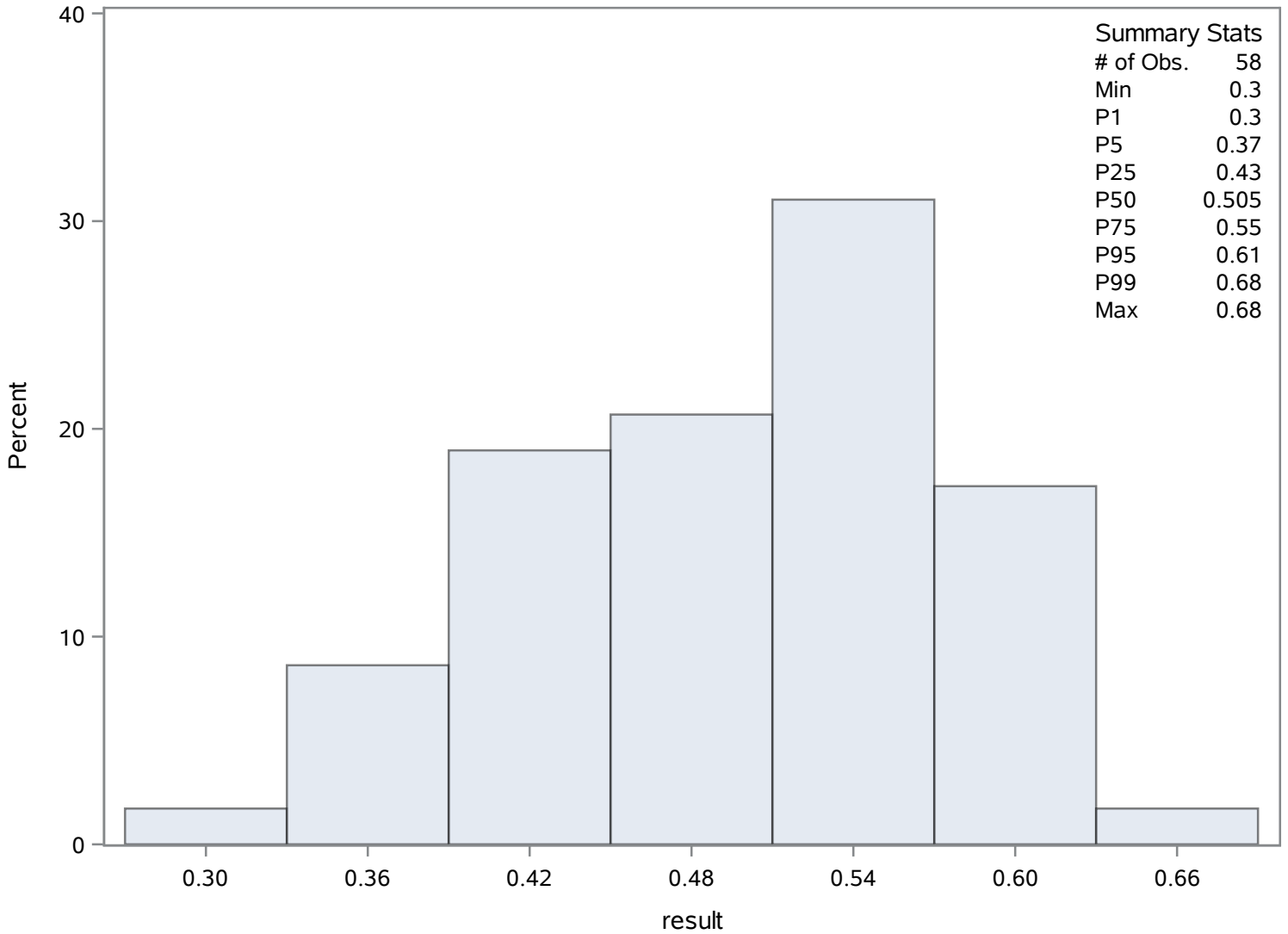
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	570	0.60	565
0.35	566	0.60	588
0.37	556	0.61	571
0.37	555	0.61	580
0.37	542	0.68	579

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	0.01165455	Sum Observations	0.641
Std Deviation	0.00333455	Variance	0.00001112
Skewness	2.49383162	Kurtosis	12.7582399
Uncorrected SS	0.008071	Corrected SS	0.00060044
Coeff Variation	28.6115426	Std Error Mean	0.00044963

Basic Statistical Measures			
Location		Variability	
Mean	0.011655	Std Deviation	0.00333
Median	0.012000	Variance	0.0000111
Mode	0.010000	Range	0.02300
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.9203	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.029
99%	0.029
95%	0.016
90%	0.015
75% Q3	0.013
50% Median	0.012
25% Q1	0.010
10%	0.008
5%	0.007
1%	0.006
0% Min	0.006

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Orthophosphate (P) (Dissolved) mg/L

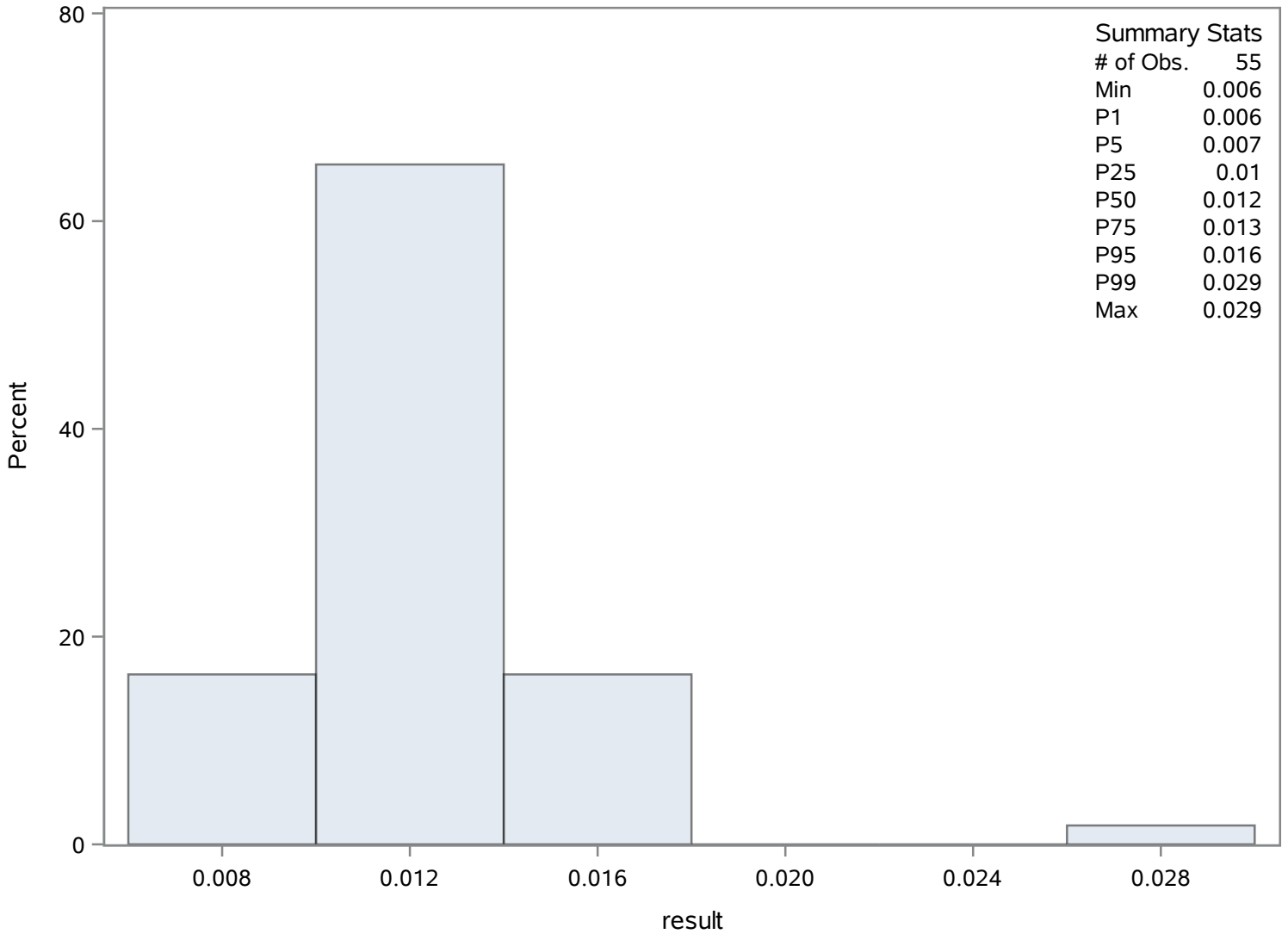
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	617	0.015	632
0.006	611	0.015	634
0.007	610	0.016	620
0.008	638	0.016	640
0.008	637	0.029	642

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	56	Sum Weights	56
Mean	1.69946429	Sum Observations	95.17
Std Deviation	0.98554908	Variance	0.97130698
Skewness	1.26789764	Kurtosis	0.47548259
Uncorrected SS	215.1599	Corrected SS	53.4218839
Coeff Variation	57.9917497	Std Error Mean	0.13169953

Basic Statistical Measures			
Location		Variability	
Mean	1.699464	Std Deviation	0.98555
Median	1.115000	Variance	0.97131
Mode	1.000000	Range	3.70000
		Interquartile Range	1.24500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.9041	Pr > t 	<.0001
Sign	M	28	Pr >= M 	<.0001
Signed Rank	S	798	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.700
99%	4.700
95%	3.600
90%	3.270
75% Q3	2.245
50% Median	1.115
25% Q1	1.000
10%	1.000
5%	1.000
1%	1.000
0% Min	1.000

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phaeophytin (Total) ug/L

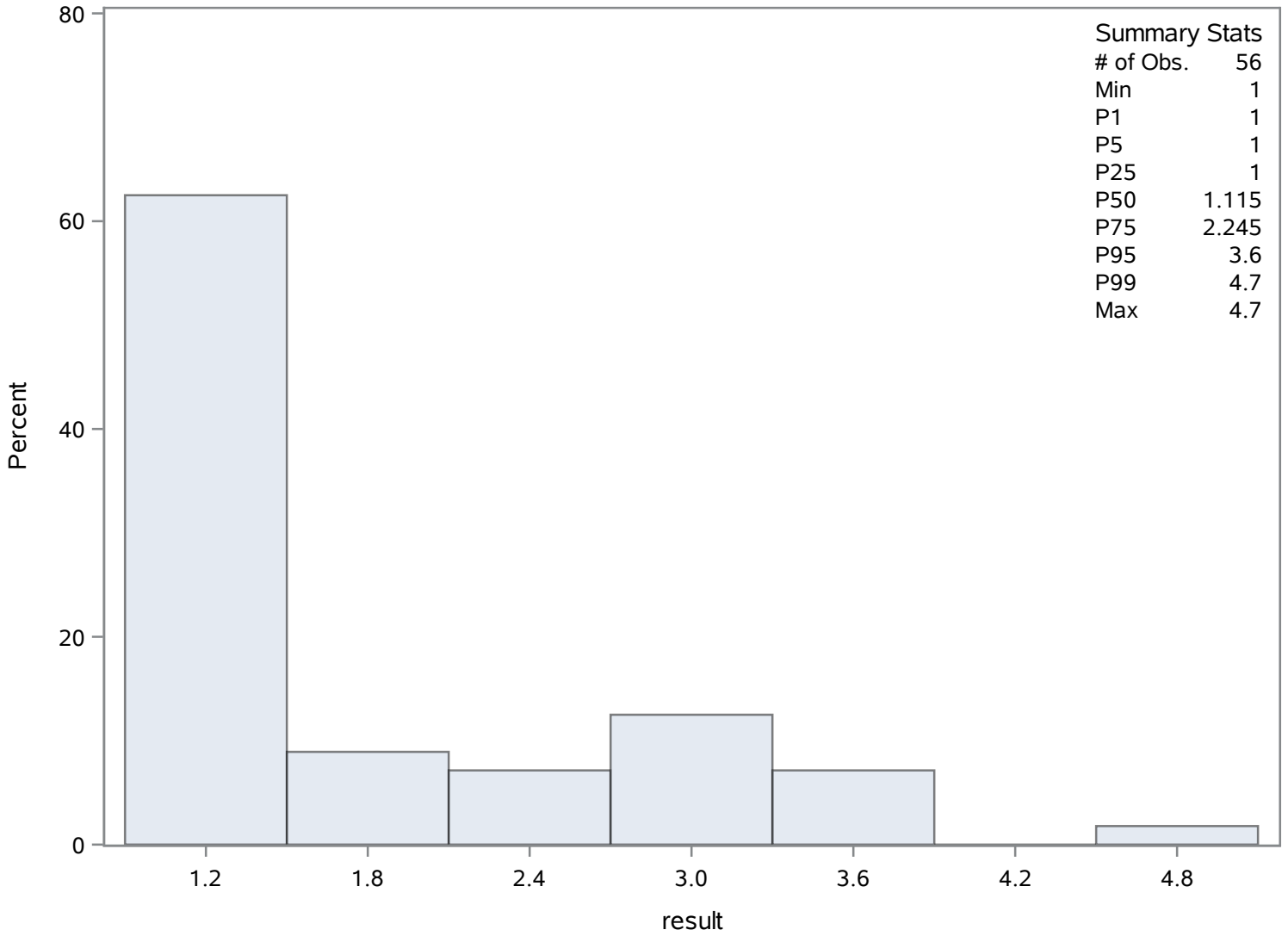
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	700	3.30	670
1	697	3.57	679
1	693	3.60	656
1	692	3.87	651
1	689	4.70	646

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	0.01961818	Sum Observations	1.079
Std Deviation	0.00739492	Variance	0.00005468
Skewness	5.33044806	Kurtosis	34.867213
Uncorrected SS	0.024121	Corrected SS	0.00295298
Coeff Variation	37.6942192	Std Error Mean	0.00099713

Basic Statistical Measures			
Location		Variability	
Mean	0.019618	Std Deviation	0.00739
Median	0.019000	Variance	0.0000547
Mode	0.019000	Range	0.05600
		Interquartile Range	0.00600

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.67463	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.068
99%	0.068
95%	0.026
90%	0.023
75% Q3	0.022
50% Median	0.019
25% Q1	0.016
10%	0.015
5%	0.014
1%	0.012
0% Min	0.012

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phosphorus- Total (Total) mg/L

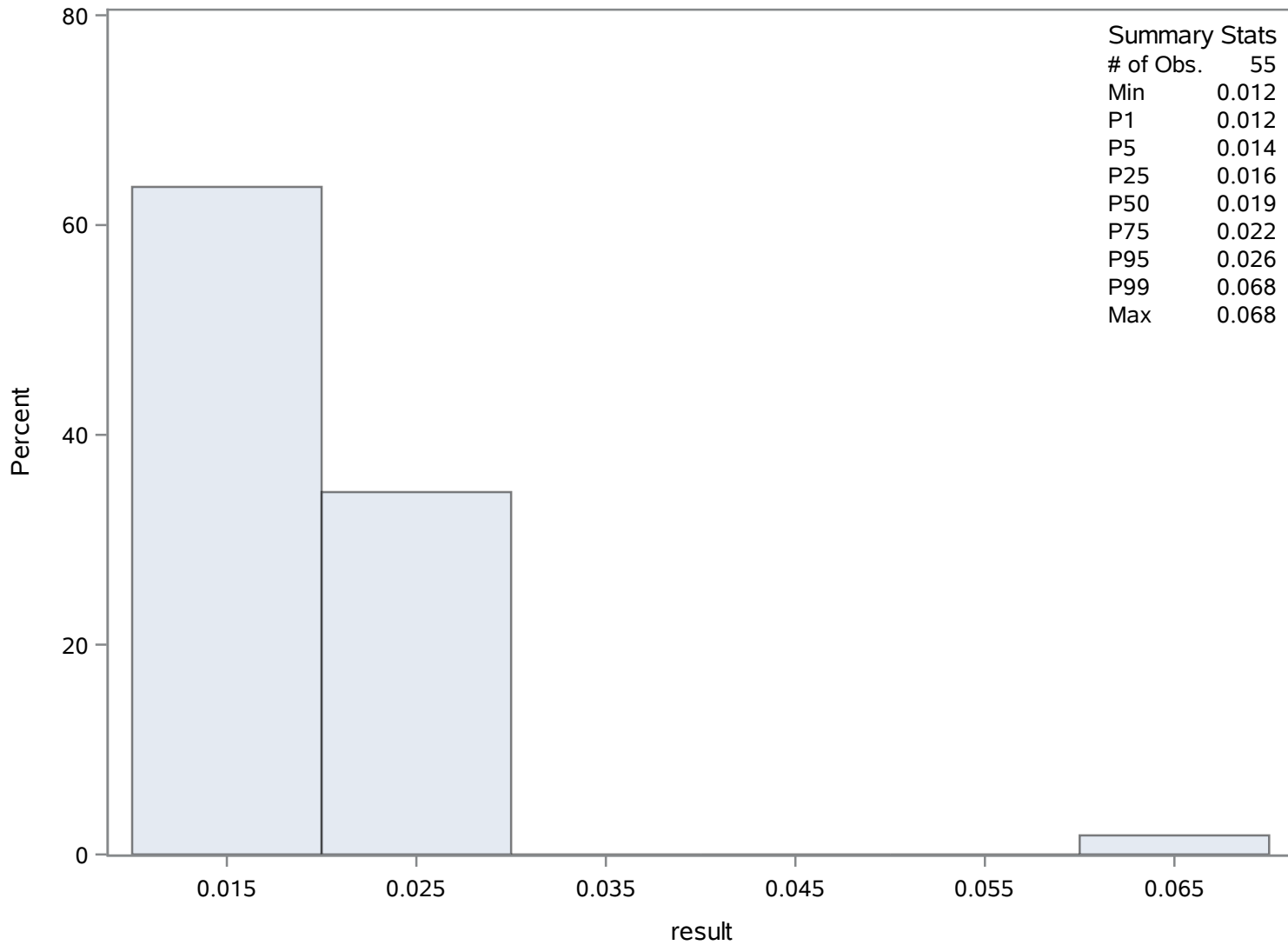
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.012	706	0.024	718
0.013	703	0.024	719
0.014	728	0.026	731
0.014	727	0.027	705
0.014	721	0.068	753

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	19.652963	Sum Observations	530.63
Std Deviation	5.62063219	Variance	31.5915063
Skewness	-0.0262446	Kurtosis	-0.0598276
Uncorrected SS	11249.8309	Corrected SS	821.379163
Coeff Variation	28.5994138	Std Error Mean	1.08169117

Basic Statistical Measures			
Location		Variability	
Mean	19.65296	Std Deviation	5.62063
Median	20.00000	Variance	31.59151
Mode	17.60000	Range	23.17000
		Interquartile Range	6.70000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.16874	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.70
99%	30.70
95%	29.20
90%	28.60
75% Q3	22.80
50% Median	20.00
25% Q1	16.10
10%	11.50
5%	10.40

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	7.53
0% Min	7.53

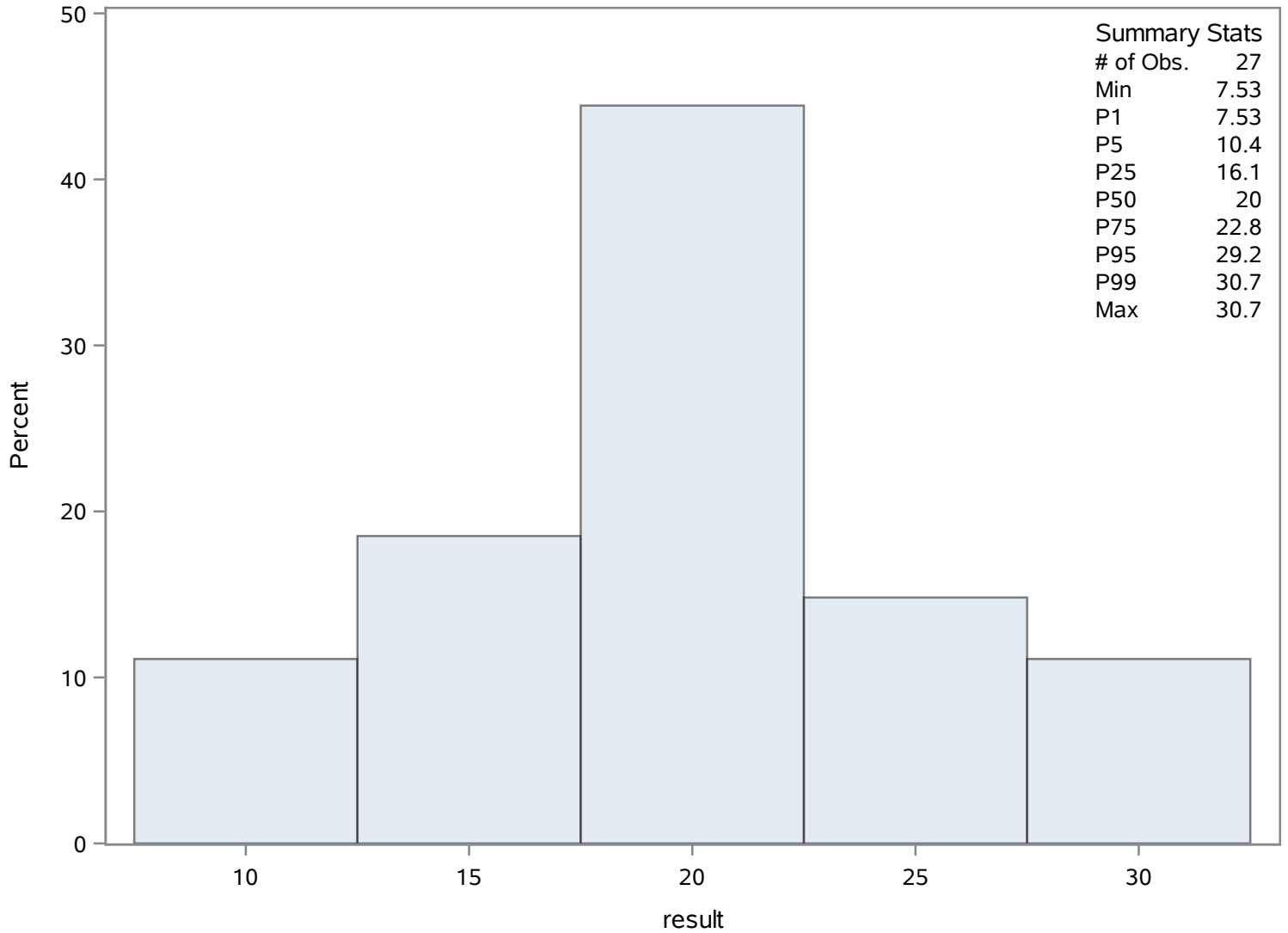
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.53	778	24.5	780
10.40	777	26.4	783
11.50	773	28.6	762
14.20	774	29.2	760
14.70	765	30.7	763

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	1.68648148	Sum Observations	91.07
Std Deviation	1.49629247	Variance	2.23889116
Skewness	4.44458809	Kurtosis	25.0530313
Uncorrected SS	272.2491	Corrected SS	118.661231
Coeff Variation	88.7227336	Std Error Mean	0.20361961

Basic Statistical Measures			
Location		Variability	
Mean	1.686481	Std Deviation	1.49629
Median	1.205000	Variance	2.23889
Mode	1.100000	Range	10.10000
		Interquartile Range	0.78000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.28251	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.700
99%	10.700
95%	3.640
90%	3.000
75% Q3	1.850
50% Median	1.205
25% Q1	1.070
10%	0.740
5%	0.640
1%	0.600
0% Min	0.600

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Nonfilterable (TSS) (Total) mg/L

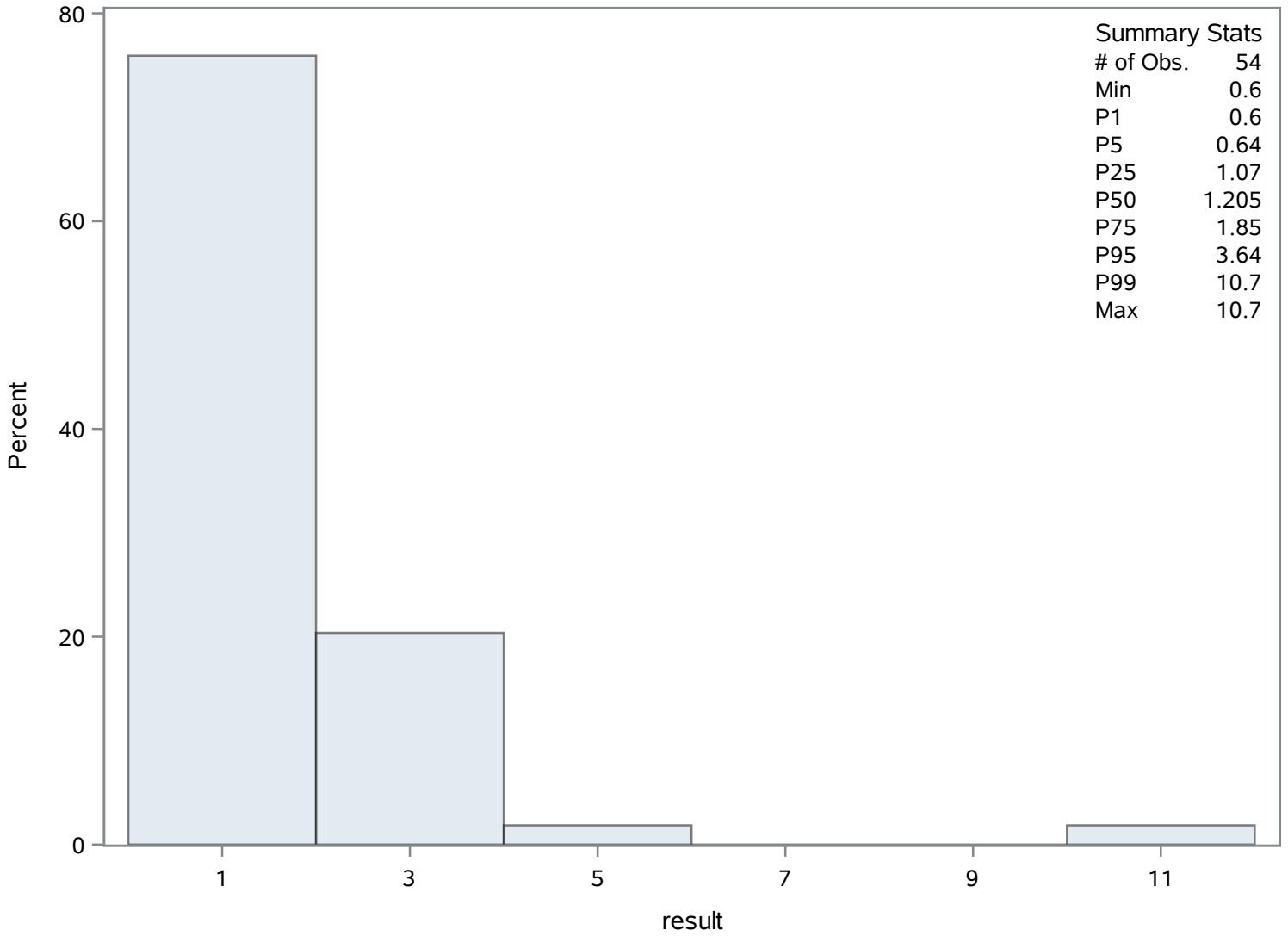
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	821	3.31	788
0.60	820	3.31	815
0.64	797	3.64	784
0.72	808	4.37	812
0.72	803	10.70	785

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	1.05685185	Sum Observations	57.07
Std Deviation	0.45489714	Variance	0.20693141
Skewness	1.58924711	Kurtosis	3.27203663
Uncorrected SS	71.2819	Corrected SS	10.9673648
Coeff Variation	43.0426595	Std Error Mean	0.06190366

Basic Statistical Measures			
Location		Variability	
Mean	1.056852	Std Deviation	0.45490
Median	0.960000	Variance	0.20693
Mode	1.100000	Range	2.43000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.07253	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.80
99%	2.80
95%	1.91
90%	1.76
75% Q3	1.22
50% Median	0.96
25% Q1	0.72
10%	0.65
5%	0.60
1%	0.37
0% Min	0.37

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Volatile (Total) mg/L

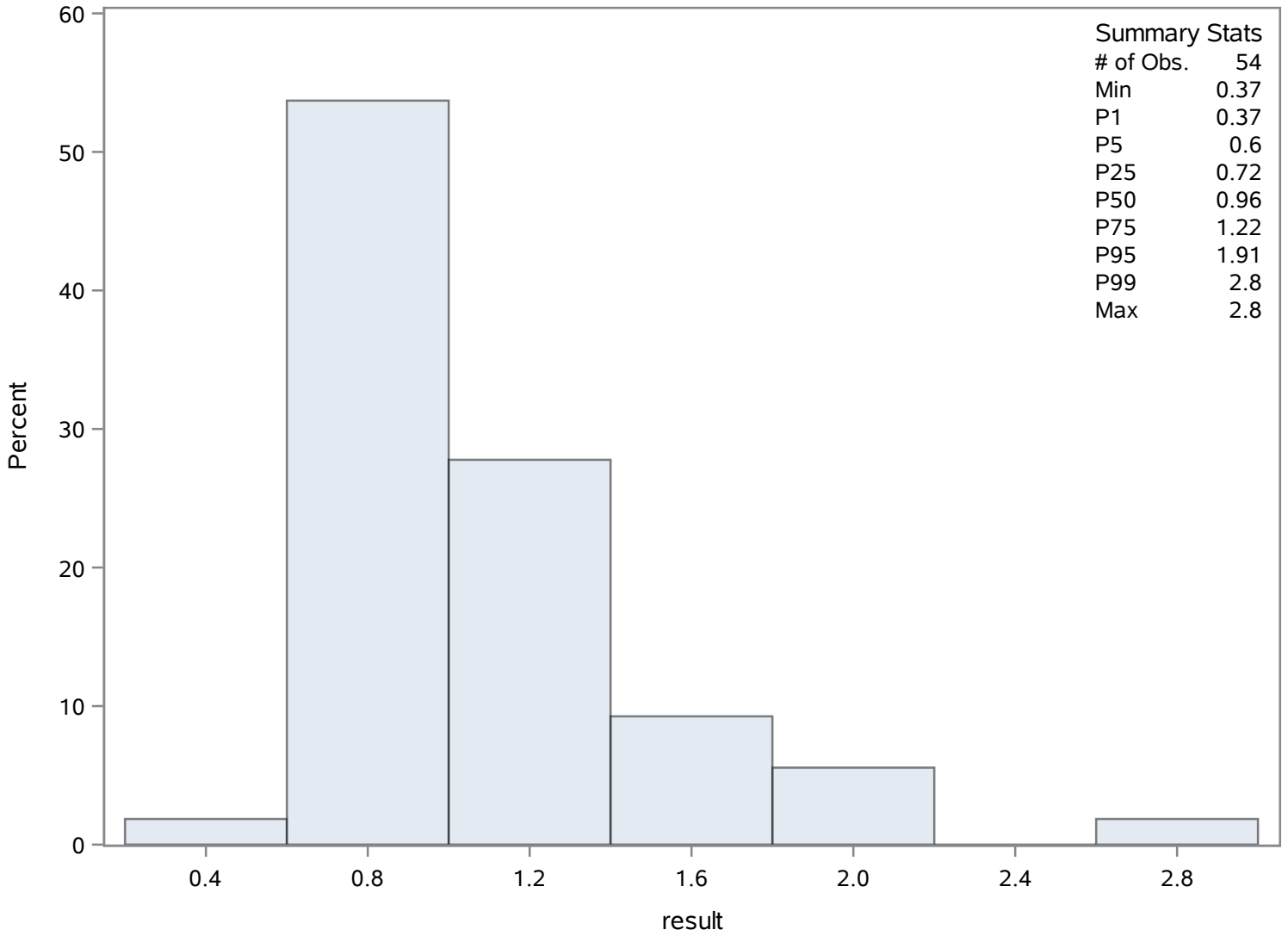
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.37	851	1.76	882
0.60	875	1.83	888
0.60	874	1.91	855
0.61	873	2.18	869
0.61	852	2.80	866

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	2.06589744	Sum Observations	80.57
Std Deviation	0.58708342	Variance	0.34466694
Skewness	0.05121744	Kurtosis	-0.1053676
Uncorrected SS	179.5467	Corrected SS	13.0973436
Coeff Variation	28.4178394	Std Error Mean	0.09400858

Basic Statistical Measures			
Location		Variability	
Mean	2.065897	Std Deviation	0.58708
Median	1.940000	Variance	0.34467
Mode	1.940000	Range	2.62000
		Interquartile Range	0.73000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.97563	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.40
99%	3.40
95%	3.05
90%	2.90
75% Q3	2.46
50% Median	1.94
25% Q1	1.73
10%	1.28
5%	1.00
1%	0.78
0% Min	0.78

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Salinity (Total) ppt

The UNIVARIATE Procedure
Variable: result

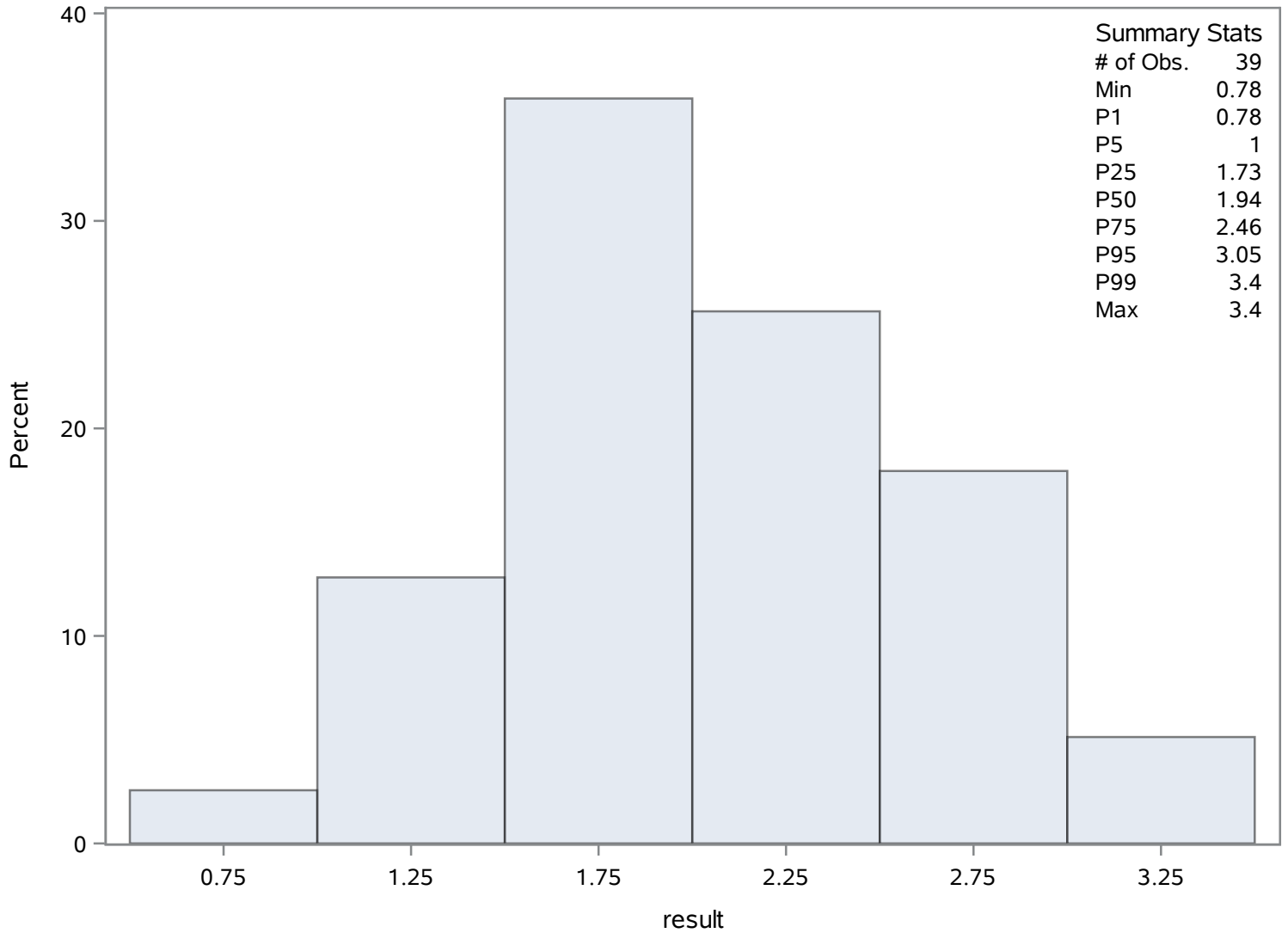
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.78	925	2.86	897
1.00	924	2.90	910
1.09	920	2.93	892
1.28	921	3.05	896
1.36	918	3.40	907

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Coastal Rivers

Chassahowitzka River CV 0.5

Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	5.87687308	Sum Observations	305.5974
Std Deviation	2.2144511	Variance	4.90379369
Skewness	0.4200354	Kurtosis	0.29661834
Uncorrected SS	2046.05061	Corrected SS	250.093478
Coeff Variation	37.6807713	Std Error Mean	0.30708912

Basic Statistical Measures			
Location		Variability	
Mean	5.876873	Std Deviation	2.21445
Median	5.670000	Variance	4.90379
Mode	3.505000	Range	10.67000
		Interquartile Range	2.36400

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.13735	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.040
99%	12.040
95%	9.906
90%	9.200
75% Q3	6.858
50% Median	5.670
25% Q1	4.494
10%	3.000
5%	2.210

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure
Variable: result

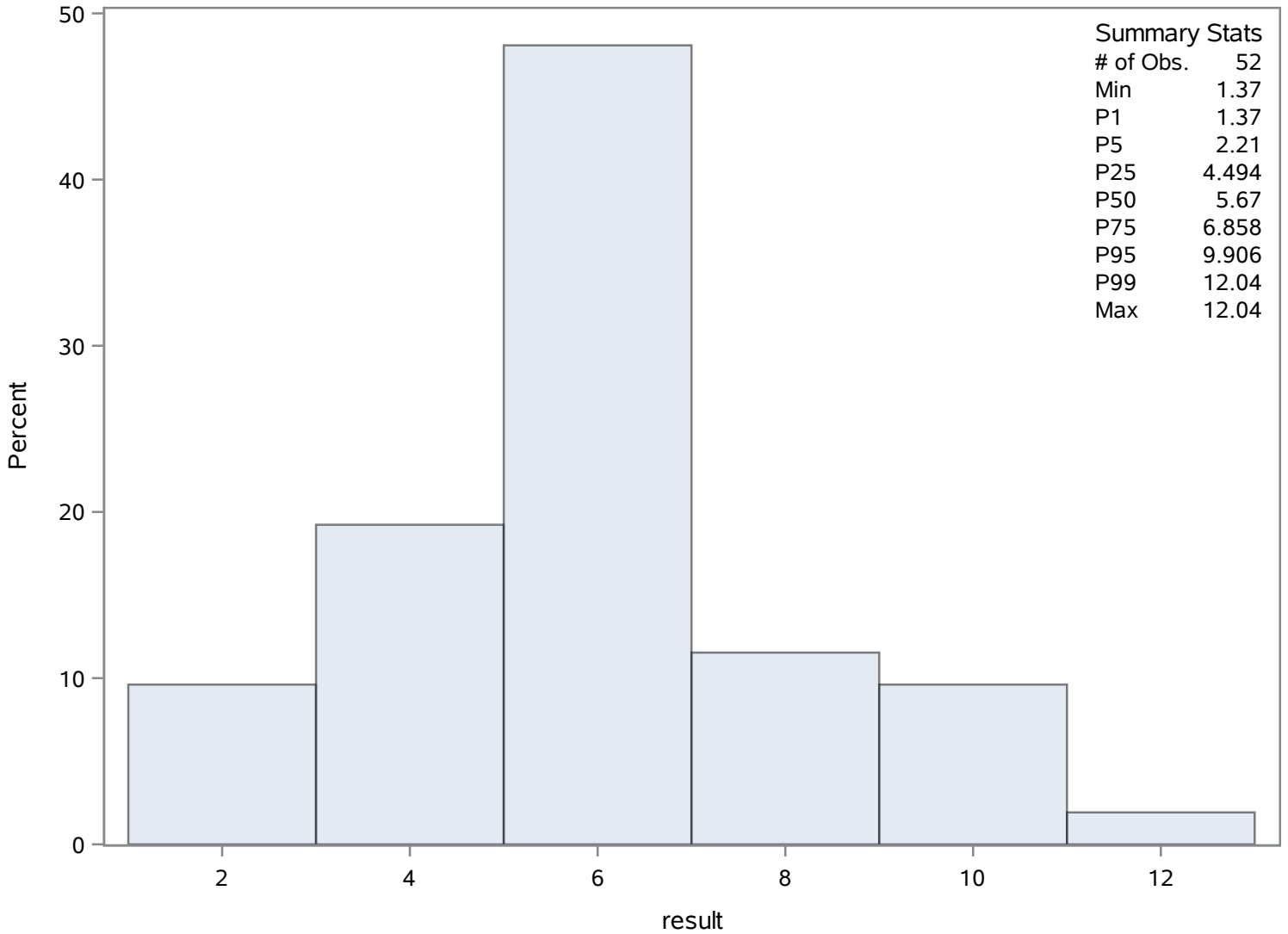
Quantiles (Definition 5)	
Level	Quantile
1%	1.370
0% Min	1.370

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.37	934	9.296	942
2.06	979	9.530	969
2.21	975	9.906	943
2.59	972	9.950	961
2.90	973	12.040	948

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	505.703704	Sum Observations	13654
Std Deviation	145.868965	Variance	21277.755
Skewness	0.11275856	Kurtosis	0.34116552
Uncorrected SS	7458100	Corrected SS	553221.63
Coeff Variation	28.8447492	Std Error Mean	28.0724954

Basic Statistical Measures			
Location		Variability	
Mean	505.7037	Std Deviation	145.86897
Median	521.0000	Variance	21278
Mode	.	Range	631.00000
		Interquartile Range	164.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.01421	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	822
99%	822
95%	785
90%	715
75% Q3	574
50% Median	521
25% Q1	410
10%	301
5%	269
1%	191
0% Min	191

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

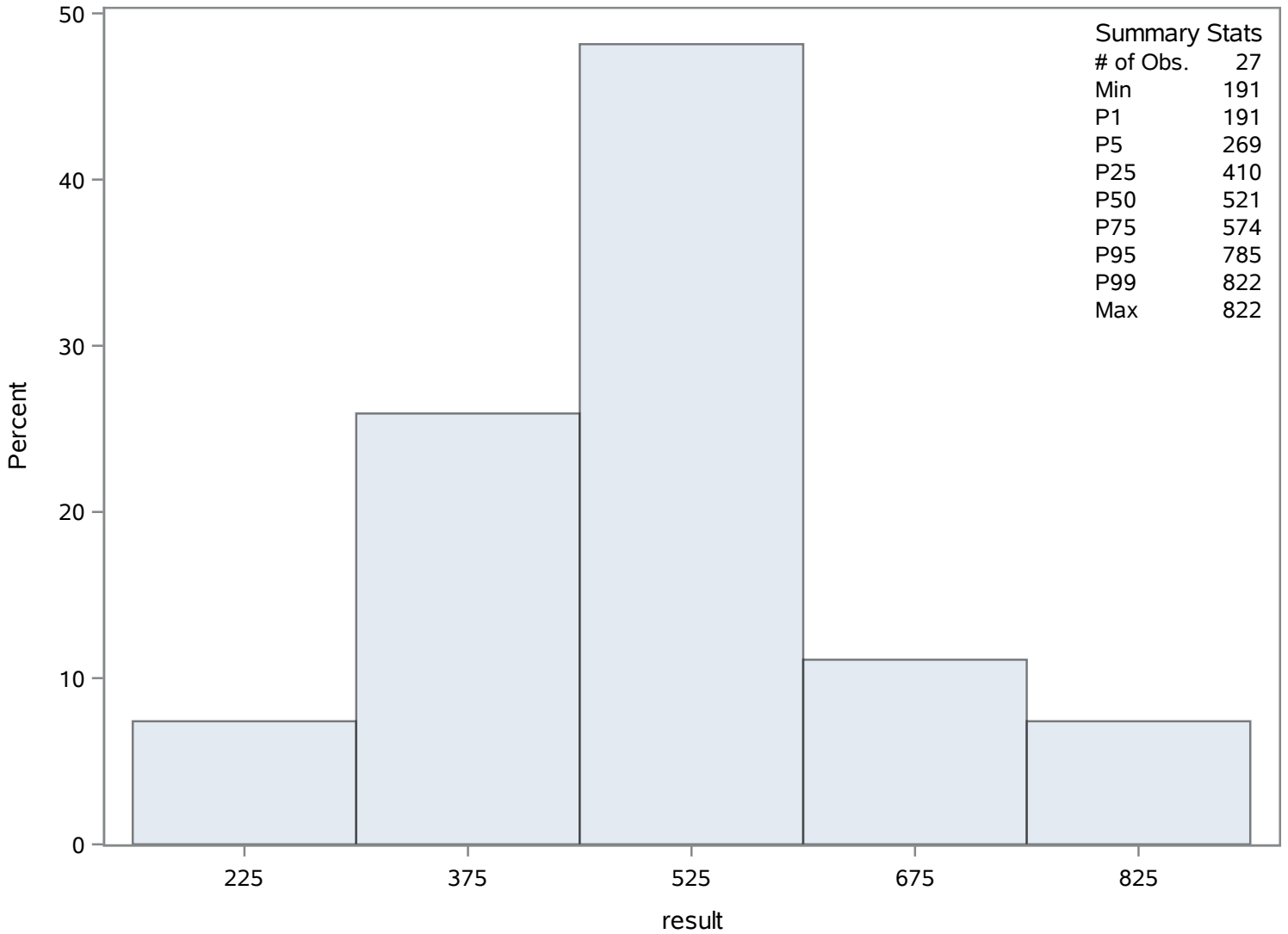
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
191	1004	608	1009
269	1003	676	984
301	999	715	988
363	991	785	989
378	1000	822	986

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 0.5
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	4031.44444	Sum Observations	217698
Std Deviation	1139.55502	Variance	1298585.65
Skewness	0.33798775	Kurtosis	0.19596248
Uncorrected SS	946462432	Corrected SS	68825039.3
Coeff Variation	28.2666681	Std Error Mean	155.073797

Basic Statistical Measures			
Location		Variability	
Mean	4031.444	Std Deviation	1140
Median	3938.000	Variance	1298586
Mode	2817.000	Range	5246
		Interquartile Range	1390

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.99694	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6800
99%	6800
95%	6313
90%	5305
75% Q3	4704
50% Median	3938
25% Q1	3314
10%	2633
5%	2138
1%	1554
0% Min	1554

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Specific Conductance (Total) uS/cm

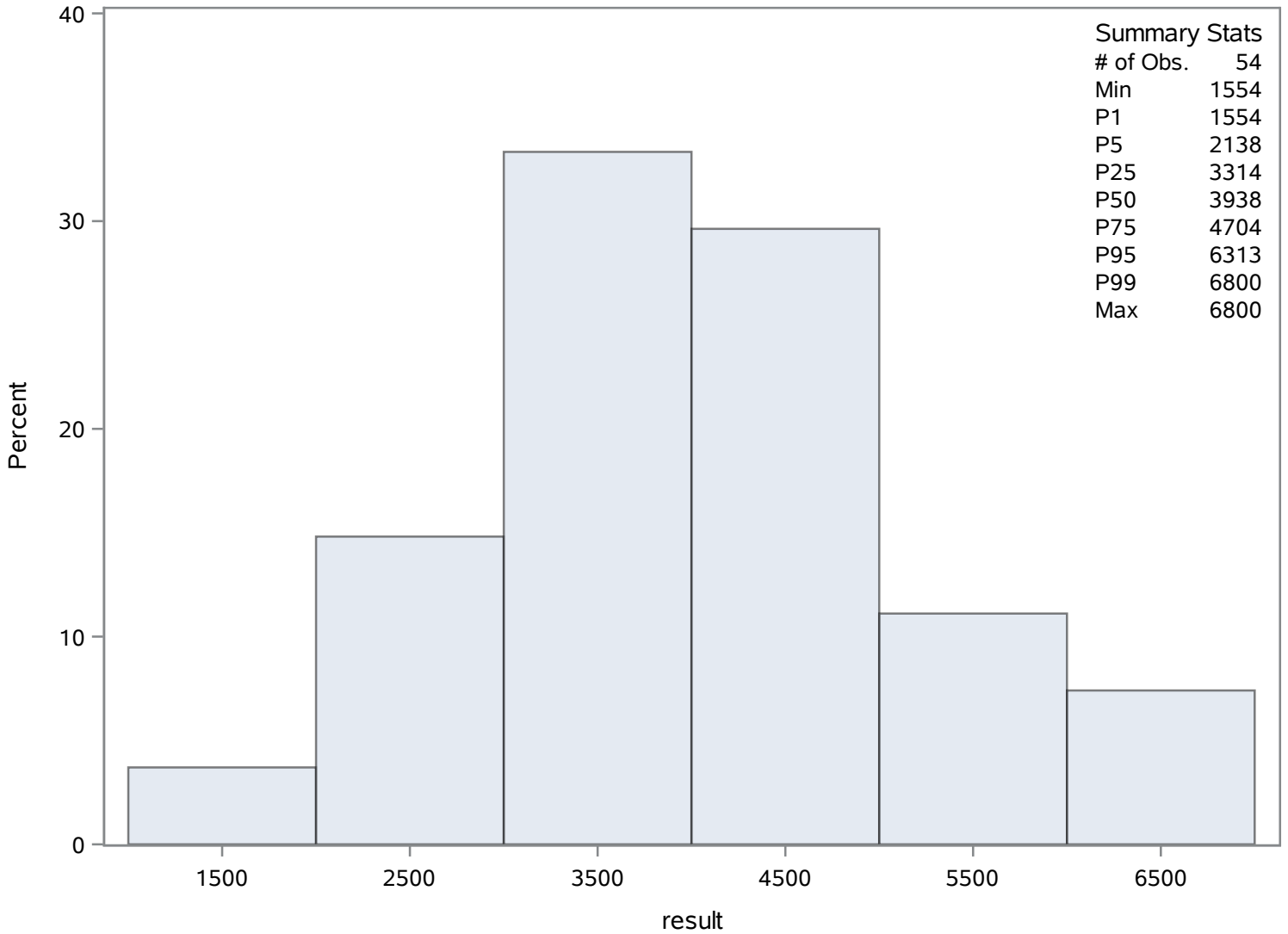
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1554	1058	5453	1043
1955	1057	6163	1029
2138	1053	6313	1040
2540	1054	6737	1019
2625	1051	6800	1018

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	23.9305556	Sum Observations	1292.25
Std Deviation	1.03612197	Variance	1.07354874
Skewness	-0.8512118	Kurtosis	0.8887916
Uncorrected SS	30981.1585	Corrected SS	56.8980833
Coeff Variation	4.32970296	Std Error Mean	0.14099834

Basic Statistical Measures			
Location		Variability	
Mean	23.93056	Std Deviation	1.03612
Median	23.94500	Variance	1.07355
Mode	24.40000	Range	4.80000
		Interquartile Range	1.22000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	169.7222	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.800
99%	25.800
95%	25.290
90%	25.130
75% Q3	24.660
50% Median	23.945
25% Q1	23.440
10%	22.600
5%	21.620
1%	21.000
0% Min	21.000

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Temperature (Total) Deg. C

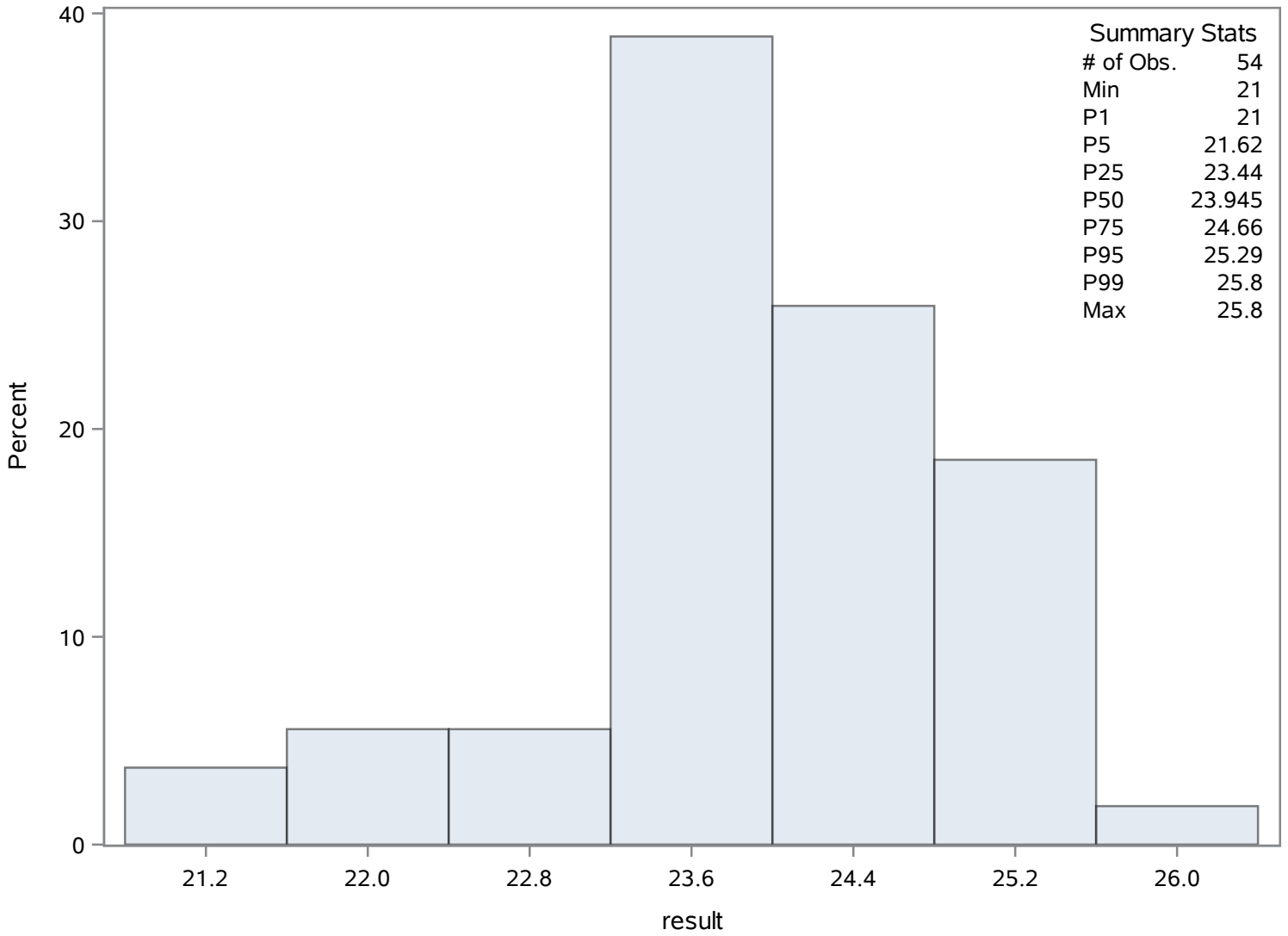
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21.00	1112	25.17	1089
21.27	1092	25.21	1067
21.62	1104	25.29	1110
21.84	1108	25.54	1084
22.24	1100	25.80	1114

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	0.70672727	Sum Observations	38.87
Std Deviation	0.5888943	Variance	0.3467965
Skewness	1.04279467	Kurtosis	0.91141828
Uncorrected SS	46.1975	Corrected SS	18.7270109
Coeff Variation	83.3269529	Std Error Mean	0.07940649

Basic Statistical Measures			
Location		Variability	
Mean	0.706727	Std Deviation	0.58889
Median	0.710000	Variance	0.34680
Mode	0.130000	Range	2.49000
		Interquartile Range	0.93000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.90012	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.62
99%	2.62
95%	1.95
90%	1.60
75% Q3	1.06
50% Median	0.71
25% Q1	0.13
10%	0.13
5%	0.13
1%	0.13
0% Min	0.13

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Turbidity (Total) NTU

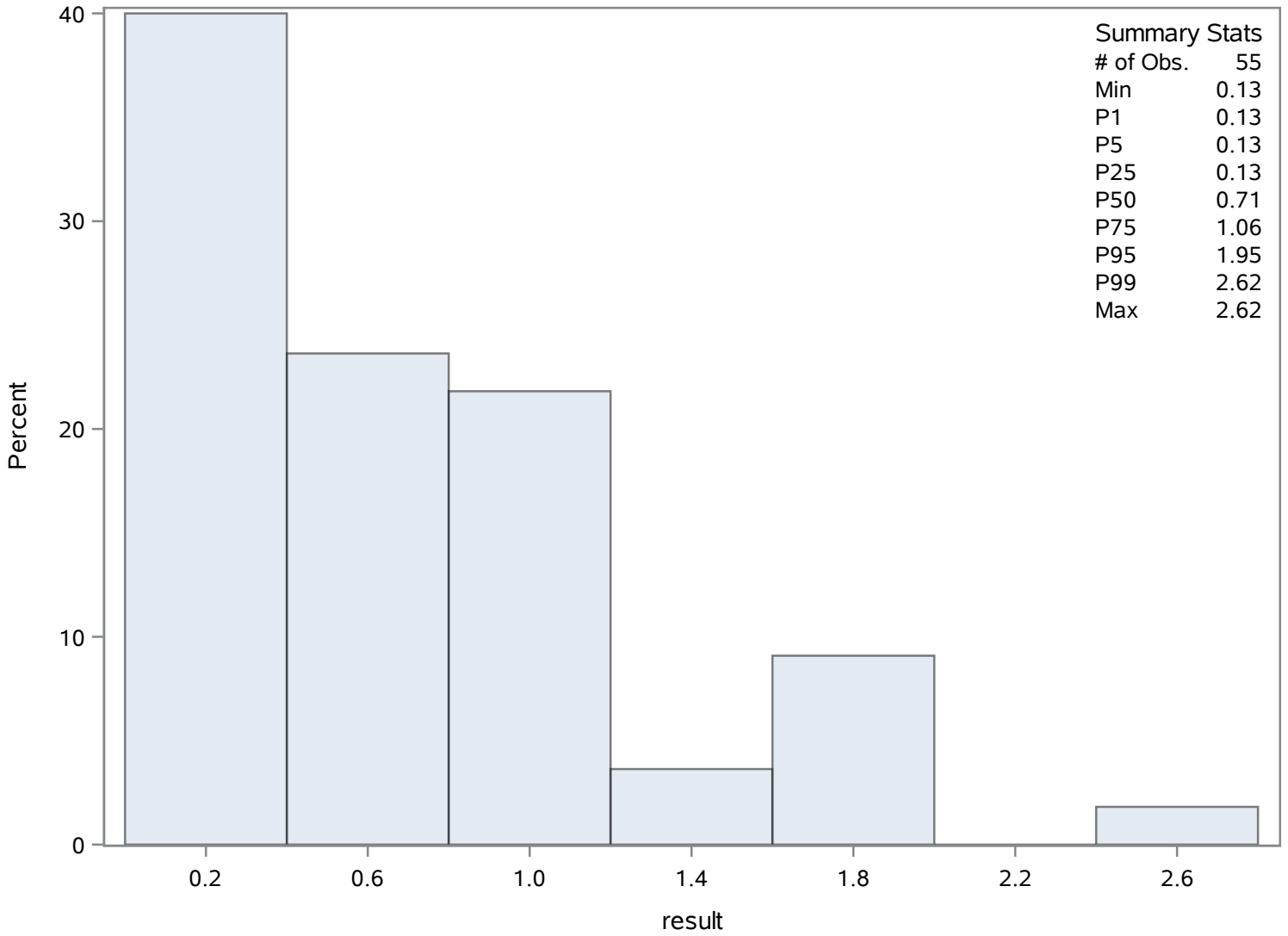
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	1145	1.65	1118
0.13	1144	1.68	1165
0.13	1143	1.95	1169
0.13	1140	1.97	1127
0.13	1137	2.62	1147

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	7.78148148	Sum Observations	420.2
Std Deviation	0.30742023	Variance	0.0945072
Skewness	0.11218644	Kurtosis	-0.4064575
Uncorrected SS	3274.7874	Corrected SS	5.00888148
Coeff Variation	3.95066454	Std Error Mean	0.04183459

Basic Statistical Measures			
Location		Variability	
Mean	7.781481	Std Deviation	0.30742
Median	7.780000	Variance	0.09451
Mode	7.600000	Range	1.37000
		Interquartile Range	0.36000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	186.0059	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.55
99%	8.55
95%	8.25
90%	8.22
75% Q3	7.96
50% Median	7.78
25% Q1	7.60
10%	7.33
5%	7.26
1%	7.18
0% Min	7.18

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
pH (Total) SU

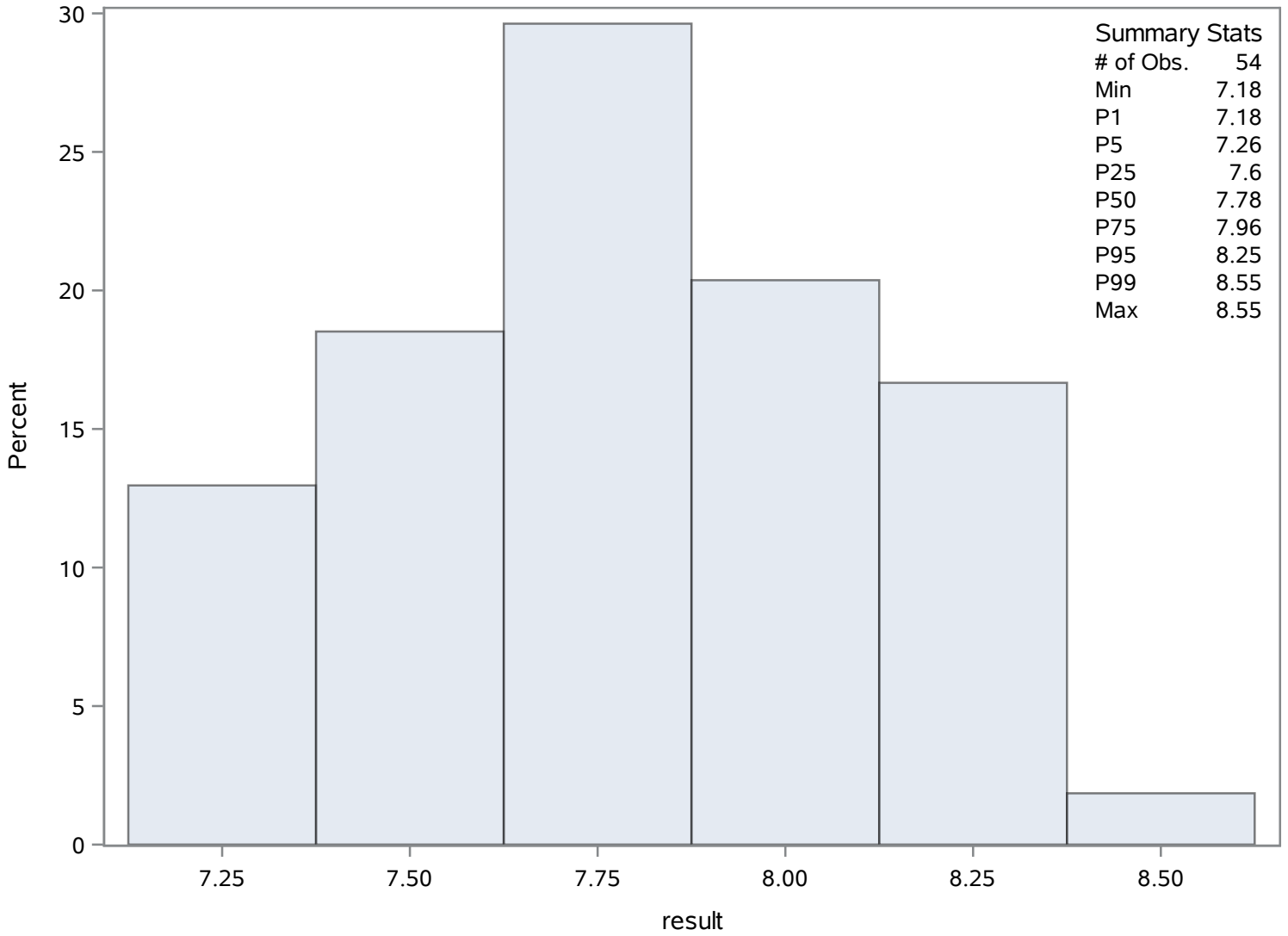
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.18	1216	8.22	1214
7.26	1203	8.23	1201
7.26	1199	8.25	1226
7.30	1215	8.26	1210
7.32	1220	8.55	1191

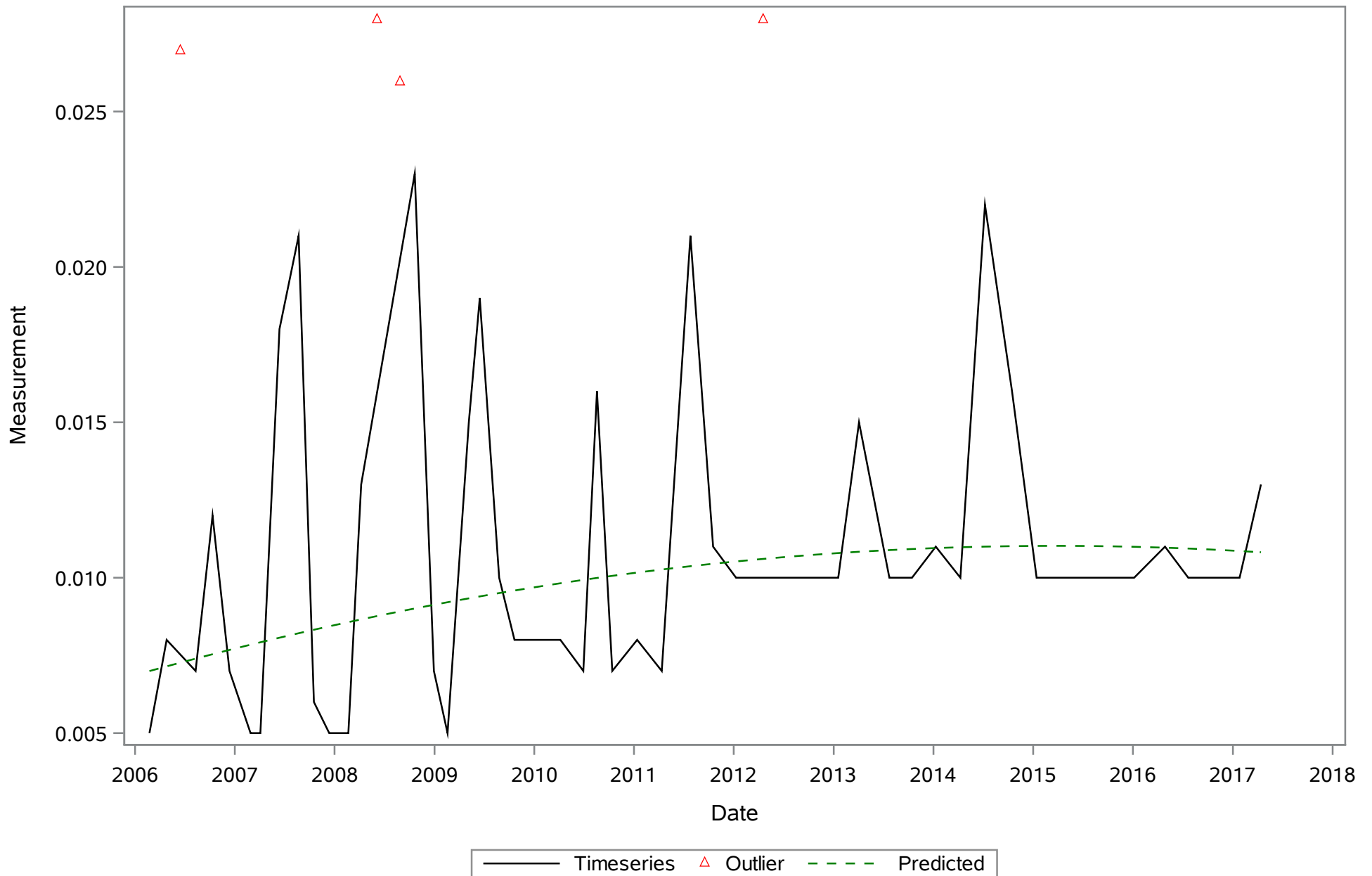
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
pH (Total) SU

The UNIVARIATE Procedure

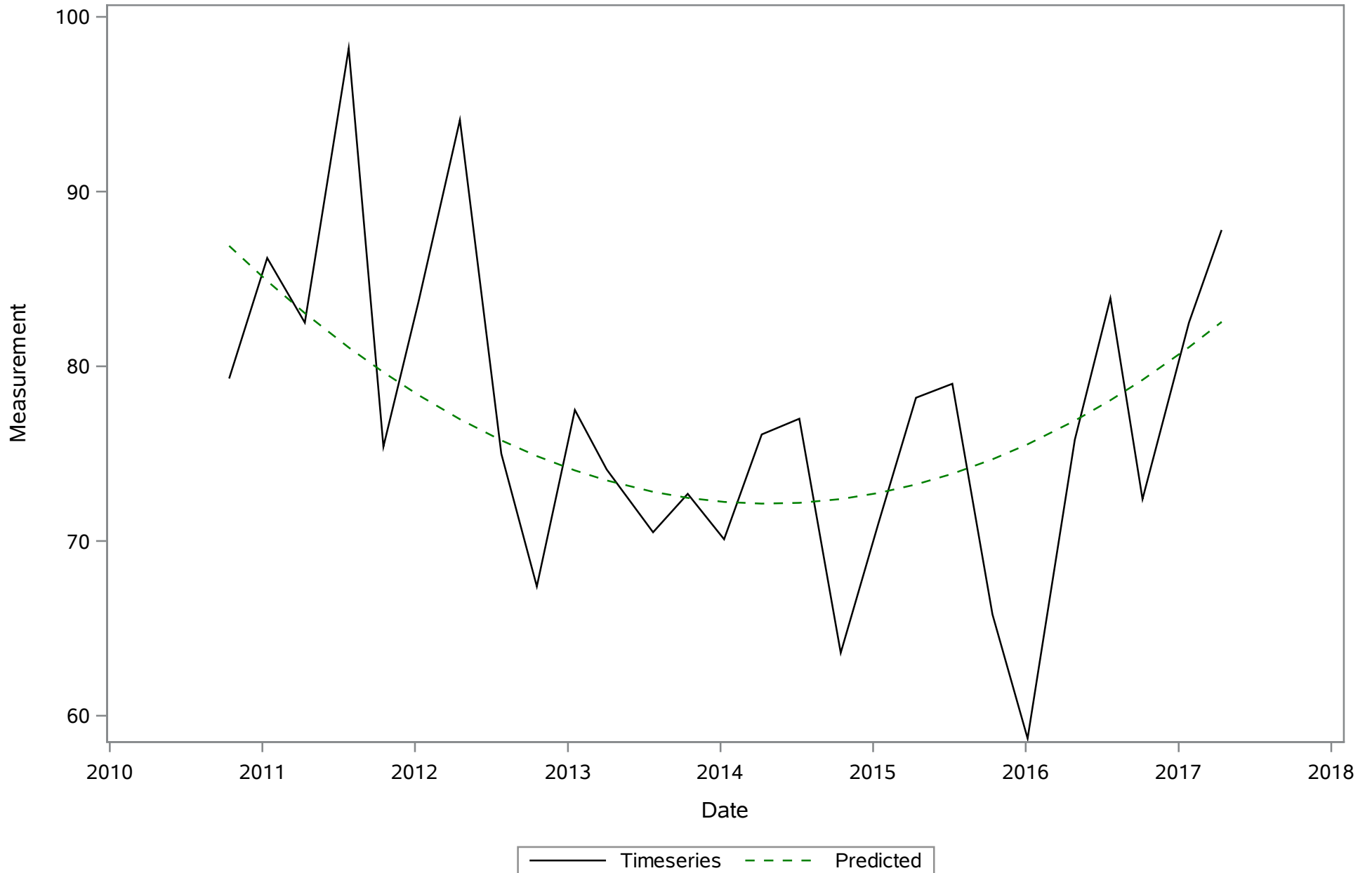
Distribution of result



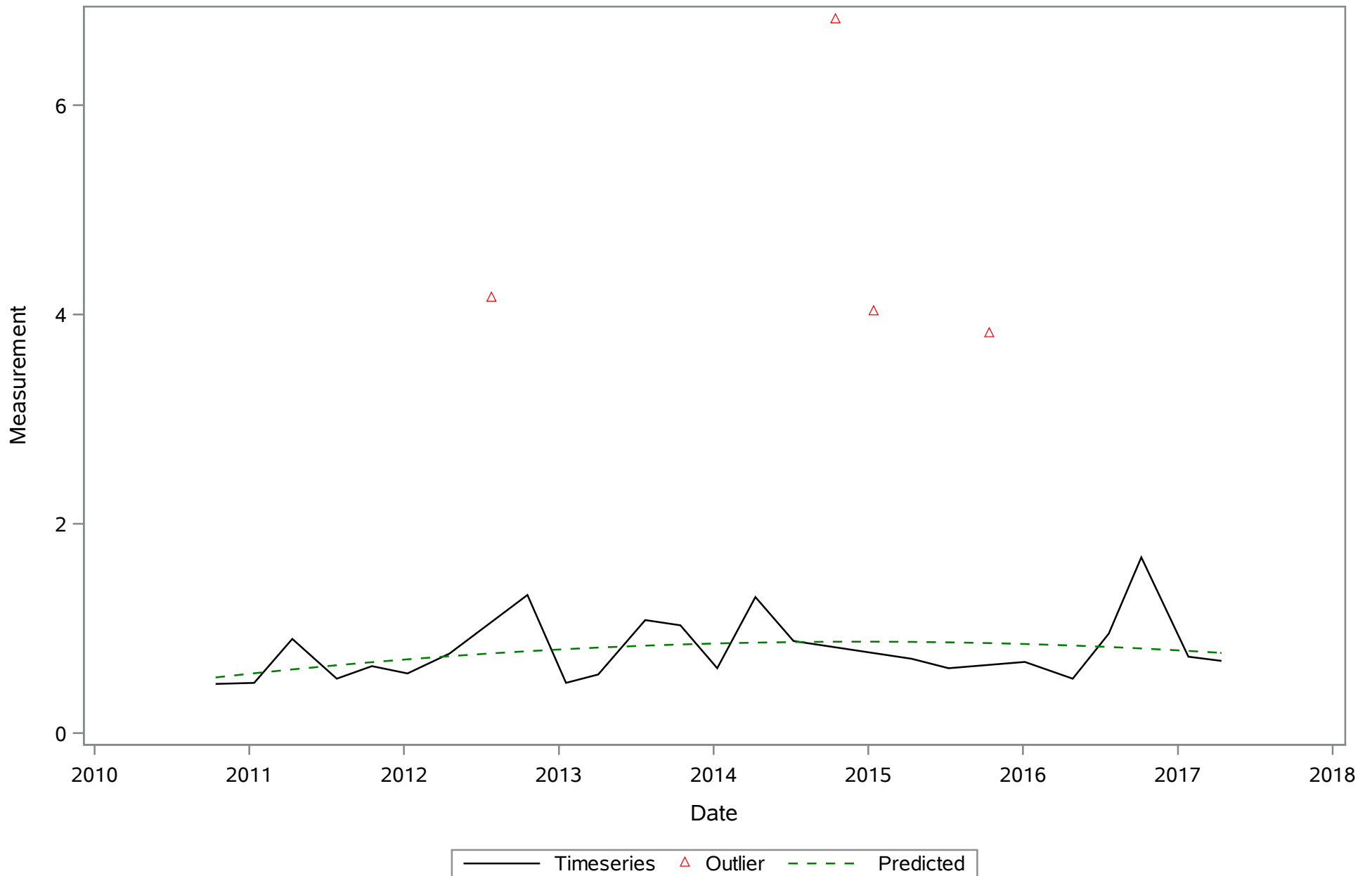
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Ammonia (N) (Total) mg/L



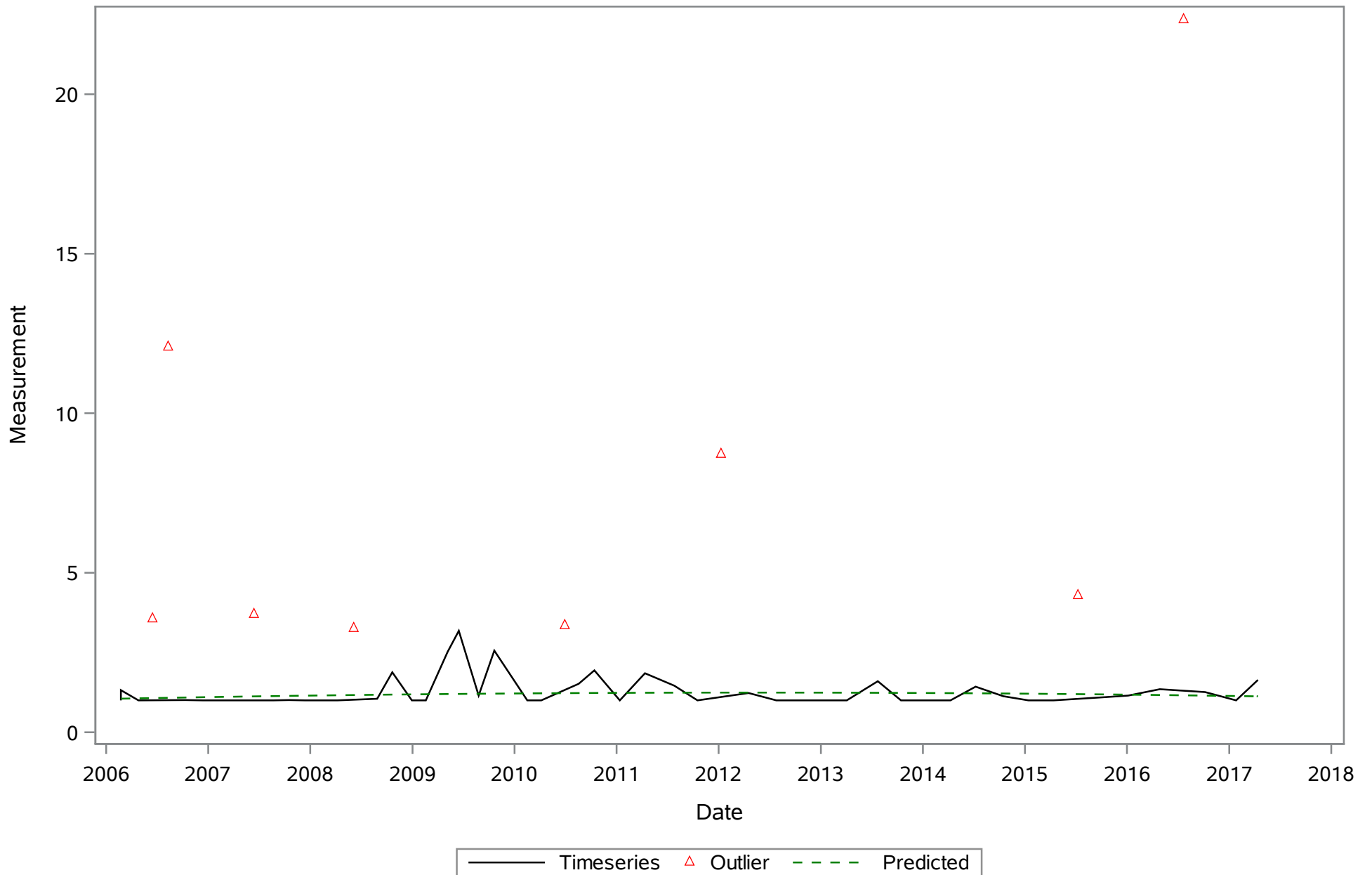
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Calcium (Dissolved) mg/L



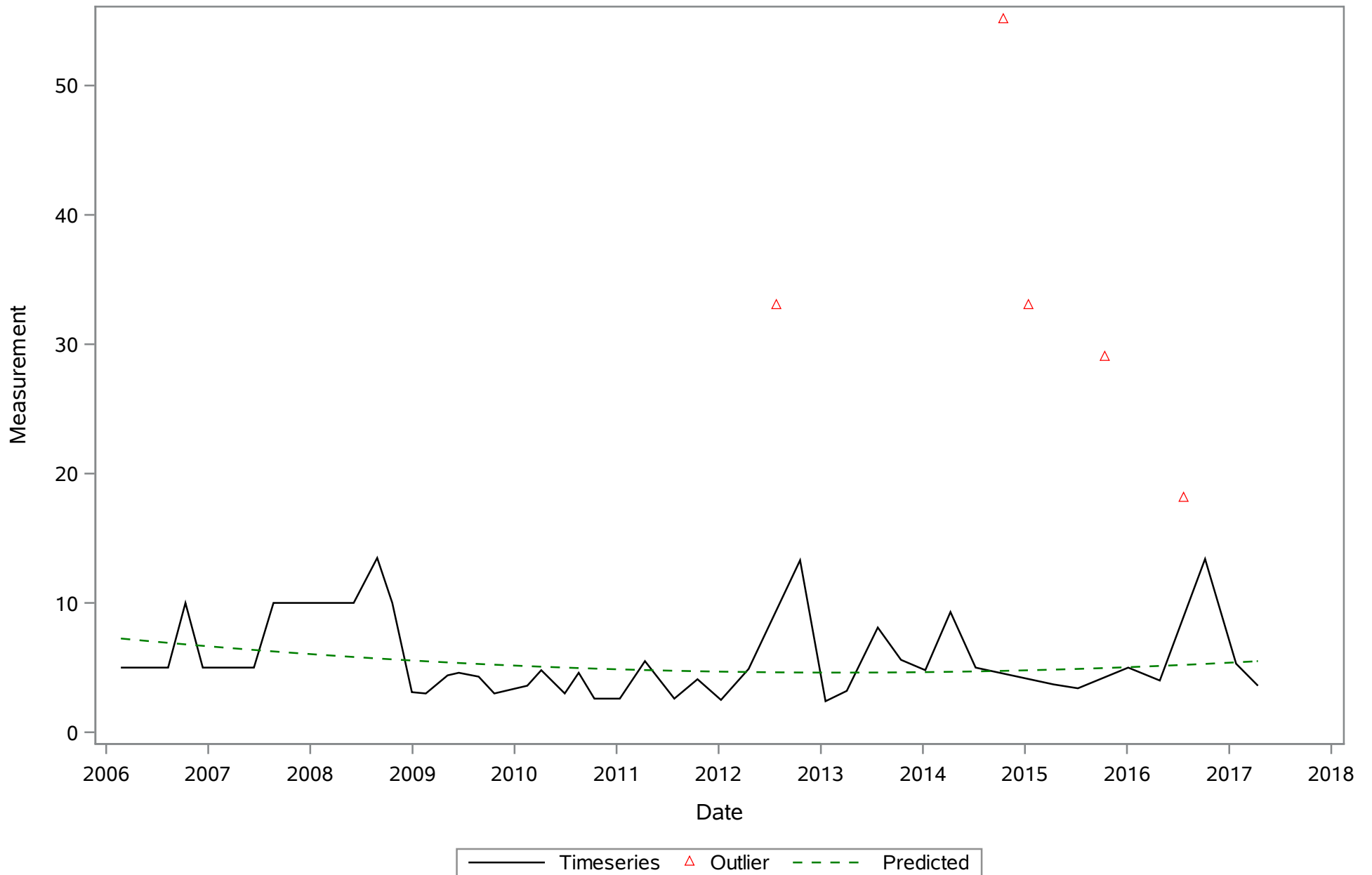
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Carbon- Total Organic (Total) mg/L



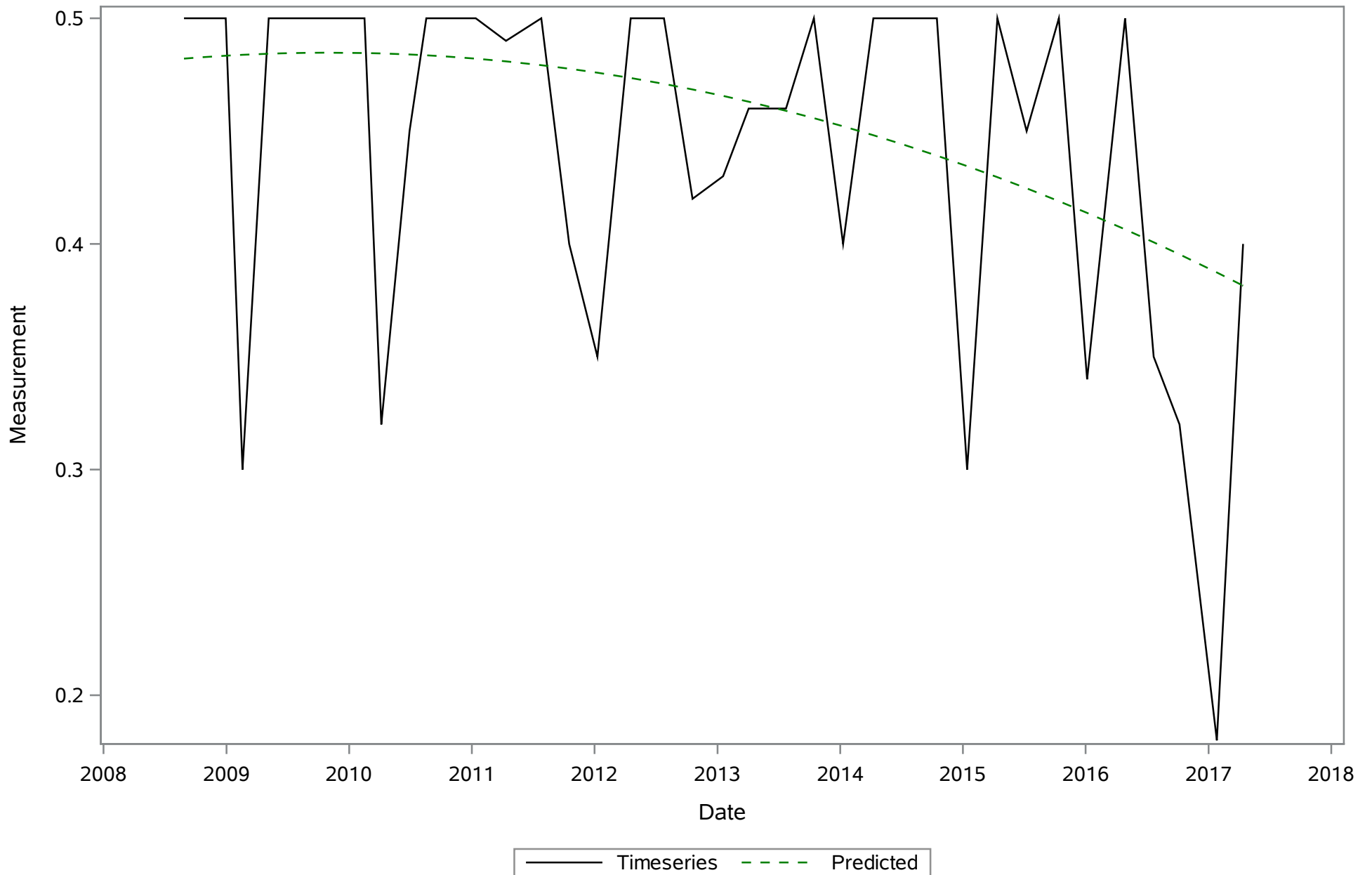
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Chlorophyll a (Total) ug/L



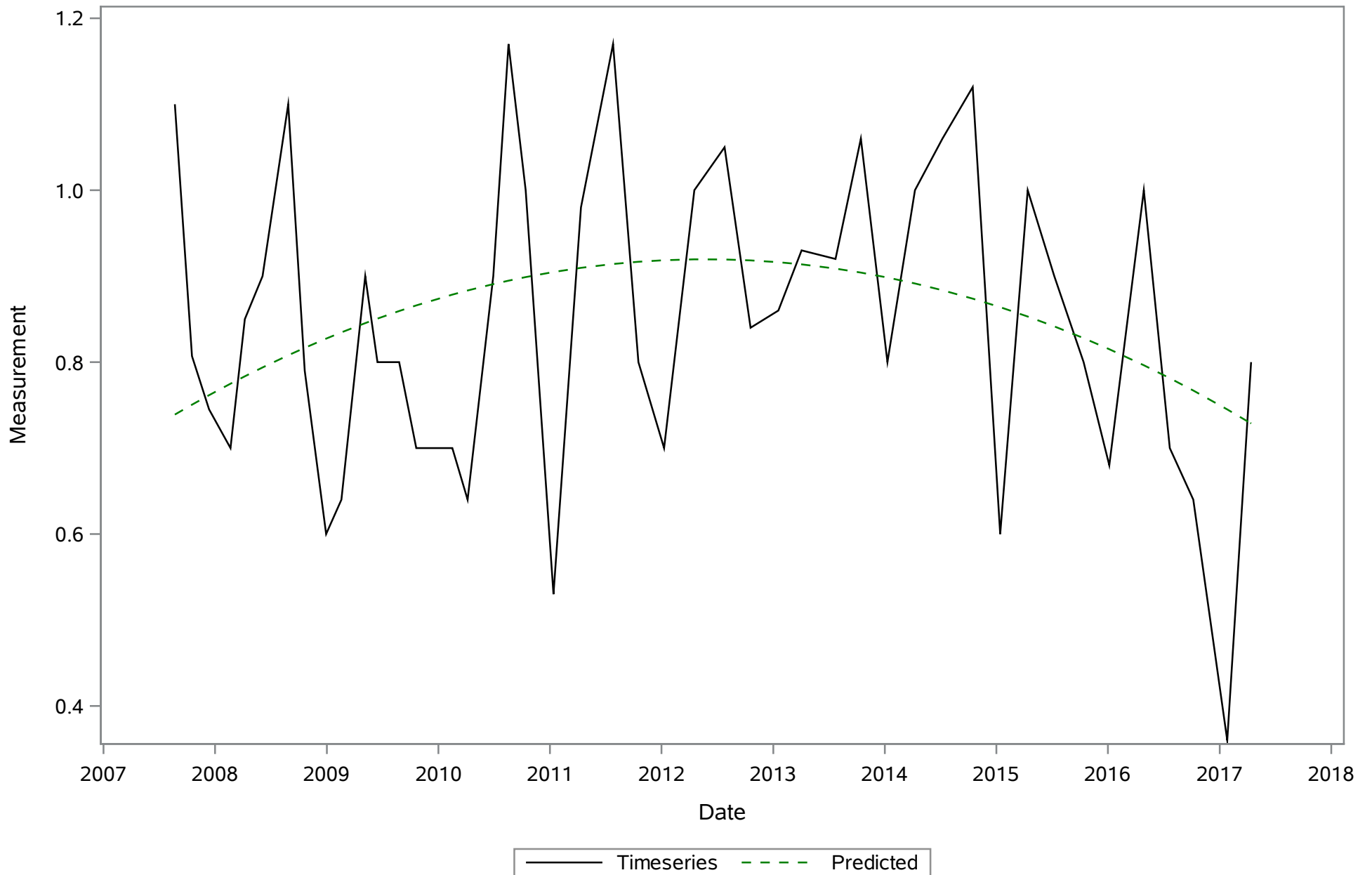
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Color (Dissolved) PCU



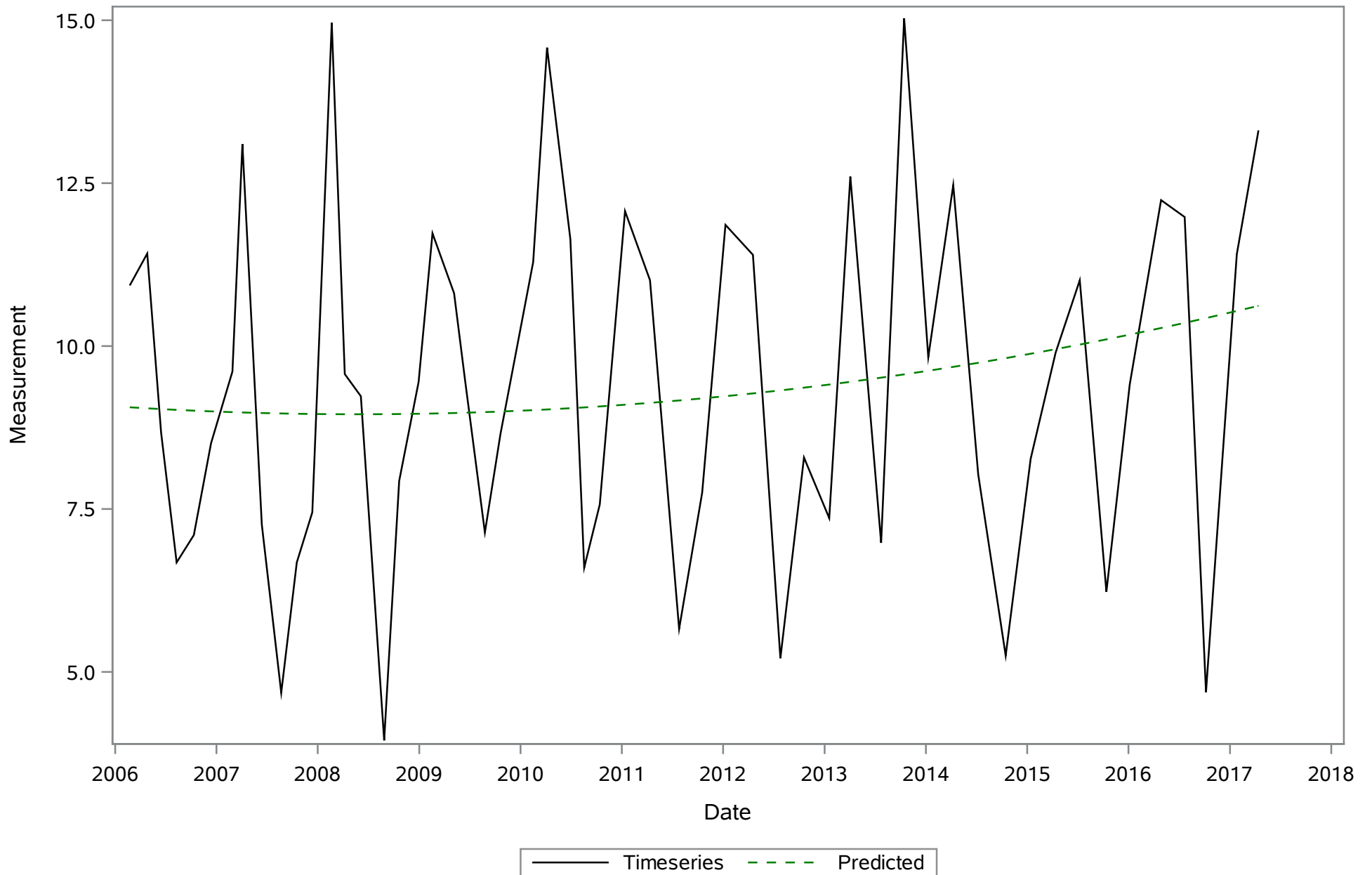
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth (Total) Meters



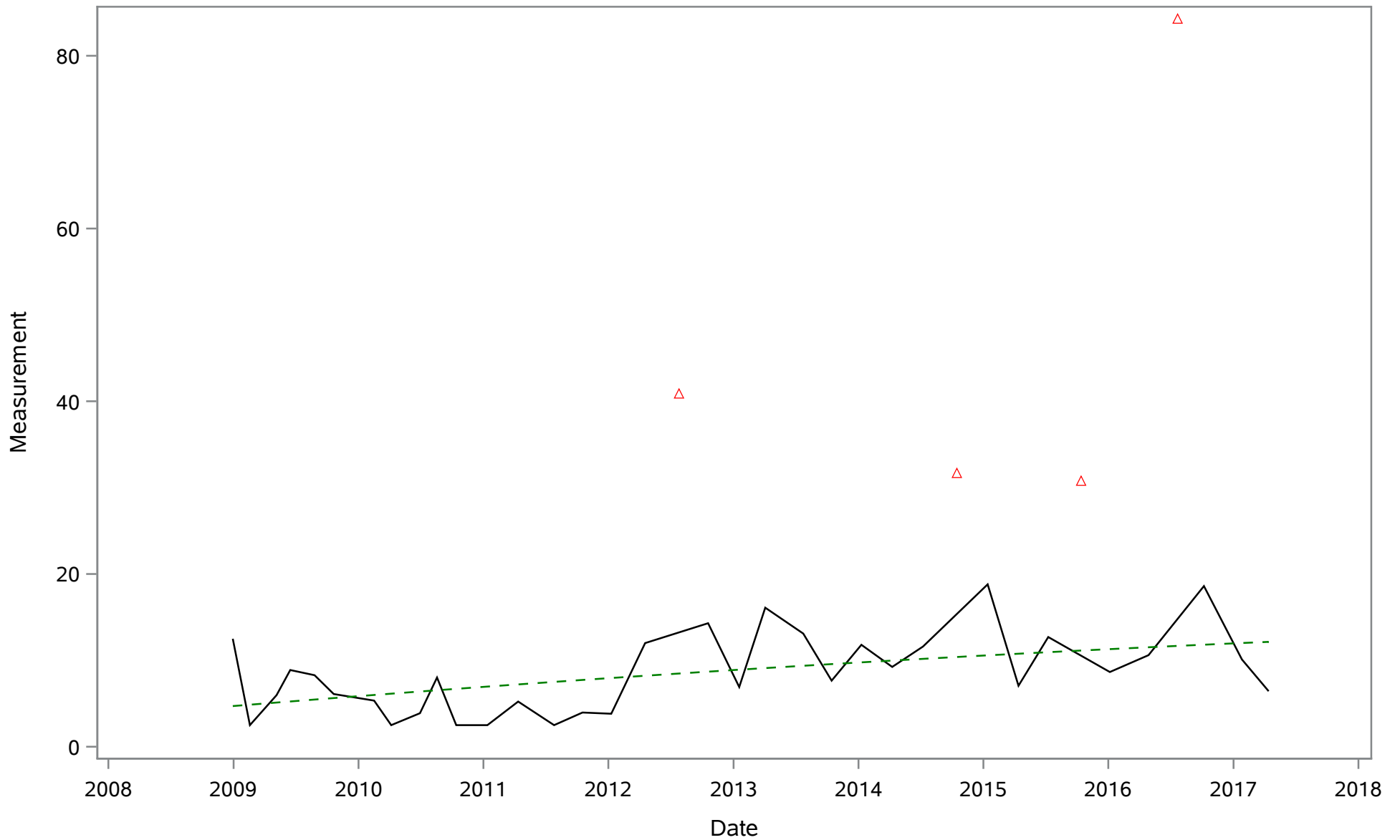
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth, bottom (Total) Meters



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Dissolved Oxygen (Total) mg/L

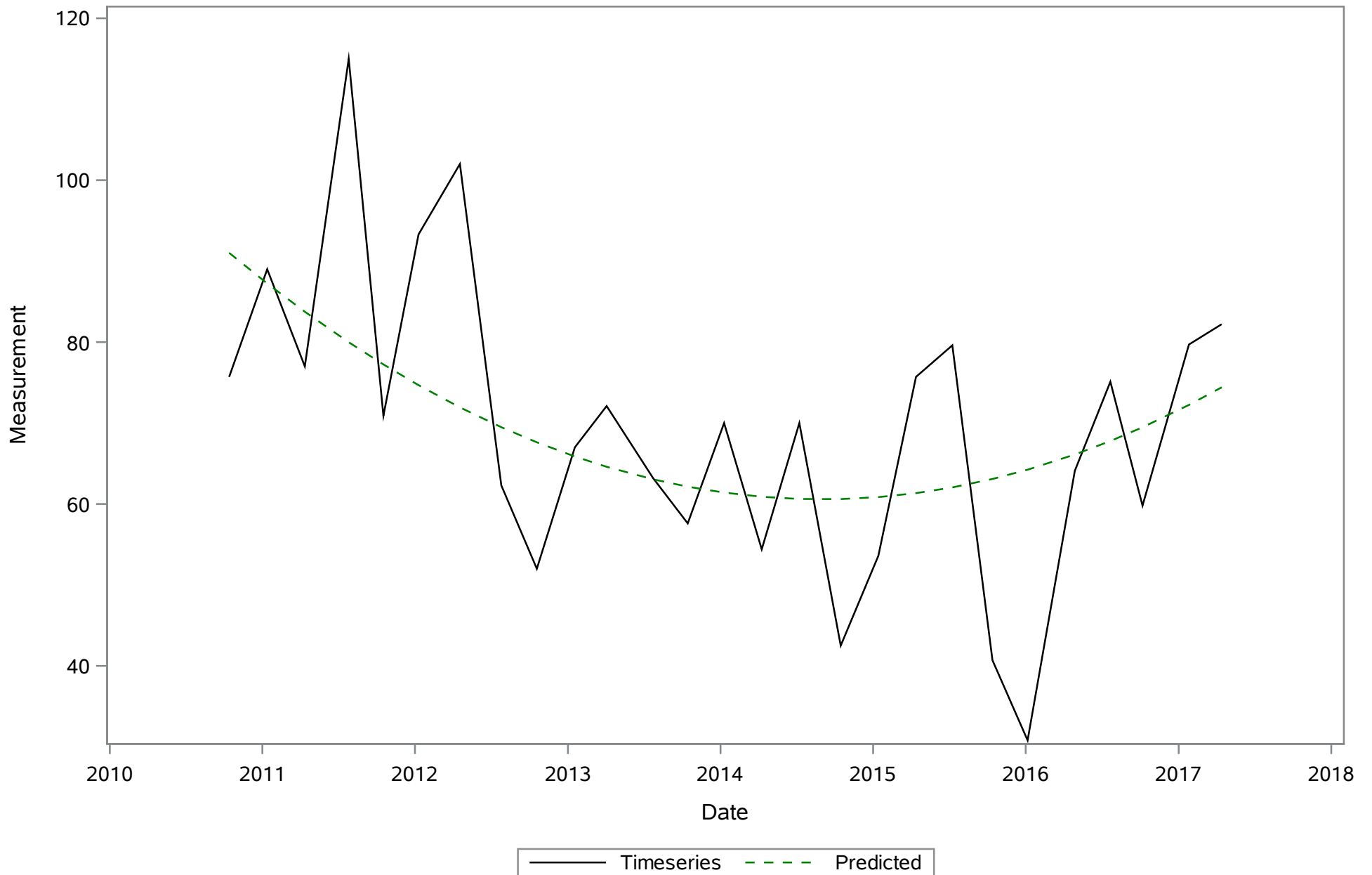


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Iron (Dissolved) ug/L

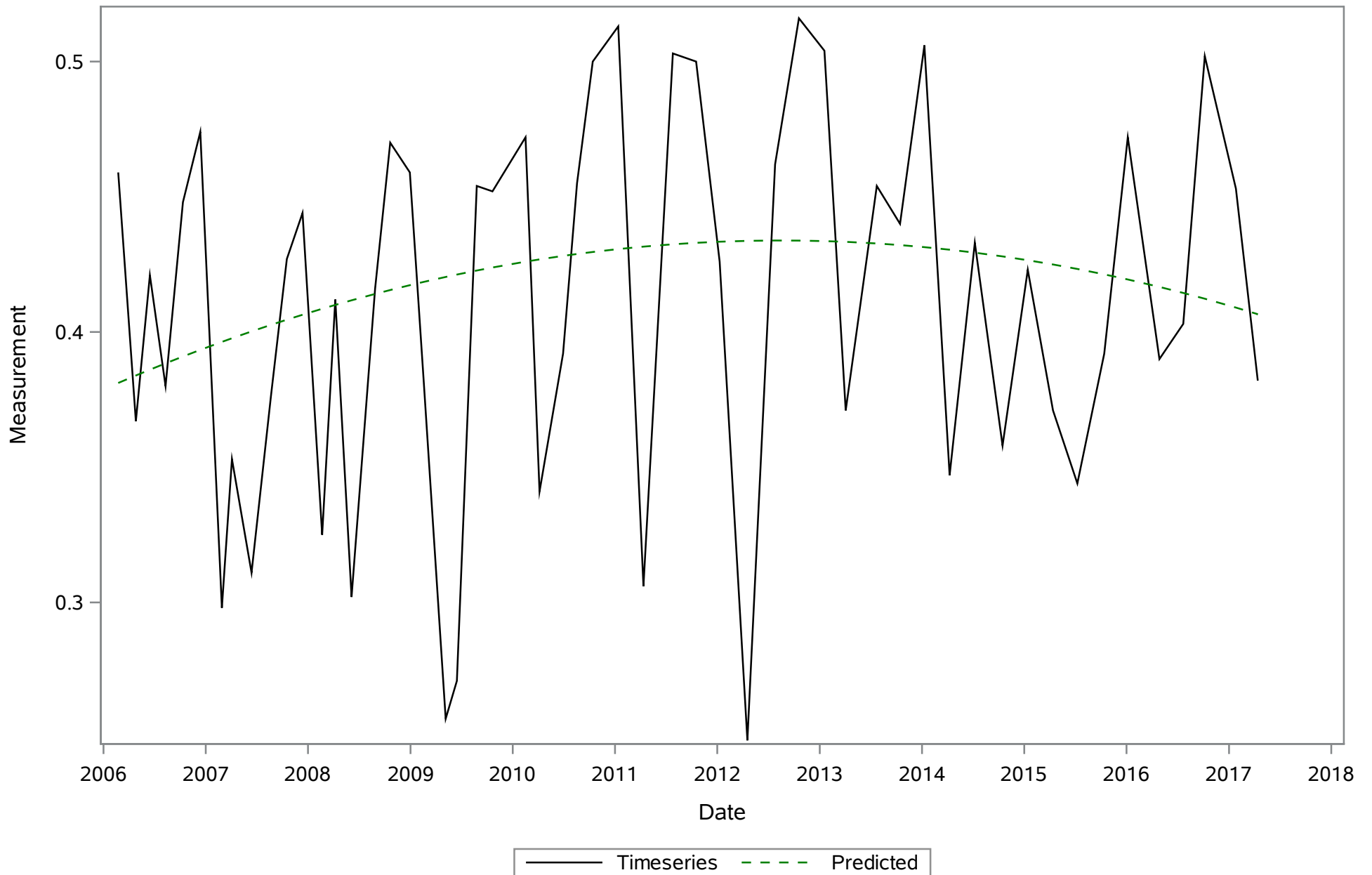


— Timeseries △ Outlier - - - Predicted

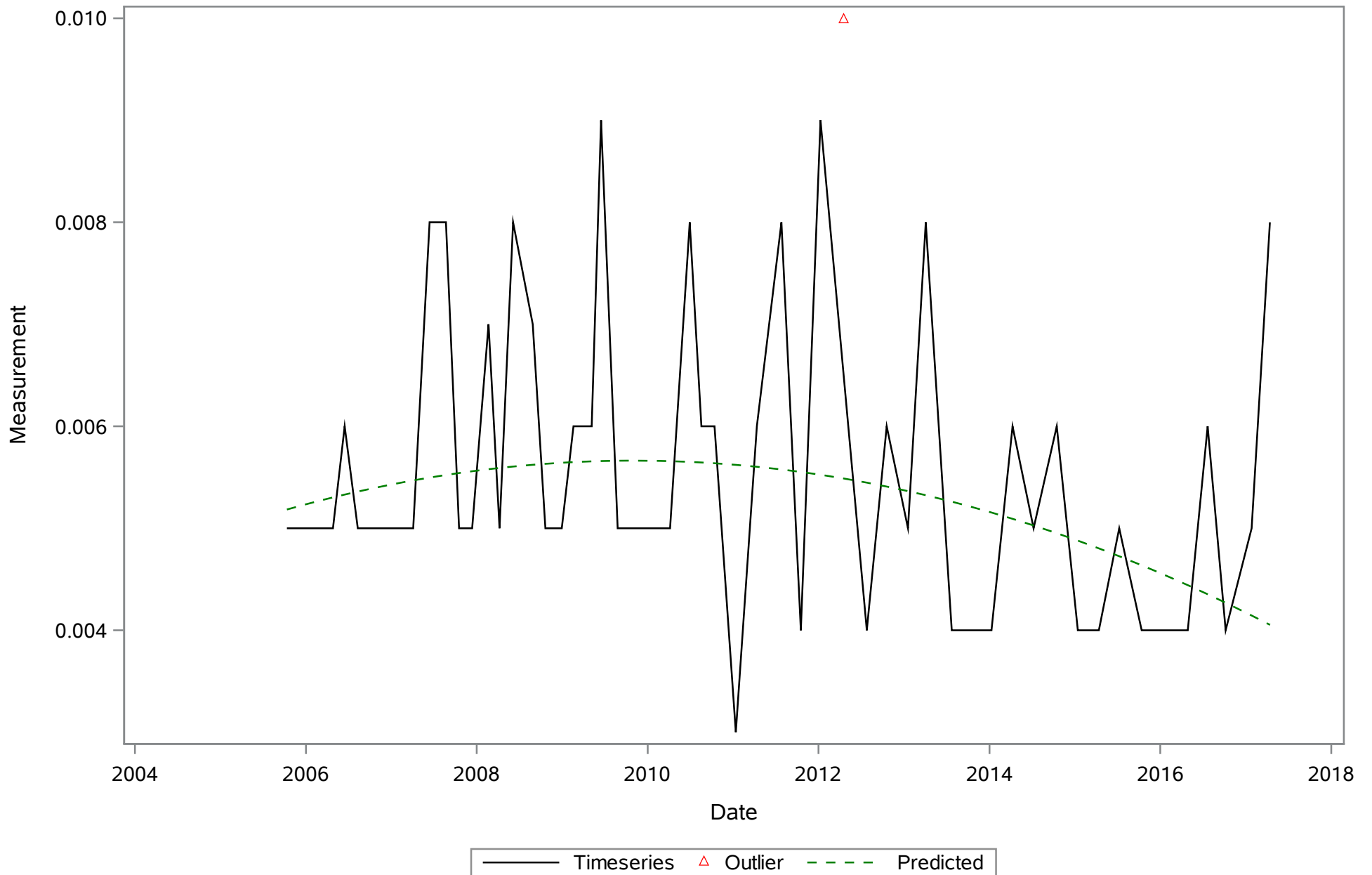
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Magnesium (Dissolved) mg/L



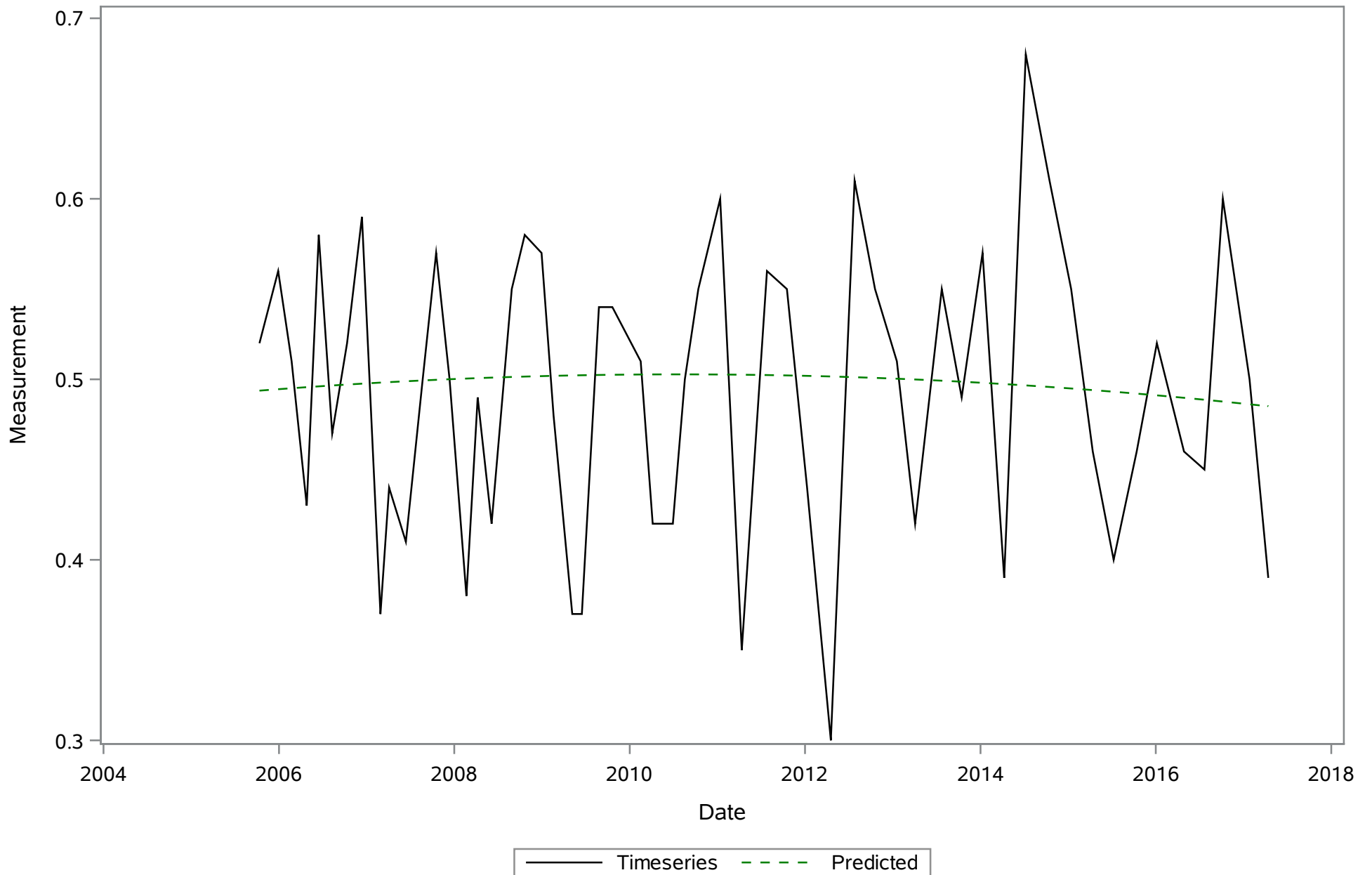
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrate-Nitrite (N) (Total) mg/L



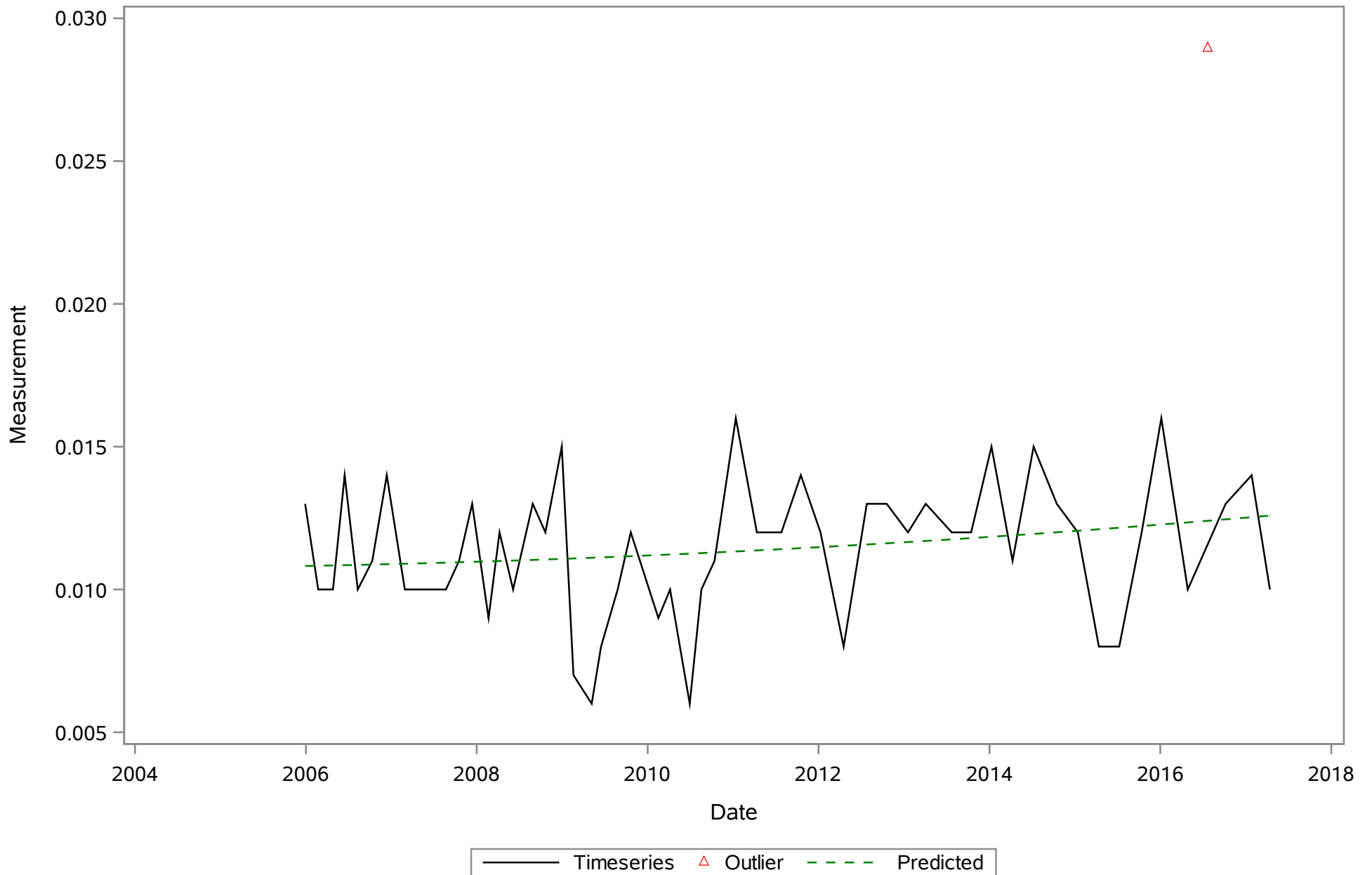
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrite (N) (Total) mg/L



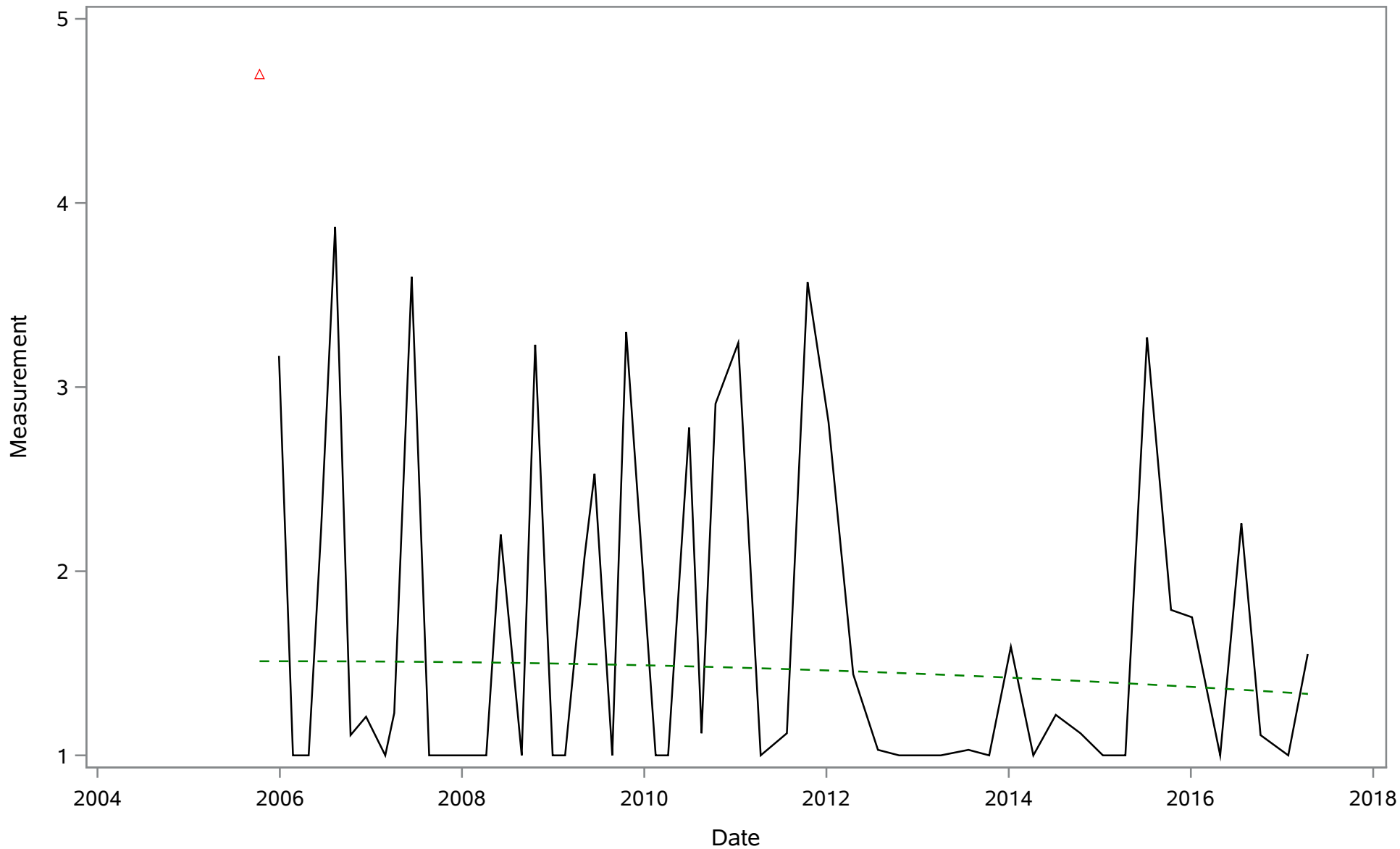
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrogen- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Orthophosphate (P) (Dissolved) mg/L

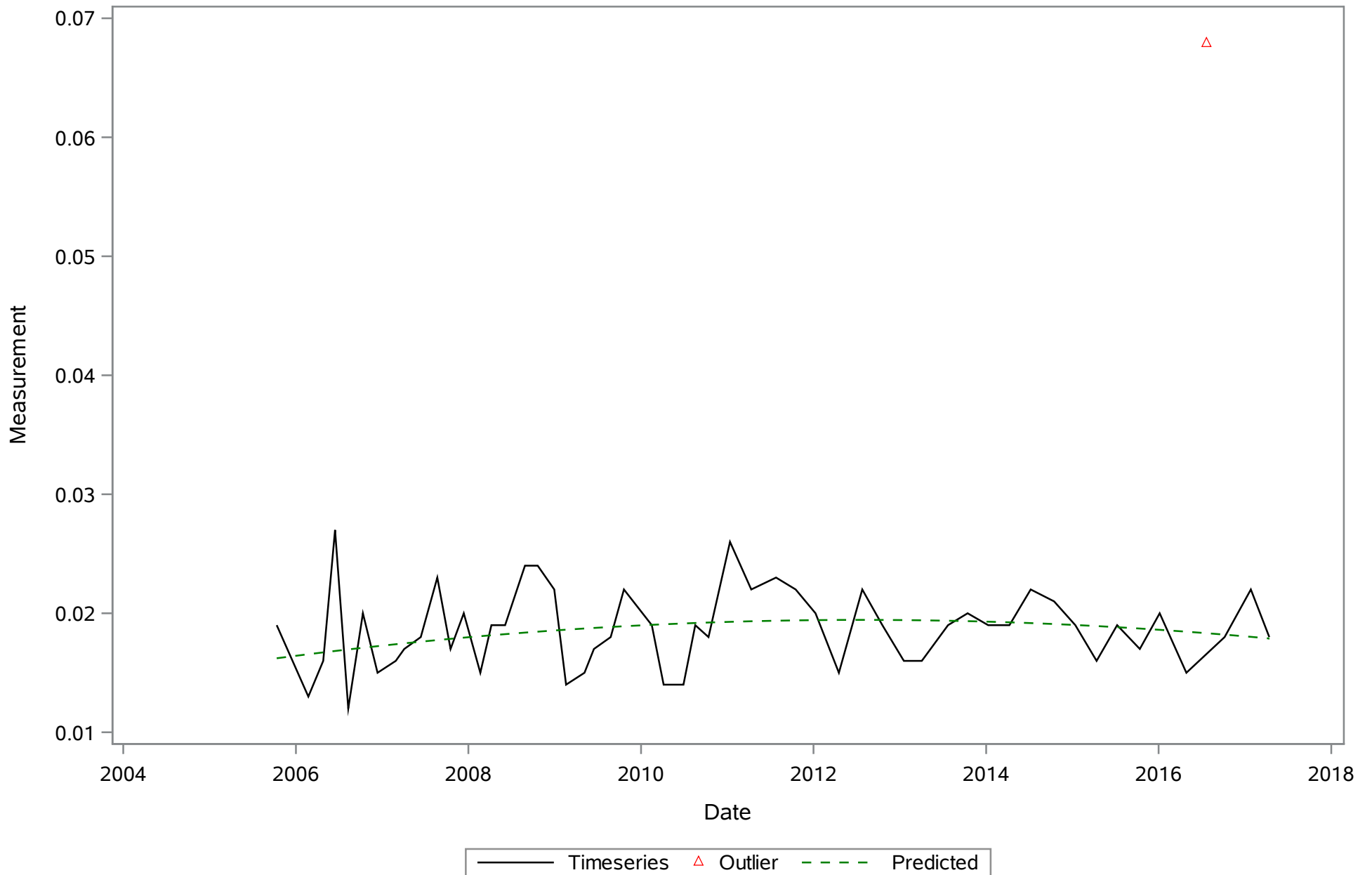


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phaeophytin (Total) ug/L

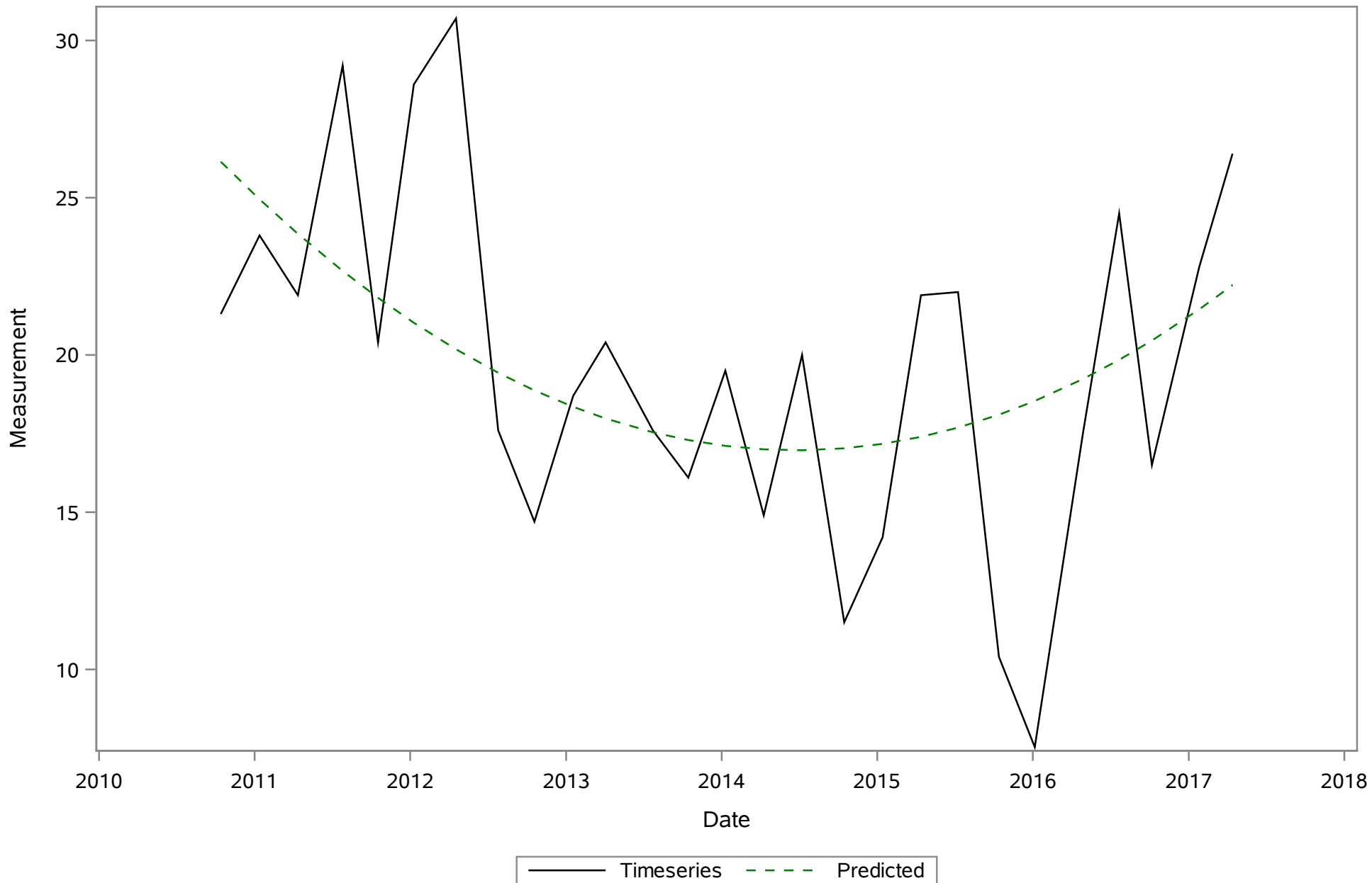


— Timeseries △ Outlier - - - Predicted

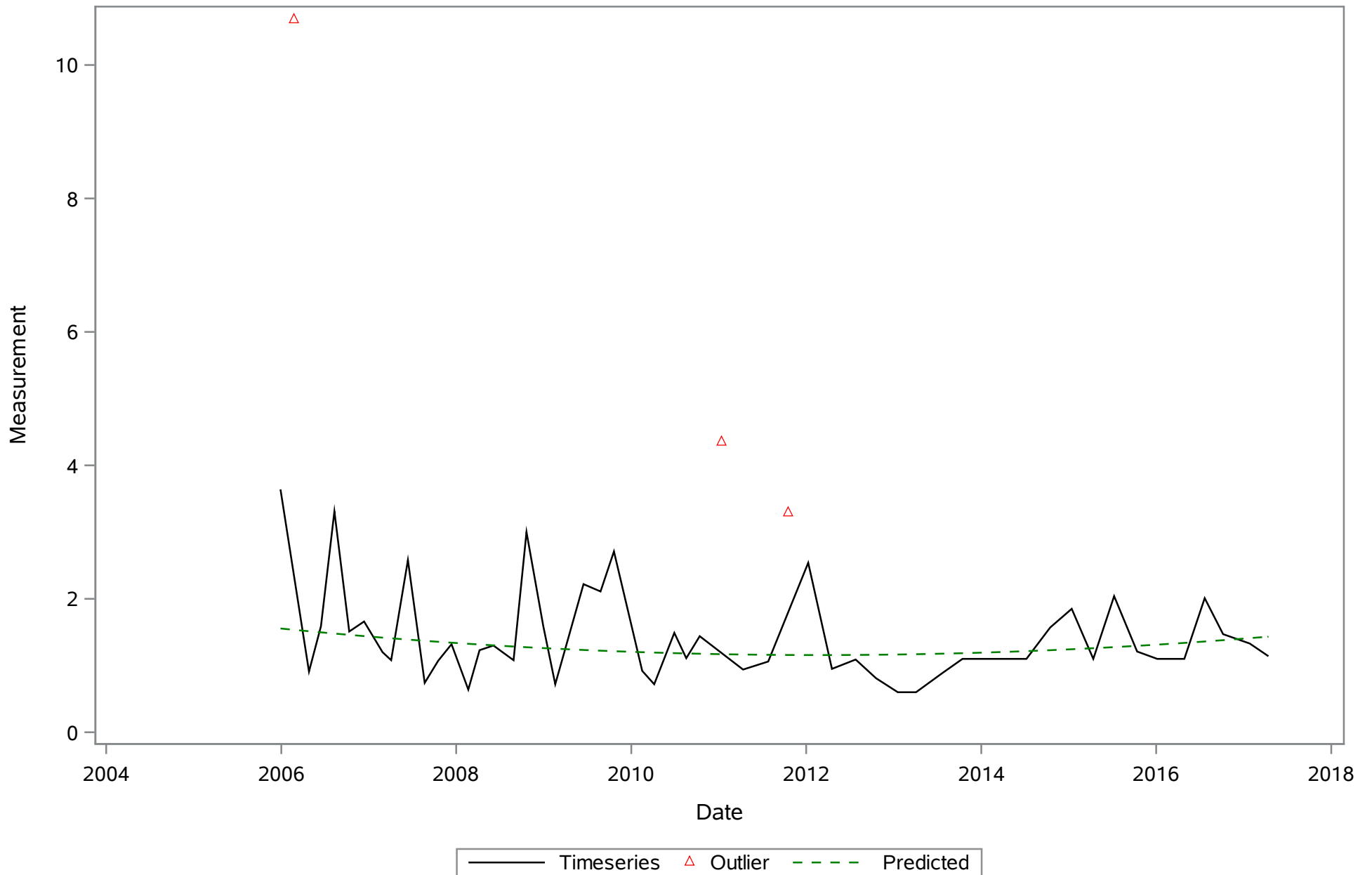
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phosphorus- Total (Total) mg/L



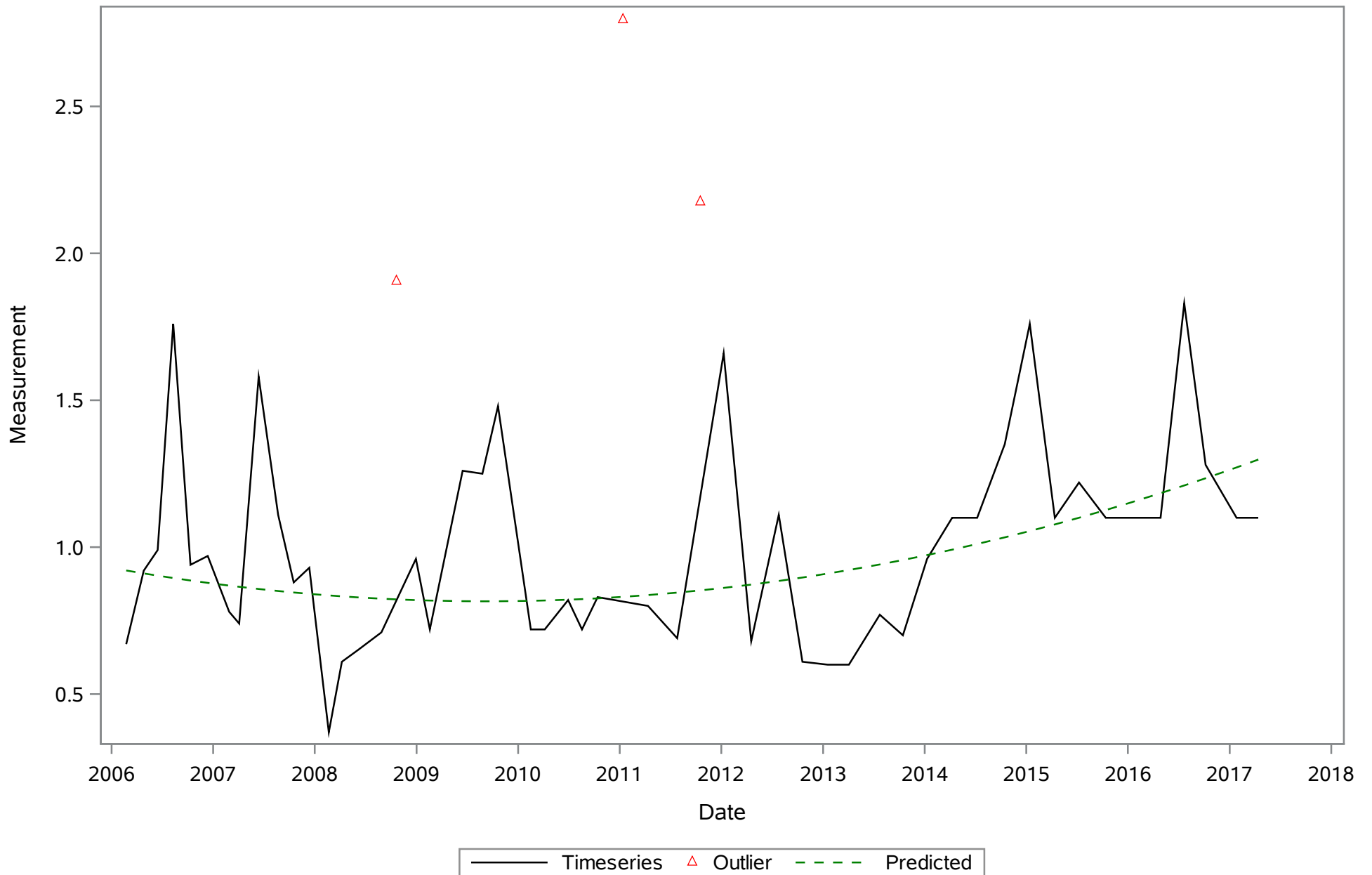
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Potassium (Dissolved) mg/L



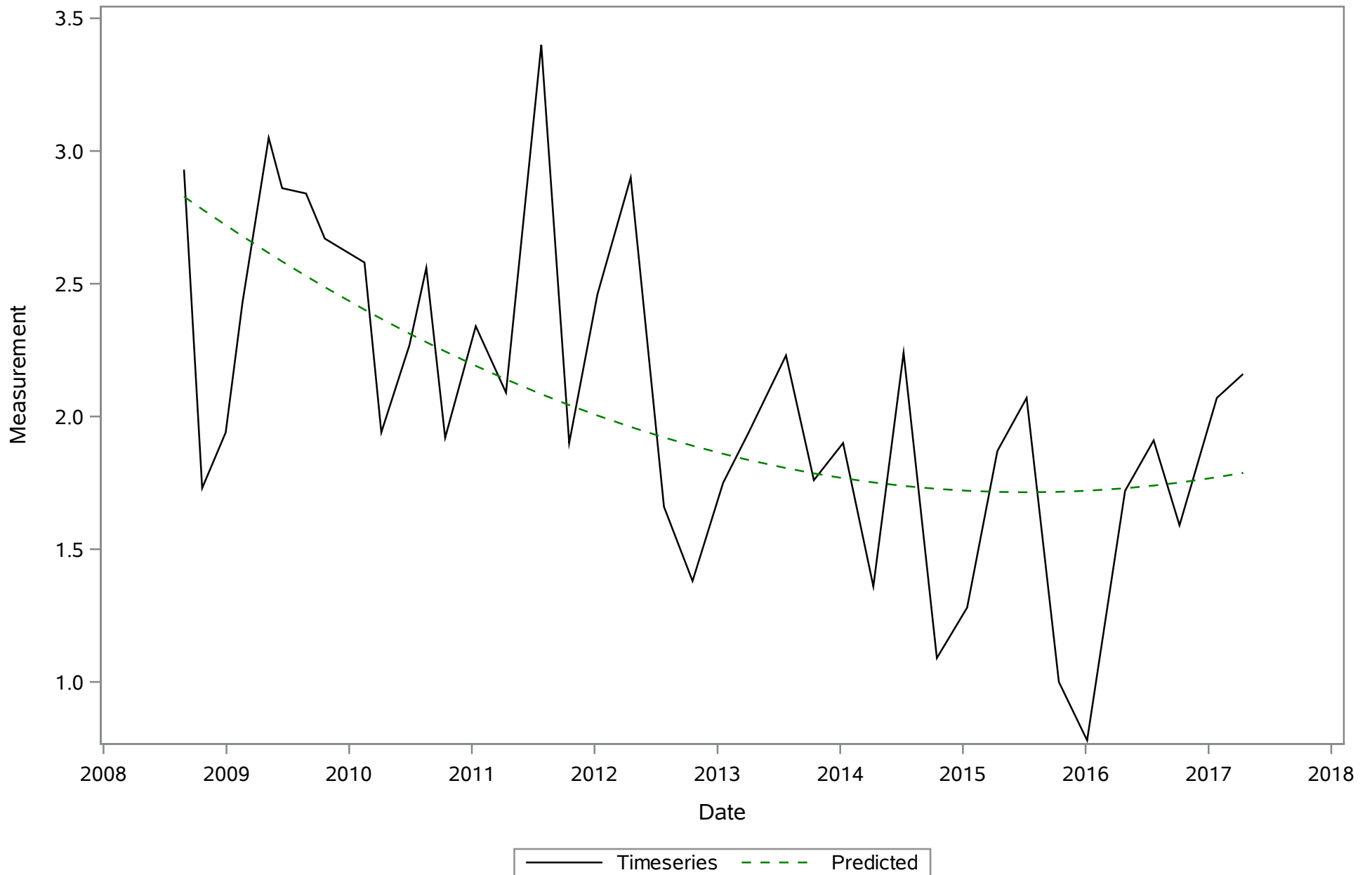
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Nonfilterable (TSS) (Total) mg/L



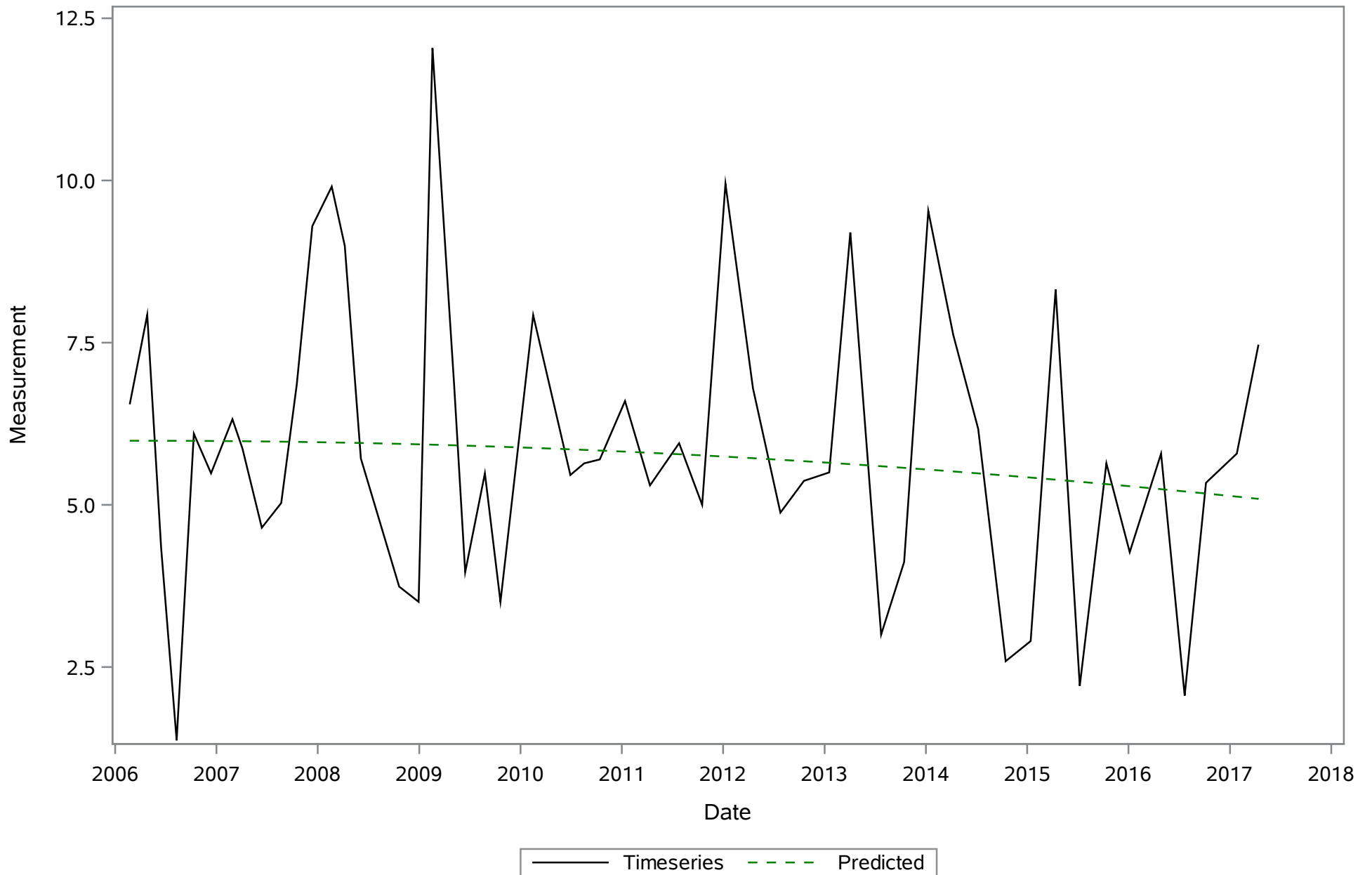
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Volatile (Total) mg/L



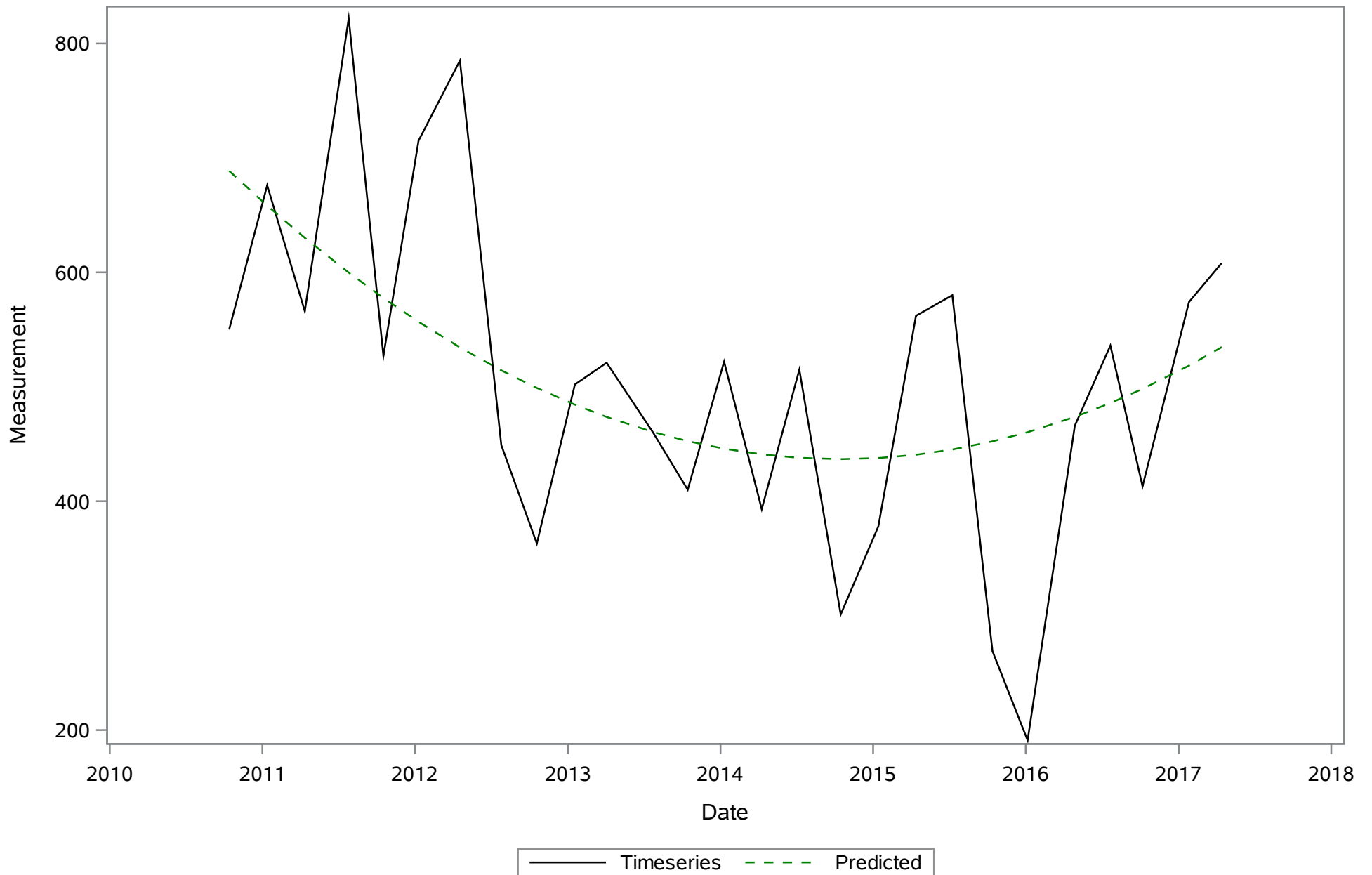
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Salinity (Total) ppth



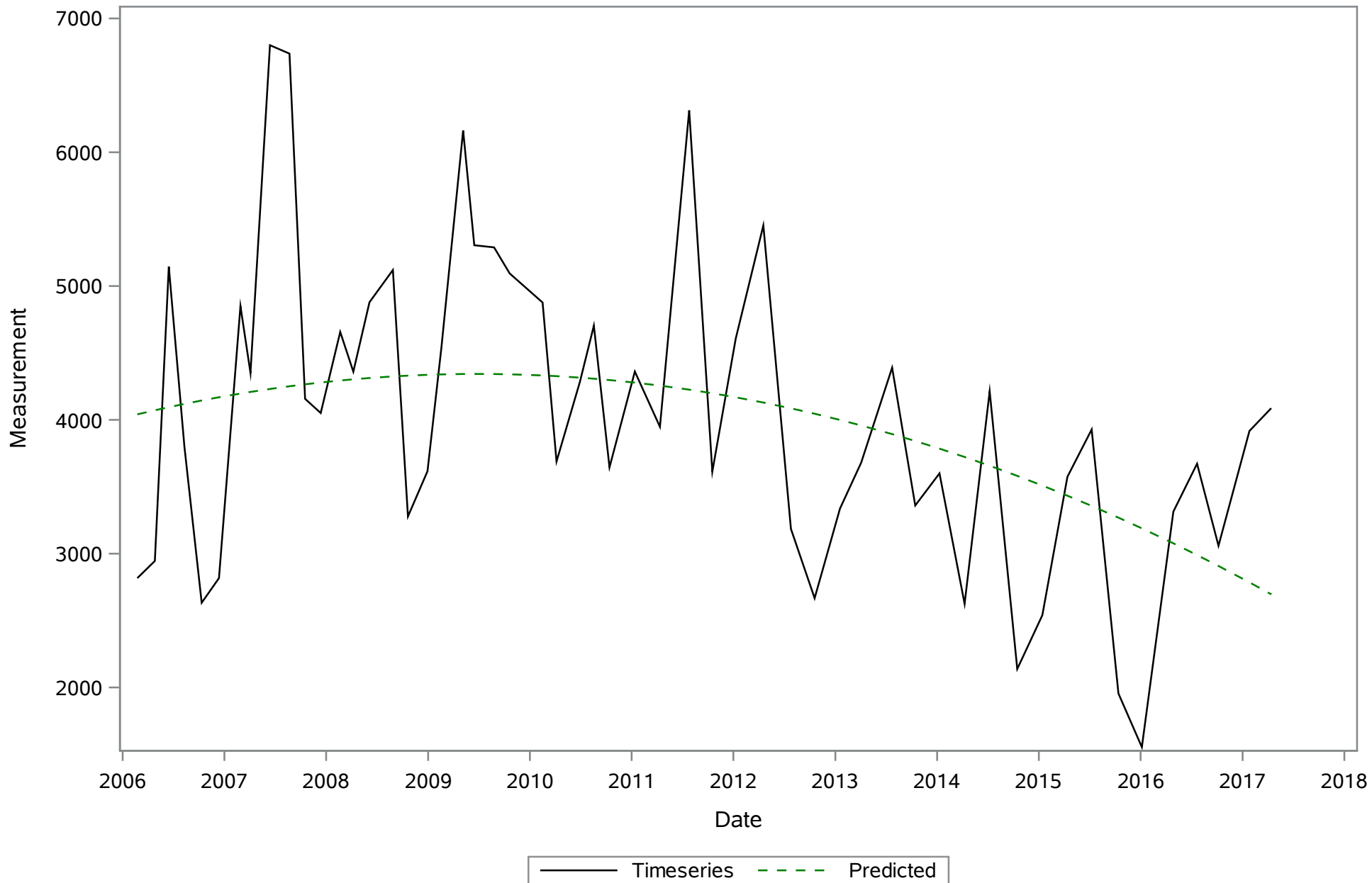
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Secchi-horizontal (Total) Meters



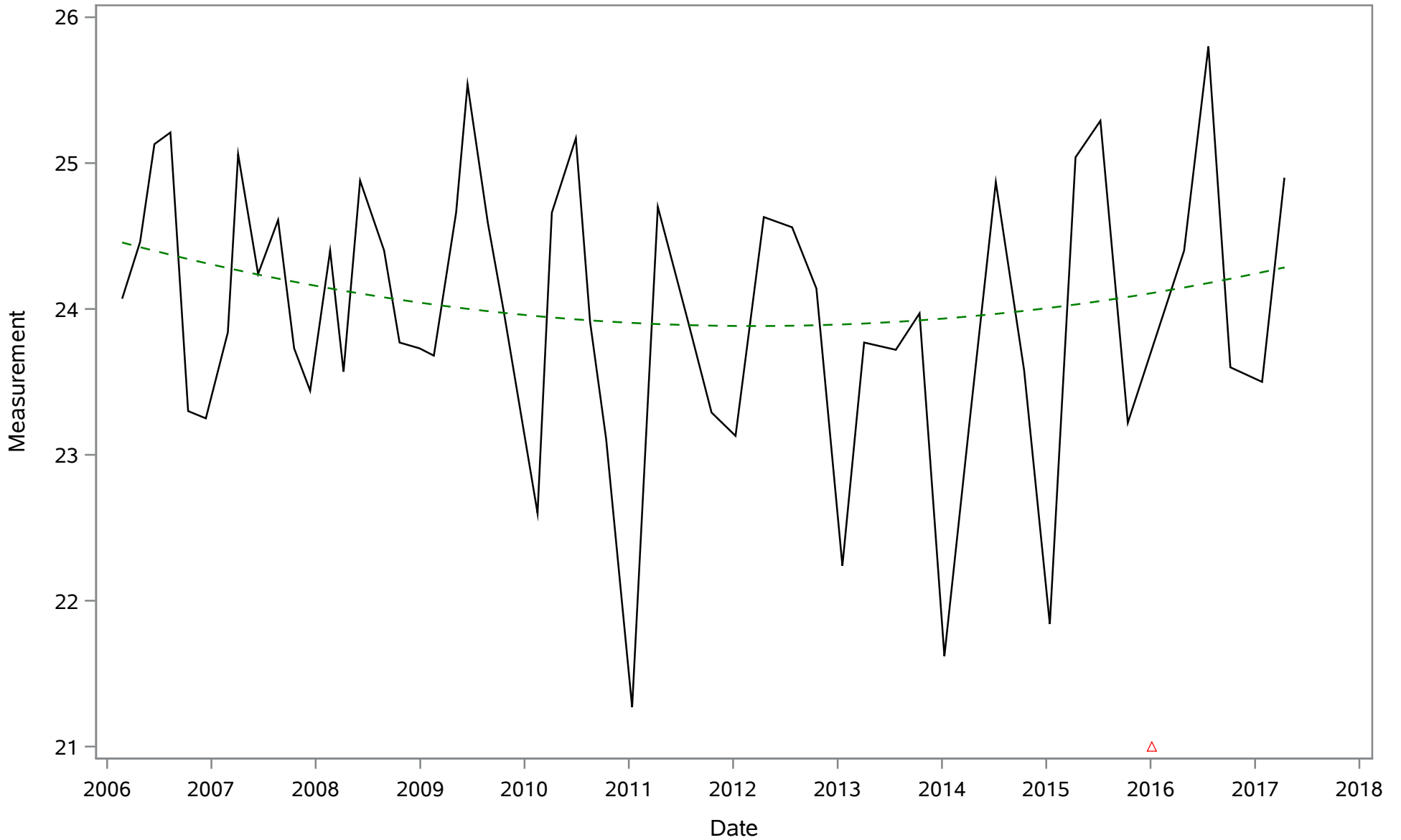
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Sodium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Specific Conductance (Total) uS/cm

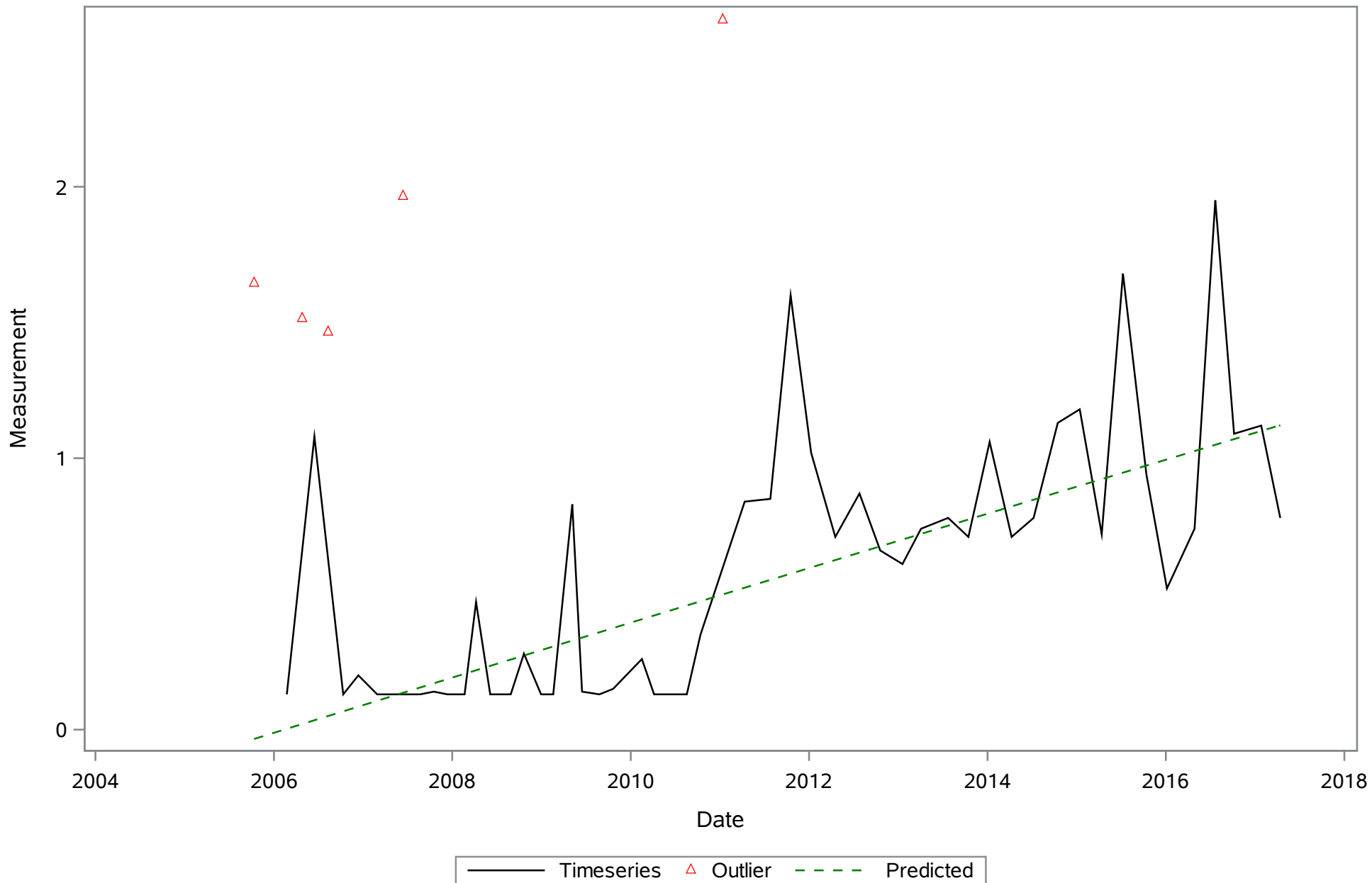


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Temperature (Total) Deg. C

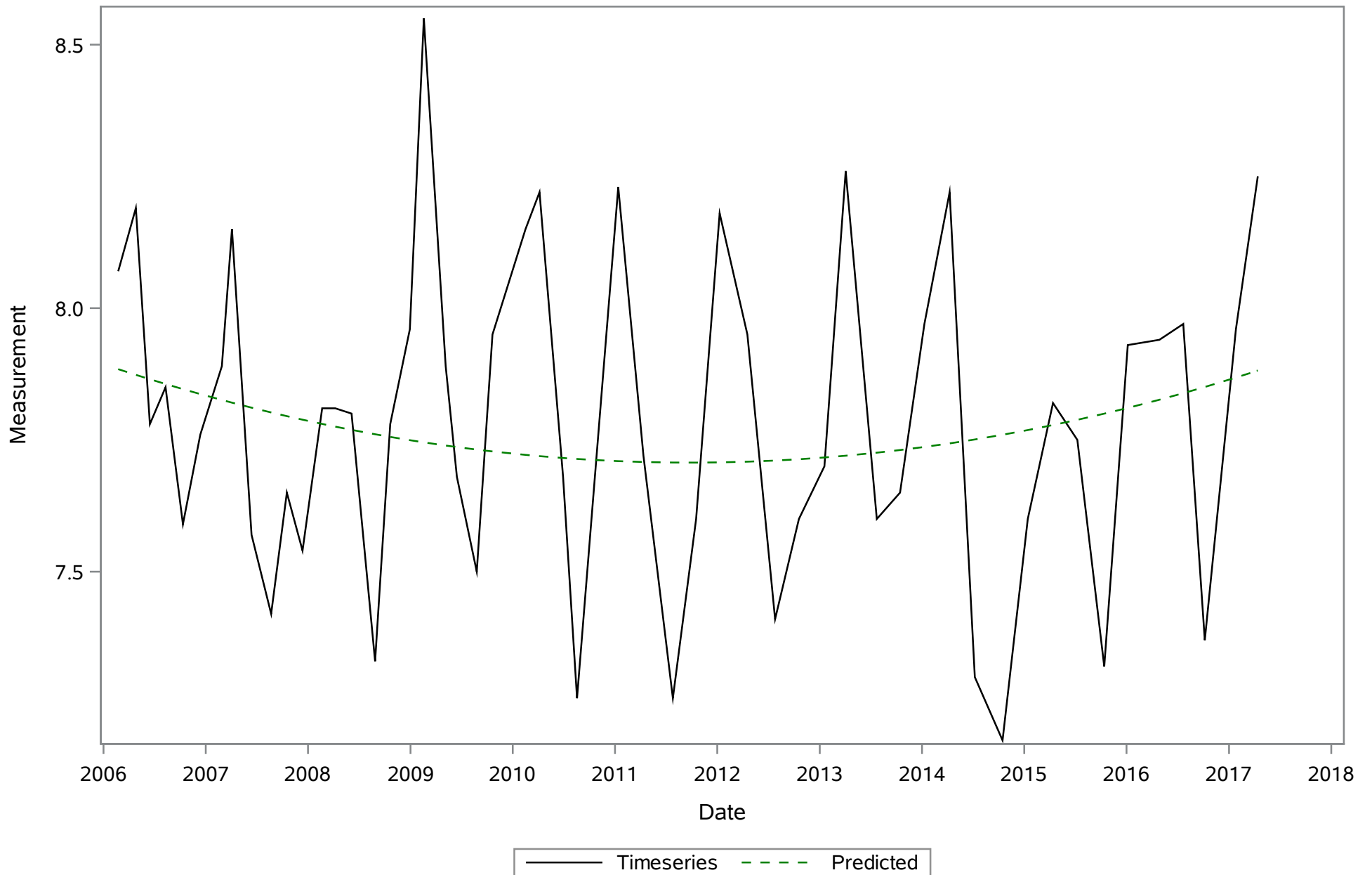


— Timeseries △ Outlier - - - Predicted

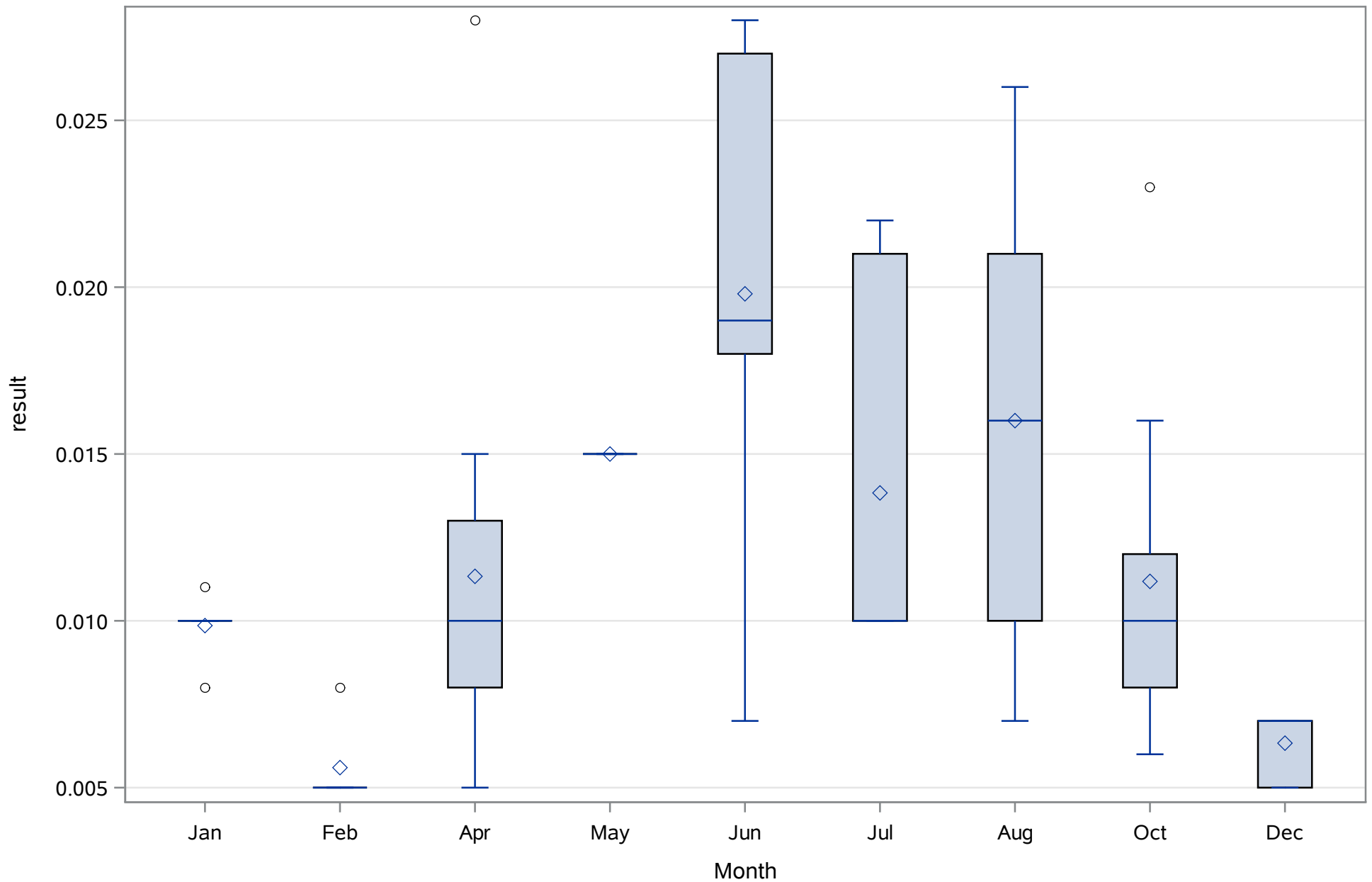
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Turbidity (Total) NTU



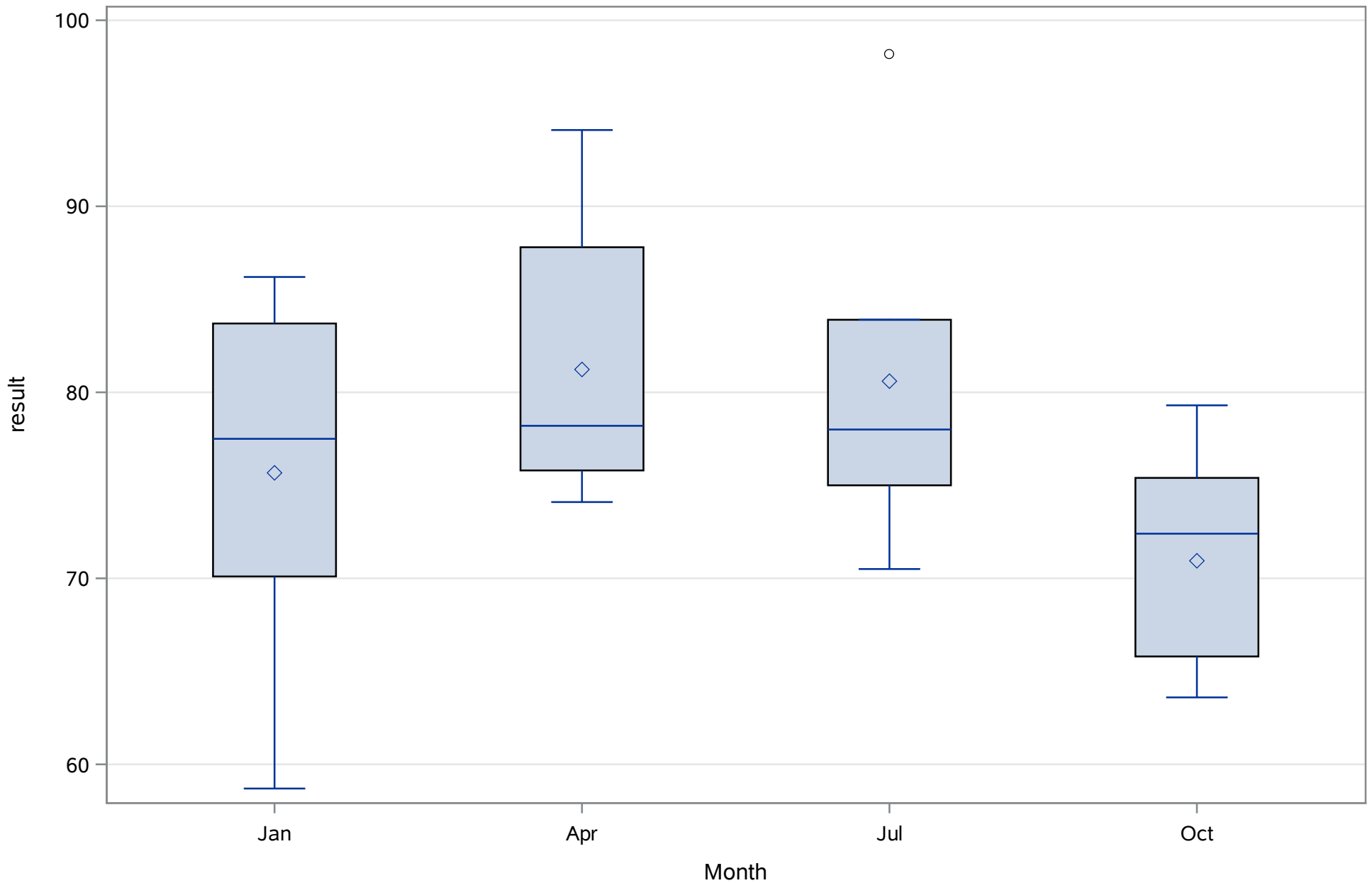
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
pH (Total) SU



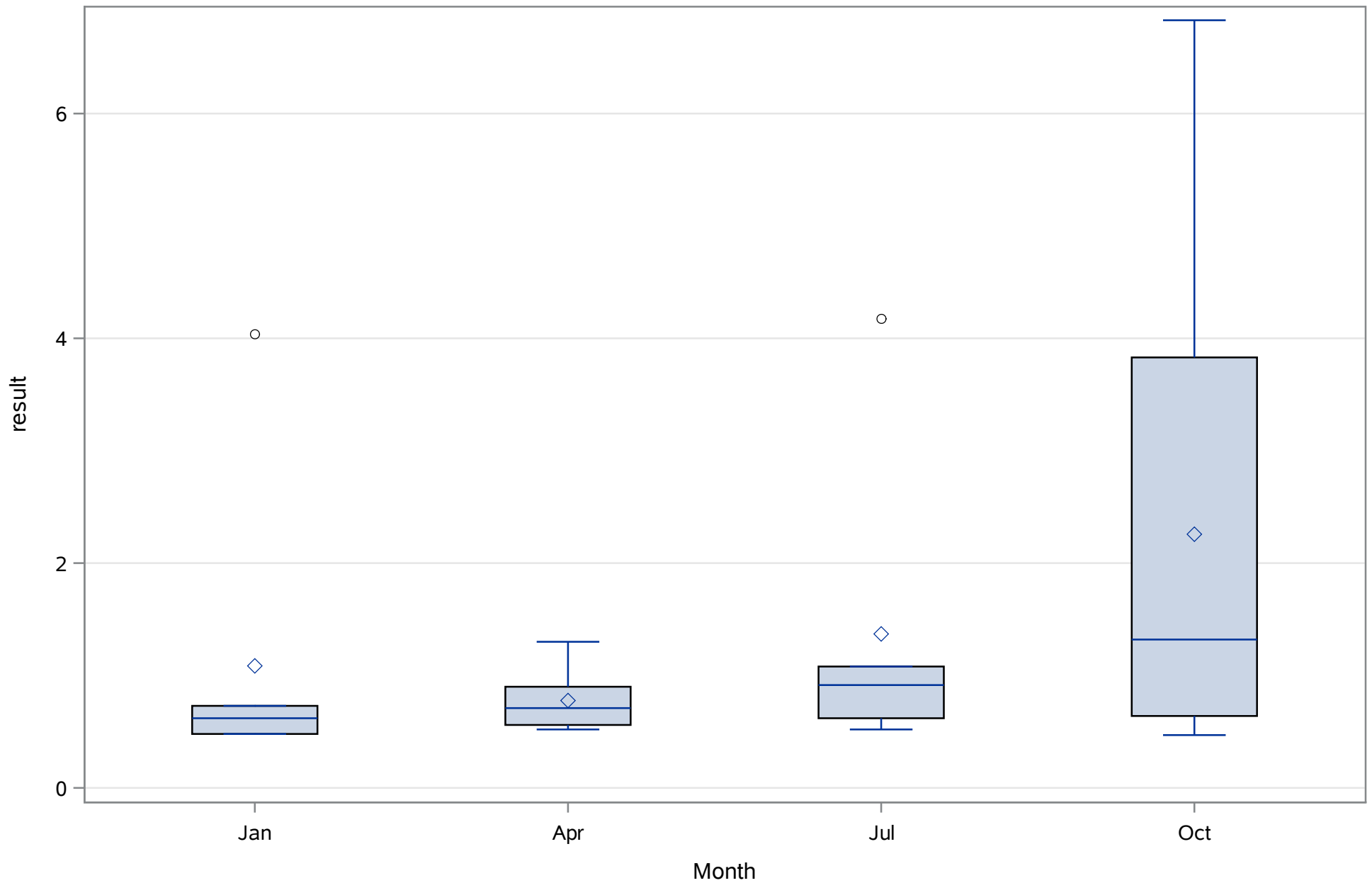
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Ammonia (N) (Total) mg/L



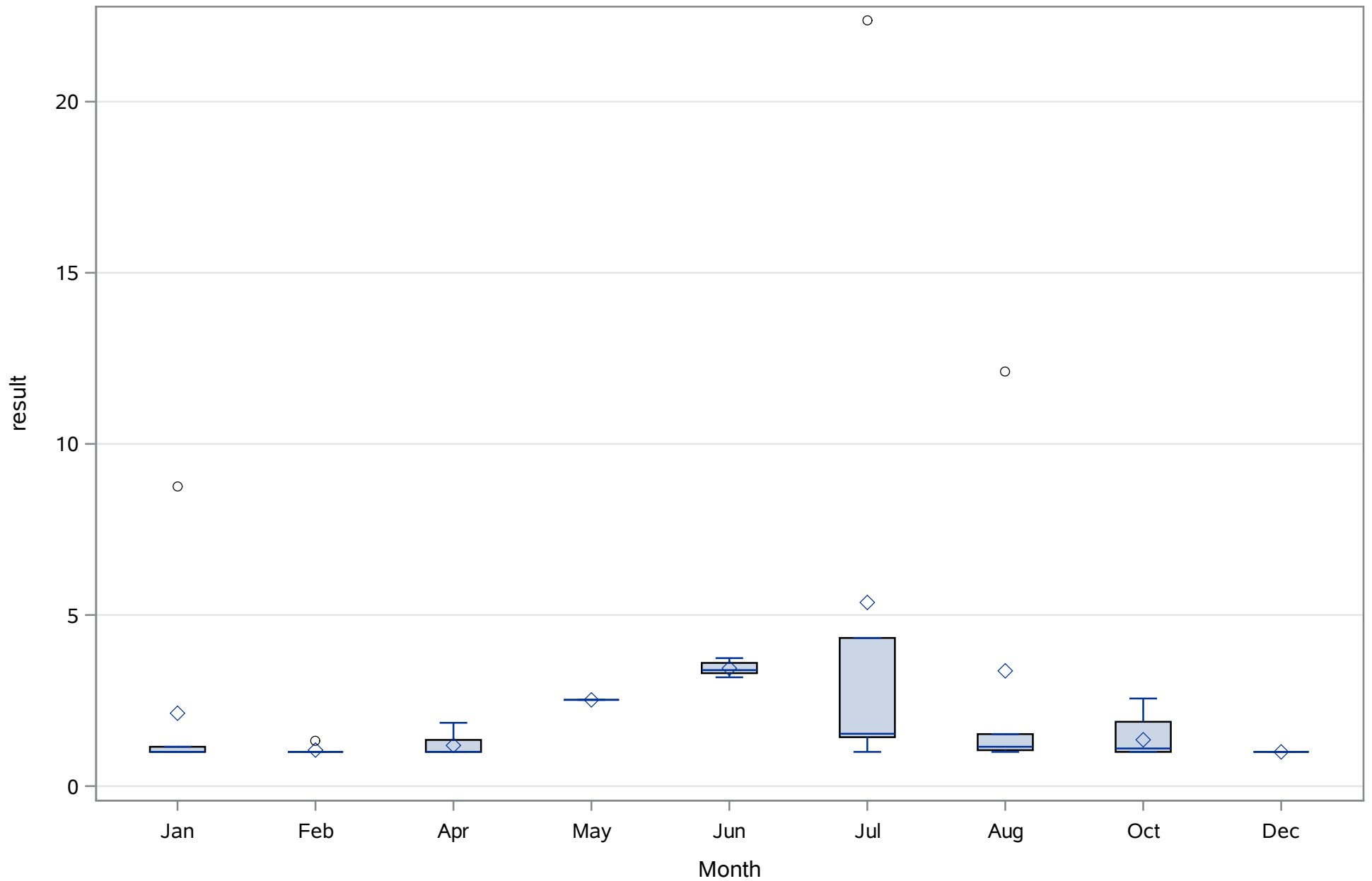
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Calcium (Dissolved) mg/L



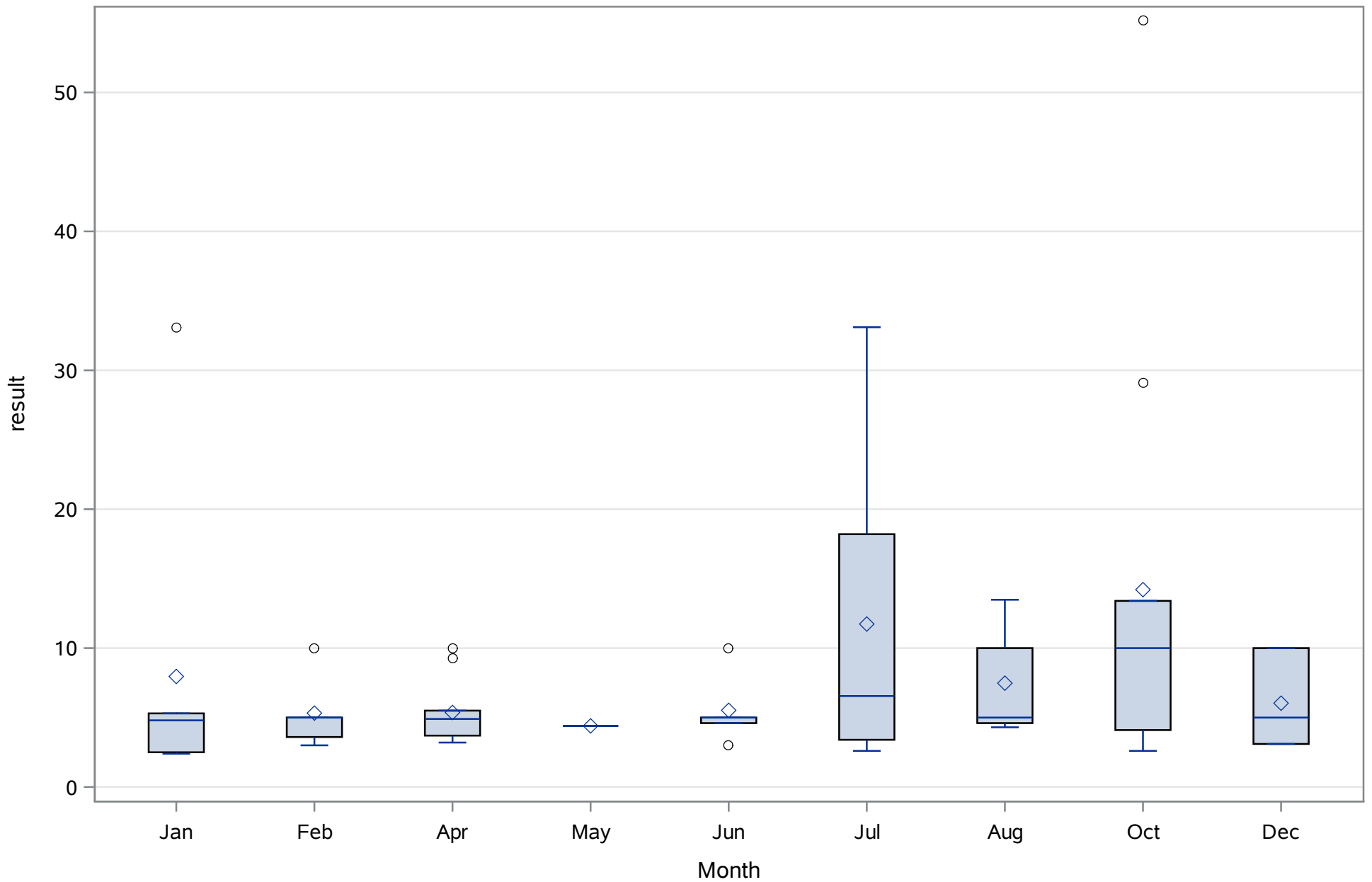
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Carbon- Total Organic (Total) mg/L



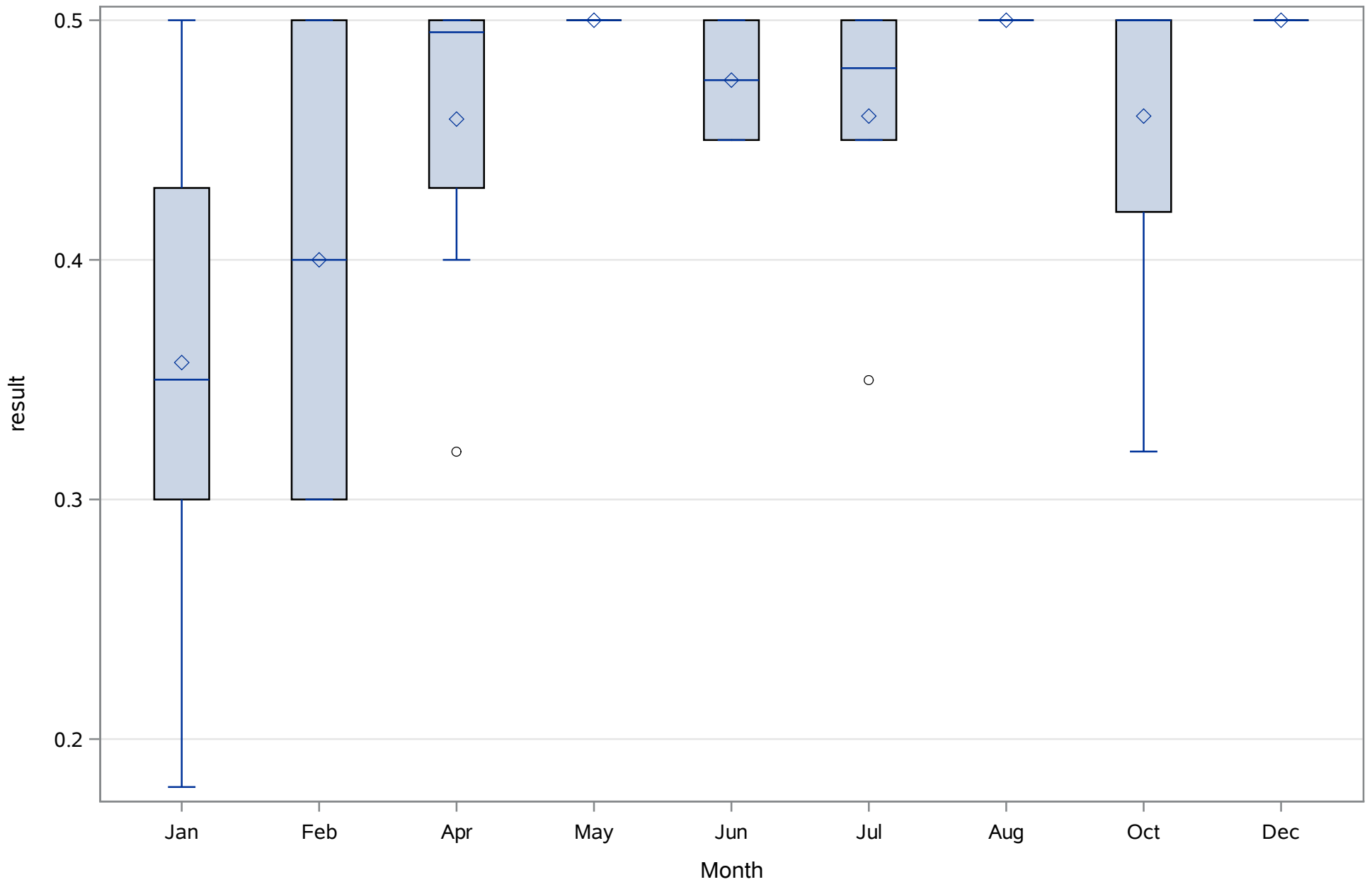
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Chlorophyll a (Total) ug/L



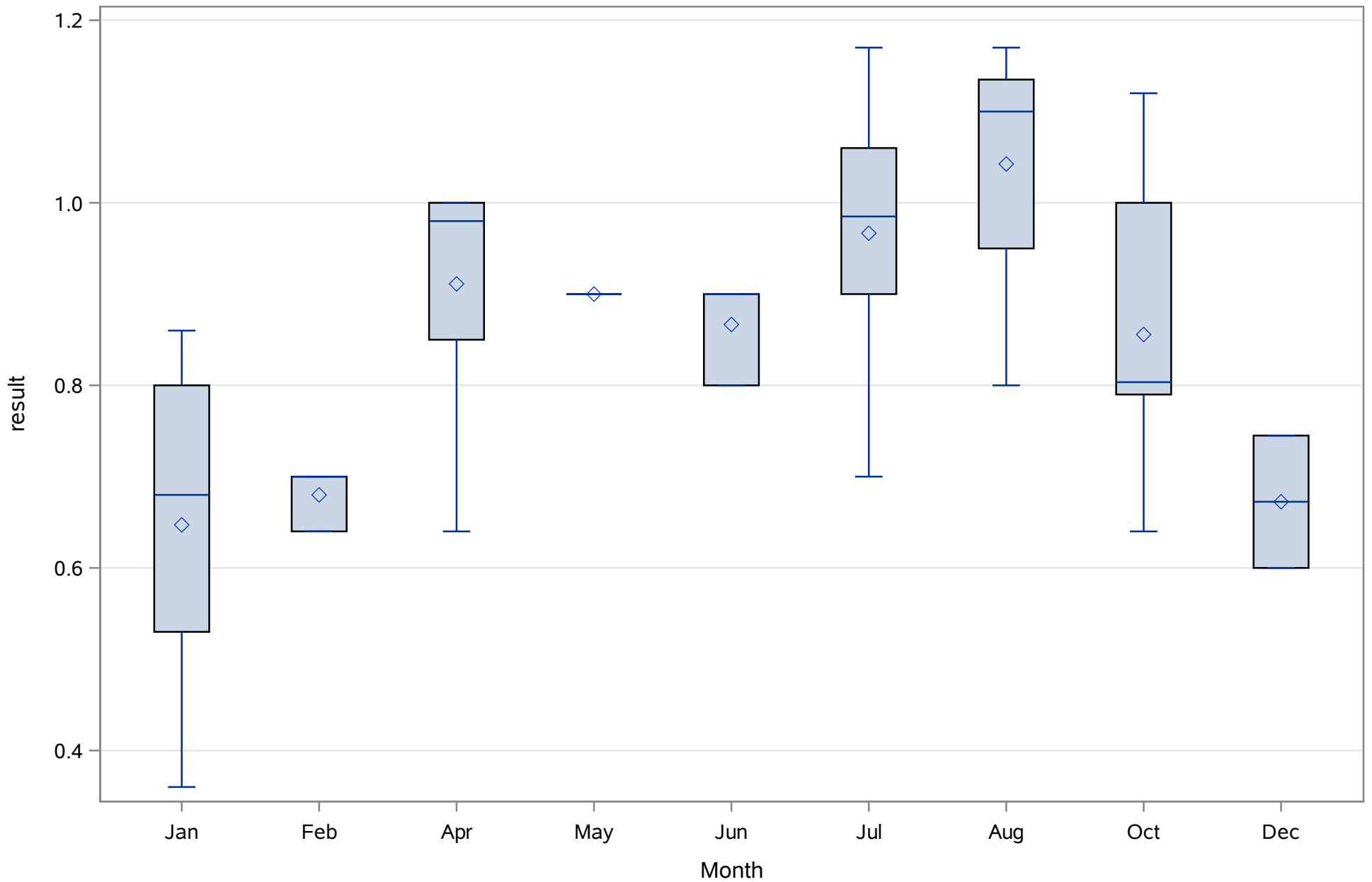
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Color (Dissolved) PCU



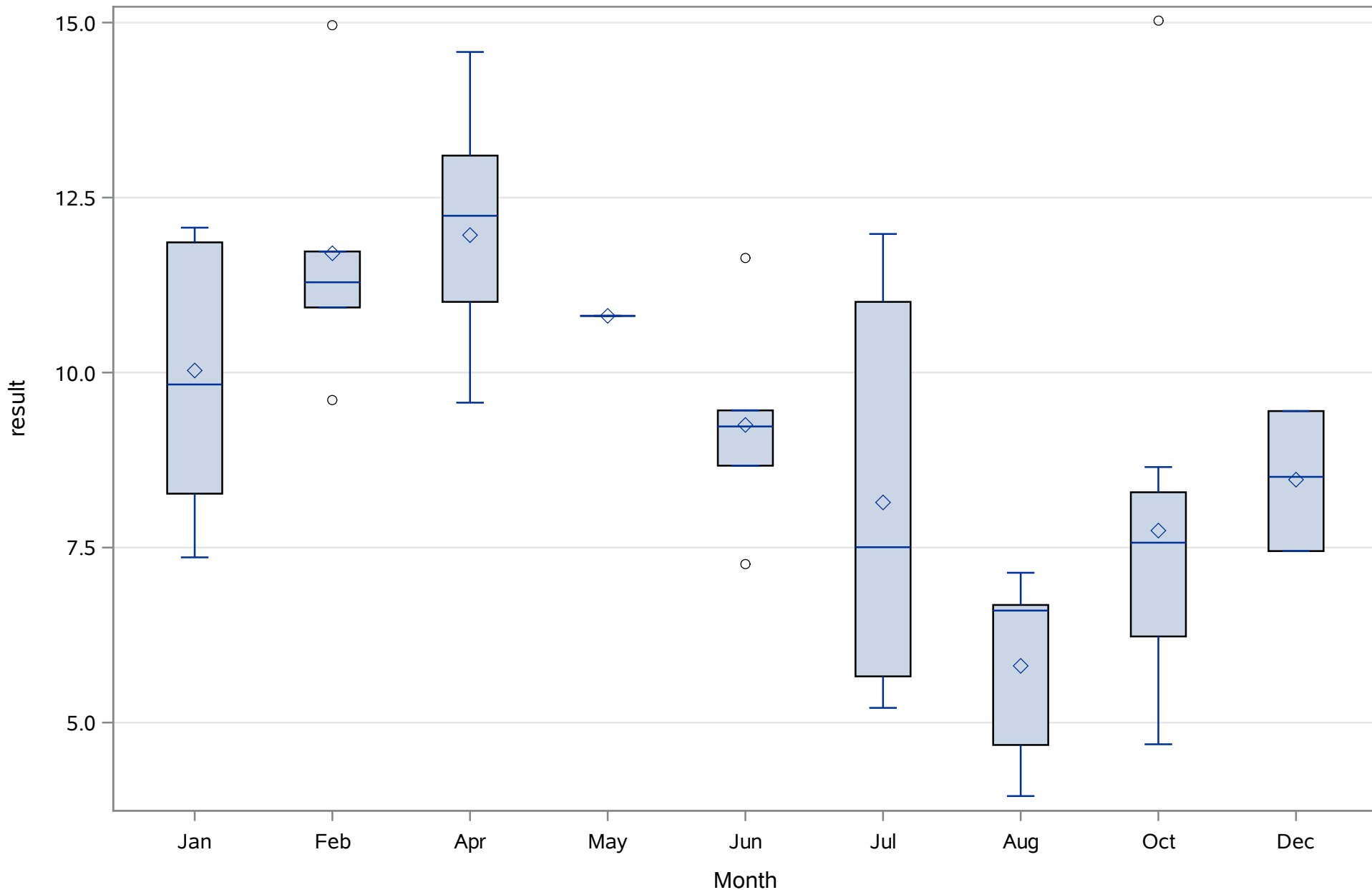
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth (Total) Meters



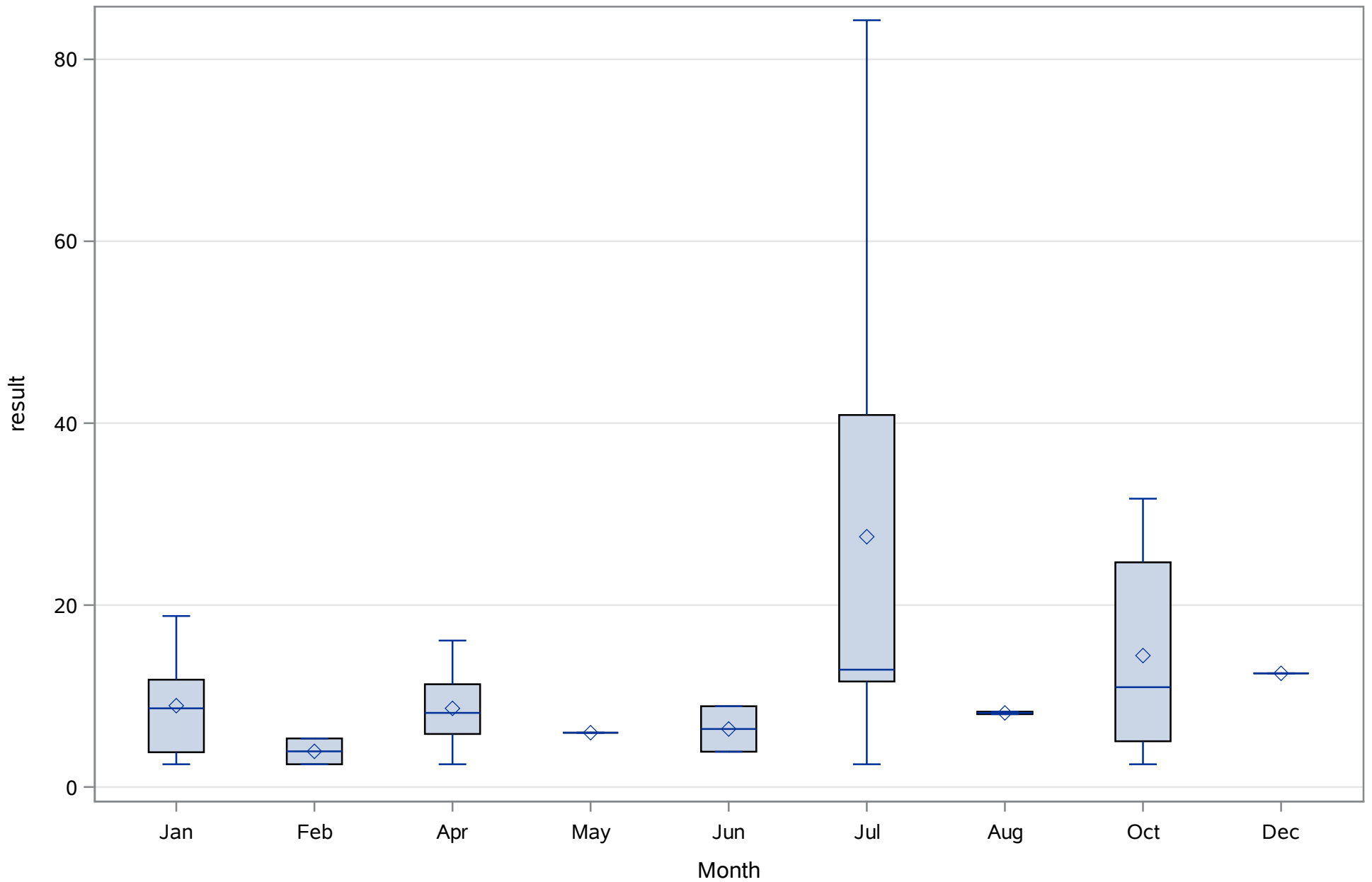
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Depth, bottom (Total) Meters



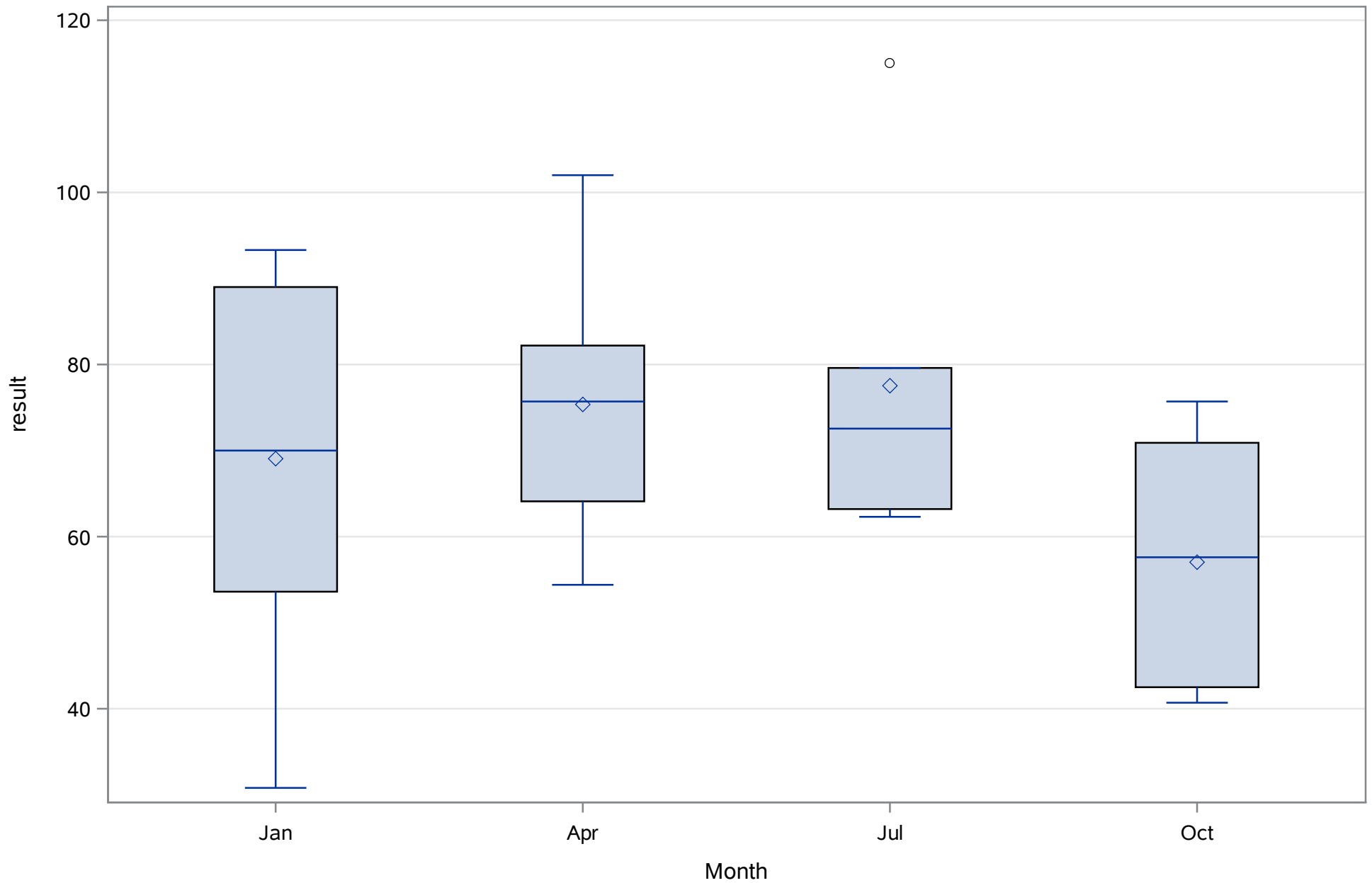
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Dissolved Oxygen (Total) mg/L



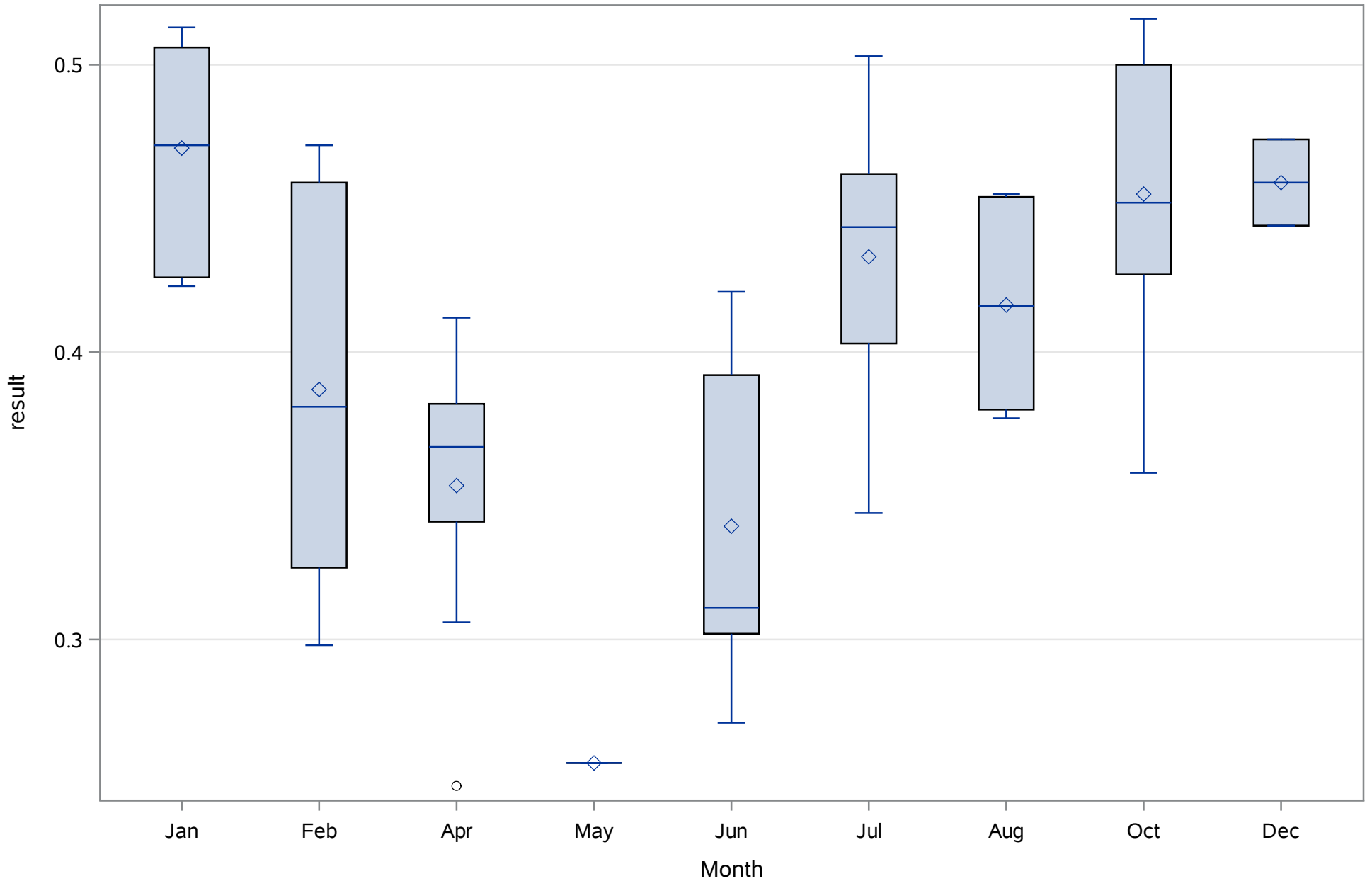
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Iron (Dissolved) ug/L



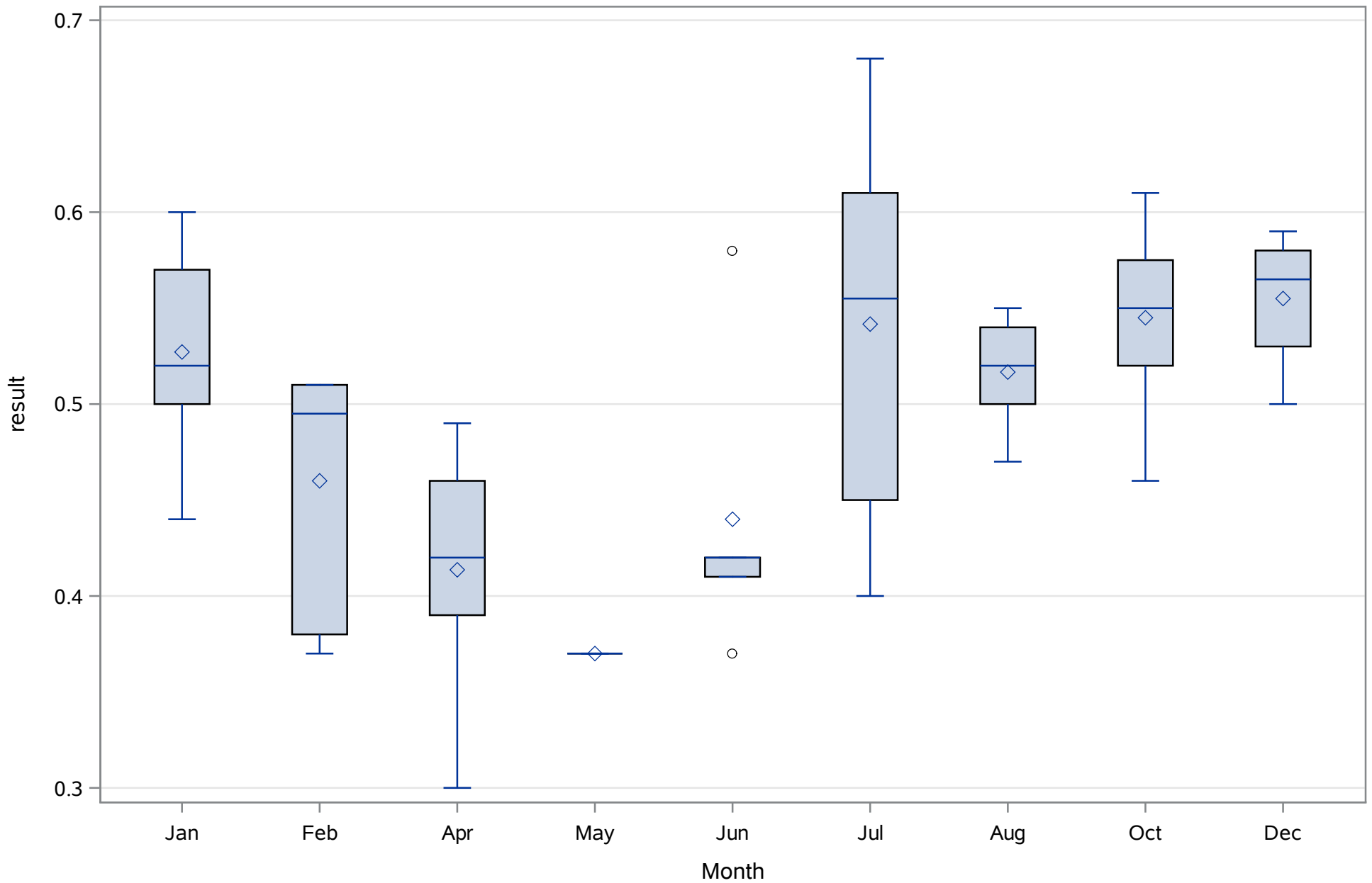
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Magnesium (Dissolved) mg/L



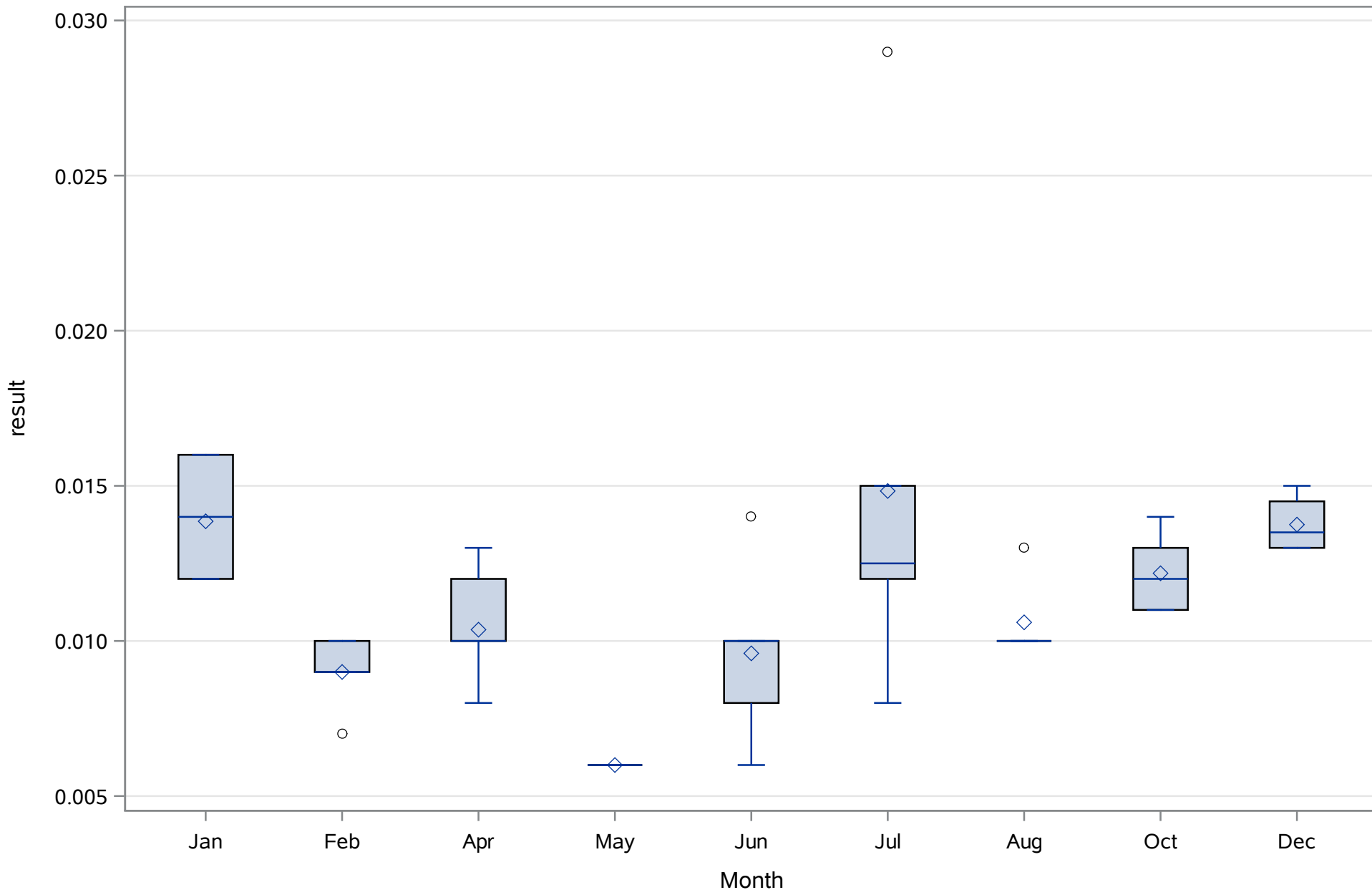
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrate-Nitrite (N) (Total) mg/L



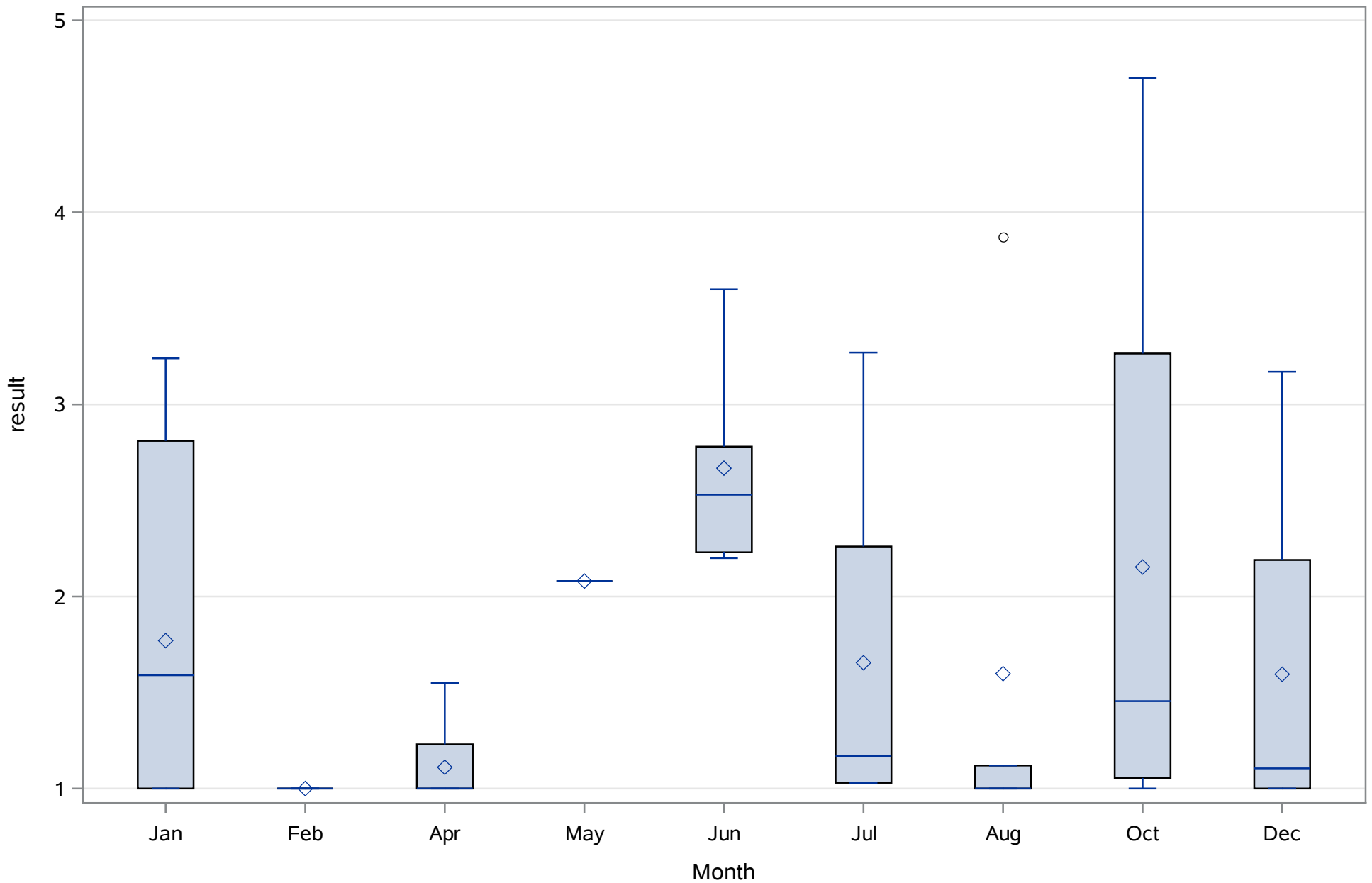
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Nitrogen- Total (Total) mg/L



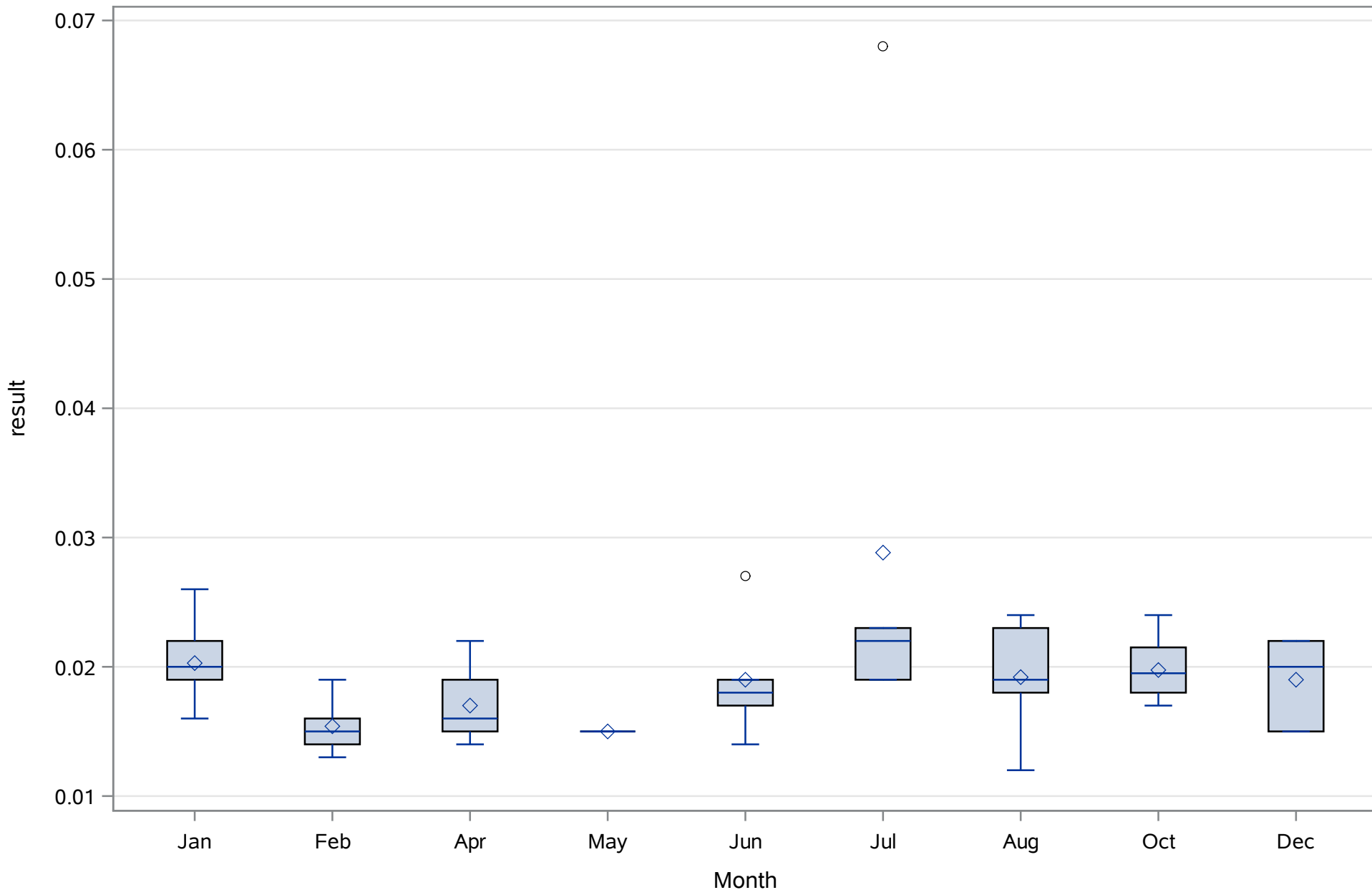
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Orthophosphate (P) (Dissolved) mg/L



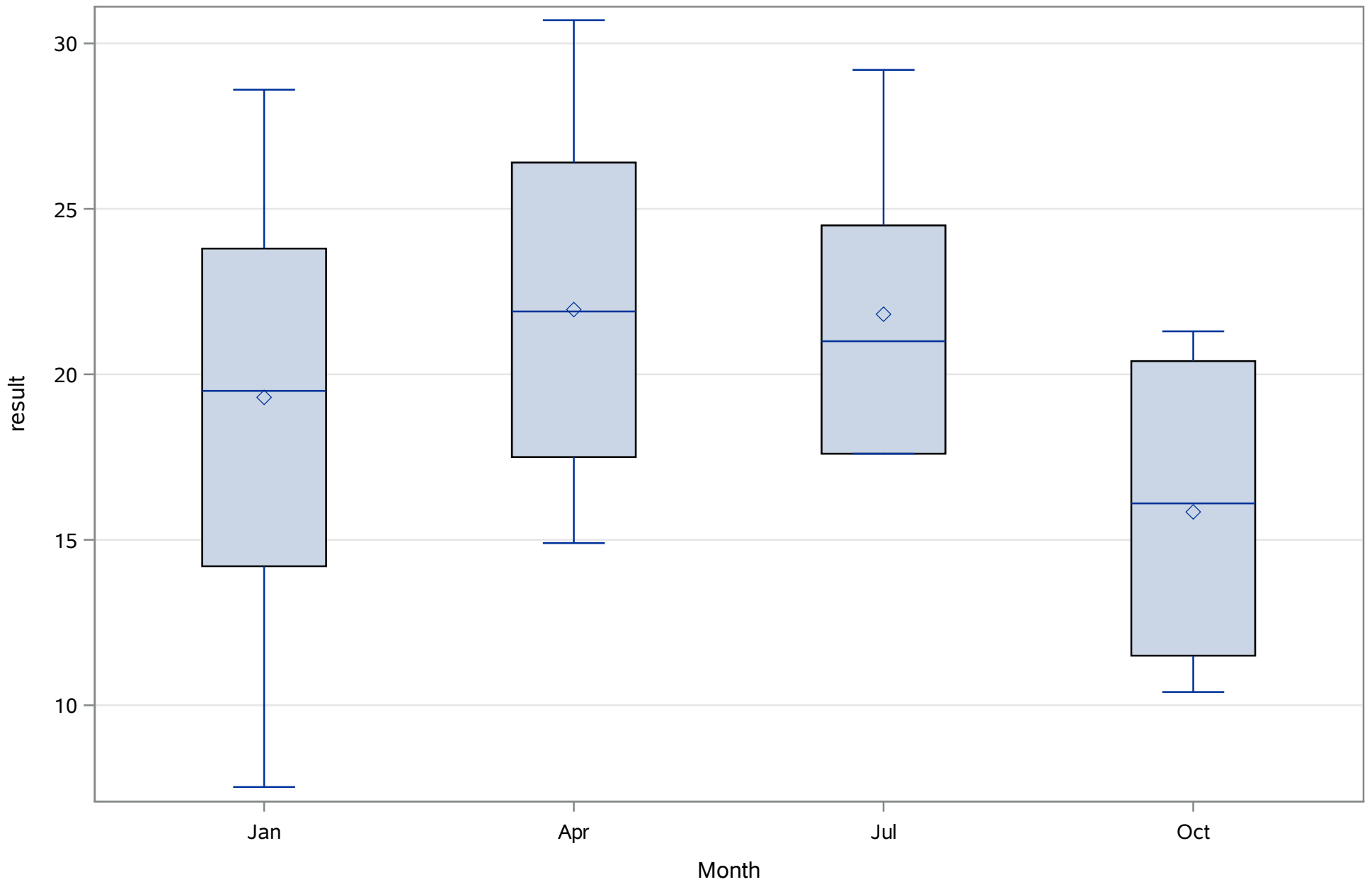
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phaeophytin (Total) ug/L



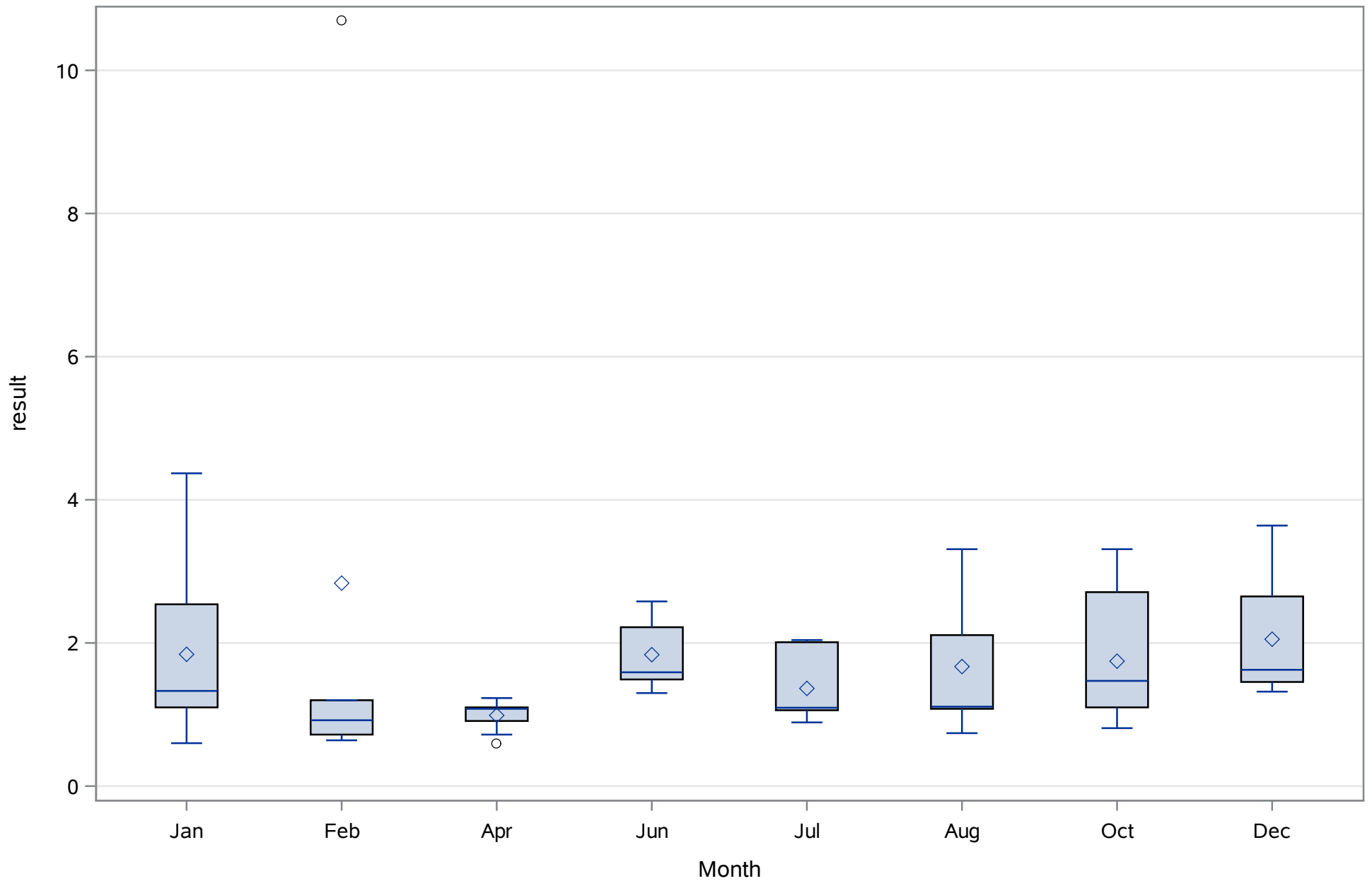
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Phosphorus- Total (Total) mg/L



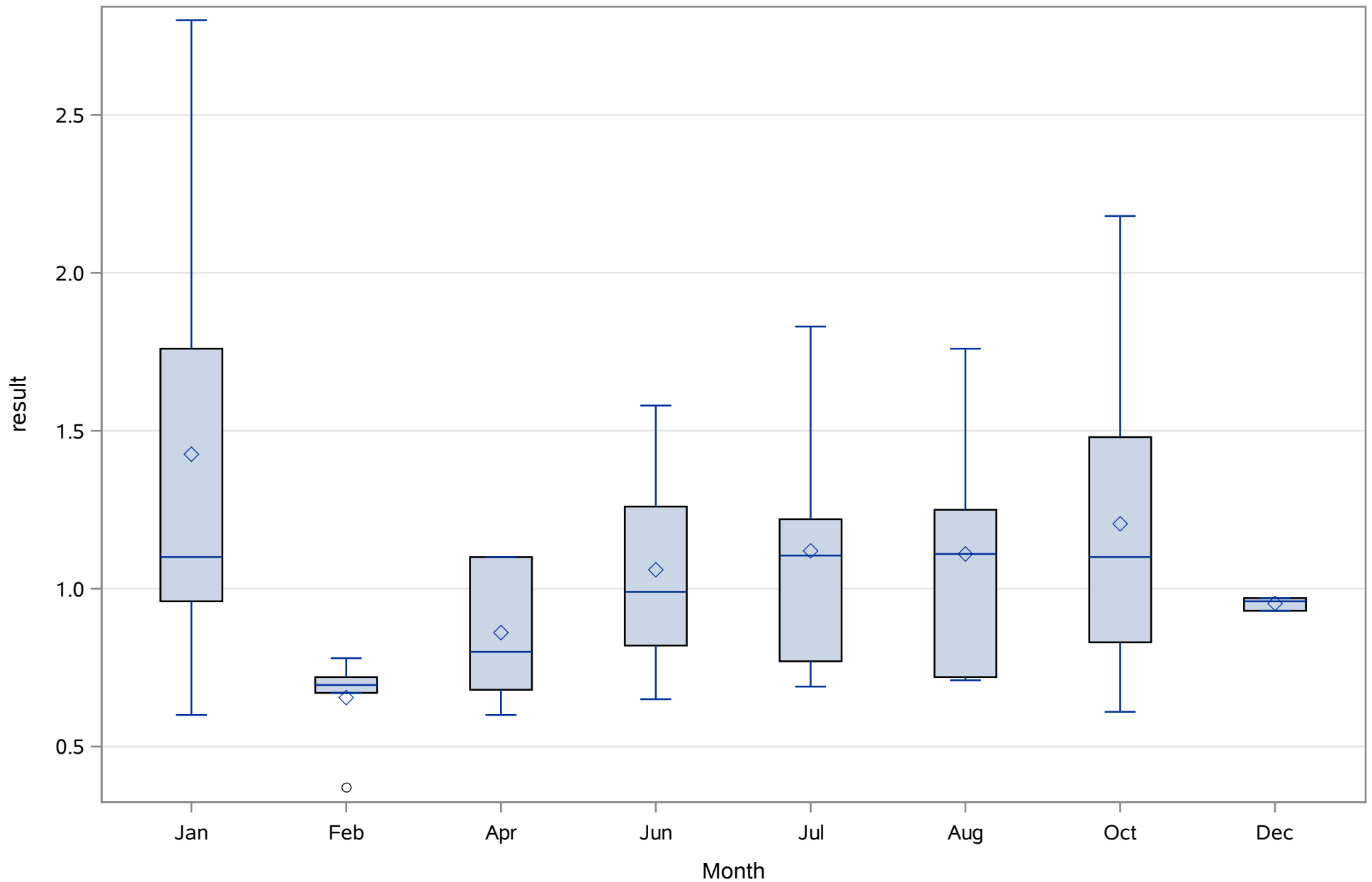
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Potassium (Dissolved) mg/L



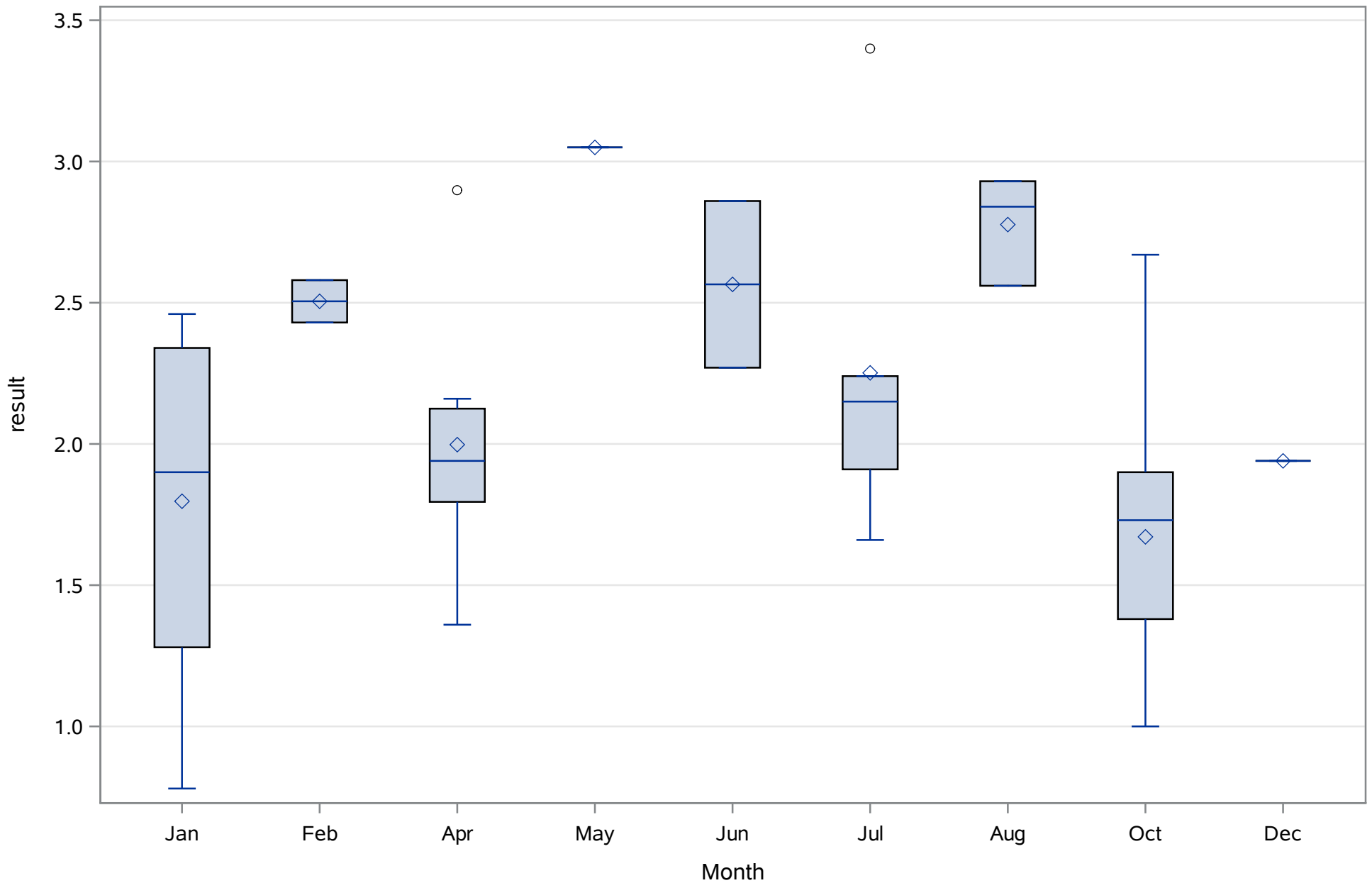
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Nonfilterable (TSS) (Total) mg/L



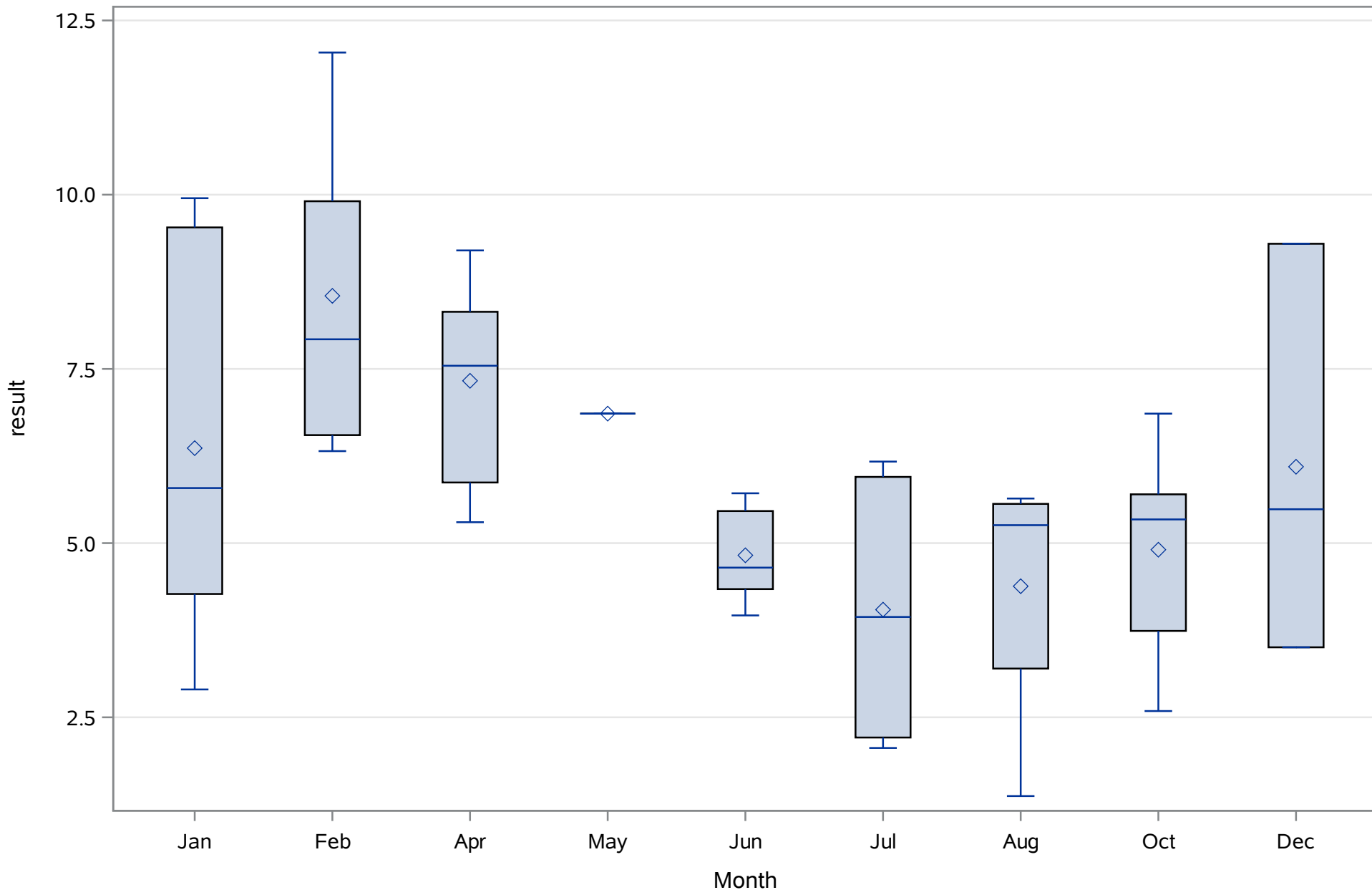
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Residues- Volatile (Total) mg/L



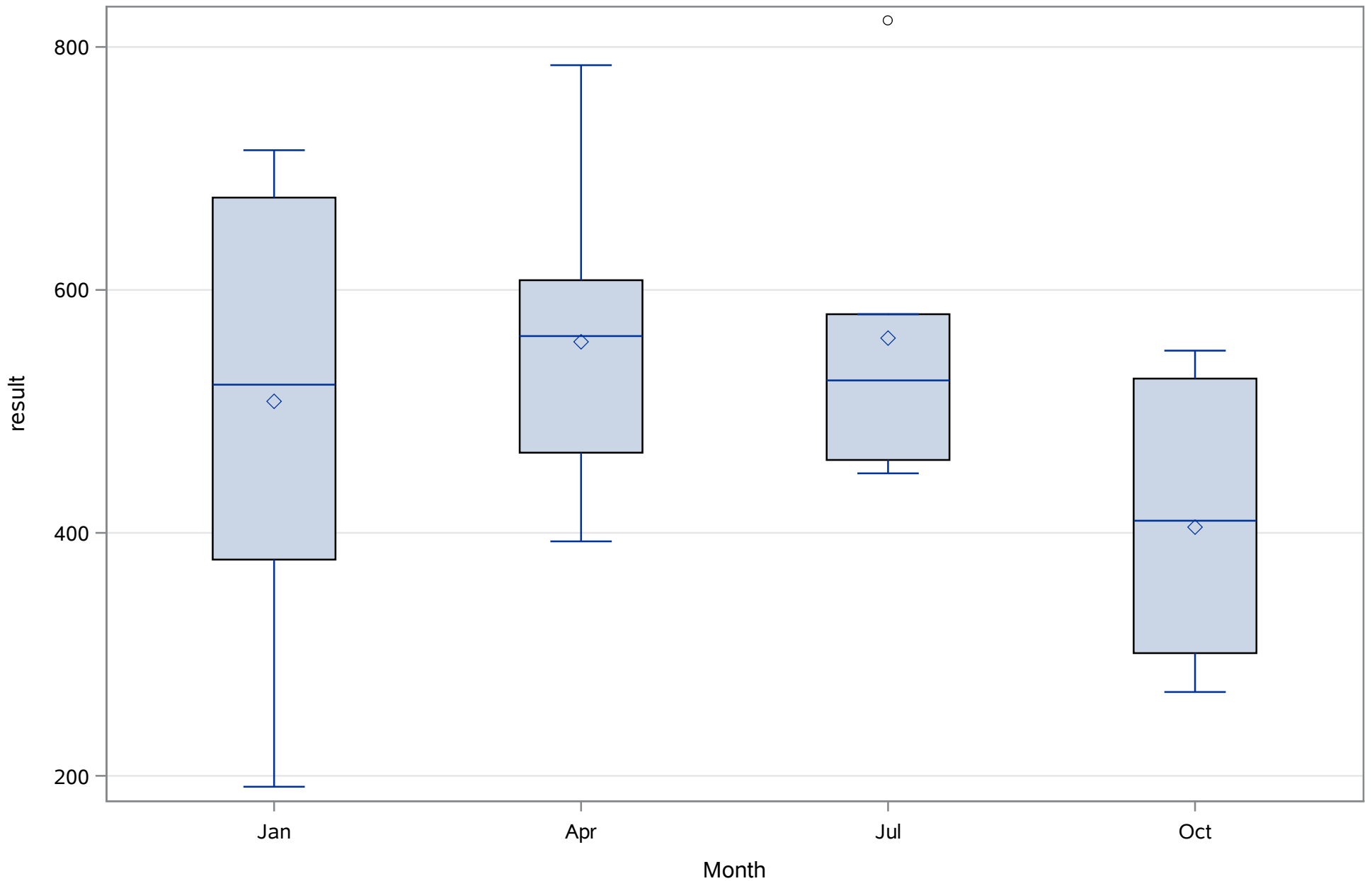
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Salinity (Total) ppt



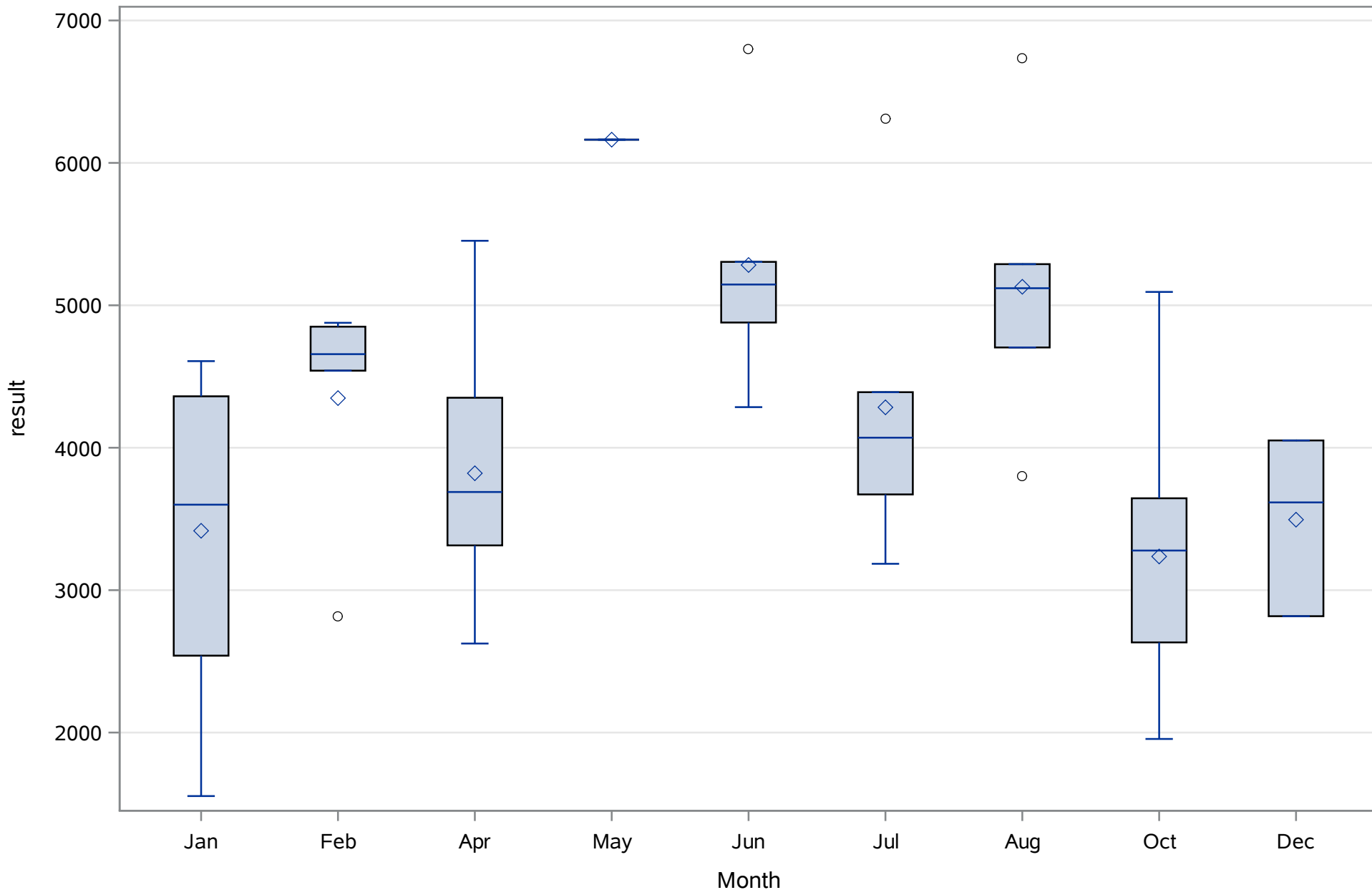
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Secchi-horizontal (Total) Meters



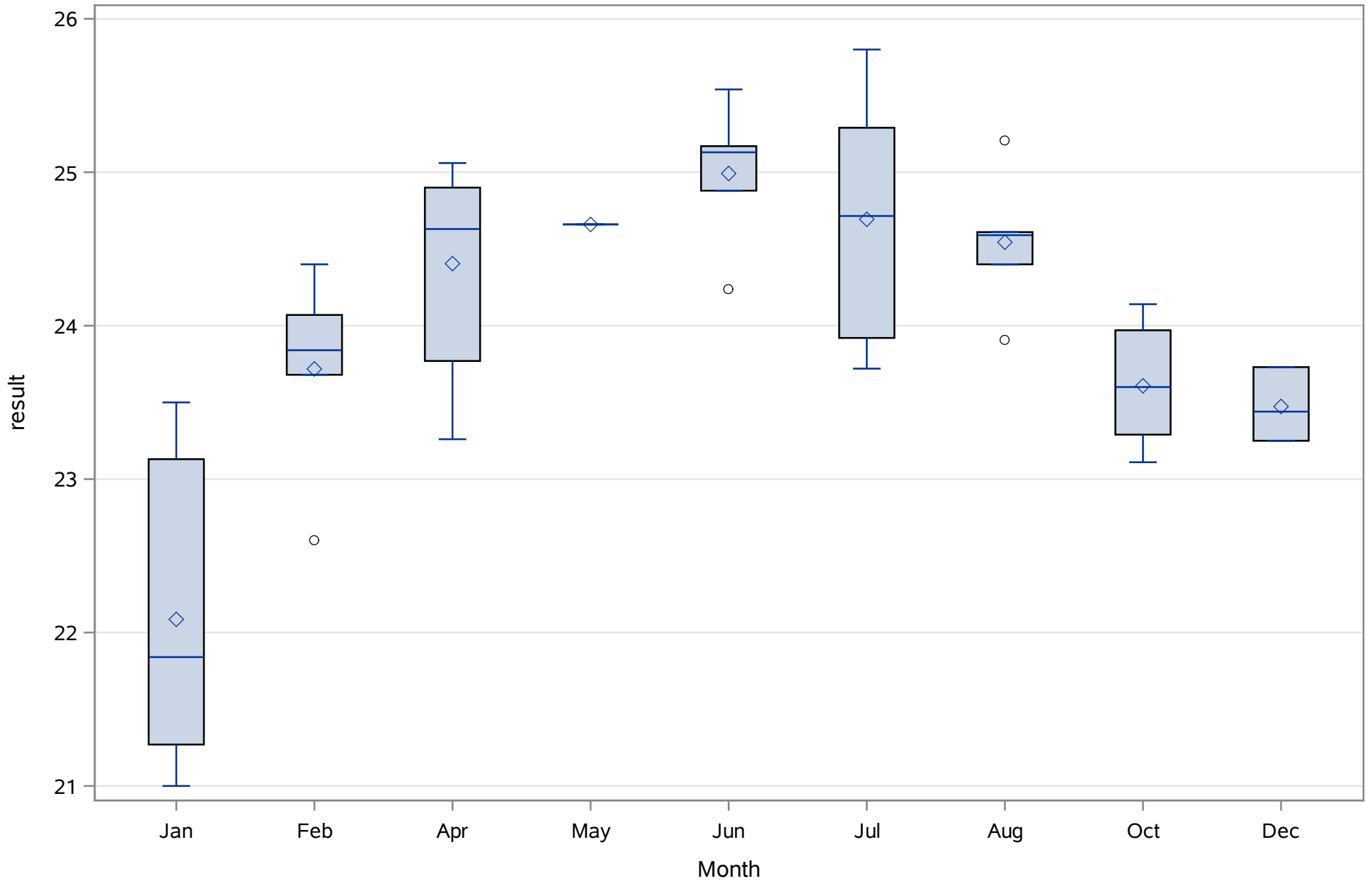
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Sodium (Dissolved) mg/L



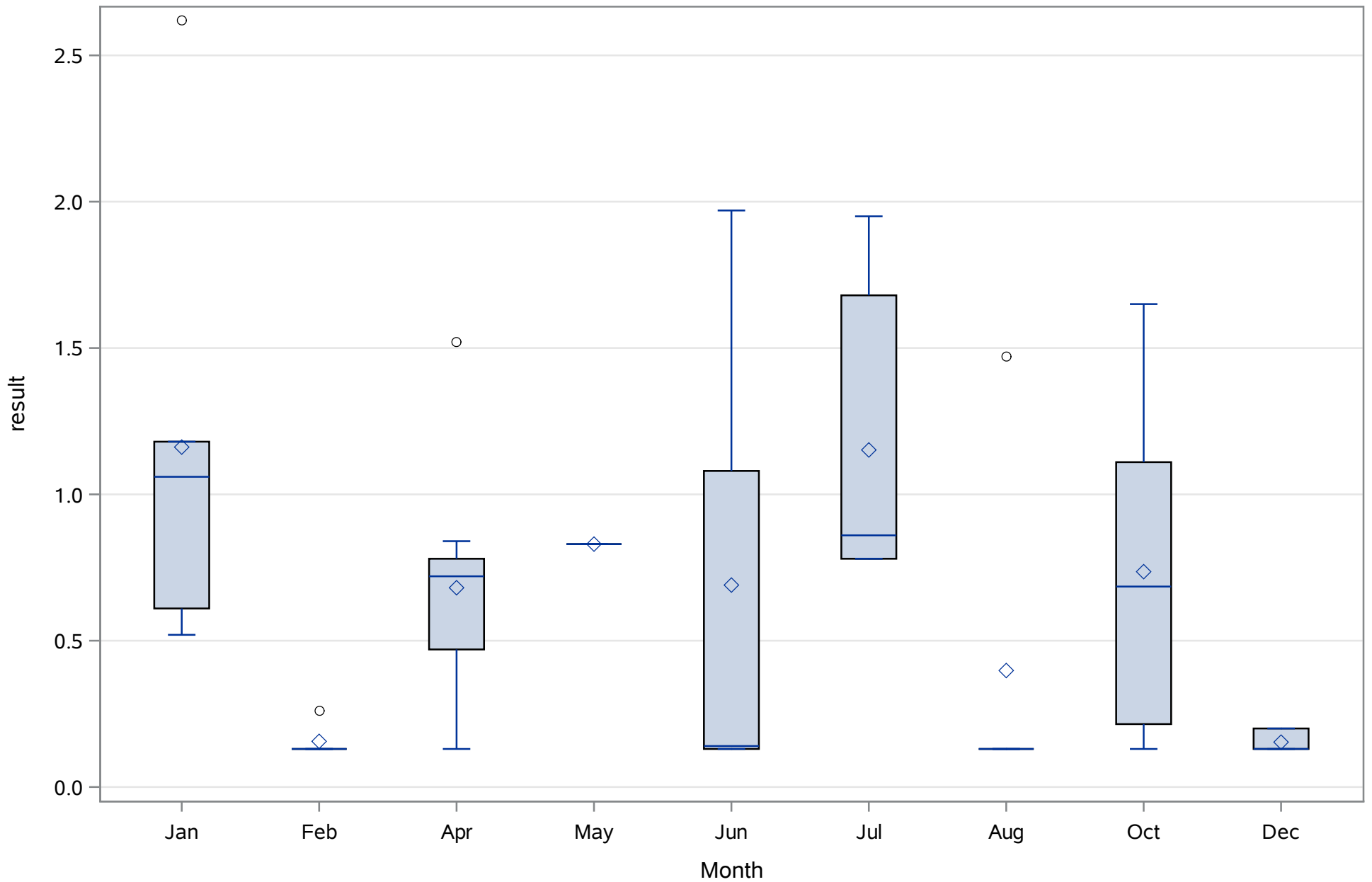
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Specific Conductance (Total) uS/cm



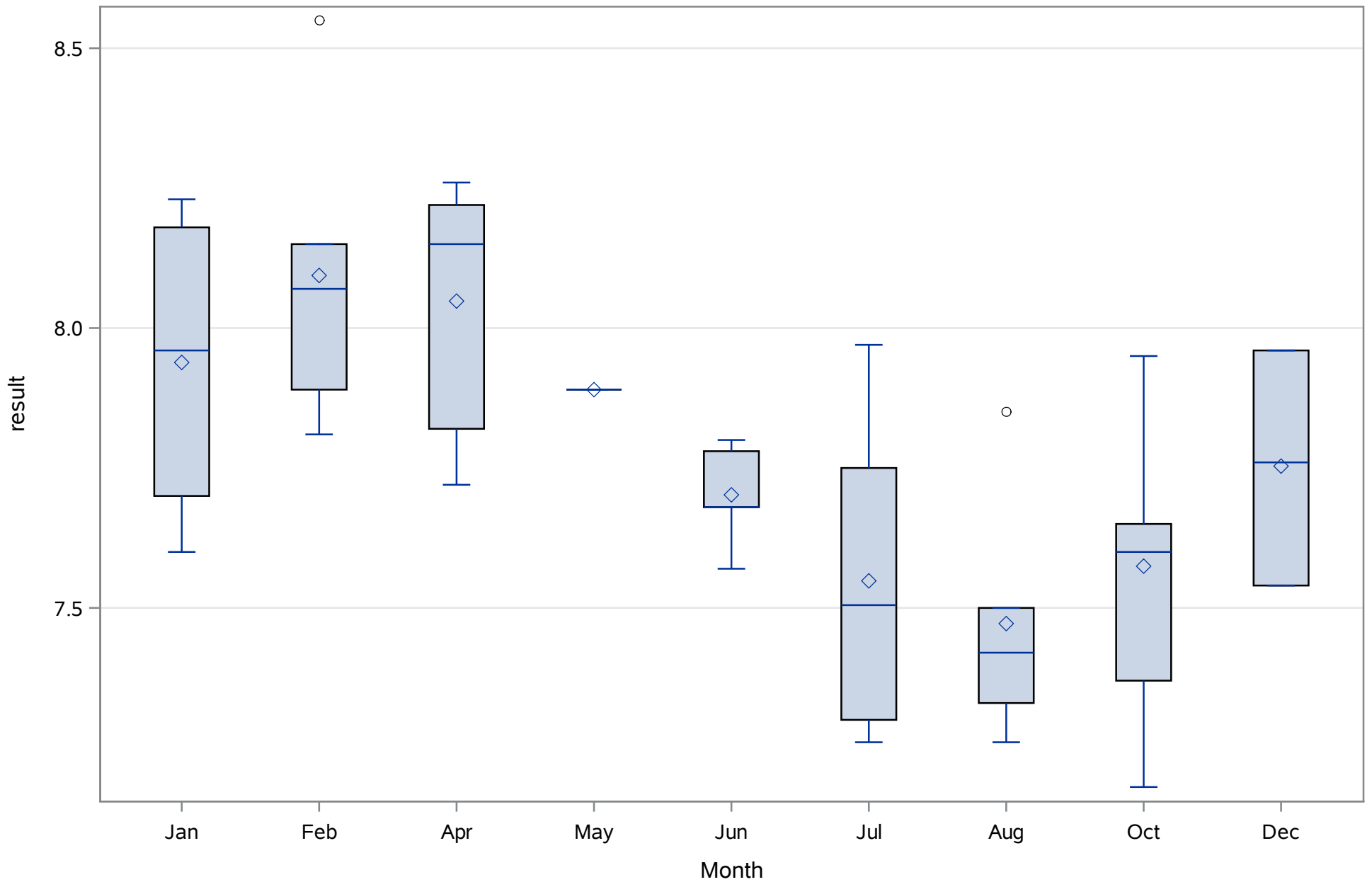
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 0.5
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	APR2006	APR2017	53	13.2%	0.0%	5.7%
Calcium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT2010	APR2017	27	3.7%	0.0%	0.0%
Chlorophyll a (Total)	ug/L	OCT2005	APR2017	58	10.3%	0.0%	5.2%
Chlorophyll b (Total)	ug/L	FEB2006	APR2006	2	0.0%	0.0%	0.0%
Chlorophyll c (Total)	ug/L	OCT2005	OCT2005	1	0.0%	0.0%	100.0%
Cobalt (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	OCT2006	JUN2009	17	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	DEC2005	APR2017	55	9.1%	0.0%	3.6%
Copper (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Depth (Total)	Meters	AUG2008	APR2017	39	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	AUG2007	APR2017	45	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	DEC2008	APR2017	37	2.7%	0.0%	2.7%
Magnesium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Molybdenum (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	FEB2006	APR2017	55	1.8%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	OCT2005	APR2017	58	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT2005	APR2017	56	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	FEB2006	APR2017	54	5.6%	0.0%	3.7%
Phosphorus- Total (Total)	mg/L	OCT2005	APR2017	56	5.4%	0.0%	1.8%
Potassium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT2005	APR2017	55	5.5%	0.0%	1.8%
Residues- Volatile (Total)	mg/L	OCT2005	APR2017	56	3.6%	0.0%	1.8%
Salinity (Total)	ppth	AUG2008	APR2017	39	0.0%	0.0%	0.0%
Secchi-horizontal (Total)	Meters	FEB2006	APR2017	51	2.0%	0.0%	2.0%
Secchi-vertical (Total)	Meters	APR2010	APR2010	1	0.0%	0.0%	100.0%
Sodium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Total depth at monitored location	Meters	FEB2006	JUN2007	9	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Turbidity (Total)	NTU	FEB2006	APR2017	55	5.5%	0.0%	0.0%
Zinc (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
pH (Total)	SU	FEB2006	APR2017	54	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	53	Sum Weights	53
Mean	0.015	Sum Observations	0.795
Std Deviation	0.01293772	Variance	0.00016738
Skewness	2.20547176	Kurtosis	3.97727973
Uncorrected SS	0.020629	Corrected SS	0.008704
Coeff Variation	86.2514709	Std Error Mean	0.00177713

Basic Statistical Measures			
Location		Variability	
Mean	0.015000	Std Deviation	0.01294
Median	0.010000	Variance	0.0001674
Mode	0.010000	Range	0.05100
		Interquartile Range	0.00600

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.440563	Pr > t 	<.0001
Sign	M	26.5	Pr >= M 	<.0001
Signed Rank	S	715.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.056
99%	0.056
95%	0.054
90%	0.036
75% Q3	0.015
50% Median	0.010
25% Q1	0.009
10%	0.006
5%	0.005
1%	0.005
0% Min	0.005

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

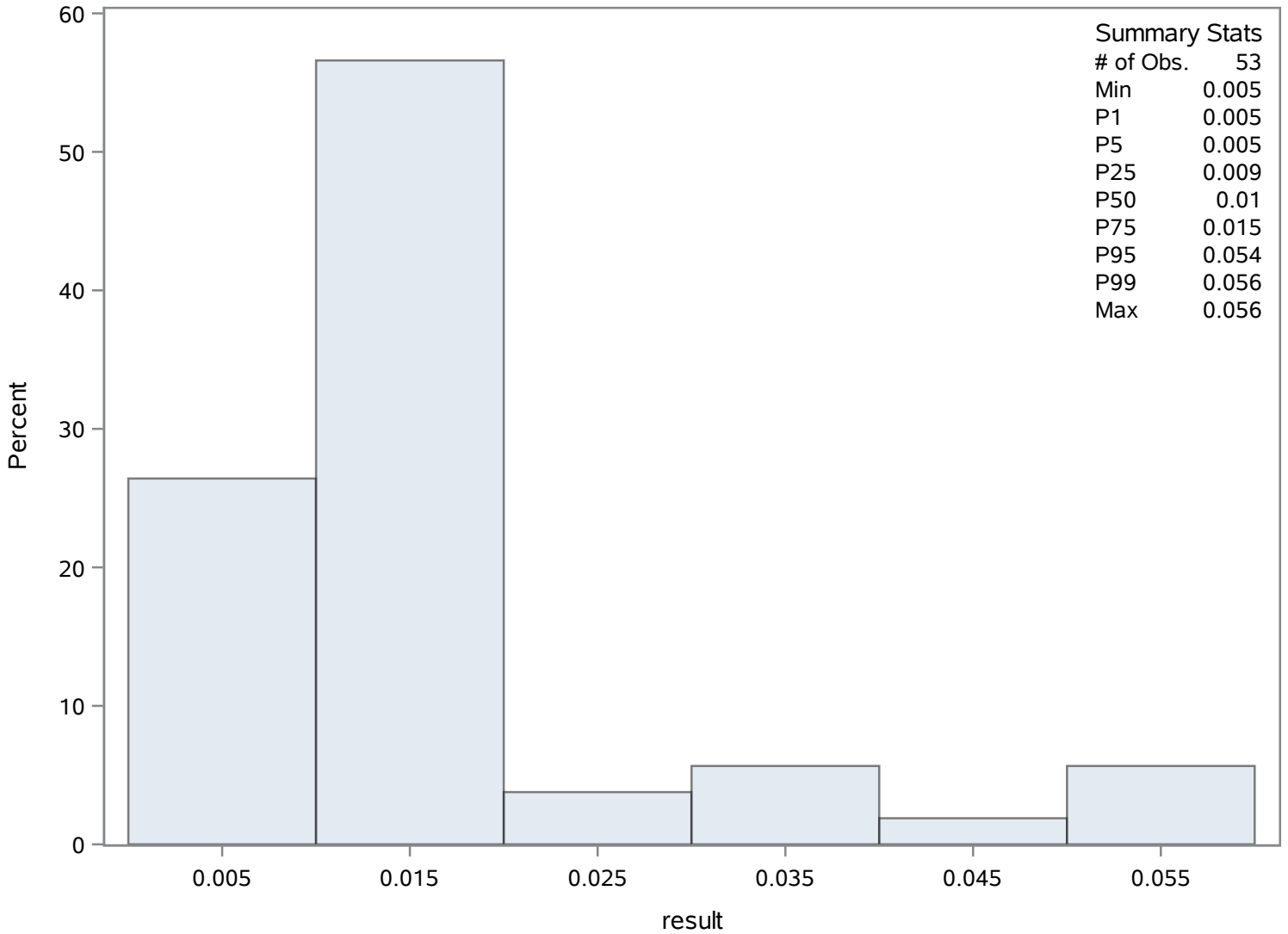
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	18	0.038	51
0.005	11	0.048	15
0.005	7	0.054	2
0.005	6	0.054	9
0.005	3	0.056	26

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 1
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	85.1037037	Sum Observations	2297.8
Std Deviation	7.66206848	Variance	58.7072934
Skewness	0.41670312	Kurtosis	-0.5273017
Uncorrected SS	197077.68	Corrected SS	1526.38963
Coeff Variation	9.0032139	Std Error Mean	1.47456577

Basic Statistical Measures			
Location		Variability	
Mean	85.10370	Std Deviation	7.66207
Median	83.30000	Variance	58.70729
Mode	79.10000	Range	27.40000
		Interquartile Range	10.30000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	57.71442	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	99.7
99%	99.7
95%	98.7
90%	98.4
75% Q3	90.5
50% Median	83.3
25% Q1	80.2
10%	74.2
5%	73.4

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

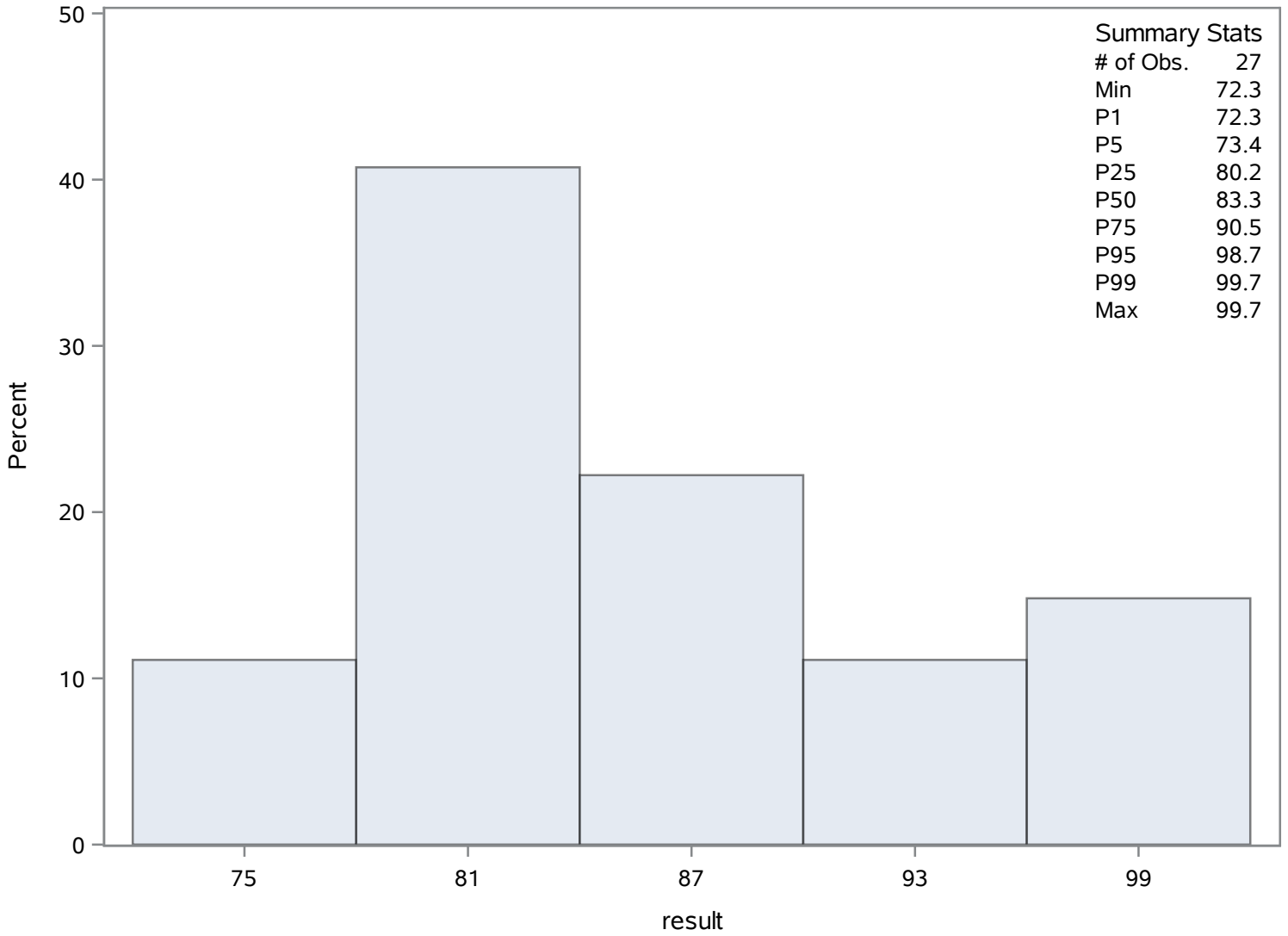
Quantiles (Definition 5)	
Level	Quantile
1%	72.3
0% Min	72.3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
72.3	67	93.3	77
73.4	62	96.8	56
74.2	74	98.4	60
78.6	72	98.7	55
79.1	70	99.7	80

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	1.5062963	Sum Observations	40.67
Std Deviation	1.04857833	Variance	1.09951652
Skewness	1.41996768	Kurtosis	1.53927911
Uncorrected SS	89.8485	Corrected SS	28.5874296
Coeff Variation	69.6130195	Std Error Mean	0.20179899

Basic Statistical Measures			
Location		Variability	
Mean	1.506296	Std Deviation	1.04858
Median	1.010000	Variance	1.09952
Mode	.	Range	3.93000
		Interquartile Range	1.32000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.46434	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.44
99%	4.44
95%	3.89
90%	3.06
75% Q3	2.09
50% Median	1.01
25% Q1	0.77
10%	0.55
5%	0.52
1%	0.51
0% Min	0.51

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Carbon- Total Organic (Total) mg/L

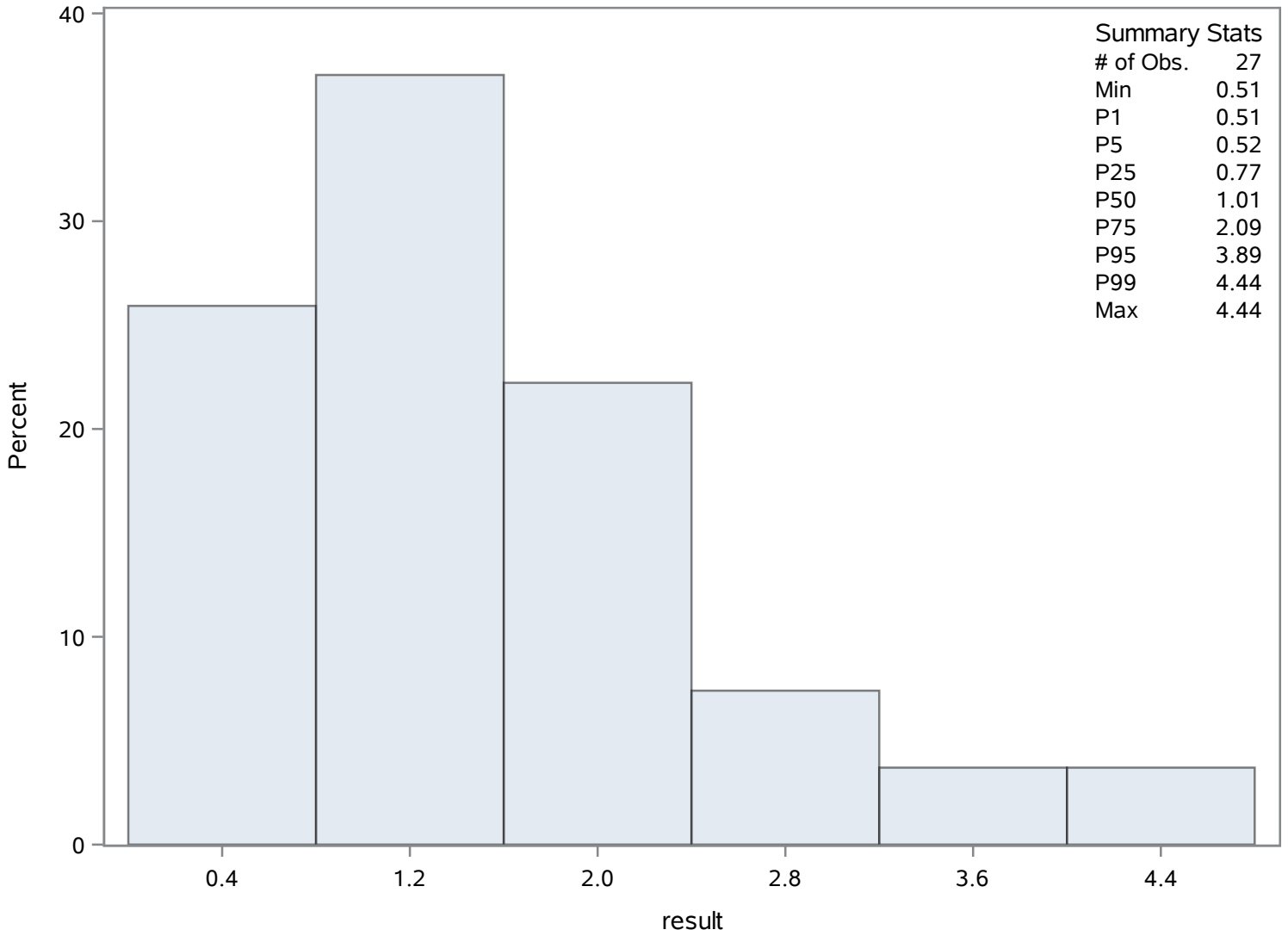
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.51	85	2.22	100
0.52	94	2.92	98
0.55	82	3.06	97
0.56	86	3.89	88
0.57	90	4.44	92

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	7.32310345	Sum Observations	424.74
Std Deviation	14.0620048	Variance	197.73998
Skewness	2.98152447	Kurtosis	8.3704142
Uncorrected SS	14381.5938	Corrected SS	11271.1788
Coeff Variation	192.02248	Std Error Mean	1.84643169

Basic Statistical Measures			
Location		Variability	
Mean	7.323103	Std Deviation	14.06200
Median	2.075000	Variance	197.73998
Mode	1.000000	Range	66.66000
		Interquartile Range	3.34000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.966084	Pr > t 	0.0002
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	67.660
99%	67.660
95%	49.540
90%	22.510
75% Q3	4.390
50% Median	2.075
25% Q1	1.050
10%	1.000
5%	1.000
1%	1.000
0% Min	1.000

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

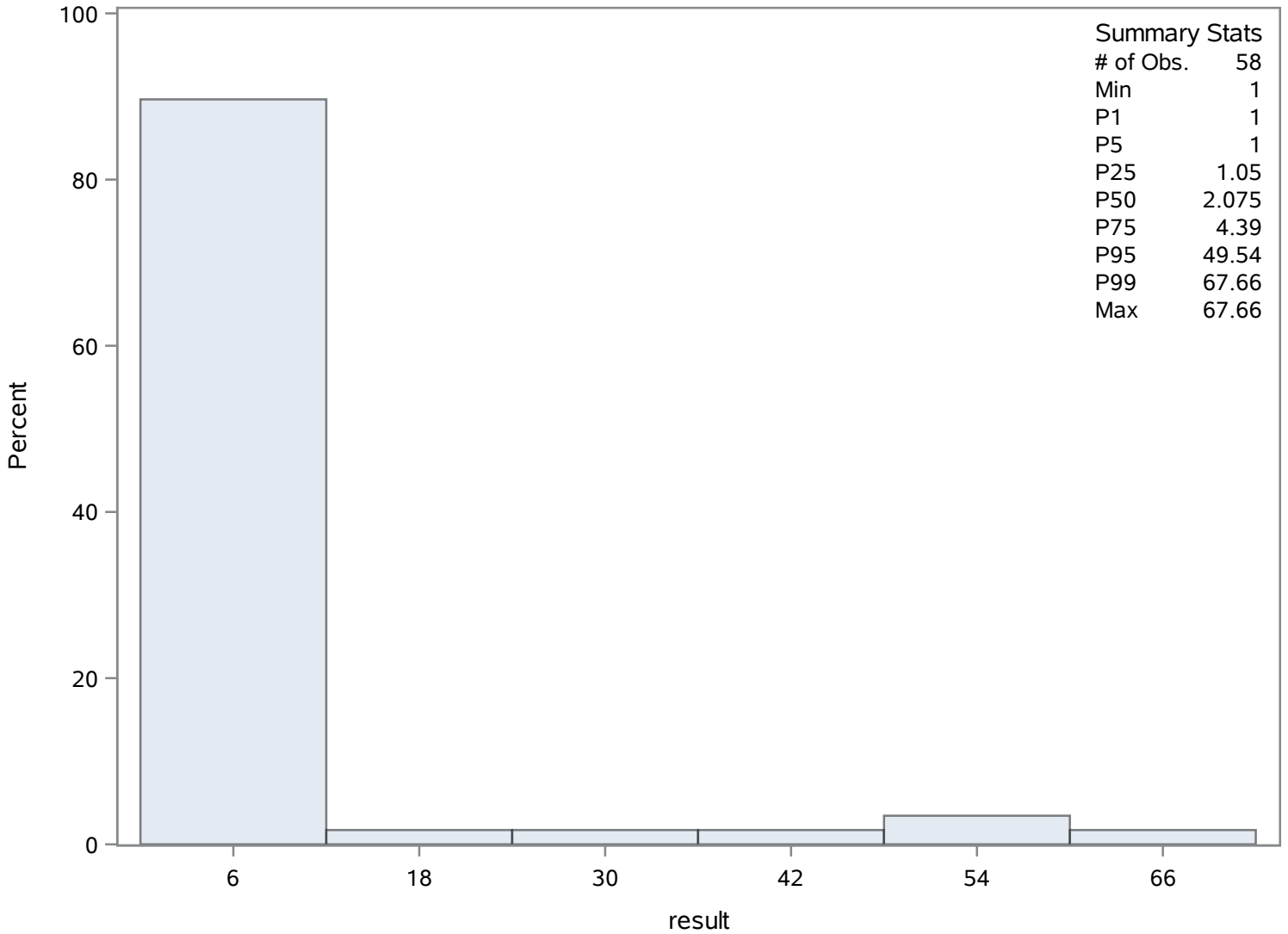
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	164	35.18	115
1	153	46.93	158
1	152	49.54	142
1	149	50.72	154
1	148	67.66	162

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 1
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	9.55254545	Sum Observations	525.39
Std Deviation	8.19241547	Variance	67.1156712
Skewness	2.48299048	Kurtosis	6.89354251
Uncorrected SS	8643.0581	Corrected SS	3624.24624
Coeff Variation	85.7615963	Std Error Mean	1.10466508

Basic Statistical Measures			
Location		Variability	
Mean	9.55255	Std Deviation	8.19242
Median	6.20000	Variance	67.11567
Mode	10.00000	Range	41.90000
		Interquartile Range	5.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.647459	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	44.5
99%	44.5
95%	27.0
90%	20.4
75% Q3	10.0
50% Median	6.2
25% Q1	5.0
10%	3.4
5%	2.7
1%	2.6
0% Min	2.6

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Color (Dissolved) PCU

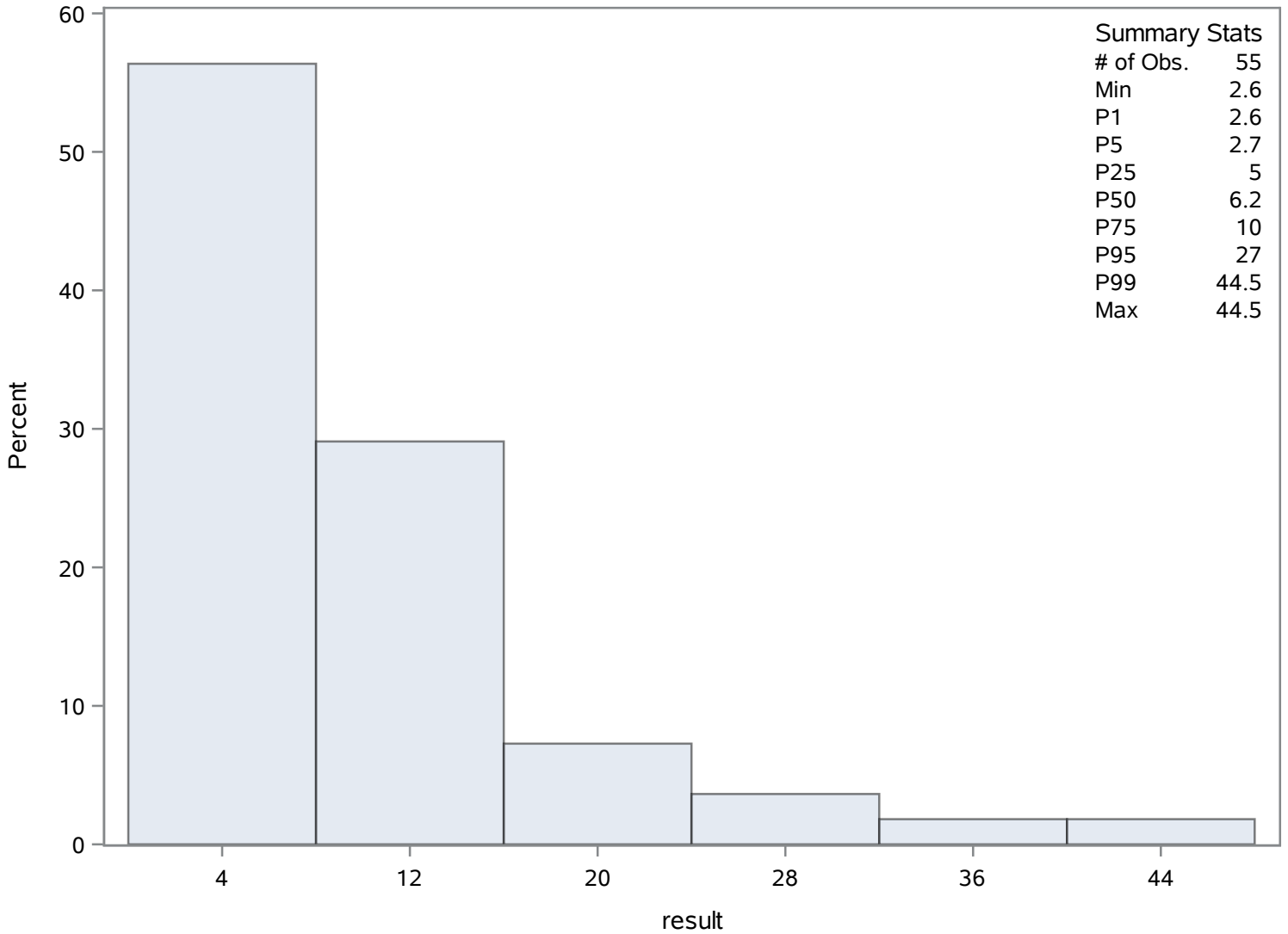
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.6	203	23.09	182
2.6	198	26.40	211
2.7	195	27.00	210
3.0	207	35.50	201
3.1	185	44.50	205

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	0.32384615	Sum Observations	12.63
Std Deviation	0.10776718	Variance	0.01161377
Skewness	0.17811136	Kurtosis	-0.9563129
Uncorrected SS	4.5315	Corrected SS	0.44132308
Coeff Variation	33.2772766	Std Error Mean	0.01725656

Basic Statistical Measures			
Location		Variability	
Mean	0.323846	Std Deviation	0.10777
Median	0.320000	Variance	0.01161
Mode	0.250000	Range	0.36000
		Interquartile Range	0.15000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.76655	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.50
99%	0.50
95%	0.50
90%	0.50
75% Q3	0.40
50% Median	0.32
25% Q1	0.25
10%	0.20
5%	0.15
1%	0.14
0% Min	0.14

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth (Total) Meters

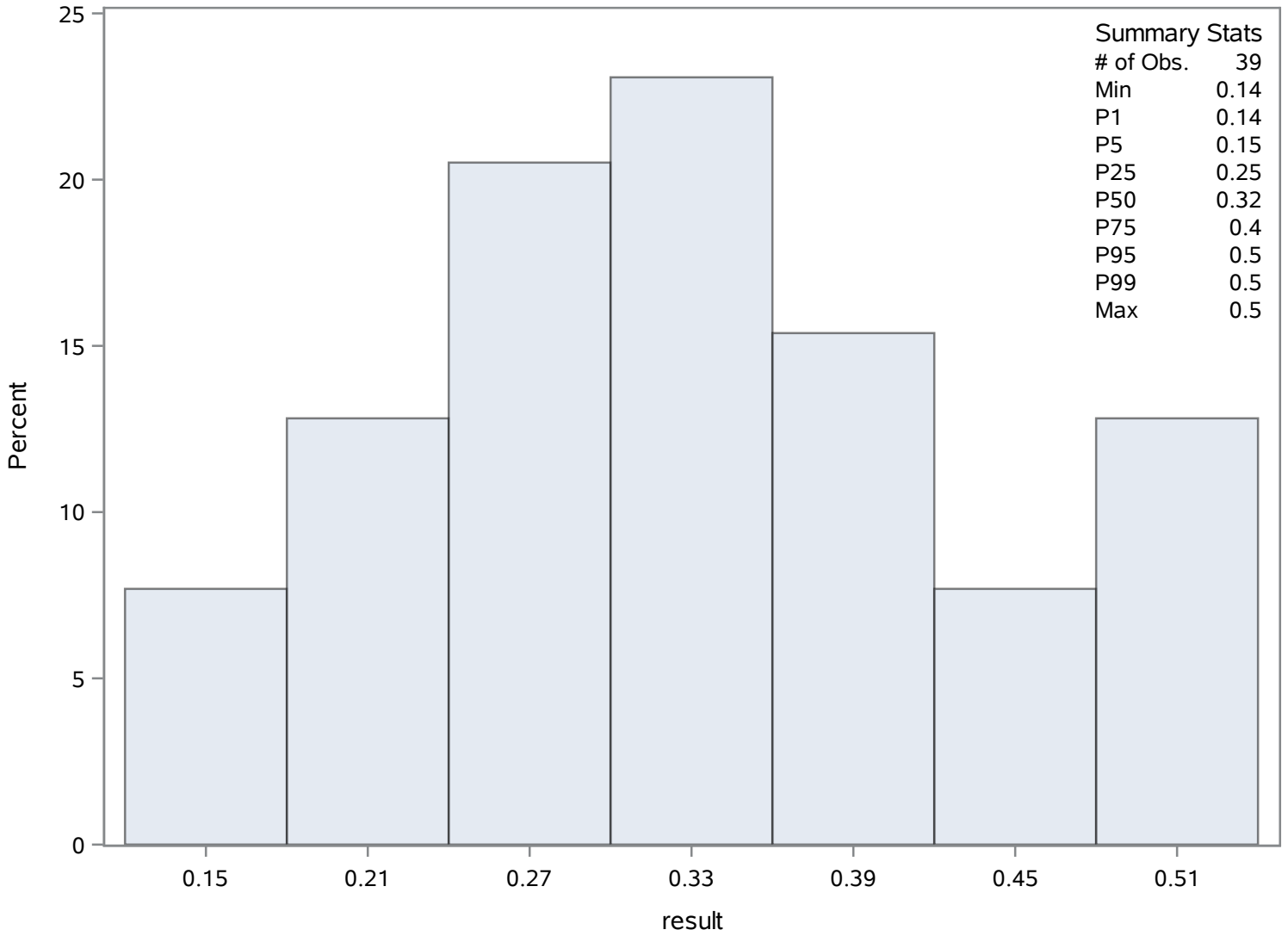
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.14	259	0.5	221
0.15	258	0.5	222
0.15	224	0.5	225
0.20	254	0.5	226
0.20	246	0.5	227

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	0.56753333	Sum Observations	25.539
Std Deviation	0.18234827	Variance	0.03325089
Skewness	0.20650941	Kurtosis	-0.8475702
Uncorrected SS	15.957273	Corrected SS	1.4630392
Coeff Variation	32.1299662	Std Error Mean	0.02718287

Basic Statistical Measures			
Location		Variability	
Mean	0.567533	Std Deviation	0.18235
Median	0.530000	Variance	0.03325
Mode	0.500000	Range	0.70000
		Interquartile Range	0.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	20.87834	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.95
99%	0.95
95%	0.88
90%	0.81
75% Q3	0.70
50% Median	0.53
25% Q1	0.40
10%	0.30
5%	0.30
1%	0.25
0% Min	0.25

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth, bottom (Total) Meters

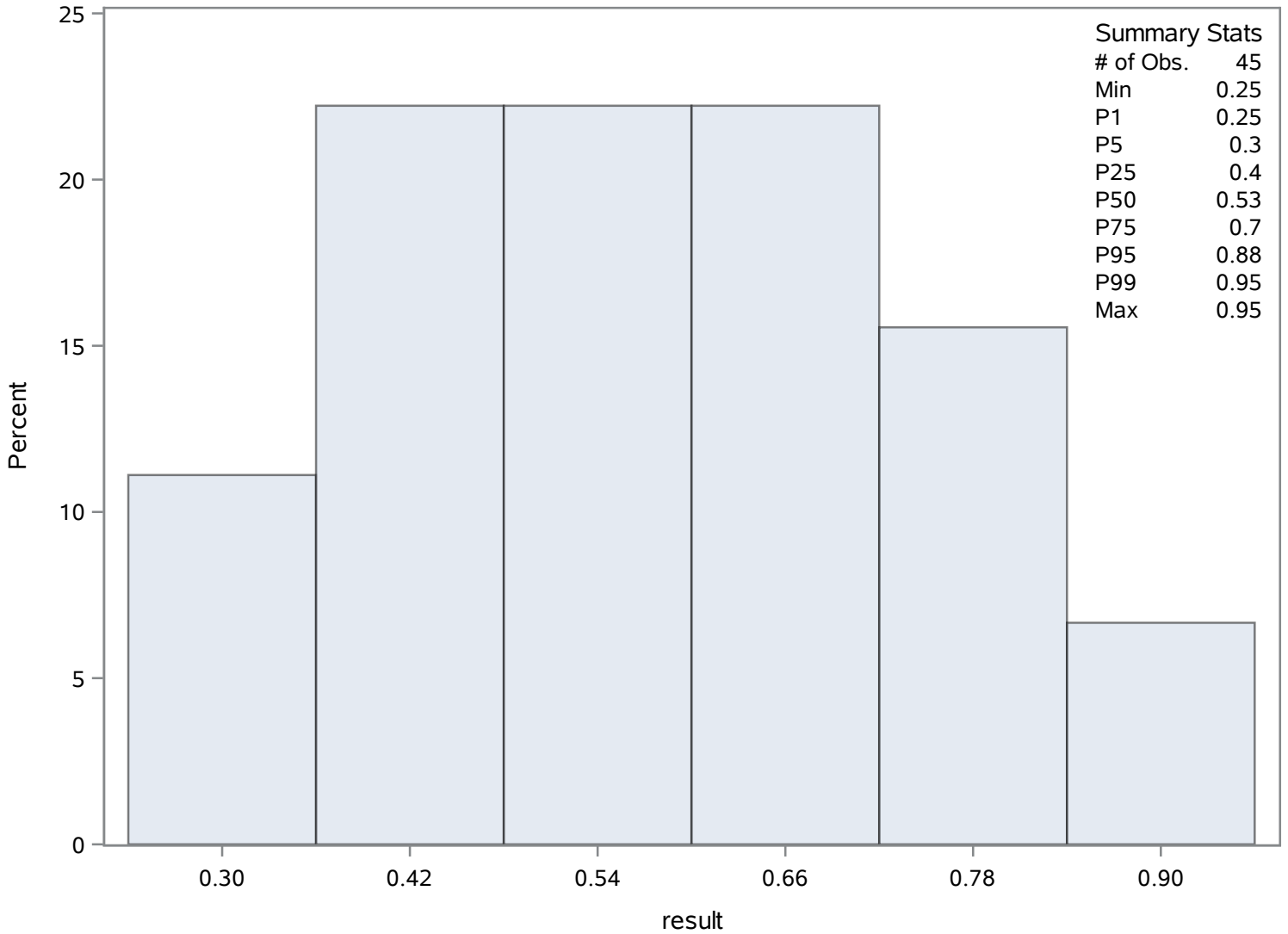
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.25	299	0.81	277
0.28	304	0.82	294
0.30	303	0.88	285
0.30	274	0.90	280
0.30	273	0.95	281

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth, bottom (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	10.3459259	Sum Observations	558.68
Std Deviation	3.90026197	Variance	15.2120435
Skewness	0.31055446	Kurtosis	-0.5509467
Uncorrected SS	6586.3002	Corrected SS	806.238304
Coeff Variation	37.6985299	Std Error Mean	0.53075843

Basic Statistical Measures			
Location		Variability	
Mean	10.34593	Std Deviation	3.90026
Median	9.74500	Variance	15.21204
Mode	8.74000	Range	16.81000
		Interquartile Range	6.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.49272	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.900
99%	18.900
95%	18.120
90%	15.590
75% Q3	13.500
50% Median	9.745
25% Q1	7.100
10%	6.050
5%	4.520
1%	2.090
0% Min	2.090

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Dissolved Oxygen (Total) mg/L

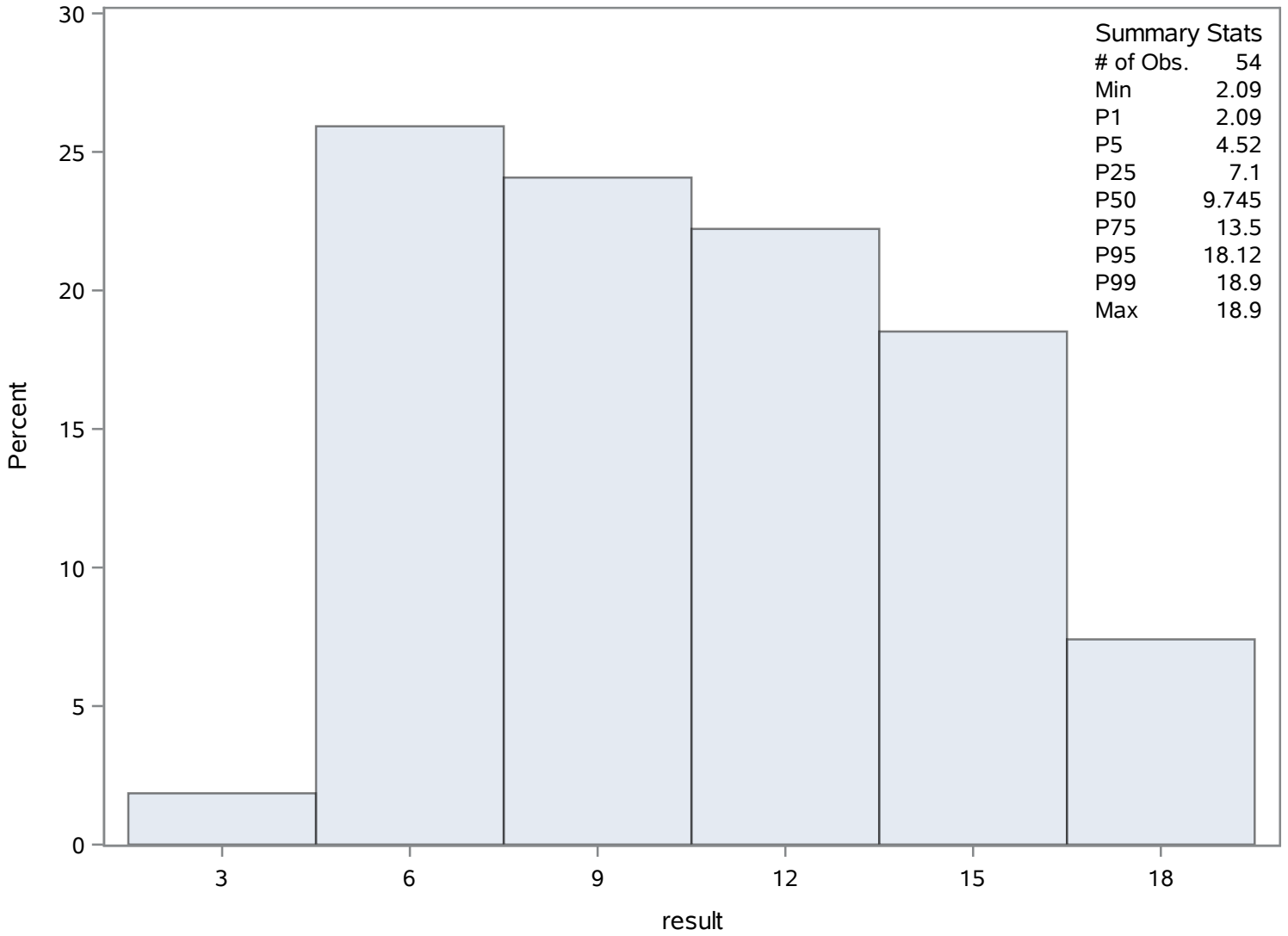
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.09	320	15.85	311
4.50	356	17.12	317
4.52	348	18.12	344
5.17	314	18.25	338
5.77	326	18.90	329

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	13.1256757	Sum Observations	485.65
Std Deviation	9.99838641	Variance	99.9677308
Skewness	2.56219675	Kurtosis	9.48854396
Uncorrected SS	9973.3227	Corrected SS	3598.83831
Coeff Variation	76.1742607	Std Error Mean	1.6437246

Basic Statistical Measures			
Location		Variability	
Mean	13.12568	Std Deviation	9.99839
Median	10.80000	Variance	99.96773
Mode	.	Range	54.40000
		Interquartile Range	8.22000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.985325	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	56.90
99%	56.90
95%	30.00
90%	24.60
75% Q3	16.00
50% Median	10.80
25% Q1	7.78
10%	3.01
5%	2.78
1%	2.50
0% Min	2.50

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Iron (Dissolved) ug/L

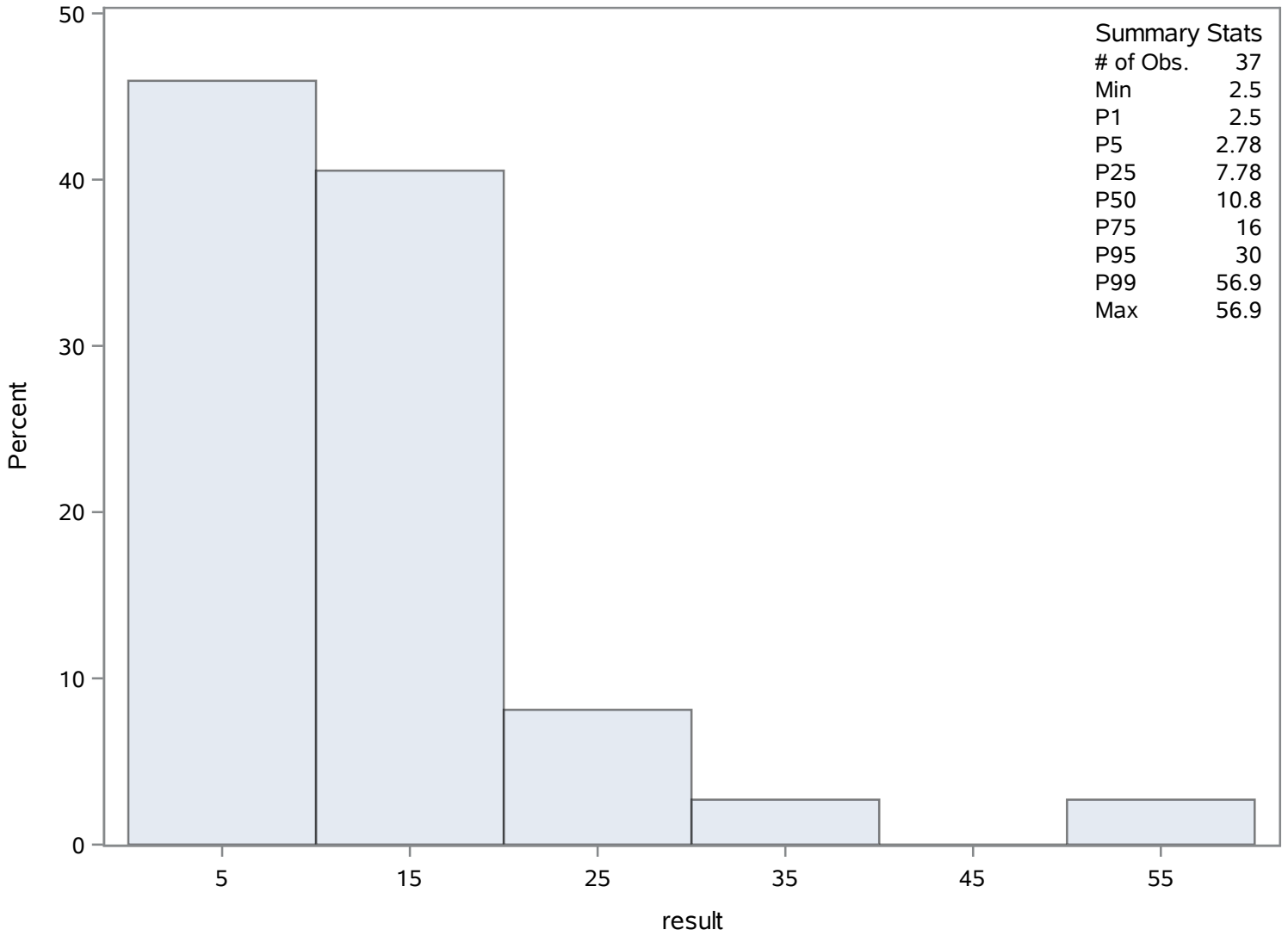
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.50	370	23.3	393
2.78	366	24.6	380
2.97	374	27.0	385
3.01	373	30.0	386
3.68	360	56.9	376

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	90.6111111	Sum Observations	2446.5
Std Deviation	14.7868011	Variance	218.649487
Skewness	-0.0981379	Kurtosis	-0.8423108
Uncorrected SS	227364.97	Corrected SS	5684.88667
Coeff Variation	16.3189712	Std Error Mean	2.8457212

Basic Statistical Measures			
Location		Variability	
Mean	90.6111	Std Deviation	14.78680
Median	89.7000	Variance	218.64949
Mode	106.0000	Range	57.00000
		Interquartile Range	26.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	31.84118	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	118.0
99%	118.0
95%	111.0
90%	108.0
75% Q3	105.0
50% Median	89.7
25% Q1	79.0
10%	71.6
5%	66.5
1%	61.0
0% Min	61.0

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Magnesium (Dissolved) mg/L

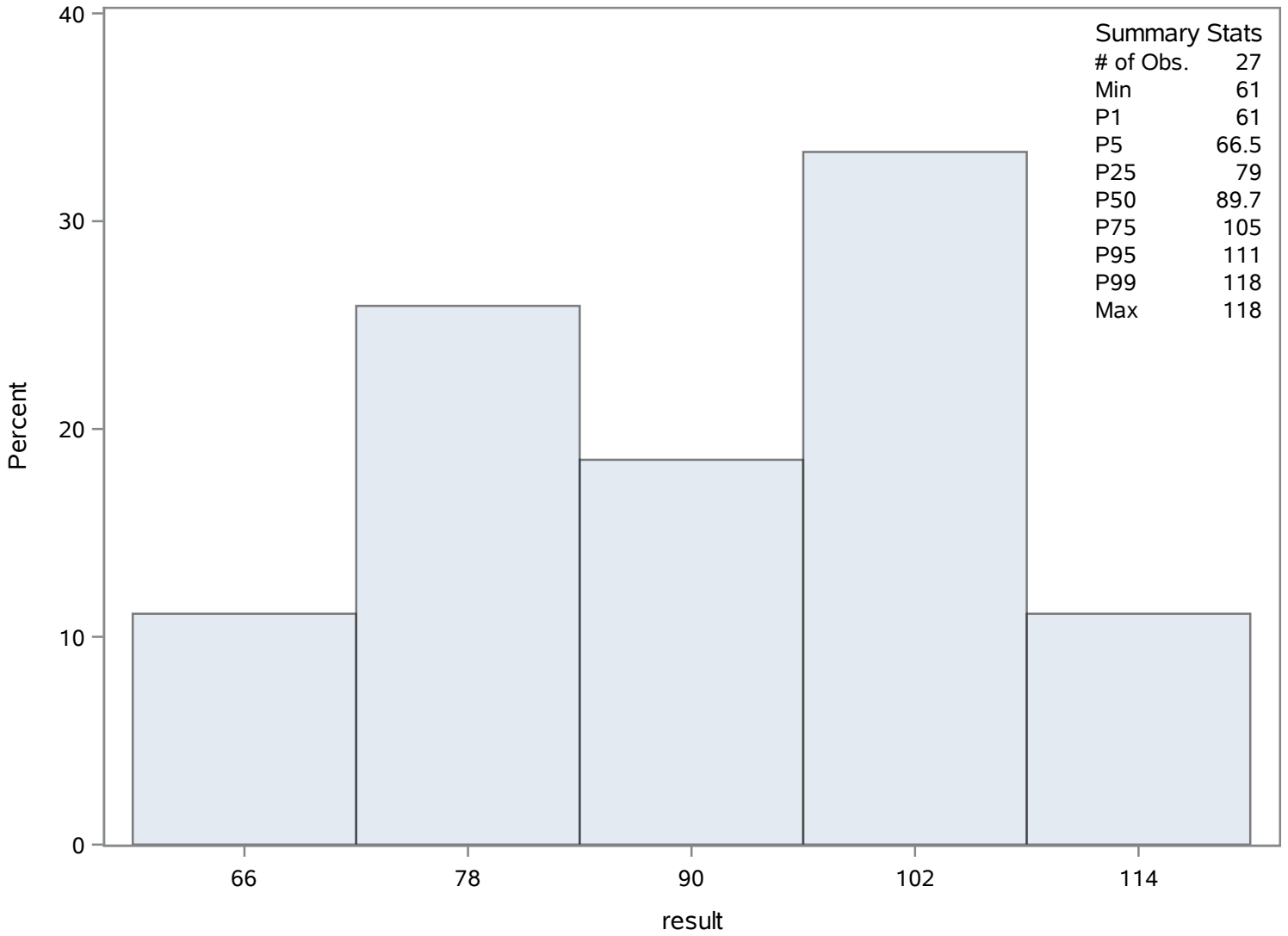
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
61.0	416	106	399
66.5	404	106	400
71.6	409	108	398
73.8	418	111	397
77.6	417	118	402

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	0.30077778	Sum Observations	16.242
Std Deviation	0.11355917	Variance	0.01289569
Skewness	-0.2738284	Kurtosis	-1.1238186
Uncorrected SS	5.568704	Corrected SS	0.68347133
Coeff Variation	37.7551735	Std Error Mean	0.01545345

Basic Statistical Measures			
Location		Variability	
Mean	0.300778	Std Deviation	0.11356
Median	0.304500	Variance	0.01290
Mode	0.423000	Range	0.41800
		Interquartile Range	0.19600

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.46348	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.4800
99%	0.4800
95%	0.4430
90%	0.4320
75% Q3	0.4130
50% Median	0.3045
25% Q1	0.2170
10%	0.1320
5%	0.1170

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.0620
0% Min	0.0620

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.062	452	0.441	451
0.115	447	0.442	471
0.117	465	0.443	439
0.121	442	0.461	459
0.125	443	0.480	454

Chassahowitzka River - Fixed Station

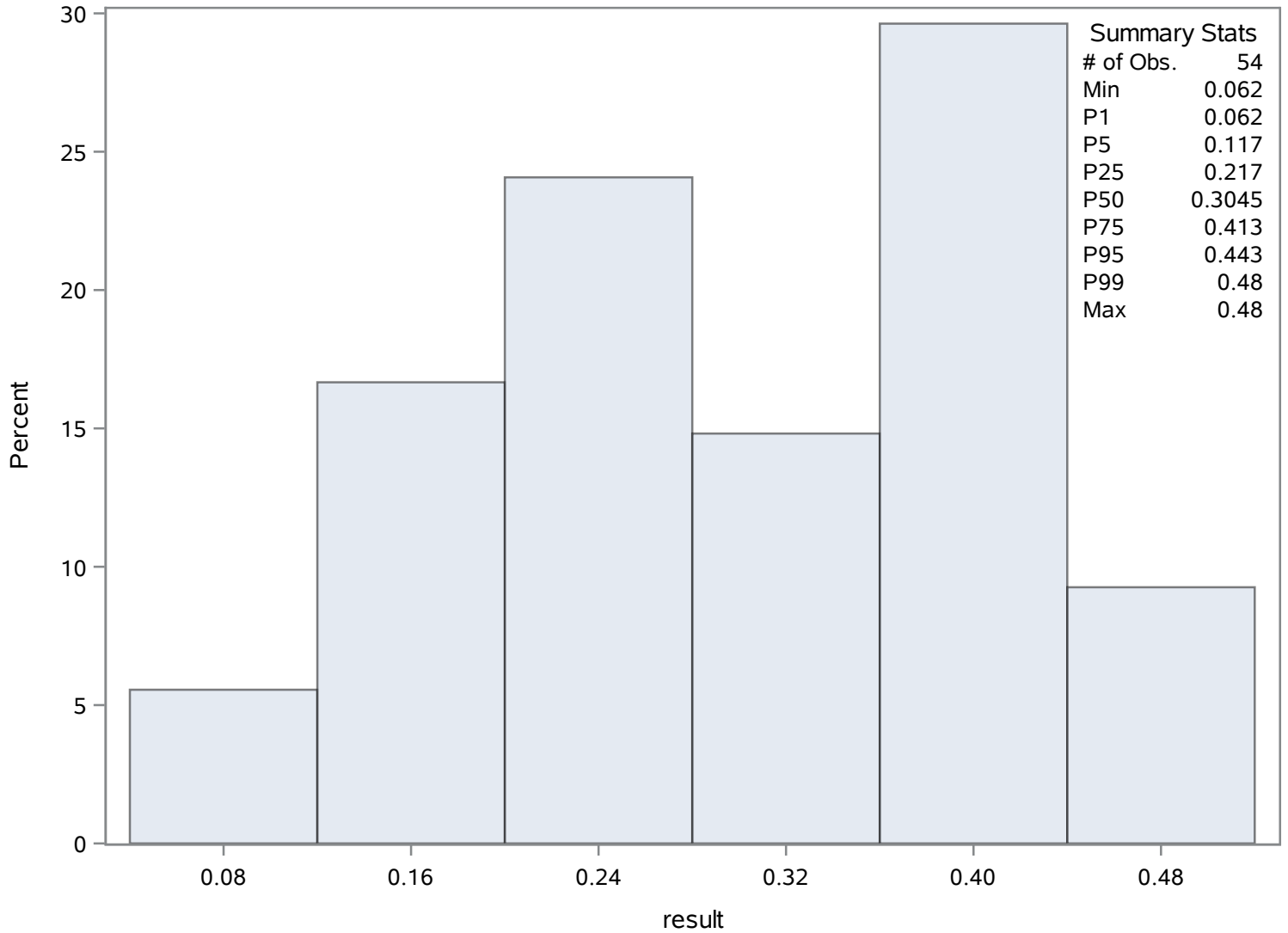
Source: Coastal Rivers

Chassahowitzka River CV 1

Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	0.00672727	Sum Observations	0.37
Std Deviation	0.00218119	Variance	4.75758E-6
Skewness	1.05245342	Kurtosis	0.73007298
Uncorrected SS	0.002746	Corrected SS	0.00025691
Coeff Variation	32.4230467	Std Error Mean	0.00029411

Basic Statistical Measures			
Location		Variability	
Mean	0.006727	Std Deviation	0.00218
Median	0.006000	Variance	4.75758E-6
Mode	0.005000	Range	0.00900
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	22.87323	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.013
99%	0.013
95%	0.011
90%	0.009
75% Q3	0.008
50% Median	0.006
25% Q1	0.005
10%	0.005
5%	0.004
1%	0.004
0% Min	0.004

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrite (N) (Total) mg/L

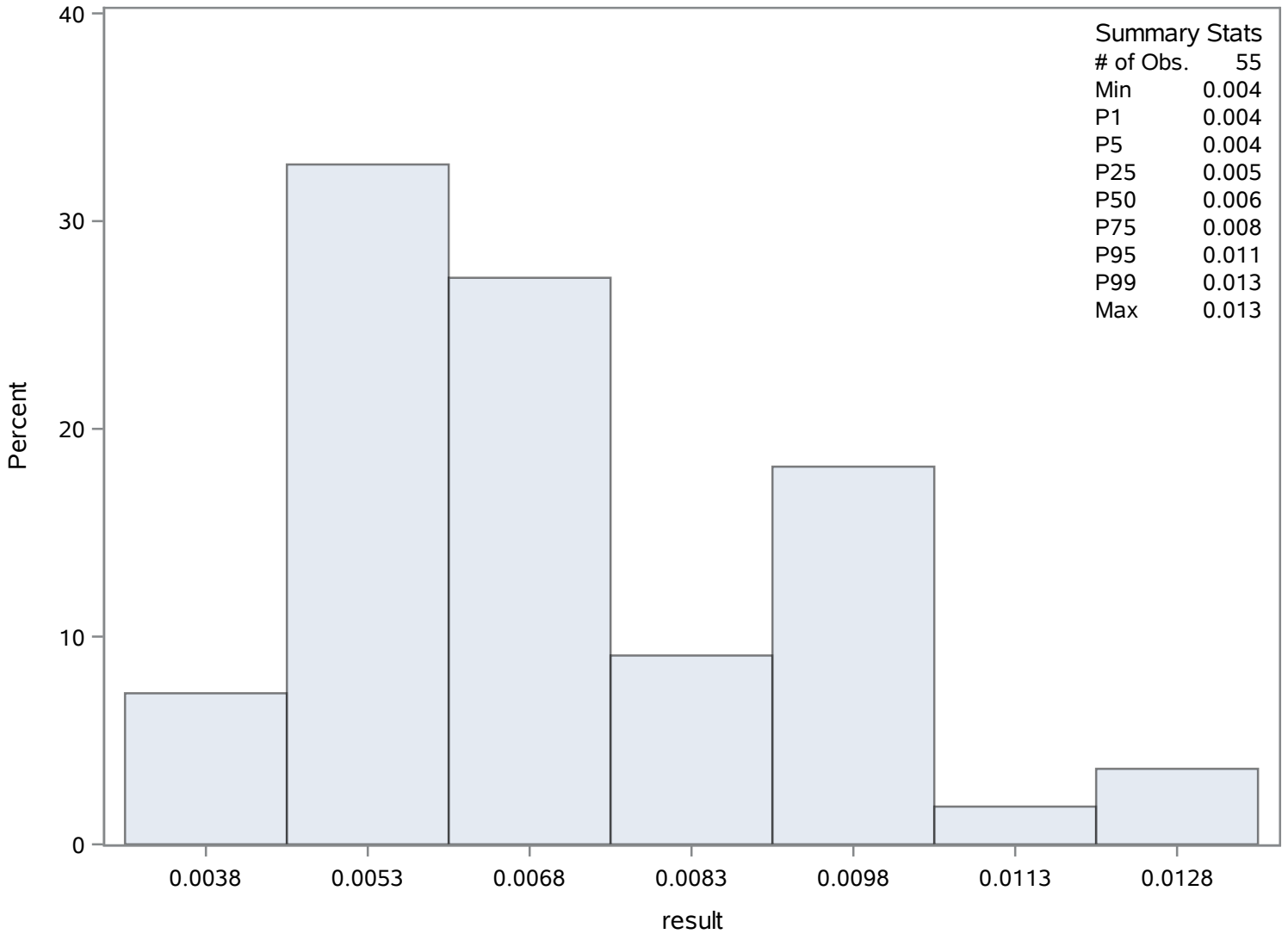
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	526	0.010	480
0.004	523	0.010	504
0.004	522	0.011	524
0.004	506	0.013	498
0.005	525	0.013	508

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	0.43241379	Sum Observations	25.08
Std Deviation	0.12592549	Variance	0.01585723
Skewness	-0.0134131	Kurtosis	-0.2554547
Uncorrected SS	11.7488	Corrected SS	0.90386207
Coeff Variation	29.121525	Std Error Mean	0.01653483

Basic Statistical Measures			
Location		Variability	
Mean	0.432414	Std Deviation	0.12593
Median	0.460000	Variance	0.01586
Mode	0.460000	Range	0.57000
		Interquartile Range	0.18000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.1517	Pr > t 	<.0001
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.74
99%	0.74
95%	0.63
90%	0.59
75% Q3	0.51
50% Median	0.46
25% Q1	0.33
10%	0.25
5%	0.21
1%	0.17
0% Min	0.17

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

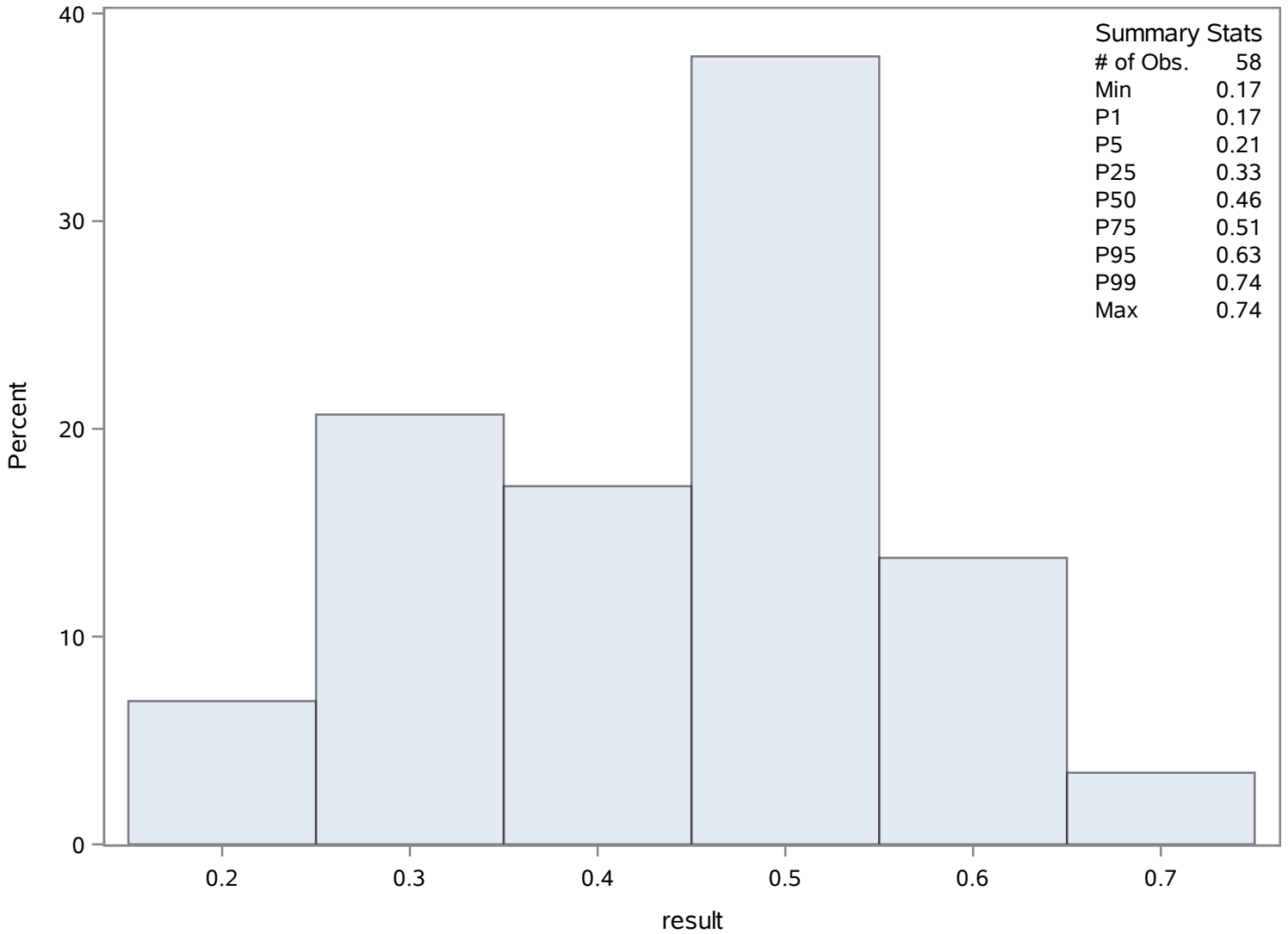
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.17	560	0.59	546
0.20	554	0.59	552
0.21	565	0.63	537
0.23	573	0.71	538
0.25	582	0.74	551

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	56	Sum Weights	56
Mean	0.00994643	Sum Observations	0.557
Std Deviation	0.00400645	Variance	0.00001605
Skewness	0.07414652	Kurtosis	-0.9648084
Uncorrected SS	0.006423	Corrected SS	0.00088284
Coeff Variation	40.2802644	Std Error Mean	0.00053538

Basic Statistical Measures			
Location		Variability	
Mean	0.009946	Std Deviation	0.00401
Median	0.010000	Variance	0.0000161
Mode	0.010000	Range	0.01500
		Interquartile Range	0.00700

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.57812	Pr > t 	<.0001
Sign	M	28	Pr >= M 	<.0001
Signed Rank	S	798	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.019
99%	0.019
95%	0.016
90%	0.015
75% Q3	0.013
50% Median	0.010
25% Q1	0.006
10%	0.005
5%	0.004
1%	0.004
0% Min	0.004

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Orthophosphate (P) (Dissolved) mg/L

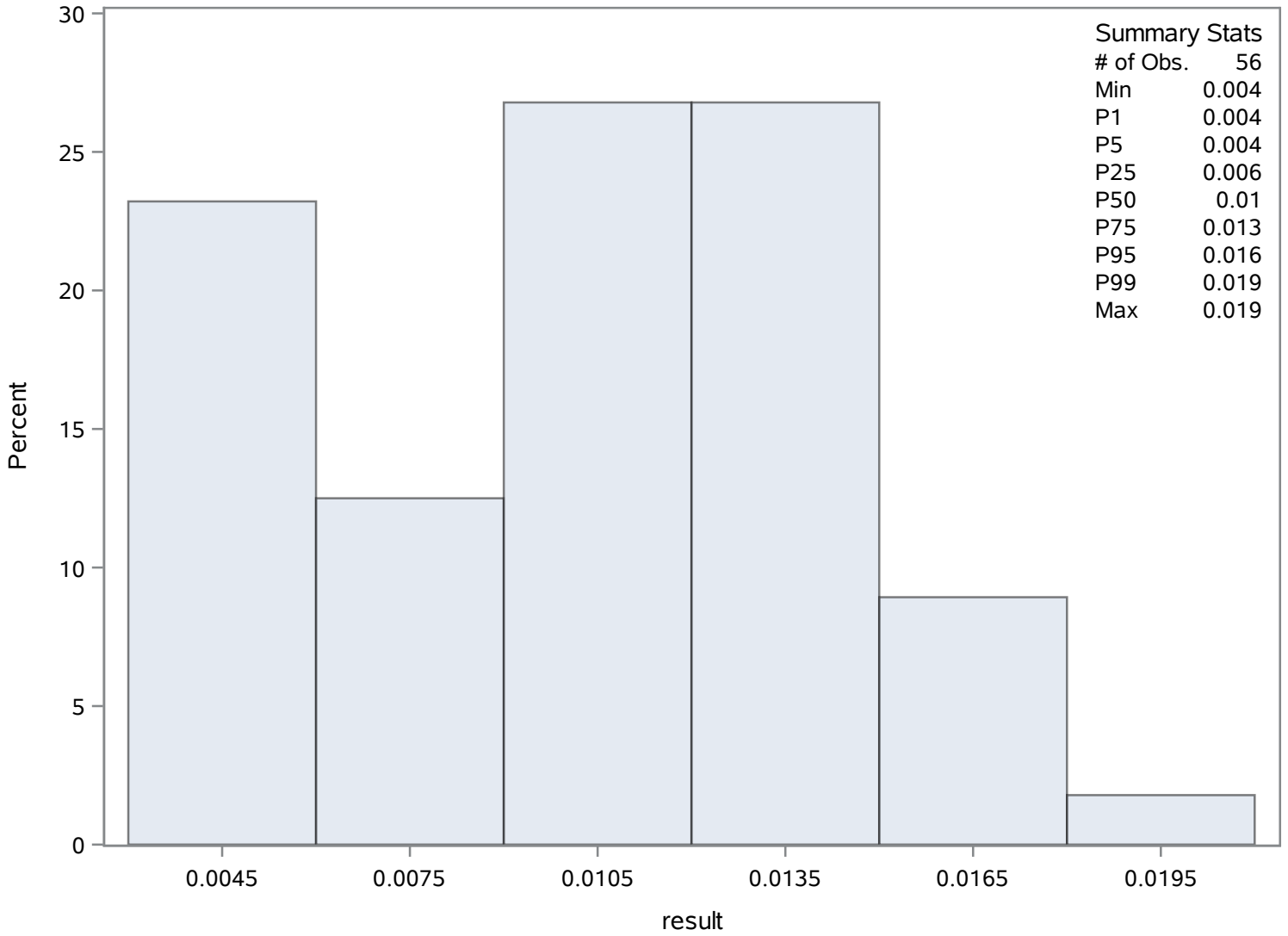
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	642	0.016	620
0.004	638	0.016	632
0.004	637	0.016	635
0.004	633	0.017	630
0.004	625	0.019	590

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	2.89722222	Sum Observations	156.45
Std Deviation	2.80104119	Variance	7.84583176
Skewness	2.44015684	Kurtosis	6.38256921
Uncorrected SS	869.0995	Corrected SS	415.829083
Coeff Variation	96.6802329	Std Error Mean	0.38117343

Basic Statistical Measures			
Location		Variability	
Mean	2.897222	Std Deviation	2.80104
Median	1.885000	Variance	7.84583
Mode	1.000000	Range	12.93000
		Interquartile Range	2.55000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.600798	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.930
99%	13.930
95%	11.170
90%	5.500
75% Q3	3.630
50% Median	1.885
25% Q1	1.080
10%	1.000
5%	1.000
1%	1.000
0% Min	1.000

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phaeophytin (Total) ug/L

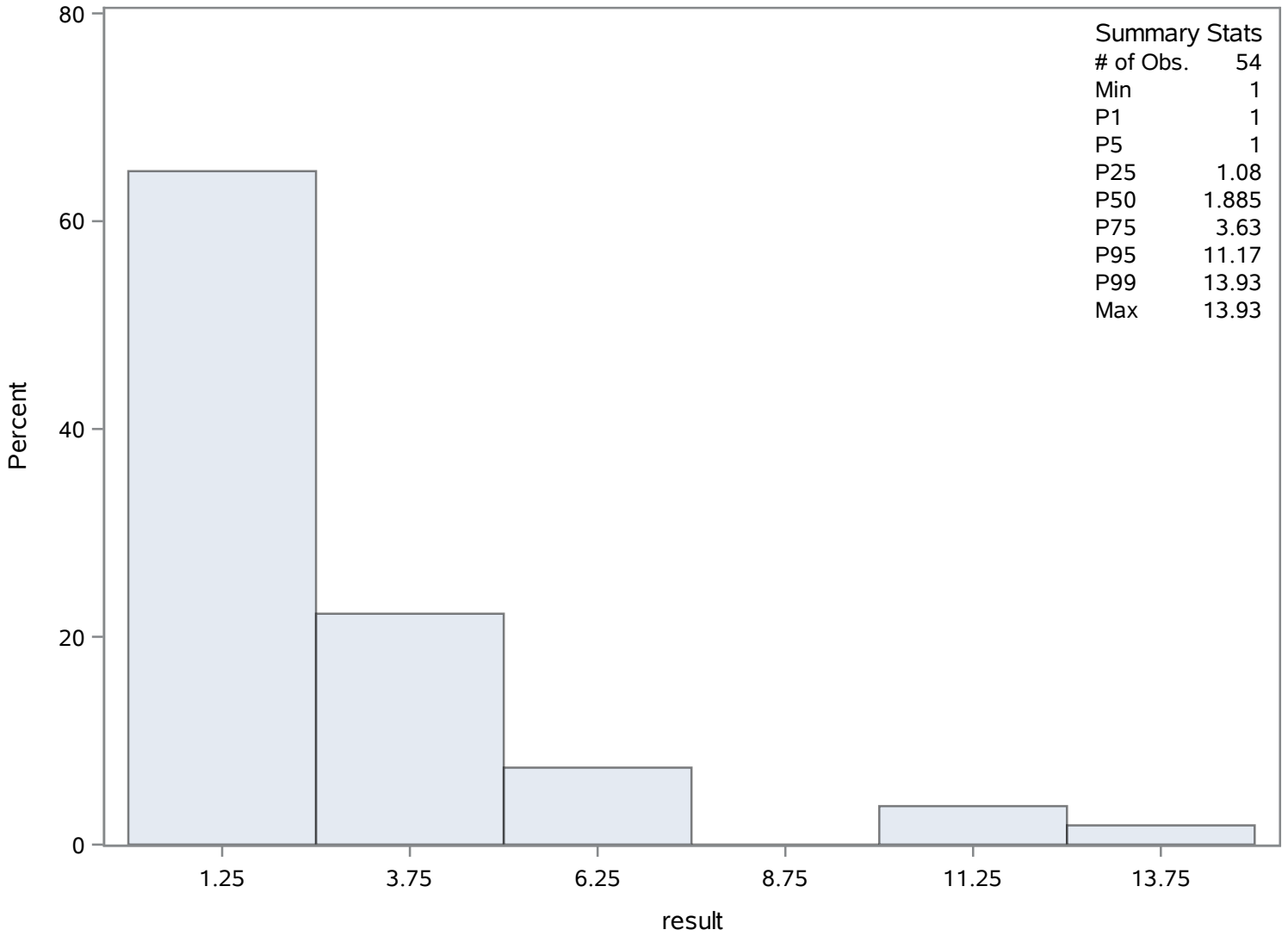
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	699	6.10	649
1	698	6.89	696
1	694	11.17	668
1	691	12.24	692
1	686	13.93	654

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	56	Sum Weights	56
Mean	0.02253571	Sum Observations	1.262
Std Deviation	0.01152225	Variance	0.00013276
Skewness	2.10393726	Kurtosis	5.58760317
Uncorrected SS	0.035742	Corrected SS	0.00730193
Coeff Variation	51.1288609	Std Error Mean	0.00153973

Basic Statistical Measures			
Location		Variability	
Mean	0.022536	Std Deviation	0.01152
Median	0.020000	Variance	0.0001328
Mode	0.021000	Range	0.06100
		Interquartile Range	0.00950

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.63619	Pr > t 	<.0001
Sign	M	28	Pr >= M 	<.0001
Signed Rank	S	798	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0710
99%	0.0710
95%	0.0480
90%	0.0380
75% Q3	0.0245
50% Median	0.0200
25% Q1	0.0150
10%	0.0120
5%	0.0110
1%	0.0100
0% Min	0.0100

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phosphorus- Total (Total) mg/L

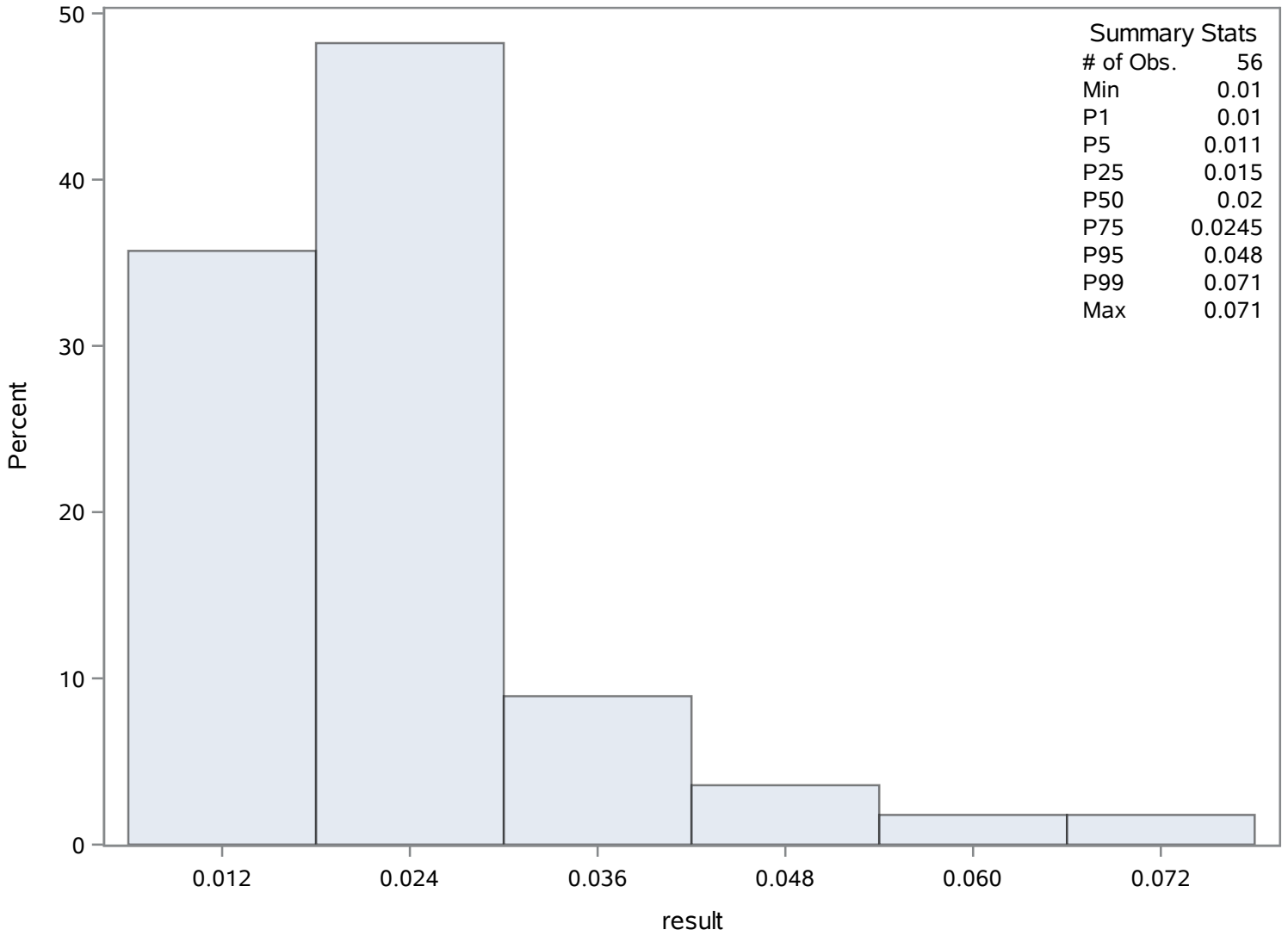
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	716	0.039	740
0.011	726	0.044	732
0.011	708	0.048	710
0.012	751	0.055	744
0.012	747	0.071	752

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	26.2481481	Sum Observations	708.7
Std Deviation	4.5788284	Variance	20.9656695
Skewness	-0.0485004	Kurtosis	-1.2246893
Uncorrected SS	19147.17	Corrected SS	545.107407
Coeff Variation	17.4443865	Std Error Mean	0.88119594

Basic Statistical Measures			
Location		Variability	
Mean	26.24815	Std Deviation	4.57883
Median	26.00000	Variance	20.96567
Mode	21.20000	Range	15.30000
		Interquartile Range	7.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.78696	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	33.7
99%	33.7
95%	33.1
90%	32.2
75% Q3	30.5
50% Median	26.0
25% Q1	23.0
10%	19.8
5%	19.1
1%	18.4
0% Min	18.4

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

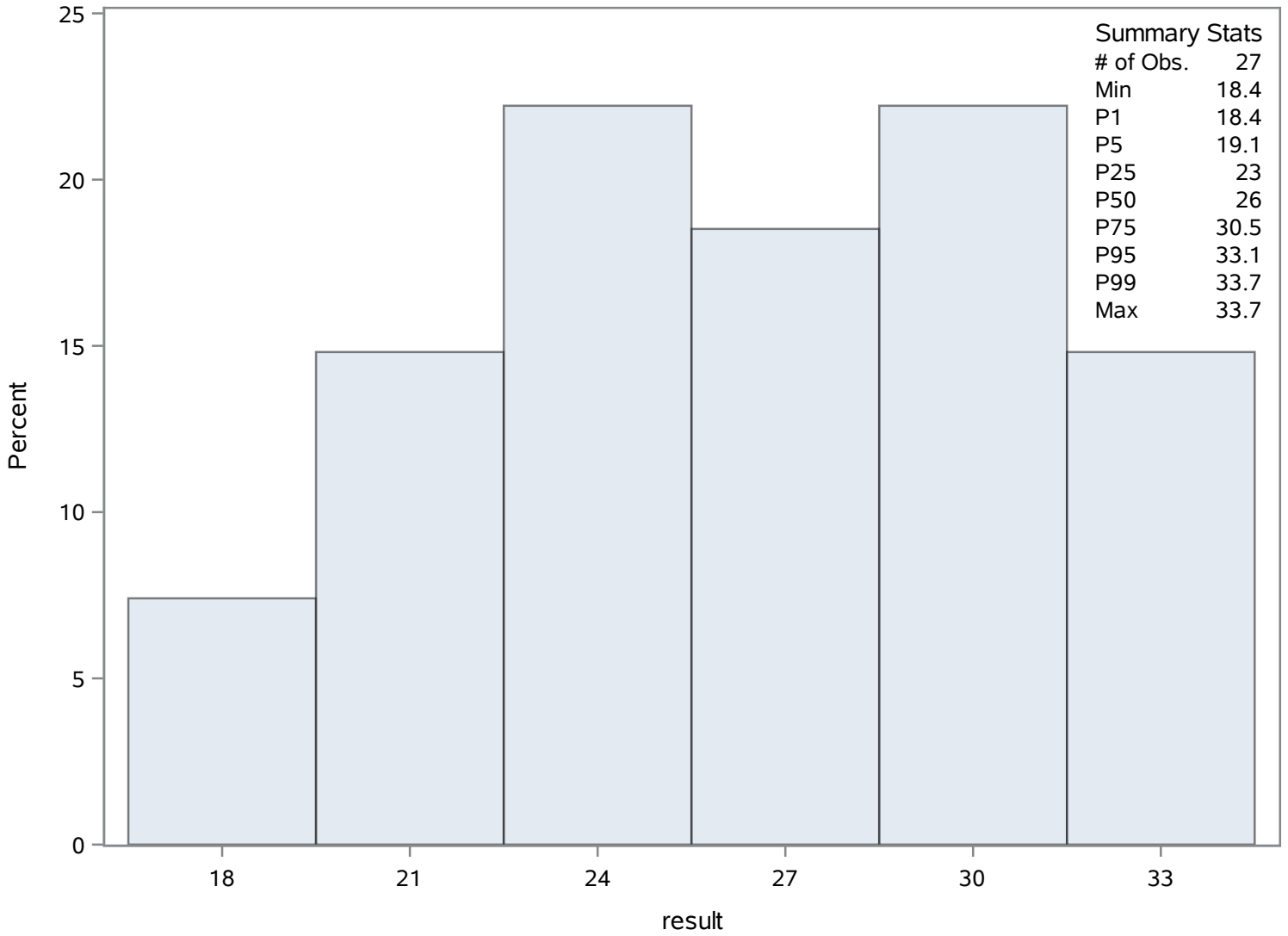
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.4	776	30.8	760
19.1	764	31.5	782
19.8	769	32.2	767
21.1	770	33.1	758
21.2	778	33.7	762

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 1
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	3.30181818	Sum Observations	181.6
Std Deviation	3.26870293	Variance	10.6844189
Skewness	2.78495771	Kurtosis	10.6366889
Uncorrected SS	1176.5688	Corrected SS	576.958618
Coeff Variation	98.9970602	Std Error Mean	0.44075181

Basic Statistical Measures			
Location		Variability	
Mean	3.301818	Std Deviation	3.26870
Median	2.320000	Variance	10.68442
Mode	1.040000	Range	18.90000
		Interquartile Range	3.45000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.491332	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	19.50
99%	19.50
95%	10.50
90%	6.50
75% Q3	4.55
50% Median	2.32
25% Q1	1.10
10%	0.92
5%	0.72

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

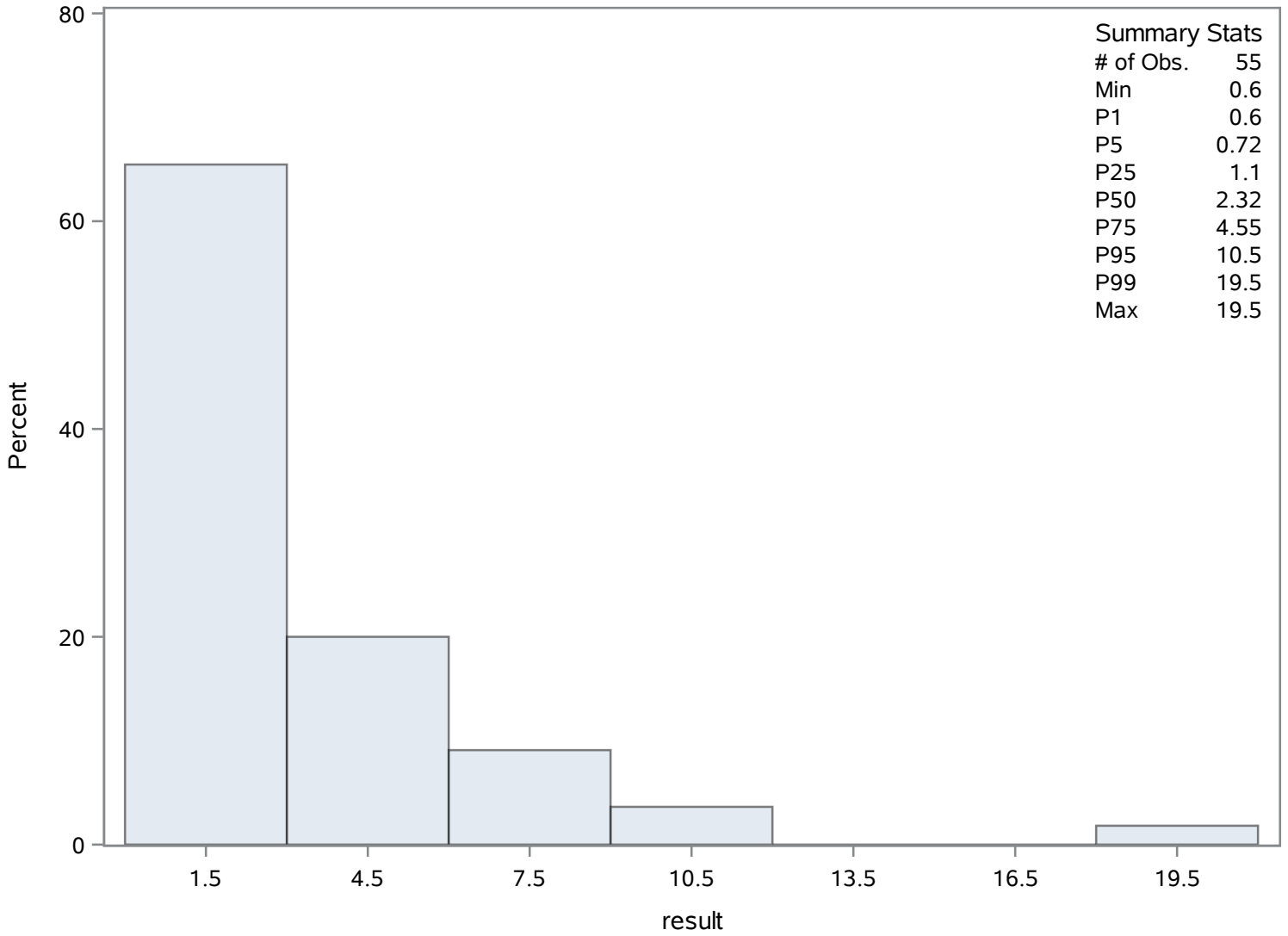
Quantiles (Definition 5)	
Level	Quantile
1%	0.60
0% Min	0.60

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	820	7.07	787
0.70	796	8.12	800
0.72	802	10.50	792
0.85	813	10.70	806
0.91	798	19.50	830

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	56	Sum Weights	56
Mean	2.10857143	Sum Observations	118.08
Std Deviation	2.04078722	Variance	4.16481247
Skewness	3.56830826	Kurtosis	17.7668156
Uncorrected SS	478.0448	Corrected SS	229.064686
Coeff Variation	96.7853016	Std Error Mean	0.27271166

Basic Statistical Measures			
Location		Variability	
Mean	2.108571	Std Deviation	2.04079
Median	1.415000	Variance	4.16481
Mode	1.100000	Range	13.22000
		Interquartile Range	1.85000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.731871	Pr > t 	<.0001
Sign	M	28	Pr >= M 	<.0001
Signed Rank	S	798	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.600
99%	13.600
95%	5.450
90%	4.220
75% Q3	2.740
50% Median	1.415
25% Q1	0.890
10%	0.720
5%	0.630
1%	0.380
0% Min	0.380

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Volatile (Total) mg/L

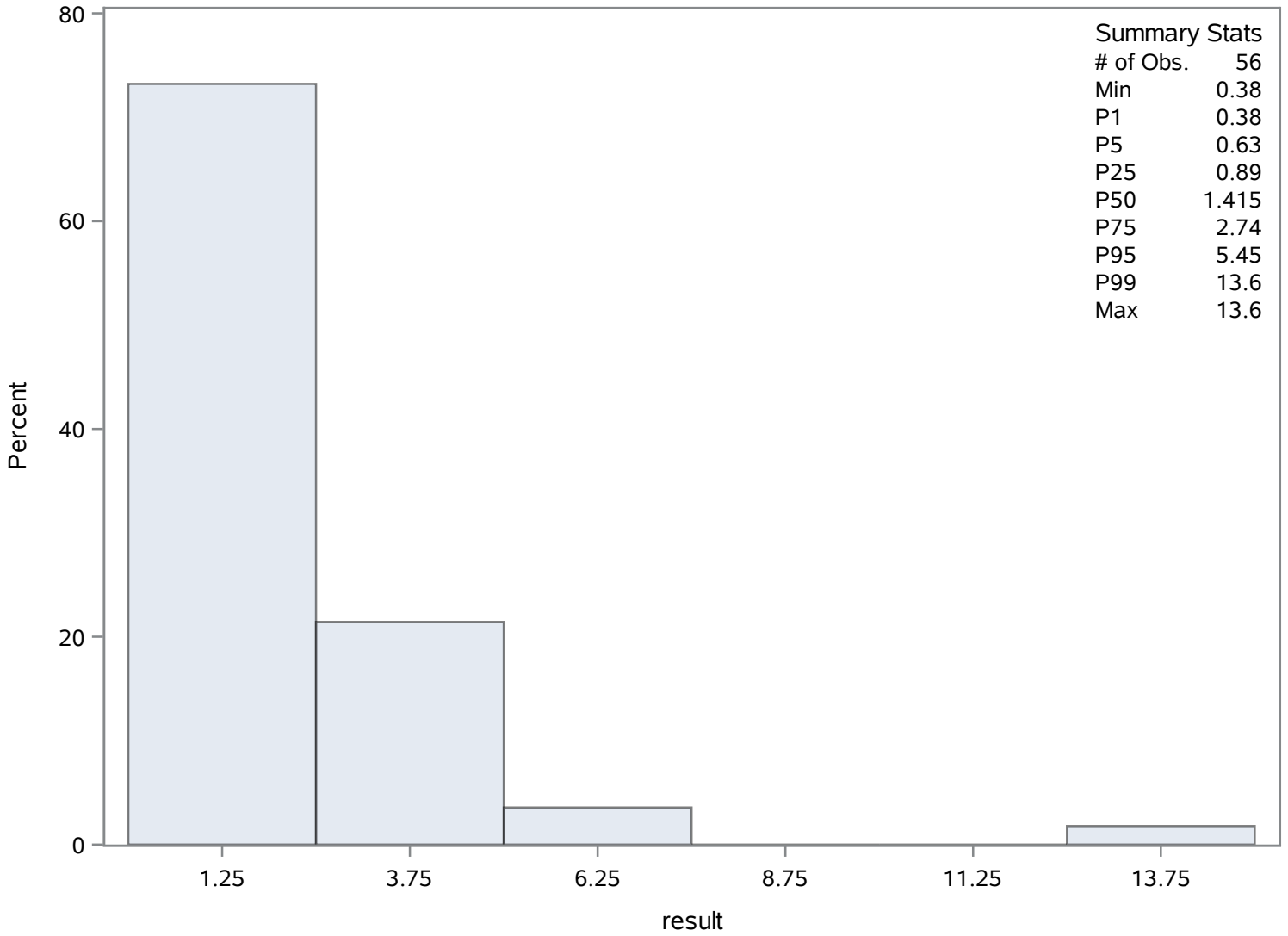
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.38	852	4.31	843
0.60	876	4.70	870
0.63	847	5.45	848
0.66	877	5.57	862
0.67	854	13.60	886

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	2.57487179	Sum Observations	100.42
Std Deviation	0.47022319	Variance	0.22110985
Skewness	0.27173305	Kurtosis	-0.1100871
Uncorrected SS	266.9708	Corrected SS	8.40217436
Coeff Variation	18.2620041	Std Error Mean	0.07529597

Basic Statistical Measures			
Location		Variability	
Mean	2.574872	Std Deviation	0.47022
Median	2.600000	Variance	0.22111
Mode	2.100000	Range	2.14000
		Interquartile Range	0.73000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	34.19667	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.82
99%	3.82
95%	3.30
90%	3.22
75% Q3	2.89
50% Median	2.60
25% Q1	2.16
10%	1.97
5%	1.82

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Salinity (Total) ppt

The UNIVARIATE Procedure
Variable: result

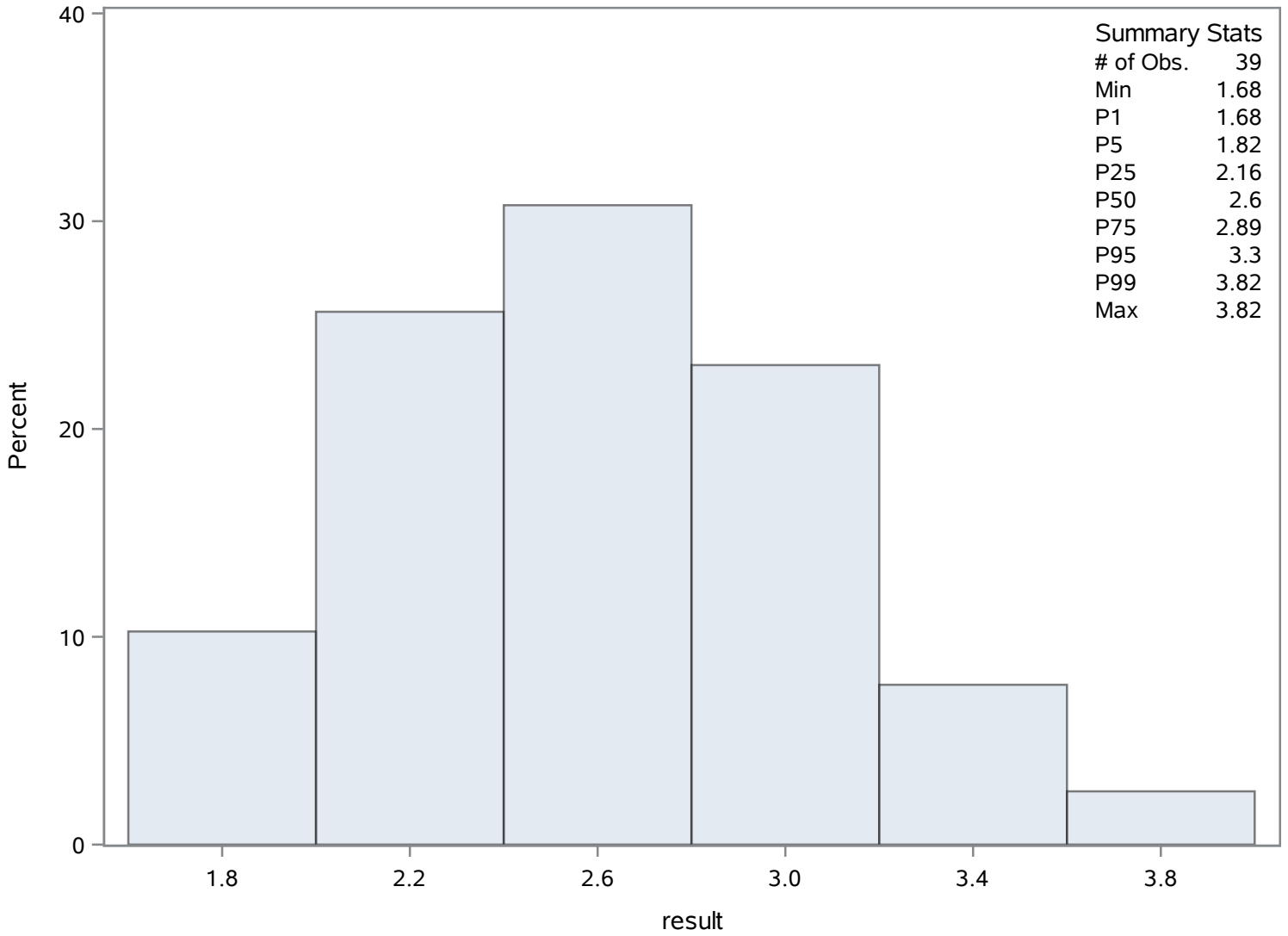
Quantiles (Definition 5)	
Level	Quantile
1%	1.68
0% Min	1.68

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.68	926	3.19	912
1.82	914	3.22	898
1.94	919	3.24	894
1.97	928	3.30	899
2.00	920	3.82	900

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Coastal Rivers

Chassahowitzka River CV 1

Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	51	Sum Weights	51
Mean	4.01956863	Sum Observations	204.998
Std Deviation	1.73220162	Variance	3.00052245
Skewness	0.51766536	Kurtosis	0.75746135
Uncorrected SS	974.029652	Corrected SS	150.026123
Coeff Variation	43.0942168	Std Error Mean	0.24255674

Basic Statistical Measures			
Location		Variability	
Mean	4.019569	Std Deviation	1.73220
Median	3.960000	Variance	3.00052
Mode	3.960000	Range	8.50000
		Interquartile Range	2.37700

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.57166	Pr > t 	<.0001
Sign	M	25.5	Pr >= M 	<.0001
Signed Rank	S	663	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.450
99%	9.450
95%	7.163
90%	6.100
75% Q3	5.120
50% Median	3.960
25% Q1	2.743
10%	1.829
5%	1.219

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure
Variable: result

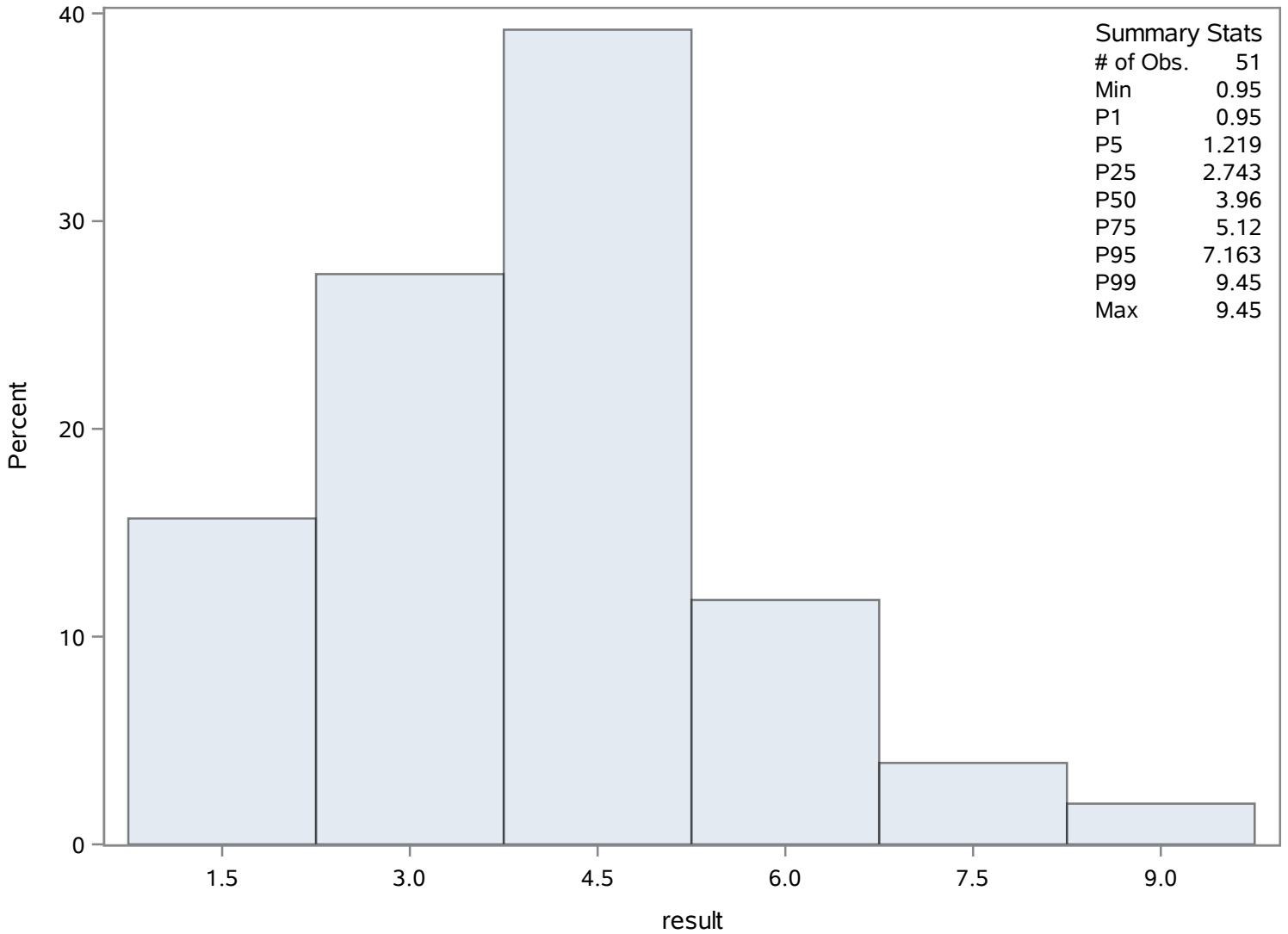
Quantiles (Definition 5)	
Level	Quantile
1%	0.950
0% Min	0.950

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.950	976	6.400	934
1.140	980	6.550	978
1.219	940	7.163	945
1.370	960	7.200	963
1.800	968	9.450	970

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	686.962963	Sum Observations	18548
Std Deviation	122.873444	Variance	15097.8832
Skewness	-0.0750181	Kurtosis	-0.7835197
Uncorrected SS	13134334	Corrected SS	392544.963
Coeff Variation	17.8864728	Std Error Mean	23.6470053

Basic Statistical Measures			
Location		Variability	
Mean	686.9630	Std Deviation	122.87344
Median	677.0000	Variance	15098
Mode	592.0000	Range	477.00000
		Interquartile Range	212.00000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	29.05074	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	924
99%	924
95%	864
90%	822
75% Q3	804
50% Median	677
25% Q1	592
10%	533
5%	479

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	447
0% Min	447

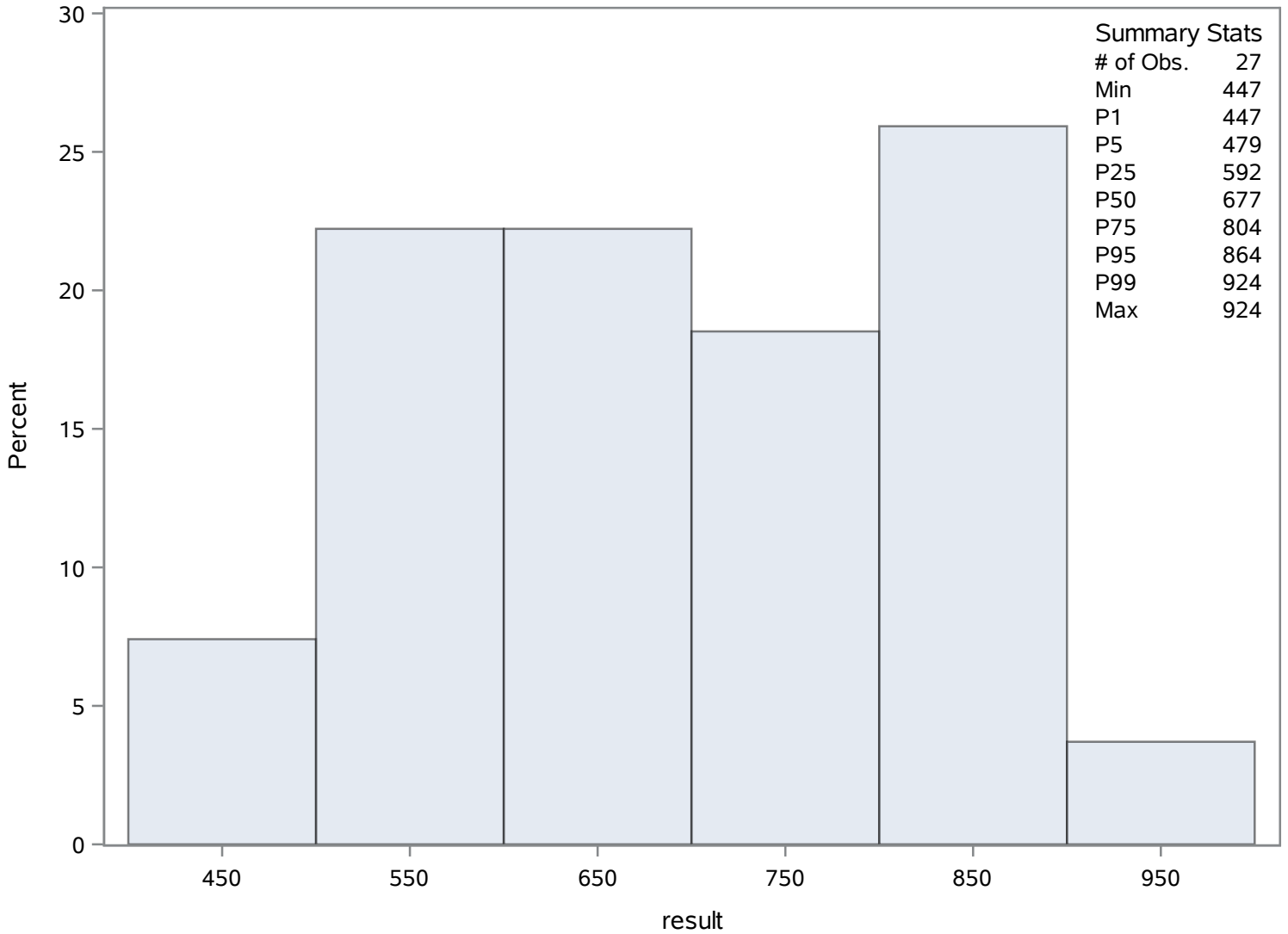
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
447	1004	811	987
479	992	818	1007
533	997	822	988
549	1006	864	985
574	998	924	990

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 1
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	4907.48148	Sum Observations	265004
Std Deviation	934.413886	Variance	873129.311
Skewness	0.3823287	Kurtosis	-0.1225877
Uncorrected SS	1346778076	Corrected SS	46275853.5
Coeff Variation	19.0405993	Std Error Mean	127.157624

Basic Statistical Measures			
Location		Variability	
Mean	4907.481	Std Deviation	934.41389
Median	4879.000	Variance	873129
Mode	5121.000	Range	4019
		Interquartile Range	1269

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	38.59369	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7229
99%	7229
95%	6847
90%	6066
75% Q3	5388
50% Median	4879
25% Q1	4119
10%	3730
5%	3415

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

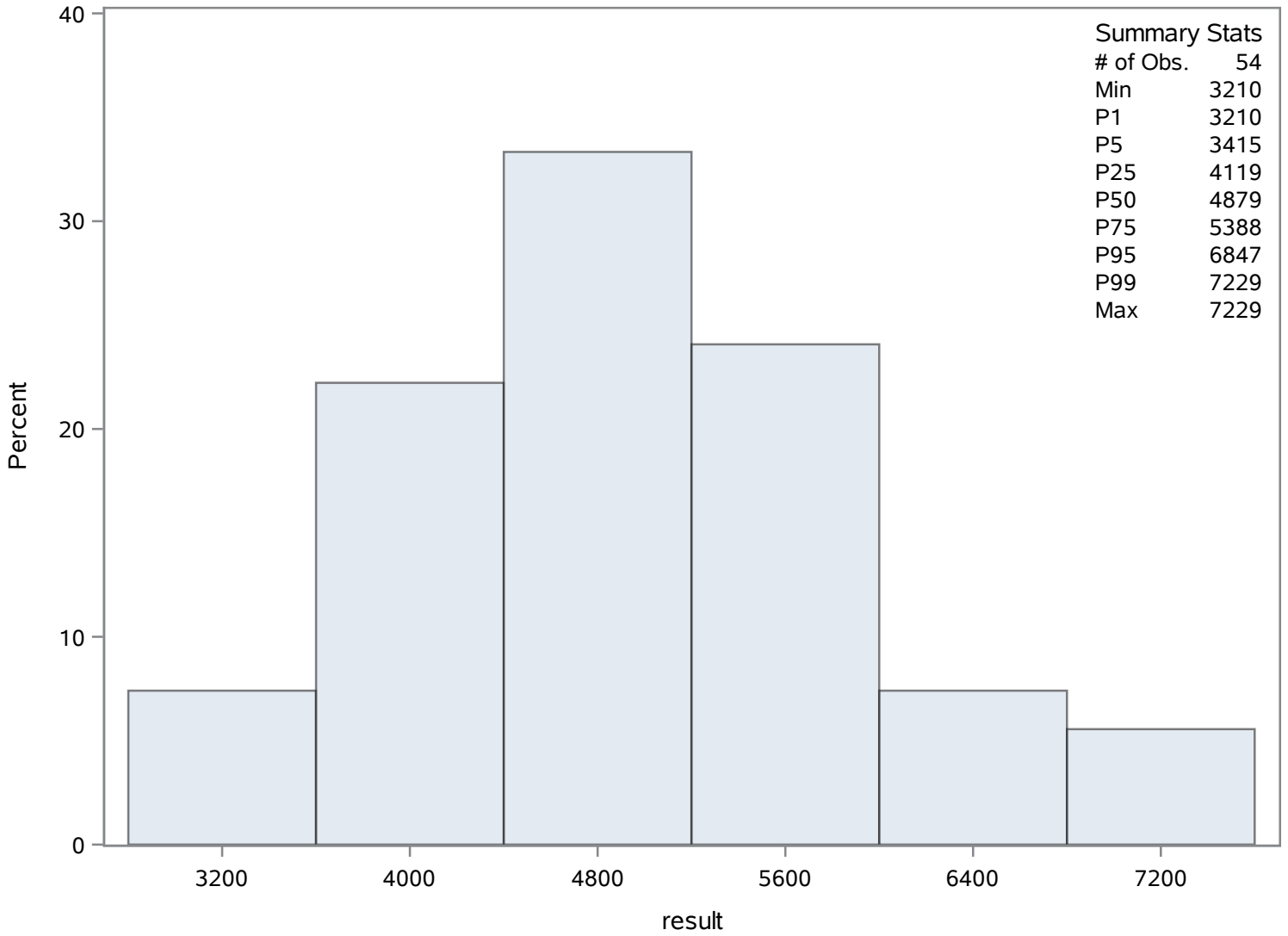
Quantiles (Definition 5)	
Level	Quantile
1%	3210
0% Min	3210

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3210	1058	6086	1031
3390	1012	6572	1019
3415	1011	6847	1020
3470	1046	6941	1032
3671	1051	7229	1013

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	24.0312963	Sum Observations	1297.69
Std Deviation	1.52729758	Variance	2.33263791
Skewness	-0.5412308	Kurtosis	0.00288375
Uncorrected SS	31308.8027	Corrected SS	123.629809
Coeff Variation	6.35545235	Std Error Mean	0.20783888

Basic Statistical Measures			
Location		Variability	
Mean	24.03130	Std Deviation	1.52730
Median	23.91000	Variance	2.33264
Mode	22.98000	Range	6.80000
		Interquartile Range	2.18000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	115.6246	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.60
99%	26.60
95%	26.19
90%	25.87
75% Q3	25.21
50% Median	23.91
25% Q1	23.03
10%	21.99
5%	20.90

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

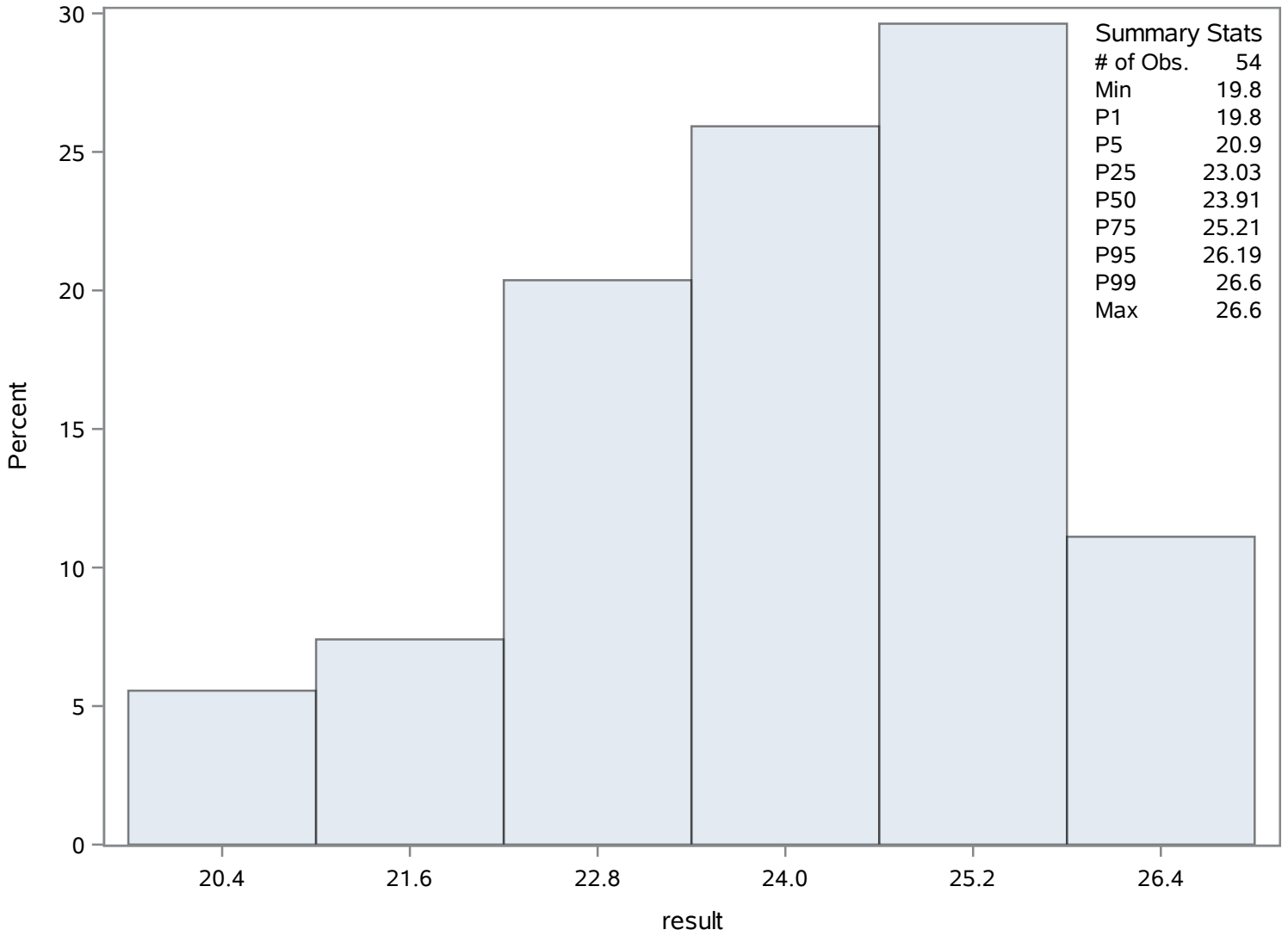
Quantiles (Definition 5)	
Level	Quantile
1%	19.80
0% Min	19.80

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19.80	1093	25.89	1107
20.68	1105	26.10	1111
20.90	1113	26.19	1085
21.79	1109	26.31	1091
21.96	1088	26.60	1115

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	1.47472727	Sum Observations	81.11
Std Deviation	1.3376816	Variance	1.78939205
Skewness	1.2824507	Kurtosis	1.3107227
Uncorrected SS	216.2423	Corrected SS	96.6271709
Coeff Variation	90.7070495	Std Error Mean	0.18037295

Basic Statistical Measures			
Location		Variability	
Mean	1.474727	Std Deviation	1.33768
Median	1.170000	Variance	1.78939
Mode	0.130000	Range	5.18000
		Interquartile Range	1.66000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.175989	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.27
99%	5.27
95%	4.88
90%	3.23
75% Q3	2.15
50% Median	1.17
25% Q1	0.49
10%	0.13
5%	0.13
1%	0.09
0% Min	0.09

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Turbidity (Total) NTU

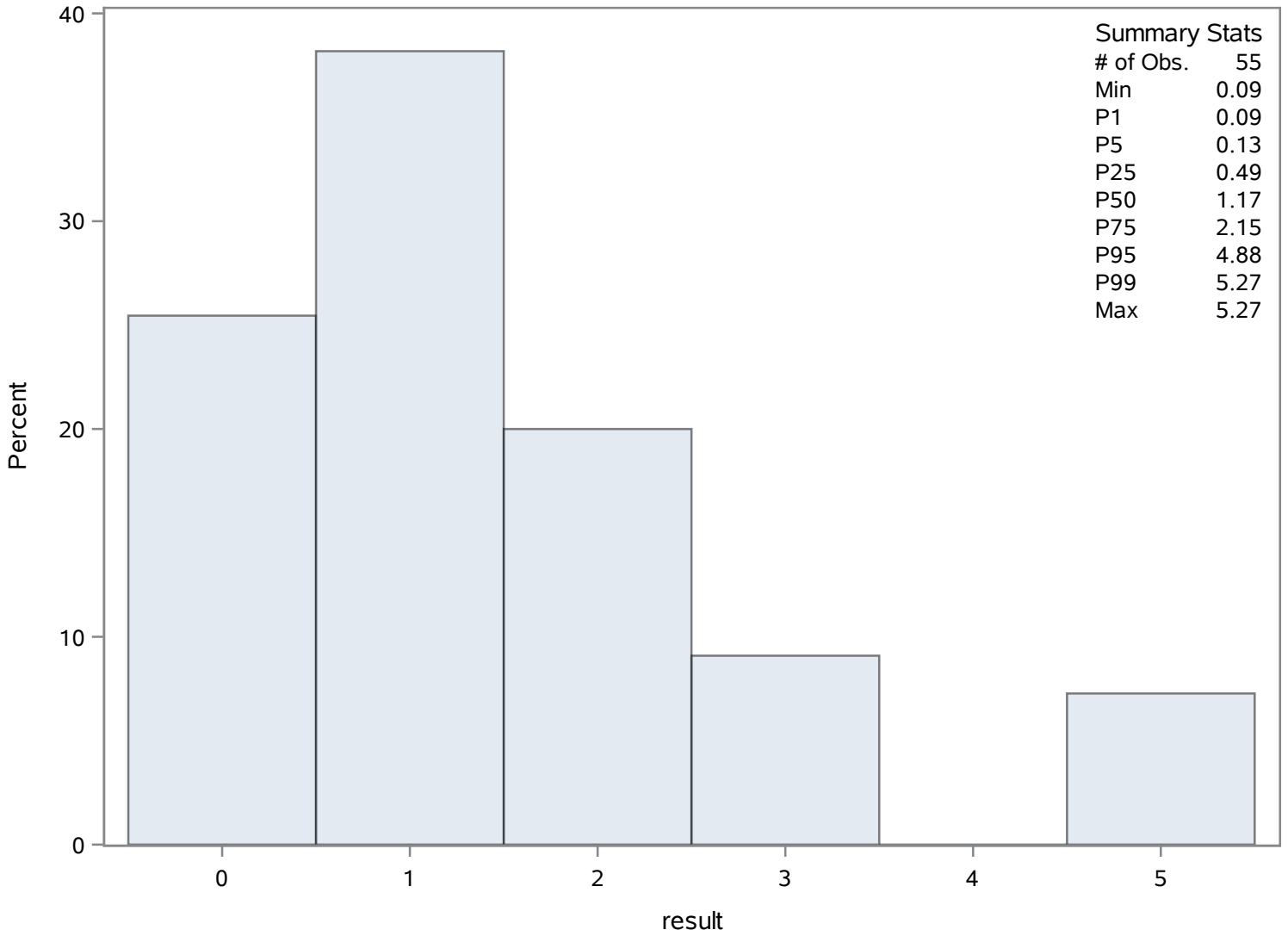
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.09	1119	3.37	1137
0.13	1153	4.81	1142
0.13	1148	4.88	1123
0.13	1147	4.95	1128
0.13	1144	5.27	1150

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	7.89907407	Sum Observations	426.55
Std Deviation	0.39961429	Variance	0.15969158
Skewness	0.1899989	Kurtosis	-1.1672446
Uncorrected SS	3377.8137	Corrected SS	8.4636537
Coeff Variation	5.05900166	Std Error Mean	0.05438062

Basic Statistical Measures			
Location		Variability	
Mean	7.899074	Std Deviation	0.39961
Median	7.850000	Variance	0.15969
Mode	7.370000	Range	1.46000
		Interquartile Range	0.67000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	145.2553	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.65
99%	8.65
95%	8.52
90%	8.46
75% Q3	8.24
50% Median	7.85
25% Q1	7.57
10%	7.38
5%	7.35

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

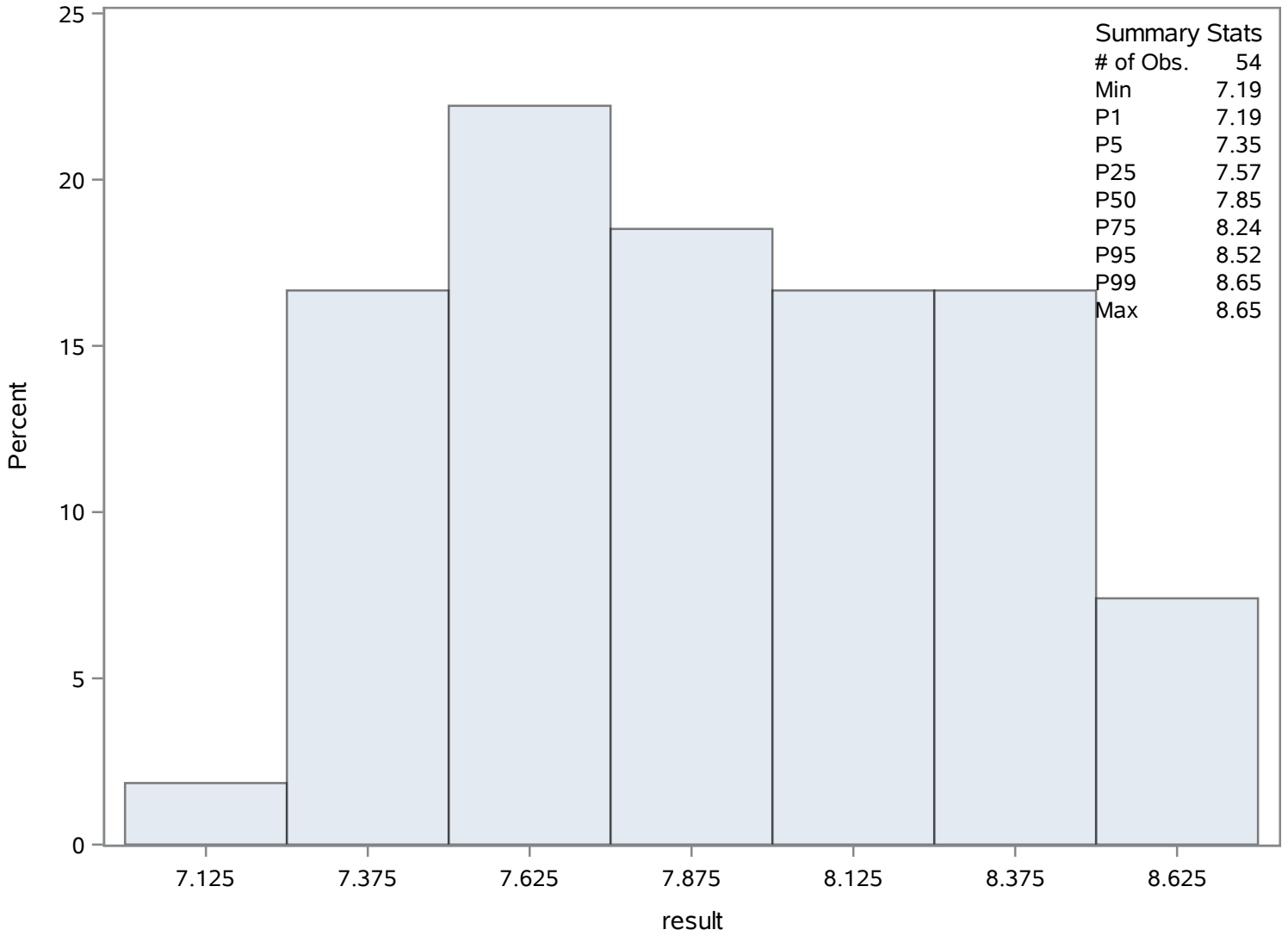
Quantiles (Definition 5)	
Level	Quantile
1%	7.19
0% Min	7.19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.19	1183	8.49	1227
7.30	1217	8.50	1215
7.35	1182	8.52	1211
7.37	1200	8.53	1192
7.37	1189	8.65	1186

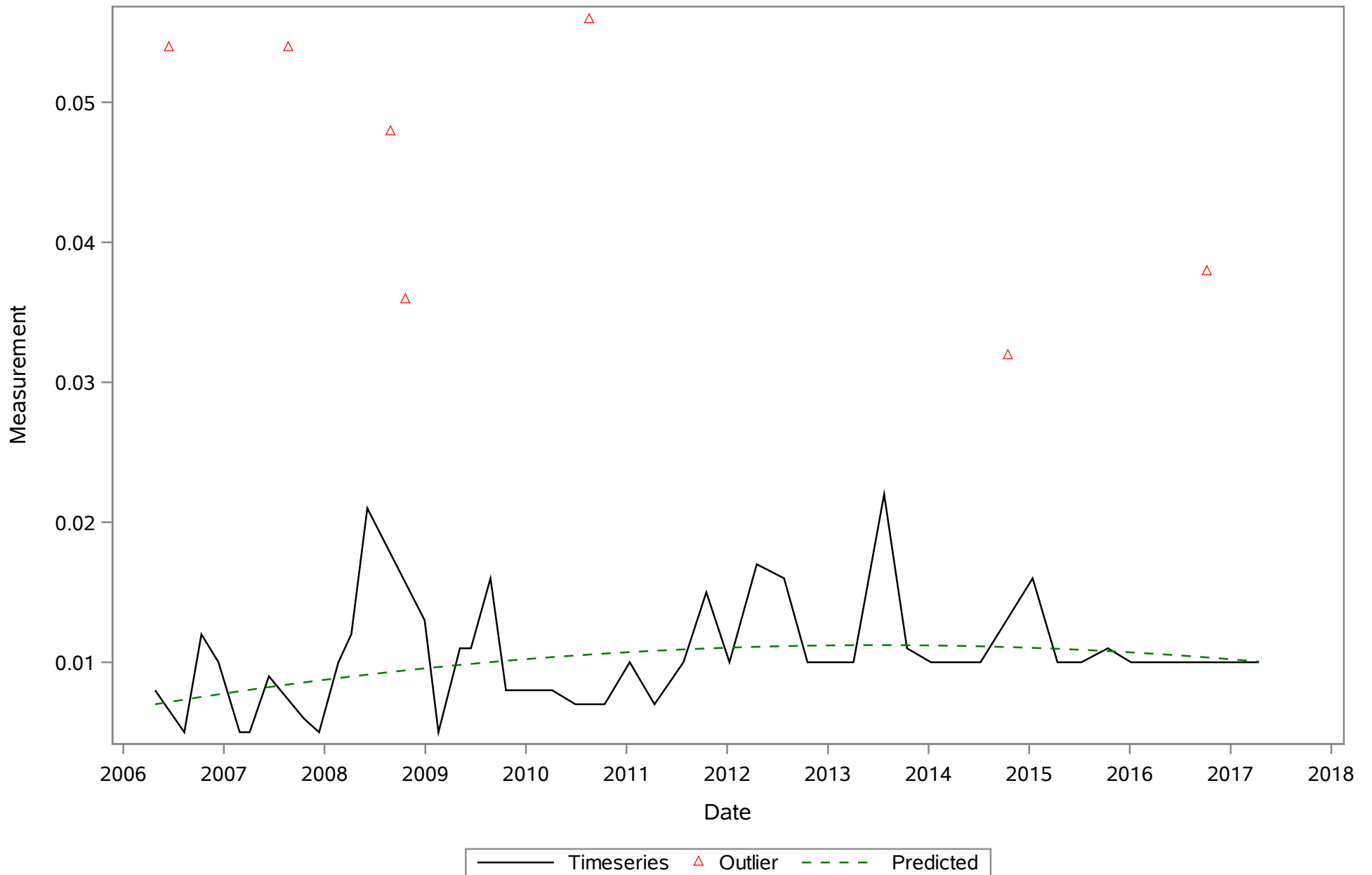
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
pH (Total) SU

The UNIVARIATE Procedure

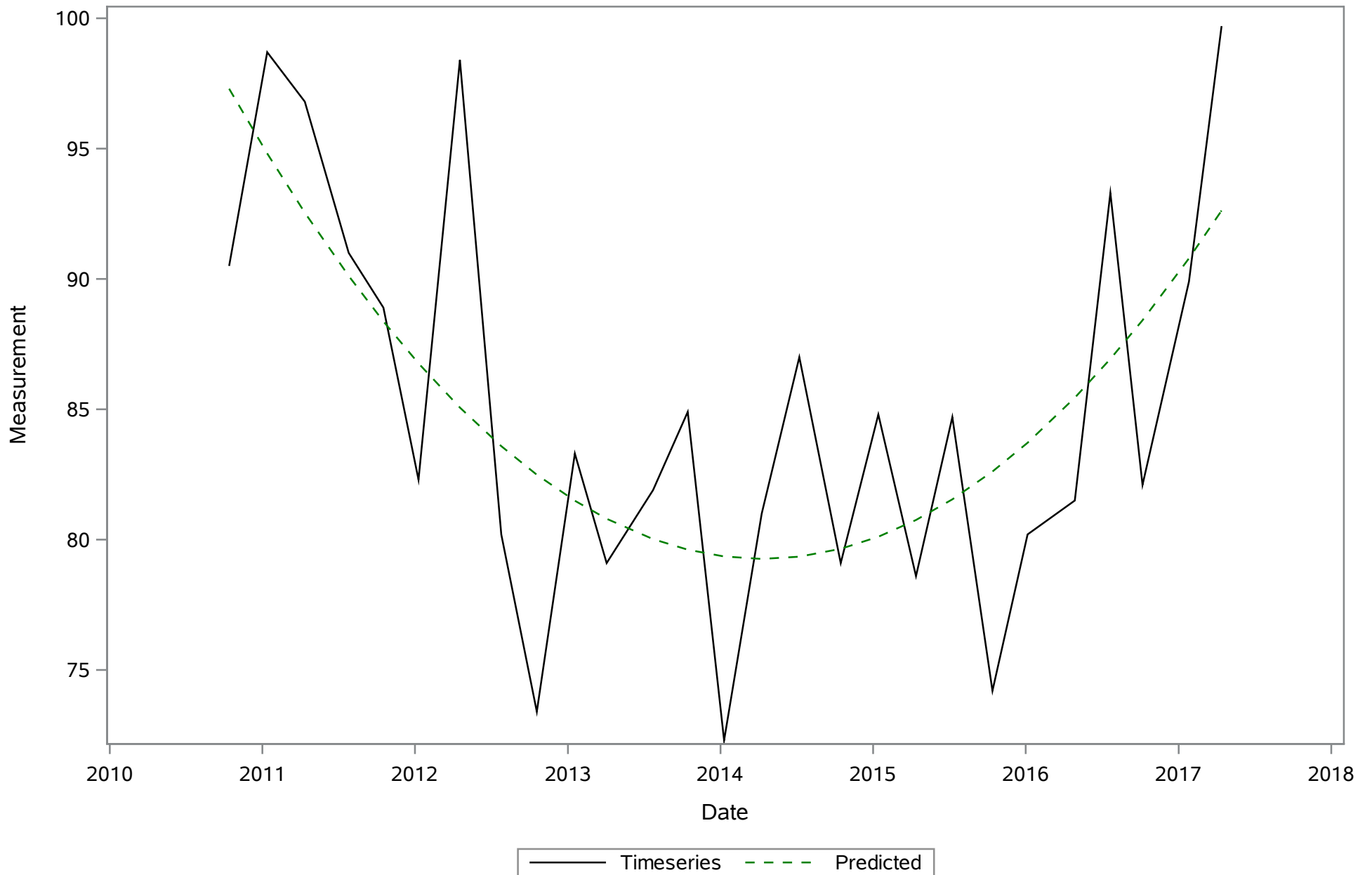
Distribution of result



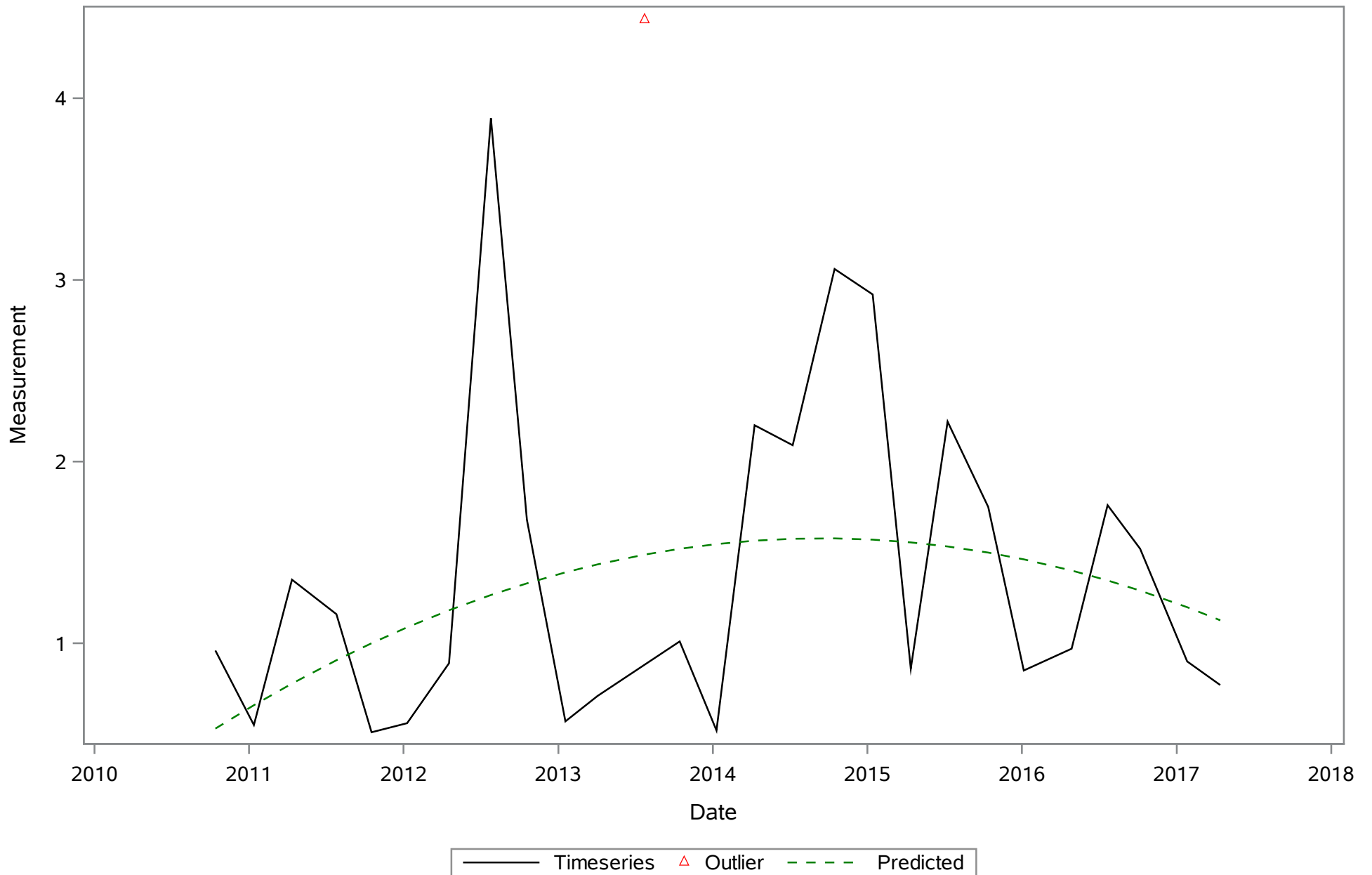
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Ammonia (N) (Total) mg/L



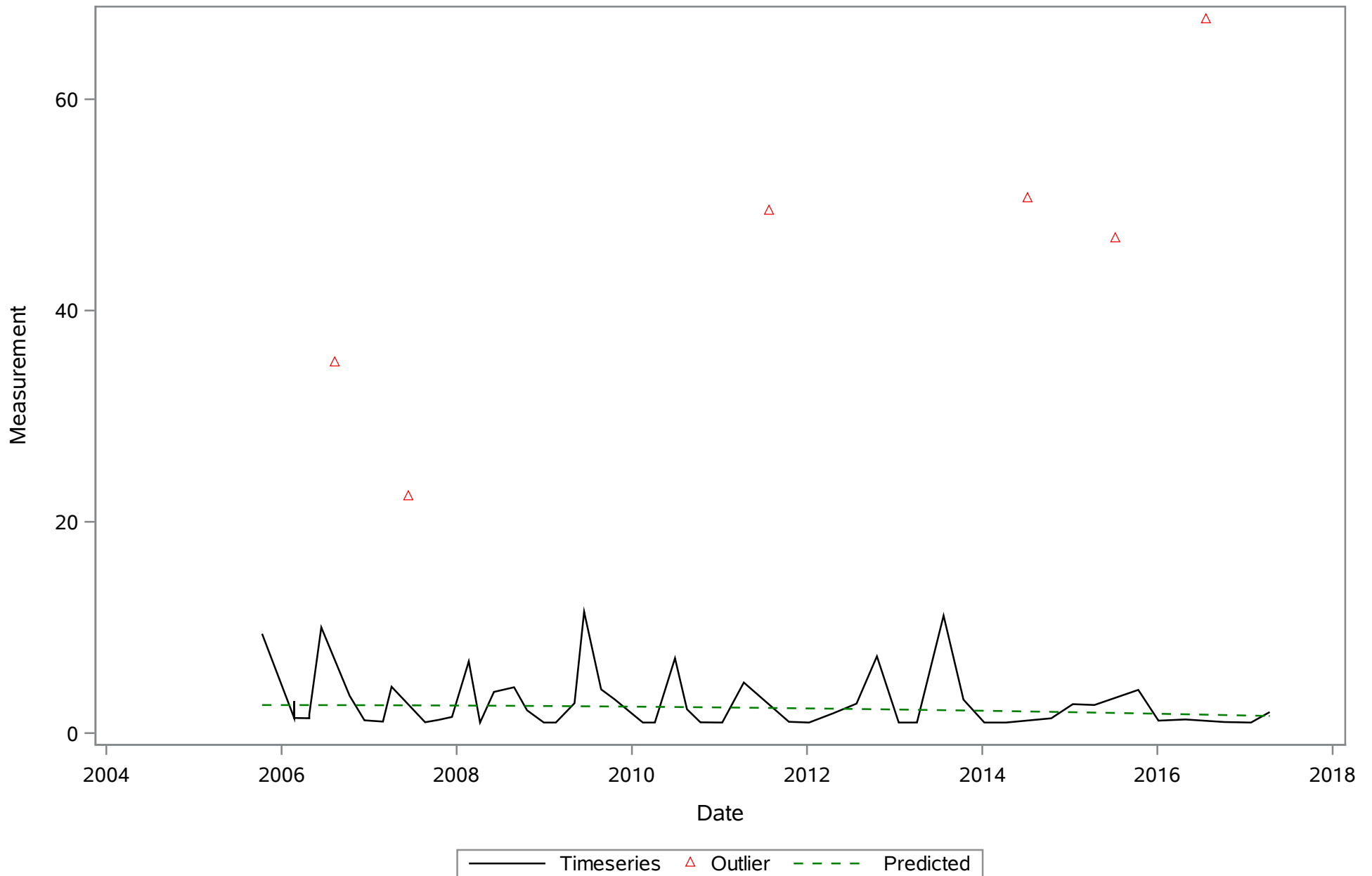
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Calcium (Dissolved) mg/L



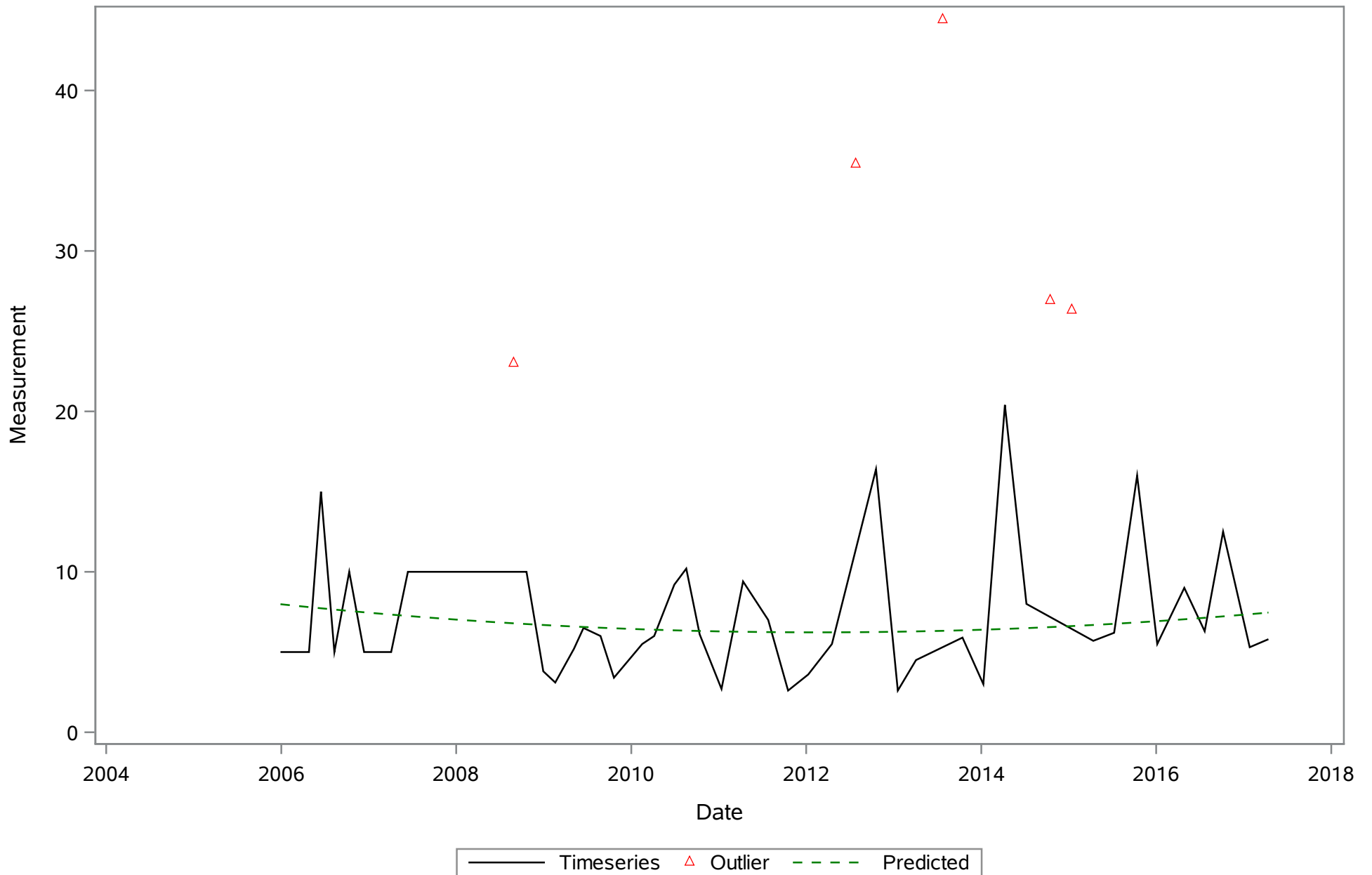
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Carbon- Total Organic (Total) mg/L



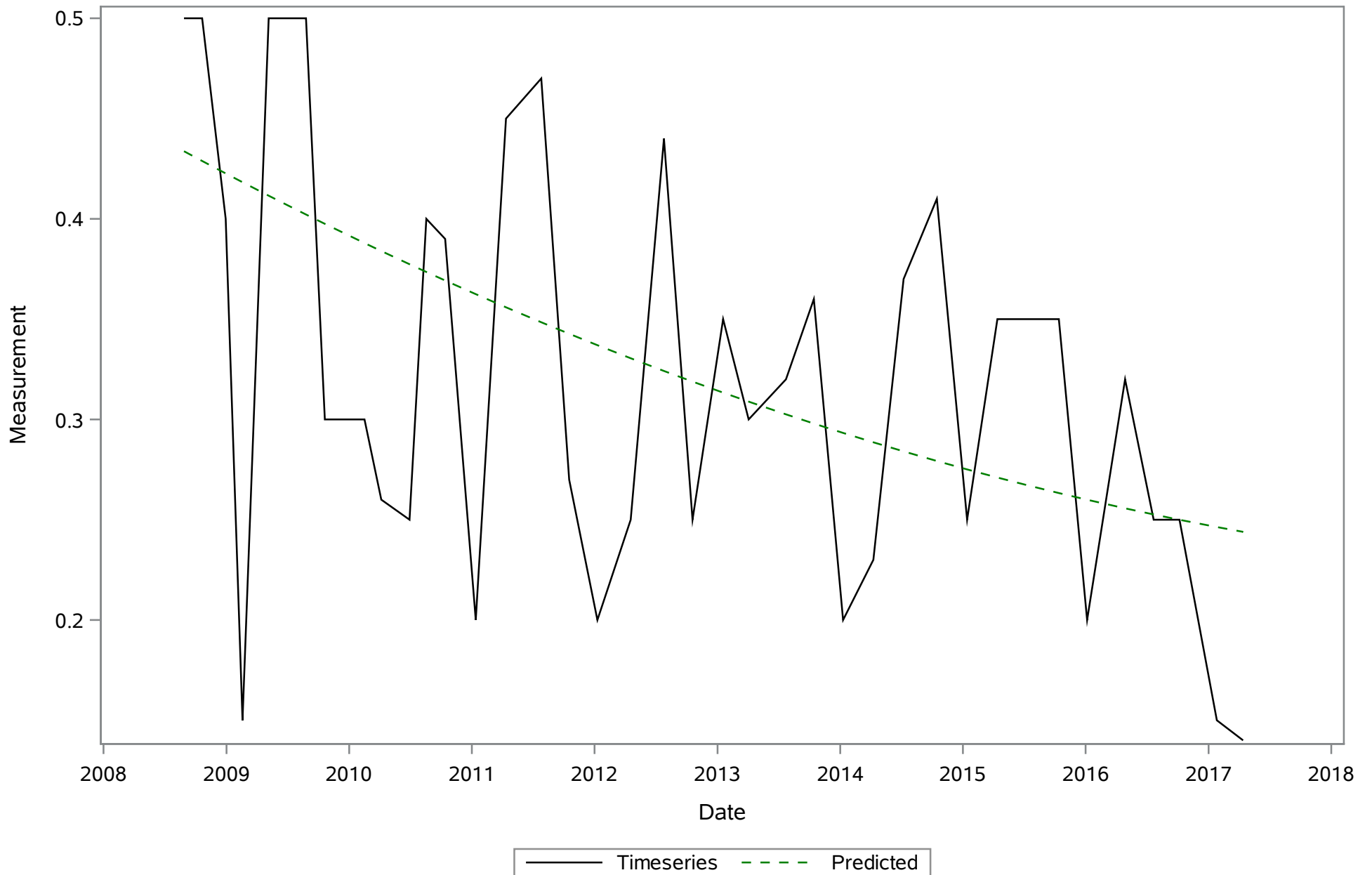
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Chlorophyll a (Total) ug/L



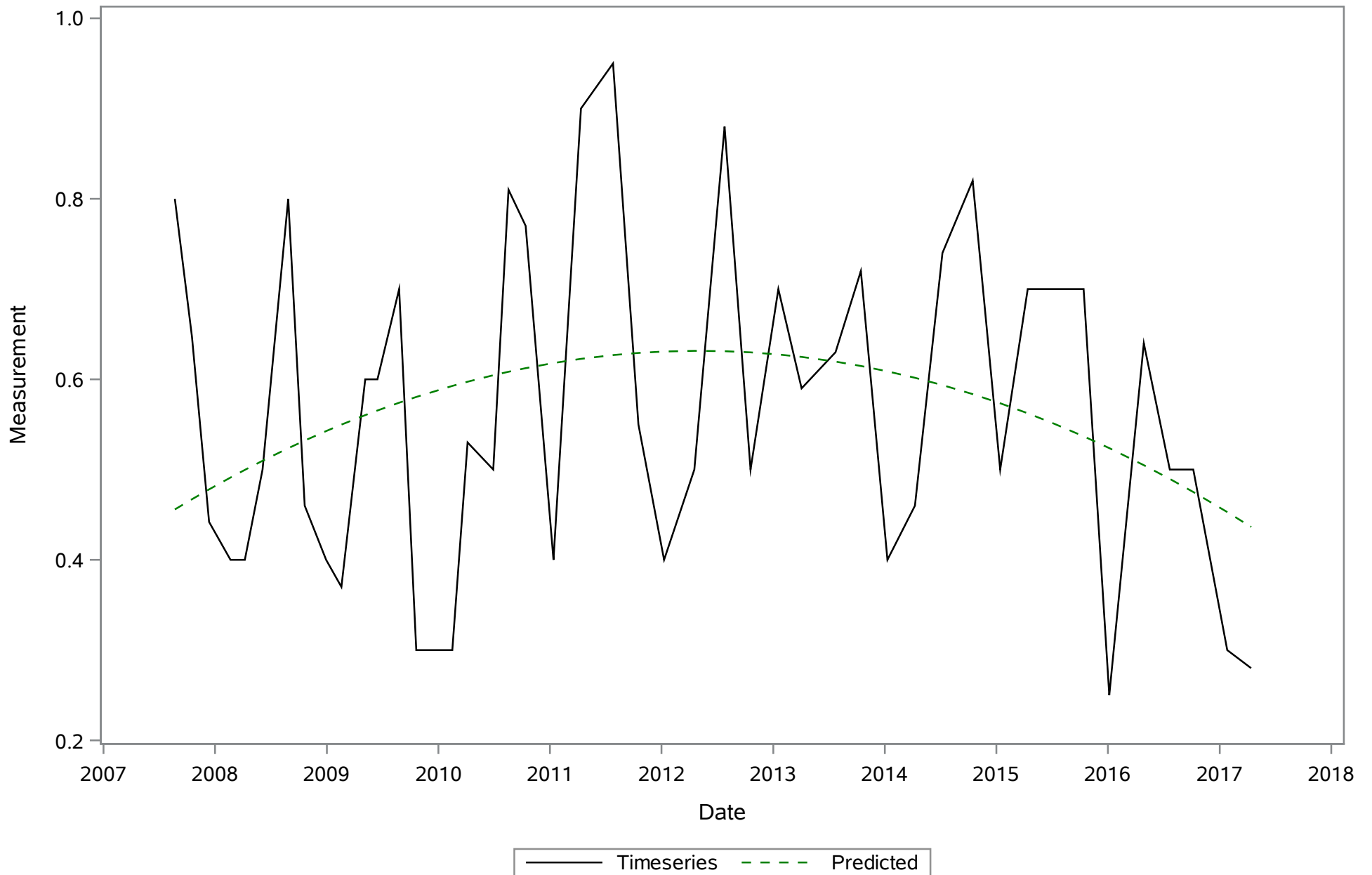
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Color (Dissolved) PCU



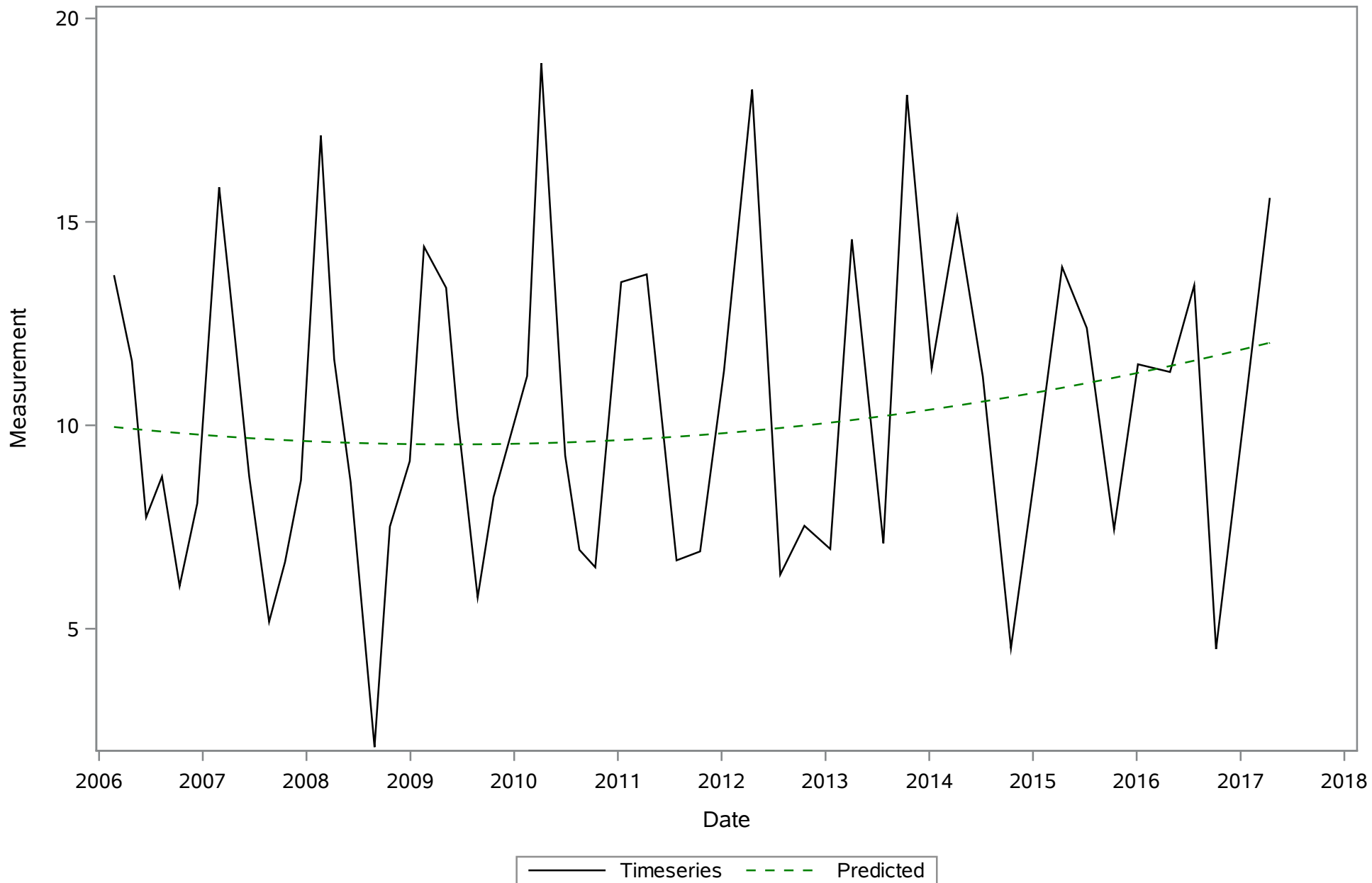
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth (Total) Meters



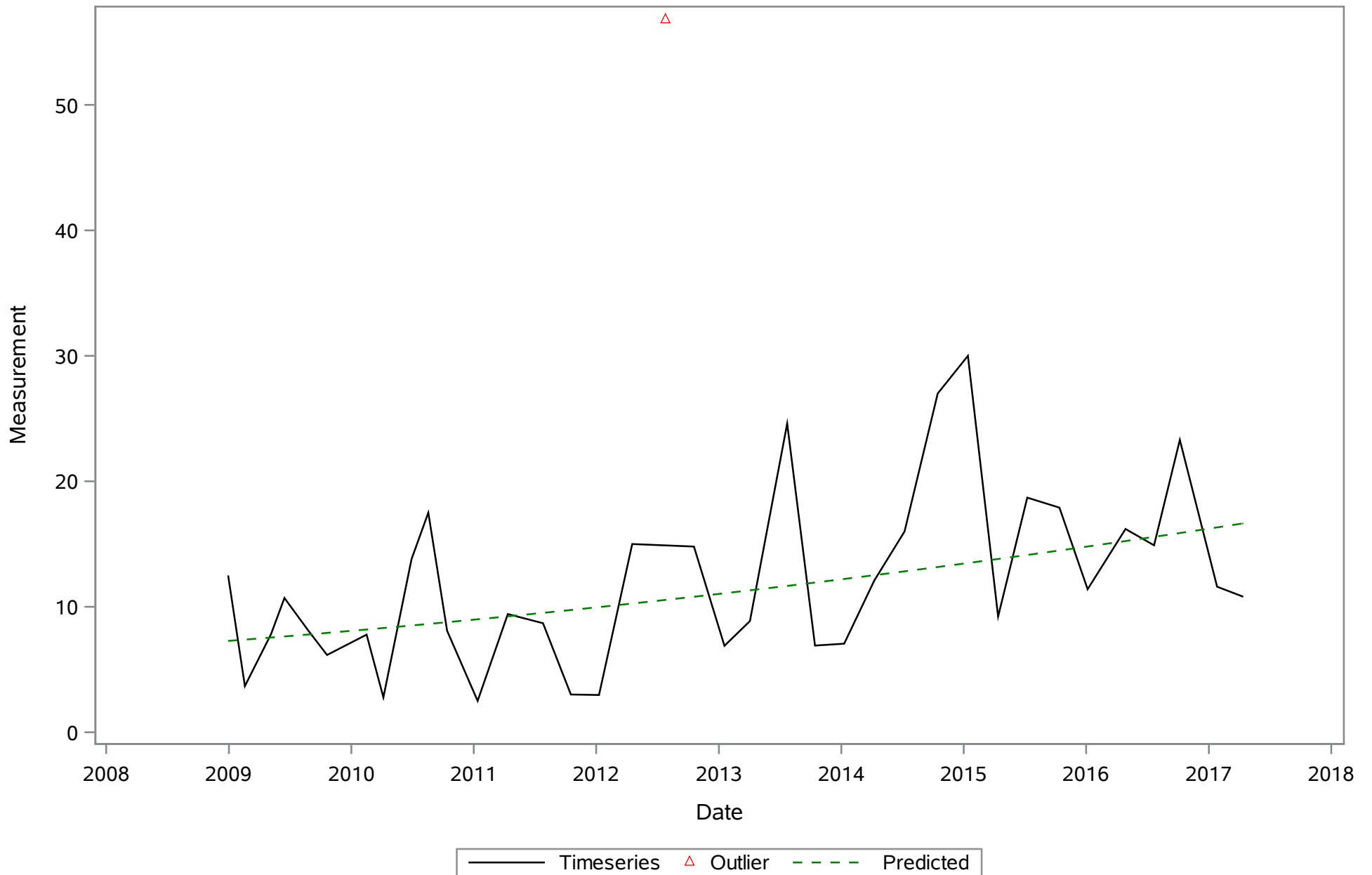
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth, bottom (Total) Meters



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Dissolved Oxygen (Total) mg/L



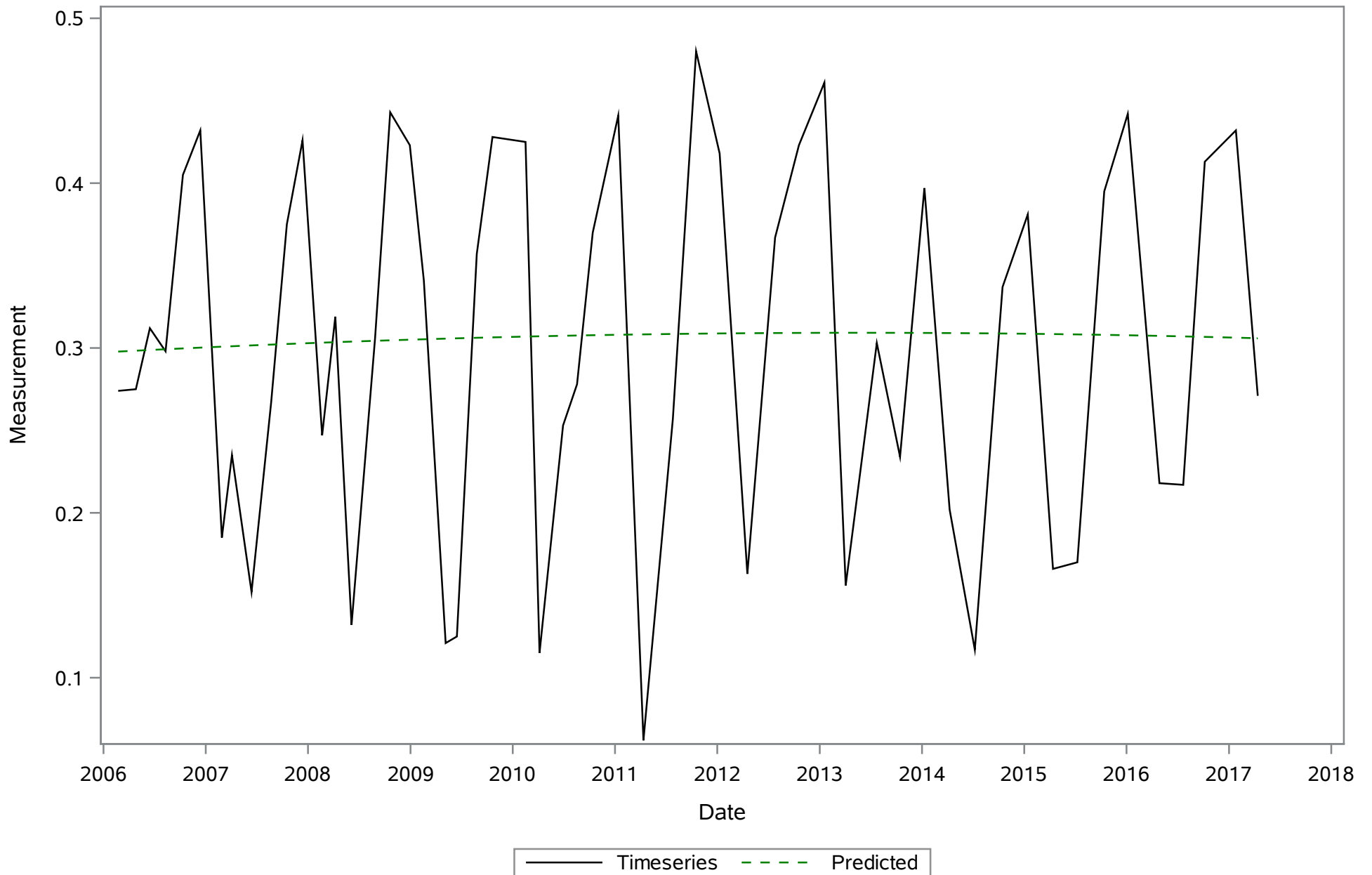
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Iron (Dissolved) ug/L



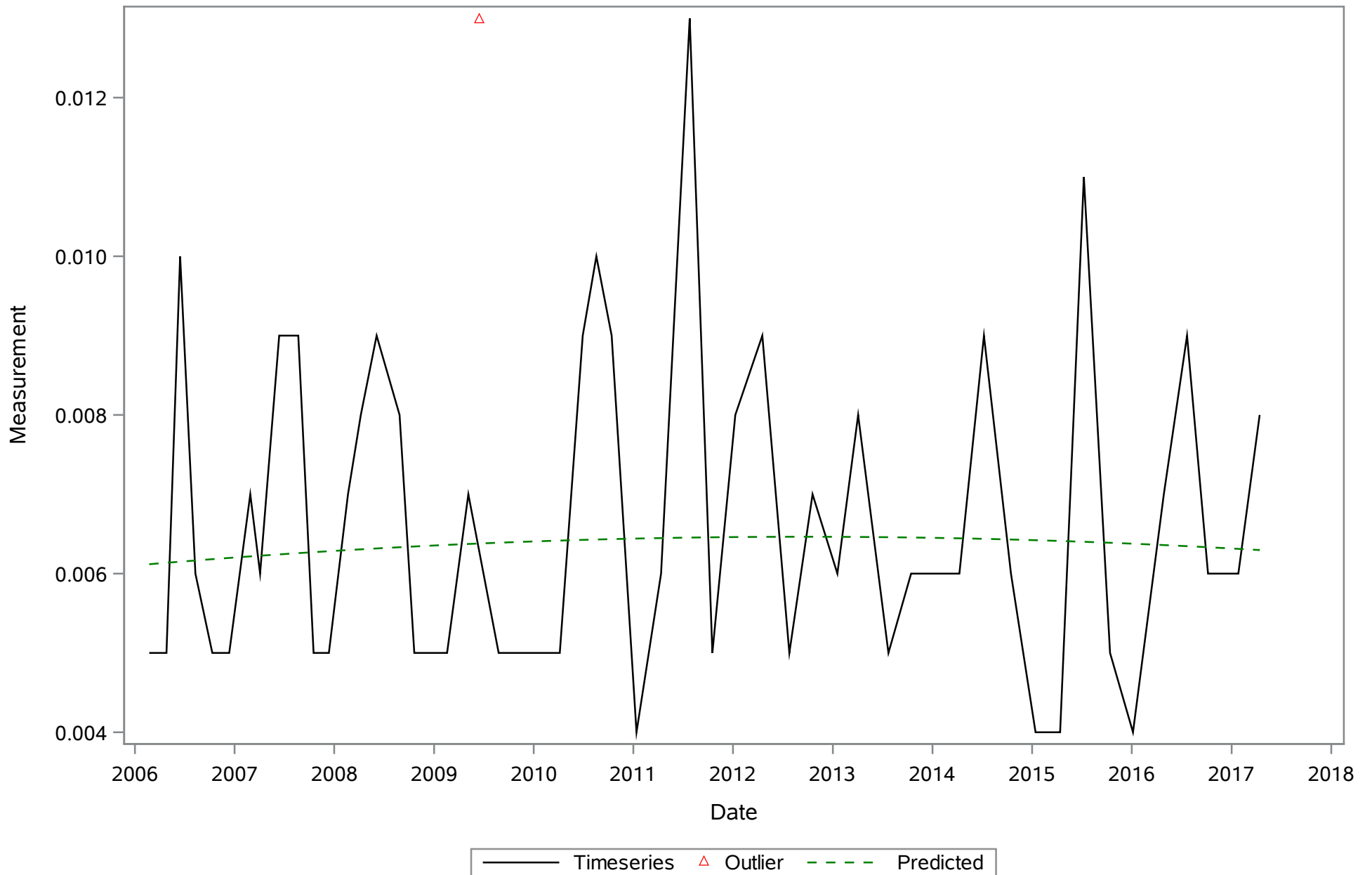
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Magnesium (Dissolved) mg/L



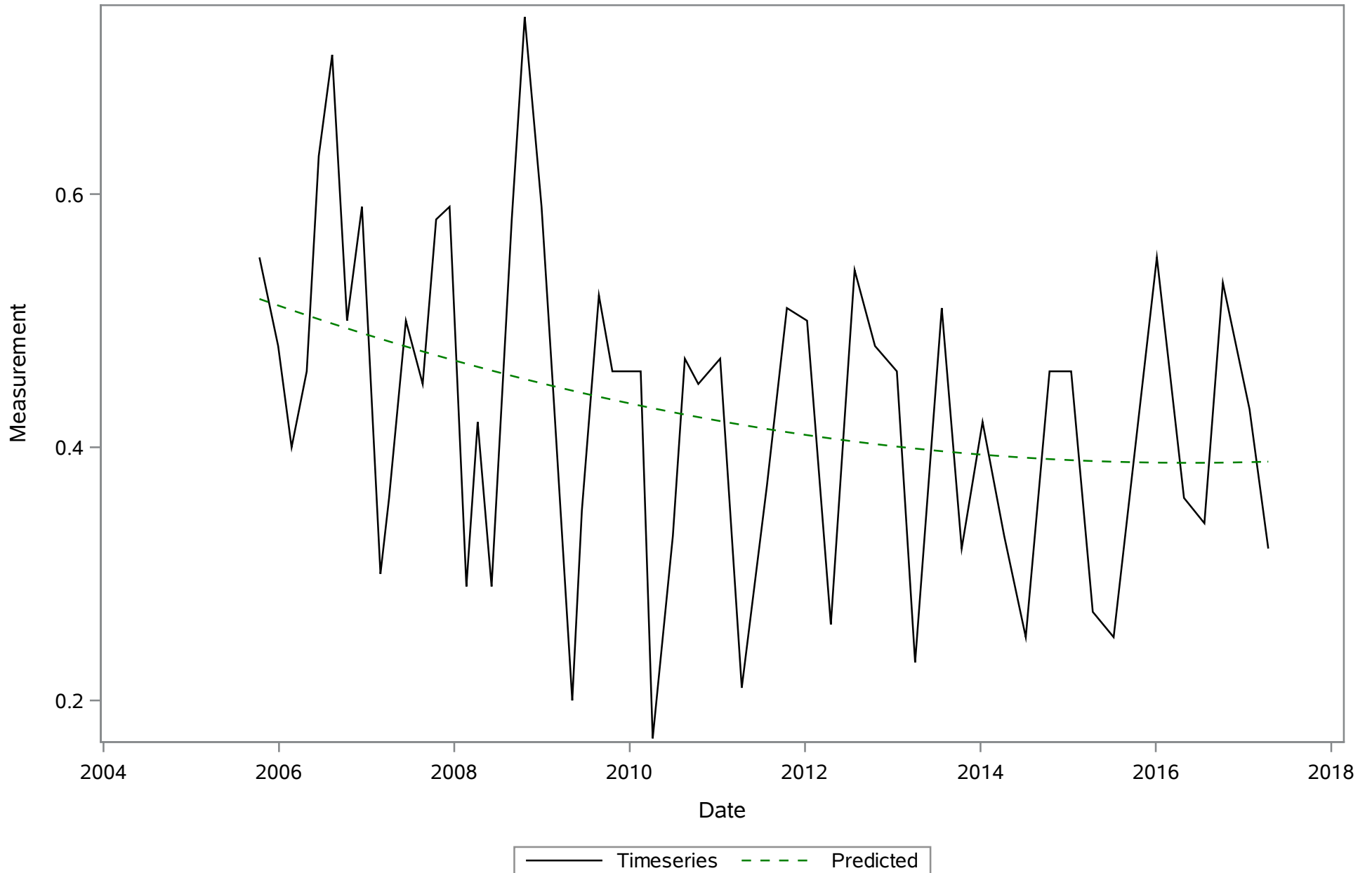
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrate-Nitrite (N) (Total) mg/L



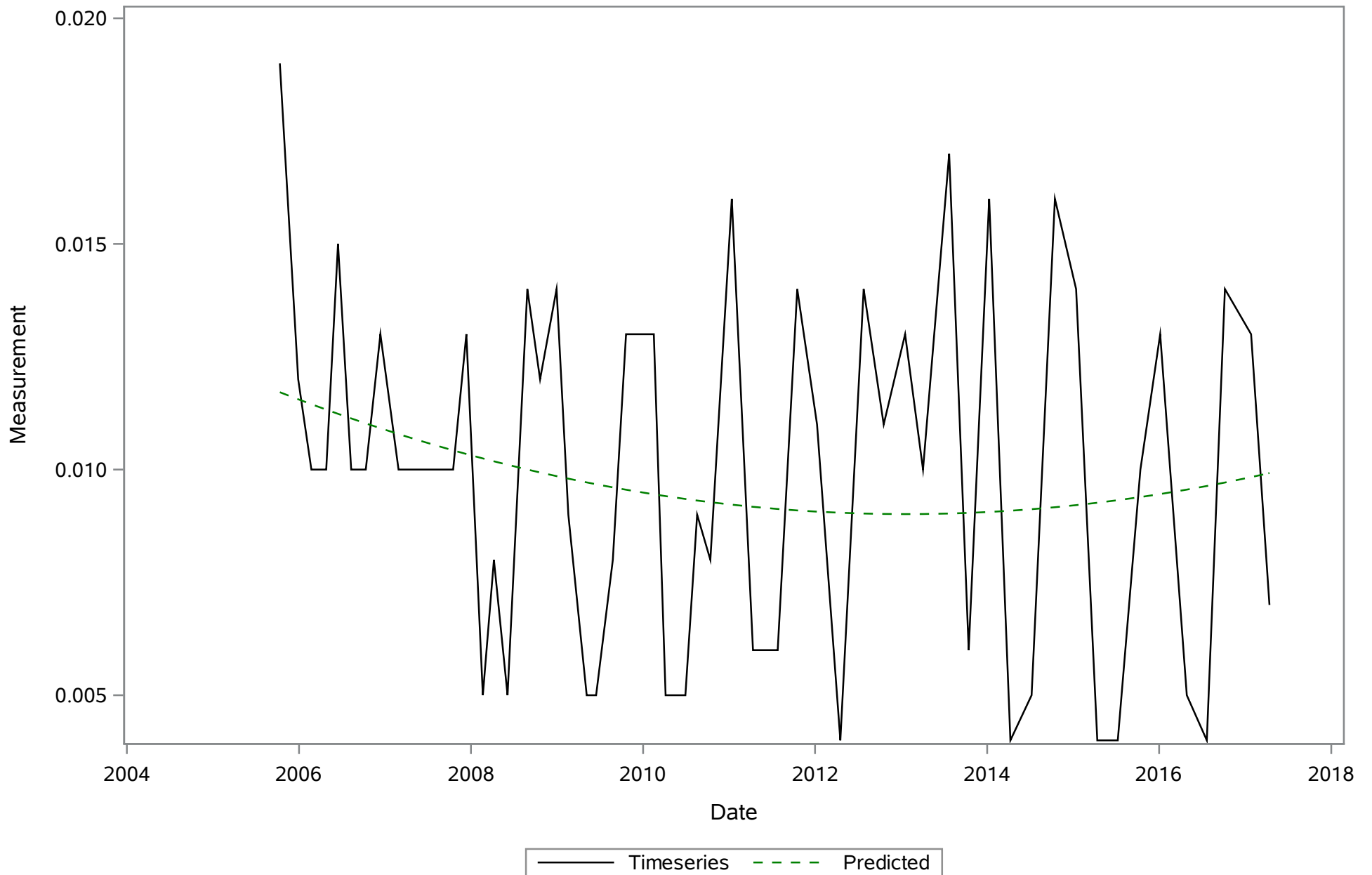
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrite (N) (Total) mg/L



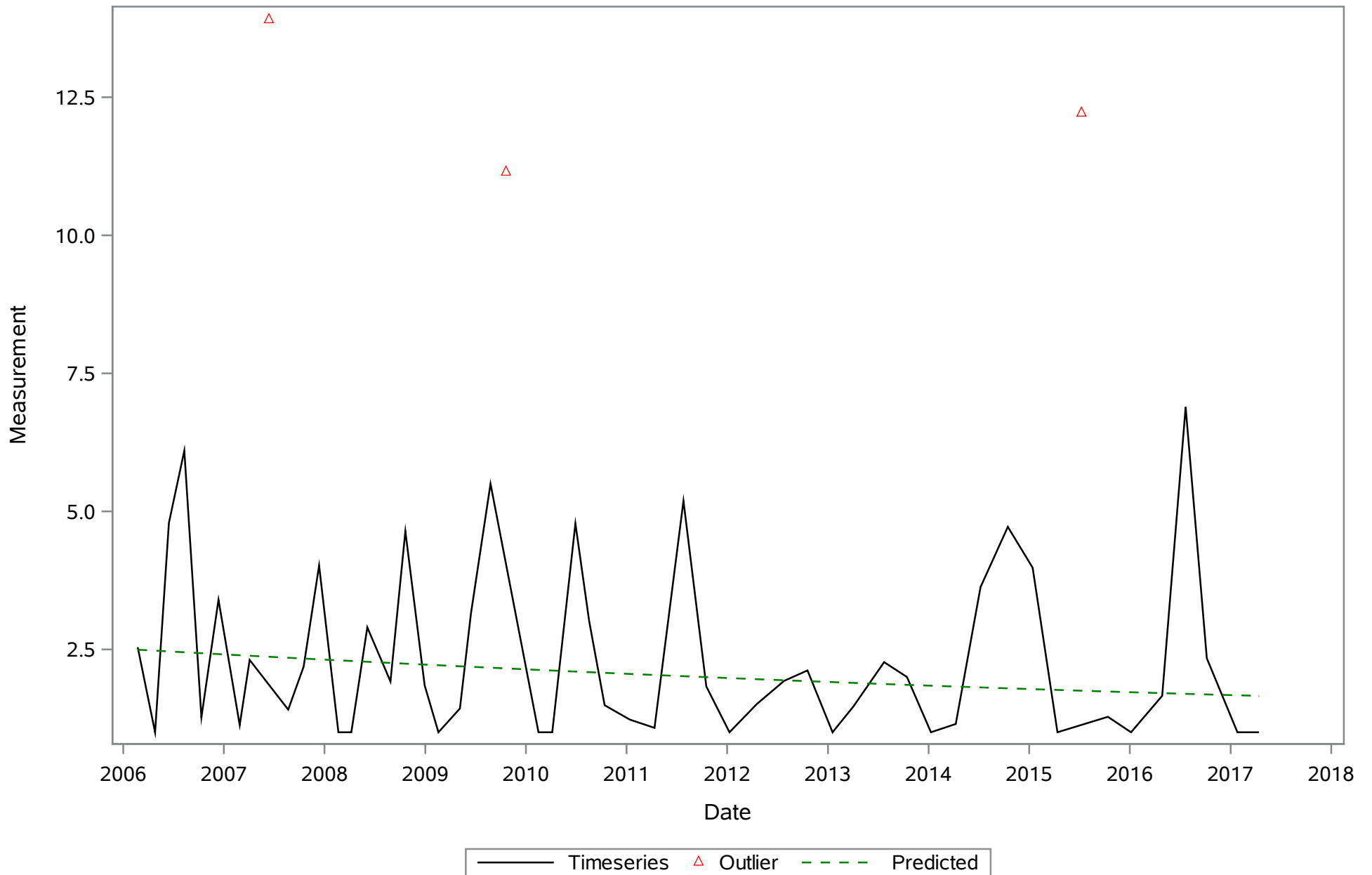
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrogen- Total (Total) mg/L



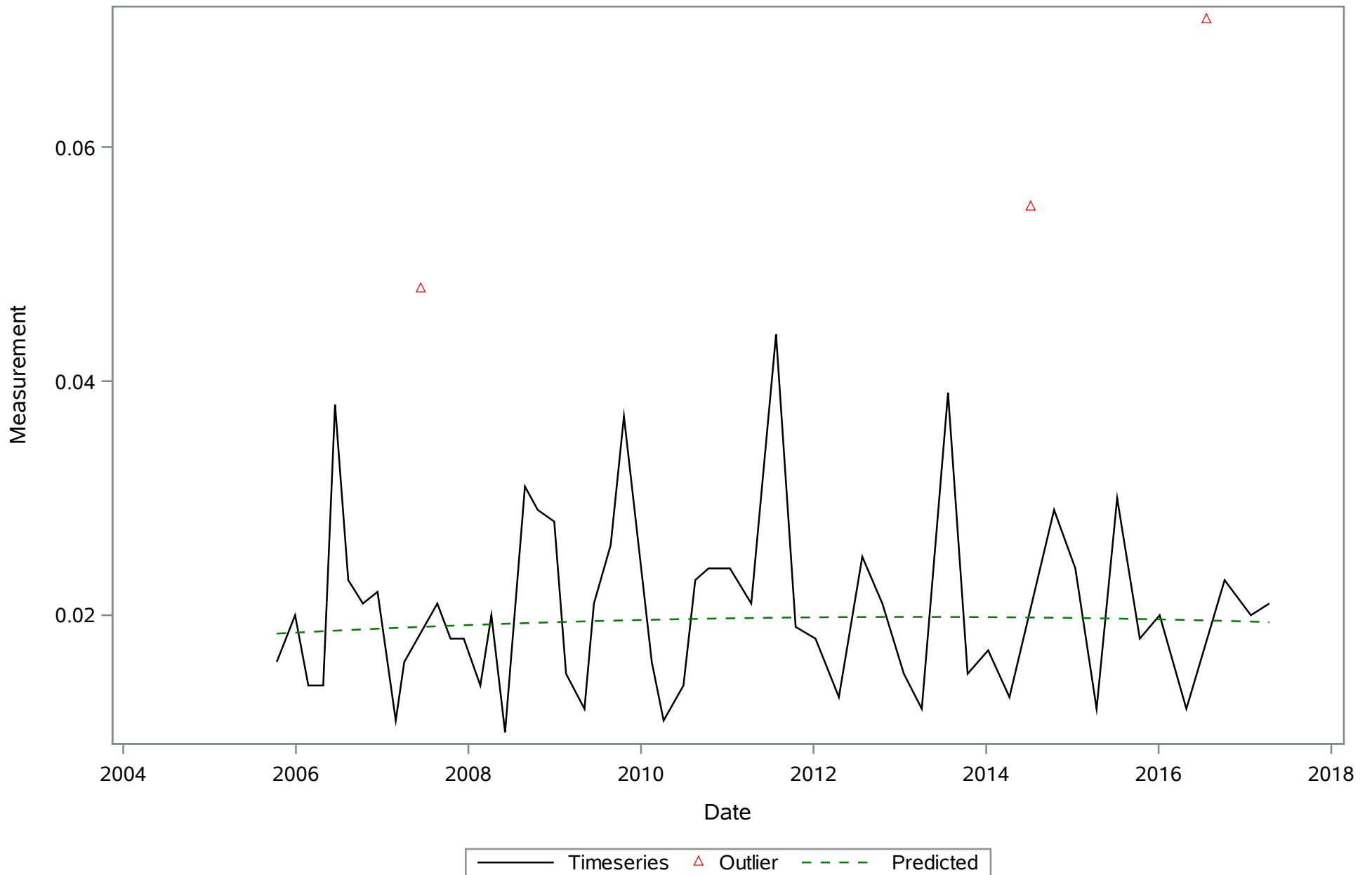
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Orthophosphate (P) (Dissolved) mg/L



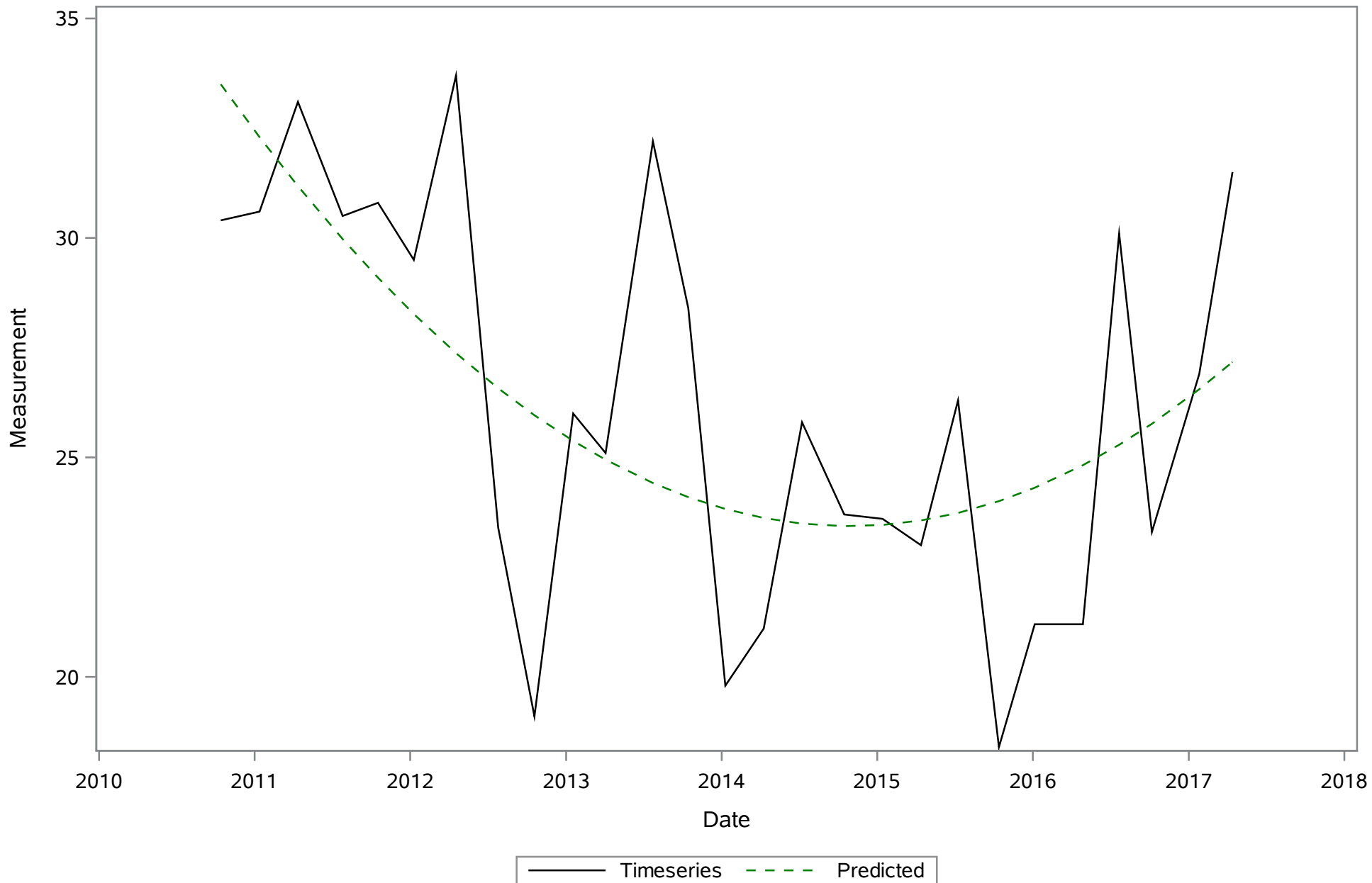
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phaeophytin (Total) ug/L



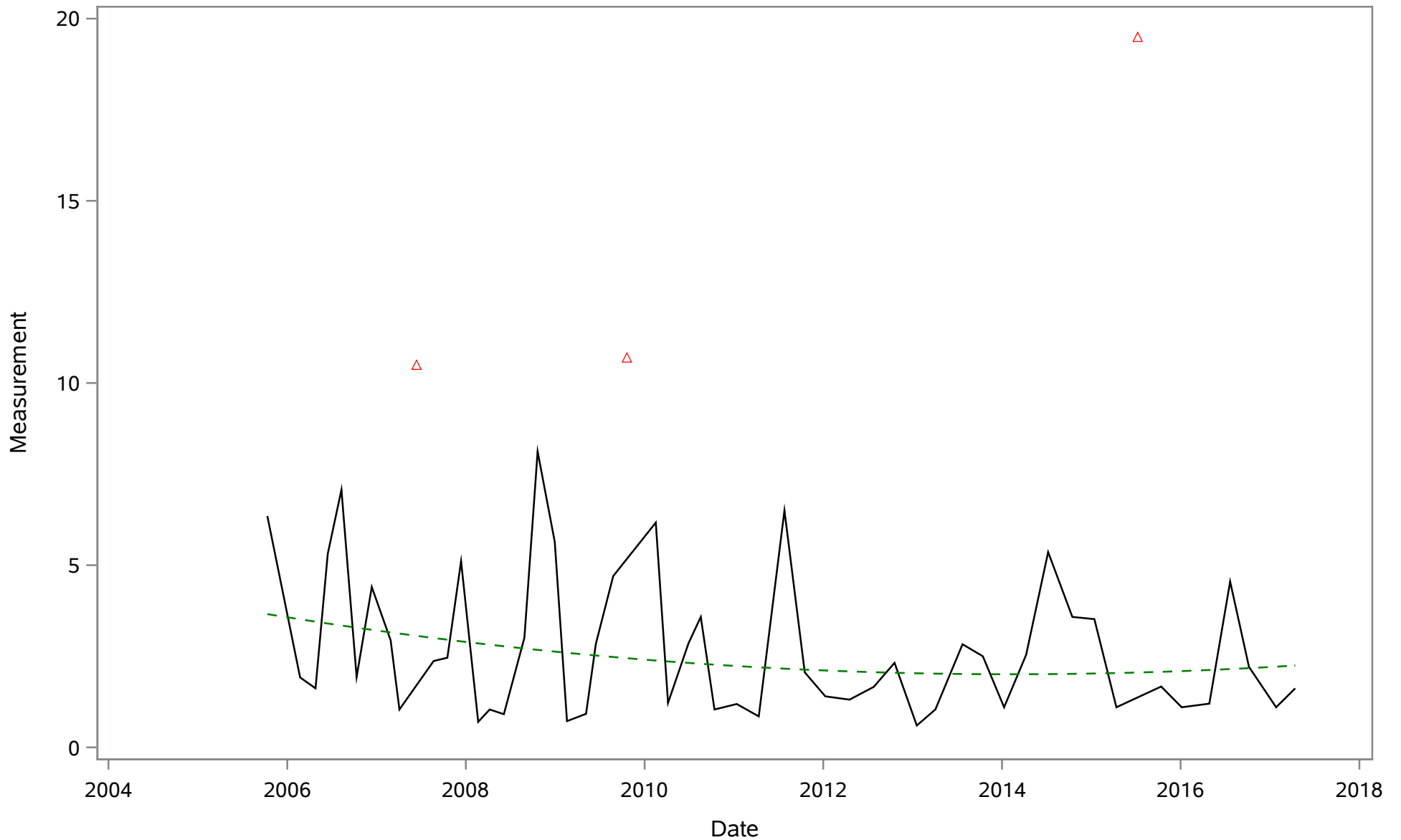
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phosphorus- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Potassium (Dissolved) mg/L

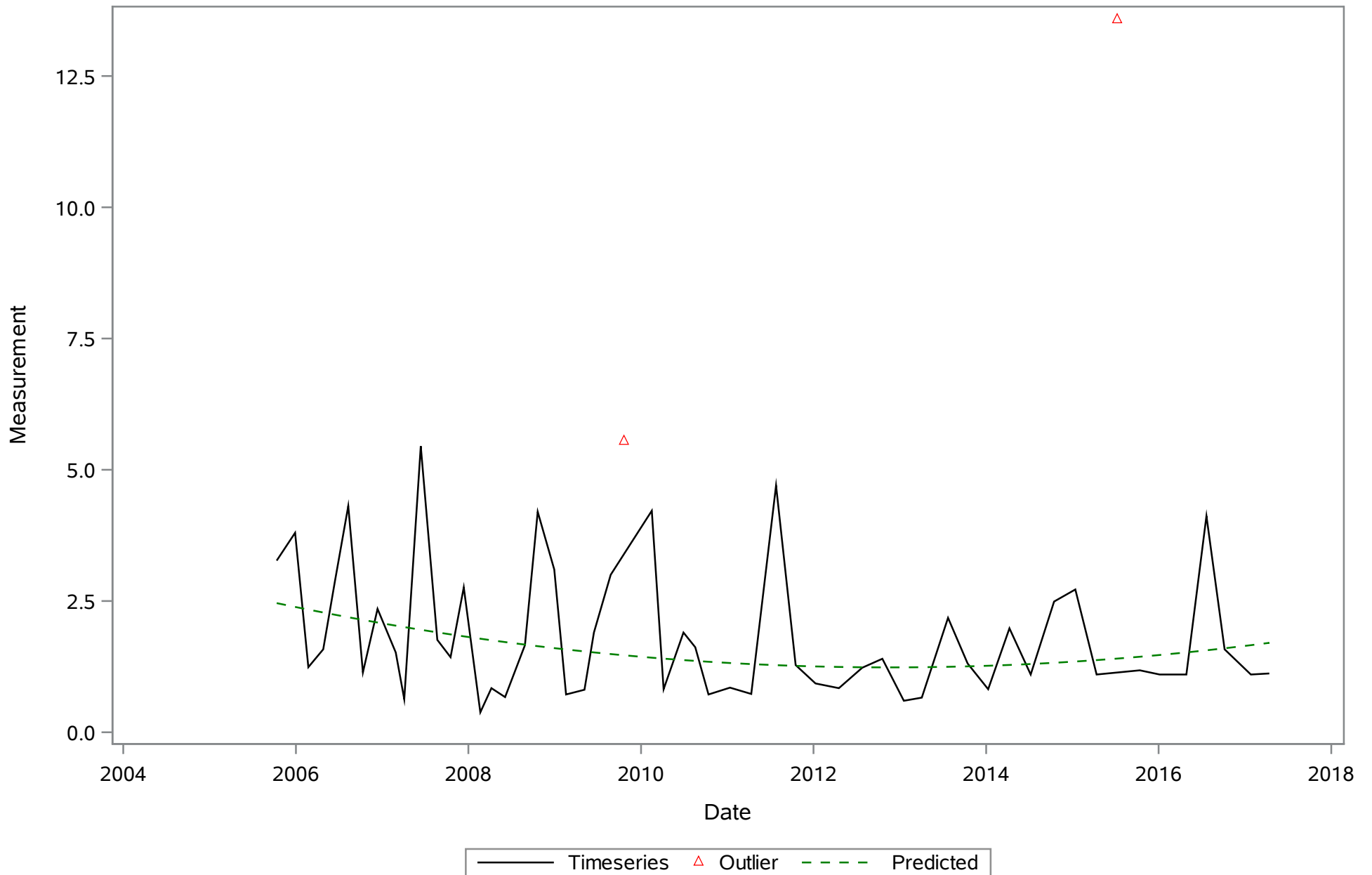


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Nonfilterable (TSS) (Total) mg/L

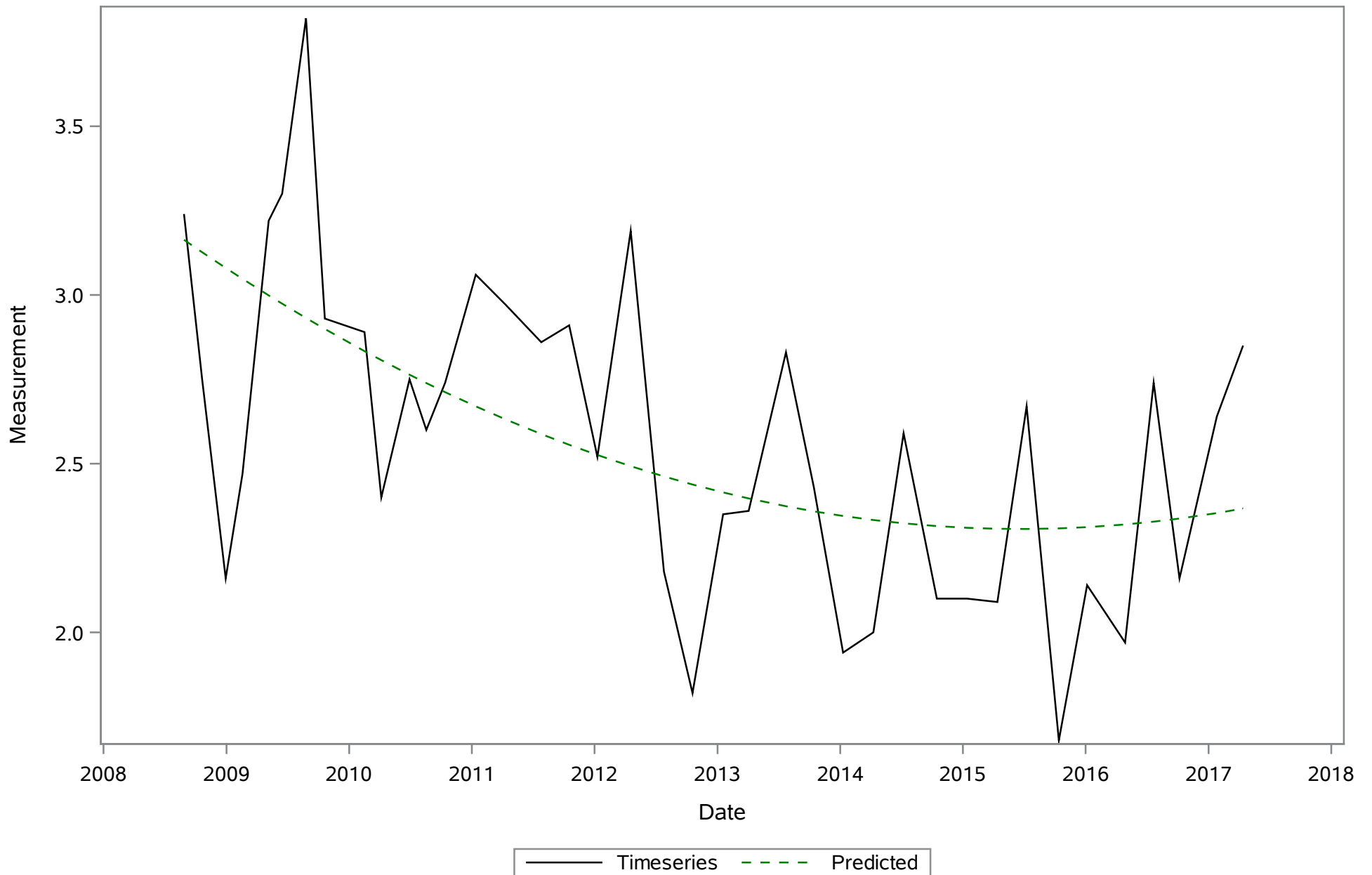


— Timeseries △ Outlier - - - Predicted

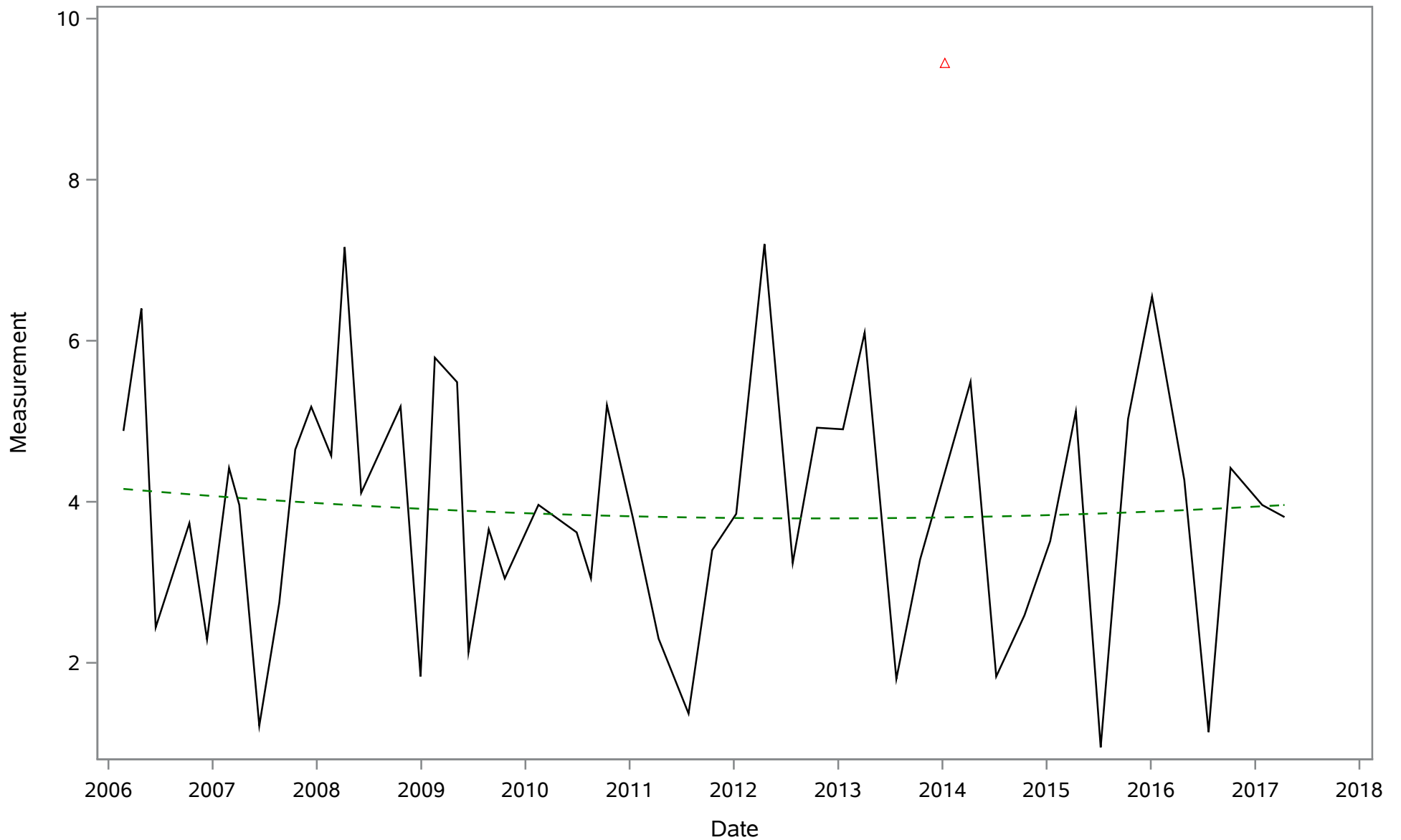
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Volatile (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Salinity (Total) ppth

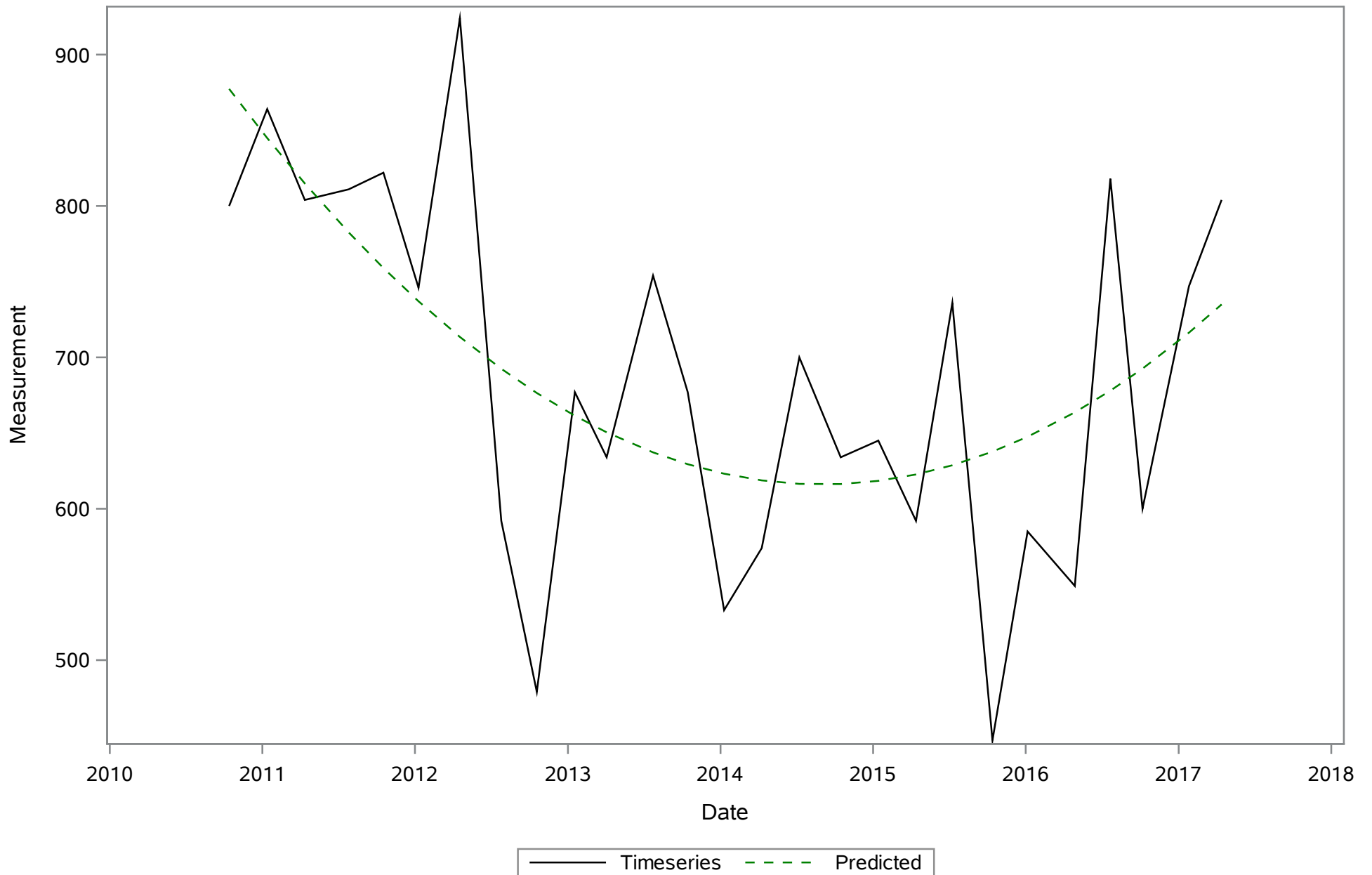


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Secchi-horizontal (Total) Meters

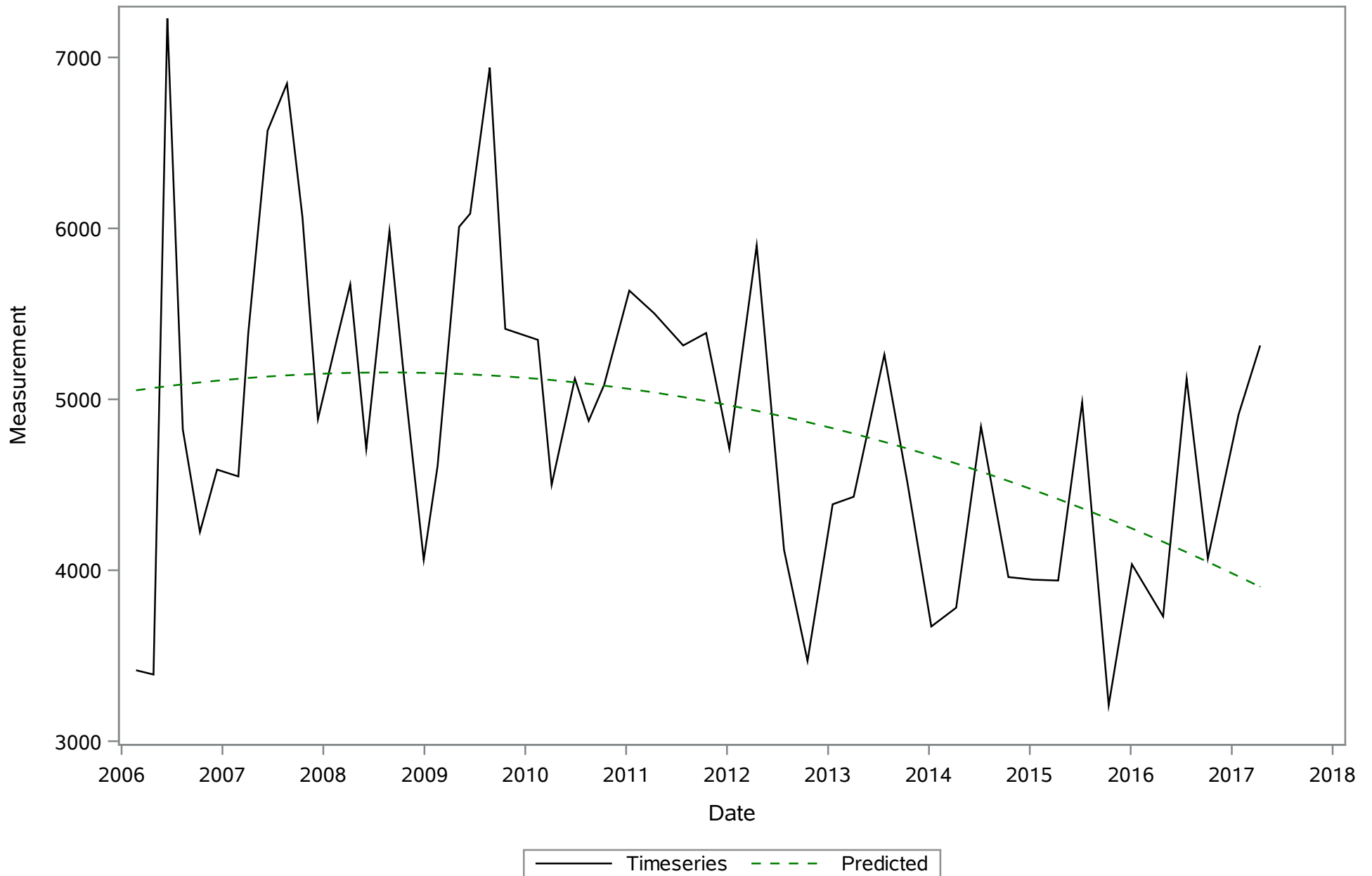


— Timeseries △ Outlier - - - Predicted

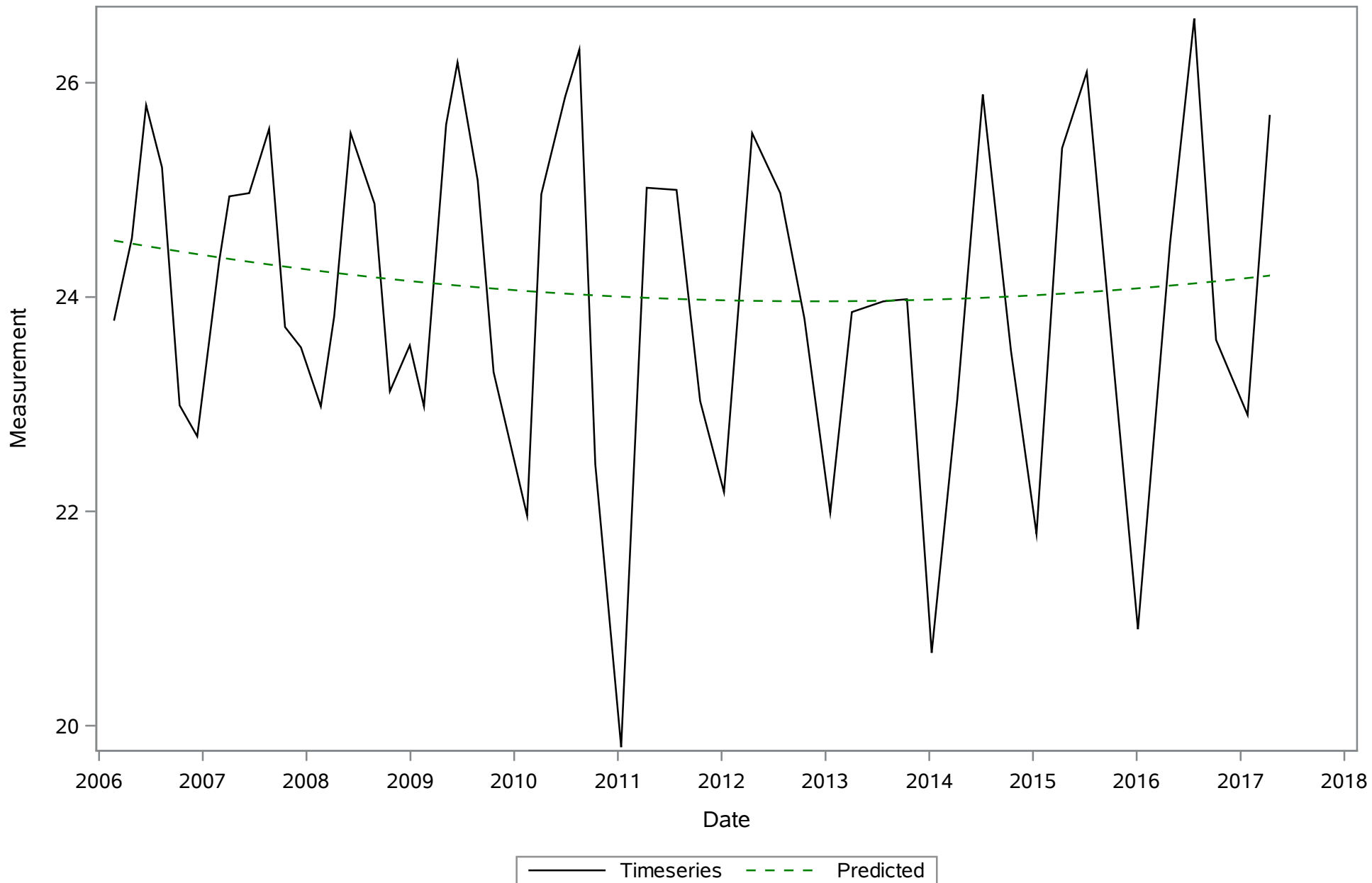
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Sodium (Dissolved) mg/L



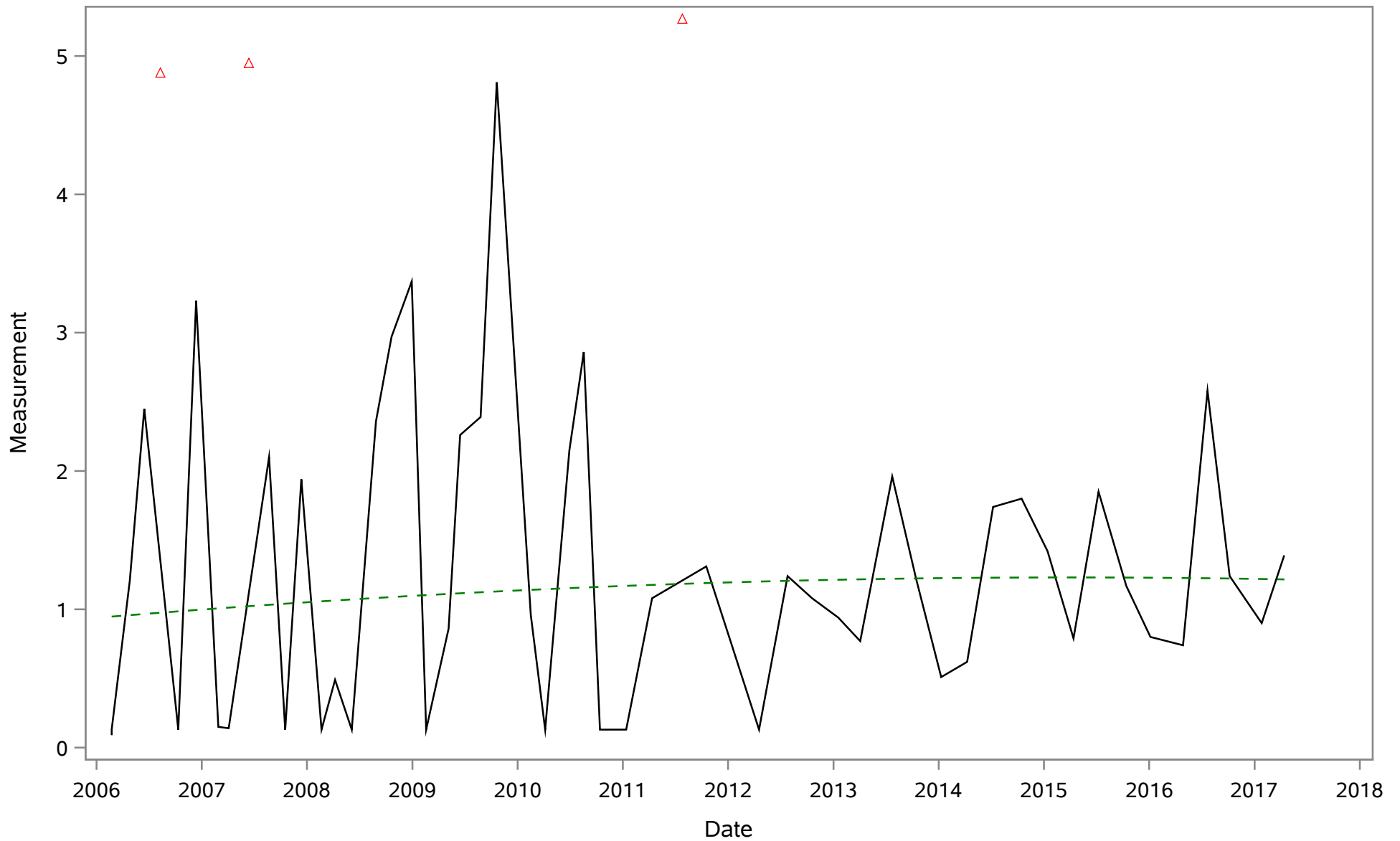
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Specific Conductance (Total) uS/cm



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Temperature (Total) Deg. C

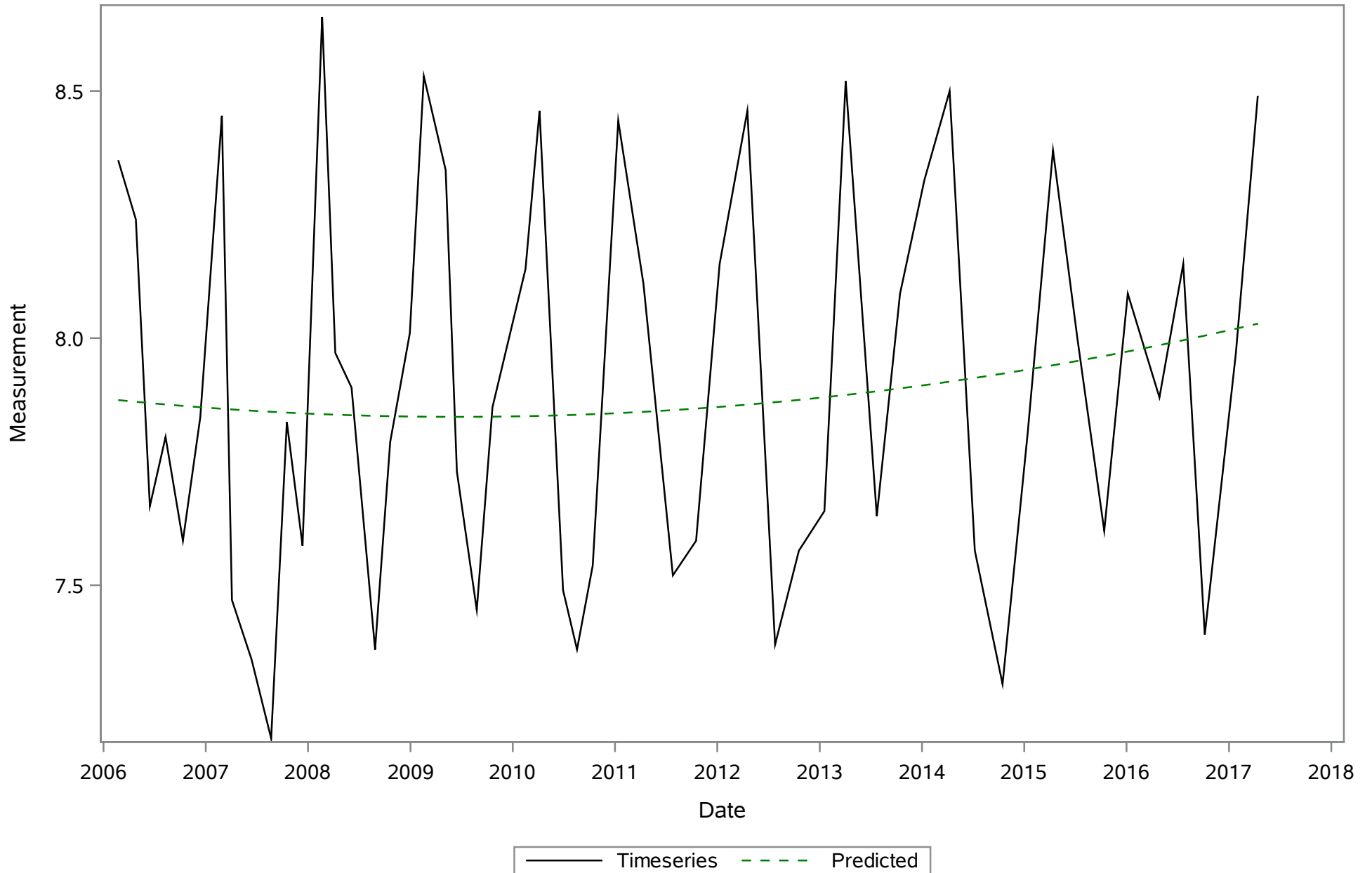


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Turbidity (Total) NTU

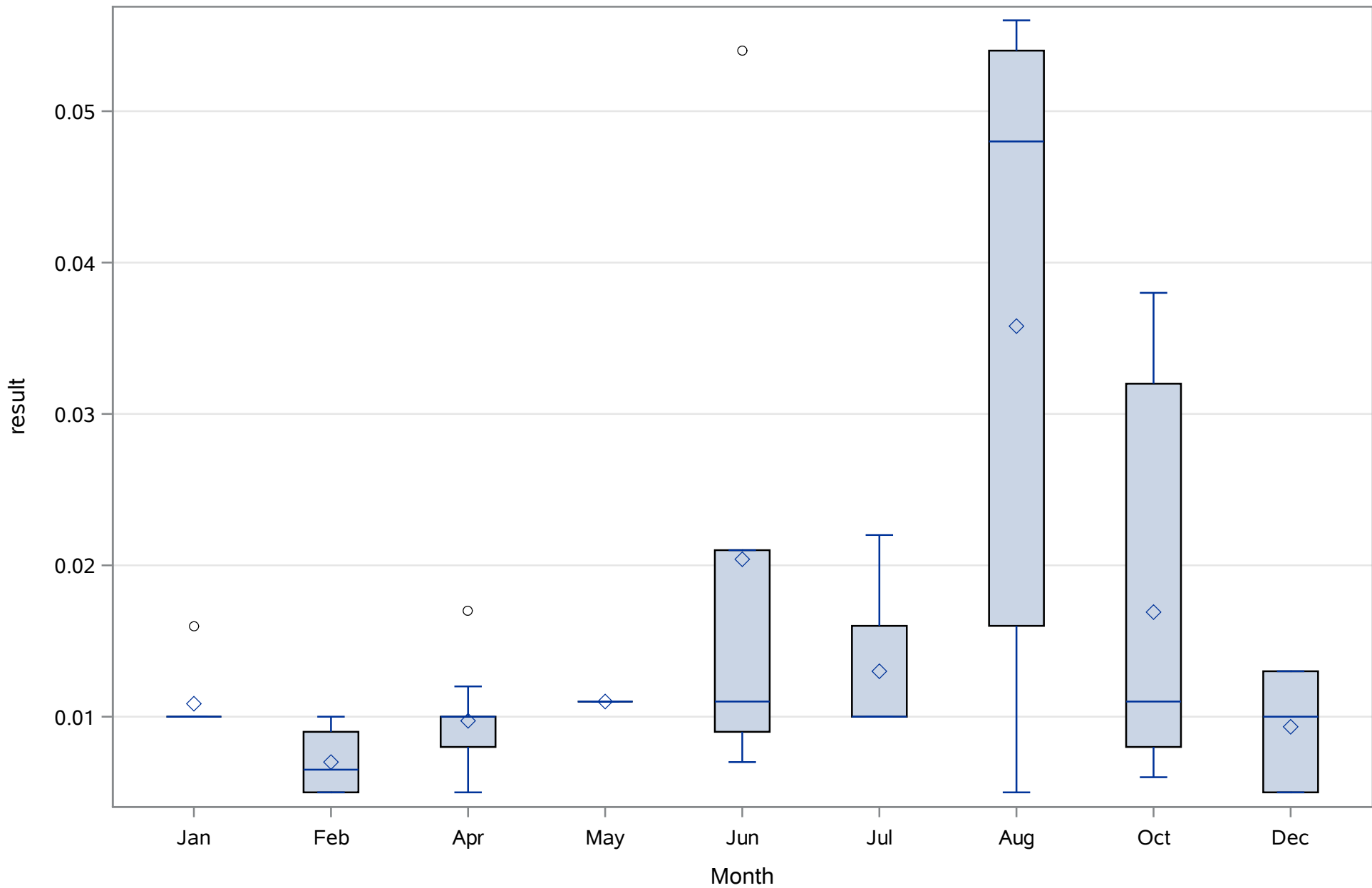


— Timeseries △ Outlier - - - Predicted

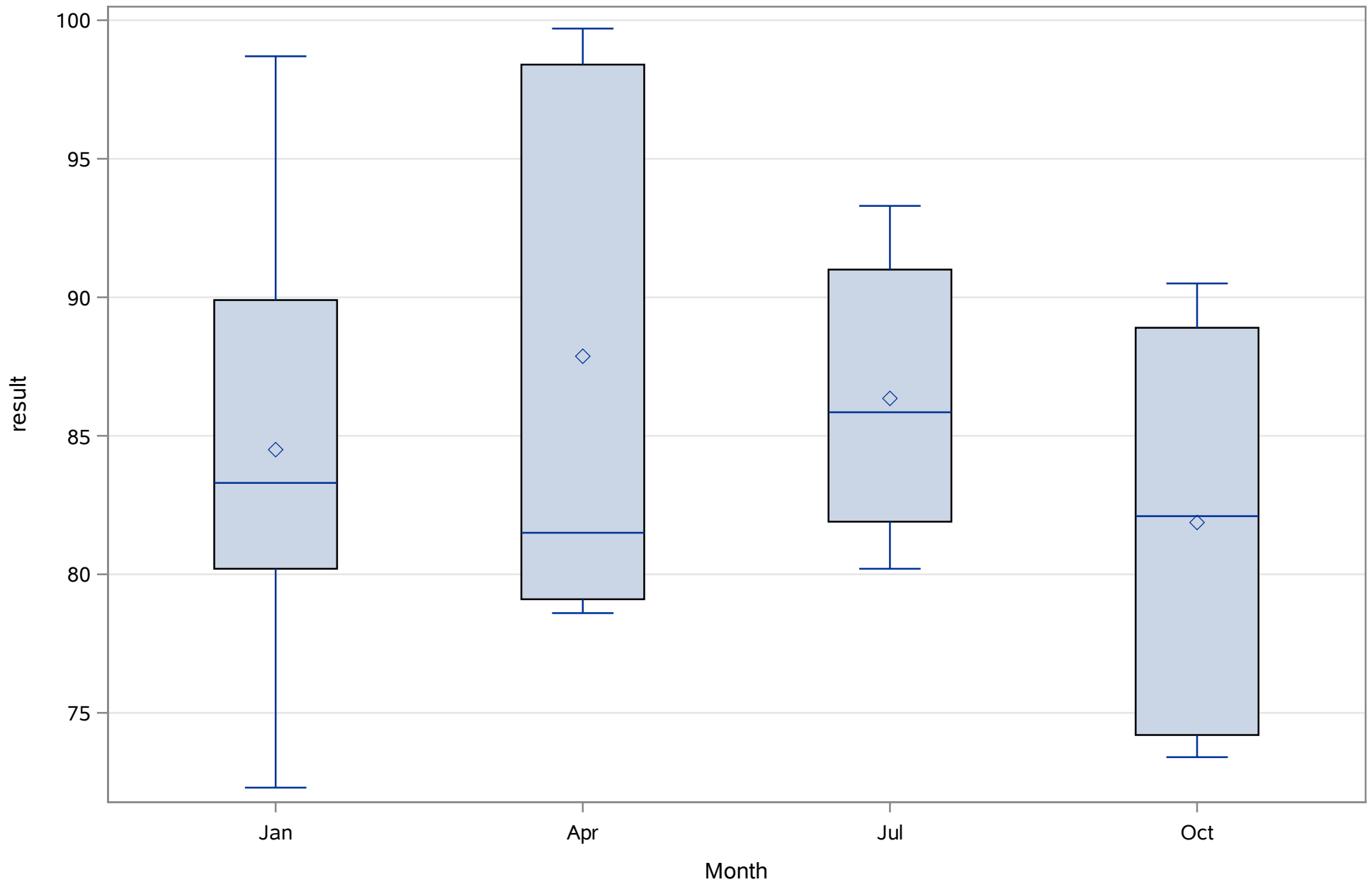
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
pH (Total) SU



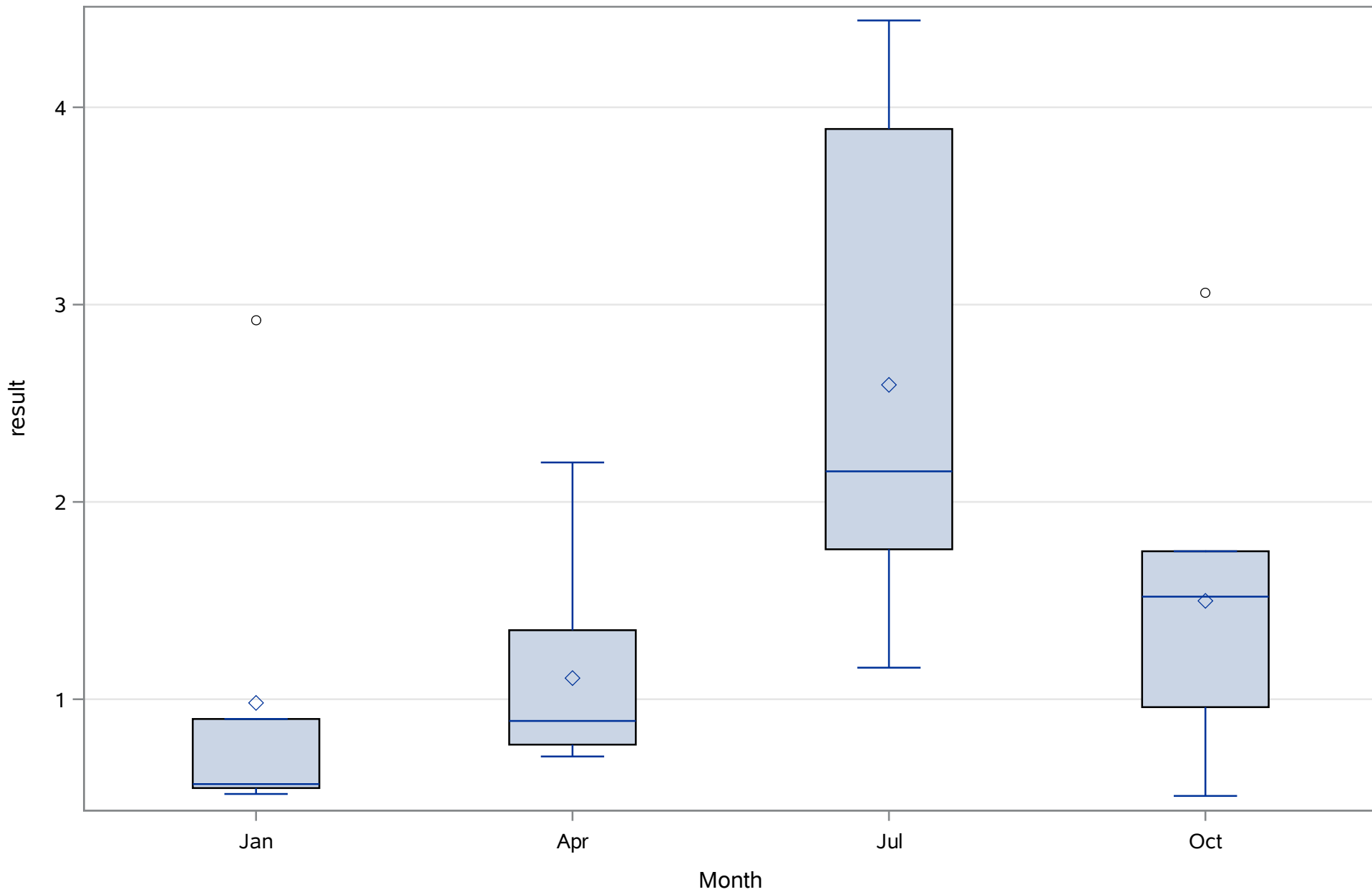
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Ammonia (N) (Total) mg/L



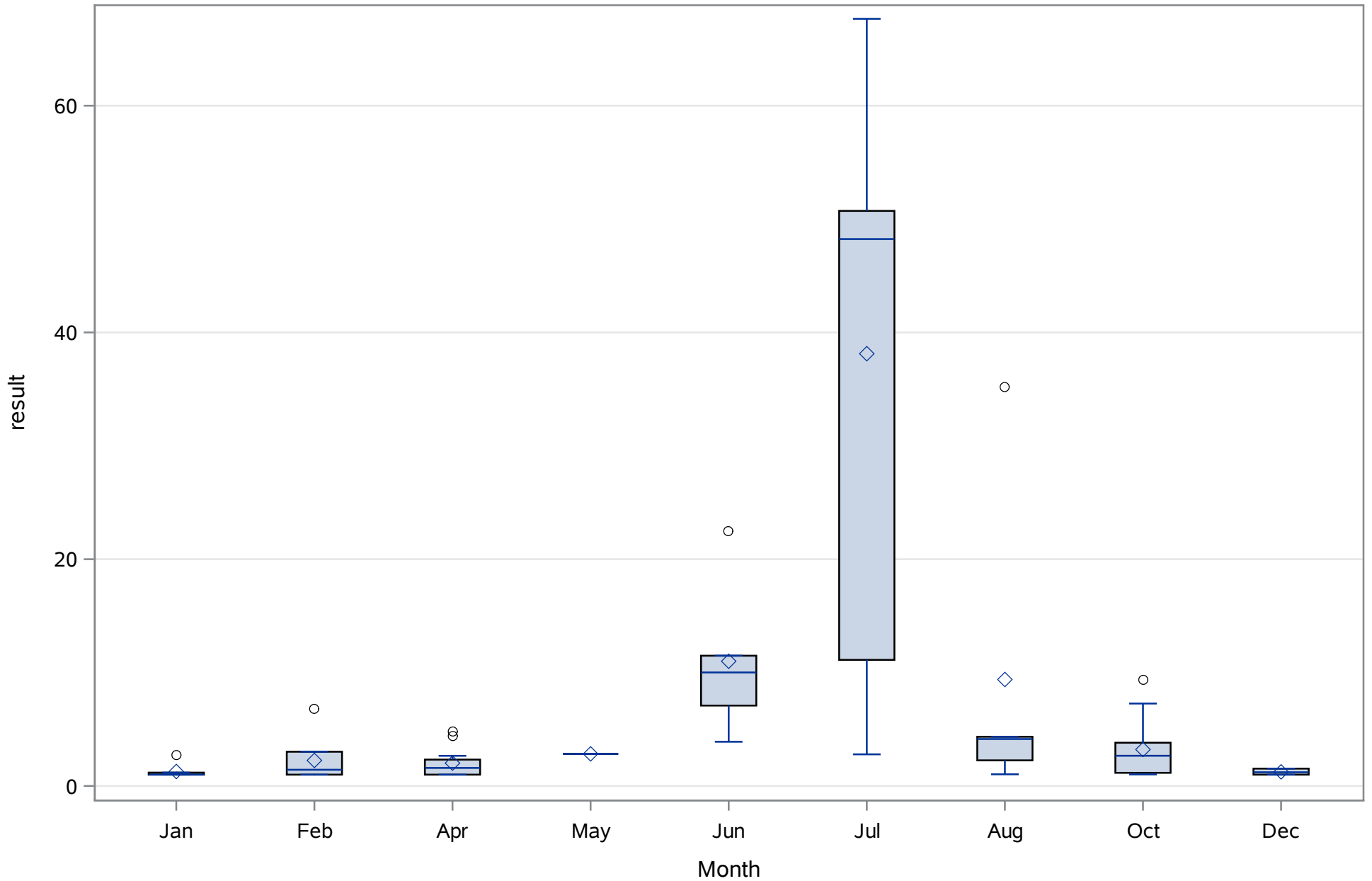
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Calcium (Dissolved) mg/L



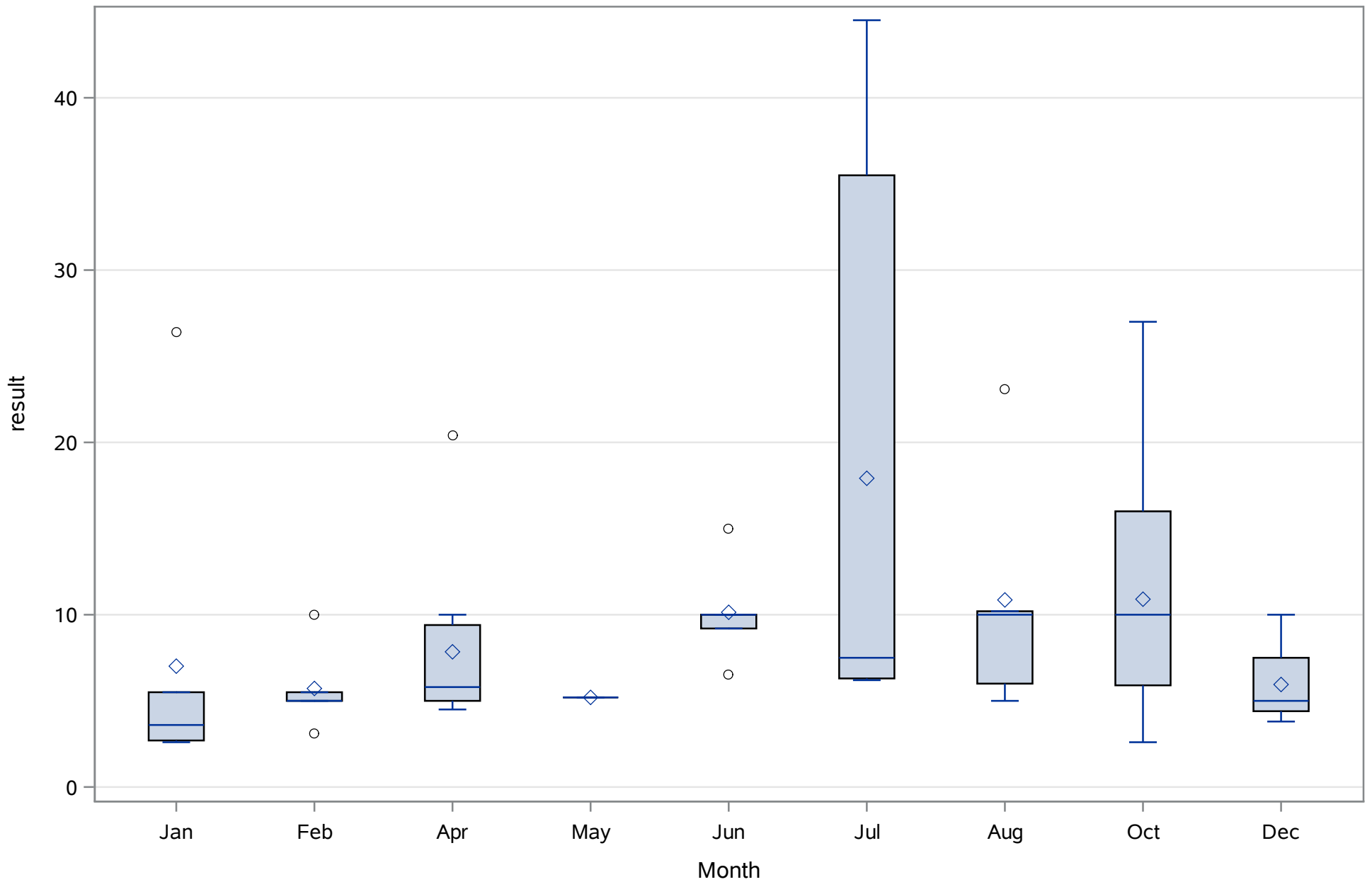
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Carbon- Total Organic (Total) mg/L



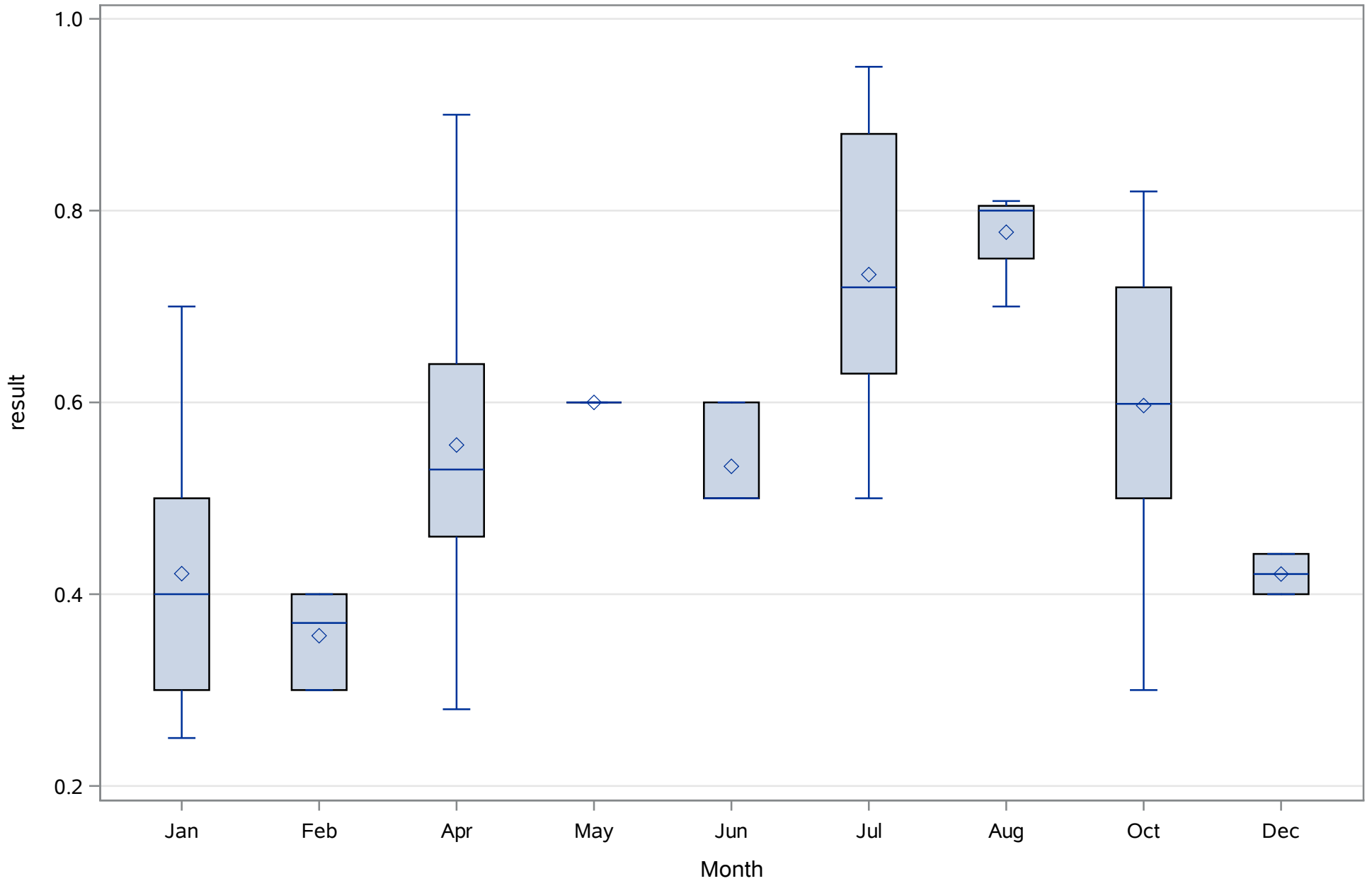
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Chlorophyll a (Total) ug/L



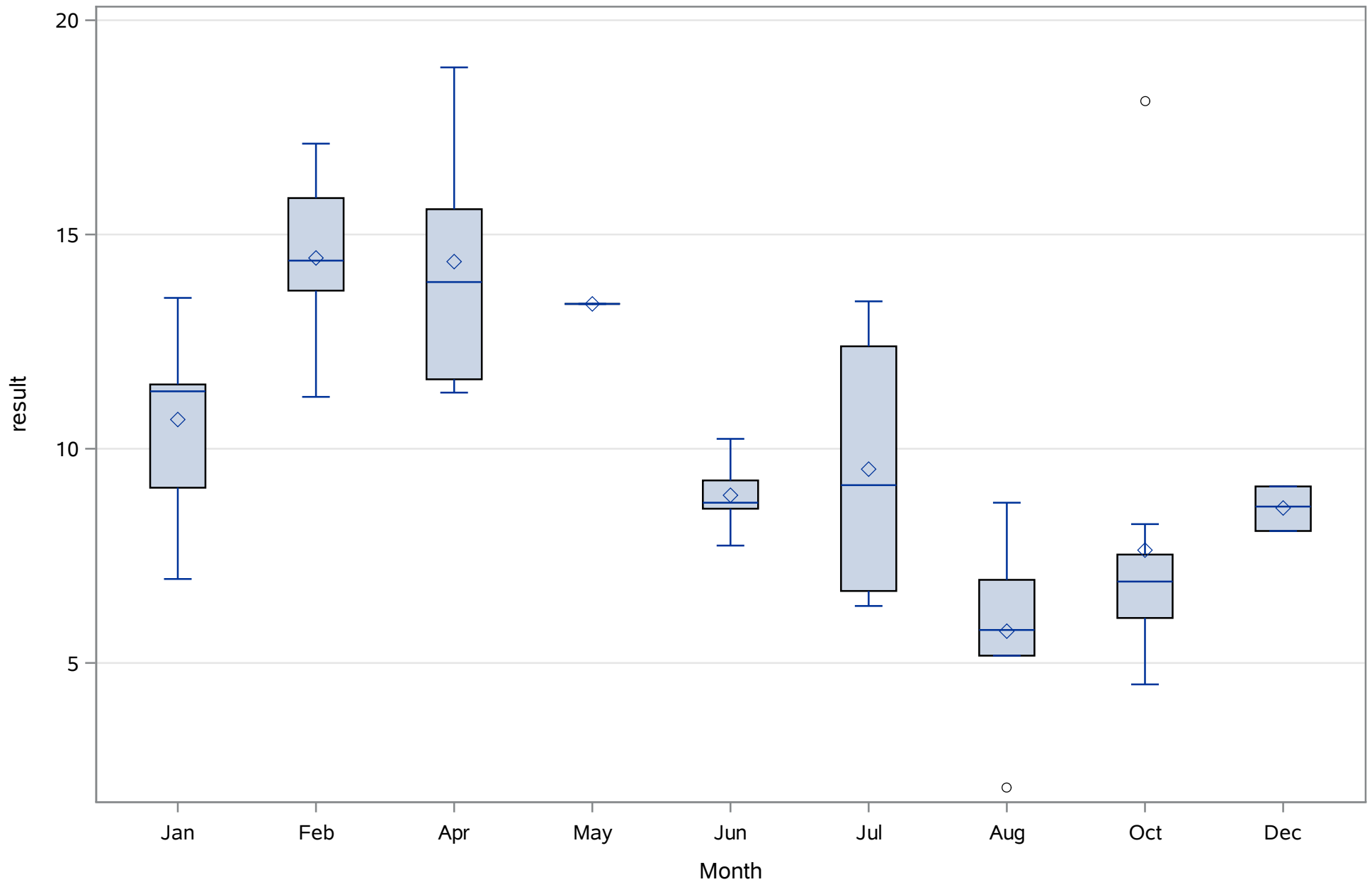
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Color (Dissolved) PCU



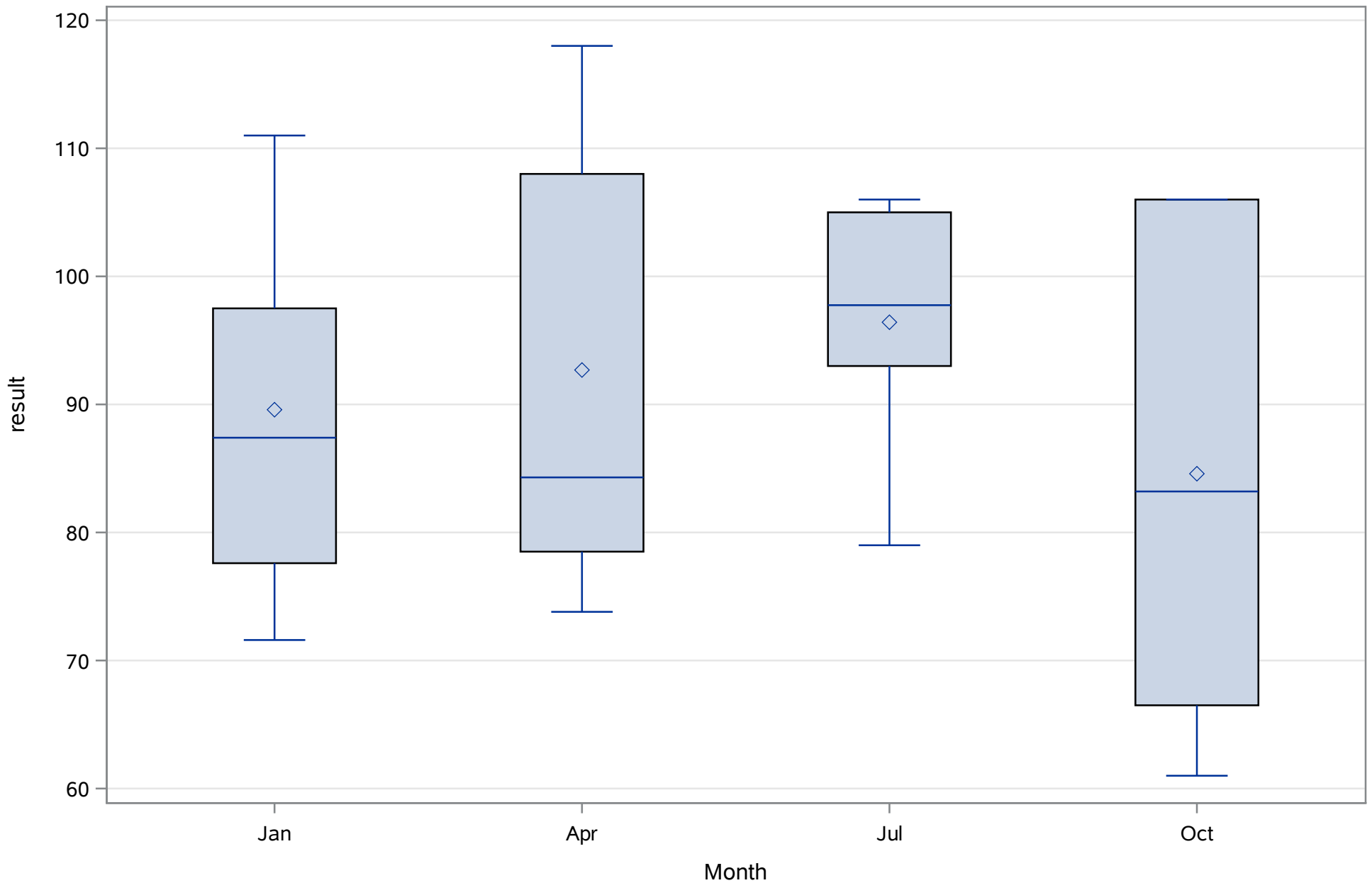
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Depth, bottom (Total) Meters



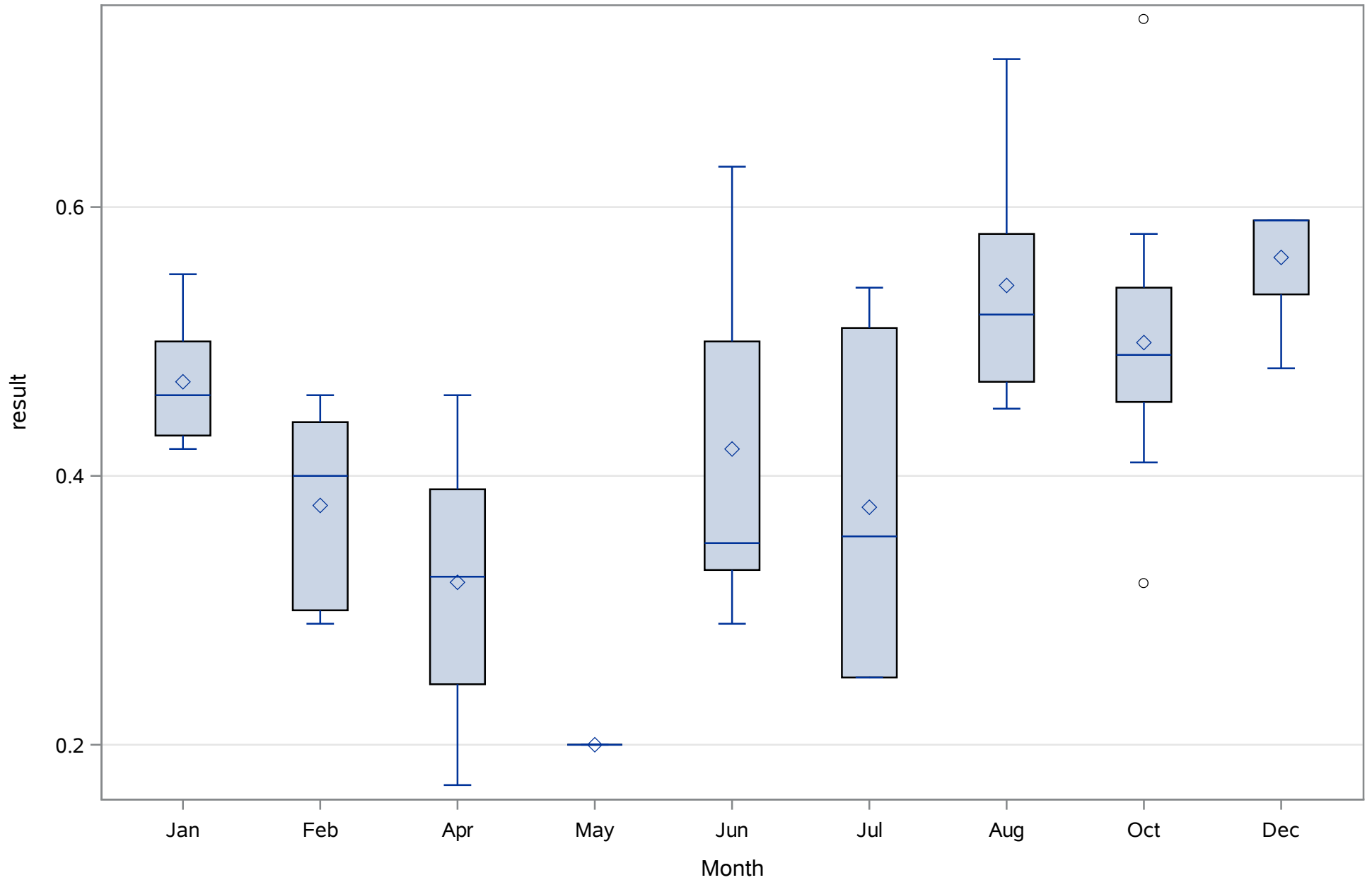
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Dissolved Oxygen (Total) mg/L



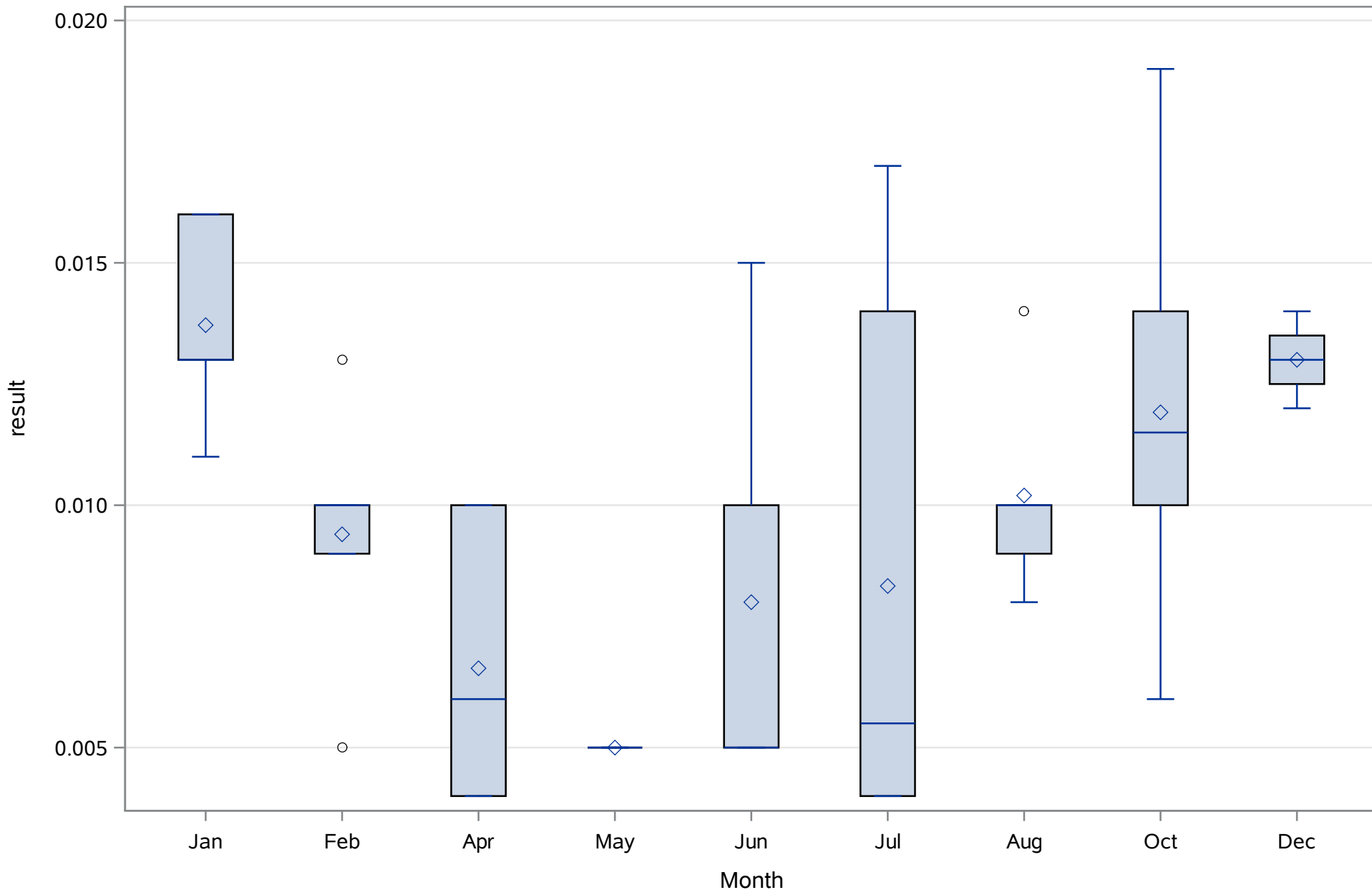
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Magnesium (Dissolved) mg/L



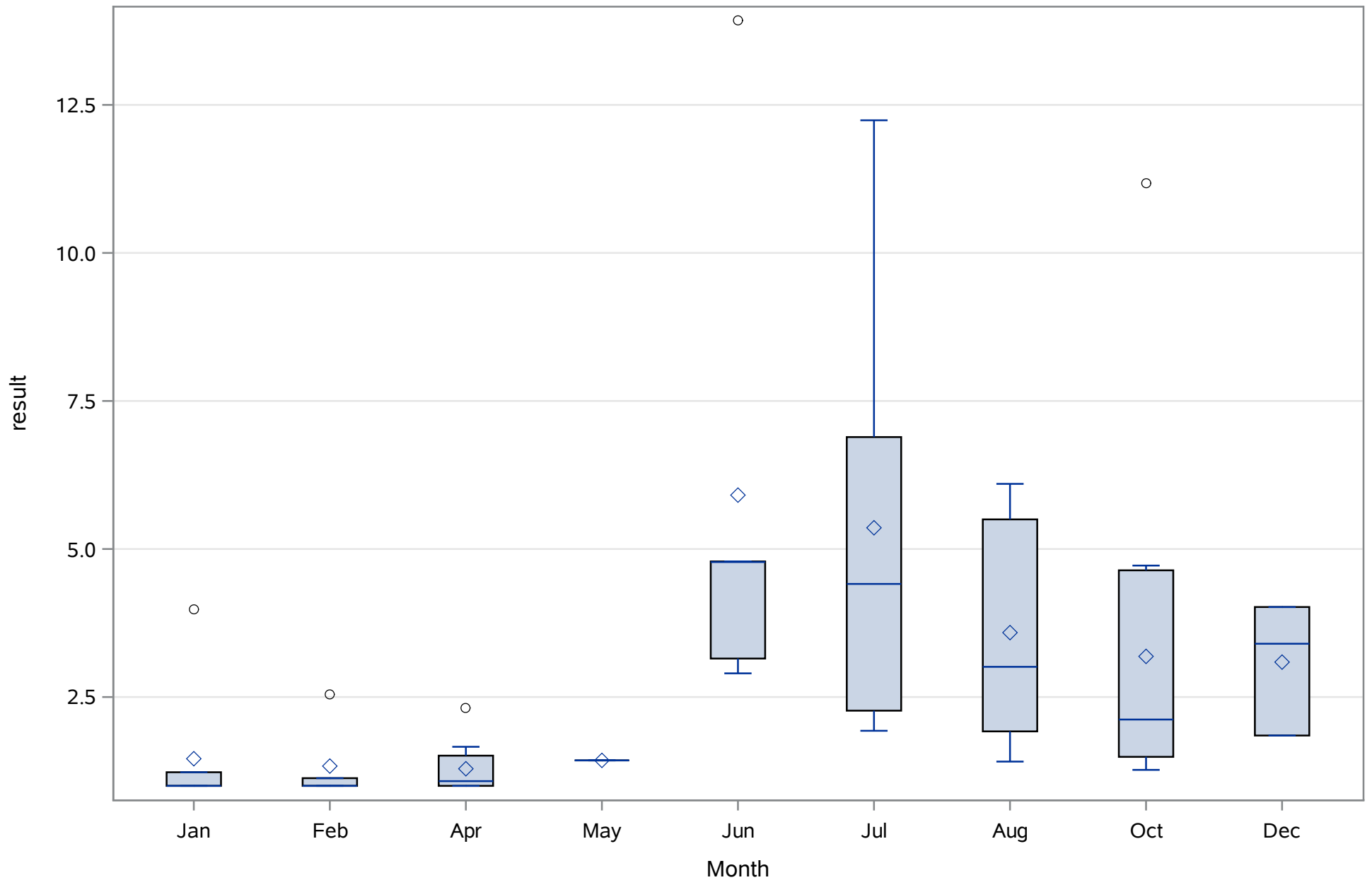
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Nitrogen- Total (Total) mg/L



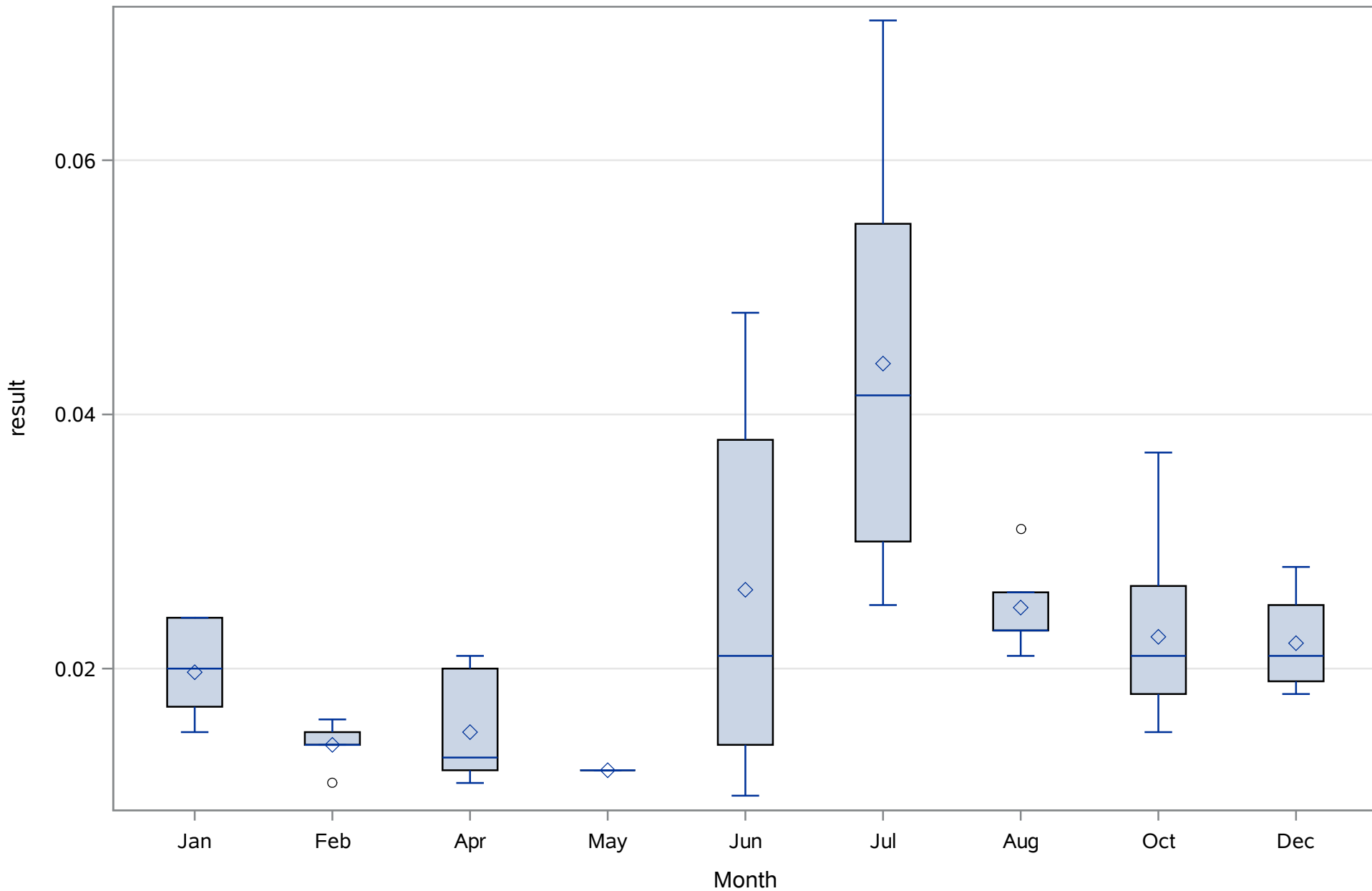
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Orthophosphate (P) (Dissolved) mg/L



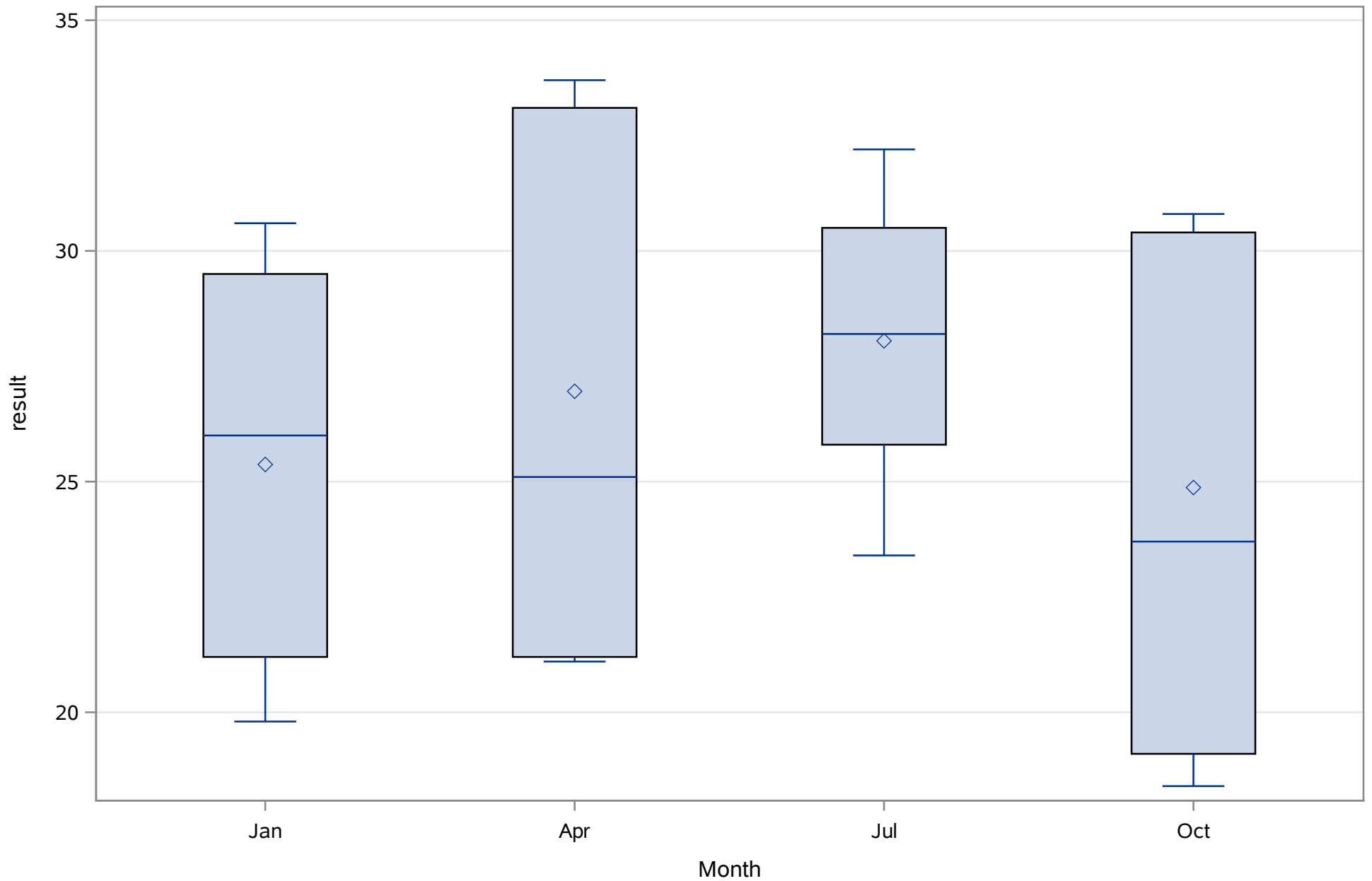
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phaeophytin (Total) ug/L



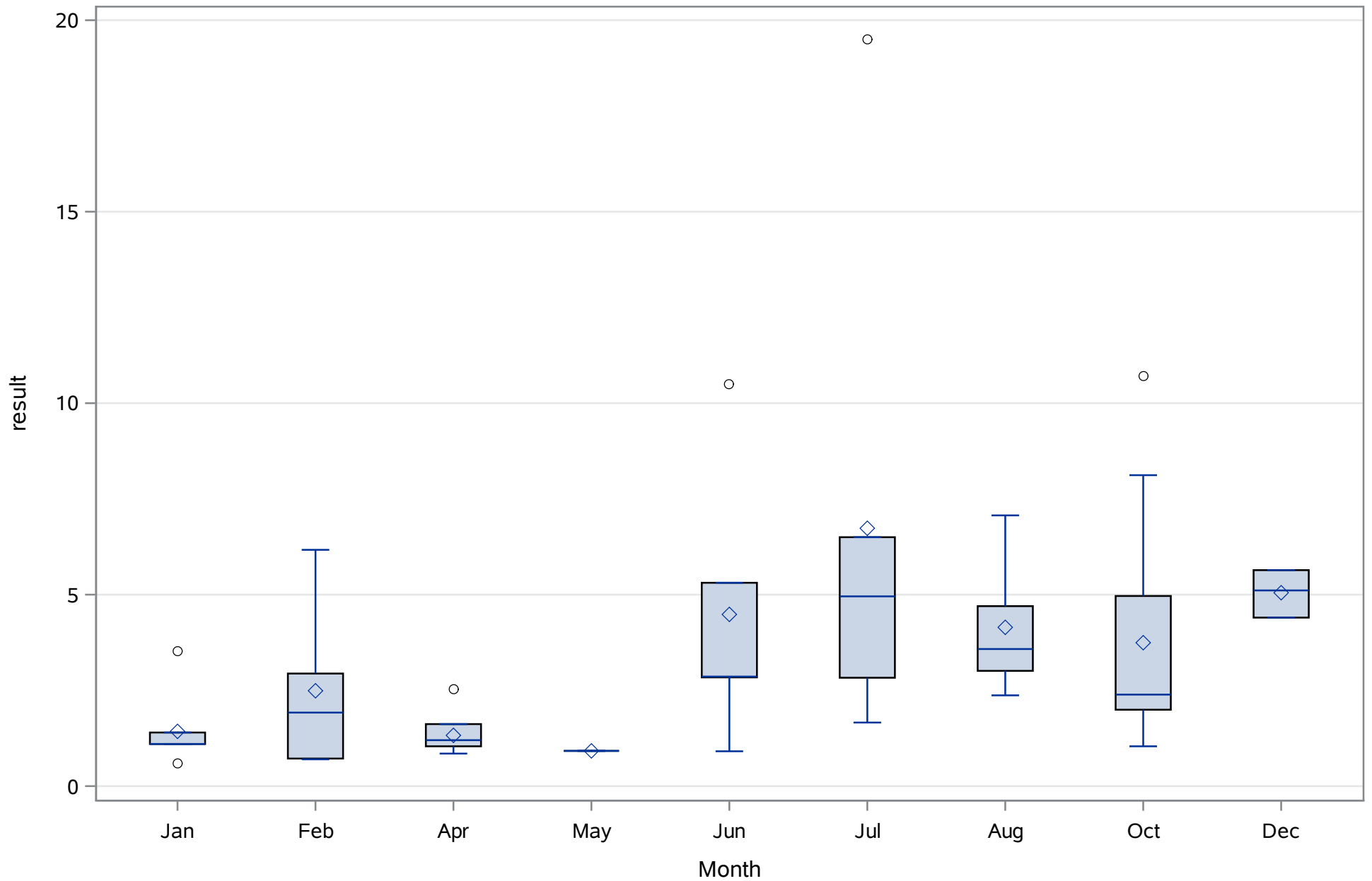
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Phosphorus- Total (Total) mg/L



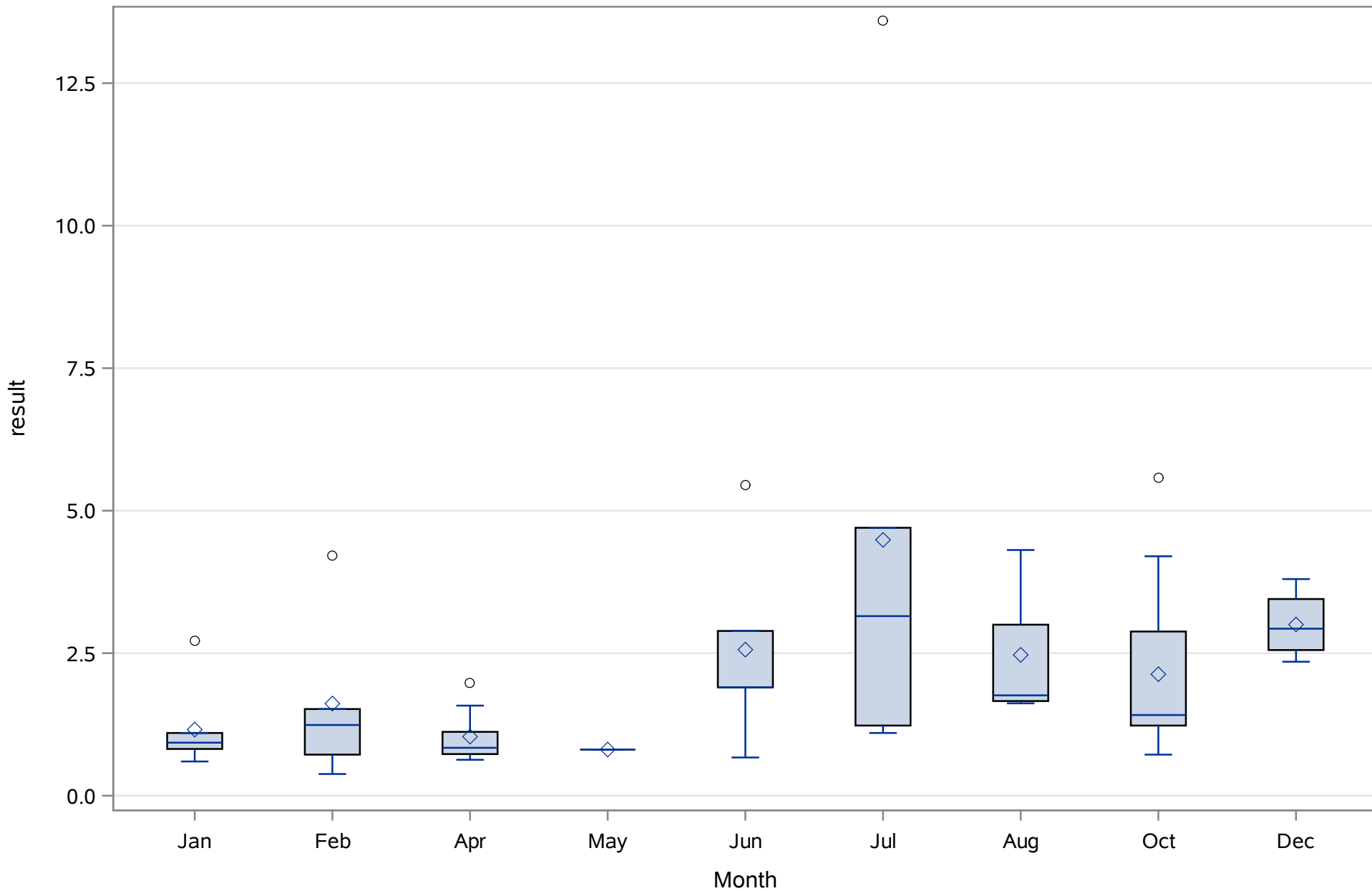
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Potassium (Dissolved) mg/L



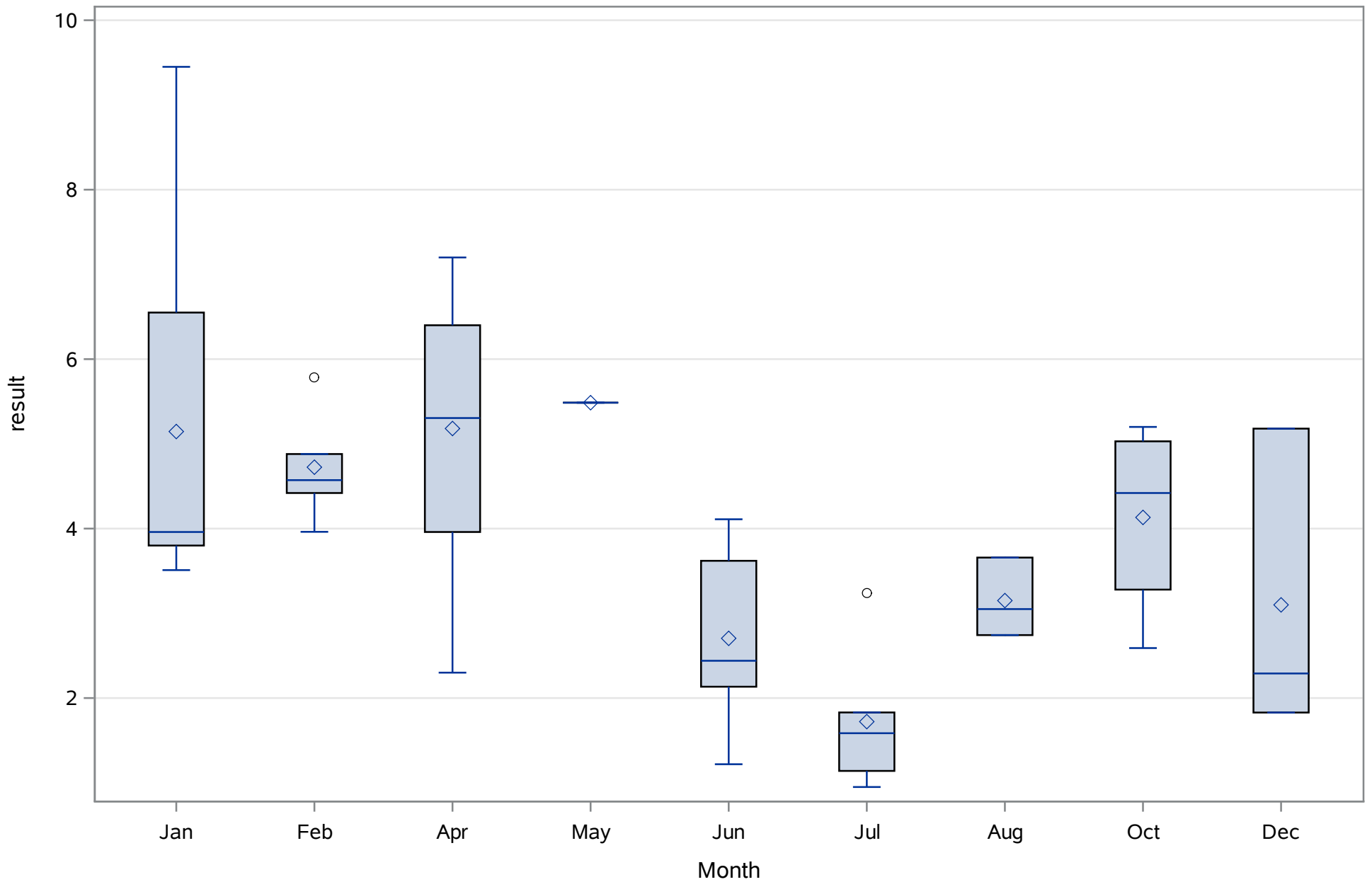
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Nonfilterable (TSS) (Total) mg/L



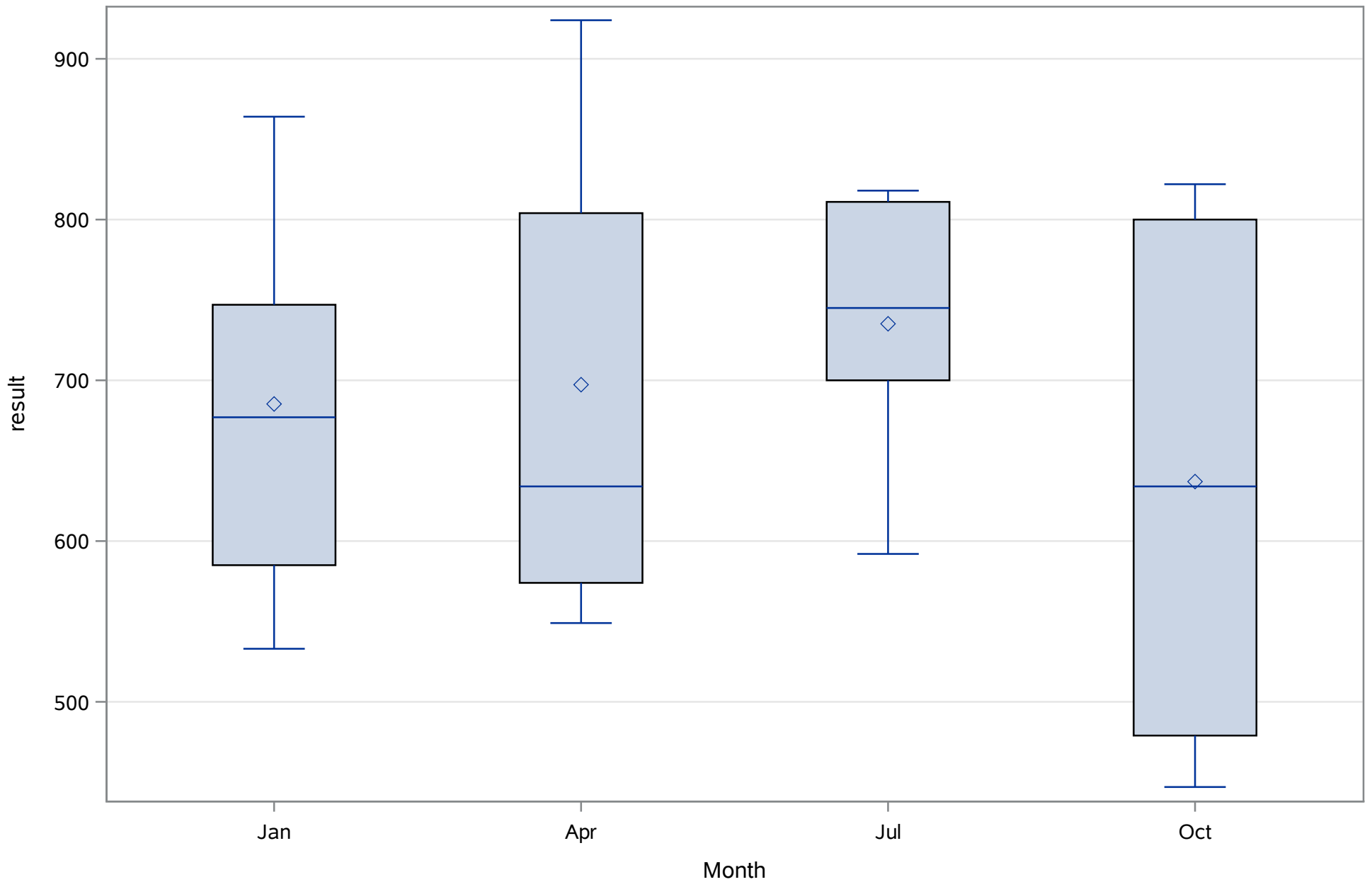
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Residues- Volatile (Total) mg/L



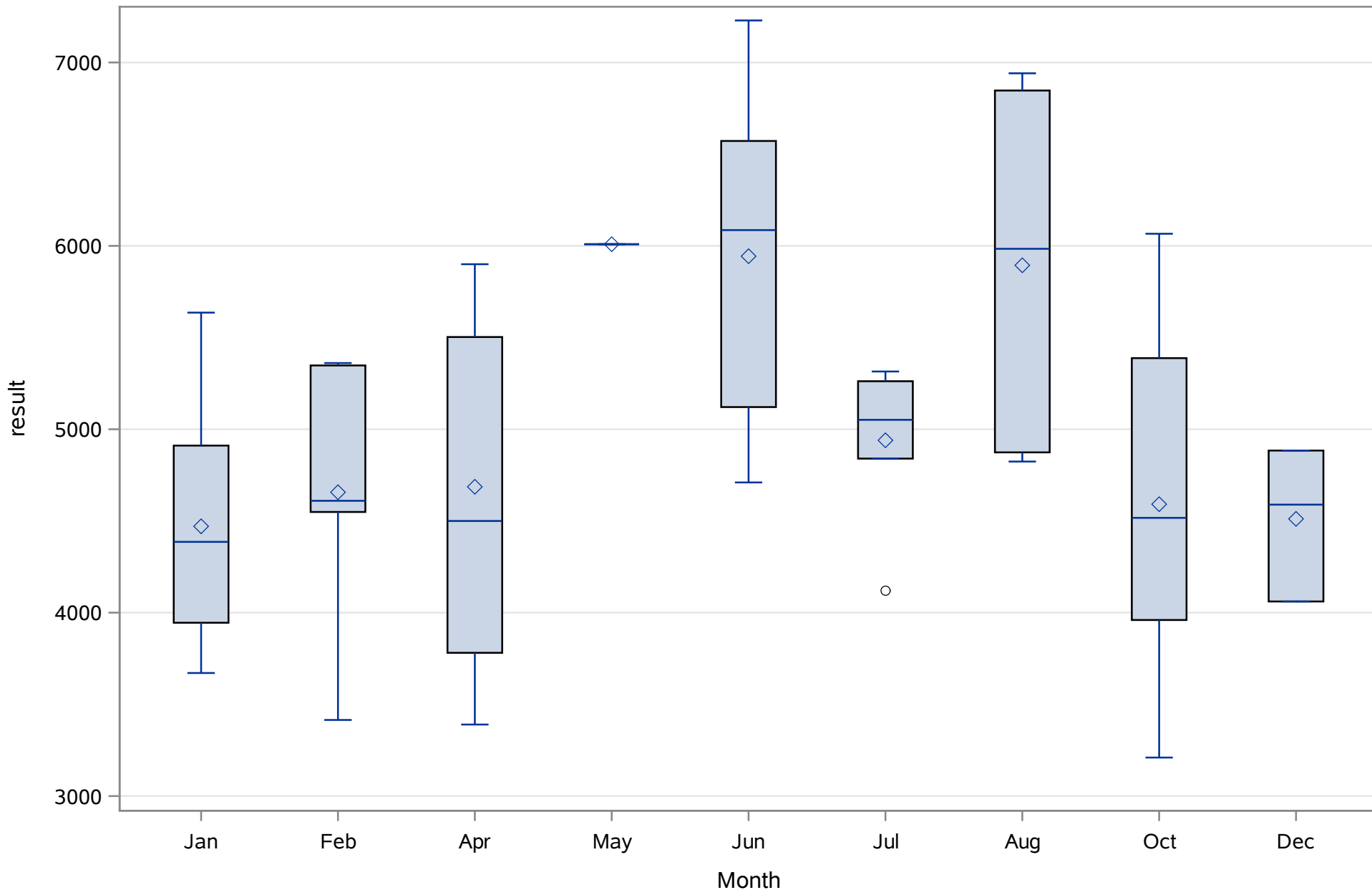
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Secchi-horizontal (Total) Meters



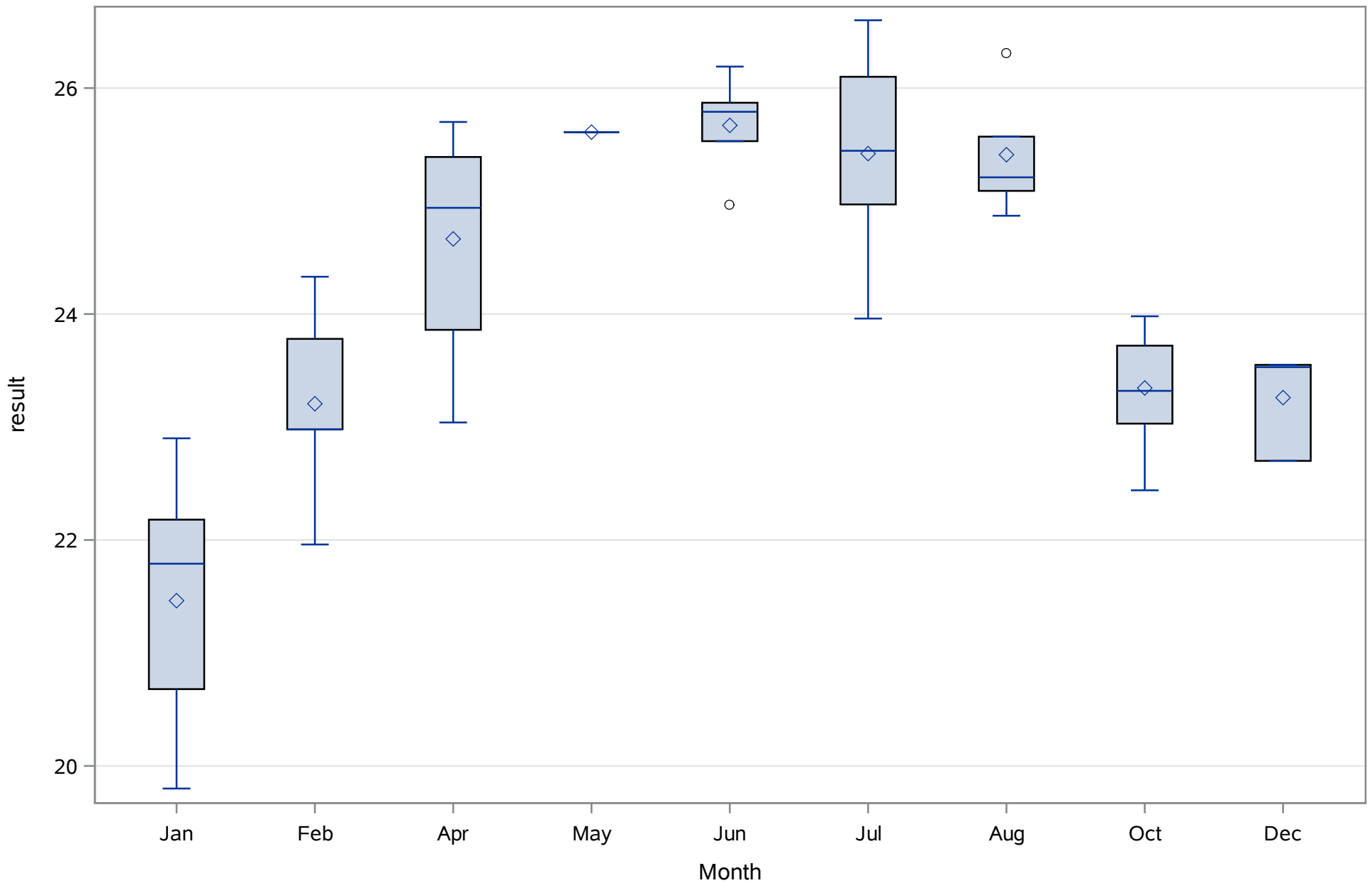
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Sodium (Dissolved) mg/L



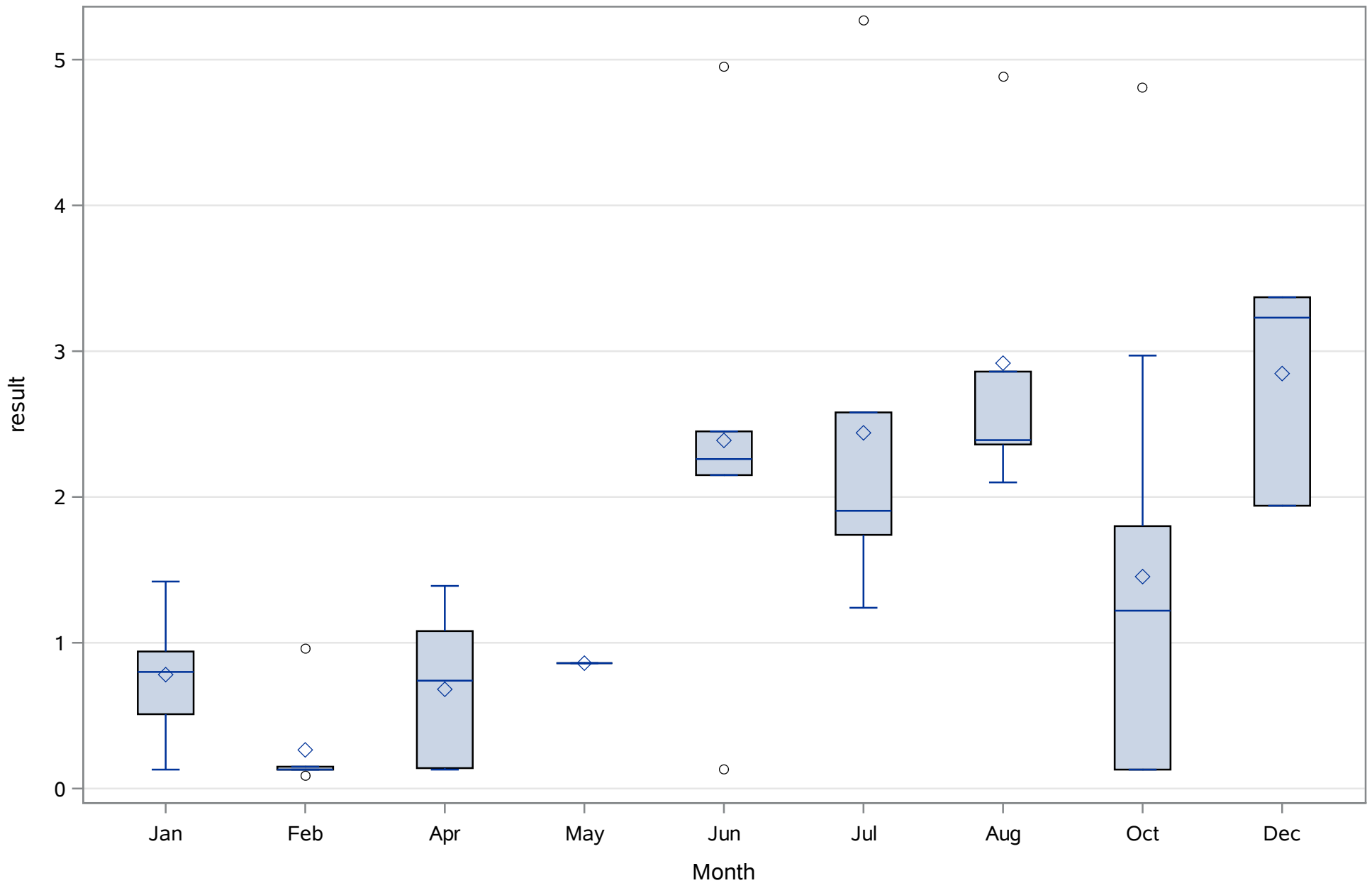
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Specific Conductance (Total) uS/cm



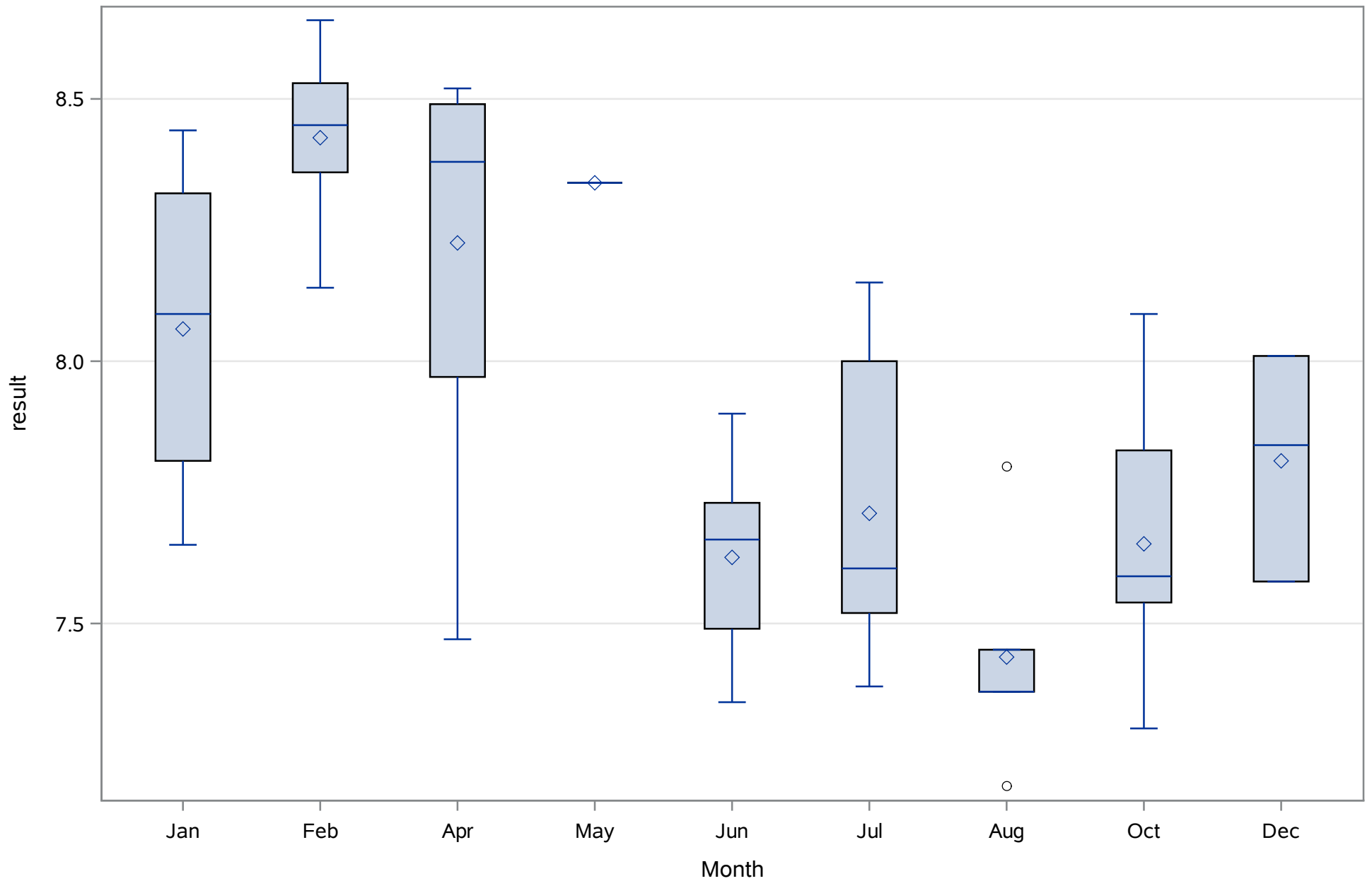
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 1
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT2005	APR2017	61	4.9%	0.0%	1.6%
Calcium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Chlorophyll a (Total)	ug/L	OCT2005	APR2017	63	3.2%	0.0%	1.6%
Chlorophyll b (Total)	ug/L	DEC2005	APR2006	3	0.0%	0.0%	0.0%
Chlorophyll c (Total)	ug/L	DEC2005	FEB2006	2	0.0%	0.0%	0.0%
Cobalt (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	OCT2006	JUN2009	19	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	FEB2006	APR2017	57	3.5%	0.0%	3.5%
Copper (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Depth (Total)	Meters	AUG2008	APR2017	39	0.0%	0.0%	2.6%
Depth, bottom (Total)	Meters	AUG2007	APR2017	48	2.1%	0.0%	2.1%
Dissolved Oxygen (Total)	mg/L	FEB2006	APR2017	66	1.5%	0.0%	1.5%
Iron (Dissolved)	ug/L	DEC2008	APR2017	37	2.7%	0.0%	2.7%
Magnesium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Molybdenum (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	OCT2005	APR2017	60	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	DEC2005	APR2017	62	1.6%	0.0%	1.6%
Nitrogen- Total (Total)	mg/L	OCT2005	APR2017	61	4.9%	0.0%	1.6%
Orthophosphate (P) (Dissolved)	mg/L	OCT2005	APR2017	60	1.7%	0.0%	1.7%
Phaeophytin (Total)	ug/L	DEC2005	APR2017	58	3.4%	0.0%	1.7%
Phosphorus- Total (Total)	mg/L	FEB2006	APR2017	61	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT2005	APR2017	58	1.7%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	OCT2005	APR2017	61	3.3%	0.0%	1.6%
Salinity (Total)	ppth	AUG2008	APR2017	39	0.0%	0.0%	0.0%
Secchi-horizontal (Total)	Meters	FEB2006	APR2017	47	0.0%	0.0%	0.0%
Secchi-vertical (Total)	Meters	AUG2007	JAN2013	19	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	FEB2006	APR2017	66	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	FEB2006	APR2017	66	0.0%	0.0%	0.0%
Total depth at monitored location	Meters	FEB2006	JUN2007	18	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Turbidity (Total)	NTU	DEC2005	APR2017	58	3.4%	0.0%	1.7%
Zinc (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
pH (Total)	SU	FEB2006	APR2017	66	3.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	0.03542623	Sum Observations	2.161
Std Deviation	0.03334589	Variance	0.00111195
Skewness	2.84486508	Kurtosis	12.0648343
Uncorrected SS	0.143273	Corrected SS	0.06671692
Coeff Variation	94.1276965	Std Error Mean	0.0042695

Basic Statistical Measures			
Location		Variability	
Mean	0.035426	Std Deviation	0.03335
Median	0.027000	Variance	0.00111
Mode	0.005000	Range	0.20600
		Interquartile Range	0.02700

Note: The mode displayed is the smallest of 6 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.297504	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.211
99%	0.211
95%	0.093
90%	0.076
75% Q3	0.042
50% Median	0.027
25% Q1	0.015
10%	0.007
5%	0.006

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.005
0% Min	0.005

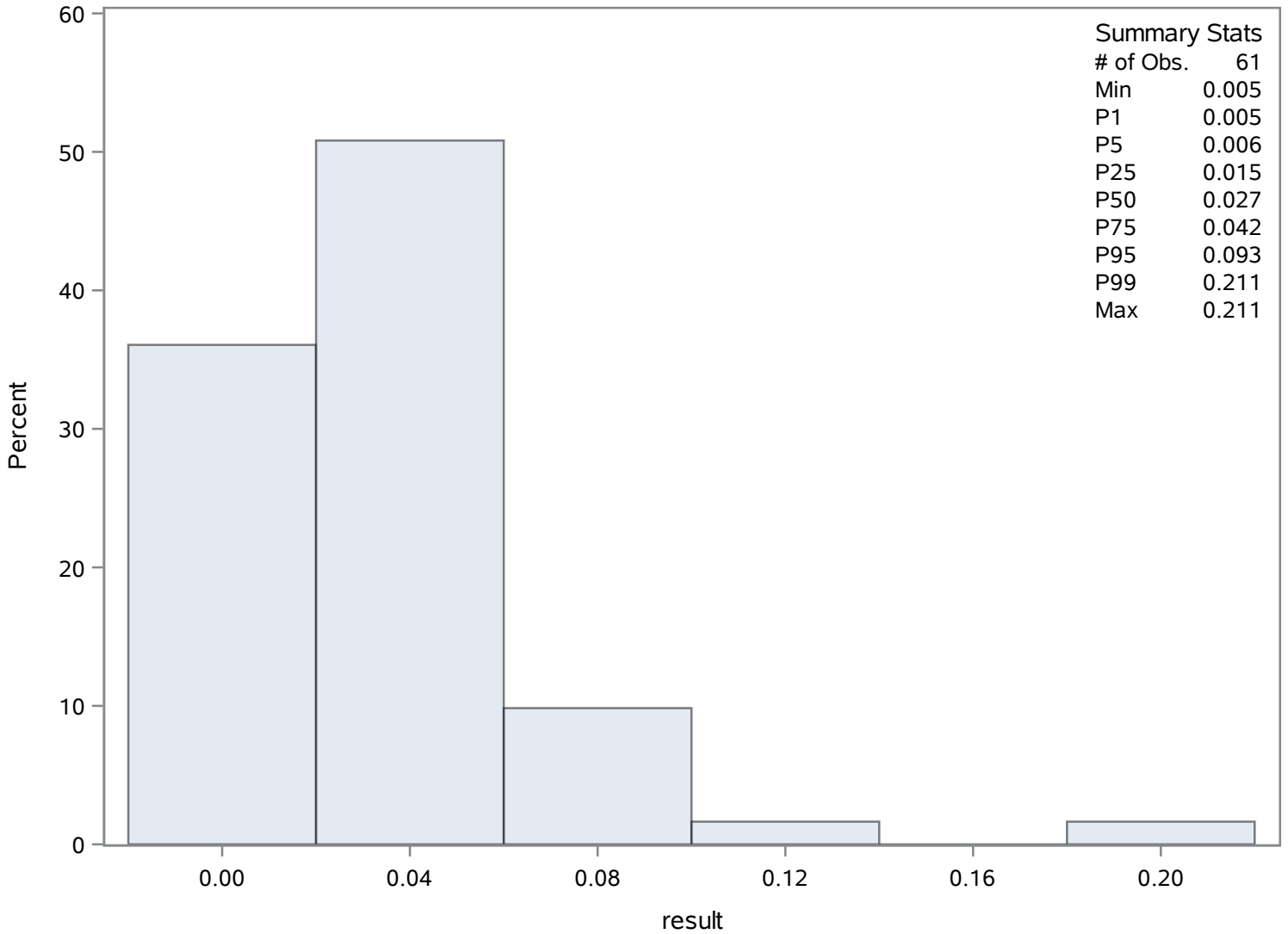
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	4	0.085	23
0.005	3	0.093	24
0.005	2	0.095	22
0.006	6	0.105	20
0.006	5	0.211	9

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 3
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	138.42963	Sum Observations	3737.6
Std Deviation	29.207465	Variance	853.076011
Skewness	0.90880686	Kurtosis	0.68358568
Uncorrected SS	539574.56	Corrected SS	22179.9763
Coeff Variation	21.0991426	Std Error Mean	5.62097926

Basic Statistical Measures			
Location		Variability	
Mean	138.4296	Std Deviation	29.20746
Median	130.0000	Variance	853.07601
Mode	121.0000	Range	121.40000
		Interquartile Range	32.00000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.62732	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	218.0
99%	218.0
95%	185.0
90%	181.0
75% Q3	153.0
50% Median	130.0
25% Q1	121.0
10%	105.0
5%	97.0

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

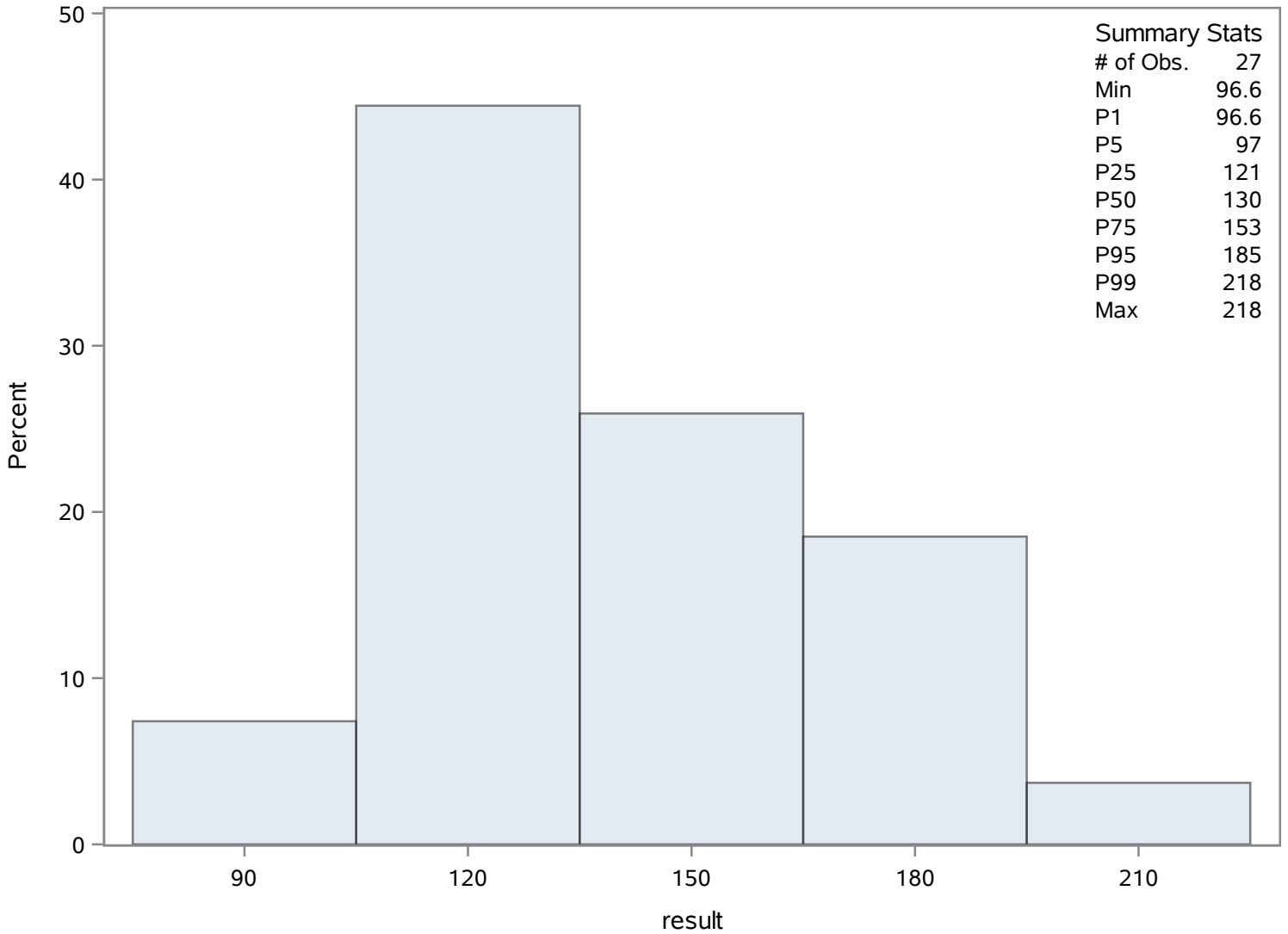
Quantiles (Definition 5)	
Level	Quantile
1%	96.6
0% Min	96.6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
96.6	86	169	80
97.0	83	178	62
105.0	79	181	81
110.0	63	185	72
113.0	82	218	68

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	4.33481481	Sum Observations	117.04
Std Deviation	1.72015064	Variance	2.95891823
Skewness	0.66953979	Kurtosis	1.57474368
Uncorrected SS	584.2786	Corrected SS	76.9318741
Coeff Variation	39.6822175	Std Error Mean	0.33104315

Basic Statistical Measures			
Location		Variability	
Mean	4.334815	Std Deviation	1.72015
Median	4.570000	Variance	2.95892
Mode	.	Range	7.86000
		Interquartile Range	2.40000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.09441	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.40
99%	9.40
95%	6.82
90%	5.81
75% Q3	5.37
50% Median	4.57
25% Q1	2.97
10%	1.86
5%	1.67
1%	1.54
0% Min	1.54

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Carbon- Total Organic (Total) mg/L

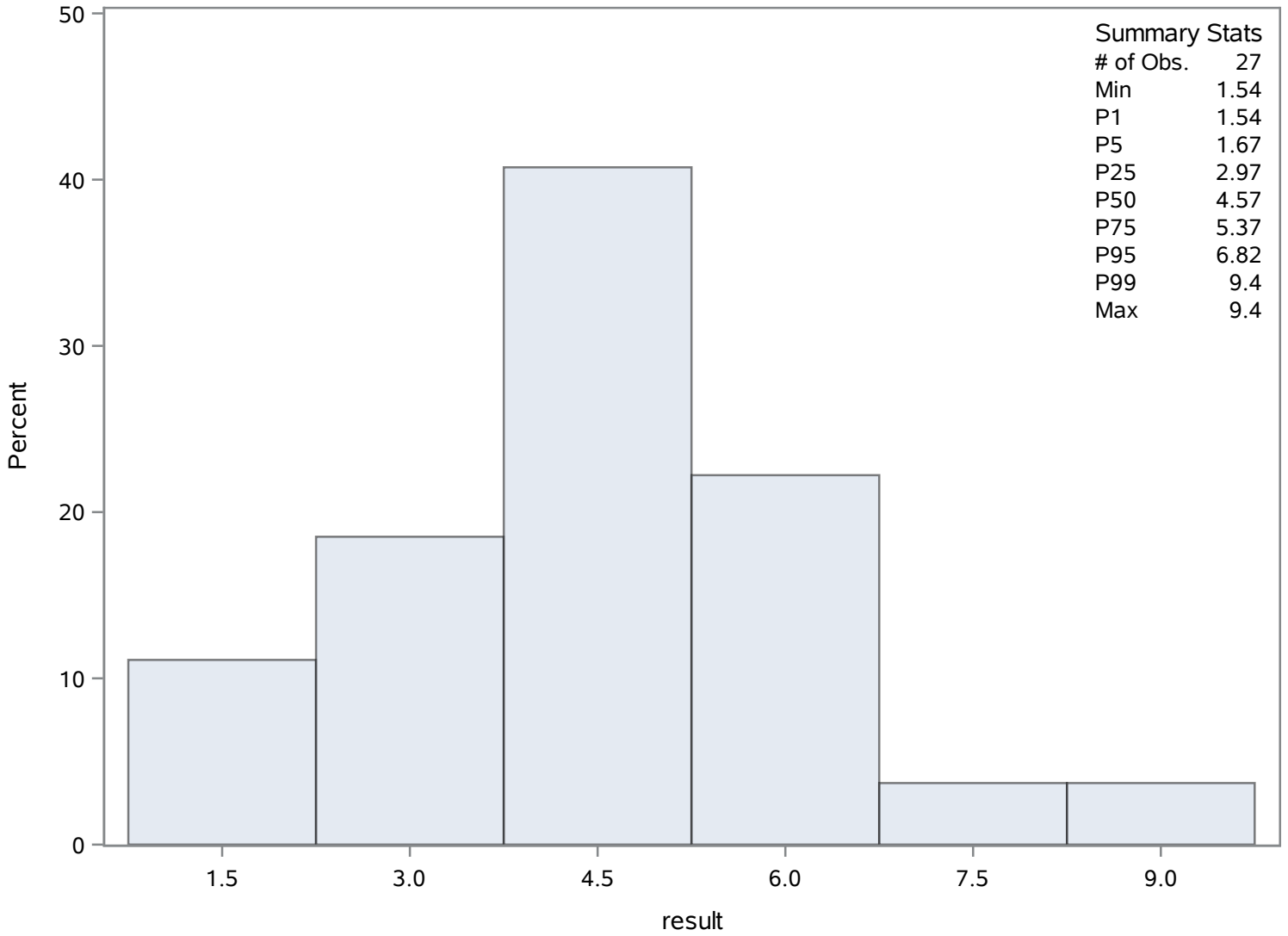
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.54	90	5.71	113
1.67	94	5.79	100
1.86	110	5.81	92
2.56	102	6.82	91
2.61	98	9.40	96

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	3.67063492	Sum Observations	231.25
Std Deviation	2.29361658	Variance	5.26067701
Skewness	1.09173534	Kurtosis	0.92746649
Uncorrected SS	1174.9963	Corrected SS	326.161975
Coeff Variation	62.4855544	Std Error Mean	0.28896853

Basic Statistical Measures			
Location		Variability	
Mean	3.670635	Std Deviation	2.29362
Median	3.240000	Variance	5.26068
Mode	1.000000	Range	10.15000
		Interquartile Range	3.10000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.70254	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.15
99%	11.15
95%	7.75
90%	6.50
75% Q3	4.87
50% Median	3.24
25% Q1	1.77
10%	1.36
5%	1.14
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Chlorophyll a (Total) ug/L

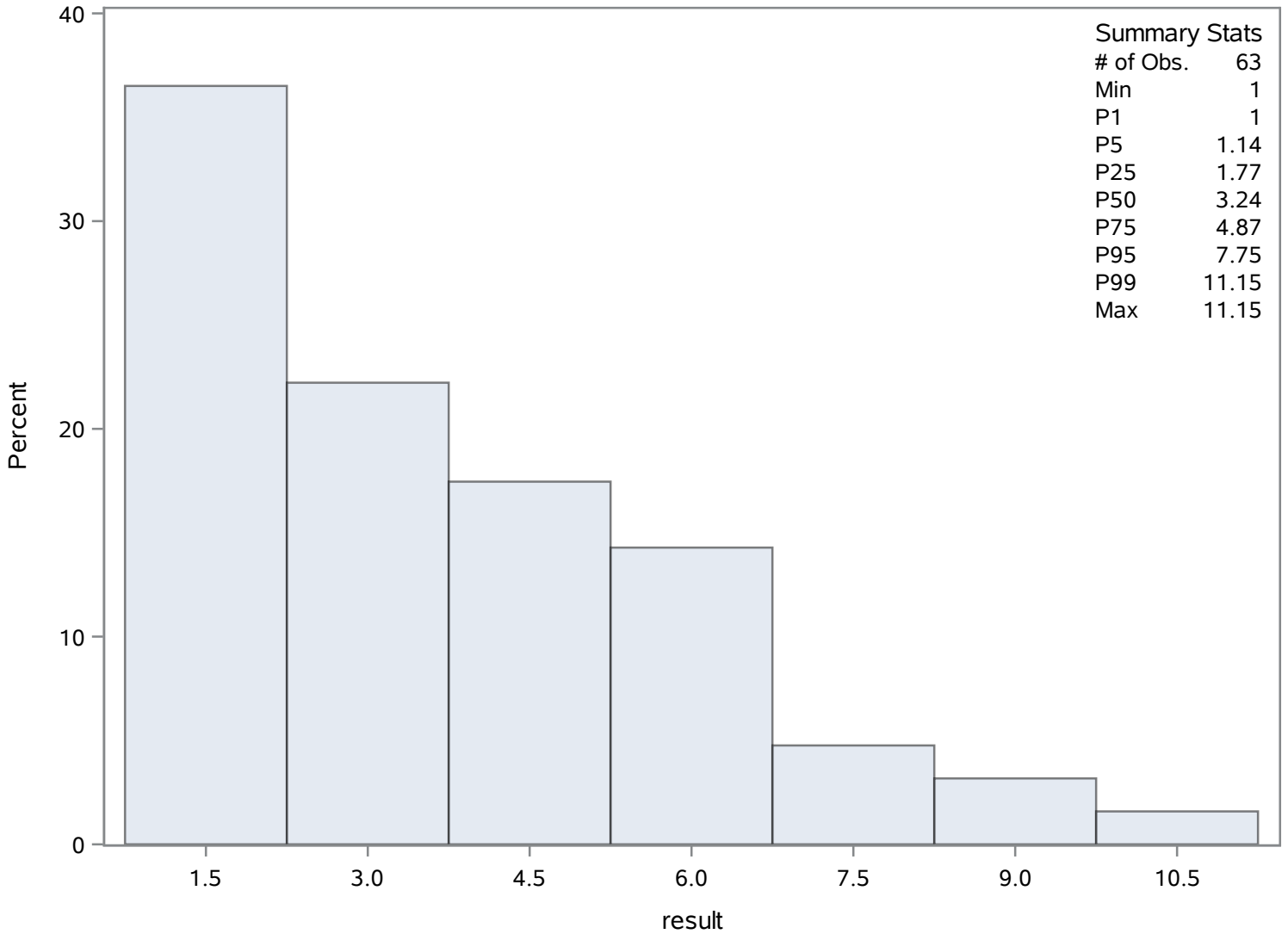
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	165	7.70	176
1.00	160	7.75	145
1.00	138	8.87	172
1.14	137	9.25	131
1.33	148	11.15	127

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	57	Sum Weights	57
Mean	30.8212281	Sum Observations	1756.81
Std Deviation	18.2332293	Variance	332.45065
Skewness	1.70714673	Kurtosis	4.05873432
Uncorrected SS	72764.2781	Corrected SS	18617.2364
Coeff Variation	59.1580233	Std Error Mean	2.41505022

Basic Statistical Measures			
Location		Variability	
Mean	30.82123	Std Deviation	18.23323
Median	29.40000	Variance	332.45065
Mode	20.00000	Range	91.10000
		Interquartile Range	20.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.76215	Pr > t 	<.0001
Sign	M	28.5	Pr >= M 	<.0001
Signed Rank	S	826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	100.0
99%	100.0
95%	75.5
90%	49.1
75% Q3	40.0
50% Median	29.4
25% Q1	19.6
10%	11.1
5%	10.0
1%	8.9
0% Min	8.9

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Color (Dissolved) PCU

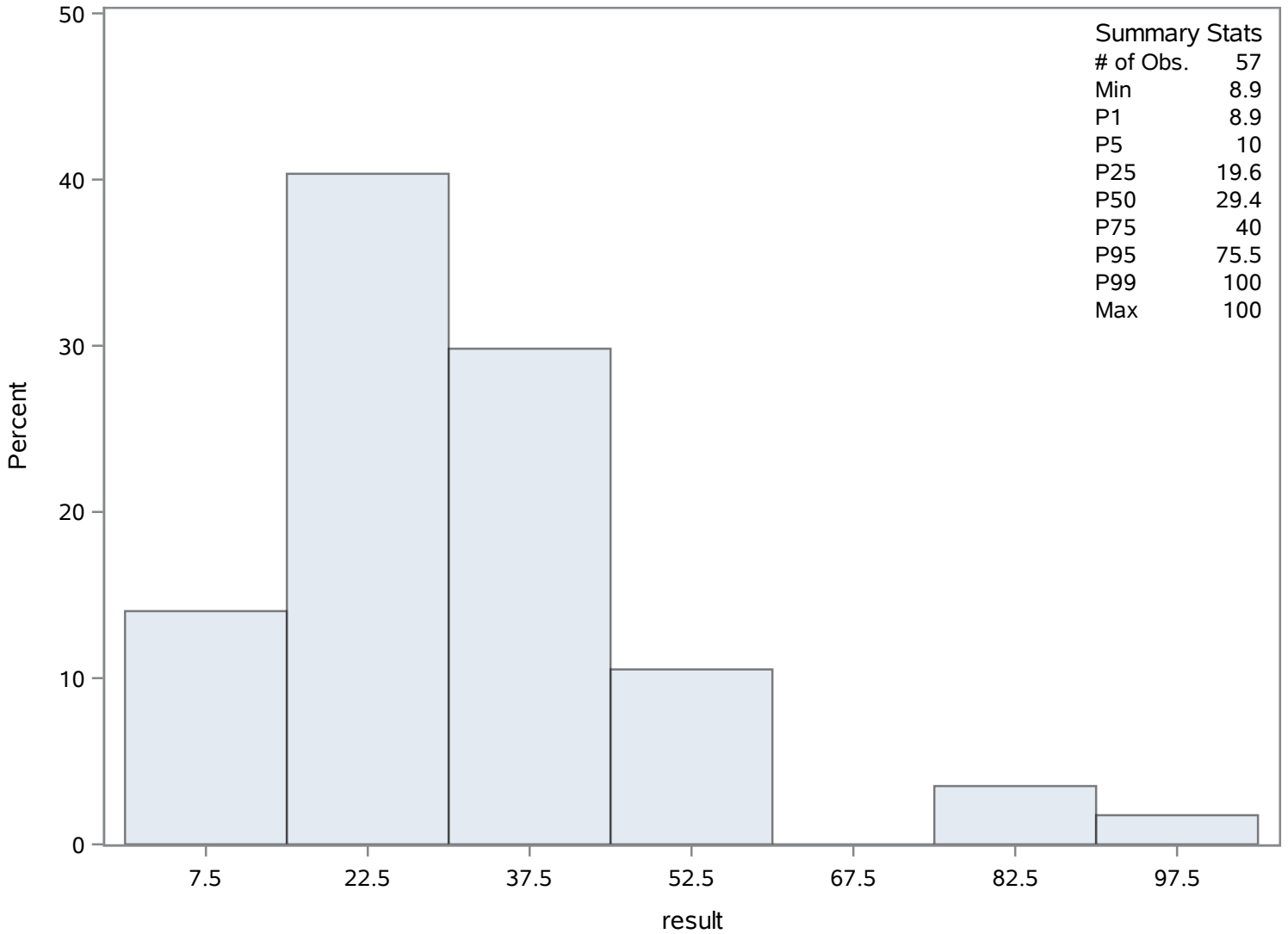
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.9	210	50.00	190
10.0	186	56.00	208
10.0	180	75.50	216
10.0	179	87.91	197
10.1	214	100.00	183

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	0.47717949	Sum Observations	18.61
Std Deviation	0.06082541	Variance	0.00369973
Skewness	-2.9356381	Kurtosis	8.75693713
Uncorrected SS	9.0209	Corrected SS	0.14058974
Coeff Variation	12.7468611	Std Error Mean	0.00973986

Basic Statistical Measures			
Location		Variability	
Mean	0.477179	Std Deviation	0.06083
Median	0.500000	Variance	0.00370
Mode	0.500000	Range	0.28000
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	48.99244	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.50
99%	0.50
95%	0.50
90%	0.50
75% Q3	0.50
50% Median	0.50
25% Q1	0.50
10%	0.38
5%	0.33
1%	0.22
0% Min	0.22

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth (Total) Meters

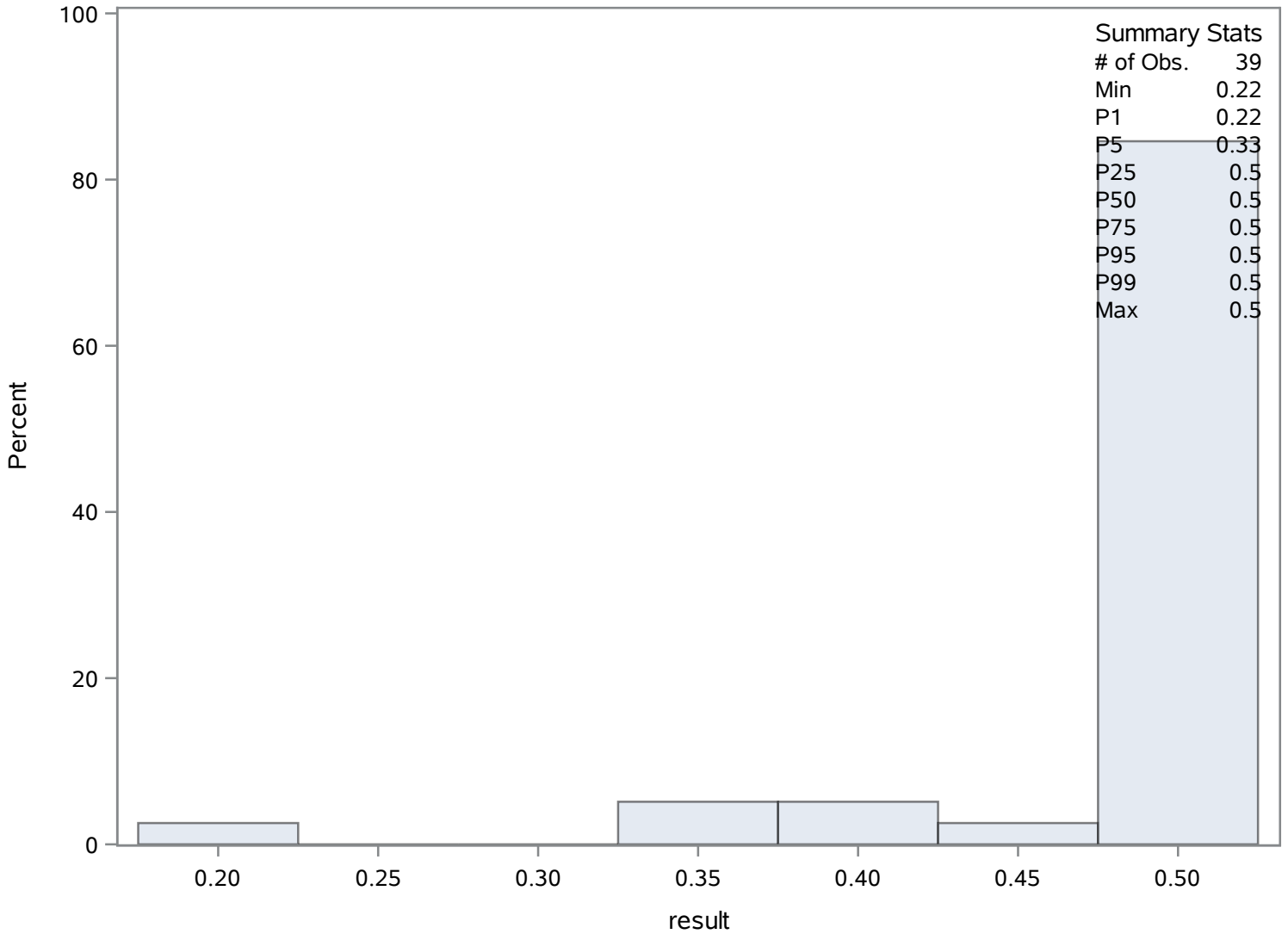
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.22	273	0.5	265
0.33	269	0.5	266
0.34	272	0.5	267
0.38	271	0.5	268
0.40	262	0.5	274

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	48	Sum Weights	48
Mean	1.53095833	Sum Observations	73.486
Std Deviation	0.84415064	Variance	0.7125903
Skewness	1.40591688	Kurtosis	2.77939602
Uncorrected SS	145.995748	Corrected SS	33.4917439
Coeff Variation	55.1387074	Std Error Mean	0.12184265

Basic Statistical Measures			
Location		Variability	
Mean	1.530958	Std Deviation	0.84415
Median	1.350000	Variance	0.71259
Mode	1.500000	Range	4.27000
		Interquartile Range	1.03200

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.56504	Pr > t 	<.0001
Sign	M	24	Pr >= M 	<.0001
Signed Rank	S	588	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.700
99%	4.700
95%	2.880
90%	2.700
75% Q3	2.000
50% Median	1.350
25% Q1	0.968
10%	0.680
5%	0.600
1%	0.430
0% Min	0.430

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth, bottom (Total) Meters

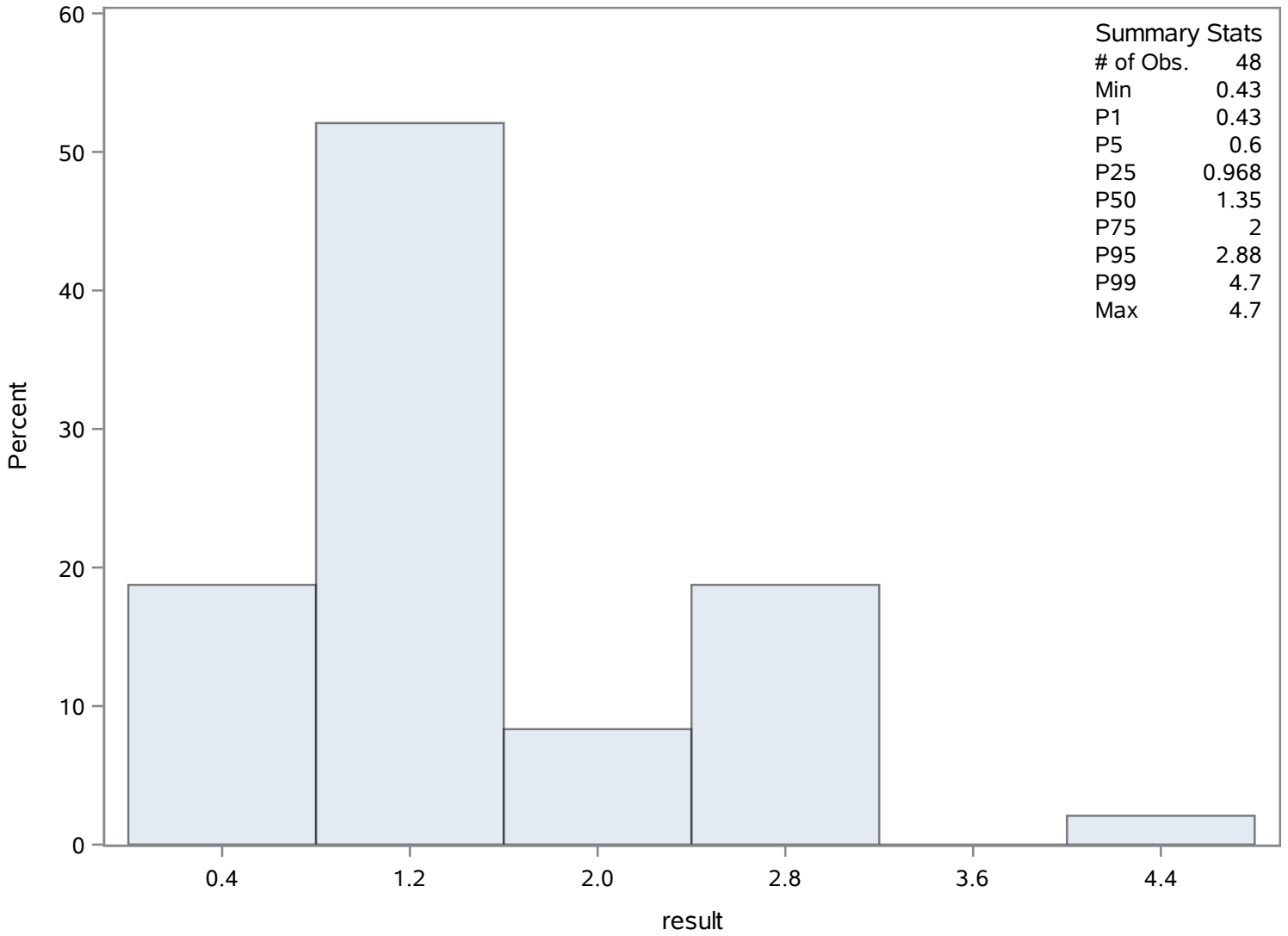
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.43	321	2.70	322
0.54	287	2.83	309
0.60	291	2.88	311
0.66	317	3.00	284
0.68	320	4.70	312

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth, bottom (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	66	Sum Weights	66
Mean	6.27848485	Sum Observations	414.38
Std Deviation	2.38470978	Variance	5.68684075
Skewness	2.4107759	Kurtosis	11.9737469
Uncorrected SS	2971.3232	Corrected SS	369.644648
Coeff Variation	37.9822495	Std Error Mean	0.29353748

Basic Statistical Measures			
Location		Variability	
Mean	6.278485	Std Deviation	2.38471
Median	5.950000	Variance	5.68684
Mode	5.690000	Range	16.90000
		Interquartile Range	2.04000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.38904	Pr > t 	<.0001
Sign	M	33	Pr >= M 	<.0001
Signed Rank	S	1105.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	19.07
99%	19.07
95%	9.56
90%	8.89
75% Q3	7.12
50% Median	5.95
25% Q1	5.08
10%	3.42
5%	3.35
1%	2.17
0% Min	2.17

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Dissolved Oxygen (Total) mg/L

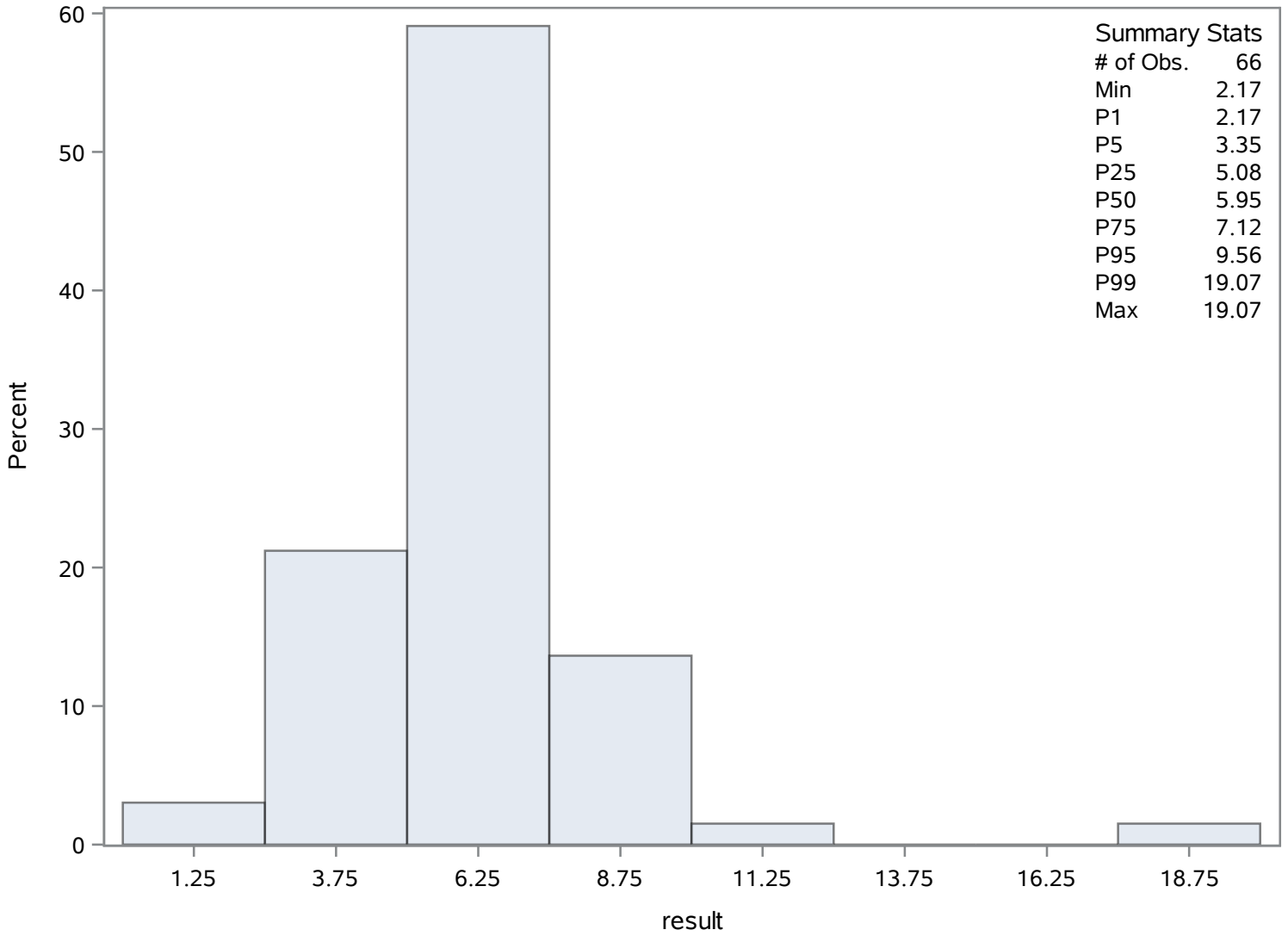
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.17	328	8.96	324
2.17	327	9.56	363
3.15	349	9.86	375
3.35	340	11.33	368
3.35	339	19.07	374

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	29.5502703	Sum Observations	1093.36
Std Deviation	19.7596013	Variance	390.441842
Skewness	1.43782879	Kurtosis	2.23494947
Uncorrected SS	46364.9898	Corrected SS	14055.9063
Coeff Variation	66.8677514	Std Error Mean	3.24845844

Basic Statistical Measures			
Location		Variability	
Mean	29.55027	Std Deviation	19.75960
Median	22.60000	Variance	390.44184
Mode	12.50000	Range	88.77000
		Interquartile Range	21.90000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.096706	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	94.30
99%	94.30
95%	76.30
90%	56.90
75% Q3	39.20
50% Median	22.60
25% Q1	17.30
10%	10.50
5%	7.50
1%	5.53
0% Min	5.53

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Iron (Dissolved) ug/L

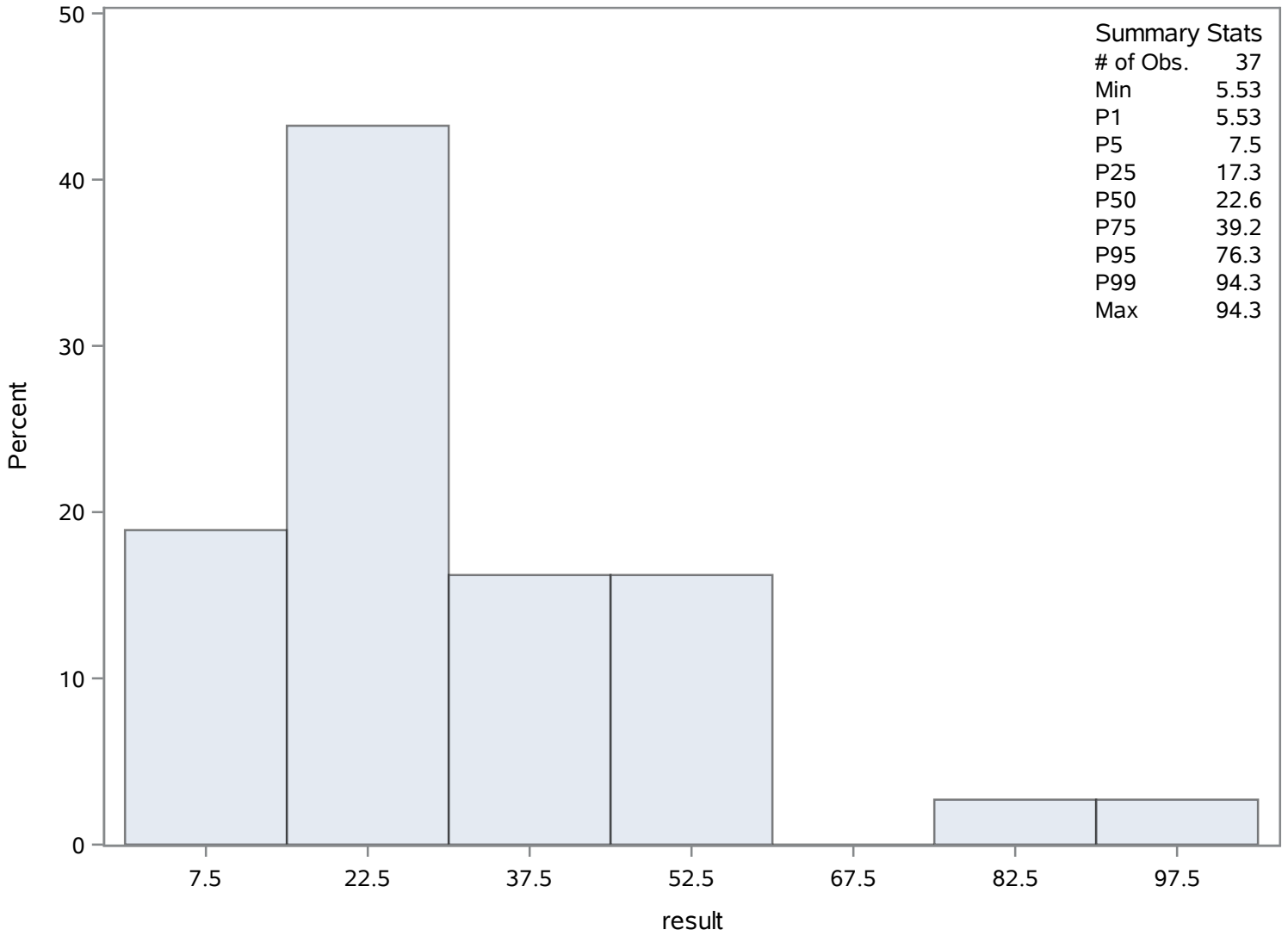
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.53	400	49.5	398
7.50	404	56.9	410
7.83	390	58.7	419
10.50	402	76.3	406
12.50	403	94.3	423

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	259.666667	Sum Observations	7011
Std Deviation	92.8692215	Variance	8624.69231
Skewness	0.84619709	Kurtosis	-0.017748
Uncorrected SS	2044765	Corrected SS	224242
Coeff Variation	35.7647836	Std Error Mean	17.87269

Basic Statistical Measures			
Location		Variability	
Mean	259.6667	Std Deviation	92.86922
Median	228.0000	Variance	8625
Mode	.	Range	350.00000
		Interquartile Range	112.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.52868	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	486
99%	486
95%	426
90%	400
75% Q3	311
50% Median	228
25% Q1	199
10%	148
5%	141
1%	136
0% Min	136

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Magnesium (Dissolved) mg/L

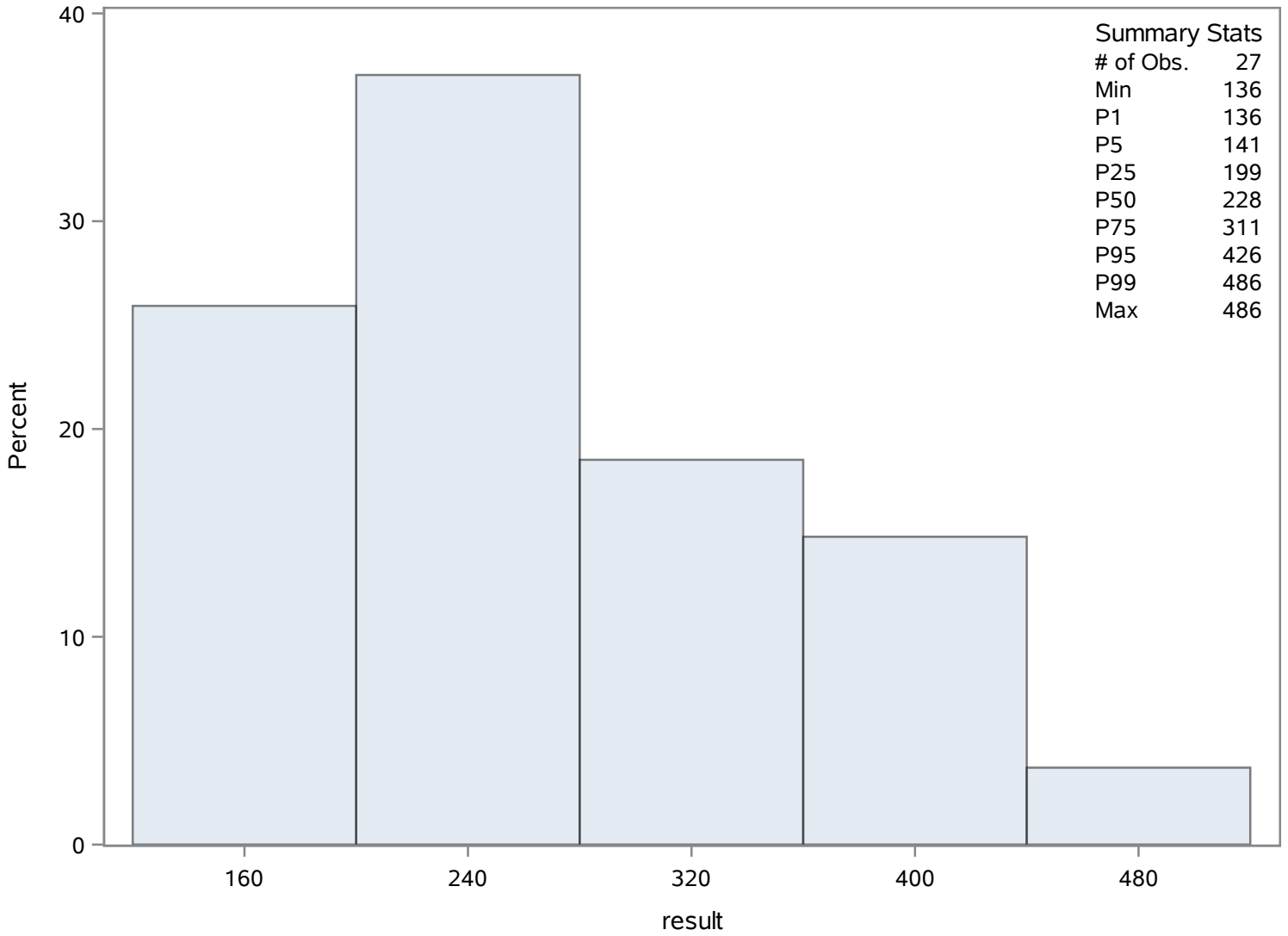
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
136	450	374	429
141	443	398	426
148	447	400	436
165	427	426	445
174	440	486	432

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	0.10923333	Sum Observations	6.554
Std Deviation	0.07896328	Variance	0.0062352
Skewness	0.57351801	Kurtosis	-0.761989
Uncorrected SS	1.083792	Corrected SS	0.36787673
Coeff Variation	72.2886257	Std Error Mean	0.01019412

Basic Statistical Measures			
Location		Variability	
Mean	0.109233	Std Deviation	0.07896
Median	0.096000	Variance	0.00624
Mode	0.014000	Range	0.27000
		Interquartile Range	0.11850

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.71533	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.2780
99%	0.2780
95%	0.2600
90%	0.2350
75% Q3	0.1610
50% Median	0.0960
25% Q1	0.0425
10%	0.0140
5%	0.0105

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.0080
0% Min	0.0080

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.008	459	0.244	481
0.009	458	0.255	507
0.010	496	0.265	487
0.011	505	0.268	455
0.012	478	0.278	476

Chassahowitzka River - Fixed Station

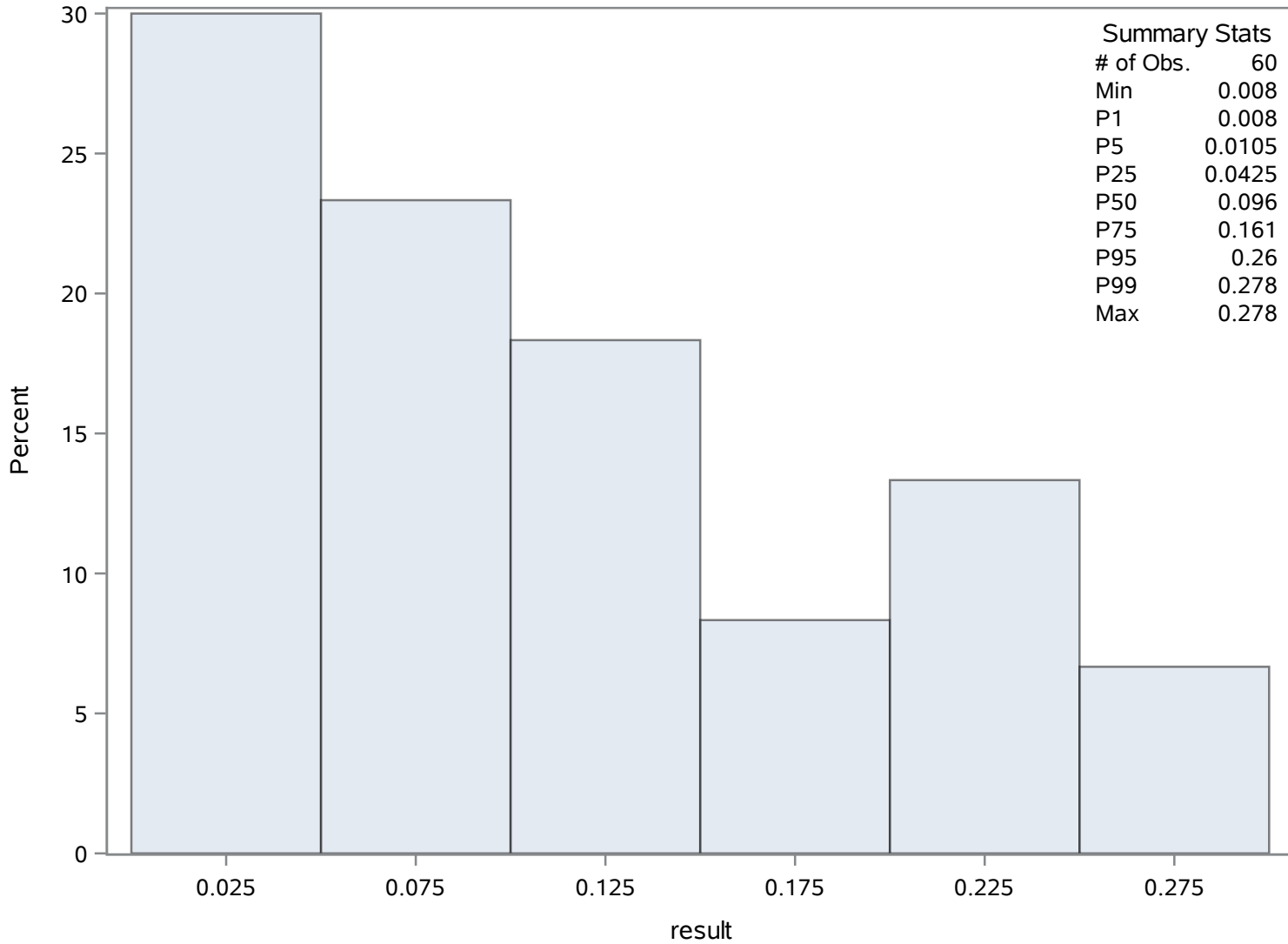
Source: Coastal Rivers

Chassahowitzka River CV 3

Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	0.00662903	Sum Observations	0.411
Std Deviation	0.00239695	Variance	5.74537E-6
Skewness	1.96837597	Kurtosis	6.96388379
Uncorrected SS	0.003075	Corrected SS	0.00035047
Coeff Variation	36.1583809	Std Error Mean	0.00030441

Basic Statistical Measures			
Location		Variability	
Mean	0.006629	Std Deviation	0.00240
Median	0.006000	Variance	5.74537E-6
Mode	0.005000	Range	0.01400
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.77644	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.018
99%	0.018
95%	0.010
90%	0.009
75% Q3	0.008
50% Median	0.006
25% Q1	0.005
10%	0.004
5%	0.004
1%	0.004
0% Min	0.004

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrite (N) (Total) mg/L

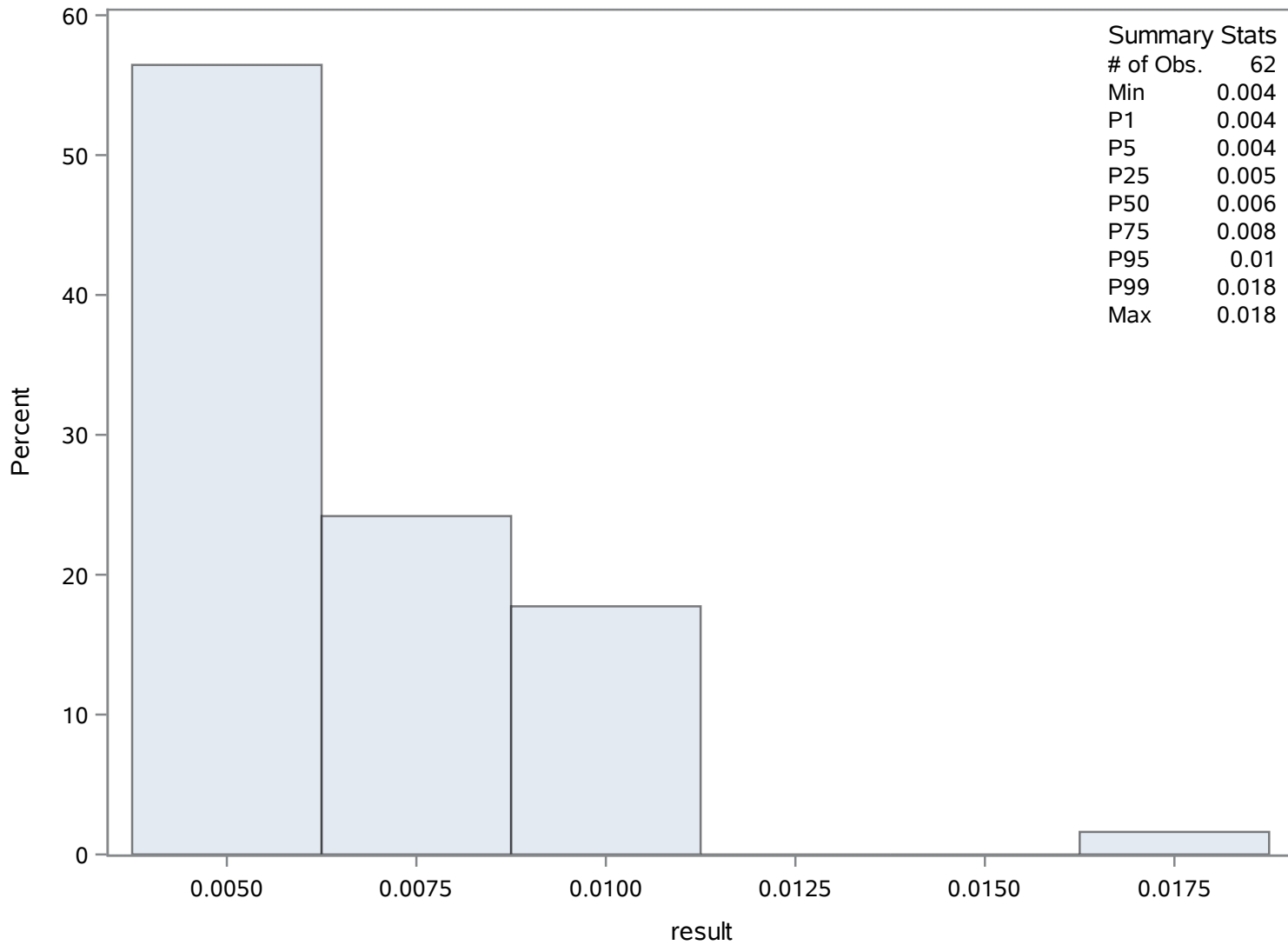
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	570	0.010	541
0.004	567	0.010	551
0.004	566	0.011	522
0.004	565	0.011	546
0.004	563	0.018	536

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	0.41836066	Sum Observations	25.52
Std Deviation	0.12961713	Variance	0.0168006
Skewness	1.1210286	Kurtosis	5.68251334
Uncorrected SS	11.6846	Corrected SS	1.00803607
Coeff Variation	30.9821516	Std Error Mean	0.01659577

Basic Statistical Measures			
Location		Variability	
Mean	0.418361	Std Deviation	0.12962
Median	0.400000	Variance	0.01680
Mode	0.470000	Range	0.93000
		Interquartile Range	0.12000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.20887	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.96
99%	0.96
95%	0.56
90%	0.53
75% Q3	0.47
50% Median	0.40
25% Q1	0.35
10%	0.30
5%	0.26
1%	0.03
0% Min	0.03

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrogen- Total (Total) mg/L

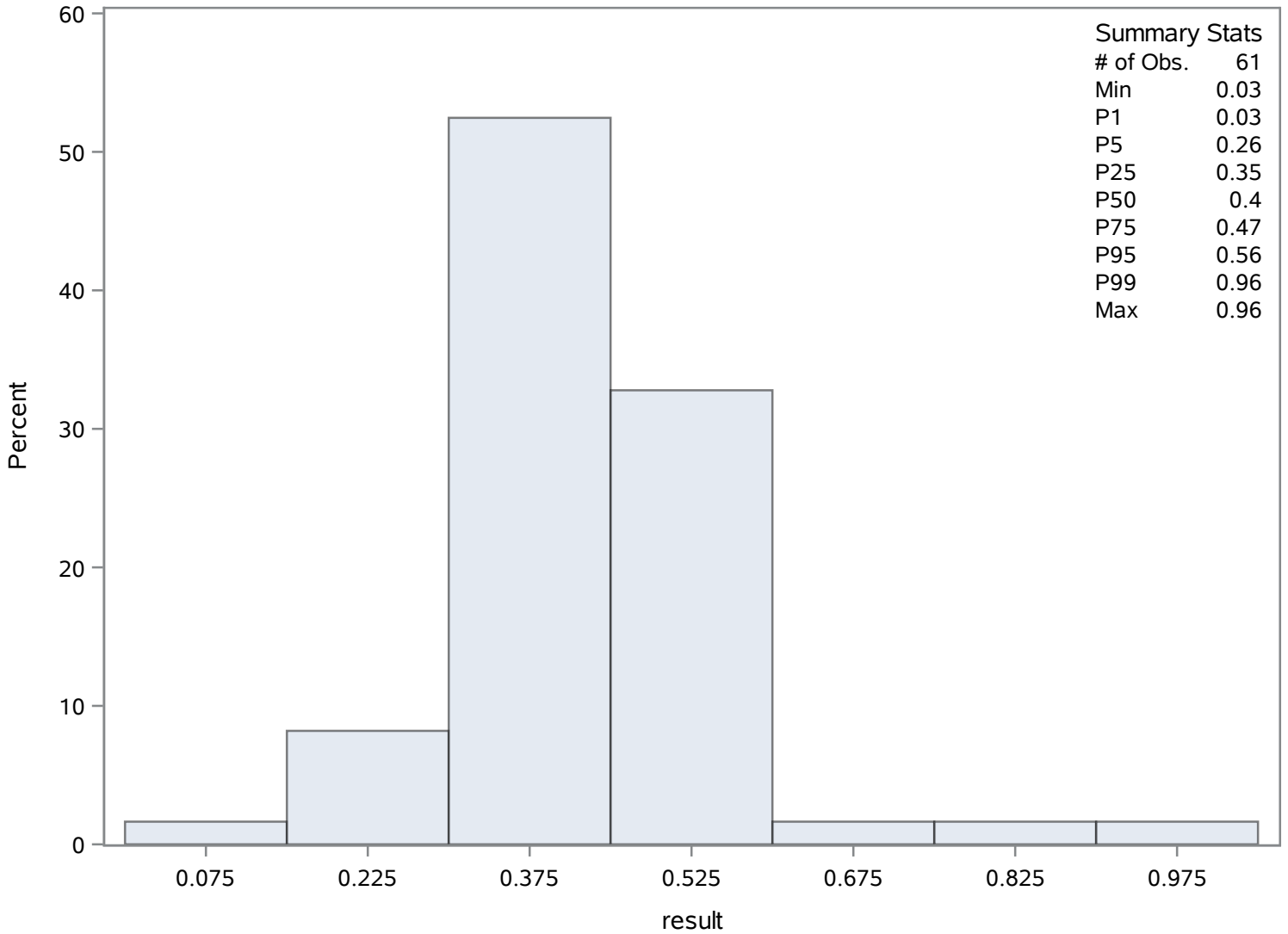
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.03	601	0.56	602
0.23	600	0.56	603
0.26	635	0.61	597
0.26	618	0.79	596
0.26	586	0.96	582

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	0.00943	Sum Observations	0.5658
Std Deviation	0.0034966	Variance	0.00001223
Skewness	1.21400488	Kurtosis	4.01888065
Uncorrected SS	0.00605684	Corrected SS	0.00072135
Coeff Variation	37.079521	Std Error Mean	0.00045141

Basic Statistical Measures			
Location		Variability	
Mean	0.009430	Std Deviation	0.00350
Median	0.010000	Variance	0.0000122
Mode	0.010000	Range	0.02000
		Interquartile Range	0.00400

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	20.89015	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0240
99%	0.0240
95%	0.0150
90%	0.0130
75% Q3	0.0110
50% Median	0.0100
25% Q1	0.0070
10%	0.0050
5%	0.0045
1%	0.0040
0% Min	0.0040

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Orthophosphate (P) (Dissolved) mg/L

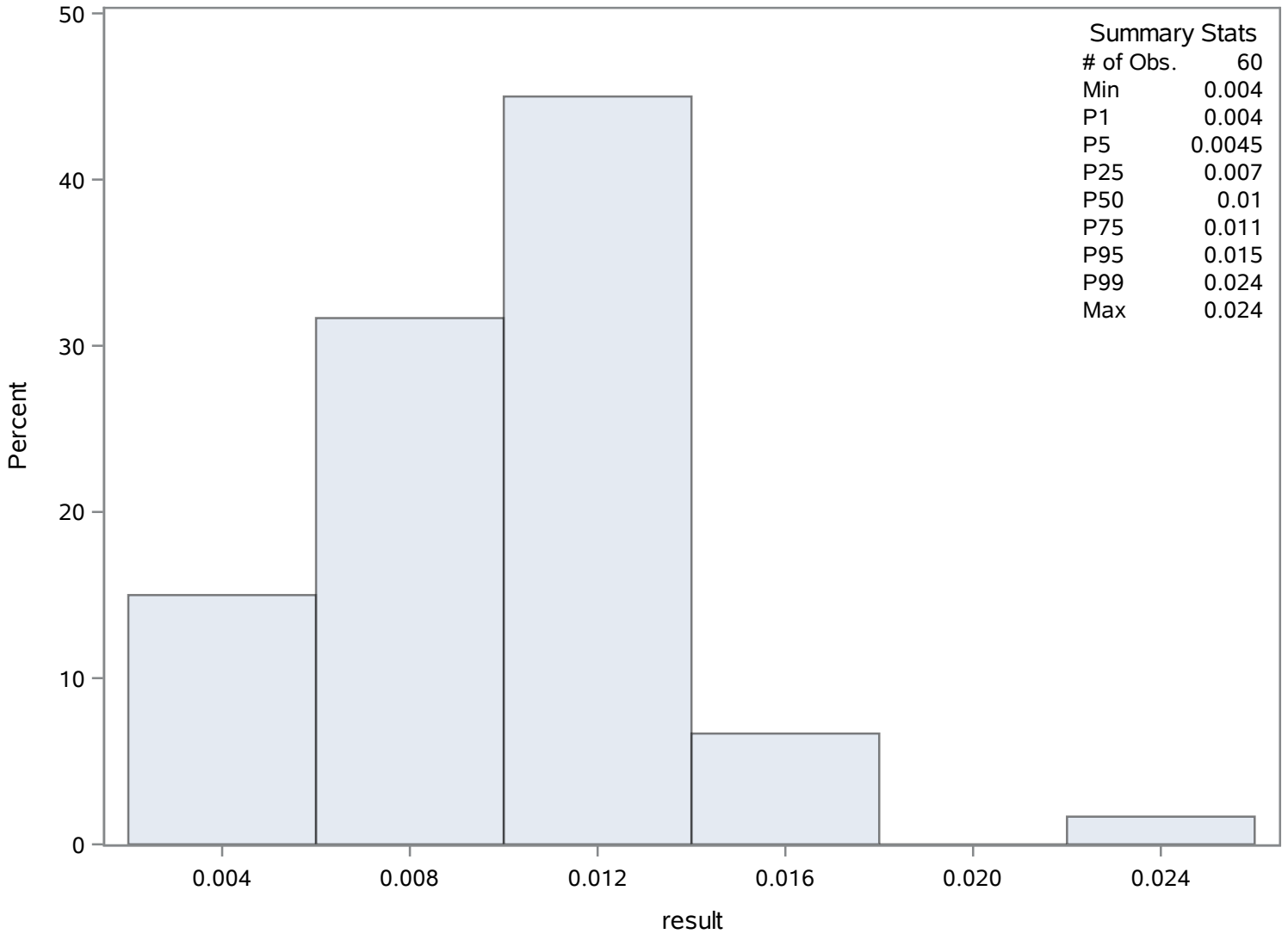
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	695	0.014	657
0.004	688	0.015	668
0.004	687	0.015	694
0.005	691	0.017	682
0.005	684	0.024	643

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	1.78465517	Sum Observations	103.51
Std Deviation	0.83829864	Variance	0.70274462
Skewness	2.08362005	Kurtosis	6.01476234
Uncorrected SS	224.7861	Corrected SS	40.0564431
Coeff Variation	46.9725836	Std Error Mean	0.110074

Basic Statistical Measures			
Location		Variability	
Mean	1.784655	Std Deviation	0.83830
Median	1.510000	Variance	0.70274
Mode	1.000000	Range	4.45000
		Interquartile Range	0.96000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.21323	Pr > t 	<.0001
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.45
99%	5.45
95%	3.10
90%	2.94
75% Q3	2.16
50% Median	1.51
25% Q1	1.20
10%	1.01
5%	1.00
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure
Variable: result

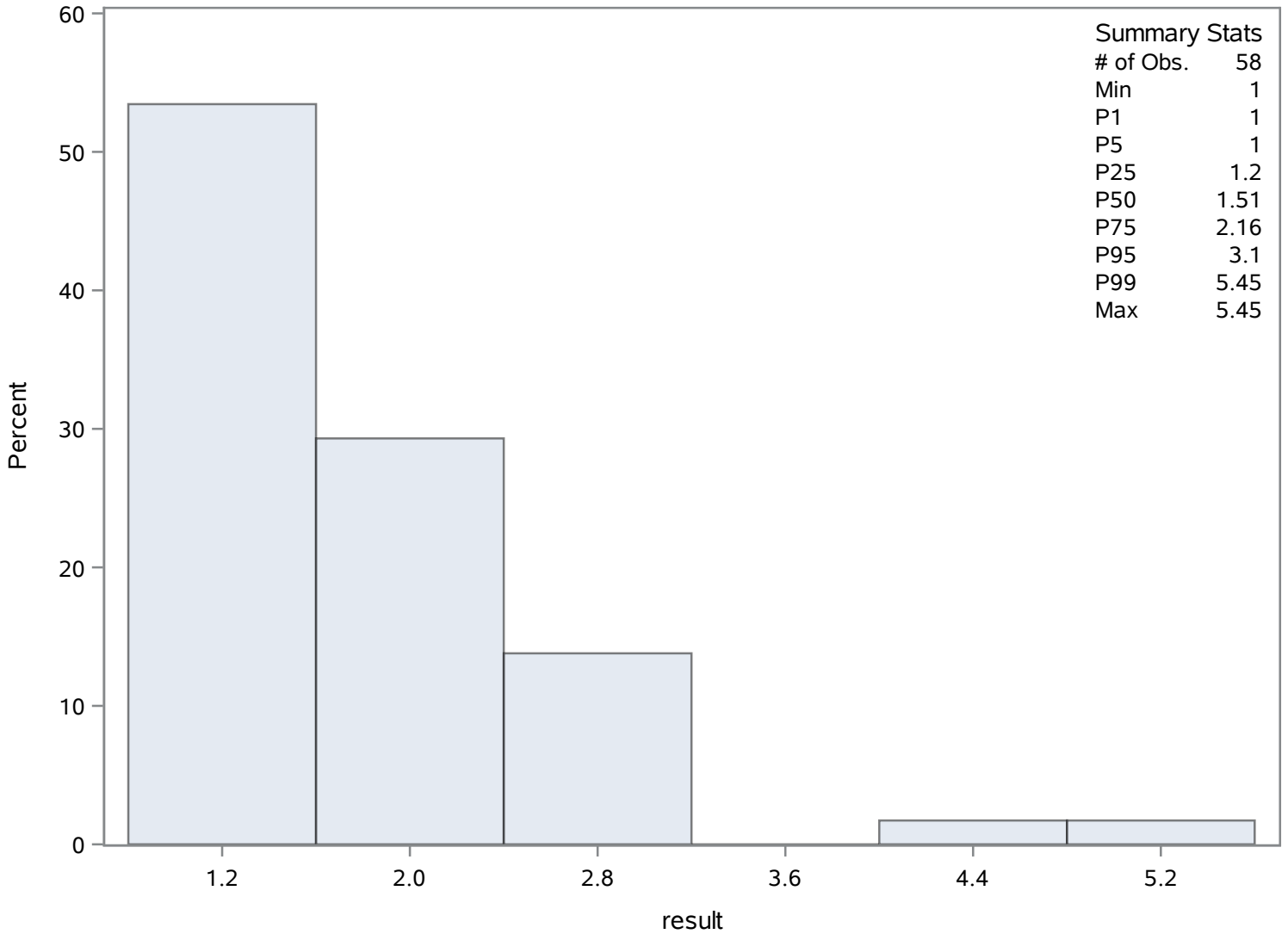
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	740	2.98	706
1	737	3.01	732
1	726	3.10	702
1	715	4.23	696
1	699	5.45	751

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 3
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	0.02454098	Sum Observations	1.497
Std Deviation	0.00692477	Variance	0.00004795
Skewness	0.02168476	Kurtosis	-0.0633776
Uncorrected SS	0.039615	Corrected SS	0.00287715
Coeff Variation	28.2171714	Std Error Mean	0.00088663

Basic Statistical Measures			
Location		Variability	
Mean	0.024541	Std Deviation	0.00692
Median	0.025000	Variance	0.0000480
Mode	0.029000	Range	0.03300
		Interquartile Range	0.00900

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	27.67907	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.043
99%	0.043
95%	0.035
90%	0.034
75% Q3	0.029
50% Median	0.025
25% Q1	0.020
10%	0.016
5%	0.012
1%	0.010
0% Min	0.010

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phosphorus- Total (Total) mg/L

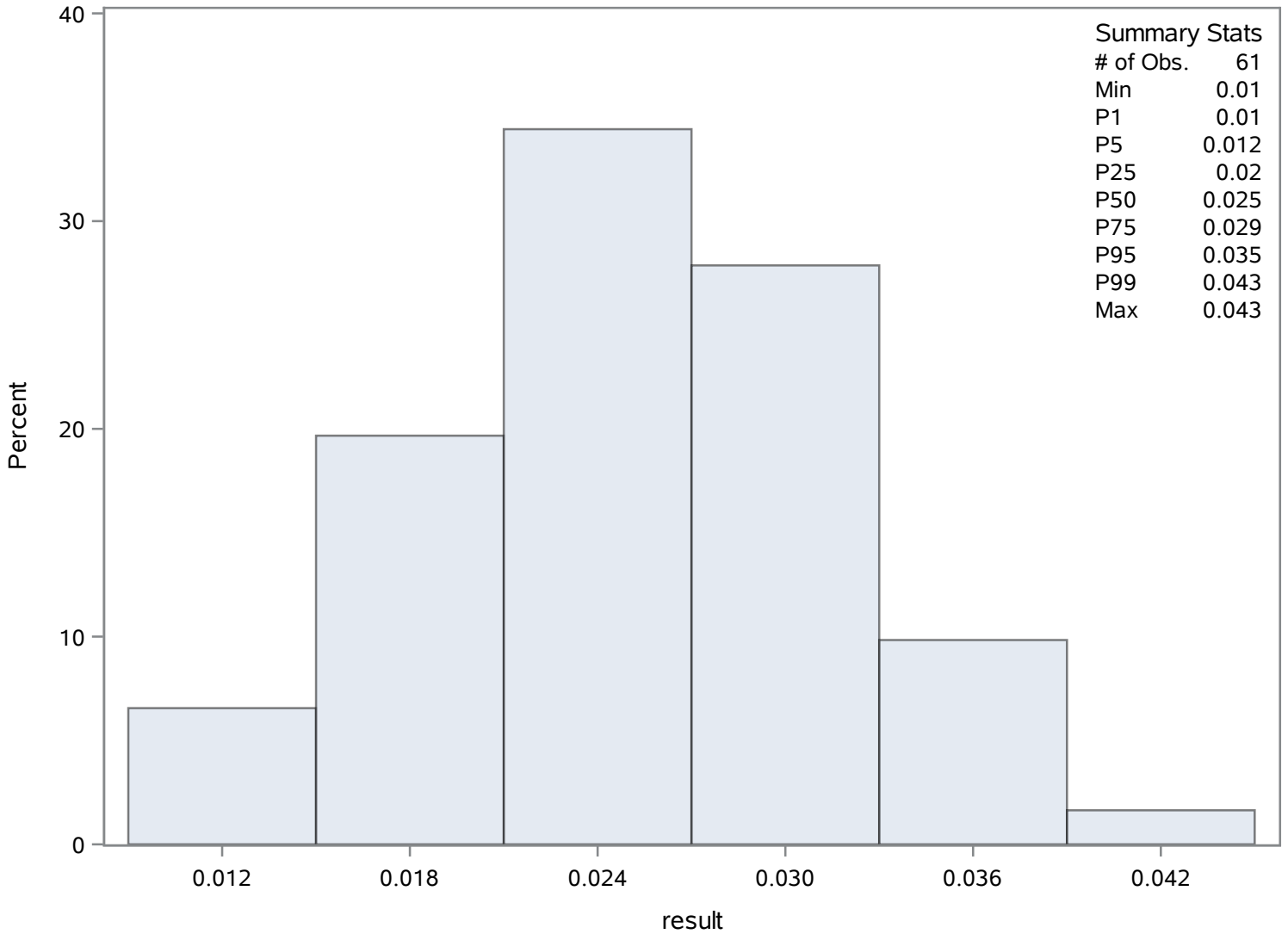
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	757	0.035	783
0.010	756	0.035	787
0.012	755	0.036	786
0.012	754	0.036	812
0.015	763	0.043	762

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	78.7333333	Sum Observations	2125.8
Std Deviation	28.2328096	Variance	797.091538
Skewness	0.63247824	Kurtosis	-0.1712673
Uncorrected SS	188095.7	Corrected SS	20724.38
Coeff Variation	35.858776	Std Error Mean	5.43340674

Basic Statistical Measures			
Location		Variability	
Mean	78.73333	Std Deviation	28.23281
Median	69.90000	Variance	797.09154
Mode	.	Range	109.80000
		Interquartile Range	38.60000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.4906	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	150.0
99%	150.0
95%	123.0
90%	114.0
75% Q3	96.2
50% Median	69.9
25% Q1	57.6
10%	44.2
5%	41.2
1%	40.2
0% Min	40.2

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Potassium (Dissolved) mg/L

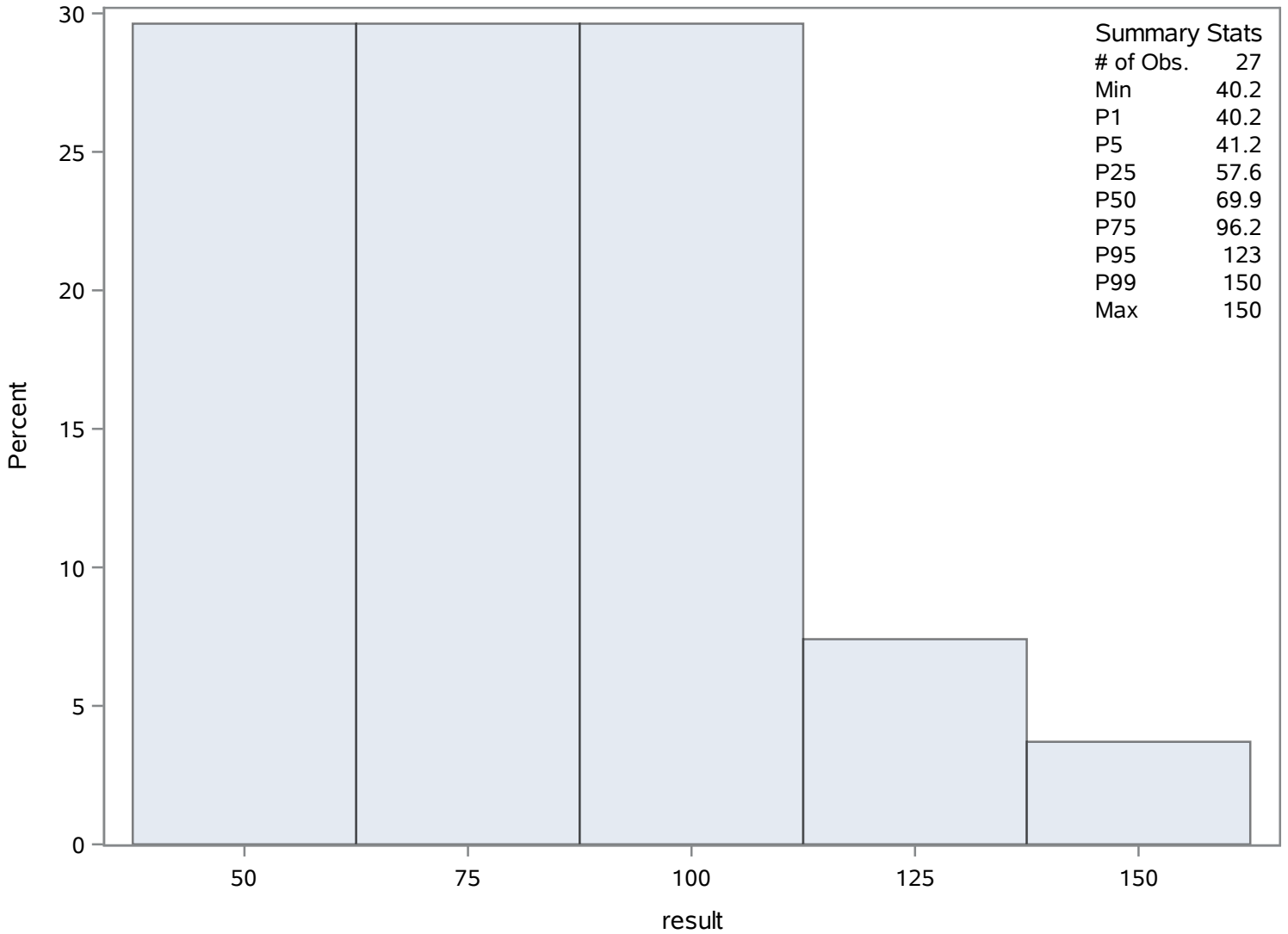
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
40.2	832	109	818
41.2	839	111	834
44.2	836	114	815
47.4	816	123	825
50.3	829	150	821

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	5.16637931	Sum Observations	299.65
Std Deviation	2.0735762	Variance	4.29971824
Skewness	0.93054419	Kurtosis	0.09309637
Uncorrected SS	1793.1895	Corrected SS	245.08394
Coeff Variation	40.1359651	Std Error Mean	0.27227389

Basic Statistical Measures			
Location		Variability	
Mean	5.166379	Std Deviation	2.07358
Median	4.485000	Variance	4.29972
Mode	3.980000	Range	8.48000
		Interquartile Range	2.64000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.97493	Pr > t 	<.0001
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.600
99%	10.600
95%	9.450
90%	8.120
75% Q3	6.350
50% Median	4.485
25% Q1	3.710
10%	3.150
5%	2.550

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

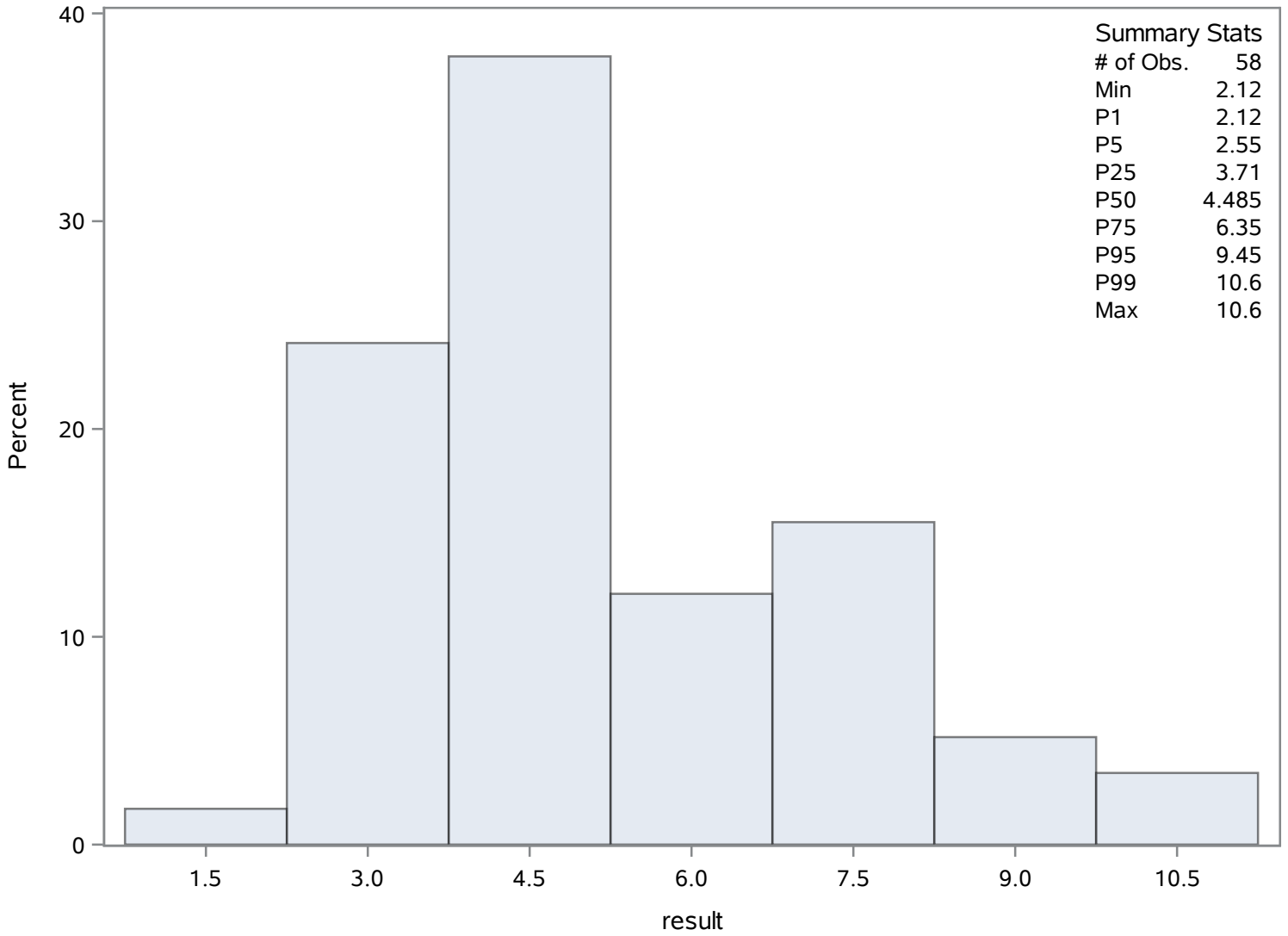
Quantiles (Definition 5)	
Level	Quantile
1%	2.120
0% Min	2.120

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.12	886	9.14	878
2.42	847	9.43	857
2.55	851	9.45	858
2.66	849	10.10	887
3.06	844	10.60	897

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	2.59540984	Sum Observations	158.32
Std Deviation	0.90794745	Variance	0.82436858
Skewness	1.0845279	Kurtosis	1.12704271
Uncorrected SS	460.3674	Corrected SS	49.4621148
Coeff Variation	34.9828163	Std Error Mean	0.11625076

Basic Statistical Measures			
Location		Variability	
Mean	2.595410	Std Deviation	0.90795
Median	2.330000	Variance	0.82437
Mode	1.620000	Range	4.29000
		Interquartile Range	1.02000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	22.32596	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.43
99%	5.43
95%	4.43
90%	3.78
75% Q3	2.95
50% Median	2.33
25% Q1	1.93
10%	1.68
5%	1.42

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure
Variable: result

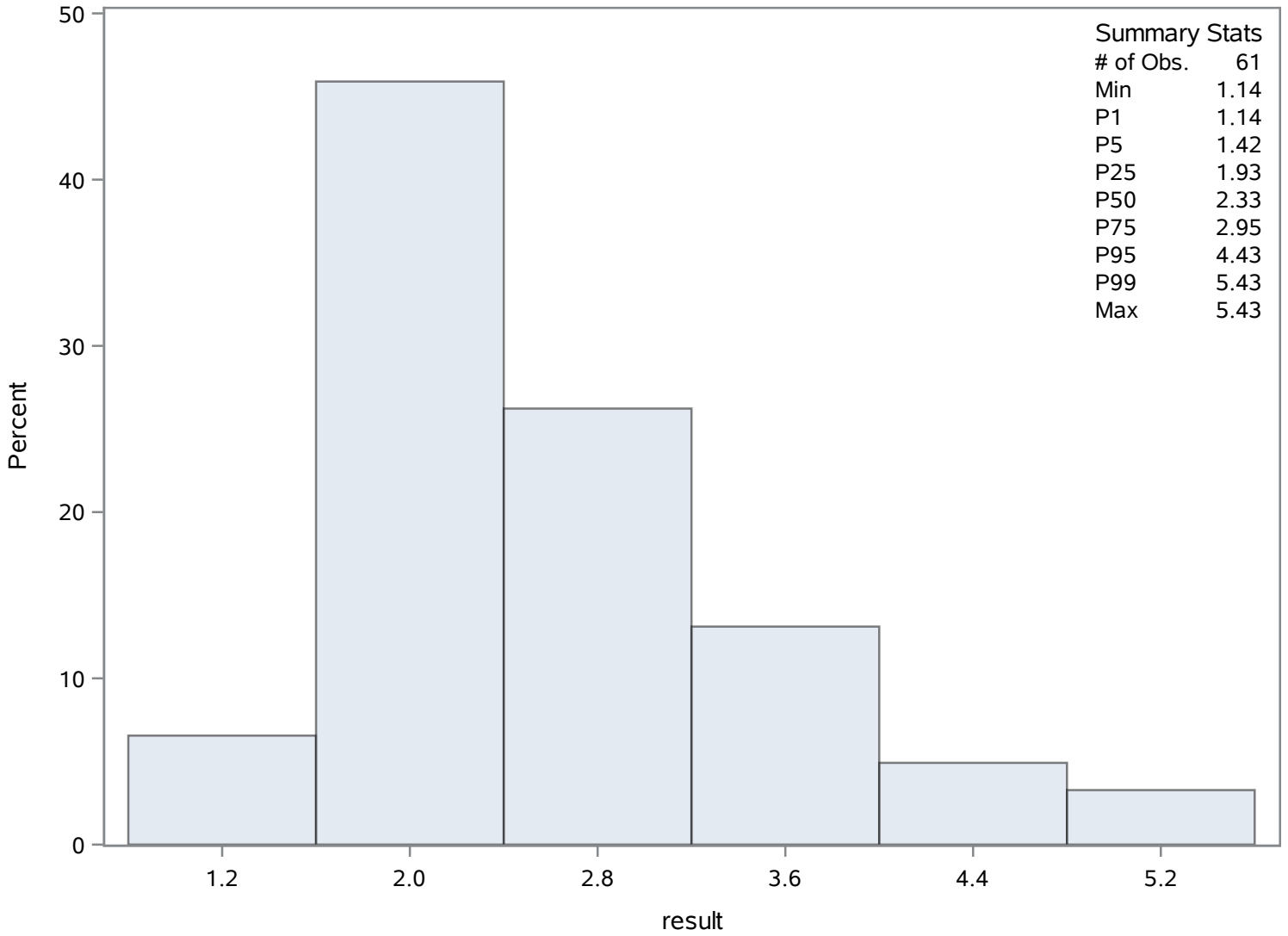
Quantiles (Definition 5)	
Level	Quantile
1%	1.14
0% Min	1.14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.14	947	4.20	919
1.29	912	4.43	918
1.40	908	4.45	939
1.42	910	5.08	948
1.62	904	5.43	958

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	7.49666667	Sum Observations	292.37
Std Deviation	2.79831089	Variance	7.83054386
Skewness	0.72458369	Kurtosis	-0.5494018
Uncorrected SS	2489.3611	Corrected SS	297.560667
Coeff Variation	37.3274019	Std Error Mean	0.44808836

Basic Statistical Measures			
Location		Variability	
Mean	7.496667	Std Deviation	2.79831
Median	7.030000	Variance	7.83054
Mode	7.260000	Range	9.61000
		Interquartile Range	3.82000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.73033	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.20
99%	13.20
95%	13.13
90%	11.97
75% Q3	9.06
50% Median	7.03
25% Q1	5.24
10%	4.33
5%	3.74
1%	3.59
0% Min	3.59

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Salinity (Total) ppt

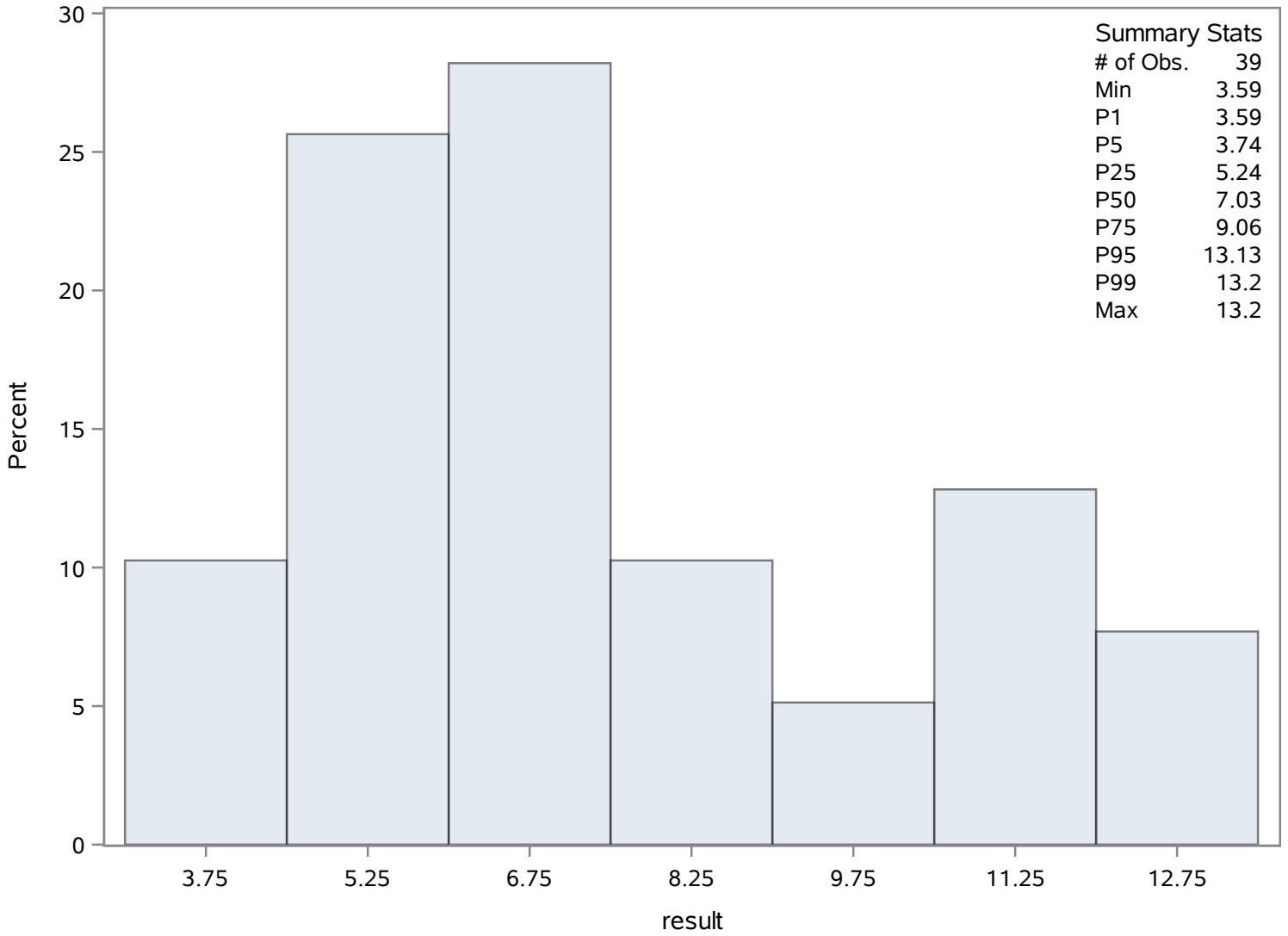
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.59	990	11.72	973
3.74	997	11.97	992
4.25	994	13.05	966
4.33	964	13.13	965
4.62	987	13.20	979

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Coastal Rivers

Chassahowitzka River CV 3

Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	47	Sum Weights	47
Mean	1.81664681	Sum Observations	85.3824
Std Deviation	0.51038918	Variance	0.26049712
Skewness	0.05885742	Kurtosis	-0.2636517
Uncorrected SS	167.092532	Corrected SS	11.9828673
Coeff Variation	28.0951244	Std Error Mean	0.07444791

Basic Statistical Measures			
Location		Variability	
Mean	1.816647	Std Deviation	0.51039
Median	1.680000	Variance	0.26050
Mode	1.680000	Range	2.17300
		Interquartile Range	0.91840

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.40158	Pr > t 	<.0001
Sign	M	23.5	Pr >= M 	<.0001
Signed Rank	S	564	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.7430
99%	2.7430
95%	2.7400
90%	2.5910
75% Q3	2.2900
50% Median	1.6800
25% Q1	1.3716
10%	1.3700
5%	1.2192
1%	0.5700
0% Min	0.5700

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Secchi-horizontal (Total) Meters

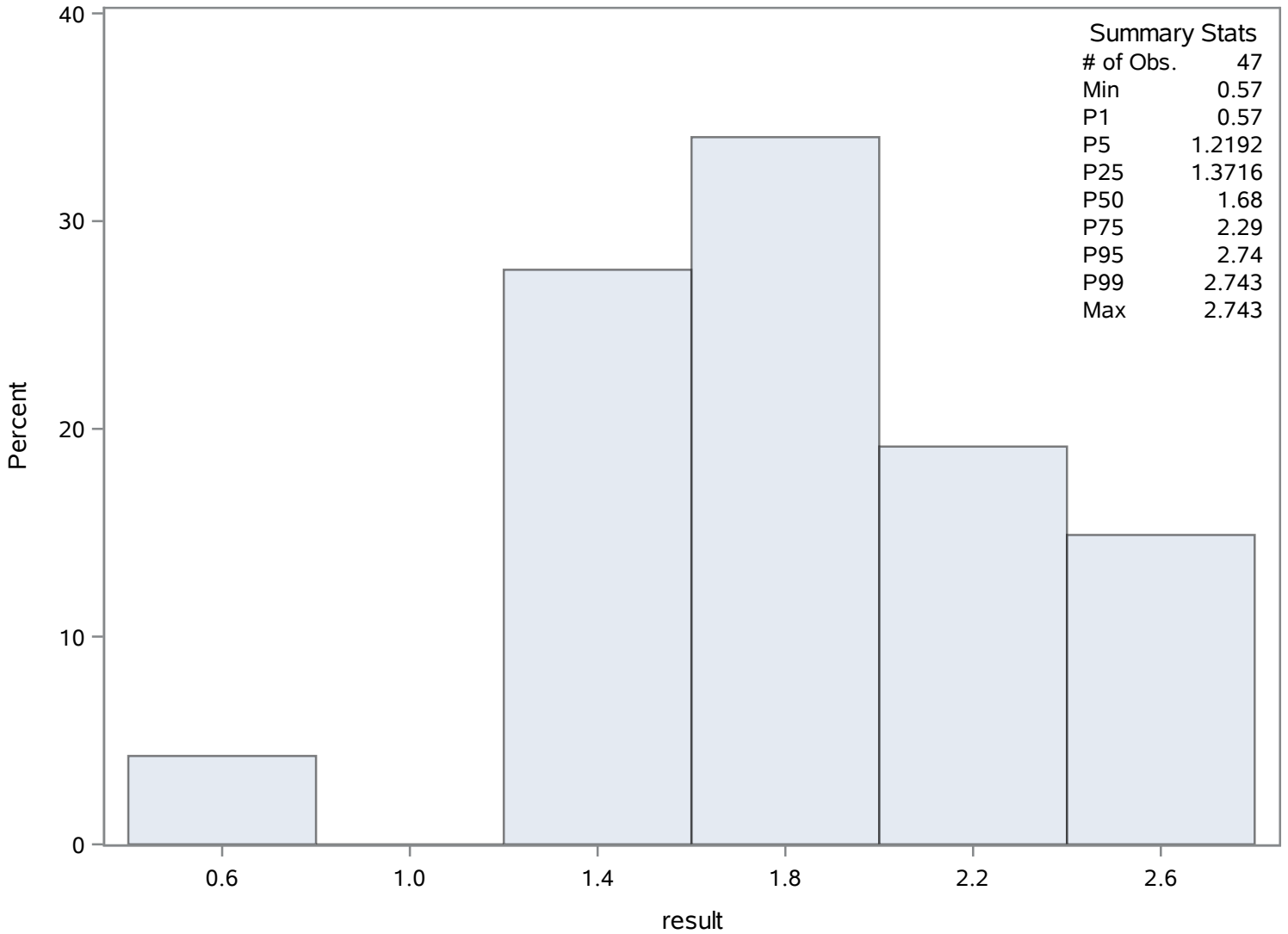
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5700	1034	2.591	1027
0.7600	1044	2.600	1033
1.2192	1026	2.740	1045
1.2200	1043	2.743	1008
1.3700	1036	2.743	1009

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Secchi-horizontal (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	2084.44444	Sum Observations	56280
Std Deviation	757.126823	Variance	573241.026
Skewness	0.83352186	Kurtosis	0.0756717
Uncorrected SS	132216800	Corrected SS	14904266.7
Coeff Variation	36.3227154	Std Error Mean	145.709125

Basic Statistical Measures			
Location		Variability	
Mean	2084.444	Std Deviation	757.12682
Median	1830.000	Variance	573241
Mode	1830.000	Range	2900
		Interquartile Range	950.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.30552	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3960
99%	3960
95%	3370
90%	3310
75% Q3	2540
50% Median	1830
25% Q1	1590
10%	1150
5%	1080
1%	1060
0% Min	1060

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

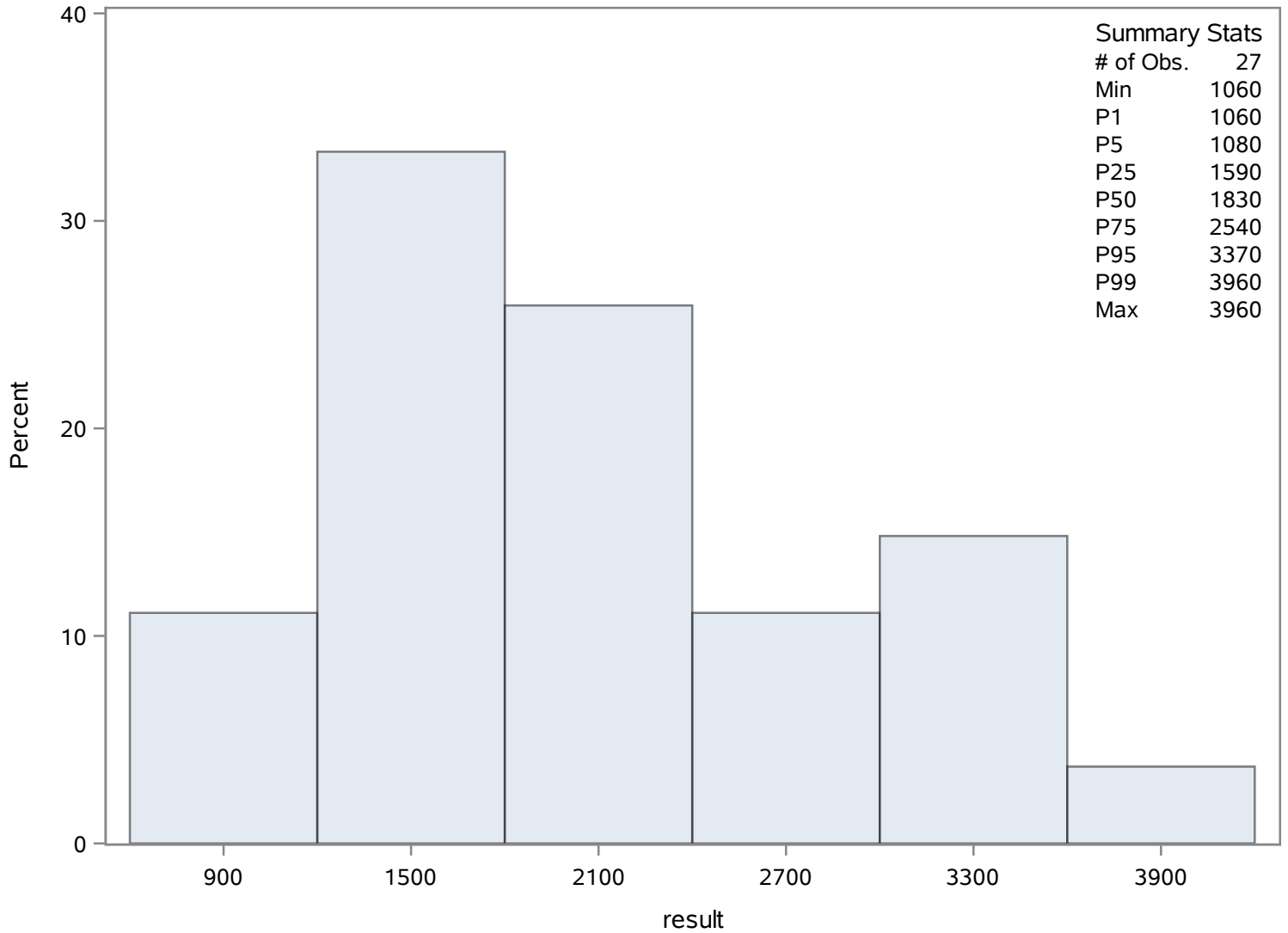
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1060	1071	3020	1050
1080	1064	3180	1047
1150	1068	3310	1066
1330	1048	3370	1057
1390	1061	3960	1053

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 3
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	66	Sum Weights	66
Mean	12810	Sum Observations	845460
Std Deviation	4687.44154	Variance	21972108.2
Skewness	0.50179238	Kurtosis	-0.6531604
Uncorrected SS	1.22585E10	Corrected SS	1428187034
Coeff Variation	36.5920495	Std Error Mean	576.984168

Basic Statistical Measures			
Location		Variability	
Mean	12810.00	Std Deviation	4687
Median	12383.00	Variance	21972108
Mode	5477.00	Range	16463
		Interquartile Range	6031

Note: The mode displayed is the smallest of 12 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	22.20165	Pr > t 	<.0001
Sign	M	33	Pr >= M 	<.0001
Signed Rank	S	1105.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21940
99%	21940
95%	21275
90%	20871
75% Q3	15310
50% Median	12383
25% Q1	9279
10%	7342
5%	5823

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

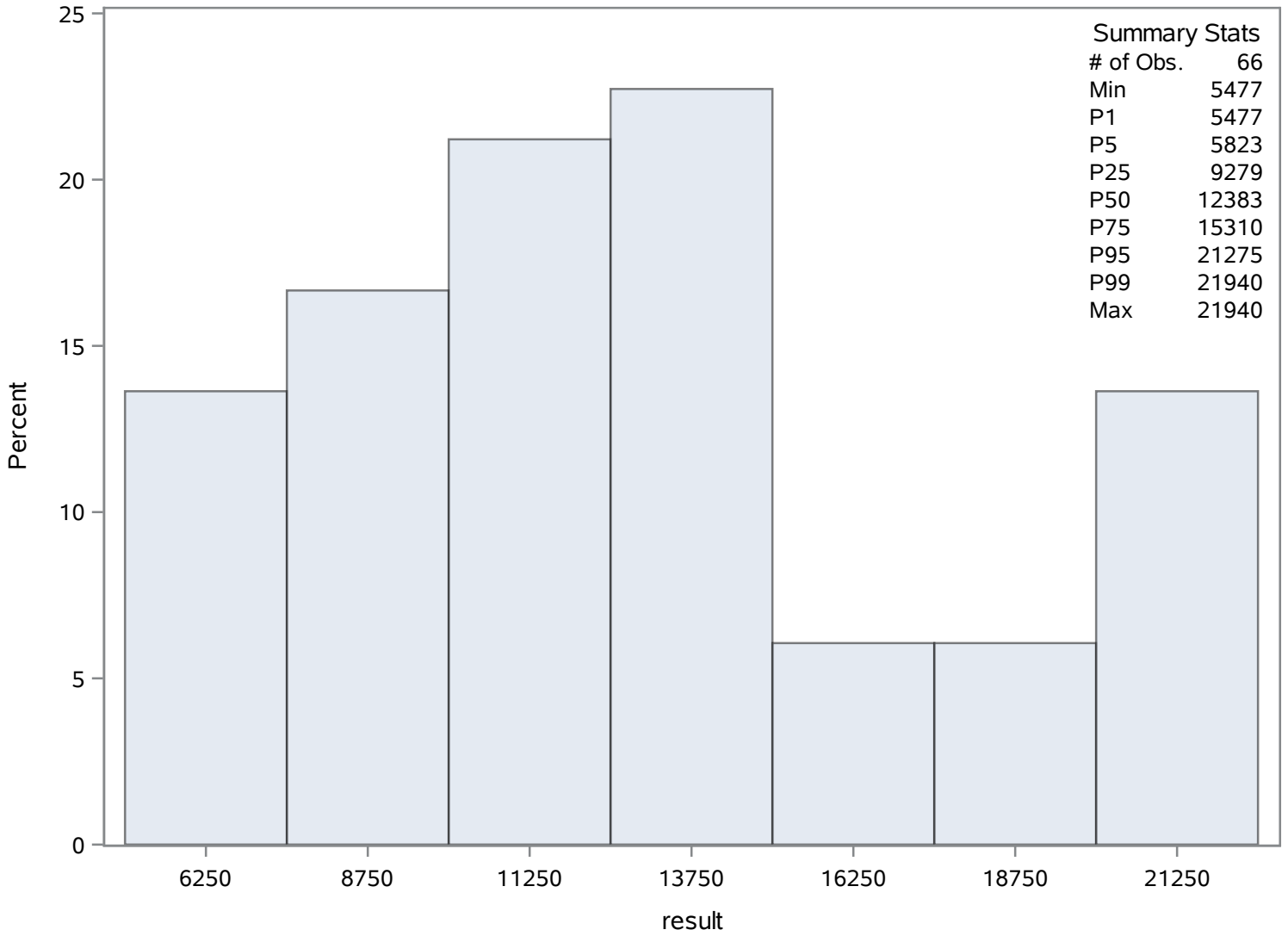
Quantiles (Definition 5)	
Level	Quantile
1%	5477
0% Min	5477

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5477	1075	21275	1092
5477	1074	21275	1093
5823	1081	21791	1105
5823	1080	21809	1106
6525	1130	21940	1119

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	66	Sum Weights	66
Mean	24.2678788	Sum Observations	1601.68
Std Deviation	4.42981004	Variance	19.623217
Skewness	-0.4467948	Kurtosis	0.03277069
Uncorrected SS	40144.8852	Corrected SS	1275.5091
Coeff Variation	18.2537999	Std Error Mean	0.54527192

Basic Statistical Measures			
Location		Variability	
Mean	24.26788	Std Deviation	4.42981
Median	24.62000	Variance	19.62322
Mode	26.75000	Range	19.94000
		Interquartile Range	5.47000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	44.50601	Pr > t 	<.0001
Sign	M	33	Pr >= M 	<.0001
Signed Rank	S	1105.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.21
99%	32.21
95%	31.18
90%	30.22
75% Q3	26.91
50% Median	24.62
25% Q1	21.44
10%	18.50
5%	17.20
1%	12.27
0% Min	12.27

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Temperature (Total) Deg. C

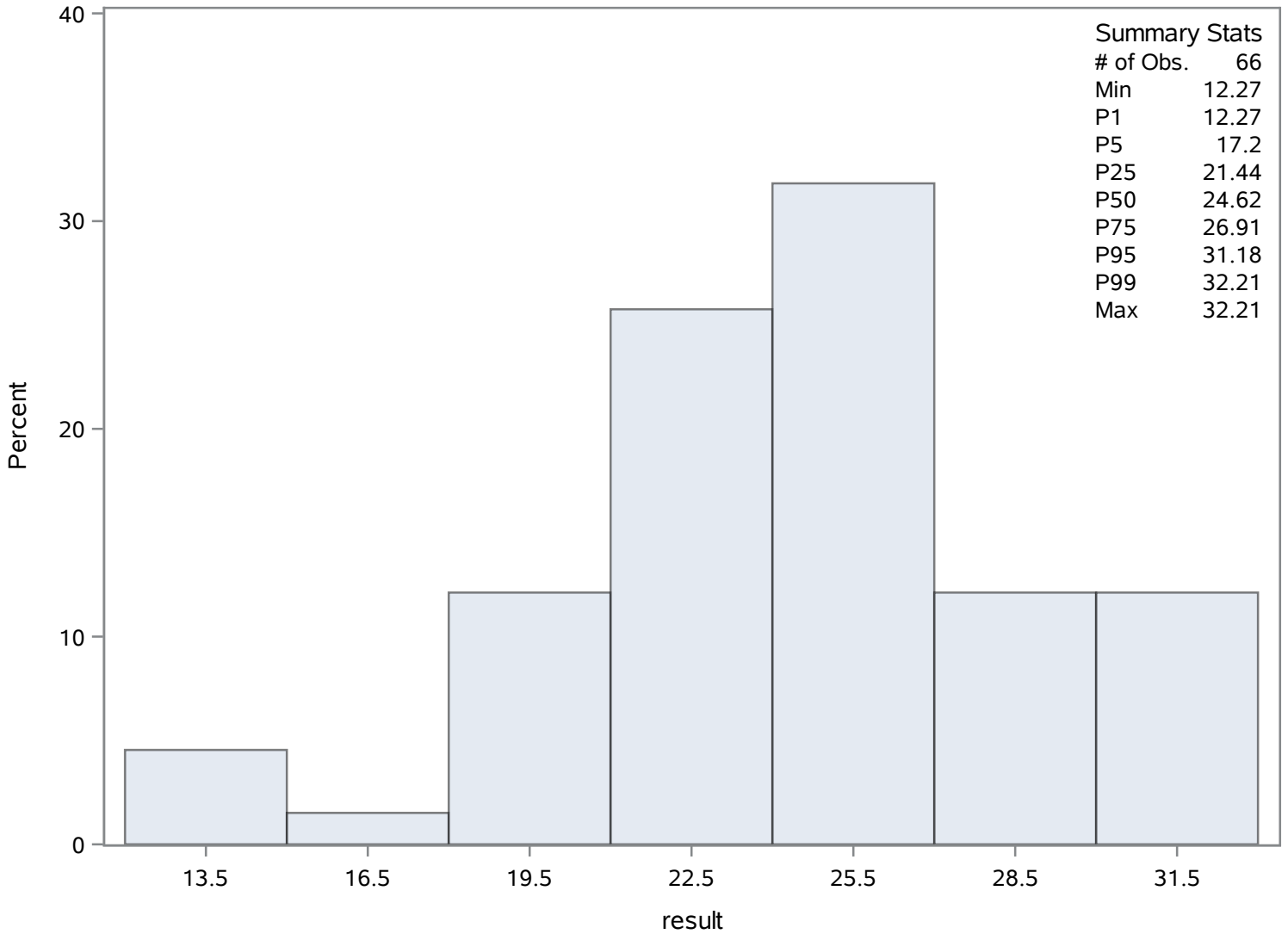
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.27	1192	30.76	1198
13.78	1180	31.18	1182
14.40	1175	31.23	1158
17.20	1200	31.23	1159
18.14	1151	32.21	1178

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Coastal Rivers

Chassahowitzka River CV 3

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	3.44637931	Sum Observations	199.89
Std Deviation	1.59353595	Variance	2.53935684
Skewness	3.27169375	Kurtosis	16.1196249
Uncorrected SS	833.6401	Corrected SS	144.74334
Coeff Variation	46.2379735	Std Error Mean	0.20924152

Basic Statistical Measures			
Location		Variability	
Mean	3.446379	Std Deviation	1.59354
Median	3.145000	Variance	2.53936
Mode	2.510000	Range	10.63000
		Interquartile Range	1.42000

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.47082	Pr > t 	<.0001
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.300
99%	12.300
95%	5.820
90%	5.100
75% Q3	3.930
50% Median	3.145
25% Q1	2.510
10%	2.050
5%	1.840

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

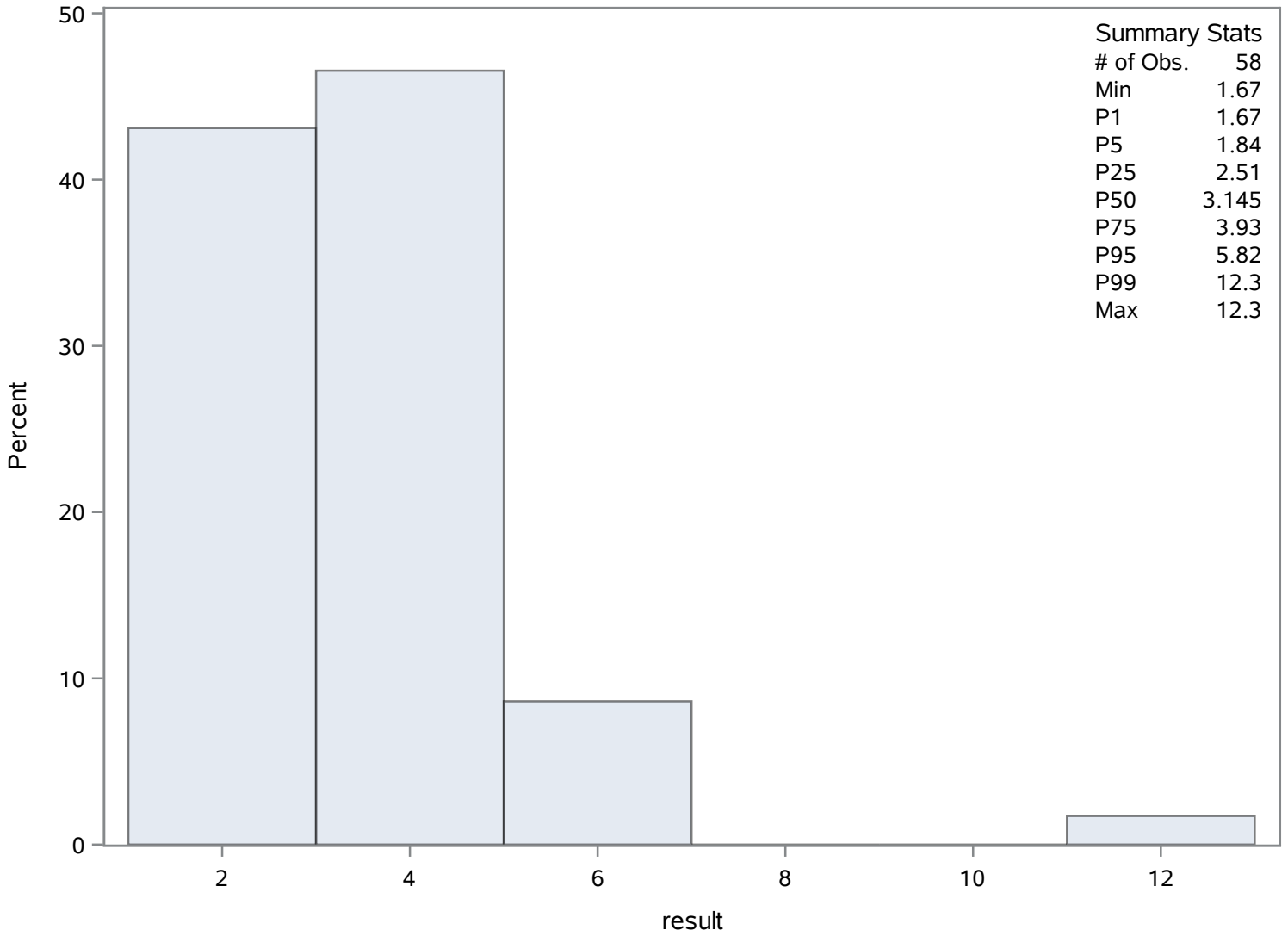
Quantiles (Definition 5)	
Level	Quantile
1%	1.670
0% Min	1.670

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.67	1211	5.22	1261
1.83	1249	5.82	1223
1.84	1250	5.82	1228
1.94	1257	6.52	1222
1.99	1213	12.30	1206

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Coastal Rivers

Chassahowitzka River CV 3

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	66	Sum Weights	66
Mean	7.69318182	Sum Observations	507.75
Std Deviation	0.21309557	Variance	0.04540972
Skewness	-0.4079124	Kurtosis	0.62799929
Uncorrected SS	3909.1647	Corrected SS	2.95163182
Coeff Variation	2.76992759	Std Error Mean	0.02623025

Basic Statistical Measures			
Location		Variability	
Mean	7.693182	Std Deviation	0.21310
Median	7.710000	Variance	0.04541
Mode	7.730000	Range	0.98000
		Interquartile Range	0.27000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	293.2943	Pr > t 	<.0001
Sign	M	33	Pr >= M 	<.0001
Signed Rank	S	1105.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.06
99%	8.06
95%	8.02
90%	8.02
75% Q3	7.83
50% Median	7.71
25% Q1	7.56
10%	7.46
5%	7.45

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

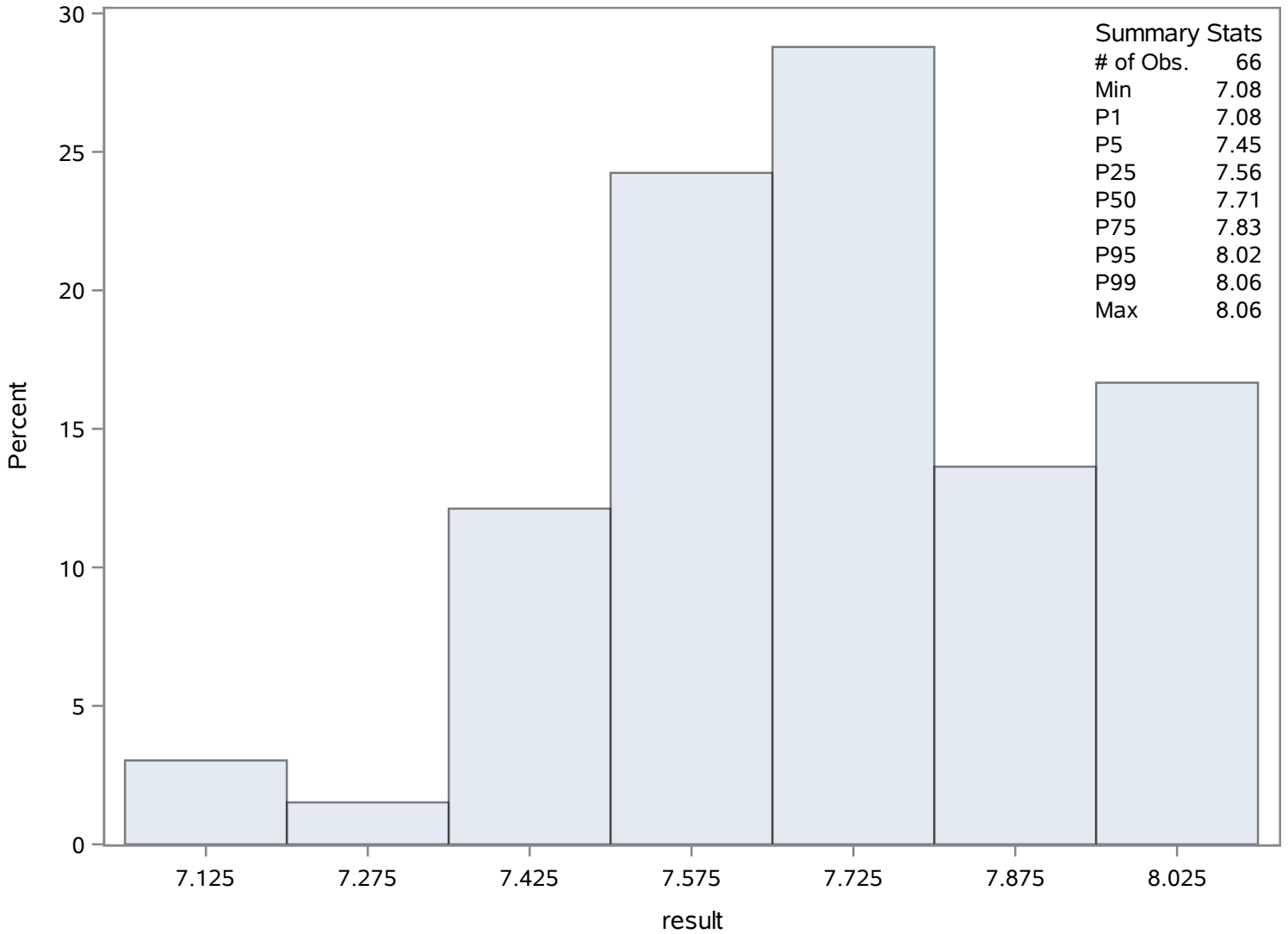
Quantiles (Definition 5)	
Level	Quantile
1%	7.08
0% Min	7.08

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.08	1269	8.02	1299
7.08	1268	8.02	1304
7.30	1301	8.05	1316
7.45	1325	8.06	1264
7.45	1271	8.06	1265

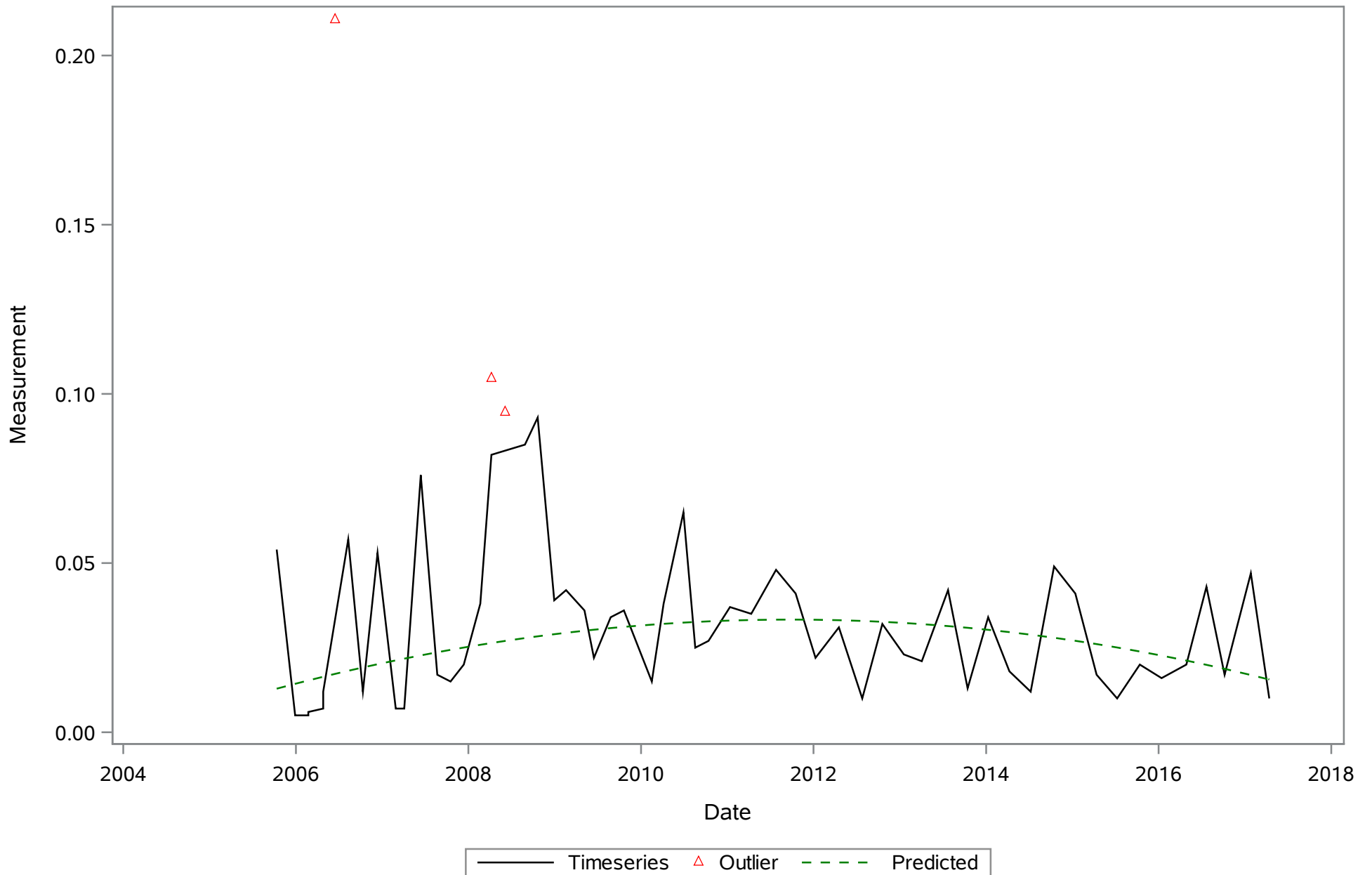
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
pH (Total) SU

The UNIVARIATE Procedure

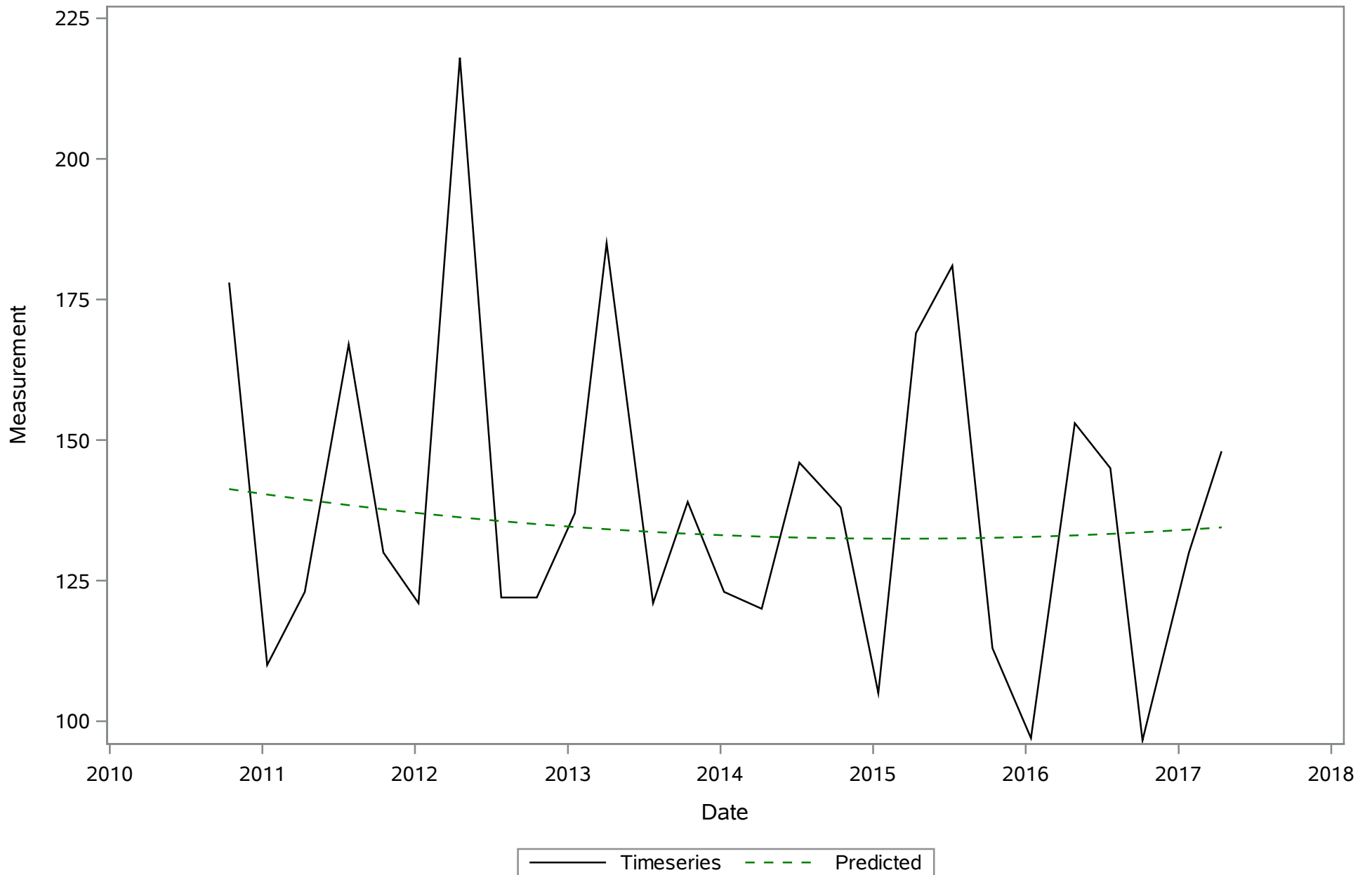
Distribution of result



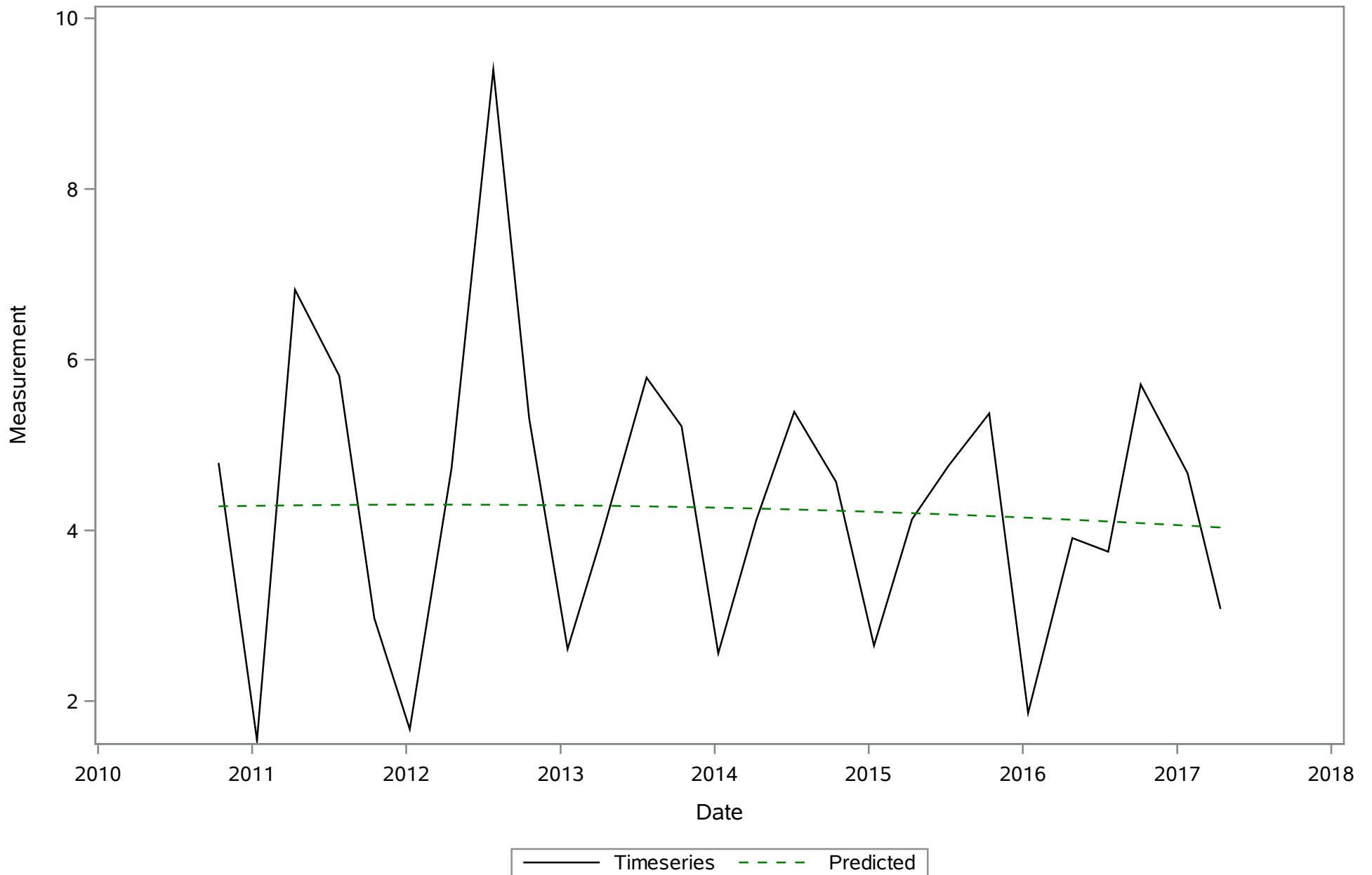
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Ammonia (N) (Total) mg/L



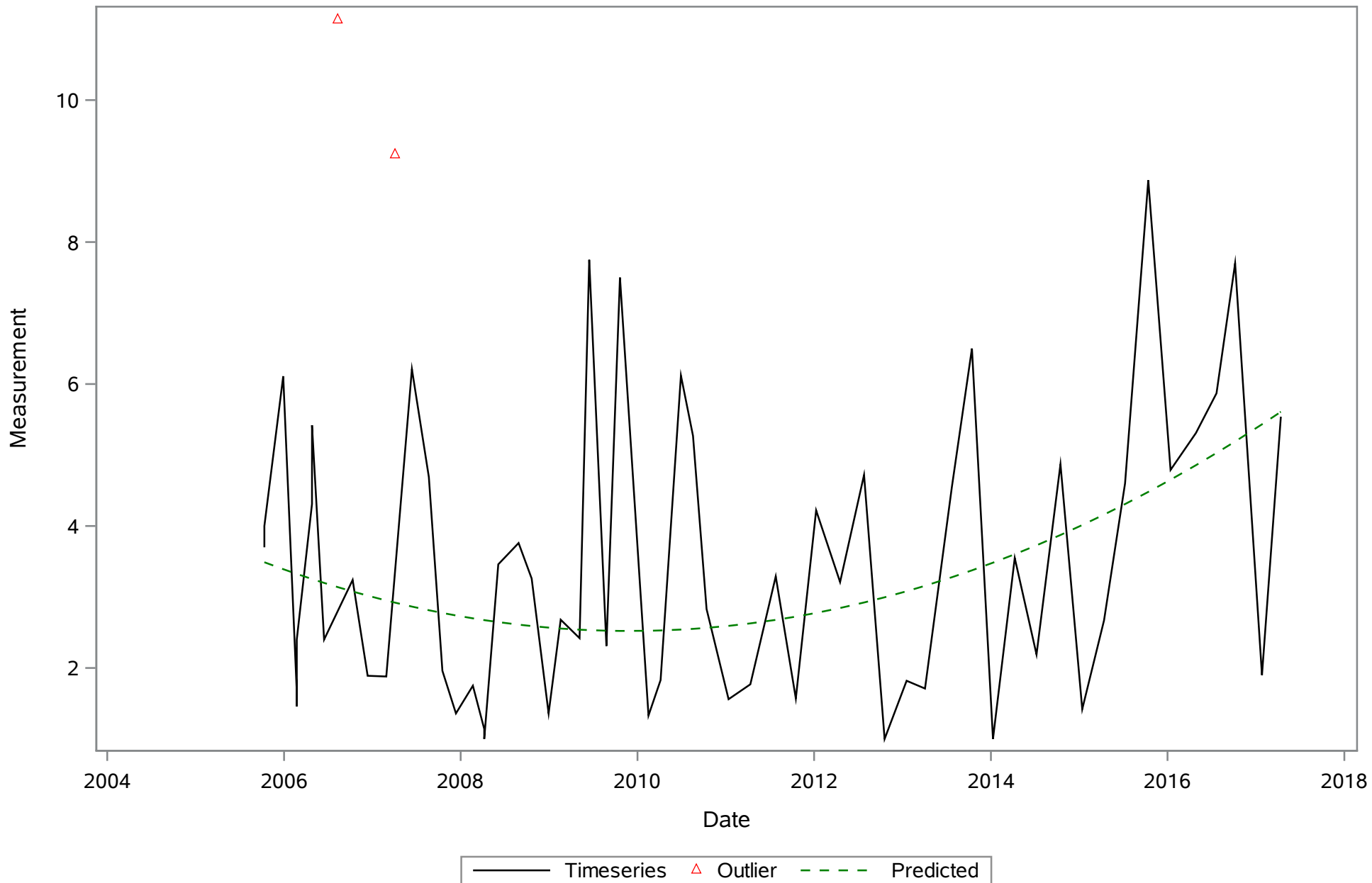
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Calcium (Dissolved) mg/L



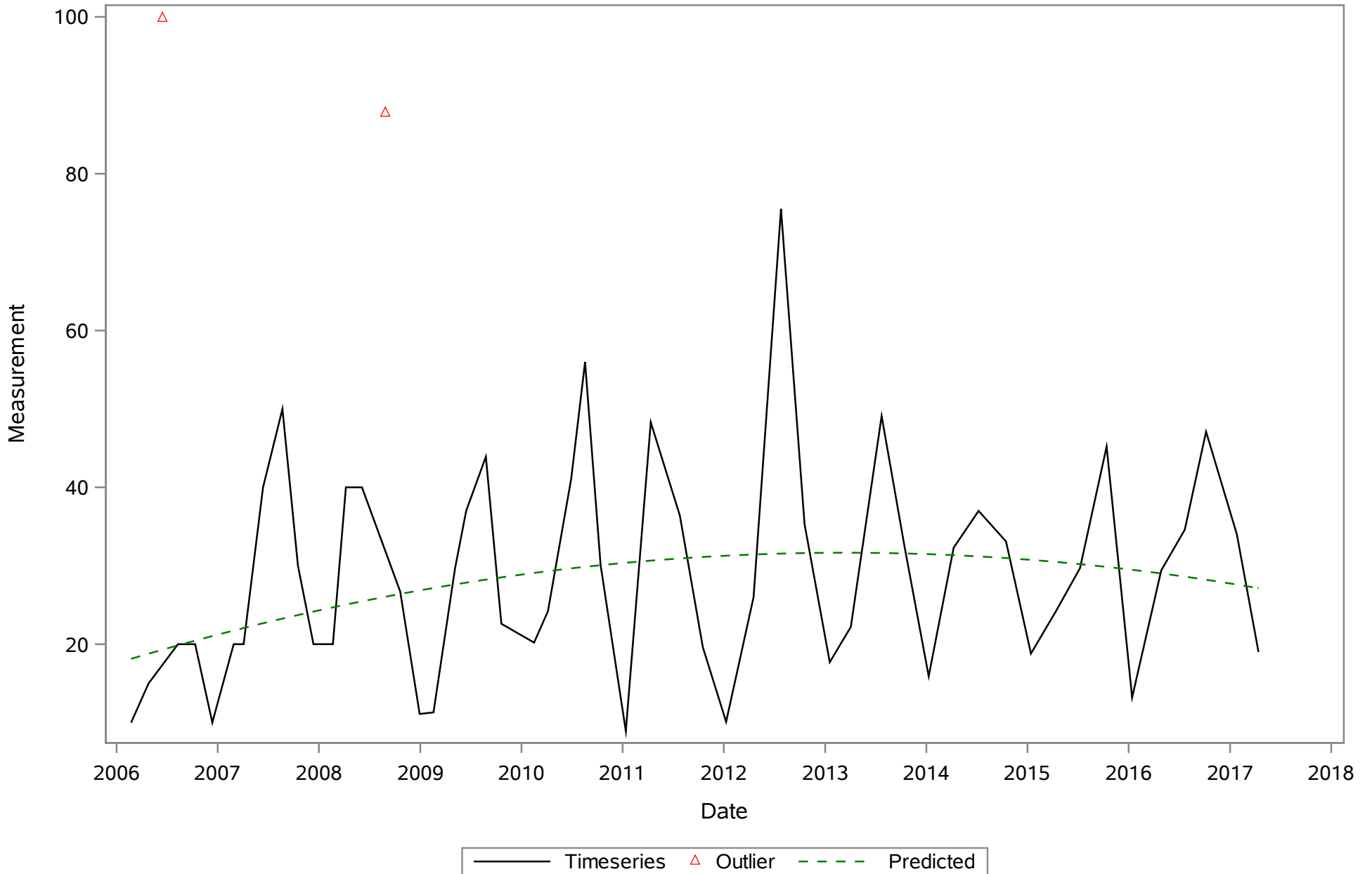
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Carbon- Total Organic (Total) mg/L



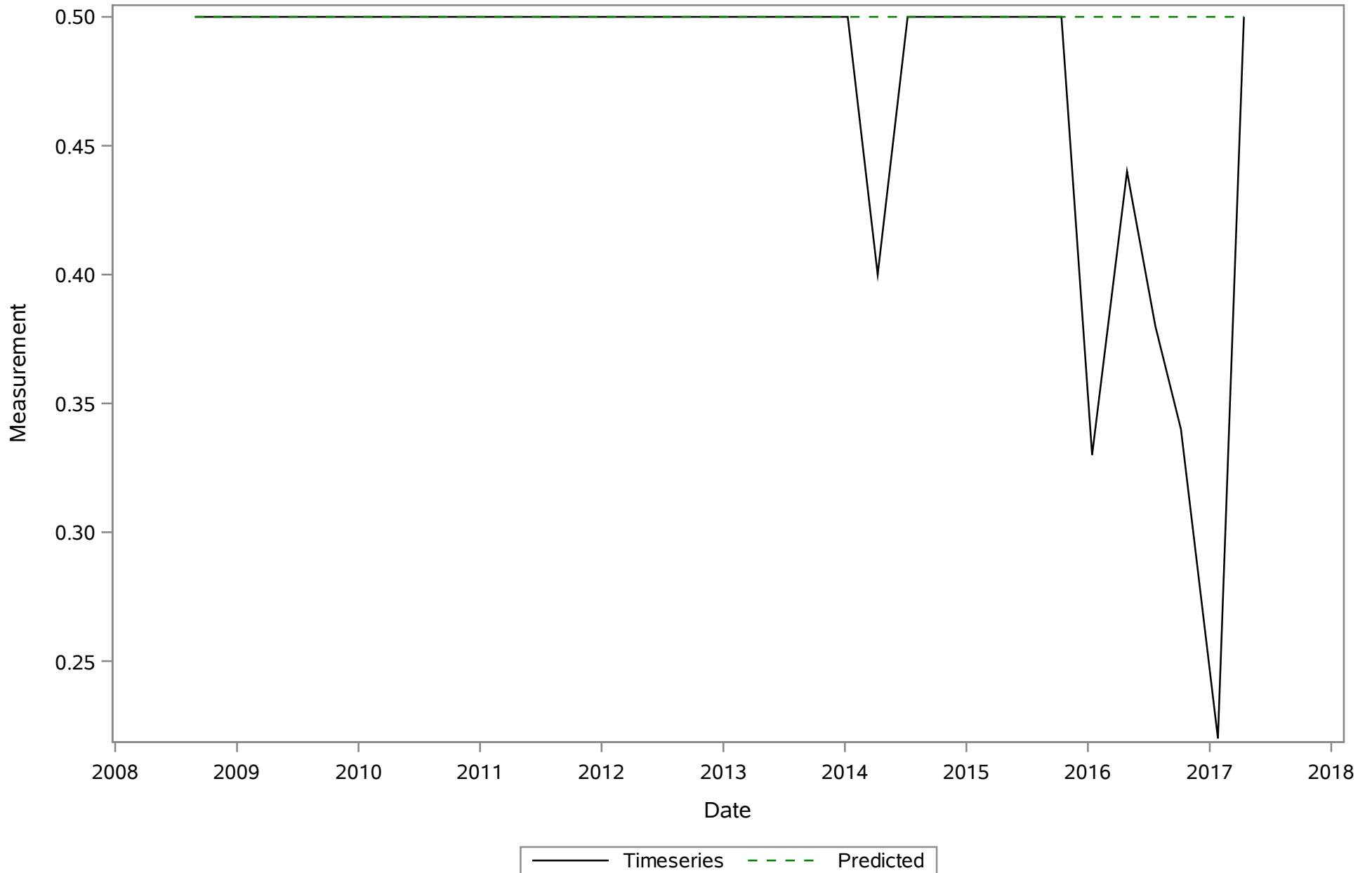
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Chlorophyll a (Total) ug/L



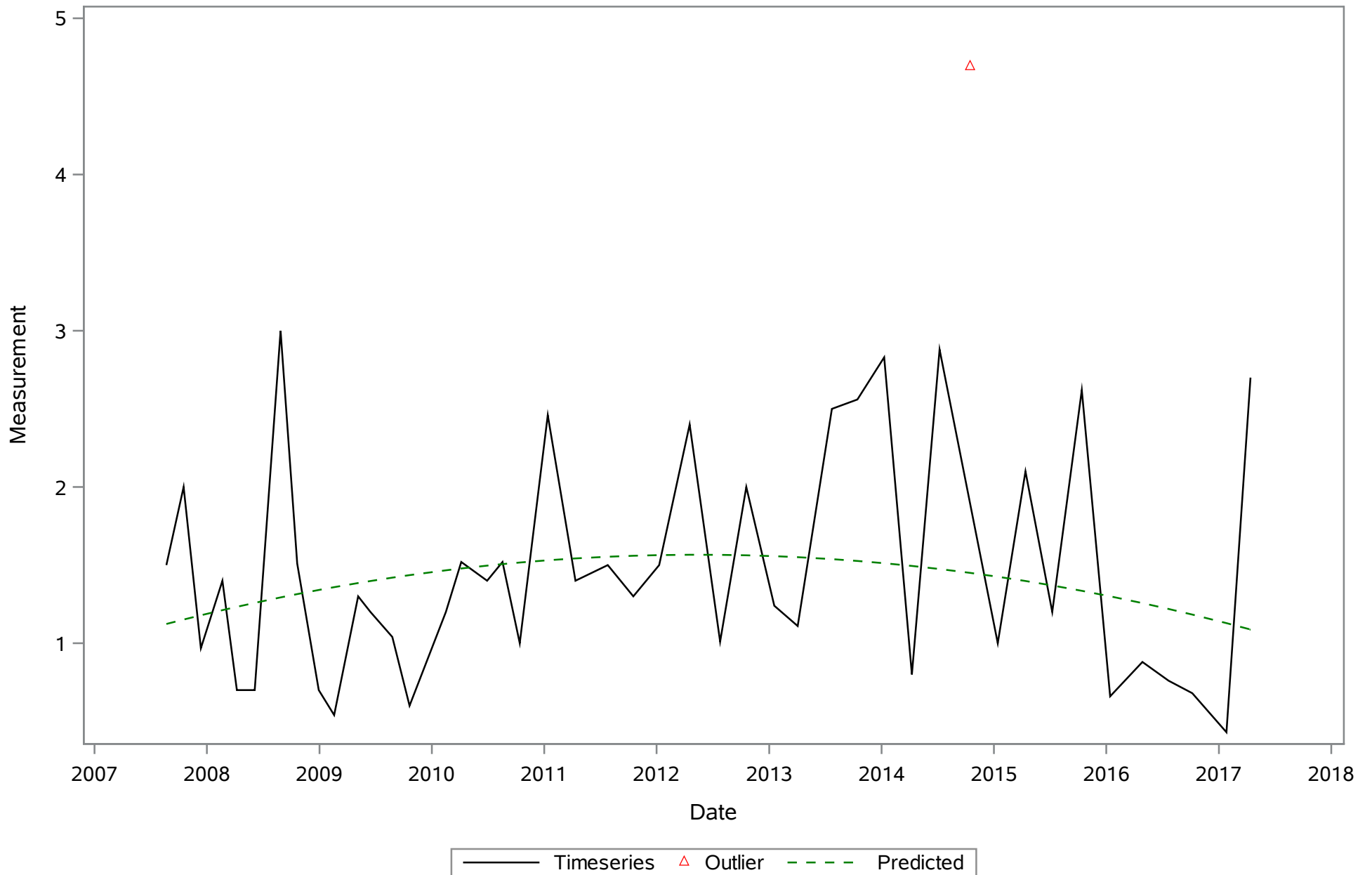
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Color (Dissolved) PCU



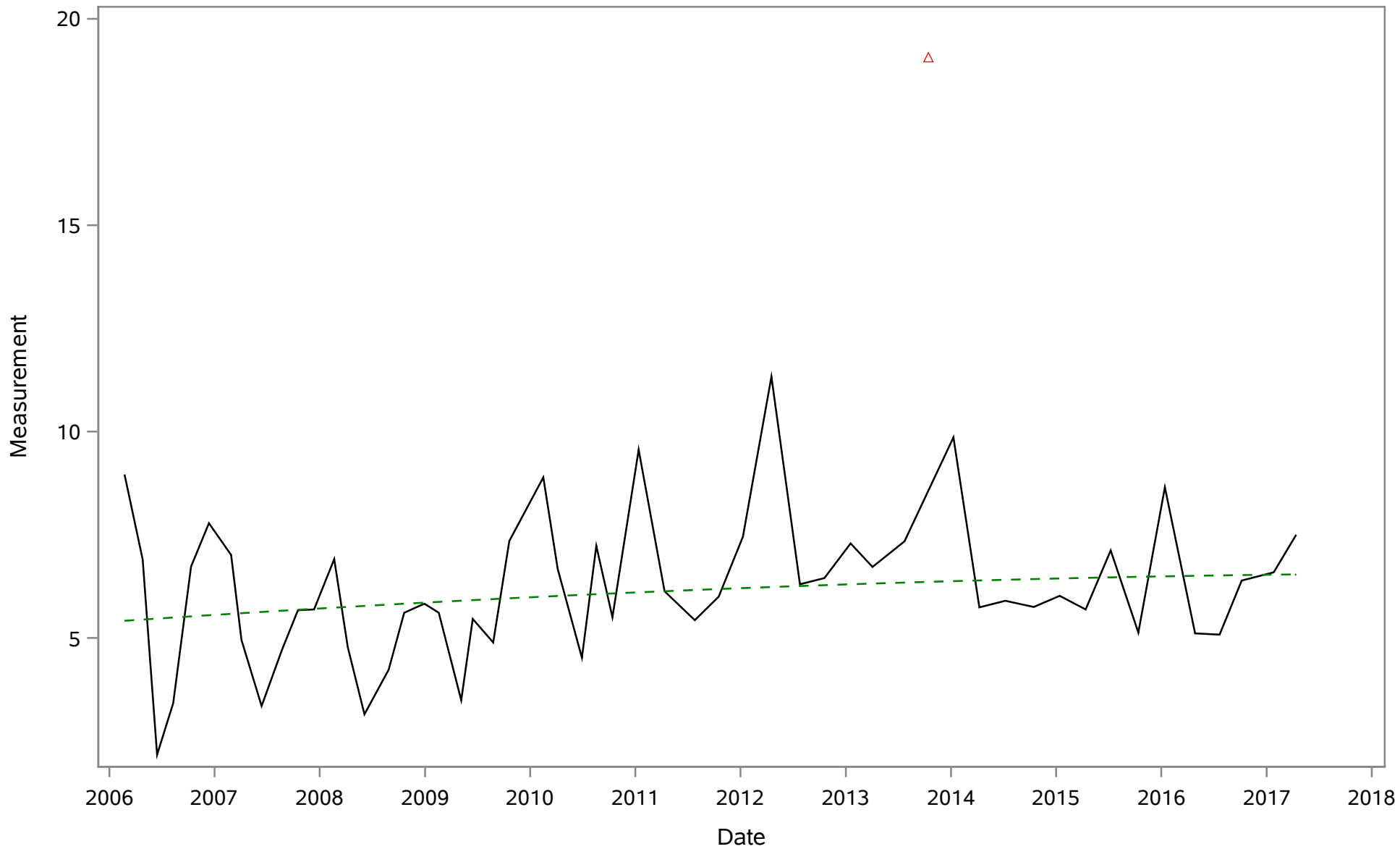
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth (Total) Meters



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth, bottom (Total) Meters

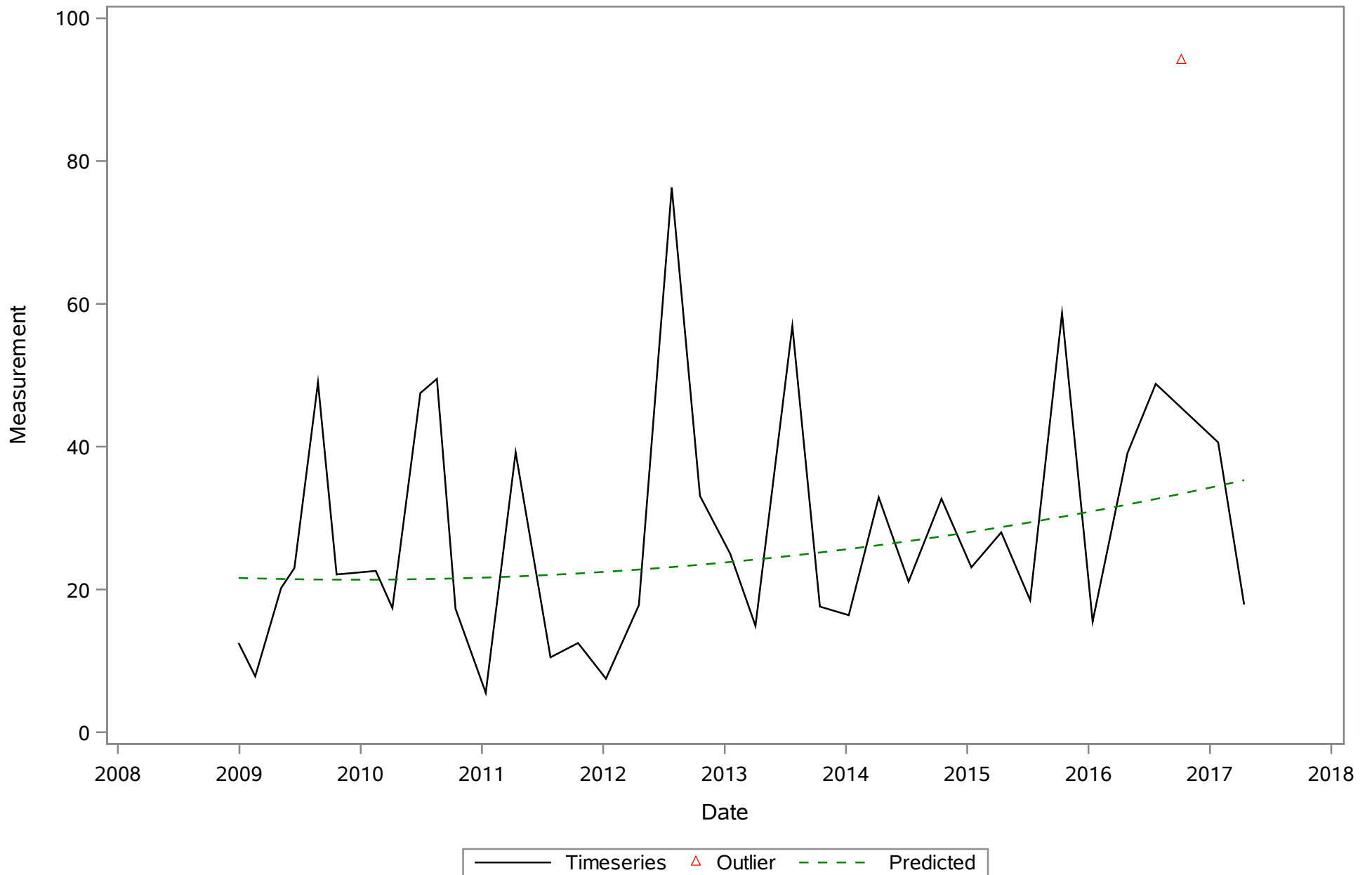


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Dissolved Oxygen (Total) mg/L

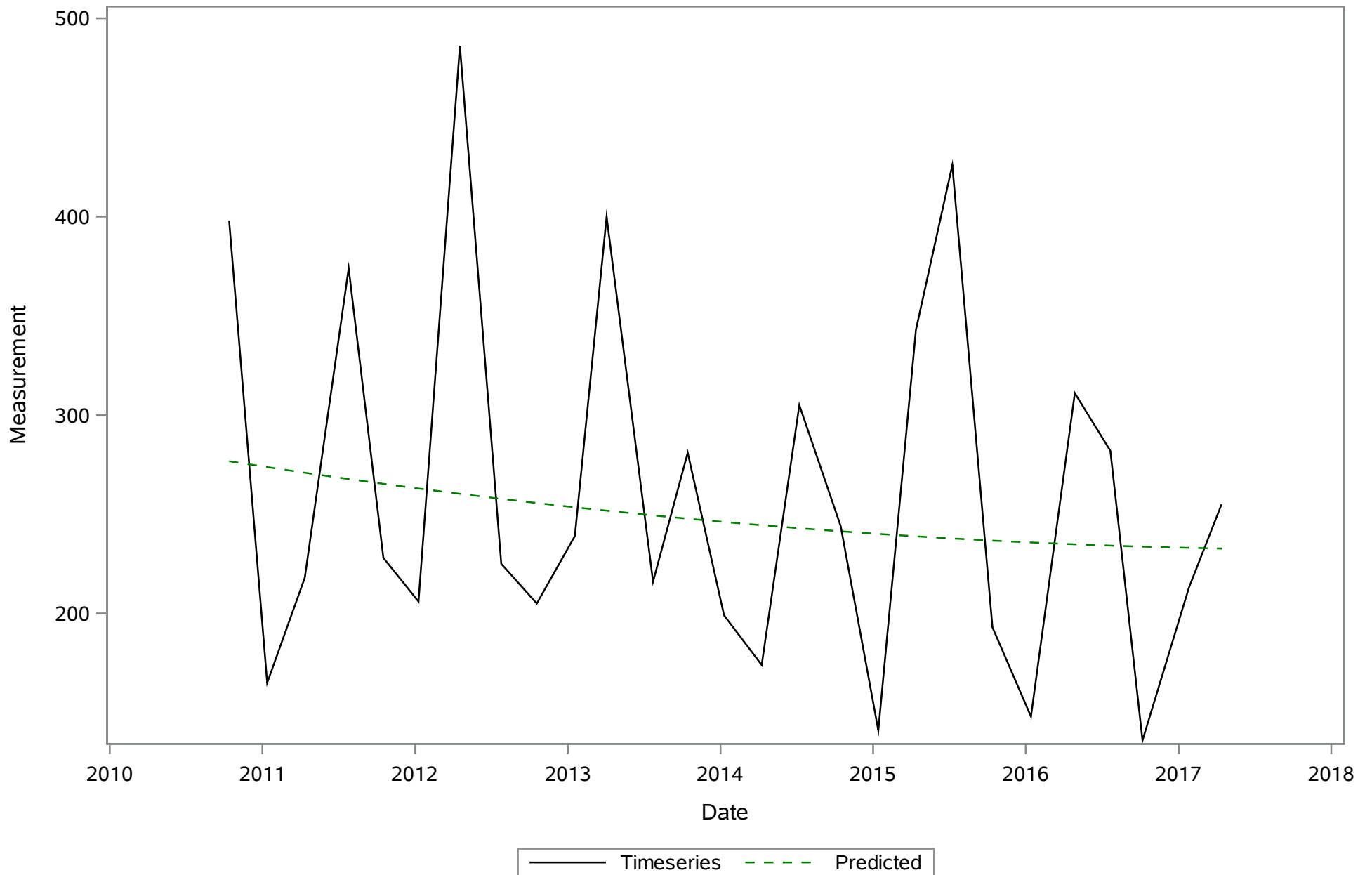


— Timeseries △ Outlier - - - Predicted

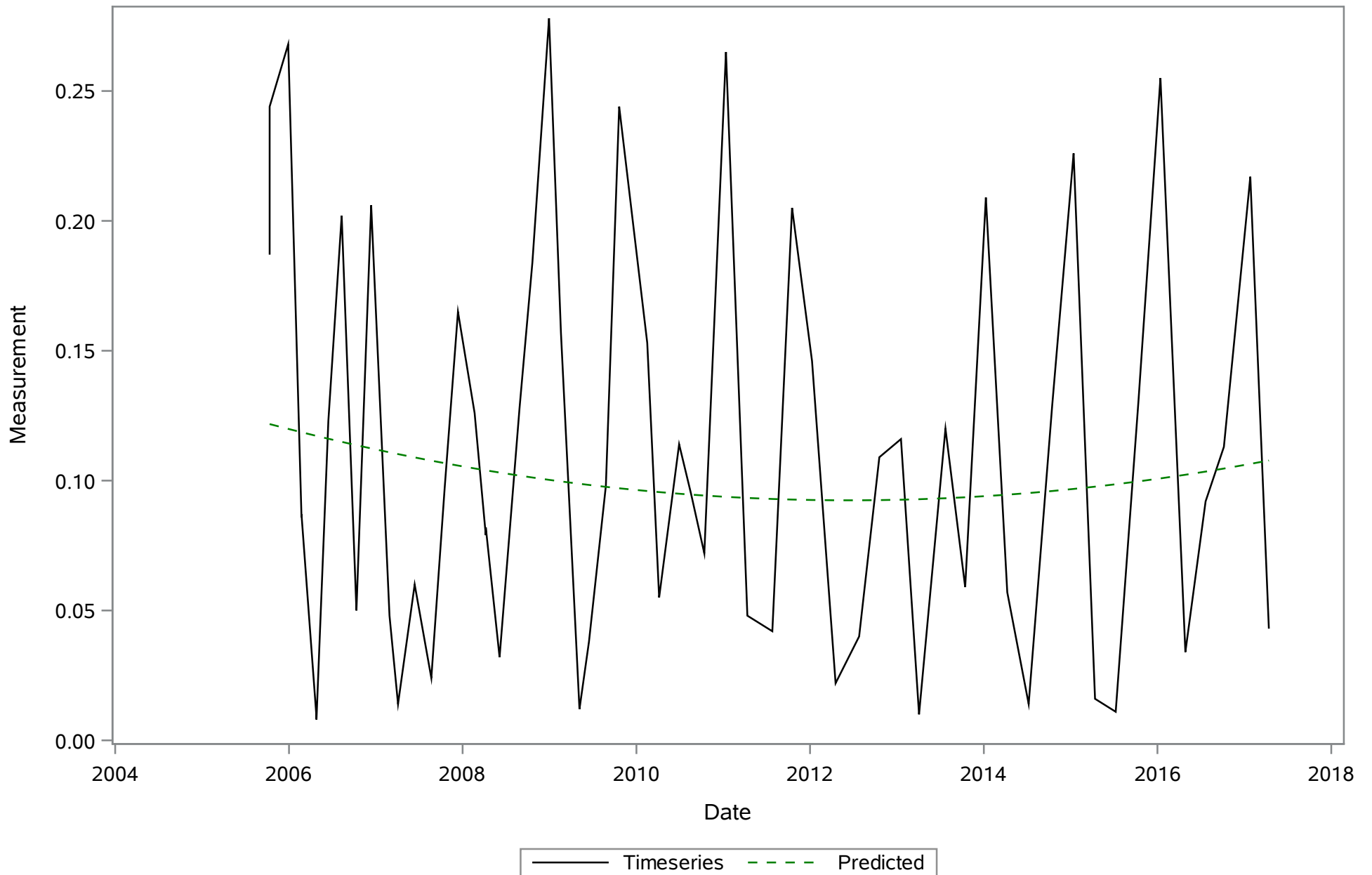
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Iron (Dissolved) ug/L



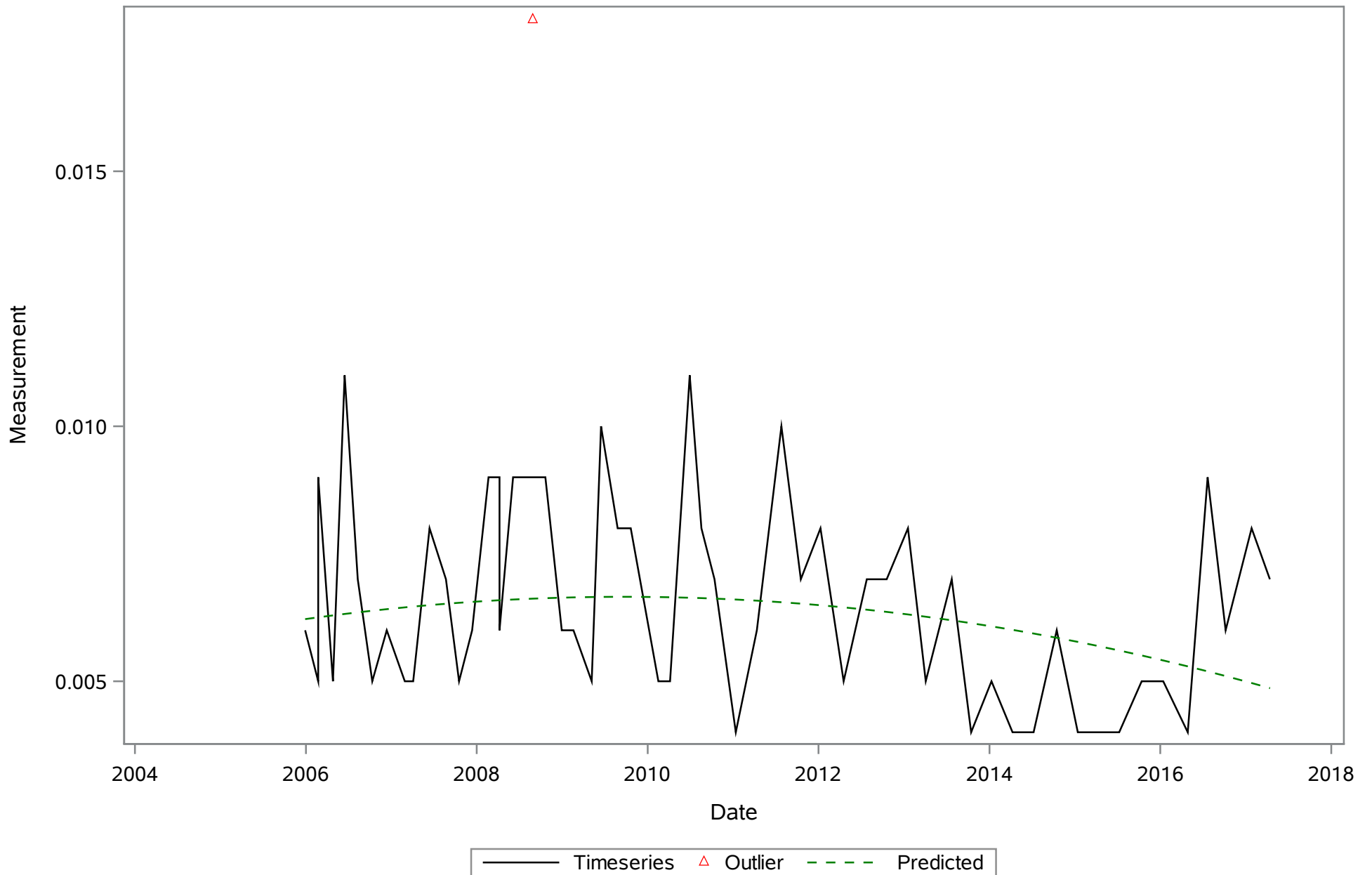
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Magnesium (Dissolved) mg/L



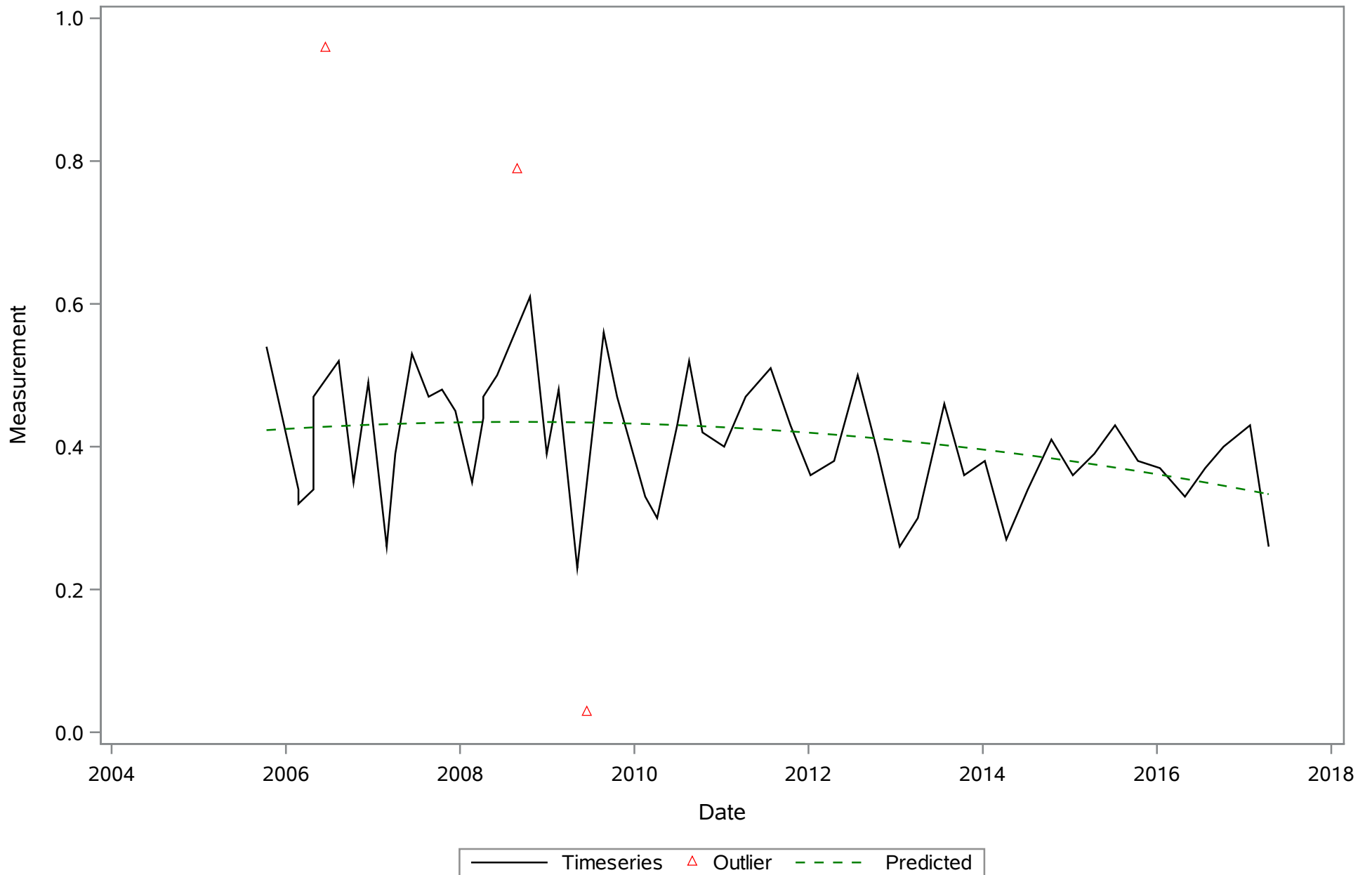
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrate-Nitrite (N) (Total) mg/L



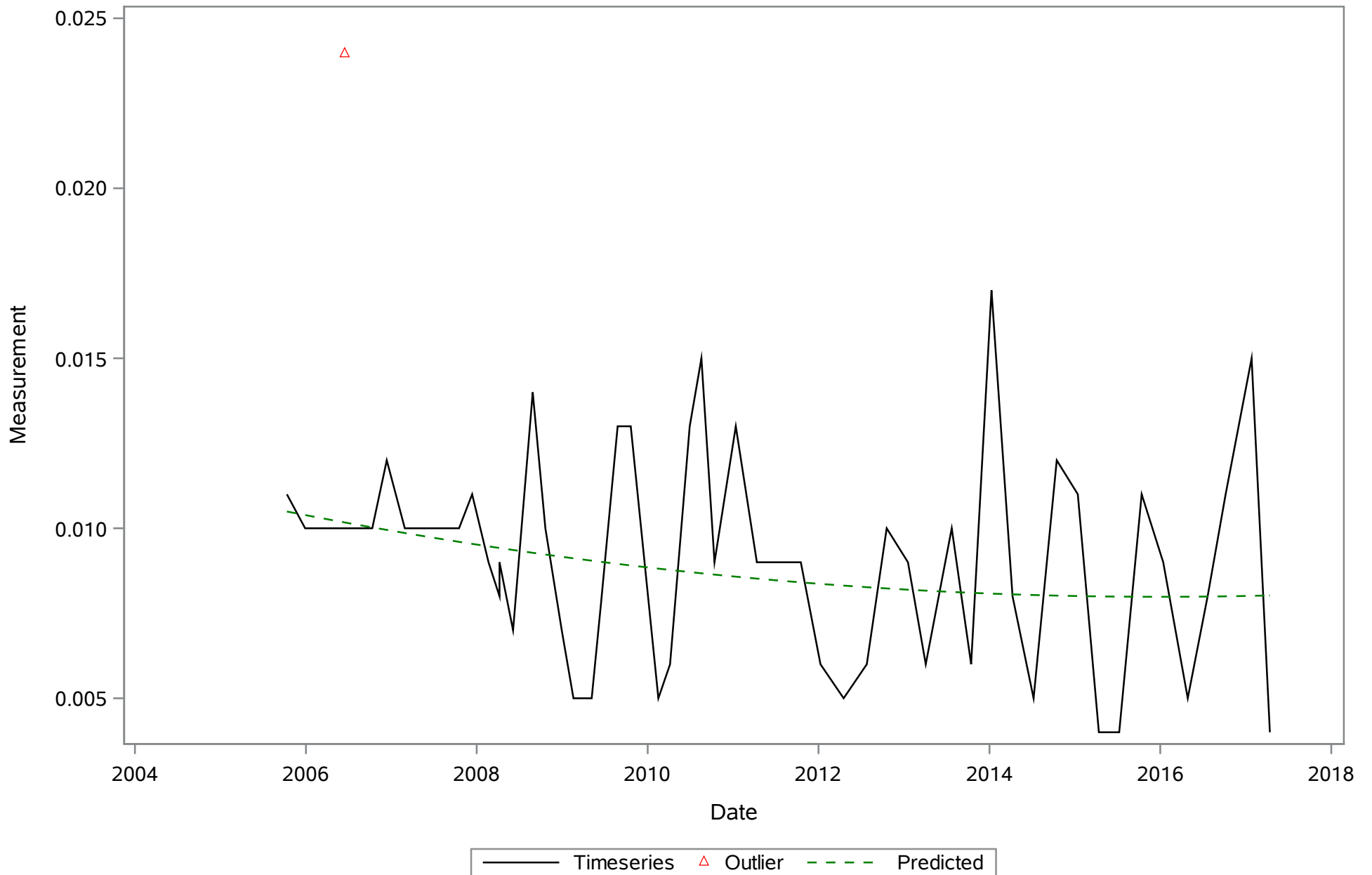
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrite (N) (Total) mg/L



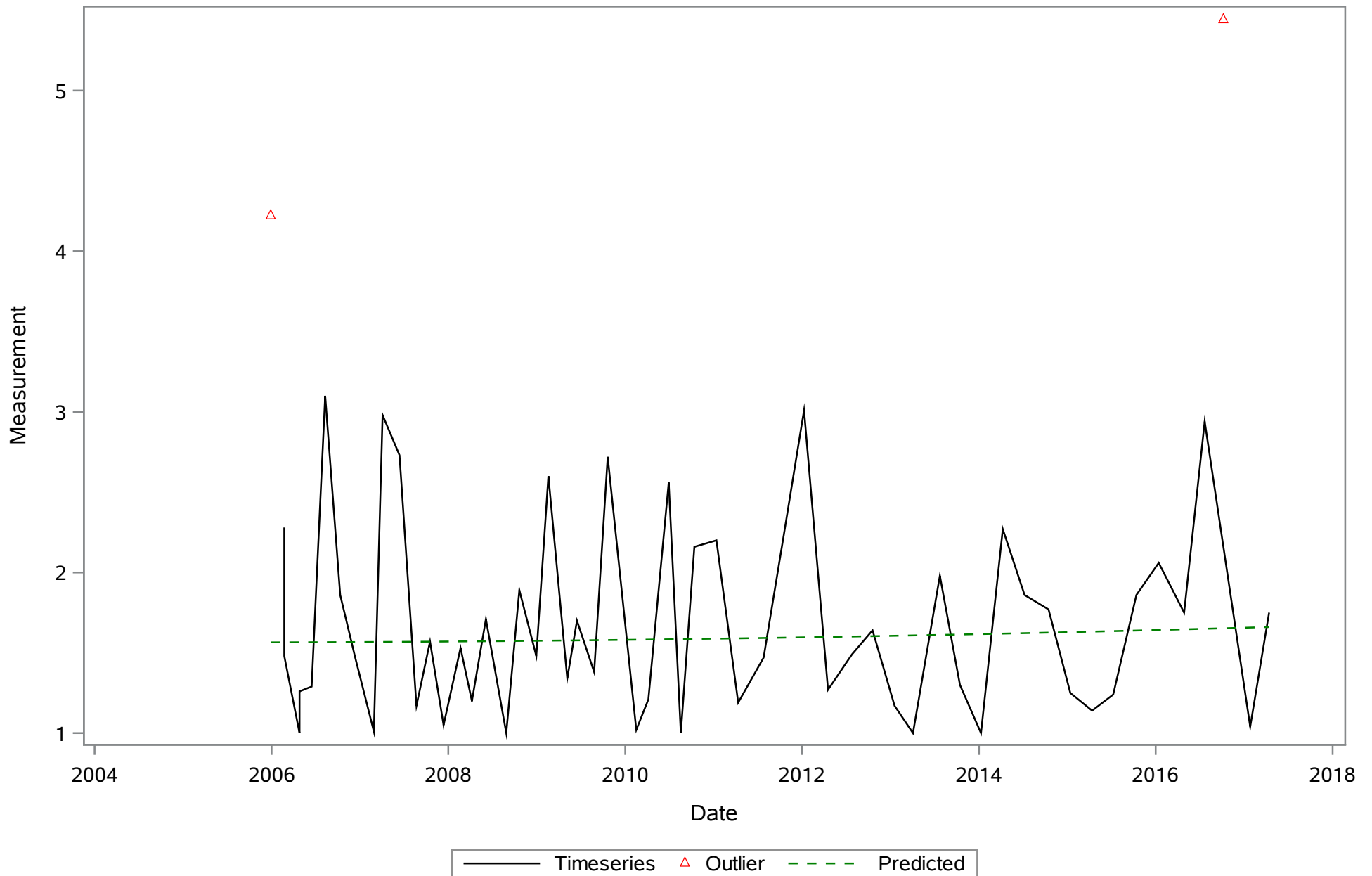
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrogen- Total (Total) mg/L



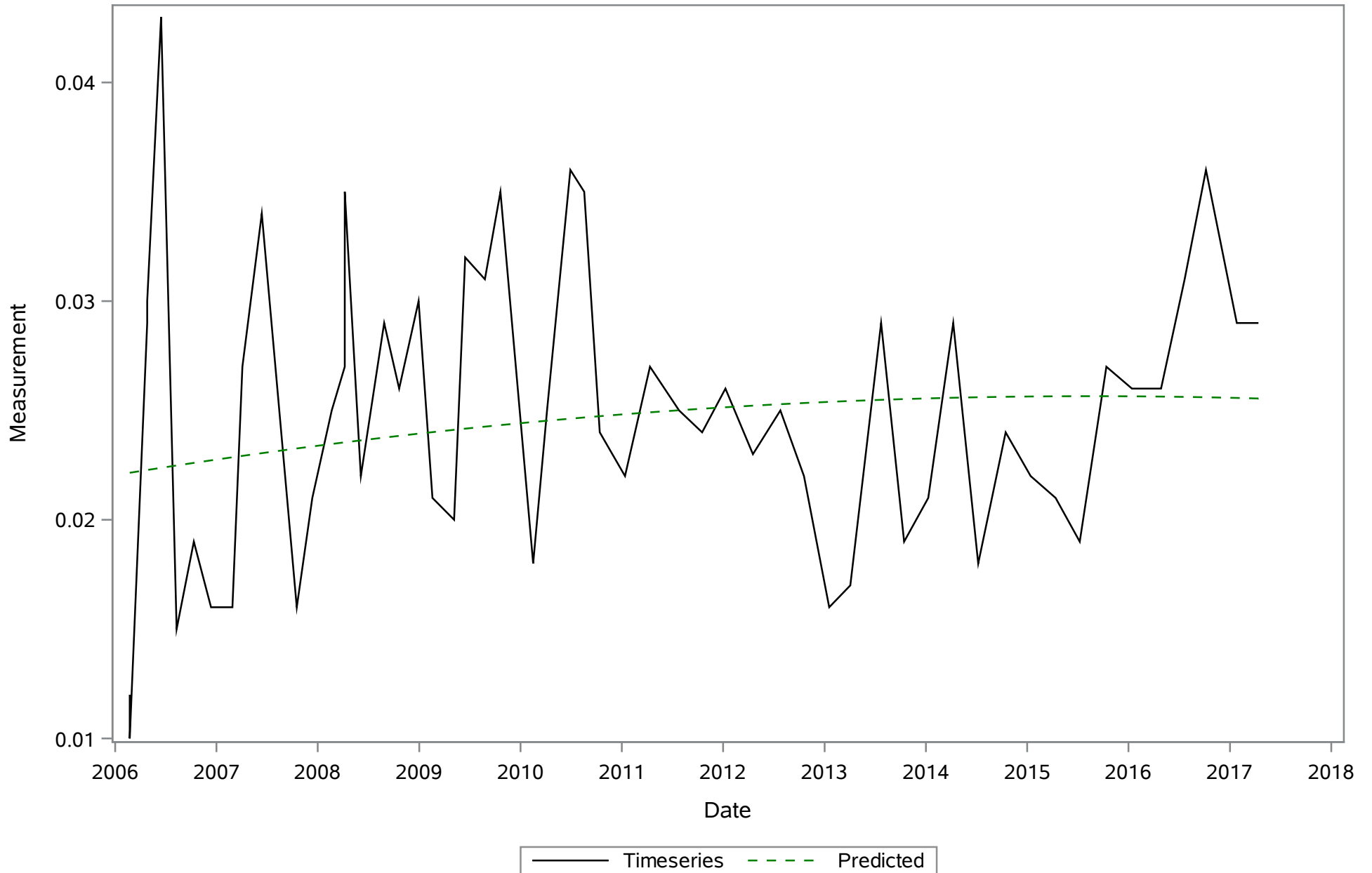
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Orthophosphate (P) (Dissolved) mg/L



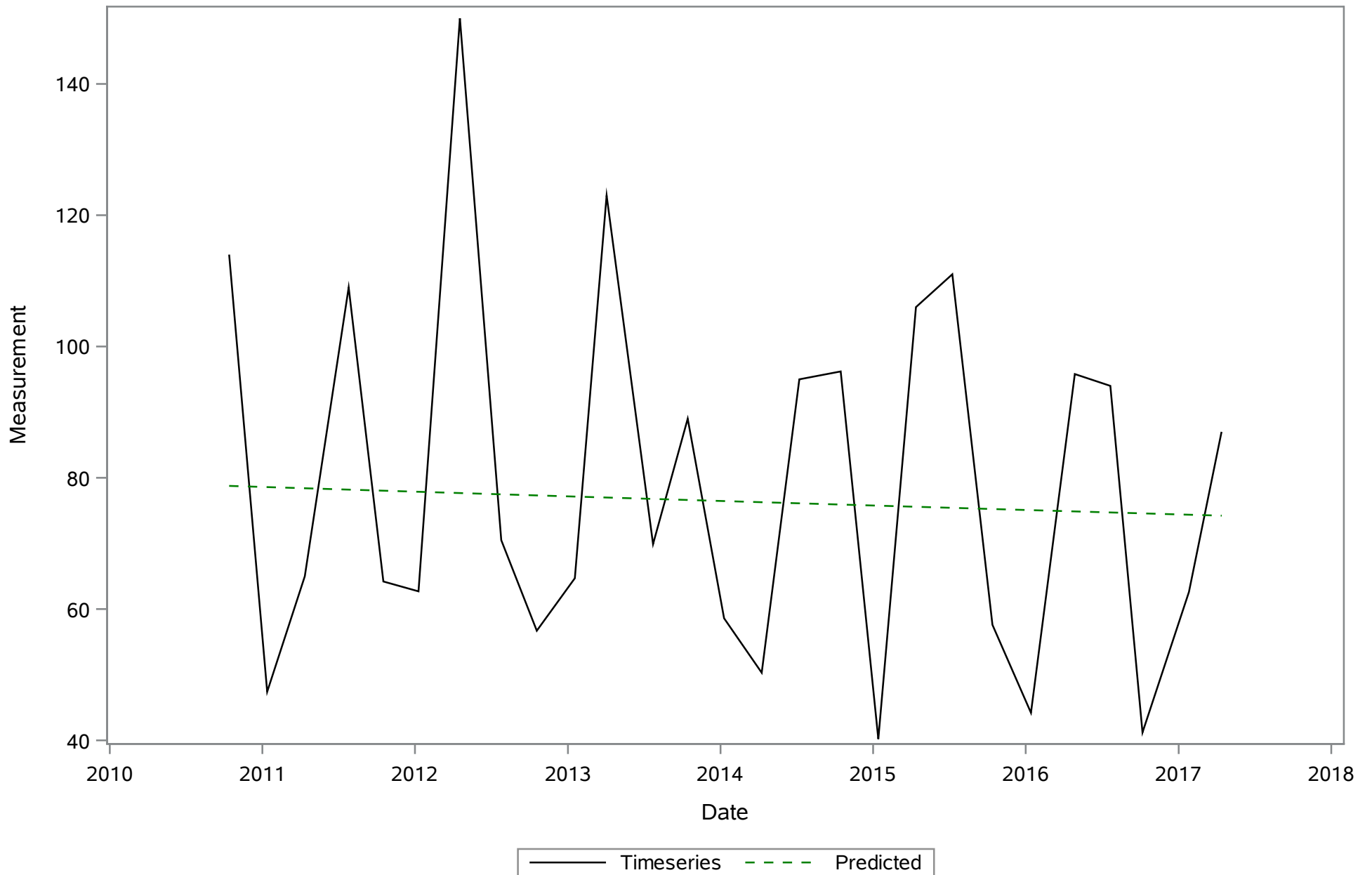
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phaeophytin (Total) ug/L



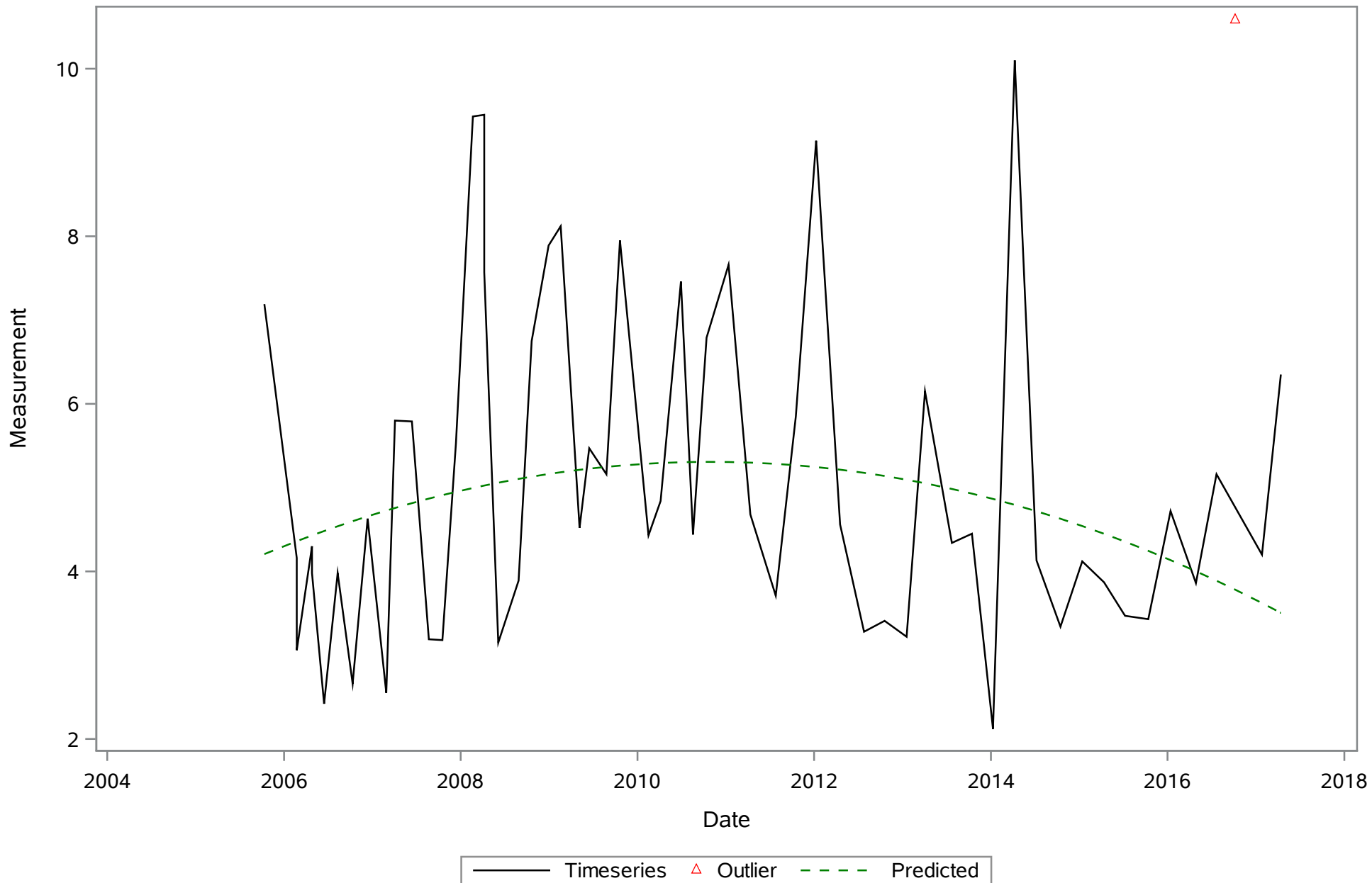
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phosphorus- Total (Total) mg/L



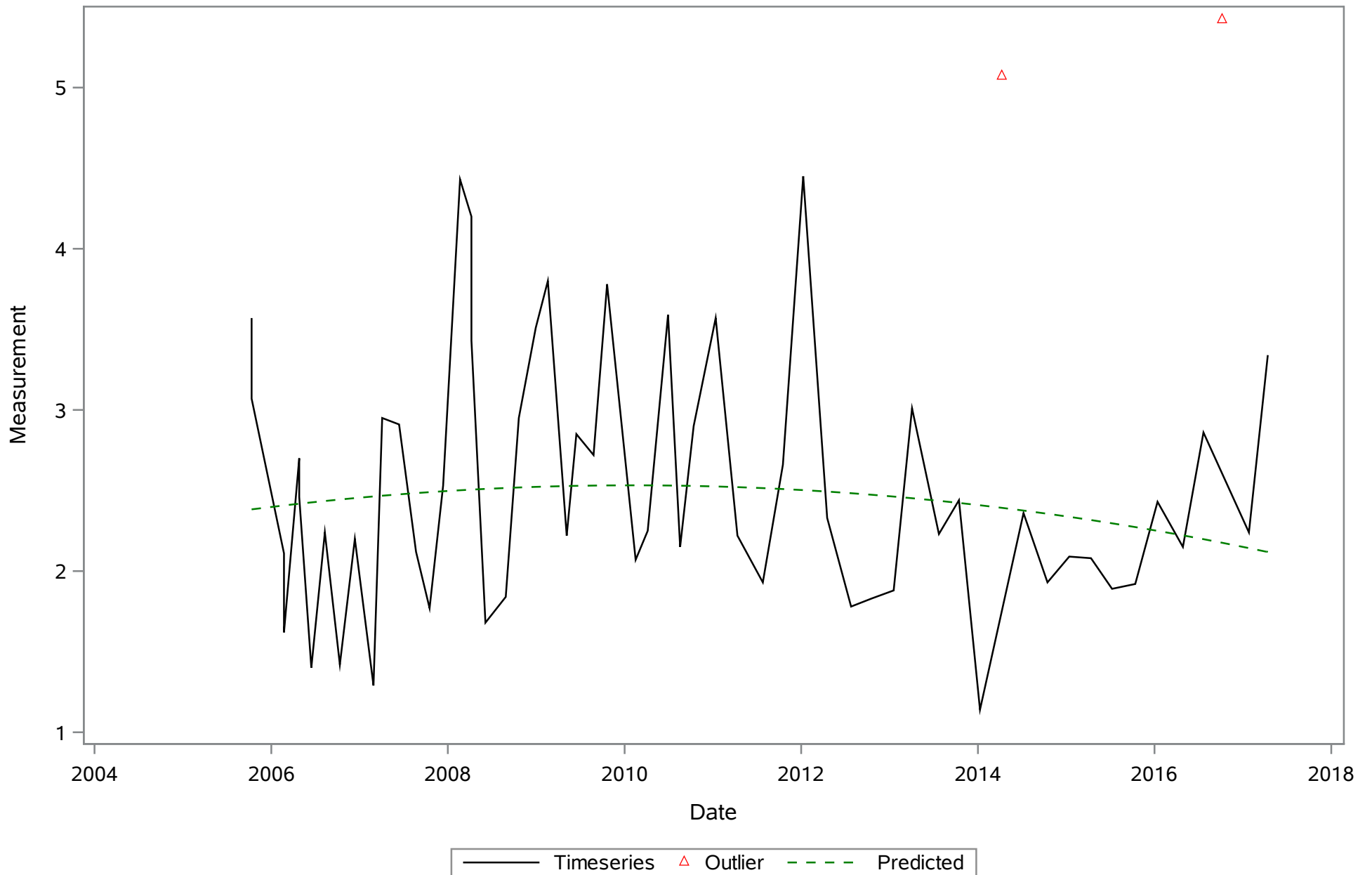
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Potassium (Dissolved) mg/L



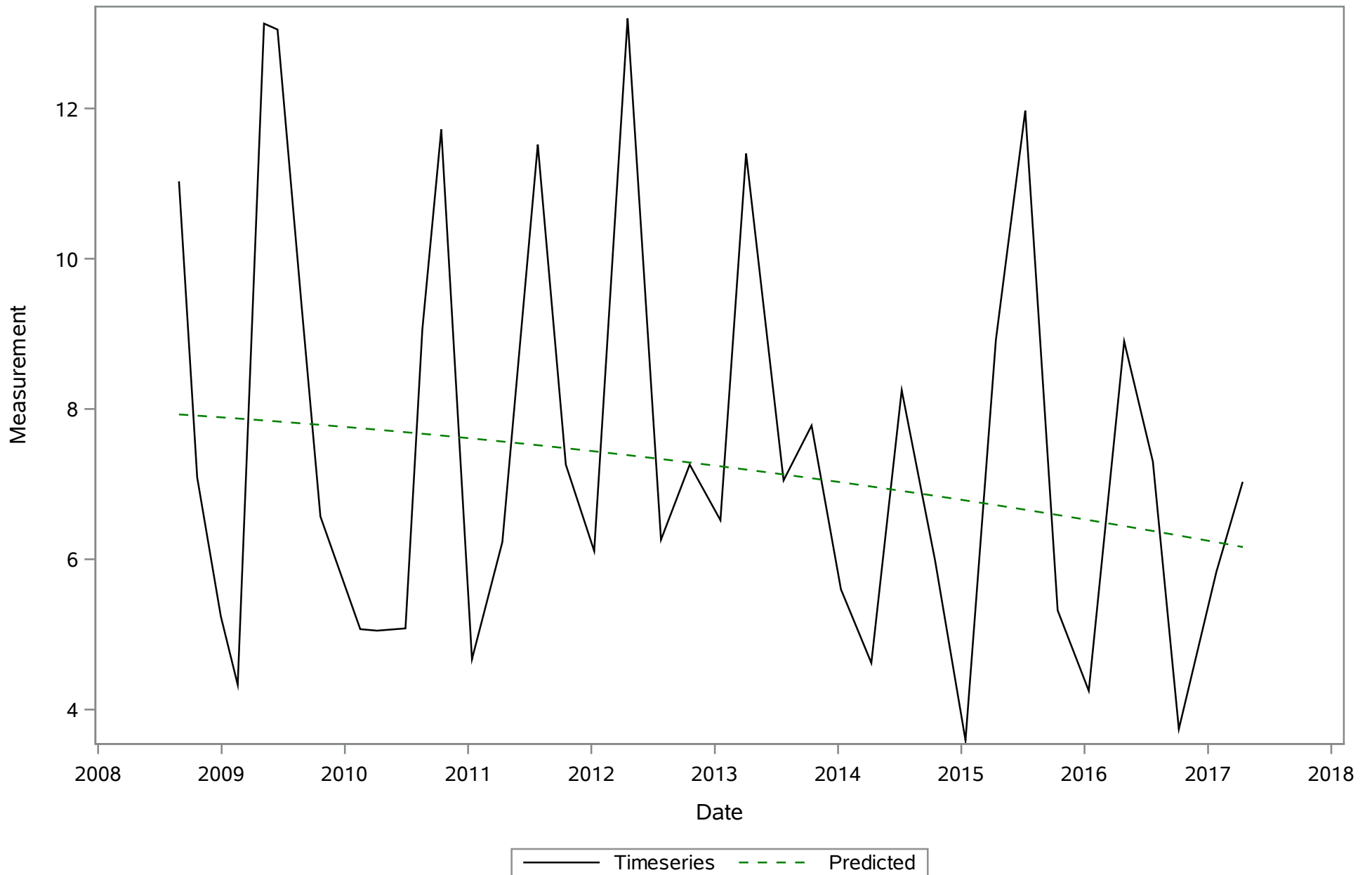
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Nonfilterable (TSS) (Total) mg/L



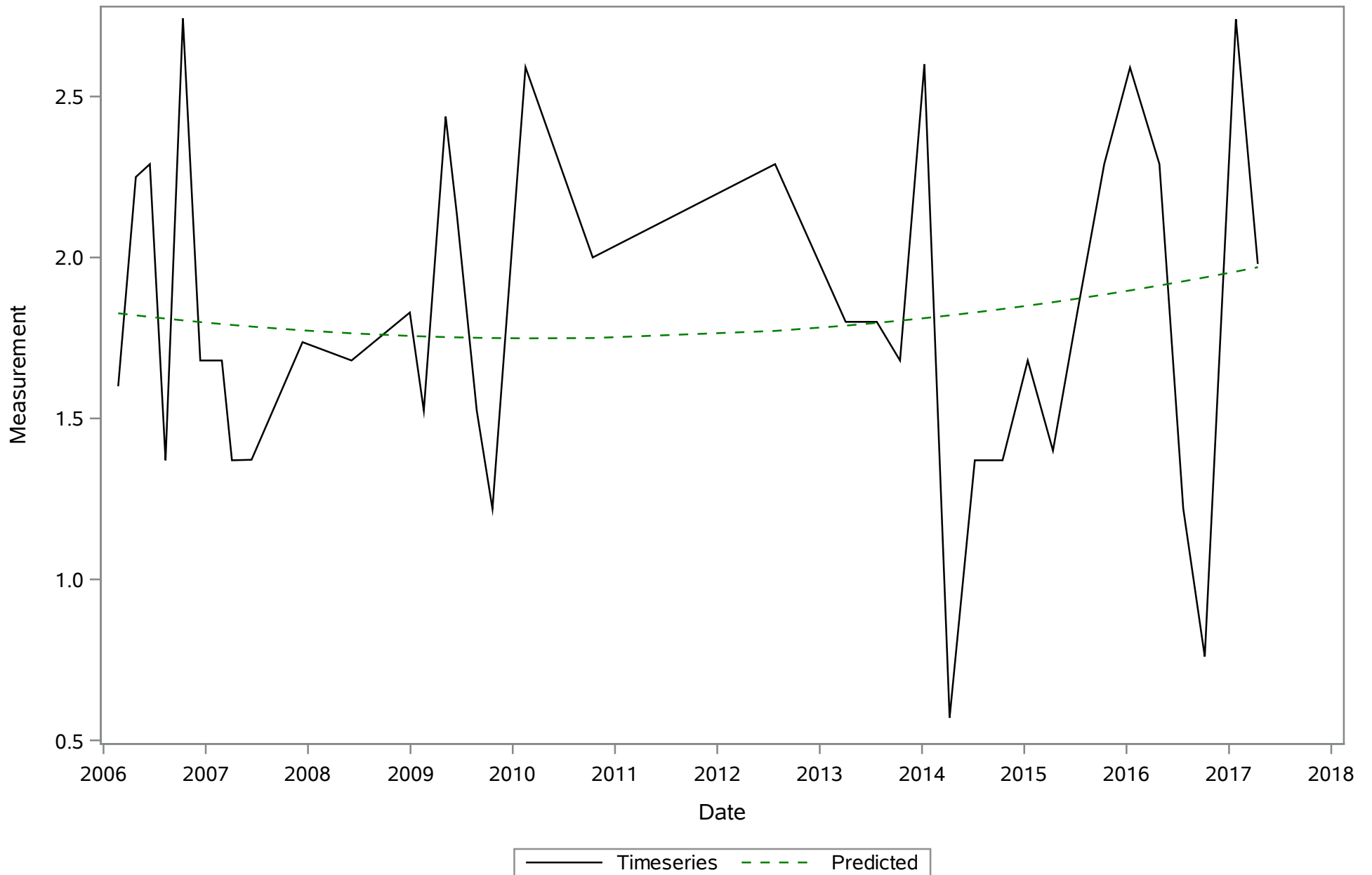
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Volatile (Total) mg/L



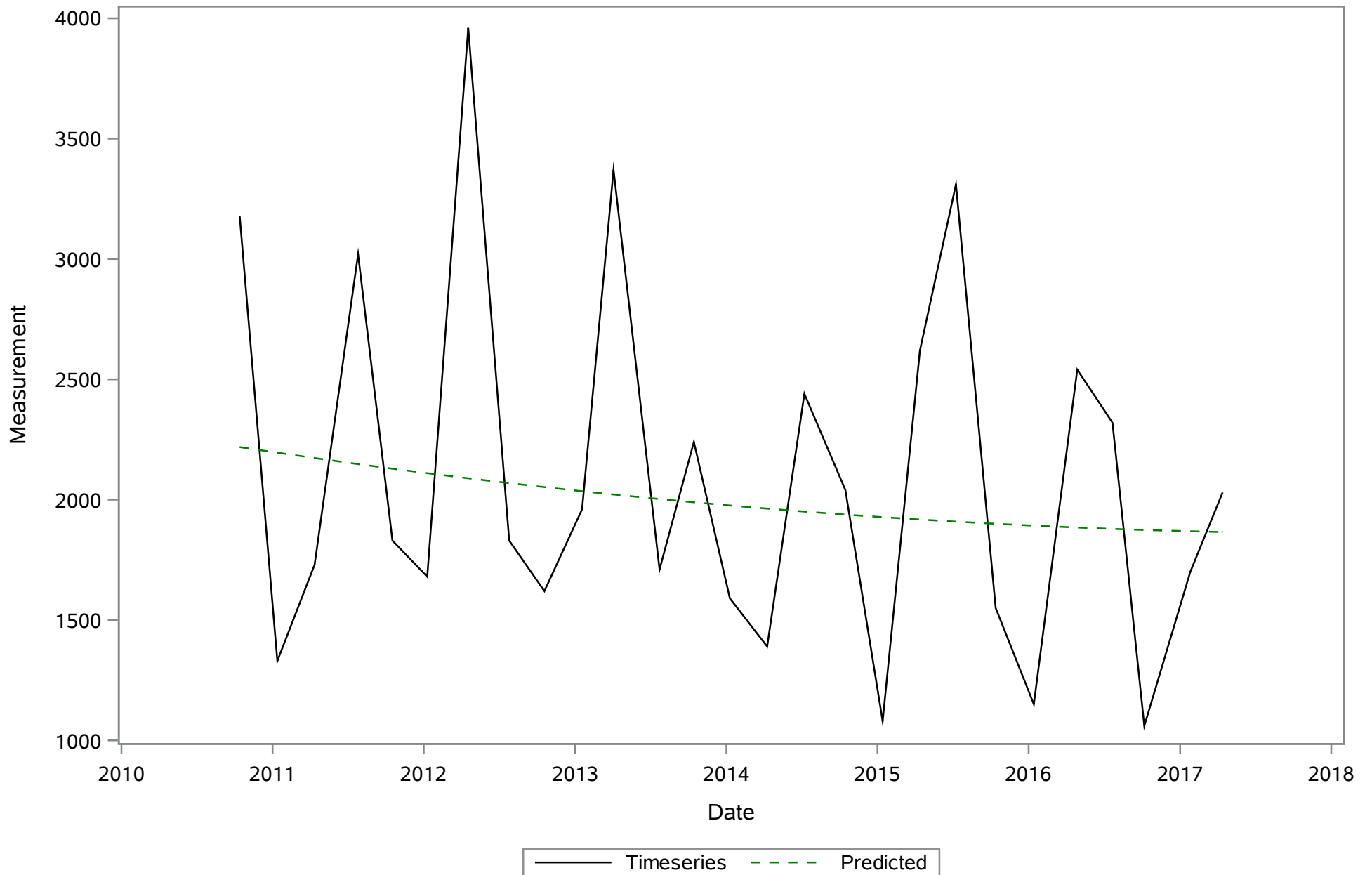
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Salinity (Total) ppt



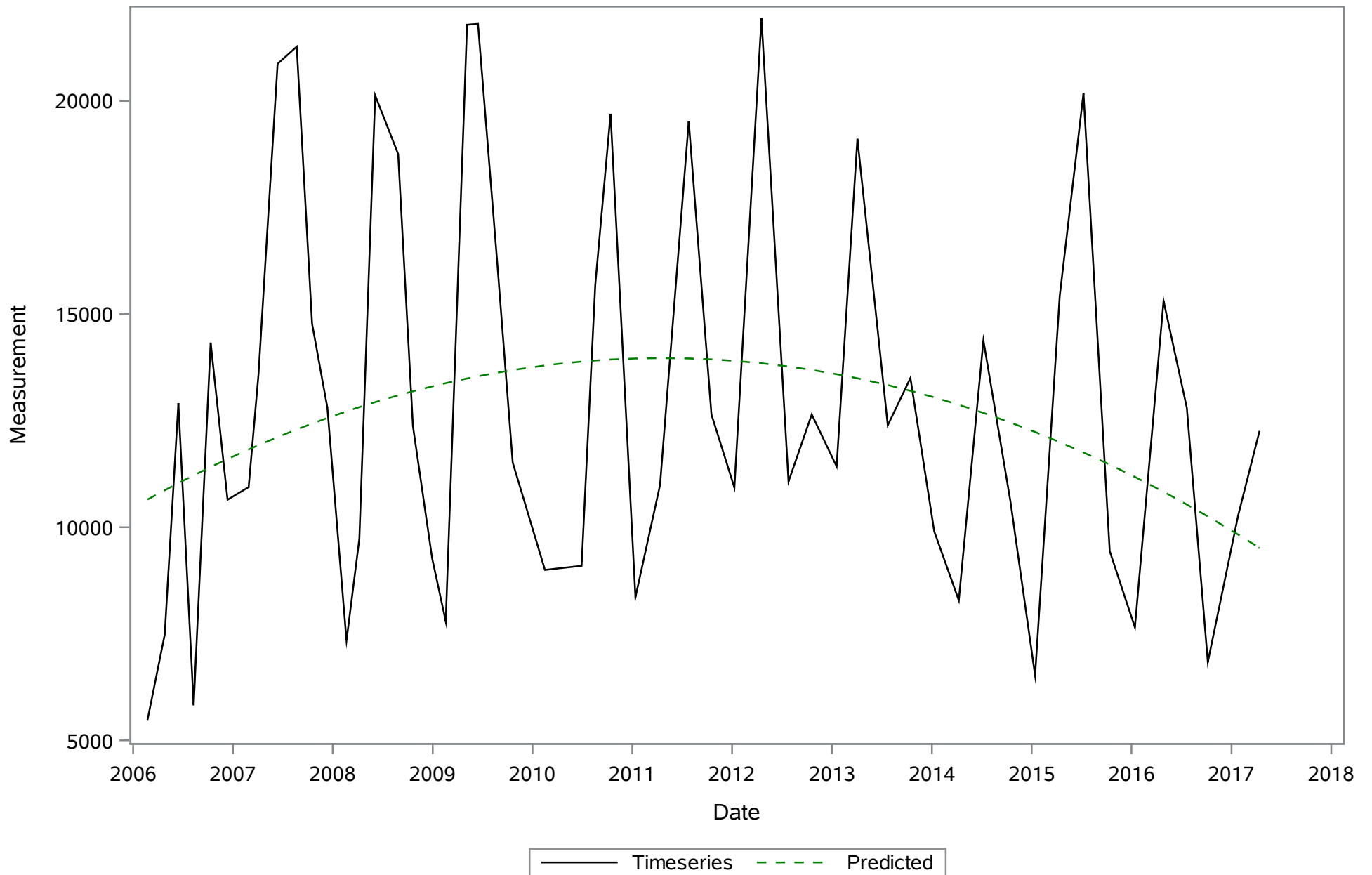
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Secchi-horizontal (Total) Meters



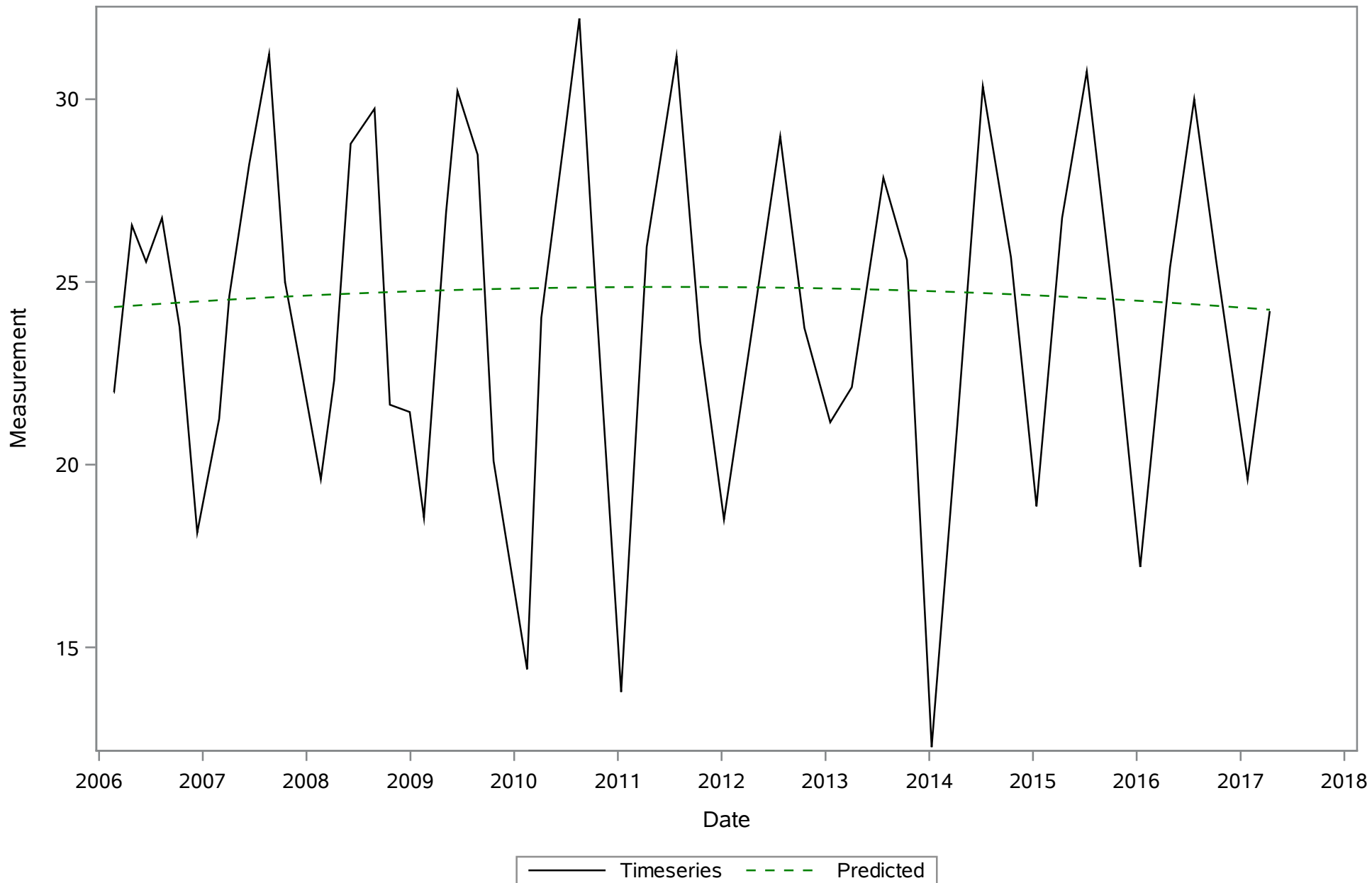
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Sodium (Dissolved) mg/L



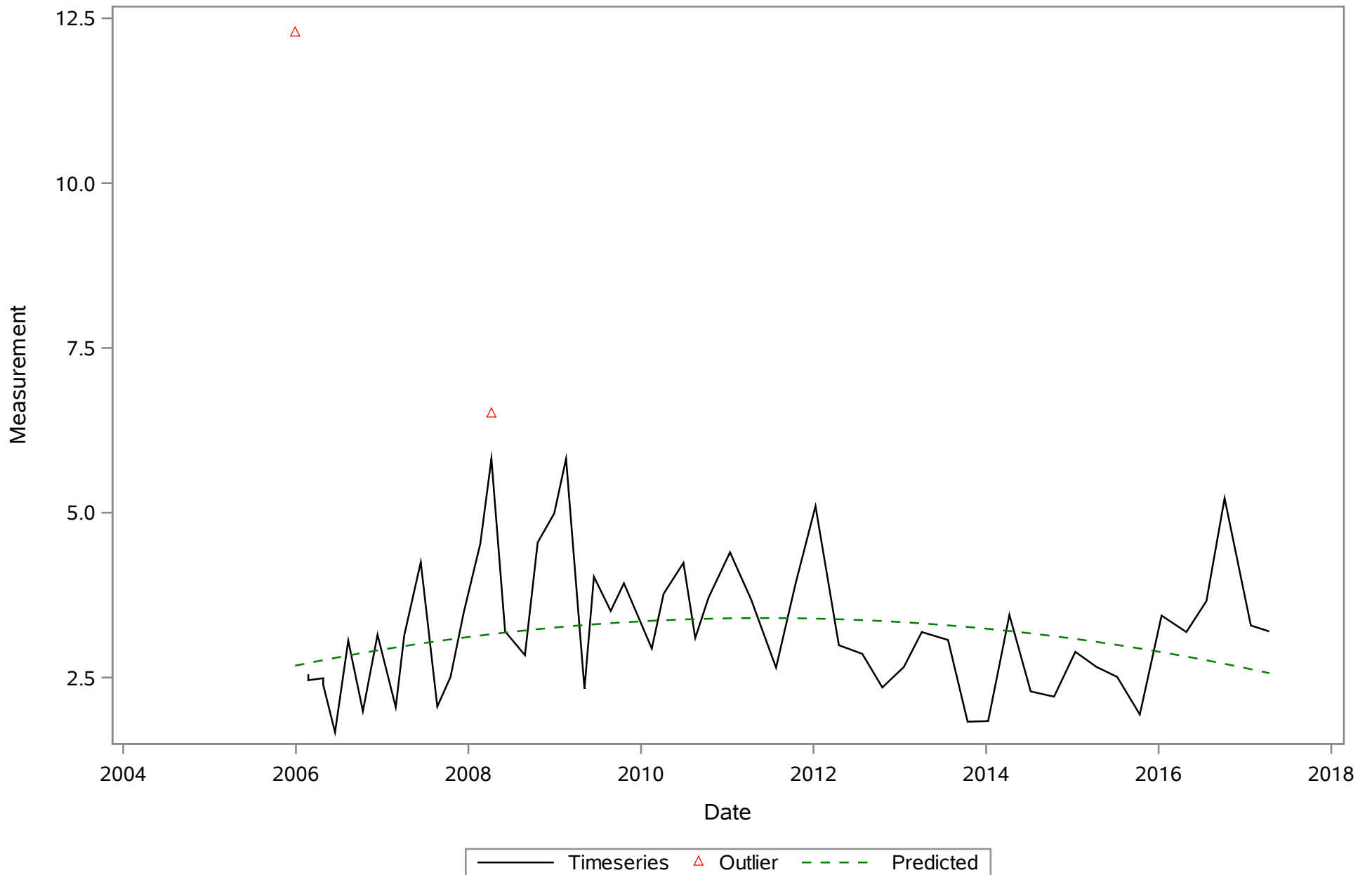
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Specific Conductance (Total) uS/cm



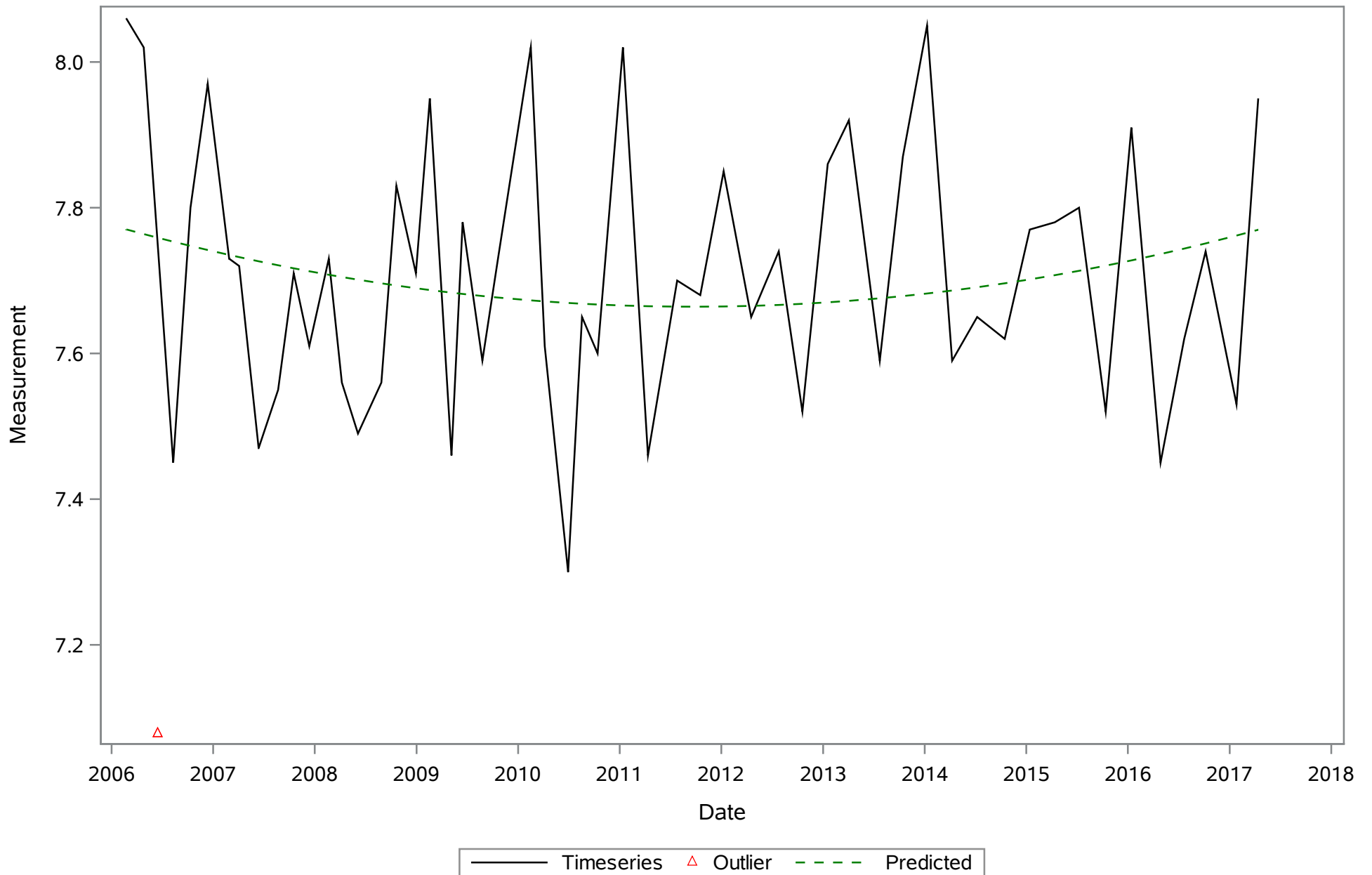
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Temperature (Total) Deg. C



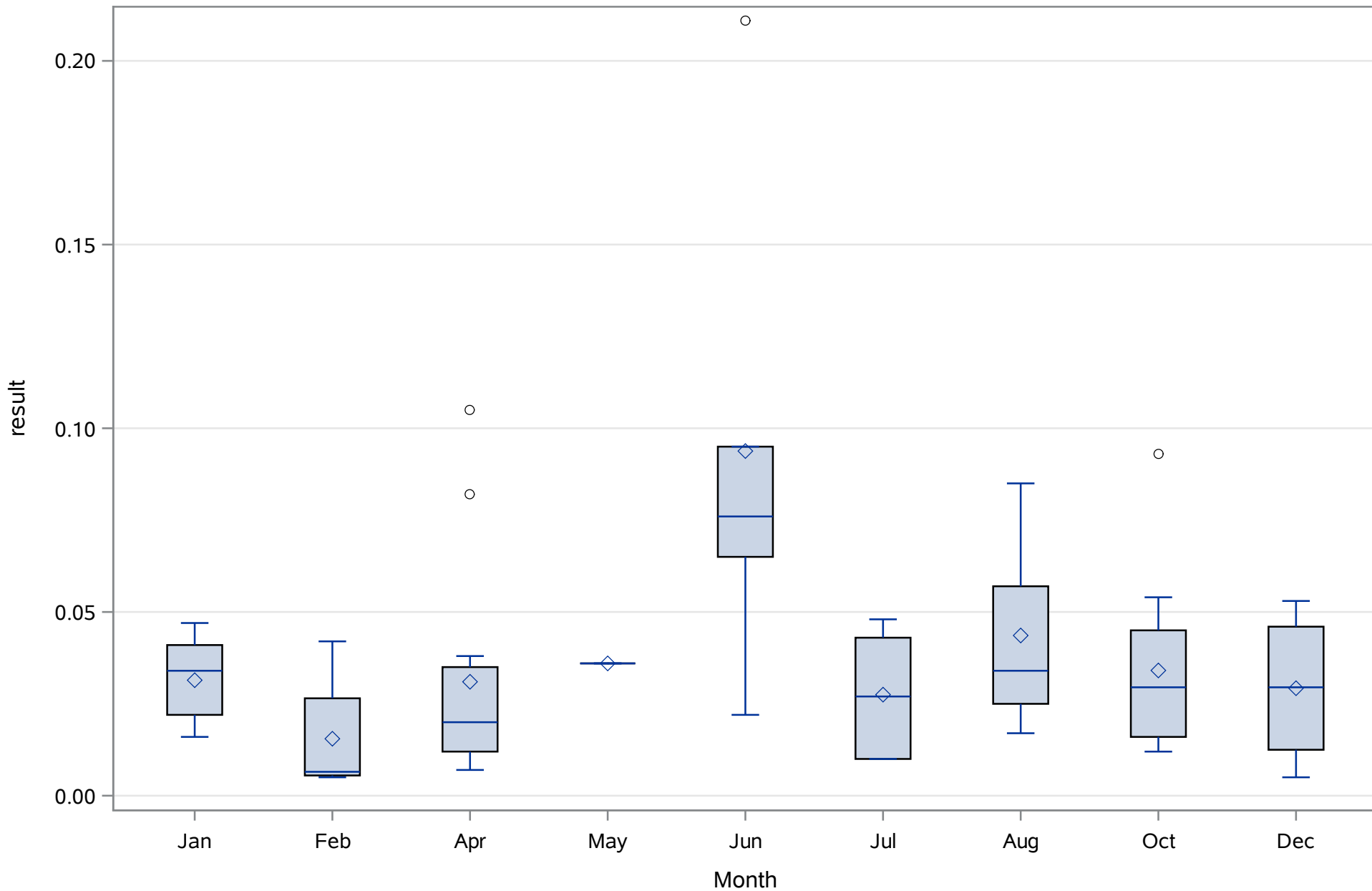
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Turbidity (Total) NTU



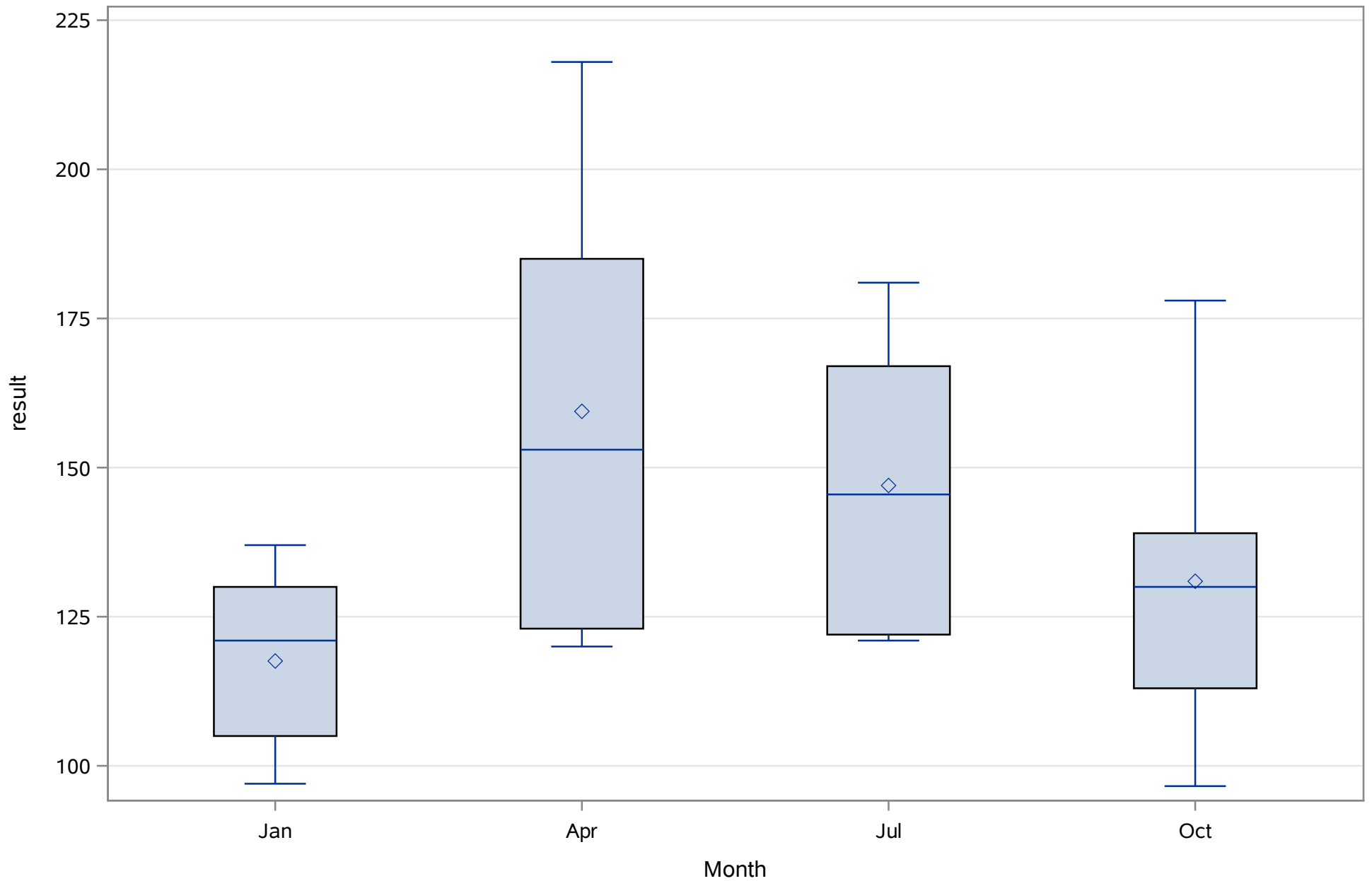
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
pH (Total) SU



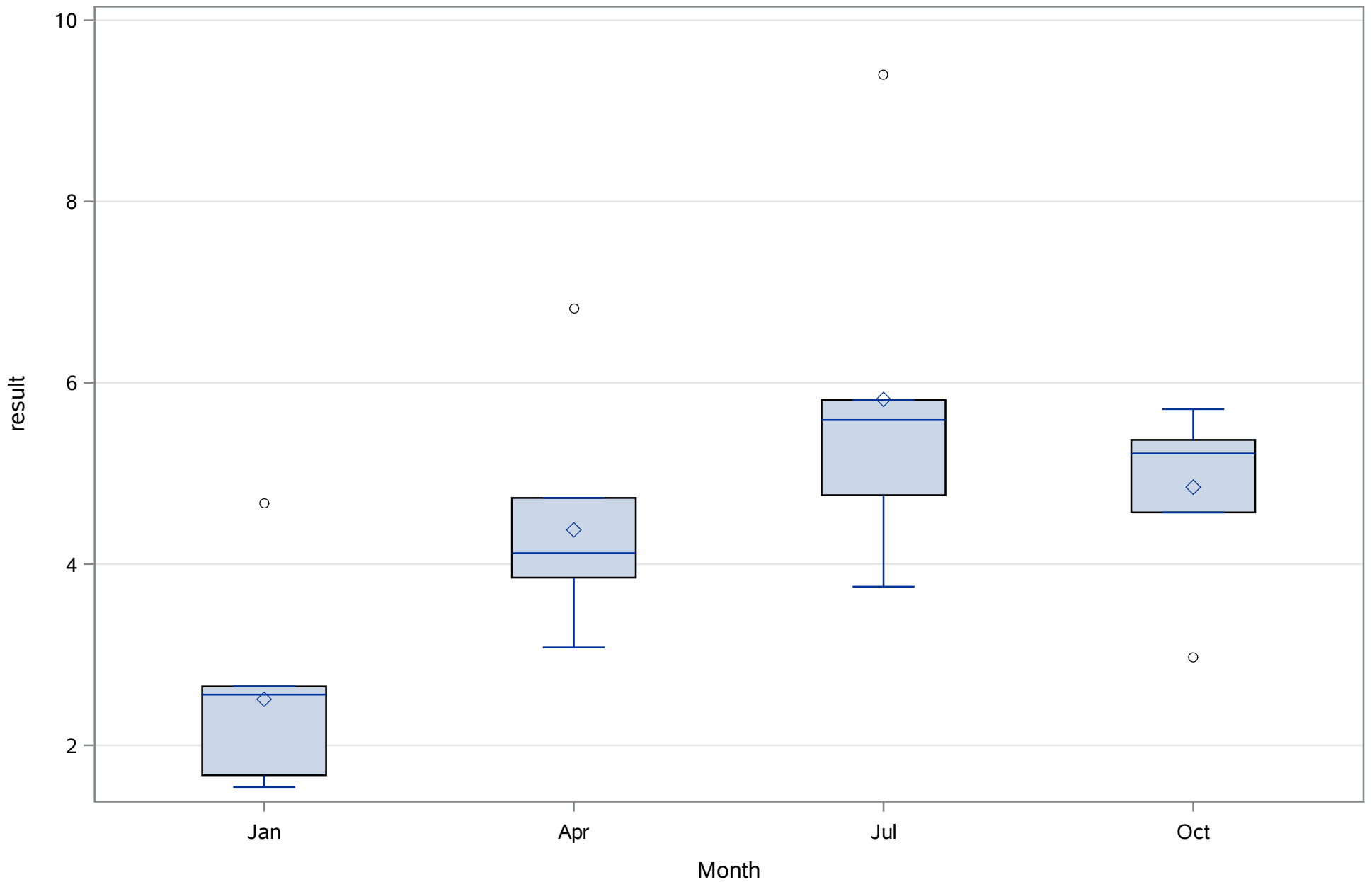
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Ammonia (N) (Total) mg/L



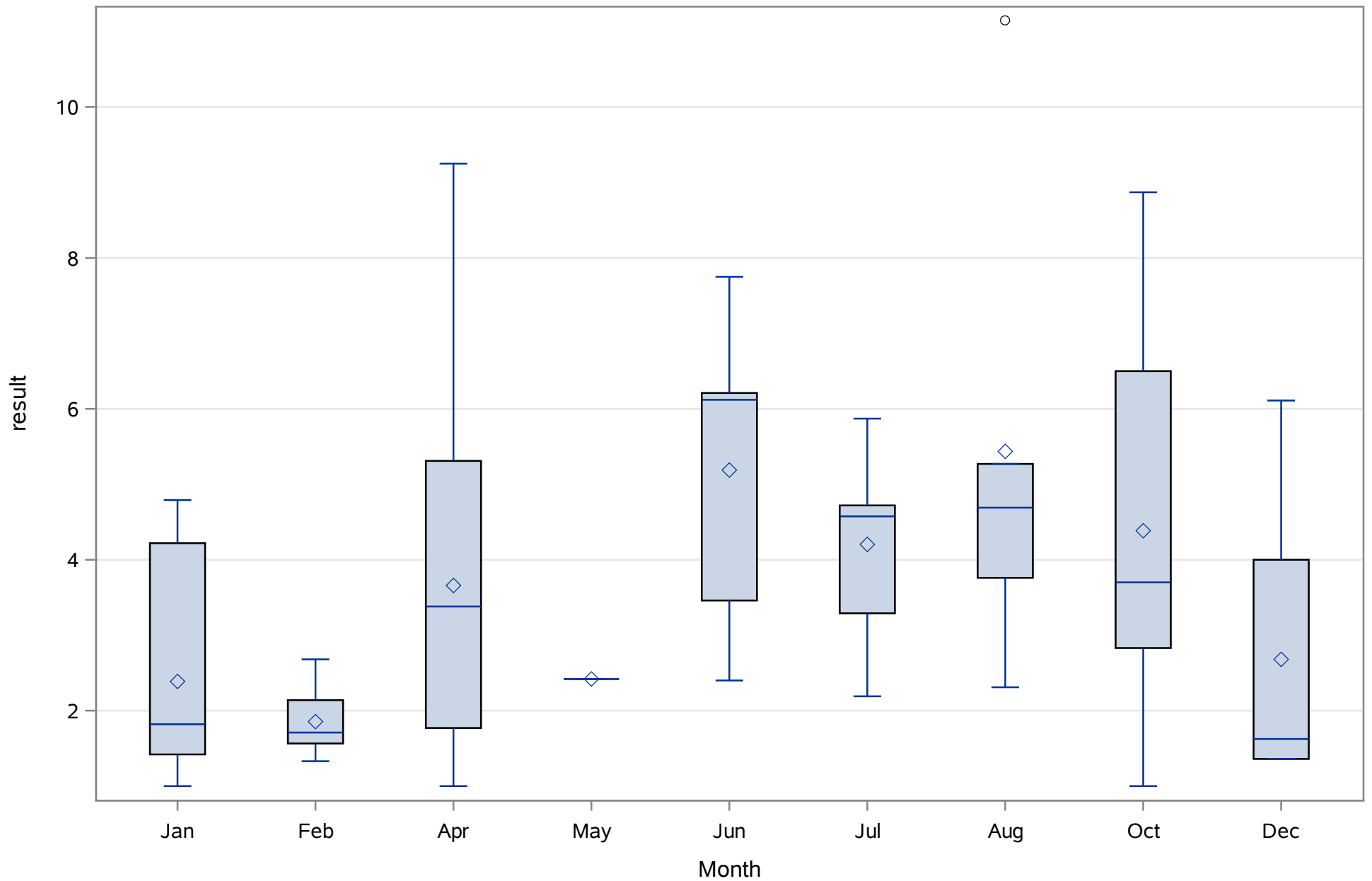
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Calcium (Dissolved) mg/L



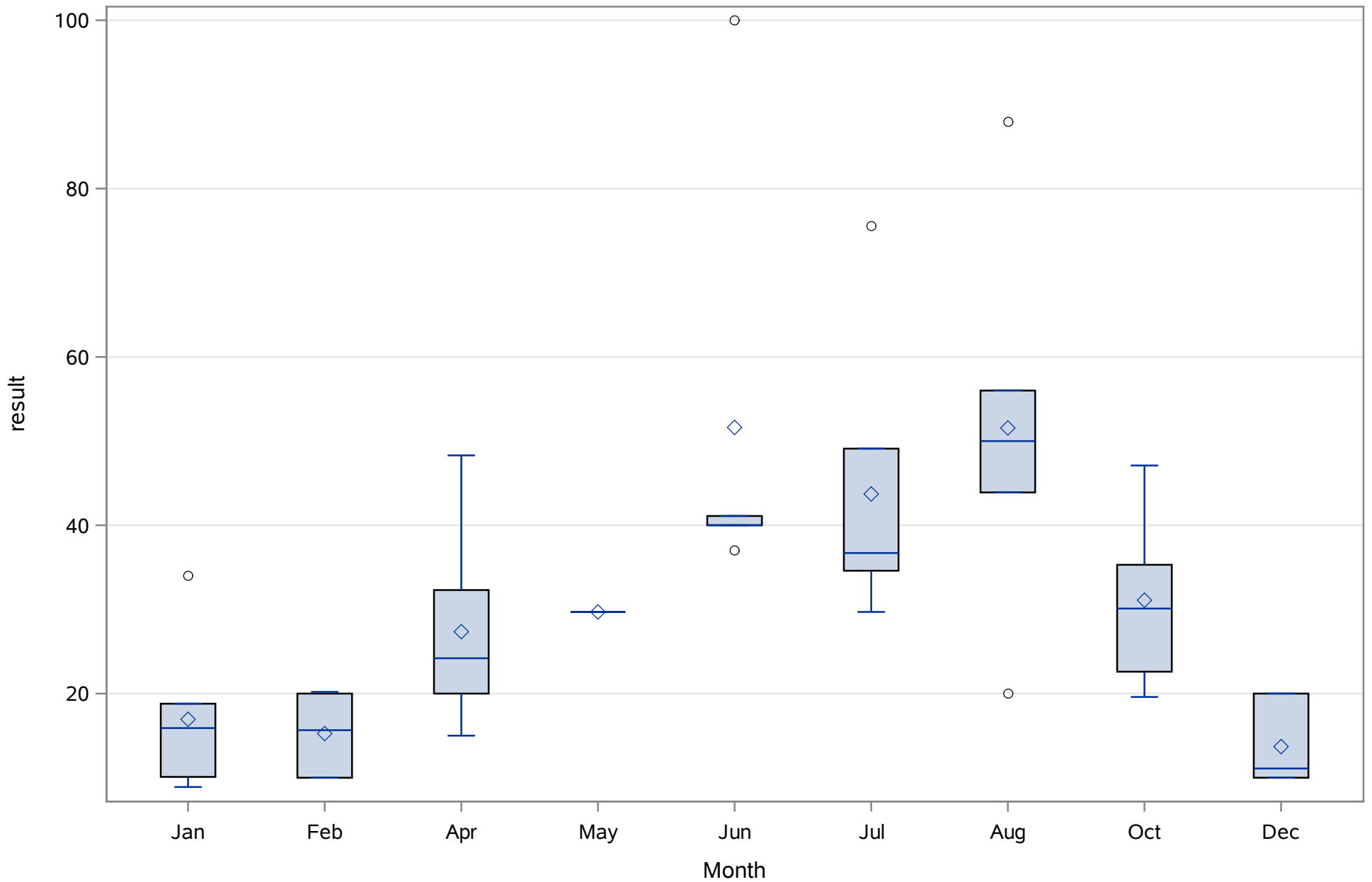
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Carbon- Total Organic (Total) mg/L



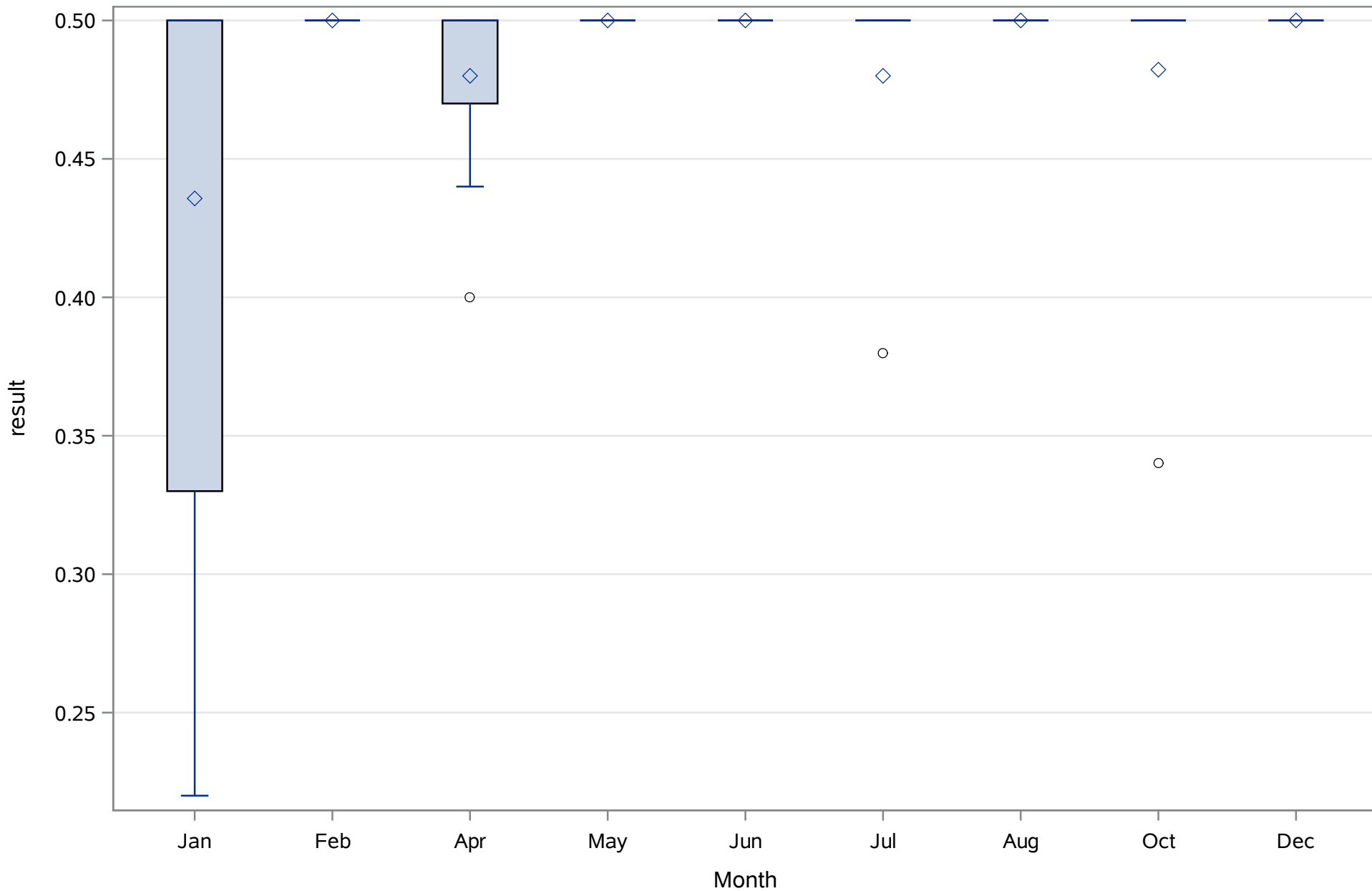
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Chlorophyll a (Total) ug/L



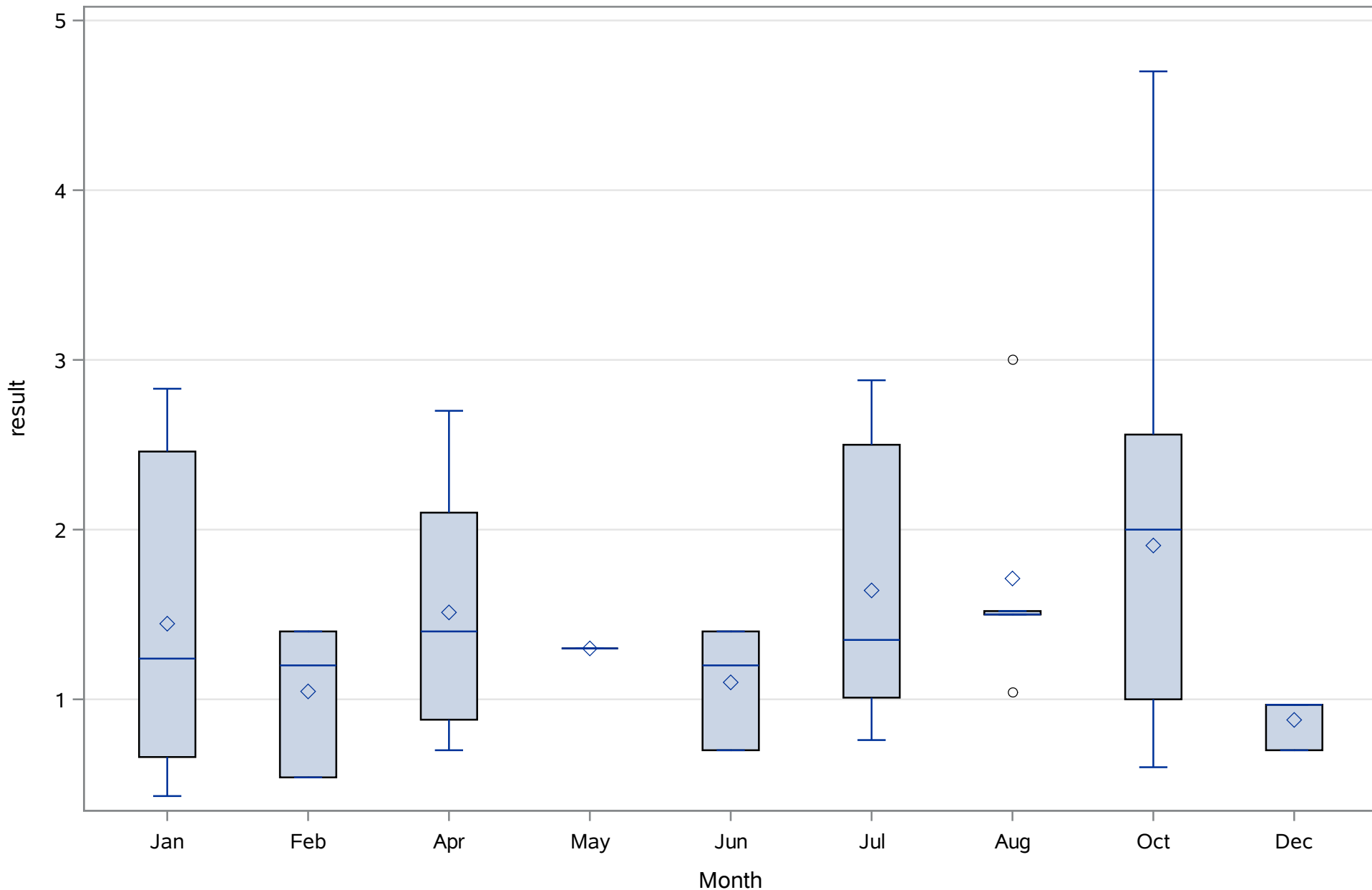
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Color (Dissolved) PCU



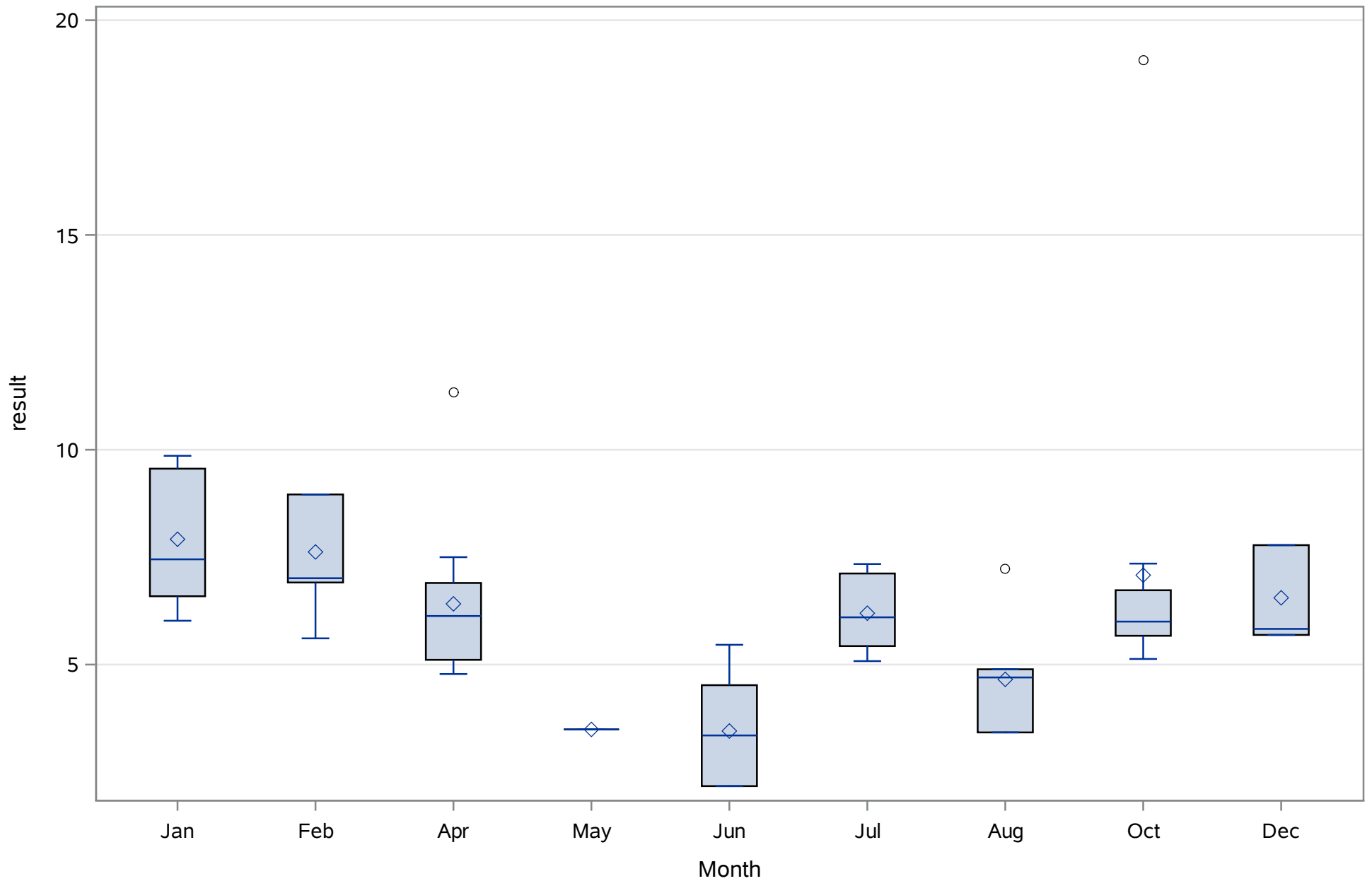
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth (Total) Meters



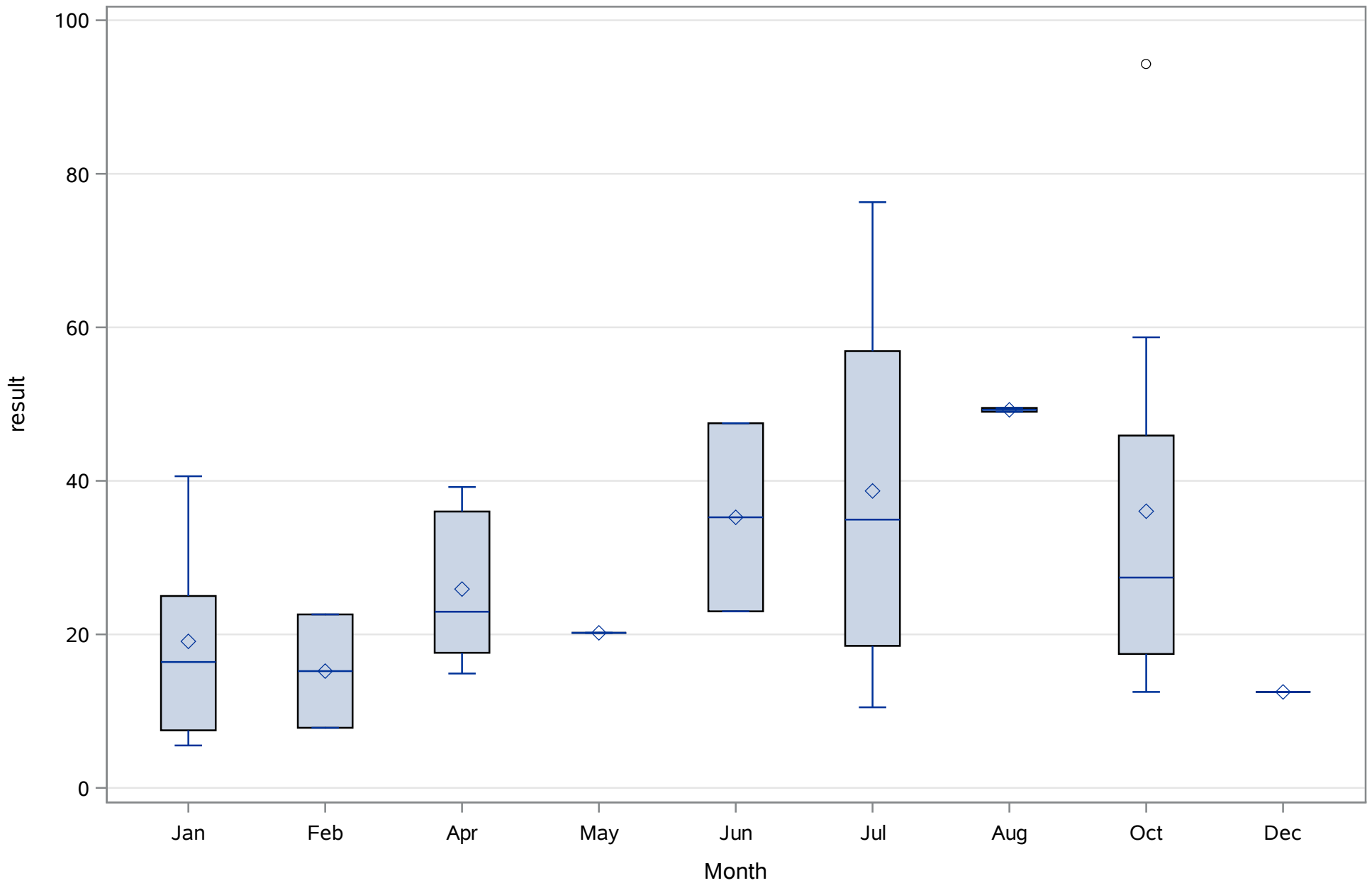
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Depth, bottom (Total) Meters



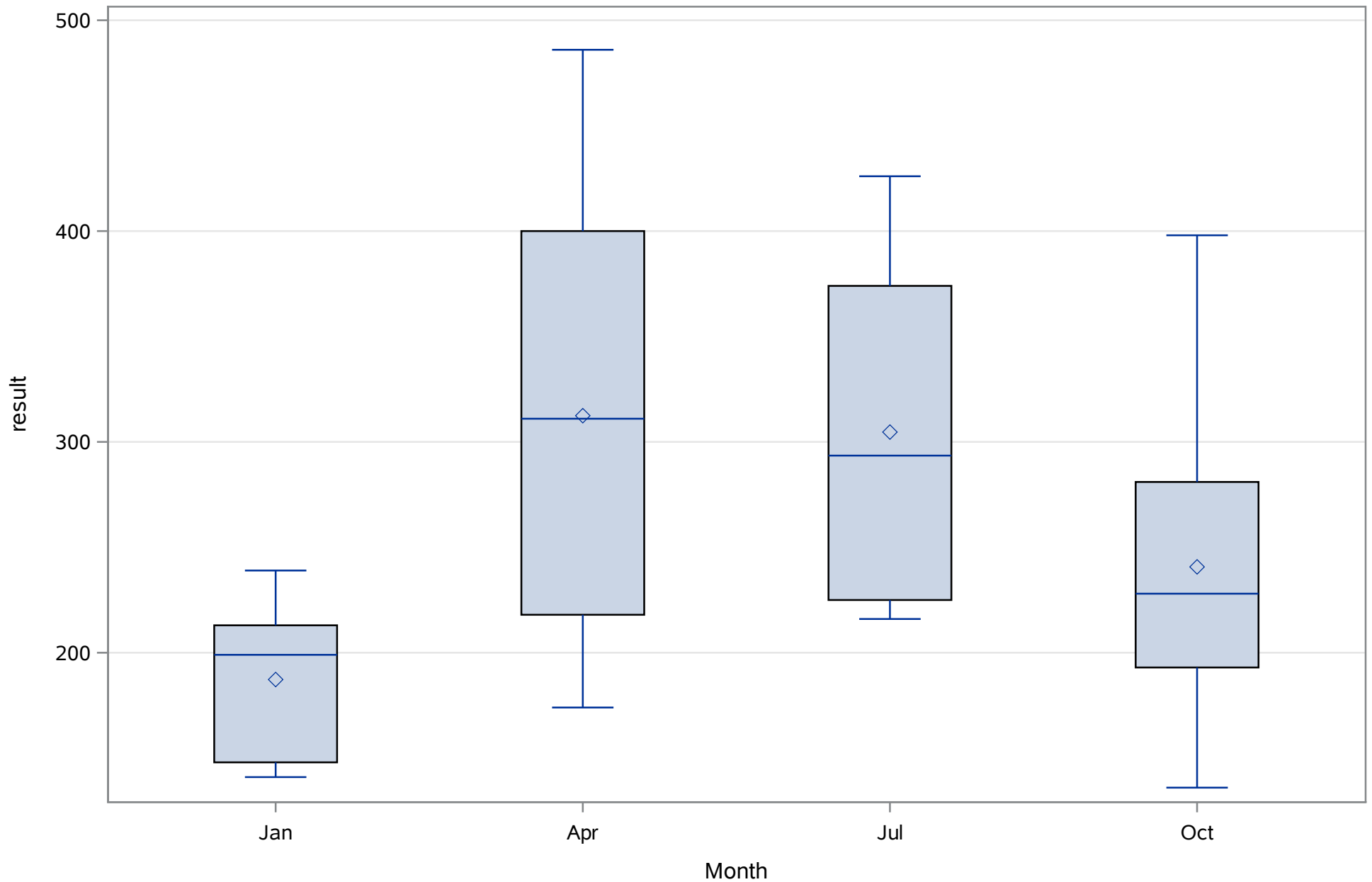
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Dissolved Oxygen (Total) mg/L



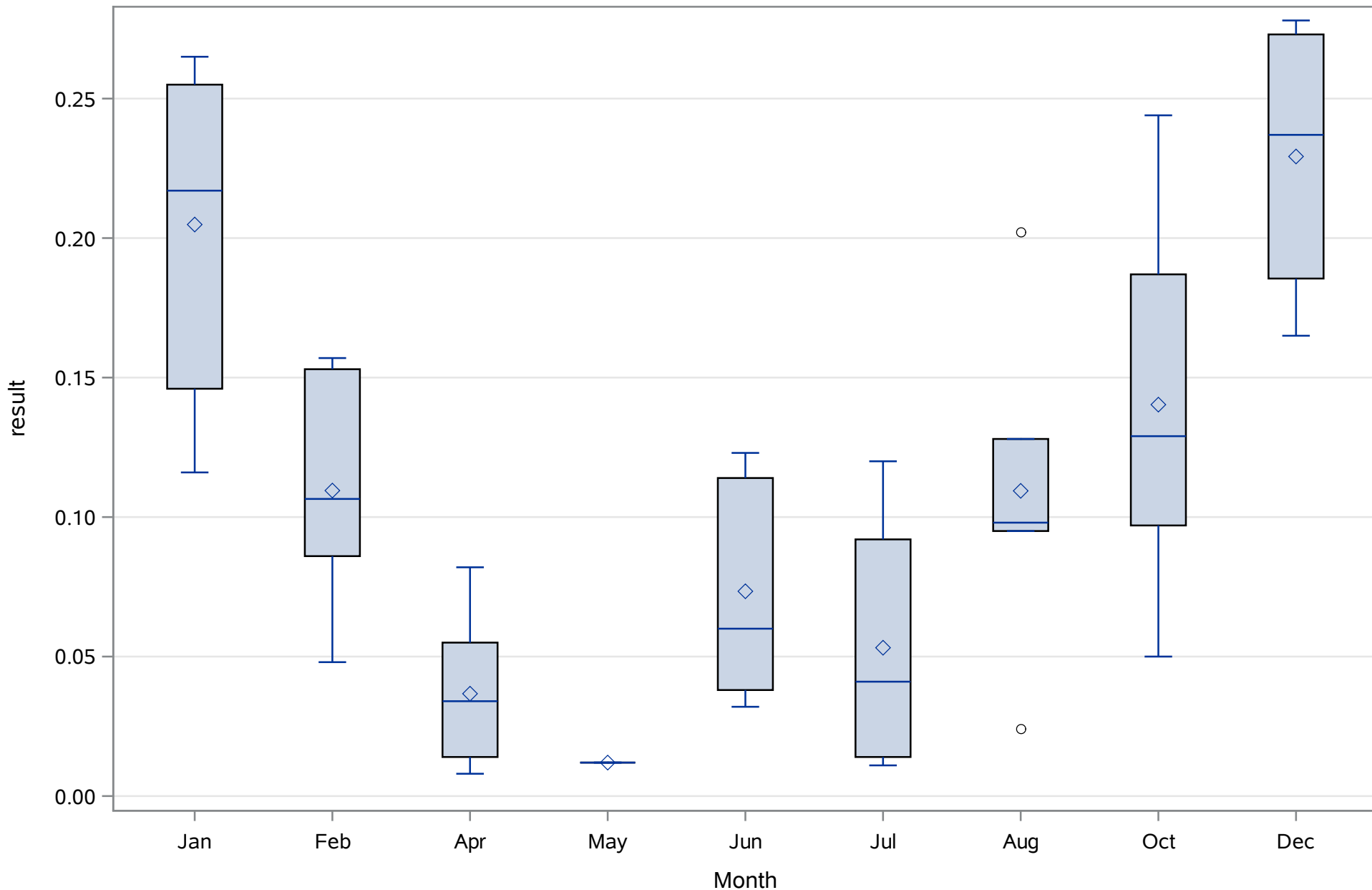
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Iron (Dissolved) ug/L



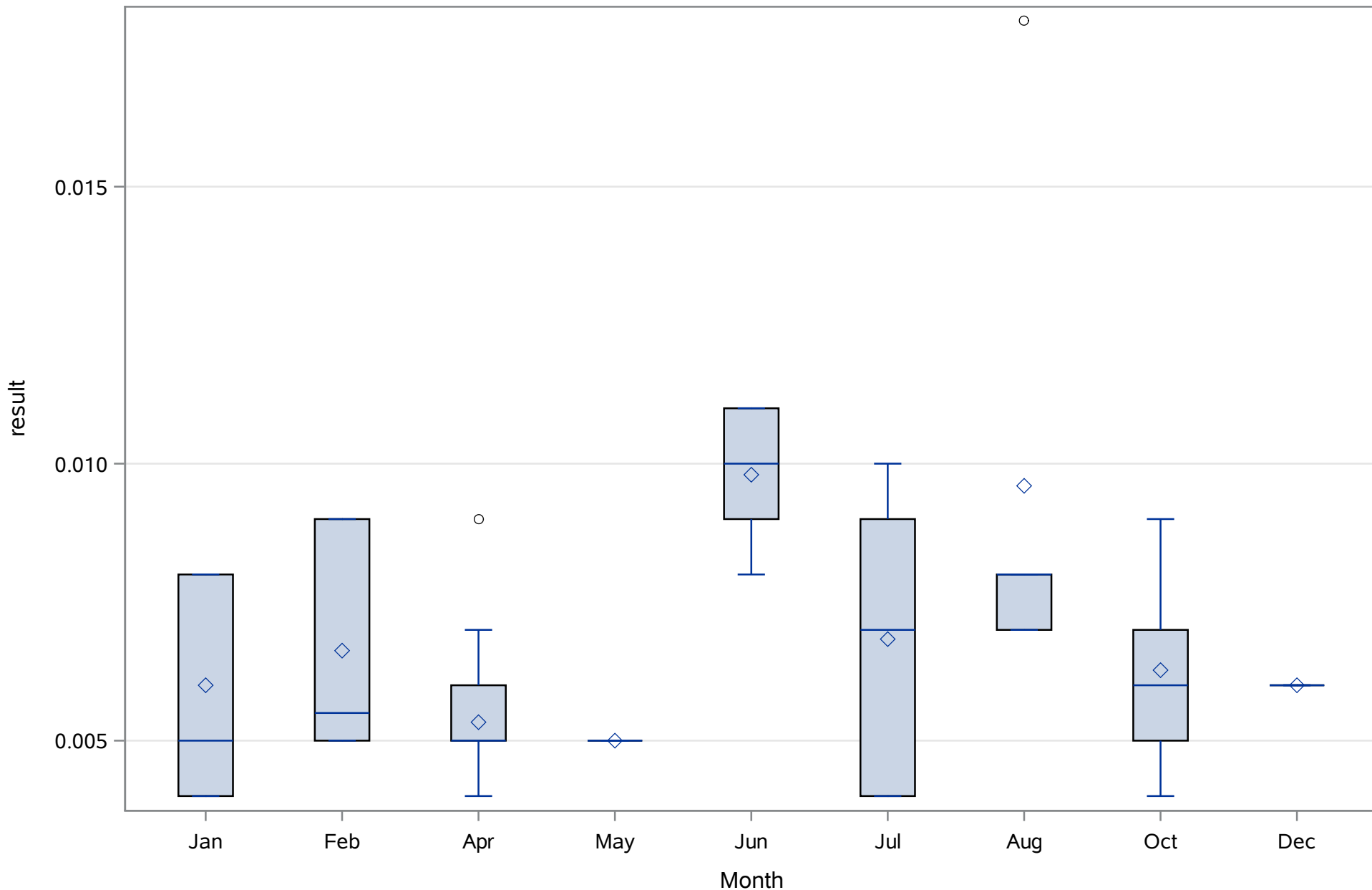
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Magnesium (Dissolved) mg/L



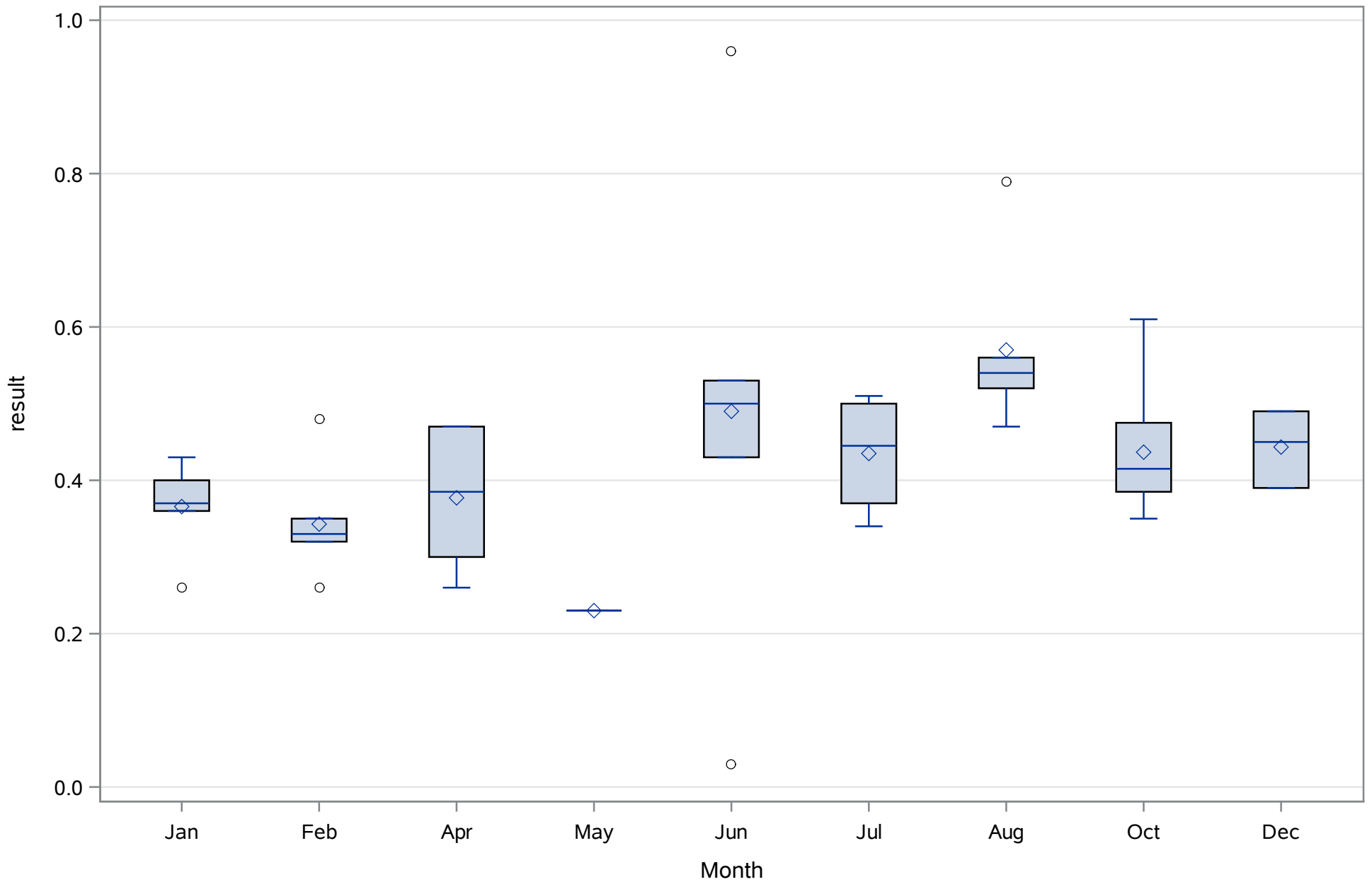
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrate-Nitrite (N) (Total) mg/L



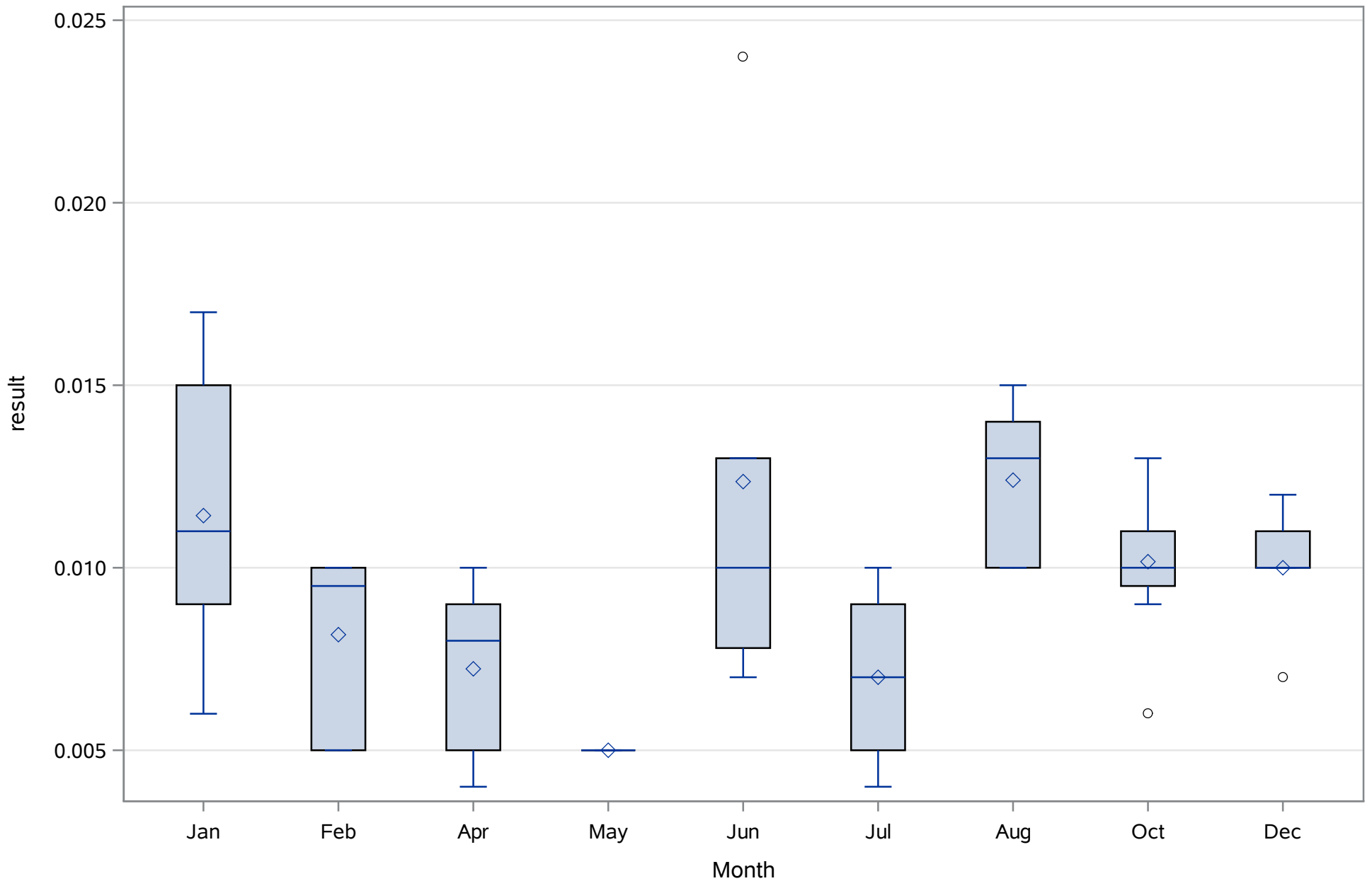
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrite (N) (Total) mg/L



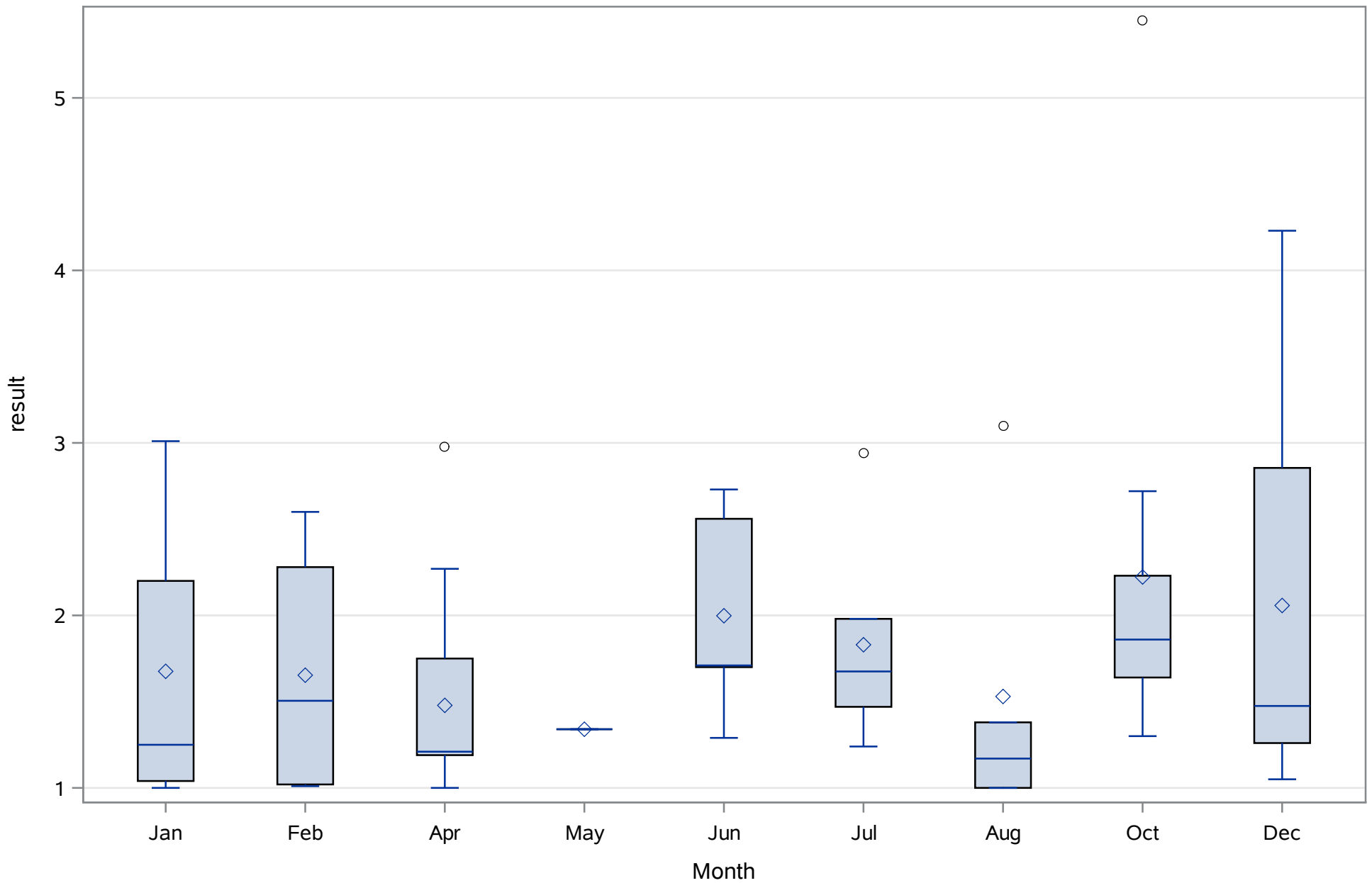
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Nitrogen- Total (Total) mg/L



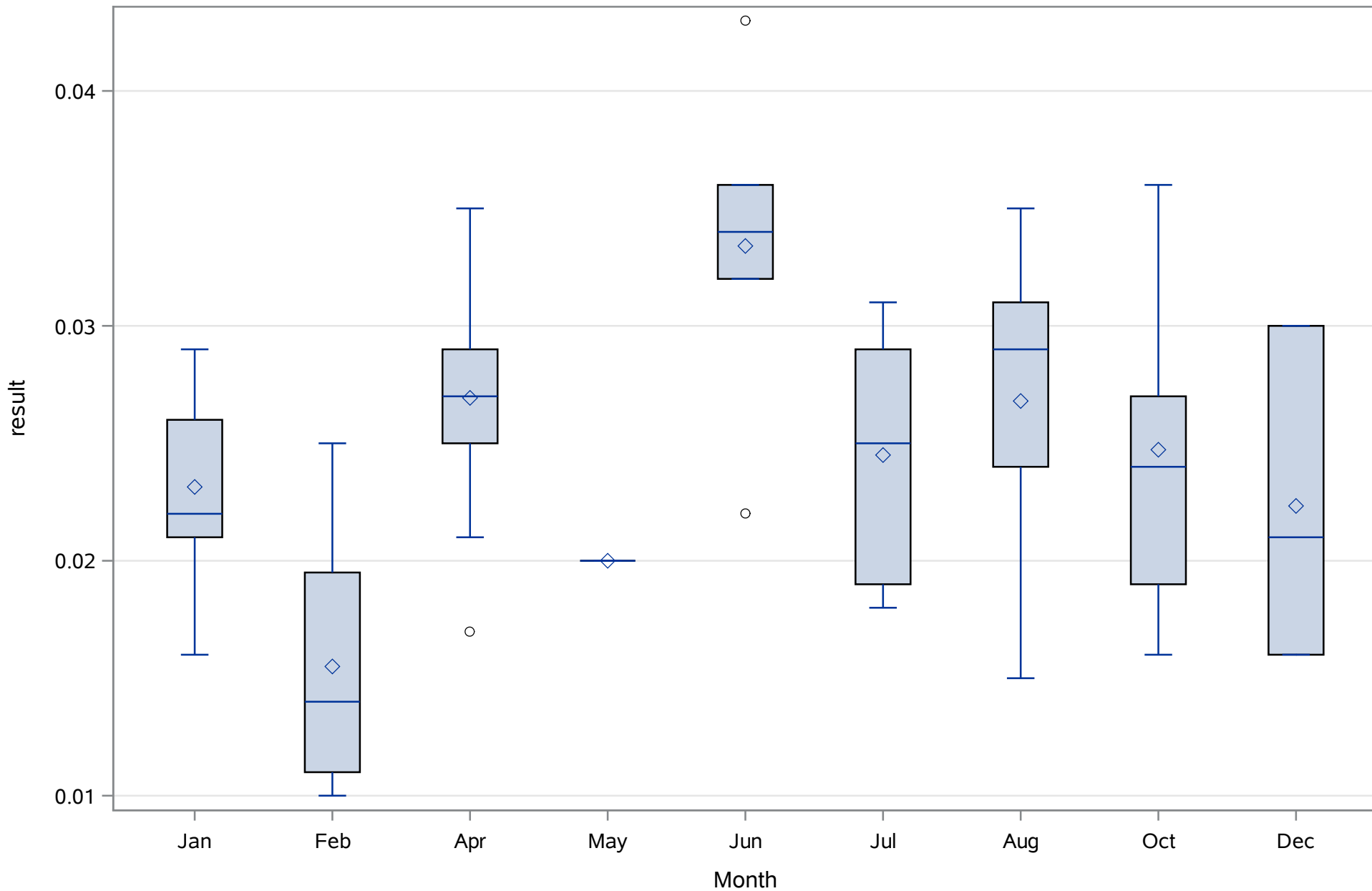
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Orthophosphate (P) (Dissolved) mg/L



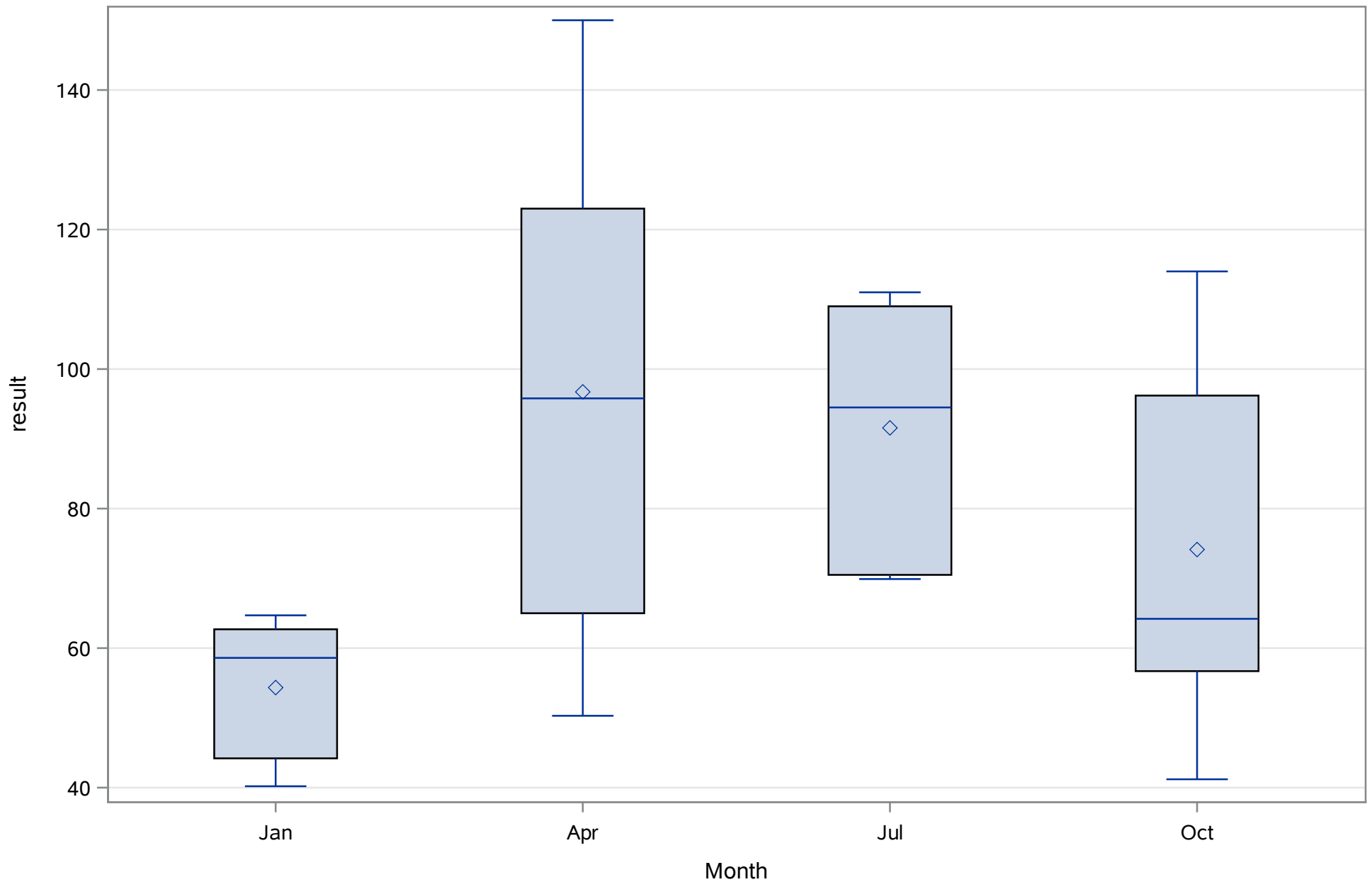
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phaeophytin (Total) ug/L



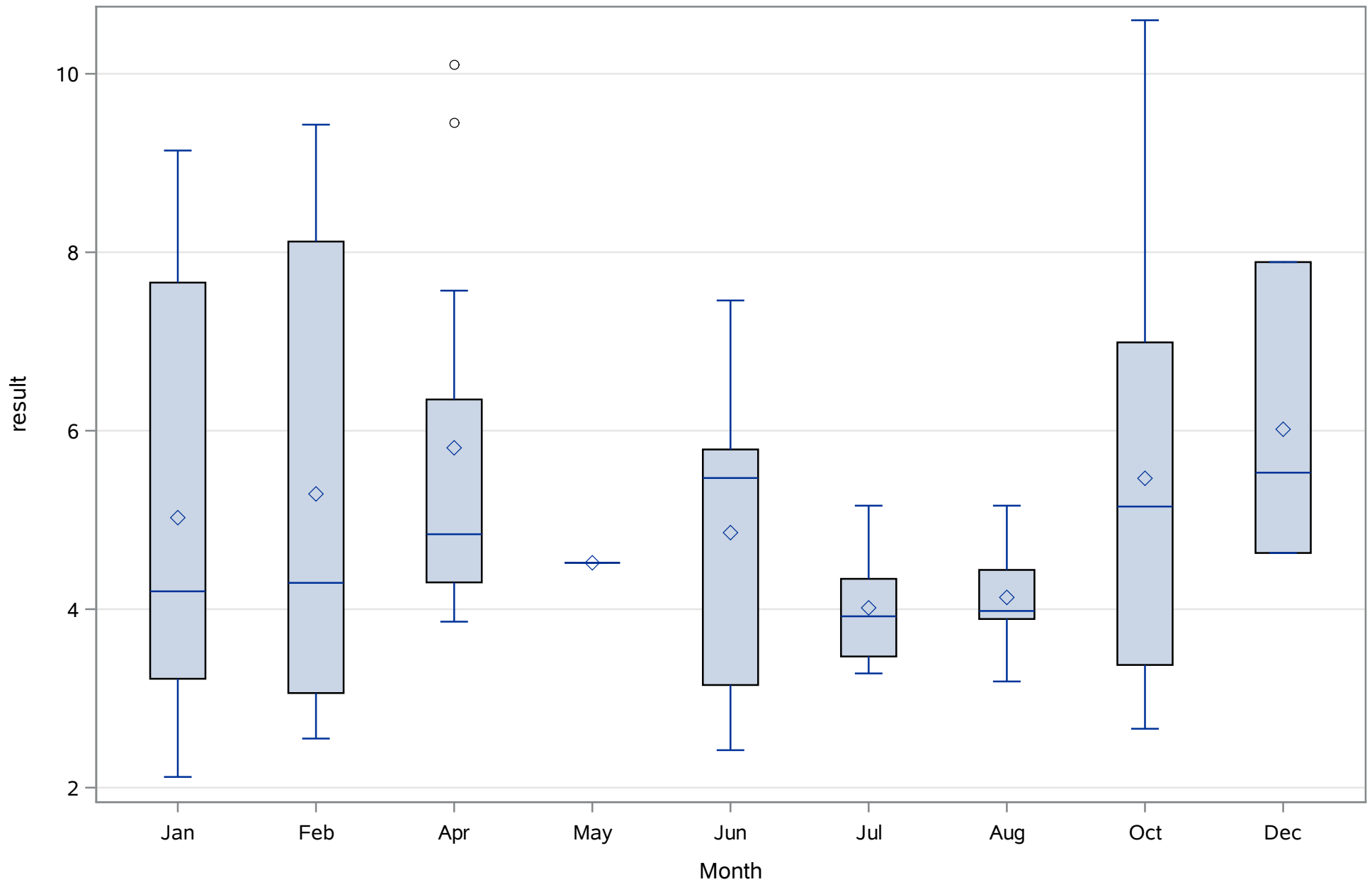
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Phosphorus- Total (Total) mg/L



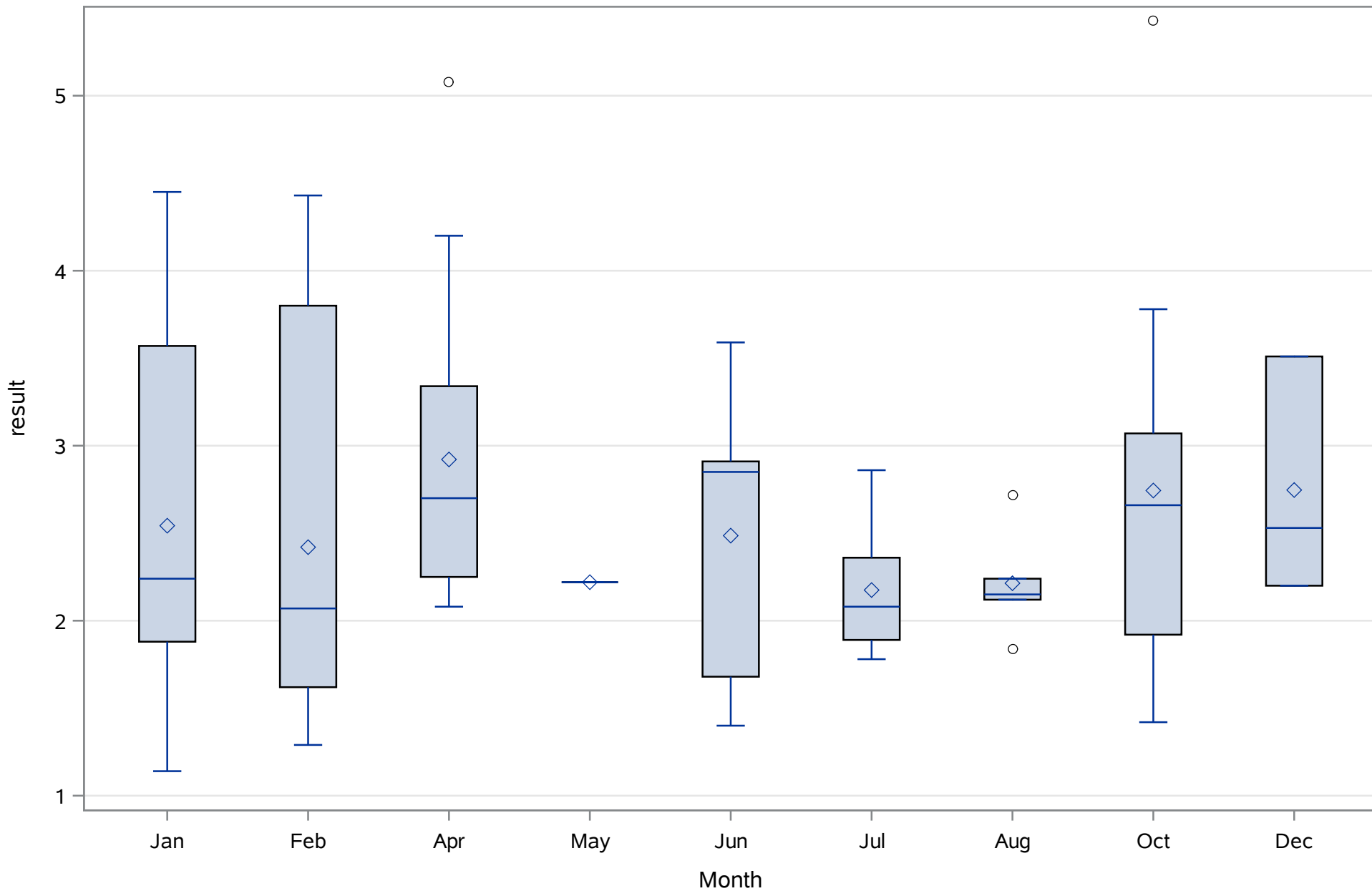
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Potassium (Dissolved) mg/L



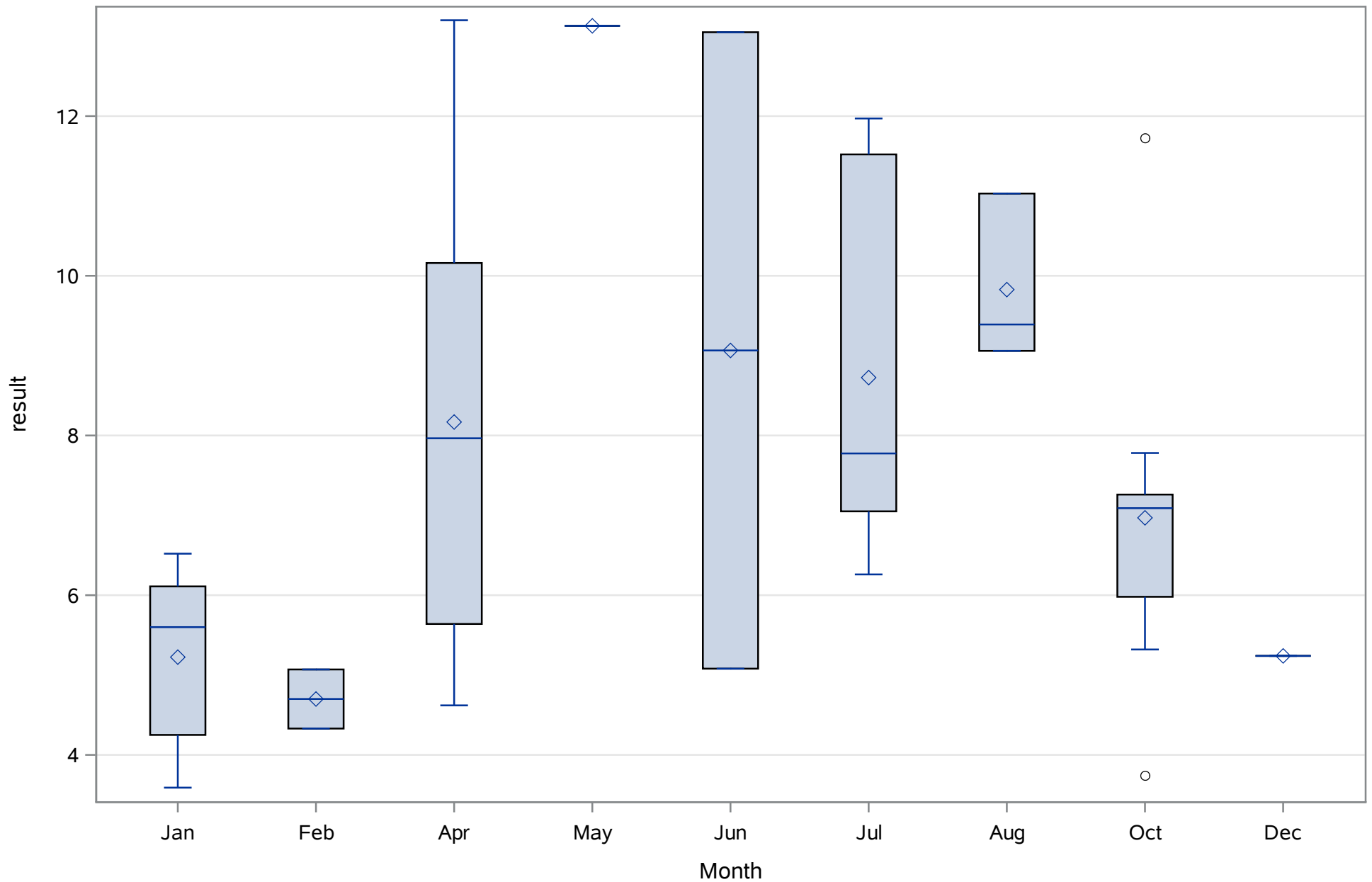
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Nonfilterable (TSS) (Total) mg/L



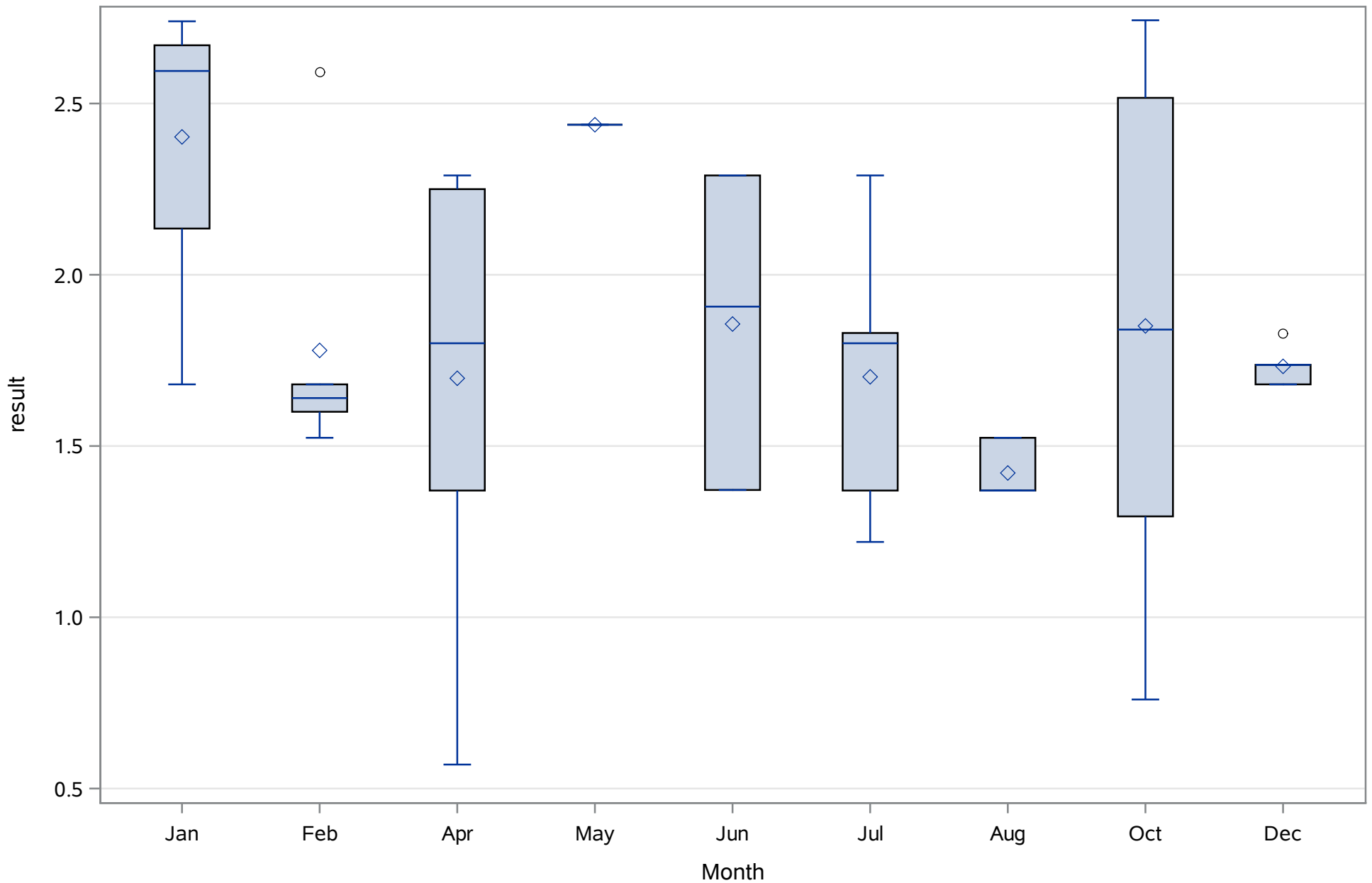
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Residues- Volatile (Total) mg/L



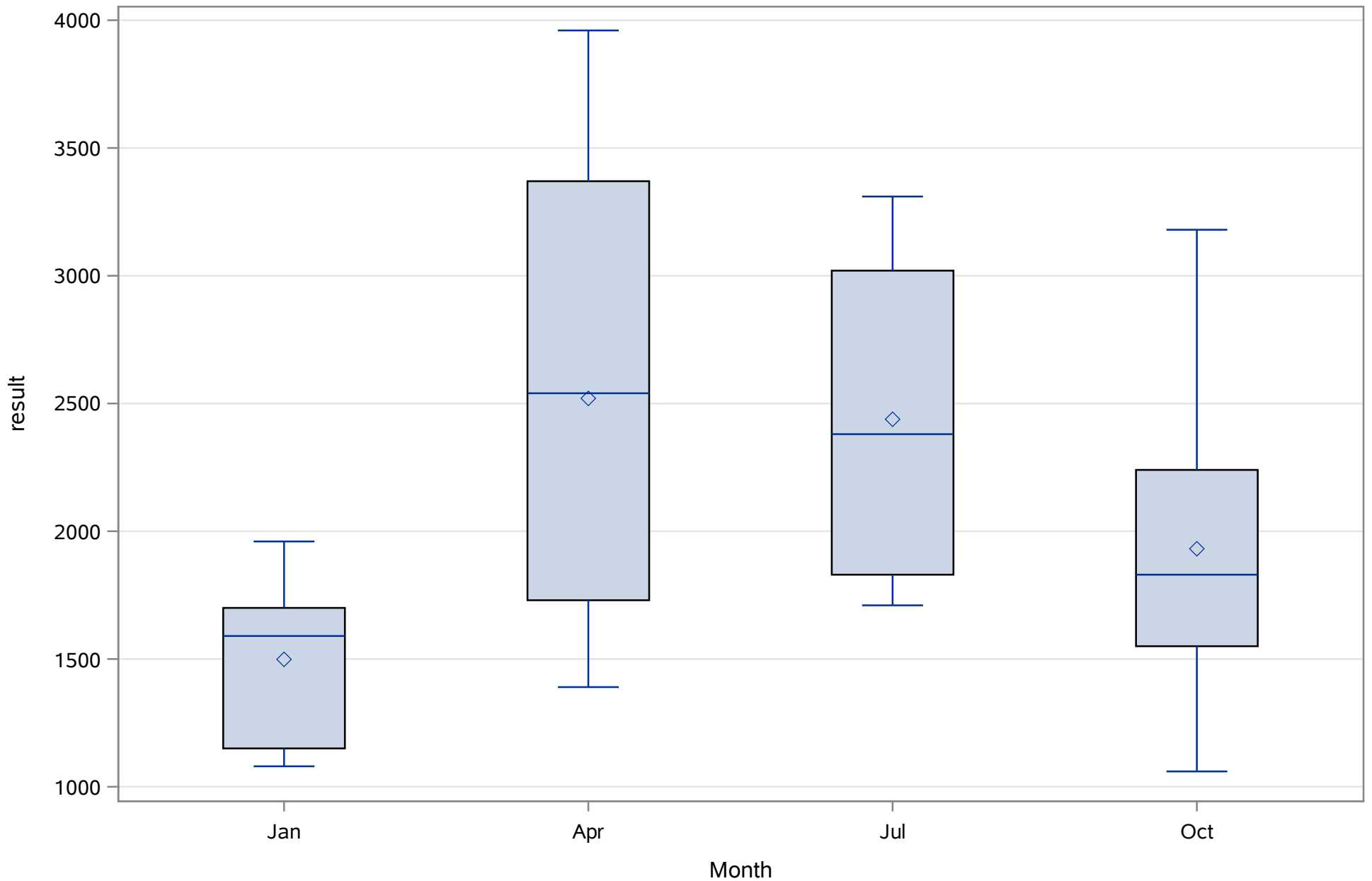
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Salinity (Total) ppth



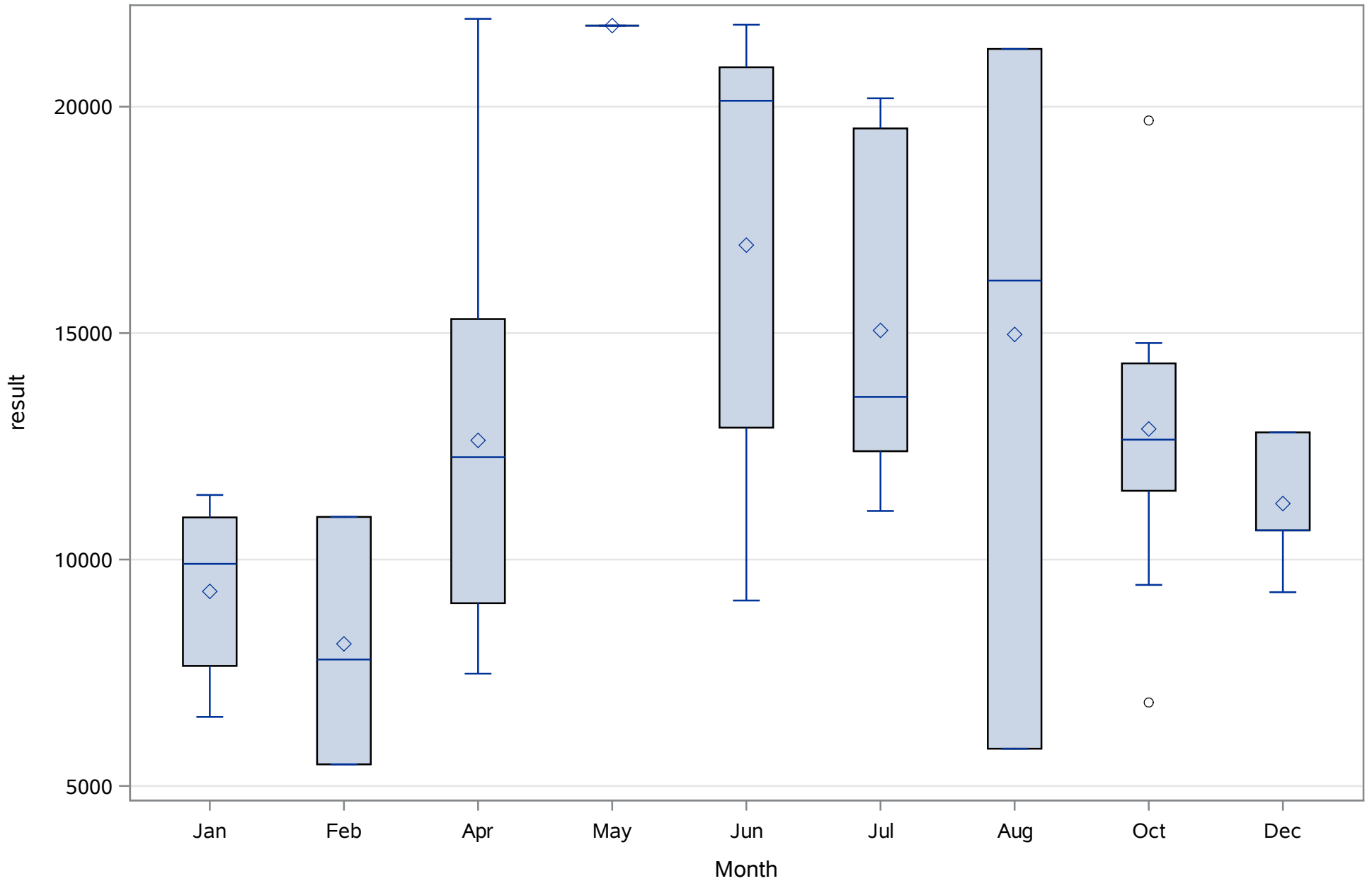
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Secchi-horizontal (Total) Meters



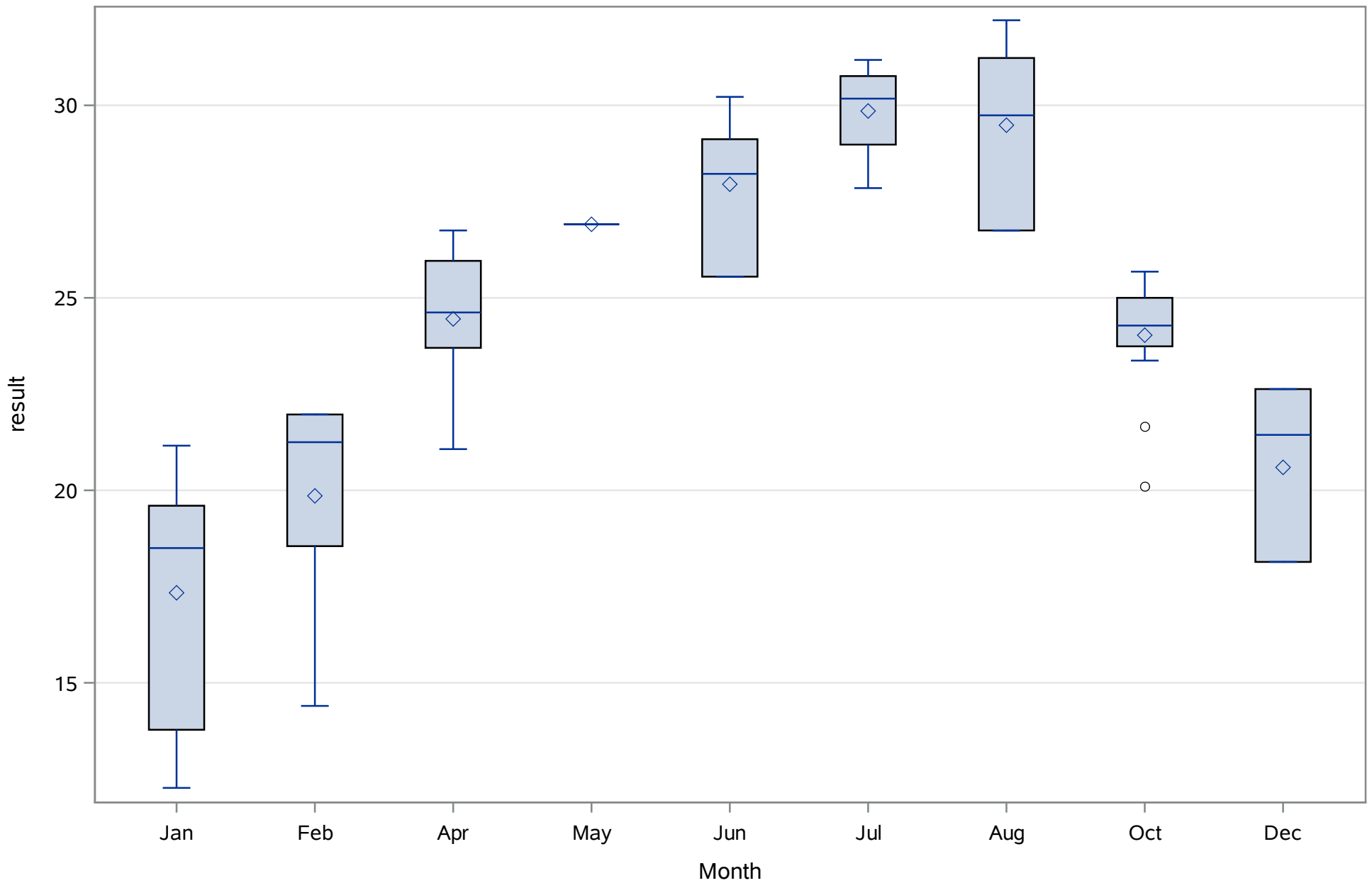
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Sodium (Dissolved) mg/L



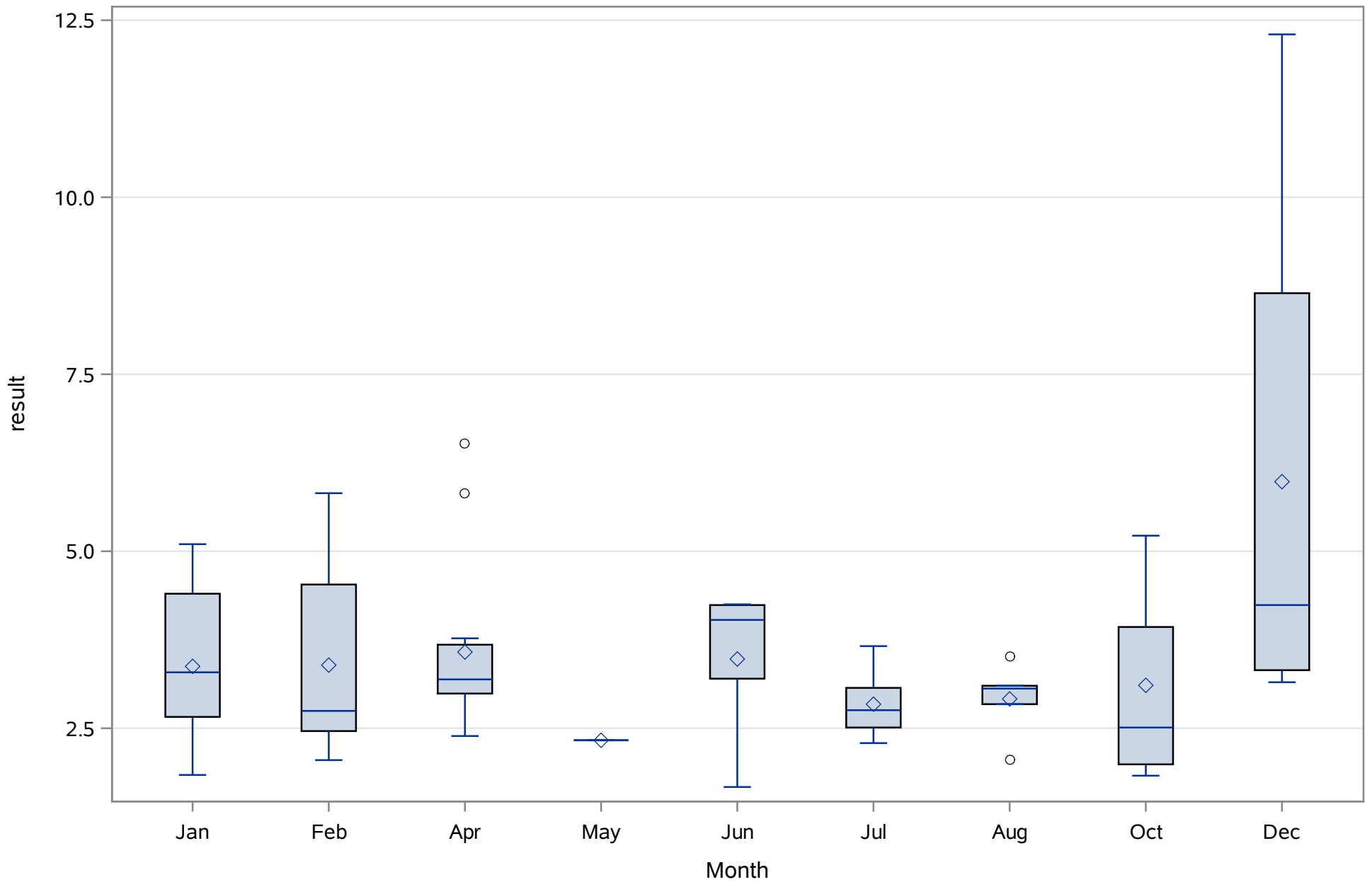
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Specific Conductance (Total) uS/cm



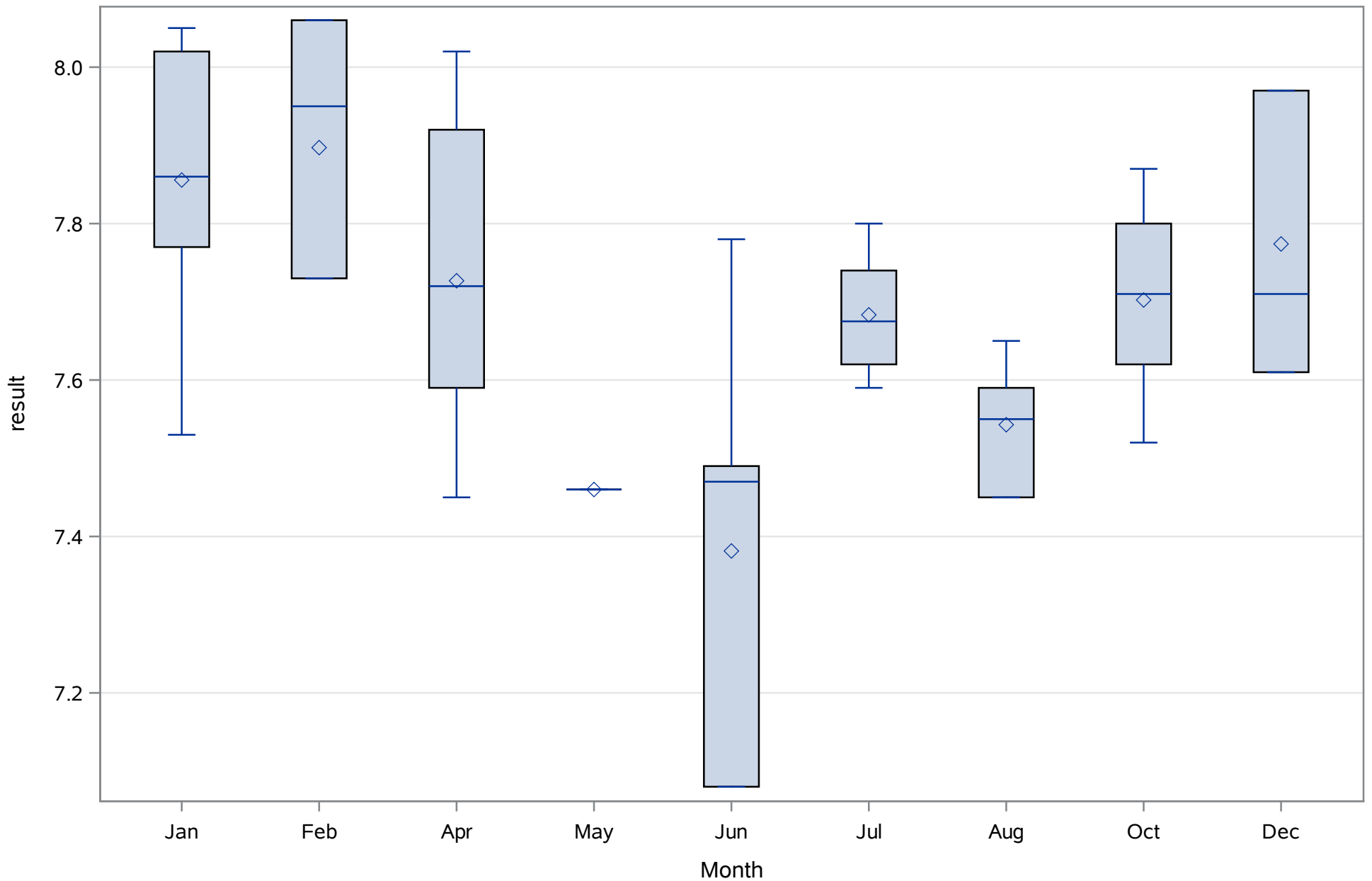
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 3
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	APR2006	APR2017	53	9.4%	0.0%	1.9%
Calcium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Chlorophyll a (Total)	ug/L	OCT2005	APR2017	58	3.4%	0.0%	3.4%
Chlorophyll b (Total)	ug/L	DEC2005	APR2006	2	0.0%	0.0%	0.0%
Chlorophyll c (Total)	ug/L	OCT2005	APR2006	4	0.0%	0.0%	0.0%
Cobalt (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	OCT2006	JUN2009	17	0.0%	0.0%	5.9%
Color (Dissolved)	PCU	FEB2006	APR2017	54	1.9%	0.0%	1.9%
Copper (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Depth (Total)	Meters	AUG2008	APR2017	46	0.0%	0.0%	2.2%
Depth, bottom (Total)	Meters	AUG2007	APR2017	45	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	FEB2006	APR2017	61	1.6%	0.0%	1.6%
Iron (Dissolved)	ug/L	DEC2008	APR2017	37	2.7%	0.0%	2.7%
Magnesium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Molybdenum (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	FEB2006	APR2017	54	3.7%	0.0%	1.9%
Nitrite (N) (Total)	mg/L	FEB2006	APR2017	55	3.6%	0.0%	1.8%
Nitrogen- Total (Total)	mg/L	DEC2005	APR2017	57	1.8%	0.0%	1.8%
Orthophosphate (P) (Dissolved)	mg/L	OCT2005	APR2017	55	1.8%	0.0%	1.8%
Phaeophytin (Total)	ug/L	OCT2005	APR2017	55	1.8%	0.0%	1.8%
Phosphorus- Total (Total)	mg/L	FEB2006	APR2017	54	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT2005	APR2017	56	1.8%	0.0%	1.8%
Residues- Volatile (Total)	mg/L	OCT2005	APR2017	57	3.5%	0.0%	1.8%
Salinity (Total)	ppth	AUG2008	APR2017	46	0.0%	0.0%	0.0%
Secchi-horizontal (Total)	Meters	DEC2006	APR2017	19	0.0%	0.0%	0.0%
Secchi-vertical (Total)	Meters	FEB2006	APR2013	35	2.9%	0.0%	2.9%
Sodium (Dissolved)	mg/L	OCT2010	APR2017	27	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	FEB2006	APR2017	61	9.8%	0.0%	9.8%
Temperature (Total)	Deg. C	FEB2006	APR2017	61	0.0%	0.0%	0.0%
Total depth at monitored location	Meters	FEB2006	JUN2007	9	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Turbidity (Total)	NTU	OCT2005	APR2017	55	0.0%	0.0%	0.0%
Zinc (Dissolved)	ug/L	DEC2008	AUG2010	10	0.0%	0.0%	0.0%
pH (Total)	SU	FEB2006	APR2017	61	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	53	Sum Weights	53
Mean	0.028	Sum Observations	1.484
Std Deviation	0.02277735	Variance	0.00051881
Skewness	2.09350882	Kurtosis	4.34623814
Uncorrected SS	0.06853	Corrected SS	0.026978
Coeff Variation	81.3476801	Std Error Mean	0.00312871

Basic Statistical Measures			
Location		Variability	
Mean	0.028000	Std Deviation	0.02278
Median	0.022000	Variance	0.0005188
Mode	0.010000	Range	0.10600
		Interquartile Range	0.01700

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.949376	Pr > t 	<.0001
Sign	M	26.5	Pr >= M 	<.0001
Signed Rank	S	715.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.113
99%	0.113
95%	0.086
90%	0.058
75% Q3	0.031
50% Median	0.022
25% Q1	0.014
10%	0.010
5%	0.010
1%	0.007
0% Min	0.007

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

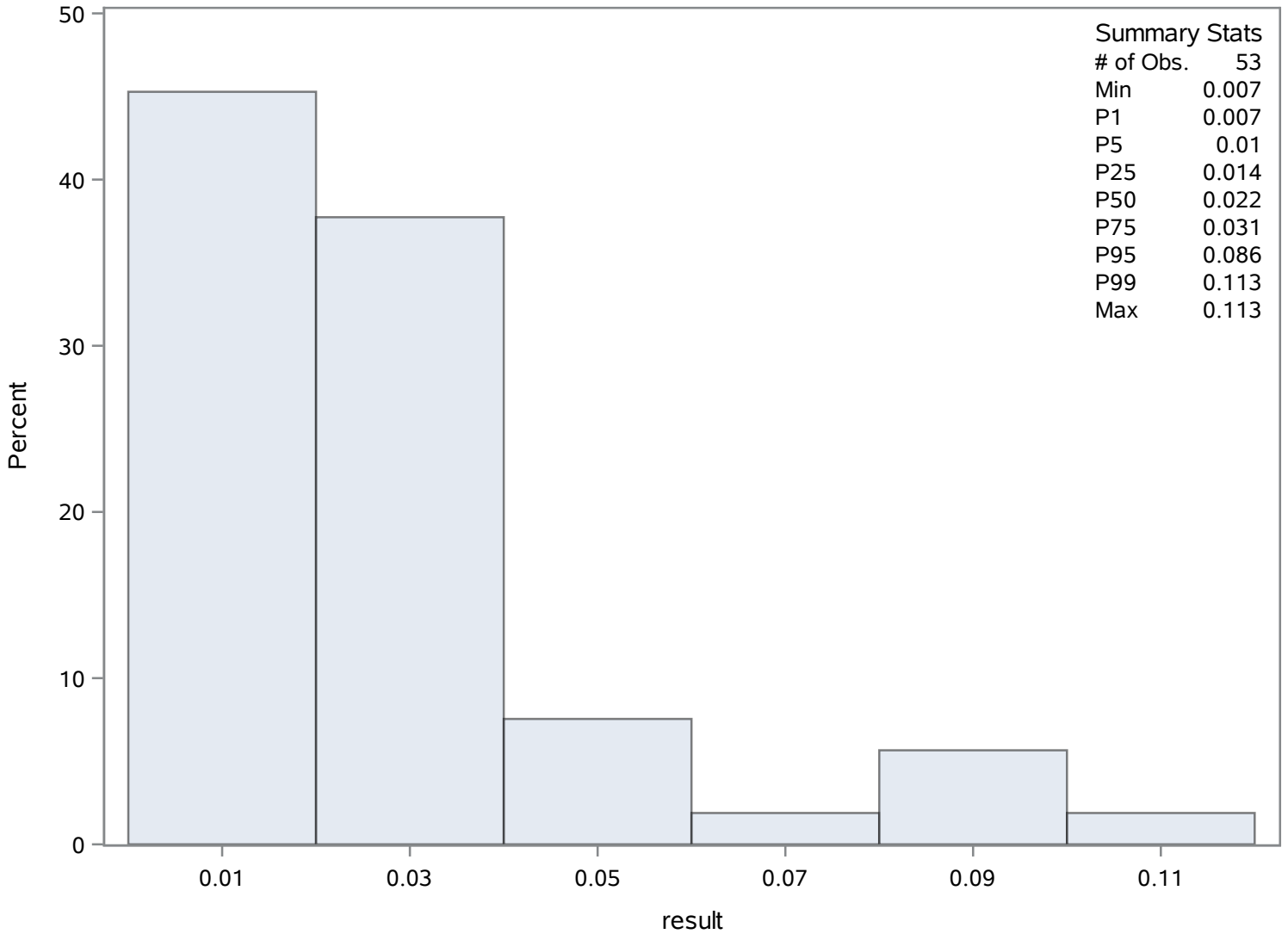
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	6	0.068	8
0.008	23	0.080	16
0.010	49	0.086	14
0.010	48	0.093	2
0.010	46	0.113	15

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 5
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	179.22963	Sum Observations	4839.2
Std Deviation	34.6442449	Variance	1200.2237
Skewness	0.51243885	Kurtosis	-0.0372864
Uncorrected SS	898533.84	Corrected SS	31205.8163
Coeff Variation	19.3295299	Std Error Mean	6.66728804

Basic Statistical Measures			
Location		Variability	
Mean	179.2296	Std Deviation	34.64424
Median	169.0000	Variance	1200
Mode	157.0000	Range	140.00000
		Interquartile Range	47.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.88194	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	267
99%	267
95%	228
90%	225
75% Q3	204
50% Median	169
25% Q1	157
10%	129
5%	128
1%	127
0% Min	127

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

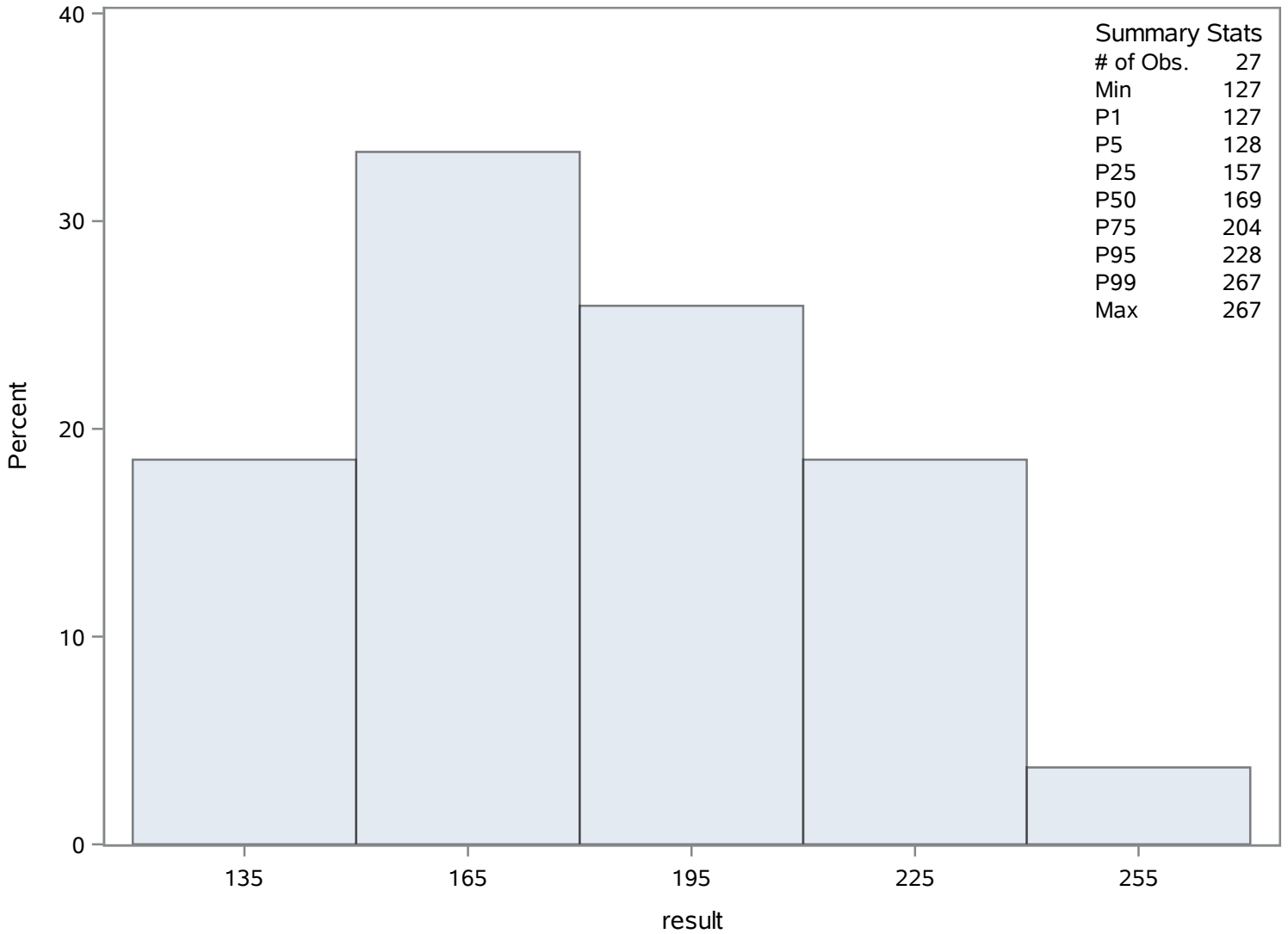
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
127	56	212	57
128	78	219	54
129	55	225	64
146	61	228	73
147	75	267	60

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 5
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	5.30259259	Sum Observations	143.17
Std Deviation	1.55001636	Variance	2.40255071
Skewness	0.09846262	Kurtosis	-0.2100137
Uncorrected SS	821.6385	Corrected SS	62.4663185
Coeff Variation	29.2312926	Std Error Mean	0.29830079

Basic Statistical Measures			
Location		Variability	
Mean	5.302593	Std Deviation	1.55002
Median	5.410000	Variance	2.40255
Mode	.	Range	6.61000
		Interquartile Range	2.43000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.77599	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.86
99%	8.86
95%	7.48
90%	7.24
75% Q3	6.48
50% Median	5.41
25% Q1	4.05
10%	3.11
5%	3.06
1%	2.25
0% Min	2.25

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Carbon- Total Organic (Total) mg/L

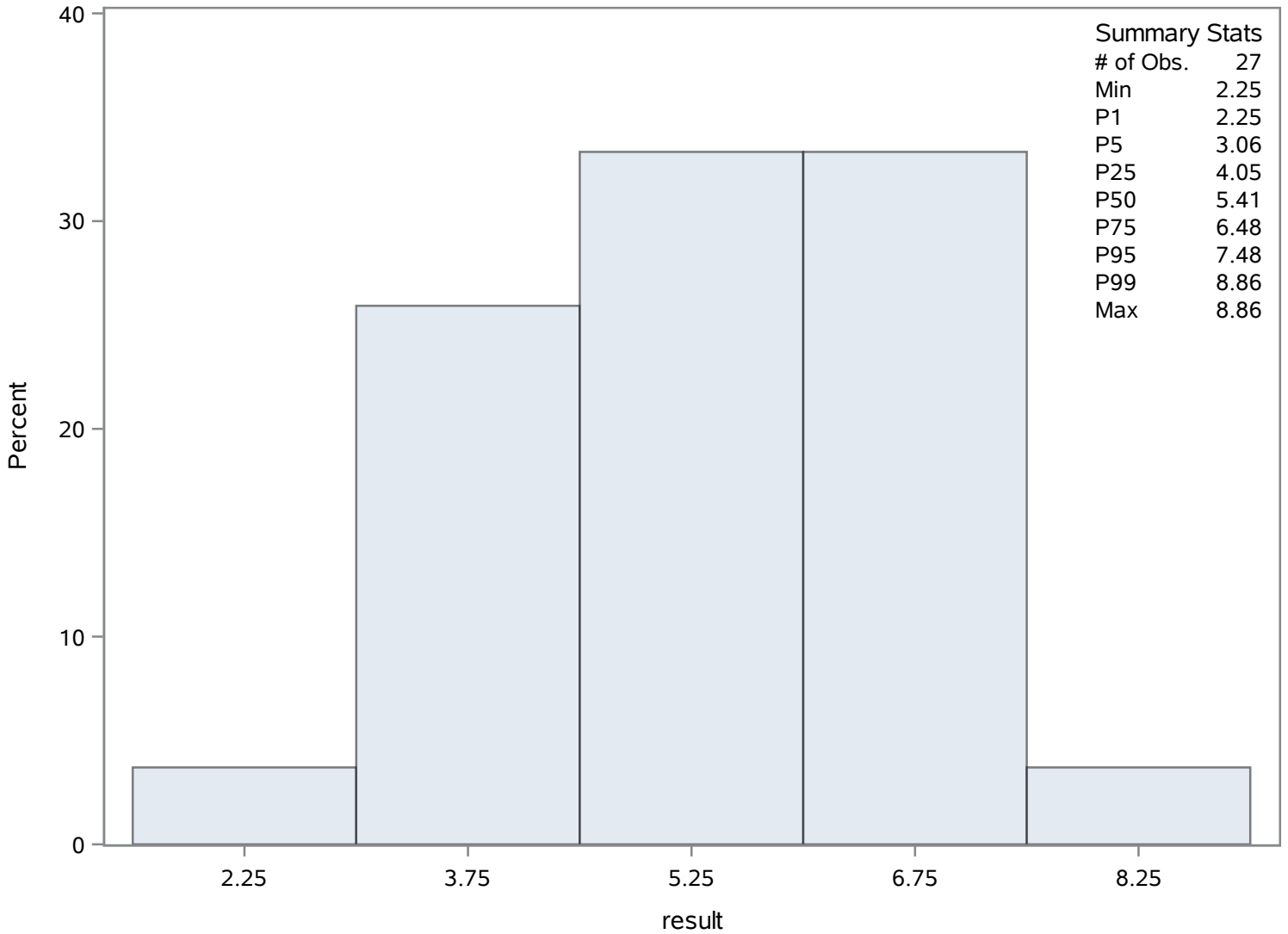
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.25	82	6.89	89
3.06	94	6.90	101
3.11	86	7.24	83
3.36	98	7.48	106
3.86	102	8.86	88

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	58	Sum Weights	58
Mean	2.28706897	Sum Observations	132.65
Std Deviation	1.20655375	Variance	1.45577196
Skewness	1.41597594	Kurtosis	2.12116903
Uncorrected SS	386.3587	Corrected SS	82.9790017
Coeff Variation	52.75546	Std Error Mean	0.15842827

Basic Statistical Measures			
Location		Variability	
Mean	2.287069	Std Deviation	1.20655
Median	2.070000	Variance	1.45577
Mode	1.000000	Range	5.25000
		Interquartile Range	1.29000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.43599	Pr > t 	<.0001
Sign	M	29	Pr >= M 	<.0001
Signed Rank	S	855.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.25
99%	6.25
95%	4.73
90%	4.02
75% Q3	2.70
50% Median	2.07
25% Q1	1.41
10%	1.00
5%	1.00
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

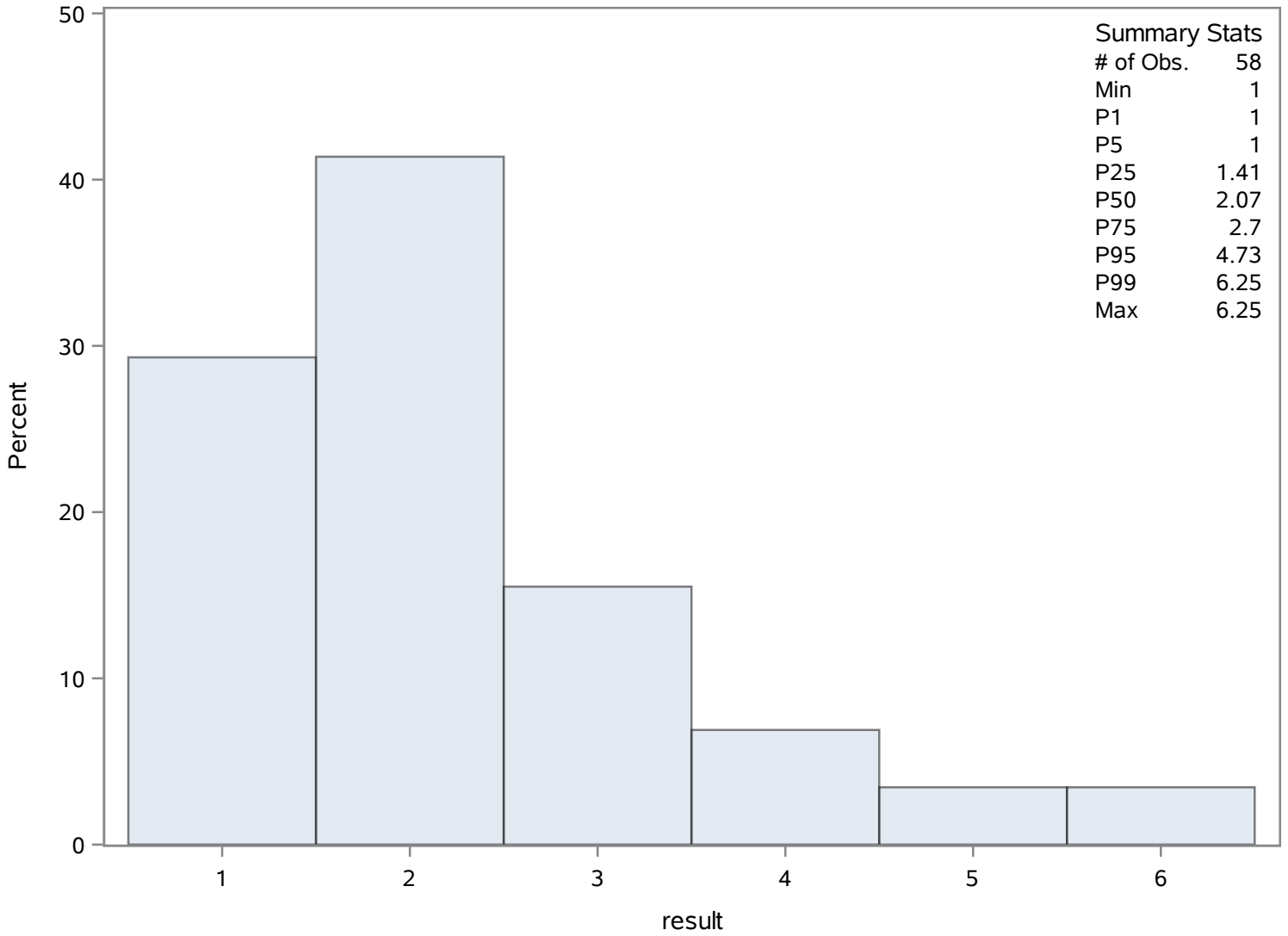
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	164	4.42	151
1	152	4.64	158
1	140	4.73	142
1	135	5.97	138
1	125	6.25	162

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	32.897963	Sum Observations	1776.49
Std Deviation	15.0835646	Variance	227.513922
Skewness	1.83921153	Kurtosis	6.34488211
Uncorrected SS	70501.1401	Corrected SS	12058.2379
Coeff Variation	45.8495398	Std Error Mean	2.05261316

Basic Statistical Measures			
Location		Variability	
Mean	32.89796	Std Deviation	15.08356
Median	31.05000	Variance	227.51392
Mode	40.00000	Range	90.00000
		Interquartile Range	17.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.02736	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	100.00
99%	100.00
95%	60.60
90%	47.60
75% Q3	40.00
50% Median	31.05
25% Q1	22.70
10%	18.30
5%	15.00
1%	10.00
0% Min	10.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Color (Dissolved) PCU

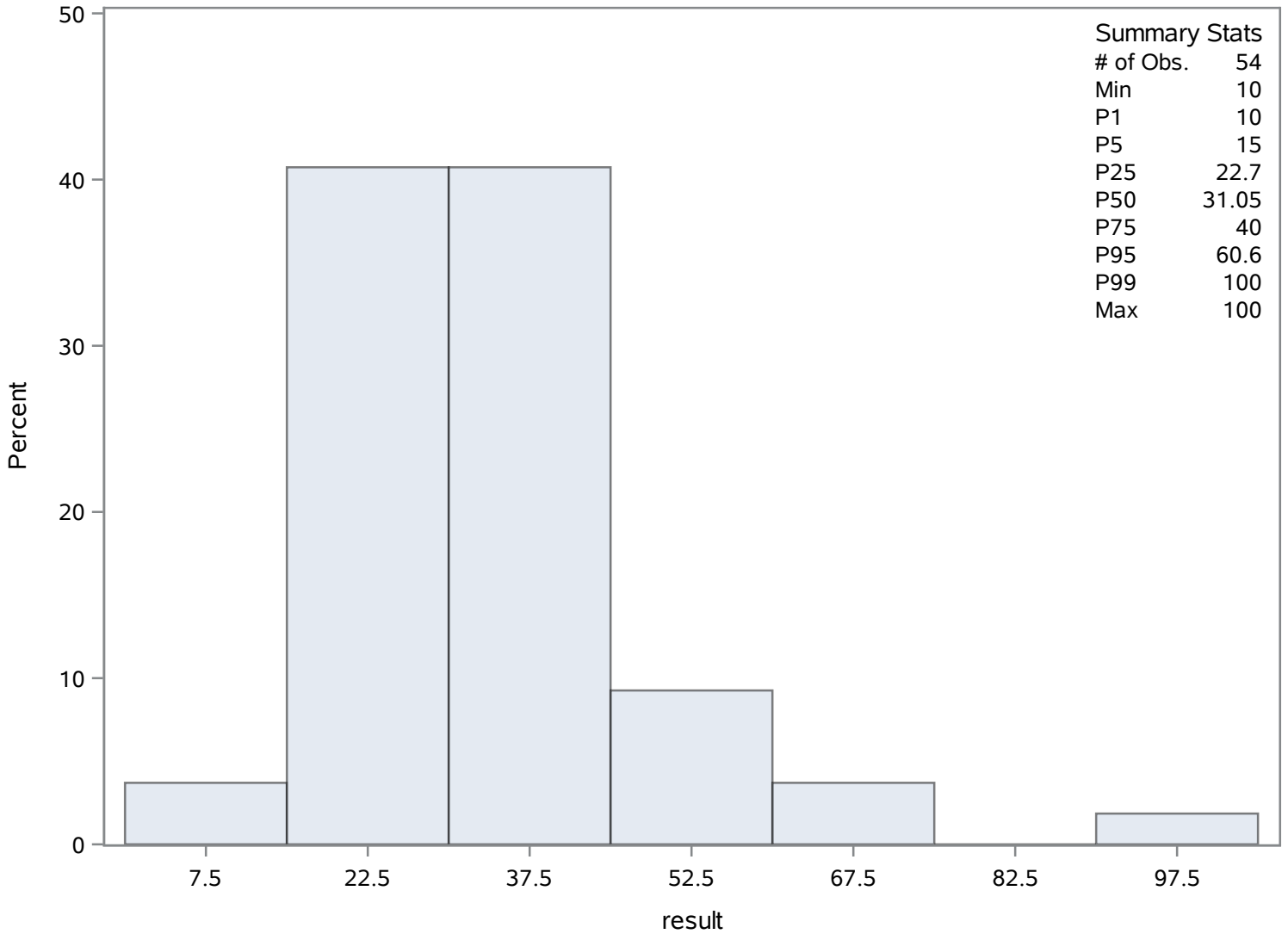
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.0	171	48.10	192
13.1	194	51.00	218
15.0	166	60.60	200
15.8	184	65.49	181
16.0	198	100.00	168

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	0.65608696	Sum Observations	30.18
Std Deviation	0.4724098	Variance	0.22317101
Skewness	3.72225448	Kurtosis	16.1242851
Uncorrected SS	29.8434	Corrected SS	10.0426957
Coeff Variation	72.0041437	Std Error Mean	0.06965302

Basic Statistical Measures			
Location		Variability	
Mean	0.656087	Std Deviation	0.47241
Median	0.500000	Variance	0.22317
Mode	0.500000	Range	2.82000
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.419361	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.10
99%	3.10
95%	1.60
90%	1.20
75% Q3	0.50
50% Median	0.50
25% Q1	0.50
10%	0.50
5%	0.50
1%	0.28
0% Min	0.28

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

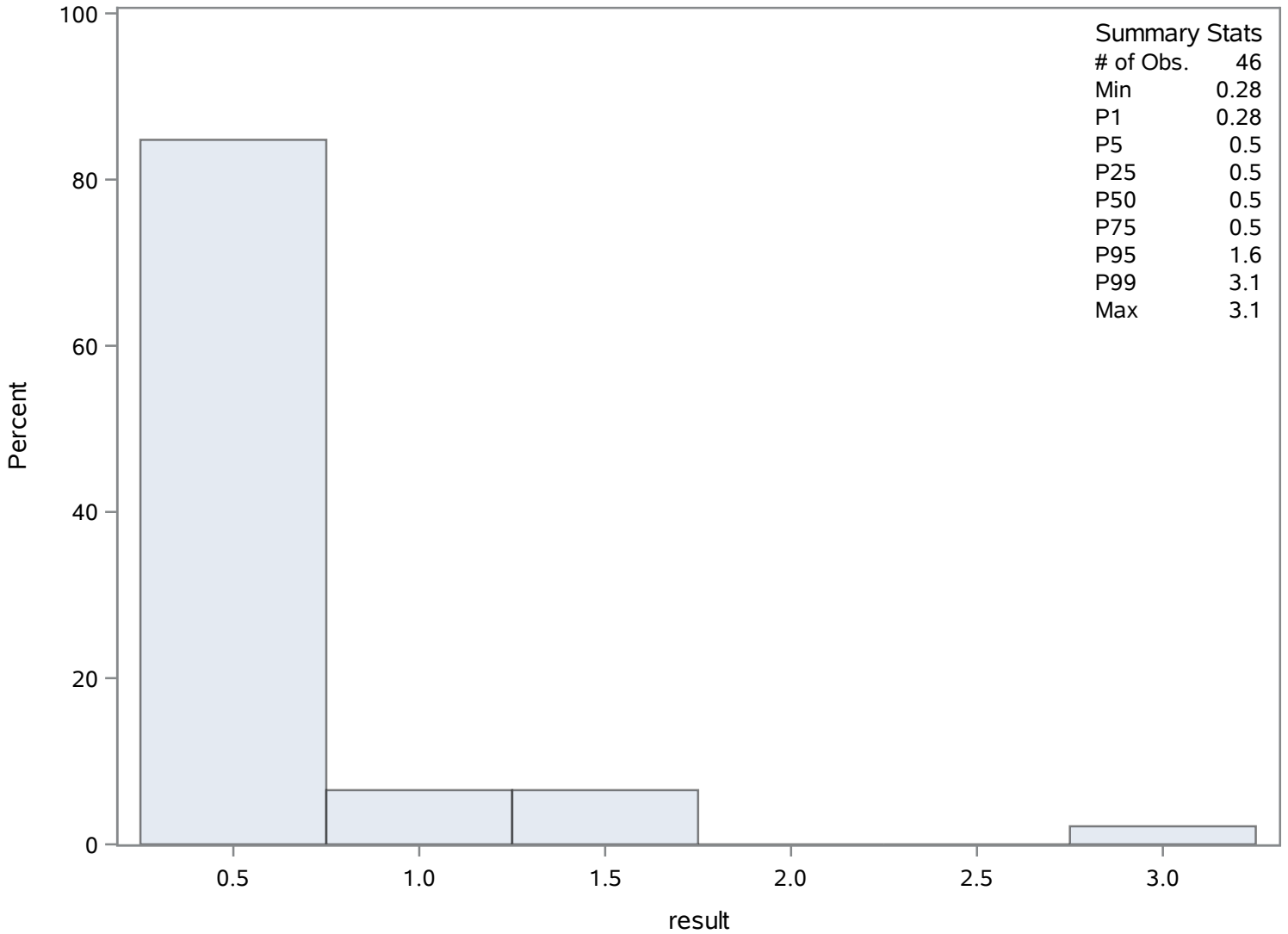
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.28	260	1.20	225
0.45	252	1.40	234
0.50	265	1.60	229
0.50	264	1.65	223
0.50	263	3.10	237

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 5
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	2.55873333	Sum Observations	115.143
Std Deviation	1.03889755	Variance	1.07930811
Skewness	0.15370105	Kurtosis	-0.8221131
Uncorrected SS	342.109789	Corrected SS	47.4895568
Coeff Variation	40.6020249	Std Error Mean	0.1548697

Basic Statistical Measures			
Location		Variability	
Mean	2.558733	Std Deviation	1.03890
Median	2.580000	Variance	1.07931
Mode	1.800000	Range	4.33000
		Interquartile Range	1.58000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.52185	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.90
99%	4.90
95%	4.20
90%	3.90
75% Q3	3.38
50% Median	2.58
25% Q1	1.80
10%	1.22
5%	1.03

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

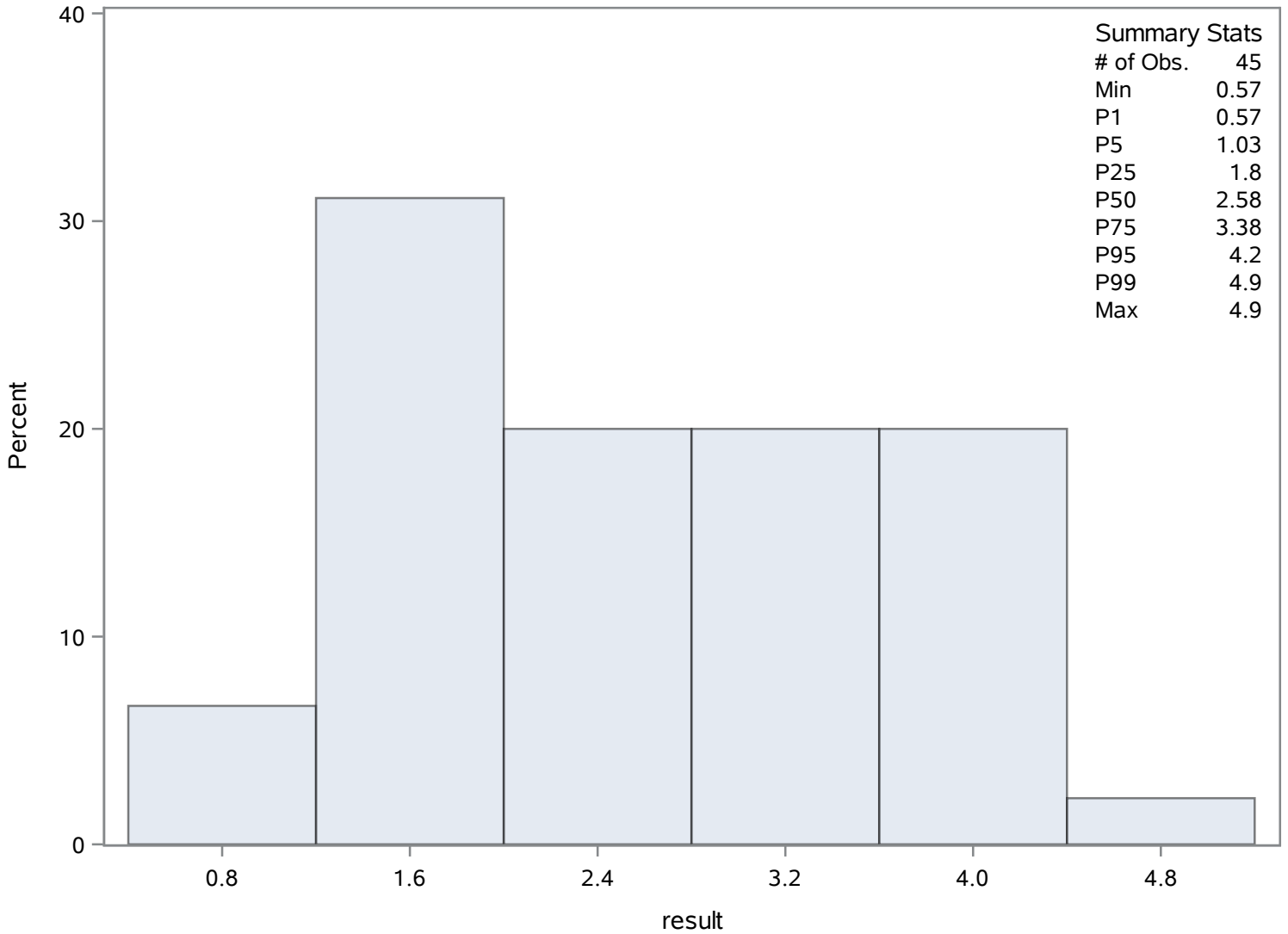
Quantiles (Definition 5)	
Level	Quantile
1%	0.57
0% Min	0.57

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	305	3.9	285
0.90	297	4.0	299
1.03	308	4.2	288
1.20	309	4.2	291
1.22	304	4.9	287

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth, bottom (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	6.64786885	Sum Observations	405.52
Std Deviation	2.29869899	Variance	5.28401705
Skewness	1.45022042	Kurtosis	4.21026963
Uncorrected SS	3012.8848	Corrected SS	317.041023
Coeff Variation	34.5779834	Std Error Mean	0.29431825

Basic Statistical Measures			
Location		Variability	
Mean	6.647869	Std Deviation	2.29870
Median	6.310000	Variance	5.28402
Mode	5.720000	Range	13.71000
		Interquartile Range	2.52000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	22.58735	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16.28
99%	16.28
95%	10.81
90%	9.19
75% Q3	7.67
50% Median	6.31
25% Q1	5.15
10%	4.38
5%	3.86

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

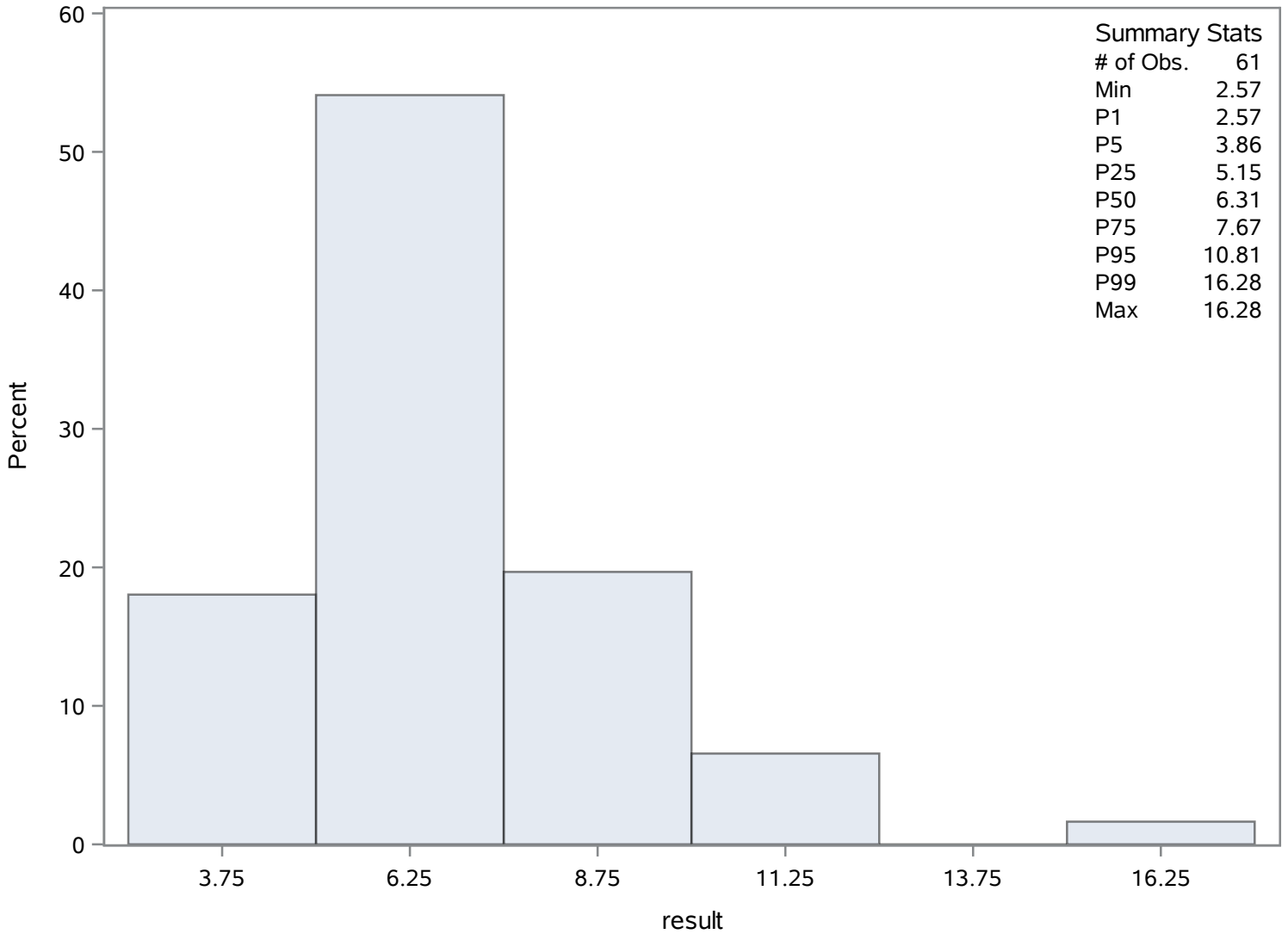
Quantiles (Definition 5)	
Level	Quantile
1%	2.57
0% Min	2.57

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.57	325	10.68	340
2.72	313	10.81	339
3.33	314	10.98	358
3.86	343	11.51	351
4.06	368	16.28	357

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	24.7327027	Sum Observations	915.11
Std Deviation	21.6147593	Variance	467.19782
Skewness	3.01331881	Kurtosis	12.336674
Uncorrected SS	39452.2651	Corrected SS	16819.1215
Coeff Variation	87.3934385	Std Error Mean	3.55344454

Basic Statistical Measures			
Location		Variability	
Mean	24.73270	Std Deviation	21.61476
Median	17.80000	Variance	467.19782
Mode	11.20000	Range	119.49000
		Interquartile Range	14.90000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.960205	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	125.00
99%	125.00
95%	56.00
90%	49.00
75% Q3	27.40
50% Median	17.80
25% Q1	12.50
10%	7.55
5%	6.05
1%	5.51
0% Min	5.51

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Iron (Dissolved) ug/L

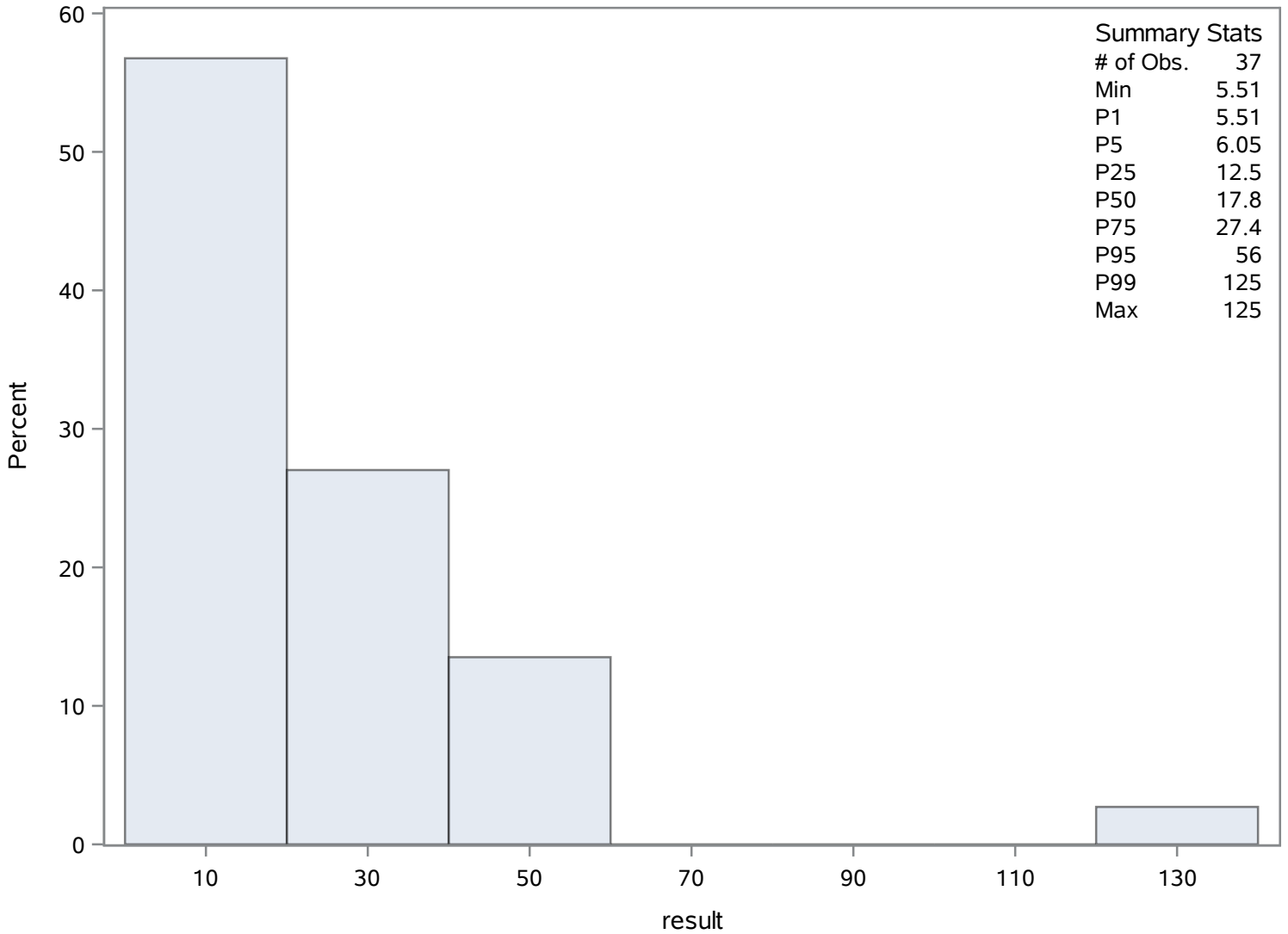
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.51	383	41.7	402
6.05	373	49.0	390
7.50	385	49.7	407
7.55	386	56.0	400
10.20	394	125.0	391

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	401.296296	Sum Observations	10835
Std Deviation	111.710069	Variance	12479.1396
Skewness	0.52375769	Kurtosis	-0.5272665
Uncorrected SS	4672503	Corrected SS	324457.63
Coeff Variation	27.8373039	Std Error Mean	21.4986129

Basic Statistical Measures			
Location		Variability	
Mean	401.2963	Std Deviation	111.71007
Median	388.0000	Variance	12479
Mode	.	Range	428.00000
		Interquartile Range	178.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.66615	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	652
99%	652
95%	591
90%	561
75% Q3	488
50% Median	388
25% Q1	310
10%	263
5%	260
1%	224
0% Min	224

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

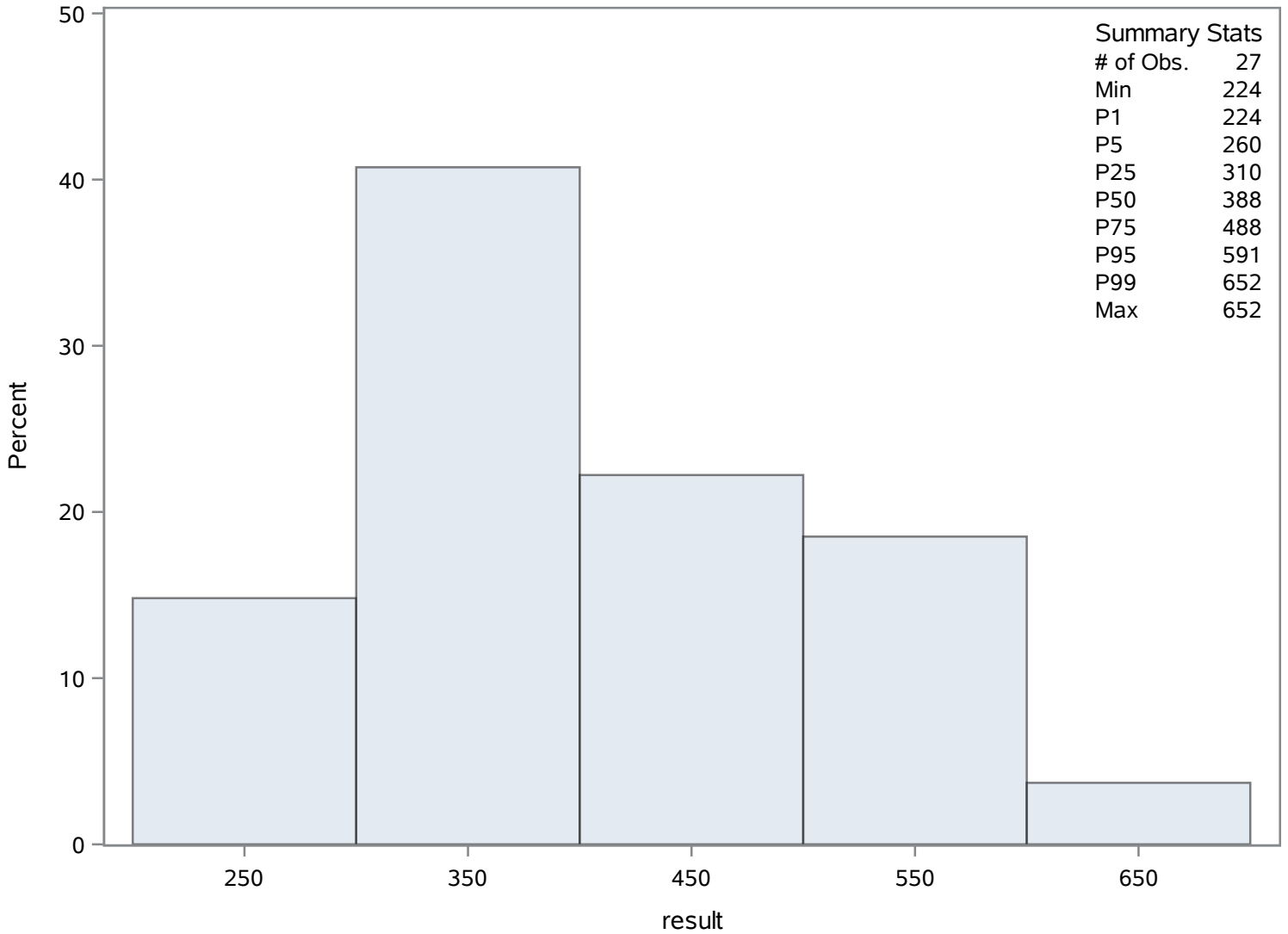
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
224	410	522	431
260	411	557	419
263	433	561	409
292	423	591	428
300	422	652	415

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 5
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	0.04587037	Sum Observations	2.477
Std Deviation	0.03840796	Variance	0.00147517
Skewness	1.41179912	Kurtosis	2.20677852
Uncorrected SS	0.191805	Corrected SS	0.07818409
Coeff Variation	83.7315284	Std Error Mean	0.00522666

Basic Statistical Measures			
Location		Variability	
Mean	0.045870	Std Deviation	0.03841
Median	0.035000	Variance	0.00148
Mode	0.014000	Range	0.17700
		Interquartile Range	0.04800

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.776227	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.181
99%	0.181
95%	0.117
90%	0.101
75% Q3	0.064
50% Median	0.035
25% Q1	0.016
10%	0.010
5%	0.005
1%	0.004
0% Min	0.004

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrate-Nitrite (N) (Total) mg/L

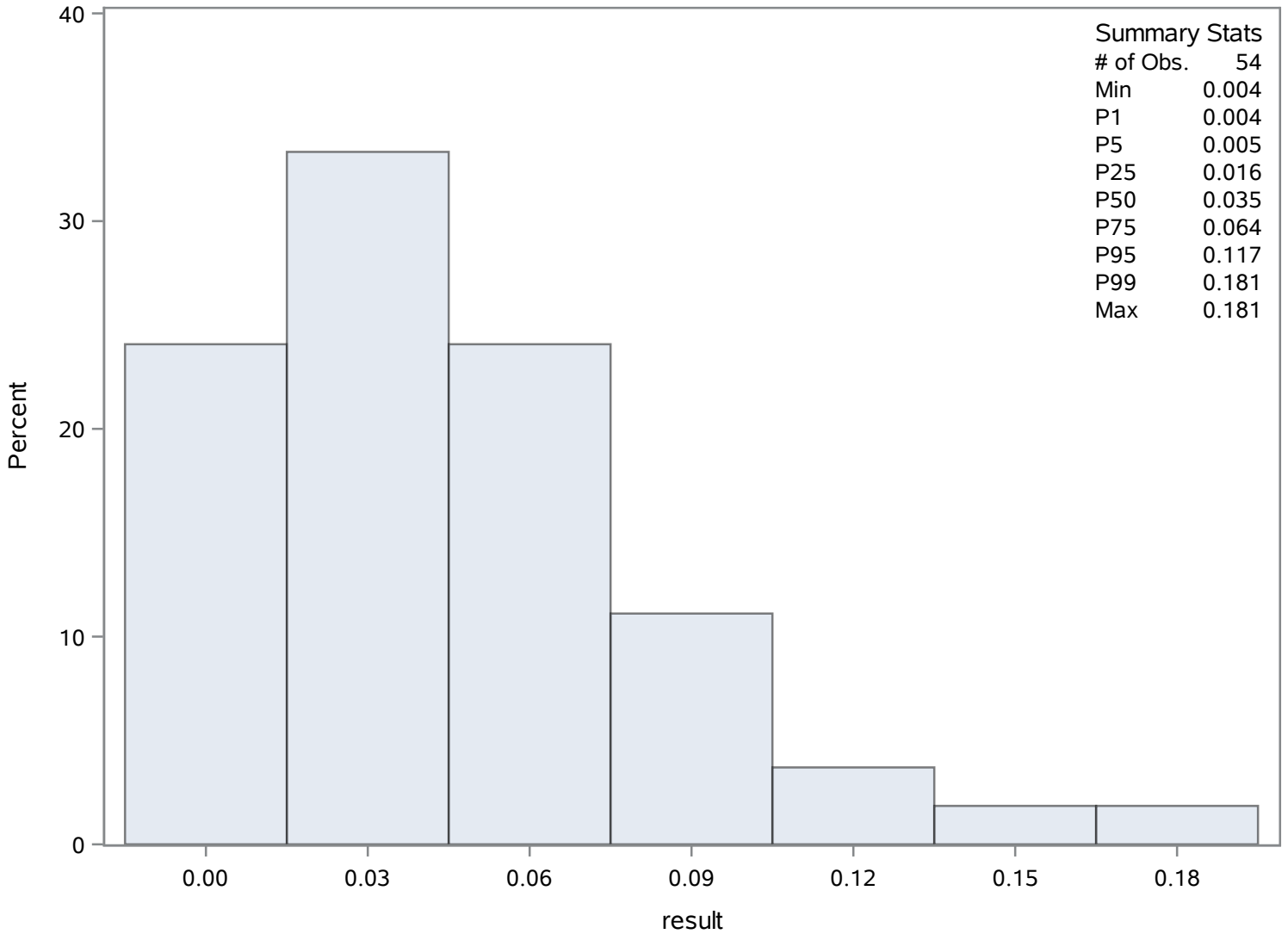
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	482	0.102	476
0.005	473	0.105	484
0.005	455	0.117	453
0.006	437	0.151	458
0.008	478	0.181	464

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	0.00607273	Sum Observations	0.334
Std Deviation	0.00228404	Variance	5.21684E-6
Skewness	2.97484682	Kurtosis	13.1512663
Uncorrected SS	0.00231	Corrected SS	0.00028171
Coeff Variation	37.6114238	Std Error Mean	0.00030798

Basic Statistical Measures			
Location		Variability	
Mean	0.006073	Std Deviation	0.00228
Median	0.005000	Variance	5.21684E-6
Mode	0.005000	Range	0.01400
		Interquartile Range	0.00200

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.71794	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.018
99%	0.018
95%	0.010
90%	0.008
75% Q3	0.007
50% Median	0.005
25% Q1	0.005
10%	0.004
5%	0.004
1%	0.004
0% Min	0.004

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrite (N) (Total) mg/L

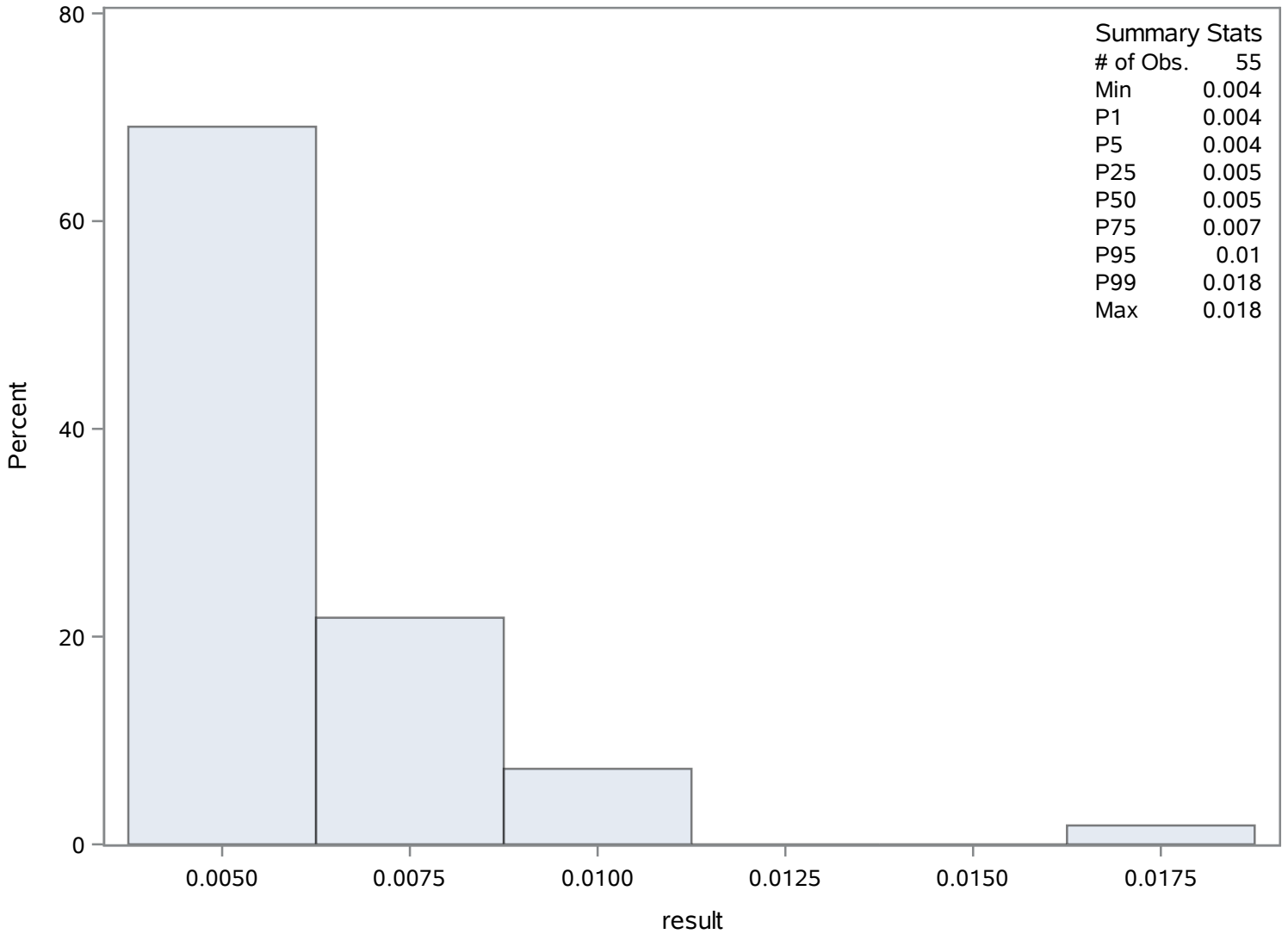
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	540	0.009	511
0.004	539	0.009	516
0.004	537	0.010	505
0.004	536	0.011	521
0.004	535	0.018	506

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	57	Sum Weights	57
Mean	0.38505614	Sum Observations	21.9482
Std Deviation	0.13598359	Variance	0.01849154
Skewness	0.98655903	Kurtosis	4.3782681
Uncorrected SS	9.48681524	Corrected SS	1.03552606
Coeff Variation	35.3152634	Std Error Mean	0.01801147

Basic Statistical Measures			
Location		Variability	
Mean	0.385056	Std Deviation	0.13598
Median	0.360000	Variance	0.01849
Mode	0.350000	Range	0.85180
		Interquartile Range	0.12000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	21.37839	Pr > t 	<.0001
Sign	M	28.5	Pr >= M 	<.0001
Signed Rank	S	826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.9300
99%	0.9300
95%	0.6000
90%	0.5200
75% Q3	0.4400
50% Median	0.3600
25% Q1	0.3200
10%	0.2600
5%	0.1000
1%	0.0782
0% Min	0.0782

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrogen- Total (Total) mg/L

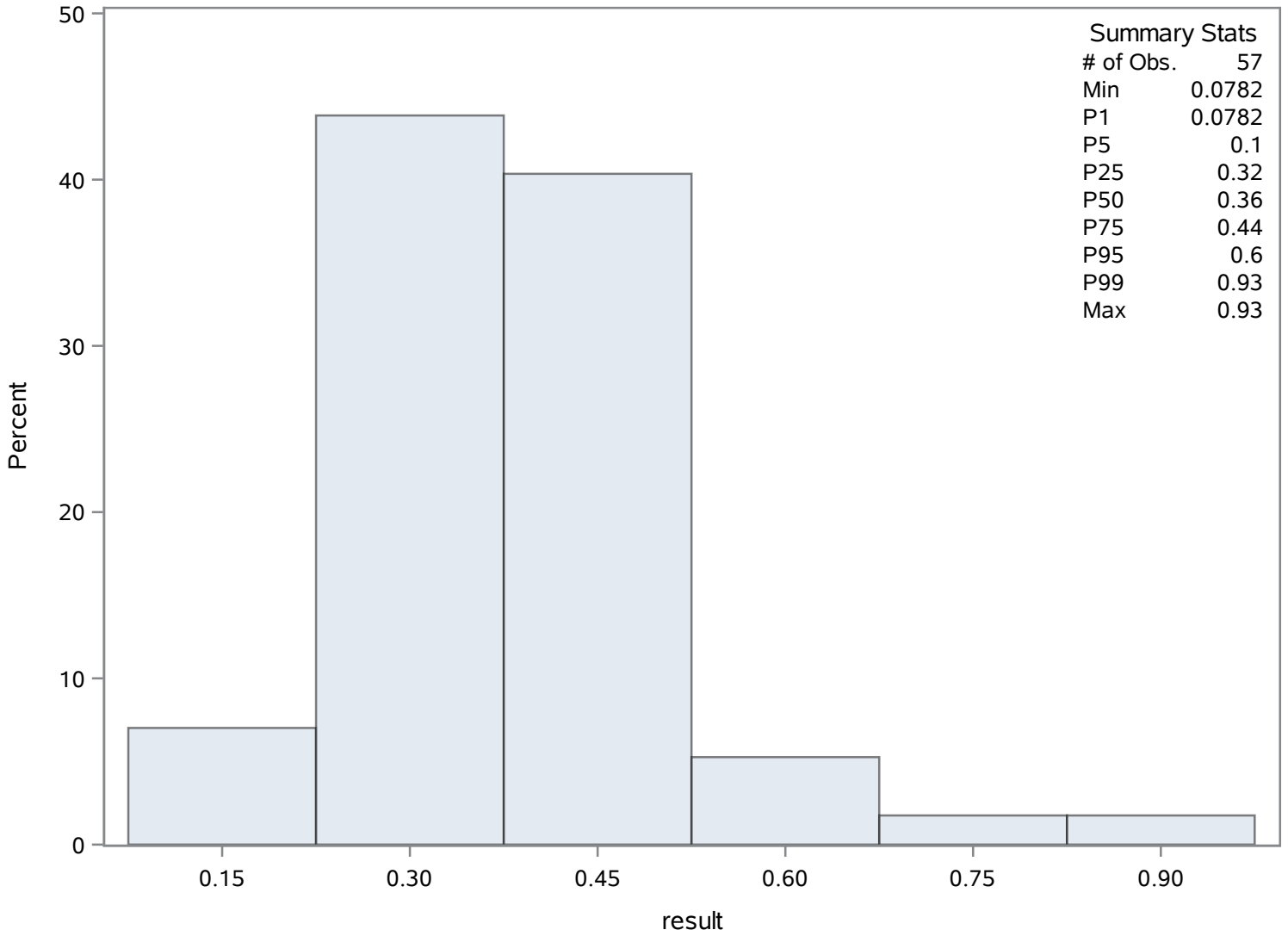
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0782	567	0.53	582
0.1000	569	0.54	574
0.1000	568	0.60	583
0.2000	566	0.72	562
0.2600	601	0.93	549

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	0.00728727	Sum Observations	0.4008
Std Deviation	0.00251035	Variance	6.30187E-6
Skewness	0.46448638	Kurtosis	-0.2505665
Uncorrected SS	0.00326104	Corrected SS	0.0003403
Coeff Variation	34.4484565	Std Error Mean	0.0003385

Basic Statistical Measures			
Location		Variability	
Mean	0.007287	Std Deviation	0.00251
Median	0.007000	Variance	6.30187E-6
Mode	0.010000	Range	0.01100
		Interquartile Range	0.00500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.52839	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.015
99%	0.015
95%	0.010
90%	0.010
75% Q3	0.010
50% Median	0.007
25% Q1	0.005
10%	0.004
5%	0.004
1%	0.004
0% Min	0.004

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Orthophosphate (P) (Dissolved) mg/L

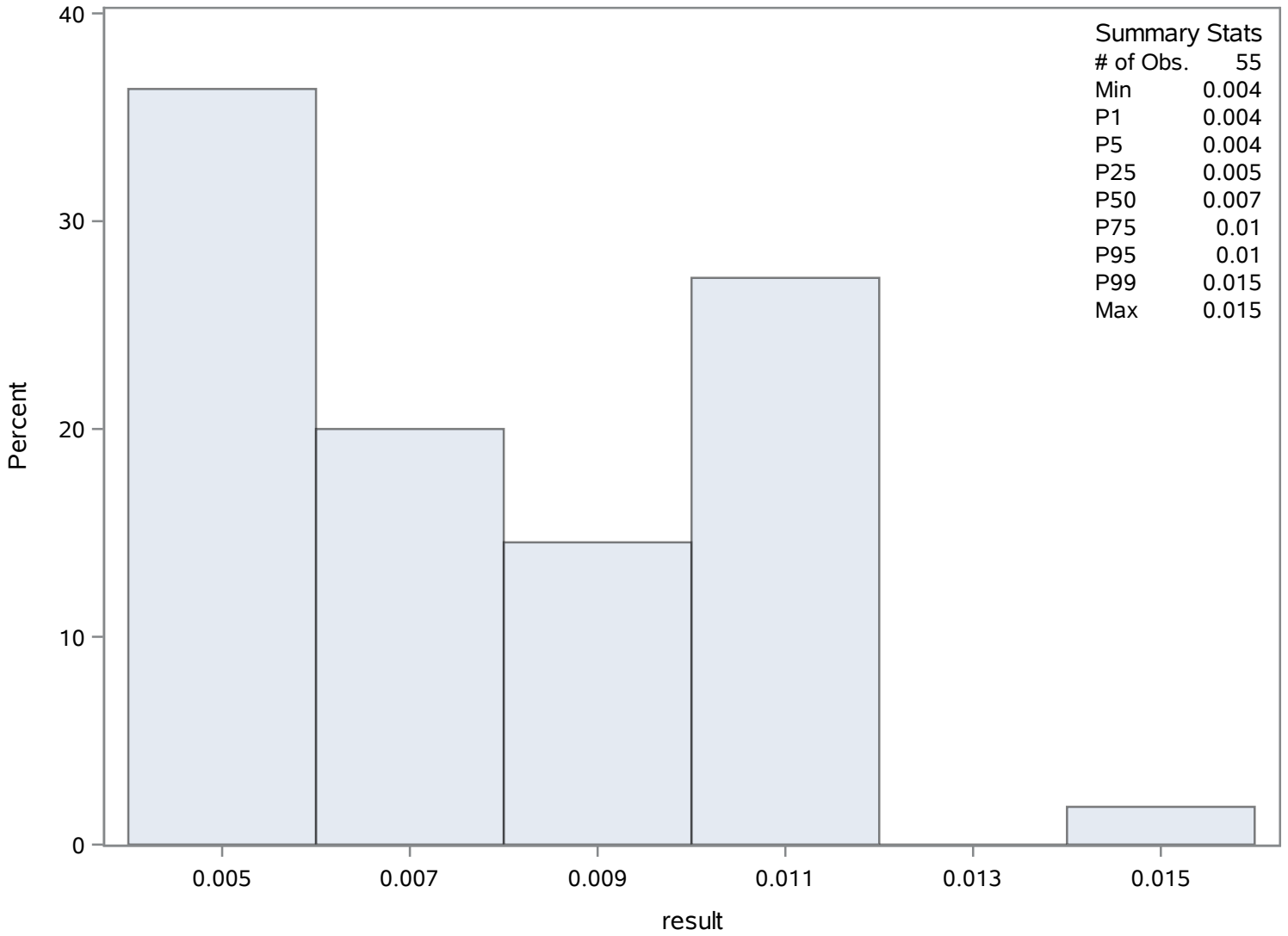
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	656	0.010	613
0.004	652	0.010	628
0.004	649	0.010	641
0.004	648	0.010	643
0.004	640	0.015	625

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	1.27109091	Sum Observations	69.91
Std Deviation	0.37421856	Variance	0.14003953
Skewness	1.9903055	Kurtosis	5.33785452
Uncorrected SS	96.4241	Corrected SS	7.56213455
Coeff Variation	29.440739	Std Error Mean	0.05045962

Basic Statistical Measures			
Location		Variability	
Mean	1.271091	Std Deviation	0.37422
Median	1.100000	Variance	0.14004
Mode	1.000000	Range	1.88000
		Interquartile Range	0.51000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.19026	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.88
99%	2.88
95%	2.00
90%	1.73
75% Q3	1.51
50% Median	1.10
25% Q1	1.00
10%	1.00
5%	1.00
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phaeophytin (Total) ug/L

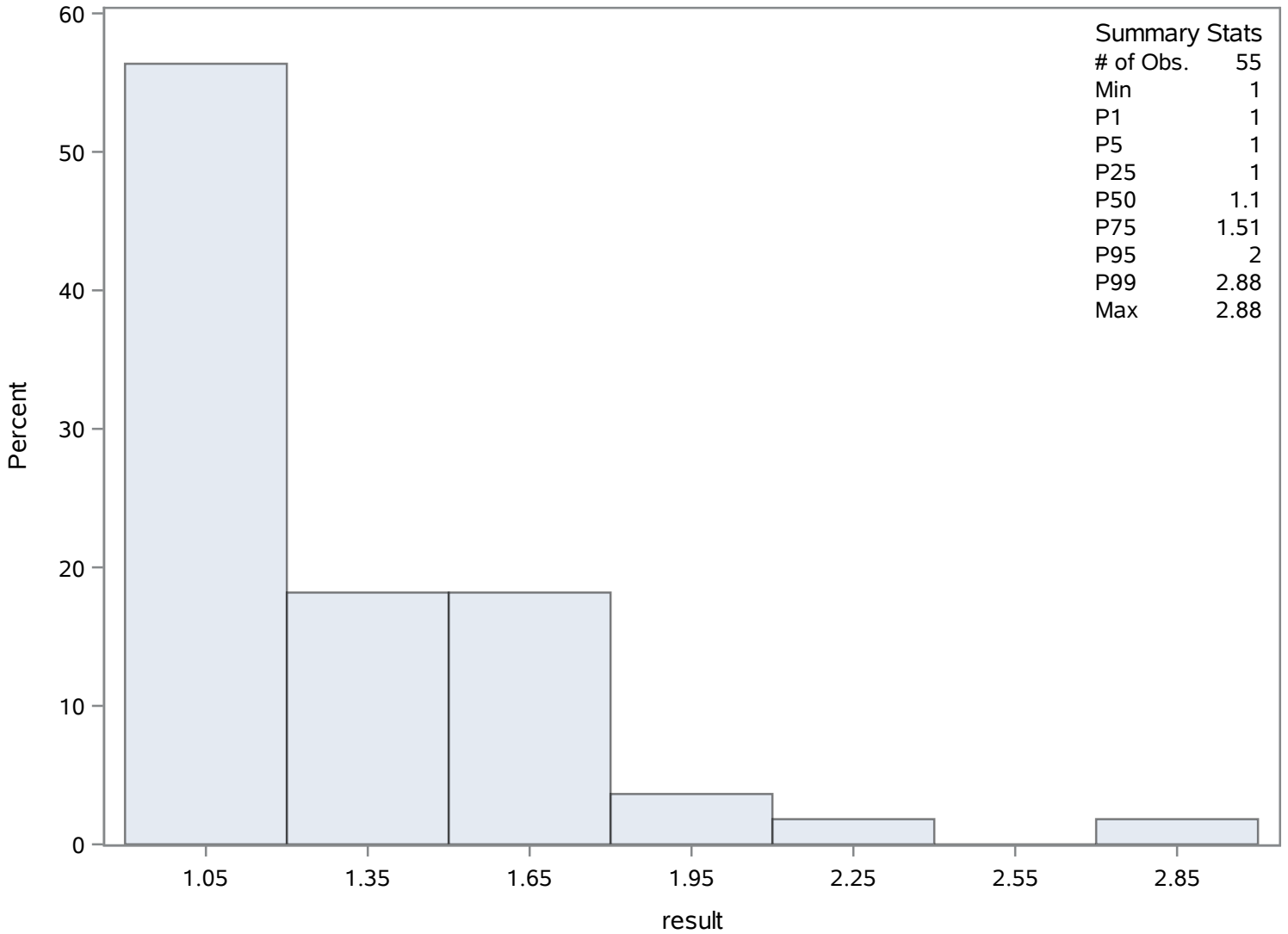
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	710	1.74	687
1	707	1.96	689
1	706	2.00	657
1	704	2.13	684
1	702	2.88	662

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	54	Sum Weights	54
Mean	0.01868519	Sum Observations	1.009
Std Deviation	0.00453841	Variance	0.0000206
Skewness	0.21163652	Kurtosis	-0.3432261
Uncorrected SS	0.019945	Corrected SS	0.00109165
Coeff Variation	24.2887967	Std Error Mean	0.0006176

Basic Statistical Measures			
Location		Variability	
Mean	0.018685	Std Deviation	0.00454
Median	0.018000	Variance	0.0000206
Mode	0.021000	Range	0.01900
		Interquartile Range	0.00500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	30.25456	Pr > t 	<.0001
Sign	M	27	Pr >= M 	<.0001
Signed Rank	S	742.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.029
99%	0.029
95%	0.028
90%	0.025
75% Q3	0.021
50% Median	0.018
25% Q1	0.016
10%	0.013
5%	0.011
1%	0.010
0% Min	0.010

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phosphorus- Total (Total) mg/L

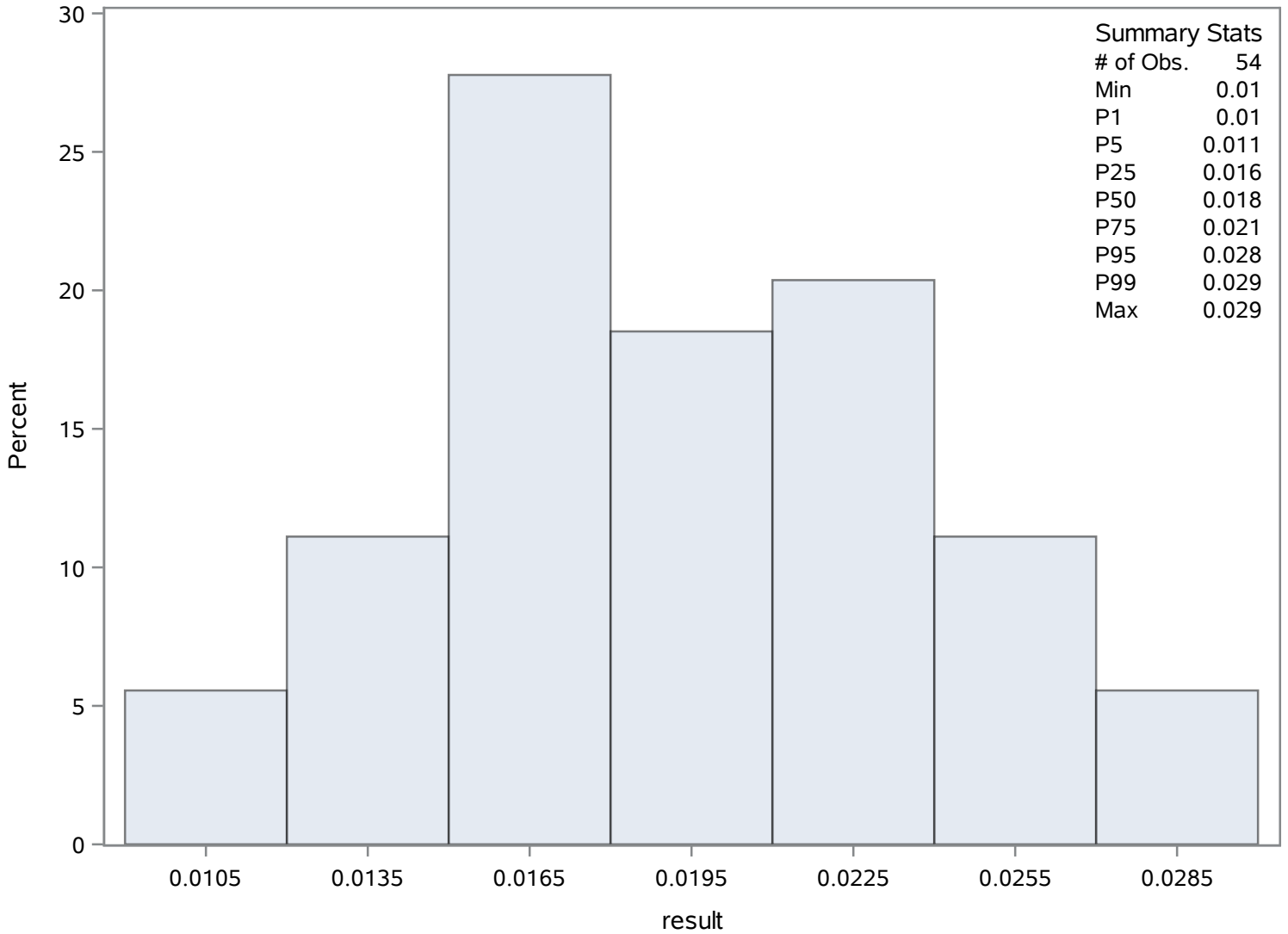
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	717	0.025	726
0.010	712	0.025	750
0.011	735	0.028	737
0.012	730	0.028	762
0.012	718	0.029	734

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	121.137037	Sum Observations	3270.7
Std Deviation	34.4653689	Variance	1187.86165
Skewness	0.60182206	Kurtosis	-0.1909713
Uncorrected SS	427087.31	Corrected SS	30884.403
Coeff Variation	28.4515535	Std Error Mean	6.63286333

Basic Statistical Measures			
Location		Variability	
Mean	121.1370	Std Deviation	34.46537
Median	117.0000	Variance	1188
Mode	146.0000	Range	141.60000
		Interquartile Range	57.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.26316	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	208.0
99%	208.0
95%	168.0
90%	166.0
75% Q3	150.0
50% Median	117.0
25% Q1	92.5
10%	81.9
5%	80.9
1%	66.4
0% Min	66.4

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Potassium (Dissolved) mg/L

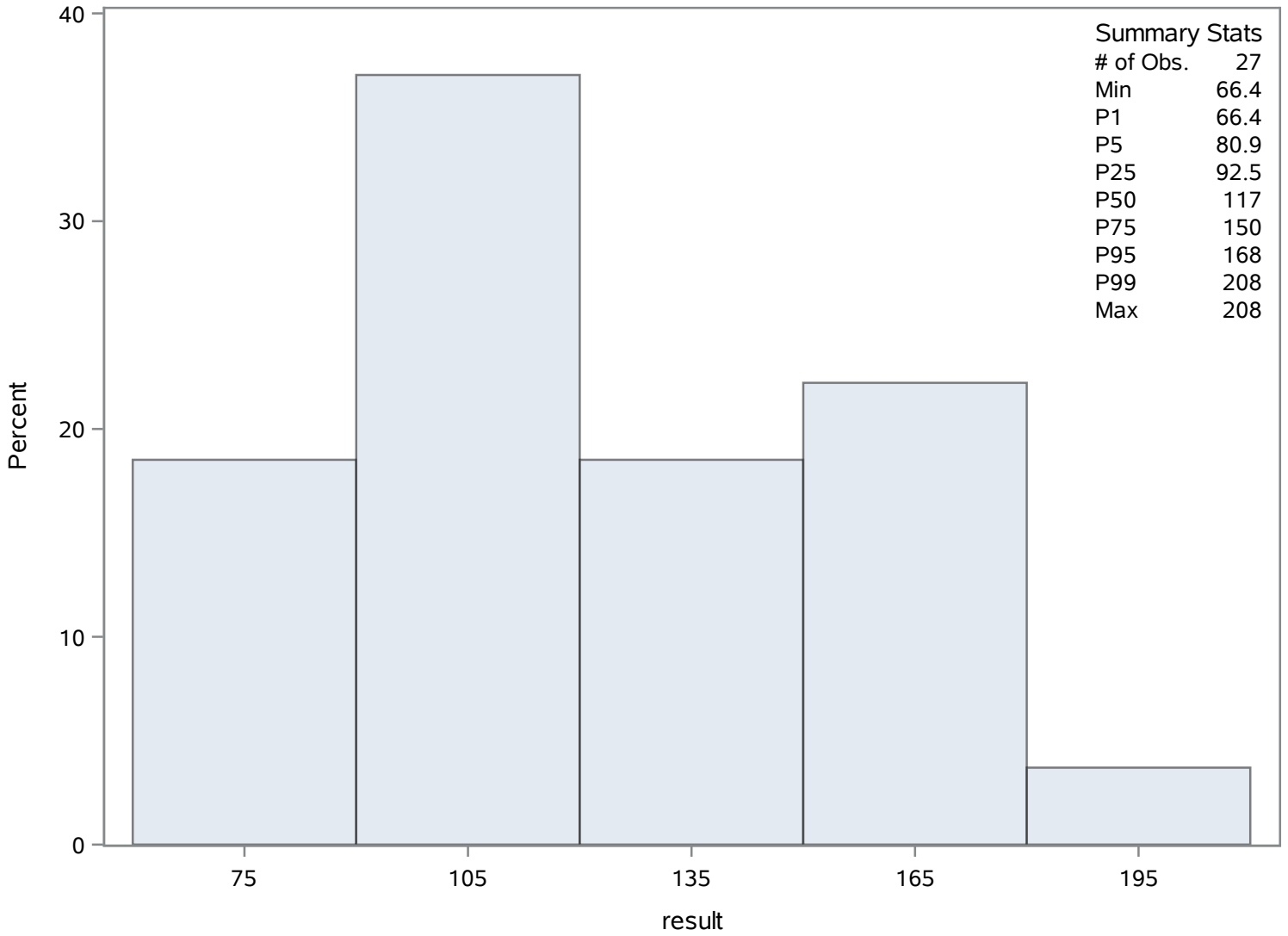
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
66.4	767	160	788
80.9	768	163	776
81.9	790	166	766
86.3	780	168	785
88.5	783	208	772

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	56	Sum Weights	56
Mean	4.28982143	Sum Observations	240.23
Std Deviation	1.65061695	Variance	2.72453633
Skewness	0.80099671	Kurtosis	0.96322059
Uncorrected SS	1180.3933	Corrected SS	149.849498
Coeff Variation	38.4775213	Std Error Mean	0.22057297

Basic Statistical Measures			
Location		Variability	
Mean	4.289821	Std Deviation	1.65062
Median	4.210000	Variance	2.72454
Mode	3.590000	Range	8.02000
		Interquartile Range	2.09500

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.44854	Pr > t 	<.0001
Sign	M	28	Pr >= M 	<.0001
Signed Rank	S	798	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.660
99%	9.660
95%	7.420
90%	6.460
75% Q3	5.235
50% Median	4.210
25% Q1	3.140
10%	2.310
5%	1.930

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

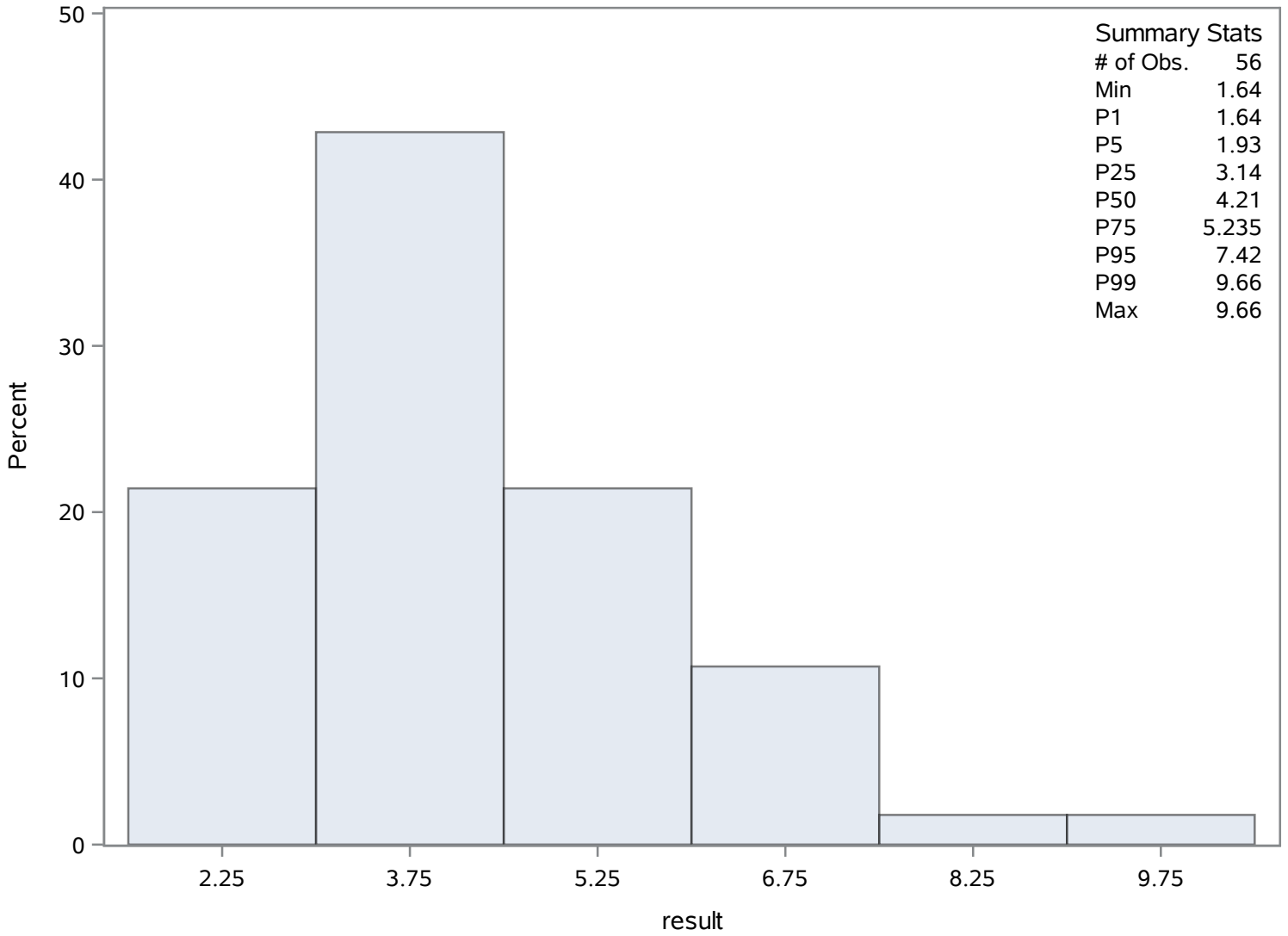
Quantiles (Definition 5)	
Level	Quantile
1%	1.640
0% Min	1.640

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.64	795	7.18	822
1.65	835	7.26	830
1.93	800	7.42	799
2.14	801	7.60	810
2.17	823	9.66	826

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	57	Sum Weights	57
Mean	2.20666667	Sum Observations	125.78
Std Deviation	0.82104753	Variance	0.67411905
Skewness	0.9375259	Kurtosis	1.51579339
Uncorrected SS	315.3052	Corrected SS	37.7506667
Coeff Variation	37.207592	Std Error Mean	0.1087504

Basic Statistical Measures			
Location		Variability	
Mean	2.206667	Std Deviation	0.82105
Median	2.240000	Variance	0.67412
Mode	1.050000	Range	3.89000
		Interquartile Range	0.94000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	20.29111	Pr > t 	<.0001
Sign	M	28.5	Pr >= M 	<.0001
Signed Rank	S	826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.86
99%	4.86
95%	3.56
90%	3.32
75% Q3	2.58
50% Median	2.24
25% Q1	1.64
10%	1.18
5%	1.05

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure
Variable: result

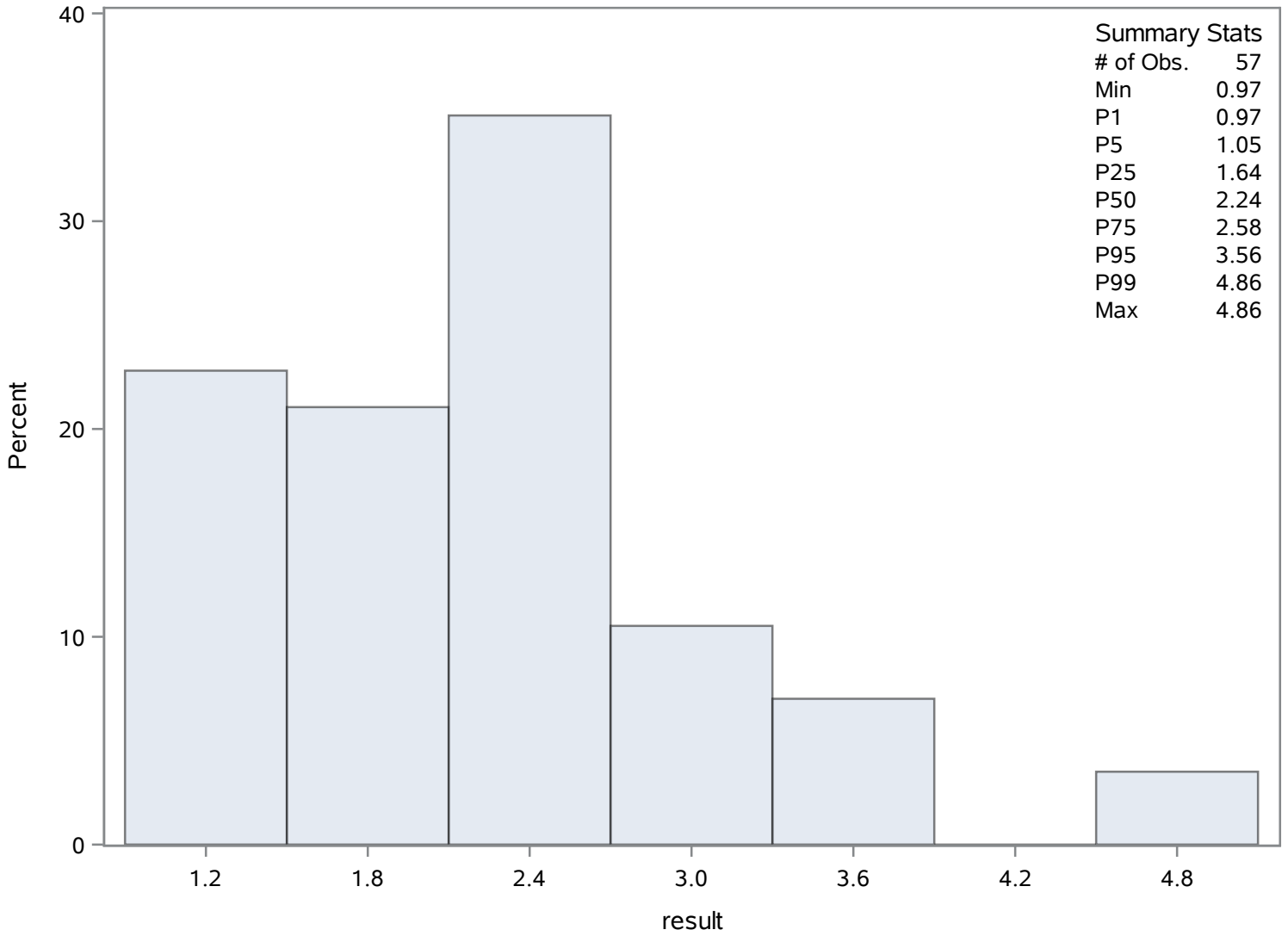
Quantiles (Definition 5)	
Level	Quantile
1%	0.97
0% Min	0.97

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.97	857	3.36	849
1.05	852	3.50	867
1.05	851	3.56	885
1.07	858	4.58	883
1.11	892	4.86	876

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Volatile (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	11.3771739	Sum Observations	523.35
Std Deviation	3.37590986	Variance	11.3967674
Skewness	0.57957174	Kurtosis	-0.7205779
Uncorrected SS	6467.0985	Corrected SS	512.854533
Coeff Variation	29.6726576	Std Error Mean	0.49775075

Basic Statistical Measures			
Location		Variability	
Mean	11.37717	Std Deviation	3.37591
Median	10.63500	Variance	11.39677
Mode	8.61000	Range	11.95000
		Interquartile Range	5.42000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	22.85717	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.210
99%	18.210
95%	17.820
90%	17.180
75% Q3	14.080
50% Median	10.635
25% Q1	8.660
10%	7.410
5%	7.100
1%	6.260
0% Min	6.260

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Salinity (Total) ppt

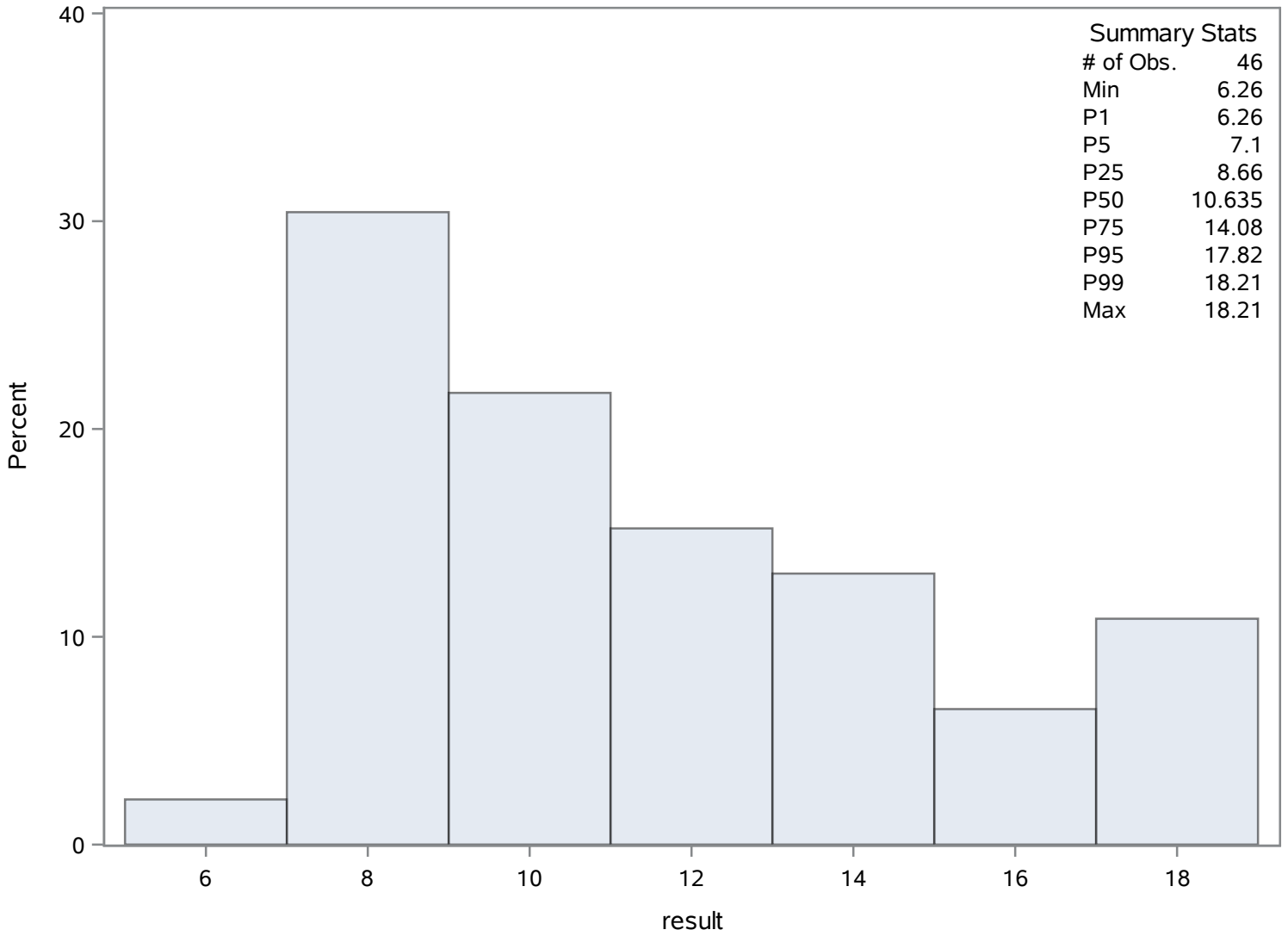
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.26	926	17.18	914
7.06	919	17.35	915
7.10	949	17.82	912
7.39	927	18.18	931
7.41	920	18.21	913

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Coastal Rivers

Chassahowitzka River CV 5

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	1.73757143	Sum Observations	60.815
Std Deviation	0.51816471	Variance	0.26849466
Skewness	1.00589329	Kurtosis	1.94476874
Uncorrected SS	114.799225	Corrected SS	9.12881857
Coeff Variation	29.8212032	Std Error Mean	0.08758582

Basic Statistical Measures			
Location		Variability	
Mean	1.737571	Std Deviation	0.51816
Median	1.650000	Variance	0.26849
Mode	1.250000	Range	2.65000
		Interquartile Range	0.75000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.8385	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.40
99%	3.40
95%	2.60
90%	2.50
75% Q3	2.05
50% Median	1.65
25% Q1	1.30
10%	1.20
5%	1.10

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

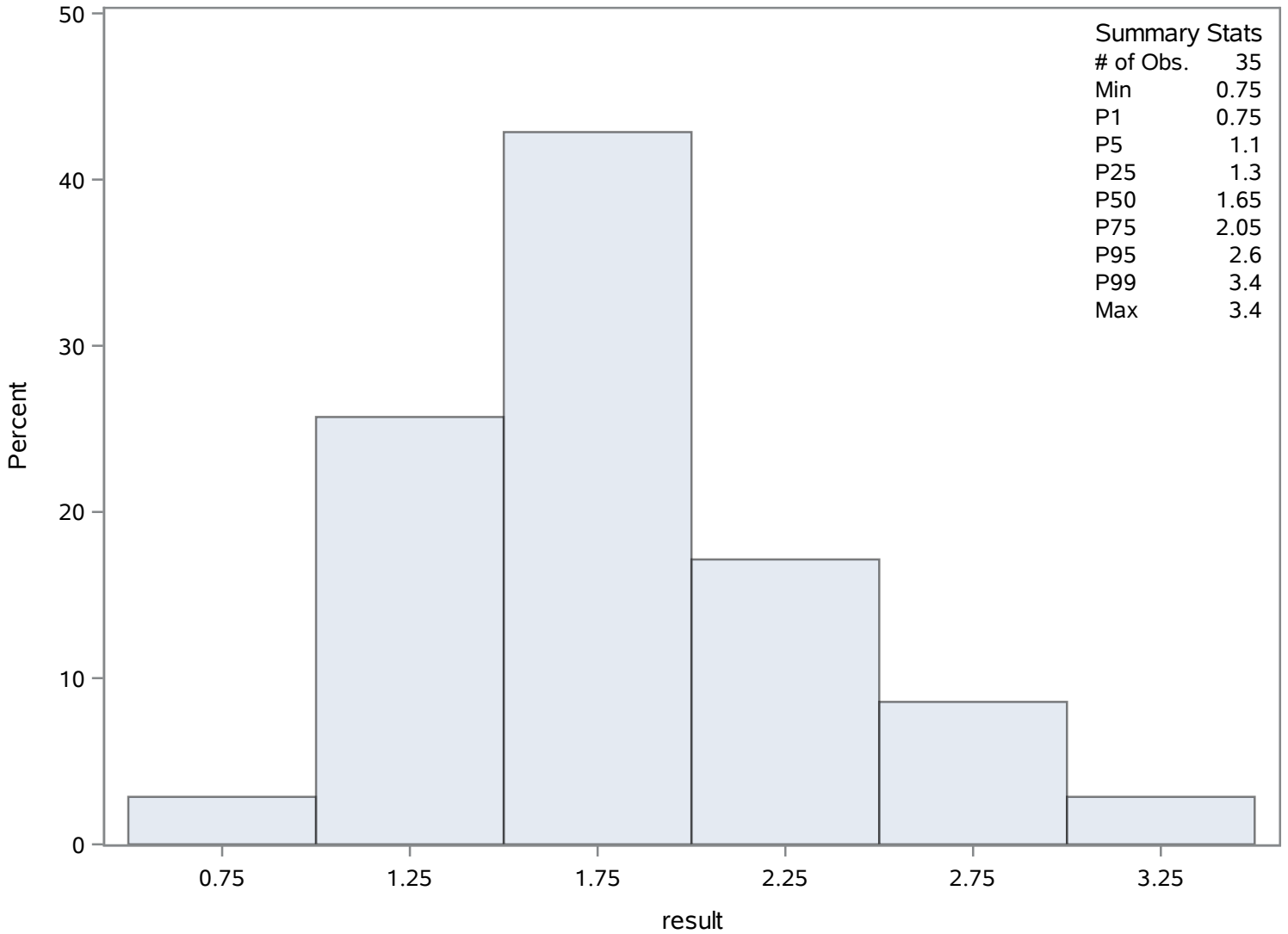
Quantiles (Definition 5)	
Level	Quantile
1%	0.75
0% Min	0.75

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.750	985	2.44	954
1.100	978	2.50	973
1.175	961	2.50	977
1.200	966	2.60	971
1.250	980	3.40	952

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	3235.18519	Sum Observations	87350
Std Deviation	907.250158	Variance	823102.849
Skewness	0.55435559	Kurtosis	-0.4855184
Uncorrected SS	303994100	Corrected SS	21400674.1
Coeff Variation	28.0432218	Std Error Mean	174.600374

Basic Statistical Measures			
Location		Variability	
Mean	3235.185	Std Deviation	907.25016
Median	3080.000	Variance	823103
Mode	.	Range	3520
		Interquartile Range	1480

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.52909	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5360
99%	5360
95%	4660
90%	4500
75% Q3	3960
50% Median	3080
25% Q1	2480
10%	2170
5%	2100
1%	1840
0% Min	1840

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

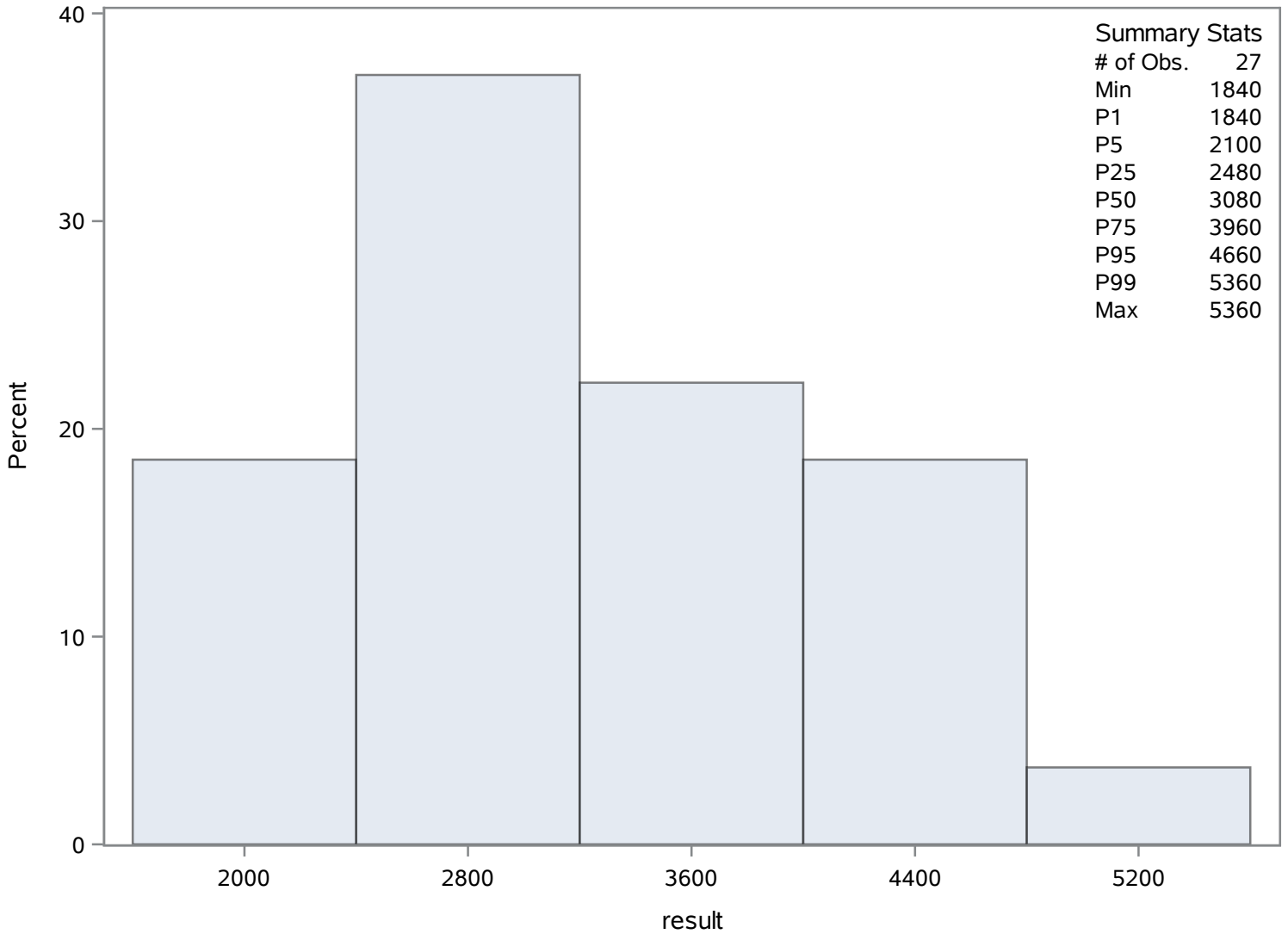
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1840	988	4280	1009
2100	1011	4430	987
2170	989	4500	997
2320	1001	4660	1006
2370	1004	5360	993

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 5
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	115583.639	Sum Observations	7050602
Std Deviation	294580.011	Variance	8.67774E10
Skewness	2.76434991	Kurtosis	5.83538057
Uncorrected SS	6.02158E12	Corrected SS	5.20664E12
Coeff Variation	254.863069	Std Error Mean	37717.1054

Basic Statistical Measures			
Location		Variability	
Mean	115584	Std Deviation	294580
Median	19460	Variance	8.67774E10
Mode	1000000	Range	989020
		Interquartile Range	9519

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	3.064489	Pr > t 	0.0033
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1000000
99%	1000000
95%	1000000
90%	30408
75% Q3	24555
50% Median	19460
25% Q1	15036
10%	12877
5%	12320
1%	10980
0% Min	10980

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Specific Conductance (Total) uS/cm

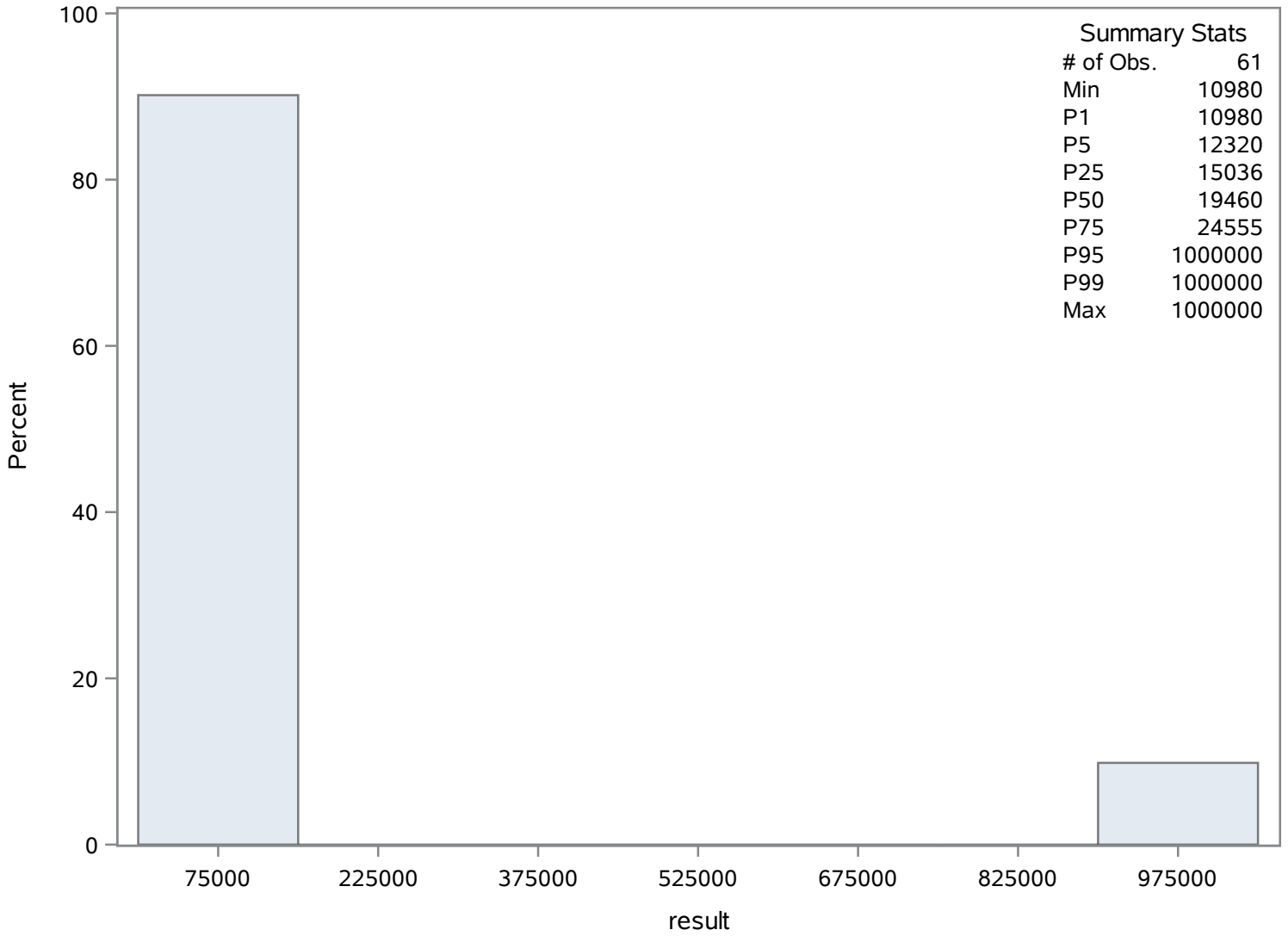
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10980	1049	1000000	1019
11807	1026	1000000	1020
12291	1042	1000000	1021
12320	1017	1000000	1022
12423	1072	1000000	1023

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	23.7336066	Sum Observations	1447.75
Std Deviation	5.47242726	Variance	29.9474601
Skewness	-0.6334371	Kurtosis	-0.3633526
Uncorrected SS	36157.1765	Corrected SS	1796.84761
Coeff Variation	23.0577146	Std Error Mean	0.70067251

Basic Statistical Measures			
Location		Variability	
Mean	23.73361	Std Deviation	5.47243
Median	24.26000	Variance	29.94746
Mode	28.57000	Range	21.03000
		Interquartile Range	8.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	33.87261	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.71
99%	31.71
95%	30.40
90%	30.01
75% Q3	28.57
50% Median	24.26
25% Q1	20.37
10%	16.11
5%	12.91
1%	10.68
0% Min	10.68

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

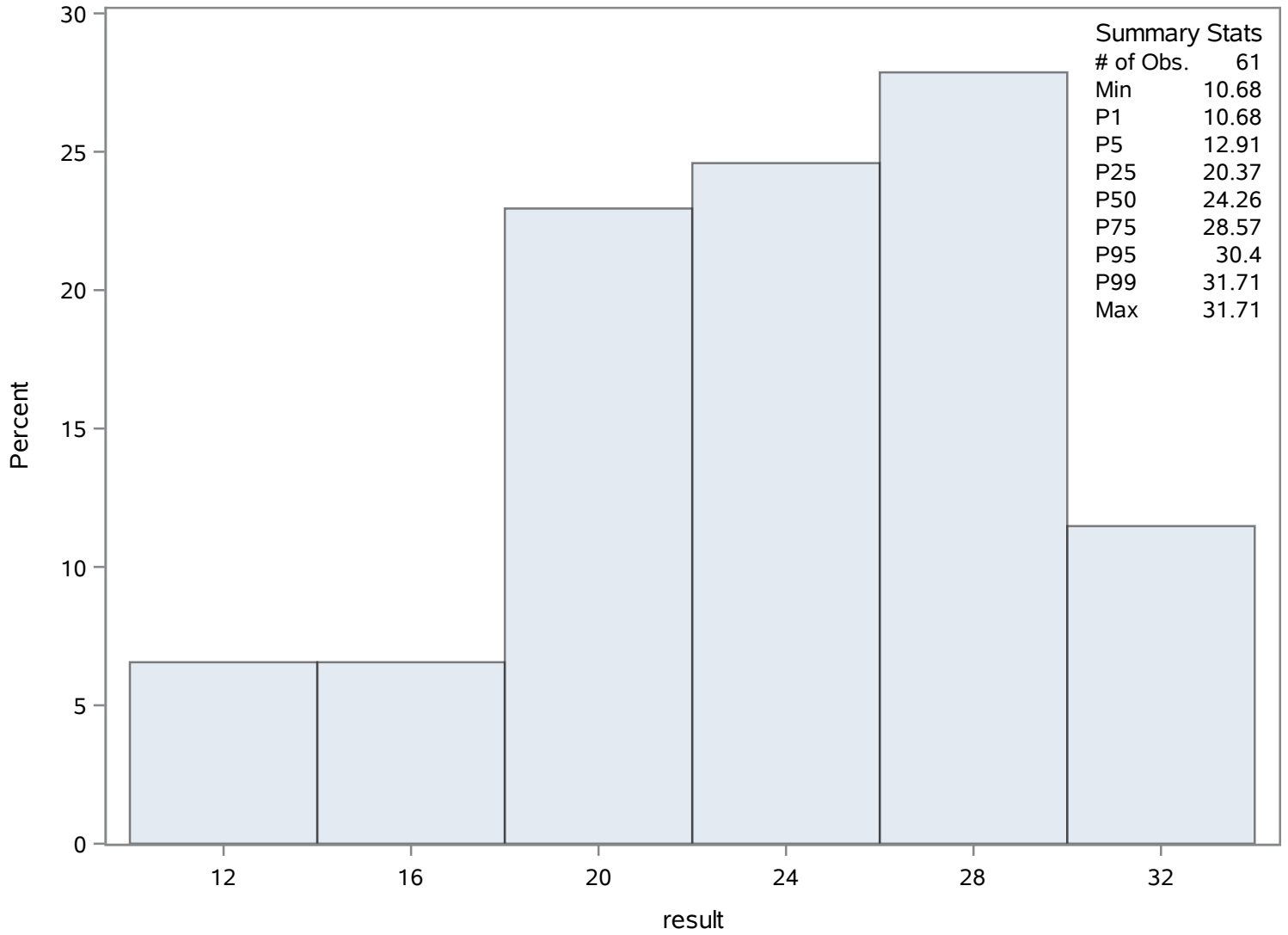
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.68	1122	30.30	1132
11.44	1104	30.40	1128
11.65	1103	30.64	1084
12.91	1110	30.76	1112
14.20	1130	31.71	1108

Chassahowitzka River - Fixed Station

Source: Coastal Rivers
Chassahowitzka River CV 5
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	55	Sum Weights	55
Mean	2.53727273	Sum Observations	139.55
Std Deviation	0.96429682	Variance	0.92986835
Skewness	-0.1031038	Kurtosis	1.08147322
Uncorrected SS	404.2893	Corrected SS	50.2128909
Coeff Variation	38.0052489	Std Error Mean	0.13002576

Basic Statistical Measures			
Location		Variability	
Mean	2.537273	Std Deviation	0.96430
Median	2.540000	Variance	0.92987
Mode	0.130000	Range	4.80000
		Interquartile Range	1.07000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.51362	Pr > t 	<.0001
Sign	M	27.5	Pr >= M 	<.0001
Signed Rank	S	770	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.93
99%	4.93
95%	4.18
90%	3.78
75% Q3	3.05
50% Median	2.54
25% Q1	1.98
10%	1.55
5%	0.40

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

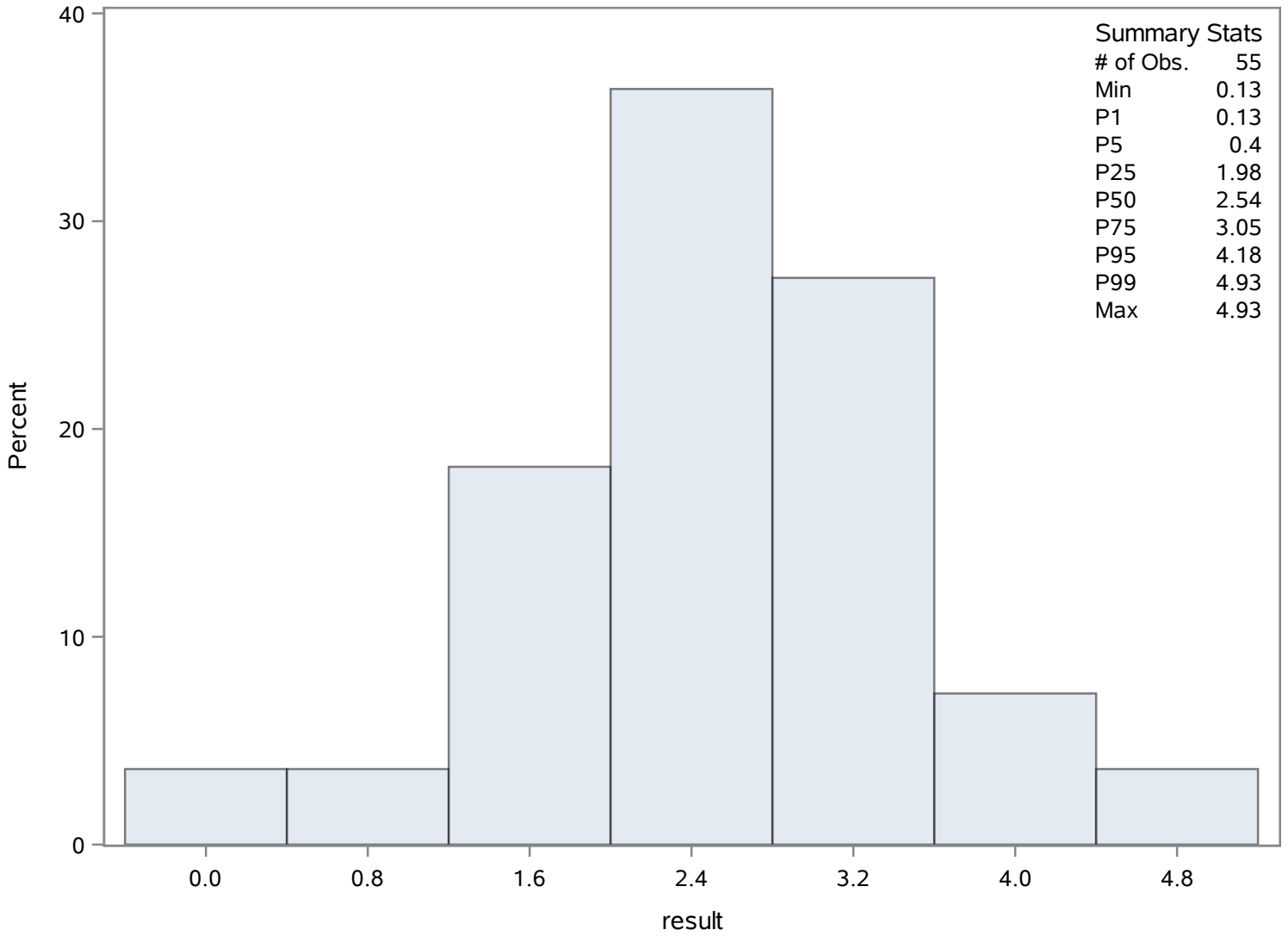
Quantiles (Definition 5)	
Level	Quantile
1%	0.13
0% Min	0.13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	1143	3.92	1146
0.13	1137	4.17	1166
0.40	1142	4.18	1164
1.15	1165	4.77	1152
1.37	1139	4.93	1168

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	7.70147541	Sum Observations	469.79
Std Deviation	0.22843552	Variance	0.05218279
Skewness	-0.7252419	Kurtosis	0.21406785
Uncorrected SS	3621.2071	Corrected SS	3.13096721
Coeff Variation	2.96612672	Std Error Mean	0.02924817

Basic Statistical Measures			
Location		Variability	
Mean	7.701475	Std Deviation	0.22844
Median	7.740000	Variance	0.05218
Mode	7.660000	Range	1.01000
		Interquartile Range	0.28000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	263.3148	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.11
99%	8.11
95%	7.98
90%	7.96
75% Q3	7.85
50% Median	7.74
25% Q1	7.57
10%	7.39
5%	7.26

Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

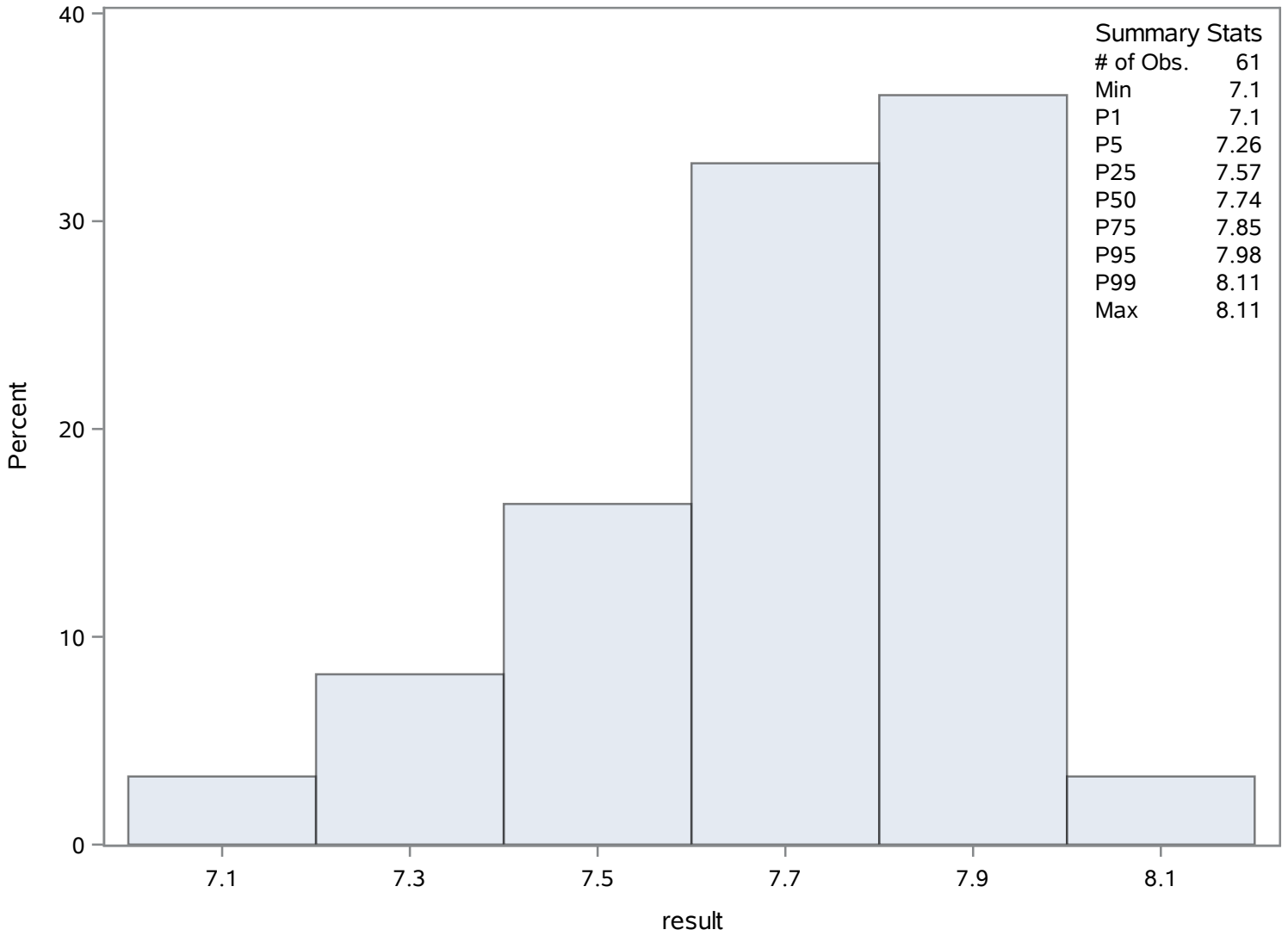
Quantiles (Definition 5)	
Level	Quantile
1%	7.10
0% Min	7.10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.10	1198	7.97	1219
7.11	1193	7.98	1235
7.25	1218	7.99	1237
7.26	1203	8.08	1196
7.31	1199	8.11	1238

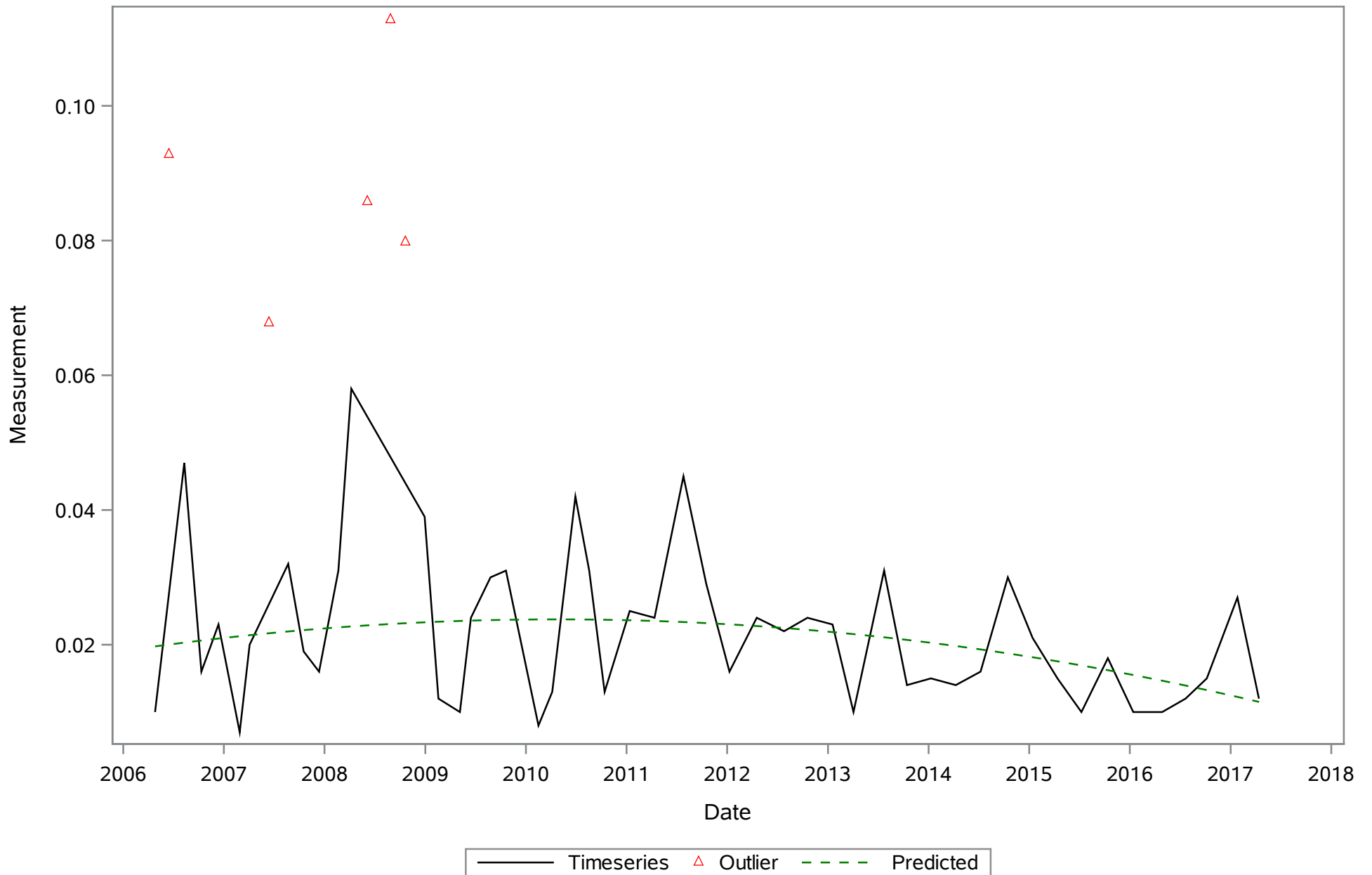
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
pH (Total) SU

The UNIVARIATE Procedure

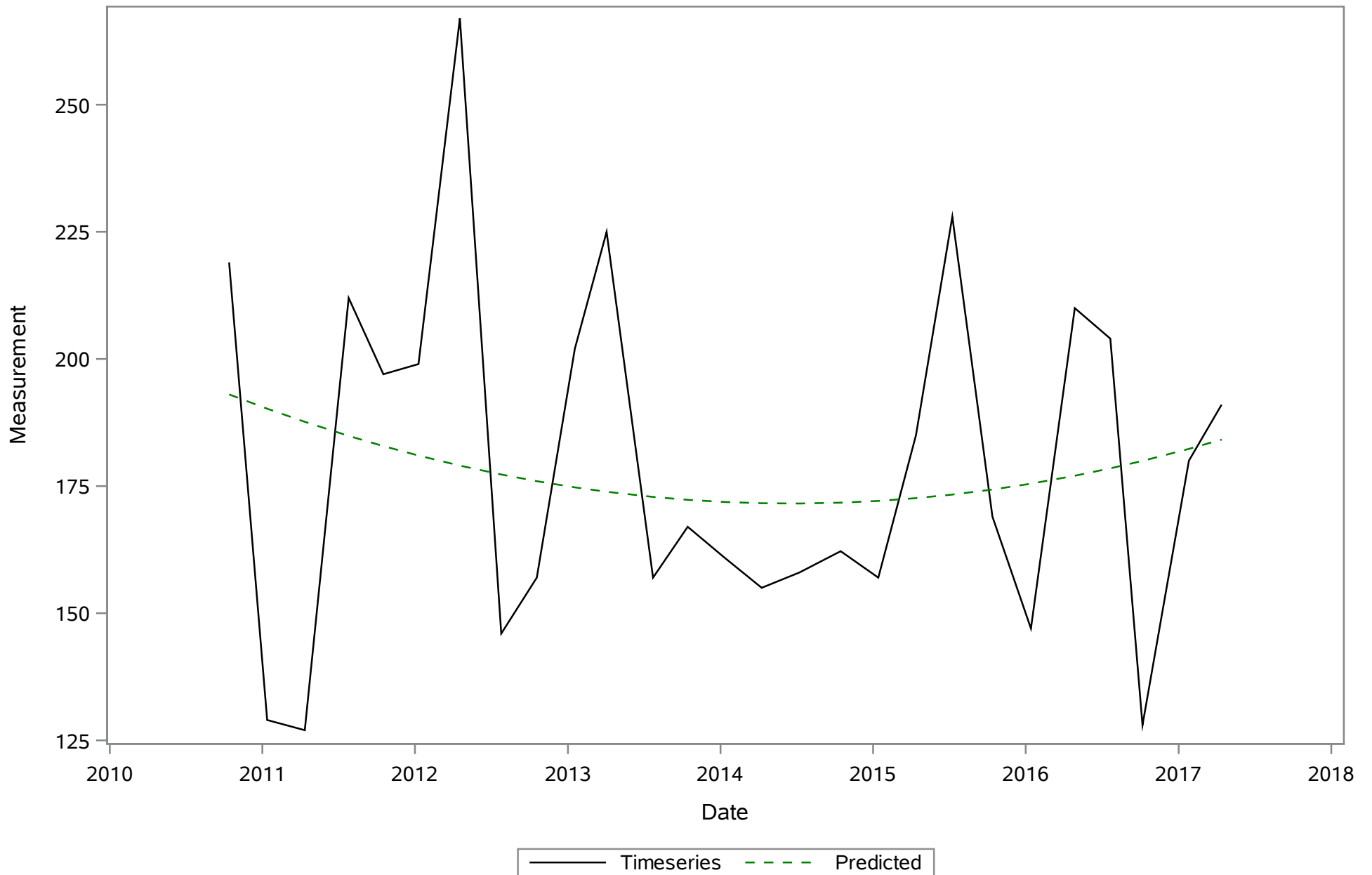
Distribution of result



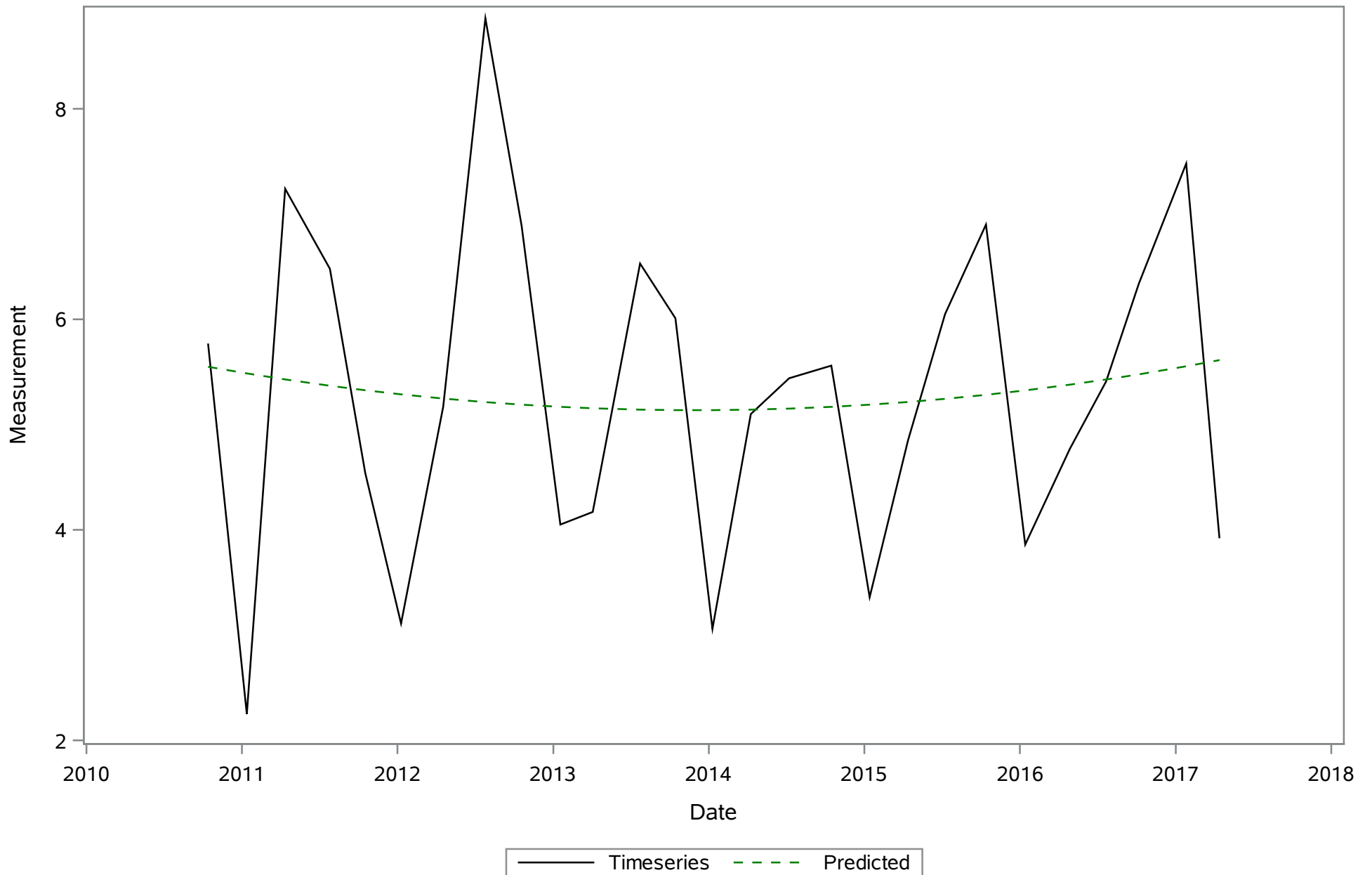
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Ammonia (N) (Total) mg/L



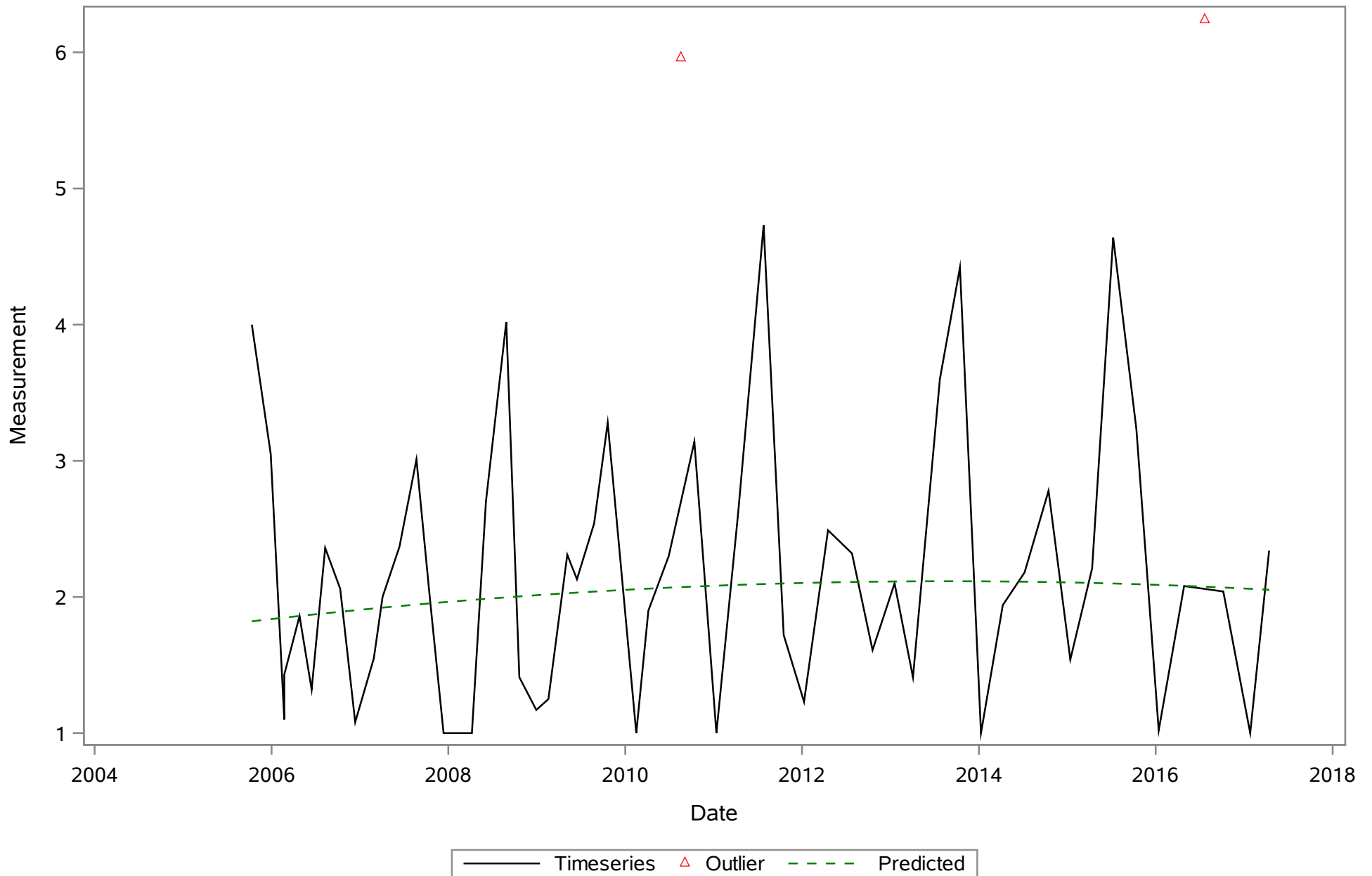
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Calcium (Dissolved) mg/L



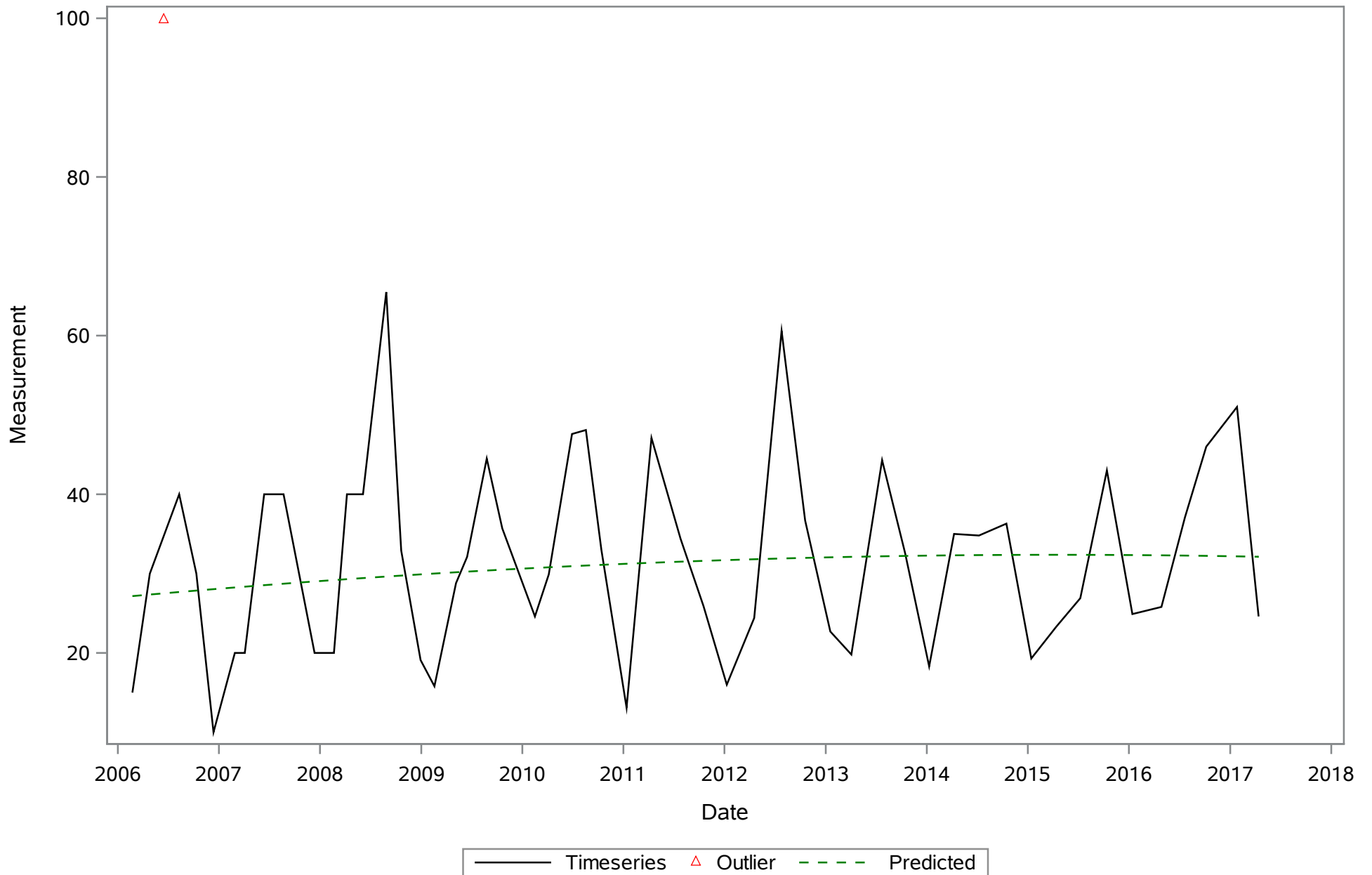
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Carbon- Total Organic (Total) mg/L



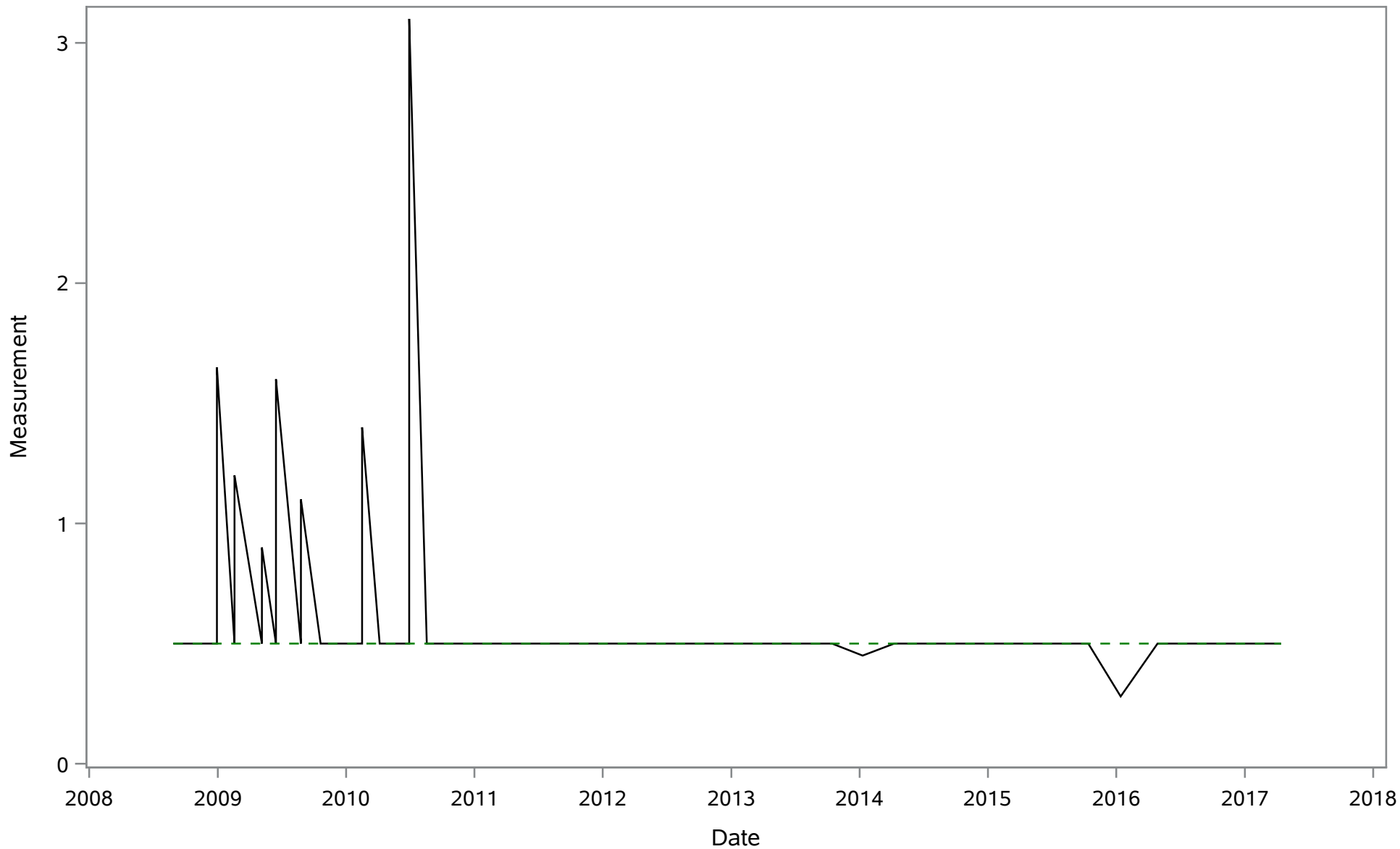
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Chlorophyll a (Total) ug/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Color (Dissolved) PCU

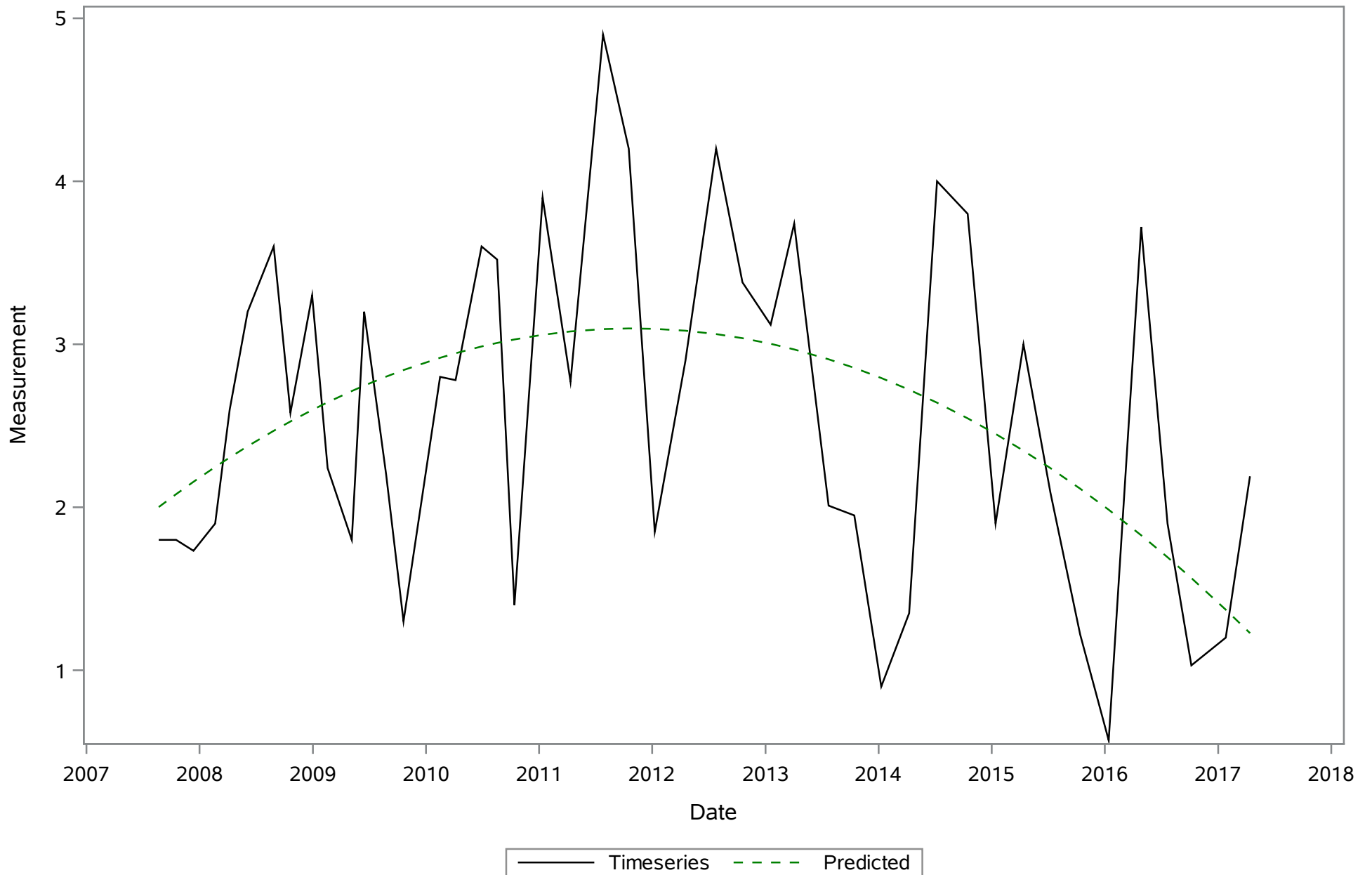


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth (Total) Meters

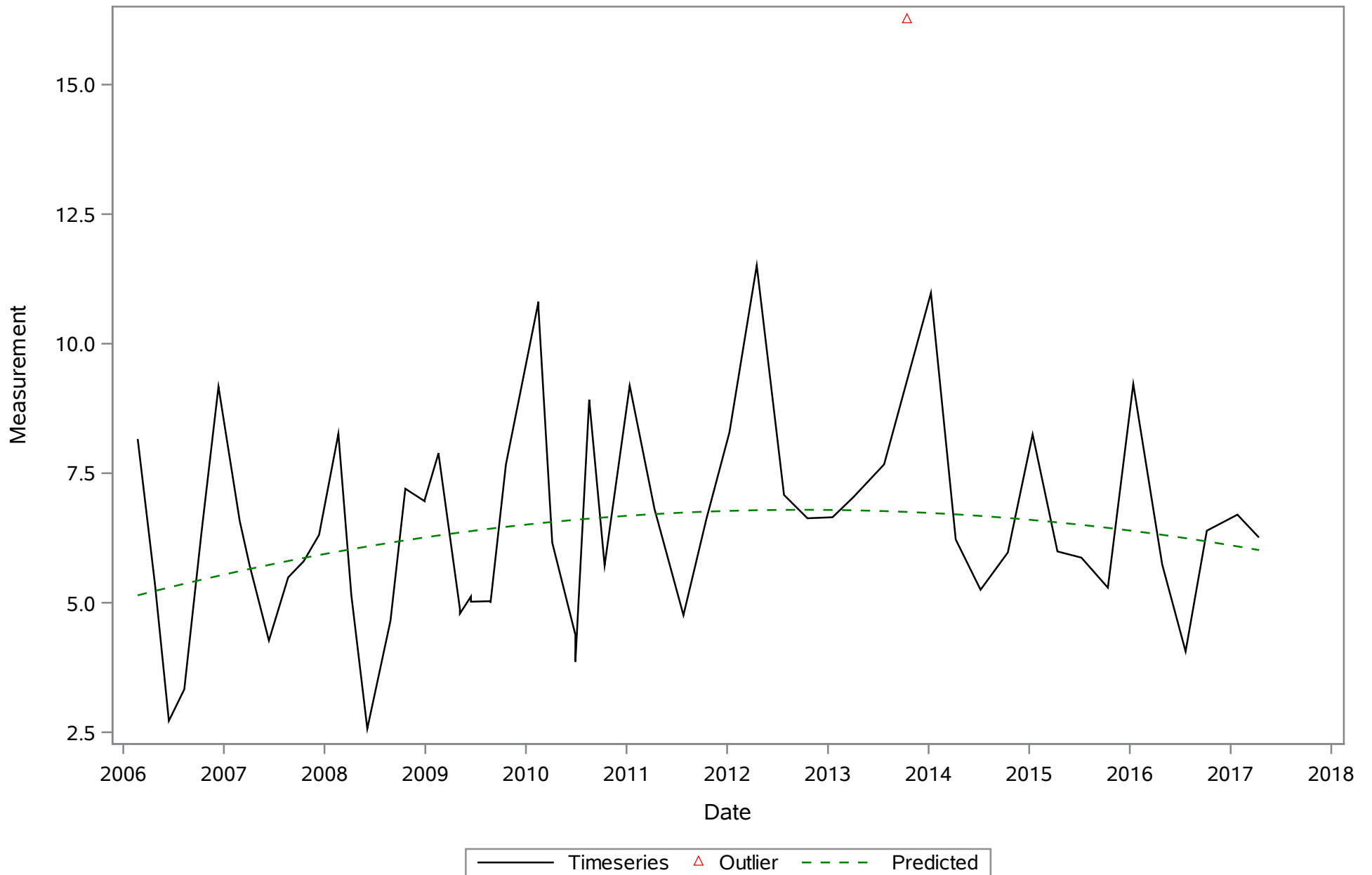


— Timeseries - - - Predicted

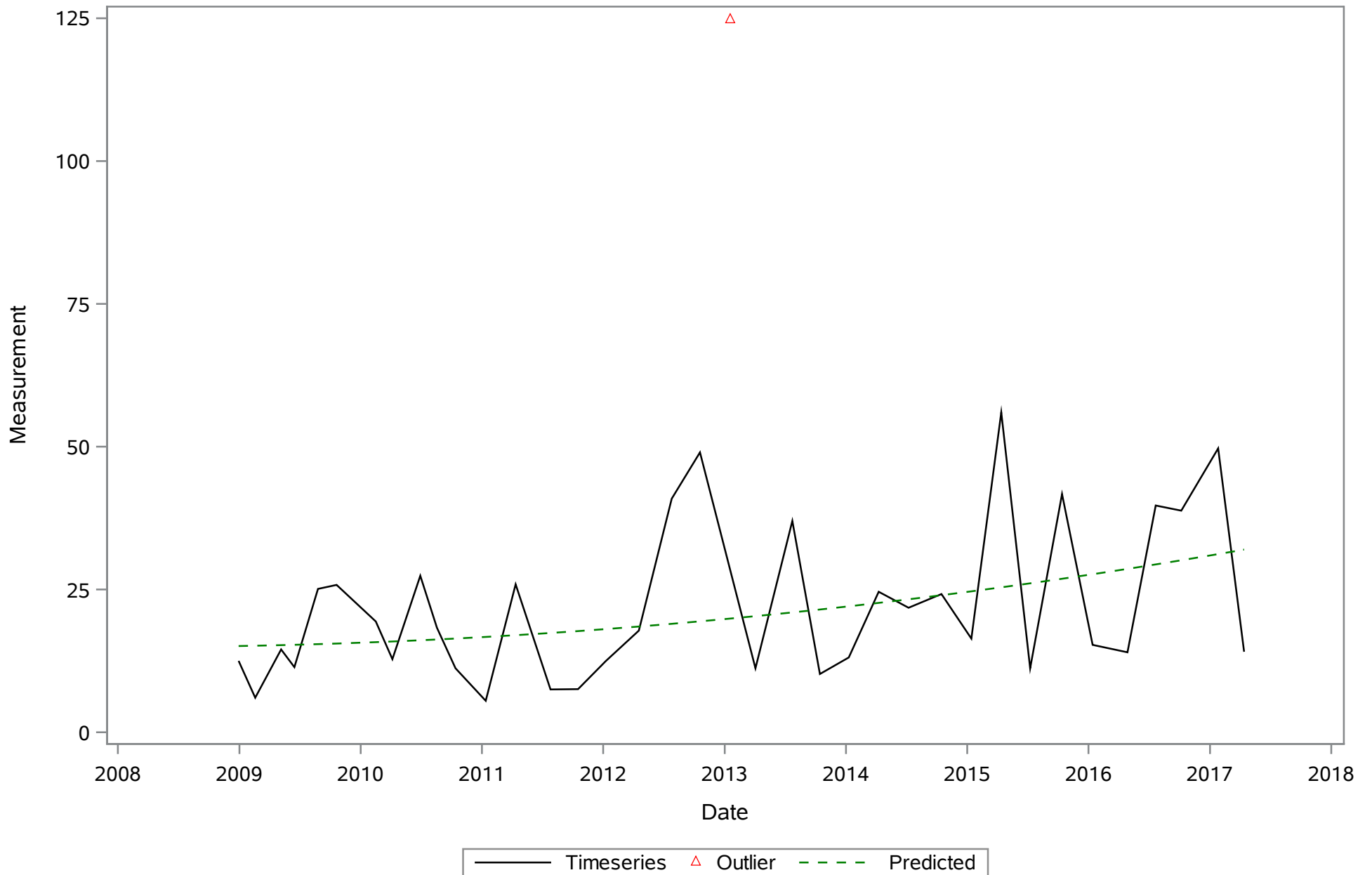
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth, bottom (Total) Meters



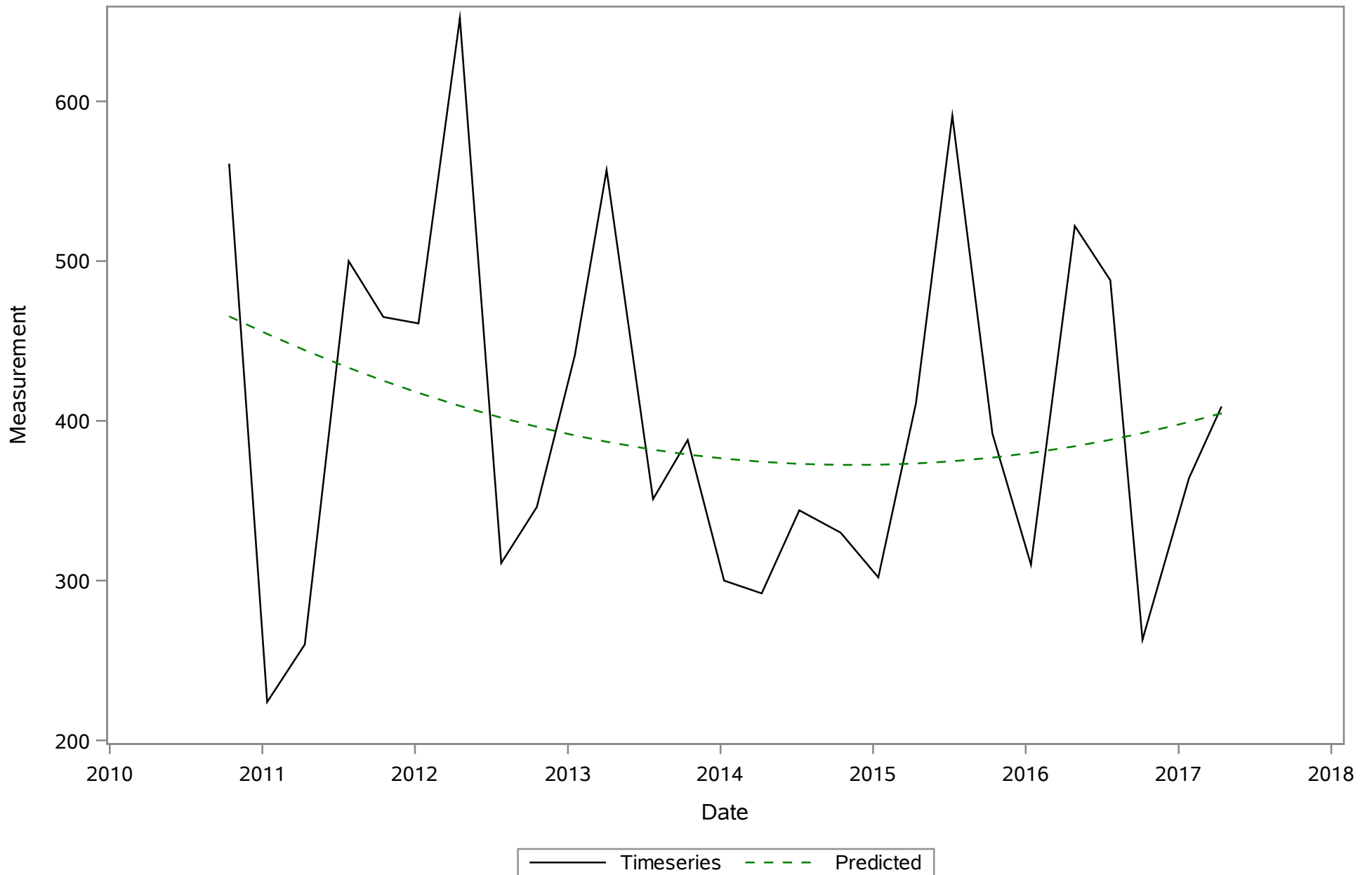
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Dissolved Oxygen (Total) mg/L



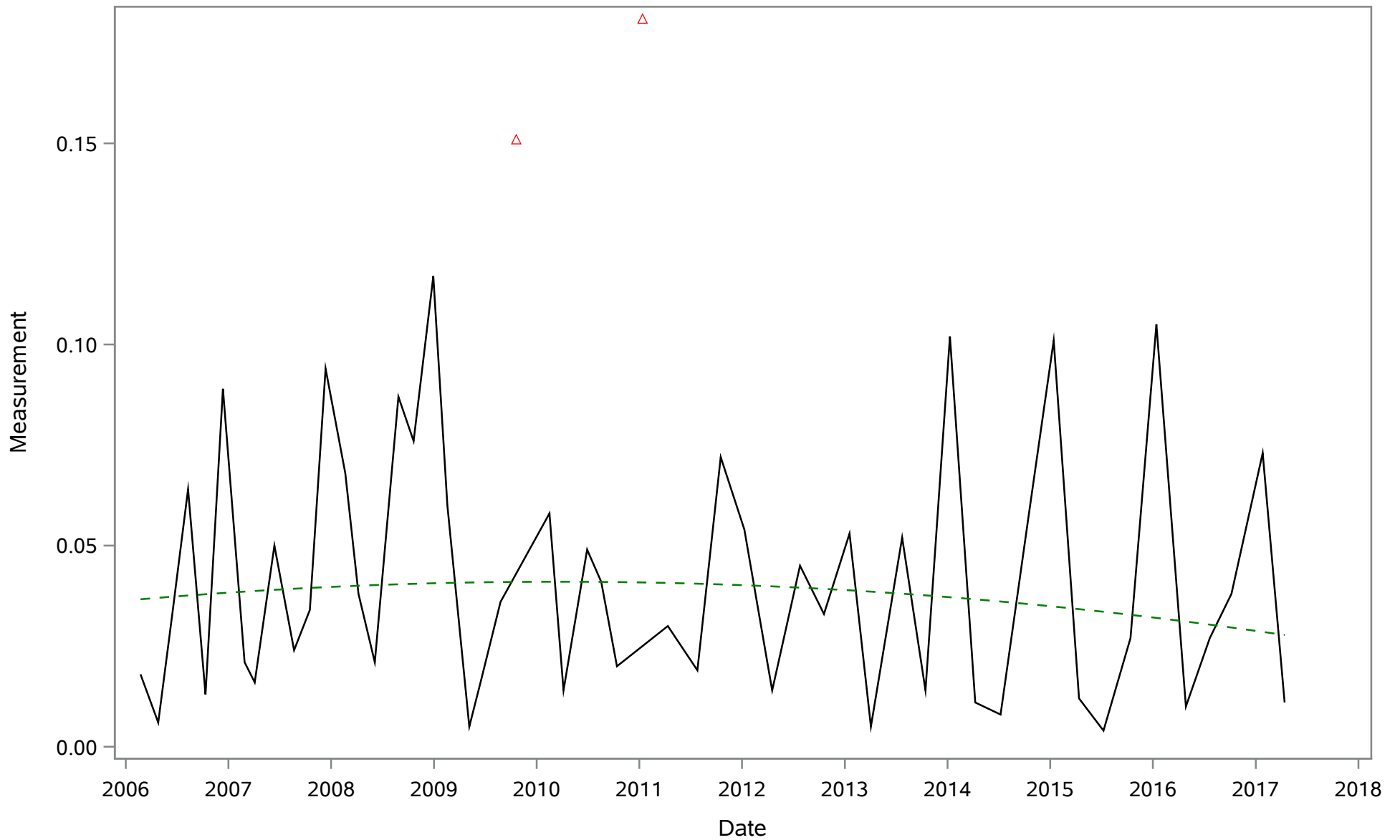
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Iron (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Magnesium (Dissolved) mg/L

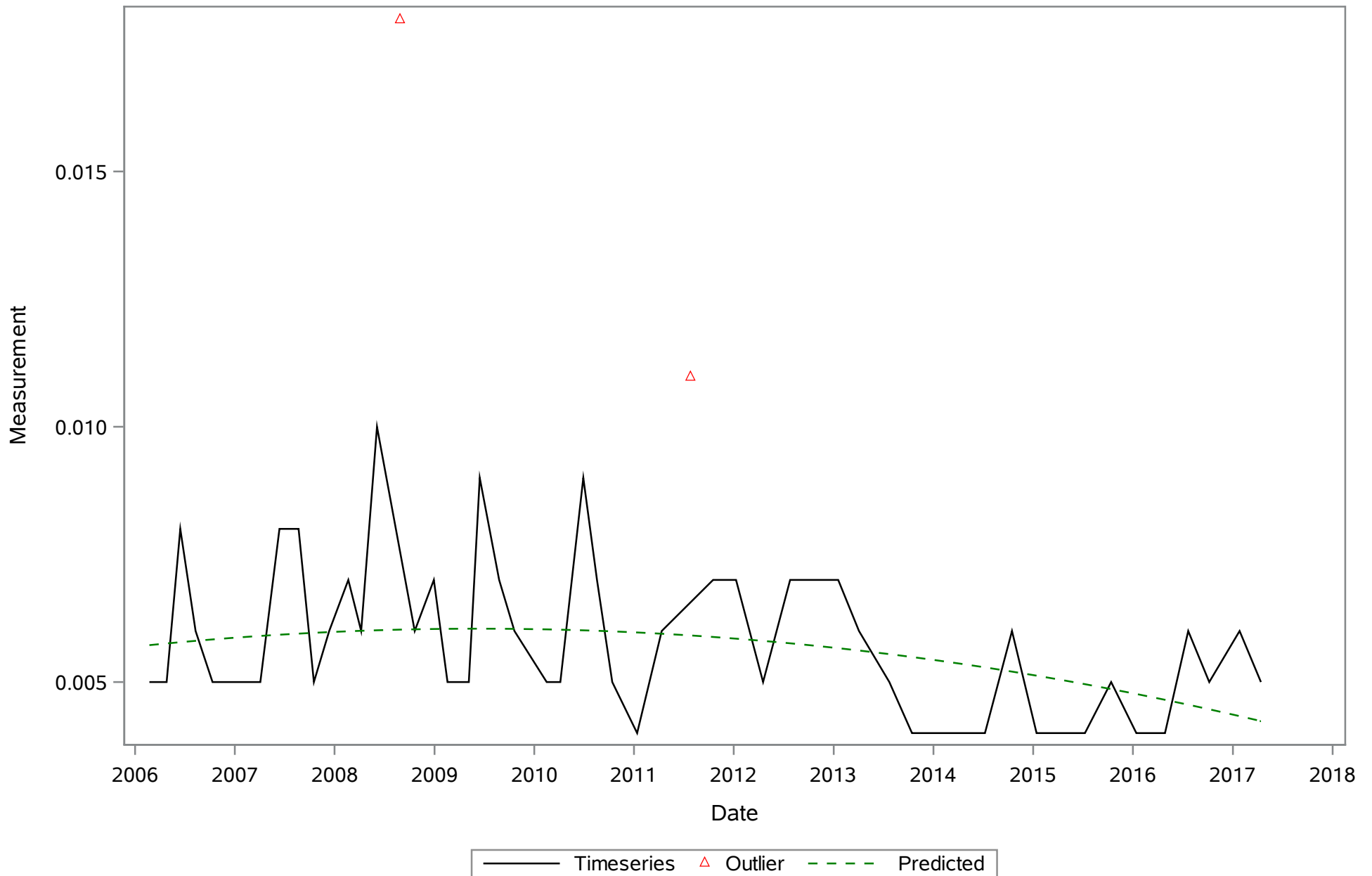


Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrate-Nitrite (N) (Total) mg/L

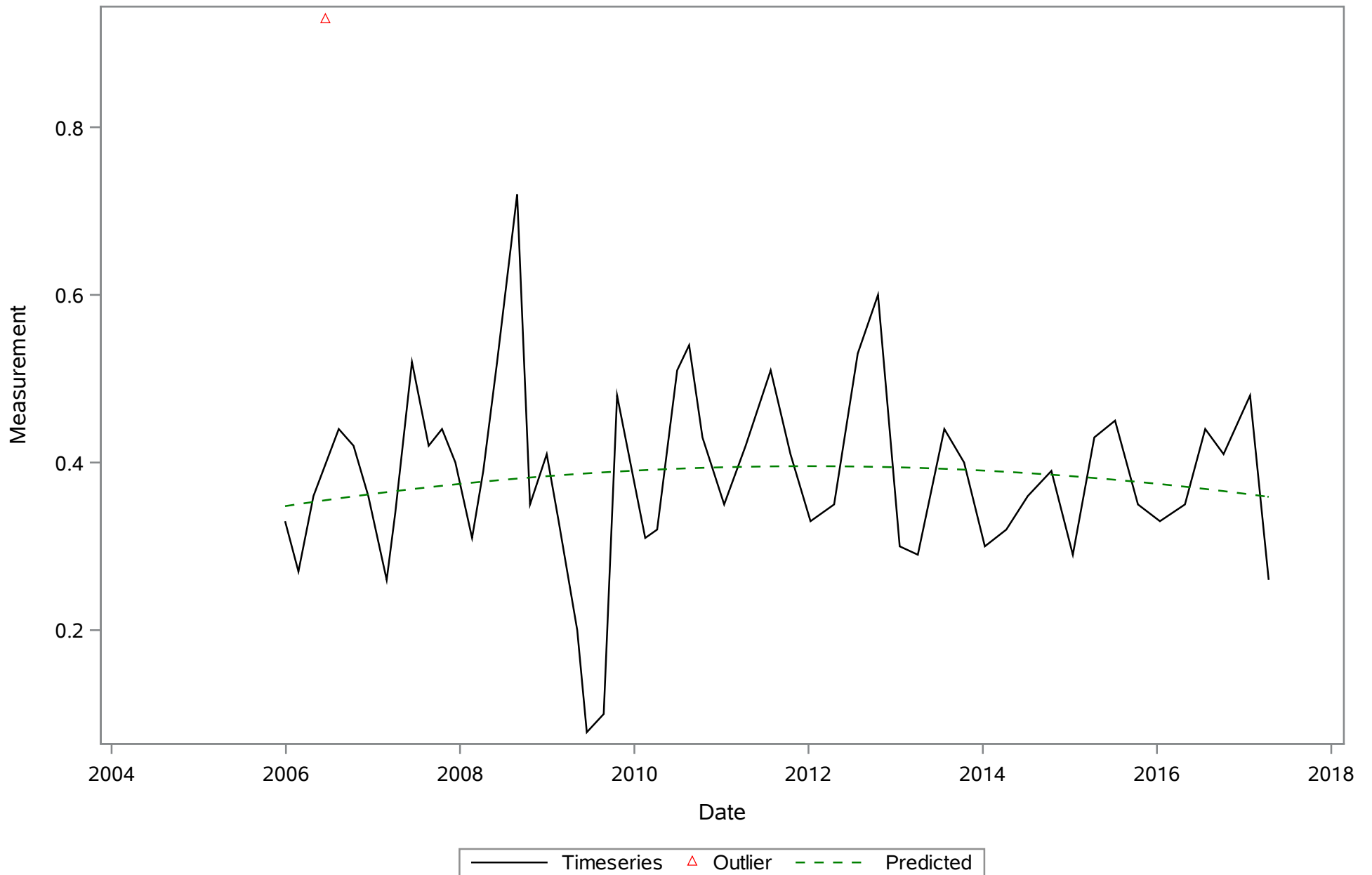


— Timeseries △ Outlier - - - Predicted

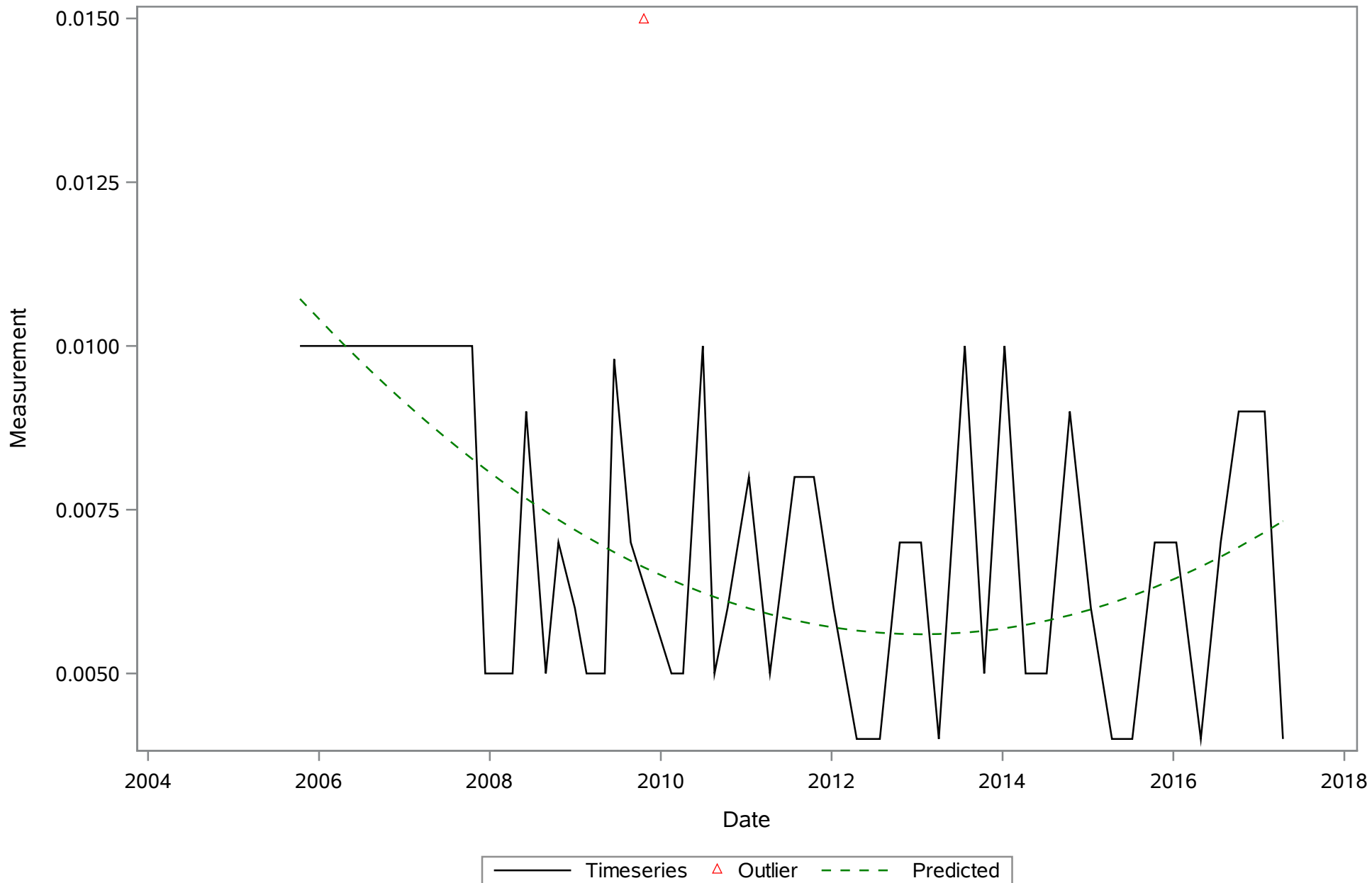
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrite (N) (Total) mg/L



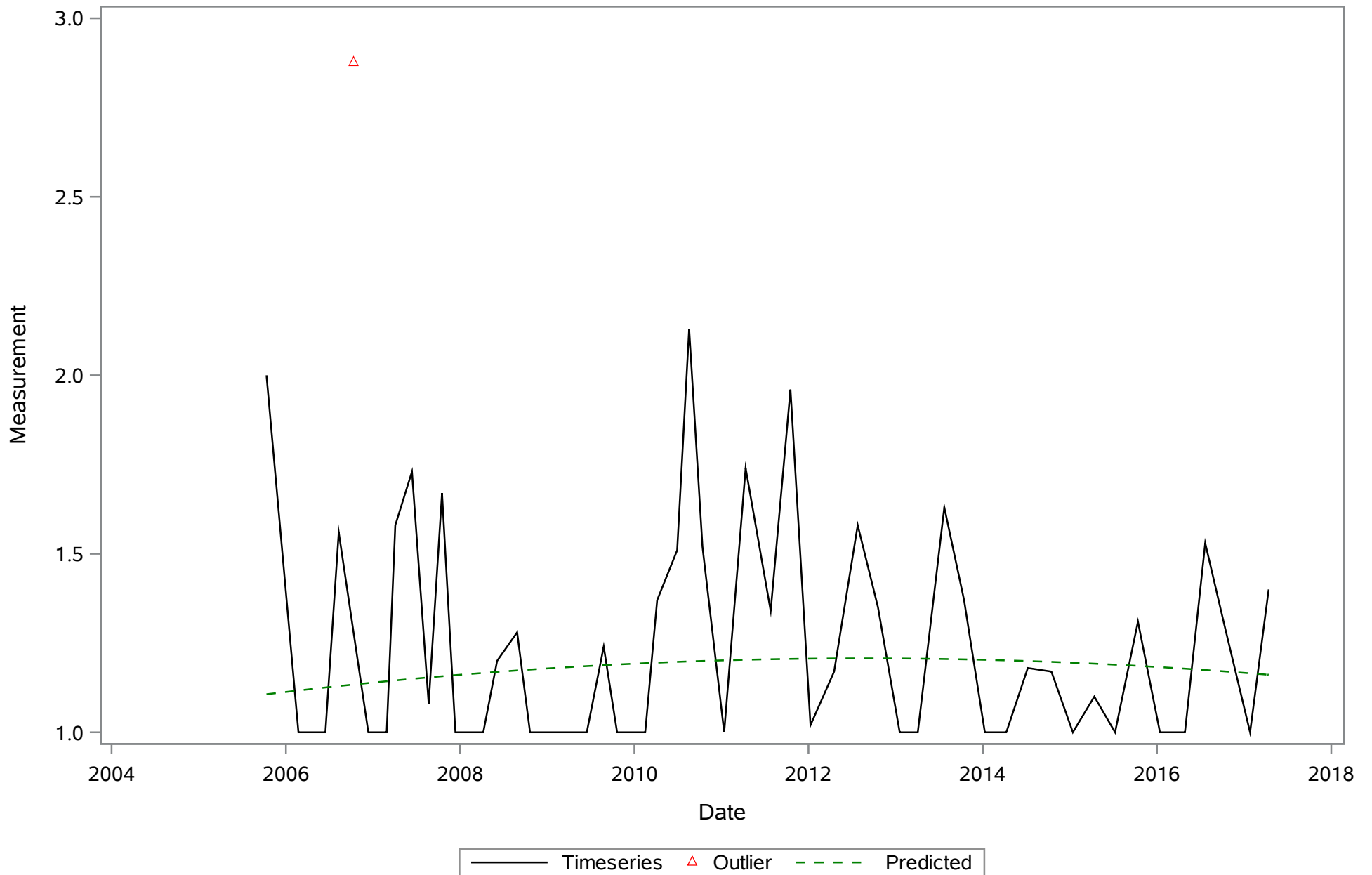
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrogen- Total (Total) mg/L



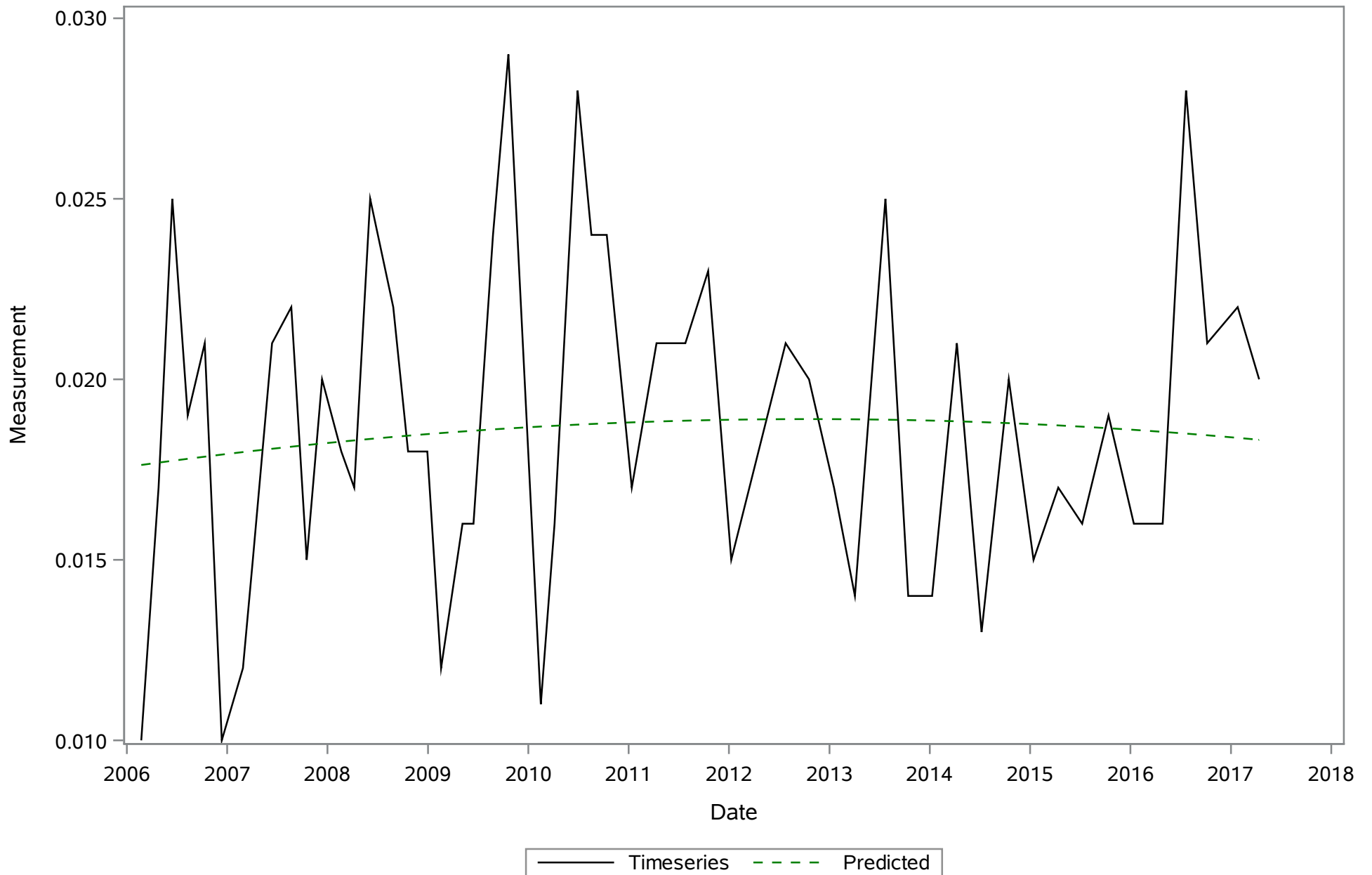
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Orthophosphate (P) (Dissolved) mg/L



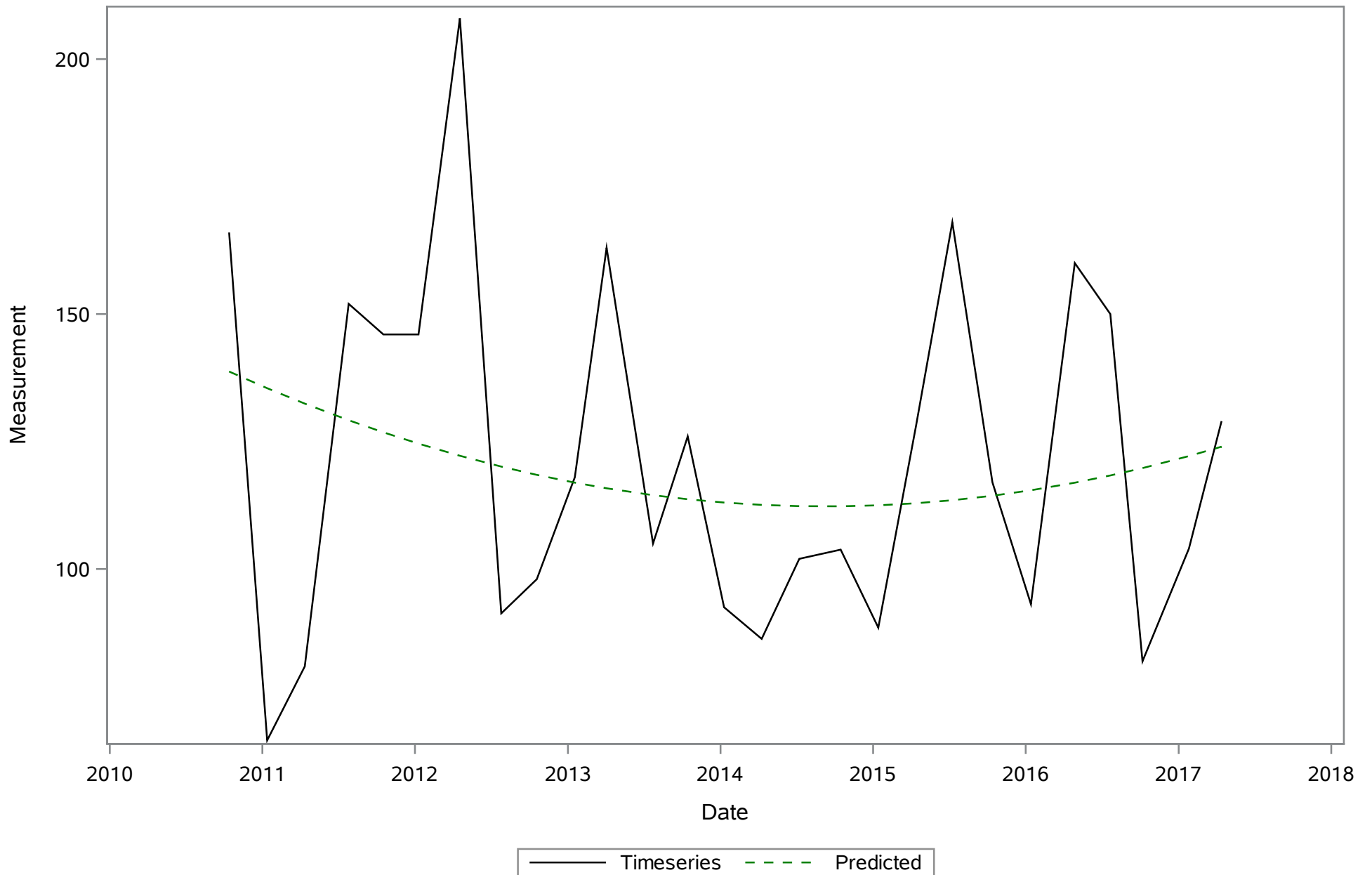
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phaeophytin (Total) ug/L



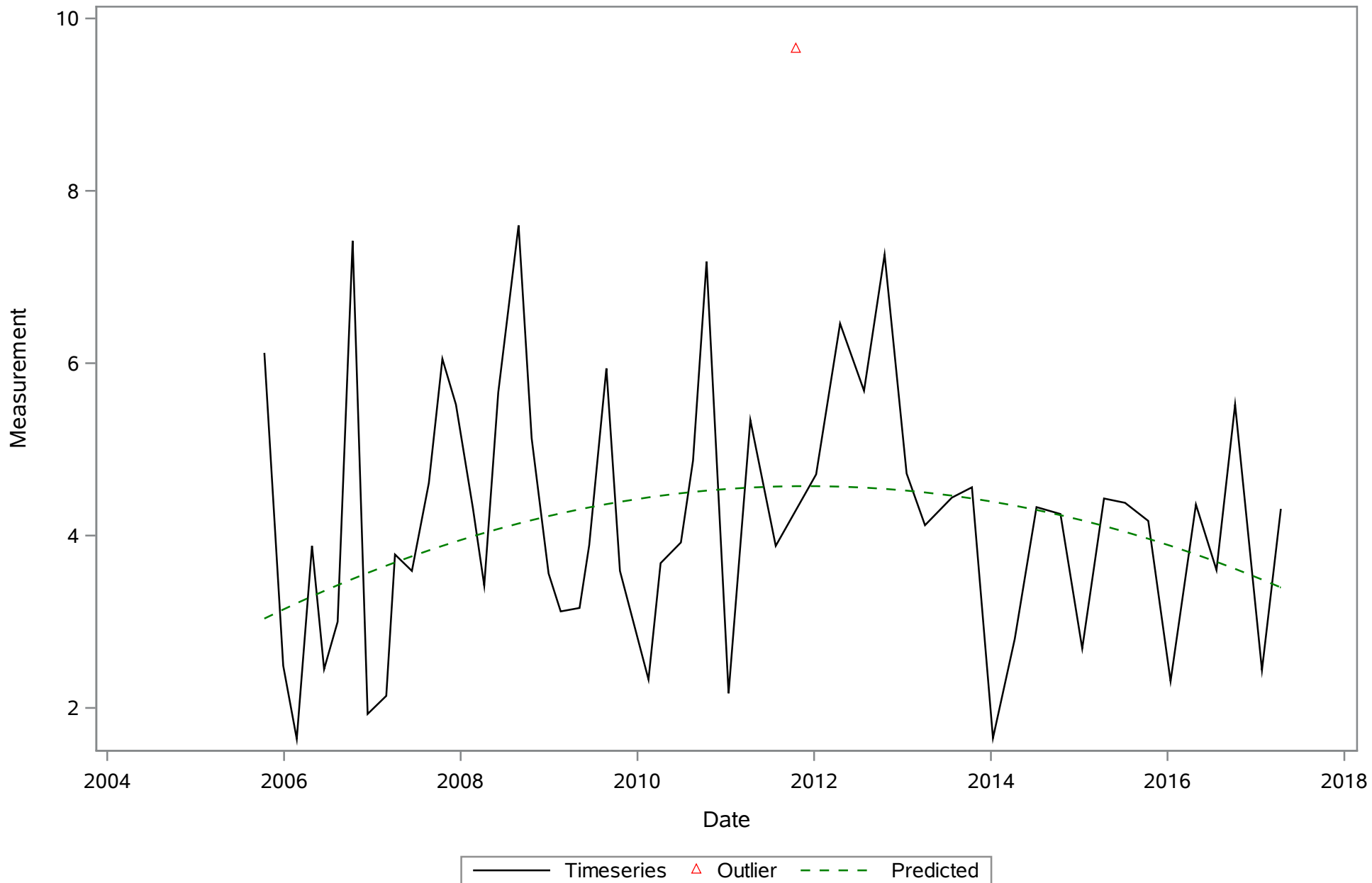
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phosphorus- Total (Total) mg/L



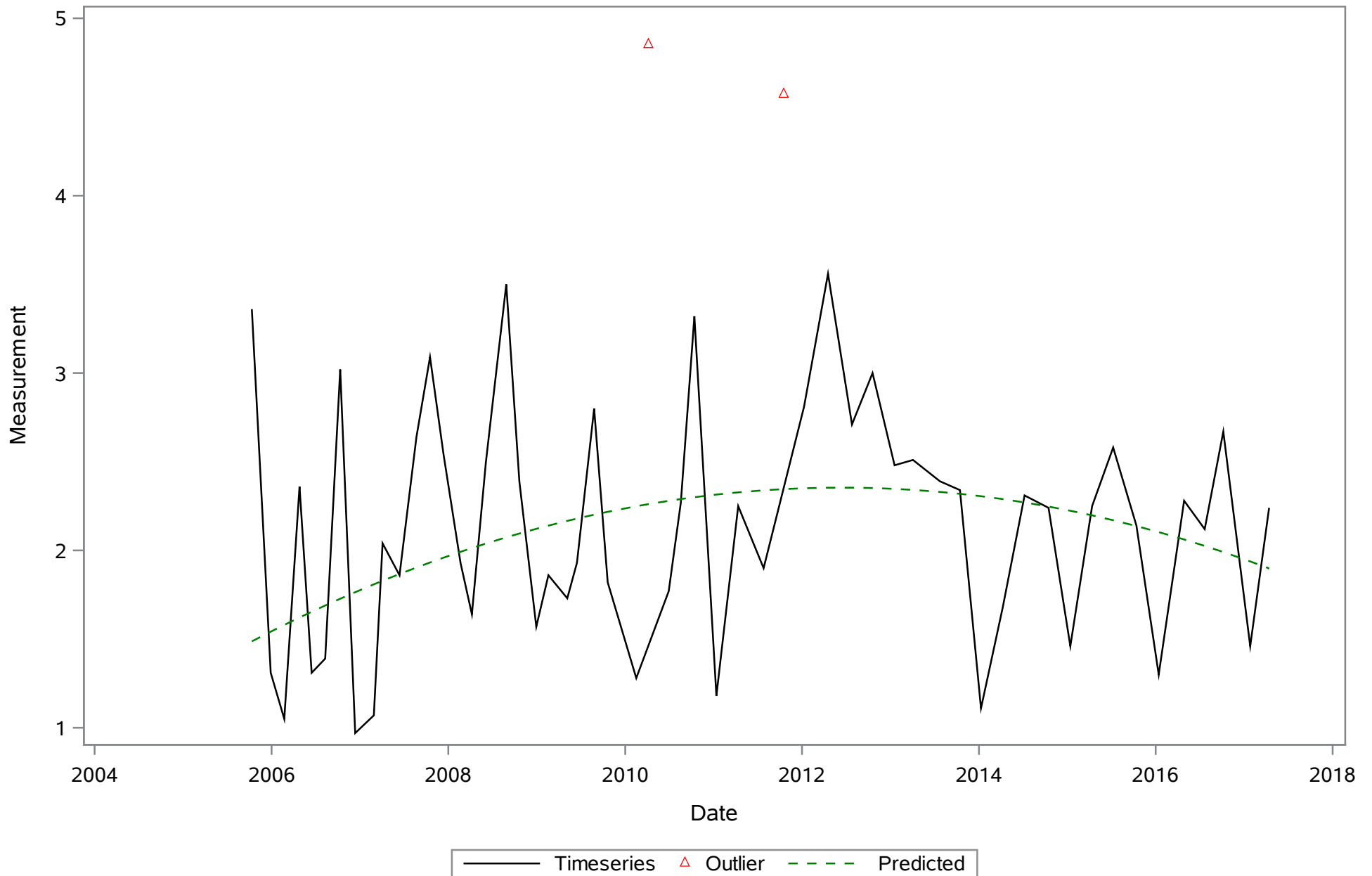
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Potassium (Dissolved) mg/L



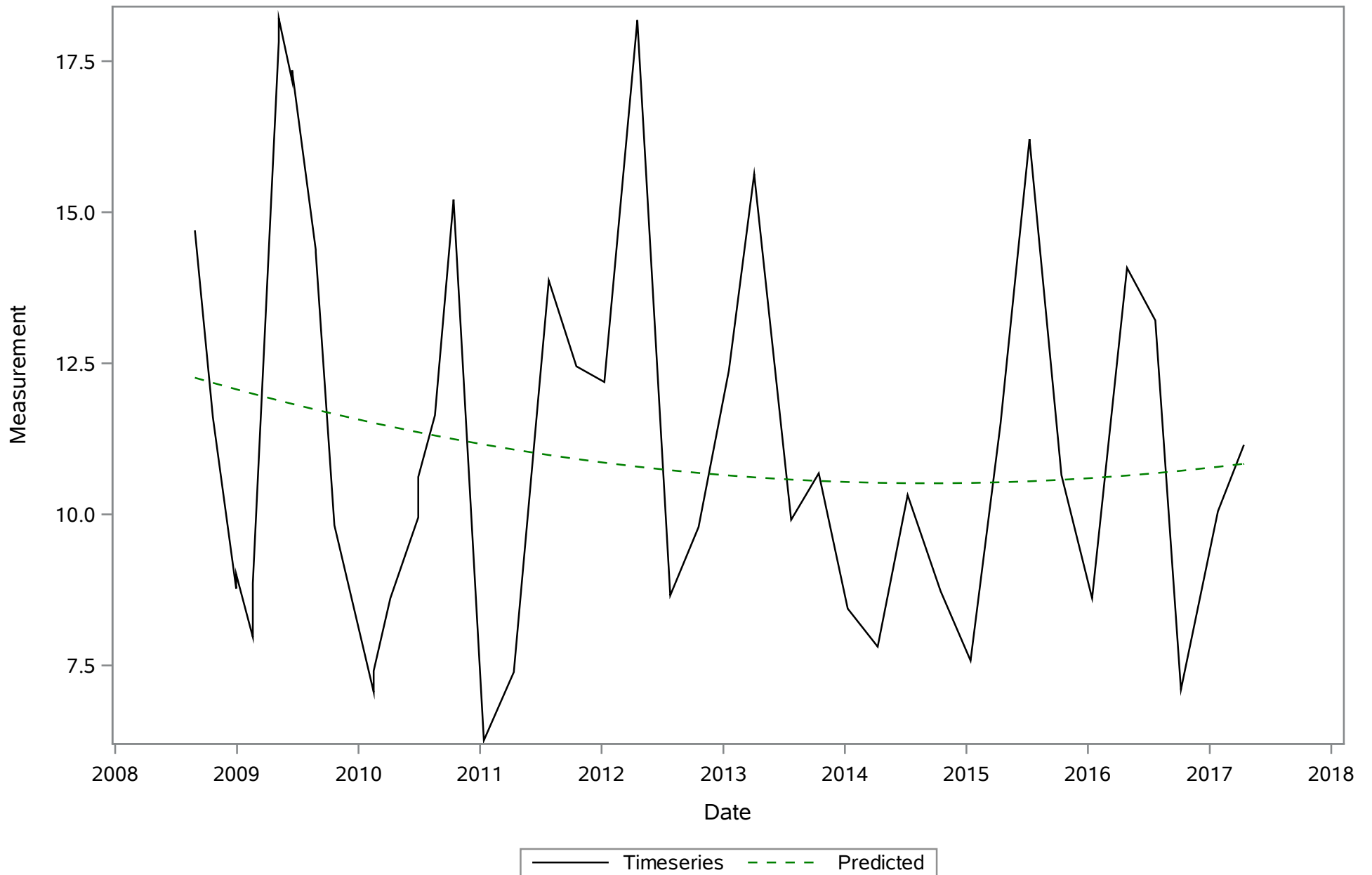
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Nonfilterable (TSS) (Total) mg/L



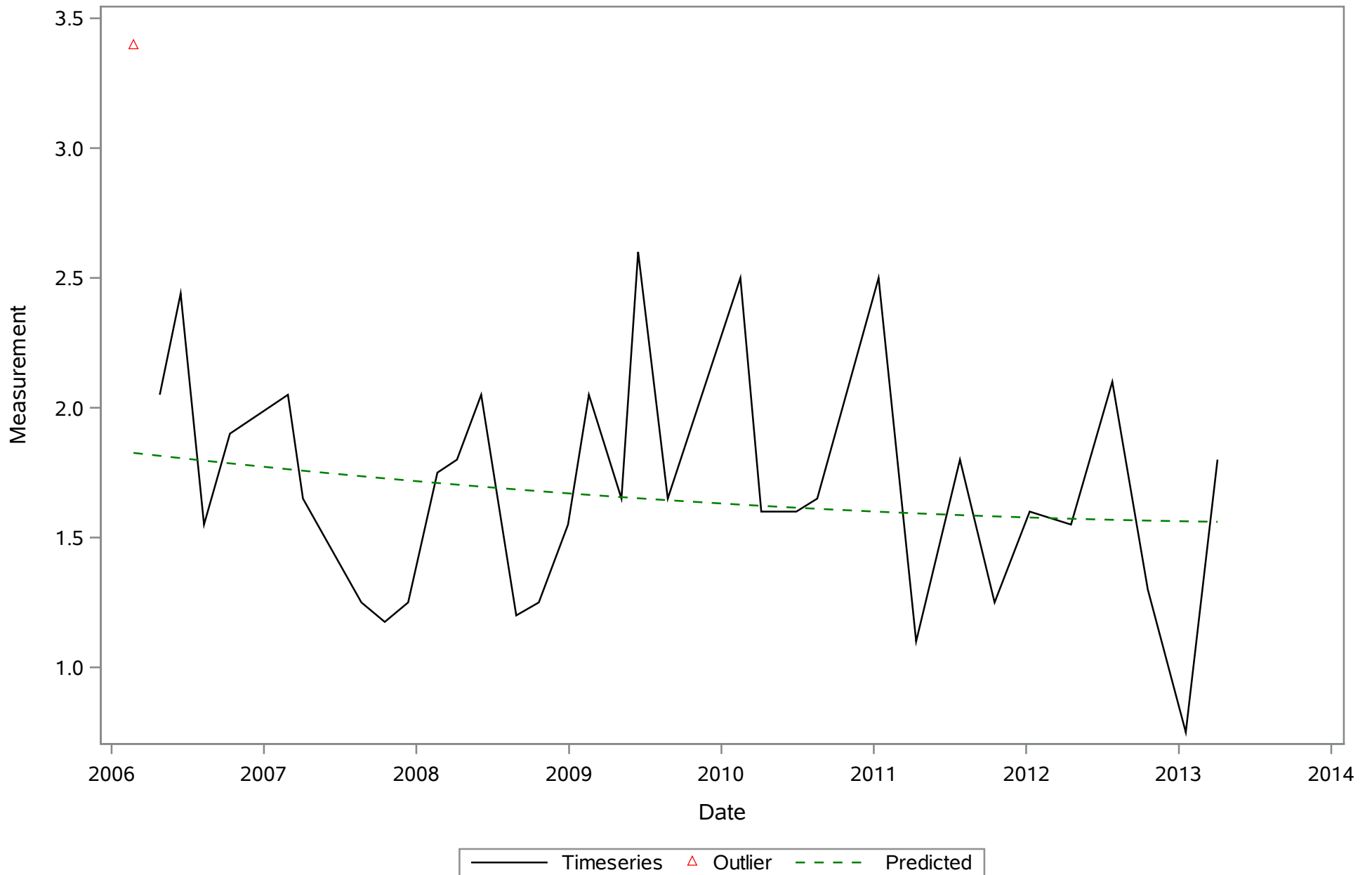
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Volatile (Total) mg/L



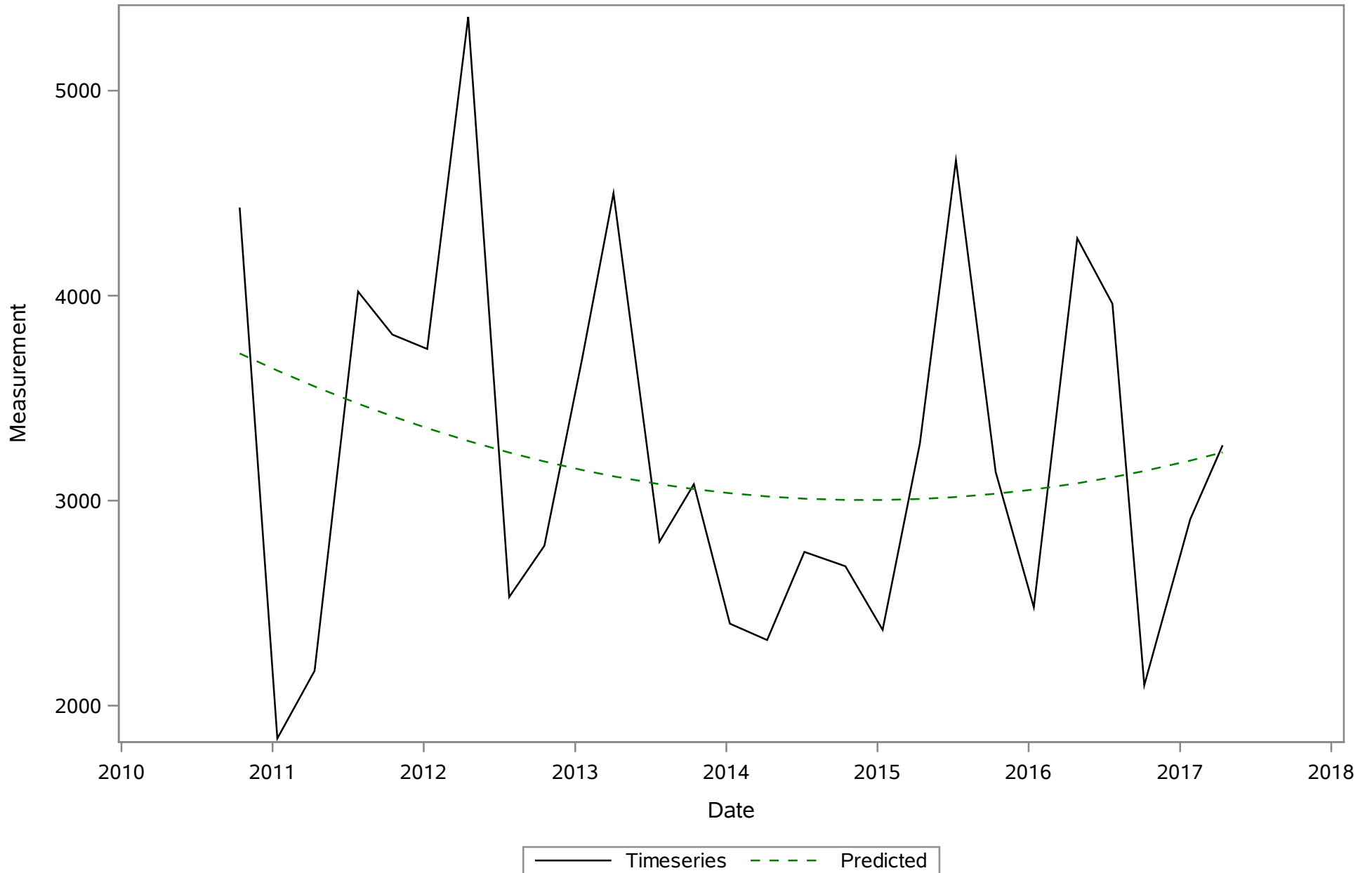
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Salinity (Total) ppt



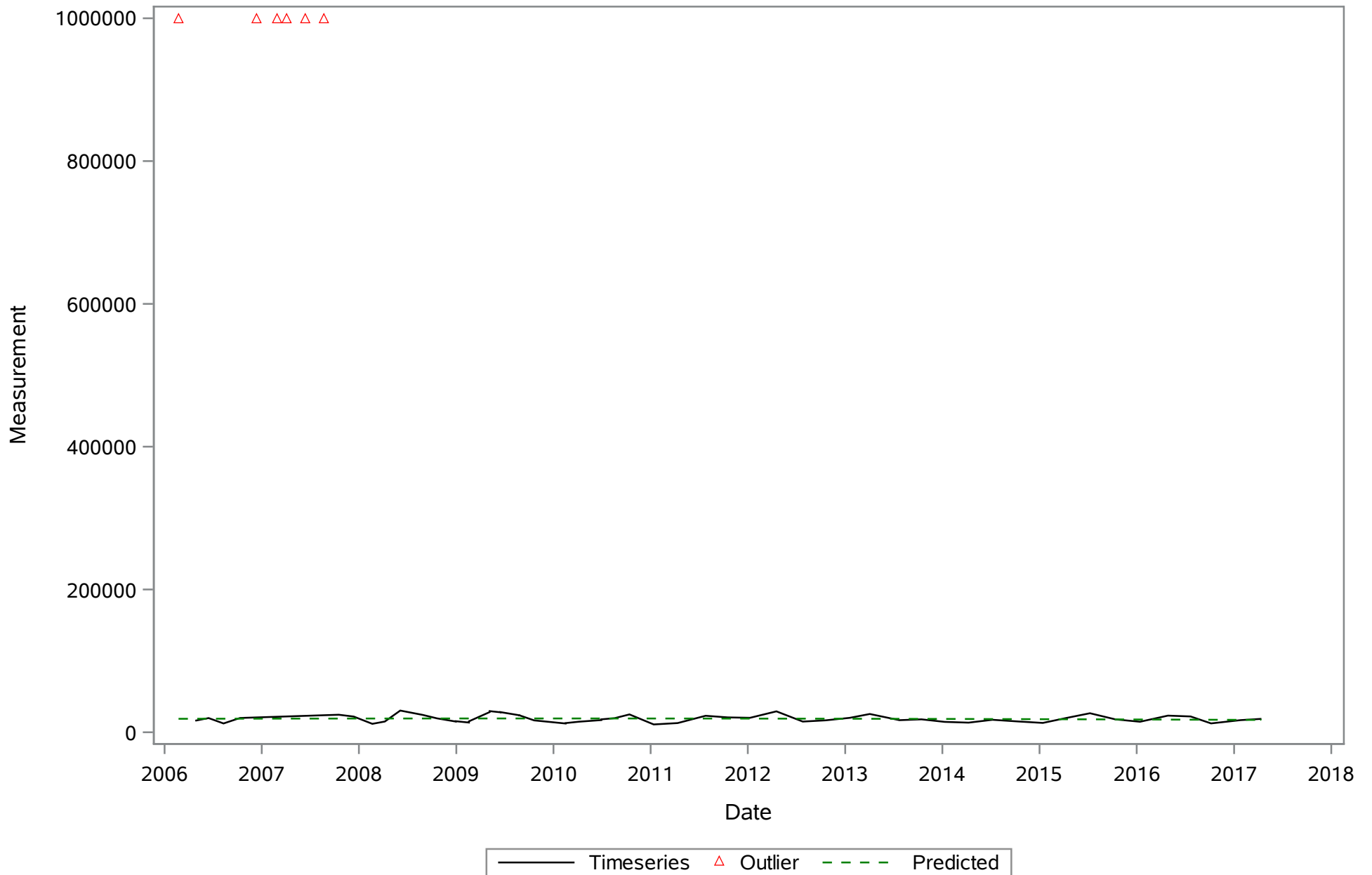
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Secchi-vertical (Total) Meters



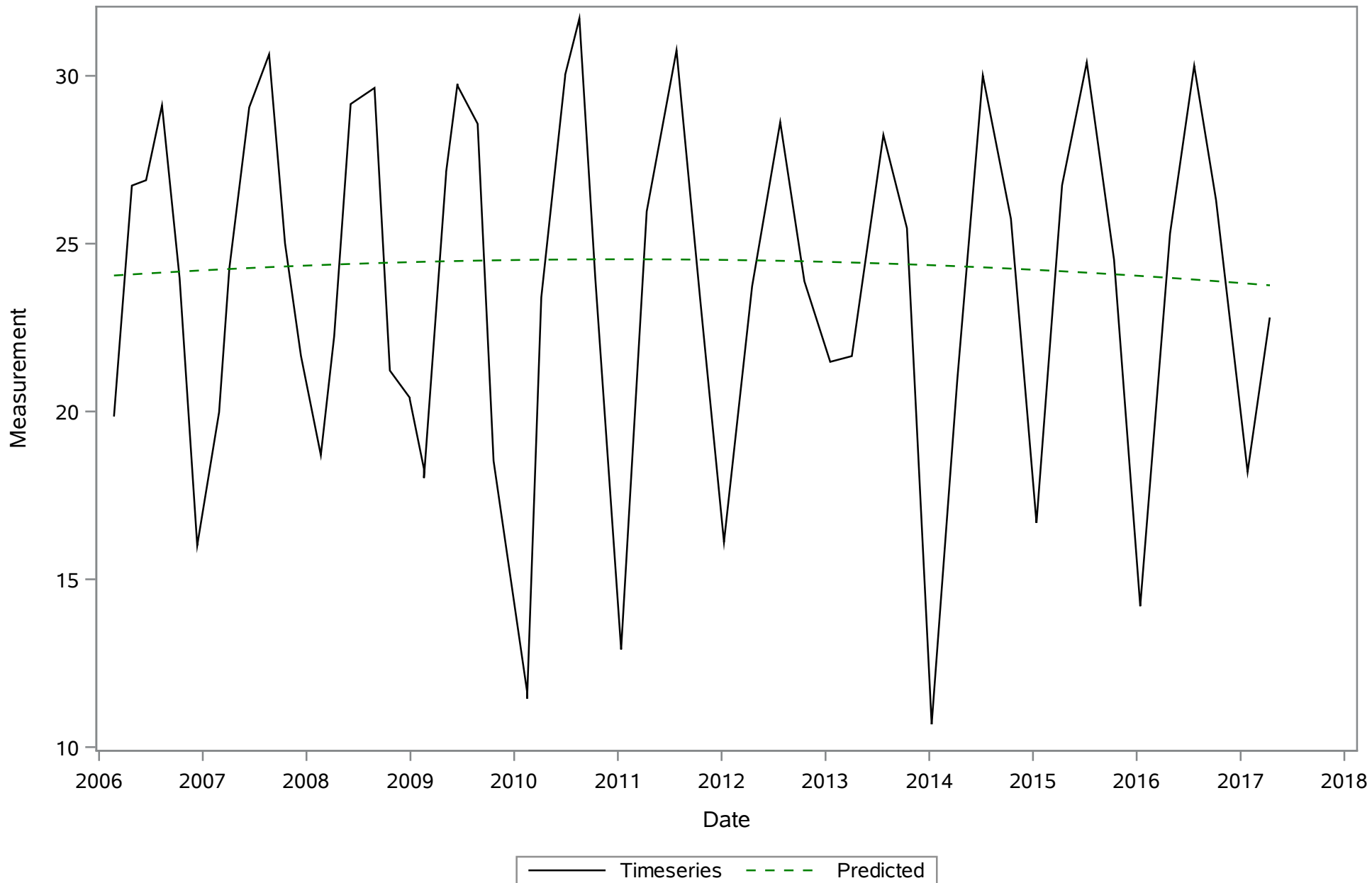
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Sodium (Dissolved) mg/L



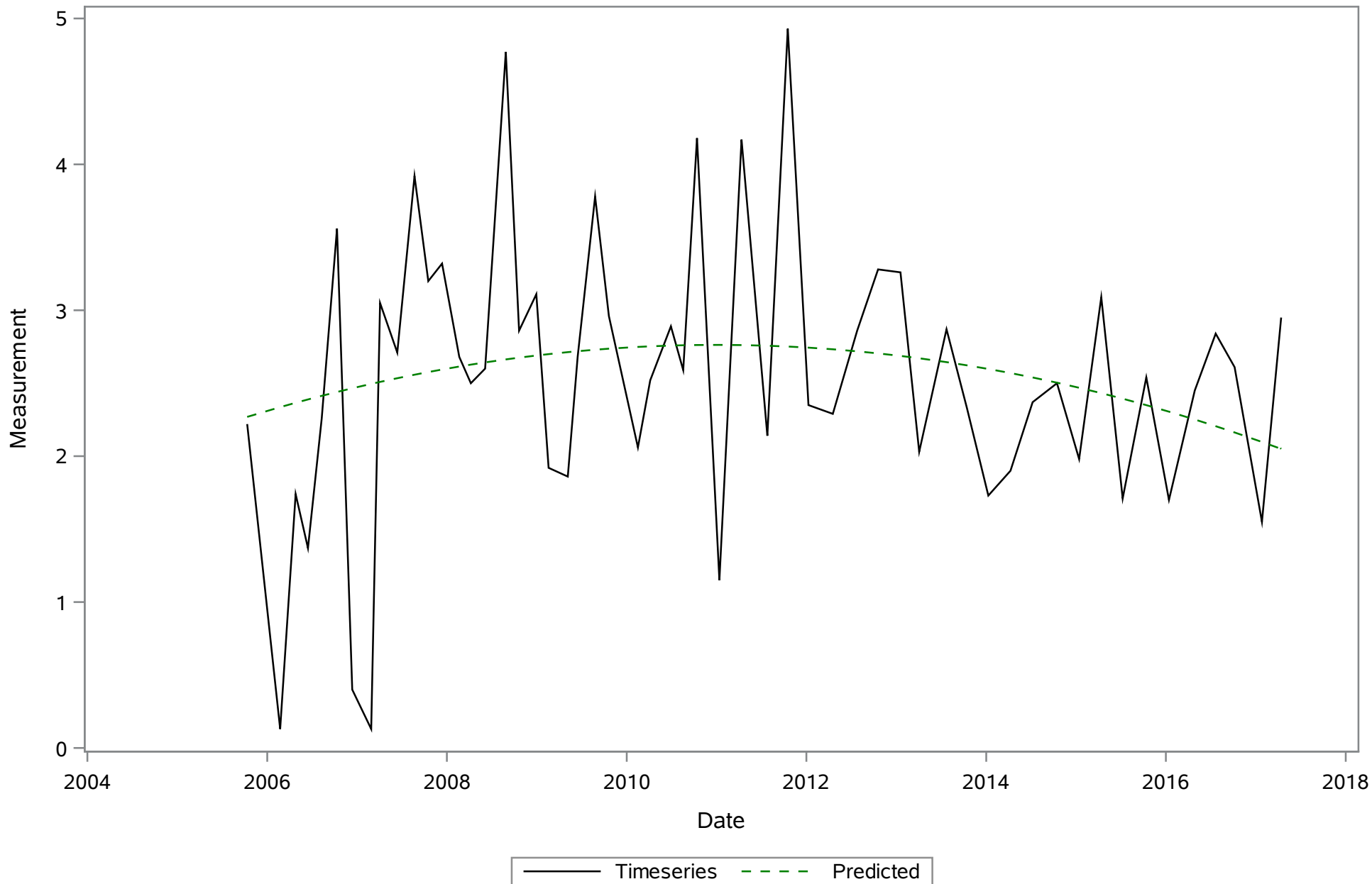
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Specific Conductance (Total) uS/cm



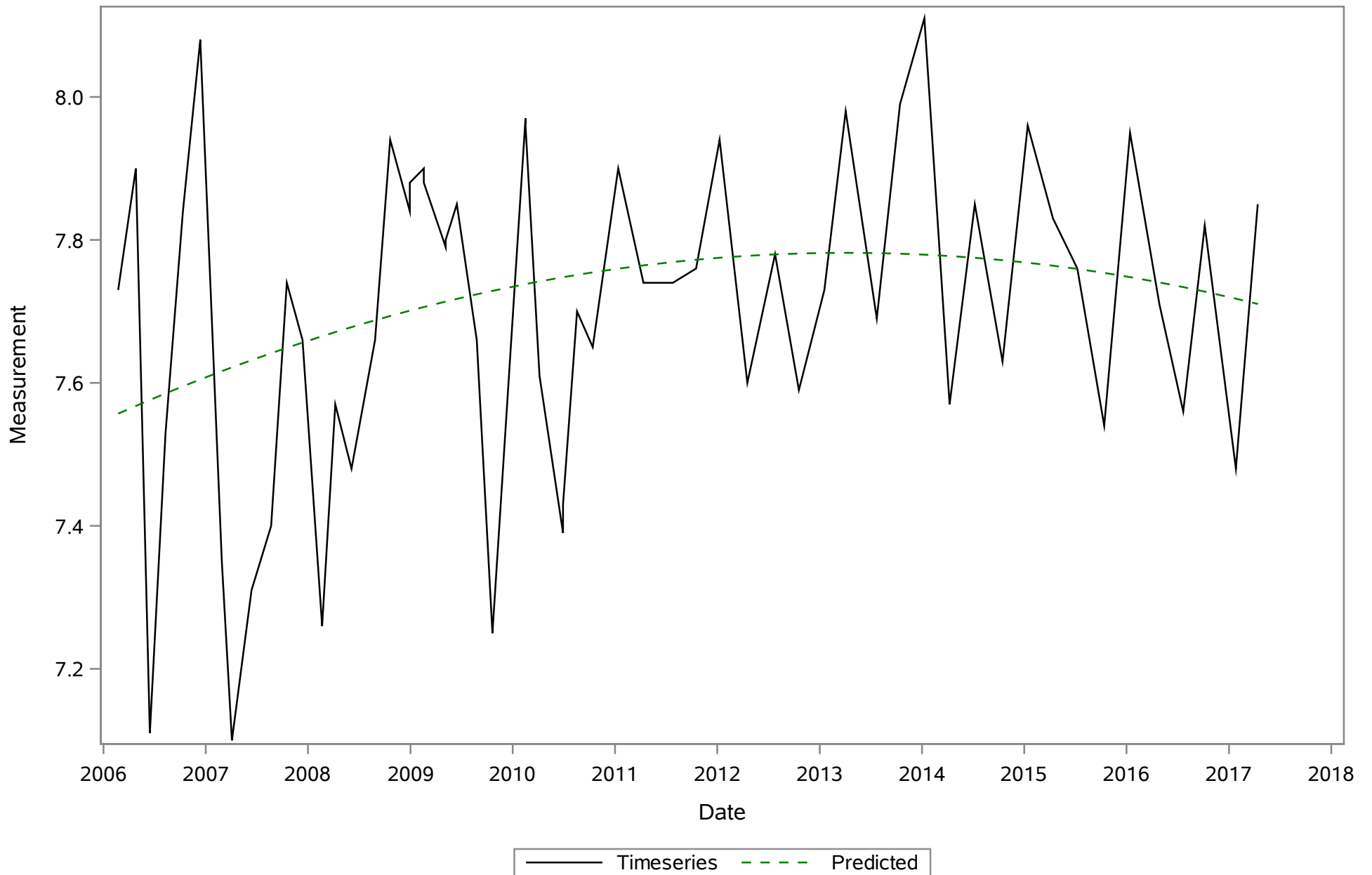
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Temperature (Total) Deg. C



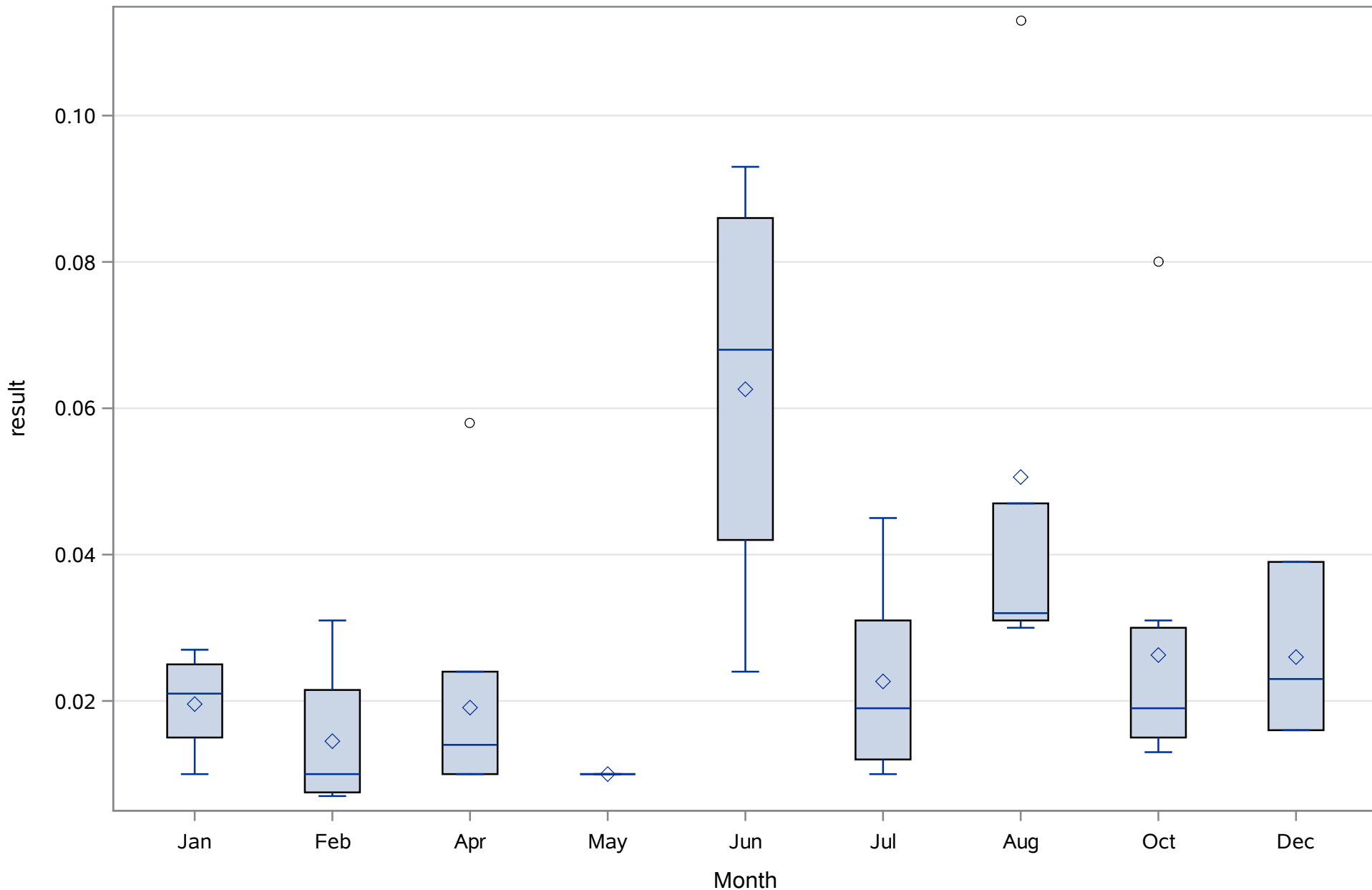
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Turbidity (Total) NTU



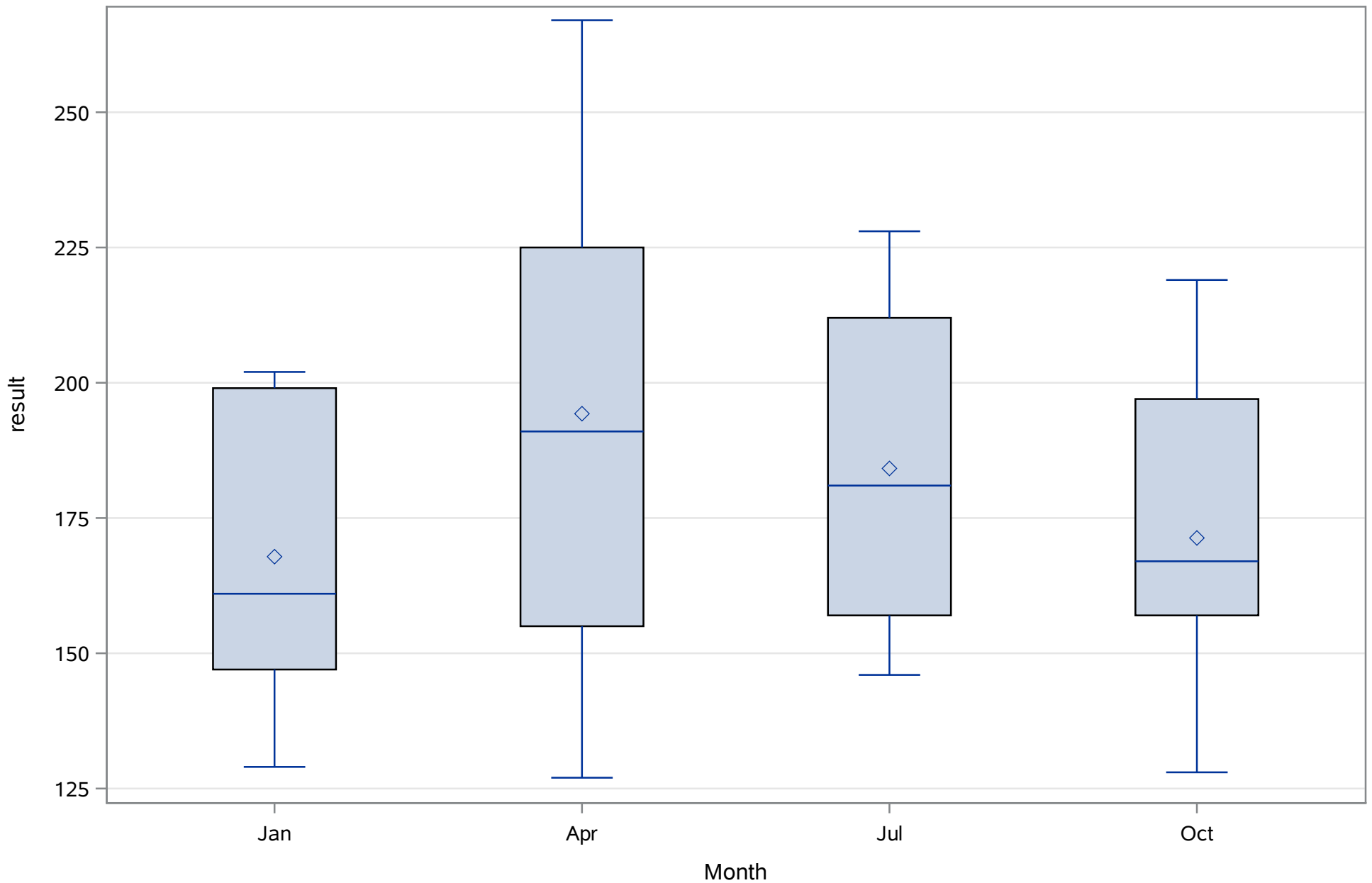
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
pH (Total) SU



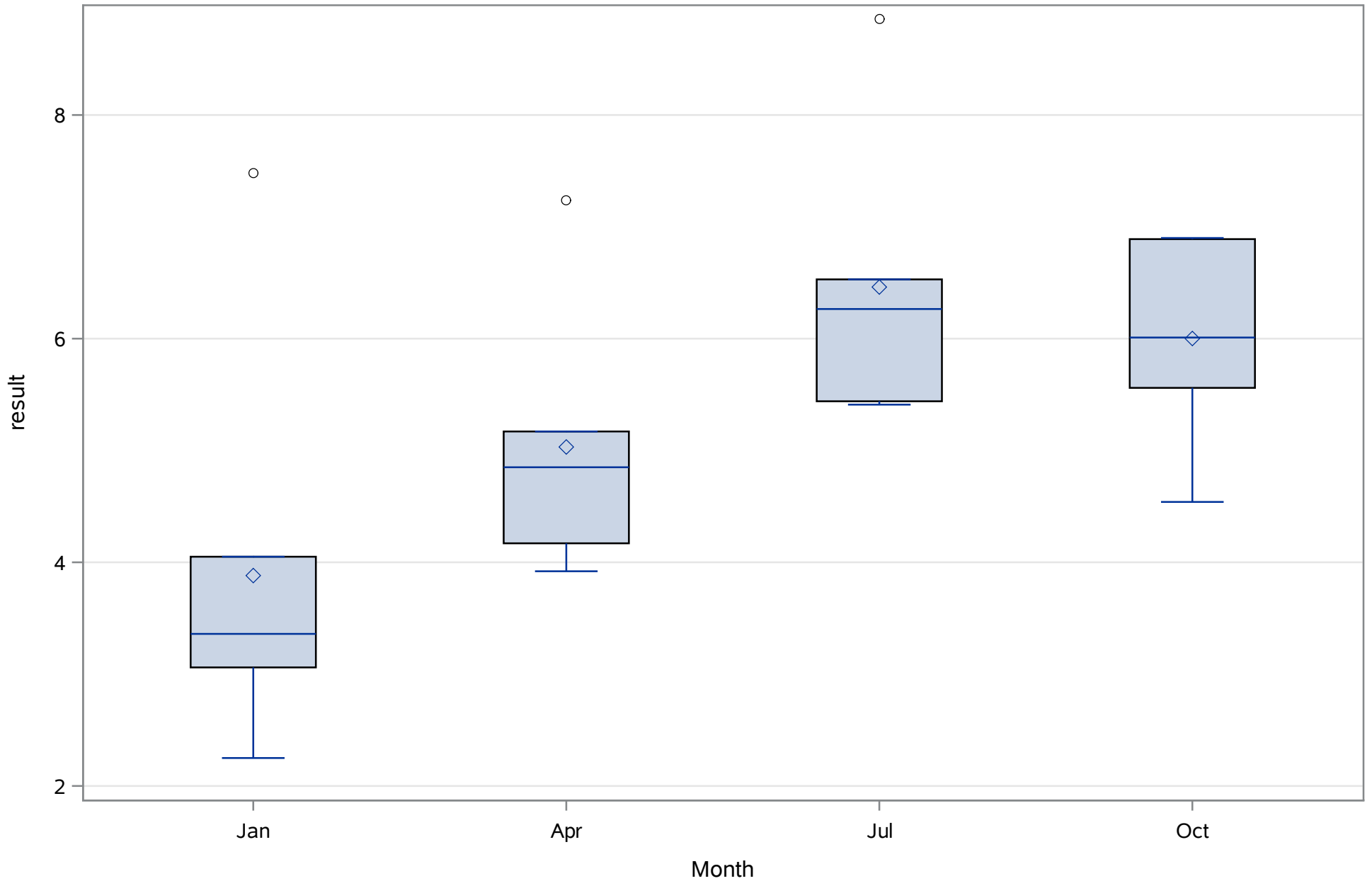
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Ammonia (N) (Total) mg/L



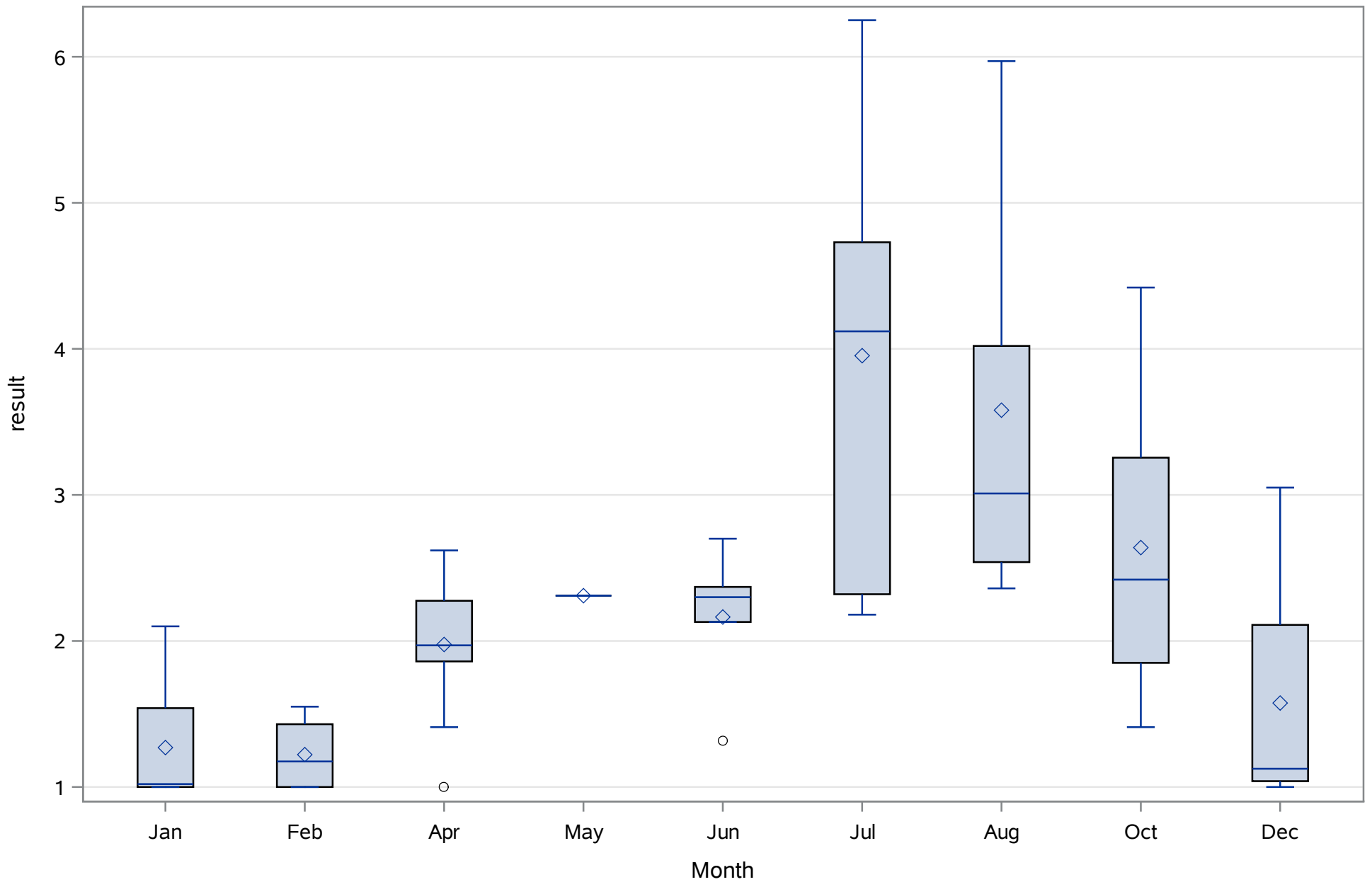
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Calcium (Dissolved) mg/L



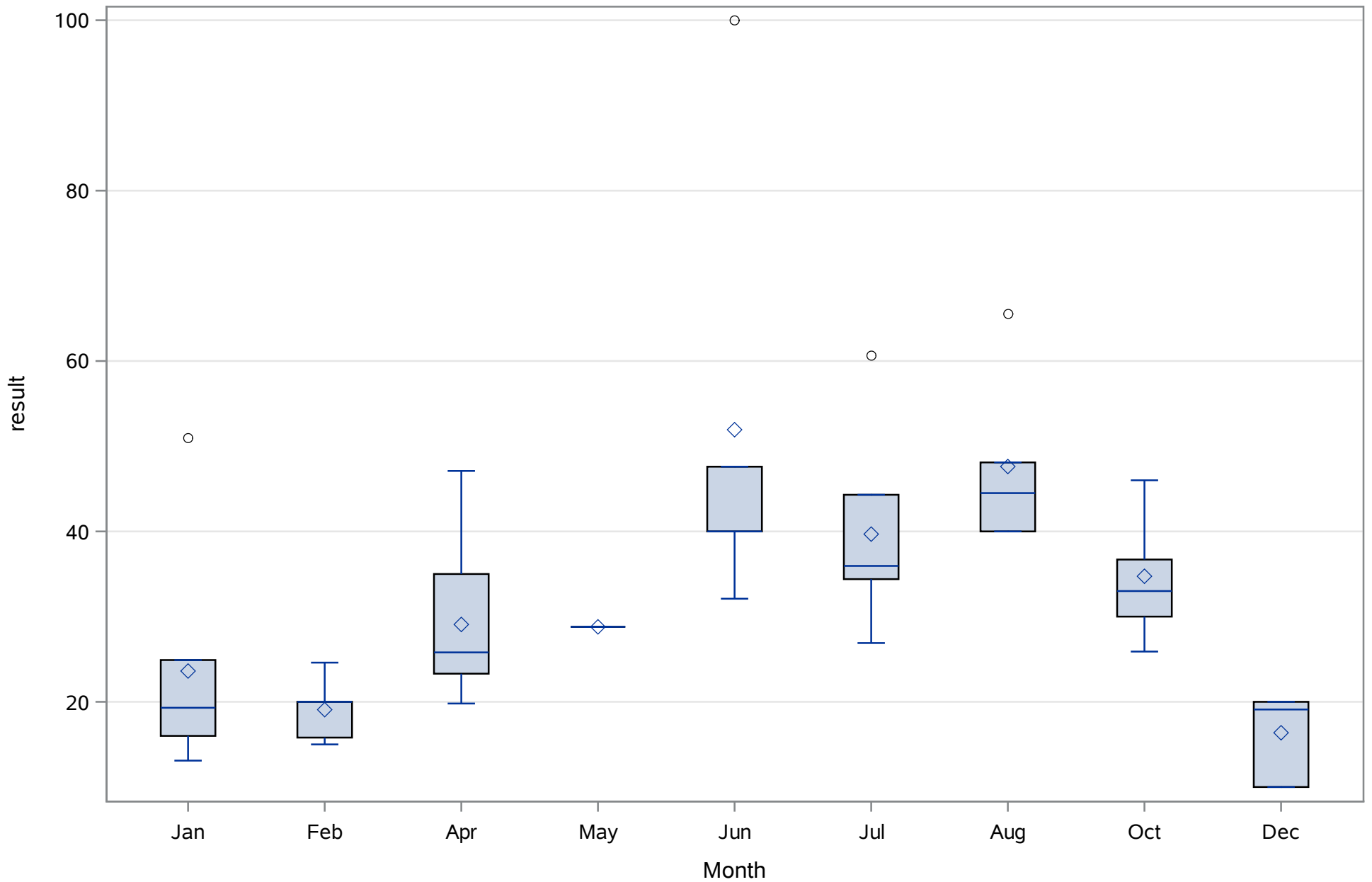
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Carbon- Total Organic (Total) mg/L



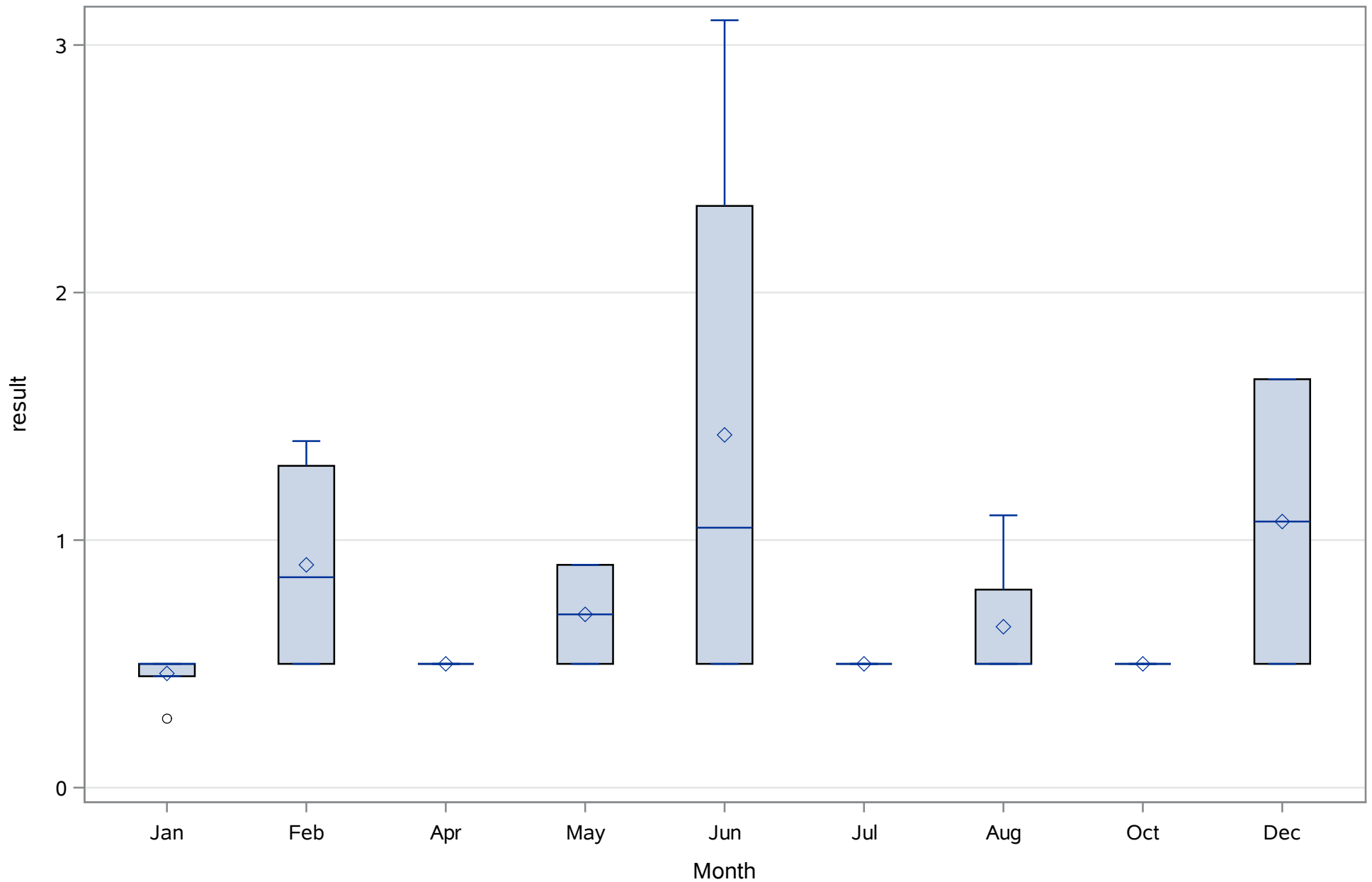
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Chlorophyll a (Total) ug/L



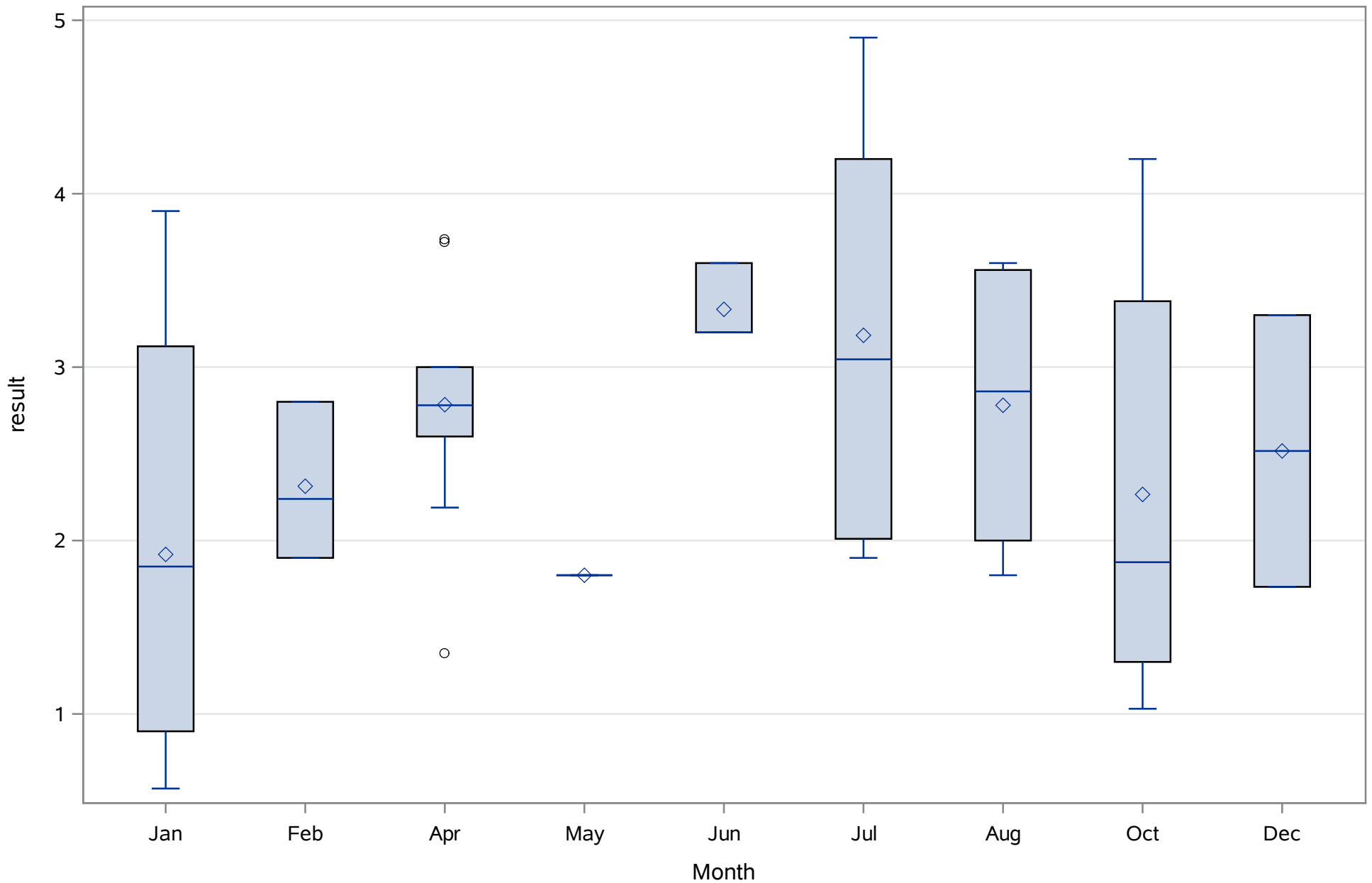
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Color (Dissolved) PCU



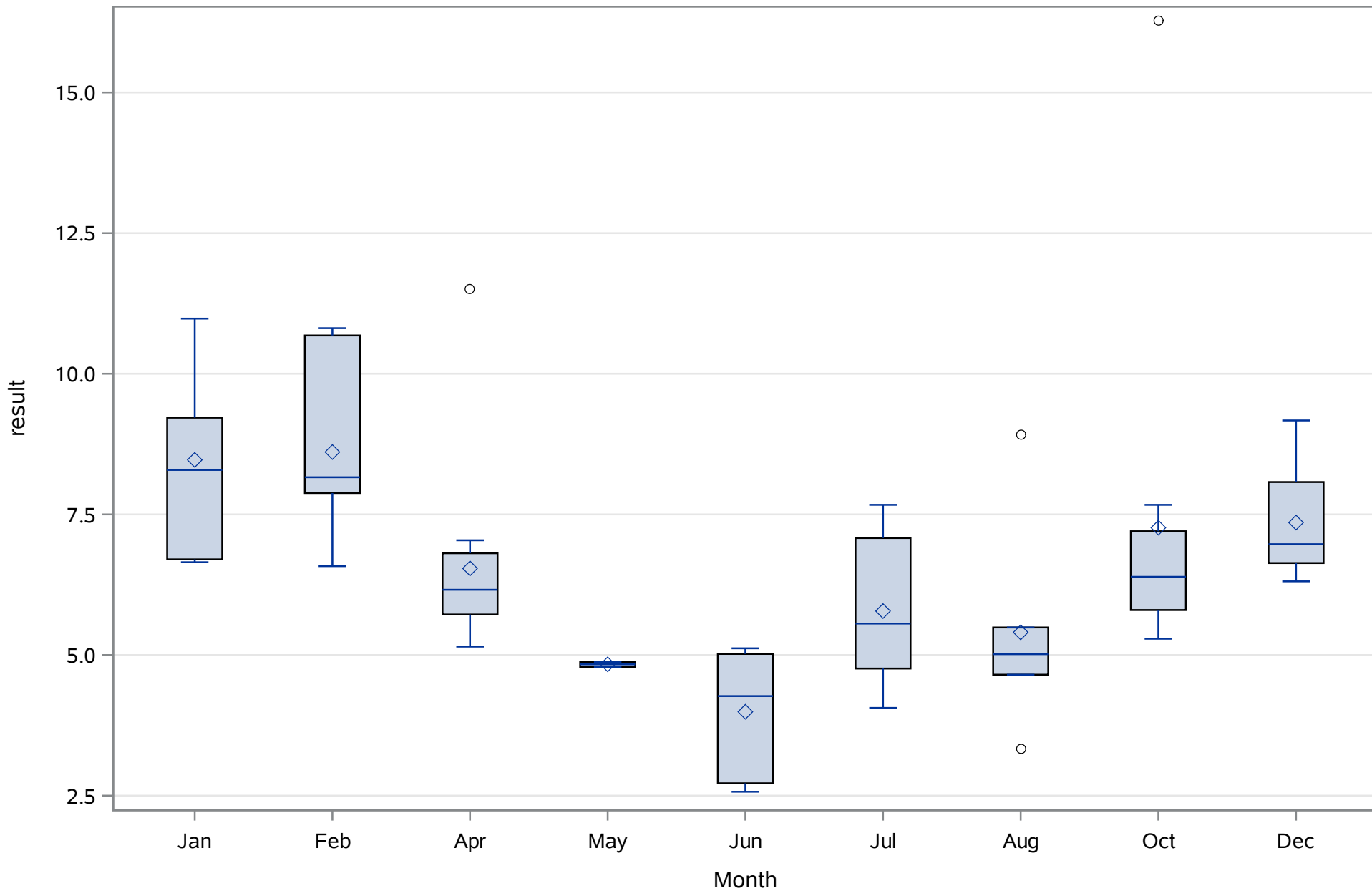
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth (Total) Meters



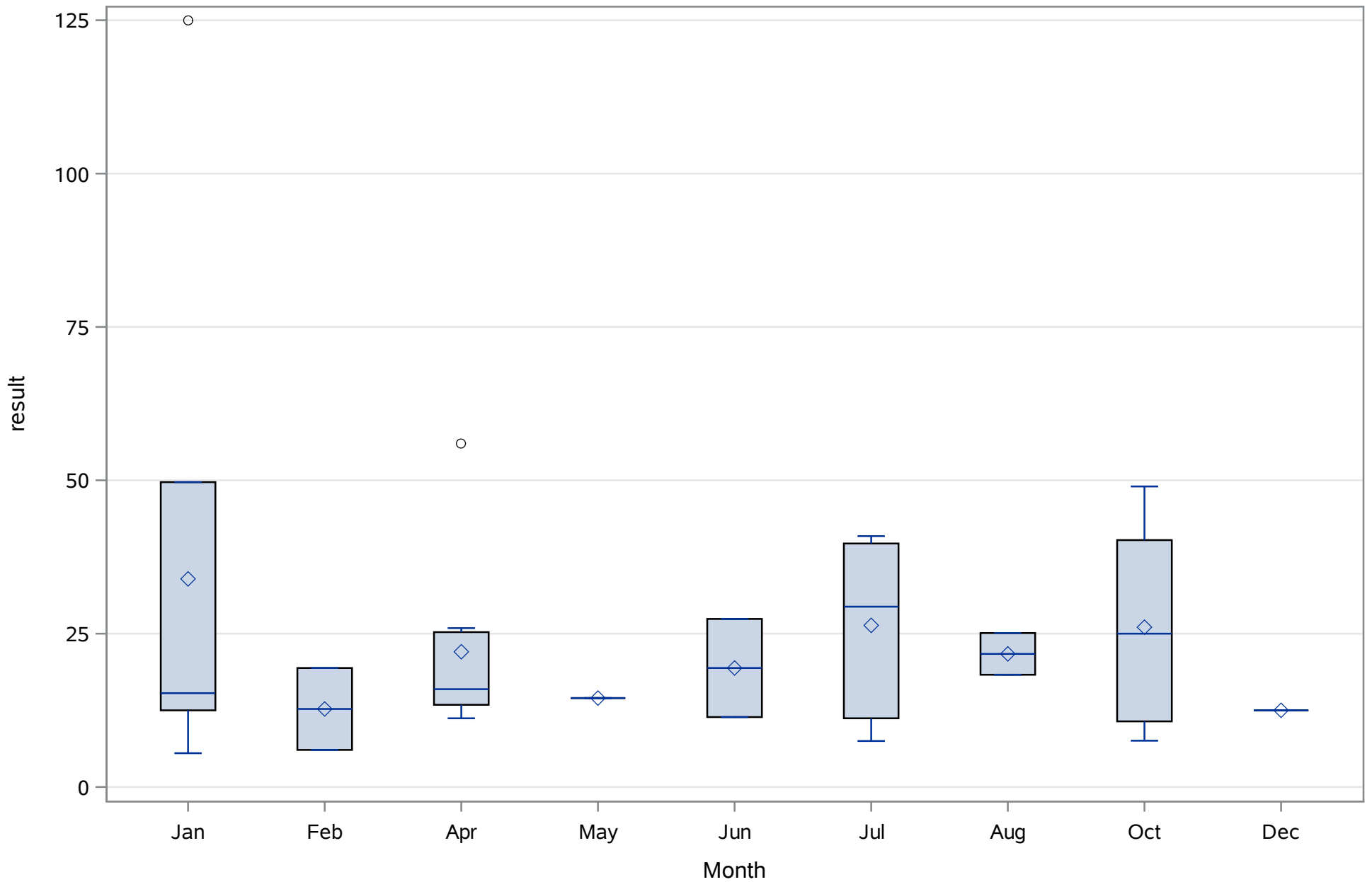
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Depth, bottom (Total) Meters



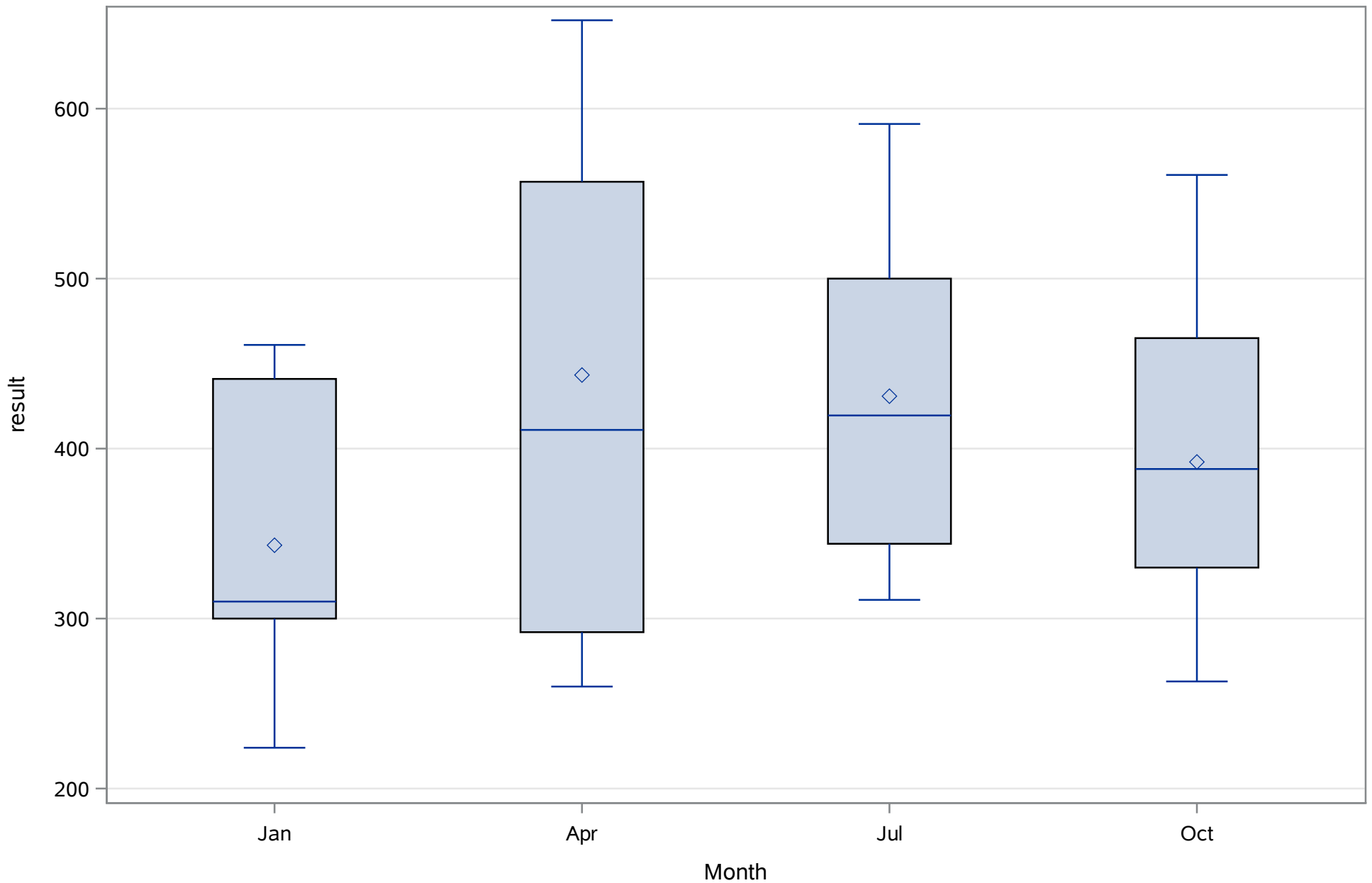
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Dissolved Oxygen (Total) mg/L



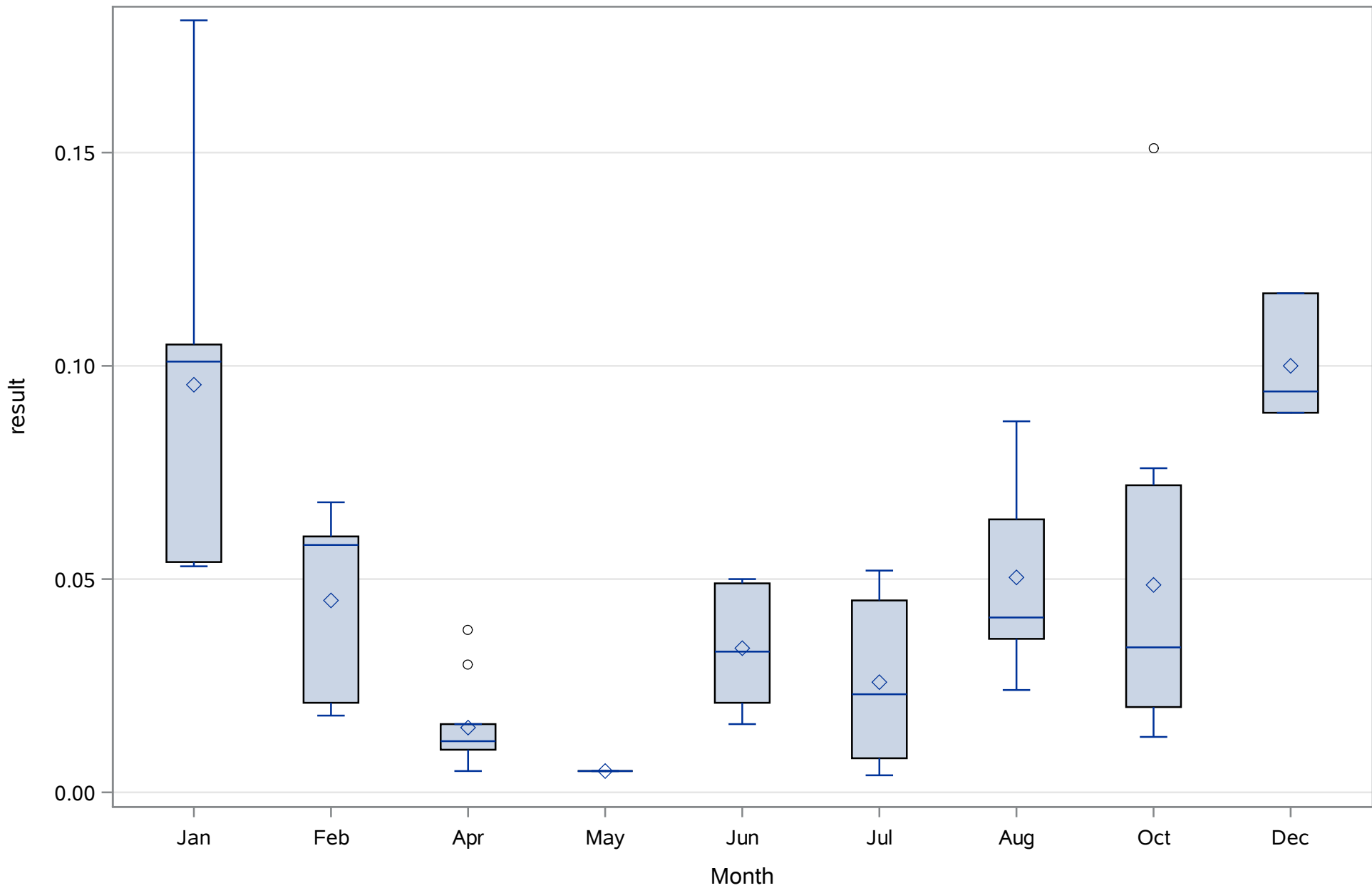
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Iron (Dissolved) ug/L



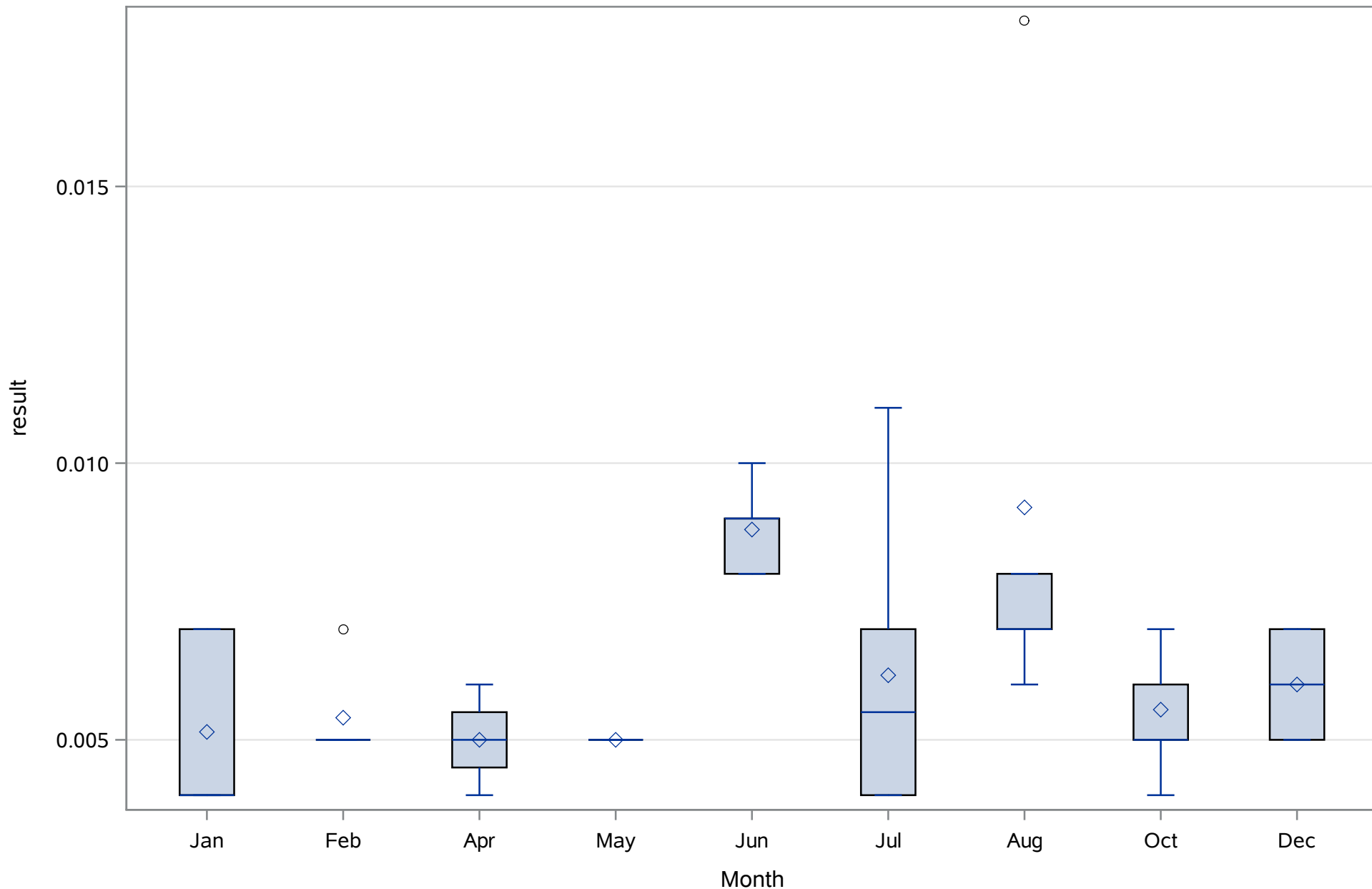
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Magnesium (Dissolved) mg/L



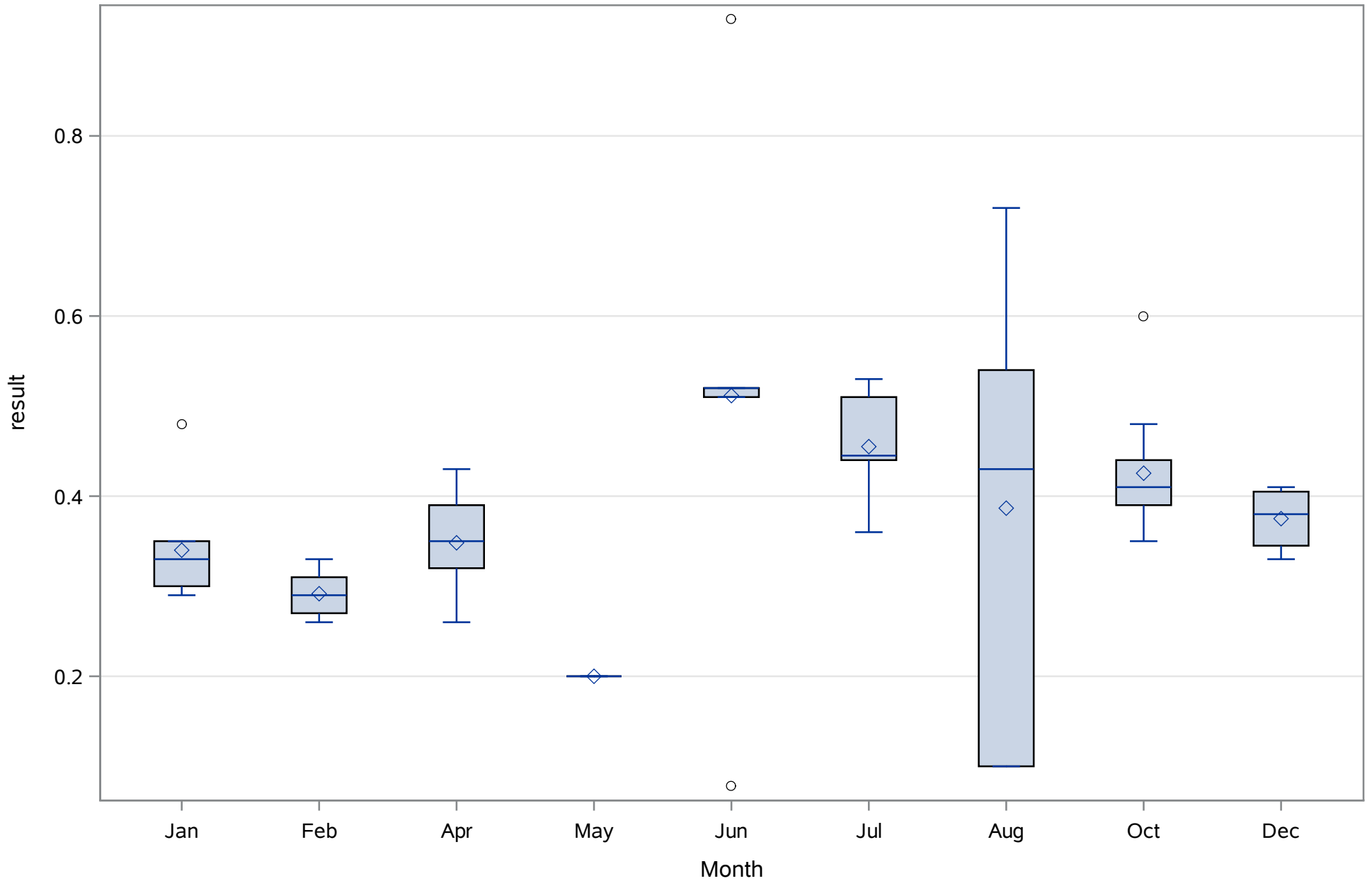
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrate-Nitrite (N) (Total) mg/L



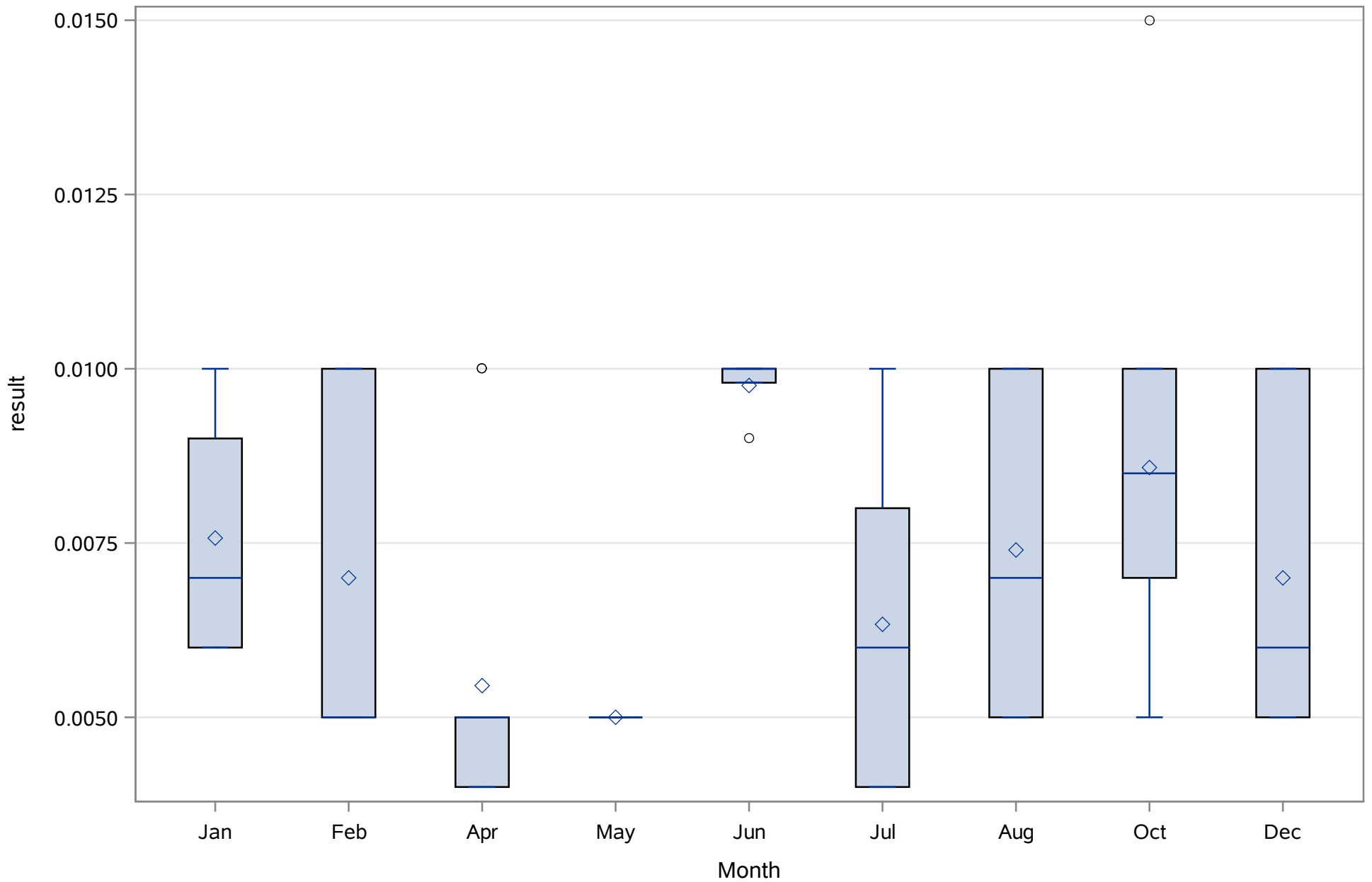
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrite (N) (Total) mg/L



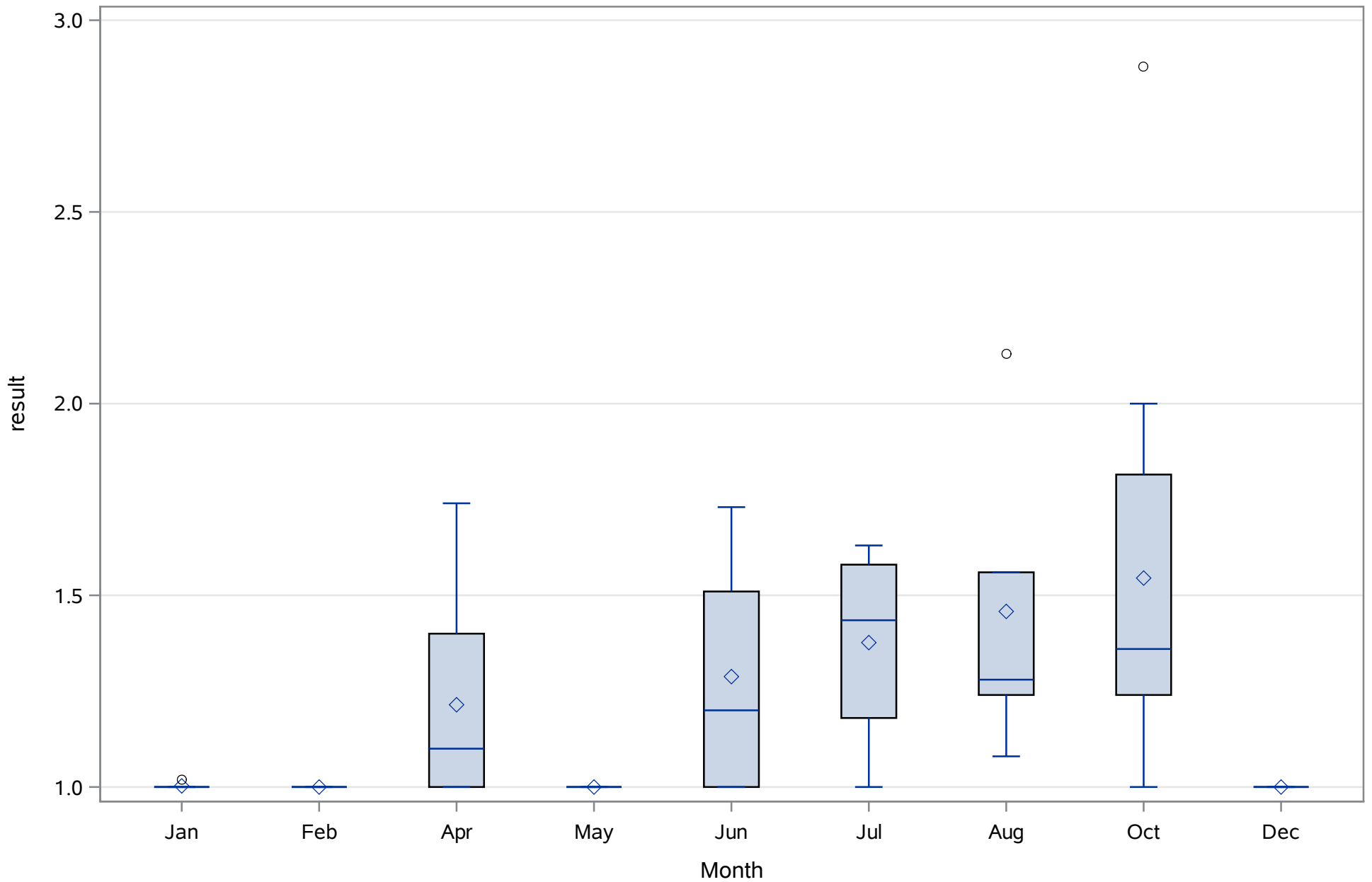
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Nitrogen- Total (Total) mg/L



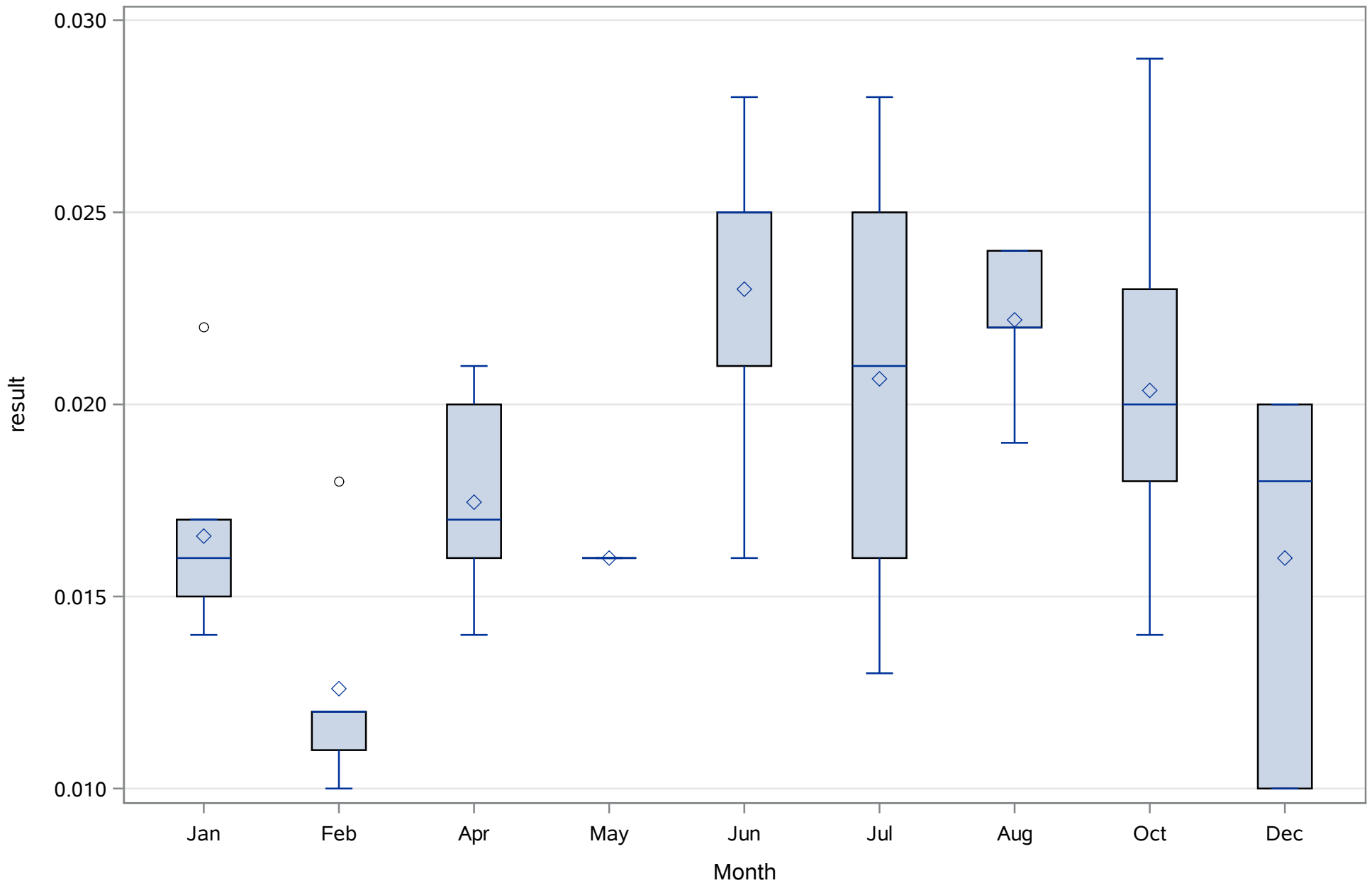
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Orthophosphate (P) (Dissolved) mg/L



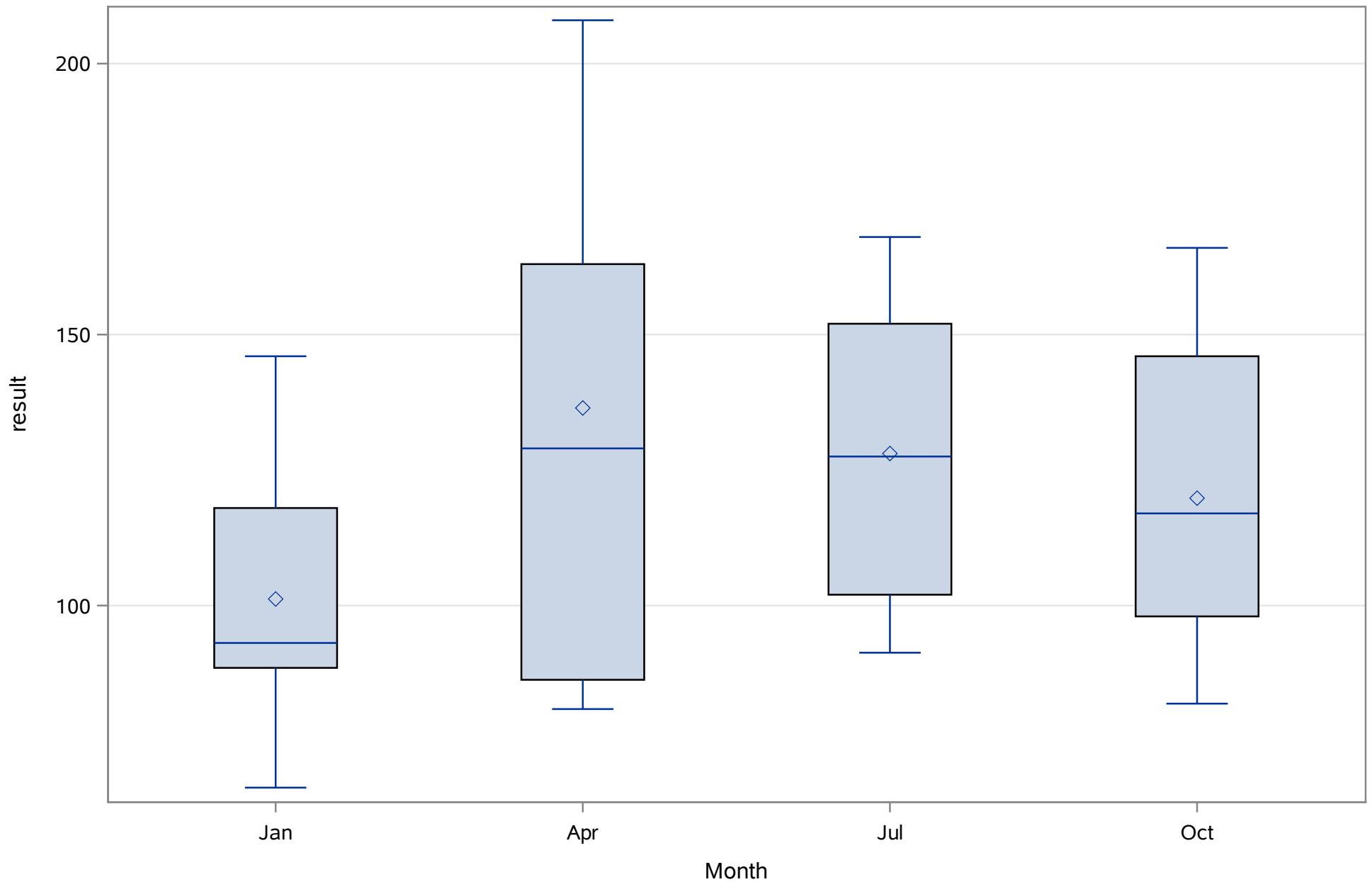
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phaeophytin (Total) ug/L



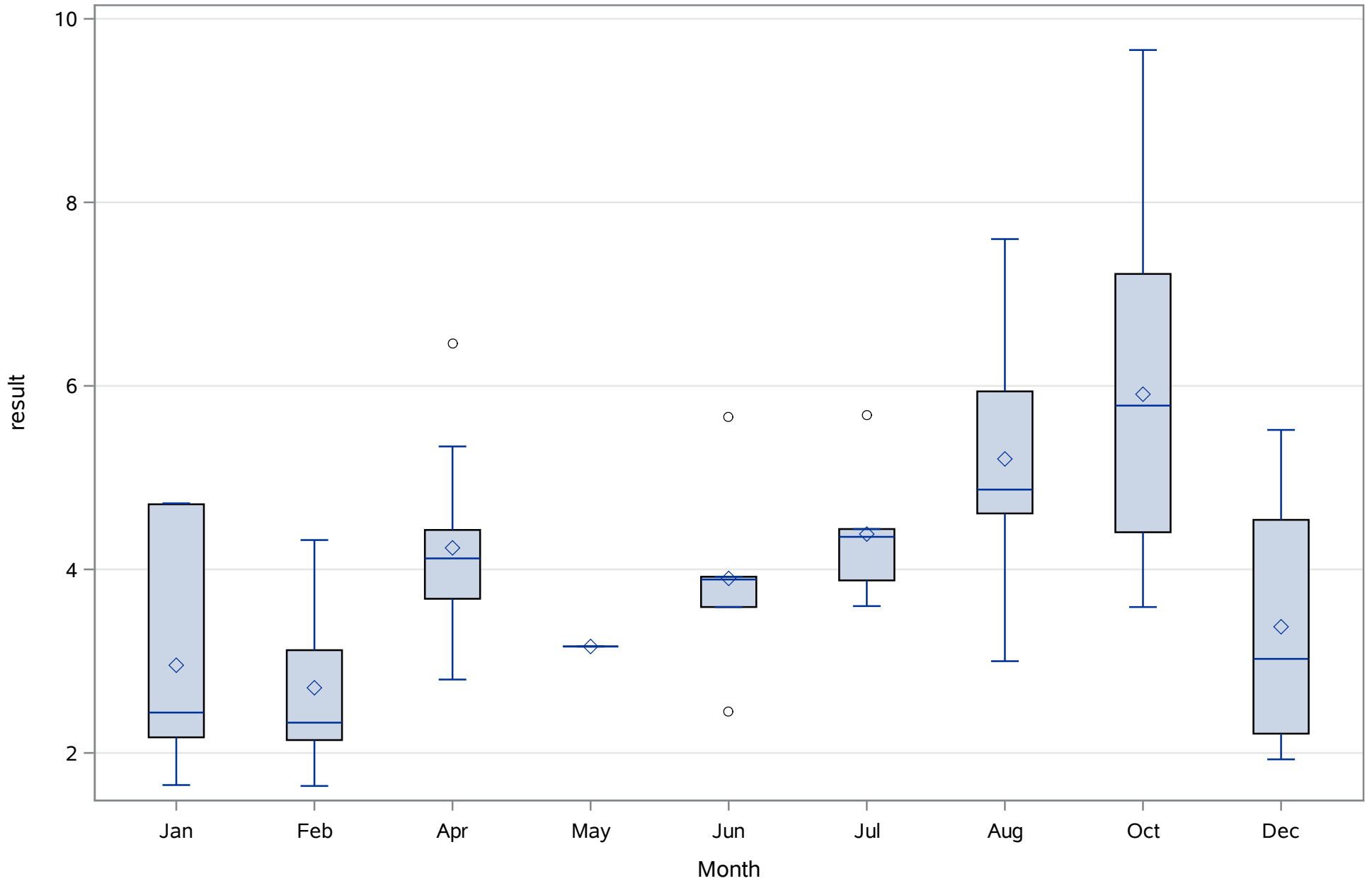
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Phosphorus- Total (Total) mg/L



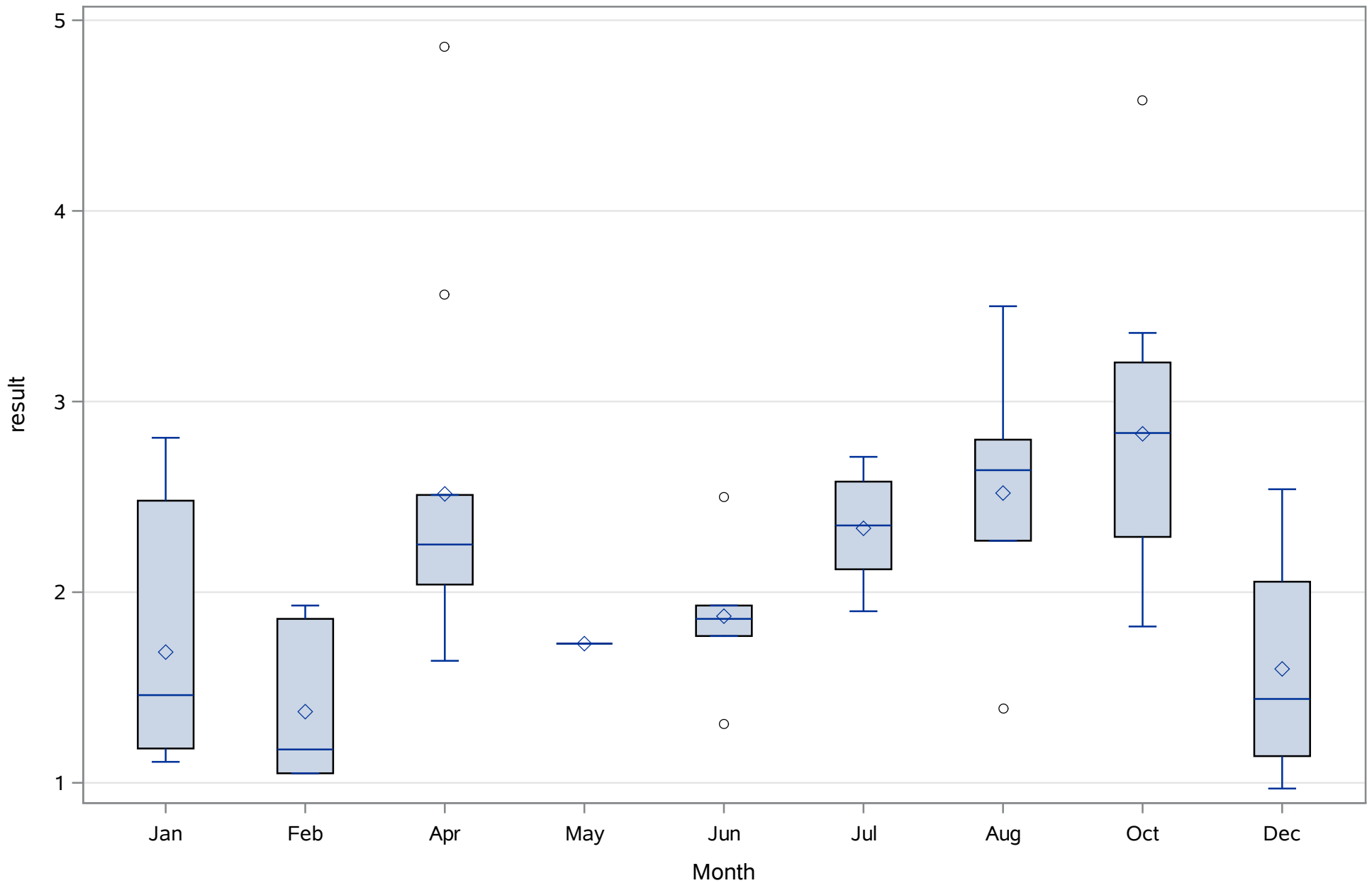
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Potassium (Dissolved) mg/L



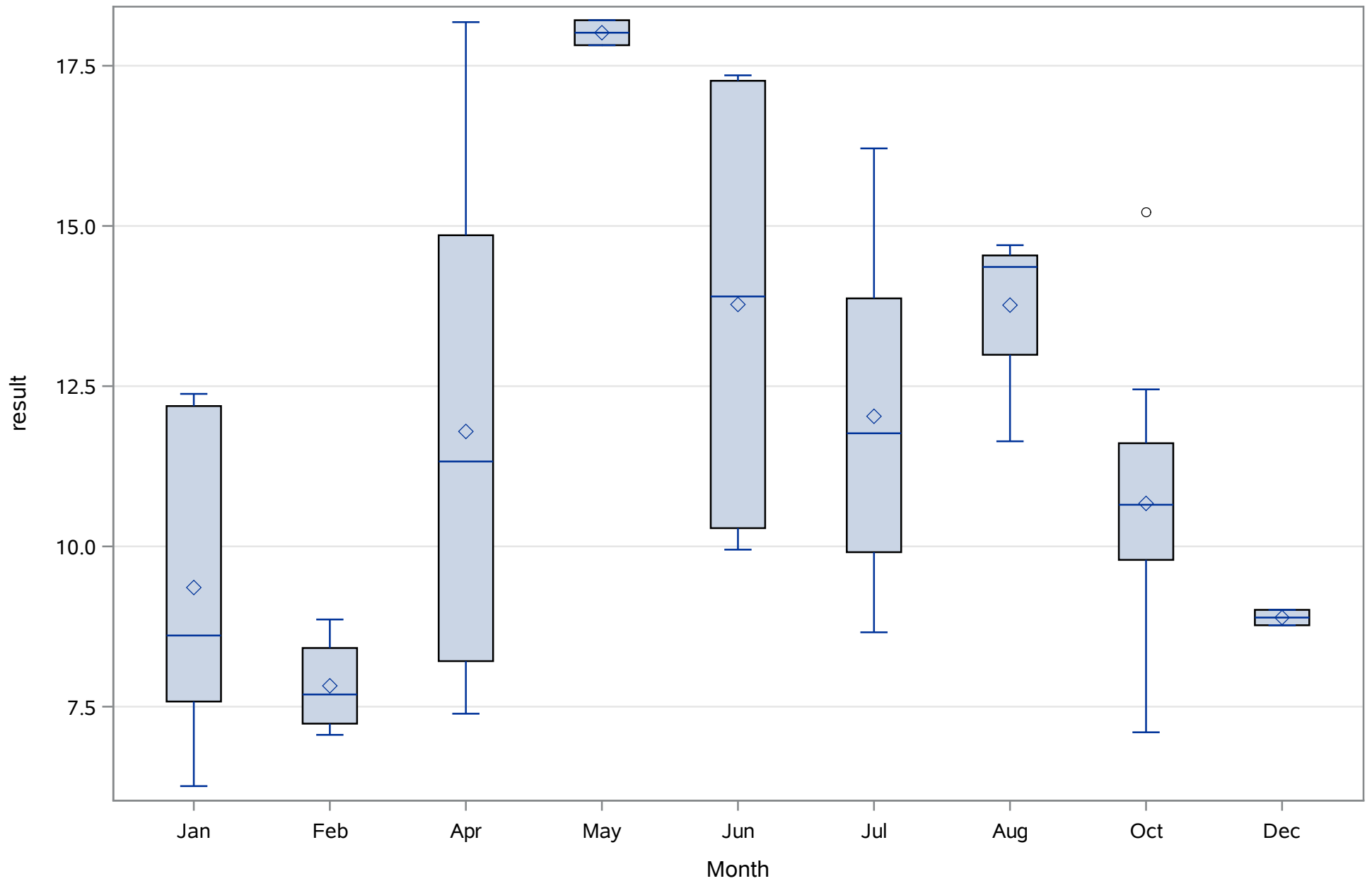
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Nonfilterable (TSS) (Total) mg/L



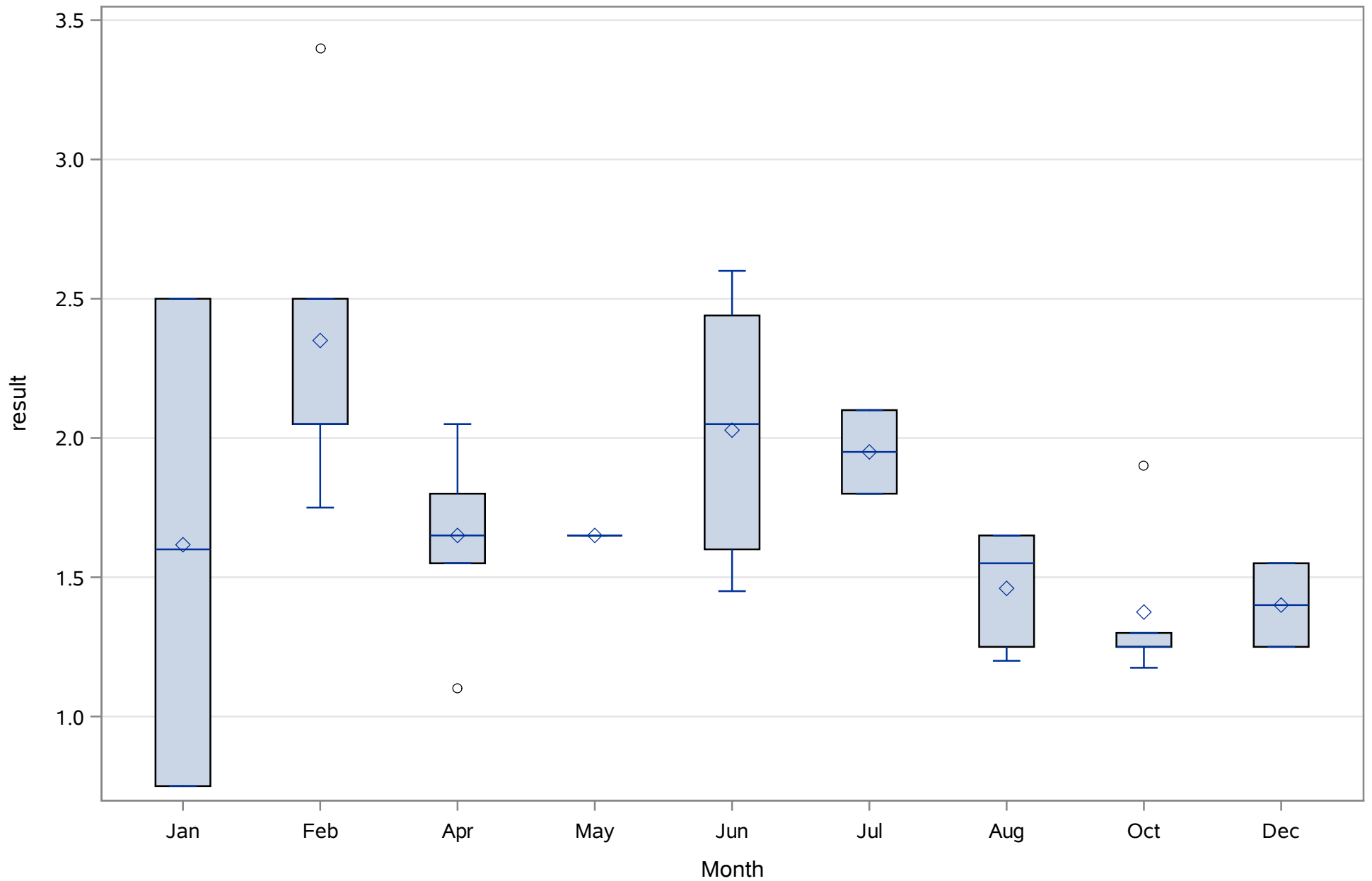
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Residues- Volatile (Total) mg/L



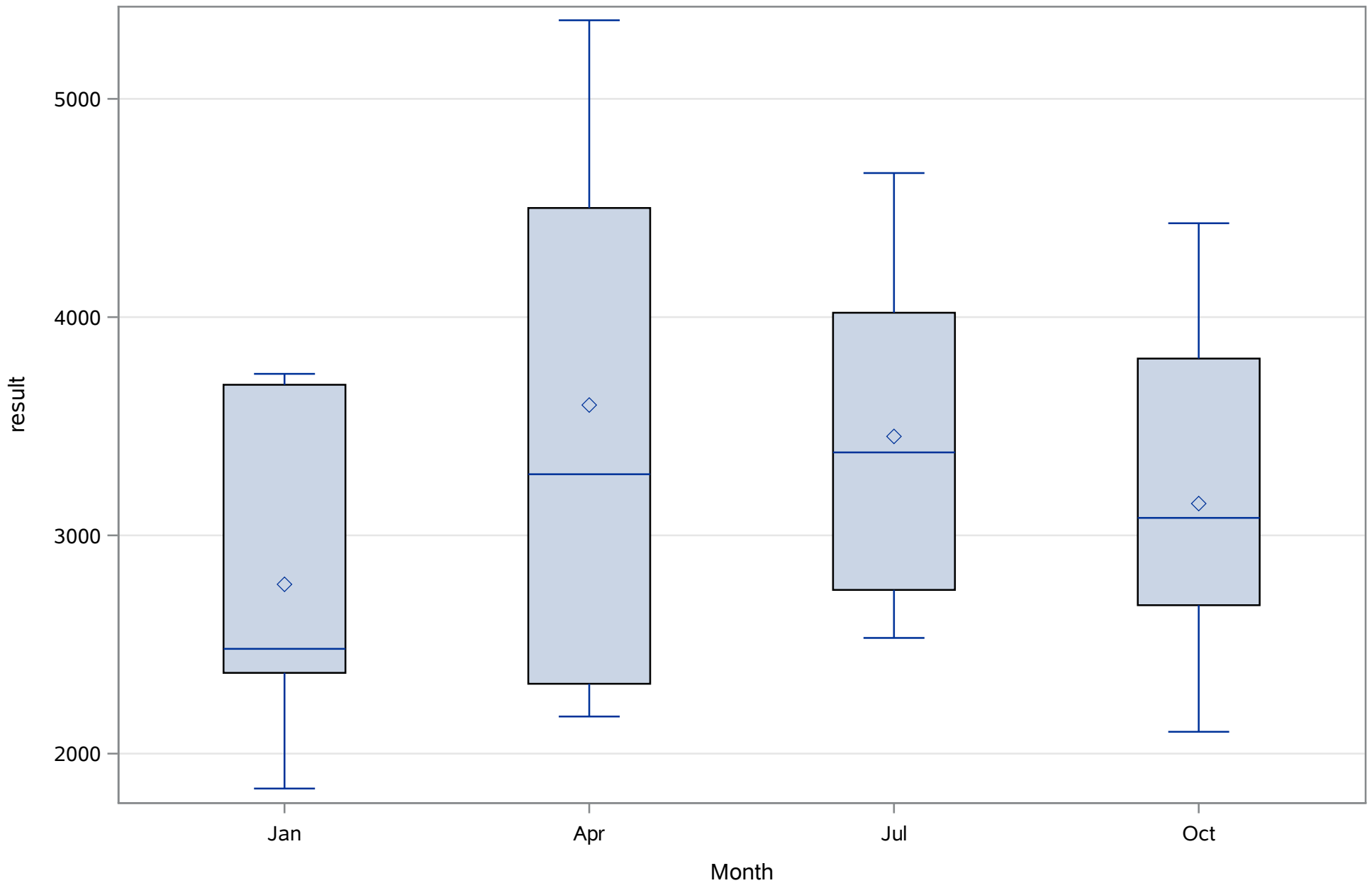
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Salinity (Total) ppt



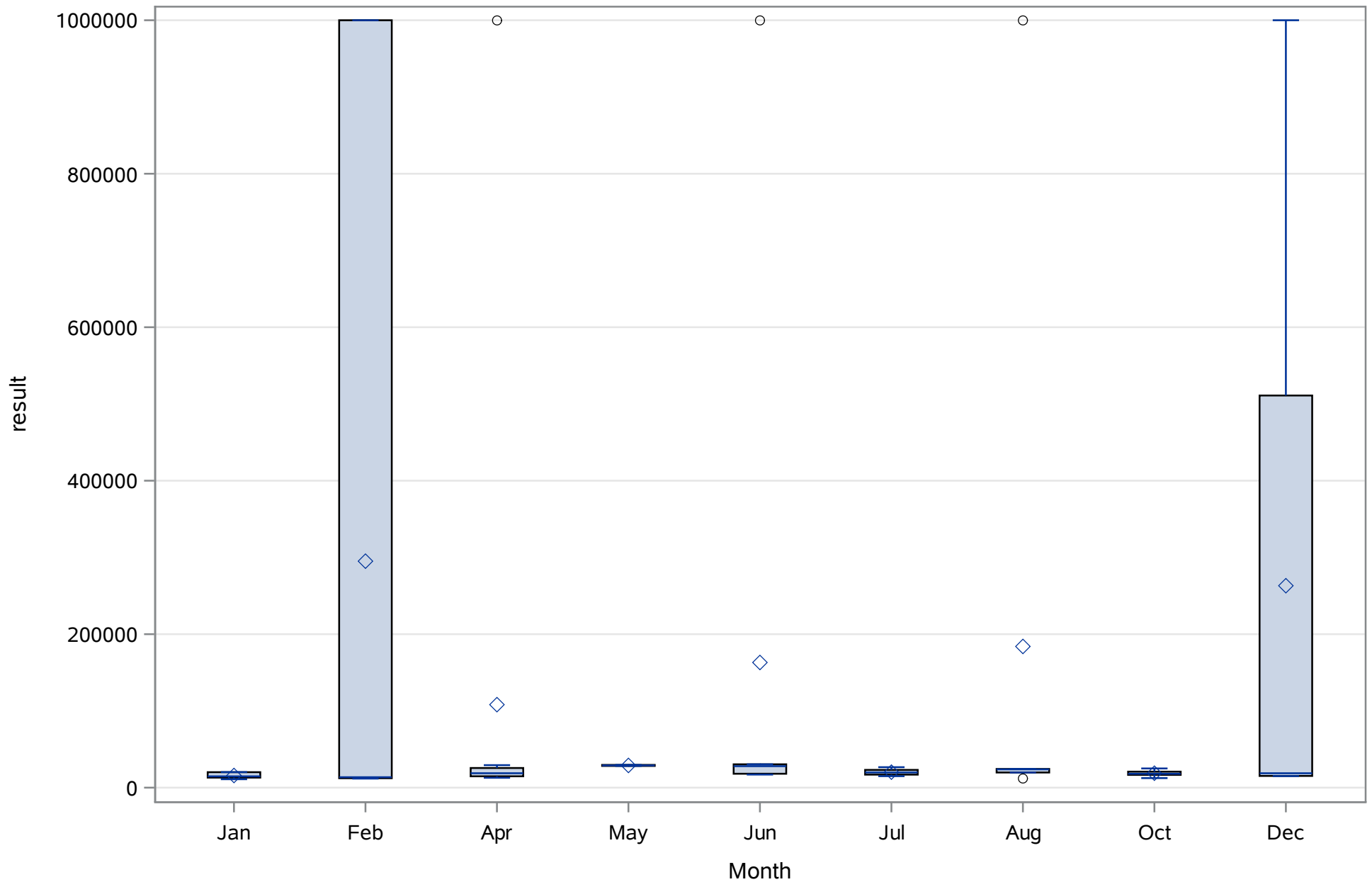
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Secchi-vertical (Total) Meters



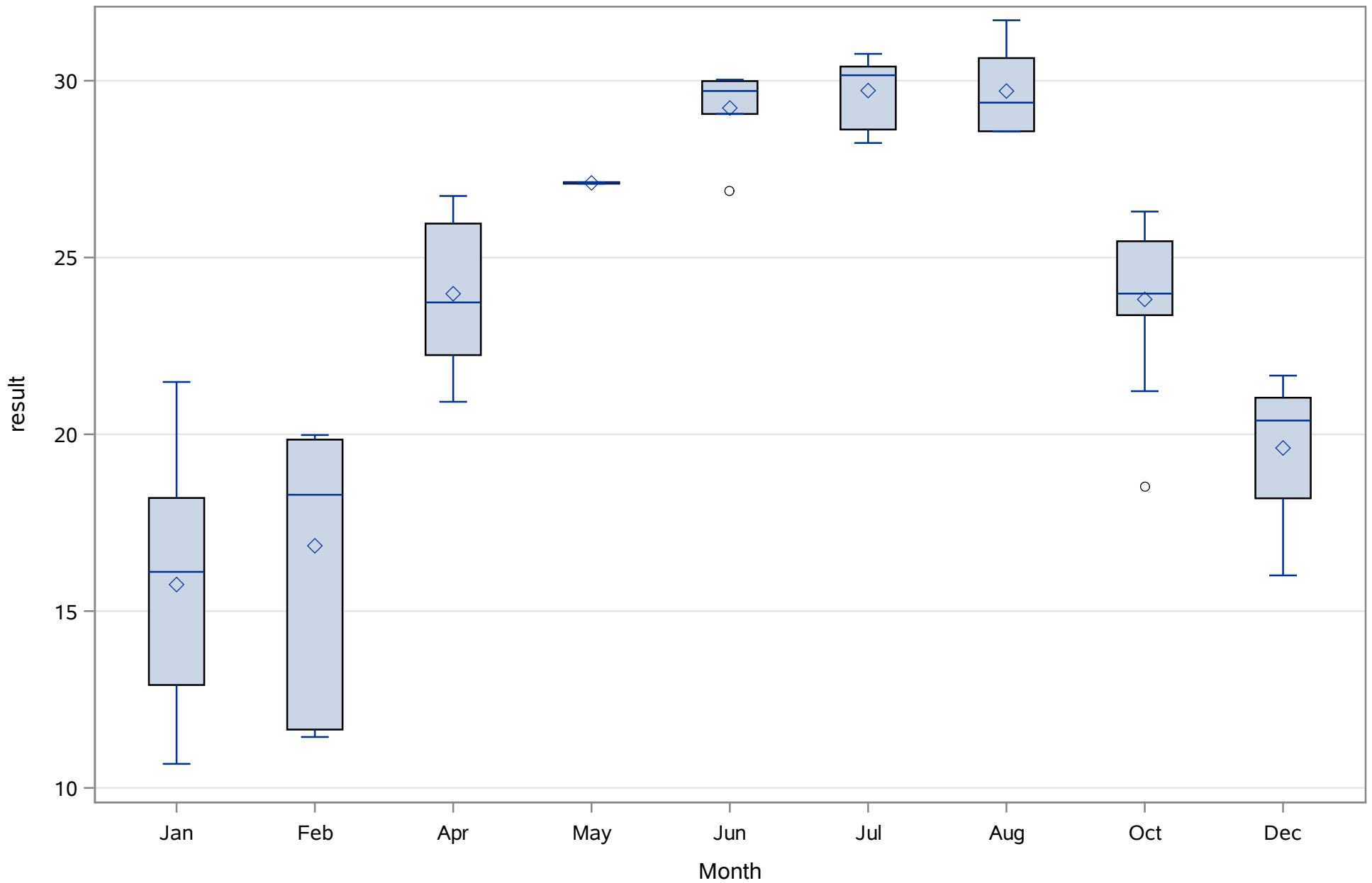
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Sodium (Dissolved) mg/L



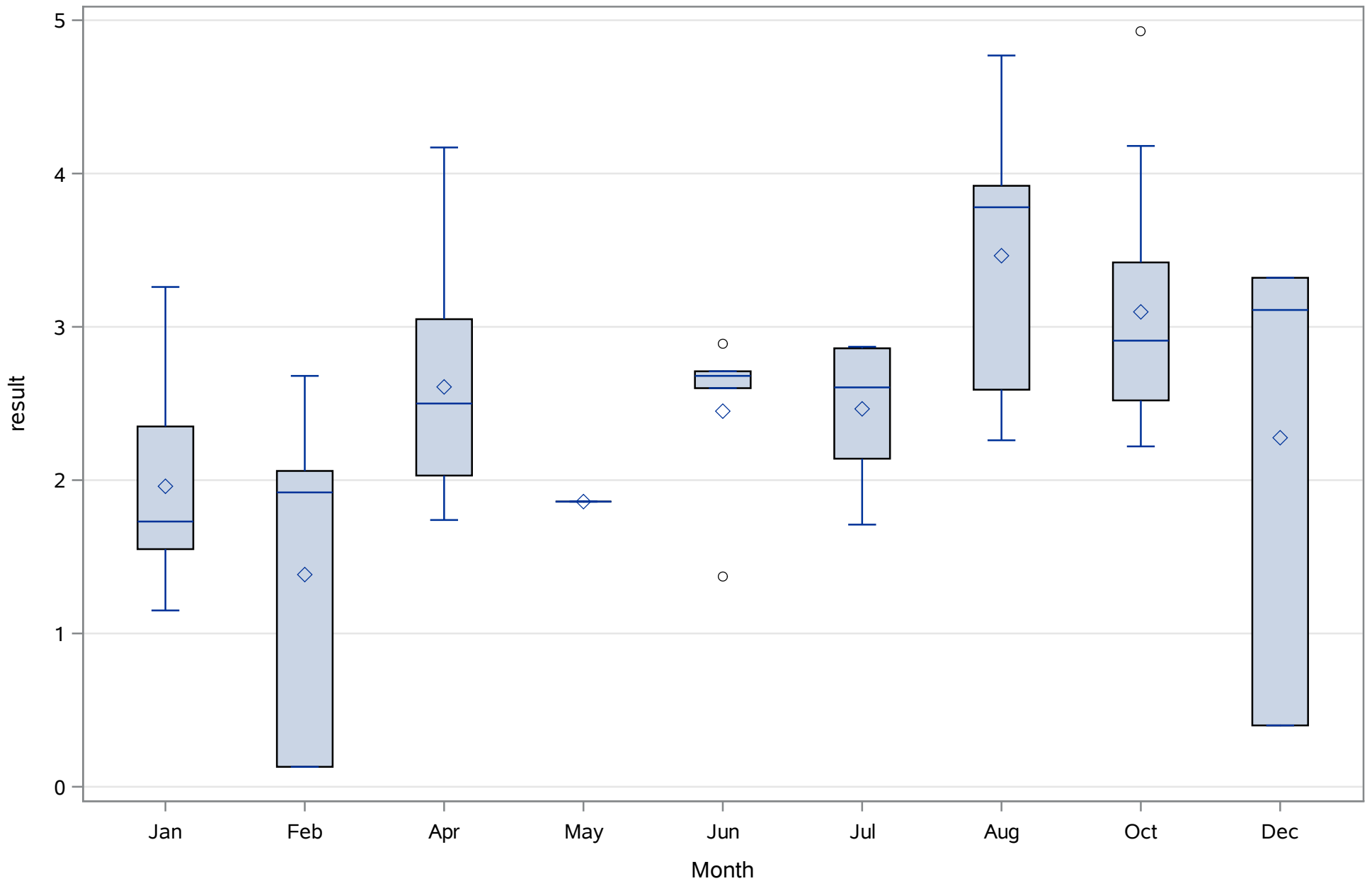
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Specific Conductance (Total) uS/cm



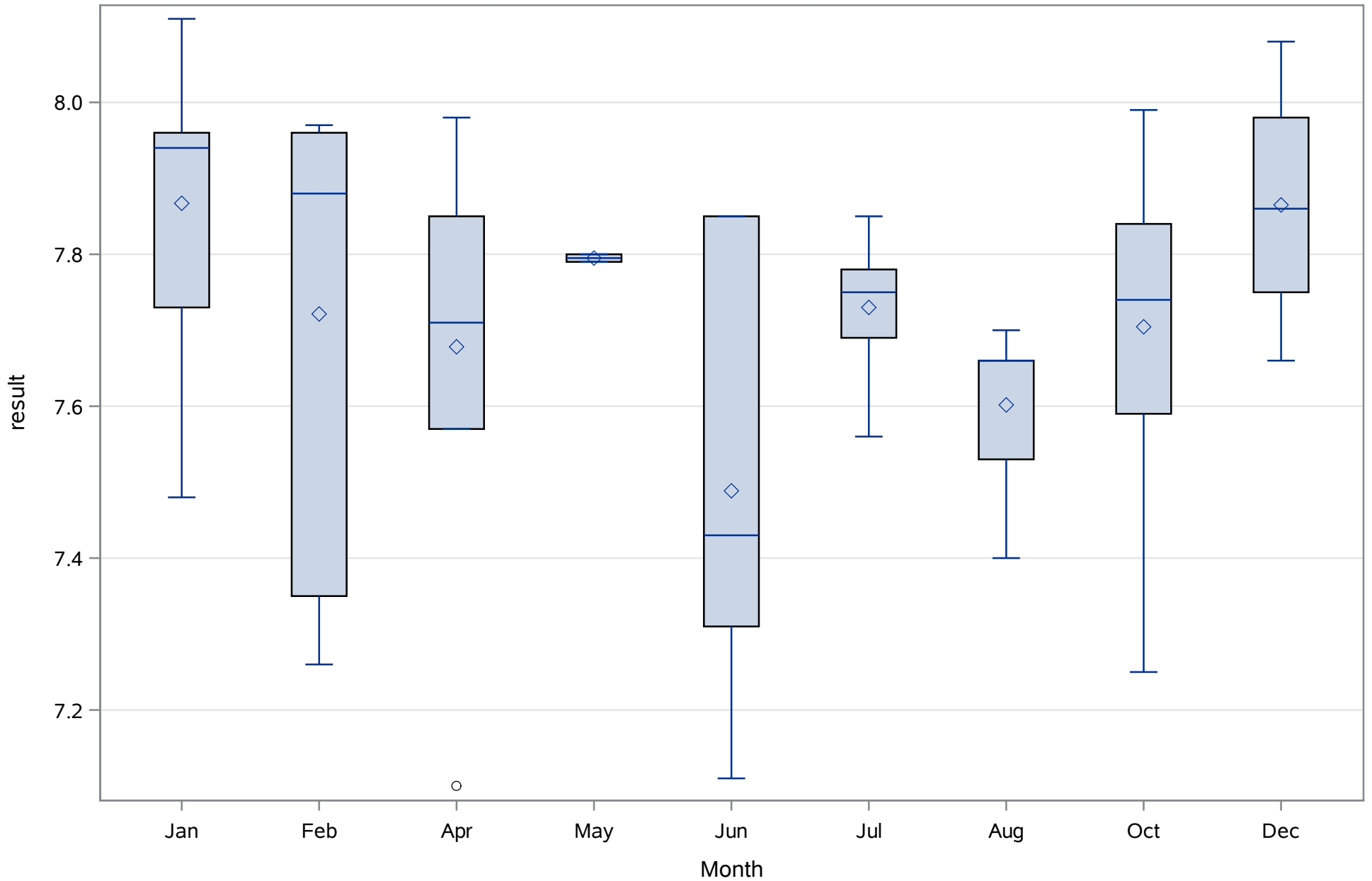
Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Coastal Rivers
Chassahowitzka River CV 5
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Chlorophyll (Total)	ug/L	JUN1997	AUG2014	206	4.9%	1.9%	1.5%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	4.4%	0.0%	1.1%
Color (Total)	PCU	MAY1999	AUG2014	184	6.0%	0.5%	2.2%
Depth (Total)	Meters	JUN1997	AUG2014	206	0.5%	1.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	AUG2014	205	2.0%	2.0%	0.5%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	177	5.6%	1.1%	0.6%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	0.0%	1.5%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	0.5%	1.5%	1.5%
Salinity (Total)	ppth	AUG1997	AUG2014	207	0.0%	1.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	AUG2014	206	1.9%	1.9%	0.5%
pH (Total)	SU	DEC2000	AUG2014	142	4.9%	1.4%	1.4%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	2.4757767	Sum Observations	510.01
Std Deviation	2.8447055	Variance	8.09234939
Skewness	6.22910968	Kurtosis	56.839516
Uncorrected SS	2921.6025	Corrected SS	1658.93163
Coeff Variation	114.901538	Std Error Mean	0.19820002

Basic Statistical Measures			
Location		Variability	
Mean	2.475777	Std Deviation	2.84471
Median	1.700000	Variance	8.09235
Mode	1.100000	Range	31.45000
		Interquartile Range	1.80000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.4913	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.86
99%	12.60
95%	6.30
90%	4.70
75% Q3	2.90
50% Median	1.70
25% Q1	1.10
10%	0.79
5%	0.60
1%	0.50
0% Min	0.41

Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 1

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.41	166	8.87	85
0.41	127	9.15	102
0.50	14	12.60	110
0.51	120	13.60	25
0.52	200	31.86	122

Chassahowitzka River - Fixed Station

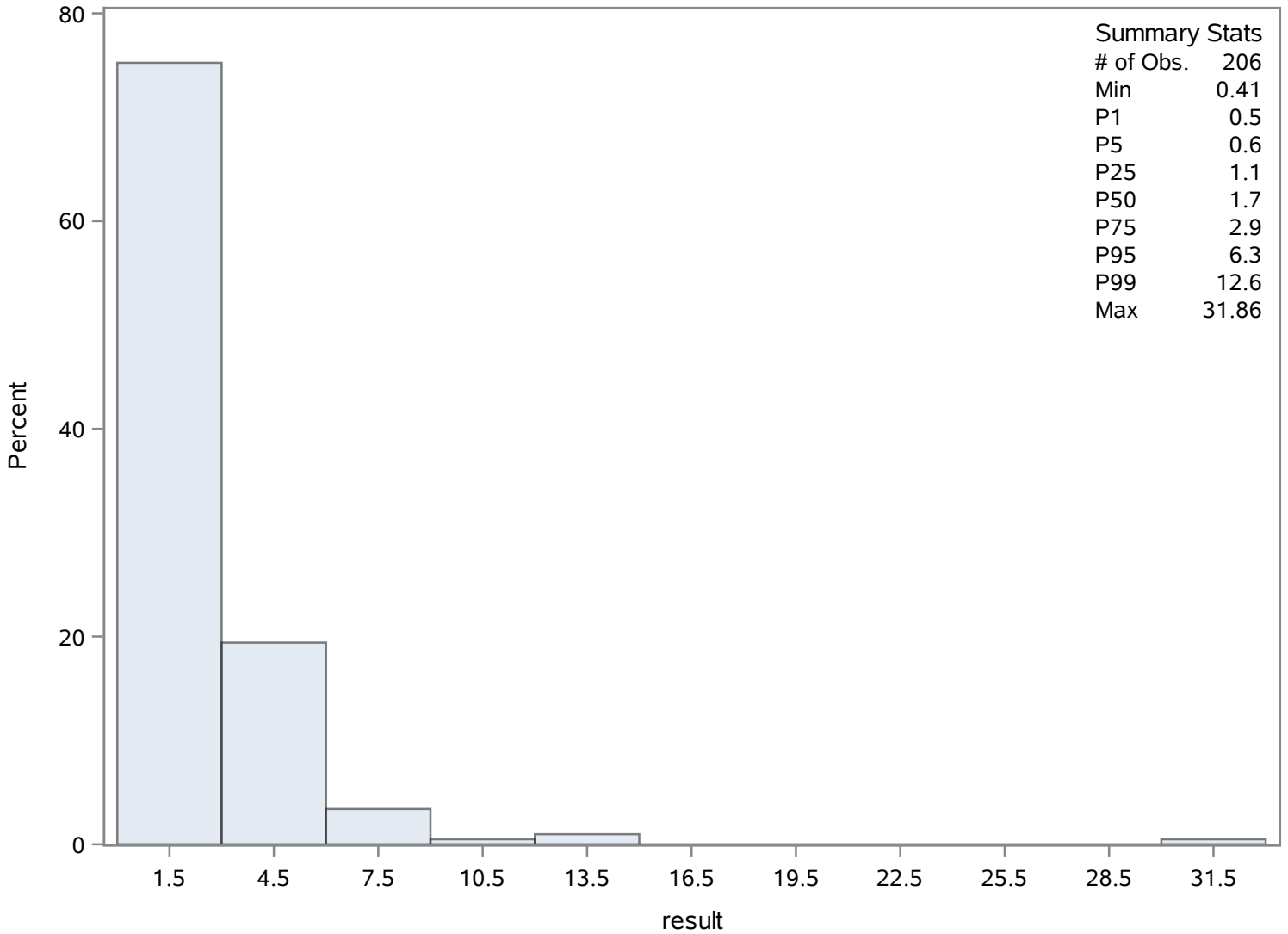
Source: COAST

Chassahowitzka Citrus 1

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	1.46296703	Sum Observations	133.13
Std Deviation	2.3120383	Variance	5.3455211
Skewness	7.06355731	Kurtosis	59.1352604
Uncorrected SS	675.8617	Corrected SS	481.096899
Coeff Variation	158.037621	Std Error Mean	0.24236747

Basic Statistical Measures			
Location		Variability	
Mean	1.462967	Std Deviation	2.31204
Median	0.890000	Variance	5.34552
Mode	0.450000	Range	20.90000
		Interquartile Range	1.12000

Note: The mode displayed is the smallest of 2 modes with a count of 9.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.036153	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21.12
99%	21.12
95%	3.46
90%	2.79
75% Q3	1.68
50% Median	0.89
25% Q1	0.56
10%	0.34
5%	0.28

Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 1

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.22
0% Min	0.22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.22	255	3.46	226
0.22	254	4.13	225
0.22	242	4.25	237
0.22	230	5.36	248
0.28	291	21.12	213

Chassahowitzka River - Fixed Station

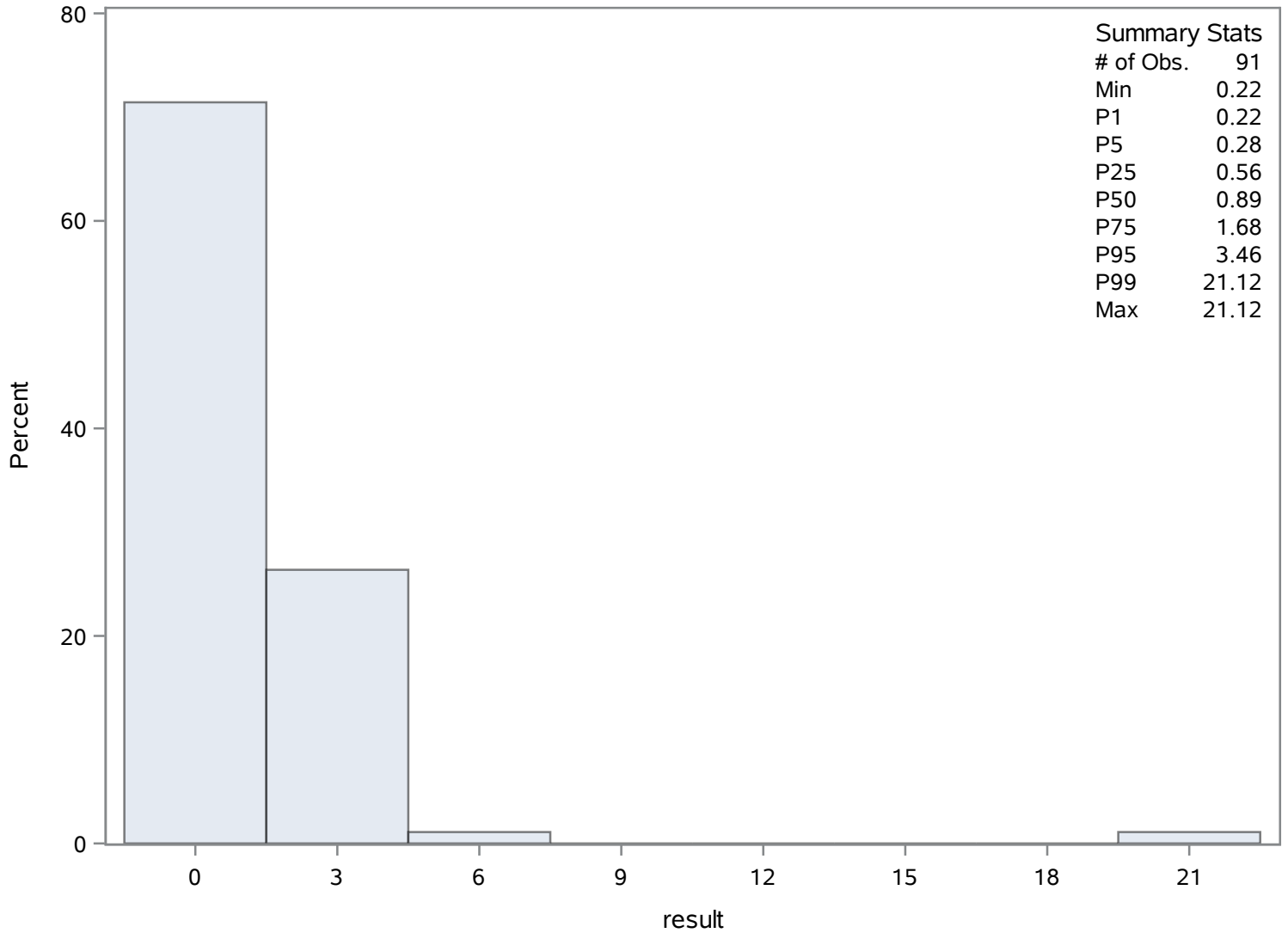
Source: COAST

Chassahowitzka Citrus 1

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	4.89673913	Sum Observations	901
Std Deviation	6.01502583	Variance	36.1805358
Skewness	5.11779179	Kurtosis	34.2426534
Uncorrected SS	11033	Corrected SS	6621.03804
Coeff Variation	122.837375	Std Error Mean	0.44343359

Basic Statistical Measures			
Location		Variability	
Mean	4.896739	Std Deviation	6.01503
Median	3.000000	Variance	36.18054
Mode	2.000000	Range	55.00000
		Interquartile Range	3.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.04278	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	56.0
99%	37.0
95%	14.0
90%	8.0
75% Q3	5.5
50% Median	3.0
25% Q1	2.0
10%	2.0
5%	2.0
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	479	18	371
1	451	27	409
1	442	30	457
1	435	37	445
1	415	56	362

Chassahowitzka River - Fixed Station

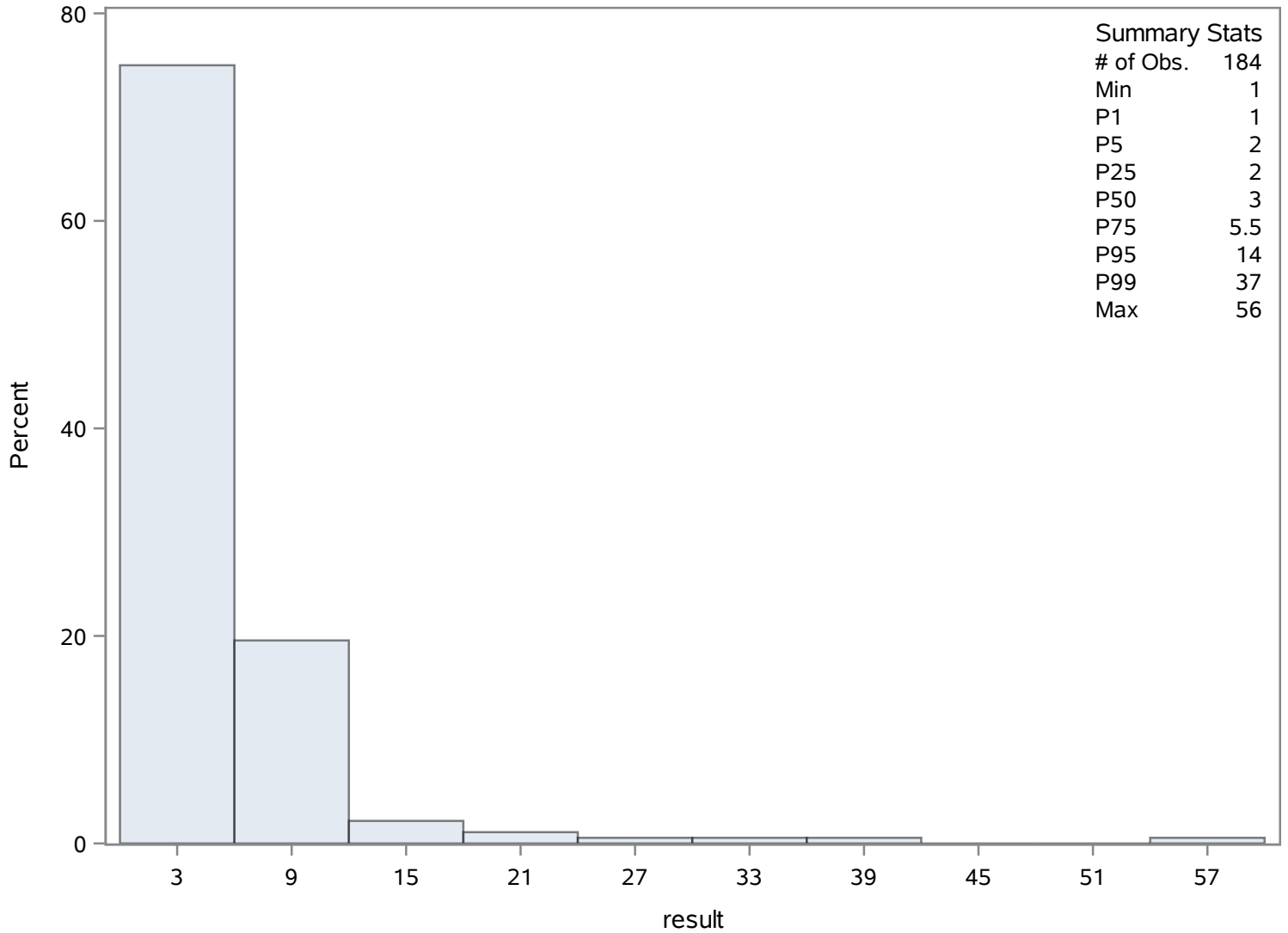
Source: COAST

Chassahowitzka Citrus 1

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	0.84660194	Sum Observations	174.4
Std Deviation	0.16954201	Variance	0.02874449
Skewness	0.1590225	Kurtosis	-0.1949677
Uncorrected SS	153.54	Corrected SS	5.89262136
Coeff Variation	20.0261782	Std Error Mean	0.01181255

Basic Statistical Measures			
Location		Variability	
Mean	0.846602	Std Deviation	0.16954
Median	0.800000	Variance	0.02874
Mode	0.800000	Range	0.80000
		Interquartile Range	0.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	71.66969	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.3
99%	1.2
95%	1.1
90%	1.1
75% Q3	1.0
50% Median	0.8
25% Q1	0.7
10%	0.6
5%	0.6
1%	0.5
0% Min	0.5

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	632	1.2	554
0.5	629	1.2	565
0.5	620	1.2	663
0.5	608	1.3	485
0.5	594	1.3	640

Chassahowitzka River - Fixed Station

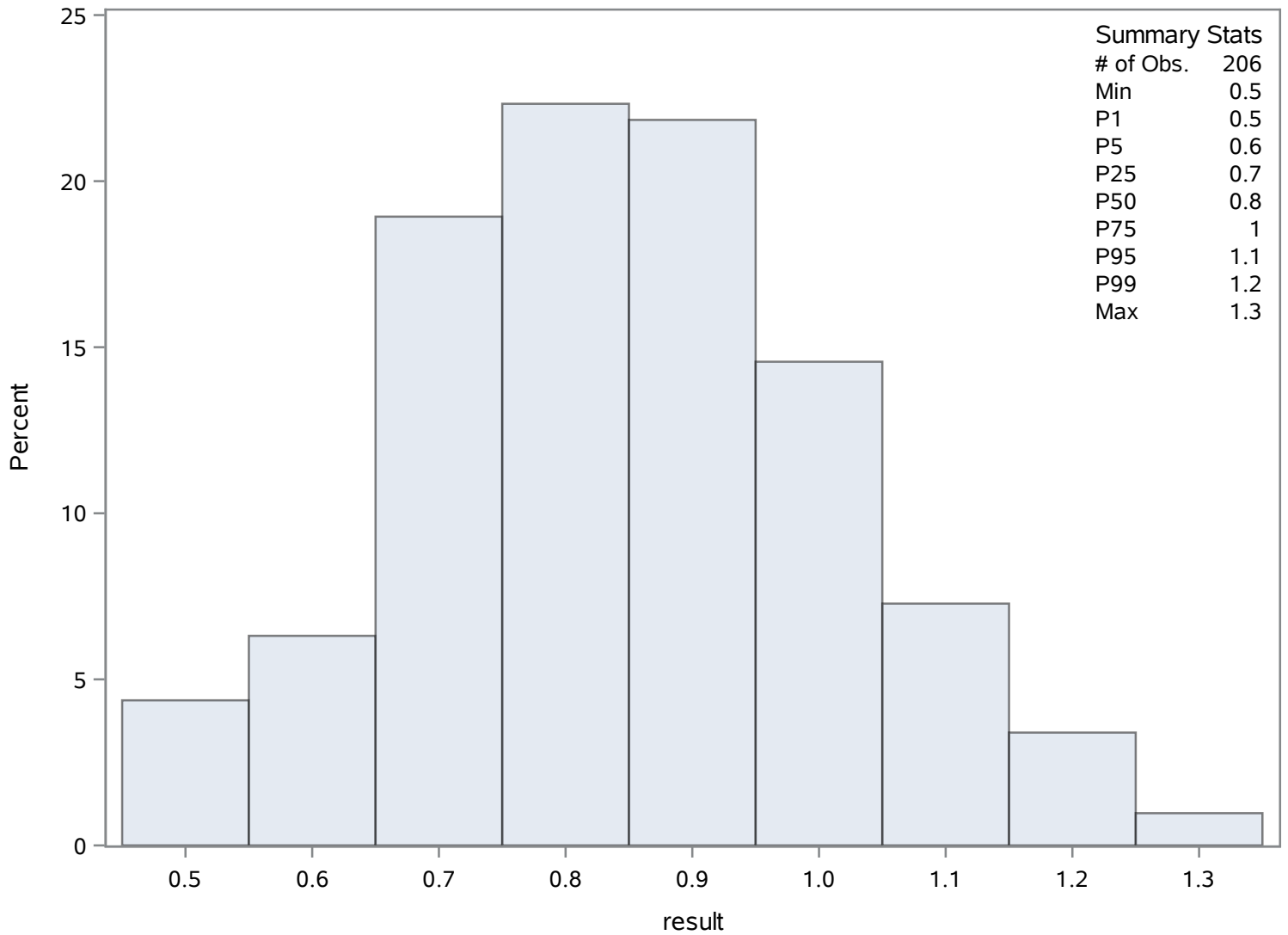
Source: COAST

Chassahowitzka Citrus 1

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	7.18141463	Sum Observations	1472.19
Std Deviation	1.65151489	Variance	2.72750142
Skewness	0.84211456	Kurtosis	0.99346628
Uncorrected SS	11128.8171	Corrected SS	556.41029
Coeff Variation	22.9970691	Std Error Mean	0.1153468

Basic Statistical Measures			
Location		Variability	
Mean	7.181415	Std Deviation	1.65151
Median	6.940000	Variance	2.72750
Mode	6.800000	Range	9.89000
		Interquartile Range	1.83000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	62.25933	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.45
99%	11.47
95%	10.51
90%	9.70
75% Q3	7.93
50% Median	6.94
25% Q1	6.10
10%	5.21
5%	4.83
1%	4.29
0% Min	3.56

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.56	802	11.36	734
4.23	848	11.40	715
4.29	836	11.47	853
4.44	845	11.50	809
4.48	801	13.45	829

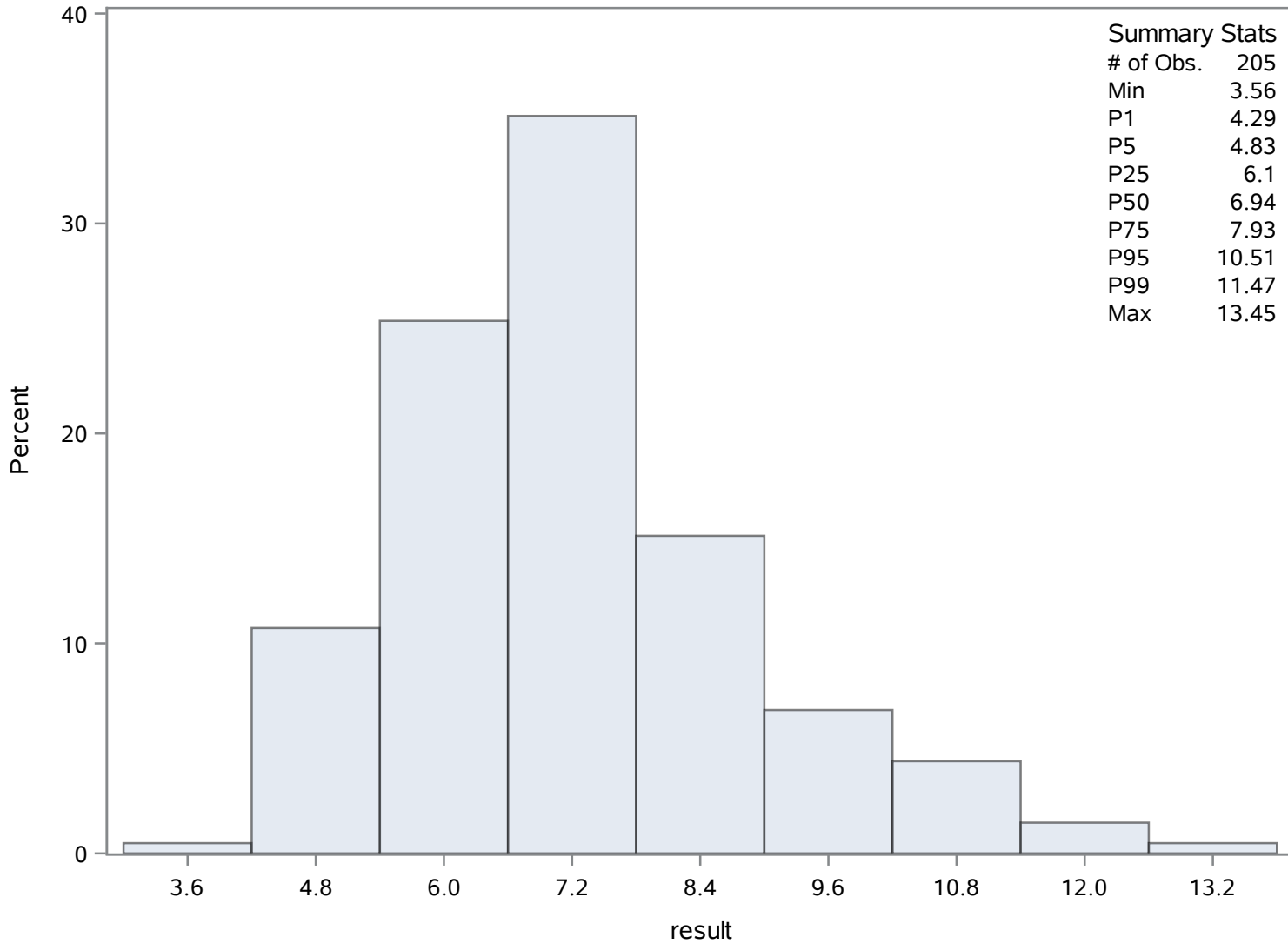
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 1 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	177	Sum Weights	177
Mean	0.98622599	Sum Observations	174.562
Std Deviation	0.74364963	Variance	0.55301477
Skewness	5.50035179	Kurtosis	47.8914776
Uncorrected SS	269.48818	Corrected SS	97.330599
Coeff Variation	75.4035723	Std Error Mean	0.05589613

Basic Statistical Measures			
Location		Variability	
Mean	0.986226	Std Deviation	0.74365
Median	0.823000	Variance	0.55301
Mode	0.657000	Range	7.90100
		Interquartile Range	0.50800

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.64391	Pr > t 	<.0001
Sign	M	88.5	Pr >= M 	<.0001
Signed Rank	S	7876.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.119
99%	2.983
95%	2.271
90%	1.632
75% Q3	1.138
50% Median	0.823
25% Q1	0.630
10%	0.474
5%	0.337
1%	0.232
0% Min	0.218

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m

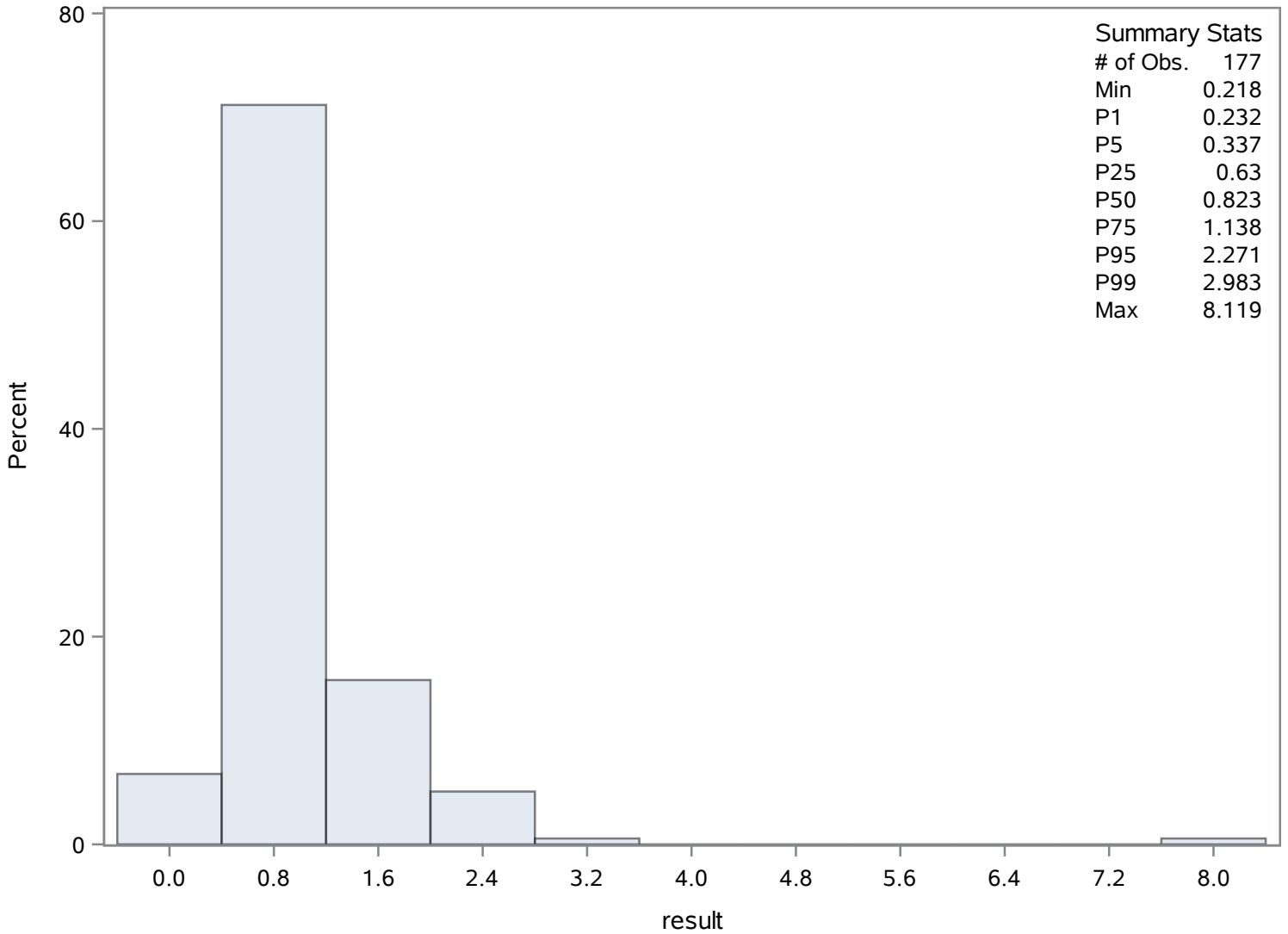
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.218	917	2.474	977
0.232	916	2.562	950
0.243	982	2.717	984
0.247	1066	2.983	990
0.247	1005	8.119	919

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	463.203883	Sum Observations	95420
Std Deviation	120.731216	Variance	14576.0265
Skewness	-0.2751811	Kurtosis	-0.5705851
Uncorrected SS	47187000	Corrected SS	2988085.44
Coeff Variation	26.0643791	Std Error Mean	8.41174241

Basic Statistical Measures			
Location		Variability	
Mean	463.2039	Std Deviation	120.73122
Median	470.0000	Variance	14576
Mode	430.0000	Range	550.00000
		Interquartile Range	180.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	55.06634	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	720
99%	670
95%	640
90%	620
75% Q3	560
50% Median	470
25% Q1	380
10%	290
5%	250
1%	190
0% Min	170

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
170	1122	660	1239
190	1123	660	1256
190	1073	670	1185
200	1197	690	1272
200	1074	720	1240

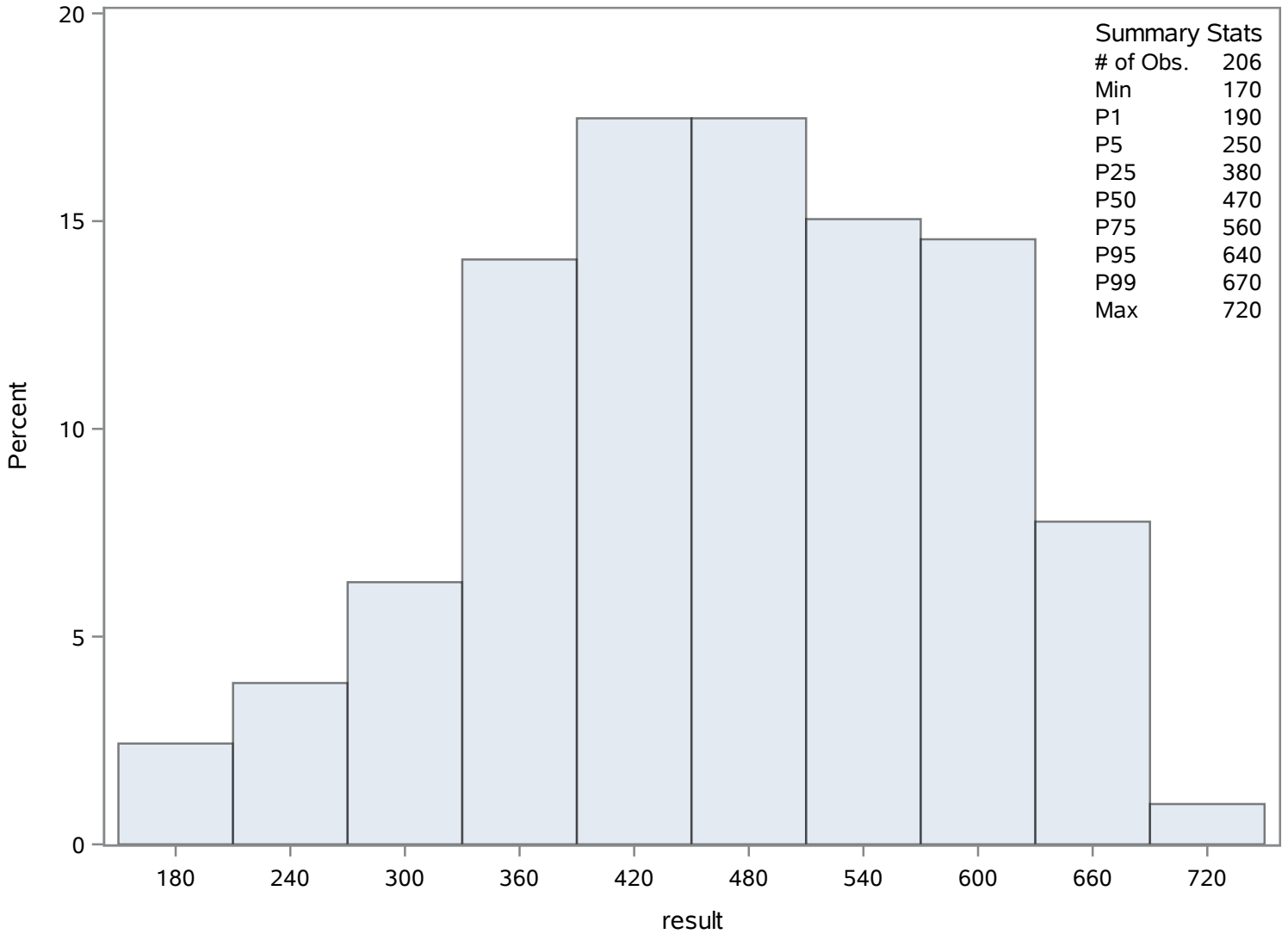
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 1 Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	16.815534	Sum Observations	3464
Std Deviation	4.00791308	Variance	16.0633673
Skewness	0.75774417	Kurtosis	1.95242656
Uncorrected SS	61542	Corrected SS	3292.99029
Coeff Variation	23.834587	Std Error Mean	0.27924454

Basic Statistical Measures			
Location		Variability	
Mean	16.81553	Std Deviation	4.00791
Median	16.00000	Variance	16.06337
Mode	15.00000	Range	27.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	60.21795	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	34
99%	30
95%	24
90%	21
75% Q3	19
50% Median	16
25% Q1	14
10%	12
5%	11
1%	9
0% Min	7

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	1418	26	1469
8	1330	27	1433
9	1477	30	1276
9	1408	30	1300
9	1370	34	1363

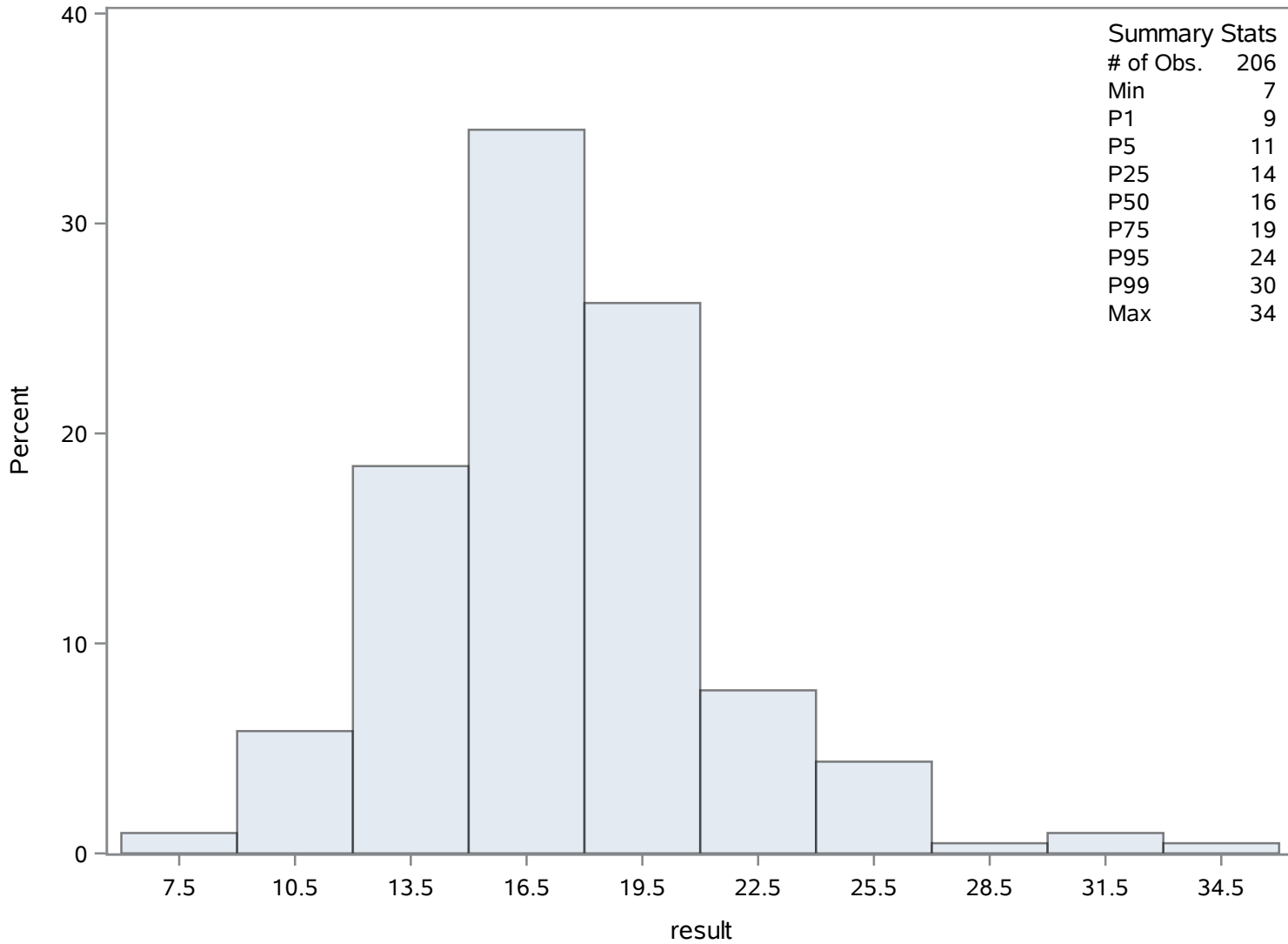
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 1 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	2.51743961	Sum Observations	521.11
Std Deviation	1.01471777	Variance	1.02965215
Skewness	0.25093489	Kurtosis	-0.1811434
Uncorrected SS	1523.9713	Corrected SS	212.108343
Coeff Variation	40.3075316	Std Error Mean	0.07052776

Basic Statistical Measures			
Location		Variability	
Mean	2.517440	Std Deviation	1.01472
Median	2.400000	Variance	1.02965
Mode	2.000000	Range	4.91000
		Interquartile Range	1.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	35.69431	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.26
99%	5.00
95%	4.09
90%	3.91
75% Q3	3.20
50% Median	2.40
25% Q1	1.80
10%	1.27
5%	0.97
1%	0.40
0% Min	0.35

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.35	1573	5.00	1482
0.40	1569	5.00	1491
0.40	1567	5.00	1603
0.40	1497	5.22	1649
0.50	1575	5.26	1601

Chassahowitzka River - Fixed Station

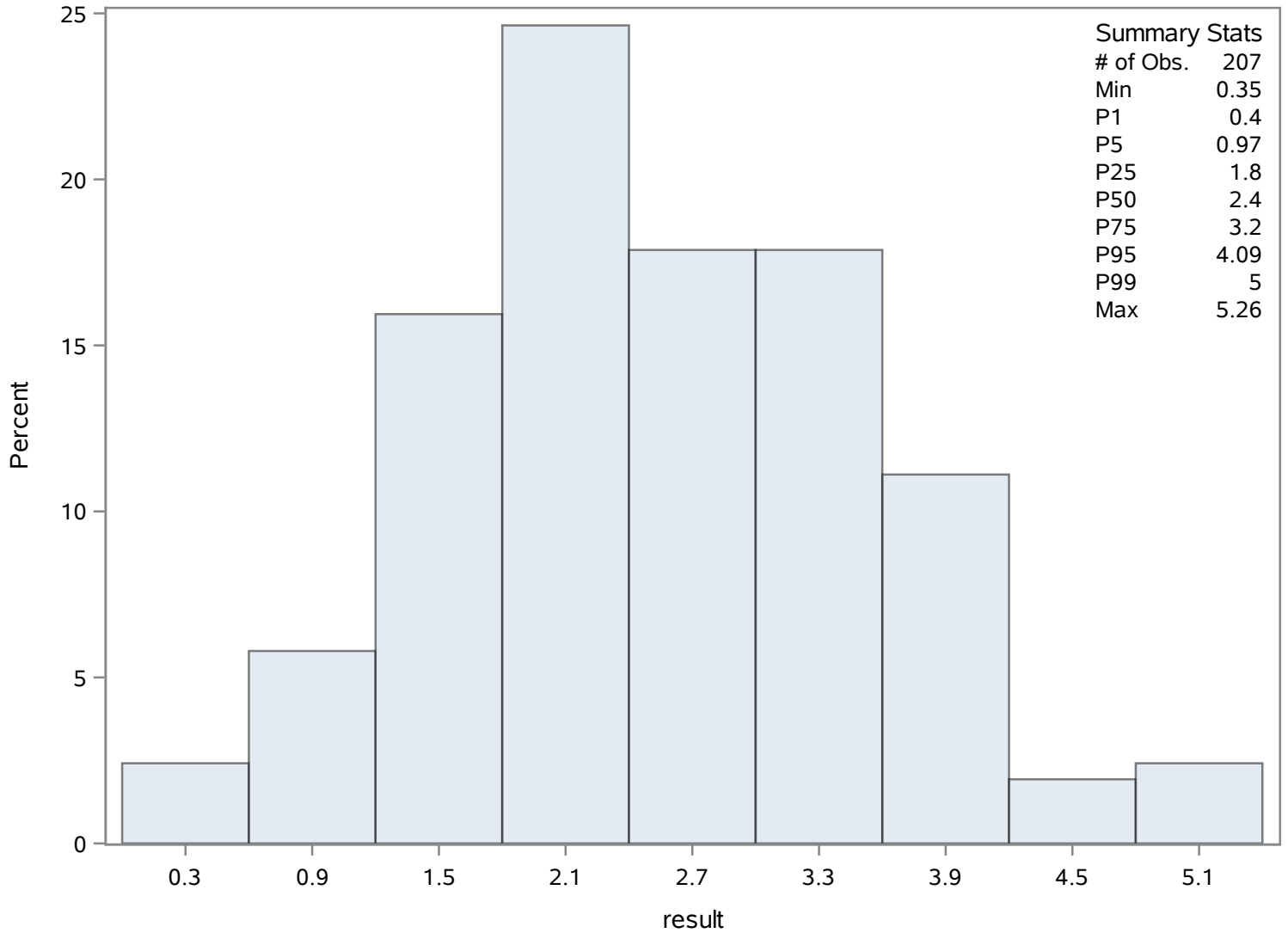
Source: COAST

Chassahowitzka Citrus 1

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	23.6218447	Sum Observations	4866.1
Std Deviation	0.70124245	Variance	0.49174097
Skewness	0.3945308	Kurtosis	1.02570981
Uncorrected SS	115047.065	Corrected SS	100.806899
Coeff Variation	2.96861849	Std Error Mean	0.04885788

Basic Statistical Measures			
Location		Variability	
Mean	23.62184	Std Deviation	0.70124
Median	23.56500	Variance	0.49174
Mode	24.00000	Range	4.34000
		Interquartile Range	0.75000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	483.4808	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.140
99%	25.500
95%	25.000
90%	24.500
75% Q3	23.980
50% Median	23.565
25% Q1	23.230
10%	22.800
5%	22.450
1%	22.000
0% Min	21.800

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21.80	1731	25.20	1719
21.84	1754	25.40	1715
22.00	1697	25.50	1690
22.07	1743	25.70	1727
22.20	1779	26.14	1810

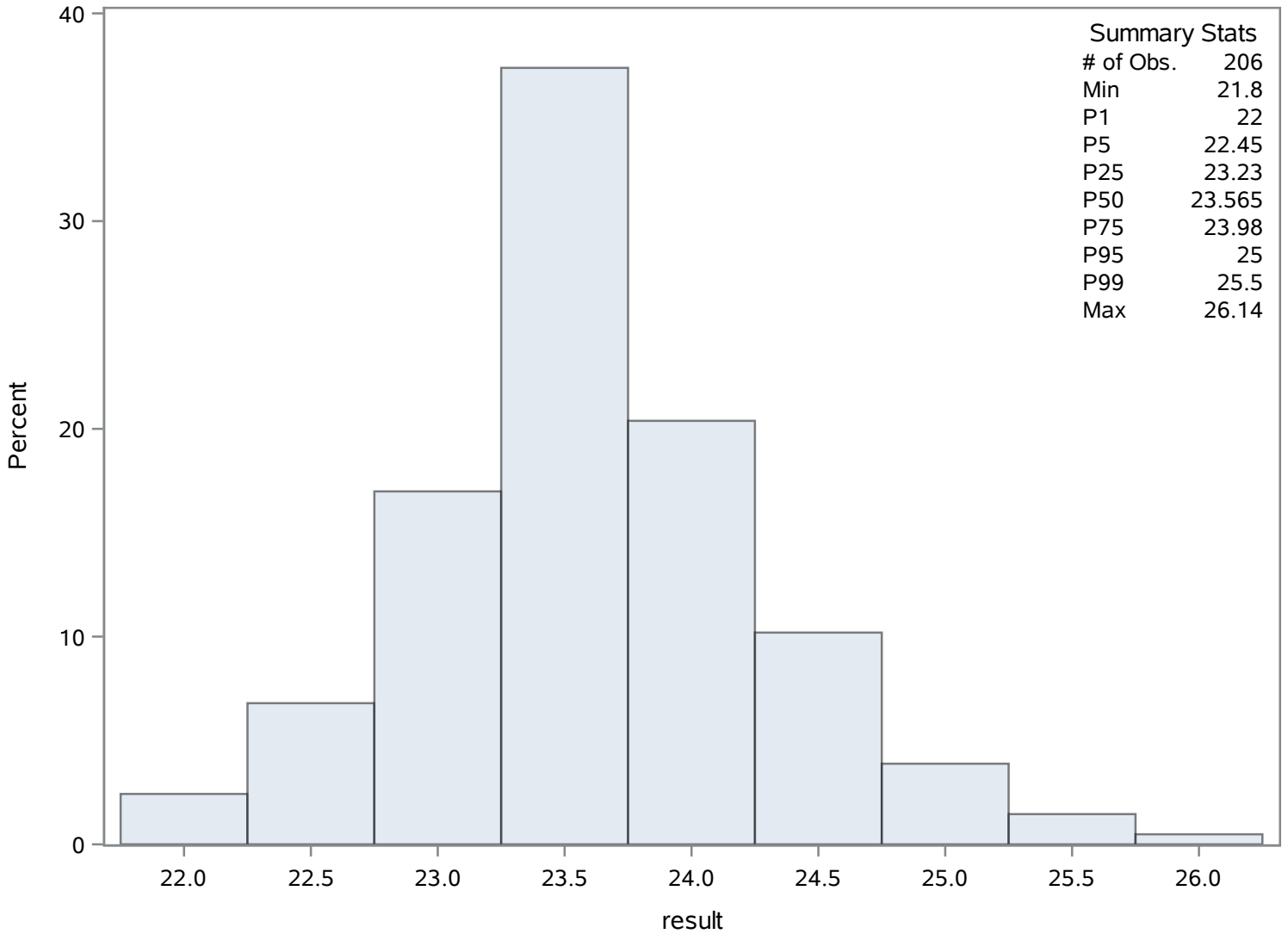
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 1 Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	142	Sum Weights	142
Mean	7.61098592	Sum Observations	1080.76
Std Deviation	0.3629632	Variance	0.13174228
Skewness	-1.3427165	Kurtosis	7.29973855
Uncorrected SS	8244.2248	Corrected SS	18.575662
Coeff Variation	4.76893799	Std Error Mean	0.03045919

Basic Statistical Measures			
Location		Variability	
Mean	7.610986	Std Deviation	0.36296
Median	7.600000	Variance	0.13174
Mode	7.540000	Range	2.92000
		Interquartile Range	0.24000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	249.8748	Pr > t 	<.0001
Sign	M	71	Pr >= M 	<.0001
Signed Rank	S	5076.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.53
99%	8.49
95%	8.15
90%	7.97
75% Q3	7.74
50% Median	7.60
25% Q1	7.50
10%	7.34
5%	6.96
1%	6.44
0% Min	5.61

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.61	1975	8.39	1901
6.44	1965	8.42	1937
6.63	2023	8.48	1895
6.68	1966	8.49	1899
6.73	2010	8.53	1973

Chassahowitzka River - Fixed Station

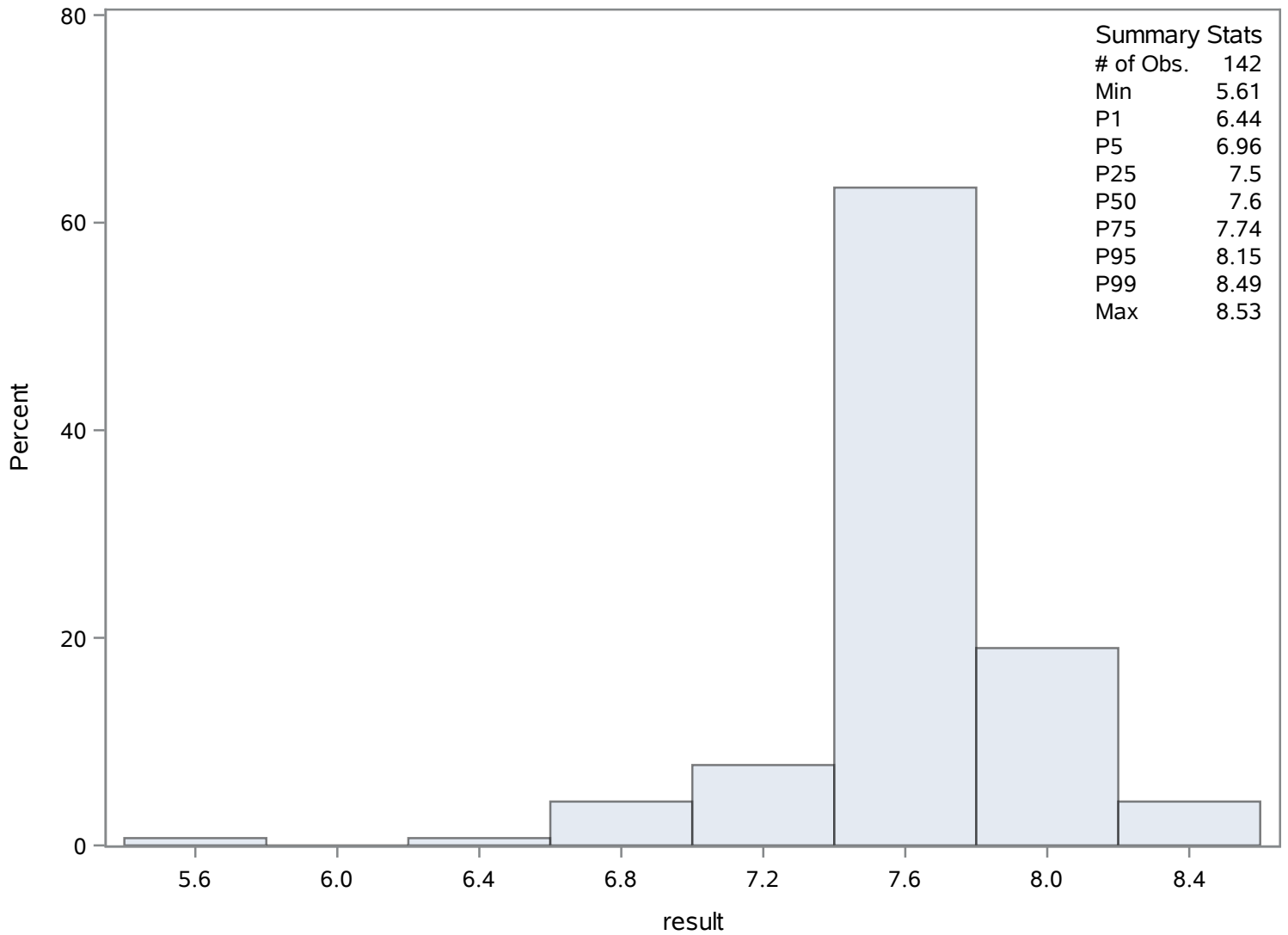
Source: COAST

Chassahowitzka Citrus 1

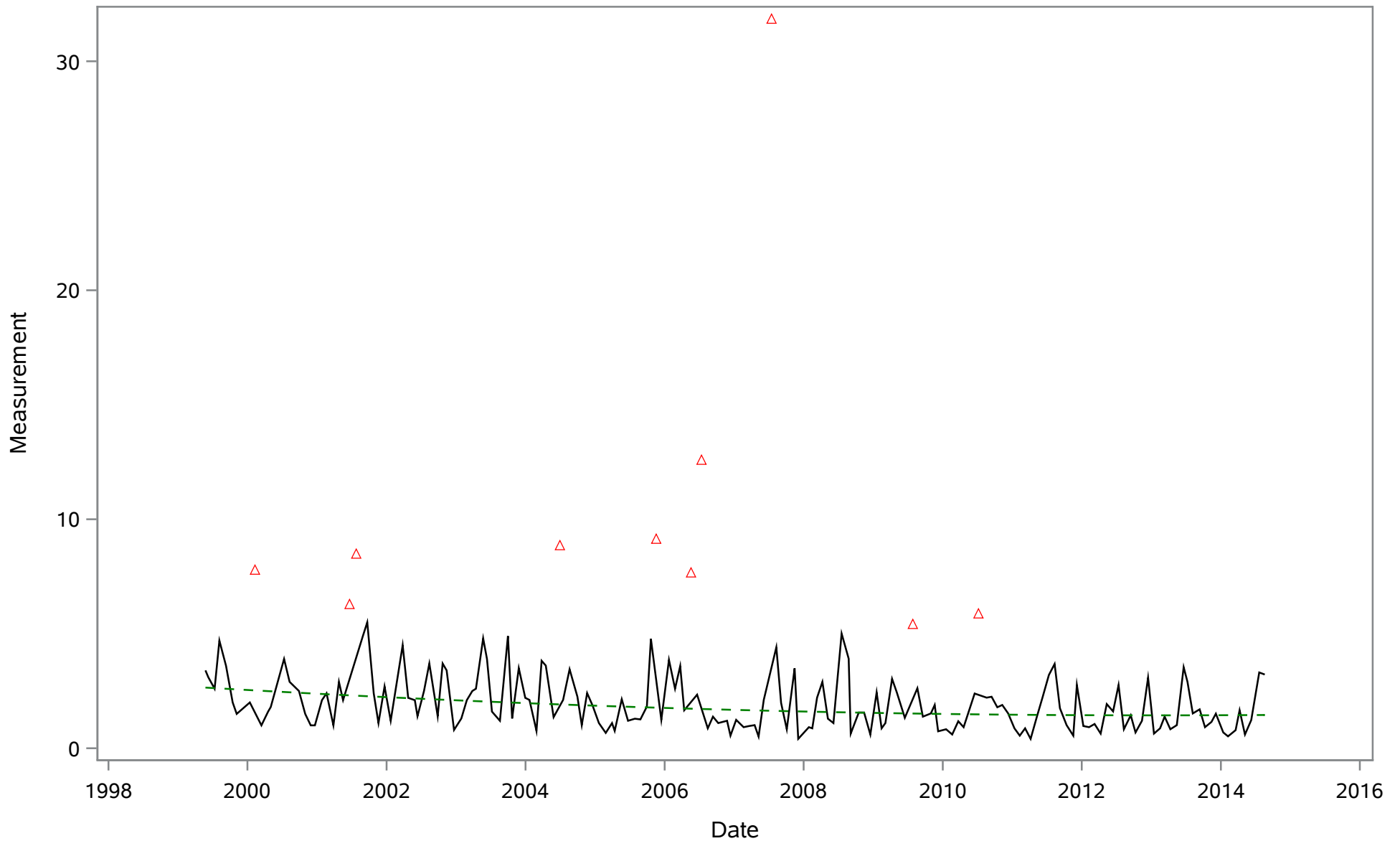
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

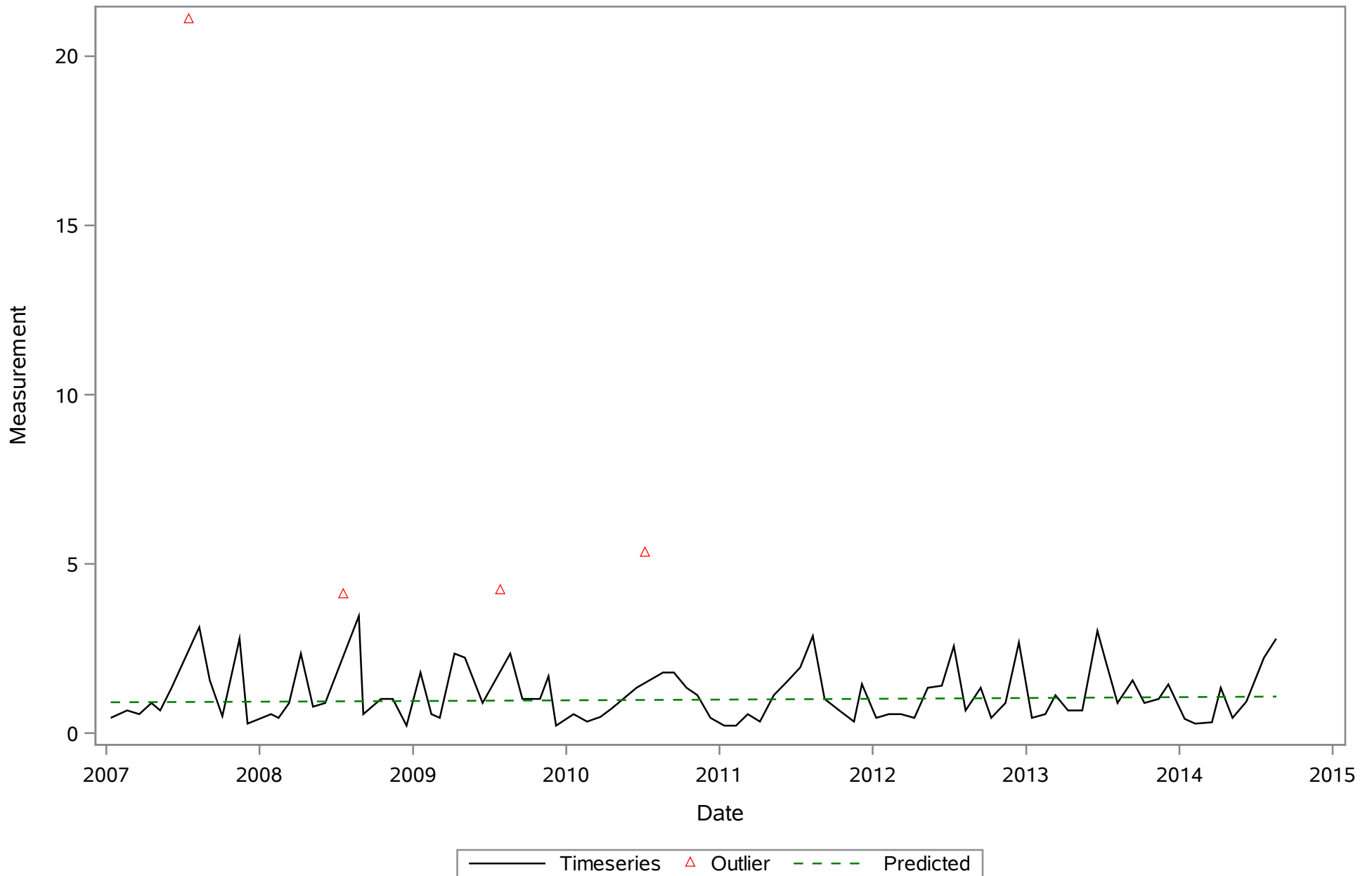


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Chlorophyll (Total) ug/L

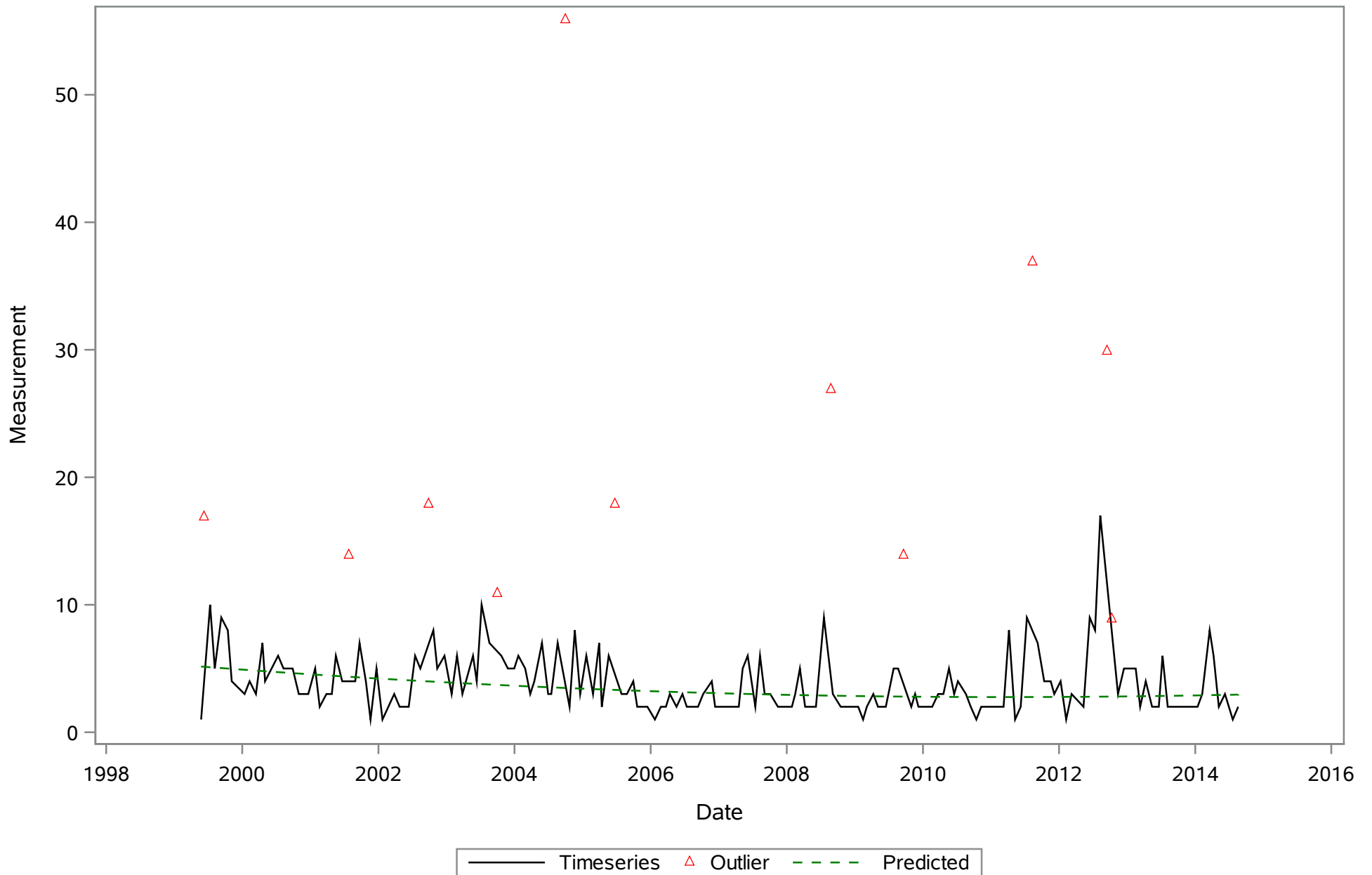


— Timeseries △ Outlier - - - Predicted

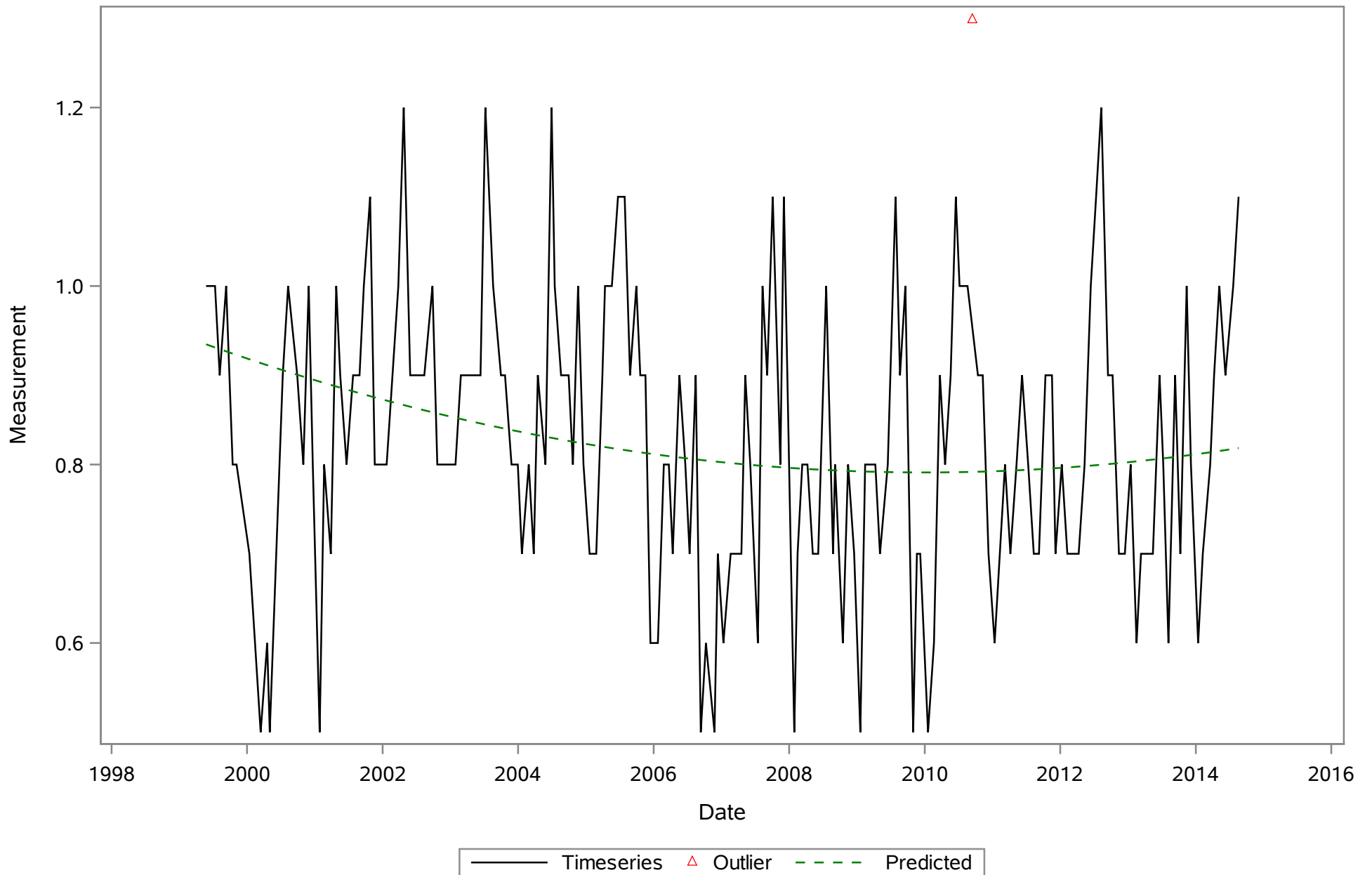
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Chlorophyll a (Total) ug/L



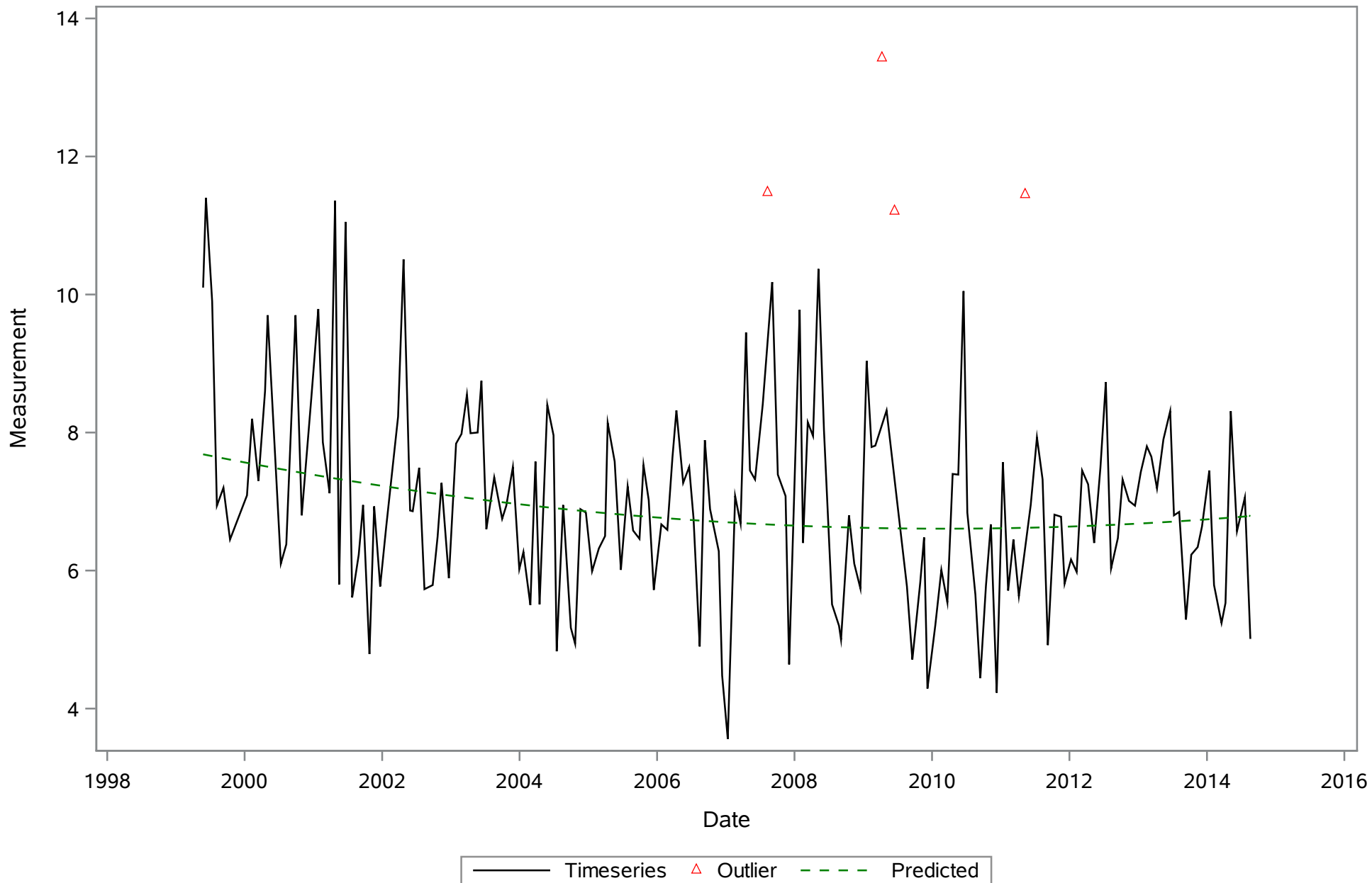
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Color (Total) PCU



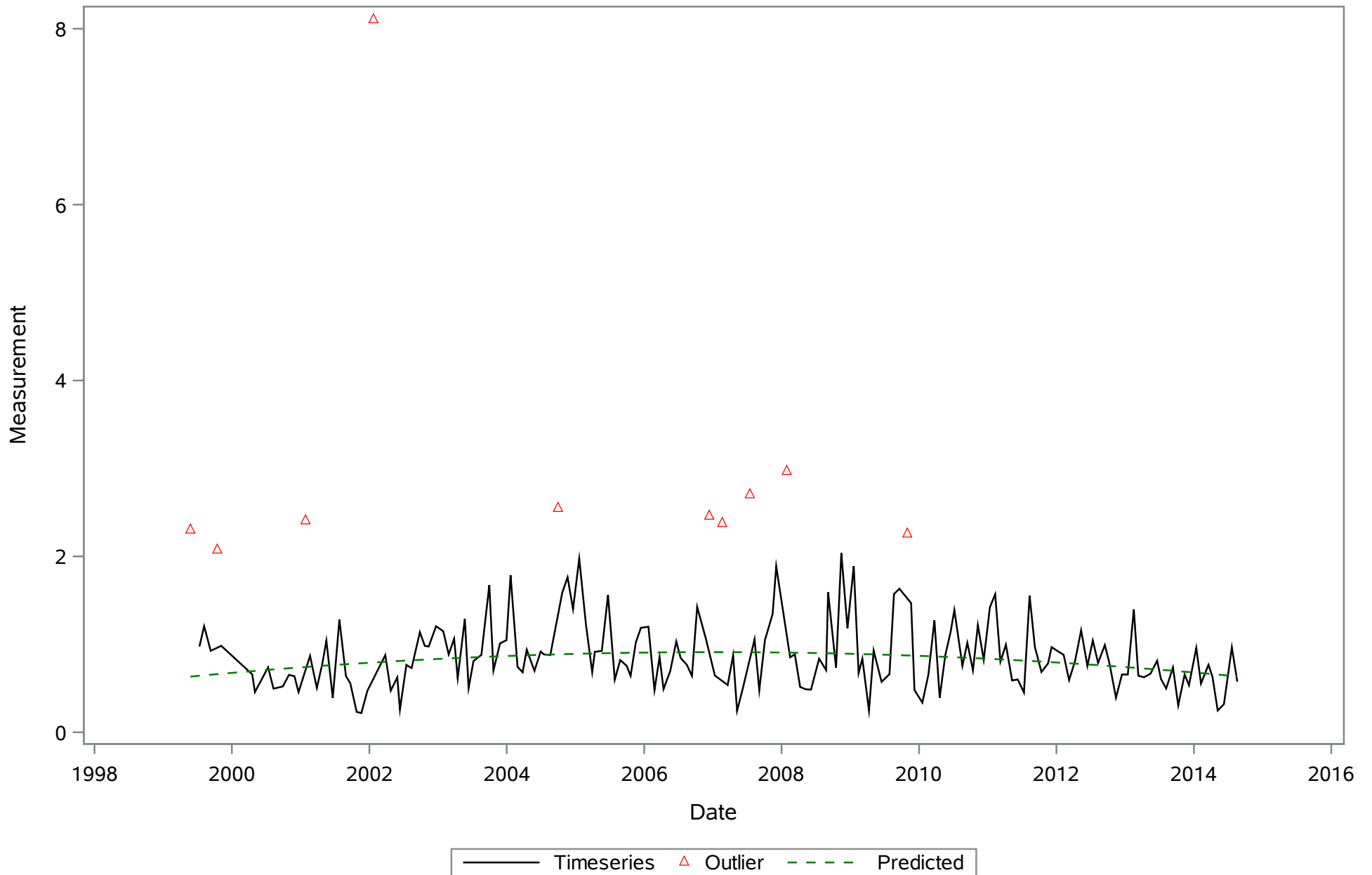
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Depth (Total) Meters



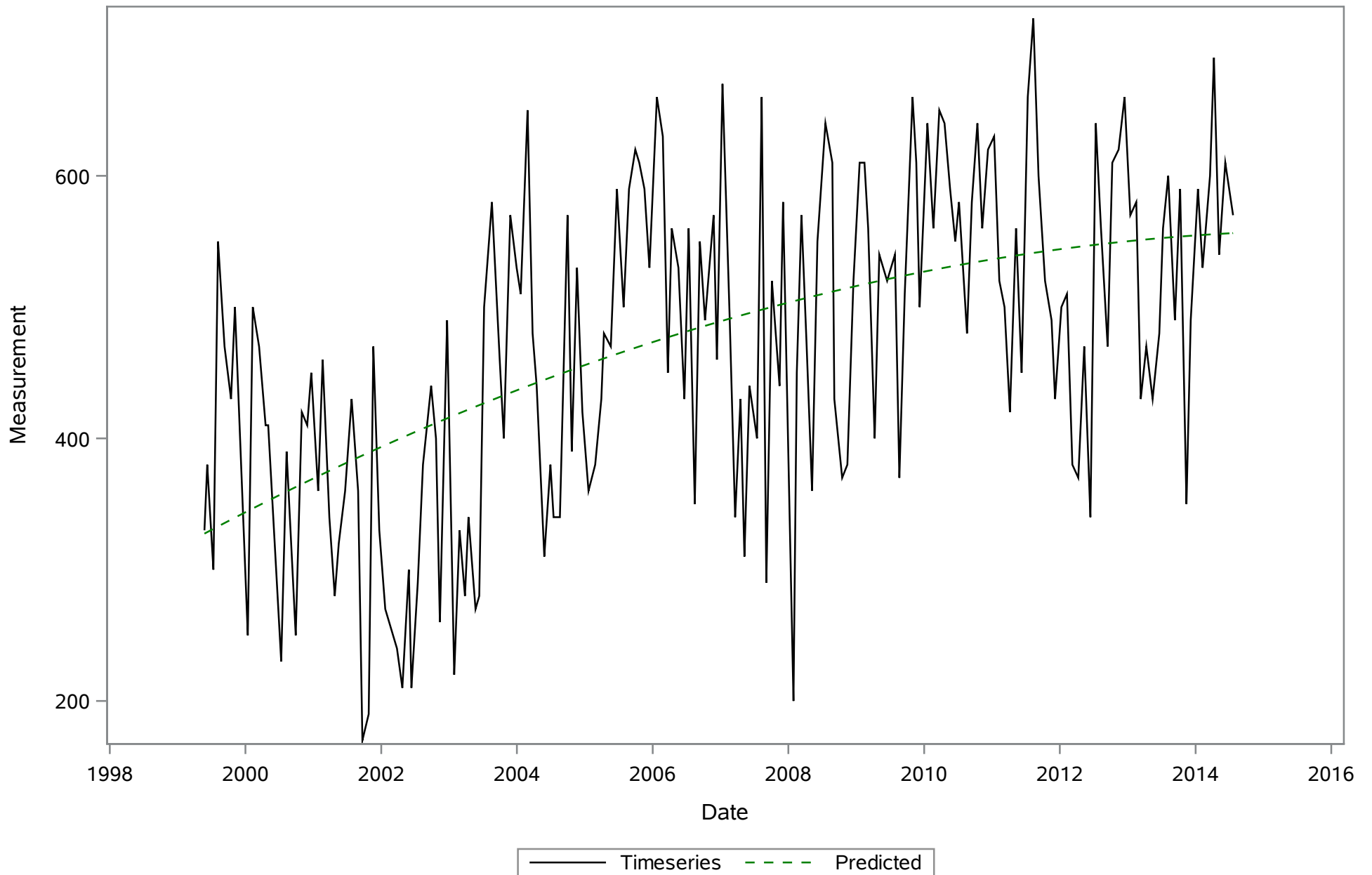
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L



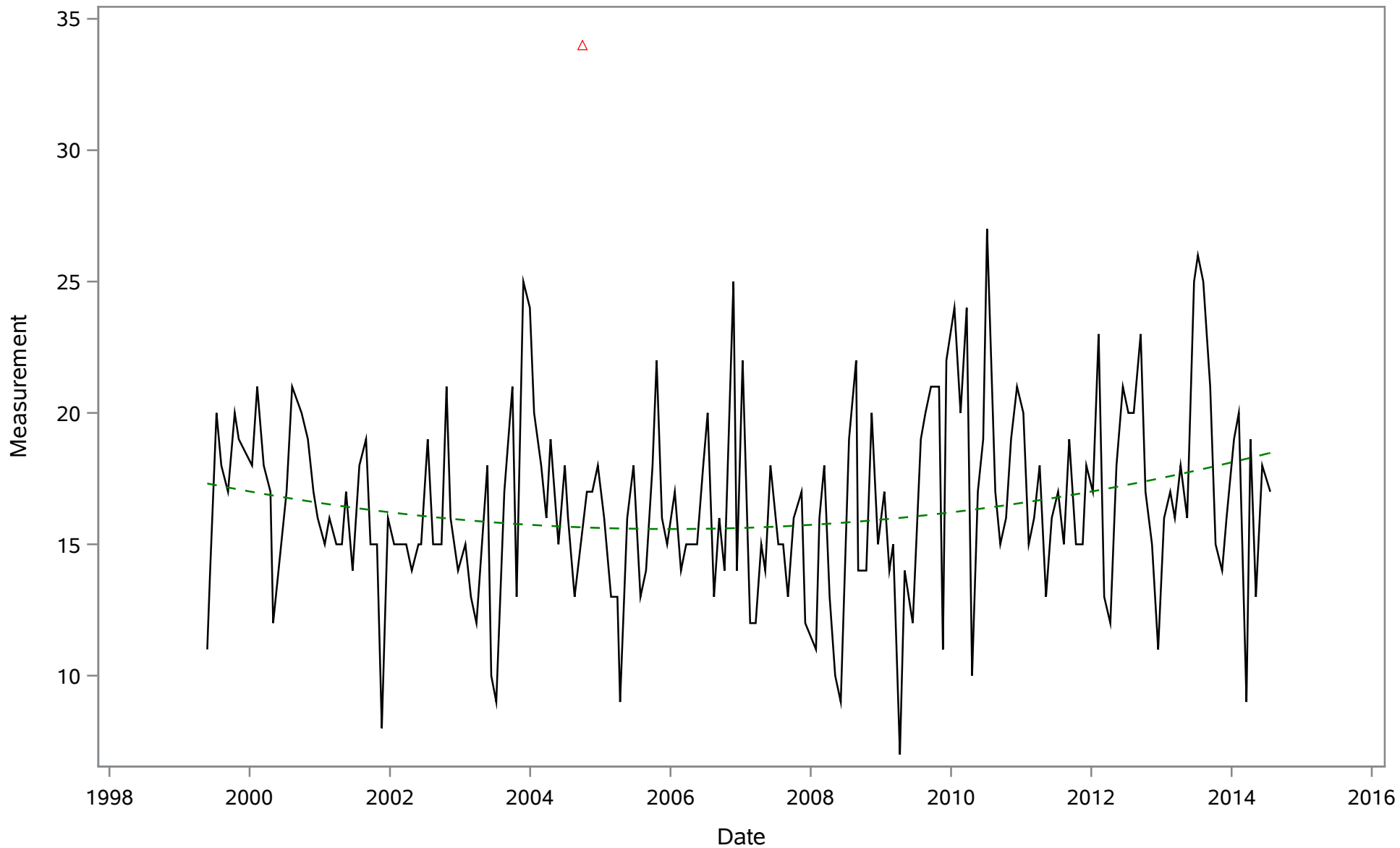
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L

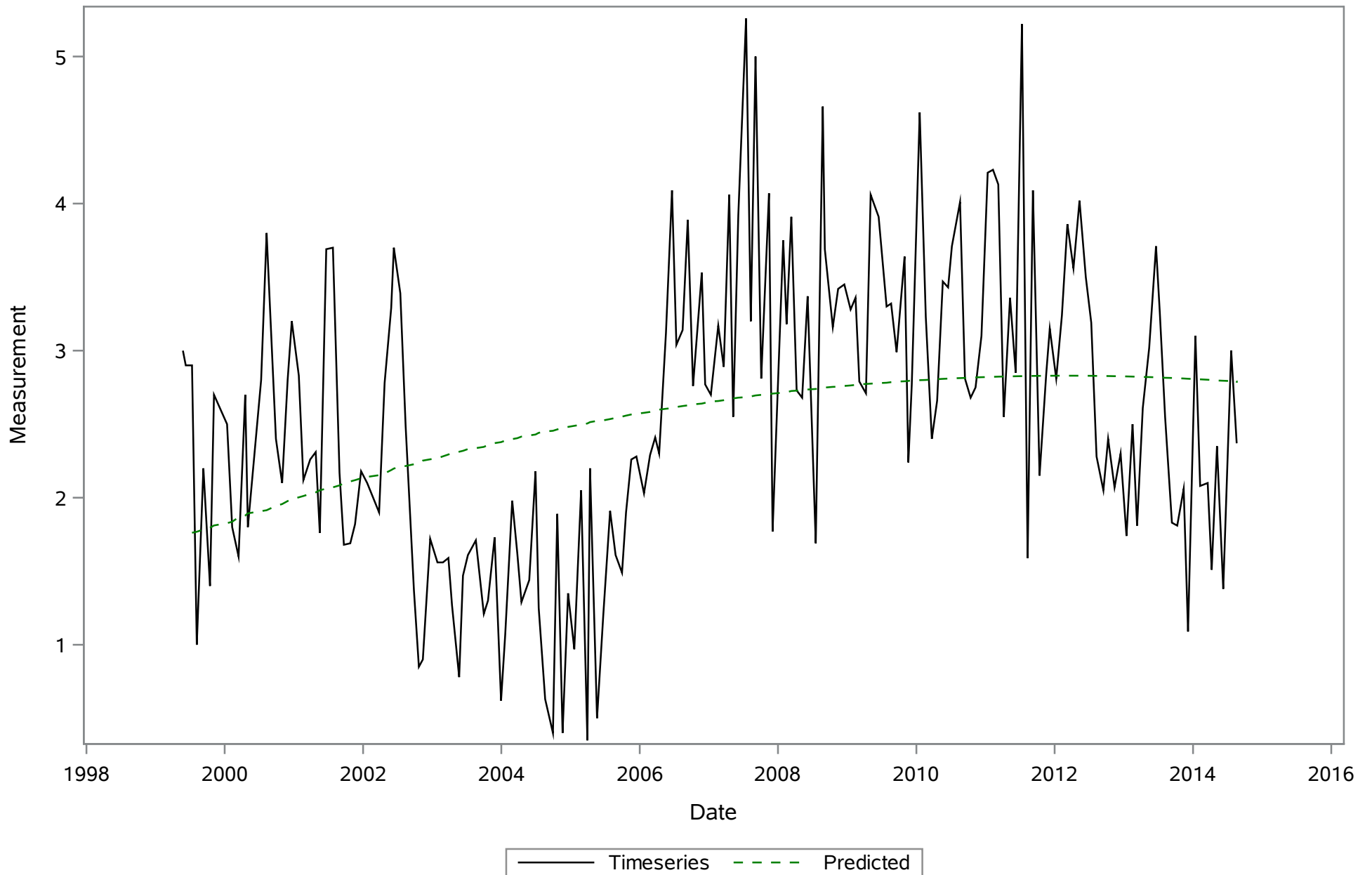


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L

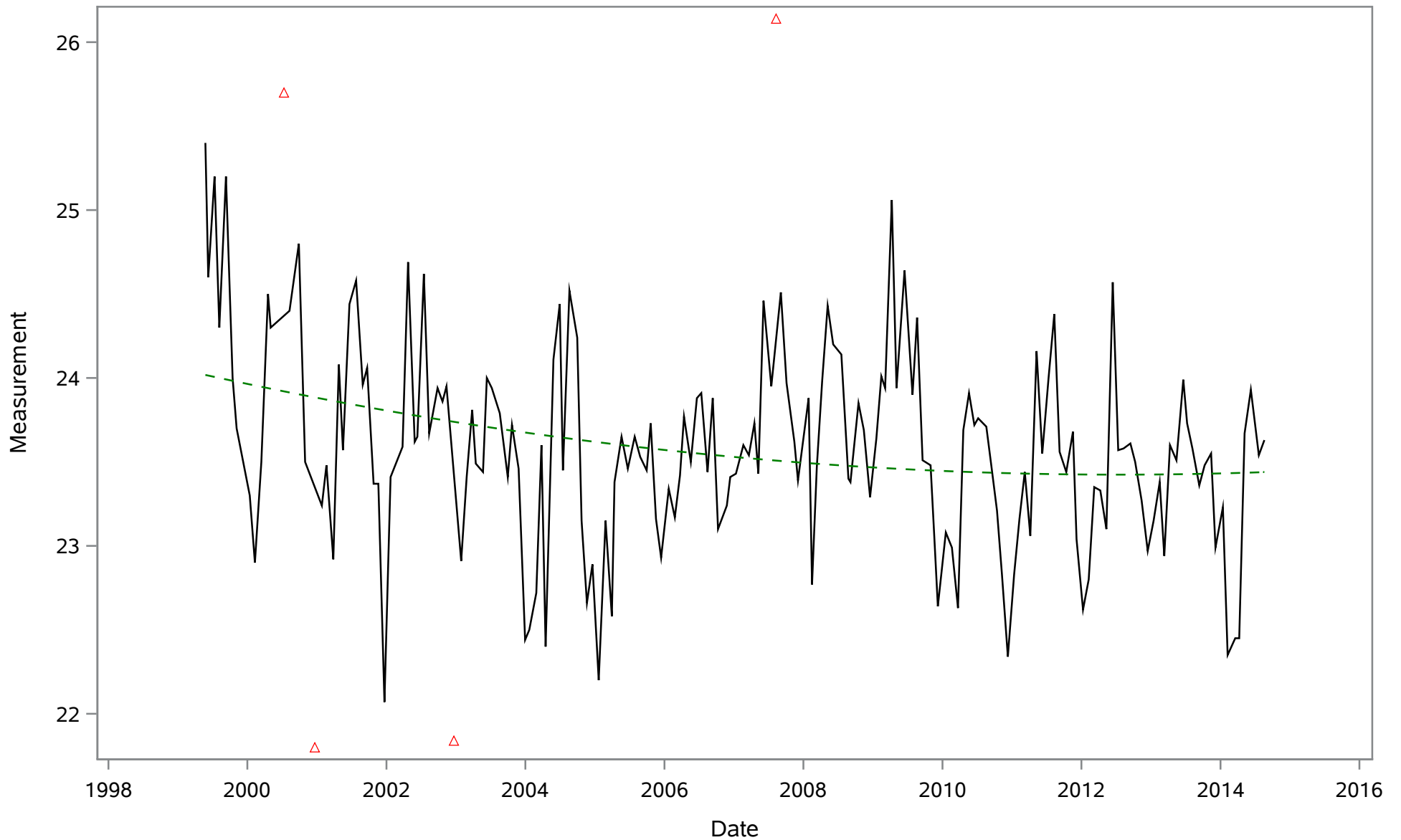


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Salinity (Total) ppt

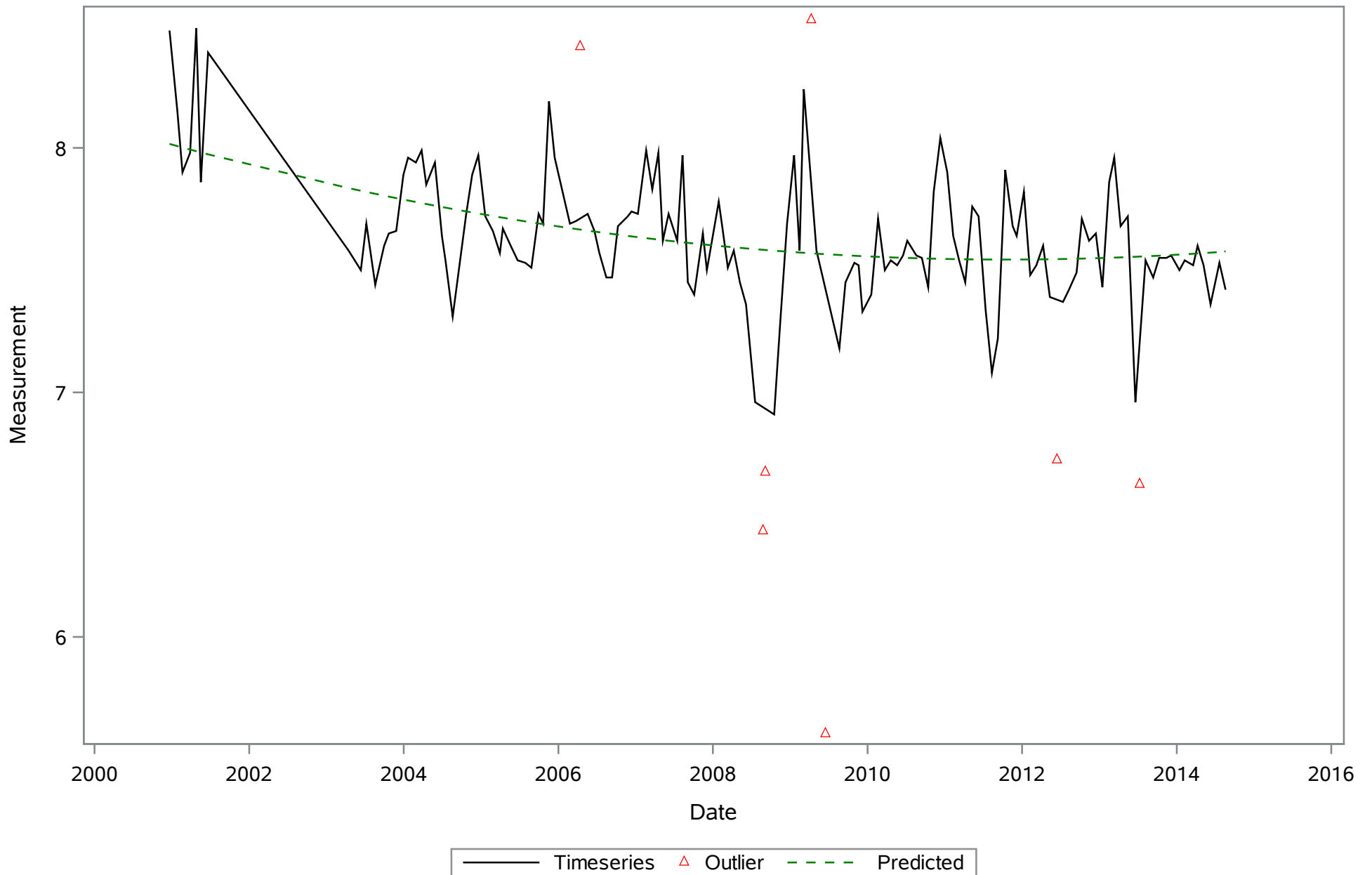


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Temperature (Total) Deg. C

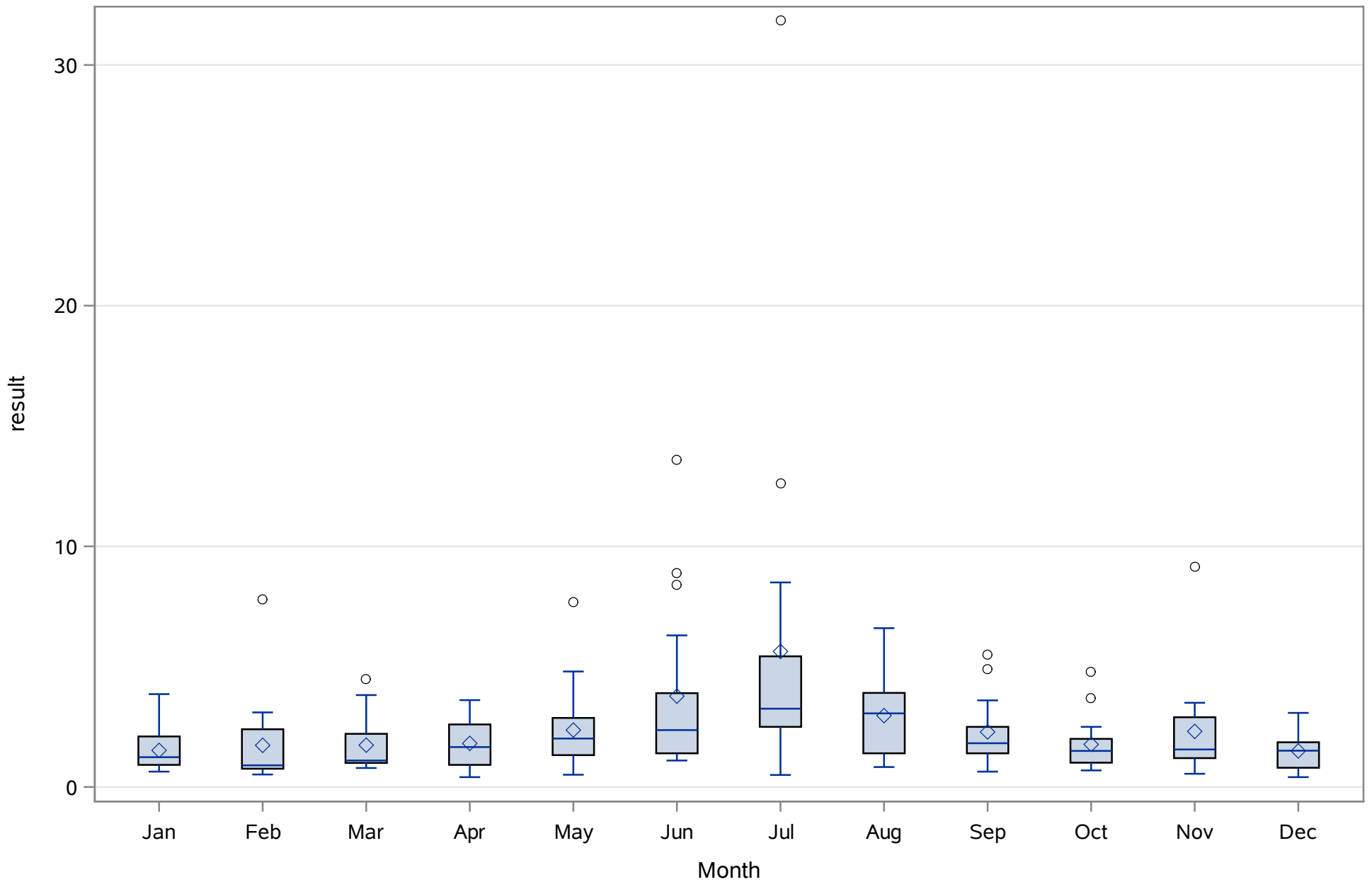


— Timeseries △ Outlier - - - Predicted

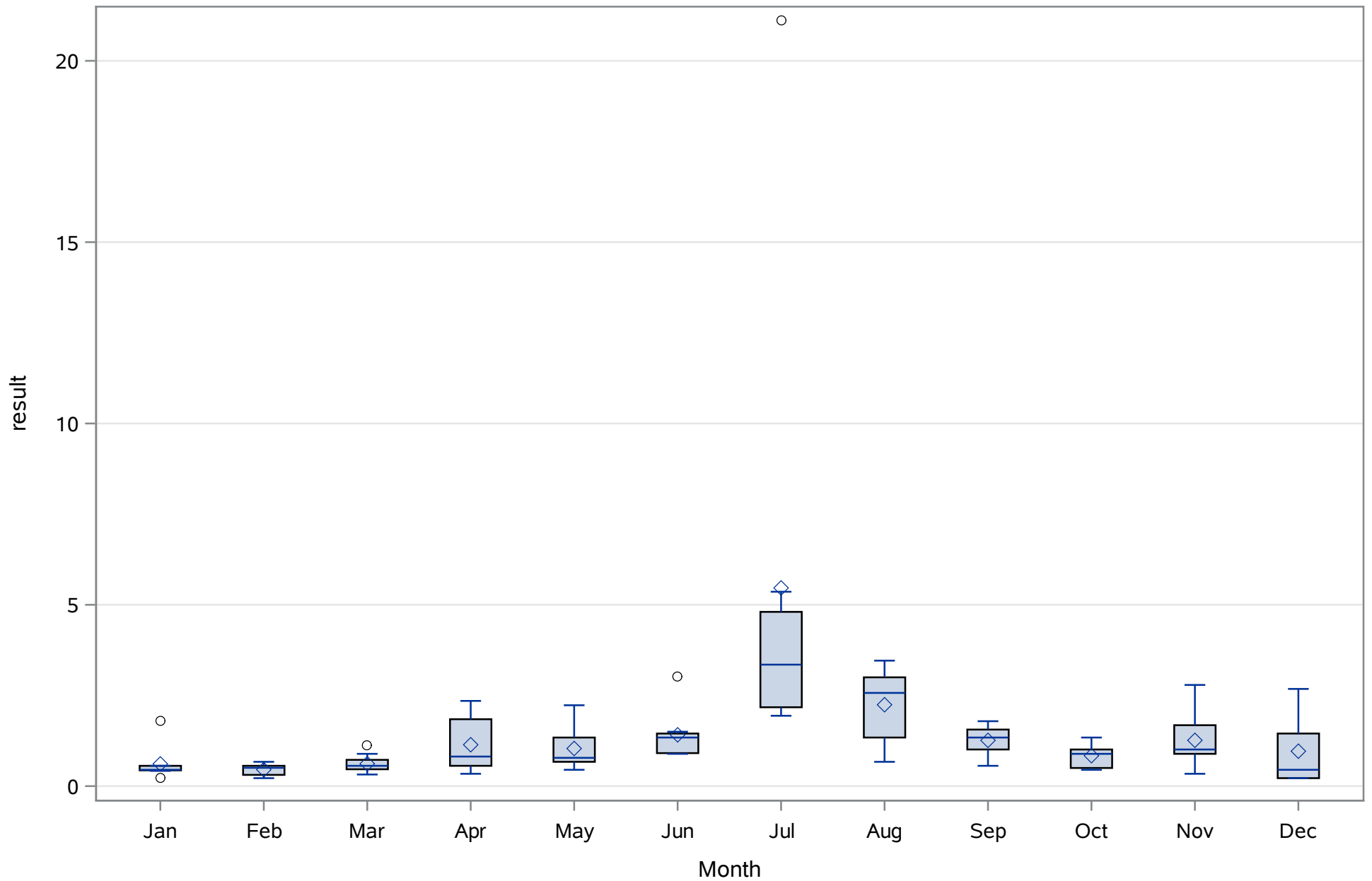
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
pH (Total) SU



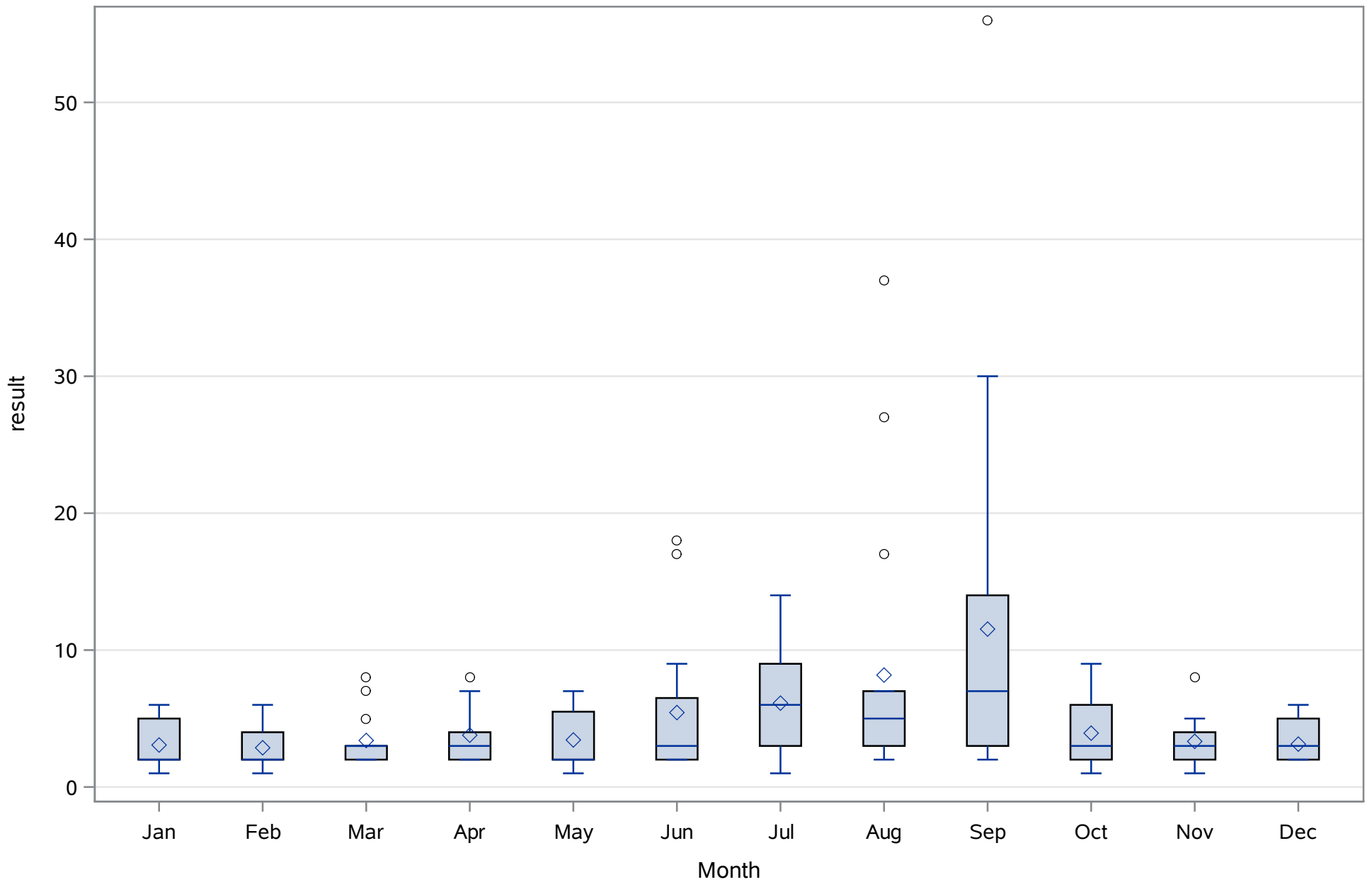
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Chlorophyll (Total) ug/L



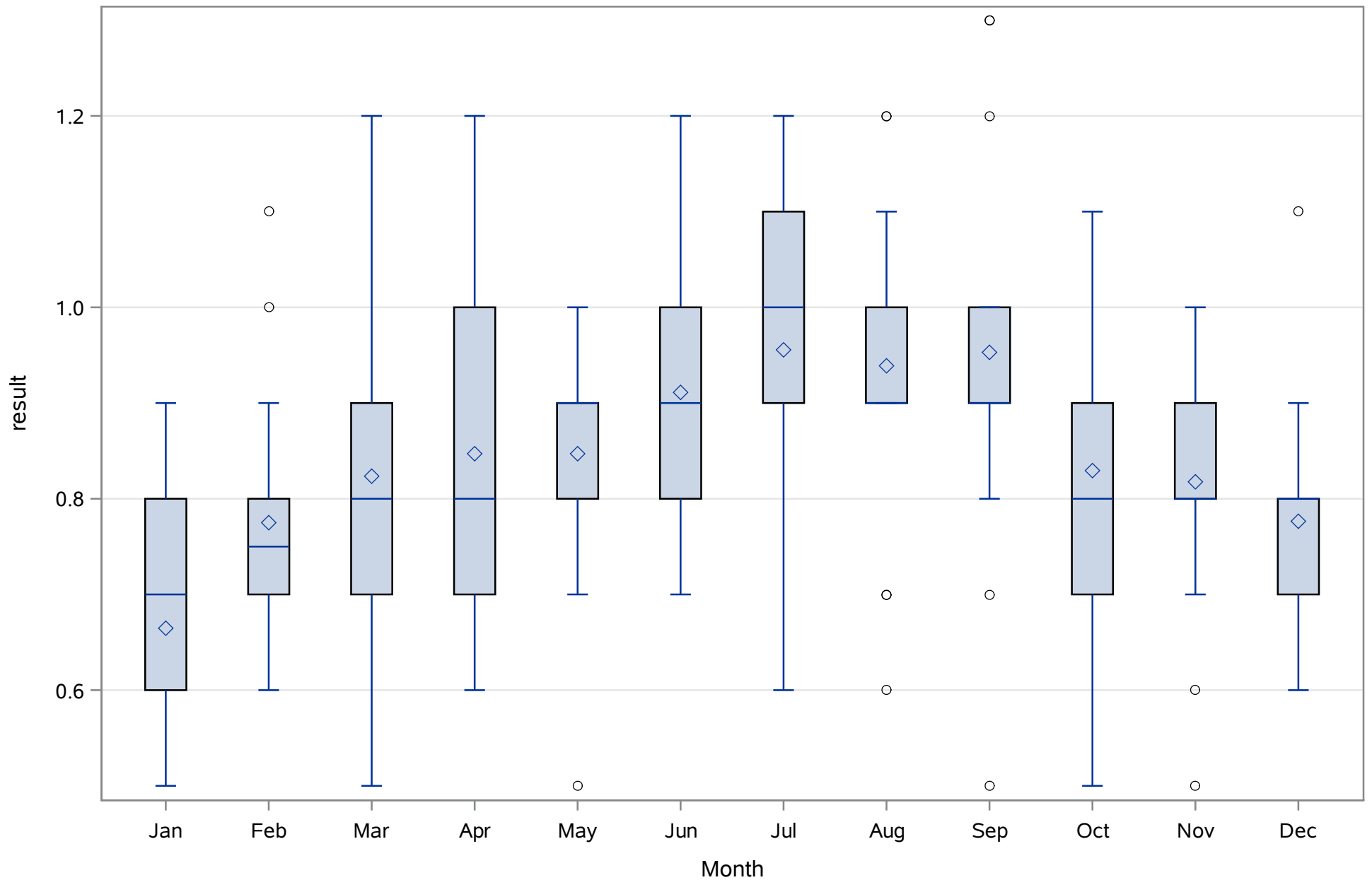
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Chlorophyll a (Total) ug/L



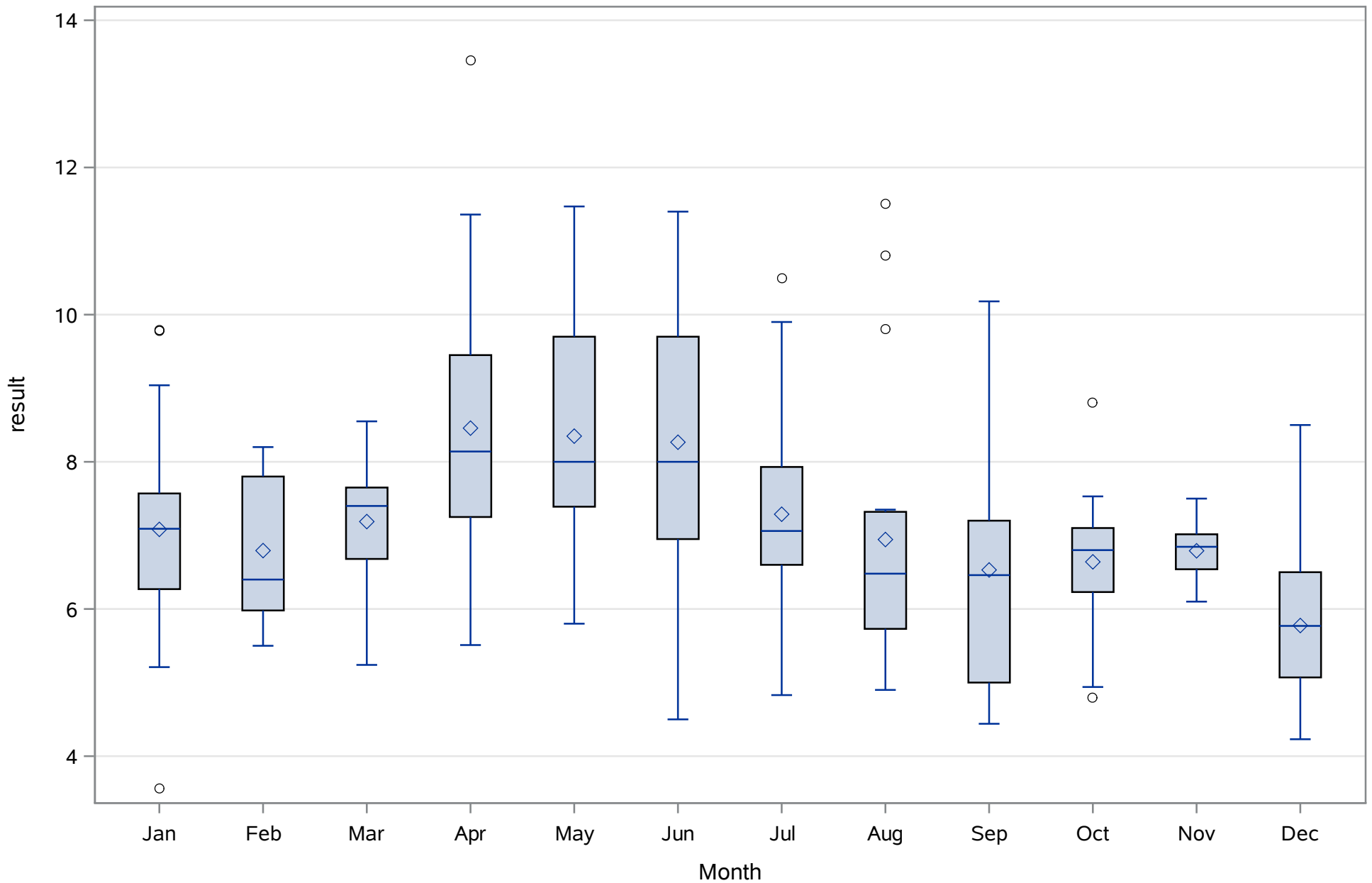
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Color (Total) PCU



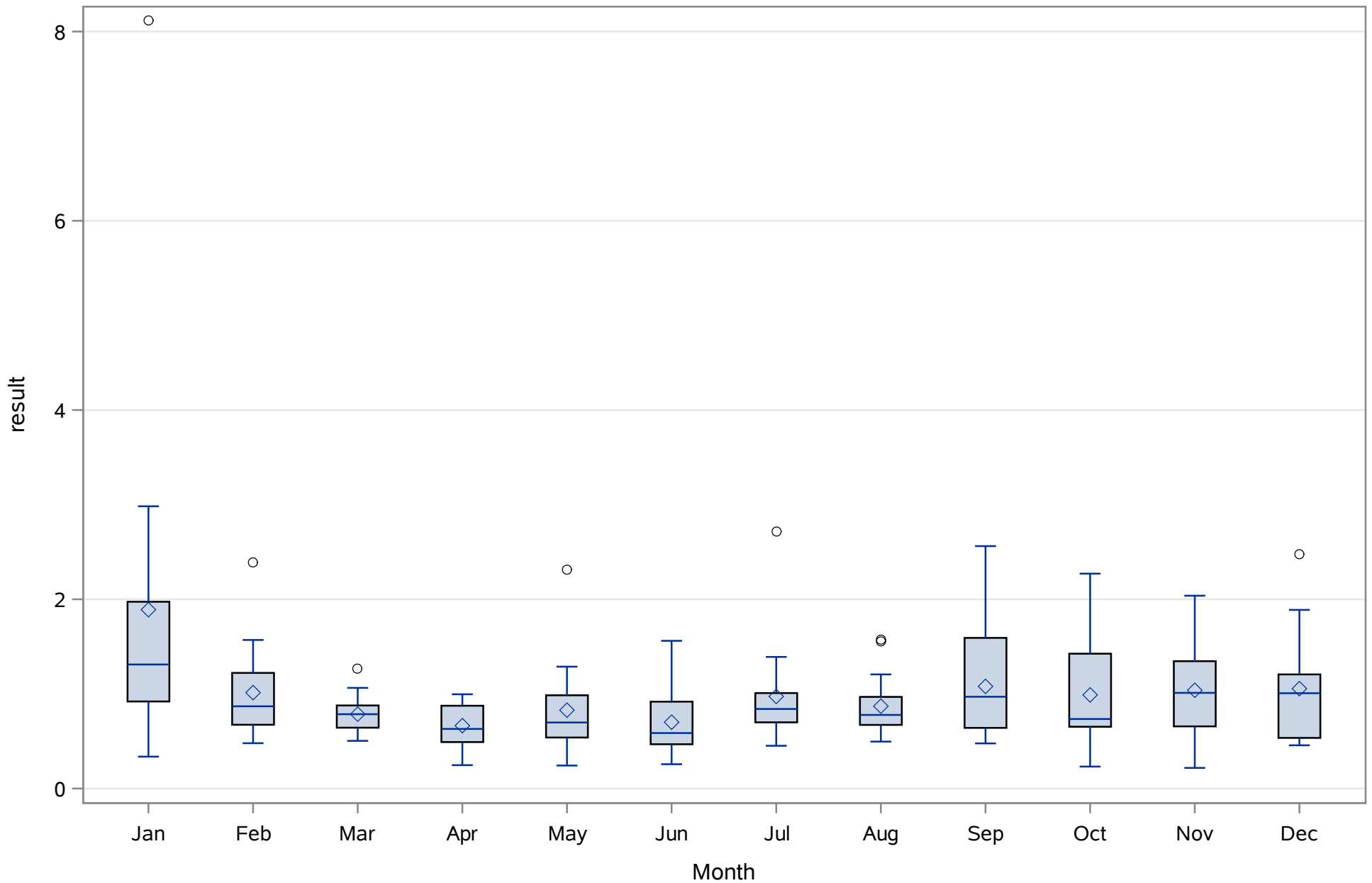
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Depth (Total) Meters



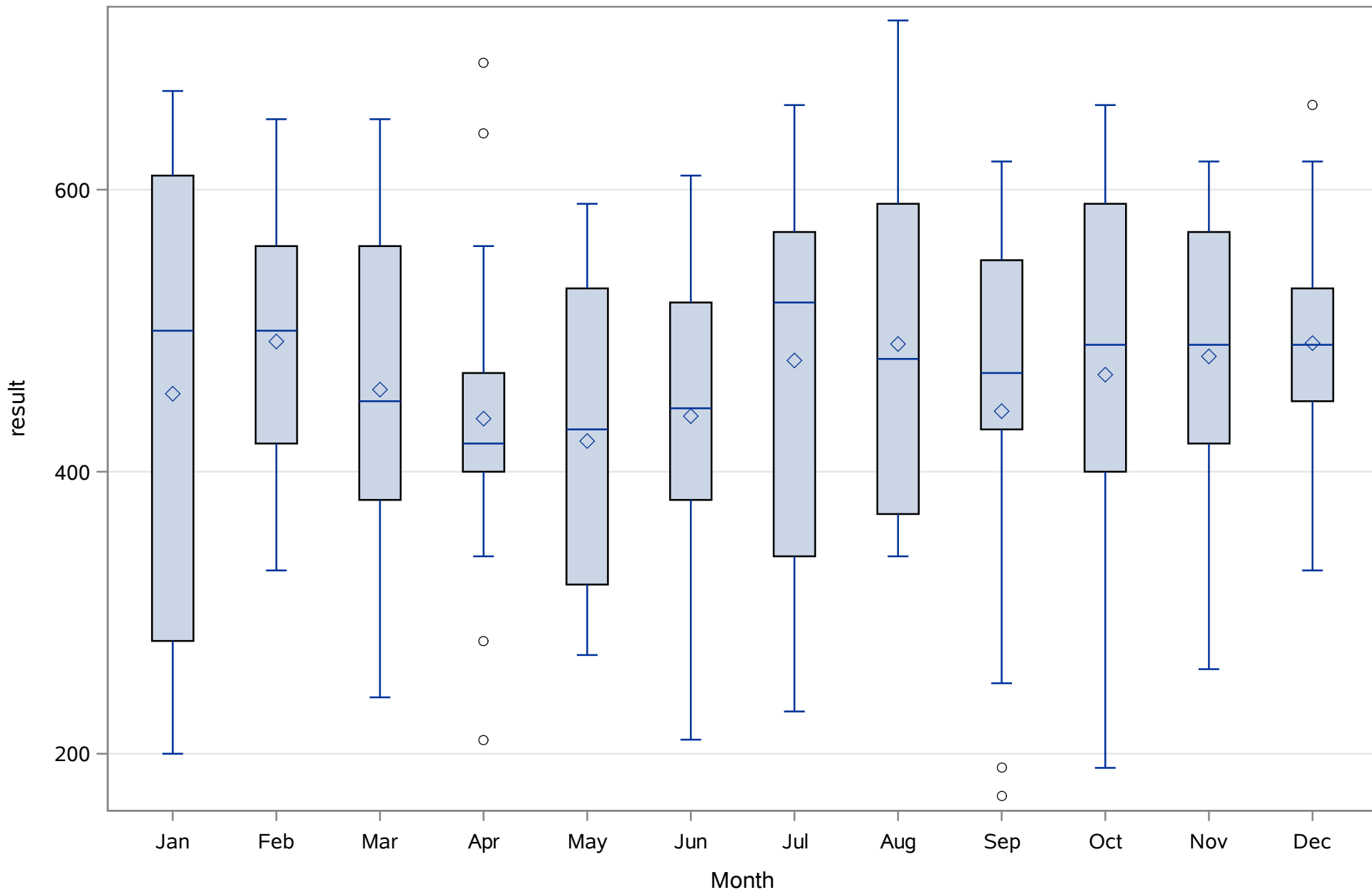
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L



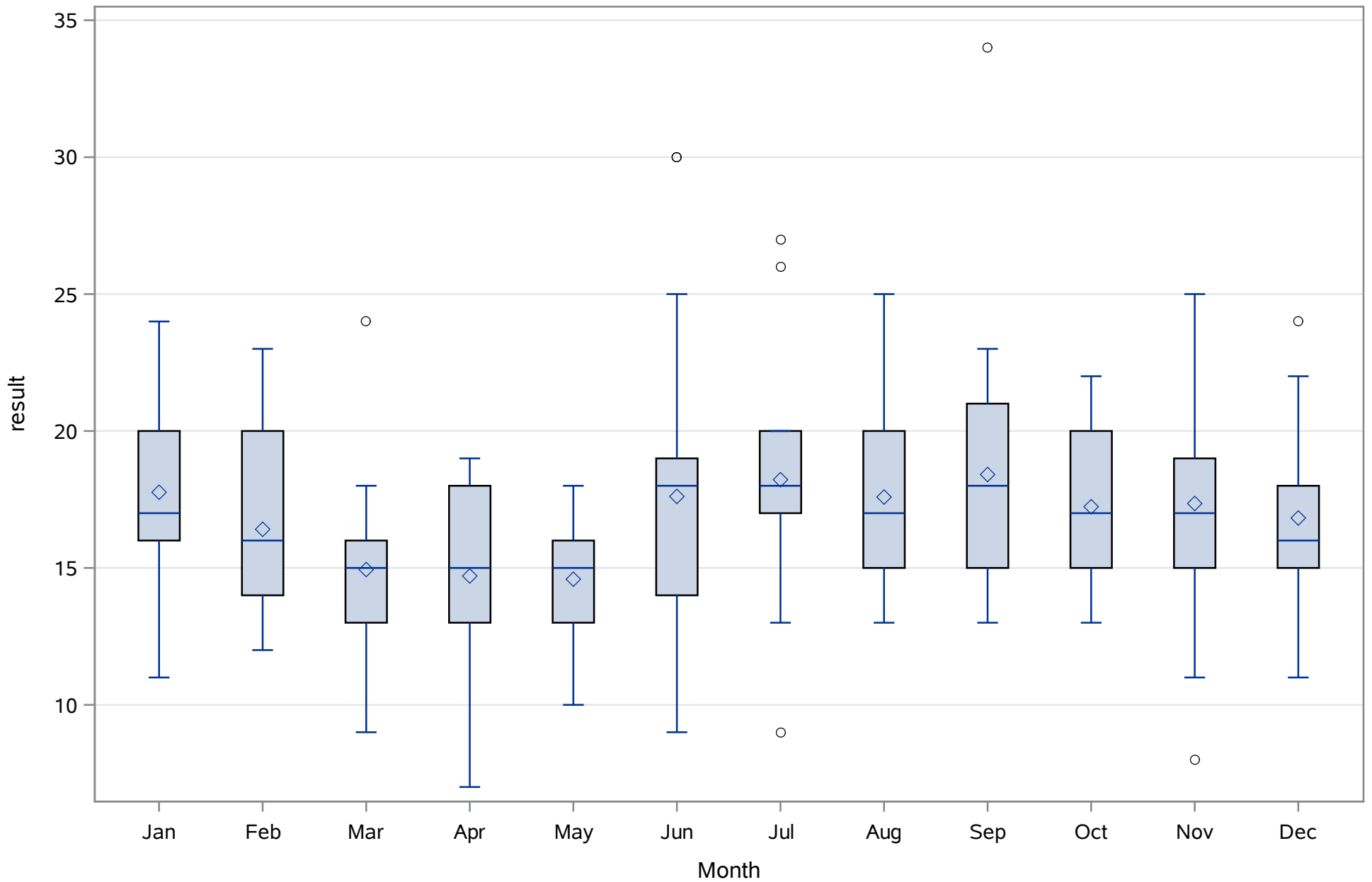
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m



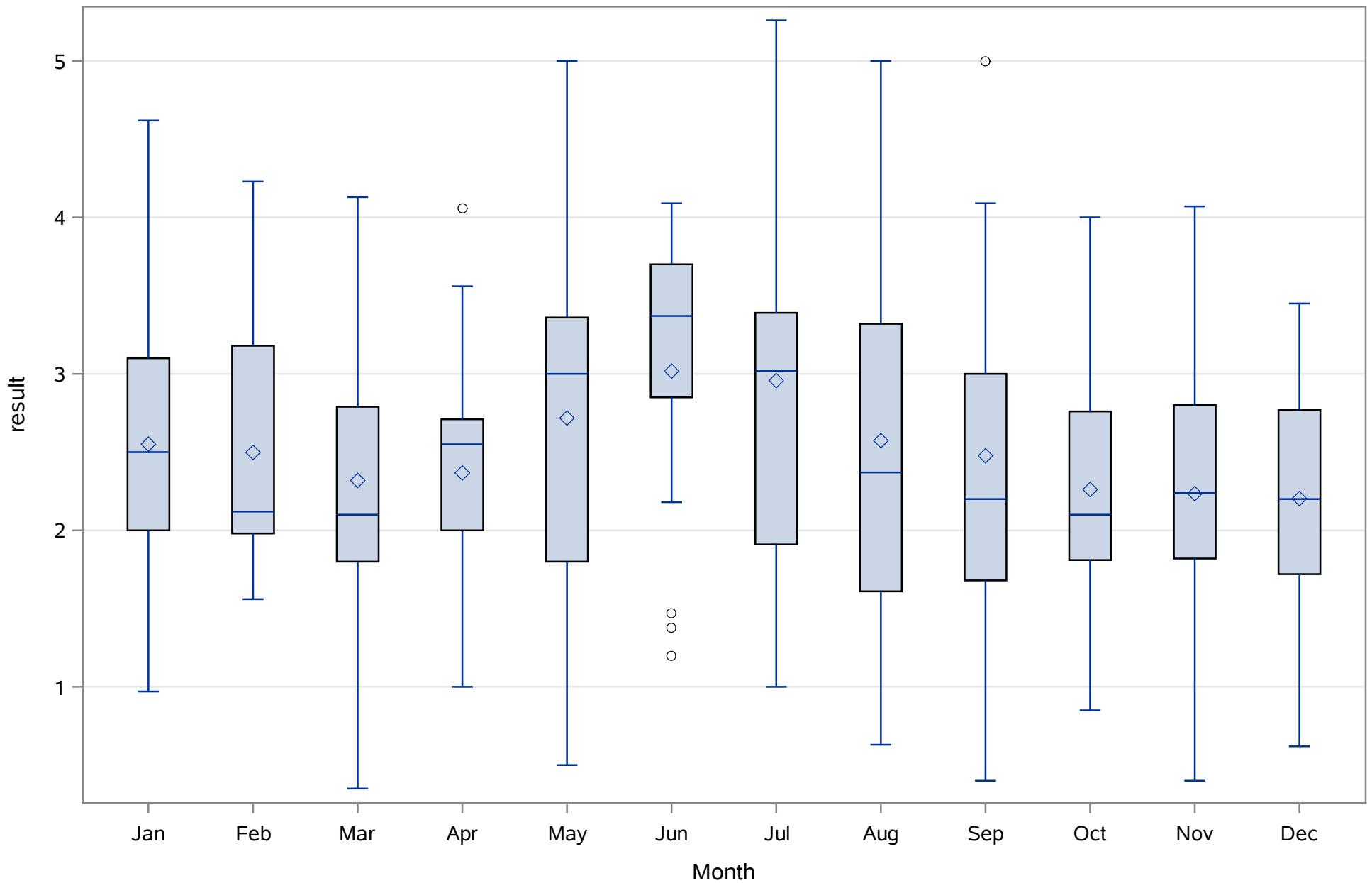
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L



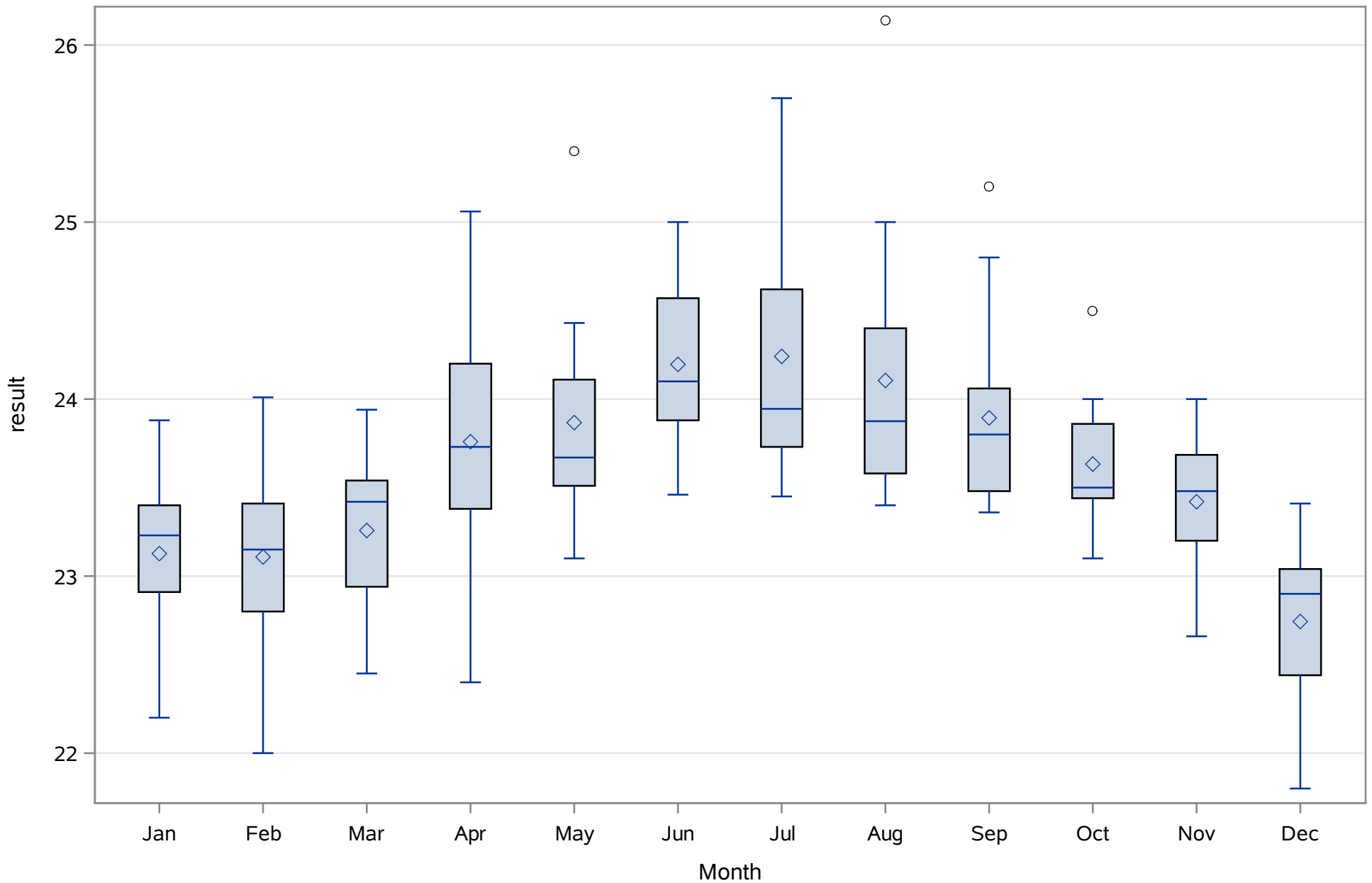
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L



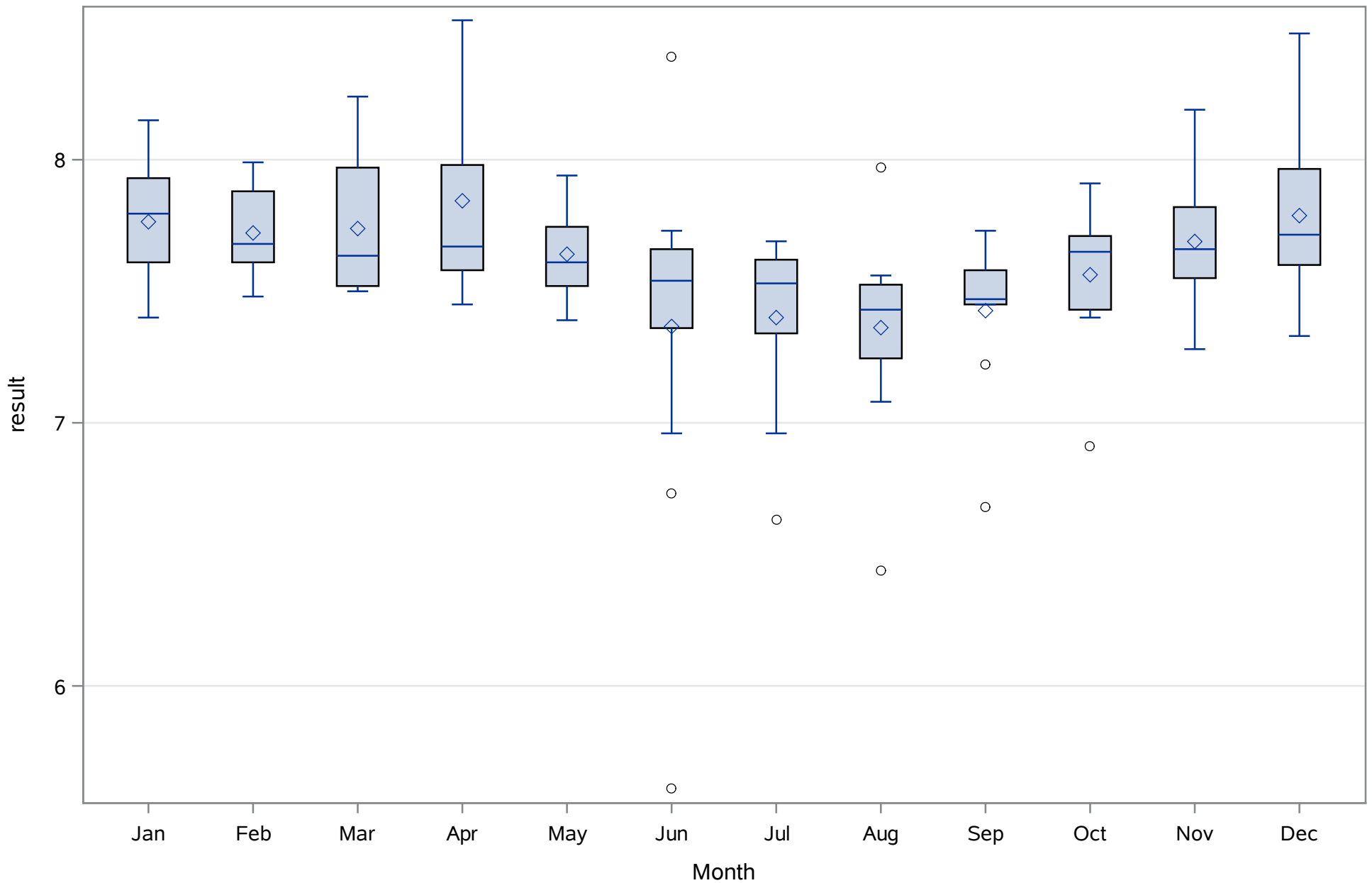
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Salinity (Total) ppt



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 1
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Chlorophyll (Total)	ug/L	JUN1997	AUG2014	205	7.3%	2.0%	2.4%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	9.9%	0.0%	1.1%
Color (Total)	PCU	MAY1999	AUG2014	183	5.5%	0.5%	3.3%
Depth (Total)	Meters	JUN1997	AUG2014	207	0.5%	1.9%	1.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	AUG2014	204	0.0%	2.0%	0.5%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	179	3.4%	1.1%	0.6%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	1.5%	1.9%	1.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	1.5%	1.9%	1.0%
Salinity (Total)	ppth	AUG1997	AUG2014	207	5.3%	1.0%	1.4%
Secchi-vertical (Total)	Meters	JUN1997	AUG2014	123	0.8%	1.6%	0.0%
Temperature (Total)	Deg. C	JUN1997	AUG2014	206	0.0%	1.9%	0.0%
pH (Total)	SU	DEC2000	AUG2014	142	1.4%	1.4%	0.7%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	9.02268293	Sum Observations	1849.65
Std Deviation	10.8094816	Variance	116.844893
Skewness	3.59630666	Kurtosis	15.8501406
Uncorrected SS	40525.1637	Corrected SS	23836.3582
Coeff Variation	119.803408	Std Error Mean	0.75496695

Basic Statistical Measures			
Location		Variability	
Mean	9.022683	Std Deviation	10.80948
Median	5.820000	Variance	116.84489
Mode	2.440000	Range	73.16000
		Interquartile Range	7.04000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.9511	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	74.40
99%	59.70
95%	29.06
90%	17.79
75% Q3	10.30
50% Median	5.82
25% Q1	3.26
10%	2.20
5%	1.75

Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 2

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.33
0% Min	1.24

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.24	163	41.80	74
1.30	14	57.40	63
1.33	140	59.70	73
1.33	128	72.95	193
1.46	199	74.40	71

Chassahowitzka River - Fixed Station

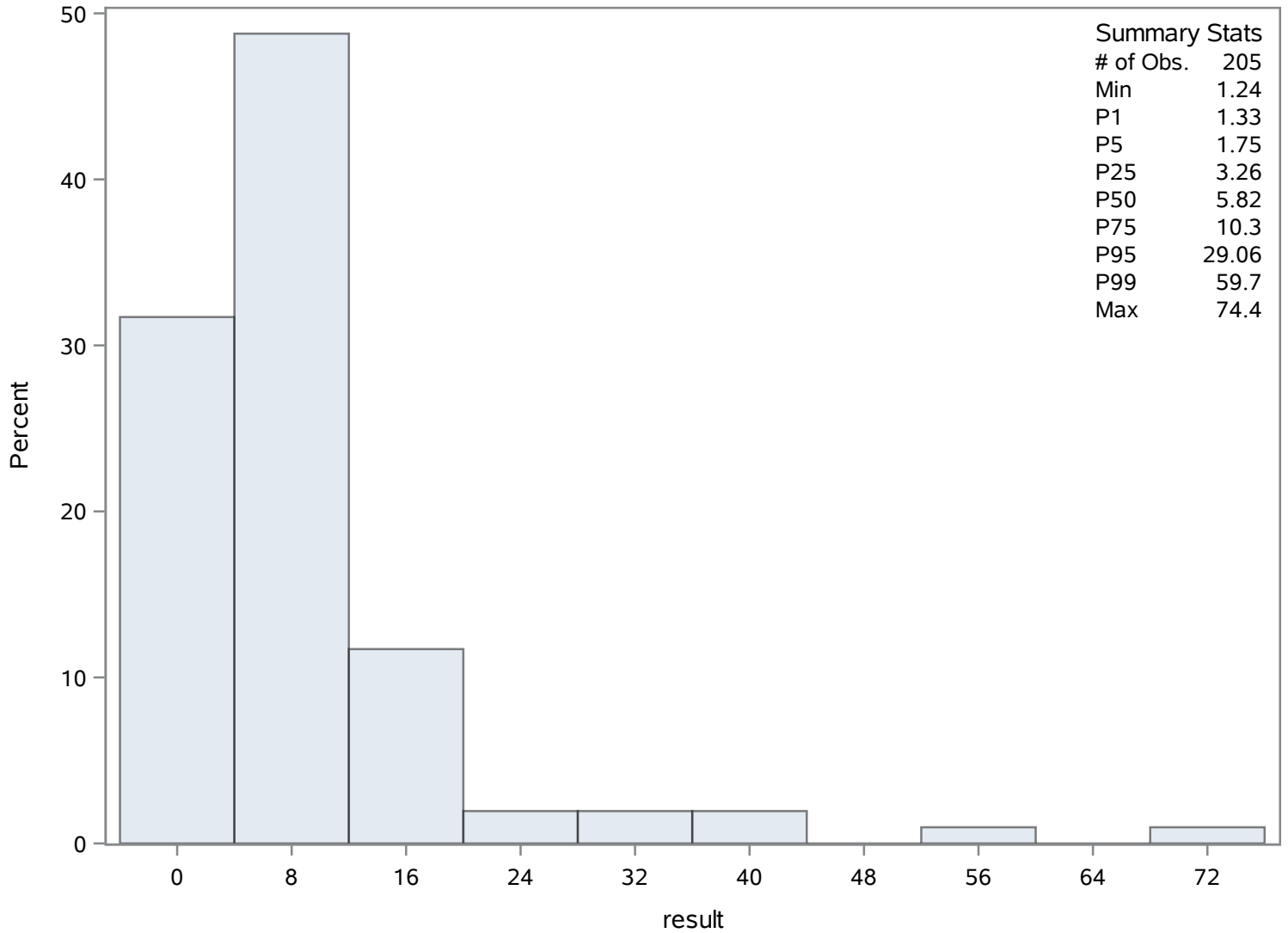
Source: COAST

Chassahowitzka Citrus 2

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	5.66912088	Sum Observations	515.89
Std Deviation	8.74524984	Variance	76.4793948
Skewness	5.6151346	Kurtosis	41.0809664
Uncorrected SS	9807.7883	Corrected SS	6883.14553
Coeff Variation	154.261128	Std Error Mean	0.91675128

Basic Statistical Measures			
Location		Variability	
Mean	5.669121	Std Deviation	8.74525
Median	3.020000	Variance	76.47939
Mode	1.230000	Range	73.18000
		Interquartile Range	4.47000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.183925	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	73.74
99%	73.74
95%	17.09
90%	13.85
75% Q3	6.03
50% Median	3.02
25% Q1	1.56
10%	1.12
5%	0.78

Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 2

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.56
0% Min	0.56

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.56	280	17.09	270
0.67	219	17.14	223
0.74	290	17.60	286
0.78	278	26.03	211
0.78	254	73.74	284

Chassahowitzka River - Fixed Station

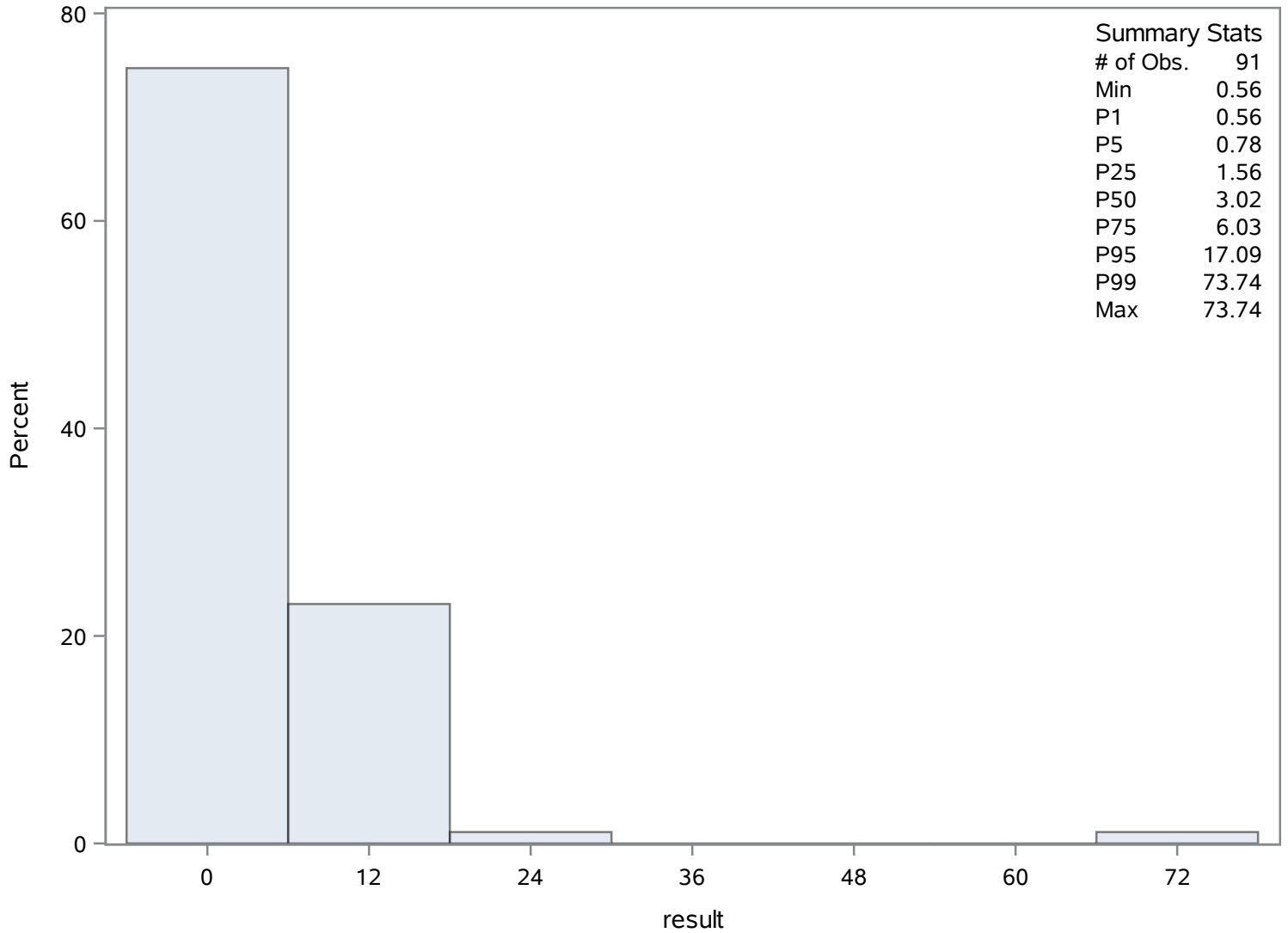
Source: COAST

Chassahowitzka Citrus 2

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	183	Sum Weights	183
Mean	23.8797814	Sum Observations	4370
Std Deviation	23.2274179	Variance	539.512941
Skewness	3.27852345	Kurtosis	14.0023025
Uncorrected SS	202546	Corrected SS	98191.3552
Coeff Variation	97.2681343	Std Error Mean	1.71702014

Basic Statistical Measures			
Location		Variability	
Mean	23.87978	Std Deviation	23.22742
Median	18.00000	Variance	539.51294
Mode	7.00000	Range	171.00000
		Interquartile Range	18.00000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.90769	Pr > t 	<.0001
Sign	M	91.5	Pr >= M 	<.0001
Signed Rank	S	8418	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	175
99%	126
95%	57
90%	45
75% Q3	28
50% Median	18
25% Q1	10
10%	7
5%	7

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	4
0% Min	4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	436	97	455
4	390	107	408
4	389	122	361
4	330	126	324
5	435	175	443

Chassahowitzka River - Fixed Station

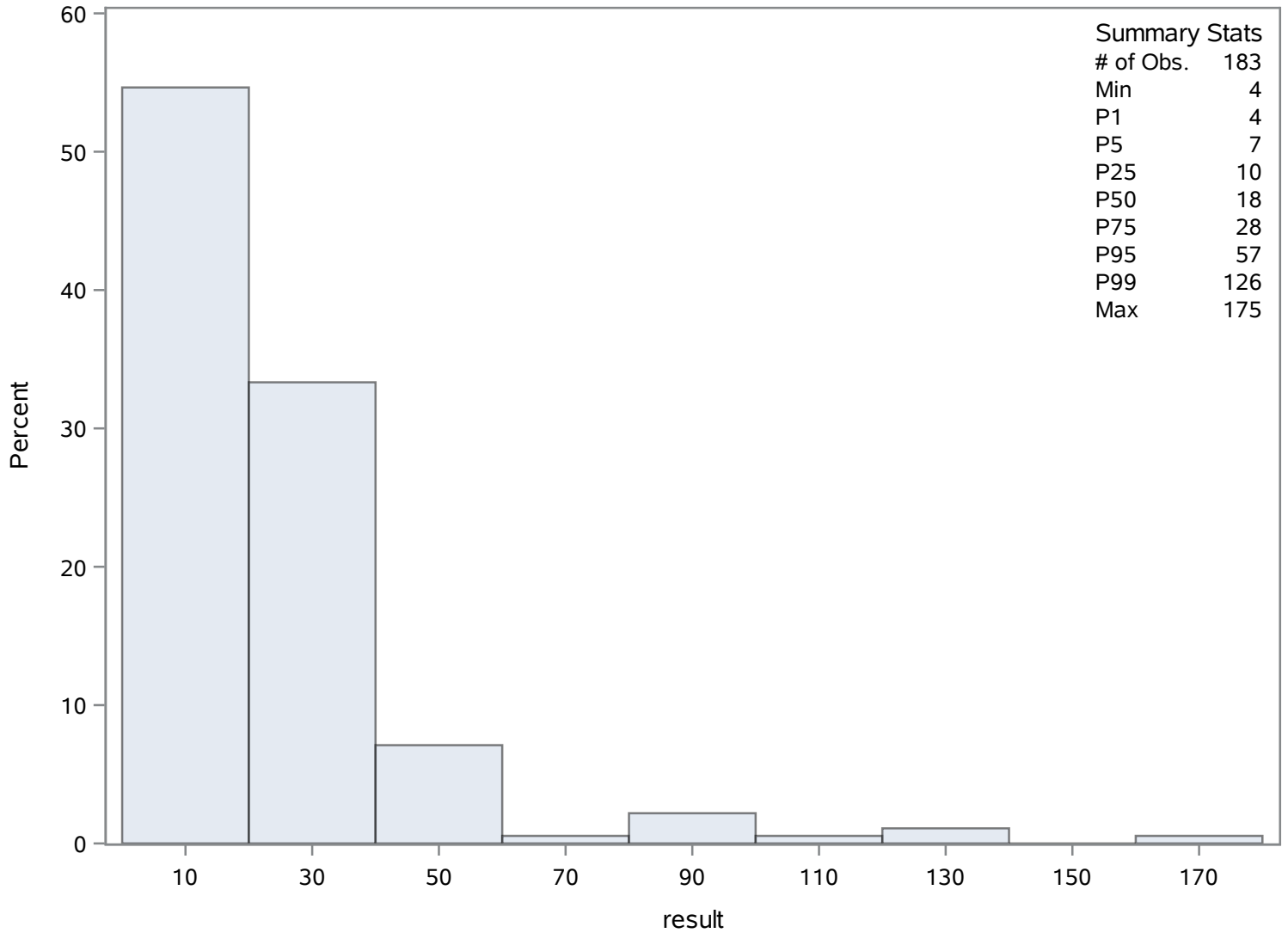
Source: COAST

Chassahowitzka Citrus 2

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	1.57487923	Sum Observations	326
Std Deviation	0.39184262	Variance	0.15354064
Skewness	0.06949202	Kurtosis	1.29109597
Uncorrected SS	545.04	Corrected SS	31.629372
Coeff Variation	24.8808045	Std Error Mean	0.02723494

Basic Statistical Measures			
Location		Variability	
Mean	1.574879	Std Deviation	0.39184
Median	1.600000	Variance	0.15354
Mode	1.400000	Range	3.00000
		Interquartile Range	0.60000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	57.82568	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.2
99%	2.3
95%	2.2
90%	2.1
75% Q3	1.9
50% Median	1.6
25% Q1	1.3
10%	1.1
5%	1.0
1%	0.7
0% Min	0.2

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	582	2.2	587
0.6	514	2.2	617
0.7	629	2.3	686
0.7	497	2.7	481
0.8	643	3.2	483

Chassahowitzka River - Fixed Station

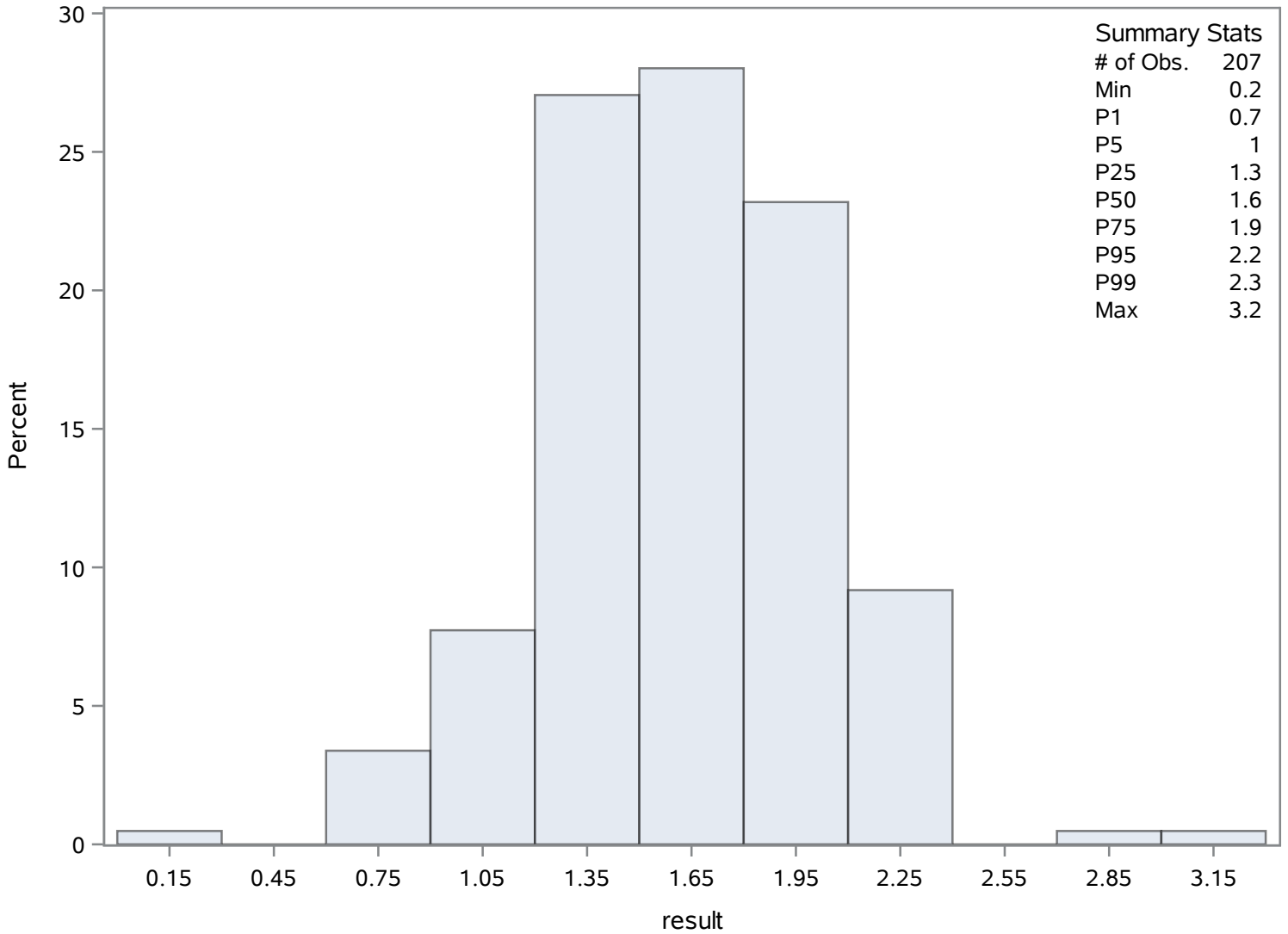
Source: COAST

Chassahowitzka Citrus 2

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	204	Sum Weights	204
Mean	6.25112745	Sum Observations	1275.23
Std Deviation	1.58085598	Variance	2.49910562
Skewness	0.28653417	Kurtosis	0.27942294
Uncorrected SS	8478.9437	Corrected SS	507.318441
Coeff Variation	25.2891337	Std Error Mean	0.11068206

Basic Statistical Measures			
Location		Variability	
Mean	6.251127	Std Deviation	1.58086
Median	6.160000	Variance	2.49911
Mode	4.590000	Range	9.42000
		Interquartile Range	2.07000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	56.47824	Pr > t 	<.0001
Sign	M	102	Pr >= M 	<.0001
Signed Rank	S	10455	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.800
99%	10.400
95%	8.800
90%	8.380
75% Q3	7.285
50% Median	6.160
25% Q1	5.215
10%	4.300
5%	3.700

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	2.950
0% Min	2.380

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.38	735	9.5	707
2.94	877	9.7	728
2.95	794	10.4	696
3.03	767	10.5	687
3.24	781	11.8	706

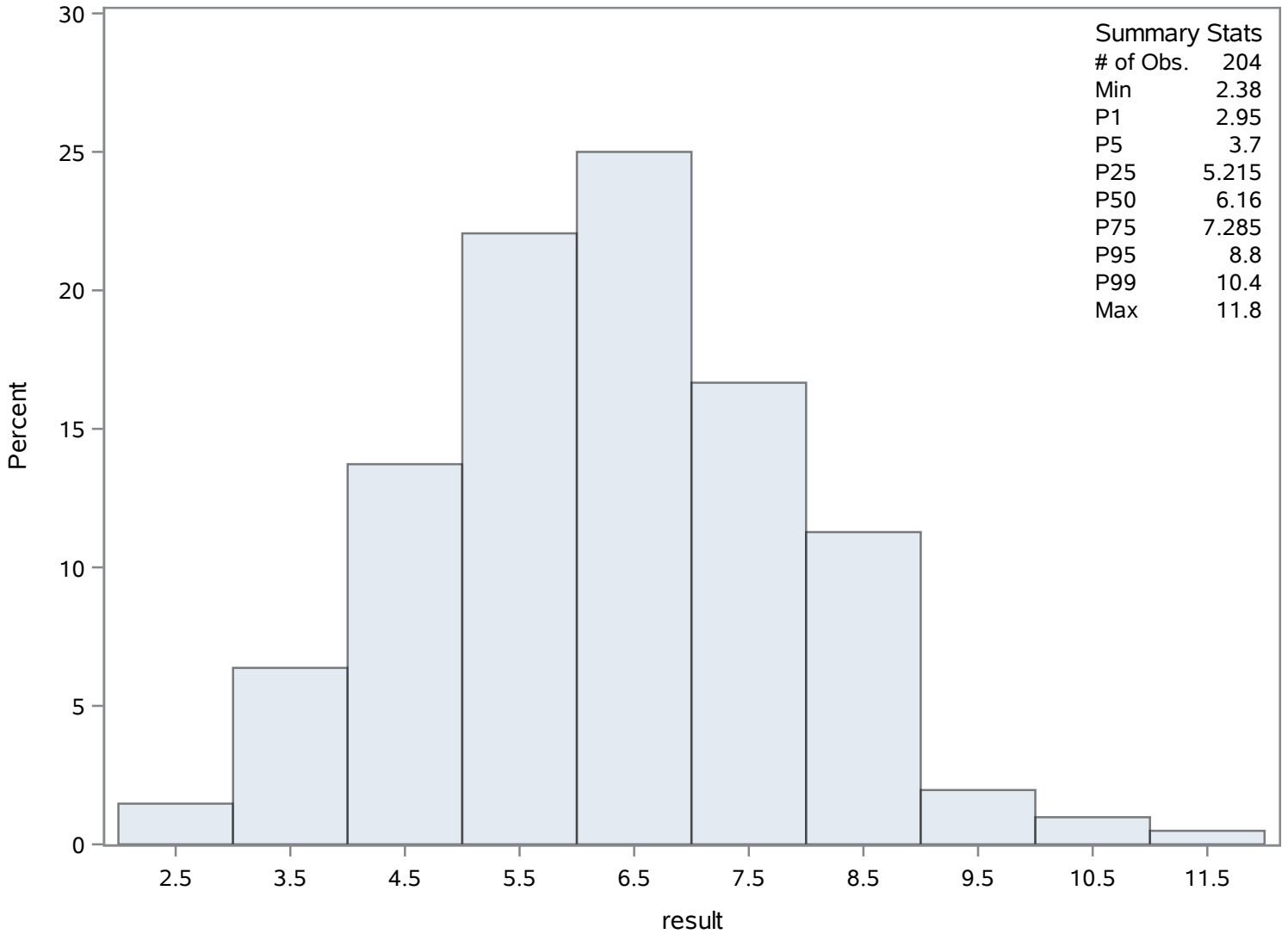
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 2 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	179	Sum Weights	179
Mean	1.95588268	Sum Observations	350.103
Std Deviation	0.80379734	Variance	0.64609016
Skewness	2.41594573	Kurtosis	11.4452792
Uncorrected SS	799.764443	Corrected SS	115.004049
Coeff Variation	41.0963983	Std Error Mean	0.06007863

Basic Statistical Measures			
Location		Variability	
Mean	1.955883	Std Deviation	0.80380
Median	1.793000	Variance	0.64609
Mode	1.490000	Range	6.84900
		Interquartile Range	0.73600

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.55538	Pr > t 	<.0001
Sign	M	89.5	Pr >= M 	<.0001
Signed Rank	S	8055	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.370
99%	4.288
95%	3.515
90%	2.923
75% Q3	2.225
50% Median	1.793
25% Q1	1.489
10%	1.212
5%	1.020

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

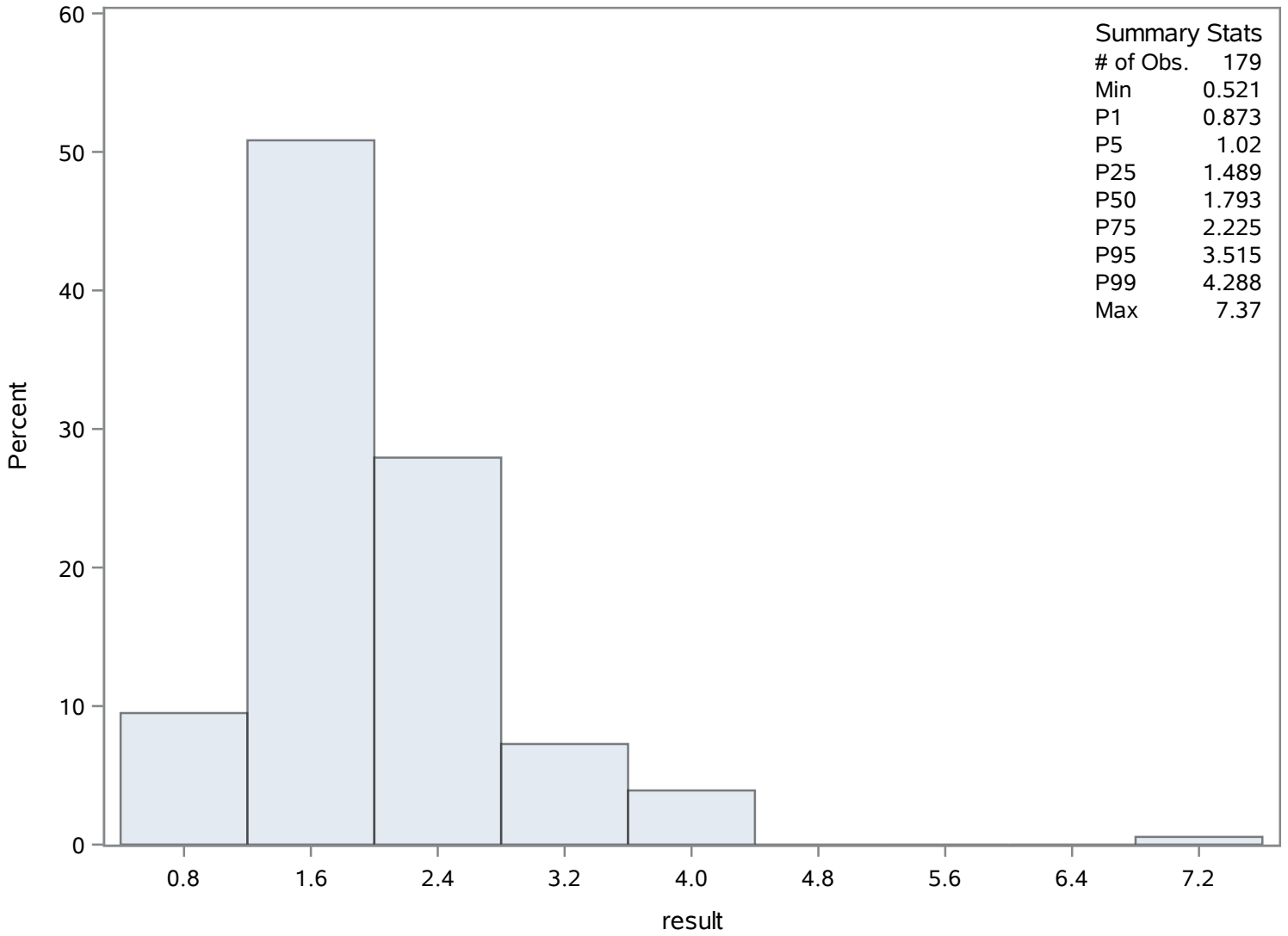
Quantiles (Definition 5)	
Level	Quantile
1%	0.873
0% Min	0.521

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.521	969	4.041	1009
0.873	924	4.194	1033
0.903	1003	4.274	937
0.951	978	4.288	950
0.955	907	7.370	976

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	434.708738	Sum Observations	89550
Std Deviation	159.592966	Variance	25469.9148
Skewness	0.76066594	Kurtosis	0.62012989
Uncorrected SS	44149500	Corrected SS	5221332.52
Coeff Variation	36.7126197	Std Error Mean	11.1193688

Basic Statistical Measures			
Location		Variability	
Mean	434.7087	Std Deviation	159.59297
Median	410.0000	Variance	25470
Mode	360.0000	Range	930.00000
		Interquartile Range	210.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	39.09473	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1030
99%	890
95%	730
90%	670
75% Q3	530
50% Median	410
25% Q1	320
10%	240
5%	210
1%	180
0% Min	100

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
100	1090	790	1070
160	1211	800	1217
180	1128	890	1102
190	1136	930	1204
190	1091	1030	1240

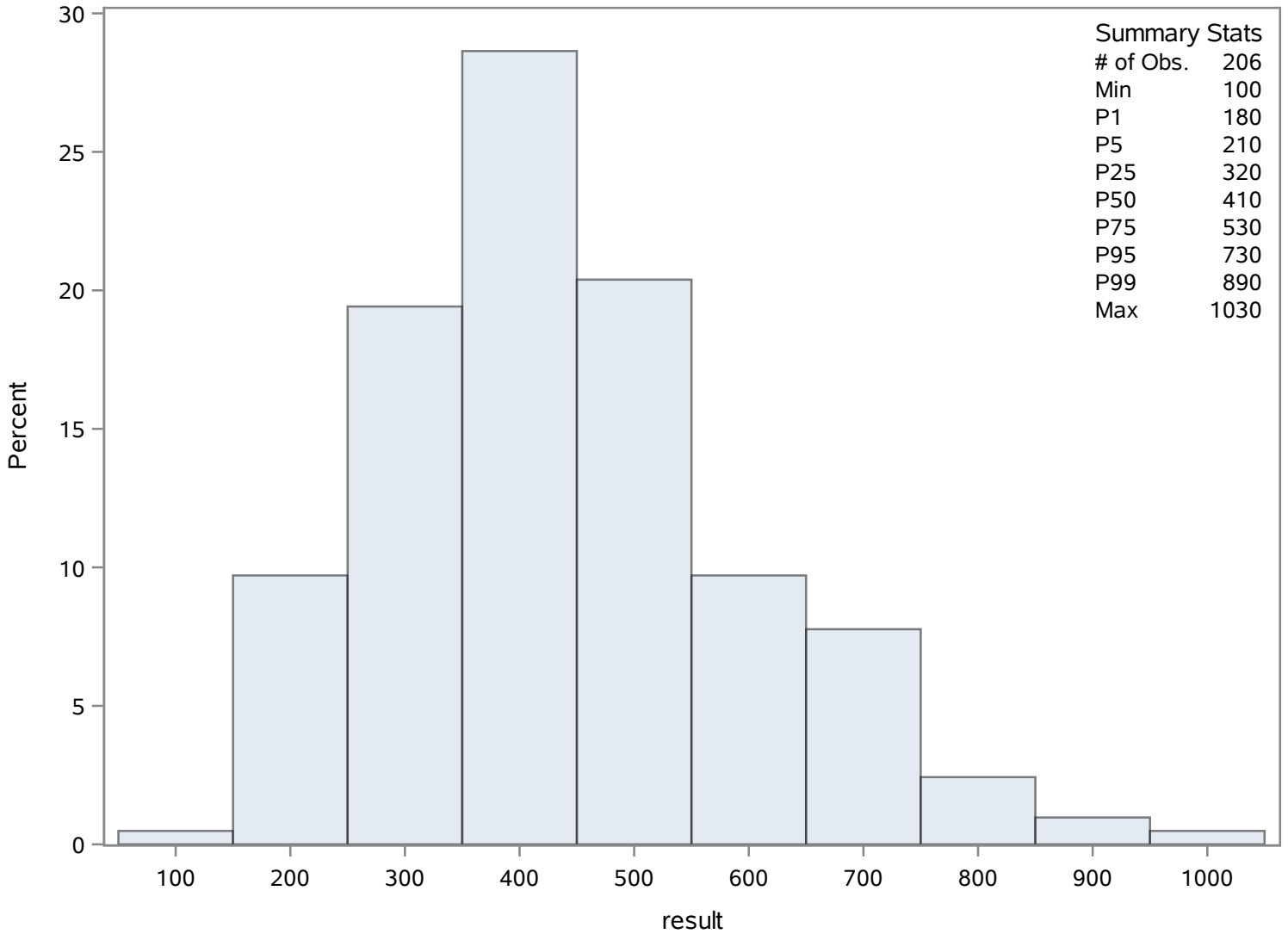
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 2 Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	25.0825243	Sum Observations	5167
Std Deviation	10.1725592	Variance	103.480961
Skewness	1.39474468	Kurtosis	2.87009094
Uncorrected SS	150815	Corrected SS	21213.5971
Coeff Variation	40.5563616	Std Error Mean	0.70875579

Basic Statistical Measures			
Location		Variability	
Mean	25.08252	Std Deviation	10.17256
Median	23.00000	Variance	103.48096
Mode	23.00000	Range	65.00000
		Interquartile Range	12.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	35.38952	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	74
99%	55
95%	45
90%	39
75% Q3	30
50% Median	23
25% Q1	18
10%	14
5%	13
1%	11
0% Min	9

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9	1477	51	1396
9	1294	52	1436
11	1450	55	1446
11	1365	59	1308
11	1297	74	1276

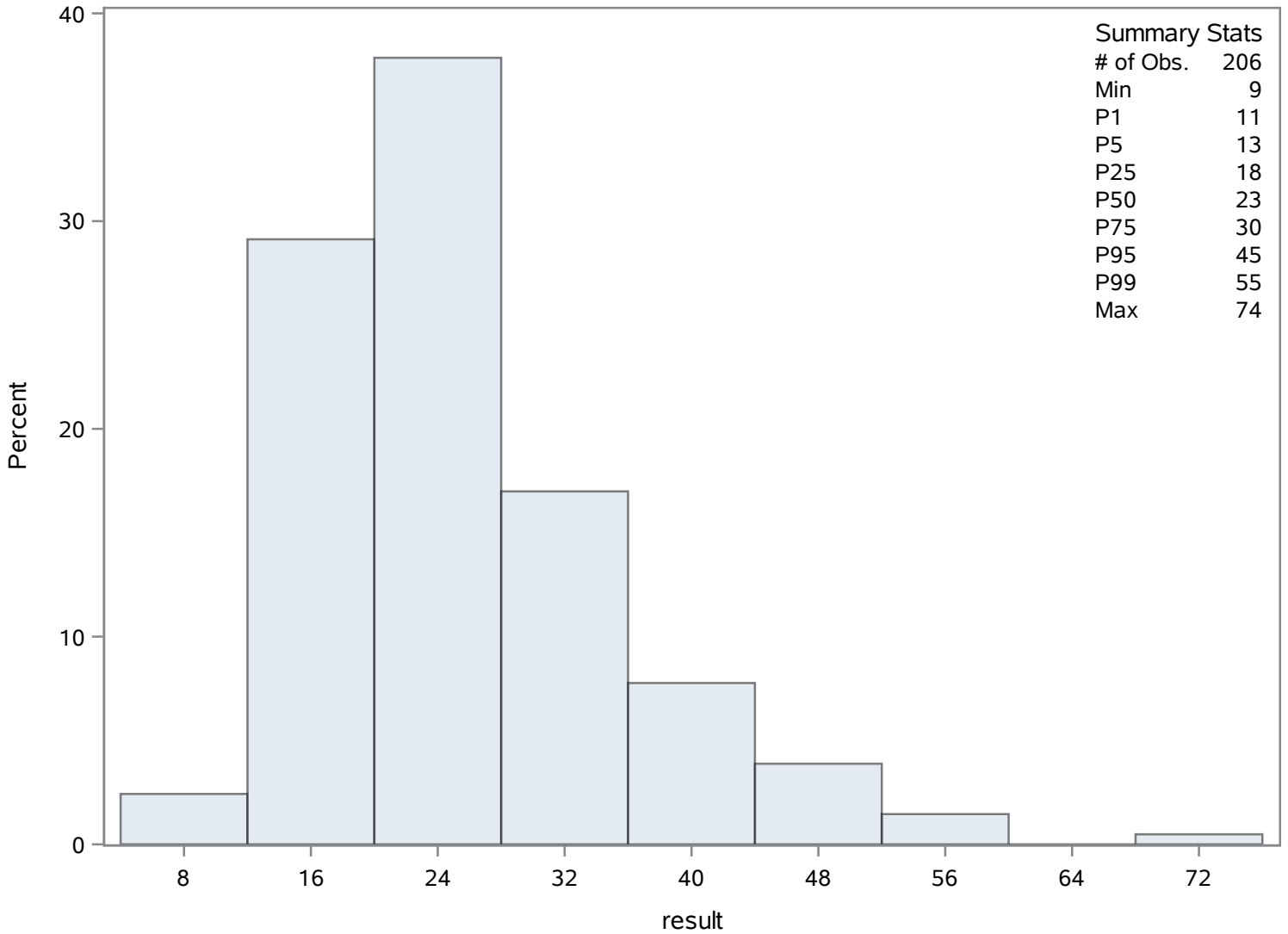
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 2 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	4.03555556	Sum Observations	835.36
Std Deviation	2.32004824	Variance	5.38262384
Skewness	2.11712727	Kurtosis	5.6097842
Uncorrected SS	4479.9622	Corrected SS	1108.82051
Coeff Variation	57.4901822	Std Error Mean	0.1612545

Basic Statistical Measures			
Location		Variability	
Mean	4.035556	Std Deviation	2.32005
Median	3.340000	Variance	5.38262
Mode	3.000000	Range	13.97000
		Interquartile Range	1.92000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.026	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.50
99%	11.31
95%	9.26
90%	6.87
75% Q3	4.56
50% Median	3.34
25% Q1	2.64
10%	2.01
5%	1.85
1%	1.70
0% Min	1.53

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.53	1505	10.20	1518
1.64	1576	10.98	1659
1.70	1569	11.31	1604
1.72	1561	15.20	1540
1.72	1558	15.50	1504

Chassahowitzka River - Fixed Station

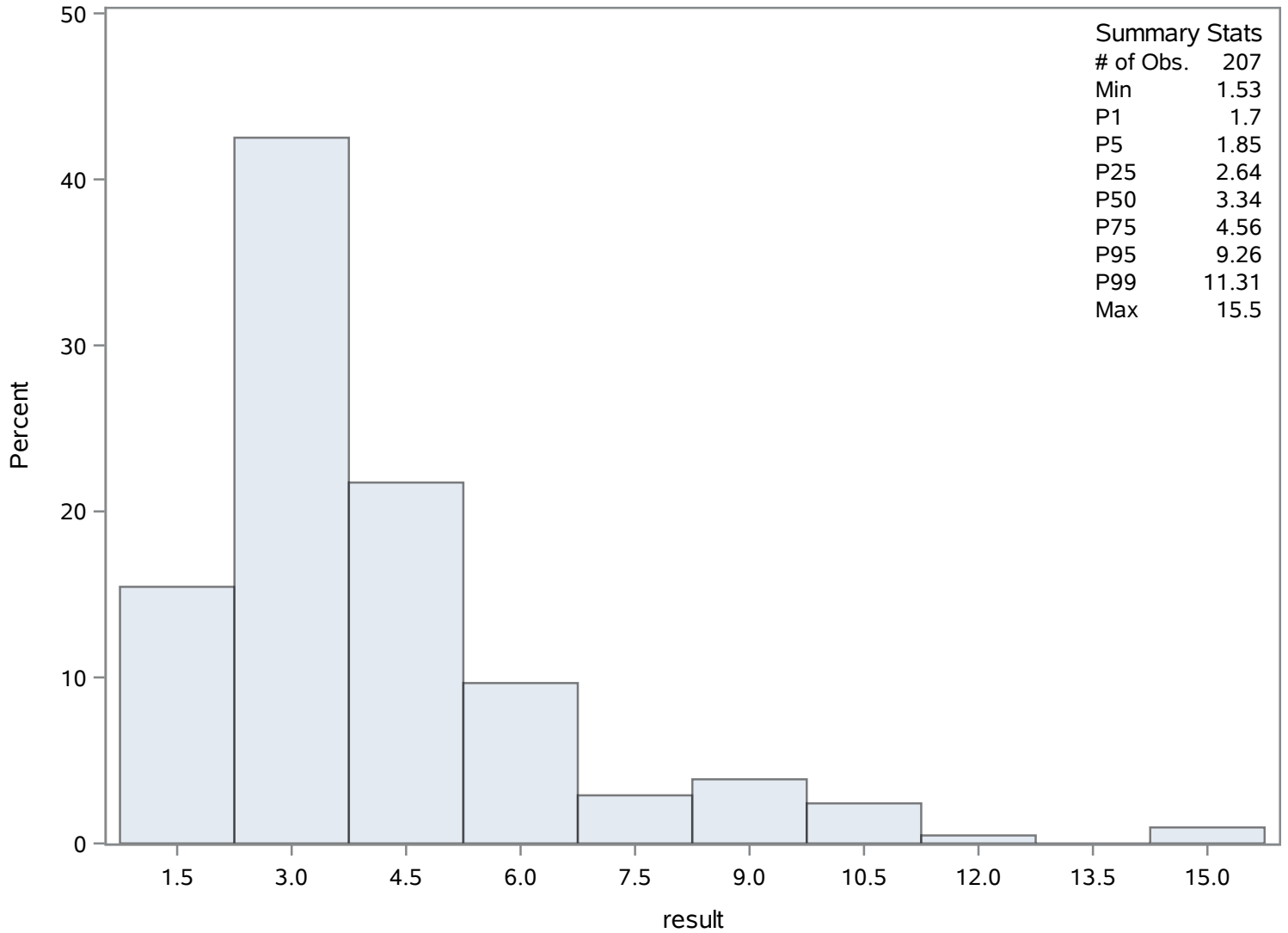
Source: COAST

Chassahowitzka Citrus 2

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	123	Sum Weights	123
Mean	1.16626016	Sum Observations	143.45
Std Deviation	0.25739043	Variance	0.06624983
Skewness	0.41824726	Kurtosis	0.19956394
Uncorrected SS	175.3825	Corrected SS	8.08247967
Coeff Variation	22.0697266	Std Error Mean	0.02320811

Basic Statistical Measures			
Location		Variability	
Mean	1.166260	Std Deviation	0.25739
Median	1.200000	Variance	0.06625
Mode	1.000000	Range	1.40000
		Interquartile Range	0.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	50.25226	Pr > t 	<.0001
Sign	M	61.5	Pr >= M 	<.0001
Signed Rank	S	3813	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.9
99%	1.8
95%	1.6
90%	1.5
75% Q3	1.3
50% Median	1.2
25% Q1	1.0
10%	0.9
5%	0.8
1%	0.7
0% Min	0.5

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	1704	1.7	1690
0.7	1779	1.8	1721
0.7	1773	1.8	1725
0.8	1803	1.8	1749
0.8	1801	1.9	1805

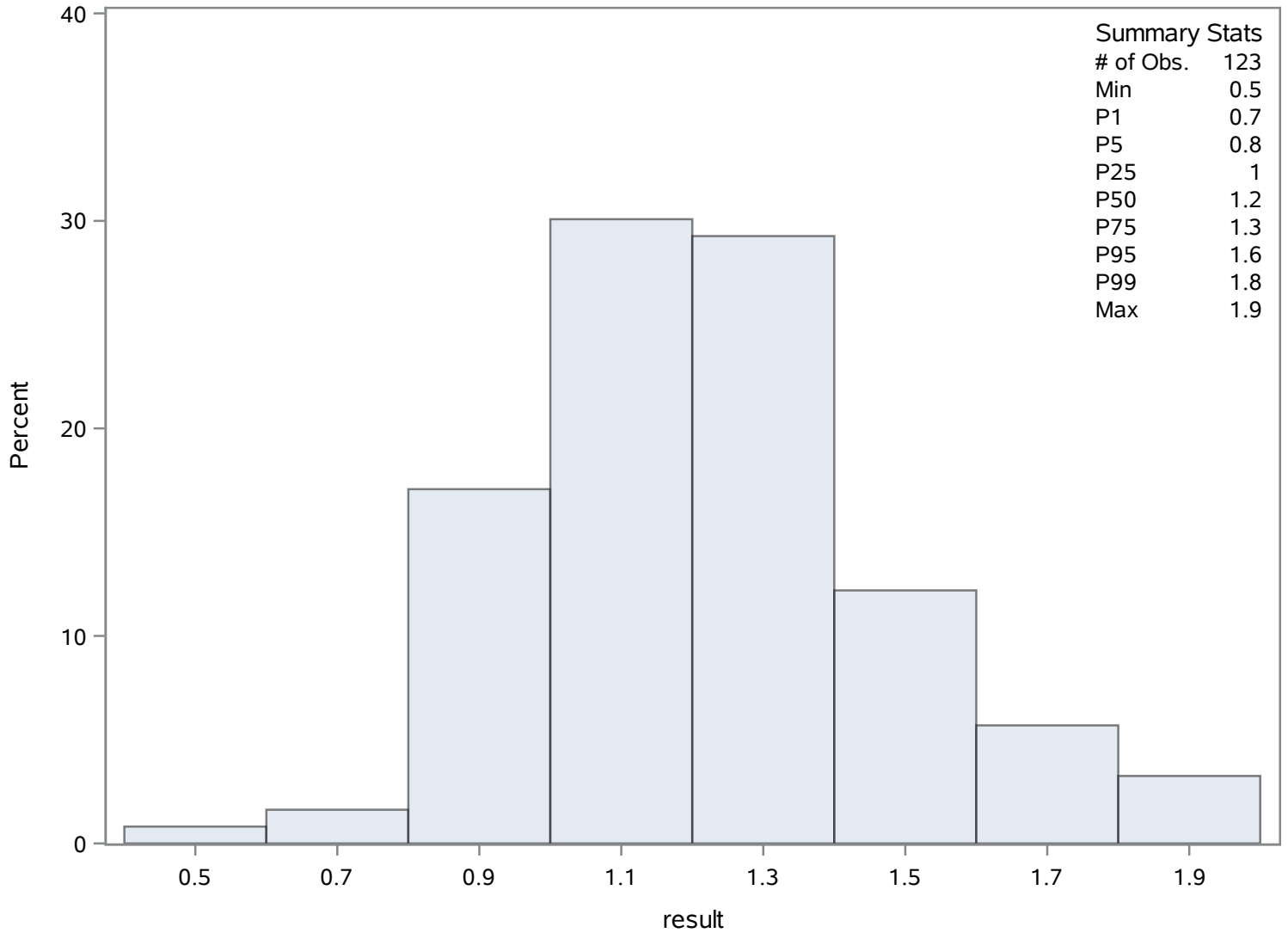
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 2 Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	23.9953883	Sum Observations	4943.05
Std Deviation	3.61997246	Variance	13.1042006
Skewness	-0.0937295	Kurtosis	-0.8676897
Uncorrected SS	121296.766	Corrected SS	2686.36112
Coeff Variation	15.0861174	Std Error Mean	0.25221543

Basic Statistical Measures			
Location		Variability	
Mean	23.99539	Std Deviation	3.61997
Median	24.01000	Variance	13.10420
Mode	18.52000	Range	16.00000
		Interquartile Range	5.49000

Note: The mode displayed is the smallest of 16 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	95.13846	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.00
99%	30.29
95%	29.70
90%	28.98
75% Q3	26.89
50% Median	24.01
25% Q1	21.40
10%	19.00
5%	18.16

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	16.64
0% Min	15.00

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
15.00	1854	30.08	1933
16.04	1973	30.25	2017
16.64	1855	30.29	1967
17.02	1950	30.70	1850
17.33	1974	31.00	1851

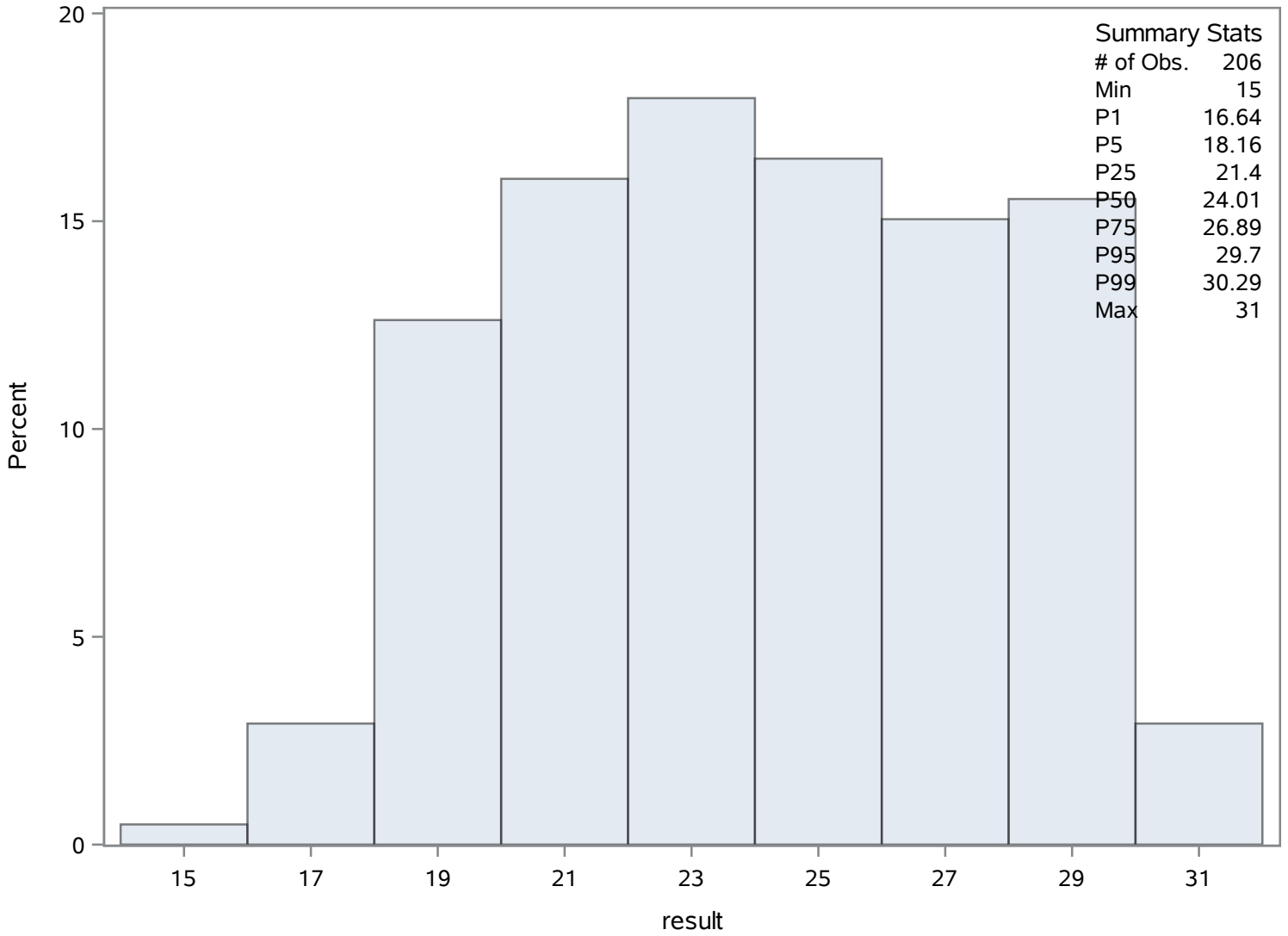
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 2 Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	142	Sum Weights	142
Mean	7.64070423	Sum Observations	1084.98
Std Deviation	0.31890693	Variance	0.10170163
Skewness	-0.310155	Kurtosis	0.9520292
Uncorrected SS	8304.3512	Corrected SS	14.3399296
Coeff Variation	4.17378972	Std Error Mean	0.02676207

Basic Statistical Measures			
Location		Variability	
Mean	7.640704	Std Deviation	0.31891
Median	7.655000	Variance	0.10170
Mode	7.610000	Range	2.03000
		Interquartile Range	0.39000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	285.5049	Pr > t 	<.0001
Sign	M	71	Pr >= M 	<.0001
Signed Rank	S	5076.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.510
99%	8.400
95%	8.120
90%	8.020
75% Q3	7.840
50% Median	7.655
25% Q1	7.450
10%	7.280
5%	7.110
1%	6.840
0% Min	6.480

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.48	2088	8.16	2094
6.84	2146	8.23	2024
6.86	2089	8.35	2070
6.95	2098	8.40	2095
7.02	2122	8.51	2019

Chassahowitzka River - Fixed Station

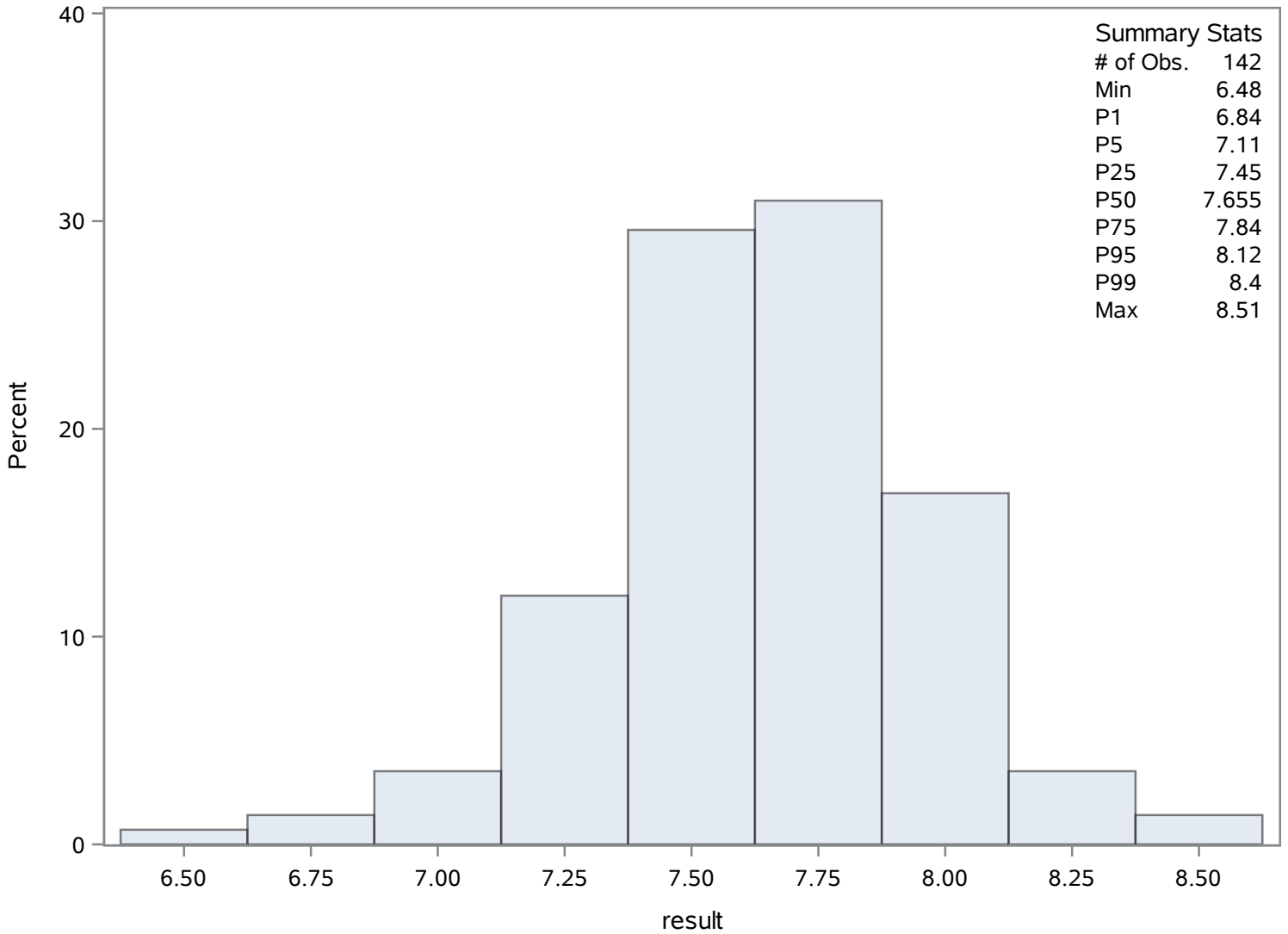
Source: COAST

Chassahowitzka Citrus 2

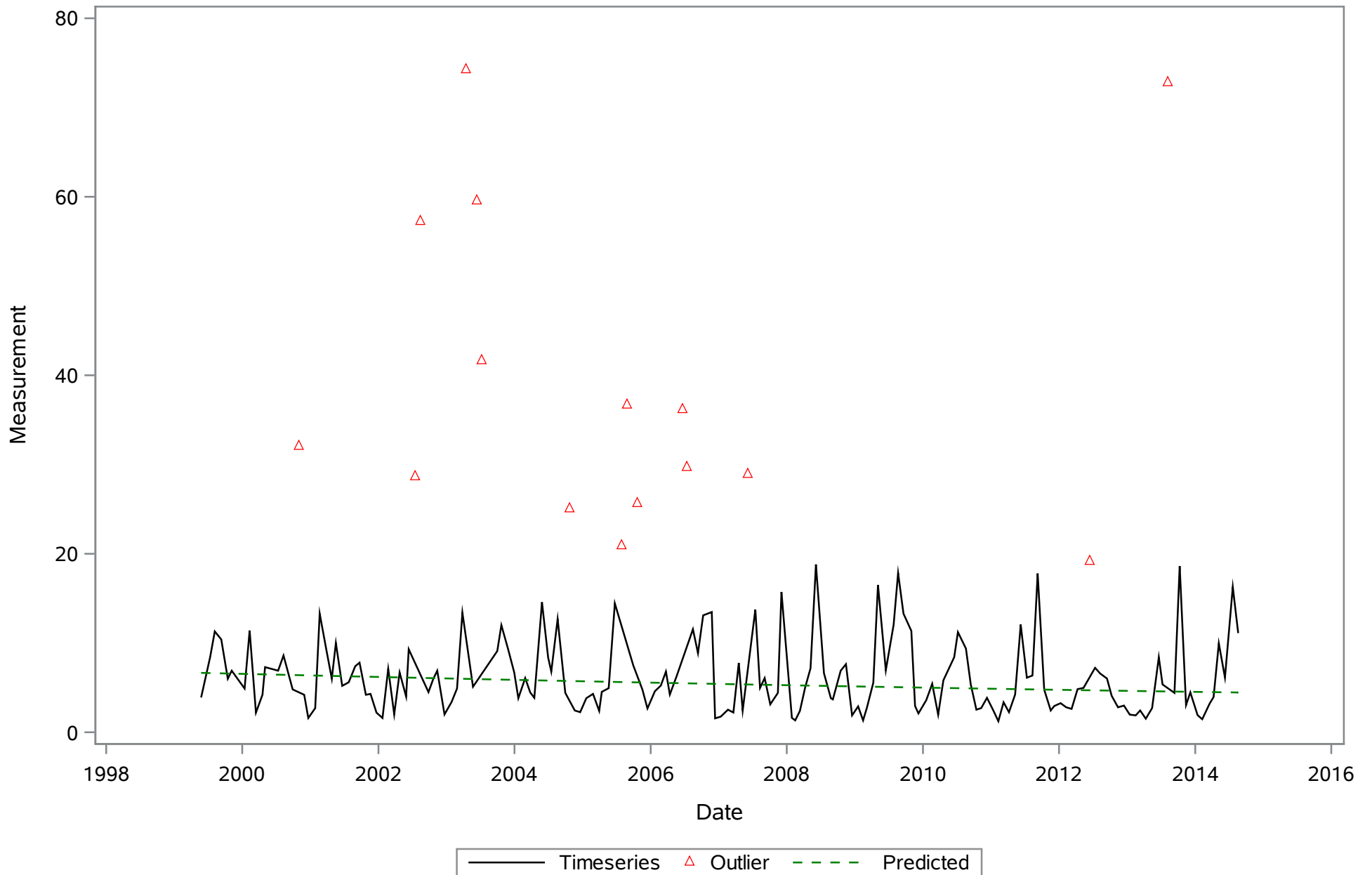
pH (Total) SU

The UNIVARIATE Procedure

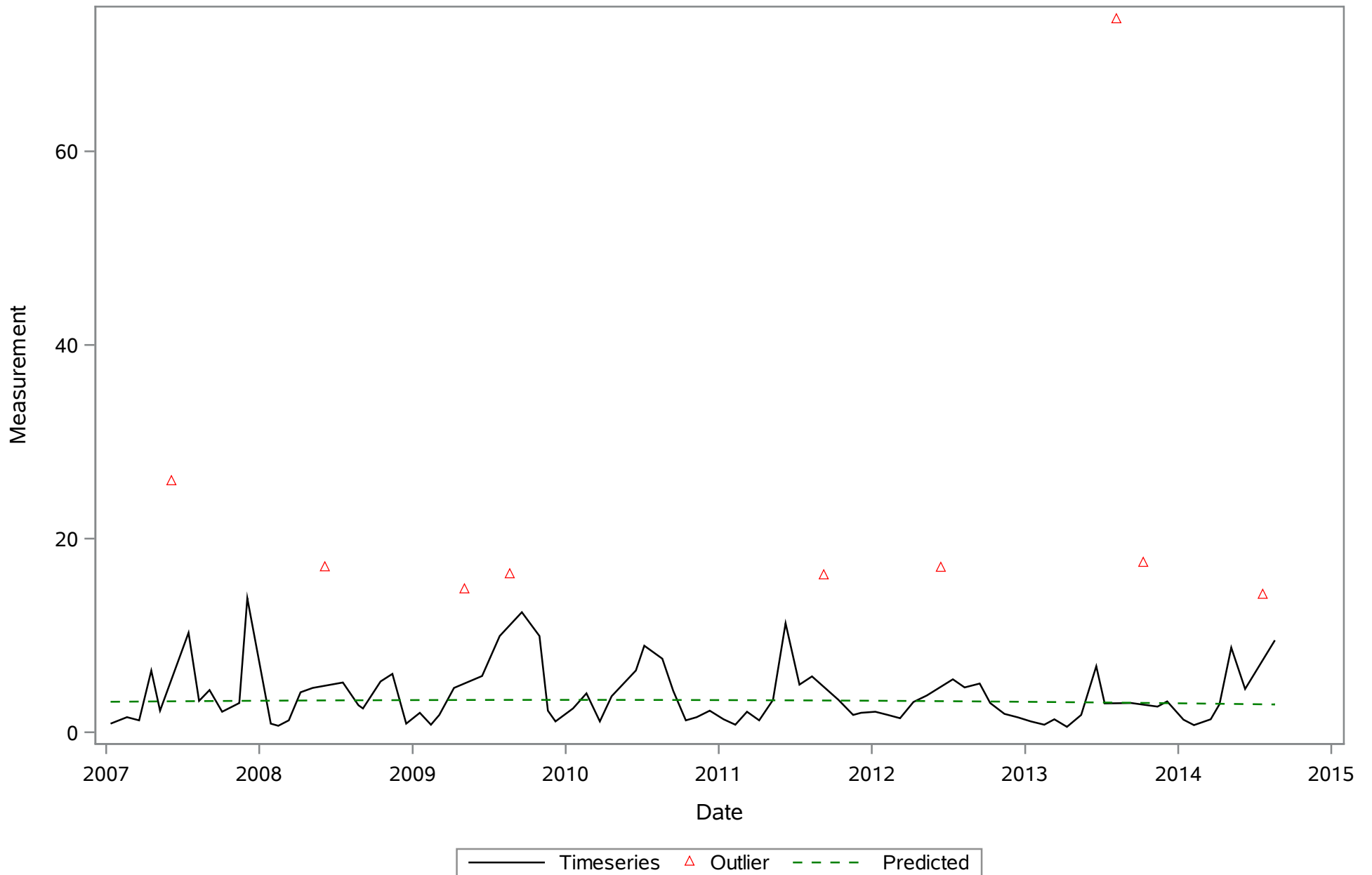
Distribution of result



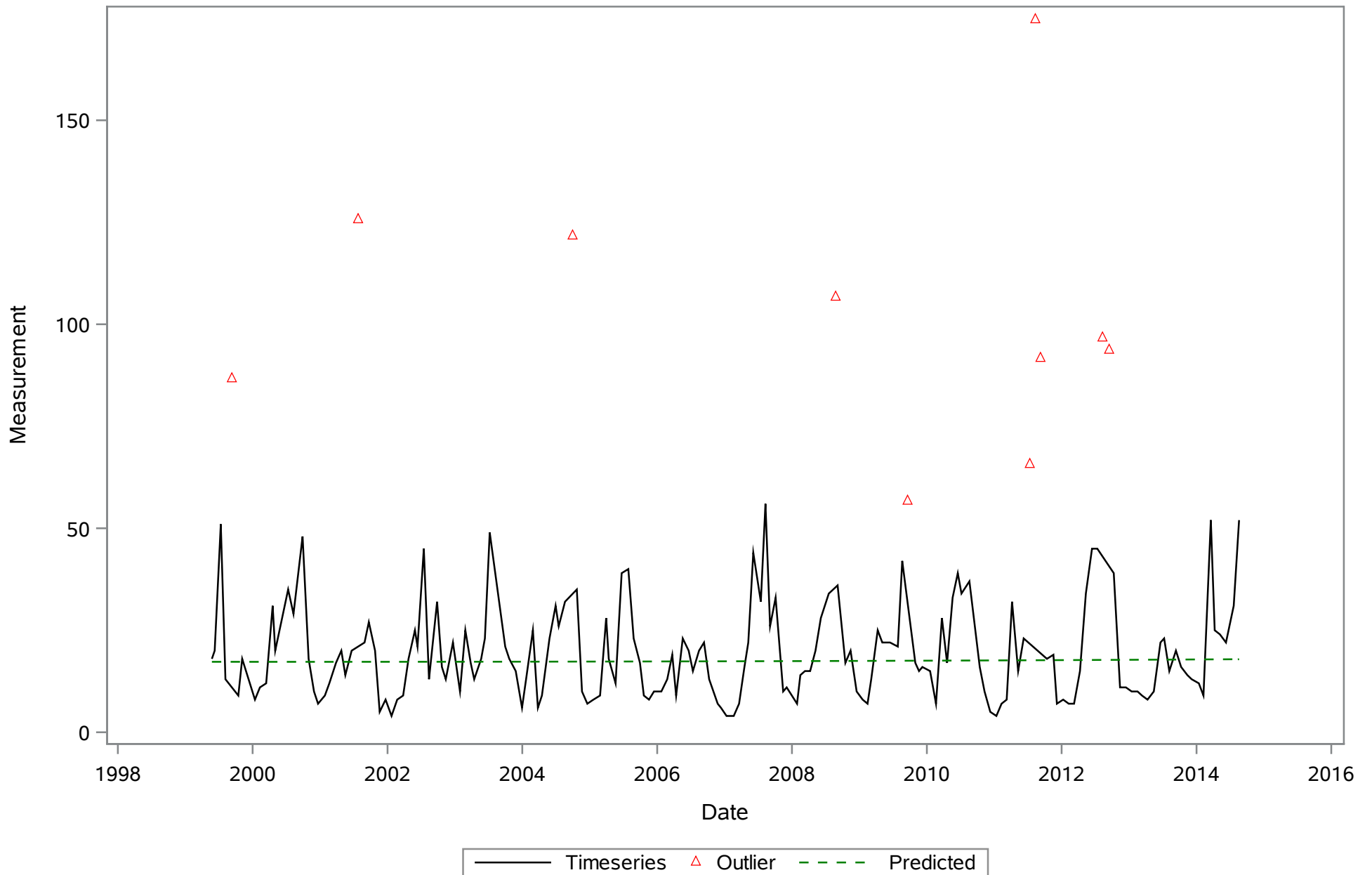
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Chlorophyll (Total) ug/L



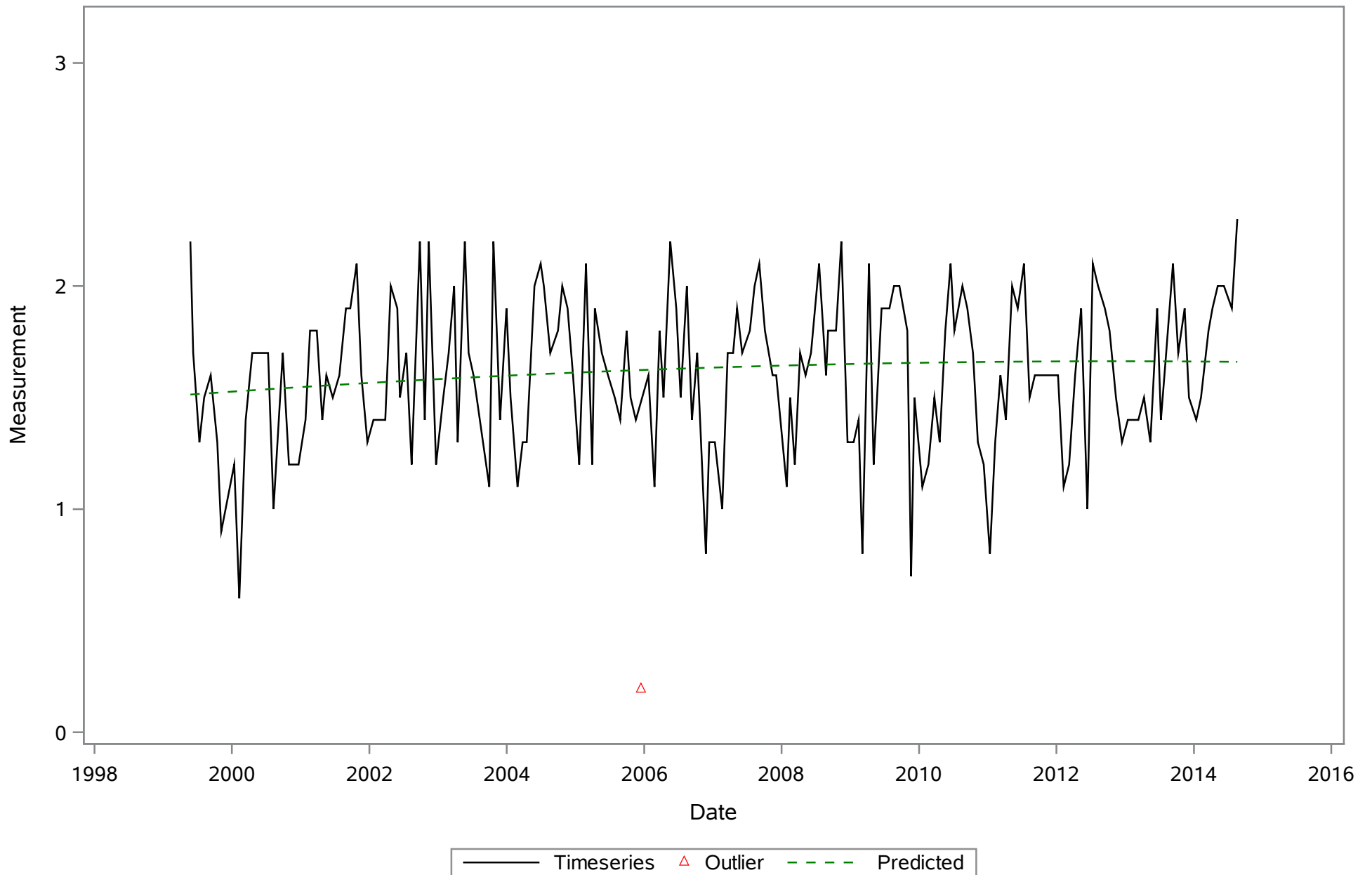
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Chlorophyll a (Total) ug/L



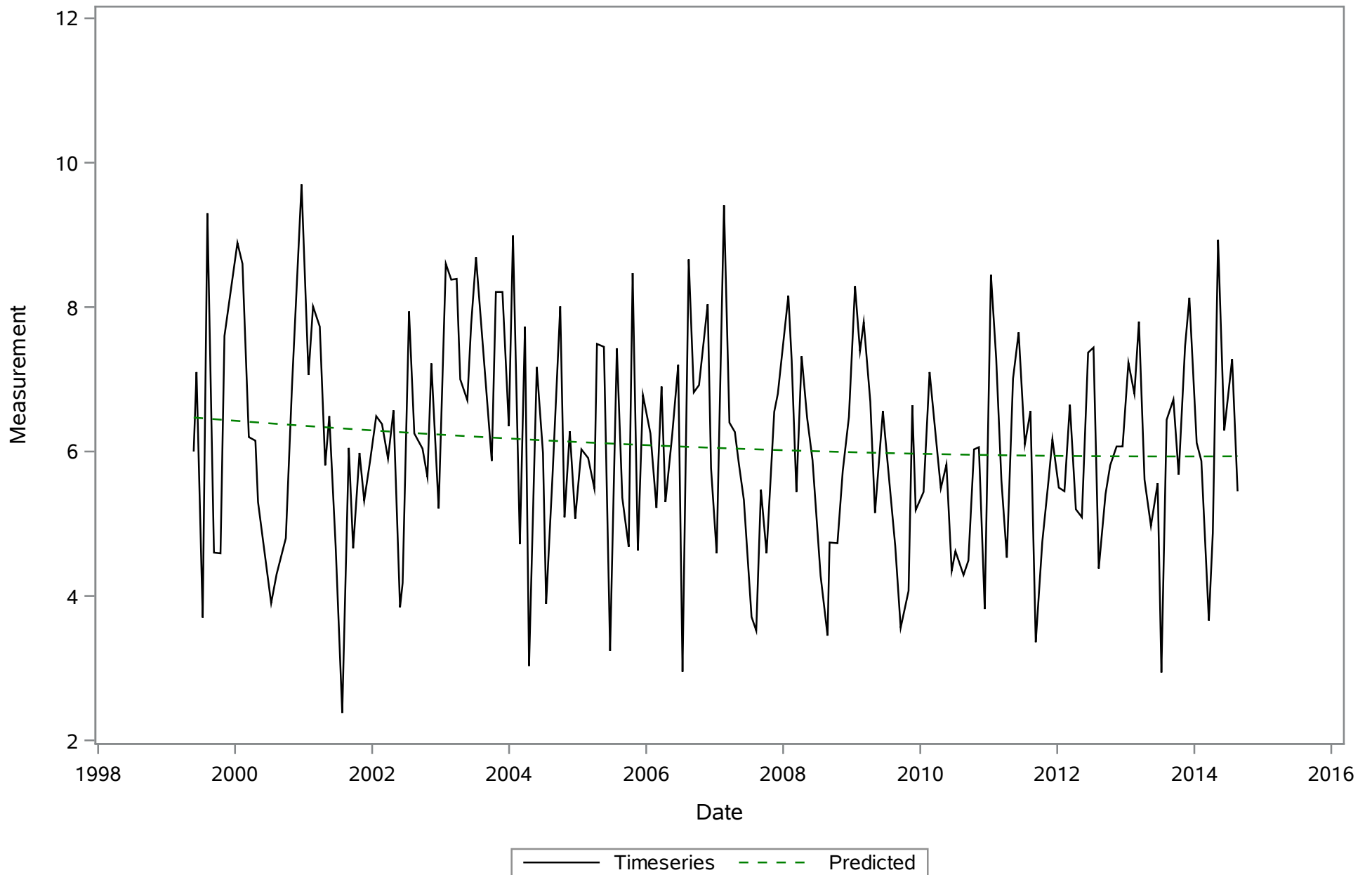
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Color (Total) PCU



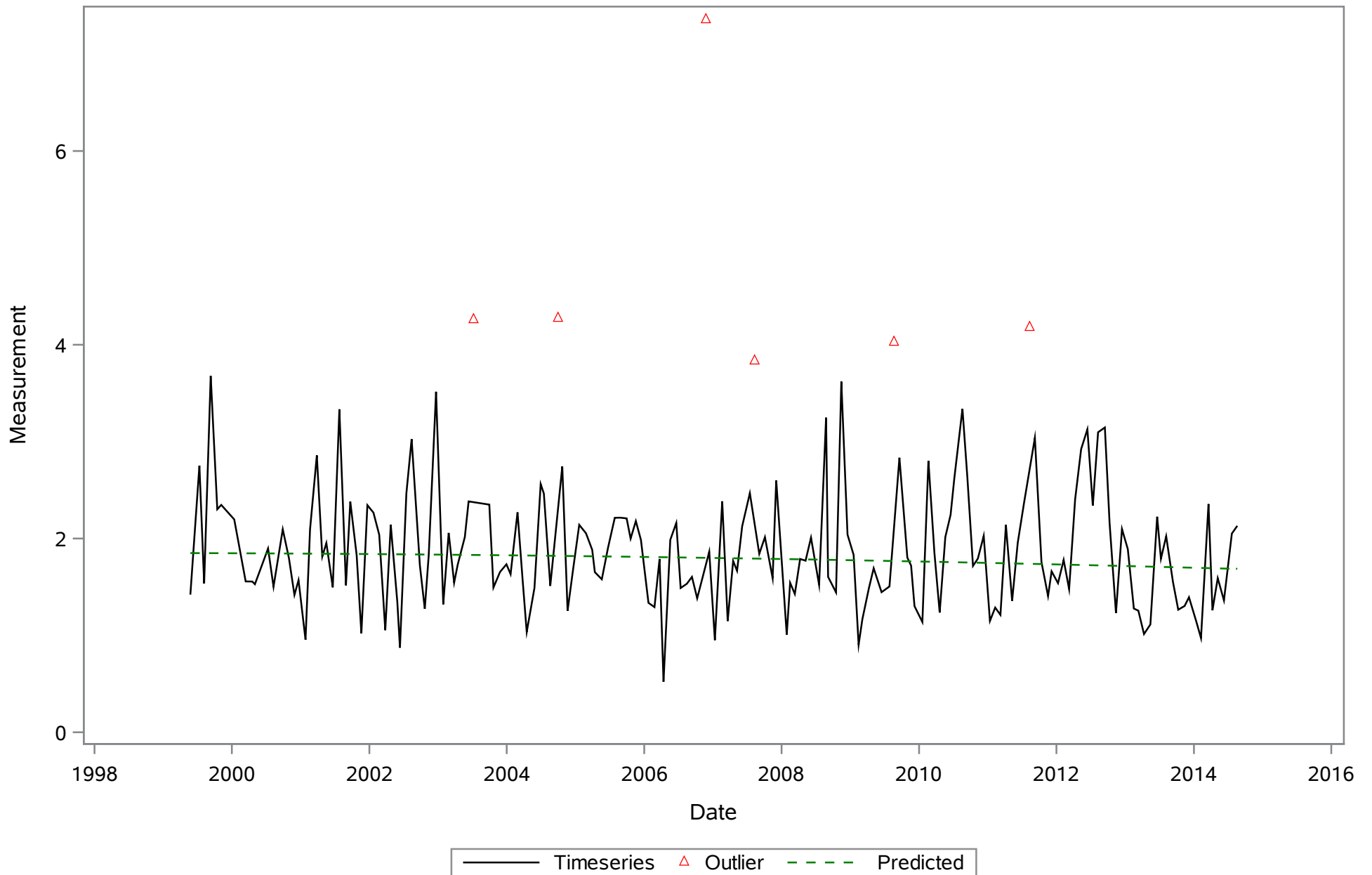
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Depth (Total) Meters



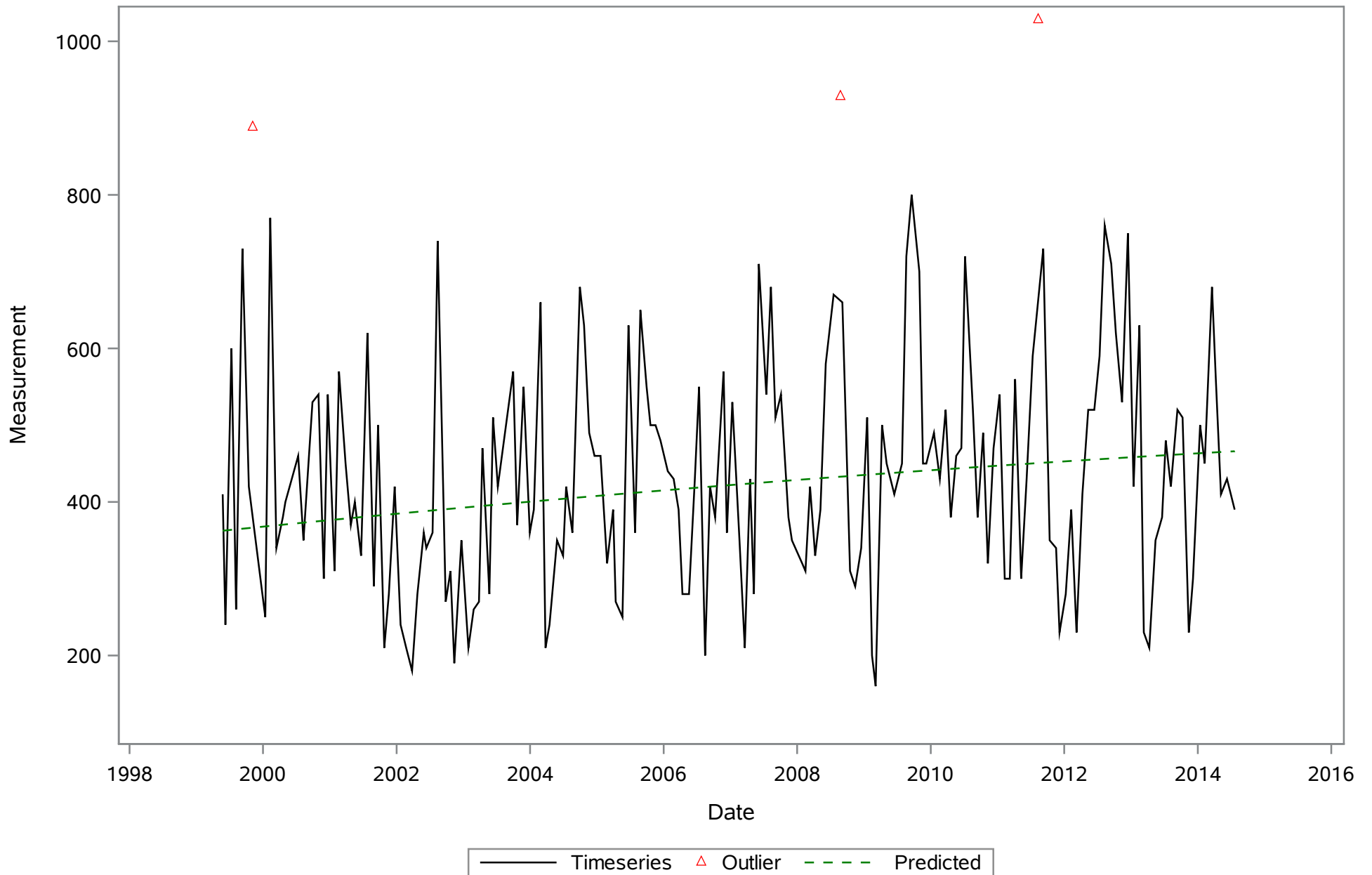
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L



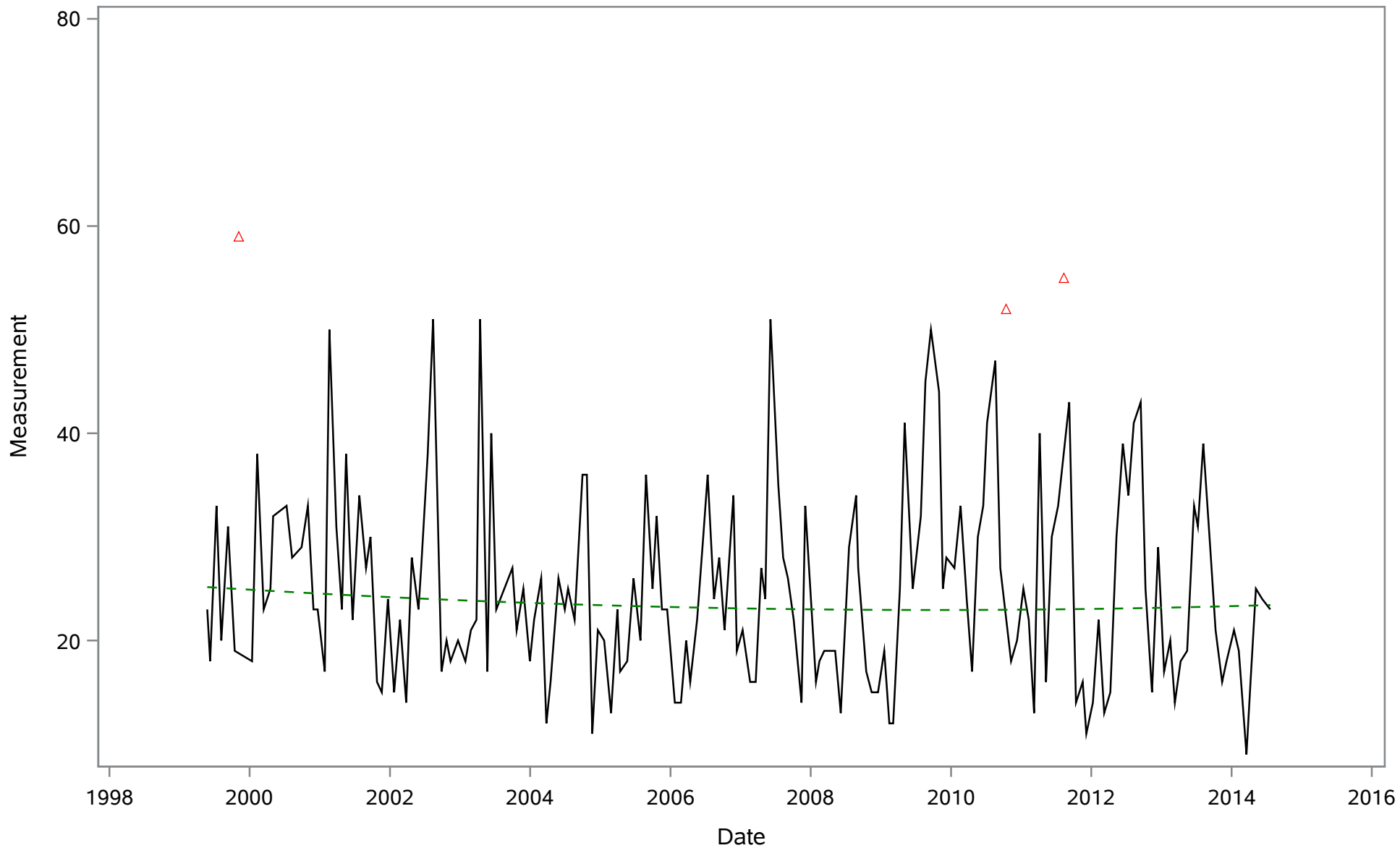
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L

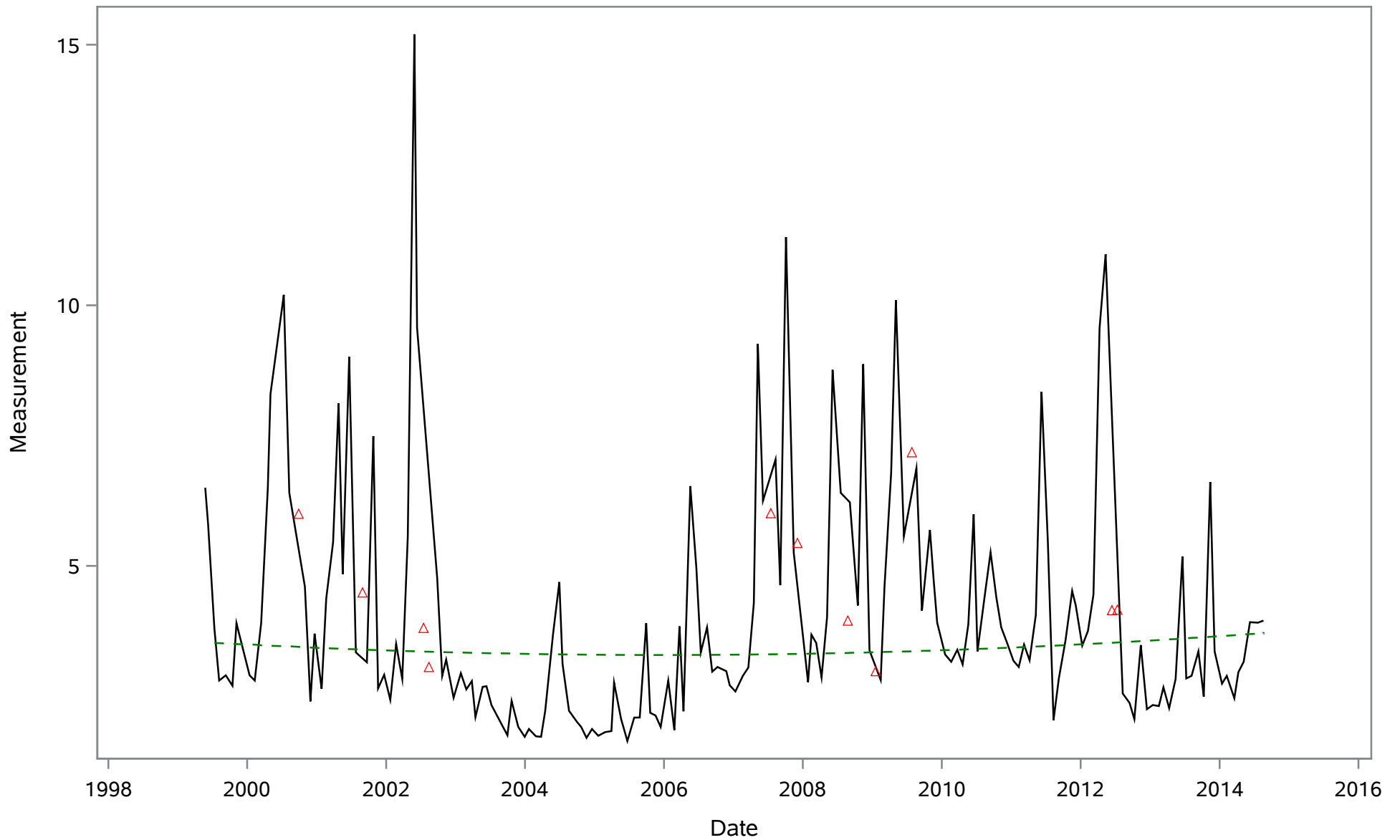


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L



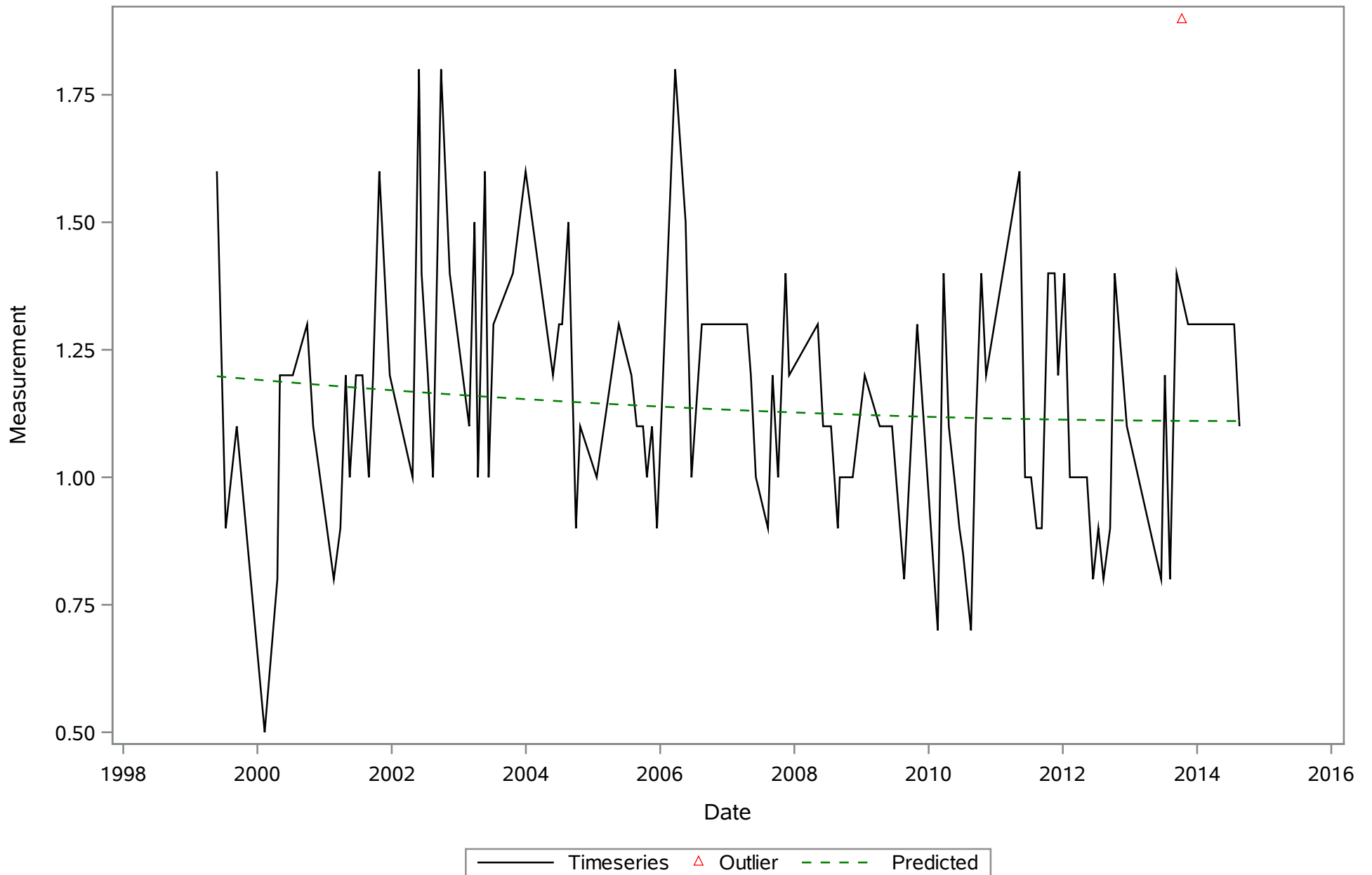
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Salinity (Total) ppt

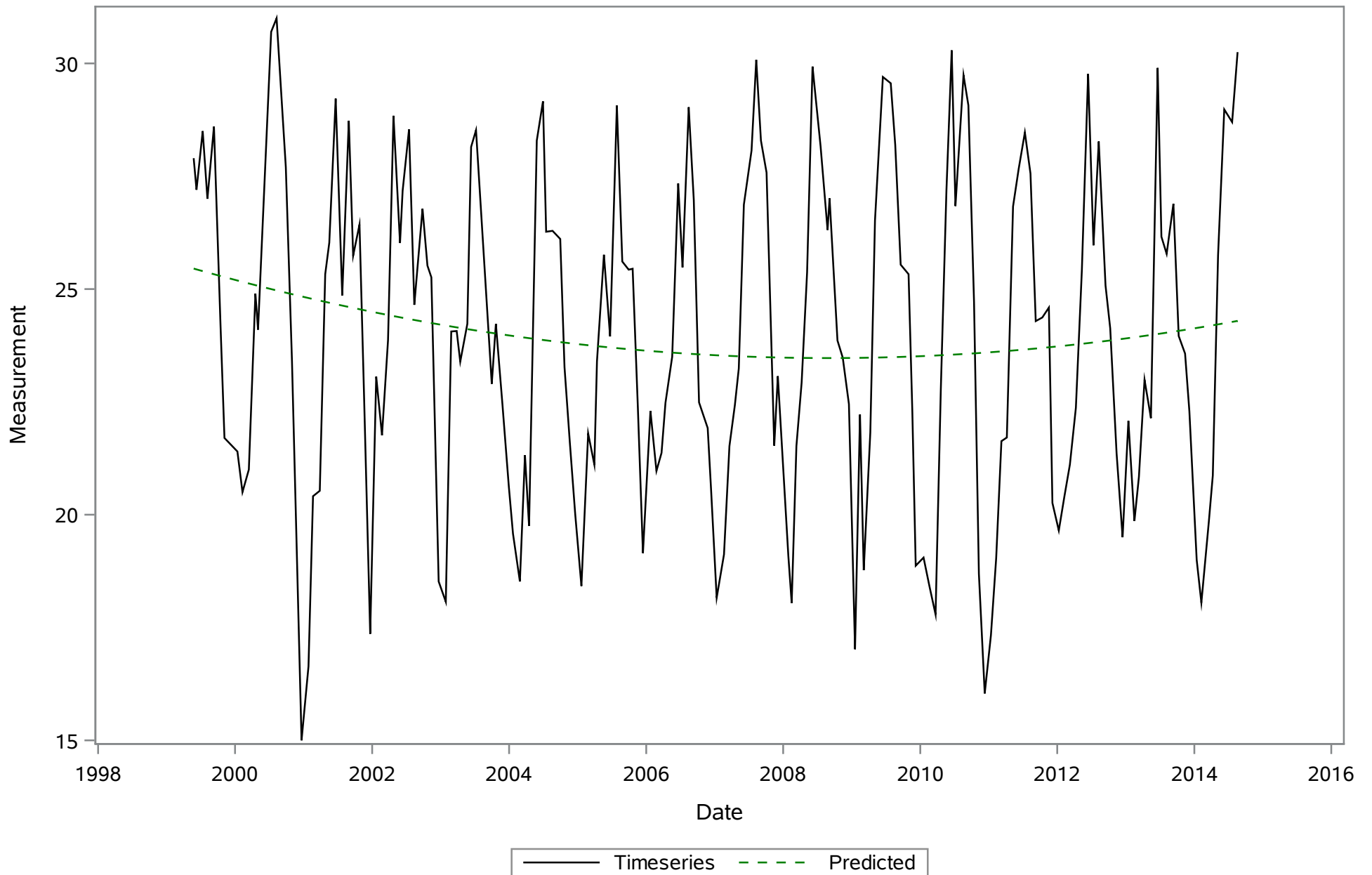


— Timeseries △ Outlier - - - Predicted

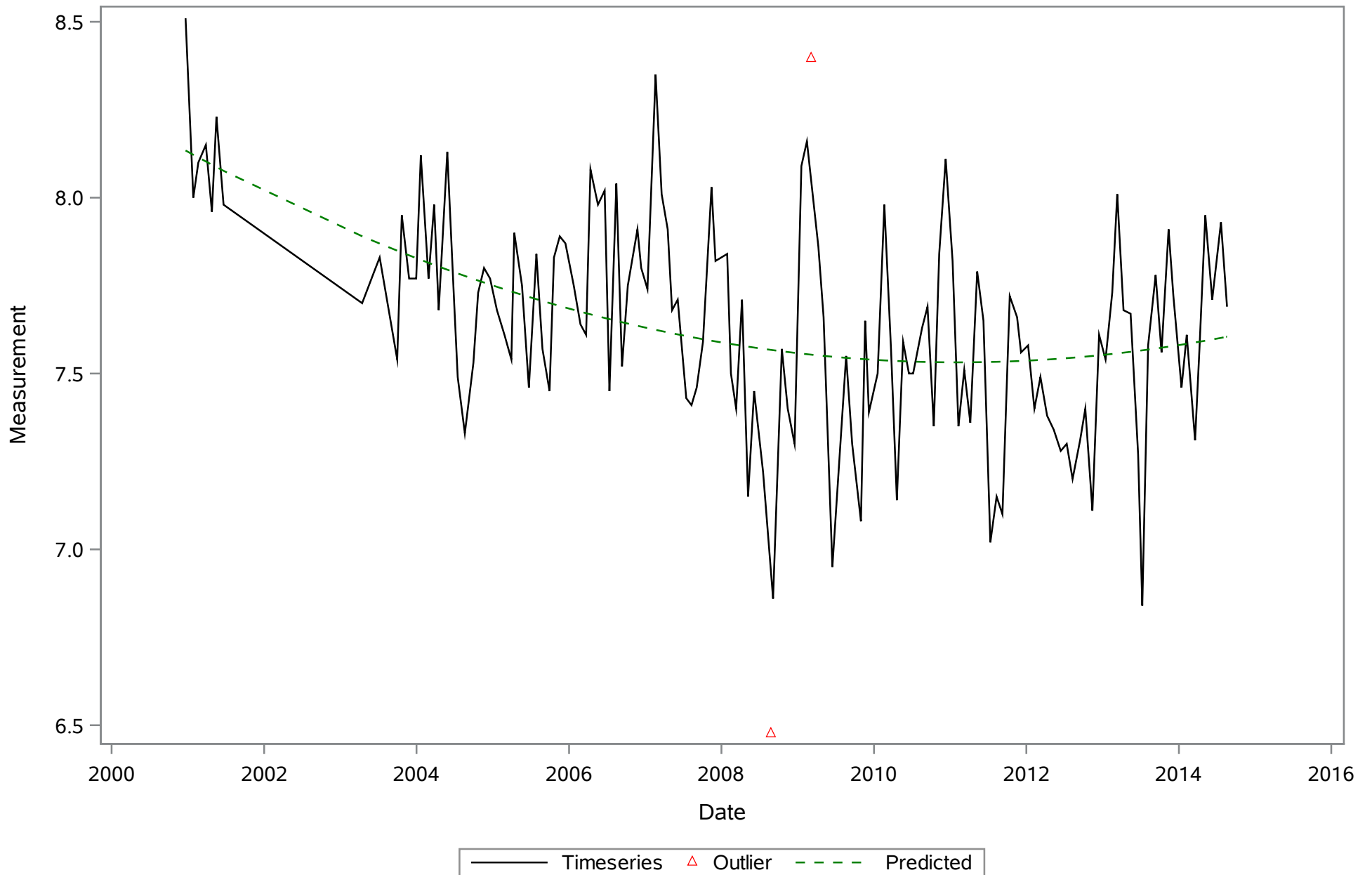
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters



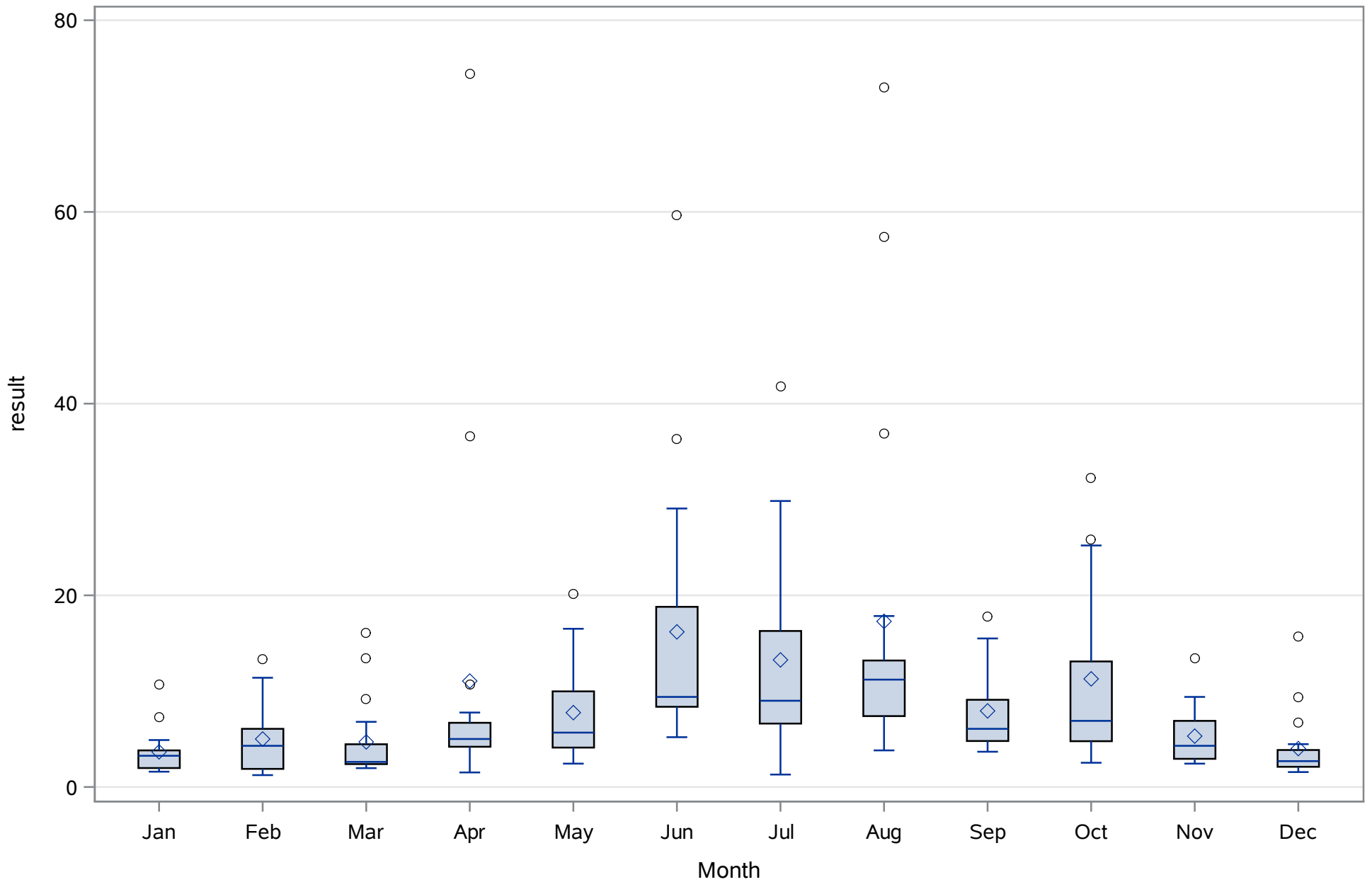
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Temperature (Total) Deg. C



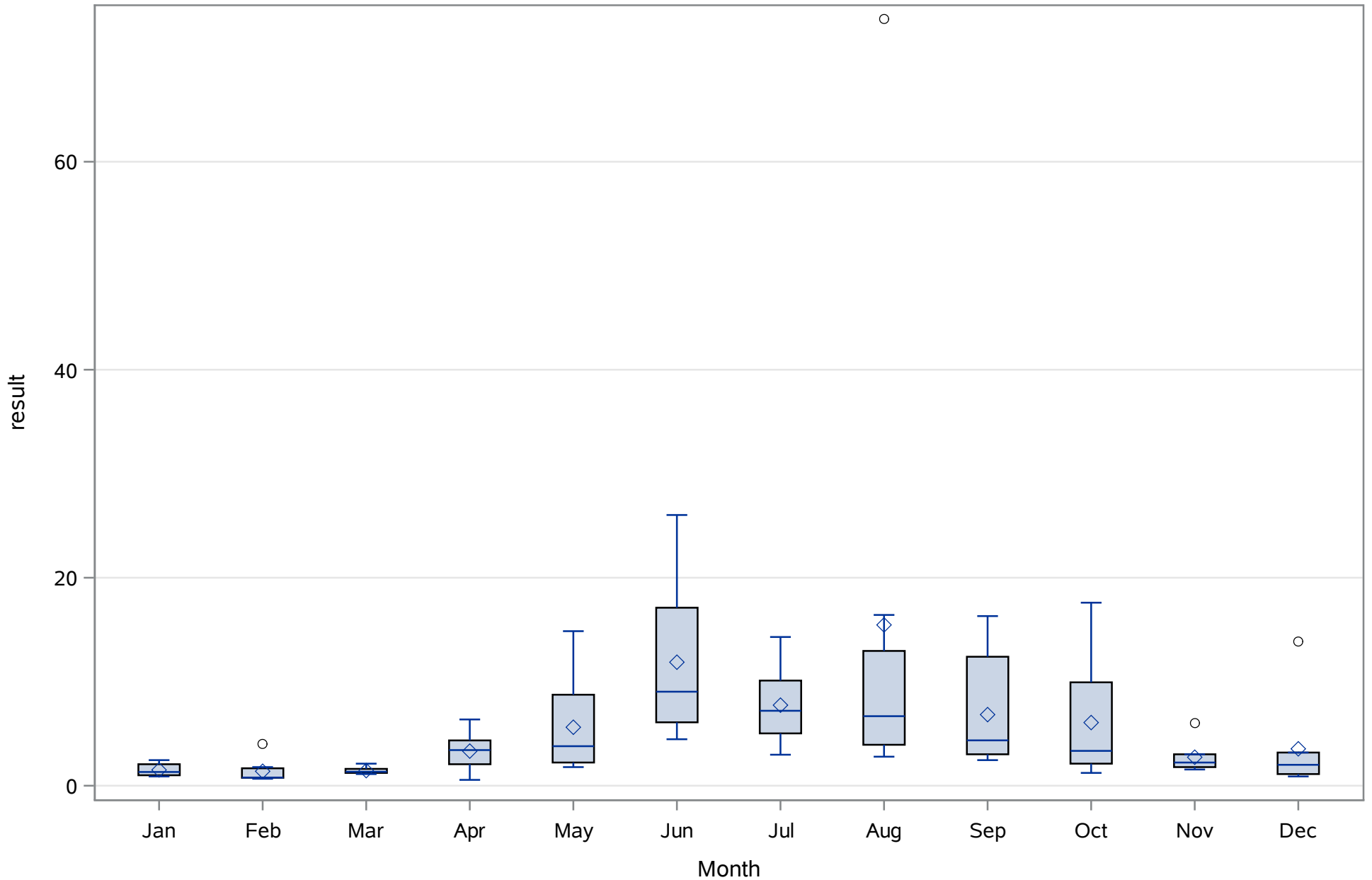
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
pH (Total) SU



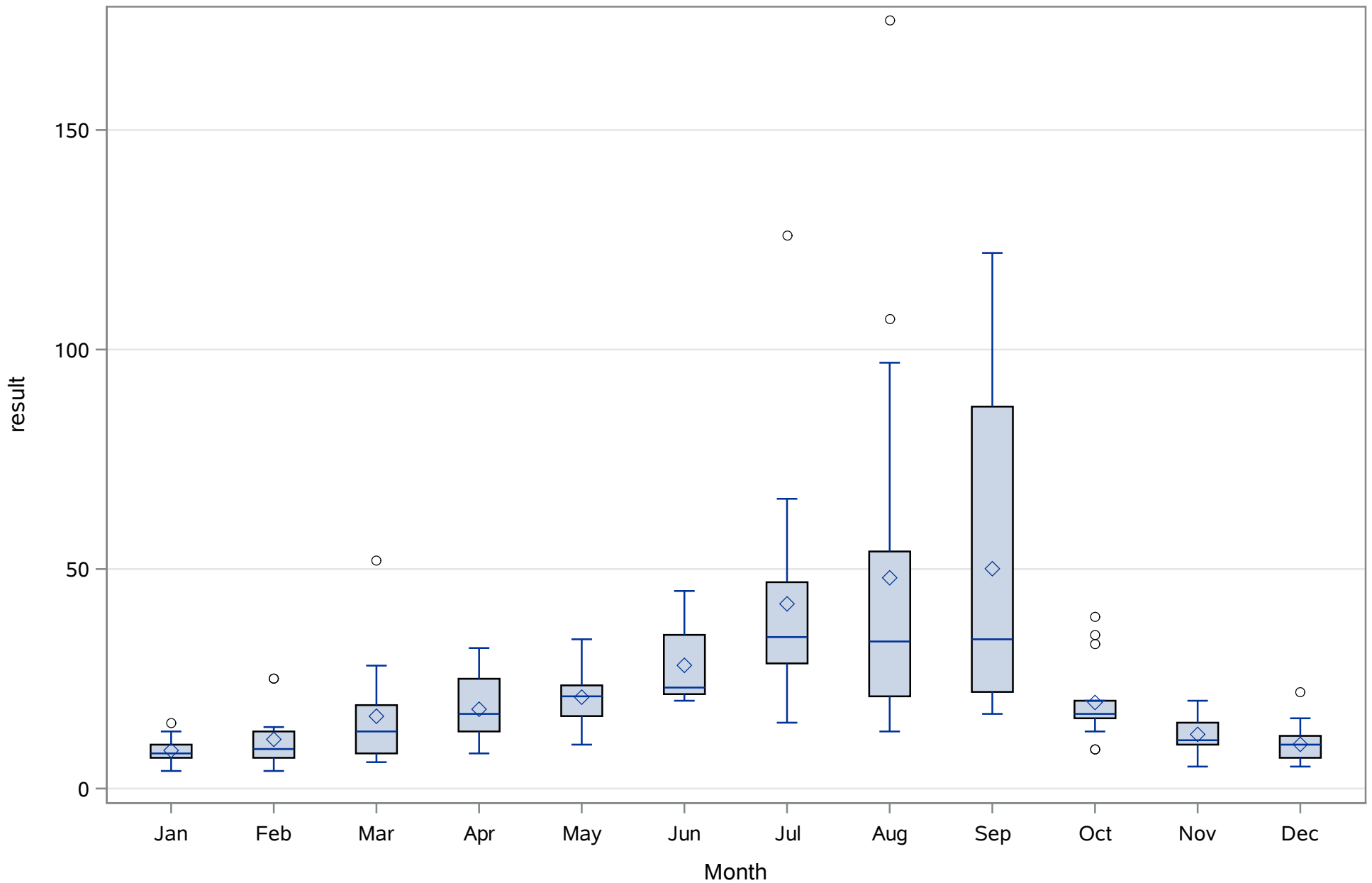
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Chlorophyll (Total) ug/L



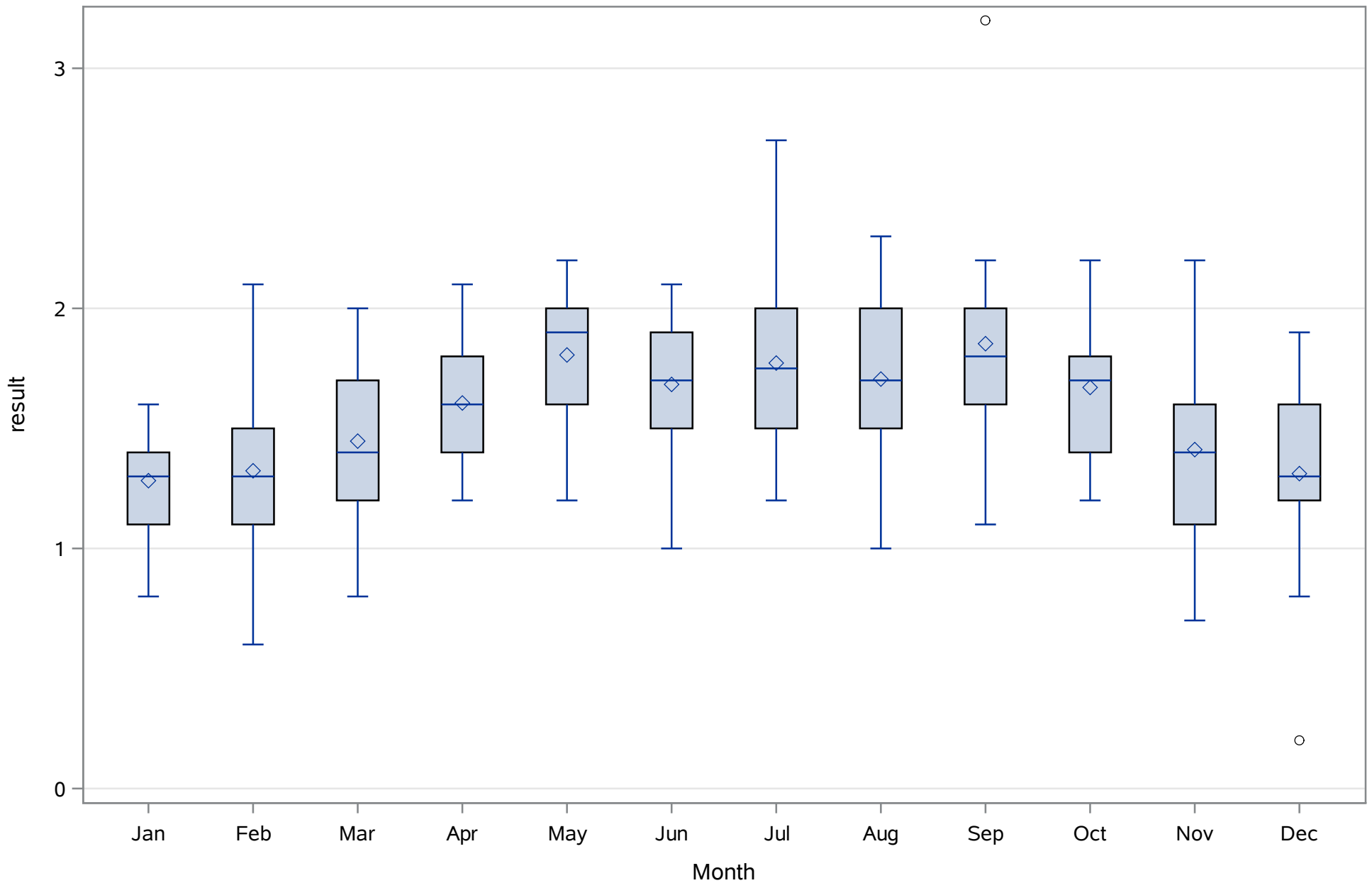
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Chlorophyll a (Total) ug/L



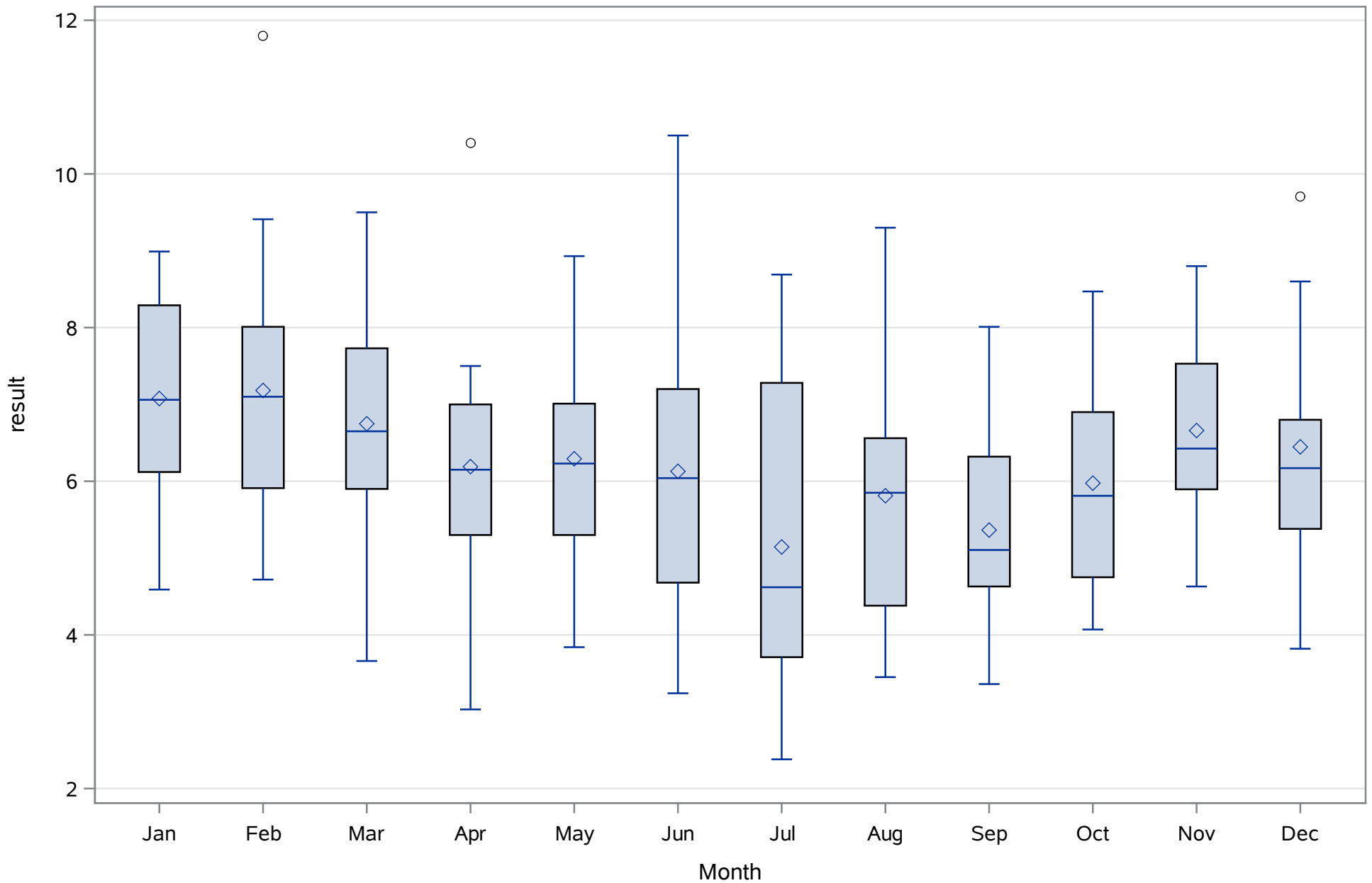
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Color (Total) PCU



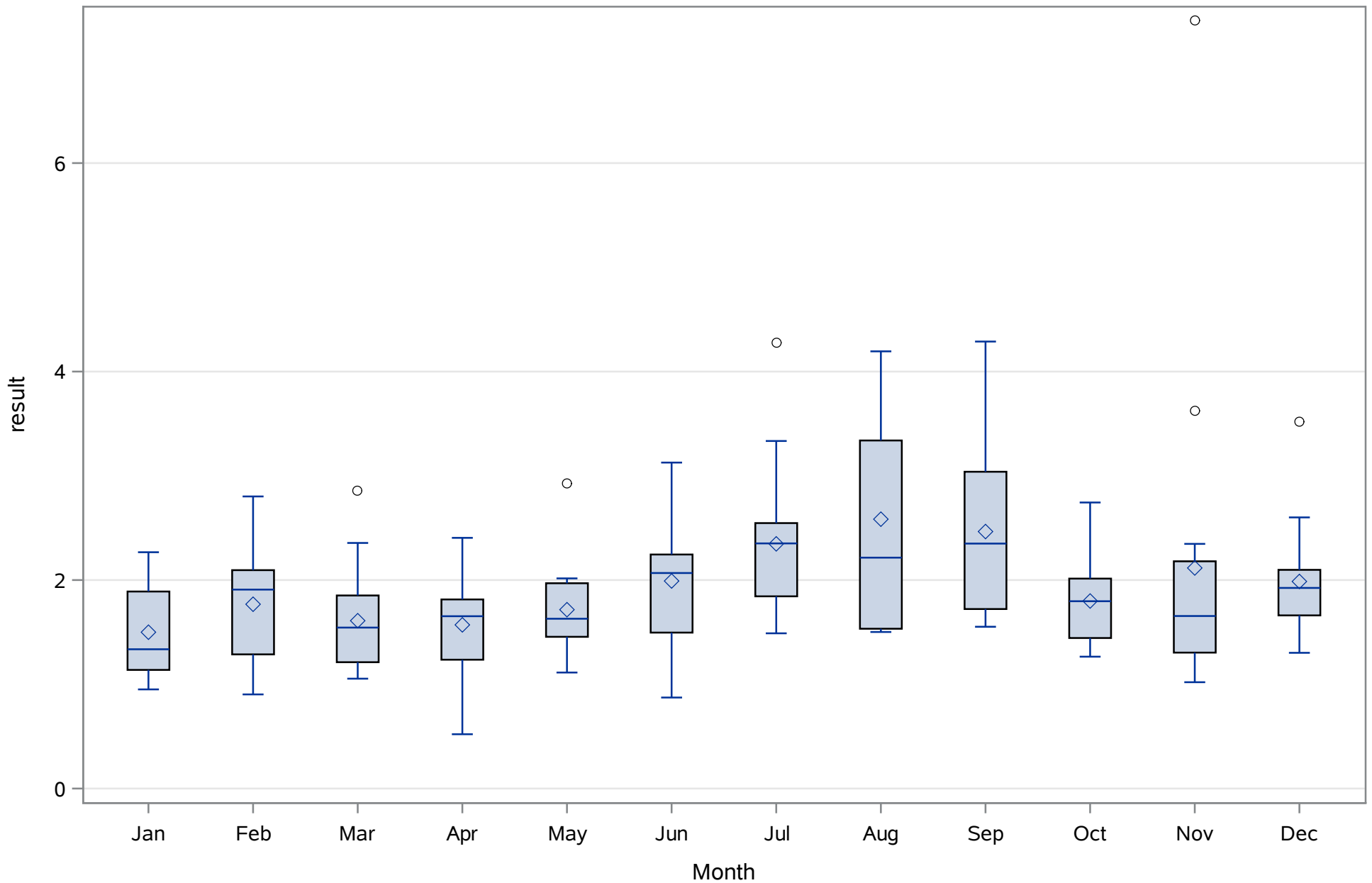
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Depth (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L



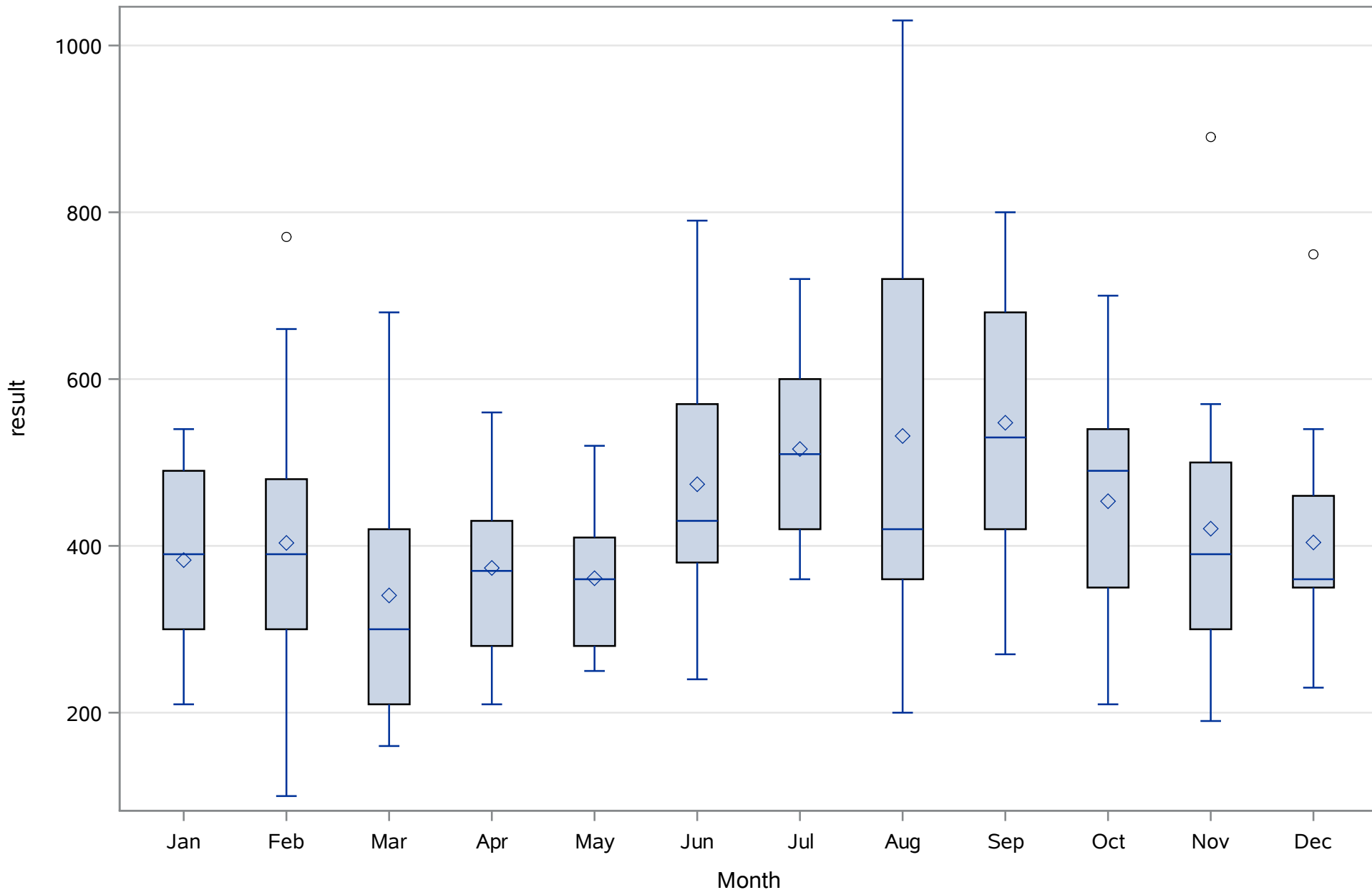
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m



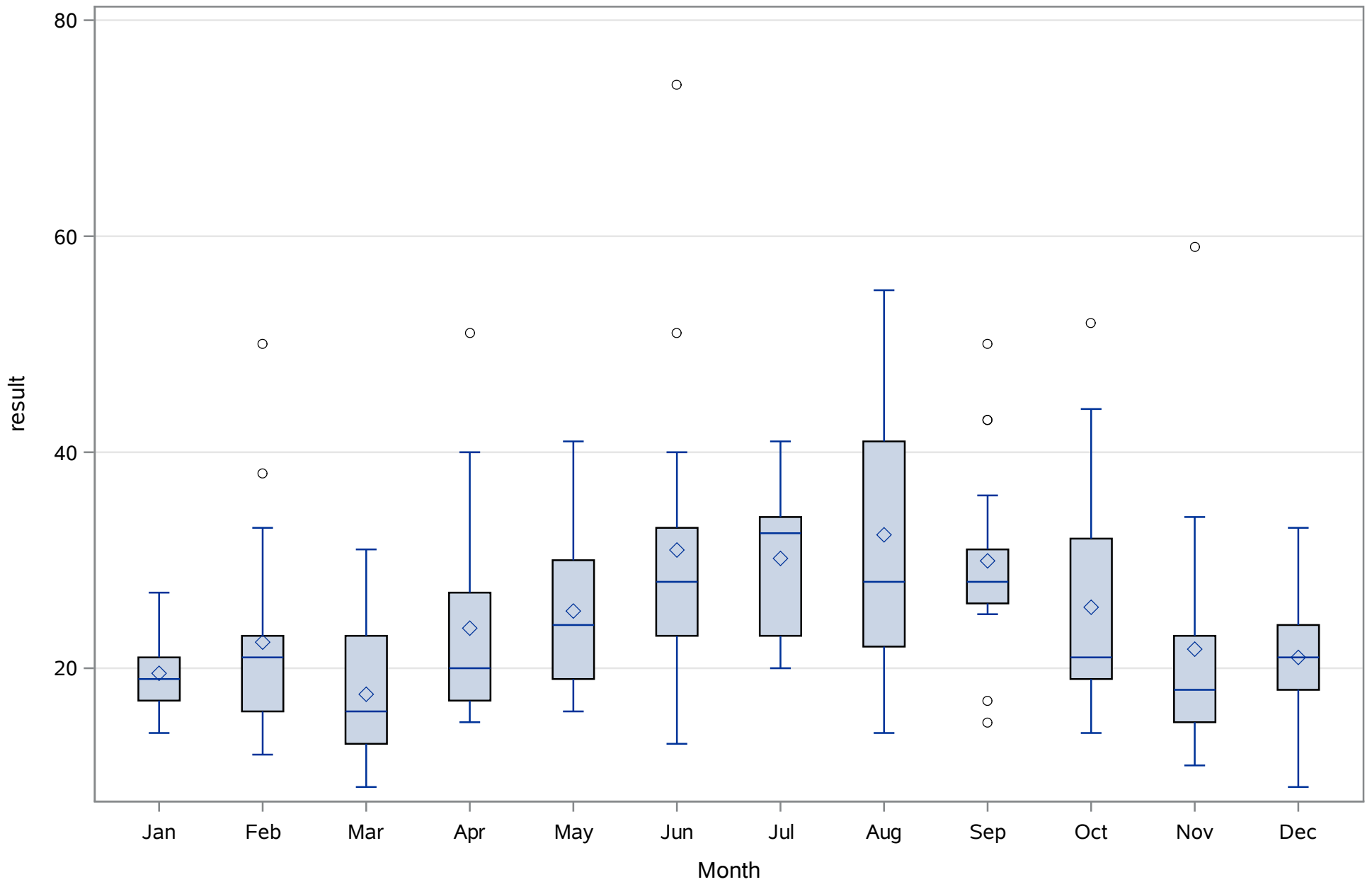
Chassahowitzka River - Fixed Station

Source: COAST

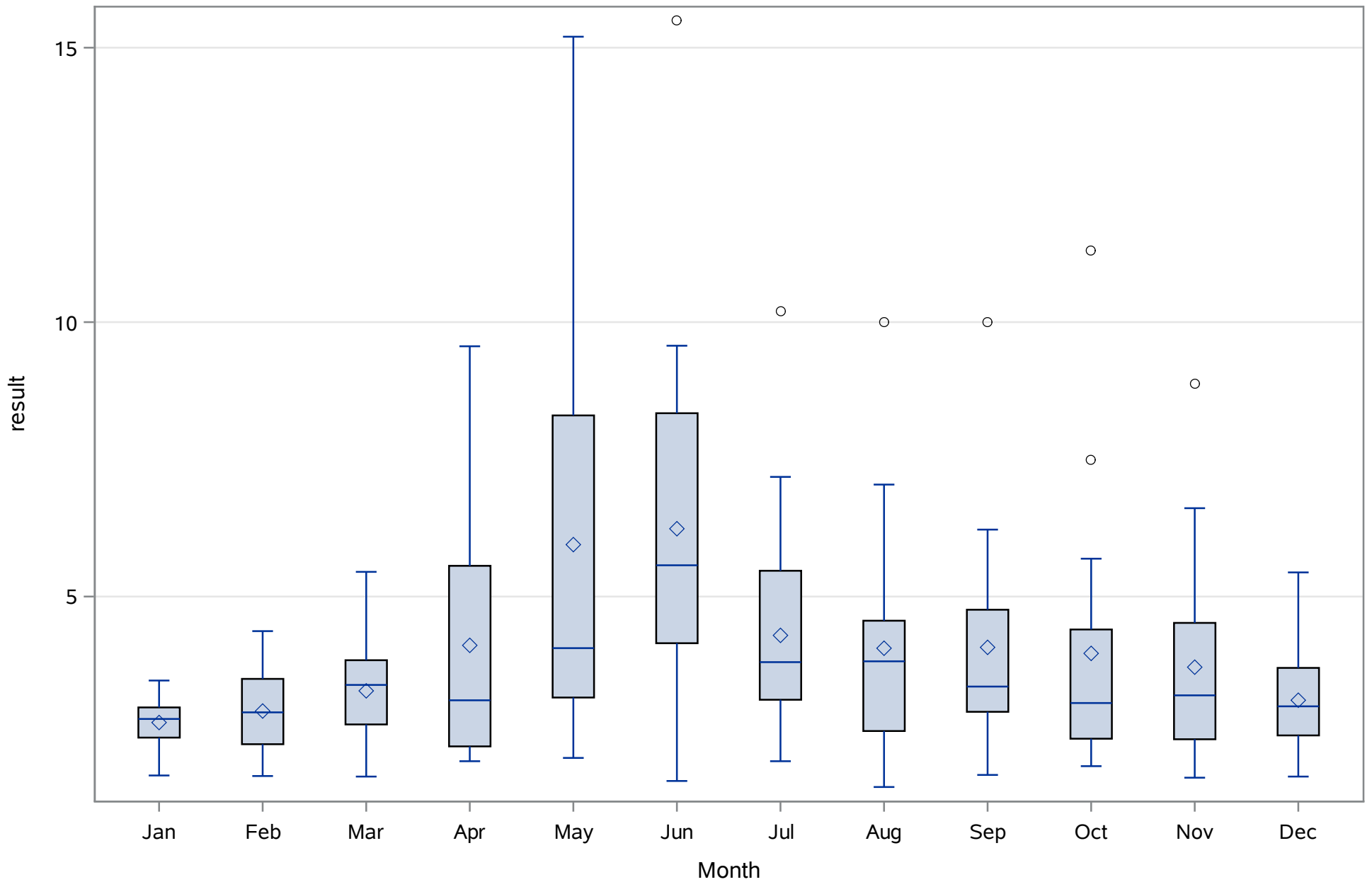
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L



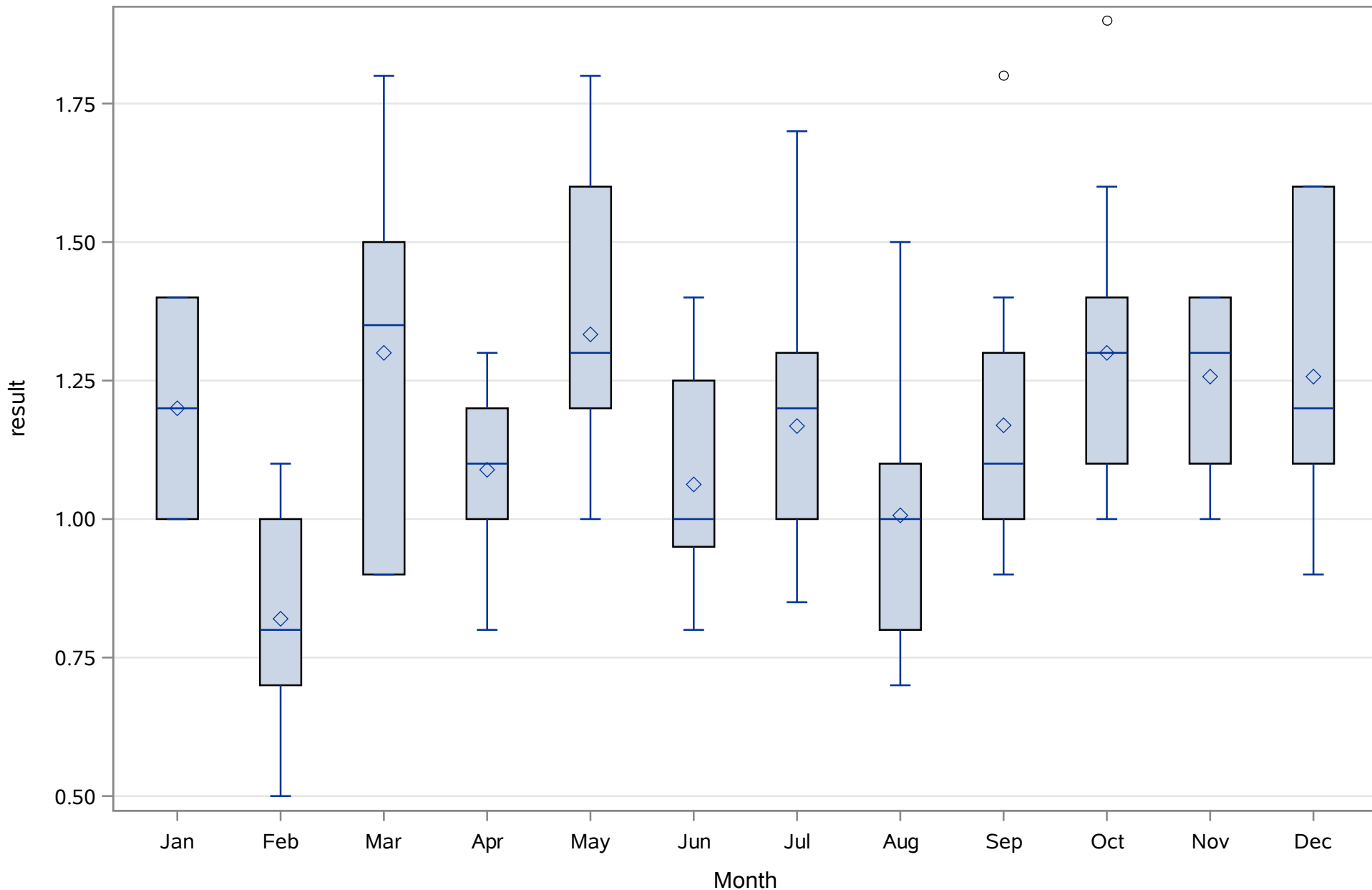
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L



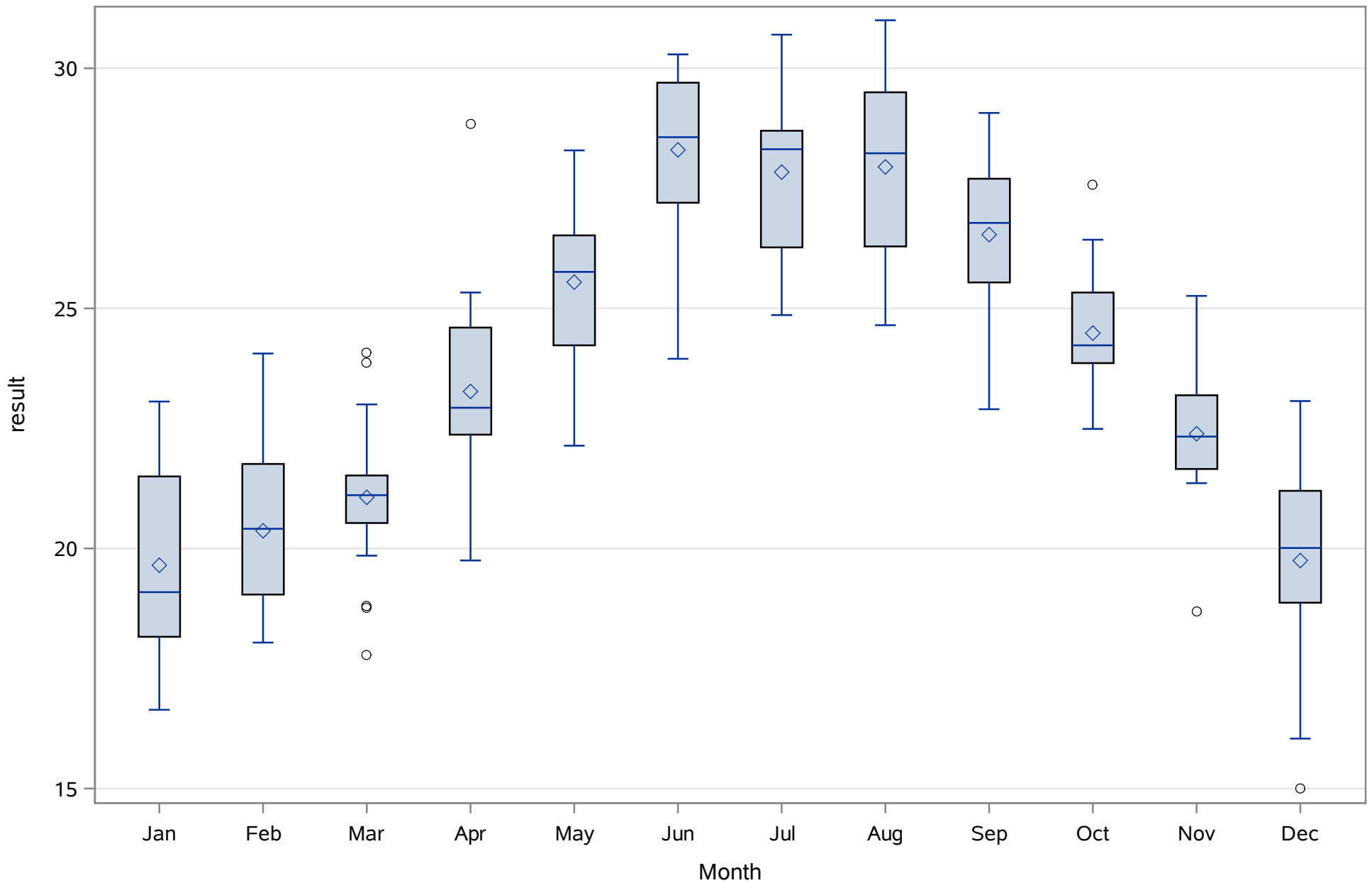
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Salinity (Total) ppth



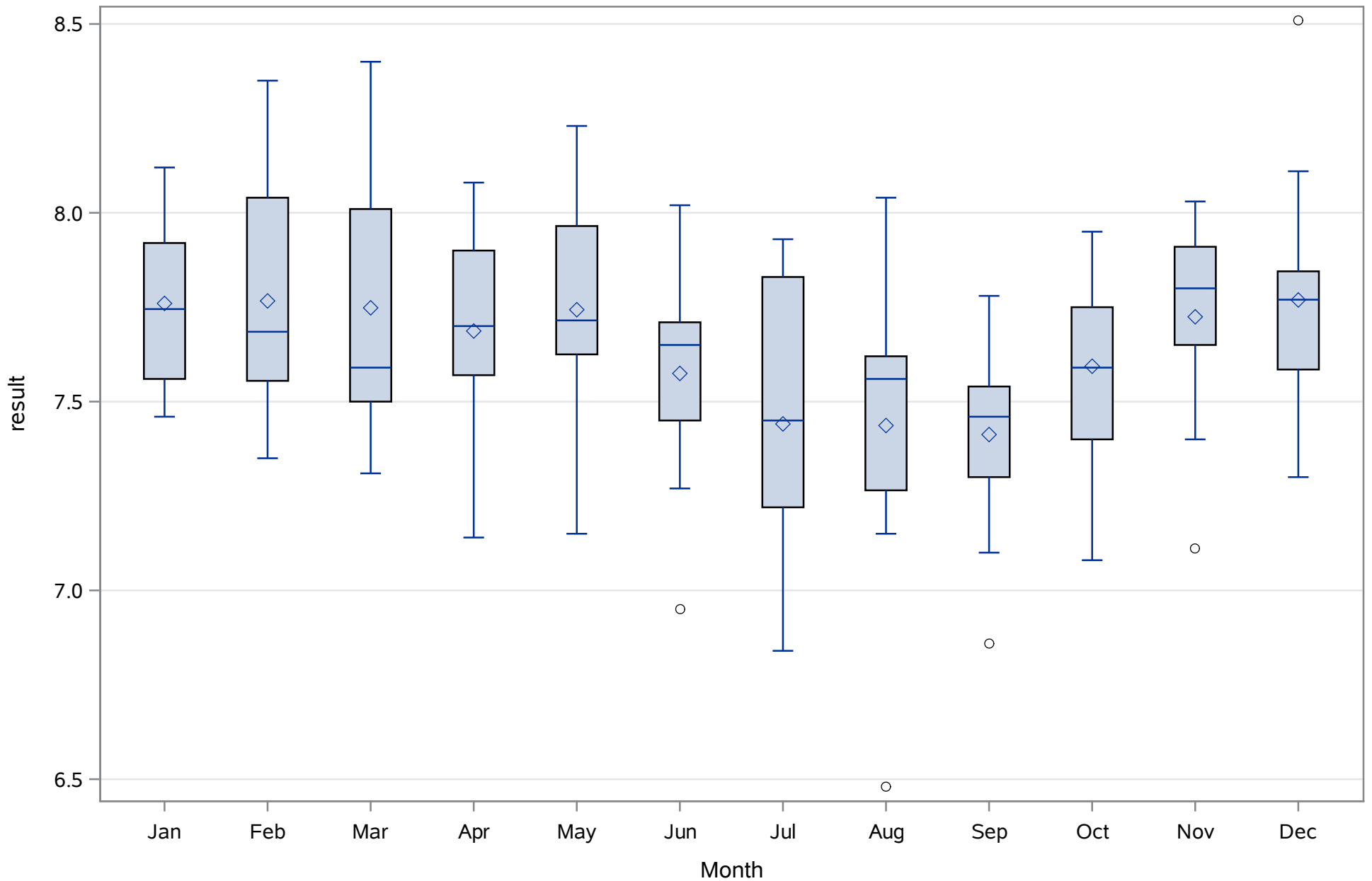
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 2
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Chlorophyll (Total)	ug/L	JUN1997	AUG2014	206	4.9%	1.9%	3.4%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	8.8%	0.0%	2.2%
Color (Total)	PCU	MAY1999	AUG2014	184	5.4%	1.1%	3.3%
Depth (Total)	Meters	JUN1997	AUG2014	207	0.0%	1.4%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	AUG2014	205	1.0%	2.0%	0.5%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	182	3.8%	1.1%	1.6%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	1.5%	1.5%	1.5%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	1.0%	1.9%	0.5%
Salinity (Total)	ppth	JUL1997	AUG2014	207	0.0%	1.4%	0.5%
Secchi-vertical (Total)	Meters	JUL1997	AUG2014	170	0.6%	0.6%	1.2%
Temperature (Total)	Deg. C	JUN1997	AUG2014	206	0.0%	1.9%	0.0%
pH (Total)	SU	DEC2000	AUG2014	142	1.4%	1.4%	0.7%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	4.8142233	Sum Observations	991.73
Std Deviation	3.8087668	Variance	14.5067045
Skewness	2.91950277	Kurtosis	10.4344809
Uncorrected SS	7748.2841	Corrected SS	2973.87443
Coeff Variation	79.114876	Std Error Mean	0.26536936

Basic Statistical Measures			
Location		Variability	
Mean	4.814223	Std Deviation	3.80877
Median	3.880000	Variance	14.50670
Mode	2.500000	Range	24.79000
		Interquartile Range	2.90000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.14159	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.89
99%	21.79
95%	11.08
90%	8.55
75% Q3	5.40
50% Median	3.88
25% Q1	2.50
10%	1.89
5%	1.52

Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 3

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.24
0% Min	1.10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.10	43	18.70	13
1.15	128	20.14	101
1.24	153	21.79	87
1.33	140	23.00	33
1.33	120	25.89	133

Chassahowitzka River - Fixed Station

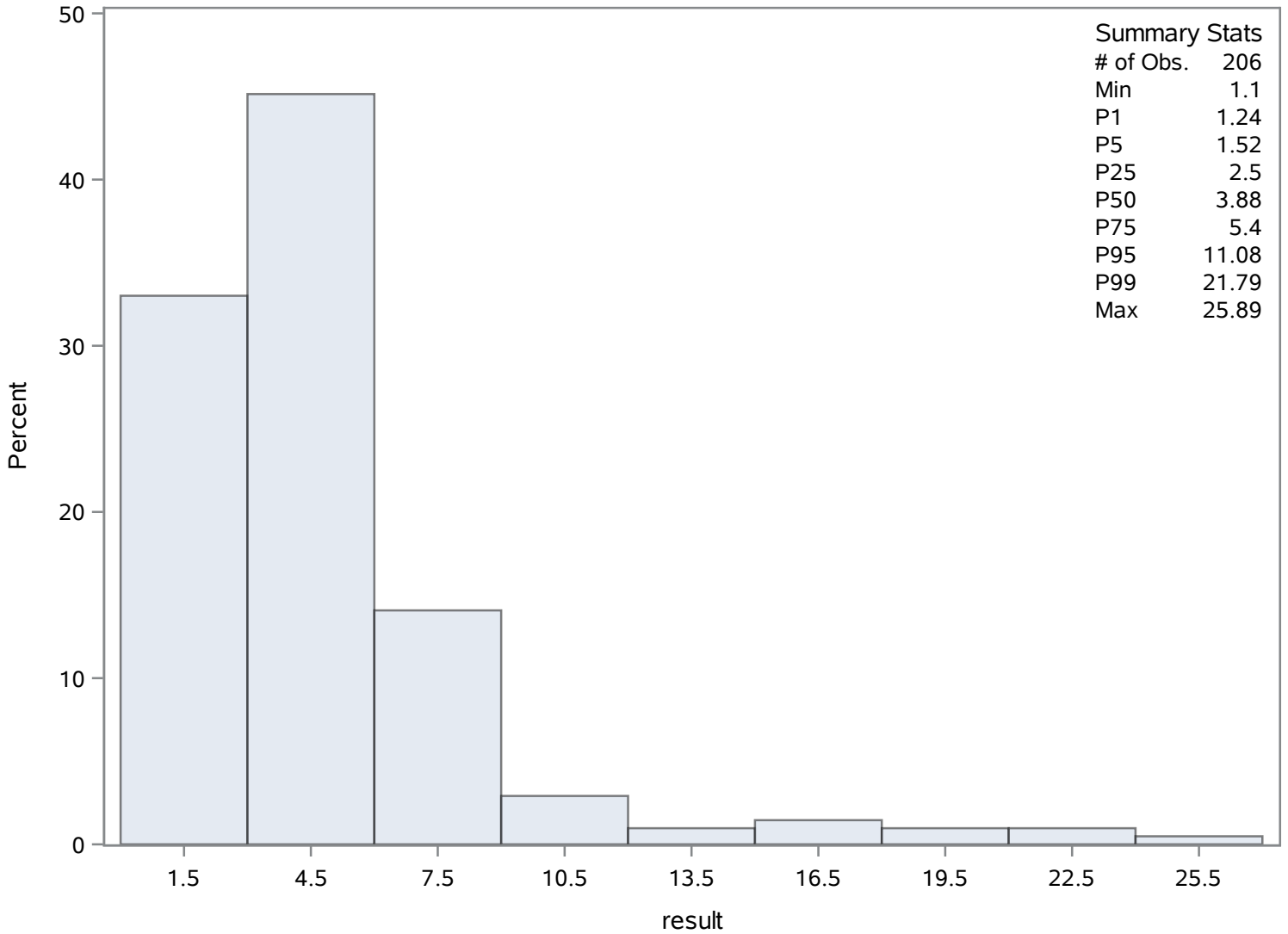
Source: COAST

Chassahowitzka Citrus 3

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	3.46527473	Sum Observations	315.34
Std Deviation	3.21081967	Variance	10.309363
Skewness	3.84053198	Kurtosis	19.9895993
Uncorrected SS	2020.5824	Corrected SS	927.842668
Coeff Variation	92.6570021	Std Error Mean	0.33658536

Basic Statistical Measures			
Location		Variability	
Mean	3.465275	Std Deviation	3.21082
Median	2.790000	Variance	10.30936
Mode	1.230000	Range	23.57000
		Interquartile Range	2.34000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.29538	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.02
99%	24.02
95%	8.49
90%	5.36
75% Q3	4.02
50% Median	2.79
25% Q1	1.68
10%	1.12
5%	0.89

Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 3

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.45
0% Min	0.45

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.45	219	8.49	212
0.67	279	9.27	237
0.78	255	12.18	236
0.78	244	15.19	271
0.89	292	24.02	224

Chassahowitzka River - Fixed Station

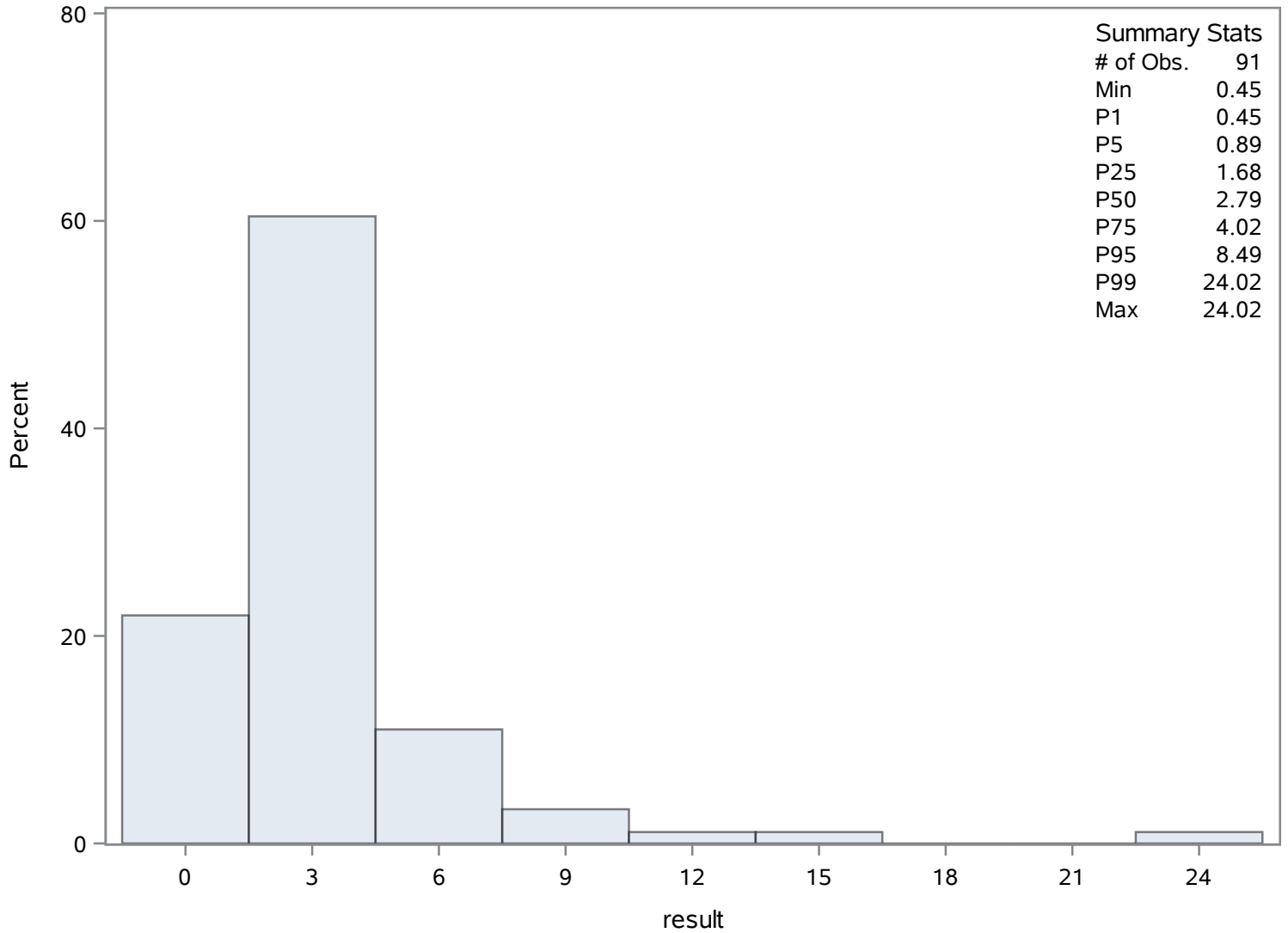
Source: COAST

Chassahowitzka Citrus 3

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	33.0923913	Sum Observations	6089
Std Deviation	23.4978698	Variance	552.149887
Skewness	2.84595224	Kurtosis	9.96045174
Uncorrected SS	302543	Corrected SS	101043.429
Coeff Variation	71.0068657	Std Error Mean	1.73228595

Basic Statistical Measures			
Location		Variability	
Mean	33.09239	Std Deviation	23.49787
Median	27.00000	Variance	552.14989
Mode	15.00000	Range	147.00000
		Interquartile Range	19.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.10331	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	157
99%	145
95%	73
90%	53
75% Q3	38
50% Median	27
25% Q1	19
10%	15
5%	13
1%	11
0% Min	10

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	330	118	446
11	438	120	409
11	437	139	445
11	328	145	324
11	318	157	362

Chassahowitzka River - Fixed Station

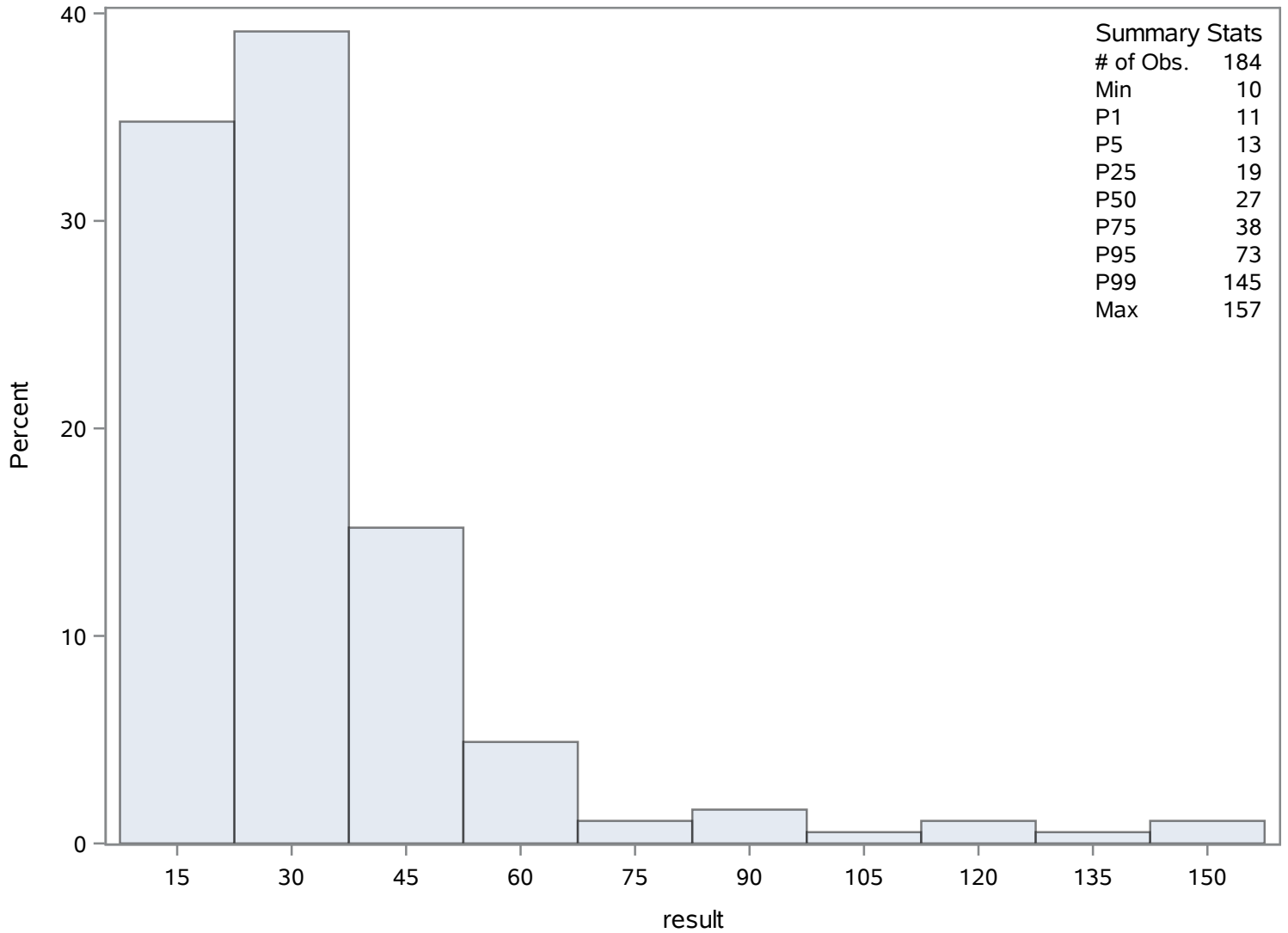
Source: COAST

Chassahowitzka Citrus 3

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	2.64057971	Sum Observations	546.6
Std Deviation	0.80862802	Variance	0.65387927
Skewness	-0.0955787	Kurtosis	-0.3194296
Uncorrected SS	1578.04	Corrected SS	134.69913
Coeff Variation	30.6231248	Std Error Mean	0.05620353

Basic Statistical Measures			
Location		Variability	
Mean	2.640580	Std Deviation	0.80863
Median	2.700000	Variance	0.65388
Mode	2.800000	Range	4.30000
		Interquartile Range	1.10000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	46.98245	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.0
99%	4.4
95%	4.0
90%	3.6
75% Q3	3.2
50% Median	2.7
25% Q1	2.1
10%	1.5
5%	1.2
1%	0.8
0% Min	0.7

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	613	4.1	612
0.8	671	4.2	544
0.8	659	4.4	541
0.9	502	4.5	549
1.1	669	5.0	555

Chassahowitzka River - Fixed Station

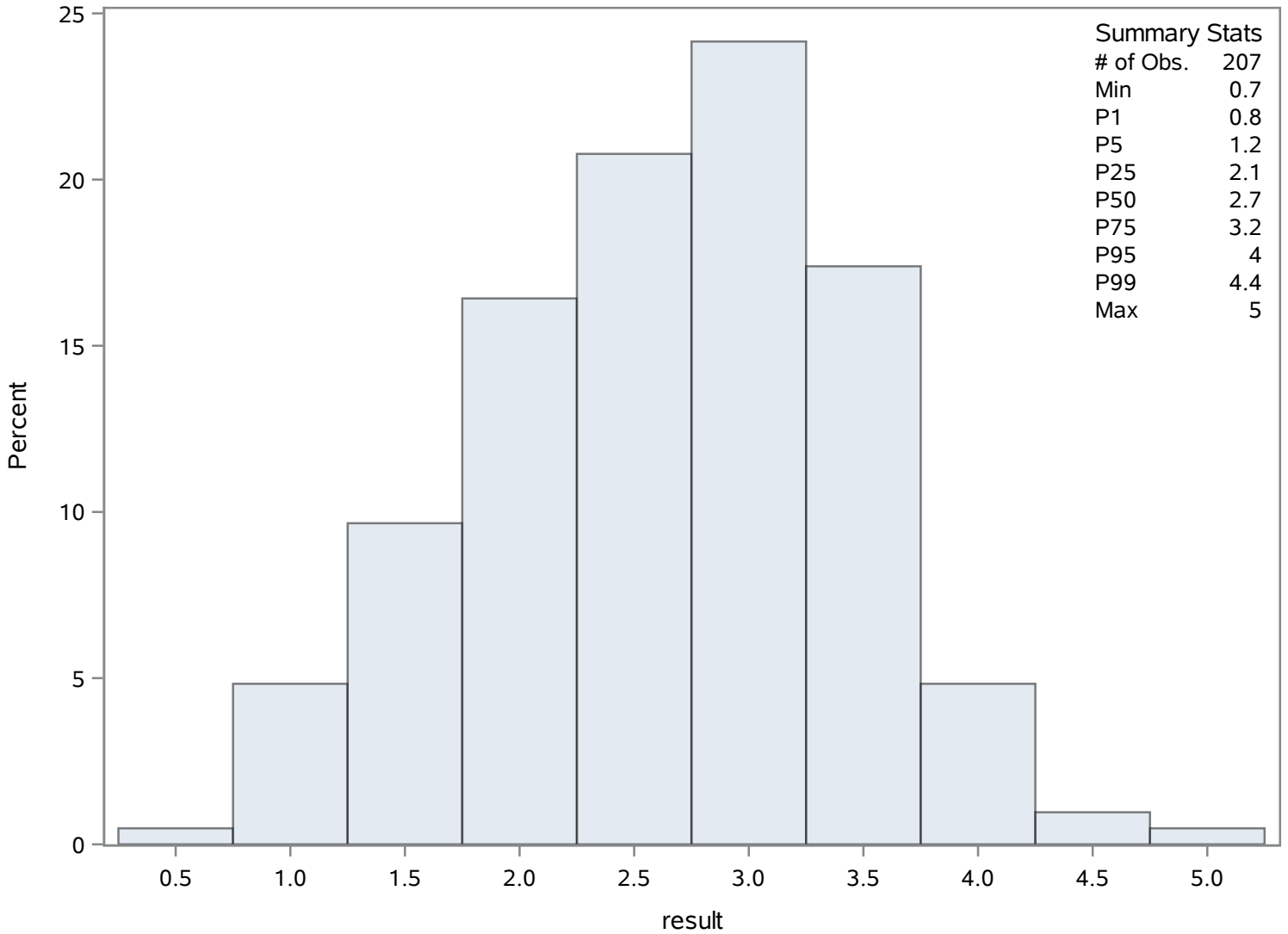
Source: COAST

Chassahowitzka Citrus 3

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	6.38814634	Sum Observations	1309.57
Std Deviation	1.56402932	Variance	2.44618772
Skewness	0.58959514	Kurtosis	1.2527144
Uncorrected SS	8864.7471	Corrected SS	499.022296
Coeff Variation	24.4833045	Std Error Mean	0.10923655

Basic Statistical Measures			
Location		Variability	
Mean	6.388146	Std Deviation	1.56403
Median	6.310000	Variance	2.44619
Mode	7.000000	Range	10.05000
		Interquartile Range	1.88000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	58.47994	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.04
99%	10.60
95%	8.95
90%	8.35
75% Q3	7.24
50% Median	6.31
25% Q1	5.36
10%	4.37
5%	3.86

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.30
0% Min	2.99

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.99	737	10.00	730
3.19	858	10.52	755
3.30	718	10.60	709
3.61	845	10.96	850
3.63	810	13.04	775

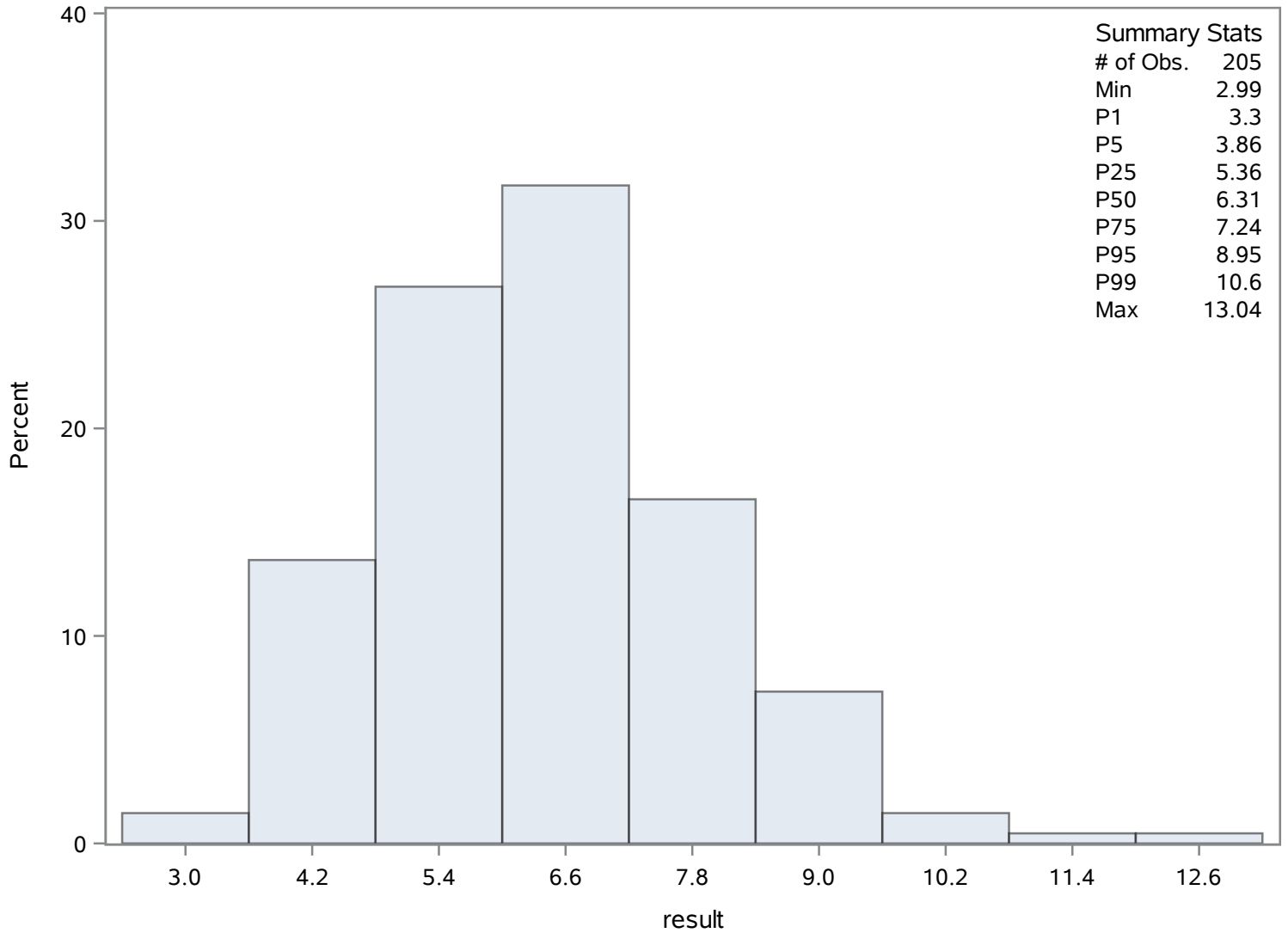
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 3 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	182	Sum Weights	182
Mean	1.86448901	Sum Observations	339.337
Std Deviation	0.94984912	Variance	0.90221336
Skewness	4.90167276	Kurtosis	36.5984641
Uncorrected SS	795.990725	Corrected SS	163.300617
Coeff Variation	50.944206	Std Error Mean	0.0704075

Basic Statistical Measures			
Location		Variability	
Mean	1.864489	Std Deviation	0.94985
Median	1.712500	Variance	0.90221
Mode	1.250000	Range	9.78500
		Interquartile Range	0.66100

Note: The mode displayed is the smallest of 14 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.4814	Pr > t 	<.0001
Sign	M	91	Pr >= M 	<.0001
Signed Rank	S	8326.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.2900
99%	6.3790
95%	3.1690
90%	2.5900
75% Q3	2.0250
50% Median	1.7125
25% Q1	1.3640
10%	1.1810
5%	1.0680

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

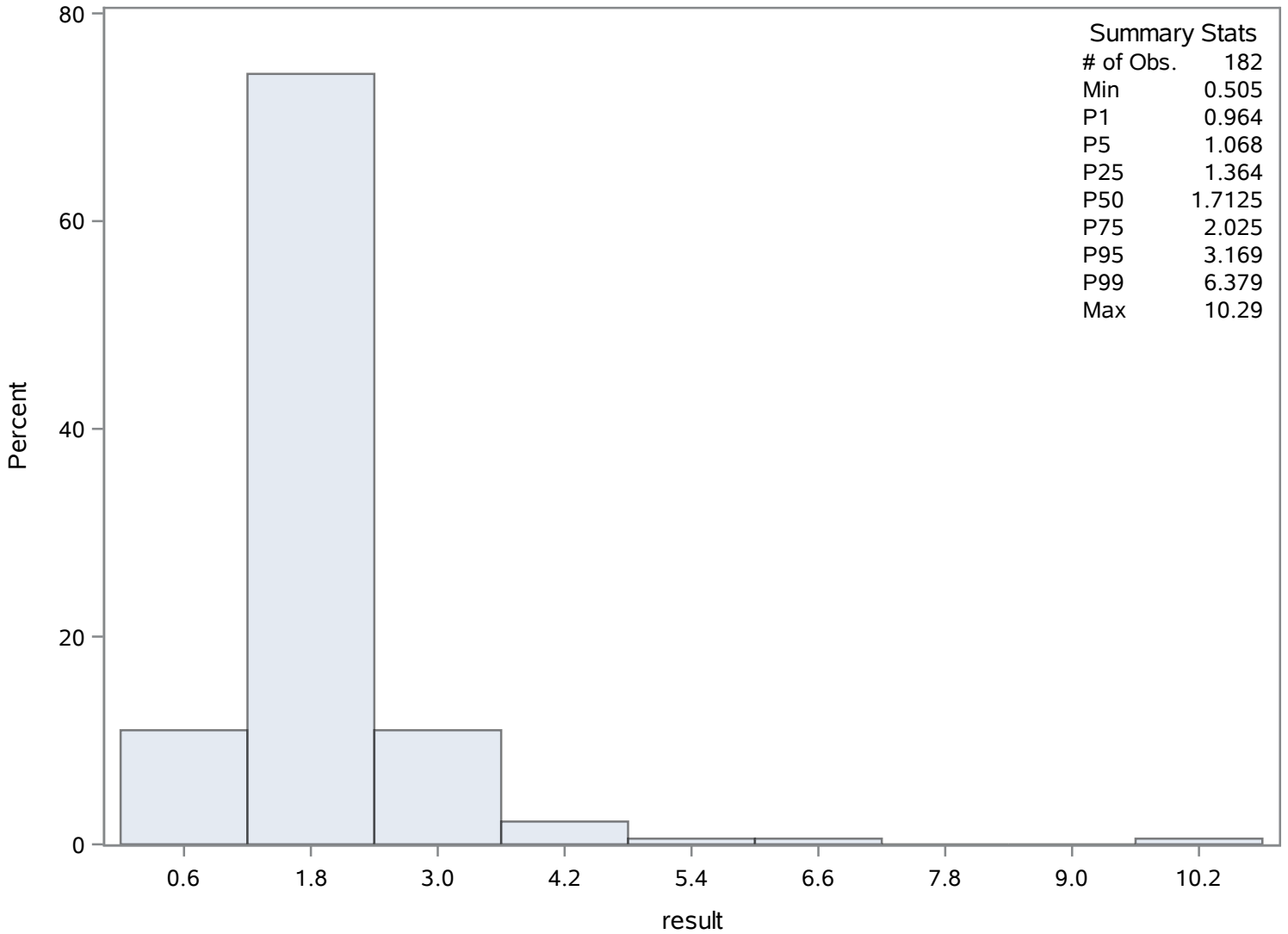
Quantiles (Definition 5)	
Level	Quantile
1%	0.9640
0% Min	0.5050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.505	975	3.894	918
0.964	1066	4.071	956
0.972	1072	5.004	925
0.980	907	6.379	942
1.010	1010	10.290	943

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	406.699029	Sum Observations	83780
Std Deviation	150.844054	Variance	22753.9285
Skewness	1.04747336	Kurtosis	1.31849323
Uncorrected SS	38737800	Corrected SS	4664555.34
Coeff Variation	37.0898484	Std Error Mean	10.5098032

Basic Statistical Measures			
Location		Variability	
Mean	406.6990	Std Deviation	150.84405
Median	380.0000	Variance	22754
Mode	280.0000	Range	810.00000
		Interquartile Range	200.00000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	38.69711	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	970
99%	880
95%	690
90%	620
75% Q3	490
50% Median	380
25% Q1	290
10%	240
5%	210

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	170
0% Min	160

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
160	1096	790	1089
170	1273	820	1277
170	1213	880	1088
170	1143	960	1246
190	1157	970	1210

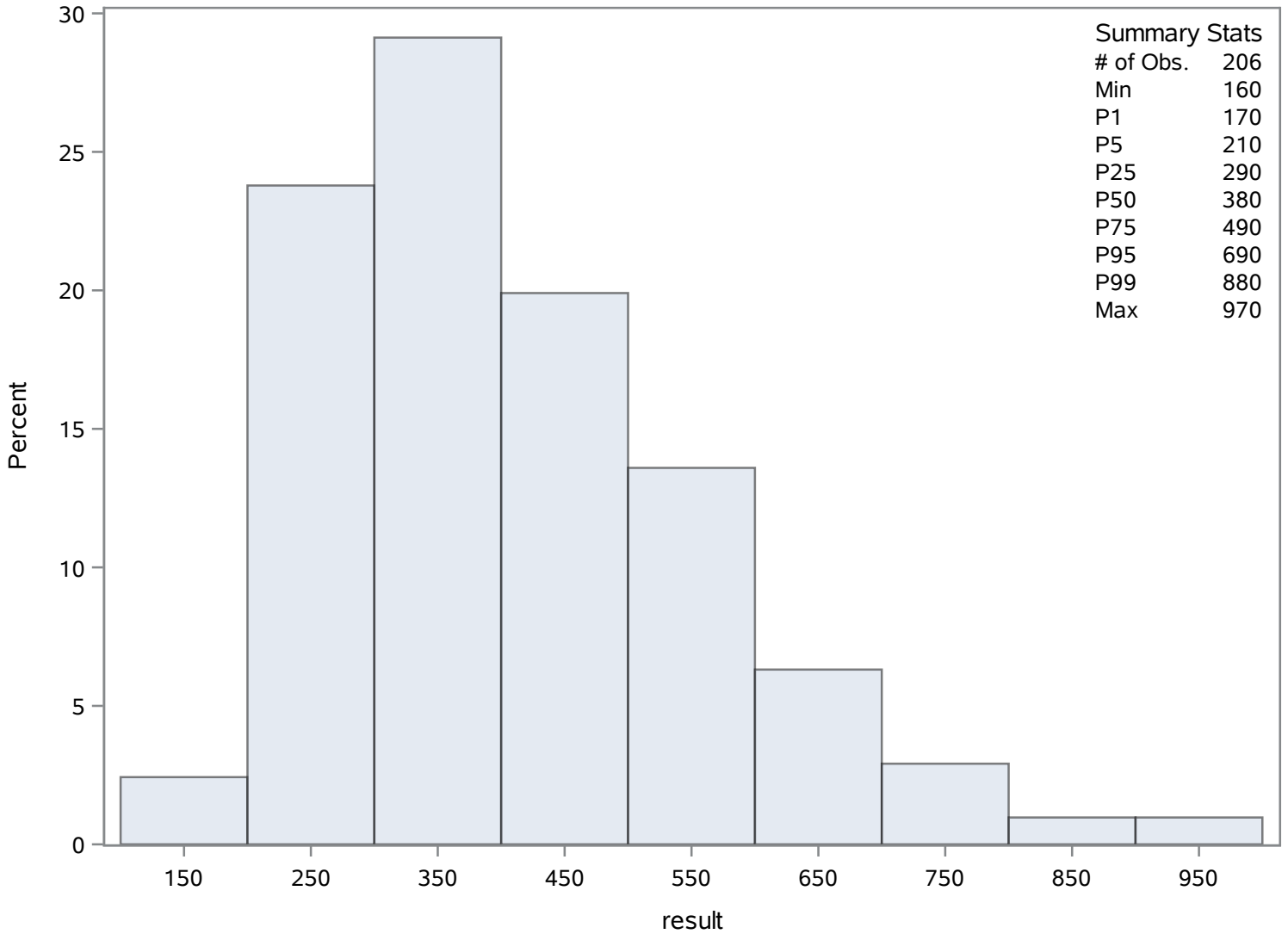
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 3 Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	20.1990291	Sum Observations	4161
Std Deviation	6.3456687	Variance	40.2675112
Skewness	0.6456524	Kurtosis	0.69892945
Uncorrected SS	92303	Corrected SS	8254.83981
Coeff Variation	31.4157114	Std Error Mean	0.44212369

Basic Statistical Measures			
Location		Variability	
Mean	20.19903	Std Deviation	6.34567
Median	19.00000	Variance	40.26751
Mode	19.00000	Range	38.00000
		Interquartile Range	8.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	45.68638	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	43
99%	37
95%	32
90%	29
75% Q3	24
50% Median	19
25% Q1	16
10%	13
5%	11
1%	8
0% Min	5

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	1454	36	1416
6	1483	37	1448
8	1349	37	1452
9	1479	39	1403
9	1303	43	1429

Chassahowitzka River - Fixed Station

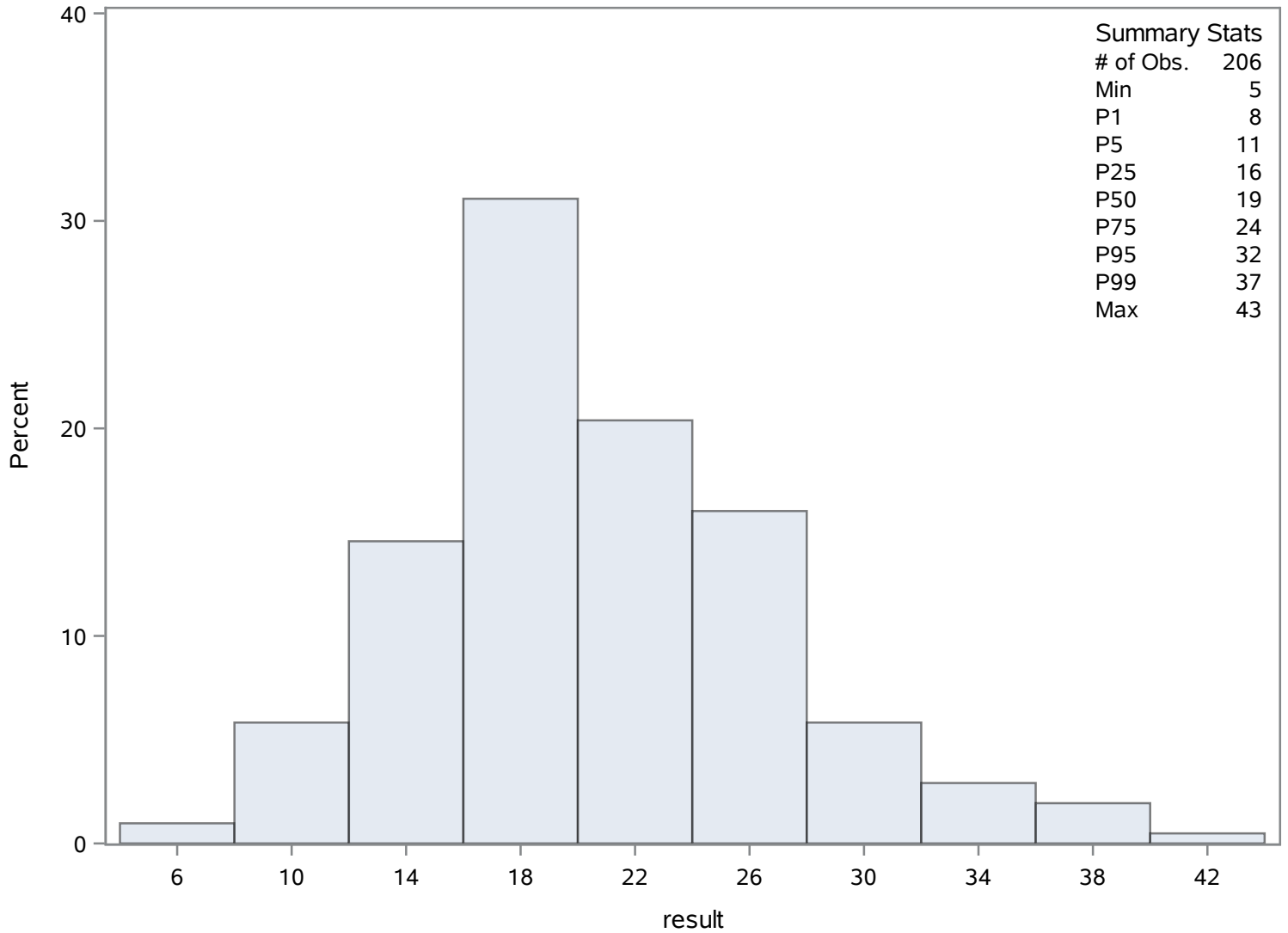
Source: COAST

Chassahowitzka Citrus 3

Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	8.19463768	Sum Observations	1696.29
Std Deviation	4.16734925	Variance	17.3667997
Skewness	1.02593225	Kurtosis	1.06681396
Uncorrected SS	17478.0427	Corrected SS	3577.56075
Coeff Variation	50.8545882	Std Error Mean	0.2896508

Basic Statistical Measures			
Location		Variability	
Mean	8.194638	Std Deviation	4.16735
Median	7.490000	Variance	17.36680
Mode	4.000000	Range	23.77000
		Interquartile Range	5.75000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.29144	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.90
99%	18.69
95%	16.67
90%	14.16
75% Q3	10.63
50% Median	7.49
25% Q1	4.88
10%	3.66
5%	3.14
1%	2.42
0% Min	2.13

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.13	1567	18.18	1630
2.26	1561	18.20	1524
2.42	1574	18.69	1666
2.69	1591	20.00	1490
2.74	1589	25.90	1511

Chassahowitzka River - Fixed Station

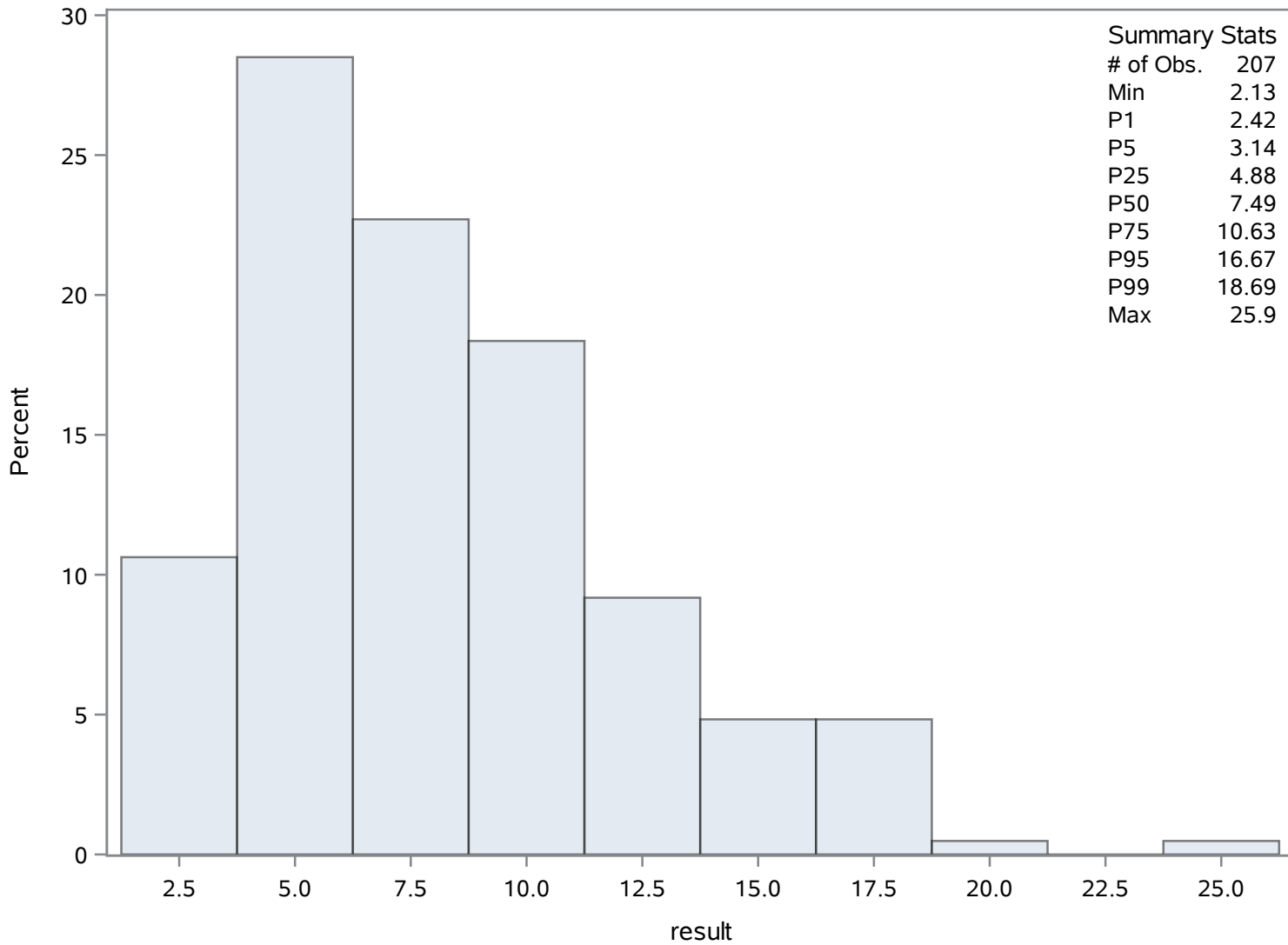
Source: COAST

Chassahowitzka Citrus 3

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	170	Sum Weights	170
Mean	1.55411765	Sum Observations	264.2
Std Deviation	0.43962139	Variance	0.19326697
Skewness	0.50022879	Kurtosis	0.49112451
Uncorrected SS	443.26	Corrected SS	32.6621176
Coeff Variation	28.2875233	Std Error Mean	0.03371742

Basic Statistical Measures			
Location		Variability	
Mean	1.554118	Std Deviation	0.43962
Median	1.500000	Variance	0.19327
Mode	1.300000	Range	2.40000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	46.09242	Pr > t 	<.0001
Sign	M	85	Pr >= M 	<.0001
Signed Rank	S	7267.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.1
99%	2.9
95%	2.3
90%	2.1
75% Q3	1.8
50% Median	1.5
25% Q1	1.3
10%	1.0
5%	0.9
1%	0.7
0% Min	0.7

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	1840	2.5	1736
0.7	1836	2.6	1727
0.7	1721	2.6	1763
0.8	1847	2.9	1751
0.8	1797	3.1	1711

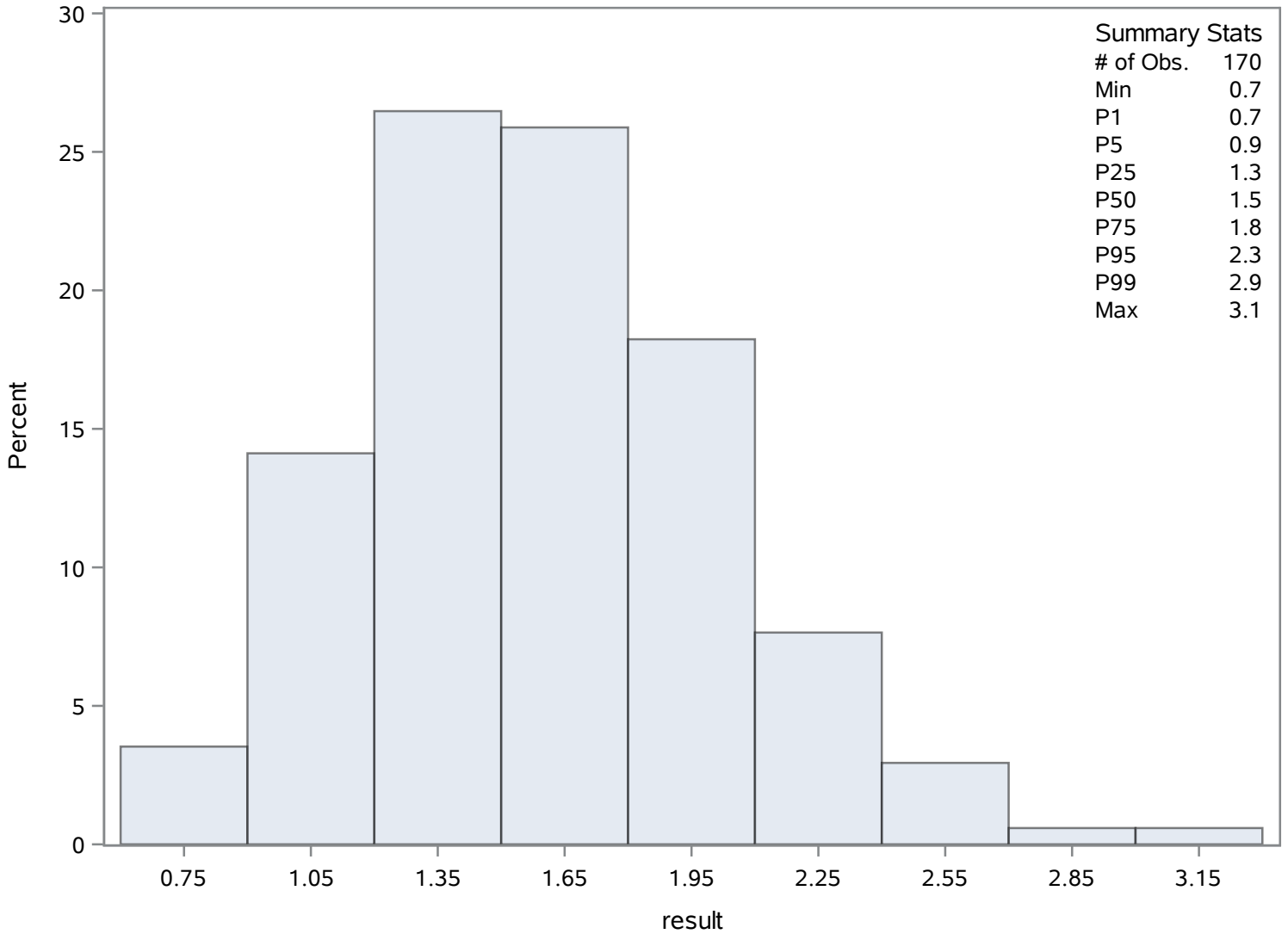
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 3 Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	23.8112621	Sum Observations	4905.12
Std Deviation	4.90199276	Variance	24.029533
Skewness	-0.3172717	Kurtosis	-0.863027
Uncorrected SS	121723.152	Corrected SS	4926.05427
Coeff Variation	20.5868666	Std Error Mean	0.34153802

Basic Statistical Measures			
Location		Variability	
Mean	23.81126	Std Deviation	4.90199
Median	23.90000	Variance	24.02953
Mode	28.00000	Range	20.54000
		Interquartile Range	7.94000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	69.71775	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.04
99%	31.30
95%	30.80
90%	30.07
75% Q3	27.95
50% Median	23.90
25% Q1	20.01
10%	17.07
5%	15.86
1%	12.85
0% Min	11.50

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.50	1906	31.20	1877
11.84	2027	31.20	1903
12.85	2026	31.30	1879
13.19	1931	31.48	1986
13.76	2003	32.04	2020

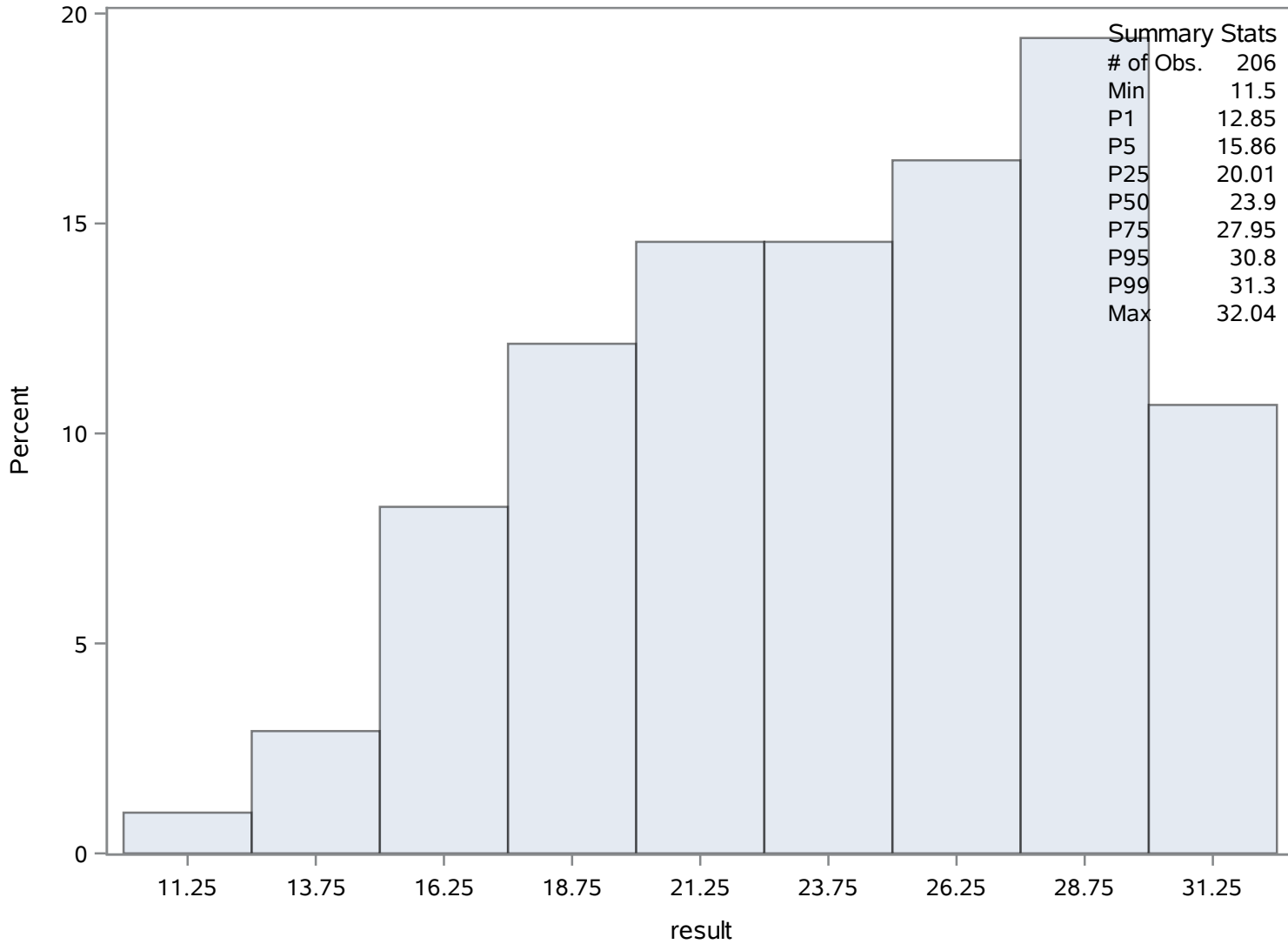
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 3 Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	142	Sum Weights	142
Mean	7.71443662	Sum Observations	1095.45
Std Deviation	0.30731167	Variance	0.09444046
Skewness	-0.255018	Kurtosis	1.5942251
Uncorrected SS	8464.0957	Corrected SS	13.3161049
Coeff Variation	3.98359183	Std Error Mean	0.02578902

Basic Statistical Measures			
Location		Variability	
Mean	7.714437	Std Deviation	0.30731
Median	7.730000	Variance	0.09444
Mode	7.600000	Range	2.11000
		Interquartile Range	0.34000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	299.1365	Pr > t 	<.0001
Sign	M	71	Pr >= M 	<.0001
Signed Rank	S	5076.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.61
99%	8.47
95%	8.19
90%	8.10
75% Q3	7.88
50% Median	7.73
25% Q1	7.54
10%	7.35
5%	7.25

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	6.90
0% Min	6.50

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.50	2141	8.26	2158
6.90	2142	8.40	2074
7.08	2199	8.40	2168
7.10	2191	8.47	2072
7.12	2175	8.61	2071

Chassahowitzka River - Fixed Station

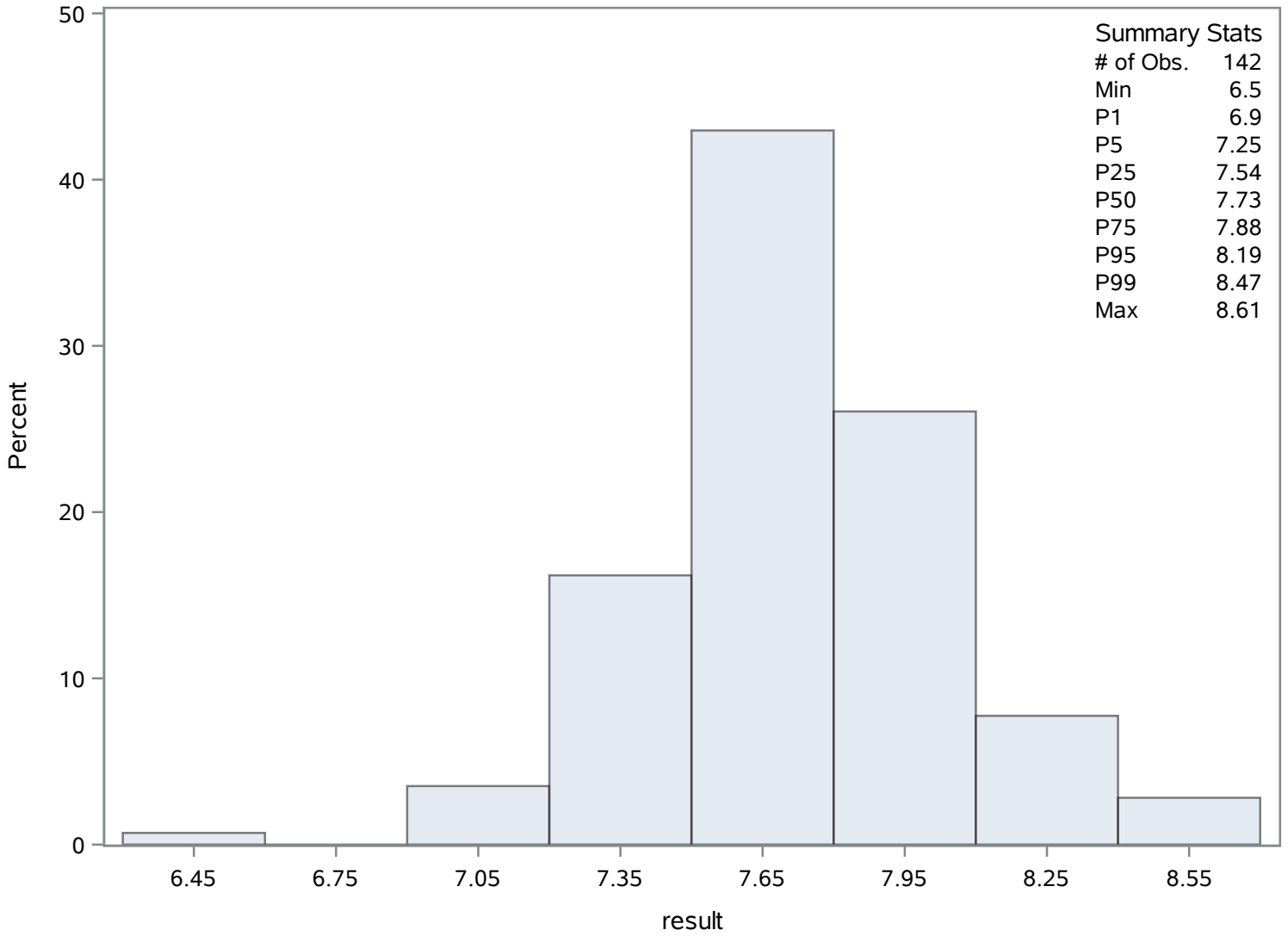
Source: COAST

Chassahowitzka Citrus 3

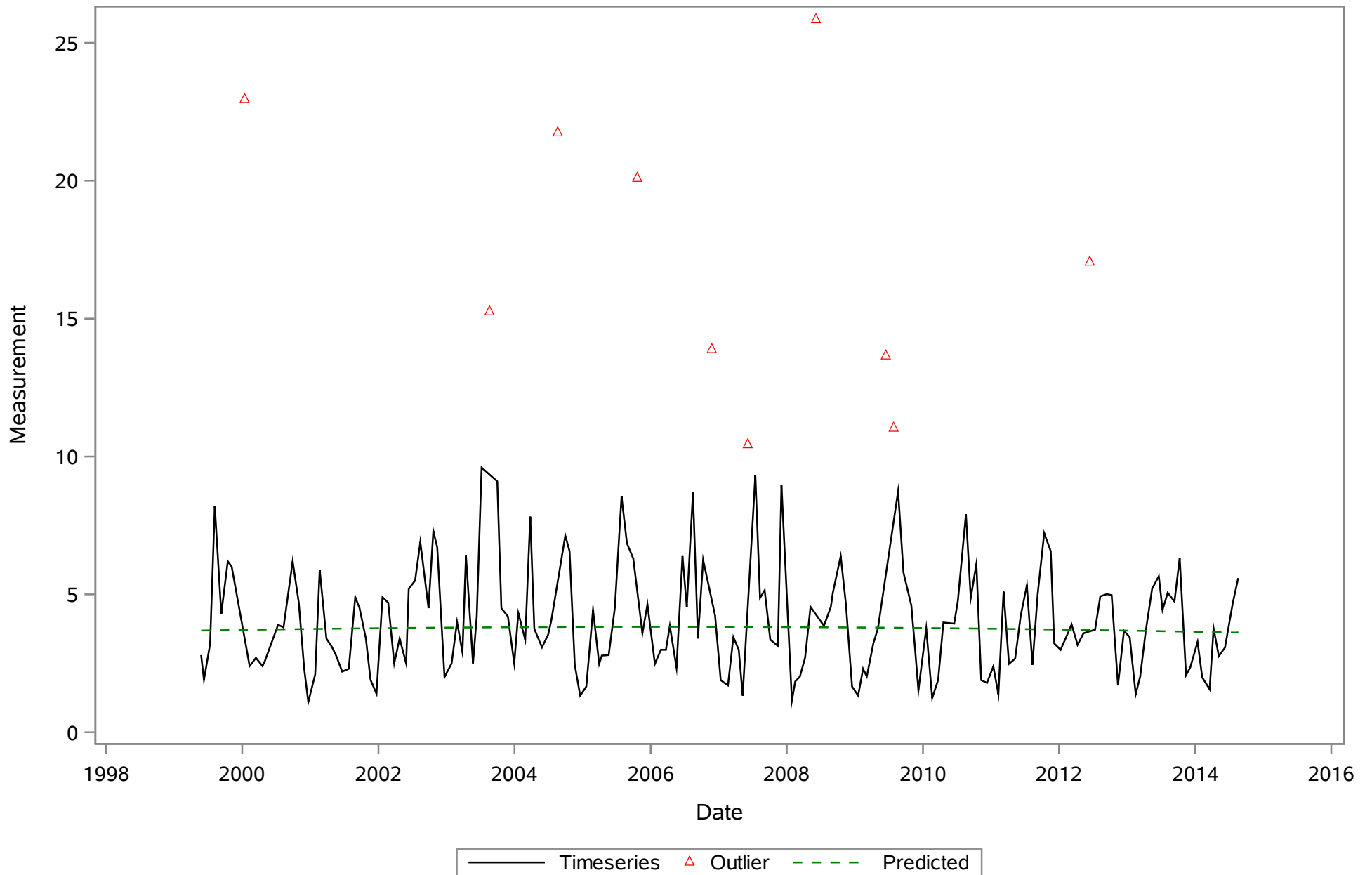
pH (Total) SU

The UNIVARIATE Procedure

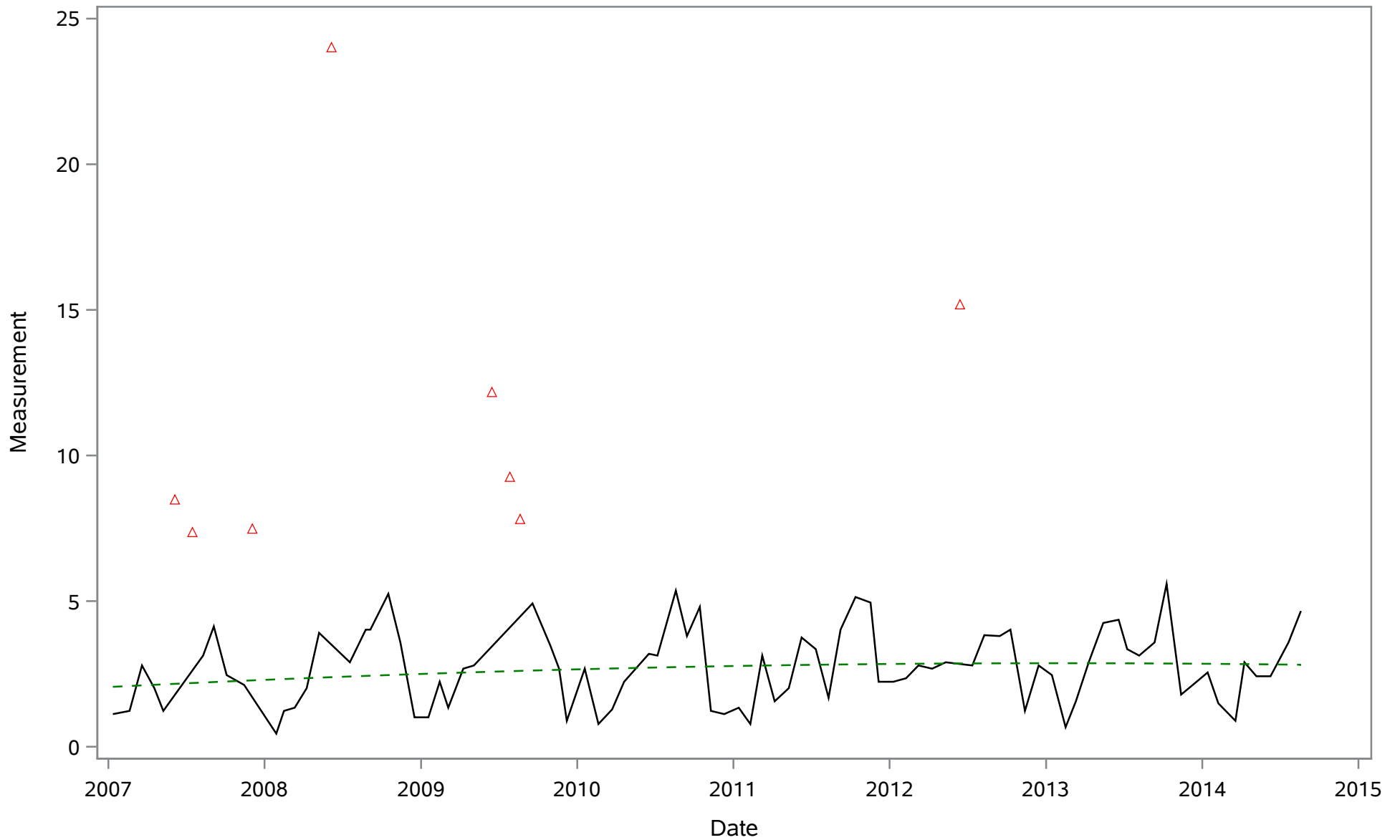
Distribution of result



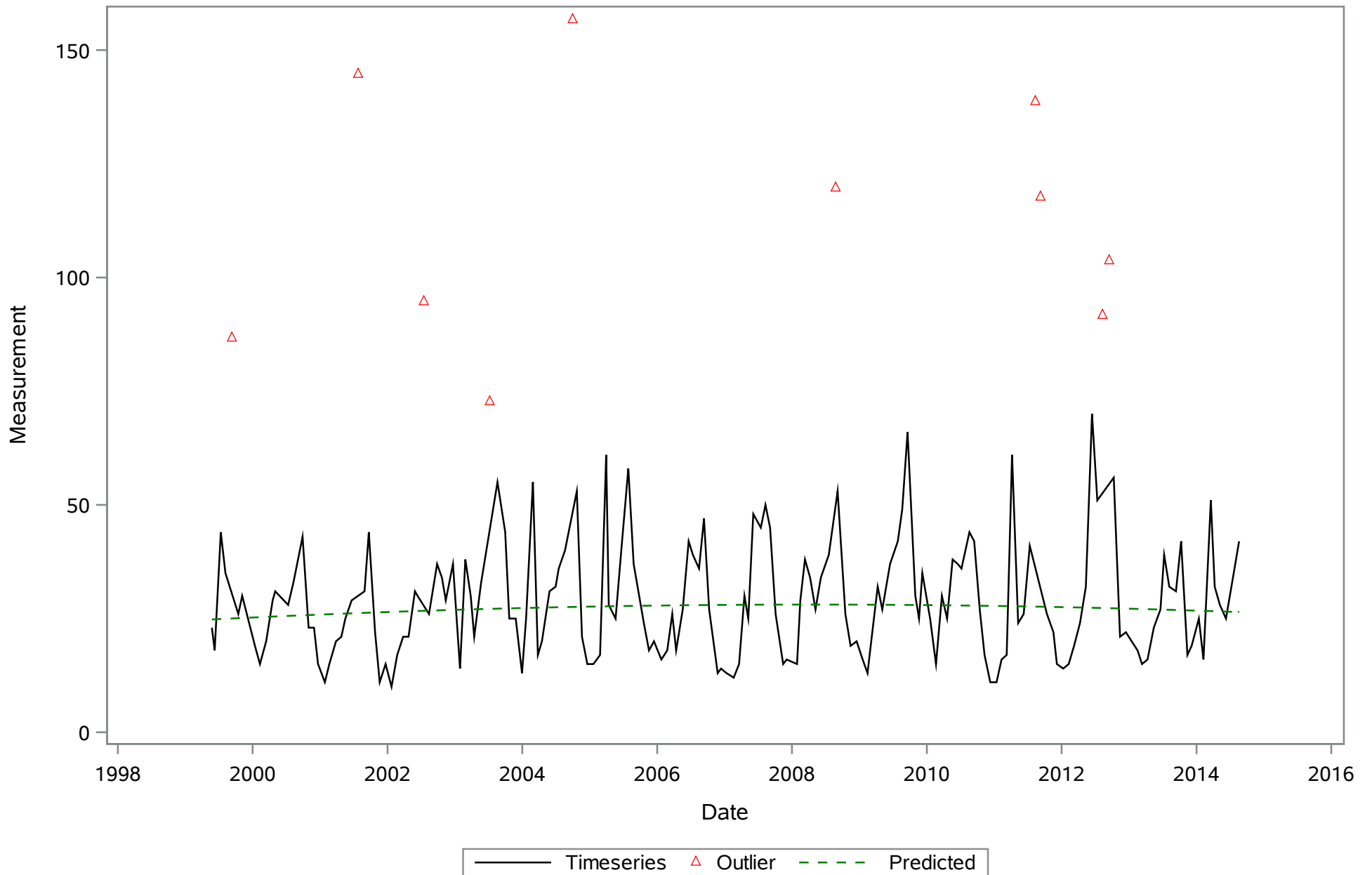
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Chlorophyll (Total) ug/L



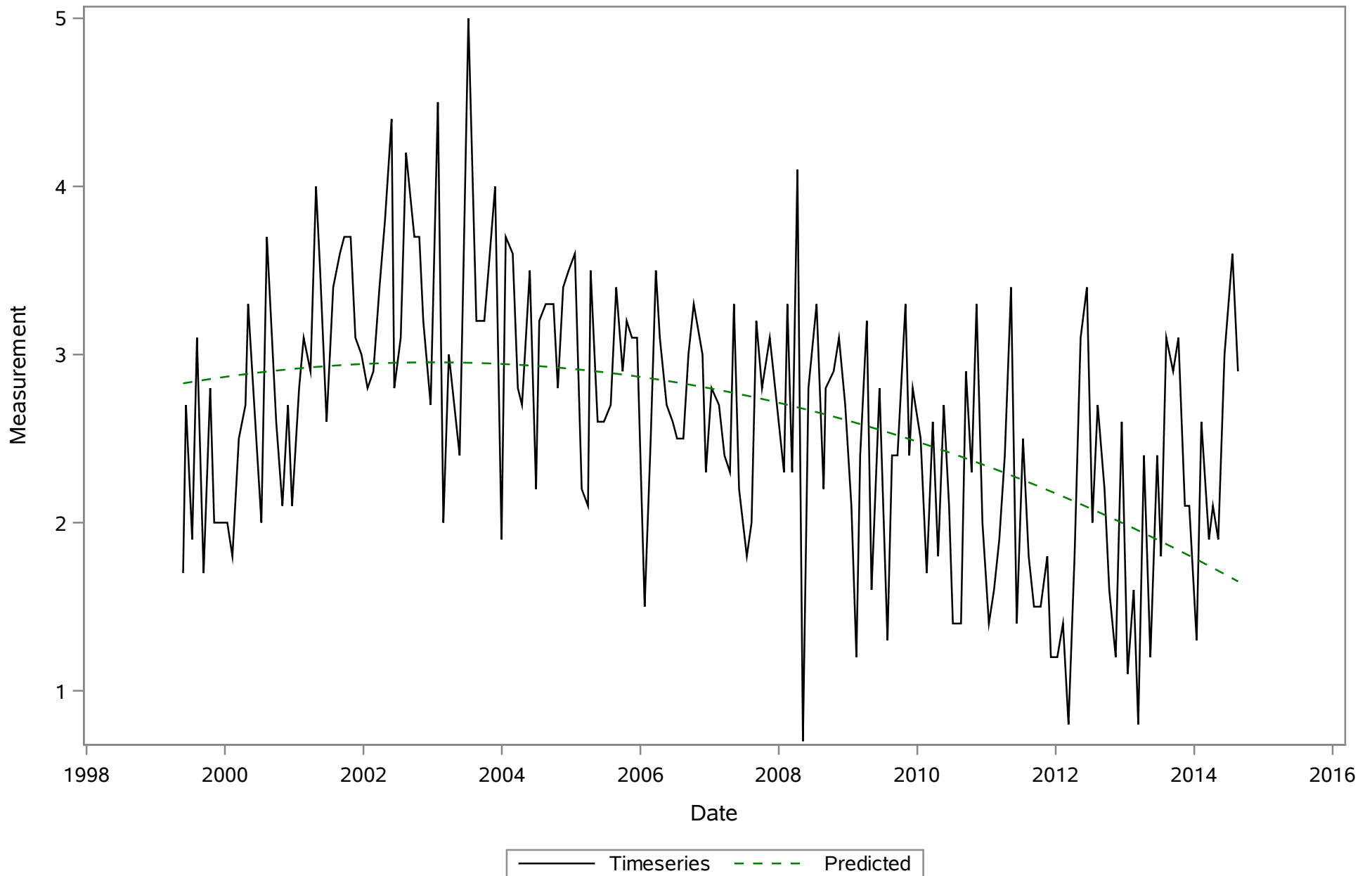
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Chlorophyll a (Total) ug/L



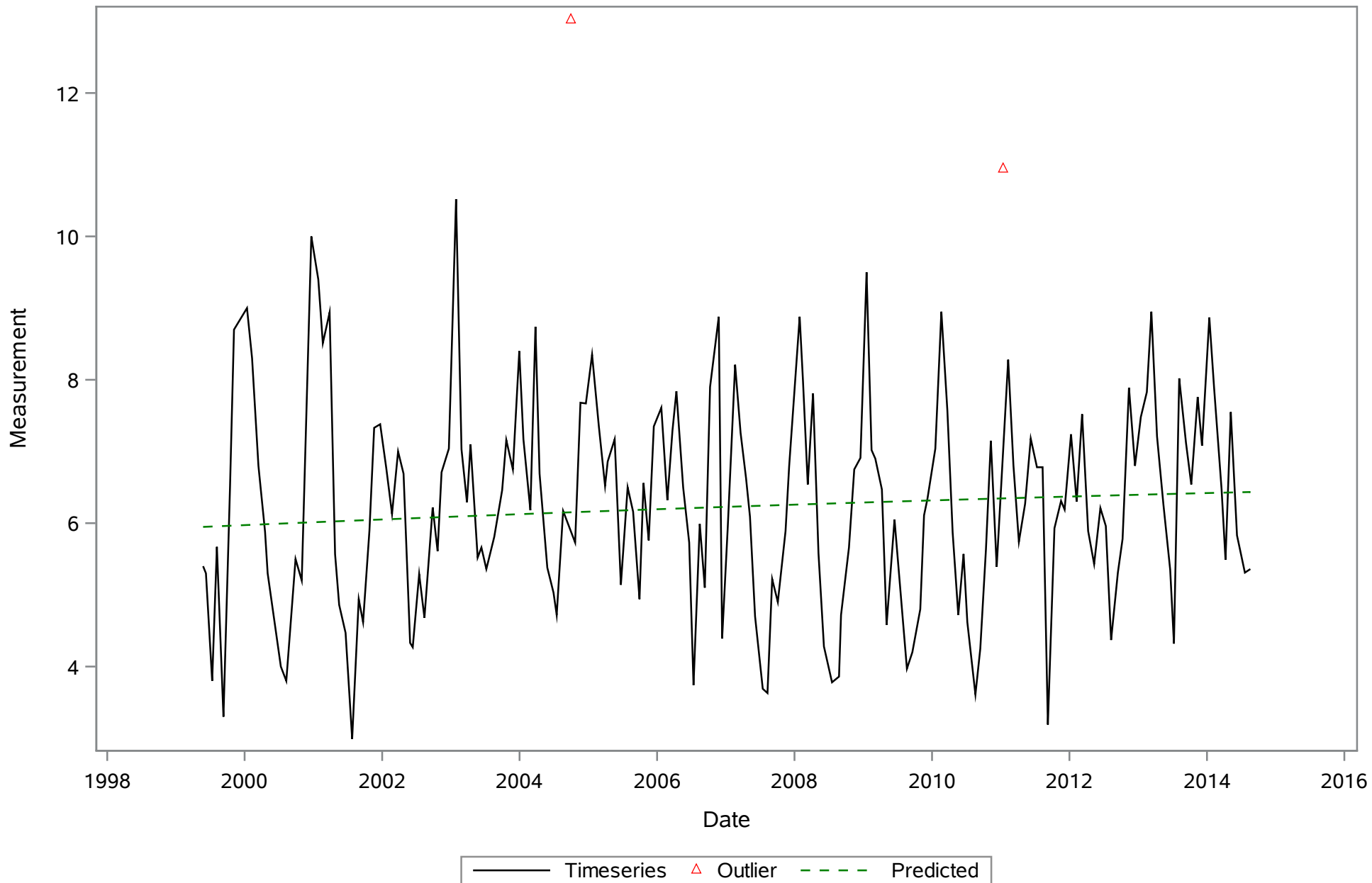
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Color (Total) PCU



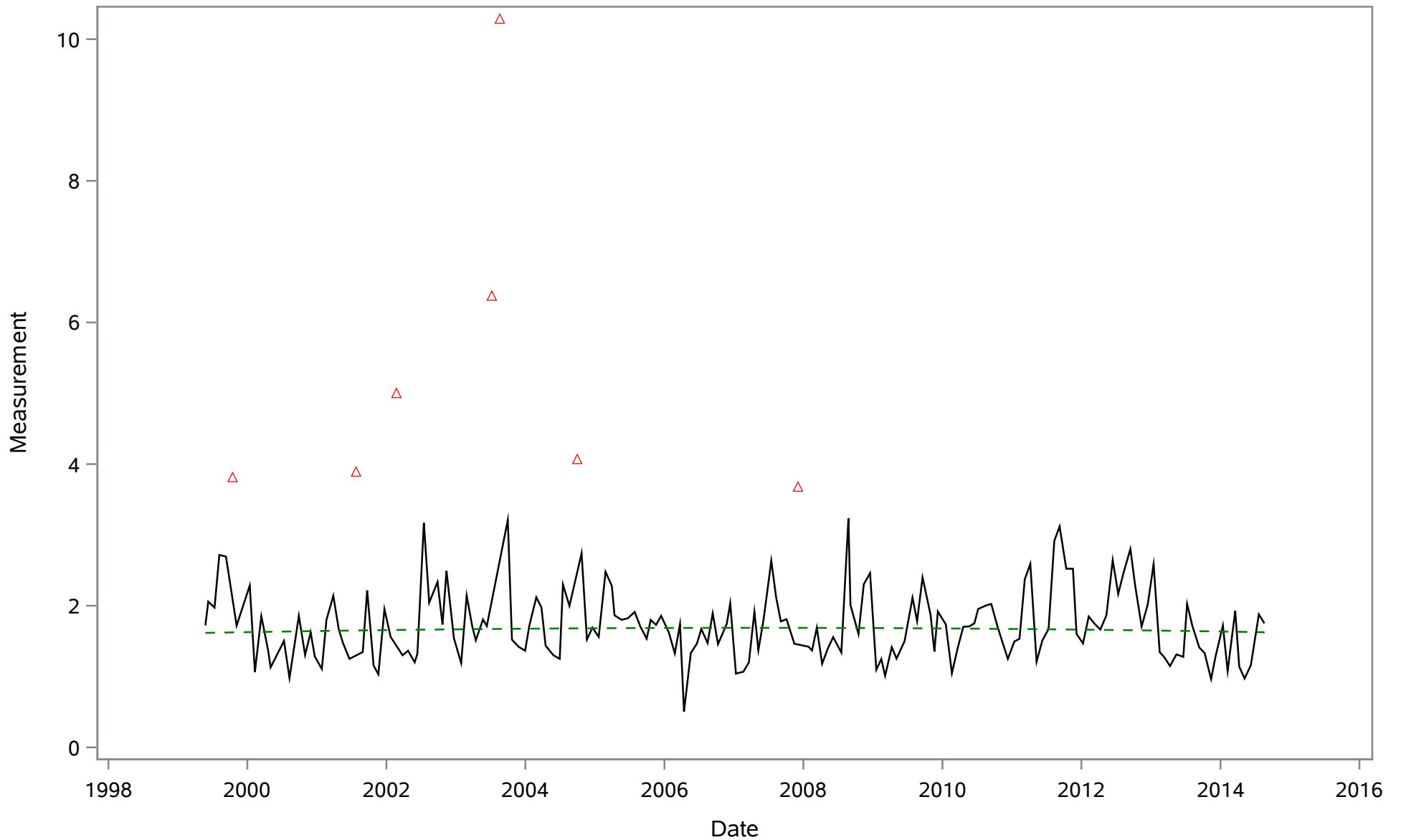
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Depth (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L

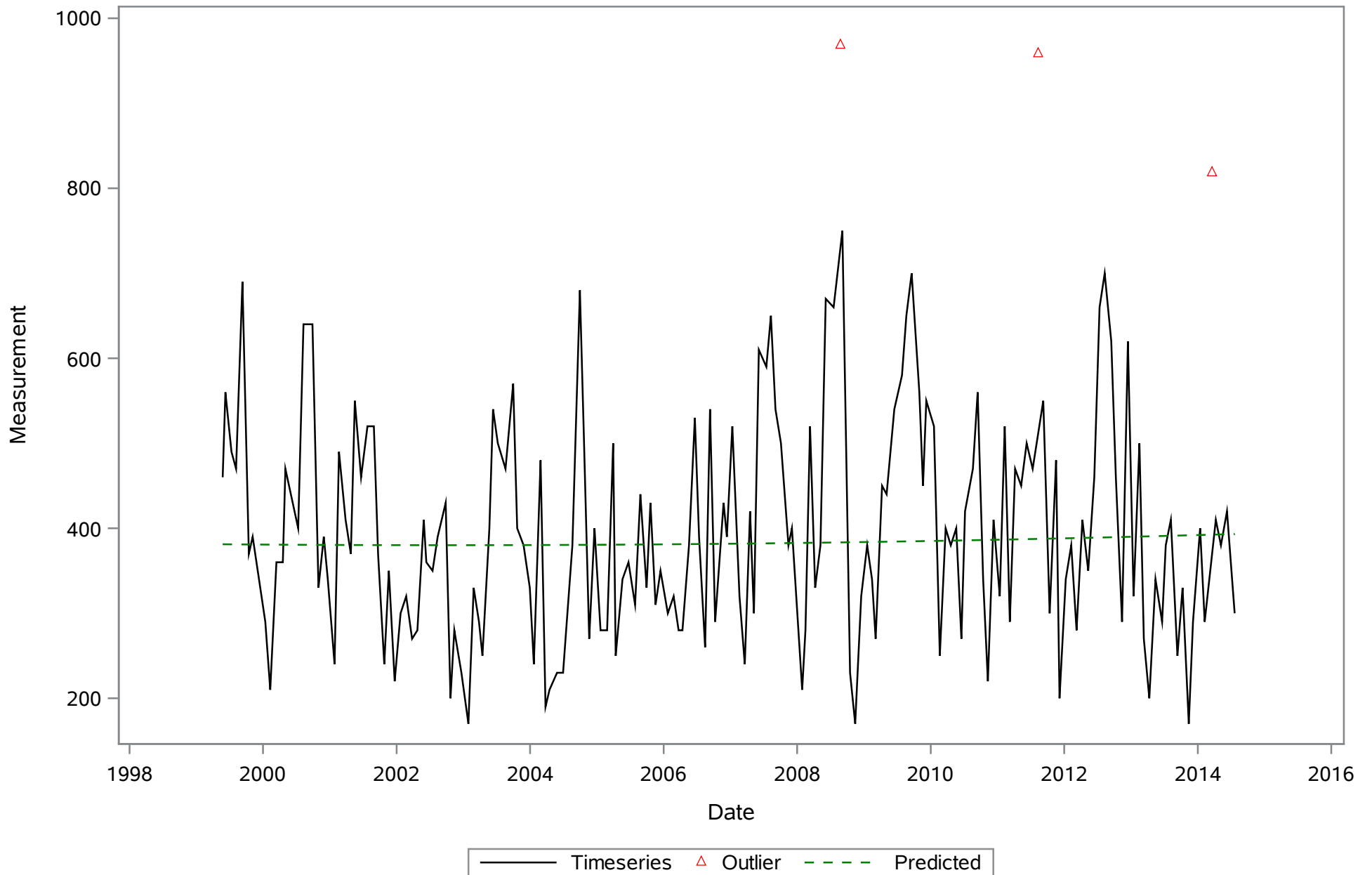


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m

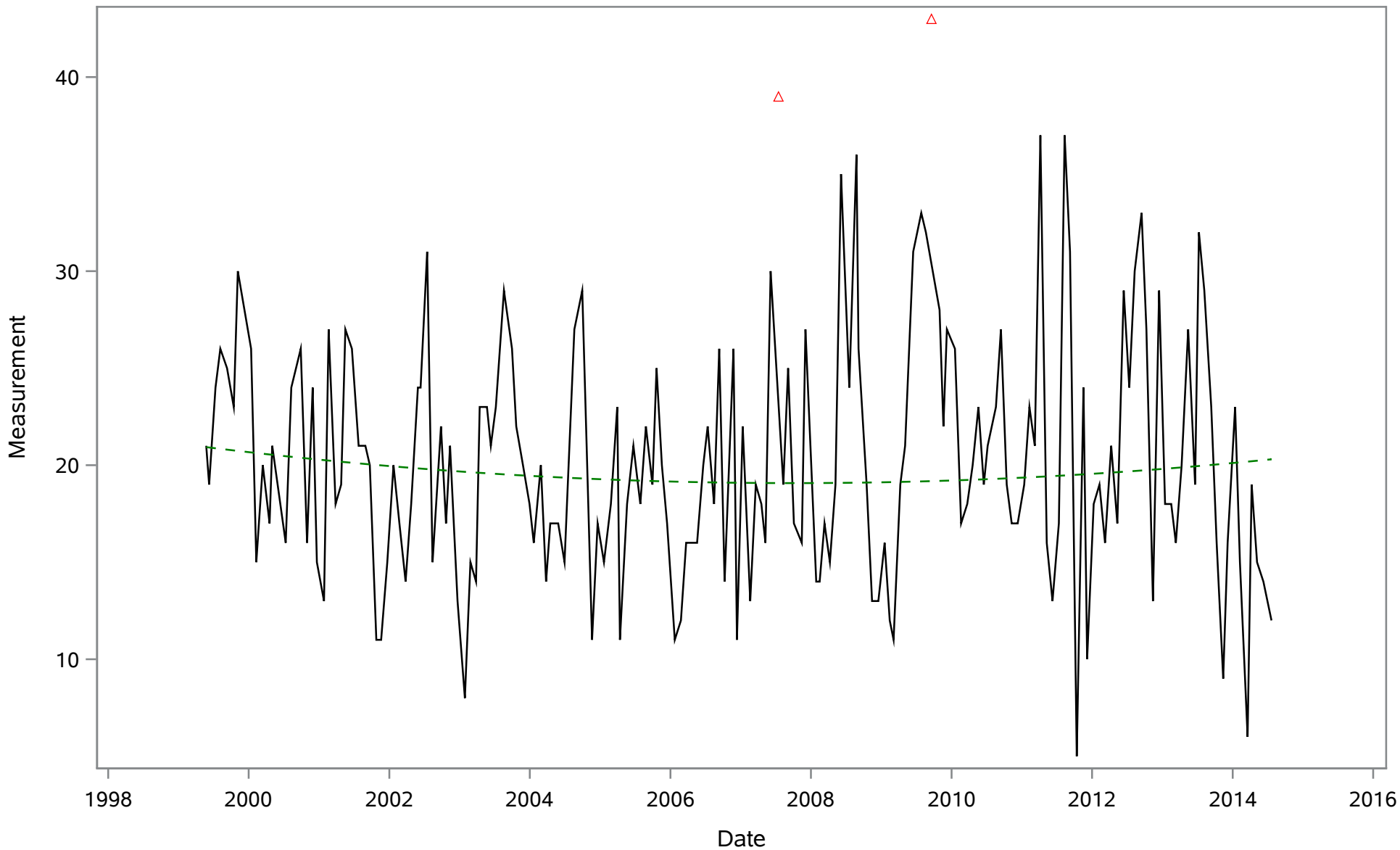


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L

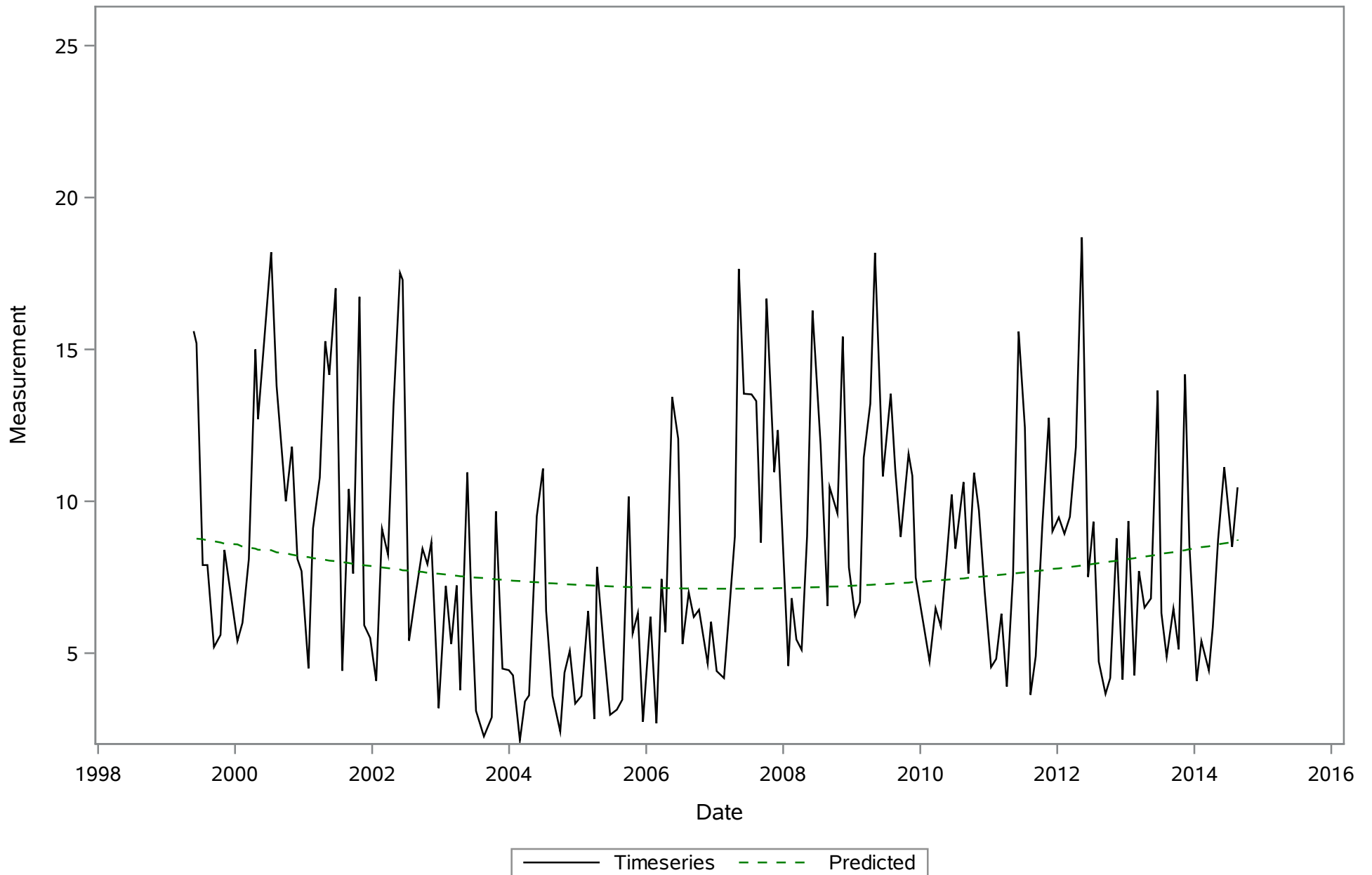


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L

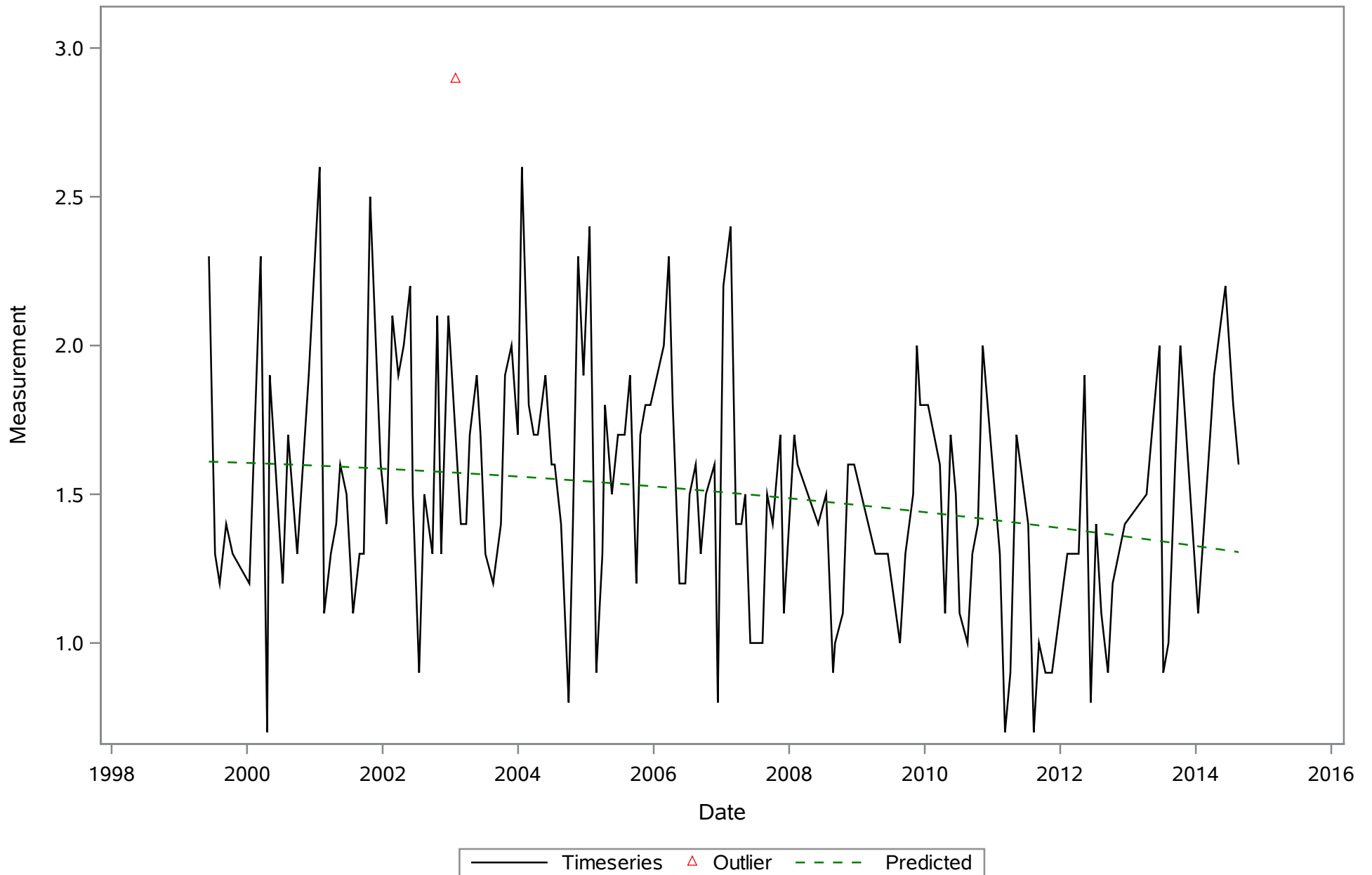


— Timeseries △ Outlier - - - Predicted

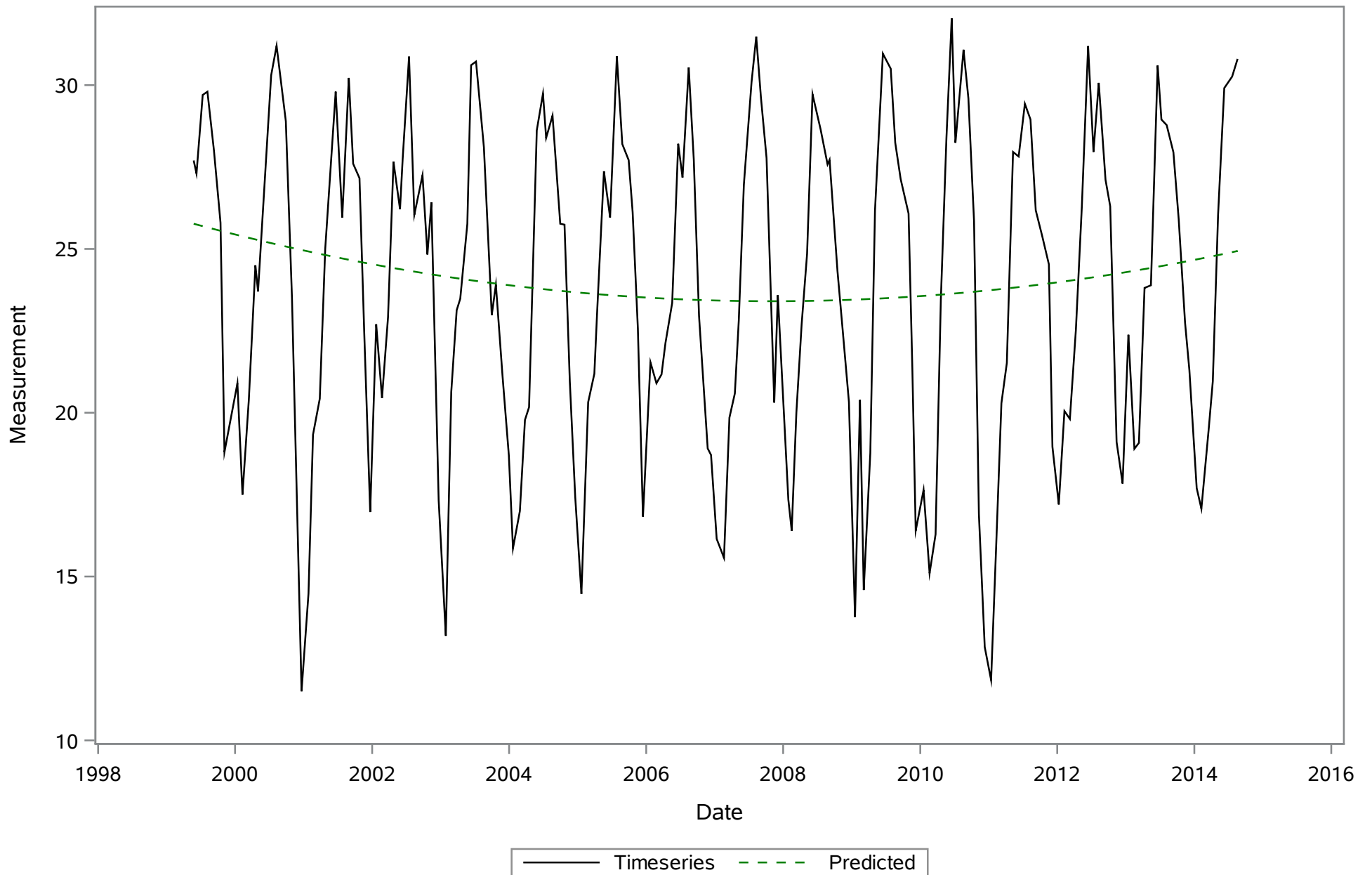
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Salinity (Total) ppt



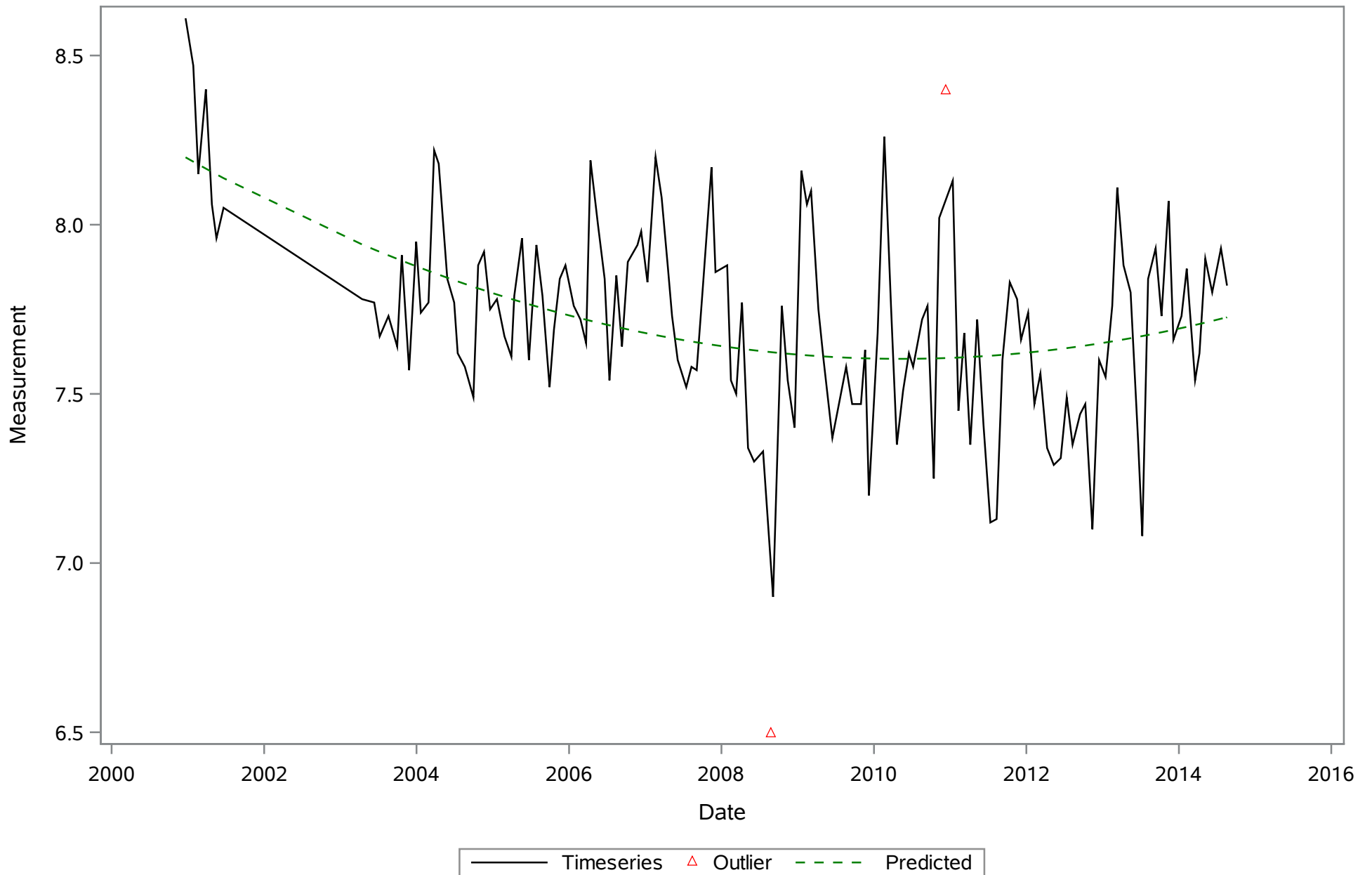
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Secchi-vertical (Total) Meters



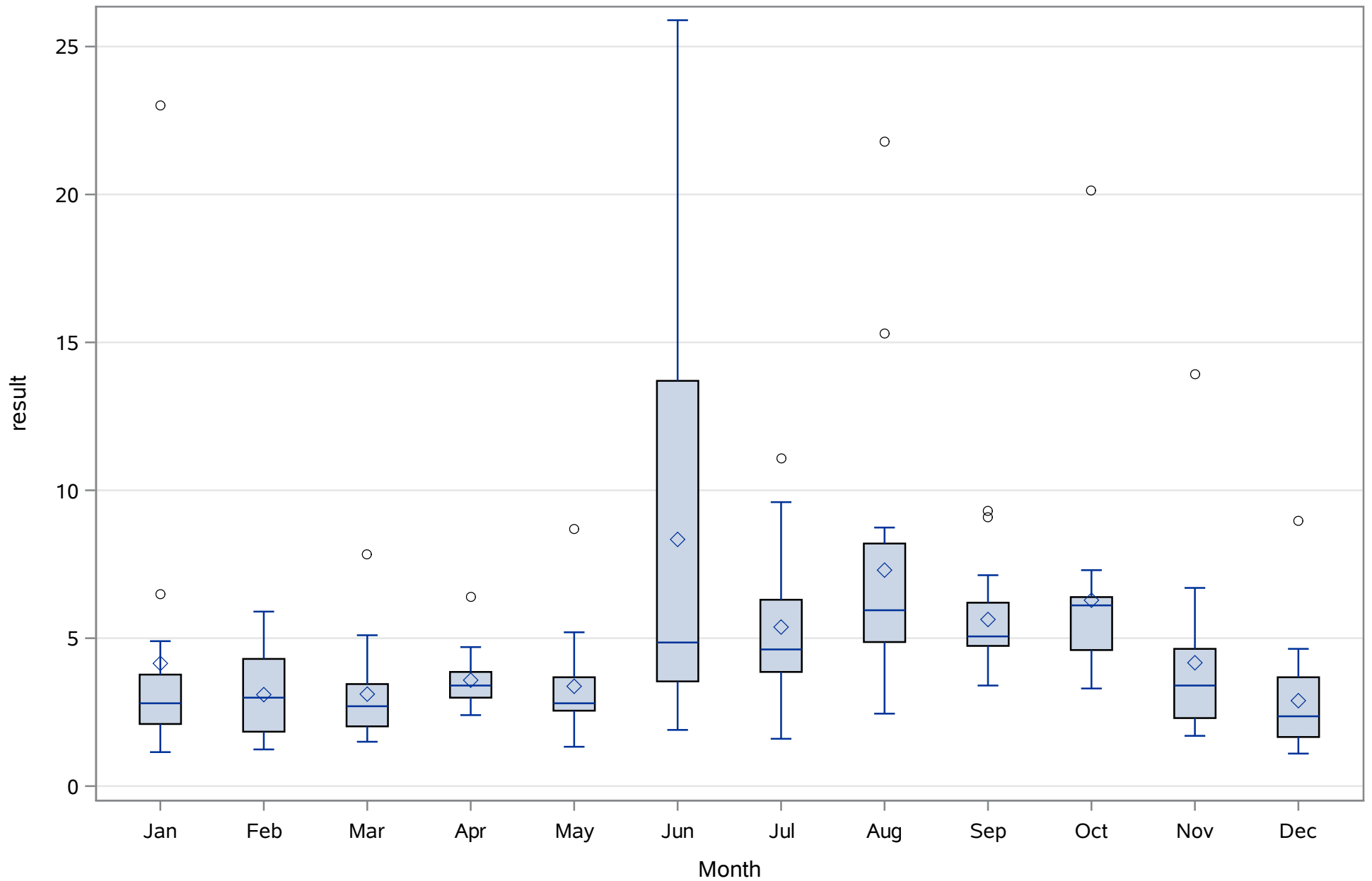
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Temperature (Total) Deg. C



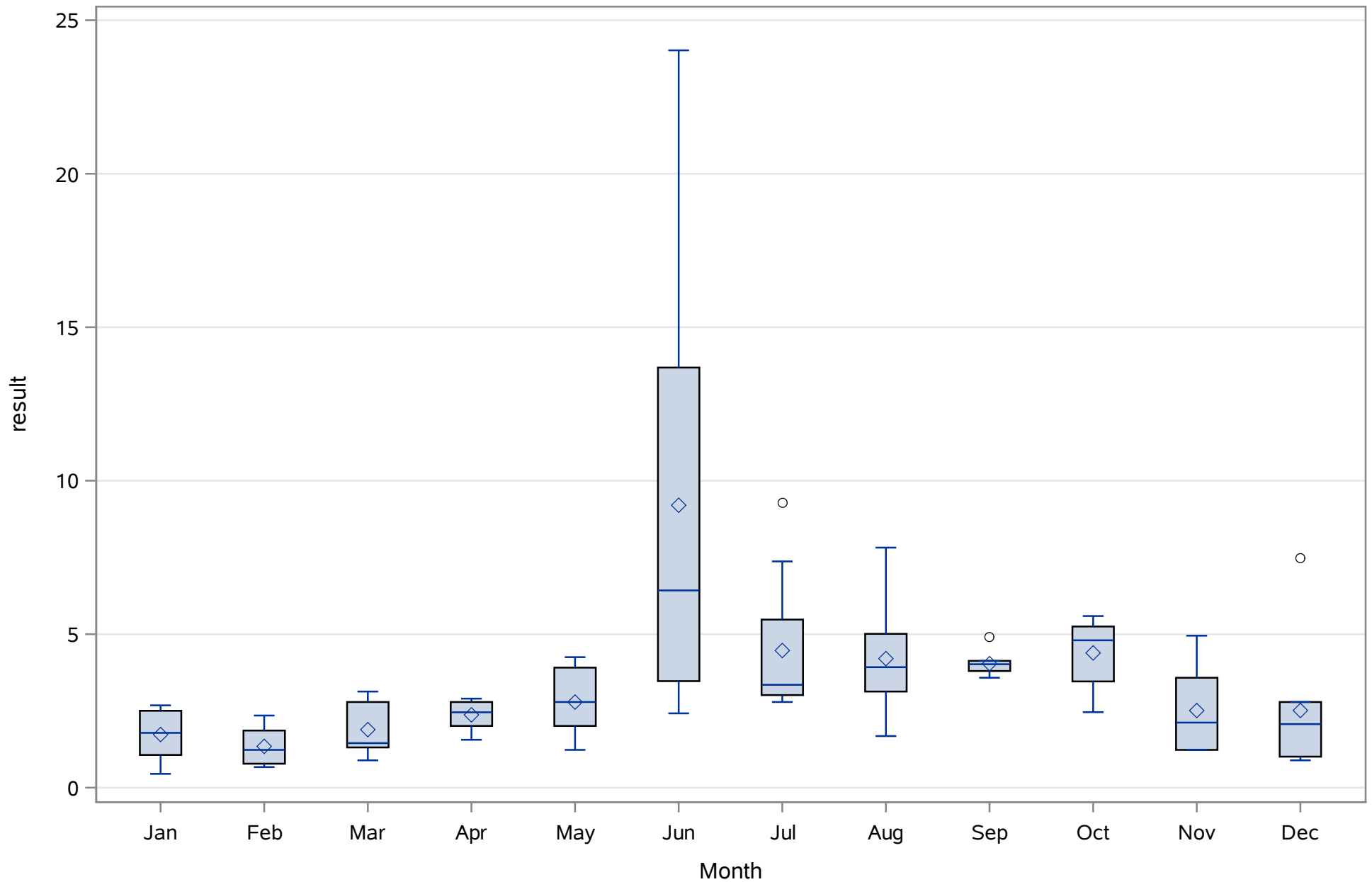
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
pH (Total) SU



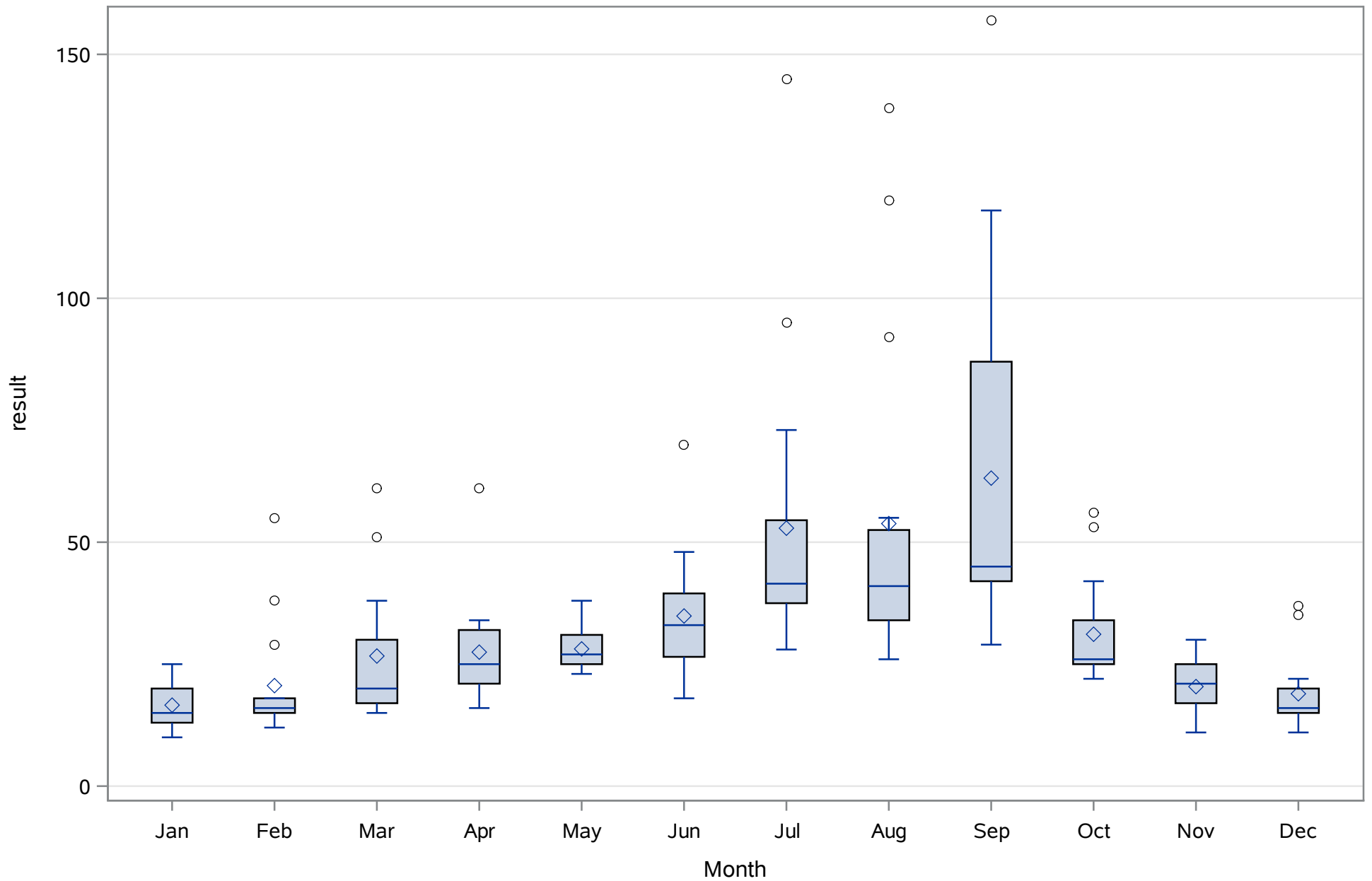
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Chlorophyll (Total) ug/L



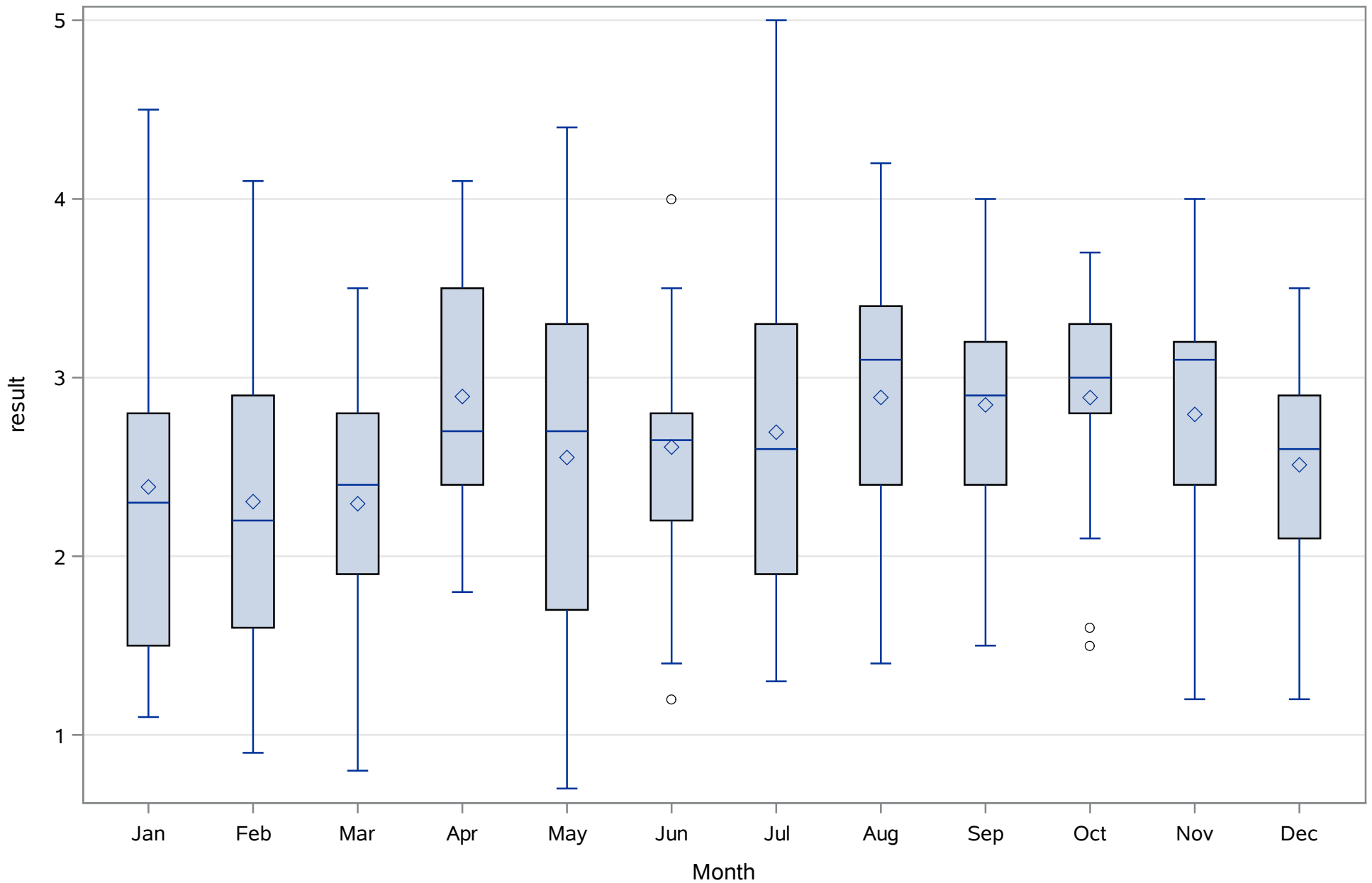
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Chlorophyll a (Total) ug/L



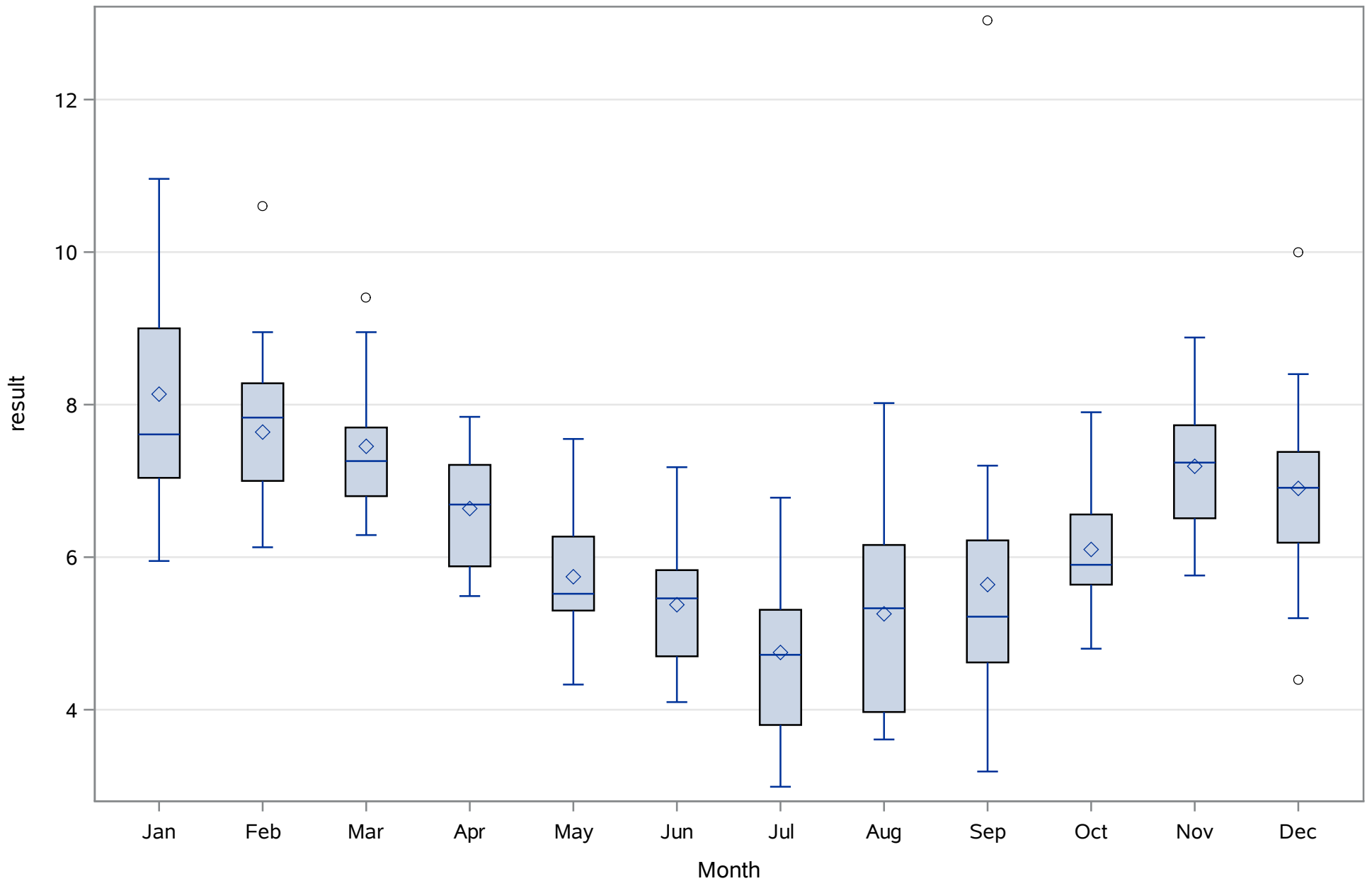
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Color (Total) PCU



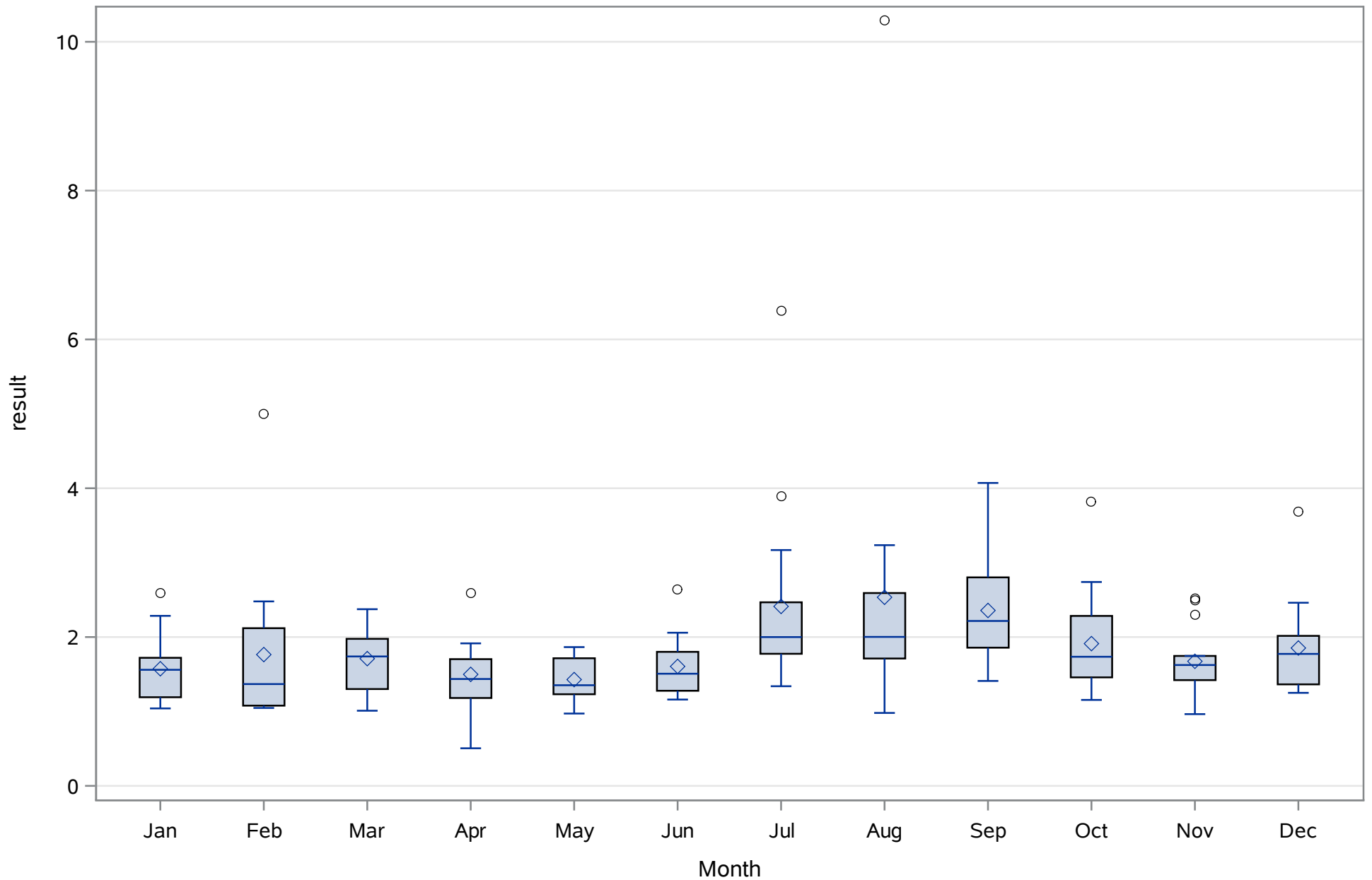
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Depth (Total) Meters



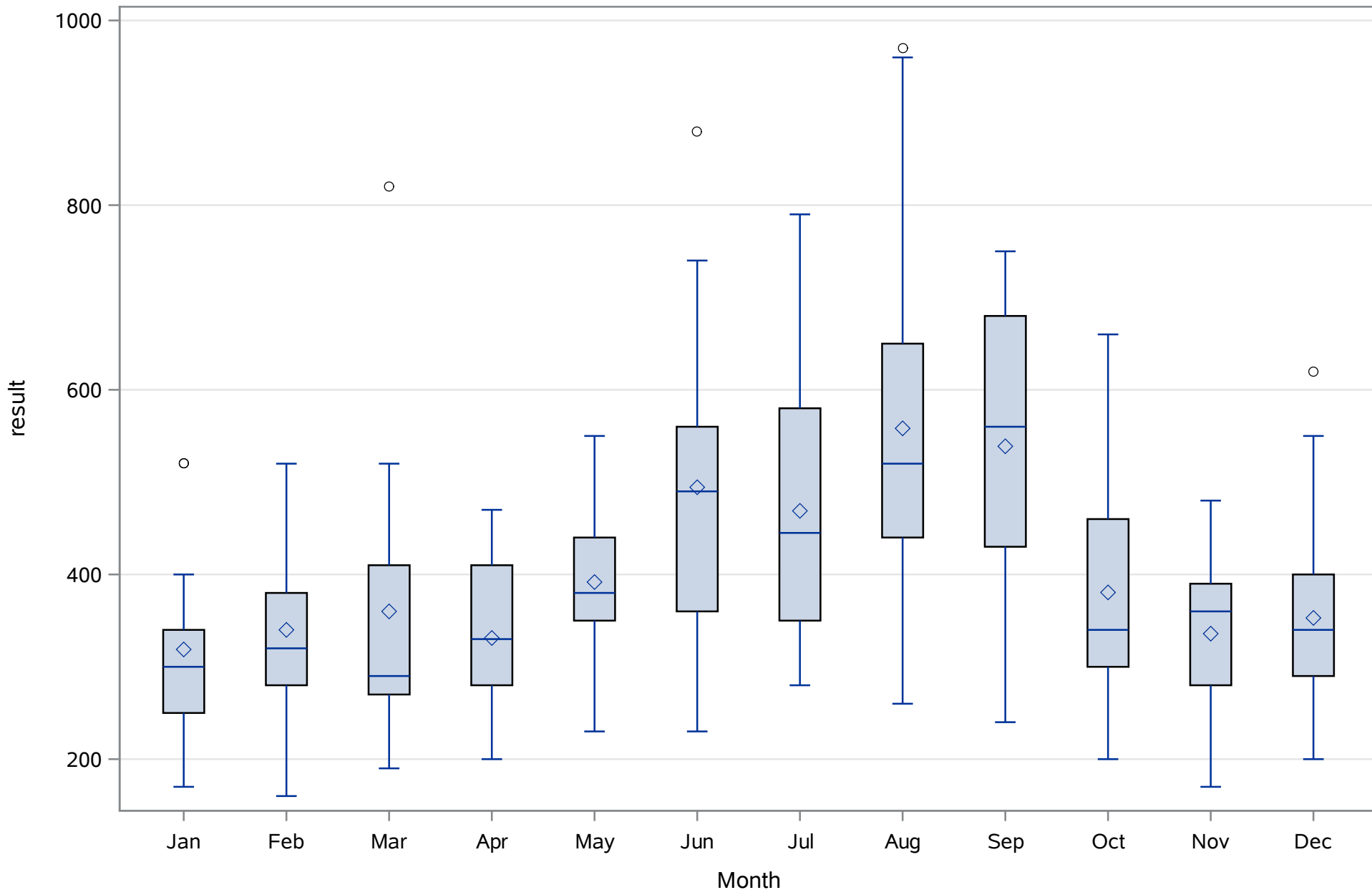
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L



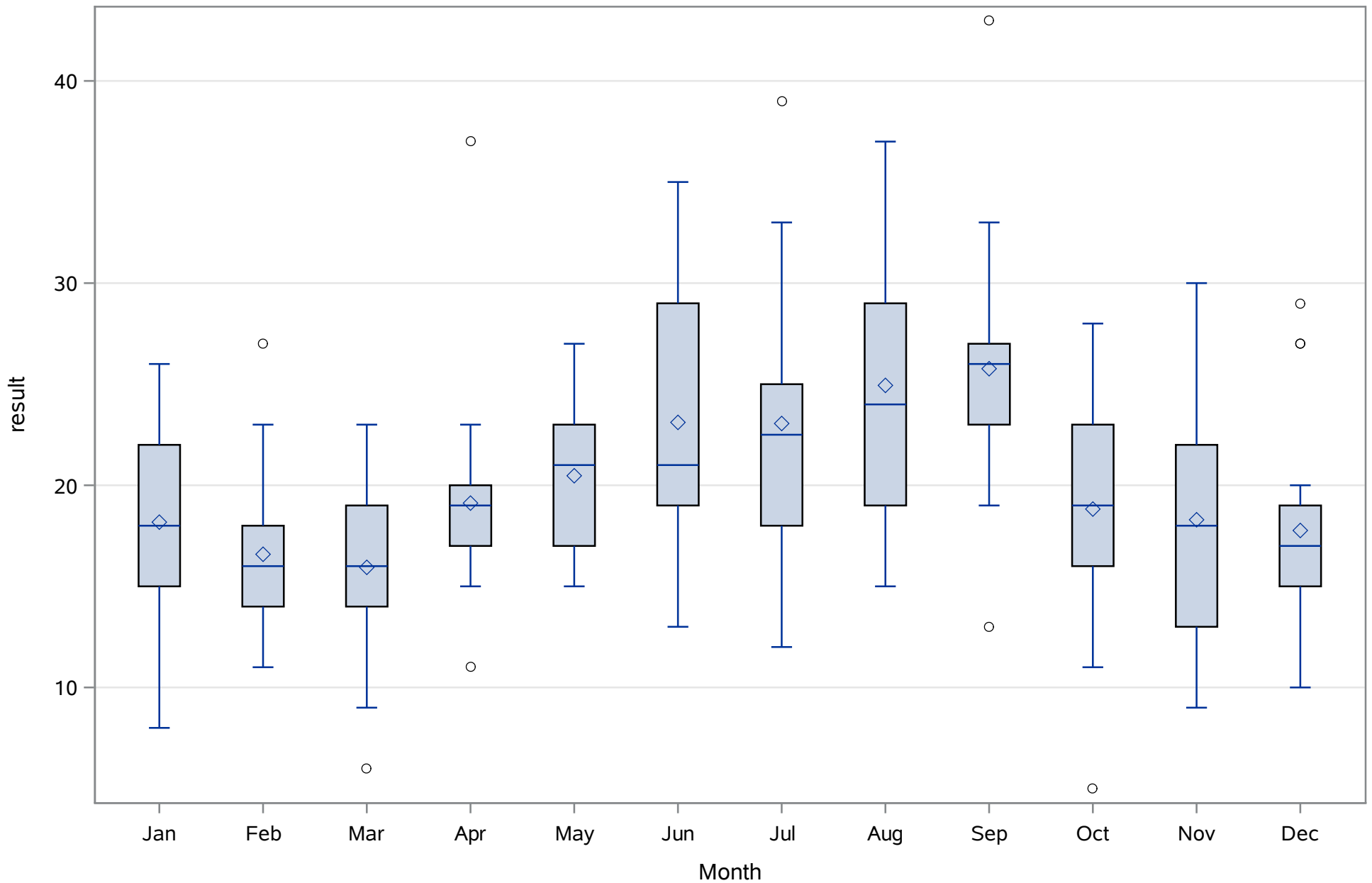
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m



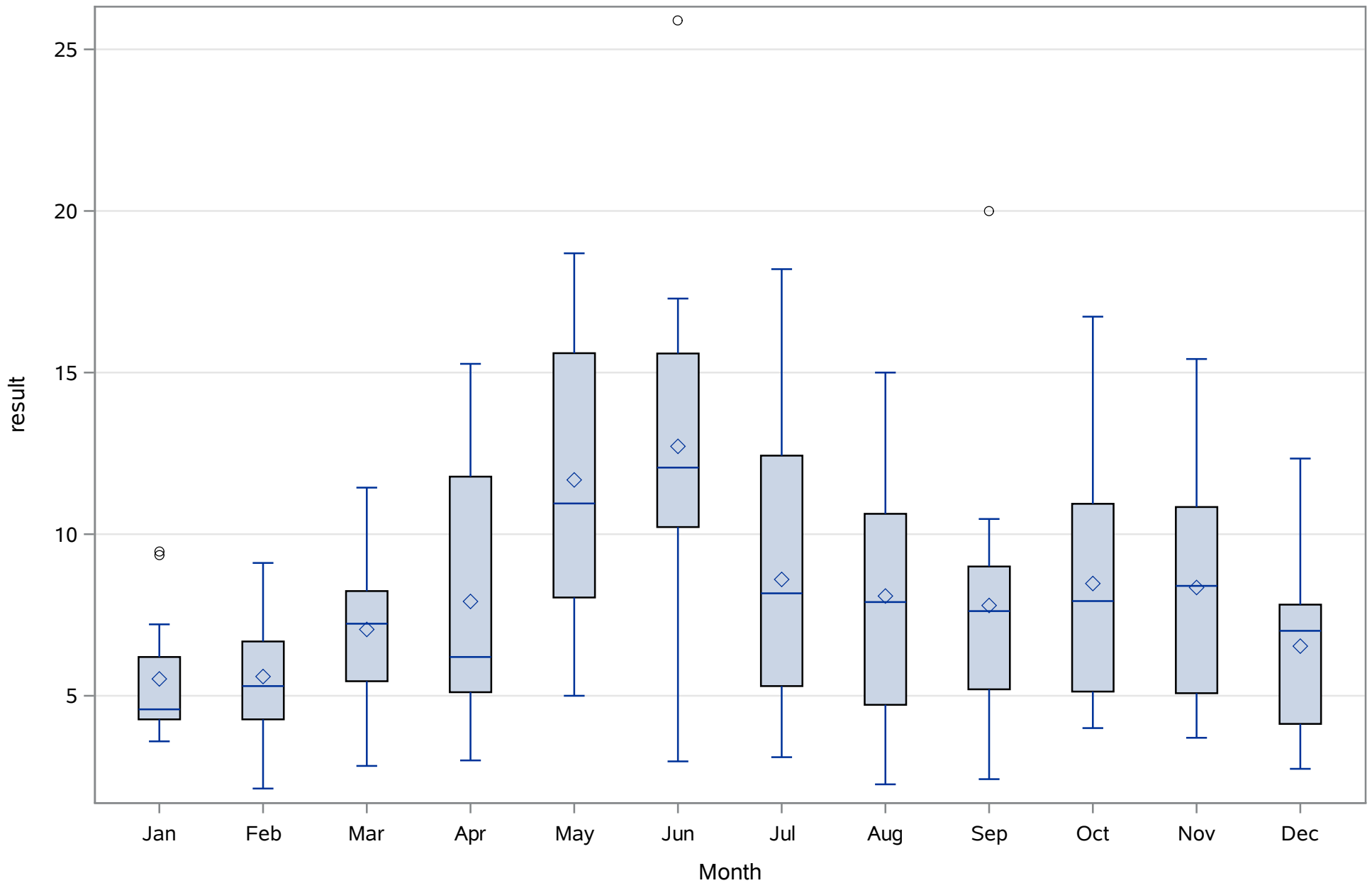
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L



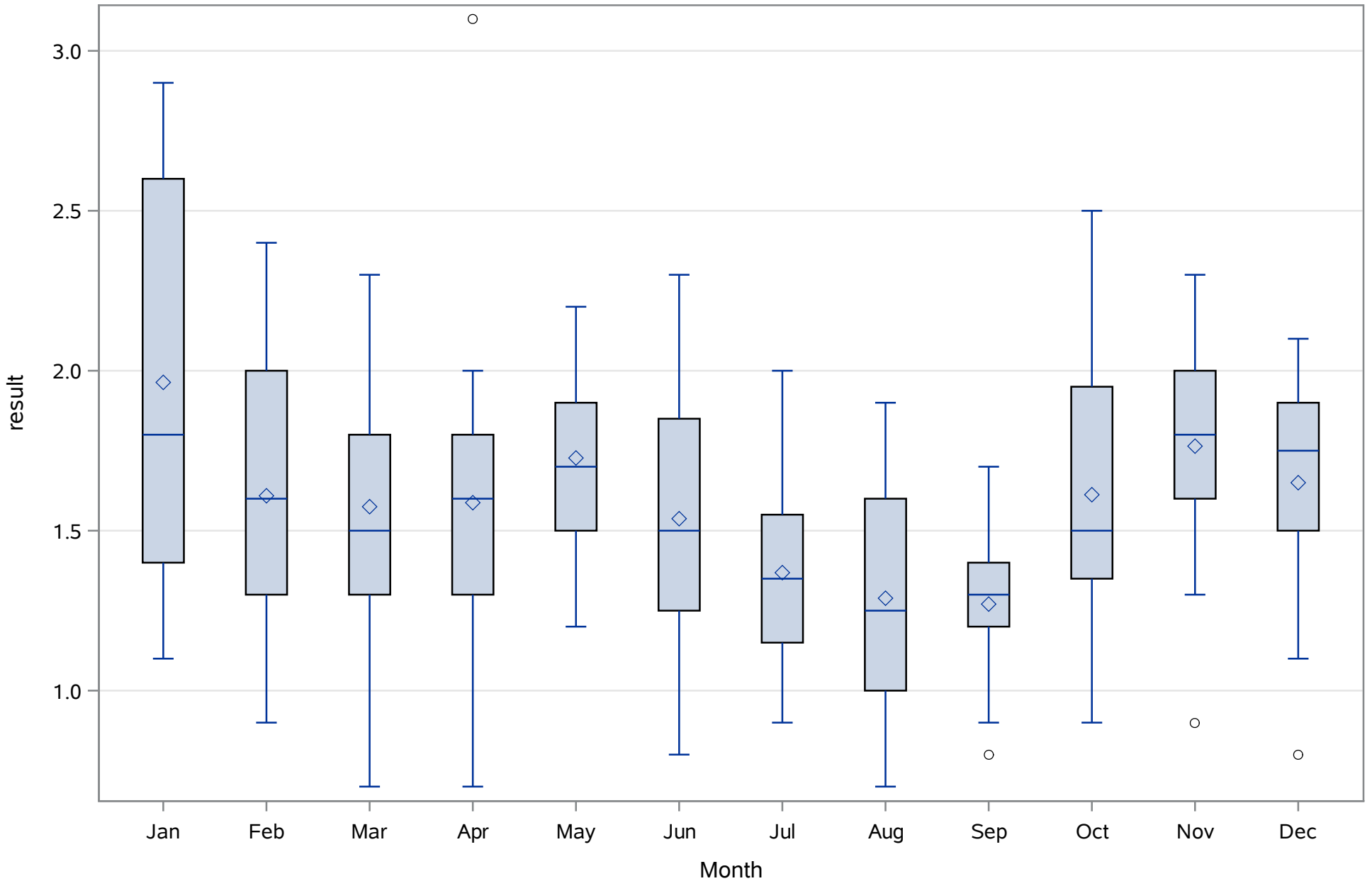
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L



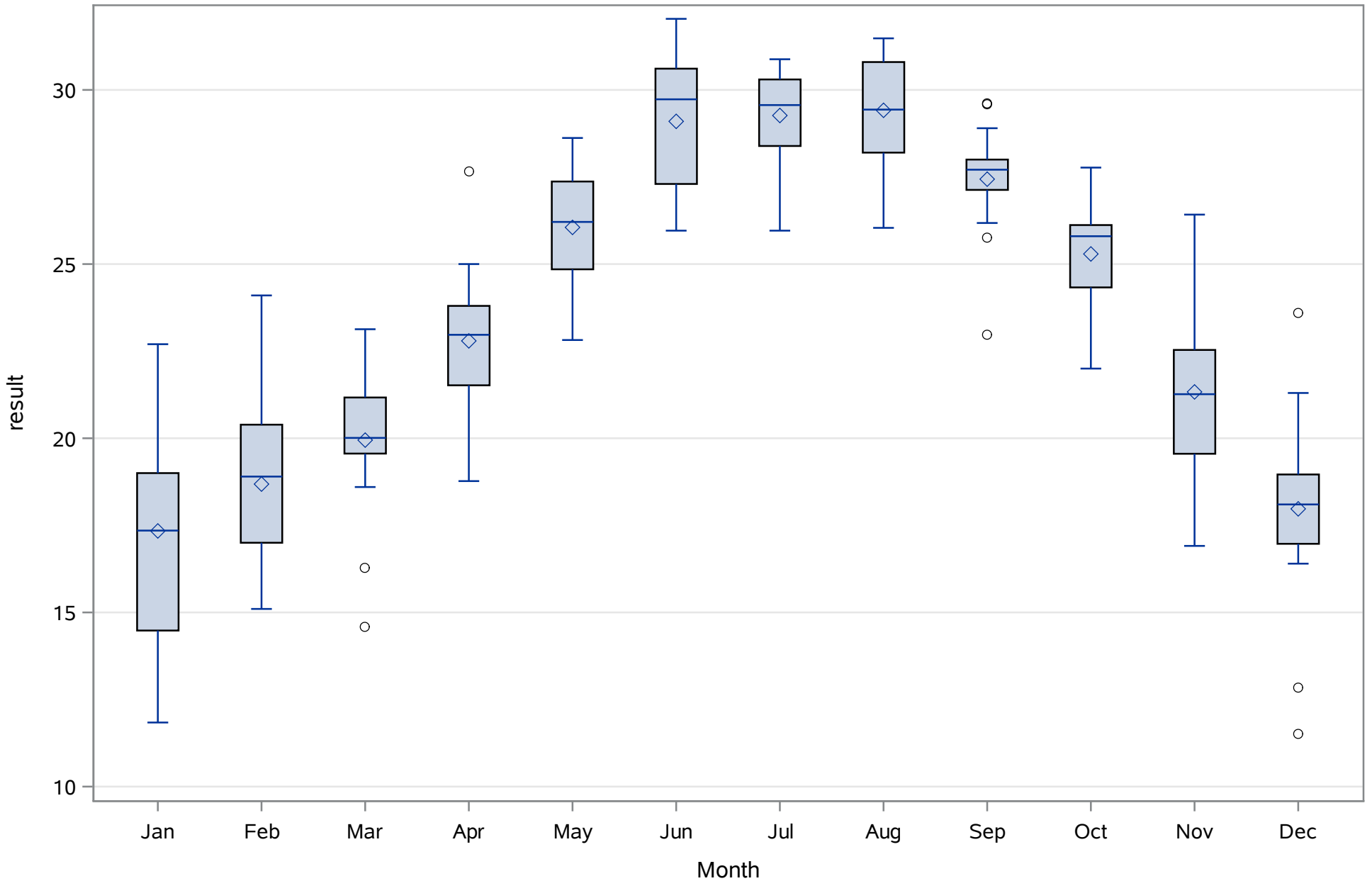
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Salinity (Total) ppth



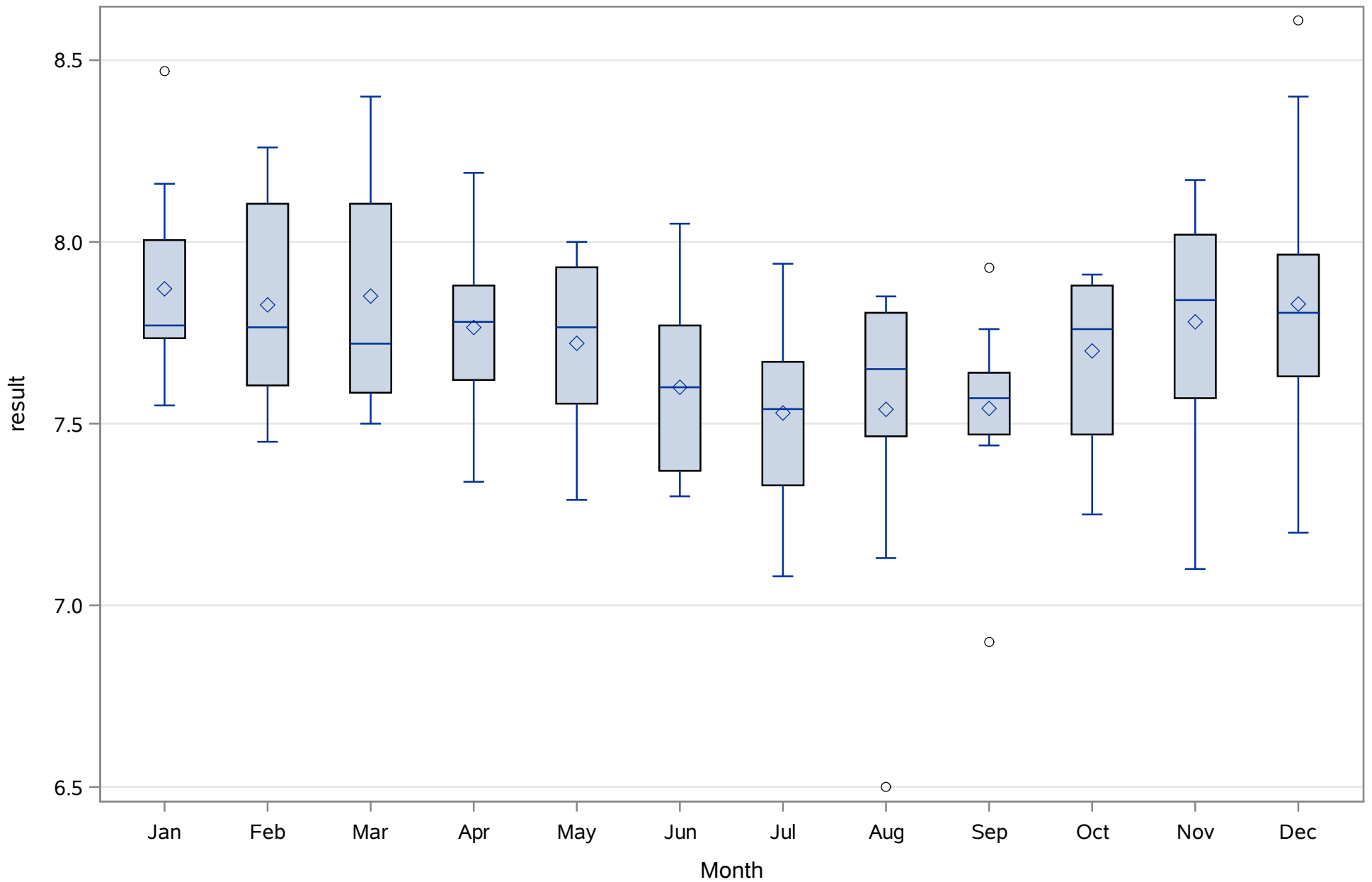
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 3
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	JUN1997	APR2017	216	4.2%	1.4%	1.9%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	3.3%	0.0%	3.3%
Color (Dissolved)	PCU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Color (Total)	PCU	MAY1999	AUG2014	184	6.5%	1.1%	2.7%
Depth (Total)	Meters	JUN1997	APR2017	217	0.0%	0.5%	0.0%
Depth, bottom (Total)	Meters	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	APR2017	215	0.0%	1.9%	0.0%
Iron (Dissolved)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	181	2.2%	1.1%	1.7%
Magnesium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	205	0.0%	1.0%	1.0%
Orthophosphate (P) (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	1.0%	1.0%	1.5%
Potassium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Salinity (Total)	ppth	JUN1997	APR2017	217	0.0%	1.8%	0.5%
Secchi-vertical (Total)	Meters	JUL1997	APR2017	142	0.0%	1.4%	0.0%
Sodium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	APR2017	216	0.0%	1.9%	0.0%
Turbidity (Total)	NTU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
pH (Total)	SU	DEC2000	APR2017	152	2.0%	1.3%	0.7%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	3.56083333	Sum Observations	769.14
Std Deviation	2.64500341	Variance	6.99604302
Skewness	3.26565003	Kurtosis	15.6711924
Uncorrected SS	4242.9286	Corrected SS	1504.14925
Coeff Variation	74.2804608	Std Error Mean	0.17996969

Basic Statistical Measures			
Location		Variability	
Mean	3.560833	Std Deviation	2.64500
Median	2.885000	Variance	6.99604
Mode	3.100000	Range	21.70000
		Interquartile Range	2.22500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.78574	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	22.500
99%	15.300
95%	9.010
90%	5.750
75% Q3	4.215
50% Median	2.885
25% Q1	1.990
10%	1.520
5%	1.300
1%	1.000
0% Min	0.800

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.8	44	10.6	12
1.0	211	13.2	101
1.0	68	15.3	16
1.0	43	15.4	76
1.1	37	22.5	13

Chassahowitzka River - Fixed Station

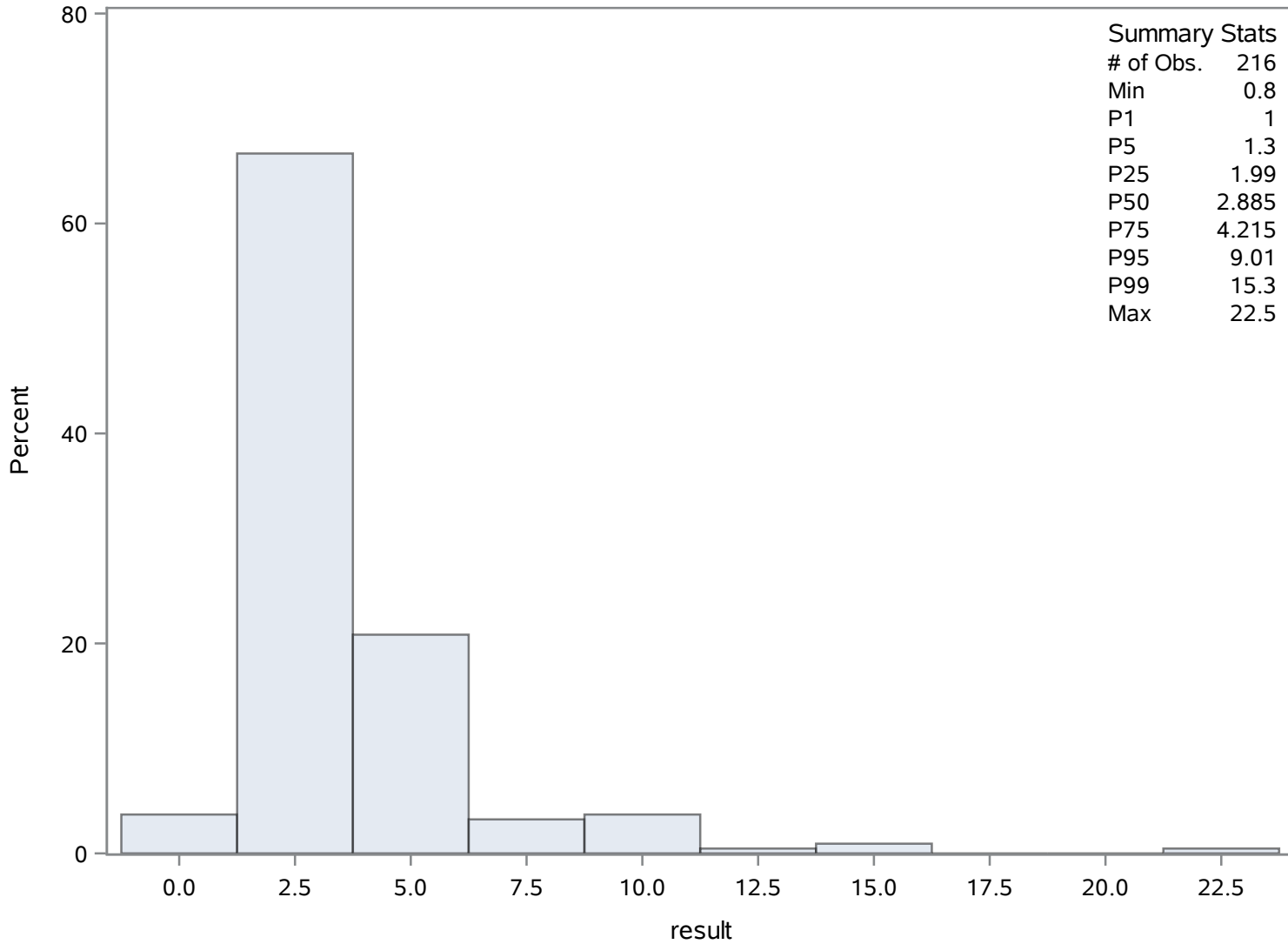
Source: COAST

Chassahowitzka Hernando 4

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	2.59802198	Sum Observations	236.42
Std Deviation	1.4256774	Variance	2.03255604
Skewness	1.61975957	Kurtosis	3.84642726
Uncorrected SS	797.1544	Corrected SS	182.930044
Coeff Variation	54.8754941	Std Error Mean	0.1494516

Basic Statistical Measures			
Location		Variability	
Mean	2.598022	Std Deviation	1.42568
Median	2.350000	Variance	2.03256
Mode	0.890000	Range	7.26000
		Interquartile Range	1.79000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.3837	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.04
99%	8.04
95%	4.69
90%	4.25
75% Q3	3.24
50% Median	2.35
25% Q1	1.45
10%	1.12
5%	0.89

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.78
0% Min	0.78

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.78	263	4.69	281
0.89	302	5.59	284
0.89	252	7.60	246
0.89	243	7.60	247
0.89	229	8.04	259

Chassahowitzka River - Fixed Station

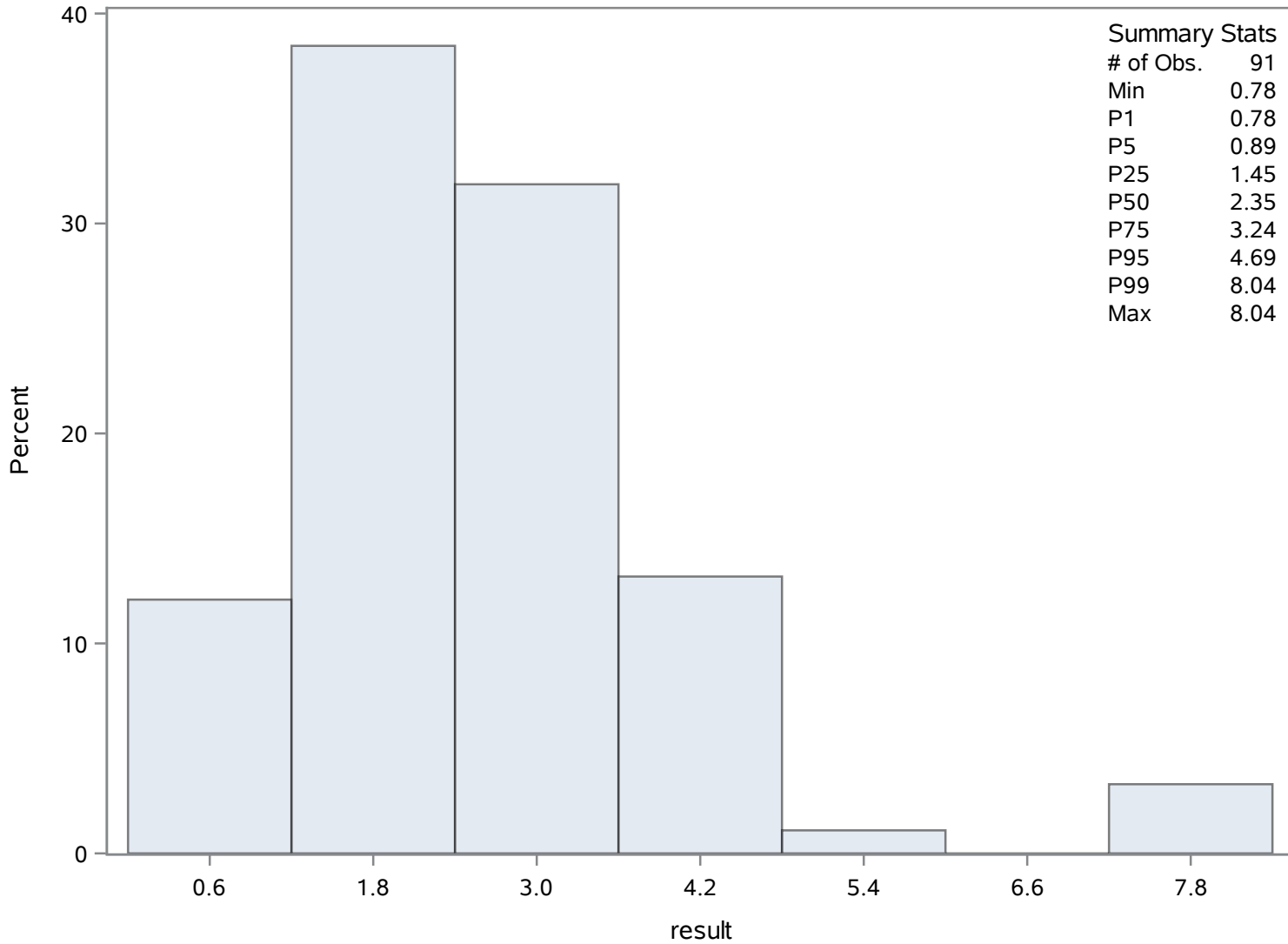
Source: COAST

Chassahowitzka Hernando 4

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	30.7336957	Sum Observations	5655
Std Deviation	17.8264173	Variance	317.781153
Skewness	2.49550763	Kurtosis	8.01201847
Uncorrected SS	231953	Corrected SS	58153.9511
Coeff Variation	58.0028432	Std Error Mean	1.31418092

Basic Statistical Measures			
Location		Variability	
Mean	30.73370	Std Deviation	17.82642
Median	26.00000	Variance	317.78115
Mode	18.00000	Range	117.00000
		Interquartile Range	16.00000

Note: The mode displayed is the smallest of 3 modes with a count of 10.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.3862	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	128
99%	111
95%	69
90%	48
75% Q3	35
50% Median	26
25% Q1	19
10%	16
5%	15

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	13
0% Min	11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11	328	86	468
13	340	92	346
13	329	95	419
14	448	111	334
14	341	128	372

Chassahowitzka River - Fixed Station

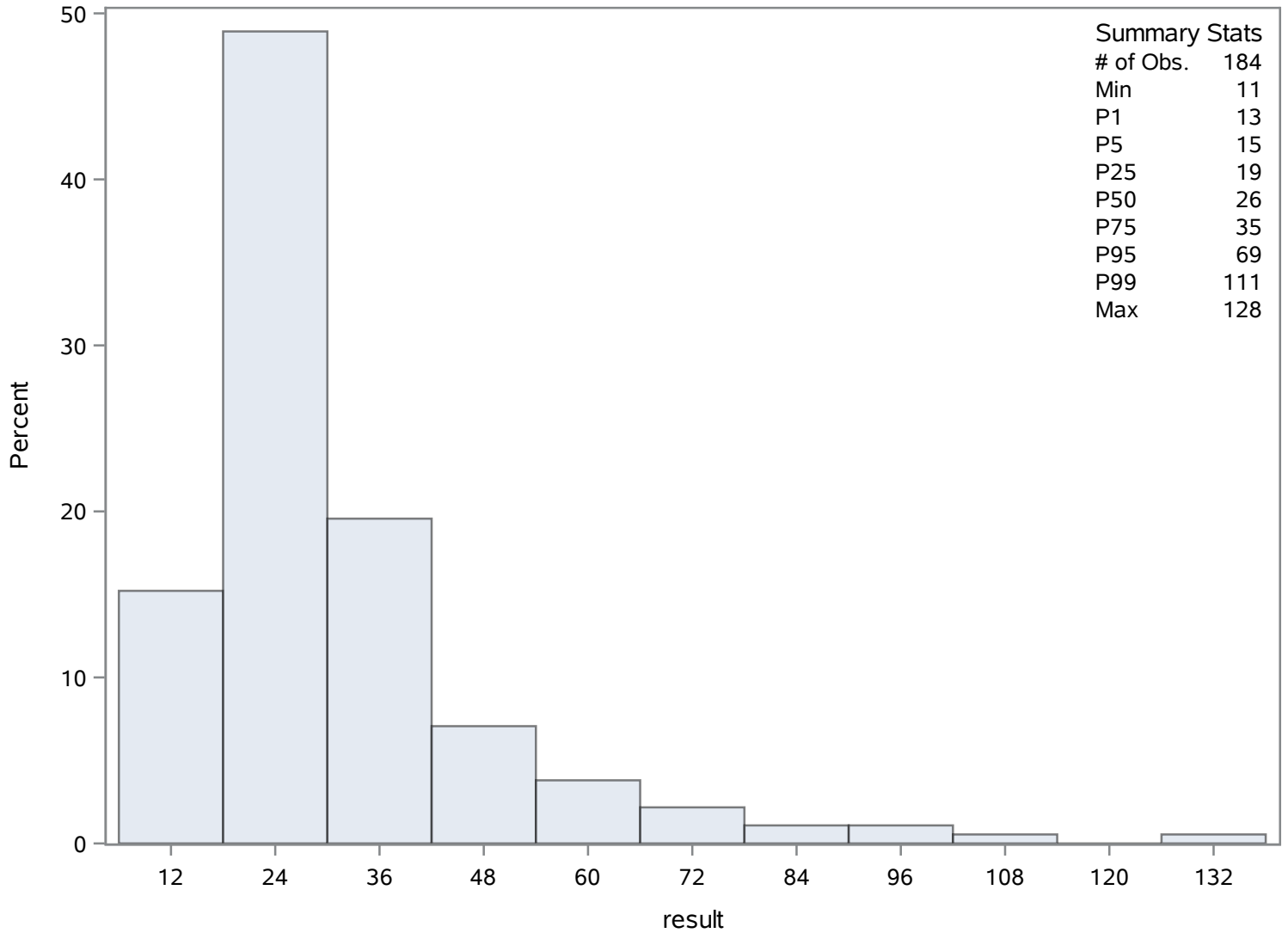
Source: COAST

Chassahowitzka Hernando 4

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	2.21336406	Sum Observations	480.3
Std Deviation	0.82963413	Variance	0.6882928
Skewness	0.02986704	Kurtosis	-0.41922
Uncorrected SS	1211.75	Corrected SS	148.671244
Coeff Variation	37.4829497	Std Error Mean	0.05631923

Basic Statistical Measures			
Location		Variability	
Mean	2.213364	Std Deviation	0.82963
Median	2.200000	Variance	0.68829
Mode	2.200000	Range	3.70000
		Interquartile Range	1.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	39.30032	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.2
99%	4.0
95%	3.7
90%	3.2
75% Q3	2.8
50% Median	2.2
25% Q1	1.6
10%	1.2
5%	0.8
1%	0.5
0% Min	0.5

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	708	3.9	572
0.5	707	4.0	505
0.5	706	4.0	544
0.5	705	4.0	559
0.5	704	4.2	635

Chassahowitzka River - Fixed Station

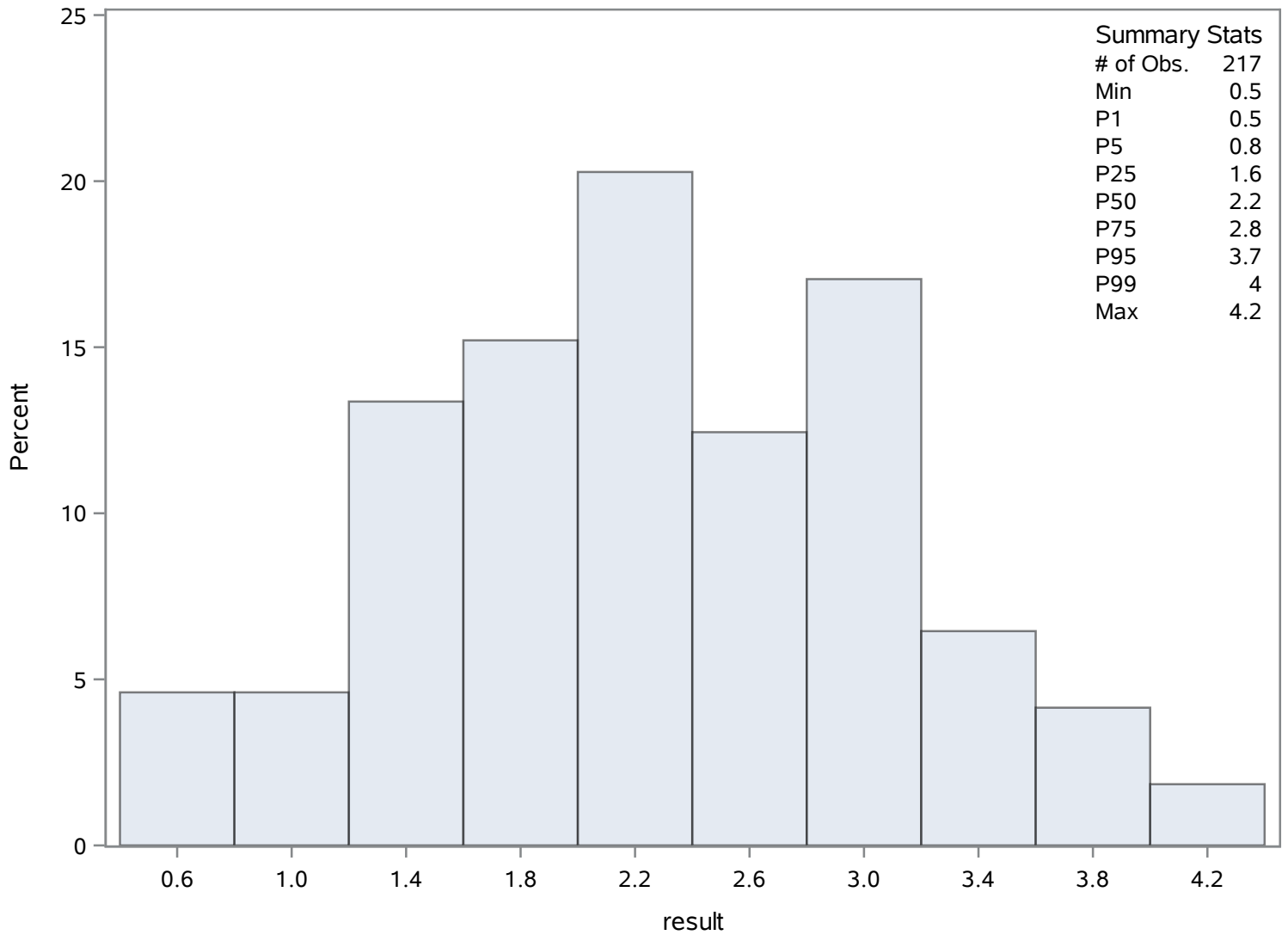
Source: COAST

Chassahowitzka Hernando 4

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	6.62339535	Sum Observations	1424.03
Std Deviation	1.66130146	Variance	2.75992253
Skewness	0.38316129	Kurtosis	-0.1322889
Uncorrected SS	10022.5371	Corrected SS	590.623421
Coeff Variation	25.0823236	Std Error Mean	0.11329982

Basic Statistical Measures			
Location		Variability	
Mean	6.623395	Std Deviation	1.66130
Median	6.530000	Variance	2.75992
Mode	4.100000	Range	7.77000
		Interquartile Range	2.02000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	58.45901	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.95
99%	10.71
95%	9.86
90%	8.96
75% Q3	7.60
50% Median	6.53
25% Q1	5.58
10%	4.46
5%	3.96

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.52
0% Min	3.18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.18	757	10.60	750
3.39	854	10.63	847
3.52	842	10.71	775
3.64	830	10.82	892
3.68	865	10.95	795

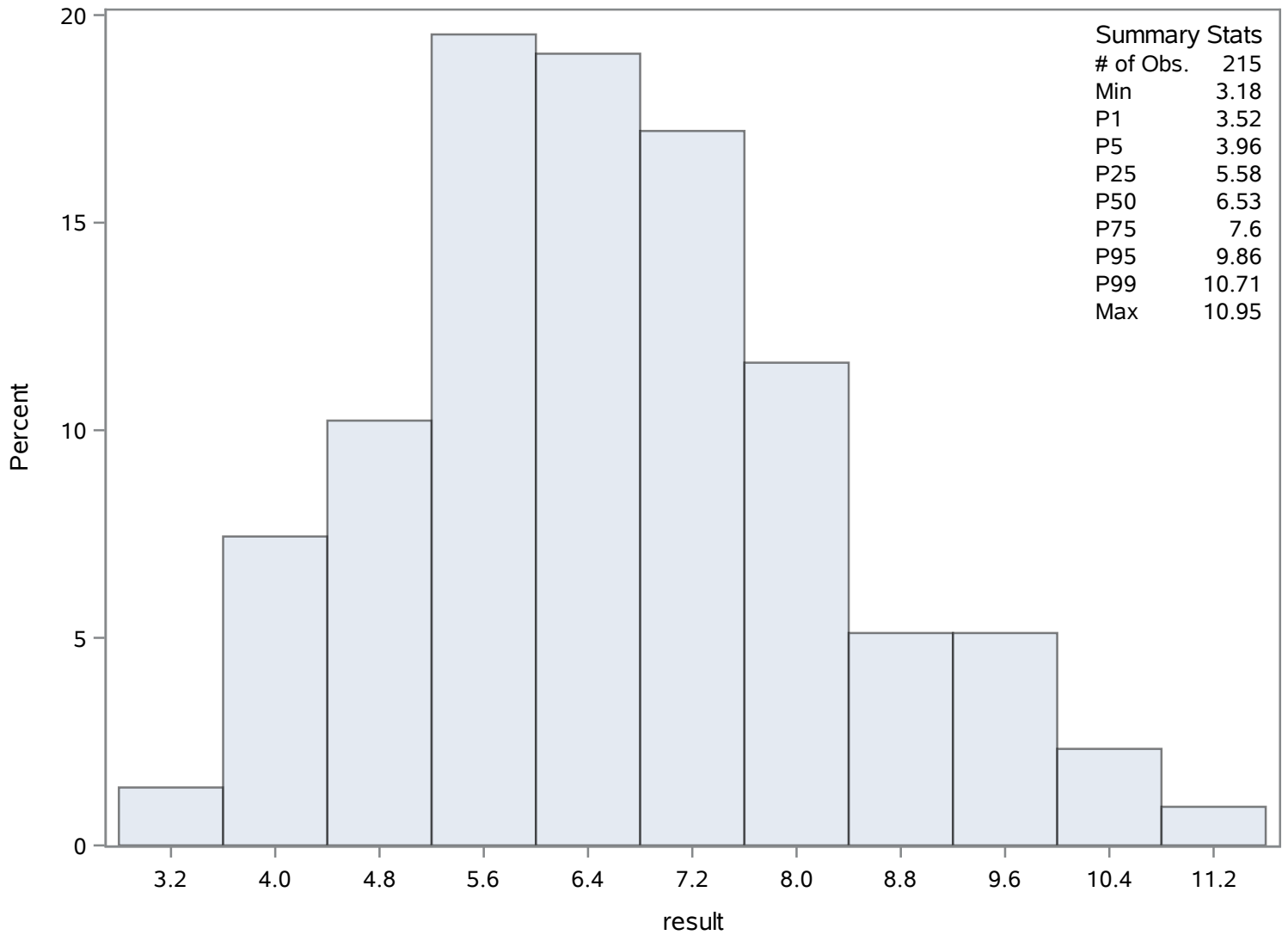
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 4 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	181	Sum Weights	181
Mean	1.71822099	Sum Observations	310.998
Std Deviation	1.07436478	Variance	1.15425968
Skewness	5.87637423	Kurtosis	43.4919593
Uncorrected SS	742.130036	Corrected SS	207.766743
Coeff Variation	62.5277415	Std Error Mean	0.07985691

Basic Statistical Measures			
Location		Variability	
Mean	1.718221	Std Deviation	1.07436
Median	1.542000	Variance	1.15426
Mode	0.902000	Range	10.38700
		Interquartile Range	0.64500

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.51625	Pr > t 	<.0001
Sign	M	90.5	Pr >= M 	<.0001
Signed Rank	S	8235.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.166
99%	8.221
95%	2.668
90%	2.323
75% Q3	1.894
50% Median	1.542
25% Q1	1.249
10%	1.051
5%	0.908

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

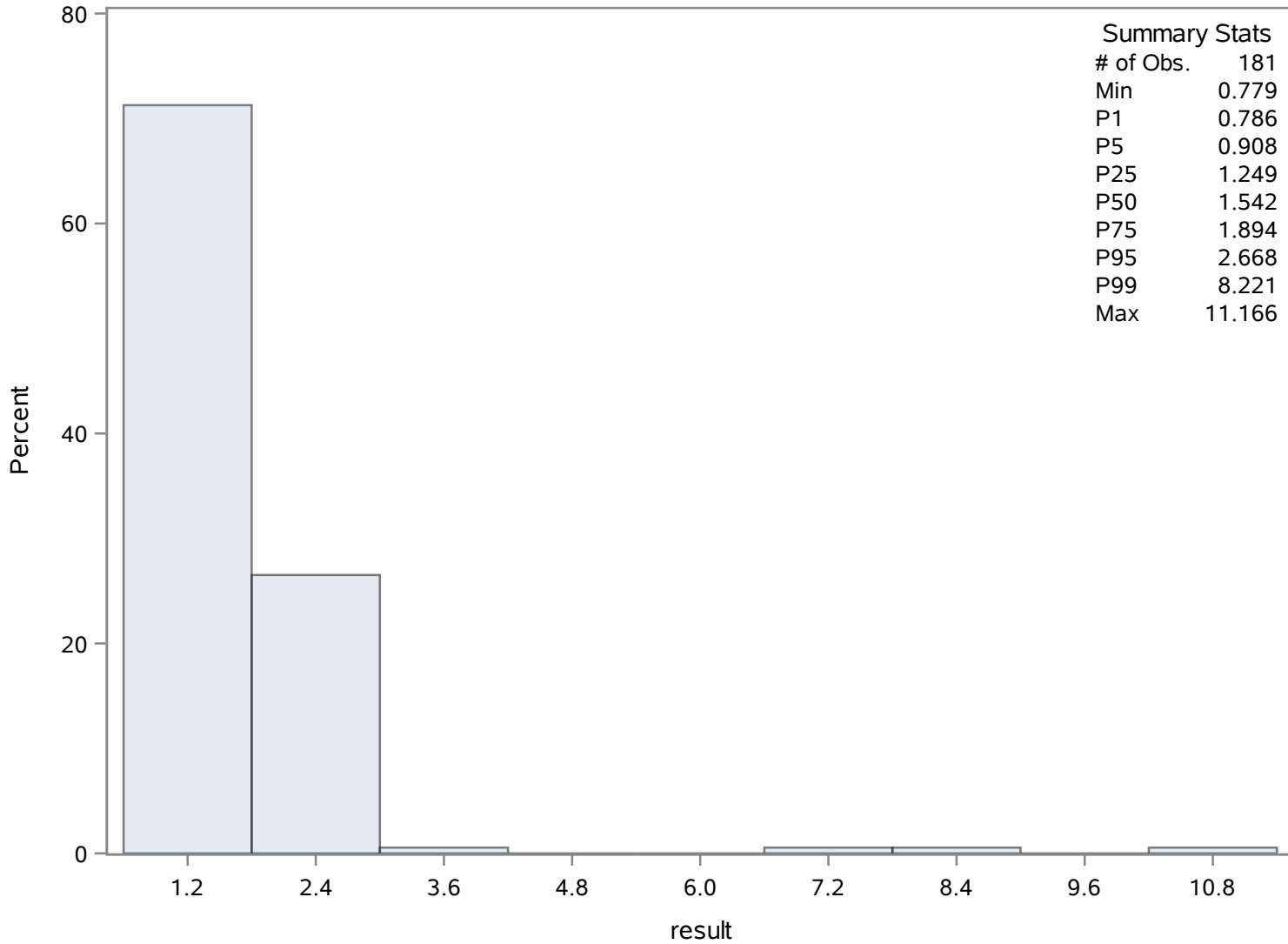
Quantiles (Definition 5)	
Level	Quantile
1%	0.786
0% Min	0.779

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.779	929	2.850	1044
0.786	1004	3.293	985
0.788	932	7.357	971
0.819	1038	8.221	954
0.831	931	11.166	972

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.37222222	Sum Observations	3.35
Std Deviation	0.07806692	Variance	0.00609444
Skewness	-0.5205881	Kurtosis	-1.4838724
Uncorrected SS	1.2957	Corrected SS	0.04875556
Coeff Variation	20.9732032	Std Error Mean	0.02602231

Basic Statistical Measures			
Location		Variability	
Mean	0.372222	Std Deviation	0.07807
Median	0.380000	Variance	0.00609
Mode	0.450000	Range	0.20000
		Interquartile Range	0.14000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.30397	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.45
99%	0.45
95%	0.45
90%	0.45
75% Q3	0.44
50% Median	0.38
25% Q1	0.30
10%	0.25
5%	0.25
1%	0.25
0% Min	0.25

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.25	1112	0.38	1106
0.28	1113	0.43	1107
0.30	1108	0.44	1105
0.37	1109	0.45	1110
0.38	1106	0.45	1111

Chassahowitzka River - Fixed Station

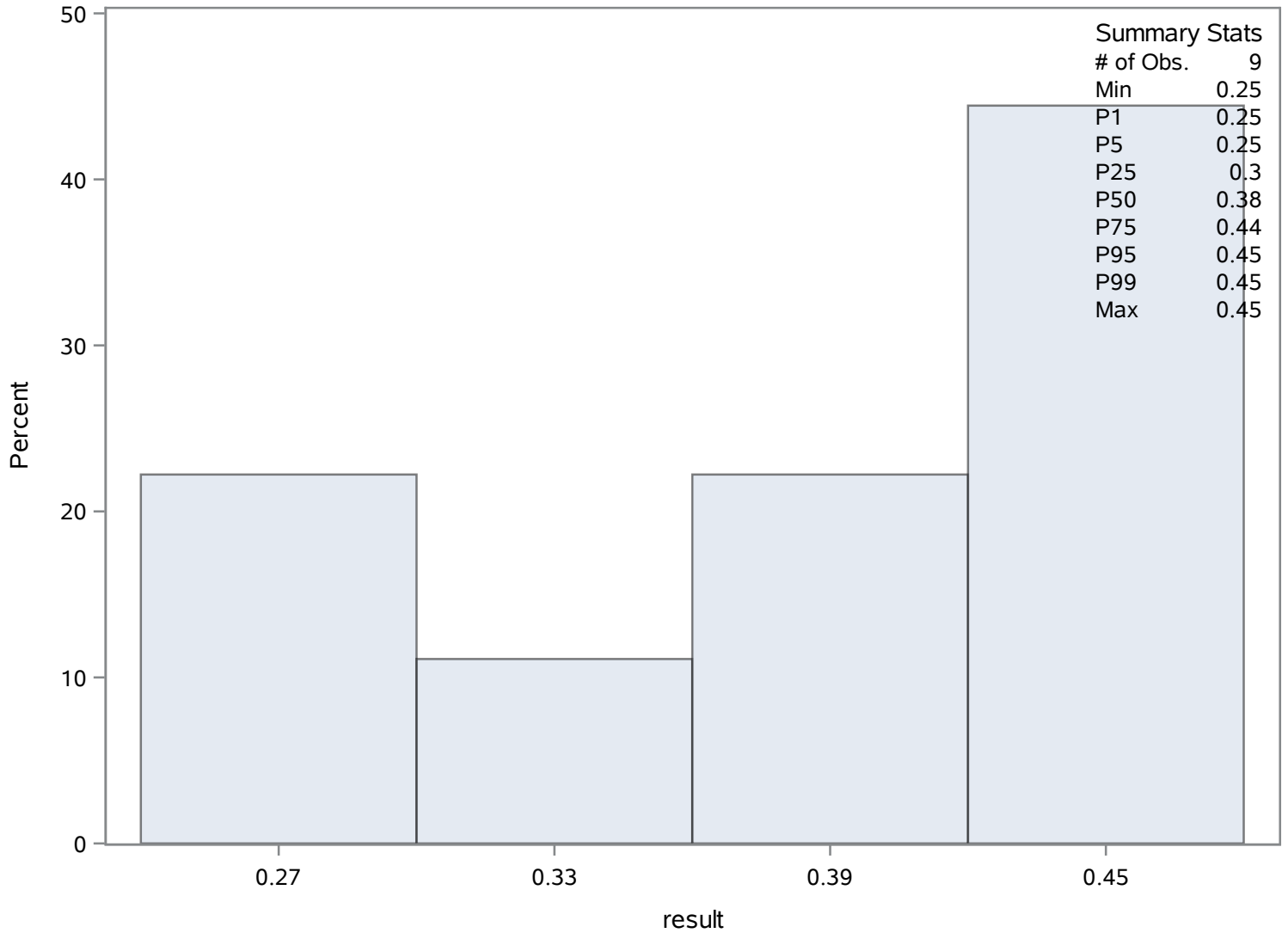
Source: COAST

Chassahowitzka Hernando 4

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	410.878049	Sum Observations	84230
Std Deviation	161.579853	Variance	26108.0488
Skewness	1.08064342	Kurtosis	2.41869951
Uncorrected SS	39934300	Corrected SS	5326041.95
Coeff Variation	39.3255014	Std Error Mean	11.2852264

Basic Statistical Measures			
Location		Variability	
Mean	410.8780	Std Deviation	161.57985
Median	390.0000	Variance	26108
Mode	360.0000	Range	1040
		Interquartile Range	210.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	36.40849	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1190
99%	870
95%	680
90%	630
75% Q3	500
50% Median	390
25% Q1	290
10%	210
5%	200
1%	170
0% Min	150

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
150	1302	740	1235
160	1195	770	1129
170	1313	870	1247
170	1310	1000	1127
190	1288	1190	1126

Chassahowitzka River - Fixed Station

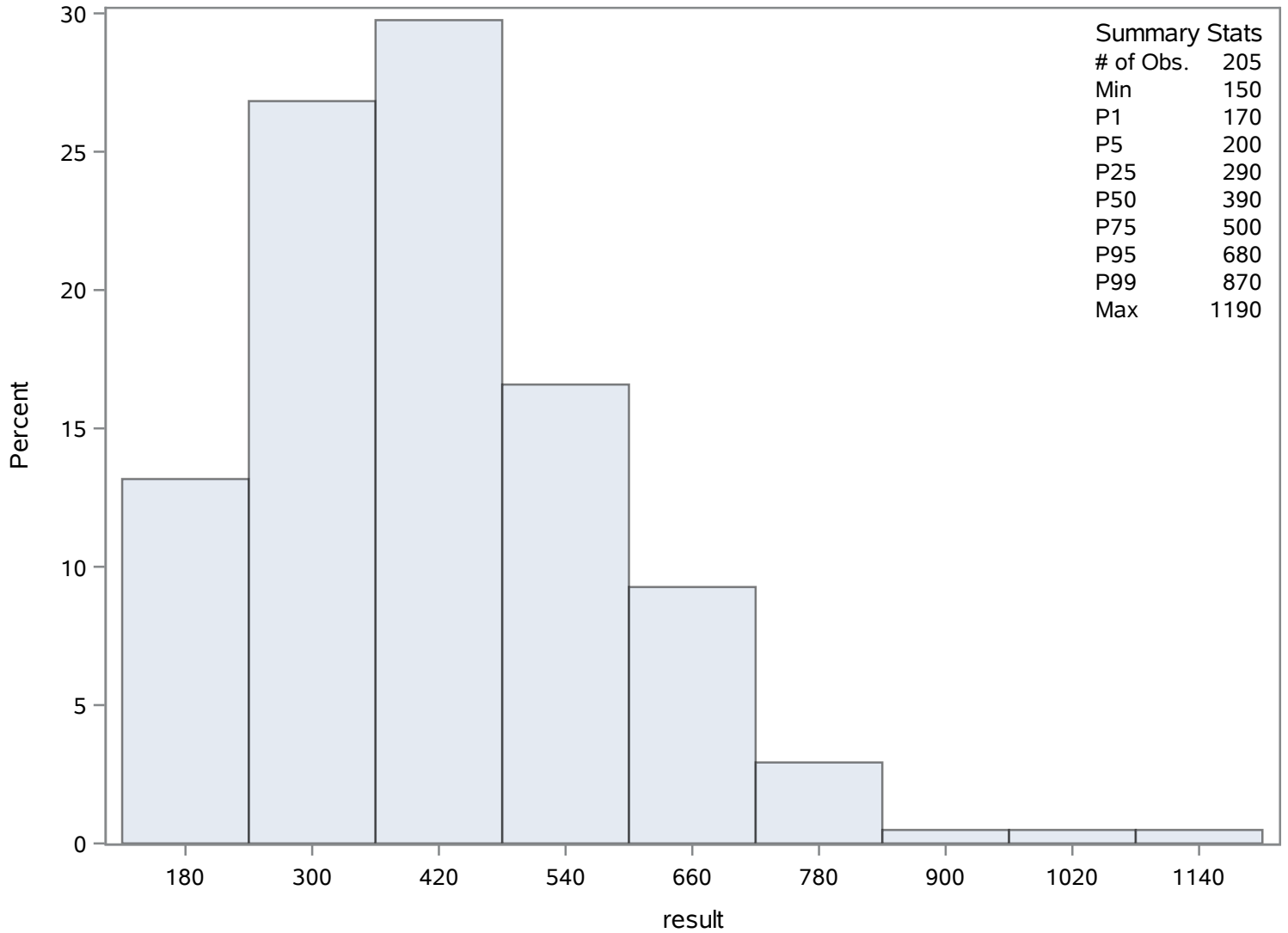
Source: COAST

Chassahowitzka Hernando 4

Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.01755556	Sum Observations	0.158
Std Deviation	0.00515051	Variance	0.00002653
Skewness	0.32200469	Kurtosis	-1.1804846
Uncorrected SS	0.002986	Corrected SS	0.00021222
Coeff Variation	29.3383617	Std Error Mean	0.00171684

Basic Statistical Measures			
Location		Variability	
Mean	0.017556	Std Deviation	0.00515
Median	0.016000	Variance	0.0000265
Mode	0.022000	Range	0.01500
		Interquartile Range	0.00800

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.22552	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.026
99%	0.026
95%	0.026
90%	0.026
75% Q3	0.022
50% Median	0.016
25% Q1	0.014
10%	0.011
5%	0.011
1%	0.011
0% Min	0.011

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.011	1327	0.016	1324
0.012	1326	0.020	1319
0.014	1323	0.022	1320
0.015	1322	0.022	1321
0.016	1324	0.026	1325

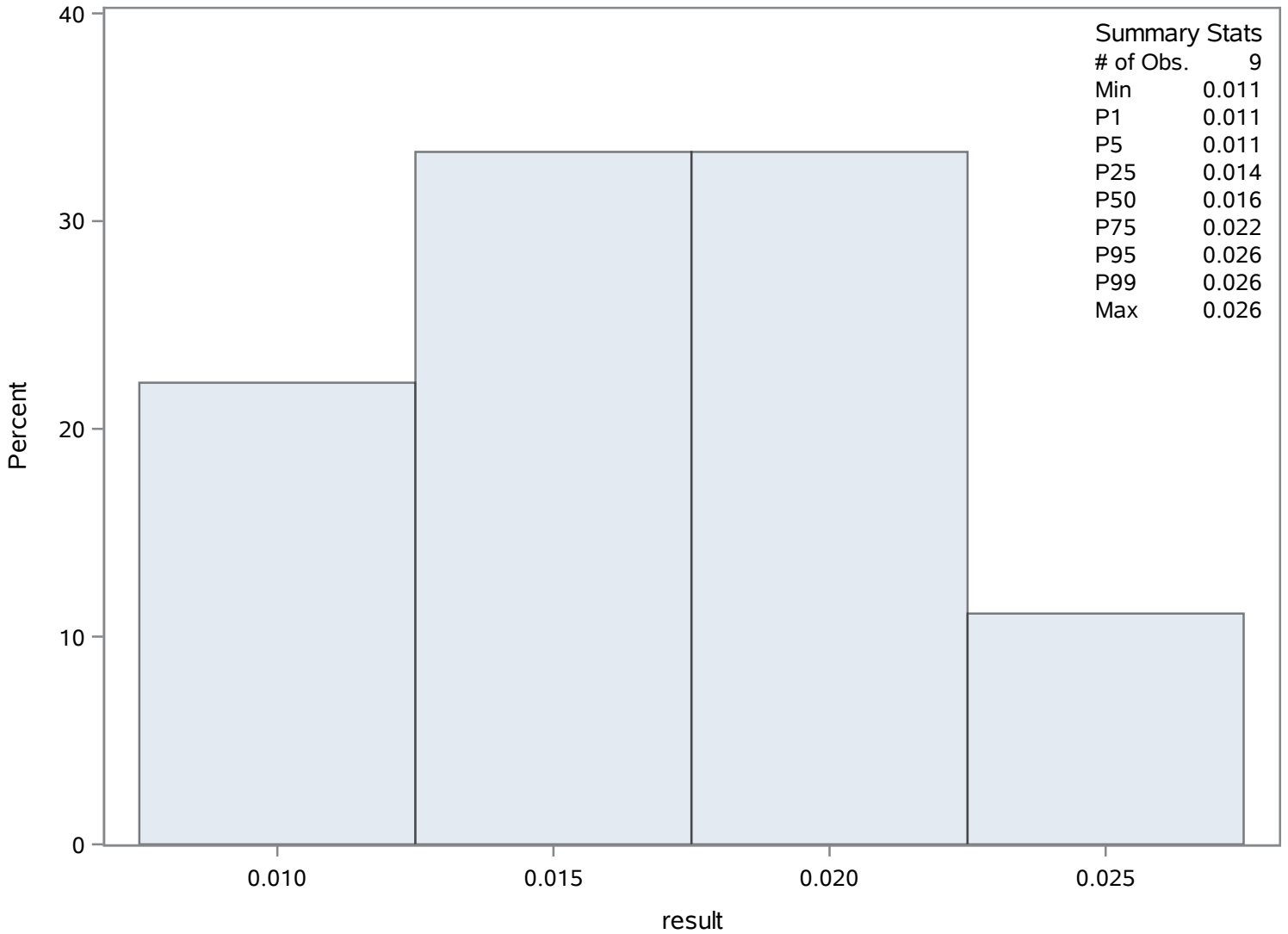
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 4 Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	16.3834951	Sum Observations	3375
Std Deviation	5.97421446	Variance	35.6912385
Skewness	0.92553097	Kurtosis	1.36804884
Uncorrected SS	62611	Corrected SS	7316.70388
Coeff Variation	36.4648349	Std Error Mean	0.41624325

Basic Statistical Measures			
Location		Variability	
Mean	16.38350	Std Deviation	5.97421
Median	15.00000	Variance	35.69124
Mode	10.00000	Range	35.00000
		Interquartile Range	8.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	39.36039	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	39
99%	36
95%	27
90%	24
75% Q3	20
50% Median	15
25% Q1	12
10%	10
5%	9
1%	5
0% Min	4

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	1529	31	1474
4	1500	32	1339
5	1442	36	1389
7	1349	38	1475
8	1525	39	1340

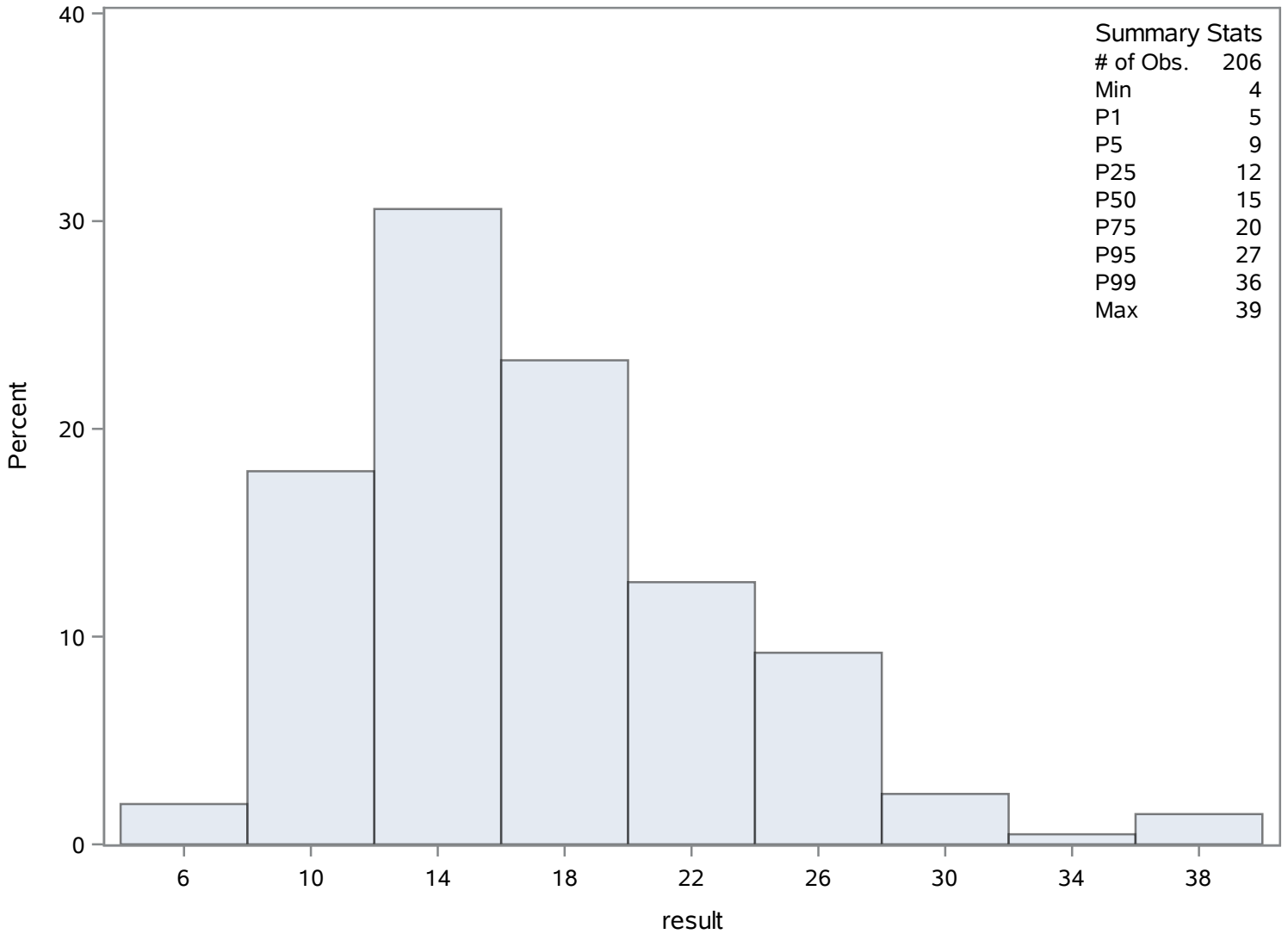
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 4 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	11.4736406	Sum Observations	2489.78
Std Deviation	4.50209243	Variance	20.2688362
Skewness	0.62177421	Kurtosis	0.17840442
Uncorrected SS	32944.9094	Corrected SS	4378.06862
Coeff Variation	39.2385695	Std Error Mean	0.30562195

Basic Statistical Measures			
Location		Variability	
Mean	11.47364	Std Deviation	4.50209
Median	10.93000	Variance	20.26884
Mode	6.00000	Range	24.48000
		Interquartile Range	6.02000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	37.54194	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	27.30
99%	22.28
95%	20.00
90%	18.00
75% Q3	14.06
50% Median	10.93
25% Q1	8.04
10%	6.17
5%	4.83

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.77
0% Min	2.82

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.82	1608	20.91	1677
3.48	1607	22.01	1593
3.77	1621	22.28	1582
3.86	1614	24.50	1594
4.00	1543	27.30	1558

Chassahowitzka River - Fixed Station

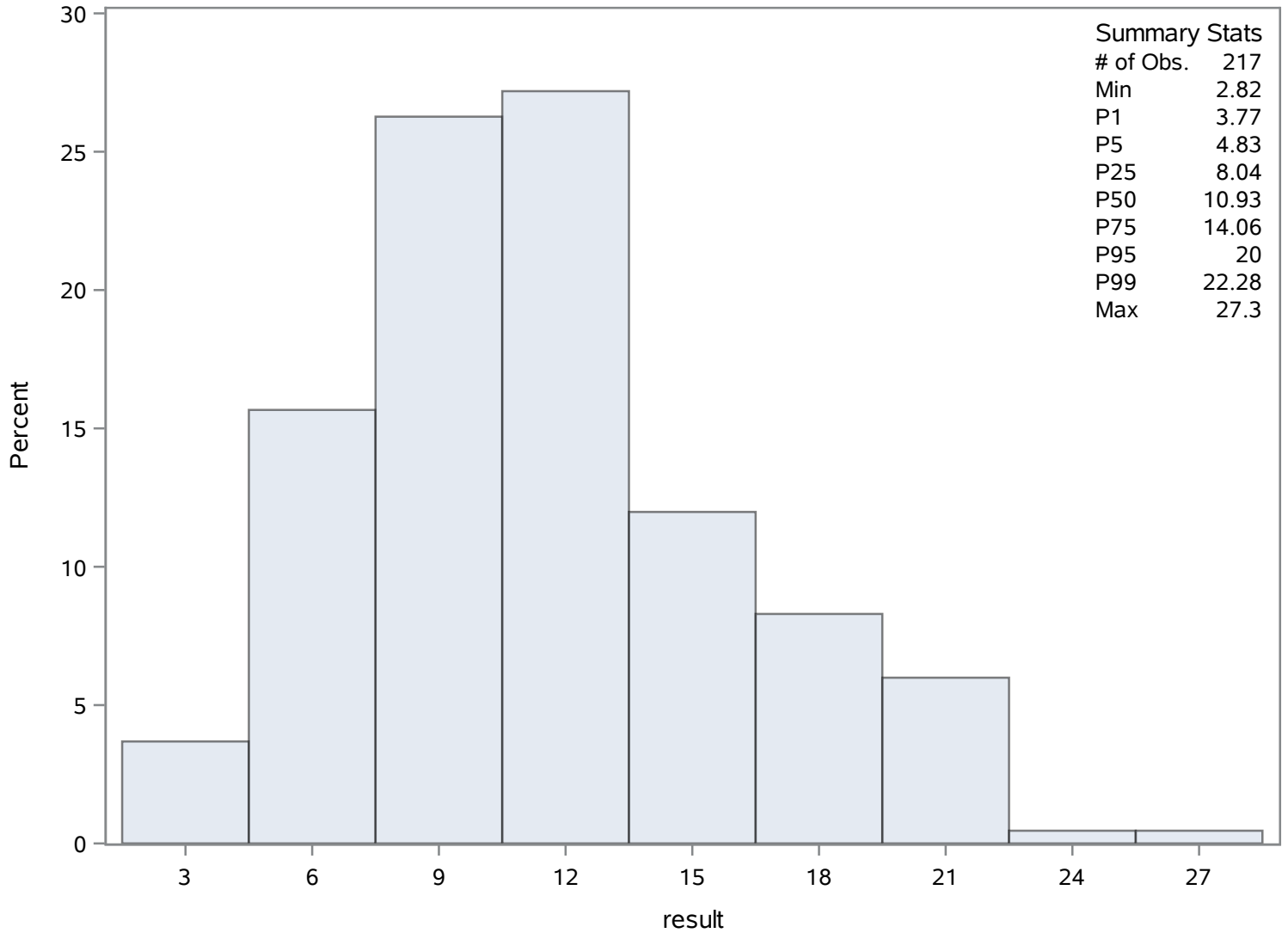
Source: COAST

Chassahowitzka Hernando 4

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	142	Sum Weights	142
Mean	1.705	Sum Observations	242.11
Std Deviation	0.56693496	Variance	0.32141525
Skewness	0.31757907	Kurtosis	-0.2346917
Uncorrected SS	458.1171	Corrected SS	45.31955
Coeff Variation	33.2513173	Std Error Mean	0.04757612

Basic Statistical Measures			
Location		Variability	
Mean	1.705000	Std Deviation	0.56693
Median	1.700000	Variance	0.32142
Mode	1.500000	Range	2.70000
		Interquartile Range	0.70000

Note: The mode displayed is the smallest of 2 modes with a count of 13.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	35.8373	Pr > t 	<.0001
Sign	M	71	Pr >= M 	<.0001
Signed Rank	S	5076.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.2
99%	3.1
95%	2.7
90%	2.4
75% Q3	2.0
50% Median	1.7
25% Q1	1.3
10%	1.0
5%	0.8

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.7
0% Min	0.5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	1845	2.9	1752
0.7	1850	3.0	1766
0.7	1763	3.0	1888
0.7	1760	3.1	1799
0.8	1883	3.2	1808

Chassahowitzka River - Fixed Station

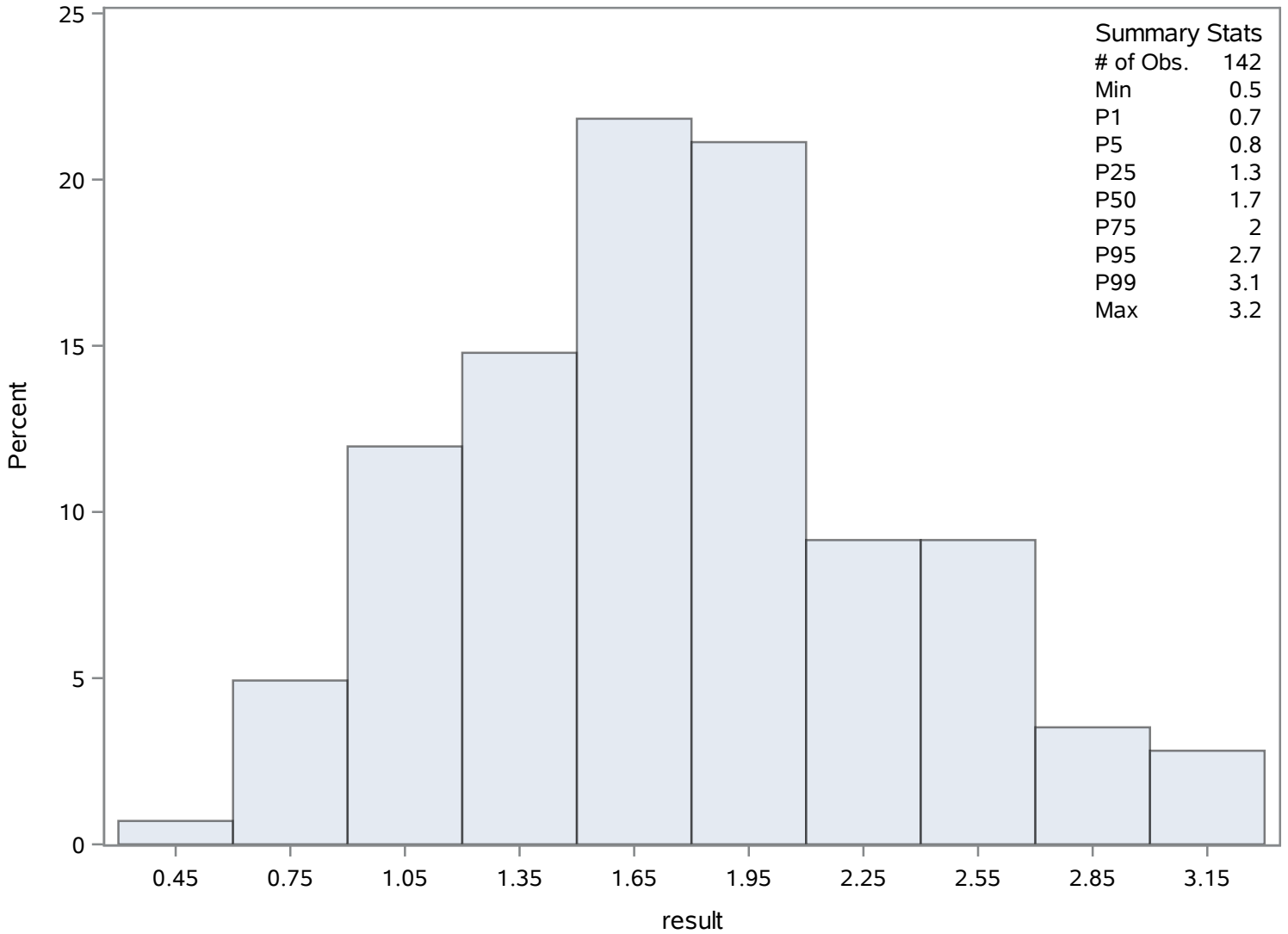
Source: COAST

Chassahowitzka Hernando 4

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	23.589213	Sum Observations	5095.27
Std Deviation	5.39226706	Variance	29.076544
Skewness	-0.404244	Kurtosis	-0.8246404
Uncorrected SS	126444.866	Corrected SS	6251.45697
Coeff Variation	22.8590376	Std Error Mean	0.3668973

Basic Statistical Measures			
Location		Variability	
Mean	23.58921	Std Deviation	5.39227
Median	24.23000	Variance	29.07654
Mode	16.48000	Range	22.40000
		Interquartile Range	8.41500

Note: The mode displayed is the smallest of 12 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	64.29378	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.900
99%	31.400
95%	30.810
90%	30.300
75% Q3	28.005
50% Median	24.230
25% Q1	19.590
10%	16.100
5%	14.000

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	11.280
0% Min	10.500

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.50	1934	31.22	2002
10.52	2055	31.32	2014
11.28	2054	31.40	1907
11.86	1983	31.88	2048
12.23	2044	32.90	1905

Chassahowitzka River - Fixed Station

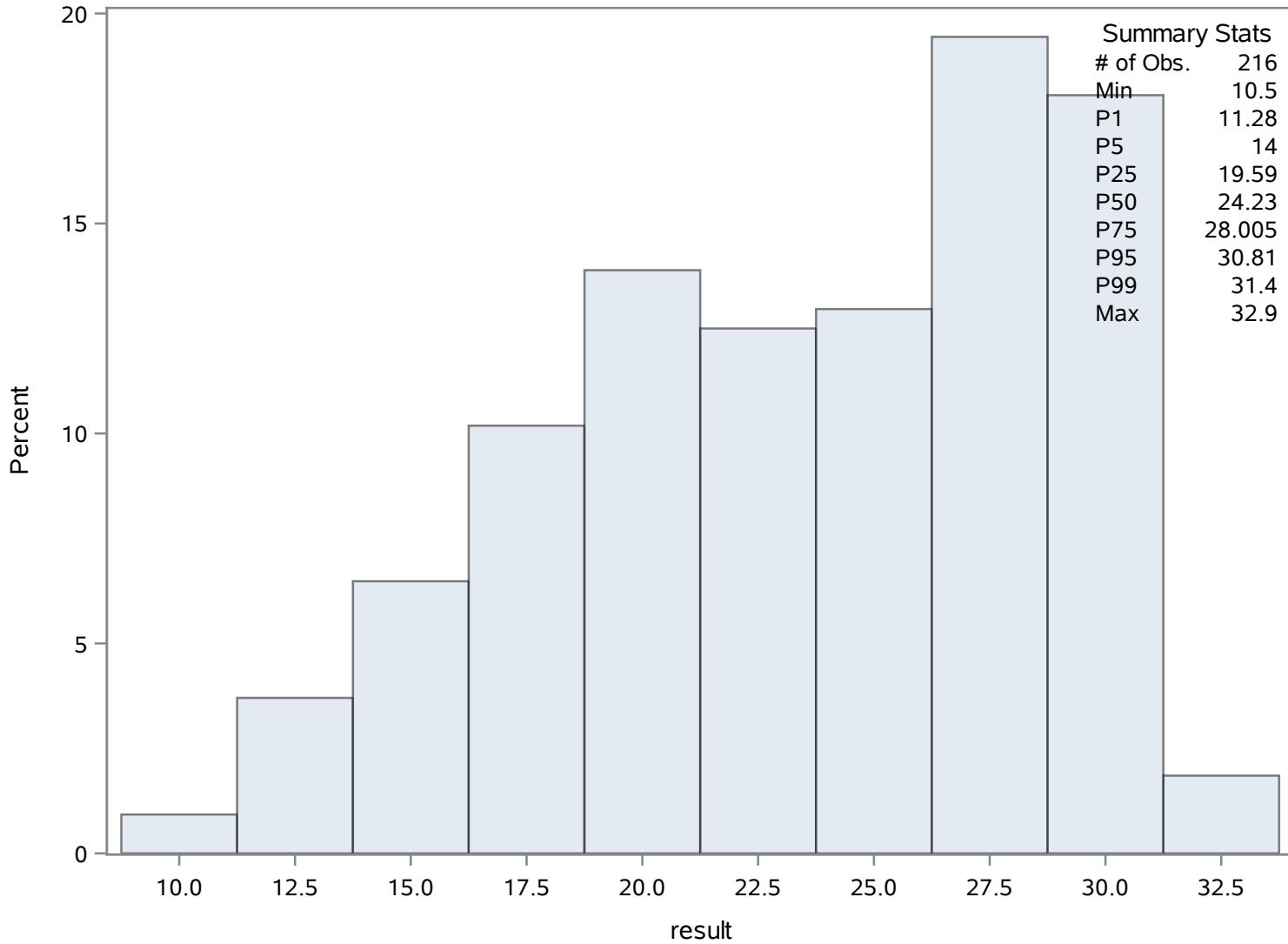
Source: COAST

Chassahowitzka Hernando 4

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	152	Sum Weights	152
Mean	7.79078947	Sum Observations	1184.2
Std Deviation	0.31645496	Variance	0.10014374
Skewness	-0.5380745	Kurtosis	2.5681522
Uncorrected SS	9240.9746	Corrected SS	15.1217053
Coeff Variation	4.06191136	Std Error Mean	0.02566789

Basic Statistical Measures			
Location		Variability	
Mean	7.790789	Std Deviation	0.31645
Median	7.810000	Variance	0.10014
Mode	7.920000	Range	2.34000
		Interquartile Range	0.31500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	303.5228	Pr > t 	<.0001
Sign	M	76	Pr >= M 	<.0001
Signed Rank	S	5814	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.710
99%	8.570
95%	8.290
90%	8.150
75% Q3	7.950
50% Median	7.810
25% Q1	7.635
10%	7.430
5%	7.210
1%	6.920
0% Min	6.370

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.37	2179	8.38	2184
6.92	2180	8.48	2110
7.10	2224	8.50	2206
7.17	2189	8.57	2112
7.19	2198	8.71	2109

Chassahowitzka River - Fixed Station

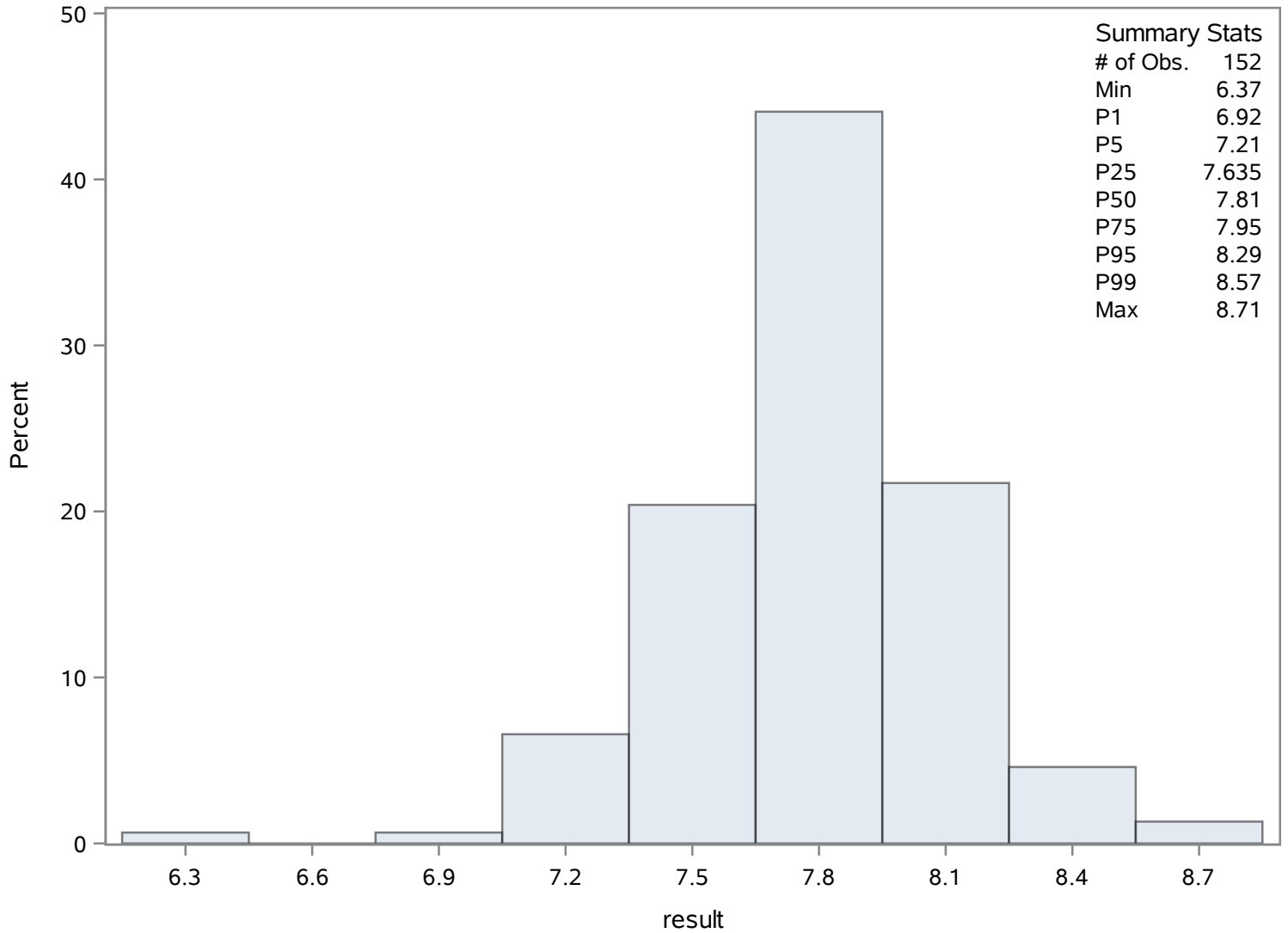
Source: COAST

Chassahowitzka Hernando 4

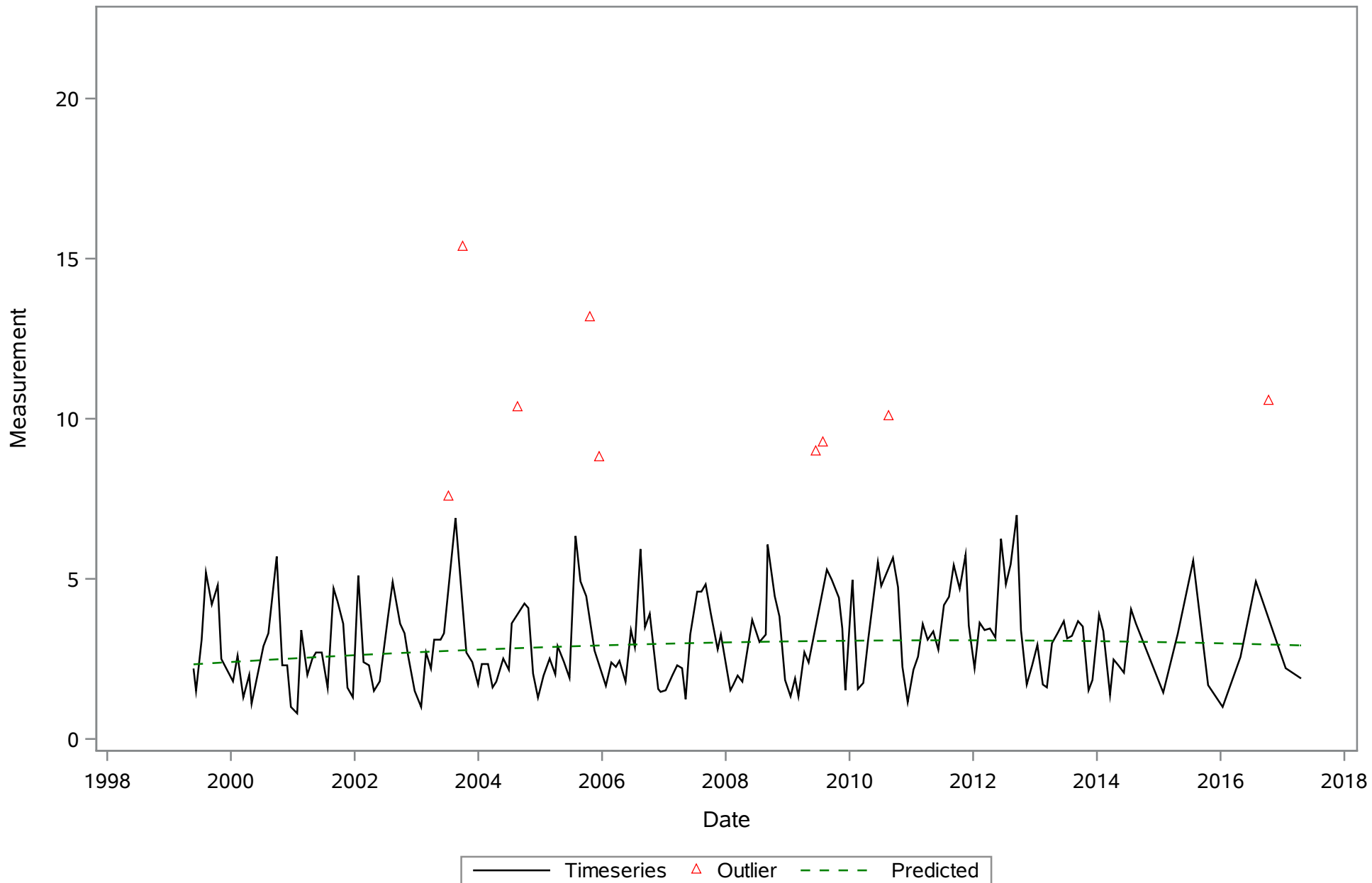
pH (Total) SU

The UNIVARIATE Procedure

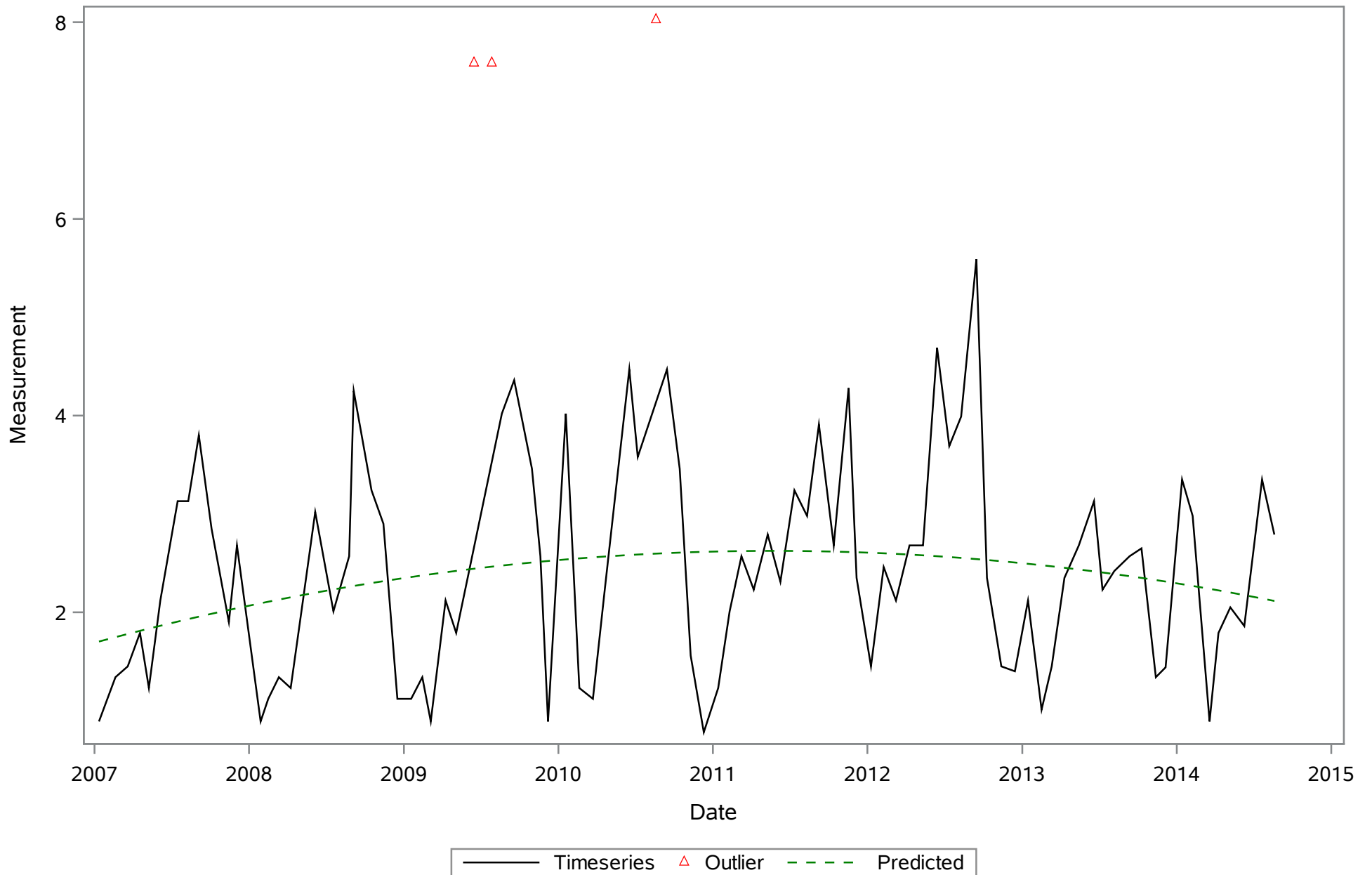
Distribution of result



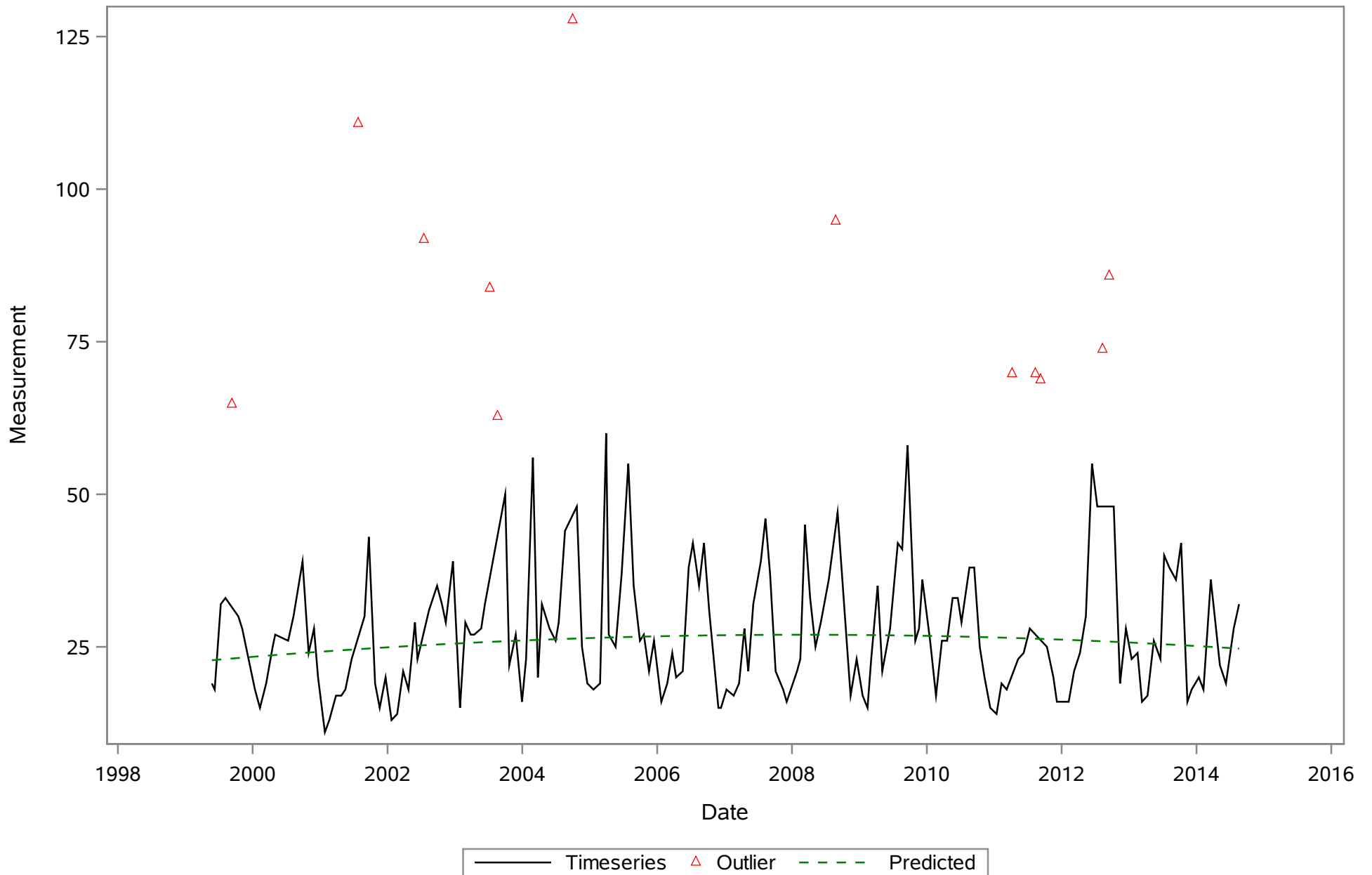
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll (Total) ug/L



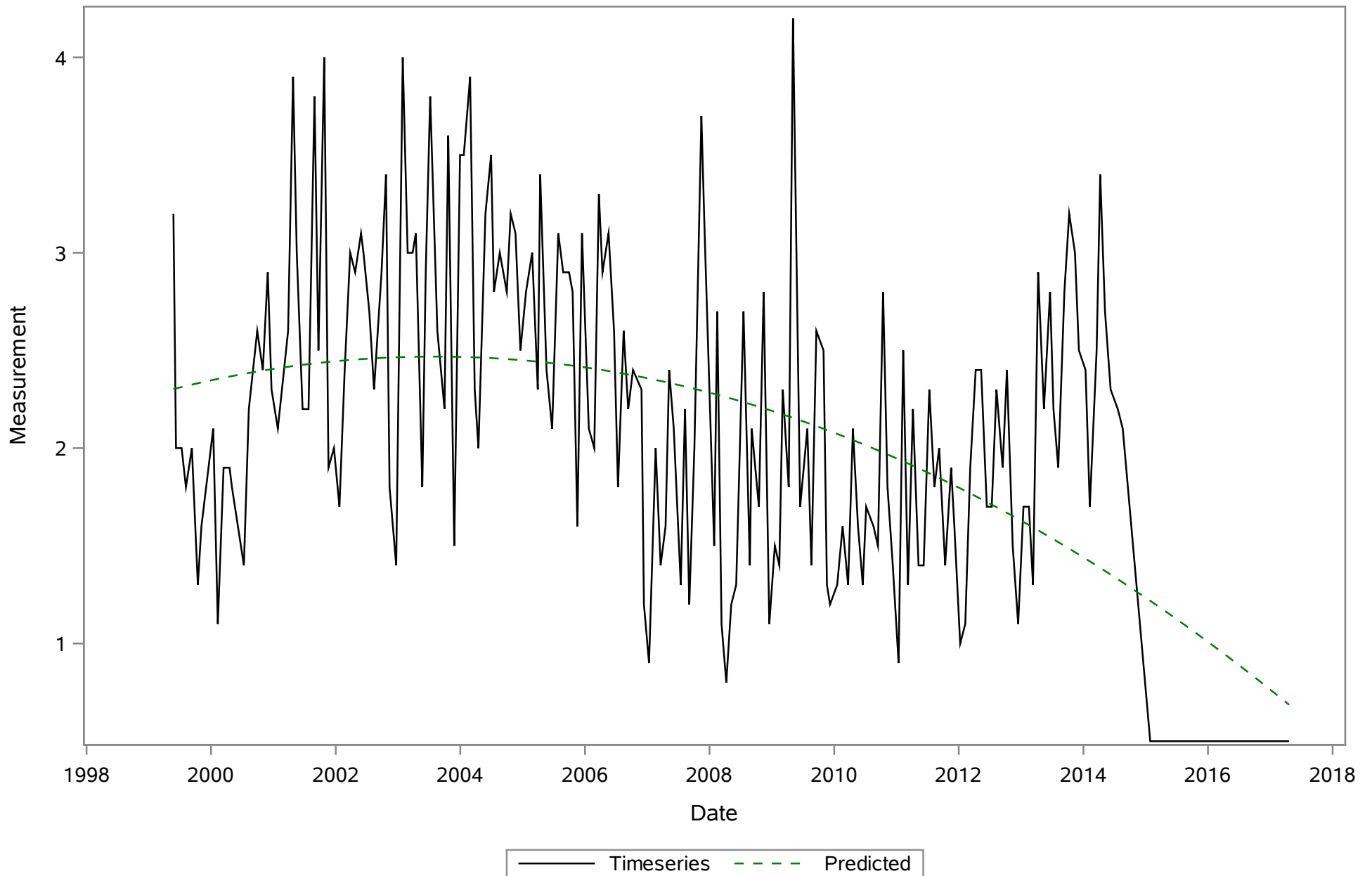
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll a (Total) ug/L



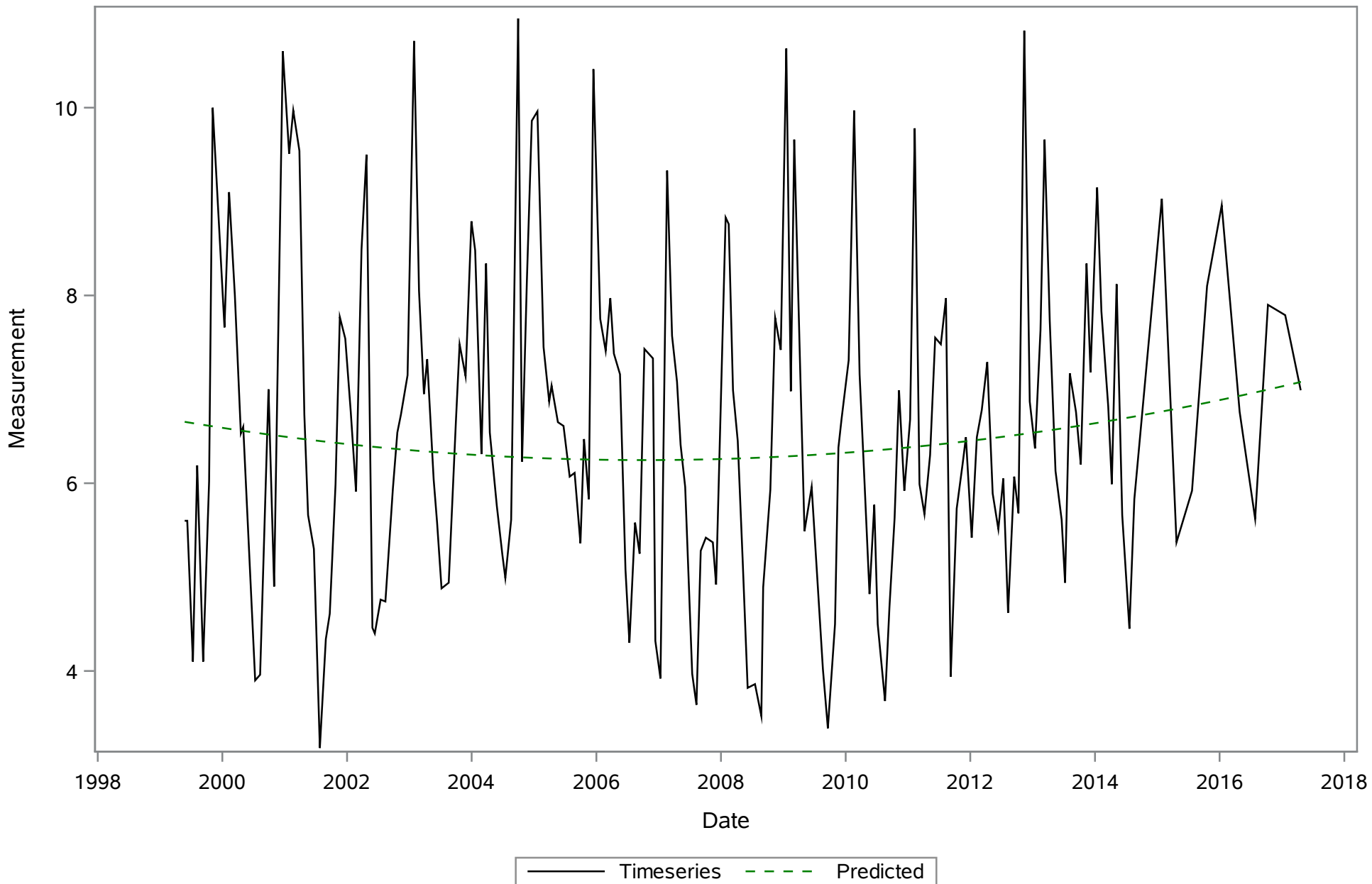
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Color (Total) PCU



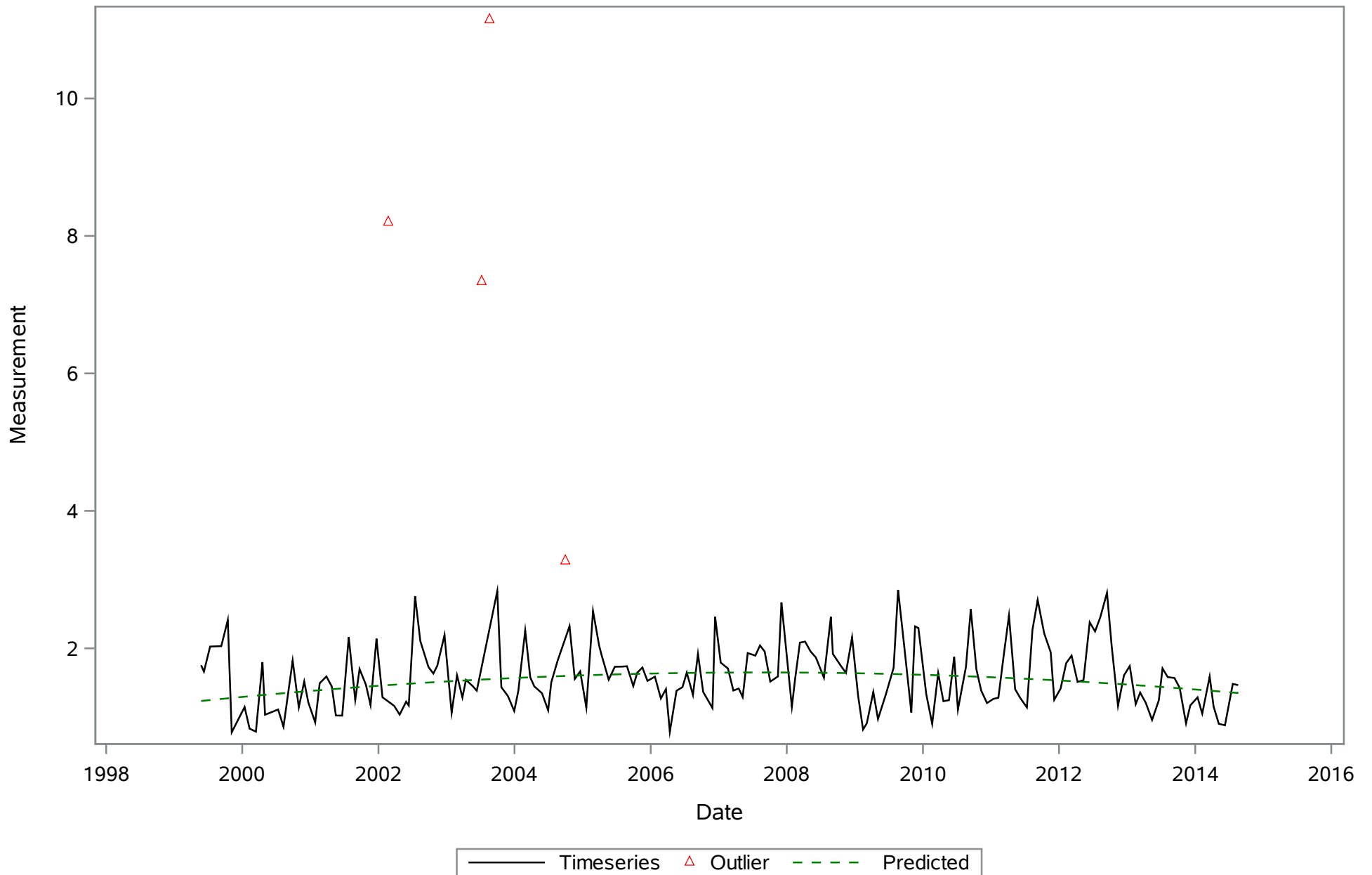
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Depth (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Dissolved Oxygen (Total) mg/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Light, Attenuation Coefficient Kd/m

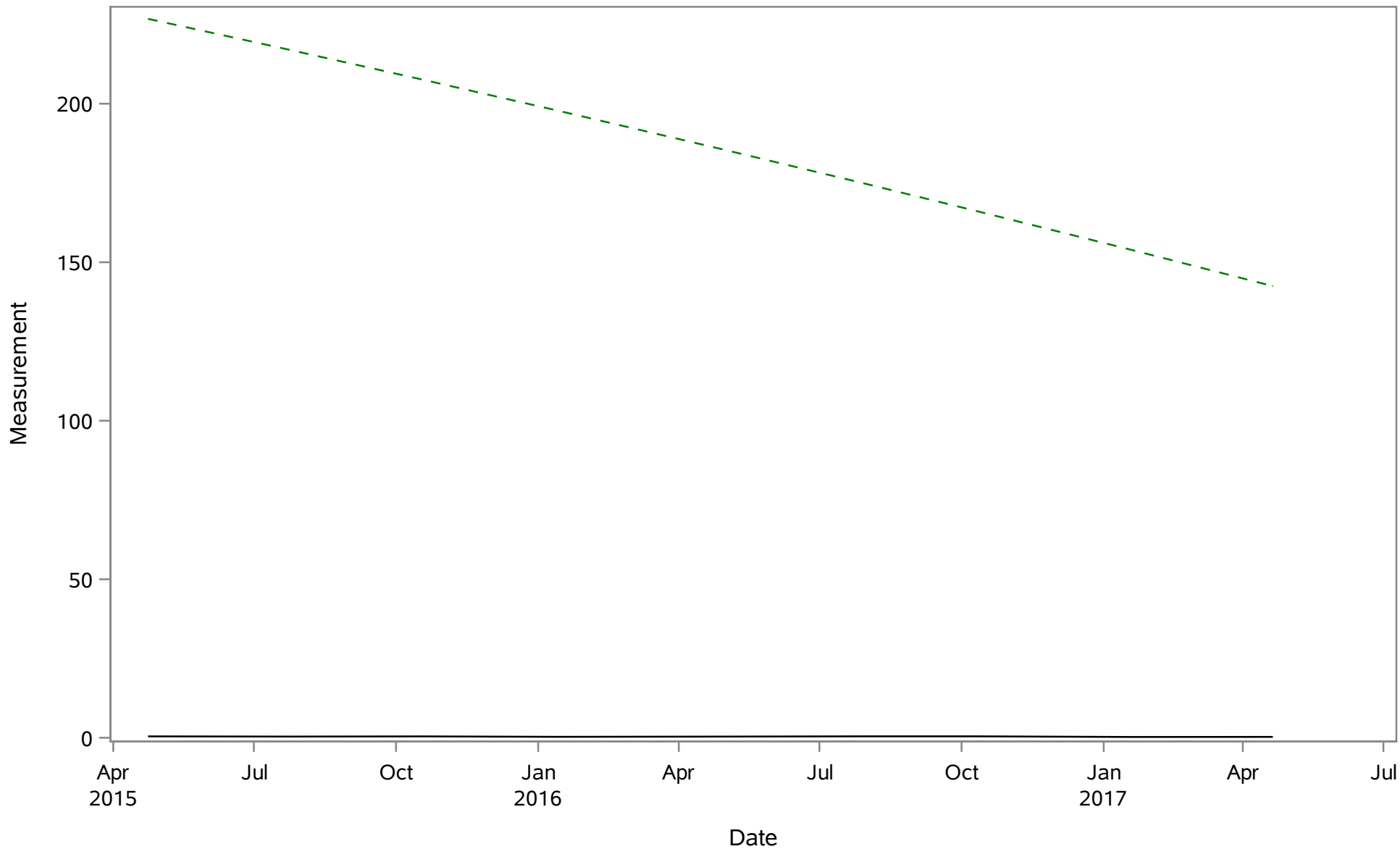


Chassahowitzka River - Fixed Station

Source: COAST

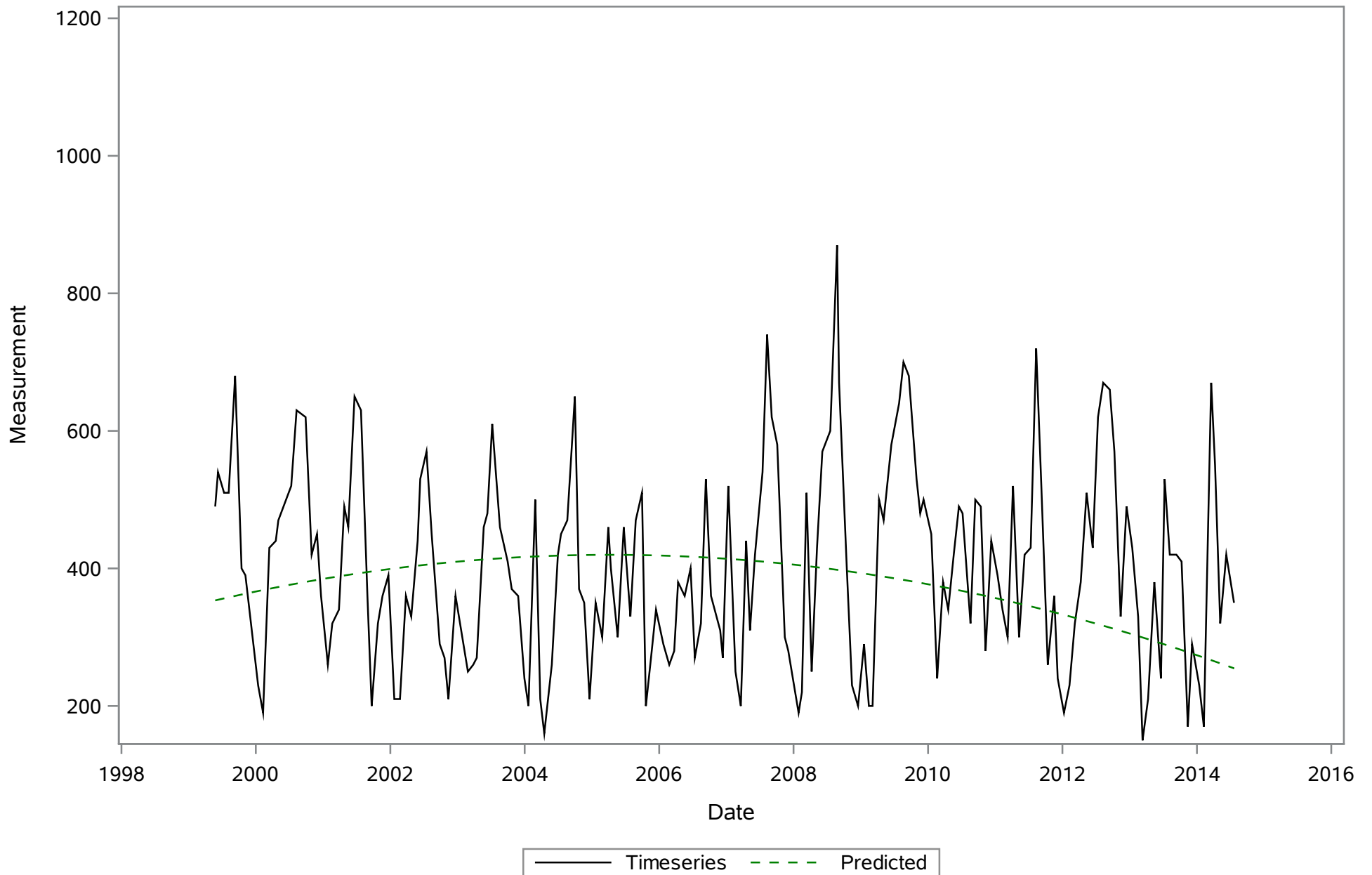
Chassahowitzka Hernando 4

Nitrogen- Total (Total) mg/L

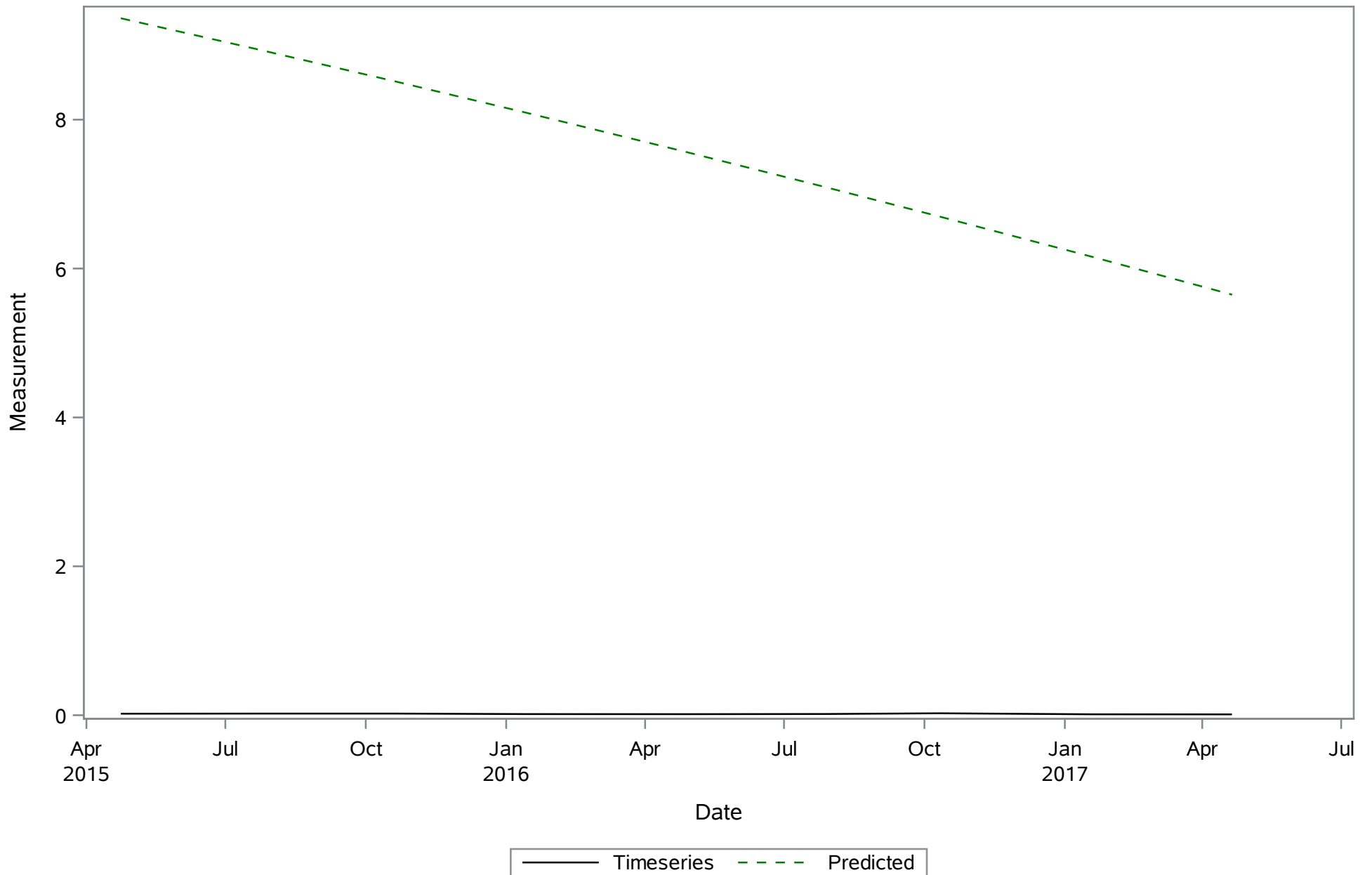


— Timeseries - - - Predicted

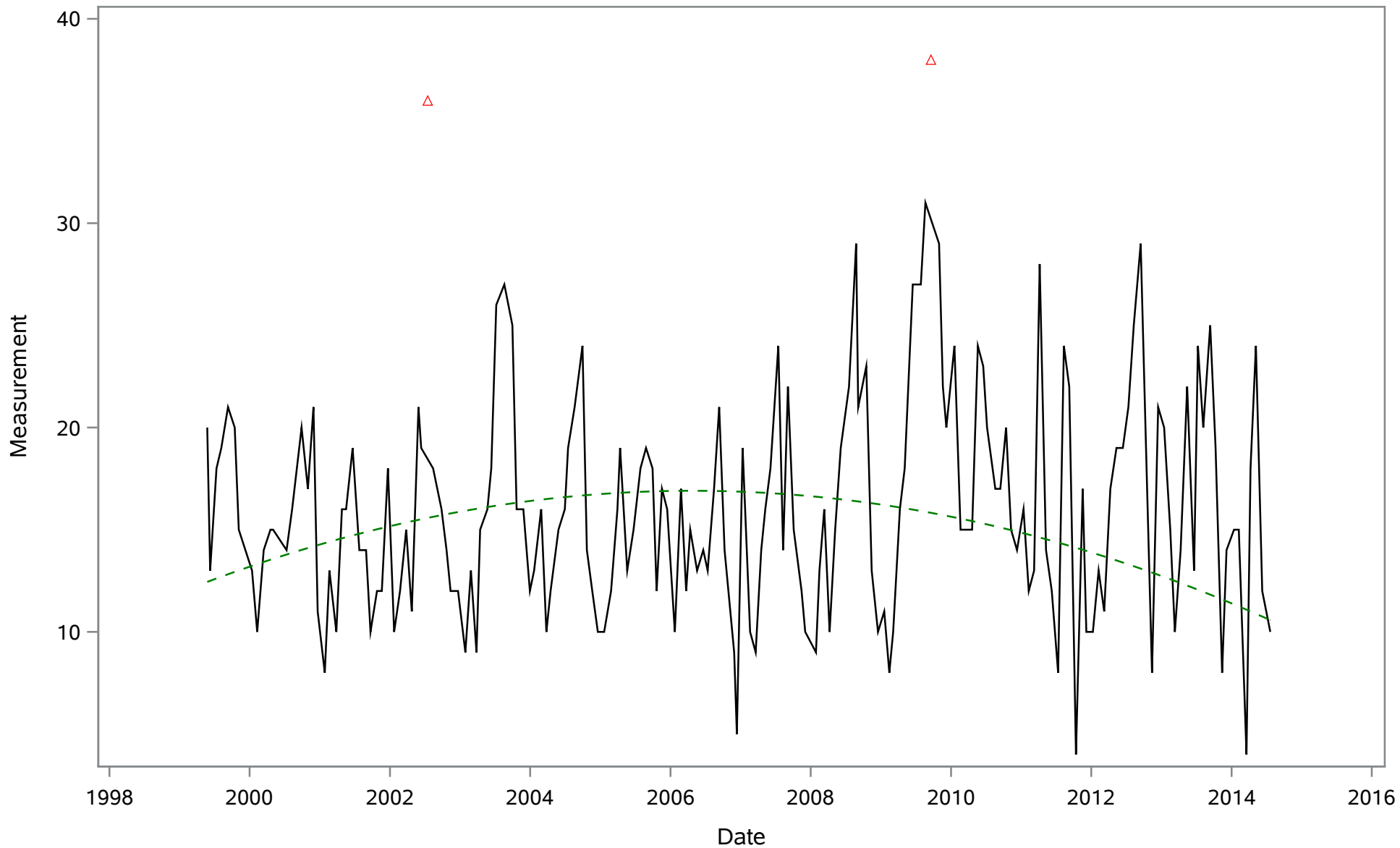
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Nitrogen- Total (Total) ug/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) mg/L

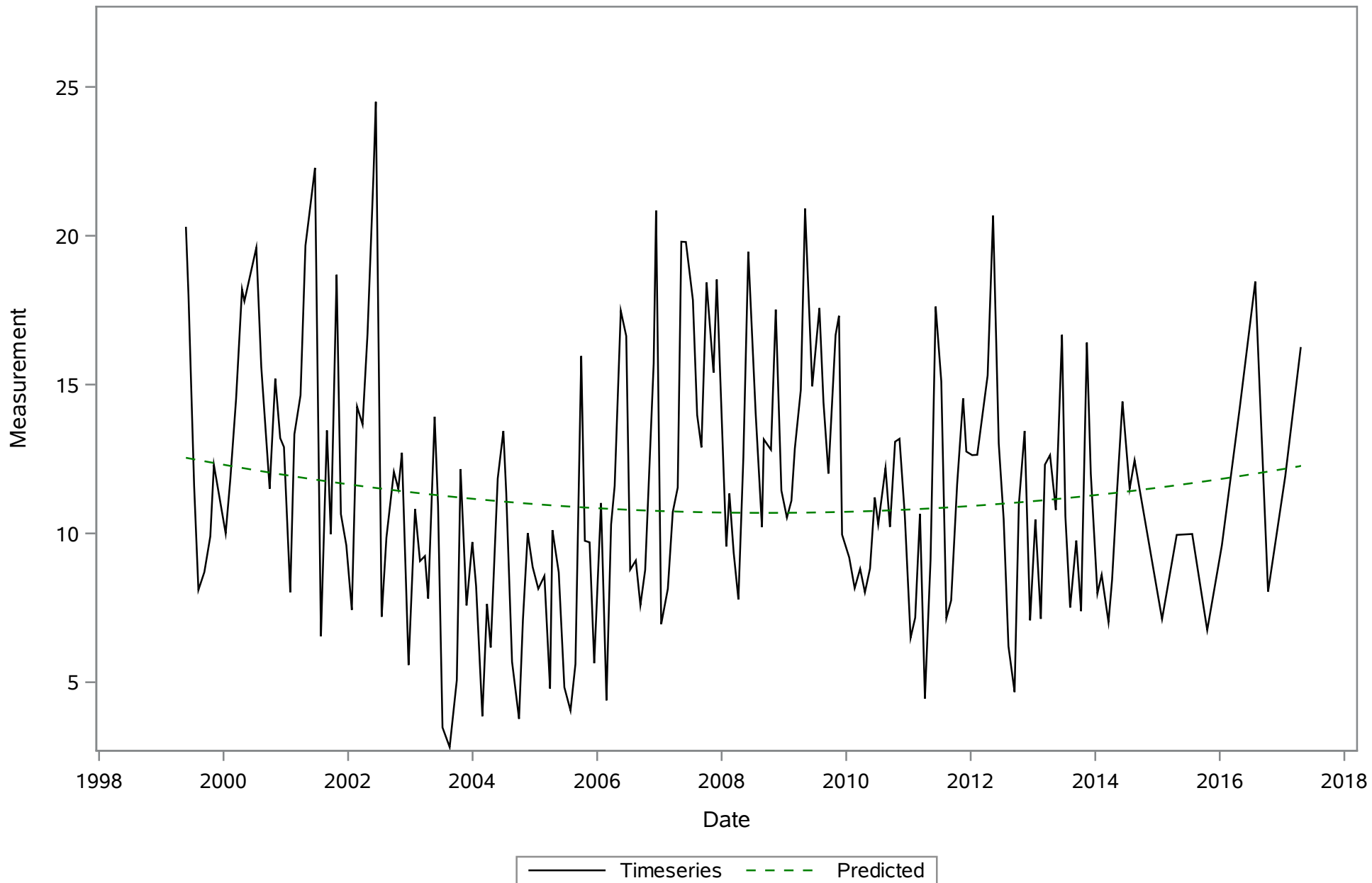


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) ug/L

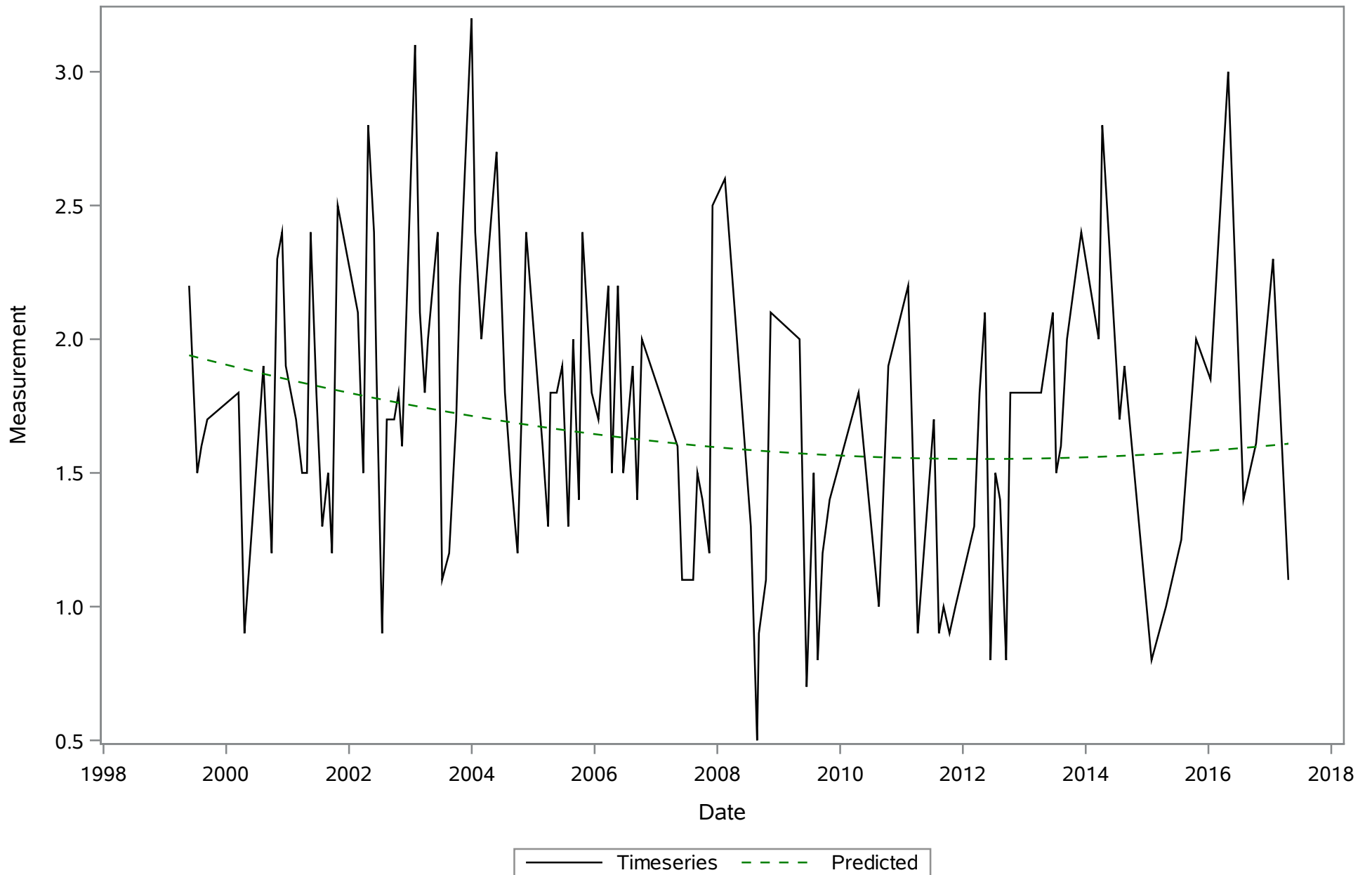


— Timeseries △ Outlier - - - Predicted

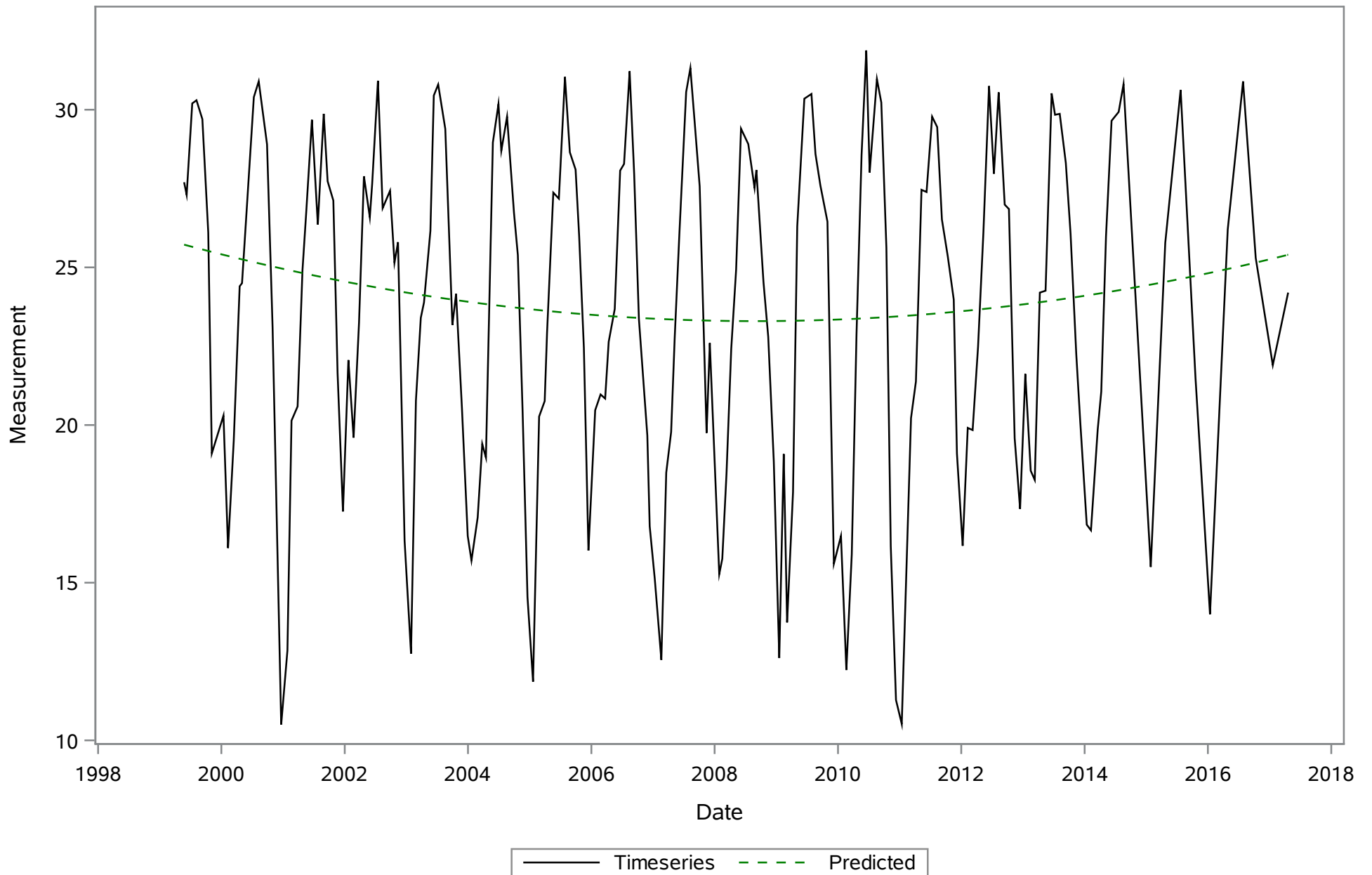
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Salinity (Total) ppt



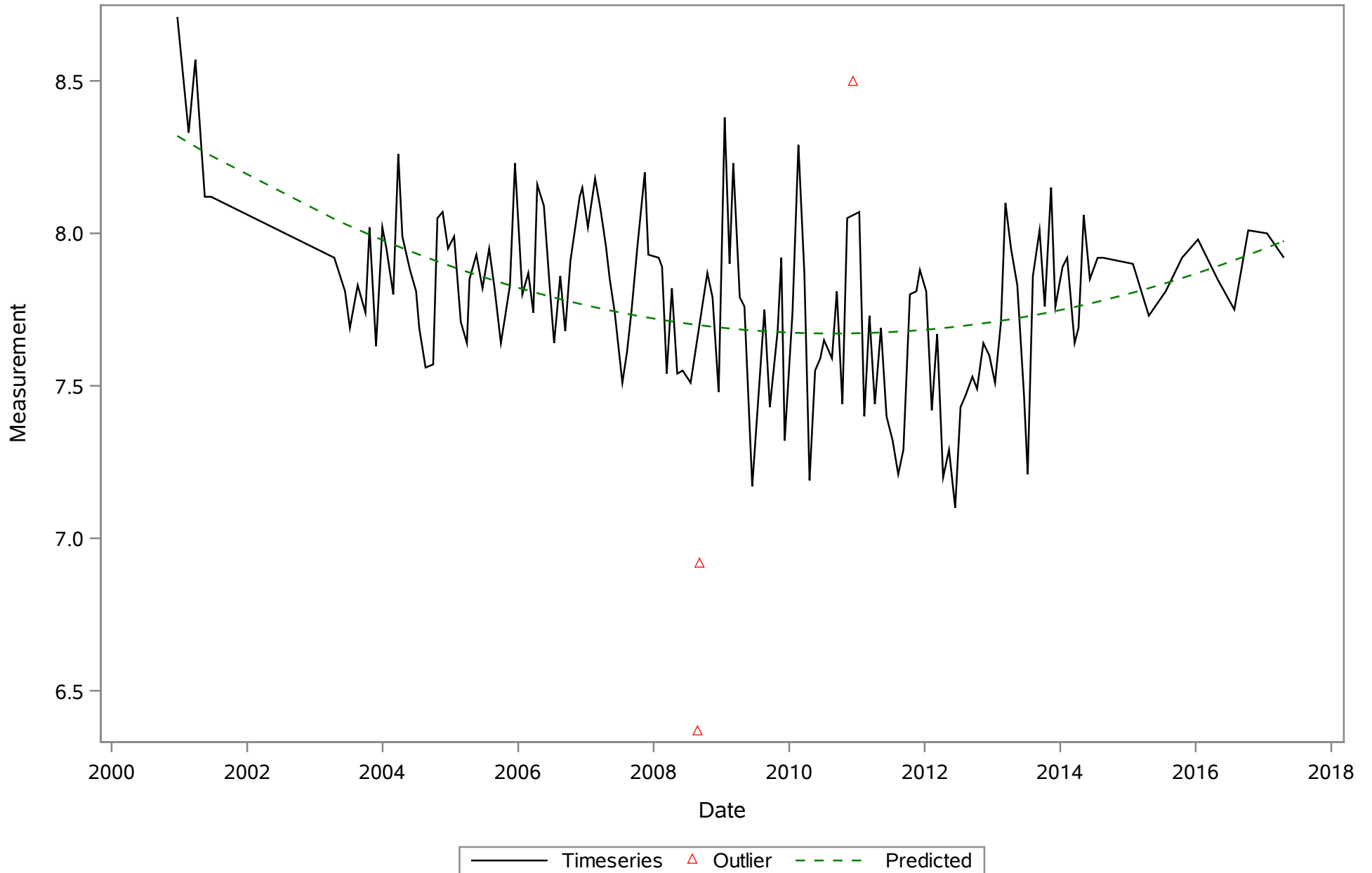
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Secchi-vertical (Total) Meters



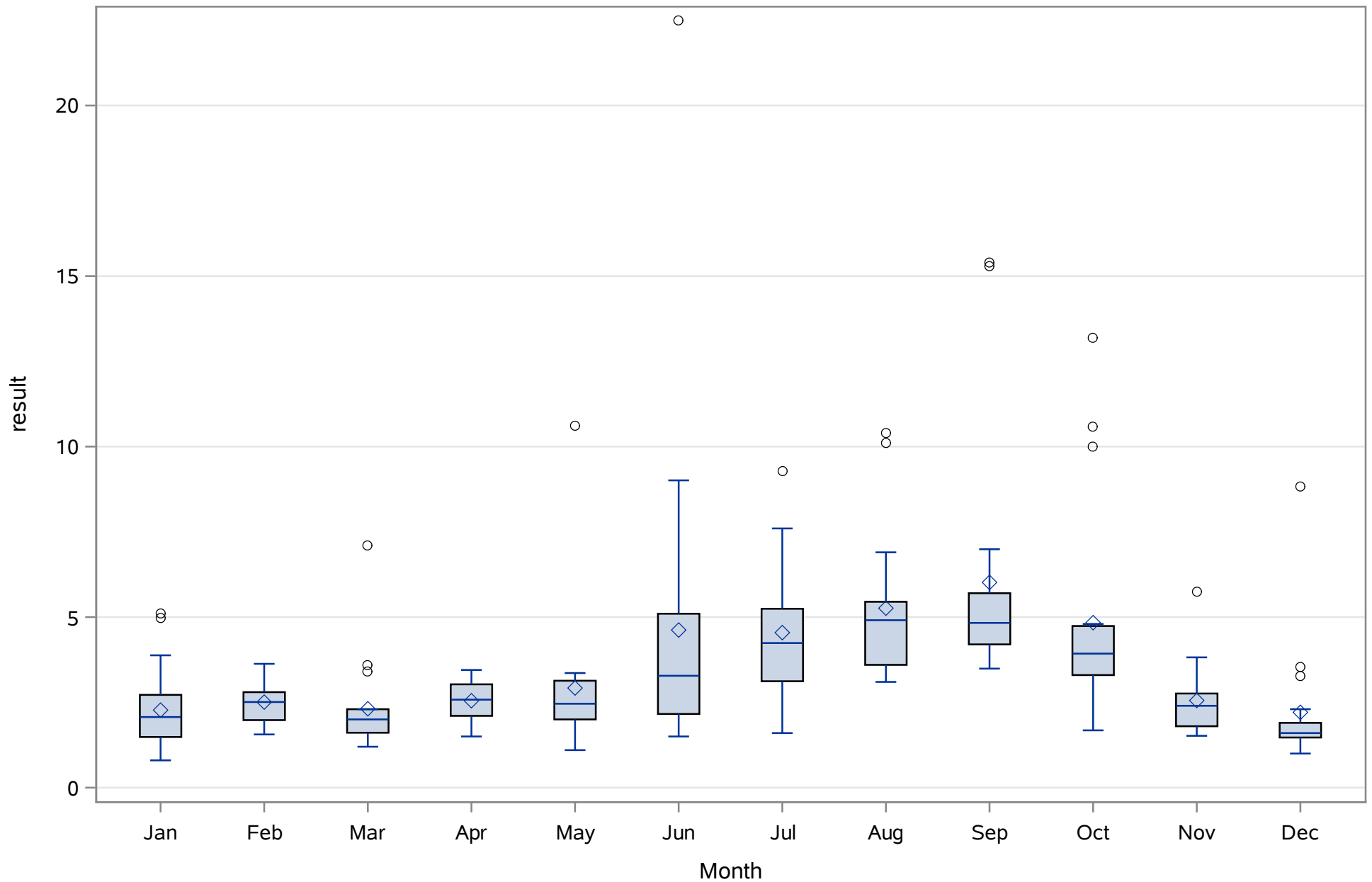
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Temperature (Total) Deg. C



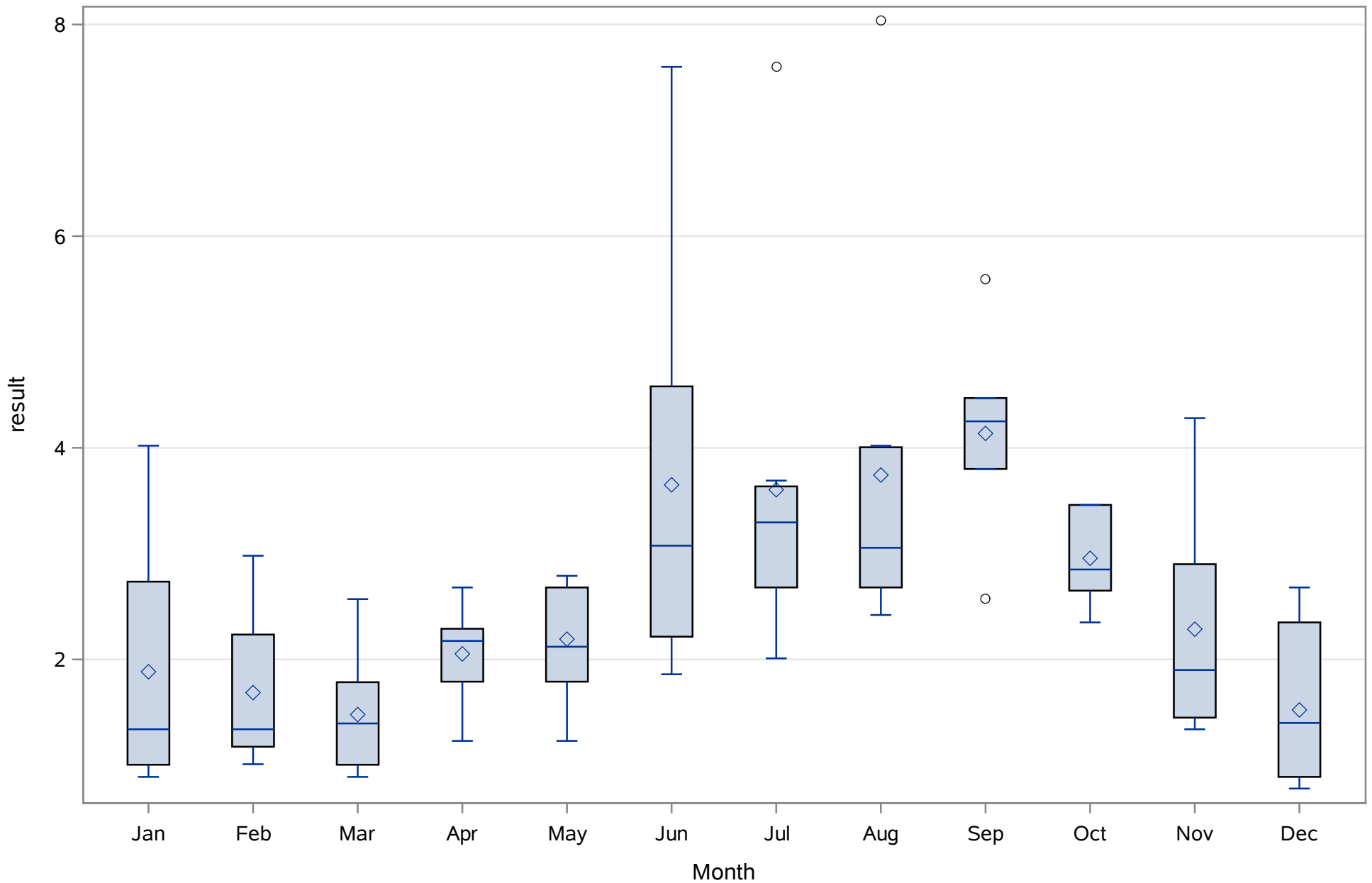
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
pH (Total) SU



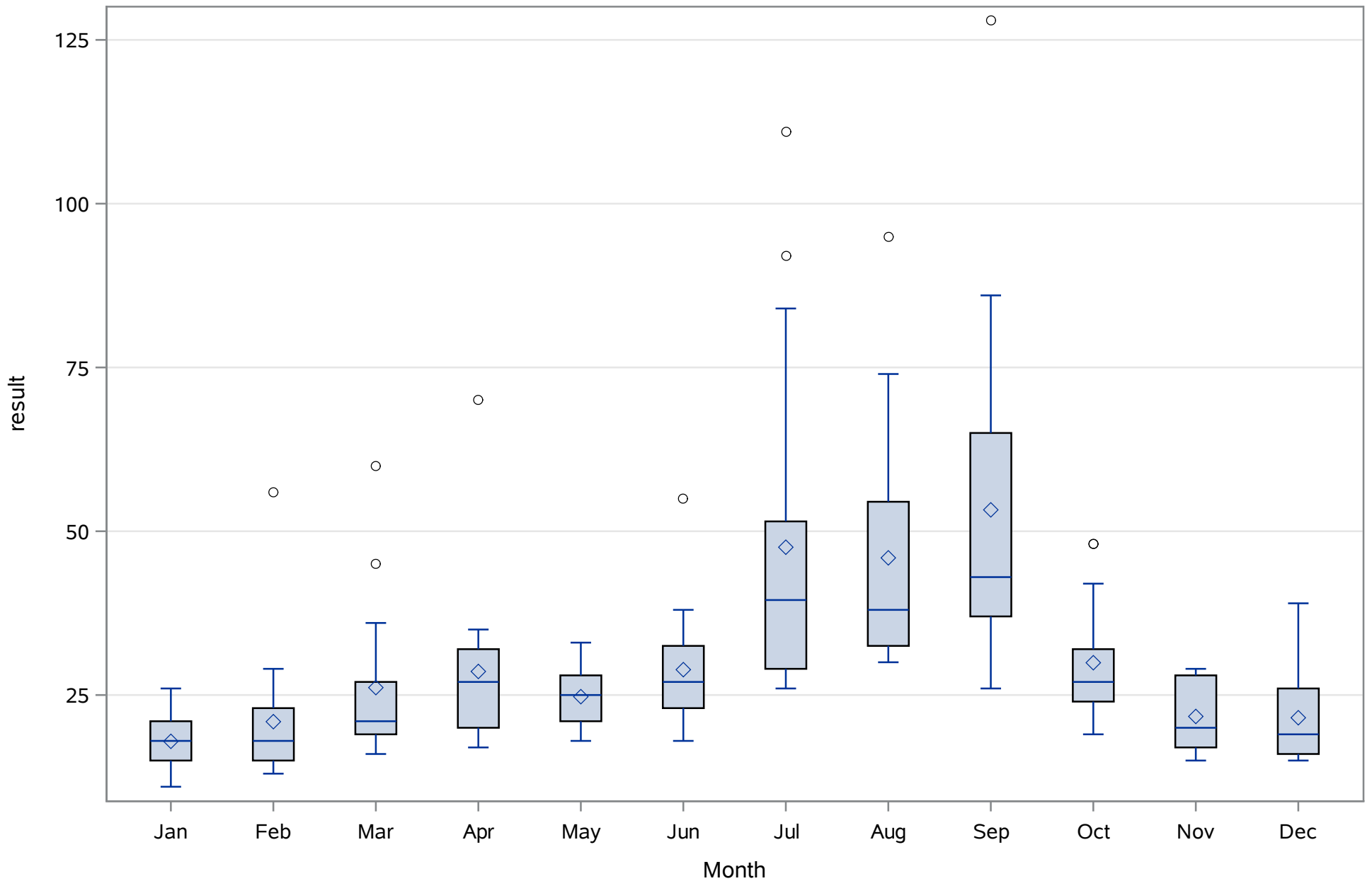
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll (Total) ug/L



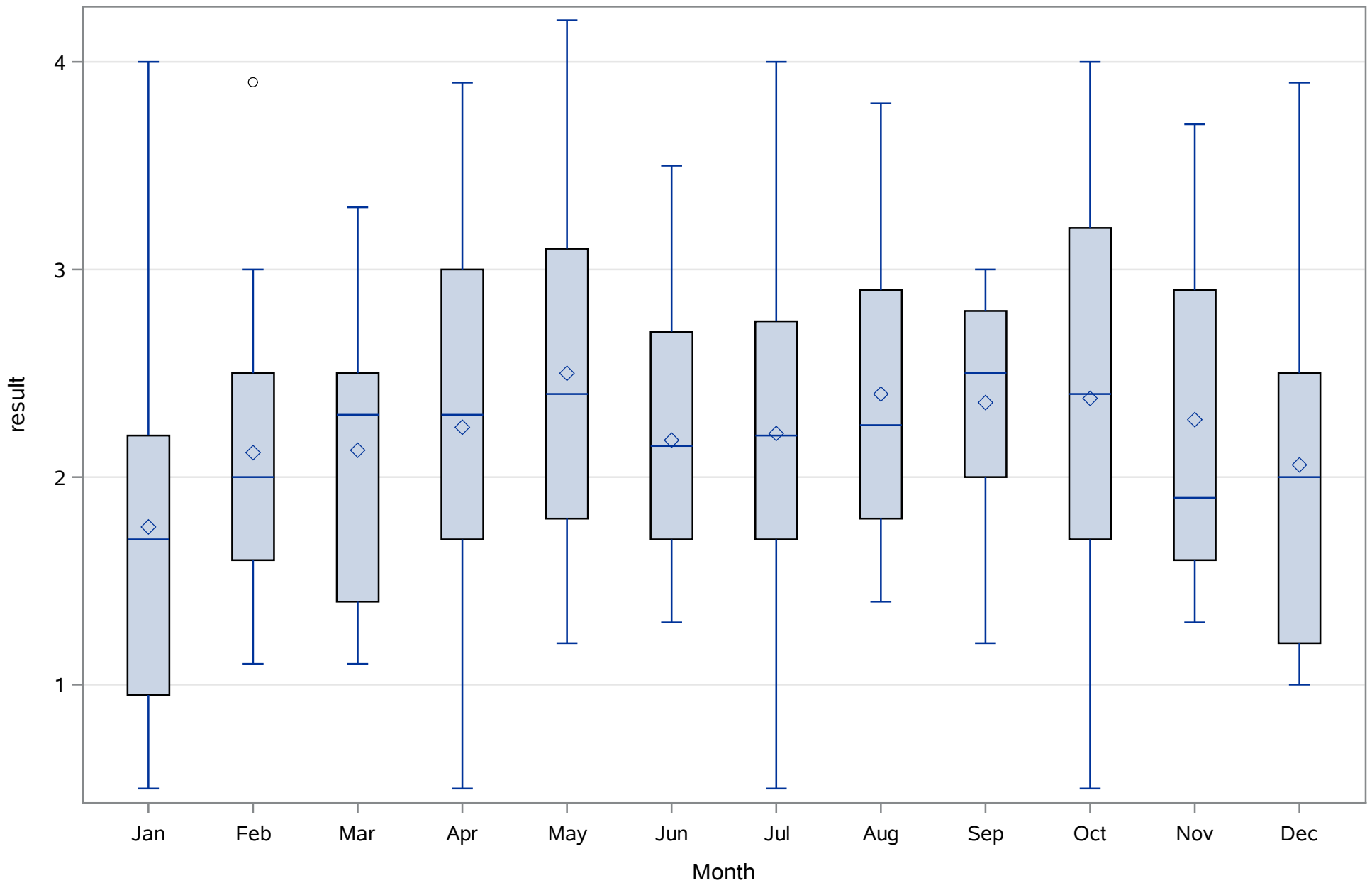
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Chlorophyll a (Total) ug/L



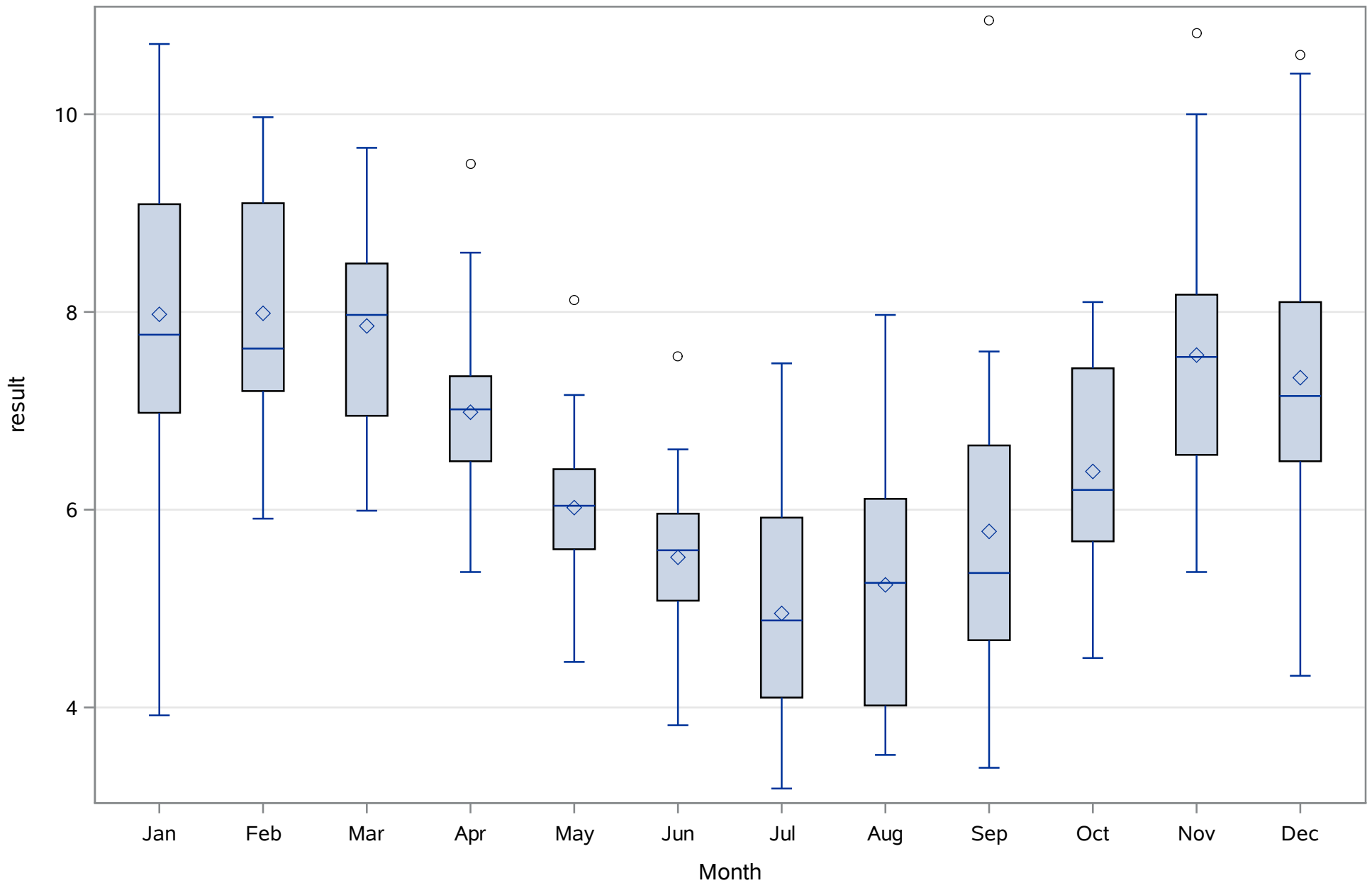
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Color (Total) PCU



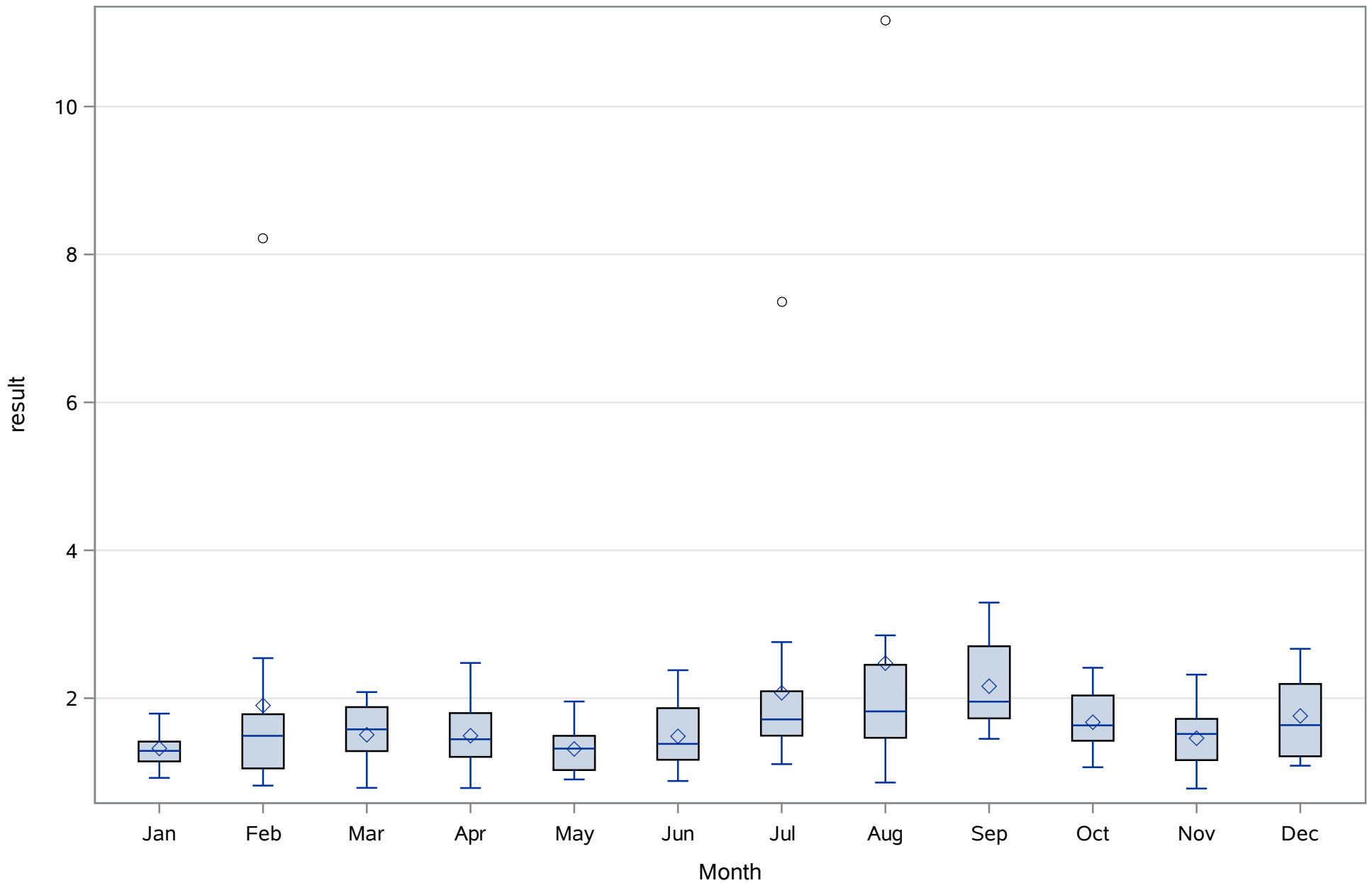
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Depth (Total) Meters



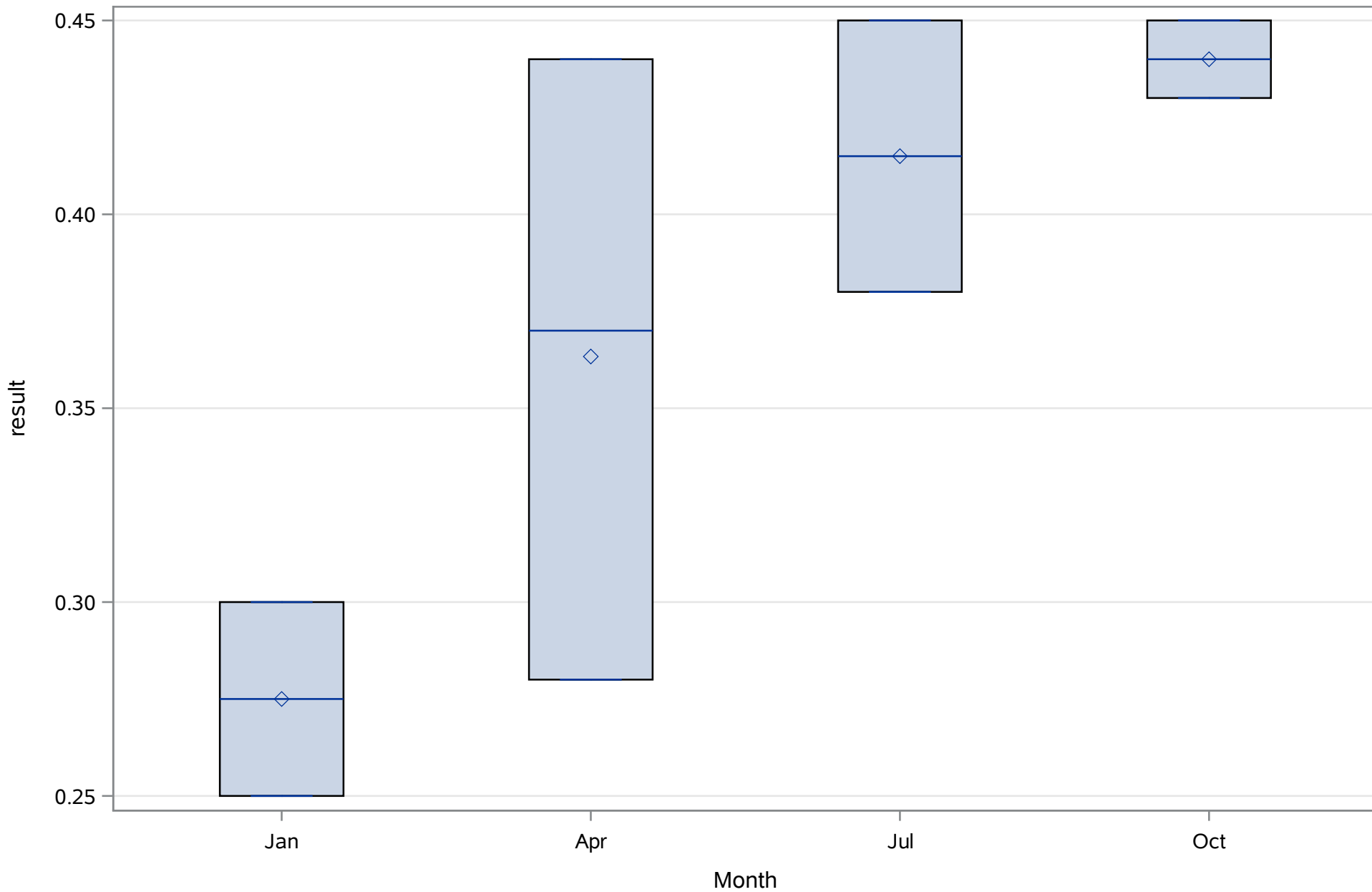
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Dissolved Oxygen (Total) mg/L



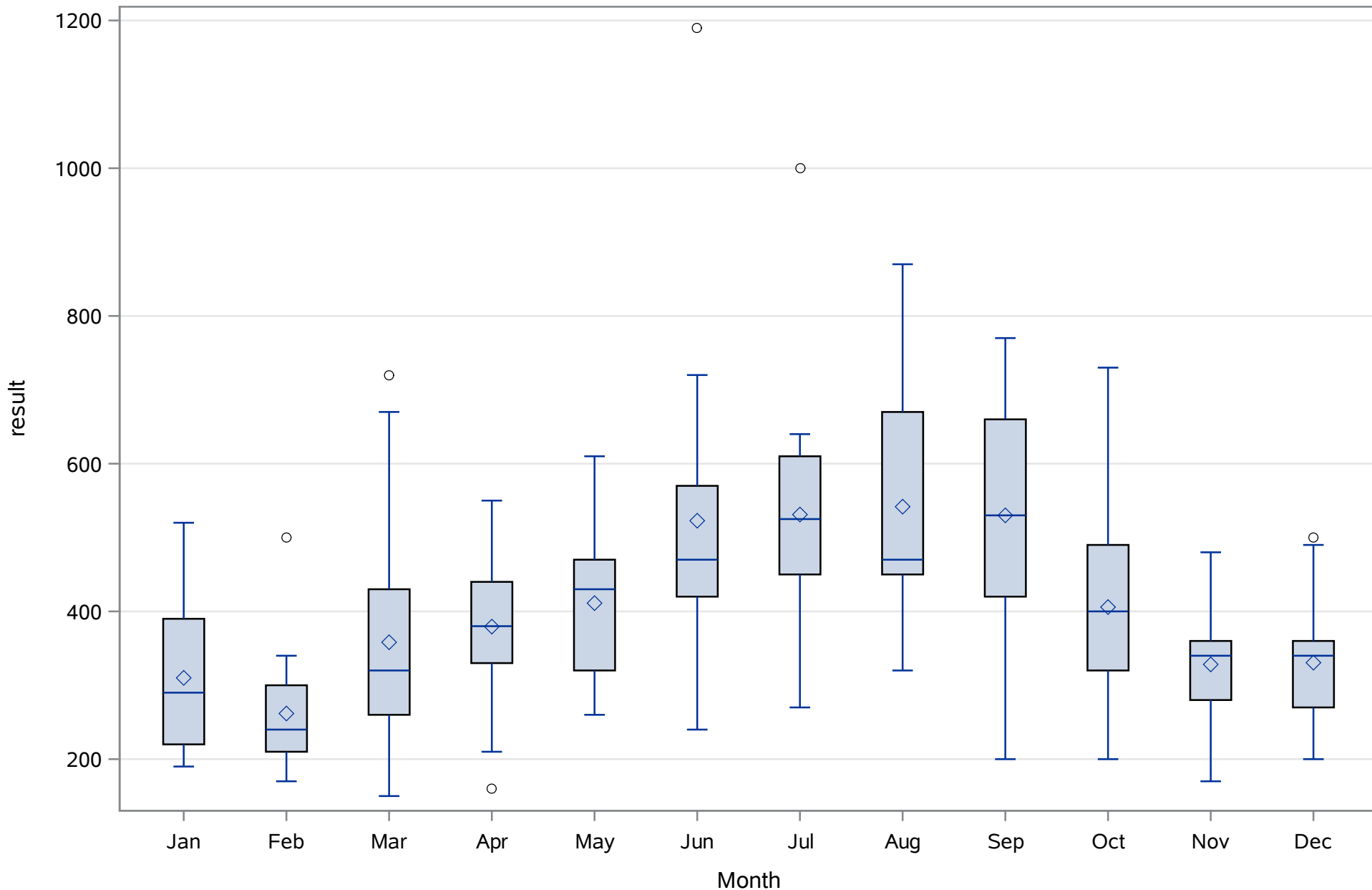
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Light, Attenuation Coefficient Kd/m



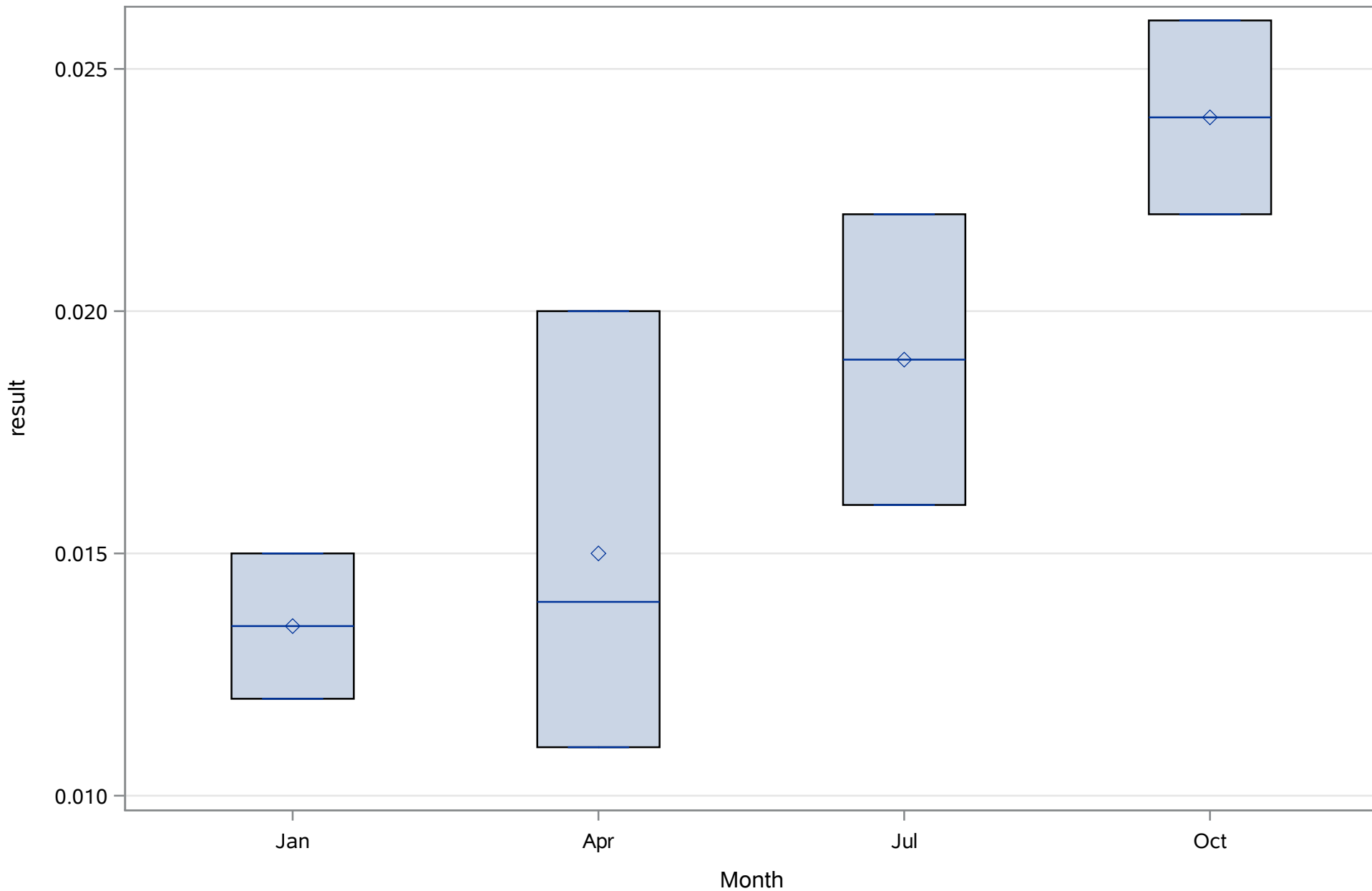
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Nitrogen- Total (Total) mg/L



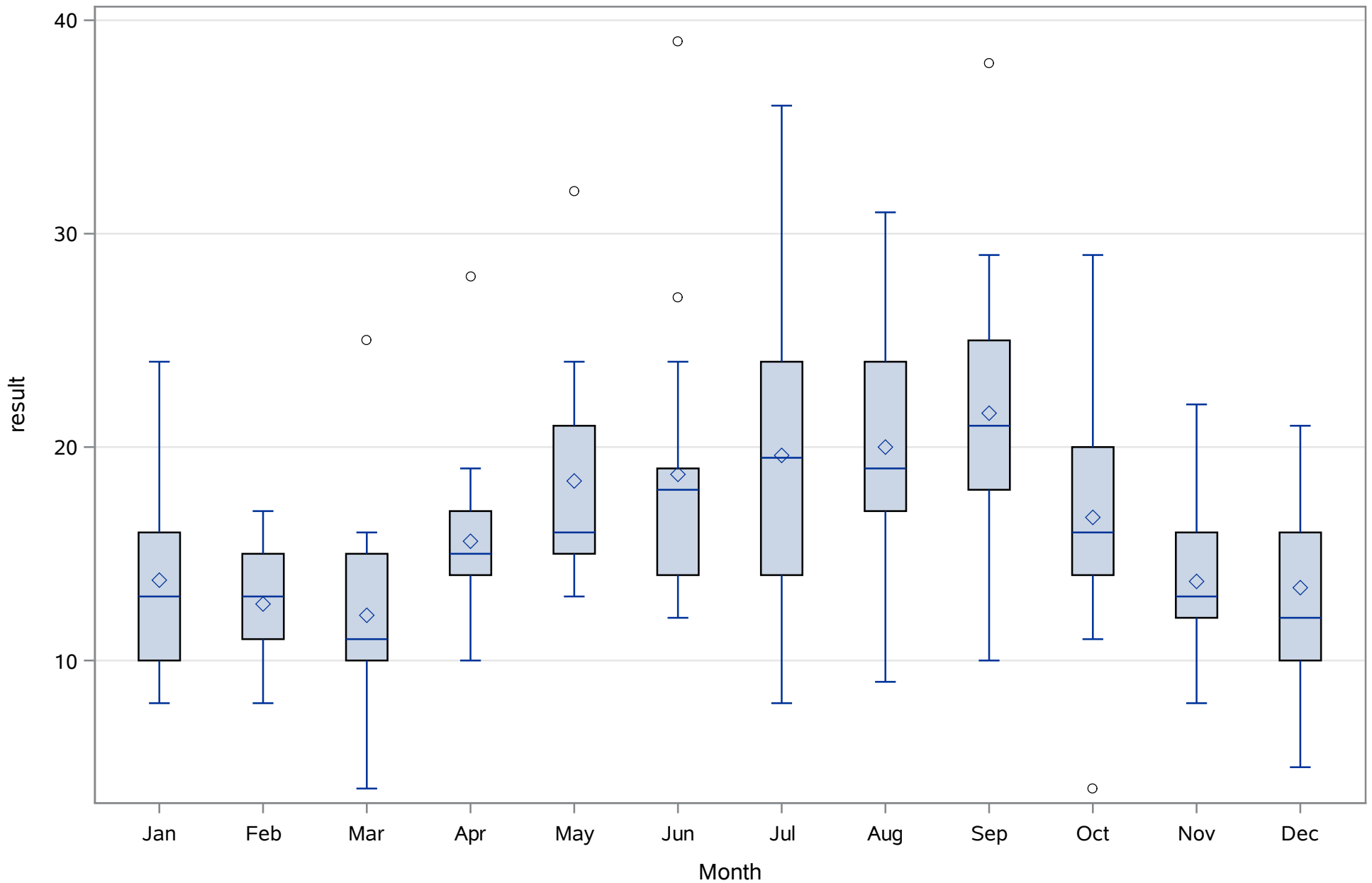
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Nitrogen- Total (Total) ug/L



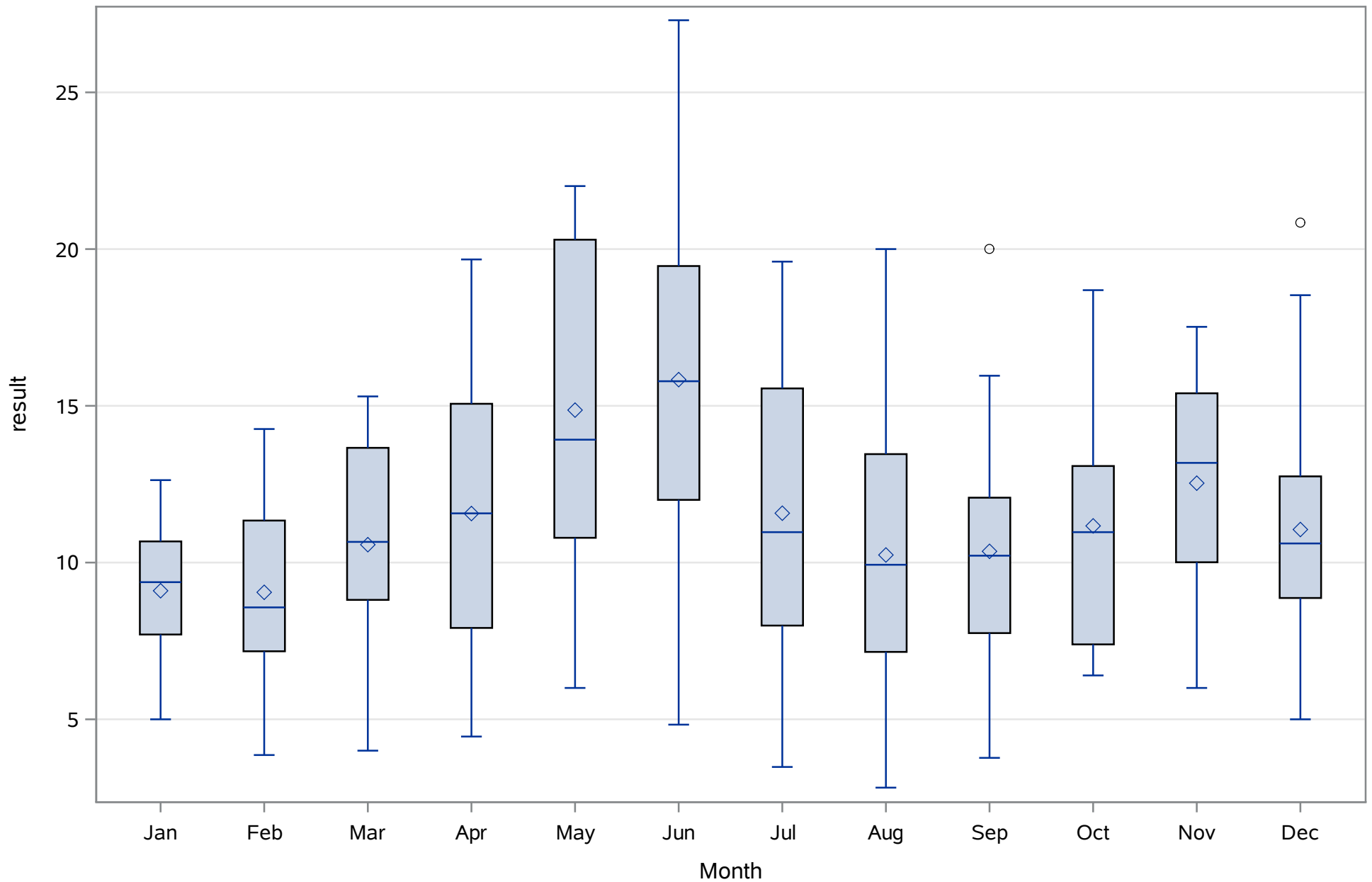
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) mg/L



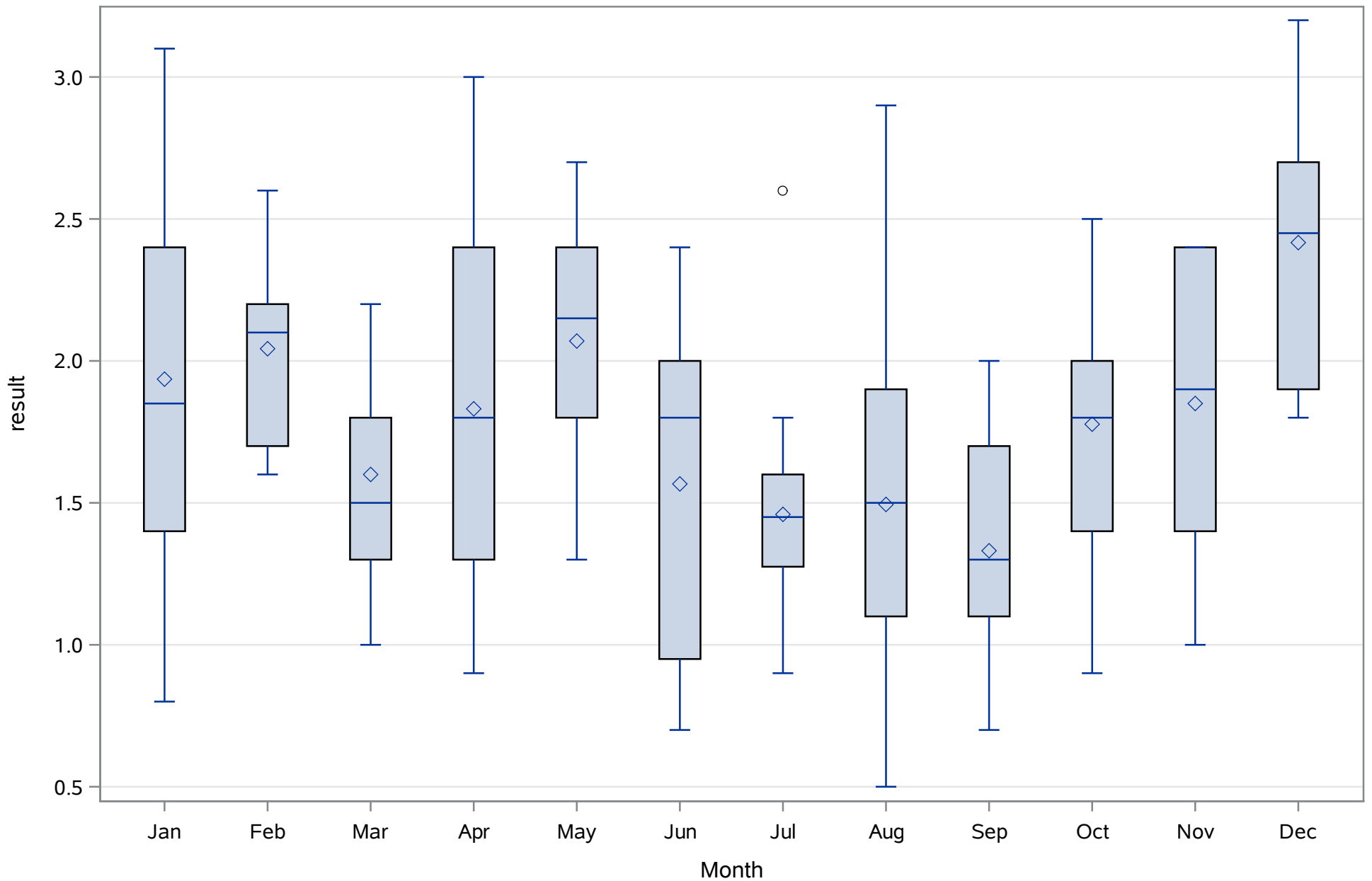
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Phosphorus- Total (Total) ug/L



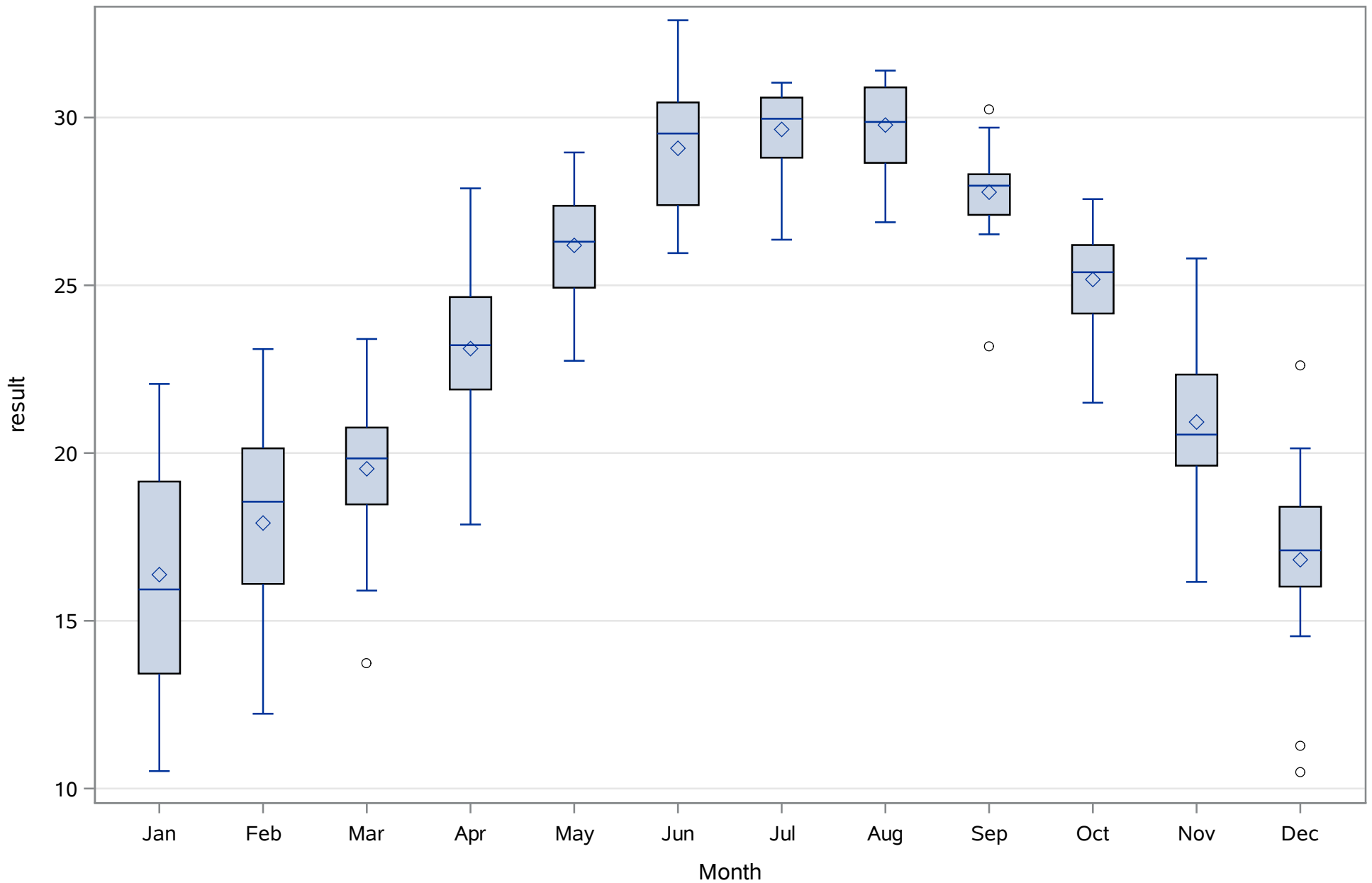
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Salinity (Total) ppth



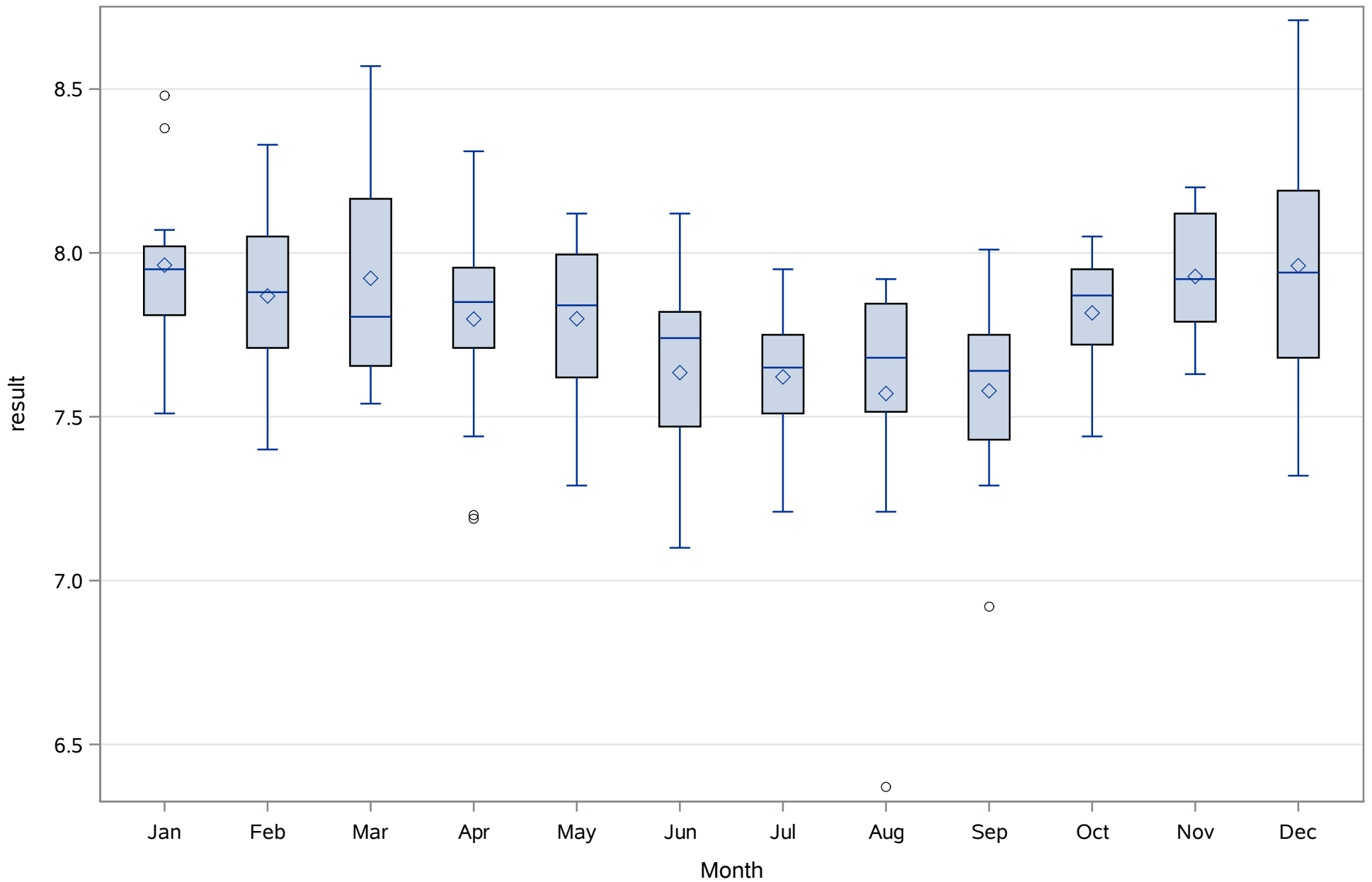
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 4
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	JUN1997	APR2017	216	4.2%	1.9%	2.3%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	2.2%	0.0%	2.2%
Color (Dissolved)	PCU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Color (Total)	PCU	MAY1999	AUG2014	184	5.4%	1.1%	3.3%
Depth (Total)	Meters	JUN1997	APR2017	217	0.0%	0.5%	0.5%
Depth, bottom (Total)	Meters	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	APR2017	215	0.5%	1.9%	0.5%
Iron (Dissolved)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	182	3.3%	1.1%	2.2%
Magnesium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	205	0.0%	1.0%	1.5%
Orthophosphate (P) (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	205	0.0%	1.0%	1.5%
Potassium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Salinity (Total)	ppth	JUN1997	APR2017	217	0.0%	1.8%	0.5%
Secchi-vertical (Total)	Meters	NOV1997	APR2017	57	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	APR2017	216	0.0%	1.9%	0.0%
Turbidity (Total)	NTU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
pH (Total)	SU	DEC2000	APR2017	153	2.0%	1.3%	2.0%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	2.82986111	Sum Observations	611.25
Std Deviation	2.75189178	Variance	7.57290835
Skewness	3.67729261	Kurtosis	20.4001213
Uncorrected SS	3357.9279	Corrected SS	1628.1753
Coeff Variation	97.2447646	Std Error Mean	0.18724252

Basic Statistical Measures			
Location		Variability	
Mean	2.829861	Std Deviation	2.75189
Median	2.000000	Variance	7.57291
Mode	1.000000	Range	23.90000
		Interquartile Range	2.25000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.11335	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.30
99%	14.10
95%	7.13
90%	5.78
75% Q3	3.50
50% Median	2.00
25% Q1	1.25
10%	0.92
5%	0.70

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.46
0% Min	0.40

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	44	11.5	74
0.41	140	12.8	12
0.46	82	14.1	17
0.50	68	15.7	16
0.51	91	24.3	13

Chassahowitzka River - Fixed Station

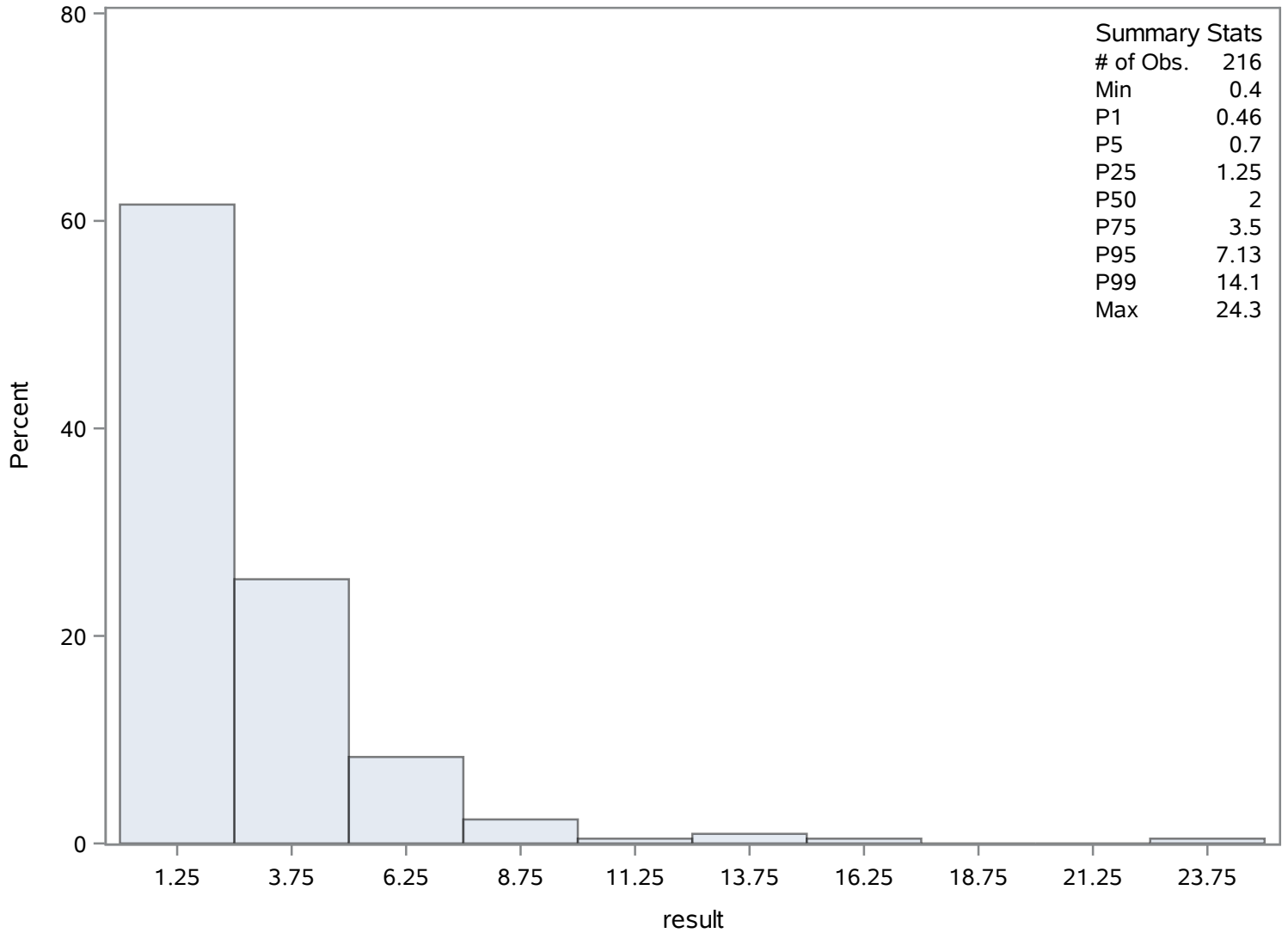
Source: COAST

Chassahowitzka Hernando 5

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	2.24241758	Sum Observations	204.06
Std Deviation	1.63677416	Variance	2.67902965
Skewness	1.44619598	Kurtosis	2.27009961
Uncorrected SS	698.7004	Corrected SS	241.112668
Coeff Variation	72.9914968	Std Error Mean	0.17158055

Basic Statistical Measures			
Location		Variability	
Mean	2.242418	Std Deviation	1.63677
Median	1.680000	Variance	2.67903
Mode	0.890000	Range	8.26000
		Interquartile Range	2.01000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.06918	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.60
99%	8.60
95%	5.36
90%	4.47
75% Q3	3.02
50% Median	1.68
25% Q1	1.01
10%	0.78
5%	0.56
1%	0.34
0% Min	0.34

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.34	241	5.36	259
0.45	254	5.59	274
0.45	243	6.48	260
0.45	240	7.26	247
0.56	264	8.60	284

Chassahowitzka River - Fixed Station

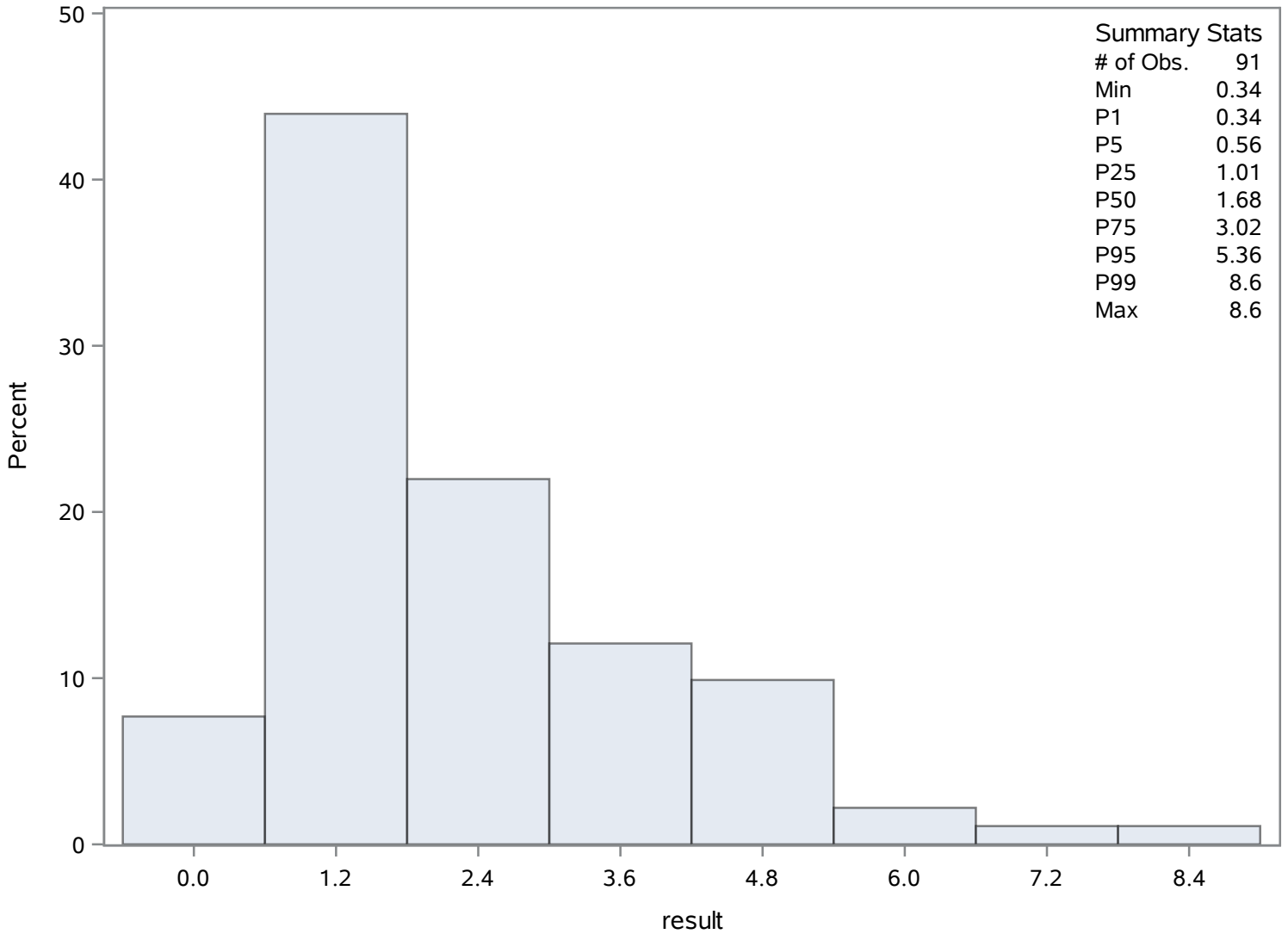
Source: COAST

Chassahowitzka Hernando 5

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	25.923913	Sum Observations	4770
Std Deviation	13.8703865	Variance	192.387622
Skewness	2.36086852	Kurtosis	7.30861763
Uncorrected SS	158864	Corrected SS	35206.9348
Coeff Variation	53.5042163	Std Error Mean	1.02253846

Basic Statistical Measures			
Location		Variability	
Mean	25.92391	Std Deviation	13.87039
Median	22.00000	Variance	192.38762
Mode	15.00000	Range	85.00000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.35251	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	95
99%	94
95%	52
90%	40
75% Q3	30
50% Median	22
25% Q1	17
10%	15
5%	13
1%	12
0% Min	10

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	328	68	359
12	399	70	467
12	341	78	346
12	340	94	372
12	331	95	358

Chassahowitzka River - Fixed Station

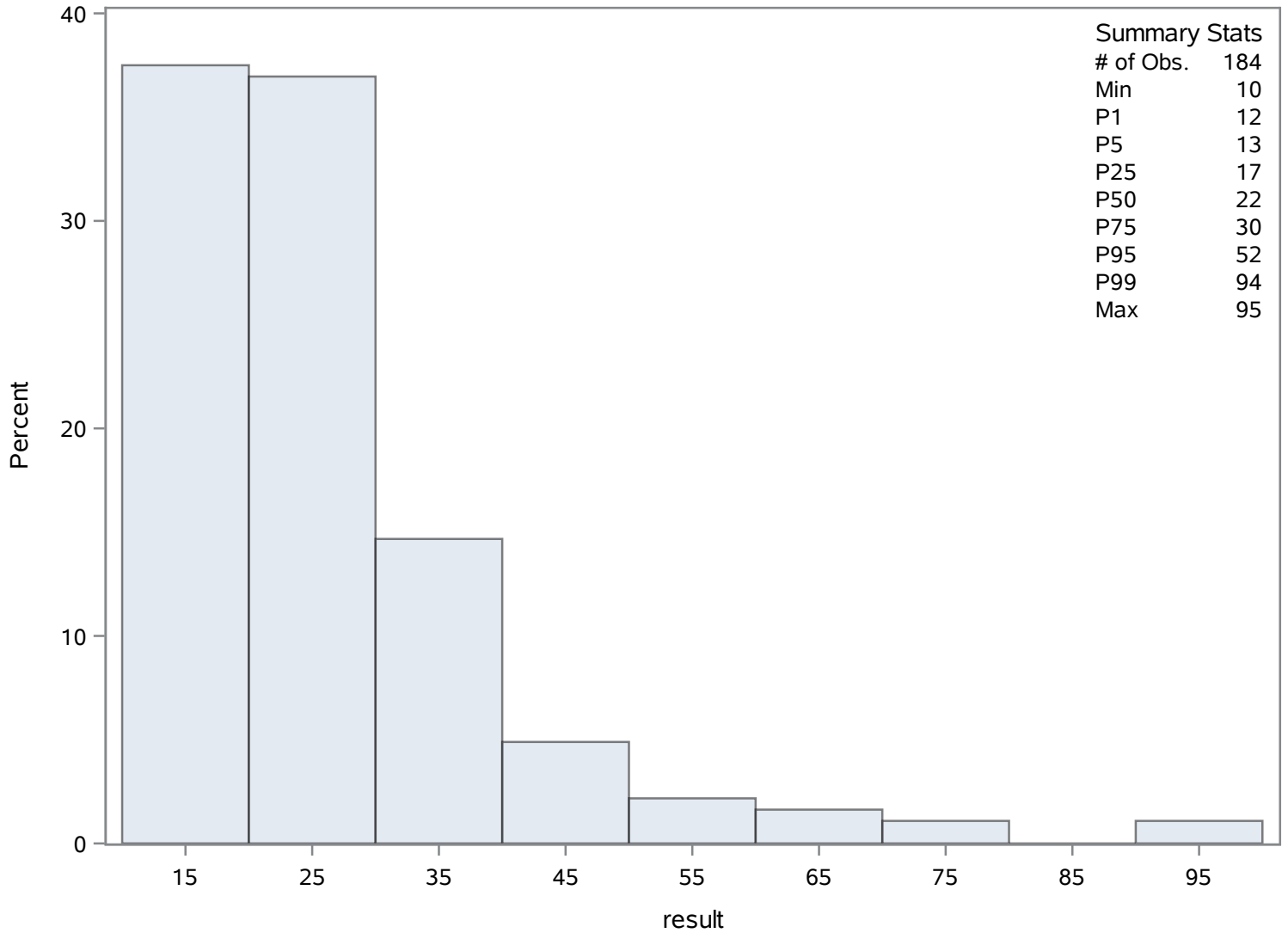
Source: COAST

Chassahowitzka Hernando 5

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	1.63410138	Sum Observations	354.6
Std Deviation	0.47183473	Variance	0.22262801
Skewness	-0.039242	Kurtosis	1.2256425
Uncorrected SS	627.54	Corrected SS	48.0876498
Coeff Variation	28.8742627	Std Error Mean	0.03203023

Basic Statistical Measures			
Location		Variability	
Mean	1.634101	Std Deviation	0.47183
Median	1.600000	Variance	0.22263
Mode	1.500000	Range	3.00000
		Interquartile Range	0.60000

Note: The mode displayed is the smallest of 2 modes with a count of 23.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	51.01748	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.5
99%	2.8
95%	2.4
90%	2.1
75% Q3	2.0
50% Median	1.6
25% Q1	1.4
10%	1.1
5%	0.6

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.5
0% Min	0.5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	708	2.5	661
0.5	707	2.8	494
0.5	706	2.8	507
0.5	705	2.8	508
0.5	704	3.5	501

Chassahowitzka River - Fixed Station

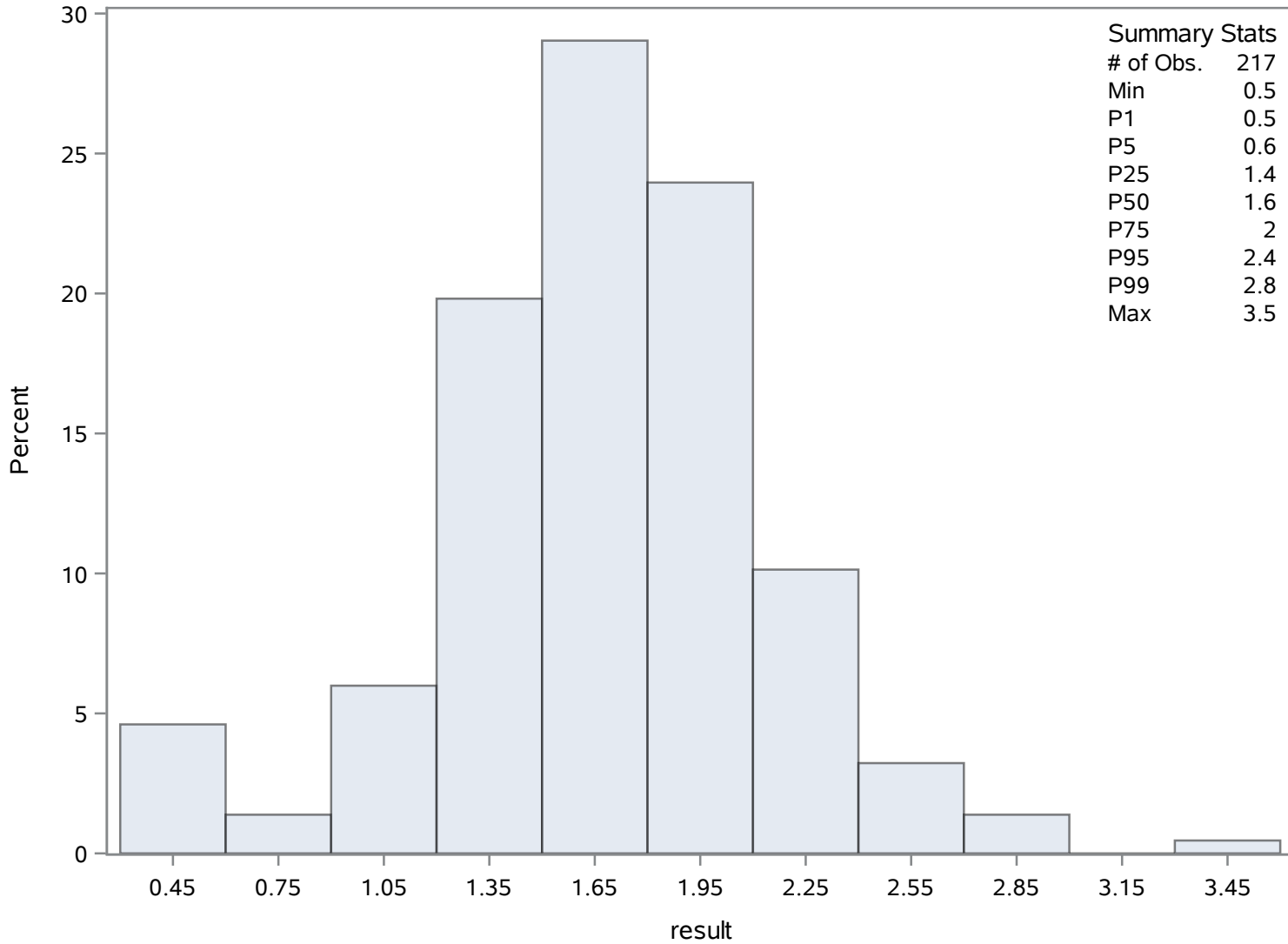
Source: COAST

Chassahowitzka Hernando 5

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	6.7964186	Sum Observations	1461.23
Std Deviation	1.5194895	Variance	2.30884833
Skewness	0.34313254	Kurtosis	-0.2984917
Uncorrected SS	10425.2243	Corrected SS	494.093542
Coeff Variation	22.3572088	Std Error Mean	0.10362832

Basic Statistical Measures			
Location		Variability	
Mean	6.796419	Std Deviation	1.51949
Median	6.710000	Variance	2.30885
Mode	7.370000	Range	7.70000
		Interquartile Range	2.10000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	65.58457	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.40
99%	10.16
95%	9.70
90%	8.70
75% Q3	7.80
50% Median	6.71
25% Q1	5.70
10%	4.93
5%	4.42

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.80
0% Min	3.70

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.70	746	10.10	798
3.73	865	10.16	775
3.80	830	10.16	799
4.10	733	10.44	871
4.13	854	11.40	750

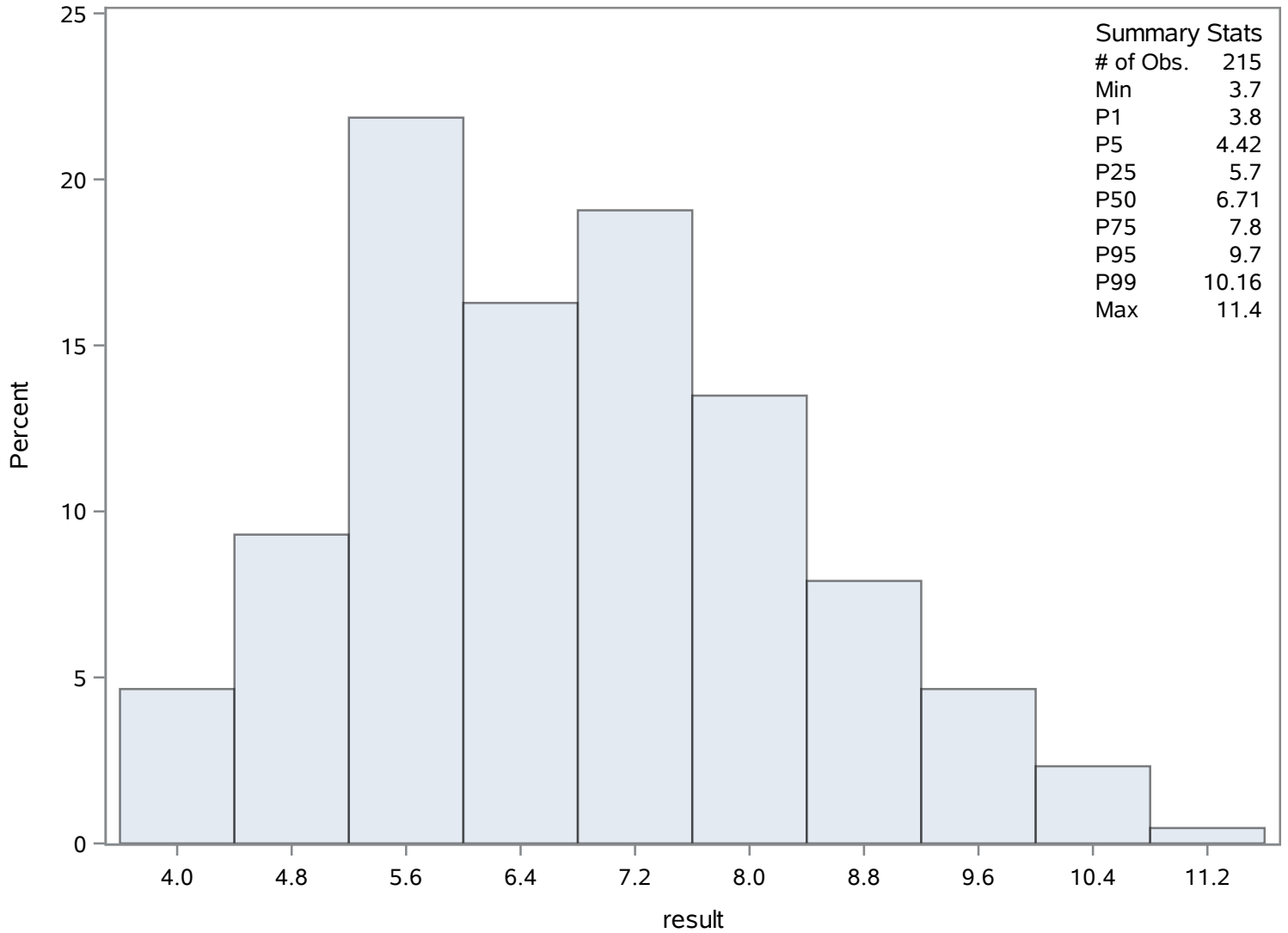
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 5 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	182	Sum Weights	182
Mean	1.54415934	Sum Observations	281.037
Std Deviation	1.15498553	Variance	1.33399157
Skewness	5.55814225	Kurtosis	37.1396755
Uncorrected SS	675.418383	Corrected SS	241.452474
Coeff Variation	74.7970432	Std Error Mean	0.08561322

Basic Statistical Measures			
Location		Variability	
Mean	1.544159	Std Deviation	1.15499
Median	1.364500	Variance	1.33399
Mode	1.057000	Range	10.33600
		Interquartile Range	0.62400

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.03646	Pr > t 	<.0001
Sign	M	91	Pr >= M 	<.0001
Signed Rank	S	8326.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.7520
99%	9.5110
95%	2.3580
90%	2.0410
75% Q3	1.6810
50% Median	1.3645
25% Q1	1.0570
10%	0.8370
5%	0.7610

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

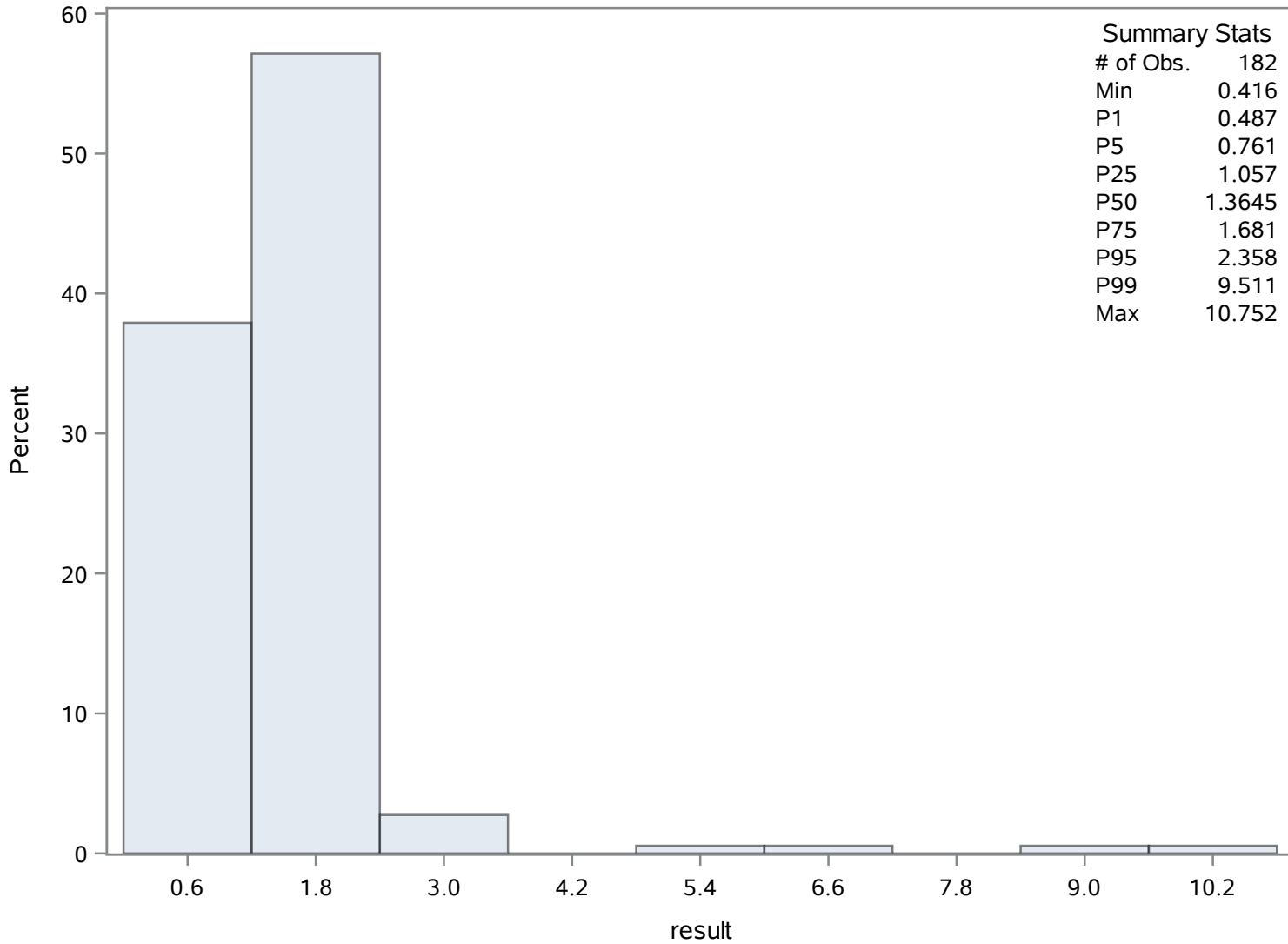
Quantiles (Definition 5)	
Level	Quantile
1%	0.4870
0% Min	0.4160

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.416	937	3.510	929
0.487	1039	5.959	955
0.567	1005	7.004	1014
0.622	1103	9.511	973
0.692	1068	10.752	972

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.37555556	Sum Observations	3.38
Std Deviation	0.07264832	Variance	0.00527778
Skewness	0.0258843	Kurtosis	0.14558132
Uncorrected SS	1.3116	Corrected SS	0.04222222
Coeff Variation	19.3442261	Std Error Mean	0.02421611

Basic Statistical Measures			
Location		Variability	
Mean	0.375556	Std Deviation	0.07265
Median	0.370000	Variance	0.00528
Mode	0.360000	Range	0.24000
		Interquartile Range	0.05000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.5085	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.50
99%	0.50
95%	0.50
90%	0.50
75% Q3	0.41
50% Median	0.37
25% Q1	0.36
10%	0.26
5%	0.26
1%	0.26
0% Min	0.26

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.26	1109	0.37	1106
0.29	1113	0.39	1114
0.36	1110	0.41	1107
0.36	1108	0.44	1112
0.37	1106	0.50	1111

Chassahowitzka River - Fixed Station

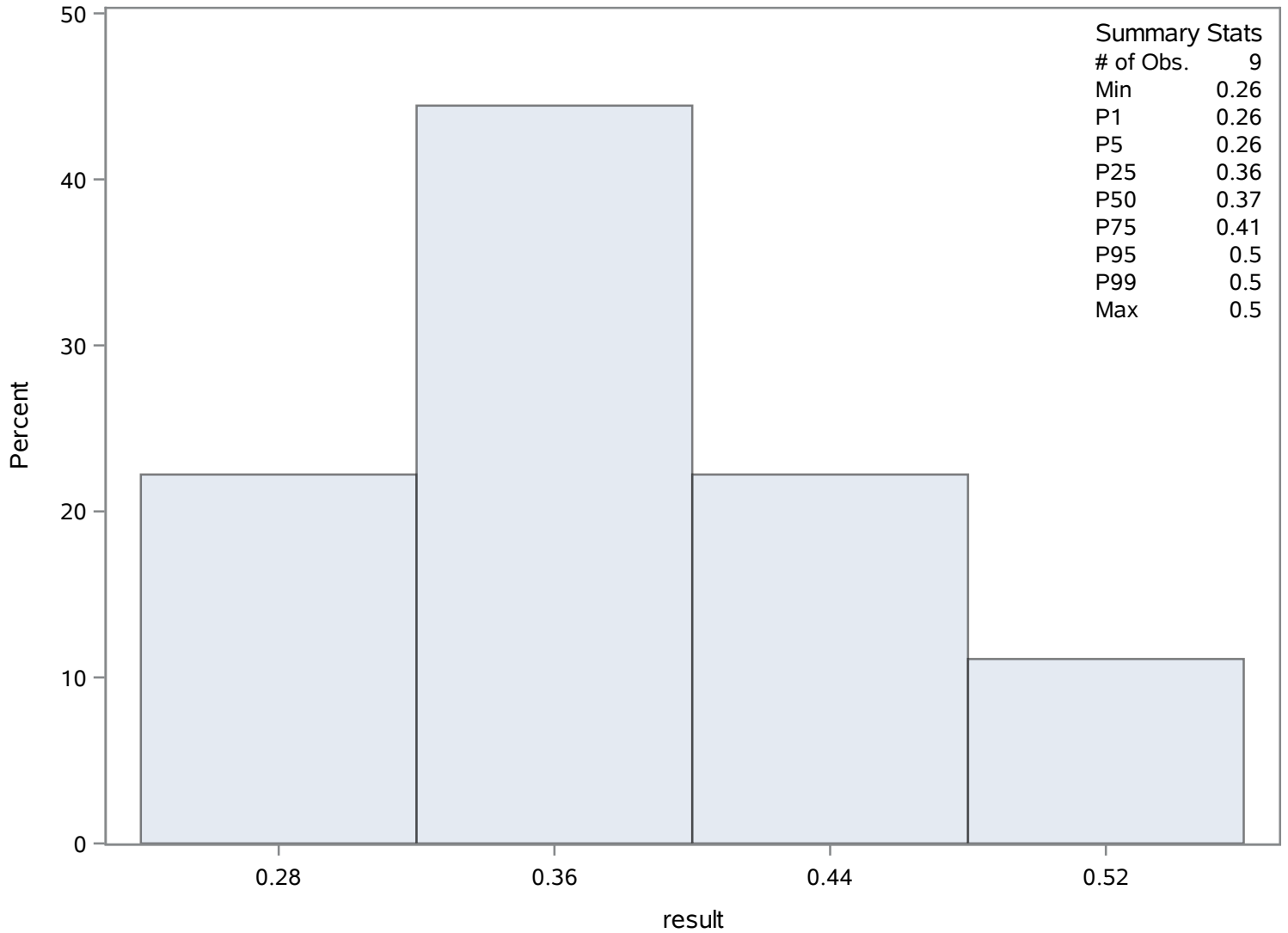
Source: COAST

Chassahowitzka Hernando 5

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	411.414634	Sum Observations	84340
Std Deviation	181.851719	Variance	33070.0478
Skewness	1.42694008	Kurtosis	4.09777364
Uncorrected SS	41445000	Corrected SS	6746289.76
Coeff Variation	44.201568	Std Error Mean	12.701075

Basic Statistical Measures			
Location		Variability	
Mean	411.4146	Std Deviation	181.85172
Median	400.0000	Variance	33070
Mode	270.0000	Range	1190
		Interquartile Range	240.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.39211	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1290
99%	990
95%	700
90%	640
75% Q3	510
50% Median	400
25% Q1	270
10%	210
5%	190
1%	160
0% Min	100

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
100	1241	770	1188
150	1311	980	1131
160	1312	990	1130
160	1205	1250	1128
160	1194	1290	1127

Chassahowitzka River - Fixed Station

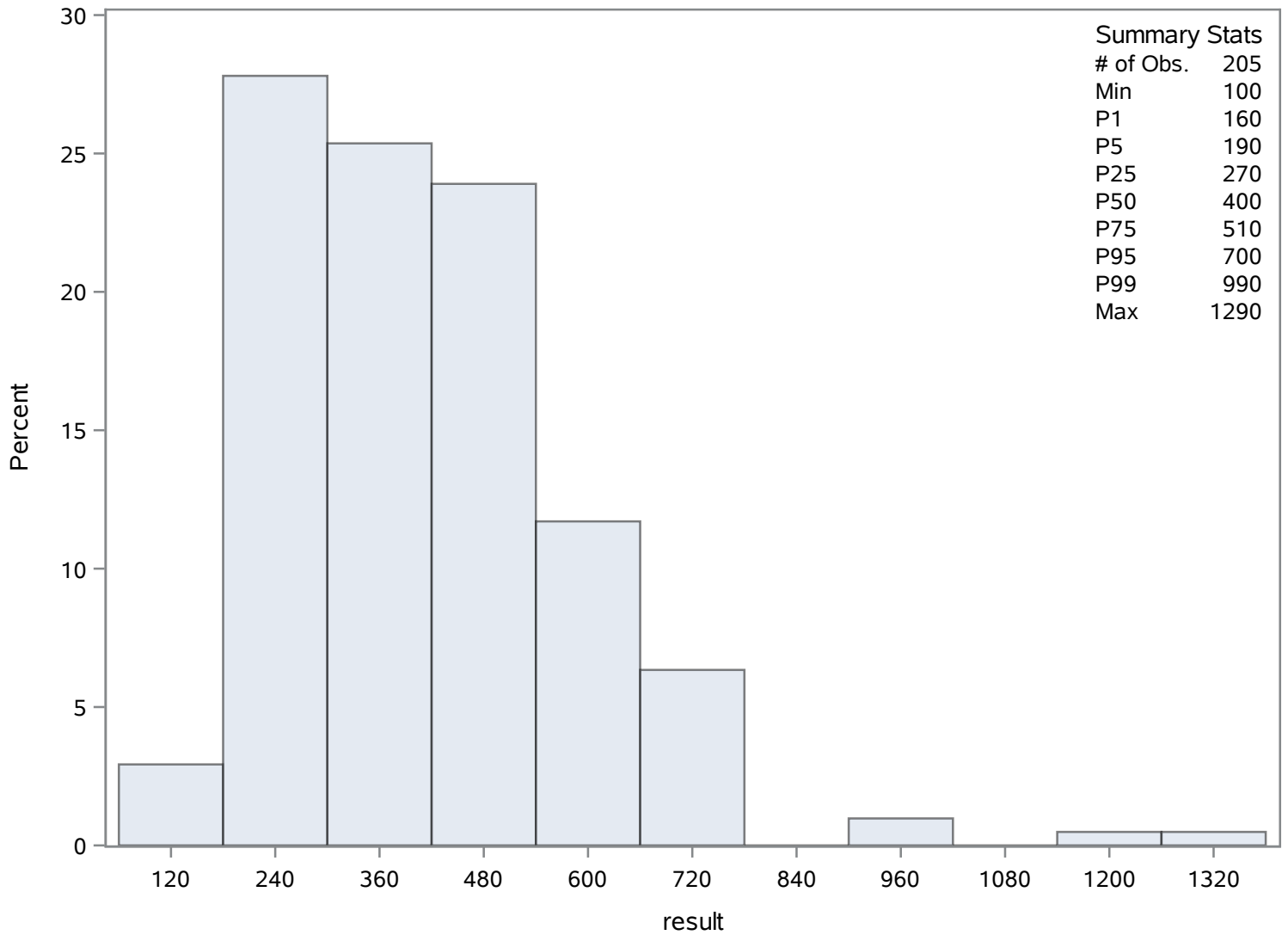
Source: COAST

Chassahowitzka Hernando 5

Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.012	Sum Observations	0.108
Std Deviation	0.002	Variance	4E-6
Skewness	-0.6026786	Kurtosis	-1.0223214
Uncorrected SS	0.001328	Corrected SS	0.000032
Coeff Variation	16.6666667	Std Error Mean	0.00066667

Basic Statistical Measures			
Location		Variability	
Mean	0.012000	Std Deviation	0.00200
Median	0.012000	Variance	4E-6
Mode	0.014000	Range	0.00500
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.014
99%	0.014
95%	0.014
90%	0.014
75% Q3	0.014
50% Median	0.012
25% Q1	0.011
10%	0.009
5%	0.009
1%	0.009
0% Min	0.009

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.009	1327	0.012	1326
0.009	1323	0.013	1328
0.011	1322	0.014	1320
0.012	1326	0.014	1321
0.012	1324	0.014	1325

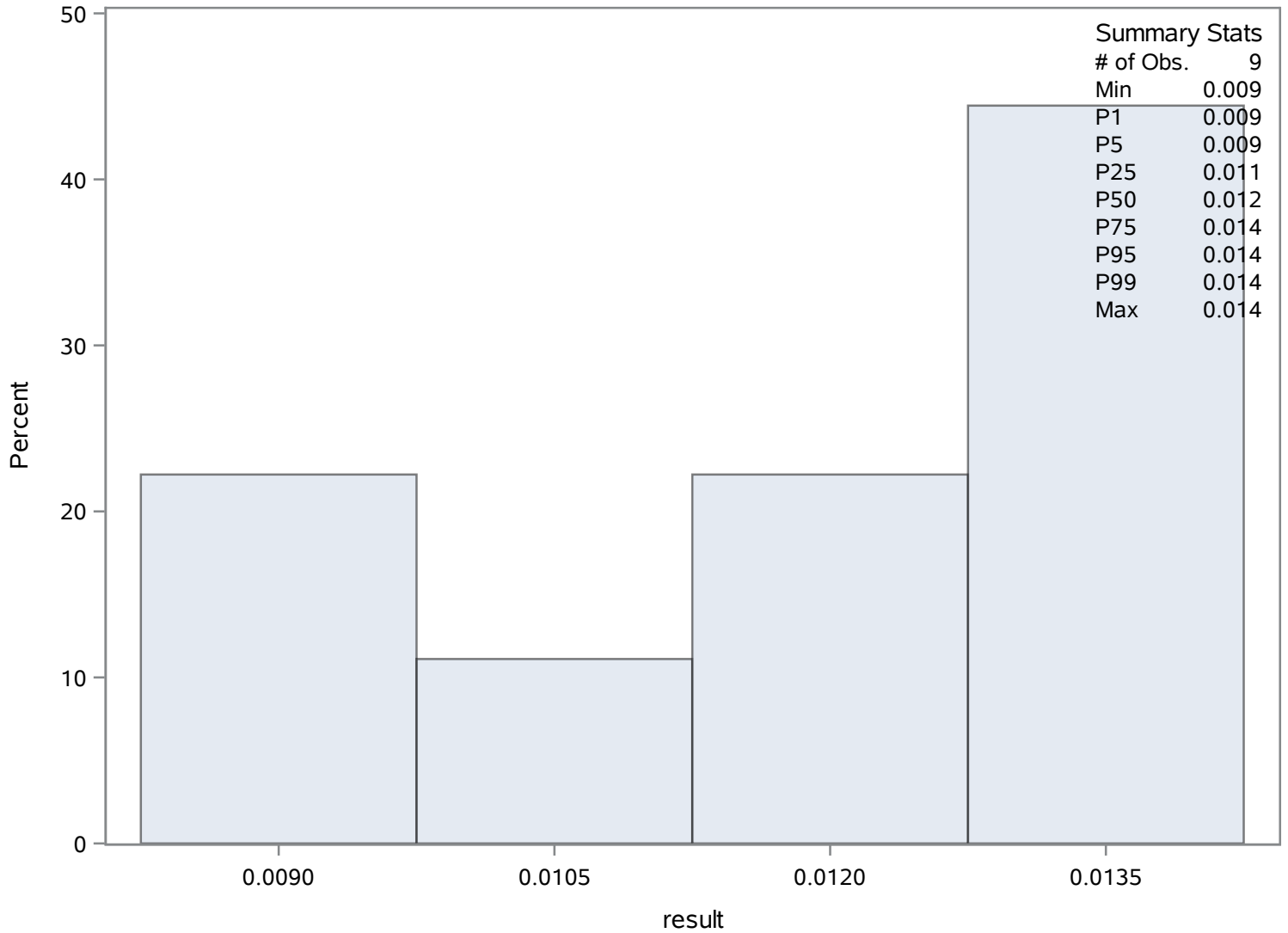
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 5 Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	12.5170732	Sum Observations	2566
Std Deviation	5.54888712	Variance	30.7901483
Skewness	1.43474406	Kurtosis	4.02017833
Uncorrected SS	38400	Corrected SS	6281.19024
Coeff Variation	44.3305479	Std Error Mean	0.38755109

Basic Statistical Measures			
Location		Variability	
Mean	12.51707	Std Deviation	5.54889
Median	12.00000	Variance	30.79015
Mode	9.00000	Range	36.00000
		Interquartile Range	6.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.29787	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	39
99%	31
95%	22
90%	19
75% Q3	15
50% Median	12
25% Q1	9
10%	6
5%	6
1%	4
0% Min	3

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	1529	26	1345
4	1500	26	1390
4	1459	31	1340
4	1455	38	1341
5	1497	39	1342

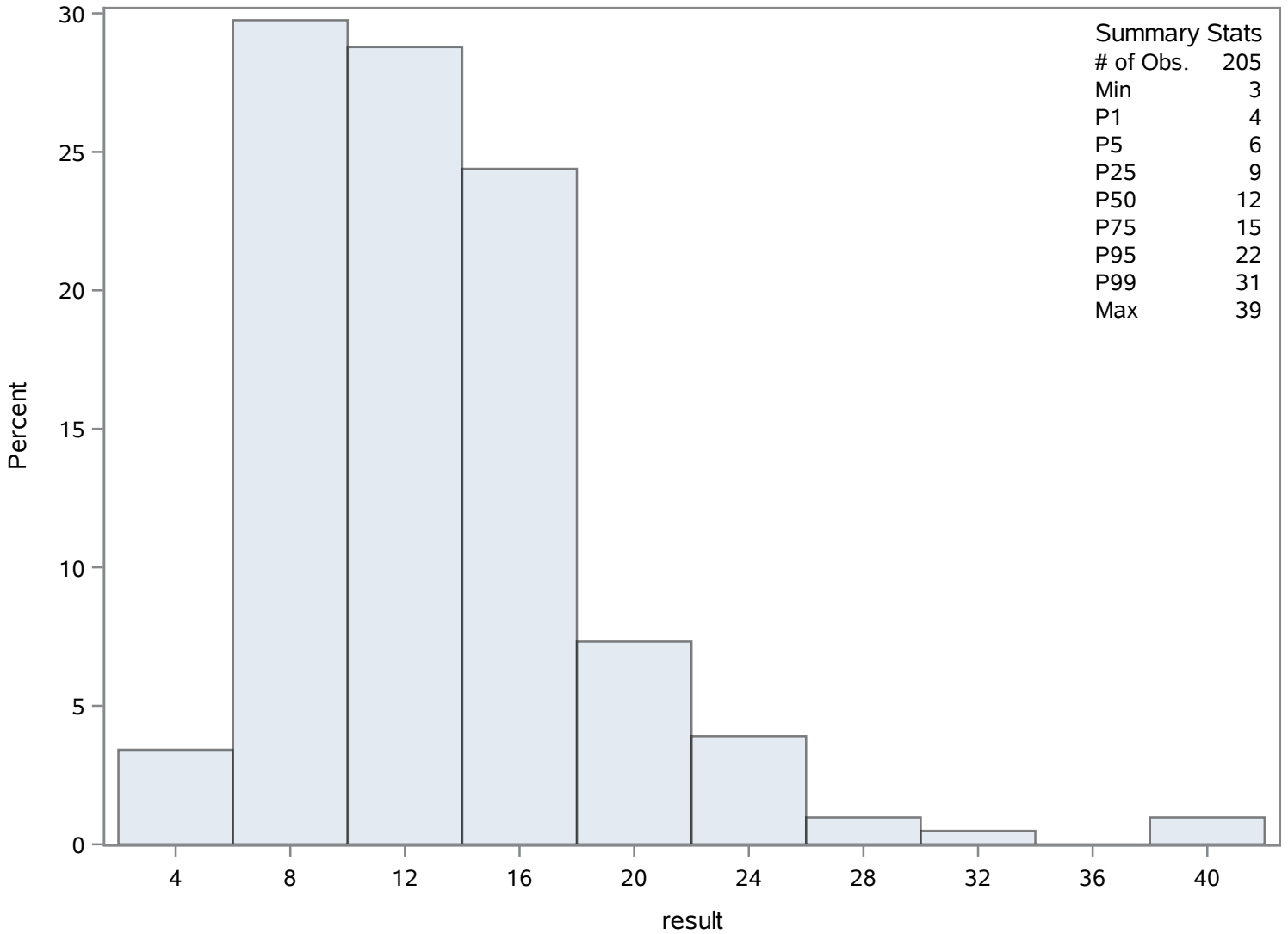
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 5 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	15.6740553	Sum Observations	3401.27
Std Deviation	4.84106012	Variance	23.4358631
Skewness	0.15168872	Kurtosis	0.05049999
Uncorrected SS	58373.8405	Corrected SS	5062.14643
Coeff Variation	30.8858175	Std Error Mean	0.32863257

Basic Statistical Measures			
Location		Variability	
Mean	15.67406	Std Deviation	4.84106
Median	15.76000	Variance	23.43586
Mode	8.00000	Range	27.35000
		Interquartile Range	6.75000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	47.69477	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.20
99%	26.90
95%	23.60
90%	22.00
75% Q3	18.85
50% Median	15.76
25% Q1	12.10
10%	9.64
5%	7.90

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	5.00
0% Min	3.85

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.85	1608	25.00	1537
4.84	1607	26.73	1582
5.00	1541	26.90	1593
5.17	1631	29.44	1594
5.79	1700	31.20	1558

Chassahowitzka River - Fixed Station

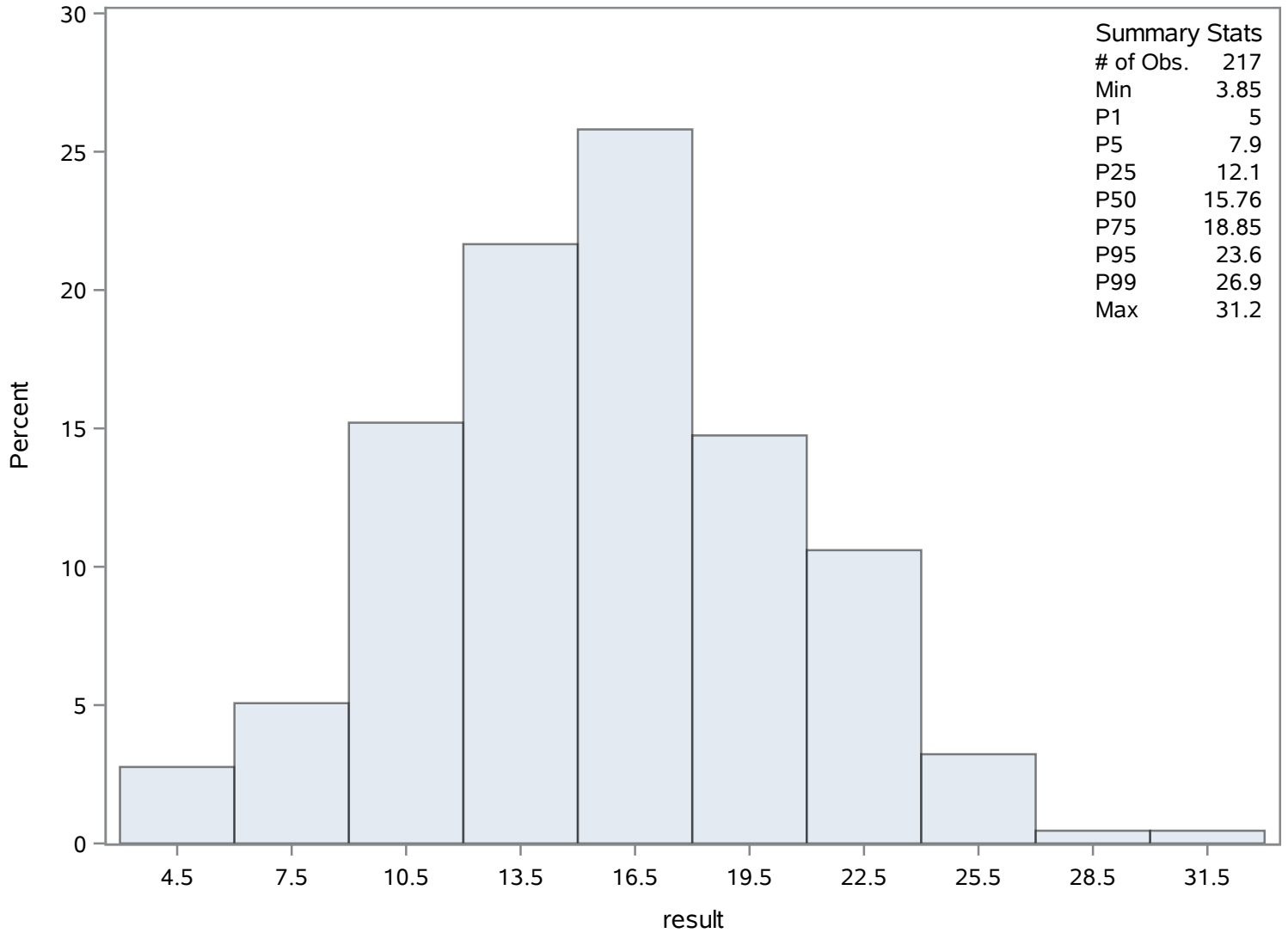
Source: COAST

Chassahowitzka Hernando 5

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	57	Sum Weights	57
Mean	1.44350877	Sum Observations	82.28
Std Deviation	0.35831695	Variance	0.12839104
Skewness	-0.0417486	Kurtosis	-0.393832
Uncorrected SS	125.9618	Corrected SS	7.18989825
Coeff Variation	24.8226379	Std Error Mean	0.04746024

Basic Statistical Measures			
Location		Variability	
Mean	1.443509	Std Deviation	0.35832
Median	1.500000	Variance	0.12839
Mode	1.500000	Range	1.60000
		Interquartile Range	0.52000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	30.41512	Pr > t 	<.0001
Sign	M	28.5	Pr >= M 	<.0001
Signed Rank	S	826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.30
99%	2.30
95%	2.00
90%	1.90
75% Q3	1.72
50% Median	1.50
25% Q1	1.20
10%	1.10
5%	0.80
1%	0.70
0% Min	0.70

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	1761	1.93	1803
0.7	1755	2.00	1760
0.8	1779	2.00	1771
0.8	1756	2.00	1796
0.9	1798	2.30	1751

Chassahowitzka River - Fixed Station

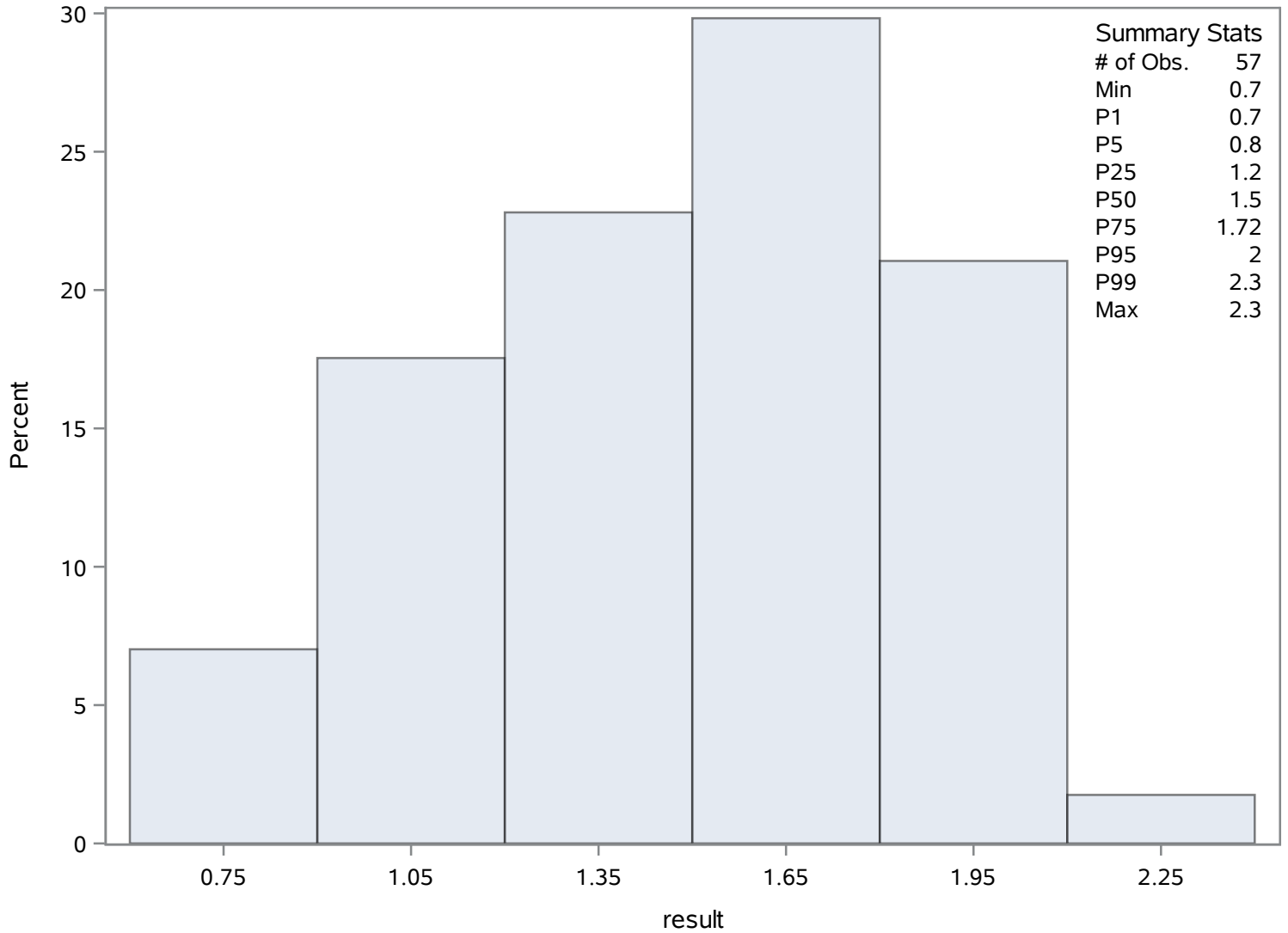
Source: COAST

Chassahowitzka Hernando 5

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	23.5269444	Sum Observations	5081.82
Std Deviation	5.80802932	Variance	33.7332046
Skewness	-0.4238629	Kurtosis	-0.8560137
Uncorrected SS	126812.336	Corrected SS	7252.63898
Coeff Variation	24.6867133	Std Error Mean	0.39518634

Basic Statistical Measures			
Location		Variability	
Mean	23.52694	Std Deviation	5.80803
Median	24.35000	Variance	33.73320
Mode	17.50000	Range	23.10000
		Interquartile Range	9.75500

Note: The mode displayed is the smallest of 15 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	59.5338	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.310
99%	31.840
95%	31.270
90%	30.460
75% Q3	28.570
50% Median	24.350
25% Q1	18.815
10%	15.700
5%	13.400

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	10.500
0% Min	9.210

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.21	1970	31.55	2013
9.99	1969	31.80	1929
10.50	1849	31.84	1928
10.89	1946	32.19	1963
11.08	1874	32.31	1868

Chassahowitzka River - Fixed Station

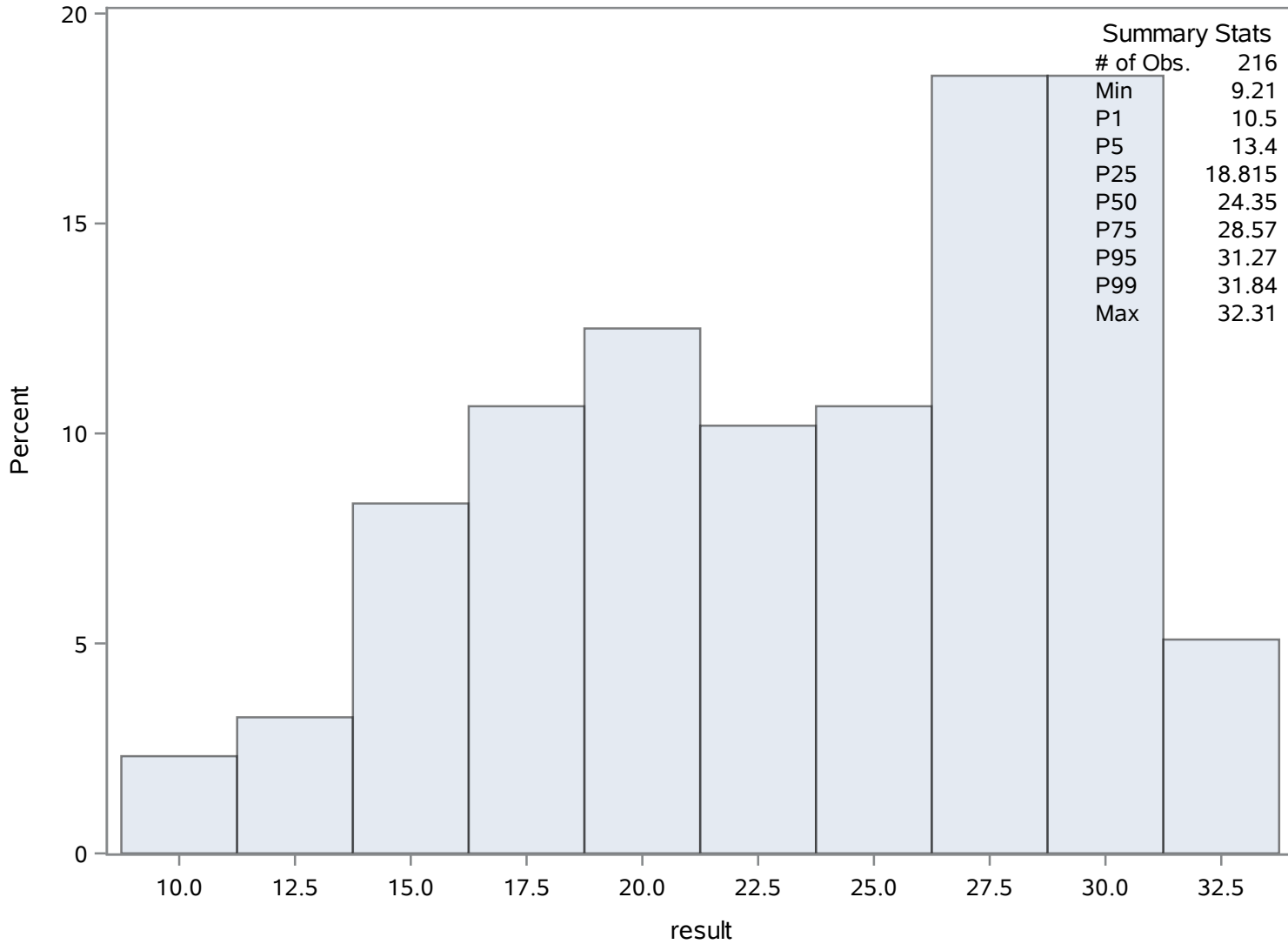
Source: COAST

Chassahowitzka Hernando 5

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	153	Sum Weights	153
Mean	7.8879085	Sum Observations	1206.85
Std Deviation	0.29129623	Variance	0.08485349
Skewness	-0.4729391	Kurtosis	3.24654943
Uncorrected SS	9532.4201	Corrected SS	12.8977307
Coeff Variation	3.69294632	Std Error Mean	0.0235499

Basic Statistical Measures			
Location		Variability	
Mean	7.887908	Std Deviation	0.29130
Median	7.900000	Variance	0.08485
Mode	7.900000	Range	2.28000
		Interquartile Range	0.29000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	334.9444	Pr > t 	<.0001
Sign	M	76.5	Pr >= M 	<.0001
Signed Rank	S	5890.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.86
99%	8.58
95%	8.31
90%	8.21
75% Q3	8.04
50% Median	7.90
25% Q1	7.75
10%	7.55
5%	7.43
1%	6.92
0% Min	6.58

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.58	2095	8.51	2025
6.92	2096	8.52	2028
7.25	2140	8.57	2027
7.30	2153	8.58	2122
7.40	2110	8.86	2024

Chassahowitzka River - Fixed Station

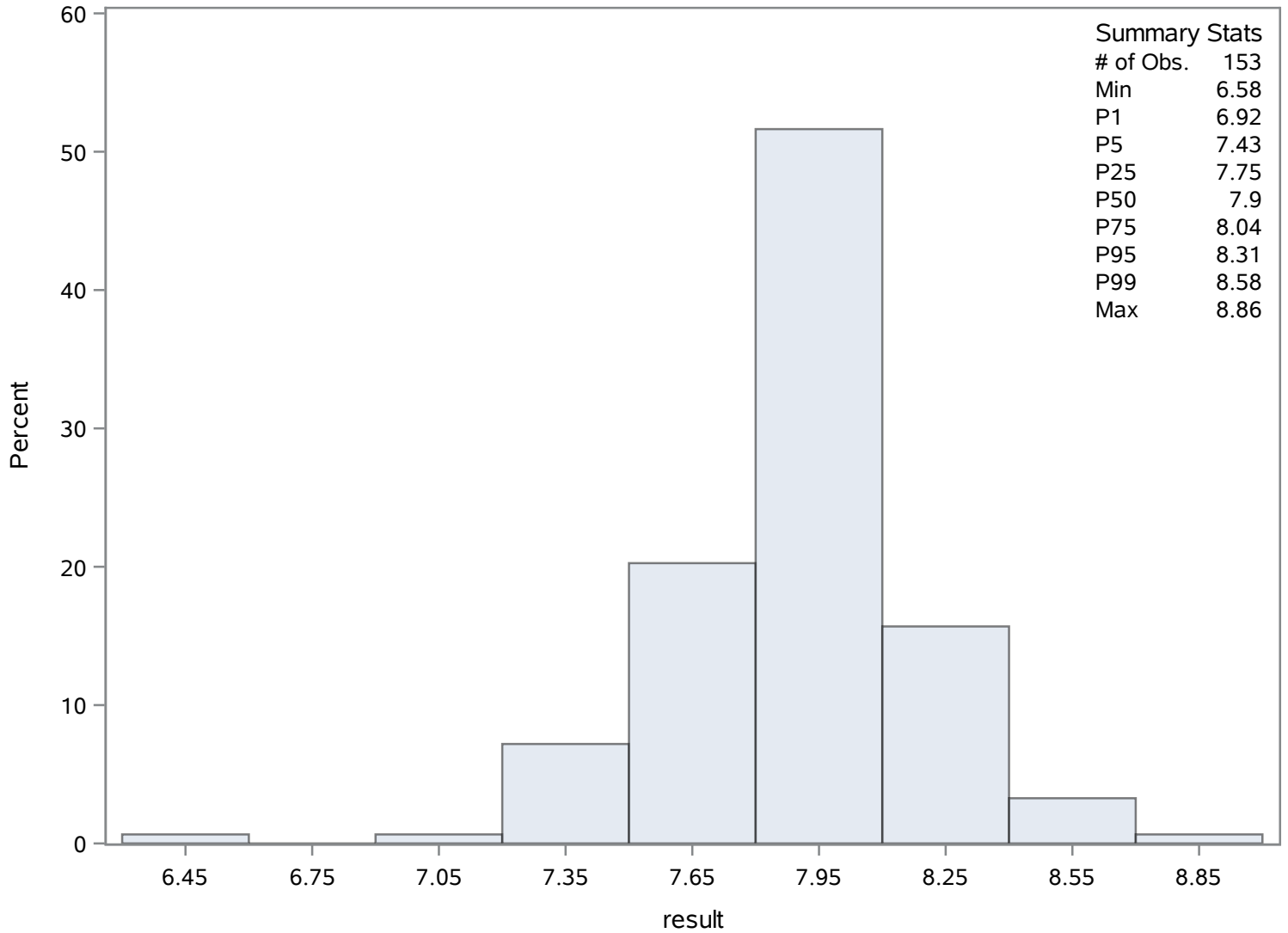
Source: COAST

Chassahowitzka Hernando 5

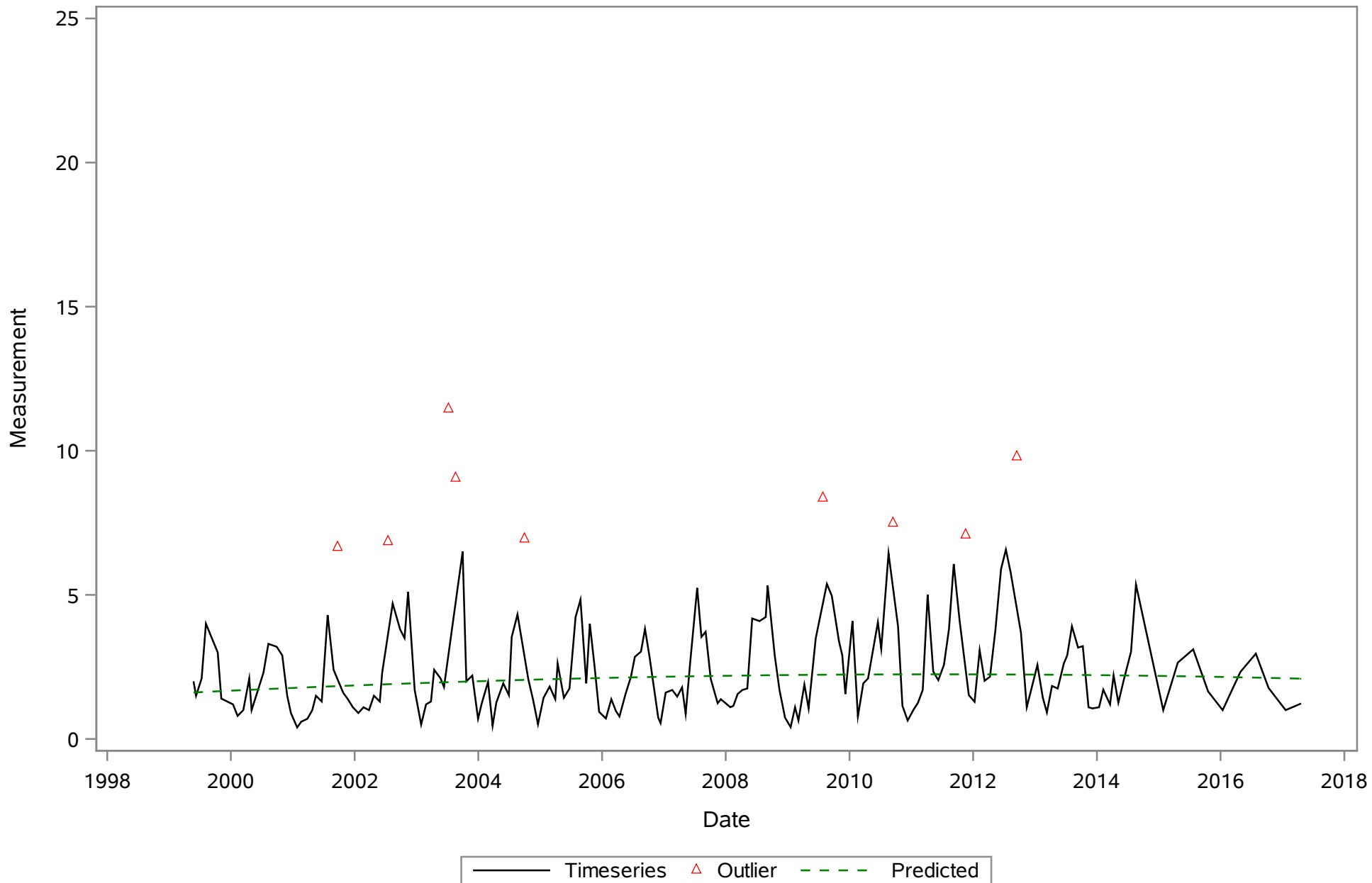
pH (Total) SU

The UNIVARIATE Procedure

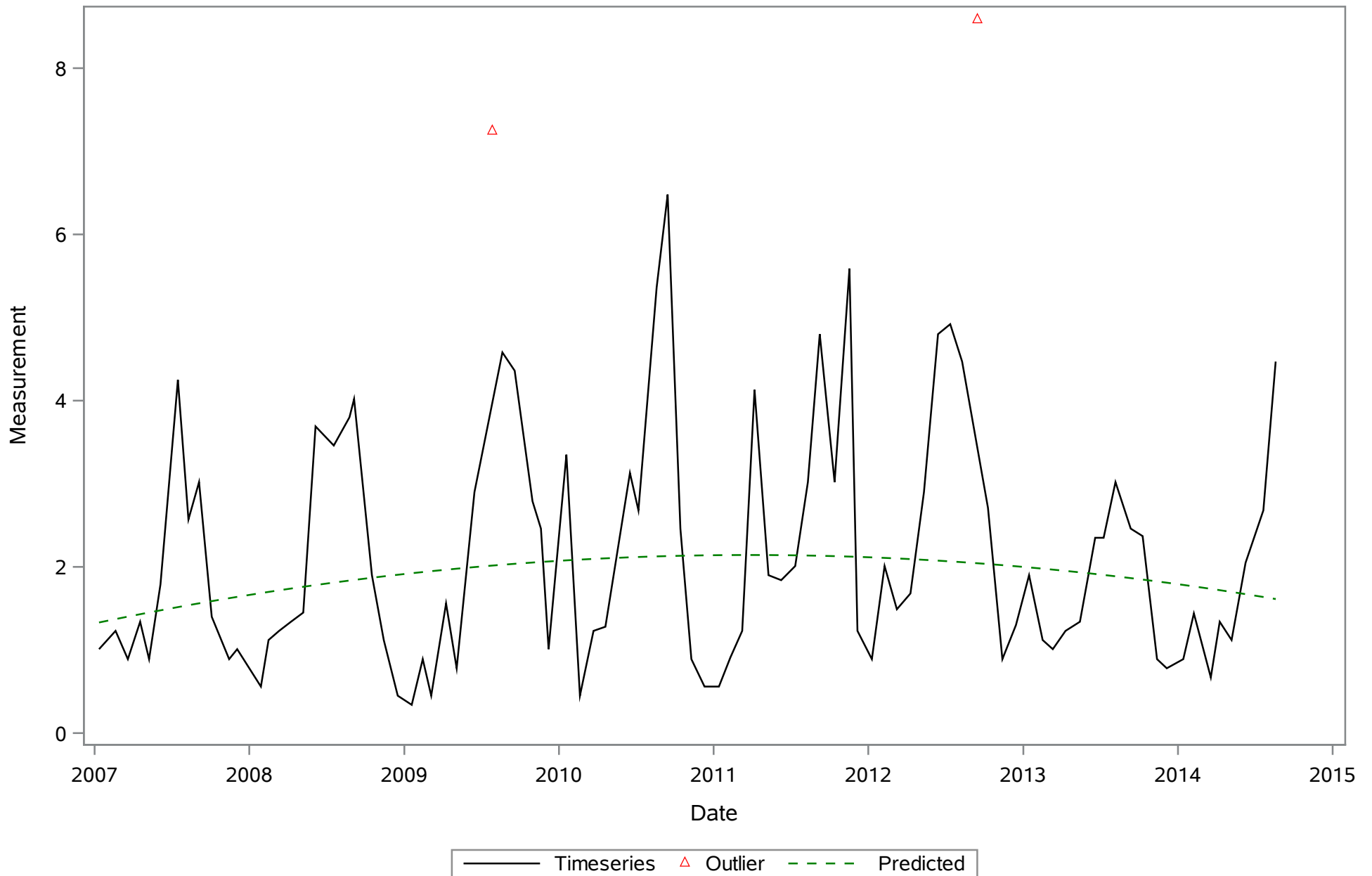
Distribution of result



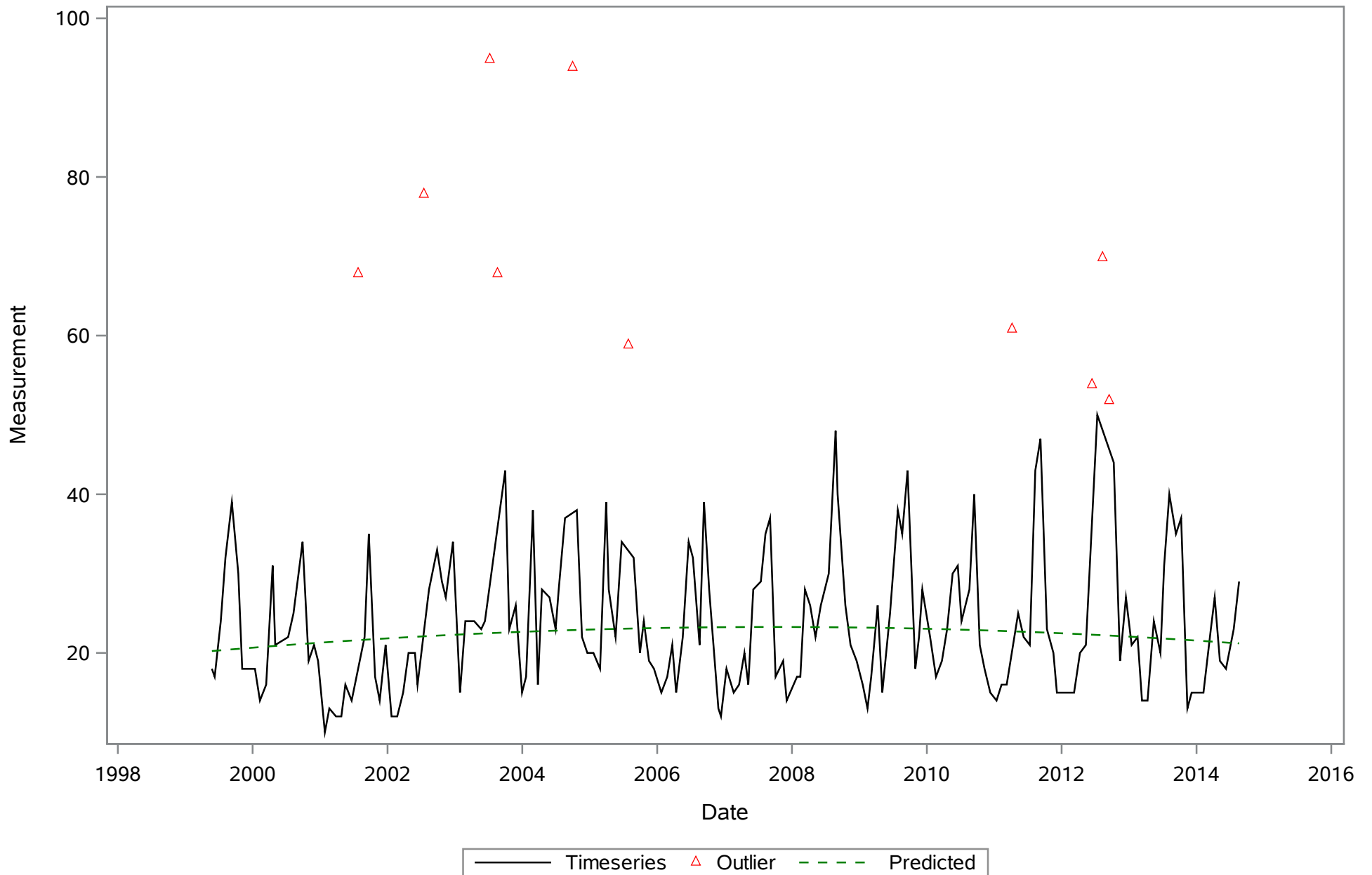
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll (Total) ug/L



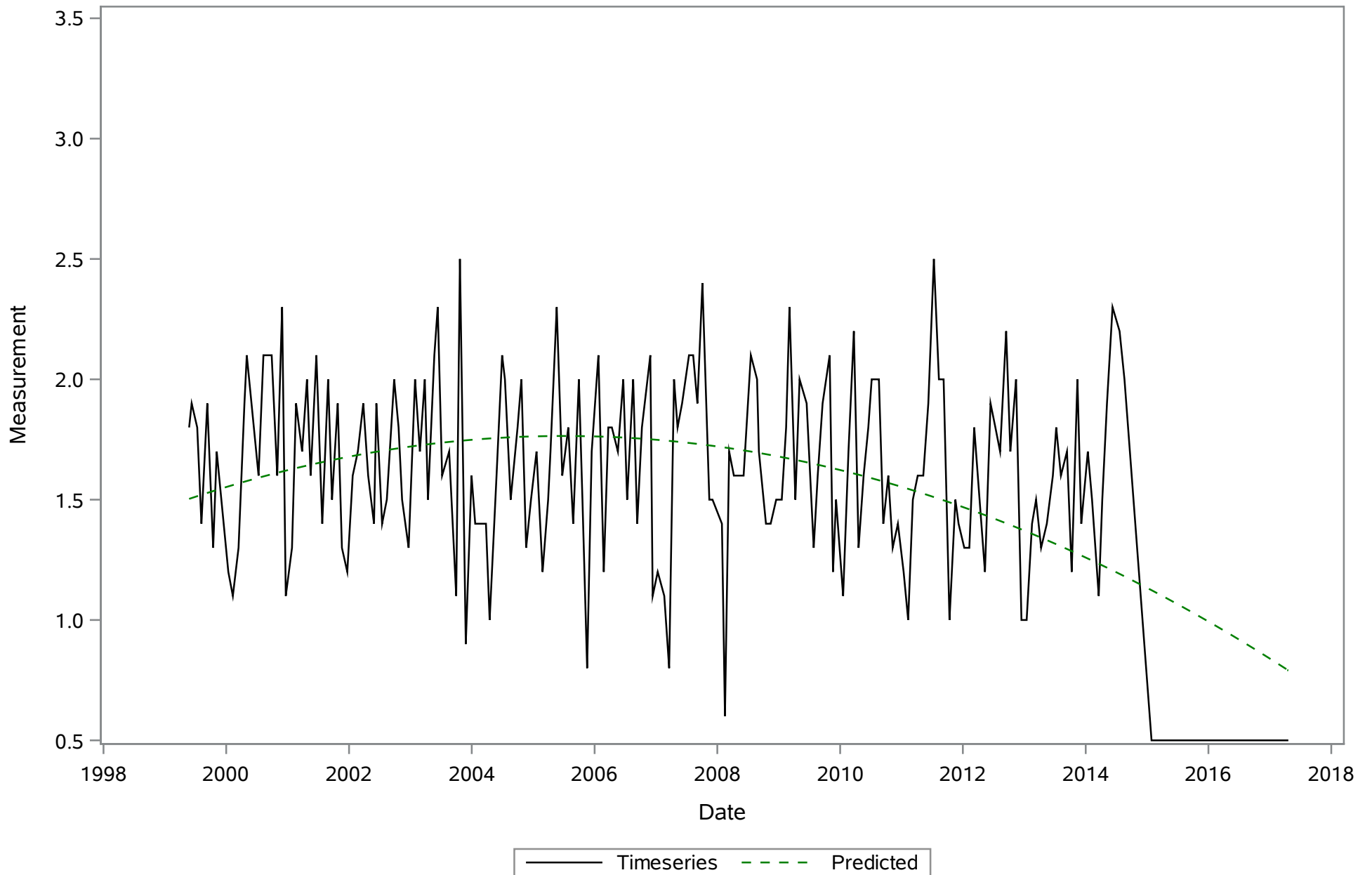
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll a (Total) ug/L



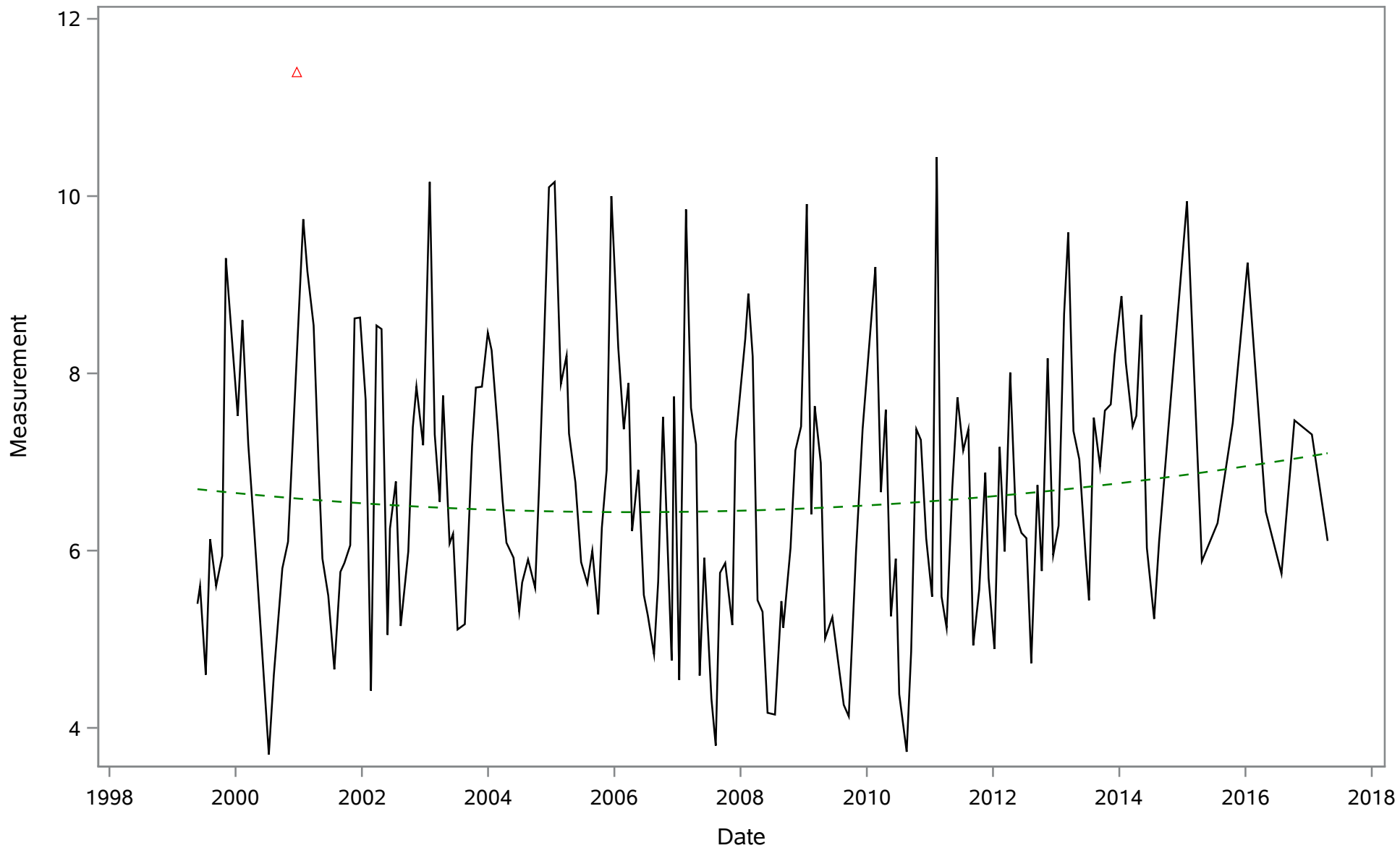
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Color (Total) PCU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Depth (Total) Meters

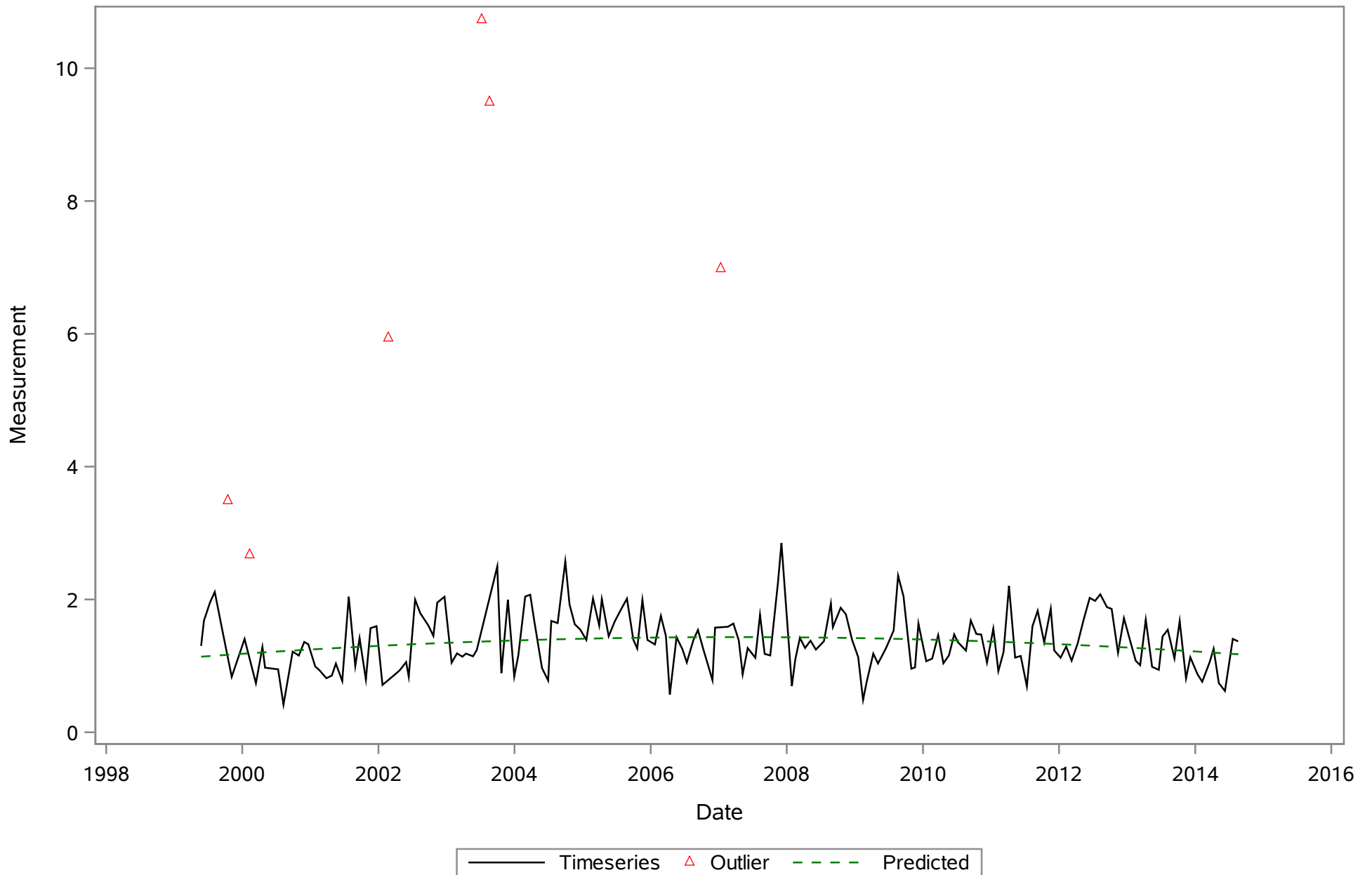


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Dissolved Oxygen (Total) mg/L



— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Light, Attenuation Coefficient Kd/m

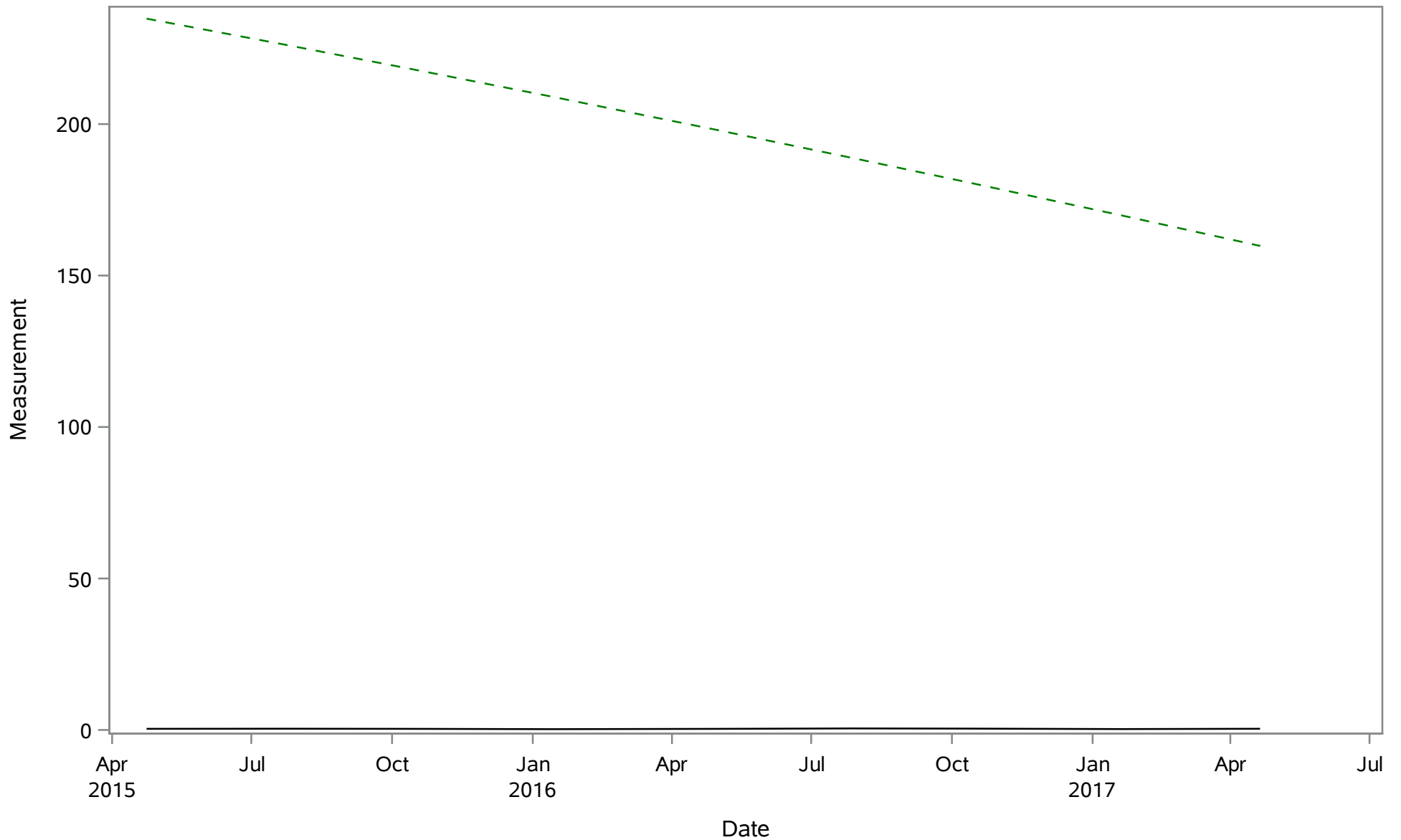


Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 5

Nitrogen- Total (Total) mg/L



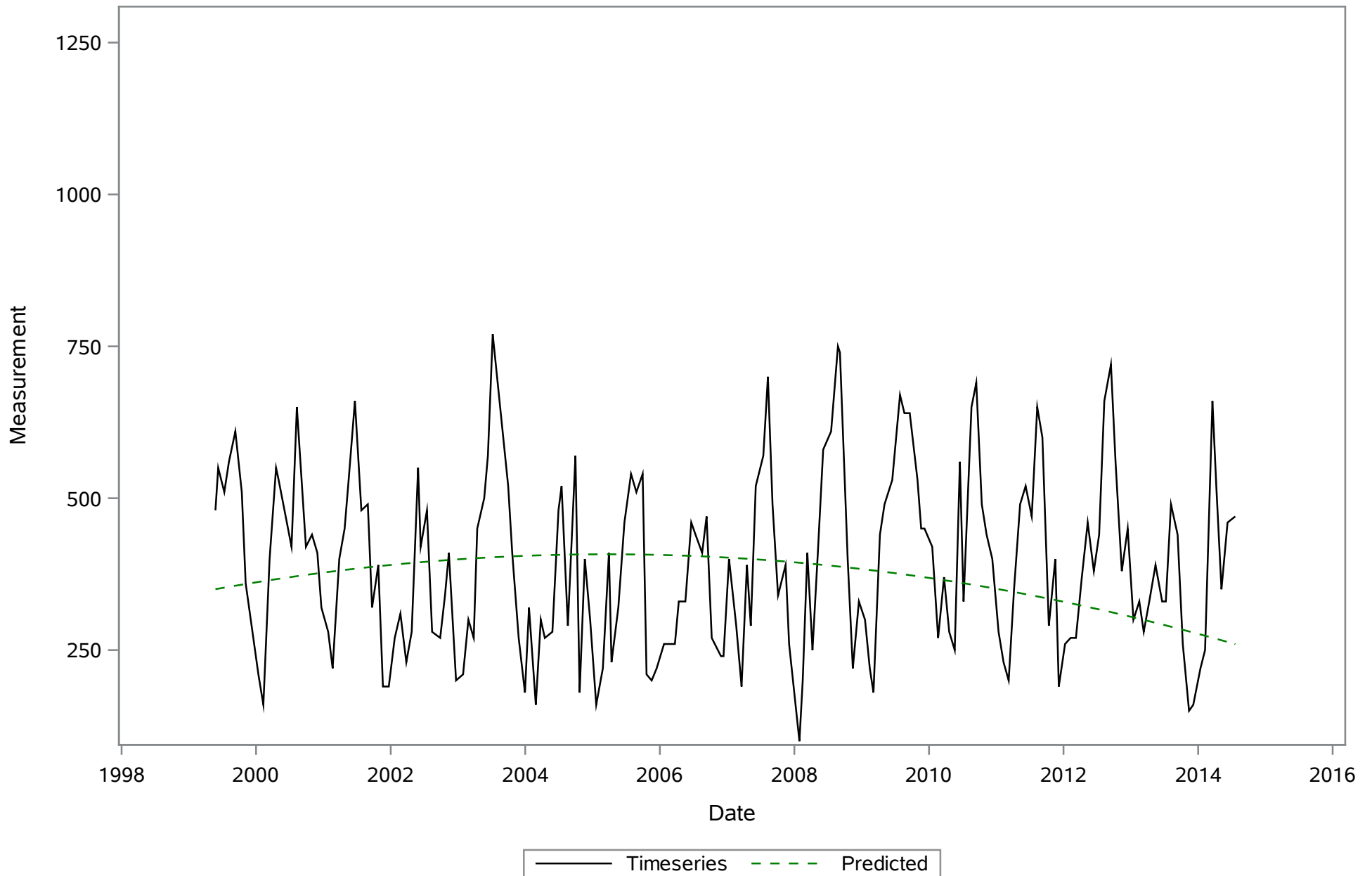
— Timeseries - - - Predicted

Chassahowitzka River - Fixed Station

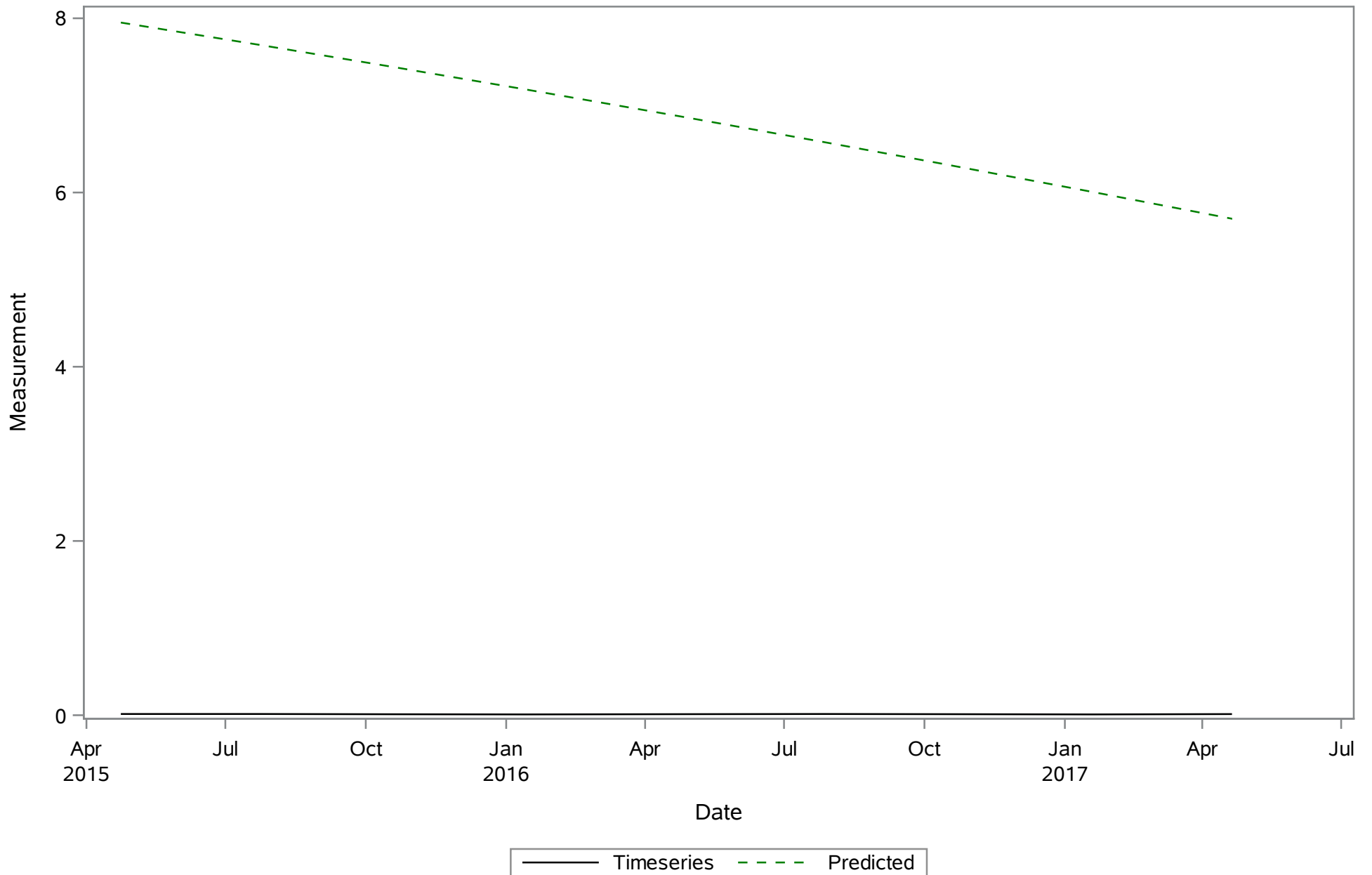
Source: COAST

Chassahowitzka Hernando 5

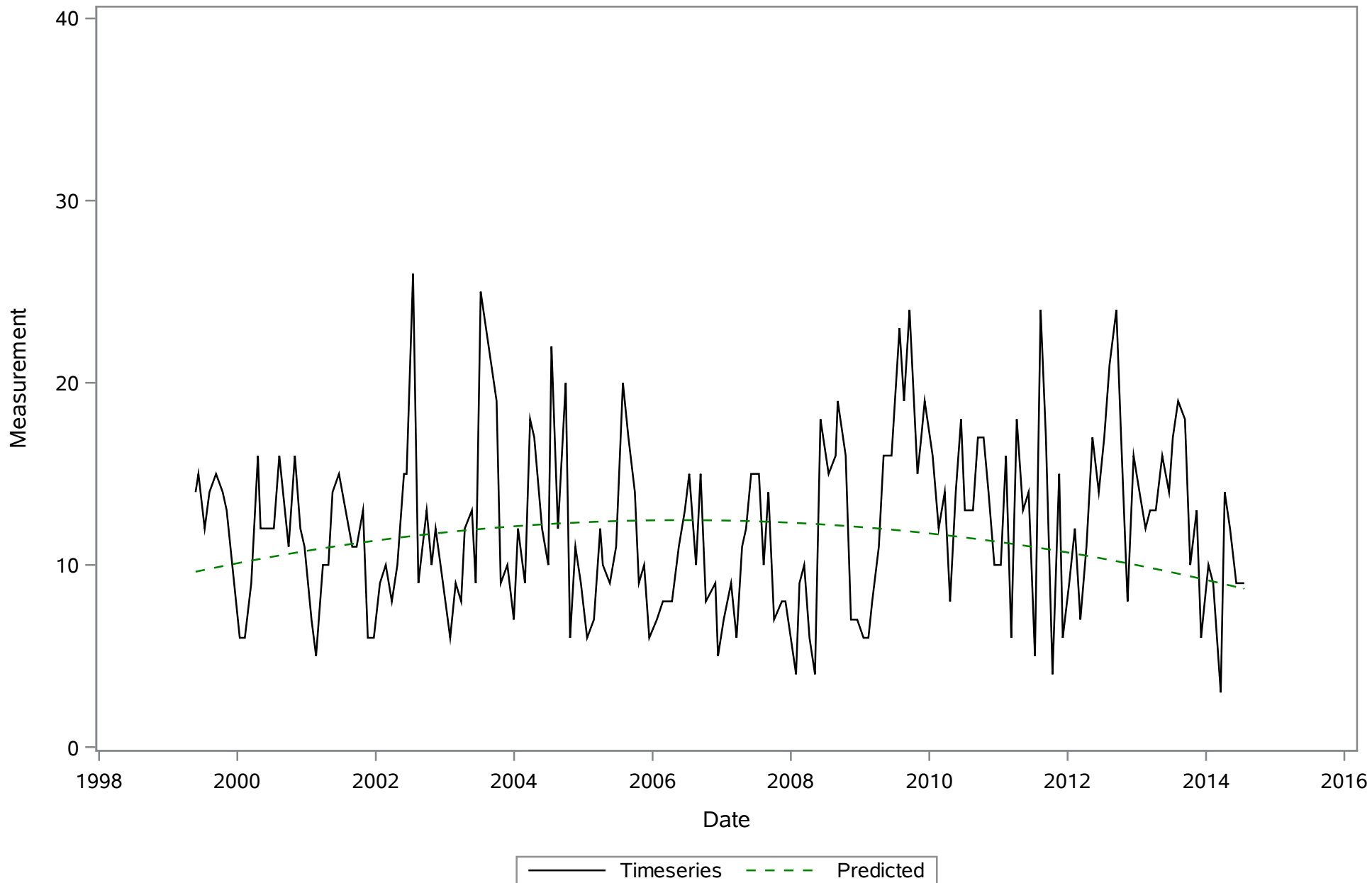
Nitrogen- Total (Total) ug/L



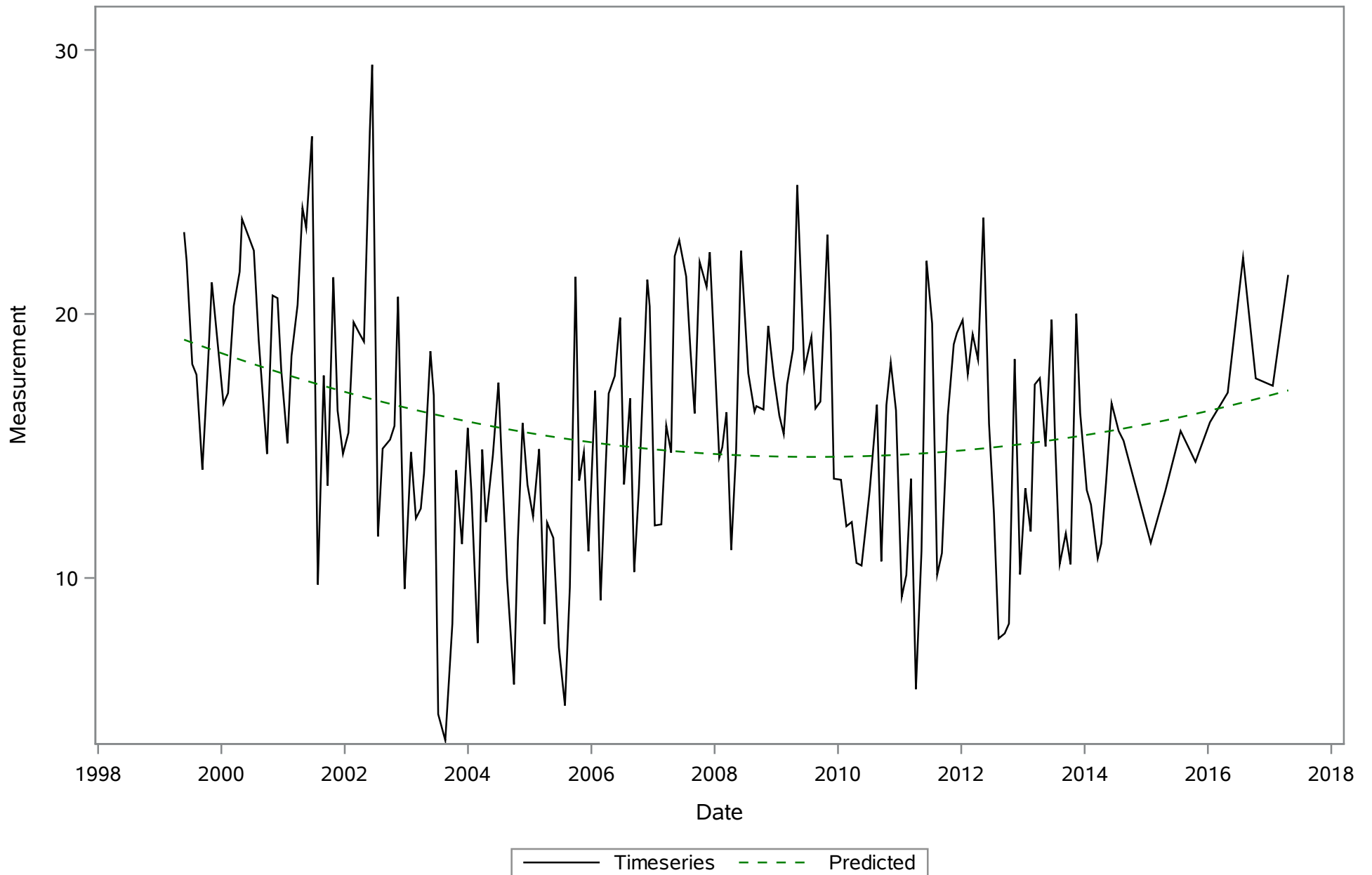
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) mg/L



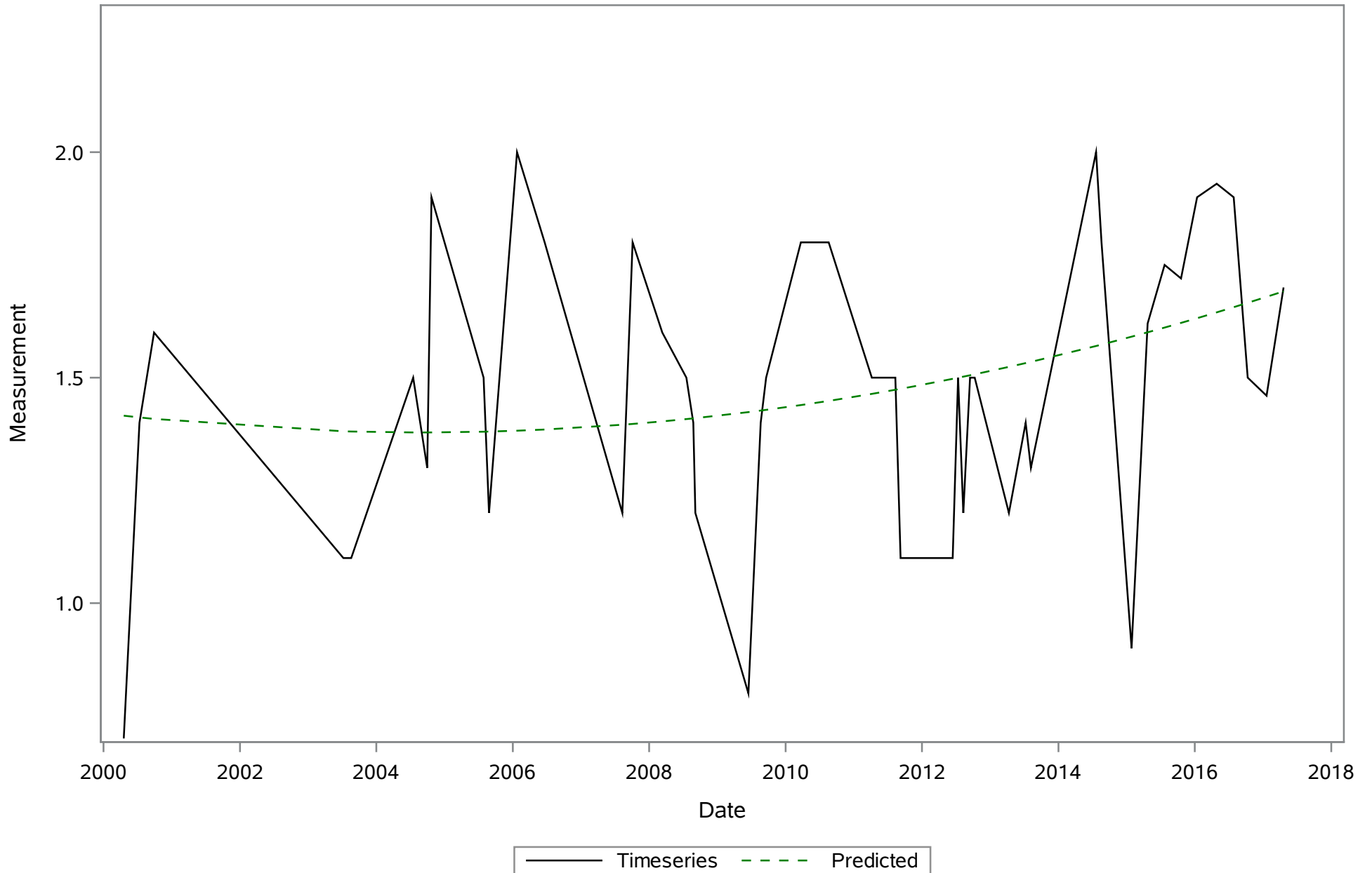
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) ug/L



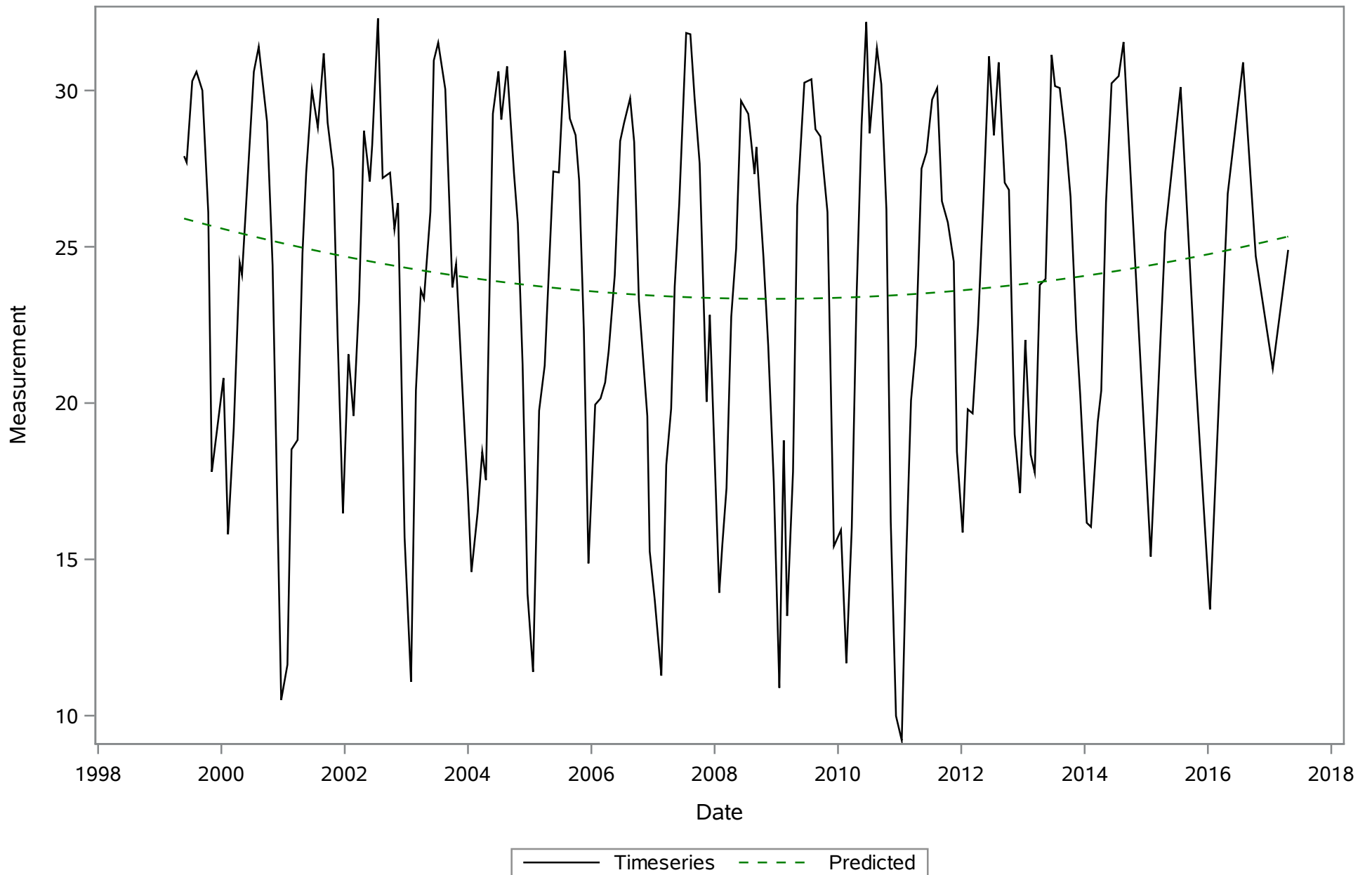
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Salinity (Total) ppt



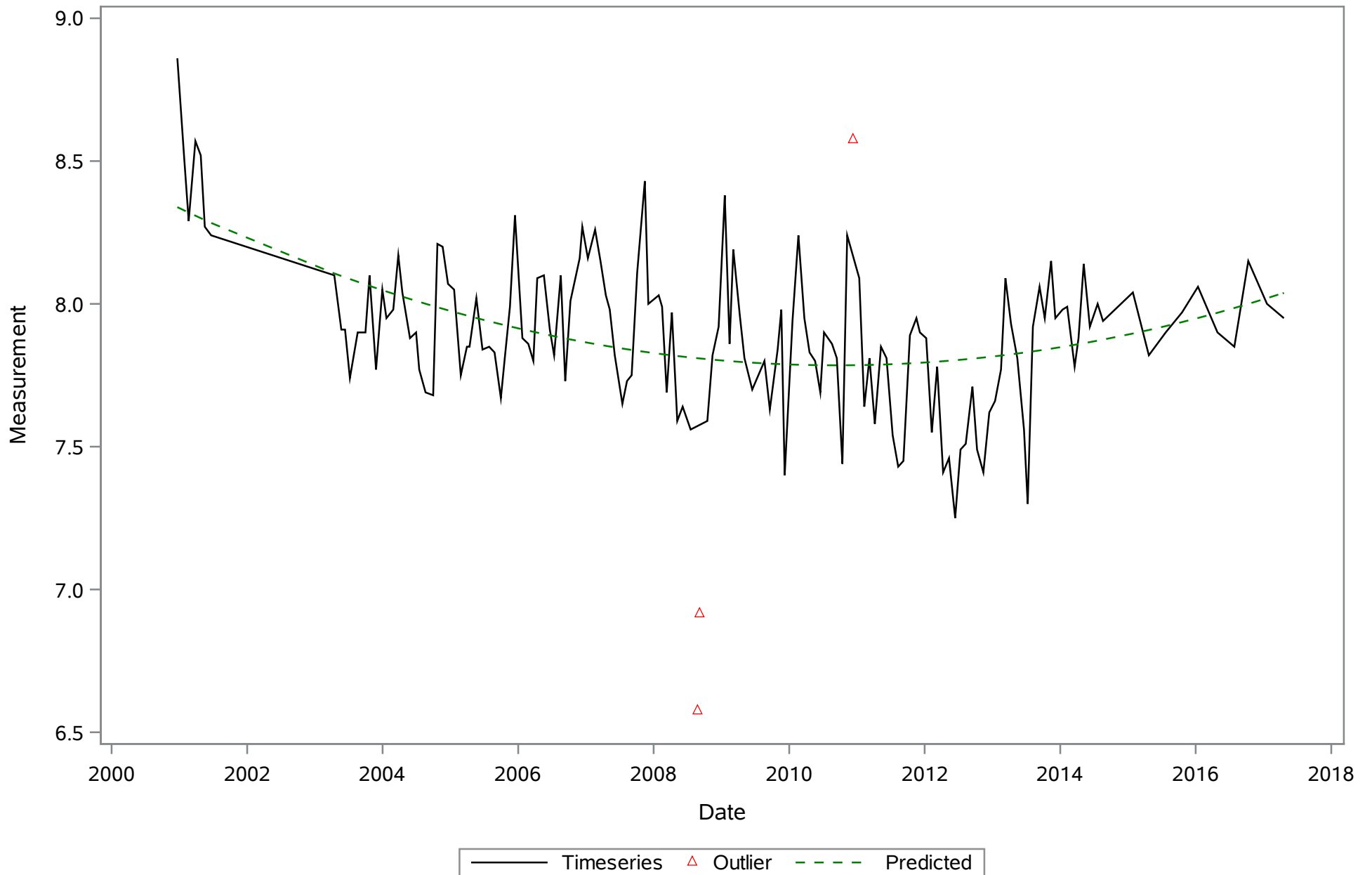
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Secchi-vertical (Total) Meters



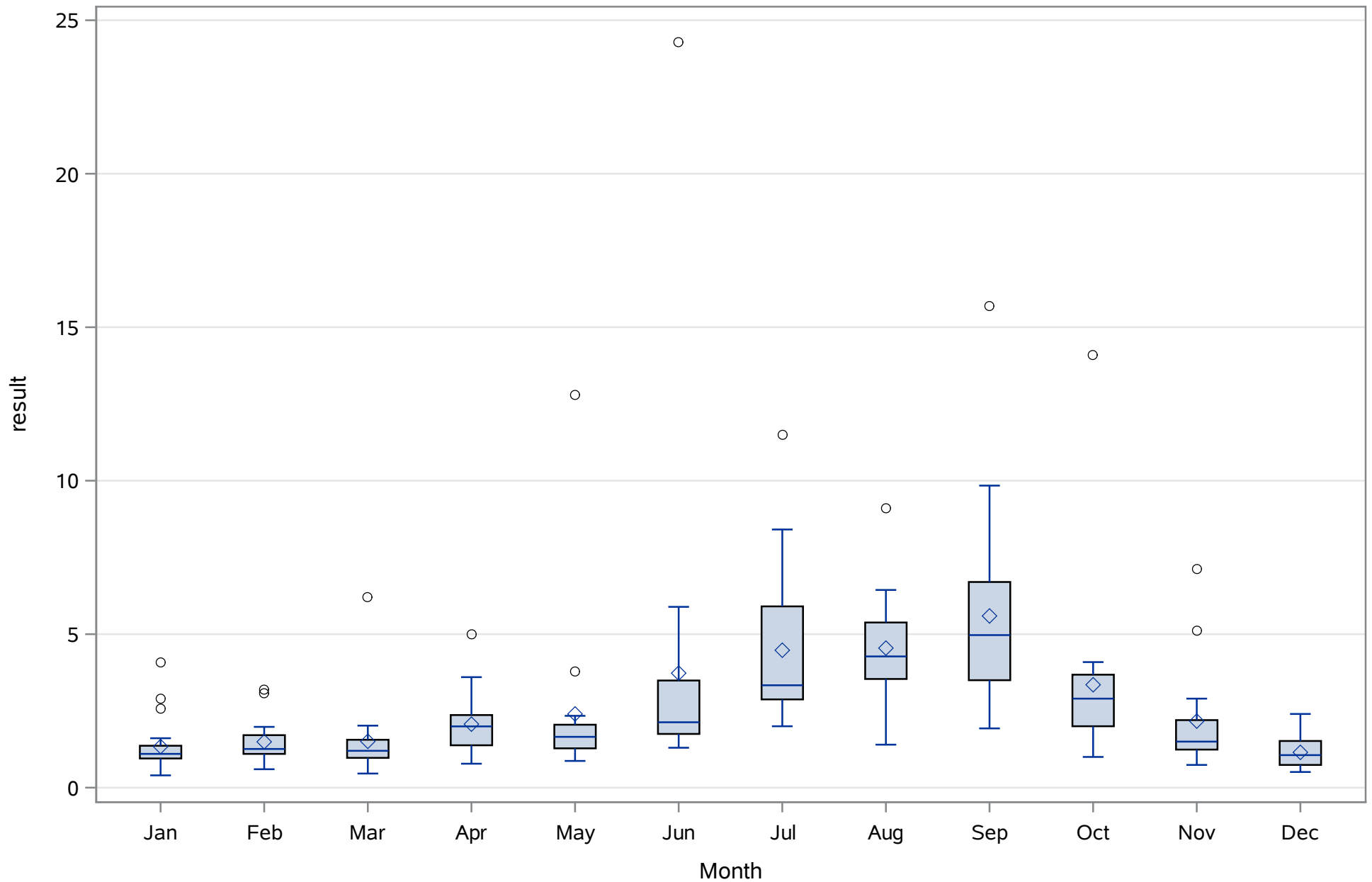
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Temperature (Total) Deg. C



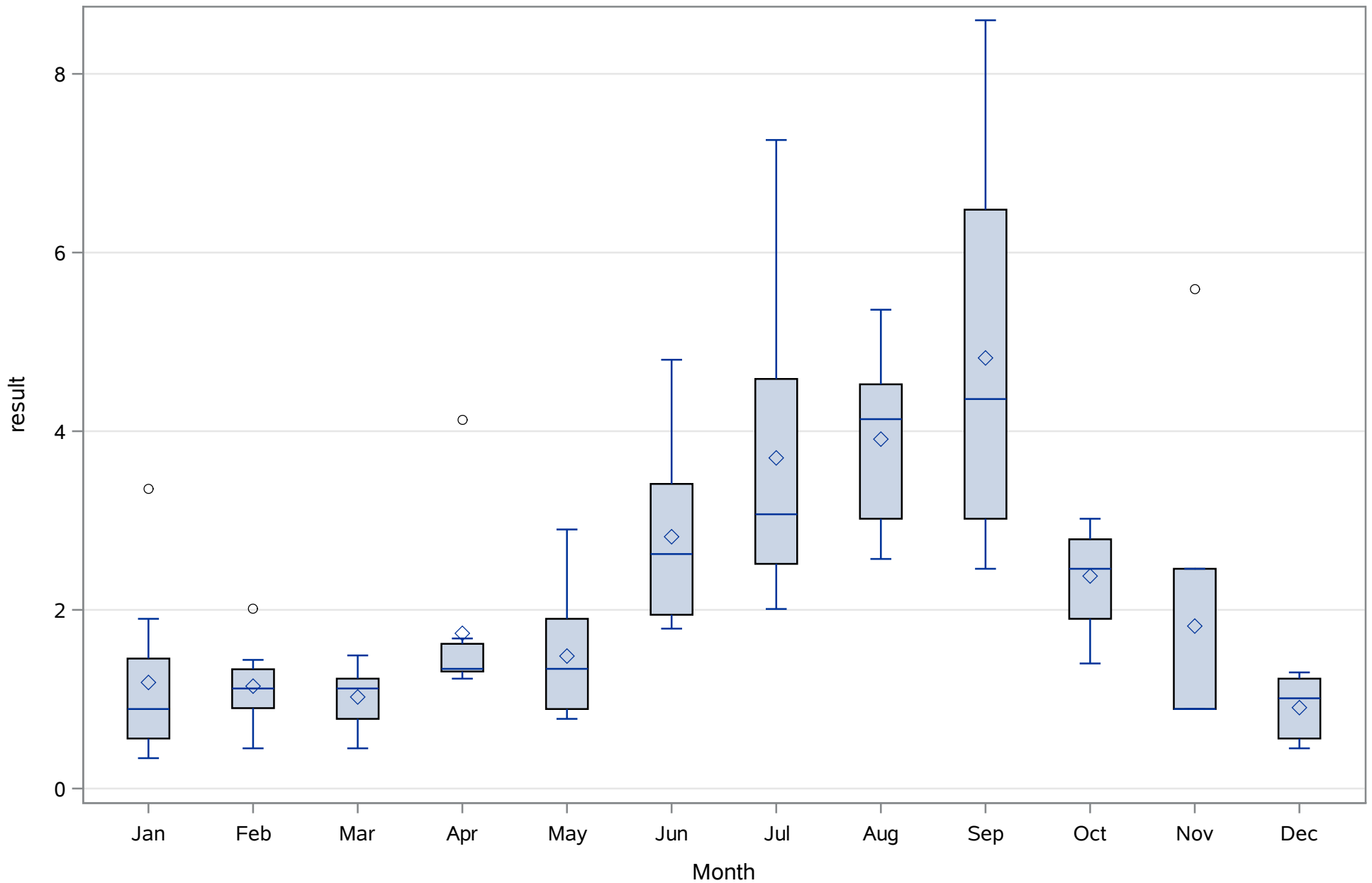
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
pH (Total) SU



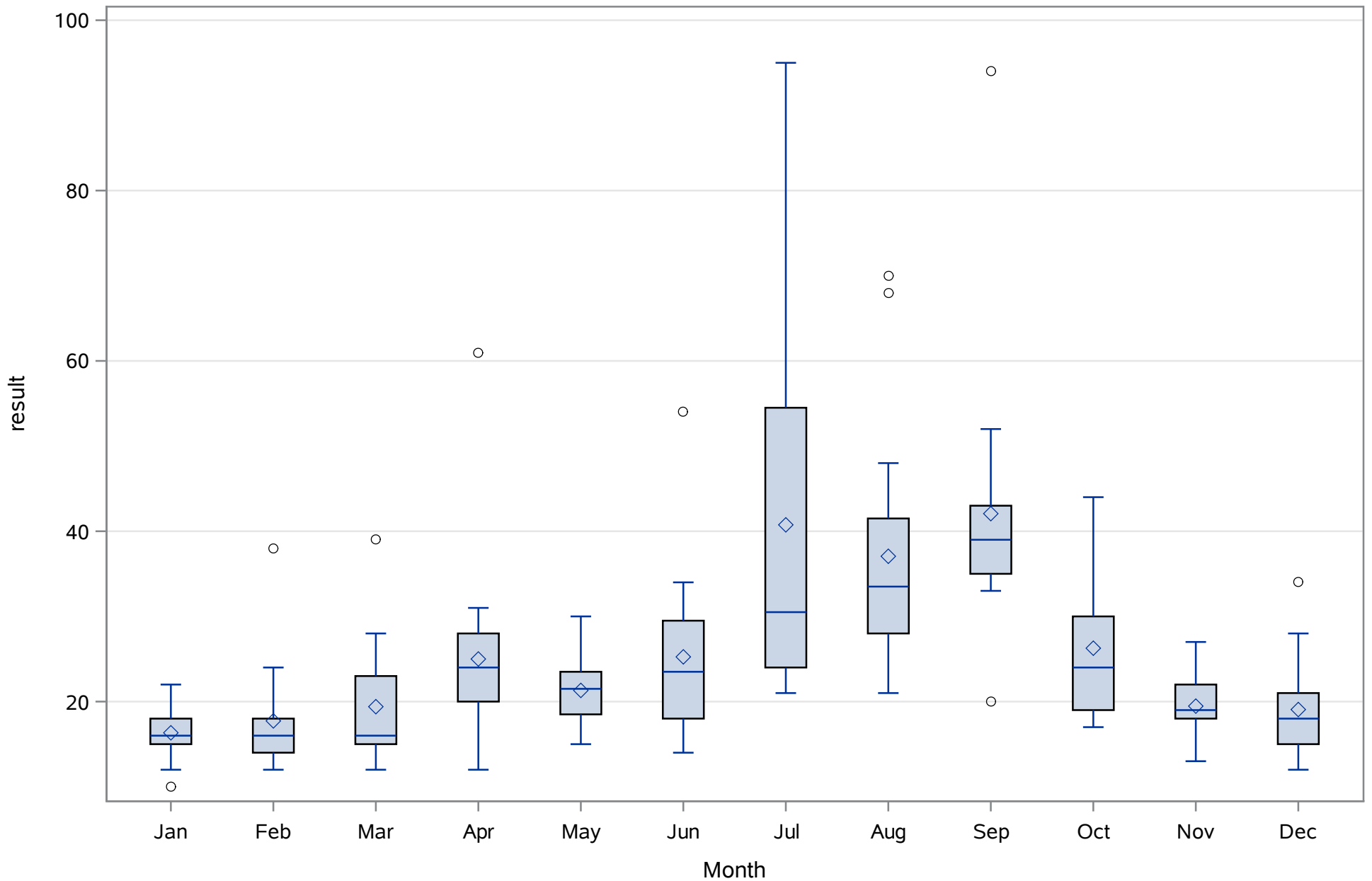
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll (Total) ug/L



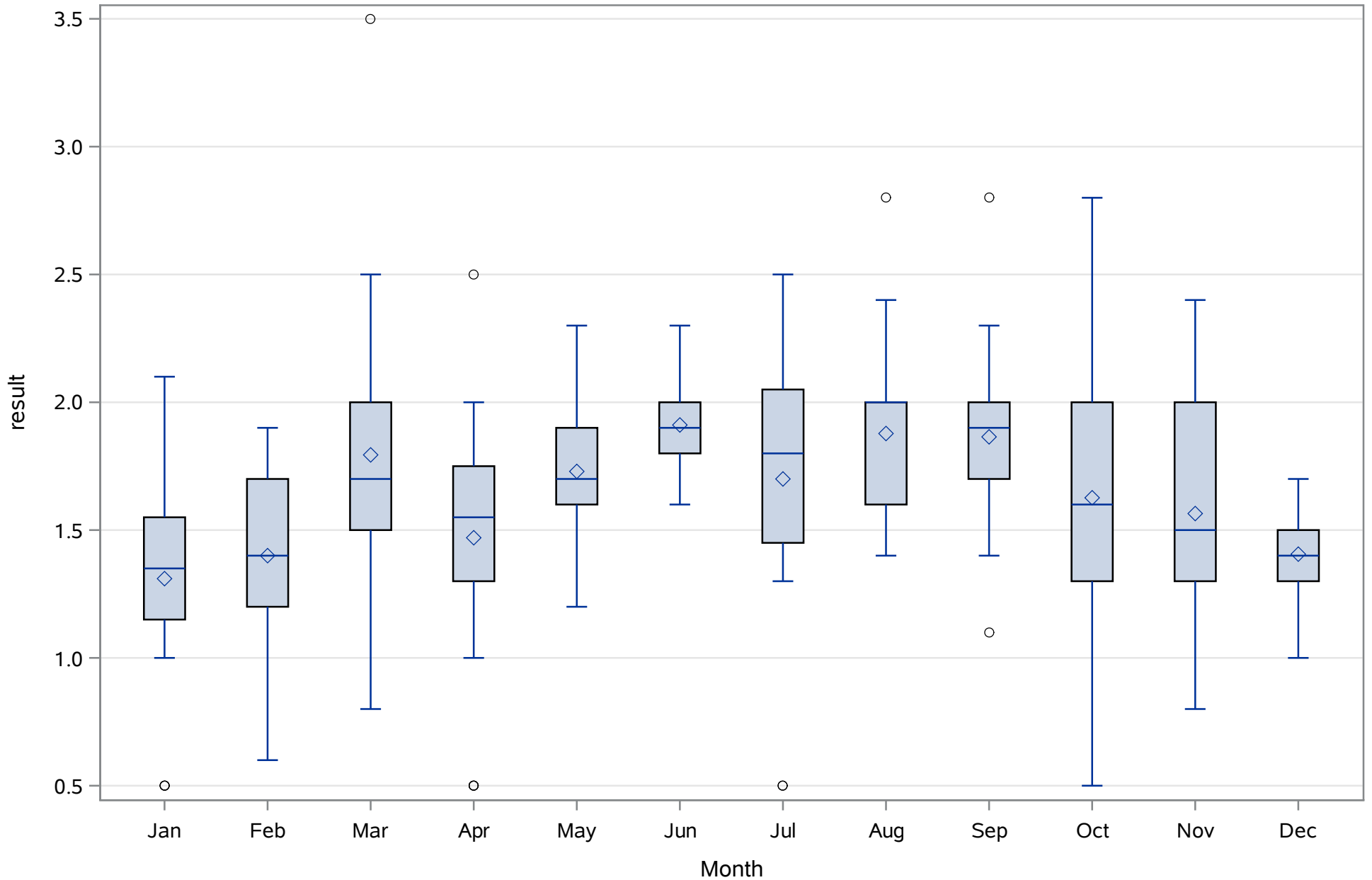
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Chlorophyll a (Total) ug/L



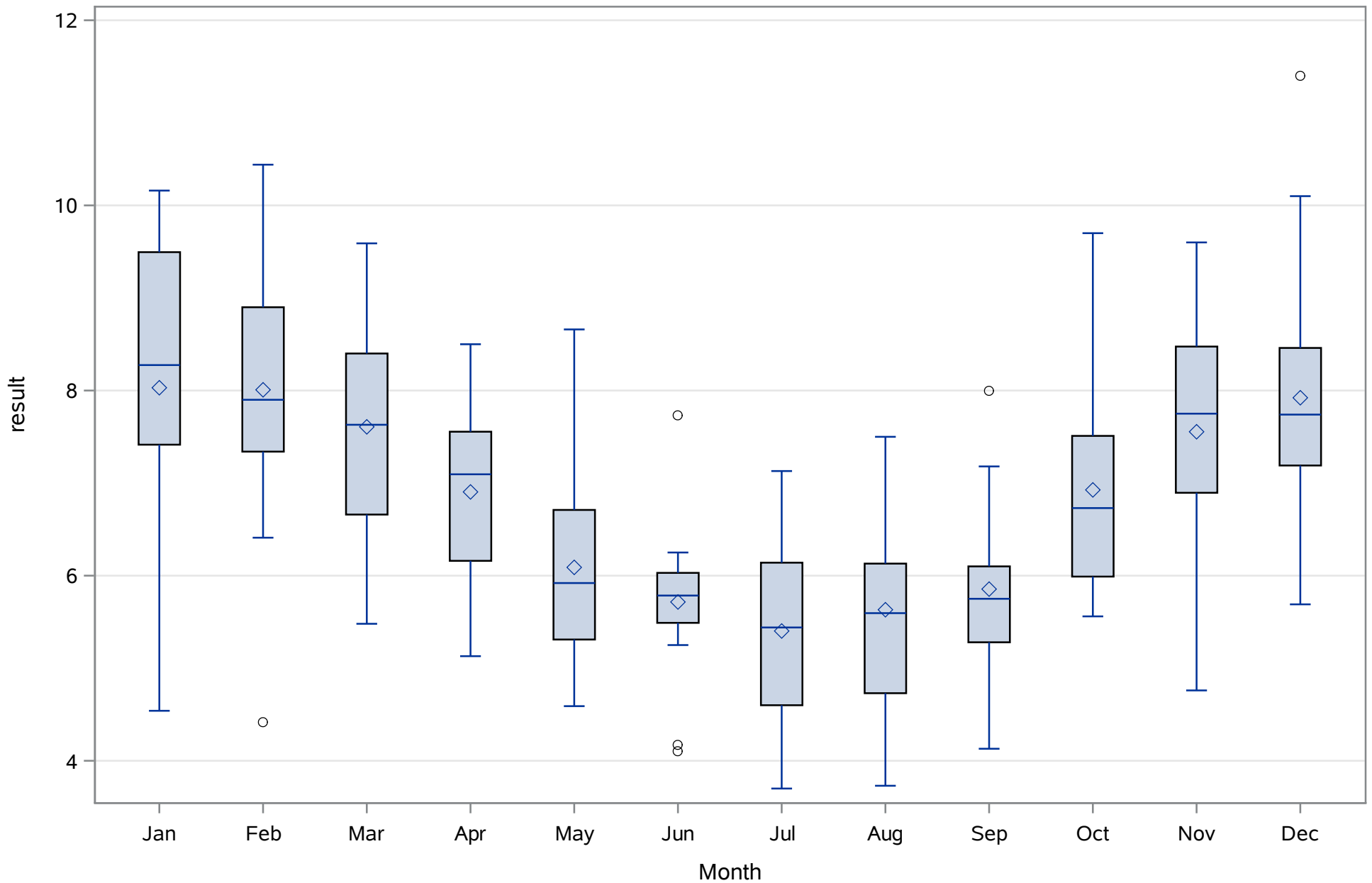
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Color (Total) PCU



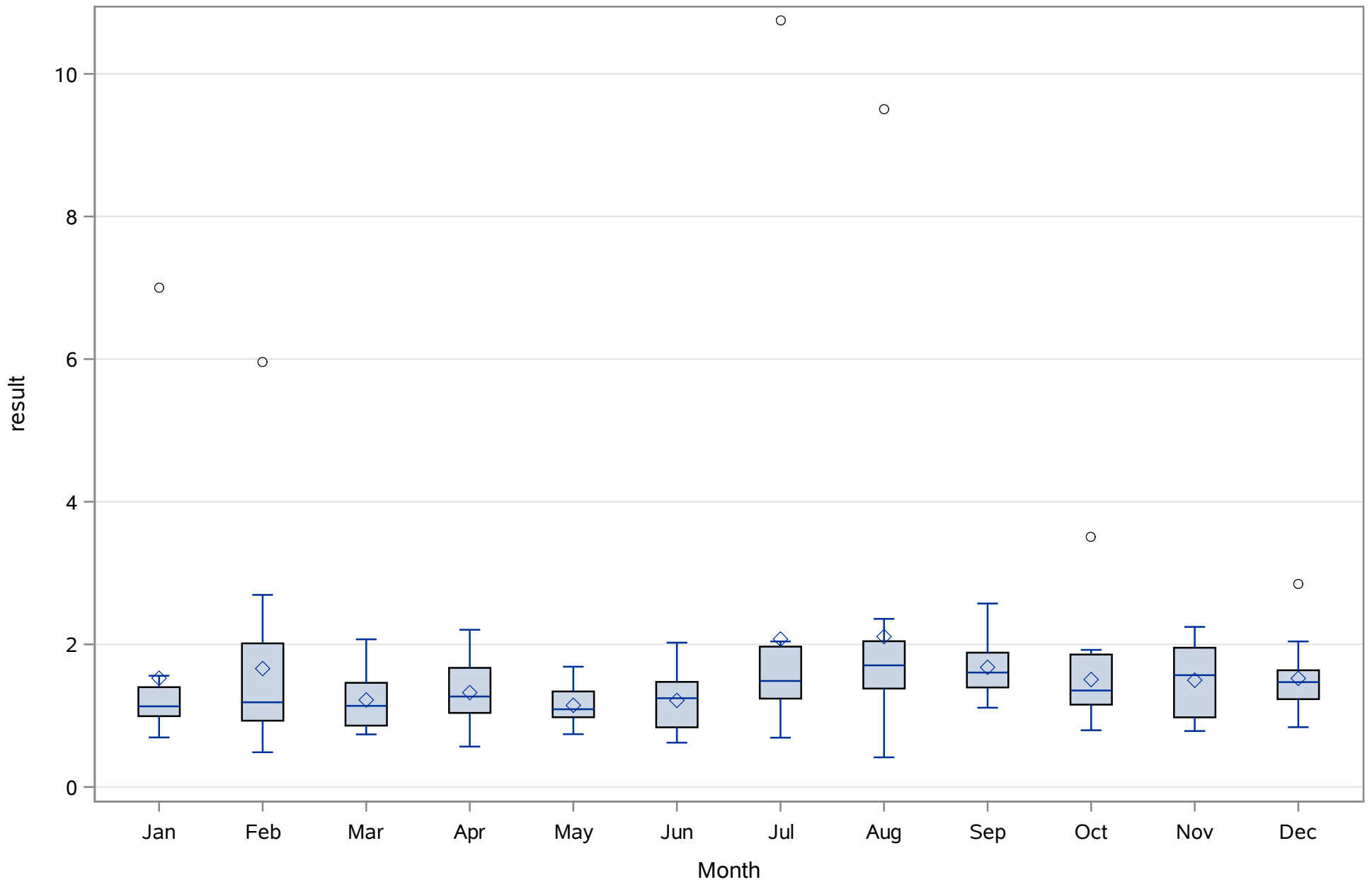
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Depth (Total) Meters



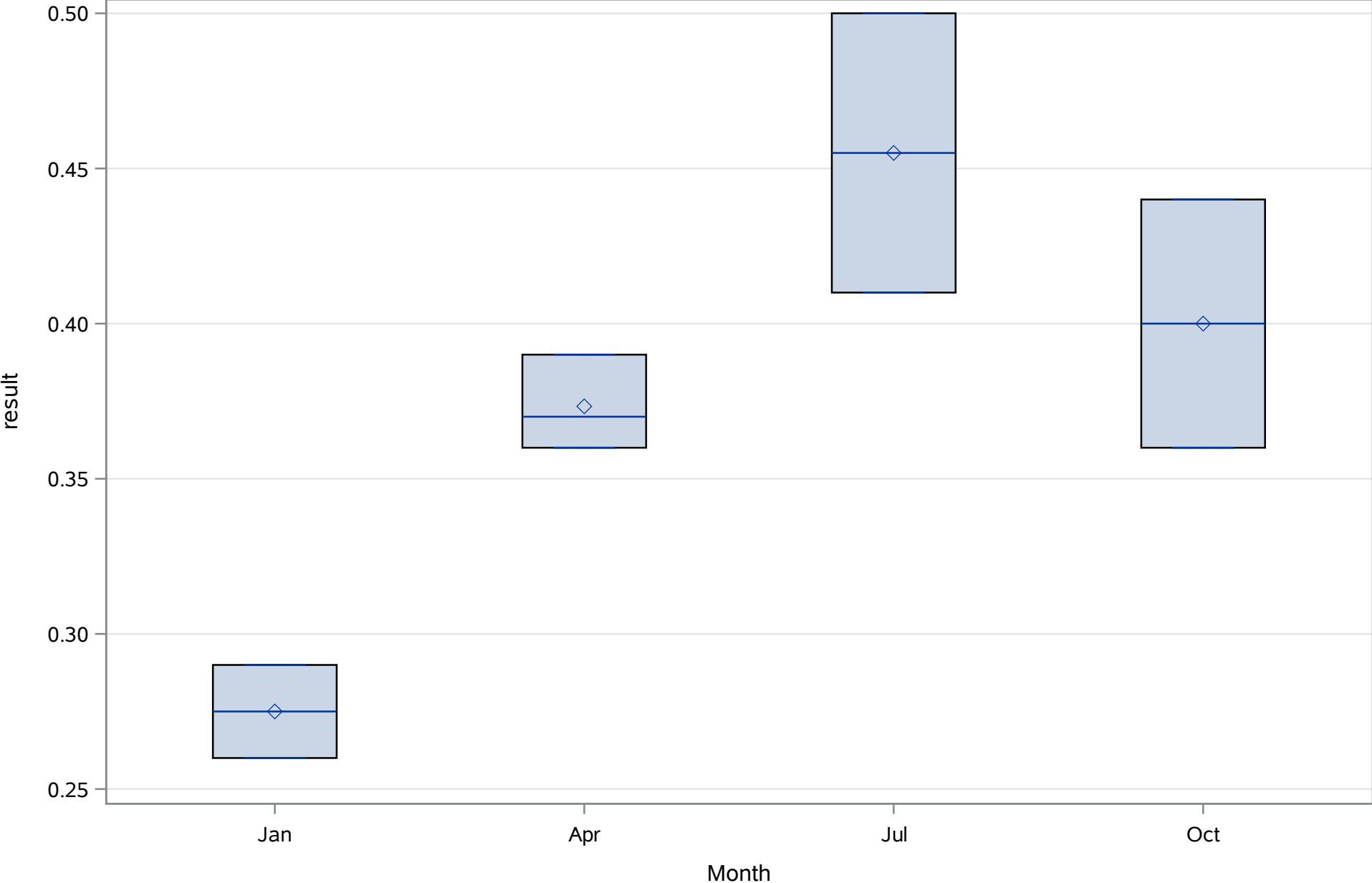
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Dissolved Oxygen (Total) mg/L



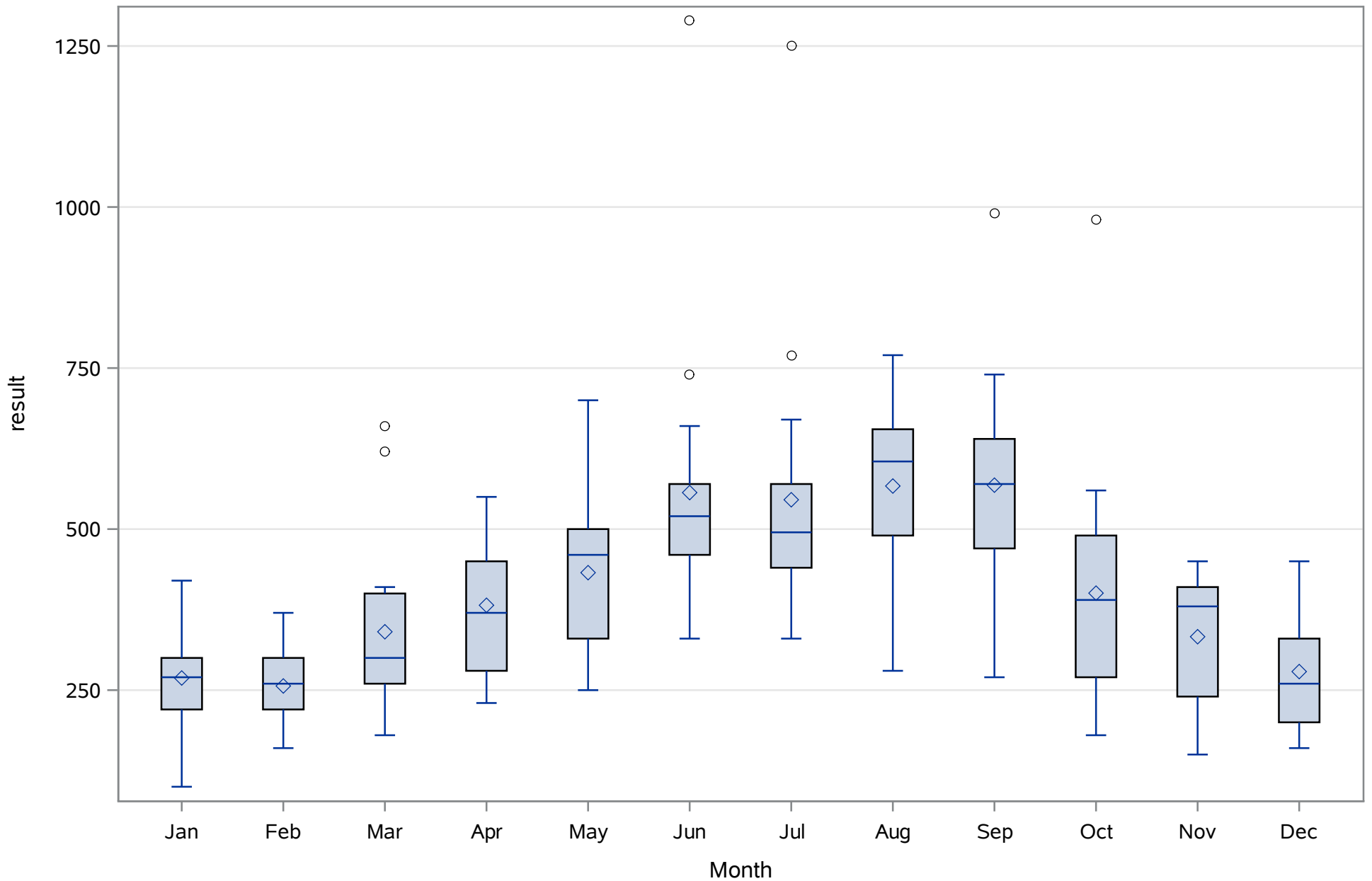
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Light, Attenuation Coefficient Kd/m



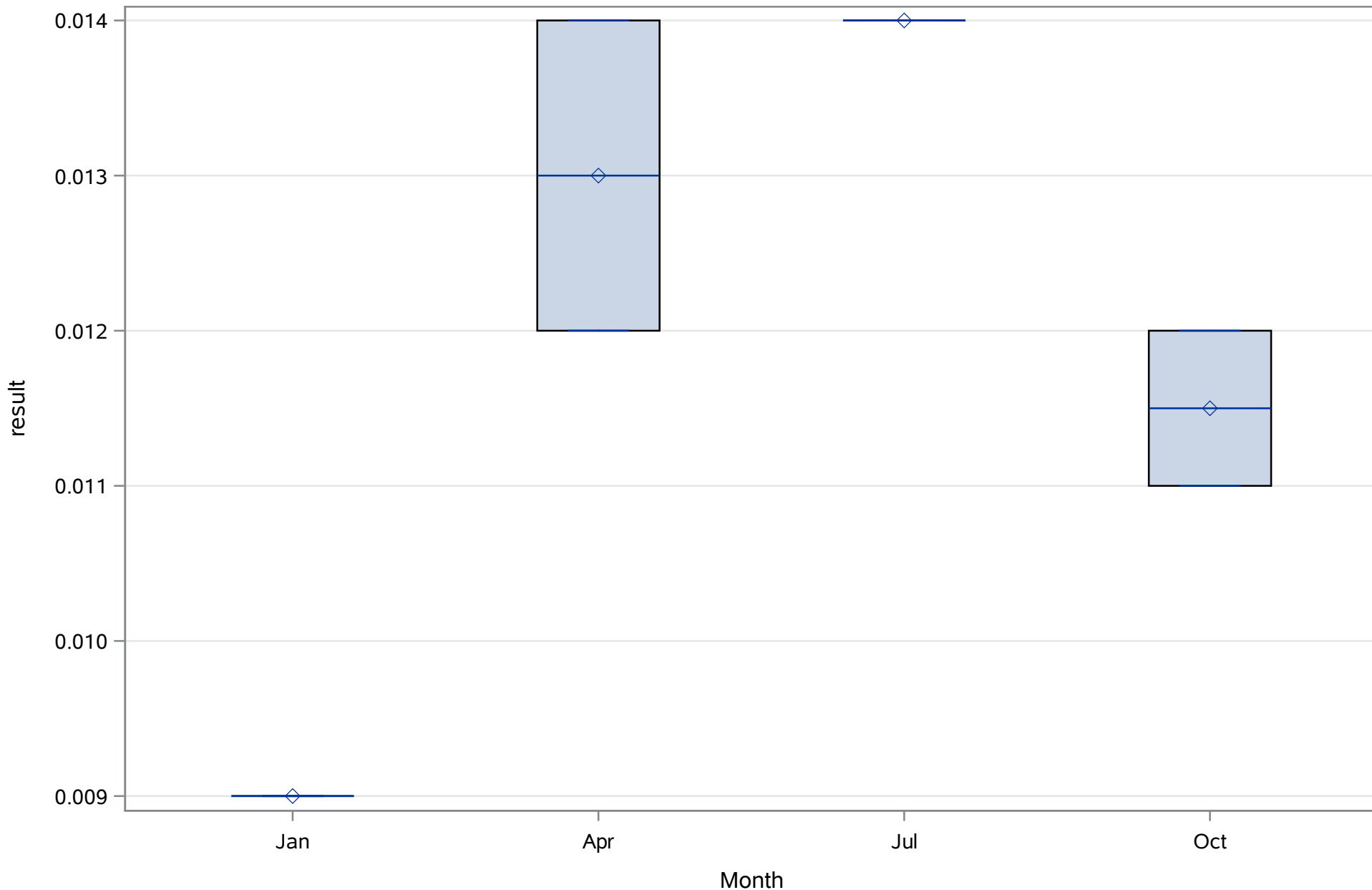
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Nitrogen- Total (Total) mg/L



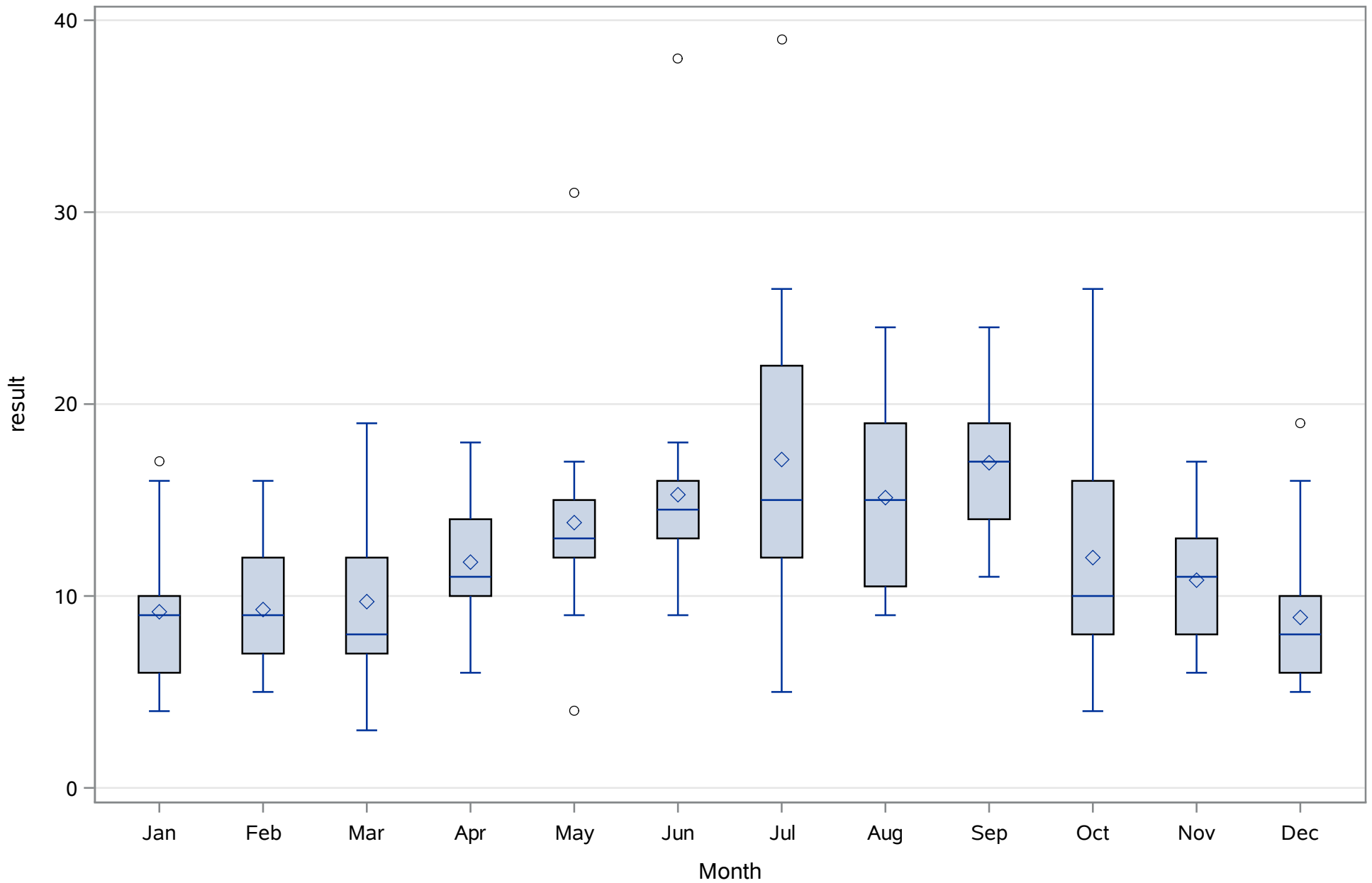
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Nitrogen- Total (Total) ug/L



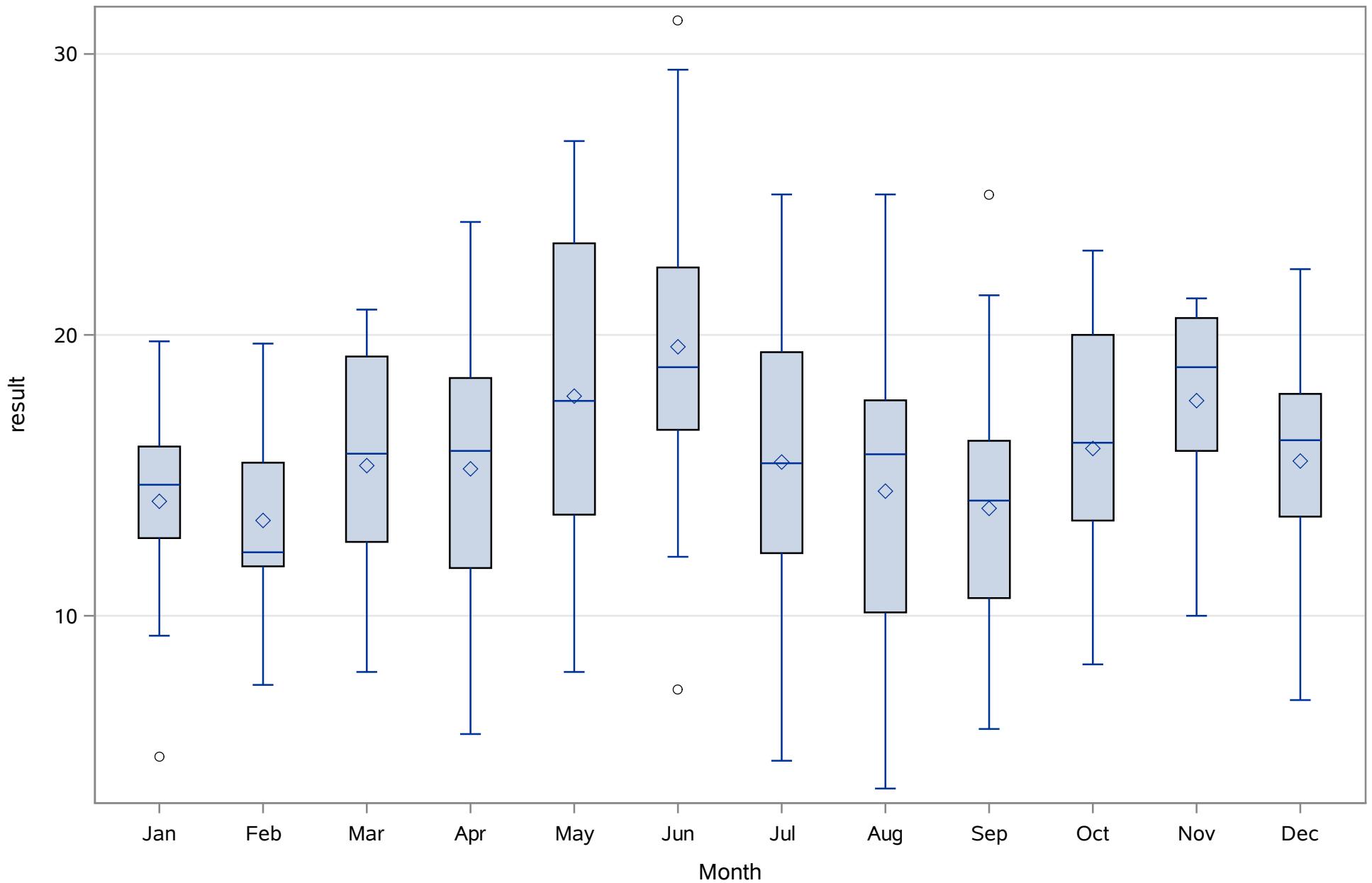
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) mg/L



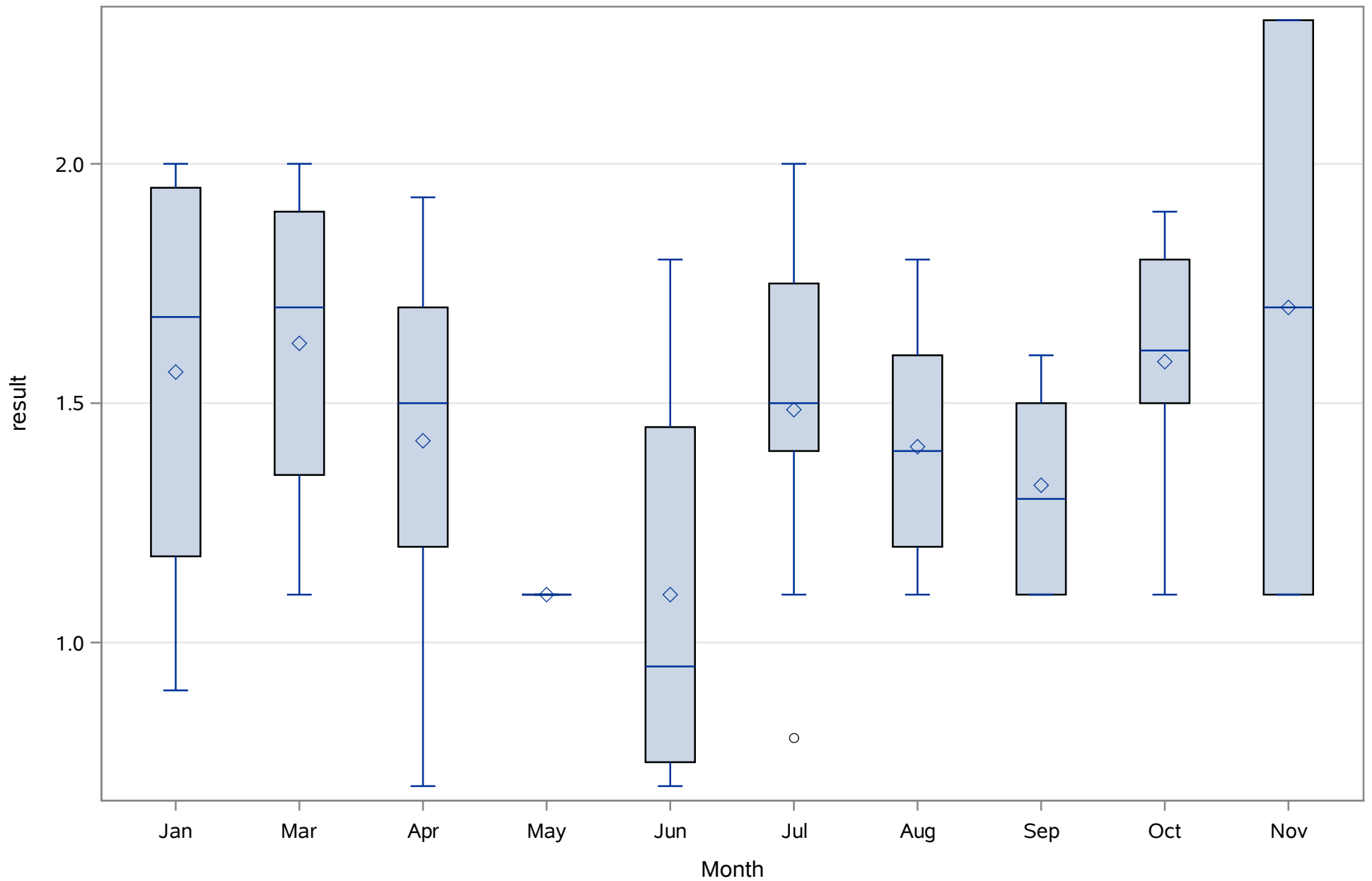
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Phosphorus- Total (Total) ug/L



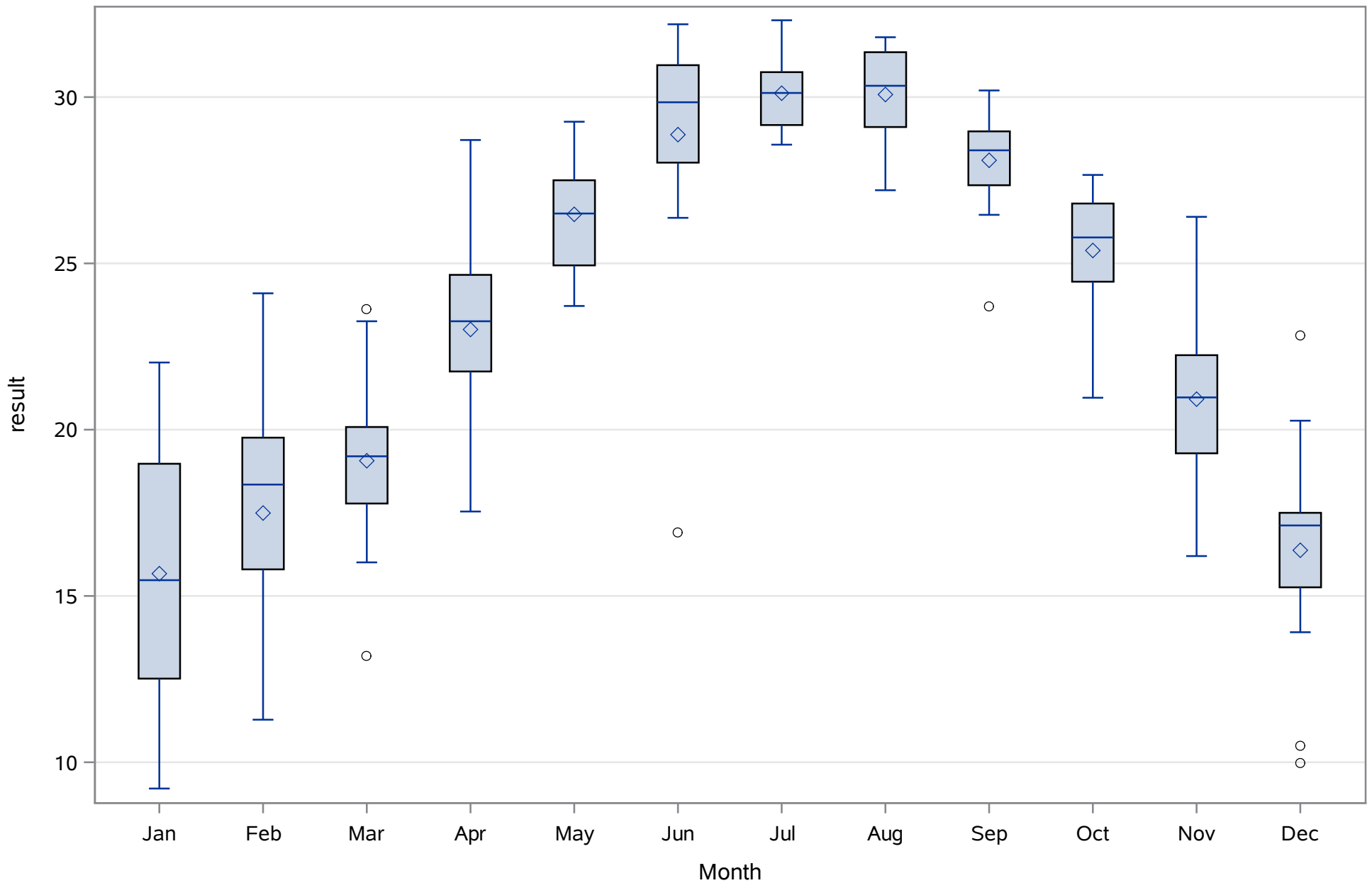
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Salinity (Total) ppth



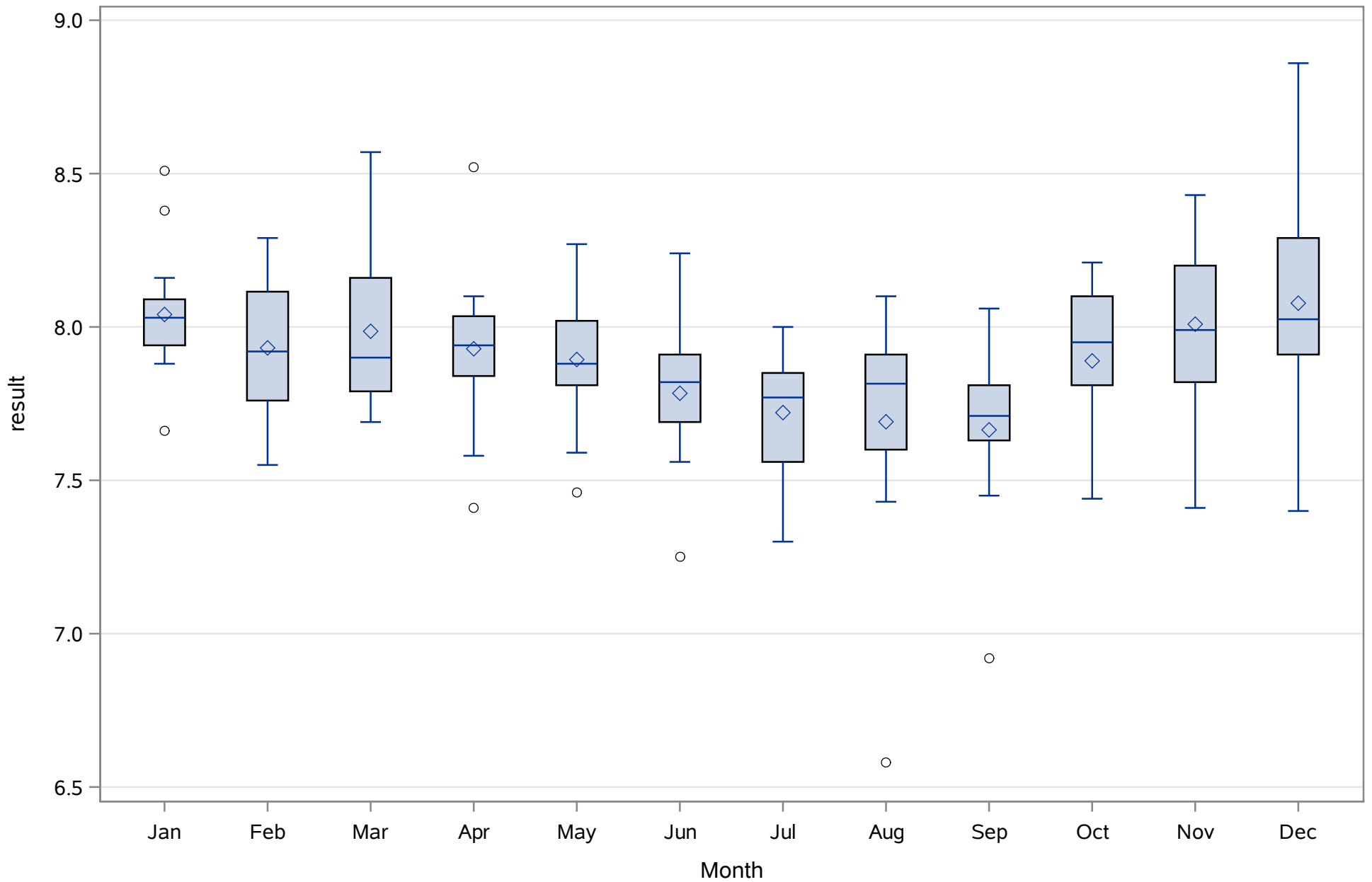
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 5
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	JUN1997	APR2017	216	4.2%	1.4%	2.3%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	2.2%	0.0%	1.1%
Color (Dissolved)	PCU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Color (Total)	PCU	MAY1999	AUG2014	184	5.4%	0.5%	2.7%
Depth (Total)	Meters	JUN1997	APR2017	217	0.0%	1.4%	0.0%
Depth, bottom (Total)	Meters	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	APR2017	215	0.0%	1.4%	0.0%
Iron (Dissolved)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	179	3.4%	1.1%	1.7%
Magnesium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	0.0%	1.0%	1.0%
Orthophosphate (P) (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	1.0%	0.5%	1.5%
Potassium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Salinity (Total)	ppth	JUN1997	APR2017	217	0.5%	1.8%	0.9%
Secchi-vertical (Total)	Meters	MAY1998	APR2017	21	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	APR2017	216	0.0%	1.9%	0.0%
Turbidity (Total)	NTU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
pH (Total)	SU	DEC2000	APR2017	153	2.0%	1.3%	2.0%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	2.42666667	Sum Observations	524.16
Std Deviation	2.81830148	Variance	7.94282326
Skewness	4.32549657	Kurtosis	25.6559766
Uncorrected SS	2979.6686	Corrected SS	1707.707
Coeff Variation	116.138797	Std Error Mean	0.19176113

Basic Statistical Measures			
Location		Variability	
Mean	2.426667	Std Deviation	2.81830
Median	1.520000	Variance	7.94282
Mode	1.000000	Range	25.13000
		Interquartile Range	1.84500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.65463	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.500
99%	14.800
95%	6.200
90%	4.690
75% Q3	2.850
50% Median	1.520
25% Q1	1.005
10%	0.690
5%	0.550
1%	0.400
0% Min	0.370

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.37	140	13.73	183
0.40	68	14.40	17
0.40	47	14.80	16
0.40	45	14.90	12
0.40	44	25.50	13

Chassahowitzka River - Fixed Station

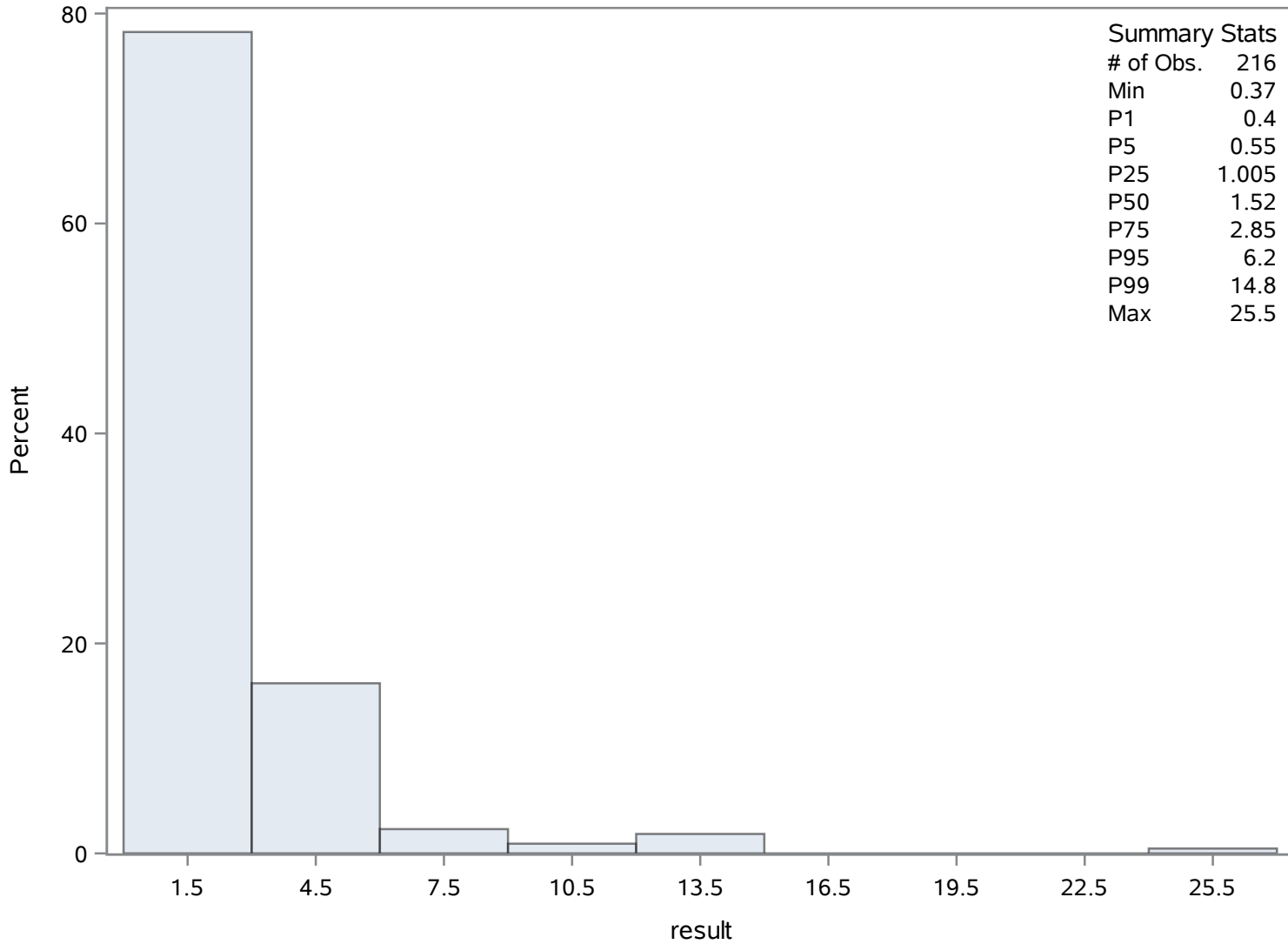
Source: COAST

Chassahowitzka Hernando 6

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	1.78681319	Sum Observations	162.6
Std Deviation	1.59277527	Variance	2.53693306
Skewness	3.53791006	Kurtosis	20.166986
Uncorrected SS	518.8598	Corrected SS	228.323976
Coeff Variation	89.1405595	Std Error Mean	0.16696822

Basic Statistical Measures			
Location		Variability	
Mean	1.786813	Std Deviation	1.59278
Median	1.230000	Variance	2.53693
Mode	0.670000	Range	12.07000
		Interquartile Range	1.60000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.70152	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.29
99%	12.29
95%	4.10
90%	3.51
75% Q3	2.38
50% Median	1.23
25% Q1	0.78
10%	0.67
5%	0.45
1%	0.22
0% Min	0.22

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.22	254	4.10	274
0.22	243	4.31	283
0.30	264	4.69	272
0.34	241	5.14	237
0.45	263	12.29	284

Chassahowitzka River - Fixed Station

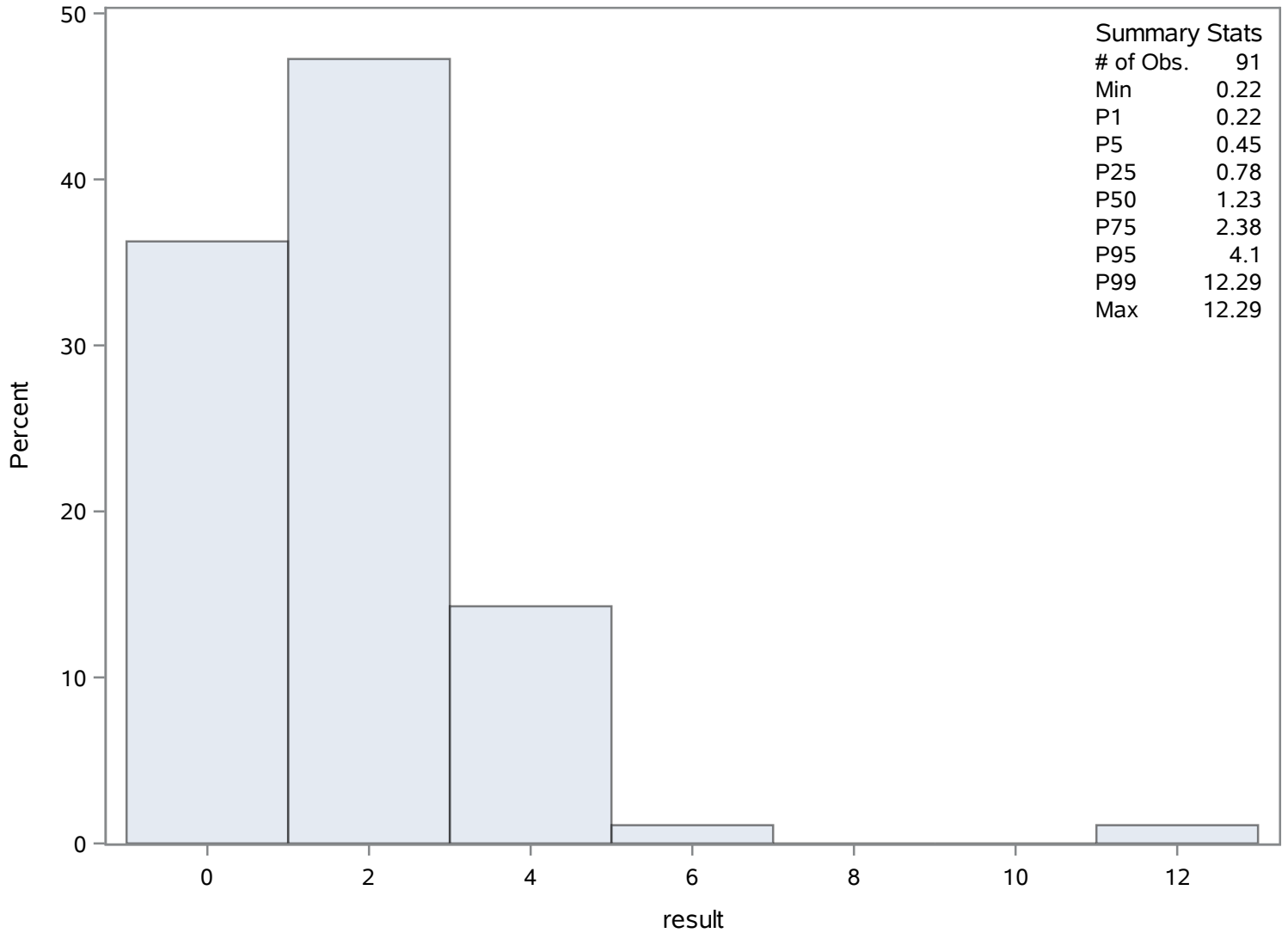
Source: COAST

Chassahowitzka Hernando 6

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	21.6141304	Sum Observations	3977
Std Deviation	10.7163129	Variance	114.839362
Skewness	2.26206337	Kurtosis	6.72463033
Uncorrected SS	106975	Corrected SS	21015.6033
Coeff Variation	49.580125	Std Error Mean	0.79001707

Basic Statistical Measures			
Location		Variability	
Mean	21.61413	Std Deviation	10.71631
Median	19.00000	Variance	114.83936
Mode	15.00000	Range	68.00000
		Interquartile Range	10.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	27.35907	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	78
99%	65
95%	42
90%	33
75% Q3	25
50% Median	19
25% Q1	15
10%	12
5%	12
1%	10
0% Min	10

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	462	56	467
10	341	57	359
10	331	63	334
10	329	65	372
10	328	78	358

Chassahowitzka River - Fixed Station

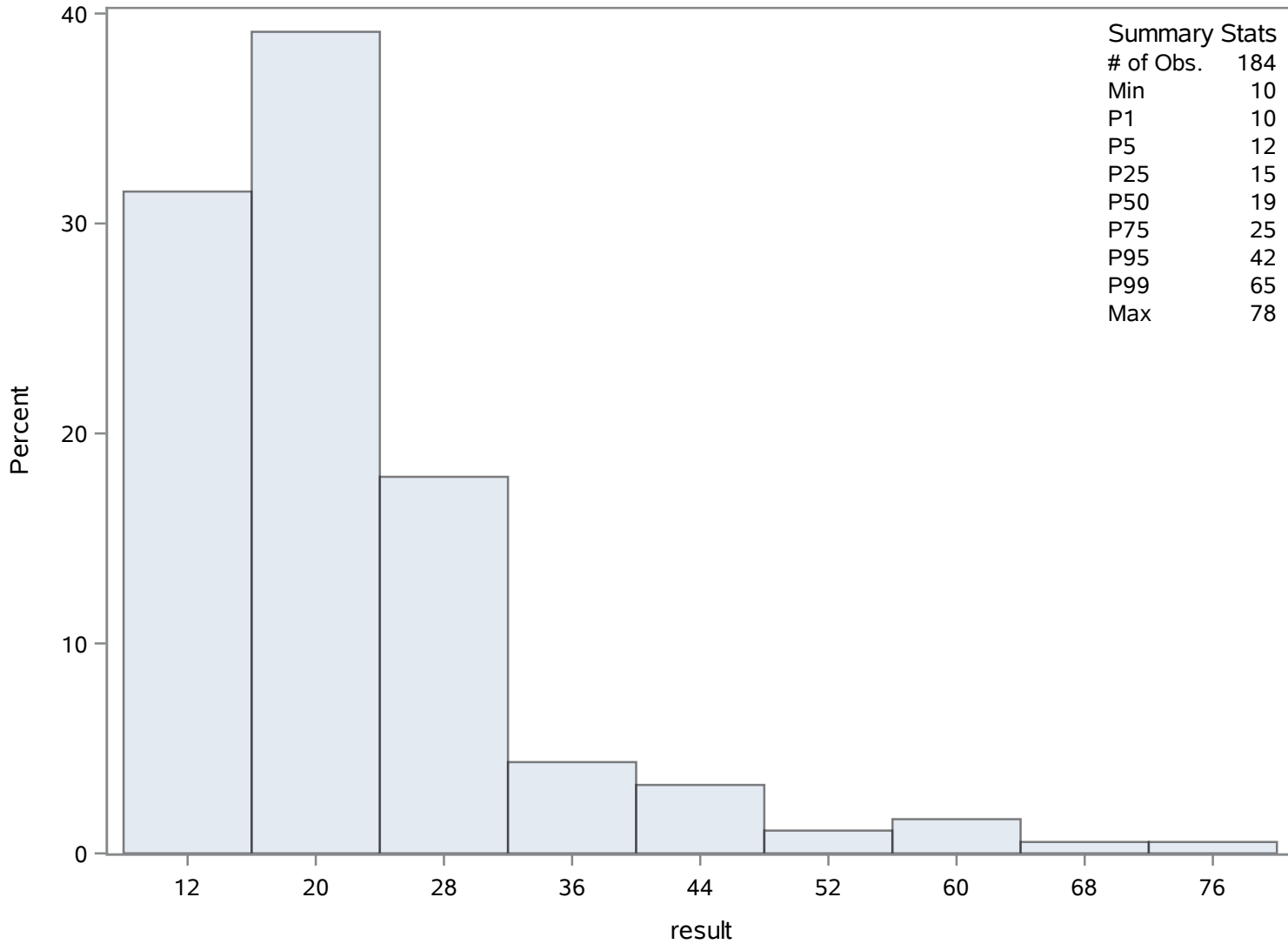
Source: COAST

Chassahowitzka Hernando 6

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	0.93294931	Sum Observations	202.45
Std Deviation	0.31685165	Variance	0.10039497
Skewness	0.19588591	Kurtosis	-0.4032209
Uncorrected SS	210.5609	Corrected SS	21.6853124
Coeff Variation	33.9623645	Std Error Mean	0.02150929

Basic Statistical Measures			
Location		Variability	
Mean	0.932949	Std Deviation	0.31685
Median	0.900000	Variance	0.10039
Mode	0.900000	Range	1.60000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	43.37425	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.80
99%	1.60
95%	1.40
90%	1.40
75% Q3	1.20
50% Median	0.90
25% Q1	0.70
10%	0.50
5%	0.44
1%	0.30
0% Min	0.20

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	707	1.6	537
0.30	702	1.6	588
0.30	582	1.6	696
0.38	699	1.8	493
0.40	622	1.8	598

Chassahowitzka River - Fixed Station

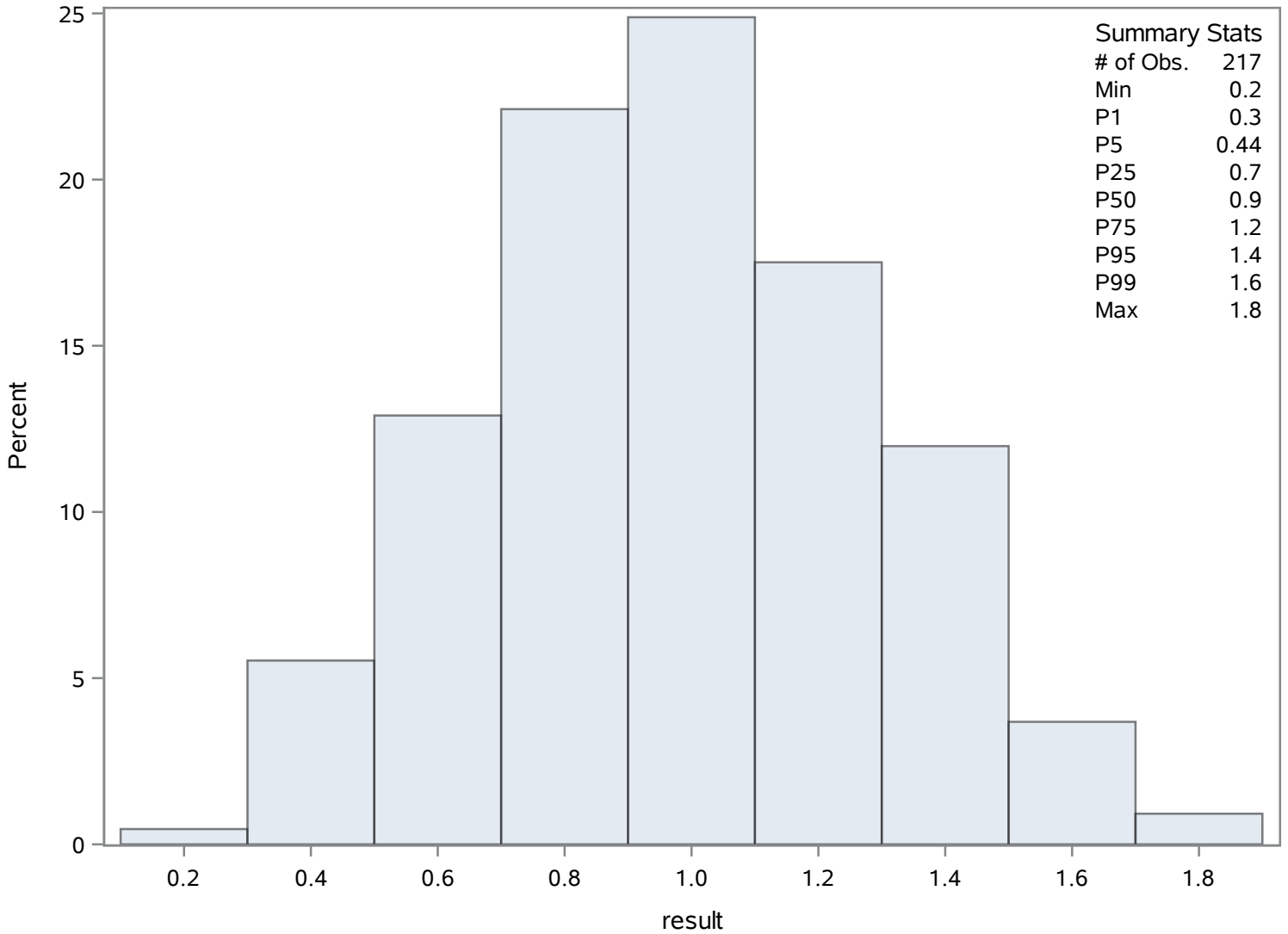
Source: COAST

Chassahowitzka Hernando 6

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	7.3804186	Sum Observations	1586.79
Std Deviation	1.70817723	Variance	2.91786945
Skewness	0.01435648	Kurtosis	-0.7800327
Uncorrected SS	12335.5985	Corrected SS	624.424062
Coeff Variation	23.1447201	Std Error Mean	0.11649672

Basic Statistical Measures			
Location		Variability	
Mean	7.380419	Std Deviation	1.70818
Median	7.450000	Variance	2.91787
Mode	5.300000	Range	8.22000
		Interquartile Range	2.64000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	63.35302	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.70
99%	10.80
95%	10.20
90%	9.50
75% Q3	8.80
50% Median	7.45
25% Q1	6.16
10%	5.15
5%	4.59

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	4.16
0% Min	3.48

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.48	781	10.48	810
3.62	865	10.53	761
4.16	823	10.80	714
4.32	821	10.80	847
4.42	747	11.70	750

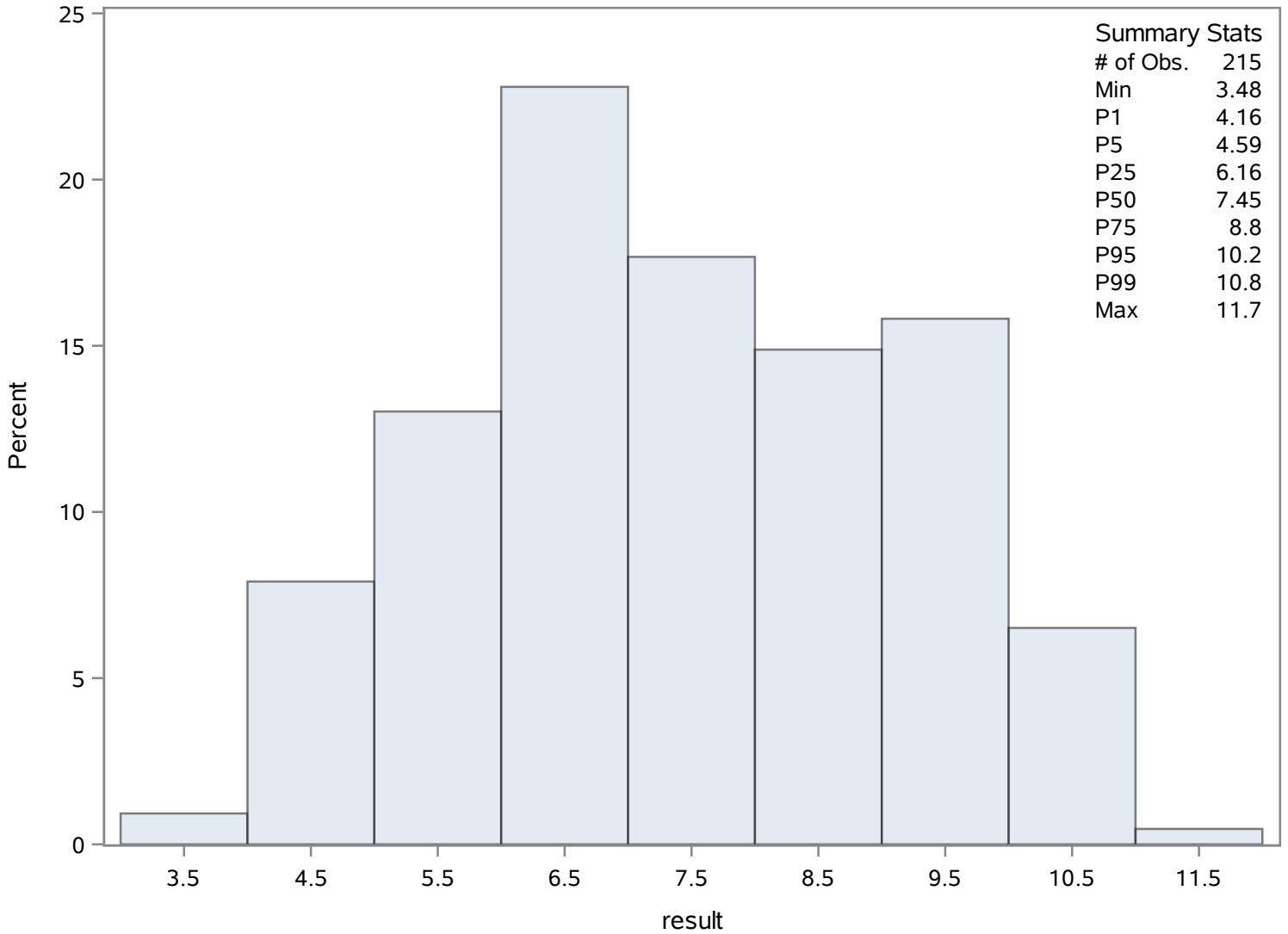
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 6 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	179	Sum Weights	179
Mean	1.49652514	Sum Observations	267.878
Std Deviation	0.93182225	Variance	0.8682927
Skewness	5.54629191	Kurtosis	46.1639081
Uncorrected SS	555.442262	Corrected SS	154.556101
Coeff Variation	62.2657263	Std Error Mean	0.06964766

Basic Statistical Measures			
Location		Variability	
Mean	1.496525	Std Deviation	0.93182
Median	1.351000	Variance	0.86829
Mode	0.725000	Range	9.70500
		Interquartile Range	0.74800

Note: The mode displayed is the smallest of 13 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	21.48708	Pr > t 	<.0001
Sign	M	89.5	Pr >= M 	<.0001
Signed Rank	S	8055	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.285
99%	5.252
95%	2.461
90%	2.277
75% Q3	1.743
50% Median	1.351
25% Q1	0.995
10%	0.798
5%	0.688

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

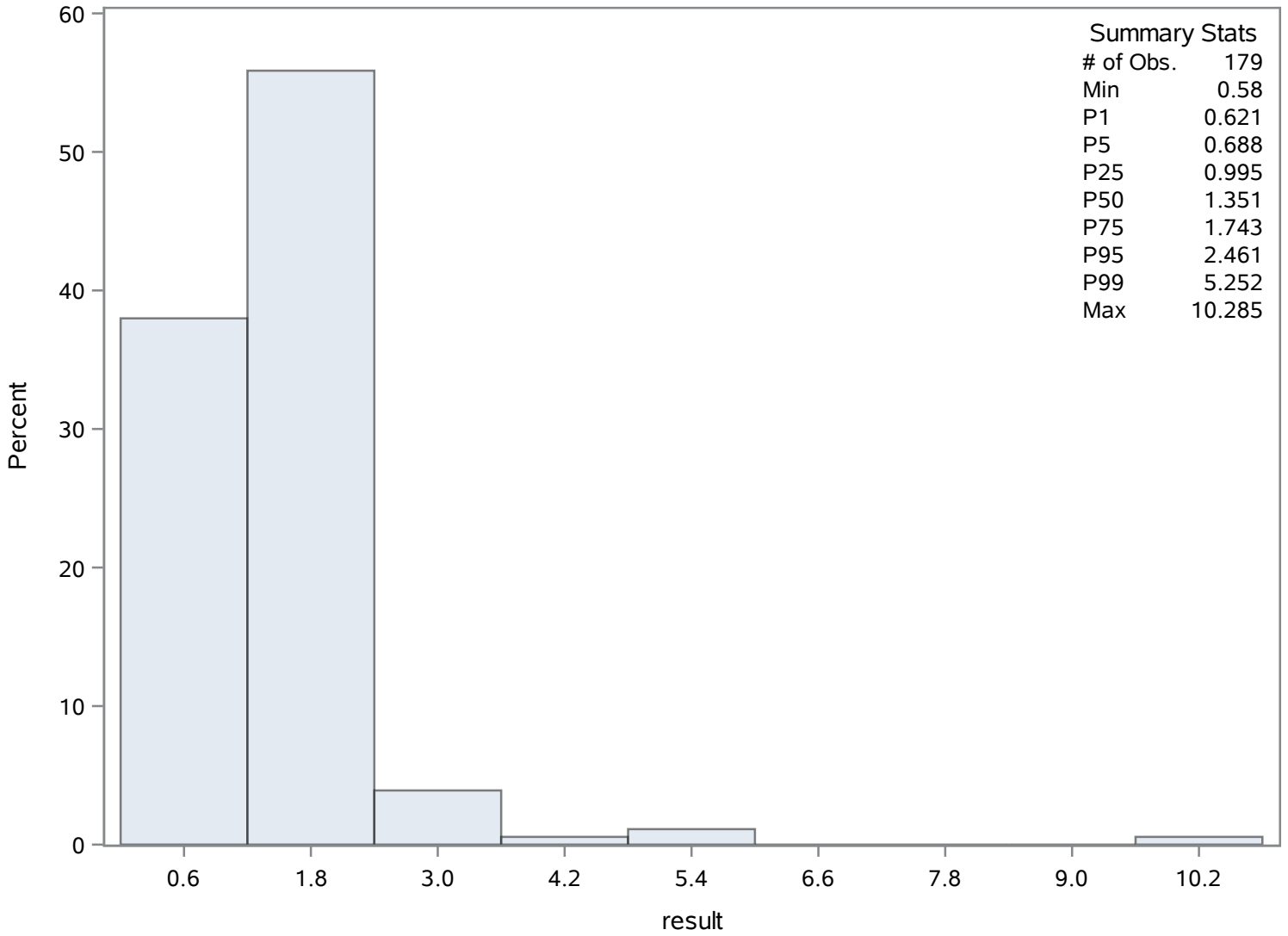
Quantiles (Definition 5)	
Level	Quantile
1%	0.621
0% Min	0.580

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.580	1095	3.032	1042
0.621	1002	3.692	971
0.649	1100	5.100	1022
0.653	953	5.252	986
0.662	1039	10.285	969

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.34555556	Sum Observations	3.11
Std Deviation	0.06247222	Variance	0.00390278
Skewness	0.41071639	Kurtosis	-0.7379021
Uncorrected SS	1.1059	Corrected SS	0.03122222
Coeff Variation	18.0787763	Std Error Mean	0.02082407

Basic Statistical Measures			
Location		Variability	
Mean	0.345556	Std Deviation	0.06247
Median	0.330000	Variance	0.00390
Mode	0.320000	Range	0.19000
		Interquartile Range	0.08000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.59404	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.45
99%	0.45
95%	0.45
90%	0.45
75% Q3	0.40
50% Median	0.33
25% Q1	0.32
10%	0.26
5%	0.26
1%	0.26
0% Min	0.26

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.26	1110	0.33	1107
0.28	1106	0.34	1103
0.32	1111	0.40	1104
0.32	1105	0.41	1109
0.33	1107	0.45	1108

Chassahowitzka River - Fixed Station

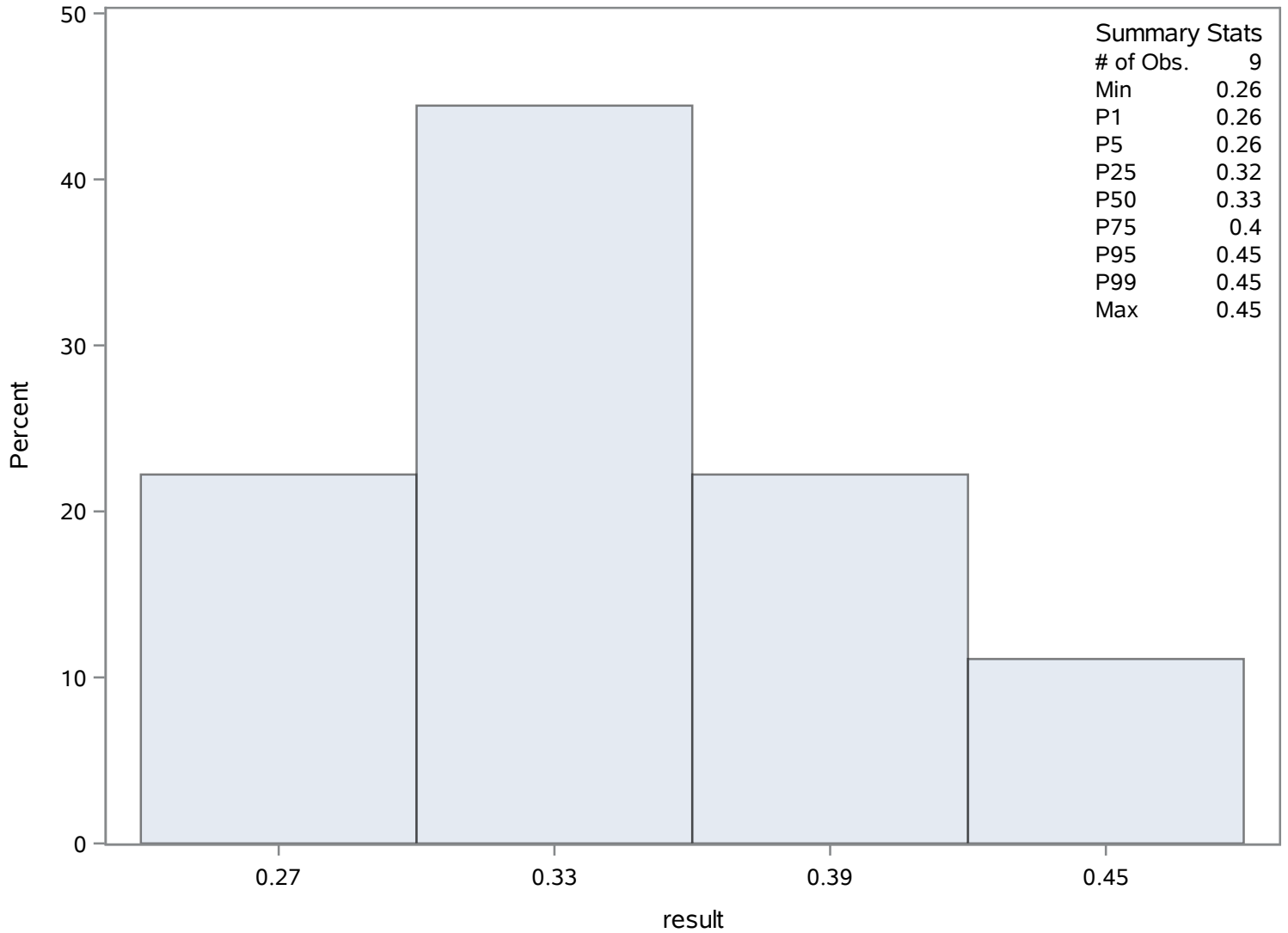
Source: COAST

Chassahowitzka Hernando 6

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	400.436893	Sum Observations	82490
Std Deviation	180.760732	Variance	32674.4423
Skewness	1.77877822	Kurtosis	6.75244128
Uncorrected SS	39730300	Corrected SS	6698260.68
Coeff Variation	45.1408787	Std Error Mean	12.594197

Basic Statistical Measures			
Location		Variability	
Mean	400.4369	Std Deviation	180.76073
Median	380.0000	Variance	32674
Mode	340.0000	Range	1380
		Interquartile Range	210.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	31.79535	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1480
99%	940
95%	710
90%	590
75% Q3	490
50% Median	380
25% Q1	280
10%	210
5%	180
1%	110
0% Min	100

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
100	1310	880	1123
110	1253	880	1127
110	1203	940	1128
140	1308	1120	1125
140	1239	1480	1124

Chassahowitzka River - Fixed Station

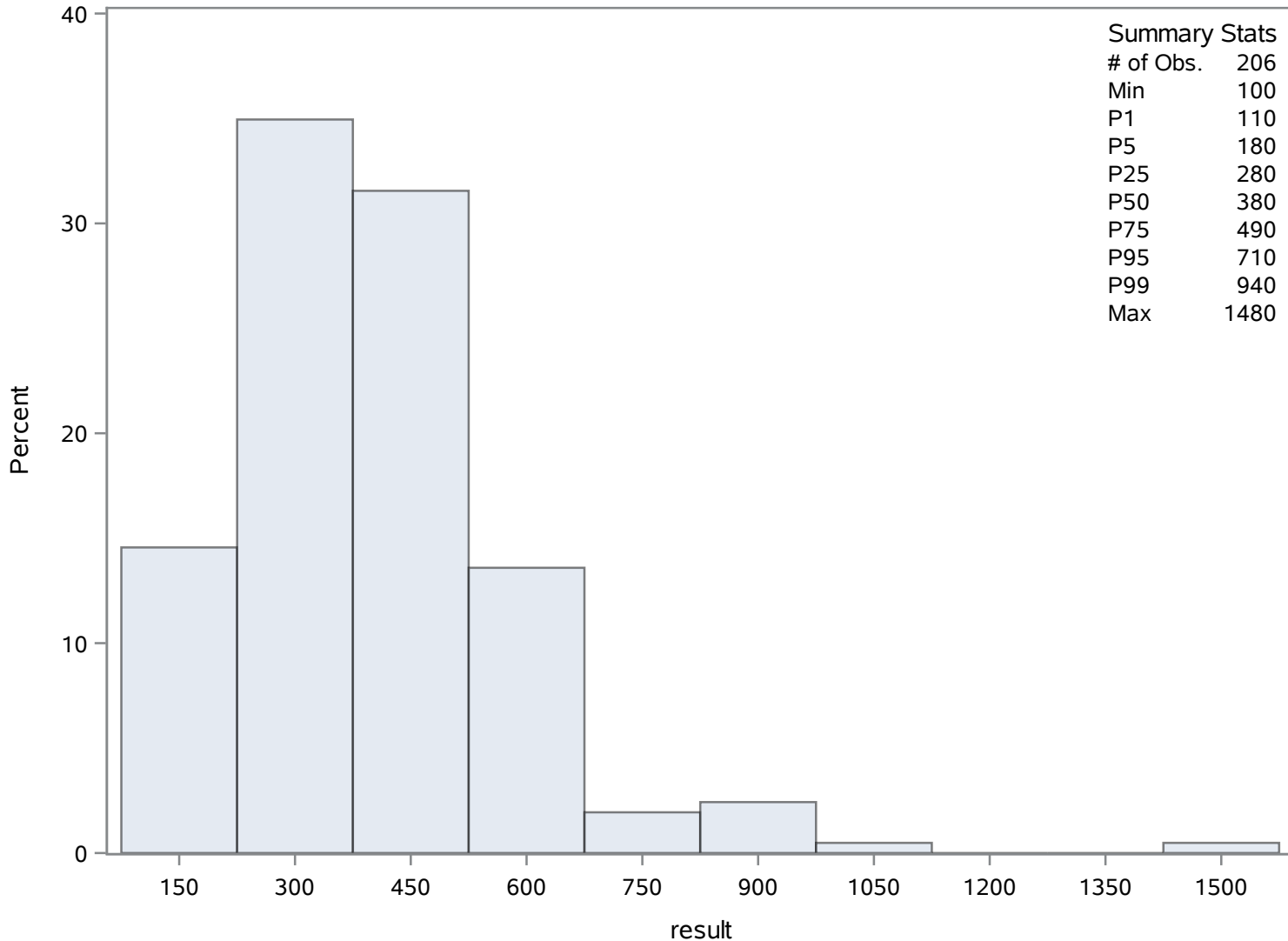
Source: COAST

Chassahowitzka Hernando 6

Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.01077778	Sum Observations	0.097
Std Deviation	0.00227913	Variance	5.19444E-6
Skewness	-0.3827868	Kurtosis	-0.5946001
Uncorrected SS	0.001087	Corrected SS	0.00004156
Coeff Variation	21.1465892	Std Error Mean	0.00075971

Basic Statistical Measures			
Location		Variability	
Mean	0.010778	Std Deviation	0.00228
Median	0.011000	Variance	5.19444E-6
Mode	0.010000	Range	0.00700
		Interquartile Range	0.00200

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.18669	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.014
99%	0.014
95%	0.014
90%	0.014
75% Q3	0.012
50% Median	0.011
25% Q1	0.010
10%	0.007
5%	0.007

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.007
0% Min	0.007

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	1325	0.011	1326
0.008	1321	0.012	1323
0.010	1322	0.012	1324
0.010	1320	0.013	1318
0.011	1326	0.014	1319

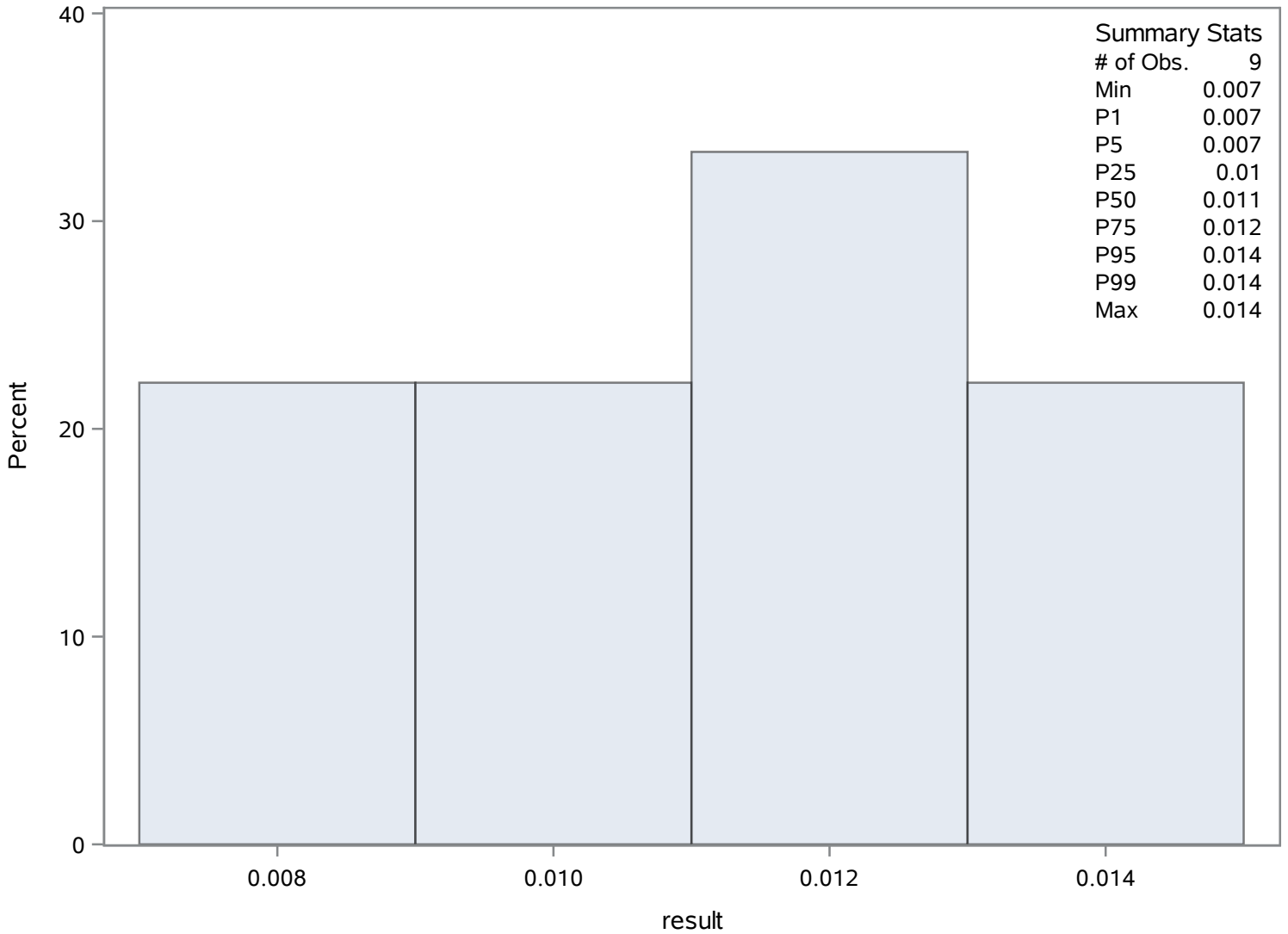
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 6 Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	11.1893204	Sum Observations	2305
Std Deviation	5.14455265	Variance	26.466422
Skewness	1.90121009	Kurtosis	6.3244113
Uncorrected SS	31217	Corrected SS	5425.6165
Coeff Variation	45.9773469	Std Error Mean	0.35843797

Basic Statistical Measures			
Location		Variability	
Mean	11.18932	Std Deviation	5.14455
Median	10.00000	Variance	26.46642
Mode	9.00000	Range	37.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	31.21689	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	39
99%	33
95%	20
90%	17
75% Q3	13
50% Median	10
25% Q1	8
10%	6
5%	5
1%	4
0% Min	2

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	1499	25	1343
3	1492	26	1401
4	1528	33	1338
4	1454	33	1340
4	1418	39	1339

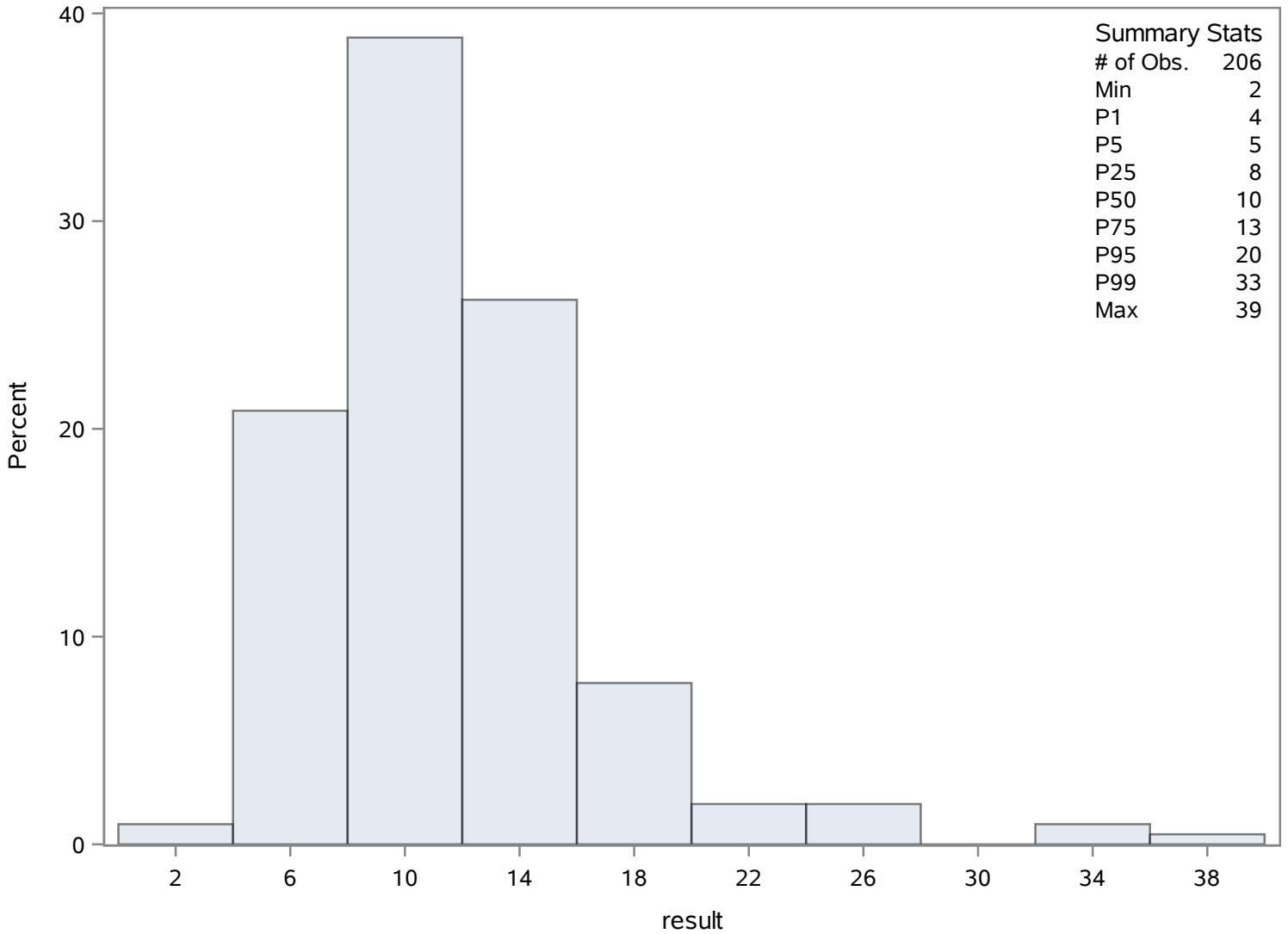
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 6 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	16.4980184	Sum Observations	3580.07
Std Deviation	4.86380626	Variance	23.6566113
Skewness	0.19498381	Kurtosis	0.16650187
Uncorrected SS	64173.8889	Corrected SS	5109.82805
Coeff Variation	29.4811542	Std Error Mean	0.33017668

Basic Statistical Measures			
Location		Variability	
Mean	16.49802	Std Deviation	4.86381
Median	16.24000	Variance	23.65661
Mode	7.00000	Range	26.80000
		Interquartile Range	6.63000

Note: The mode displayed is the smallest of 14 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	49.96724	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.72
99%	29.27
95%	24.50
90%	22.40
75% Q3	19.78
50% Median	16.24
25% Q1	13.15
10%	10.15
5%	8.08

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	5.85
0% Min	4.92

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.92	1606	25.28	1652
5.21	1607	28.81	1581
5.85	1630	29.27	1592
7.00	1540	31.30	1557
7.00	1539	31.72	1593

Chassahowitzka River - Fixed Station

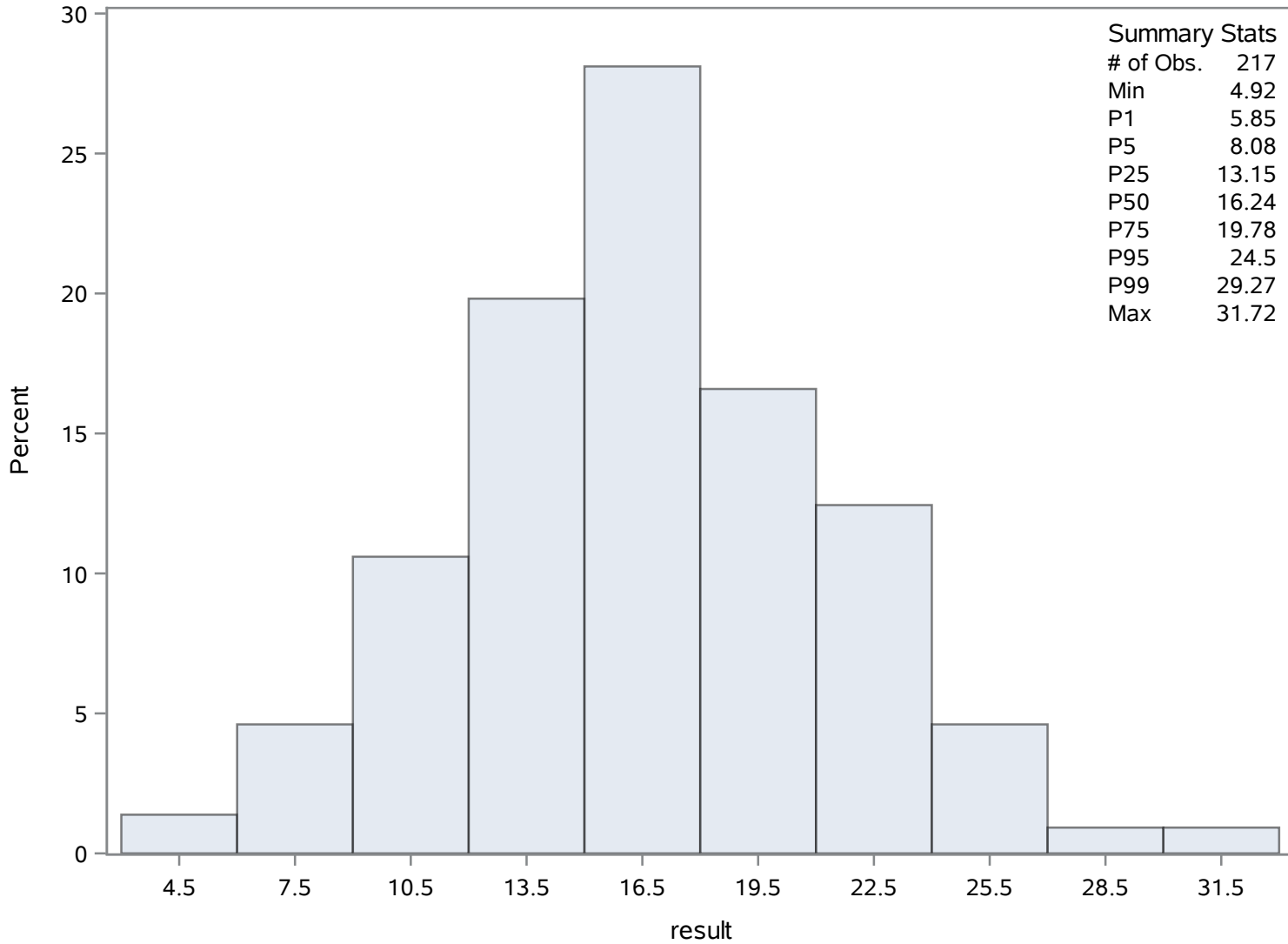
Source: COAST

Chassahowitzka Hernando 6

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	0.91095238	Sum Observations	19.13
Std Deviation	0.19209125	Variance	0.03689905
Skewness	-0.9767796	Kurtosis	1.55262047
Uncorrected SS	18.1645	Corrected SS	0.73798095
Coeff Variation	21.0868594	Std Error Mean	0.04191775

Basic Statistical Measures			
Location		Variability	
Mean	0.910952	Std Deviation	0.19209
Median	0.960000	Variance	0.03690
Mode	0.900000	Range	0.81000
		Interquartile Range	0.20000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	21.7319	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.20
99%	1.20
95%	1.20
90%	1.10
75% Q3	1.00
50% Median	0.96
25% Q1	0.80
10%	0.70
5%	0.60

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.39
0% Min	0.39

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.39	1769	1.03	1763
0.60	1764	1.05	1770
0.70	1751	1.10	1757
0.75	1761	1.20	1756
0.80	1752	1.20	1760

Chassahowitzka River - Fixed Station

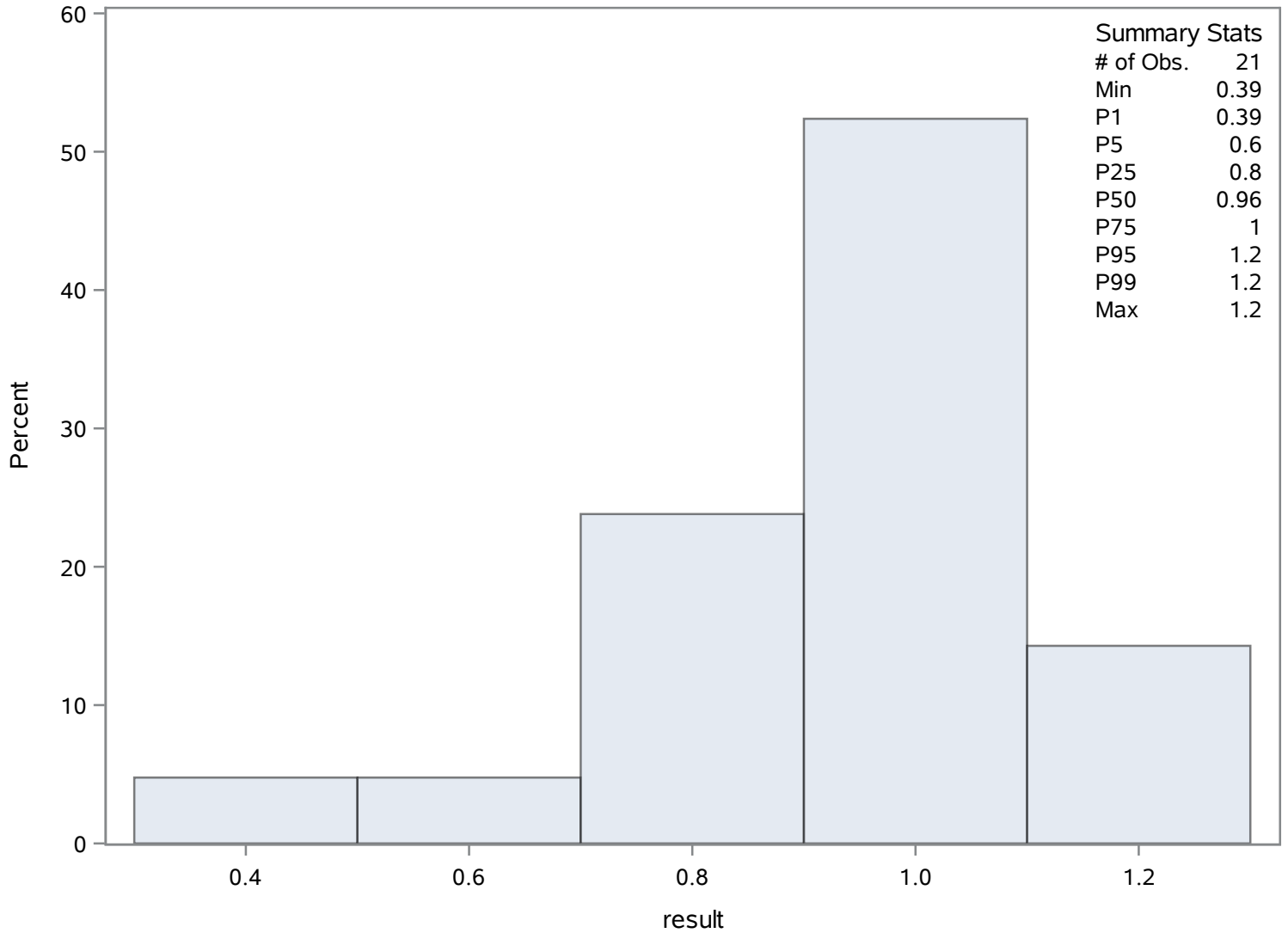
Source: COAST

Chassahowitzka Hernando 6

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	23.6874537	Sum Observations	5116.49
Std Deviation	5.73783976	Variance	32.9228051
Skewness	-0.5208715	Kurtosis	-0.6600842
Uncorrected SS	128275.023	Corrected SS	7078.4031
Coeff Variation	24.2231176	Std Error Mean	0.39041055

Basic Statistical Measures			
Location		Variability	
Mean	23.68745	Std Deviation	5.73784
Median	24.72500	Variance	32.92281
Mode	22.40000	Range	24.16000
		Interquartile Range	9.38500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	60.67319	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.350
99%	31.700
95%	31.200
90%	30.470
75% Q3	28.600
50% Median	24.725
25% Q1	19.215
10%	15.710
5%	13.360
1%	9.940
0% Min	8.190

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.19	1933	31.55	1892
9.80	1812	31.65	1867
9.94	1932	31.70	1983
10.31	1813	31.80	1783
10.94	1909	32.35	1831

Chassahowitzka River - Fixed Station

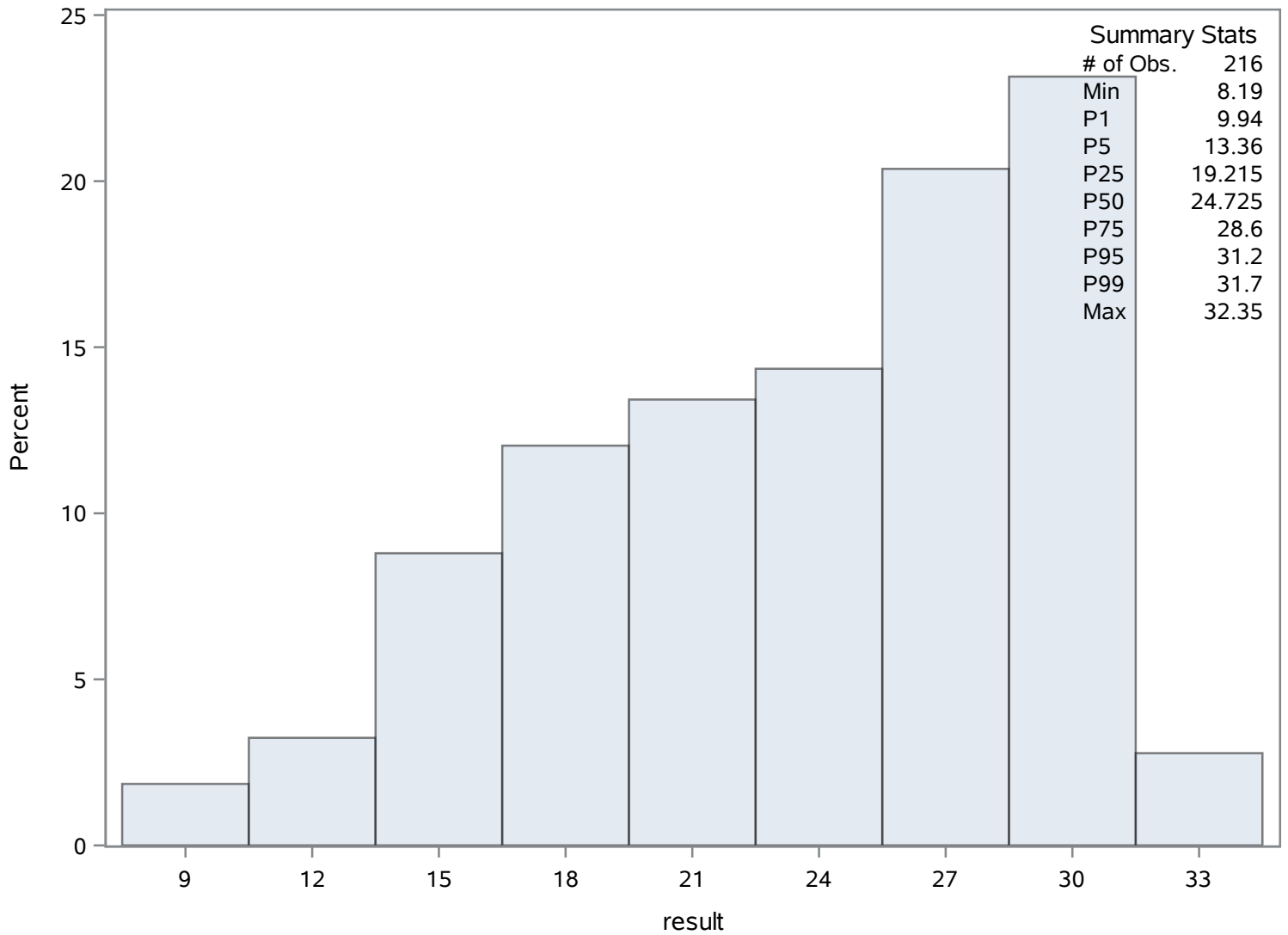
Source: COAST

Chassahowitzka Hernando 6

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	153	Sum Weights	153
Mean	7.97176471	Sum Observations	1219.68
Std Deviation	0.32130105	Variance	0.10323437
Skewness	-1.2734641	Kurtosis	6.9995377
Uncorrected SS	9738.6936	Corrected SS	15.6916235
Coeff Variation	4.03048839	Std Error Mean	0.02597565

Basic Statistical Measures			
Location		Variability	
Mean	7.971765	Std Deviation	0.32130
Median	8.010000	Variance	0.10323
Mode	8.090000	Range	2.84000
		Interquartile Range	0.34000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	306.8937	Pr > t 	<.0001
Sign	M	76.5	Pr >= M 	<.0001
Signed Rank	S	5890.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.96
99%	8.65
95%	8.41
90%	8.29
75% Q3	8.15
50% Median	8.01
25% Q1	7.81
10%	7.59
5%	7.46
1%	6.98
0% Min	6.12

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.12	2058	8.52	1988
6.98	2059	8.60	1991
7.38	2099	8.63	1990
7.42	2116	8.65	2085
7.44	2108	8.96	1987

Chassahowitzka River - Fixed Station

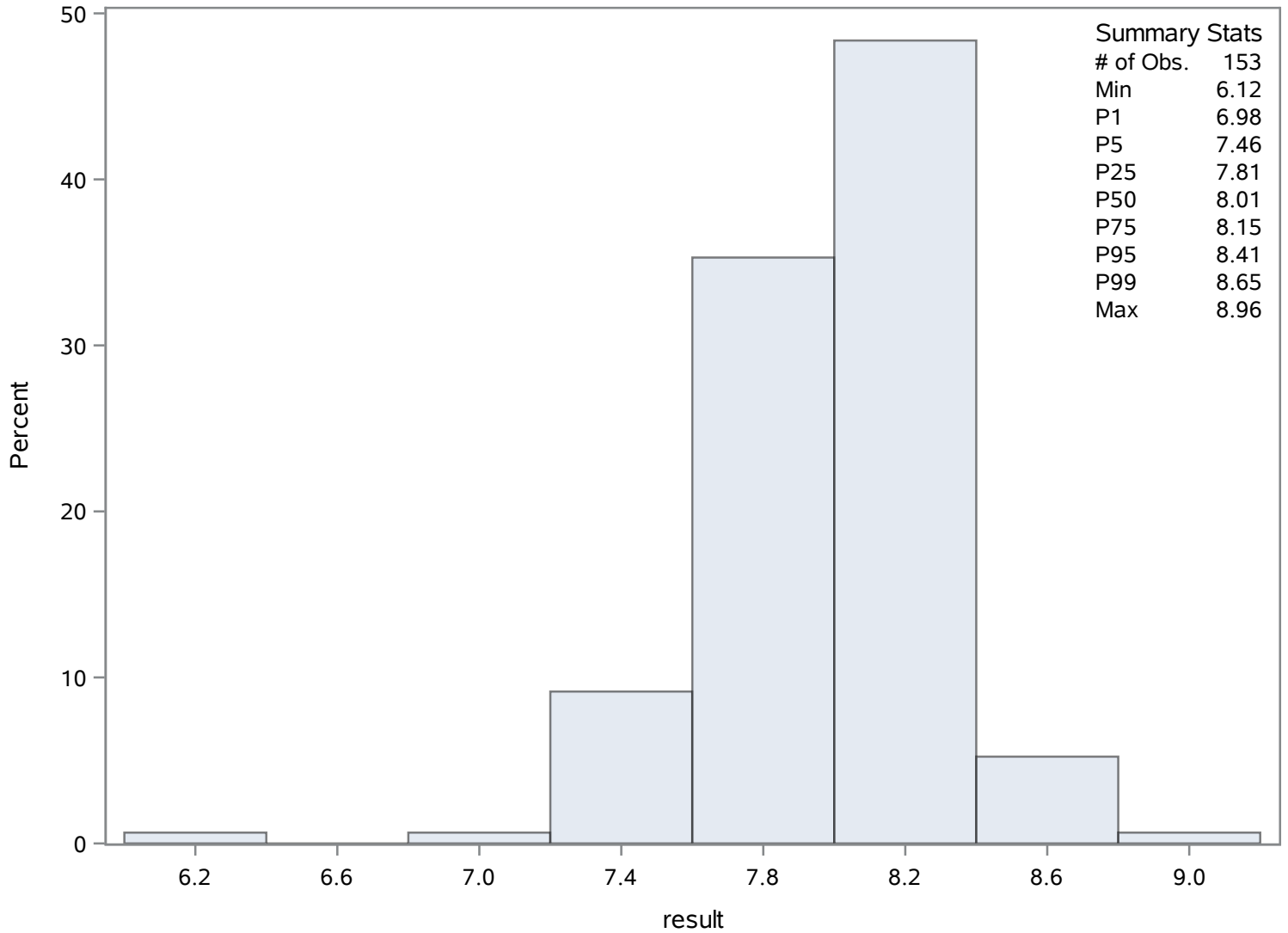
Source: COAST

Chassahowitzka Hernando 6

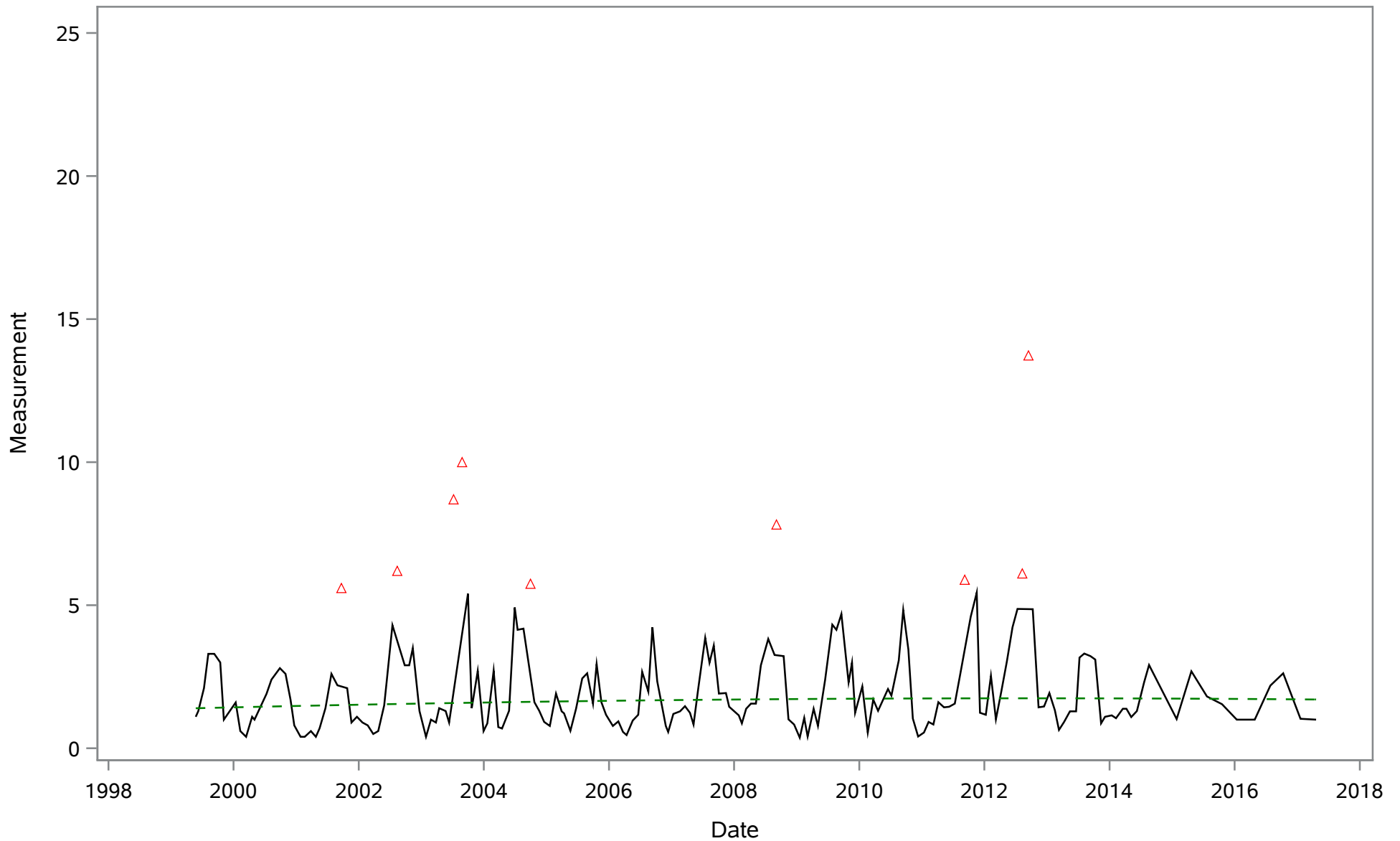
pH (Total) SU

The UNIVARIATE Procedure

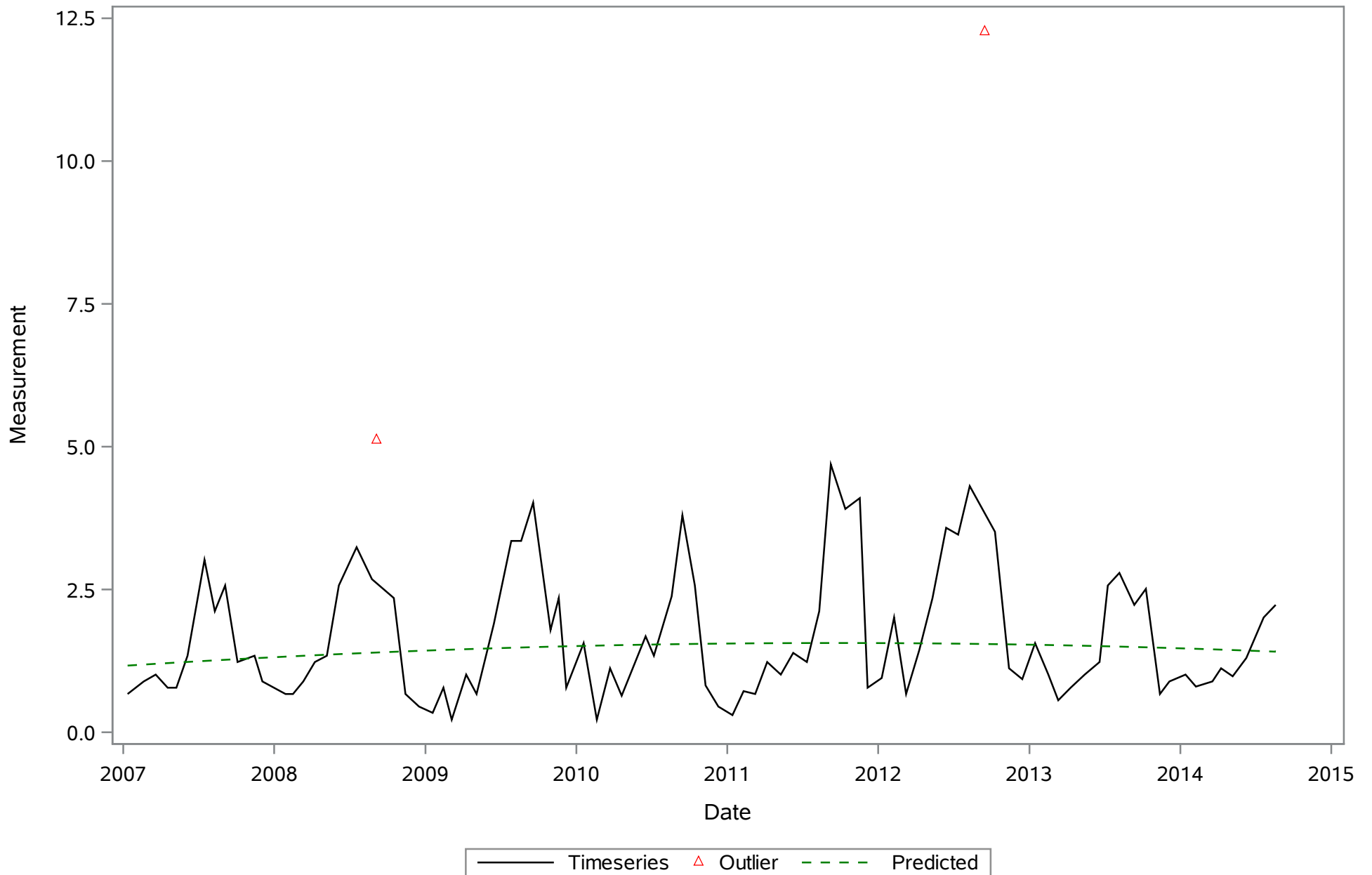
Distribution of result



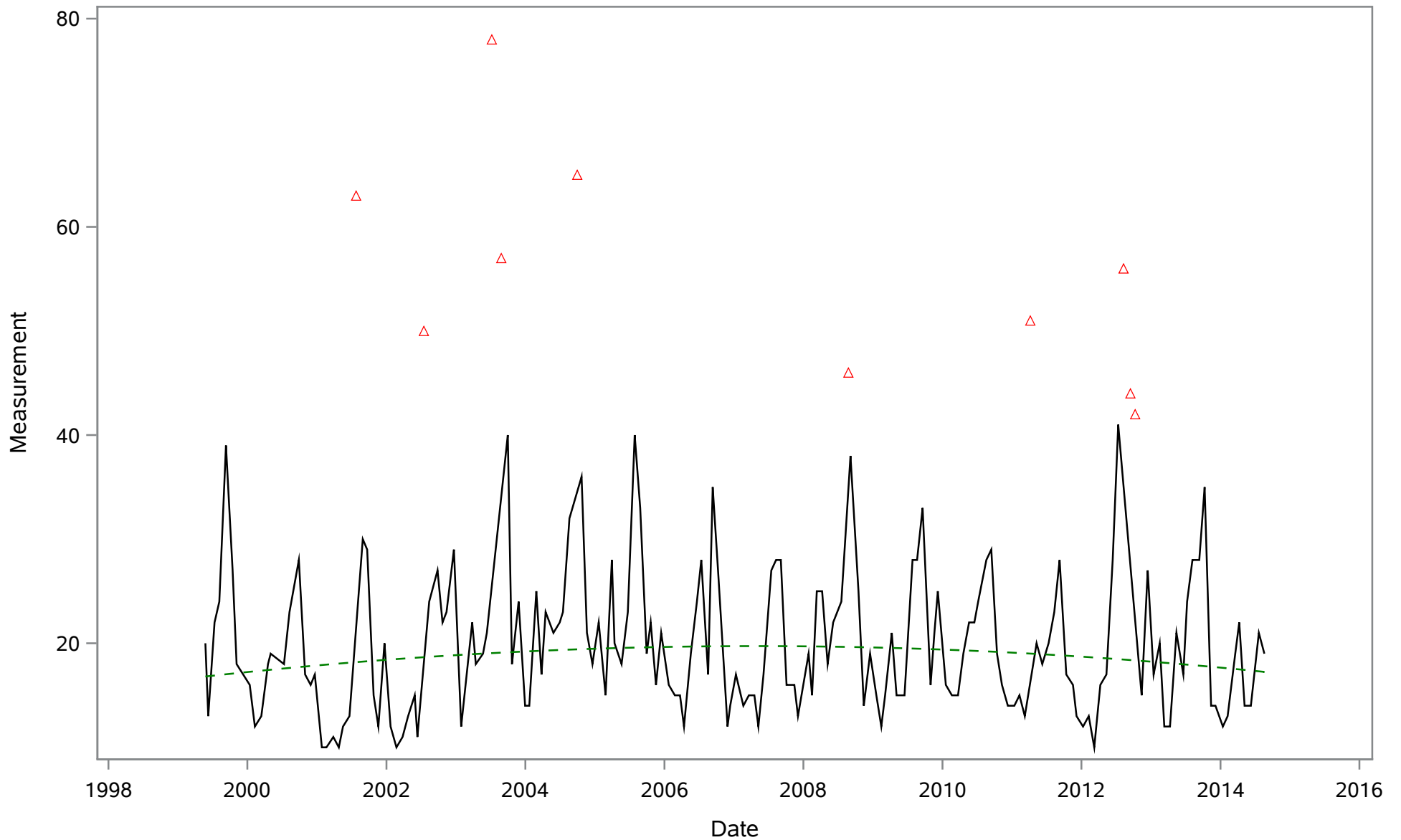
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll (Total) ug/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll a (Total) ug/L

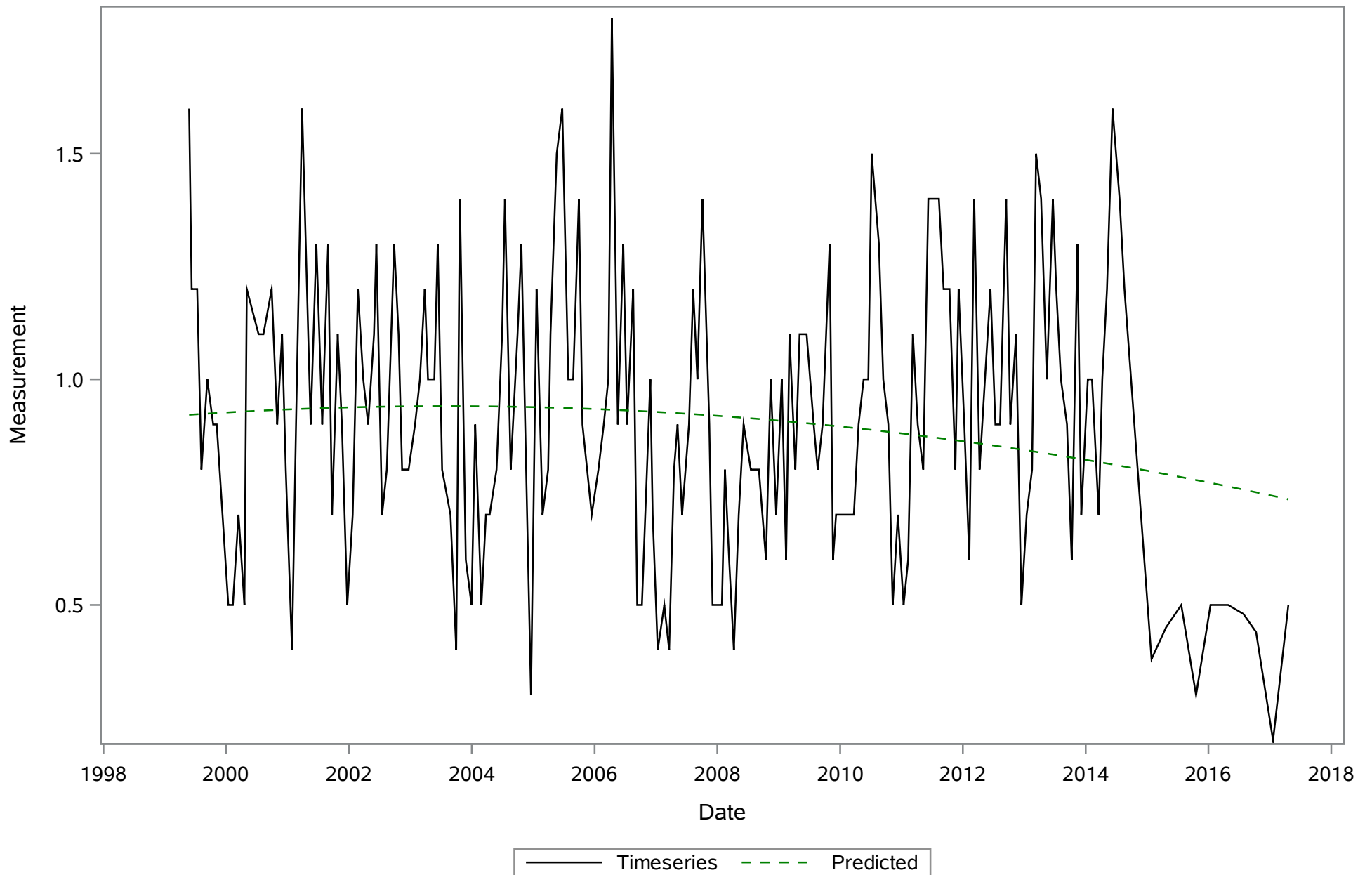


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Color (Total) PCU

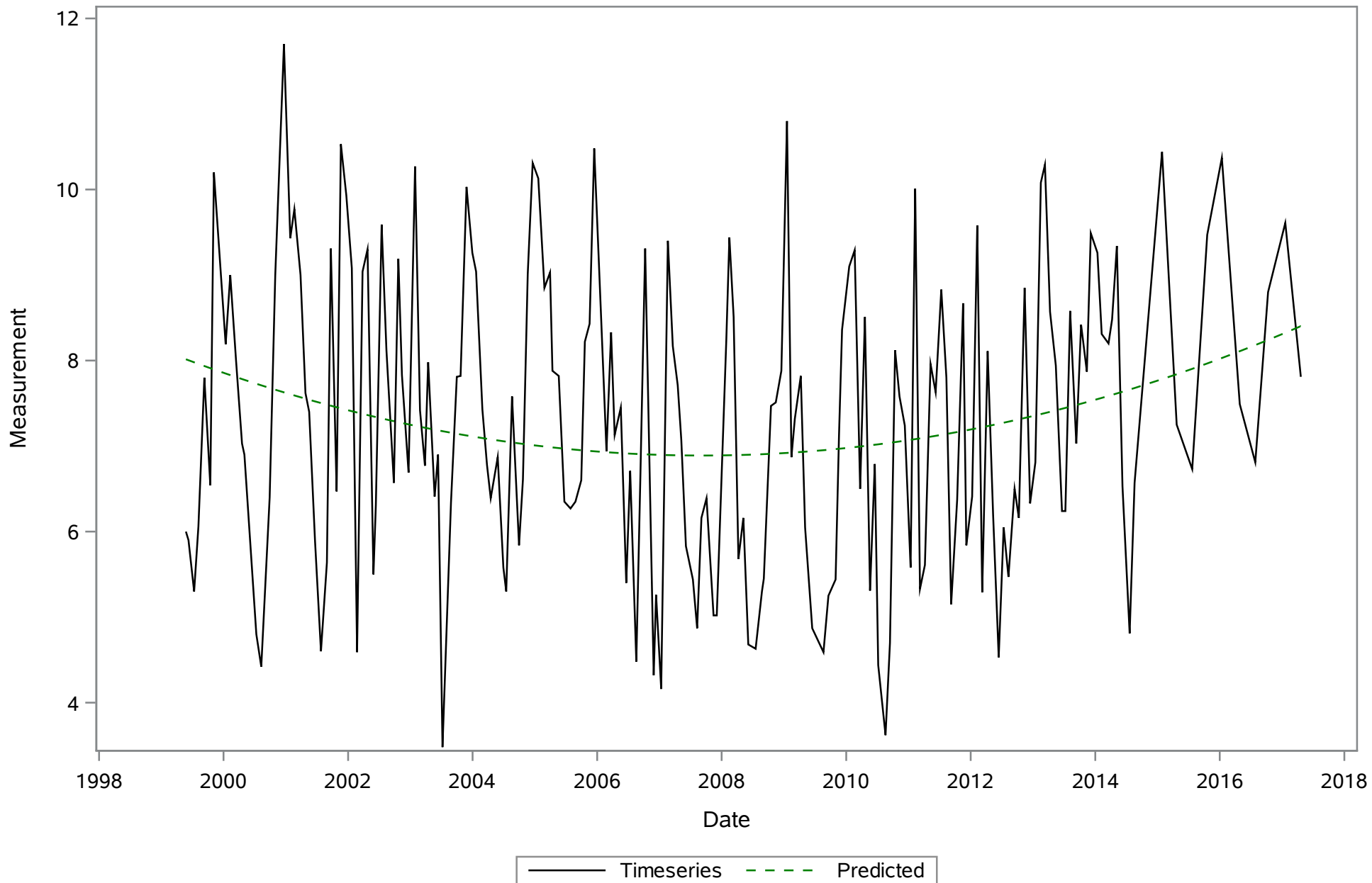


— Timeseries △ Outlier - - - Predicted

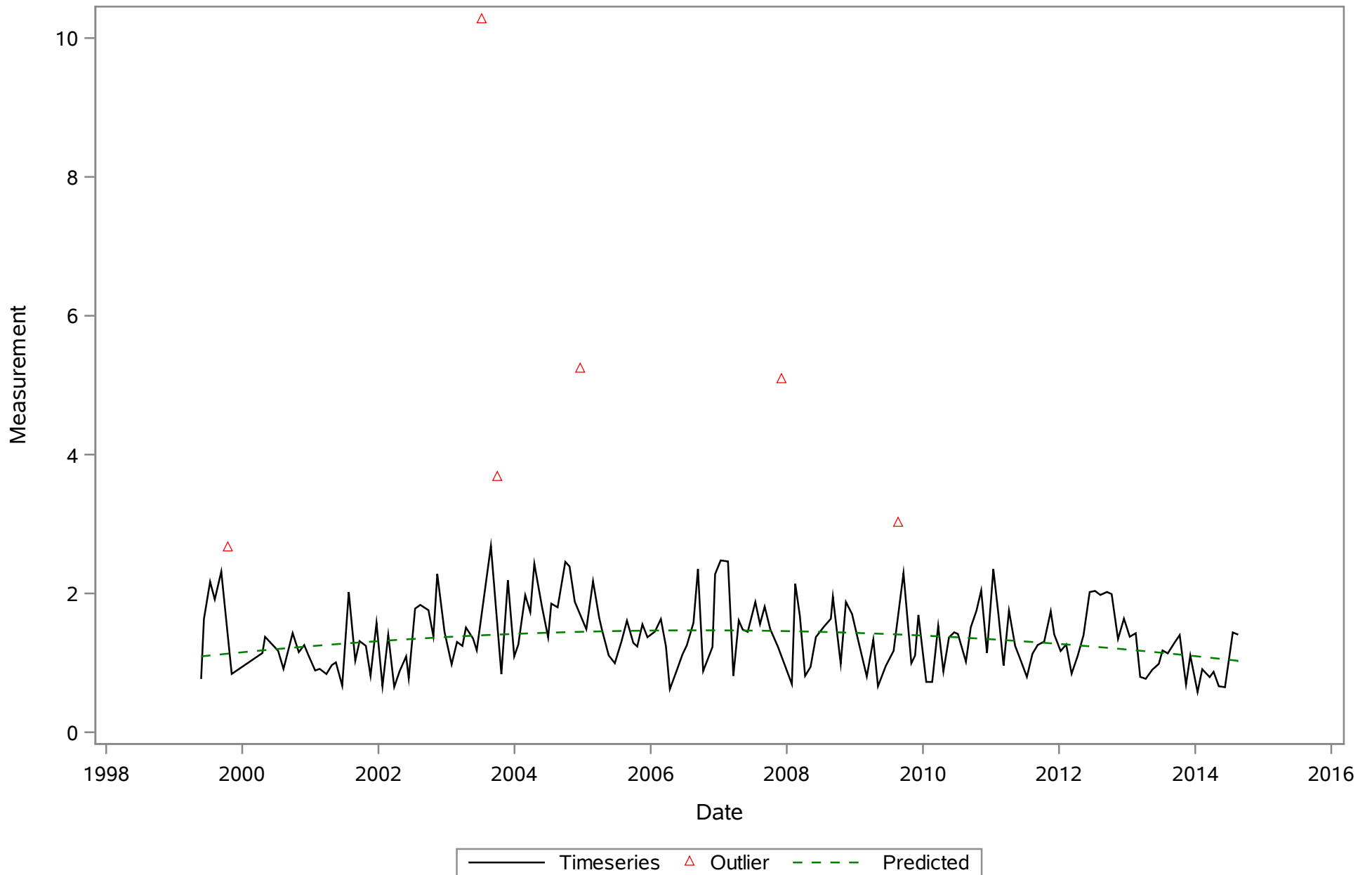
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Depth (Total) Meters



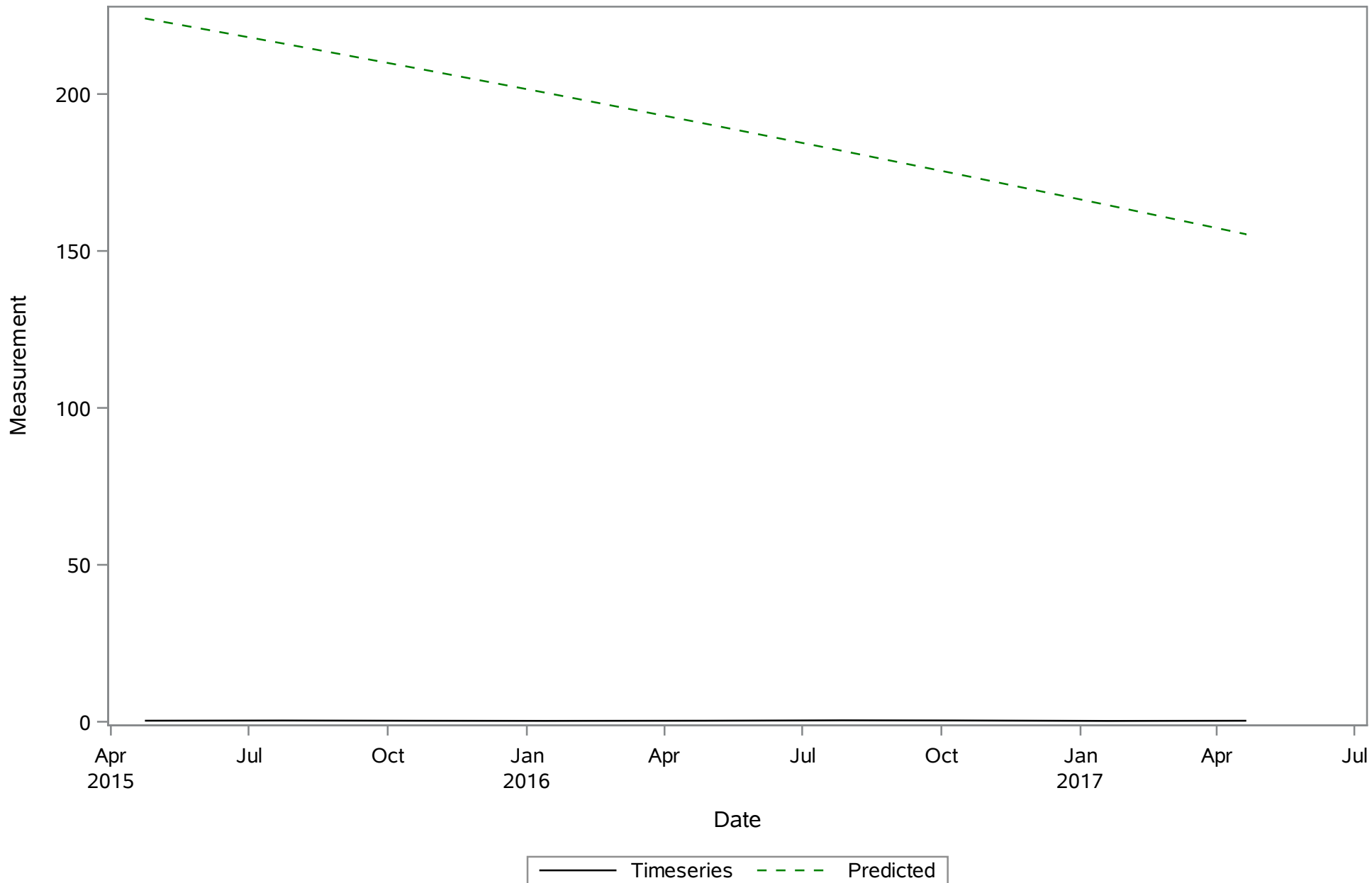
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Dissolved Oxygen (Total) mg/L



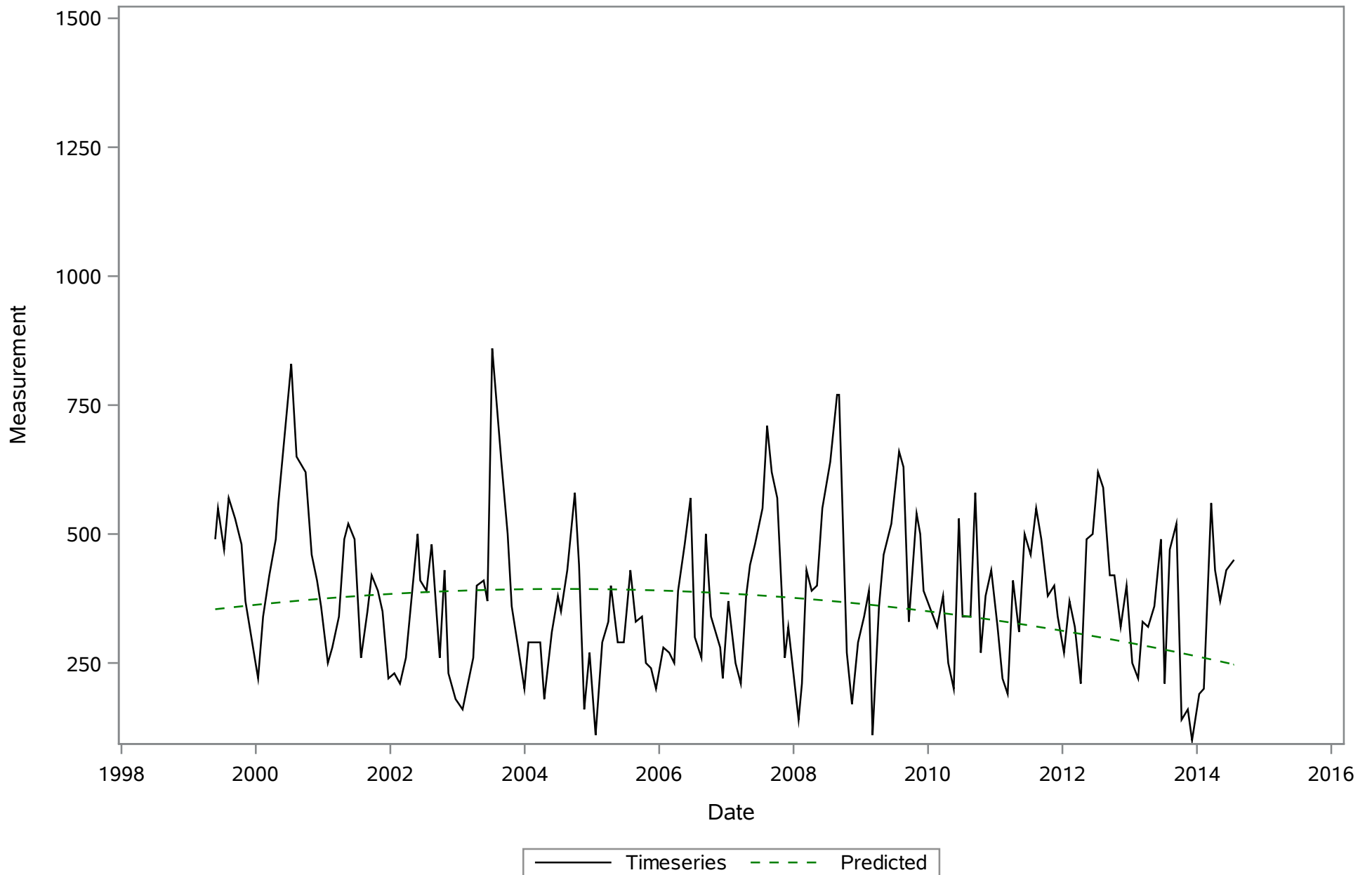
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Light, Attenuation Coefficient Kd/m



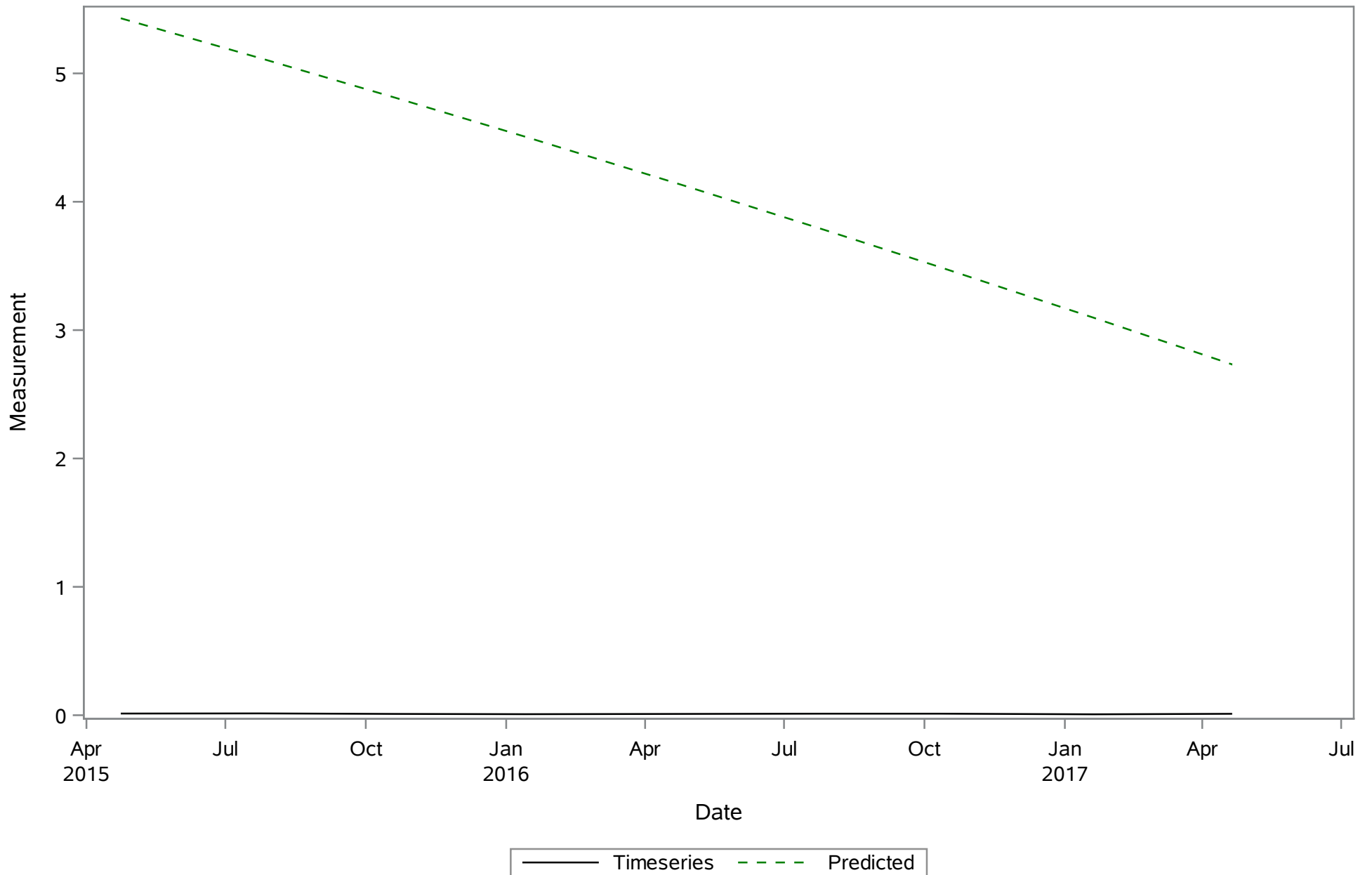
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) mg/L



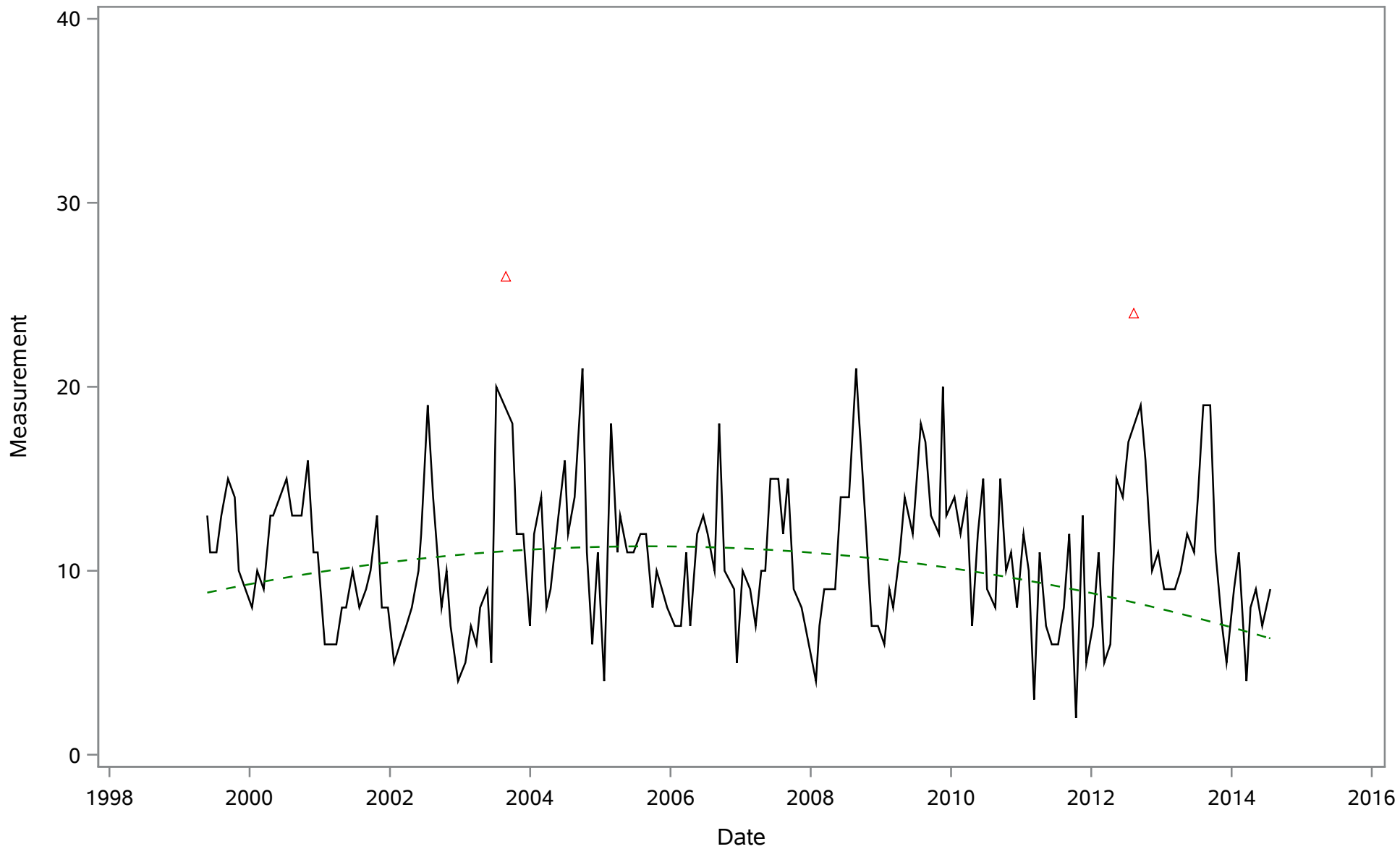
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) ug/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) mg/L

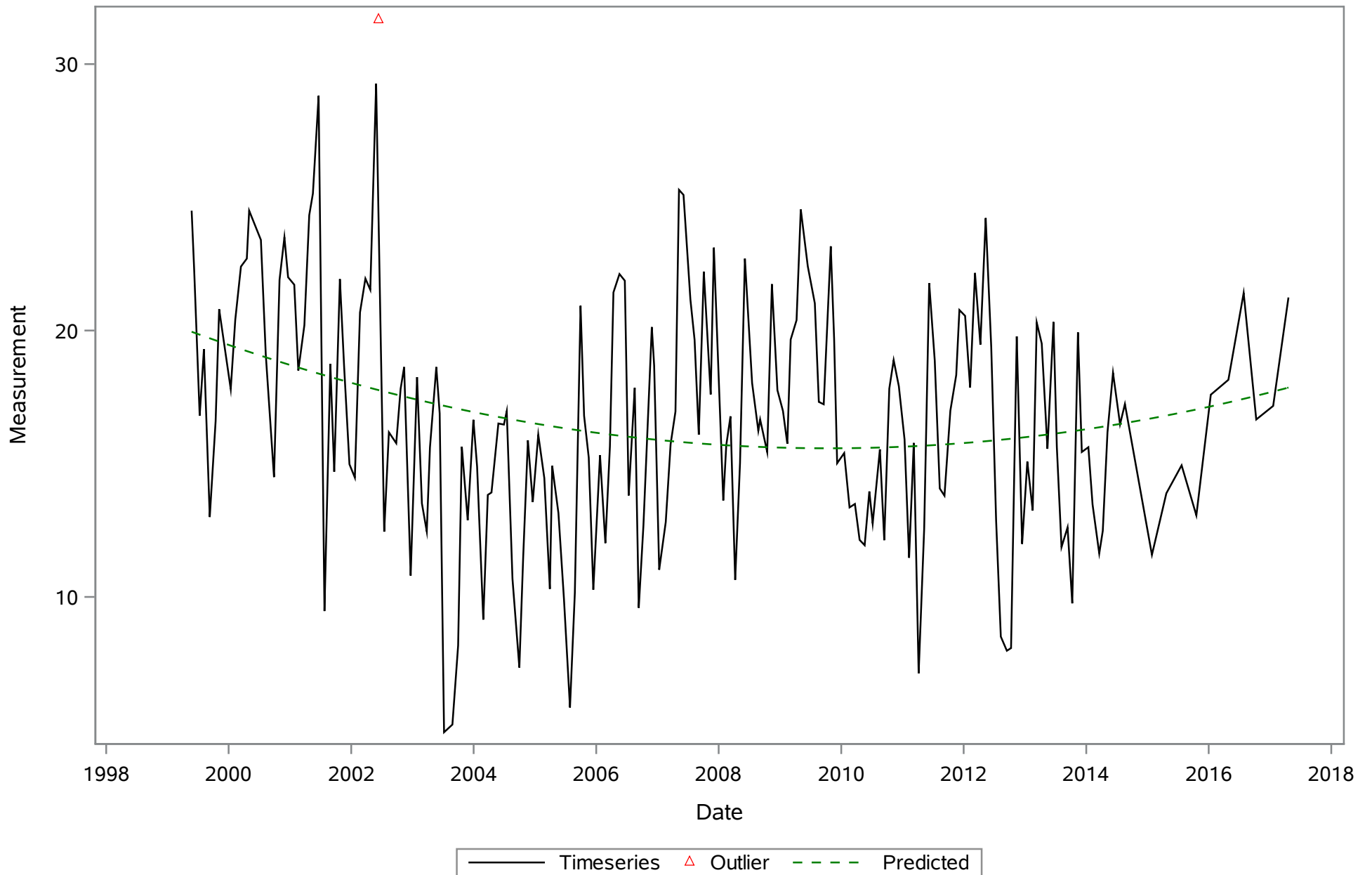


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) ug/L

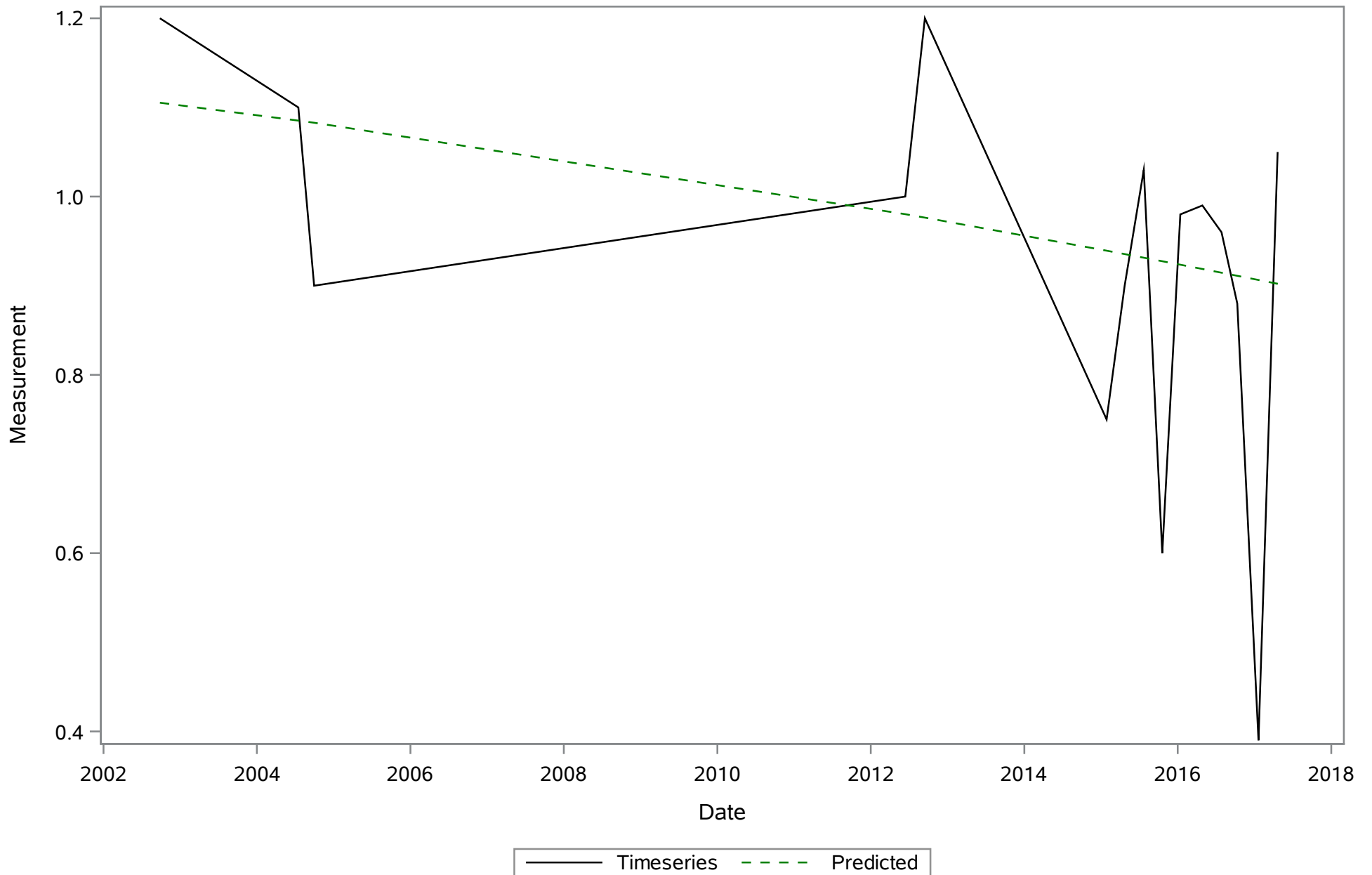


— Timeseries △ Outlier - - - Predicted

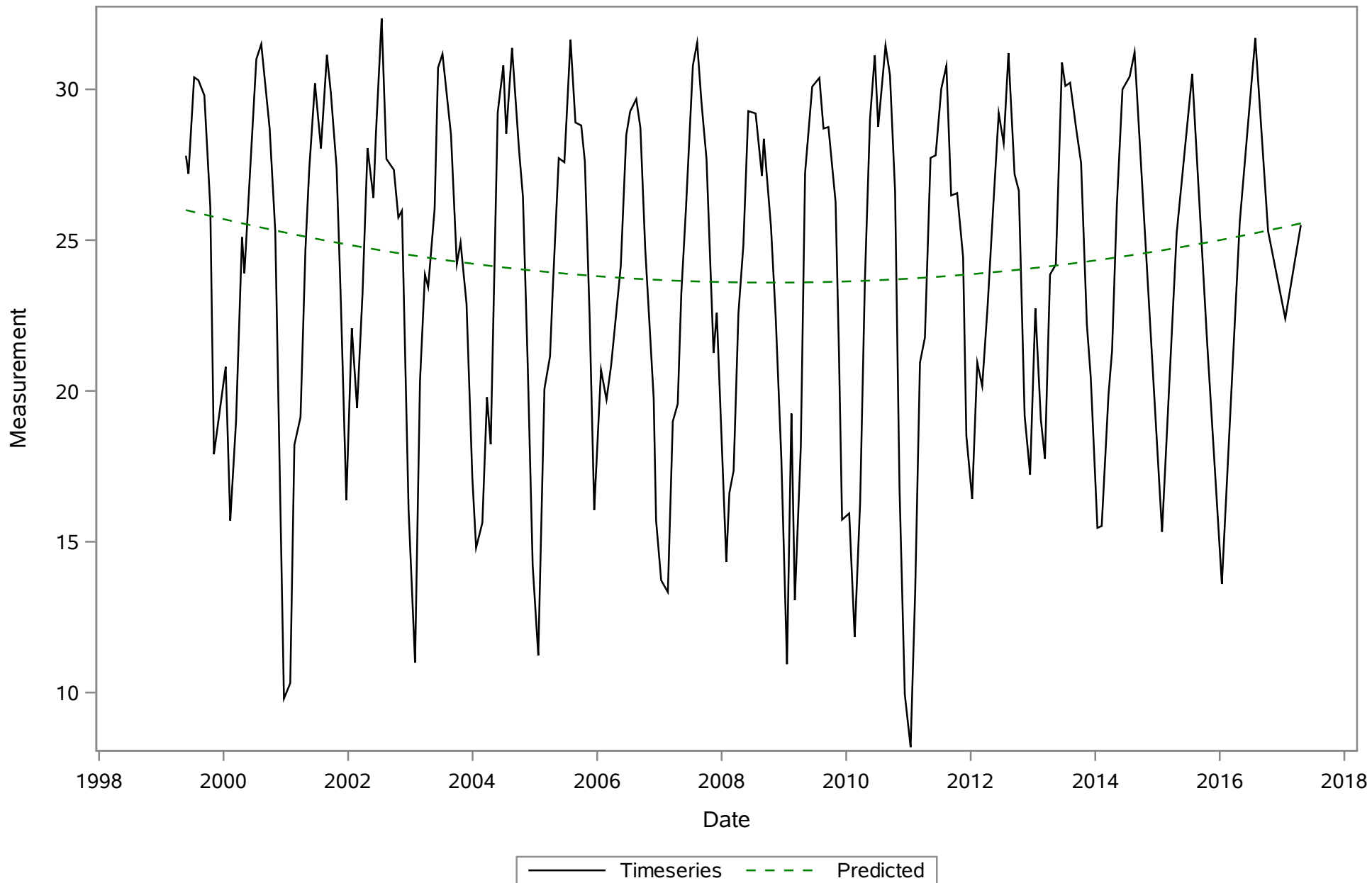
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Salinity (Total) ppt



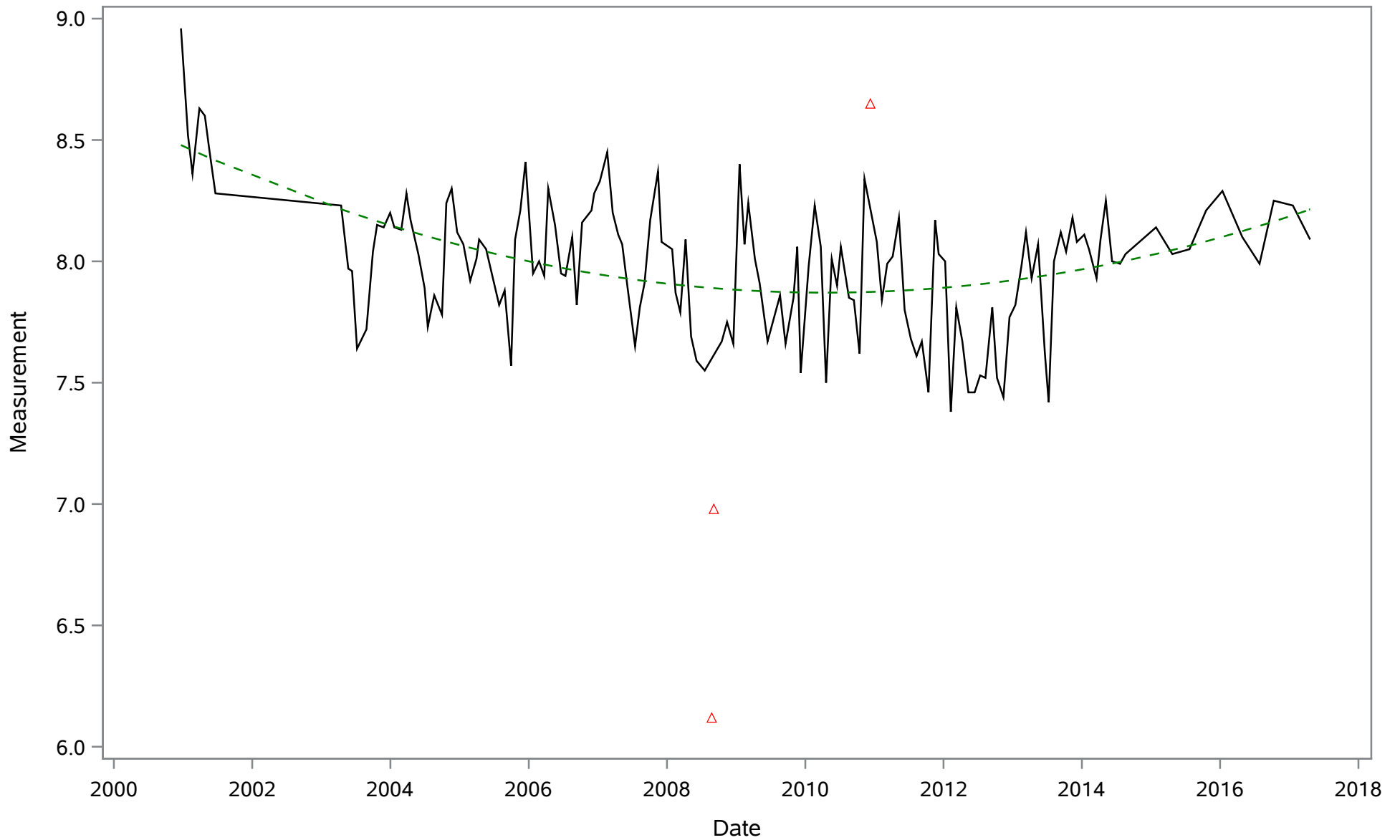
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Temperature (Total) Deg. C

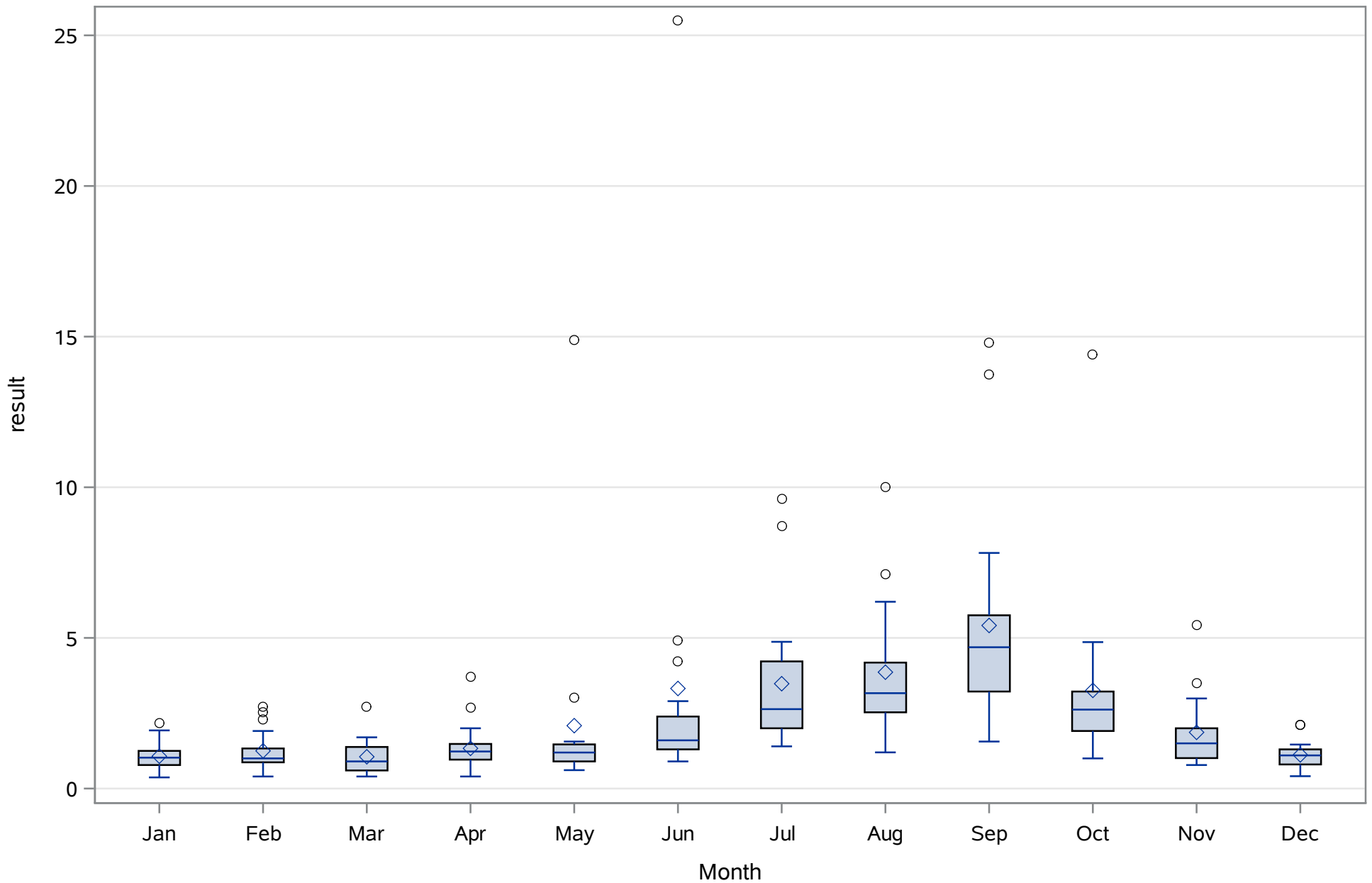


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
pH (Total) SU

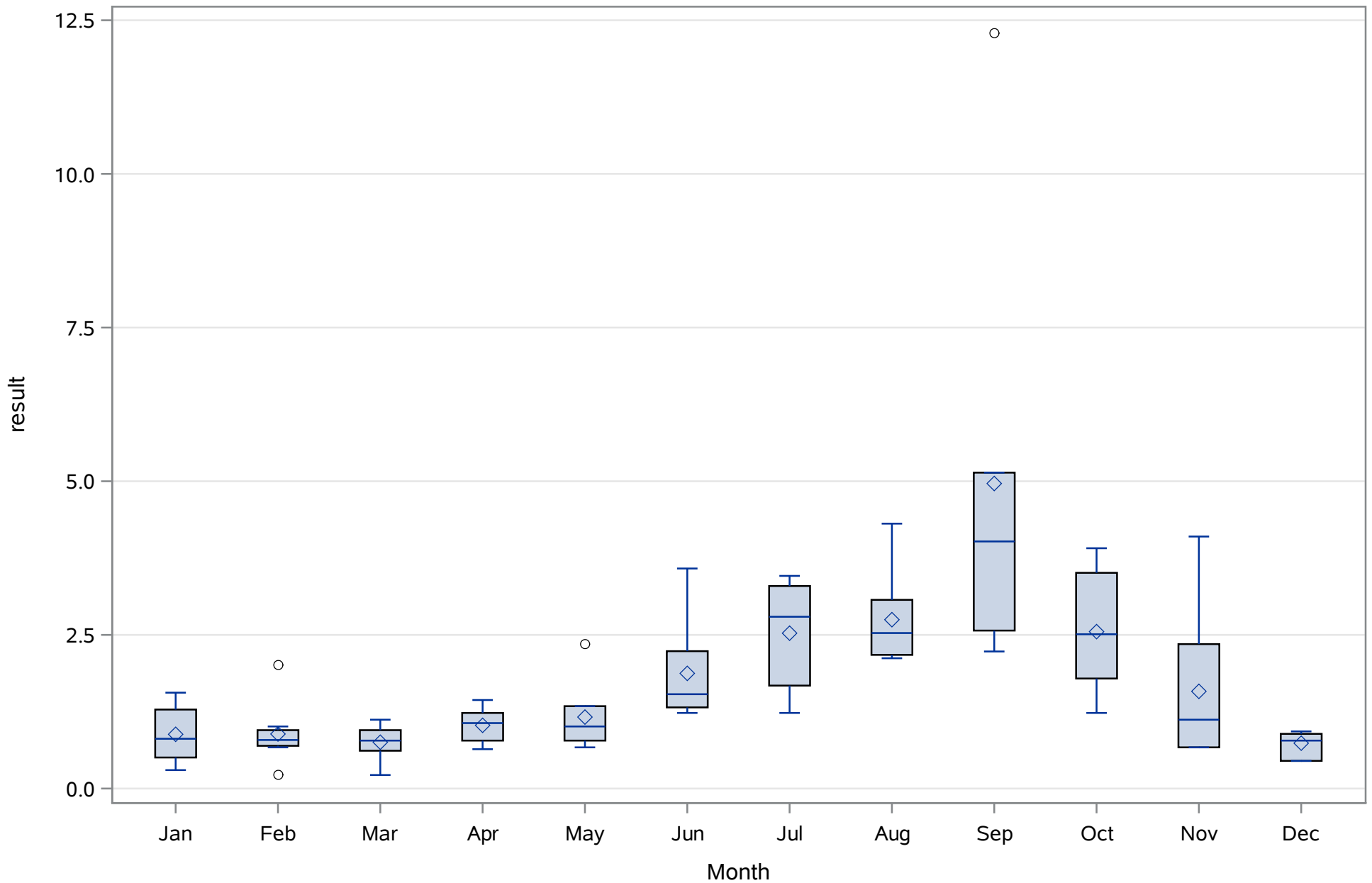


— Timeseries △ Outlier - - - Predicted

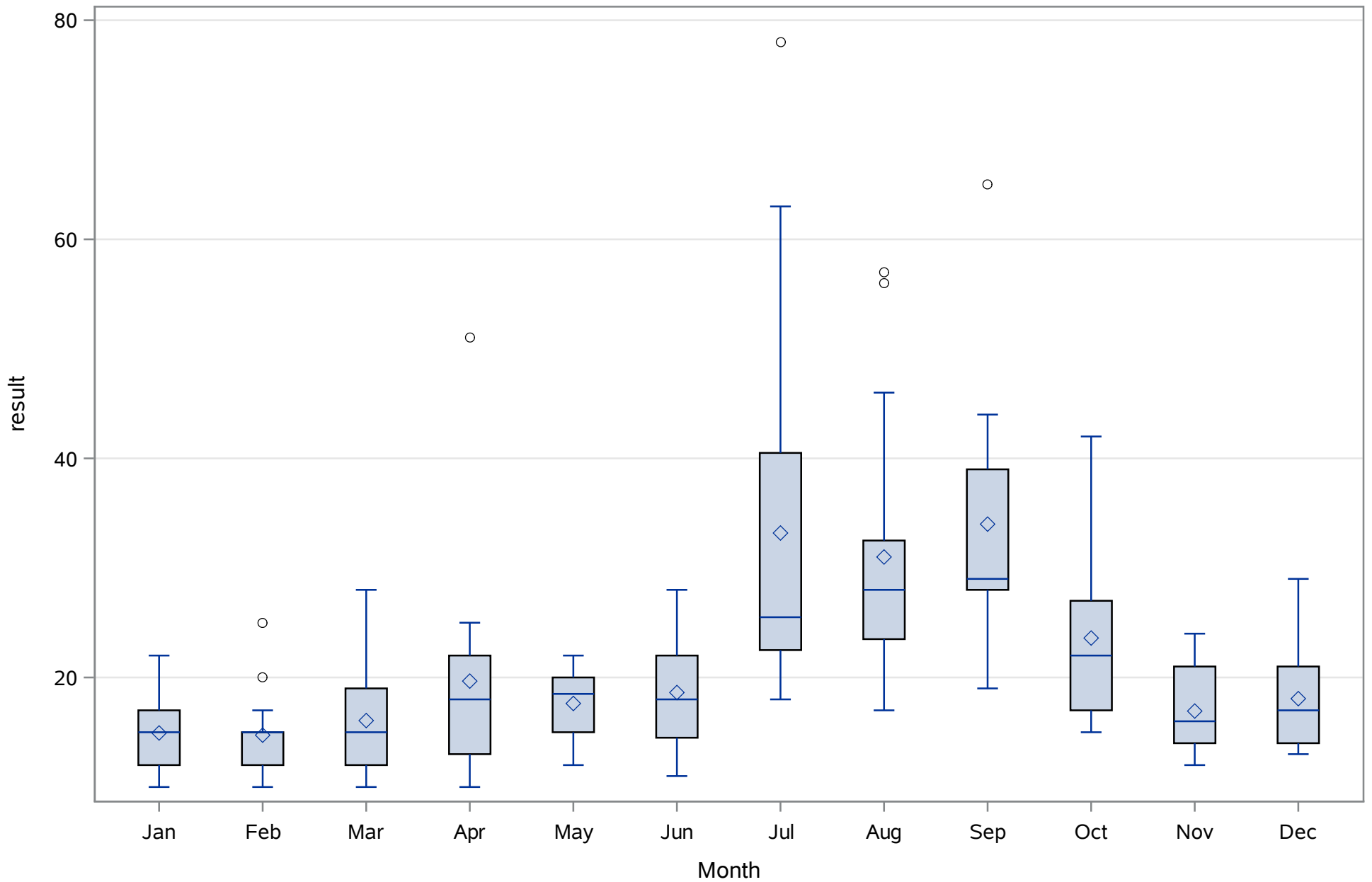
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll (Total) ug/L



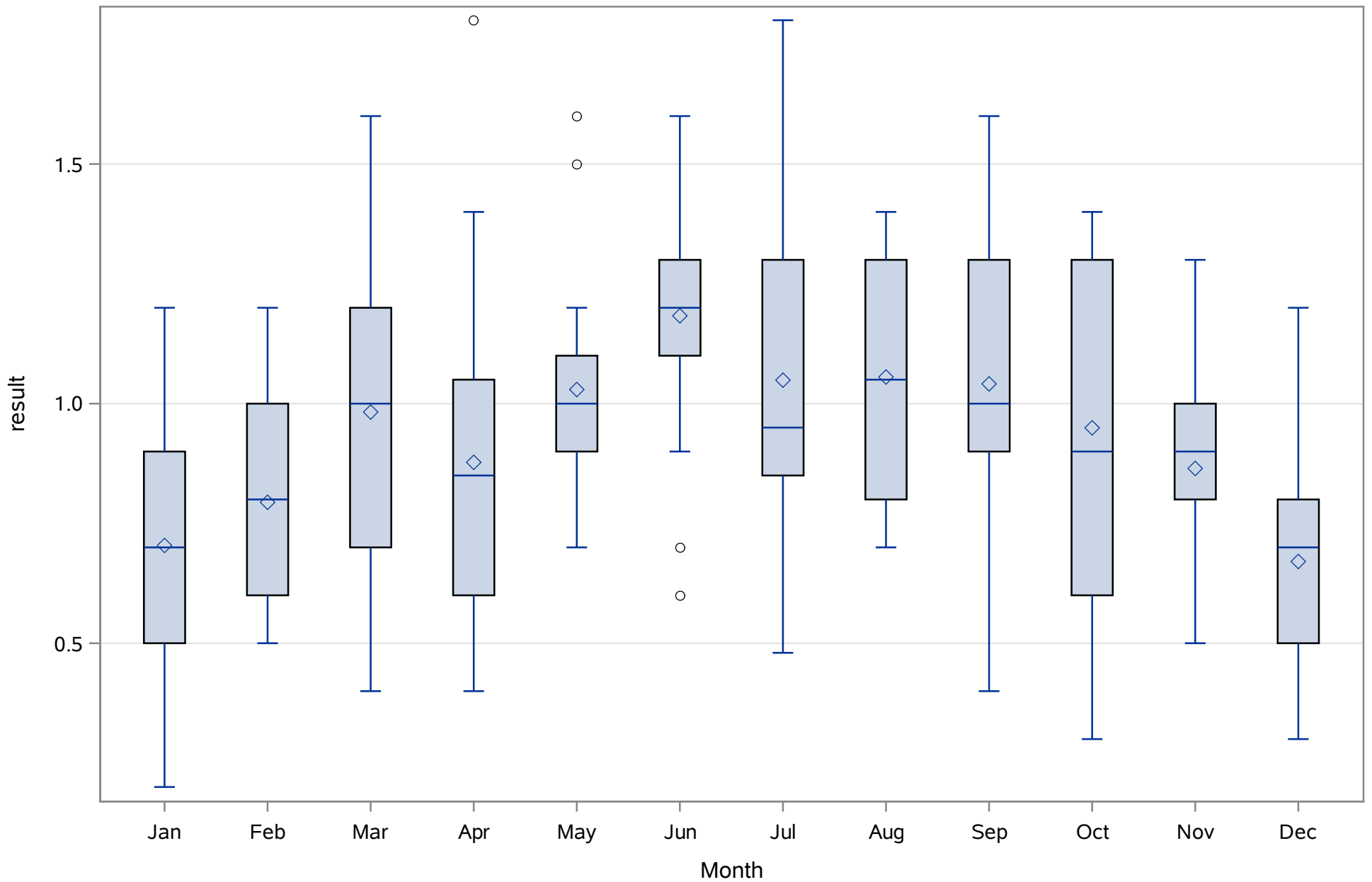
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Chlorophyll a (Total) ug/L



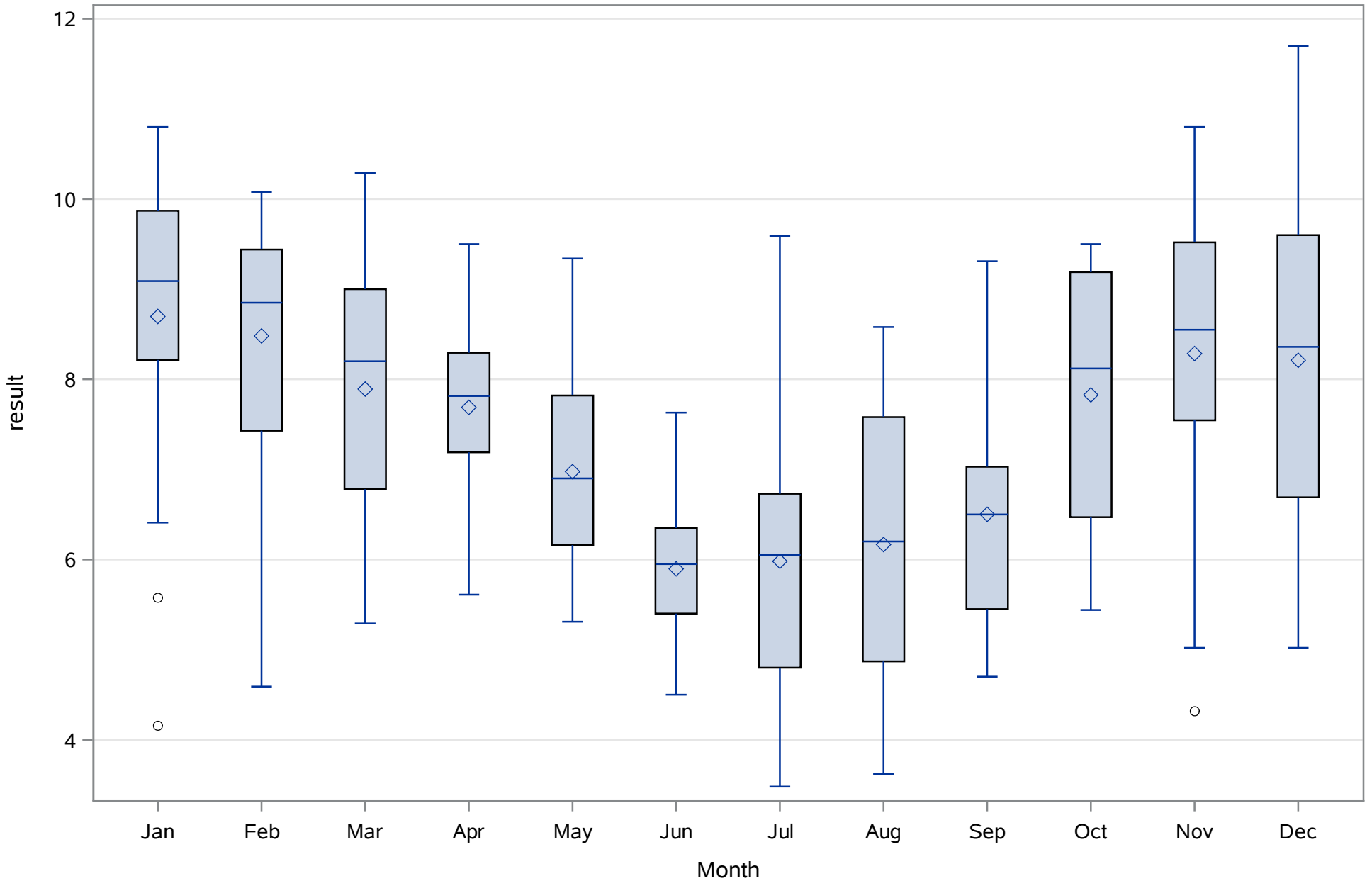
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Color (Total) PCU



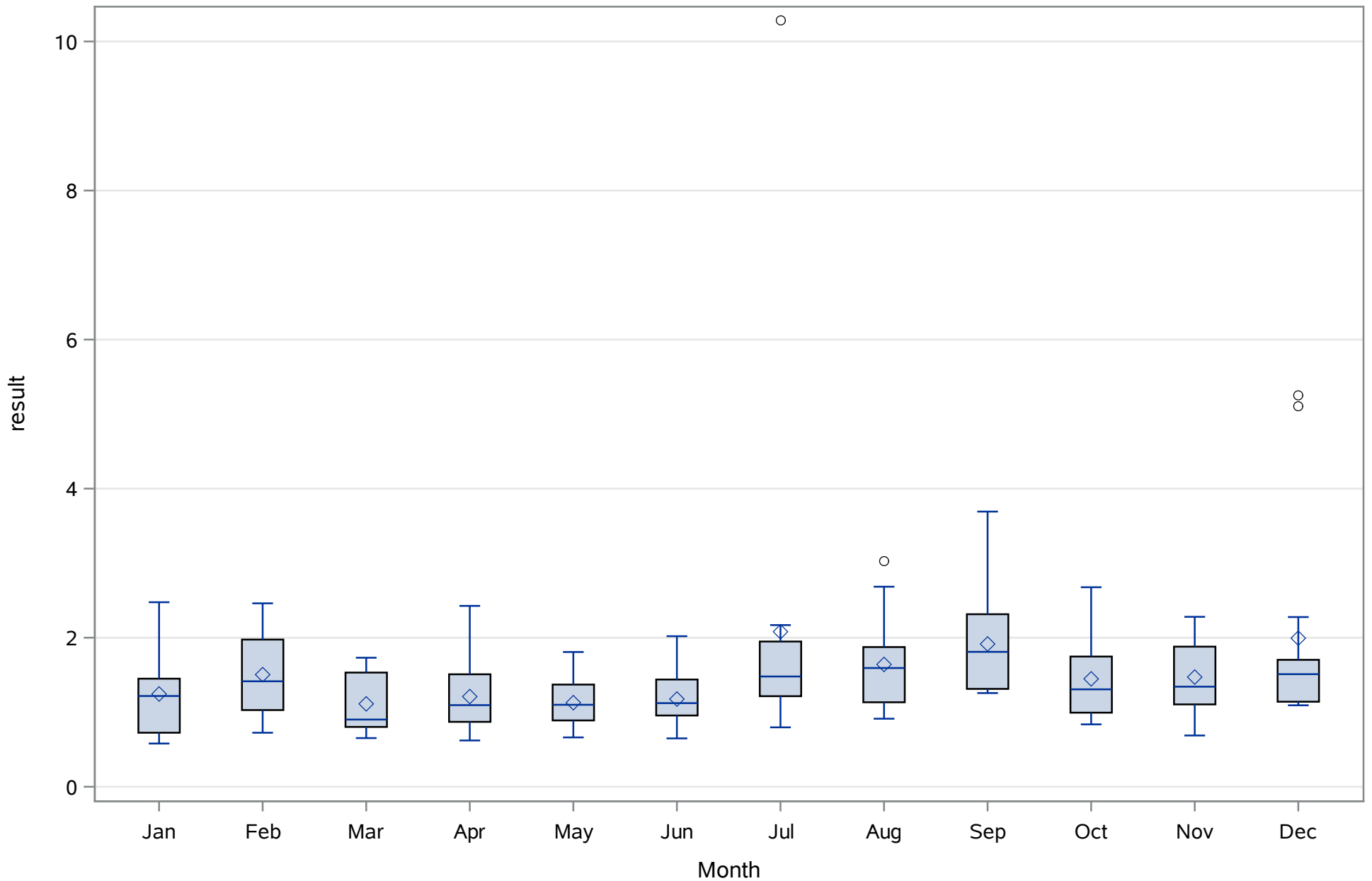
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Depth (Total) Meters



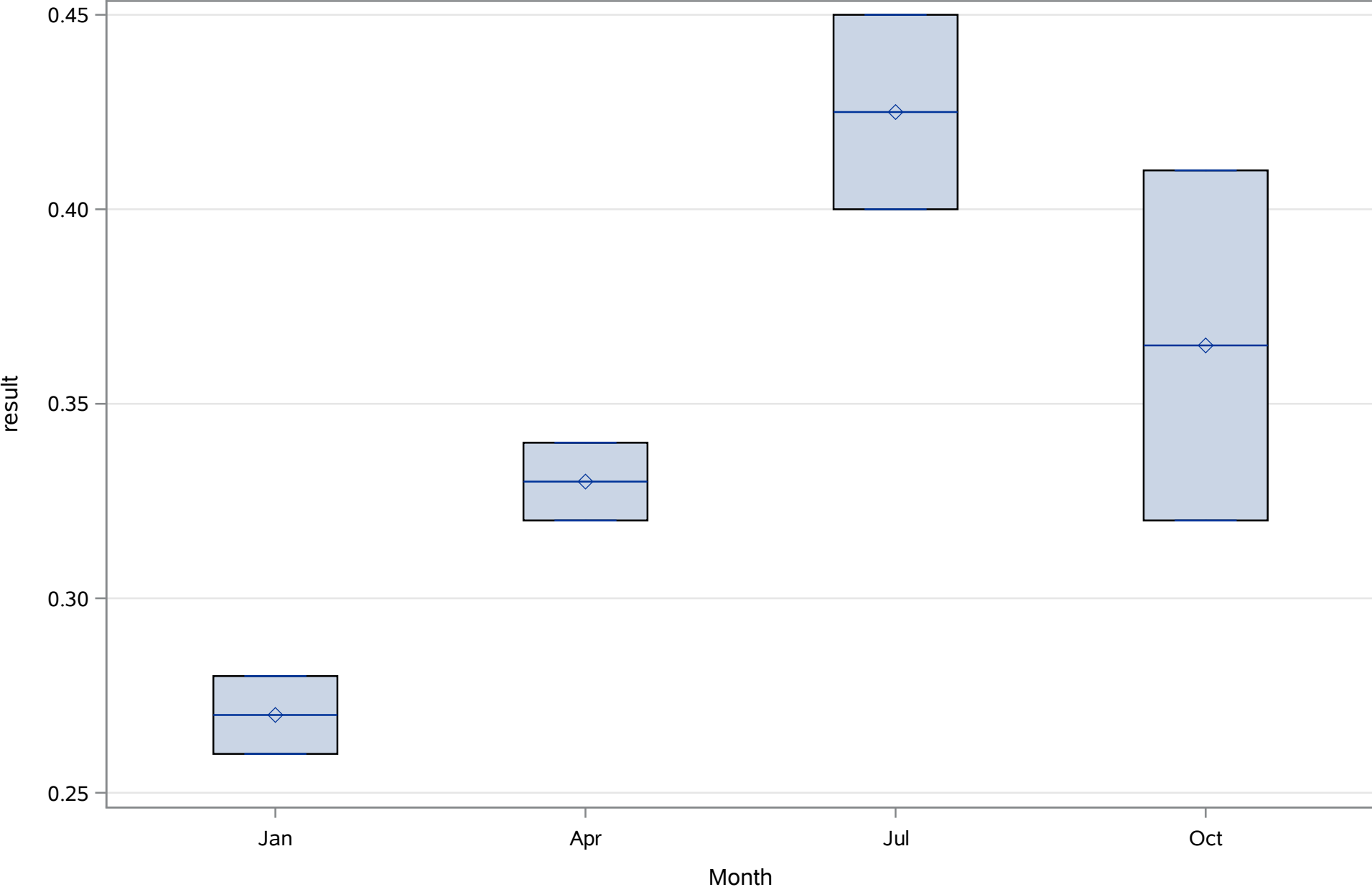
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Dissolved Oxygen (Total) mg/L



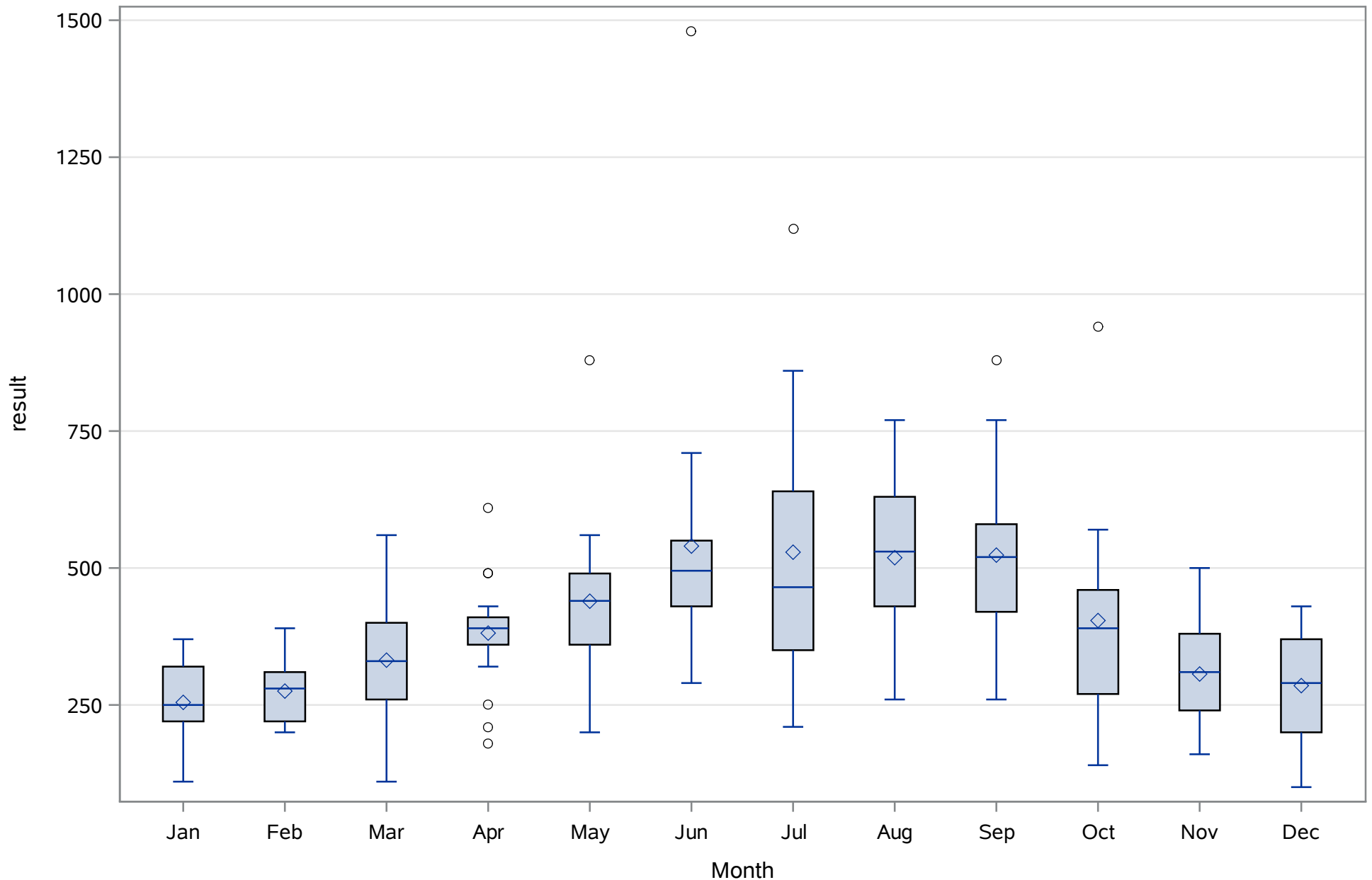
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Light, Attenuation Coefficient Kd/m



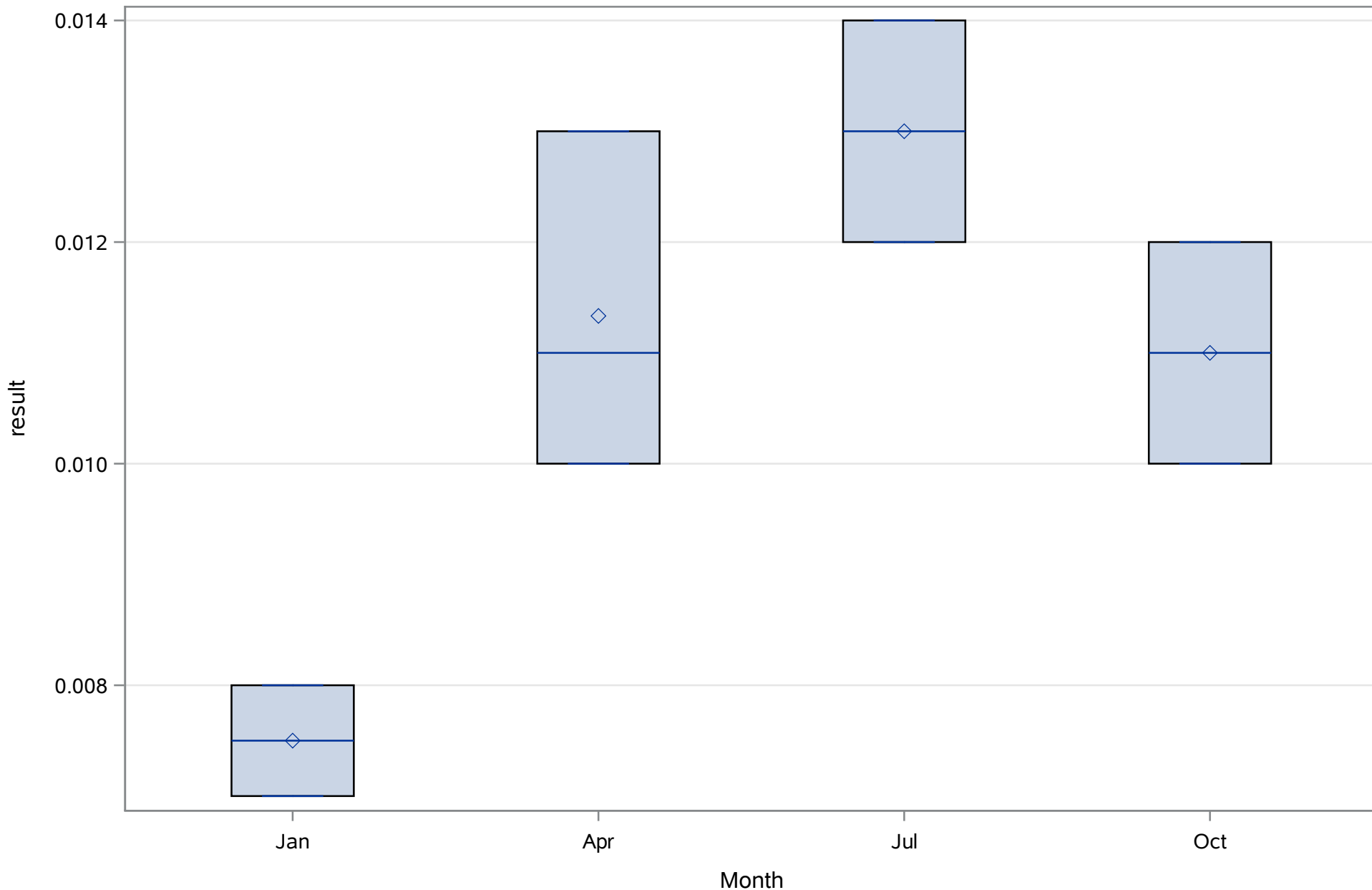
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) mg/L



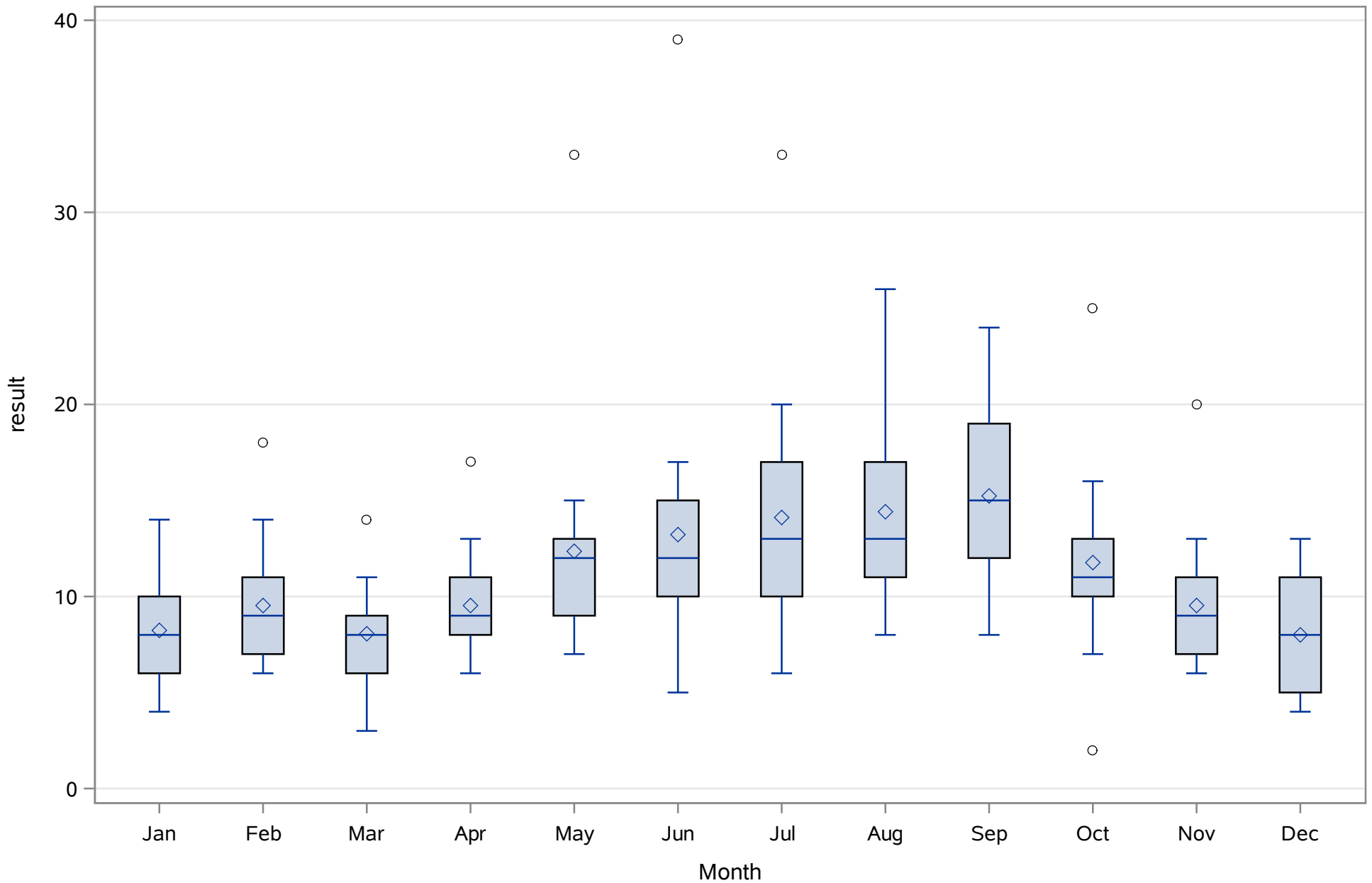
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Nitrogen- Total (Total) ug/L



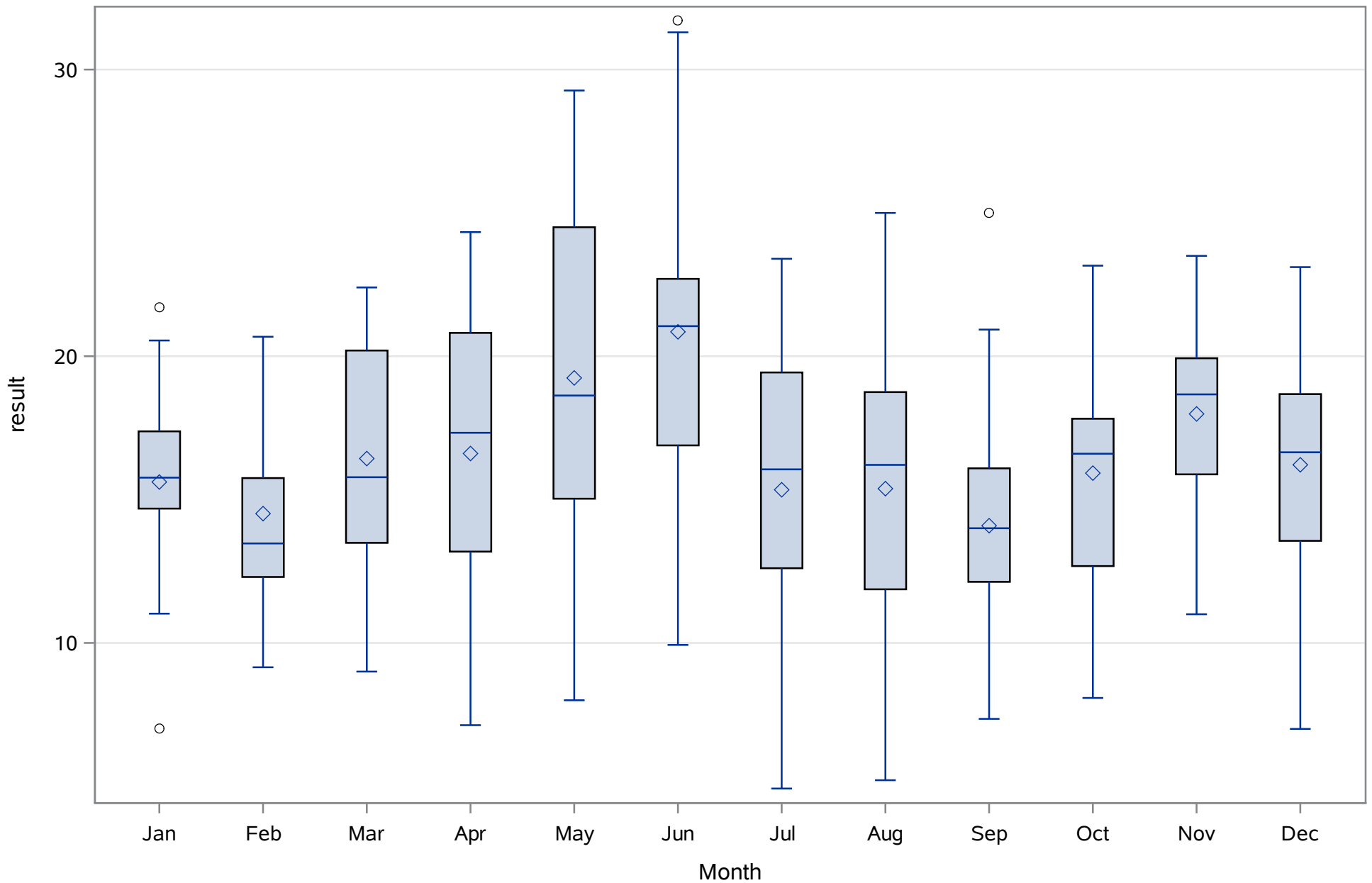
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) mg/L



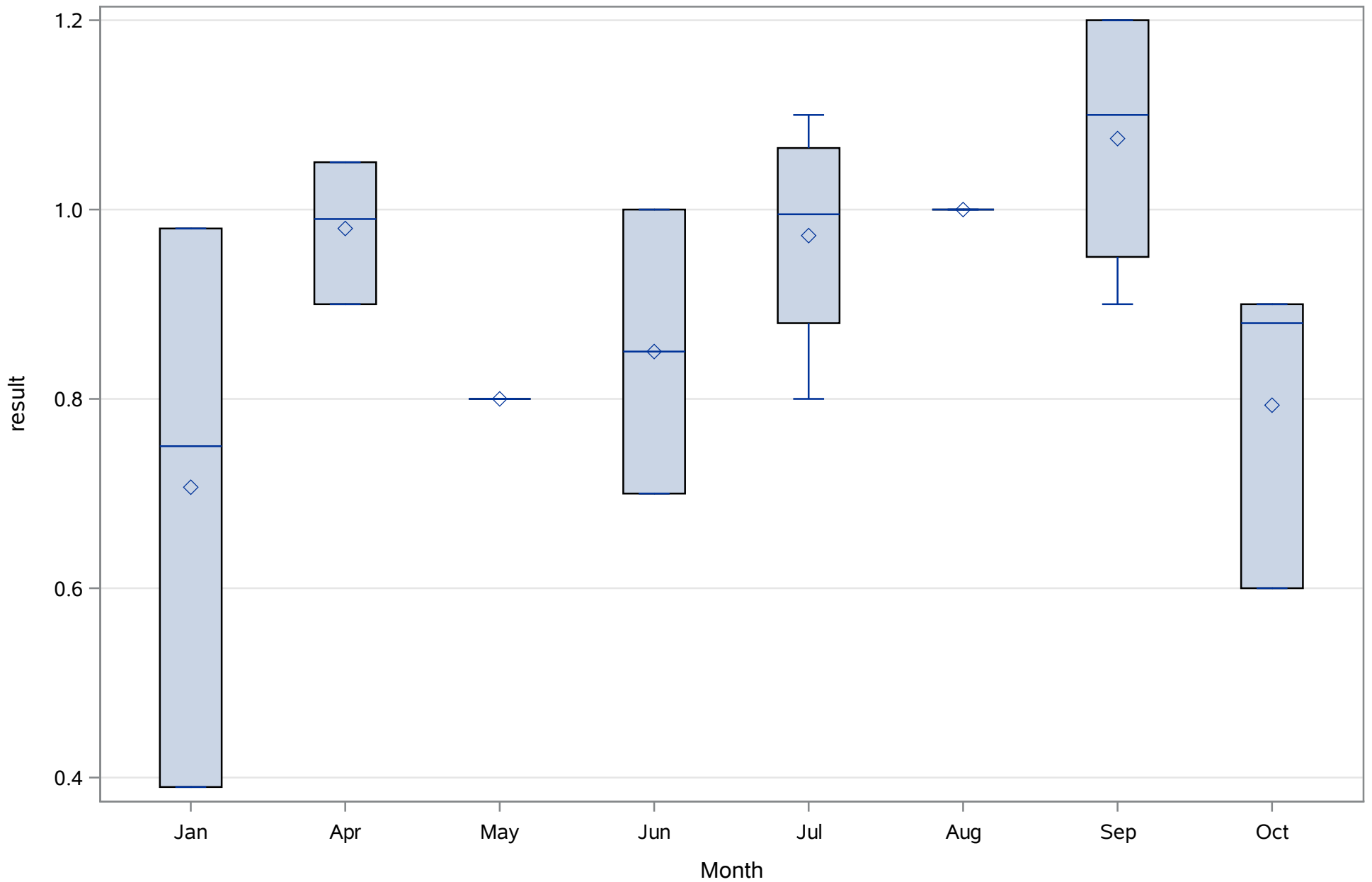
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Phosphorus- Total (Total) ug/L



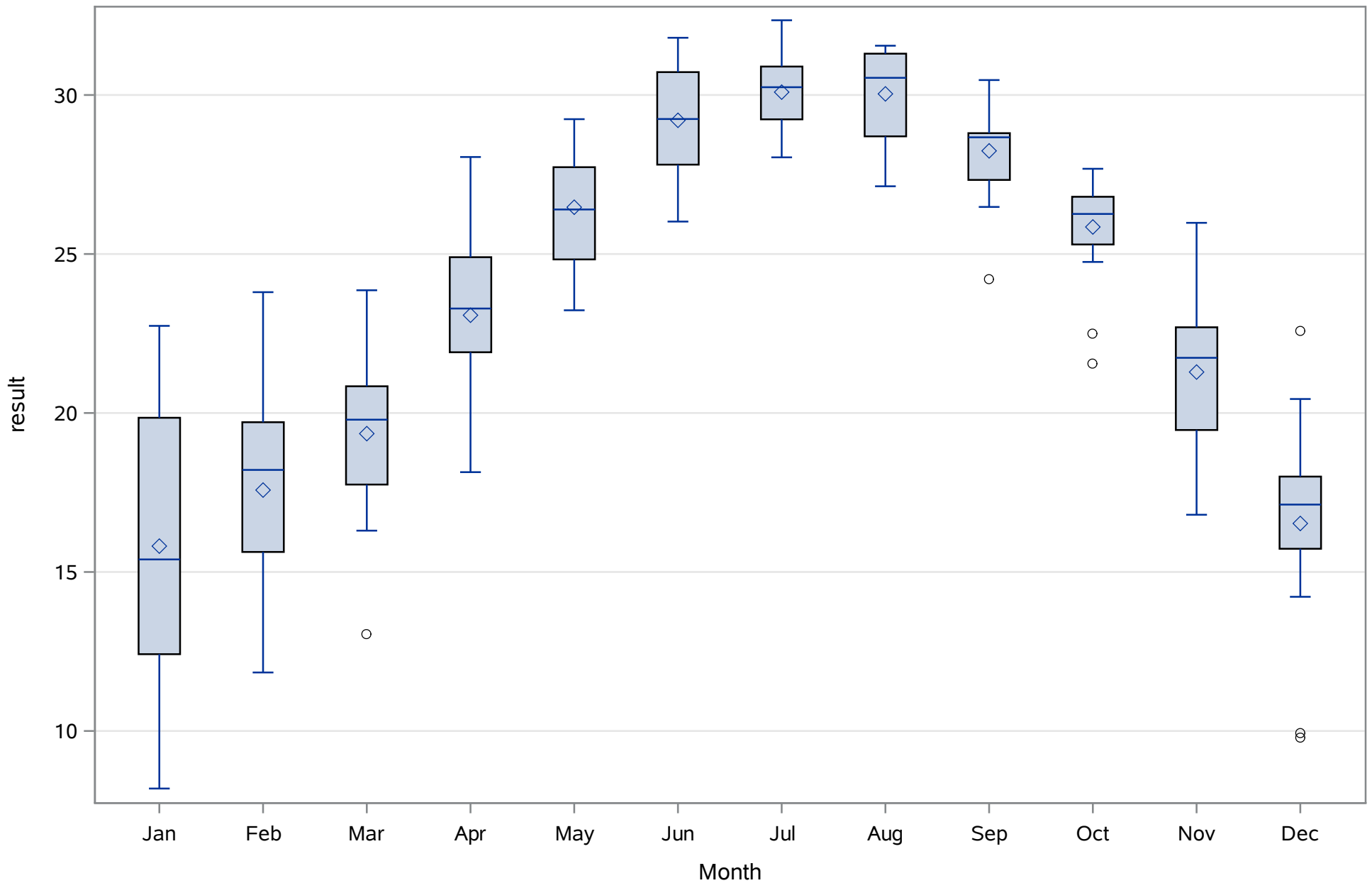
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Salinity (Total) ppth



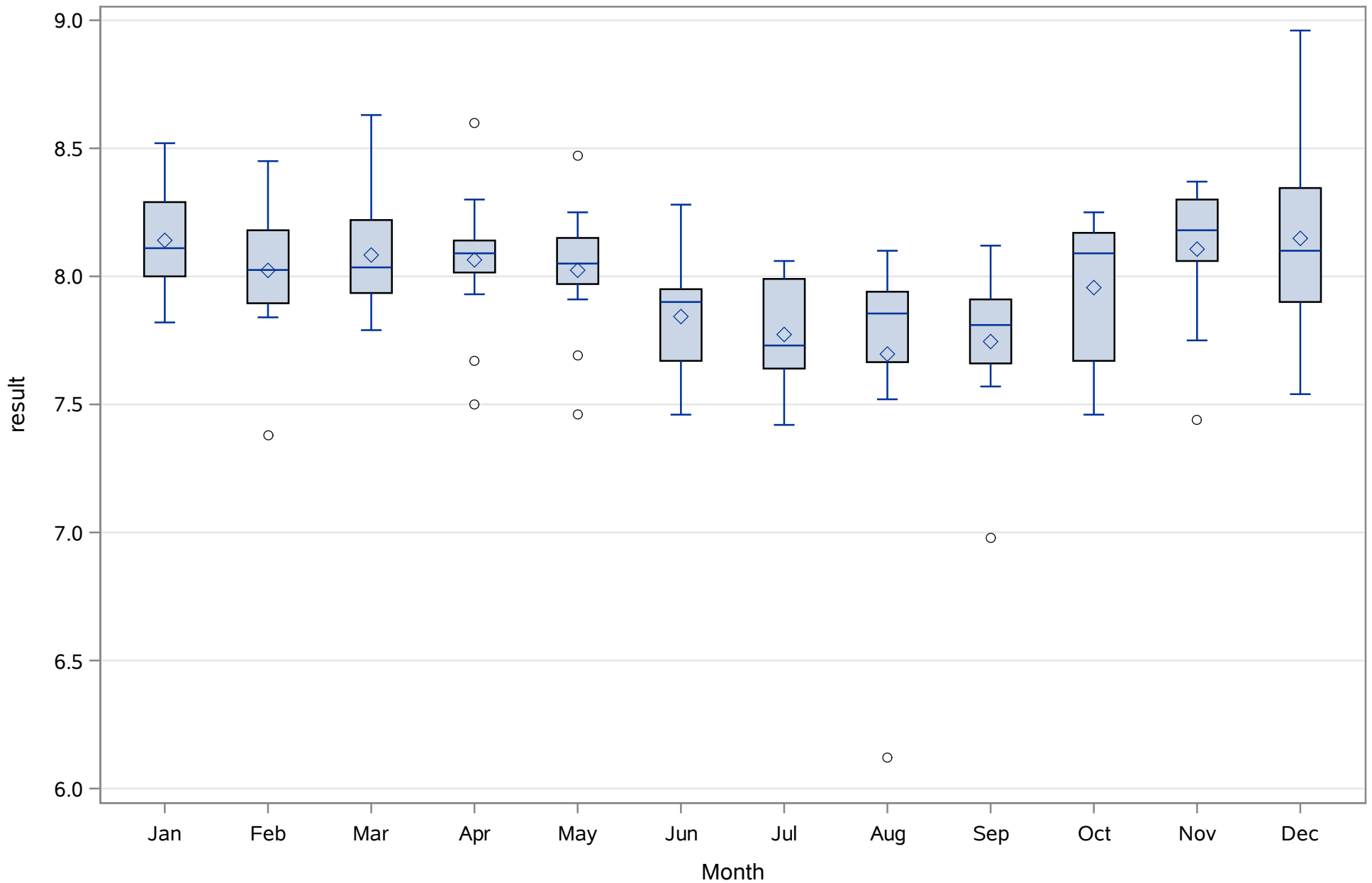
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 6
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	JUN1997	APR2017	216	4.2%	1.4%	2.8%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	2.2%	0.0%	1.1%
Color (Dissolved)	PCU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Color (Total)	PCU	MAY1999	AUG2014	184	4.3%	1.1%	2.7%
Depth (Total)	Meters	JUN1997	APR2017	217	0.0%	1.4%	0.0%
Depth, bottom (Total)	Meters	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	APR2017	215	0.0%	1.9%	0.0%
Iron (Dissolved)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	181	2.8%	1.1%	1.7%
Magnesium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	10.0%	0.0%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	0.5%	1.0%	2.4%
Orthophosphate (P) (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	1.9%	1.0%	1.9%
Potassium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Salinity (Total)	ppth	JUN1997	APR2017	217	0.5%	1.8%	0.0%
Secchi-vertical (Total)	Meters	SEP1997	APR2017	34	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	APR2017	216	0.0%	1.9%	0.0%
Turbidity (Total)	NTU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
pH (Total)	SU	DEC2000	APR2017	153	2.0%	1.3%	2.0%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	1.88625	Sum Observations	407.43
Std Deviation	3.07489252	Variance	9.45496401
Skewness	5.43029909	Kurtosis	35.5903613
Uncorrected SS	2801.3321	Corrected SS	2032.81726
Coeff Variation	163.016171	Std Error Mean	0.20921994

Basic Statistical Measures			
Location		Variability	
Mean	1.886250	Std Deviation	3.07489
Median	1.030000	Variance	9.45496
Mode	1.000000	Range	26.62000
		Interquartile Range	1.11000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.015632	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.90
99%	13.99
95%	6.10
90%	3.03
75% Q3	1.80
50% Median	1.03
25% Q1	0.69
10%	0.50
5%	0.40
1%	0.30
0% Min	0.28

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.28	140	11.90	16
0.30	68	12.60	17
0.30	47	13.99	183
0.30	46	24.60	12
0.30	35	26.90	13

Chassahowitzka River - Fixed Station

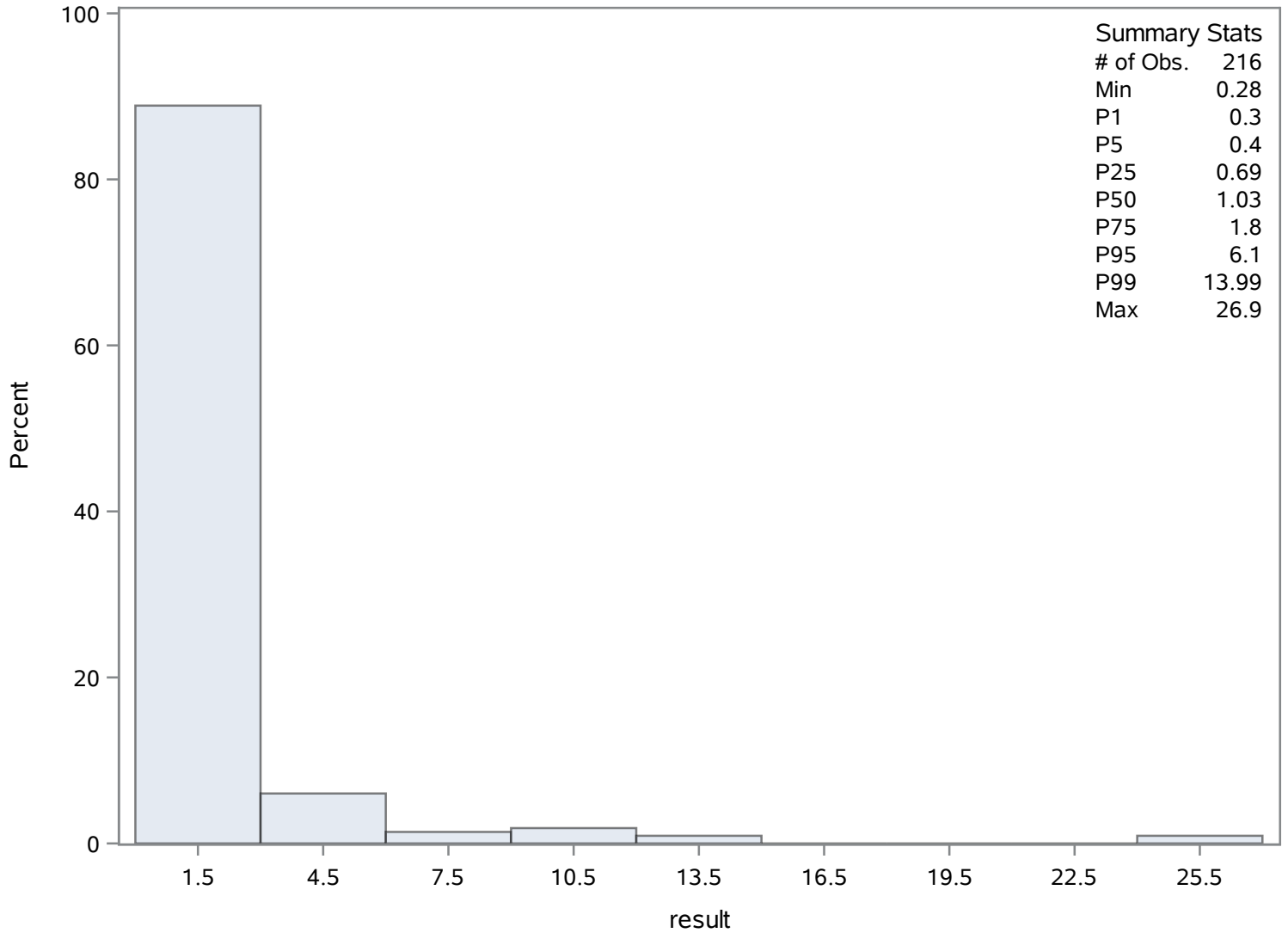
Source: COAST

Chassahowitzka Hernando 7

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	1.17703297	Sum Observations	107.11
Std Deviation	1.44989003	Variance	2.1021811
Skewness	6.16006882	Kurtosis	48.4736429
Uncorrected SS	315.2683	Corrected SS	189.196299
Coeff Variation	123.181769	Std Error Mean	0.15198977

Basic Statistical Measures			
Location		Variability	
Mean	1.177033	Std Deviation	1.44989
Median	0.890000	Variance	2.10218
Mode	0.670000	Range	12.82000
		Interquartile Range	0.89000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.744159	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.93
99%	12.93
95%	2.68
90%	2.35
75% Q3	1.34
50% Median	0.89
25% Q1	0.45
10%	0.34
5%	0.22
1%	0.11
0% Min	0.11

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.11	220	2.68	248
0.22	302	2.68	249
0.22	290	2.68	259
0.22	255	3.99	282
0.22	241	12.93	283

Chassahowitzka River - Fixed Station

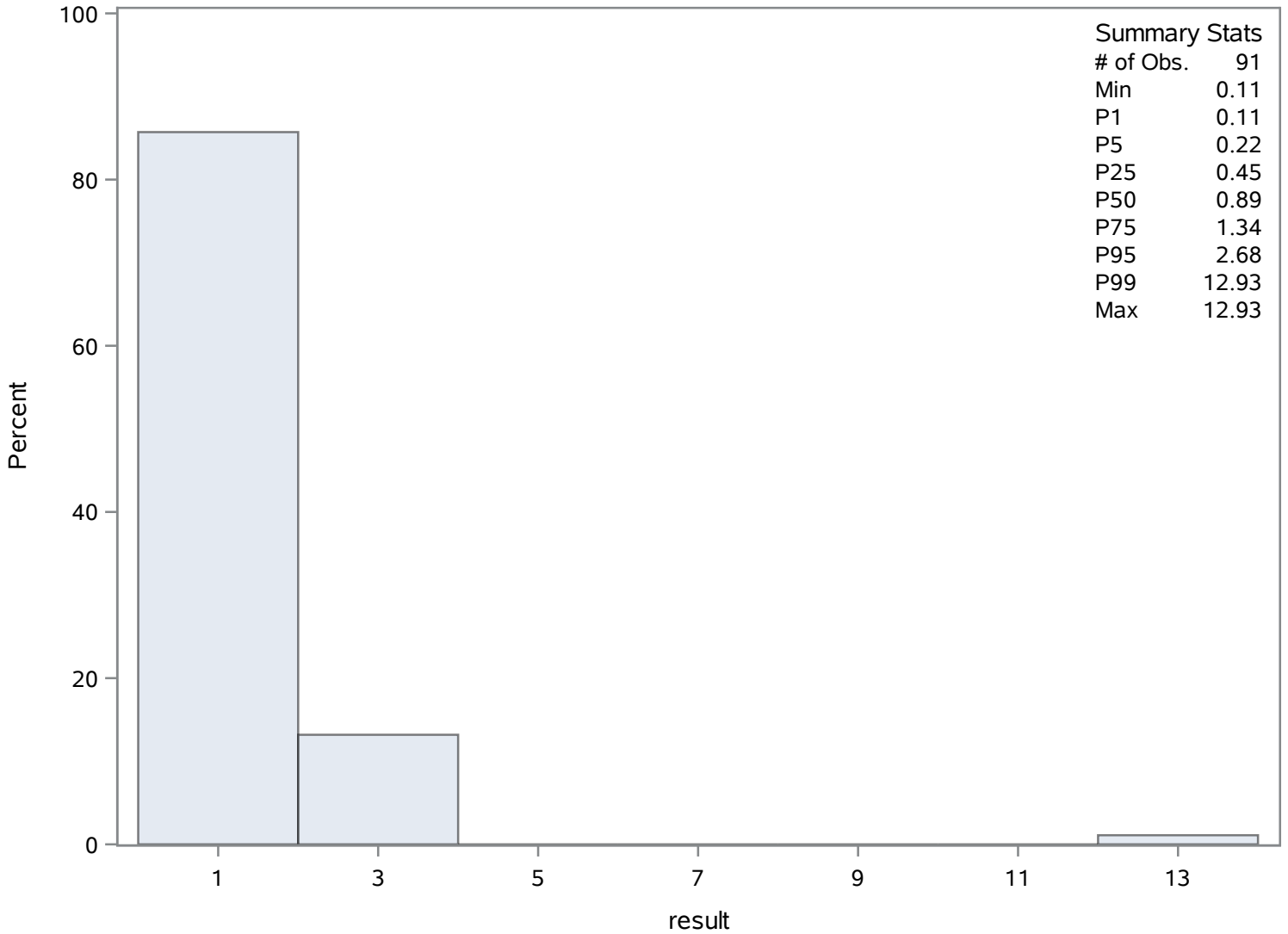
Source: COAST

Chassahowitzka Hernando 7

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Summary Stats

# of Obs.	91
Min	0.11
P1	0.11
P5	0.22
P25	0.45
P50	0.89
P75	1.34
P95	2.68
P99	12.93
Max	12.93

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	17.7445652	Sum Observations	3265
Std Deviation	7.51137373	Variance	56.4207353
Skewness	2.3867502	Kurtosis	8.38910403
Uncorrected SS	68261	Corrected SS	10324.9946
Coeff Variation	42.3305595	Std Error Mean	0.55374582

Basic Statistical Measures			
Location		Variability	
Mean	17.74457	Std Deviation	7.51137
Median	16.00000	Variance	56.42074
Mode	15.00000	Range	54.00000
		Interquartile Range	6.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	32.0446	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	61.0
99%	48.0
95%	30.0
90%	27.0
75% Q3	20.0
50% Median	16.0
25% Q1	13.5
10%	11.0
5%	10.0
1%	8.0
0% Min	7.0

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	462	42	419
8	341	45	372
9	474	46	467
9	403	48	359
10	488	61	358

Chassahowitzka River - Fixed Station

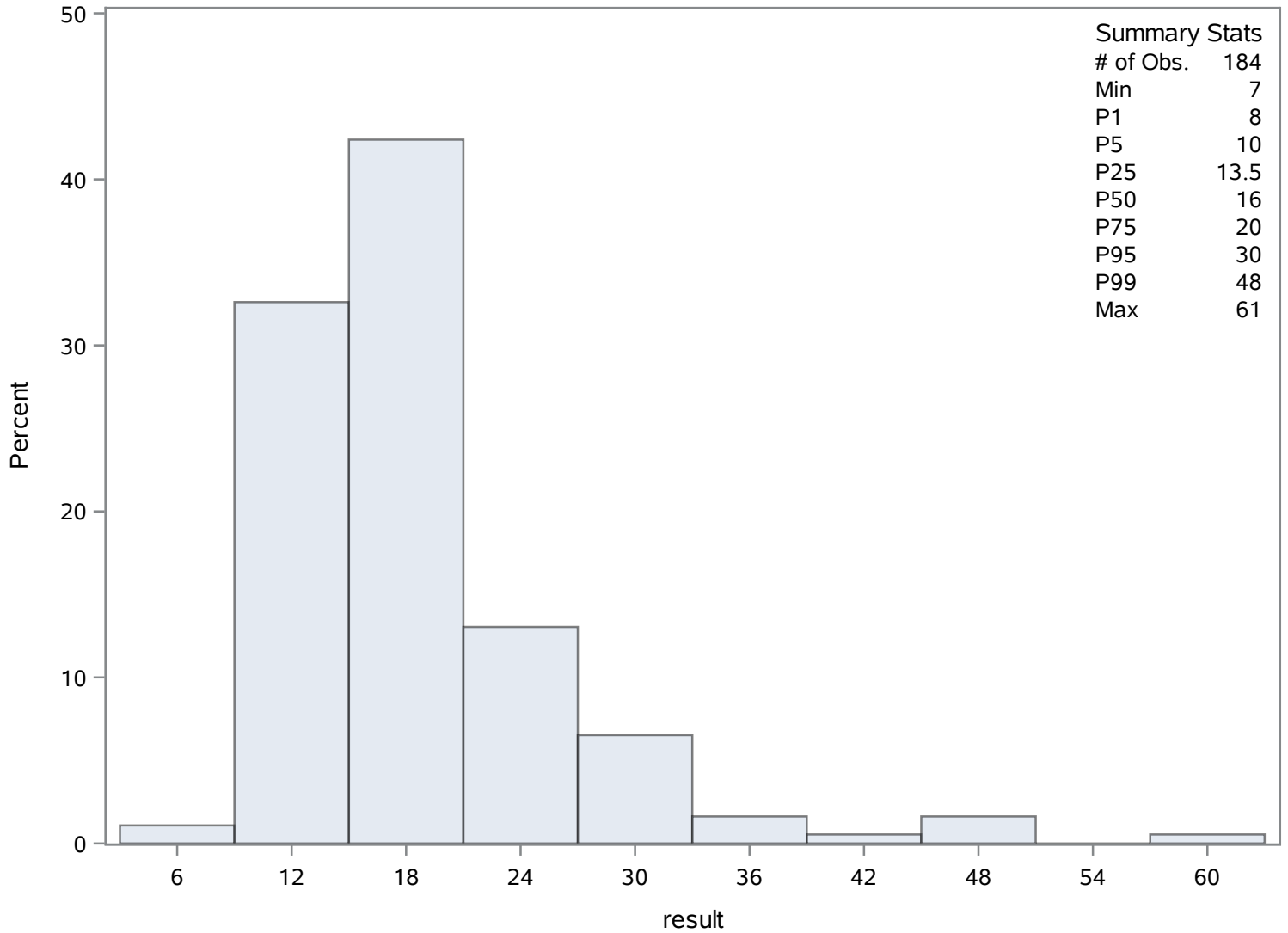
Source: COAST

Chassahowitzka Hernando 7

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	1.15419355	Sum Observations	250.46
Std Deviation	0.36638931	Variance	0.13424113
Skewness	-0.1109178	Kurtosis	-0.6071365
Uncorrected SS	318.0754	Corrected SS	28.9960839
Coeff Variation	31.7441831	Std Error Mean	0.02487213

Basic Statistical Measures			
Location		Variability	
Mean	1.154194	Std Deviation	0.36639
Median	1.200000	Variance	0.13424
Mode	1.400000	Range	1.70000
		Interquartile Range	0.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	46.4051	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.00
99%	1.90
95%	1.70
90%	1.60
75% Q3	1.40
50% Median	1.20
25% Q1	0.90
10%	0.60
5%	0.50
1%	0.36
0% Min	0.30

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	525	1.9	507
0.33	707	1.9	508
0.36	702	1.9	523
0.37	699	1.9	536
0.50	708	2.0	516

Chassahowitzka River - Fixed Station

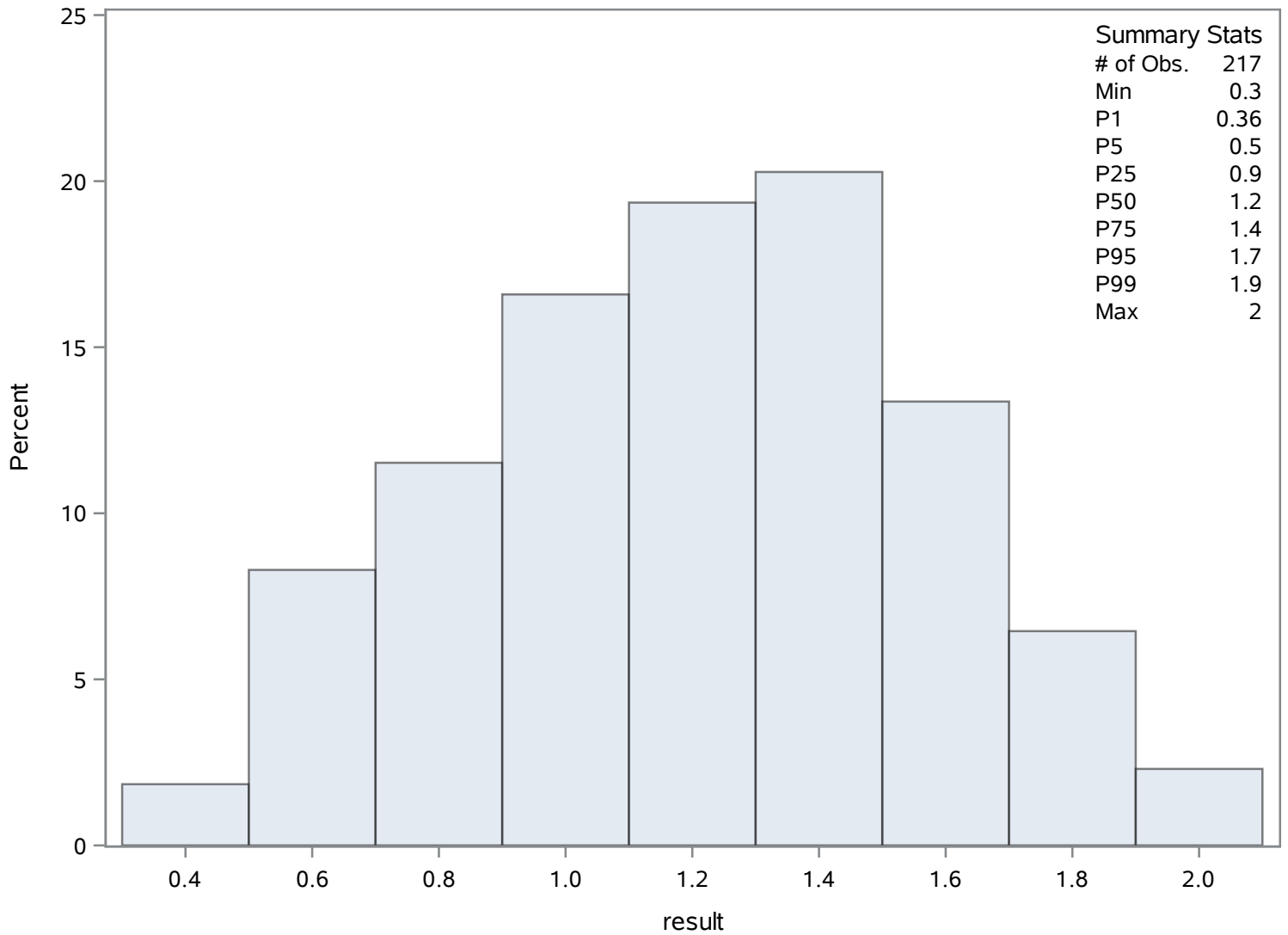
Source: COAST

Chassahowitzka Hernando 7

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	7.15860465	Sum Observations	1539.1
Std Deviation	1.73749172	Variance	3.01887748
Skewness	0.24032955	Kurtosis	-0.4678876
Uncorrected SS	11663.8482	Corrected SS	646.039781
Coeff Variation	24.2713742	Std Error Mean	0.11849595

Basic Statistical Measures			
Location		Variability	
Mean	7.158605	Std Deviation	1.73749
Median	6.970000	Variance	3.01888
Mode	6.860000	Range	8.88000
		Interquartile Range	2.80000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	60.41223	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.30
99%	11.10
95%	10.16
90%	9.43
75% Q3	8.60
50% Median	6.97
25% Q1	5.80
10%	5.00
5%	4.49
1%	3.82
0% Min	3.42

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.42	781	10.59	847
3.66	865	11.01	896
3.82	841	11.10	714
3.99	747	11.25	914
4.03	823	12.30	750

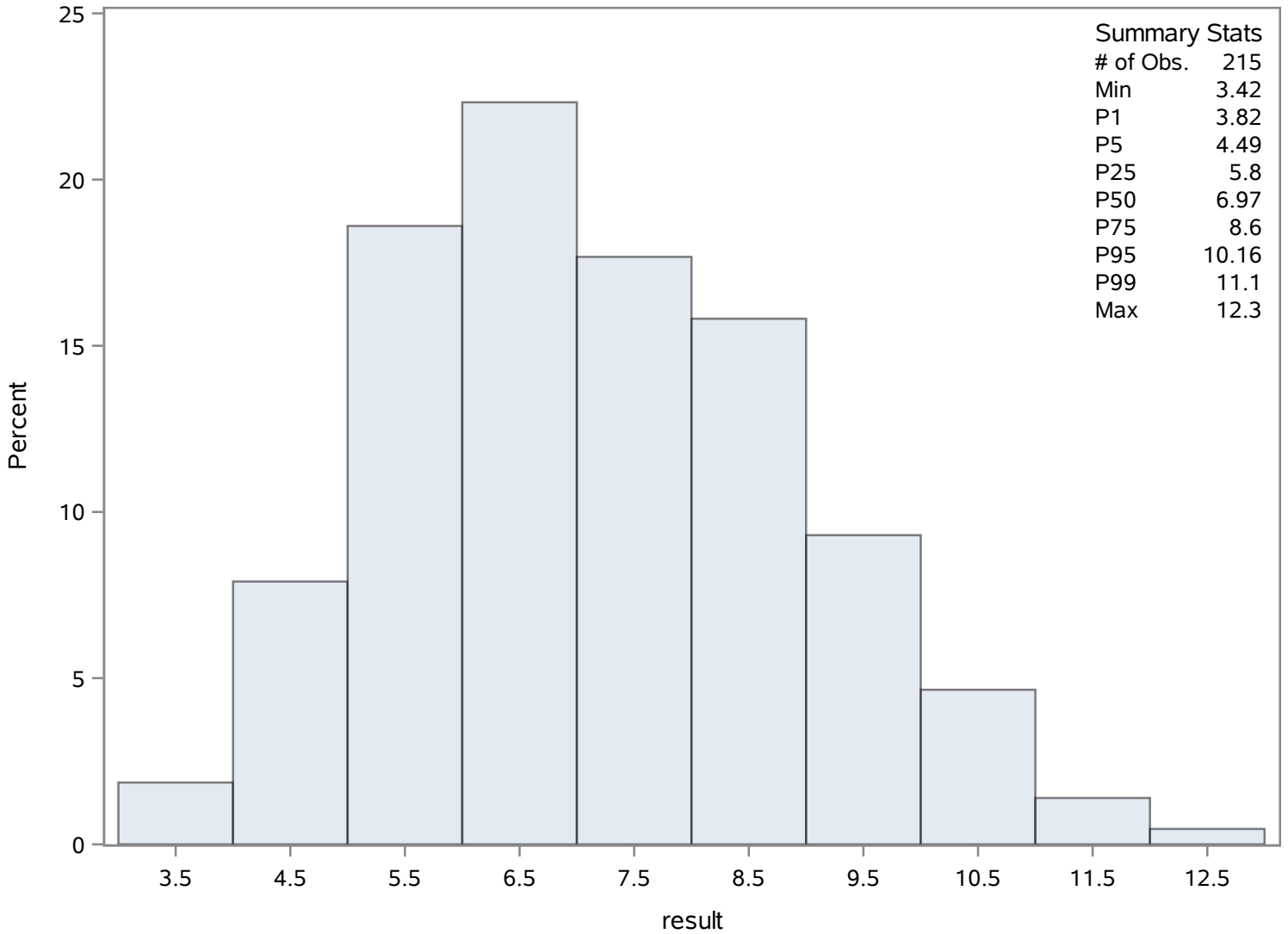
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 7 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	181	Sum Weights	181
Mean	1.27448619	Sum Observations	230.682
Std Deviation	0.55910918	Variance	0.31260307
Skewness	2.47384746	Kurtosis	10.7224634
Uncorrected SS	350.269576	Corrected SS	56.2685532
Coeff Variation	43.8693792	Std Error Mean	0.04155826

Basic Statistical Measures			
Location		Variability	
Mean	1.274486	Std Deviation	0.55911
Median	1.154000	Variance	0.31260
Mode	0.974000	Range	4.31300
		Interquartile Range	0.59700

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	30.66746	Pr > t 	<.0001
Sign	M	90.5	Pr >= M 	<.0001
Signed Rank	S	8235.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.746
99%	3.890
95%	2.146
90%	1.826
75% Q3	1.546
50% Median	1.154
25% Q1	0.949
10%	0.756
5%	0.651
1%	0.443
0% Min	0.433

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Light, Attenuation Coefficient Kd/m

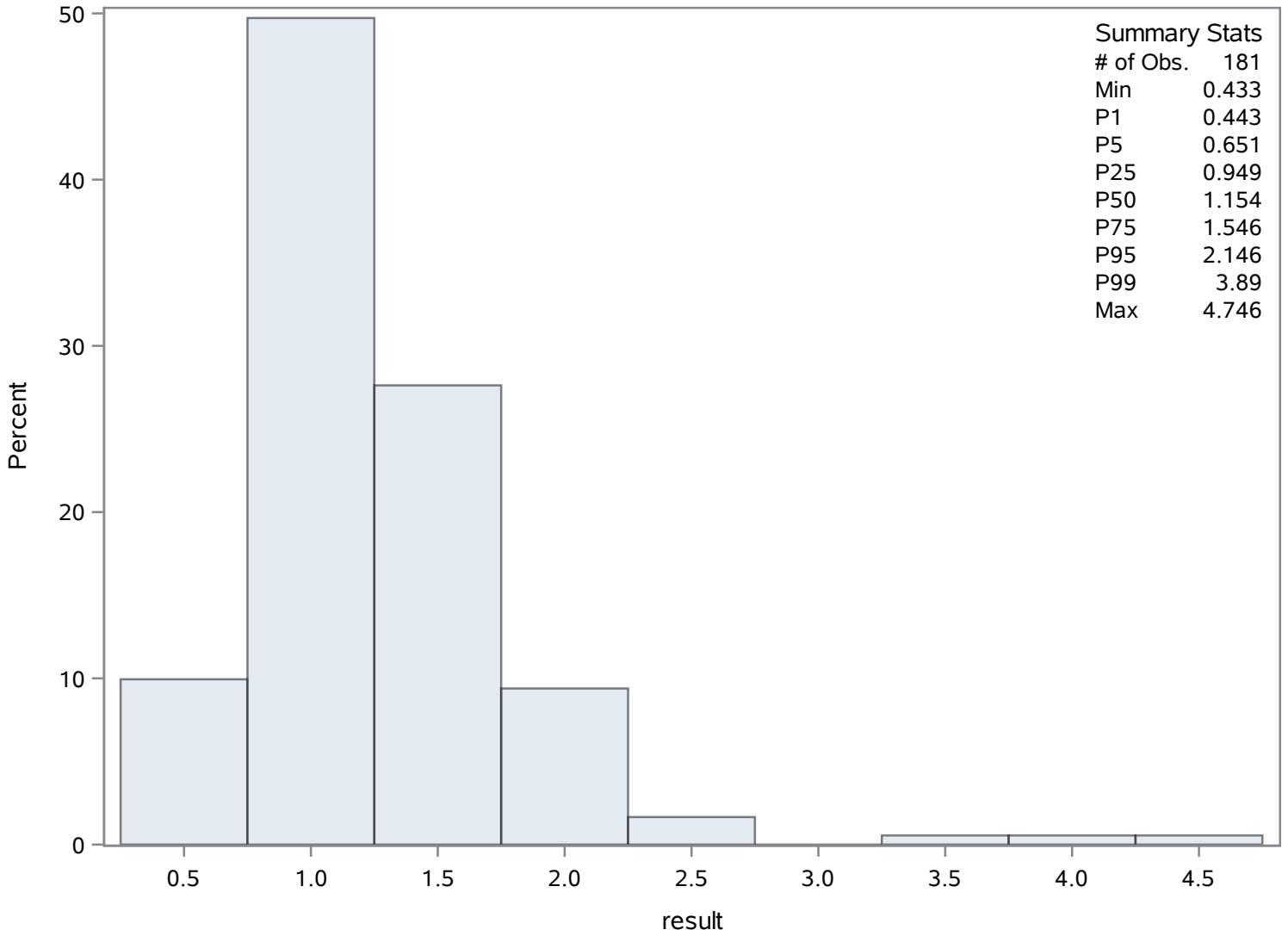
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.433	1102	2.650	964
0.443	1101	2.747	1023
0.484	1041	3.440	1024
0.537	1098	3.890	973
0.593	936	4.746	971

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.38222222	Sum Observations	3.44
Std Deviation	0.06924193	Variance	0.00479444
Skewness	-0.3523389	Kurtosis	-0.3492738
Uncorrected SS	1.3532	Corrected SS	0.03835556
Coeff Variation	18.1156204	Std Error Mean	0.02308064

Basic Statistical Measures			
Location		Variability	
Mean	0.382222	Std Deviation	0.06924
Median	0.400000	Variance	0.00479
Mode	0.280000	Range	0.21000
		Interquartile Range	0.07000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.56029	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.49
99%	0.49
95%	0.49
90%	0.49
75% Q3	0.42
50% Median	0.40
25% Q1	0.35
10%	0.28
5%	0.28
1%	0.28
0% Min	0.28

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.28	1112	0.40	1105
0.28	1108	0.41	1106
0.35	1113	0.42	1111
0.38	1107	0.43	1109
0.40	1105	0.49	1110

Chassahowitzka River - Fixed Station

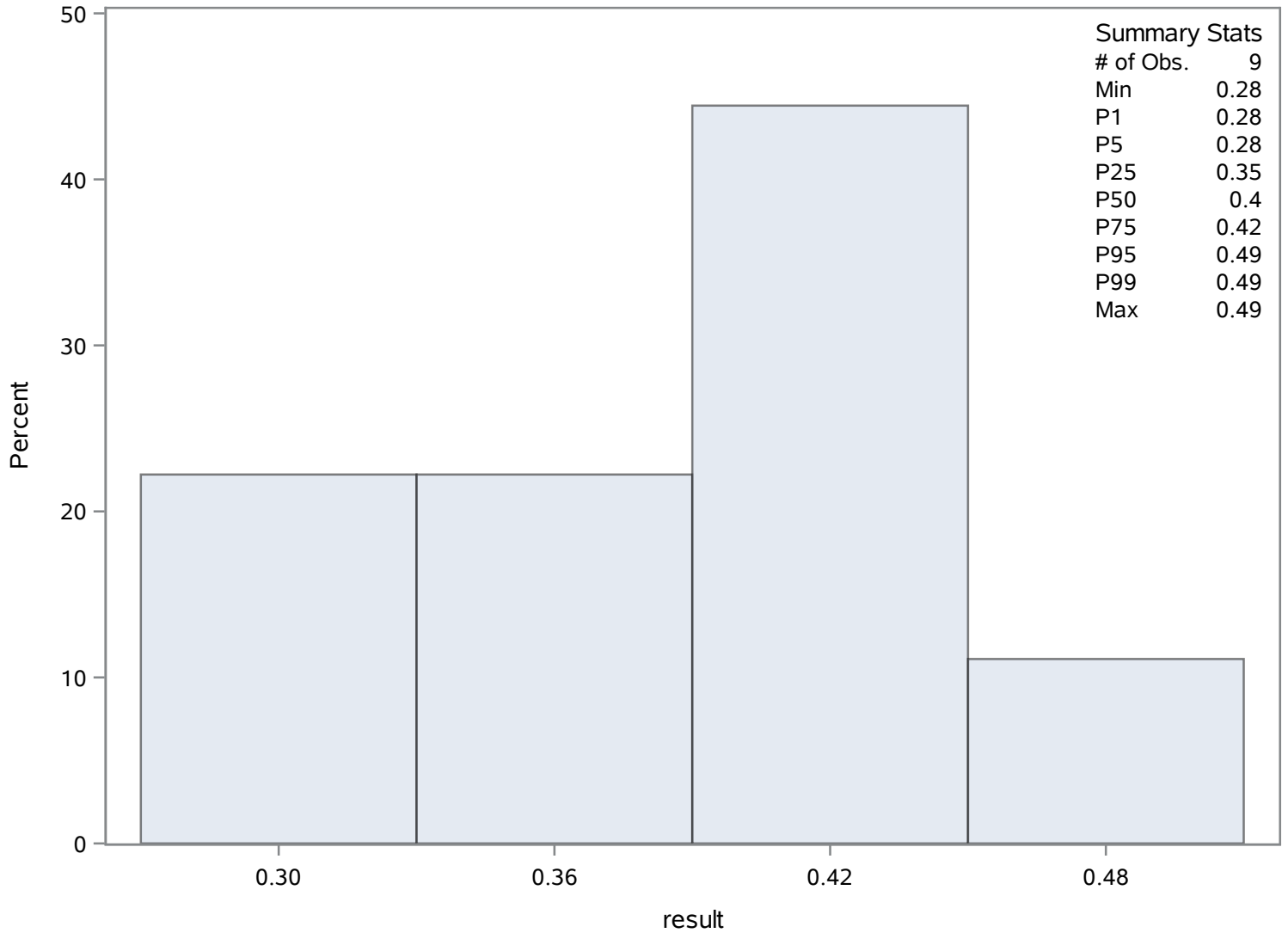
Source: COAST

Chassahowitzka Hernando 7

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	427.281553	Sum Observations	88020
Std Deviation	187.094311	Variance	35004.2813
Skewness	2.00406107	Kurtosis	7.69898508
Uncorrected SS	44785200	Corrected SS	7175877.67
Coeff Variation	43.7871258	Std Error Mean	13.0354783

Basic Statistical Measures			
Location		Variability	
Mean	427.2816	Std Deviation	187.09431
Median	400.0000	Variance	35004
Mode	300.0000	Range	1420
		Interquartile Range	220.00000

Note: The mode displayed is the smallest of 2 modes with a count of 10.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	32.77836	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1540
99%	1100
95%	710
90%	620
75% Q3	520
50% Median	400
25% Q1	300
10%	250
5%	200

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	140
0% Min	120

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
120	1205	1030	1130
140	1312	1040	1187
140	1194	1100	1125
140	1181	1210	1127
150	1196	1540	1126

Chassahowitzka River - Fixed Station

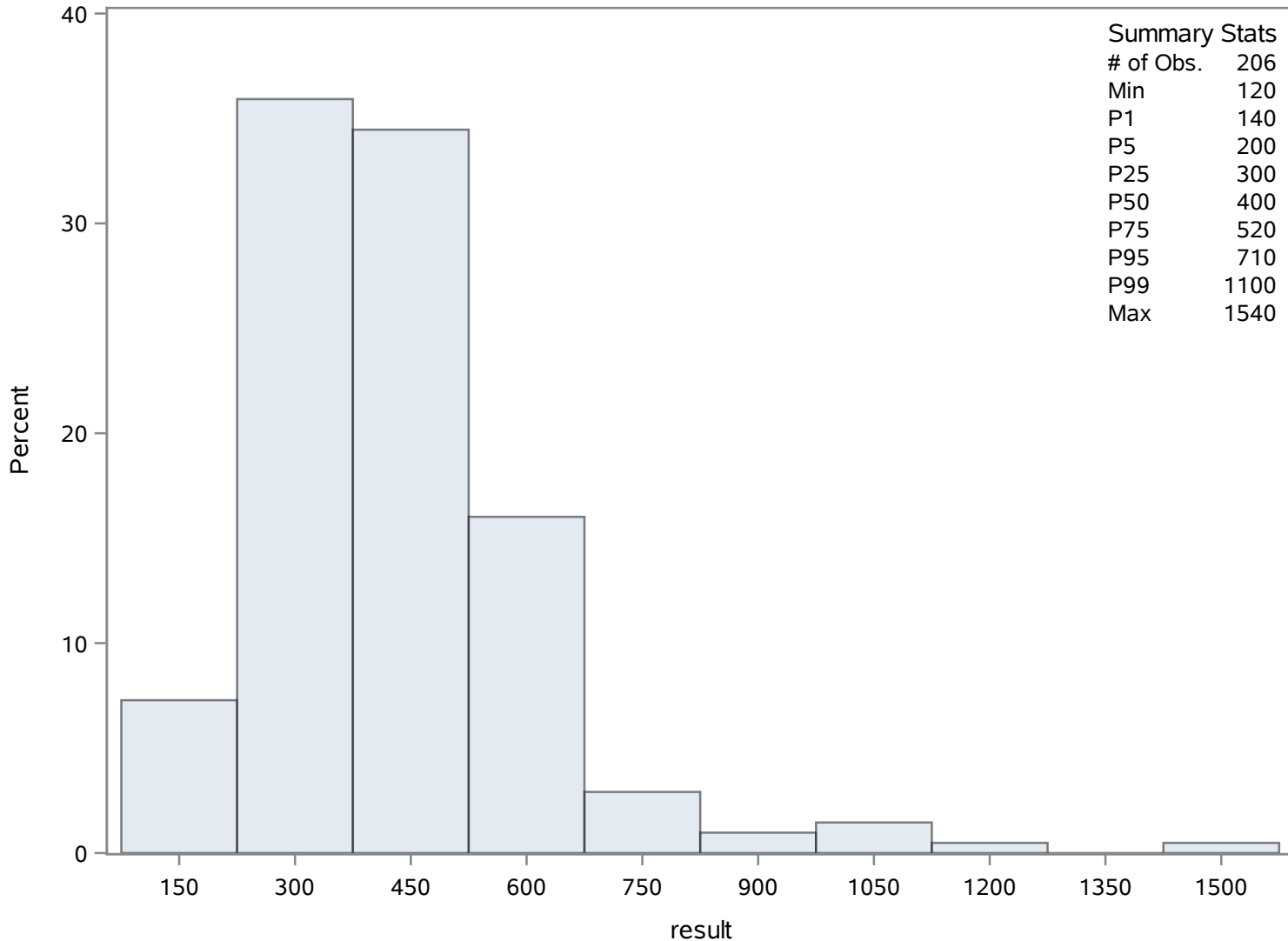
Source: COAST

Chassahowitzka Hernando 7

Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.01088889	Sum Observations	0.098
Std Deviation	0.00368932	Variance	0.00001361
Skewness	0.26662703	Kurtosis	-1.0060808
Uncorrected SS	0.001176	Corrected SS	0.00010889
Coeff Variation	33.8815464	Std Error Mean	0.00122977

Basic Statistical Measures			
Location		Variability	
Mean	0.010889	Std Deviation	0.00369
Median	0.011000	Variance	0.0000136
Mode	0.014000	Range	0.01100
		Interquartile Range	0.00600

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.854377	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.017
99%	0.017
95%	0.017
90%	0.017
75% Q3	0.014
50% Median	0.011
25% Q1	0.008
10%	0.006
5%	0.006
1%	0.006
0% Min	0.006

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	1327	0.011	1320
0.007	1323	0.012	1321
0.008	1325	0.014	1322
0.009	1328	0.014	1326
0.011	1320	0.017	1324

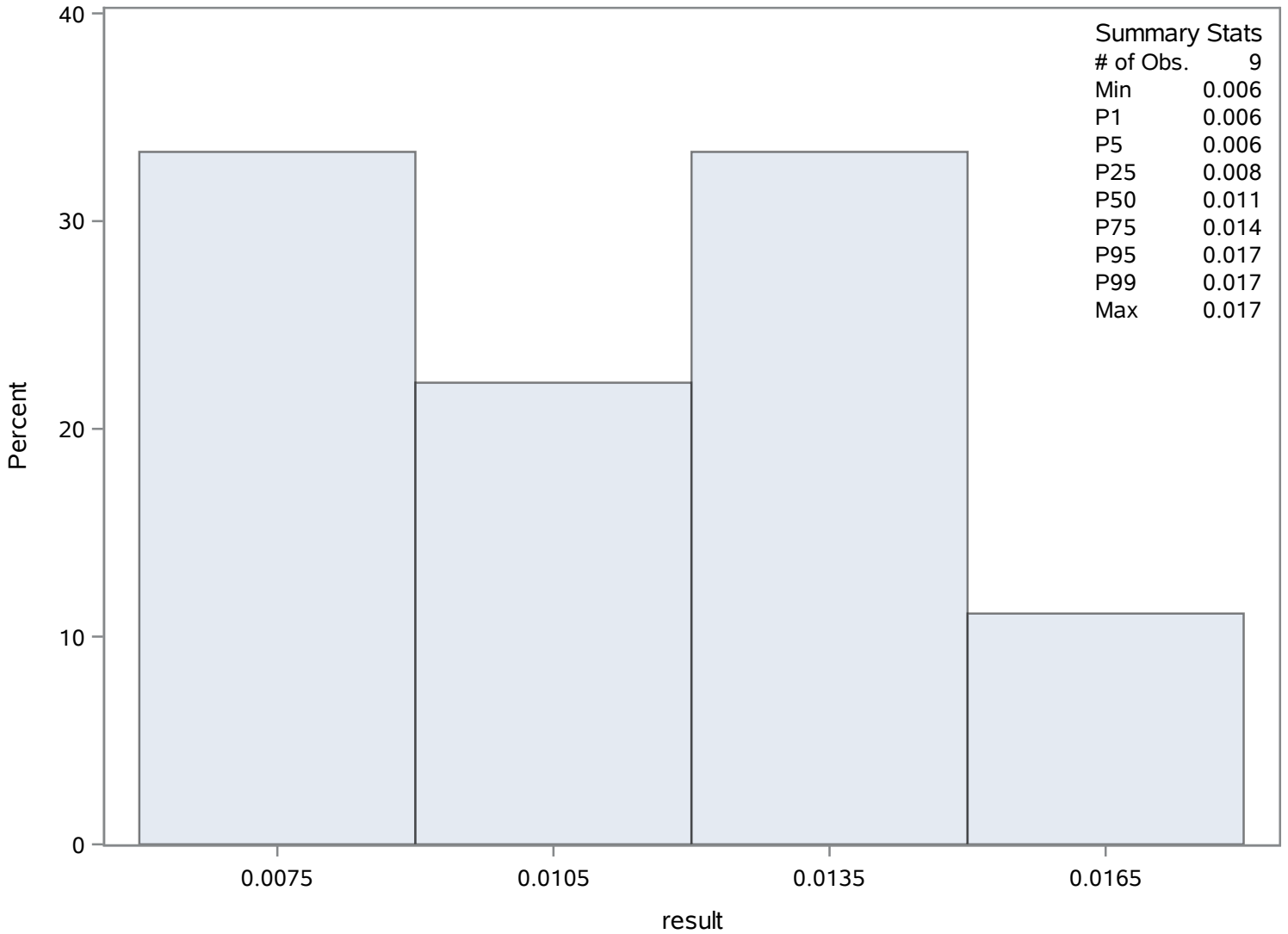
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 7 Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	9.84466019	Sum Observations	2028
Std Deviation	5.05531796	Variance	25.5562396
Skewness	2.54883002	Kurtosis	10.5447375
Uncorrected SS	25204	Corrected SS	5239.02913
Coeff Variation	51.3508629	Std Error Mean	0.35222069

Basic Statistical Measures			
Location		Variability	
Mean	9.844660	Std Deviation	5.05532
Median	9.000000	Variance	25.55624
Mode	6.000000	Range	39.00000
		Interquartile Range	6.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	27.95026	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	41
99%	32
95%	18
90%	15
75% Q3	12
50% Median	9
25% Q1	6
10%	5
5%	5
1%	3
0% Min	2

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	1498	23	1404
3	1506	27	1345
3	1503	32	1340
3	1420	34	1342
4	1494	41	1341

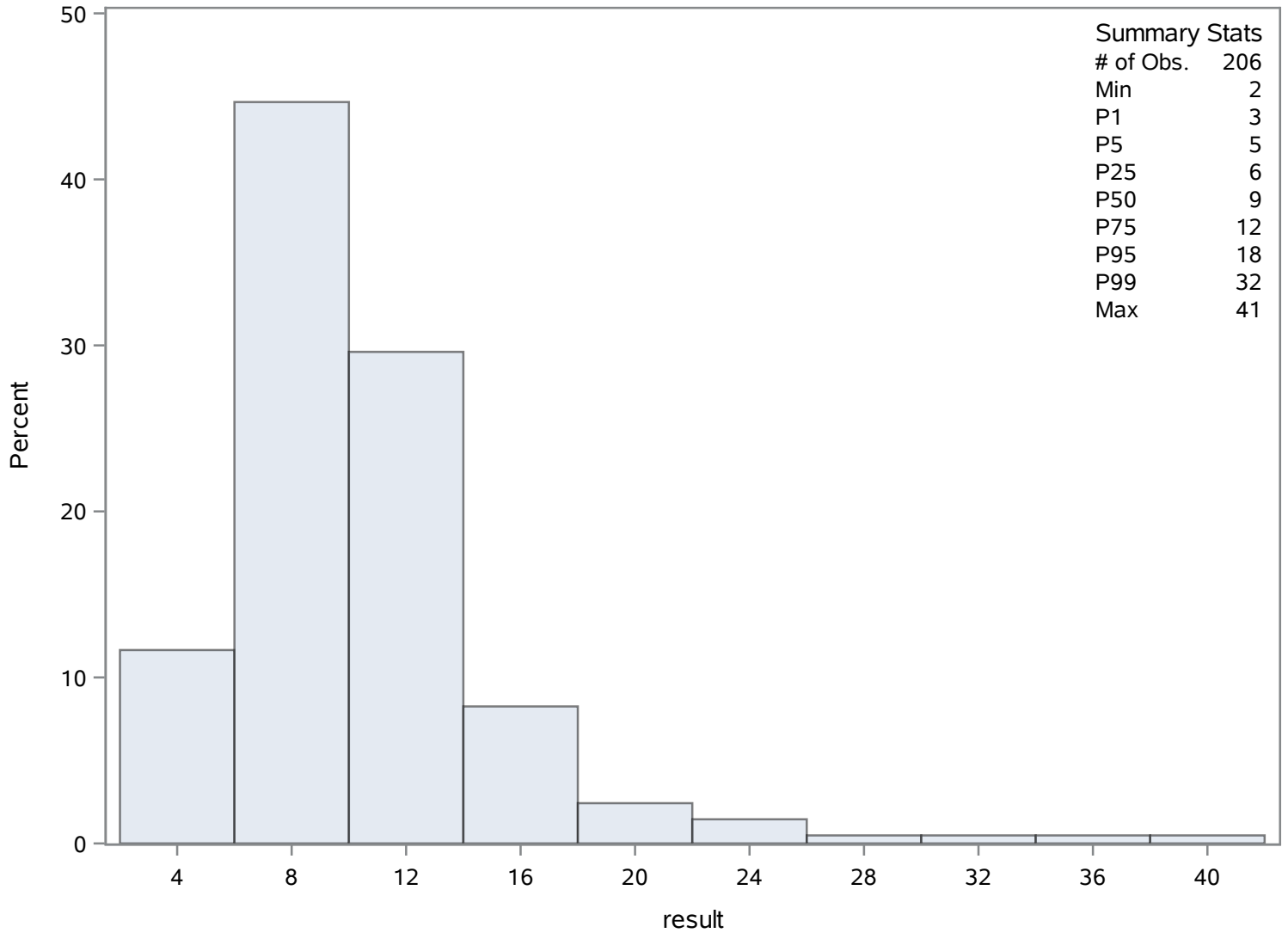
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 7
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	18.5067281	Sum Observations	4015.96
Std Deviation	4.9243376	Variance	24.2491008
Skewness	0.07926352	Kurtosis	0.227517
Uncorrected SS	79560.0856	Corrected SS	5237.80578
Coeff Variation	26.6083641	Std Error Mean	0.33428582

Basic Statistical Measures			
Location		Variability	
Mean	18.50673	Std Deviation	4.92434
Median	18.24000	Variance	24.24910
Mode	9.00000	Range	27.99000
		Interquartile Range	6.54000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	55.36199	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	33.20
99%	32.48
95%	25.92
90%	24.60
75% Q3	22.02
50% Median	18.24
25% Q1	15.48
10%	12.19
5%	9.99

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	7.67
0% Min	5.21

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.21	1608	27.80	1560
5.49	1609	30.66	1594
7.67	1632	32.48	1595
9.00	1545	32.59	1583
9.00	1544	33.20	1559

Chassahowitzka River - Fixed Station

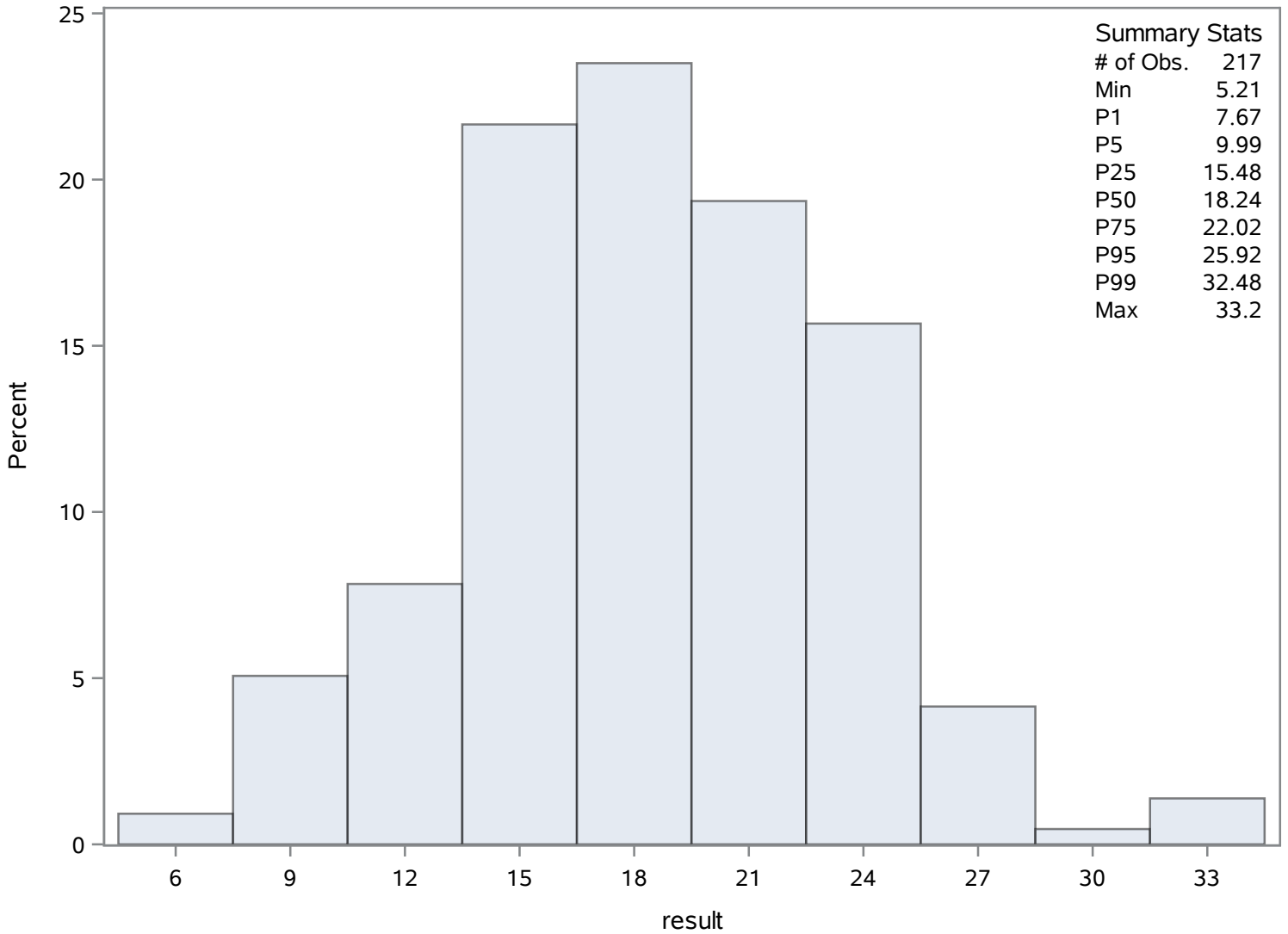
Source: COAST

Chassahowitzka Hernando 7

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	34	Sum Weights	34
Mean	1.06588235	Sum Observations	36.24
Std Deviation	0.29515397	Variance	0.08711586
Skewness	0.28731539	Kurtosis	-0.4517065
Uncorrected SS	41.5024	Corrected SS	2.87482353
Coeff Variation	27.6910455	Std Error Mean	0.05061849

Basic Statistical Measures			
Location		Variability	
Mean	1.065882	Std Deviation	0.29515
Median	1.100000	Variance	0.08712
Mode	1.100000	Range	1.10000
		Interquartile Range	0.48000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	21.05717	Pr > t 	<.0001
Sign	M	17	Pr >= M 	<.0001
Signed Rank	S	297.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.70
99%	1.70
95%	1.70
90%	1.40
75% Q3	1.28
50% Median	1.10
25% Q1	0.80
10%	0.70
5%	0.60
1%	0.60
0% Min	0.60

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	1771	1.4	1769
0.60	1755	1.4	1773
0.66	1784	1.5	1752
0.70	1756	1.7	1760
0.70	1754	1.7	1770

Chassahowitzka River - Fixed Station

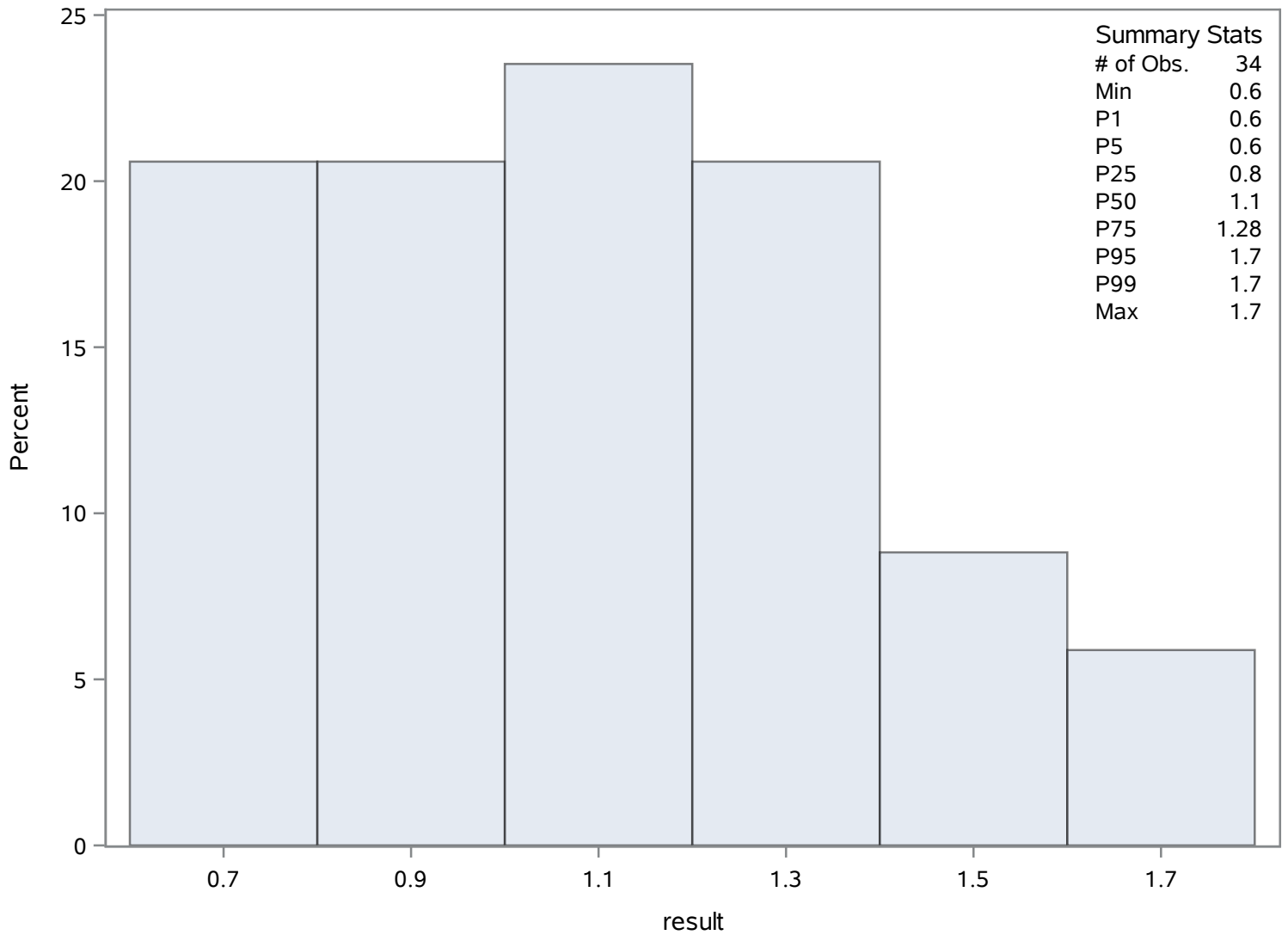
Source: COAST

Chassahowitzka Hernando 7

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	23.4680093	Sum Observations	5069.09
Std Deviation	5.91822414	Variance	35.0253769
Skewness	-0.5113139	Kurtosis	-0.691787
Uncorrected SS	126491.907	Corrected SS	7530.45604
Coeff Variation	25.2182623	Std Error Mean	0.40268415

Basic Statistical Measures			
Location		Variability	
Mean	23.46801	Std Deviation	5.91822
Median	24.28000	Variance	35.02538
Mode	17.00000	Range	23.89000
		Interquartile Range	9.58500

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	58.27895	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.190
99%	31.800
95%	31.150
90%	30.410
75% Q3	28.490
50% Median	24.280
25% Q1	18.905
10%	15.420
5%	12.890

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	9.100
0% Min	8.300

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.30	1866	31.68	1943
8.95	1948	31.78	1907
9.10	1827	31.80	1798
9.61	1947	31.81	1882
10.51	1828	32.19	1846

Chassahowitzka River - Fixed Station

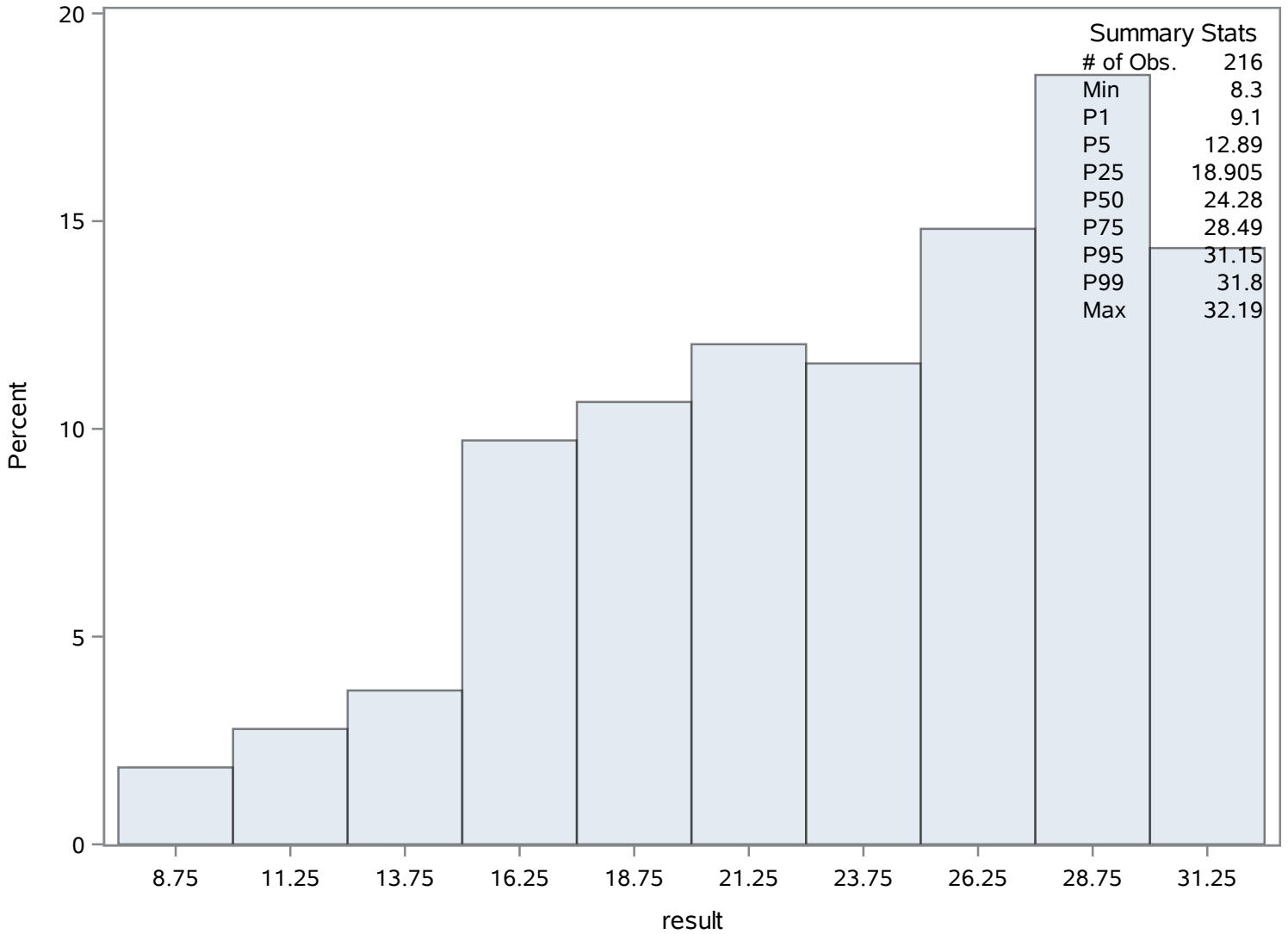
Source: COAST

Chassahowitzka Hernando 7

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	153	Sum Weights	153
Mean	8.01431373	Sum Observations	1226.19
Std Deviation	0.29250678	Variance	0.08556022
Skewness	-0.6521097	Kurtosis	3.35304844
Uncorrected SS	9840.0765	Corrected SS	13.0051529
Coeff Variation	3.64980447	Std Error Mean	0.02364777

Basic Statistical Measures			
Location		Variability	
Mean	8.014314	Std Deviation	0.29251
Median	8.030000	Variance	0.08556
Mode	8.010000	Range	2.31000
		Interquartile Range	0.33000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	338.9035	Pr > t 	<.0001
Sign	M	76.5	Pr >= M 	<.0001
Signed Rank	S	5890.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.98
99%	8.69
95%	8.41
90%	8.34
75% Q3	8.18
50% Median	8.03
25% Q1	7.85
10%	7.65
5%	7.55
1%	6.99
0% Min	6.67

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
pH (Total) SU

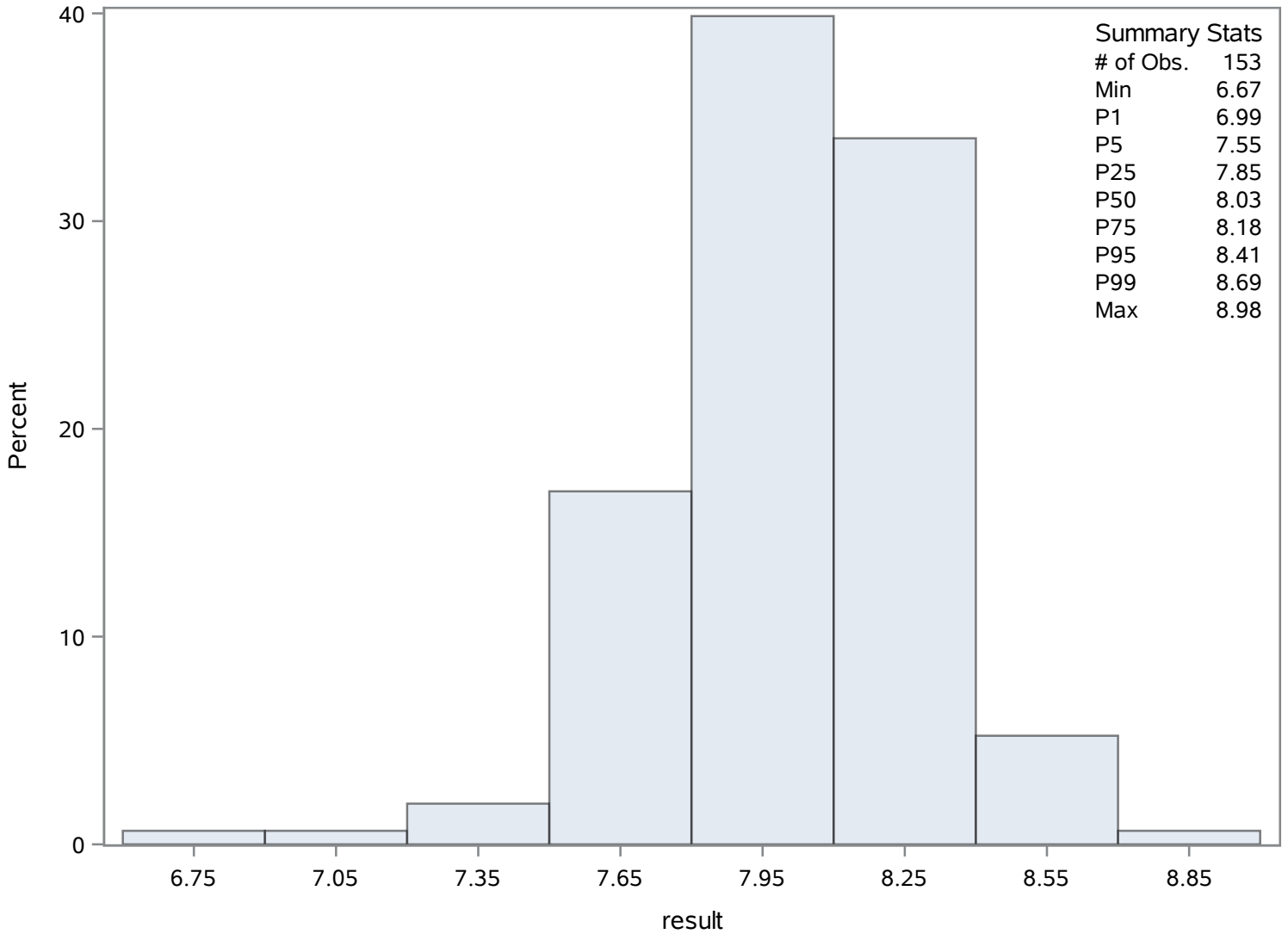
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.67	2073	8.57	2003
6.99	2074	8.62	2006
7.45	2131	8.65	2100
7.48	2118	8.69	2005
7.49	2114	8.98	2002

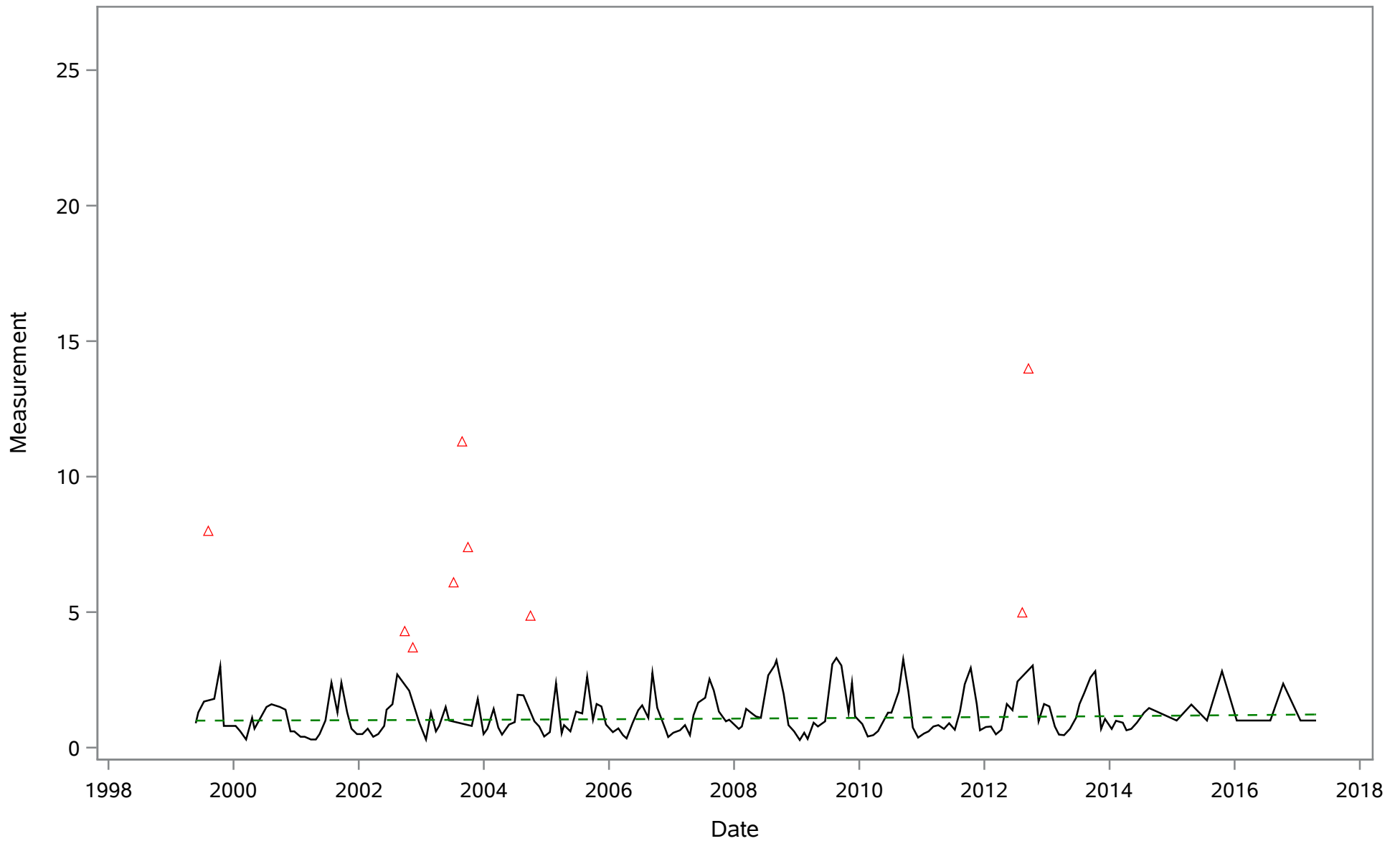
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

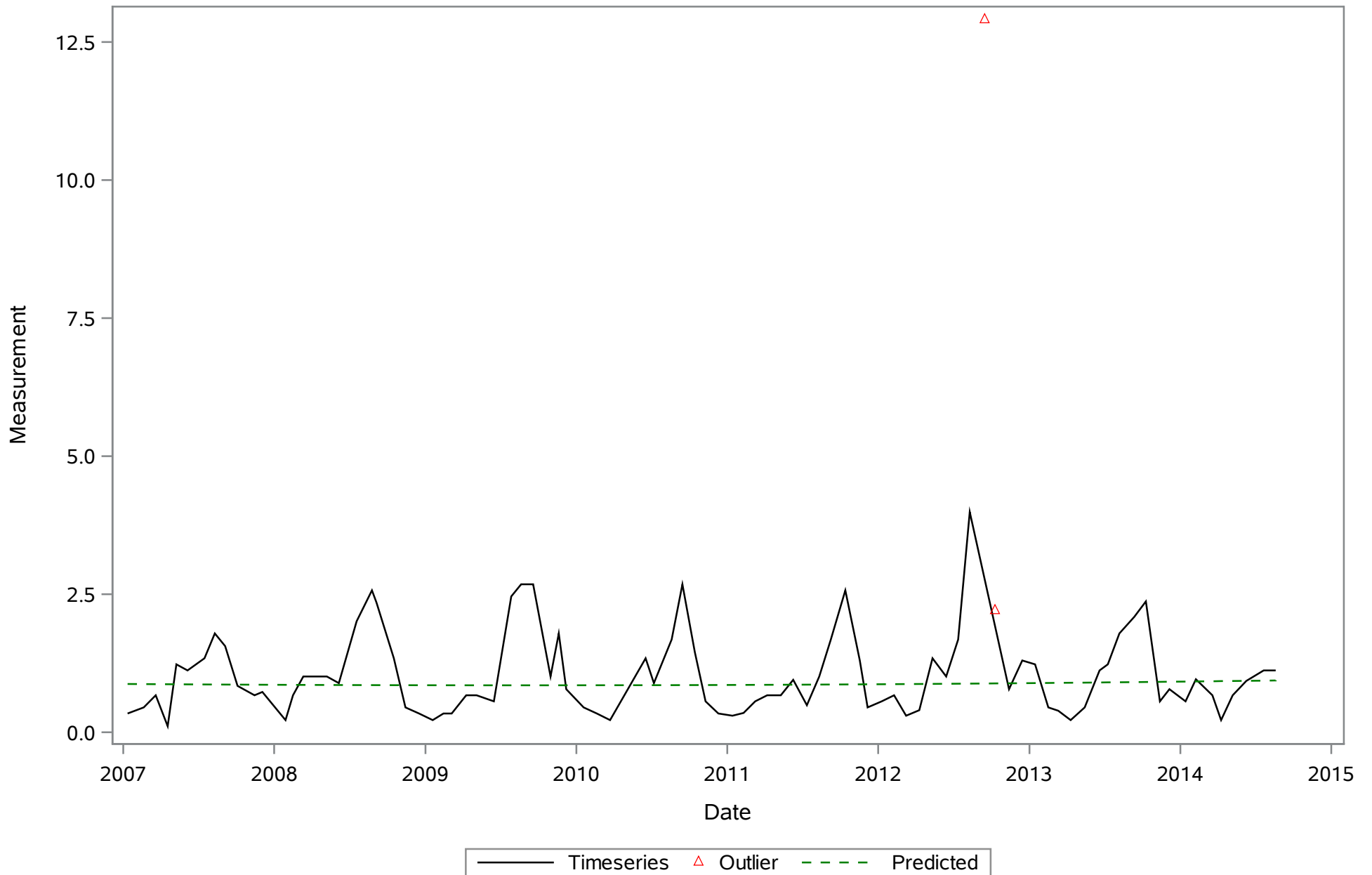


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll (Total) ug/L

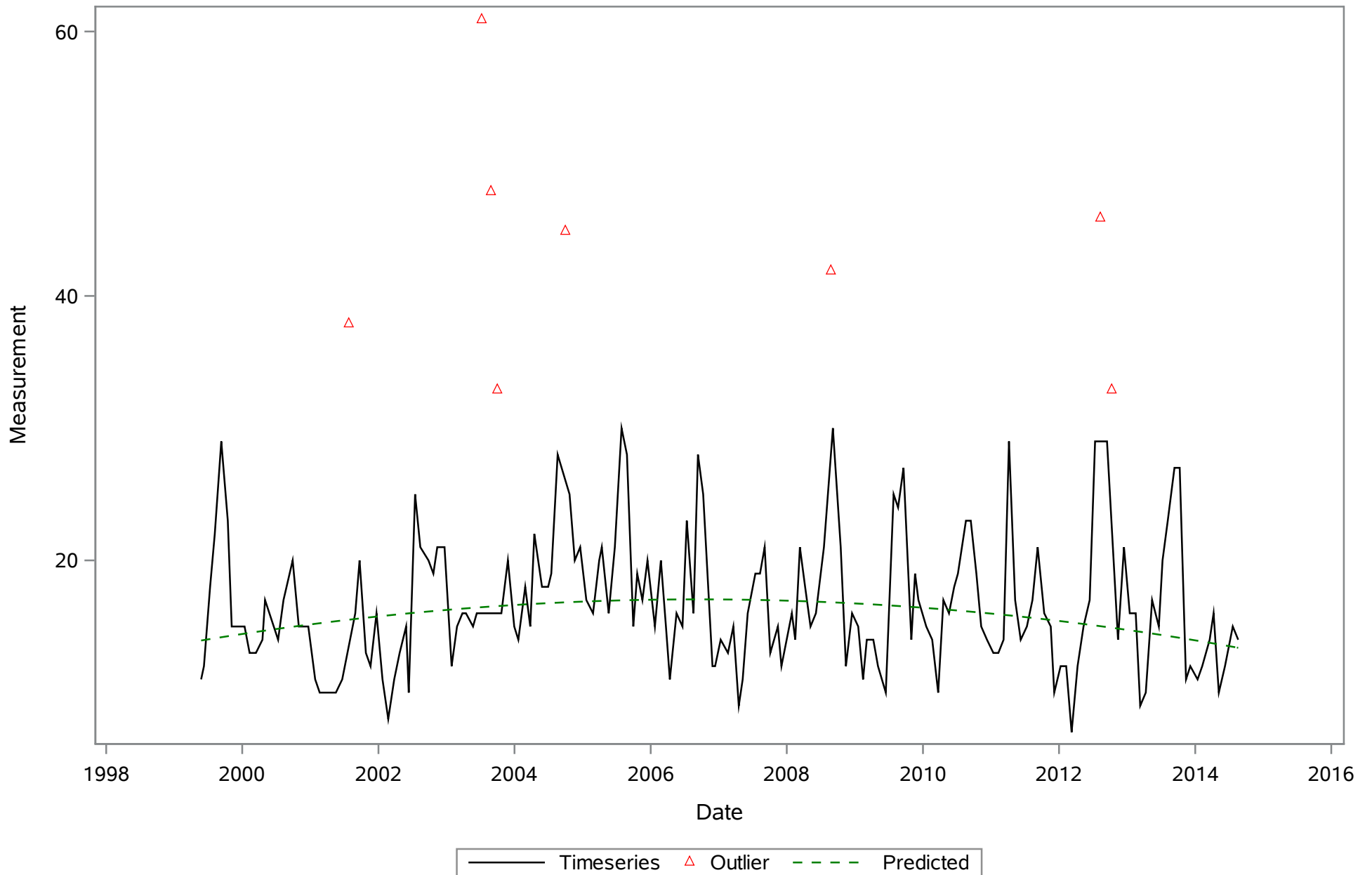


— Timeseries △ Outlier - - - Predicted

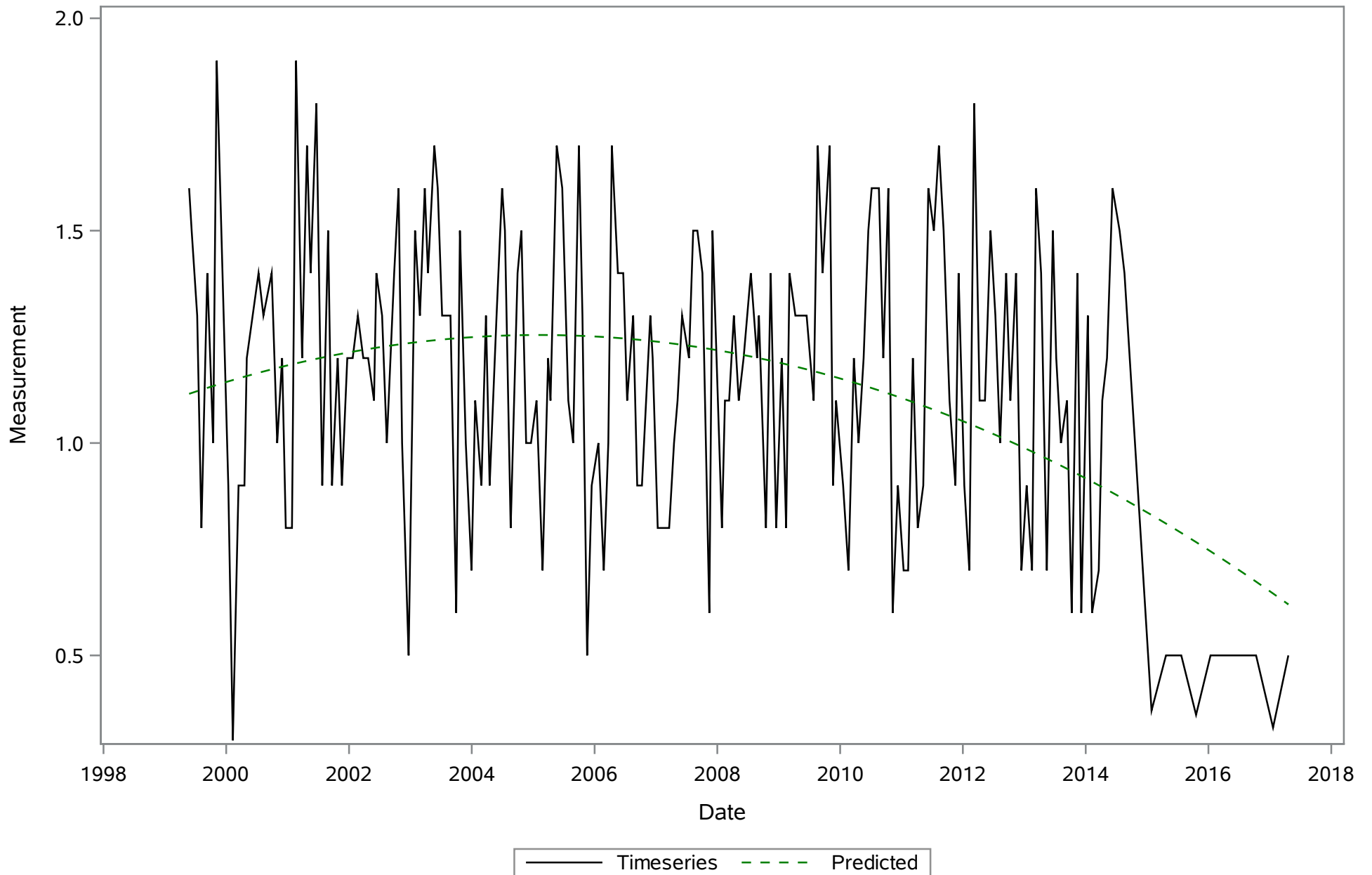
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll a (Total) ug/L



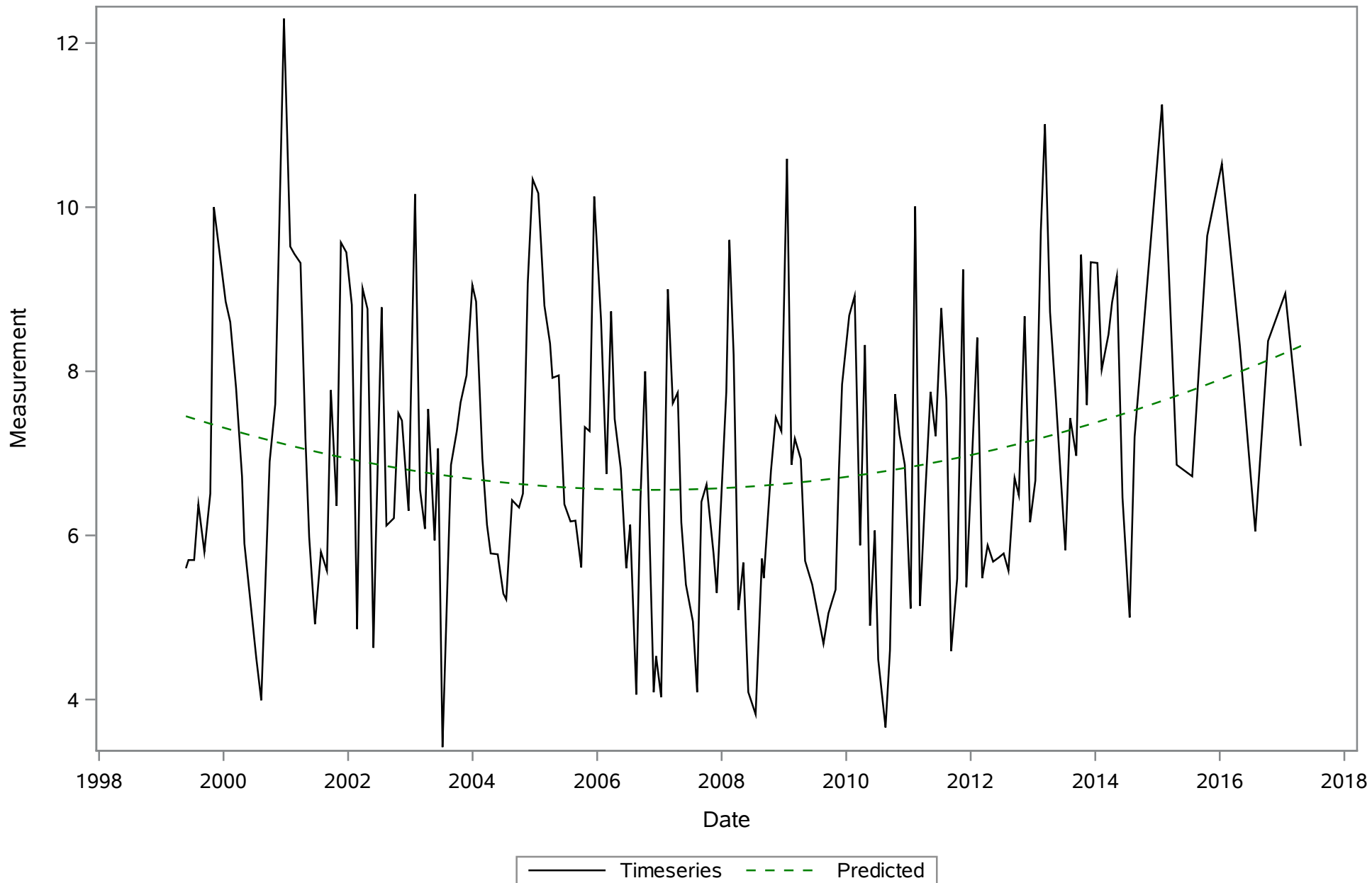
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Color (Total) PCU



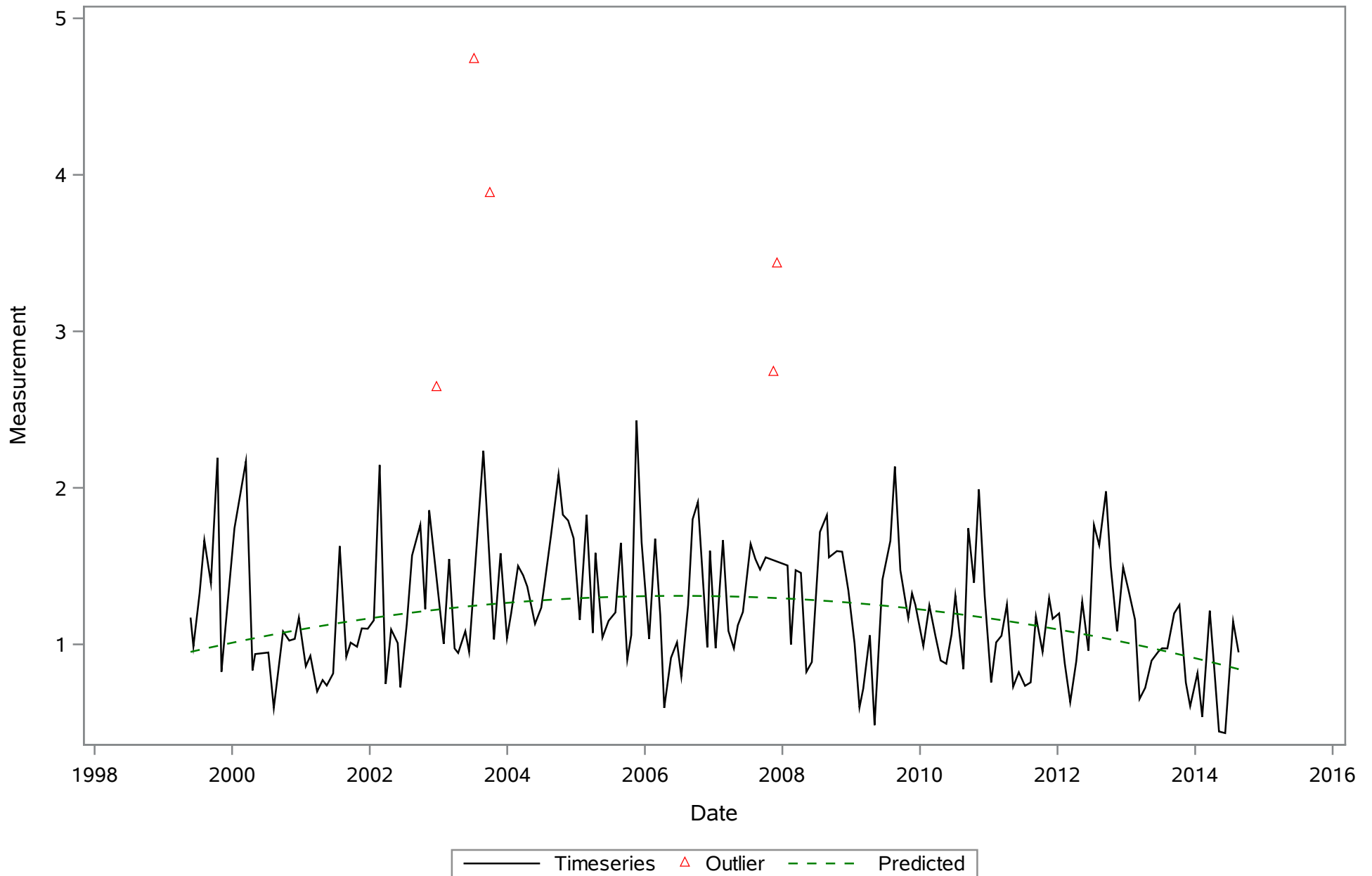
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Depth (Total) Meters



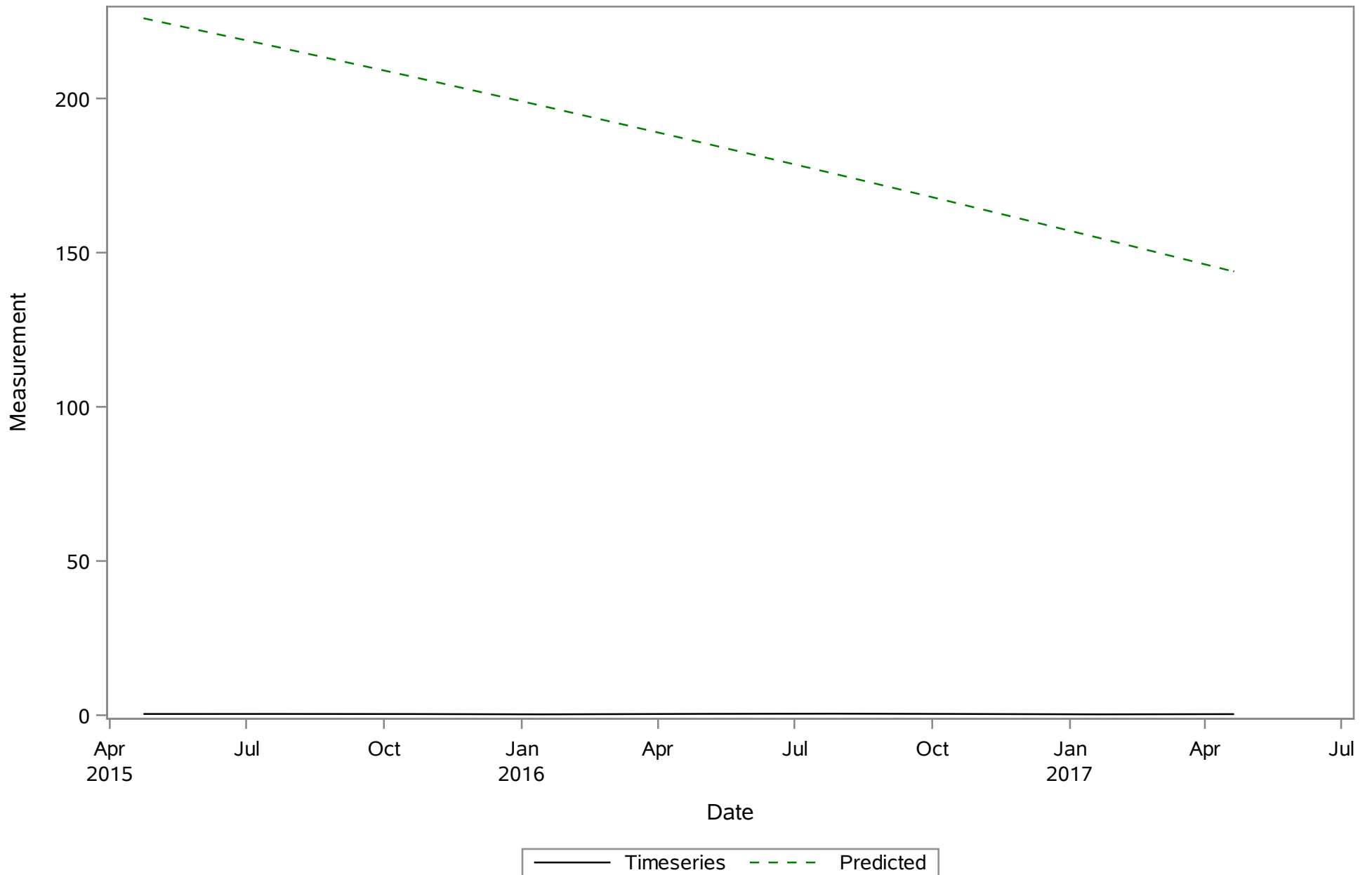
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Dissolved Oxygen (Total) mg/L



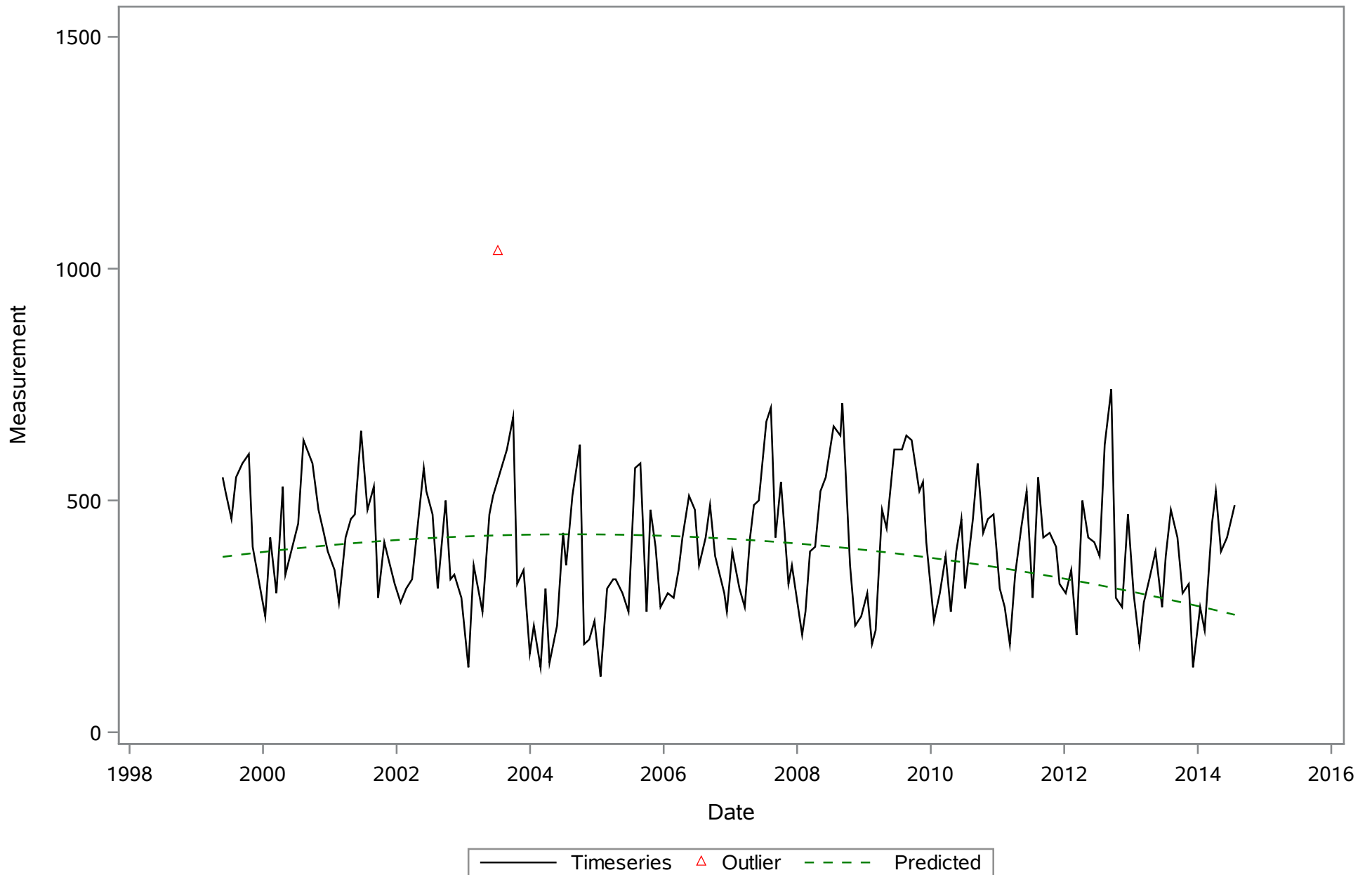
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Light, Attenuation Coefficient Kd/m



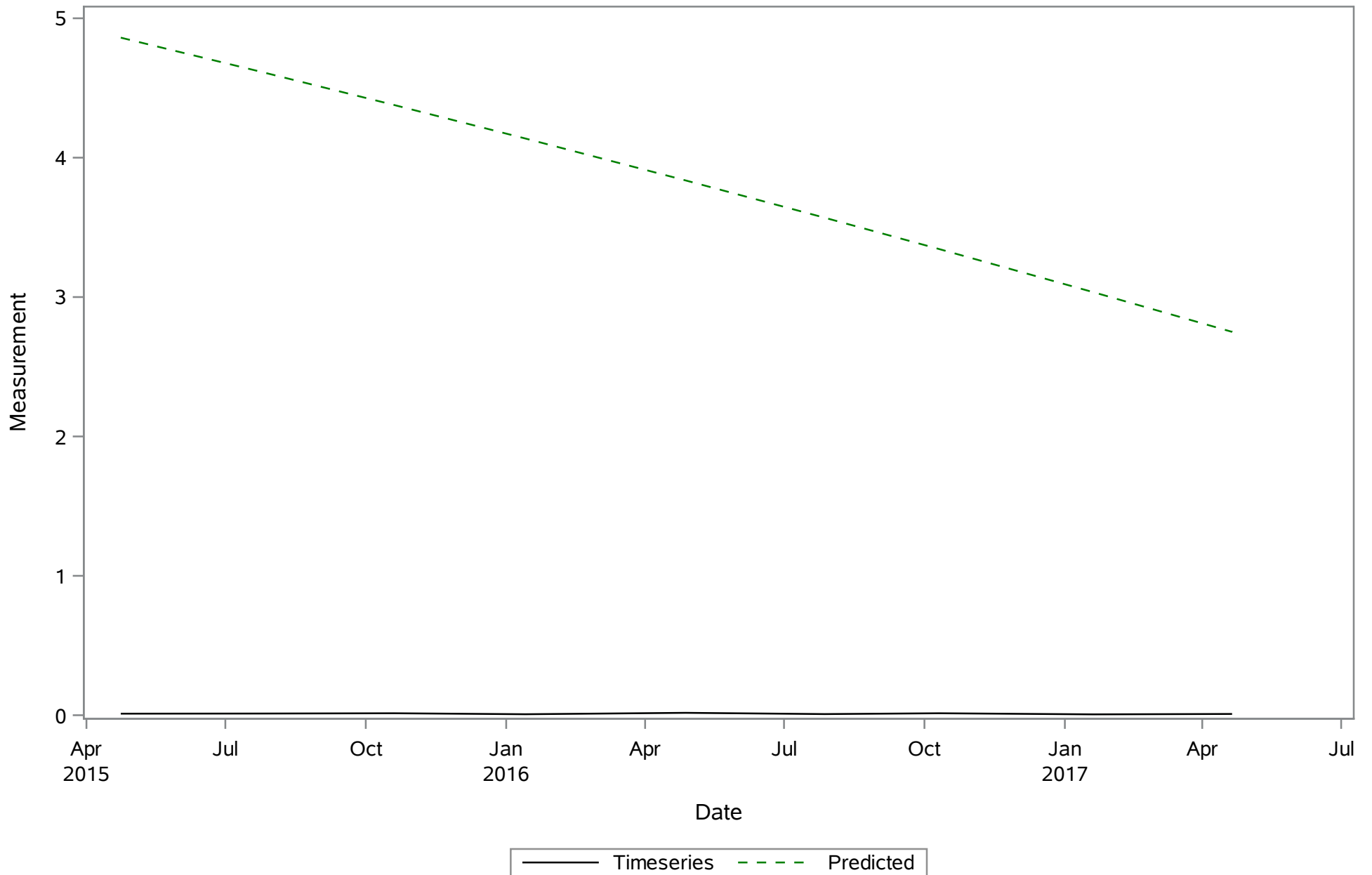
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) mg/L



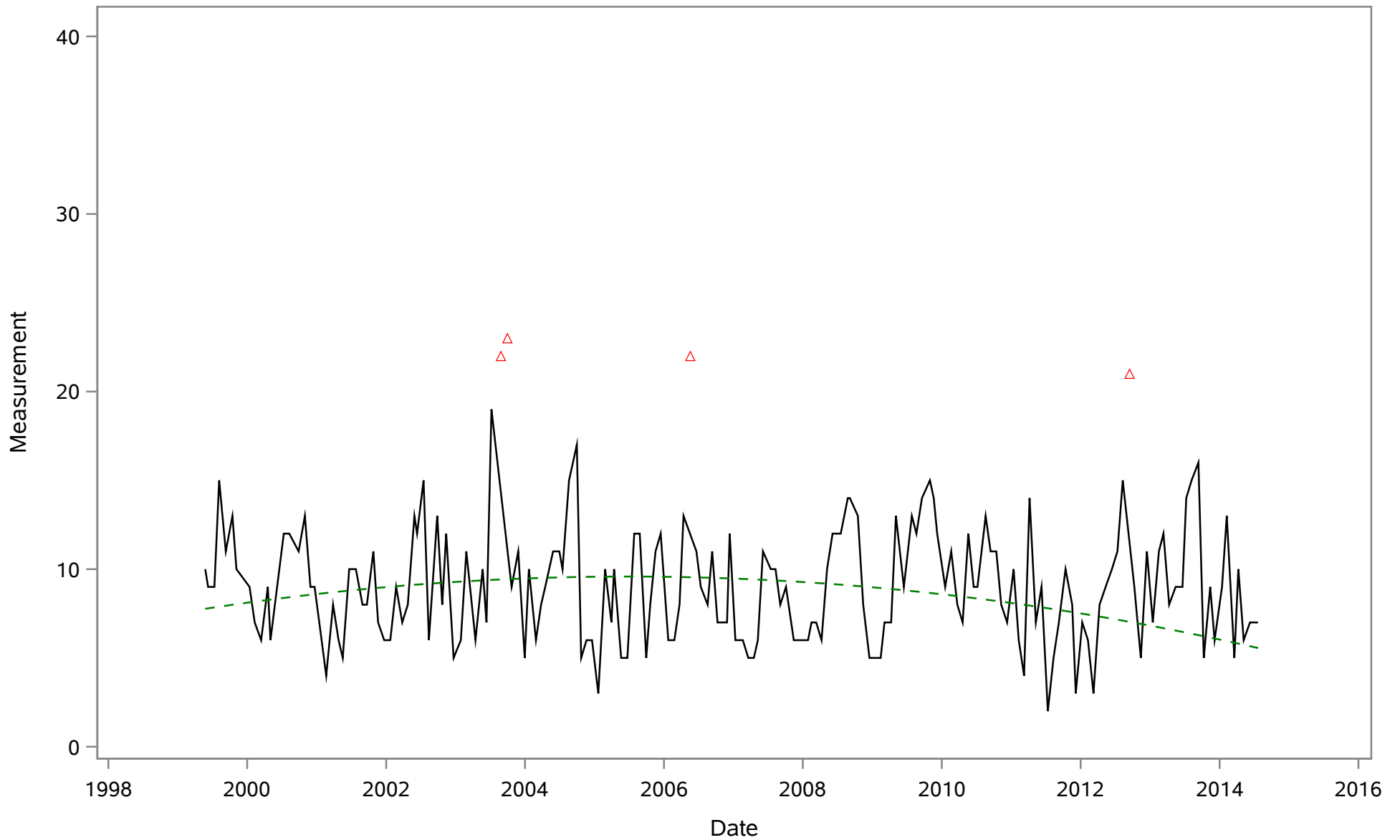
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) ug/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) mg/L

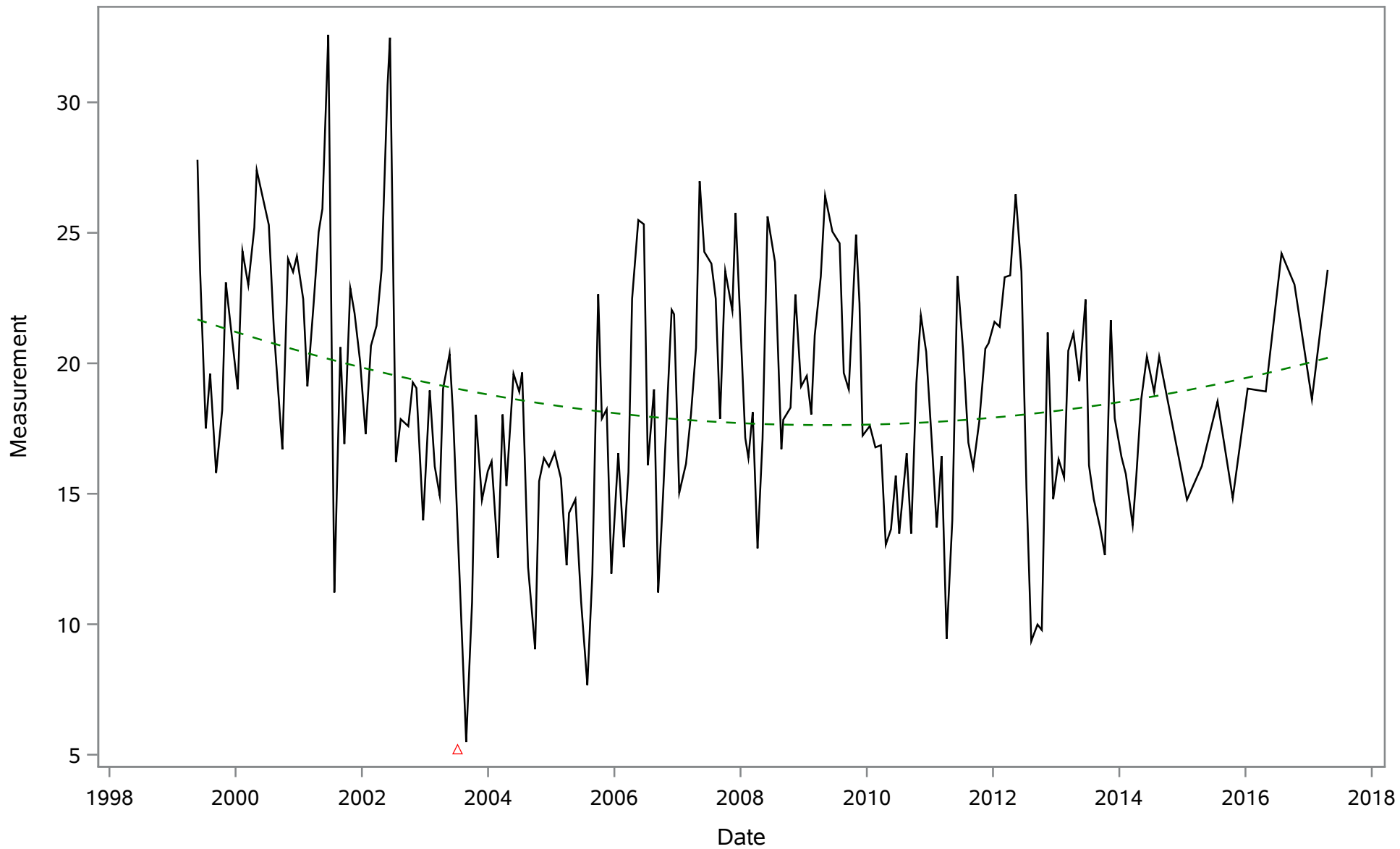


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) ug/L



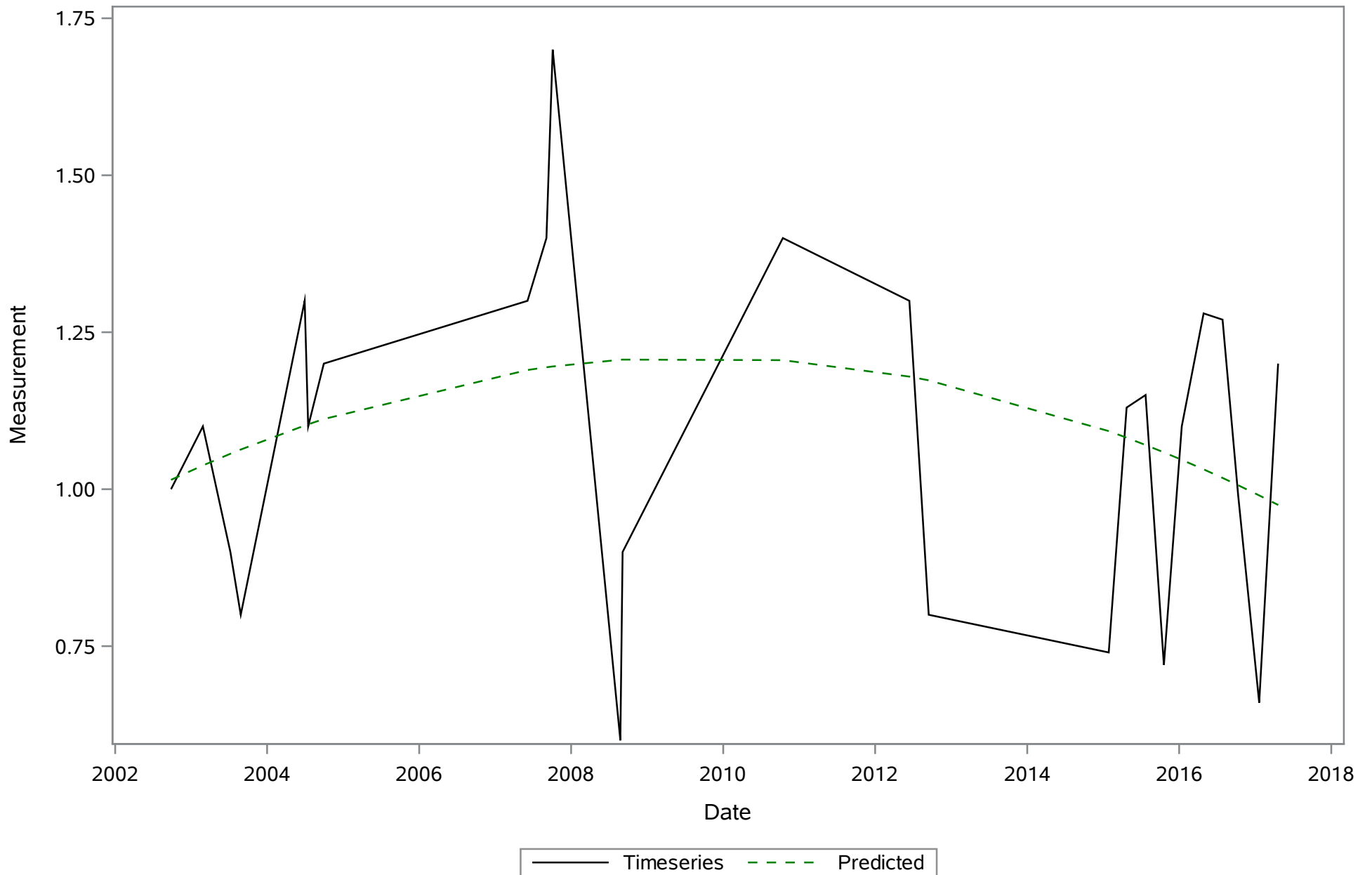
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Salinity (Total) ppt

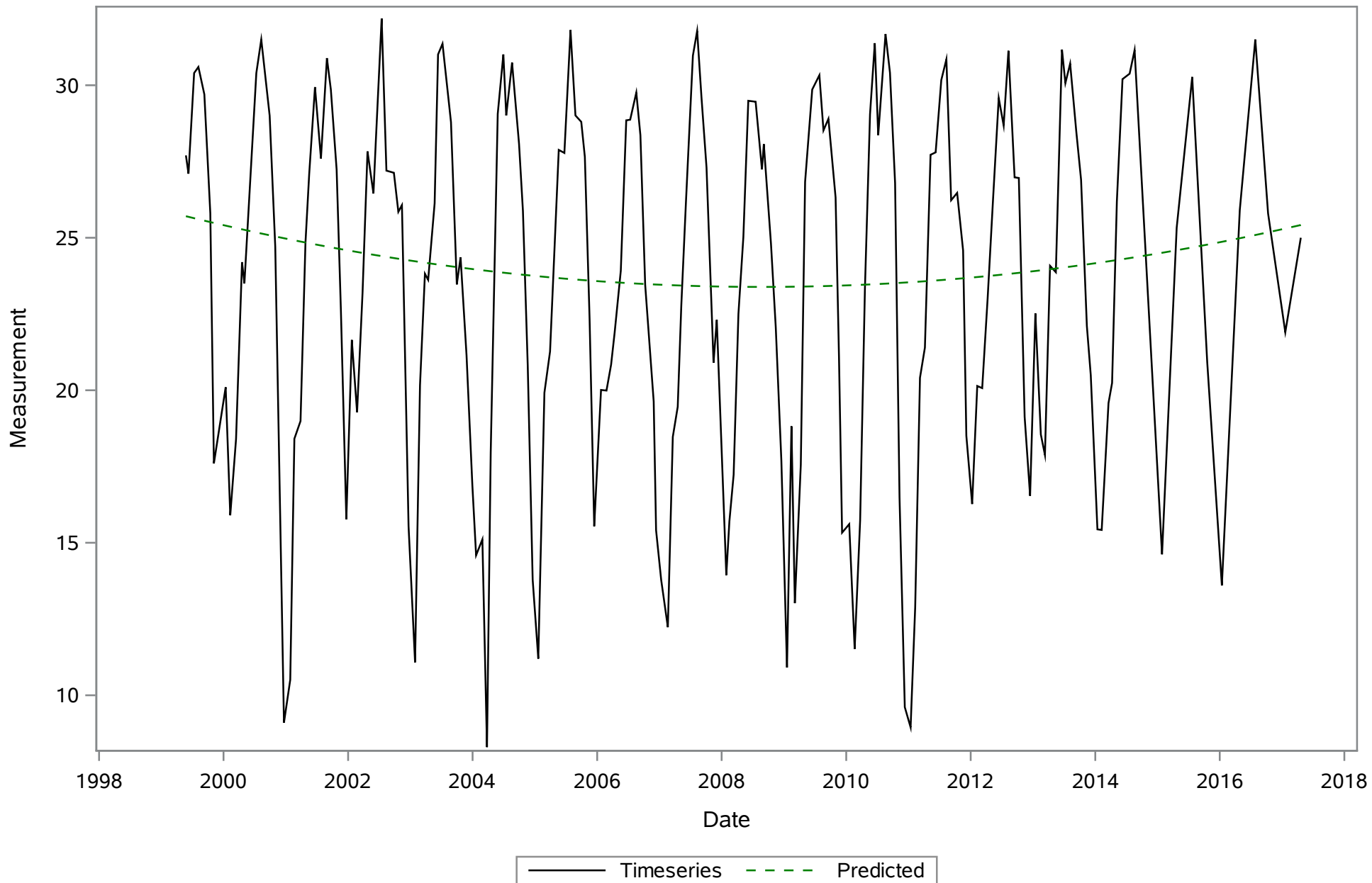


— Timeseries △ Outlier - - - Predicted

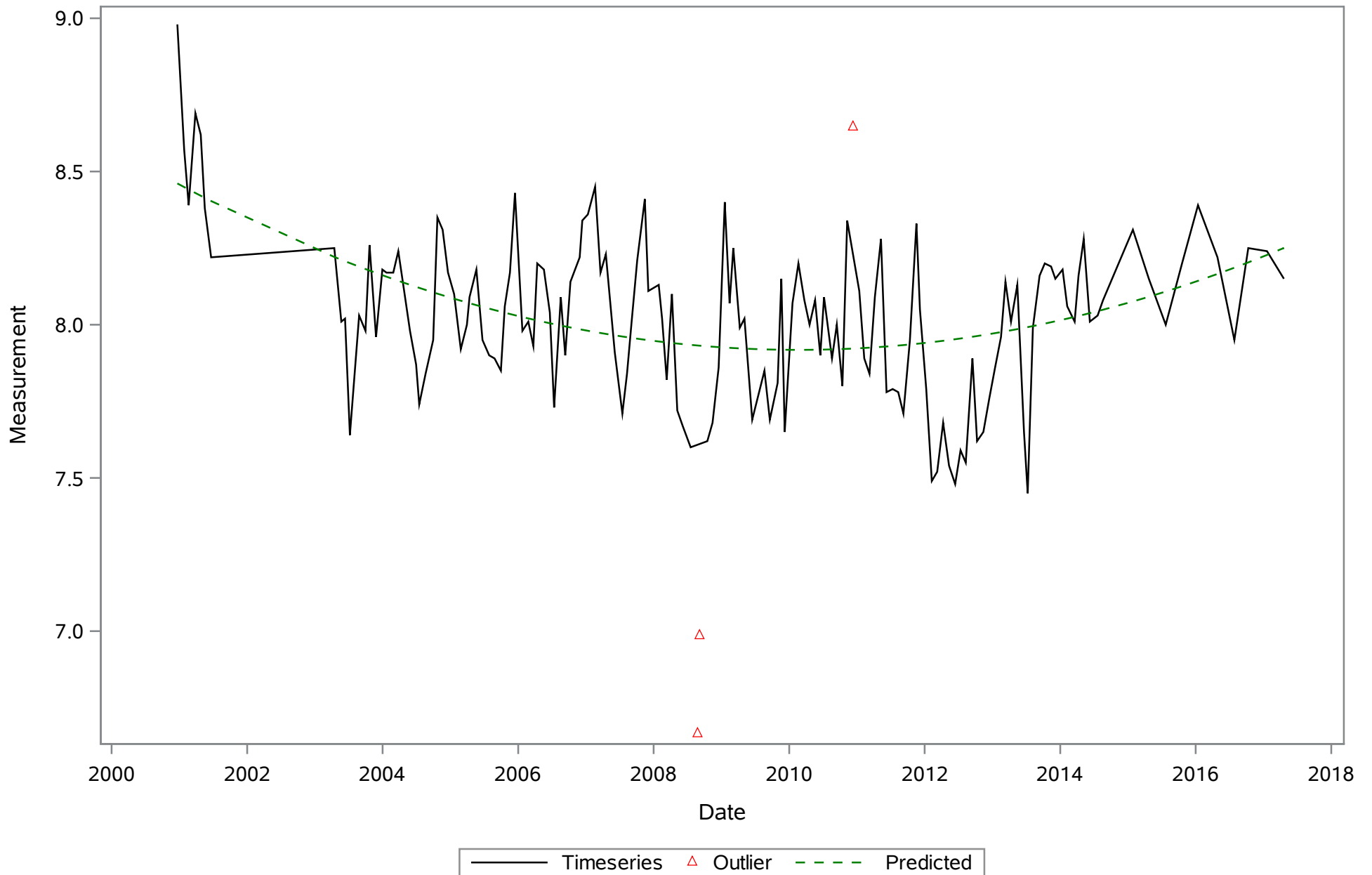
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Secchi-vertical (Total) Meters



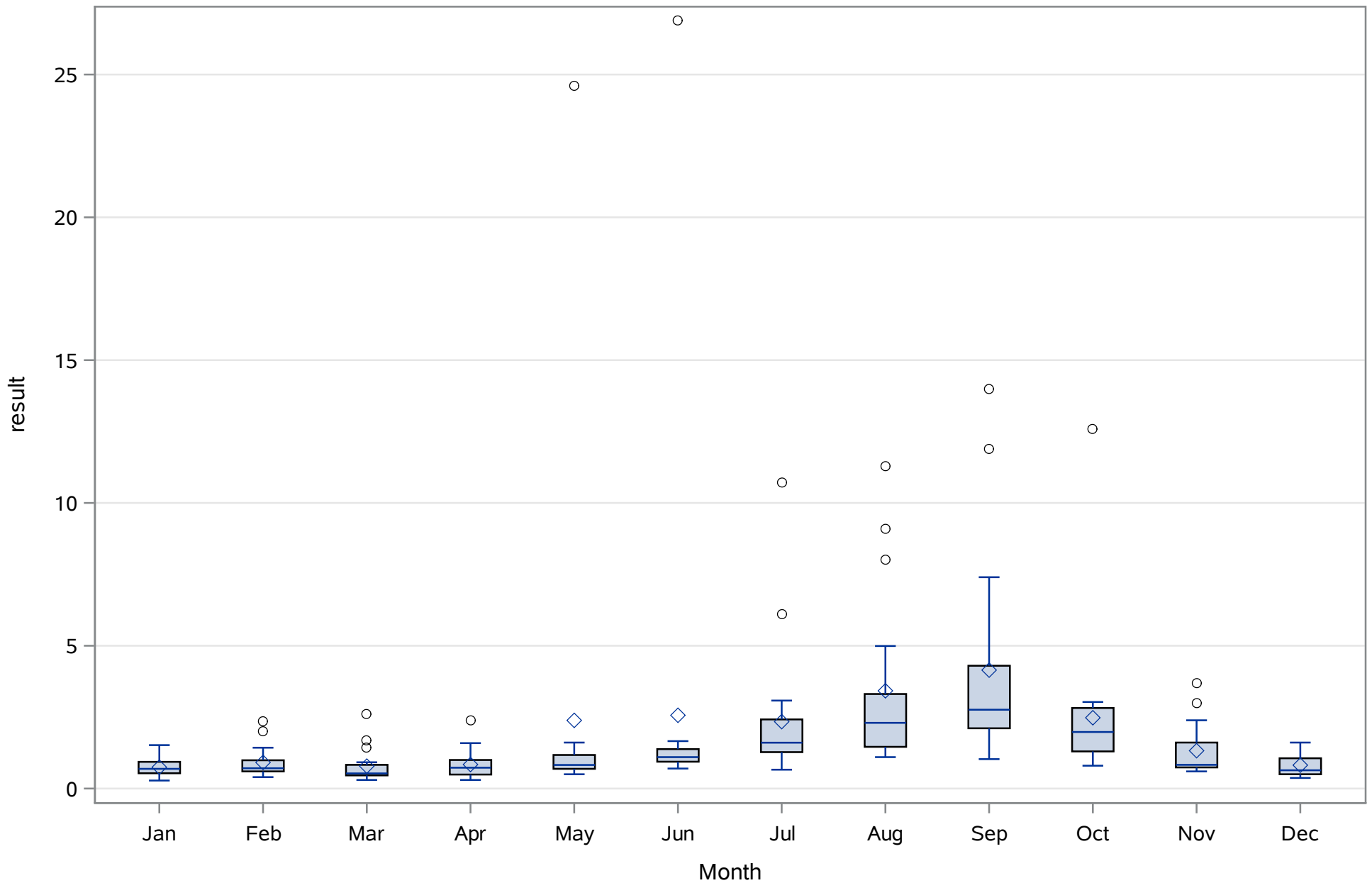
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Temperature (Total) Deg. C



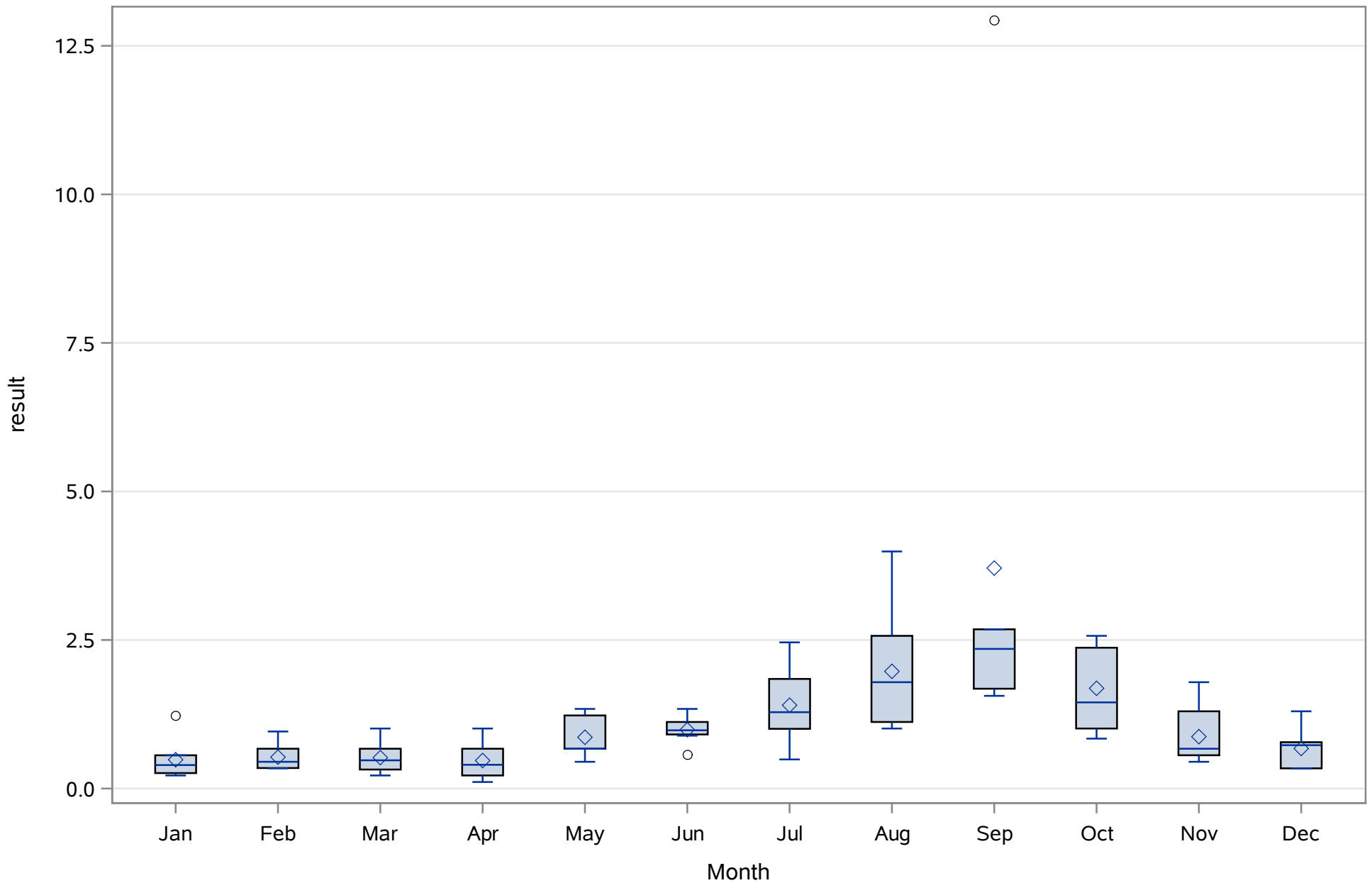
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
pH (Total) SU



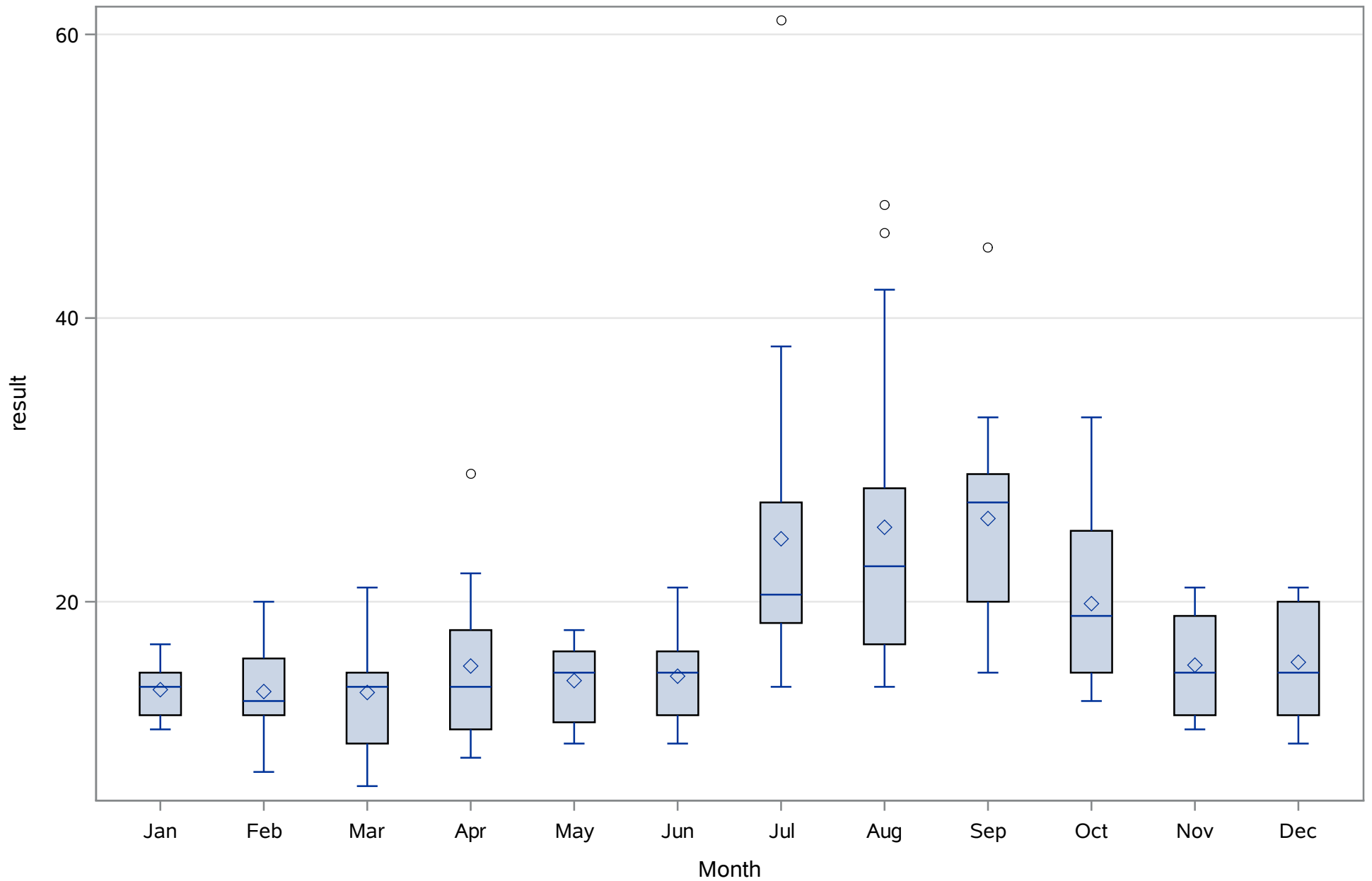
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll (Total) ug/L



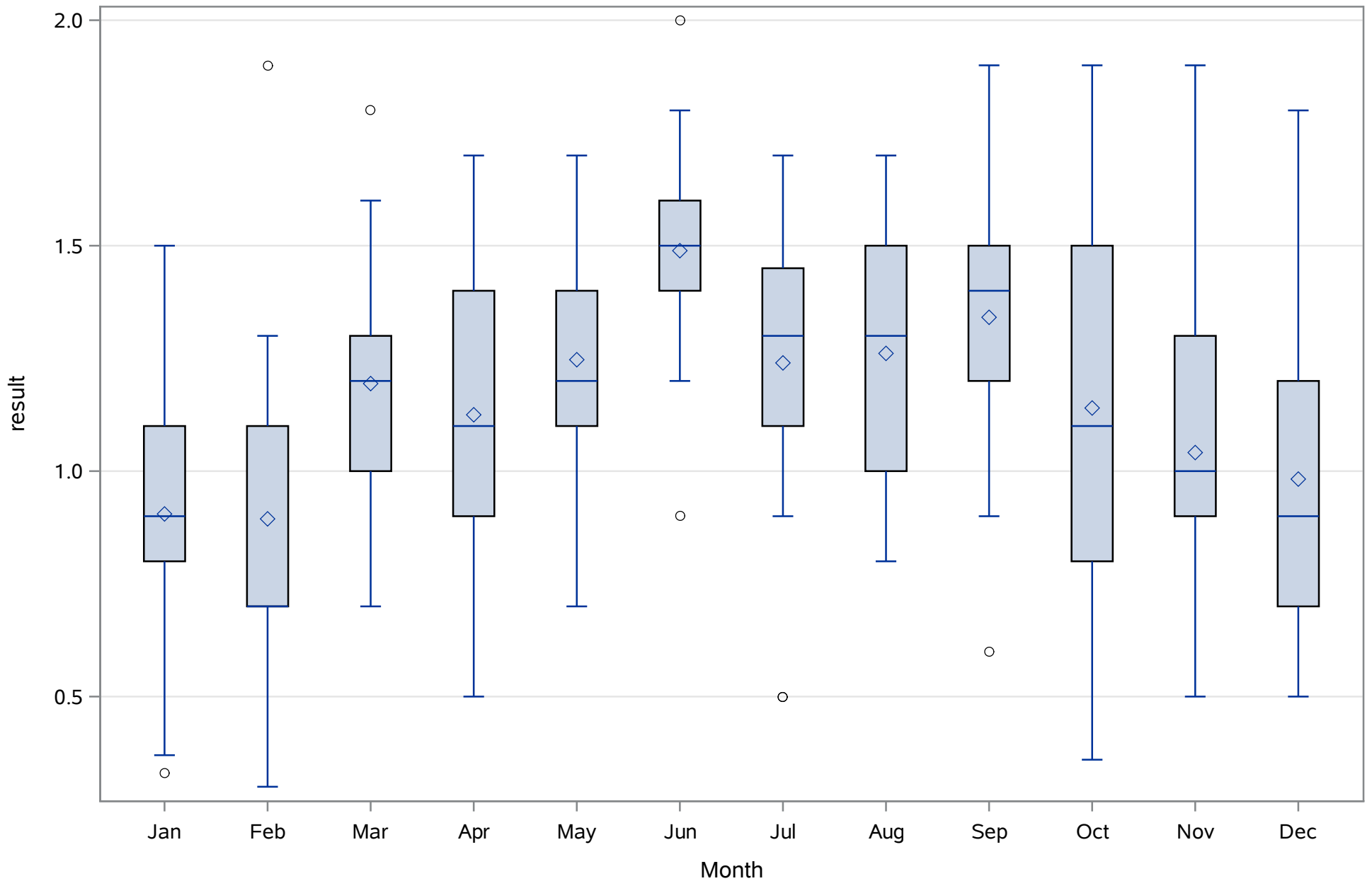
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Chlorophyll a (Total) ug/L



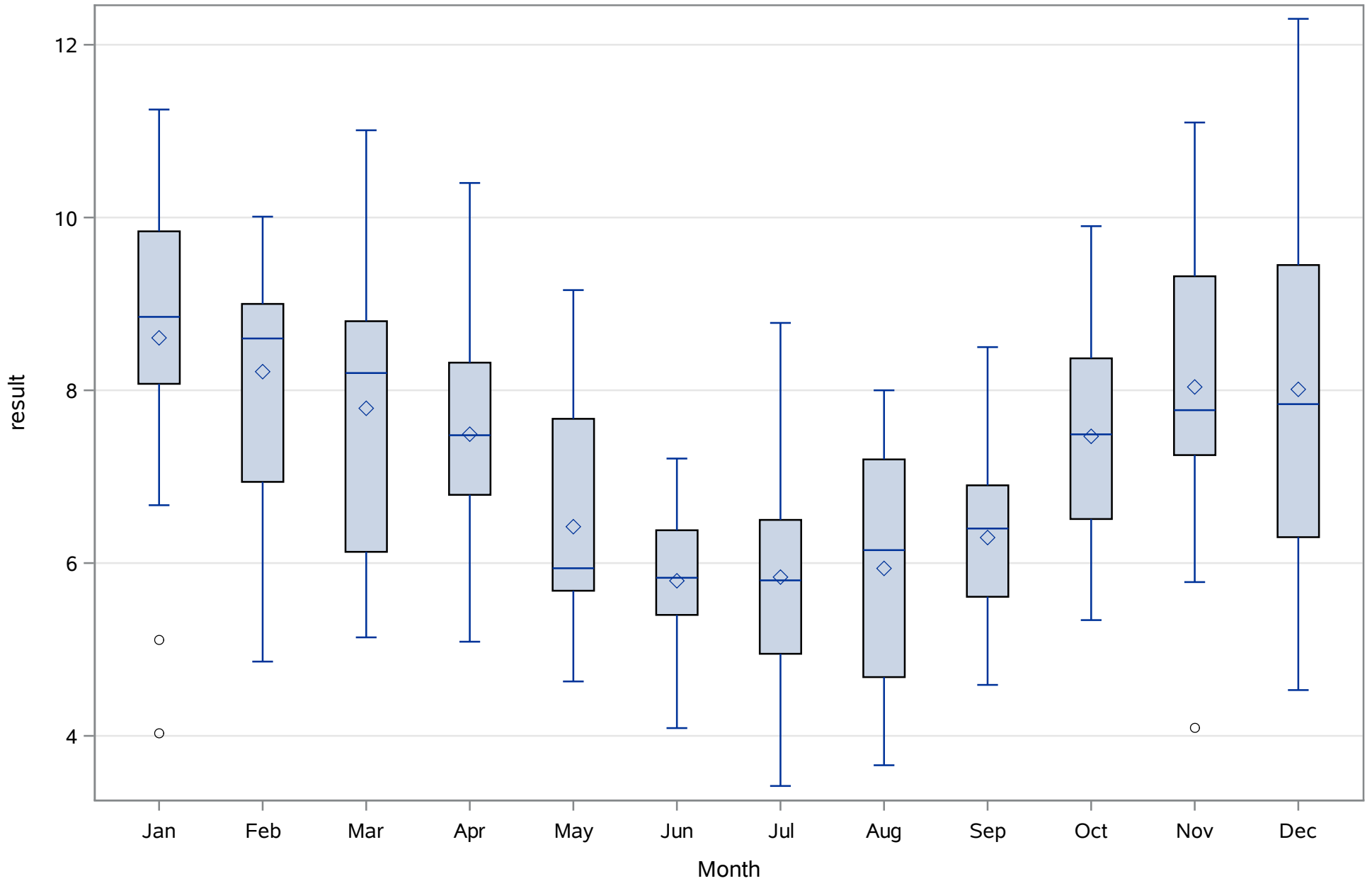
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Color (Total) PCU



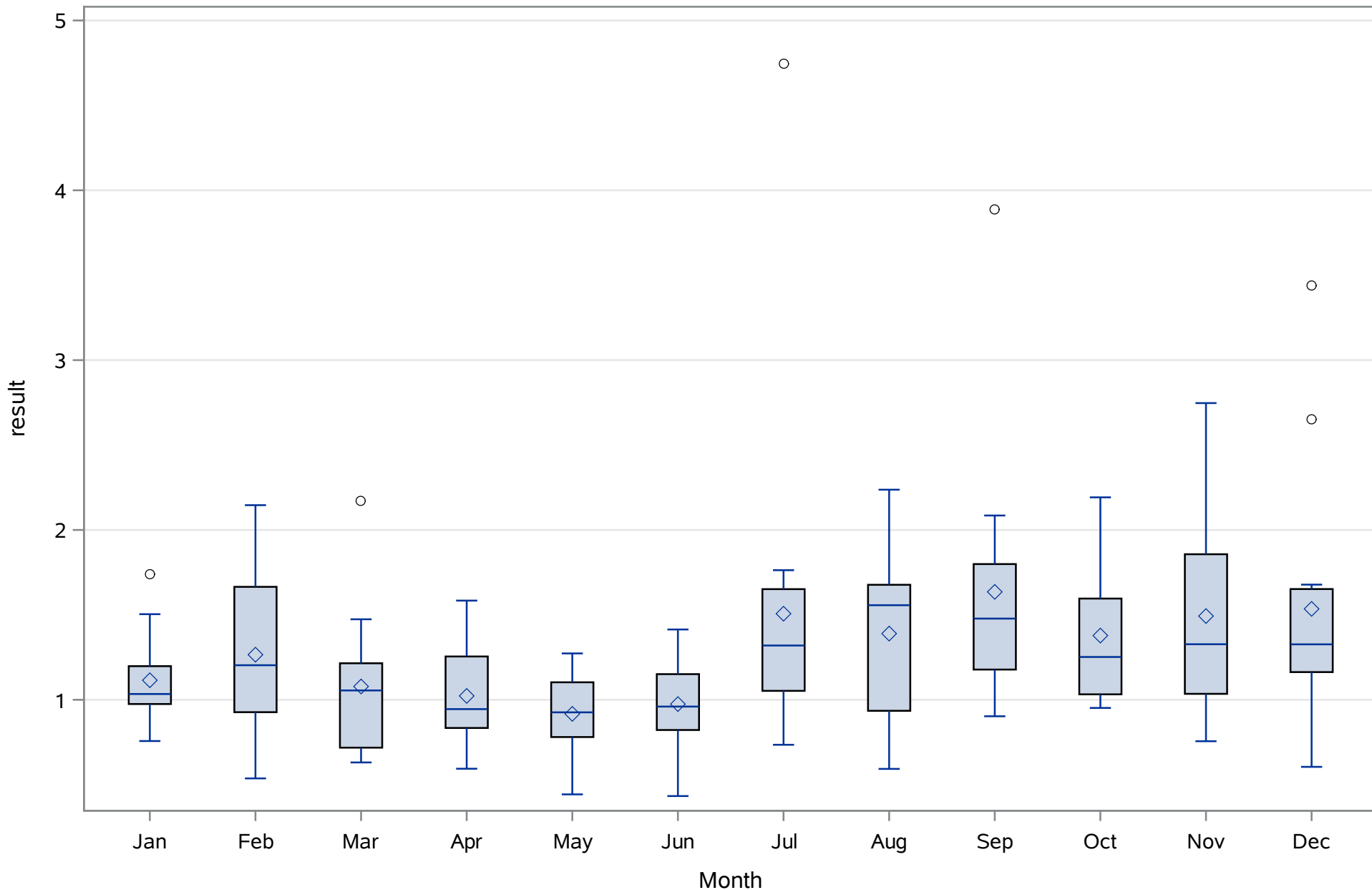
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Depth (Total) Meters



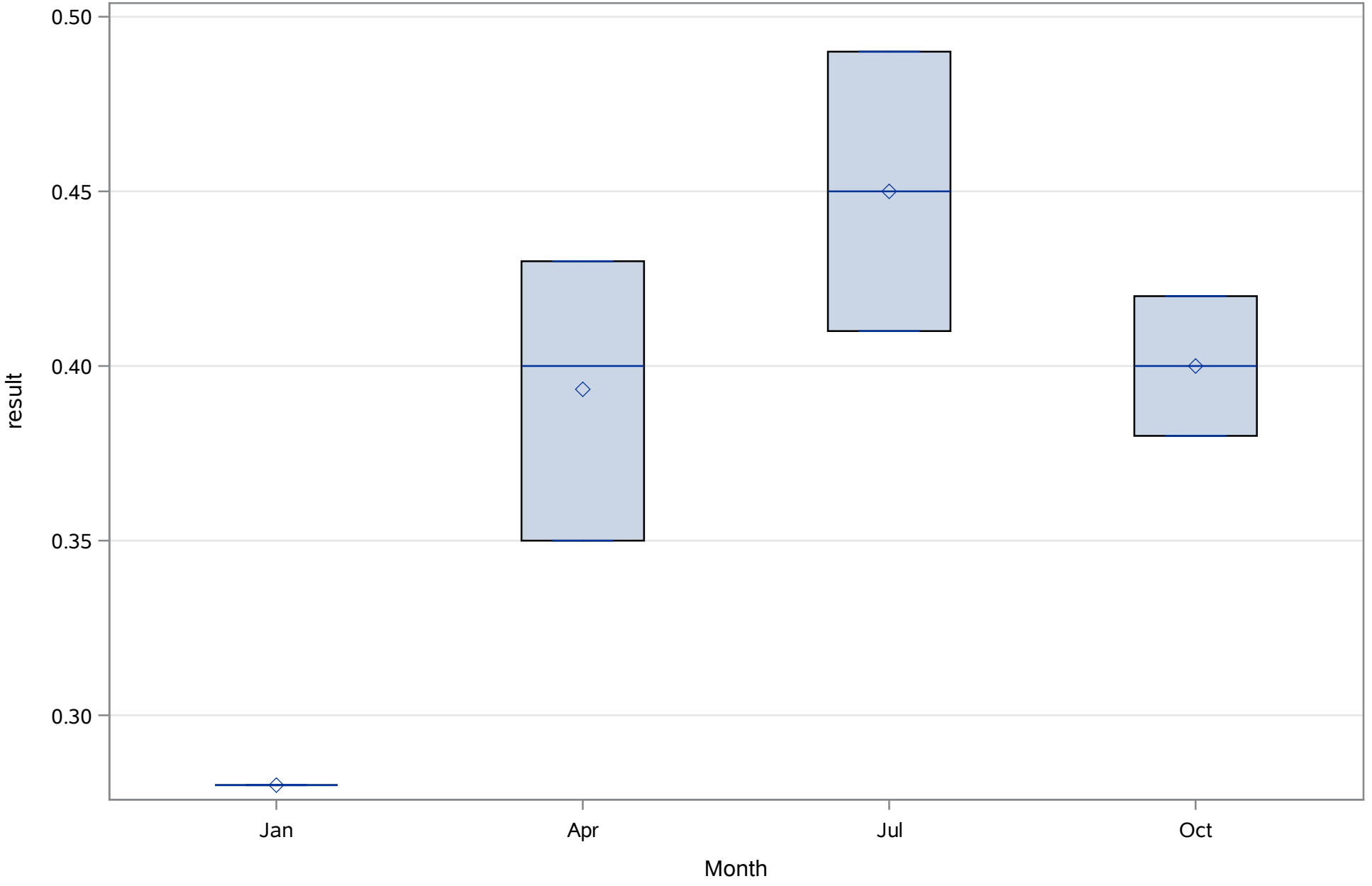
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Dissolved Oxygen (Total) mg/L



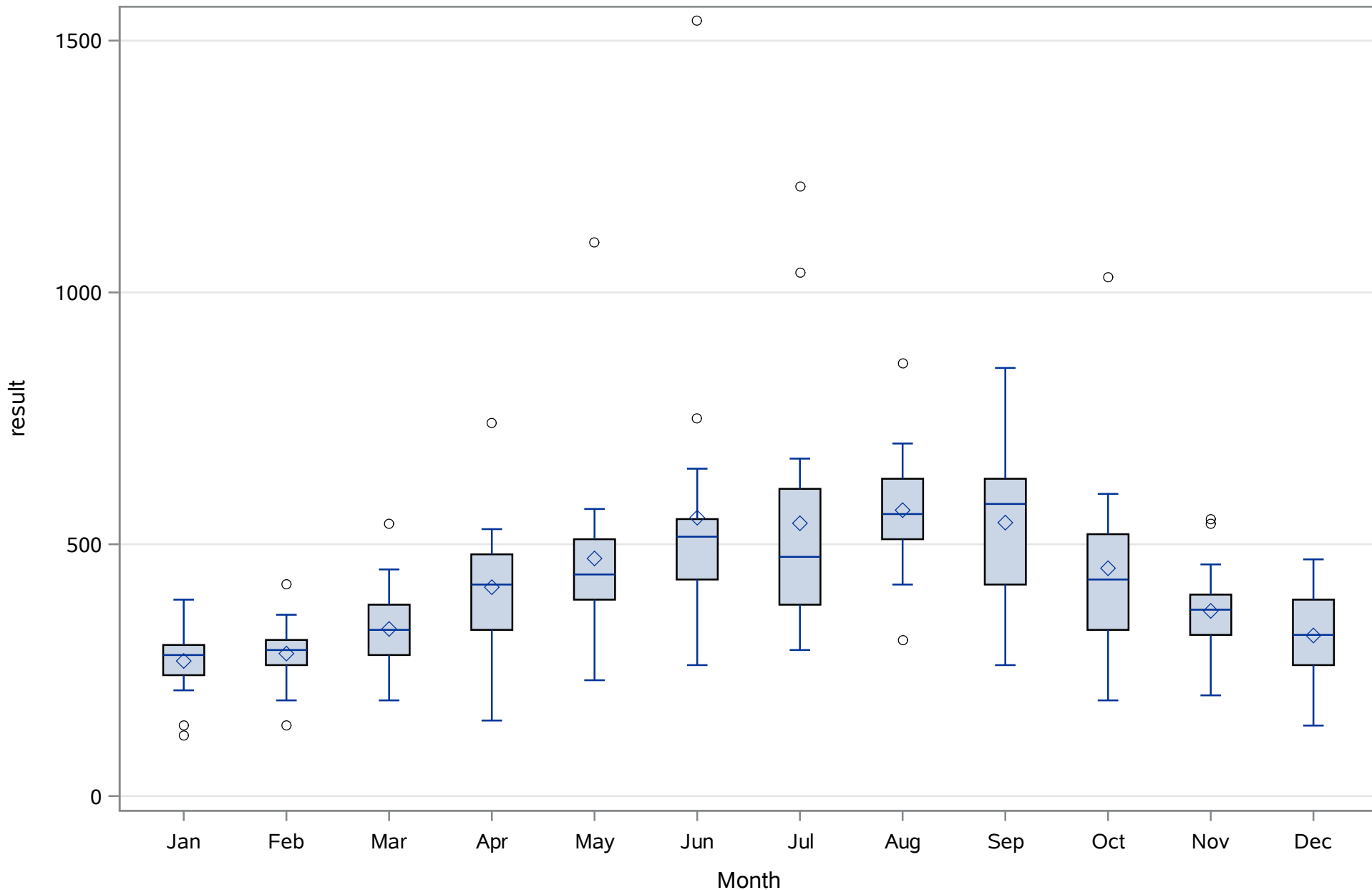
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Light, Attenuation Coefficient Kd/m



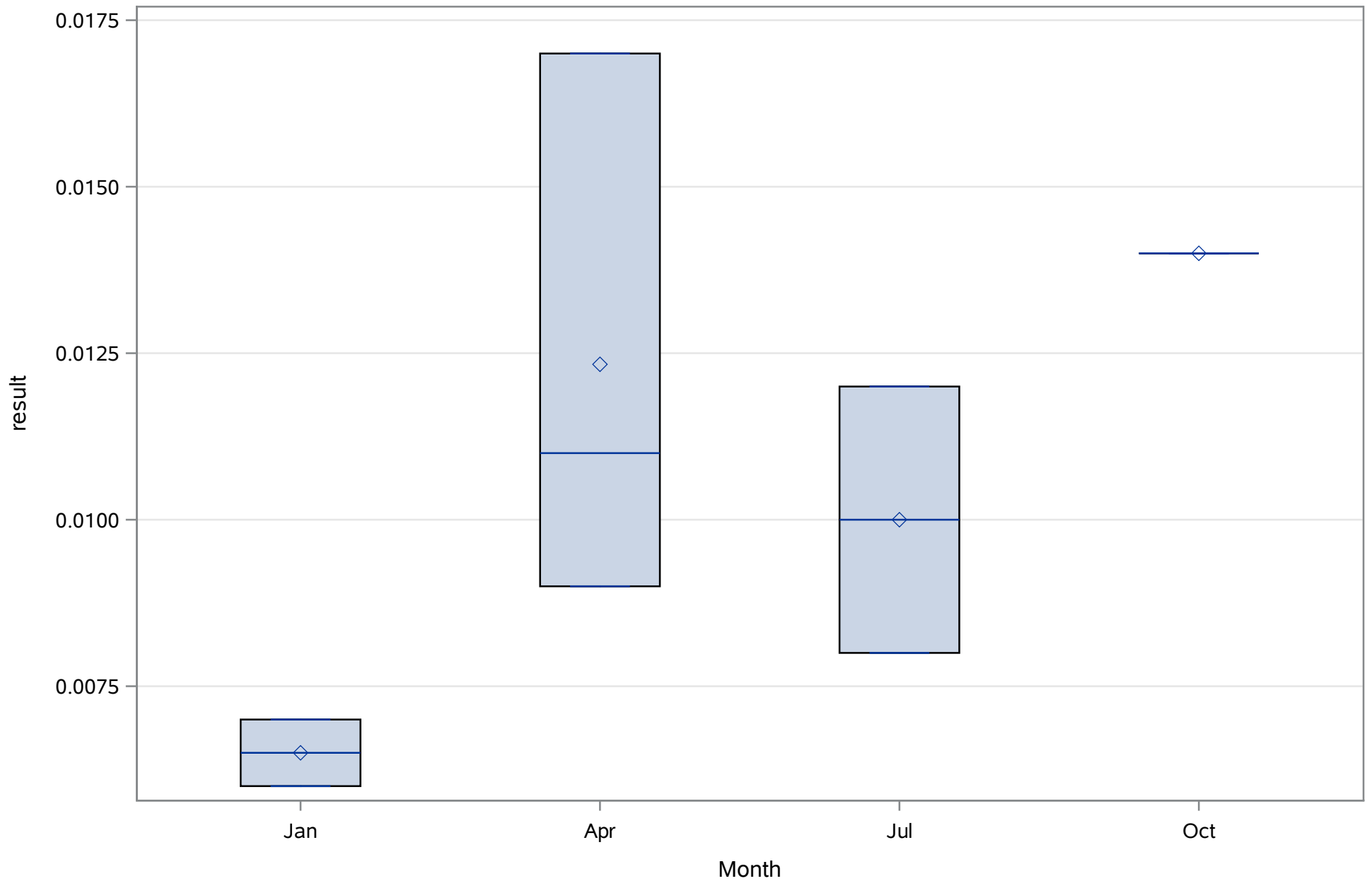
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) mg/L



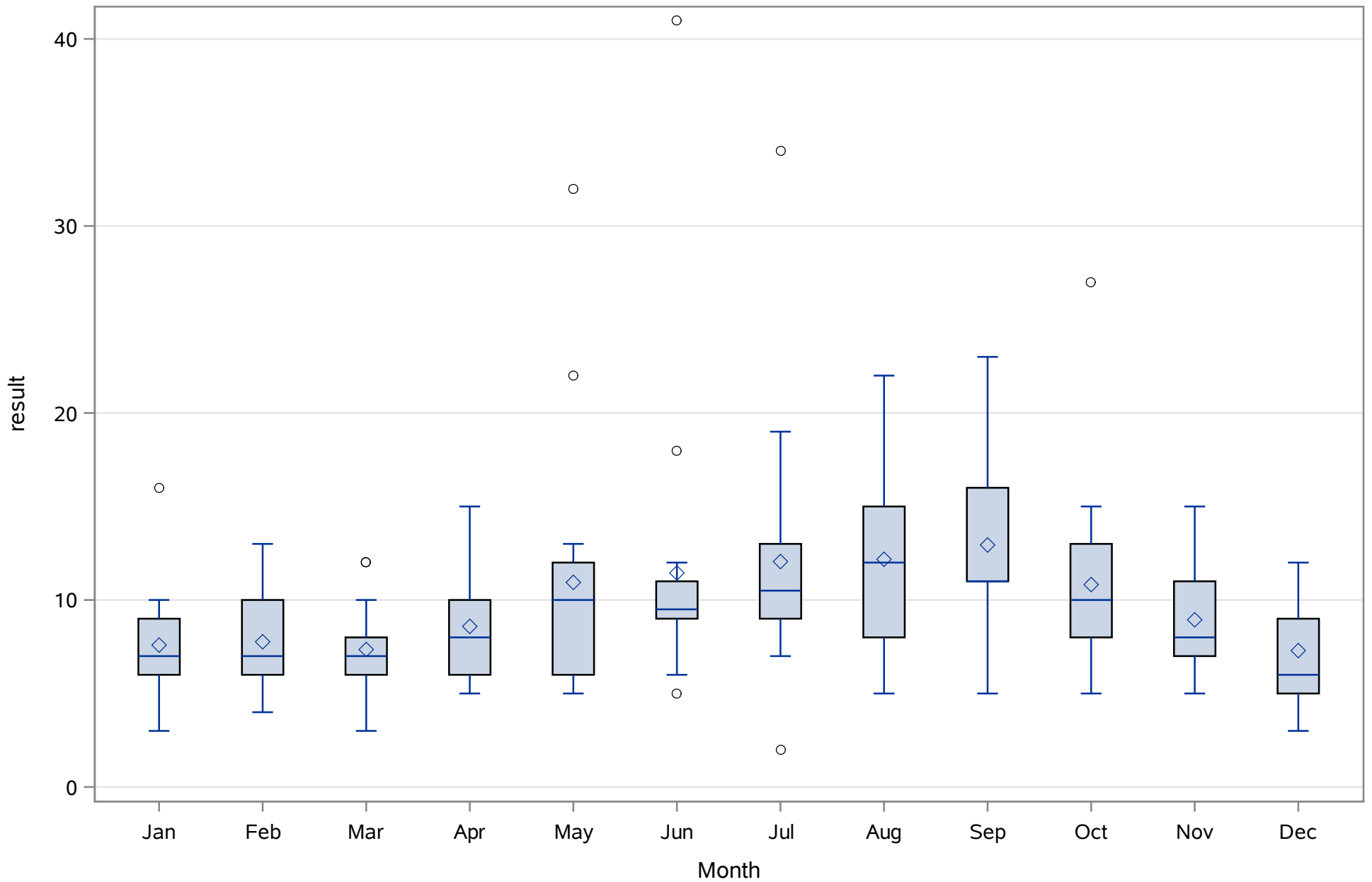
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Nitrogen- Total (Total) ug/L



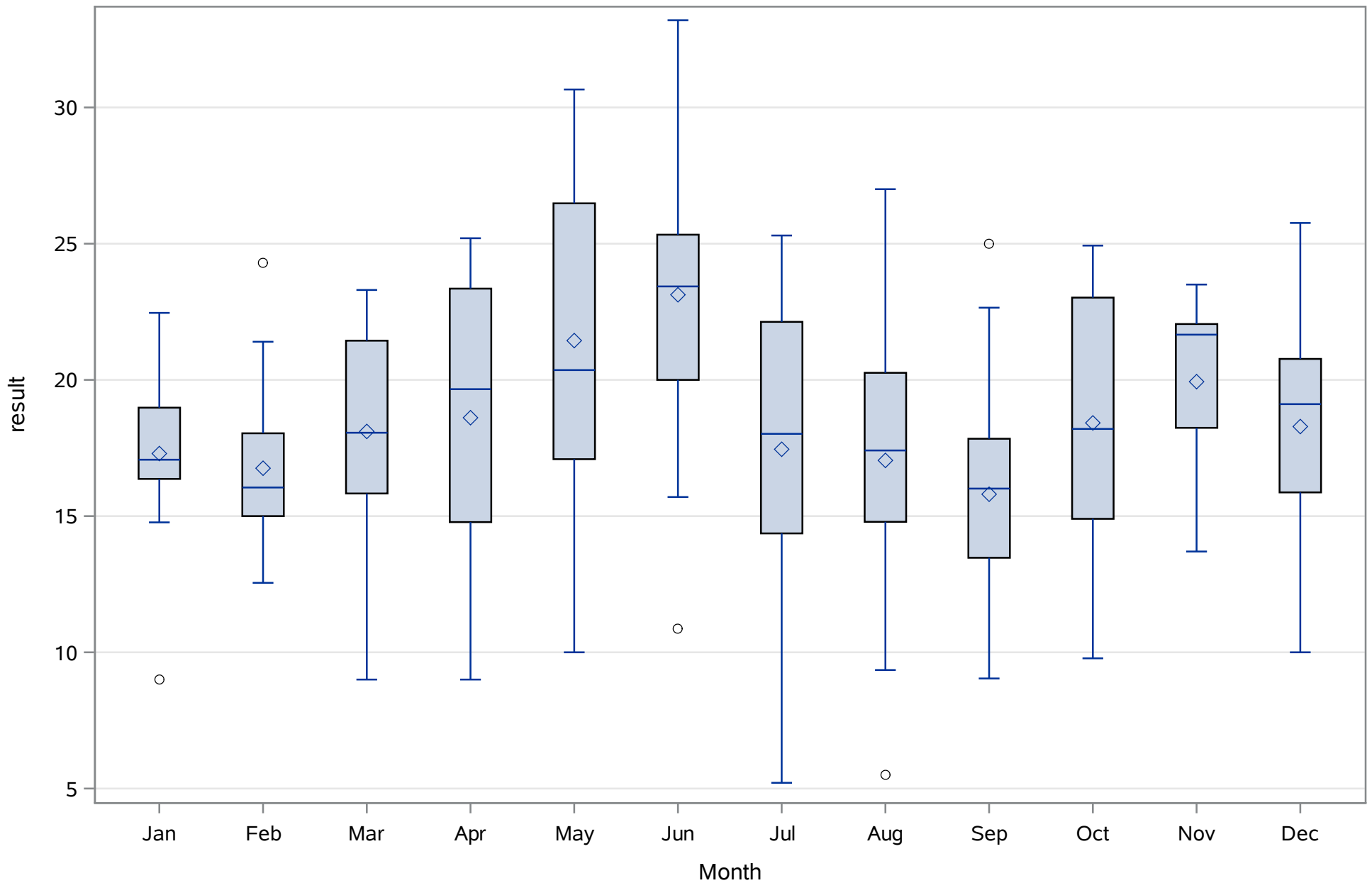
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) mg/L



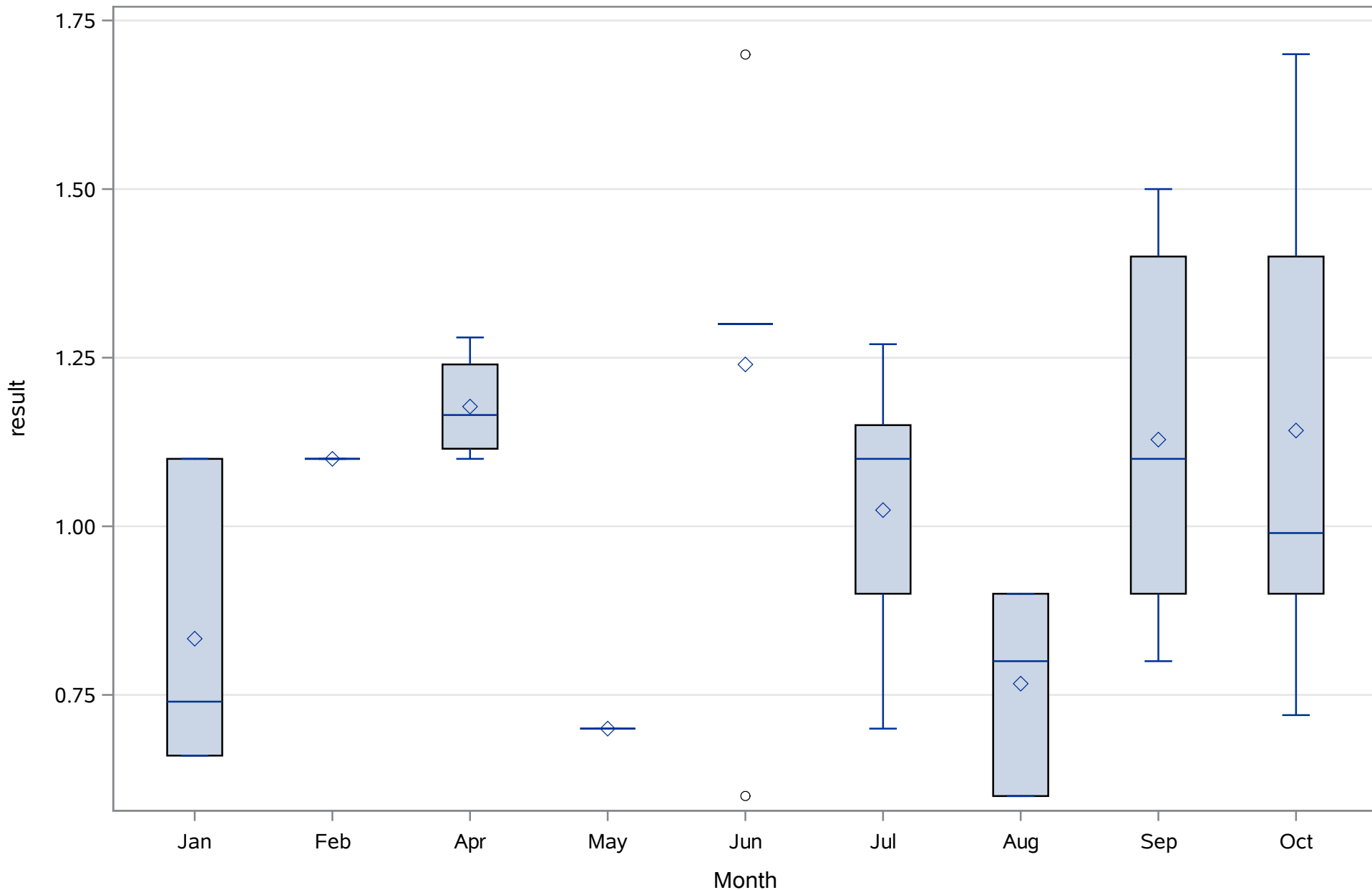
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Phosphorus- Total (Total) ug/L



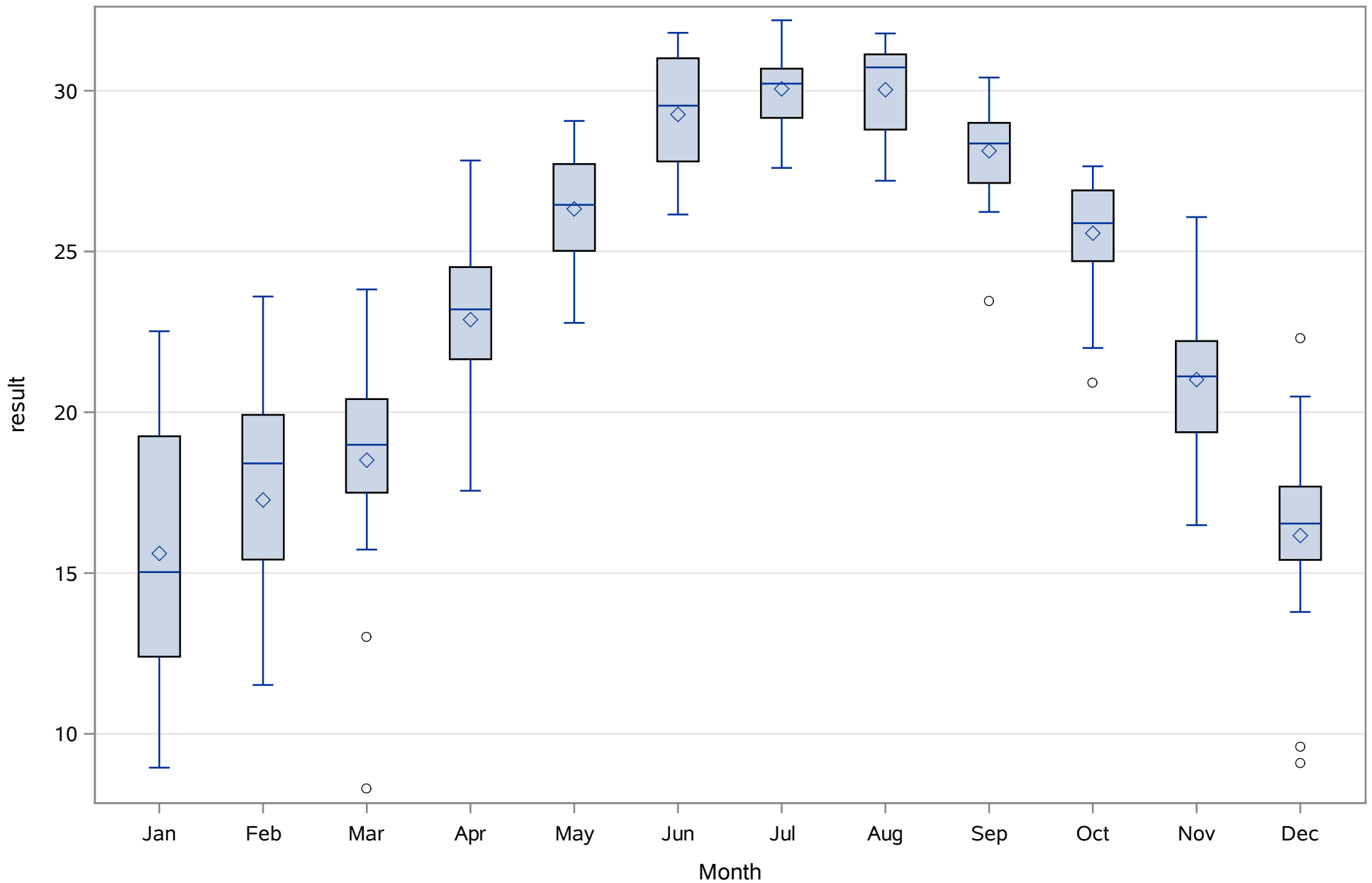
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Salinity (Total) ppth



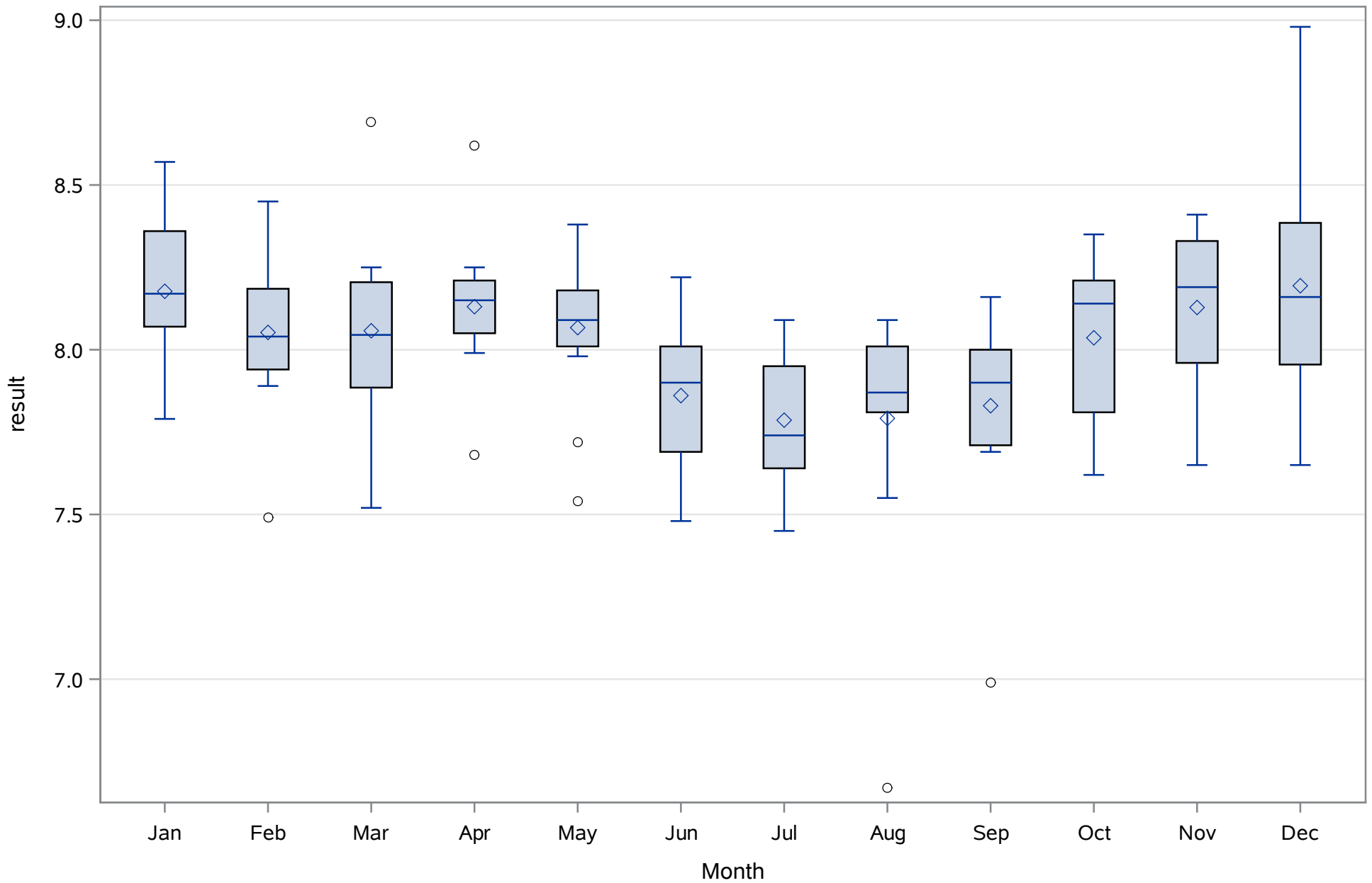
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 7
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	JUN1997	APR2017	215	7.0%	1.9%	2.3%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	90	6.7%	0.0%	2.2%
Color (Dissolved)	PCU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Color (Total)	PCU	MAY1999	AUG2014	183	6.0%	1.1%	3.3%
Depth (Total)	Meters	JUN1997	APR2017	216	0.0%	1.9%	0.0%
Depth, bottom (Total)	Meters	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	APR2017	216	0.5%	1.9%	0.5%
Iron (Dissolved)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	183	2.7%	1.1%	1.1%
Magnesium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	0.0%	1.0%	1.9%
Orthophosphate (P) (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	100.0%
Phaeophytin (Total)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	10.0%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	0.5%	1.0%	2.4%
Potassium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Salinity (Total)	ppth	JUN1997	APR2017	217	0.0%	1.8%	0.0%
Secchi-vertical (Total)	Meters	MAY1998	APR2017	18	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	APR2017	216	0.0%	1.9%	0.0%
Turbidity (Total)	NTU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
pH (Total)	SU	DEC2000	APR2017	154	1.9%	1.3%	1.3%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	2.08283721	Sum Observations	447.81
Std Deviation	3.23695193	Variance	10.4778578
Skewness	5.08150393	Kurtosis	30.5846938
Uncorrected SS	3174.9769	Corrected SS	2242.26157
Coeff Variation	155.410702	Std Error Mean	0.22075829

Basic Statistical Measures			
Location		Variability	
Mean	2.082837	Std Deviation	3.23695
Median	1.200000	Variance	10.47786
Mode	0.600000	Range	26.60000
		Interquartile Range	1.22000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.434922	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.80
99%	18.30
95%	6.07
90%	3.68
75% Q3	2.00
50% Median	1.20
25% Q1	0.78
10%	0.55
5%	0.40
1%	0.30
0% Min	0.20

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	35	14.6	12
0.23	141	15.7	17
0.30	139	18.3	16
0.32	189	24.6	14
0.34	119	26.8	13

Chassahowitzka River - Fixed Station

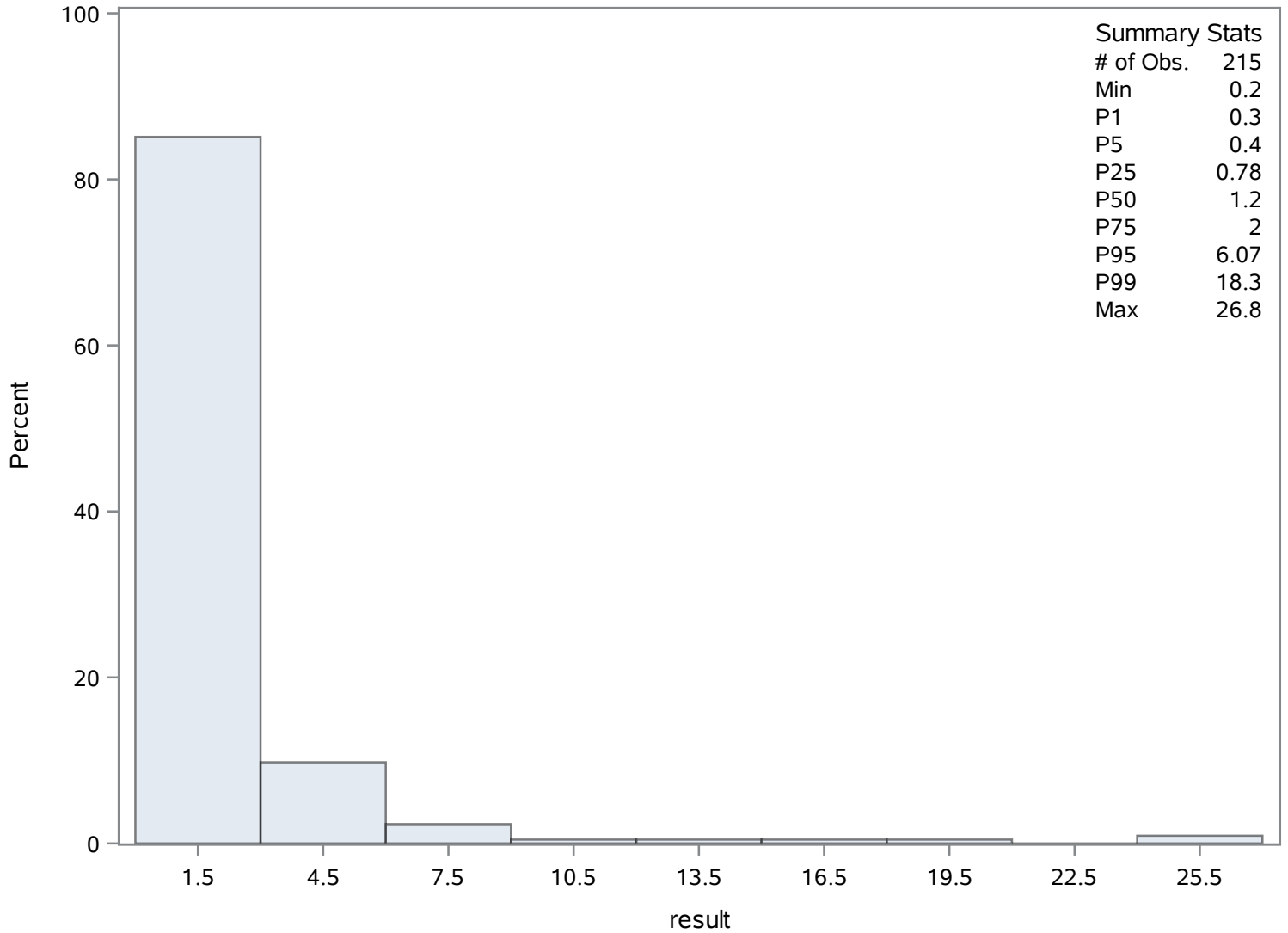
Source: COAST

Chassahowitzka Hernando 8

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	90	Sum Weights	90
Mean	1.3066667	Sum Observations	117.6
Std Deviation	1.03521479	Variance	1.07166966
Skewness	1.85870674	Kurtosis	3.50049602
Uncorrected SS	249.0426	Corrected SS	95.3786
Coeff Variation	79.2256217	Std Error Mean	0.10912122

Basic Statistical Measures			
Location		Variability	
Mean	1.306667	Std Deviation	1.03521
Median	0.920000	Variance	1.07167
Mode	0.670000	Range	5.14000
		Interquartile Range	0.89000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.97445	Pr > t 	<.0001
Sign	M	45	Pr >= M 	<.0001
Signed Rank	S	2047.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.360
99%	5.360
95%	3.800
90%	2.705
75% Q3	1.560
50% Median	0.920
25% Q1	0.670
10%	0.340
5%	0.280
1%	0.220
0% Min	0.220

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.22	272	3.80	282
0.22	218	3.91	279
0.26	288	4.19	294
0.28	261	4.63	280
0.28	239	5.36	257

Chassahowitzka River - Fixed Station

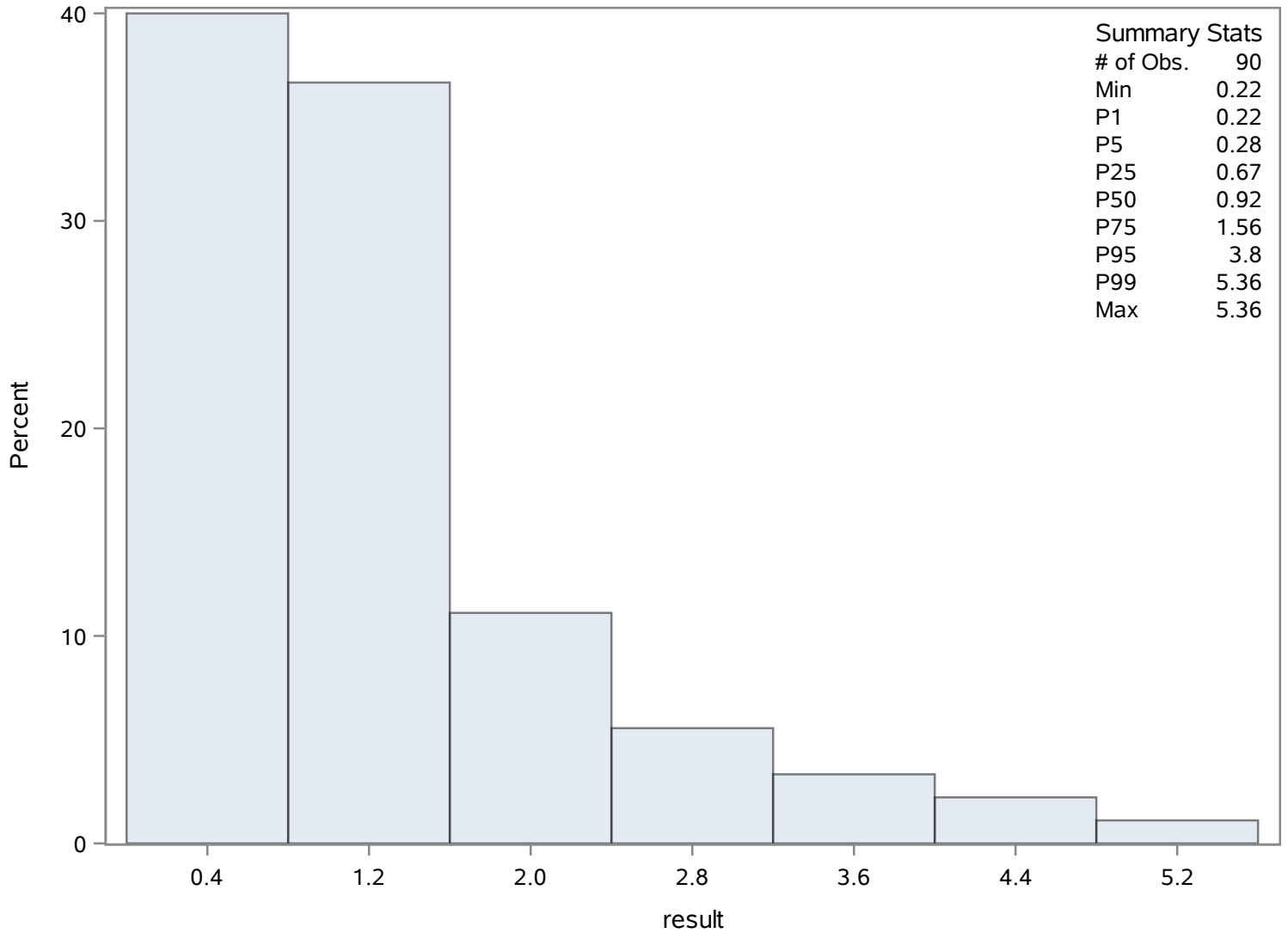
Source: COAST

Chassahowitzka Hernando 8

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	183	Sum Weights	183
Mean	21.5245902	Sum Observations	3939
Std Deviation	10.965891	Variance	120.250766
Skewness	2.41428255	Kurtosis	7.28061313
Uncorrected SS	106671	Corrected SS	21885.6393
Coeff Variation	50.945876	Std Error Mean	0.81062199

Basic Statistical Measures			
Location		Variability	
Mean	21.52459	Std Deviation	10.96589
Median	18.00000	Variance	120.25077
Mode	17.00000	Range	70.00000
		Interquartile Range	9.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.55318	Pr > t 	<.0001
Sign	M	91.5	Pr >= M 	<.0001
Signed Rank	S	8418	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	79
99%	68
95%	42
90%	34
75% Q3	24
50% Median	18
25% Q1	15
10%	13
5%	12
1%	10
0% Min	9

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9	327	58	357
10	472	62	345
10	340	62	448
11	481	68	464
11	471	79	356

Chassahowitzka River - Fixed Station

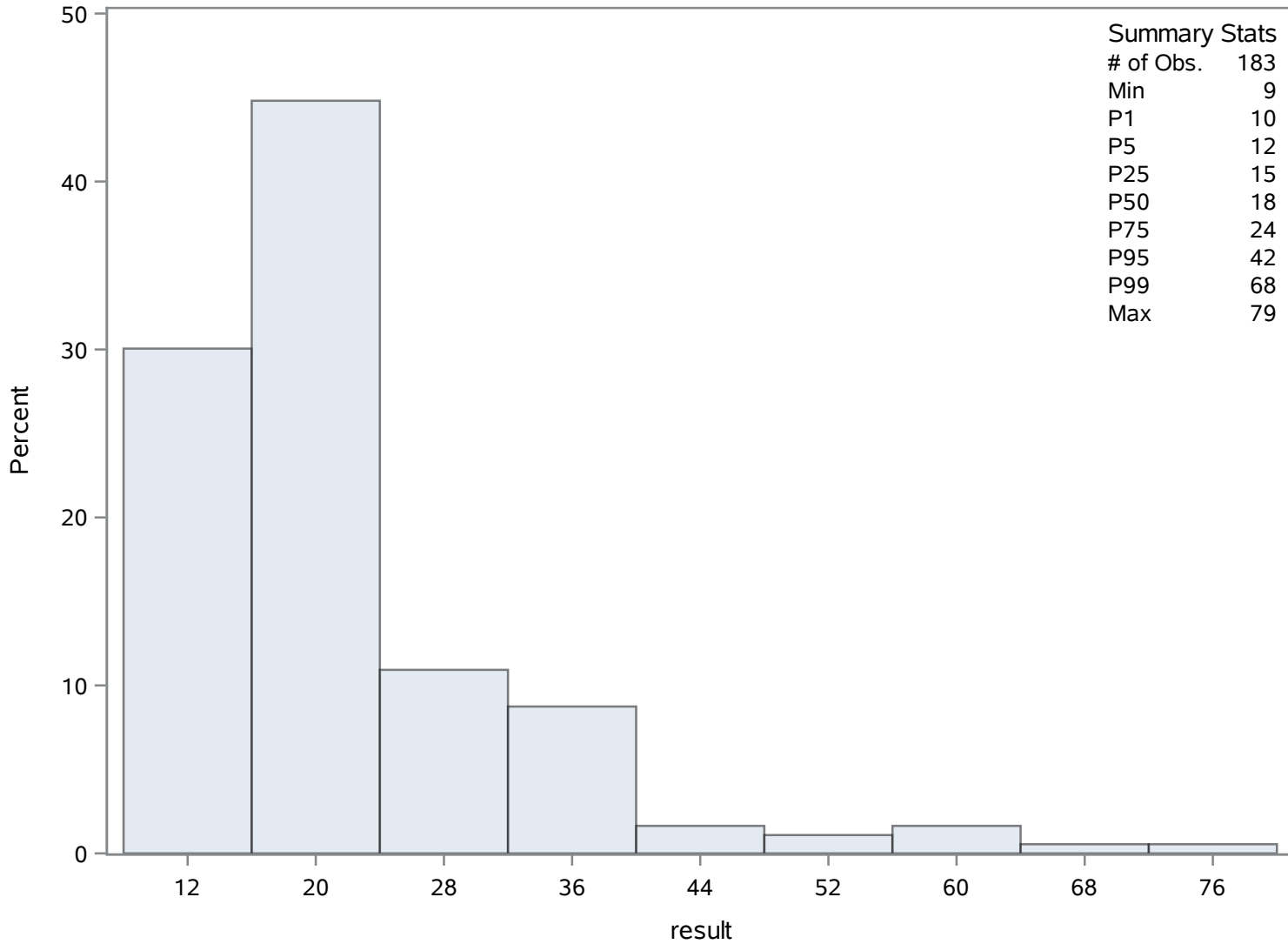
Source: COAST

Chassahowitzka Hernando 8

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	1.26939815	Sum Observations	274.19
Std Deviation	0.39413386	Variance	0.1553415
Skewness	-0.2076545	Kurtosis	-0.4103772
Uncorrected SS	381.4547	Corrected SS	33.3984218
Coeff Variation	31.0488759	Std Error Mean	0.02681741

Basic Statistical Measures			
Location		Variability	
Mean	1.269398	Std Deviation	0.39413
Median	1.300000	Variance	0.15534
Mode	1.400000	Range	1.80000
		Interquartile Range	0.60000

Note: The mode displayed is the smallest of 2 modes with a count of 22.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	47.33485	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.10
99%	2.00
95%	1.90
90%	1.70
75% Q3	1.60
50% Median	1.30
25% Q1	1.00
10%	0.70
5%	0.50

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.42
0% Min	0.30

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	496	2.0	587
0.33	695	2.0	610
0.42	700	2.0	635
0.43	703	2.1	491
0.44	696	2.1	636

Chassahowitzka River - Fixed Station

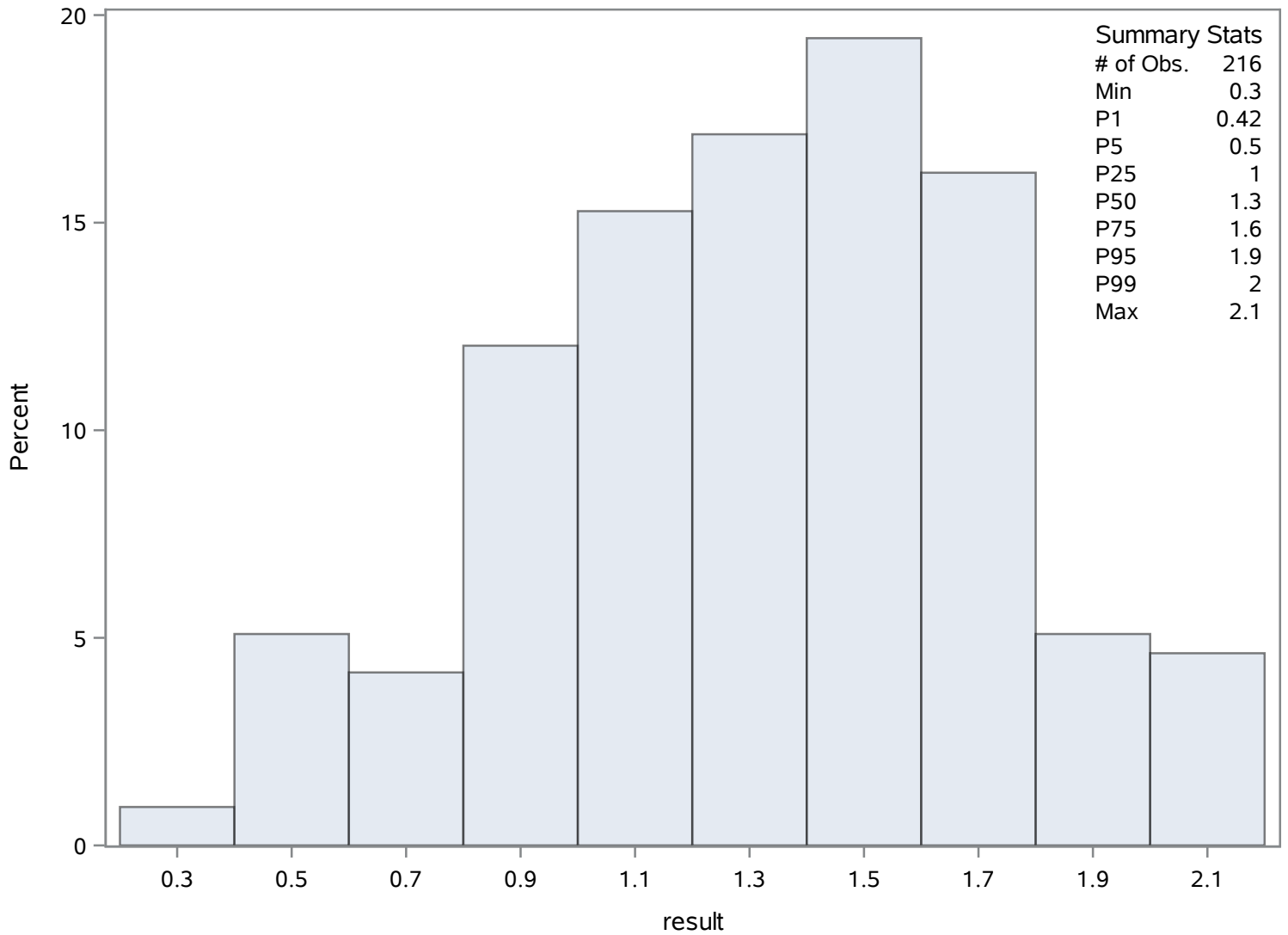
Source: COAST

Chassahowitzka Hernando 8

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	6.93337963	Sum Observations	1497.61
Std Deviation	2.00574597	Variance	4.0230169
Skewness	1.04303263	Kurtosis	4.04033305
Uncorrected SS	11248.4473	Corrected SS	864.948633
Coeff Variation	28.9288352	Std Error Mean	0.13647373

Basic Statistical Measures			
Location		Variability	
Mean	6.933380	Std Deviation	2.00575
Median	6.595000	Variance	4.02302
Mode	6.200000	Range	15.96000
		Interquartile Range	2.91000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	50.80377	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.580
99%	11.030
95%	10.250
90%	9.550
75% Q3	8.305
50% Median	6.595
25% Q1	5.395
10%	4.500
5%	4.010

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.680
0% Min	2.620

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.62	862	10.77	749
3.53	909	10.82	771
3.68	744	11.03	893
3.80	814	11.30	747
3.80	731	18.58	839

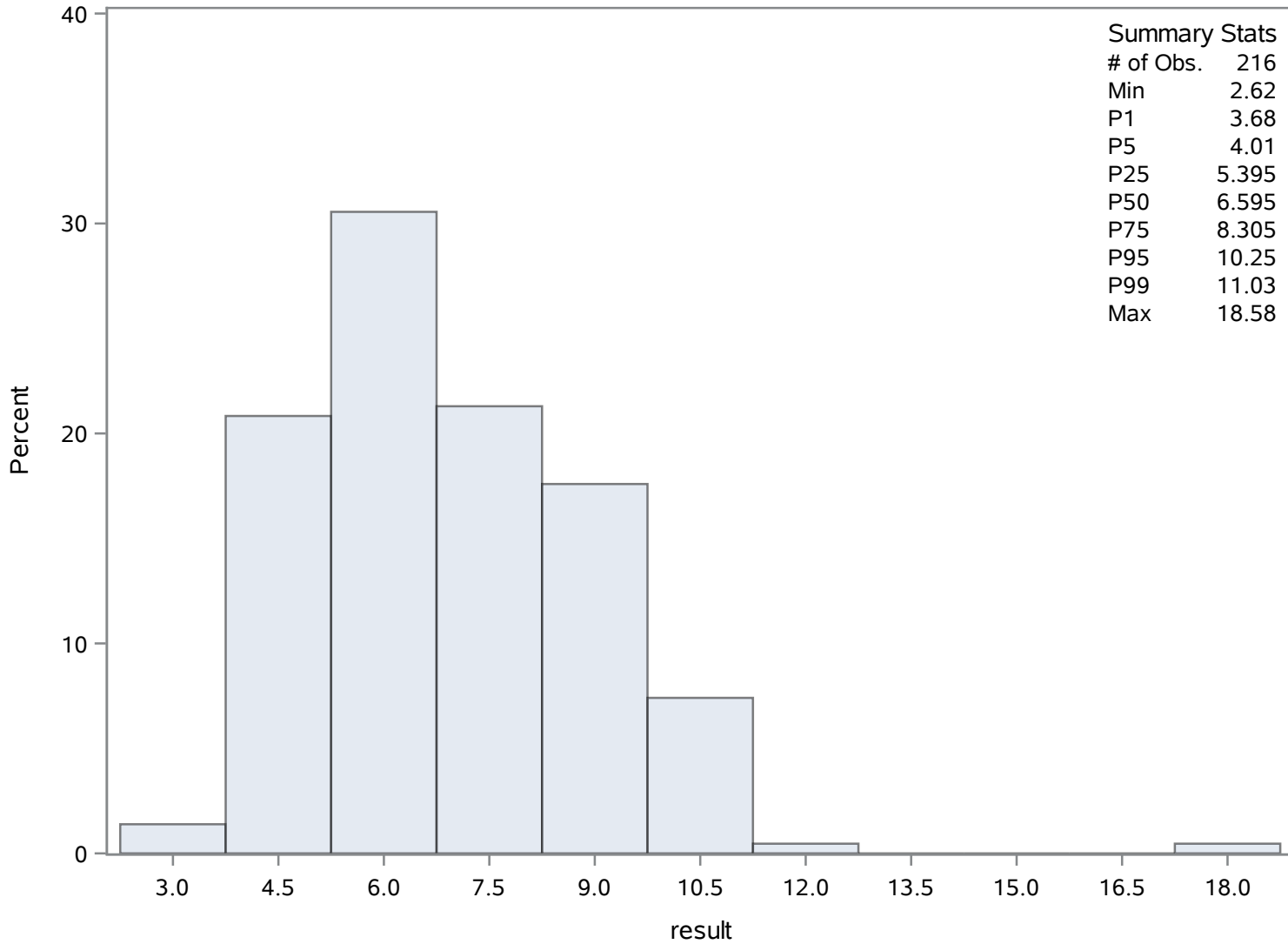
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 8 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	183	Sum Weights	183
Mean	1.29687432	Sum Observations	237.328
Std Deviation	0.82020224	Variance	0.67273171
Skewness	6.89980484	Kurtosis	66.7180485
Uncorrected SS	430.22176	Corrected SS	122.437172
Coeff Variation	63.2445434	Std Error Mean	0.06063109

Basic Statistical Measures			
Location		Variability	
Mean	1.296874	Std Deviation	0.82020
Median	1.161000	Variance	0.67273
Mode	0.767000	Range	9.40000
		Interquartile Range	0.54100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.38959	Pr > t 	<.0001
Sign	M	91.5	Pr >= M 	<.0001
Signed Rank	S	8418	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.866
99%	4.496
95%	2.128
90%	1.819
75% Q3	1.441
50% Median	1.161
25% Q1	0.900
10%	0.767
5%	0.689
1%	0.515
0% Min	0.466

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Light, Attenuation Coefficient Kd/m

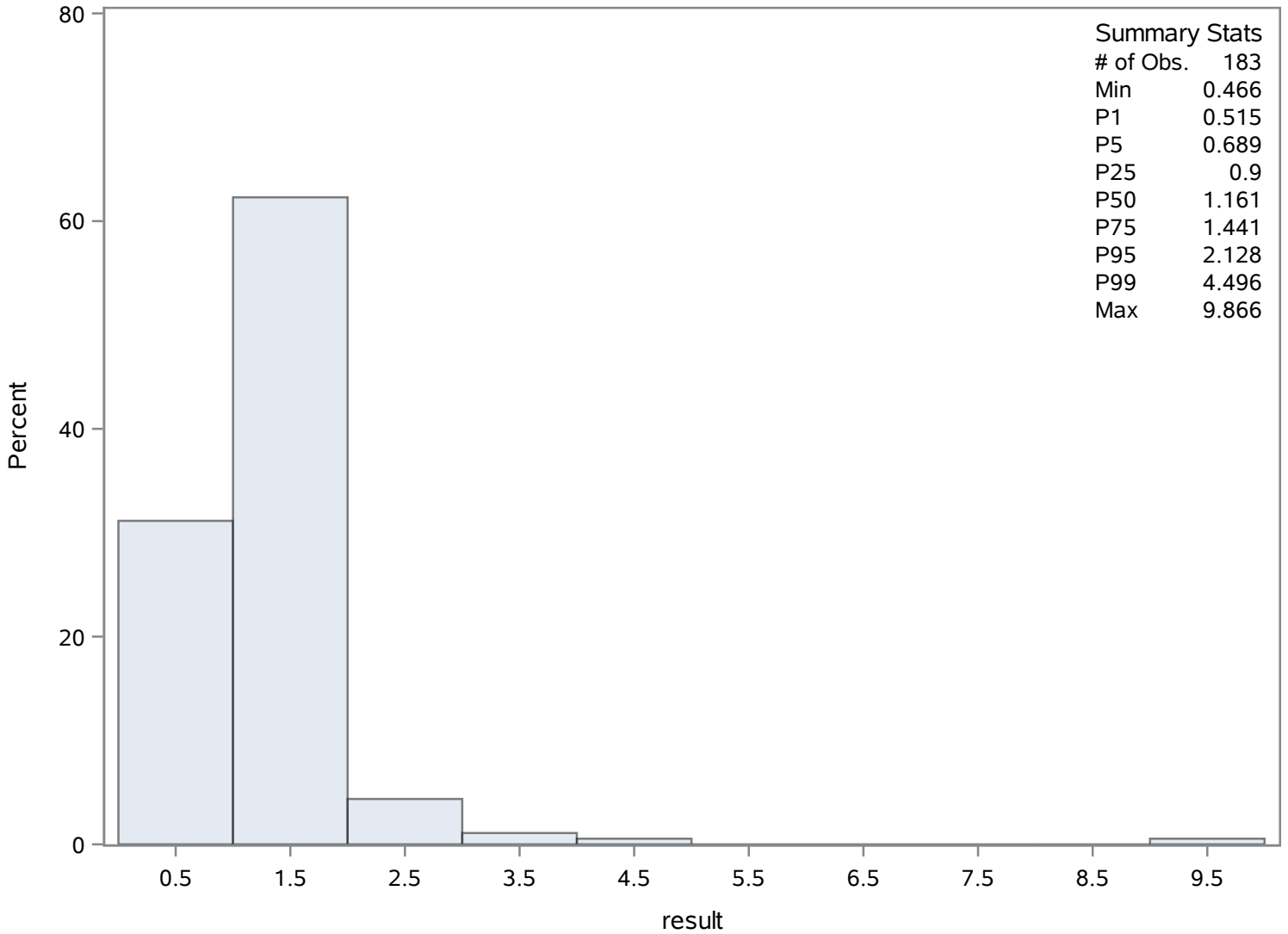
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.466	1040	2.554	1022
0.515	1101	3.494	1035
0.528	1003	3.578	970
0.549	1087	4.496	1023
0.661	955	9.866	954

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.41444444	Sum Observations	3.73
Std Deviation	0.09761034	Variance	0.00952778
Skewness	0.0416321	Kurtosis	-0.7963475
Uncorrected SS	1.6221	Corrected SS	0.07622222
Coeff Variation	23.5520919	Std Error Mean	0.03253678

Basic Statistical Measures			
Location		Variability	
Mean	0.414444	Std Deviation	0.09761
Median	0.380000	Variance	0.00953
Mode	0.380000	Range	0.30000
		Interquartile Range	0.12000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.73772	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.56
99%	0.56
95%	0.56
90%	0.56
75% Q3	0.50
50% Median	0.38
25% Q1	0.38
10%	0.26
5%	0.26
1%	0.26
0% Min	0.26

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.26	1107	0.38	1112
0.32	1111	0.43	1110
0.38	1112	0.50	1104
0.38	1108	0.52	1109
0.38	1106	0.56	1105

Chassahowitzka River - Fixed Station

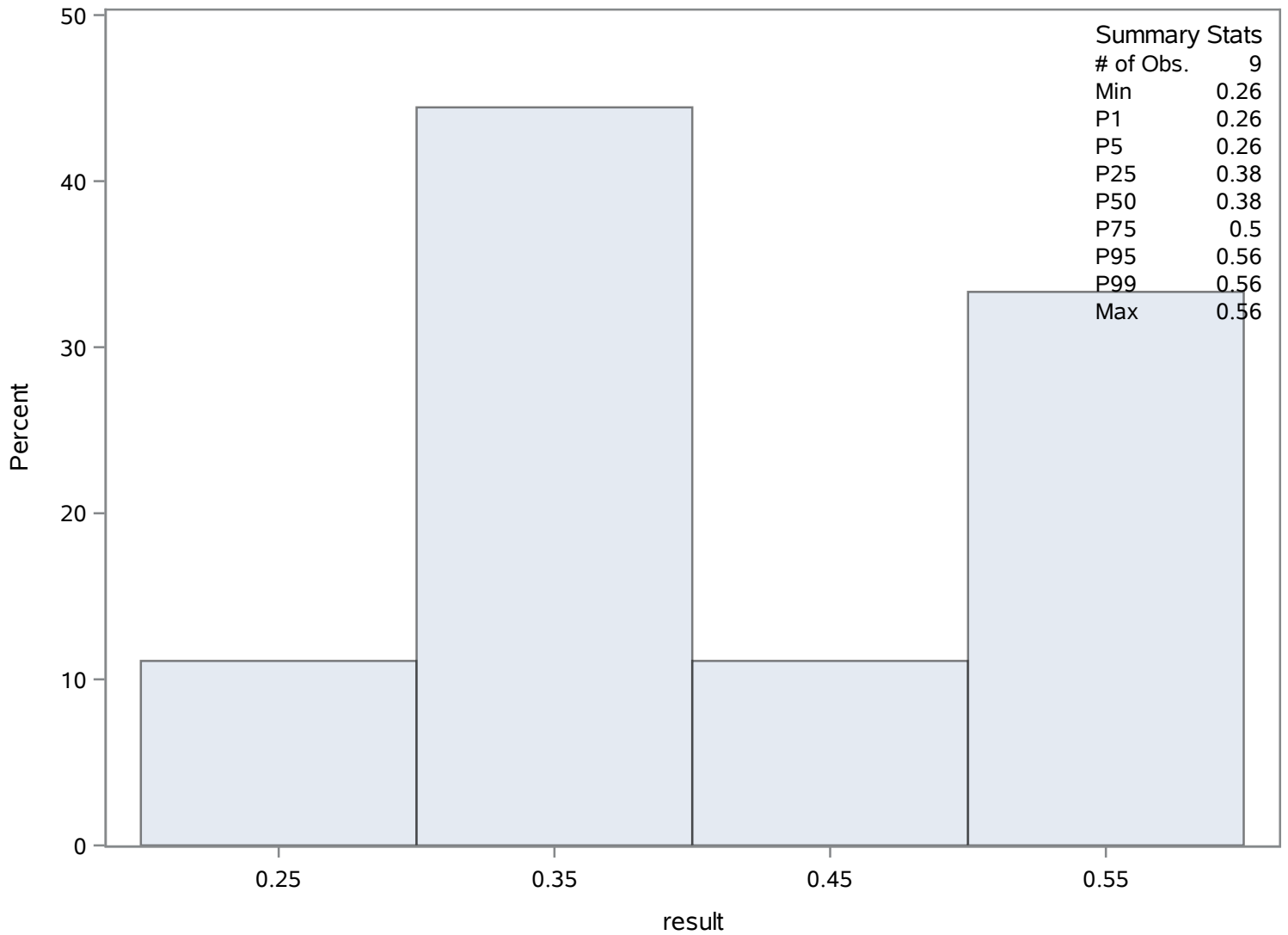
Source: COAST

Chassahowitzka Hernando 8

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	437.135922	Sum Observations	90050
Std Deviation	206.421428	Variance	42609.8058
Skewness	1.94217704	Kurtosis	6.64089213
Uncorrected SS	48099100	Corrected SS	8735010.19
Coeff Variation	47.2213372	Std Error Mean	14.3820624

Basic Statistical Measures			
Location		Variability	
Mean	437.1359	Std Deviation	206.42143
Median	400.0000	Variance	42610
Mode	310.0000	Range	1430
		Interquartile Range	260.00000

Note: The mode displayed is the smallest of 3 modes with a count of 9.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	30.39452	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1530
99%	1310
95%	730
90%	650
75% Q3	550
50% Median	400
25% Q1	290
10%	240
5%	200

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	140
0% Min	100

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
100	1240	990	1127
130	1180	1270	1126
140	1268	1310	1128
160	1119	1320	1129
170	1253	1530	1125

Chassahowitzka River - Fixed Station

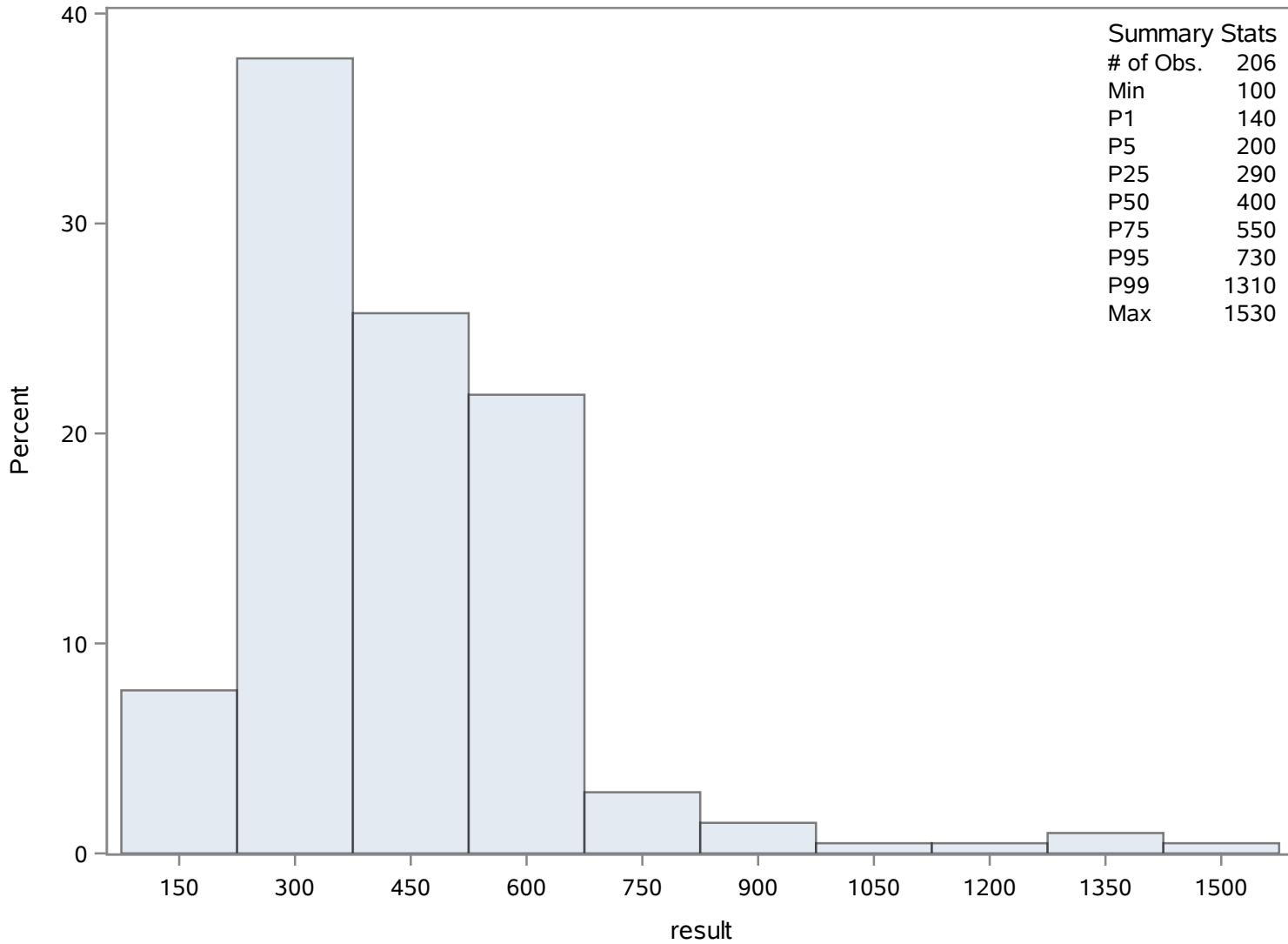
Source: COAST

Chassahowitzka Hernando 8

Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.008	Sum Observations	0.072
Std Deviation	0.00212132	Variance	4.5E-6
Skewness	0	Kurtosis	-1.5555556
Uncorrected SS	0.000612	Corrected SS	0.000036
Coeff Variation	26.5165043	Std Error Mean	0.00070711

Basic Statistical Measures			
Location		Variability	
Mean	0.008000	Std Deviation	0.00212
Median	0.008000	Variance	4.5E-6
Mode	0.006000	Range	0.00600
		Interquartile Range	0.00400

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.31371	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.011
99%	0.011
95%	0.011
90%	0.011
75% Q3	0.010
50% Median	0.008
25% Q1	0.006
10%	0.005
5%	0.005

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.005
0% Min	0.005

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	1320	0.008	1322
0.006	1327	0.009	1325
0.006	1324	0.010	1319
0.007	1326	0.010	1323
0.008	1322	0.011	1321

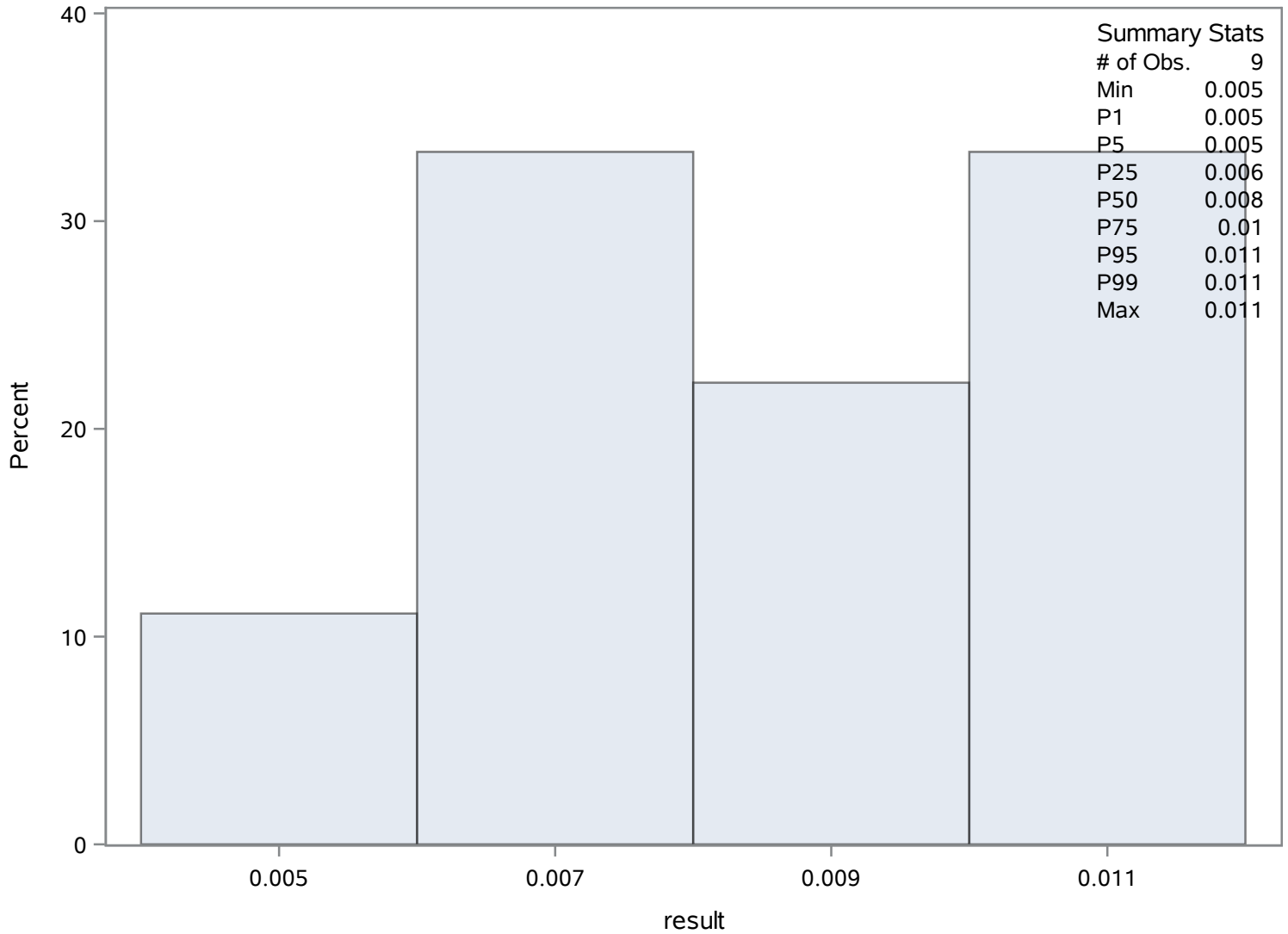
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 8 Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	9.8592233	Sum Observations	2031
Std Deviation	5.30849181	Variance	28.1800852
Skewness	3.01588427	Kurtosis	13.3777372
Uncorrected SS	25801	Corrected SS	5776.91748
Coeff Variation	53.8429006	Std Error Mean	0.36986015

Basic Statistical Measures			
Location		Variability	
Mean	9.859223	Std Deviation	5.30849
Median	9.000000	Variance	28.18009
Mode	8.000000	Range	40.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.65662	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	43
99%	31
95%	17
90%	15
75% Q3	11
50% Median	9
25% Q1	7
10%	5
5%	5
1%	4
0% Min	3

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	1529	29	1343
3	1493	31	1339
4	1505	31	1344
4	1504	39	1341
4	1497	43	1340

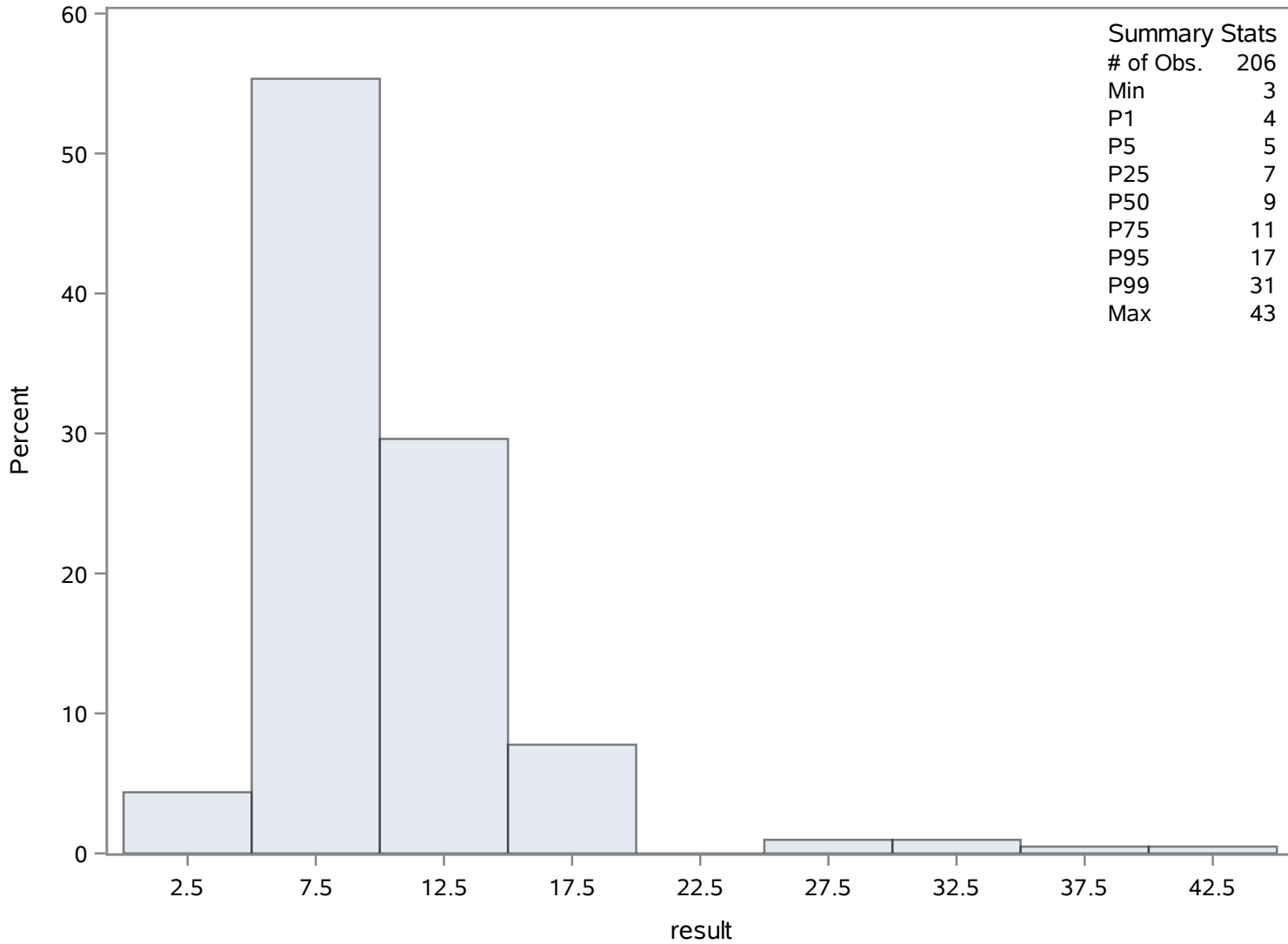
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 8 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	18.4404147	Sum Observations	4001.57
Std Deviation	4.79942534	Variance	23.0344836
Skewness	-0.1269859	Kurtosis	-0.2566294
Uncorrected SS	78766.0589	Corrected SS	4975.44846
Coeff Variation	26.026667	Std Error Mean	0.32580622

Basic Statistical Measures			
Location		Variability	
Mean	18.44041	Std Deviation	4.79943
Median	18.92000	Variance	23.03448
Mode	22.10000	Range	24.46000
		Interquartile Range	6.71000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	56.59933	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.10
99%	28.88
95%	26.20
90%	24.43
75% Q3	21.67
50% Median	18.92
25% Q1	14.96
10%	12.40
5%	9.96
1%	8.00
0% Min	6.64

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Salinity (Total) ppt

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.64	1631	27.53	1583
6.69	1607	28.00	1537
8.00	1543	28.88	1594
8.00	1541	29.99	1595
8.15	1745	31.10	1571

Chassahowitzka River - Fixed Station

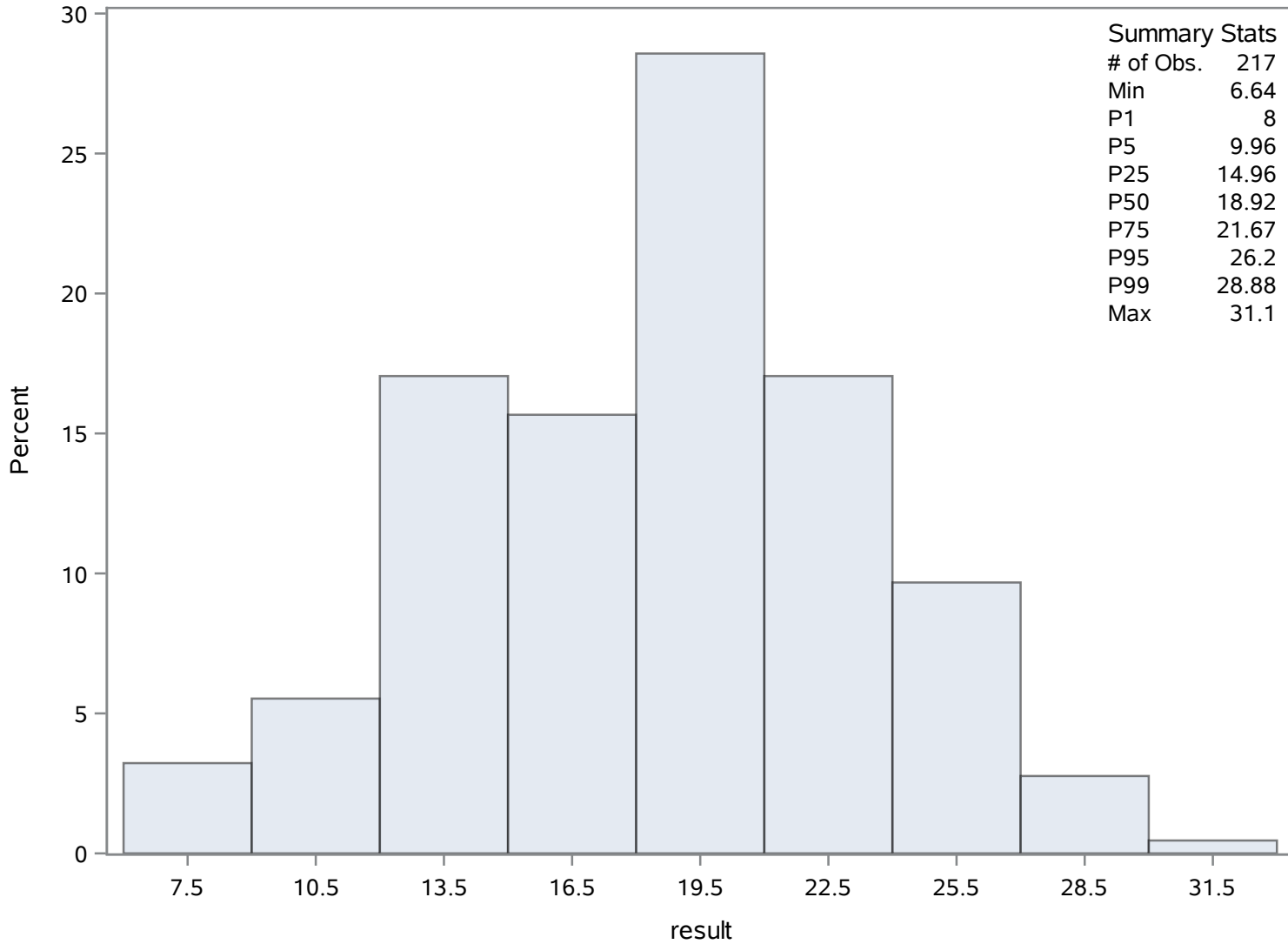
Source: COAST

Chassahowitzka Hernando 8

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	23.5283796	Sum Observations	5082.13
Std Deviation	5.77260996	Variance	33.3230257
Skewness	-0.5308413	Kurtosis	-0.5898352
Uncorrected SS	126738.735	Corrected SS	7164.45053
Coeff Variation	24.5346686	Std Error Mean	0.39277636

Basic Statistical Measures			
Location		Variability	
Mean	23.52838	Std Deviation	5.77261
Median	24.58000	Variance	33.32303
Mode	16.70000	Range	24.68000
		Interquartile Range	9.25500

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	59.90274	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.760
99%	32.330
95%	31.000
90%	30.370
75% Q3	28.600
50% Median	24.580
25% Q1	19.345
10%	15.500
5%	12.900

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	9.580
0% Min	8.080

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.08	1913	31.62	1932
9.00	1793	32.17	1956
9.58	1912	32.33	1847
10.04	1794	32.42	1906
10.18	1866	32.76	1812

Chassahowitzka River - Fixed Station

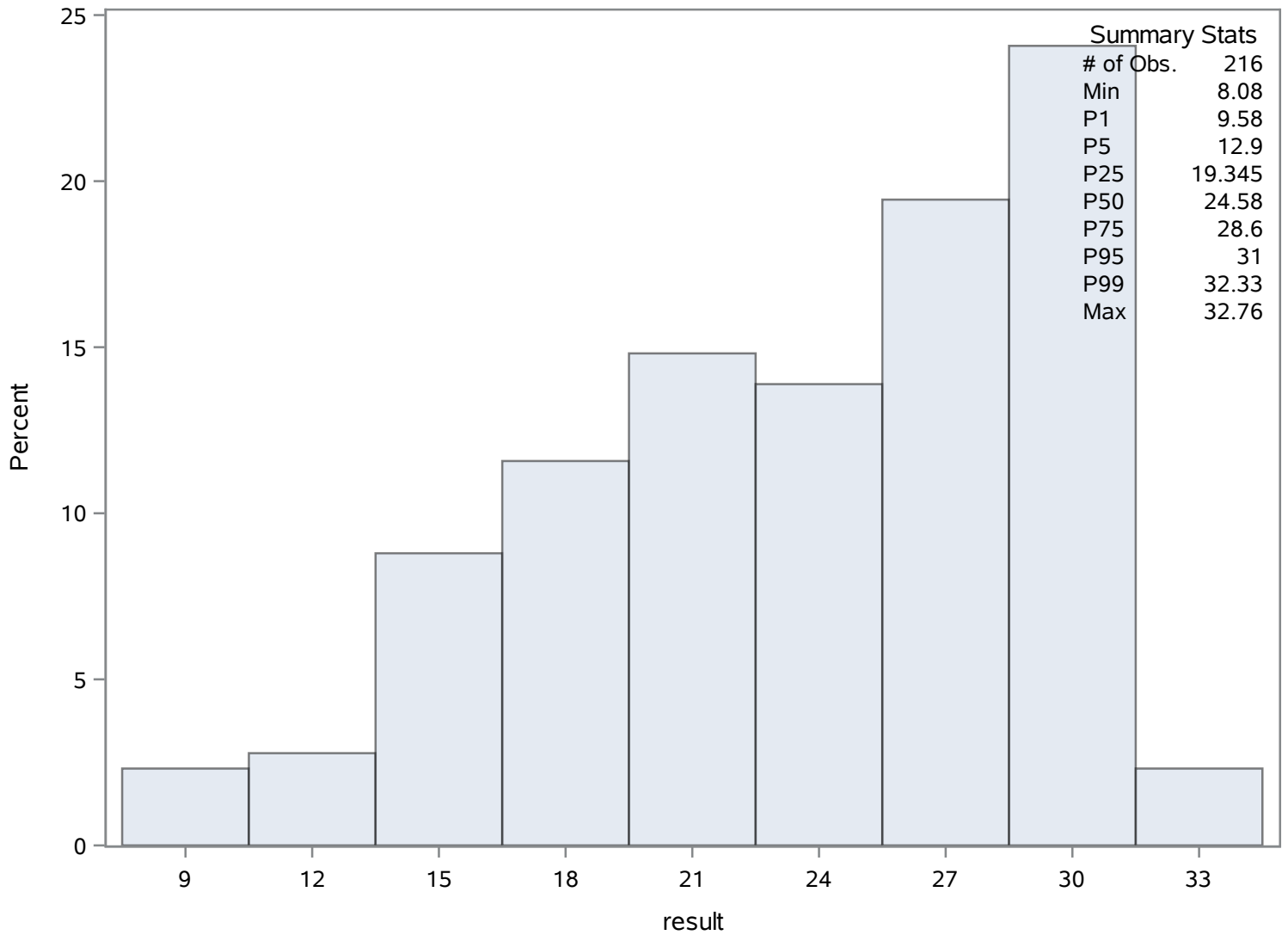
Source: COAST

Chassahowitzka Hernando 8

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	154	Sum Weights	154
Mean	7.96863636	Sum Observations	1227.17
Std Deviation	0.34128758	Variance	0.11647721
Skewness	-2.5211921	Kurtosis	16.1072125
Uncorrected SS	9796.6925	Corrected SS	17.8210136
Coeff Variation	4.28288563	Std Error Mean	0.02750174

Basic Statistical Measures			
Location		Variability	
Mean	7.968636	Std Deviation	0.34129
Median	7.985000	Variance	0.11648
Mode	7.910000	Range	3.30000
		Interquartile Range	0.34000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	289.7503	Pr > t 	<.0001
Sign	M	77	Pr >= M 	<.0001
Signed Rank	S	5967.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.860
99%	8.610
95%	8.430
90%	8.270
75% Q3	8.170
50% Median	7.985
25% Q1	7.830
10%	7.640
5%	7.520
1%	6.850
0% Min	5.560

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.56	2039	8.53	1970
6.85	2038	8.55	1971
7.07	2048	8.59	2066
7.21	2072	8.61	2029
7.41	2084	8.86	1967

Chassahowitzka River - Fixed Station

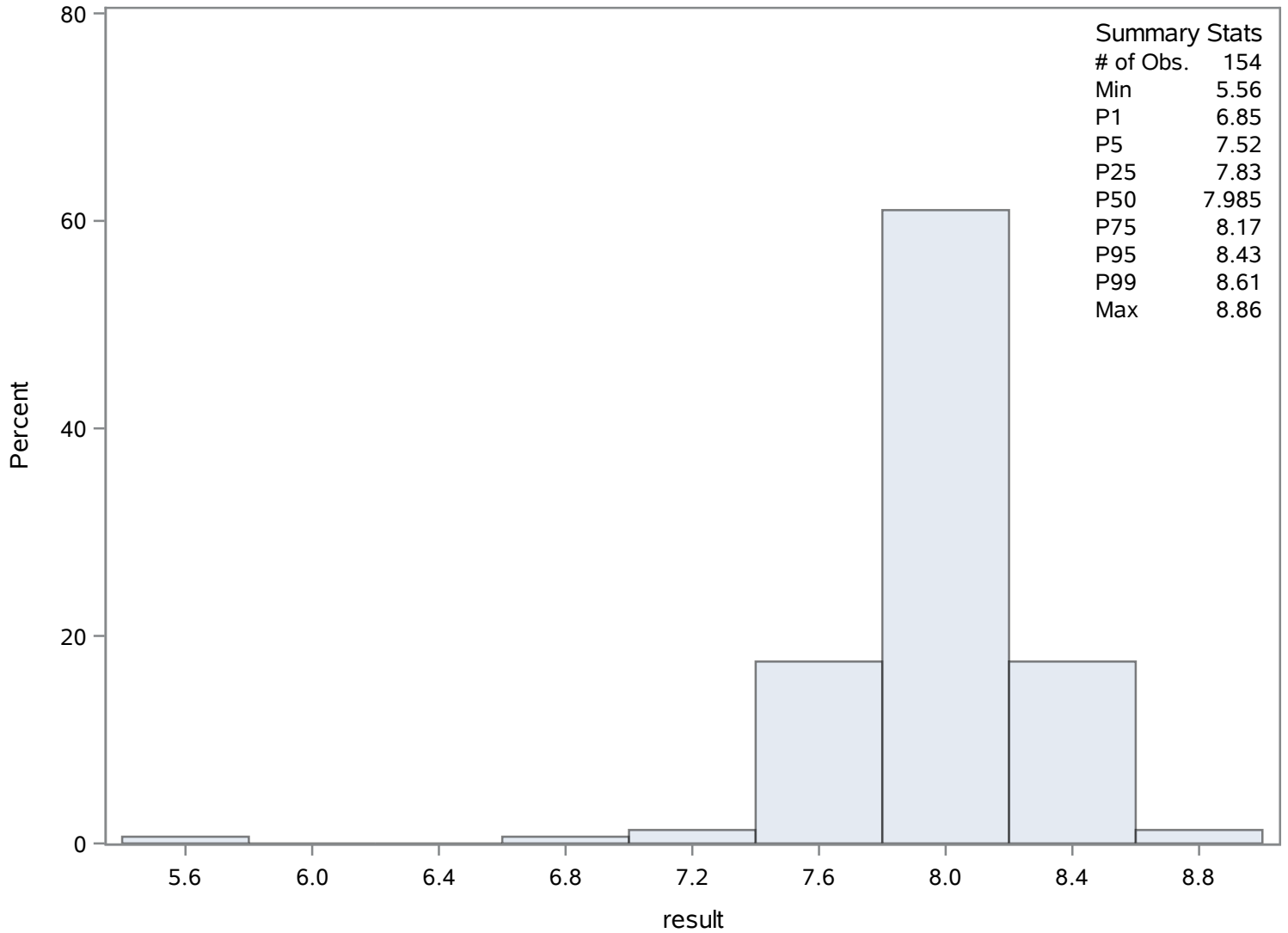
Source: COAST

Chassahowitzka Hernando 8

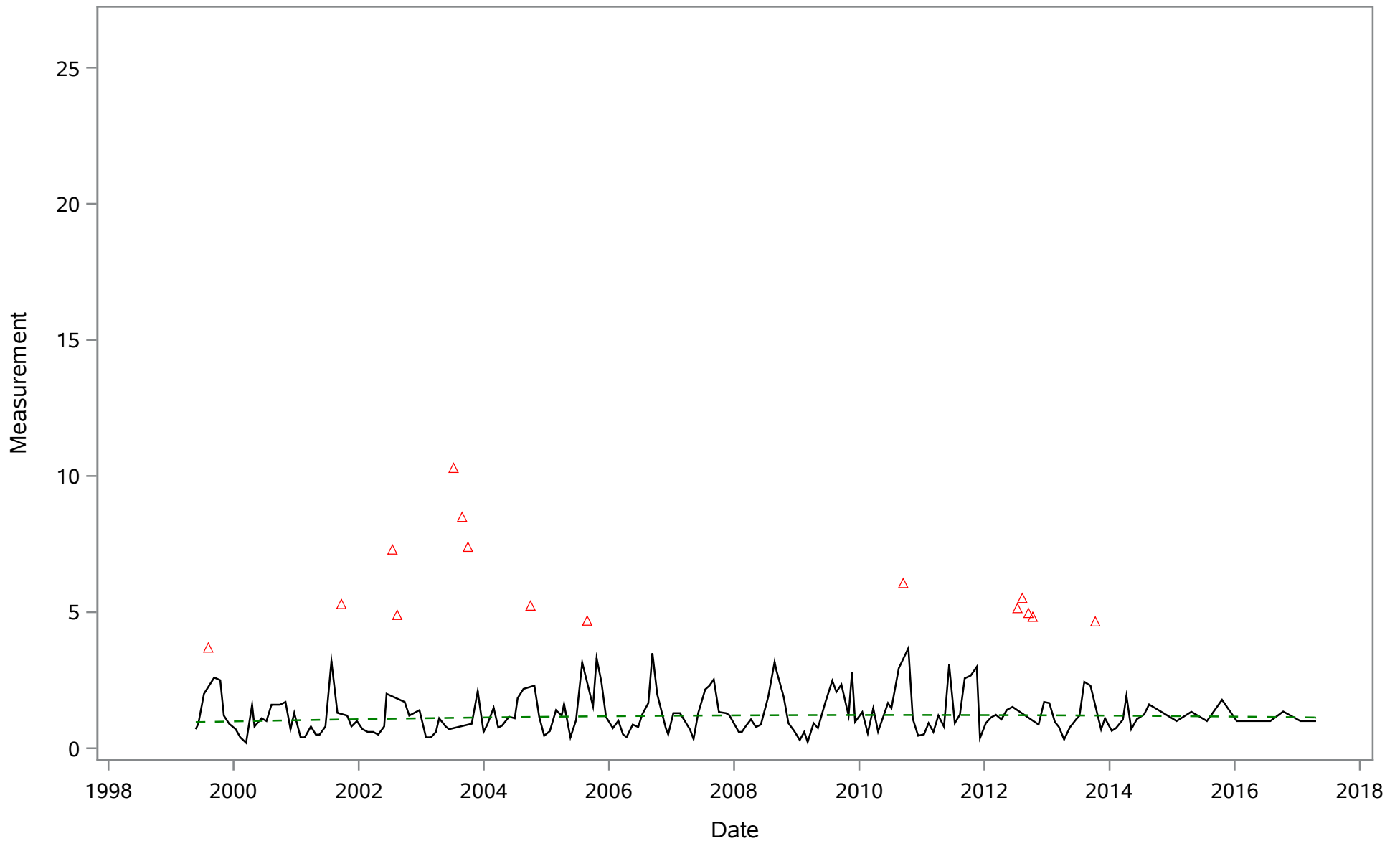
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

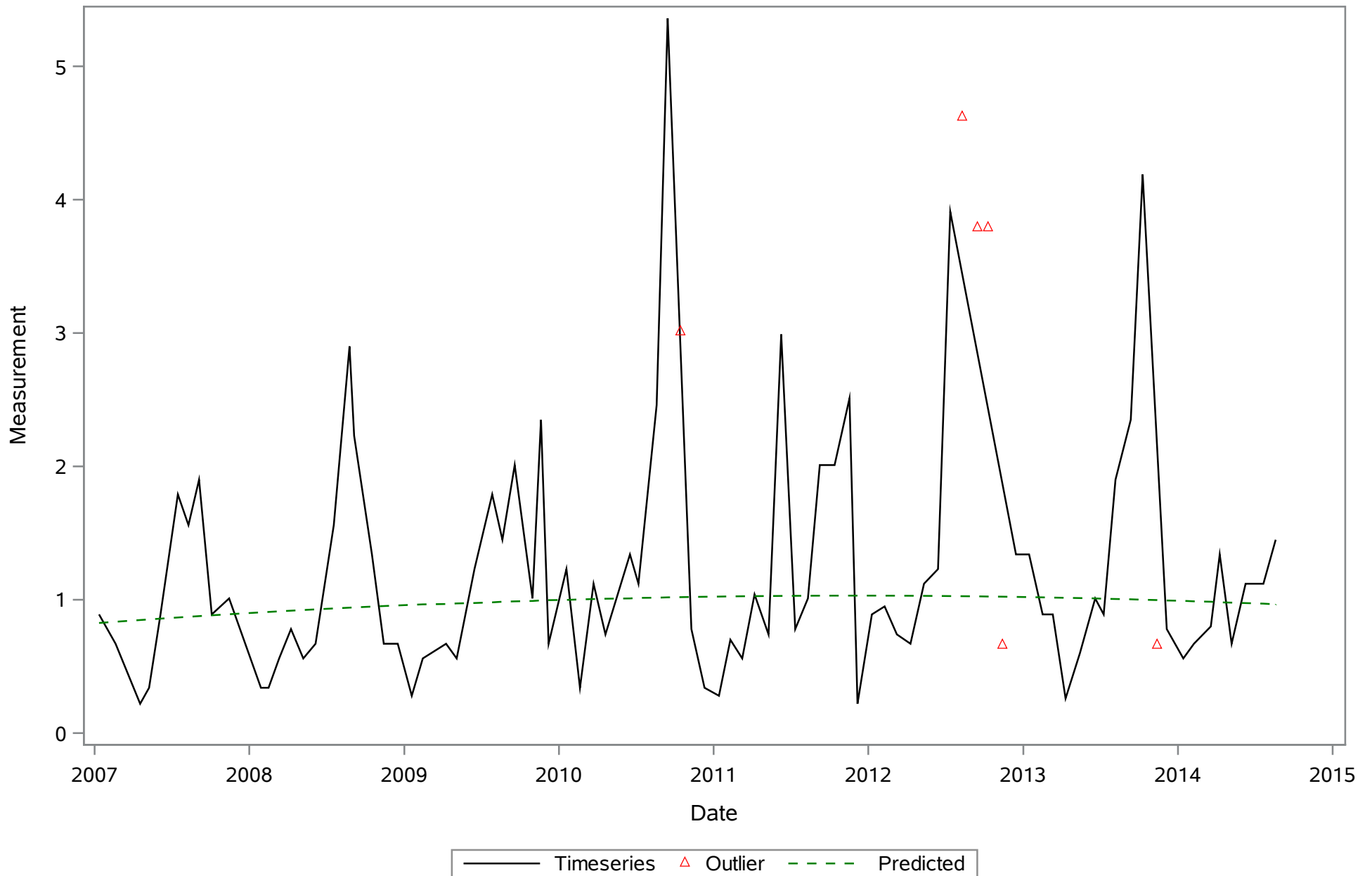


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll (Total) ug/L

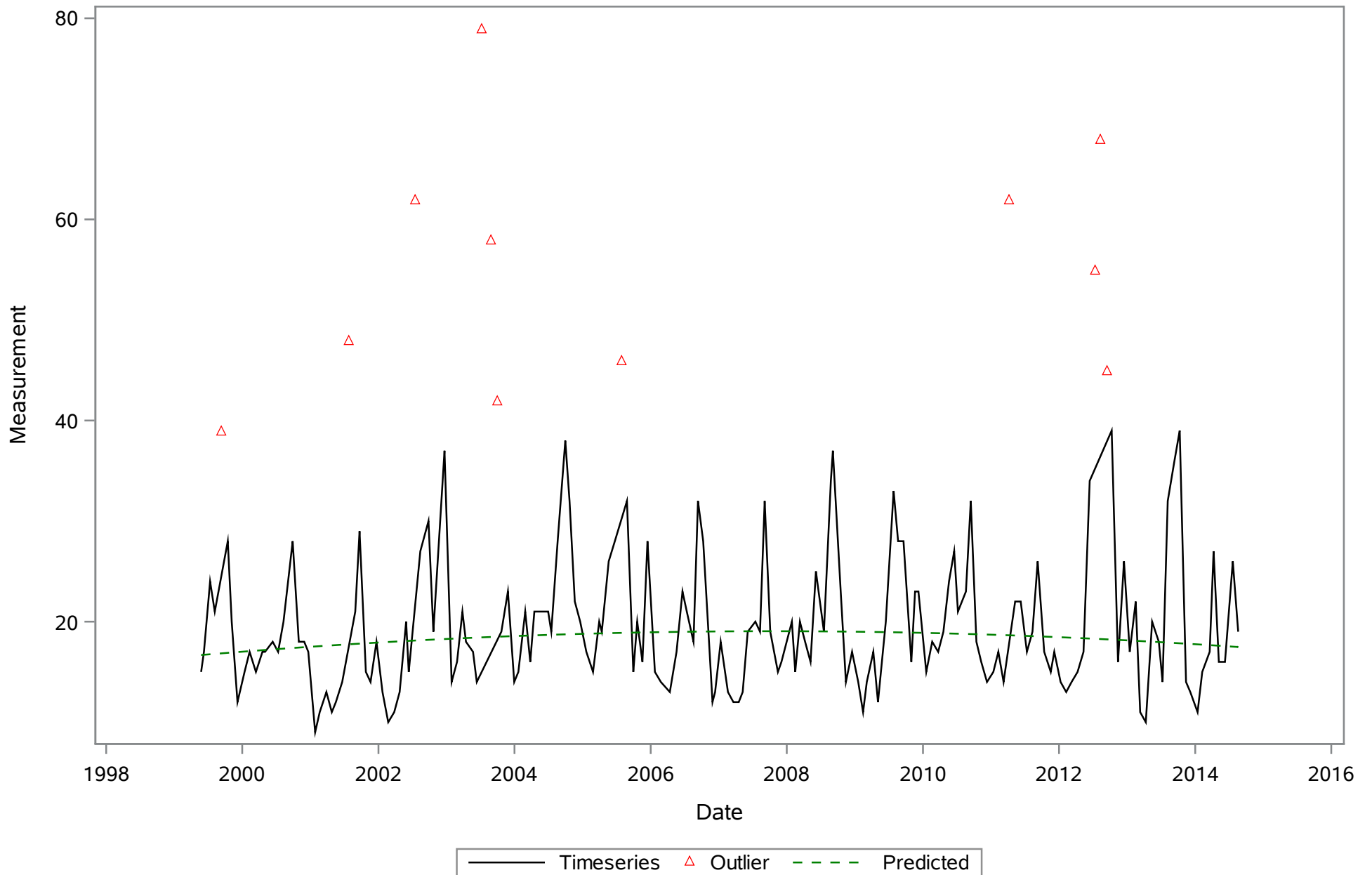


— Timeseries △ Outlier - - - Predicted

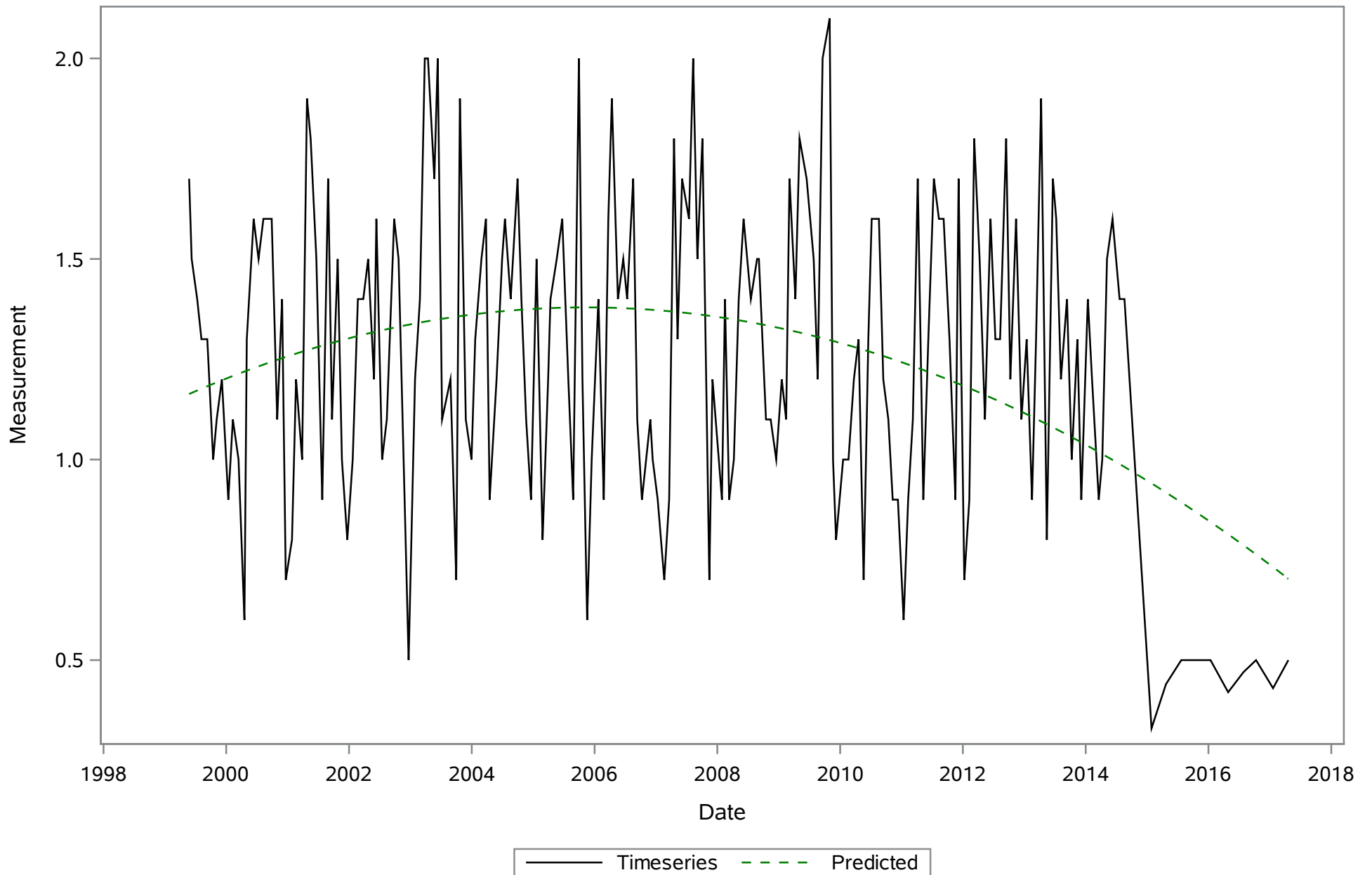
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll a (Total) ug/L



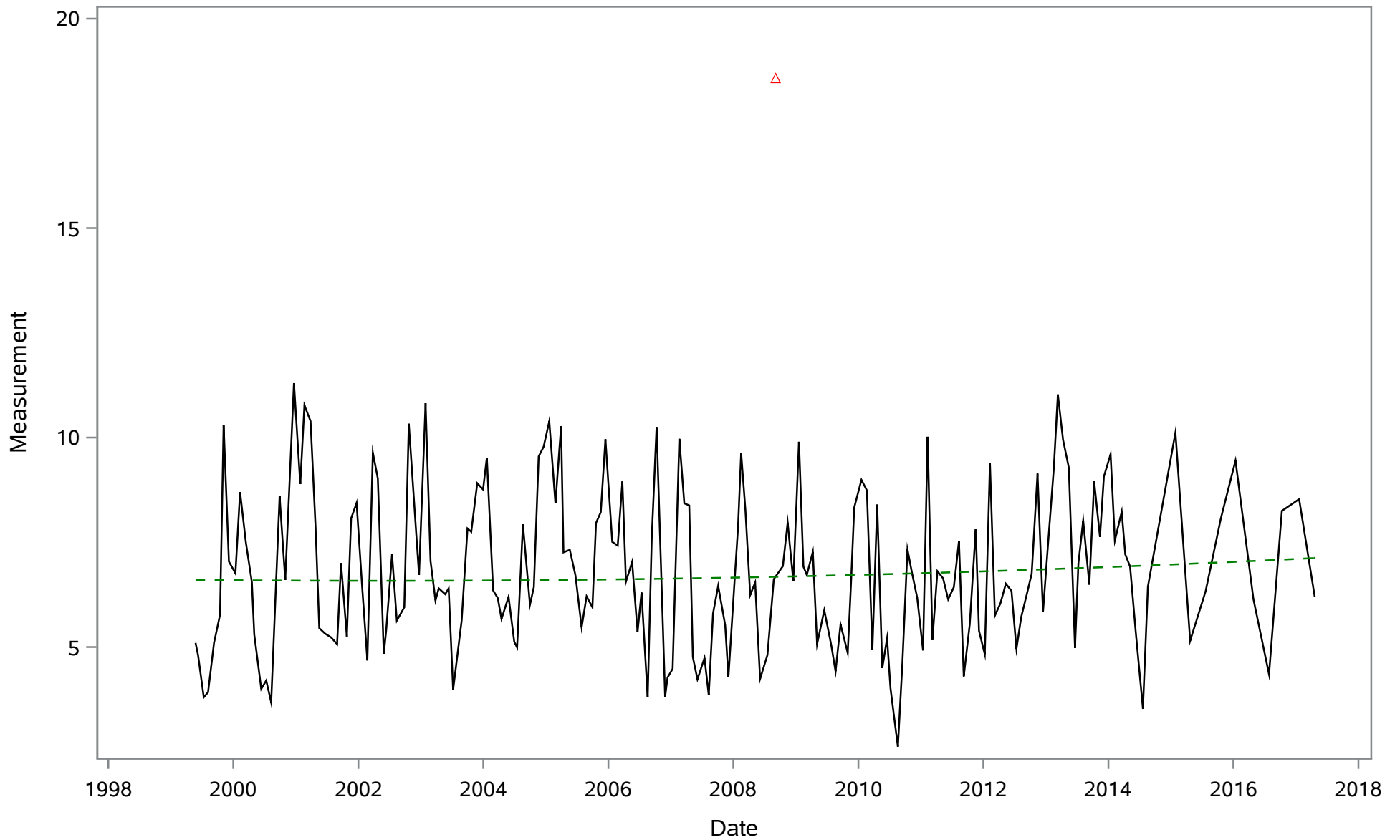
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Color (Total) PCU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Depth (Total) Meters

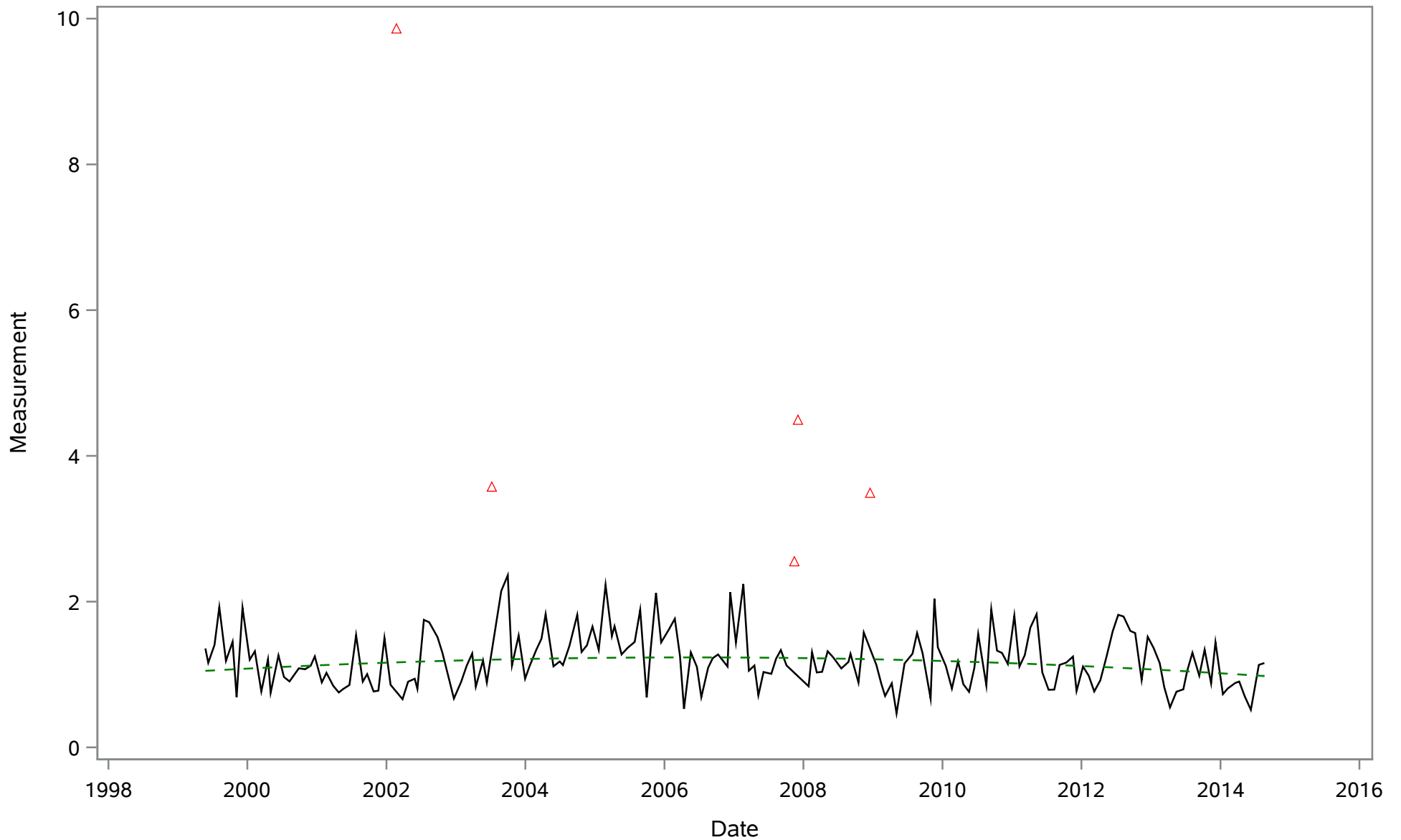


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Dissolved Oxygen (Total) mg/L



— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Light, Attenuation Coefficient Kd/m



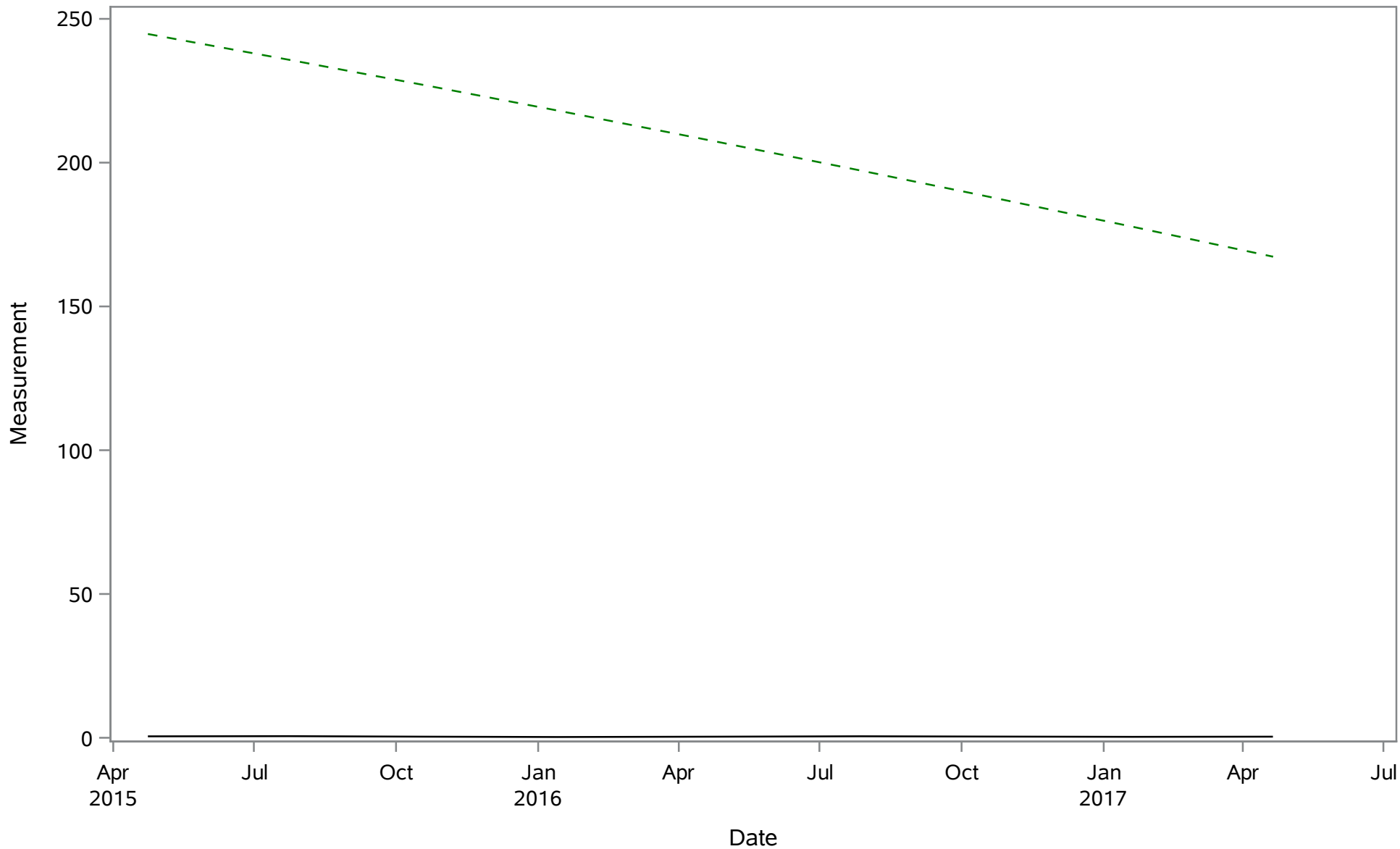
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station

Source: COAST

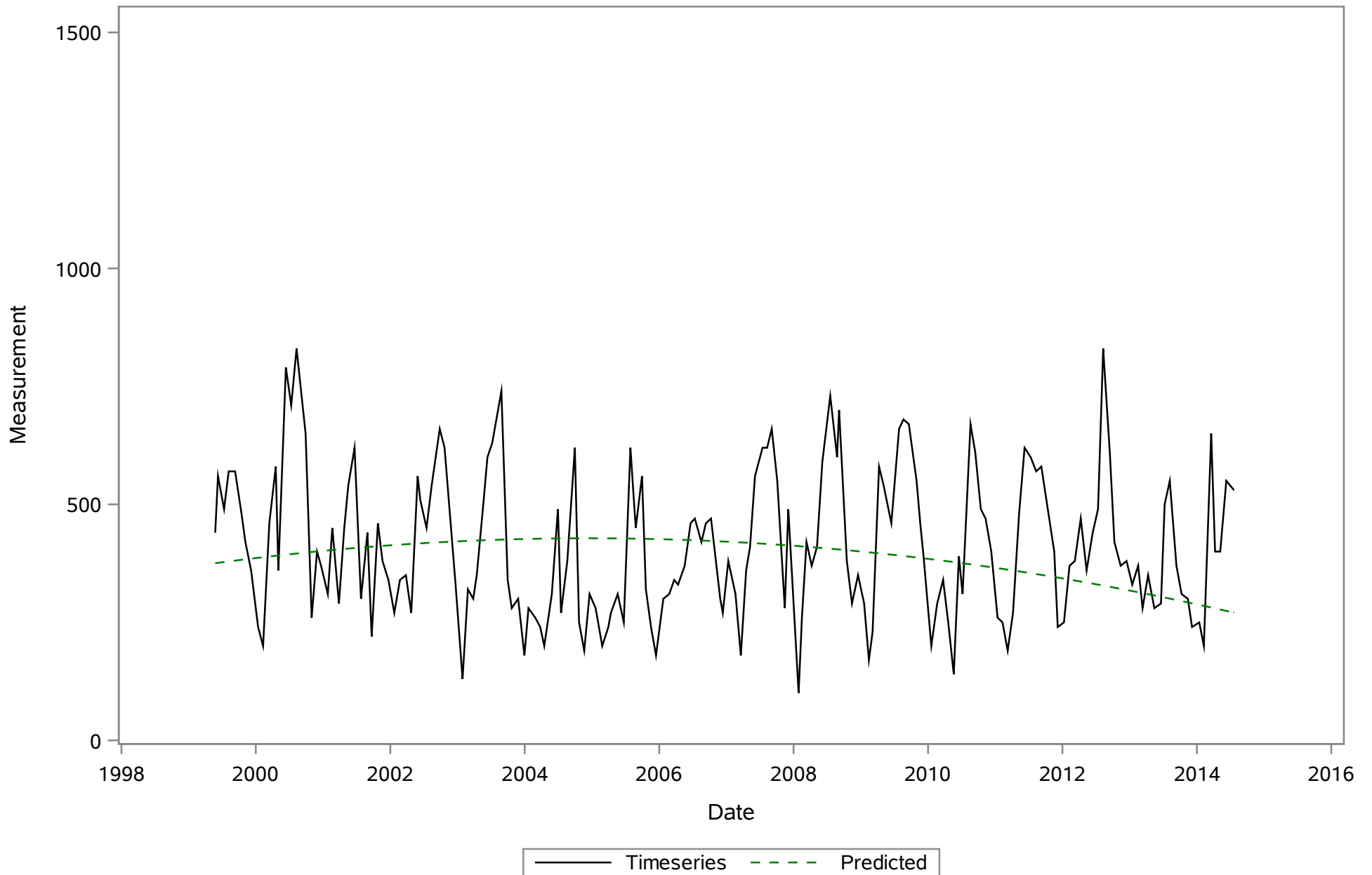
Chassahowitzka Hernando 8

Nitrogen- Total (Total) mg/L

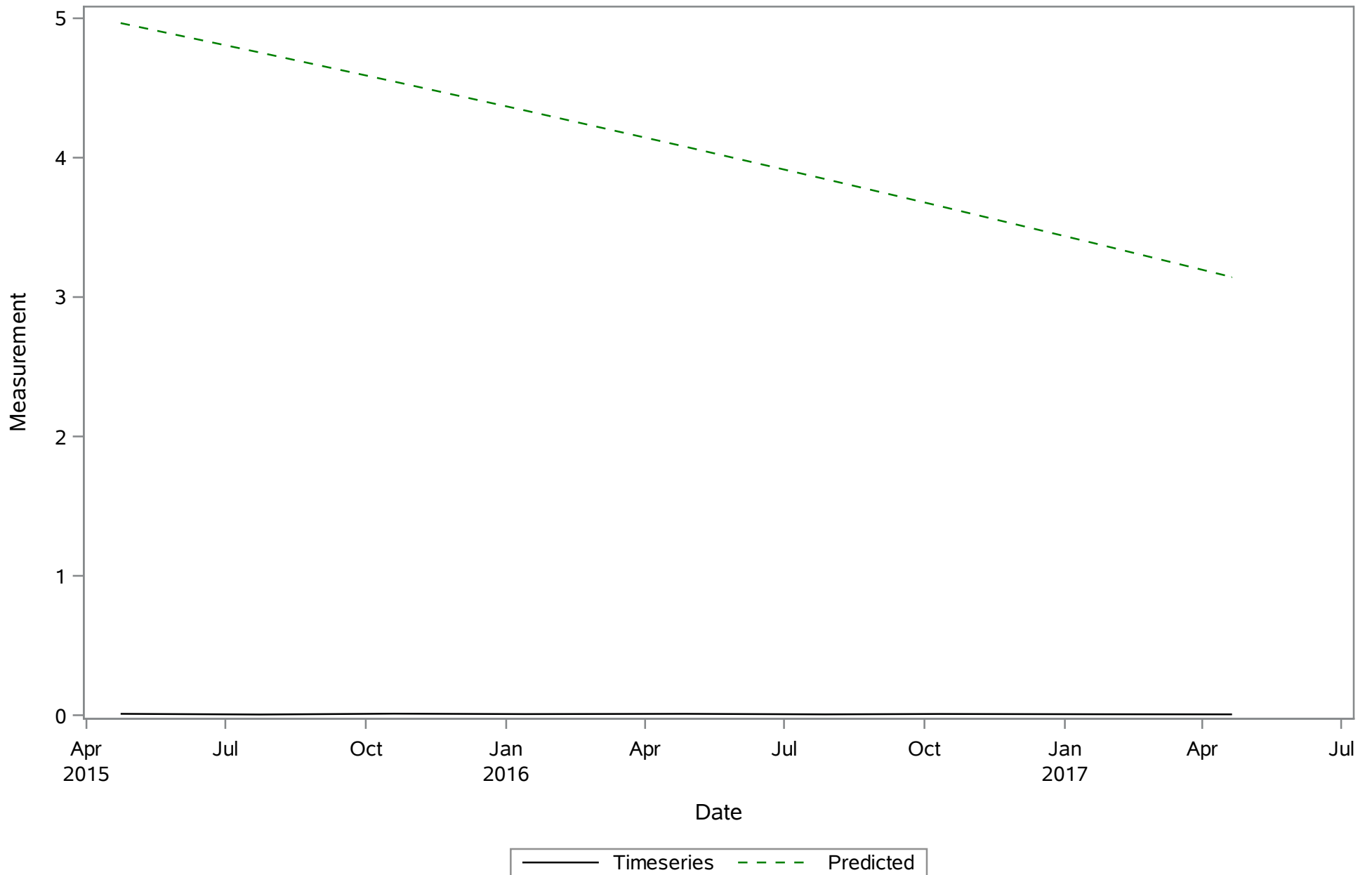


— Timeseries - - - Predicted

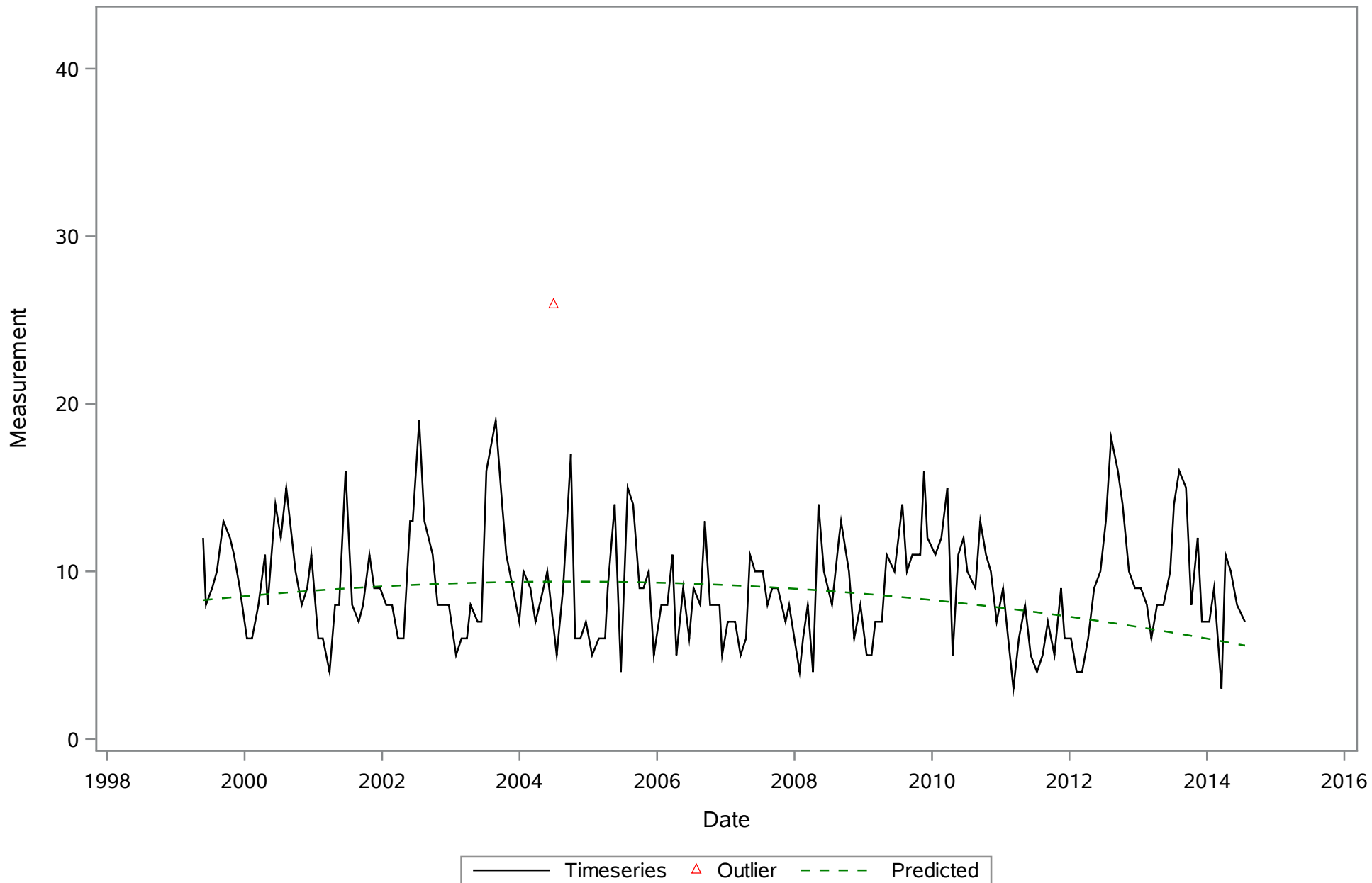
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Nitrogen- Total (Total) ug/L



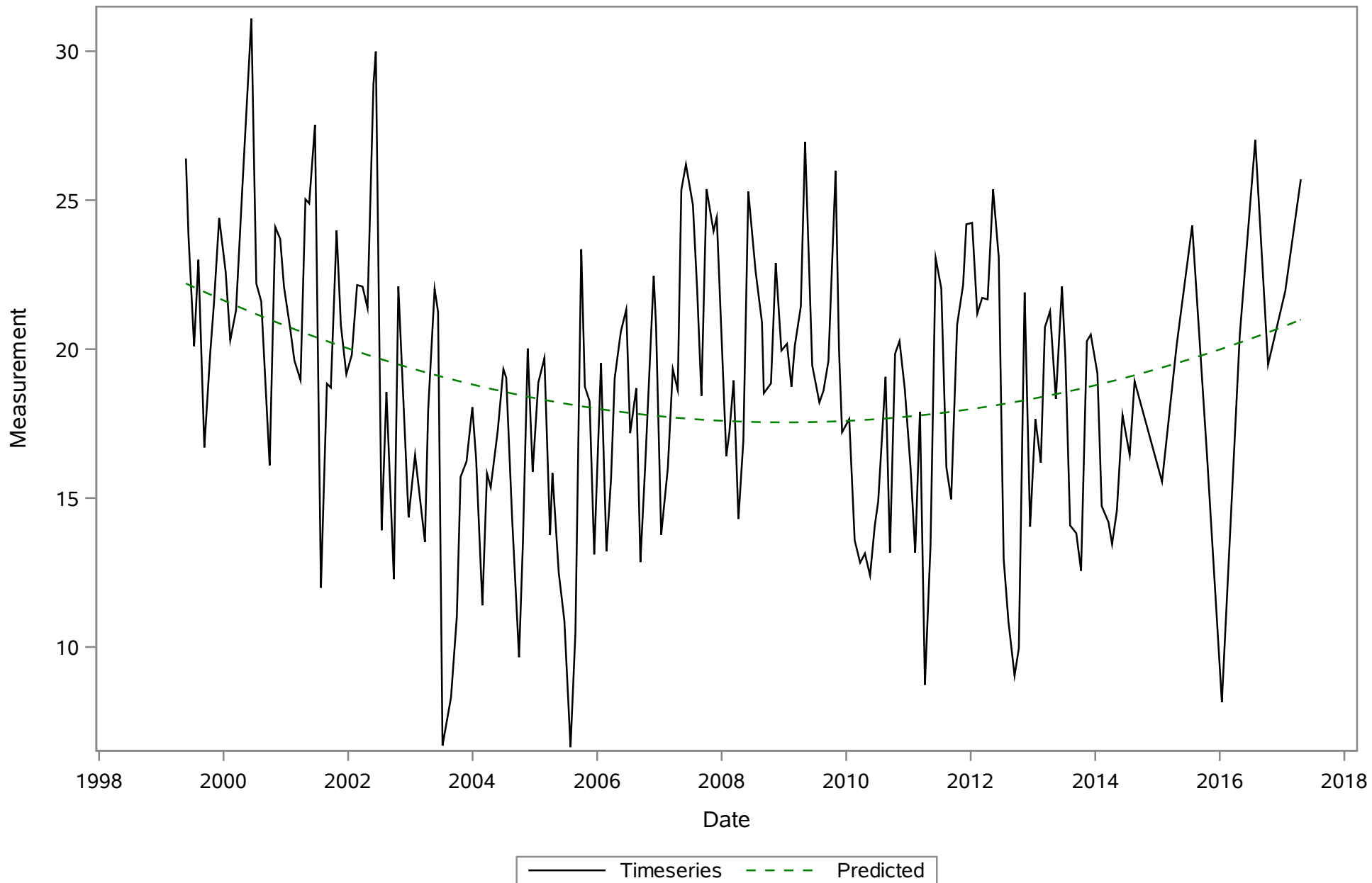
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) mg/L



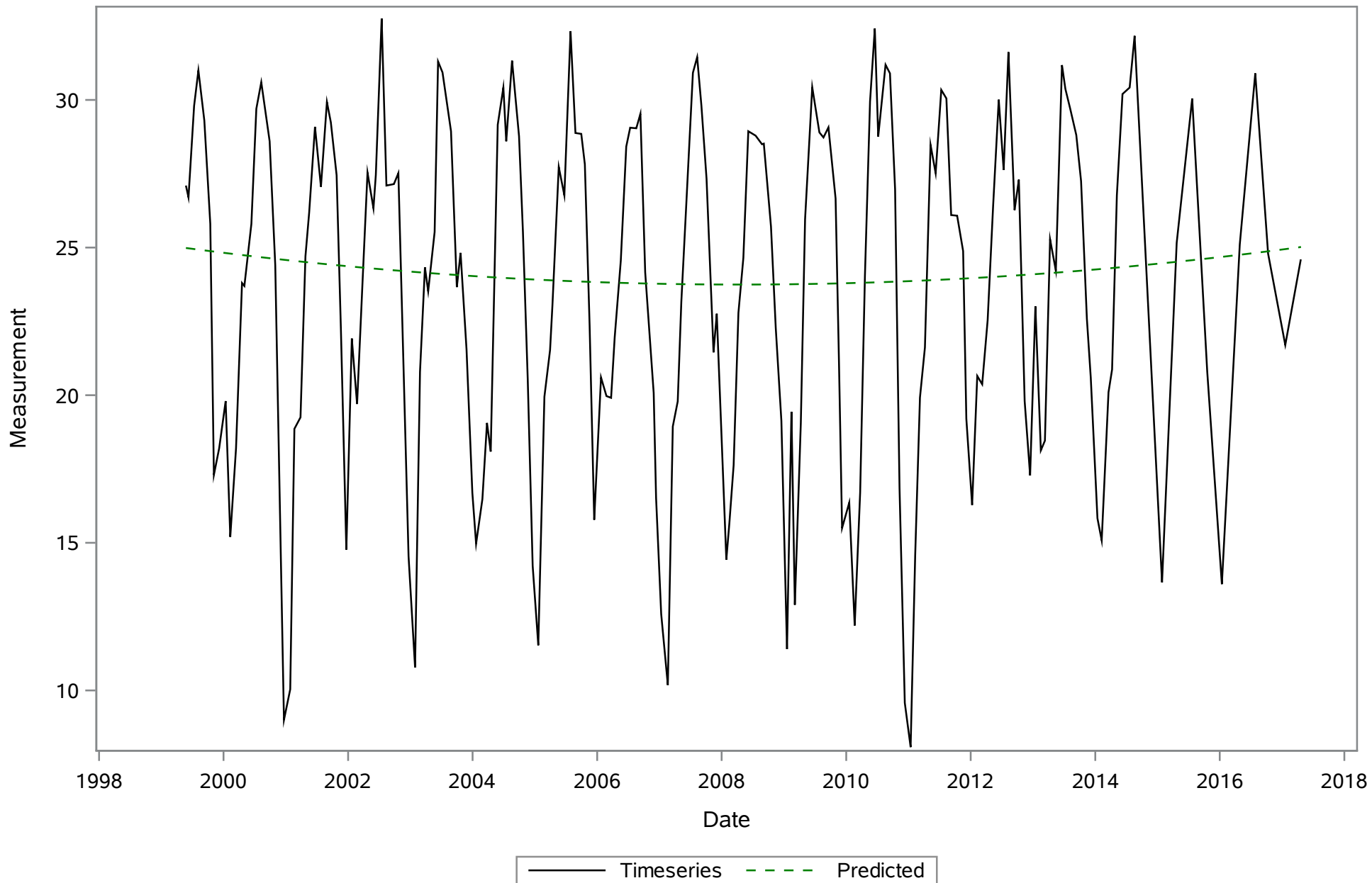
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) ug/L



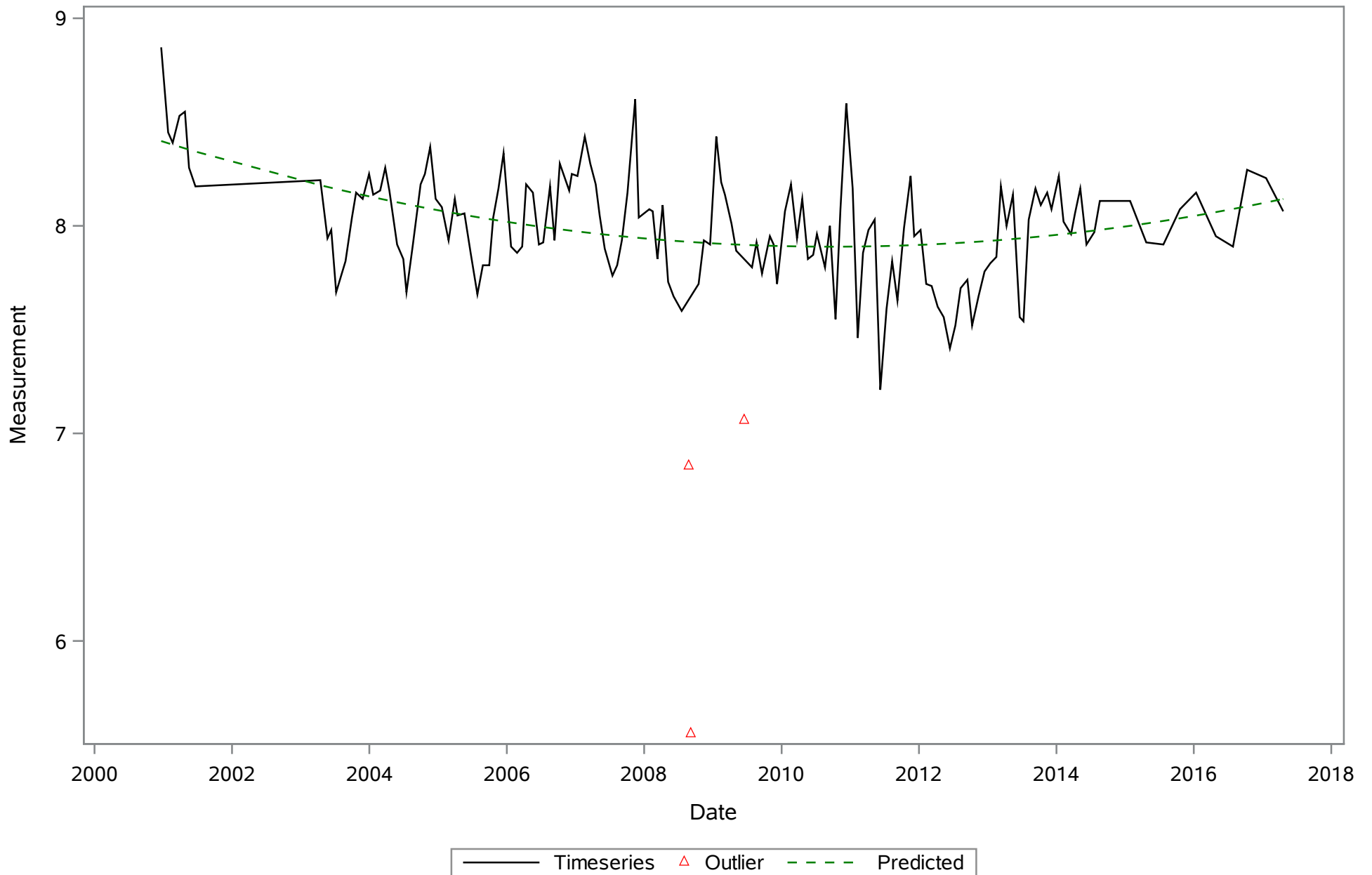
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Salinity (Total) ppt



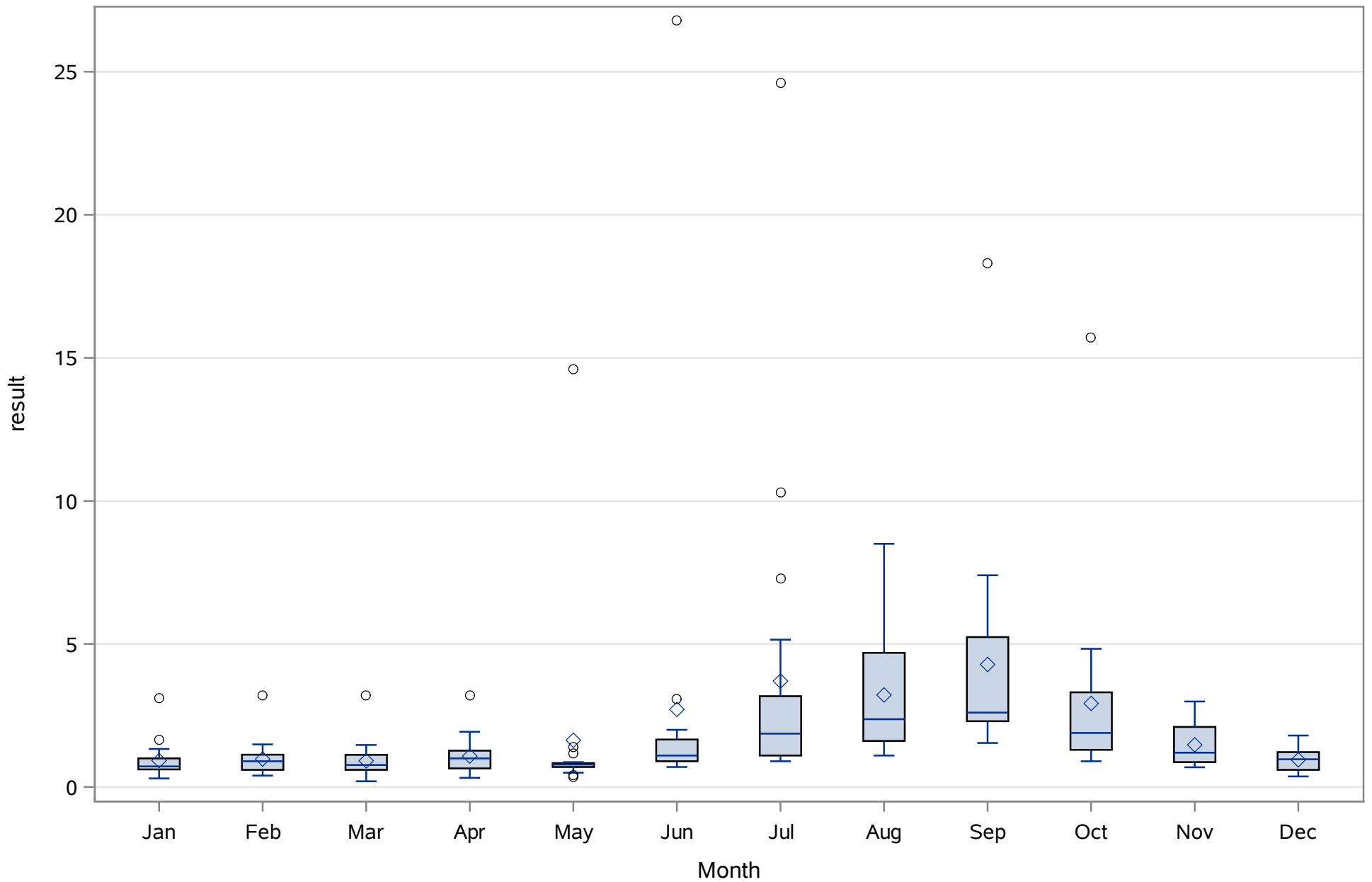
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Temperature (Total) Deg. C



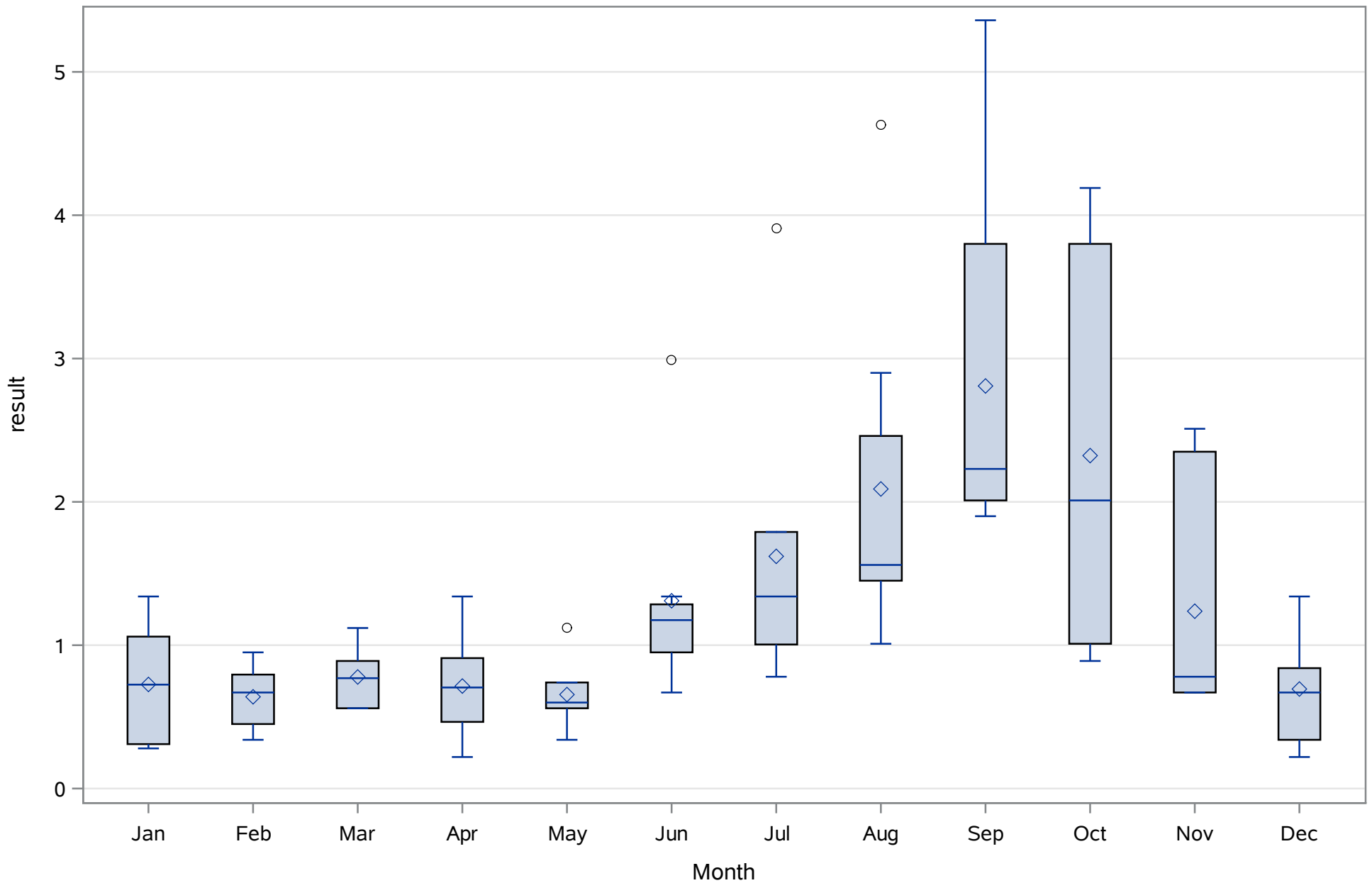
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
pH (Total) SU



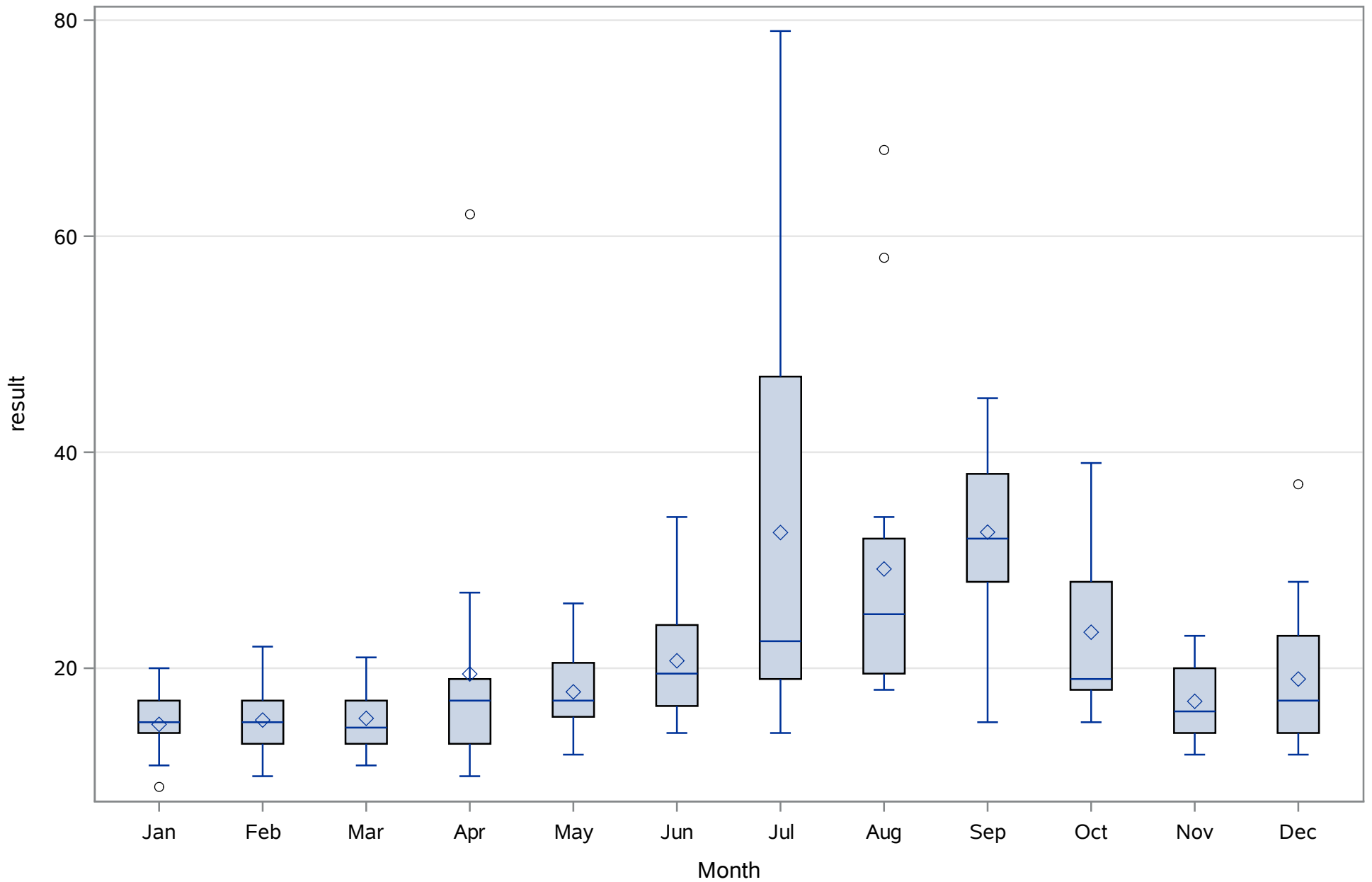
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll (Total) ug/L



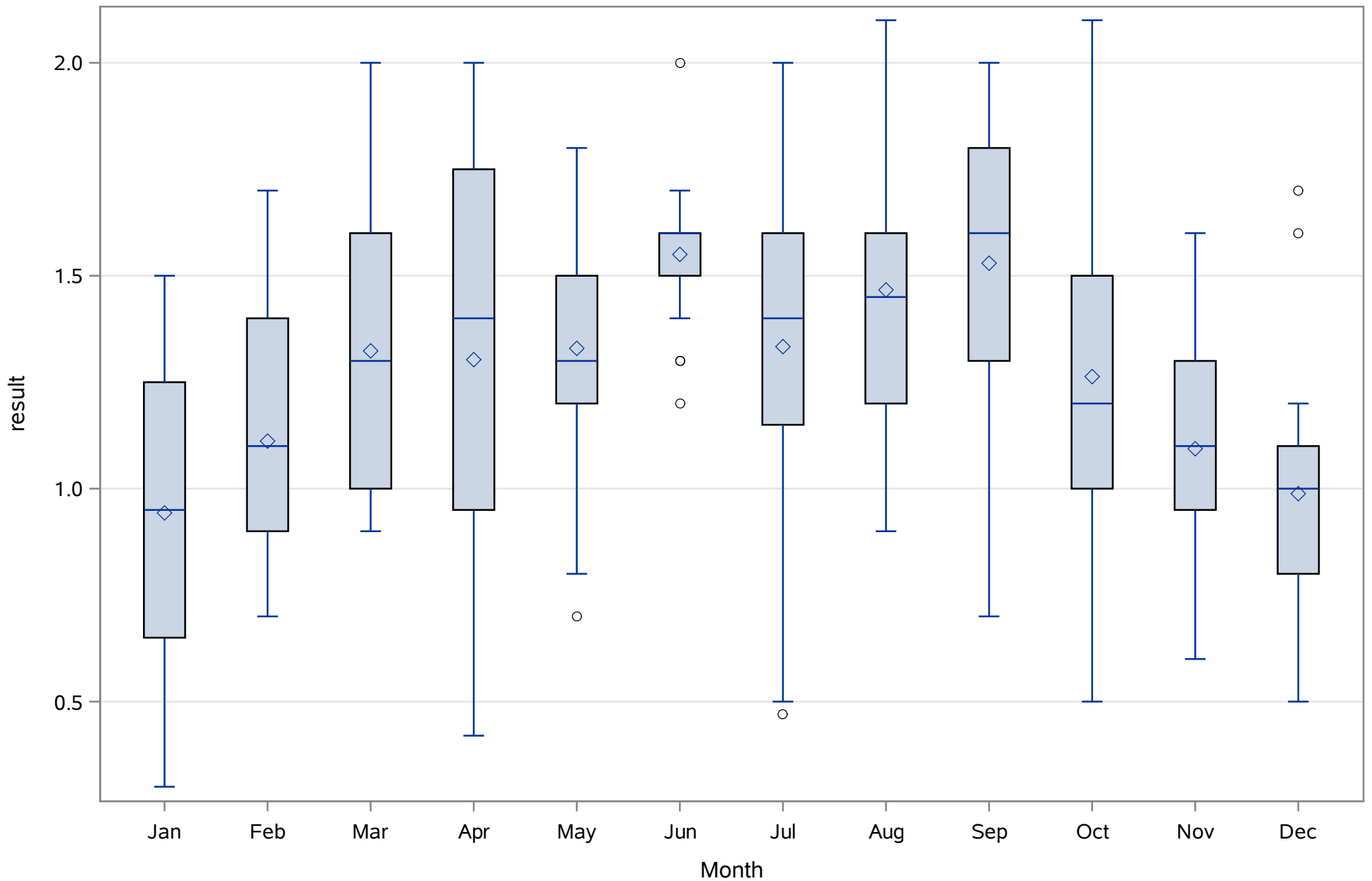
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Chlorophyll a (Total) ug/L



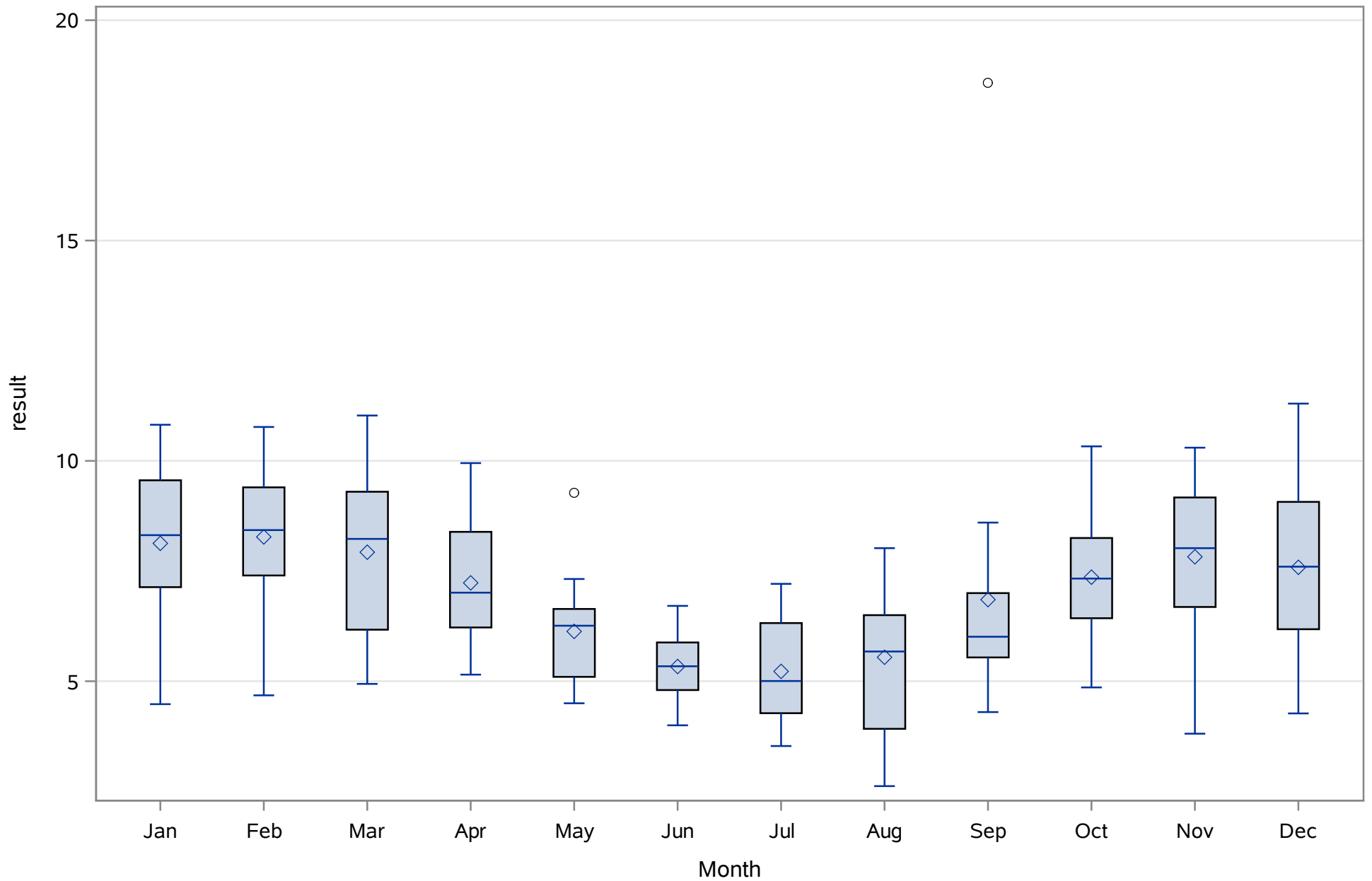
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Color (Total) PCU



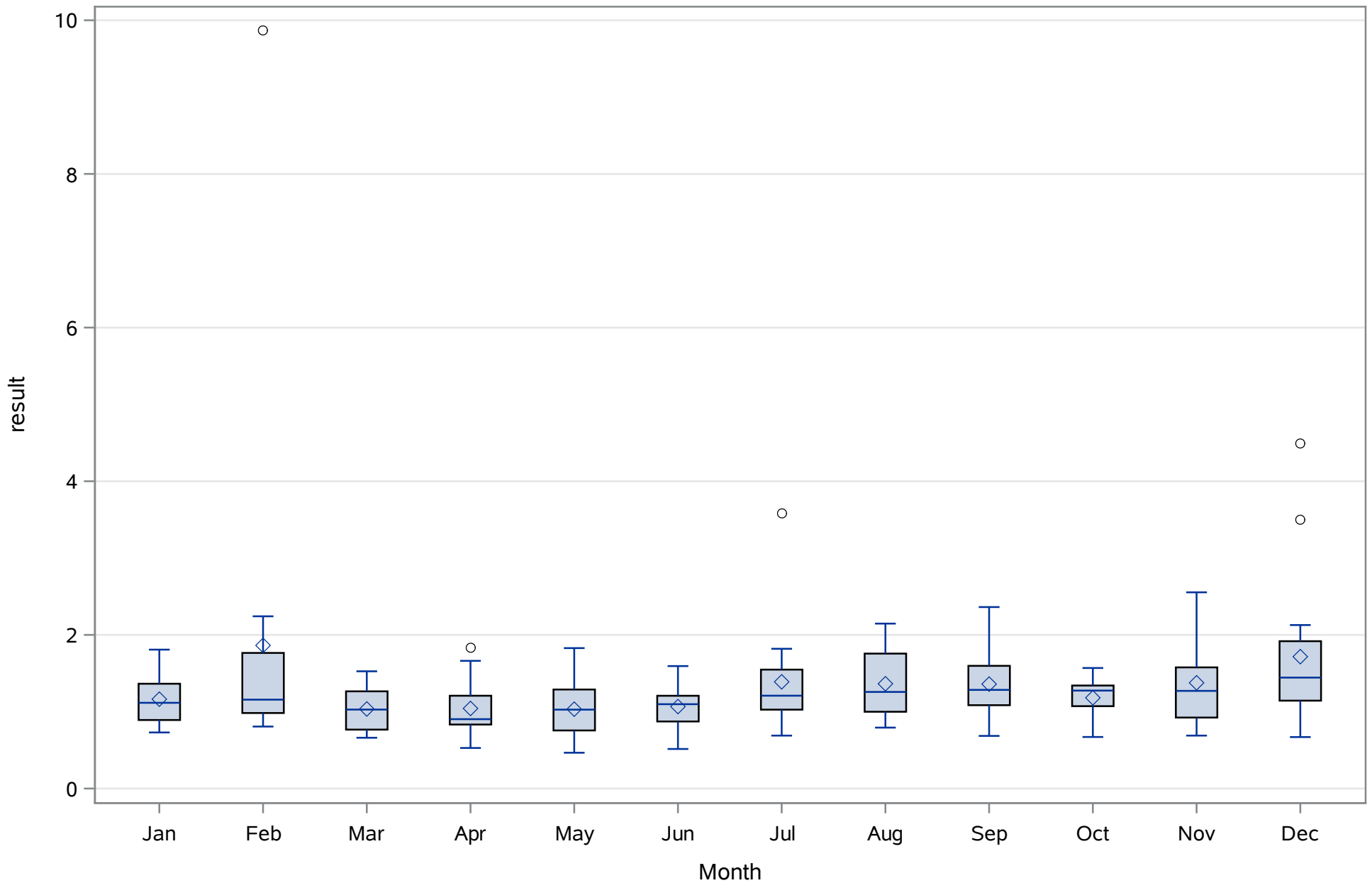
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Depth (Total) Meters



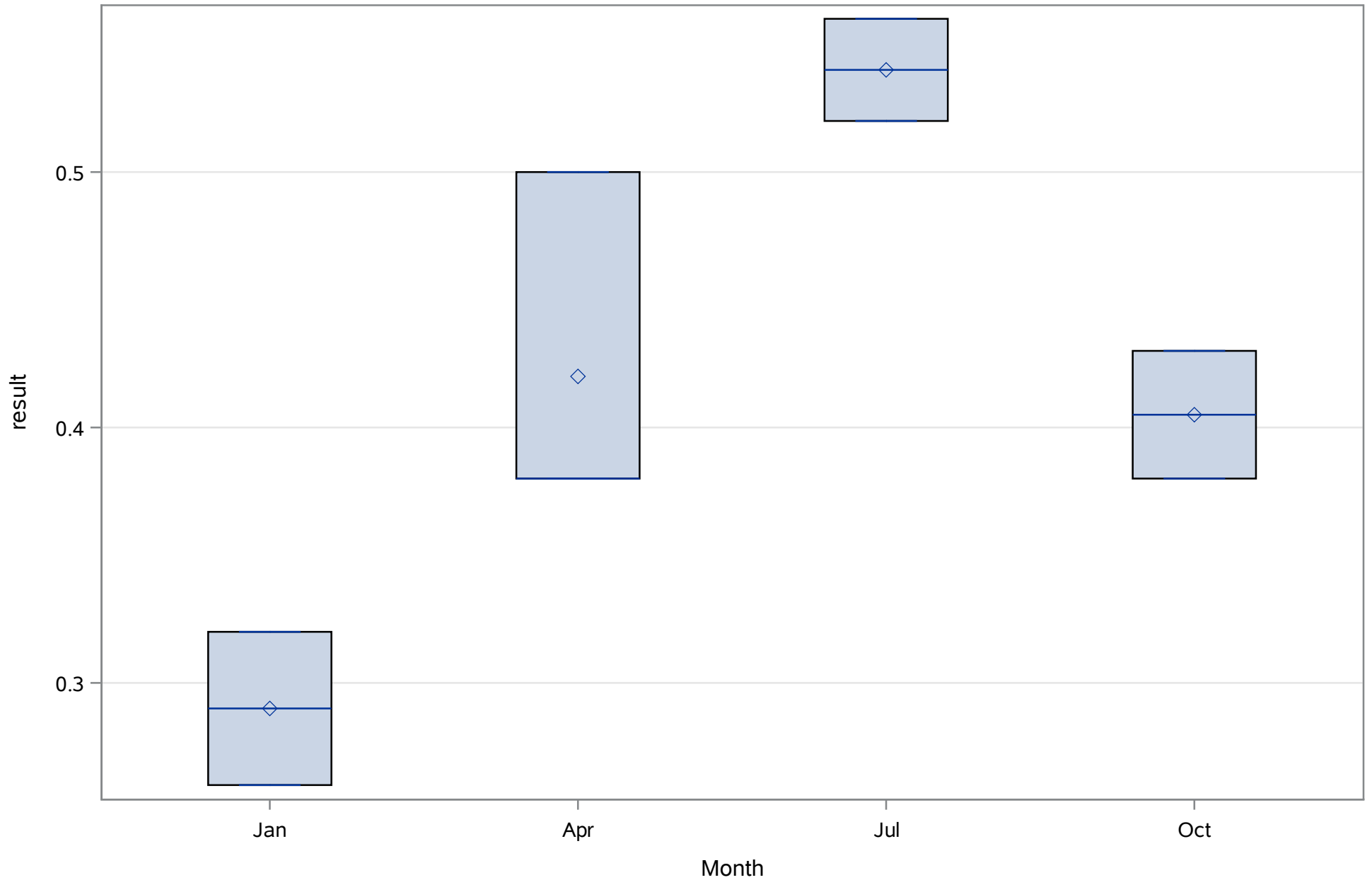
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Dissolved Oxygen (Total) mg/L



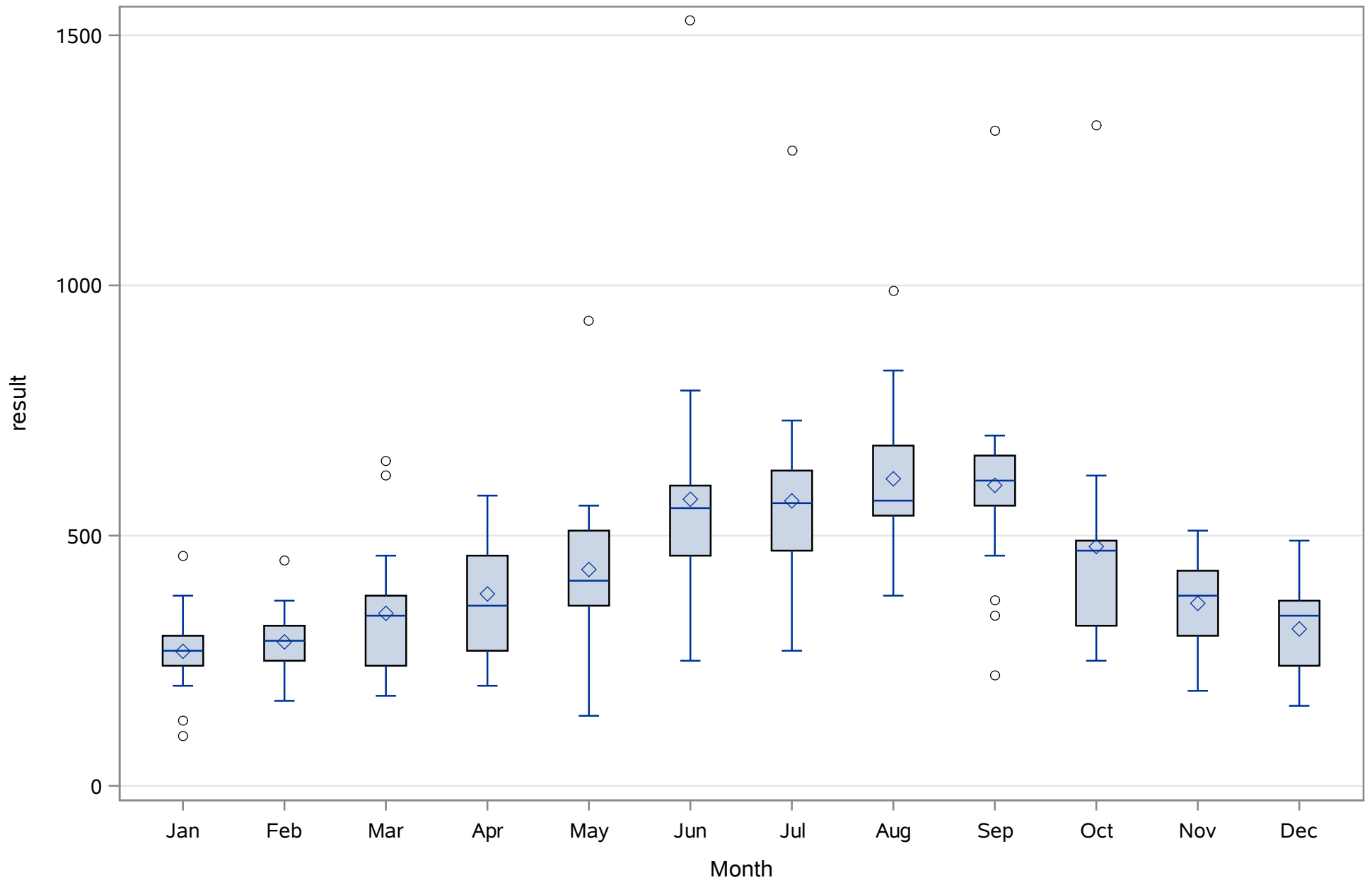
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Light, Attenuation Coefficient Kd/m



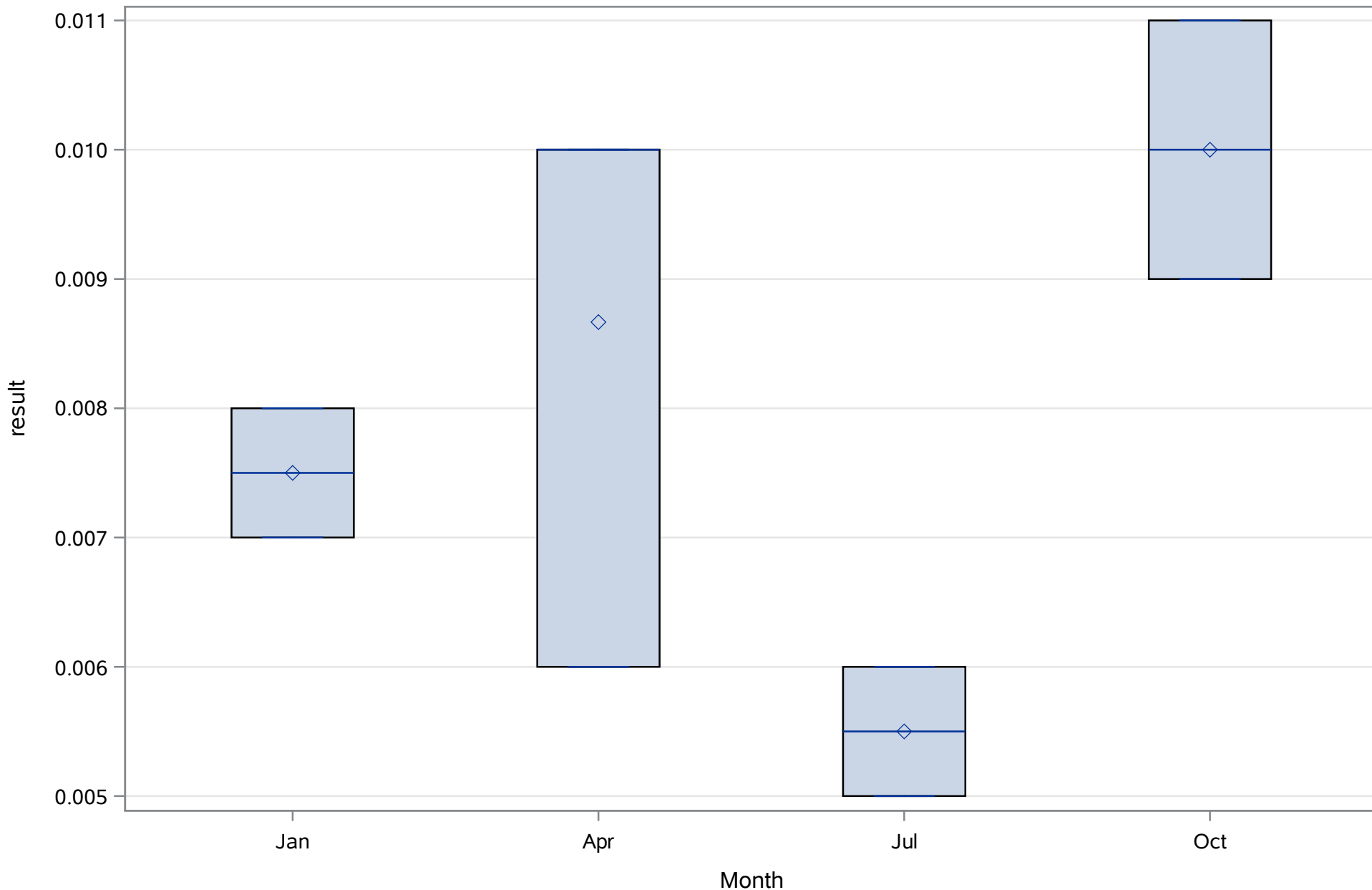
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Nitrogen- Total (Total) mg/L



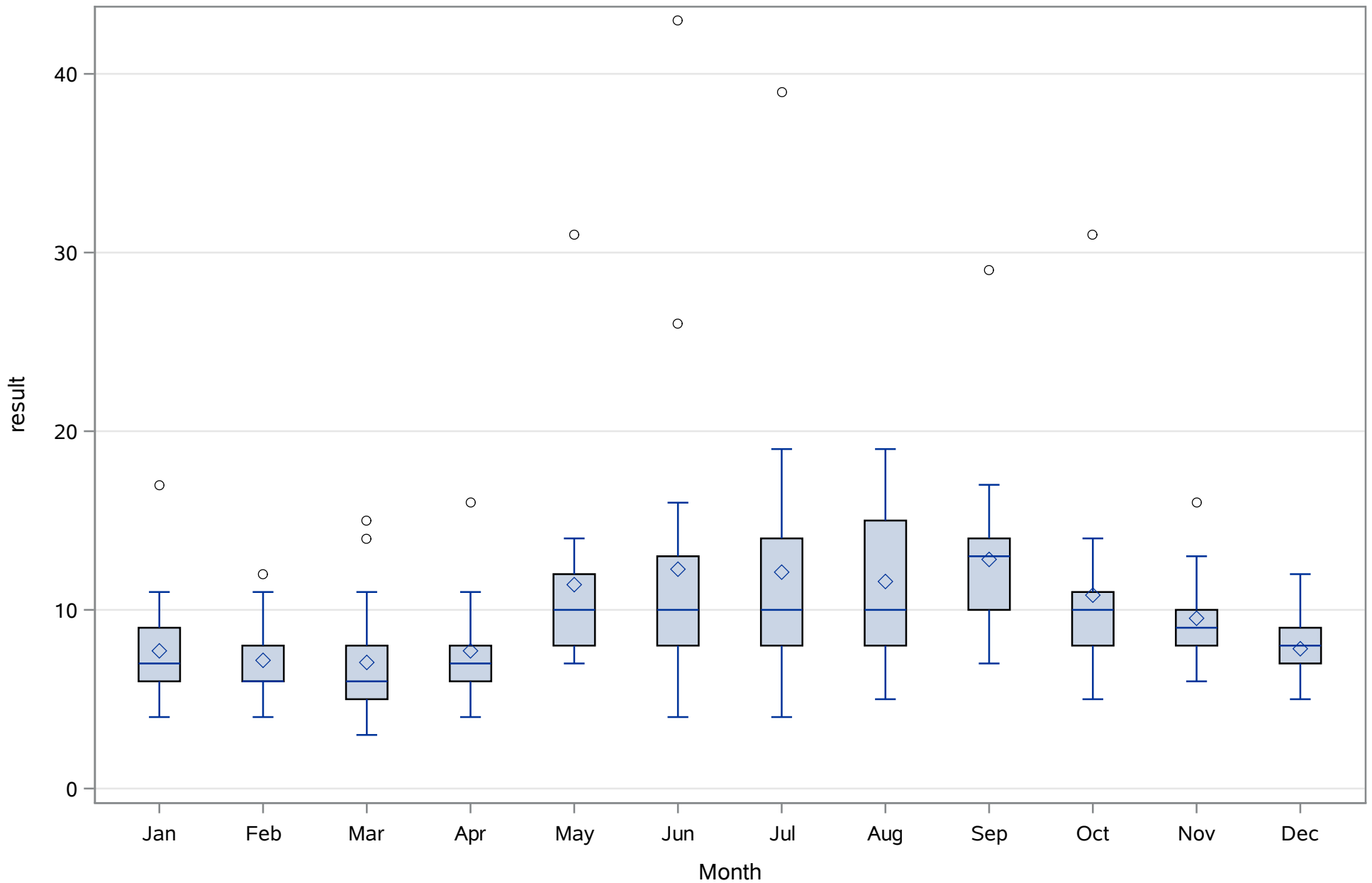
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Nitrogen- Total (Total) ug/L



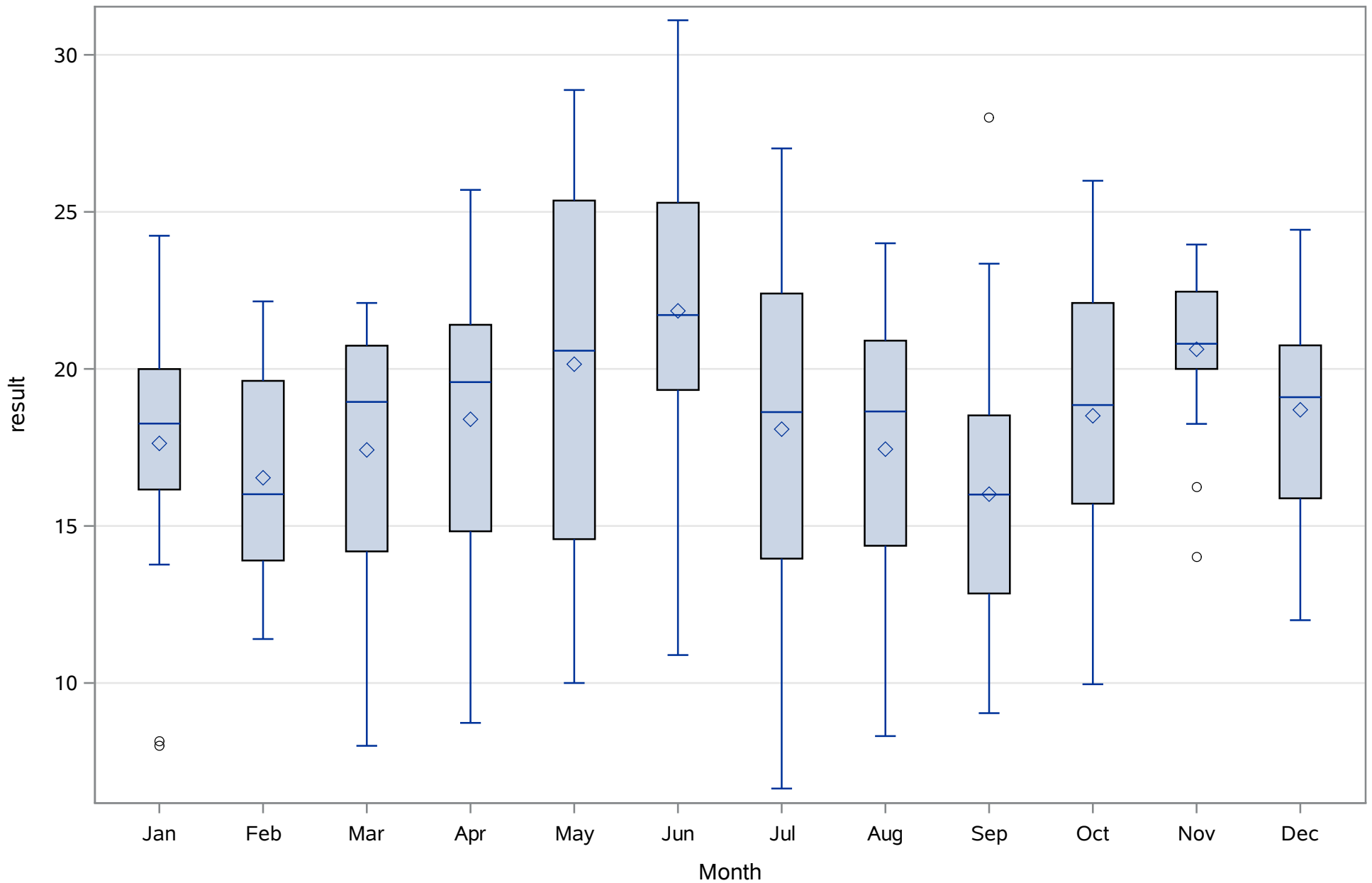
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) mg/L



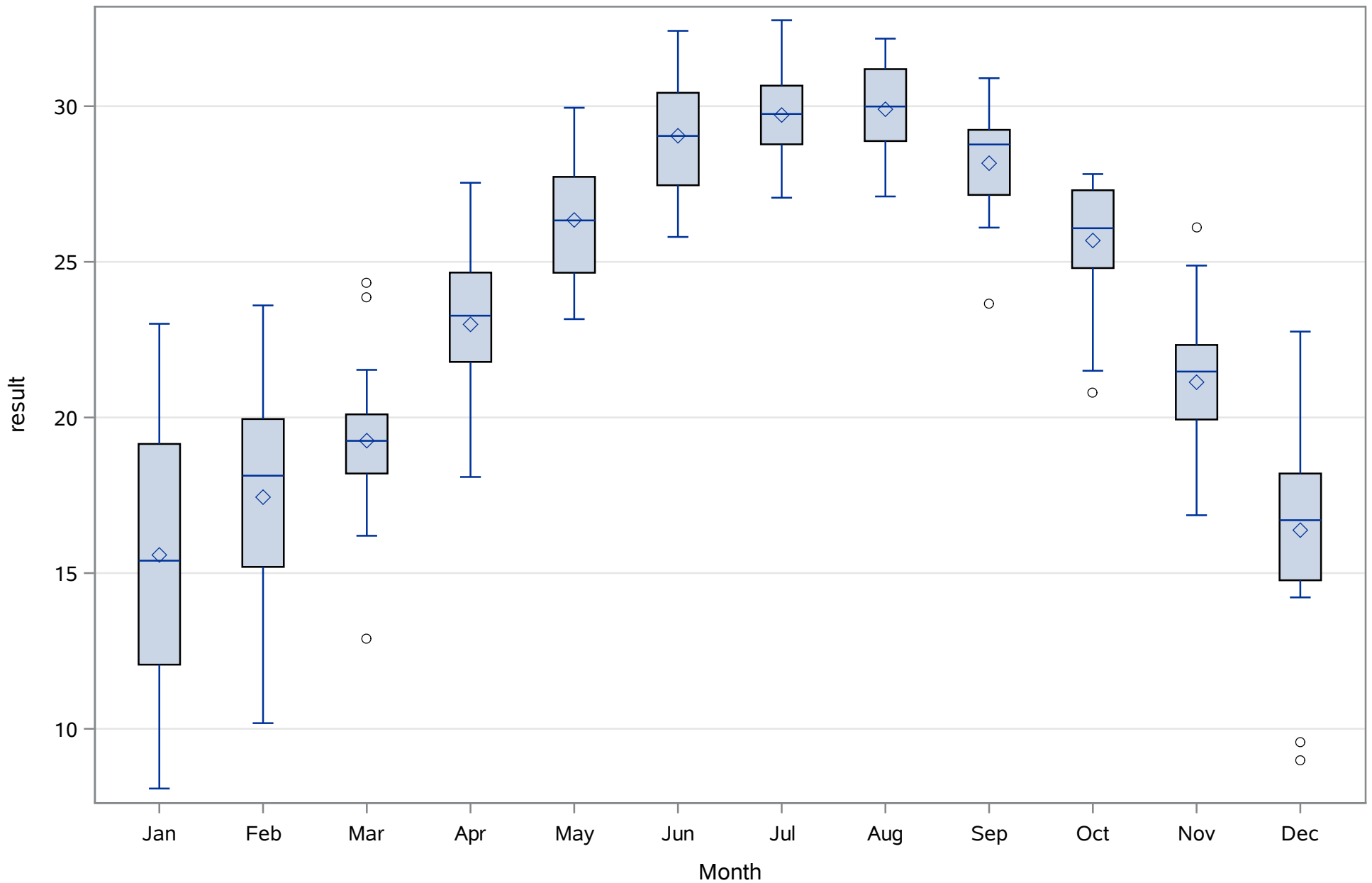
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Phosphorus- Total (Total) ug/L



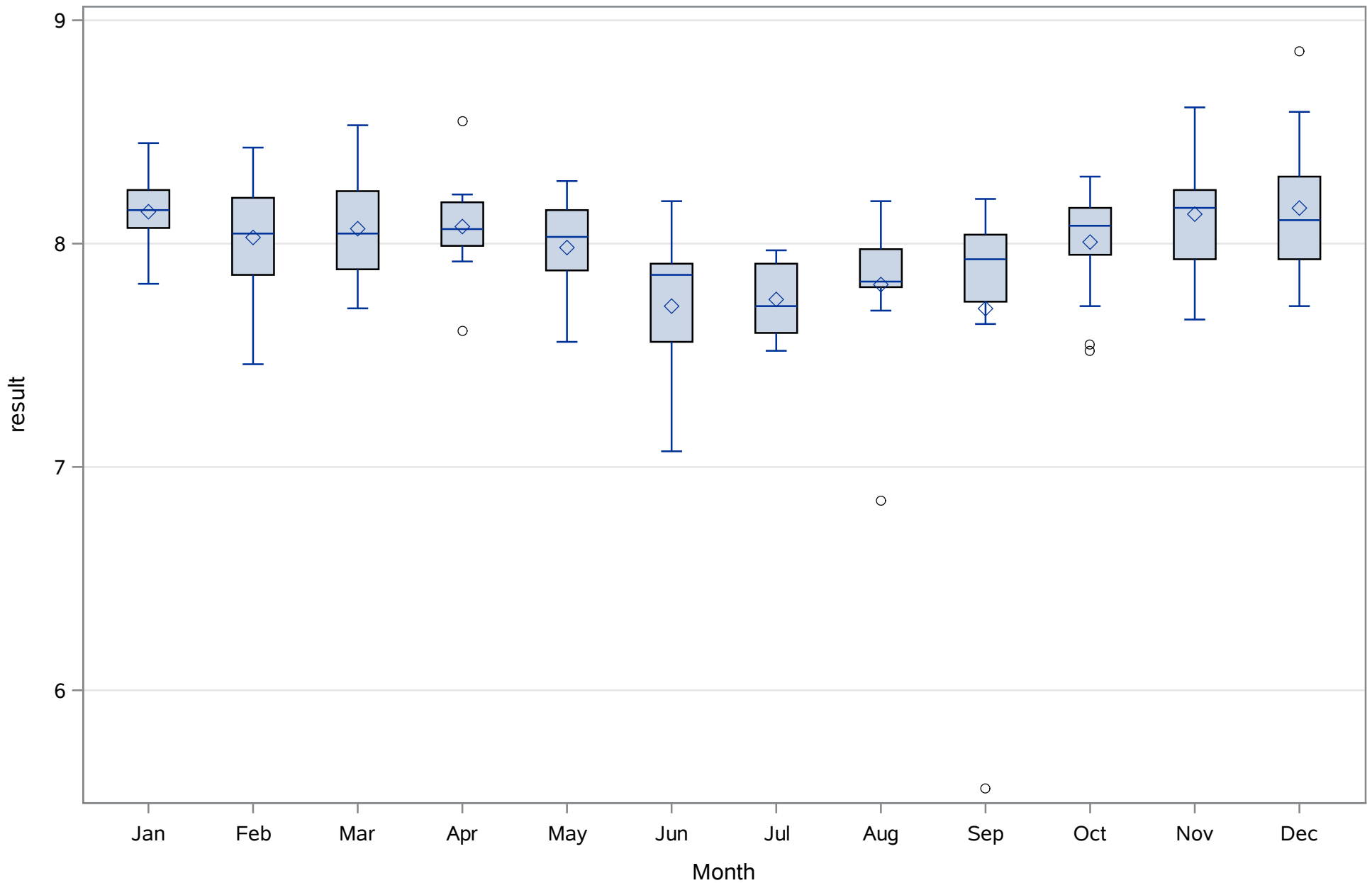
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Salinity (Total) ppth



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 8
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	JUN1997	APR2017	216	6.0%	1.4%	2.8%
Chlorophyll a (Total)	ug/L	FEB2007	AUG2014	91	6.6%	0.0%	2.2%
Color (Dissolved)	PCU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Color (Total)	PCU	MAY1999	AUG2014	184	7.1%	0.5%	1.6%
Depth (Total)	Meters	JUN1997	APR2017	217	0.5%	1.8%	0.0%
Depth, bottom (Total)	Meters	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	APR2017	215	0.0%	1.9%	0.0%
Iron (Dissolved)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	182	3.3%	1.1%	1.1%
Magnesium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	0.0%	1.0%	1.9%
Orthophosphate (P) (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	100.0%
Phaeophytin (Total)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	3.4%	0.5%	2.4%
Potassium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Salinity (Total)	ppth	JUN1997	APR2017	217	0.9%	1.8%	0.5%
Secchi-vertical (Total)	Meters	APR1998	APR2017	23	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	APR2017	216	0.0%	1.9%	0.0%
Turbidity (Total)	NTU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
pH (Total)	SU	DEC2000	APR2017	153	2.0%	1.3%	2.0%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	1.57842593	Sum Observations	340.94
Std Deviation	3.21312806	Variance	10.3241919
Skewness	5.93001566	Kurtosis	40.698169
Uncorrected SS	2757.8498	Corrected SS	2219.70126
Coeff Variation	203.565337	Std Error Mean	0.21862567

Basic Statistical Measures			
Location		Variability	
Mean	1.578426	Std Deviation	3.21313
Median	0.800000	Variance	10.32419
Mode	0.600000	Range	29.52000
		Interquartile Range	0.81000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.219765	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	29.70
99%	21.30
95%	4.90
90%	2.50
75% Q3	1.31
50% Median	0.80
25% Q1	0.50
10%	0.34
5%	0.30
1%	0.20
0% Min	0.18

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.18	120	11.5	17
0.20	47	12.9	75
0.20	34	21.3	14
0.21	107	21.5	13
0.23	142	29.7	12

Chassahowitzka River - Fixed Station

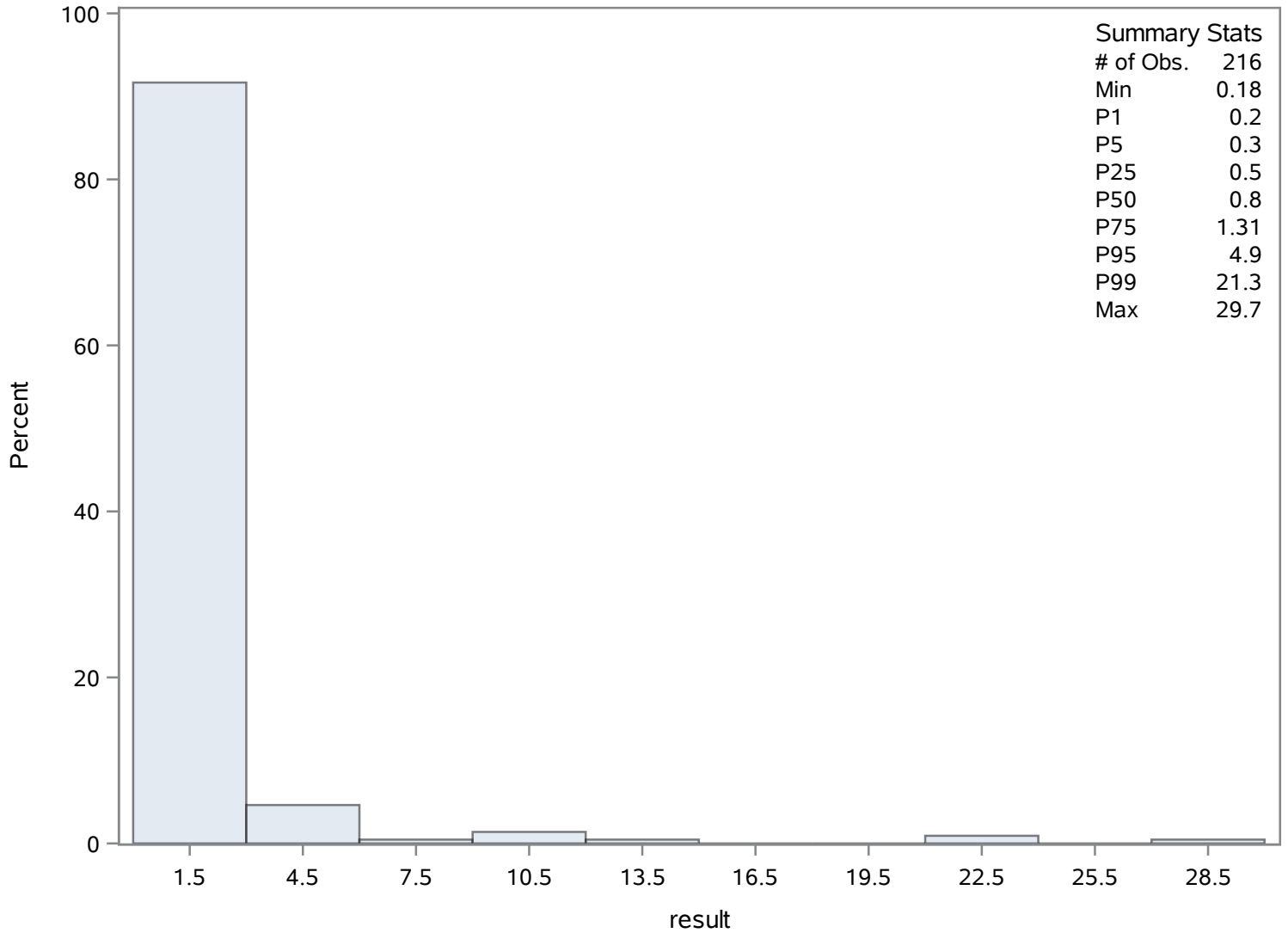
Source: COAST

Chassahowitzka Hernando 9

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	0.92252747	Sum Observations	83.95
Std Deviation	1.21494819	Variance	1.4760991
Skewness	5.50517596	Kurtosis	38.2914604
Uncorrected SS	210.2951	Corrected SS	132.848919
Coeff Variation	131.697778	Std Error Mean	0.12736118

Basic Statistical Measures			
Location		Variability	
Mean	0.922527	Std Deviation	1.21495
Median	0.560000	Variance	1.47610
Mode	0.450000	Range	10.06000
		Interquartile Range	0.62000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.243396	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.17
99%	10.17
95%	2.35
90%	1.56
75% Q3	1.01
50% Median	0.56
25% Q1	0.39
10%	0.25
5%	0.22
1%	0.11
0% Min	0.11

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.11	241	2.35	235
0.15	276	2.90	234
0.17	273	3.35	258
0.22	239	4.75	281
0.22	238	10.17	282

Chassahowitzka River - Fixed Station

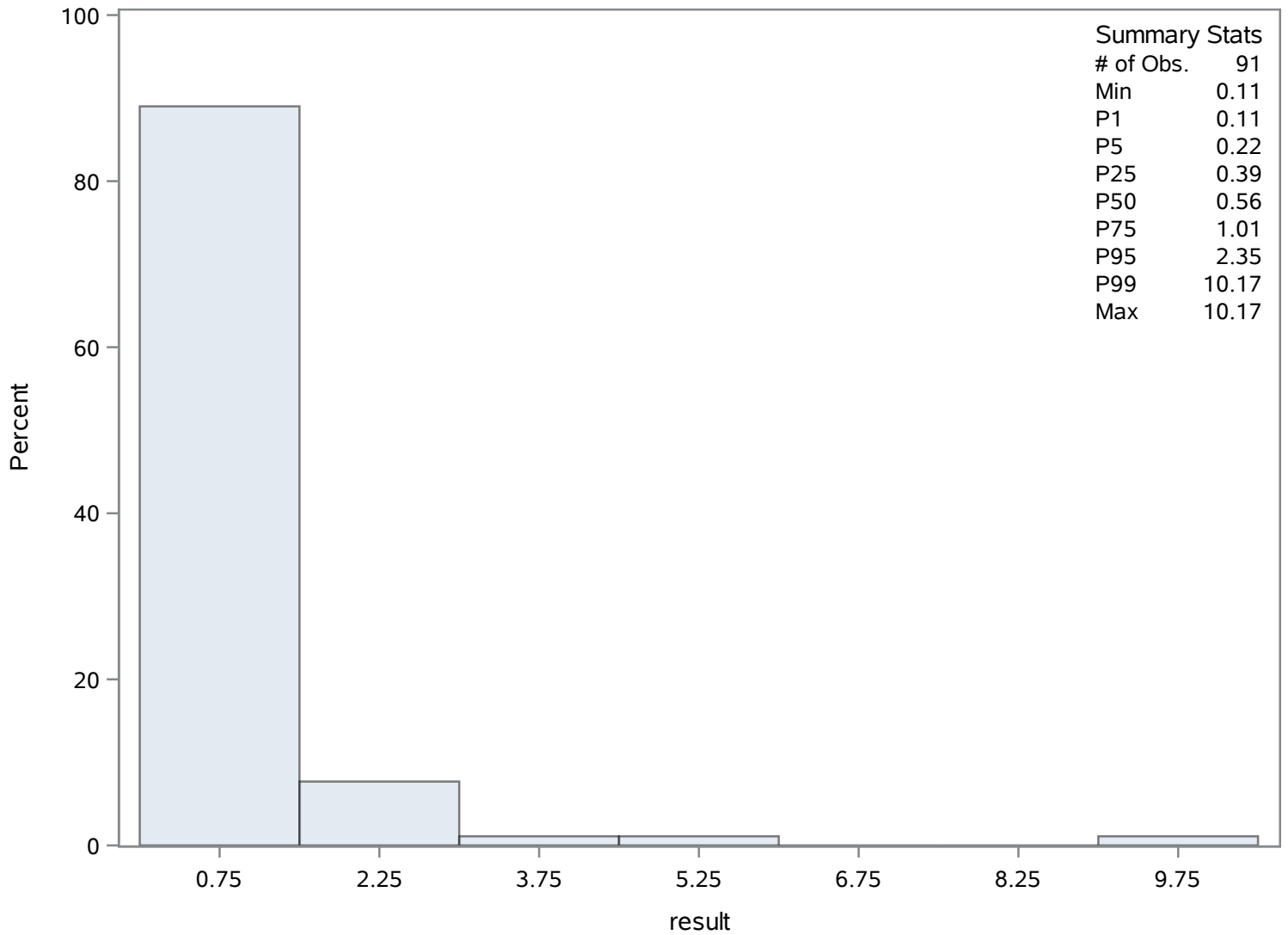
Source: COAST

Chassahowitzka Hernando 9

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	14.423913	Sum Observations	2654
Std Deviation	6.79558471	Variance	46.1799715
Skewness	3.14629315	Kurtosis	16.7410353
Uncorrected SS	46732	Corrected SS	8450.93478
Coeff Variation	47.1133228	Std Error Mean	0.50097715

Basic Statistical Measures			
Location		Variability	
Mean	14.42391	Std Deviation	6.79558
Median	13.00000	Variance	46.17997
Mode	15.00000	Range	58.00000
		Interquartile Range	5.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.79156	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	64.0
99%	42.0
95%	27.0
90%	22.0
75% Q3	16.0
50% Median	13.0
25% Q1	10.5
10%	8.0
5%	7.0
1%	6.0
0% Min	6.0

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6	475	30	360
6	403	32	468
6	332	39	359
7	484	42	467
7	474	64	358

Chassahowitzka River - Fixed Station

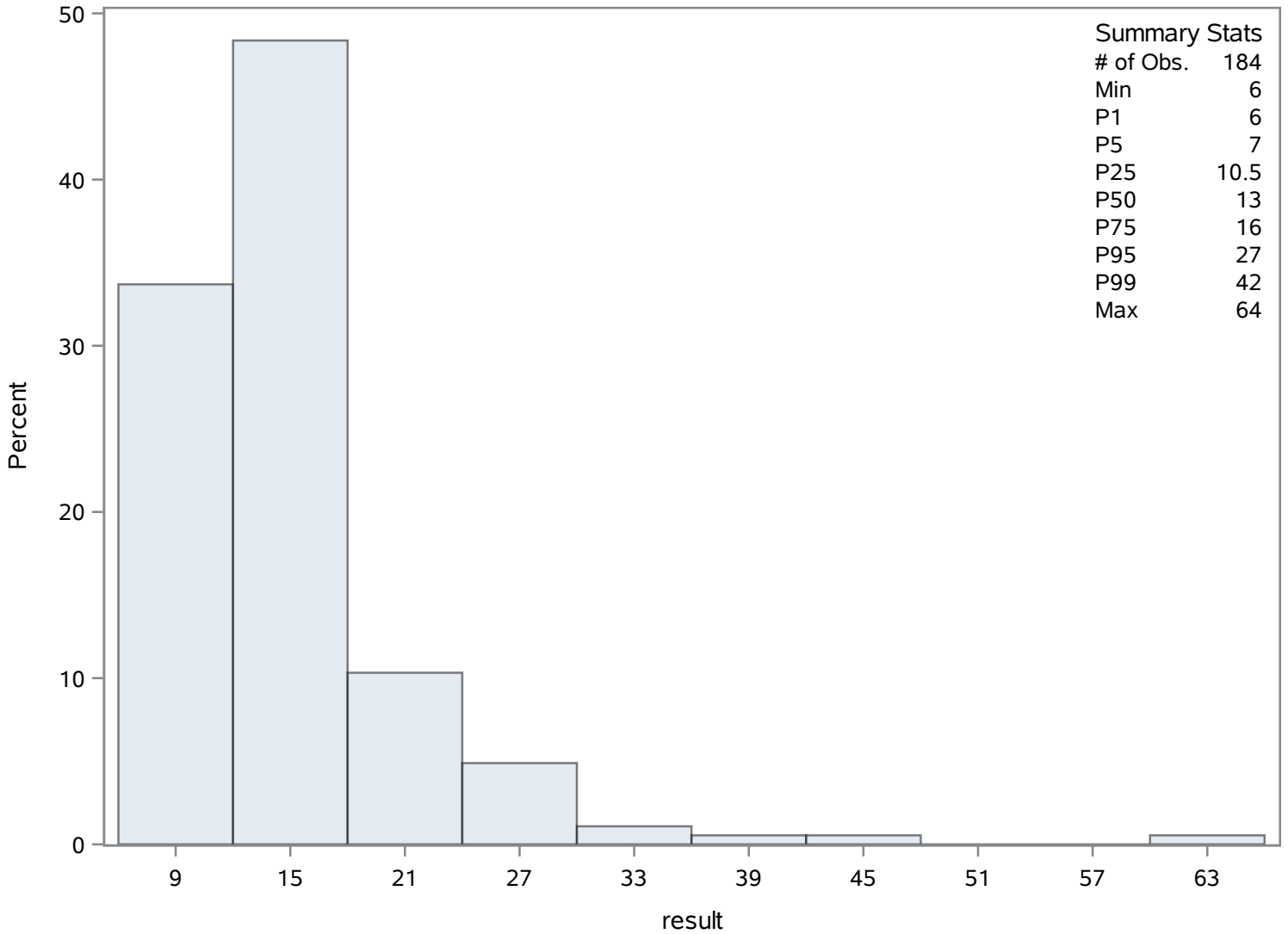
Source: COAST

Chassahowitzka Hernando 9

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	1.37930876	Sum Observations	299.31
Std Deviation	0.41628425	Variance	0.17329258
Skewness	-0.0873842	Kurtosis	0.09045301
Uncorrected SS	450.2721	Corrected SS	37.4311963
Coeff Variation	30.1806428	Std Error Mean	0.02825922

Basic Statistical Measures			
Location		Variability	
Mean	1.379309	Std Deviation	0.41628
Median	1.400000	Variance	0.17329
Mode	1.300000	Range	2.15000
		Interquartile Range	0.60000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	48.80917	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.50
99%	2.30
95%	2.00
90%	1.90
75% Q3	1.70
50% Median	1.40
25% Q1	1.10
10%	0.90
5%	0.50
1%	0.50
0% Min	0.35

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.35	703	2.3	495
0.36	707	2.3	587
0.50	708	2.3	591
0.50	706	2.5	507
0.50	705	2.5	523

Chassahowitzka River - Fixed Station

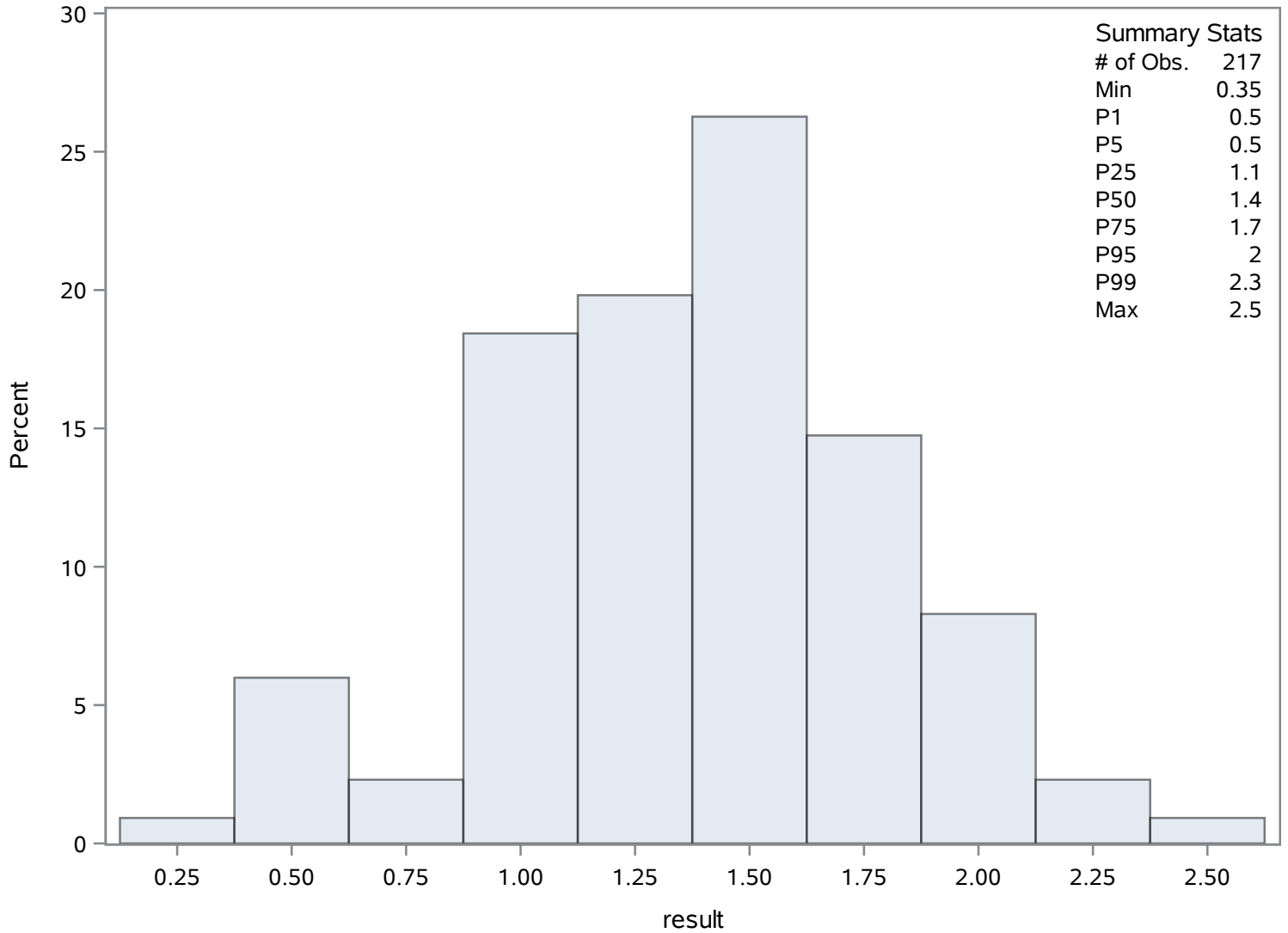
Source: COAST

Chassahowitzka Hernando 9

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	7.16186047	Sum Observations	1539.8
Std Deviation	1.62003412	Variance	2.62451054
Skewness	0.19194432	Kurtosis	-0.6123113
Uncorrected SS	11589.478	Corrected SS	561.645256
Coeff Variation	22.6202971	Std Error Mean	0.11048541

Basic Statistical Measures			
Location		Variability	
Mean	7.161860	Std Deviation	1.62003
Median	6.920000	Variance	2.62451
Mode	6.700000	Range	8.04000
		Interquartile Range	2.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	64.82178	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.20
99%	10.60
95%	10.02
90%	9.43
75% Q3	8.34
50% Median	6.92
25% Q1	5.94
10%	5.11
5%	4.72
1%	4.08
0% Min	3.16

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.16	865	10.50	903
4.07	821	10.58	905
4.08	823	10.60	896
4.15	878	10.87	798
4.15	829	11.20	751

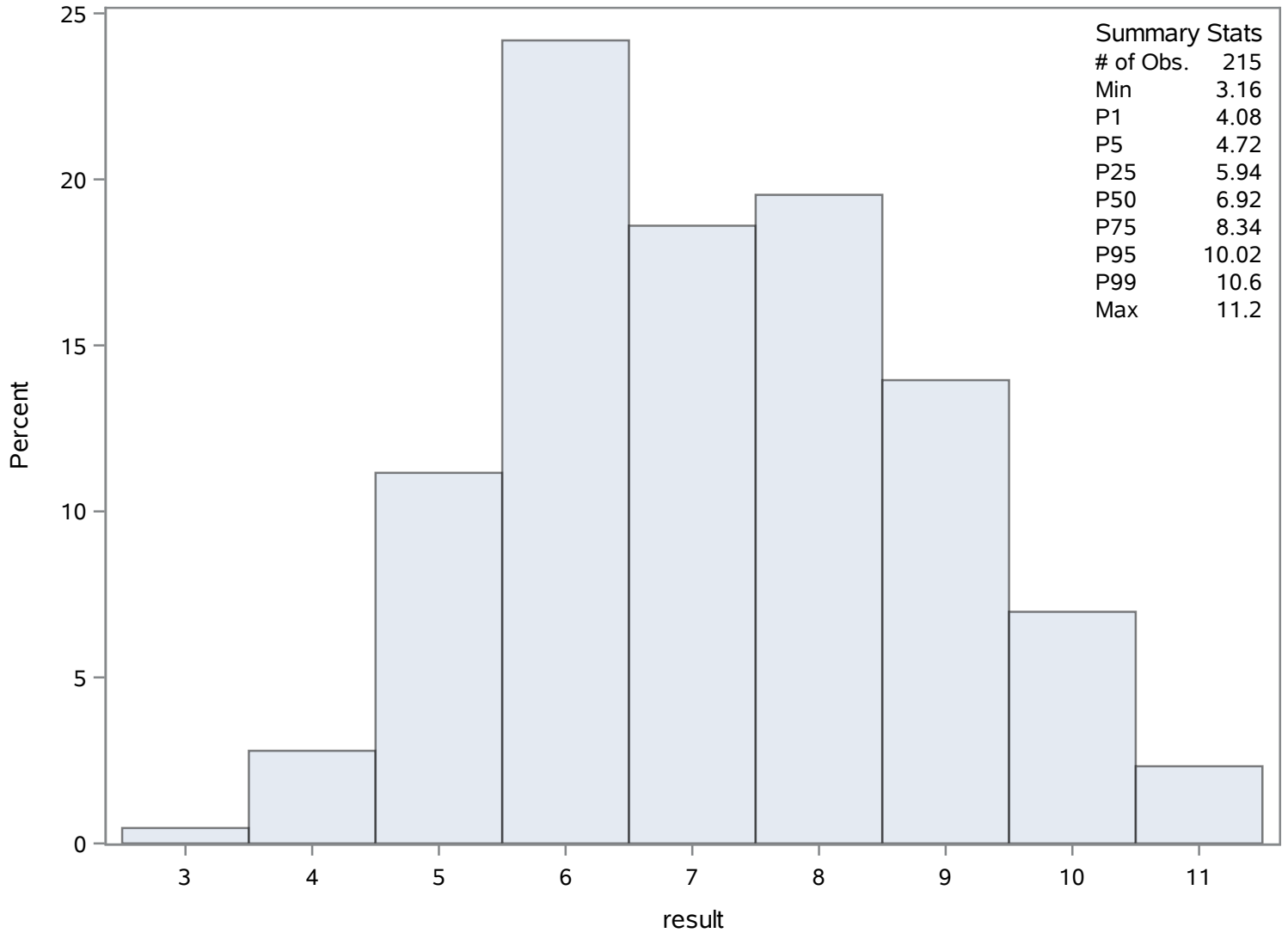
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 9 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	182	Sum Weights	182
Mean	1.05237363	Sum Observations	191.532
Std Deviation	0.5070462	Variance	0.25709585
Skewness	2.49519002	Kurtosis	10.557138
Uncorrected SS	248.097574	Corrected SS	46.5343486
Coeff Variation	48.181196	Std Error Mean	0.03758476

Basic Statistical Measures			
Location		Variability	
Mean	1.052374	Std Deviation	0.50705
Median	0.949500	Variance	0.25710
Mode	0.538000	Range	3.83900
		Interquartile Range	0.46600

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	28.00001	Pr > t 	<.0001
Sign	M	91	Pr >= M 	<.0001
Signed Rank	S	8326.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.0130
99%	3.8270
95%	1.8820
90%	1.6350
75% Q3	1.2250
50% Median	0.9495
25% Q1	0.7590
10%	0.6000
5%	0.4950

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

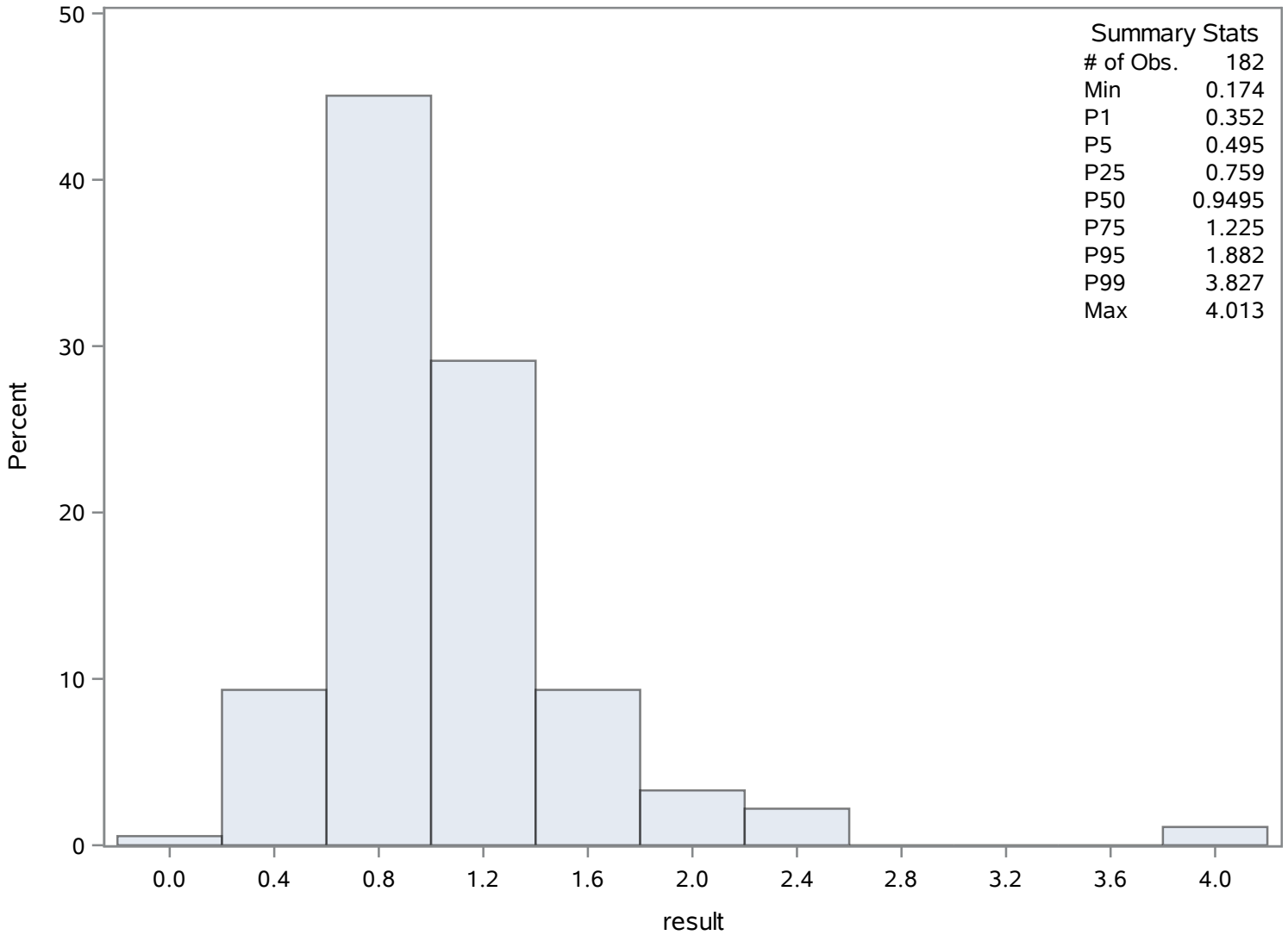
Quantiles (Definition 5)	
Level	Quantile
1%	0.3520
0% Min	0.1740

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.174	936	2.374	1015
0.352	1027	2.388	1024
0.394	945	2.527	972
0.420	944	3.827	934
0.445	1005	4.013	956

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.35	Sum Observations	3.15
Std Deviation	0.06652067	Variance	0.004425
Skewness	0.33414579	Kurtosis	-0.1170435
Uncorrected SS	1.1379	Corrected SS	0.0354
Coeff Variation	19.0059067	Std Error Mean	0.02217356

Basic Statistical Measures			
Location		Variability	
Mean	0.350000	Std Deviation	0.06652
Median	0.350000	Variance	0.00443
Mode	.	Range	0.21000
		Interquartile Range	0.08000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.78457	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.47
99%	0.47
95%	0.47
90%	0.47
75% Q3	0.39
50% Median	0.35
25% Q1	0.31
10%	0.26
5%	0.26
1%	0.26
0% Min	0.26

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.26	1109	0.35	1112
0.27	1113	0.37	1106
0.31	1114	0.39	1110
0.33	1108	0.40	1107
0.35	1112	0.47	1111

Chassahowitzka River - Fixed Station

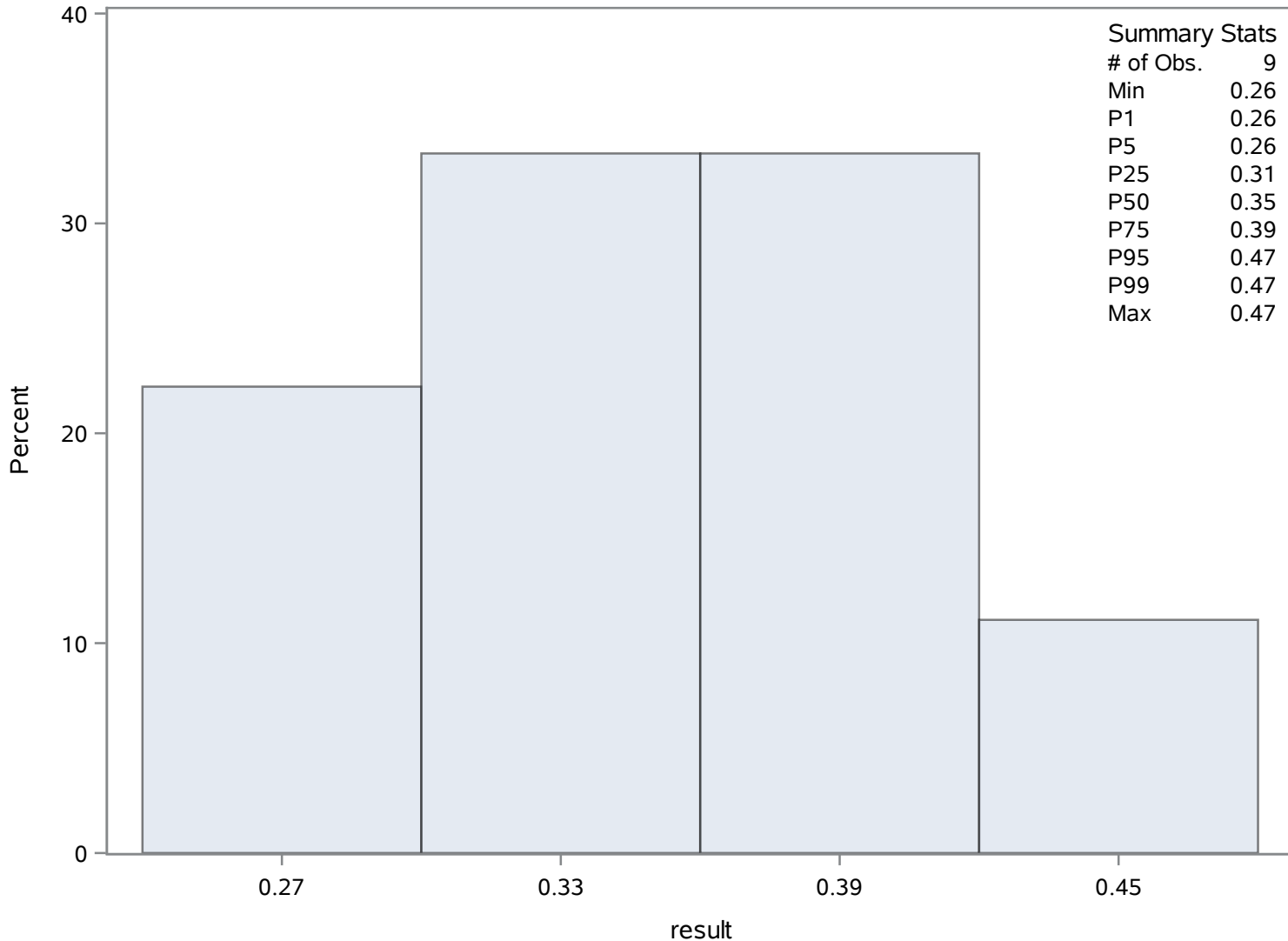
Source: COAST

Chassahowitzka Hernando 9

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	402.475728	Sum Observations	82910
Std Deviation	177.819275	Variance	31619.6945
Skewness	1.83278972	Kurtosis	6.58096911
Uncorrected SS	39851300	Corrected SS	6482037.38
Coeff Variation	44.1813661	Std Error Mean	12.3892559

Basic Statistical Measures			
Location		Variability	
Mean	402.4757	Std Deviation	177.81927
Median	375.0000	Variance	31620
Mode	230.0000	Range	1250
		Interquartile Range	190.00000

Note: The mode displayed is the smallest of 2 modes with a count of 9.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.48587	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1320
99%	1160
95%	660
90%	590
75% Q3	480
50% Median	375
25% Q1	290
10%	230
5%	180

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	110
0% Min	70

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
70	1256	810	1130
90	1121	1020	1131
110	1312	1160	1126
120	1255	1250	1127
140	1242	1320	1128

Chassahowitzka River - Fixed Station

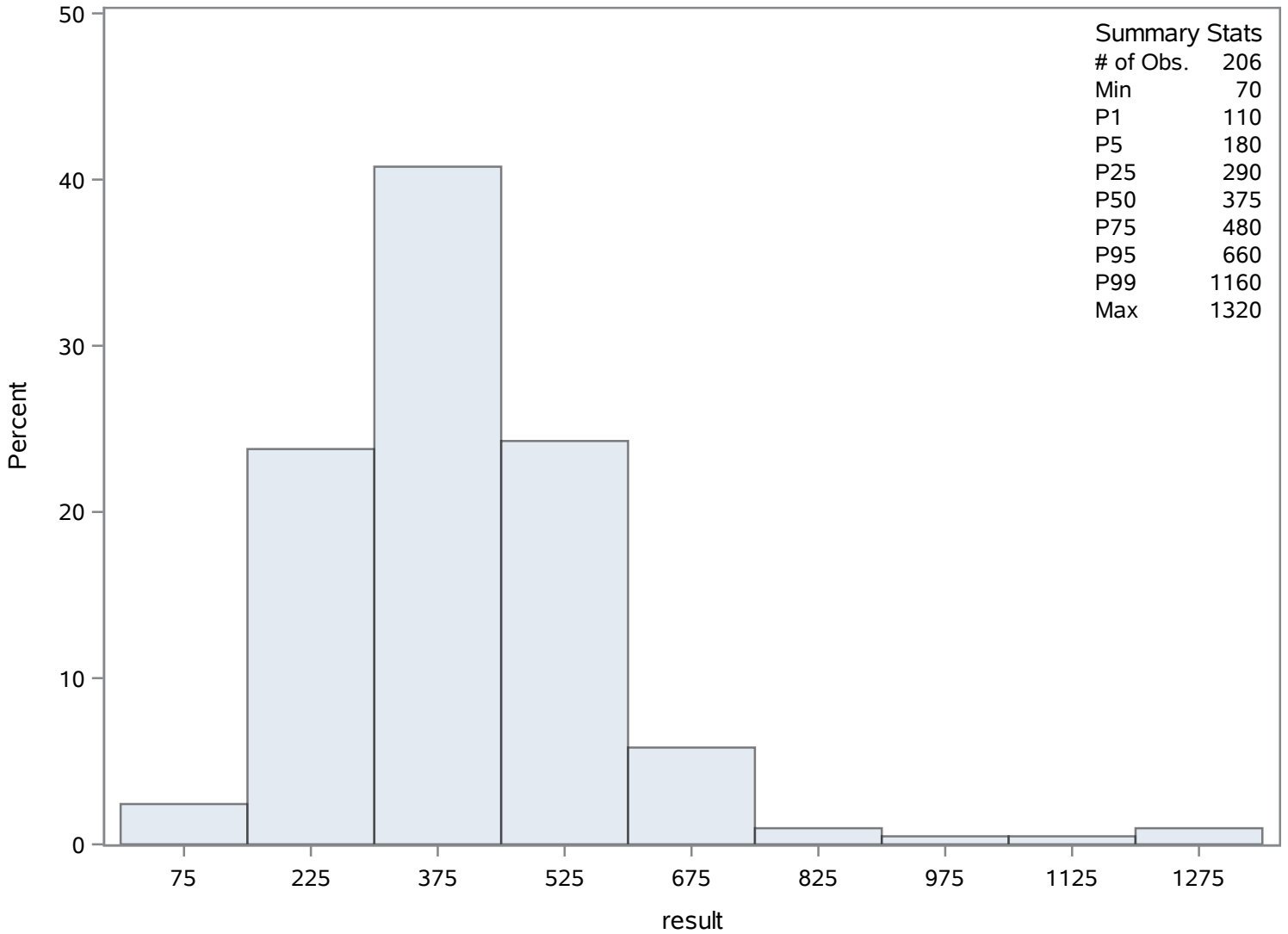
Source: COAST

Chassahowitzka Hernando 9

Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.00833333	Sum Observations	0.075
Std Deviation	0.002	Variance	4E-6
Skewness	0.61607143	Kurtosis	-0.2410714
Uncorrected SS	0.000657	Corrected SS	0.000032
Coeff Variation	24	Std Error Mean	0.00066667

Basic Statistical Measures			
Location		Variability	
Mean	0.008333	Std Deviation	0.00200
Median	0.008000	Variance	4E-6
Mode	0.008000	Range	0.00600
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.5	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.012
99%	0.012
95%	0.012
90%	0.012
75% Q3	0.010
50% Median	0.008
25% Q1	0.007
10%	0.006
5%	0.006
1%	0.006
0% Min	0.006

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) mg/L

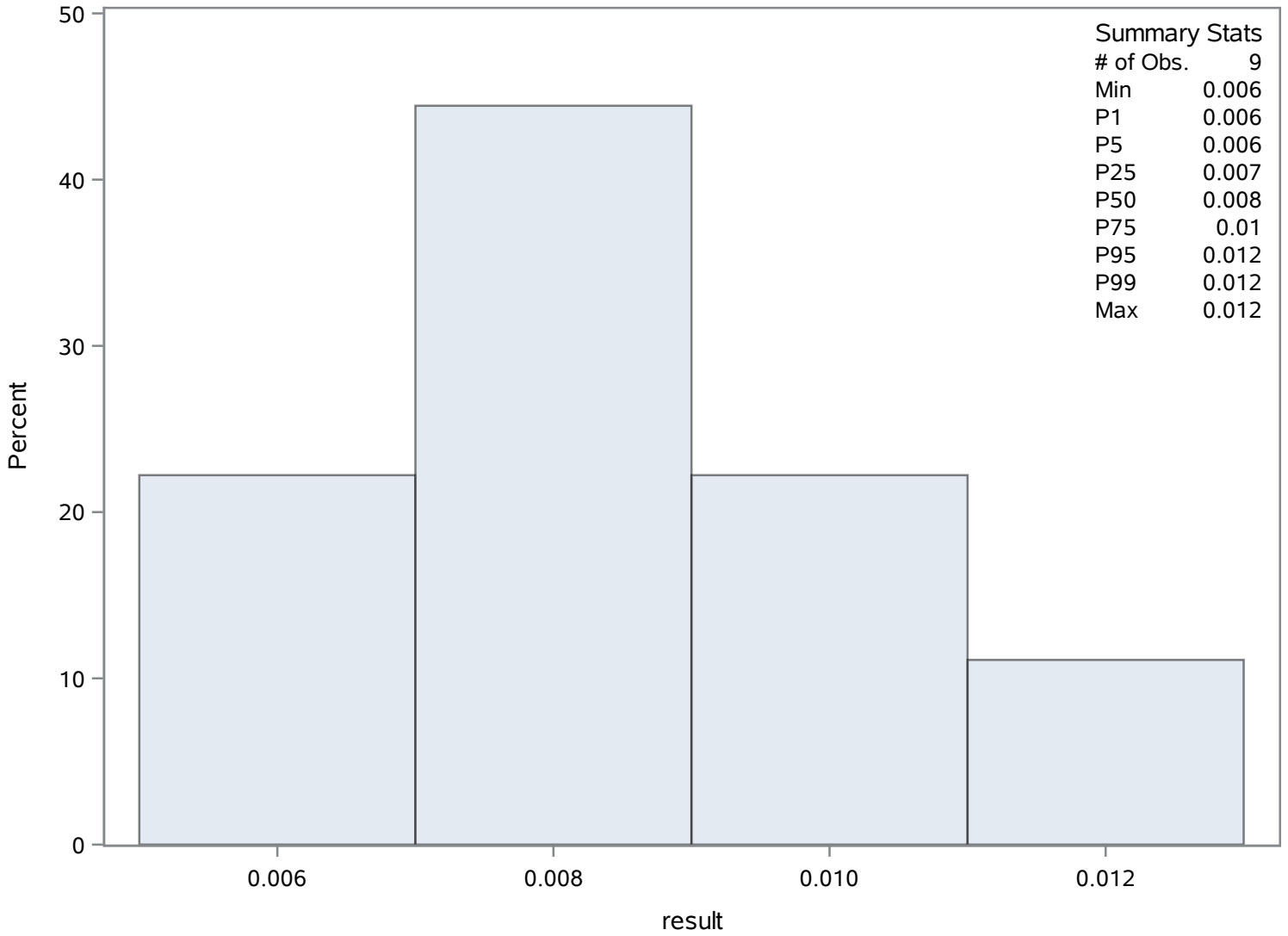
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	1329	0.008	1324
0.006	1326	0.008	1327
0.007	1328	0.010	1321
0.008	1327	0.010	1325
0.008	1324	0.012	1322

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	9.16990291	Sum Observations	1889
Std Deviation	5.39243074	Variance	29.0783093
Skewness	2.93120661	Kurtosis	11.6742253
Uncorrected SS	23283	Corrected SS	5961.0534
Coeff Variation	58.8057561	Std Error Mean	0.37570845

Basic Statistical Measures			
Location		Variability	
Mean	9.169903	Std Deviation	5.39243
Median	8.000000	Variance	29.07831
Mode	7.000000	Range	38.00000
		Interquartile Range	5.00000

Note: The mode displayed is the smallest of 2 modes with a count of 33.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.40696	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	41
99%	35
95%	19
90%	14
75% Q3	11
50% Median	8
25% Q1	6
10%	5
5%	4

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3
0% Min	3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	1508	29	1404
3	1507	31	1347
3	1504	35	1341
3	1499	35	1342
3	1470	41	1343

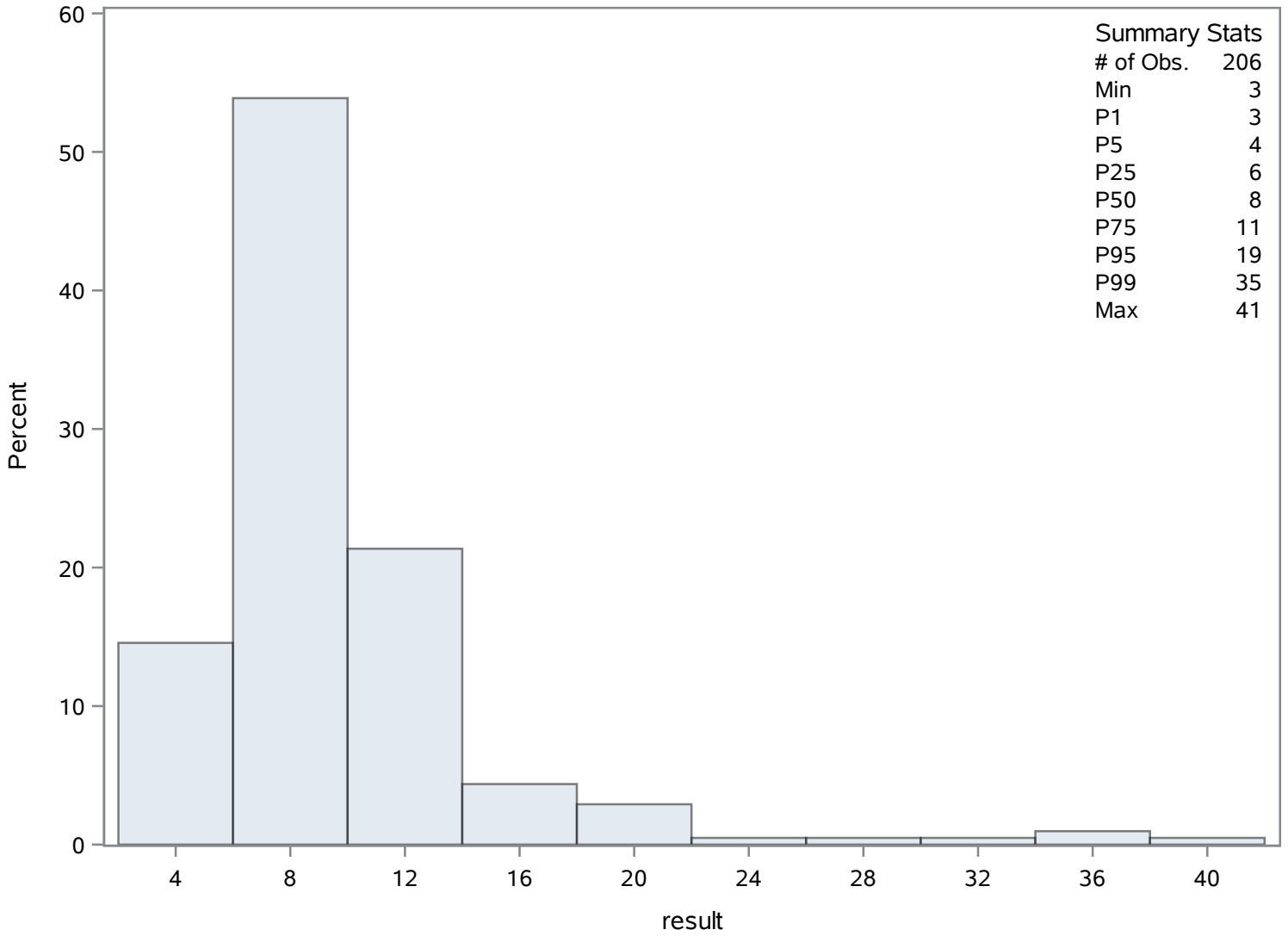
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 9 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	217	Sum Weights	217
Mean	20.9442396	Sum Observations	4544.9
Std Deviation	4.92016443	Variance	24.2080181
Skewness	-0.0410275	Kurtosis	0.41004199
Uncorrected SS	100418.407	Corrected SS	5228.9319
Coeff Variation	23.491731	Std Error Mean	0.33400253

Basic Statistical Measures			
Location		Variability	
Mean	20.94424	Std Deviation	4.92016
Median	21.00000	Variance	24.20802
Mode	15.00000	Range	29.56000
		Interquartile Range	6.34000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	62.70683	Pr > t 	<.0001
Sign	M	108.5	Pr >= M 	<.0001
Signed Rank	S	11826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	36.49
99%	33.40
95%	28.40
90%	26.60
75% Q3	24.54
50% Median	21.00
25% Q1	18.20
10%	14.73
5%	11.68

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	8.70
0% Min	6.93

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.93	1609	32.01	1585
8.41	1610	33.11	1596
8.70	1633	33.40	1597
10.00	1545	34.50	1573
10.00	1543	36.49	1635

Chassahowitzka River - Fixed Station

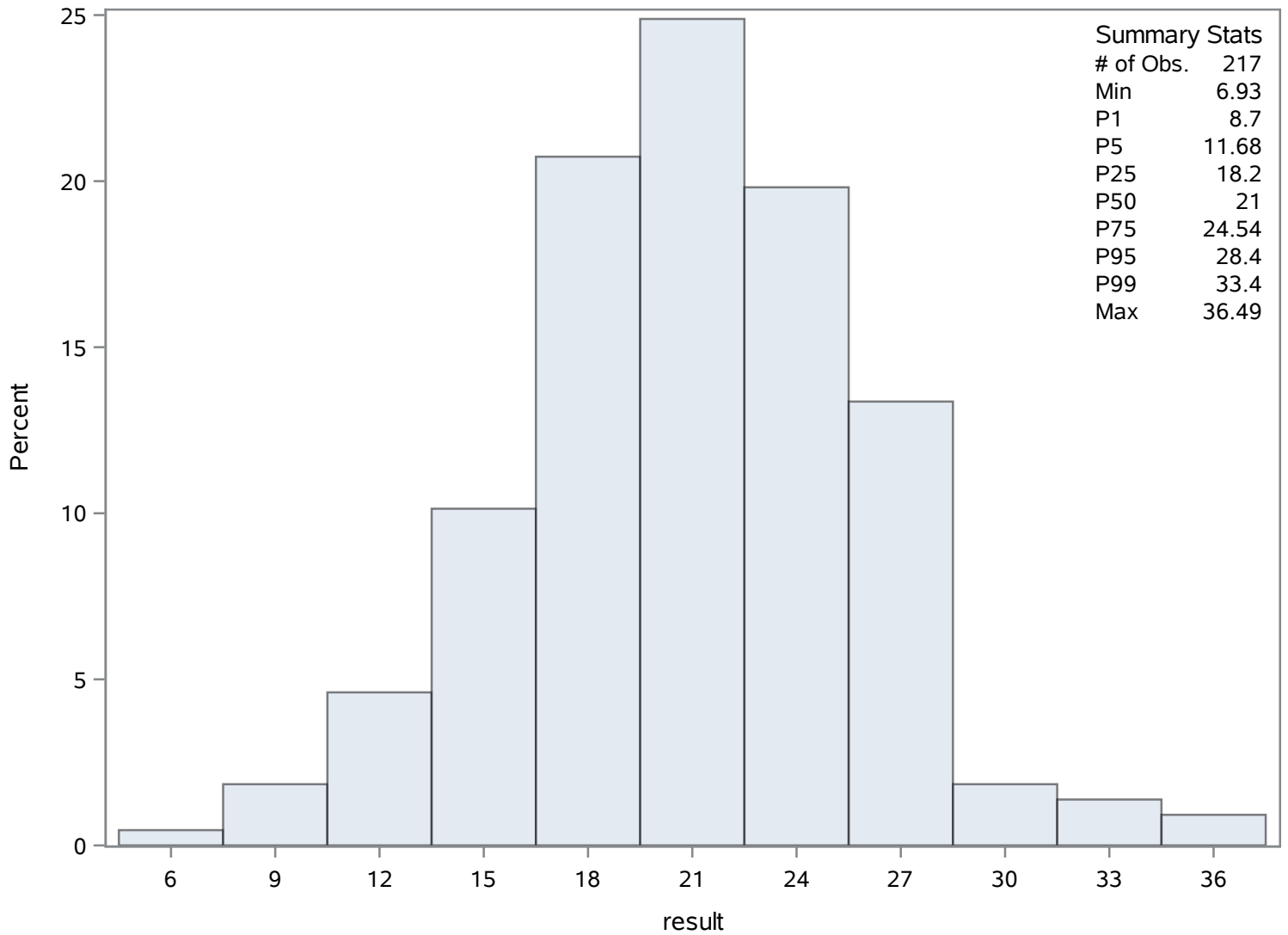
Source: COAST

Chassahowitzka Hernando 9

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	23	Sum Weights	23
Mean	1.13913043	Sum Observations	26.2
Std Deviation	0.34693349	Variance	0.12036285
Skewness	0.05115922	Kurtosis	-1.2309866
Uncorrected SS	32.4932	Corrected SS	2.64798261
Coeff Variation	30.4559933	Std Error Mean	0.07234063

Basic Statistical Measures			
Location		Variability	
Mean	1.139130	Std Deviation	0.34693
Median	1.200000	Variance	0.12036
Mode	0.700000	Range	1.10000
		Interquartile Range	0.61000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.74676	Pr > t 	<.0001
Sign	M	11.5	Pr >= M 	<.0001
Signed Rank	S	138	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.70
99%	1.70
95%	1.65
90%	1.64
75% Q3	1.41
50% Median	1.20
25% Q1	0.80
10%	0.70
5%	0.70

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.60
0% Min	0.60

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	1756	1.42	1771
0.70	1770	1.60	1772
0.70	1759	1.64	1775
0.70	1755	1.65	1768
0.73	1774	1.70	1760

Chassahowitzka River - Fixed Station

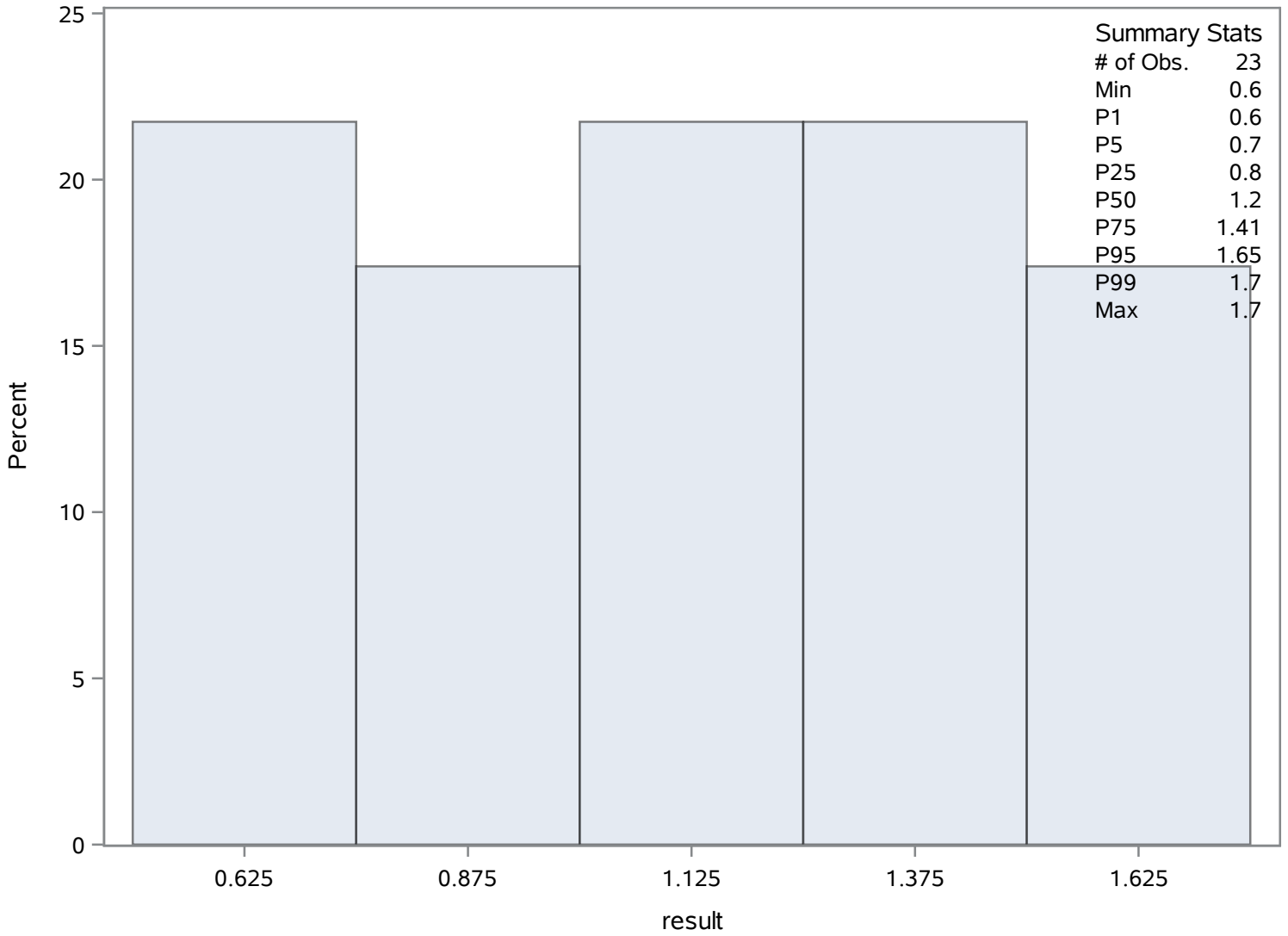
Source: COAST

Chassahowitzka Hernando 9

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	23.4097222	Sum Observations	5056.5
Std Deviation	5.94058449	Variance	35.2905441
Skewness	-0.4654038	Kurtosis	-0.7560579
Uncorrected SS	125958.727	Corrected SS	7587.46698
Coeff Variation	25.3765698	Std Error Mean	0.40420558

Basic Statistical Measures			
Location		Variability	
Mean	23.40972	Std Deviation	5.94058
Median	24.30000	Variance	35.29054
Mode	23.20000	Range	23.98000
		Interquartile Range	9.79000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	57.91539	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.690
99%	32.050
95%	31.120
90%	30.490
75% Q3	28.535
50% Median	24.300
25% Q1	18.745
10%	15.230
5%	13.220

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	9.340
0% Min	8.710

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.71	1938	31.93	1933
9.13	1819	31.99	1872
9.34	1937	32.05	1897
9.70	1818	32.07	1837
10.50	1842	32.69	1931

Chassahowitzka River - Fixed Station

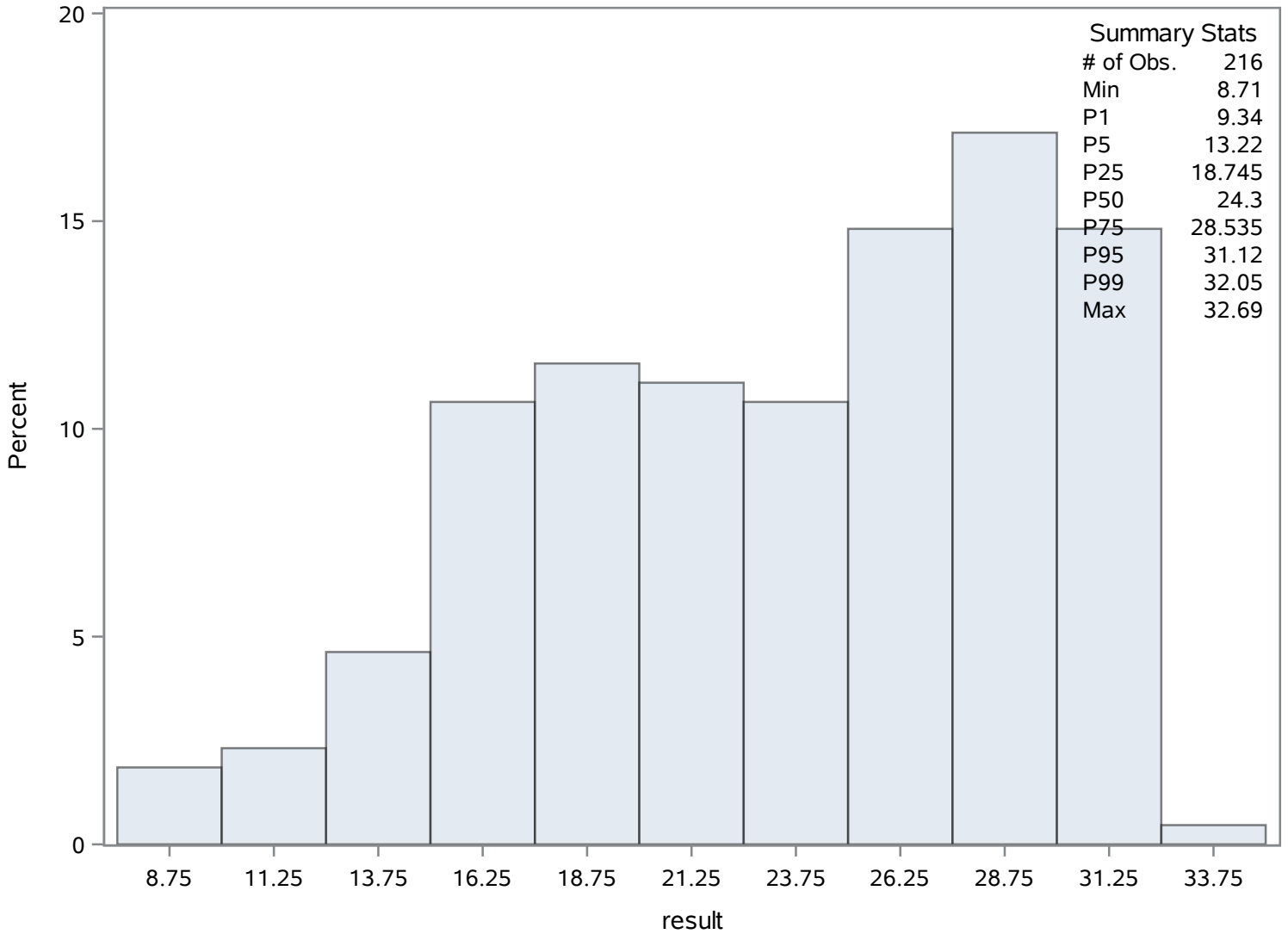
Source: COAST

Chassahowitzka Hernando 9

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	153	Sum Weights	153
Mean	8.05366013	Sum Observations	1232.21
Std Deviation	0.29007429	Variance	0.08414309
Skewness	-0.6549054	Kurtosis	2.67315494
Uncorrected SS	9936.5903	Corrected SS	12.7897503
Coeff Variation	3.60176971	Std Error Mean	0.02345112

Basic Statistical Measures			
Location		Variability	
Mean	8.053660	Std Deviation	0.29007
Median	8.090000	Variance	0.08414
Mode	7.980000	Range	2.13000
		Interquartile Range	0.30000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	343.4233	Pr > t 	<.0001
Sign	M	76.5	Pr >= M 	<.0001
Signed Rank	S	5890.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.98
99%	8.73
95%	8.50
90%	8.33
75% Q3	8.22
50% Median	8.09
25% Q1	7.92
10%	7.69
5%	7.60

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

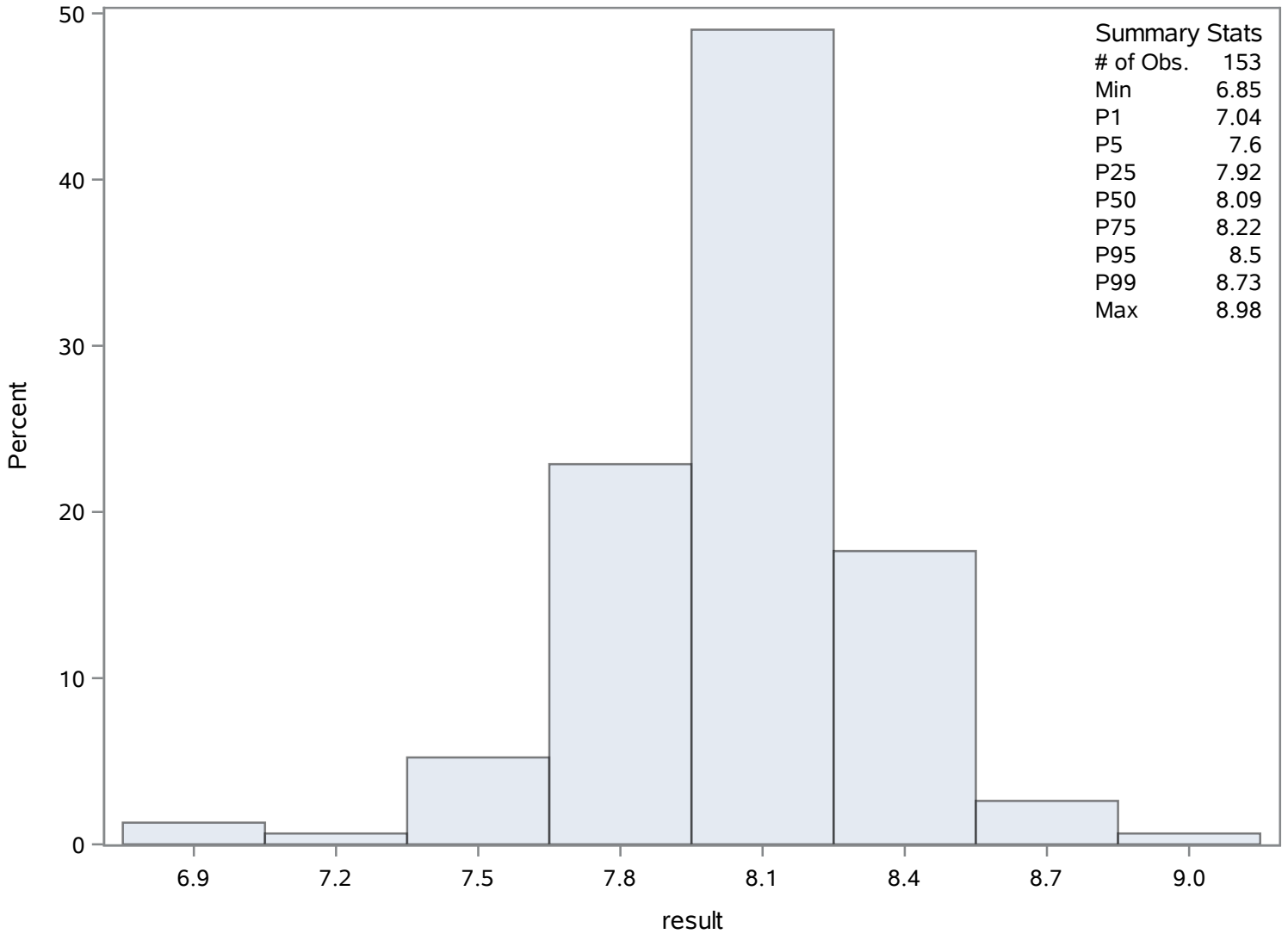
Quantiles (Definition 5)	
Level	Quantile
1%	7.04
0% Min	6.85

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.85	2063	8.60	2090
7.04	2064	8.64	1995
7.27	2105	8.67	2054
7.37	2088	8.73	1996
7.48	2092	8.98	1992

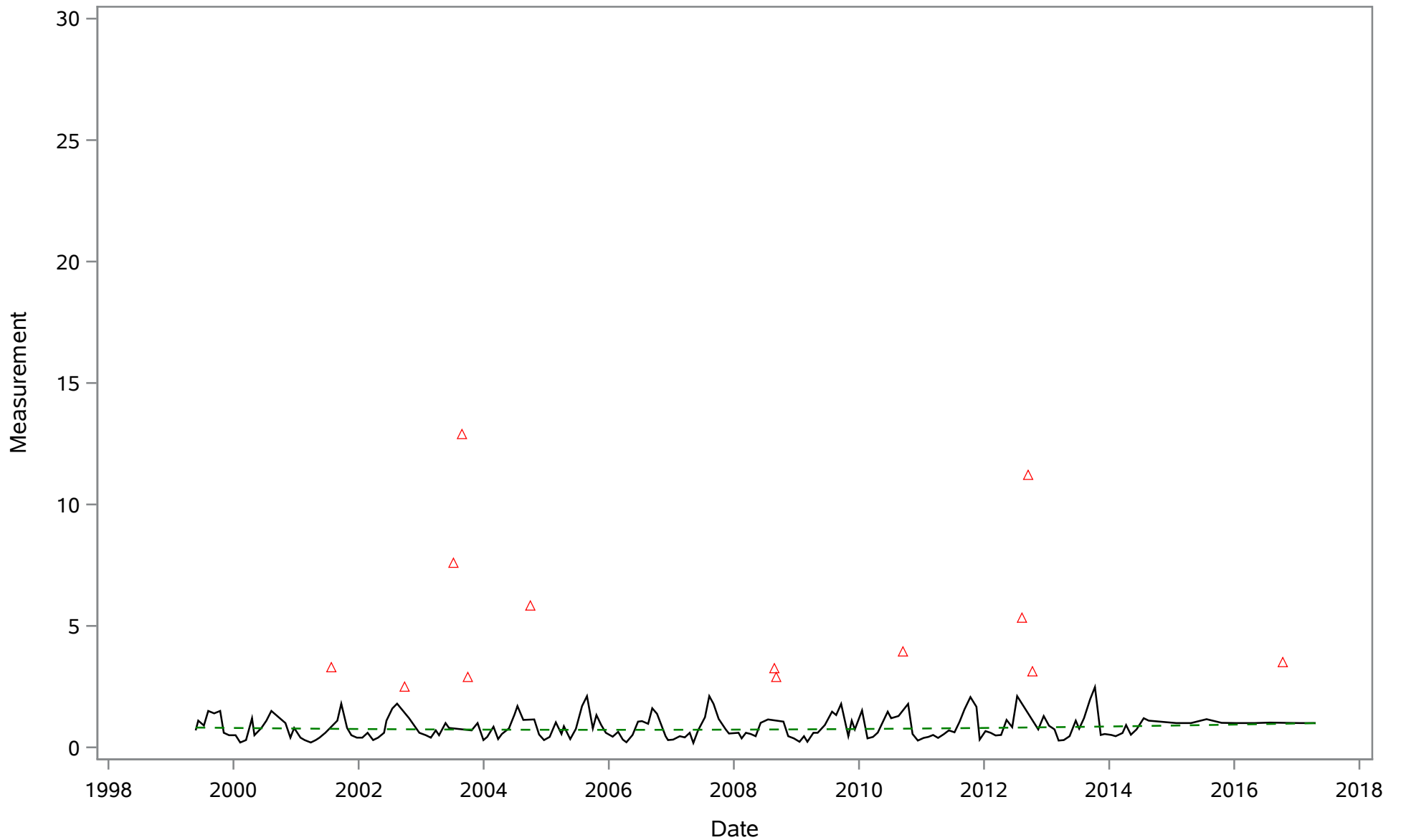
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

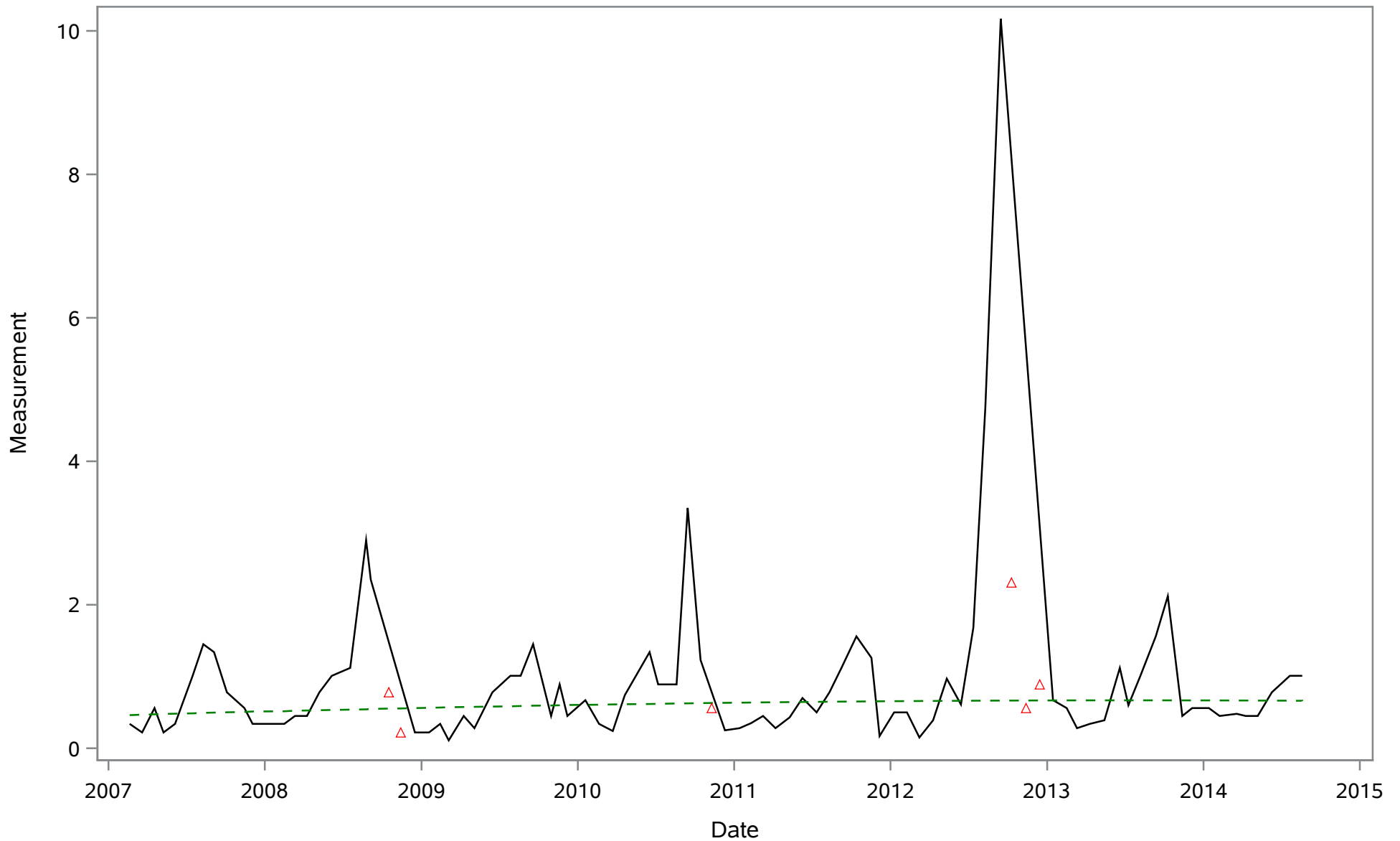


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll (Total) ug/L



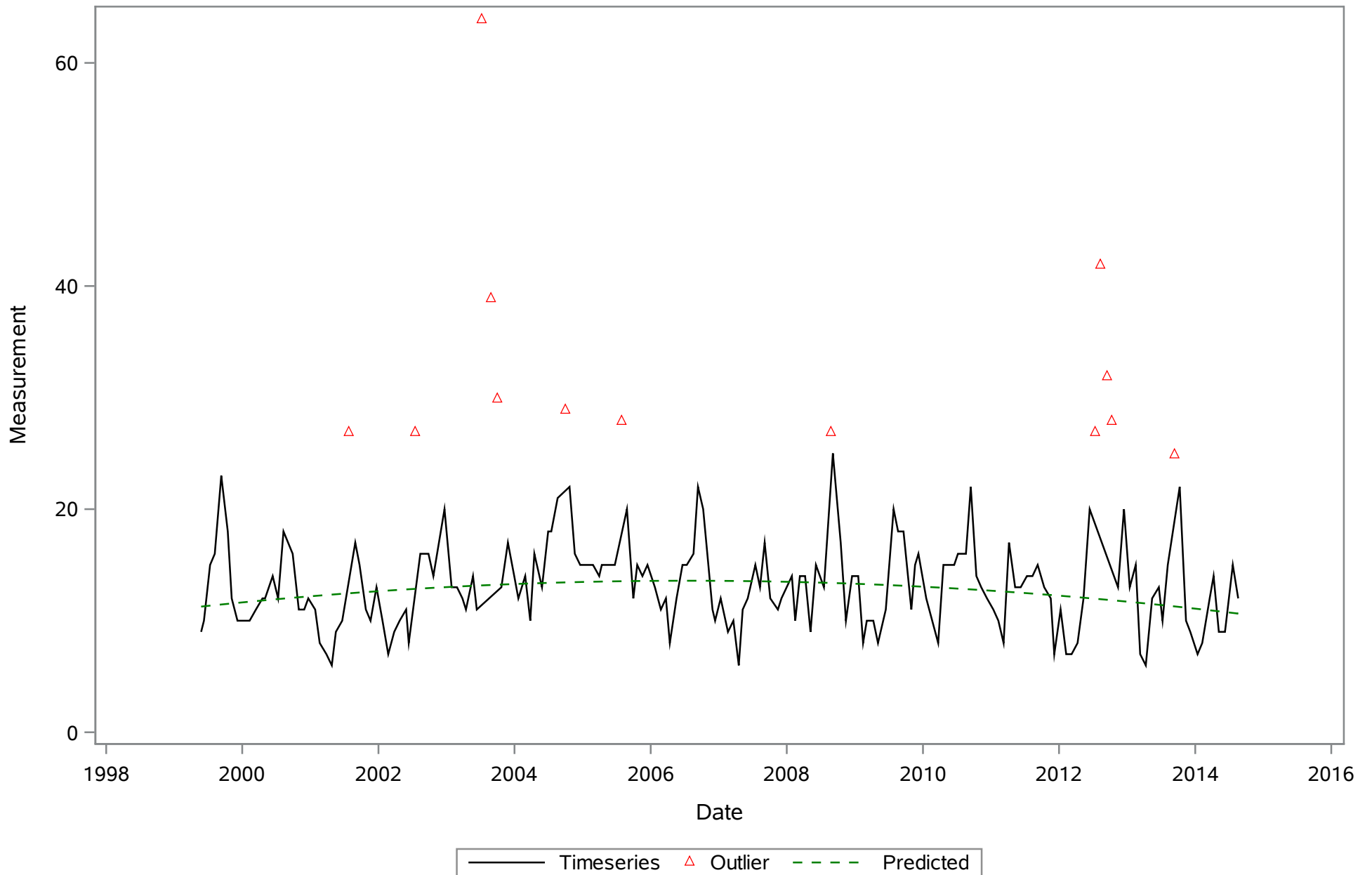
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll a (Total) ug/L

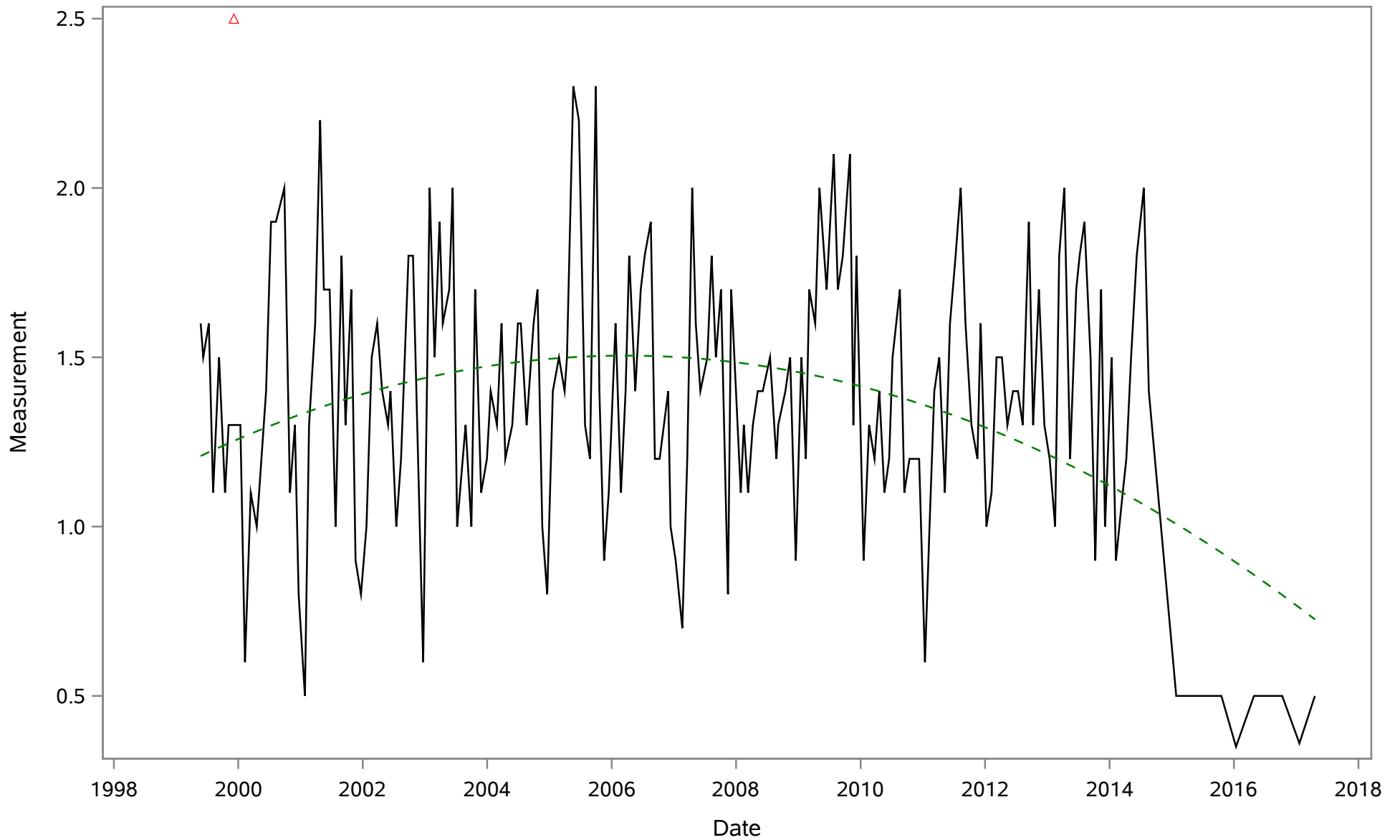


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Color (Total) PCU

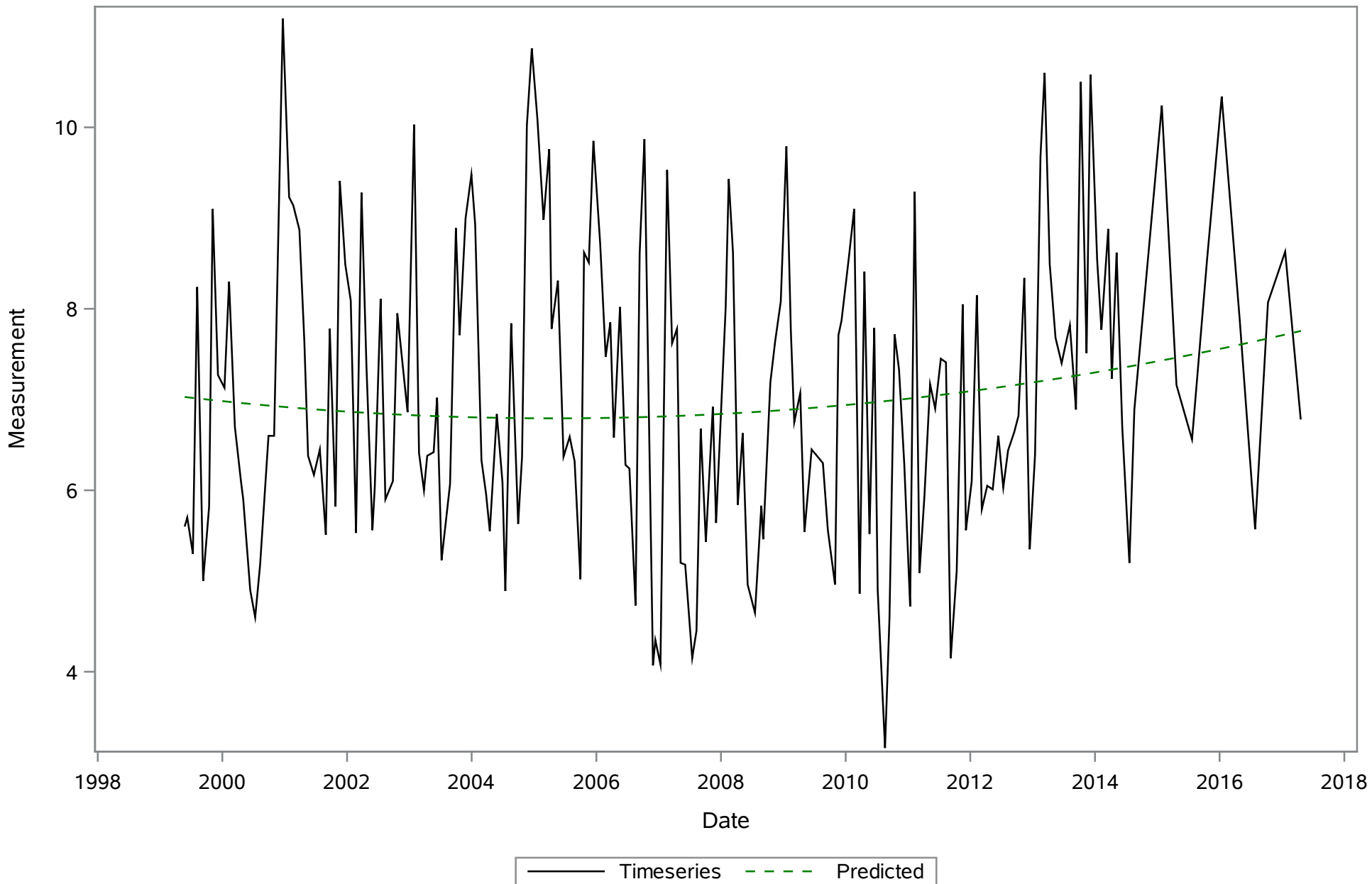


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Depth (Total) Meters

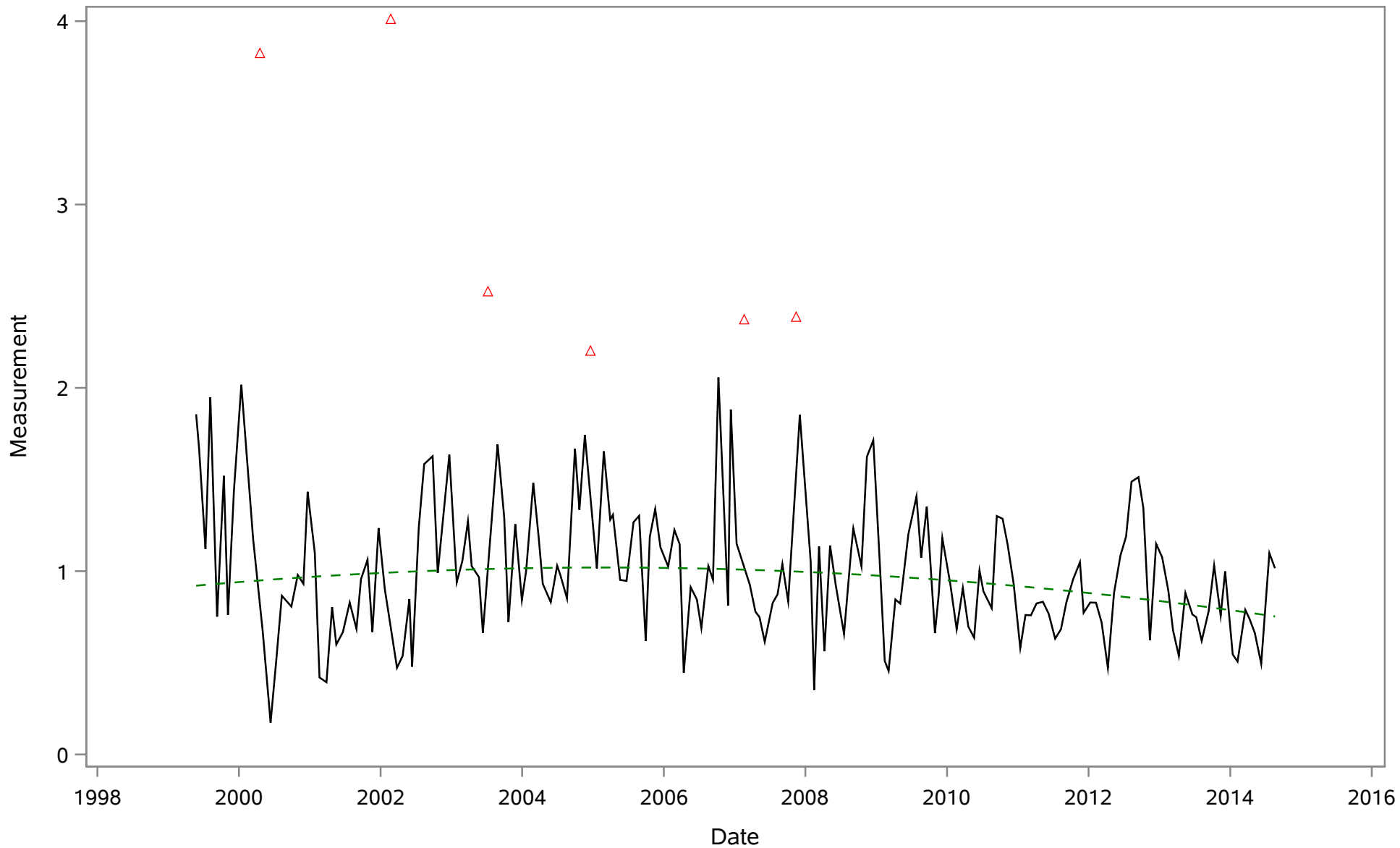


— Timeseries ▲ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Dissolved Oxygen (Total) mg/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Light, Attenuation Coefficient Kd/m



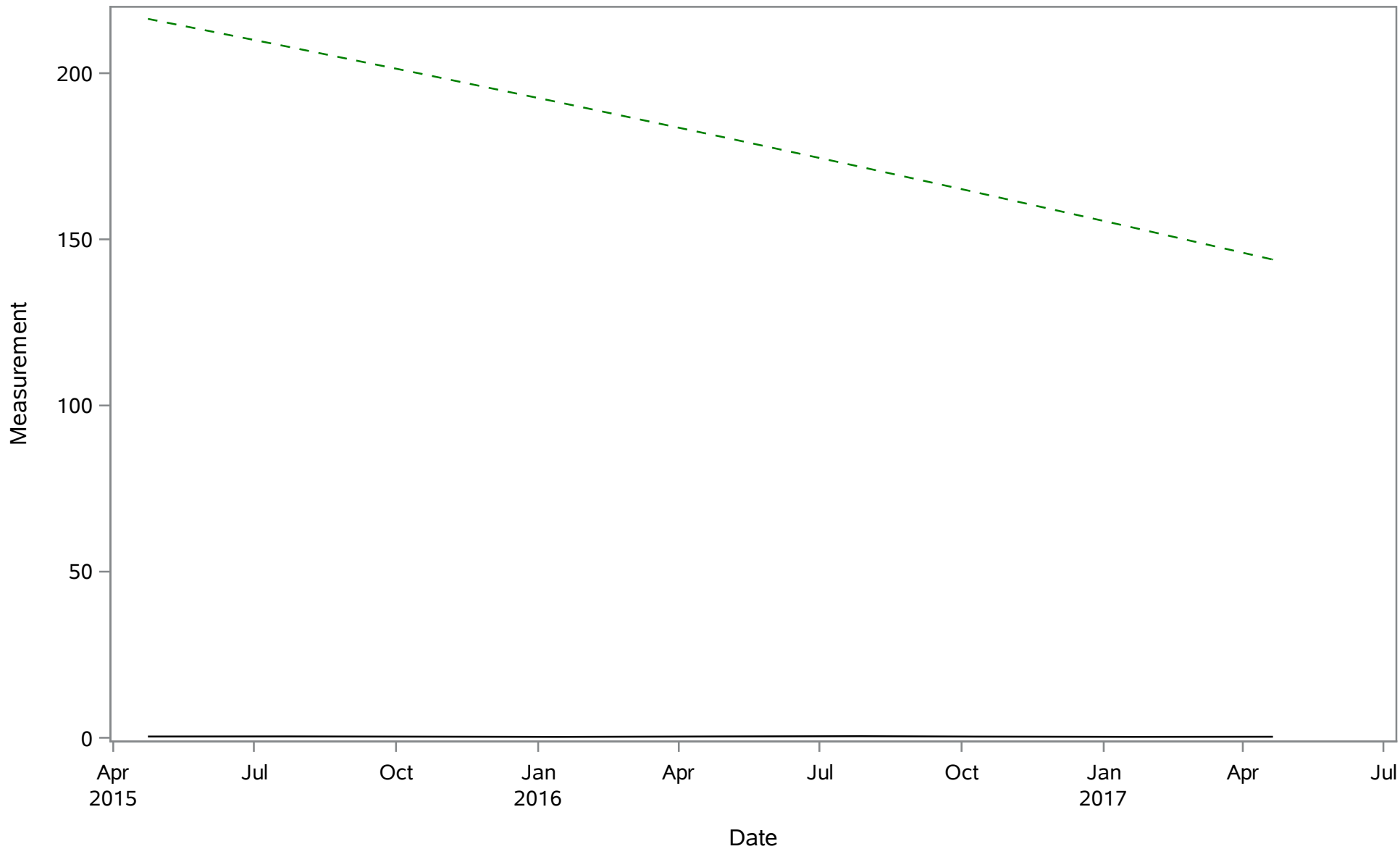
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Hernando 9

Nitrogen- Total (Total) mg/L



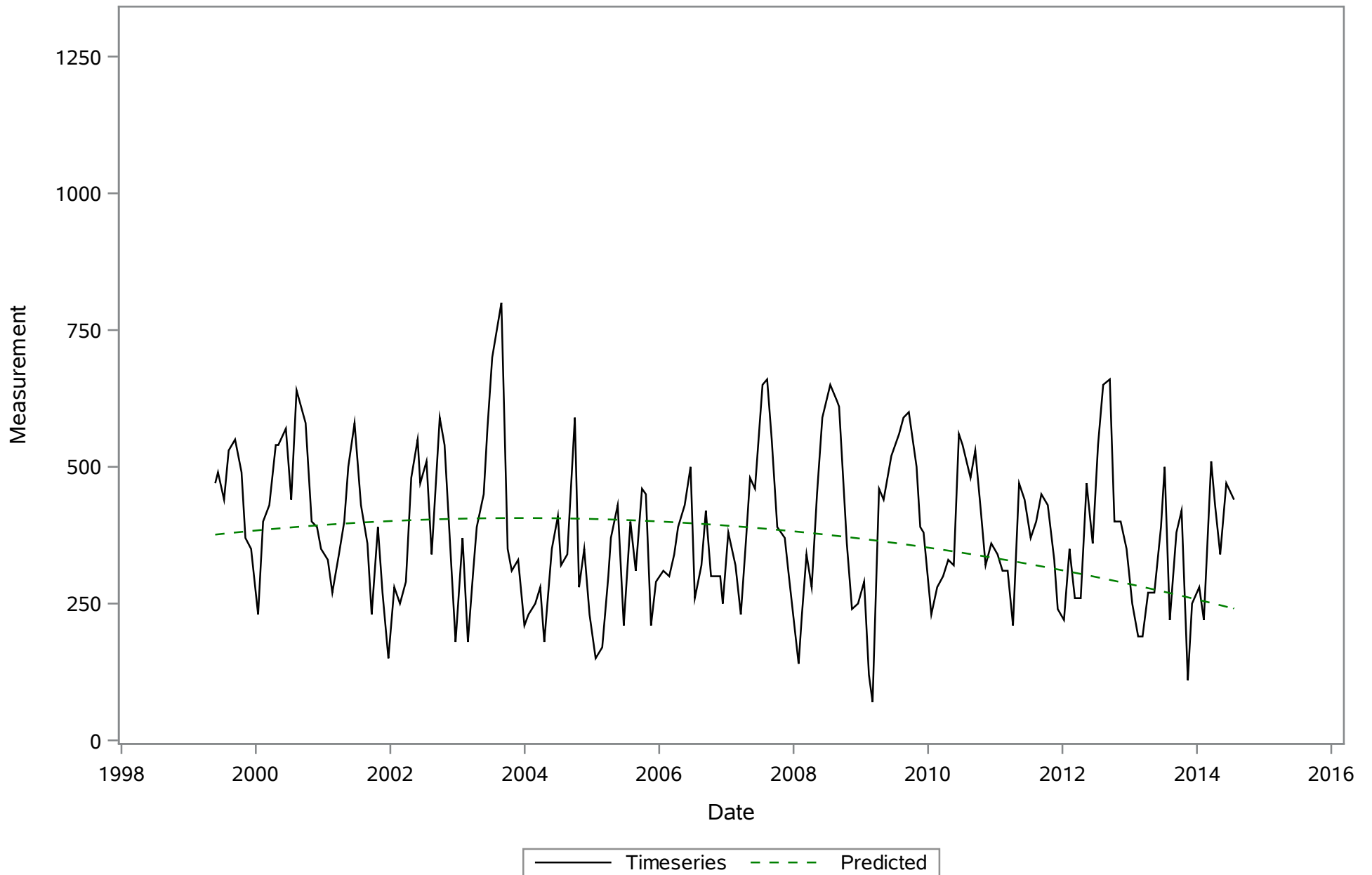
— Timeseries - - - Predicted

Chassahowitzka River - Fixed Station

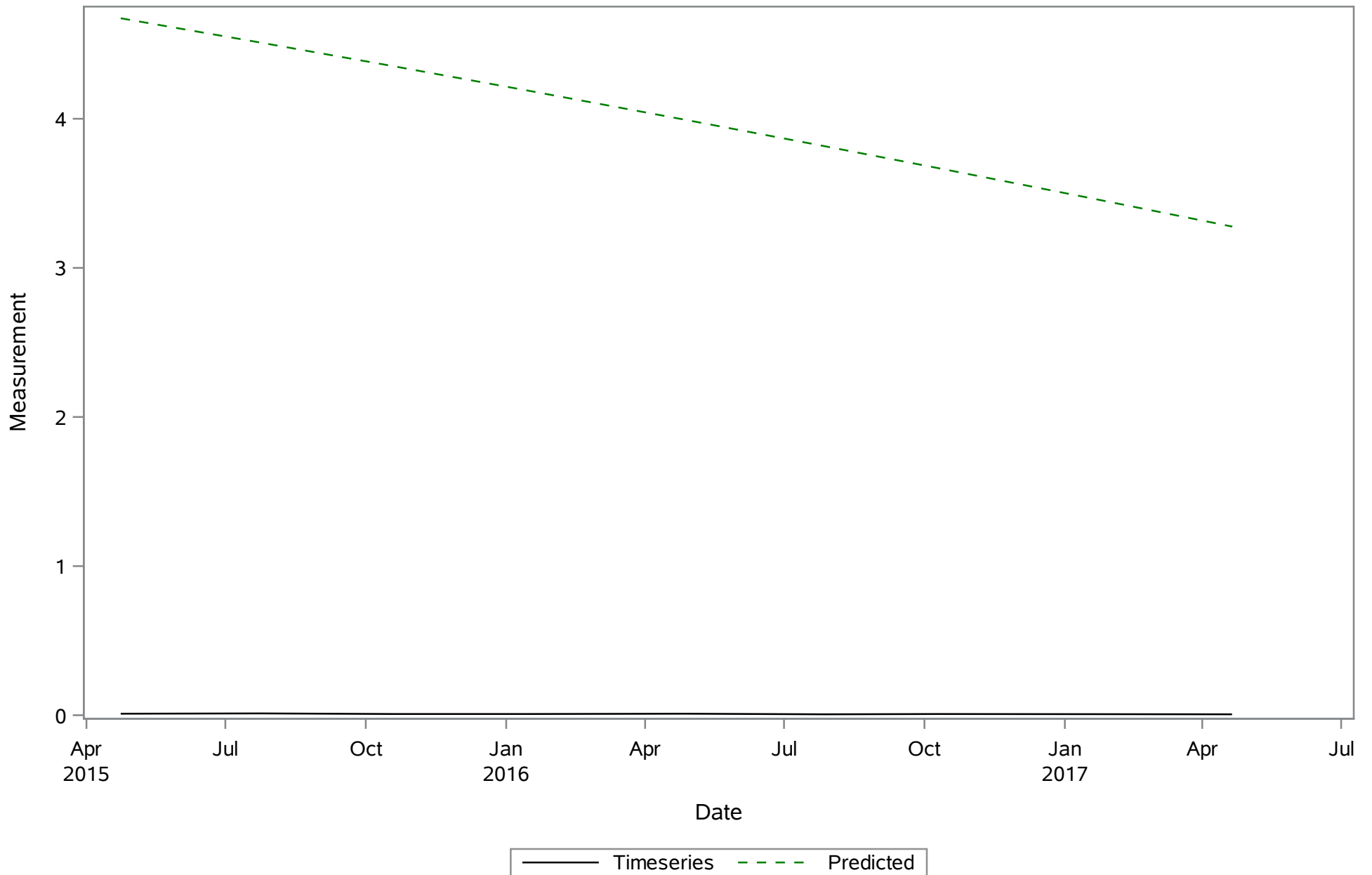
Source: COAST

Chassahowitzka Hernando 9

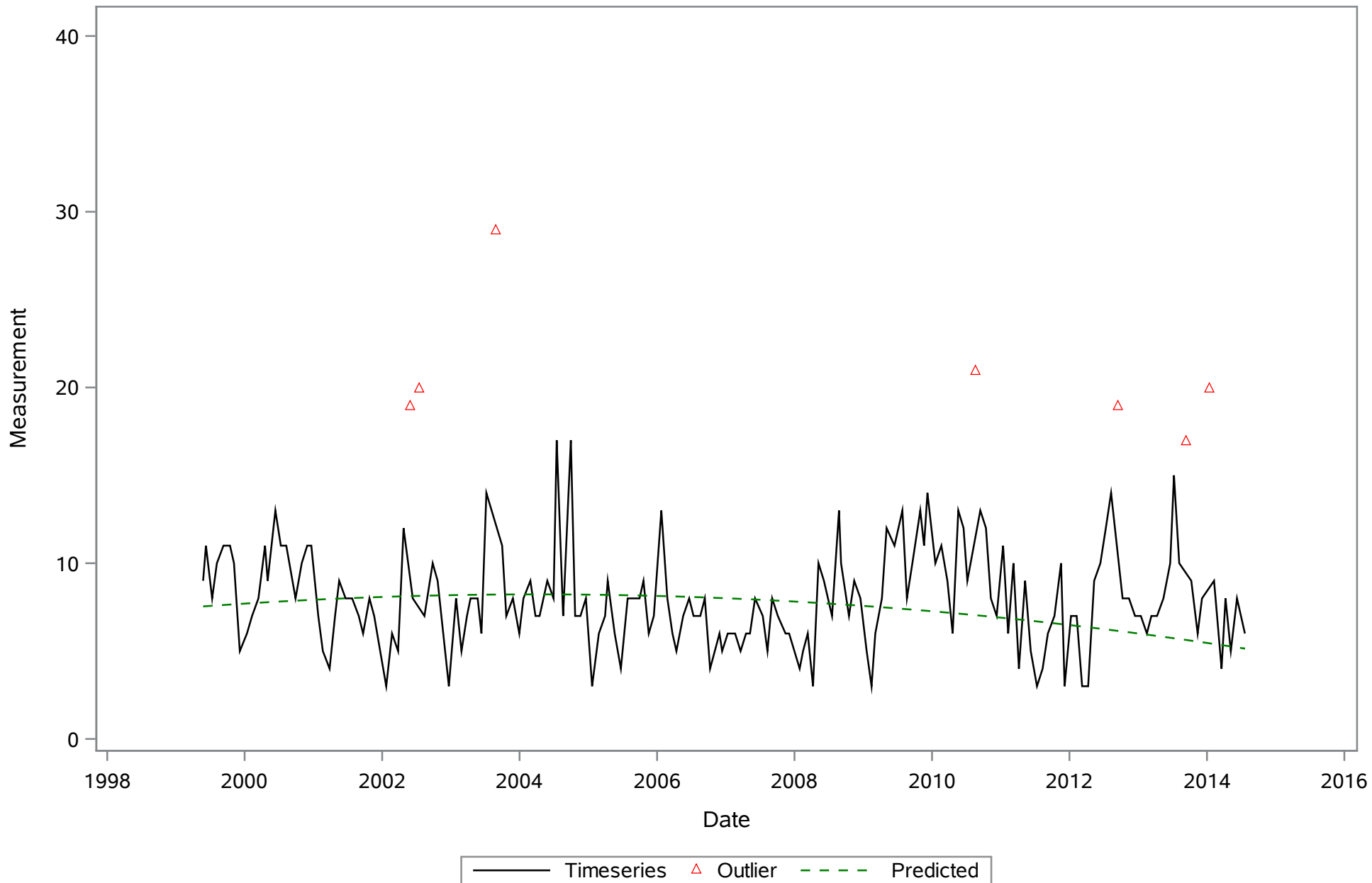
Nitrogen- Total (Total) ug/L



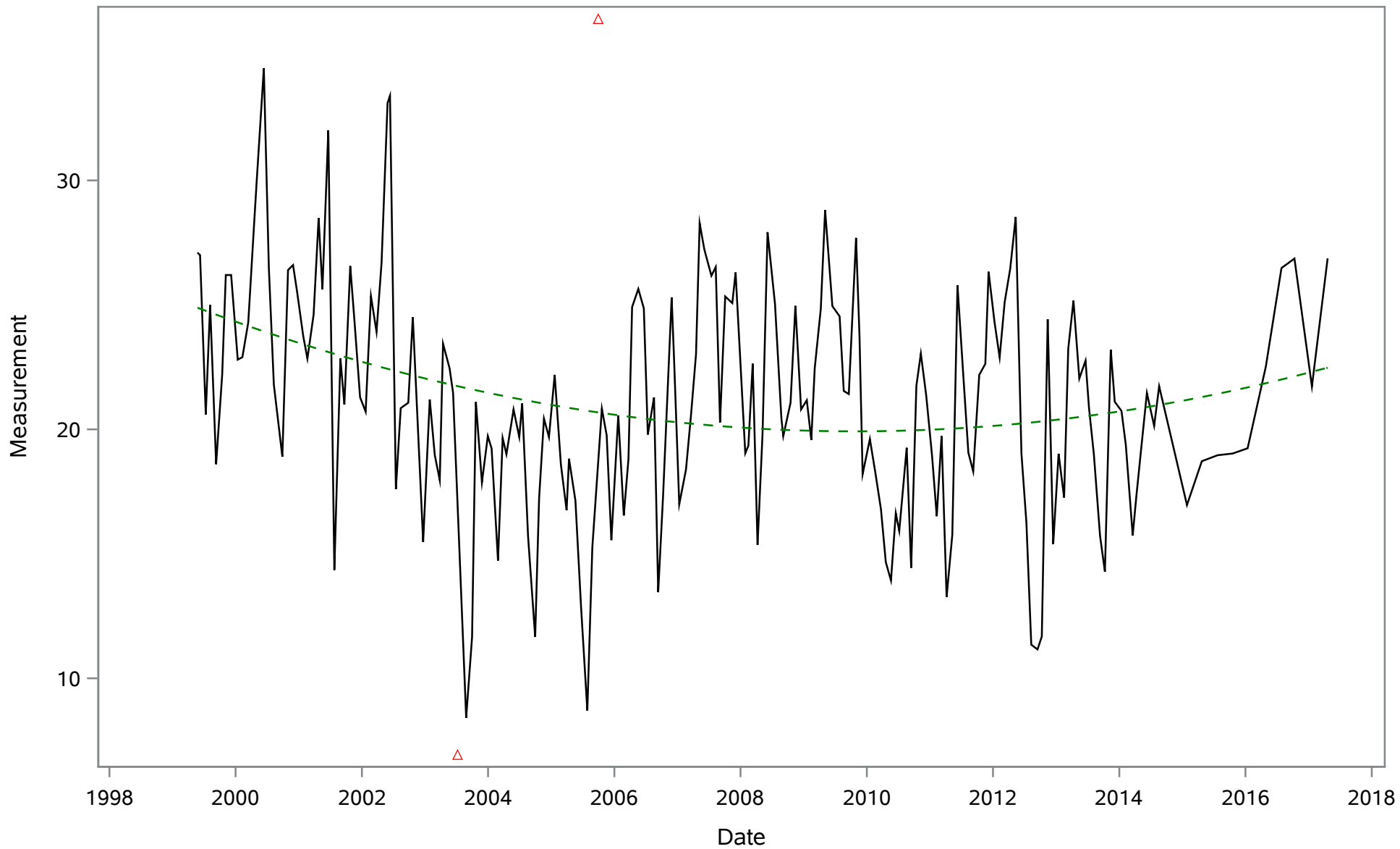
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) ug/L

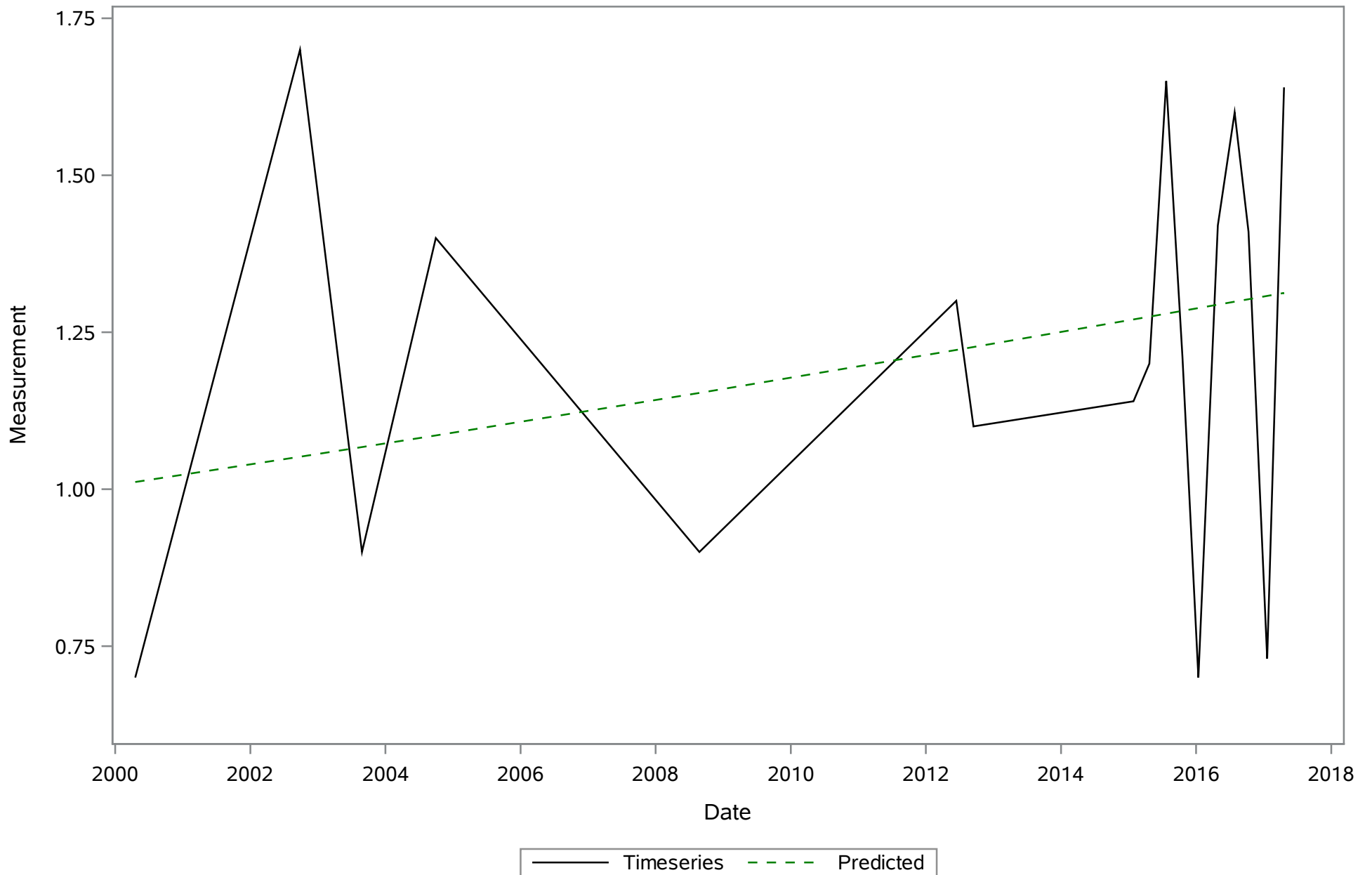


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Salinity (Total) ppt

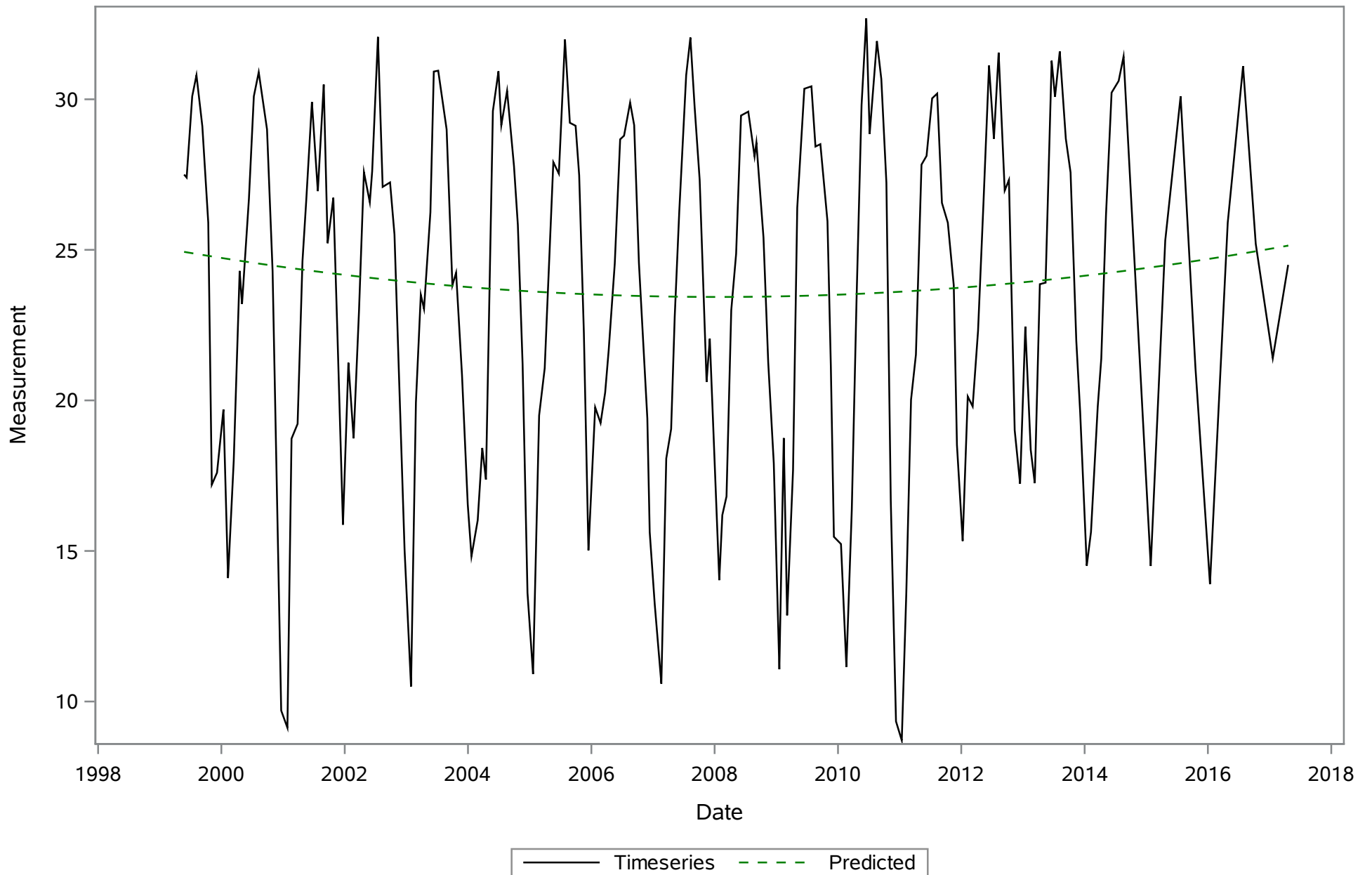


— Timeseries △ Outlier - - - Predicted

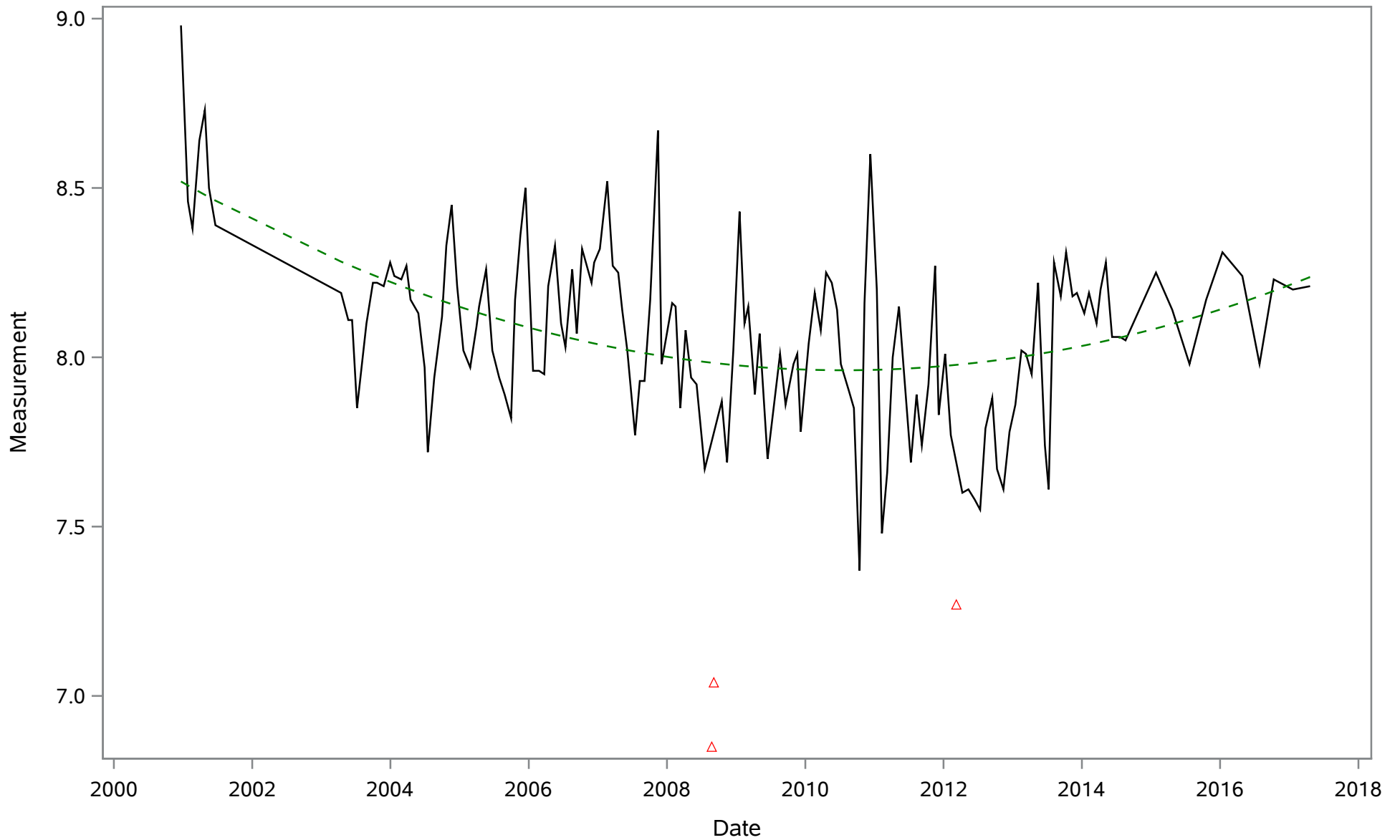
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Temperature (Total) Deg. C

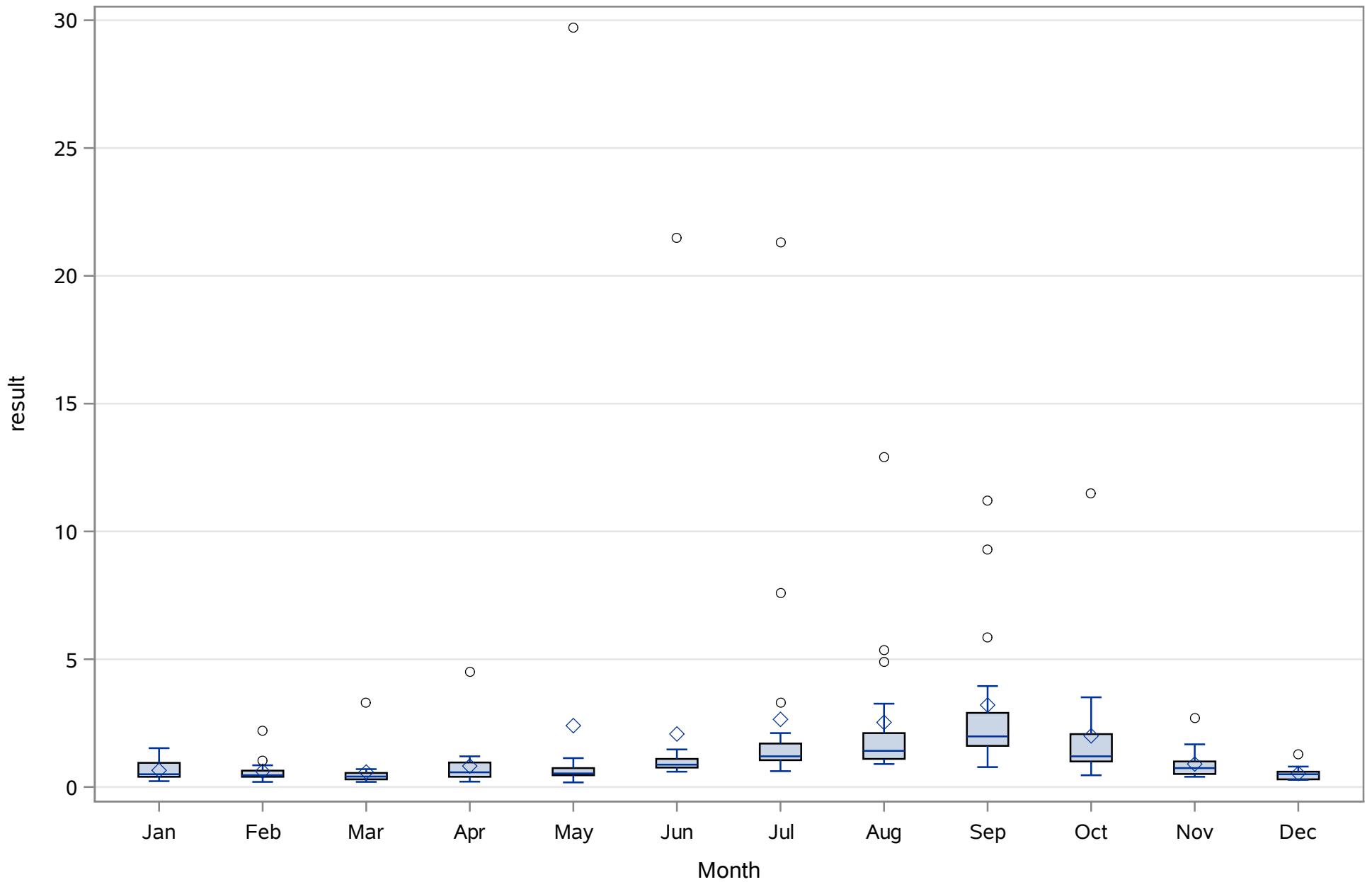


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
pH (Total) SU

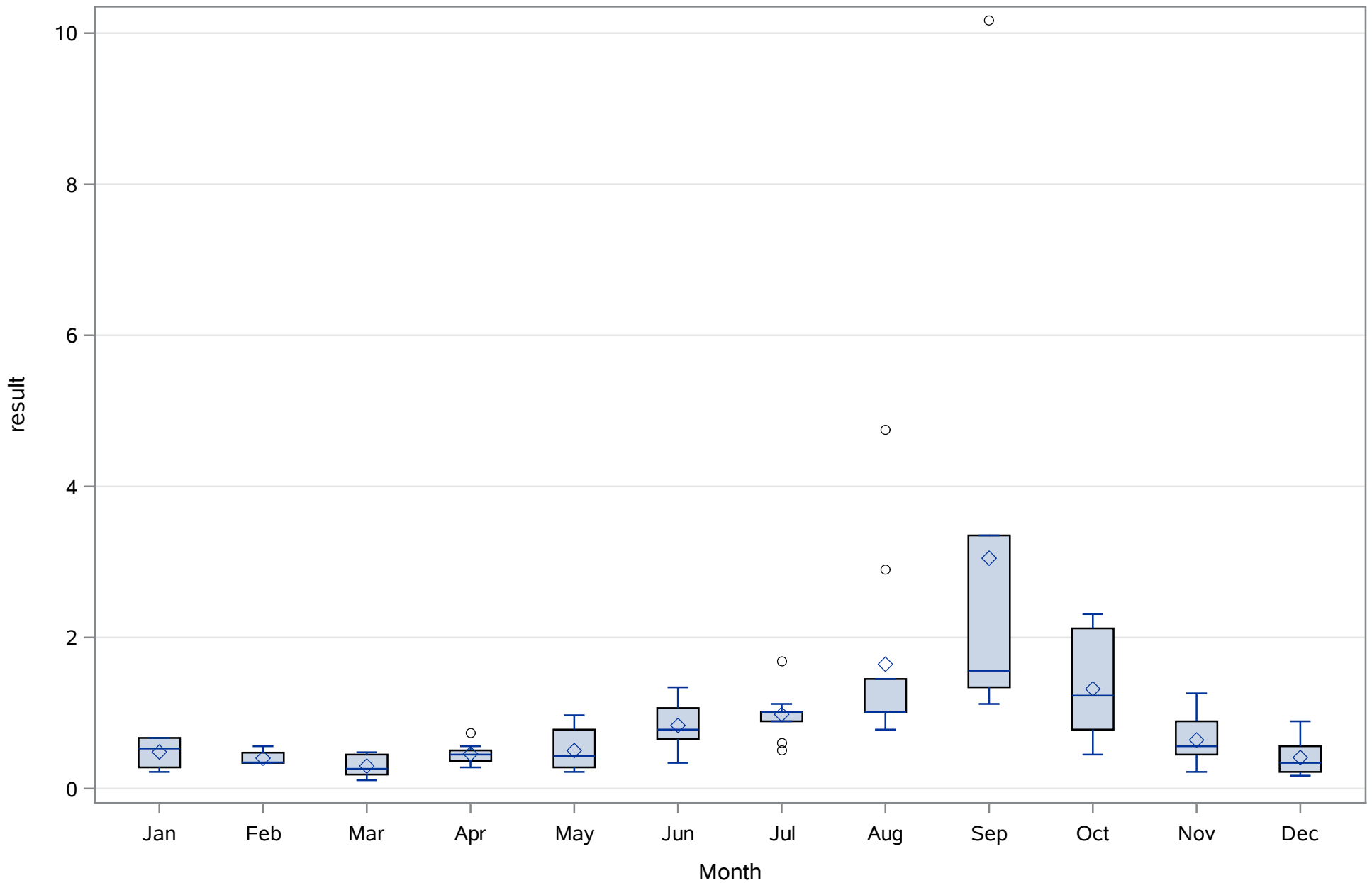


— Timeseries △ Outlier - - - Predicted

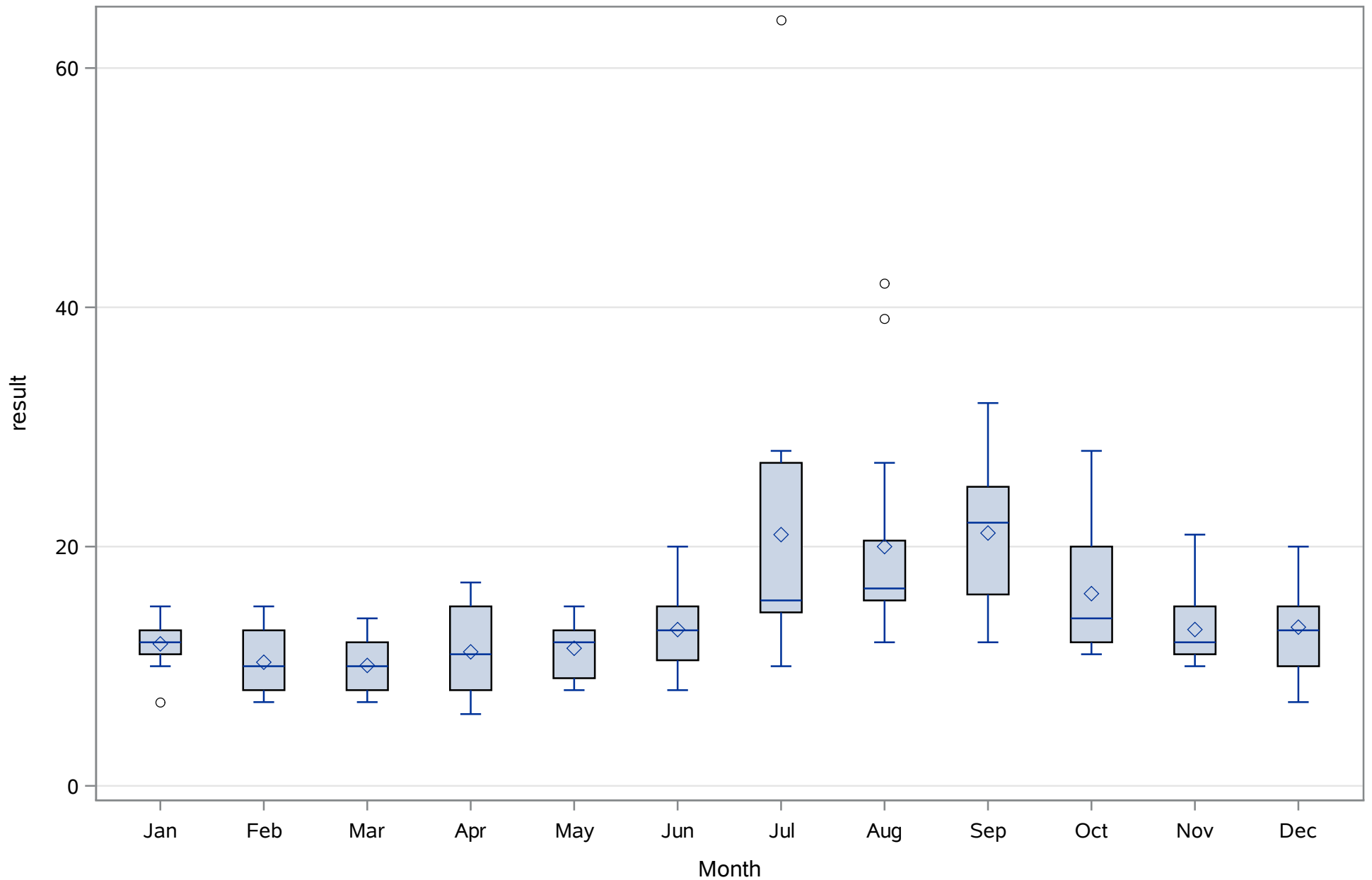
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll (Total) ug/L



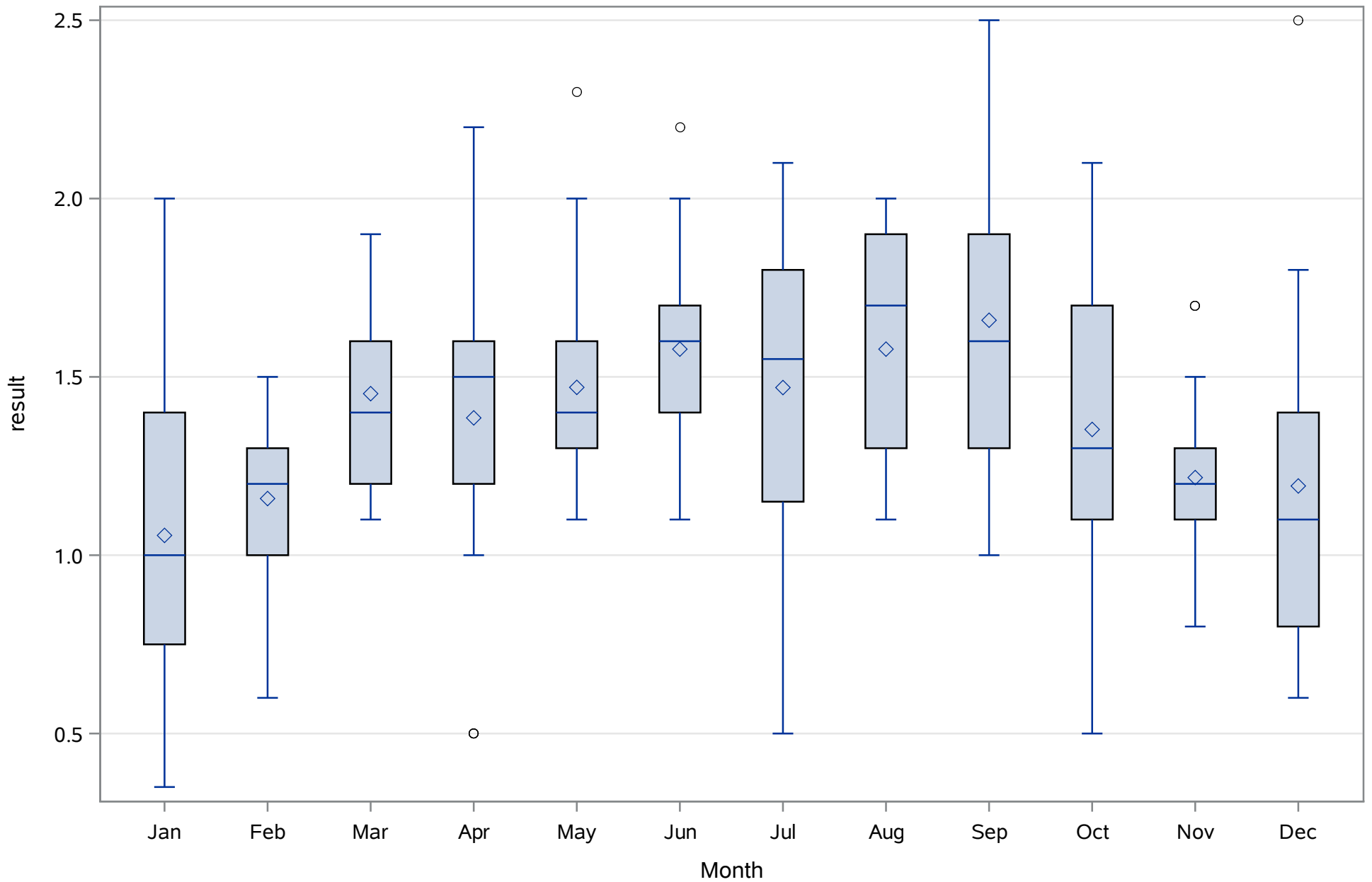
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Chlorophyll a (Total) ug/L



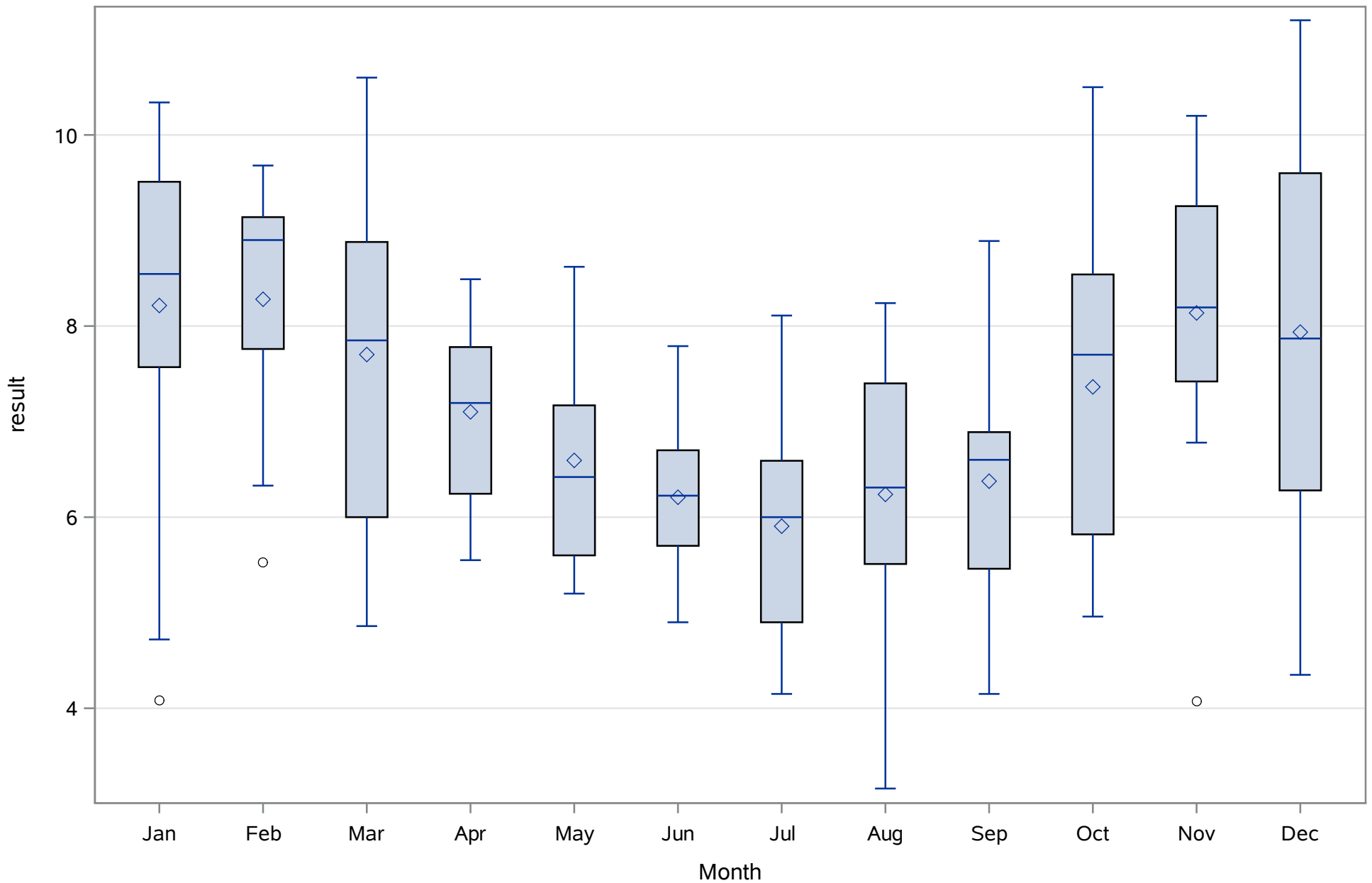
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Color (Total) PCU



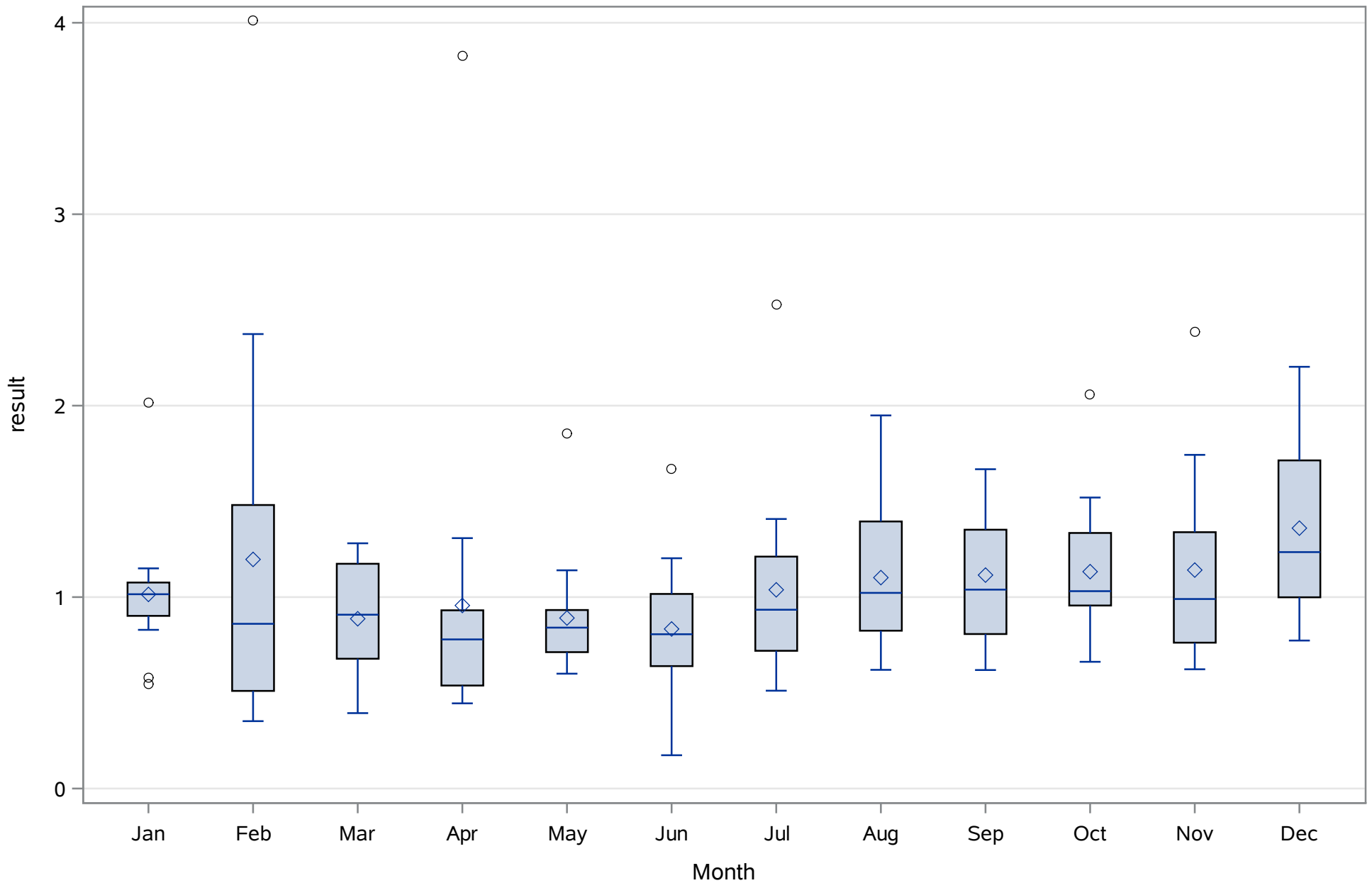
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Depth (Total) Meters



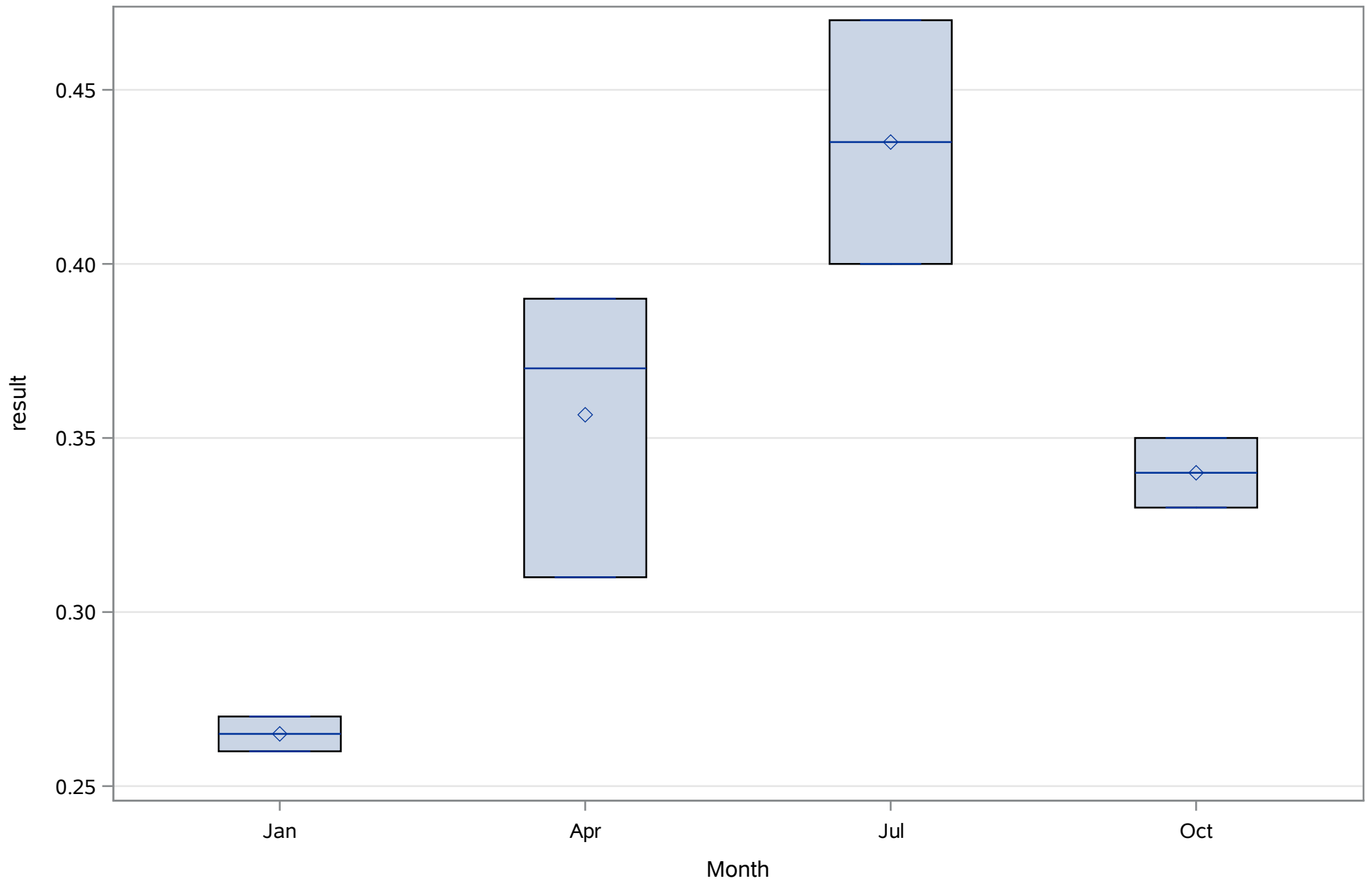
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Dissolved Oxygen (Total) mg/L



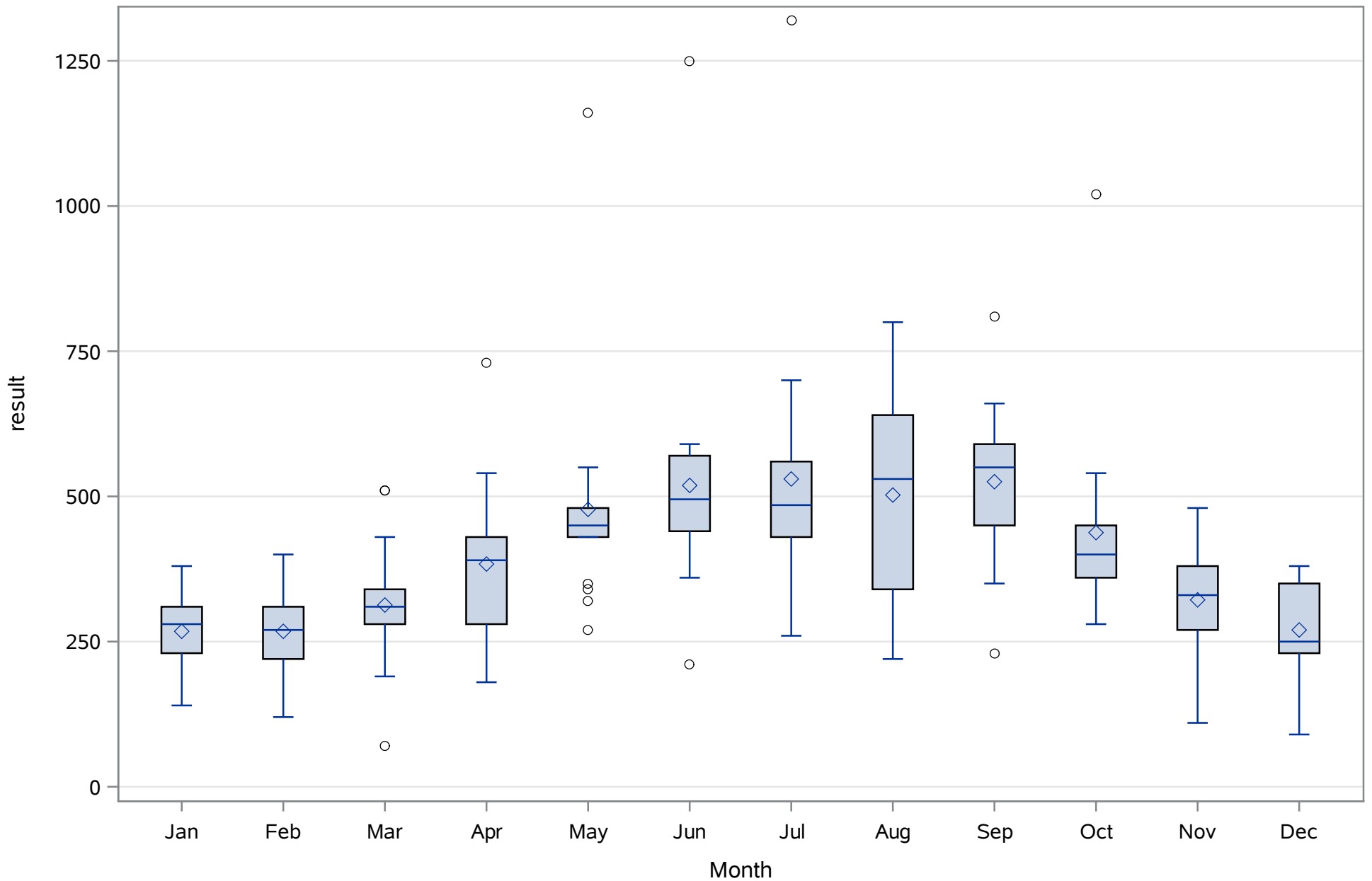
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Light, Attenuation Coefficient Kd/m



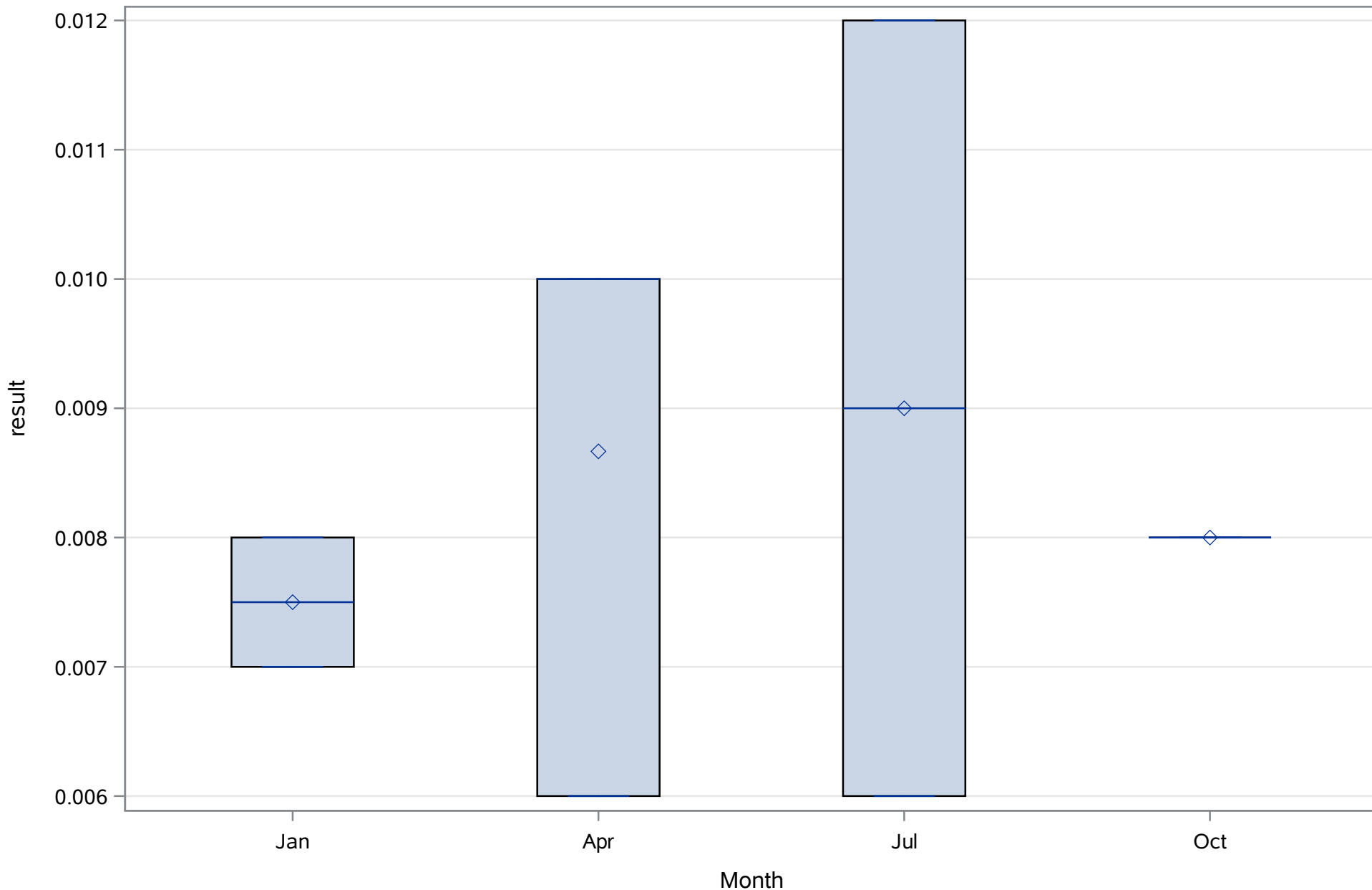
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Nitrogen- Total (Total) mg/L



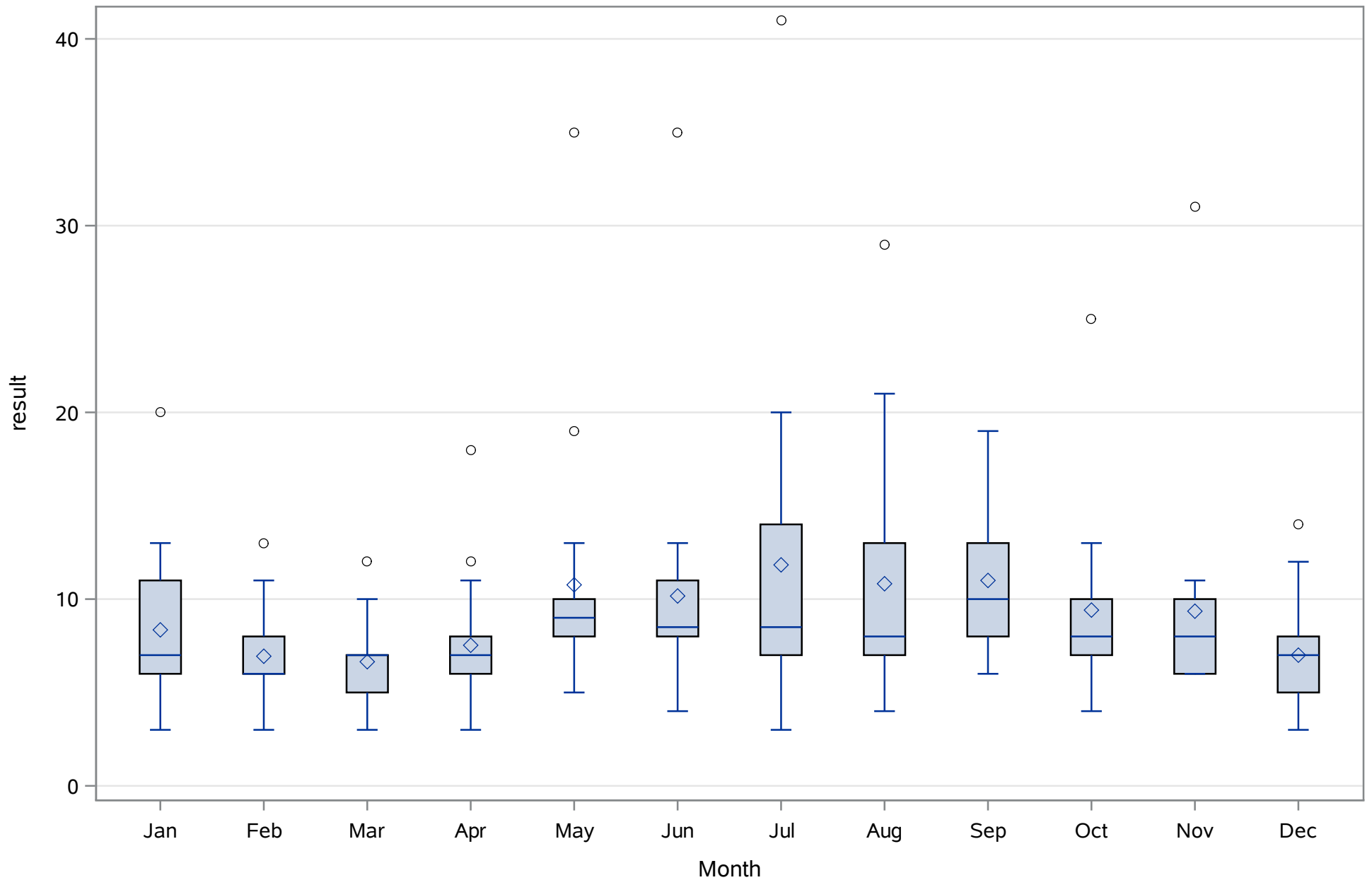
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Nitrogen- Total (Total) ug/L



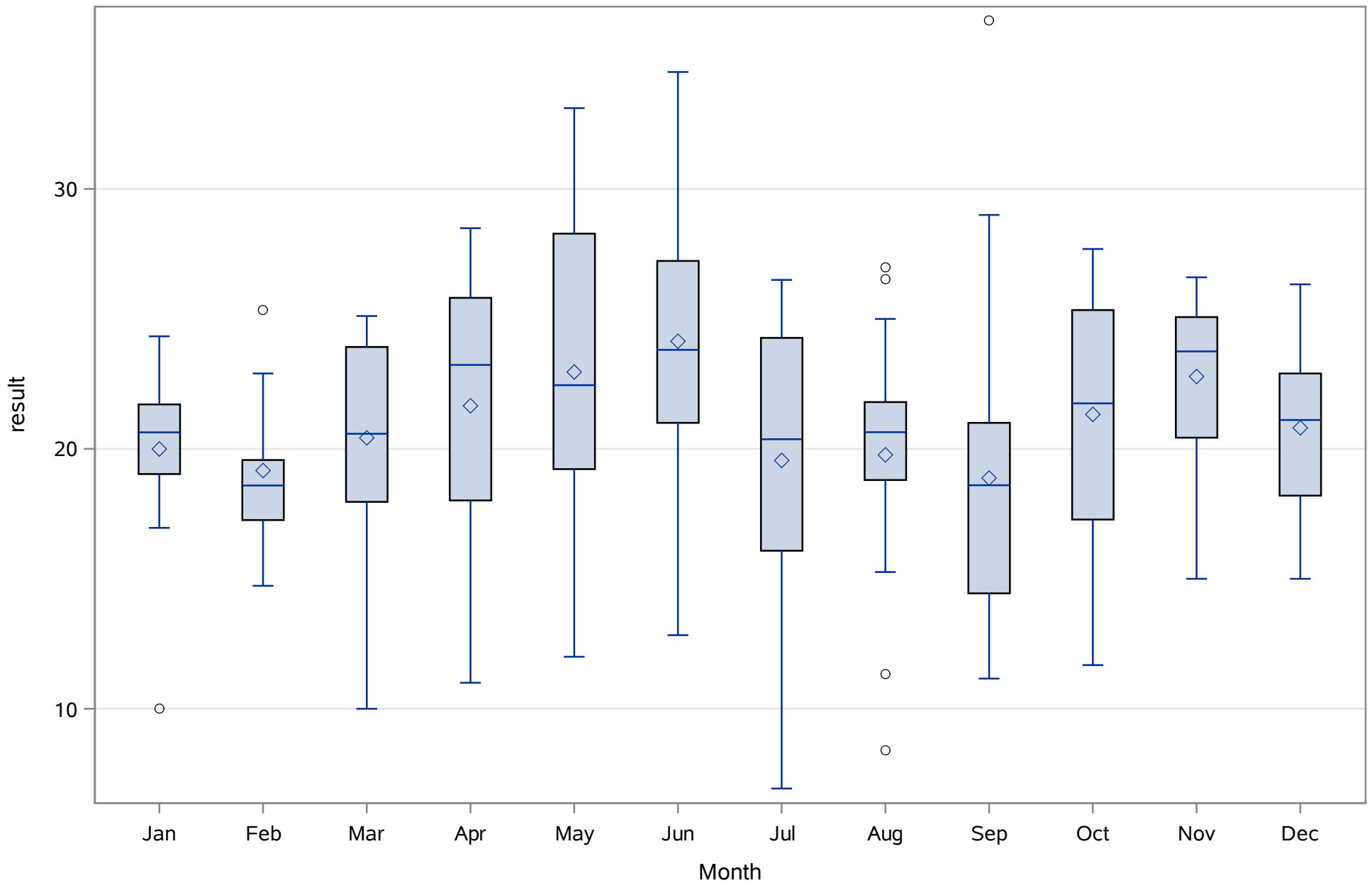
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) mg/L



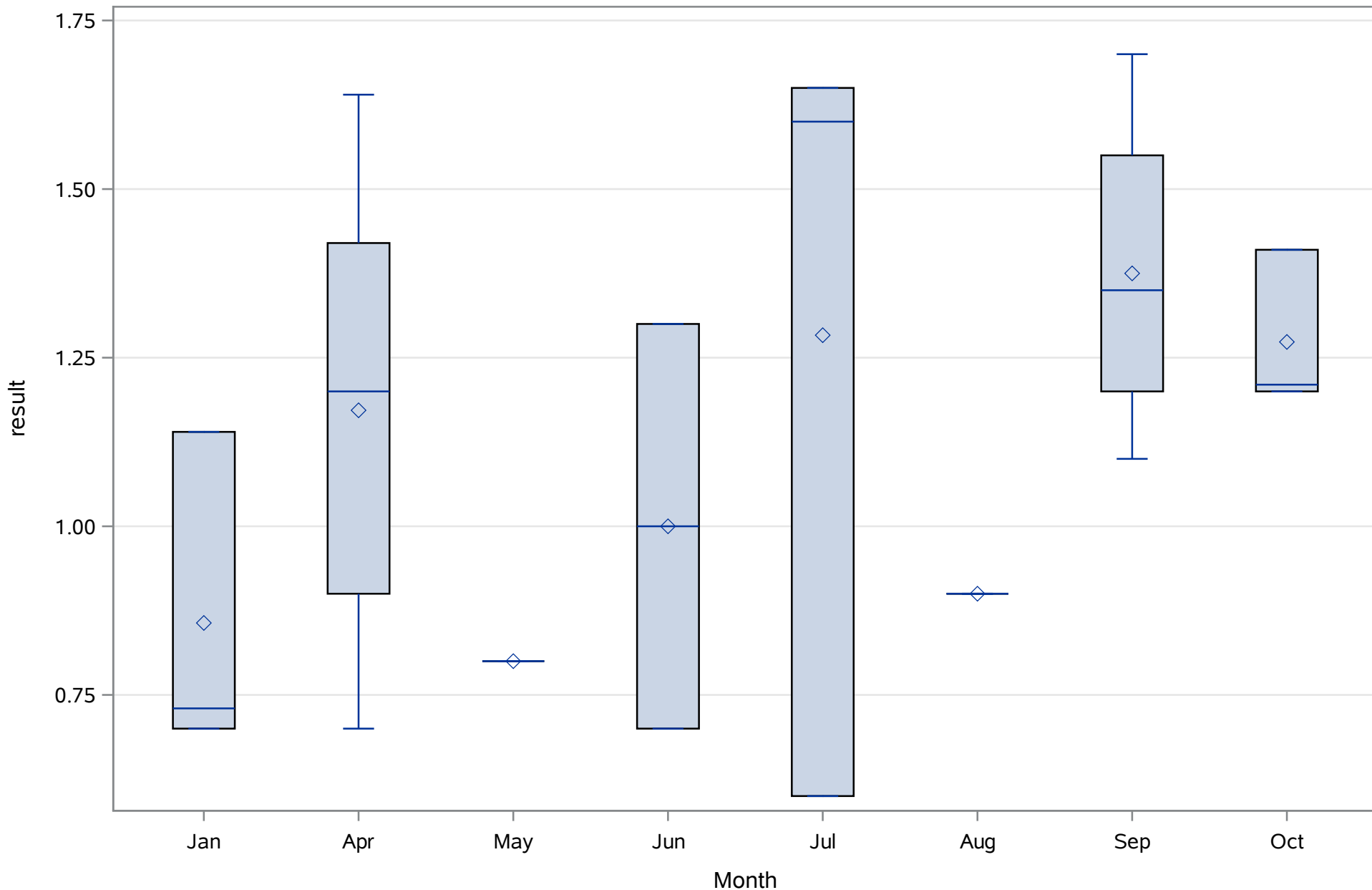
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Phosphorus- Total (Total) ug/L



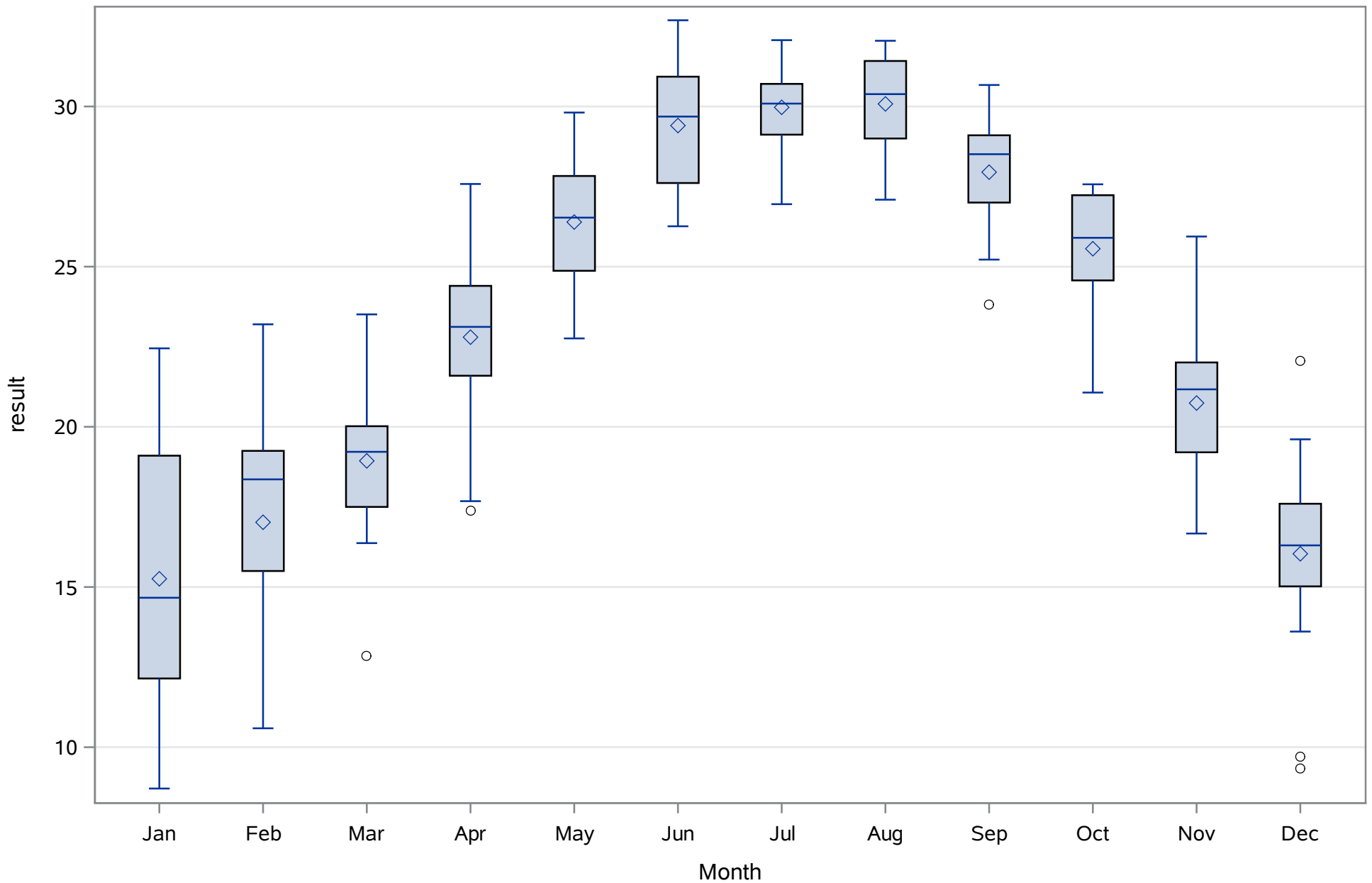
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Salinity (Total) ppth



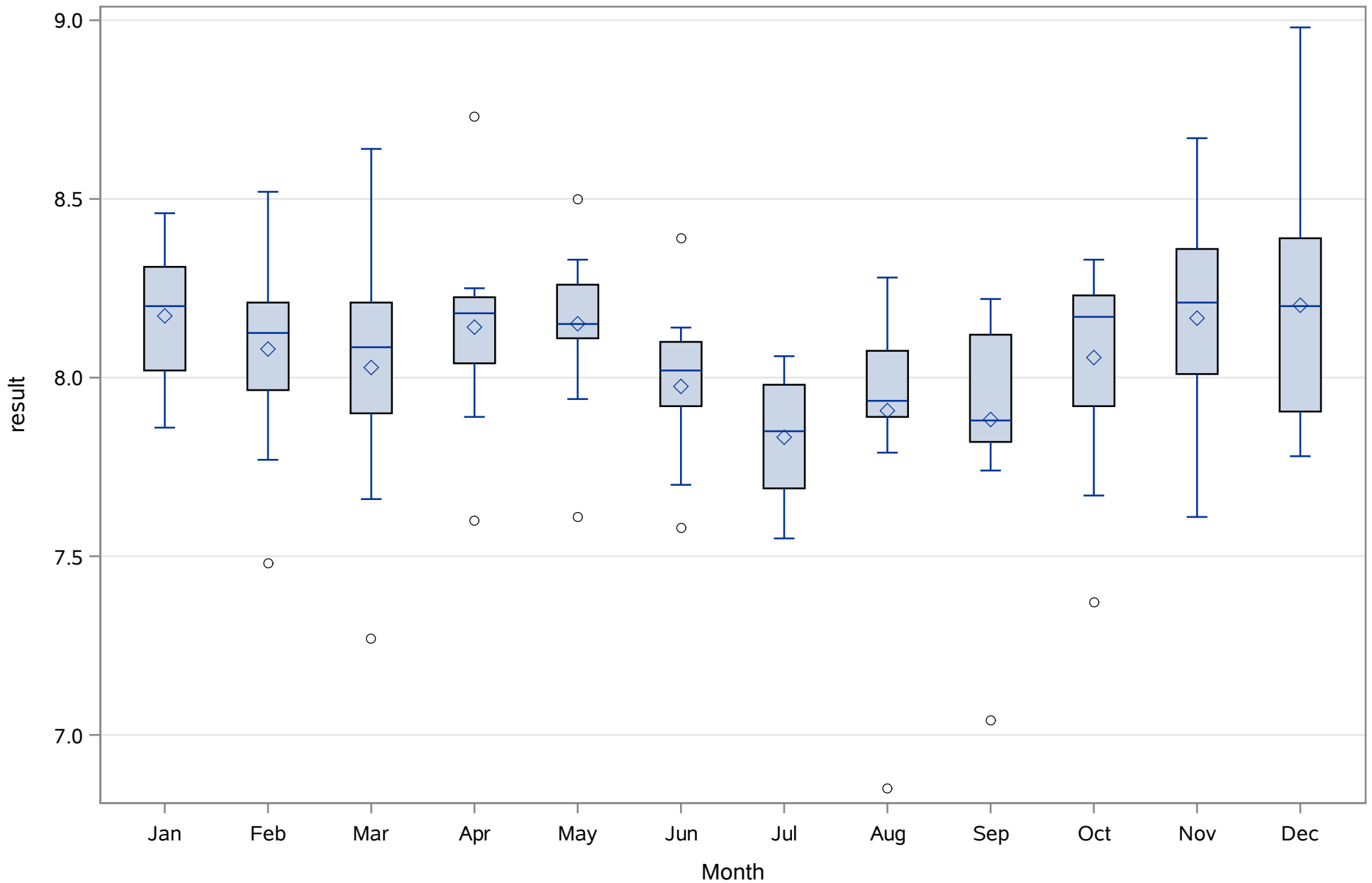
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Hernando 9
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	JUN1997	APR2017	215	4.2%	1.9%	1.9%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	4.4%	0.0%	2.2%
Color (Dissolved)	PCU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Color (Total)	PCU	MAY1999	AUG2014	182	3.8%	1.1%	1.6%
Depth (Total)	Meters	JUN1997	APR2017	216	0.0%	1.4%	0.0%
Depth, bottom (Total)	Meters	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	APR2017	214	0.5%	1.9%	0.0%
Iron (Dissolved)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	178	3.9%	1.1%	1.7%
Magnesium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	20.0%	0.0%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	205	0.0%	1.0%	1.5%
Orthophosphate (P) (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	JAN2015	APR2017	10	0.0%	10.0%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	205	1.5%	1.0%	2.4%
Potassium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Salinity (Total)	ppth	JUN1997	APR2017	216	0.9%	1.9%	0.5%
Secchi-vertical (Total)	Meters	SEP1997	APR2017	27	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN2015	APR2017	10	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	APR2017	215	0.0%	1.9%	0.0%
Turbidity (Total)	NTU	JAN2015	APR2017	10	0.0%	0.0%	0.0%
pH (Total)	SU	DEC2000	APR2017	152	2.6%	1.3%	2.0%

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	1.3867907	Sum Observations	298.16
Std Deviation	3.4526749	Variance	11.920964
Skewness	7.26852033	Kurtosis	60.1655811
Uncorrected SS	2964.5718	Corrected SS	2551.08629
Coeff Variation	248.968709	Std Error Mean	0.23547047

Basic Statistical Measures			
Location		Variability	
Mean	1.386791	Std Deviation	3.45267
Median	0.700000	Variance	11.92096
Mode	0.400000	Range	35.80000
		Interquartile Range	0.57000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	5.889446	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	36.00
99%	22.20
95%	3.50
90%	1.52
75% Q3	1.06
50% Median	0.70
25% Q1	0.49
10%	0.37
5%	0.30
1%	0.23
0% Min	0.20

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	35	11.3	17
0.21	106	12.4	16
0.23	161	22.2	13
0.23	152	23.0	14
0.25	163	36.0	12

Chassahowitzka River - Fixed Station

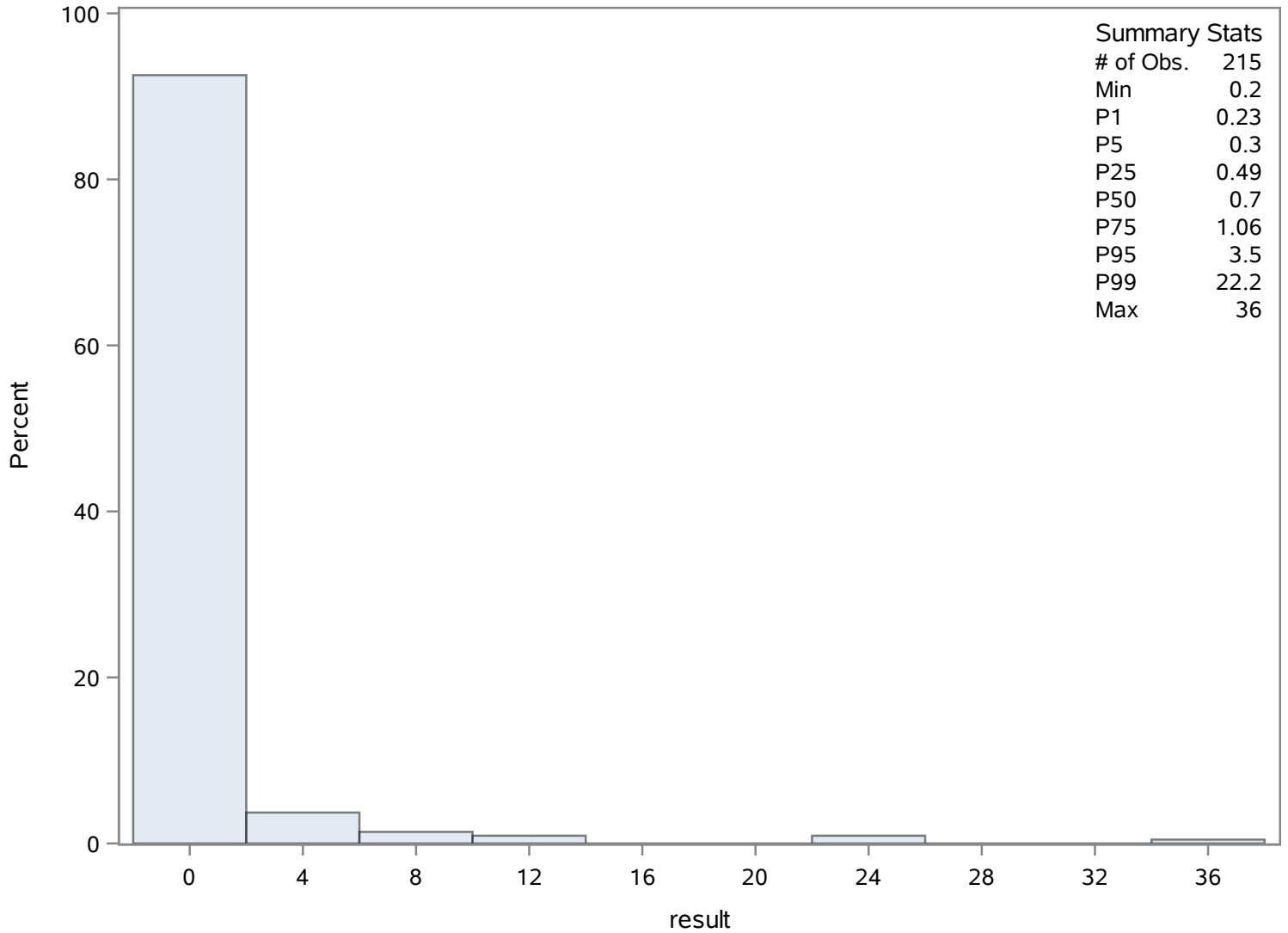
Source: COAST

Chassahowitzka Citrus 10

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	0.65142857	Sum Observations	59.28
Std Deviation	0.73456196	Variance	0.53958127
Skewness	6.15508473	Kurtosis	45.8854011
Uncorrected SS	87.179	Corrected SS	48.5623143
Coeff Variation	112.761704	Std Error Mean	0.07700302

Basic Statistical Measures			
Location		Variability	
Mean	0.651429	Std Deviation	0.73456
Median	0.560000	Variance	0.53958
Mode	0.450000	Range	6.37000
		Interquartile Range	0.44000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.45978	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.48
99%	6.48
95%	1.12
90%	0.89
75% Q3	0.78
50% Median	0.56
25% Q1	0.34
10%	0.22
5%	0.17
1%	0.11
0% Min	0.11

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.11	262	1.12	295
0.11	254	1.45	235
0.11	253	1.45	236
0.17	263	3.24	241
0.17	216	6.48	282

Chassahowitzka River - Fixed Station

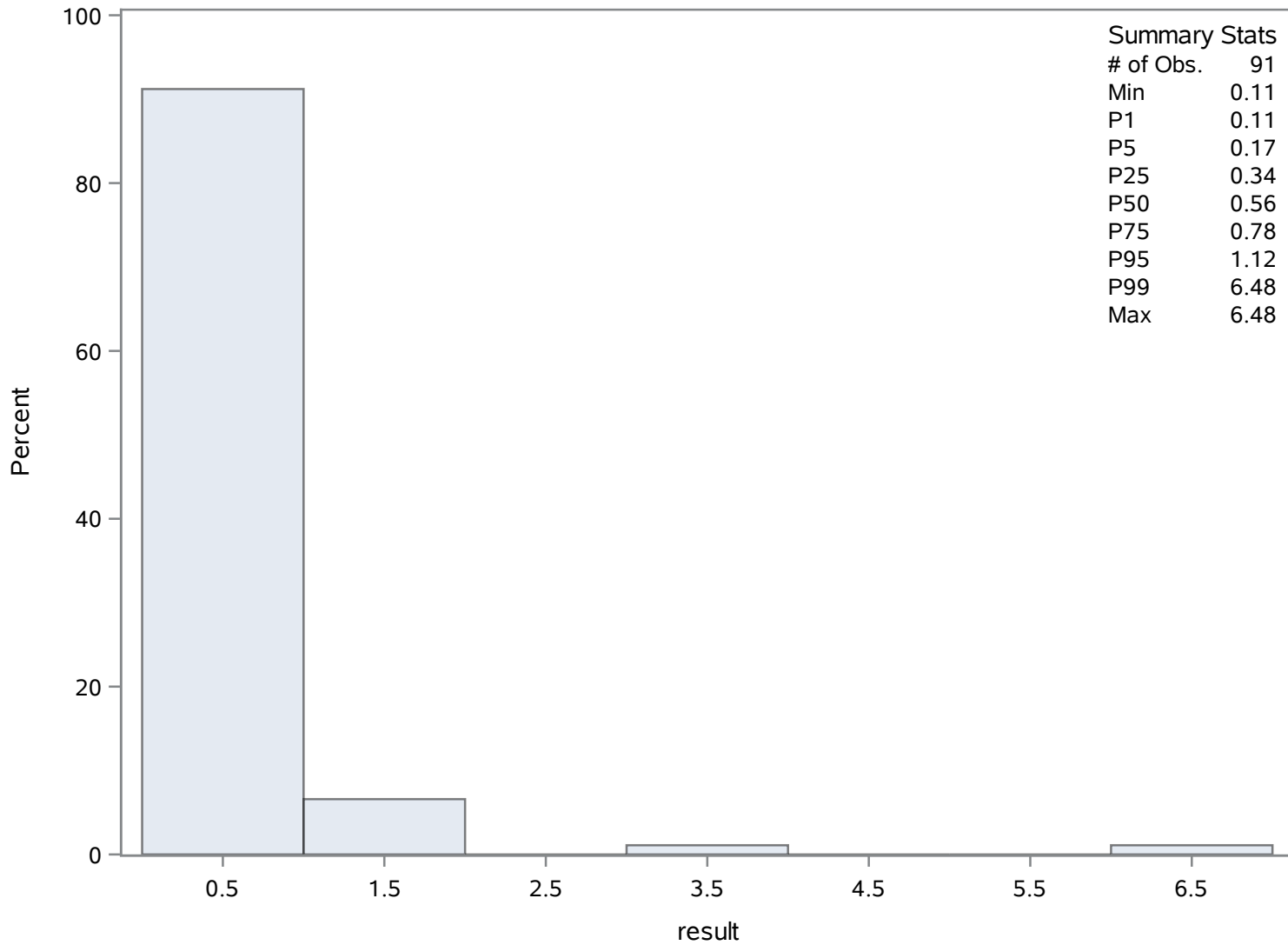
Source: COAST

Chassahowitzka Citrus 10

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	182	Sum Weights	182
Mean	13.1098901	Sum Observations	2386
Std Deviation	3.99018284	Variance	15.9215591
Skewness	2.74342144	Kurtosis	13.9323066
Uncorrected SS	34162	Corrected SS	2881.8022
Coeff Variation	30.4364324	Std Error Mean	0.29577203

Basic Statistical Measures			
Location		Variability	
Mean	13.10989	Std Deviation	3.99018
Median	13.00000	Variance	15.92156
Mode	12.00000	Range	33.00000
		Interquartile Range	4.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	44.32431	Pr > t 	<.0001
Sign	M	91	Pr >= M 	<.0001
Signed Rank	S	8326.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	39
99%	35
95%	20
90%	17
75% Q3	15
50% Median	13
25% Q1	11
10%	9
5%	9
1%	7
0% Min	6

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6	459	22	370
7	472	22	380
7	330	26	358
8	485	35	356
8	451	39	357

Chassahowitzka River - Fixed Station

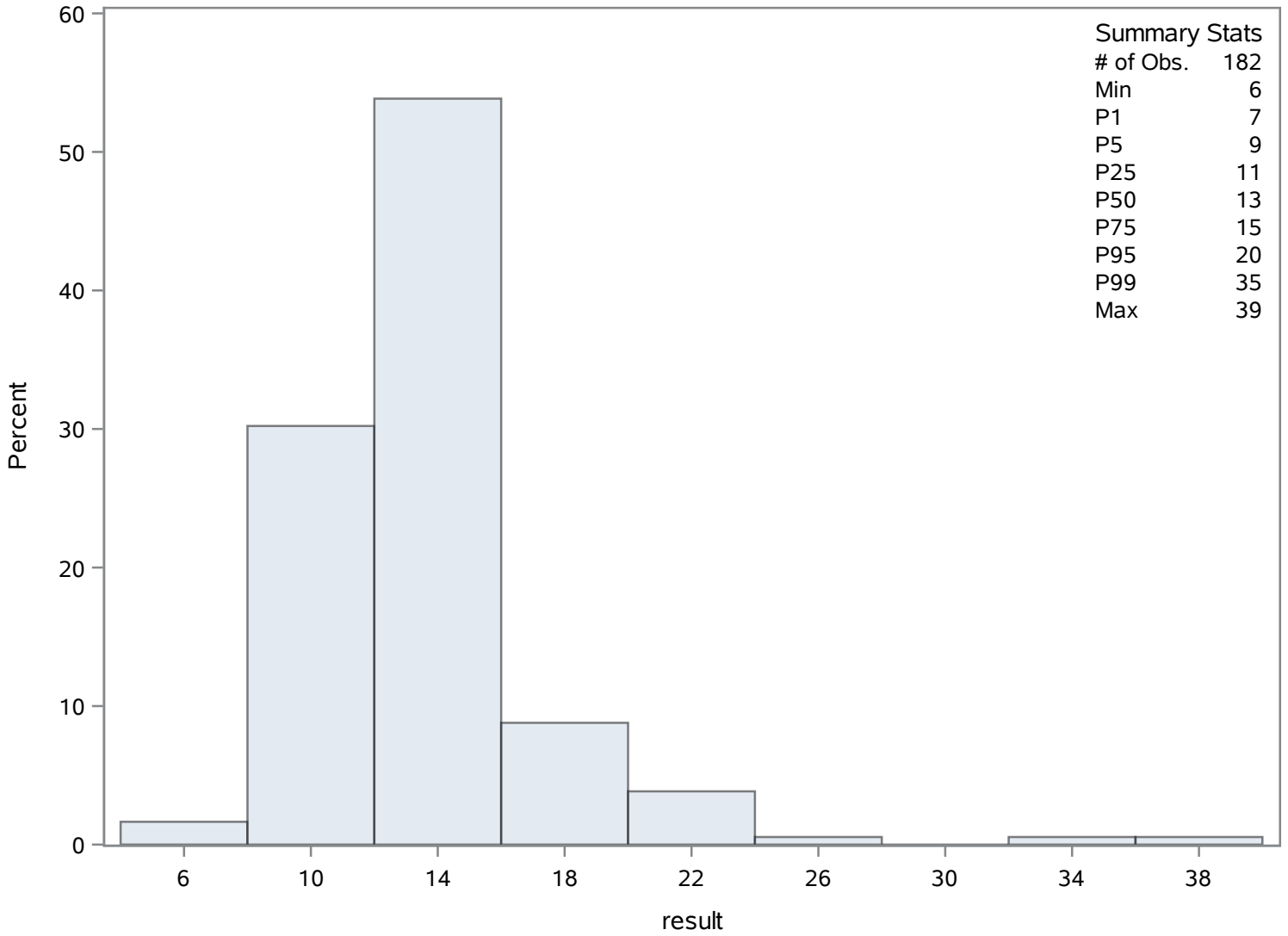
Source: COAST

Chassahowitzka Citrus 10

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	0.93712963	Sum Observations	202.42
Std Deviation	0.36959702	Variance	0.13660196
Skewness	0.29599694	Kurtosis	-0.6605617
Uncorrected SS	219.0632	Corrected SS	29.3694204
Coeff Variation	39.4392628	Std Error Mean	0.02514789

Basic Statistical Measures			
Location		Variability	
Mean	0.937130	Std Deviation	0.36960
Median	0.900000	Variance	0.13660
Mode	0.800000	Range	1.70000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	37.26474	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.90
99%	1.70
95%	1.60
90%	1.50
75% Q3	1.20
50% Median	0.90
25% Q1	0.70
10%	0.50
5%	0.40
1%	0.24
0% Min	0.20

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	622	1.7	492
0.20	522	1.7	535
0.24	699	1.7	559
0.30	613	1.7	658
0.30	524	1.9	560

Chassahowitzka River - Fixed Station

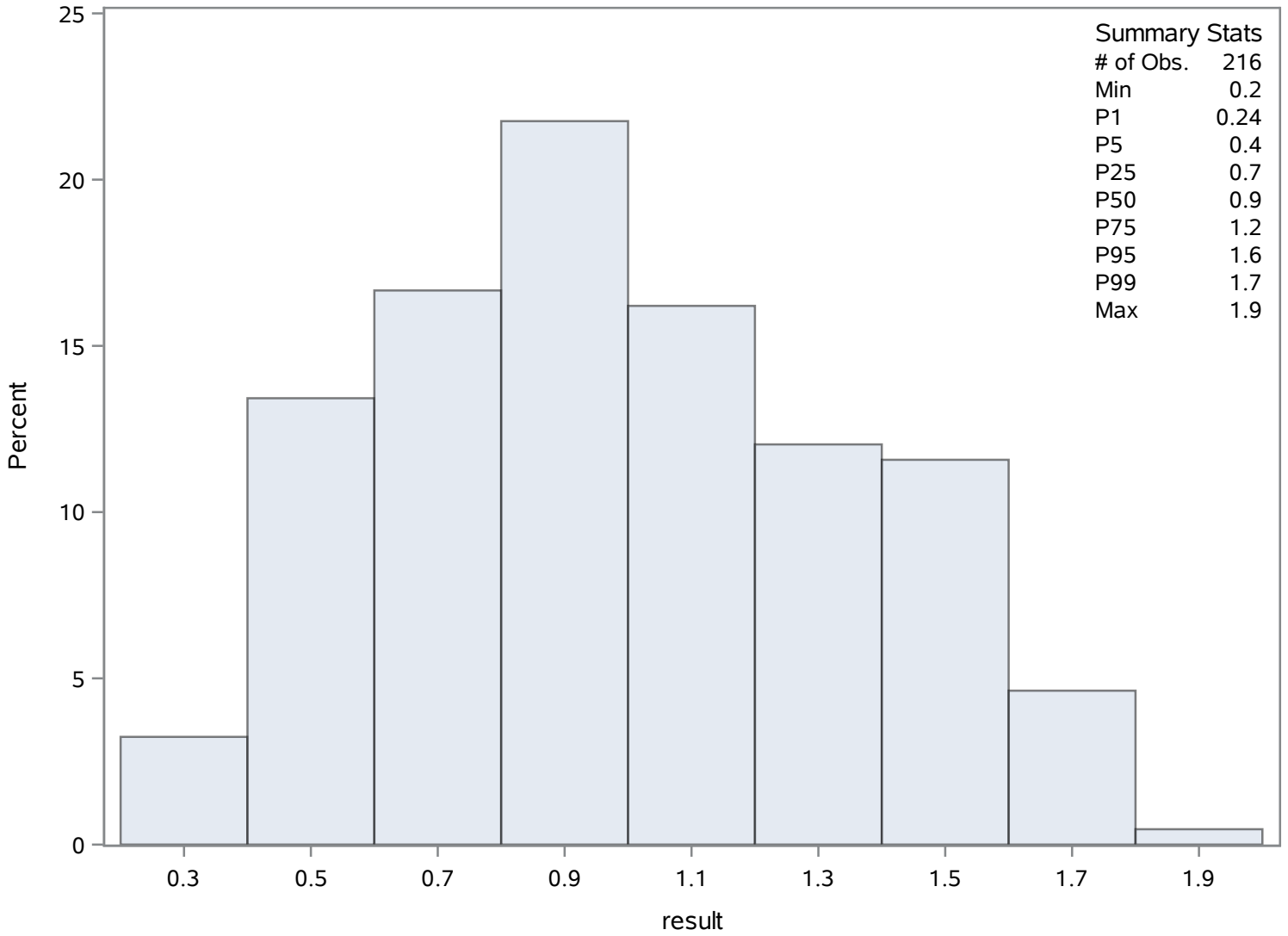
Source: COAST

Chassahowitzka Citrus 10

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	214	Sum Weights	214
Mean	7.12523364	Sum Observations	1524.8
Std Deviation	1.7301124	Variance	2.99328891
Skewness	0.33607752	Kurtosis	-0.3875338
Uncorrected SS	11502.1268	Corrected SS	637.570538
Coeff Variation	24.281483	Std Error Mean	0.11826805

Basic Statistical Measures			
Location		Variability	
Mean	7.125234	Std Deviation	1.73011
Median	7.010000	Variance	2.99329
Mode	6.000000	Range	8.68000
		Interquartile Range	2.41000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	60.24648	Pr > t 	<.0001
Sign	M	107	Pr >= M 	<.0001
Signed Rank	S	11502.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.30
99%	11.13
95%	10.16
90%	9.70
75% Q3	8.21
50% Median	7.01
25% Q1	5.80
10%	5.01
5%	4.51

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.83
0% Min	3.62

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.62	860	10.70	794
3.77	825	10.80	710
3.83	816	11.13	828
4.00	836	11.24	805
4.03	817	12.30	746

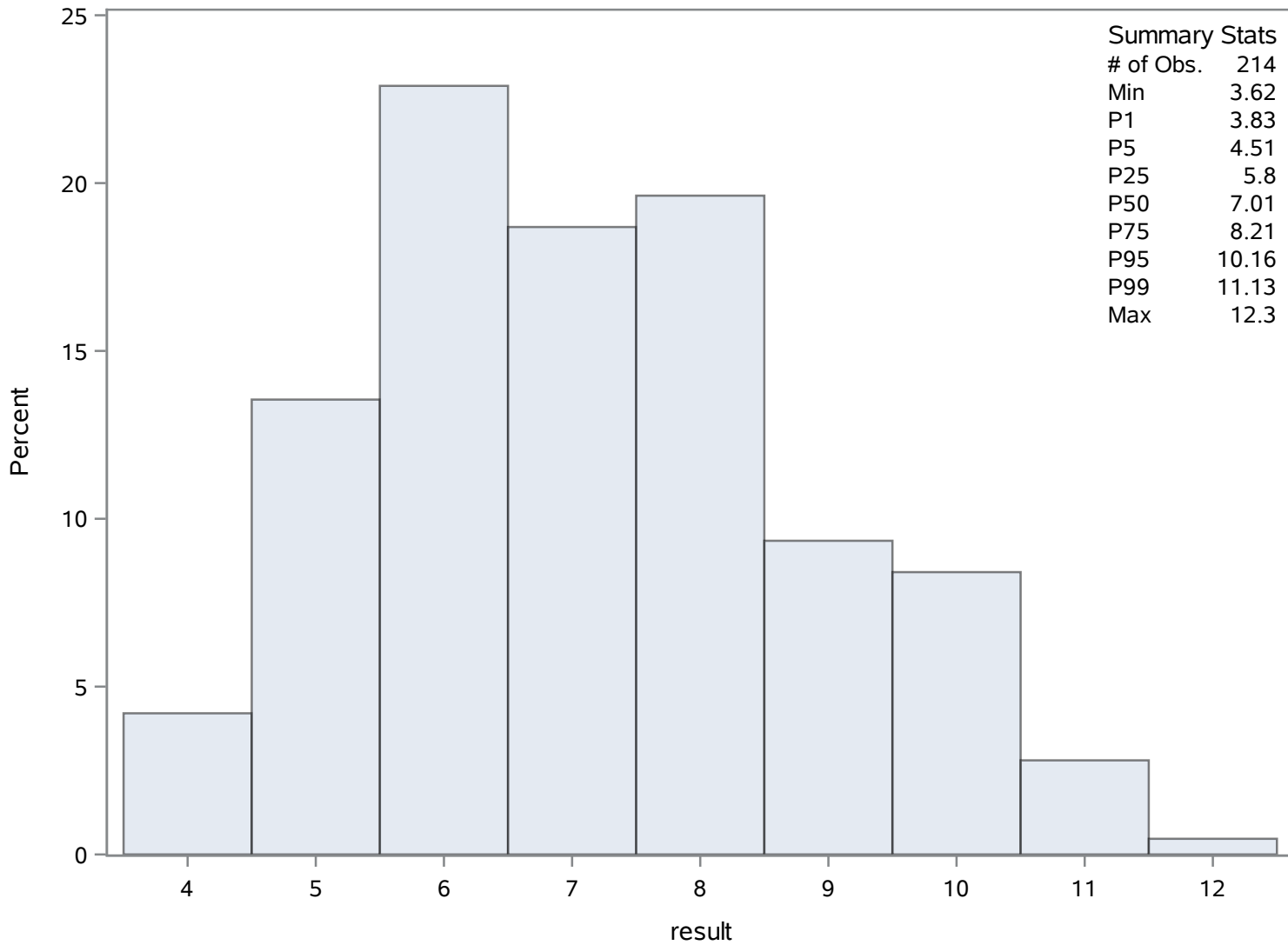
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 10 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	178	Sum Weights	178
Mean	1.23363483	Sum Observations	219.587
Std Deviation	0.71141807	Variance	0.50611567
Skewness	4.01436573	Kurtosis	25.0456798
Uncorrected SS	360.472645	Corrected SS	89.5824733
Coeff Variation	57.6684486	Std Error Mean	0.05332304

Basic Statistical Measures			
Location		Variability	
Mean	1.233635	Std Deviation	0.71142
Median	1.087500	Variance	0.50612
Mode	1.122000	Range	6.51800
		Interquartile Range	0.56400

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	23.13512	Pr > t 	<.0001
Sign	M	89	Pr >= M 	<.0001
Signed Rank	S	7965.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.8730
99%	4.4920
95%	2.2920
90%	1.8740
75% Q3	1.4070
50% Median	1.0875
25% Q1	0.8430
10%	0.6930
5%	0.6210

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

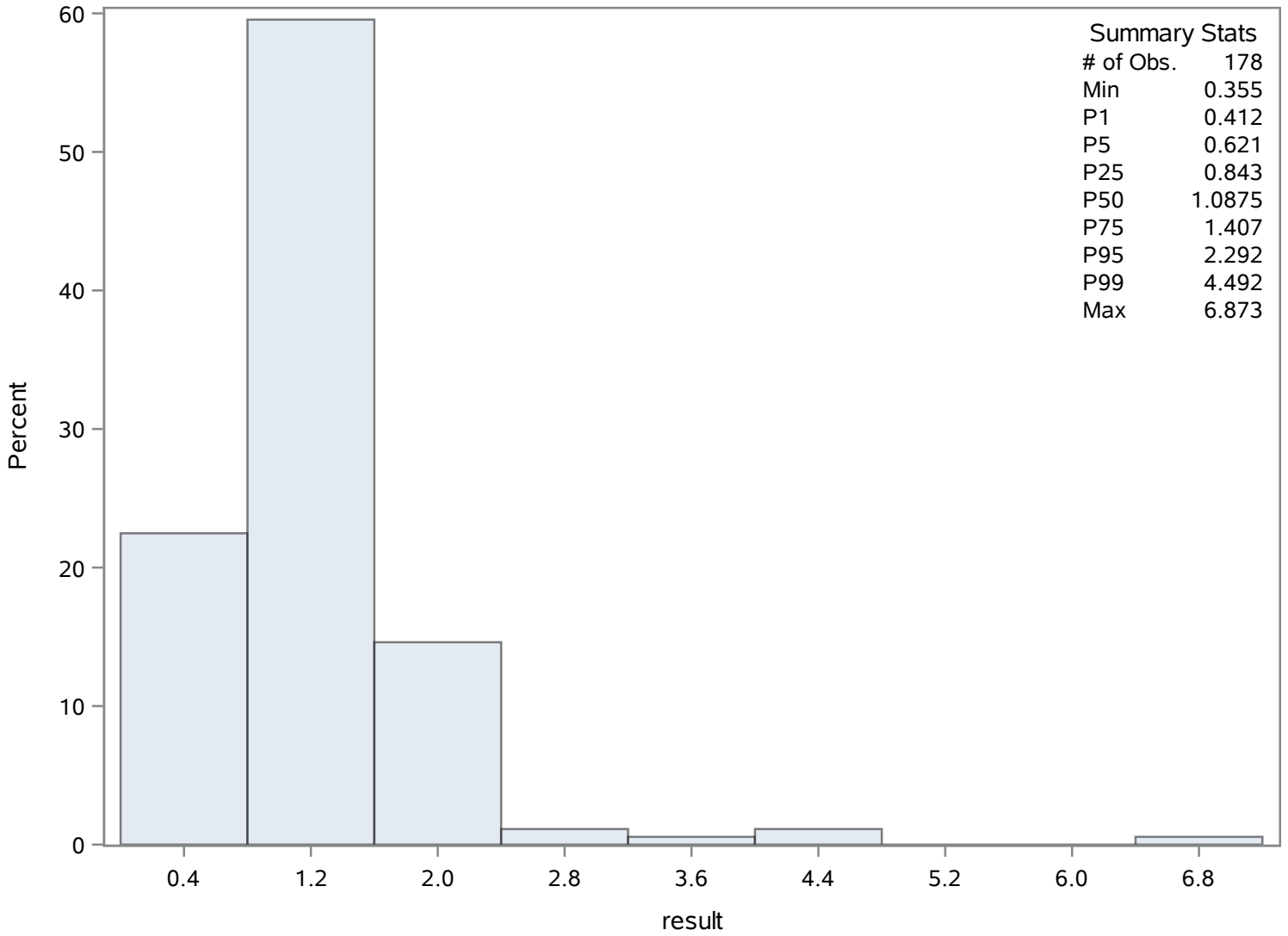
Quantiles (Definition 5)	
Level	Quantile
1%	0.4120
0% Min	0.3550

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.355	1001	2.763	964
0.412	996	3.259	1007
0.468	1084	4.098	947
0.481	1085	4.492	923
0.520	1093	6.873	963

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.42888889	Sum Observations	3.86
Std Deviation	0.08724168	Variance	0.00761111
Skewness	-0.1181202	Kurtosis	0.2603008
Uncorrected SS	1.7164	Corrected SS	0.06088889
Coeff Variation	20.3413249	Std Error Mean	0.02908056

Basic Statistical Measures			
Location		Variability	
Mean	0.428889	Std Deviation	0.08724
Median	0.450000	Variance	0.00761
Mode	0.450000	Range	0.29000
		Interquartile Range	0.08000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.7483	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.58
99%	0.58
95%	0.58
90%	0.58
75% Q3	0.46
50% Median	0.45
25% Q1	0.38
10%	0.29
5%	0.29

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.29
0% Min	0.29

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.29	1100	0.45	1099
0.32	1105	0.46	1097
0.38	1104	0.46	1103
0.45	1099	0.47	1101
0.45	1098	0.58	1102

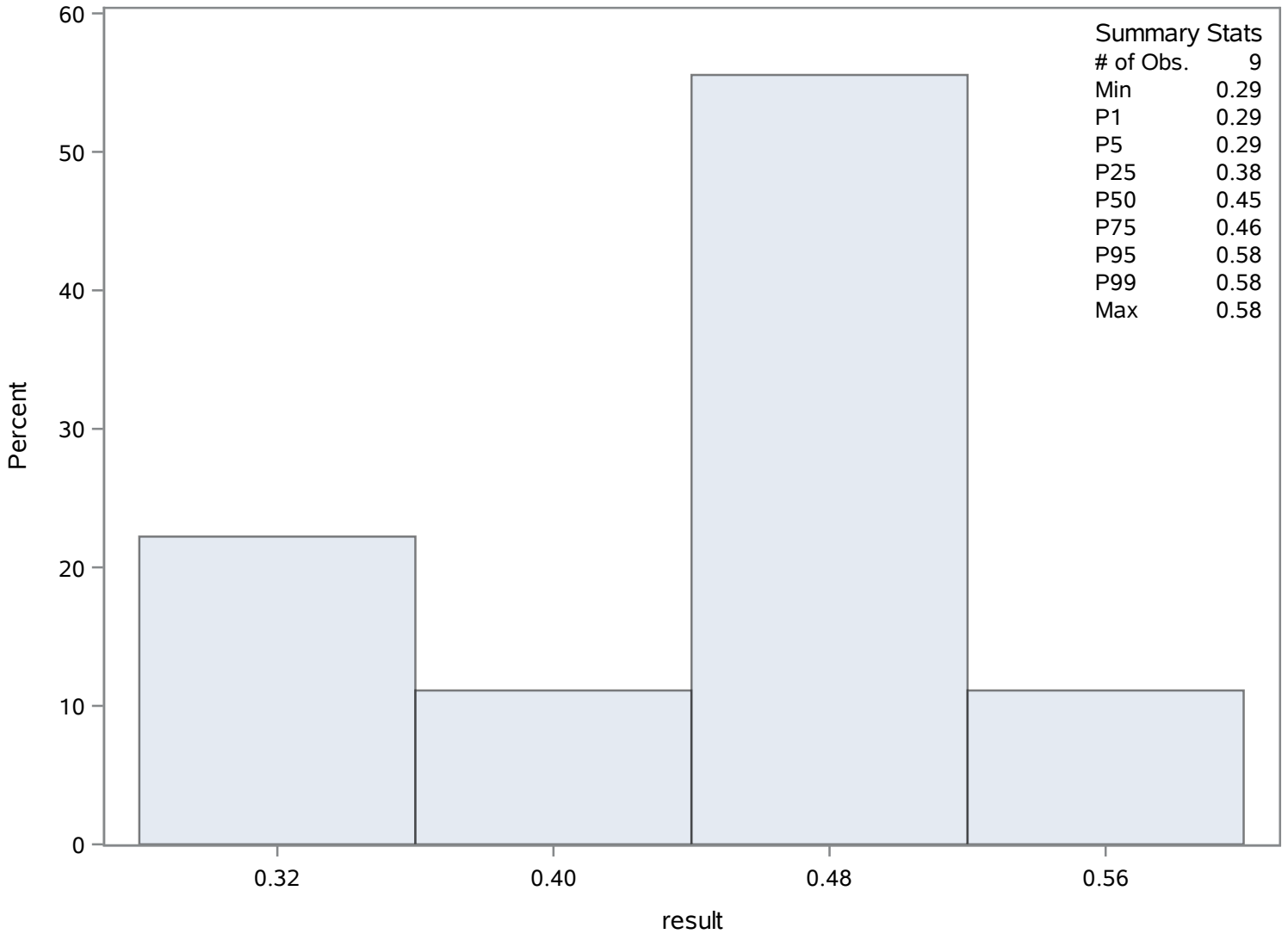
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 10
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	469.512195	Sum Observations	96250
Std Deviation	213.05149	Variance	45390.9374
Skewness	2.33036715	Kurtosis	9.88493614
Uncorrected SS	54450300	Corrected SS	9259751.22
Coeff Variation	45.3772004	Std Error Mean	14.8801615

Basic Statistical Measures			
Location		Variability	
Mean	469.5122	Std Deviation	213.05149
Median	440.0000	Variance	45391
Mode	390.0000	Range	1570
		Interquartile Range	220.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	31.5529	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1660
99%	1540
95%	760
90%	680
75% Q3	560
50% Median	440
25% Q1	340
10%	260
5%	210
1%	170
0% Min	90

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
90	1302	1040	1120
160	1303	1090	1122
170	1112	1540	1119
180	1173	1560	1117
190	1174	1660	1118

Chassahowitzka River - Fixed Station

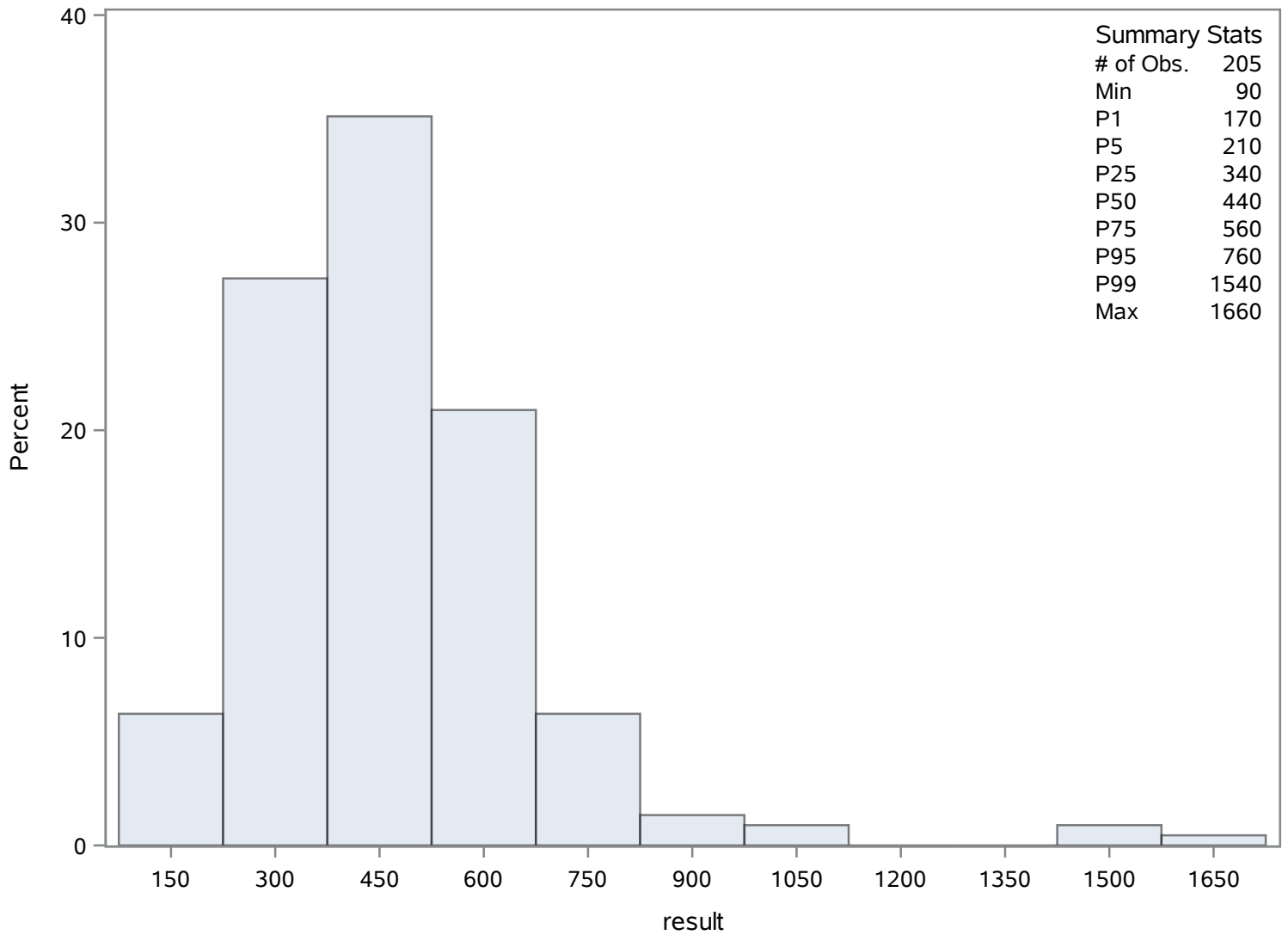
Source: COAST

Chassahowitzka Citrus 10

Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	0.00833333	Sum Observations	0.075
Std Deviation	0.00173205	Variance	3E-6
Skewness	1.01036297	Kurtosis	1.8968254
Uncorrected SS	0.000649	Corrected SS	0.000024
Coeff Variation	20.7846097	Std Error Mean	0.00057735

Basic Statistical Measures			
Location		Variability	
Mean	0.008333	Std Deviation	0.00173
Median	0.008000	Variance	3E-6
Mode	0.009000	Range	0.00600
		Interquartile Range	0.00200

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.43376	Pr > t 	<.0001
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.012
99%	0.012
95%	0.012
90%	0.012
75% Q3	0.009
50% Median	0.008
25% Q1	0.007
10%	0.006
5%	0.006
1%	0.006
0% Min	0.006

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) mg/L

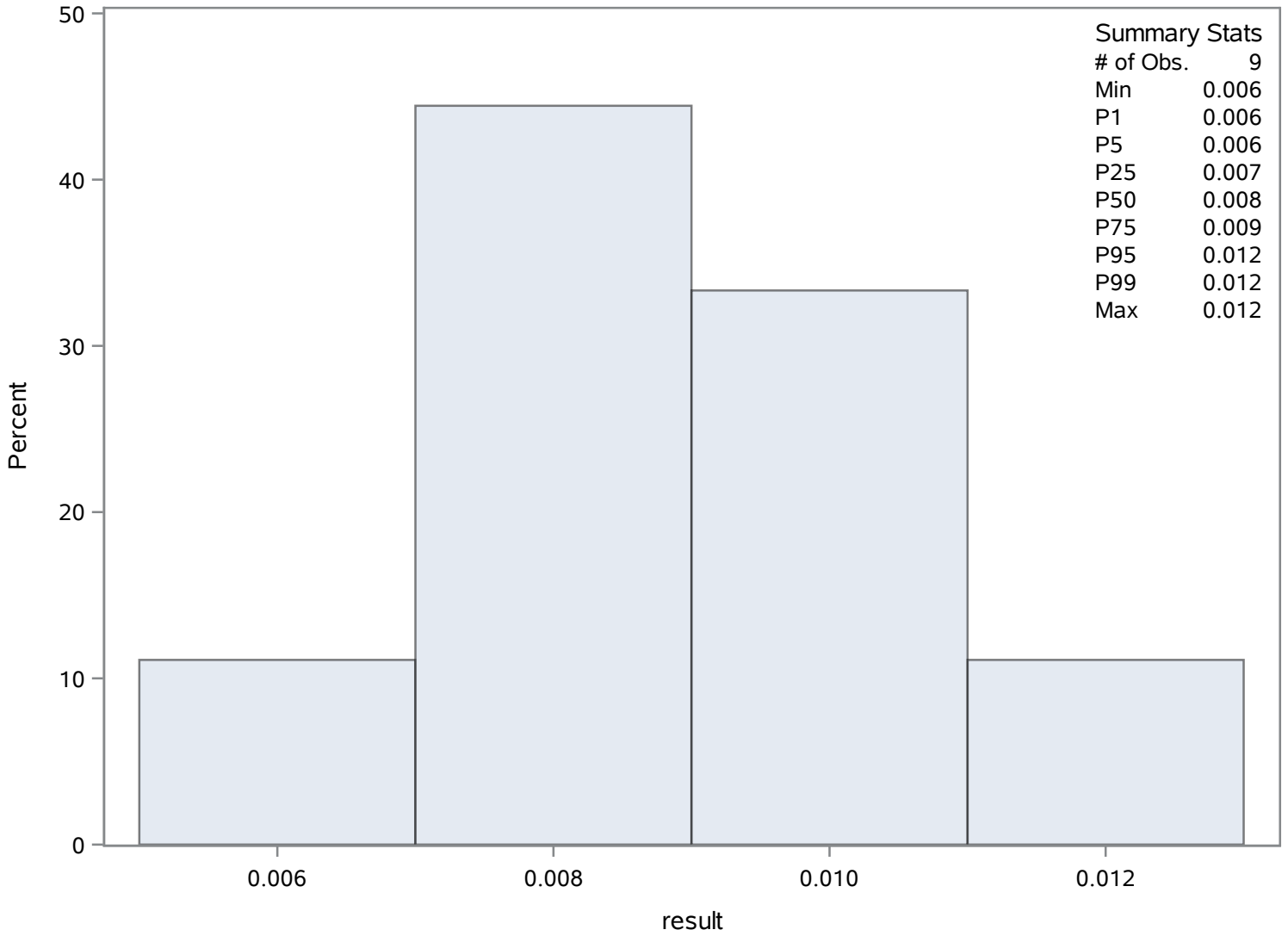
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	1314	0.008	1319
0.007	1318	0.009	1311
0.007	1313	0.009	1315
0.008	1319	0.009	1316
0.008	1317	0.012	1312

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	8.74146341	Sum Observations	1792
Std Deviation	5.89503678	Variance	34.7514586
Skewness	3.56720623	Kurtosis	16.6387674
Uncorrected SS	22754	Corrected SS	7089.29756
Coeff Variation	67.4376417	Std Error Mean	0.41172723

Basic Statistical Measures			
Location		Variability	
Mean	8.741463	Std Deviation	5.89504
Median	7.000000	Variance	34.75146
Mode	7.000000	Range	43.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.2312	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	45
99%	40
95%	18
90%	13
75% Q3	10
50% Median	7
25% Q1	6
10%	4
5%	4
1%	2
0% Min	2

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	1493	29	1512
2	1488	32	1337
2	1483	40	1333
3	1520	43	1332
3	1491	45	1331

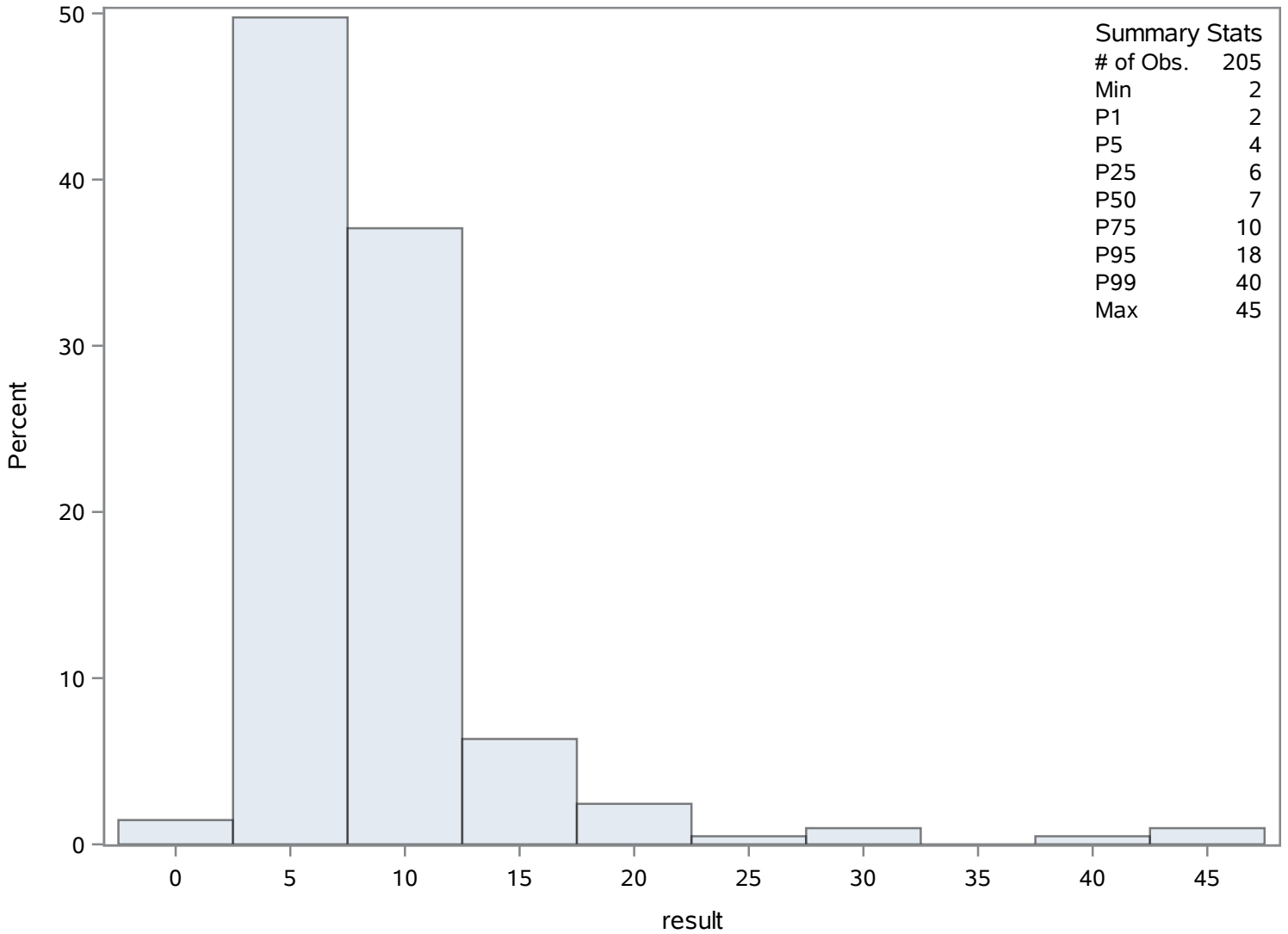
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 10 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	216	Sum Weights	216
Mean	21.7465741	Sum Observations	4697.26
Std Deviation	4.66689024	Variance	21.7798645
Skewness	-0.0642127	Kurtosis	0.58158528
Uncorrected SS	106831.983	Corrected SS	4682.67086
Coeff Variation	21.4603469	Std Error Mean	0.31754166

Basic Statistical Measures			
Location		Variability	
Mean	21.74657	Std Deviation	4.66689
Median	21.91000	Variance	21.77986
Mode	25.00000	Range	28.83000
		Interquartile Range	5.91500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	68.48416	Pr > t 	<.0001
Sign	M	108	Pr >= M 	<.0001
Signed Rank	S	11718	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	35.100
99%	33.890
95%	29.410
90%	27.700
75% Q3	24.435
50% Median	21.910
25% Q1	18.520
10%	16.300
5%	13.850
1%	10.600
0% Min	6.270

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.27	1598	32.20	1548
7.98	1597	33.15	1573
10.60	1621	33.89	1584
12.00	1534	34.22	1585
12.00	1532	35.10	1561

Chassahowitzka River - Fixed Station

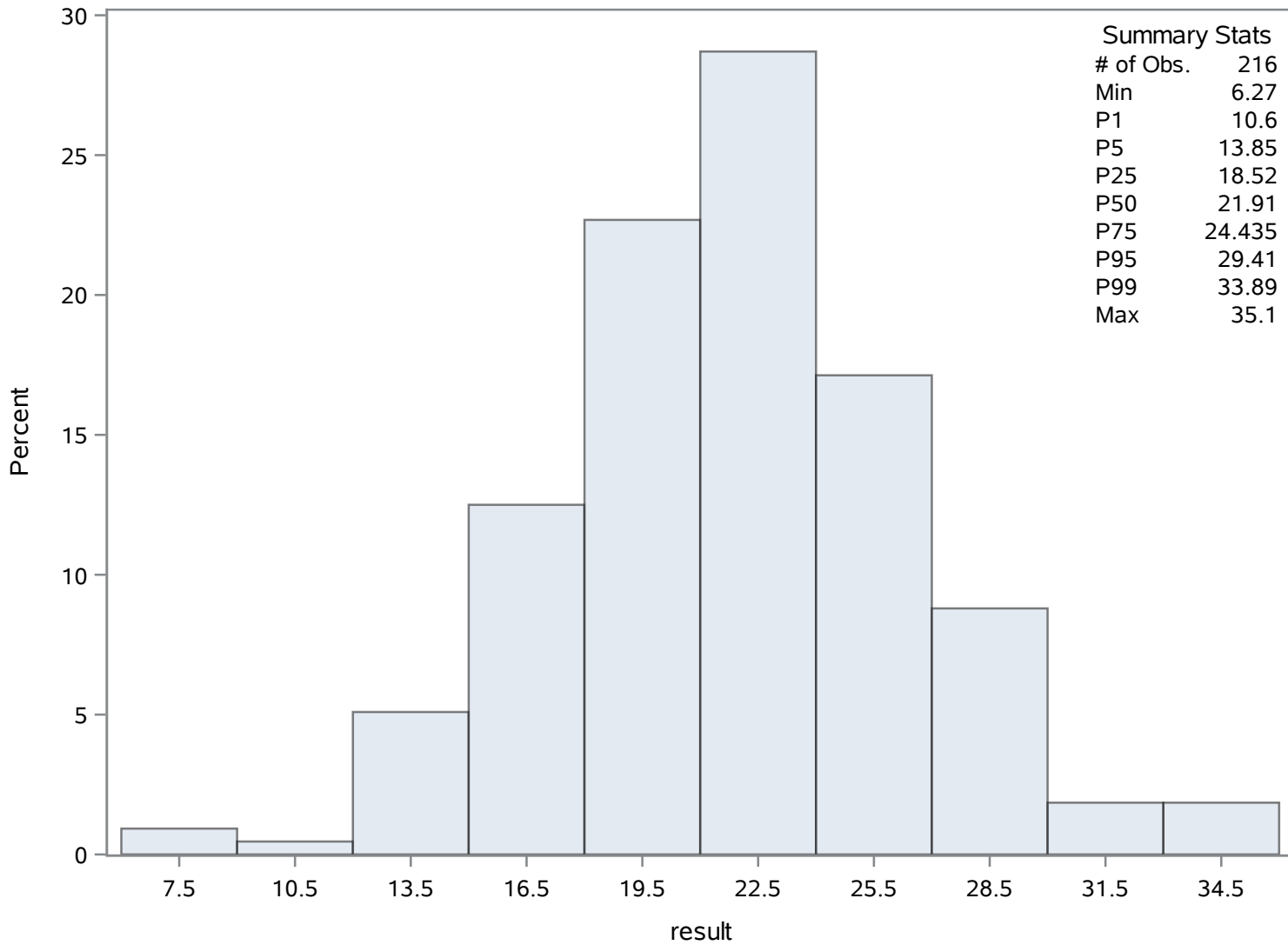
Source: COAST

Chassahowitzka Citrus 10

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 10

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	0.83888889	Sum Observations	22.65
Std Deviation	0.26578379	Variance	0.07064103
Skewness	0.23289839	Kurtosis	-0.4690239
Uncorrected SS	20.8375	Corrected SS	1.83666667
Coeff Variation	31.6828365	Std Error Mean	0.05115012

Basic Statistical Measures			
Location		Variability	
Mean	0.838889	Std Deviation	0.26578
Median	0.840000	Variance	0.07064
Mode	0.700000	Range	1.02000
		Interquartile Range	0.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.40053	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.42
99%	1.42
95%	1.27
90%	1.20
75% Q3	1.00
50% Median	0.84
25% Q1	0.70
10%	0.49
5%	0.48
1%	0.40
0% Min	0.40

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	1744	1.10	1764
0.48	1762	1.20	1755
0.49	1766	1.20	1757
0.50	1754	1.27	1760
0.50	1746	1.42	1767

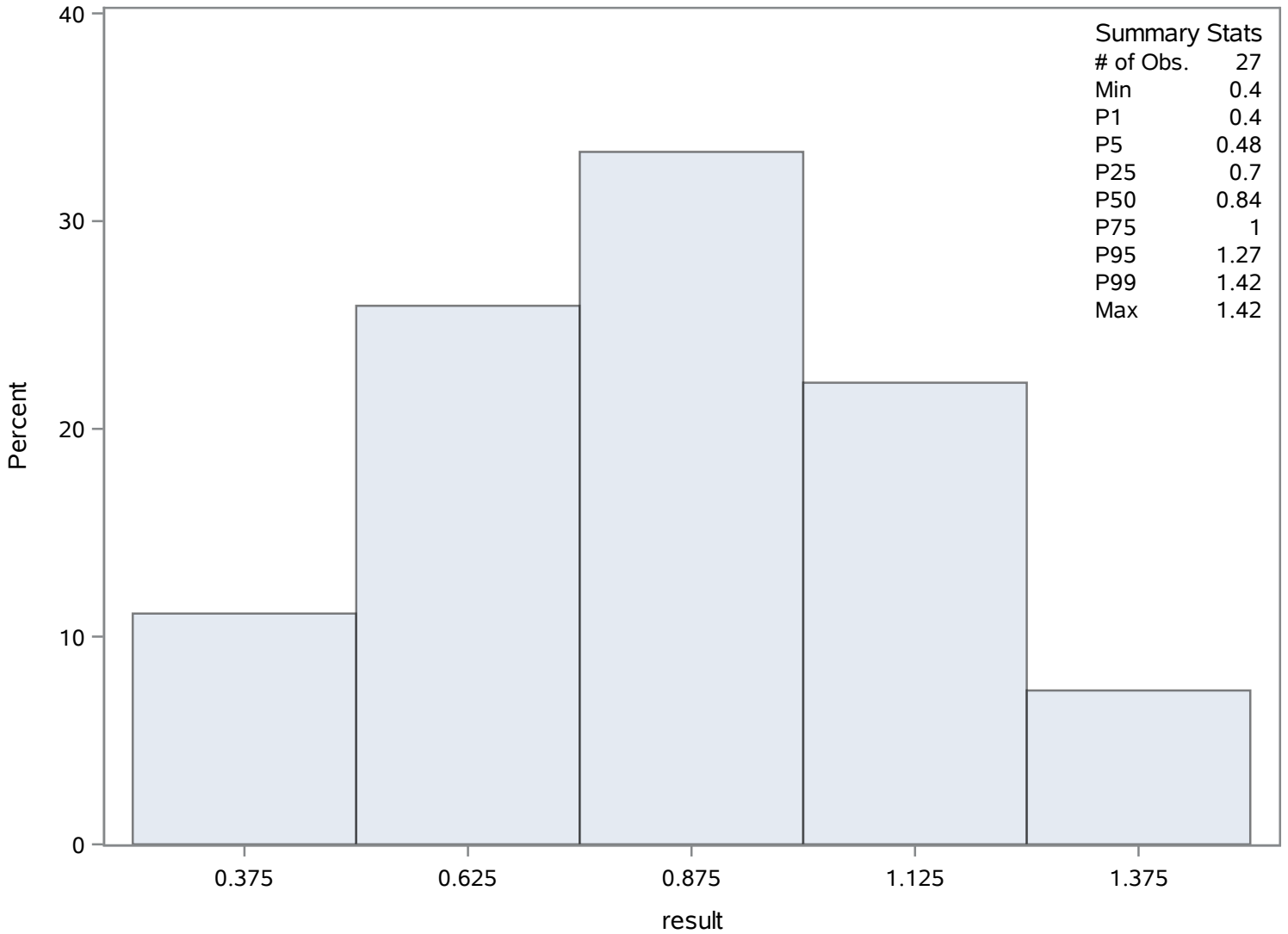
Chassahowitzka River - Fixed Station

Source: COAST

Chassahowitzka Citrus 10 Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	215	Sum Weights	215
Mean	23.536093	Sum Observations	5060.26
Std Deviation	5.98218591	Variance	35.7865482
Skewness	-0.5464272	Kurtosis	-0.5481421
Uncorrected SS	126757.071	Corrected SS	7658.32132
Coeff Variation	25.4170728	Std Error Mean	0.40798169

Basic Statistical Measures			
Location		Variability	
Mean	23.53609	Std Deviation	5.98219
Median	24.47000	Variance	35.78655
Mode	16.00000	Range	26.03000
		Interquartile Range	9.66000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	57.68909	Pr > t 	<.0001
Sign	M	107.5	Pr >= M 	<.0001
Signed Rank	S	11610	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	33.07
99%	32.16
95%	31.41
90%	30.50
75% Q3	28.63
50% Median	24.47
25% Q1	18.97
10%	15.17
5%	12.33

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	8.53
0% Min	7.04

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.04	1929	31.76	1839
7.50	1809	32.10	1888
8.53	1810	32.16	1922
9.35	1928	32.21	1863
10.99	1833	33.07	1828

Chassahowitzka River - Fixed Station

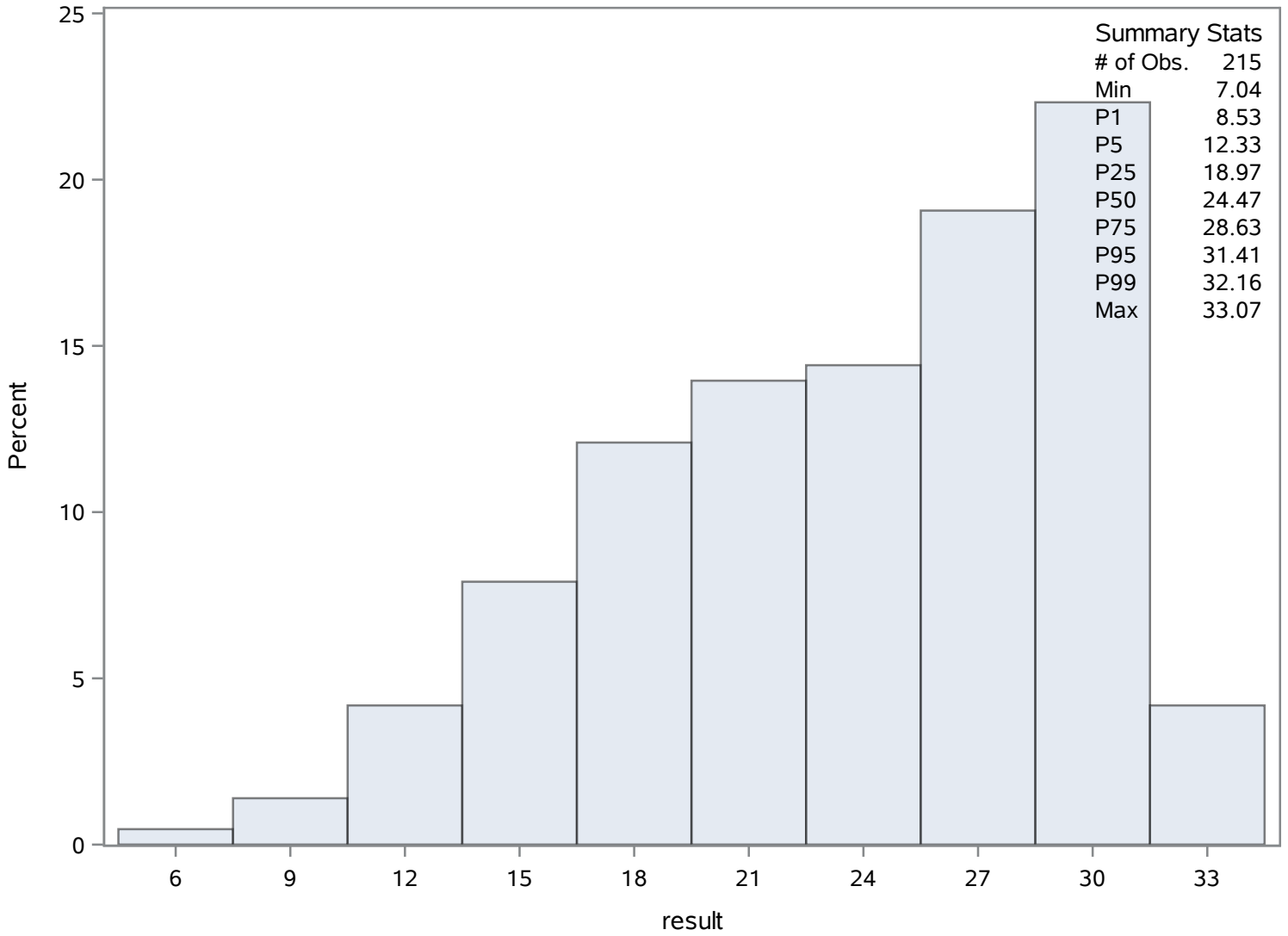
Source: COAST

Chassahowitzka Citrus 10

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	152	Sum Weights	152
Mean	8.03986842	Sum Observations	1222.06
Std Deviation	0.30274678	Variance	0.09165561
Skewness	-0.2992203	Kurtosis	2.26569311
Uncorrected SS	9839.0416	Corrected SS	13.8399974
Coeff Variation	3.76556882	Std Error Mean	0.02455601

Basic Statistical Measures			
Location		Variability	
Mean	8.039868	Std Deviation	0.30275
Median	8.055000	Variance	0.09166
Mode	8.190000	Range	2.09000
		Interquartile Range	0.32000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	327.4094	Pr > t 	<.0001
Sign	M	76	Pr >= M 	<.0001
Signed Rank	S	5814	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.990
99%	8.900
95%	8.540
90%	8.330
75% Q3	8.210
50% Median	8.055
25% Q1	7.890
10%	7.680
5%	7.610
1%	6.930
0% Min	6.900

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.90	2053	8.66	1987
6.93	2054	8.67	2021
7.39	2095	8.72	2044
7.45	2090	8.90	1986
7.49	2094	8.99	1983

Chassahowitzka River - Fixed Station

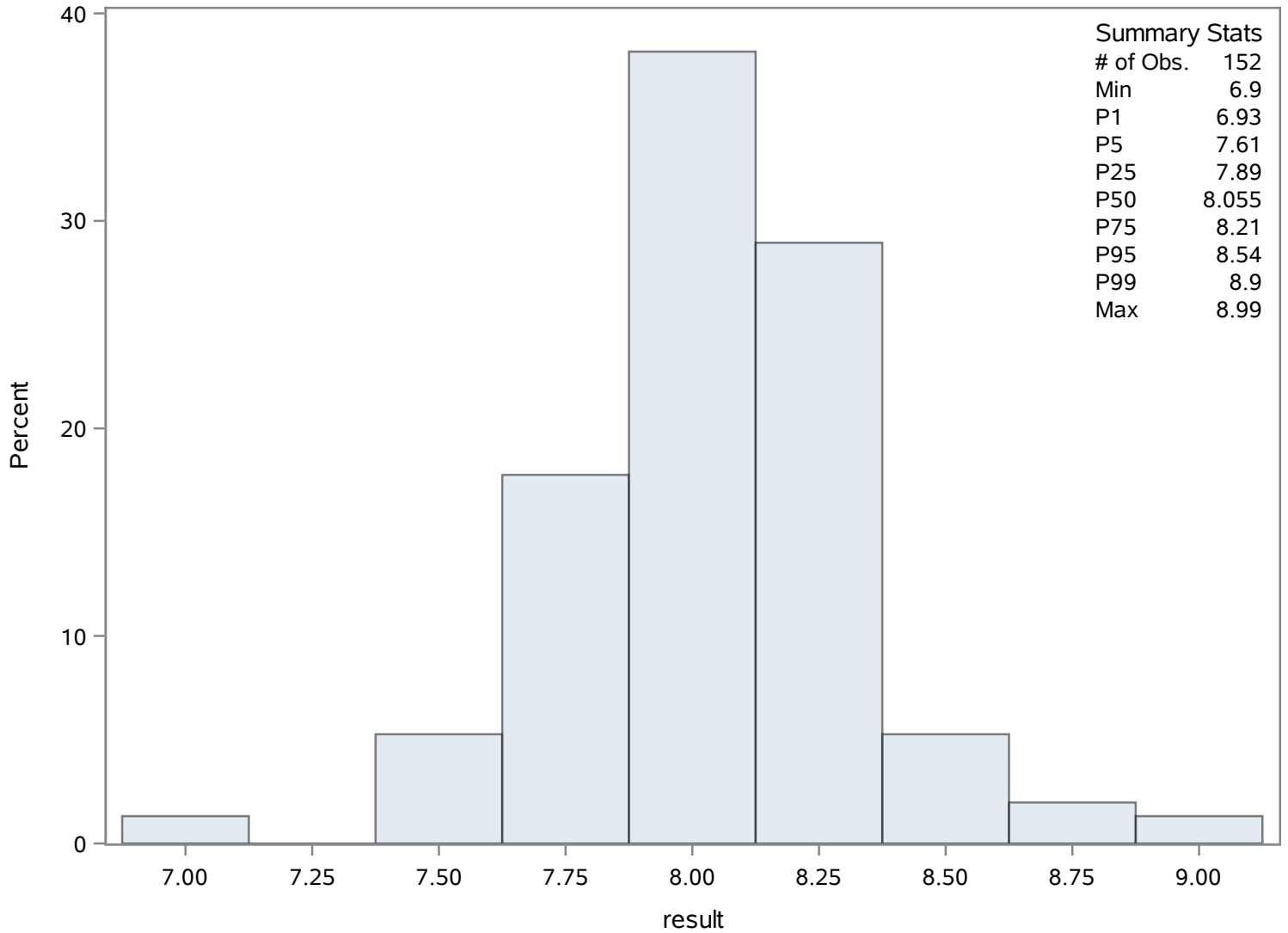
Source: COAST

Chassahowitzka Citrus 10

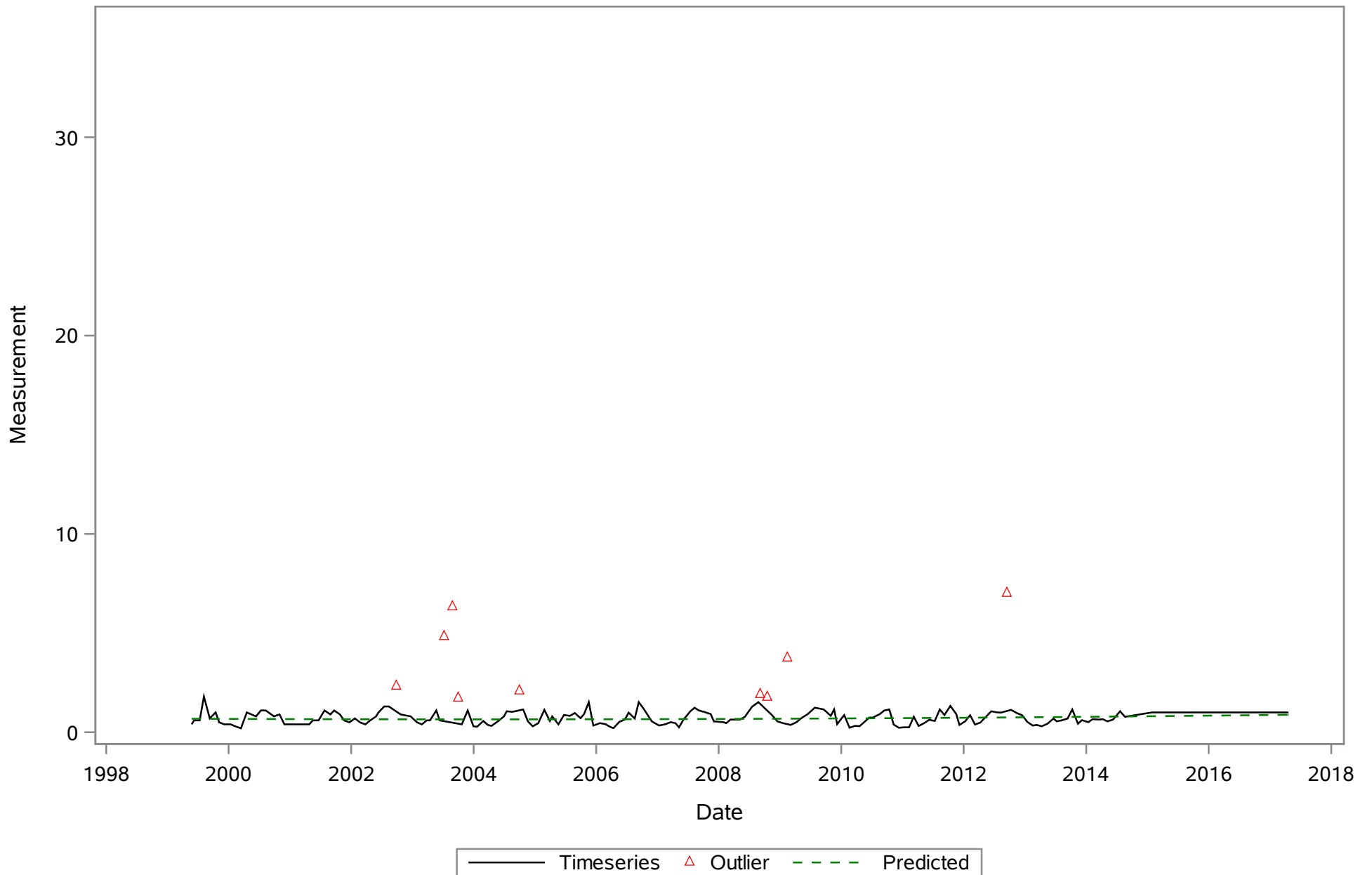
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Chlorophyll (Total) ug/L

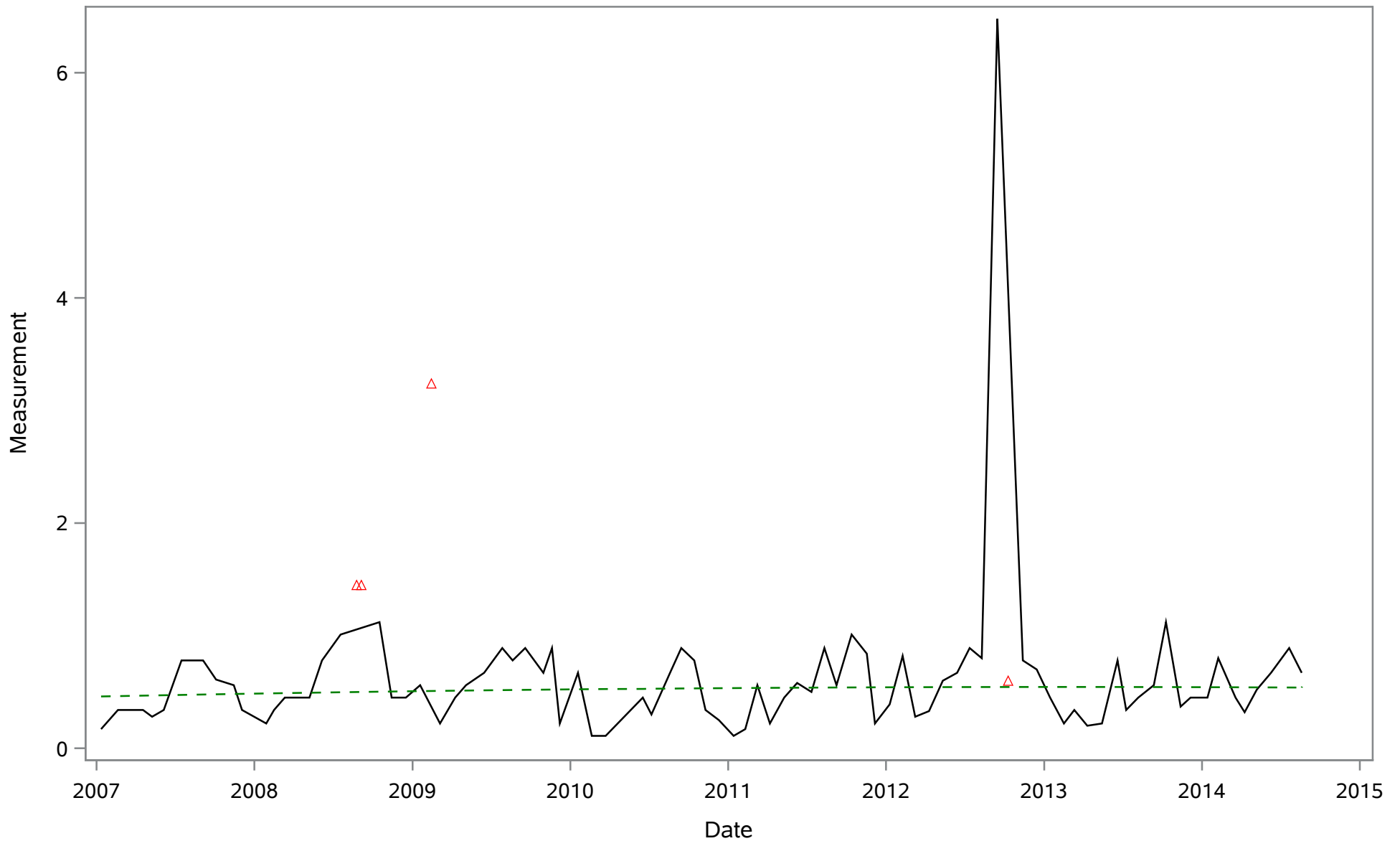


Chassahowitzka River - Fixed Station

Source: COAST

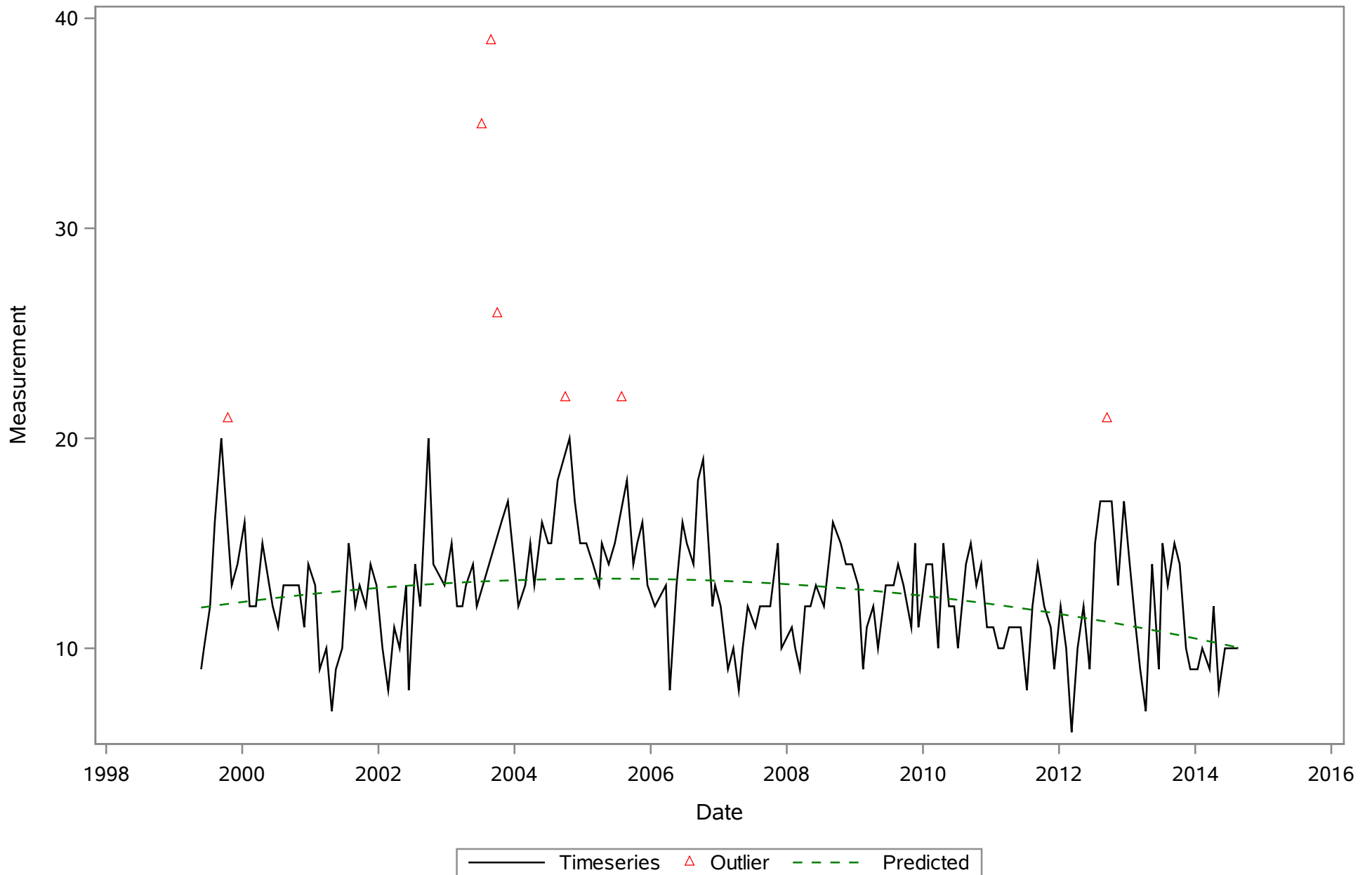
Chassahowitzka Citrus 10

Chlorophyll a (Total) ug/L

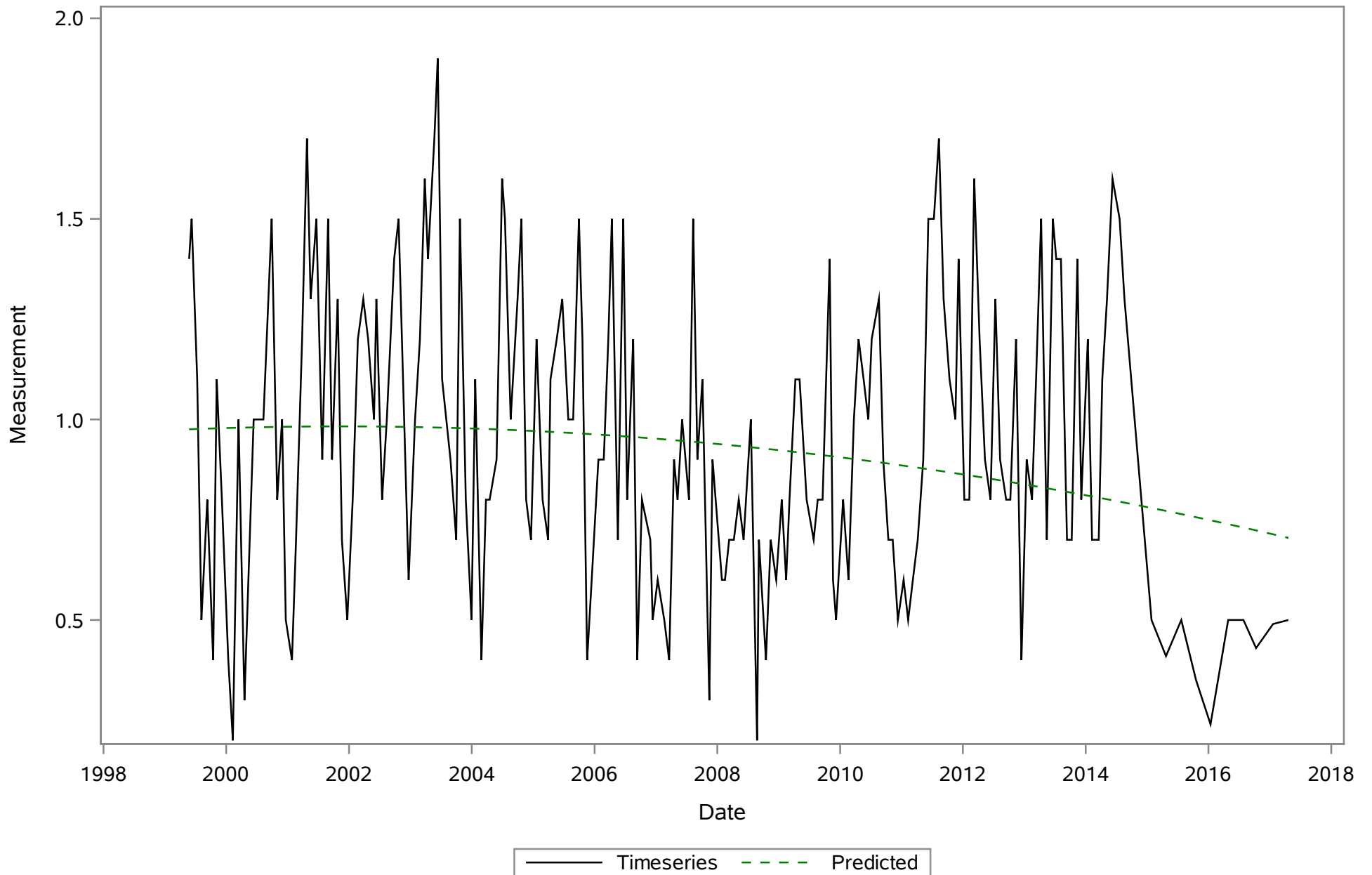


— Timeseries △ Outlier - - - Predicted

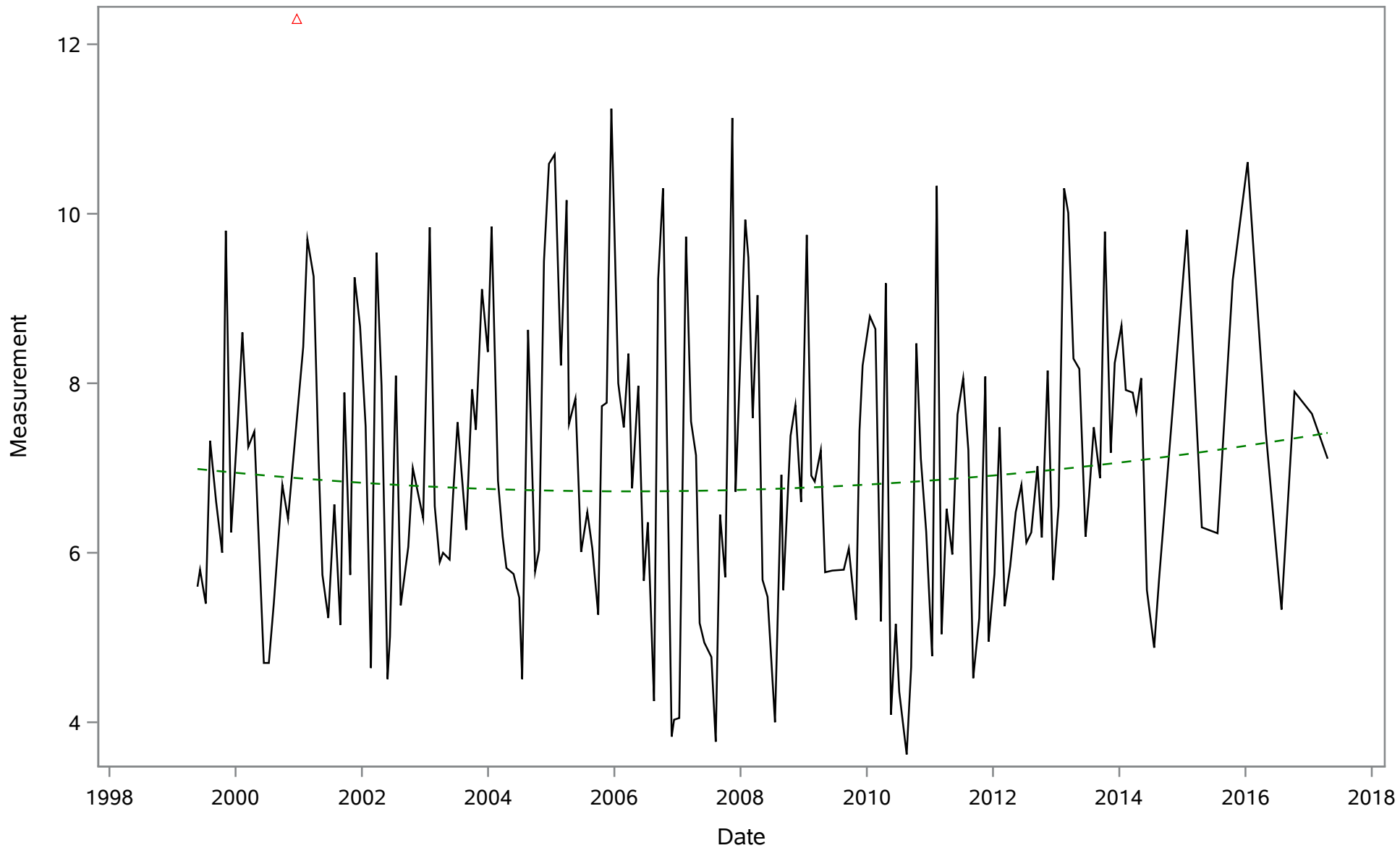
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Color (Total) PCU



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Depth (Total) Meters

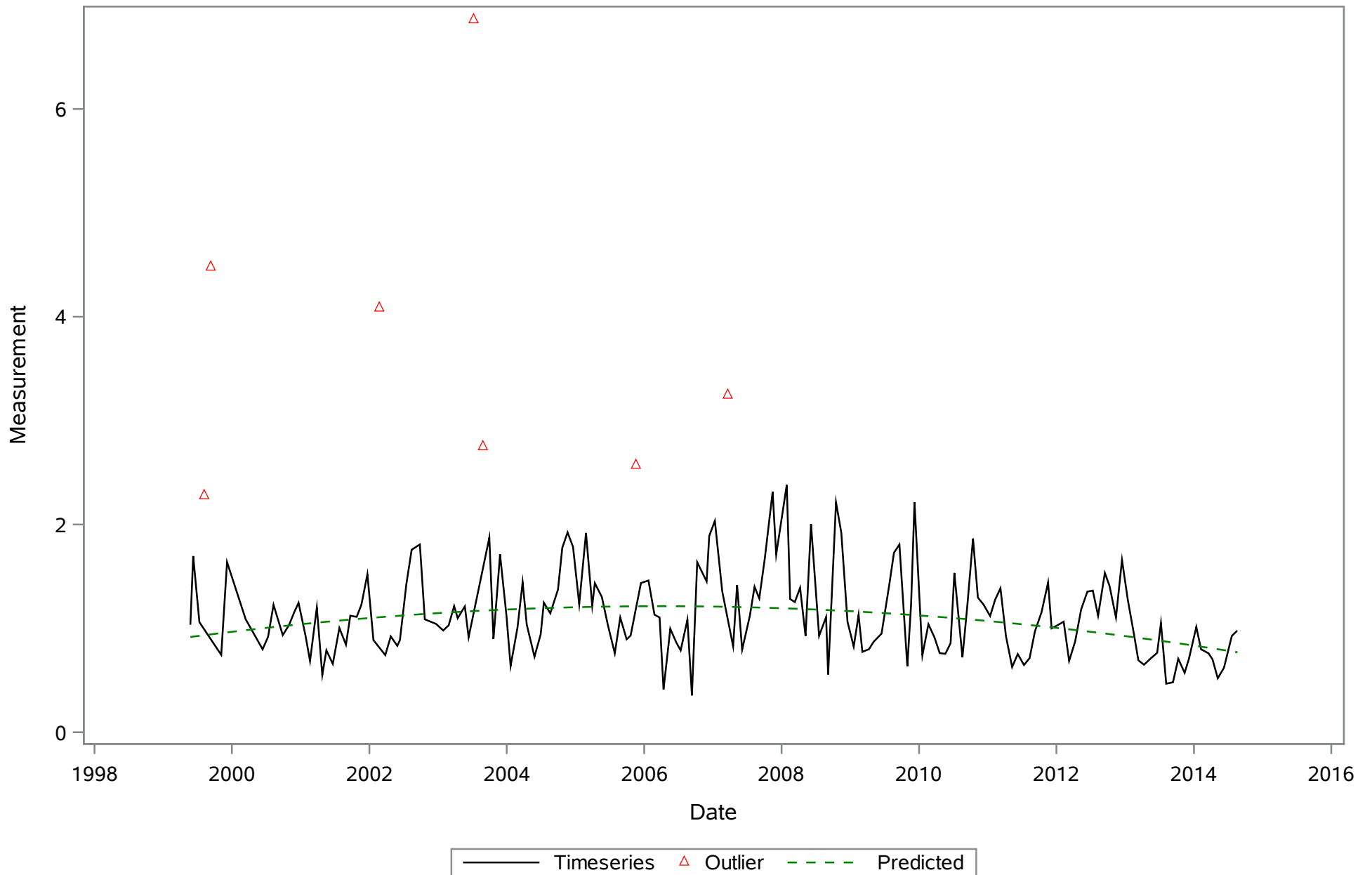


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Dissolved Oxygen (Total) mg/L

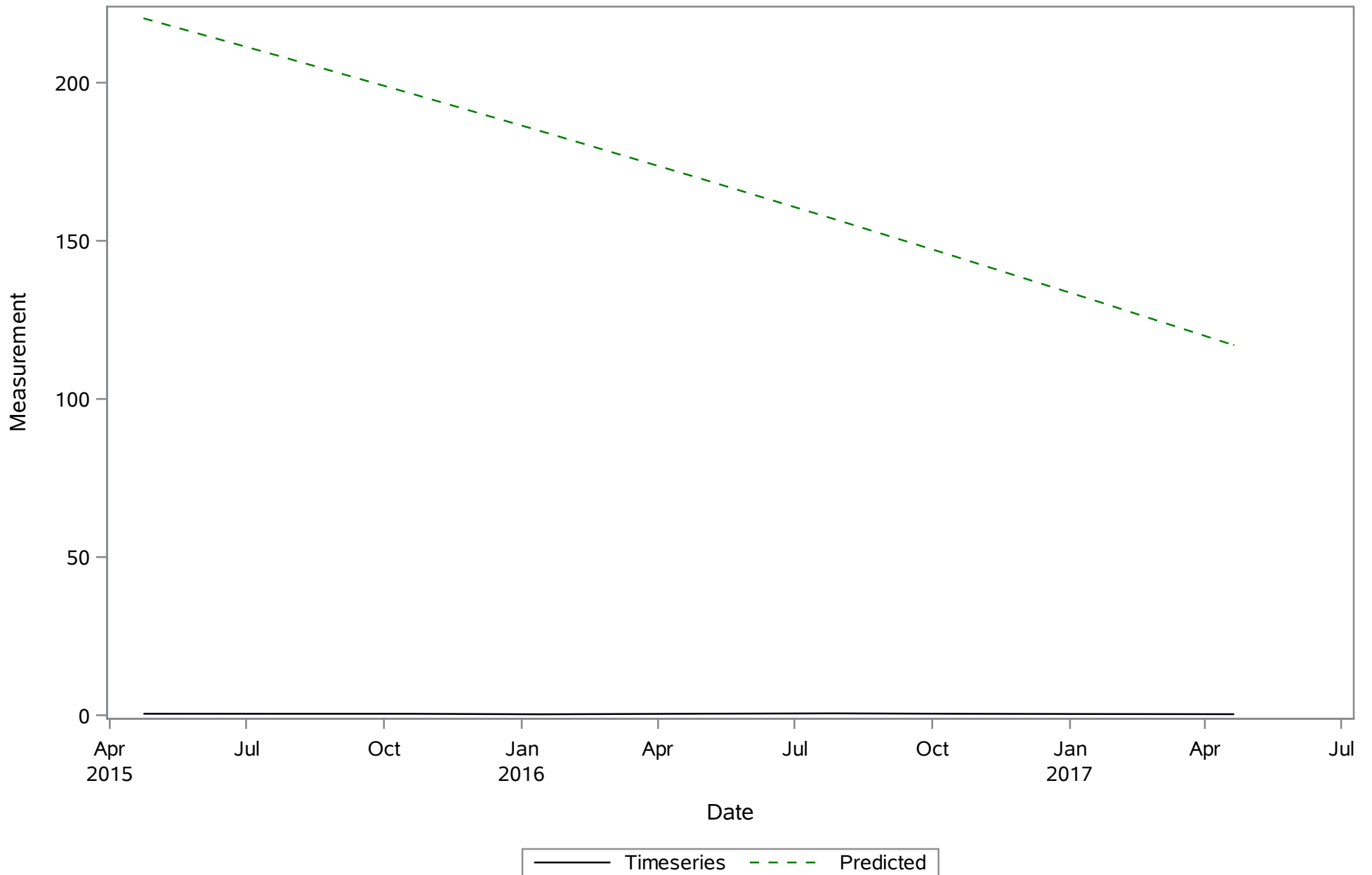


— Timeseries △ Outlier - - - Predicted

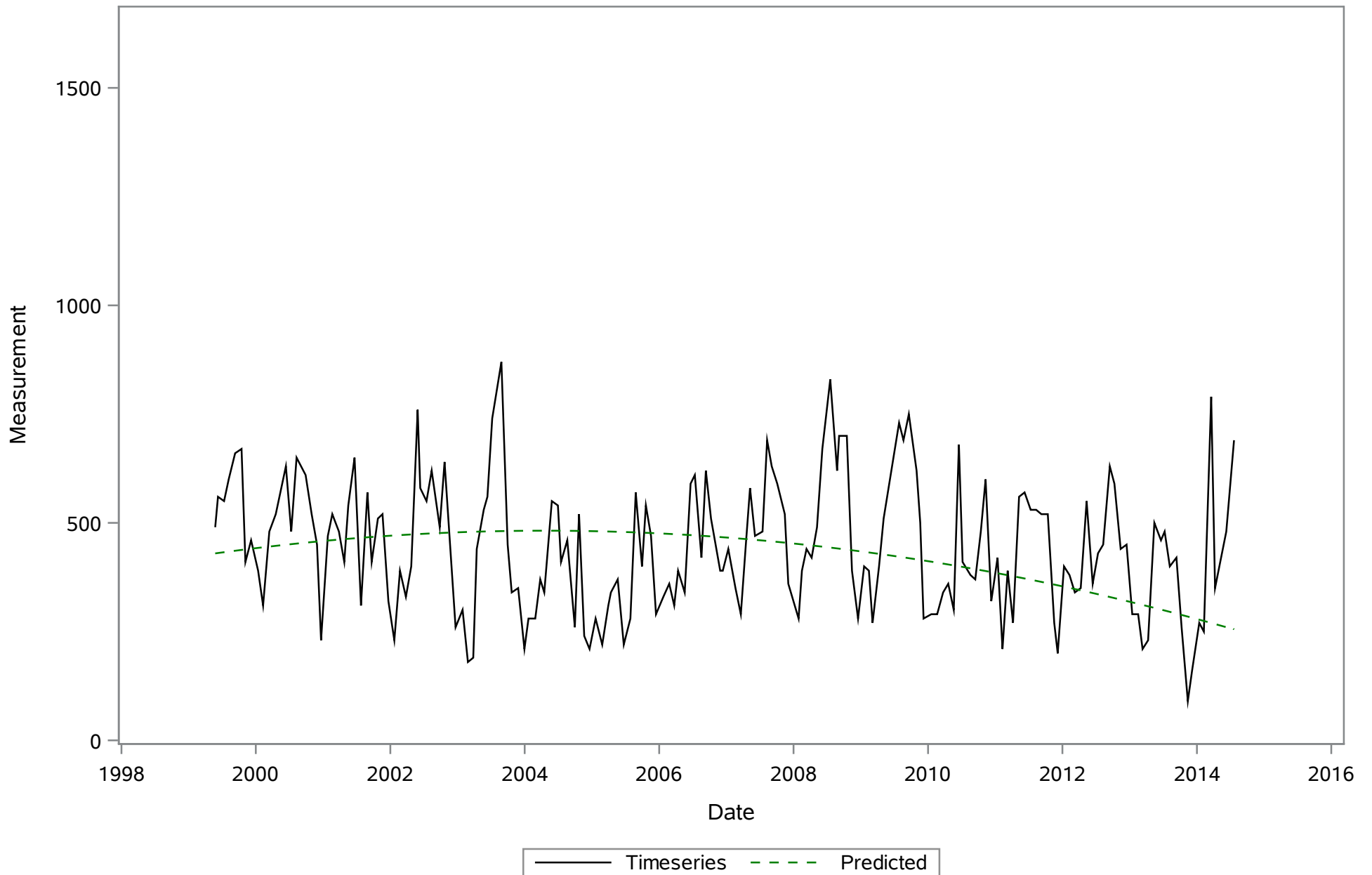
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Light, Attenuation Coefficient Kd/m



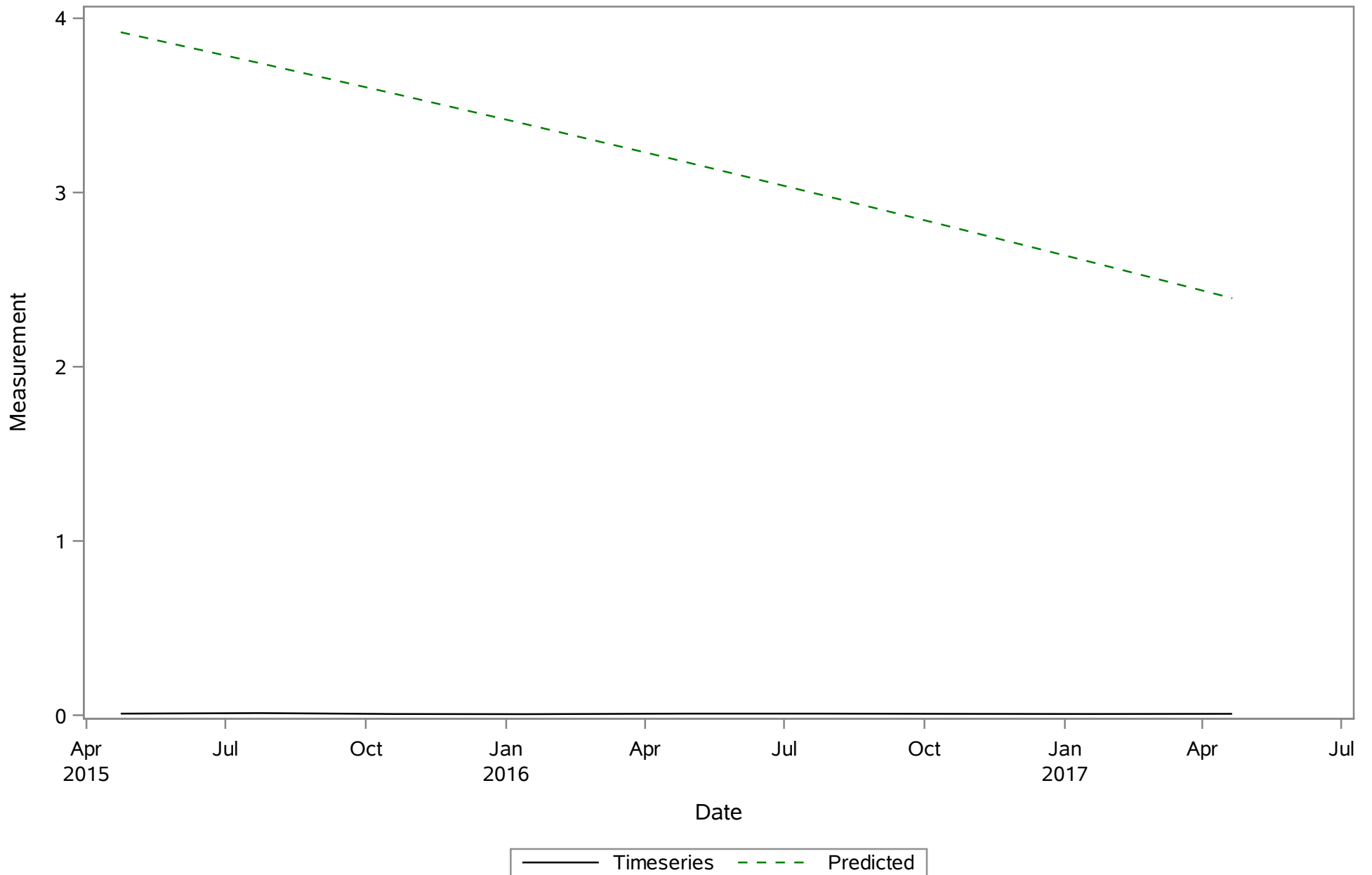
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) mg/L



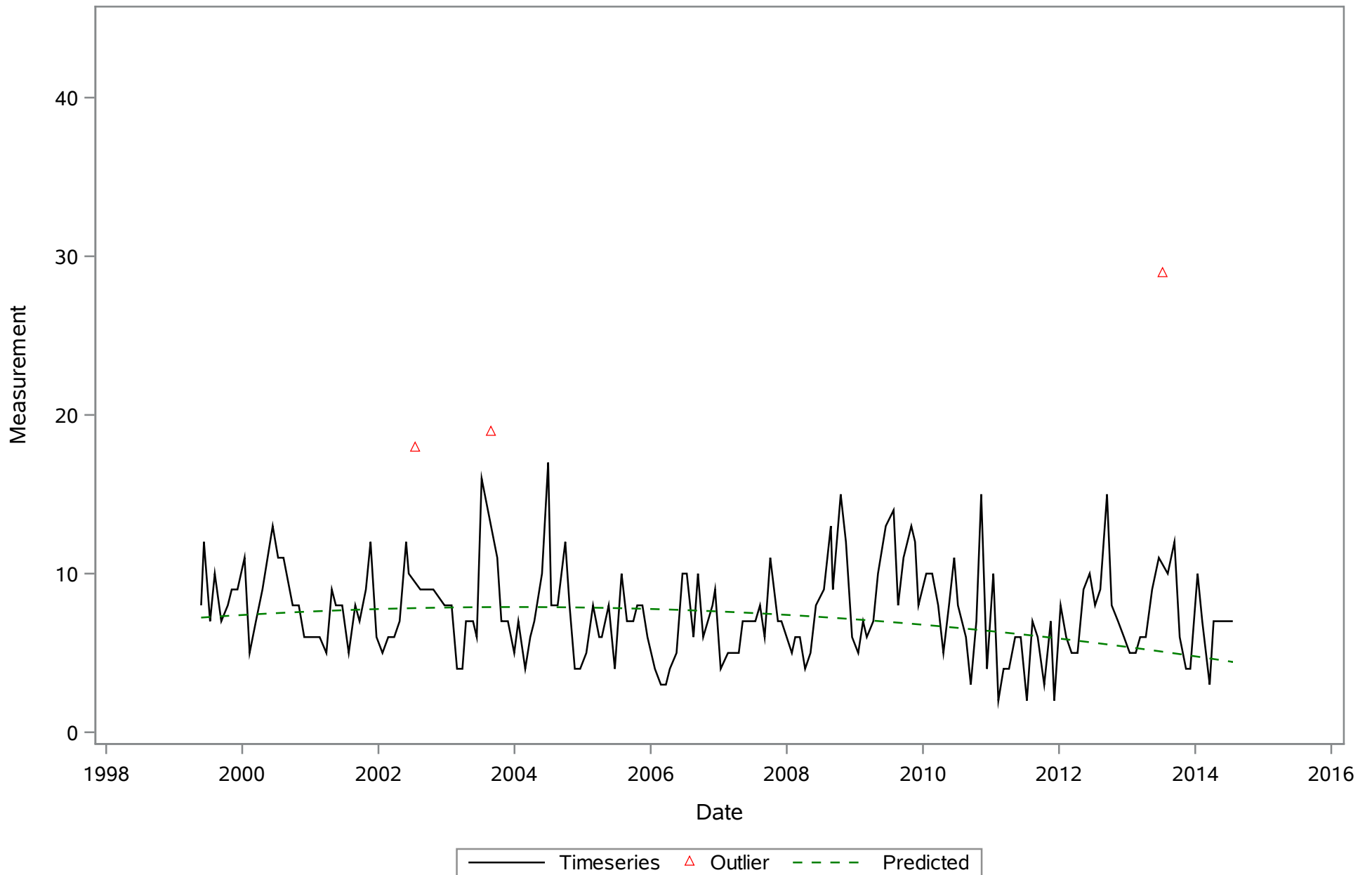
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) ug/L



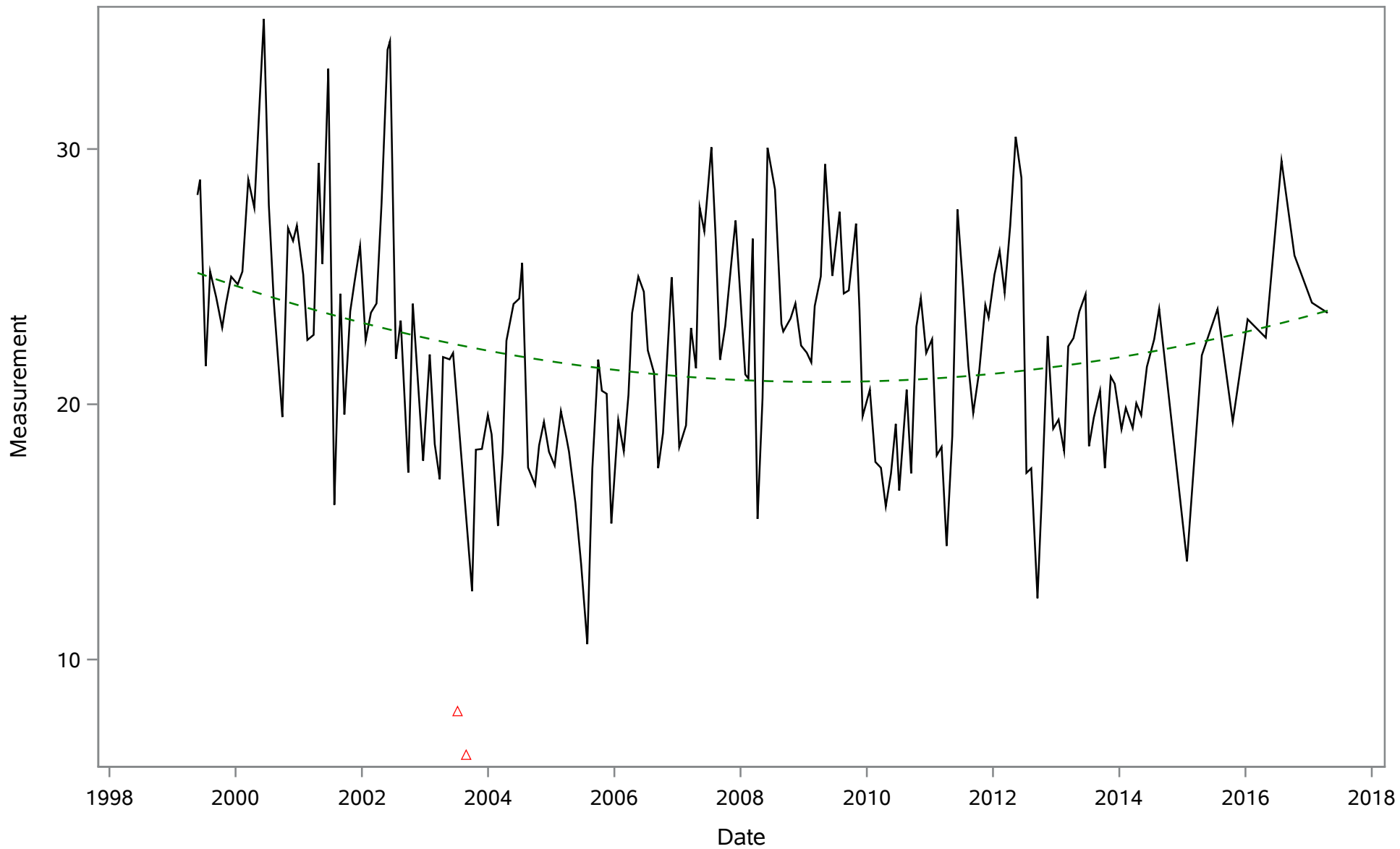
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) ug/L

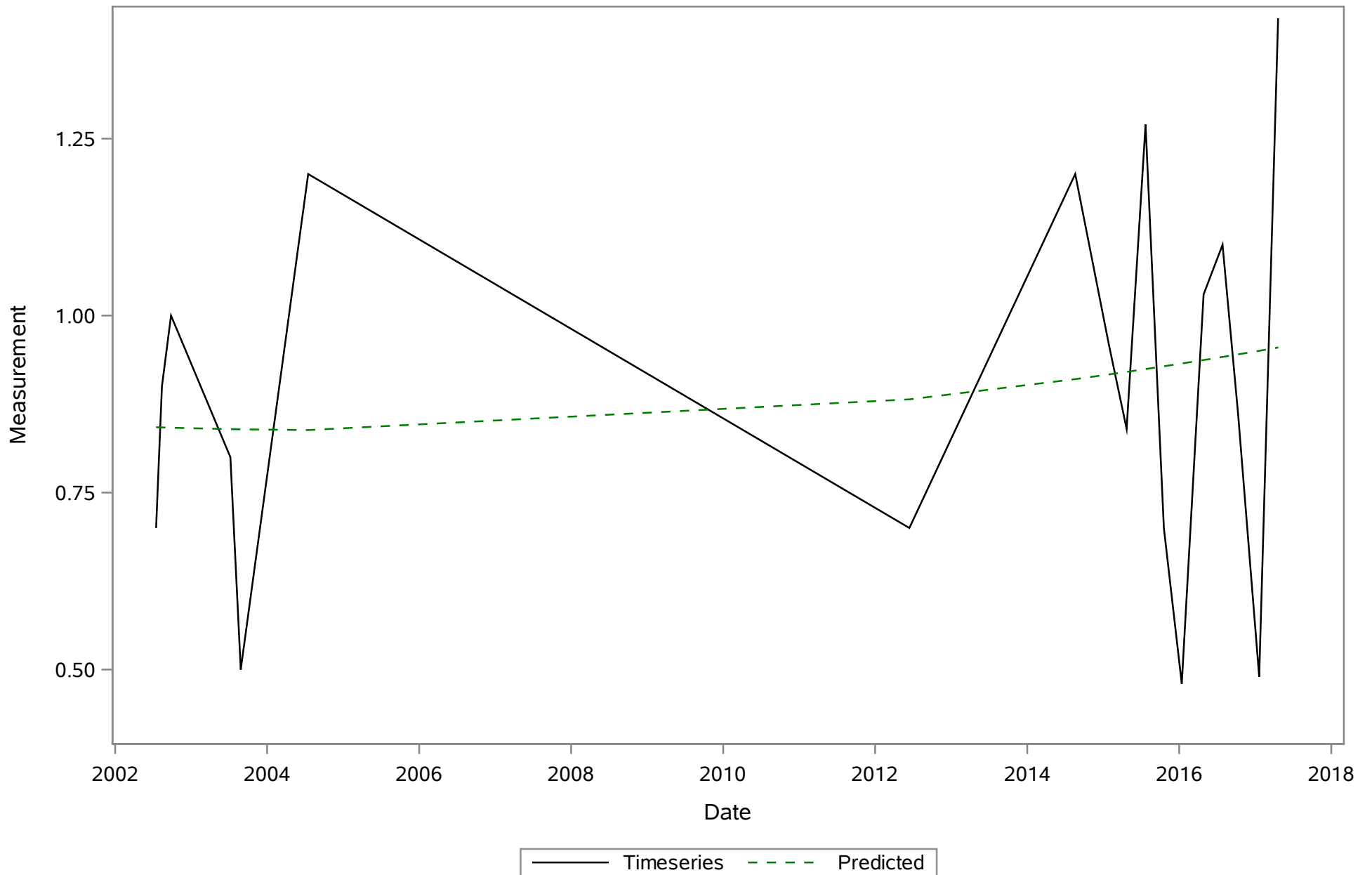


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Salinity (Total) ppt

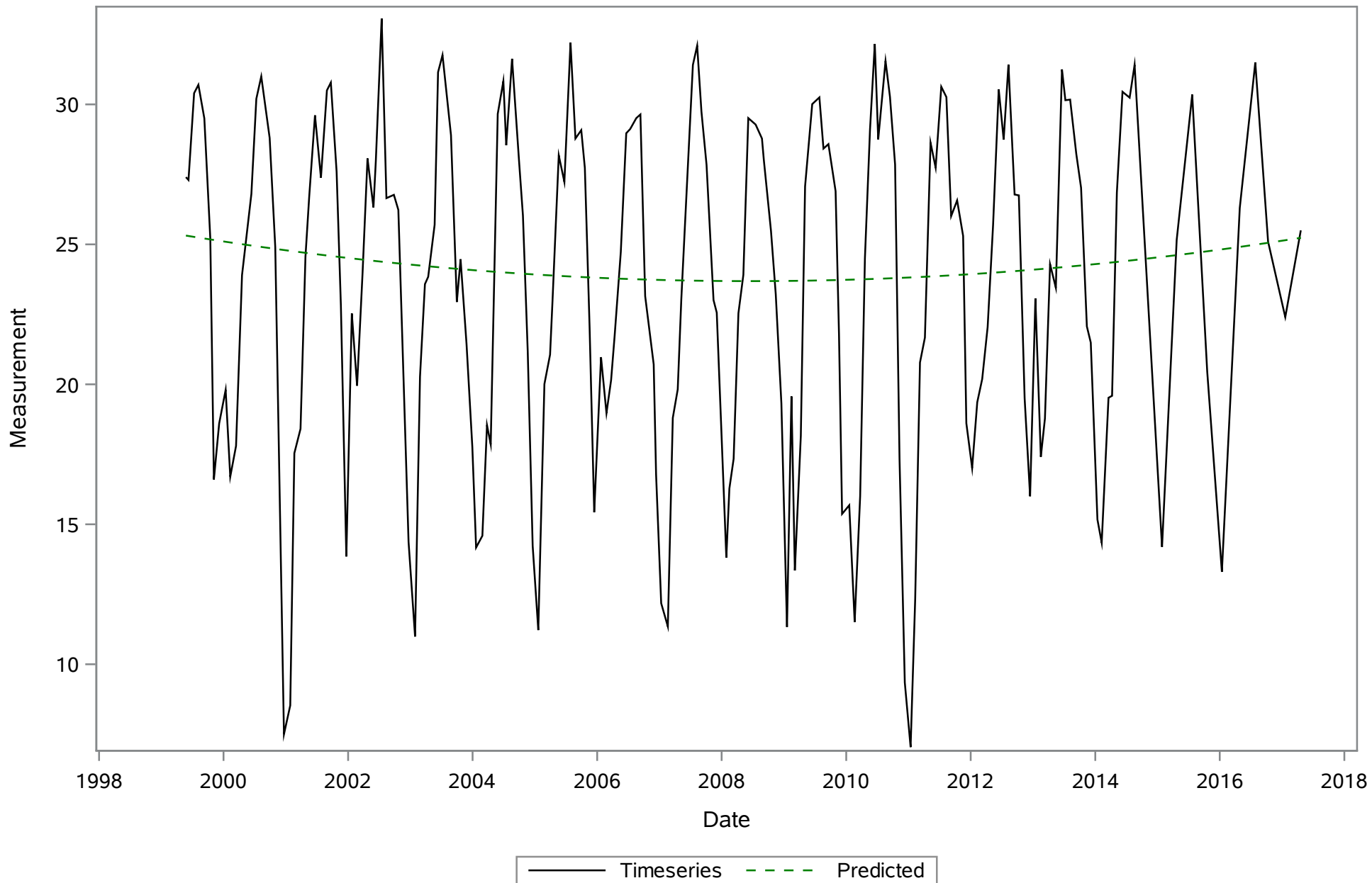


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Secchi-vertical (Total) Meters

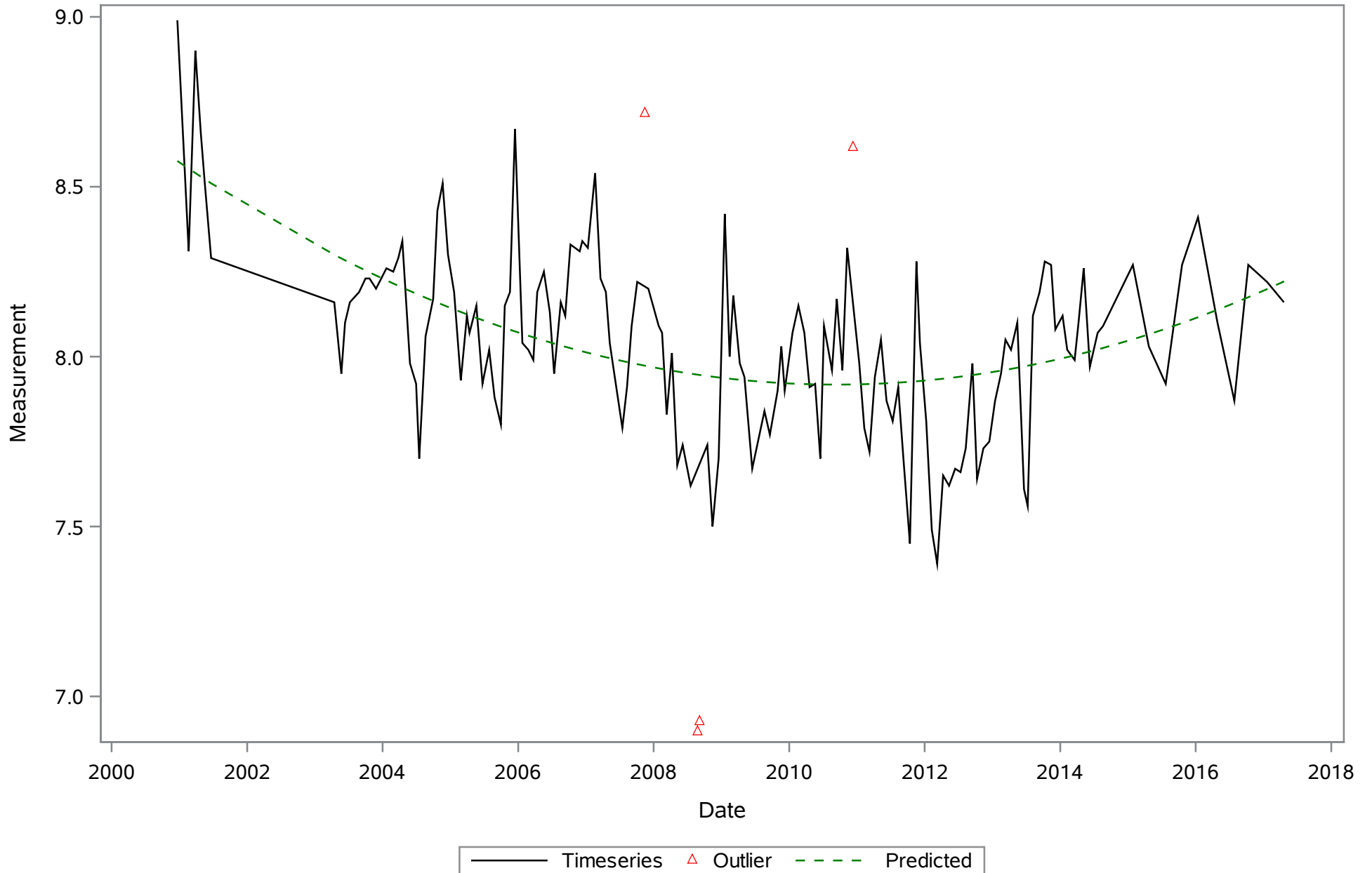


Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Temperature (Total) Deg. C

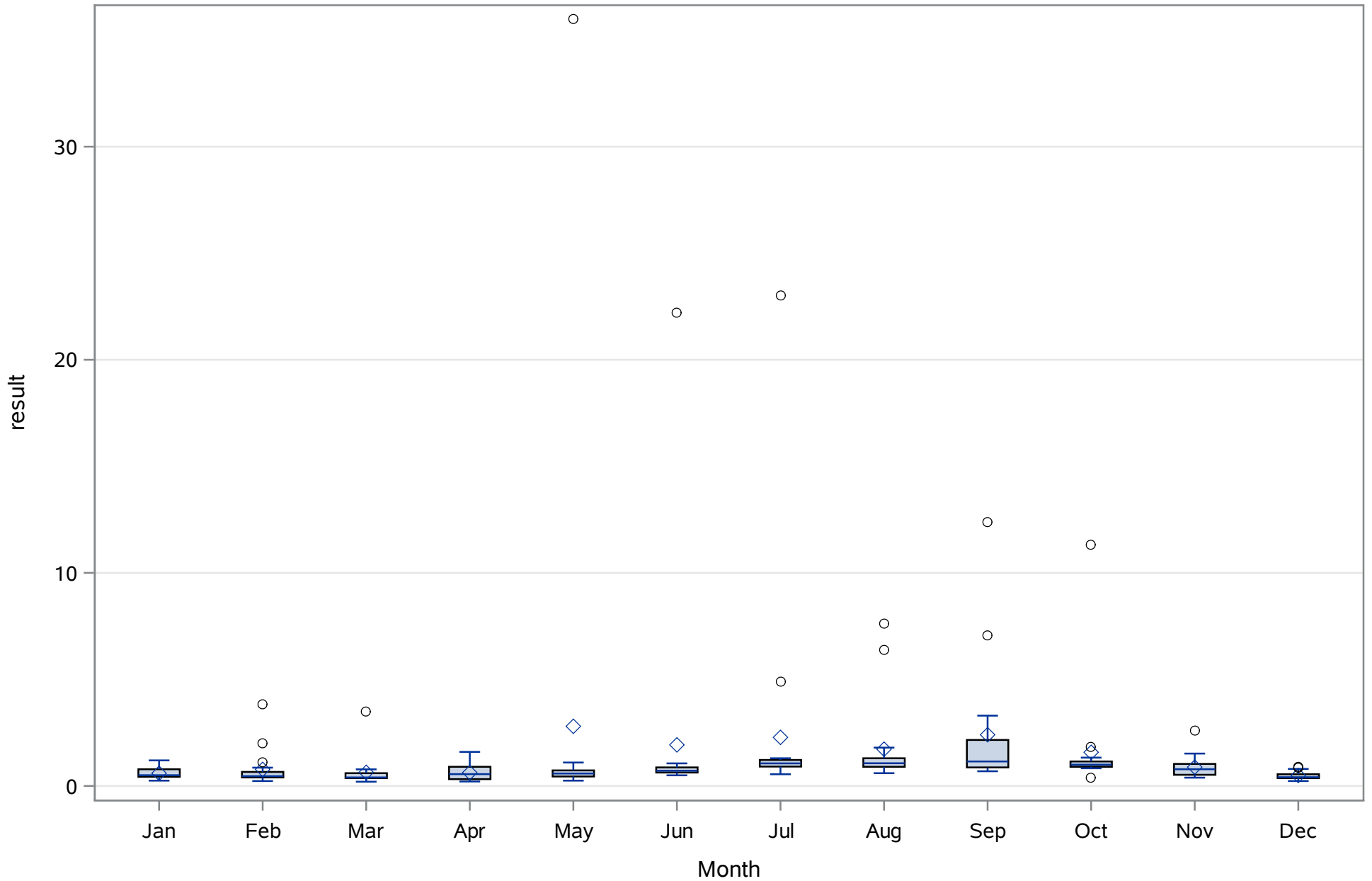


Chassahowitzka River - Fixed Station

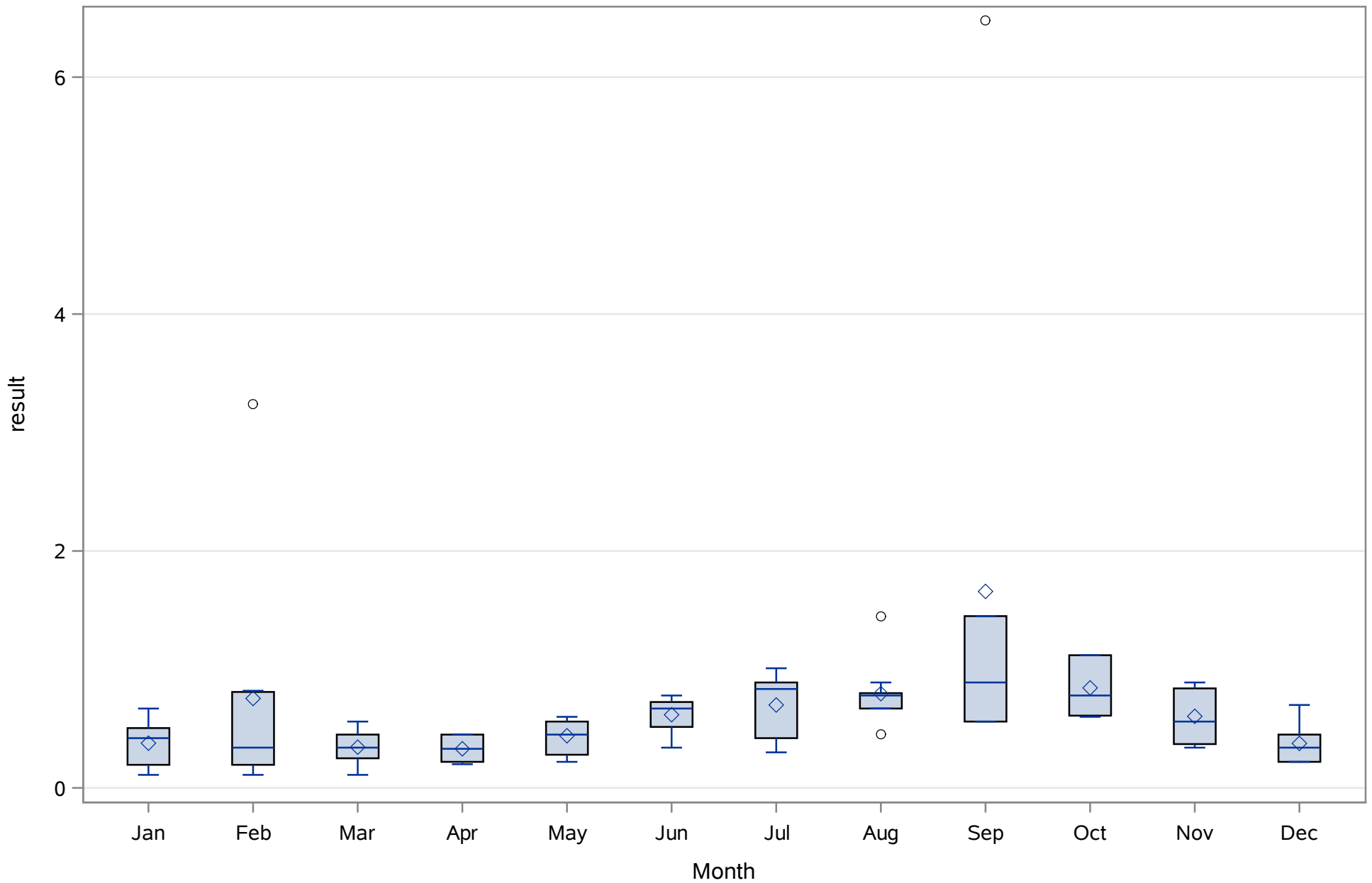
Source: COAST
Chassahowitzka Citrus 10
pH (Total) SU



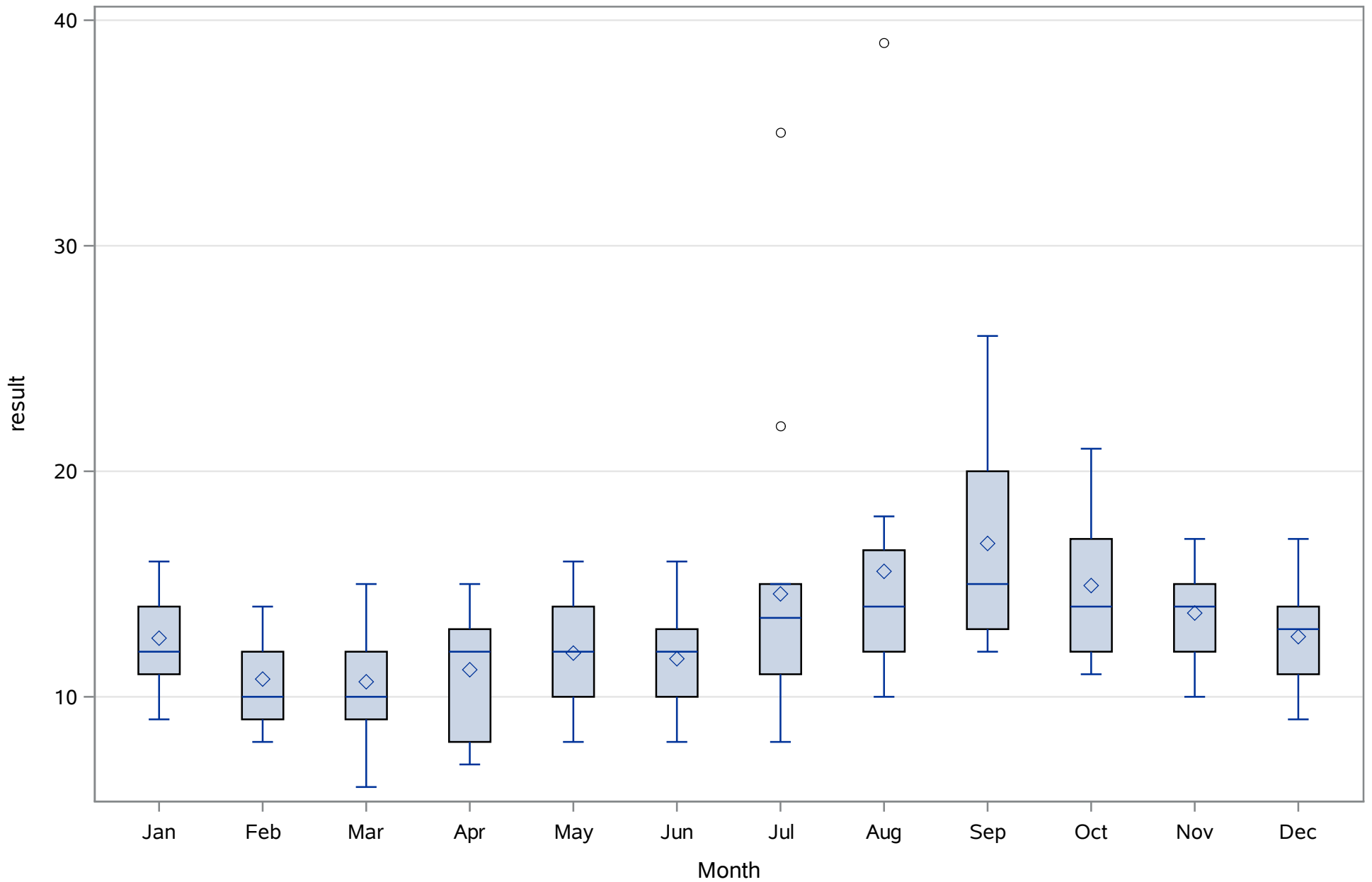
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Chlorophyll (Total) ug/L



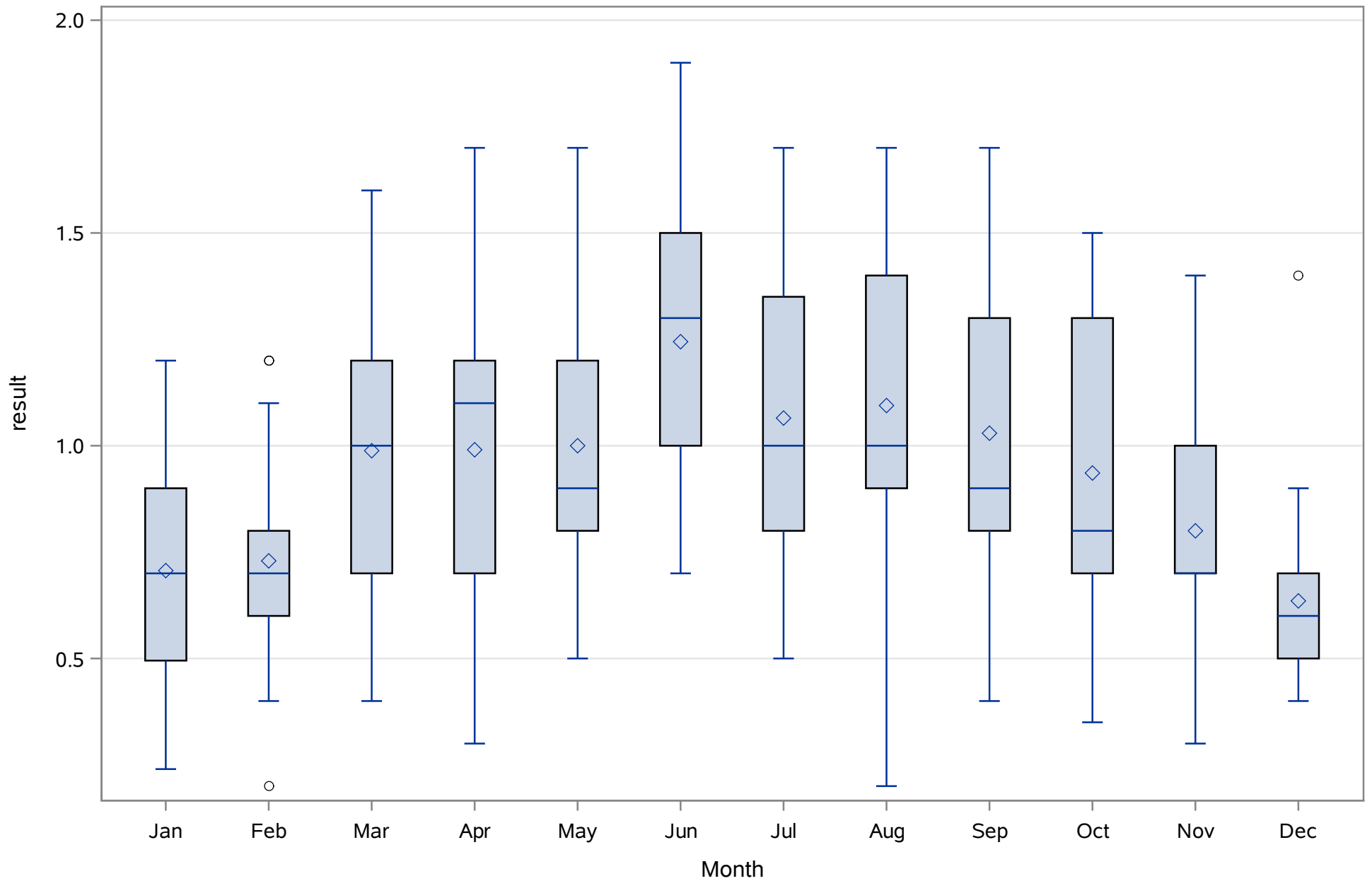
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Chlorophyll a (Total) ug/L



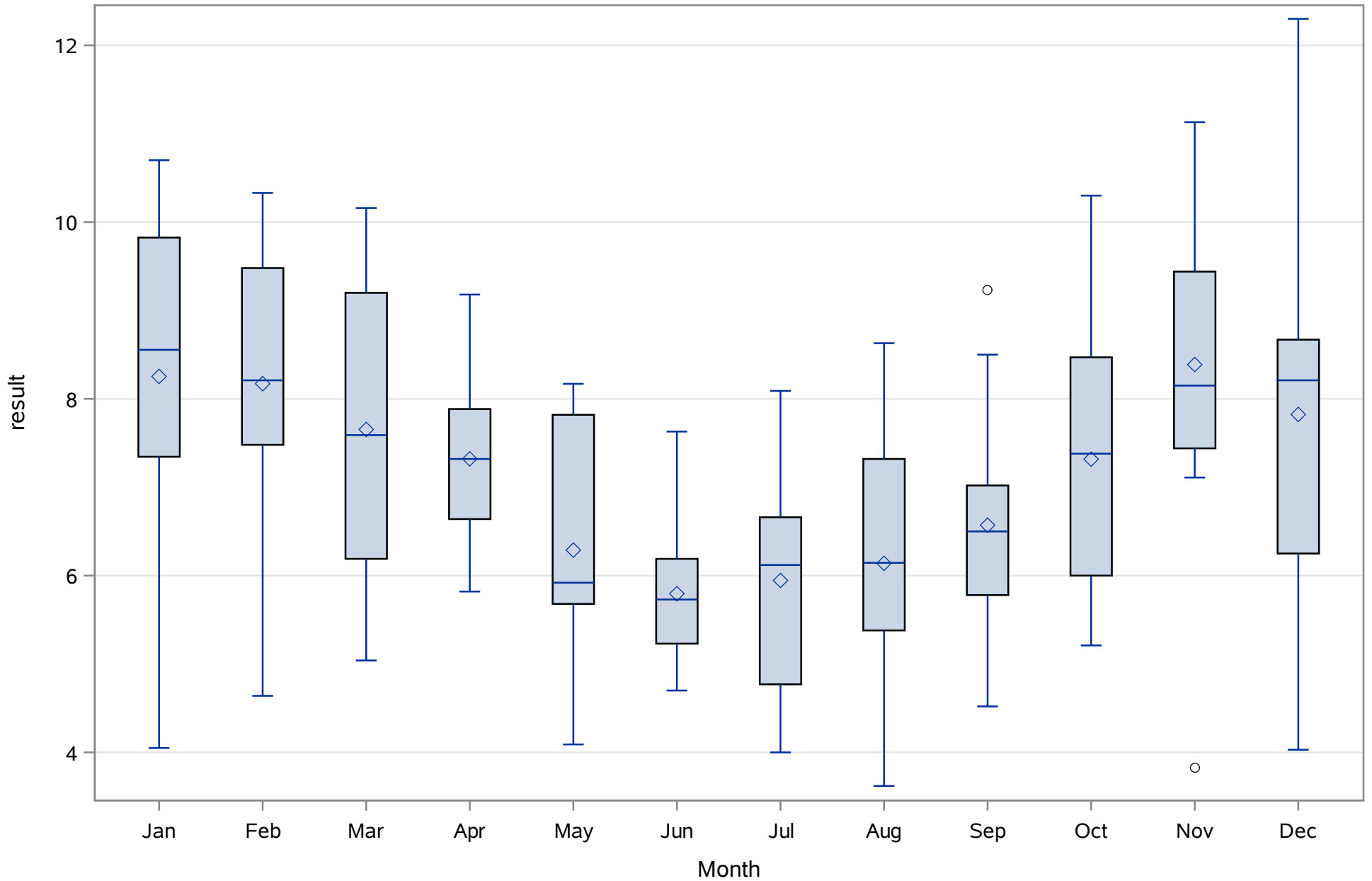
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Color (Total) PCU



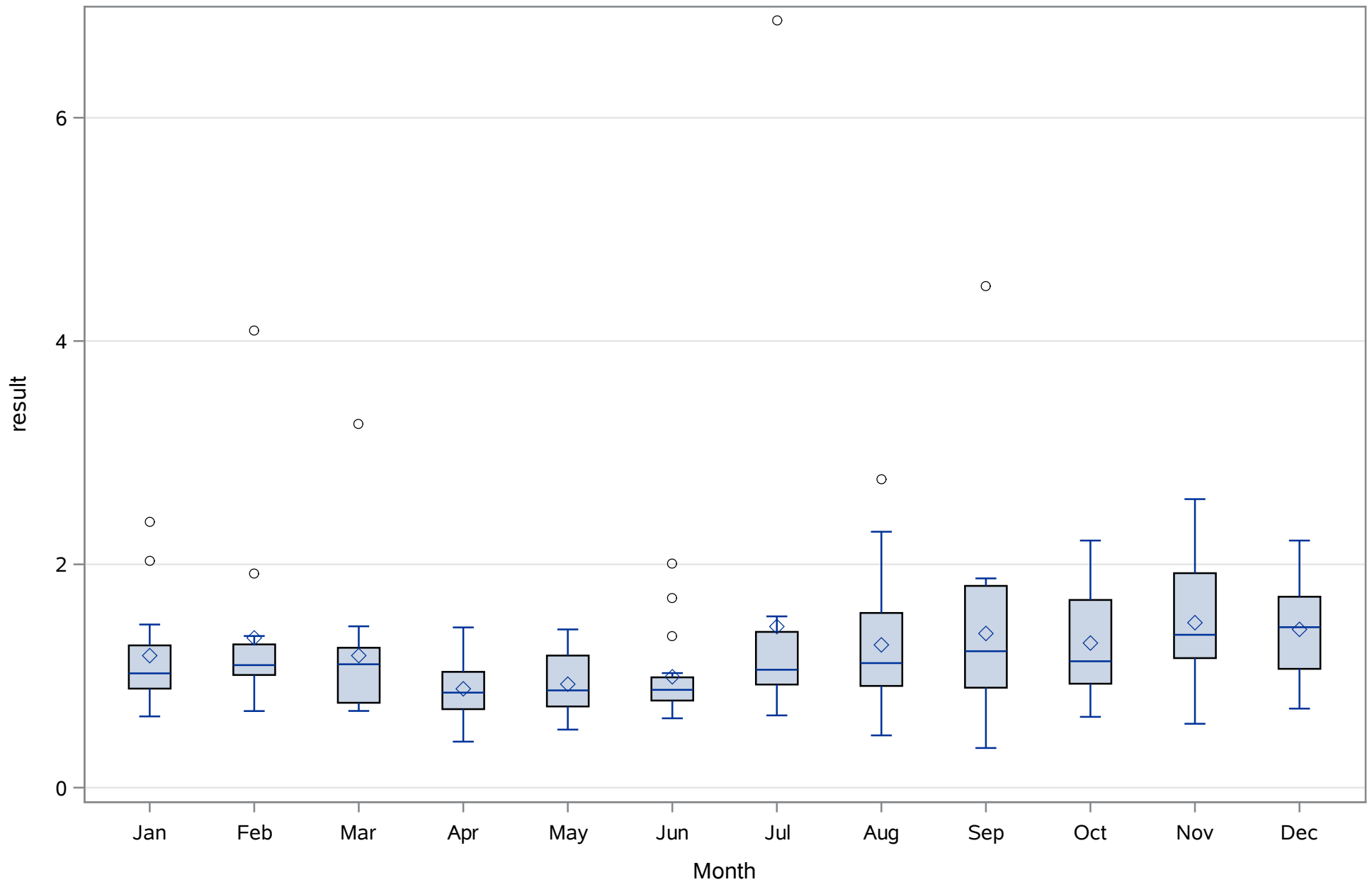
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Depth (Total) Meters



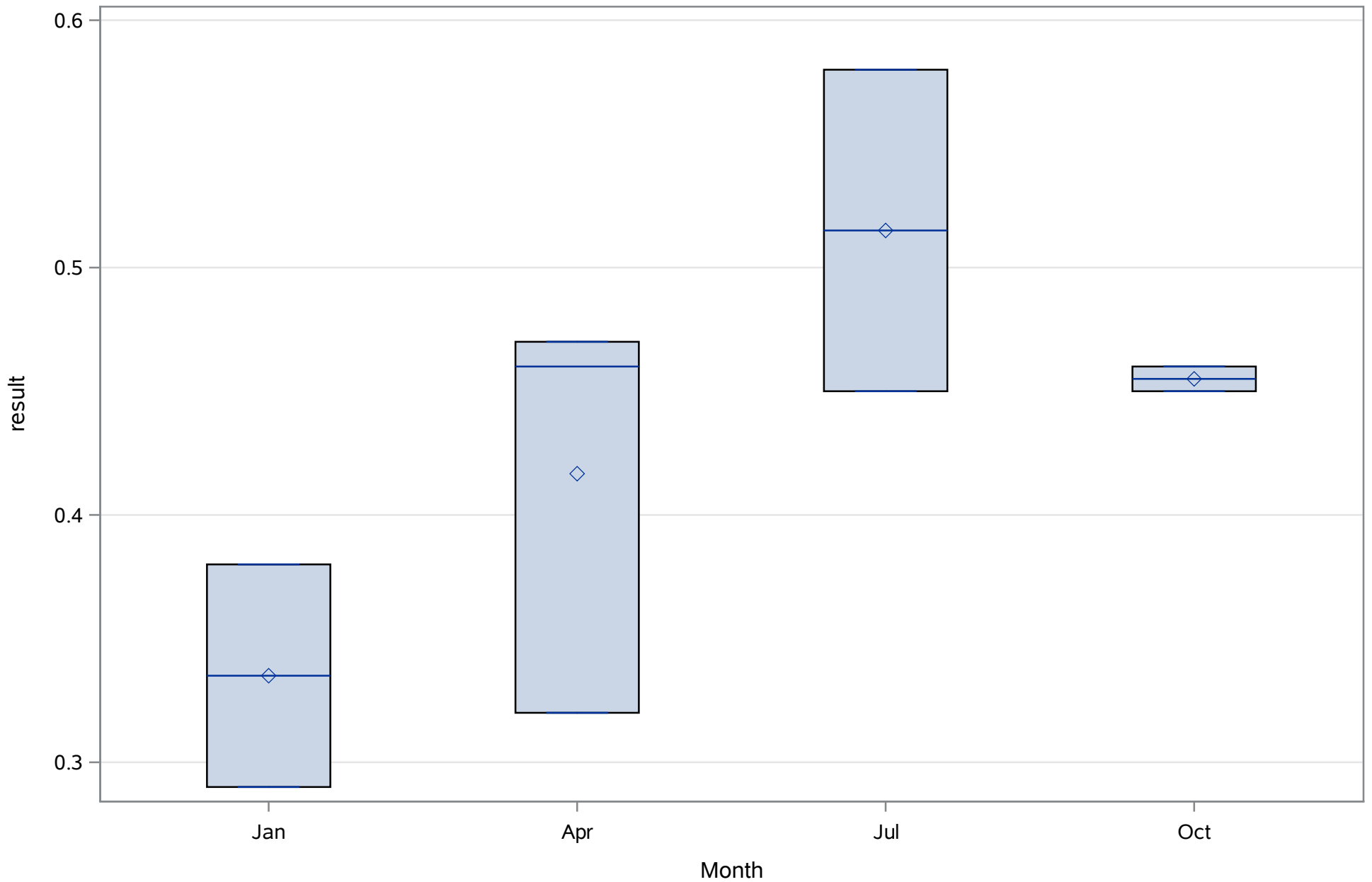
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Dissolved Oxygen (Total) mg/L



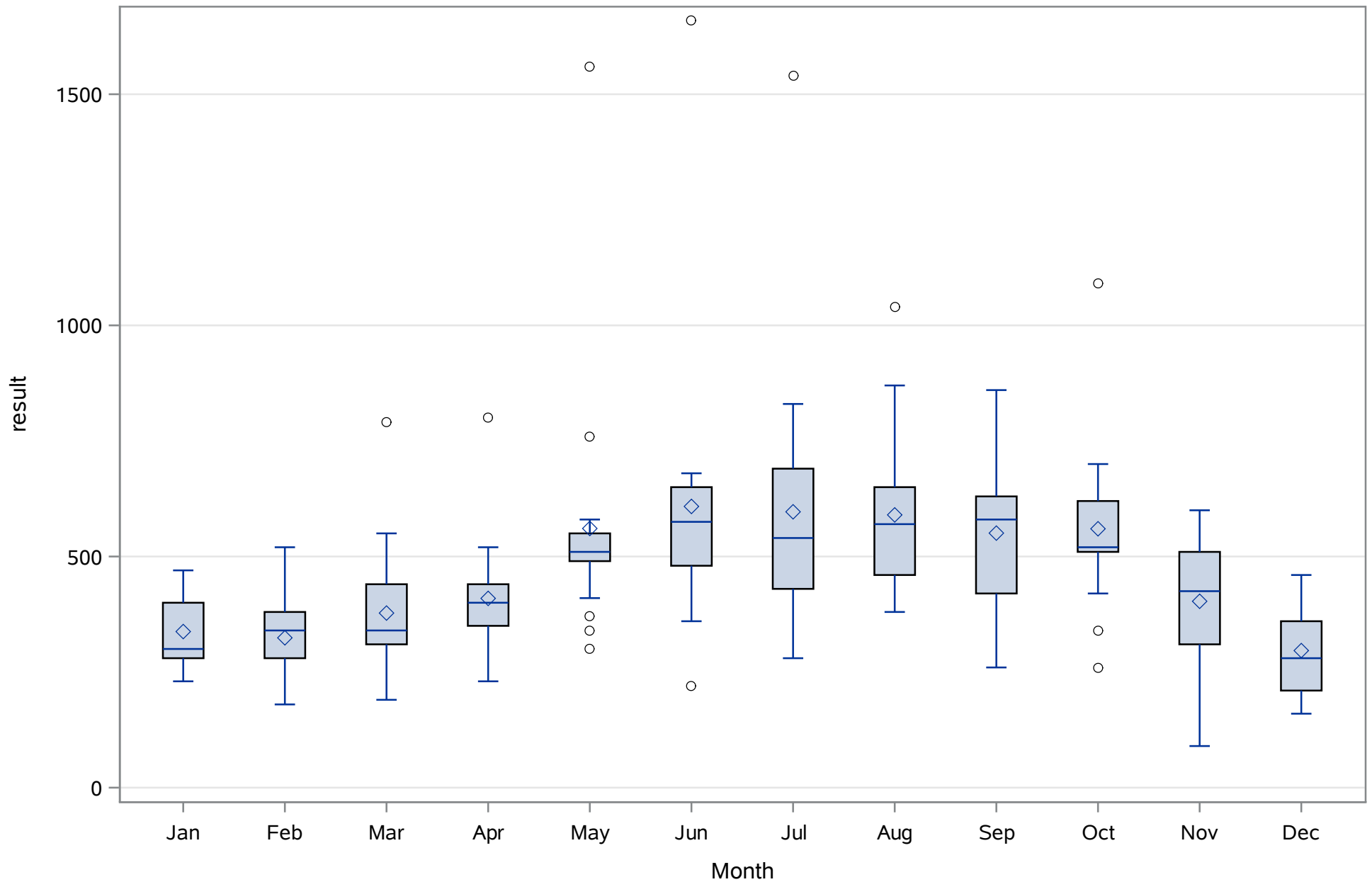
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Light, Attenuation Coefficient Kd/m



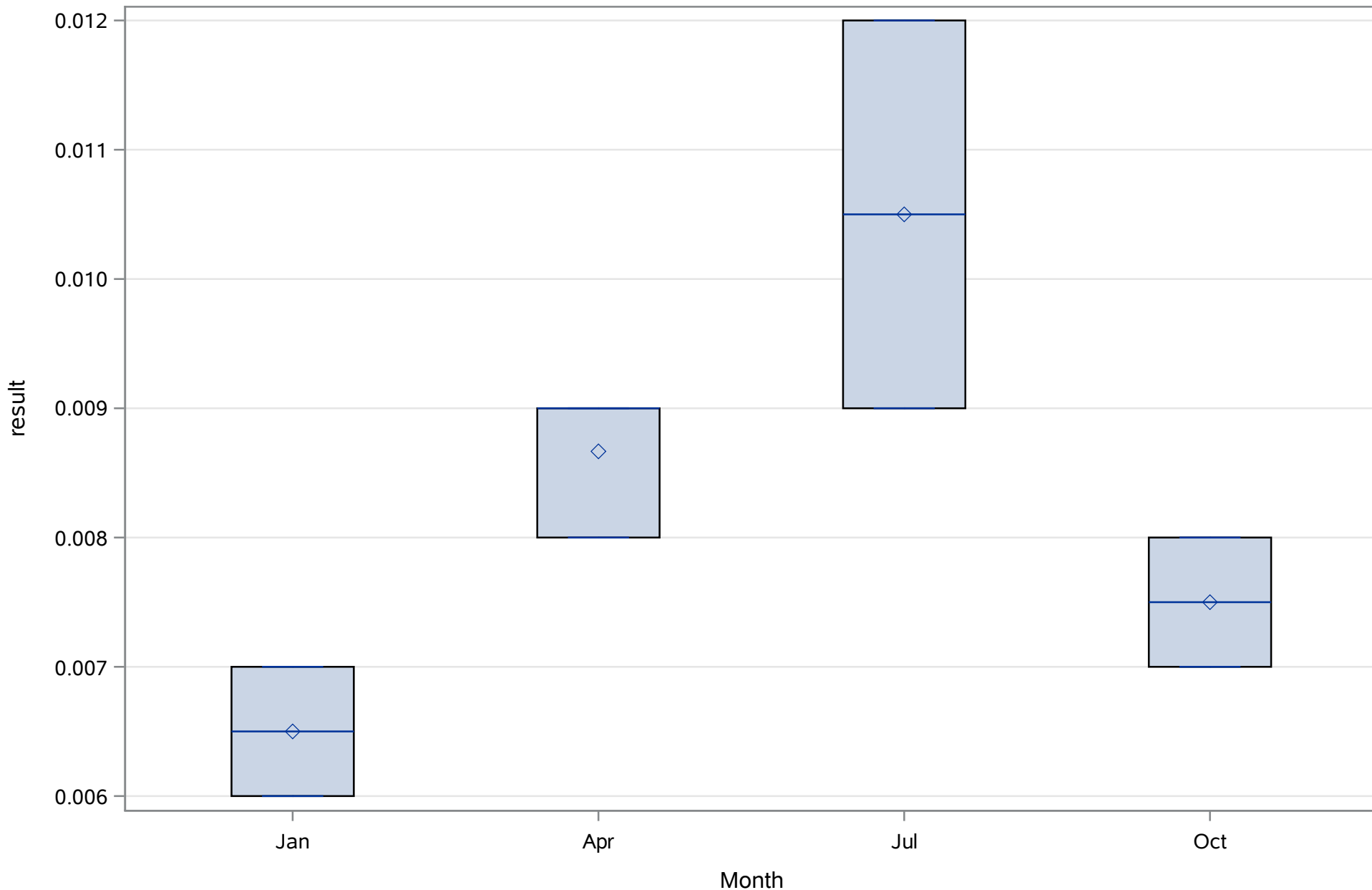
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) mg/L



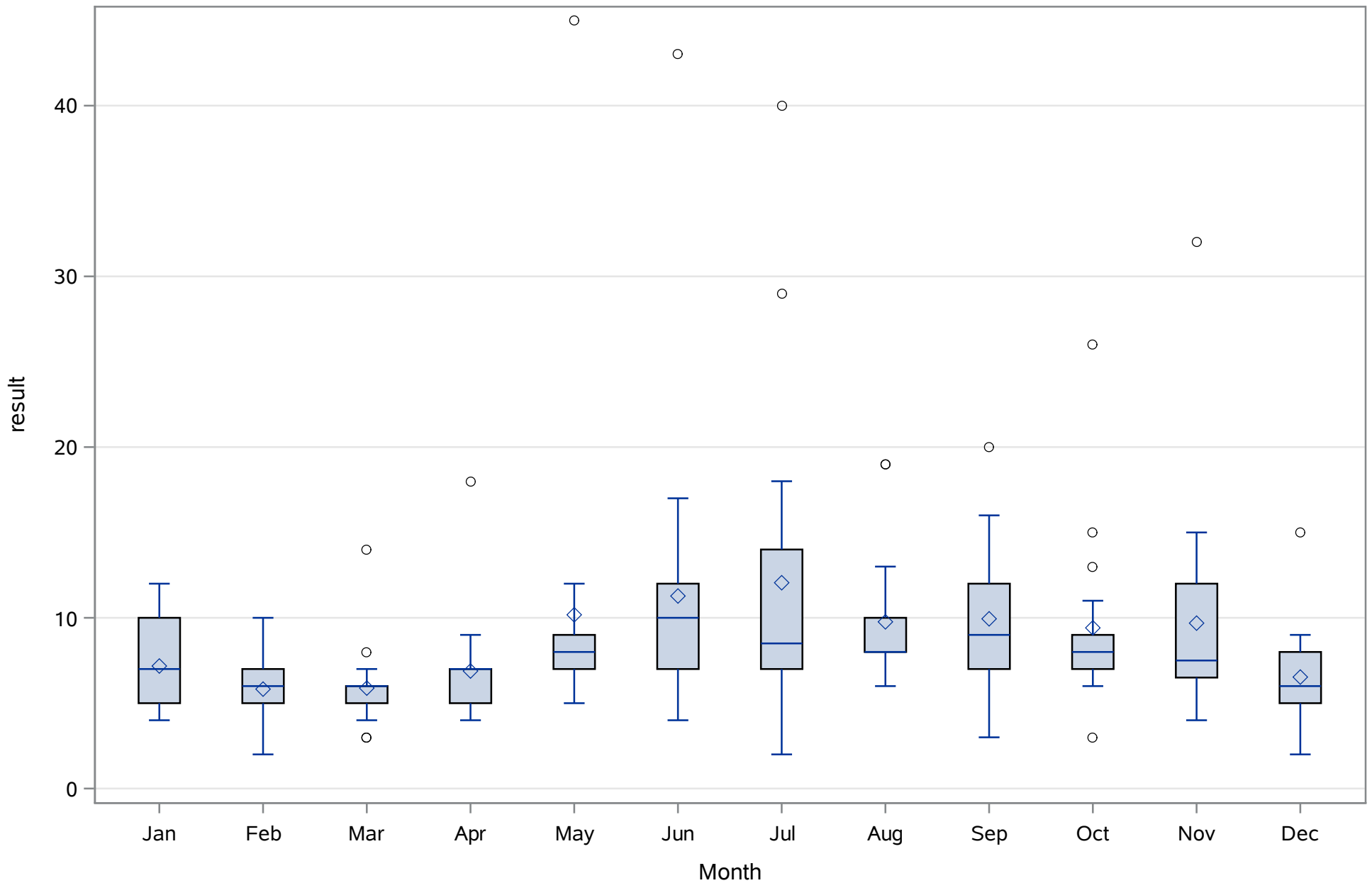
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Nitrogen- Total (Total) ug/L



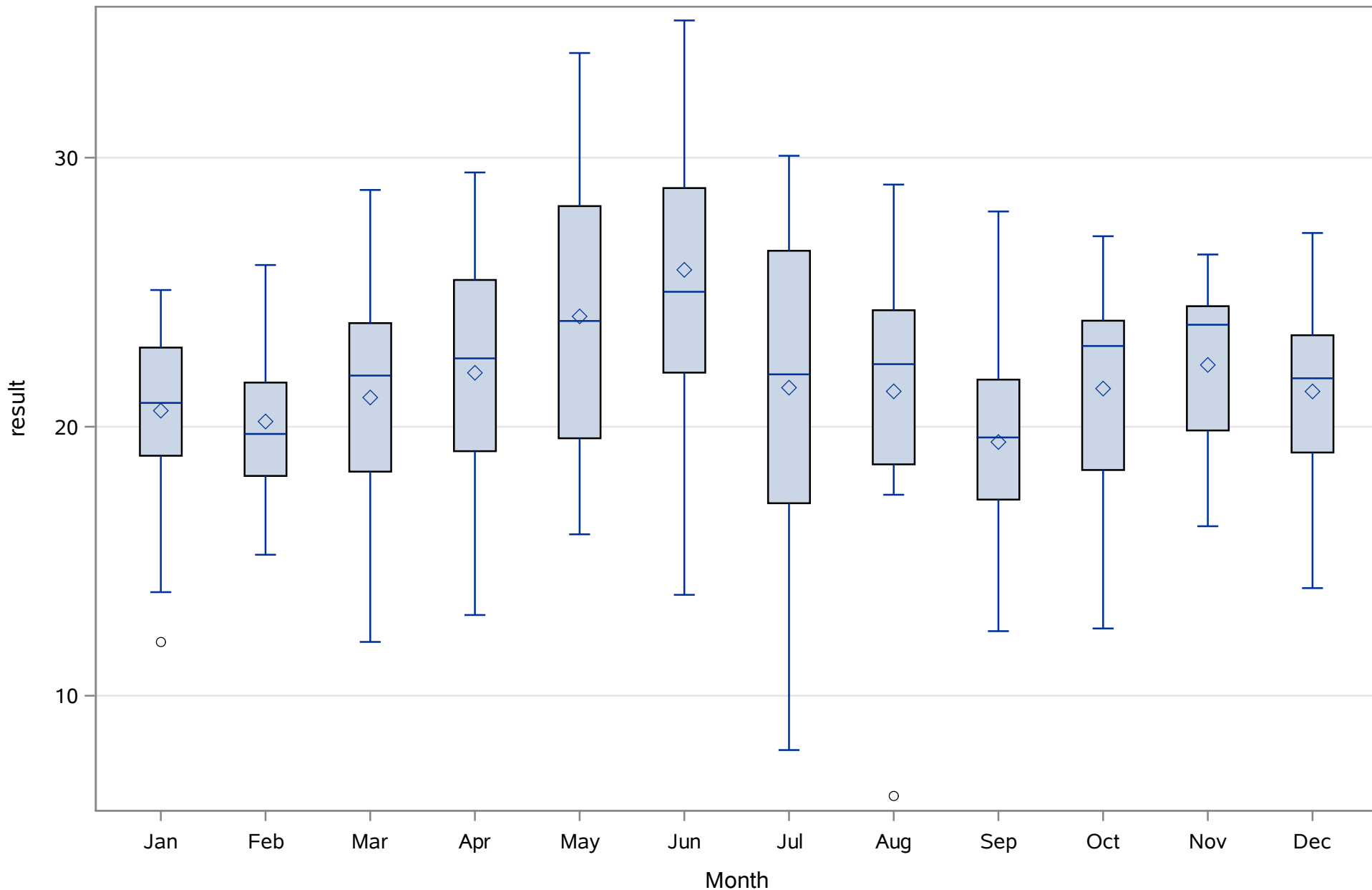
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) mg/L



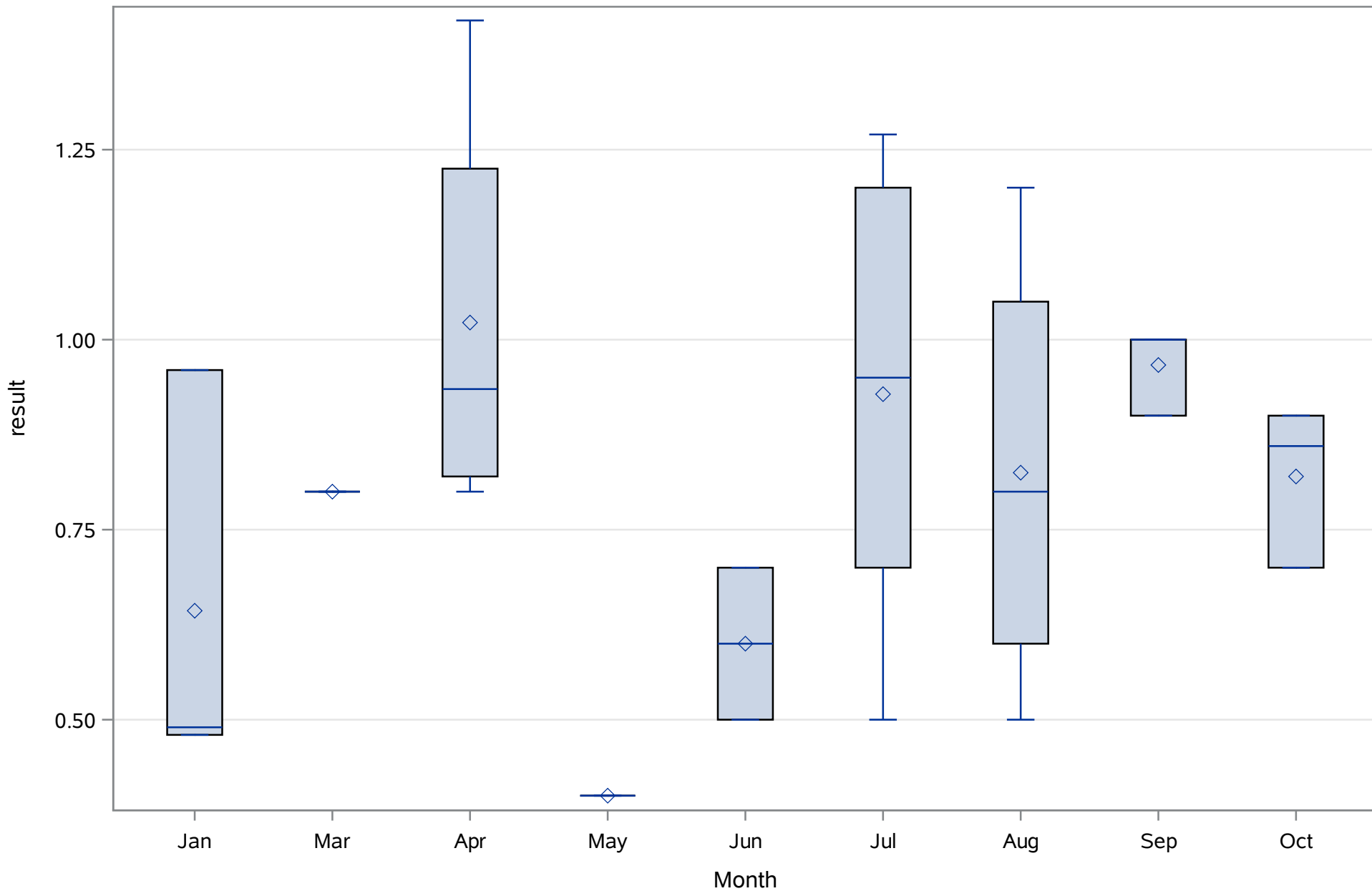
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Phosphorus- Total (Total) ug/L



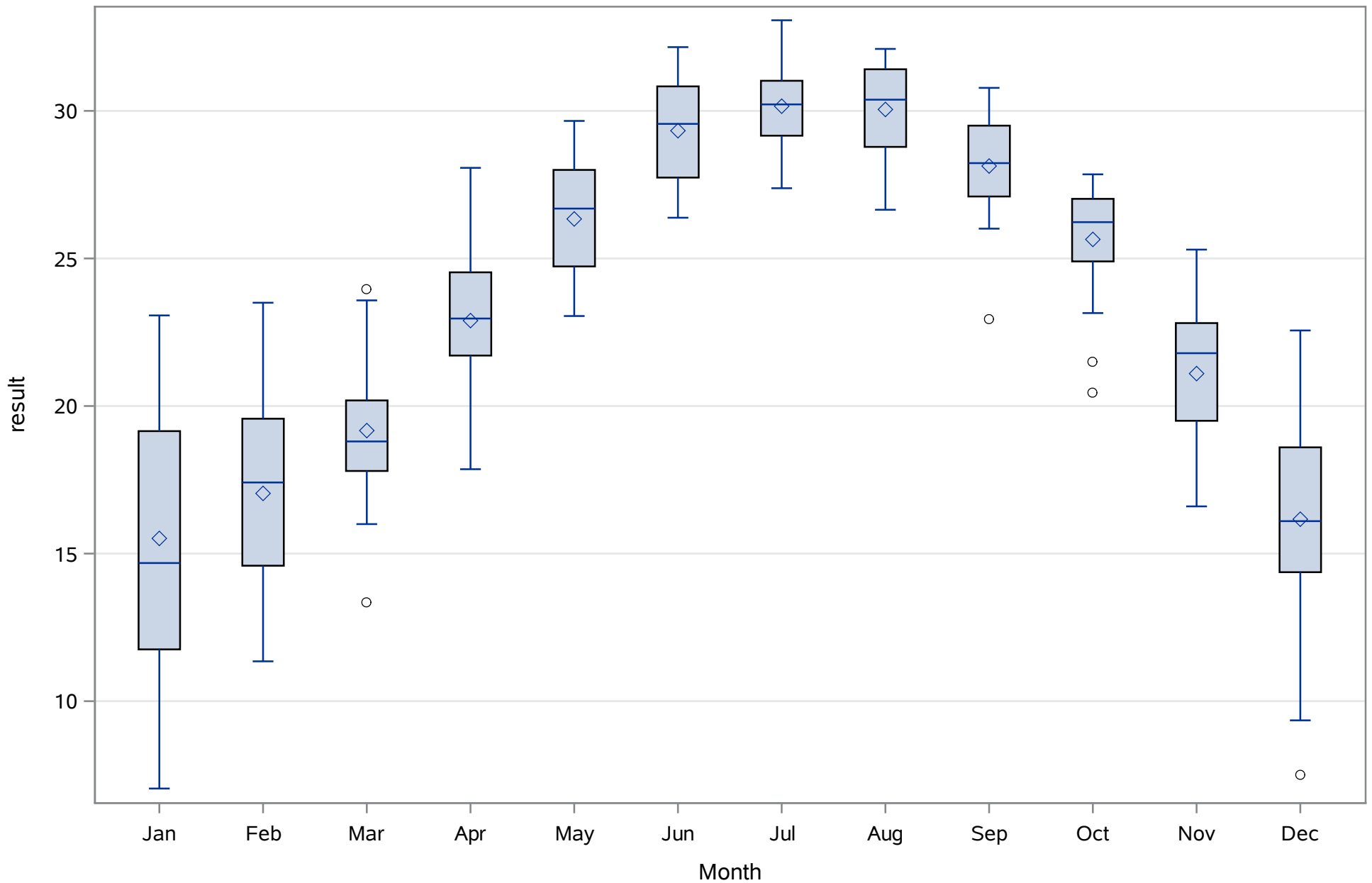
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Salinity (Total) ppth



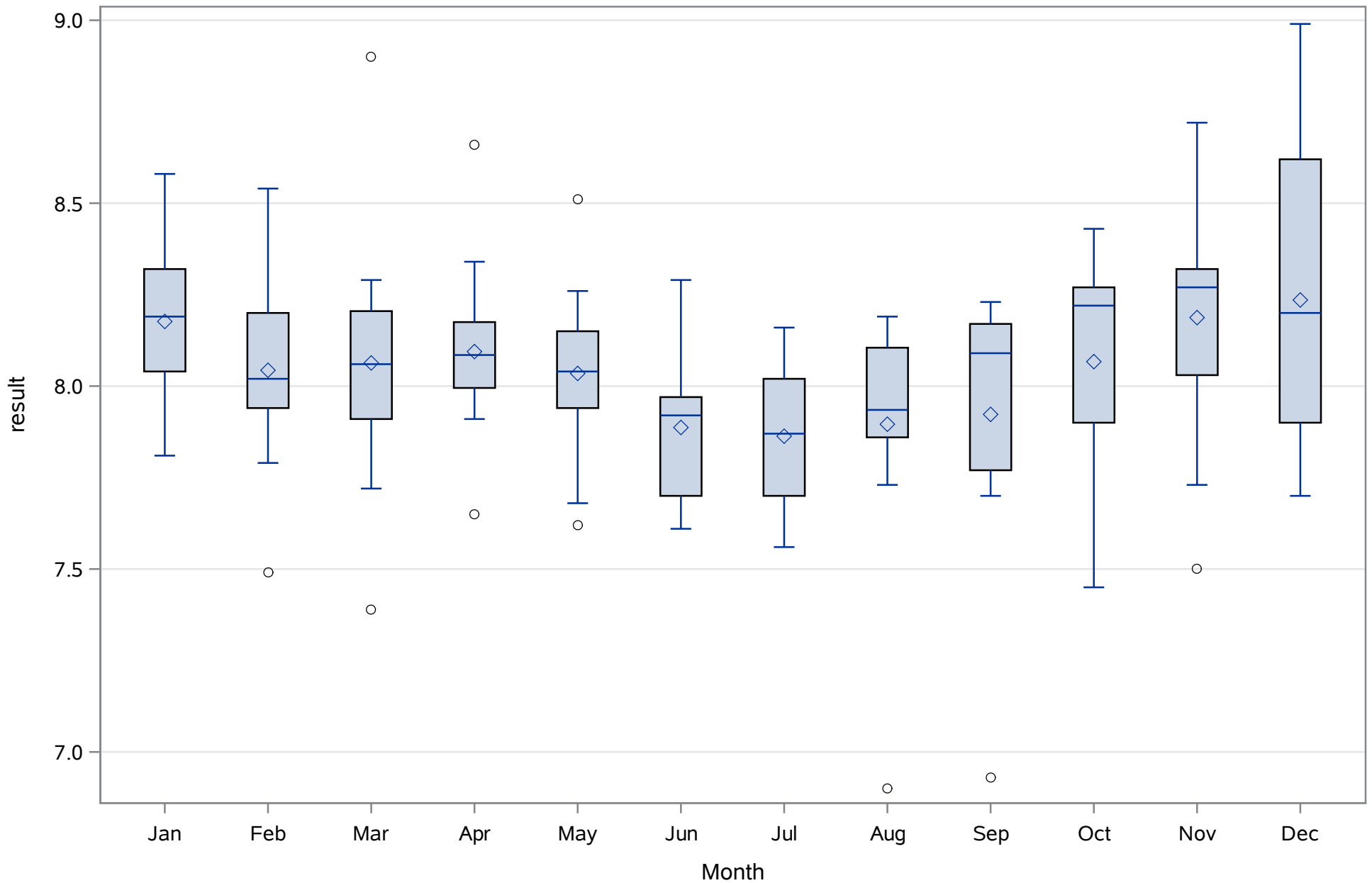
Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: COAST
Chassahowitzka Citrus 10
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
1-Methylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
1-Methylphenanthrene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,3,5-Trimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,6-Dimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2-Methylnaphthalene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Acenaphthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Acenaphthylene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Alkalinity (Total)	mg/L	OCT1993	JUL2017	63	3.2%	0.0%	1.6%
Aluminum (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Ammonia (N) (Dissolved)	mg/L	OCT1993	JAN2010	39	5.1%	0.0%	2.6%
Ammonia (N) (Total)	mg/L	JAN2001	JUL2017	32	0.0%	0.0%	0.0%
Anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(a)anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(a)pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(b)fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(g,h,i)perylene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(k)fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Bicarbonate (Total)	mg/L	JUL1994	JAN1999	4	0.0%	0.0%	0.0%
Biphenyl	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Boron (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1993	JUL2017	69	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	JAN1999	JAN1999	1	0.0%	0.0%	100.0%
Carbon- Total Organic (Total)	mg/L	OCT1993	JUL2017	69	7.2%	0.0%	2.9%
Chloride (Dissolved)	mg/L	OCT1993	JUL2017	69	0.0%	0.0%	0.0%
Chrysene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Color (Dissolved)	PCU	APR2010	JUL2017	30	0.0%	0.0%	0.0%
Depth (Total)	Meters	JUL2007	JAN2010	6	0.0%	0.0%	0.0%
Dibenzo(a,h)anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dibenzothiophene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dissolved Oxygen (Total)	mg/L	JAN2002	JUL2017	50	4.0%	0.0%	2.0%
Eh, Field (hydrogen electrode)	mV	JAN2002	JAN2002	1	0.0%	0.0%	100.0%
Fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Fluorene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Fluoride (Dissolved)	mg/L	OCT1993	JUL2017	62	9.7%	0.0%	1.6%
Fluoride (Total)	mg/L	OCT1993	JAN2003	10	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	JAN1999	JAN2000	2	0.0%	0.0%	0.0%
Indeno(1,2,3-cd)pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Iron (Dissolved)	ug/L	OCT1993	JUL2017	69	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	OCT1993	JUL2017	62	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	OCT1993	JAN2000	8	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Naphthalene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Nitrate (N) (Dissolved)	mg/L	OCT1993	JAN2005	16	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	FEB1996	JAN1999	4	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	OCT1993	JAN2010	35	2.9%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2002	JUL2017	31	6.5%	0.0%	3.2%
Nitrite (N) (Dissolved)	mg/L	OCT1993	JAN2010	28	14.3%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN1999	JUL2017	32	9.4%	0.0%	3.1%
Nitrogen- Organic (Dissolved)	mg/L	OCT1993	JAN1998	7	0.0%	0.0%	0.0%
Nitrogen- Total (Dissolved)	mg/L	JAN2003	OCT2009	16	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN1998	JUL2017	38	2.6%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	OCT1993	JAN2010	8	0.0%	0.0%	0.0%
Nitrogen15/Nitrogen14 Isotope Ratio	per mil	JUL2005	JUL2005	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1993	JUL2017	69	7.2%	0.0%	2.9%
Phenanthrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Phosphorus- Total (Total)	mg/L	OCT1993	JUL2017	70	12.9%	0.0%	2.9%
Potassium (Dissolved)	mg/L	OCT1993	JUL2017	62	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	OCT1993	JAN1999	8	0.0%	0.0%	0.0%
Purge Volume (Total)	Gallons	JAN2002	JUL2007	10	0.0%	0.0%	0.0%
Pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1993	JUL2017	66	1.5%	0.0%	1.5%
Silica- Dissolved (Dissolved)	mg/L	JAN2002	JUL2017	51	2.0%	0.0%	2.0%
Sodium (Dissolved)	mg/L	OCT1993	JUL2017	62	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	OCT1993	JAN1999	8	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	OCT1993	JUL2017	117	0.0%	1.7%	0.0%
Strontium (Dissolved)	mg/L	JUL2005	JUL2017	46	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Strontium (Dissolved)	ug/L	JAN1997	JAN2005	11	90.9%	0.0%	18.2%
Strontium (Total)	ug/L	FEB1996	JAN2000	5	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1993	JUL2017	69	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	OCT1993	JUL2017	62	8.1%	0.0%	1.6%
Total Recoverable Pet. Hydrocarbons	mg/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Turbidity (Total)	NTU	OCT1993	JUL2017	69	8.7%	0.0%	5.8%
pH (Total)	SU	OCT1993	JUL2017	62	4.8%	0.0%	0.0%

Chassahowitzka River - Fixed Station

Source: Springs Data

Crab Creek Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	155.552222	Sum Observations	9799.79
Std Deviation	21.3026434	Variance	453.802618
Skewness	-6.3313566	Kurtosis	46.1445145
Uncorrected SS	1552514.87	Corrected SS	28135.7623
Coeff Variation	13.69485	Std Error Mean	2.6838808

Basic Statistical Measures			
Location		Variability	
Mean	155.5522	Std Deviation	21.30264
Median	158.7000	Variance	453.80262
Mode	145.0000	Range	178.00000
		Interquartile Range	10.90000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	57.95795	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	179.0
99%	179.0
95%	167.9
90%	166.4
75% Q3	163.7
50% Median	158.7
25% Q1	152.8
10%	145.0
5%	143.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	13	167.8	51
137	3	167.9	55
142	4	168.6	62
143	6	168.8	63
144	5	179.0	7

Chassahowitzka River - Fixed Station

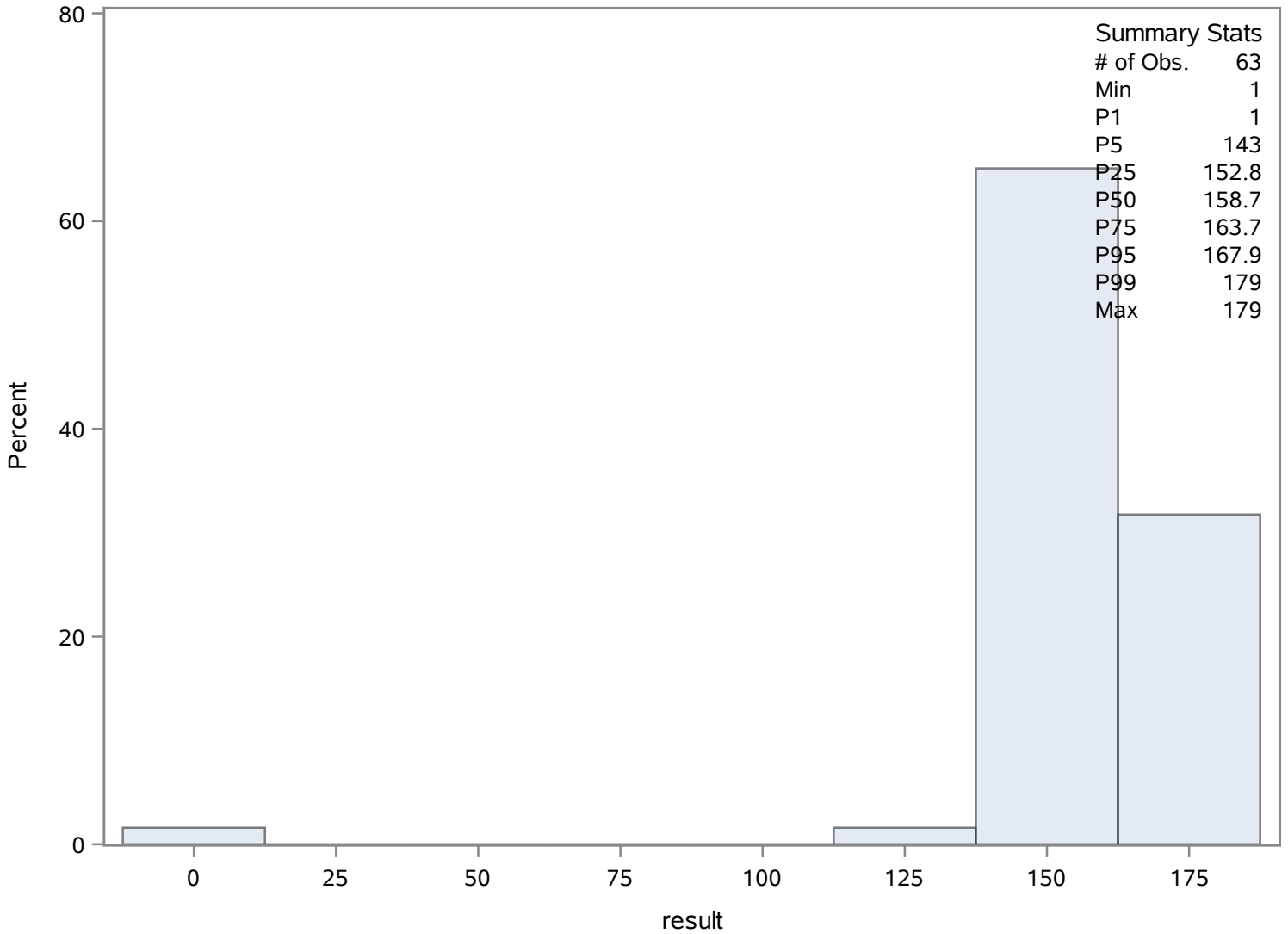
Source: Springs Data

Crab Creek Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	0.01788974	Sum Observations	0.6977
Std Deviation	0.01302449	Variance	0.00016964
Skewness	1.80279733	Kurtosis	4.15678508
Uncorrected SS	0.01892789	Corrected SS	0.00644622
Coeff Variation	72.8042126	Std Error Mean	0.00208559

Basic Statistical Measures			
Location		Variability	
Mean	0.017890	Std Deviation	0.01302
Median	0.016000	Variance	0.0001696
Mode	0.010000	Range	0.06400
		Interquartile Range	0.01200

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.577798	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.065
99%	0.065
95%	0.051
90%	0.036
75% Q3	0.022
50% Median	0.016
25% Q1	0.010
10%	0.005
5%	0.003
1%	0.001
0% Min	0.001

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	69	0.033	81
0.003	73	0.036	96
0.004	64	0.042	95
0.005	91	0.051	77
0.005	86	0.065	79

Chassahowitzka River - Fixed Station

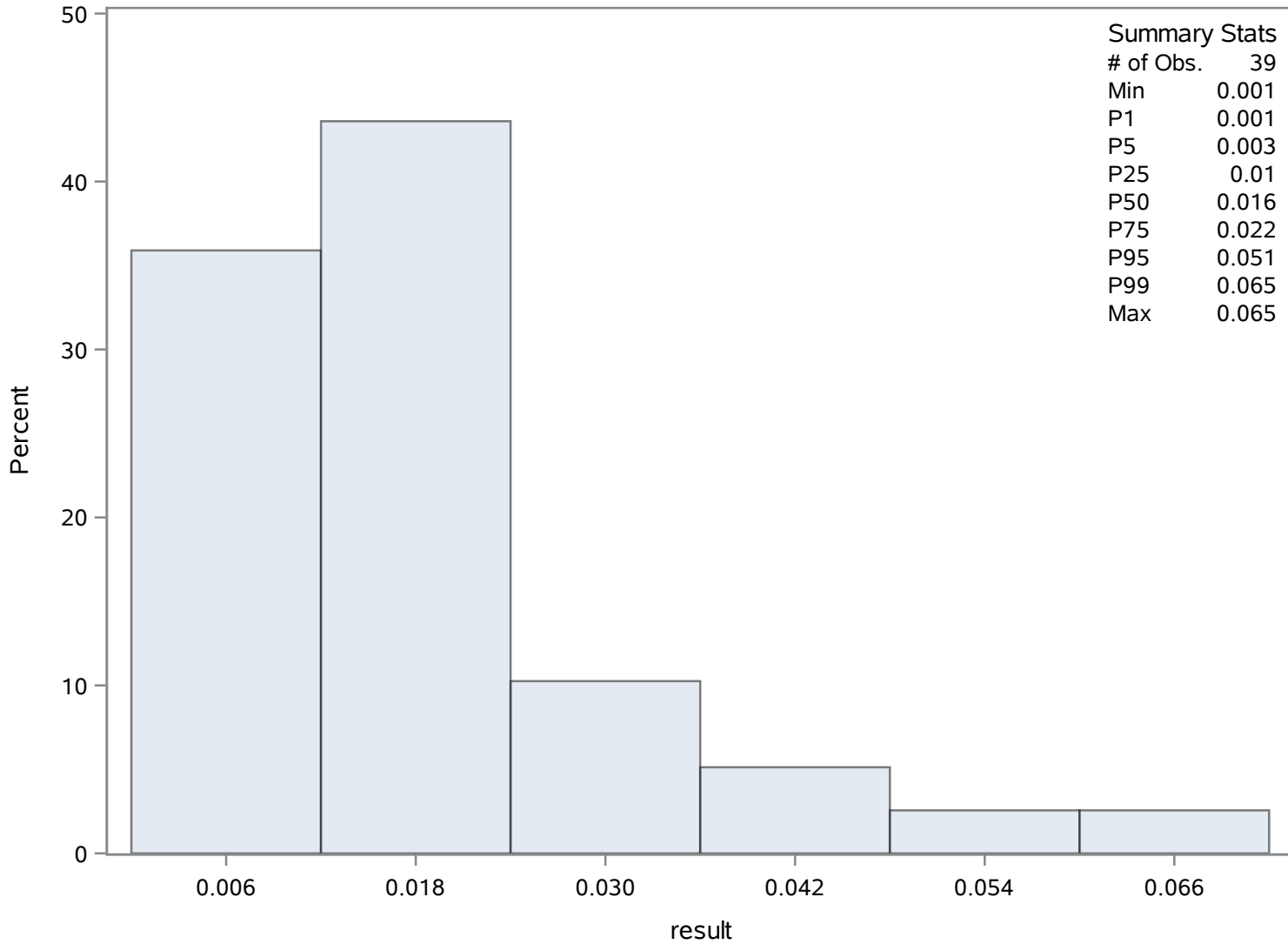
Source: Springs Data

Crab Creek Spring

Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	32	Sum Weights	32
Mean	0.02231563	Sum Observations	0.7141
Std Deviation	0.00464627	Variance	0.00002159
Skewness	0.23278682	Kurtosis	0.03397161
Uncorrected SS	0.01660481	Corrected SS	0.00066922
Coeff Variation	20.820697	Std Error Mean	0.00082135

Basic Statistical Measures			
Location		Variability	
Mean	0.022316	Std Deviation	0.00465
Median	0.022500	Variance	0.0000216
Mode	0.024000	Range	0.01900
		Interquartile Range	0.00405

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	27.16938	Pr > t 	<.0001
Sign	M	16	Pr >= M 	<.0001
Signed Rank	S	264	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.03300
99%	0.03300
95%	0.03200
90%	0.02800
75% Q3	0.02405
50% Median	0.02250
25% Q1	0.02000
10%	0.01600
5%	0.01500
1%	0.01400
0% Min	0.01400

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

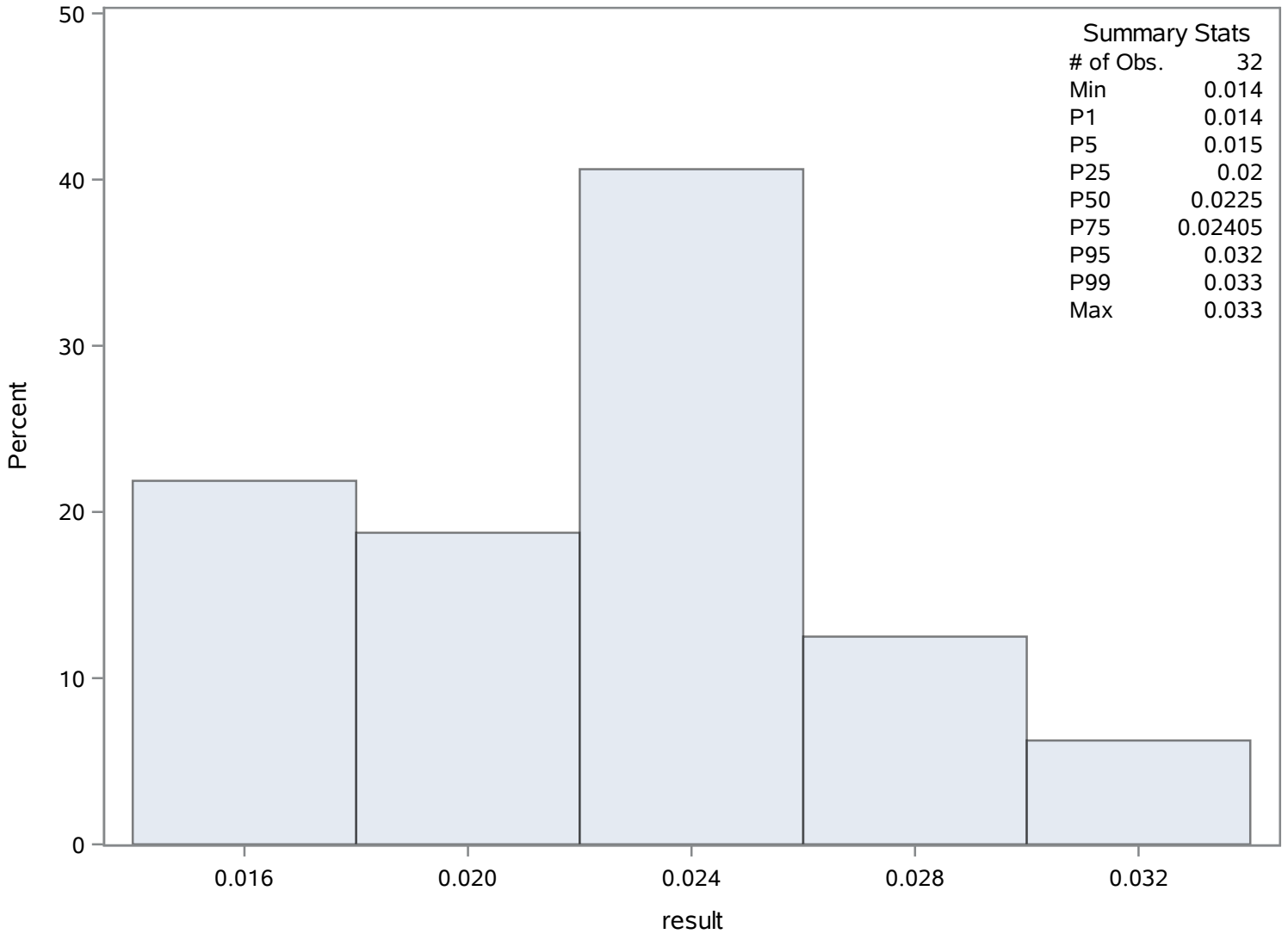
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.014	109	0.028	116
0.015	115	0.028	118
0.015	105	0.028	123
0.016	114	0.032	134
0.017	119	0.033	104

Chassahowitzka River - Fixed Station

Source: Springs Data
Crab Creek Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Crab Creek Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	69	Sum Weights	69
Mean	99.5082609	Sum Observations	6866.07
Std Deviation	15.0885407	Variance	227.664062
Skewness	0.30898791	Kurtosis	-0.221858
Uncorrected SS	698711.841	Corrected SS	15481.1562
Coeff Variation	15.1631037	Std Error Mean	1.81644685

Basic Statistical Measures			
Location		Variability	
Mean	99.5083	Std Deviation	15.08854
Median	99.9000	Variance	227.66406
Mode	102.0000	Range	71.50000
		Interquartile Range	20.53000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	54.78182	Pr > t 	<.0001
Sign	M	34.5	Pr >= M 	<.0001
Signed Rank	S	1207.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	143.00
99%	143.00
95%	125.00
90%	120.00
75% Q3	109.75
50% Median	99.90
25% Q1	89.22
10%	80.20
5%	77.90
1%	71.50
0% Min	71.50

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
71.5	149	123	167
73.3	157	125	179
75.9	155	126	164
77.9	156	126	203
78.9	154	143	171

Chassahowitzka River - Fixed Station

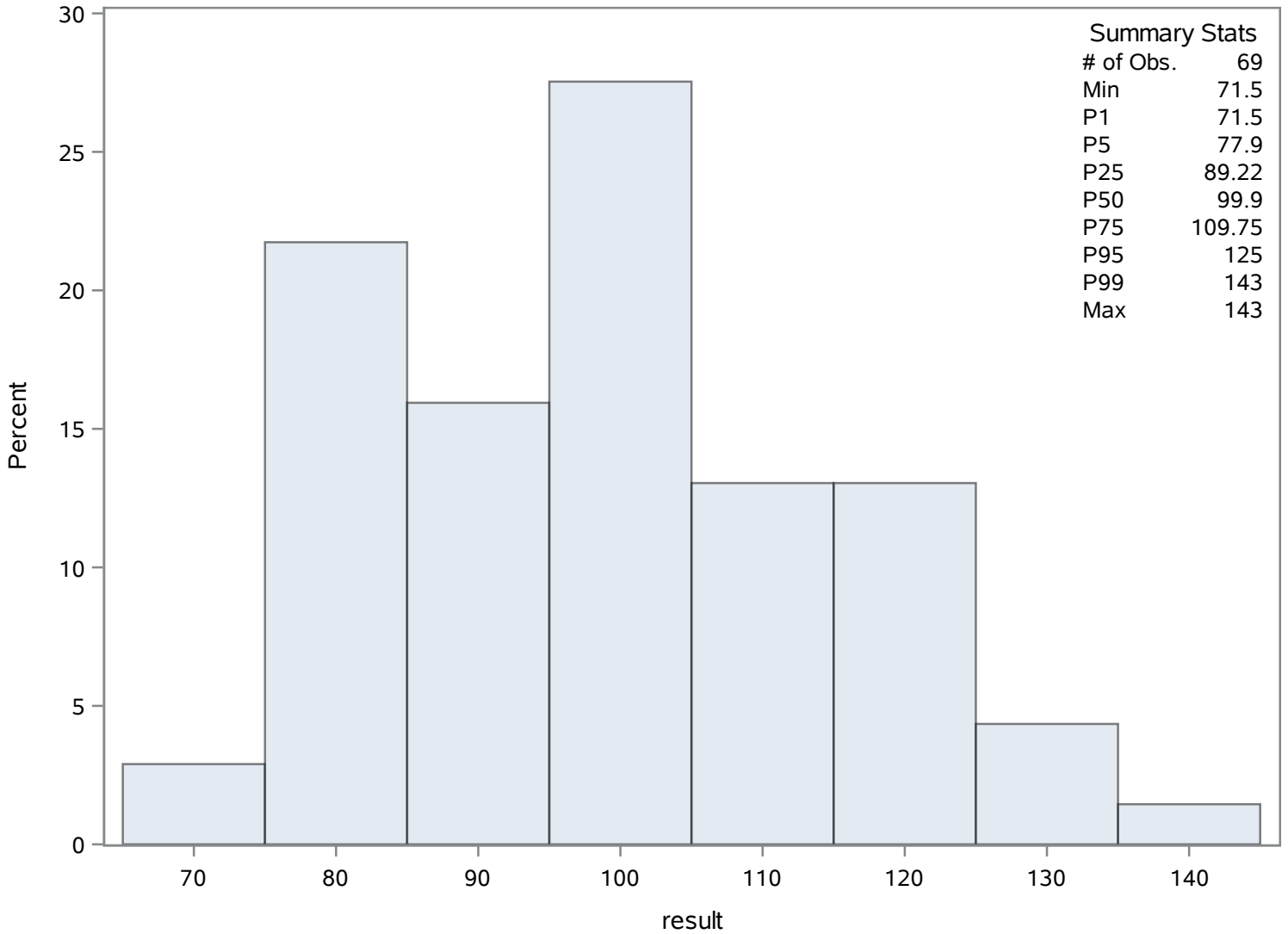
Source: Springs Data

Crab Creek Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	69	Sum Weights	69
Mean	0.47923188	Sum Observations	33.067
Std Deviation	0.30341993	Variance	0.09206365
Skewness	3.9864954	Kurtosis	18.0439843
Uncorrected SS	22.107089	Corrected SS	6.26032829
Coeff Variation	63.3138019	Std Error Mean	0.03652747

Basic Statistical Measures			
Location		Variability	
Mean	0.479232	Std Deviation	0.30342
Median	0.400000	Variance	0.09206
Mode	0.500000	Range	1.87000
		Interquartile Range	0.16000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.11977	Pr > t 	<.0001
Sign	M	34.5	Pr >= M 	<.0001
Signed Rank	S	1207.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.100
99%	2.100
95%	1.018
90%	0.680
75% Q3	0.500
50% Median	0.400
25% Q1	0.340
10%	0.300
5%	0.300
1%	0.230
0% Min	0.230

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Carbon- Total Organic (Total) mg/L

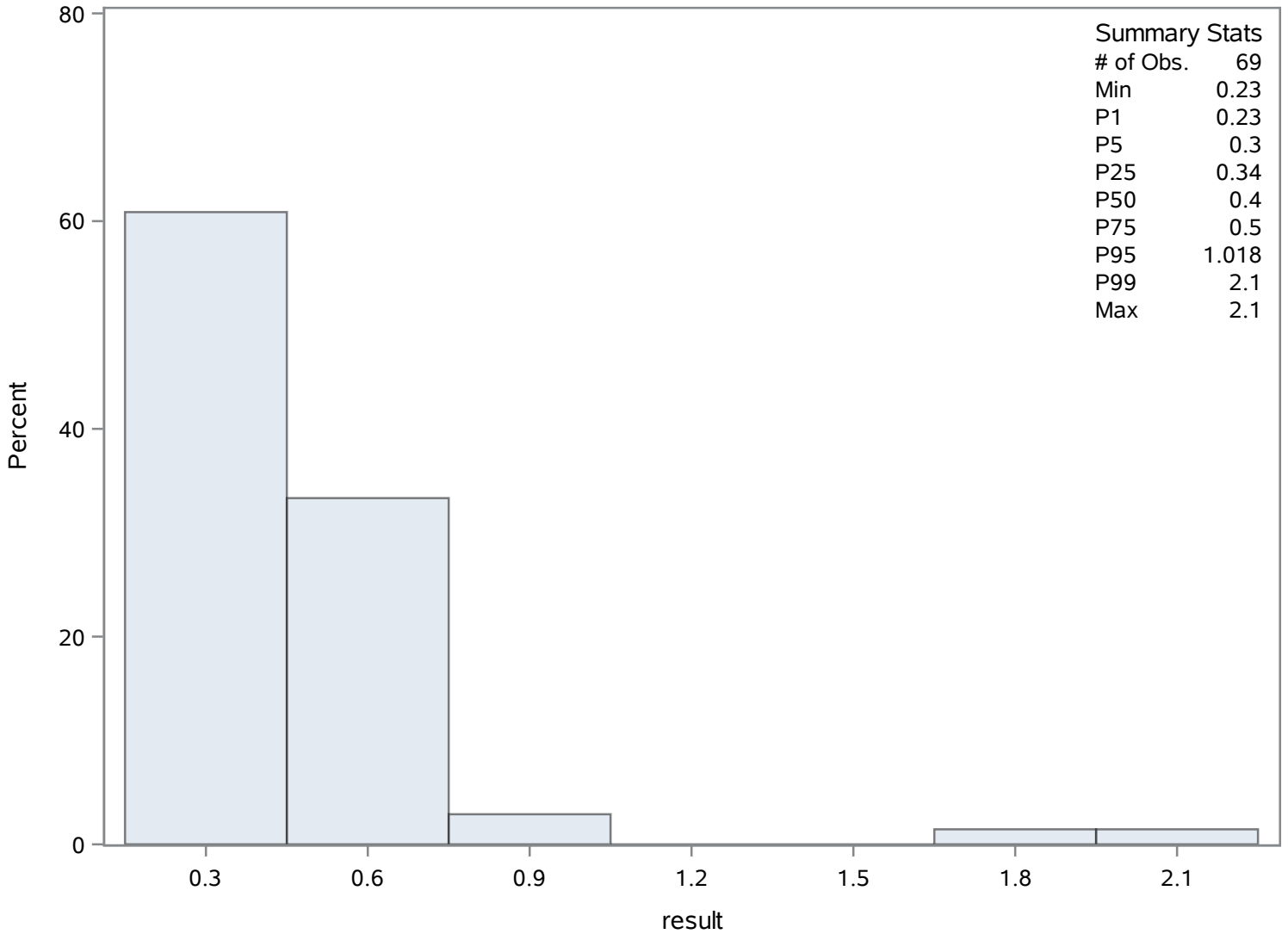
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.23	252	0.710	272
0.30	248	1.018	206
0.30	234	1.020	207
0.30	229	1.900	223
0.30	226	2.100	224

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	69	Sum Weights	69
Mean	1918.51246	Sum Observations	132377.36
Std Deviation	543.743227	Variance	295656.697
Skewness	0.28805295	Kurtosis	-0.3816291
Uncorrected SS	274072270	Corrected SS	20104655.4
Coeff Variation	28.3419179	Std Error Mean	65.4589923

Basic Statistical Measures			
Location		Variability	
Mean	1918.512	Std Deviation	543.74323
Median	1900.000	Variance	295657
Mode	1114.000	Range	2312
		Interquartile Range	668.00000

Note: The mode displayed is the smallest of 13 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.30862	Pr > t 	<.0001
Sign	M	34.5	Pr >= M 	<.0001
Signed Rank	S	1207.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3220.00
99%	3220.00
95%	2810.00
90%	2660.00
75% Q3	2288.00
50% Median	1900.00
25% Q1	1620.00
10%	1150.00
5%	1114.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	907.67
0% Min	907.67

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
907.67	295	2790	308
988.00	322	2810	317
1057.00	287	3030	302
1114.00	282	3120	341
1114.00	281	3220	309

Chassahowitzka River - Fixed Station

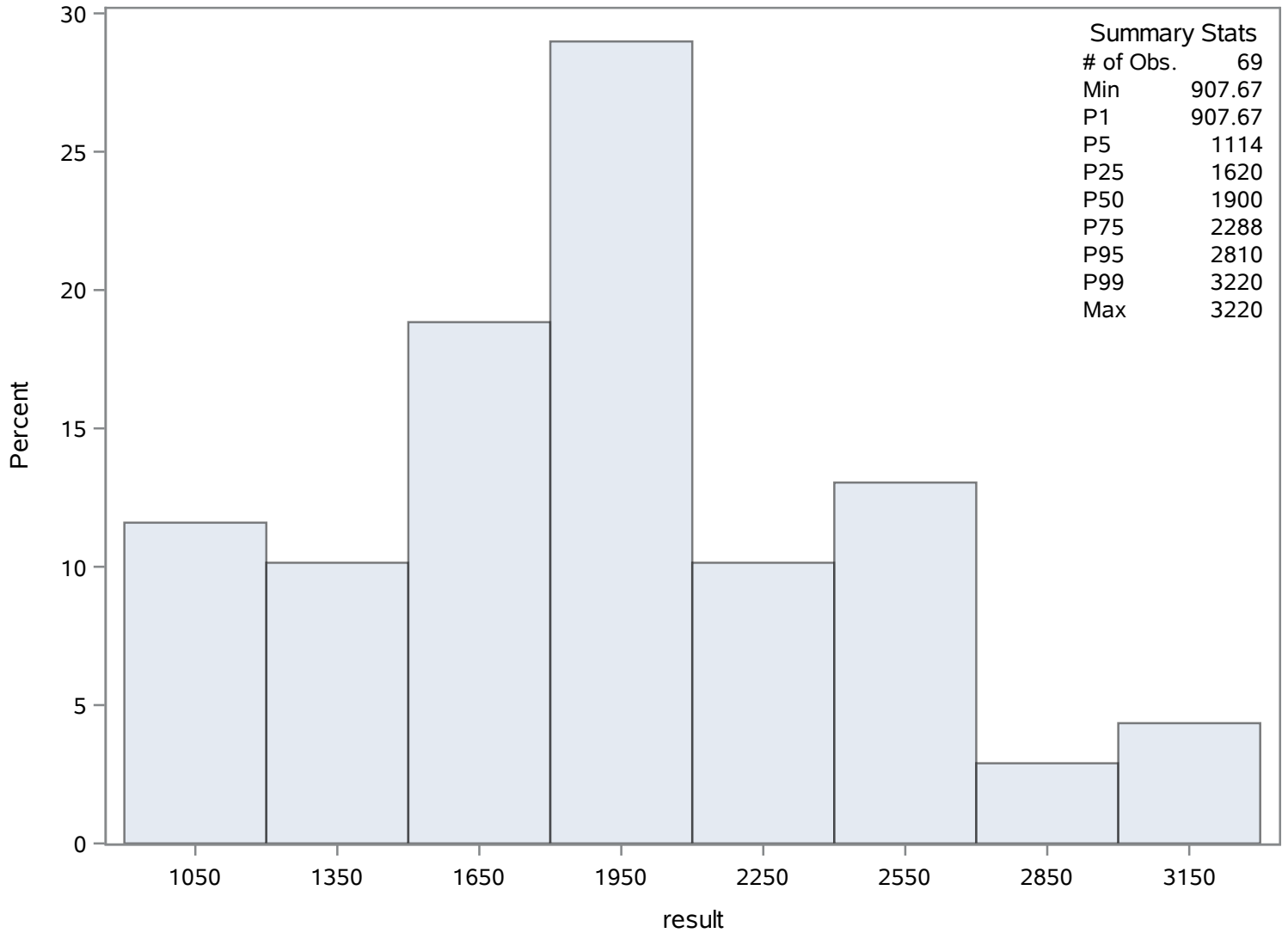
Source: Springs Data

Crab Creek Spring

Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Crab Creek Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	30	Sum Weights	30
Mean	2.8566667	Sum Observations	85.7
Std Deviation	0.519073	Variance	0.26943678
Skewness	0.07217534	Kurtosis	0.09540287
Uncorrected SS	252.63	Corrected SS	7.81366667
Coeff Variation	18.1705835	Std Error Mean	0.09476933

Basic Statistical Measures			
Location		Variability	
Mean	2.856667	Std Deviation	0.51907
Median	2.750000	Variance	0.26944
Mode	2.700000	Range	2.20000
		Interquartile Range	0.60000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	30.14337	Pr > t 	<.0001
Sign	M	15	Pr >= M 	<.0001
Signed Rank	S	232.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.00
99%	4.00
95%	3.80
90%	3.55
75% Q3	3.20
50% Median	2.75
25% Q1	2.60
10%	2.20
5%	1.90
1%	1.80
0% Min	1.80

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.8	350	3.3	365
1.9	353	3.5	366
2.0	352	3.6	360
2.4	357	3.8	371
2.4	354	4.0	355

Chassahowitzka River - Fixed Station

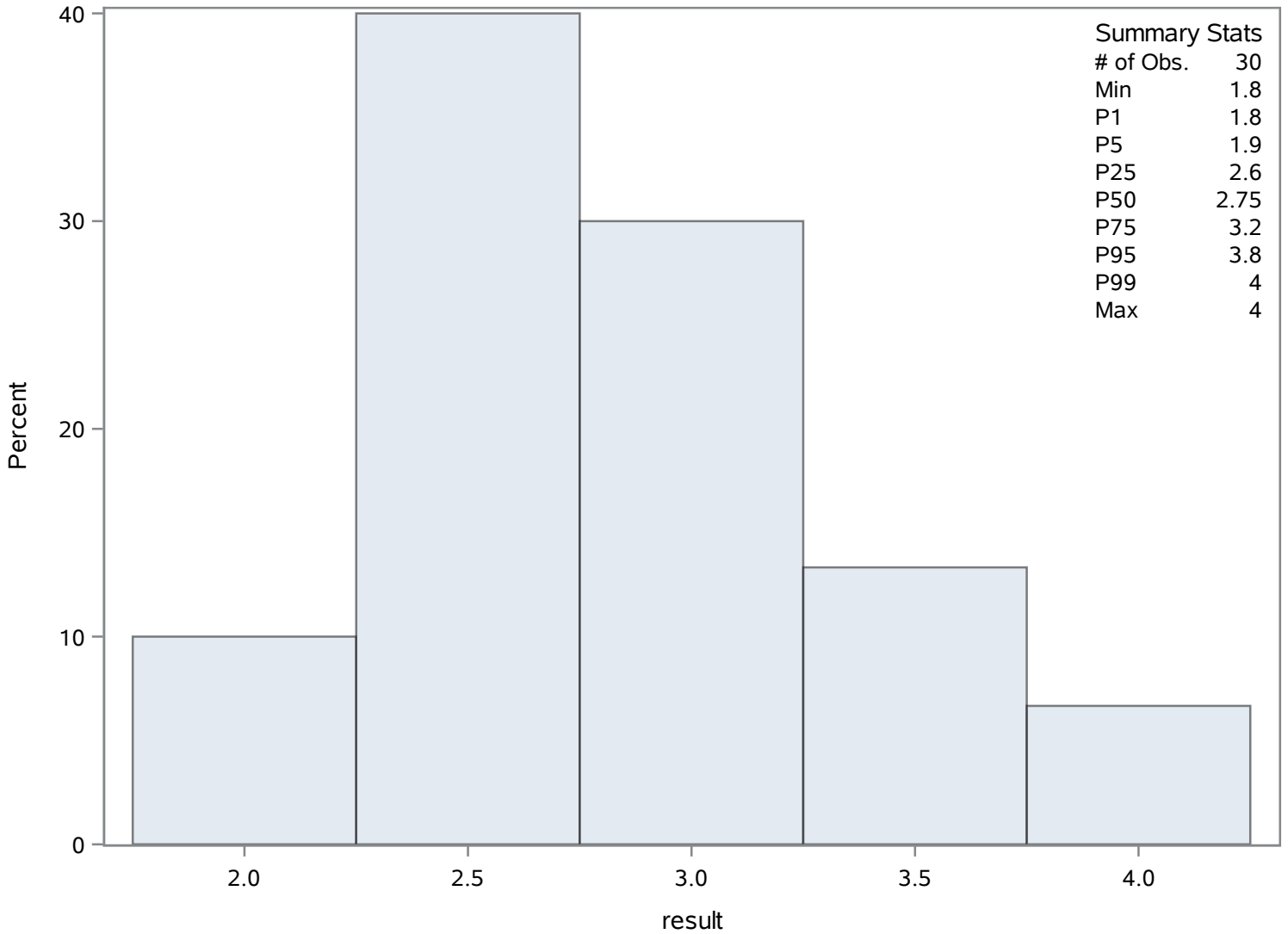
Source: Springs Data

Crab Creek Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Crab Creek Spring

Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	50	Sum Weights	50
Mean	4.5822	Sum Observations	229.11
Std Deviation	2.73726162	Variance	7.49260118
Skewness	6.63983236	Kurtosis	45.7669579
Uncorrected SS	1416.9653	Corrected SS	367.137458
Coeff Variation	59.736843	Std Error Mean	0.38710725

Basic Statistical Measures			
Location		Variability	
Mean	4.582200	Std Deviation	2.73726
Median	4.115000	Variance	7.49260
Mode	4.330000	Range	20.14000
		Interquartile Range	0.70000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.83703	Pr > t 	<.0001
Sign	M	25	Pr >= M 	<.0001
Signed Rank	S	637.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	23.160
99%	23.160
95%	5.100
90%	4.810
75% Q3	4.540
50% Median	4.115
25% Q1	3.840
10%	3.710
5%	3.550
1%	3.020
0% Min	3.020

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Dissolved Oxygen (Total) mg/L

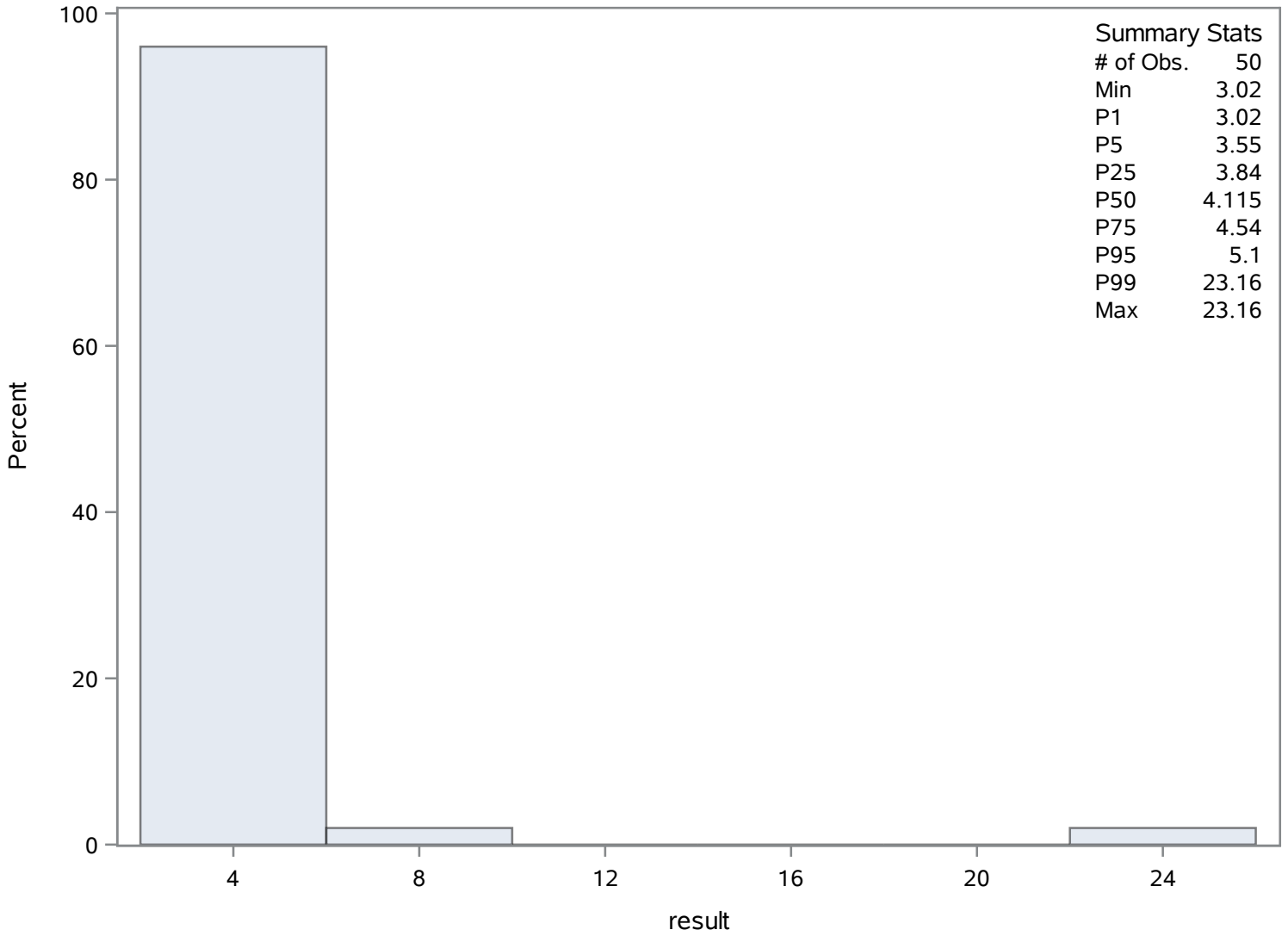
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.02	417	4.83	393
3.50	421	4.98	378
3.55	388	5.10	408
3.63	390	6.65	407
3.70	418	23.16	379

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	0.1576129	Sum Observations	9.772
Std Deviation	0.02116319	Variance	0.00044788
Skewness	-1.117316	Kurtosis	3.78946613
Uncorrected SS	1.567514	Corrected SS	0.02732071
Coeff Variation	13.4273188	Std Error Mean	0.00268773

Basic Statistical Measures			
Location		Variability	
Mean	0.157613	Std Deviation	0.02116
Median	0.160000	Variance	0.0004479
Mode	0.160000	Range	0.13000
		Interquartile Range	0.02000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	58.6417	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.210
99%	0.210
95%	0.180
90%	0.180
75% Q3	0.170
50% Median	0.160
25% Q1	0.150
10%	0.138
5%	0.120
1%	0.080
0% Min	0.080

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.080	430	0.180	462
0.100	438	0.180	483
0.100	437	0.190	423
0.120	422	0.205	428
0.128	425	0.210	444

Chassahowitzka River - Fixed Station

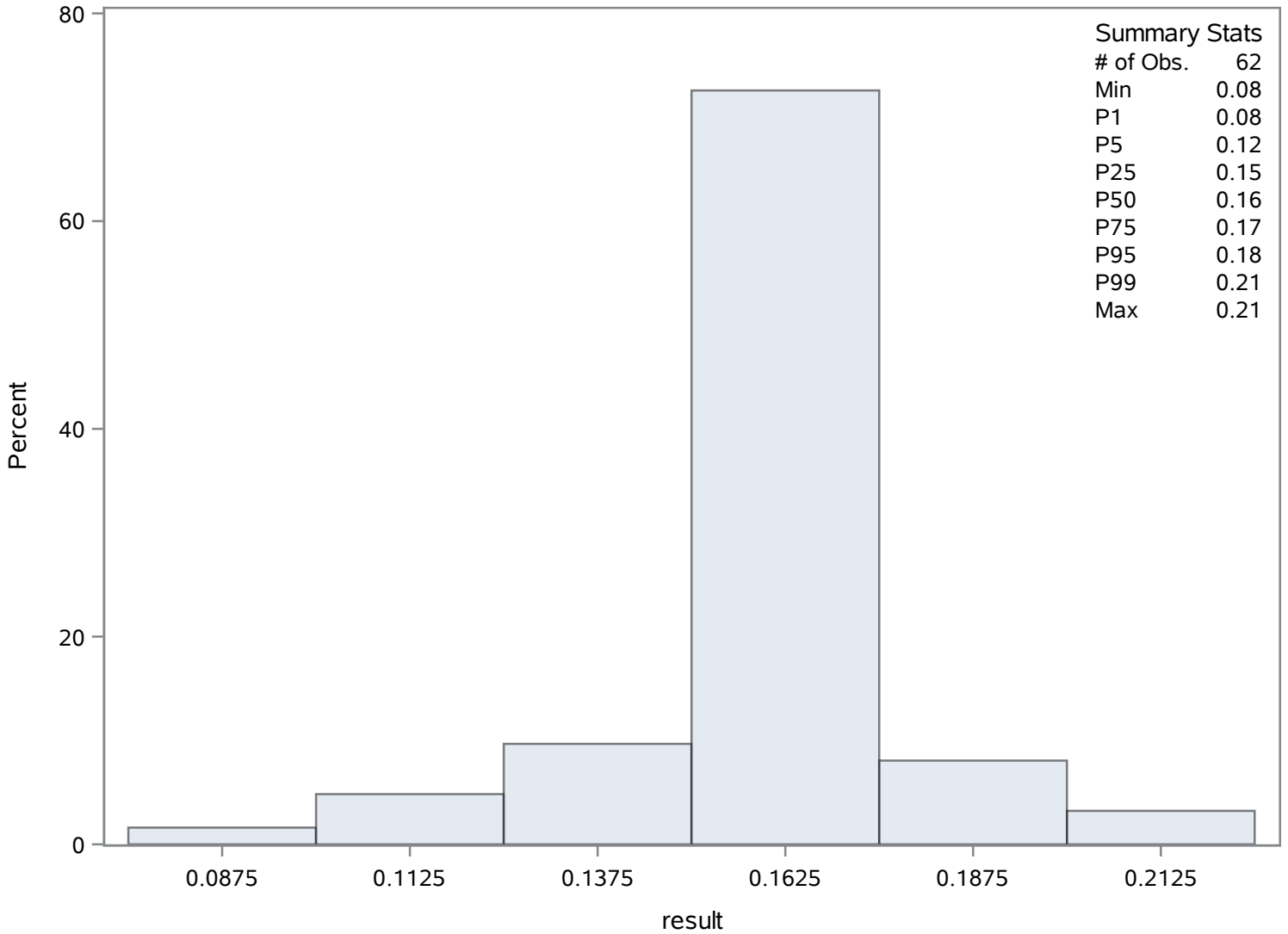
Source: Springs Data

Crab Creek Spring

Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	69	Sum Weights	69
Mean	57.7797101	Sum Observations	3986.8
Std Deviation	16.6842086	Variance	278.362818
Skewness	-0.5514665	Kurtosis	-0.020831
Uncorrected SS	249284.82	Corrected SS	18928.6716
Coeff Variation	28.8755492	Std Error Mean	2.00854269

Basic Statistical Measures			
Location		Variability	
Mean	57.77971	Std Deviation	16.68421
Median	59.00000	Variance	278.36282
Mode	50.00000	Range	74.90000
		Interquartile Range	22.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	28.76698	Pr > t 	<.0001
Sign	M	34.5	Pr >= M 	<.0001
Signed Rank	S	1207.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	87.4
99%	87.4
95%	80.0
90%	78.0
75% Q3	69.6
50% Median	59.0
25% Q1	47.3
10%	39.0
5%	28.2
1%	12.5
0% Min	12.5

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.5	512	78.8	541
15.8	519	80.0	500
19.7	511	80.0	501
28.2	506	82.8	547
31.3	531	87.4	536

Chassahowitzka River - Fixed Station

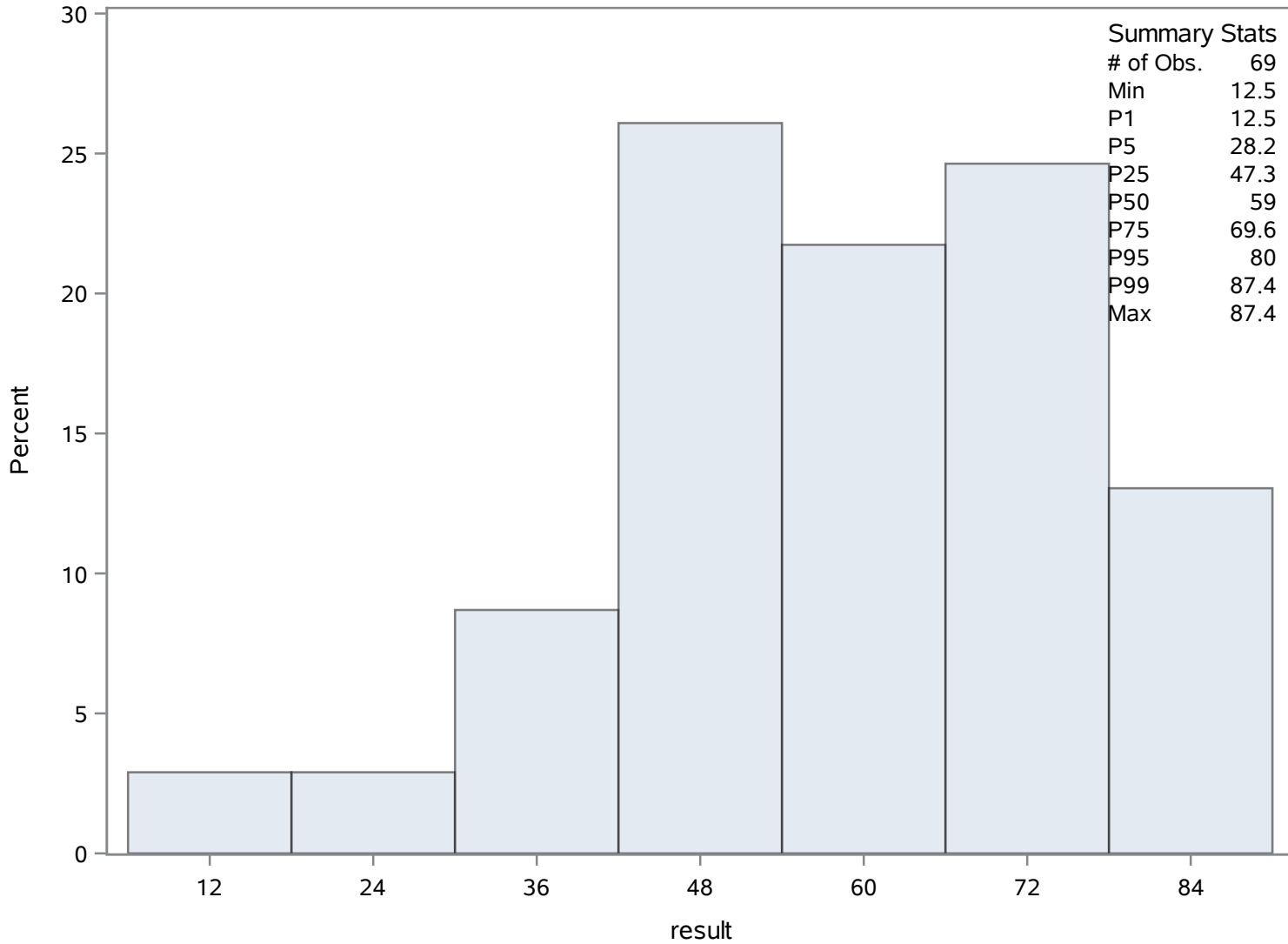
Source: Springs Data

Crab Creek Spring

Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	134.675161	Sum Observations	8349.86
Std Deviation	35.694974	Variance	1274.13117
Skewness	0.16349277	Kurtosis	-0.4486586
Uncorrected SS	1202240.74	Corrected SS	77722.0013
Coeff Variation	26.5044969	Std Error Mean	4.53326623

Basic Statistical Measures			
Location		Variability	
Mean	134.6752	Std Deviation	35.69497
Median	134.0000	Variance	1274
Mode	130.0000	Range	152.00000
		Interquartile Range	49.00000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.7082	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	217.0
99%	217.0
95%	195.0
90%	180.0
75% Q3	158.0
50% Median	134.0
25% Q1	109.0
10%	86.3
5%	82.6

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	65.0
0% Min	65.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
65.0	568	182	581
70.7	560	195	590
78.5	569	198	575
82.6	566	212	614
82.8	567	217	582

Chassahowitzka River - Fixed Station

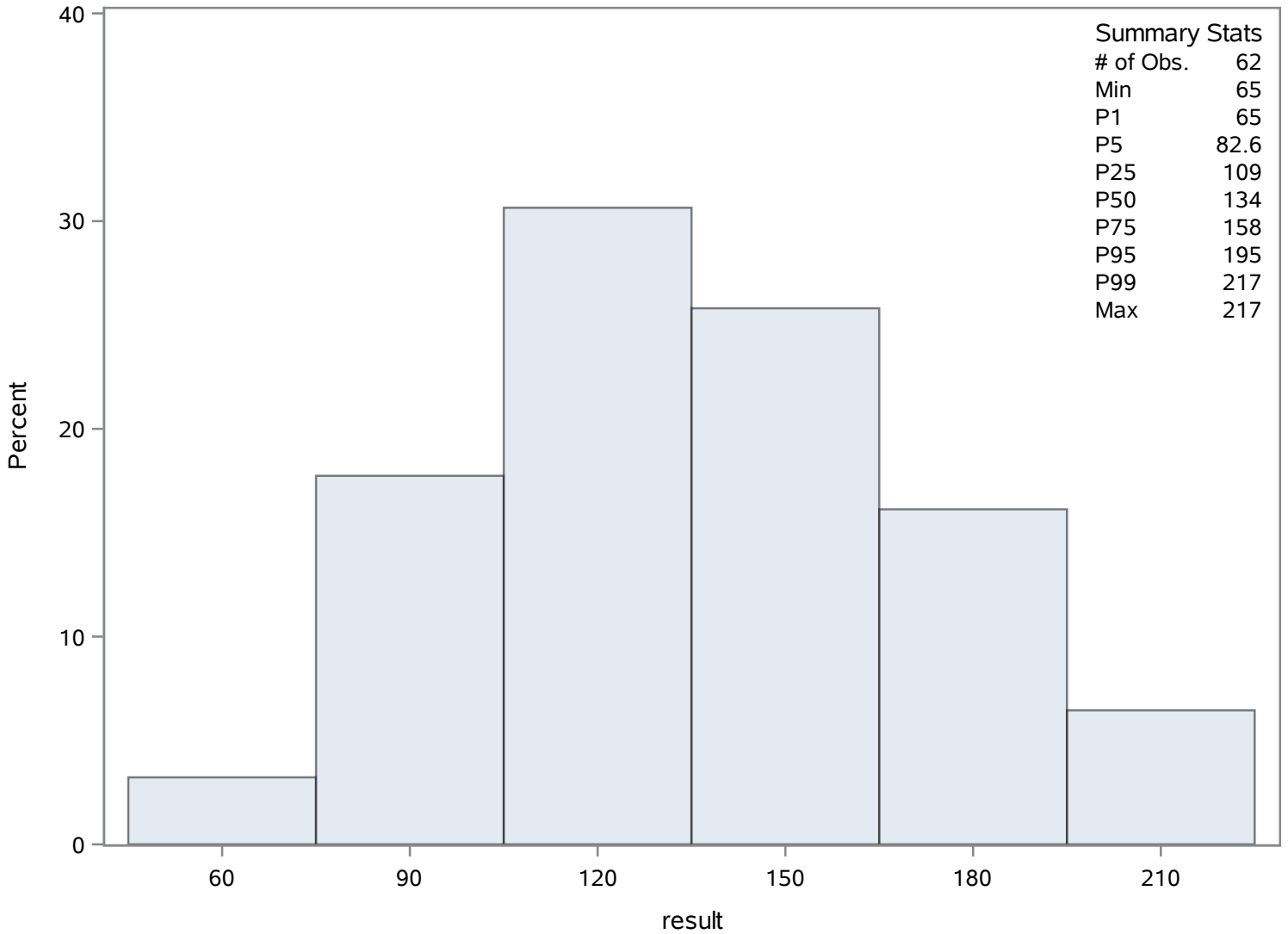
Source: Springs Data

Crab Creek Spring

Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	0.53058857	Sum Observations	18.5706
Std Deviation	0.05880932	Variance	0.00345854
Skewness	0.15532301	Kurtosis	-0.9240046
Uncorrected SS	9.97093836	Corrected SS	0.11759024
Coeff Variation	11.0837898	Std Error Mean	0.00994059

Basic Statistical Measures			
Location		Variability	
Mean	0.530589	Std Deviation	0.05881
Median	0.525000	Variance	0.00346
Mode	0.460000	Range	0.22060
		Interquartile Range	0.10200

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	53.37597	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.6606
99%	0.6606
95%	0.6250
90%	0.5990
75% Q3	0.5820
50% Median	0.5250
25% Q1	0.4800
10%	0.4570
5%	0.4470
1%	0.4400
0% Min	0.4400

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.440	615	0.5970	631
0.447	621	0.5990	634
0.447	620	0.6000	645
0.457	624	0.6250	649
0.460	628	0.6606	633

Chassahowitzka River - Fixed Station

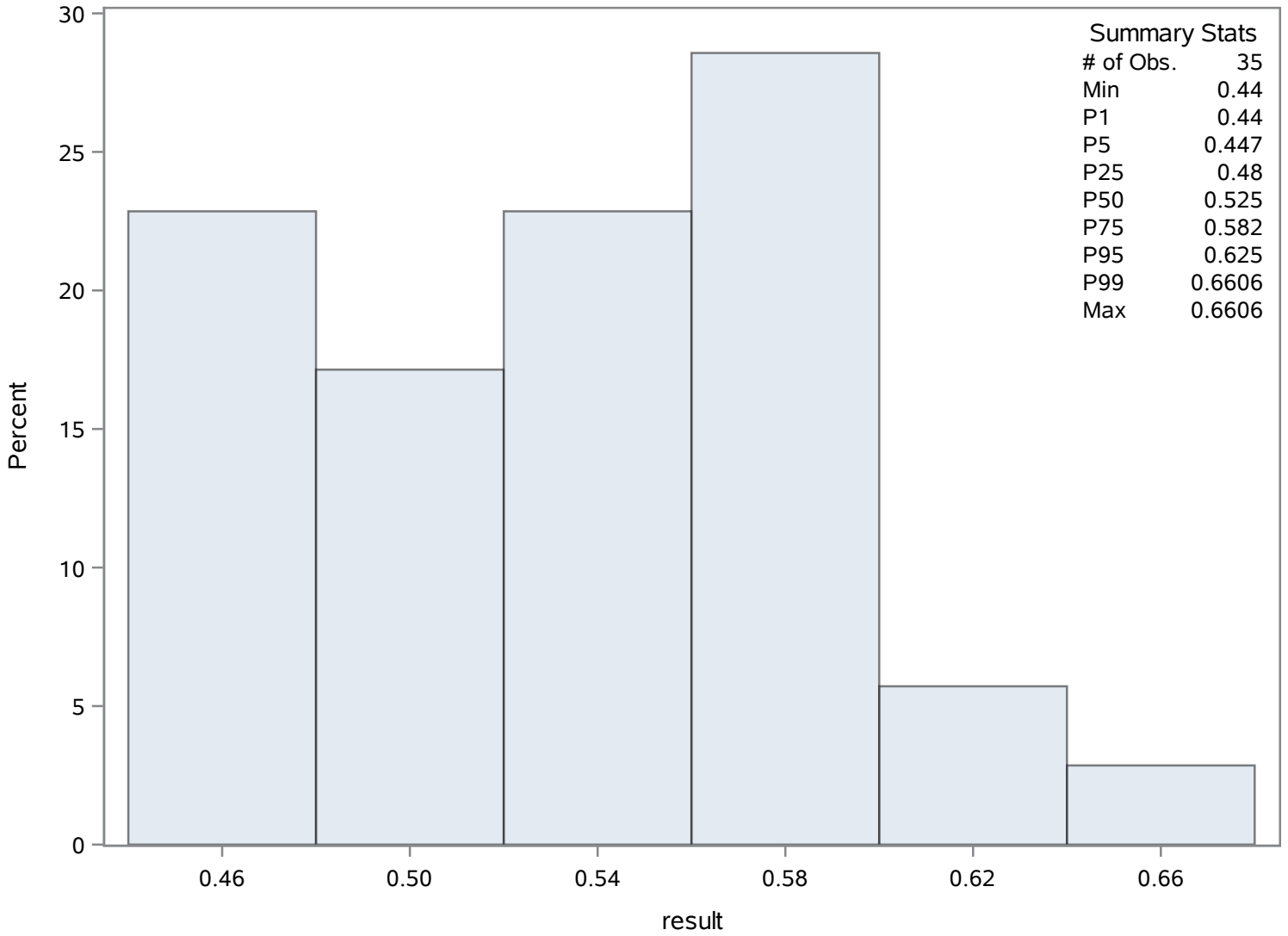
Source: Springs Data

Crab Creek Spring

Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	31	Sum Weights	31
Mean	0.62377419	Sum Observations	19.337
Std Deviation	0.02812319	Variance	0.00079091
Skewness	-1.0447928	Kurtosis	2.12222519
Uncorrected SS	12.085649	Corrected SS	0.02372742
Coeff Variation	4.50855345	Std Error Mean	0.00505107

Basic Statistical Measures			
Location		Variability	
Mean	0.623774	Std Deviation	0.02812
Median	0.627000	Variance	0.0007909
Mode	0.621000	Range	0.13400
		Interquartile Range	0.03000

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	123.4934	Pr > t 	<.0001
Sign	M	15.5	Pr >= M 	<.0001
Signed Rank	S	248	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.670
99%	0.670
95%	0.665
90%	0.659
75% Q3	0.641
50% Median	0.627
25% Q1	0.611
10%	0.589
5%	0.570

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.536
0% Min	0.536

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.536	650	0.652	663
0.570	680	0.659	661
0.585	656	0.659	677
0.589	659	0.665	662
0.601	660	0.670	678

Chassahowitzka River - Fixed Station

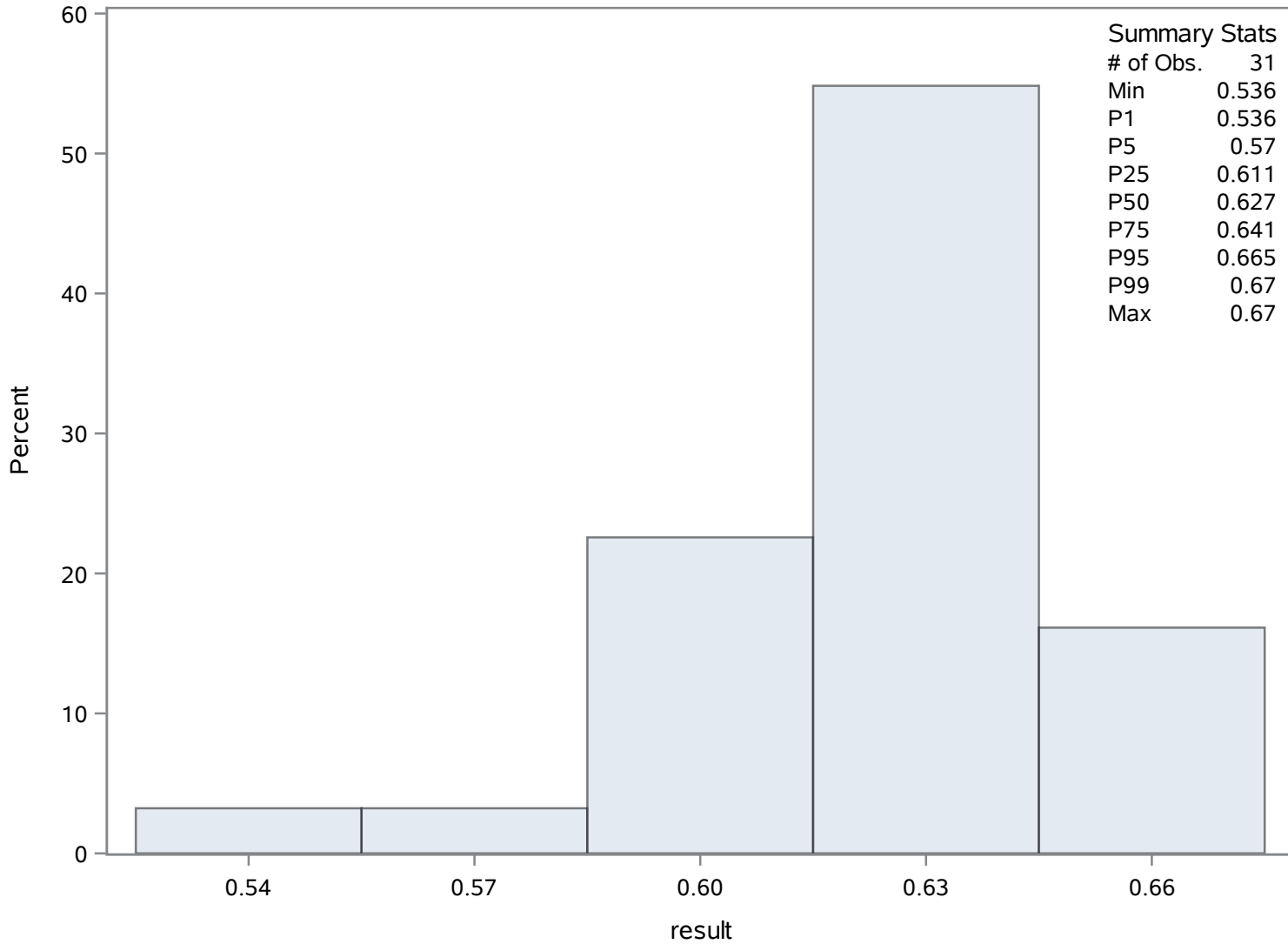
Source: Springs Data

Crab Creek Spring

Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	0.00530357	Sum Observations	0.1485
Std Deviation	0.00147409	Variance	2.17295E-6
Skewness	2.25584709	Kurtosis	6.84004857
Uncorrected SS	0.00084625	Corrected SS	0.00005867
Coeff Variation	27.7943433	Std Error Mean	0.00027858

Basic Statistical Measures			
Location		Variability	
Mean	0.005304	Std Deviation	0.00147
Median	0.005000	Variance	2.17295E-6
Mode	0.005000	Range	0.00750
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.03806	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0060
75% Q3	0.0050
50% Median	0.0050
25% Q1	0.0050
10%	0.0040
5%	0.0040
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	688	0.006	682
0.0040	687	0.006	685
0.0040	686	0.006	696
0.0050	708	0.010	683
0.0050	707	0.010	684

Chassahowitzka River - Fixed Station

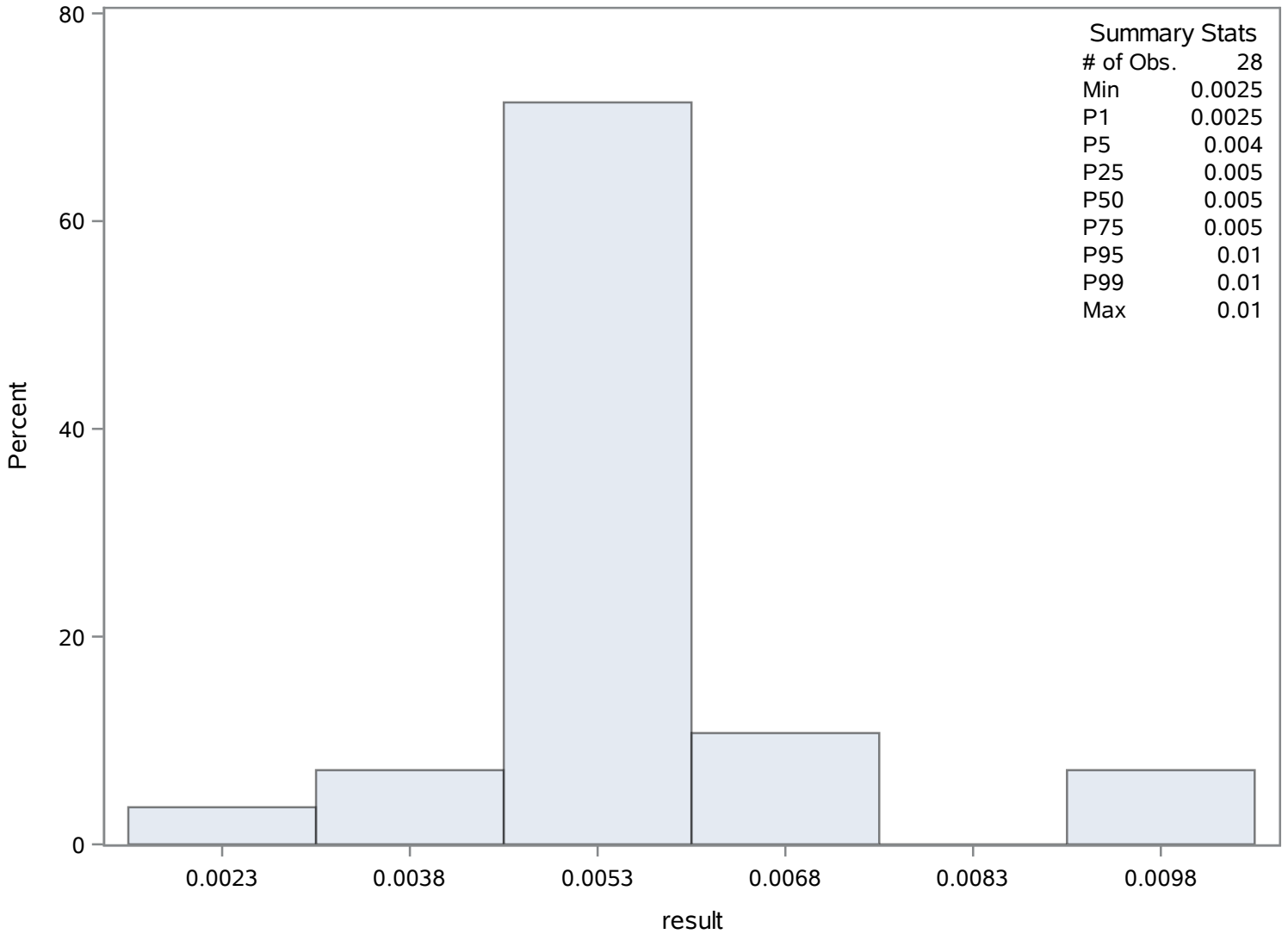
Source: Springs Data

Crab Creek Spring

Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	32	Sum Weights	32
Mean	0.00396875	Sum Observations	0.127
Std Deviation	0.00131332	Variance	1.7248E-6
Skewness	3.07999259	Kurtosis	14.5254352
Uncorrected SS	0.0005575	Corrected SS	0.00005347
Coeff Variation	33.0914217	Std Error Mean	0.00023216

Basic Statistical Measures			
Location		Variability	
Mean	0.003969	Std Deviation	0.00131
Median	0.004000	Variance	1.7248E-6
Mode	0.004000	Range	0.00750
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.09462	Pr > t 	<.0001
Sign	M	16	Pr >= M 	<.0001
Signed Rank	S	264	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0050
90%	0.0050
75% Q3	0.0040
50% Median	0.0040
25% Q1	0.0040
10%	0.0025
5%	0.0025
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	717	0.004	740
0.0025	716	0.005	710
0.0025	715	0.005	711
0.0025	714	0.005	732
0.0025	713	0.010	709

Chassahowitzka River - Fixed Station

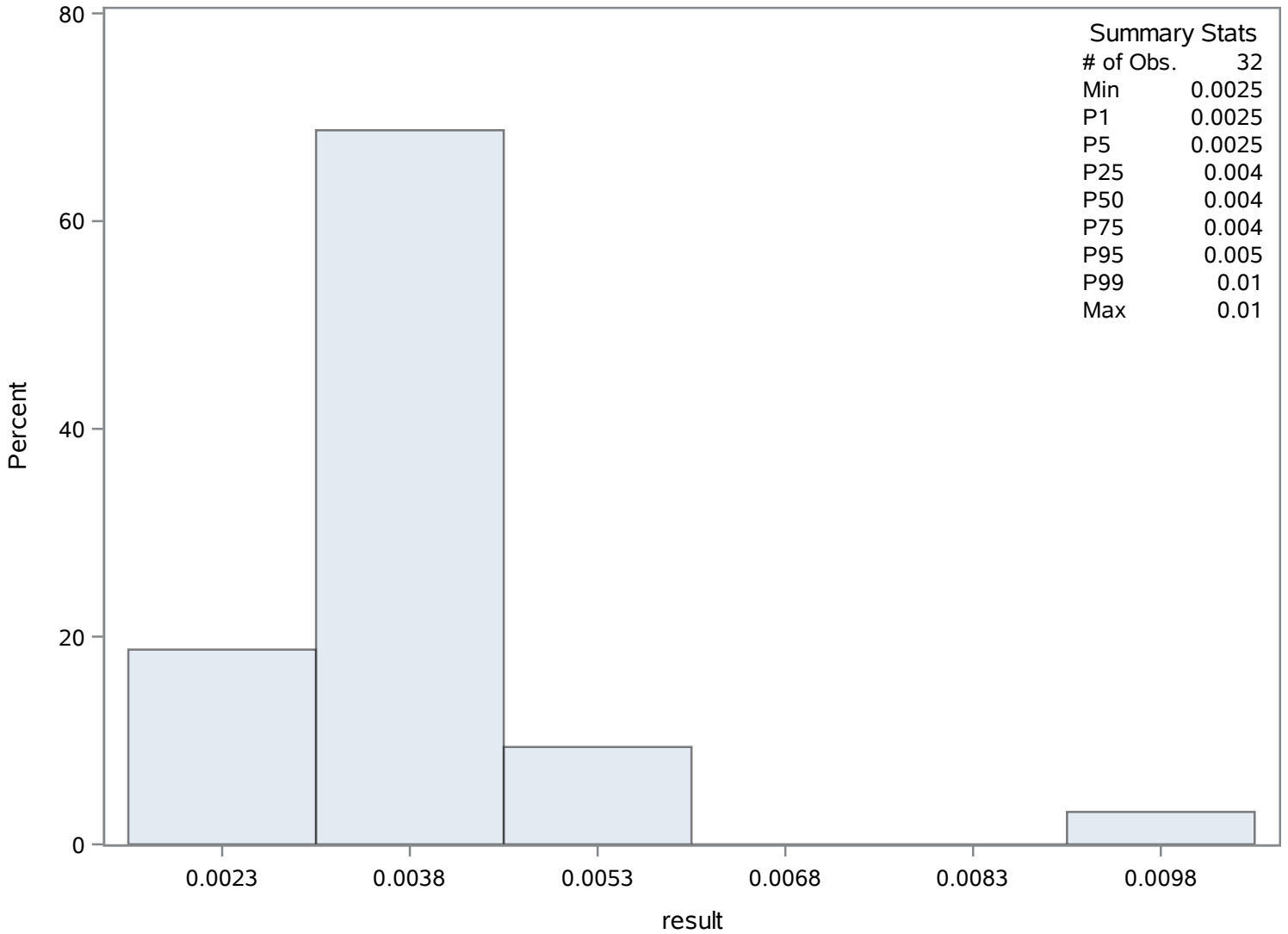
Source: Springs Data

Crab Creek Spring

Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	38	Sum Weights	38
Mean	0.64875263	Sum Observations	24.6526
Std Deviation	0.03776515	Variance	0.00142621
Skewness	-1.7316672	Kurtosis	3.0329694
Uncorrected SS	16.0462088	Corrected SS	0.05276963
Coeff Variation	5.82119368	Std Error Mean	0.00612632

Basic Statistical Measures			
Location		Variability	
Mean	0.648753	Std Deviation	0.03777
Median	0.660000	Variance	0.00143
Mode	0.660000	Range	0.16000
		Interquartile Range	0.04000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	105.896	Pr > t 	<.0001
Sign	M	19	Pr >= M 	<.0001
Signed Rank	S	370.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.70
99%	0.70
95%	0.69
90%	0.69
75% Q3	0.67
50% Median	0.66
25% Q1	0.63
10%	0.59
5%	0.54
1%	0.54
0% Min	0.54

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.540	744	0.68	771
0.540	742	0.69	751
0.551	745	0.69	757
0.590	762	0.69	765
0.630	778	0.70	741

Chassahowitzka River - Fixed Station

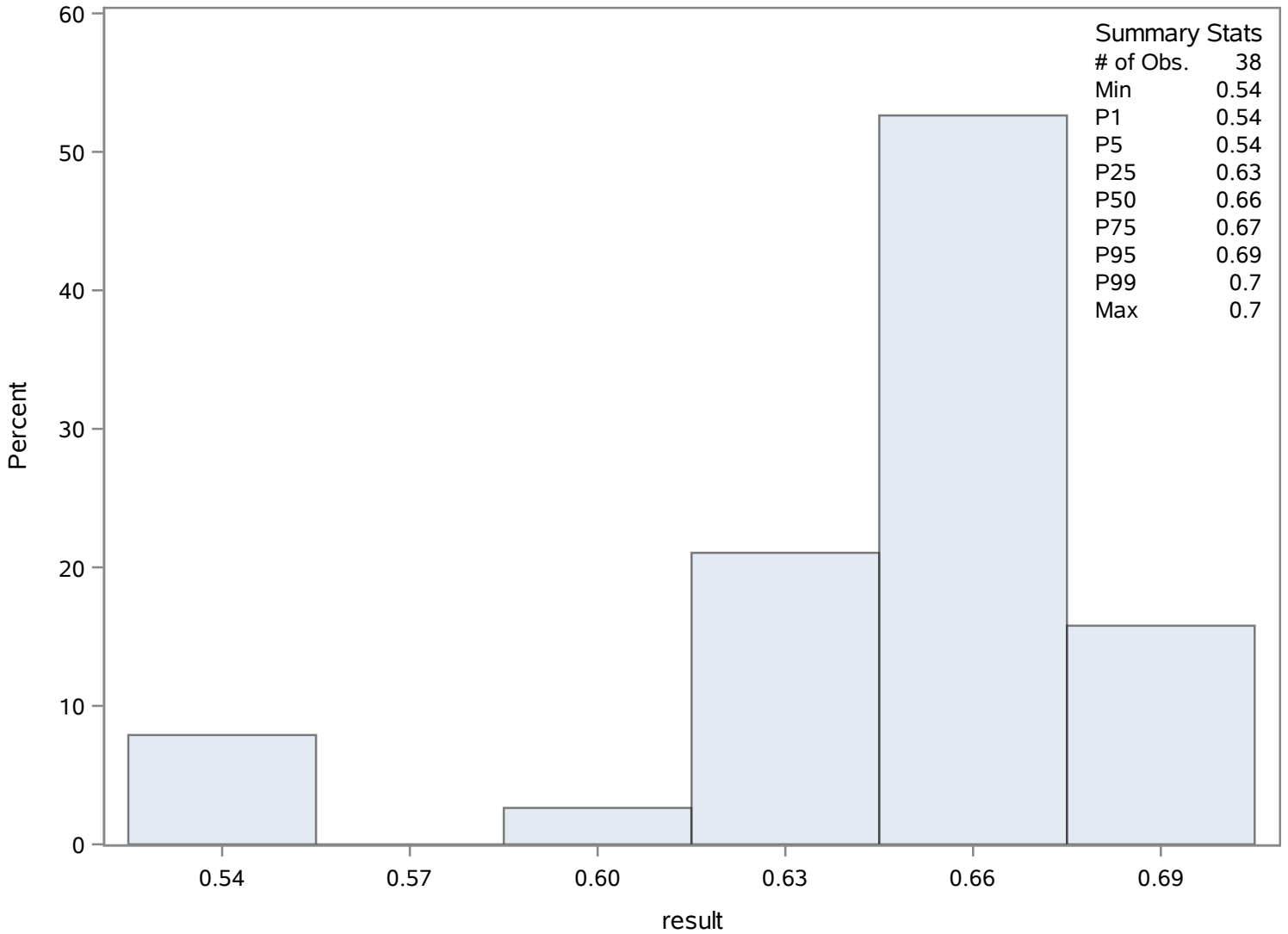
Source: Springs Data

Crab Creek Spring

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	69	Sum Weights	69
Mean	0.01547826	Sum Observations	1.068
Std Deviation	0.00506316	Variance	0.00002564
Skewness	2.29165819	Kurtosis	6.8862269
Uncorrected SS	0.018274	Corrected SS	0.00174322
Coeff Variation	32.7114019	Std Error Mean	0.00060953

Basic Statistical Measures			
Location		Variability	
Mean	0.015478	Std Deviation	0.00506
Median	0.014000	Variance	0.0000256
Mode	0.014000	Range	0.02900
		Interquartile Range	0.00300

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	25.39367	Pr > t 	<.0001
Sign	M	34.5	Pr >= M 	<.0001
Signed Rank	S	1207.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.036
99%	0.036
95%	0.027
90%	0.021
75% Q3	0.016
50% Median	0.014
25% Q1	0.013
10%	0.011
5%	0.010
1%	0.007
0% Min	0.007

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Orthophosphate (P) (Dissolved) mg/L

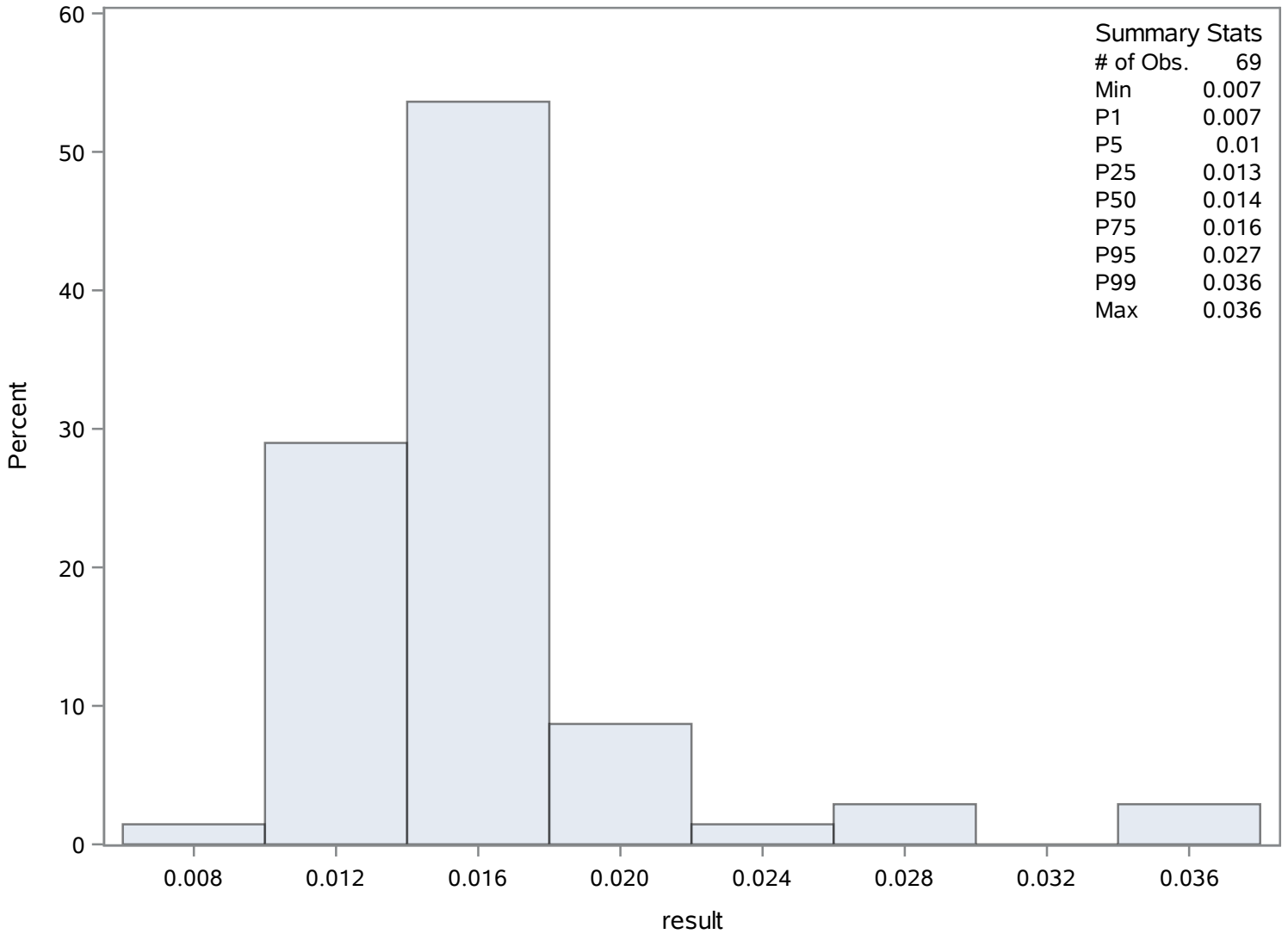
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	779	0.024	793
0.010	798	0.027	791
0.010	797	0.027	792
0.010	782	0.036	785
0.010	780	0.036	786

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	70	Sum Weights	70
Mean	0.05805286	Sum Observations	4.0637
Std Deviation	0.09731798	Variance	0.00947079
Skewness	3.37460975	Kurtosis	11.2250266
Uncorrected SS	0.88939389	Corrected SS	0.65348449
Coeff Variation	167.636853	Std Error Mean	0.01163172

Basic Statistical Measures			
Location		Variability	
Mean	0.058053	Std Deviation	0.09732
Median	0.027000	Variance	0.00947
Mode	0.024000	Range	0.48000
		Interquartile Range	0.01100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.990907	Pr > t 	<.0001
Sign	M	35	Pr >= M 	<.0001
Signed Rank	S	1242.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.4900
99%	0.4900
95%	0.2840
90%	0.1355
75% Q3	0.0340
50% Median	0.0270
25% Q1	0.0230
10%	0.0190
5%	0.0167
1%	0.0100
0% Min	0.0100

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Phosphorus- Total (Total) mg/L

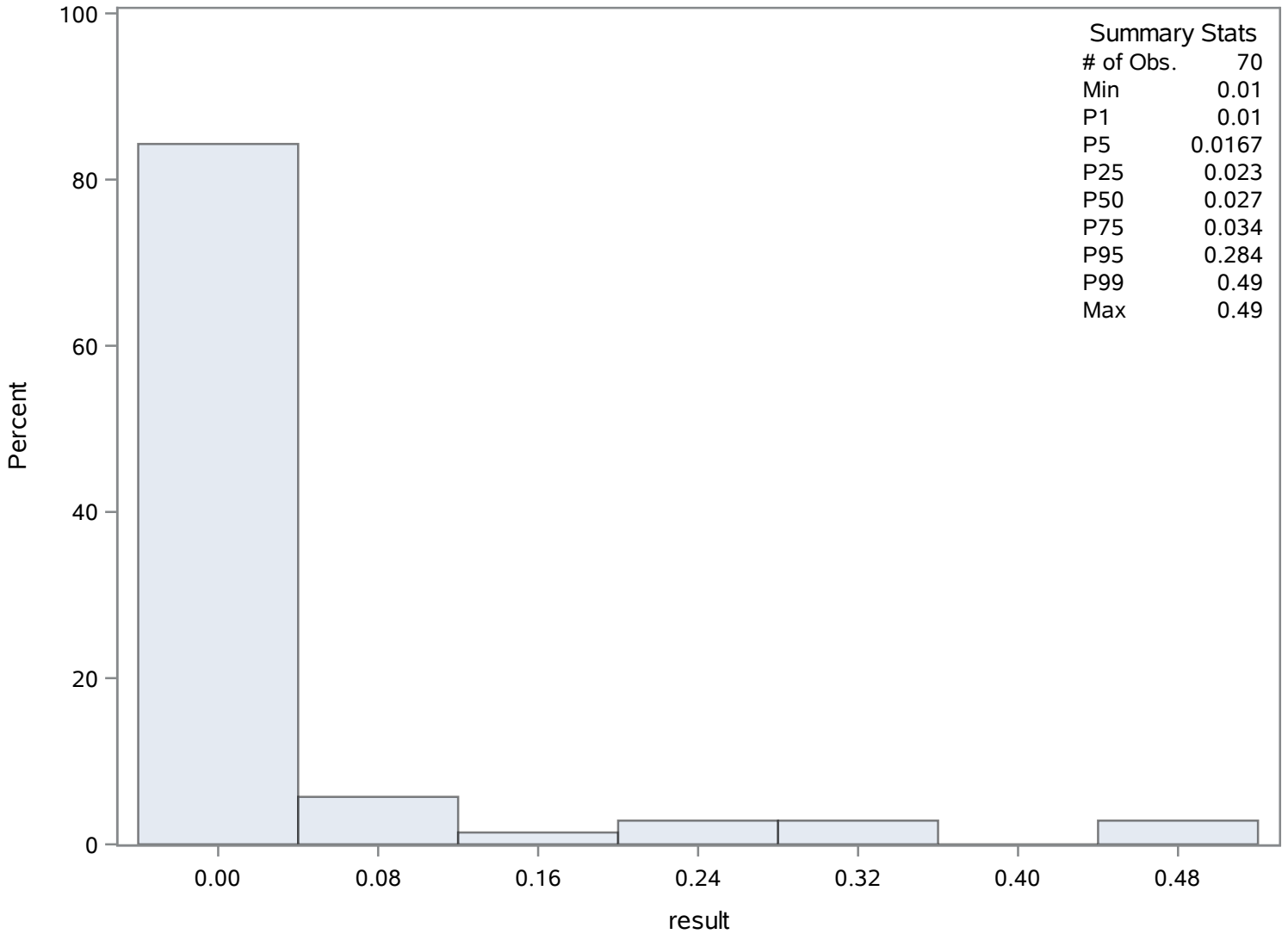
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0100	851	0.248	900
0.0140	883	0.284	876
0.0140	850	0.346	917
0.0167	870	0.489	848
0.0190	884	0.490	849

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	40.4948387	Sum Observations	2510.68
Std Deviation	10.9988969	Variance	120.975734
Skewness	0.234739	Kurtosis	-0.1538369
Uncorrected SS	109049.101	Corrected SS	7379.51975
Coeff Variation	27.1612316	Std Error Mean	1.39686131

Basic Statistical Measures			
Location		Variability	
Mean	40.49484	Std Deviation	10.99890
Median	40.60000	Variance	120.97573
Mode	25.00000	Range	51.70000
		Interquartile Range	14.00000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.98988	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	70.3
99%	70.3
95%	59.8
90%	54.3
75% Q3	47.2
50% Median	40.6
25% Q1	33.2
10%	25.0
5%	24.2

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

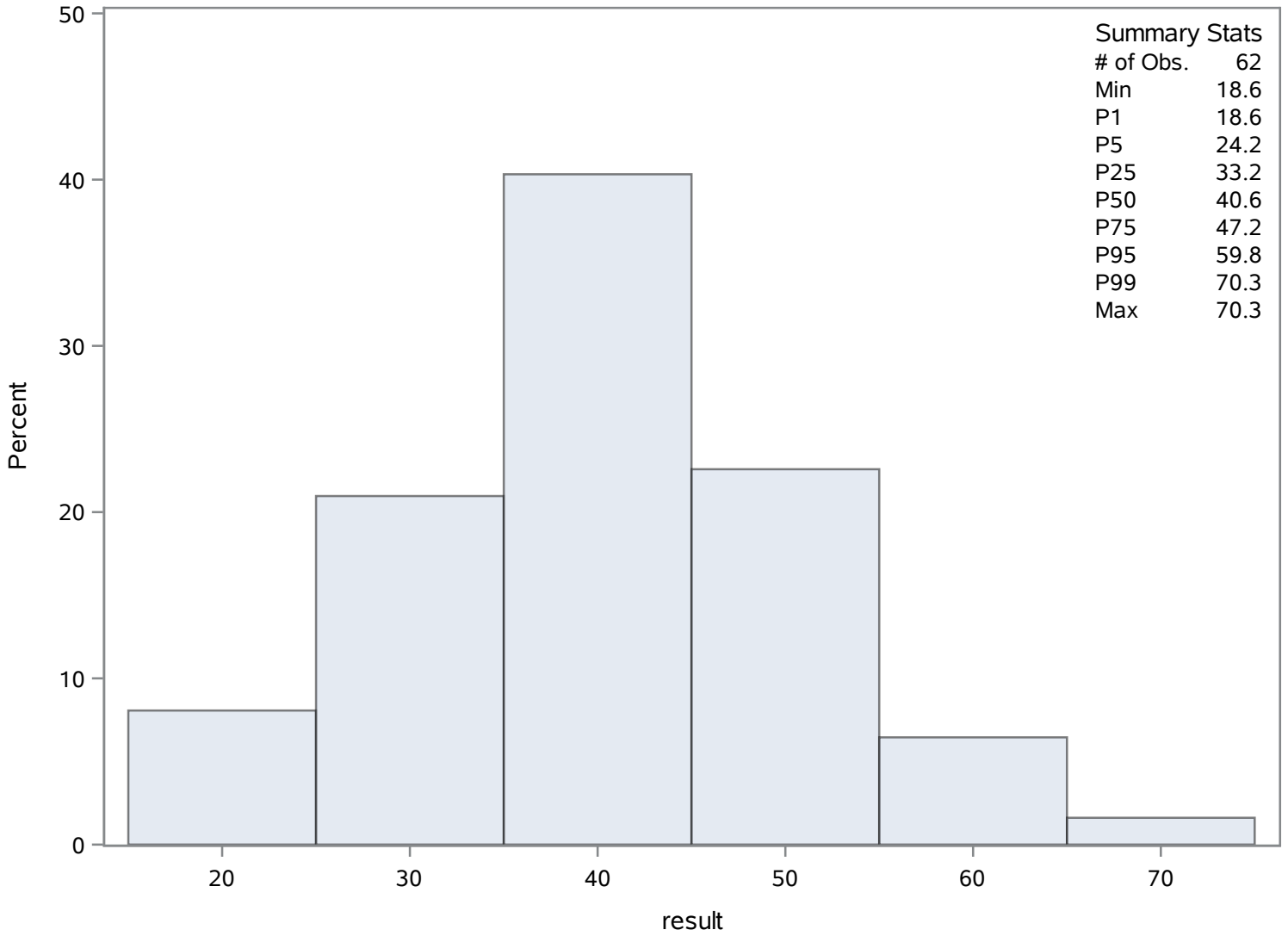
Quantiles (Definition 5)	
Level	Quantile
1%	18.6
0% Min	18.6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.6	933	56.8	943
21.5	925	59.8	955
24.1	934	60.8	979
24.2	931	61.5	940
24.7	930	70.3	947

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	66	Sum Weights	66
Mean	3593.78788	Sum Observations	237190
Std Deviation	1255.9173	Variance	1577328.26
Skewness	0.84242896	Kurtosis	2.52508426
Uncorrected SS	954936884	Corrected SS	102526337
Coeff Variation	34.9468956	Std Error Mean	154.592733

Basic Statistical Measures			
Location		Variability	
Mean	3593.788	Std Deviation	1256
Median	3633.000	Variance	1577328
Mode	2136.000	Range	7947
		Interquartile Range	1536

Note: The mode displayed is the smallest of 11 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.24681	Pr > t 	<.0001
Sign	M	33	Pr >= M 	<.0001
Signed Rank	S	1105.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8460
99%	8460
95%	5480
90%	5060
75% Q3	4066
50% Median	3633
25% Q1	2530
10%	2184
5%	2009

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

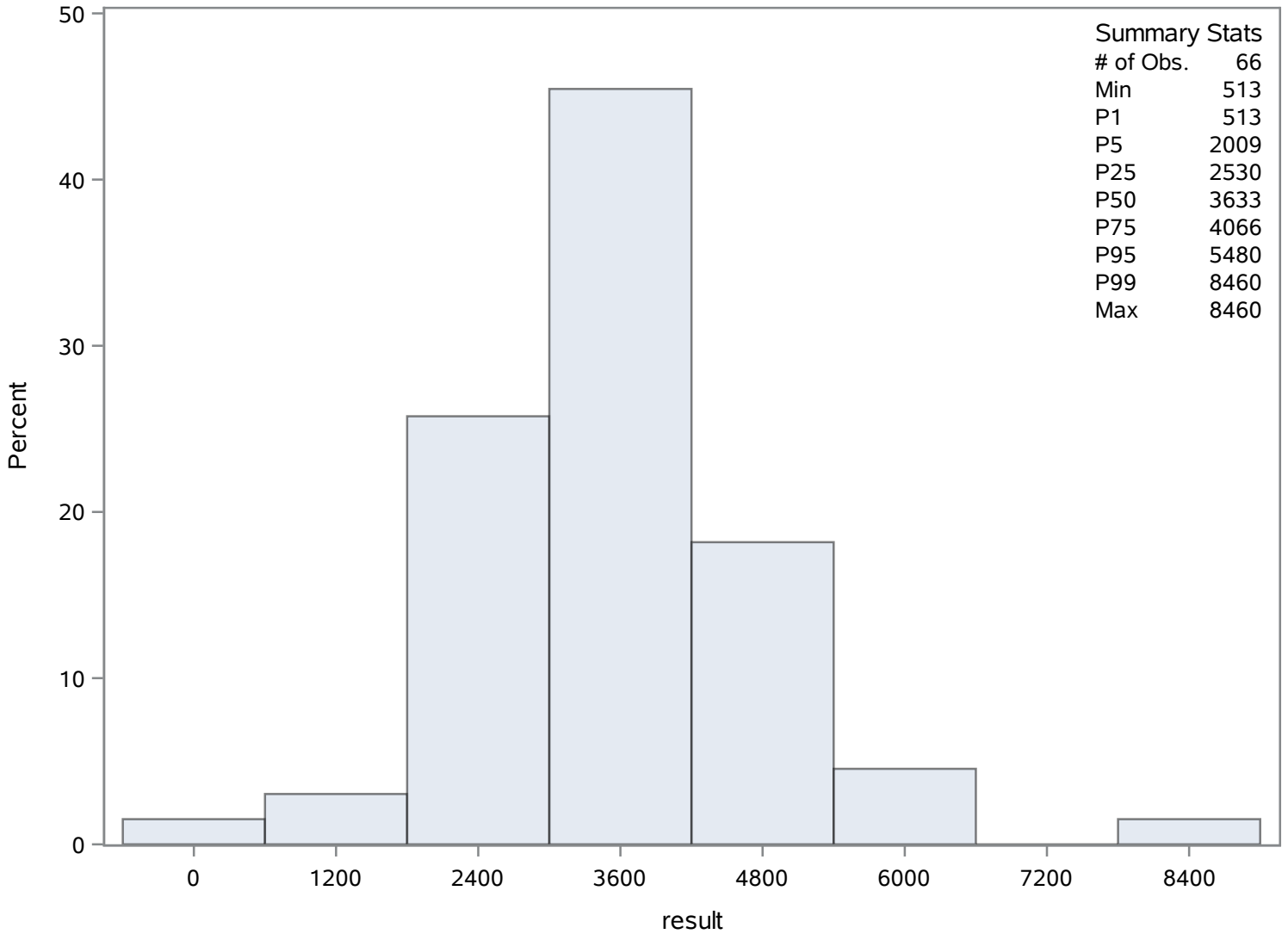
Quantiles (Definition 5)	
Level	Quantile
1%	513
0% Min	513

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
513	1014	5310	1021
1740	1016	5480	1006
1789	1002	5750	1045
2009	994	6190	1013
2136	989	8460	1018

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	51	Sum Weights	51
Mean	9.00407647	Sum Observations	459.2079
Std Deviation	0.2355114	Variance	0.05546562
Skewness	-1.941637	Kurtosis	8.79049183
Uncorrected SS	4137.51633	Corrected SS	2.77328095
Coeff Variation	2.6156086	Std Error Mean	0.03297819

Basic Statistical Measures			
Location		Variability	
Mean	9.004076	Std Deviation	0.23551
Median	9.000000	Variance	0.05547
Mode	9.000000	Range	1.62180
		Interquartile Range	0.20000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	273.0312	Pr > t 	<.0001
Sign	M	25.5	Pr >= M 	<.0001
Signed Rank	S	663	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.5218
99%	9.5218
95%	9.3000
90%	9.2000
75% Q3	9.1000
50% Median	9.0000
25% Q1	8.9000
10%	8.8000
5%	8.7000

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

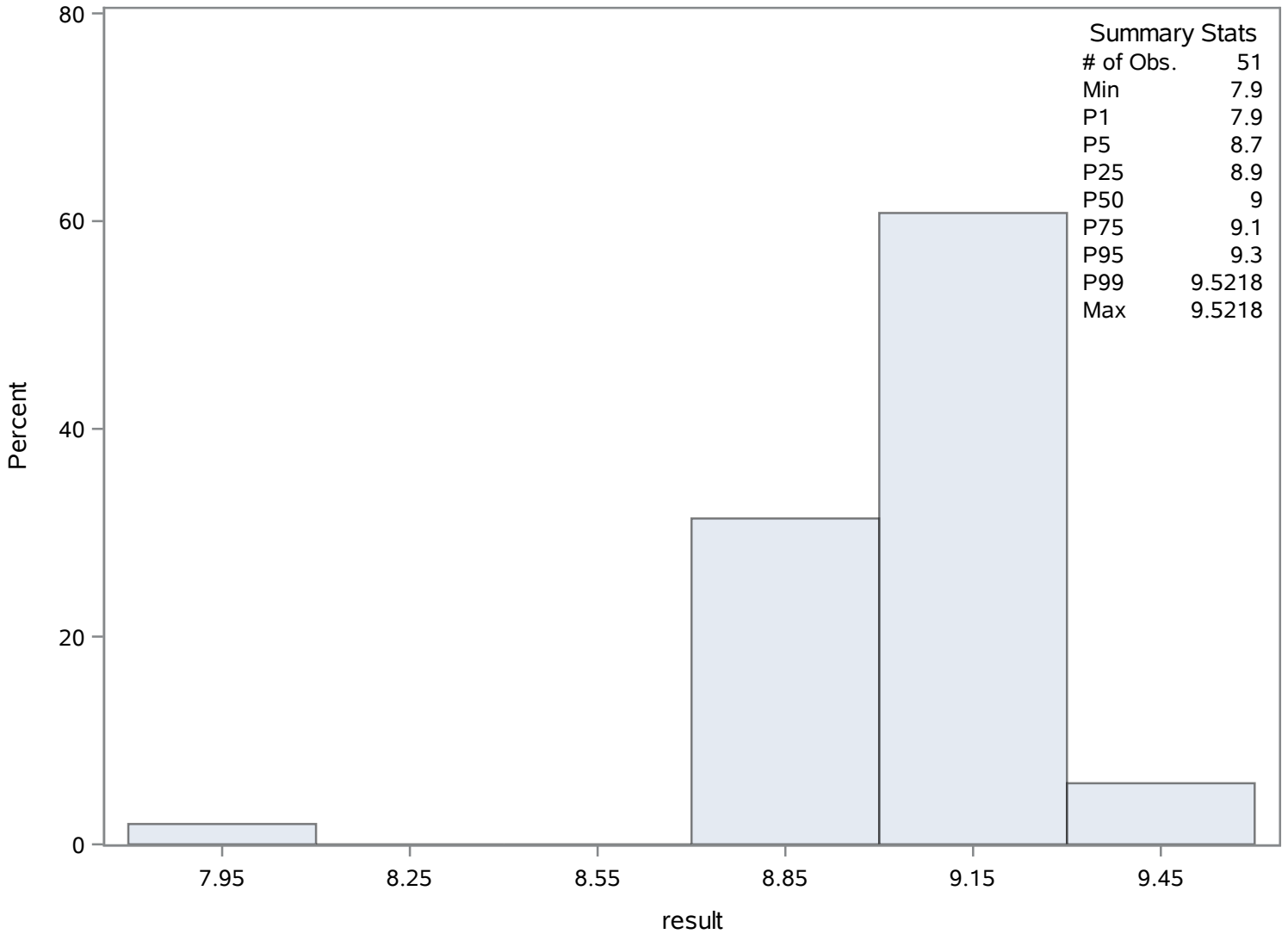
Quantiles (Definition 5)	
Level	Quantile
1%	7.9000
0% Min	7.9000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.9	1083	9.2000	1094
8.7	1087	9.2861	1052
8.7	1086	9.3000	1051
8.7	1082	9.3000	1059
8.7	1056	9.5218	1050

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	1061.74016	Sum Observations	65827.89
Std Deviation	294.947182	Variance	86993.8403
Skewness	0.10163717	Kurtosis	-0.4587973
Uncorrected SS	75198738.8	Corrected SS	5306624.26
Coeff Variation	27.7796012	Std Error Mean	37.4583296

Basic Statistical Measures			
Location		Variability	
Mean	1061.740	Std Deviation	294.94718
Median	1070.000	Variance	86994
Mode	1100.000	Range	1319
		Interquartile Range	409.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.34457	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1750
99%	1750
95%	1550
90%	1450
75% Q3	1290
50% Median	1070
25% Q1	881
10%	638
5%	613
1%	431
0% Min	431

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

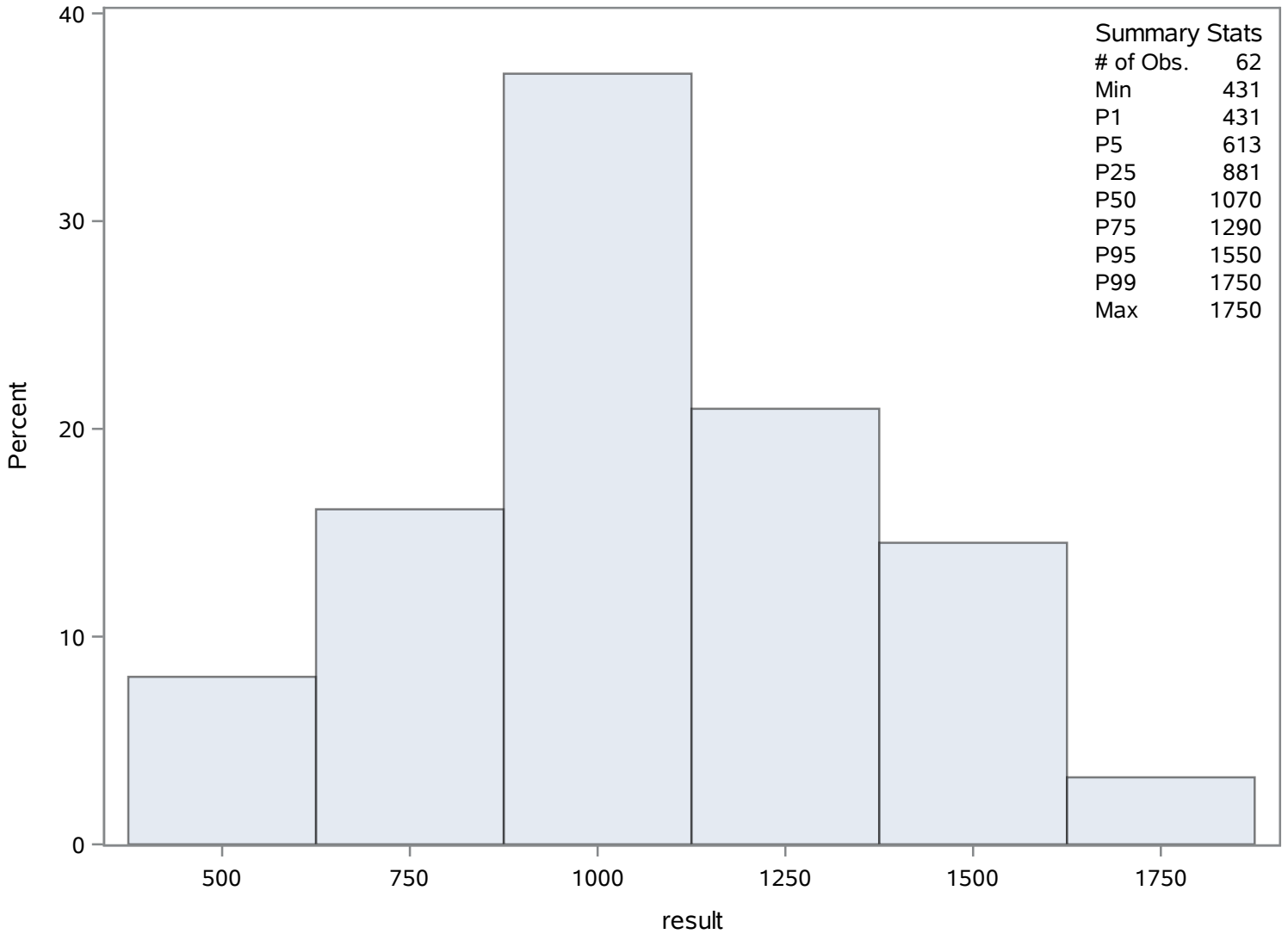
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
431	1112	1480	1137
572	1104	1550	1134
600	1113	1580	1119
613	1110	1630	1158
618	1101	1750	1126

Chassahowitzka River - Fixed Station

Source: Springs Data
Crab Creek Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	117	Sum Weights	117
Mean	6805.06923	Sum Observations	796193.1
Std Deviation	1748.30487	Variance	3056569.92
Skewness	0.16632546	Kurtosis	-0.4913989
Uncorrected SS	5772711277	Corrected SS	354562111
Coeff Variation	25.6912136	Std Error Mean	161.630842

Basic Statistical Measures			
Location		Variability	
Mean	6805.069	Std Deviation	1748
Median	6646.800	Variance	3056570
Mode	3860.000	Range	7579
		Interquartile Range	2253

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	42.10254	Pr > t 	<.0001
Sign	M	58.5	Pr >= M 	<.0001
Signed Rank	S	3451.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10877.0
99%	10800.0
95%	9750.0
90%	9170.0
75% Q3	8058.0
50% Median	6646.8
25% Q1	5805.0
10%	4238.0
5%	3977.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

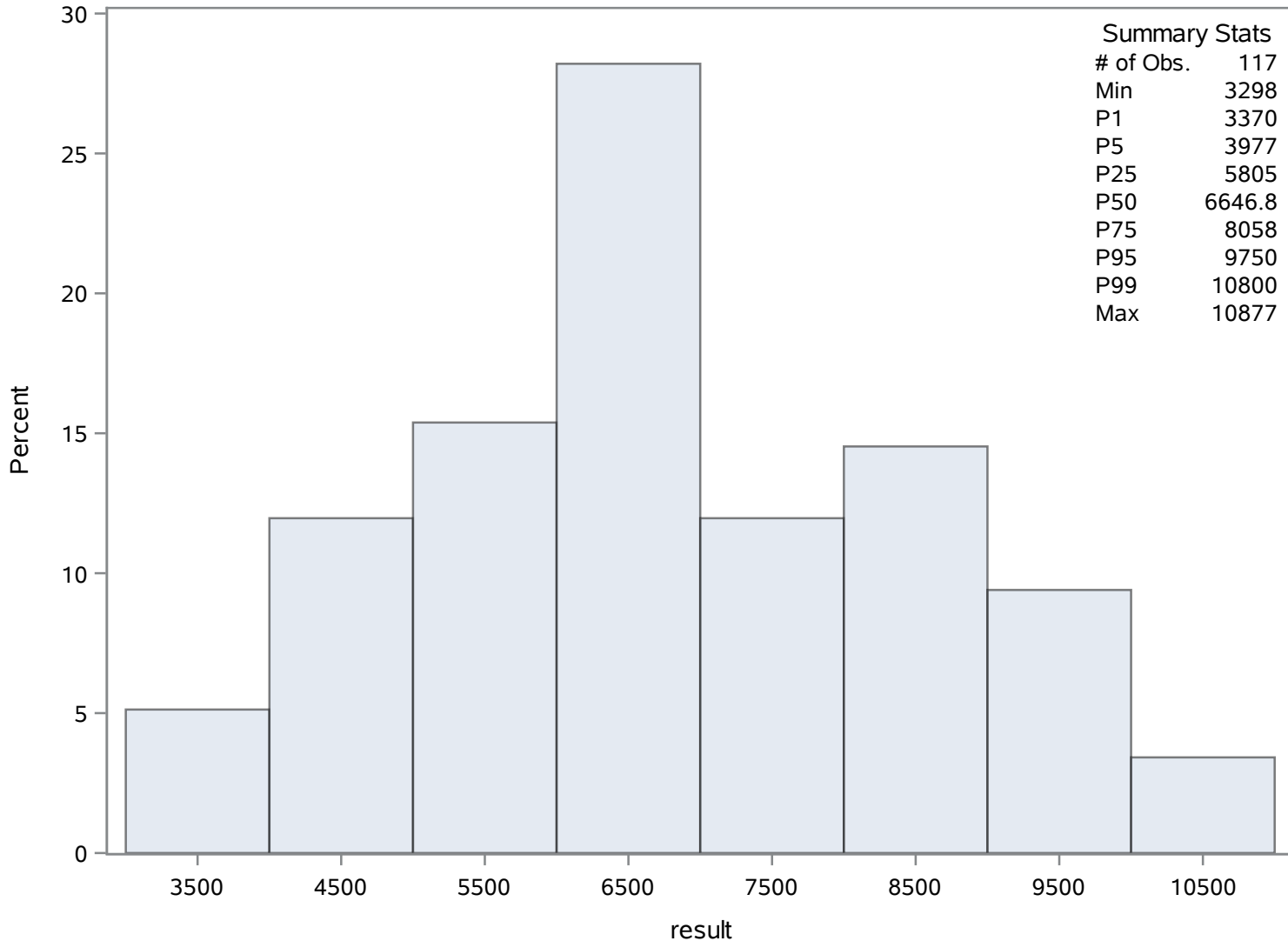
Quantiles (Definition 5)	
Level	Quantile
1%	3370.0
0% Min	3298.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3298	1181	9888.0	1195
3370	1180	10216.1	1275
3840	1163	10366.0	1274
3860	1237	10800.0	1210
3860	1166	10877.0	1209

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	1.194	Sum Observations	54.924
Std Deviation	0.2512564	Variance	0.06312978
Skewness	0.31023749	Kurtosis	-0.0645071
Uncorrected SS	68.420096	Corrected SS	2.84084
Coeff Variation	21.0432495	Std Error Mean	0.03704573

Basic Statistical Measures			
Location		Variability	
Mean	1.194000	Std Deviation	0.25126
Median	1.155000	Variance	0.06313
Mode	0.920000	Range	1.13000
		Interquartile Range	0.38000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	32.23043	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.790
99%	1.790
95%	1.610
90%	1.540
75% Q3	1.390
50% Median	1.155
25% Q1	1.010
10%	0.920
5%	0.764

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.660
0% Min	0.660

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.660	1276	1.54	1283
0.760	1302	1.55	1282
0.764	1303	1.61	1297
0.920	1315	1.76	1321
0.920	1314	1.79	1289

Chassahowitzka River - Fixed Station

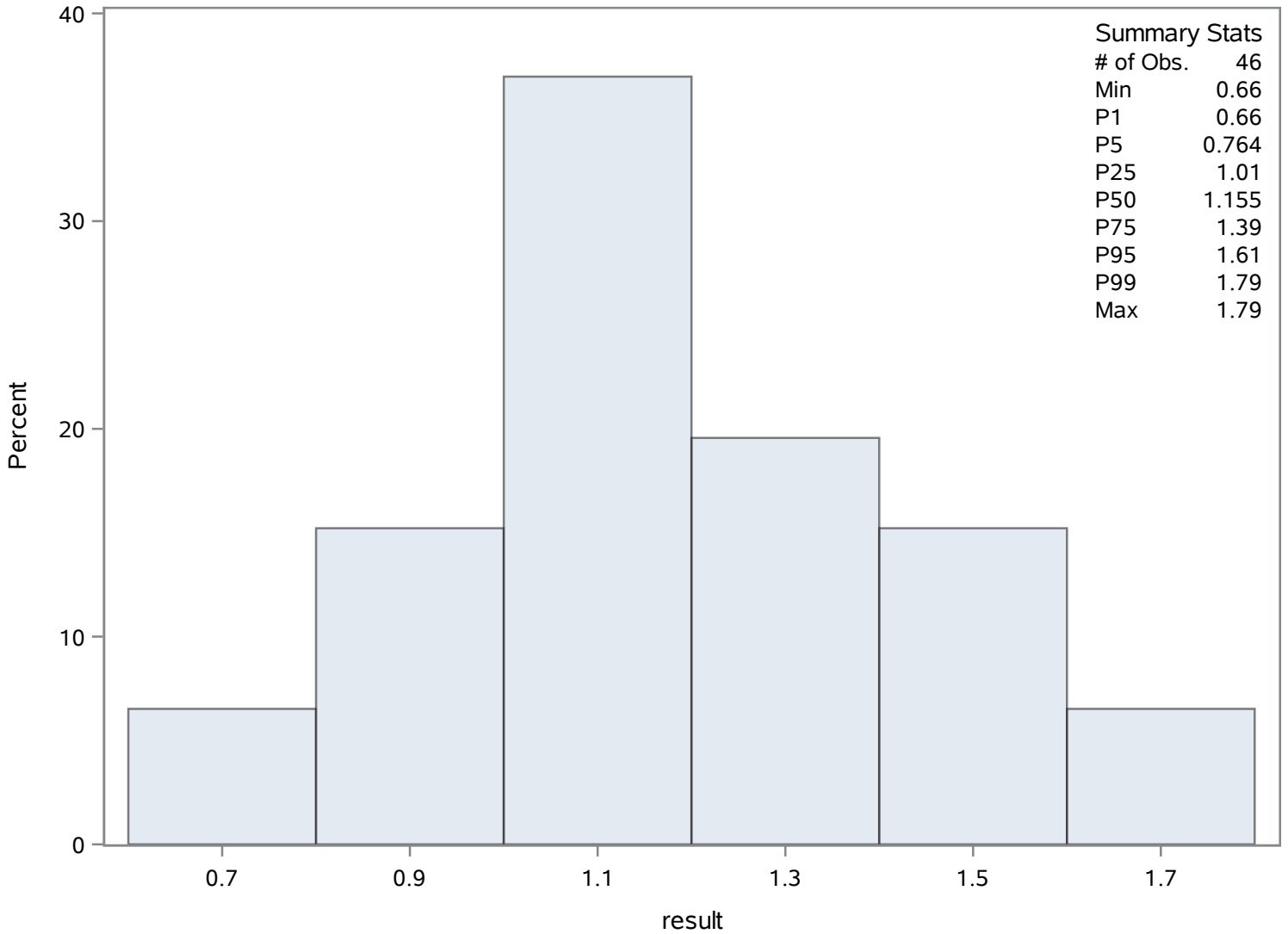
Source: Springs Data

Crab Creek Spring

Strontium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	10	Sum Weights	10
Mean	777.072	Sum Observations	7770.72
Std Deviation	604.62032	Variance	365565.732
Skewness	-0.0385544	Kurtosis	-1.2596877
Uncorrected SS	9328500.52	Corrected SS	3290091.59
Coeff Variation	77.8075031	Std Error Mean	191.197733

Basic Statistical Measures			
Location		Variability	
Mean	777.0720	Std Deviation	604.62032
Median	855.0000	Variance	365566
Mode	50.0000	Range	1699
		Interquartile Range	1110

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.064232	Pr > t 	0.0028
Sign	M	5	Pr >= M 	0.0020
Signed Rank	S	27.5	Pr >= S 	0.0020

Quantiles (Definition 5)	
Level	Quantile
100% Max	1700.00
99%	1700.00
95%	1700.00
90%	1575.00
75% Q3	1160.00
50% Median	855.00
25% Q1	50.00
10%	25.36
5%	0.72
1%	0.72
0% Min	0.72

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) ug/L

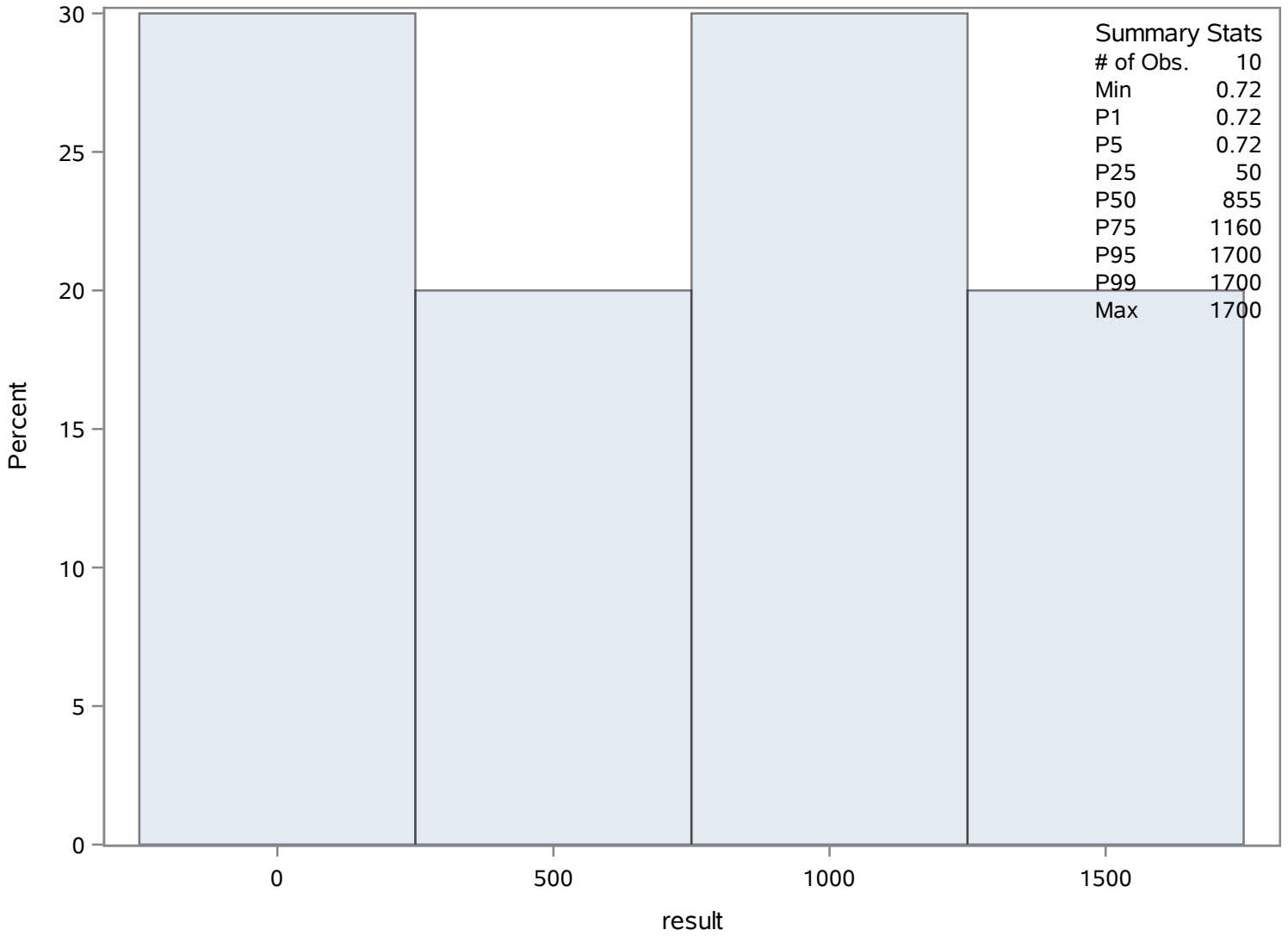
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.72	1329	1000	1327
50.00	1324	1070	1328
50.00	1323	1160	1325
580.00	1331	1450	1326
710.00	1330	1700	1322

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	69	Sum Weights	69
Mean	280.464058	Sum Observations	19352.02
Std Deviation	79.1697694	Variance	6267.85238
Skewness	0.17241817	Kurtosis	-0.5009863
Uncorrected SS	5853760.02	Corrected SS	426213.962
Coeff Variation	28.2281337	Std Error Mean	9.53092022

Basic Statistical Measures			
Location		Variability	
Mean	280.4641	Std Deviation	79.16977
Median	280.0000	Variance	6268
Mode	281.0000	Range	323.51000
		Interquartile Range	103.47000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.42676	Pr > t 	<.0001
Sign	M	34.5	Pr >= M 	<.0001
Signed Rank	S	1207.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	457.00
99%	457.00
95%	406.00
90%	392.00
75% Q3	340.00
50% Median	280.00
25% Q1	236.53
10%	163.00
5%	158.00
1%	133.49
0% Min	133.49

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
133.49	1354	406	1359
150.00	1381	406	1376
150.00	1346	444	1368
158.00	1341	450	1400
158.00	1340	457	1361

Chassahowitzka River - Fixed Station

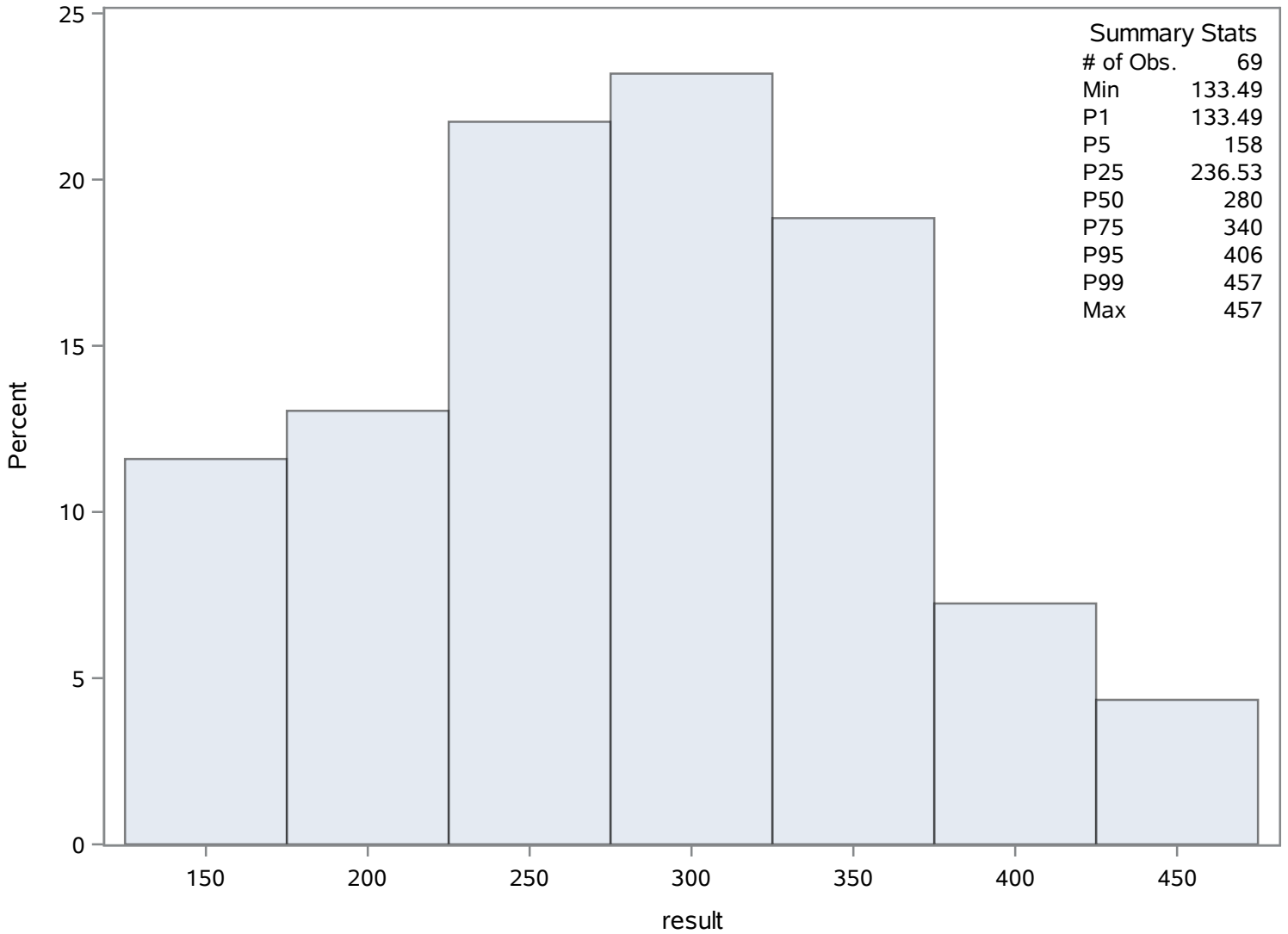
Source: Springs Data

Crab Creek Spring

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Crab Creek Spring

Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	23.2458065	Sum Observations	1441.24
Std Deviation	0.24481876	Variance	0.05993622
Skewness	2.00016359	Kurtosis	7.43016534
Uncorrected SS	33506.4422	Corrected SS	3.65610968
Coeff Variation	1.05317386	Std Error Mean	0.03109201

Basic Statistical Measures			
Location		Variability	
Mean	23.24581	Std Deviation	0.24482
Median	23.20000	Variance	0.05994
Mode	23.20000	Range	1.67000
		Interquartile Range	0.14000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	747.6456	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.40
99%	24.40
95%	23.67
90%	23.60
75% Q3	23.26
50% Median	23.20
25% Q1	23.12
10%	23.08
5%	23.02
1%	22.73
0% Min	22.73

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
22.73	1439	23.60	1412
22.80	1436	23.67	1418
22.97	1453	23.70	1403
23.02	1426	23.70	1406
23.04	1444	24.40	1401

Chassahowitzka River - Fixed Station

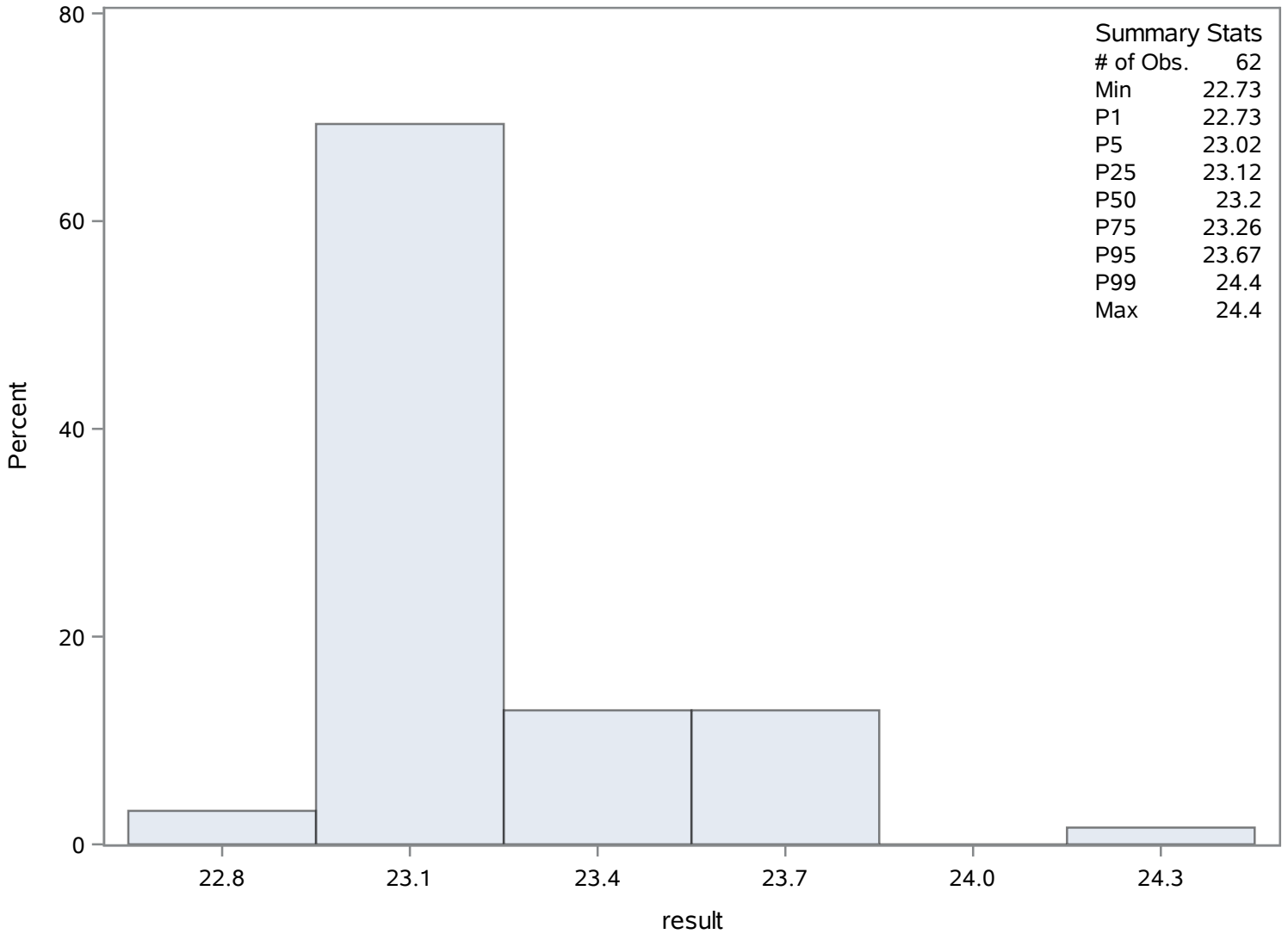
Source: Springs Data

Crab Creek Spring

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Crab Creek Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	69	Sum Weights	69
Mean	3.92094203	Sum Observations	270.545
Std Deviation	5.88580729	Variance	34.6427274
Skewness	3.28650057	Kurtosis	10.3425637
Uncorrected SS	3416.49673	Corrected SS	2355.70546
Coeff Variation	150.112071	Std Error Mean	0.70856793

Basic Statistical Measures			
Location		Variability	
Mean	3.920942	Std Deviation	5.88581
Median	2.410000	Variance	34.64273
Mode	1.800000	Range	29.92000
		Interquartile Range	1.63000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	5.533615	Pr > t 	<.0001
Sign	M	34.5	Pr >= M 	<.0001
Signed Rank	S	1207.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.00
99%	30.00
95%	23.20
90%	6.16
75% Q3	3.29
50% Median	2.41
25% Q1	1.66
10%	0.17
5%	0.13
1%	0.08
0% Min	0.08

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.08	1485	16.1	1513
0.10	1464	23.2	1514
0.10	1463	23.4	1528
0.13	1498	26.0	1517
0.13	1491	30.0	1531

Chassahowitzka River - Fixed Station

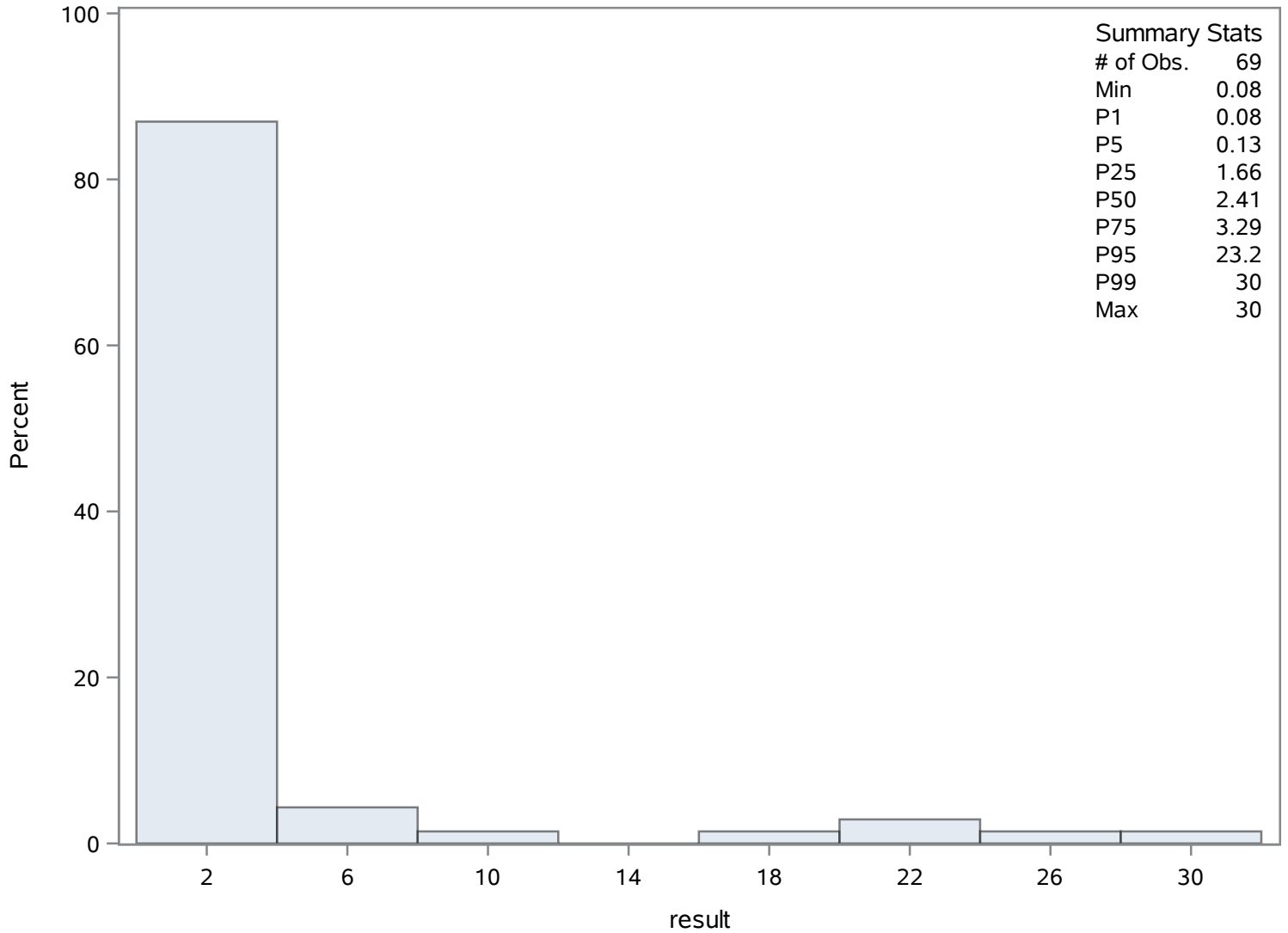
Source: Springs Data

Crab Creek Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Crab Creek Spring

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	7.35322581	Sum Observations	455.9
Std Deviation	0.0999471	Variance	0.00998942
Skewness	0.18722757	Kurtosis	0.57268025
Uncorrected SS	3352.945	Corrected SS	0.60935484
Coeff Variation	1.359228	Std Error Mean	0.01269329

Basic Statistical Measures			
Location		Variability	
Mean	7.353226	Std Deviation	0.09995
Median	7.340000	Variance	0.00999
Mode	7.340000	Range	0.52000
		Interquartile Range	0.12000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	579.3	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.61
99%	7.61
95%	7.54
90%	7.50
75% Q3	7.42
50% Median	7.34
25% Q1	7.30
10%	7.23
5%	7.21
1%	7.09
0% Min	7.09

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
pH (Total) SU

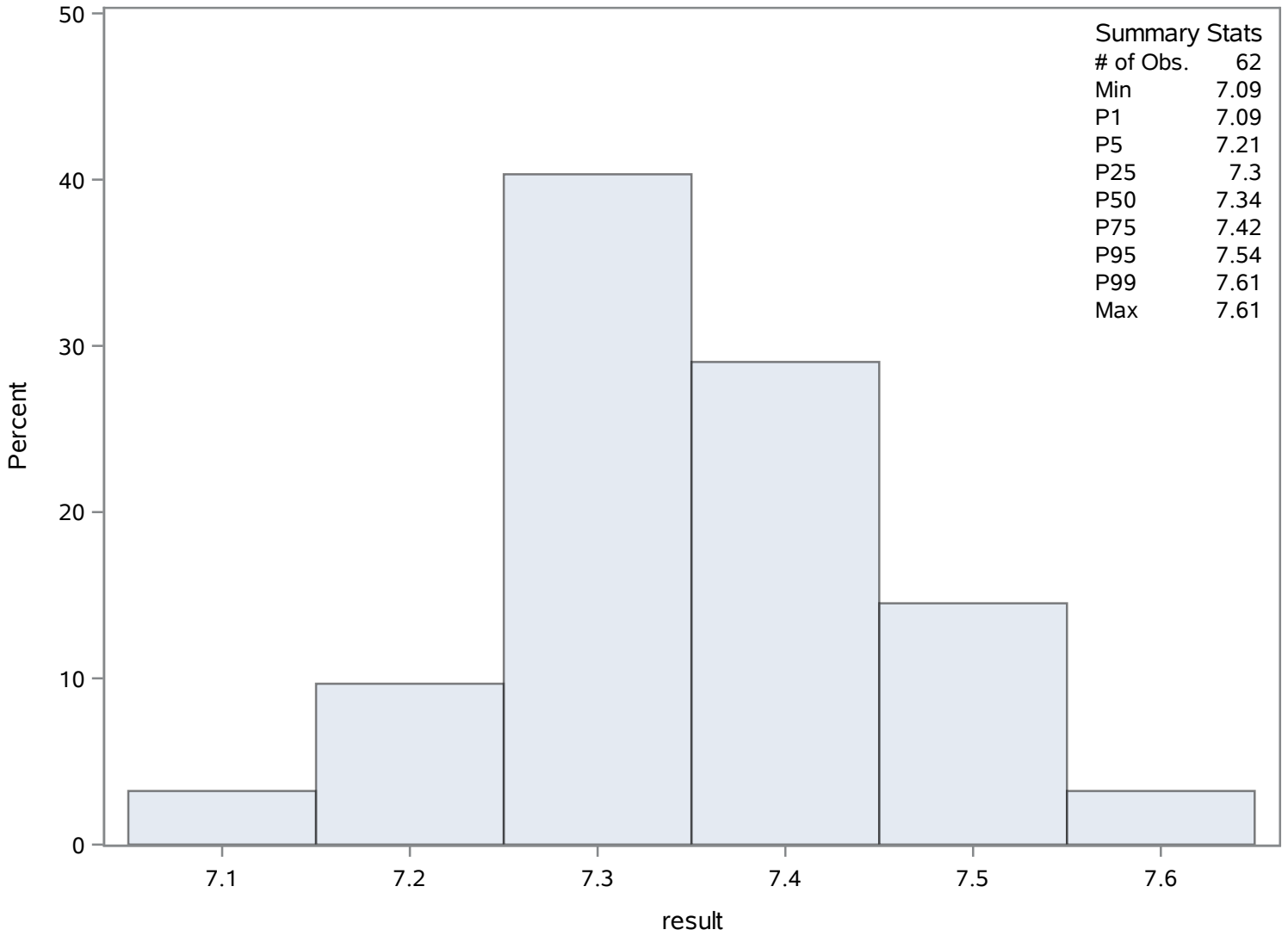
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.09	1552	7.54	1535
7.13	1549	7.54	1536
7.21	1581	7.54	1541
7.21	1565	7.55	1534
7.22	1564	7.61	1543

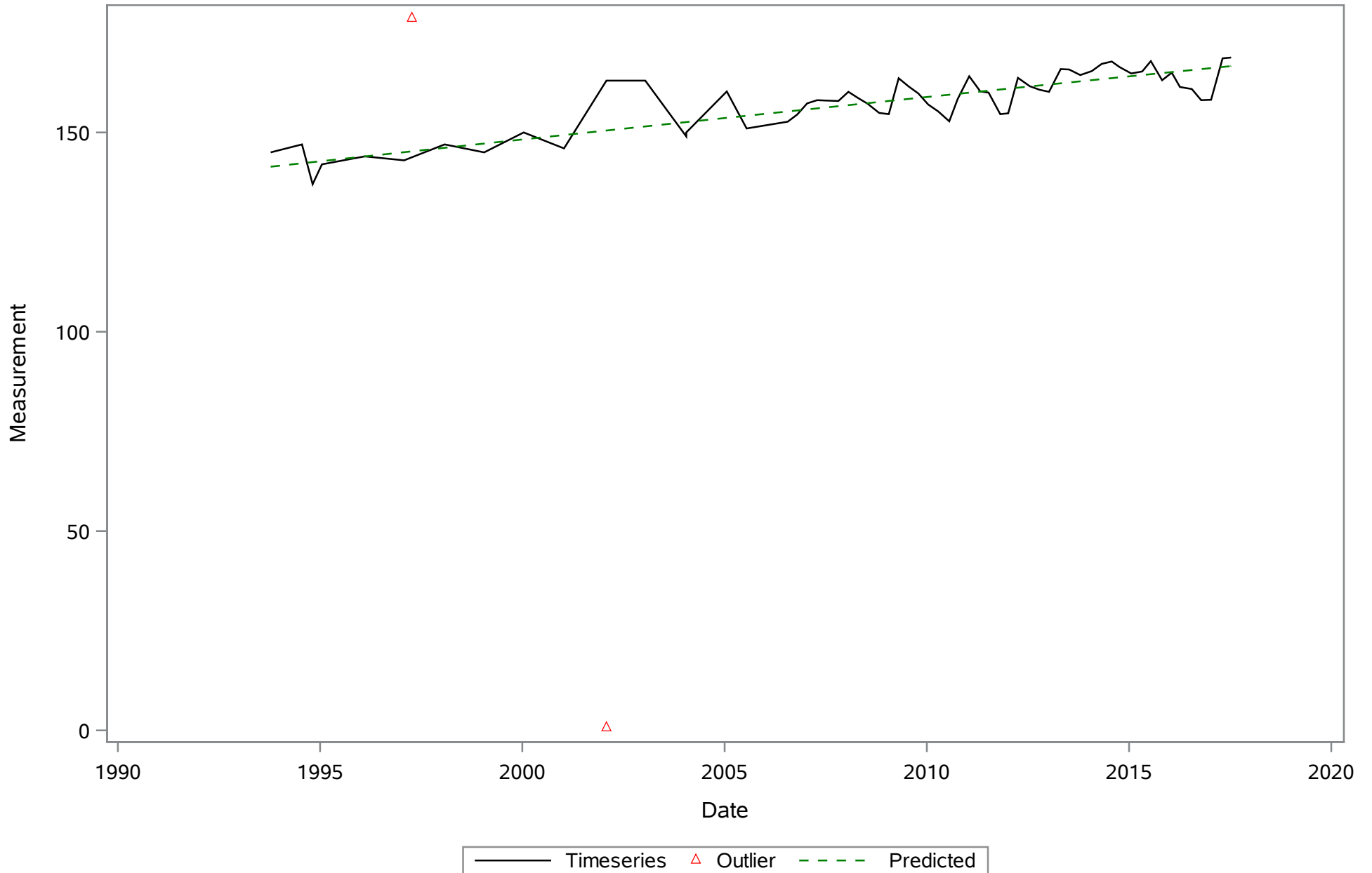
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
pH (Total) SU

The UNIVARIATE Procedure

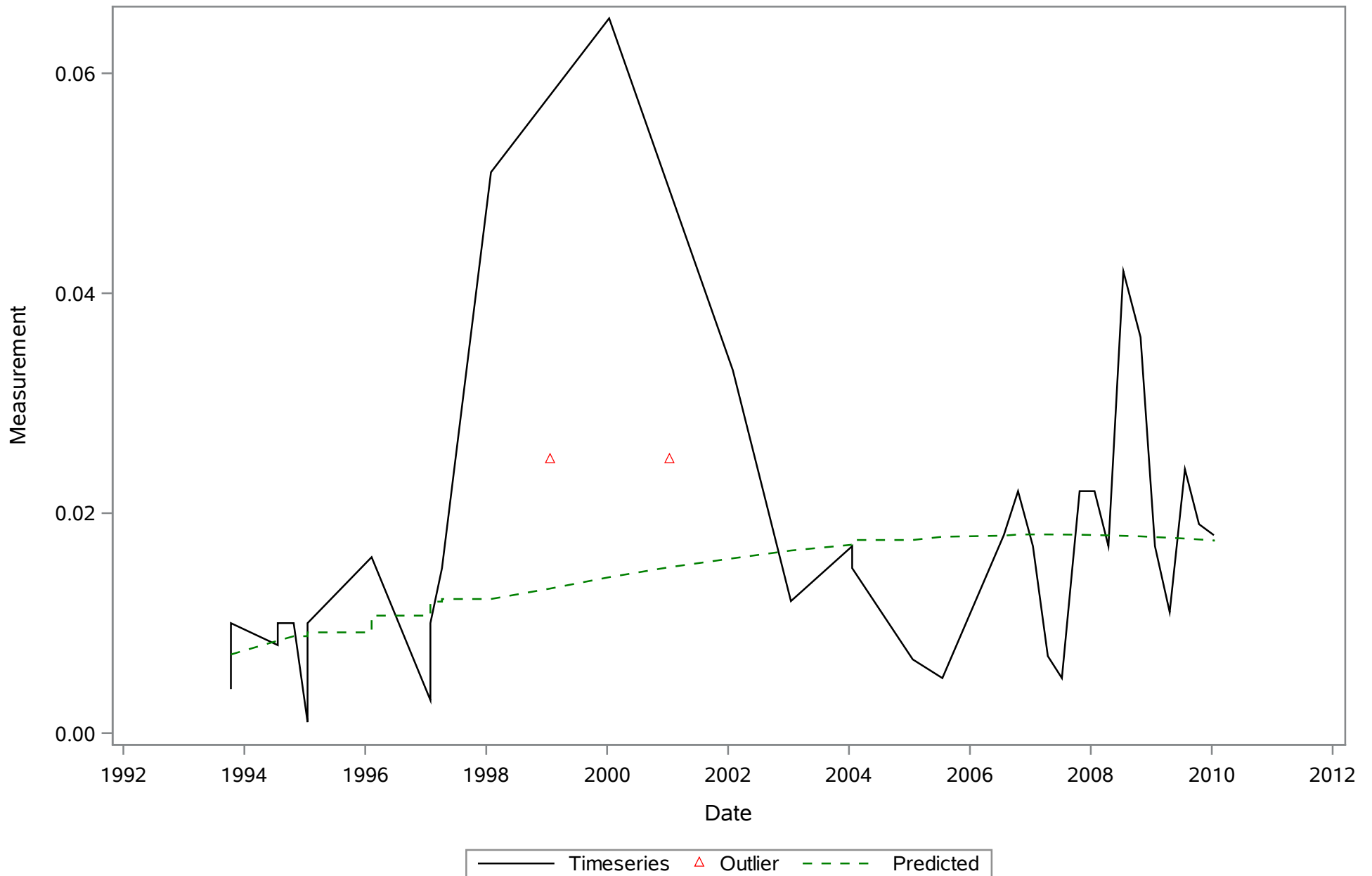
Distribution of result



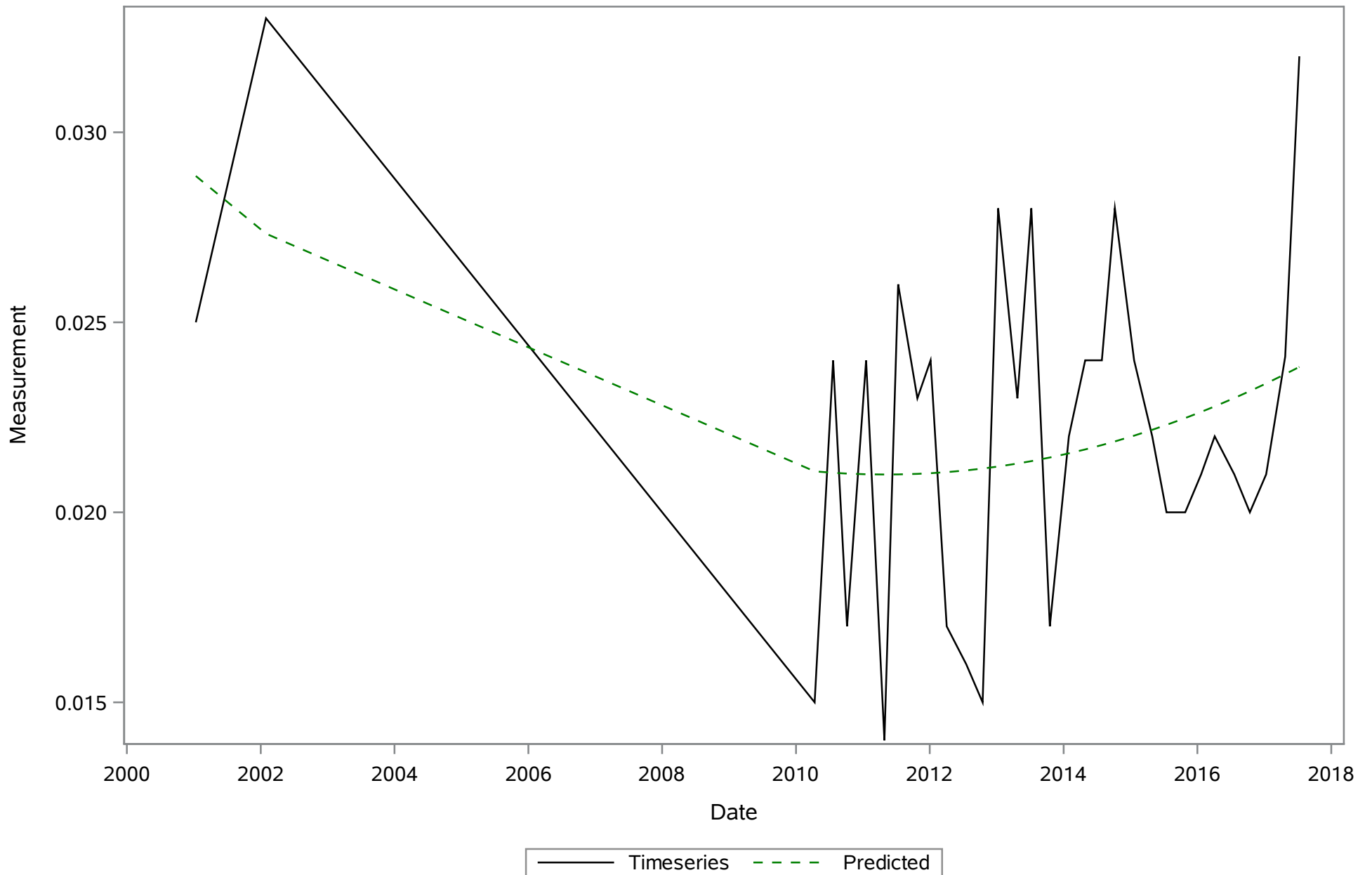
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Alkalinity (Total) mg/L



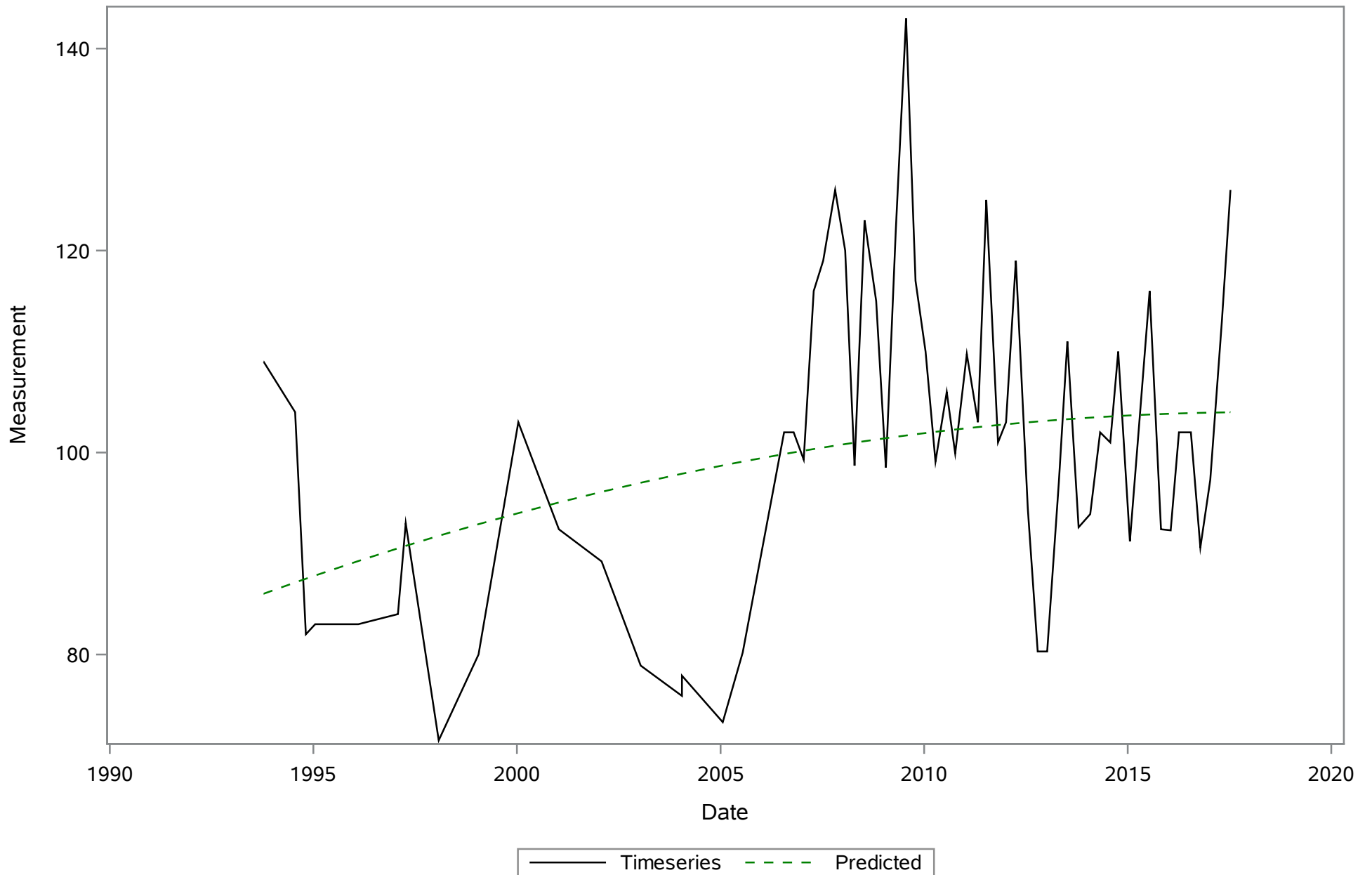
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Dissolved) mg/L



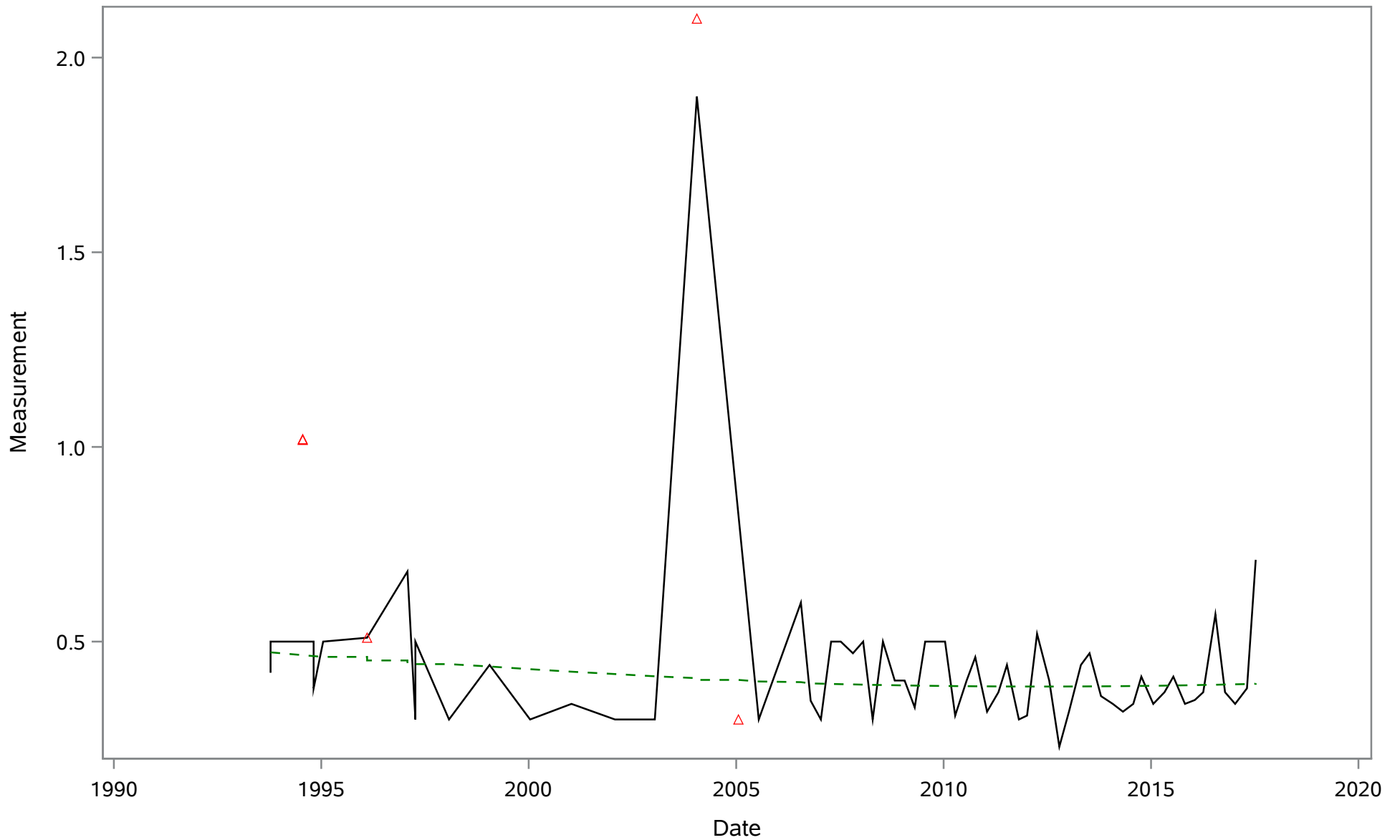
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Calcium (Dissolved) mg/L

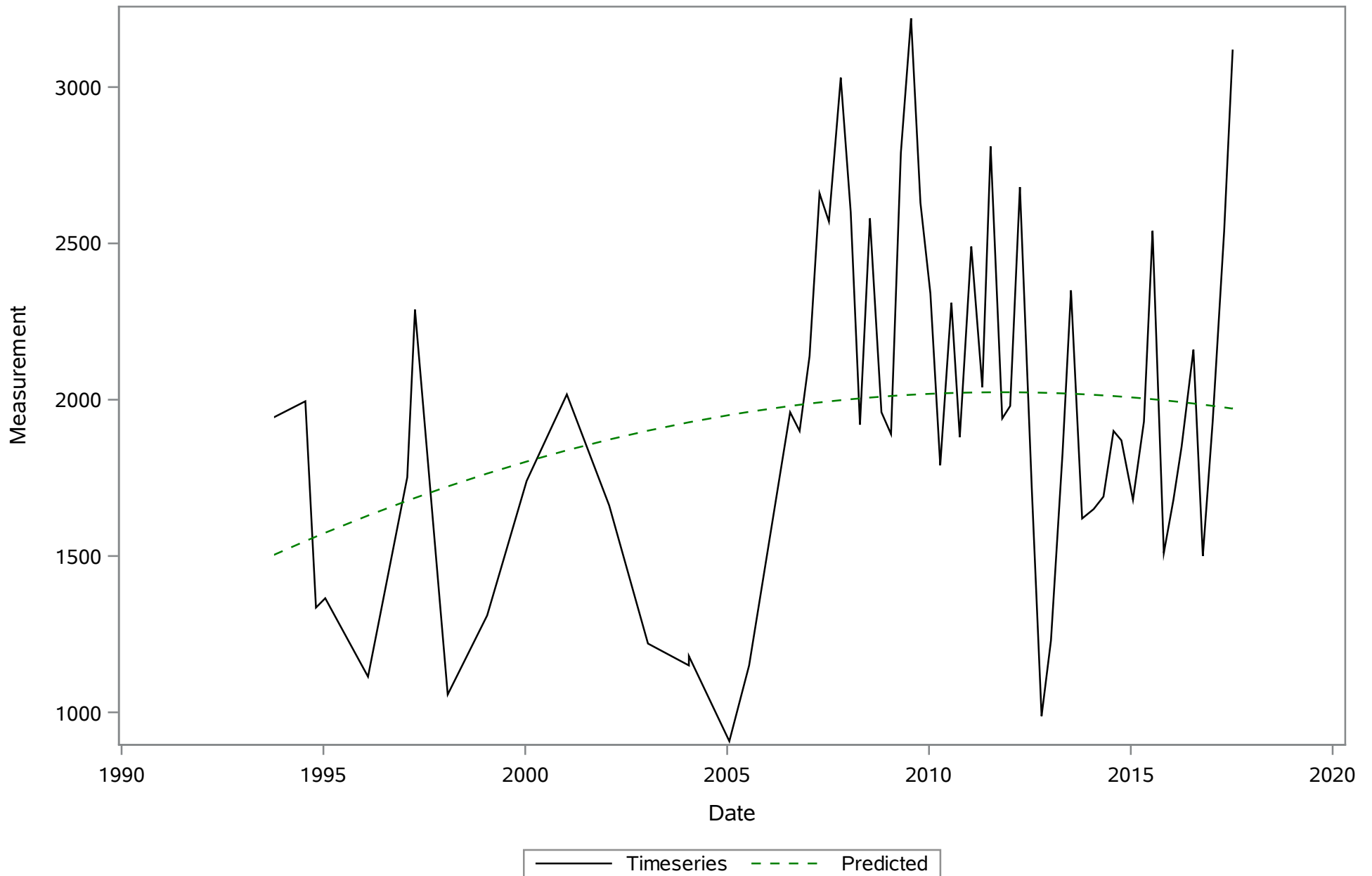


Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Carbon- Total Organic (Total) mg/L

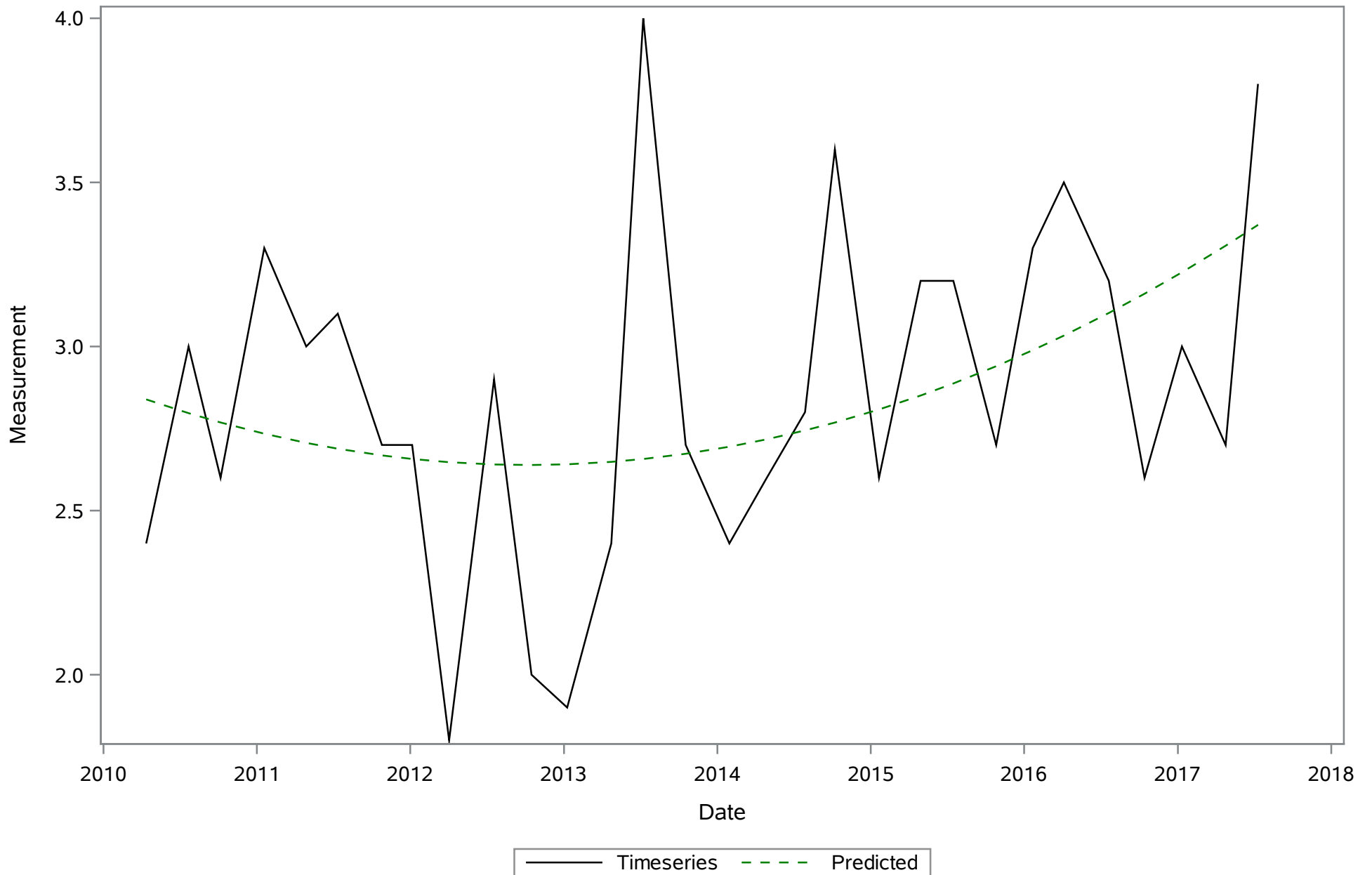


— Timeseries △ Outlier - - - Predicted

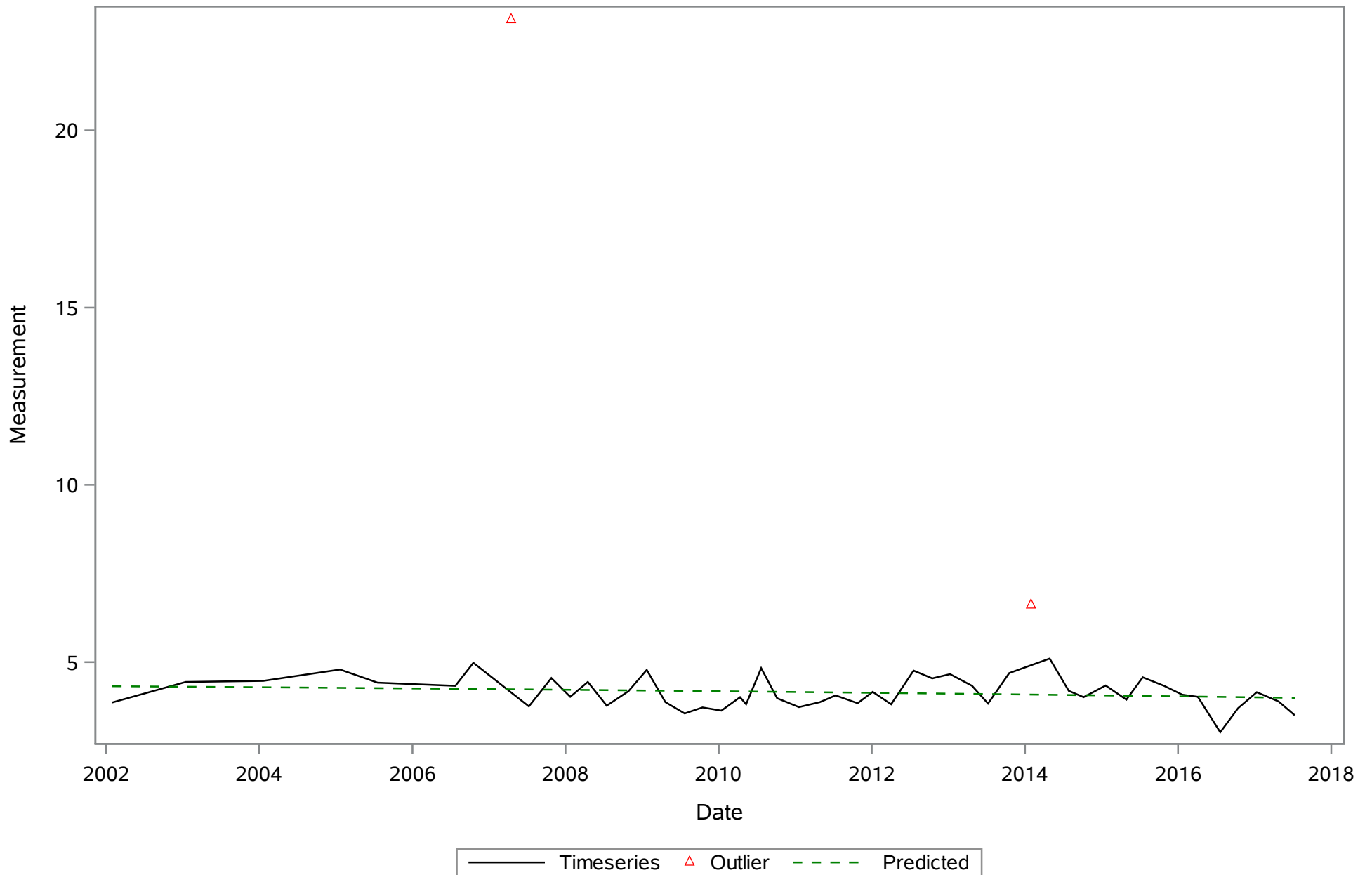
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Chloride (Dissolved) mg/L



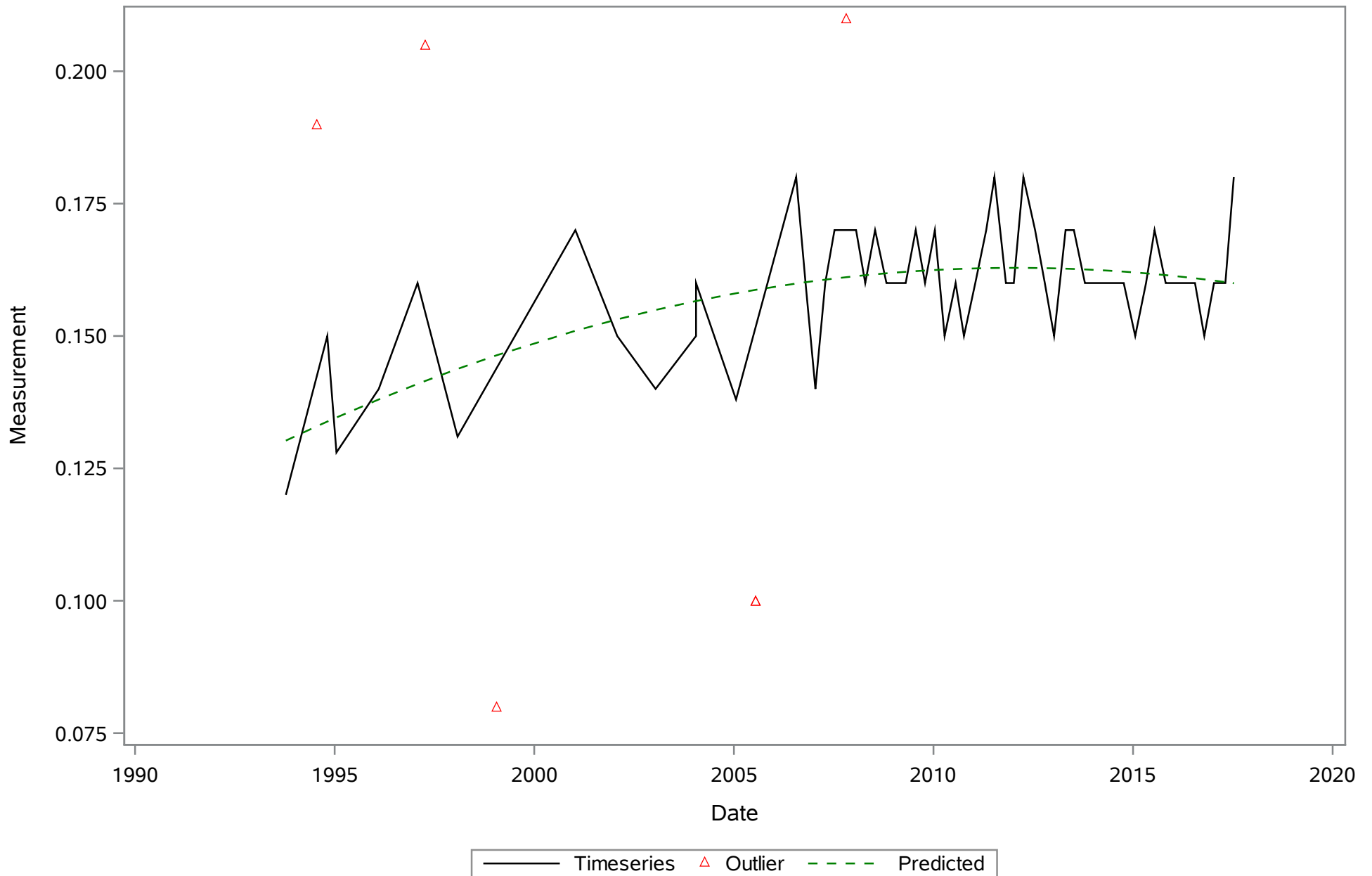
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Color (Dissolved) PCU



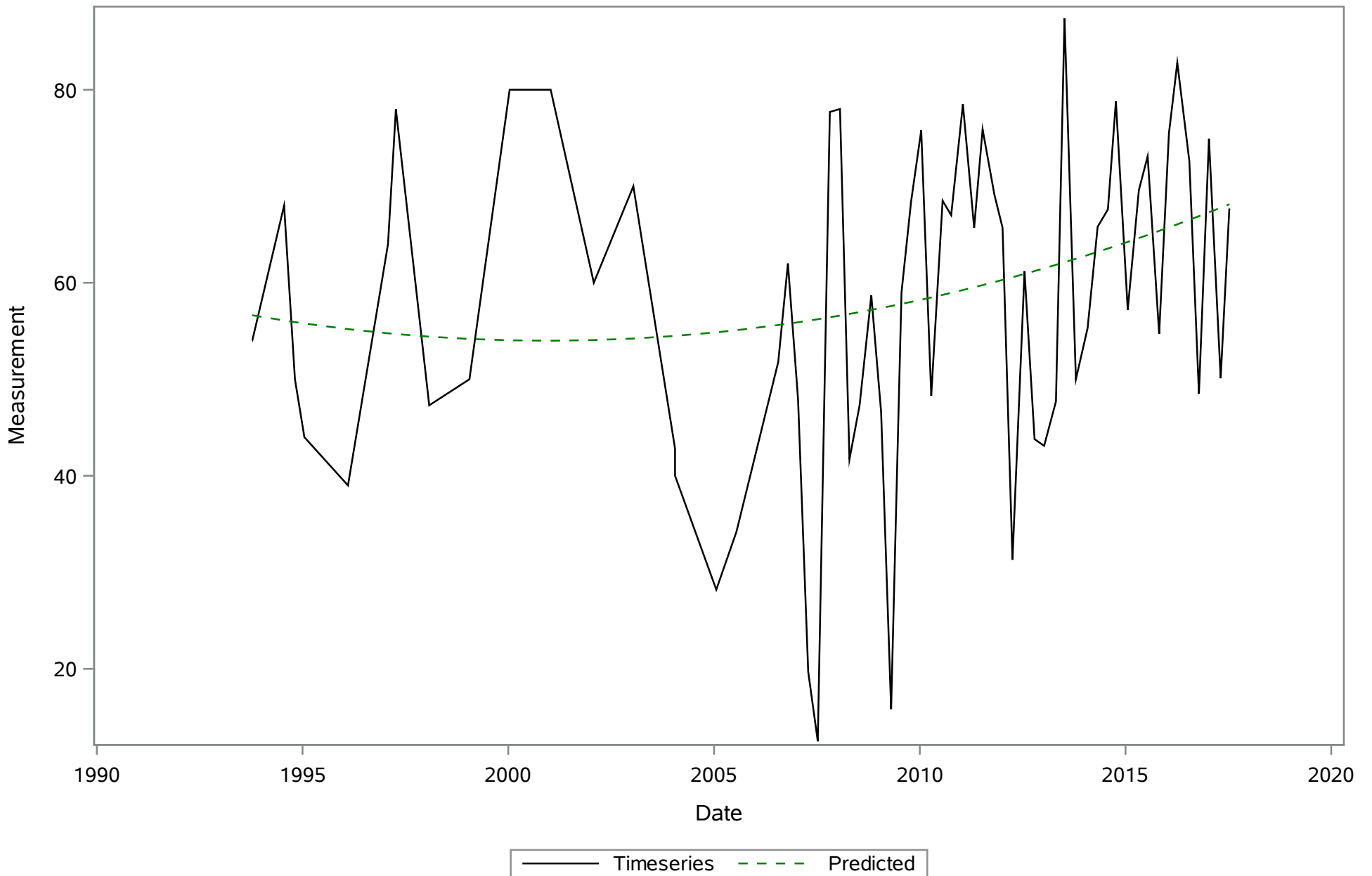
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Dissolved Oxygen (Total) mg/L



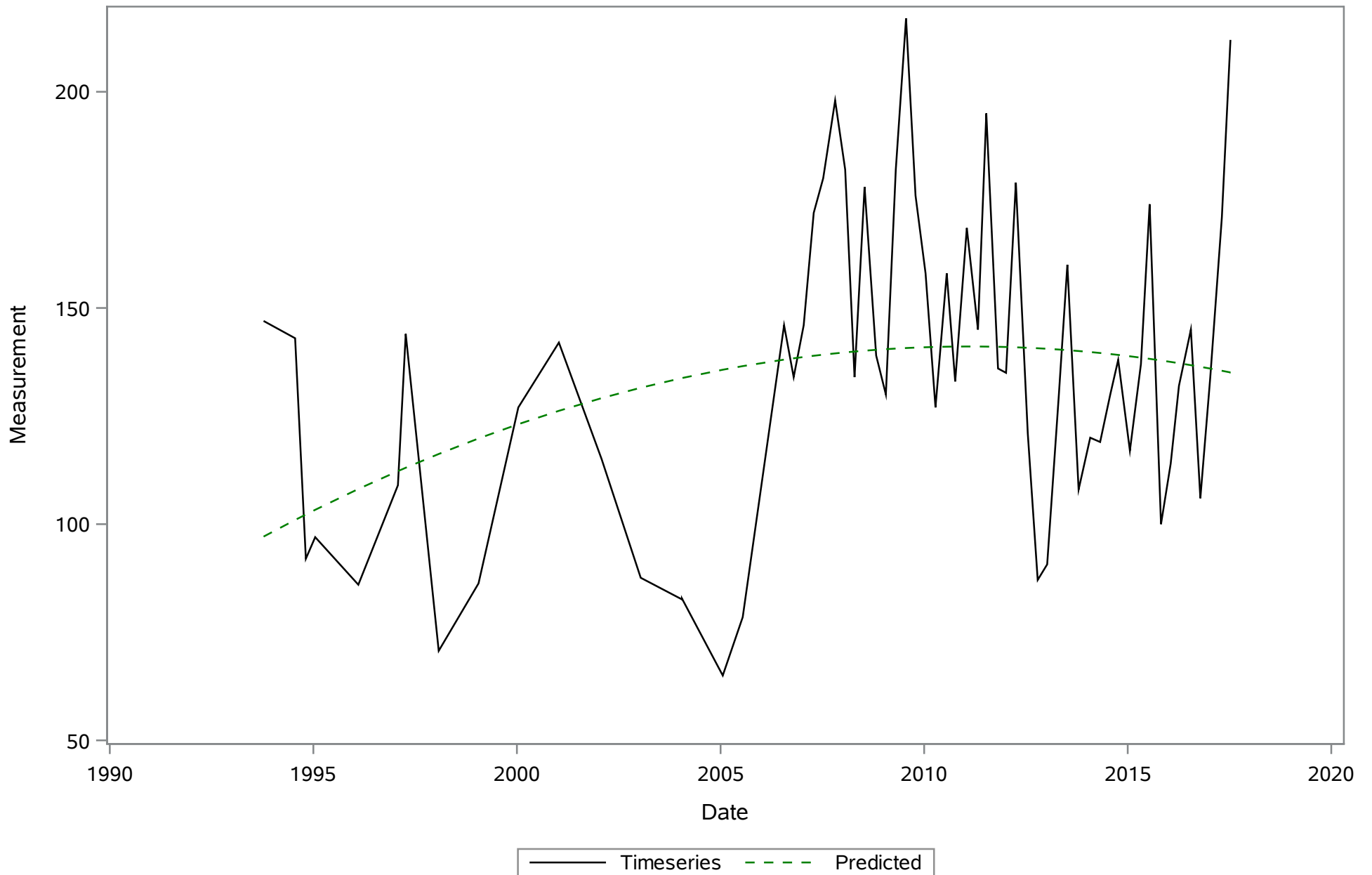
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Fluoride (Dissolved) mg/L



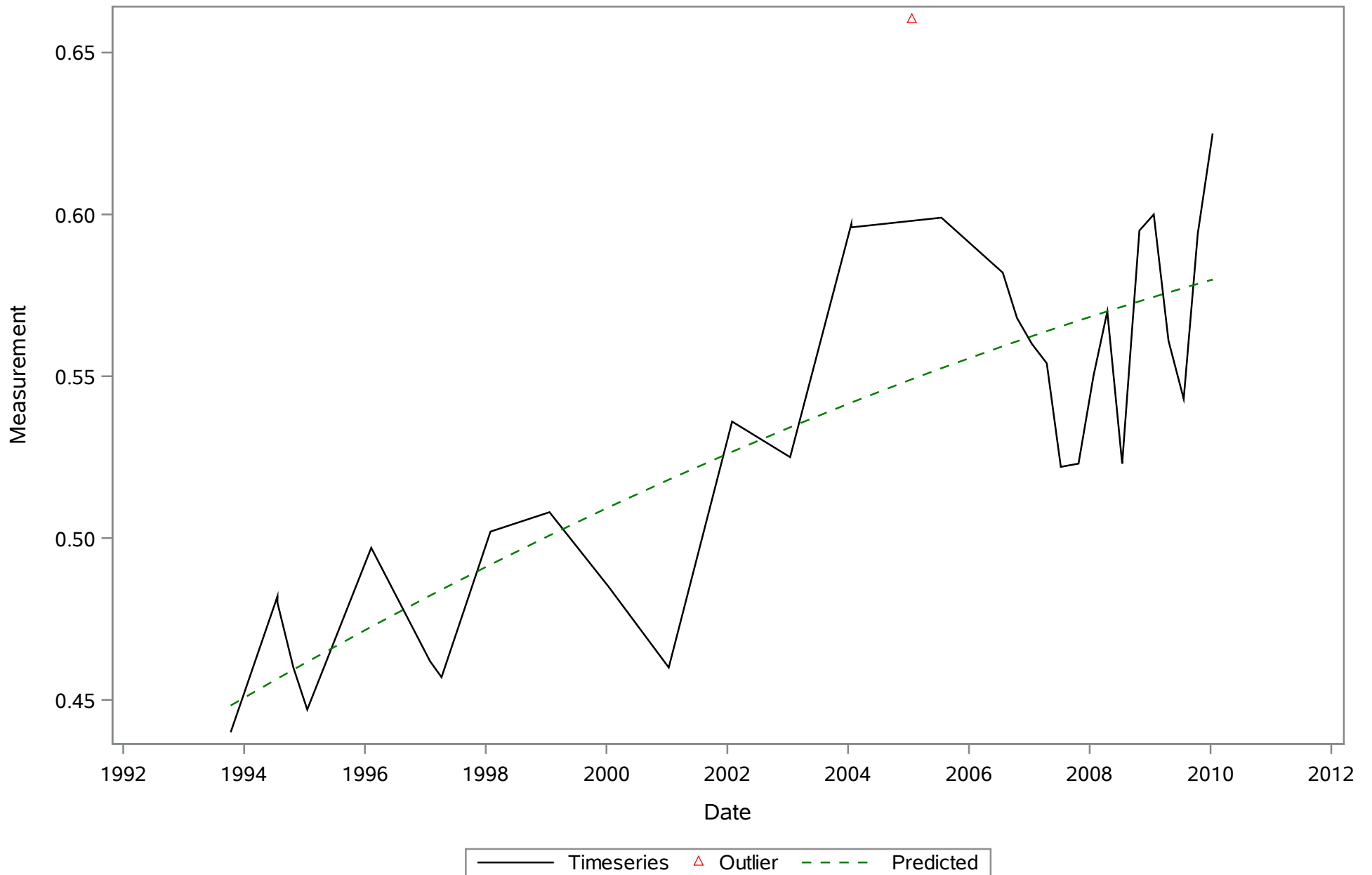
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Iron (Dissolved) ug/L



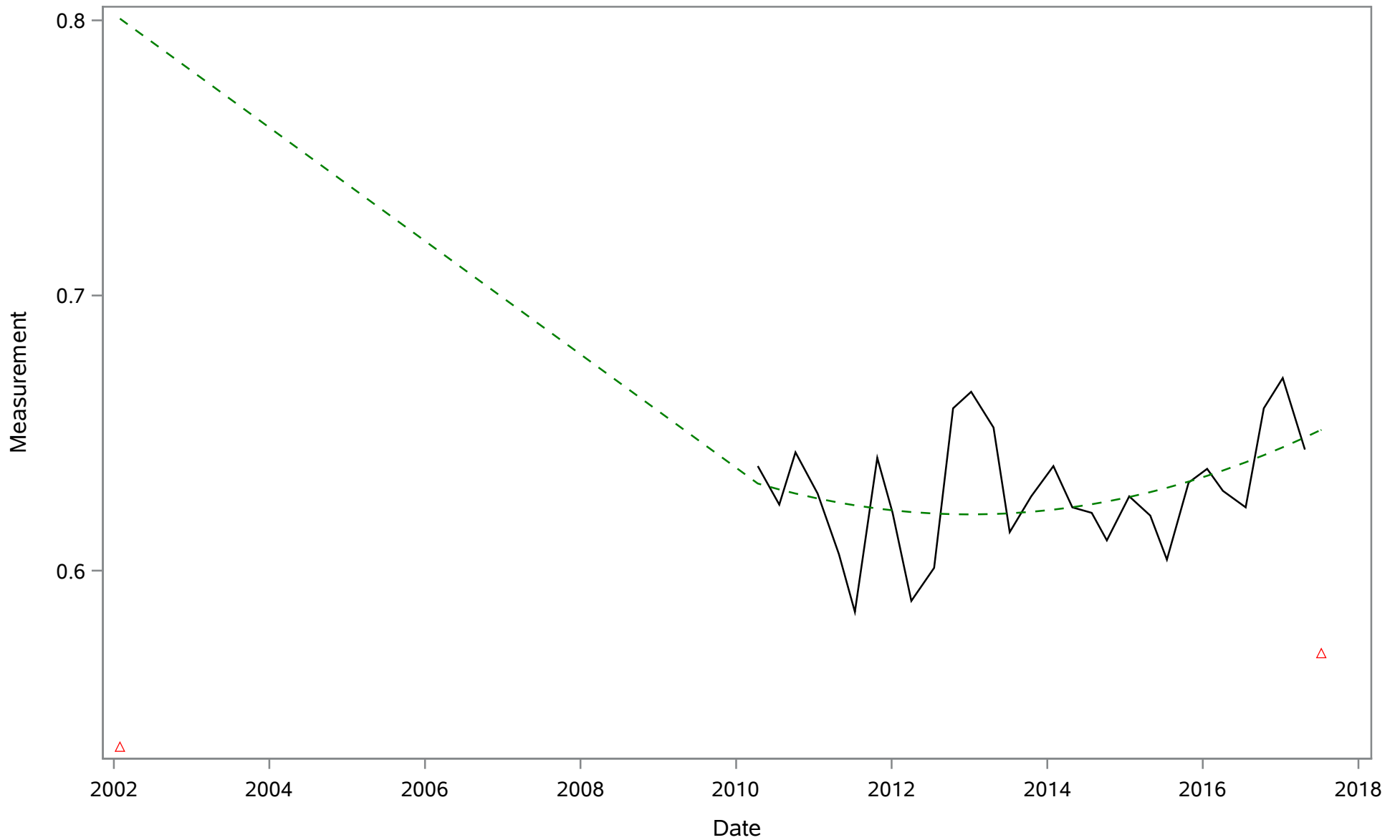
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Magnesium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

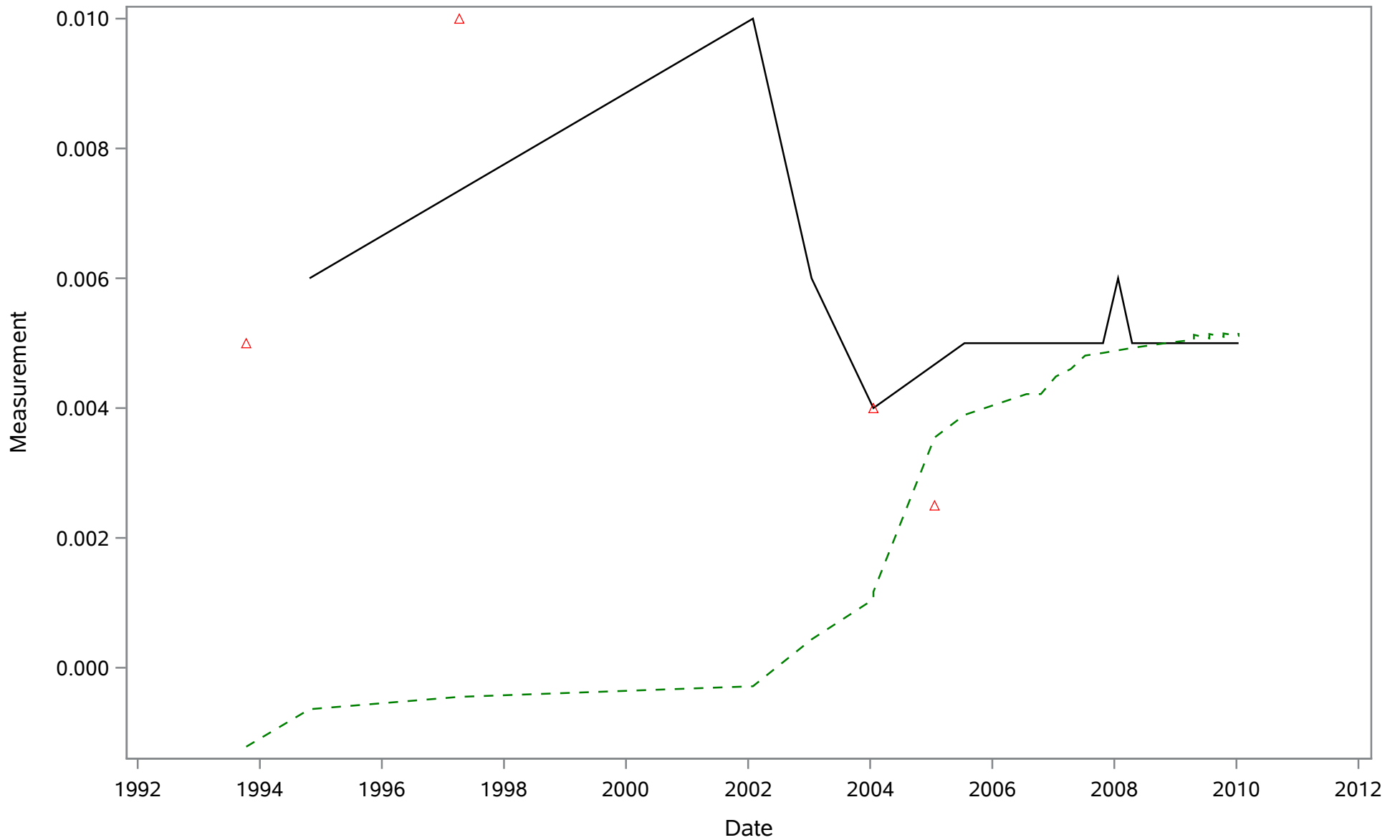


Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Total) mg/L



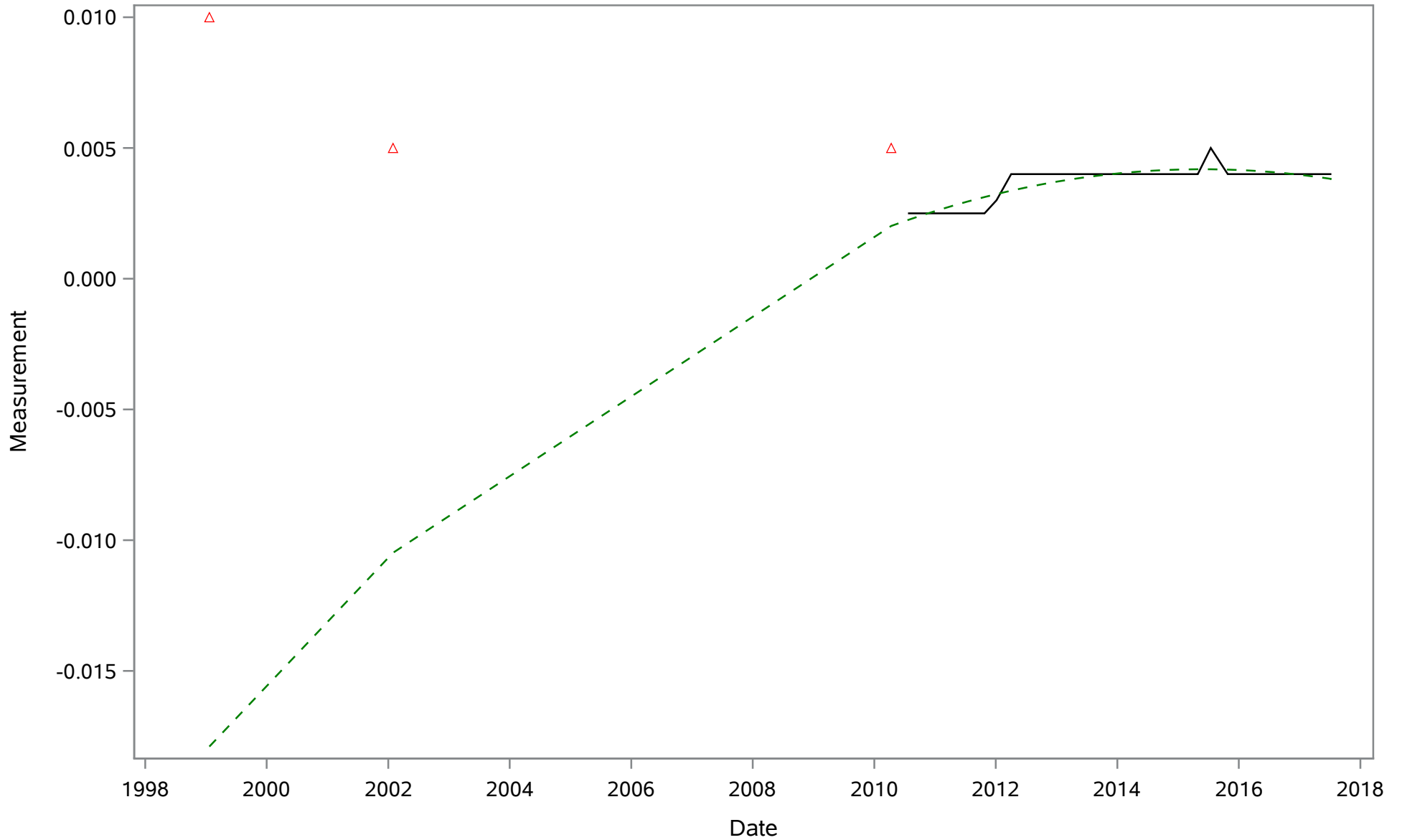
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrite (N) (Dissolved) mg/L



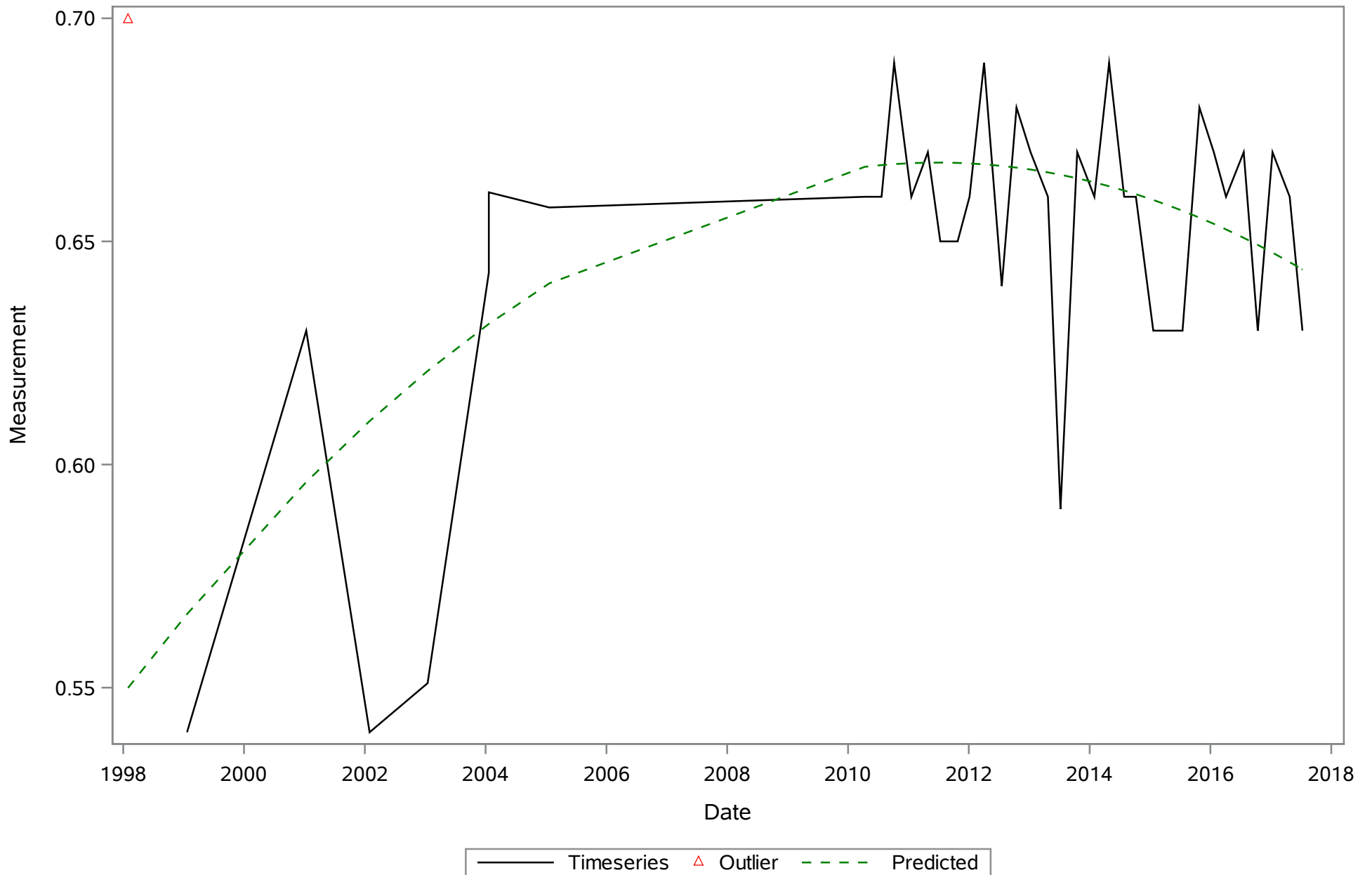
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrite (N) (Total) mg/L

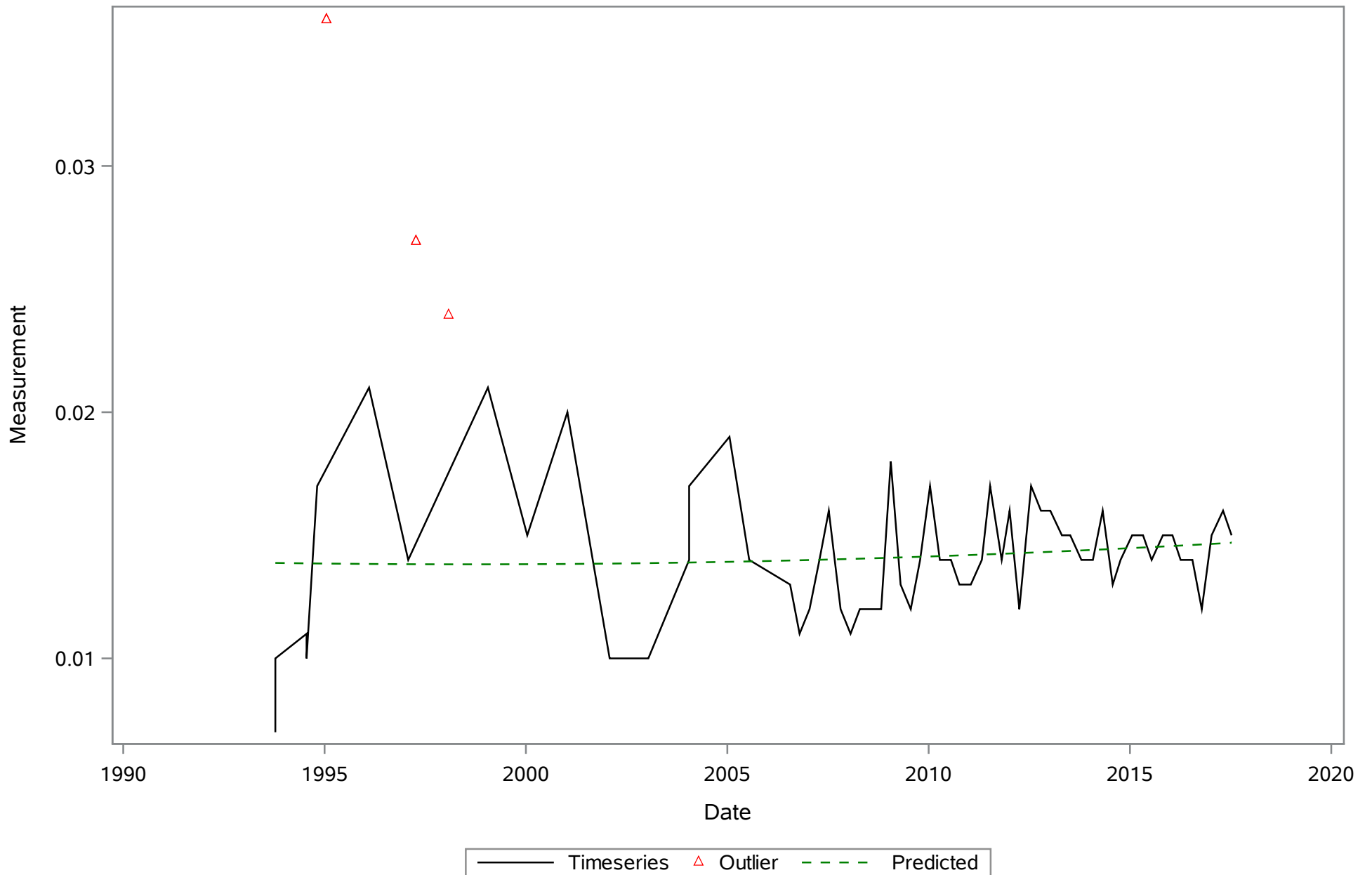


— Timeseries △ Outlier - - - Predicted

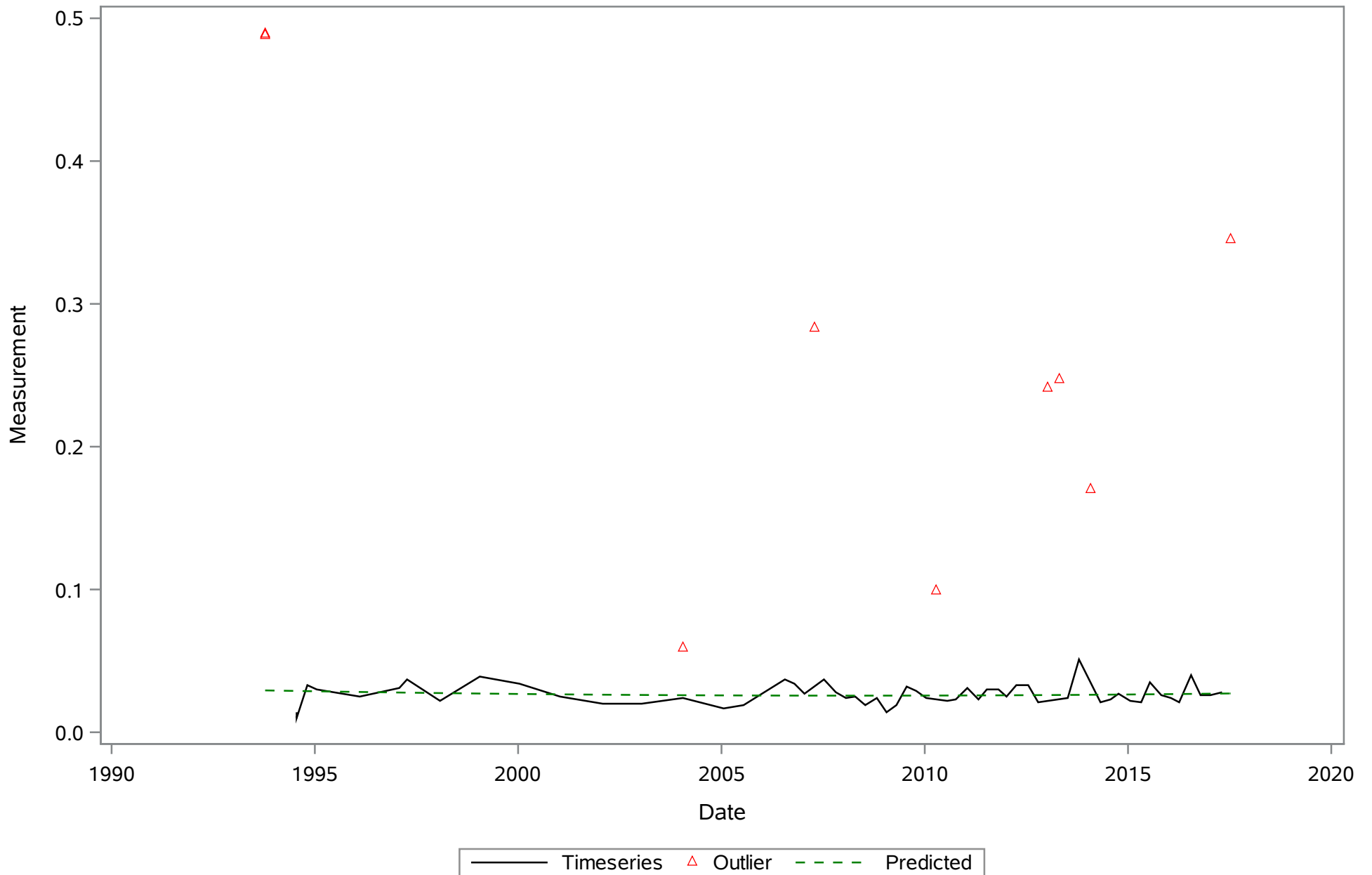
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrogen- Total (Total) mg/L



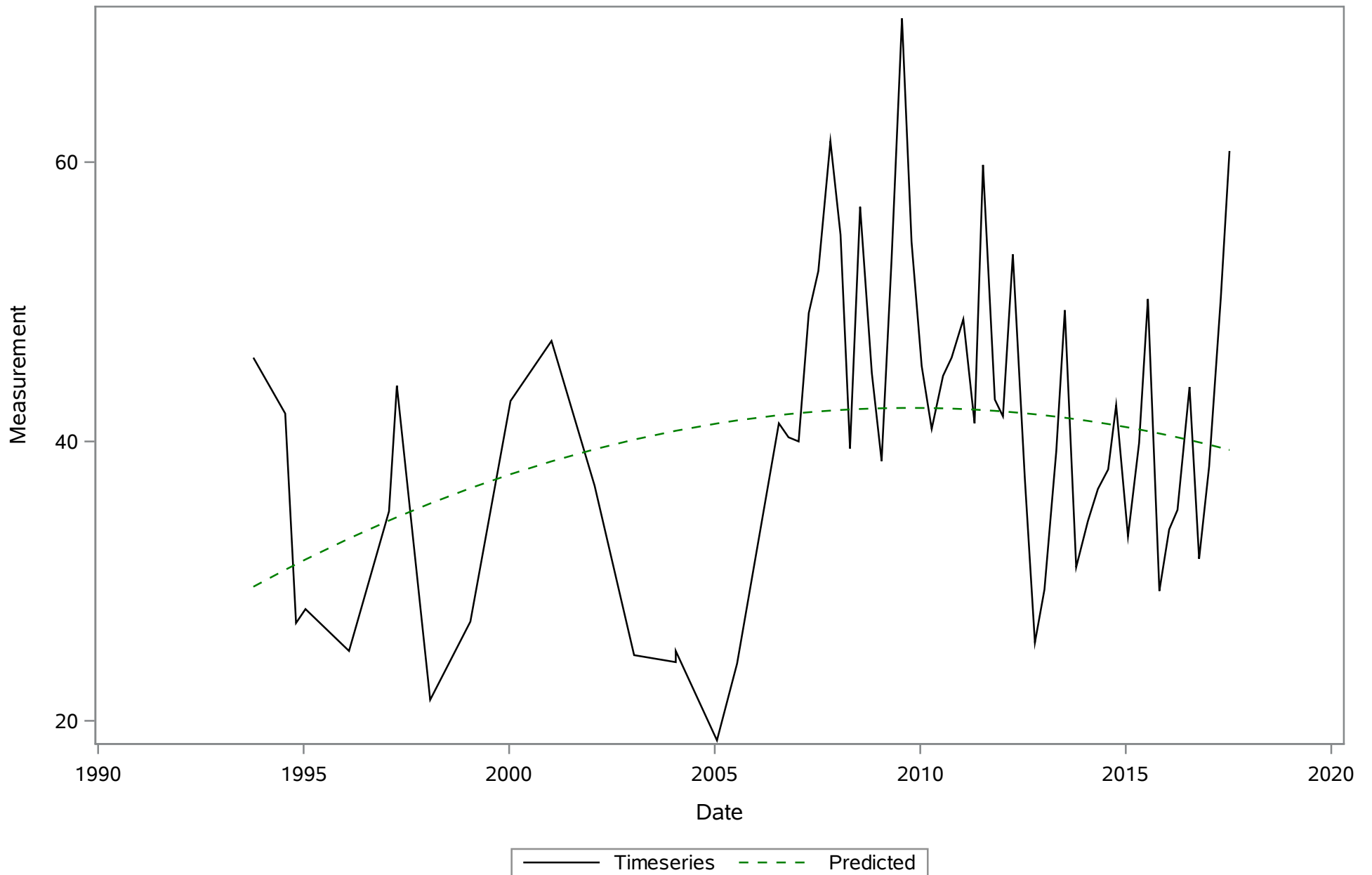
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Orthophosphate (P) (Dissolved) mg/L



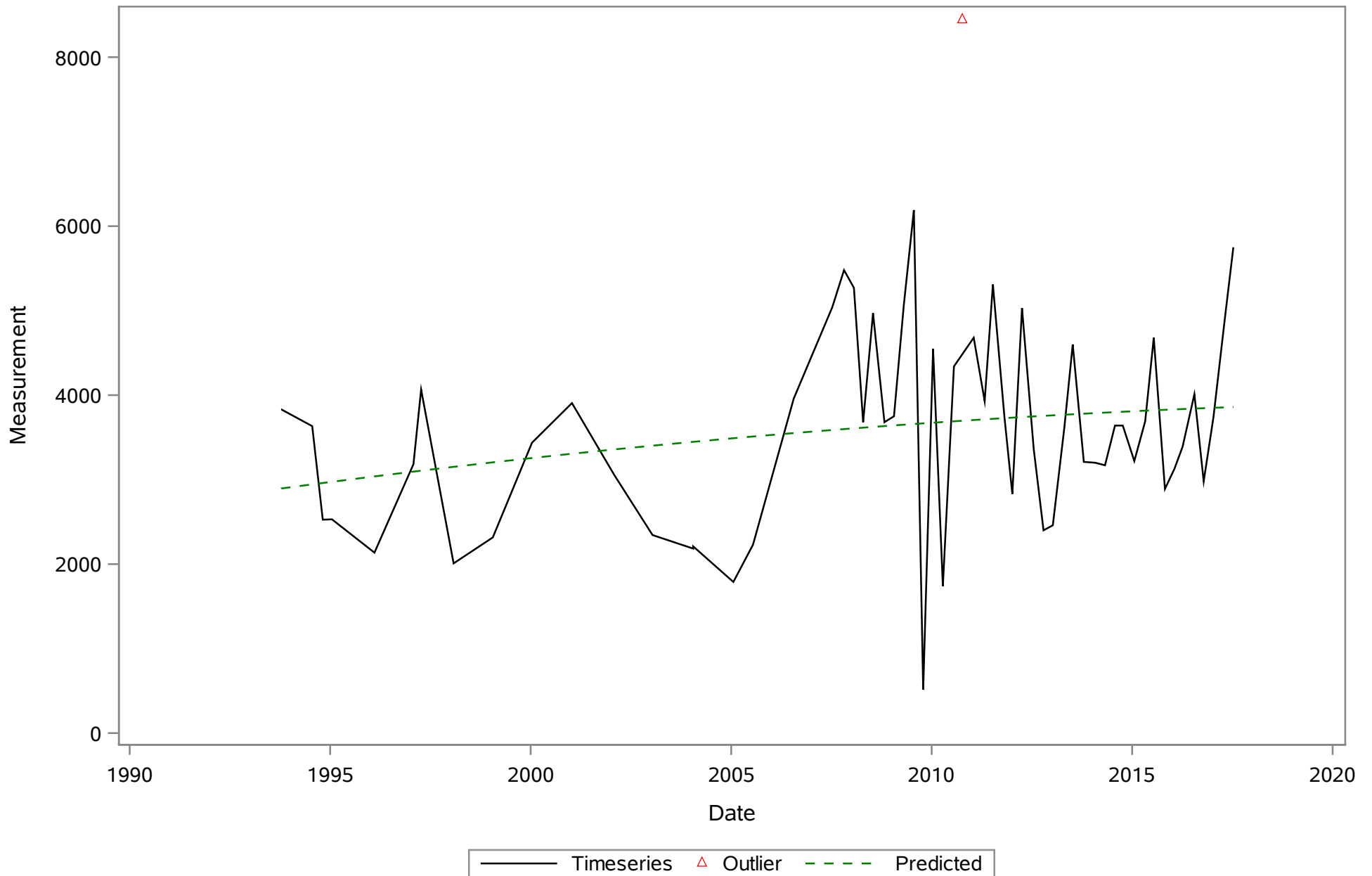
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Phosphorus- Total (Total) mg/L



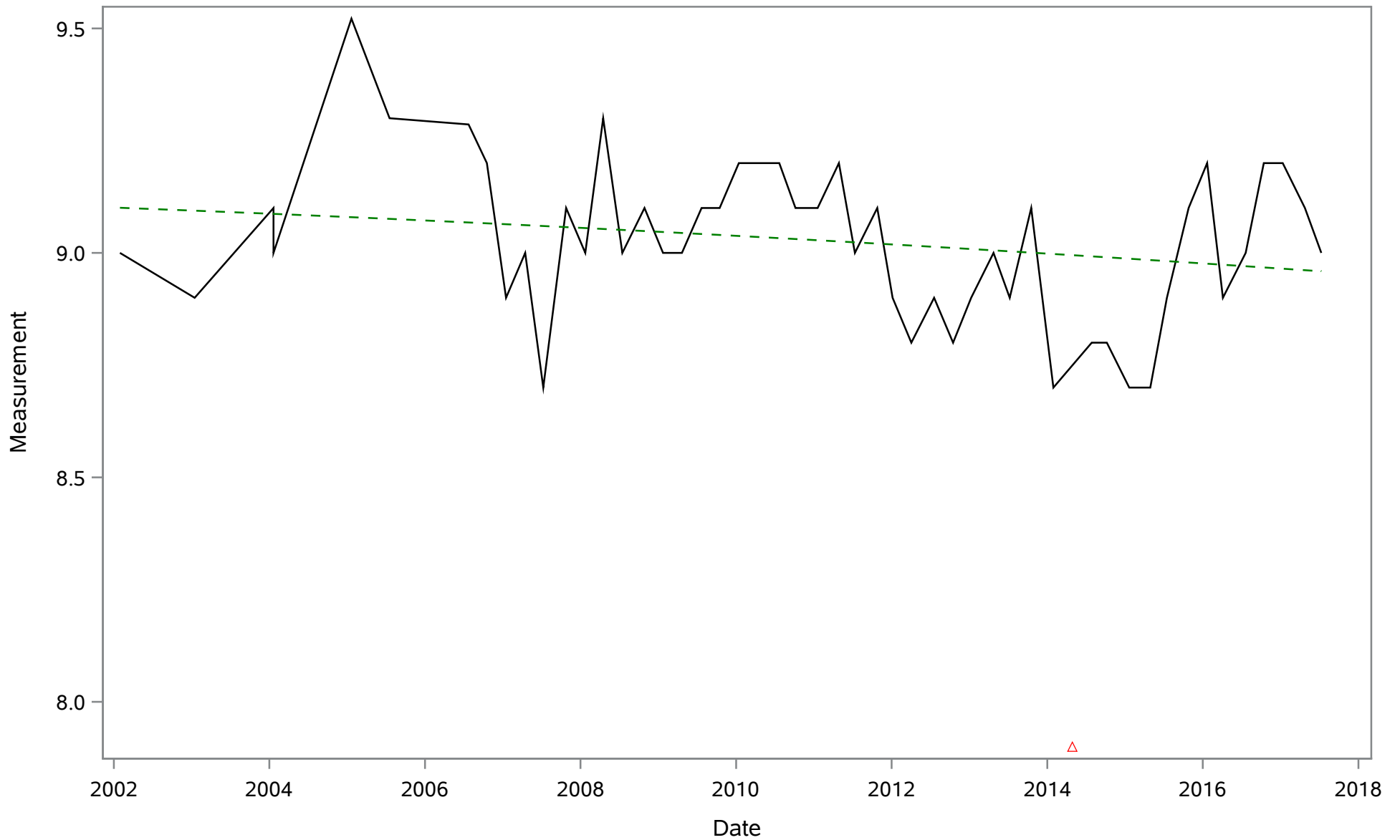
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Potassium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Residues- Filterable (TDS) (Dissolved) mg/L

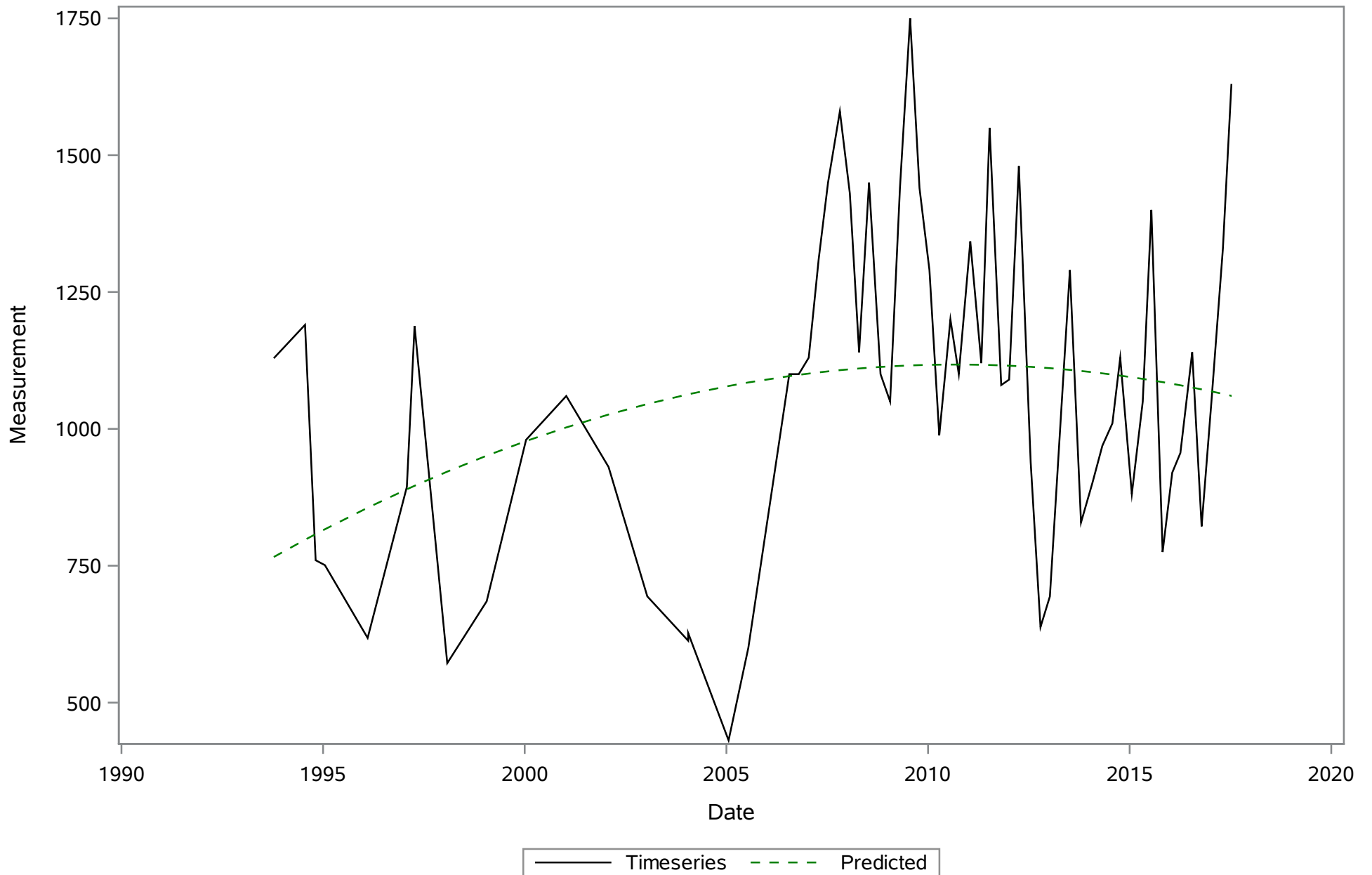


Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Silica- Dissolved (Dissolved) mg/L

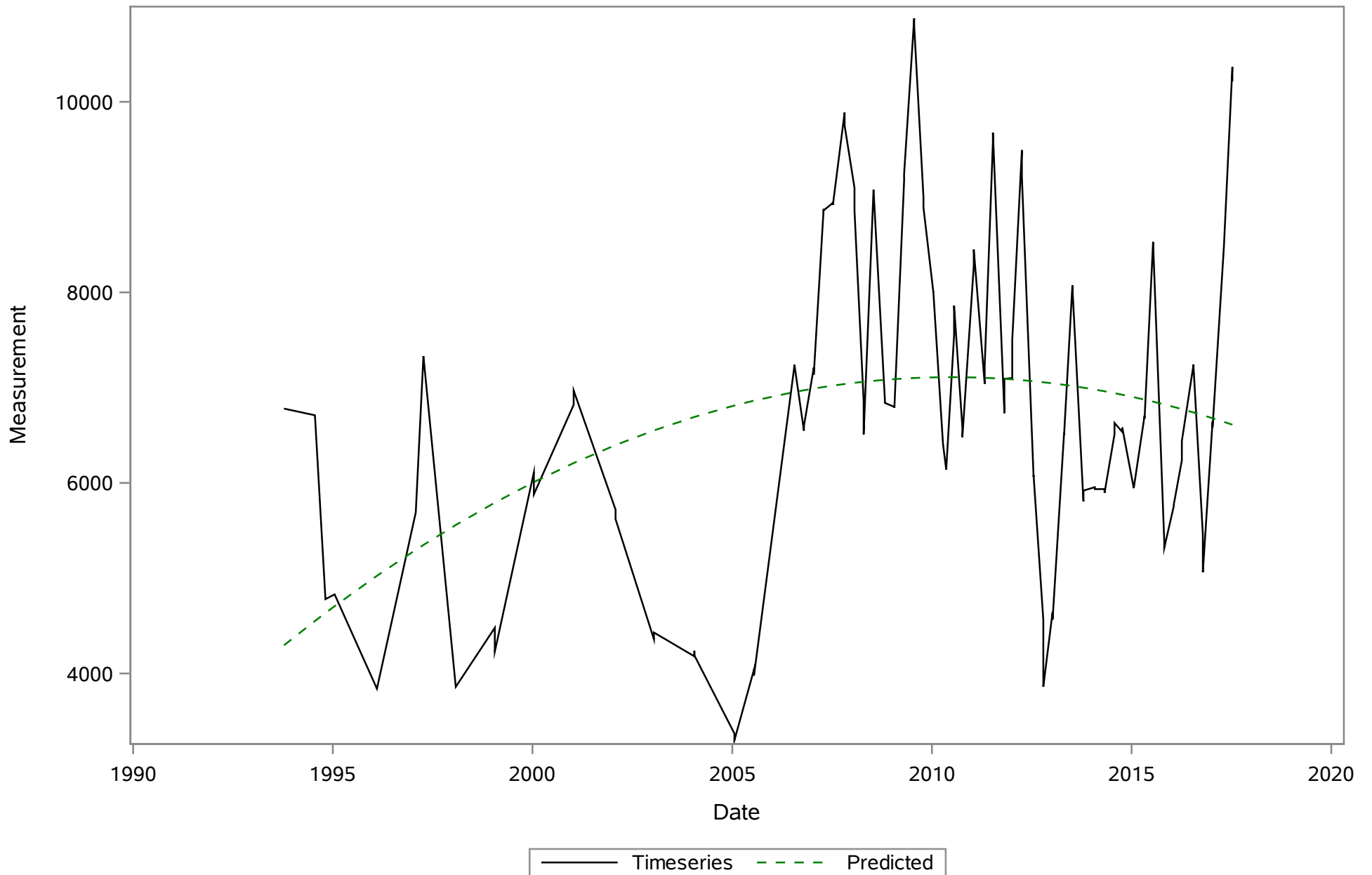


— Timeseries ▲ Outlier - - - Predicted

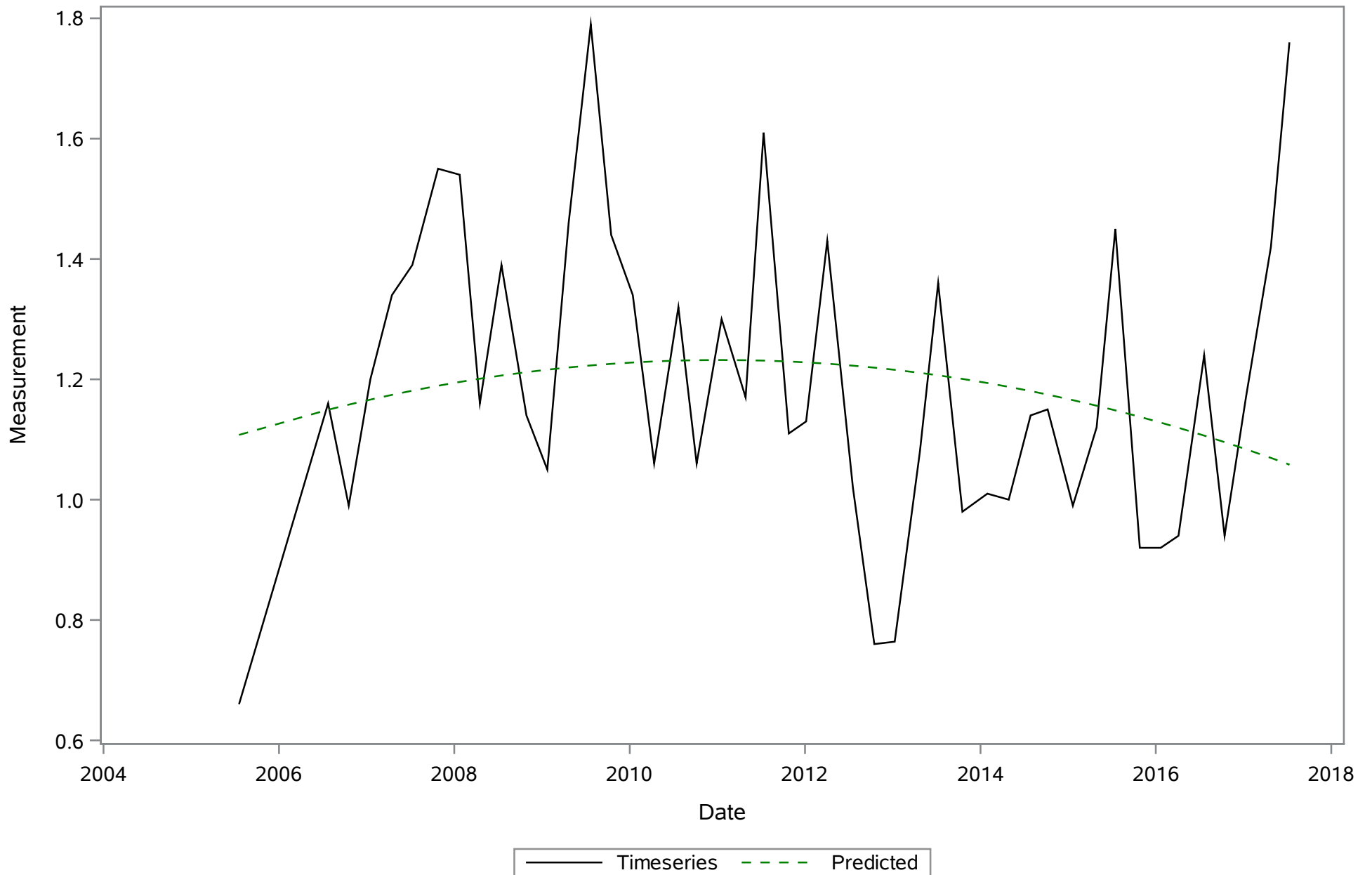
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sodium (Dissolved) mg/L



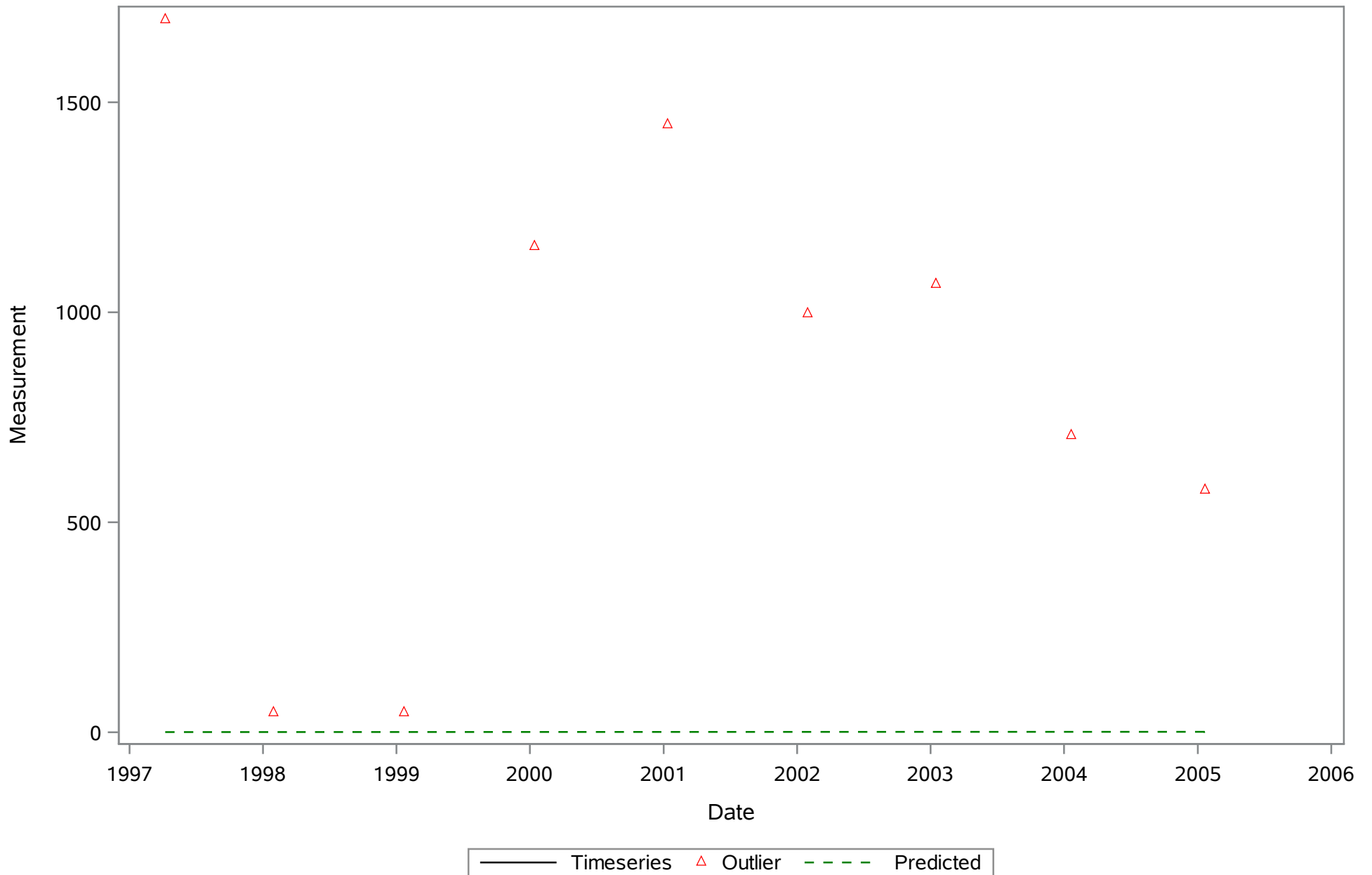
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Specific Conductance (Total) uS/cm



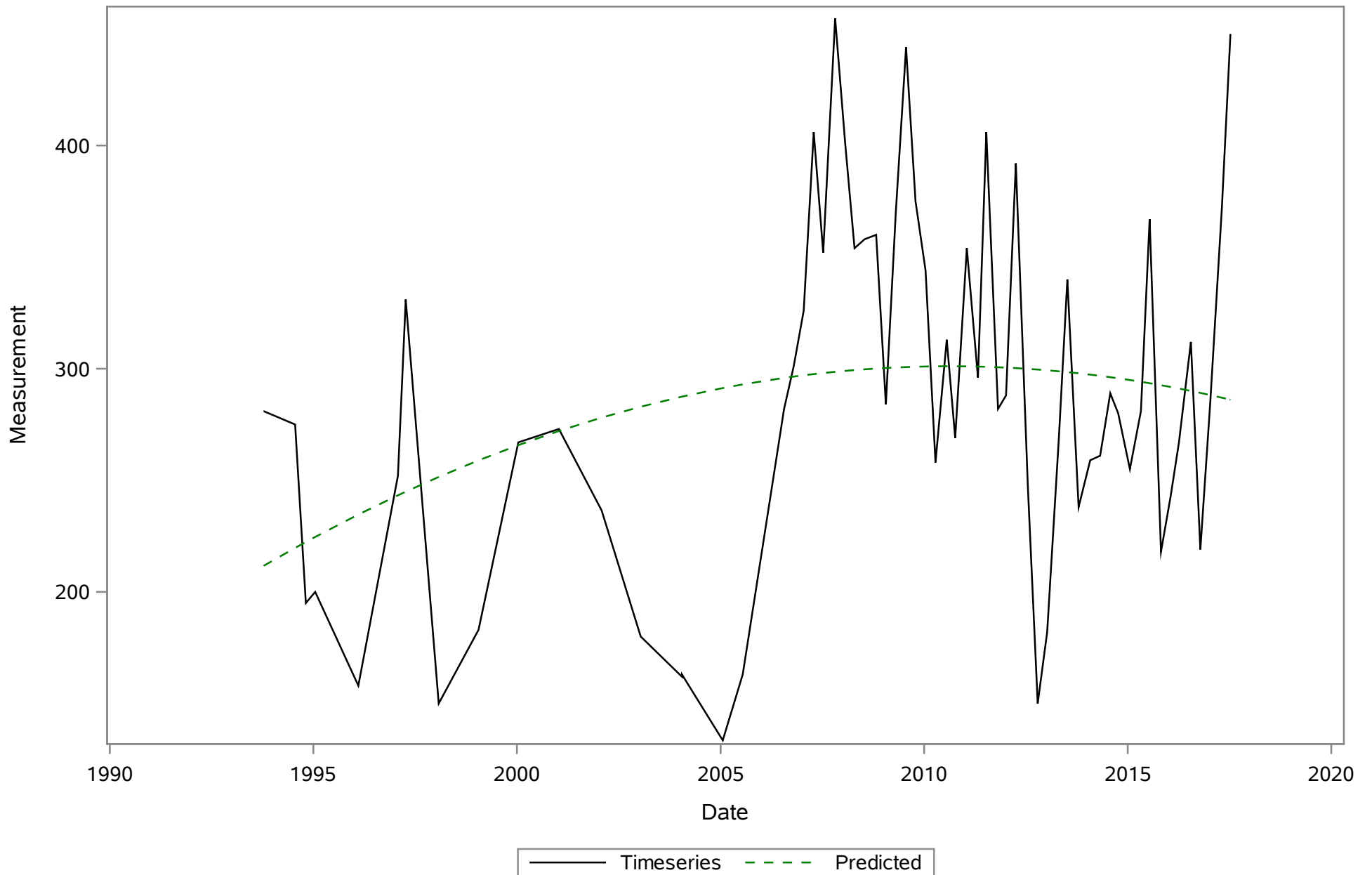
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) ug/L



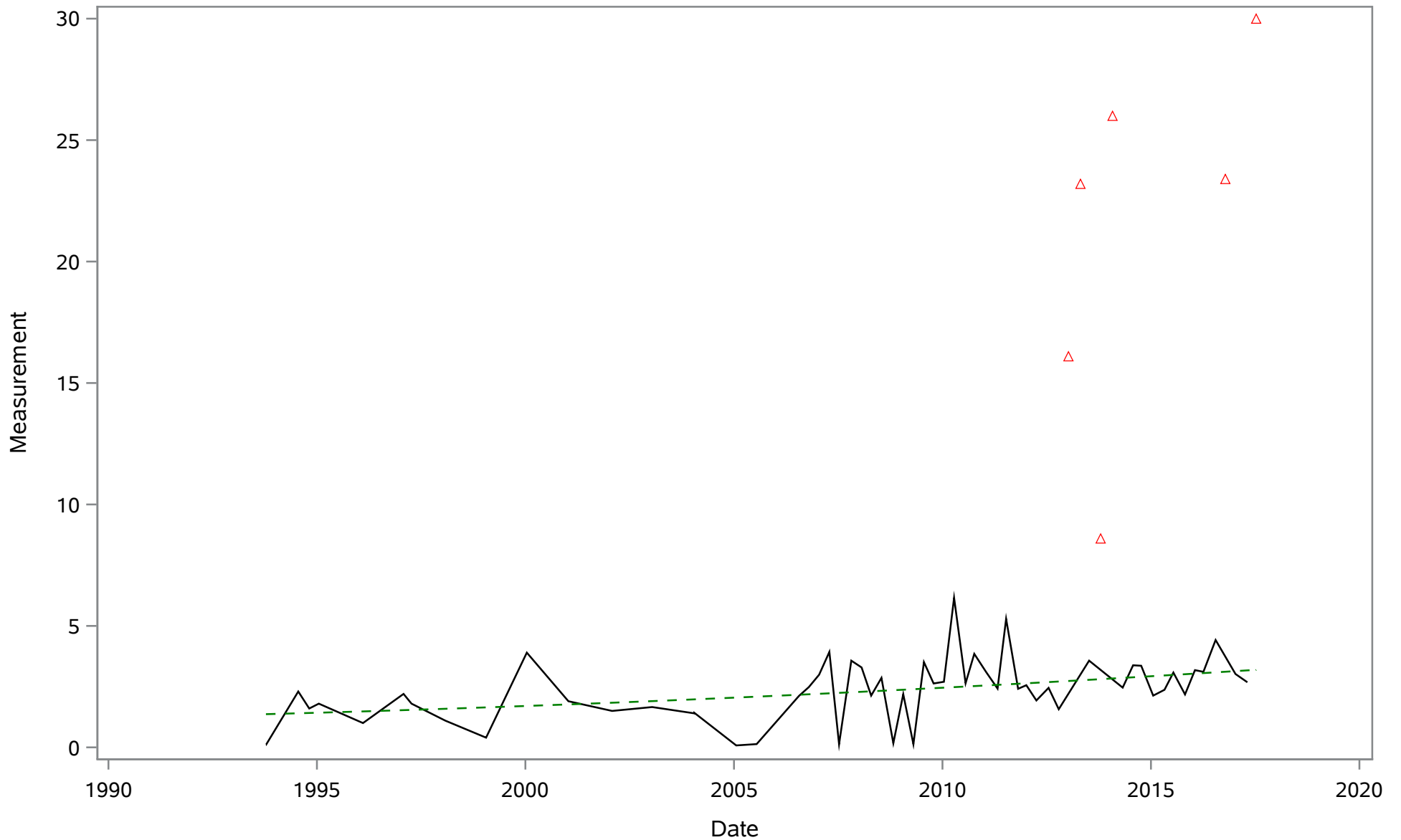
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sulfate (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Temperature (Total) Deg. C

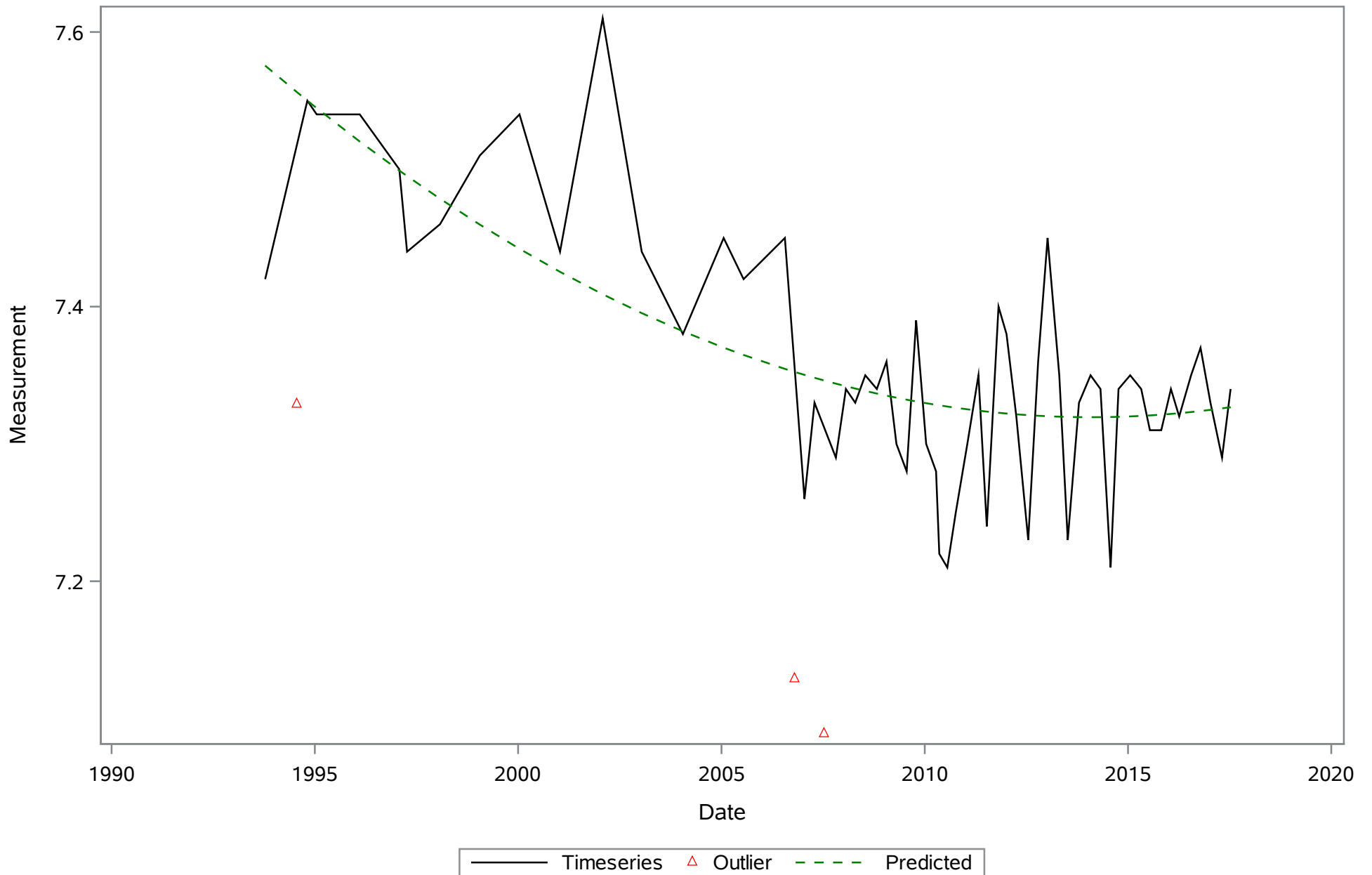


Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Turbidity (Total) NTU

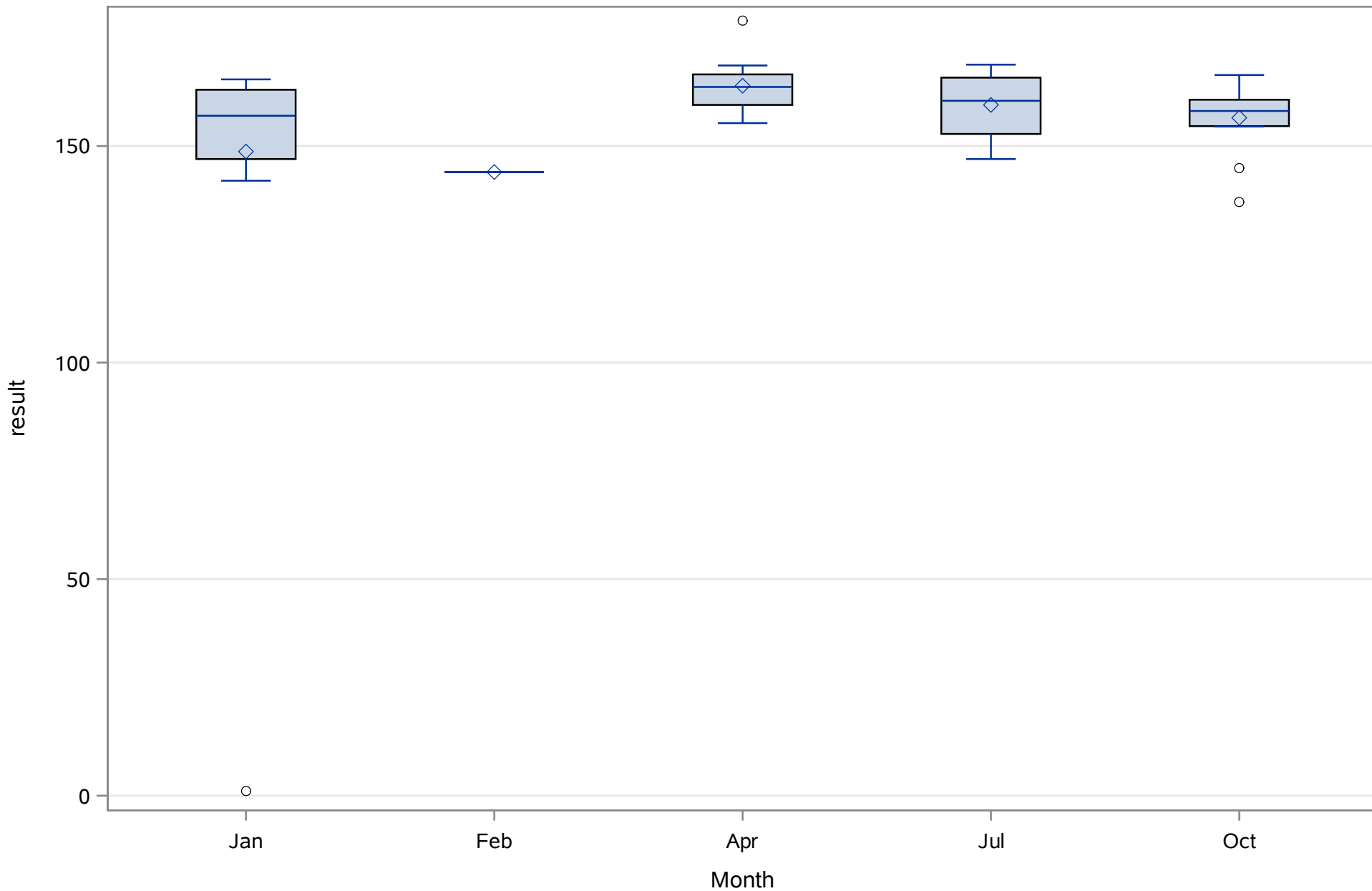


— Timeseries △ Outlier - - - Predicted

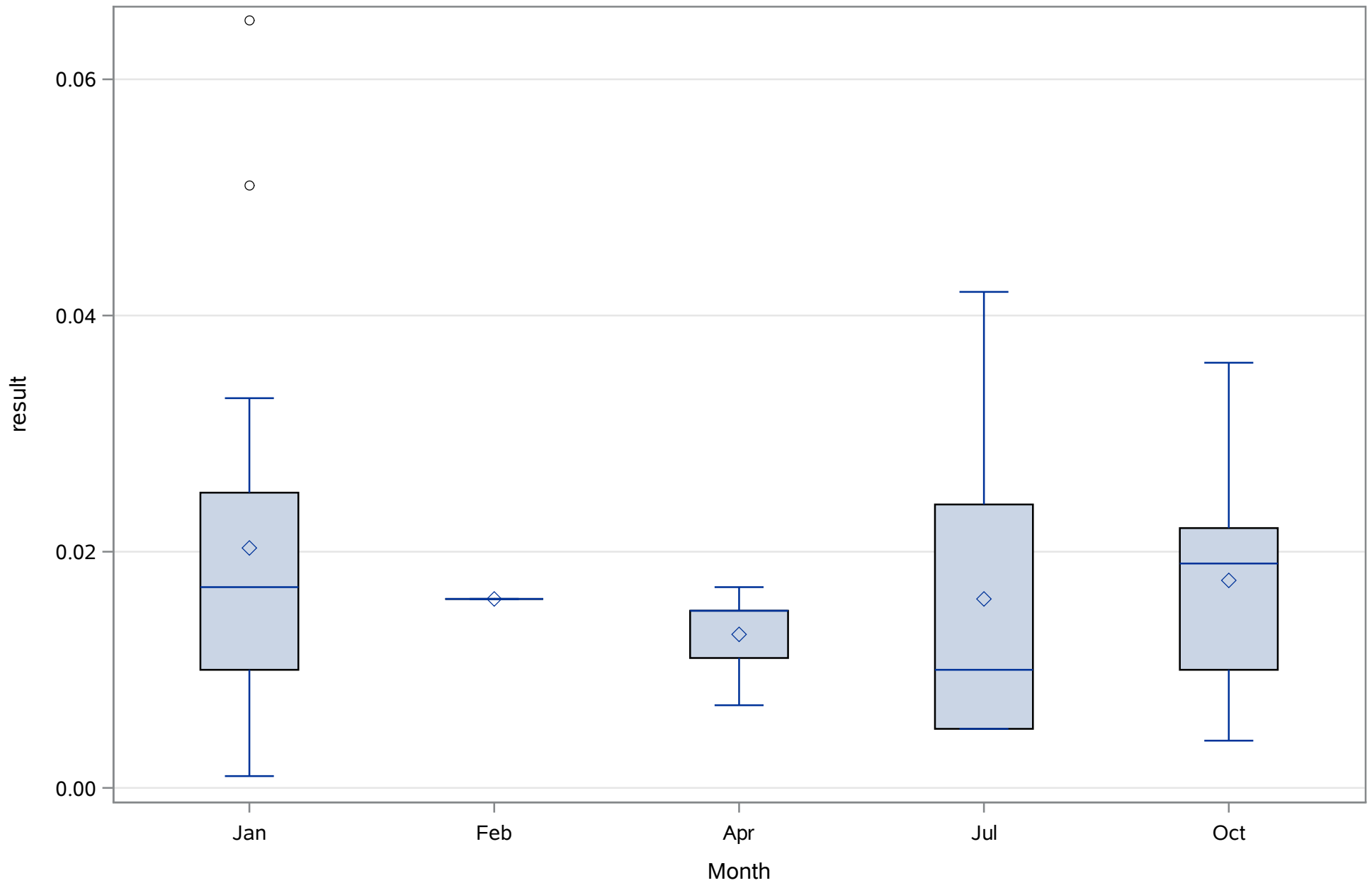
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
pH (Total) SU



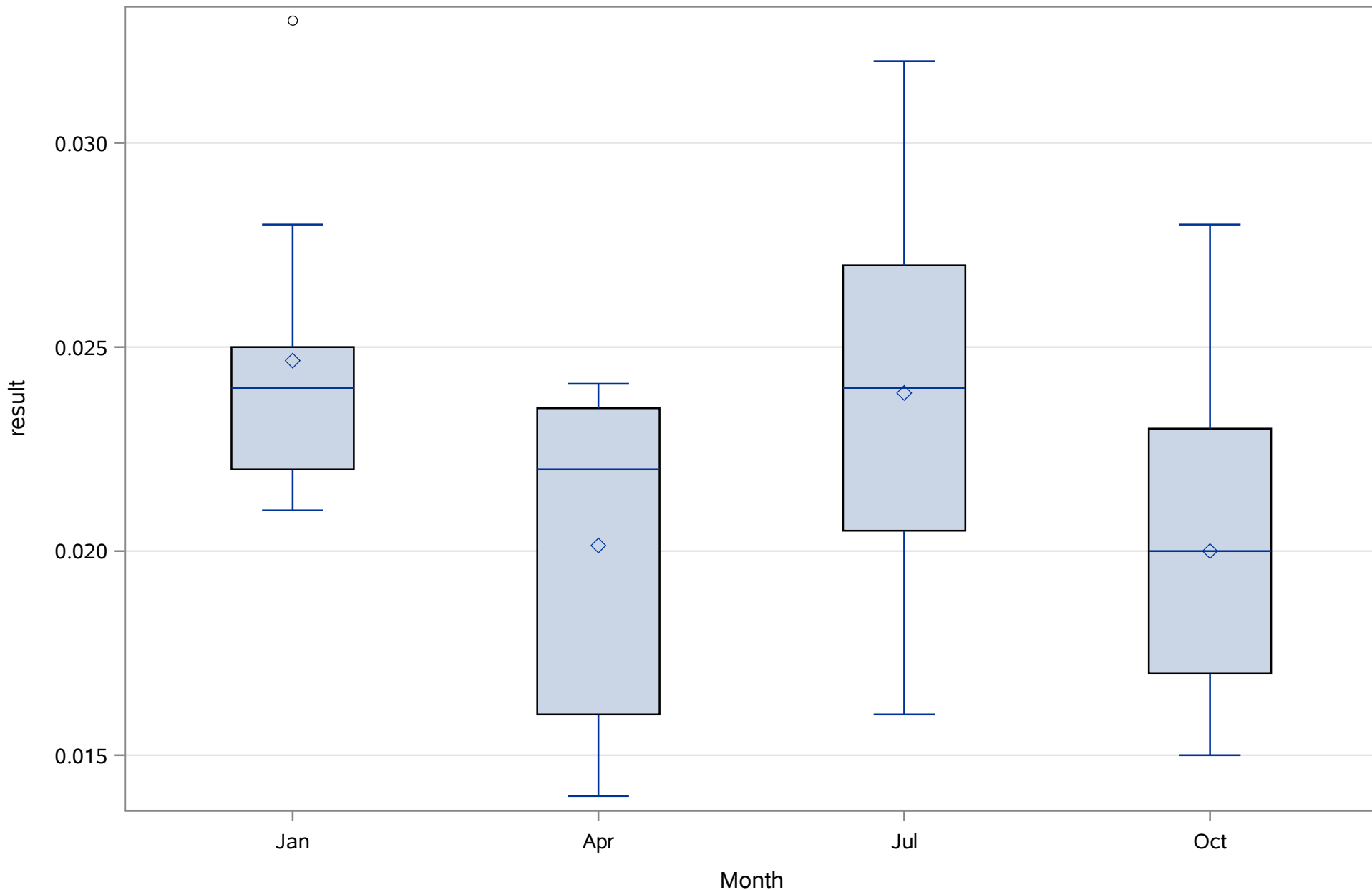
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Alkalinity (Total) mg/L



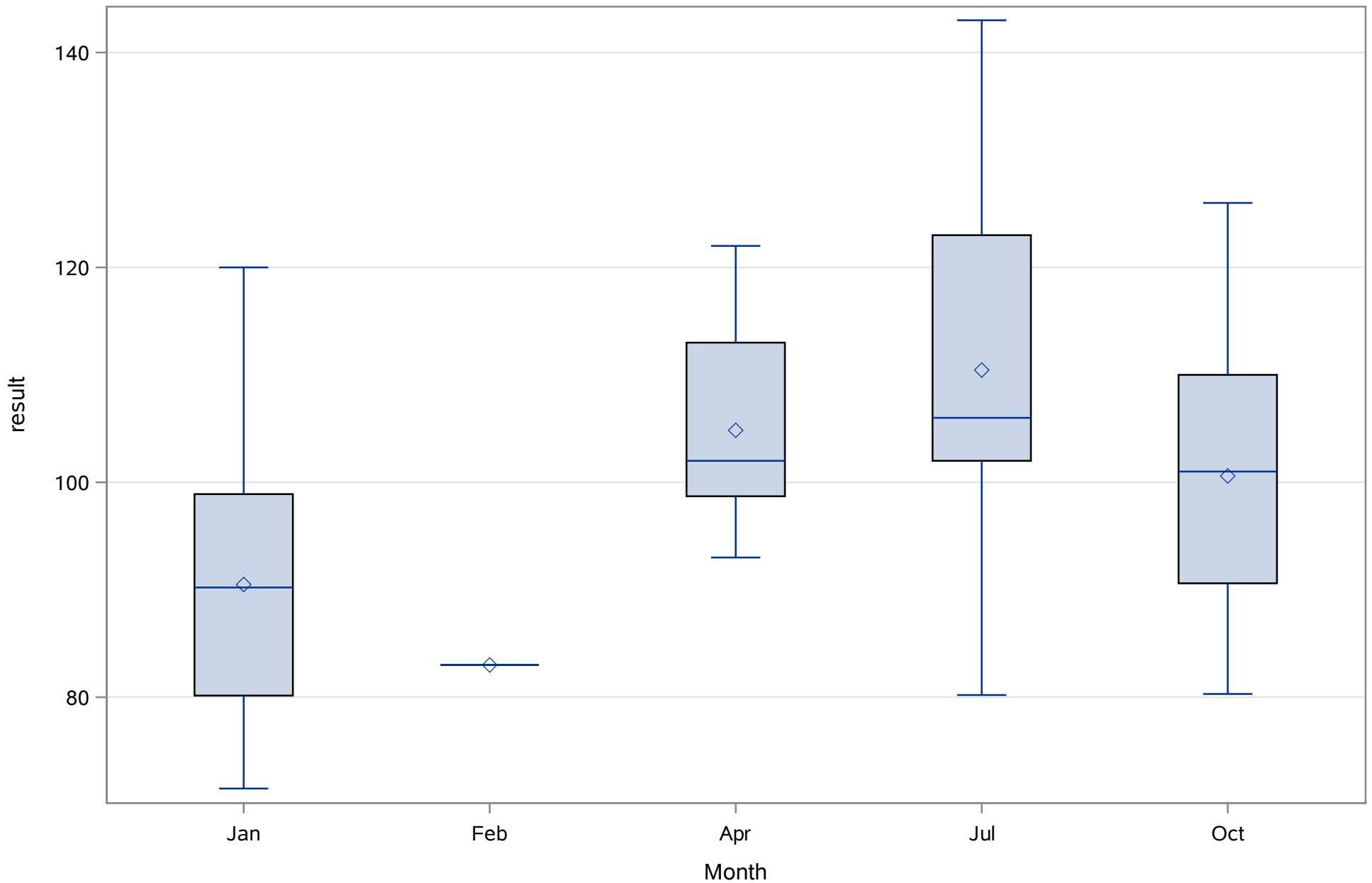
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Dissolved) mg/L



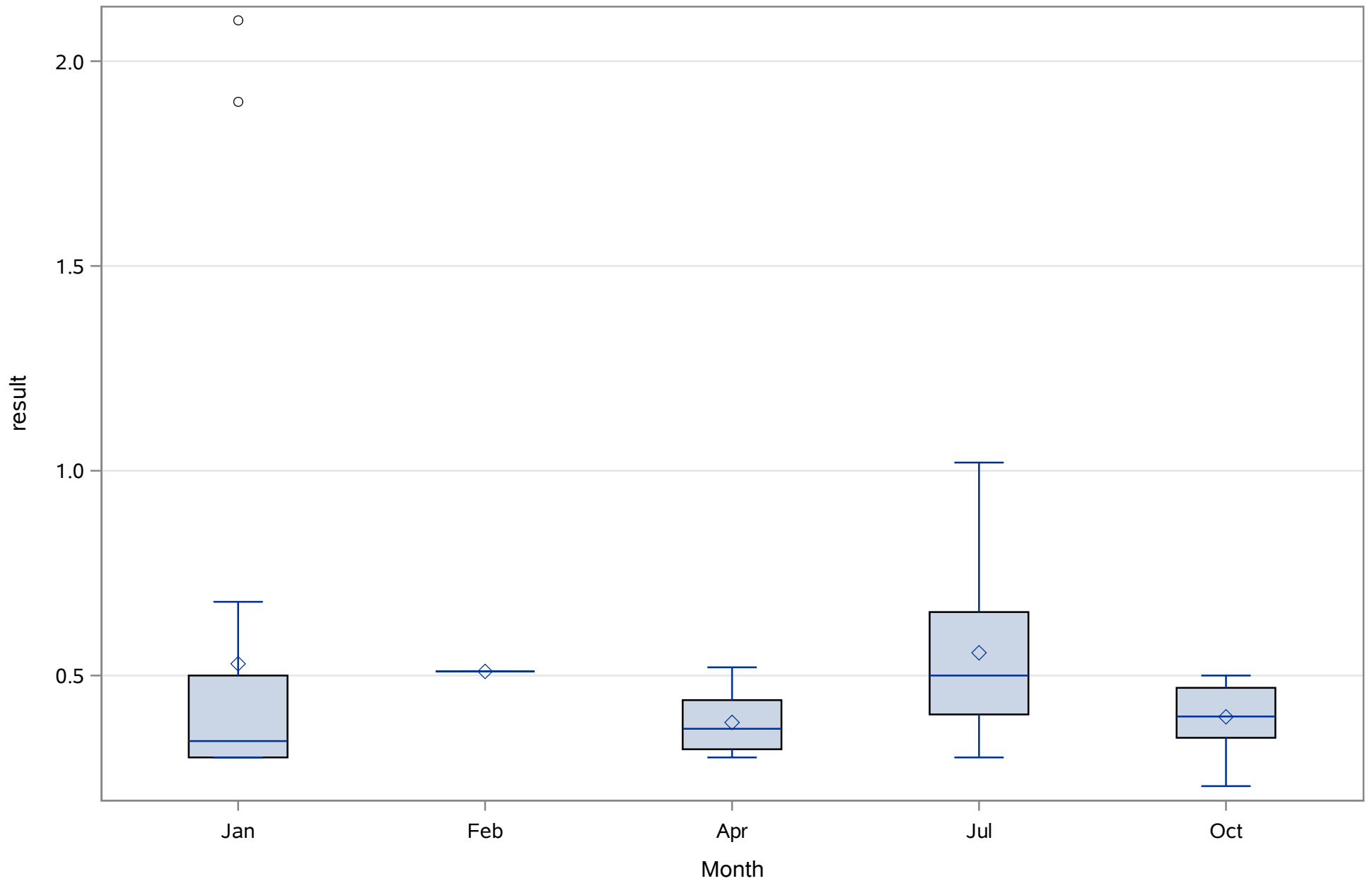
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Ammonia (N) (Total) mg/L



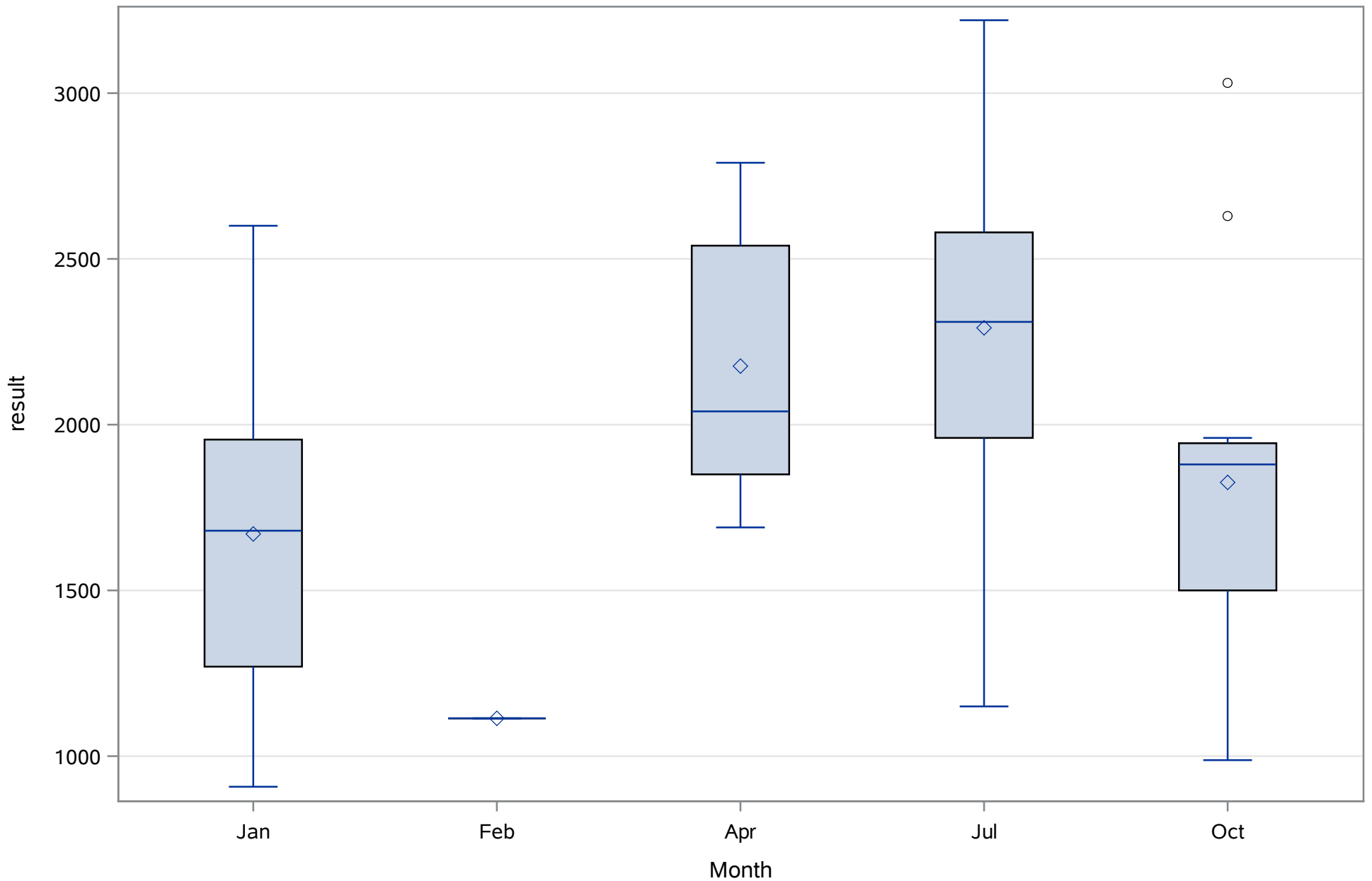
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Calcium (Dissolved) mg/L



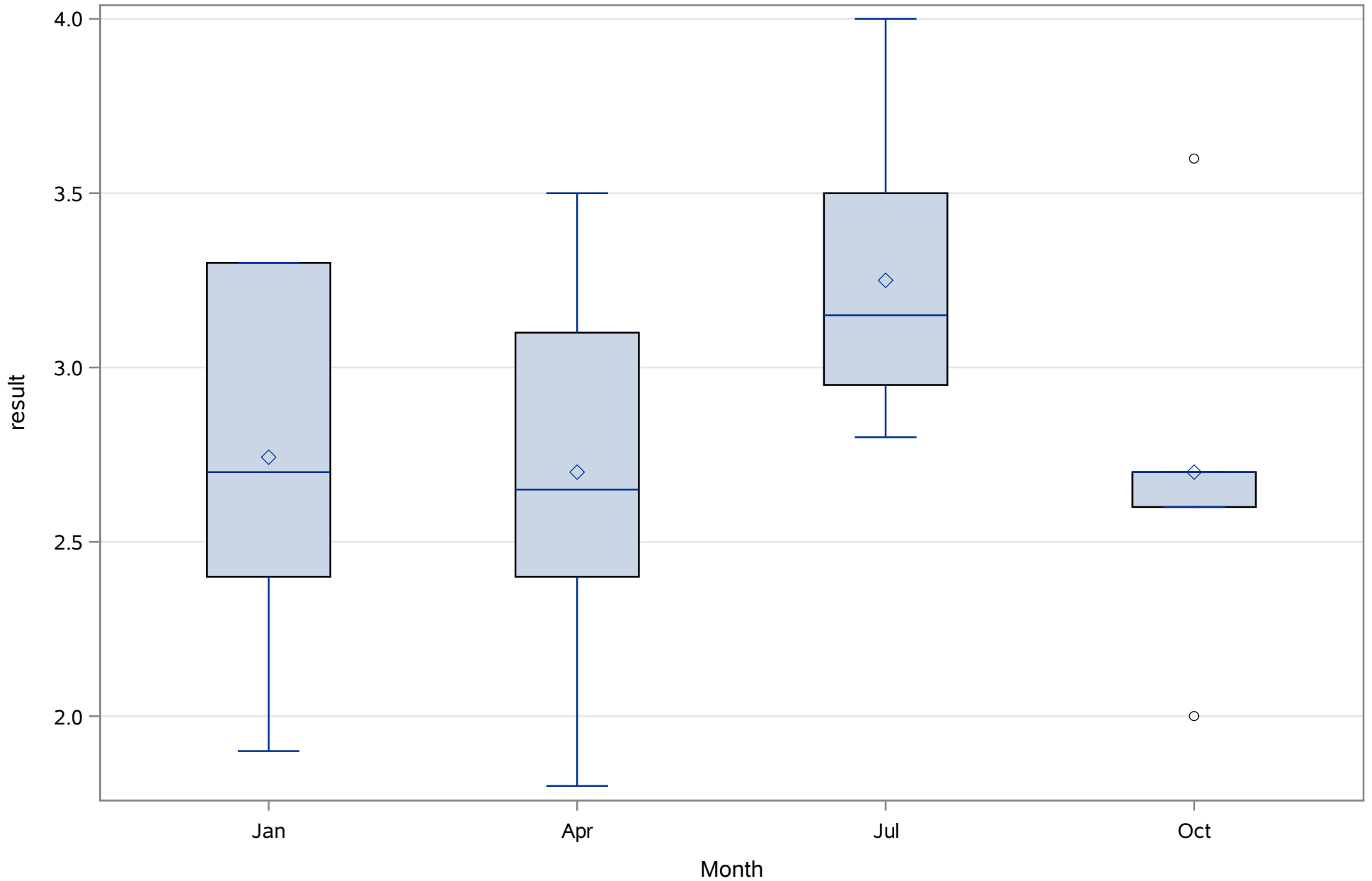
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Carbon- Total Organic (Total) mg/L



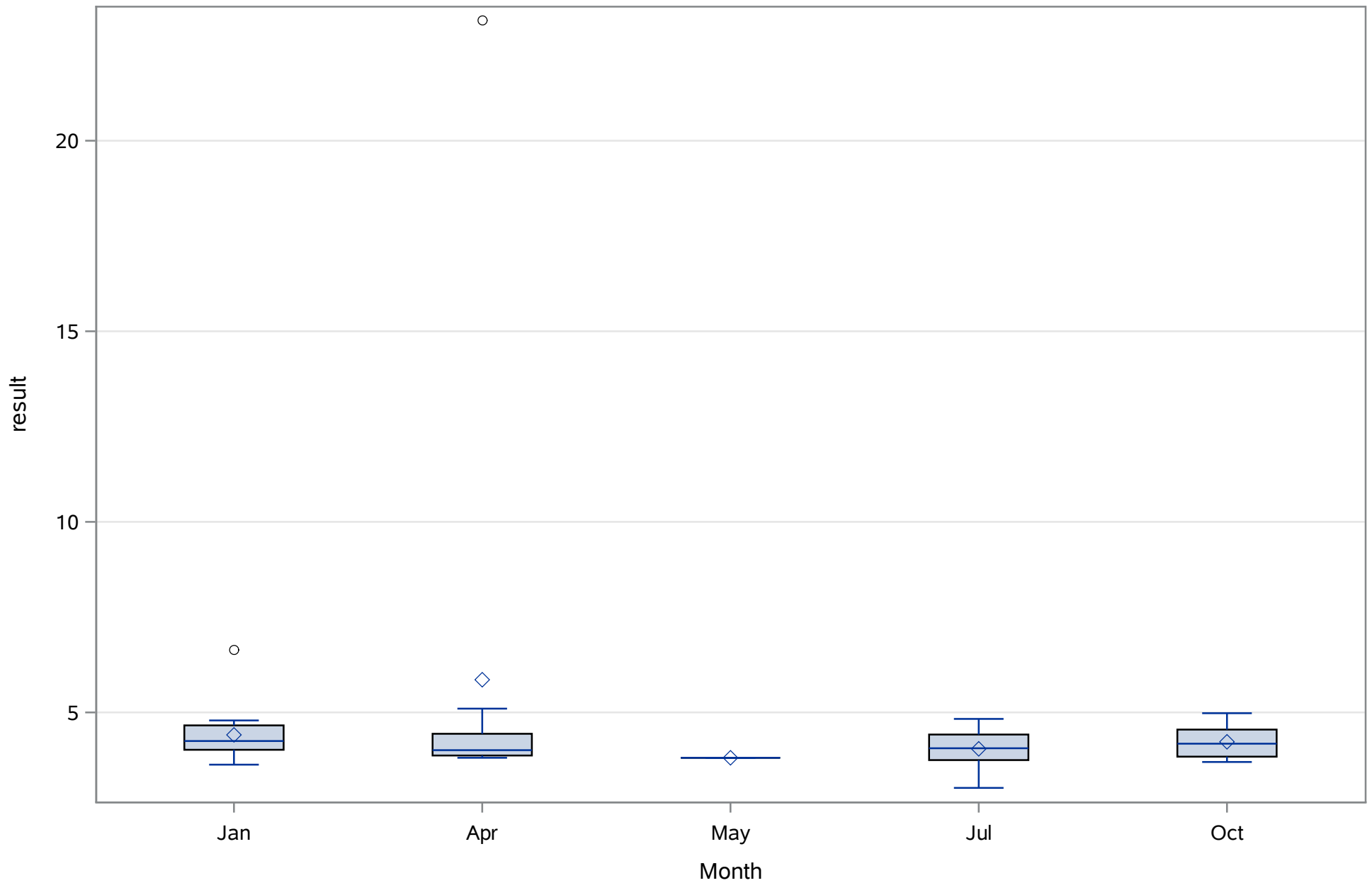
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Chloride (Dissolved) mg/L



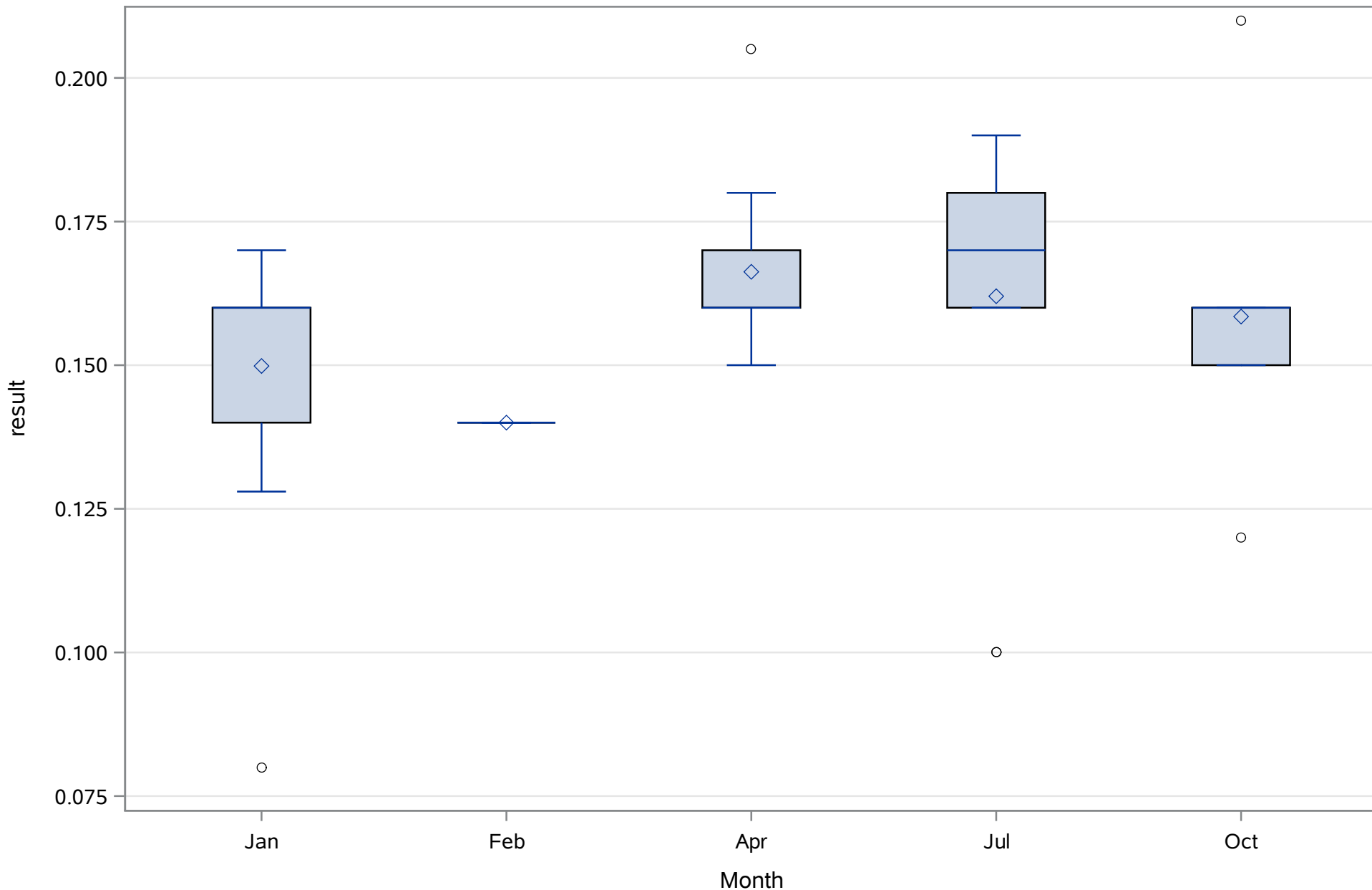
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Color (Dissolved) PCU



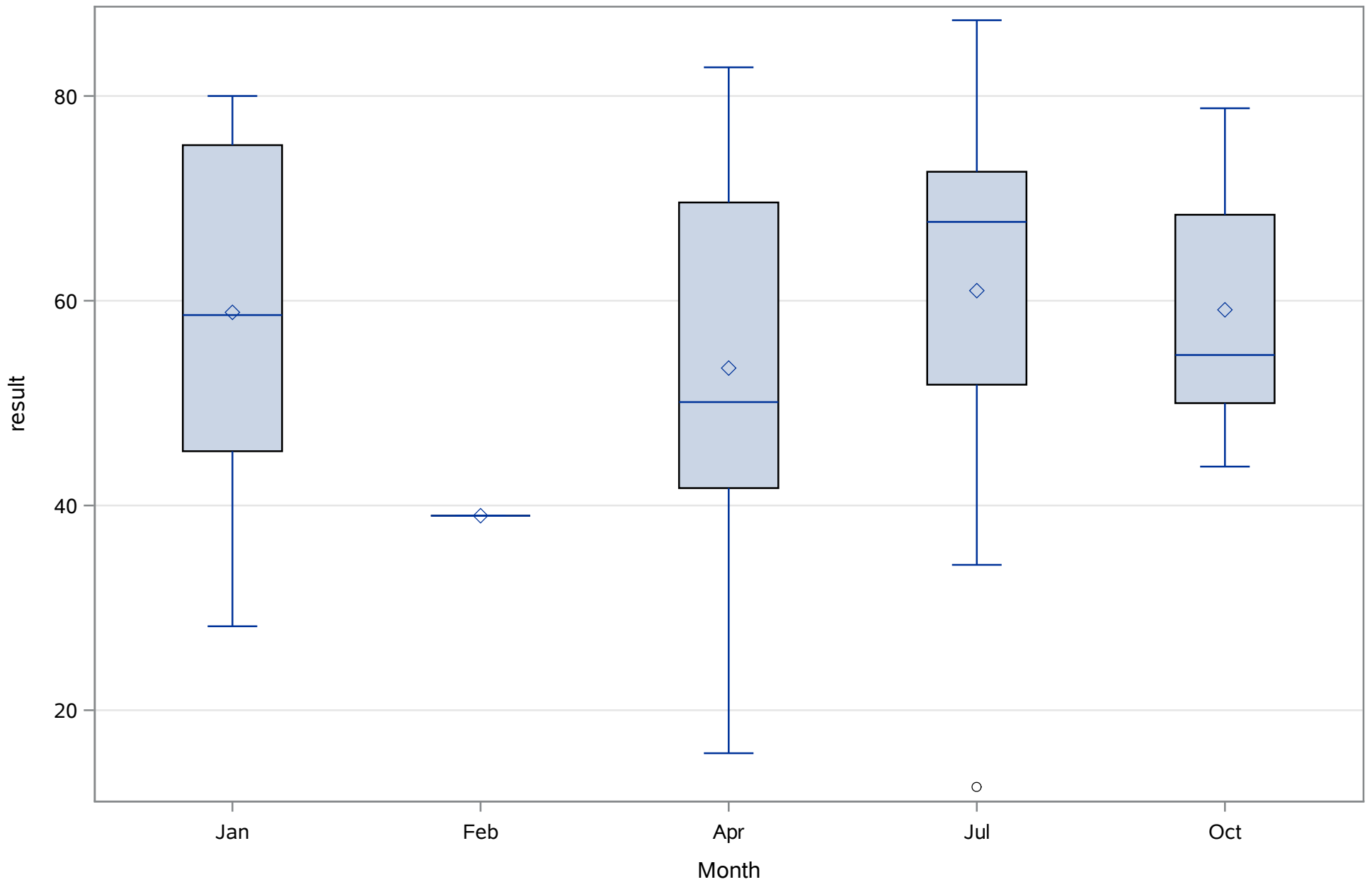
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Dissolved Oxygen (Total) mg/L



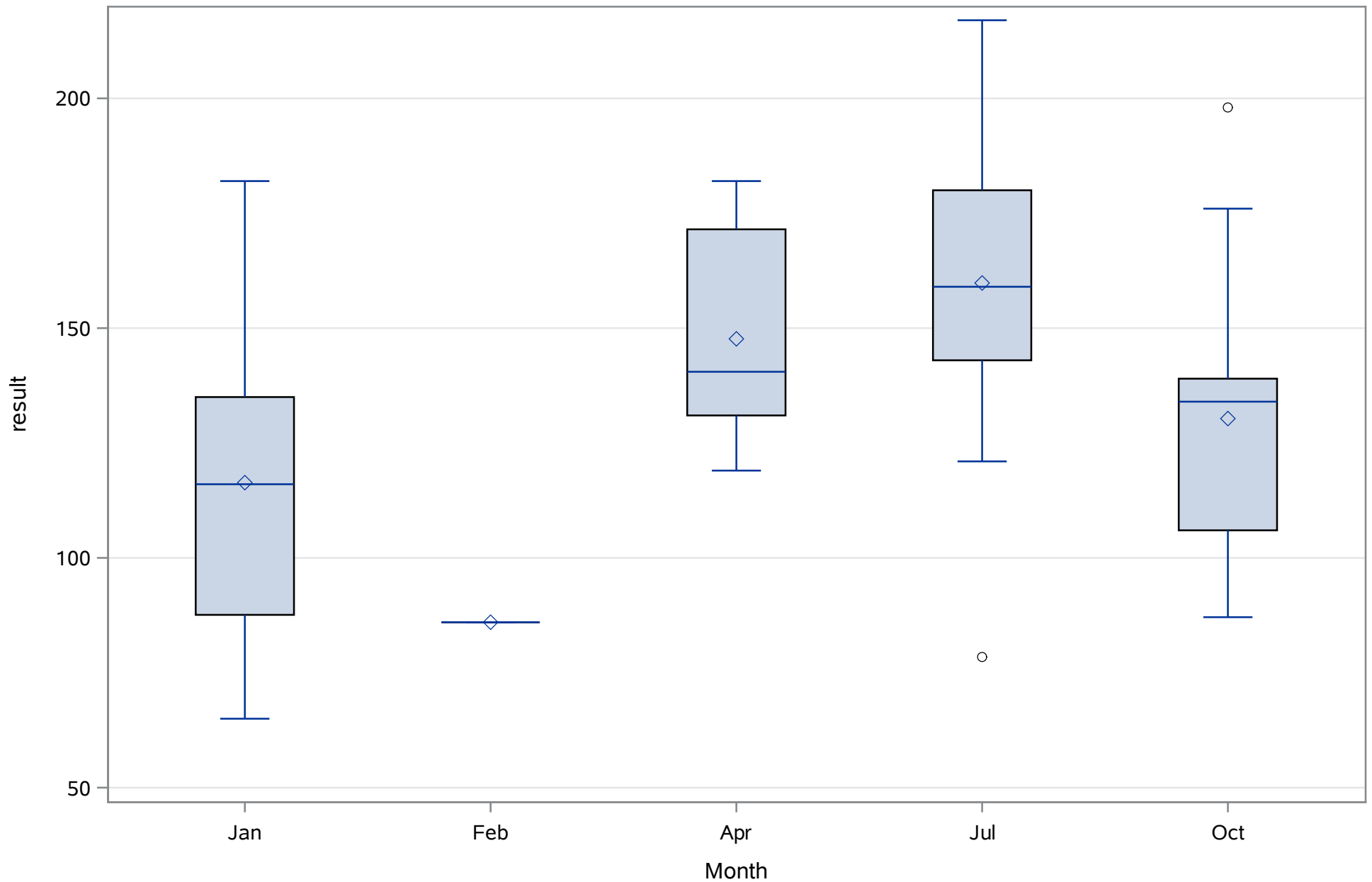
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Fluoride (Dissolved) mg/L



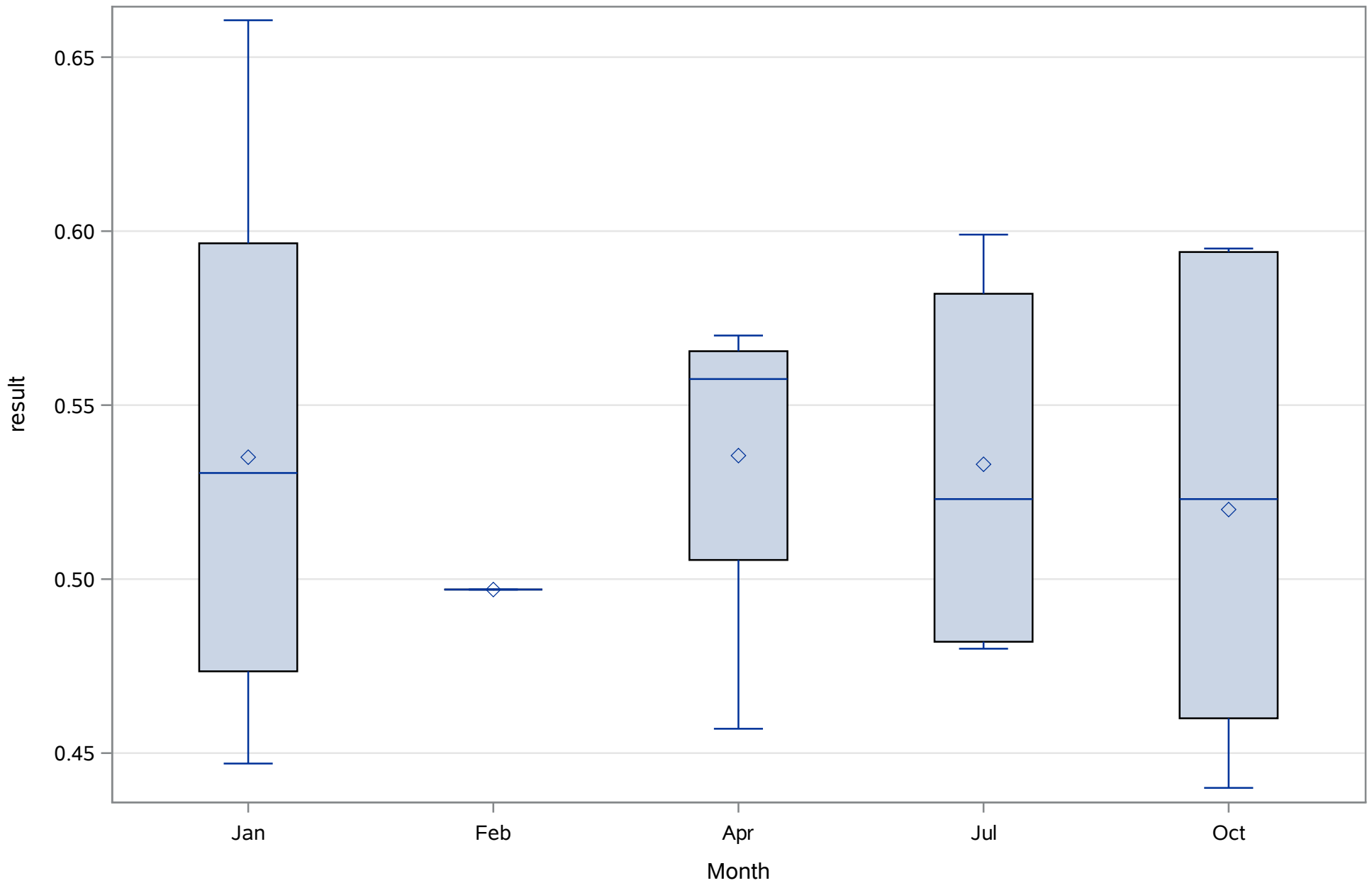
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Iron (Dissolved) ug/L



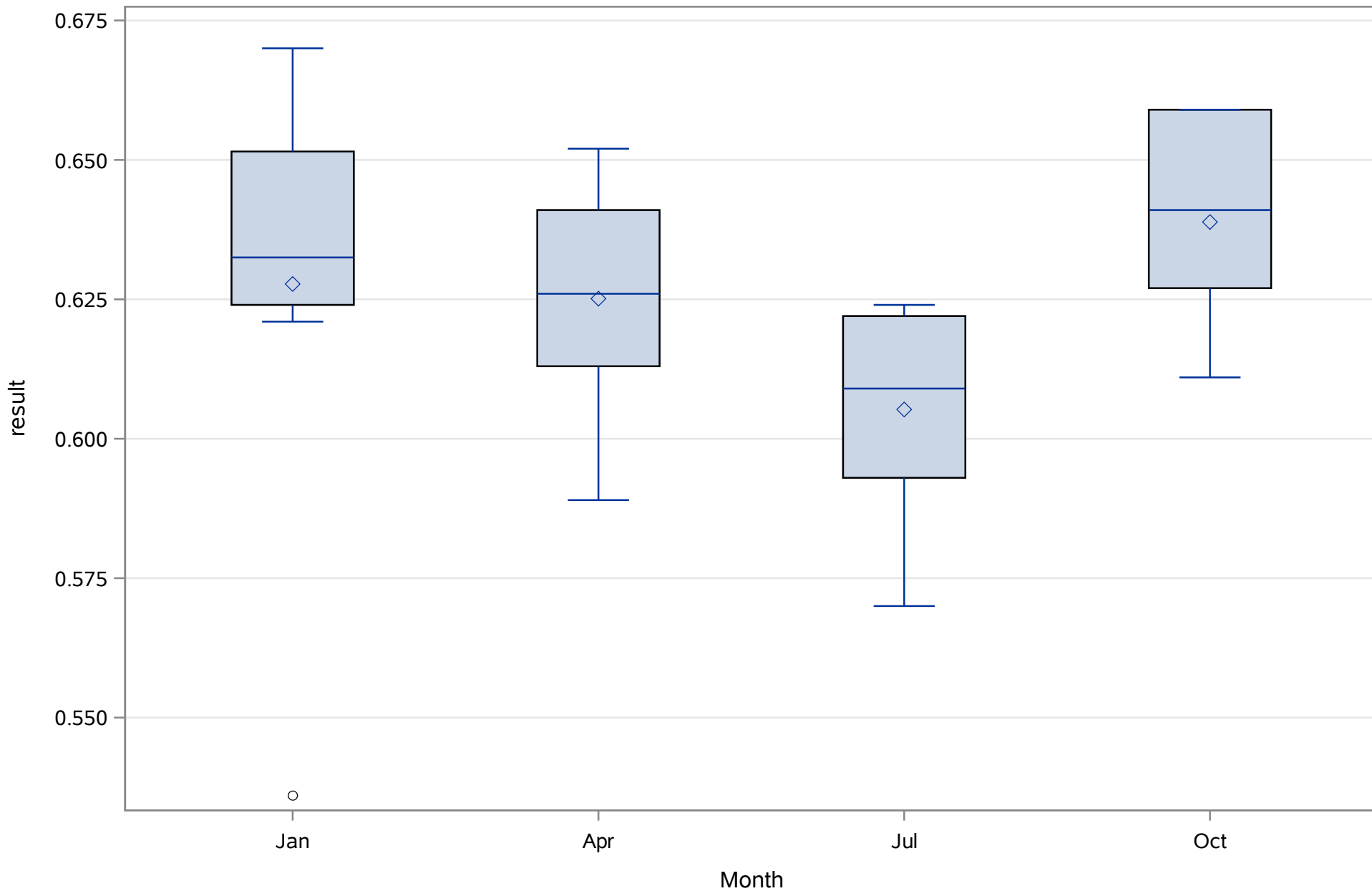
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Magnesium (Dissolved) mg/L



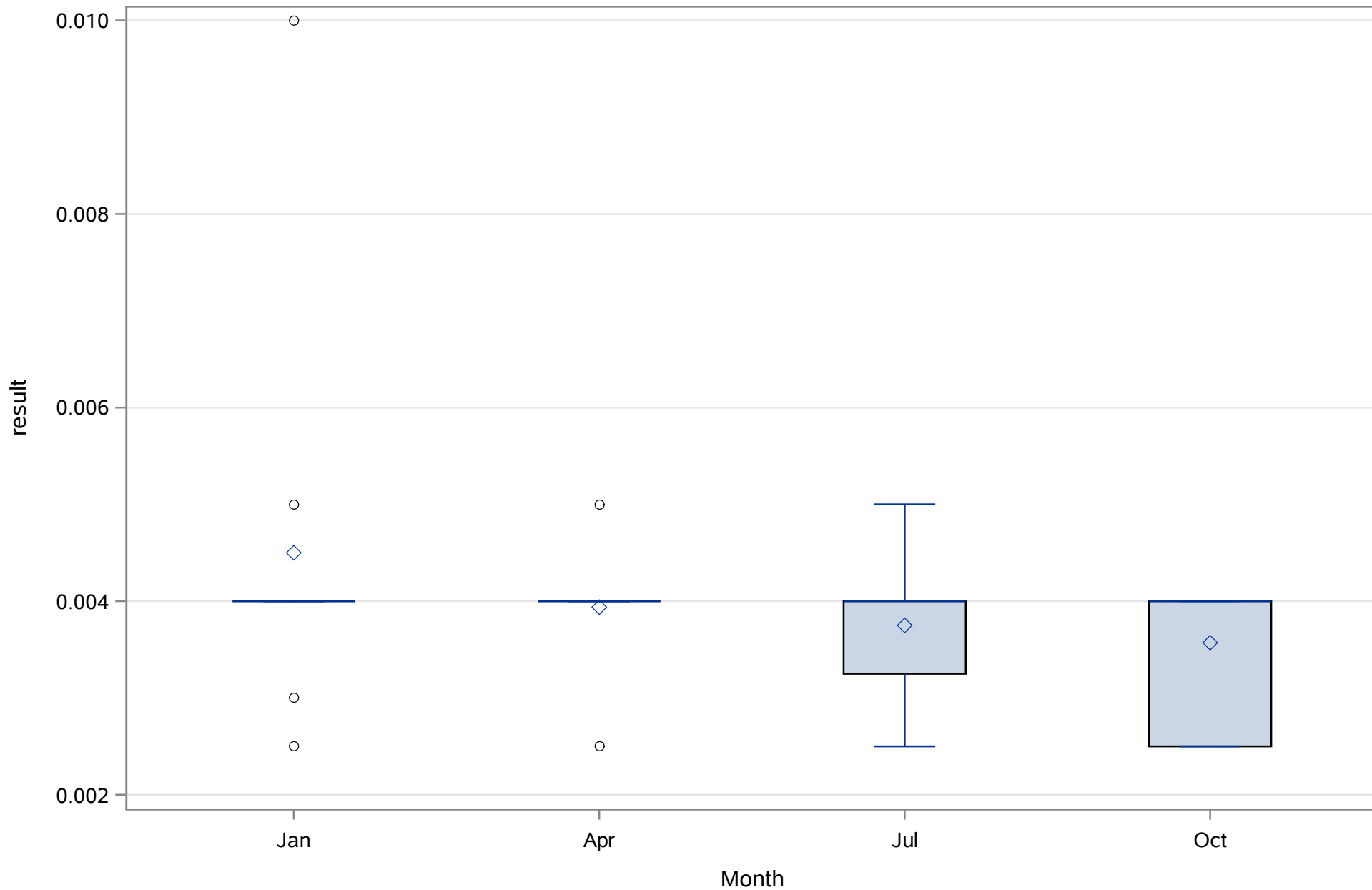
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



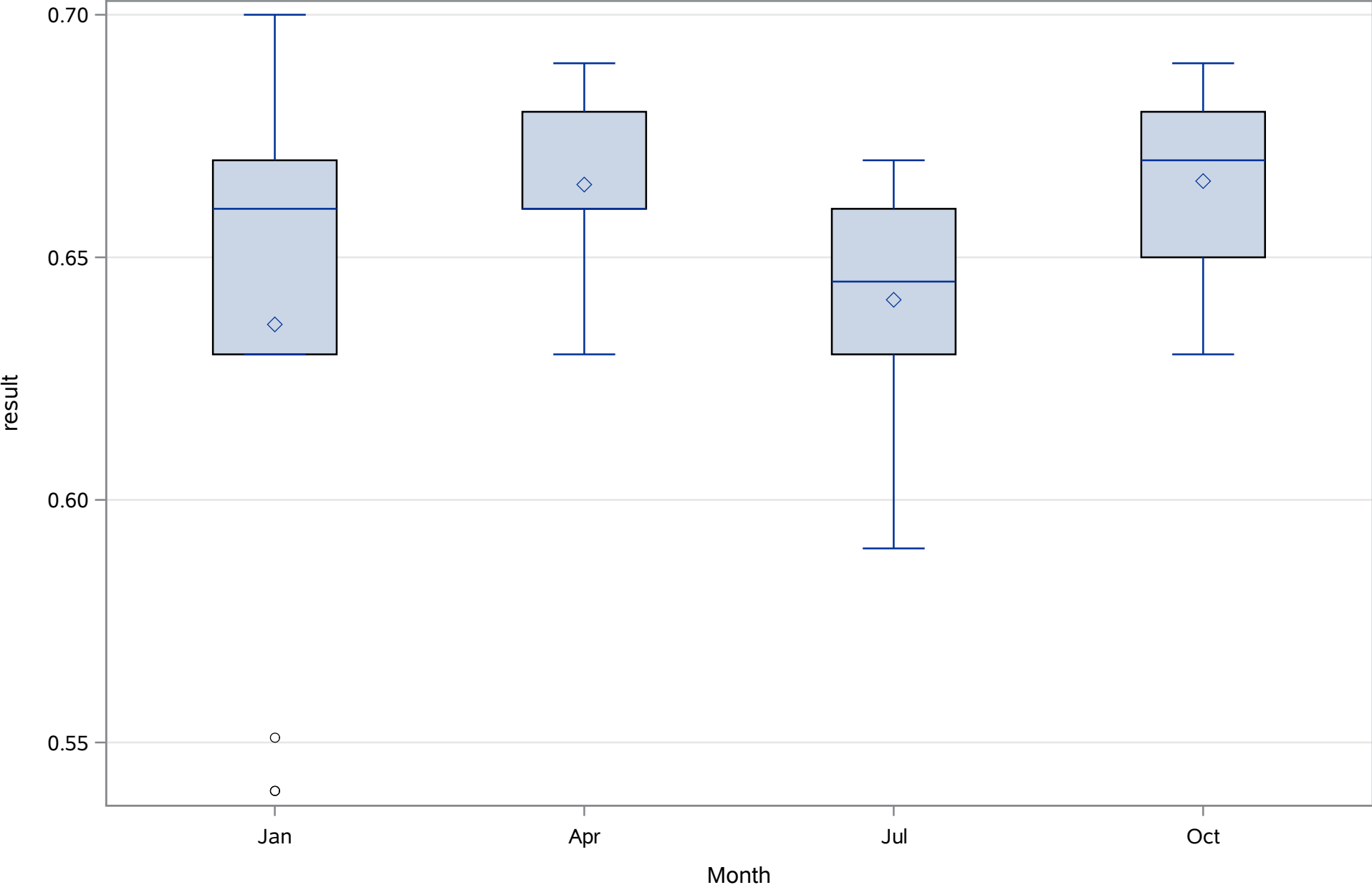
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrate-Nitrite (N) (Total) mg/L



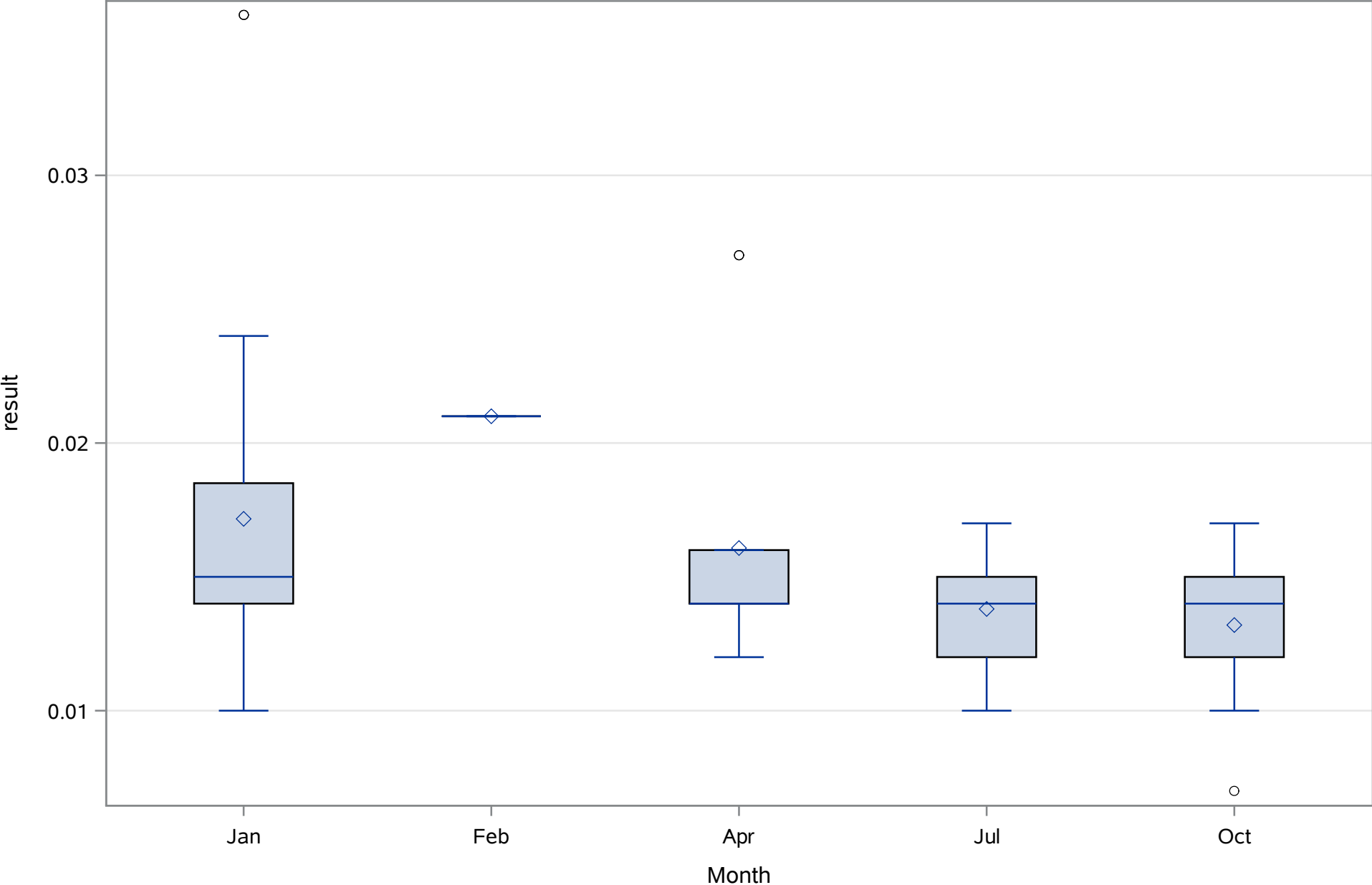
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrite (N) (Total) mg/L



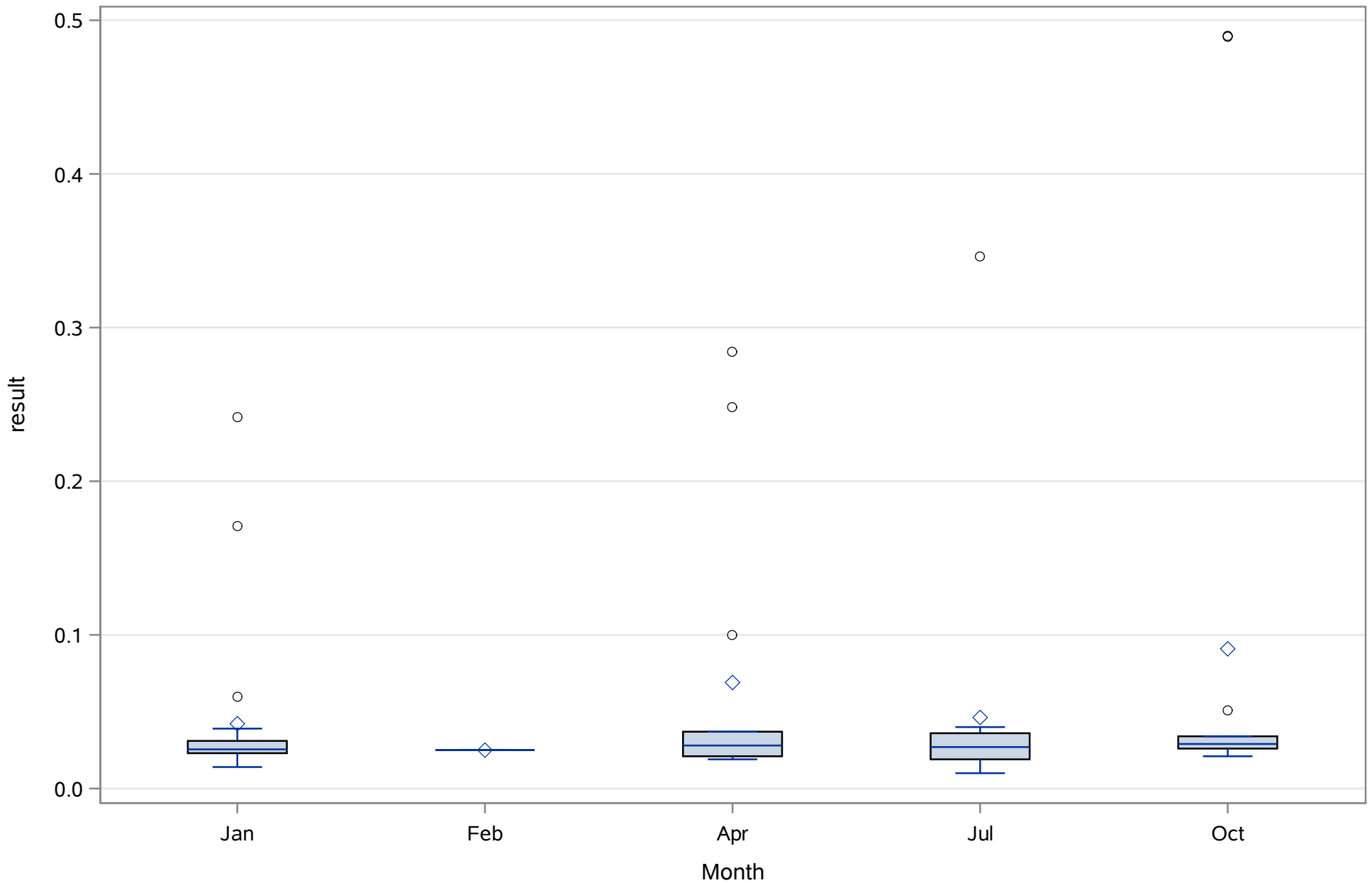
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Nitrogen- Total (Total) mg/L



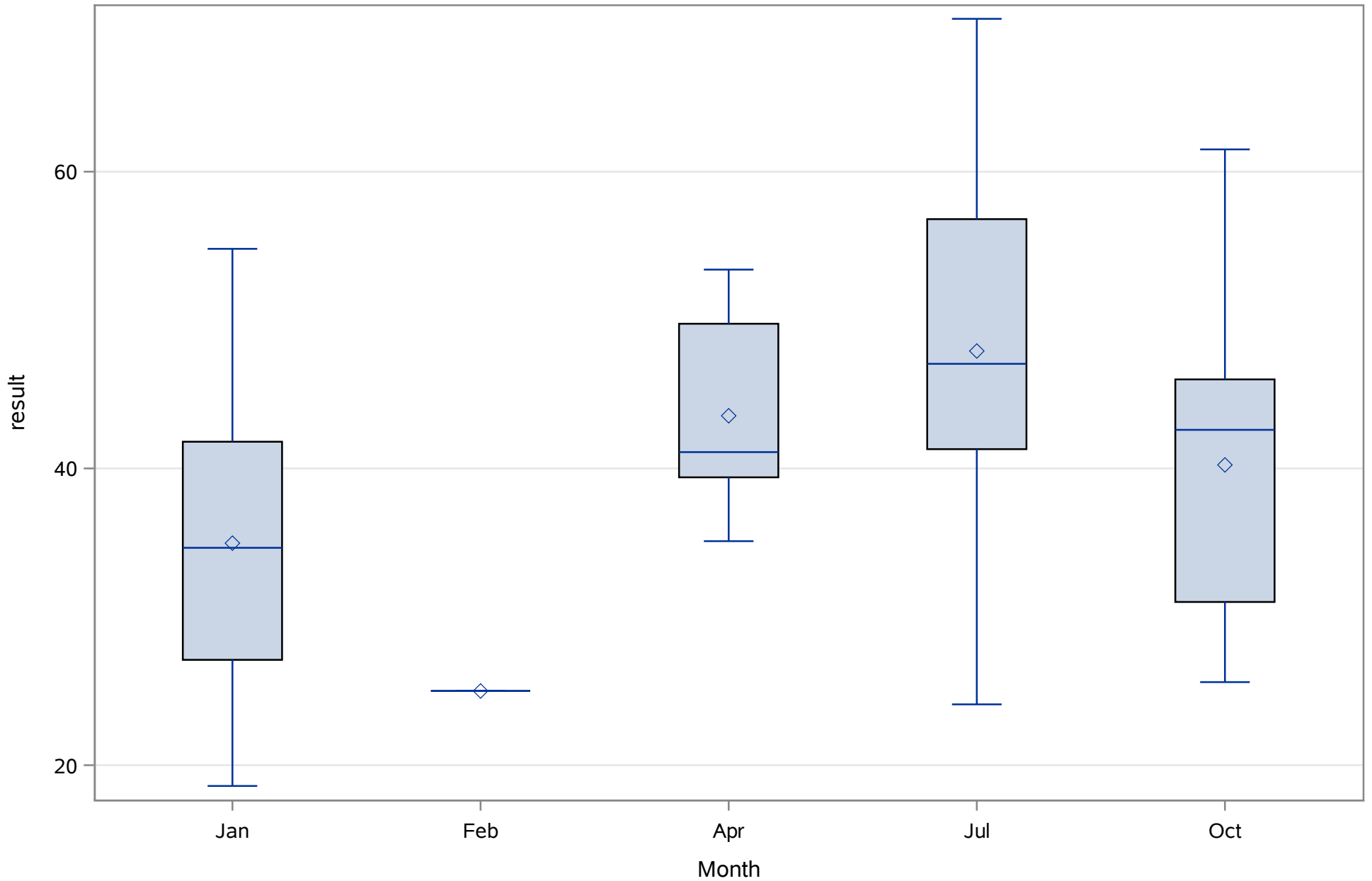
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Orthophosphate (P) (Dissolved) mg/L



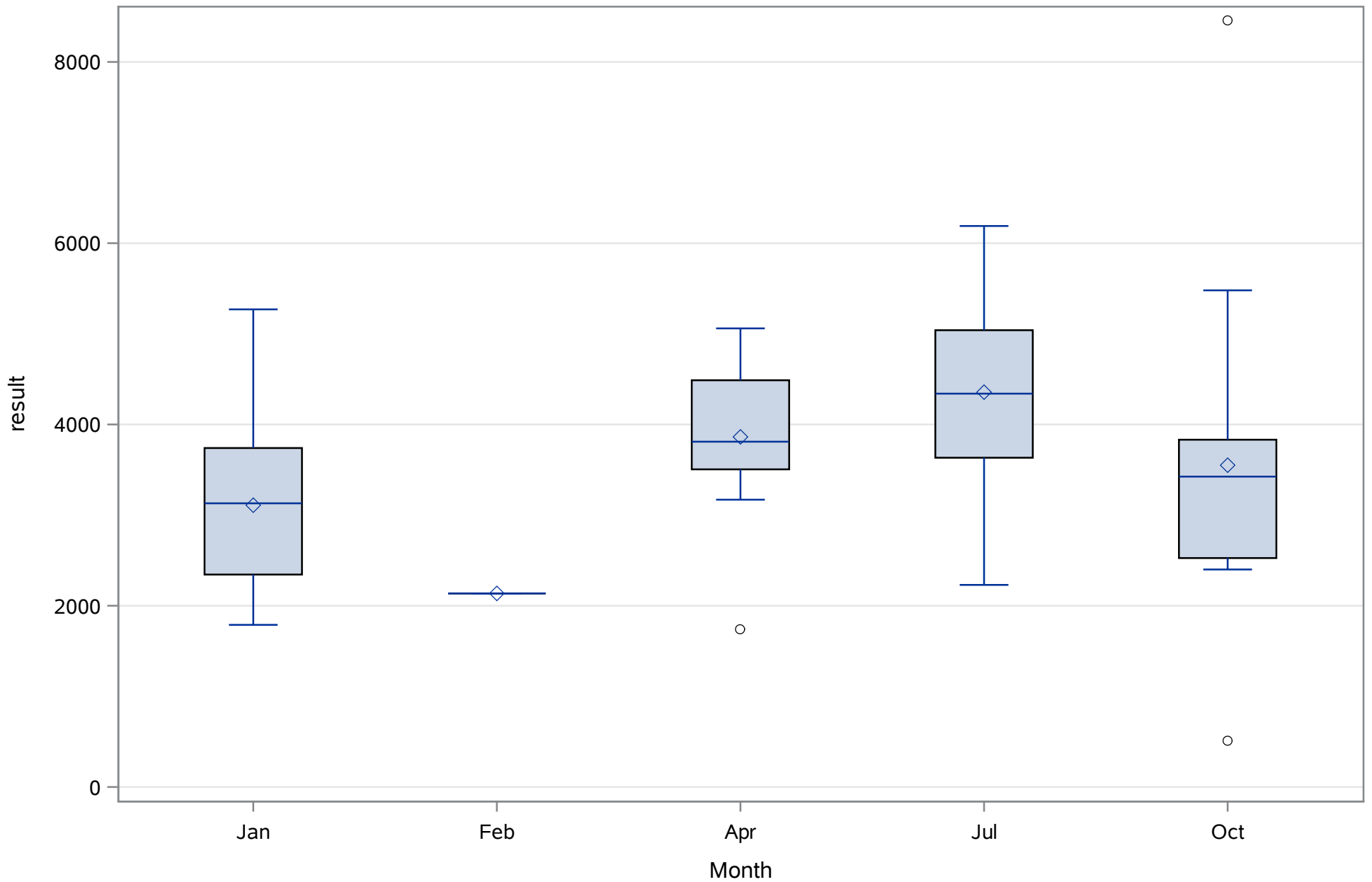
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Phosphorus- Total (Total) mg/L



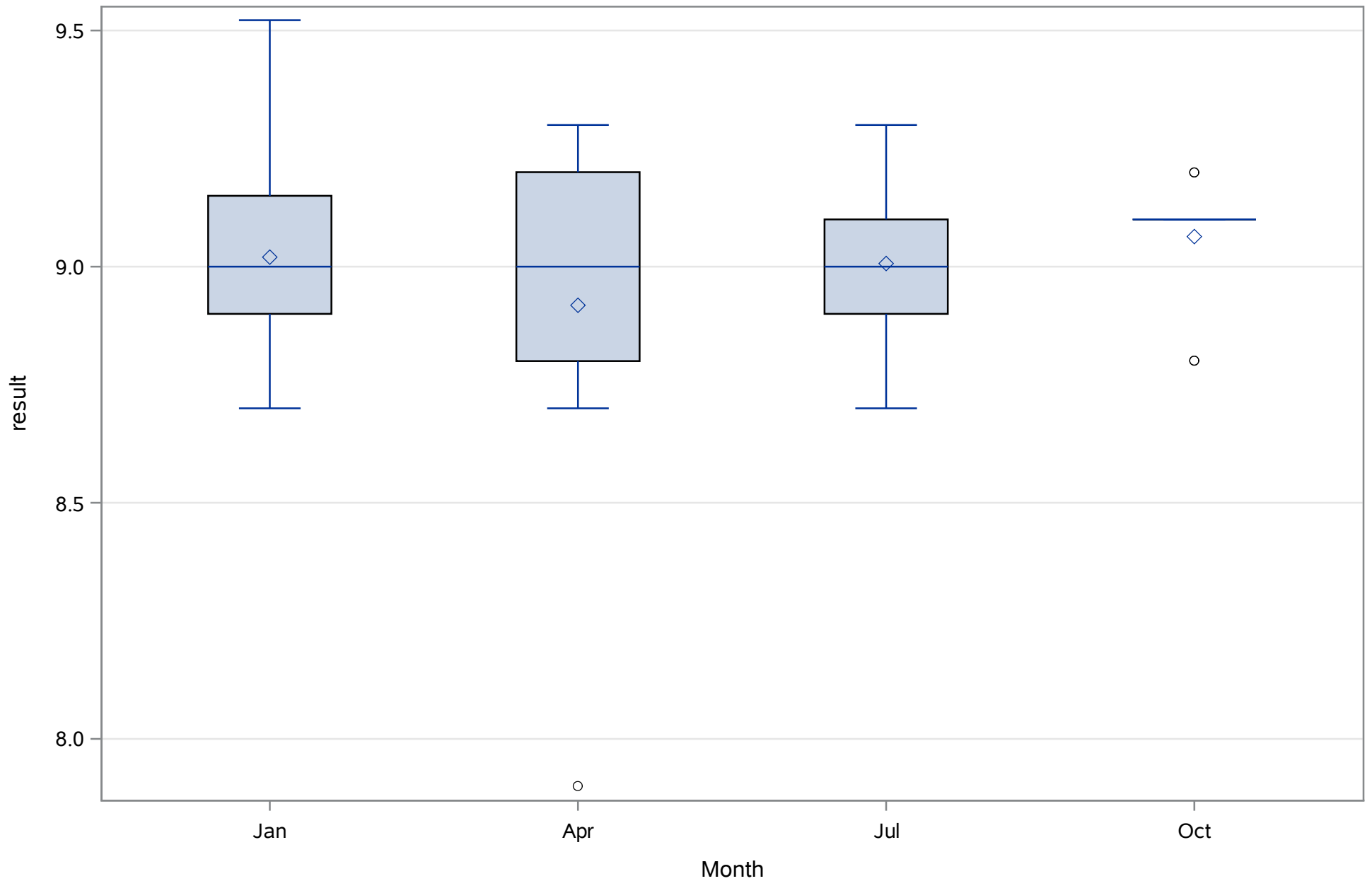
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Potassium (Dissolved) mg/L



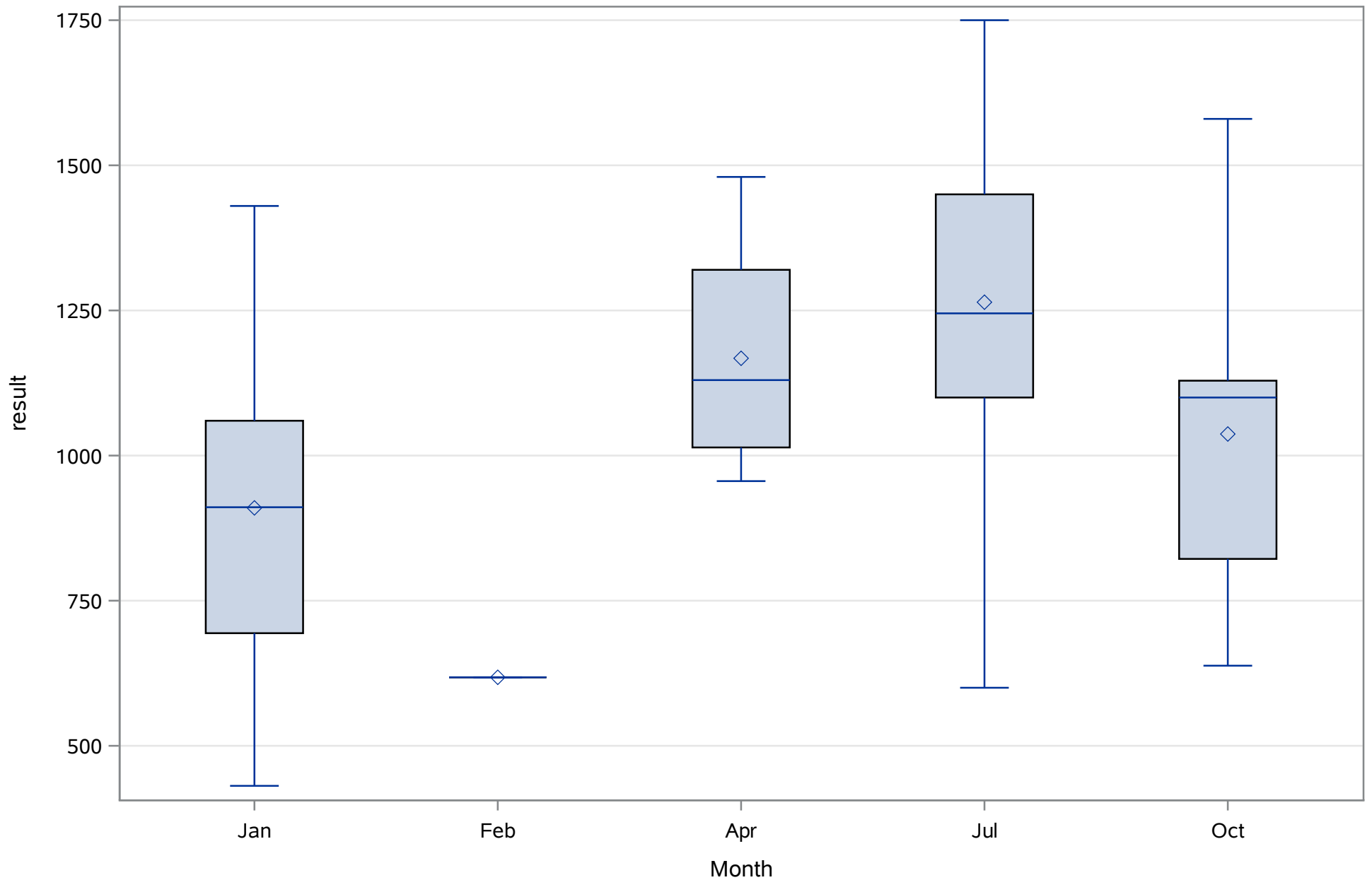
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Residues- Filterable (TDS) (Dissolved) mg/L



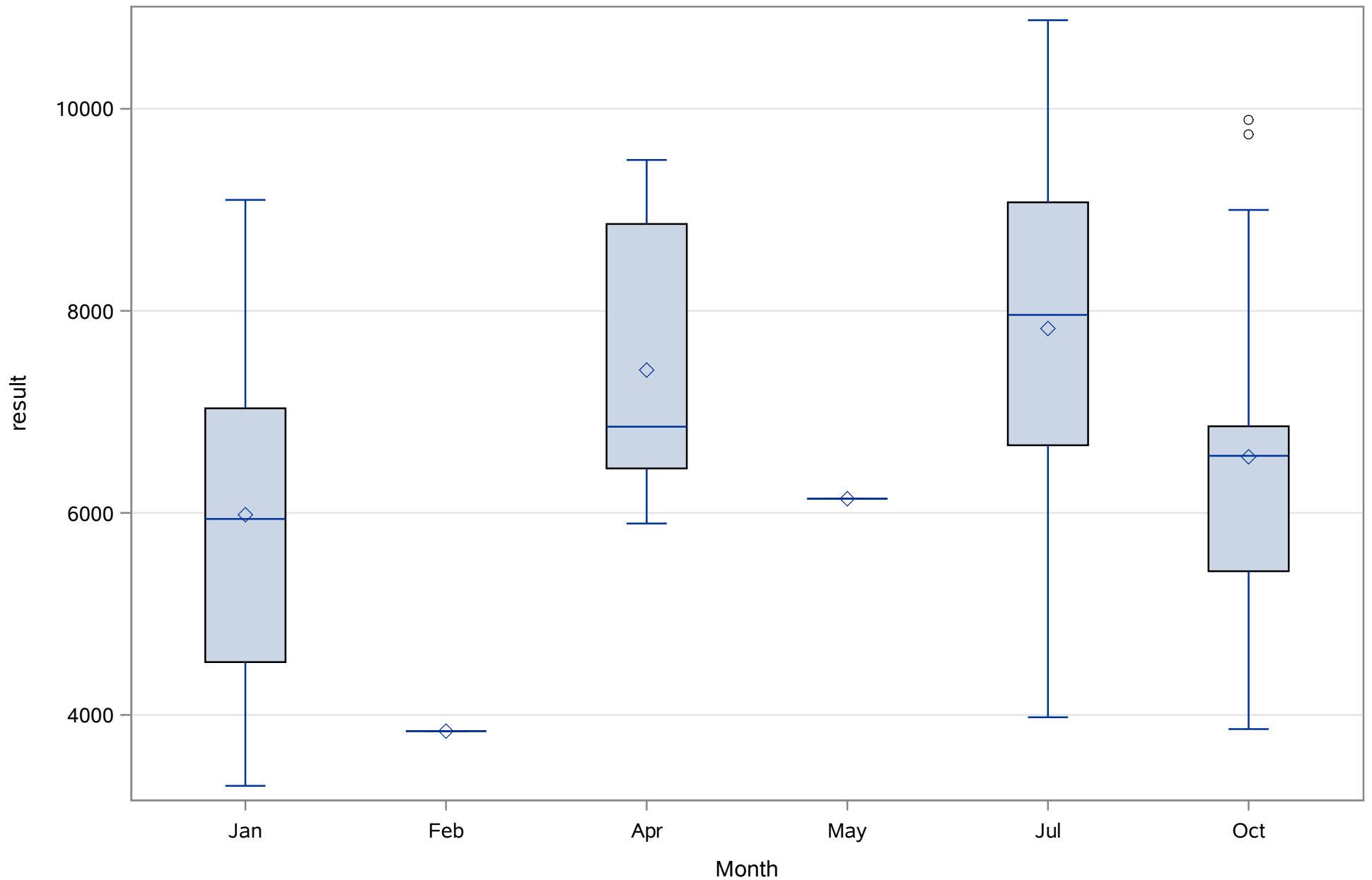
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Silica- Dissolved (Dissolved) mg/L



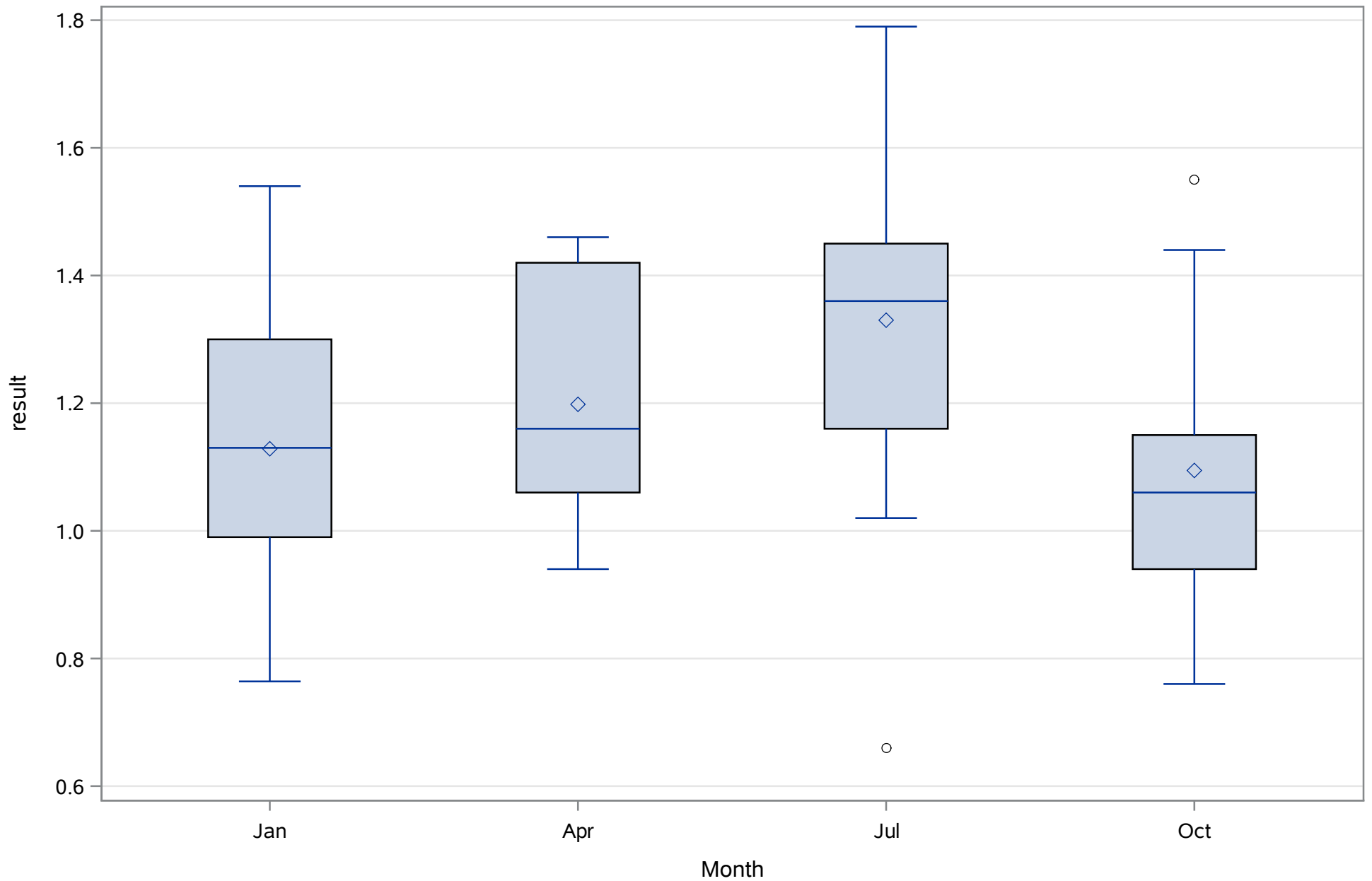
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sodium (Dissolved) mg/L



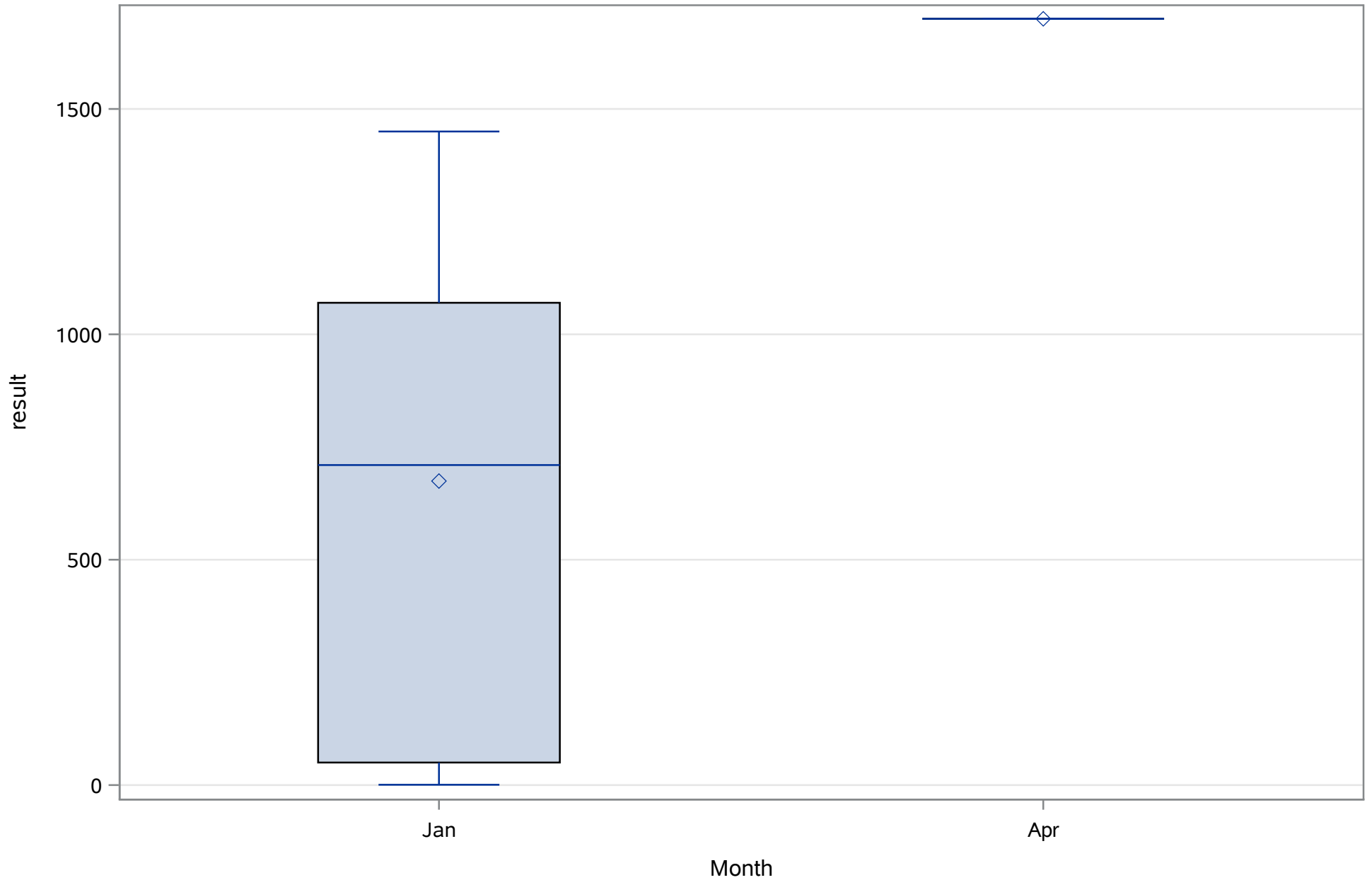
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Specific Conductance (Total) uS/cm



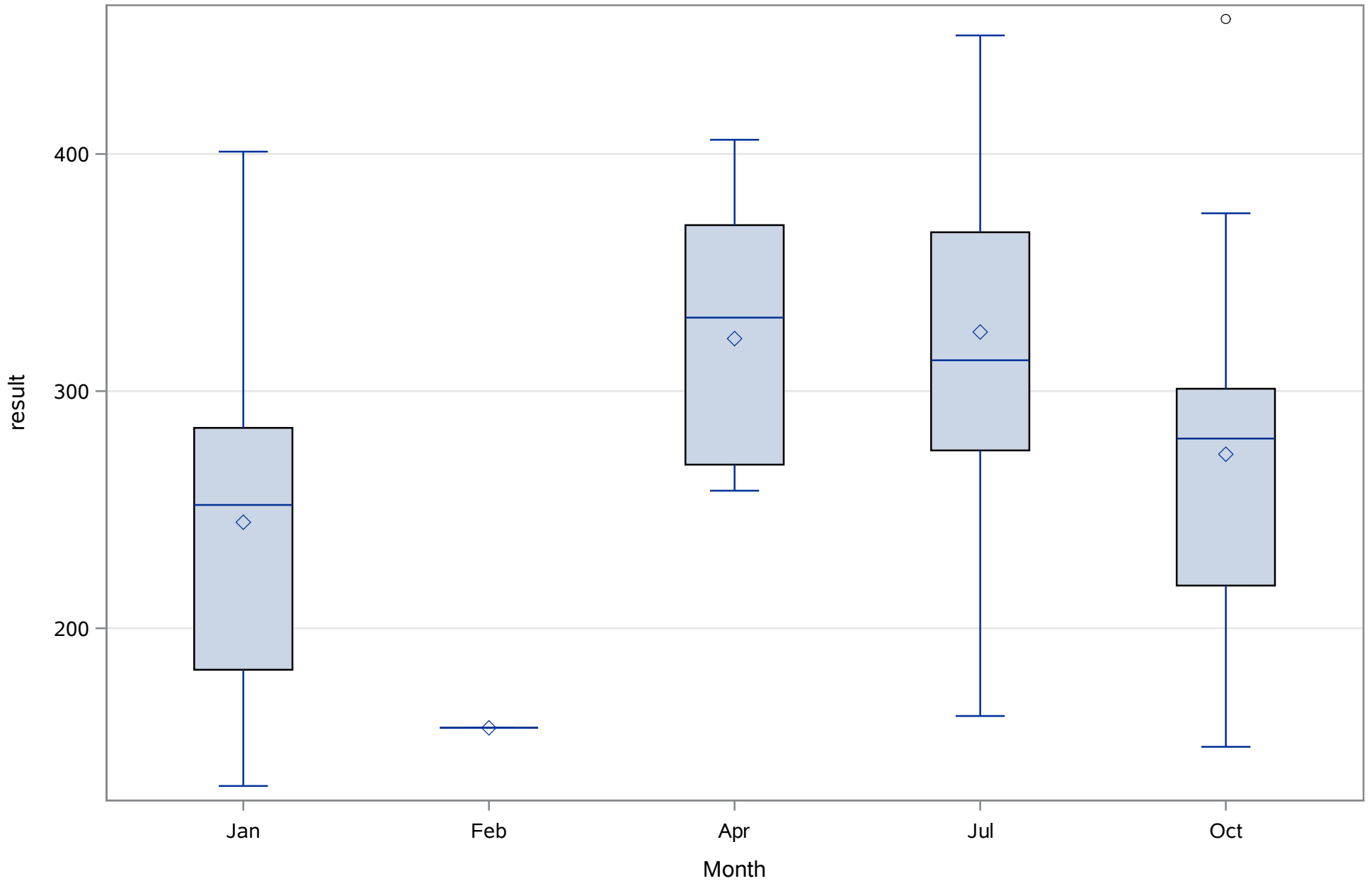
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) mg/L



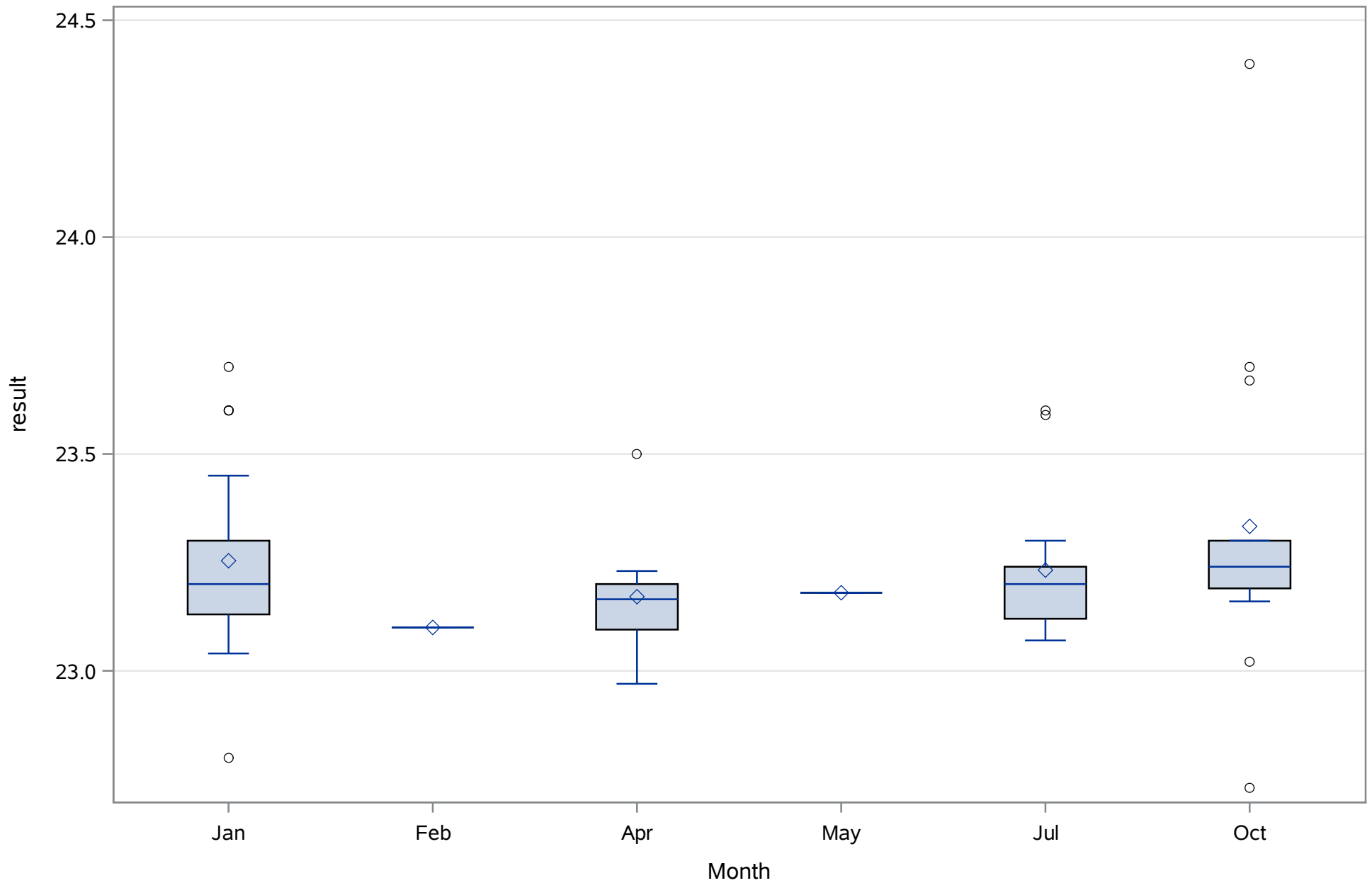
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Strontium (Dissolved) ug/L



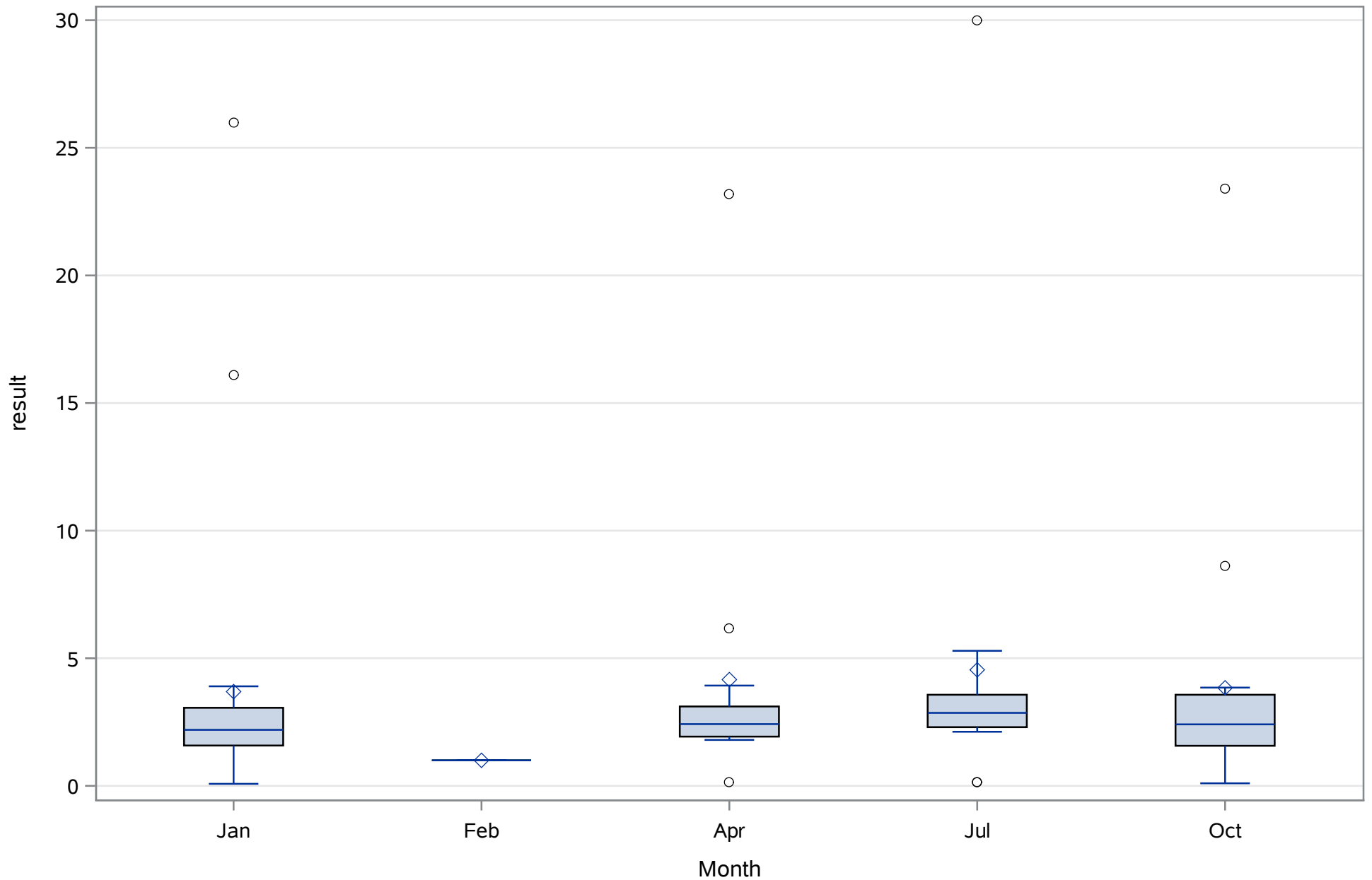
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Sulfate (Dissolved) mg/L



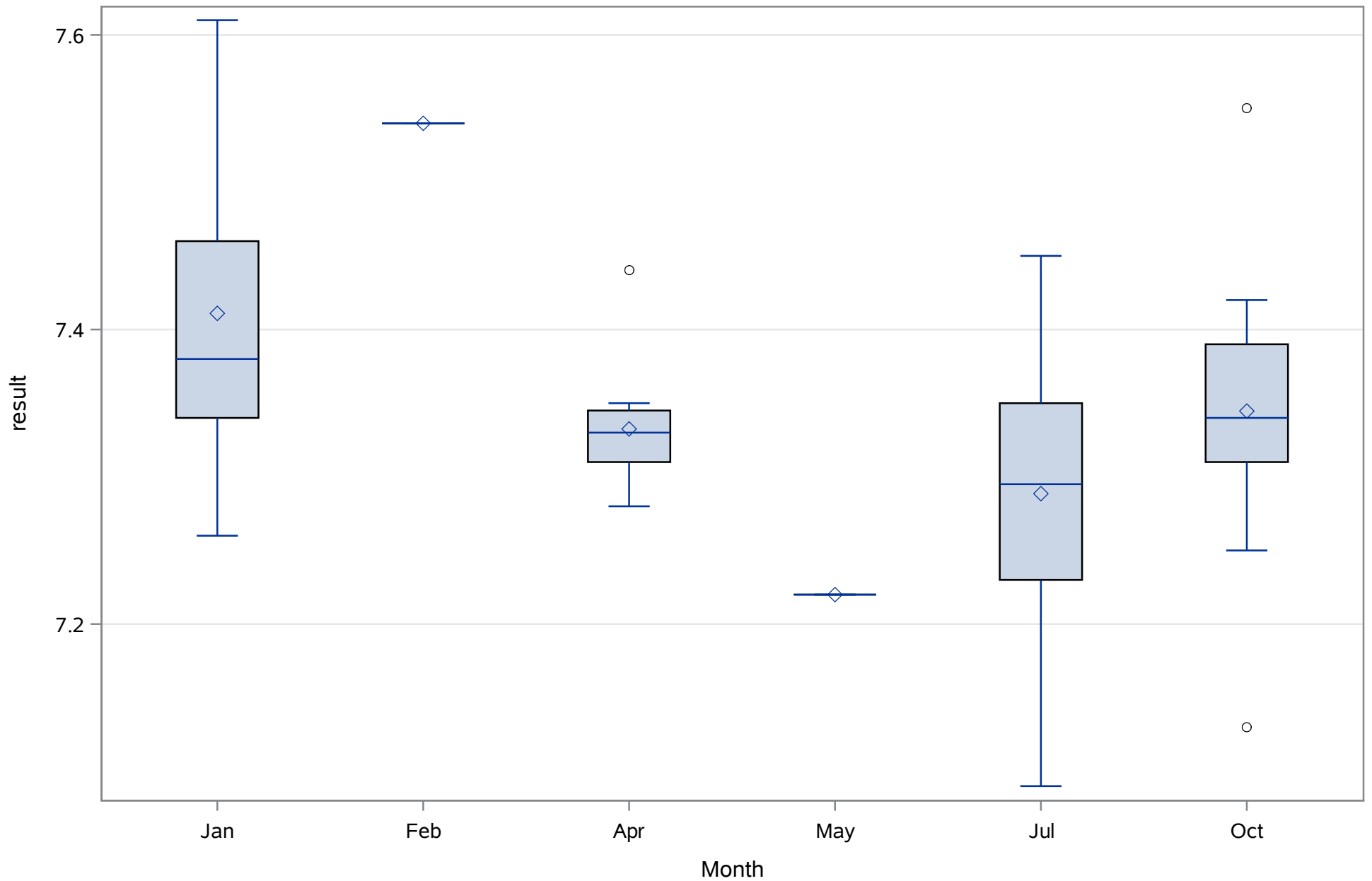
Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Crab Creek Spring
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Total)	mg/L	JAN1995	JUL2017	97	5.2%	0.0%	5.2%
Aluminum (Dissolved)	ug/L	JAN2013	JUL2017	18	0.0%	0.0%	5.6%
Ammonia (N) (Dissolved)	mg/L	NOV1994	JAN2010	73	11.0%	0.0%	2.7%
Ammonia (N) (Total)	mg/L	JAN1998	JUL2017	43	14.0%	0.0%	2.3%
Bicarbonate (Total)	mg/L	NOV1994	APR2002	19	0.0%	0.0%	0.0%
Boron (Dissolved)	ug/L	JAN2013	JUL2017	18	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	NOV1994	JUL2017	108	4.6%	0.9%	1.9%
Calcium (Total)	mg/L	APR1998	JAN2000	9	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	NOV1994	JUL2017	113	2.7%	1.8%	0.9%
Chloride (Dissolved)	mg/L	NOV1994	JUL2017	113	0.0%	1.8%	0.0%
Color (Dissolved)	PCU	MAY2010	JUL2017	29	10.3%	0.0%	3.4%
Depth (Total)	Meters	JUL2007	JAN2010	5	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	JUL2008	JUL2008	1	0.0%	0.0%	100.0%
Dissolved Oxygen (Total)	mg/L	APR2000	JUL2017	65	4.6%	0.0%	1.5%
Eh, Field (hydrogen electrode)	mV	APR2000	APR2002	6	0.0%	0.0%	0.0%
Fluoride (Dissolved)	mg/L	JAN1995	JUL2017	91	4.4%	0.0%	2.2%
Fluoride (Total)	mg/L	NOV1994	APR2003	35	5.7%	0.0%	0.0%
Hardness (Total)	mg/L	JAN1998	OCT2000	13	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	NOV1994	JUL2017	113	5.3%	0.9%	0.9%
Magnesium (Dissolved)	mg/L	JAN1995	JUL2017	94	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	NOV1994	OCT2000	22	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	JAN2013	JUL2017	18	0.0%	0.0%	5.6%
Nitrate (N) (Dissolved)	mg/L	JAN1995	APR2005	40	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	JUL1995	APR1999	16	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	NOV1994	JAN2010	68	2.9%	0.0%	2.9%
Nitrate-Nitrite (N) (Total)	mg/L	JUL2000	JUL2017	35	0.0%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	NOV1994	JAN2010	52	7.7%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN1998	JUL2017	42	16.7%	0.0%	0.0%
Nitrogen- Organic (Dissolved)	mg/L	JAN1995	JUL1998	15	0.0%	0.0%	6.7%
Nitrogen- Total (Dissolved)	mg/L	APR2002	NOV2009	21	4.8%	0.0%	4.8%
Nitrogen- Total (Total)	mg/L	OCT1997	JUL2017	67	6.0%	0.0%	1.5%
Nitrogen- Total Kjeldahl (Total)	mg/L	NOV1994	JAN2000	14	0.0%	0.0%	7.1%
Nitrogen15/Nitrogen14 Isotope Ratio	per mil	AUG2005	AUG2005	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Orthophosphate (P) (Dissolved)	mg/L	NOV1994	JUL2017	114	5.3%	0.0%	3.5%
Phosphorus- Total (Total)	mg/L	NOV1994	JUL2017	116	7.8%	1.7%	0.9%
Potassium (Dissolved)	mg/L	JAN1995	JUL2017	95	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	NOV1994	JUL2000	25	0.0%	0.0%	0.0%
Purge Volume (Total)	Gallons	OCT1999	JUL2007	27	7.4%	0.0%	7.4%
Residues- Filterable (TDS) (Dissolved)	mg/L	NOV1994	JUL2017	112	0.0%	1.8%	0.0%
Silica- Dissolved (Dissolved)	mg/L	APR2001	JUL2017	72	1.4%	0.0%	1.4%
Sodium (Dissolved)	mg/L	JAN1995	JUL2017	94	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	NOV1994	APR2000	24	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN1995	JUL2017	178	0.0%	1.1%	0.0%
Strontium (Dissolved)	mg/L	AUG2005	JUL2017	48	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	APR1996	APR2006	42	2.4%	0.0%	2.4%
Strontium (Total)	ug/L	OCT1995	JUL2000	19	0.0%	0.0%	5.3%
Sulfate (Dissolved)	mg/L	NOV1994	JUL2017	113	0.0%	1.8%	0.0%
Temperature (Total)	Deg. C	JAN1995	JUL2017	89	7.9%	0.0%	2.2%
Turbidity (Total)	NTU	NOV1994	JUL2017	113	10.6%	0.9%	1.8%
Uranium (234/238) Isotope Ratio	Ratio	APR1995	APR1995	1	0.0%	0.0%	100.0%
Uranium (Total)	ug/L	APR1995	APR1995	1	0.0%	0.0%	100.0%
pH (Total)	SU	JAN1995	JUL2017	89	6.7%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	97	Sum Weights	97
Mean	164.023093	Sum Observations	15910.24
Std Deviation	38.8118115	Variance	1506.35671
Skewness	-3.9063967	Kurtosis	14.1788086
Uncorrected SS	2754257.02	Corrected SS	144610.244
Coeff Variation	23.6624068	Std Error Mean	3.94074239

Basic Statistical Measures			
Location		Variability	
Mean	164.0231	Std Deviation	38.81181
Median	171.9000	Variance	1506
Mode	1.0000	Range	189.00000
		Interquartile Range	10.40000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	41.62238	Pr > t 	<.0001
Sign	M	48.5	Pr >= M 	<.0001
Signed Rank	S	2376.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	190.0
99%	190.0
95%	184.0
90%	182.4
75% Q3	177.4
50% Median	171.9
25% Q1	167.0
10%	161.0
5%	1.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	36	184.00	78
1	33	185.00	38
1	31	186.60	88
1	30	189.65	48
1	27	190.00	37

Chassahowitzka River - Fixed Station

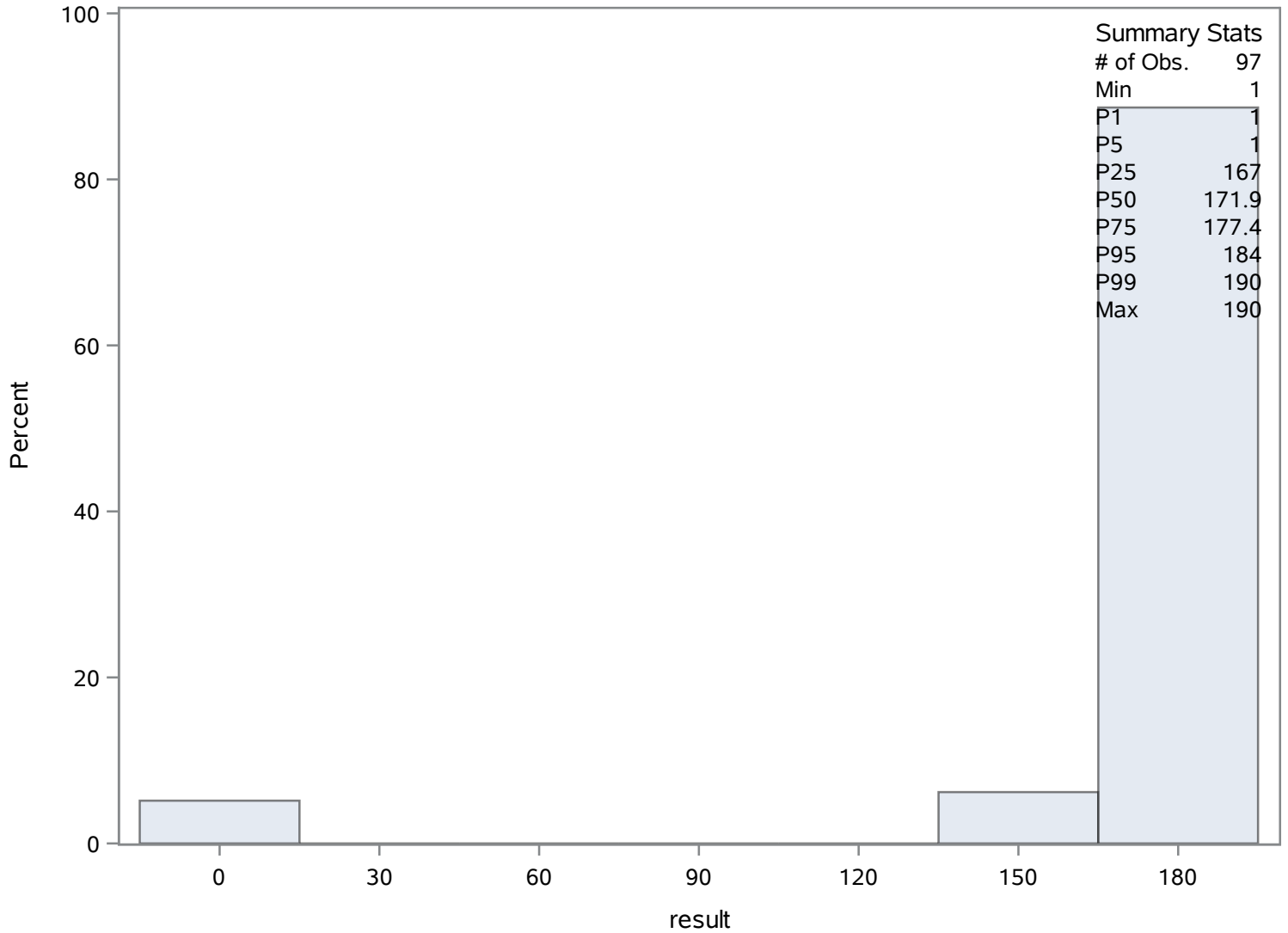
Source: Springs Data

Betee Jay Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	73	Sum Weights	73
Mean	0.01447397	Sum Observations	1.0566
Std Deviation	0.02479974	Variance	0.00061503
Skewness	6.15374334	Kurtosis	42.7185393
Uncorrected SS	0.05957516	Corrected SS	0.04428196
Coeff Variation	171.340262	Std Error Mean	0.00290259

Basic Statistical Measures			
Location		Variability	
Mean	0.014474	Std Deviation	0.02480
Median	0.010000	Variance	0.0006150
Mode	0.010000	Range	0.19600
		Interquartile Range	0.00500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.986571	Pr > t 	<.0001
Sign	M	36.5	Pr >= M 	<.0001
Signed Rank	S	1350.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.197
99%	0.197
95%	0.034
90%	0.029
75% Q3	0.011
50% Median	0.010
25% Q1	0.006
10%	0.005
5%	0.003
1%	0.001
0% Min	0.001

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	99	0.032	132
0.002	103	0.034	112
0.002	101	0.034	113
0.003	108	0.093	160
0.005	166	0.197	98

Chassahowitzka River - Fixed Station

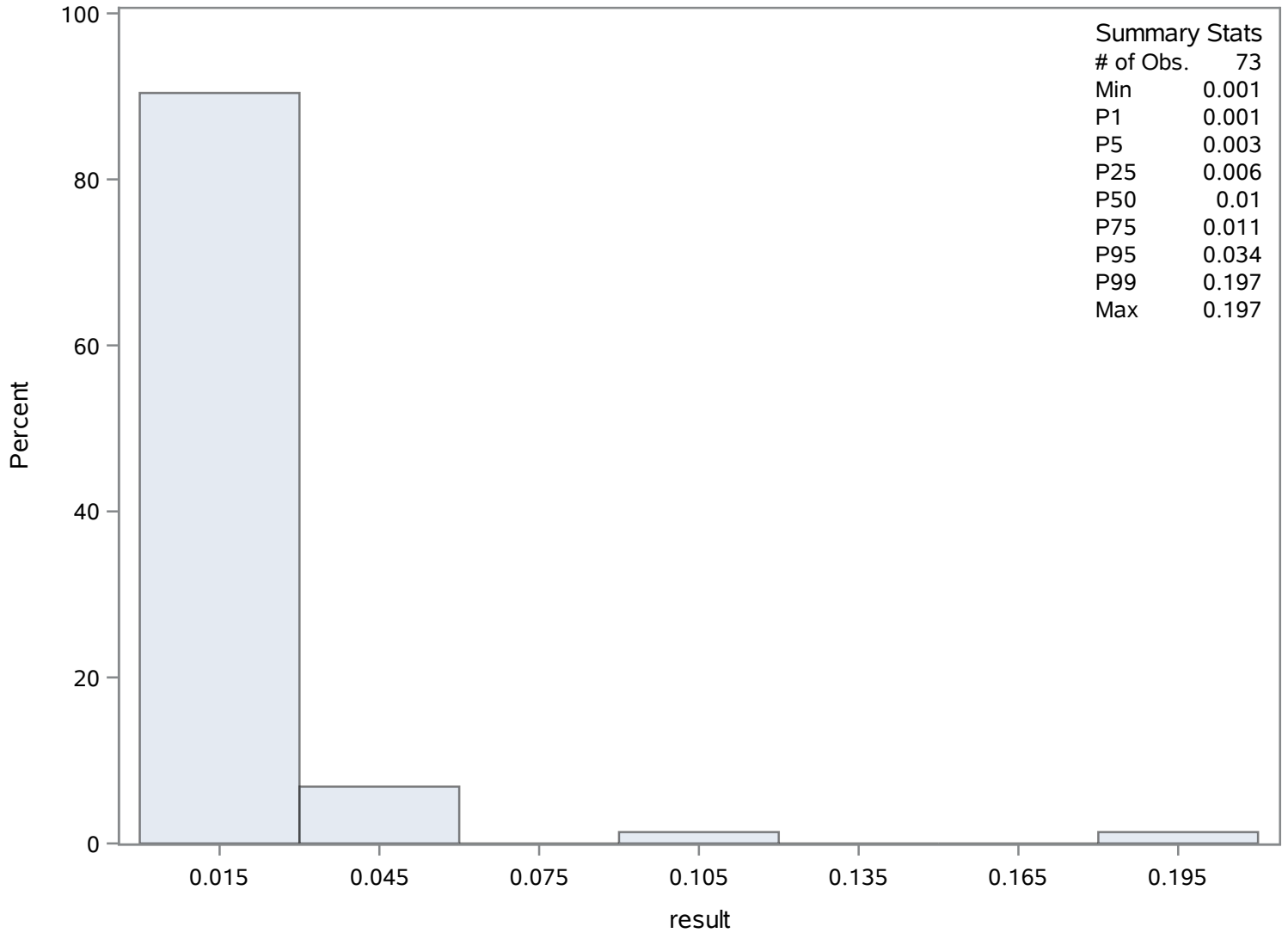
Source: Springs Data

Betee Jay Spring

Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	43	Sum Weights	43
Mean	0.0254186	Sum Observations	1.093
Std Deviation	0.08102975	Variance	0.00656582
Skewness	6.13974957	Kurtosis	38.7959282
Uncorrected SS	0.303547	Corrected SS	0.27576447
Coeff Variation	318.781272	Std Error Mean	0.01235692

Basic Statistical Measures			
Location		Variability	
Mean	0.025419	Std Deviation	0.08103
Median	0.010000	Variance	0.00657
Mode	0.010000	Range	0.52500
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	2.057034	Pr > t 	0.0459
Sign	M	21.5	Pr >= M 	<.0001
Signed Rank	S	473	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.532
99%	0.532
95%	0.029
90%	0.017
75% Q3	0.010
50% Median	0.010
25% Q1	0.010
10%	0.010
5%	0.007
1%	0.007
0% Min	0.007

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	188	0.017	175
0.007	187	0.017	183
0.007	186	0.029	184
0.008	185	0.124	182
0.010	213	0.532	176

Chassahowitzka River - Fixed Station

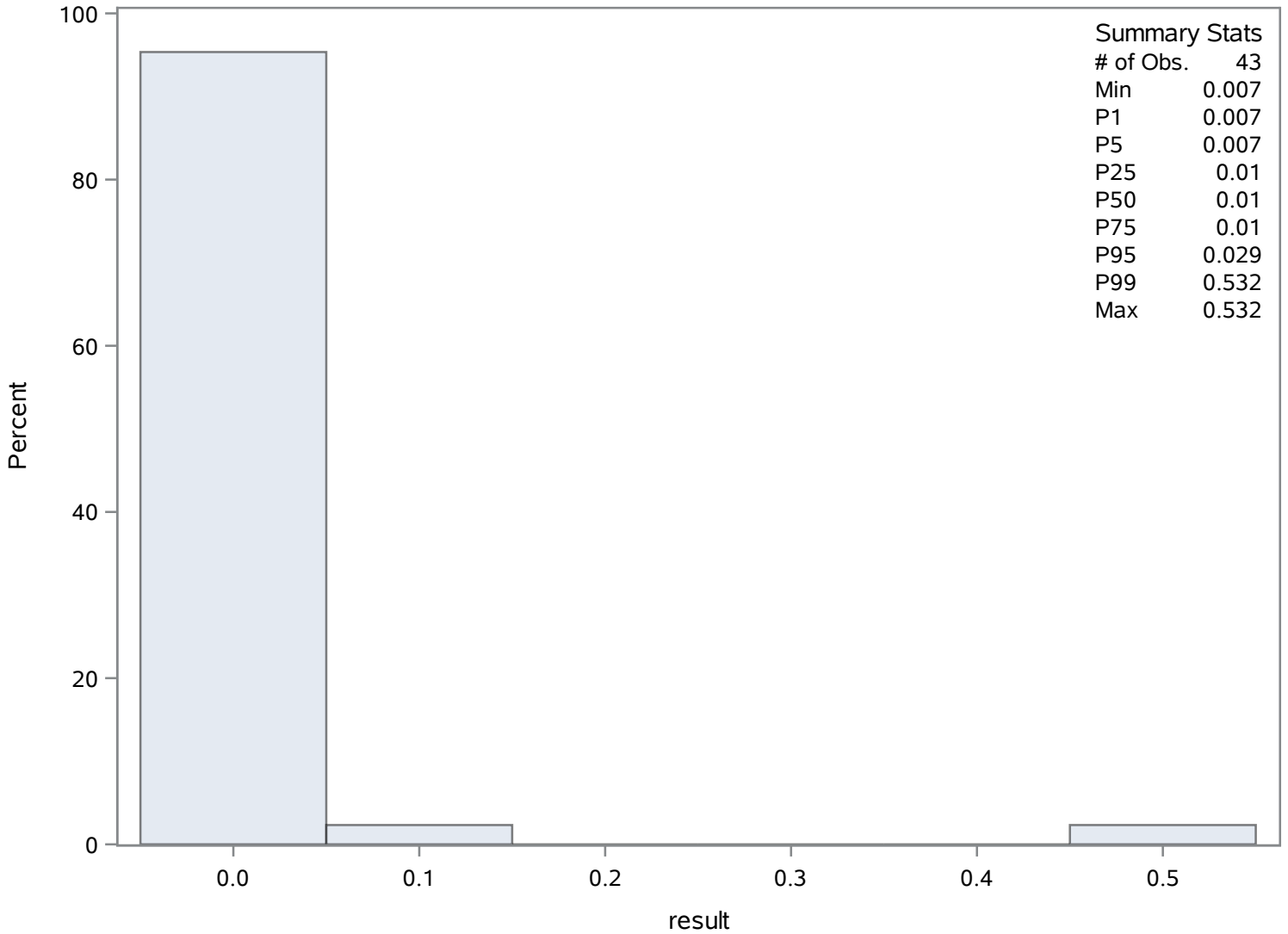
Source: Springs Data

Betee Jay Spring

Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	61.8580556	Sum Observations	6680.67
Std Deviation	4.48033595	Variance	20.0734102
Skewness	1.09242129	Kurtosis	1.76290133
Uncorrected SS	415401.111	Corrected SS	2147.85489
Coeff Variation	7.24293046	Std Error Mean	0.43112053

Basic Statistical Measures			
Location		Variability	
Mean	61.85806	Std Deviation	4.48034
Median	61.05000	Variance	20.07341
Mode	60.00000	Range	23.90000
		Interquartile Range	4.60000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	143.482	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	77.90
99%	76.40
95%	70.00
90%	67.90
75% Q3	63.80
50% Median	61.05
25% Q1	59.20
10%	56.40
5%	56.00
1%	54.00
0% Min	54.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

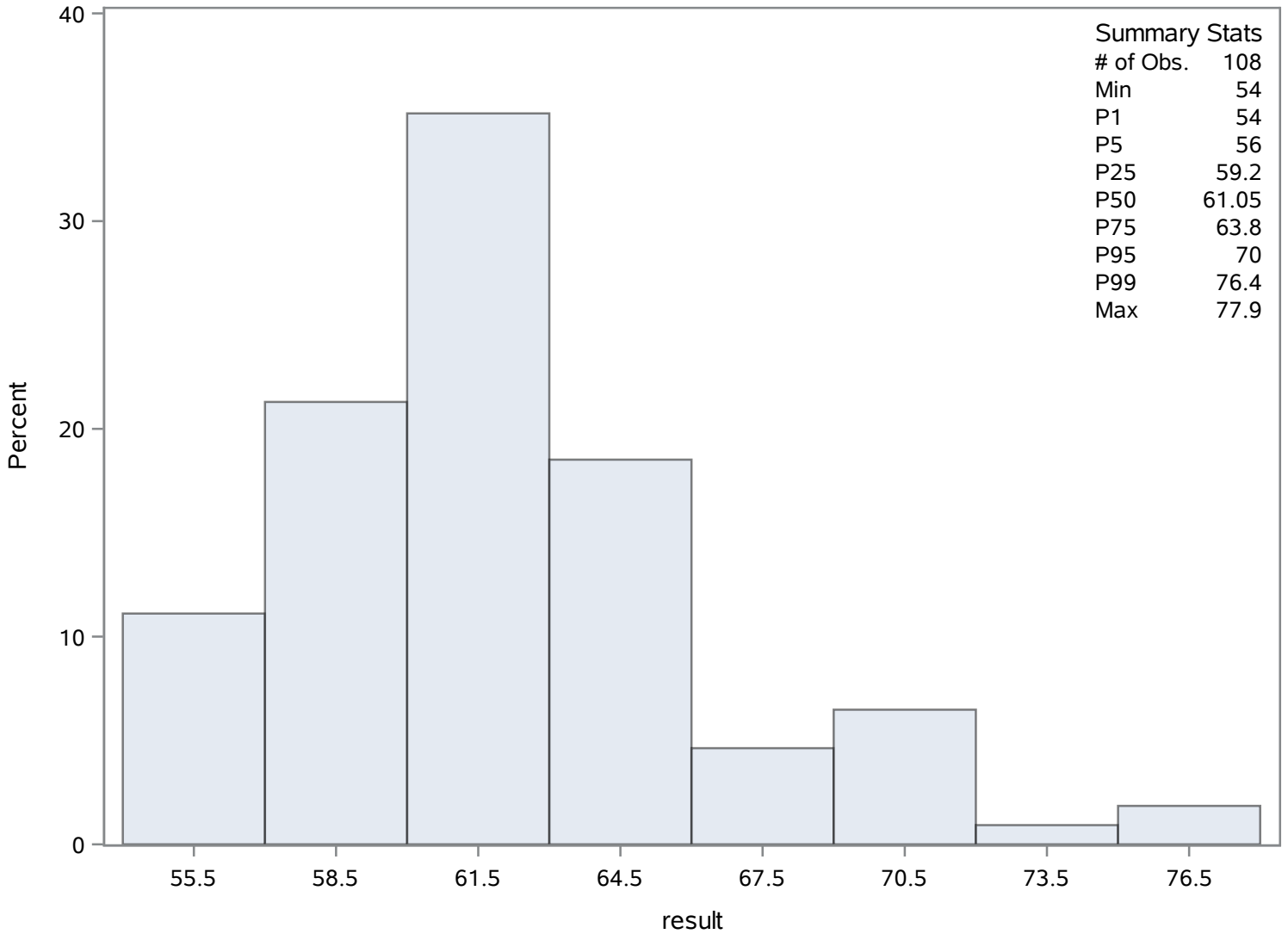
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.0	239	71.7	228
54.0	238	71.7	229
55.7	262	74.0	250
56.0	244	76.4	253
56.0	216	77.9	254

Chassahowitzka River - Fixed Station

Source: Springs Data
Bete Jay Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	113	Sum Weights	113
Mean	2.95964602	Sum Observations	334.44
Std Deviation	3.72999376	Variance	13.9128534
Skewness	2.95964357	Kurtosis	14.4394397
Uncorrected SS	2548.0636	Corrected SS	1558.23959
Coeff Variation	126.028374	Std Error Mean	0.3508883

Basic Statistical Measures			
Location		Variability	
Mean	2.959646	Std Deviation	3.72999
Median	1.100000	Variance	13.91285
Mode	0.400000	Range	26.84000
		Interquartile Range	3.87000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.434724	Pr > t 	<.0001
Sign	M	56.5	Pr >= M 	<.0001
Signed Rank	S	3220.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	27.00
99%	11.80
95%	8.96
90%	8.00
75% Q3	4.53
50% Median	1.10
25% Q1	0.66
10%	0.40
5%	0.30
1%	0.28
0% Min	0.16

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Carbon- Total Organic (Total) mg/L

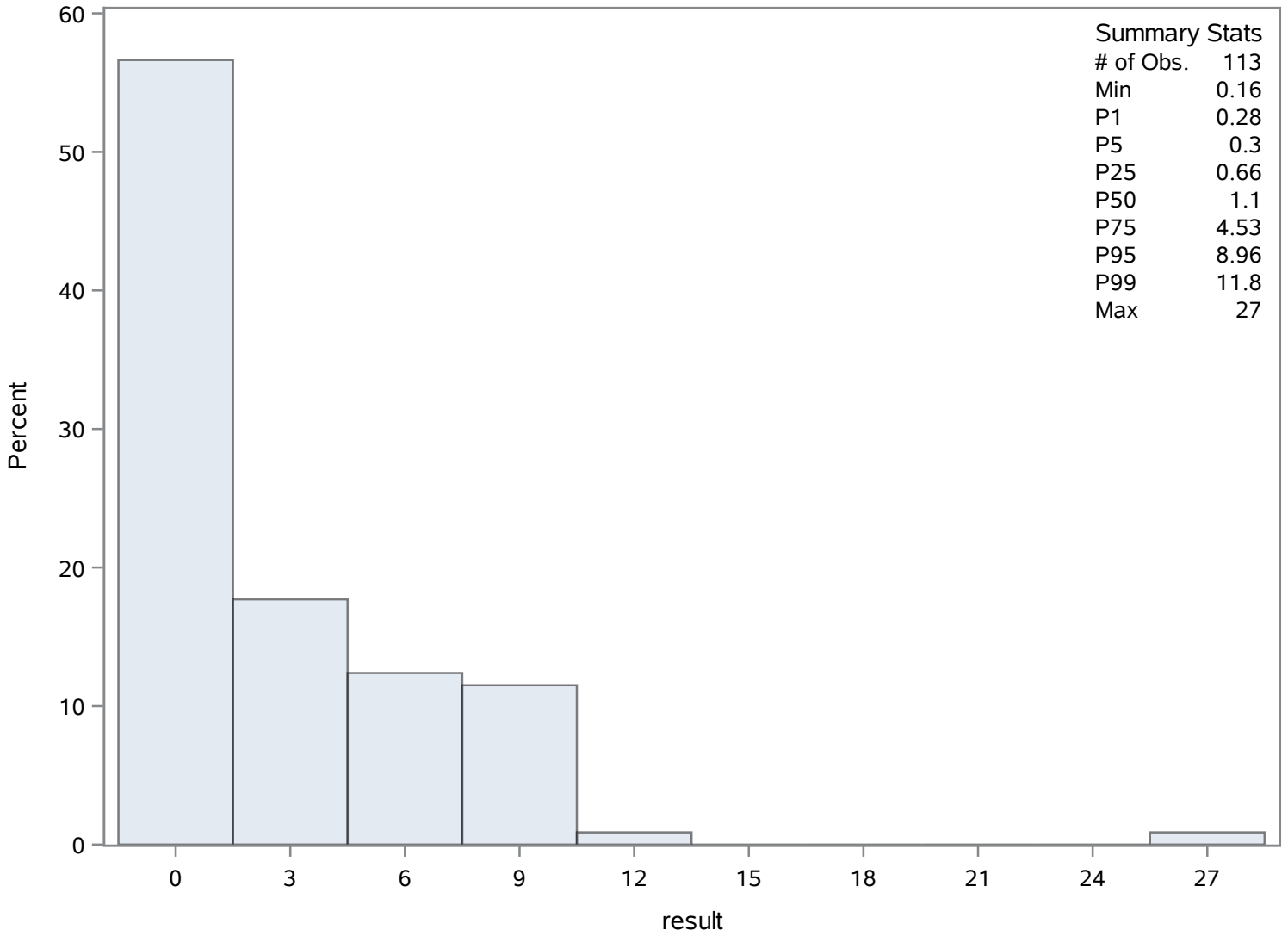
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.16	402	10.2	415
0.28	414	10.4	353
0.30	395	10.4	354
0.30	394	11.8	368
0.30	367	27.0	373

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	113	Sum Weights	113
Mean	146.760088	Sum Observations	16583.89
Std Deviation	123.151563	Variance	15166.3076
Skewness	0.94078138	Kurtosis	-0.0376541
Uncorrected SS	4132479.61	Corrected SS	1698626.45
Coeff Variation	83.913525	Std Error Mean	11.5851246

Basic Statistical Measures			
Location		Variability	
Mean	146.7601	Std Deviation	123.15156
Median	115.0000	Variance	15166
Mode	37.0000	Range	449.00000
		Interquartile Range	188.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.66798	Pr > t 	<.0001
Sign	M	56.5	Pr >= M 	<.0001
Signed Rank	S	3220.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	468.0
99%	465.0
95%	415.0
90%	311.0
75% Q3	225.0
50% Median	115.0
25% Q1	37.0
10%	25.9
5%	24.2
1%	21.4
0% Min	19.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19.00	435	417	517
21.40	500	421	507
21.91	498	462	520
24.00	461	465	479
24.00	460	468	480

Chassahowitzka River - Fixed Station

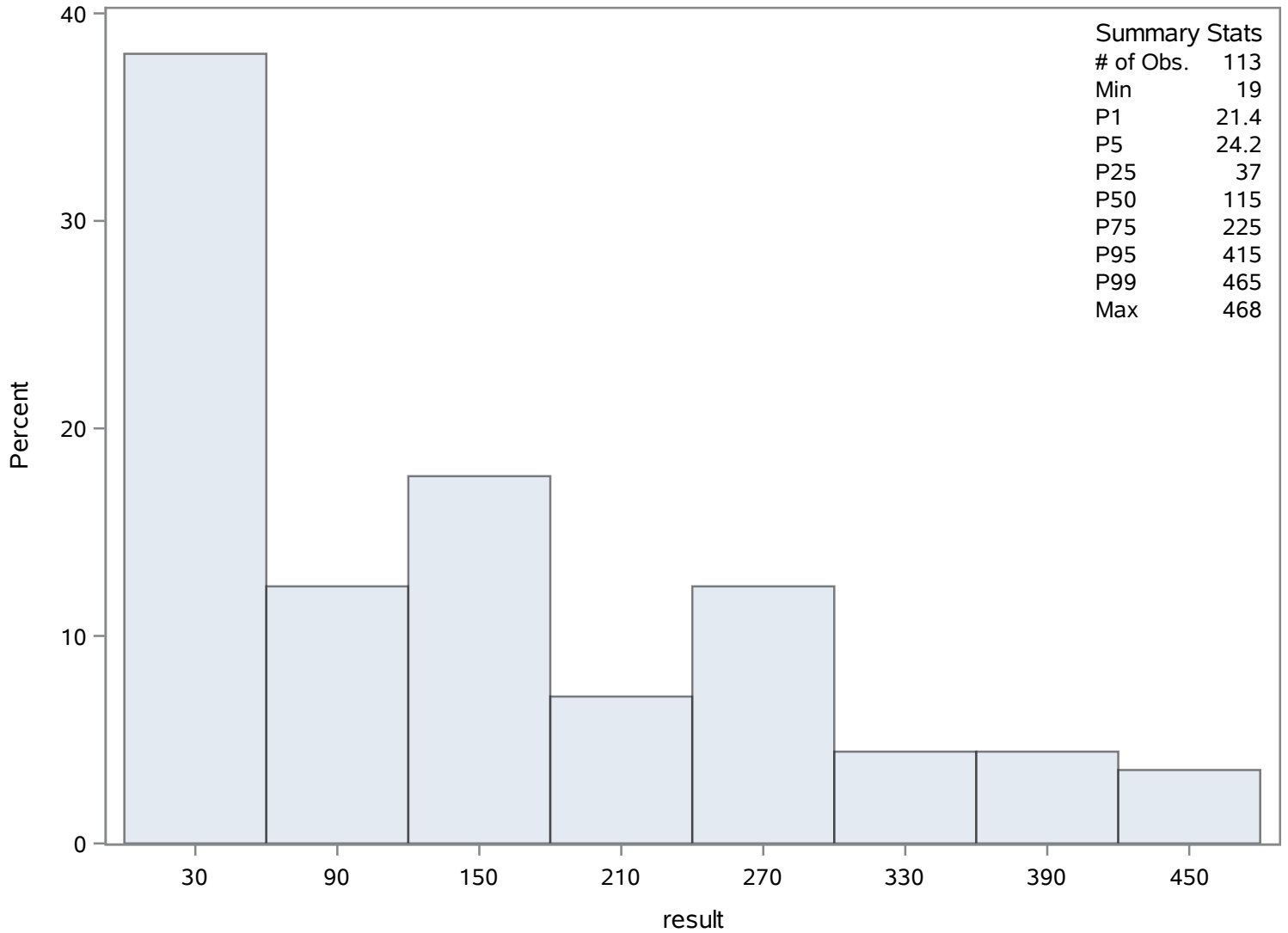
Source: Springs Data

Bete Jay Spring

Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Bete Jay Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	29	Sum Weights	29
Mean	9.34137931	Sum Observations	270.9
Std Deviation	13.2033415	Variance	174.328227
Skewness	2.80469641	Kurtosis	9.24767651
Uncorrected SS	7411.77	Corrected SS	4881.19034
Coeff Variation	141.342526	Std Error Mean	2.45179896

Basic Statistical Measures			
Location		Variability	
Mean	9.341379	Std Deviation	13.20334
Median	3.700000	Variance	174.32823
Mode	1.500000	Range	61.90000
		Interquartile Range	7.80000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.81001	Pr > t 	0.0007
Sign	M	14.5	Pr >= M 	<.0001
Signed Rank	S	217.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	62.9
99%	62.9
95%	30.0
90%	28.4
75% Q3	9.9
50% Median	3.7
25% Q1	2.1
10%	1.5
5%	1.5
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	556	19.6	558
1.5	569	24.5	564
1.5	550	28.4	552
1.5	549	30.0	570
1.6	555	62.9	557

Chassahowitzka River - Fixed Station

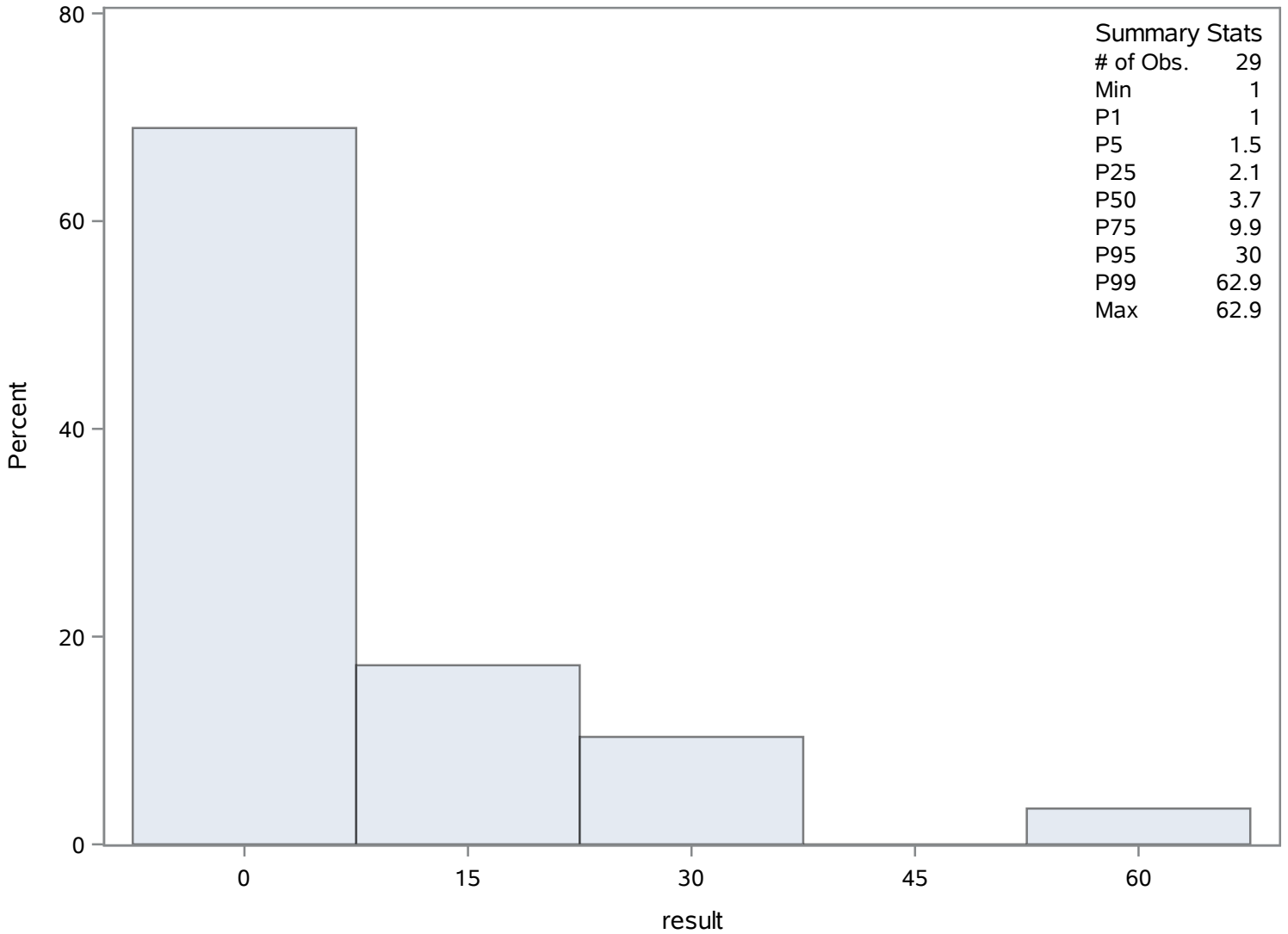
Source: Springs Data

Betee Jay Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	65	Sum Weights	65
Mean	1.81907692	Sum Observations	118.24
Std Deviation	1.00037606	Variance	1.00075226
Skewness	1.8367449	Kurtosis	5.70451774
Uncorrected SS	279.1358	Corrected SS	64.0481446
Coeff Variation	54.9936095	Std Error Mean	0.12408138

Basic Statistical Measures			
Location		Variability	
Mean	1.819077	Std Deviation	1.00038
Median	1.690000	Variance	1.00075
Mode	1.800000	Range	5.85000
		Interquartile Range	0.99000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.66035	Pr > t 	<.0001
Sign	M	32.5	Pr >= M 	<.0001
Signed Rank	S	1072.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.25
99%	6.25
95%	3.42
90%	3.05
75% Q3	2.17
50% Median	1.69
25% Q1	1.18
10%	0.78
5%	0.51
1%	0.40
0% Min	0.40

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Dissolved Oxygen (Total) mg/L

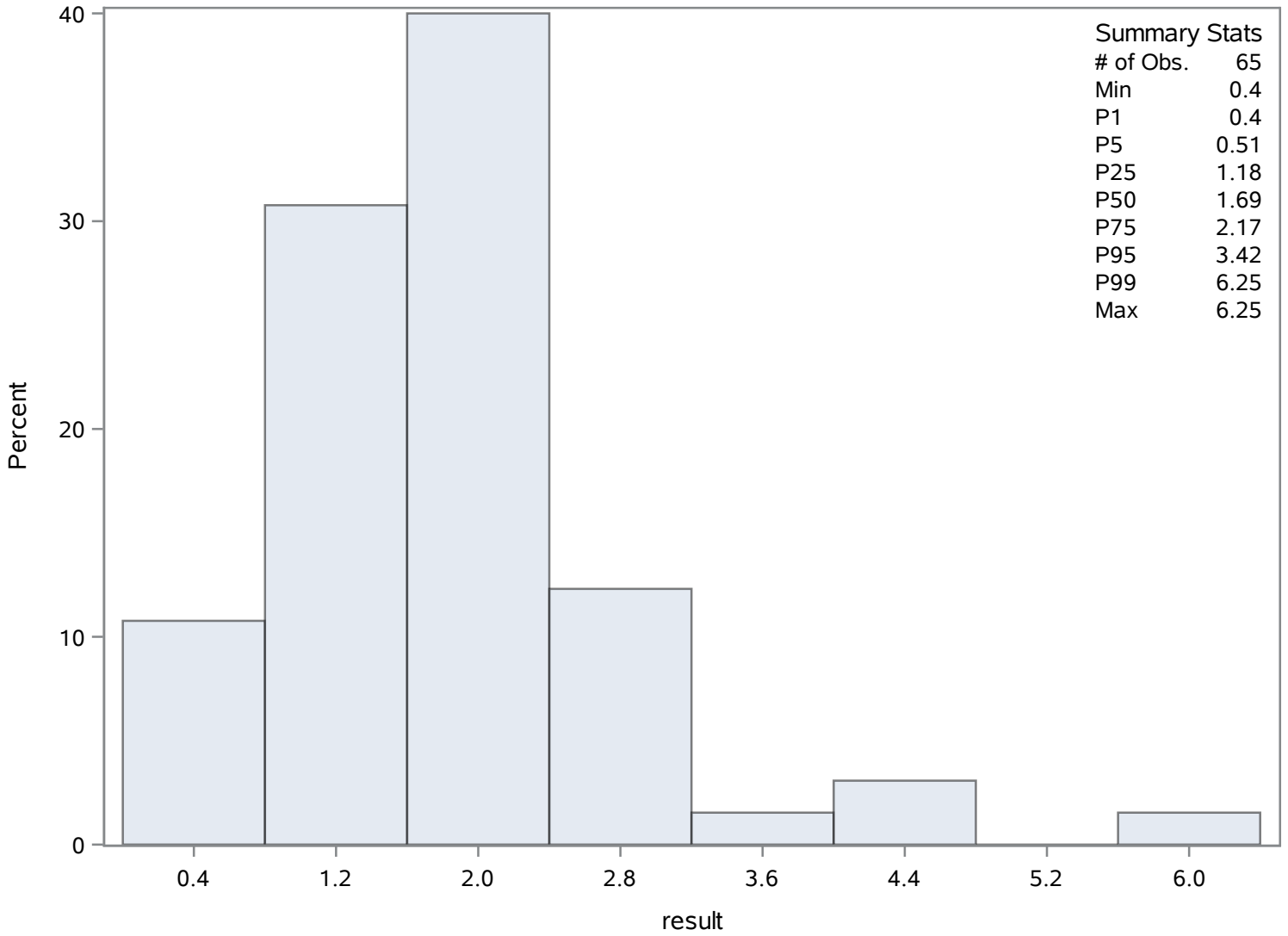
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	579	3.19	610
0.47	583	3.42	631
0.49	588	4.29	622
0.51	586	4.52	629
0.61	635	6.25	628

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	0.16146154	Sum Observations	14.693
Std Deviation	0.0204919	Variance	0.00041992
Skewness	-1.4491783	Kurtosis	7.4647634
Uncorrected SS	2.410147	Corrected SS	0.03779262
Coeff Variation	12.6915052	Std Error Mean	0.00214813

Basic Statistical Measures			
Location		Variability	
Mean	0.161462	Std Deviation	0.02049
Median	0.160000	Variance	0.0004199
Mode	0.160000	Range	0.16000
		Interquartile Range	0.02000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	75.1636	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.220
99%	0.220
95%	0.190
90%	0.180
75% Q3	0.170
50% Median	0.160
25% Q1	0.150
10%	0.140
5%	0.136
1%	0.060
0% Min	0.060

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.060	655	0.190	699
0.090	657	0.190	704
0.125	642	0.199	648
0.131	649	0.200	689
0.136	653	0.220	659

Chassahowitzka River - Fixed Station

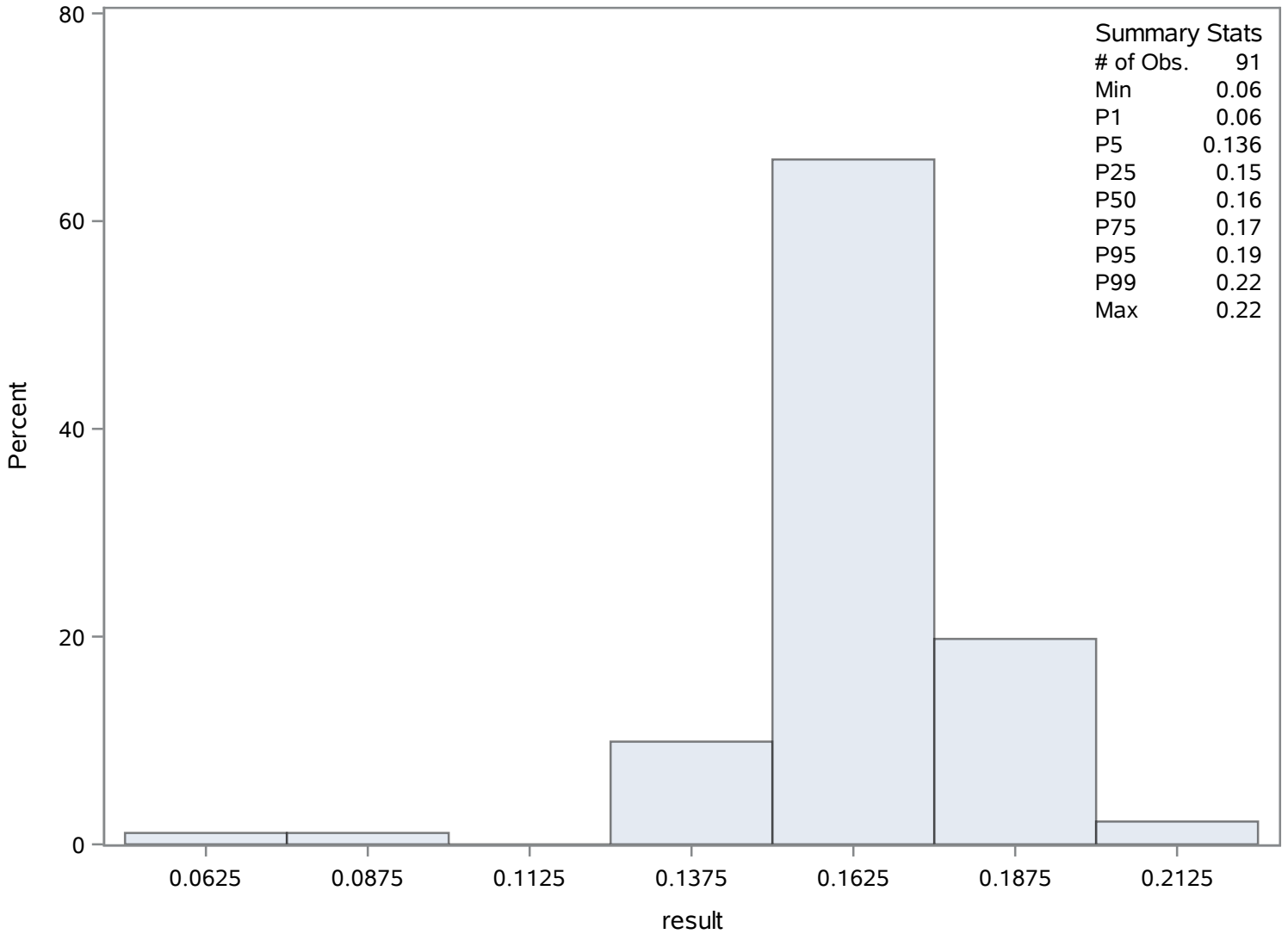
Source: Springs Data

Betee Jay Spring

Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	0.15417143	Sum Observations	5.396
Std Deviation	0.03424178	Variance	0.0011725
Skewness	-0.714656	Kurtosis	1.6866665
Uncorrected SS	0.871774	Corrected SS	0.03986497
Coeff Variation	22.2101951	Std Error Mean	0.00578792

Basic Statistical Measures			
Location		Variability	
Mean	0.154171	Std Deviation	0.03424
Median	0.157000	Variance	0.00117
Mode	0.150000	Range	0.16000
		Interquartile Range	0.03100

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.63678	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.220
99%	0.220
95%	0.220
90%	0.190
75% Q3	0.170
50% Median	0.157
25% Q1	0.139
10%	0.125
5%	0.070

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.060
0% Min	0.060

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.060	748	0.190	759
0.070	749	0.190	761
0.090	751	0.199	741
0.125	734	0.220	753
0.131	742	0.220	754

Chassahowitzka River - Fixed Station

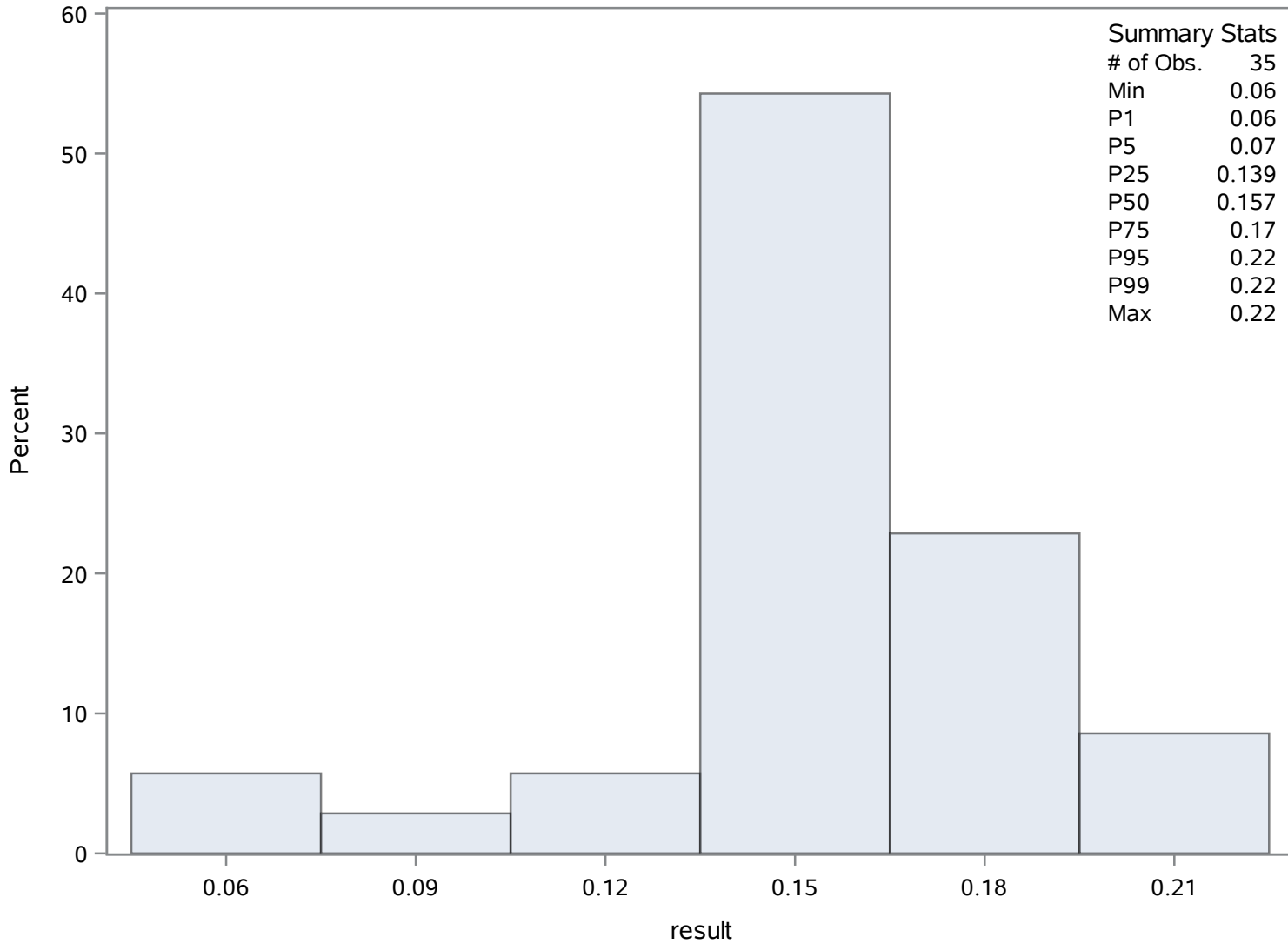
Source: Springs Data

Bete Jay Spring

Fluoride (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	113	Sum Weights	113
Mean	48.2561947	Sum Observations	5452.95
Std Deviation	175.191422	Variance	30692.0343
Skewness	9.99869304	Kurtosis	103.530022
Uncorrected SS	3700646.46	Corrected SS	3437507.84
Coeff Variation	363.044419	Std Error Mean	16.4806226

Basic Statistical Measures			
Location		Variability	
Mean	48.25619	Std Deviation	175.19142
Median	25.00000	Variance	30692
Mode	30.00000	Range	1853
		Interquartile Range	27.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	2.928057	Pr > t 	0.0041
Sign	M	56.5	Pr >= M 	<.0001
Signed Rank	S	3220.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1855.00
99%	318.00
95%	75.80
90%	70.90
75% Q3	40.00
50% Median	25.00
25% Q1	12.50
10%	5.60
5%	3.89
1%	2.50
0% Min	2.50

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.50	860	76.2	825
2.50	853	104.0	830
2.50	848	111.0	824
3.15	854	318.0	828
3.55	857	1855.0	768

Chassahowitzka River - Fixed Station

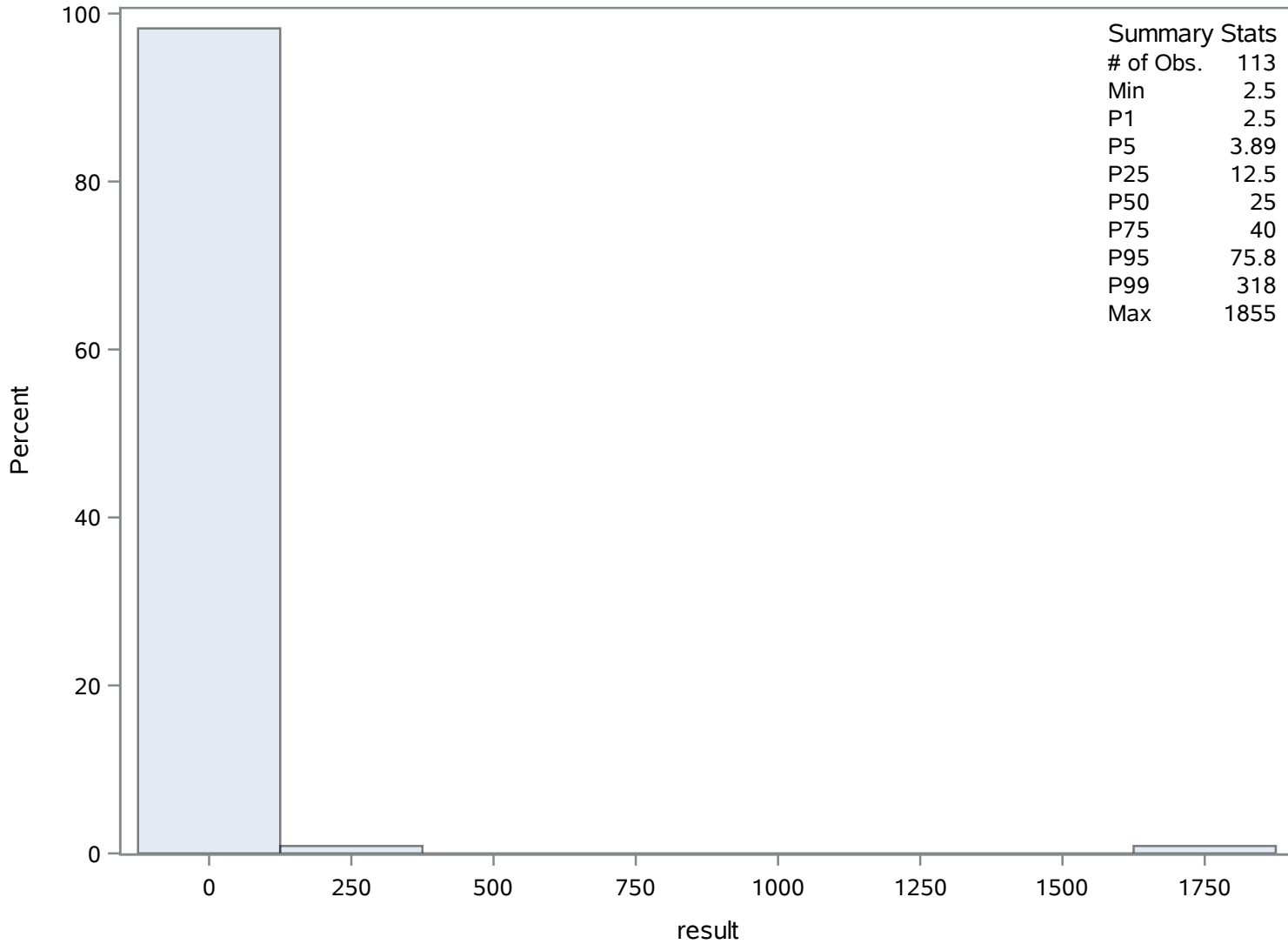
Source: Springs Data

Betee Jay Spring

Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	94	Sum Weights	94
Mean	19.893617	Sum Observations	1870
Std Deviation	7.93402796	Variance	62.9487997
Skewness	0.8438449	Kurtosis	-0.1210959
Uncorrected SS	43055.3022	Corrected SS	5854.23837
Coeff Variation	39.8822796	Std Error Mean	0.8183325

Basic Statistical Measures			
Location		Variability	
Mean	19.89362	Std Deviation	7.93403
Median	18.90000	Variance	62.94880
Mode	12.00000	Range	30.10000
		Interquartile Range	12.60000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.30994	Pr > t 	<.0001
Sign	M	47	Pr >= M 	<.0001
Signed Rank	S	2232.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	40.1
99%	40.1
95%	36.9
90%	30.3
75% Q3	25.4
50% Median	18.9
25% Q1	12.8
10%	11.6
5%	11.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	10.0
0% Min	10.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.0	885	36.9	934
10.5	893	38.3	947
10.6	895	38.6	906
10.6	894	38.6	907
11.0	881	40.1	903

Chassahowitzka River - Fixed Station

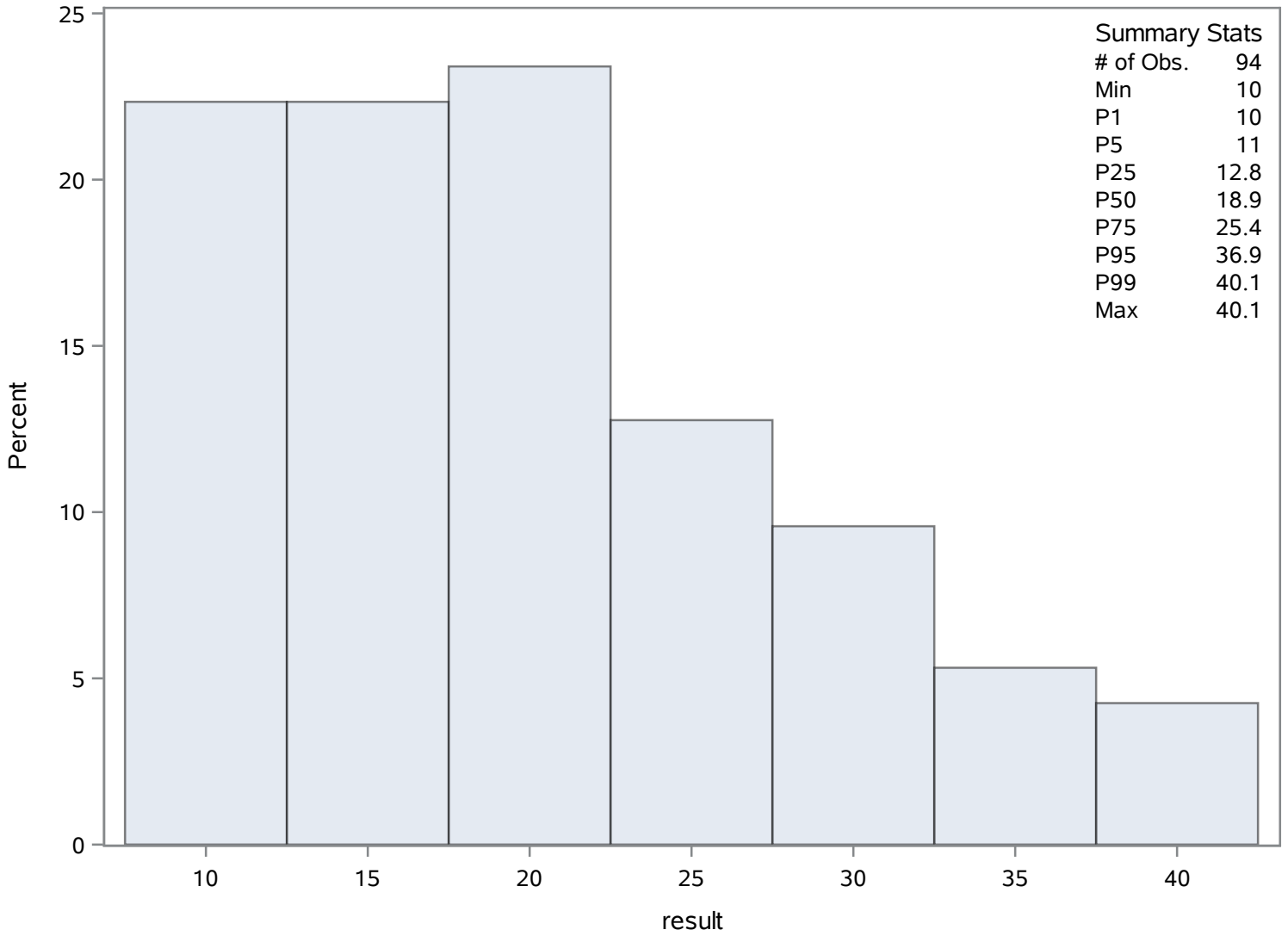
Source: Springs Data

Bete Jay Spring

Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	22	Sum Weights	22
Mean	16.4231818	Sum Observations	361.31
Std Deviation	6.69977355	Variance	44.8869656
Skewness	0.99608237	Kurtosis	-0.4196224
Uncorrected SS	6876.4861	Corrected SS	942.626277
Coeff Variation	40.7946135	Std Error Mean	1.42839652

Basic Statistical Measures			
Location		Variability	
Mean	16.42318	Std Deviation	6.69977
Median	12.65000	Variance	44.88697
Mode	12.00000	Range	20.10000
		Interquartile Range	7.60000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.49763	Pr > t 	<.0001
Sign	M	11	Pr >= M 	<.0001
Signed Rank	S	126.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.10
99%	30.10
95%	28.20
90%	28.00
75% Q3	19.00
50% Median	12.65
25% Q1	11.40
10%	10.60
5%	10.50
1%	10.00
0% Min	10.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.0	981	22.3	987
10.5	989	27.5	988
10.6	991	28.0	986
10.6	990	28.2	996
11.0	976	30.1	994

Chassahowitzka River - Fixed Station

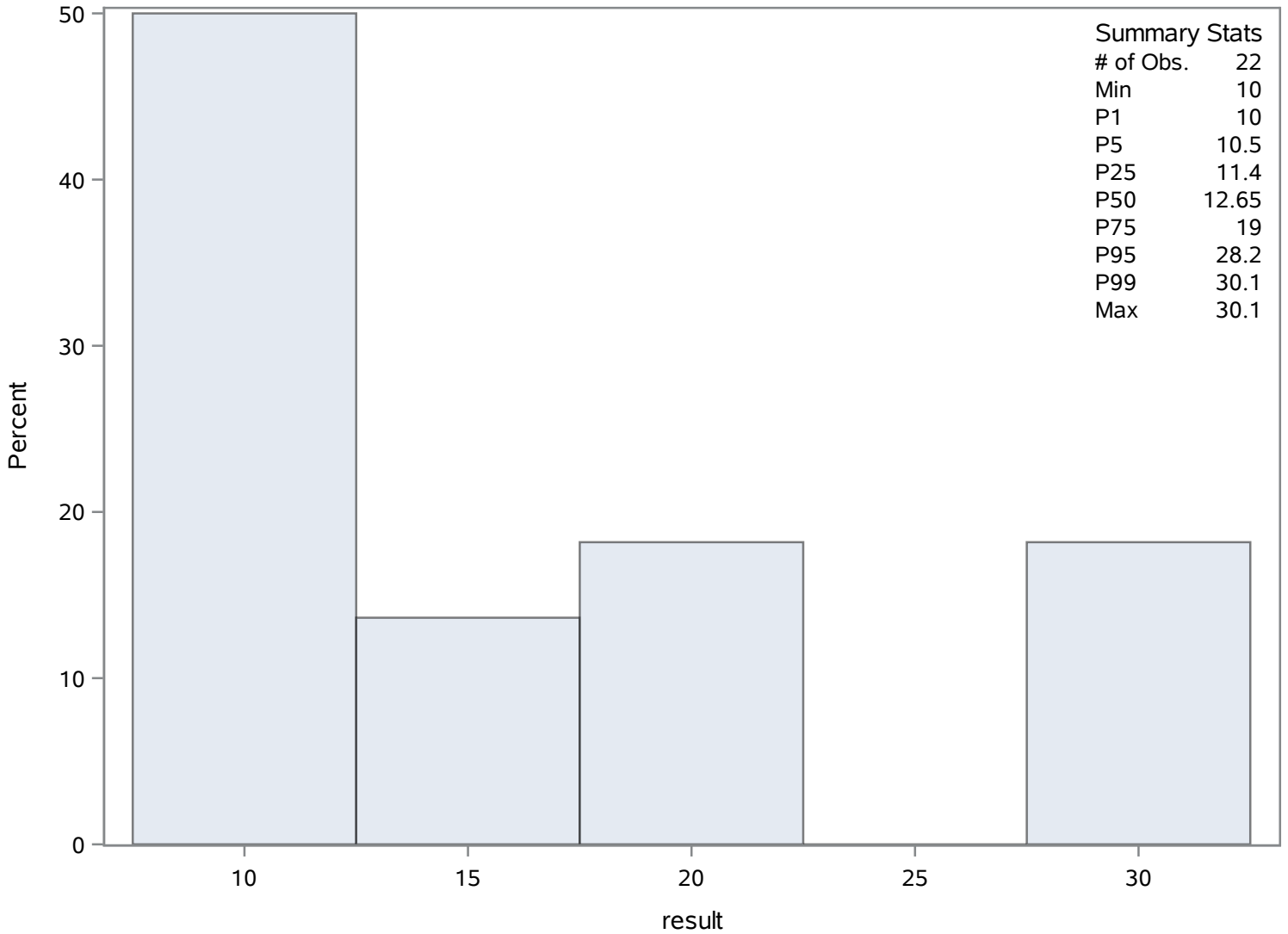
Source: Springs Data

Betee Jay Spring

Magnesium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	40	Sum Weights	40
Mean	0.295455	Sum Observations	11.8182
Std Deviation	0.05681419	Variance	0.00322785
Skewness	-0.2257615	Kurtosis	-1.0679736
Uncorrected SS	3.6176325	Corrected SS	0.12588622
Coeff Variation	19.2293873	Std Error Mean	0.00898311

Basic Statistical Measures			
Location		Variability	
Mean	0.295455	Std Deviation	0.05681
Median	0.296500	Variance	0.00323
Mode	0.212000	Range	0.19200
		Interquartile Range	0.09175

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.89005	Pr > t 	<.0001
Sign	M	20	Pr >= M 	<.0001
Signed Rank	S	410	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.38600
99%	0.38600
95%	0.38070
90%	0.36750
75% Q3	0.33925
50% Median	0.29650
25% Q1	0.24750
10%	0.21200
5%	0.20150

Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.19400
0% Min	0.19400

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.194	1010	0.3650	1027
0.196	997	0.3700	1025
0.207	1008	0.3800	1013
0.212	1022	0.3814	1034
0.212	1011	0.3860	1024

Chassahowitzka River - Fixed Station

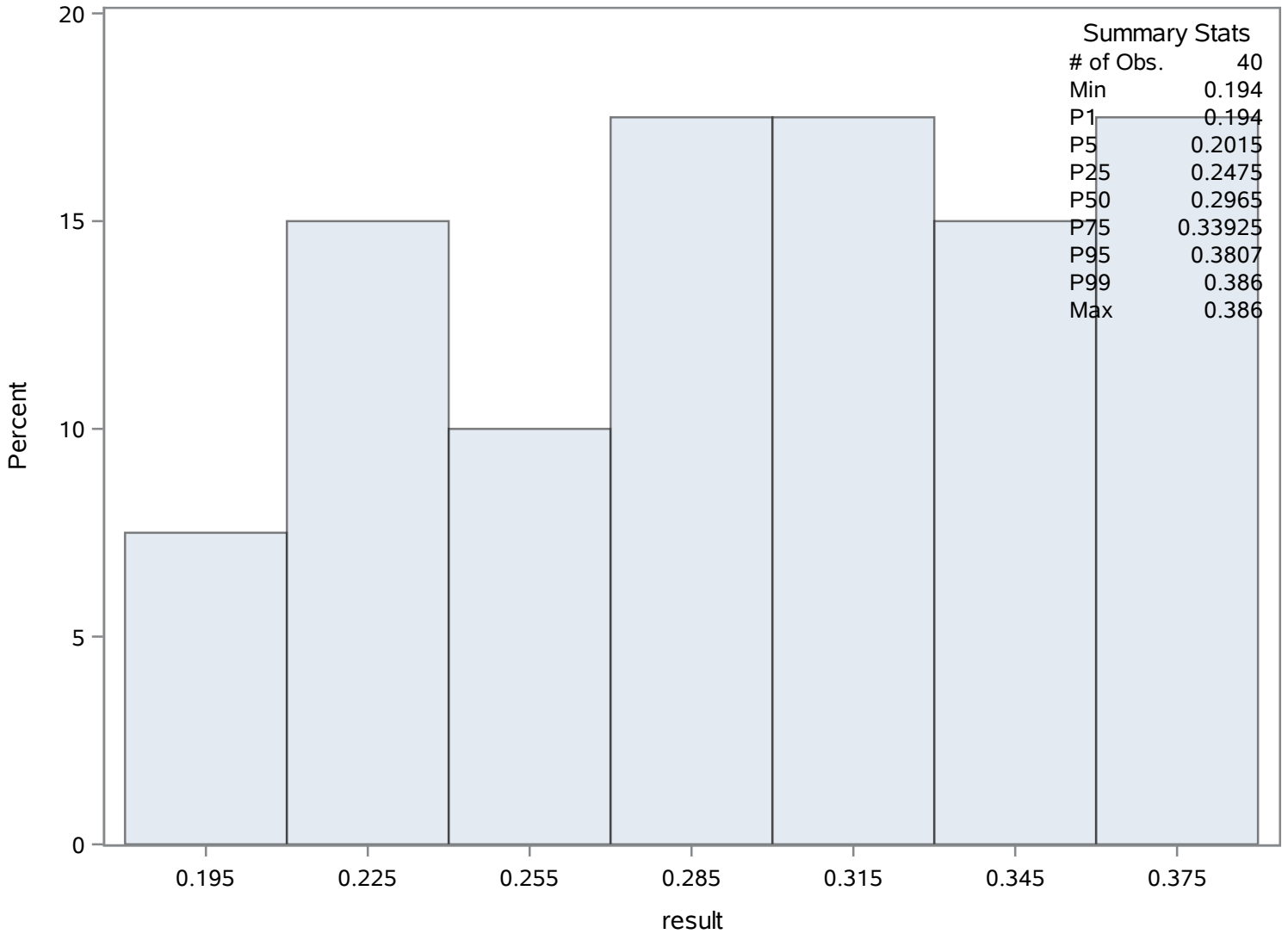
Source: Springs Data

Bete Jay Spring

Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	0.30677941	Sum Observations	20.861
Std Deviation	0.08747695	Variance	0.00765222
Skewness	-1.117398	Kurtosis	2.35646549
Uncorrected SS	6.91242386	Corrected SS	0.51269855
Coeff Variation	28.5146098	Std Error Mean	0.01060814

Basic Statistical Measures			
Location		Variability	
Mean	0.306779	Std Deviation	0.08748
Median	0.321500	Variance	0.00765
Mode	0.228000	Range	0.43800
		Interquartile Range	0.13100

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.91925	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.4400
99%	0.4400
95%	0.4200
90%	0.4110
75% Q3	0.3715
50% Median	0.3215
25% Q1	0.2405
10%	0.2114
5%	0.1970
1%	0.0020
0% Min	0.0020

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

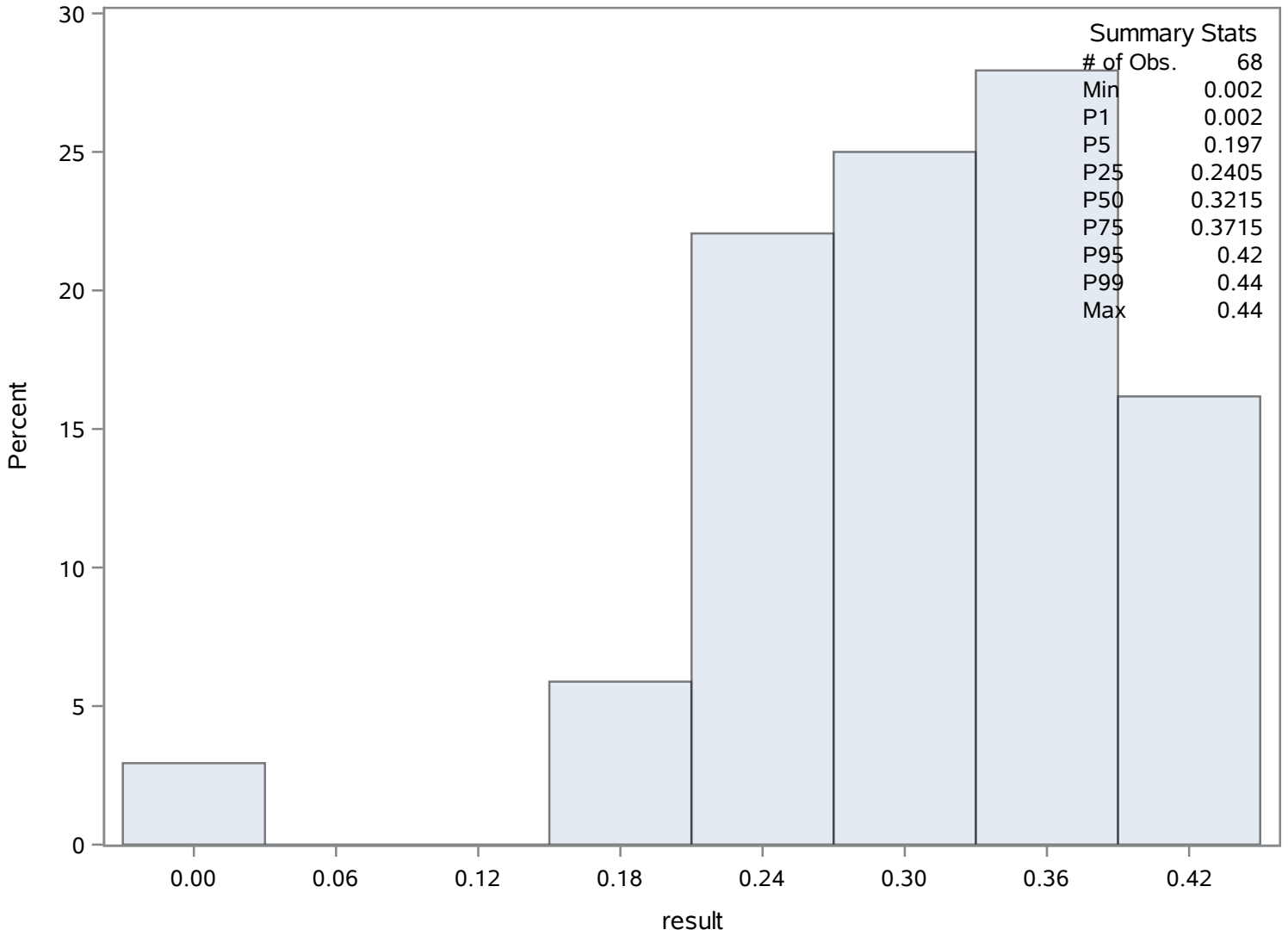
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	1037	0.416	1100
0.007	1103	0.420	1096
0.194	1055	0.424	1094
0.197	1039	0.428	1093
0.197	1038	0.440	1101

Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	0.42554286	Sum Observations	14.894
Std Deviation	0.07201321	Variance	0.0051859
Skewness	-1.0423401	Kurtosis	0.87308251
Uncorrected SS	6.514356	Corrected SS	0.17632069
Coeff Variation	16.9226694	Std Error Mean	0.01217245

Basic Statistical Measures			
Location		Variability	
Mean	0.425543	Std Deviation	0.07201
Median	0.442000	Variance	0.00519
Mode	0.462000	Range	0.31000
		Interquartile Range	0.09900

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	34.9595	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.522
99%	0.522
95%	0.509
90%	0.503
75% Q3	0.478
50% Median	0.442
25% Q1	0.379
10%	0.333
5%	0.280
1%	0.212
0% Min	0.212

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.212	1108	0.499	1139
0.280	1106	0.503	1138
0.330	1120	0.504	1136
0.333	1109	0.509	1132
0.338	1105	0.522	1119

Chassahowitzka River - Fixed Station

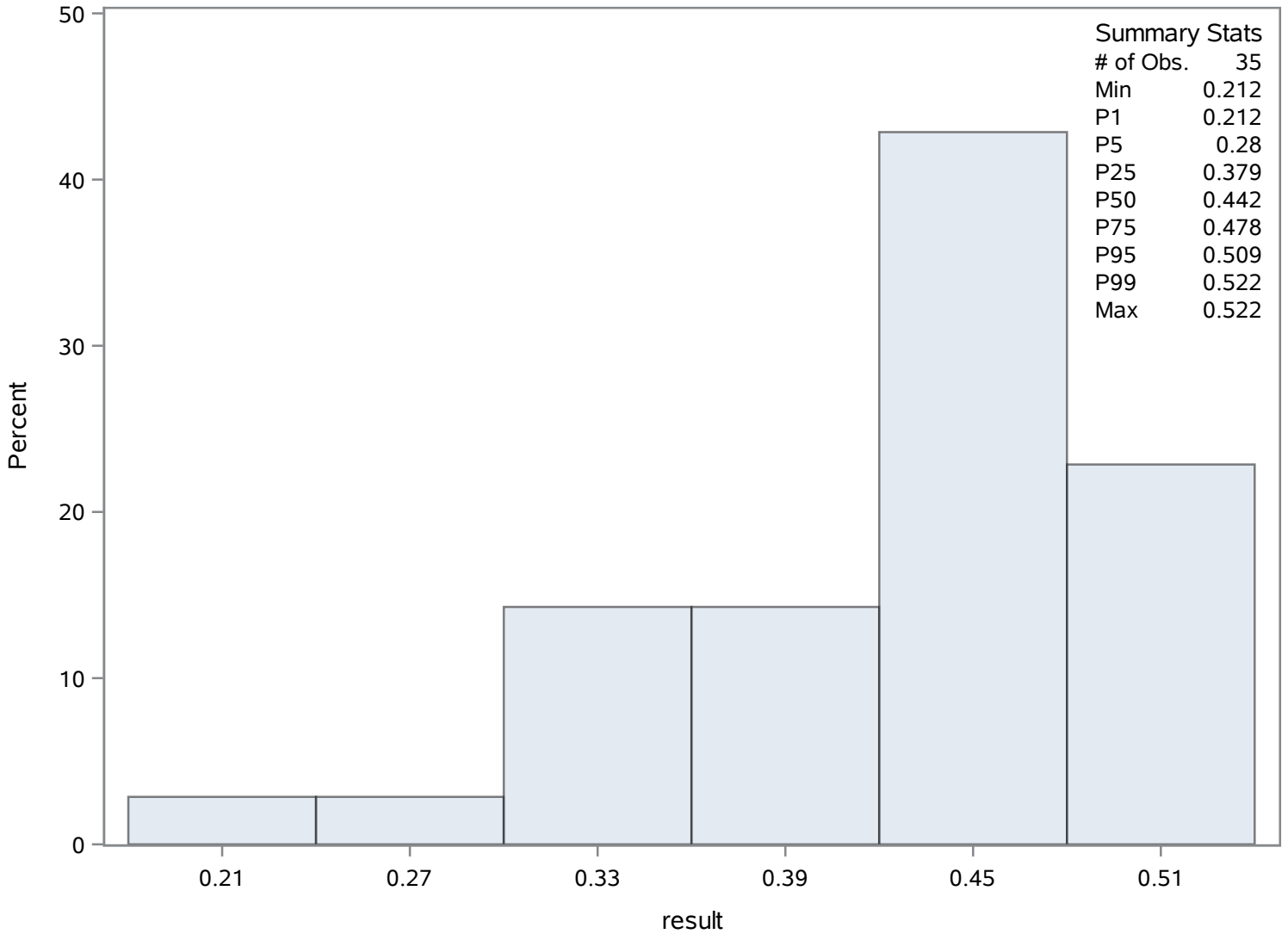
Source: Springs Data

Betee Jay Spring

Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	0.00530577	Sum Observations	0.2759
Std Deviation	0.00226589	Variance	5.13428E-6
Skewness	0.99314	Kurtosis	1.24104282
Uncorrected SS	0.00172571	Corrected SS	0.00026185
Coeff Variation	42.7062471	Std Error Mean	0.00031422

Basic Statistical Measures			
Location		Variability	
Mean	0.005306	Std Deviation	0.00227
Median	0.005000	Variance	5.13428E-6
Mode	0.005000	Range	0.01040
		Interquartile Range	0.0005000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.88536	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0114
99%	0.0114
95%	0.0100
90%	0.0100
75% Q3	0.0055
50% Median	0.0050
25% Q1	0.0050
10%	0.0030
5%	0.0025
1%	0.0010
0% Min	0.0010

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0010	1143	0.0100	1147
0.0010	1141	0.0100	1149
0.0025	1164	0.0100	1150
0.0025	1162	0.0100	1151
0.0025	1161	0.0114	1163

Chassahowitzka River - Fixed Station

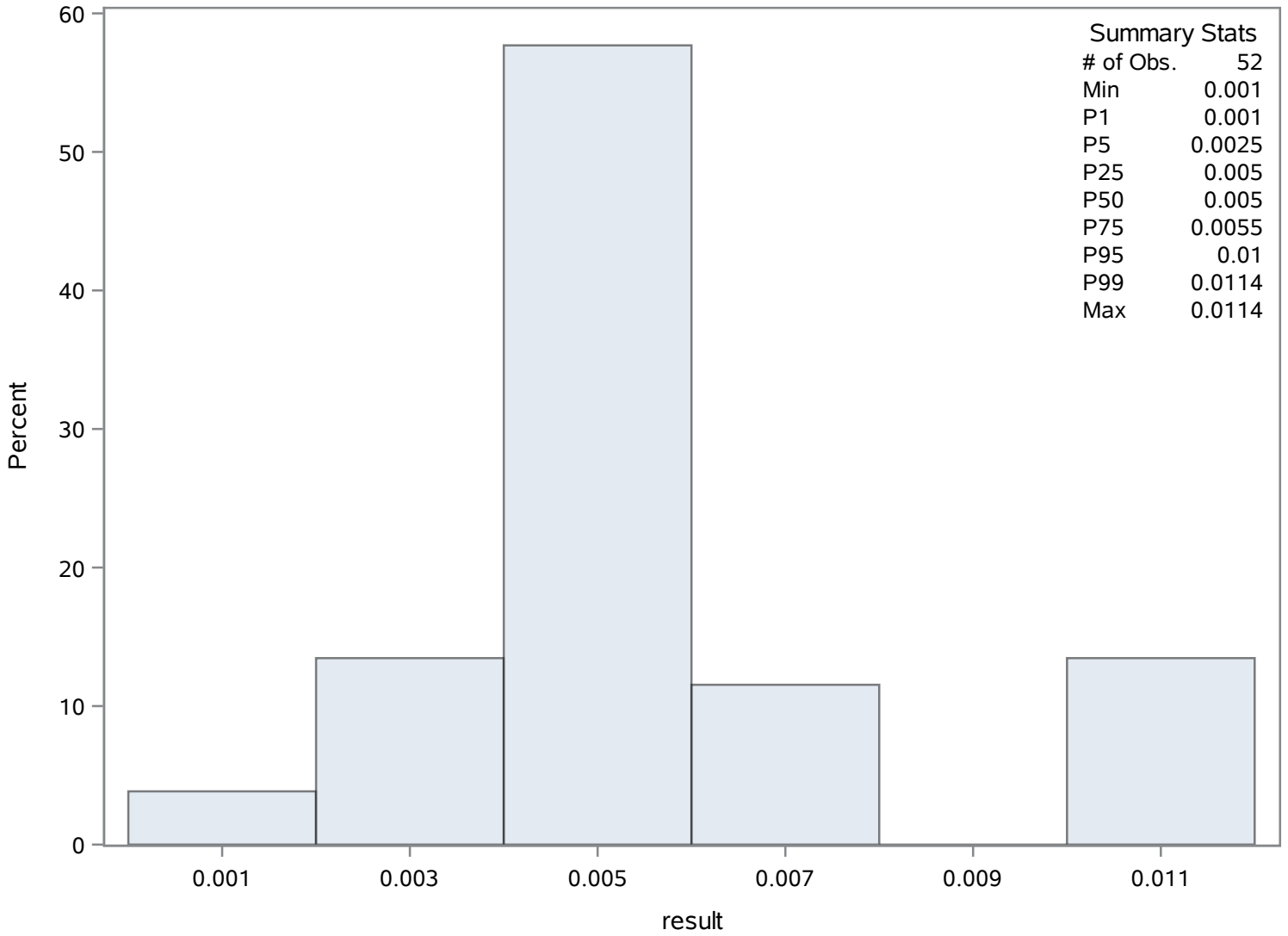
Source: Springs Data

Betee Jay Spring

Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	42	Sum Weights	42
Mean	0.00502381	Sum Observations	0.211
Std Deviation	0.00252536	Variance	6.37747E-6
Skewness	1.51630564	Kurtosis	1.16234257
Uncorrected SS	0.0013215	Corrected SS	0.00026148
Coeff Variation	50.2679276	Std Error Mean	0.00038967

Basic Statistical Measures			
Location		Variability	
Mean	0.005024	Std Deviation	0.00253
Median	0.004000	Variance	6.37747E-6
Mode	0.004000	Range	0.00950
		Interquartile Range	0.00100

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.8924	Pr > t 	<.0001
Sign	M	21	Pr >= M 	<.0001
Signed Rank	S	451.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0120
99%	0.0120
95%	0.0100
90%	0.0100
75% Q3	0.0050
50% Median	0.0040
25% Q1	0.0040
10%	0.0025
5%	0.0025
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	1212	0.010	1194
0.0025	1211	0.010	1195
0.0025	1210	0.010	1196
0.0025	1208	0.010	1197
0.0025	1207	0.012	1209

Chassahowitzka River - Fixed Station

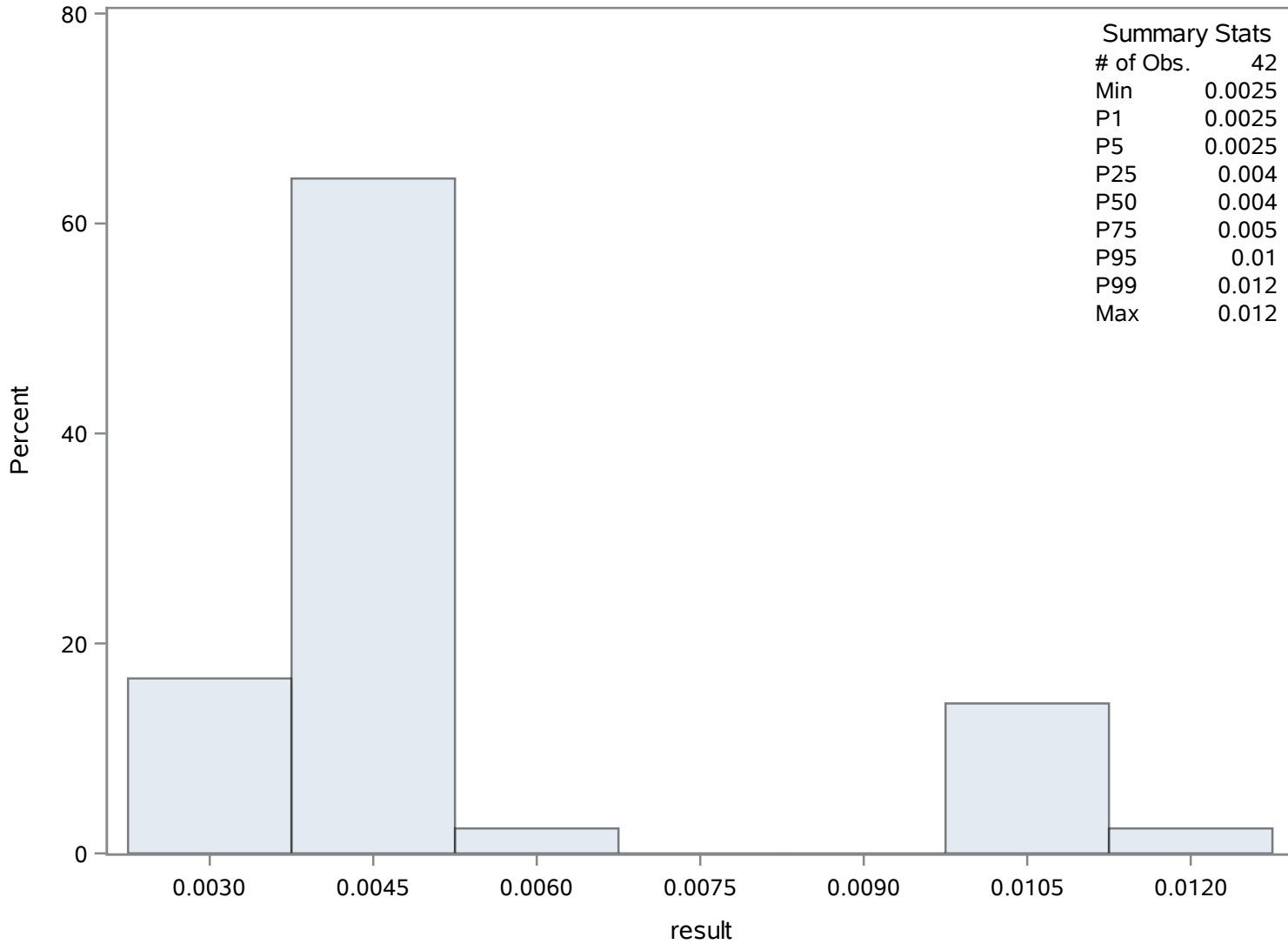
Source: Springs Data

Betee Jay Spring

Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrogen- Total (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	0.48133333	Sum Observations	10.108
Std Deviation	0.09866779	Variance	0.00973533
Skewness	2.14639203	Kurtosis	5.73938084
Uncorrected SS	5.060024	Corrected SS	0.19470667
Coeff Variation	20.4988489	Std Error Mean	0.02153108

Basic Statistical Measures			
Location		Variability	
Mean	0.481333	Std Deviation	0.09867
Median	0.450000	Variance	0.00974
Mode	0.440000	Range	0.46000
		Interquartile Range	0.07000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	22.35528	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.81
99%	0.81
95%	0.65
90%	0.58
75% Q3	0.50
50% Median	0.45
25% Q1	0.43
10%	0.41
5%	0.41
1%	0.35
0% Min	0.35

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrogen- Total (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.350	1234	0.50	1254
0.410	1242	0.51	1241
0.410	1239	0.58	1253
0.418	1236	0.65	1249
0.420	1251	0.81	1235

Chassahowitzka River - Fixed Station

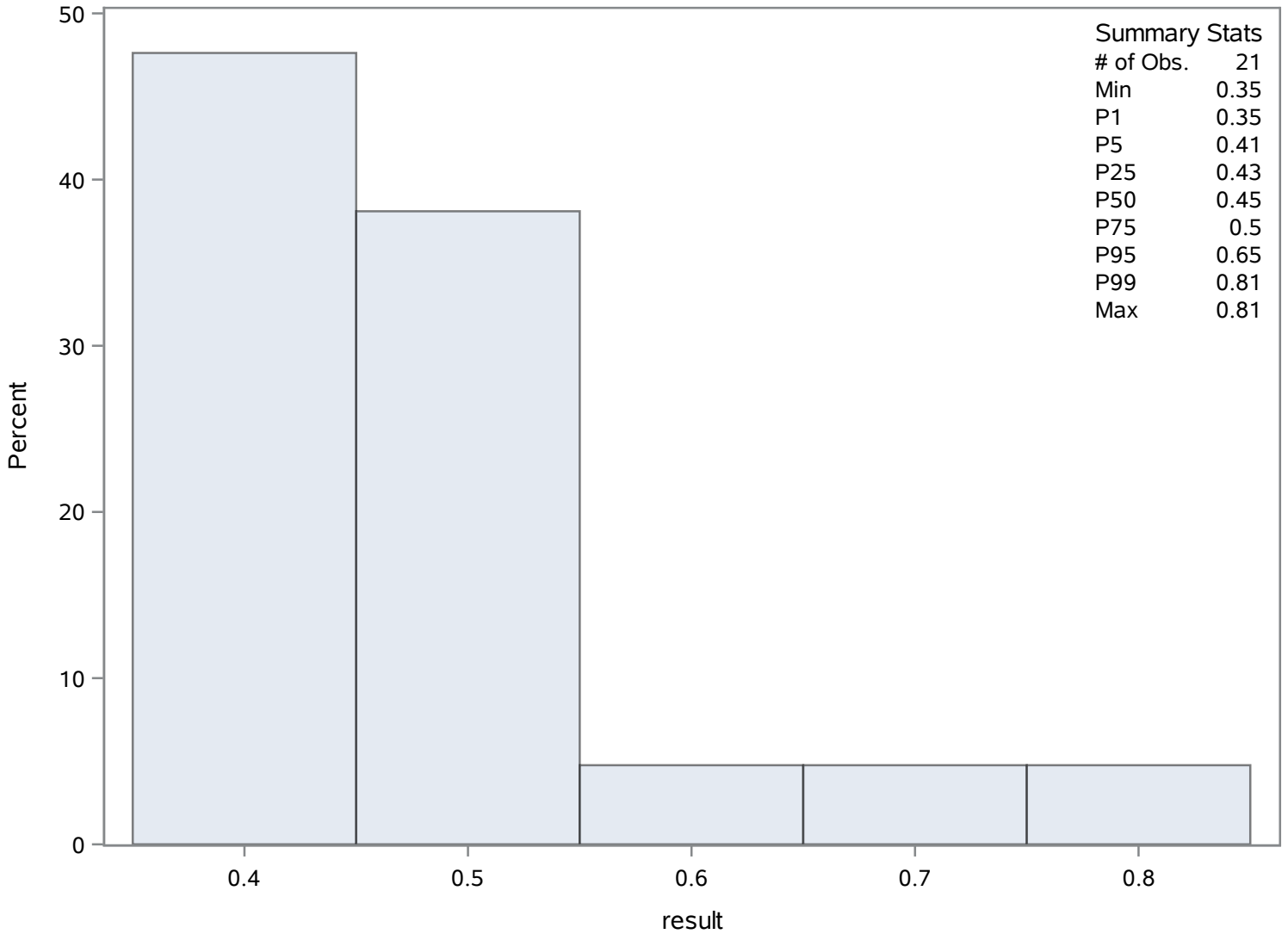
Source: Springs Data

Betee Jay Spring

Nitrogen- Total (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	0.48736418	Sum Observations	32.6534
Std Deviation	0.08247444	Variance	0.00680203
Skewness	1.06364525	Kurtosis	4.16317176
Uncorrected SS	16.3630317	Corrected SS	0.44893421
Coeff Variation	16.922549	Std Error Mean	0.01007586

Basic Statistical Measures			
Location		Variability	
Mean	0.487364	Std Deviation	0.08247
Median	0.490000	Variance	0.00680
Mode	0.490000	Range	0.54000
		Interquartile Range	0.08000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	48.3695	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.81
99%	0.81
95%	0.60
90%	0.56
75% Q3	0.52
50% Median	0.49
25% Q1	0.44
10%	0.40
5%	0.38
1%	0.27
0% Min	0.27

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrogen- Total (Total) mg/L

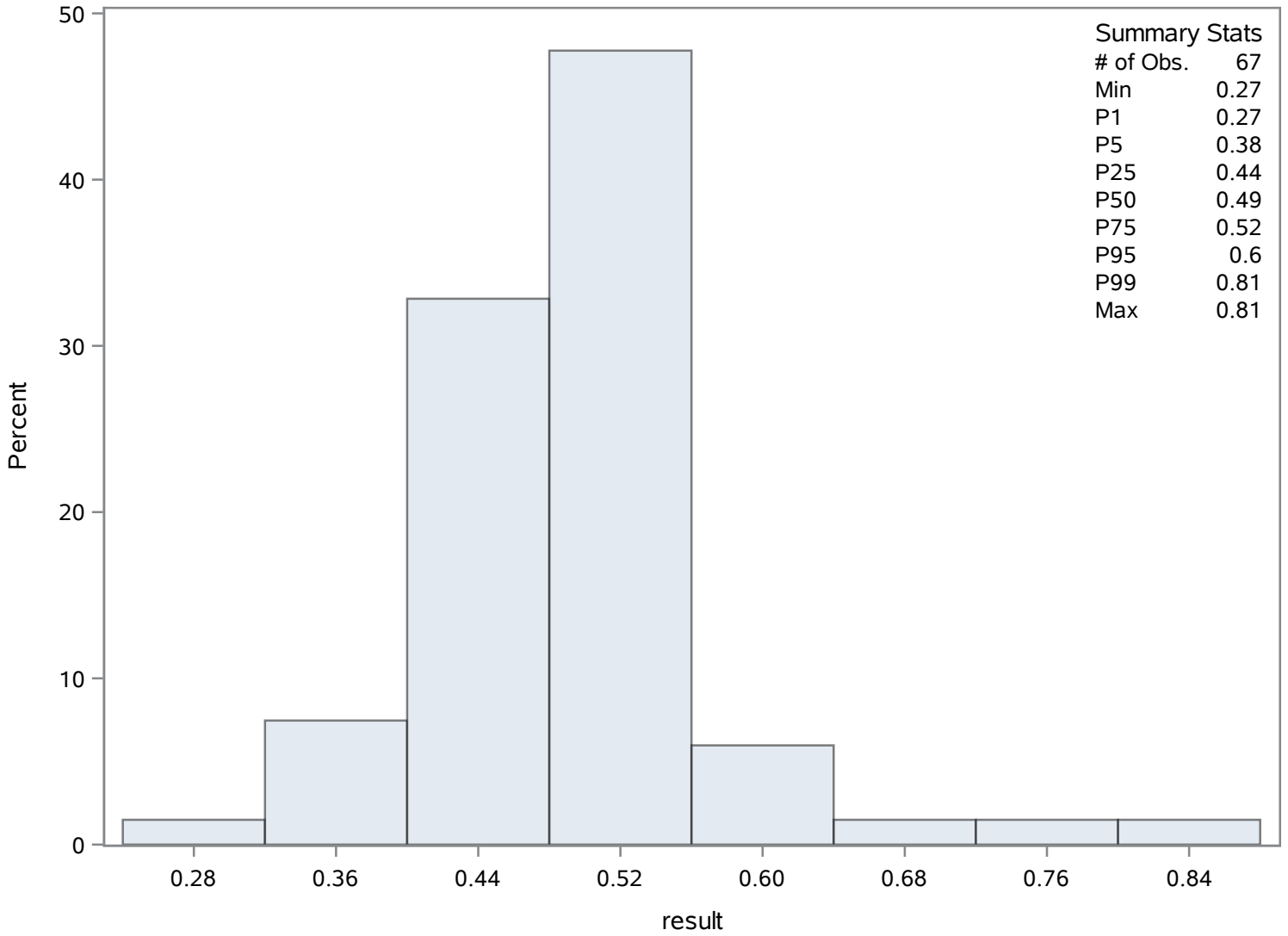
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2700	1265	0.561	1279
0.3400	1266	0.600	1260
0.3500	1275	0.700	1302
0.3800	1255	0.730	1272
0.3874	1287	0.810	1276

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	114	Sum Weights	114
Mean	0.01588947	Sum Observations	1.8114
Std Deviation	0.00690924	Variance	0.00004774
Skewness	2.82371336	Kurtosis	10.4593146
Uncorrected SS	0.03417654	Corrected SS	0.00539435
Coeff Variation	43.4831223	Std Error Mean	0.00064711

Basic Statistical Measures			
Location		Variability	
Mean	0.015889	Std Deviation	0.00691
Median	0.015000	Variance	0.0000477
Mode	0.010000	Range	0.04300
		Interquartile Range	0.00500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.55453	Pr > t 	<.0001
Sign	M	57	Pr >= M 	<.0001
Signed Rank	S	3277.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.048
99%	0.048
95%	0.025
90%	0.021
75% Q3	0.017
50% Median	0.015
25% Q1	0.012
10%	0.010
5%	0.010
1%	0.006
0% Min	0.005

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Orthophosphate (P) (Dissolved) mg/L

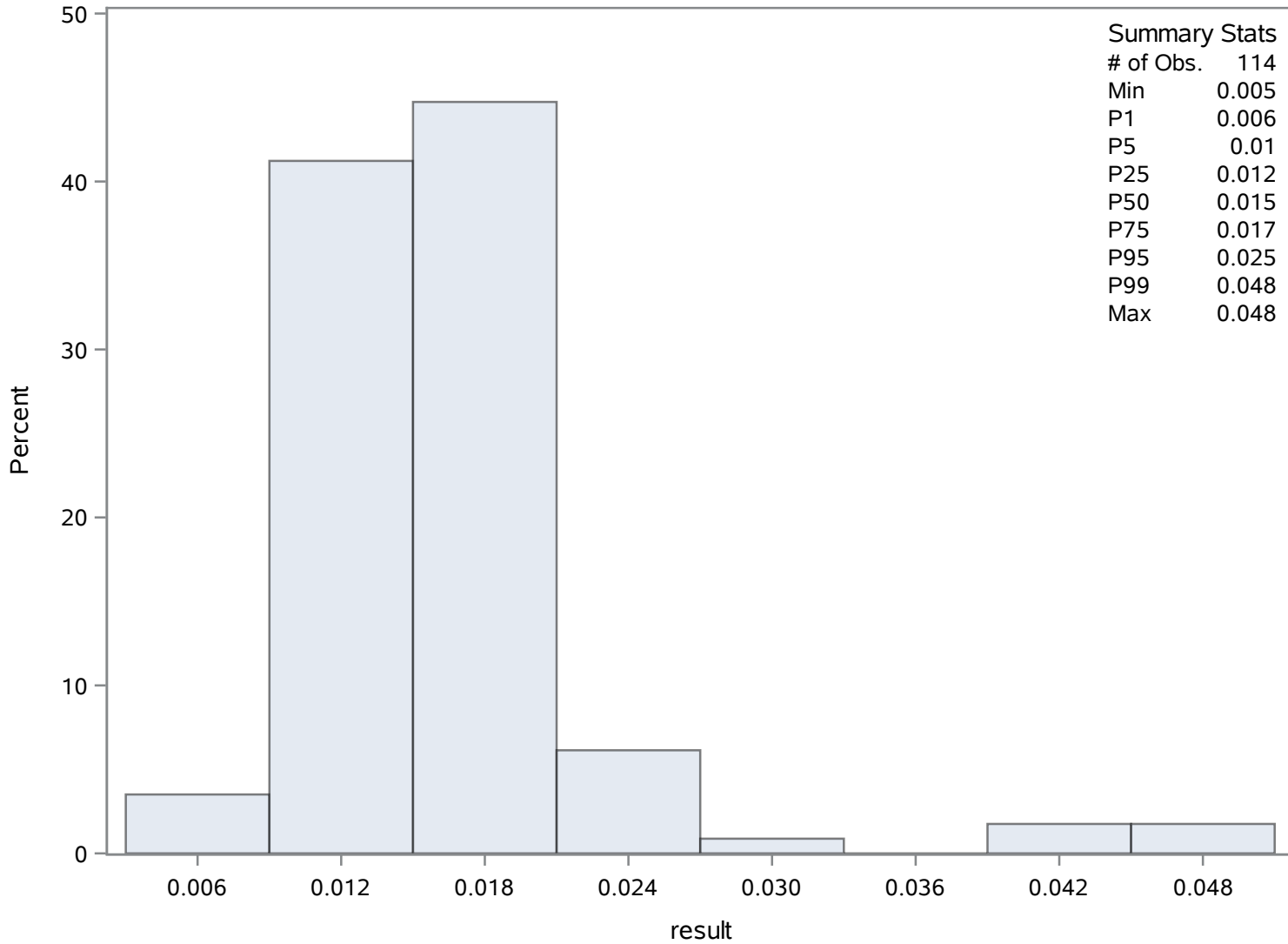
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	1401	0.027	1322
0.006	1335	0.043	1337
0.007	1325	0.043	1338
0.008	1330	0.048	1323
0.010	1390	0.048	1324

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	116	Sum Weights	116
Mean	0.01877845	Sum Observations	2.1783
Std Deviation	0.01065283	Variance	0.00011348
Skewness	4.92151594	Kurtosis	35.7017647
Uncorrected SS	0.05395561	Corrected SS	0.01305052
Coeff Variation	56.7290122	Std Error Mean	0.00098909

Basic Statistical Measures			
Location		Variability	
Mean	0.018778	Std Deviation	0.01065
Median	0.016150	Variance	0.0001135
Mode	0.016000	Range	0.10200
		Interquartile Range	0.00600

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.98558	Pr > t 	<.0001
Sign	M	58	Pr >= M 	<.0001
Signed Rank	S	3393	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.10400
99%	0.04600
95%	0.03200
90%	0.02800
75% Q3	0.02000
50% Median	0.01615
25% Q1	0.01400
10%	0.01100
5%	0.01000
1%	0.00600
0% Min	0.00200

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Phosphorus- Total (Total) mg/L

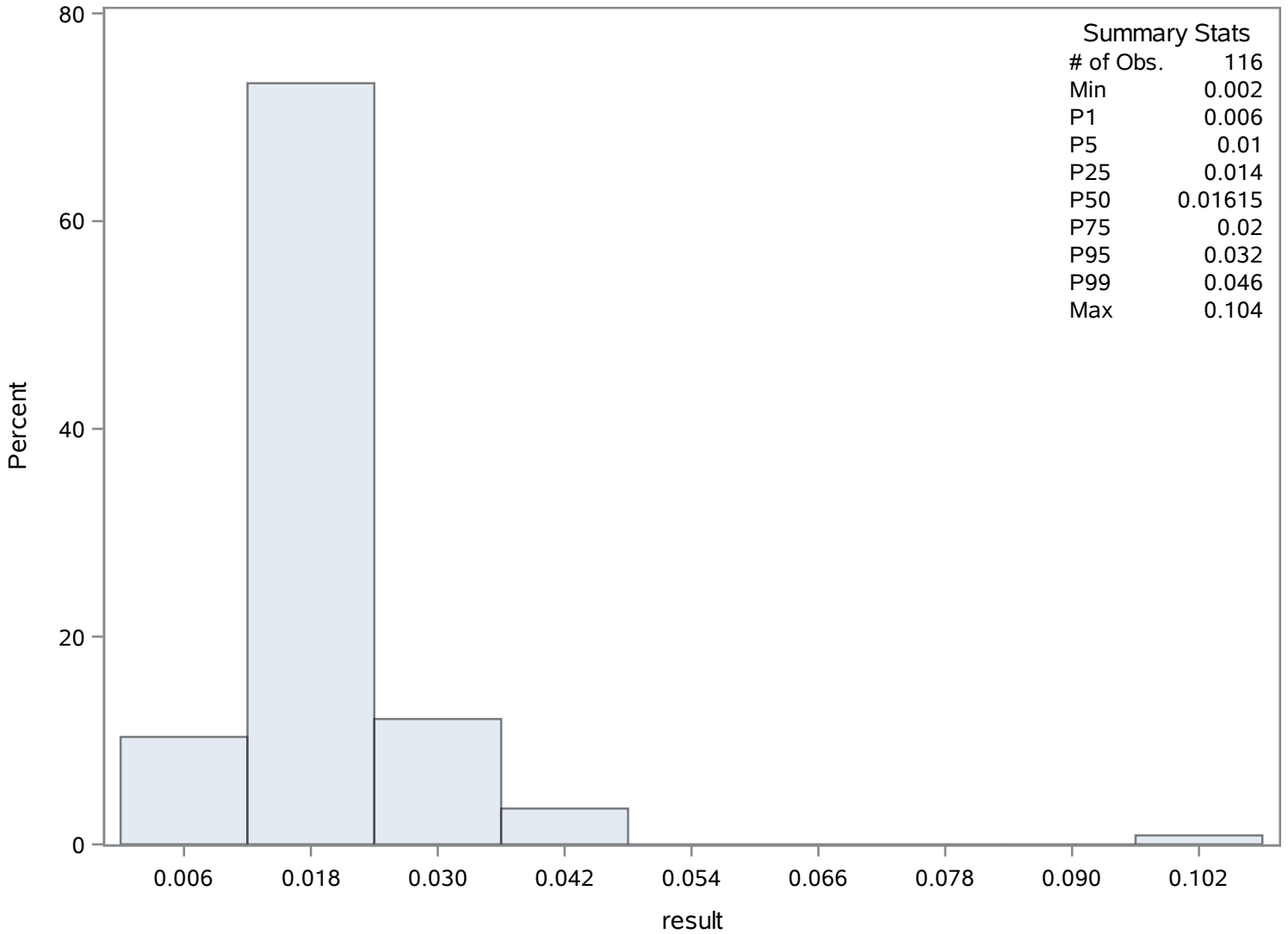
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	1450	0.039	1456
0.006	1436	0.039	1457
0.010	1492	0.046	1452
0.010	1484	0.046	1453
0.010	1469	0.104	1475

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	95	Sum Weights	95
Mean	3.2308	Sum Observations	306.926
Std Deviation	2.50431839	Variance	6.27161059
Skewness	0.87800016	Kurtosis	-0.1196031
Uncorrected SS	1581.14792	Corrected SS	589.531395
Coeff Variation	77.5138785	Std Error Mean	0.25693765

Basic Statistical Measures			
Location		Variability	
Mean	3.230800	Std Deviation	2.50432
Median	2.730000	Variance	6.27161
Mode	4.070000	Range	9.29000
		Interquartile Range	3.76000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.57426	Pr > t 	<.0001
Sign	M	47.5	Pr >= M 	<.0001
Signed Rank	S	2280	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.69
99%	9.69
95%	8.31
90%	7.55
75% Q3	4.91
50% Median	2.73
25% Q1	1.15
10%	0.60
5%	0.48
1%	0.40
0% Min	0.40

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	1556	8.31	1606
0.41	1564	8.76	1574
0.44	1565	8.86	1619
0.47	1599	9.64	1578
0.48	1597	9.69	1579

Chassahowitzka River - Fixed Station

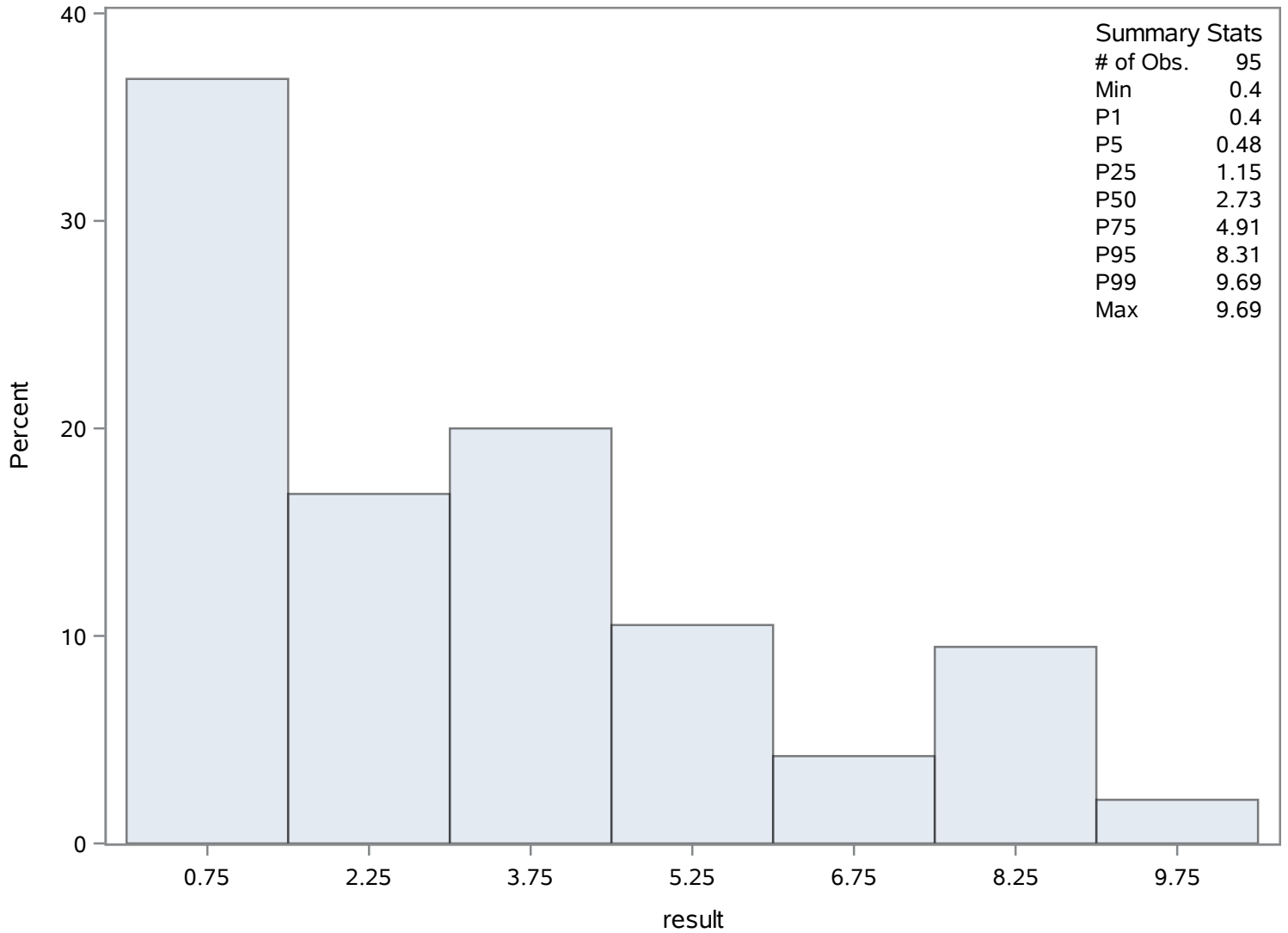
Source: Springs Data

Bete Jay Spring

Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	2.244	Sum Observations	56.1
Std Deviation	2.3160095	Variance	5.3639
Skewness	1.37963845	Kurtosis	1.13180797
Uncorrected SS	254.622	Corrected SS	128.7336
Coeff Variation	103.208979	Std Error Mean	0.4632019

Basic Statistical Measures			
Location		Variability	
Mean	2.244000	Std Deviation	2.31601
Median	1.070000	Variance	5.36390
Mode	0.400000	Range	8.36000
		Interquartile Range	2.70000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.84454	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.76
99%	8.76
95%	6.00
90%	5.70
75% Q3	3.30
50% Median	1.07
25% Q1	0.60
10%	0.41
5%	0.40

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.40
0% Min	0.40

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	1653	5.27	1667
0.40	1647	5.43	1668
0.41	1661	5.70	1660
0.44	1663	6.00	1658
0.44	1662	8.76	1671

Chassahowitzka River - Fixed Station

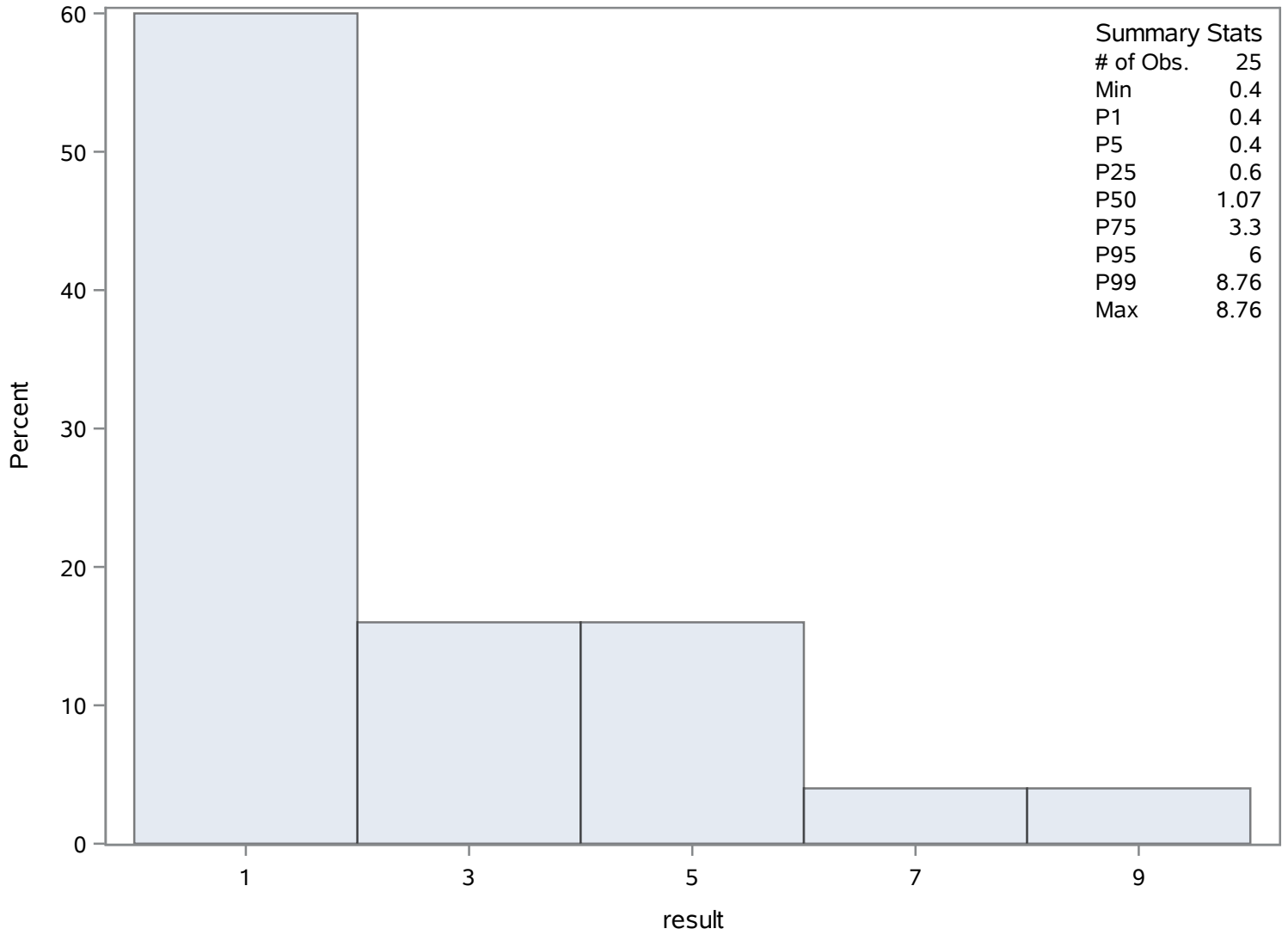
Source: Springs Data

Betee Jay Spring

Potassium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Purge Volume (Total) Gallons

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	4.7788889	Sum Observations	129.03
Std Deviation	2.90653684	Variance	8.44795641
Skewness	3.31776614	Kurtosis	10.0986993
Uncorrected SS	836.2669	Corrected SS	219.646867
Coeff Variation	60.8203478	Std Error Mean	0.55936328

Basic Statistical Measures			
Location		Variability	
Mean	4.778889	Std Deviation	2.90654
Median	3.750000	Variance	8.44796
Mode	3.750000	Range	11.52000
		Interquartile Range	0.70000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.543444	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.12
99%	15.12
95%	14.35
90%	5.03
75% Q3	4.45
50% Median	3.75
25% Q1	3.75
10%	3.75
5%	3.66
1%	3.60
0% Min	3.60

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Purge Volume (Total) Gallons

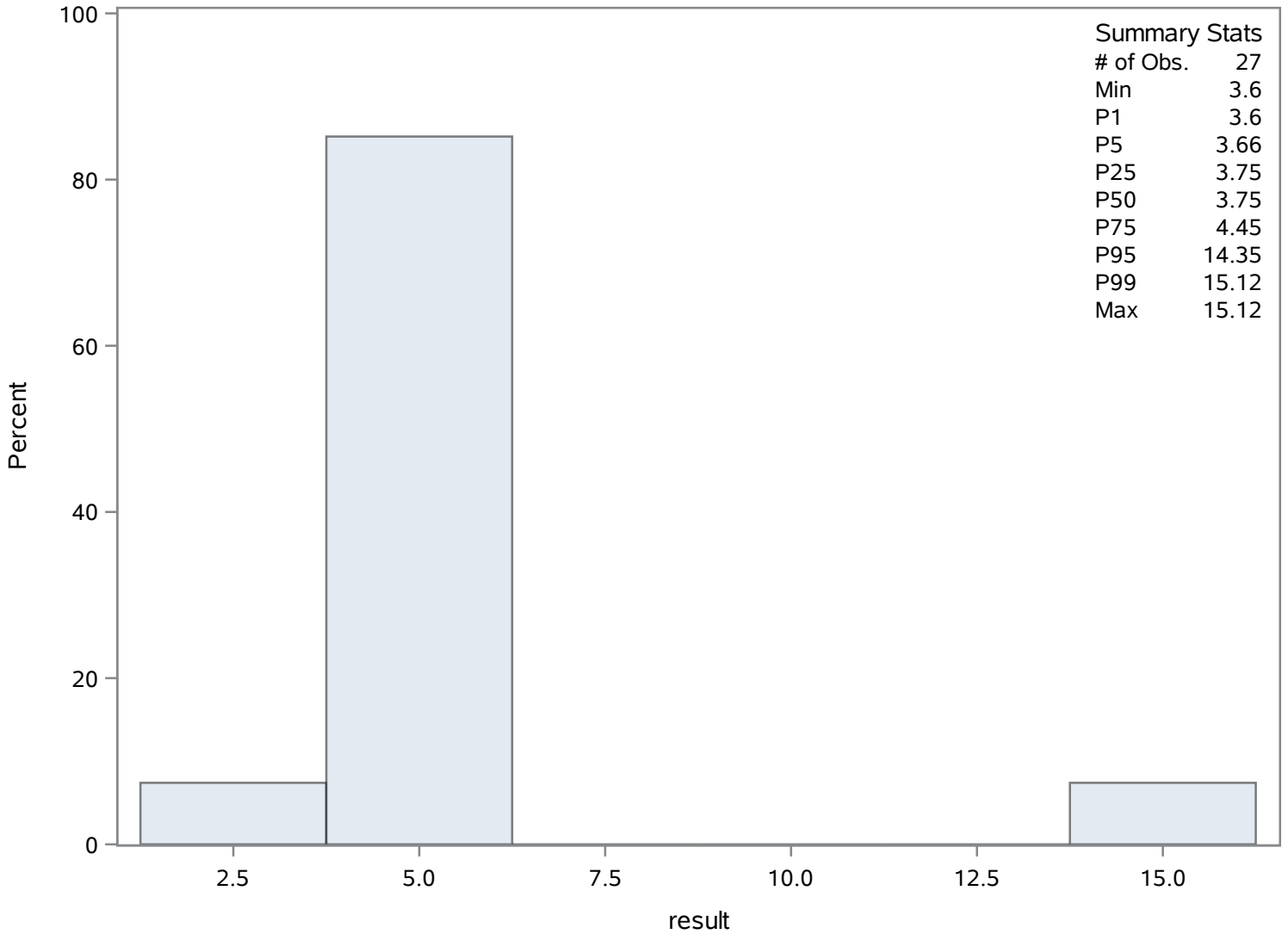
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.60	1685	4.94	1675
3.66	1684	5.00	1688
3.75	1697	5.03	1694
3.75	1696	14.35	1679
3.75	1695	15.12	1698

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Purge Volume (Total) Gallons

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	112	Sum Weights	112
Mean	467.535714	Sum Observations	52364
Std Deviation	214.521379	Variance	46019.4221
Skewness	0.9437236	Kurtosis	-0.0085559
Uncorrected SS	29590196	Corrected SS	5108155.86
Coeff Variation	45.8834208	Std Error Mean	20.270365

Basic Statistical Measures			
Location		Variability	
Mean	467.5357	Std Deviation	214.52138
Median	418.5000	Variance	46019
Mode	261.0000	Range	775.00000
		Interquartile Range	327.00000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	23.06499	Pr > t 	<.0001
Sign	M	56	Pr >= M 	<.0001
Signed Rank	S	3164	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1002.0
99%	1000.0
95%	942.0
90%	752.0
75% Q3	608.0
50% Median	418.5
25% Q1	281.0
10%	254.0
5%	247.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

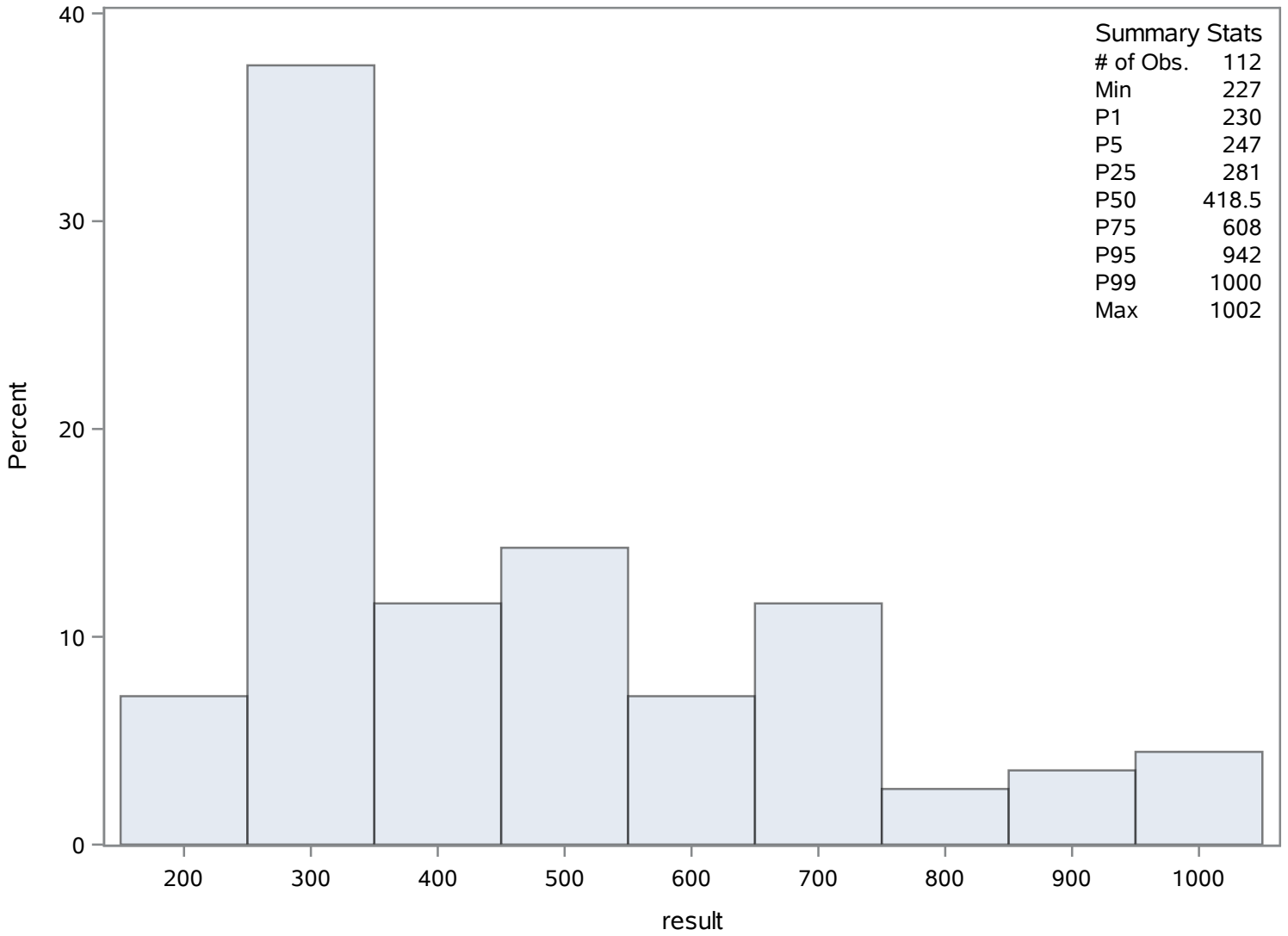
Quantiles (Definition 5)	
Level	Quantile
1%	230.0
0% Min	227.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
227	1729	955	1770
230	1728	995	1744
230	1727	999	1740
240	1765	1000	1783
245	1763	1002	1745

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	9.33334861	Sum Observations	672.0011
Std Deviation	0.2326718	Variance	0.05413617
Skewness	0.48104344	Kurtosis	2.3680142
Uncorrected SS	6275.8642	Corrected SS	3.84366794
Coeff Variation	2.4929081	Std Error Mean	0.02742064

Basic Statistical Measures			
Location		Variability	
Mean	9.333349	Std Deviation	0.23267
Median	9.300000	Variance	0.05414
Mode	9.400000	Range	1.50000
		Interquartile Range	0.25000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	340.3768	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.20
99%	10.20
95%	9.70
90%	9.60
75% Q3	9.45
50% Median	9.30
25% Q1	9.20
10%	9.10
5%	9.00
1%	8.70
0% Min	8.70

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Silica- Dissolved (Dissolved) mg/L

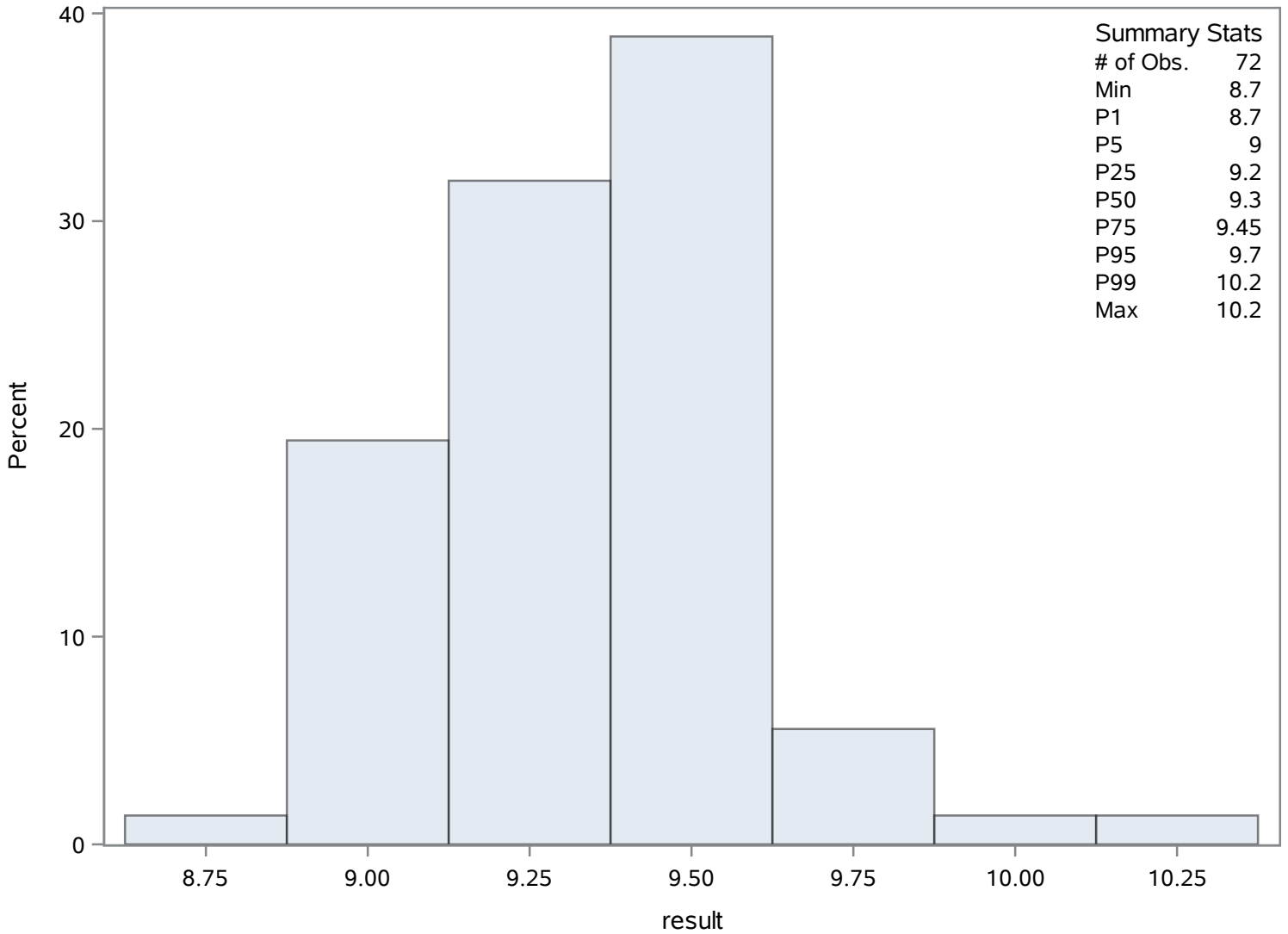
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.7	1870	9.6984	1829
8.9	1871	9.7000	1818
8.9	1843	9.7000	1819
9.0	1874	9.9000	1813
9.0	1873	10.2000	1863

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	94	Sum Weights	94
Mean	84.3697872	Sum Observations	7930.76
Std Deviation	66.2127795	Variance	4384.13217
Skewness	0.85656735	Kurtosis	-0.1593504
Uncorrected SS	1076840.83	Corrected SS	407724.292
Coeff Variation	78.4792539	Std Error Mean	6.82932676

Basic Statistical Measures			
Location		Variability	
Mean	84.36979	Std Deviation	66.21278
Median	72.15000	Variance	4384
Mode	14.60000	Range	238.70000
		Interquartile Range	103.80000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.35404	Pr > t 	<.0001
Sign	M	47	Pr >= M 	<.0001
Signed Rank	S	2232.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	251.00
99%	251.00
95%	221.00
90%	169.00
75% Q3	131.00
50% Median	72.15
25% Q1	27.20
10%	15.30
5%	14.50

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	12.30
0% Min	12.30

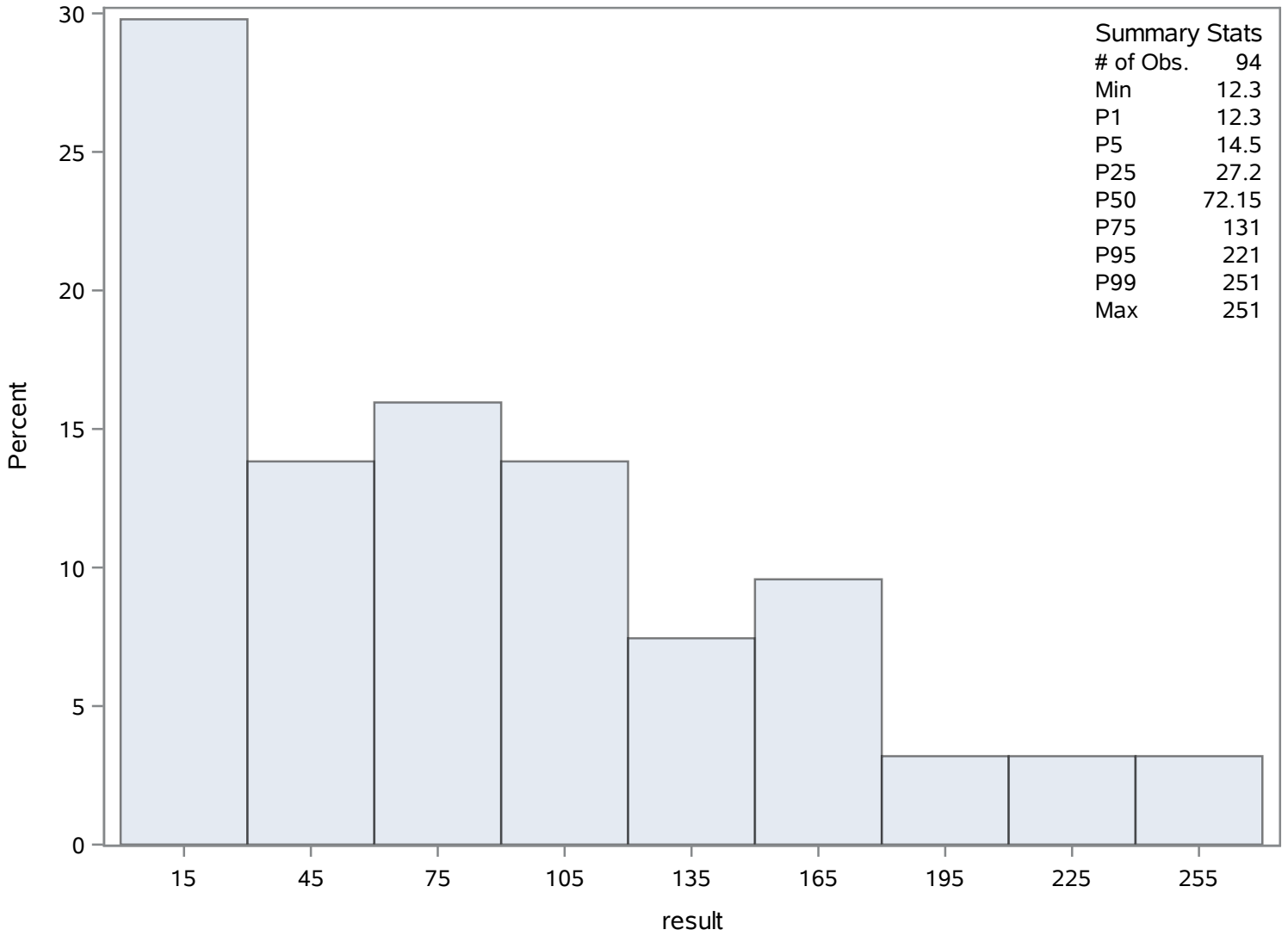
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.3	1929	221	1946
12.8	1927	229	1949
14.0	1887	247	1905
14.4	1895	248	1909
14.5	1918	251	1908

Chassahowitzka River - Fixed Station

Source: Springs Data
Bete Jay Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	59.5291667	Sum Observations	1428.7
Std Deviation	55.3567362	Variance	3064.36824
Skewness	0.98754629	Kurtosis	-0.485583
Uncorrected SS	155529.79	Corrected SS	70480.4696
Coeff Variation	92.9909476	Std Error Mean	11.2996465

Basic Statistical Measures			
Location		Variability	
Mean	59.52917	Std Deviation	55.35674
Median	25.55000	Variance	3064
Mode	14.60000	Range	155.00000
		Interquartile Range	81.25000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	5.268233	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	166.00
99%	166.00
95%	164.00
90%	162.00
75% Q3	97.50
50% Median	25.55
25% Q1	16.25
10%	14.40
5%	14.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	11.00
0% Min	11.00

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.0	1977	110	1989
14.0	1983	154	1998
14.4	1991	162	1997
14.6	1993	164	1988
14.6	1992	166	1990

Chassahowitzka River - Fixed Station

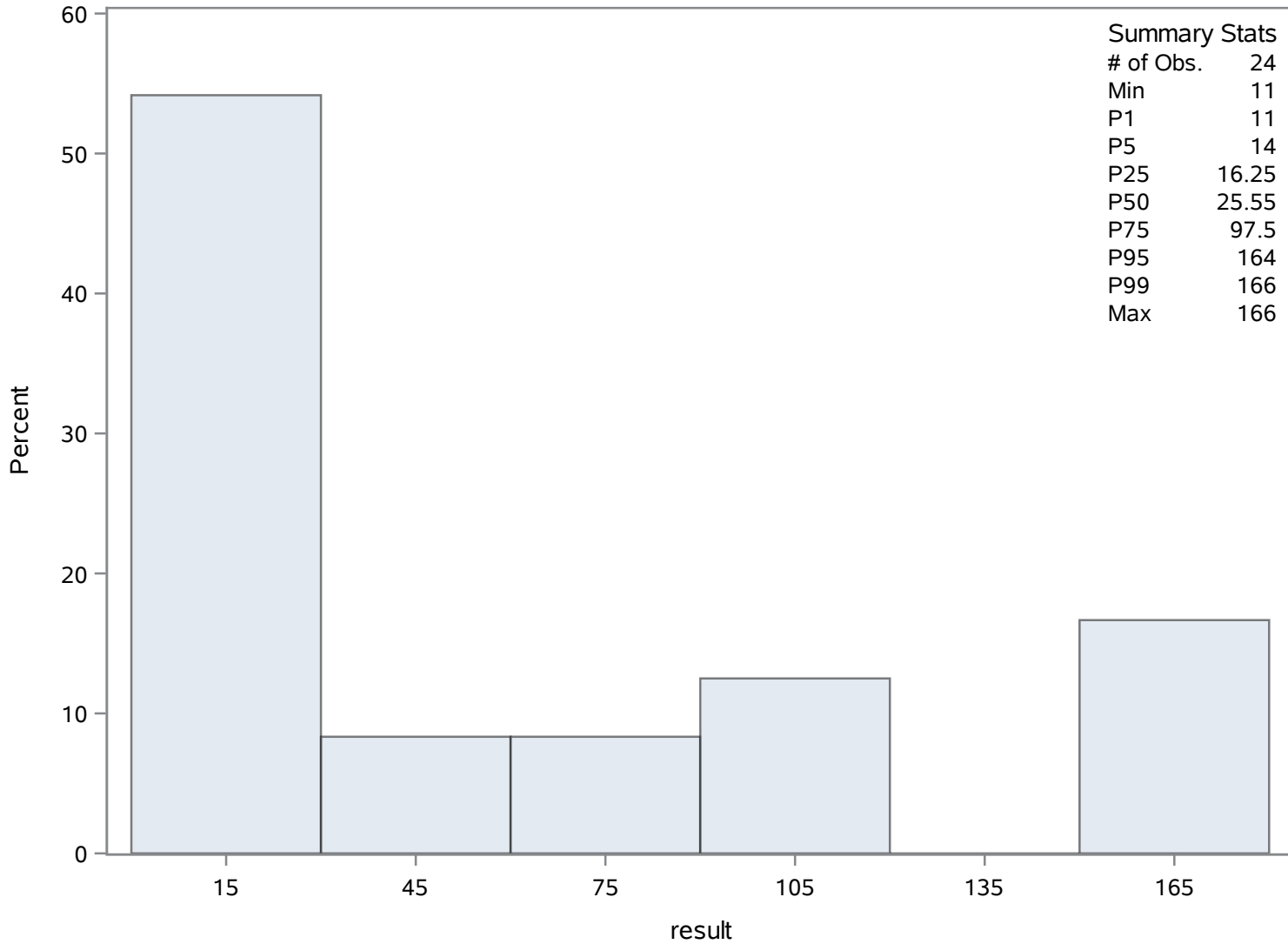
Source: Springs Data

Betee Jay Spring

Sodium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	178	Sum Weights	178
Mean	893.994944	Sum Observations	159131.1
Std Deviation	423.674748	Variance	179500.292
Skewness	0.76006617	Kurtosis	-0.3303343
Uncorrected SS	174033950	Corrected SS	31771551.7
Coeff Variation	47.3911794	Std Error Mean	31.7557649

Basic Statistical Measures			
Location		Variability	
Mean	893.9949	Std Deviation	423.67475
Median	825.5000	Variance	179500
Mode	415.0000	Range	1527
		Interquartile Range	676.00000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.15221	Pr > t 	<.0001
Sign	M	89	Pr >= M 	<.0001
Signed Rank	S	7965.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1921.0
99%	1897.0
95%	1790.0
90%	1406.7
75% Q3	1210.0
50% Median	825.5
25% Q1	534.0
10%	428.0
5%	417.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

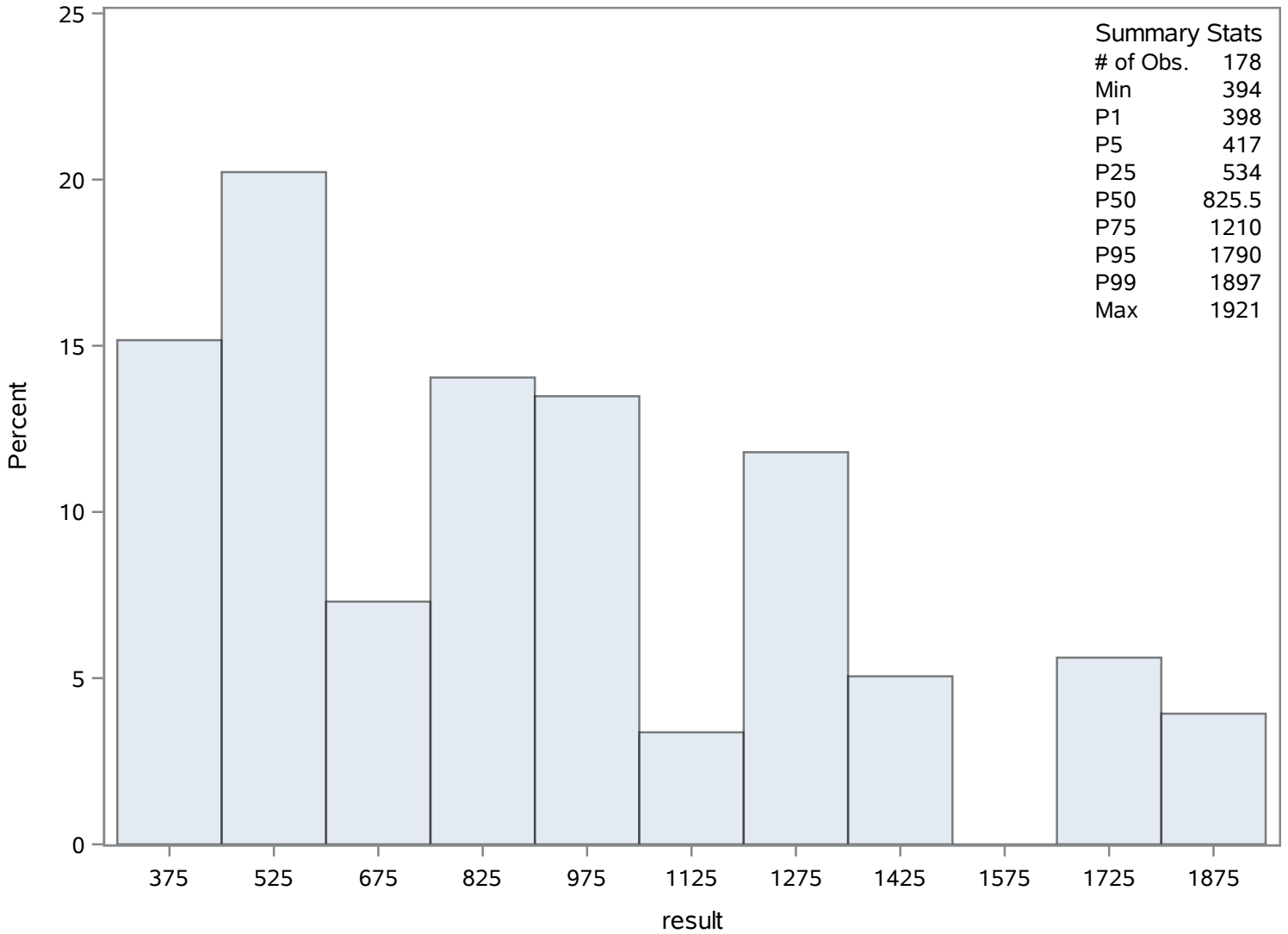
Quantiles (Definition 5)	
Level	Quantile
1%	398.0
0% Min	394.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
394	2016	1842	2124
398	2082	1886	2125
398	2081	1894	2045
405	2083	1897	2044
415	2078	1921	2043

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	48	Sum Weights	48
Mean	0.28291667	Sum Observations	13.58
Std Deviation	0.0577024	Variance	0.00332957
Skewness	0.48765725	Kurtosis	-0.0131173
Uncorrected SS	3.998498	Corrected SS	0.15648967
Coeff Variation	20.3955476	Std Error Mean	0.00832862

Basic Statistical Measures			
Location		Variability	
Mean	0.282917	Std Deviation	0.05770
Median	0.270000	Variance	0.00333
Mode	0.250000	Range	0.26000
		Interquartile Range	0.07500

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	33.96919	Pr > t 	<.0001
Sign	M	24	Pr >= M 	<.0001
Signed Rank	S	588	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.420
99%	0.420
95%	0.400
90%	0.380
75% Q3	0.320
50% Median	0.270
25% Q1	0.245
10%	0.210
5%	0.210

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.160
0% Min	0.160

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.160	2222	0.38	2196
0.202	2209	0.38	2219
0.210	2217	0.40	2199
0.210	2214	0.40	2200
0.210	2208	0.42	2203

Chassahowitzka River - Fixed Station

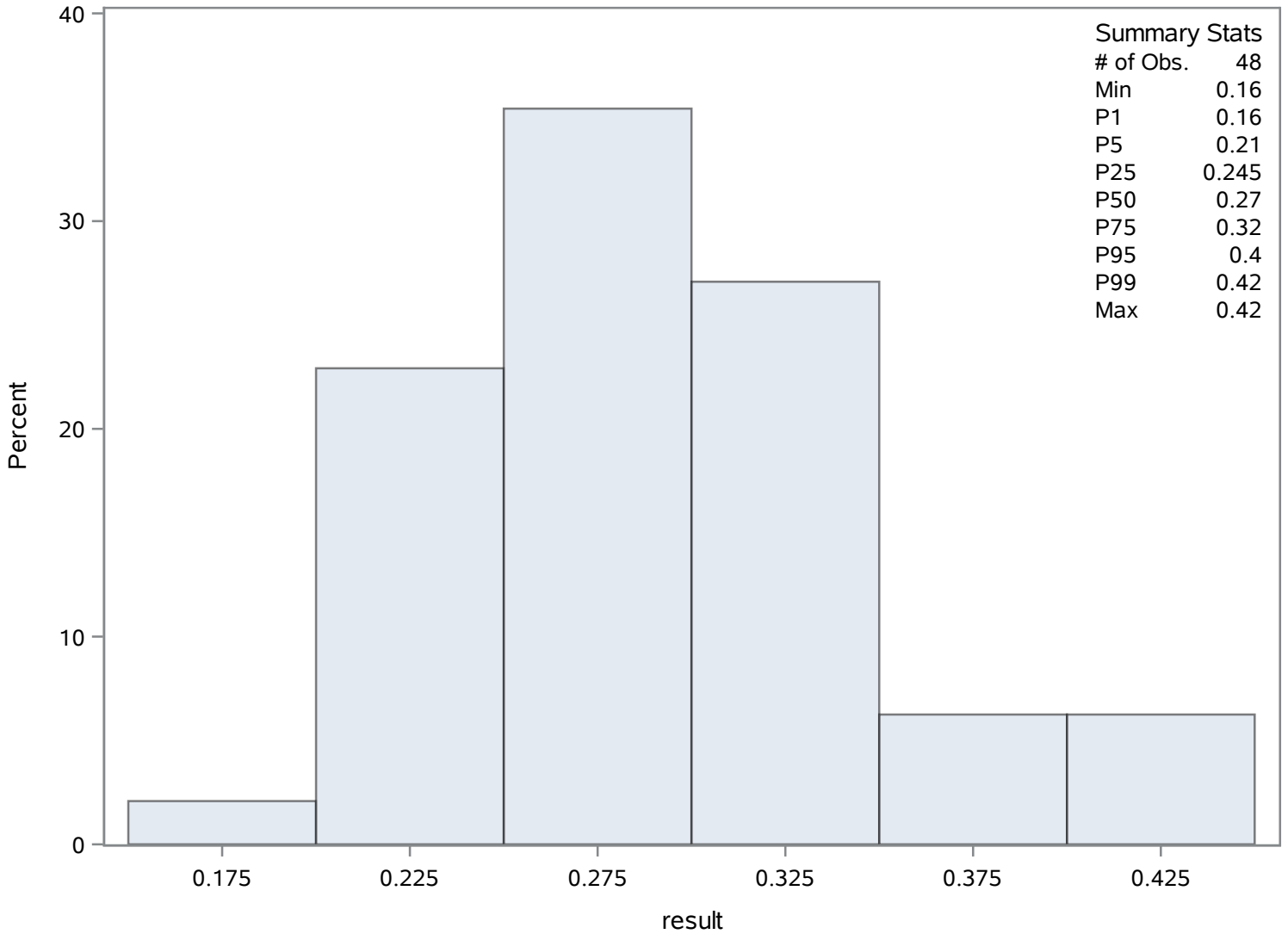
Source: Springs Data

Bete Jay Spring

Strontium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	42	Sum Weights	42
Mean	236.452381	Sum Observations	9931
Std Deviation	149.664047	Variance	22399.3269
Skewness	1.34060051	Kurtosis	4.48690509
Uncorrected SS	3266581	Corrected SS	918372.405
Coeff Variation	63.2956396	Std Error Mean	23.0936638

Basic Statistical Measures			
Location		Variability	
Mean	236.4524	Std Deviation	149.66405
Median	250.0000	Variance	22399
Mode	250.0000	Range	770.00000
		Interquartile Range	140.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.23884	Pr > t 	<.0001
Sign	M	21	Pr >= M 	<.0001
Signed Rank	S	451.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	820
99%	820
95%	441
90%	420
75% Q3	300
50% Median	250
25% Q1	160
10%	50
5%	50
1%	50
0% Min	50

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
50	2239	420	2256
50	2238	420	2257
50	2237	441	2255
50	2236	500	2229
50	2235	820	2244

Chassahowitzka River - Fixed Station

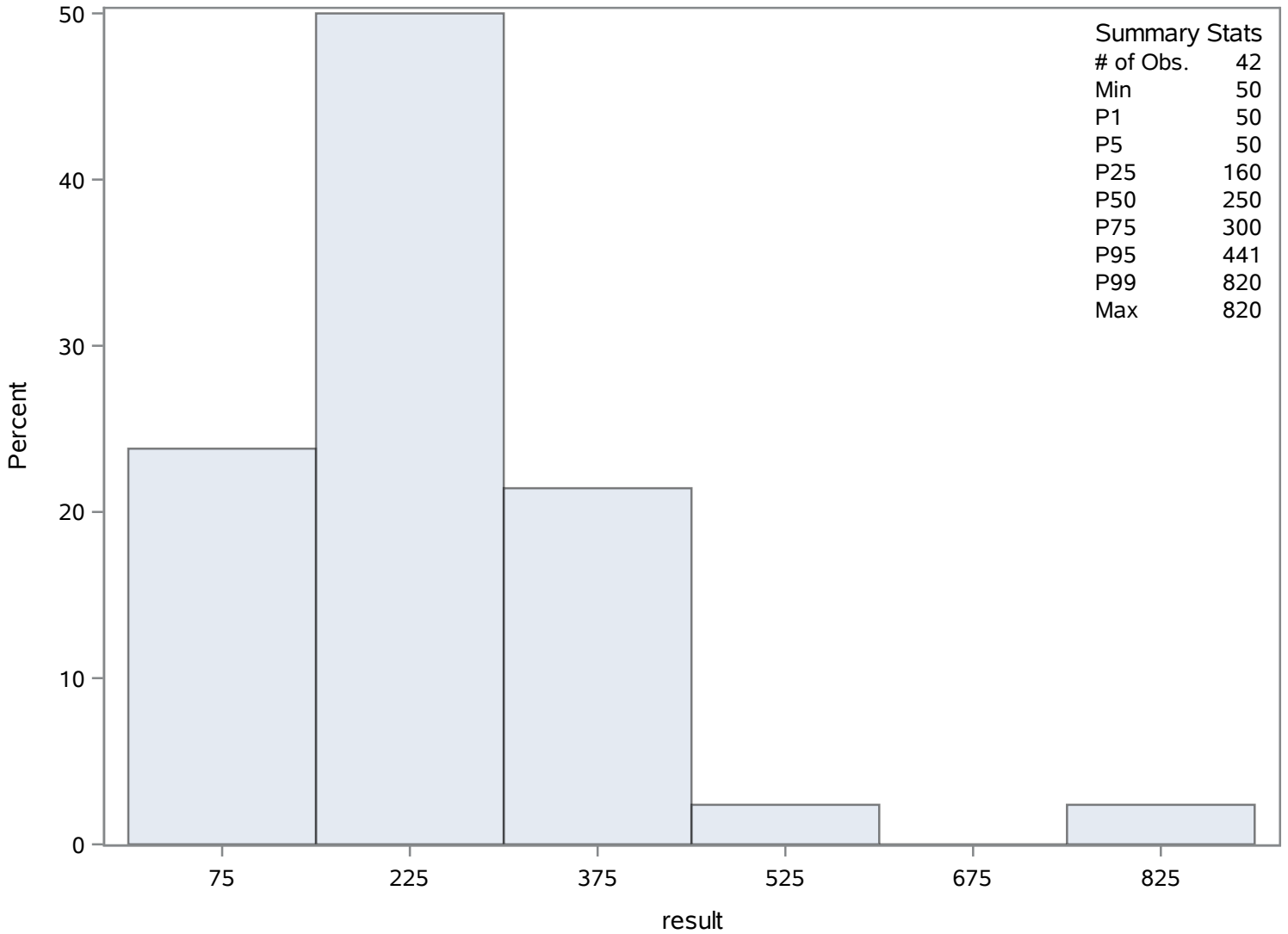
Source: Springs Data

Betee Jay Spring

Strontium (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	113	Sum Weights	113
Mean	27.4889381	Sum Observations	3106.25
Std Deviation	17.5622579	Variance	308.432902
Skewness	0.77558218	Kurtosis	-0.3229048
Uncorrected SS	119931.999	Corrected SS	34544.4851
Coeff Variation	63.8884553	Std Error Mean	1.65211825

Basic Statistical Measures			
Location		Variability	
Mean	27.48894	Std Deviation	17.56226
Median	24.00000	Variance	308.43290
Mode	11.00000	Range	66.60000
		Interquartile Range	25.90000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.6386	Pr > t 	<.0001
Sign	M	56.5	Pr >= M 	<.0001
Signed Rank	S	3220.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	70.40
99%	70.10
95%	64.00
90%	50.70
75% Q3	37.10
50% Median	24.00
25% Q1	11.20
10%	9.02
5%	8.27
1%	7.80
0% Min	3.80

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.80	2269	65.9	2351
7.80	2334	68.0	2354
7.94	2332	70.0	2314
7.99	2327	70.1	2313
8.03	2326	70.4	2310

Chassahowitzka River - Fixed Station

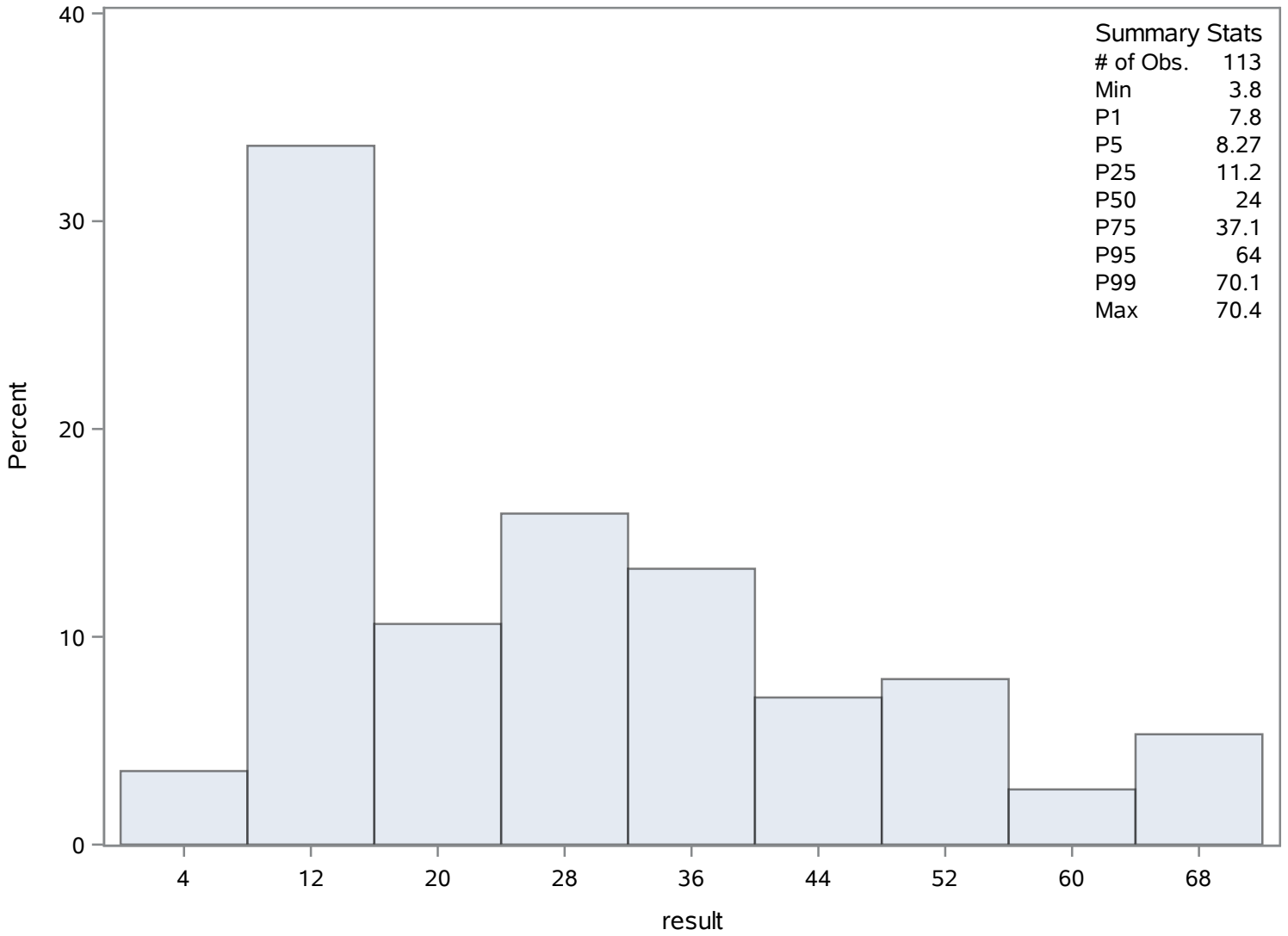
Source: Springs Data

Bete Jay Spring

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	89	Sum Weights	89
Mean	23.0132584	Sum Observations	2048.18
Std Deviation	0.7206906	Variance	0.51939494
Skewness	1.02947141	Kurtosis	7.8958653
Uncorrected SS	47181.0024	Corrected SS	45.7067551
Coeff Variation	3.13163216	Std Error Mean	0.07639305

Basic Statistical Measures			
Location		Variability	
Mean	23.01326	Std Deviation	0.72069
Median	22.94000	Variance	0.51939
Mode	22.90000	Range	6.03000
		Interquartile Range	0.46000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	301.2481	Pr > t 	<.0001
Sign	M	44.5	Pr >= M 	<.0001
Signed Rank	S	2002.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.60
99%	26.60
95%	24.00
90%	23.70
75% Q3	23.26
50% Median	22.94
25% Q1	22.80
10%	22.32
5%	22.00
1%	20.57
0% Min	20.57

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.57	2422	24.00	2399
21.40	2386	24.30	2392
21.50	2394	24.47	2432
21.59	2414	24.90	2388
22.00	2395	26.60	2396

Chassahowitzka River - Fixed Station

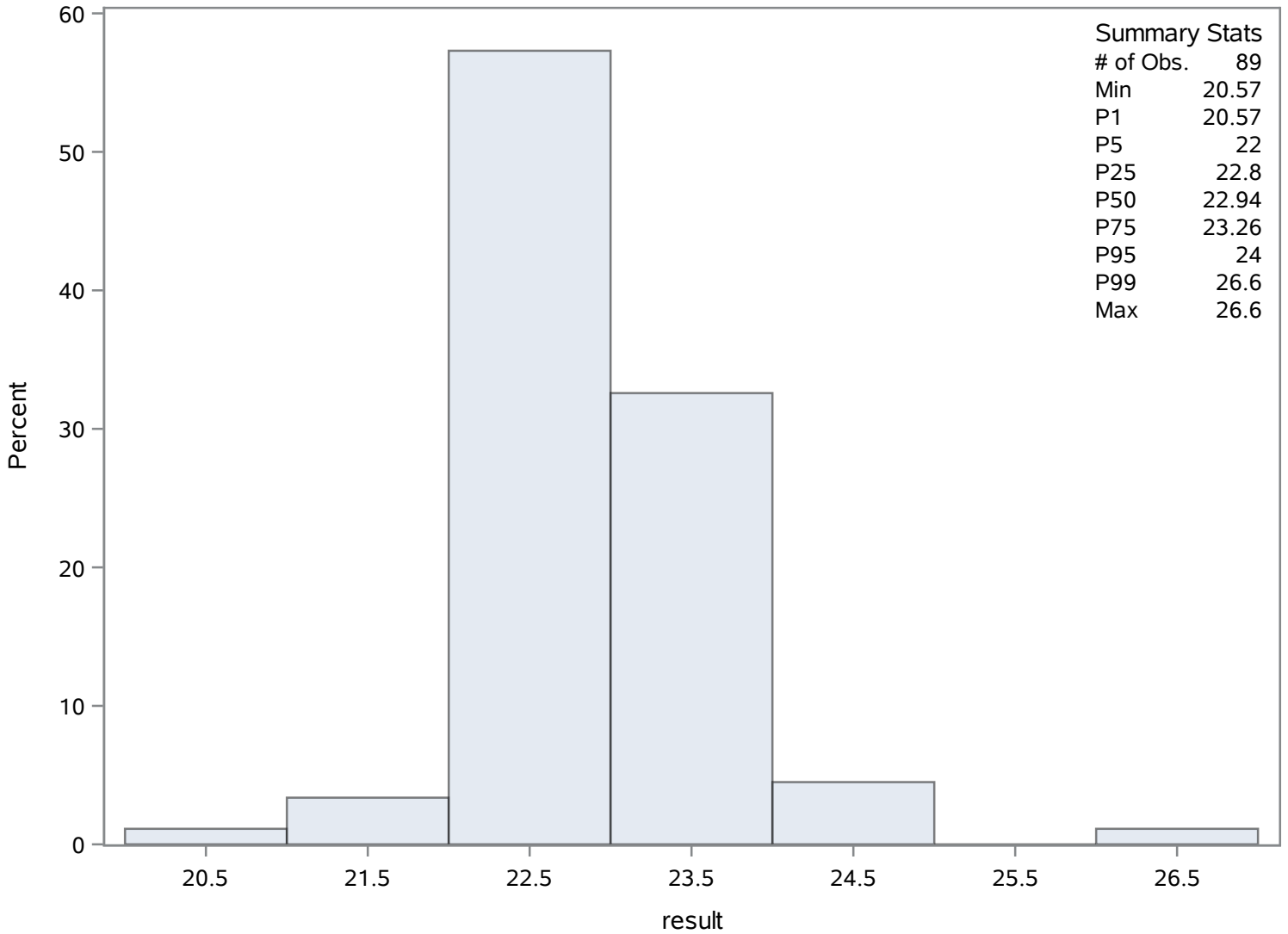
Source: Springs Data

Betee Jay Spring

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Bete Jay Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	113	Sum Weights	113
Mean	0.28790265	Sum Observations	32.533
Std Deviation	1.11453911	Variance	1.24219743
Skewness	8.57506354	Kurtosis	77.6160228
Uncorrected SS	148.492449	Corrected SS	139.126112
Coeff Variation	387.123596	Std Error Mean	0.10484702

Basic Statistical Measures			
Location		Variability	
Mean	0.287903	Std Deviation	1.11454
Median	0.130000	Variance	1.24220
Mode	0.130000	Range	10.85000
		Interquartile Range	0.10000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	2.745931	Pr > t 	0.0070
Sign	M	56.5	Pr >= M 	<.0001
Signed Rank	S	3220.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.90
99%	5.10
95%	0.37
90%	0.29
75% Q3	0.18
50% Median	0.13
25% Q1	0.08
10%	0.08
5%	0.05
1%	0.05
0% Min	0.05

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.05	2486	0.50	2511
0.05	2484	0.60	2508
0.05	2483	0.77	2523
0.05	2482	5.10	2475
0.05	2481	10.90	2471

Chassahowitzka River - Fixed Station

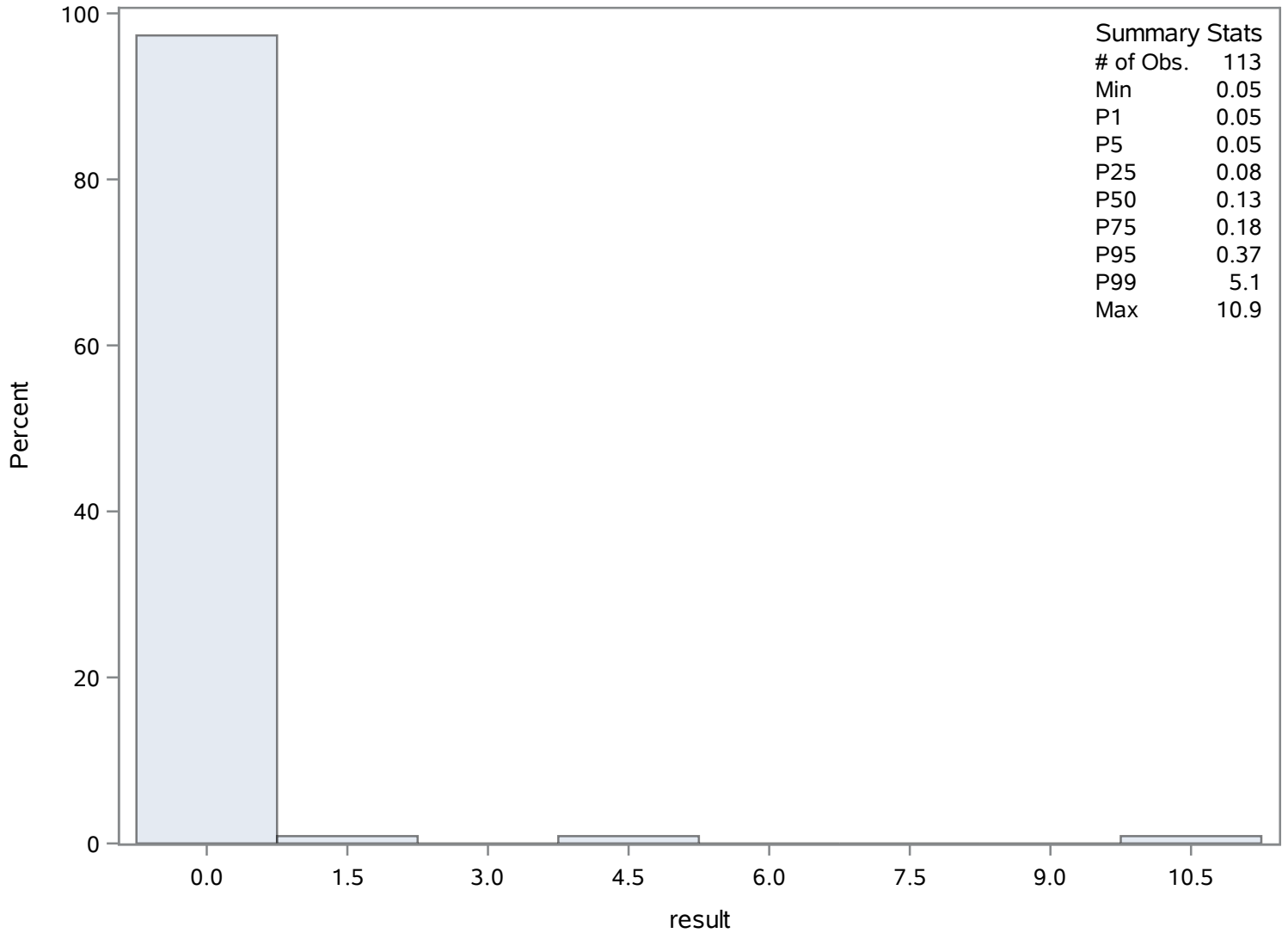
Source: Springs Data

Betee Jay Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Bete Jay Spring

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	89	Sum Weights	89
Mean	7.30078652	Sum Observations	649.77
Std Deviation	0.13142769	Variance	0.01727324
Skewness	-0.2665808	Kurtosis	1.55788925
Uncorrected SS	4745.3521	Corrected SS	1.52004494
Coeff Variation	1.80018538	Std Error Mean	0.01393131

Basic Statistical Measures			
Location		Variability	
Mean	7.300787	Std Deviation	0.13143
Median	7.310000	Variance	0.01727
Mode	7.260000	Range	0.76000
		Interquartile Range	0.14000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	524.0561	Pr > t 	<.0001
Sign	M	44.5	Pr >= M 	<.0001
Signed Rank	S	2002.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.68
99%	7.68
95%	7.51
90%	7.44
75% Q3	7.37
50% Median	7.31
25% Q1	7.23
10%	7.15
5%	7.07
1%	6.92
0% Min	6.92

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
pH (Total) SU

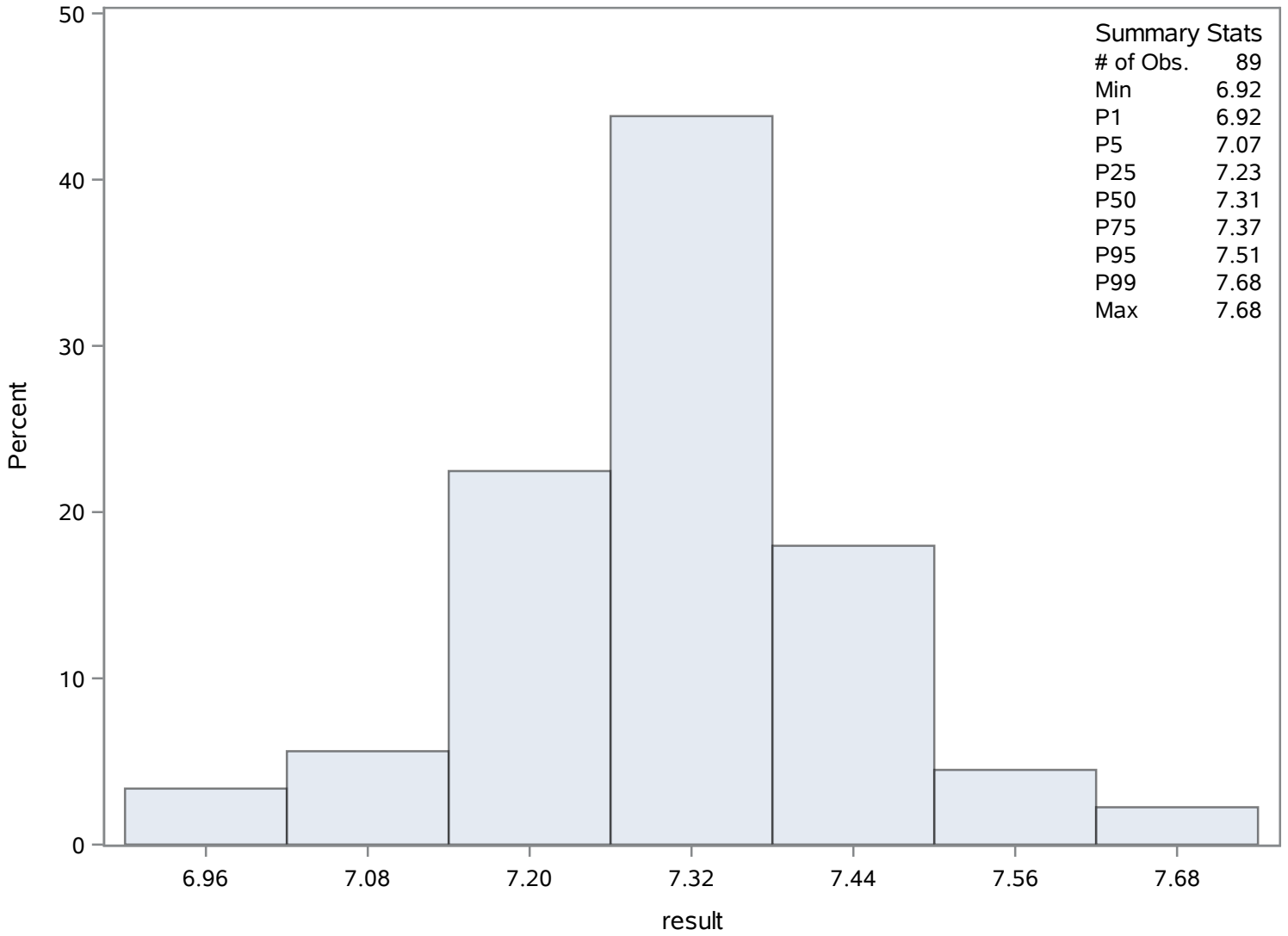
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.92	2649	7.51	2611
6.92	2584	7.53	2604
6.98	2638	7.55	2612
7.02	2619	7.63	2613
7.07	2662	7.68	2663

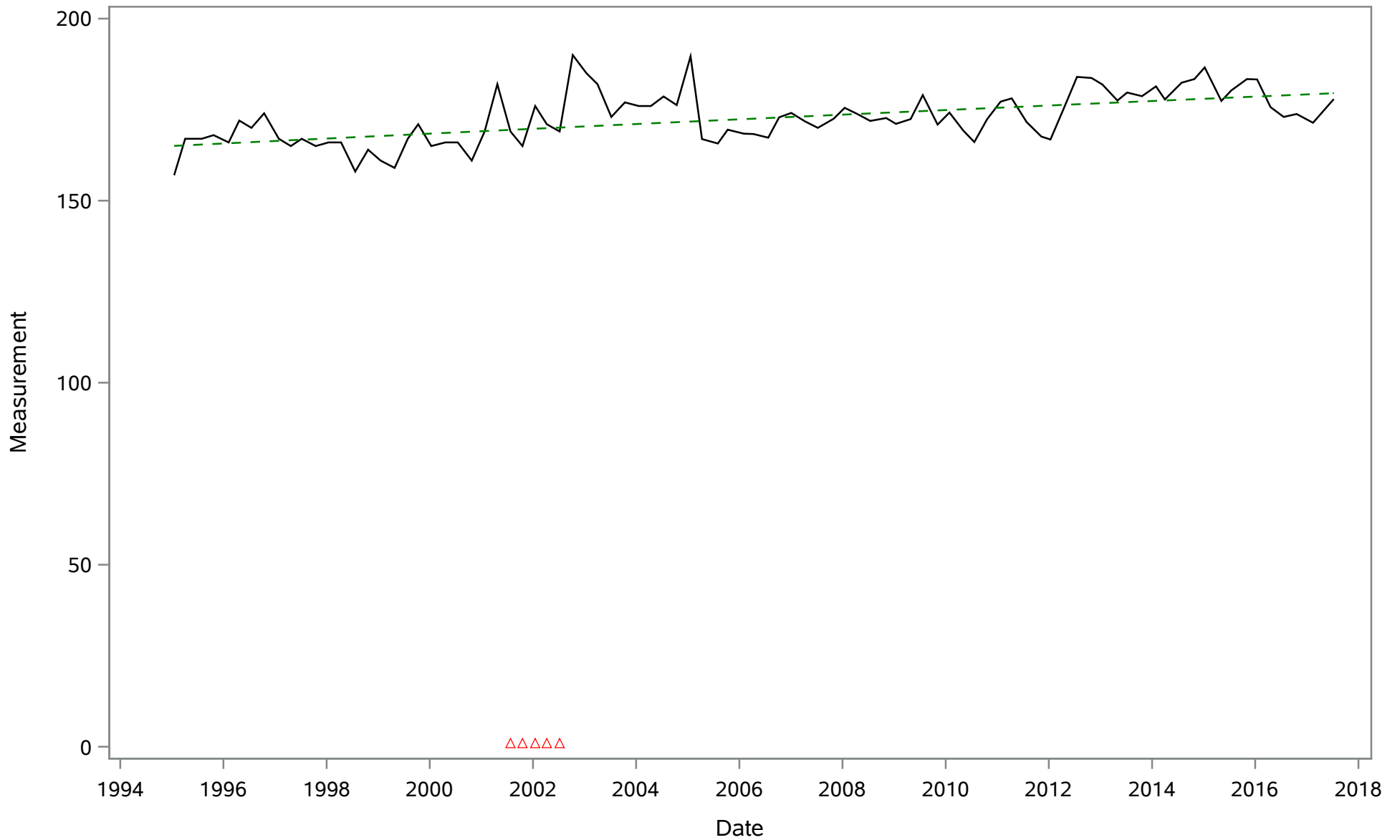
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

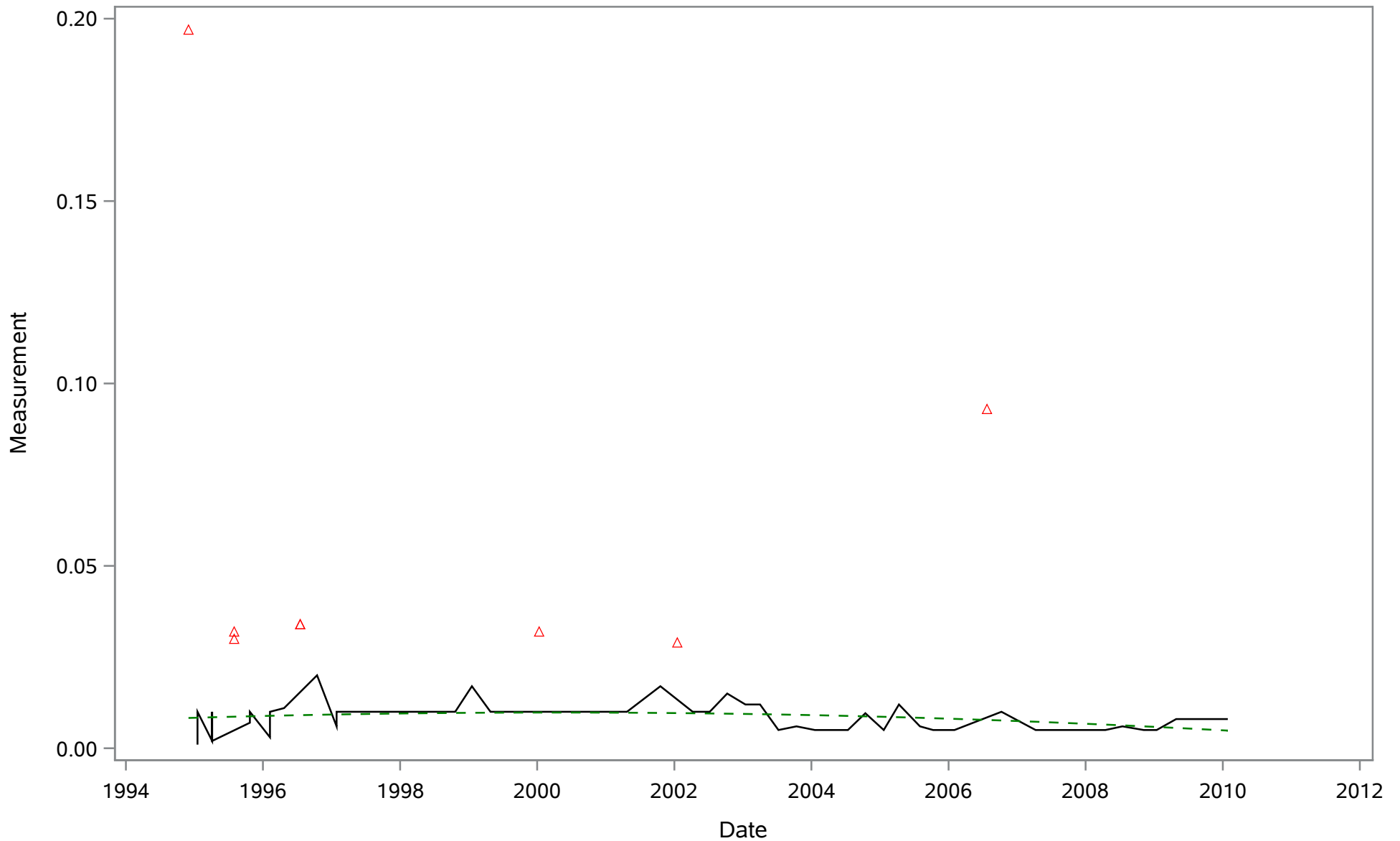


Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Alkalinity (Total) mg/L



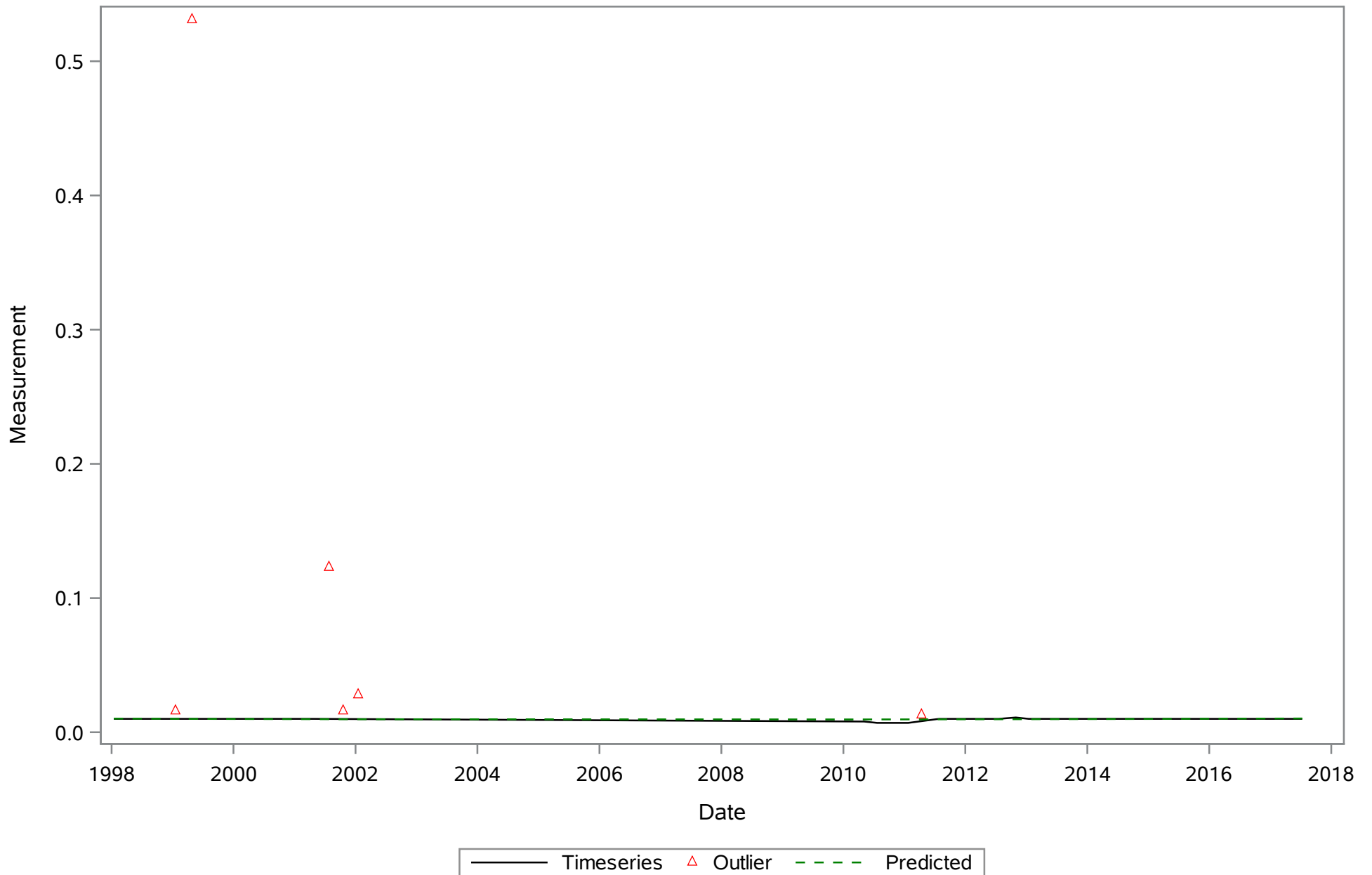
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Ammonia (N) (Dissolved) mg/L

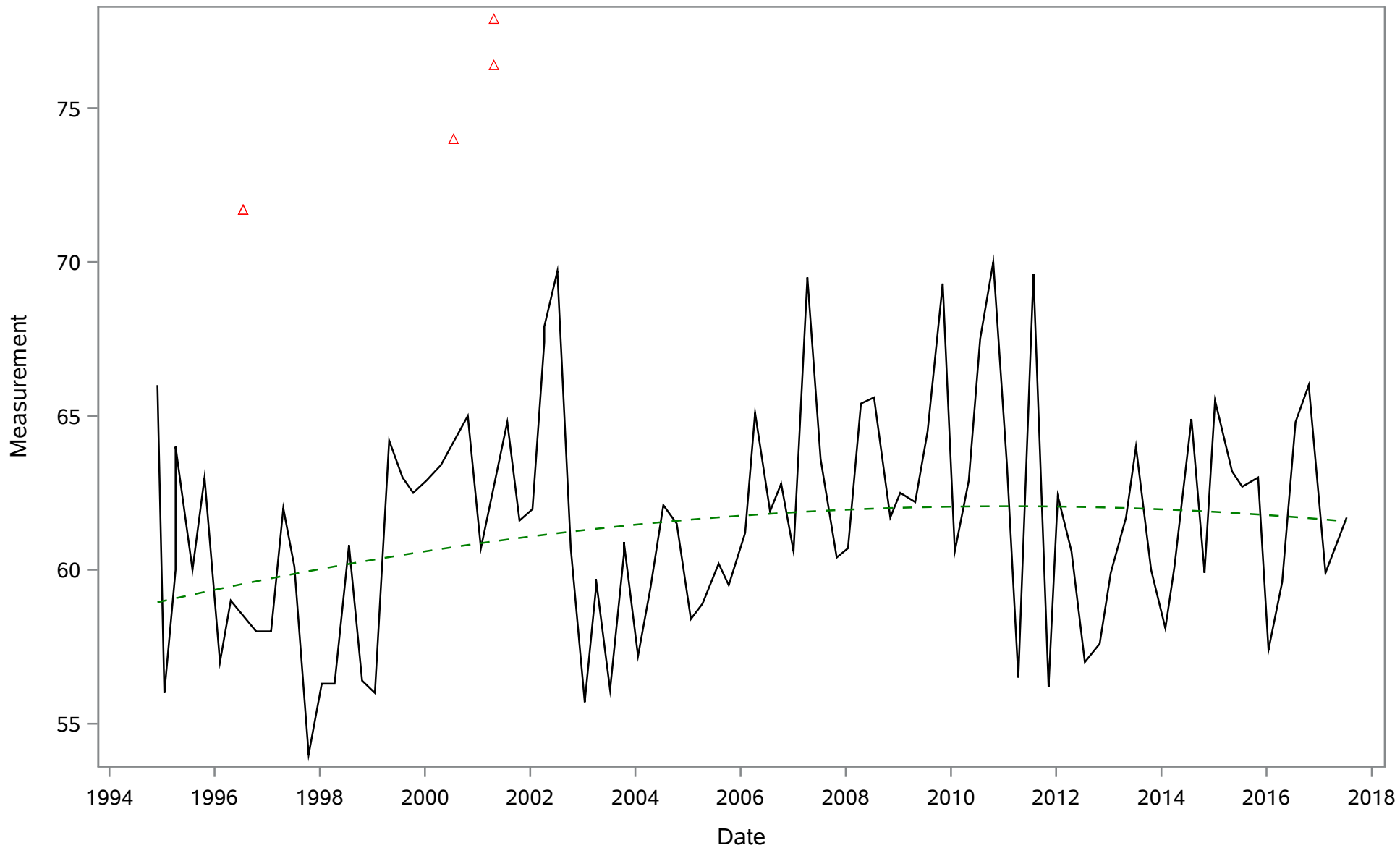


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Ammonia (N) (Total) mg/L

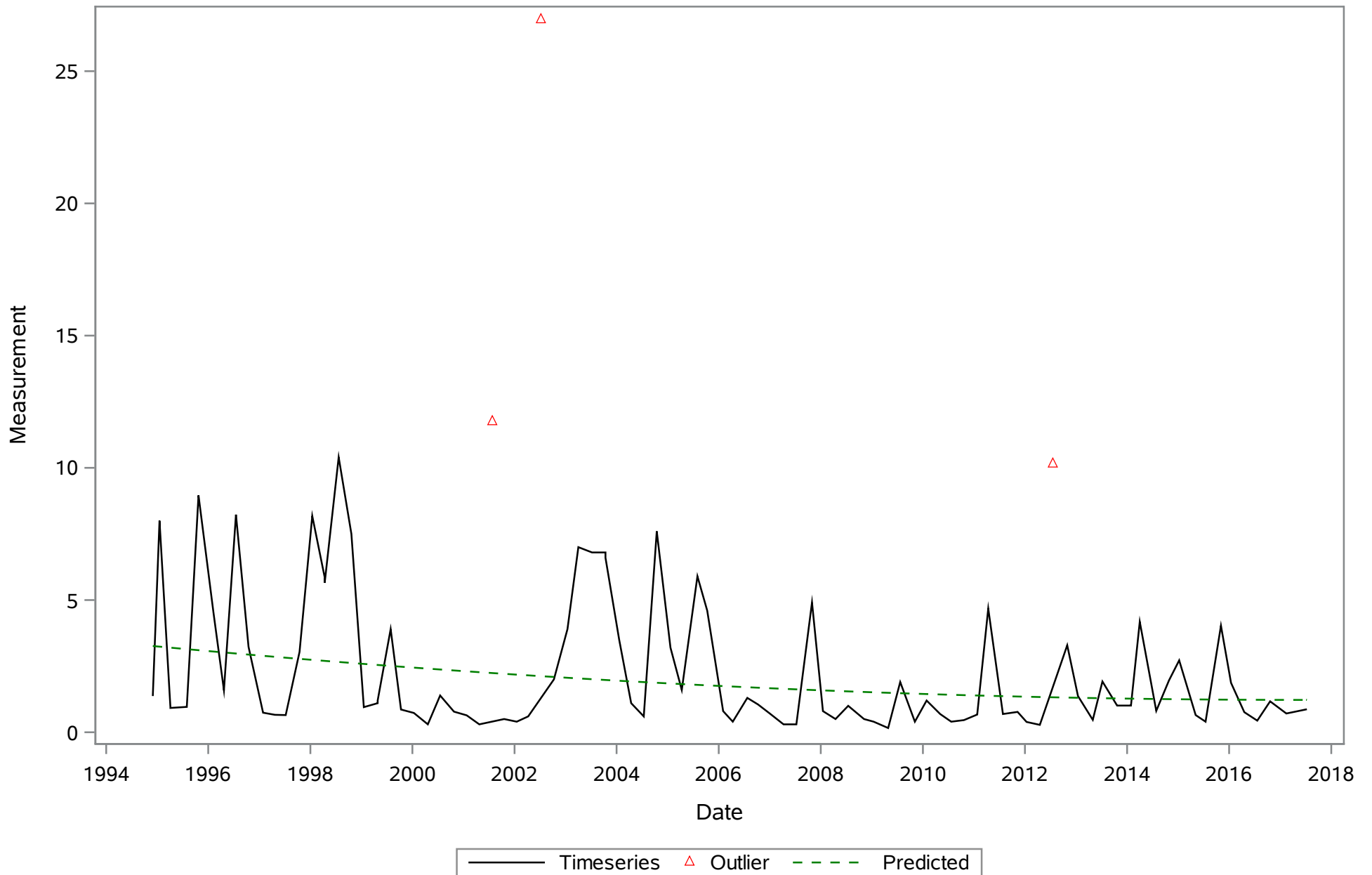


Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Calcium (Dissolved) mg/L

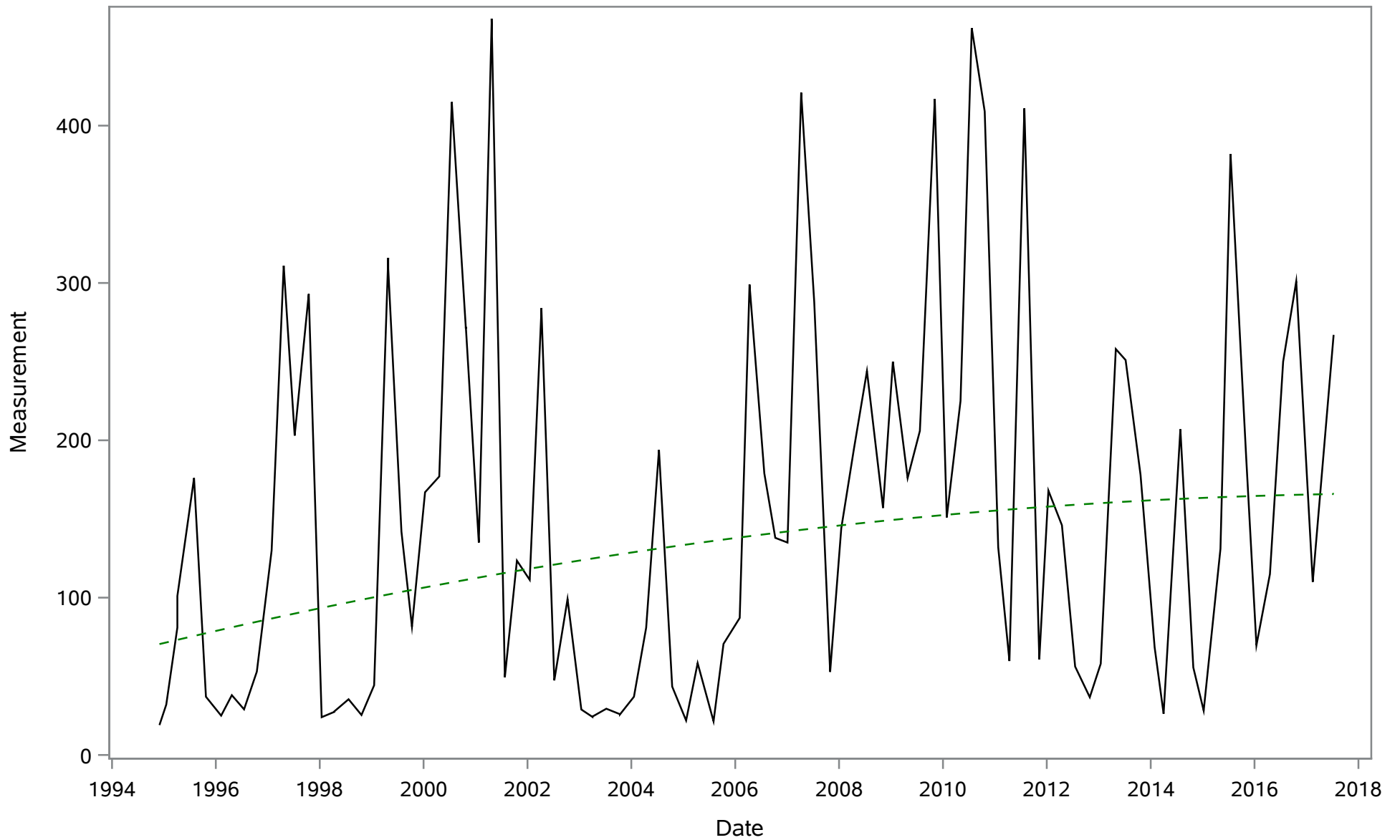


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Carbon- Total Organic (Total) mg/L

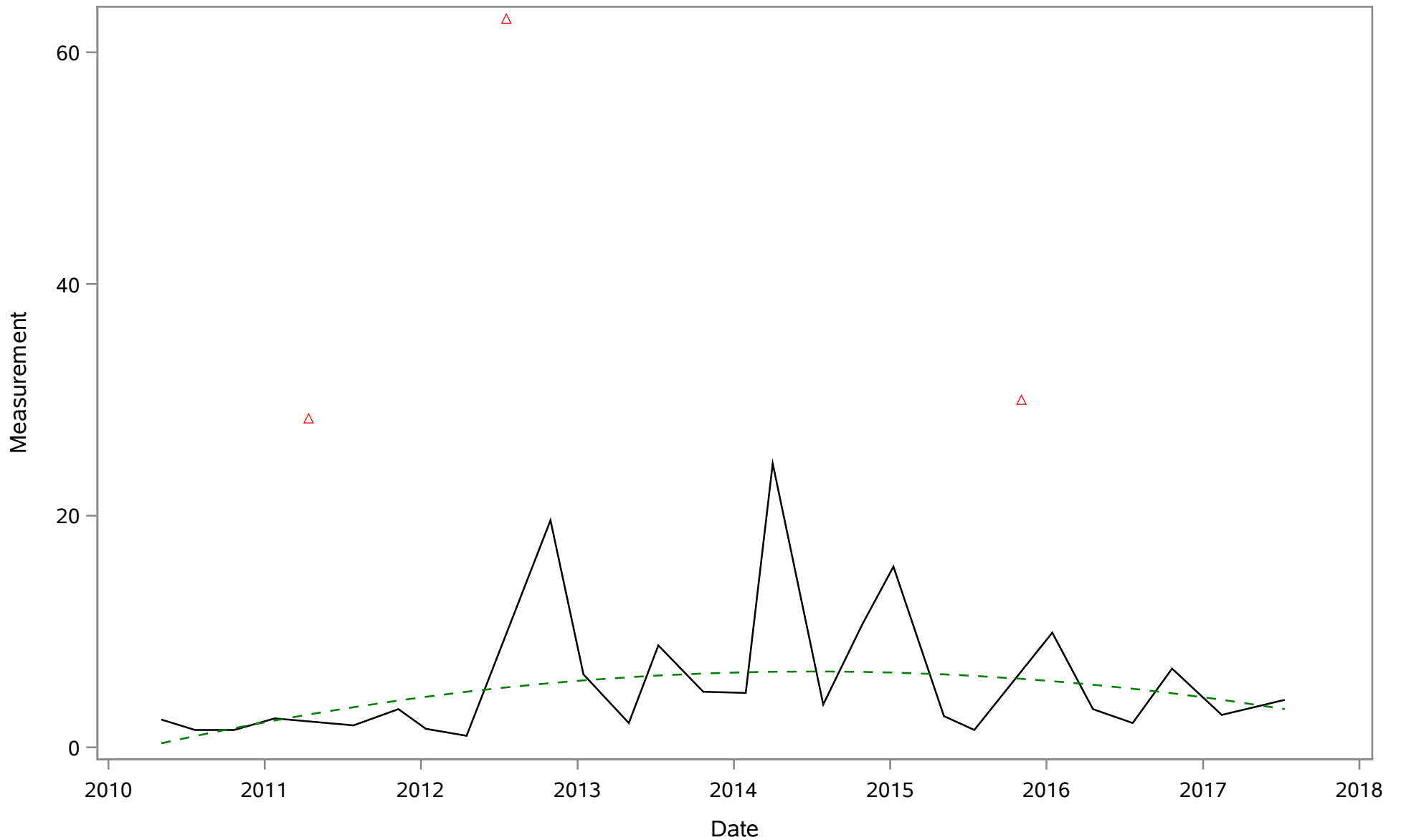


Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Chloride (Dissolved) mg/L



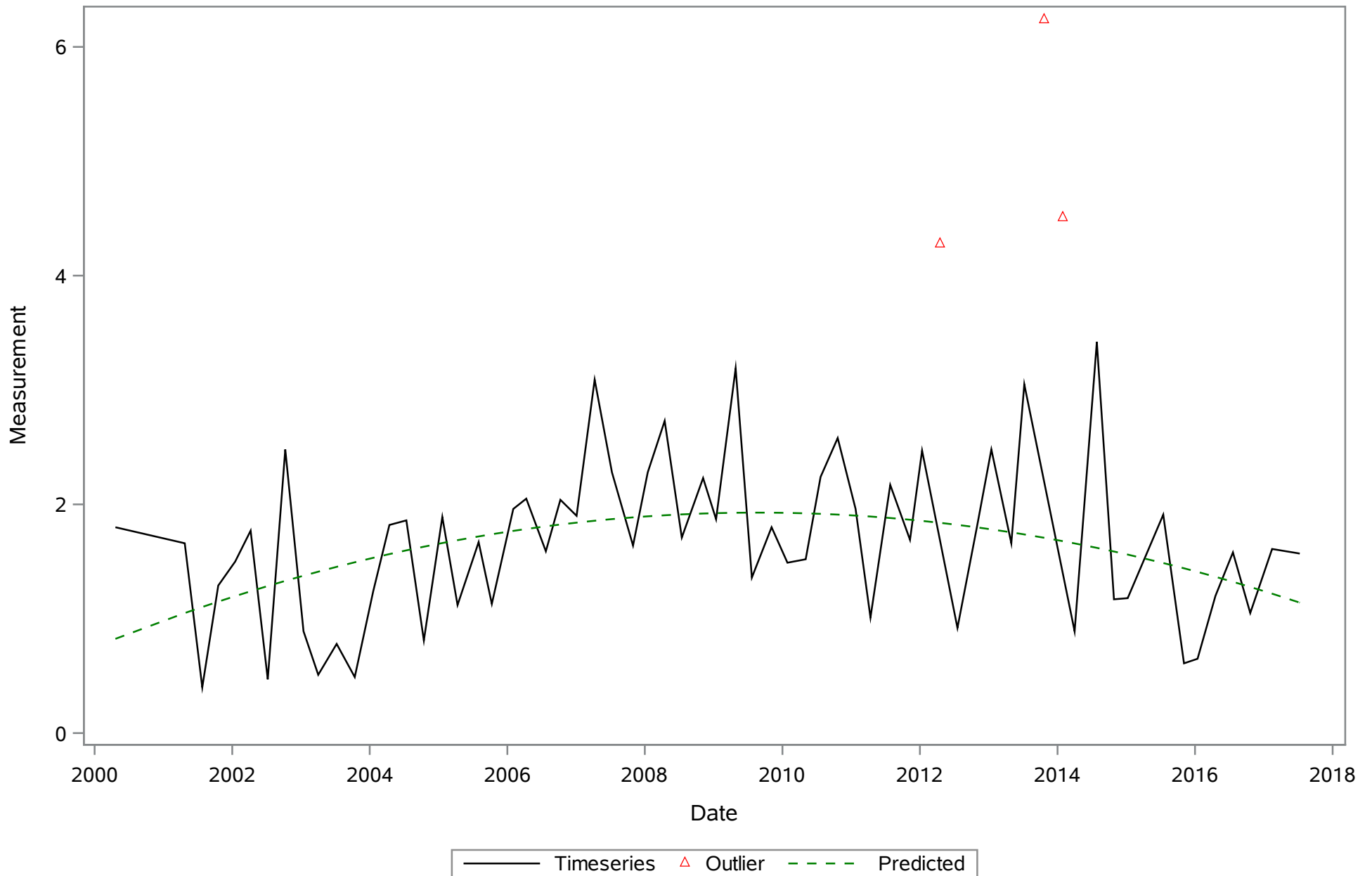
— Timeseries - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Color (Dissolved) PCU

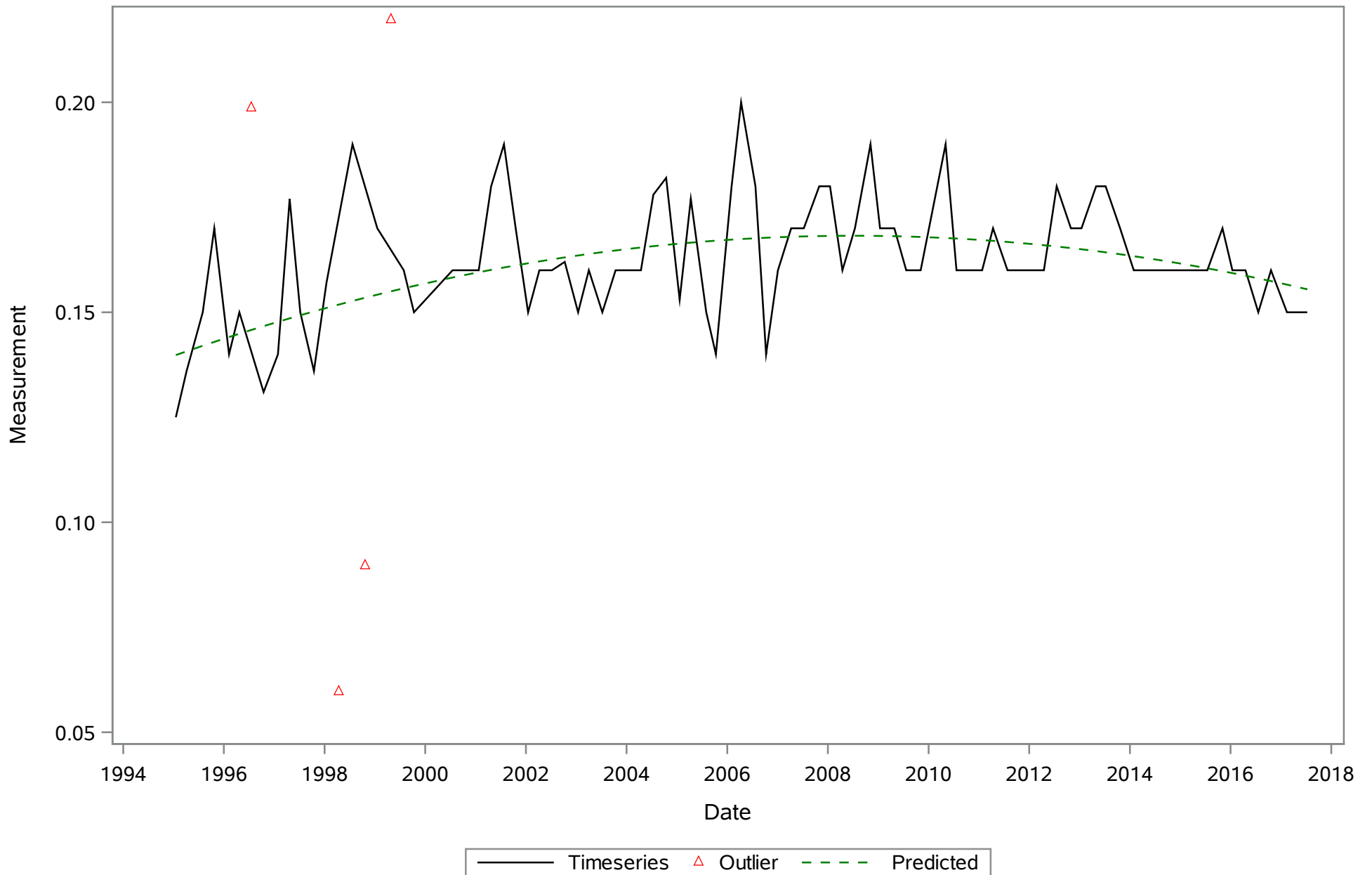


— Timeseries △ Outlier - - - Predicted

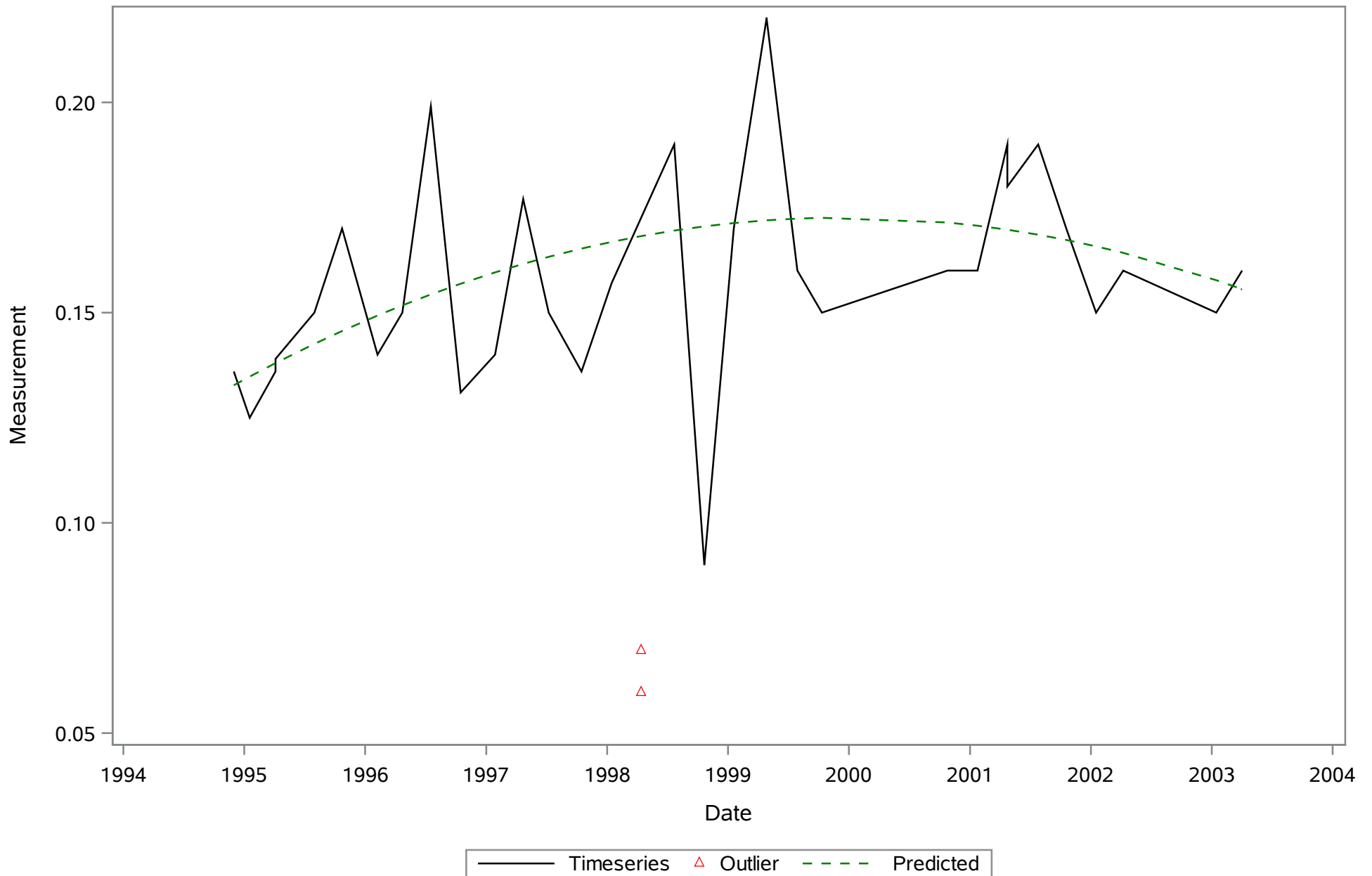
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Dissolved Oxygen (Total) mg/L



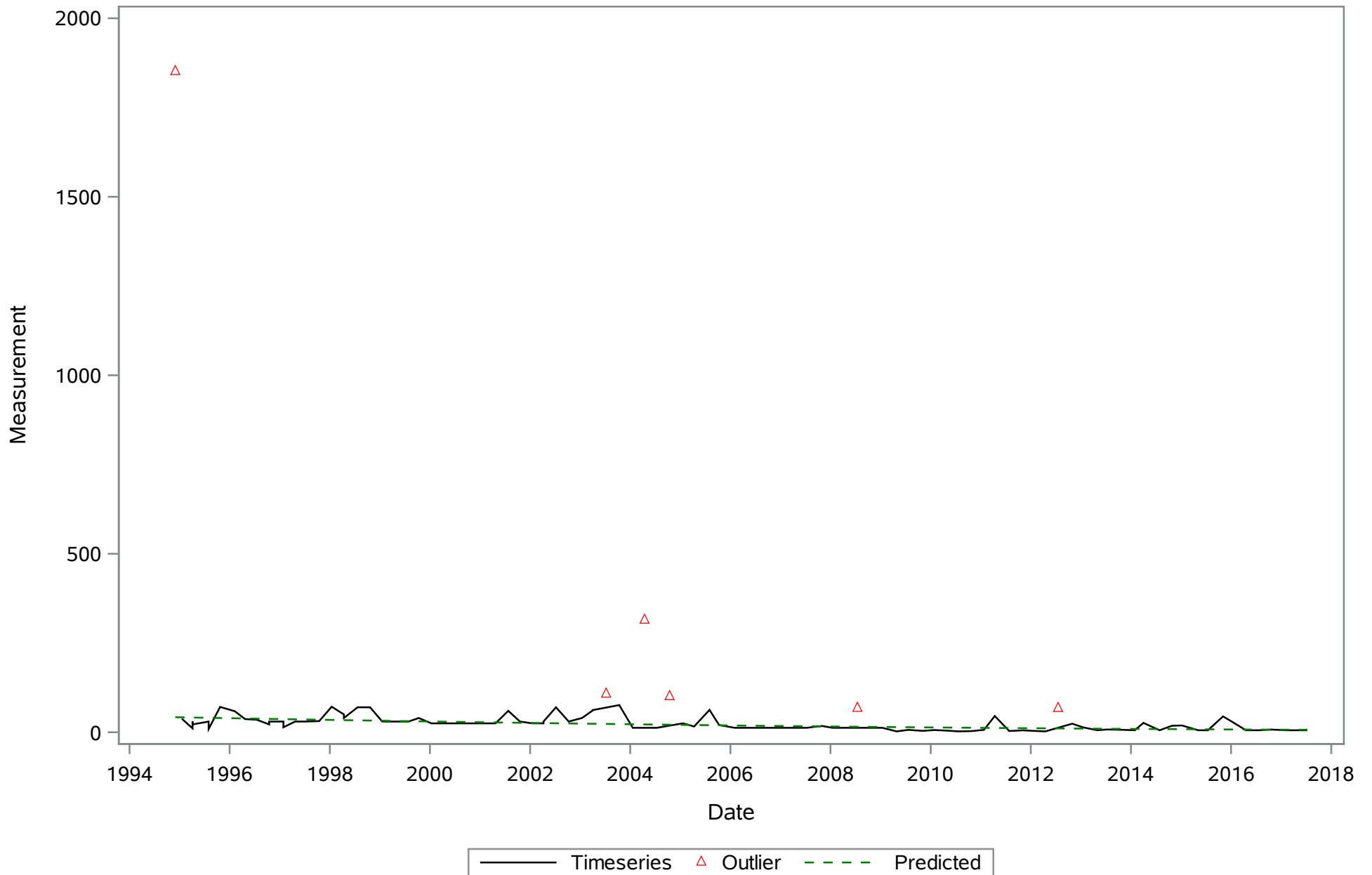
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Fluoride (Dissolved) mg/L



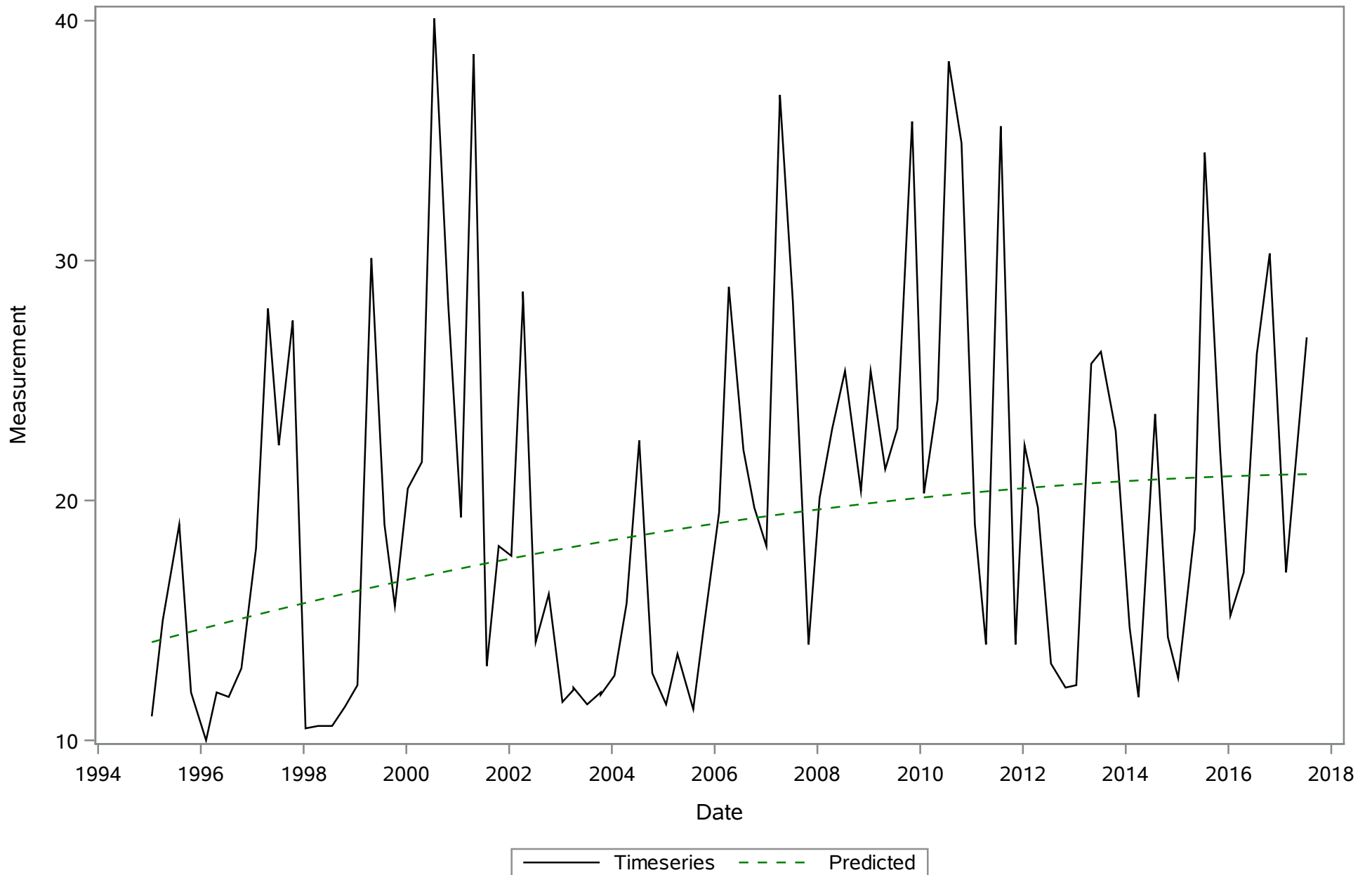
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Fluoride (Total) mg/L



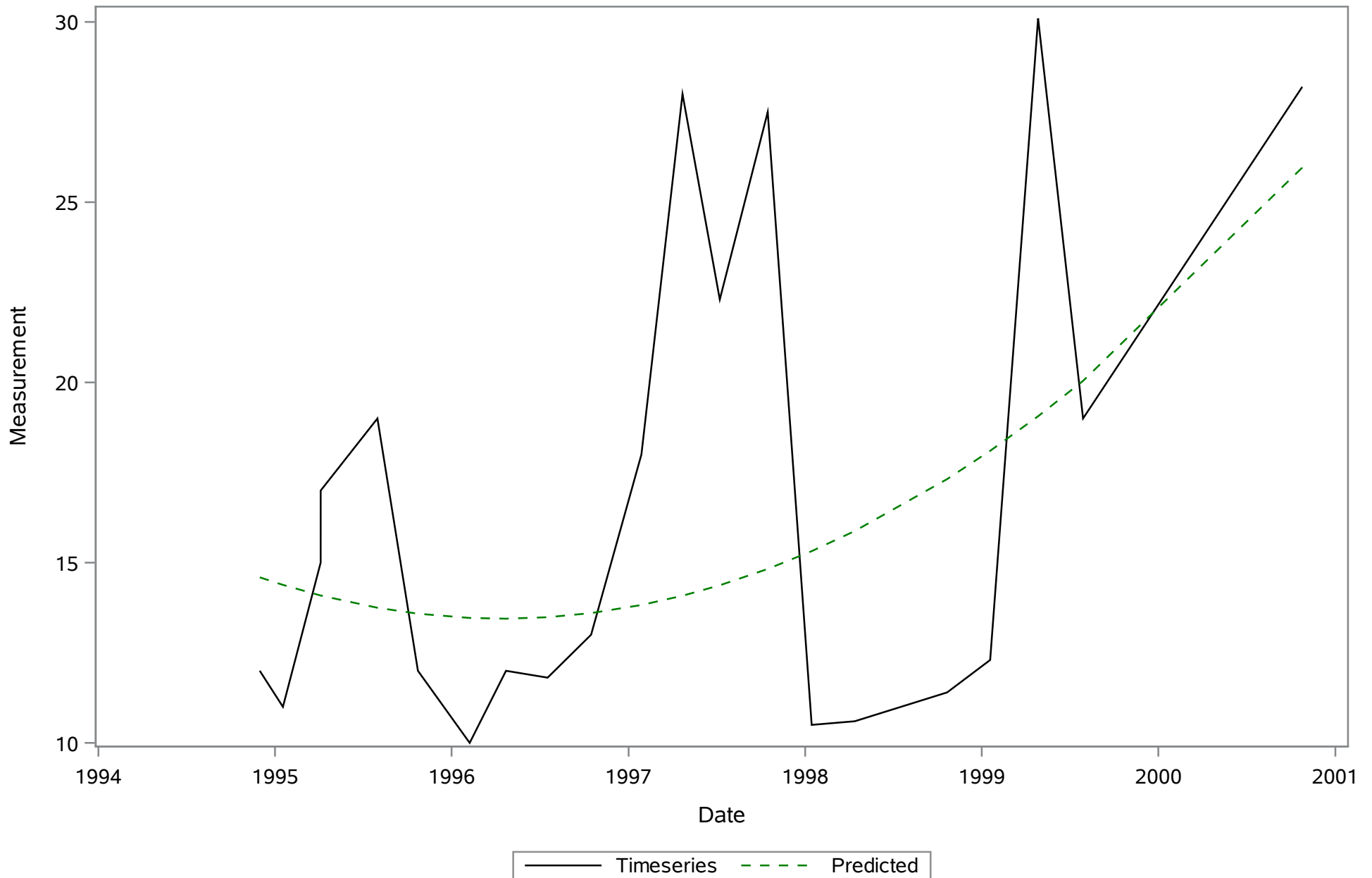
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Iron (Dissolved) ug/L



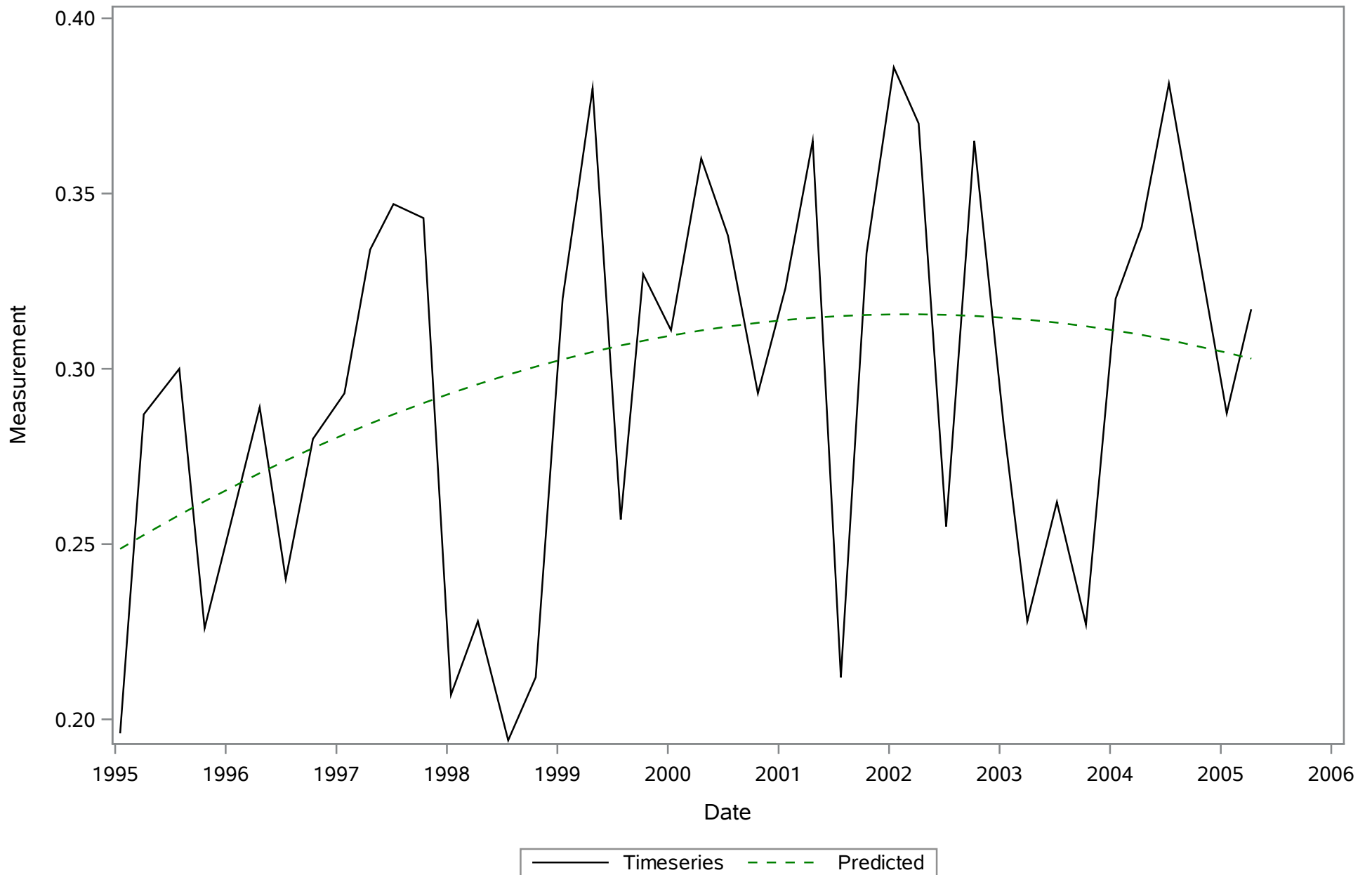
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Dissolved) mg/L



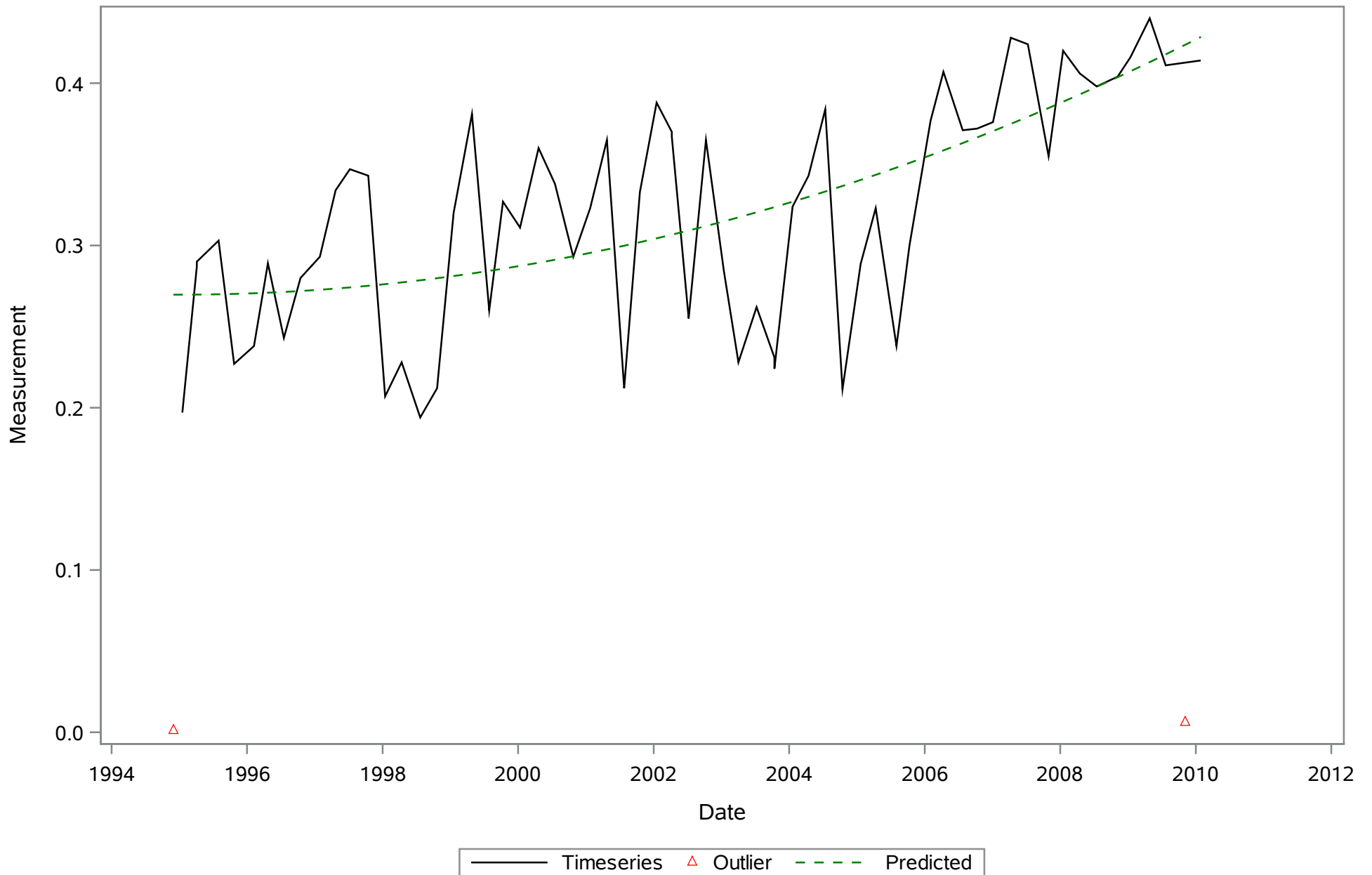
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Total) mg/L



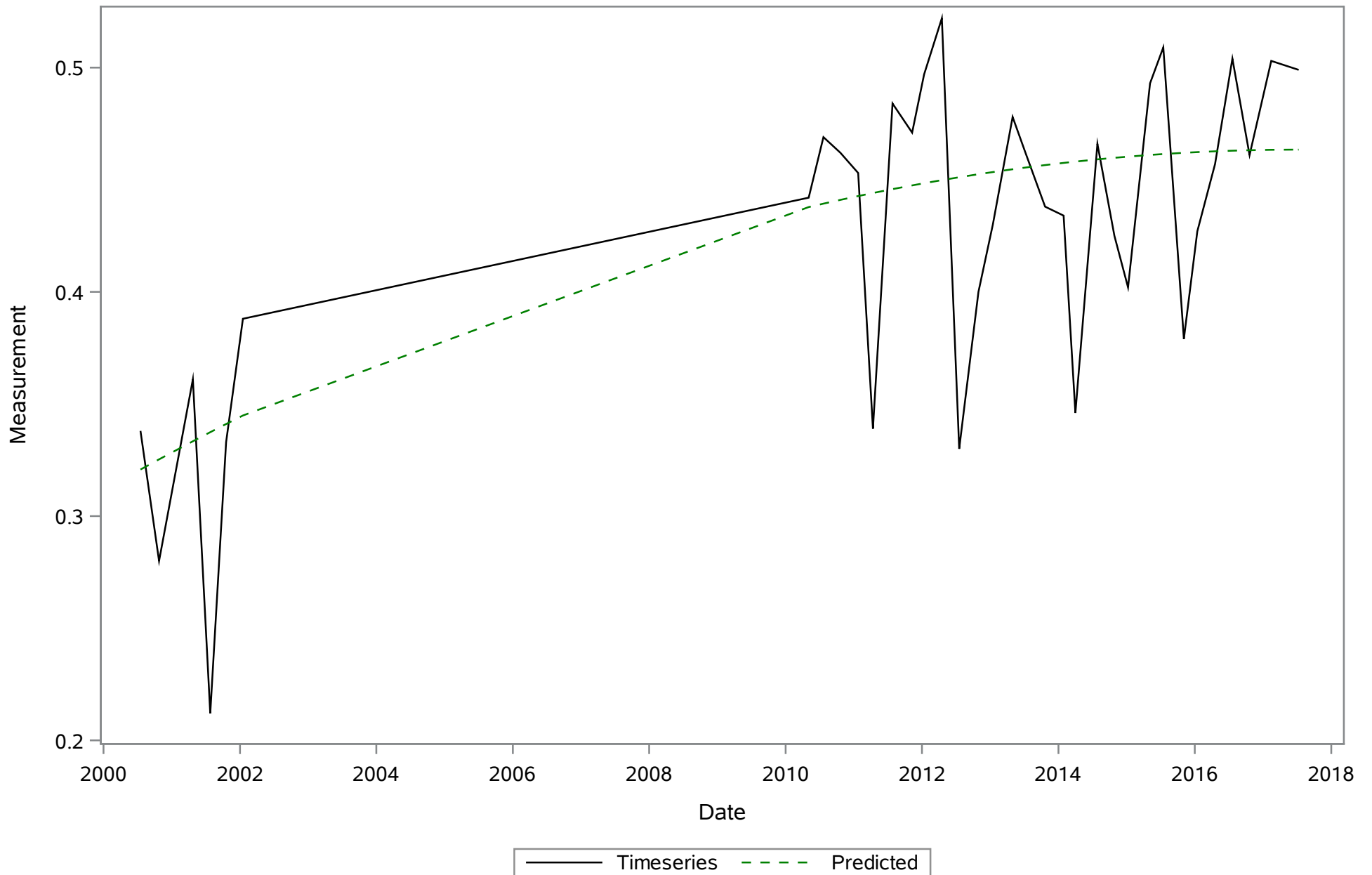
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate (N) (Dissolved) mg/L



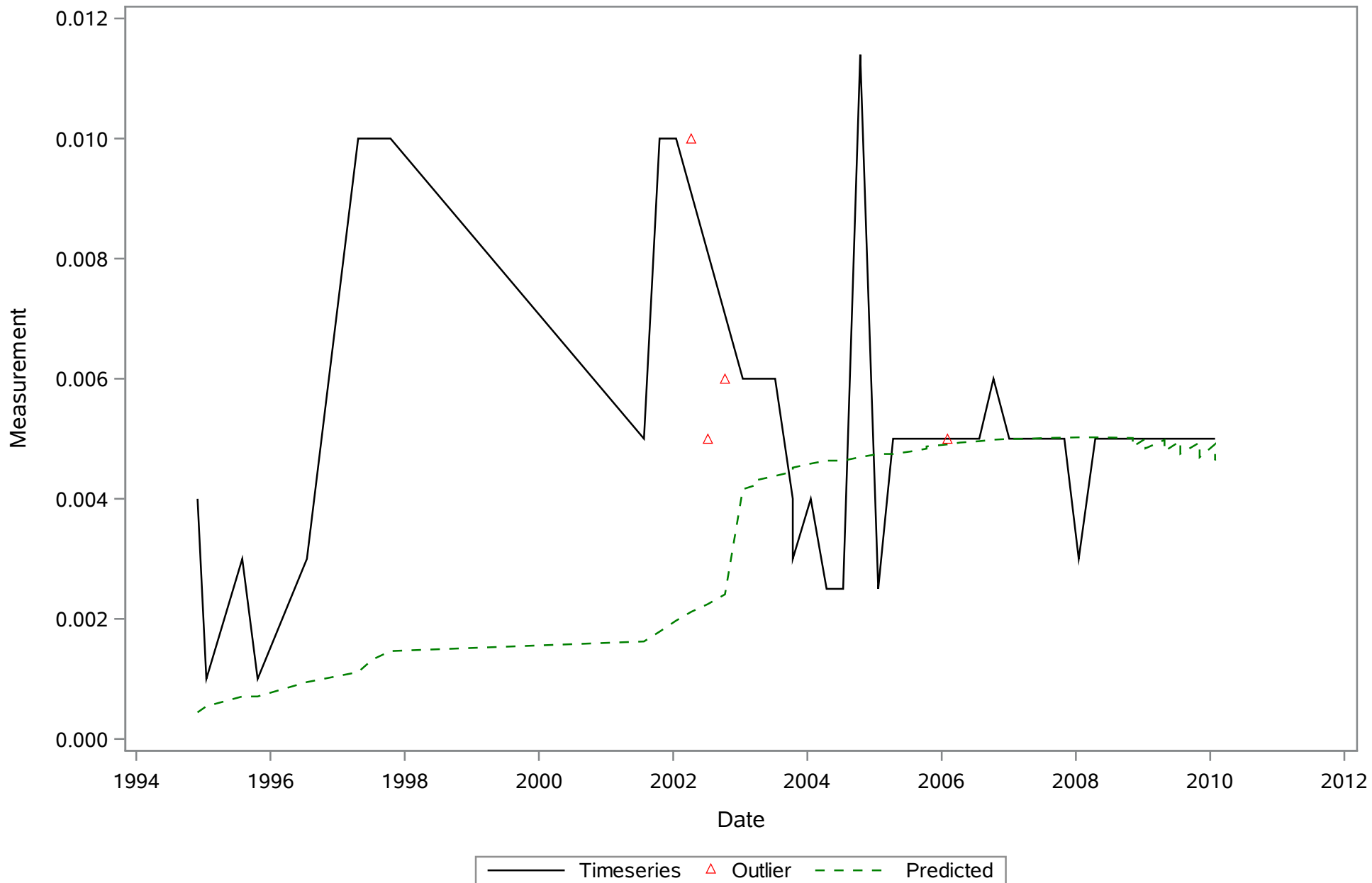
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



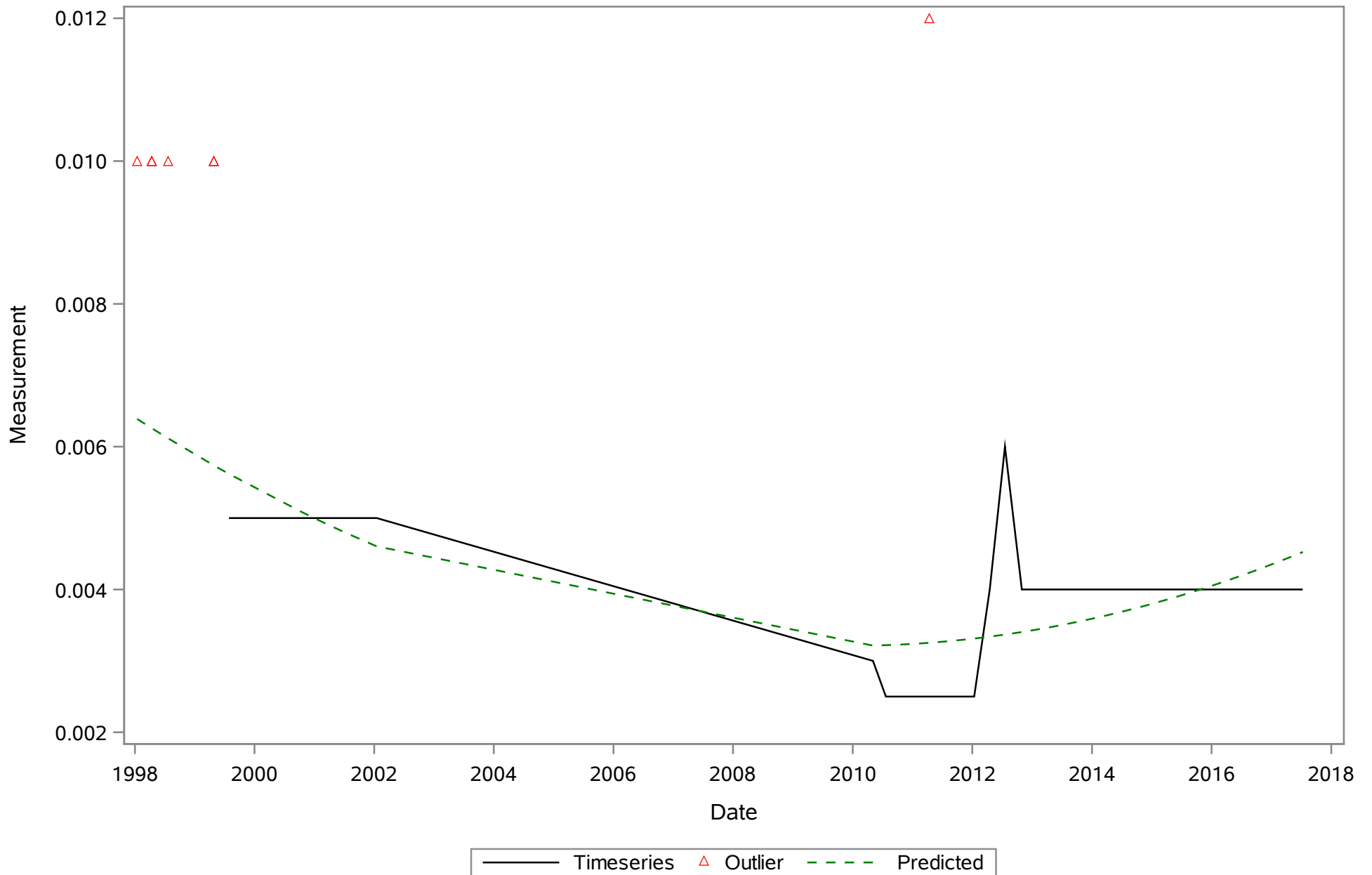
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate-Nitrite (N) (Total) mg/L



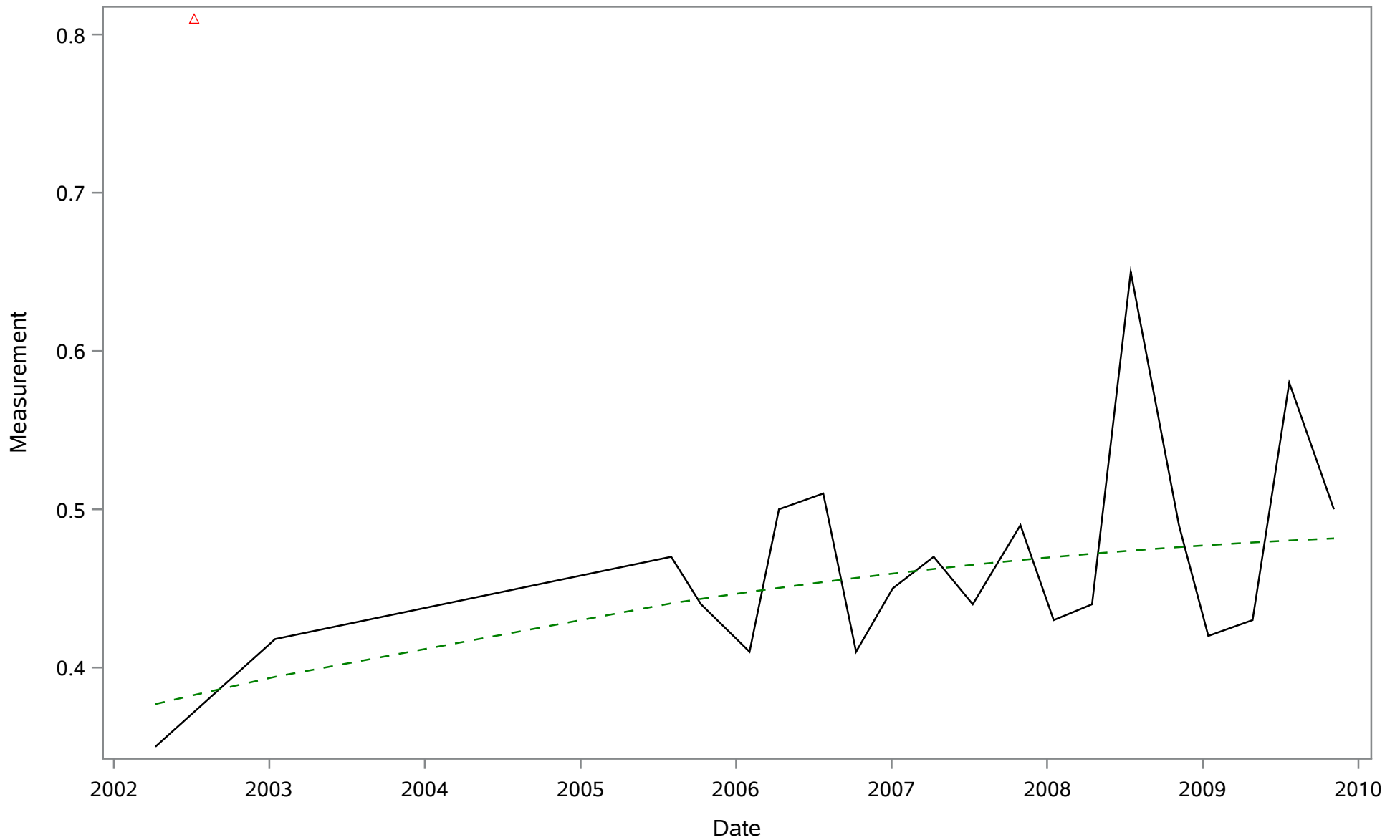
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrite (N) (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrite (N) (Total) mg/L

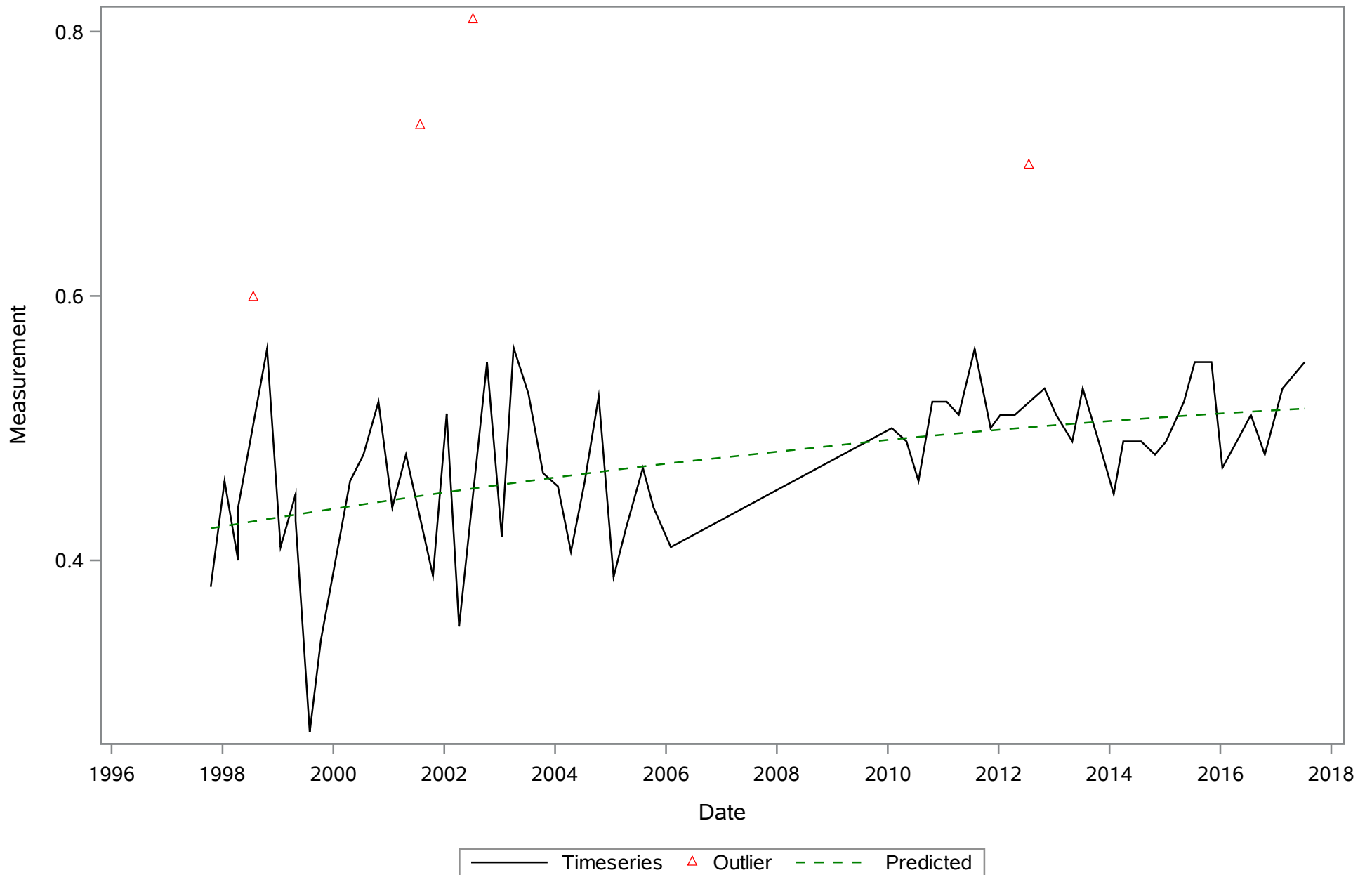


Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrogen- Total (Dissolved) mg/L

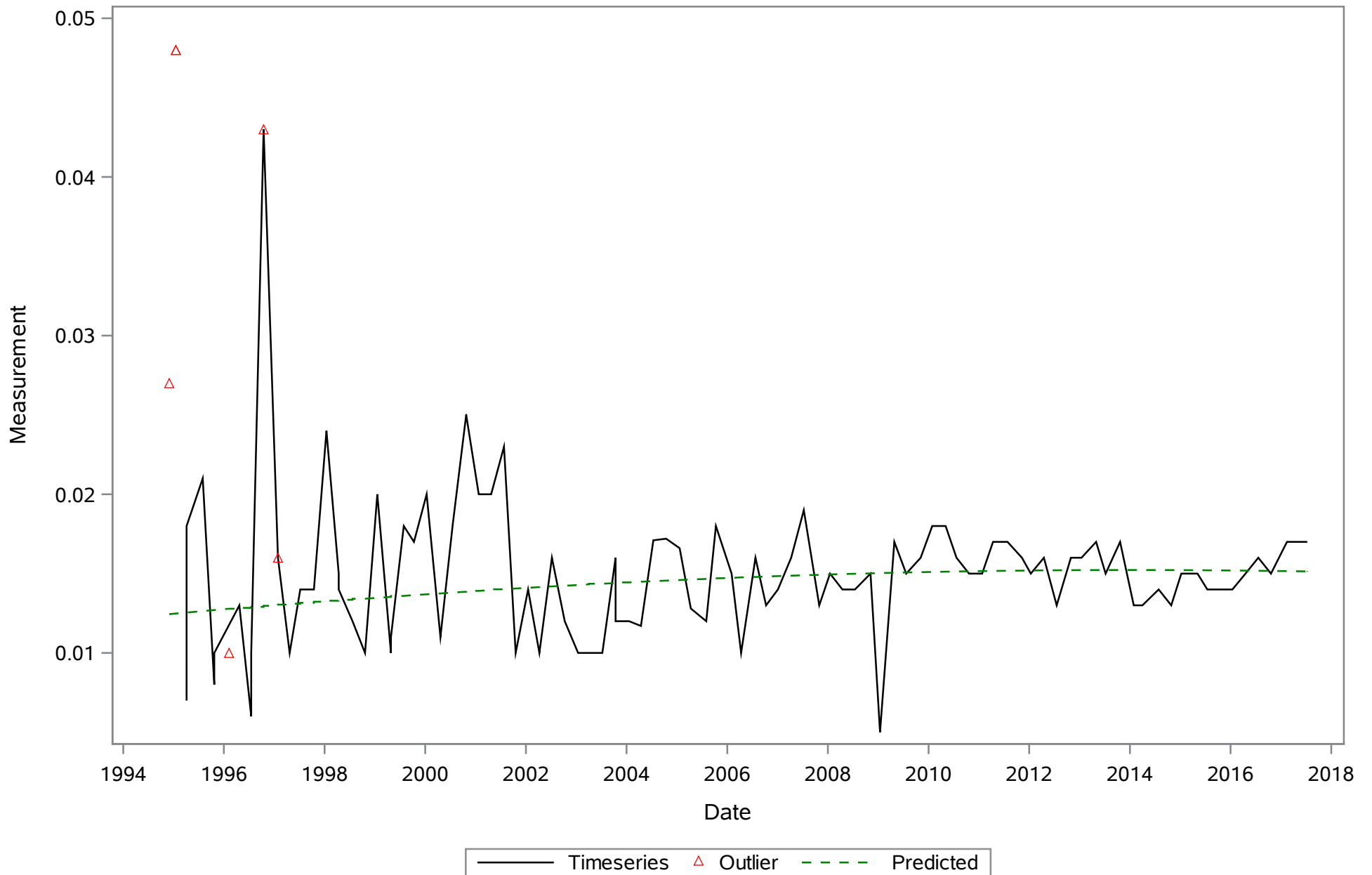


— Timeseries ▲ Outlier - - - Predicted

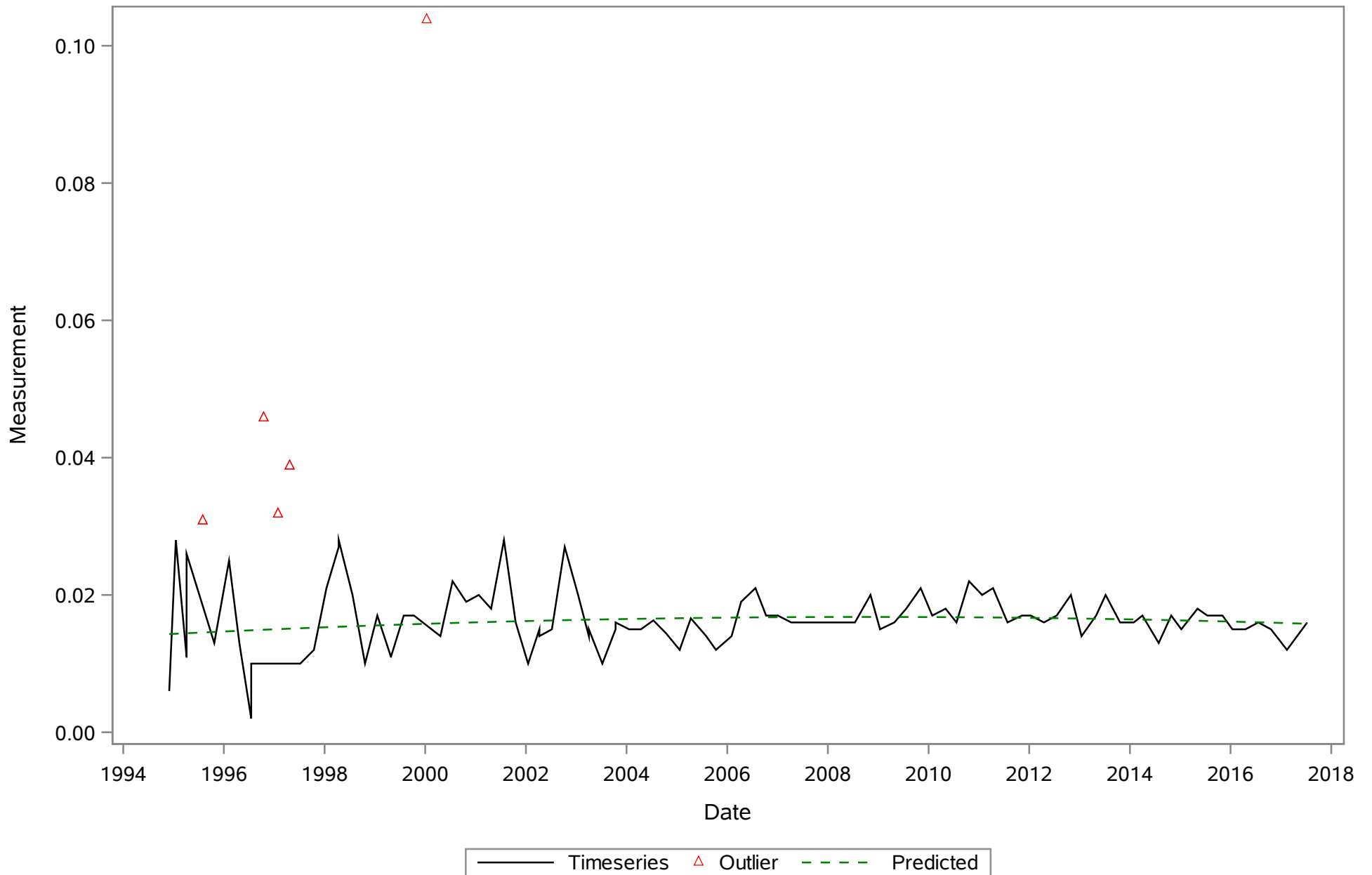
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrogen- Total (Total) mg/L



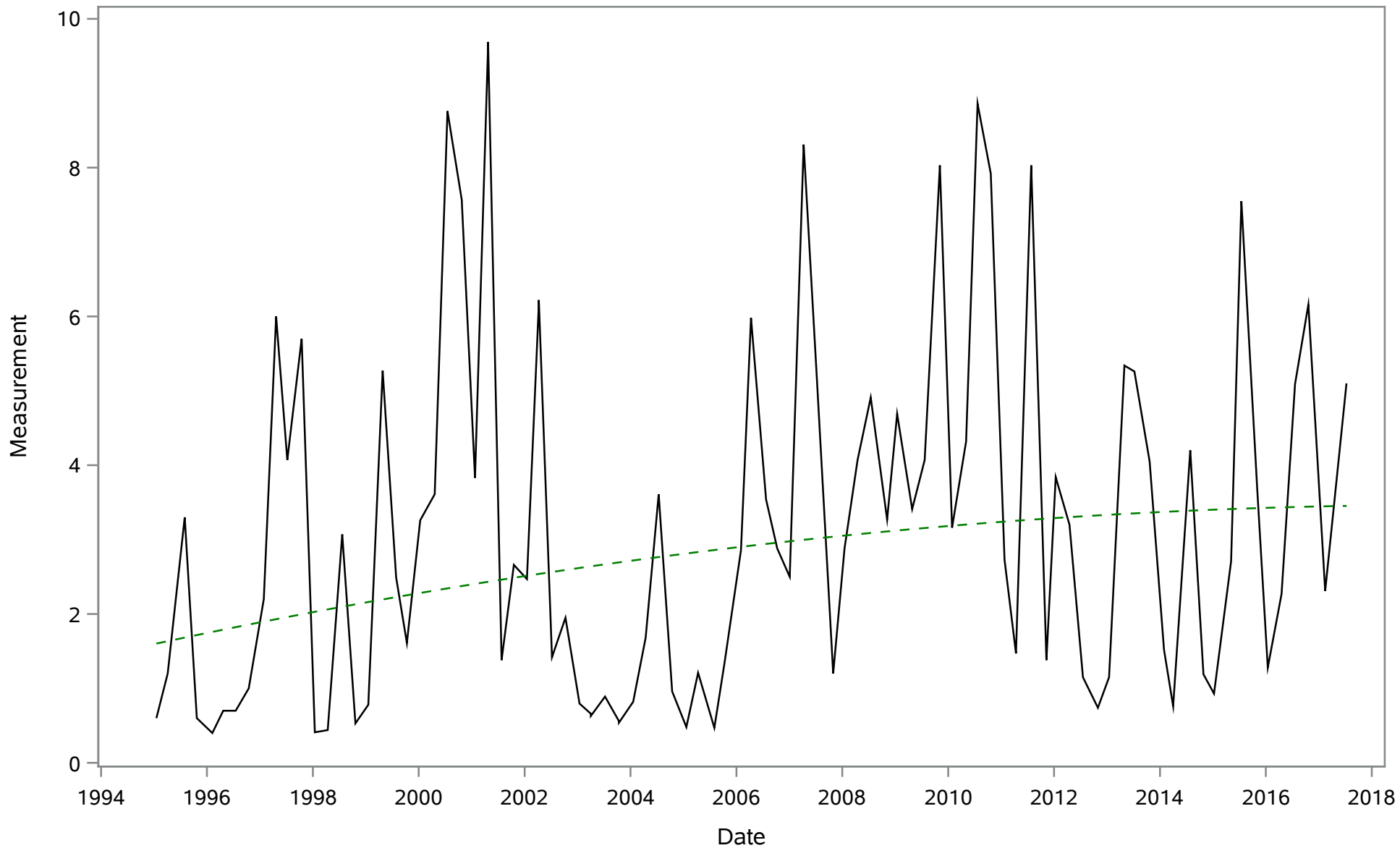
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Orthophosphate (P) (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Phosphorus- Total (Total) mg/L

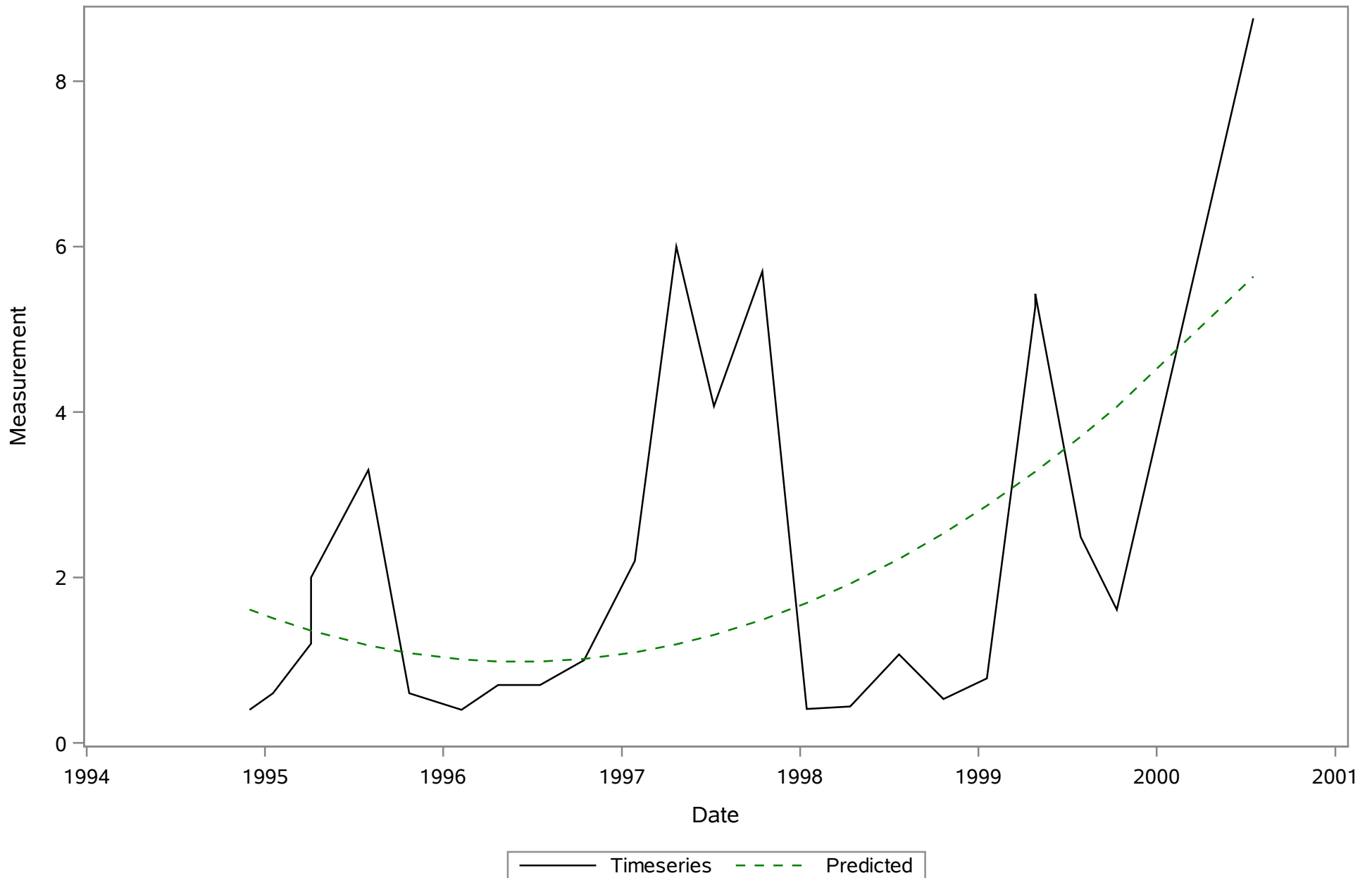


Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Dissolved) mg/L

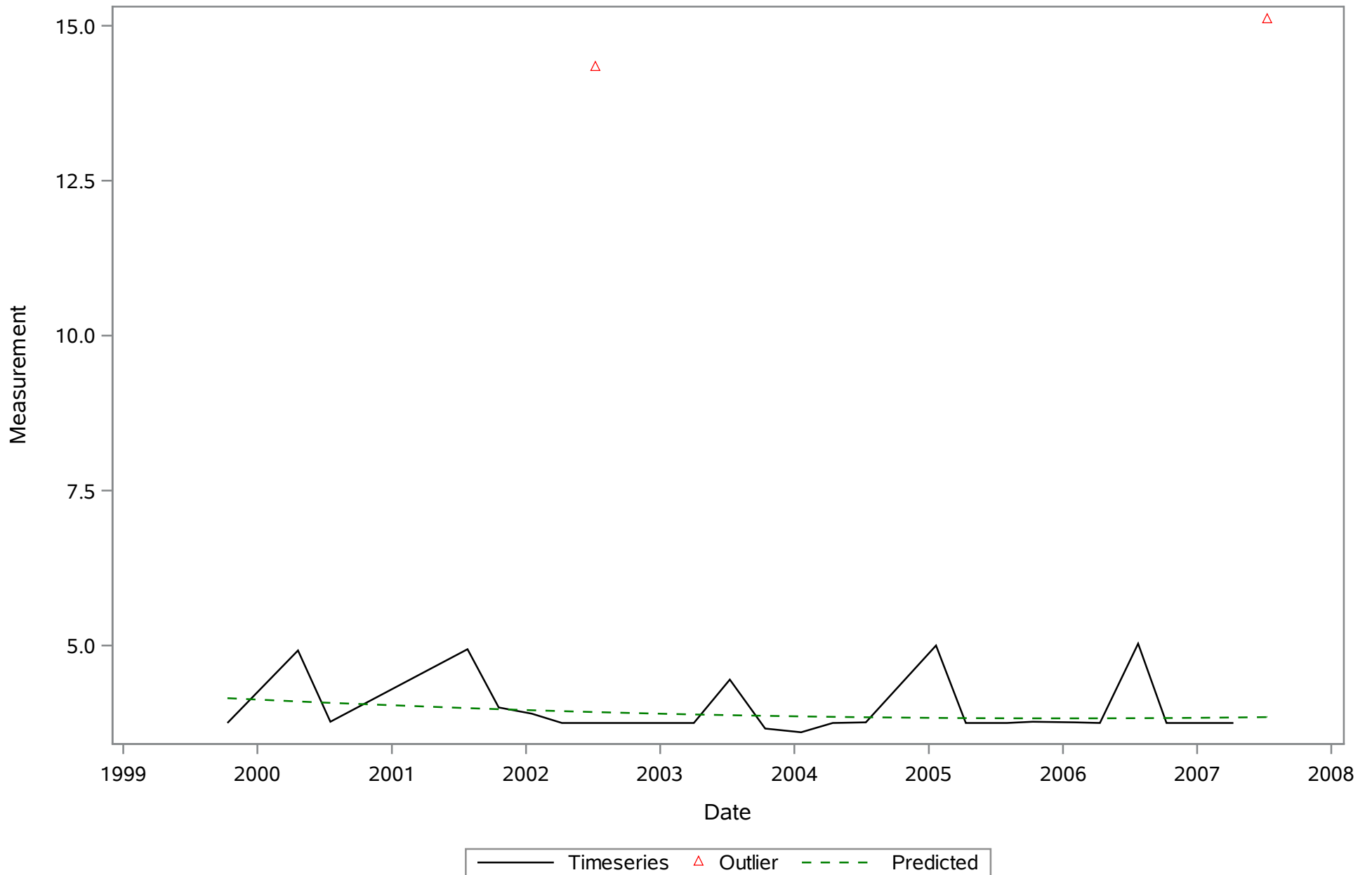


— Timeseries - - - Predicted

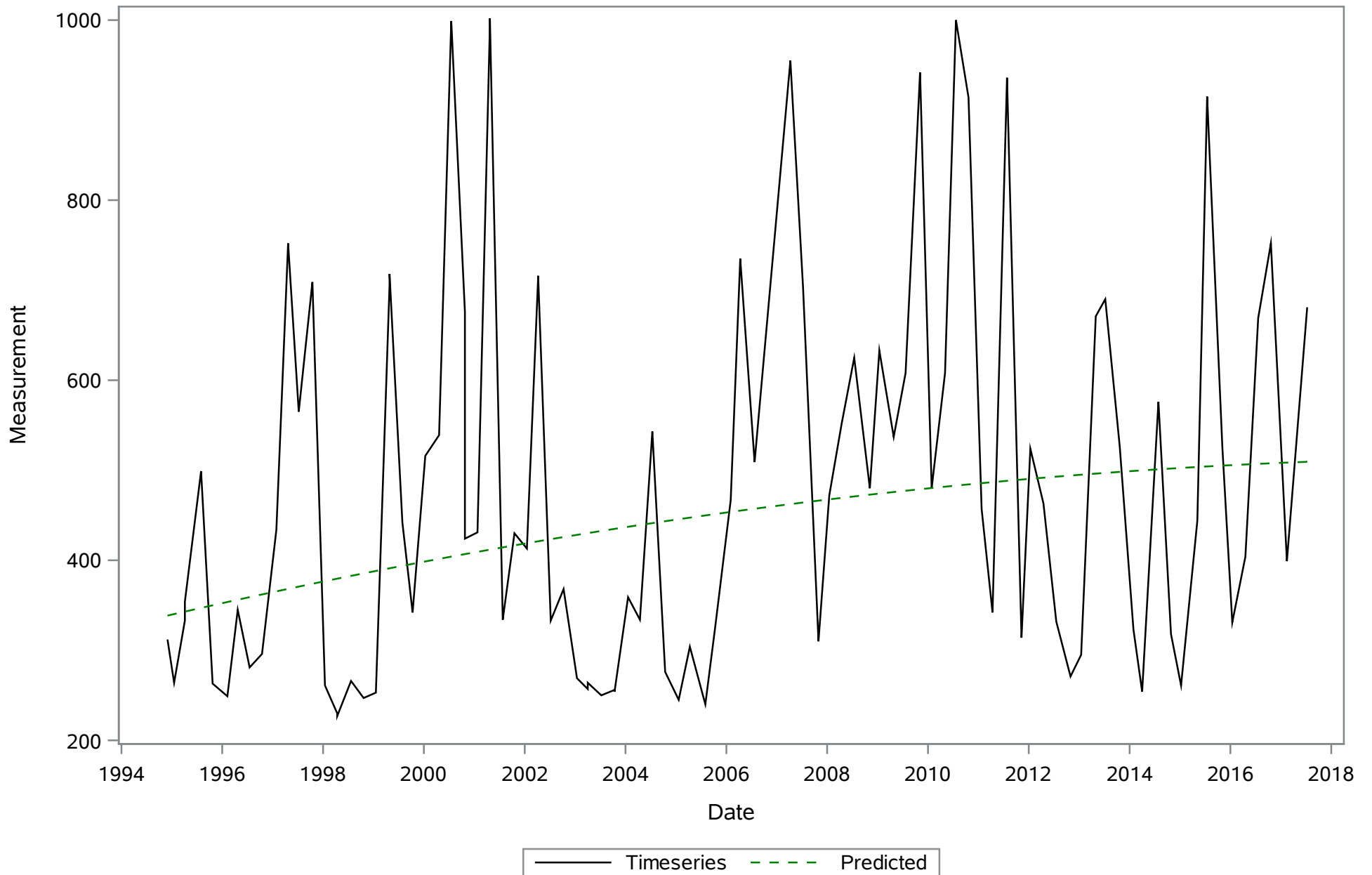
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Total) mg/L



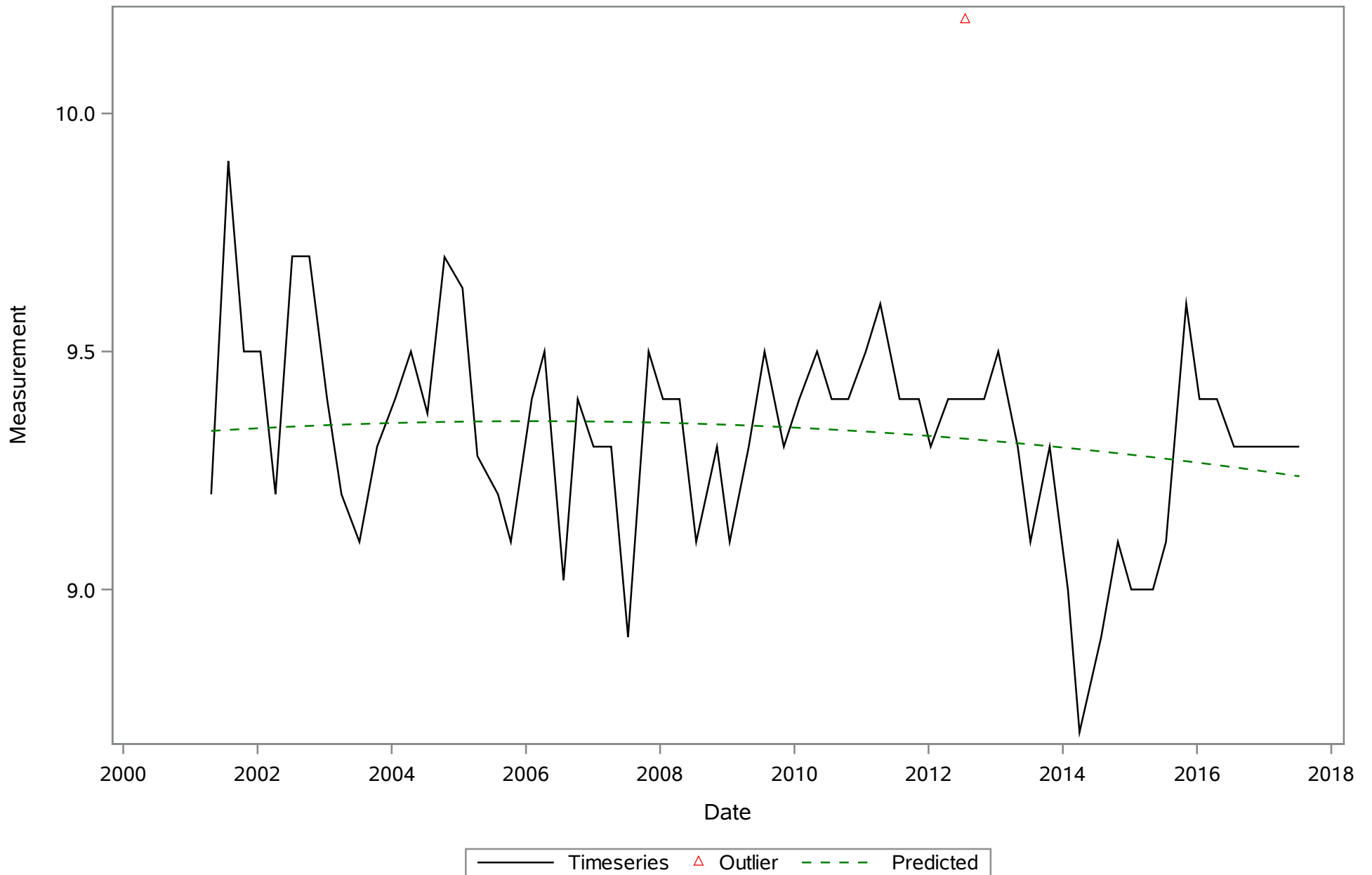
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Purge Volume (Total) Gallons



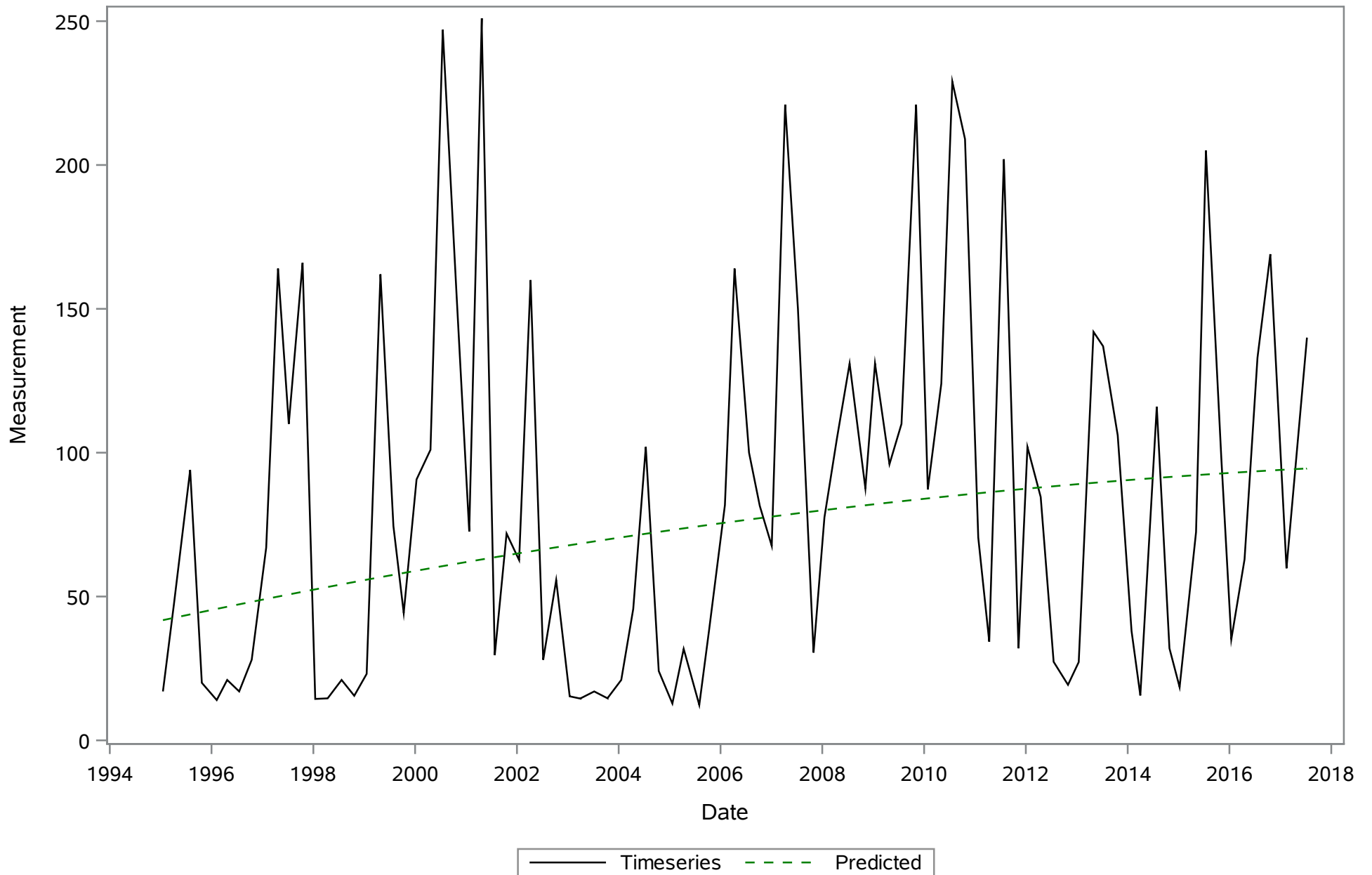
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Residues- Filterable (TDS) (Dissolved) mg/L



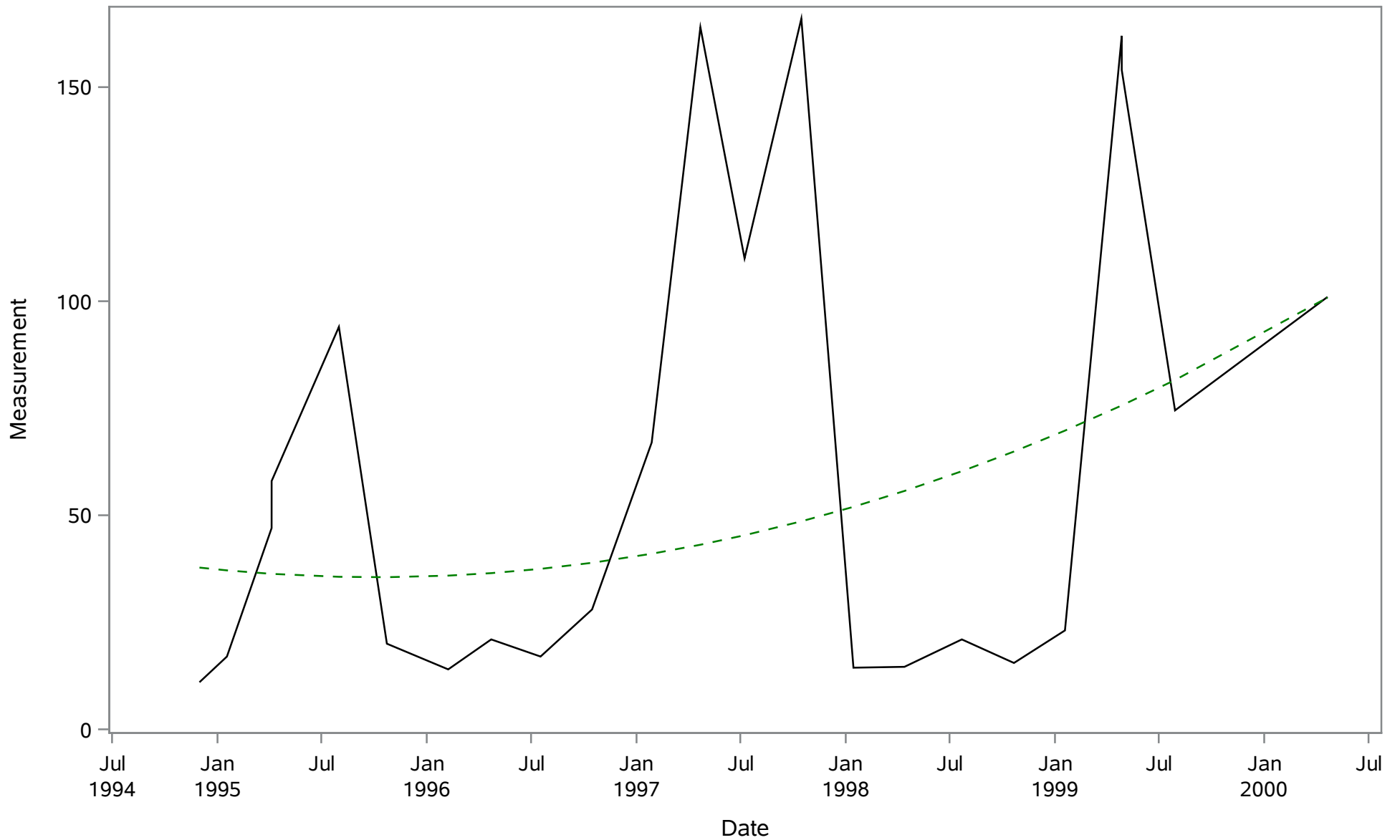
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Silica- Dissolved (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Dissolved) mg/L

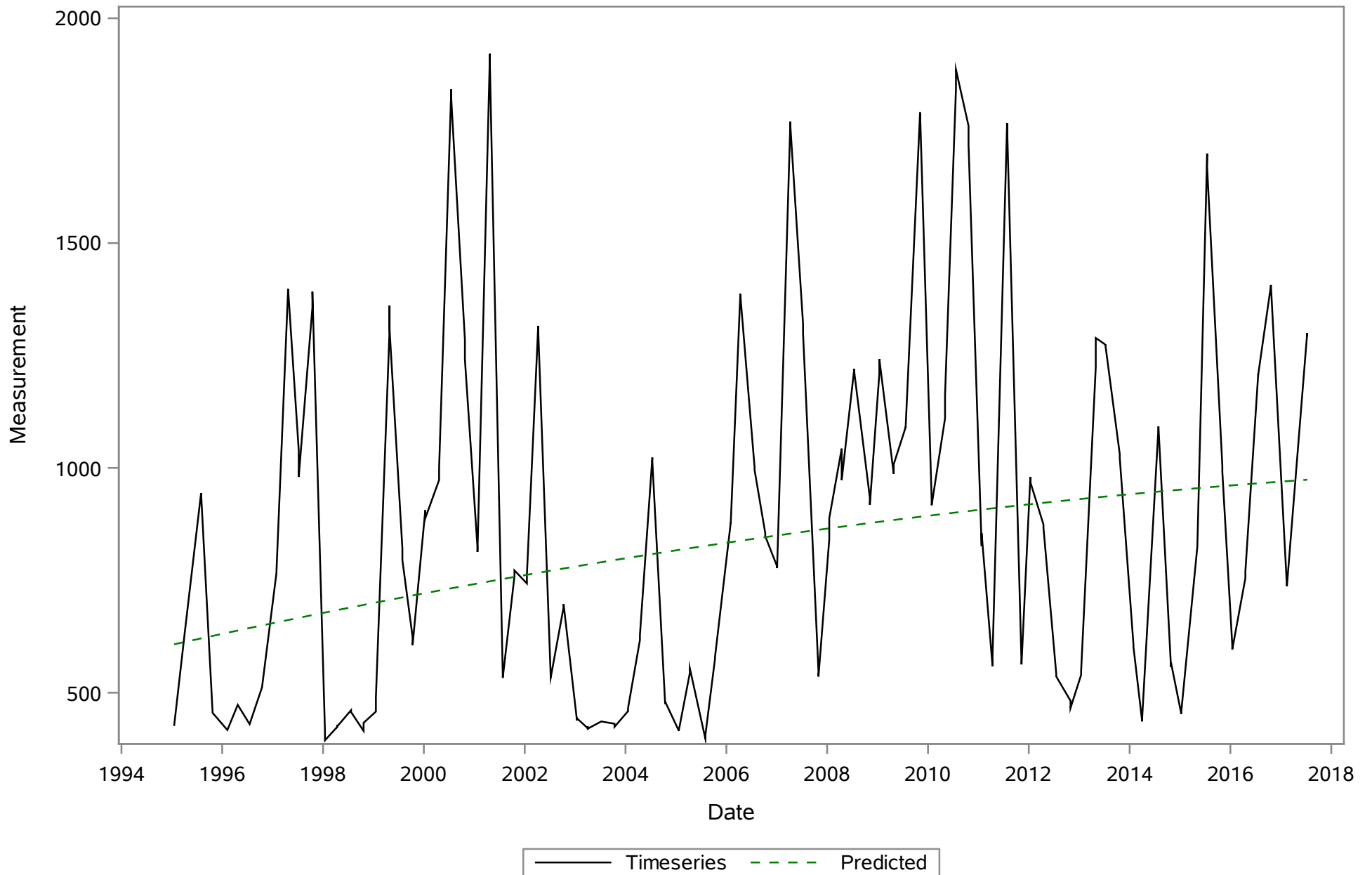


Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Total) mg/L

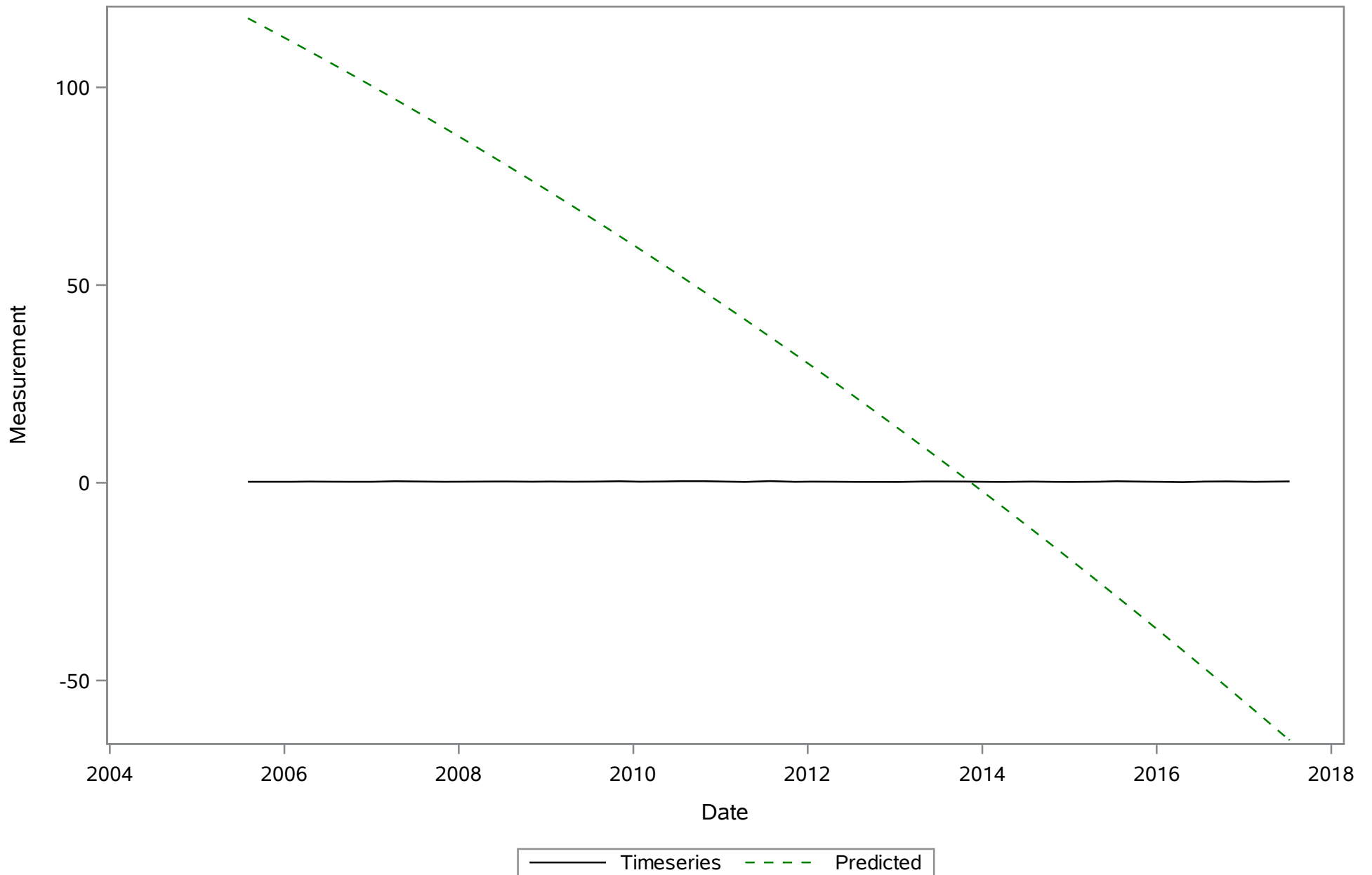


— Timeseries - - - Predicted

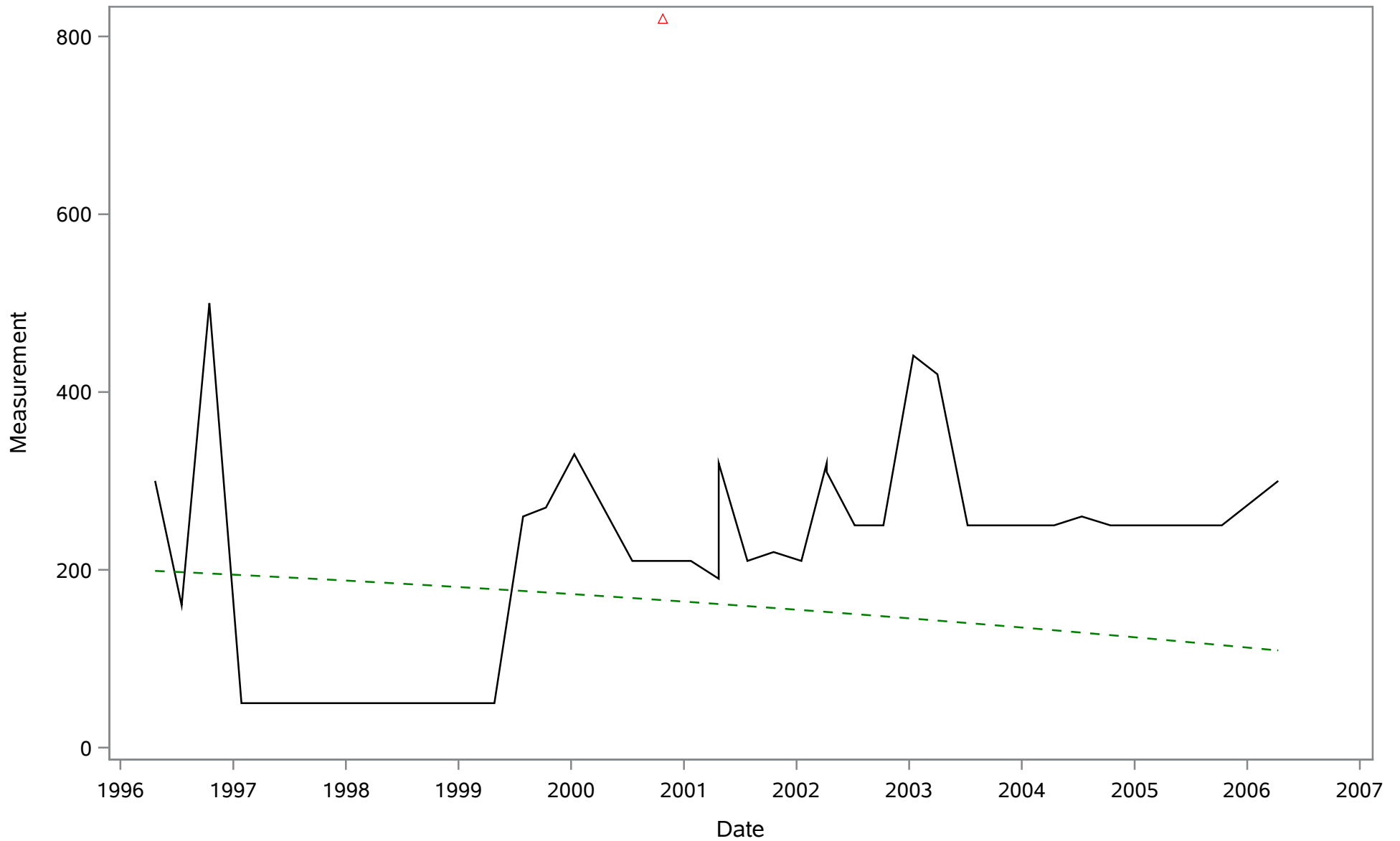
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Specific Conductance (Total) uS/cm



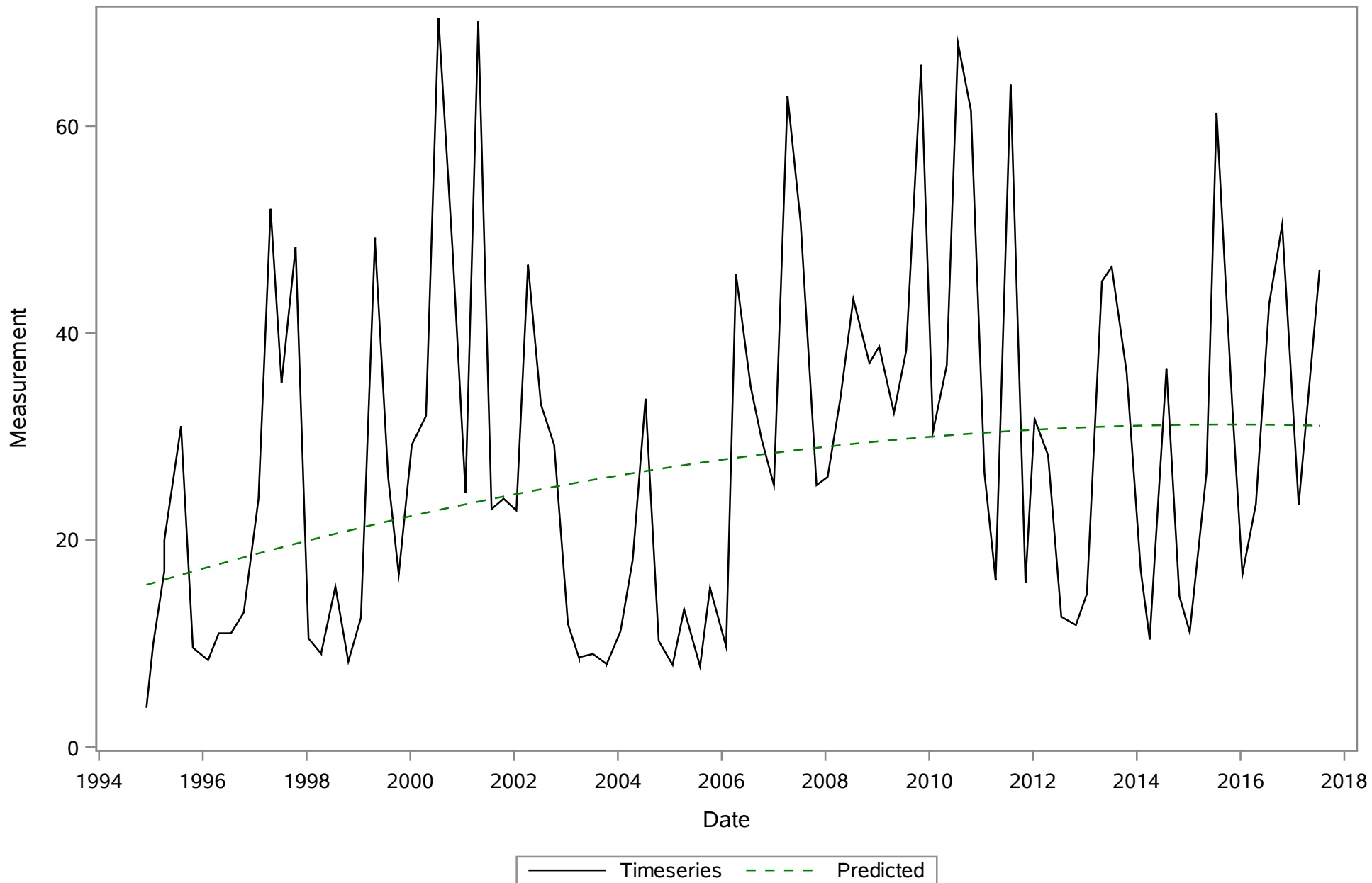
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Strontium (Dissolved) mg/L



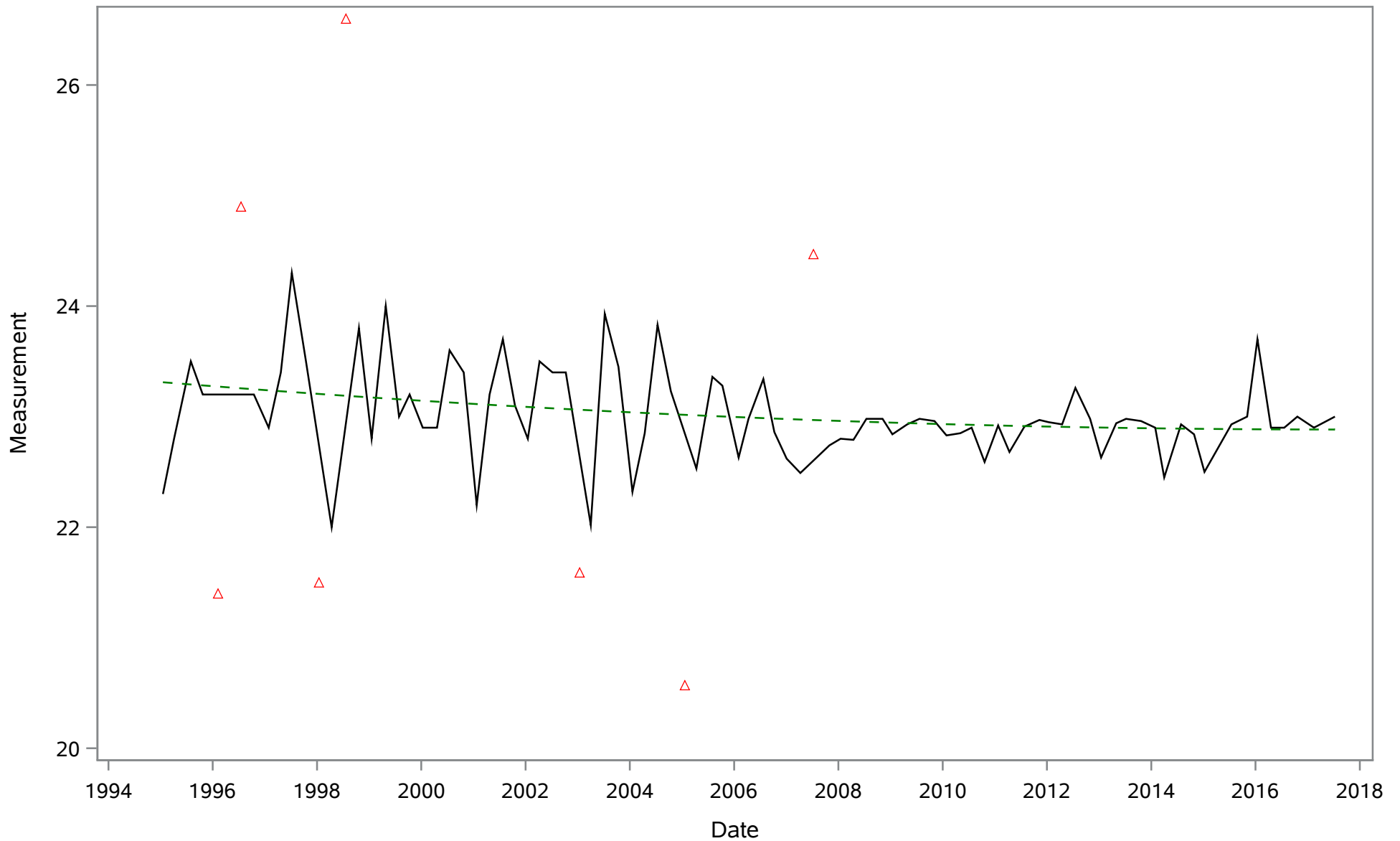
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Strontium (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Sulfate (Dissolved) mg/L

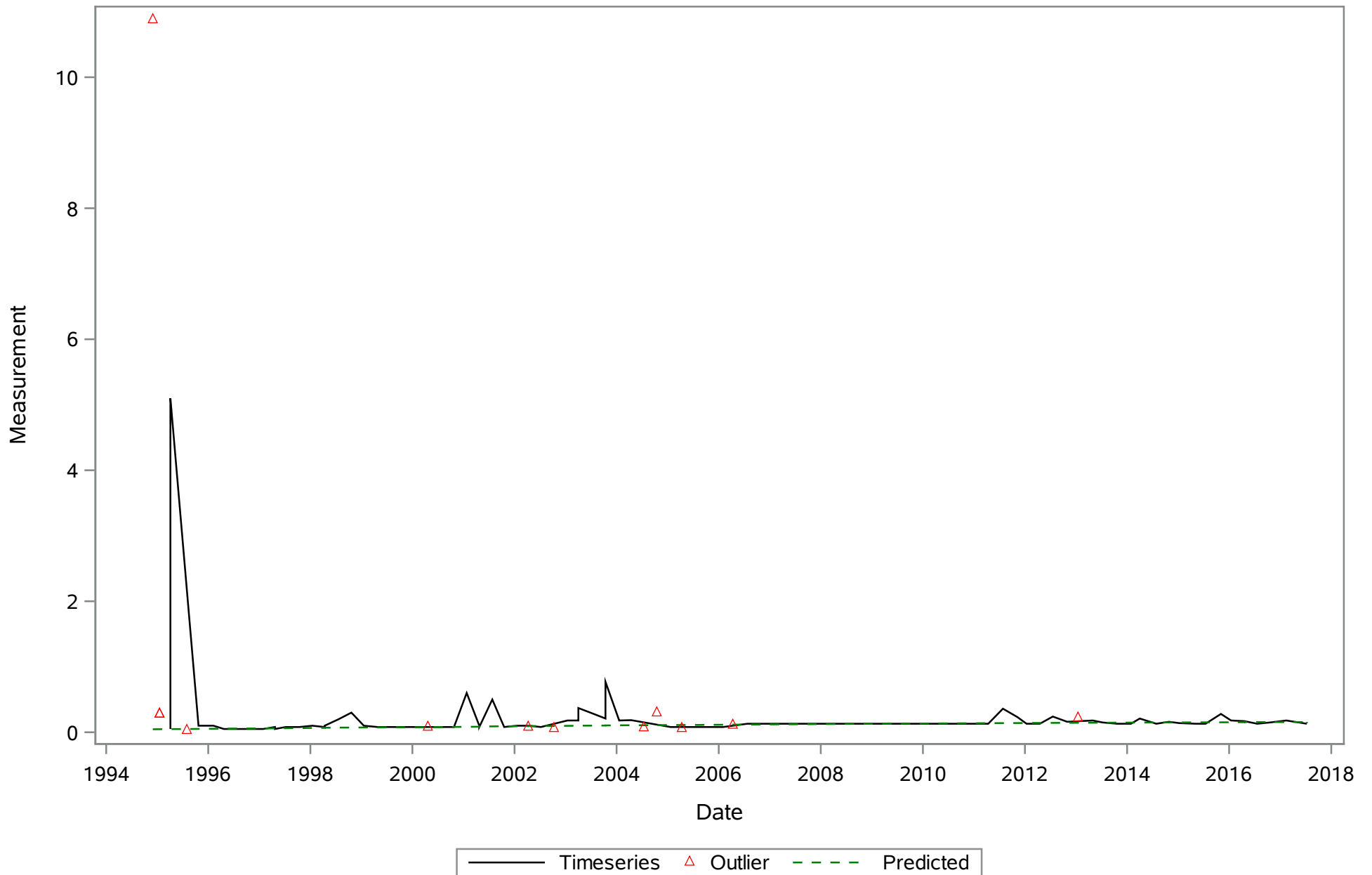


Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Temperature (Total) Deg. C

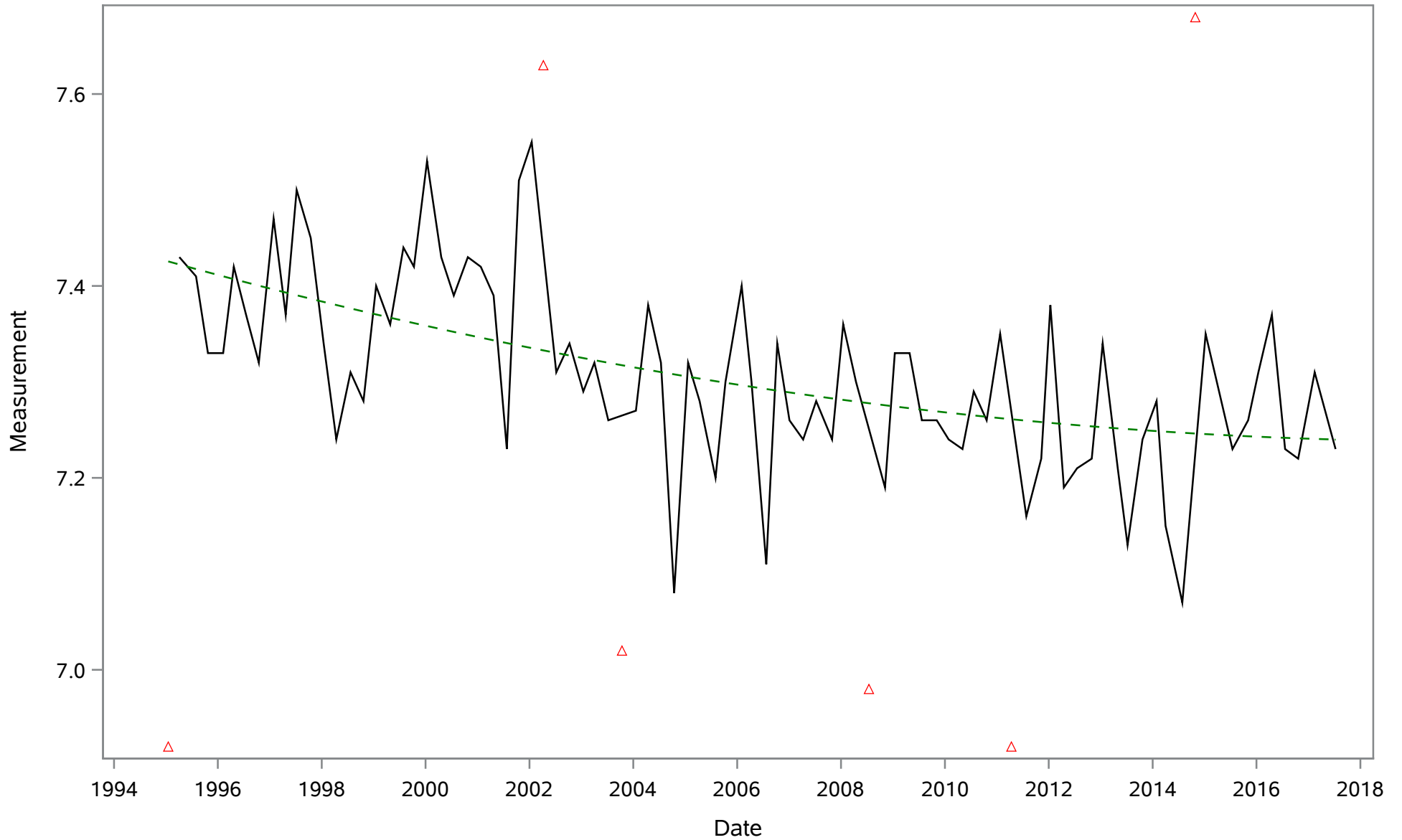


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Turbidity (Total) NTU

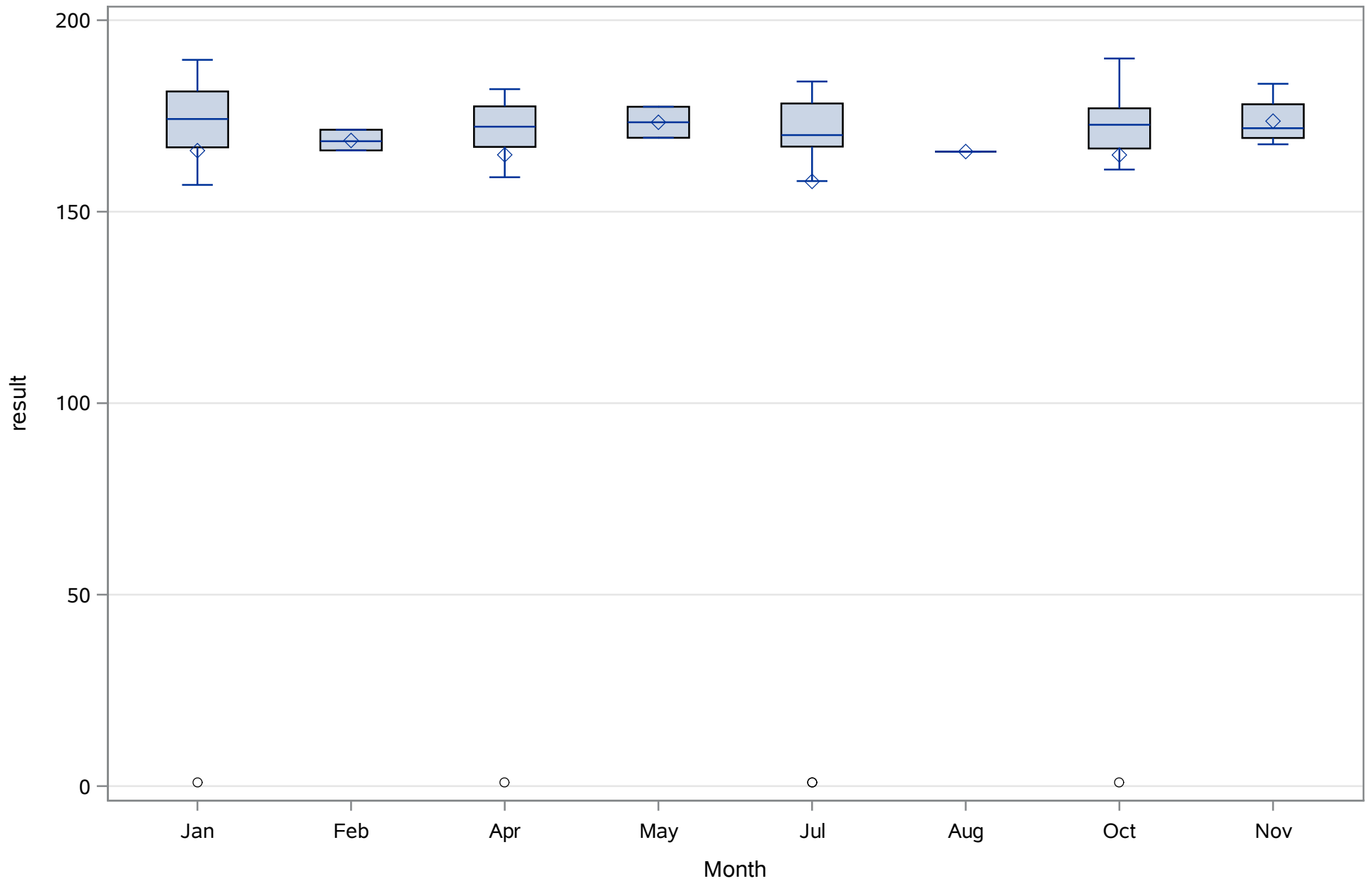


Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
pH (Total) SU

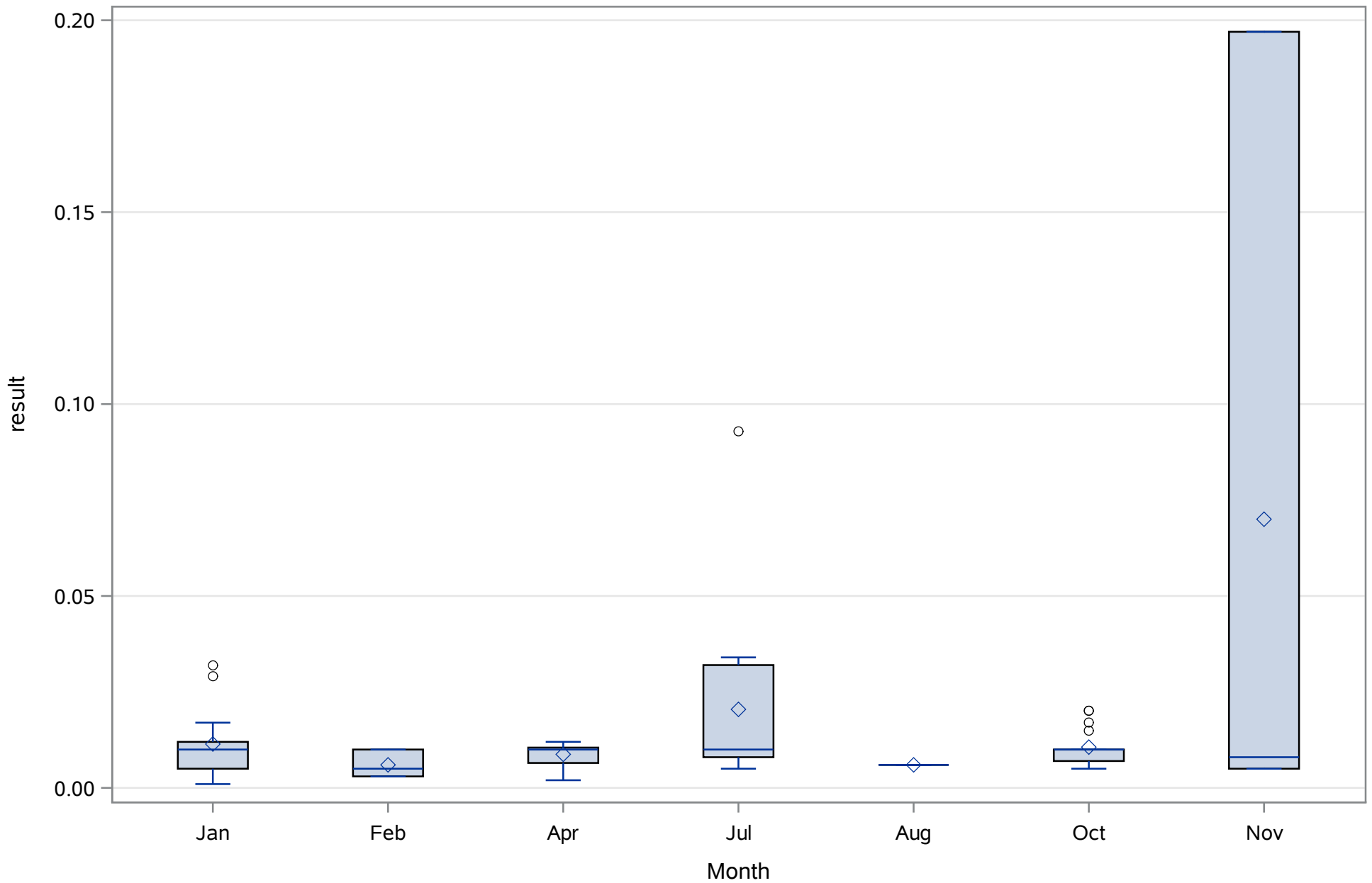


— Timeseries △ Outlier - - - Predicted

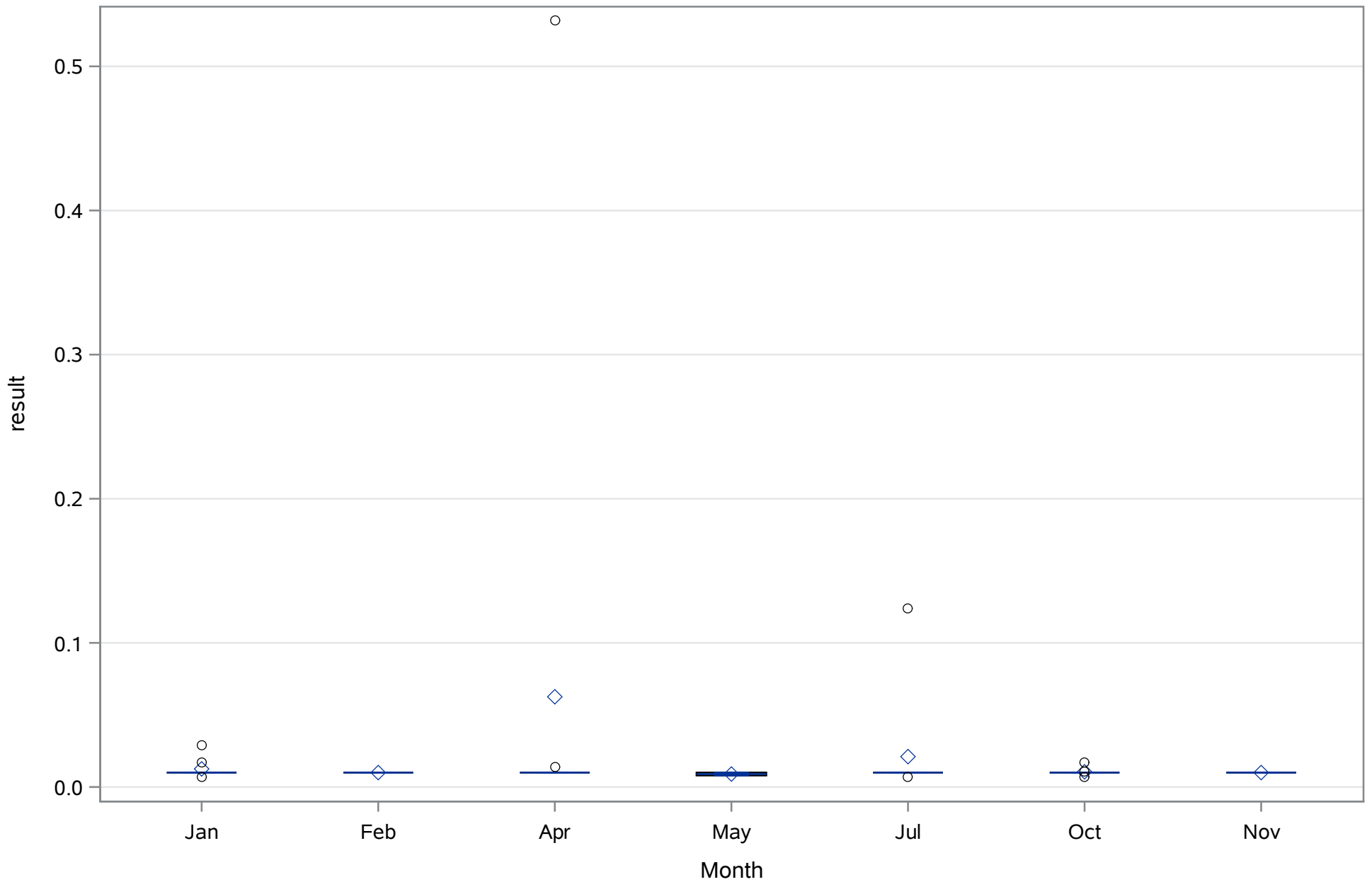
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Alkalinity (Total) mg/L



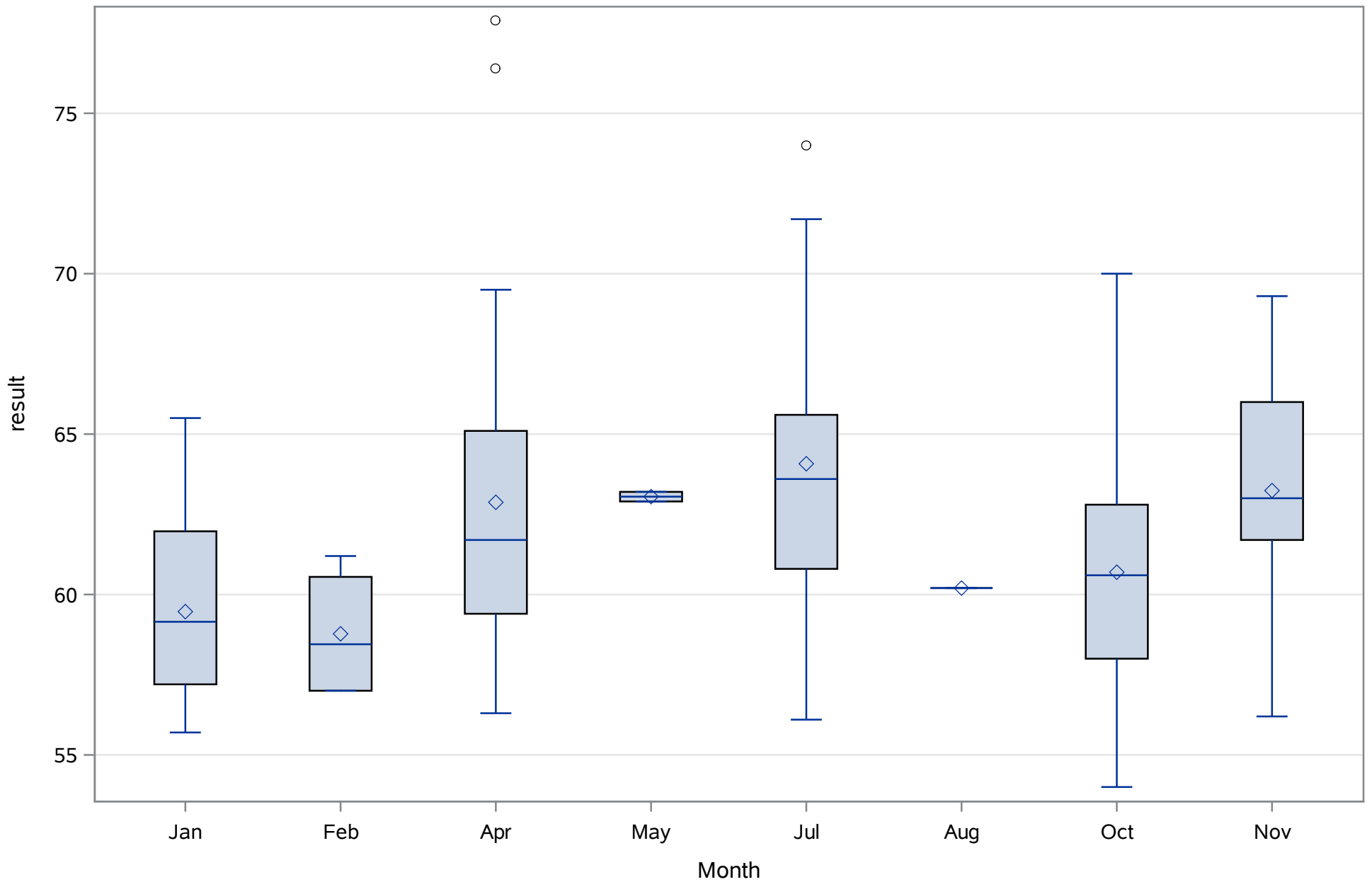
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Ammonia (N) (Dissolved) mg/L



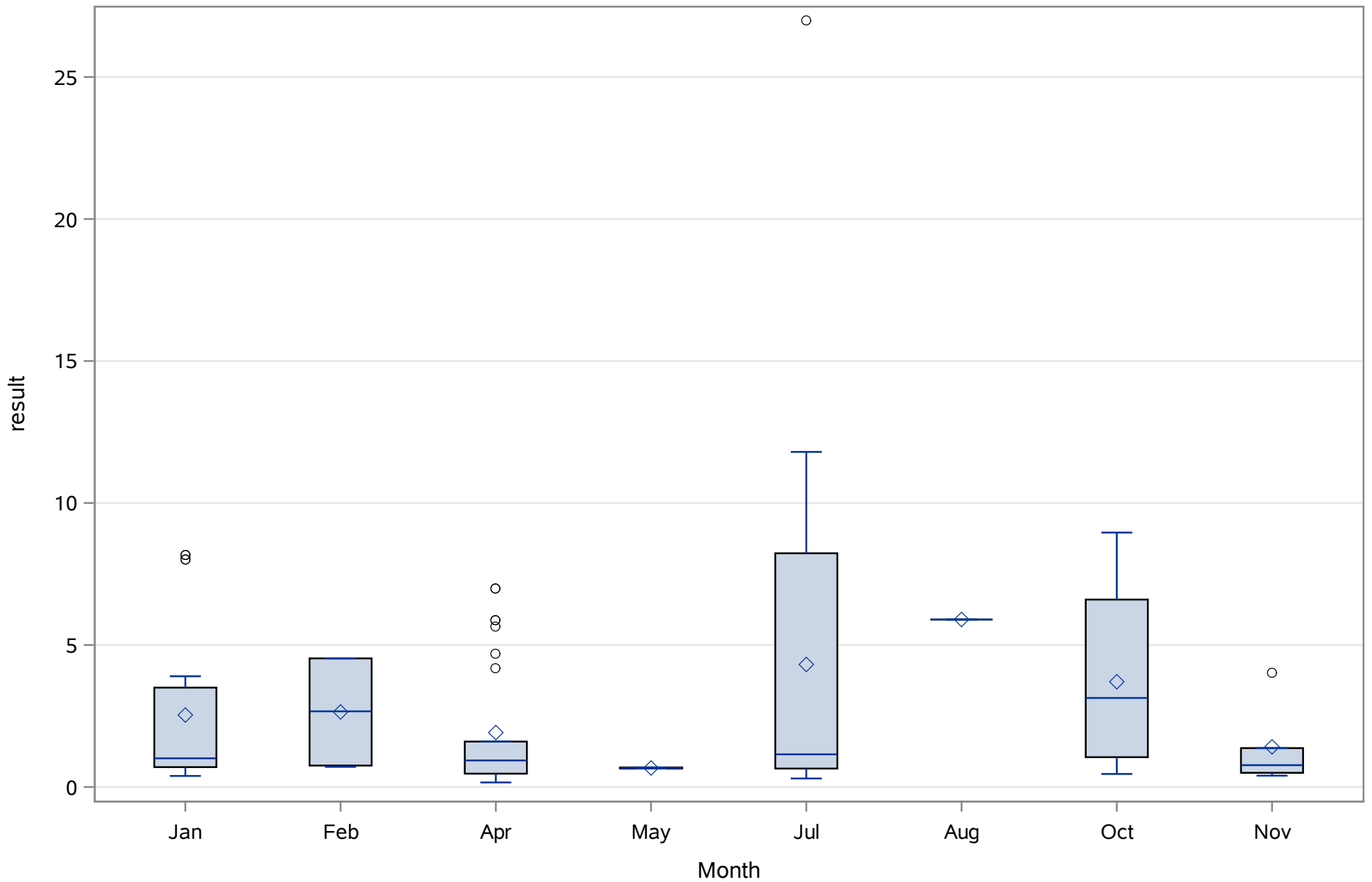
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Ammonia (N) (Total) mg/L



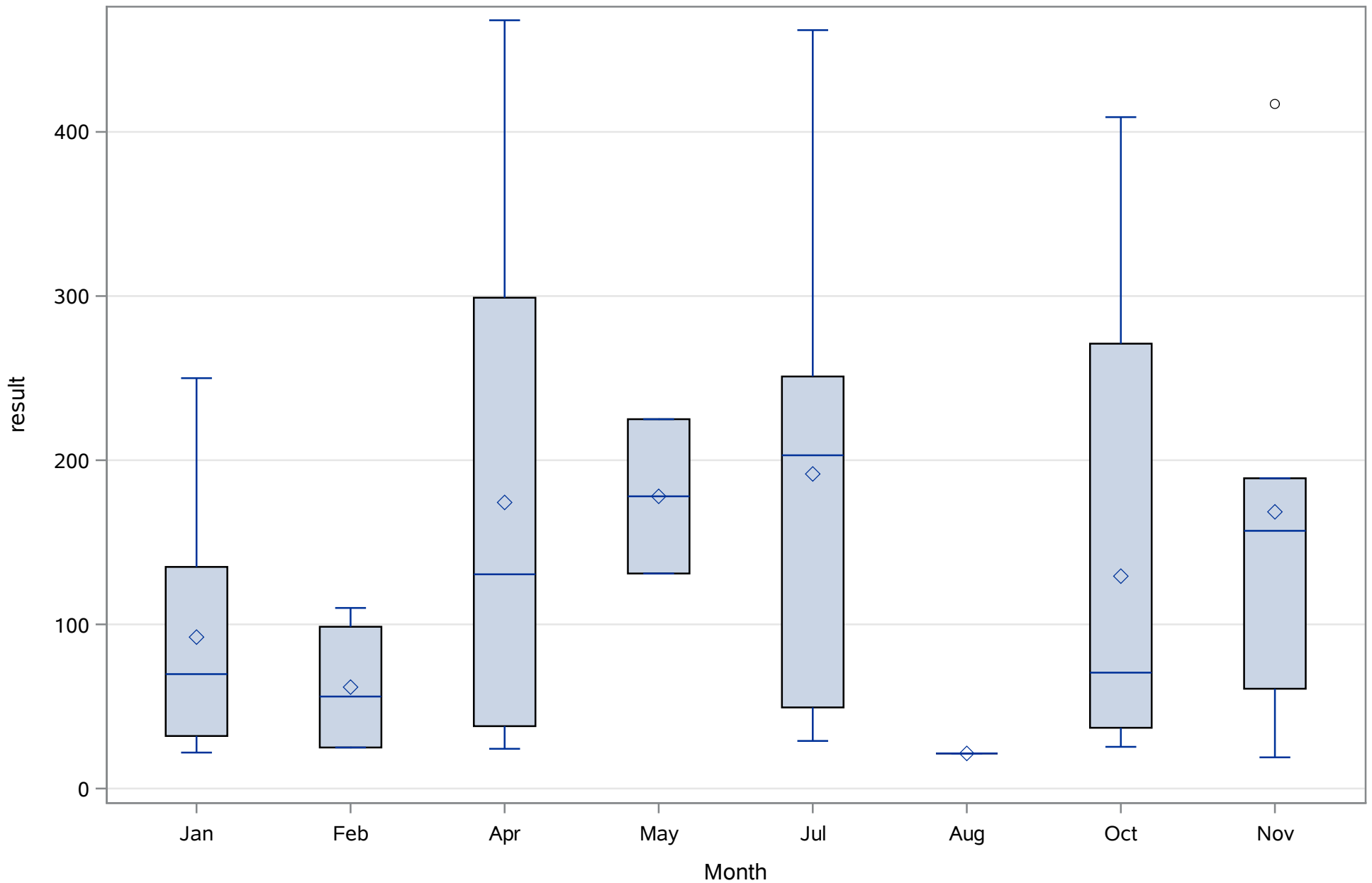
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Calcium (Dissolved) mg/L



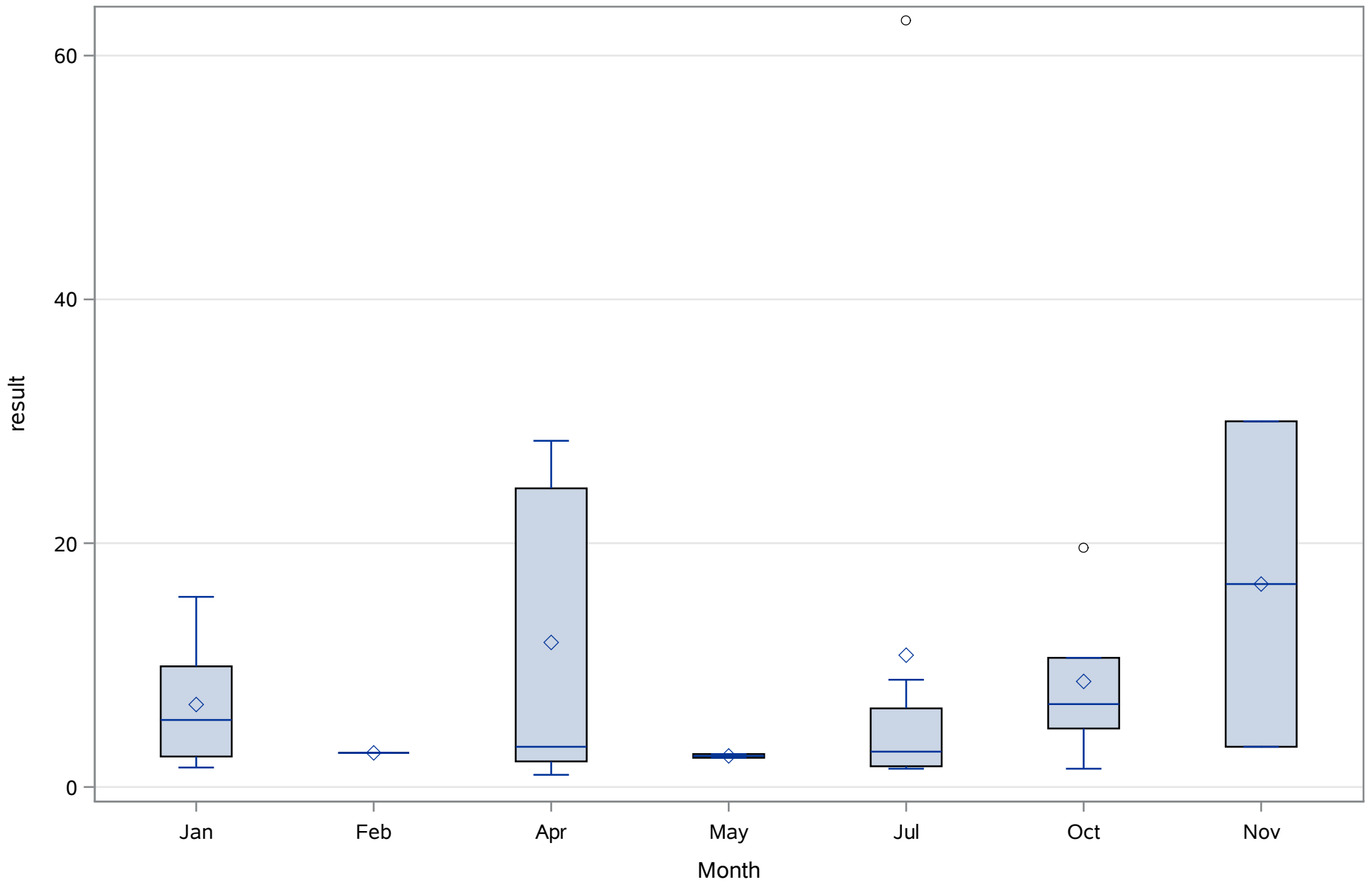
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Carbon- Total Organic (Total) mg/L



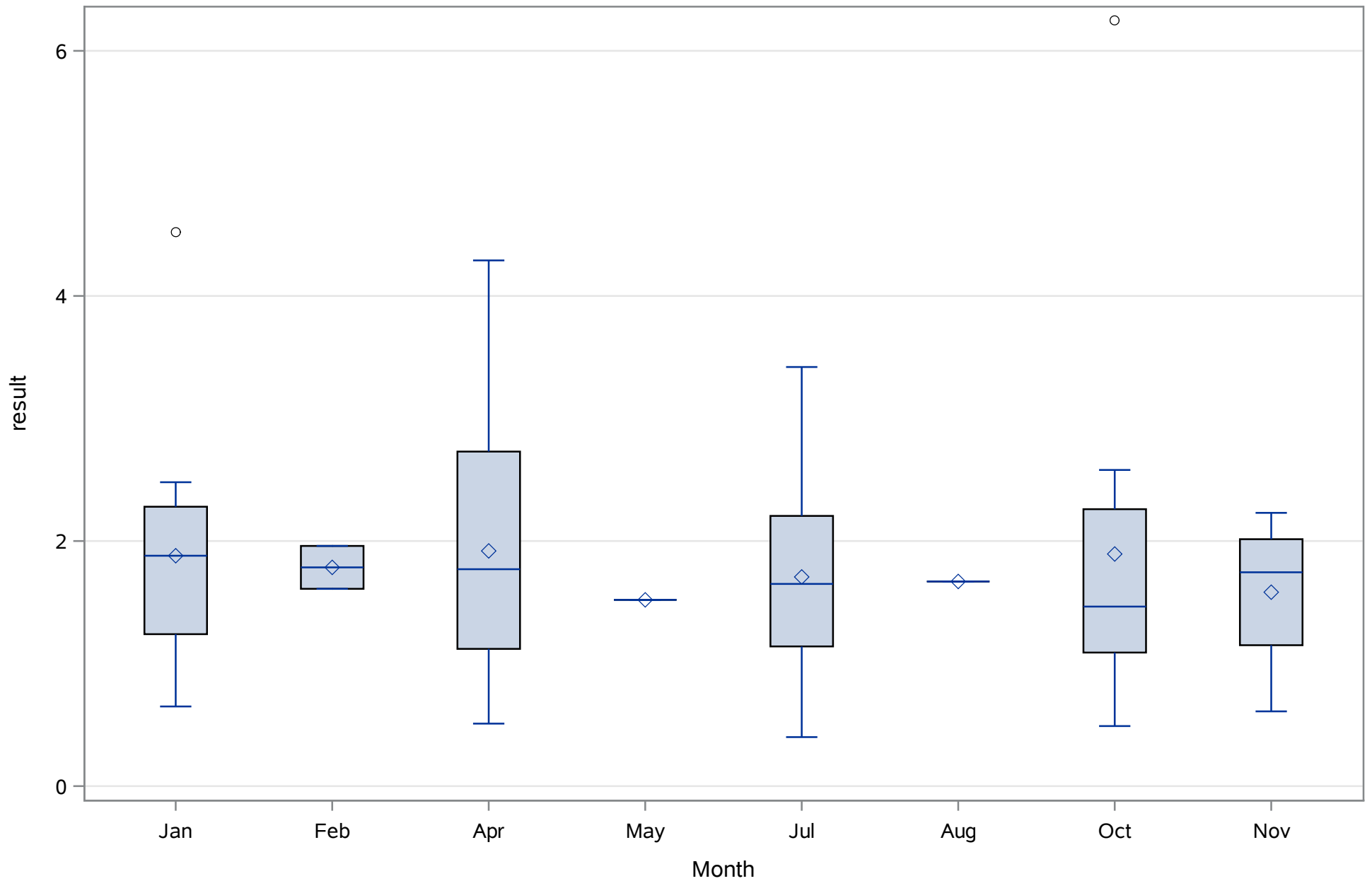
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Chloride (Dissolved) mg/L



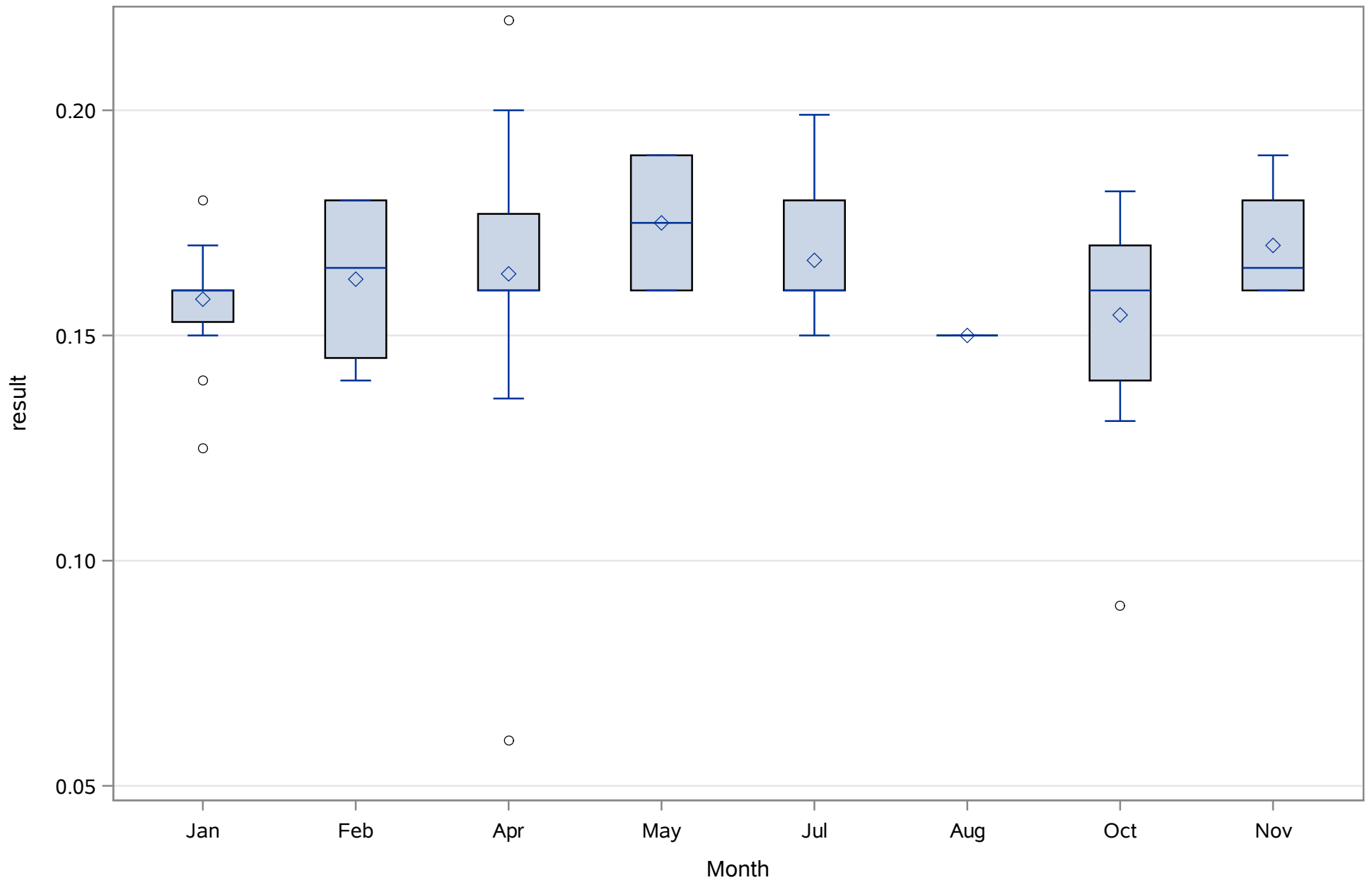
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Color (Dissolved) PCU



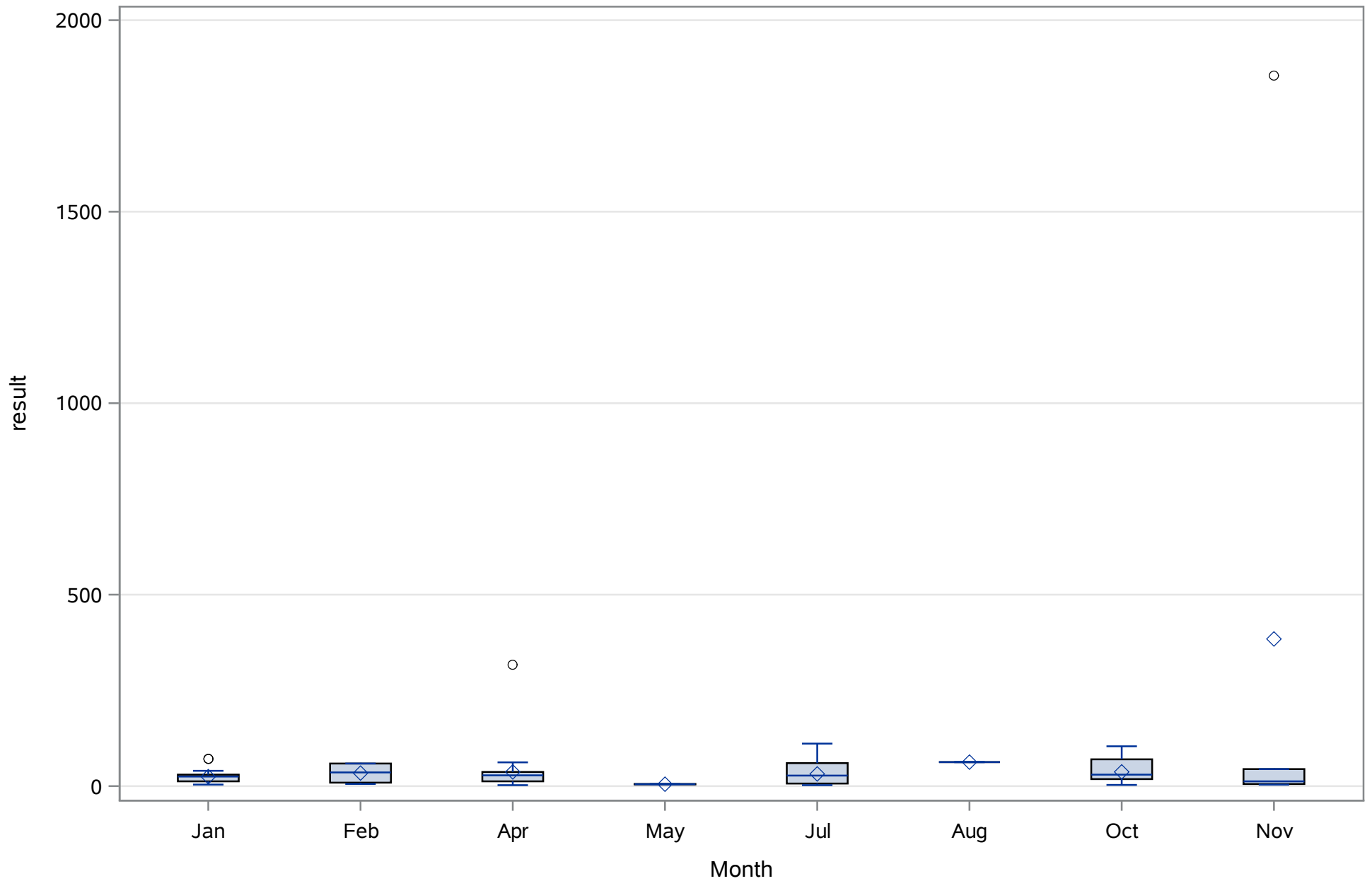
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Dissolved Oxygen (Total) mg/L



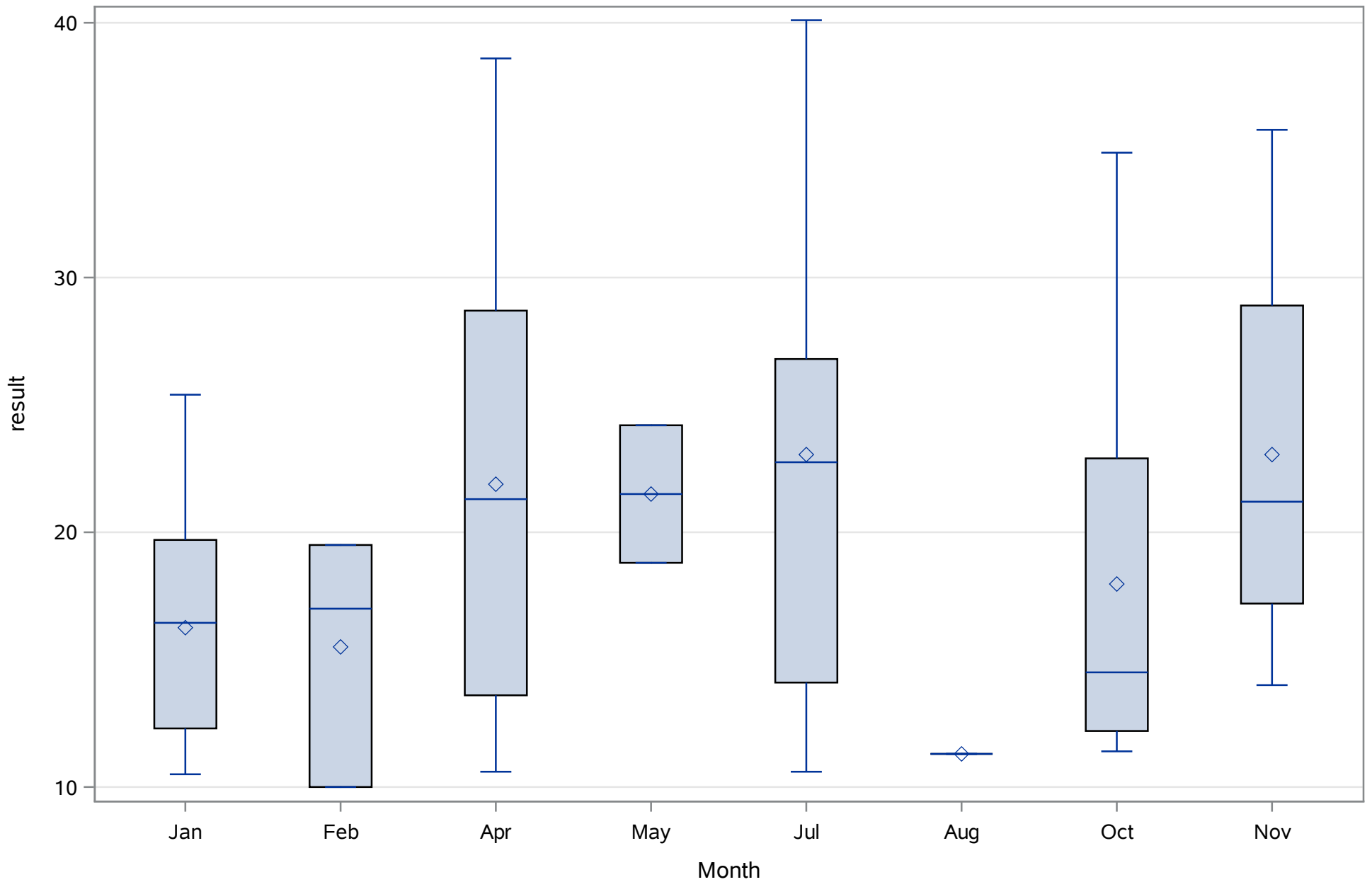
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Fluoride (Dissolved) mg/L



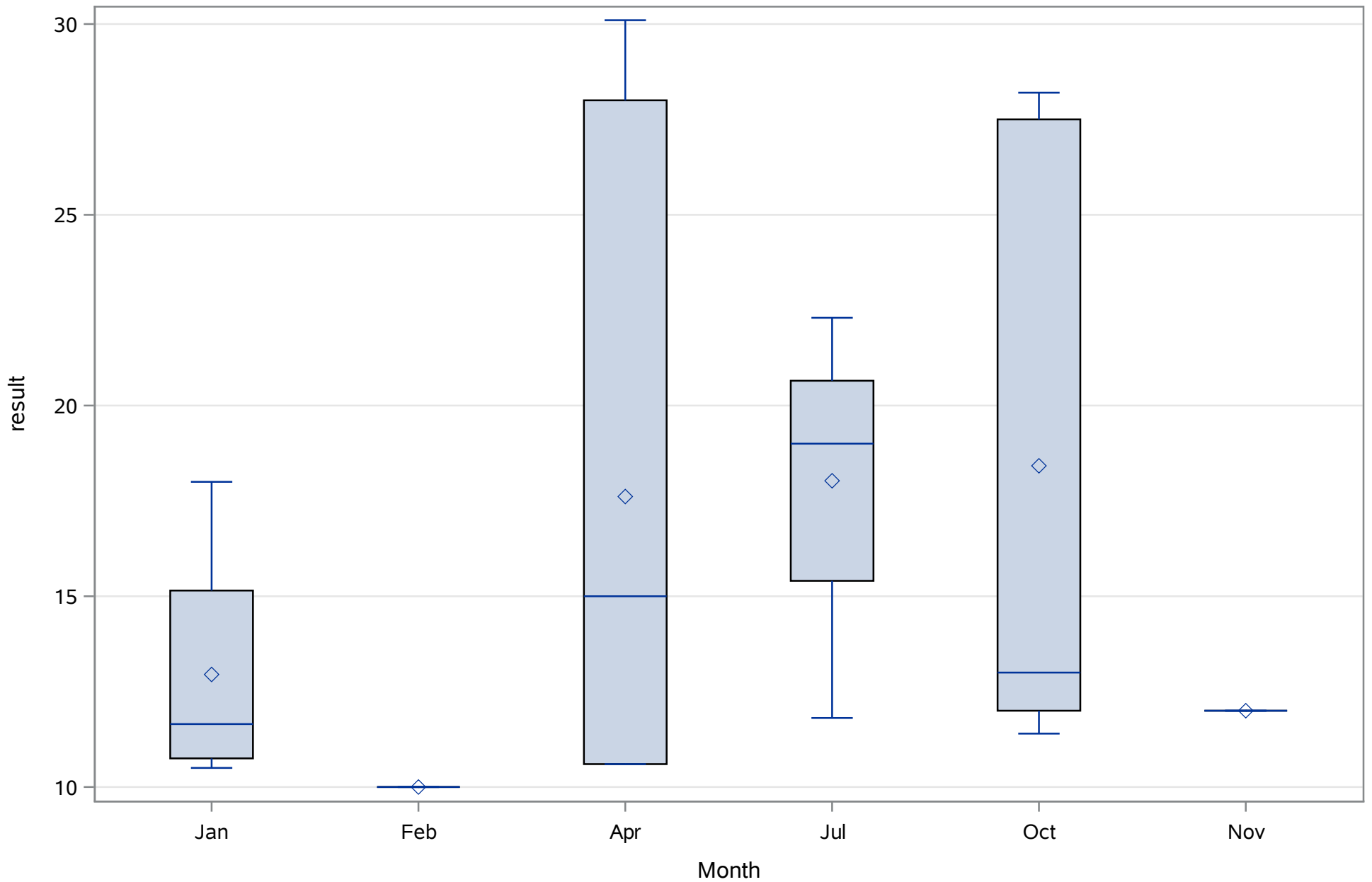
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Iron (Dissolved) ug/L



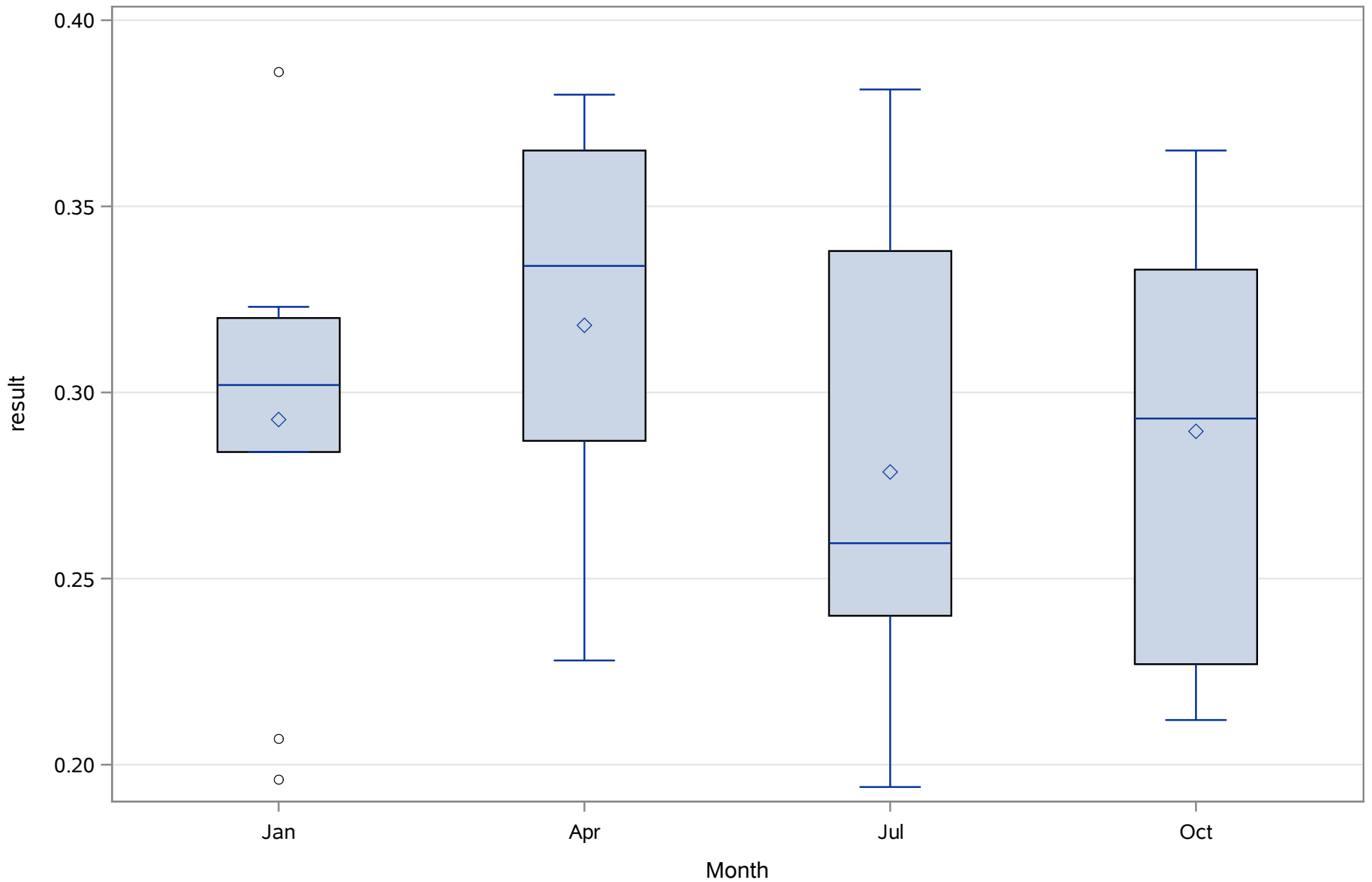
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Dissolved) mg/L



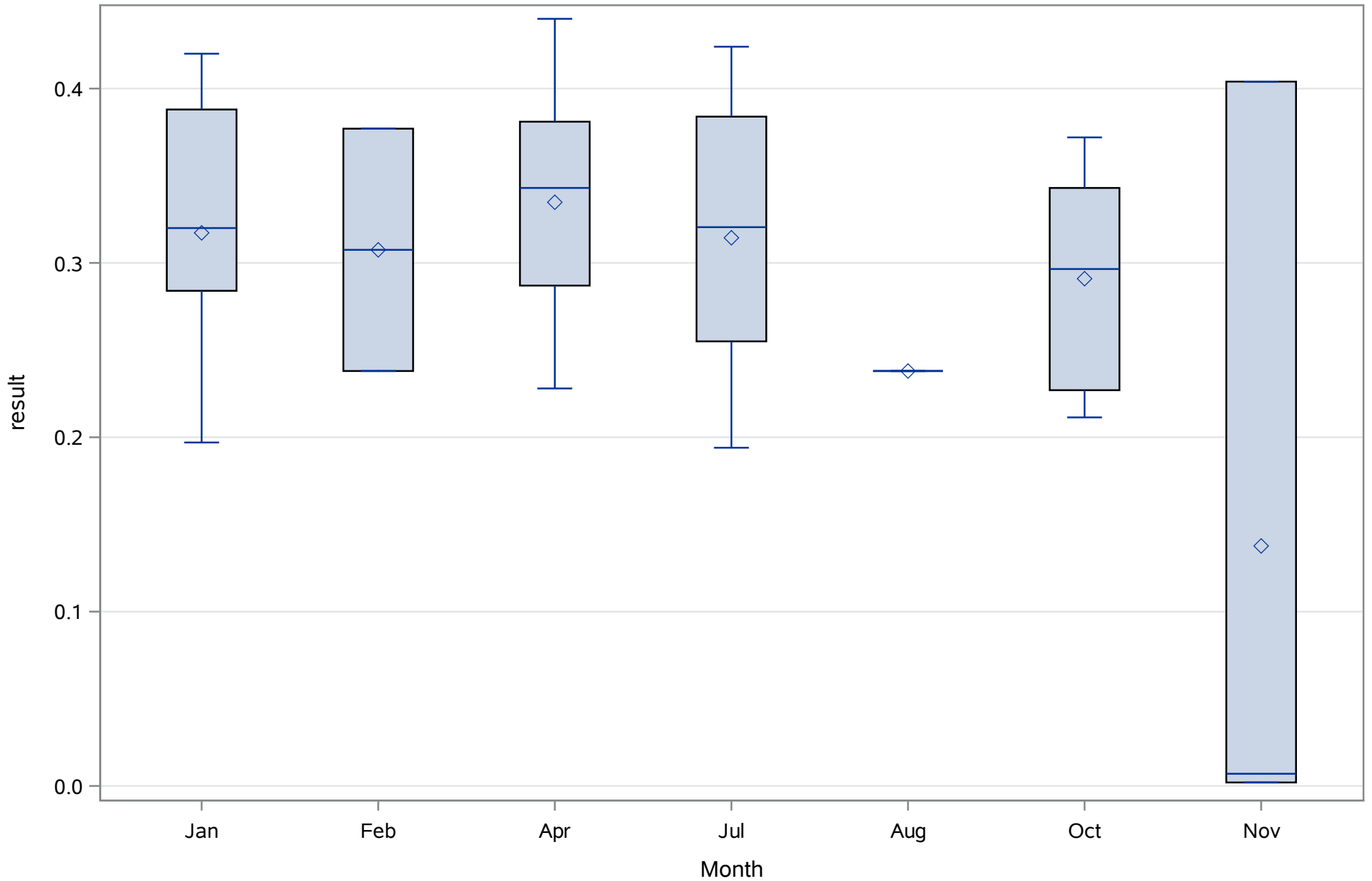
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Magnesium (Total) mg/L



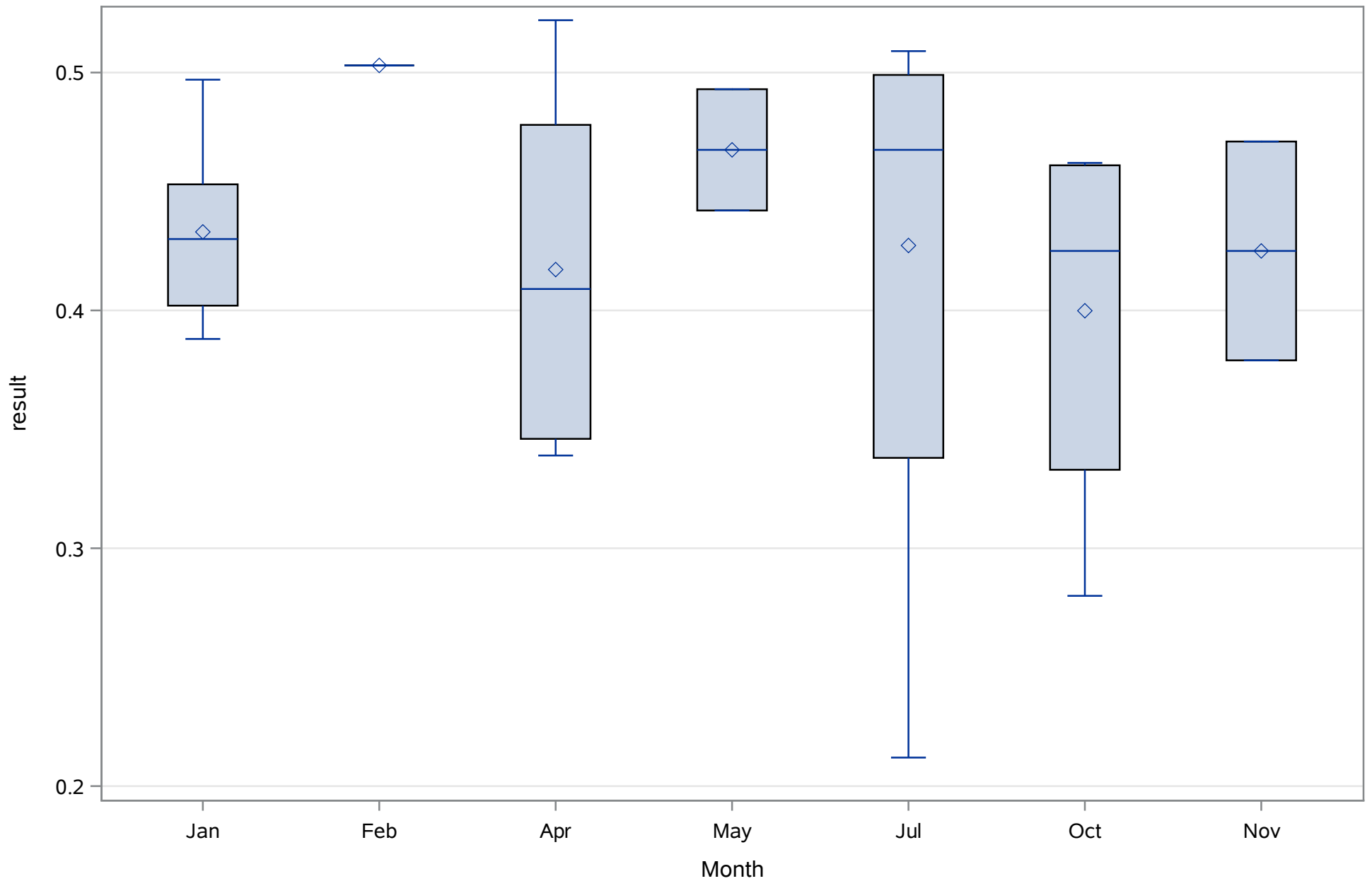
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate (N) (Dissolved) mg/L



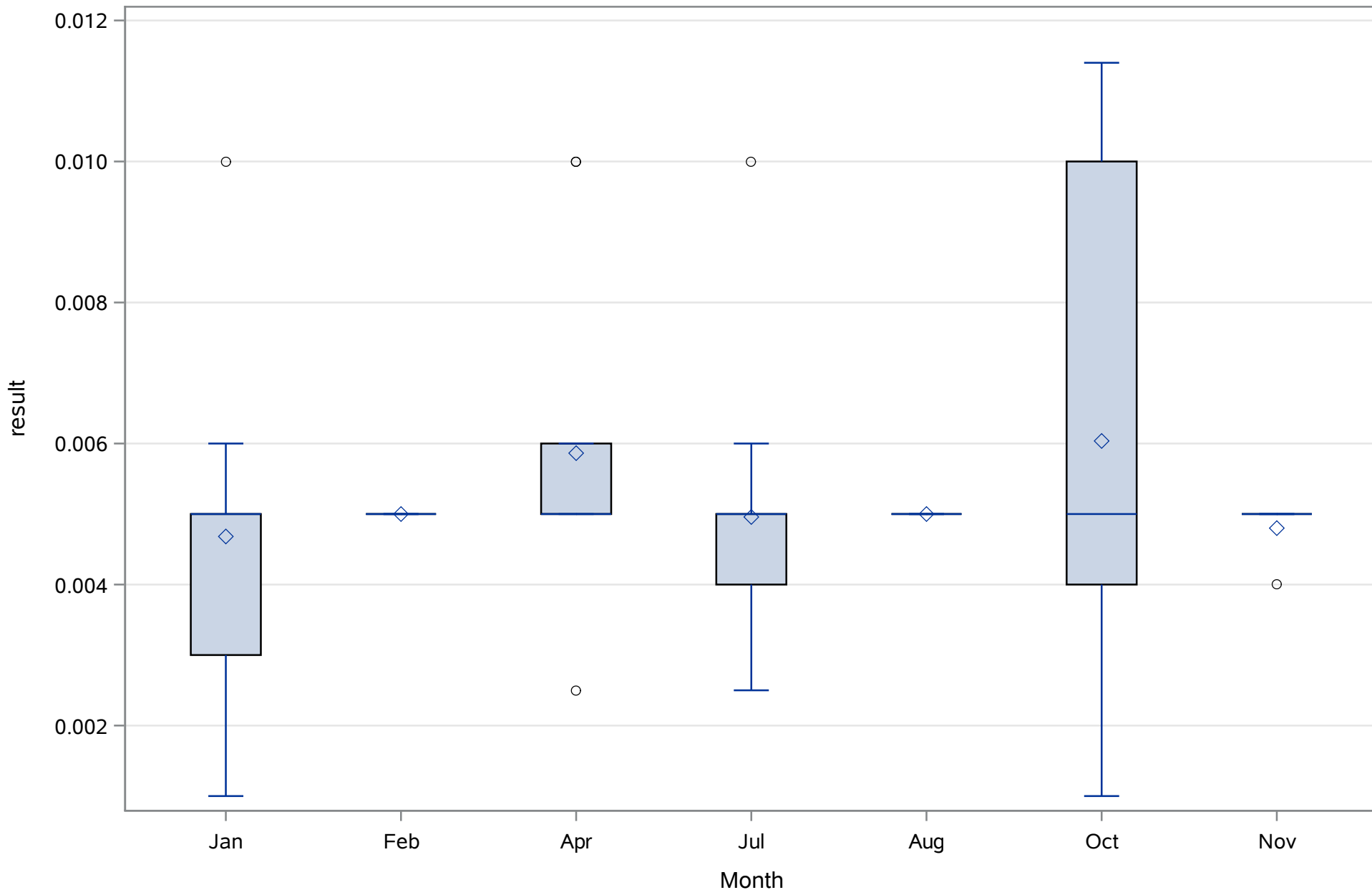
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



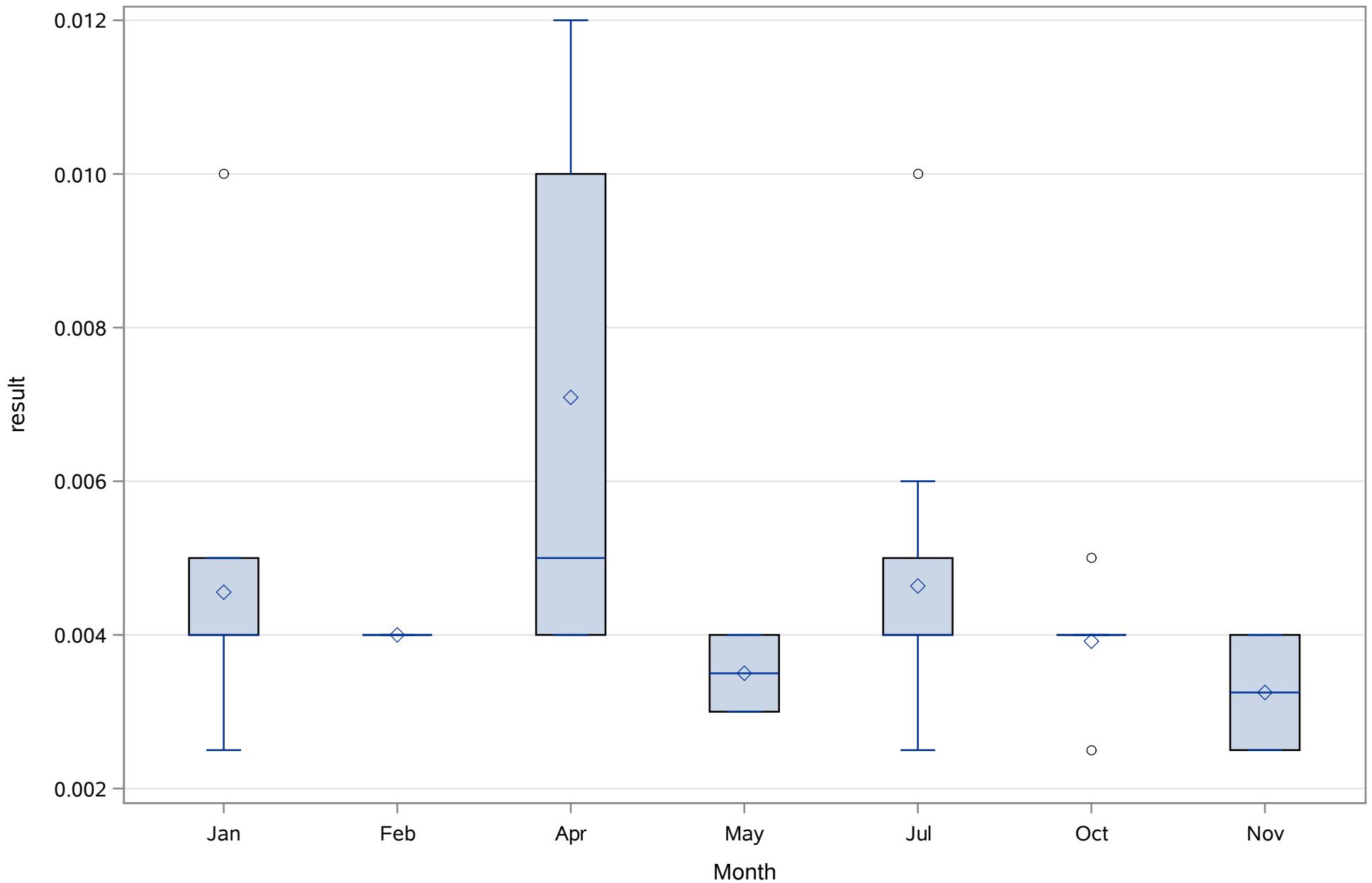
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Nitrate-Nitrite (N) (Total) mg/L



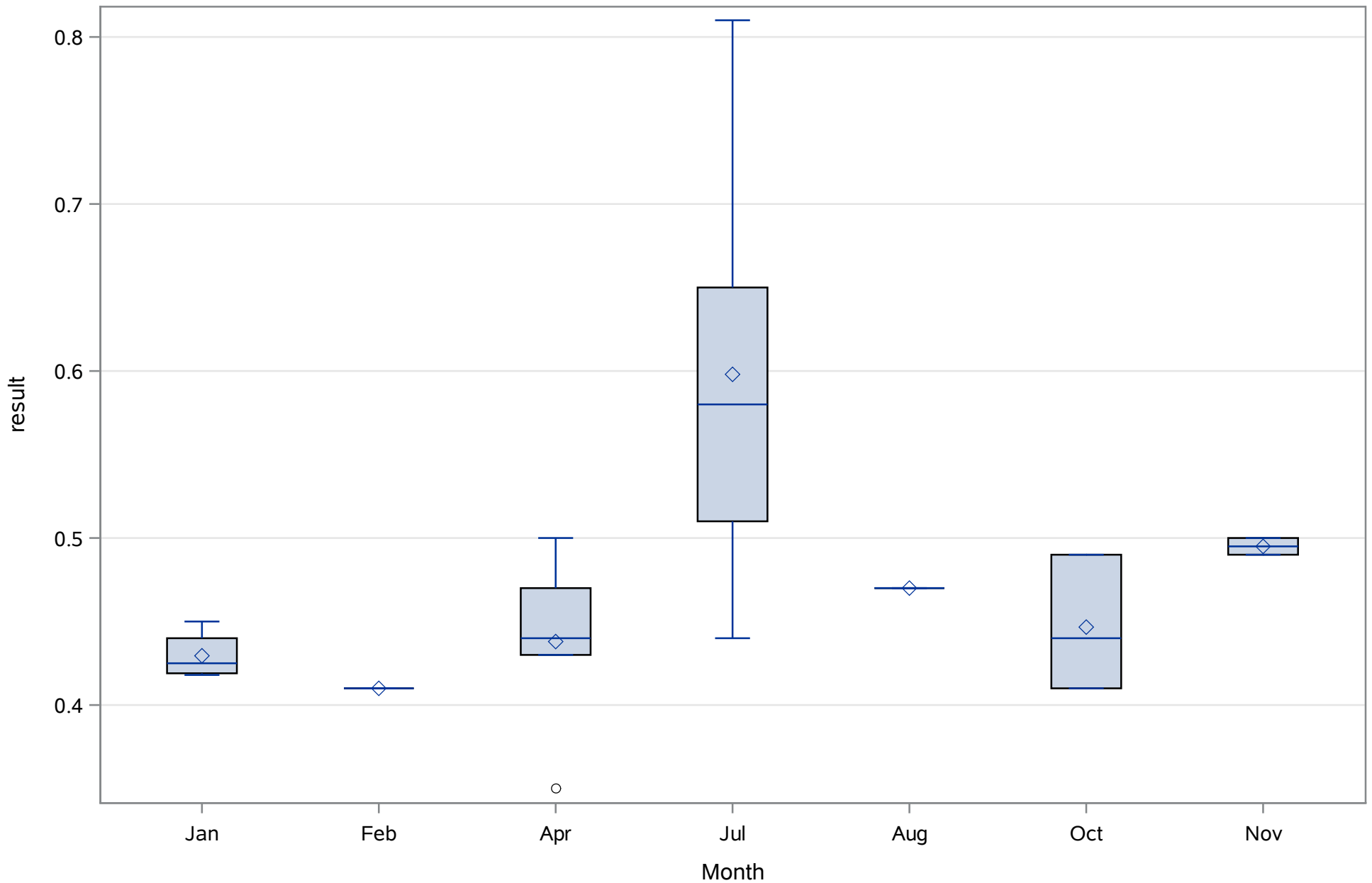
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrite (N) (Dissolved) mg/L



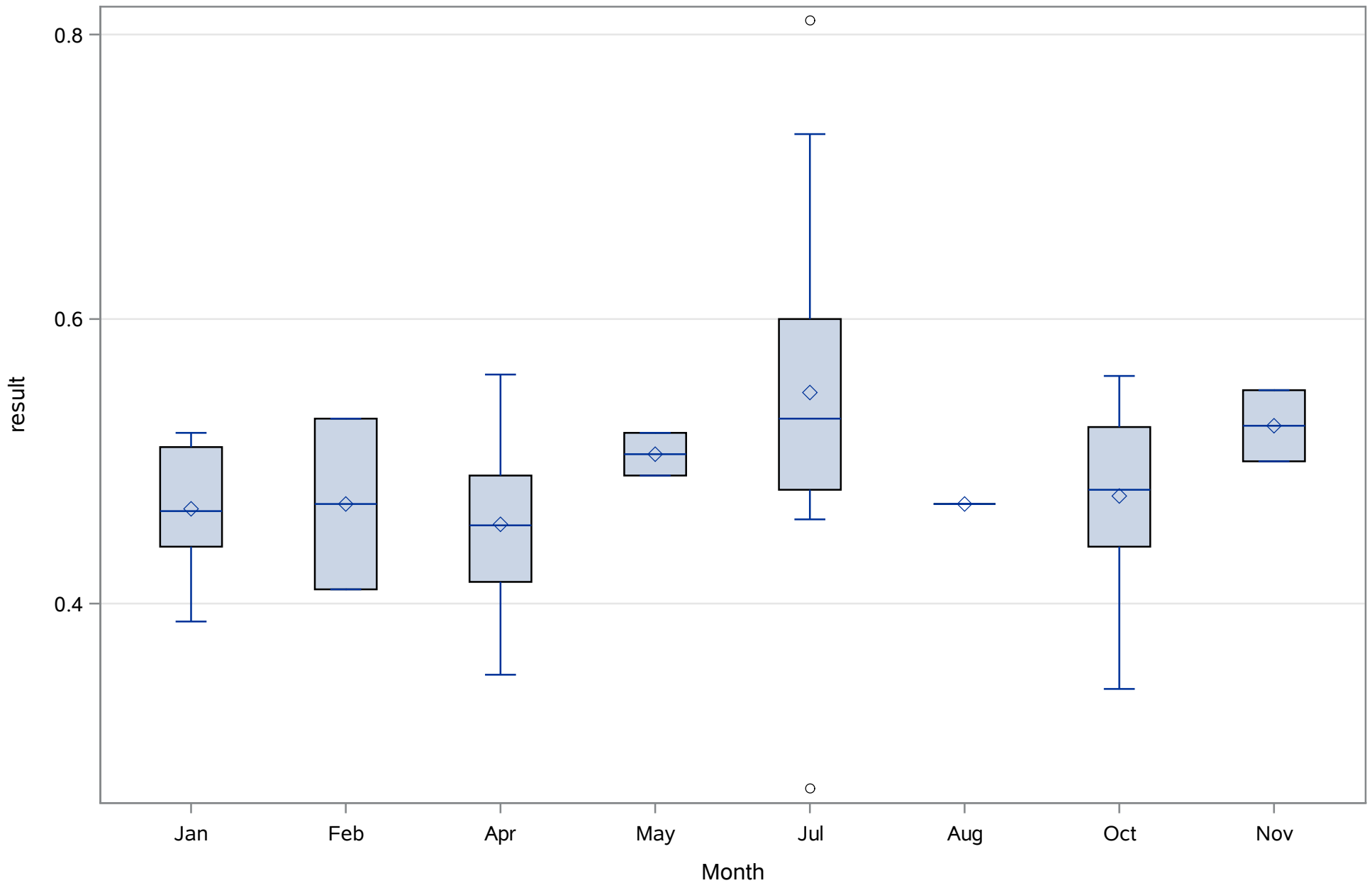
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrite (N) (Total) mg/L



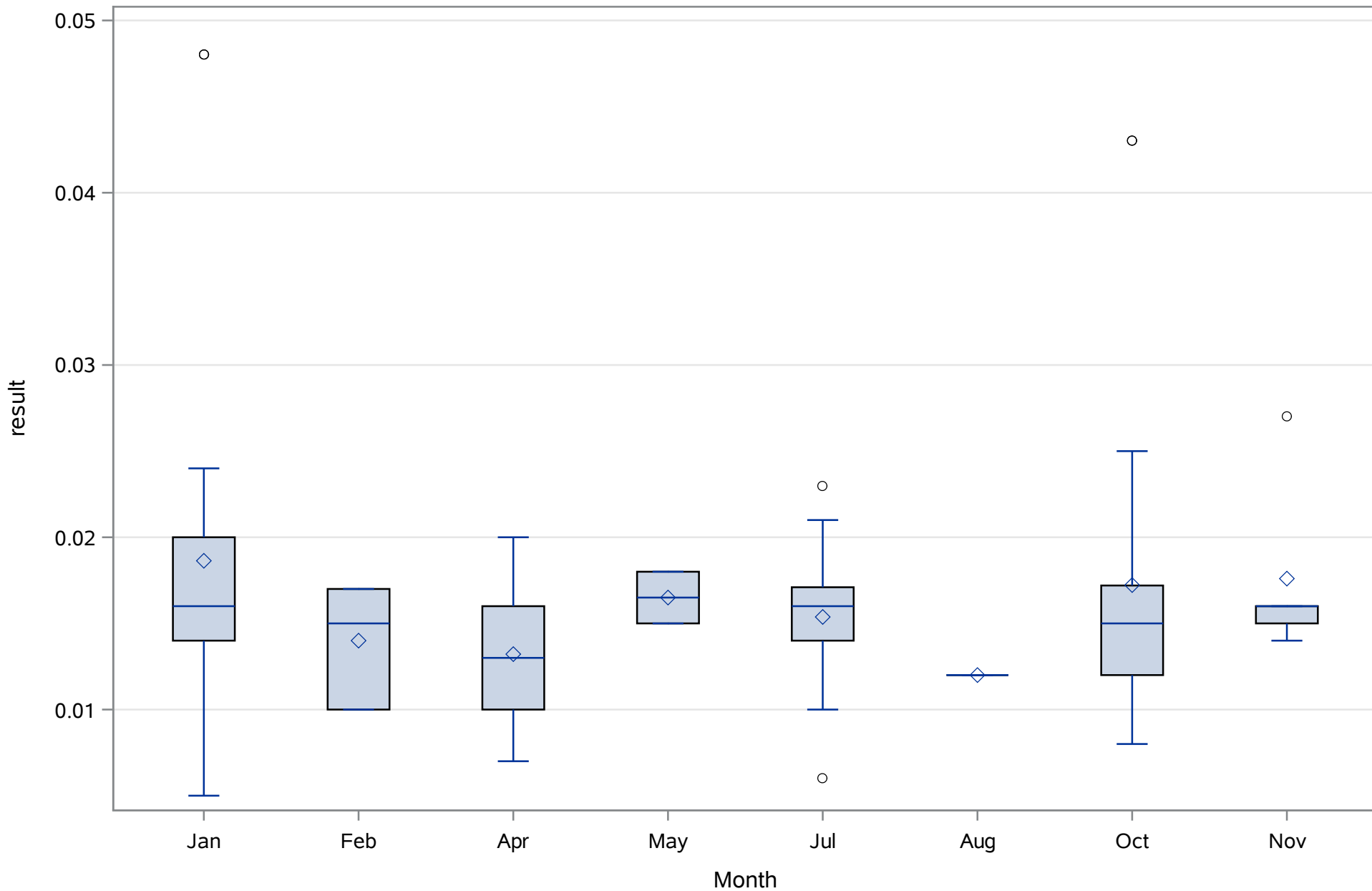
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrogen- Total (Dissolved) mg/L



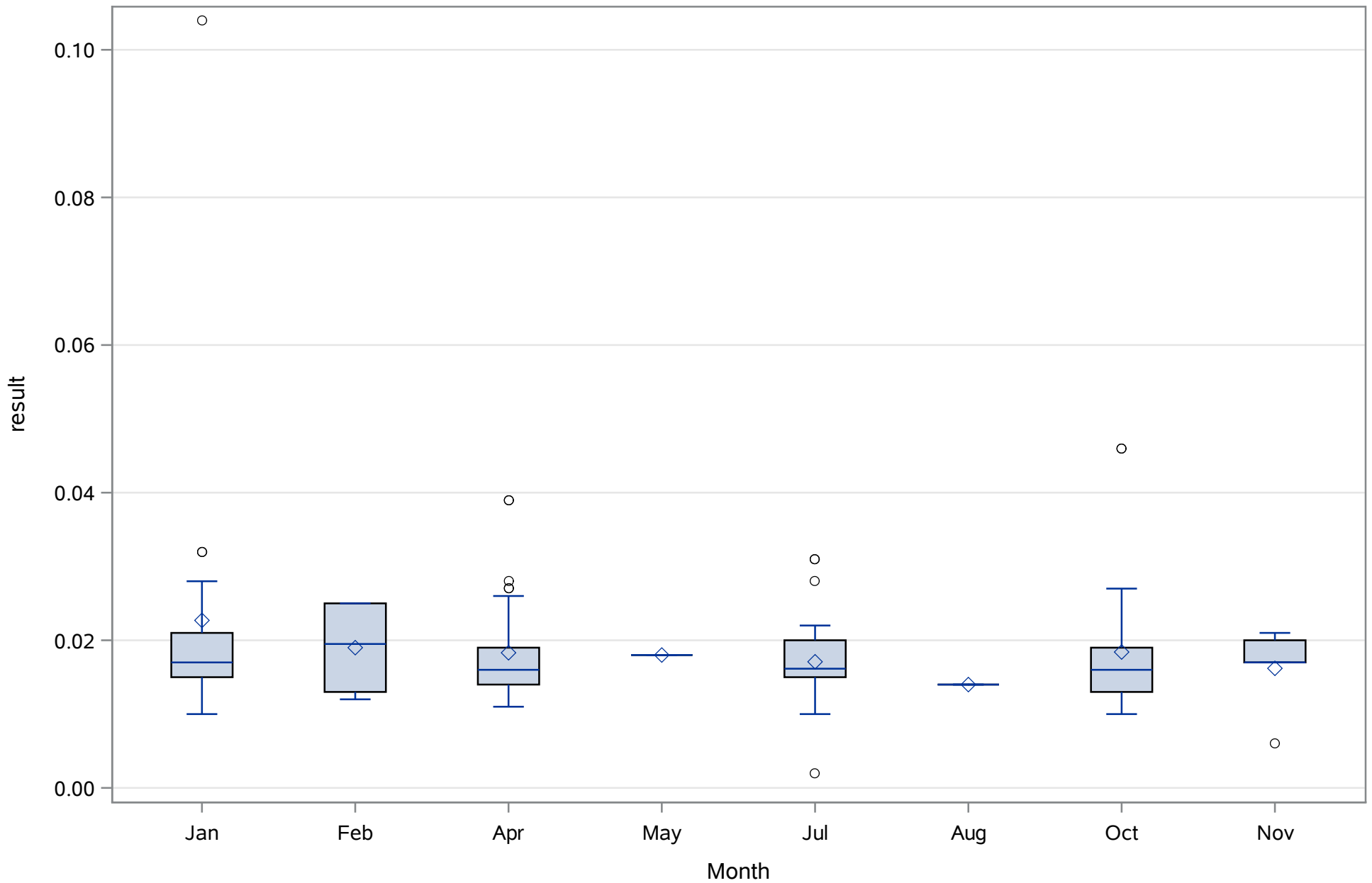
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Nitrogen- Total (Total) mg/L



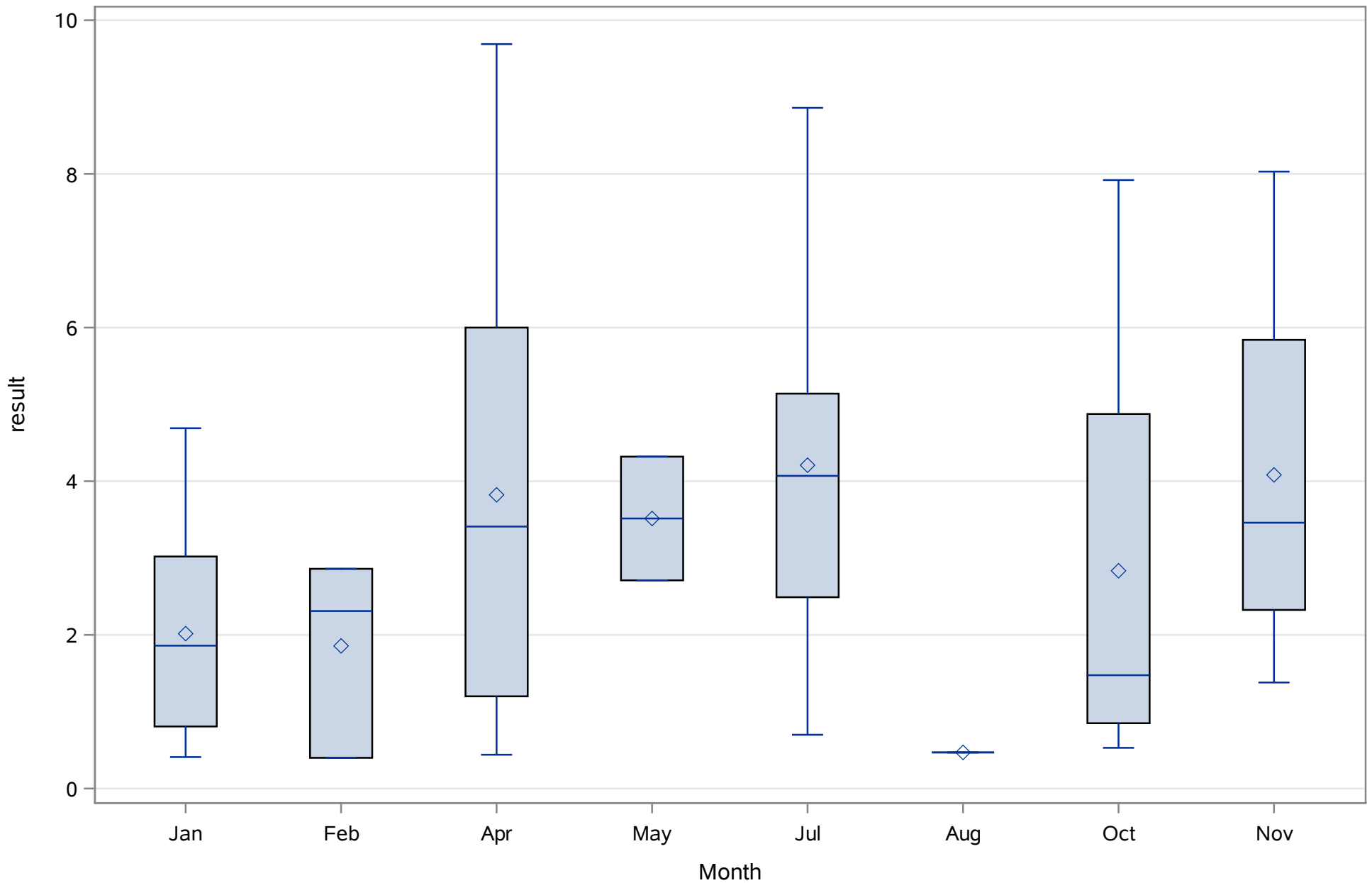
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Orthophosphate (P) (Dissolved) mg/L



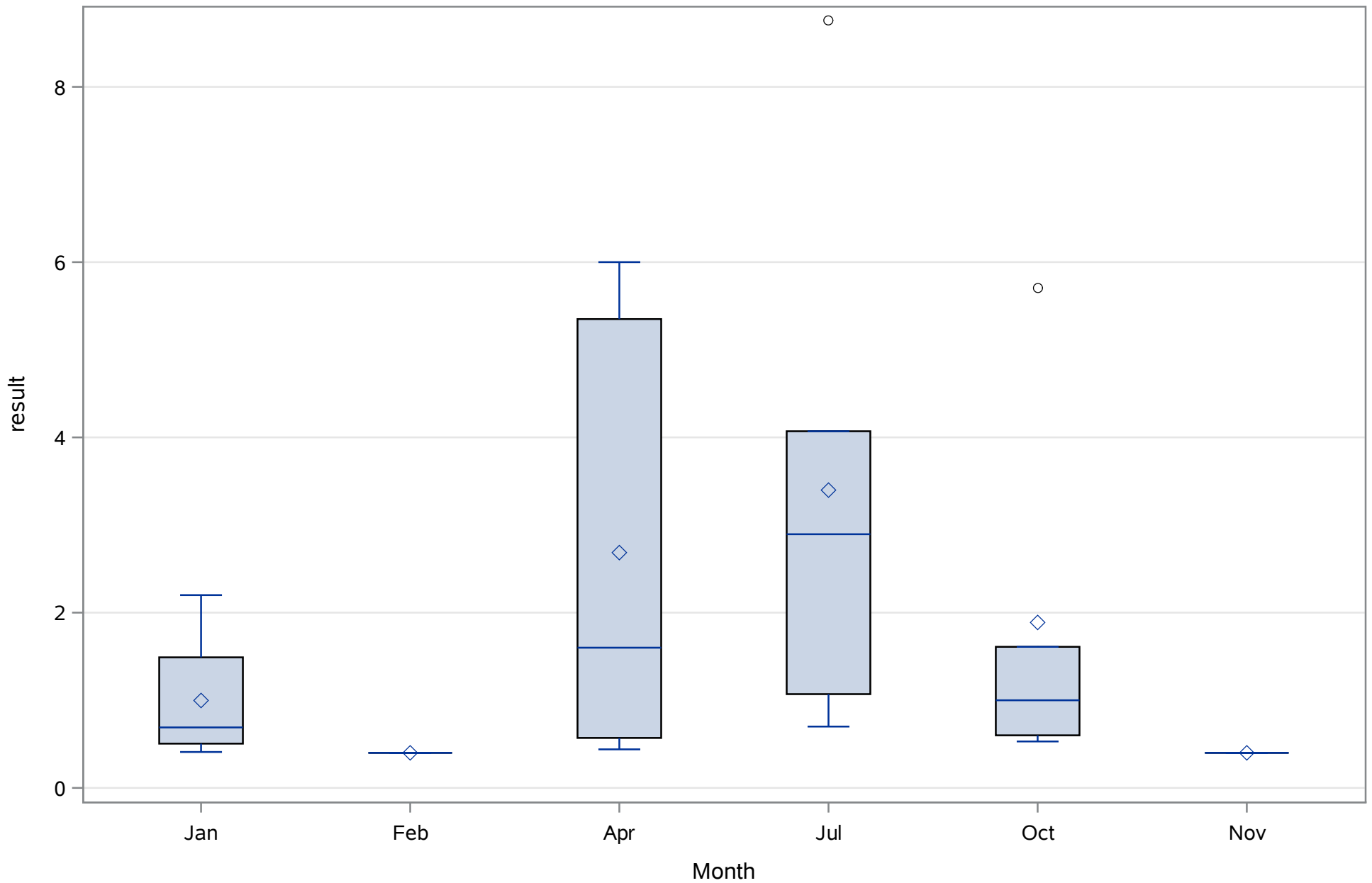
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Phosphorus- Total (Total) mg/L



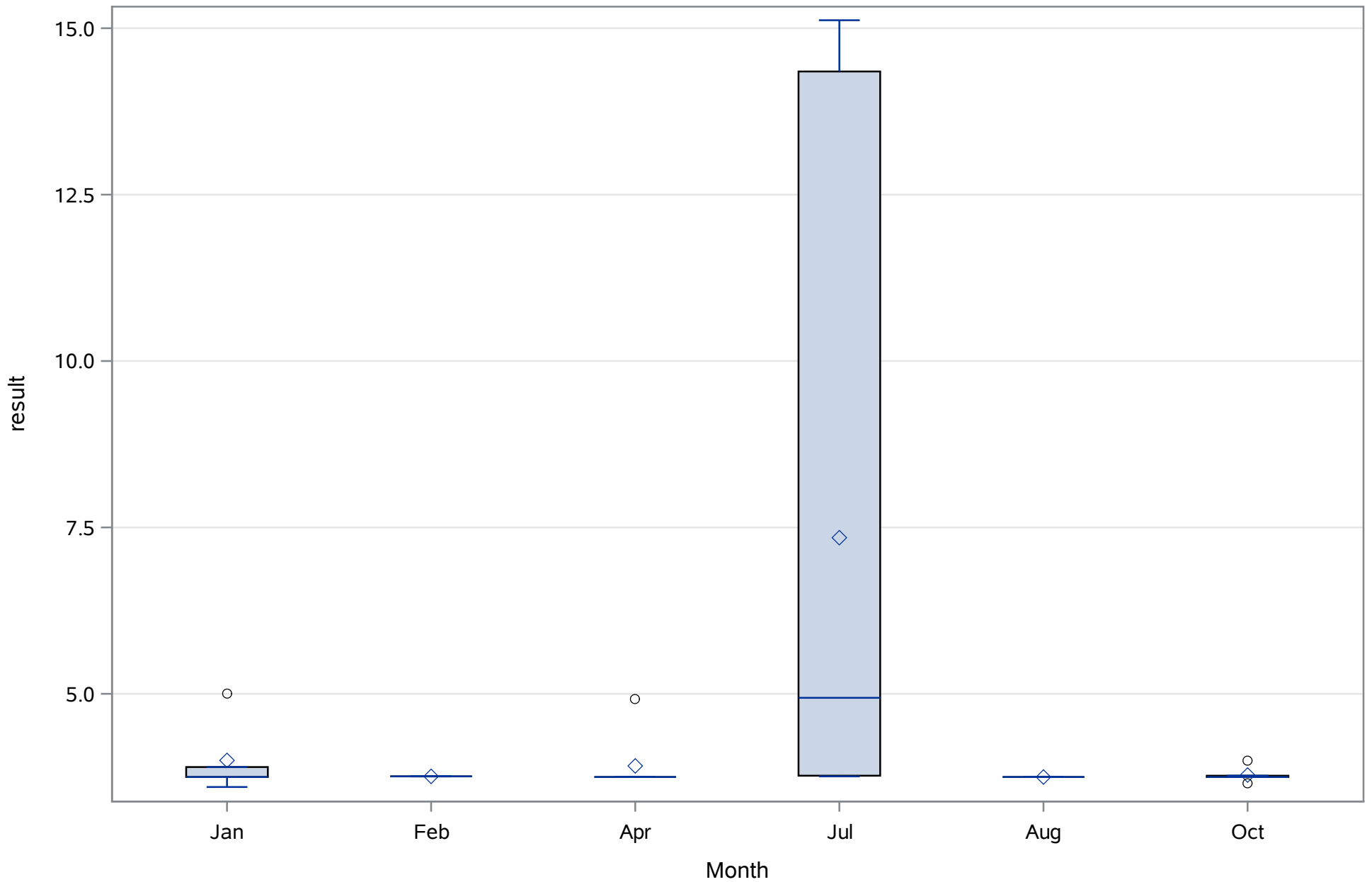
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Dissolved) mg/L



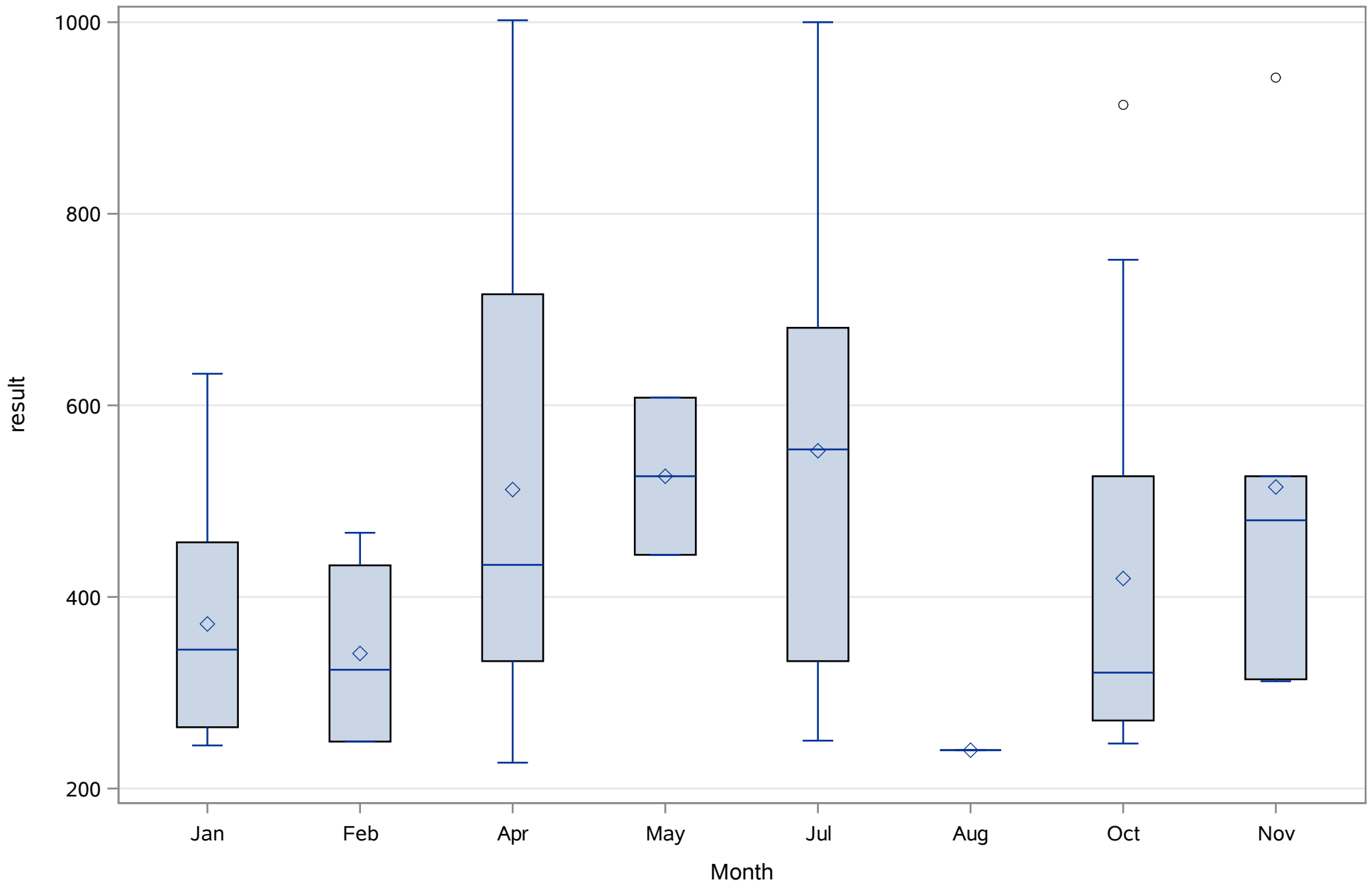
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Potassium (Total) mg/L



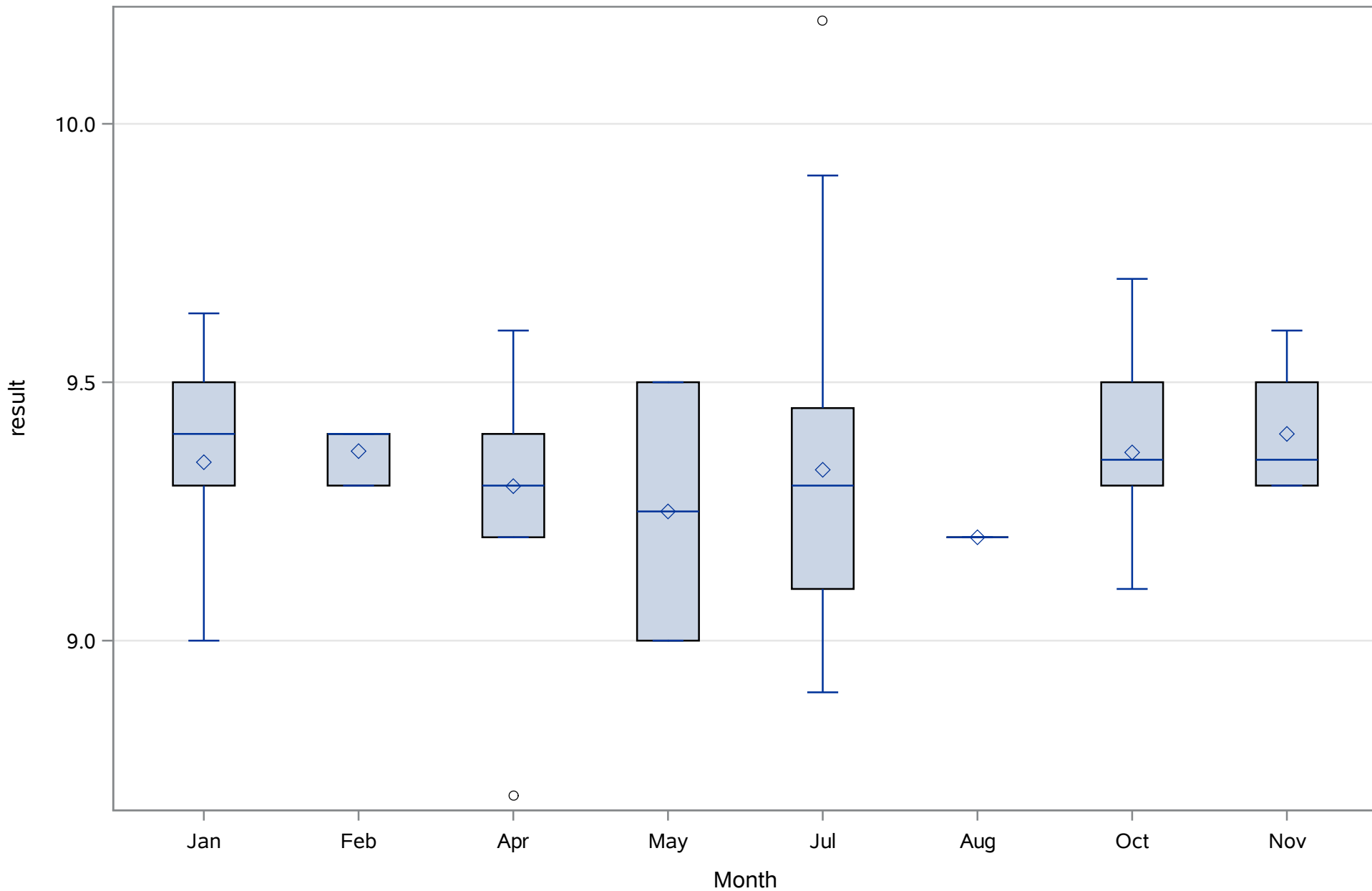
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Purge Volume (Total) Gallons



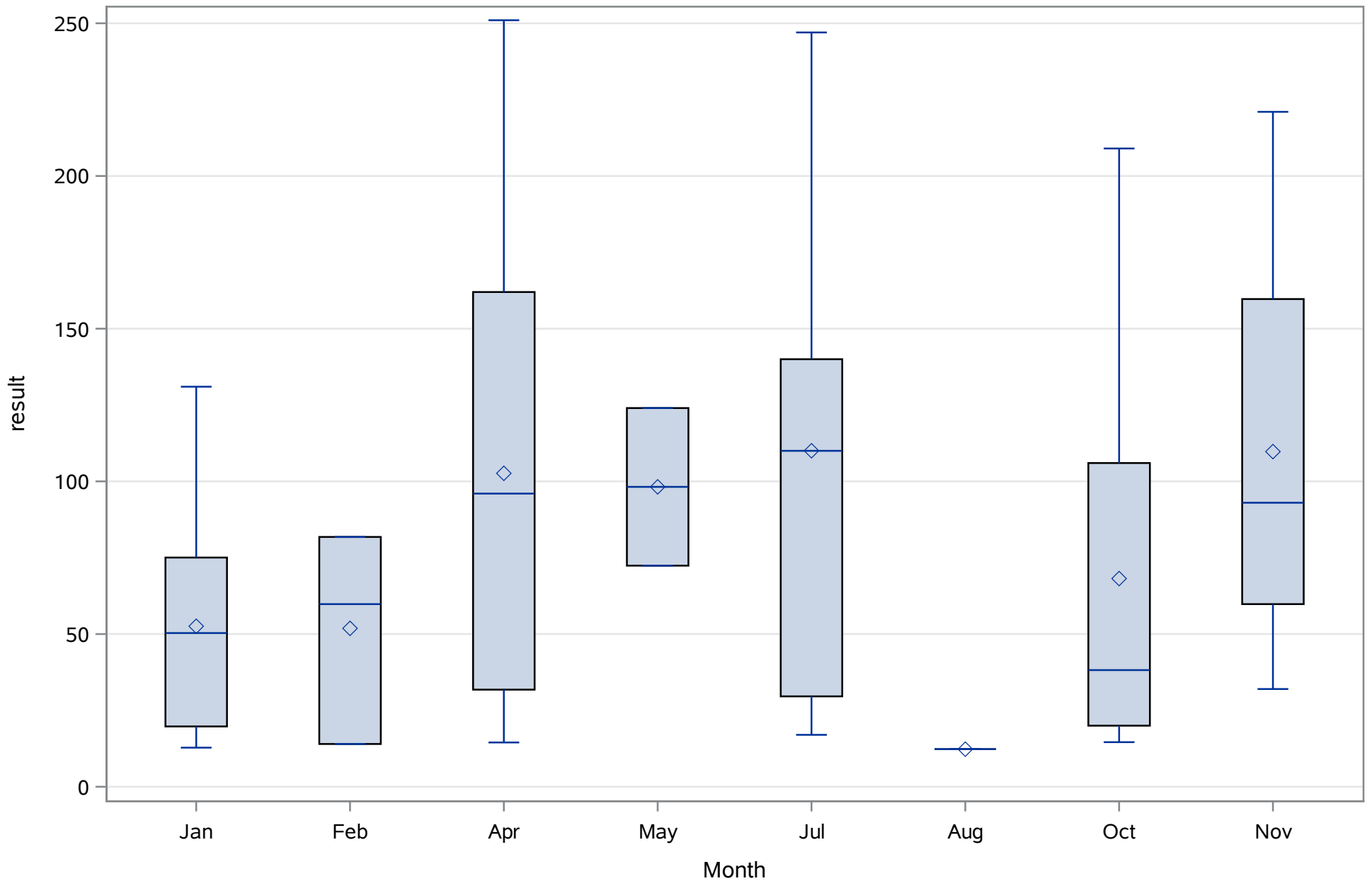
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Residues- Filterable (TDS) (Dissolved) mg/L



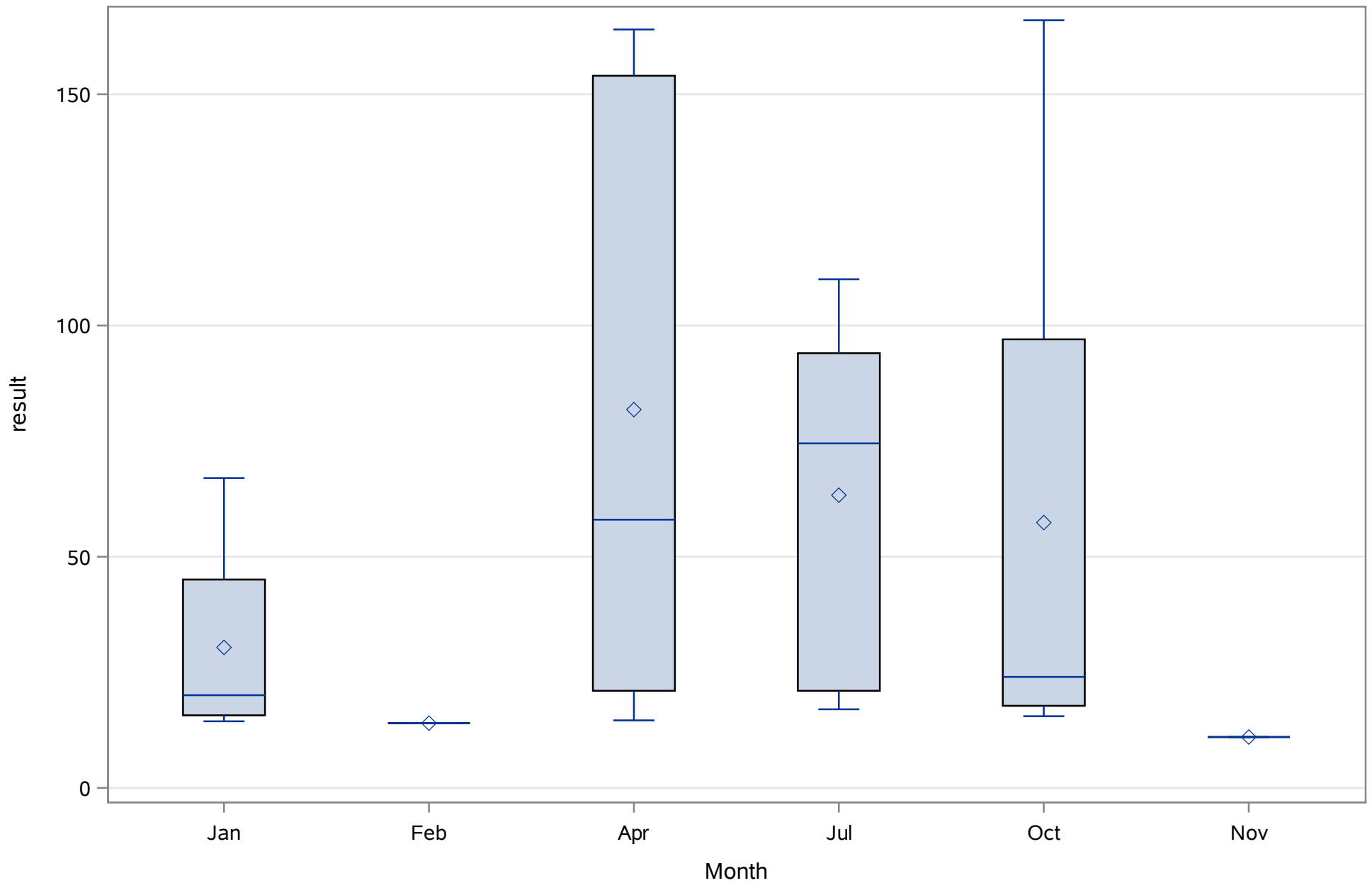
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Silica- Dissolved (Dissolved) mg/L



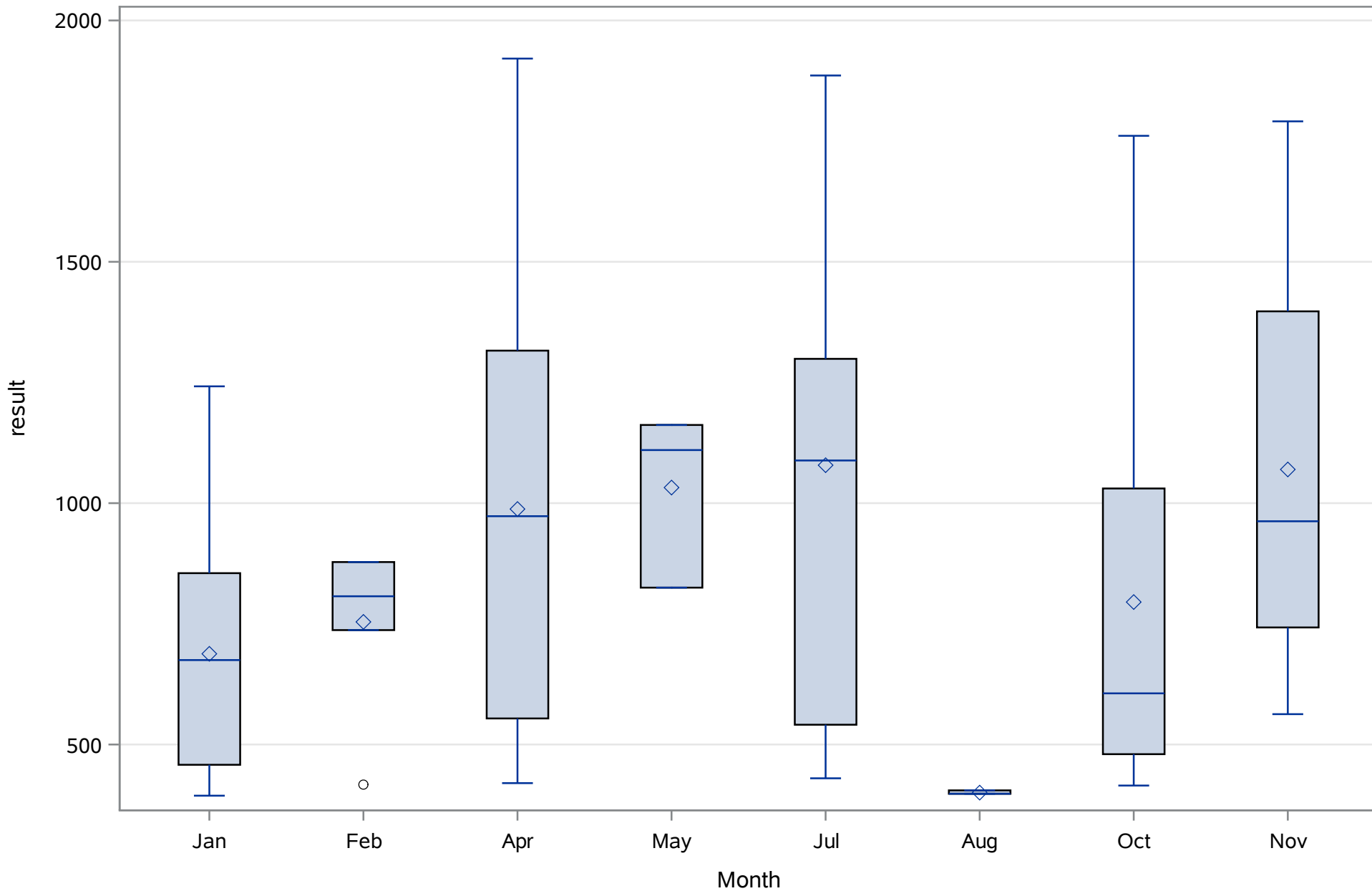
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Dissolved) mg/L



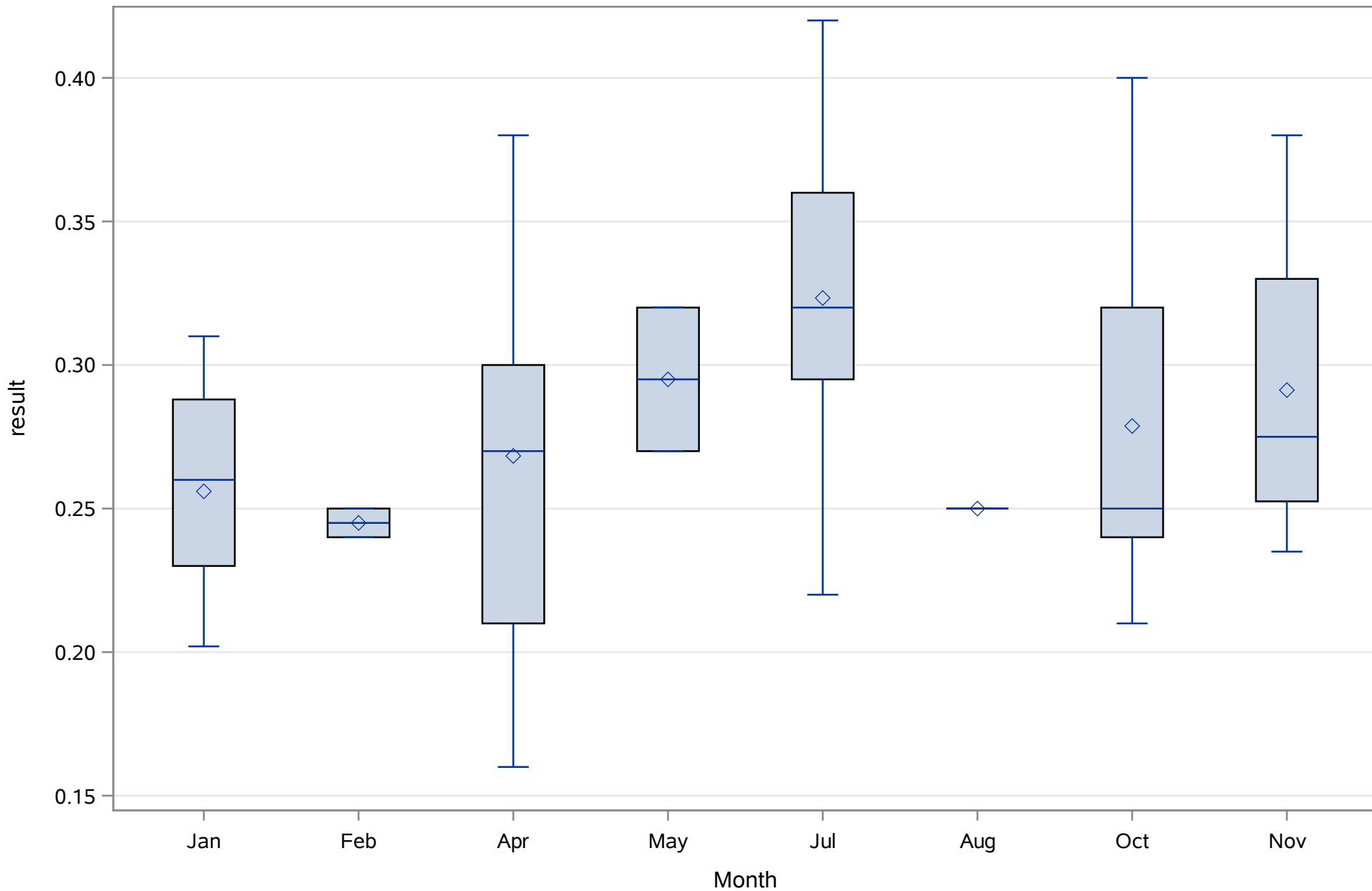
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sodium (Total) mg/L



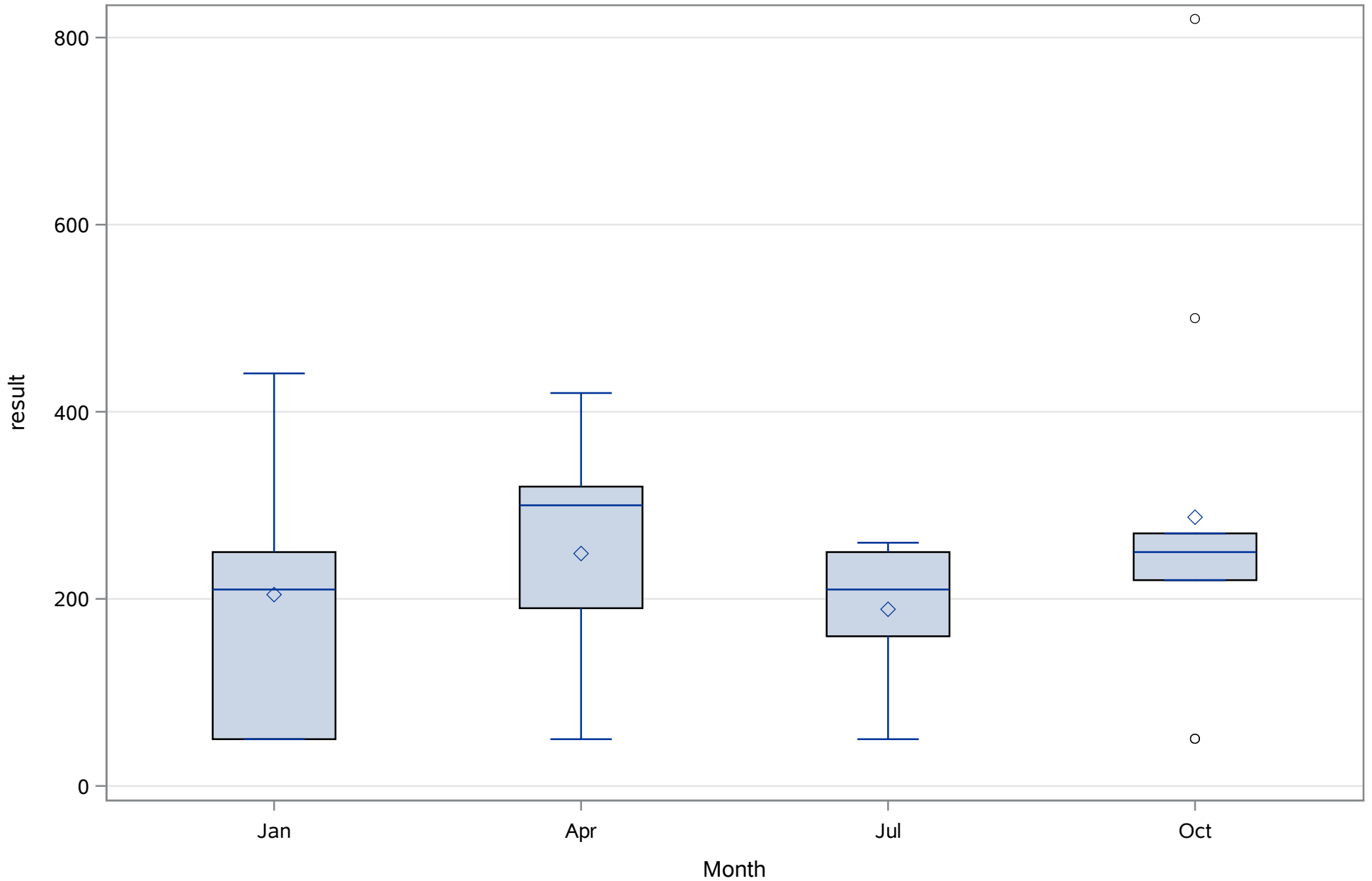
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Specific Conductance (Total) uS/cm



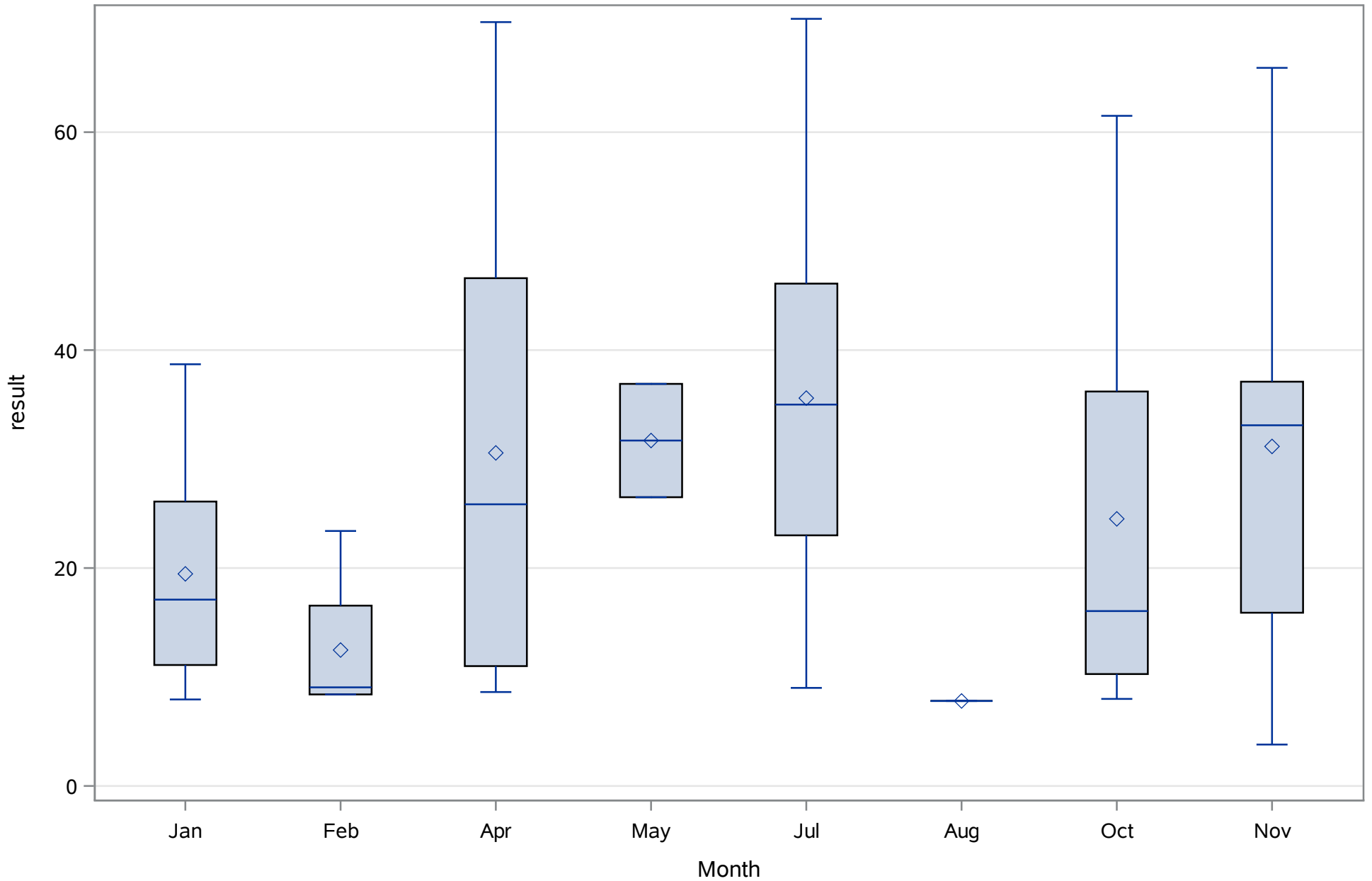
Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
Strontium (Dissolved) mg/L



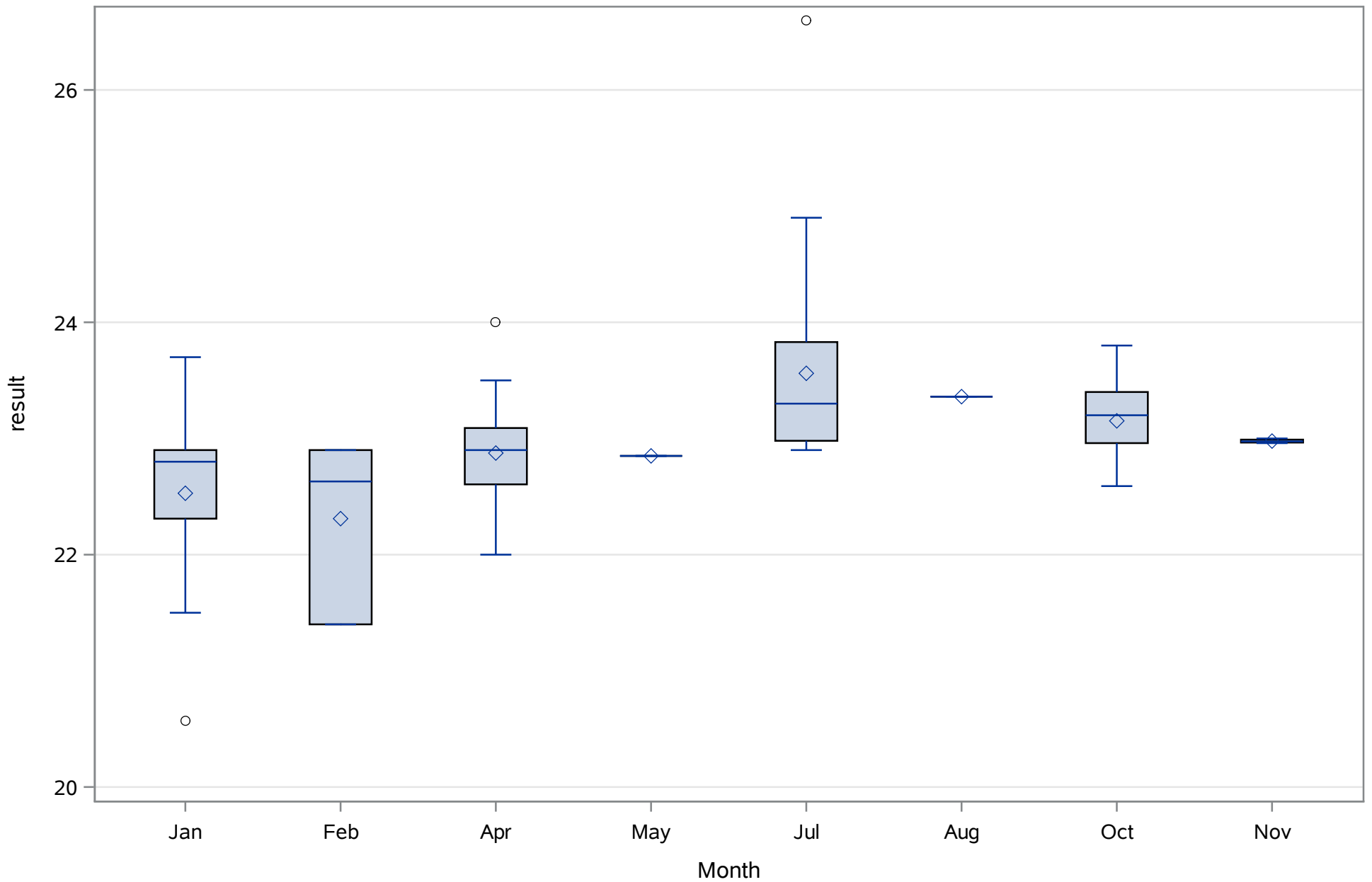
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Strontium (Dissolved) ug/L



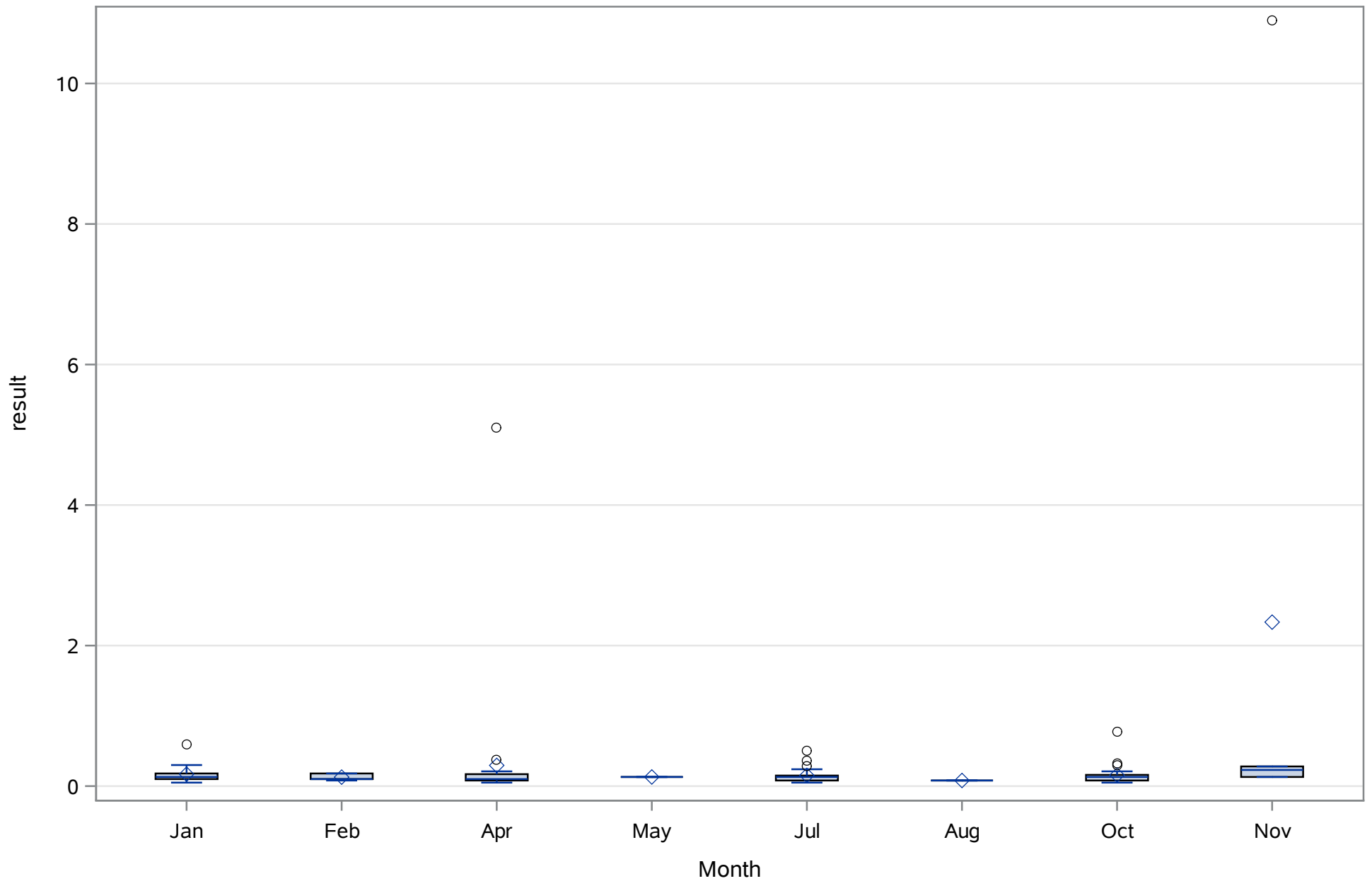
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Sulfate (Dissolved) mg/L



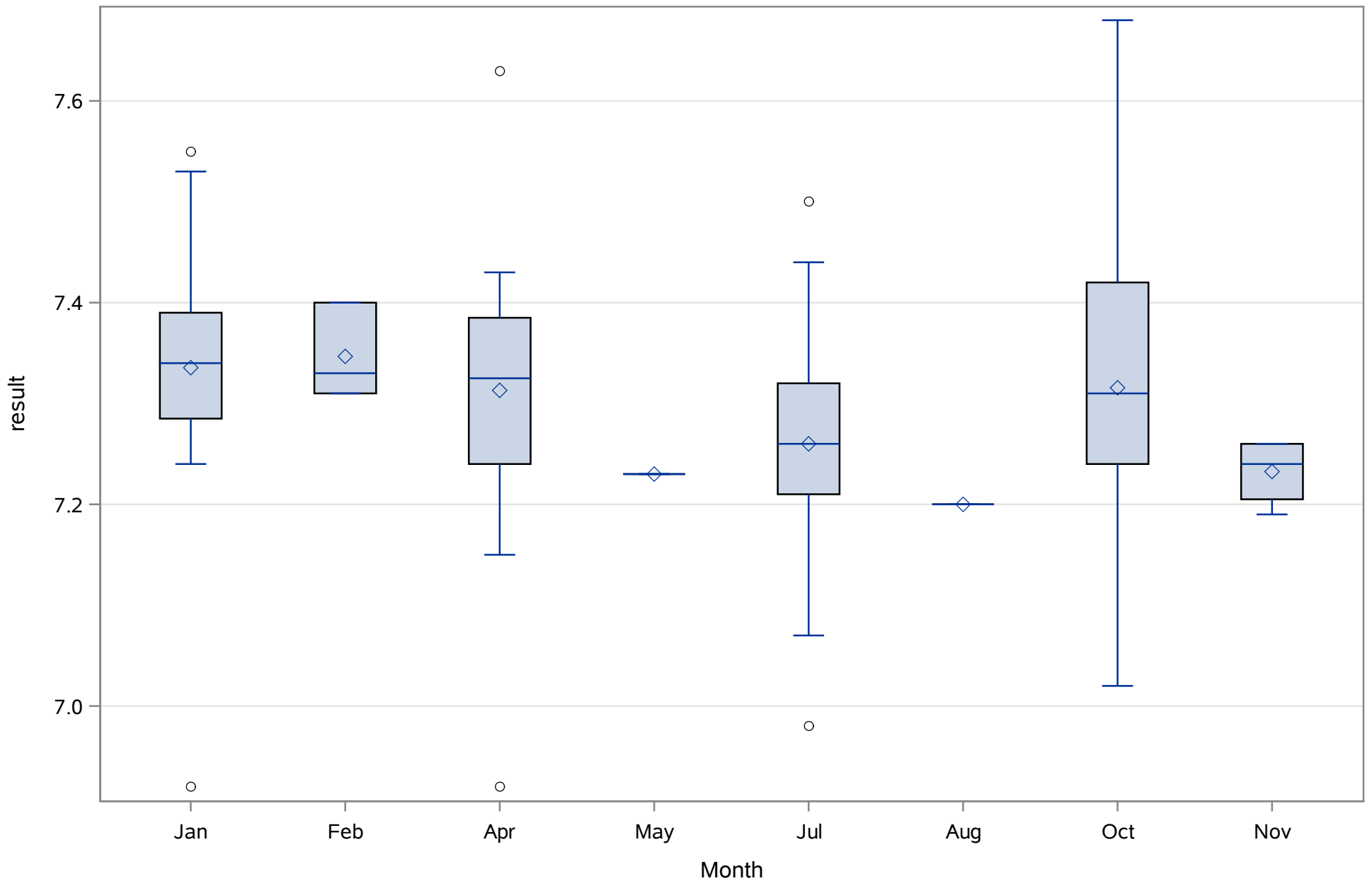
Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Springs Data
Betee Jay Spring
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Bete Jay Spring
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
1-Methylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
1-Methylphenanthrene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,3,5-Trimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,6-Dimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2-Methylnaphthalene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Acenaphthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Acenaphthylene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Alkalinity (Total)	mg/L	JAN1995	JUL2017	37	5.4%	0.0%	2.7%
Aluminum (Dissolved)	ug/L	JUL2013	JUL2017	5	0.0%	0.0%	0.0%
Ammonia (N) (Dissolved)	mg/L	JAN1995	JUL2009	40	7.5%	0.0%	2.5%
Ammonia (N) (Total)	mg/L	JAN1998	JUL2017	14	0.0%	0.0%	0.0%
Anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(a)anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(a)pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(b)fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(g,h,i)perylene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(k)fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Bicarbonate (Total)	mg/L	APR1995	JAN2001	10	0.0%	0.0%	0.0%
Biphenyl	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Boron (Dissolved)	ug/L	JUL2013	JUL2017	5	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN1995	JUL2017	48	6.3%	0.0%	2.1%
Calcium (Total)	mg/L	JUL1998	JAN2000	4	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JAN1995	JUL2017	52	5.8%	0.0%	5.8%
Chloride (Dissolved)	mg/L	JAN1995	JUL2017	52	0.0%	0.0%	1.9%
Chrysene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Color (Dissolved)	PCU	JUL2010	JUL2017	8	0.0%	0.0%	0.0%
Depth (Total)	Meters	JUL2007	JUL2009	2	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	JUL2008	JUL2008	1	0.0%	0.0%	100.0%
Dibenzo(a,h)anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dibenzothiophene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dissolved Oxygen (Total)	mg/L	JAN2002	JUL2017	17	0.0%	0.0%	0.0%
Eh, Field (hydrogen electrode)	mV	JAN2002	JAN2002	1	0.0%	0.0%	100.0%
Fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Fluorene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Fluoride (Dissolved)	mg/L	JAN1995	JUL2017	36	11.1%	0.0%	2.8%
Fluoride (Total)	mg/L	JAN1995	JAN2003	20	15.0%	0.0%	5.0%
Hardness (Total)	mg/L	JAN1998	JAN2000	6	0.0%	0.0%	0.0%
Indeno(1,2,3-cd)pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Iron (Dissolved)	ug/L	JAN1995	JUL2017	52	7.7%	0.0%	3.8%
Magnesium (Dissolved)	mg/L	JAN1995	JUL2017	36	2.8%	0.0%	2.8%
Magnesium (Total)	mg/L	JAN1995	JAN1999	16	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	JUL2013	JUL2017	5	0.0%	0.0%	0.0%
Naphthalene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Nitrate (N) (Dissolved)	mg/L	JAN1995	JAN2005	22	4.5%	0.0%	4.5%
Nitrate (N) (Total)	mg/L	JUL1995	JAN1999	14	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	JAN1995	JUL2009	30	6.7%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2002	JUL2017	9	0.0%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	JAN1995	JUL2009	21	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	APR1998	JUL2017	15	0.0%	0.0%	0.0%
Nitrogen- Organic (Dissolved)	mg/L	JAN1995	JUL1998	15	0.0%	0.0%	0.0%
Nitrogen- Total (Dissolved)	mg/L	JAN2003	JUL2009	6	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	OCT1997	JUL2017	22	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	JAN1995	JAN2000	12	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	JAN1995	JUL2017	52	9.6%	0.0%	5.8%
Phenanthrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Phosphorus- Total (Total)	mg/L	JAN1995	JUL2017	53	9.4%	0.0%	1.9%
Potassium (Dissolved)	mg/L	JAN1995	JUL2017	36	0.0%	0.0%	2.8%
Potassium (Total)	mg/L	JAN1995	JAN2000	19	0.0%	0.0%	0.0%
Purge Volume (Total)	Gallons	JAN2002	JUL2007	7	0.0%	0.0%	0.0%
Pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	JAN1995	JUL2017	51	2.0%	0.0%	2.0%
Silica- Dissolved (Dissolved)	mg/L	JAN2002	JUL2017	18	0.0%	0.0%	5.6%
Sodium (Dissolved)	mg/L	JAN1995	JUL2017	36	2.8%	0.0%	2.8%
Sodium (Total)	mg/L	JAN1995	JAN2000	19	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JAN1995	JUL2017	65	0.0%	0.0%	1.5%
Strontium (Dissolved)	mg/L	AUG2005	JUL2017	13	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Strontium (Dissolved)	ug/L	APR1996	JAN2005	18	0.0%	0.0%	0.0%
Strontium (Total)	ug/L	OCT1995	JAN2000	16	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	JAN1995	JUL2017	52	0.0%	0.0%	1.9%
Temperature (Total)	Deg. C	JAN1995	JUL2017	37	5.4%	0.0%	2.7%
Total Recoverable Pet. Hydrocarbons	mg/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Turbidity (Total)	NTU	JAN1995	JUL2017	52	7.7%	0.0%	5.8%
pH (Total)	SU	APR1995	JUL2017	36	2.8%	0.0%	0.0%

Chassahowitzka River - Fixed Station

Source: Springs Data

Blue Run Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	162.194595	Sum Observations	6001.2
Std Deviation	29.2953632	Variance	858.218303
Skewness	-4.8249131	Kurtosis	26.9563129
Uncorrected SS	1004258.06	Corrected SS	30895.8589
Coeff Variation	18.0618616	Std Error Mean	4.81612804

Basic Statistical Measures			
Location		Variability	
Mean	162.1946	Std Deviation	29.29536
Median	165.0000	Variance	858.21830
Mode	165.0000	Range	195.00000
		Interquartile Range	11.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	33.67738	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	196.0
99%	196.0
95%	189.0
90%	179.0
75% Q3	171.0
50% Median	165.0
25% Q1	160.0
10%	155.1
5%	132.0
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	20	179	21
132.0	15	179	24
155.0	17	183	22
155.1	30	189	11
156.6	25	196	27

Chassahowitzka River - Fixed Station

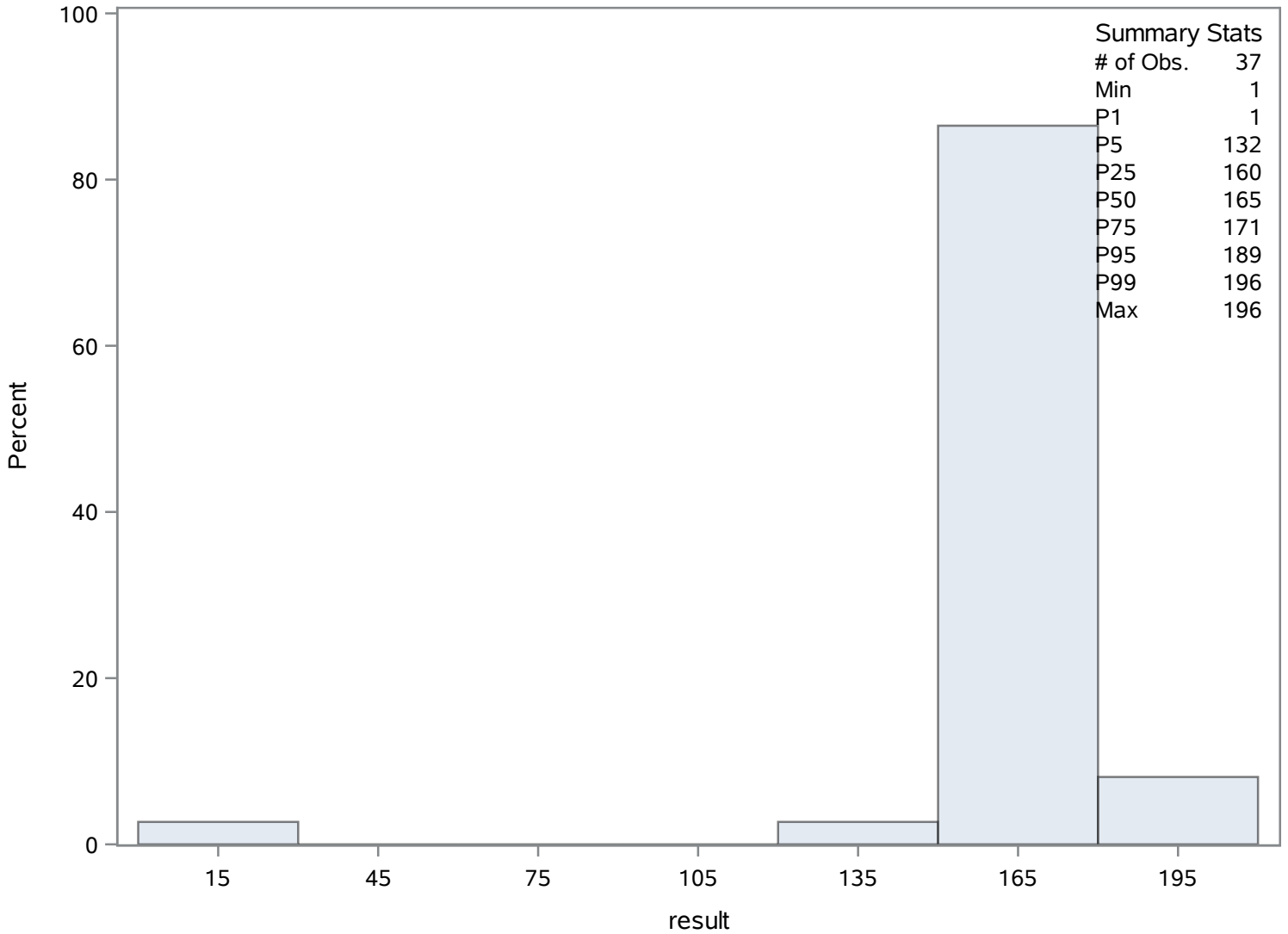
Source: Springs Data

Blue Run Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	40	Sum Weights	40
Mean	0.03278	Sum Observations	1.3112
Std Deviation	0.05656372	Variance	0.00319945
Skewness	4.8529509	Kurtosis	26.5407682
Uncorrected SS	0.16775984	Corrected SS	0.1247787
Coeff Variation	172.55557	Std Error Mean	0.00894351

Basic Statistical Measures			
Location		Variability	
Mean	0.032780	Std Deviation	0.05656
Median	0.018000	Variance	0.00320
Mode	0.010000	Range	0.34900
		Interquartile Range	0.01850

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.665228	Pr > t 	0.0007
Sign	M	20	Pr >= M 	<.0001
Signed Rank	S	410	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.3500
99%	0.3500
95%	0.1070
90%	0.0590
75% Q3	0.0285
50% Median	0.0180
25% Q1	0.0100
10%	0.0090
5%	0.0055
1%	0.0010
0% Min	0.0010

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Ammonia (N) (Dissolved) mg/L

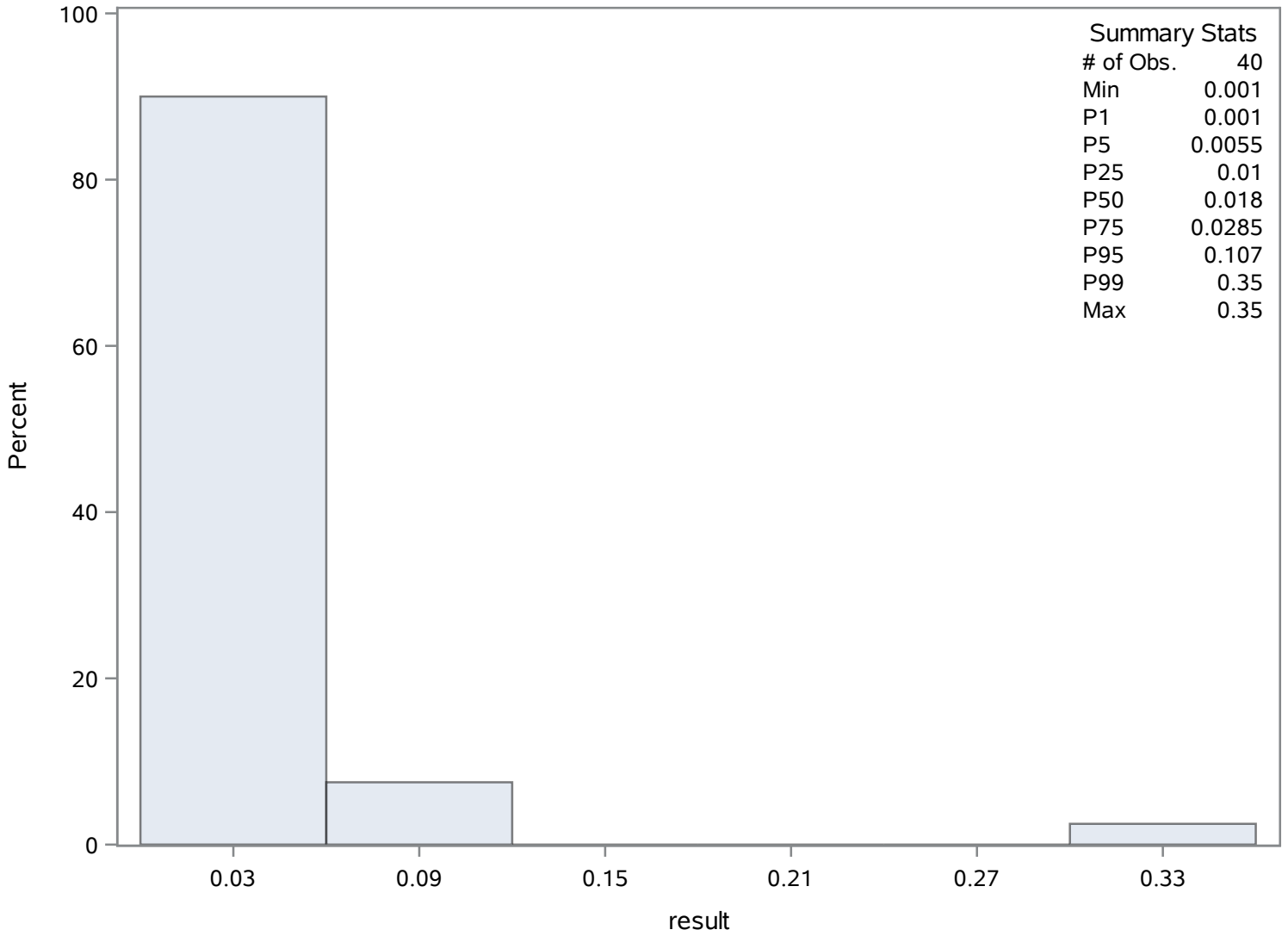
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	38	0.049	75
0.005	51	0.069	68
0.006	53	0.107	57
0.008	73	0.107	58
0.010	67	0.350	43

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Blue Run Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	48	Sum Weights	48
Mean	125.548542	Sum Observations	6026.33
Std Deviation	24.0584014	Variance	578.806677
Skewness	1.09830516	Kurtosis	1.09936903
Uncorrected SS	783800.857	Corrected SS	27203.9138
Coeff Variation	19.1626291	Std Error Mean	3.47253113

Basic Statistical Measures			
Location		Variability	
Mean	125.5485	Std Deviation	24.05840
Median	121.0650	Variance	578.80668
Mode	108.0000	Range	112.20000
		Interquartile Range	30.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	36.15476	Pr > t 	<.0001
Sign	M	24	Pr >= M 	<.0001
Signed Rank	S	588	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	199.000
99%	199.000
95%	178.000
90%	158.000
75% Q3	137.500
50% Median	121.065
25% Q1	107.000
10%	102.000
5%	100.000
1%	86.800
0% Min	86.800

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
86.8	104	158	111
99.4	102	177	122
100.0	79	178	98
100.0	78	178	99
102.0	113	199	123

Chassahowitzka River - Fixed Station

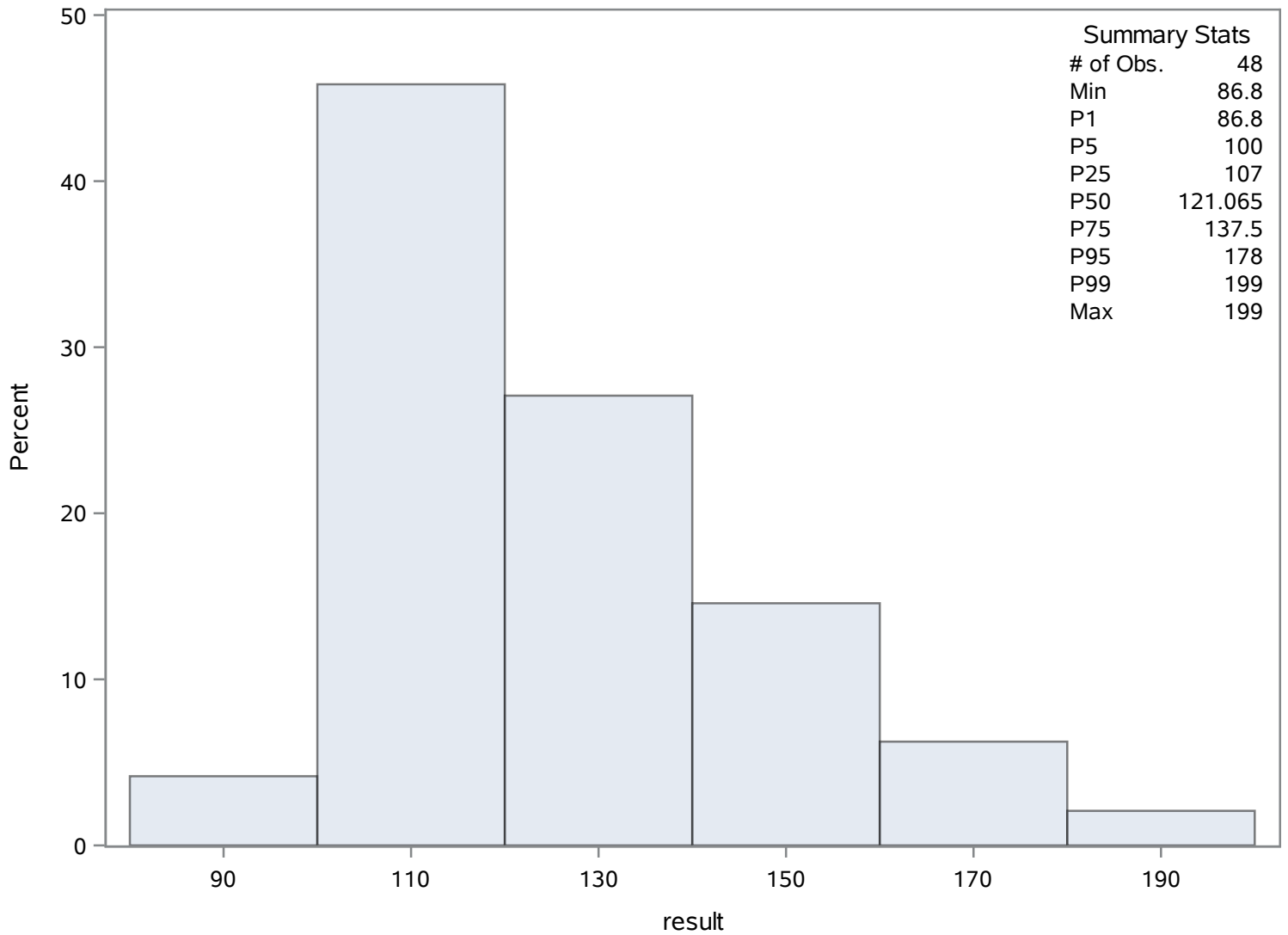
Source: Springs Data

Blue Run Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	3.97519231	Sum Observations	206.71
Std Deviation	4.28058613	Variance	18.3234176
Skewness	2.12681624	Kurtosis	4.70799688
Uncorrected SS	1756.2063	Corrected SS	934.494298
Coeff Variation	107.682492	Std Error Mean	0.59361049

Basic Statistical Measures			
Location		Variability	
Mean	3.975192	Std Deviation	4.28059
Median	2.500000	Variance	18.32342
Mode	0.770000	Range	18.00000
		Interquartile Range	3.51000

Note: The mode displayed is the smallest of 15 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.696634	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.50
99%	18.50
95%	17.72
90%	8.62
75% Q3	4.70
50% Median	2.50
25% Q1	1.19
10%	0.78
5%	0.62

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

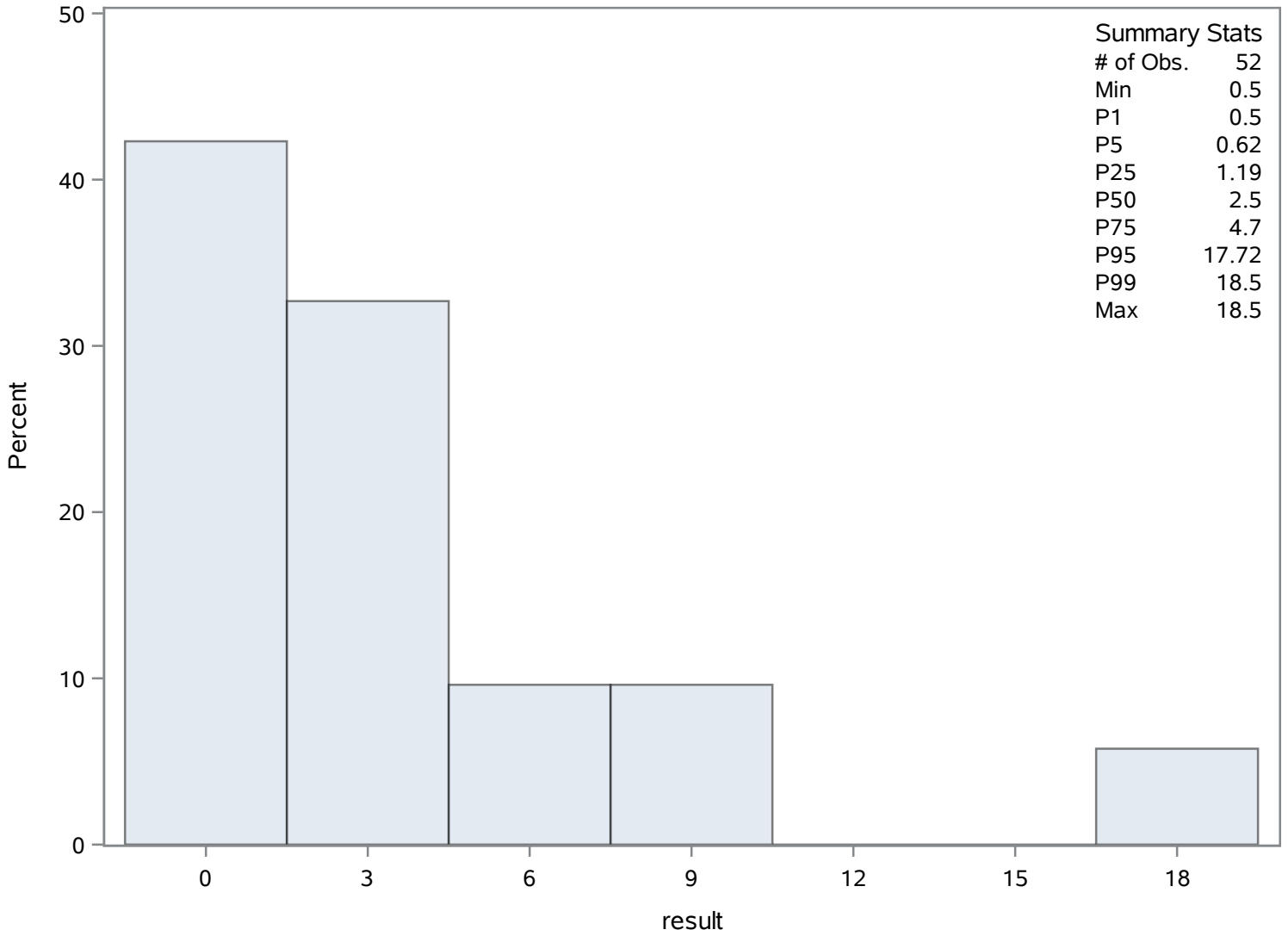
Quantiles (Definition 5)	
Level	Quantile
1%	0.50
0% Min	0.50

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	170	8.81	150
0.61	176	8.81	151
0.62	171	17.72	154
0.77	145	17.72	155
0.77	144	18.50	172

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Blue Run Spring

Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	2859.32635	Sum Observations	148684.97
Std Deviation	1044.8521	Variance	1091715.91
Skewness	0.7770102	Kurtosis	1.16864901
Uncorrected SS	480816363	Corrected SS	55677511.5
Coeff Variation	36.5418974	Std Error Mean	144.894916

Basic Statistical Measures			
Location		Variability	
Mean	2859.326	Std Deviation	1045
Median	2846.500	Variance	1091716
Mode	1070.000	Range	5340
		Interquartile Range	1580

Note: The mode displayed is the smallest of 16 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.73379	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6410.0
99%	6410.0
95%	4540.0
90%	4004.0
75% Q3	3535.0
50% Median	2846.5
25% Q1	1955.0
10%	1865.0
5%	1560.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1070.0
0% Min	1070.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1070.00	207	4050	223
1070.00	206	4540	198
1560.00	187	4540	199
1560.00	186	4820	226
1840.79	216	6410	227

Chassahowitzka River - Fixed Station

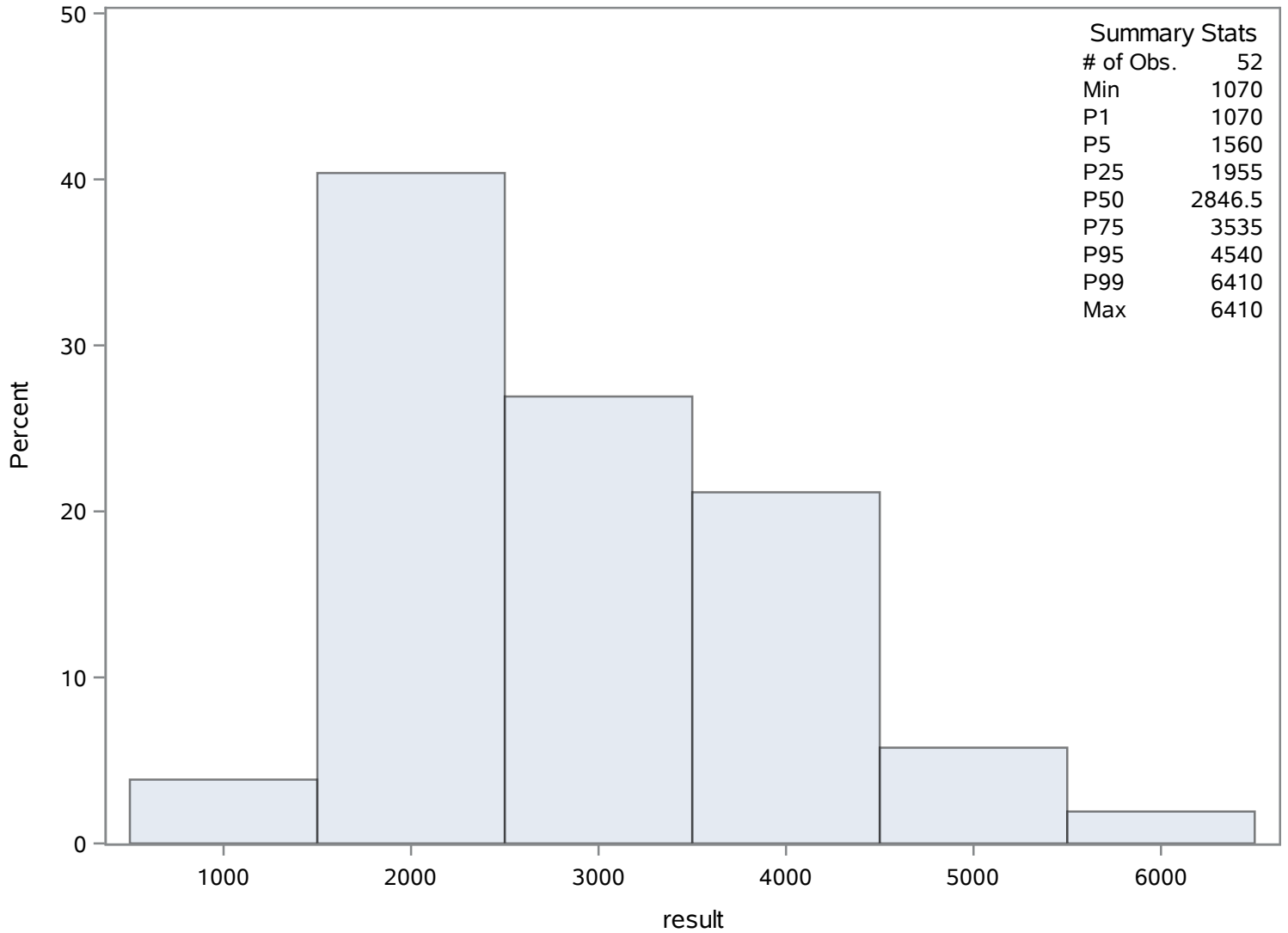
Source: Springs Data

Blue Run Spring

Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	0.18427778	Sum Observations	6.634
Std Deviation	0.06598338	Variance	0.00435381
Skewness	0.31416262	Kurtosis	5.54305241
Uncorrected SS	1.374882	Corrected SS	0.15238322
Coeff Variation	35.8064766	Std Error Mean	0.01099723

Basic Statistical Measures			
Location		Variability	
Mean	0.184278	Std Deviation	0.06598
Median	0.190000	Variance	0.00435
Mode	0.190000	Range	0.41800
		Interquartile Range	0.04700

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.75675	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.420
99%	0.420
95%	0.270
90%	0.230
75% Q3	0.210
50% Median	0.190
25% Q1	0.163
10%	0.132
5%	0.050
1%	0.002
0% Min	0.002

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Dissolved) mg/L

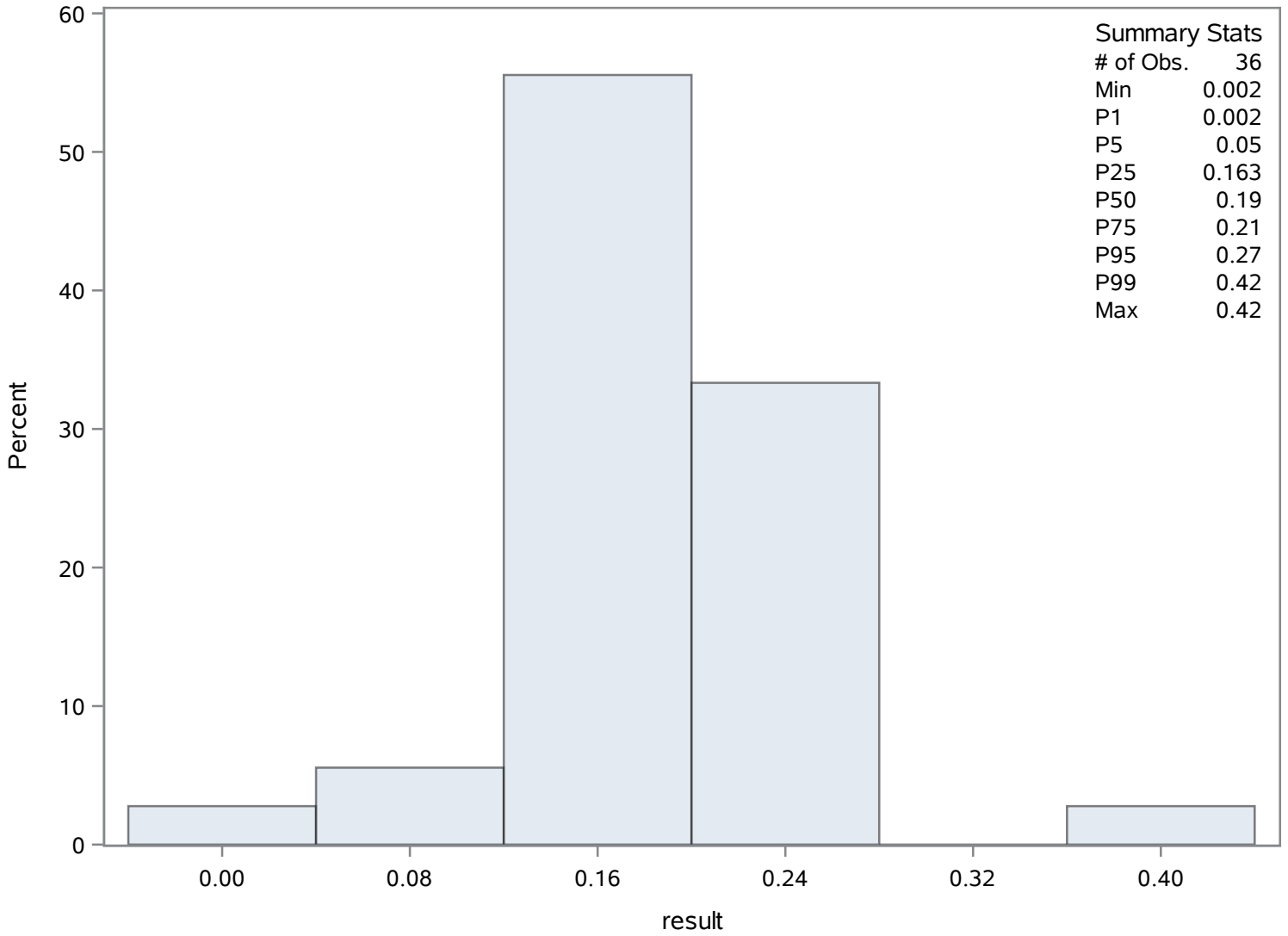
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	243	0.22	260
0.050	246	0.23	255
0.050	244	0.24	262
0.132	242	0.27	263
0.143	230	0.42	245

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	20	Sum Weights	20
Mean	0.1568	Sum Observations	3.136
Std Deviation	0.08467685	Variance	0.00717017
Skewness	1.07222214	Kurtosis	4.57493129
Uncorrected SS	0.627958	Corrected SS	0.1362332
Coeff Variation	54.0030912	Std Error Mean	0.01893432

Basic Statistical Measures			
Location		Variability	
Mean	0.156800	Std Deviation	0.08468
Median	0.163000	Variance	0.00717
Mode	0.050000	Range	0.41800
		Interquartile Range	0.05050

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.281259	Pr > t 	<.0001
Sign	M	10	Pr >= M 	<.0001
Signed Rank	S	105	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.4200
99%	0.4200
95%	0.3130
90%	0.1980
75% Q3	0.1880
50% Median	0.1630
25% Q1	0.1375
10%	0.0500
5%	0.0260

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.0020
0% Min	0.0020

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	279	0.188	277
0.050	283	0.190	269
0.050	282	0.190	276
0.050	280	0.206	275
0.132	278	0.420	281

Chassahowitzka River - Fixed Station

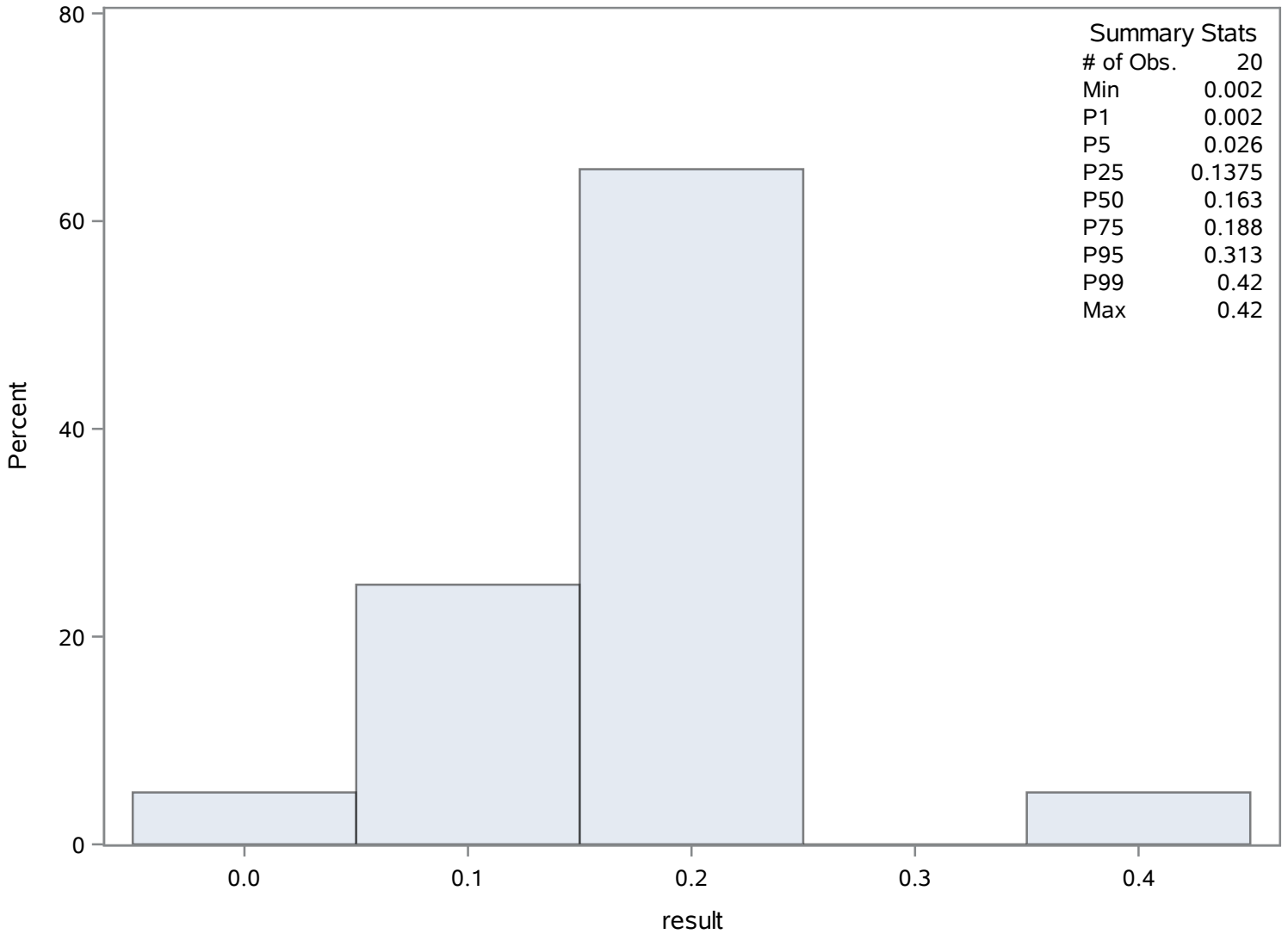
Source: Springs Data

Blue Run Spring

Fluoride (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	169.397308	Sum Observations	8808.66
Std Deviation	311.514672	Variance	97041.3907
Skewness	4.14704014	Kurtosis	17.8080498
Uncorrected SS	6441274.21	Corrected SS	4949110.93
Coeff Variation	183.895881	Std Error Mean	43.1993124

Basic Statistical Measures			
Location		Variability	
Mean	169.3973	Std Deviation	311.51467
Median	72.3500	Variance	97041
Mode	38.0000	Range	1618
		Interquartile Range	155.50000

Note: The mode displayed is the smallest of 16 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.921296	Pr > t 	0.0003
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1623.00
99%	1623.00
95%	559.00
90%	270.00
75% Q3	196.50
50% Median	72.35
25% Q1	41.00
10%	20.60
5%	7.74

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	5.42
0% Min	5.42

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.42	330	270	313
5.60	335	367	332
7.74	336	559	325
12.50	326	1623	306
14.90	323	1623	307

Chassahowitzka River - Fixed Station

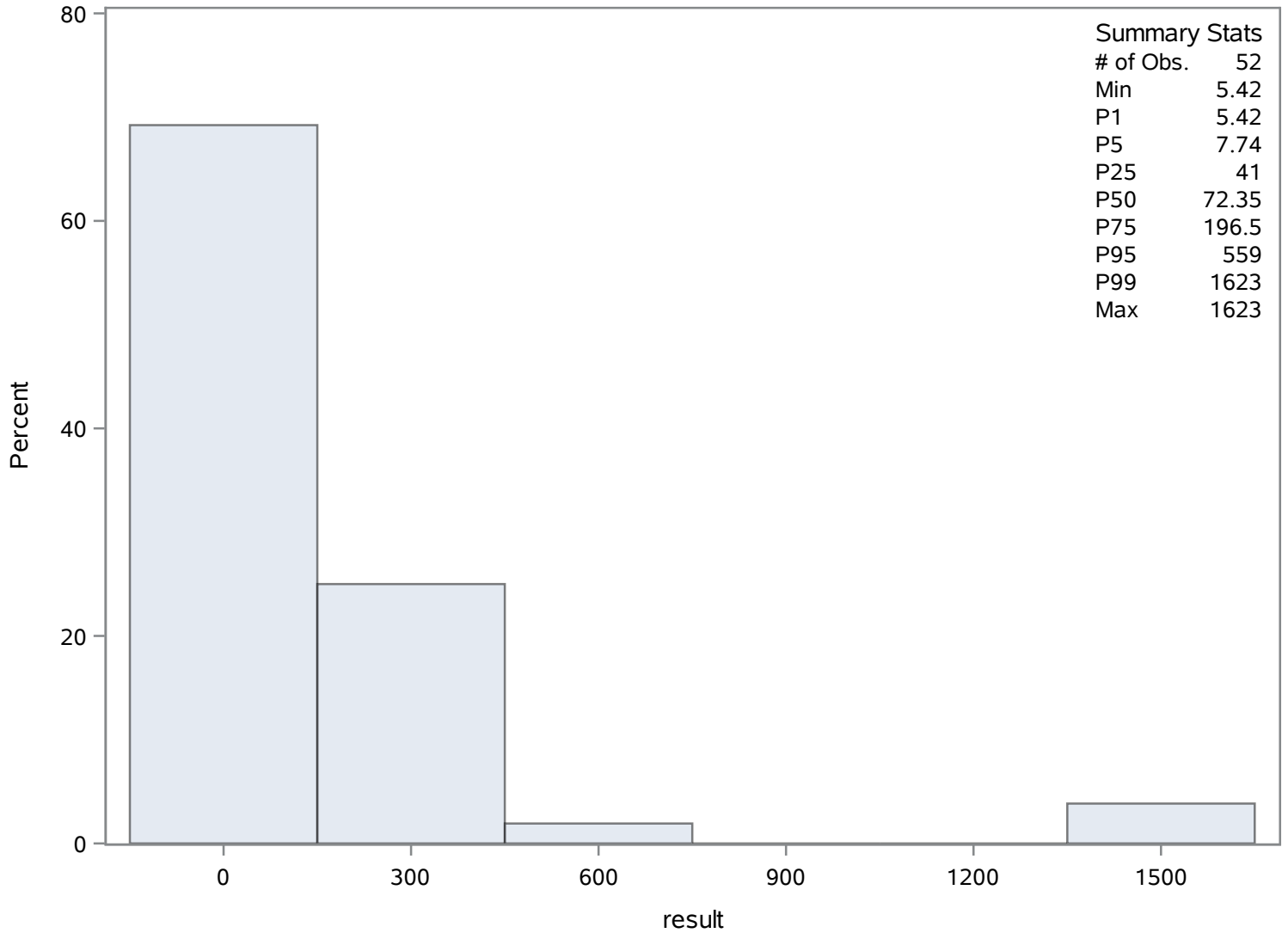
Source: Springs Data

Blue Run Spring

Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	199.959722	Sum Observations	7198.55
Std Deviation	67.6184345	Variance	4572.25269
Skewness	1.01430103	Kurtosis	2.27505755
Uncorrected SS	1599448.9	Corrected SS	160028.844
Coeff Variation	33.8160274	Std Error Mean	11.2697391

Basic Statistical Measures			
Location		Variability	
Mean	199.9597	Std Deviation	67.61843
Median	202.5000	Variance	4572
Mode	136.0000	Range	349.20000
		Interquartile Range	94.50000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.74307	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	427.0
99%	427.0
95%	314.0
90%	269.0
75% Q3	238.0
50% Median	202.5
25% Q1	143.5
10%	130.0
5%	116.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

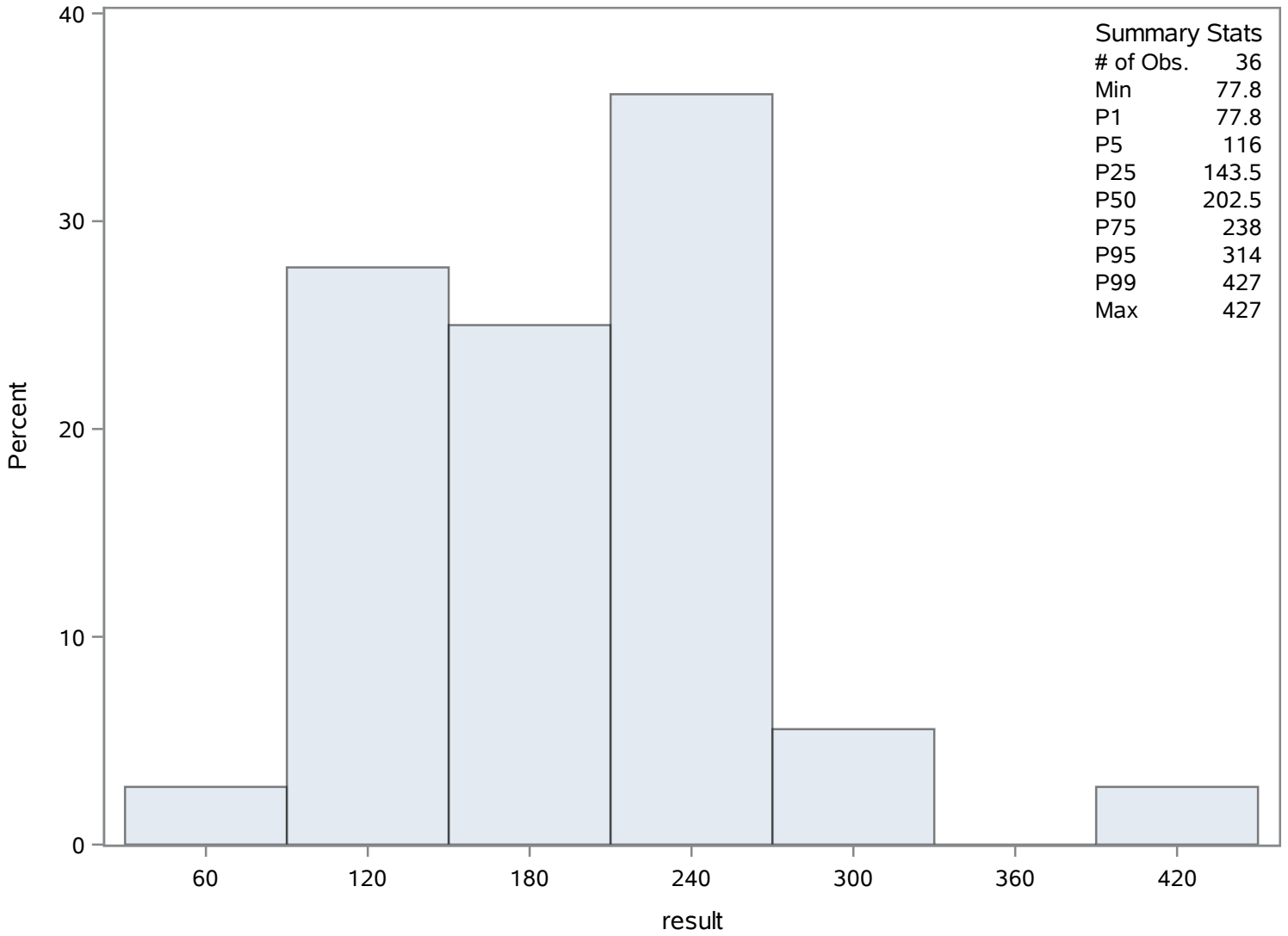
Quantiles (Definition 5)	
Level	Quantile
1%	77.8
0% Min	77.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
77.8	352	265	349
116.0	342	269	367
128.0	350	301	348
130.0	338	314	370
134.0	361	427	371

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	22	Sum Weights	22
Mean	0.24368636	Sum Observations	5.3611
Std Deviation	0.07056191	Variance	0.00497898
Skewness	-2.0691865	Kurtosis	5.07277814
Uncorrected SS	1.41098561	Corrected SS	0.10455865
Coeff Variation	28.9560355	Std Error Mean	0.01504385

Basic Statistical Measures			
Location		Variability	
Mean	0.243686	Std Deviation	0.07056
Median	0.262500	Variance	0.00498
Mode	.	Range	0.31000
		Interquartile Range	0.05400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.1984	Pr > t 	<.0001
Sign	M	11	Pr >= M 	<.0001
Signed Rank	S	126.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.3200
99%	0.3200
95%	0.3070
90%	0.3010
75% Q3	0.2850
50% Median	0.2625
25% Q1	0.2310
10%	0.1690
5%	0.1190
1%	0.0100
0% Min	0.0100

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	383	0.2931	395
0.119	387	0.2970	376
0.169	374	0.3010	384
0.196	385	0.3070	382
0.210	391	0.3200	390

Chassahowitzka River - Fixed Station

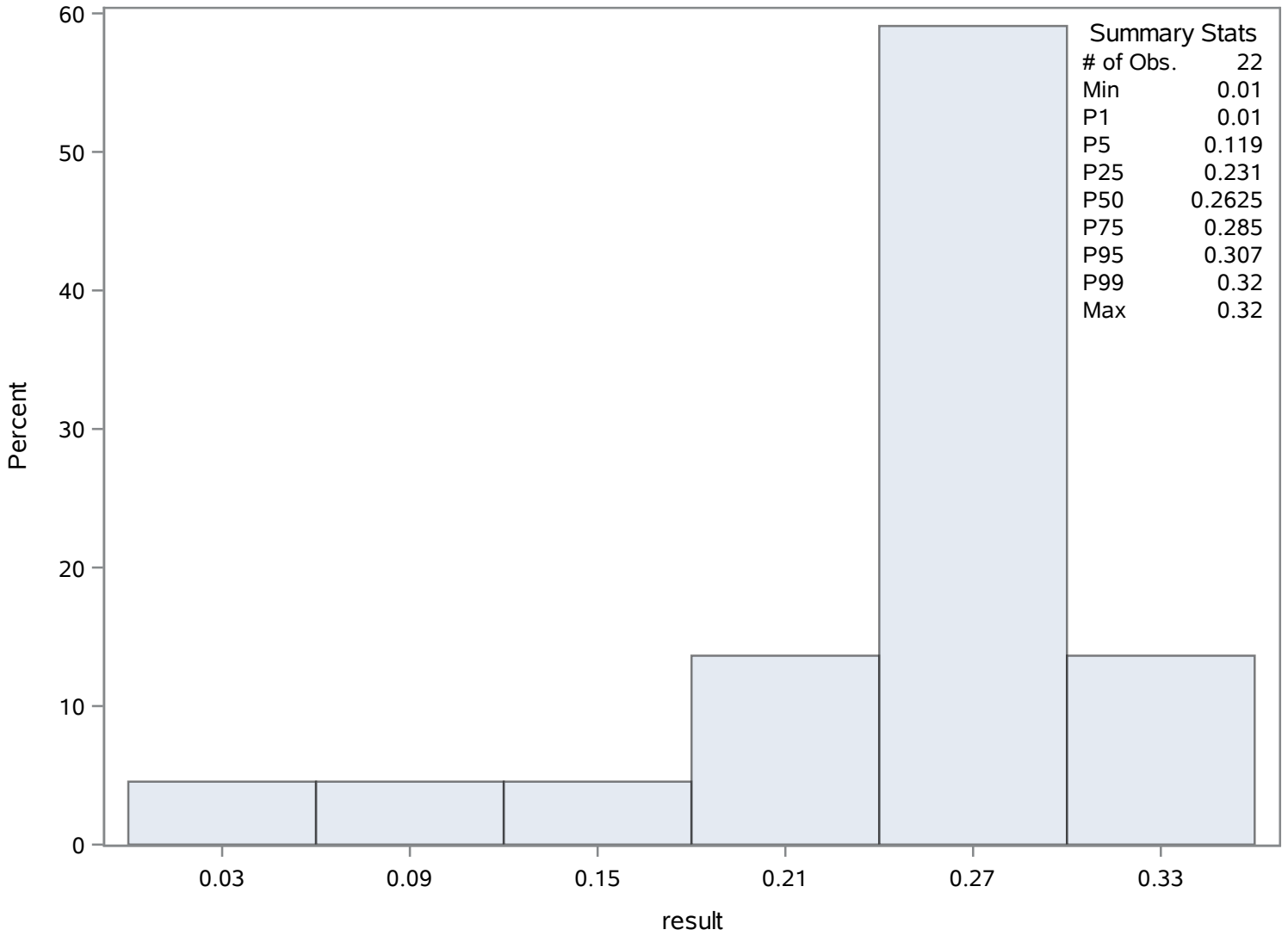
Source: Springs Data

Blue Run Spring

Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	30	Sum Weights	30
Mean	0.24419667	Sum Observations	7.3259
Std Deviation	0.08095819	Variance	0.00655423
Skewness	-1.6809112	Kurtosis	3.06387466
Uncorrected SS	1.97903301	Corrected SS	0.19007265
Coeff Variation	33.1528664	Std Error Mean	0.01478088

Basic Statistical Measures			
Location		Variability	
Mean	0.244197	Std Deviation	0.08096
Median	0.262500	Variance	0.00655
Mode	0.175000	Range	0.34200
		Interquartile Range	0.07590

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.52112	Pr > t 	<.0001
Sign	M	15	Pr >= M 	<.0001
Signed Rank	S	232.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.3520
99%	0.3520
95%	0.3340
90%	0.3200
75% Q3	0.2949
50% Median	0.2625
25% Q1	0.2190
10%	0.1470
5%	0.0130

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

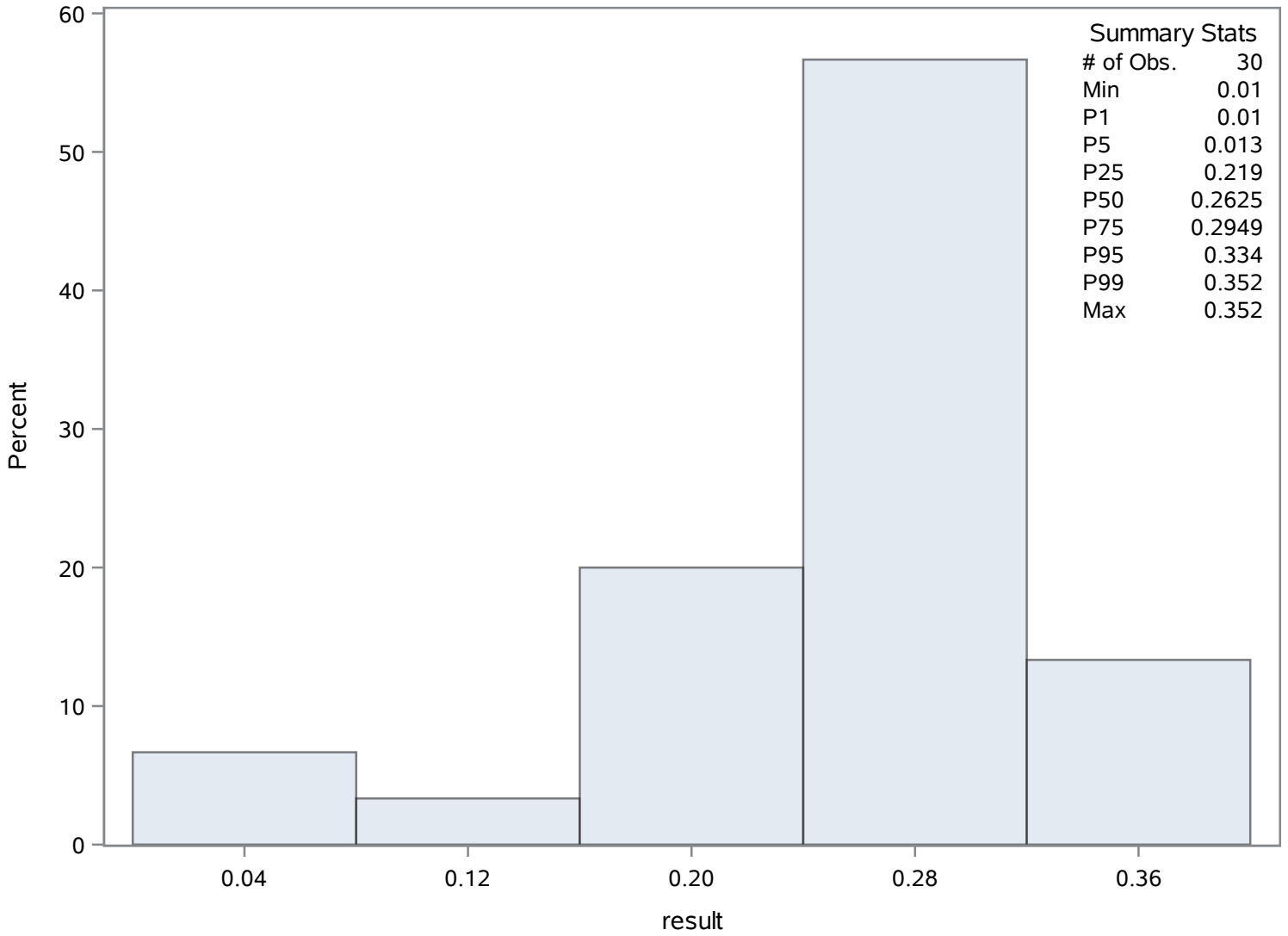
Quantiles (Definition 5)	
Level	Quantile
1%	0.0100
0% Min	0.0100

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	408	0.307	407
0.013	423	0.320	415
0.119	412	0.320	425
0.175	397	0.334	424
0.175	396	0.352	422

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	0.0052619	Sum Observations	0.1105
Std Deviation	0.00288799	Variance	8.34048E-6
Skewness	0.35546239	Kurtosis	-0.4735312
Uncorrected SS	0.00074825	Corrected SS	0.00016681
Coeff Variation	54.8848448	Std Error Mean	0.00063021

Basic Statistical Measures			
Location		Variability	
Mean	0.005262	Std Deviation	0.00289
Median	0.005000	Variance	8.34048E-6
Mode	0.005000	Range	0.00900
		Interquartile Range	0.00300

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.349437	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.010
99%	0.010
95%	0.010
90%	0.010
75% Q3	0.006
50% Median	0.005
25% Q1	0.003
10%	0.001
5%	0.001
1%	0.001
0% Min	0.001

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrite (N) (Dissolved) mg/L

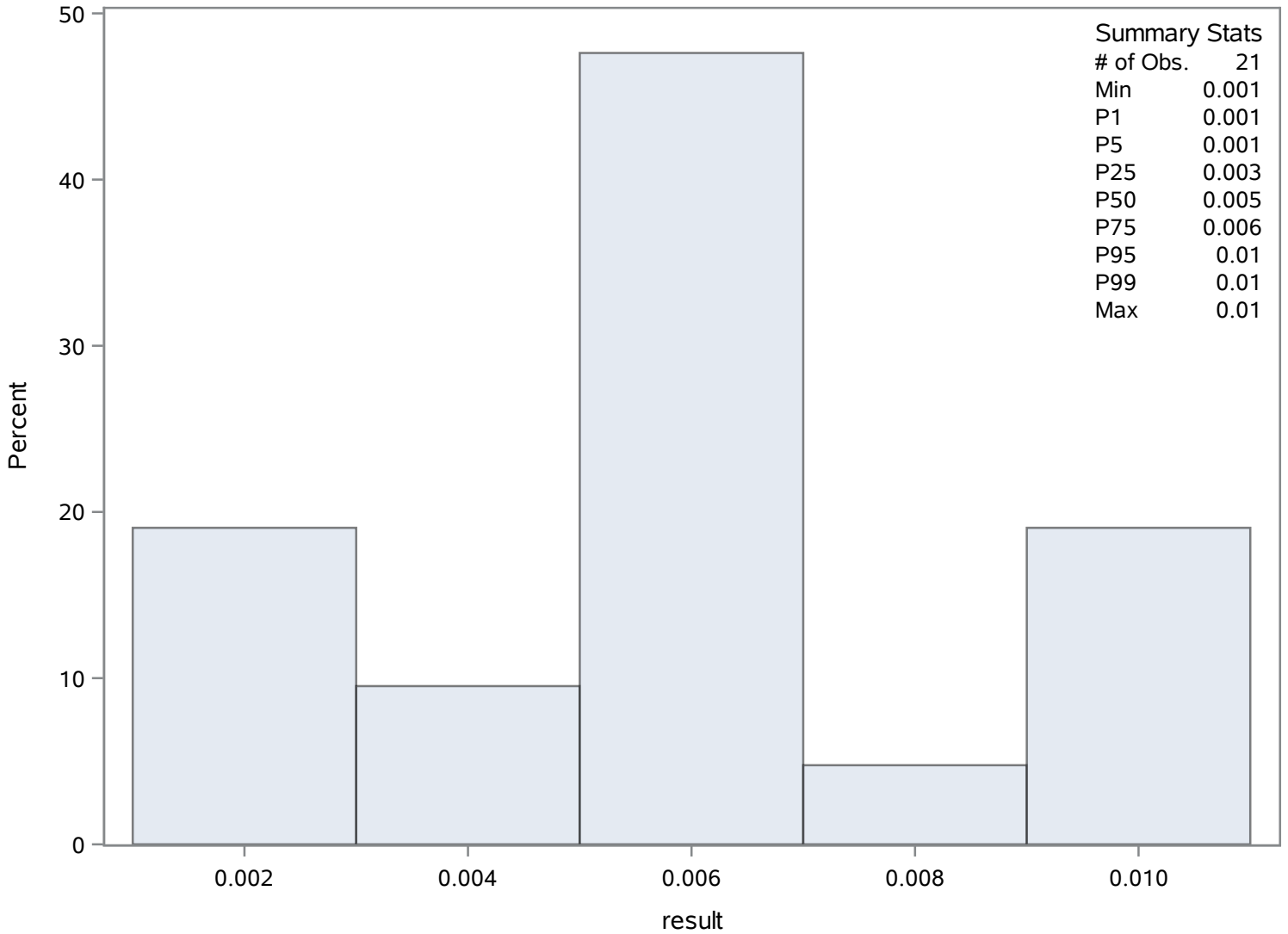
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0010	431	0.007	437
0.0010	429	0.010	432
0.0010	427	0.010	433
0.0025	438	0.010	434
0.0030	430	0.010	435

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	22	Sum Weights	22
Mean	0.49855455	Sum Observations	10.9682
Std Deviation	0.16019899	Variance	0.02566372
Skewness	1.25869191	Kurtosis	0.83514084
Uncorrected SS	6.00718404	Corrected SS	0.53893807
Coeff Variation	32.1326916	Std Error Mean	0.03415454

Basic Statistical Measures			
Location		Variability	
Mean	0.498555	Std Deviation	0.16020
Median	0.440000	Variance	0.02566
Mode	0.440000	Range	0.60000
		Interquartile Range	0.08480

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.59702	Pr > t 	<.0001
Sign	M	11	Pr >= M 	<.0001
Signed Rank	S	126.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.8800
99%	0.8800
95%	0.7900
90%	0.7900
75% Q3	0.5100
50% Median	0.4400
25% Q1	0.4252
10%	0.4000
5%	0.2900
1%	0.2800
0% Min	0.2800

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrogen- Total (Total) mg/L

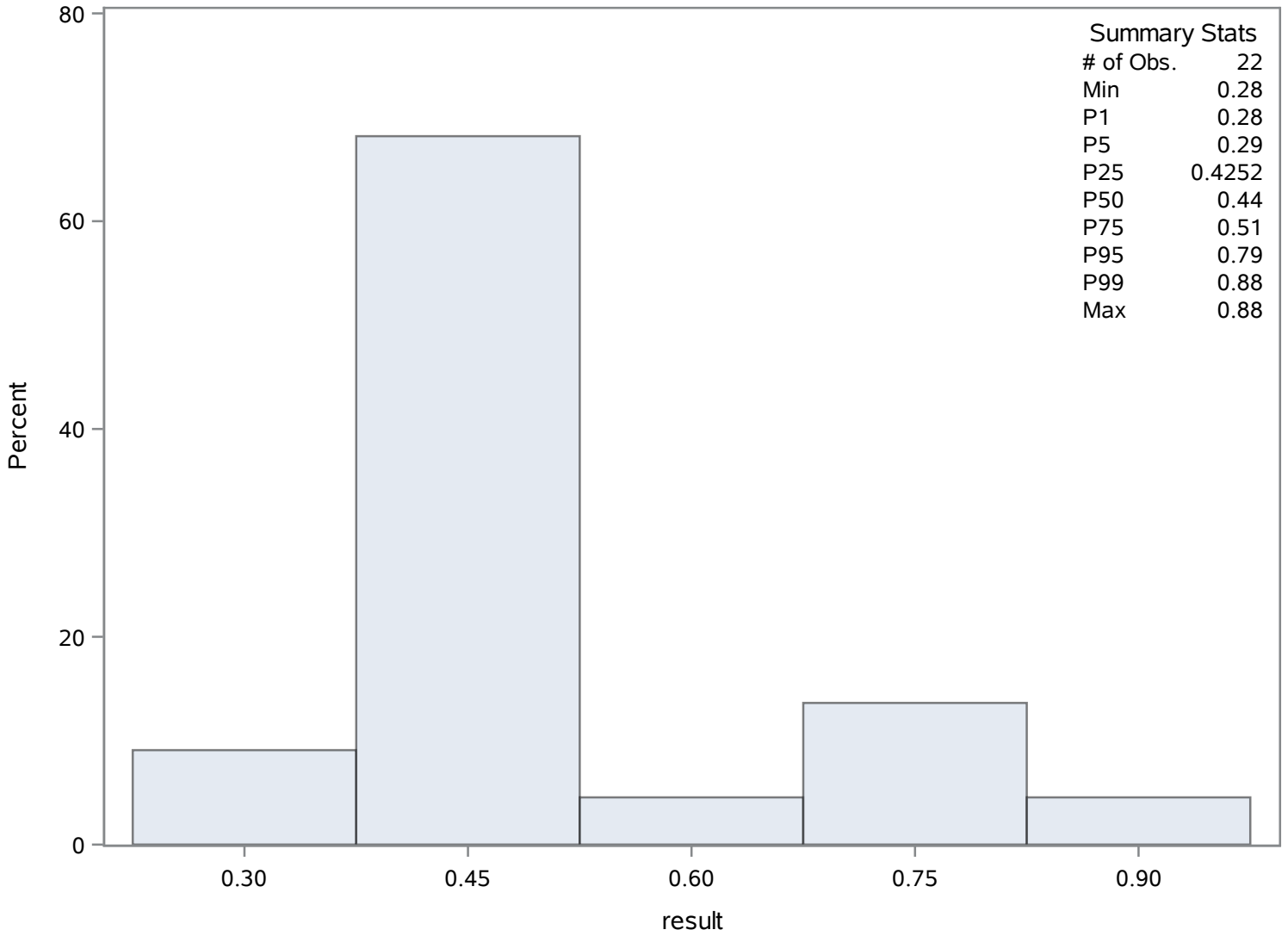
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.28	454	0.55	453
0.29	456	0.76	459
0.40	466	0.79	451
0.40	457	0.79	452
0.41	455	0.88	463

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	0.02103269	Sum Observations	1.0937
Std Deviation	0.01858939	Variance	0.00034557
Skewness	2.50025191	Kurtosis	6.00132
Uncorrected SS	0.04062729	Corrected SS	0.01762383
Coeff Variation	88.3833066	Std Error Mean	0.00257788

Basic Statistical Measures			
Location		Variability	
Mean	0.021033	Std Deviation	0.01859
Median	0.013000	Variance	0.0003456
Mode	0.010000	Range	0.07700
		Interquartile Range	0.01150

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.158897	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0860
99%	0.0860
95%	0.0800
90%	0.0400
75% Q3	0.0215
50% Median	0.0130
25% Q1	0.0100
10%	0.0100
5%	0.0100
1%	0.0090
0% Min	0.0090

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Orthophosphate (P) (Dissolved) mg/L

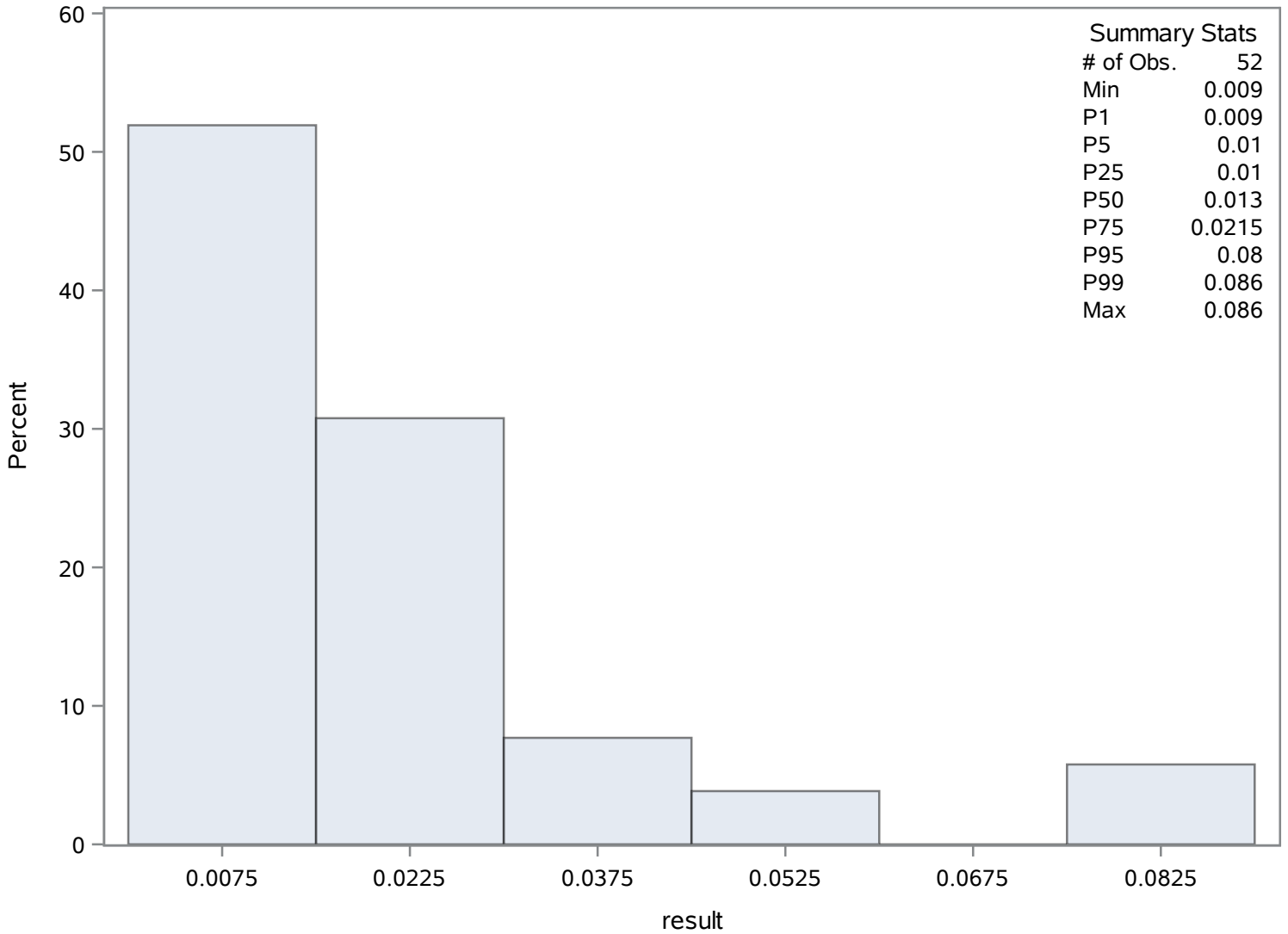
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.009	513	0.050	483
0.009	479	0.050	484
0.010	517	0.080	493
0.010	511	0.086	489
0.010	509	0.086	490

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	53	Sum Weights	53
Mean	0.03884717	Sum Observations	2.0589
Std Deviation	0.03143099	Variance	0.00098791
Skewness	1.89441507	Kurtosis	3.37167241
Uncorrected SS	0.13135361	Corrected SS	0.05137117
Coeff Variation	80.9093443	Std Error Mean	0.00431738

Basic Statistical Measures			
Location		Variability	
Mean	0.038847	Std Deviation	0.03143
Median	0.026000	Variance	0.0009879
Mode	0.019000	Range	0.15100
		Interquartile Range	0.02900

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.99786	Pr > t 	<.0001
Sign	M	26.5	Pr >= M 	<.0001
Signed Rank	S	715.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.157
99%	0.157
95%	0.107
90%	0.088
75% Q3	0.048
50% Median	0.026
25% Q1	0.019
10%	0.018
5%	0.014
1%	0.006
0% Min	0.006

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Phosphorus- Total (Total) mg/L

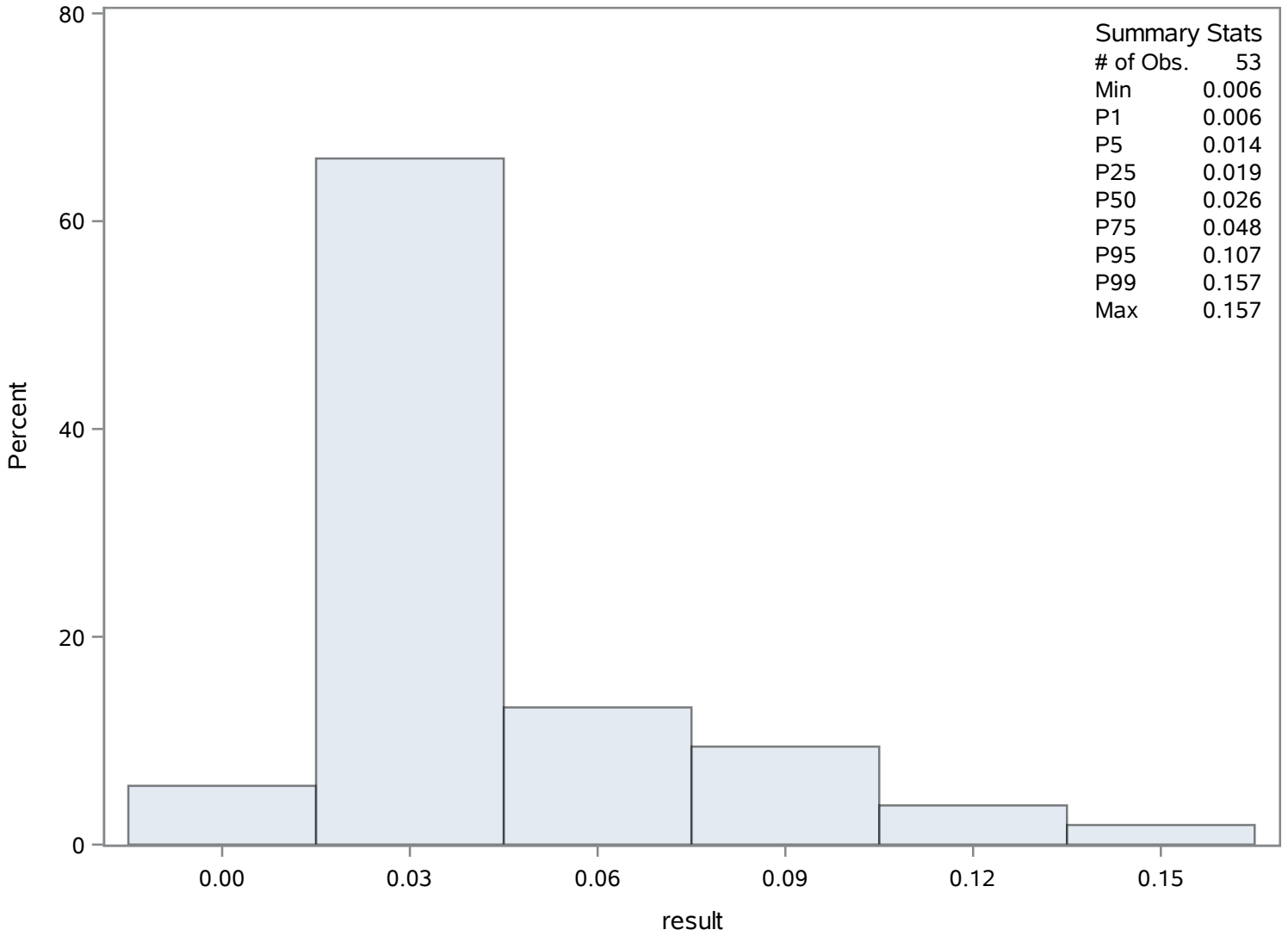
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	533	0.104	541
0.010	534	0.104	542
0.014	571	0.107	560
0.017	532	0.107	561
0.017	531	0.157	554

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	60.6313889	Sum Observations	2182.73
Std Deviation	20.4061275	Variance	416.410041
Skewness	0.77517113	Kurtosis	1.37139675
Uncorrected SS	146916.303	Corrected SS	14574.3514
Coeff Variation	33.656045	Std Error Mean	3.40102126

Basic Statistical Measures			
Location		Variability	
Mean	60.63139	Std Deviation	20.40613
Median	61.90000	Variance	416.41004
Mode	41.00000	Range	101.50000
		Interquartile Range	30.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.82741	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	125.0
99%	125.0
95%	93.1
90%	83.3
75% Q3	73.1
50% Median	61.9
25% Q1	42.8
10%	37.1
5%	36.0
1%	23.5
0% Min	23.5

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
23.5	588	77.8	603
36.0	578	83.3	585
37.0	574	92.3	584
37.1	586	93.1	606
38.7	596	125.0	607

Chassahowitzka River - Fixed Station

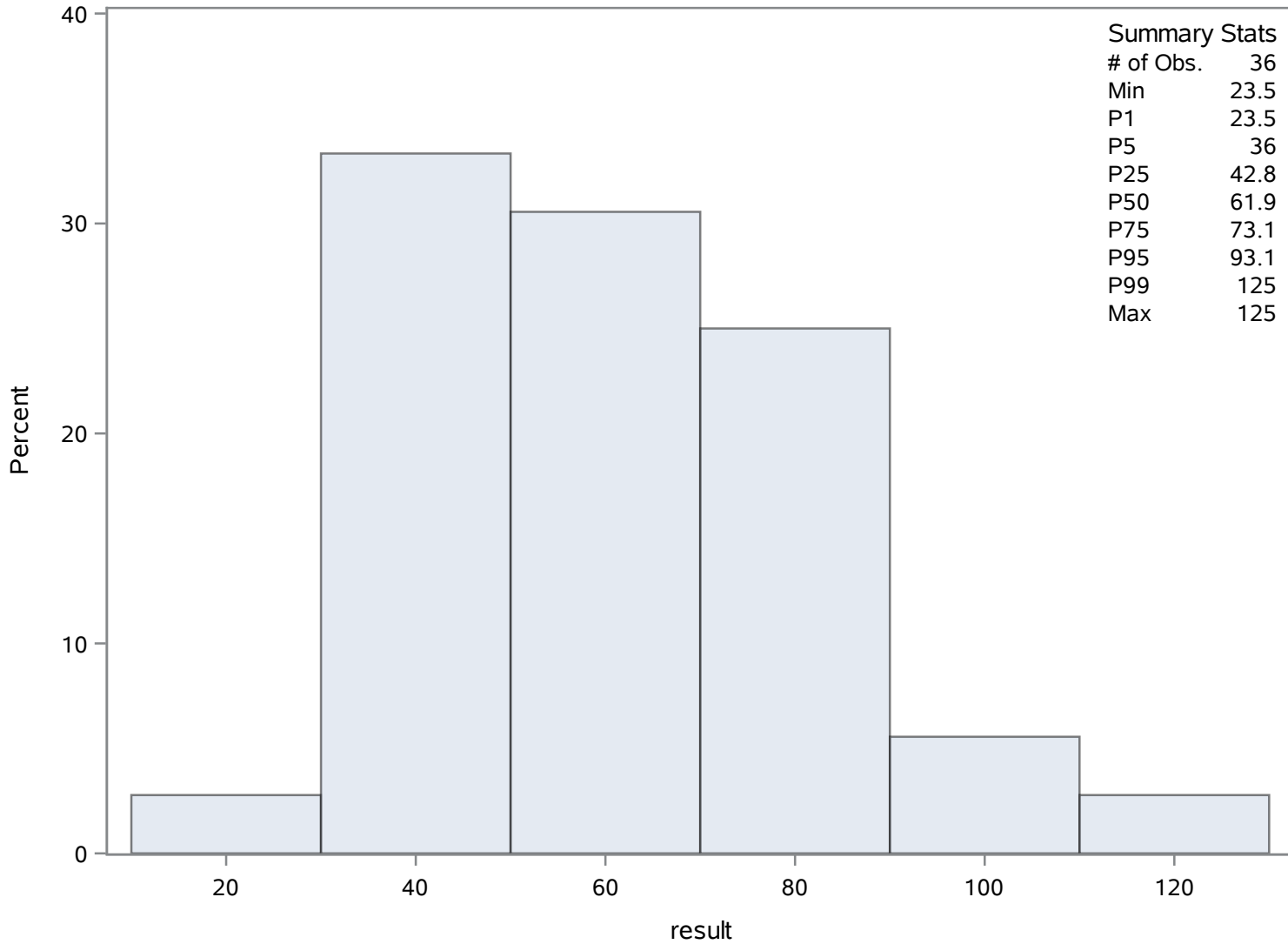
Source: Springs Data

Blue Run Spring

Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	51	Sum Weights	51
Mean	5370.76471	Sum Observations	273909
Std Deviation	1944.42828	Variance	3780801.34
Skewness	0.95967446	Kurtosis	1.55837769
Uncorrected SS	1660140857	Corrected SS	189040067
Coeff Variation	36.2039372	Std Error Mean	272.27442

Basic Statistical Measures			
Location		Variability	
Mean	5370.765	Std Deviation	1944
Median	5330.000	Variance	3780801
Mode	7370.000	Range	9920
		Interquartile Range	2967

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.72556	Pr > t 	<.0001
Sign	M	25.5	Pr >= M 	<.0001
Signed Rank	S	663	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12200
99%	12200
95%	8446
90%	7450
75% Q3	6770
50% Median	5330
25% Q1	3803
10%	3440
5%	3030
1%	2280
0% Min	2280

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Residues- Filterable (TDS) (Dissolved) mg/L

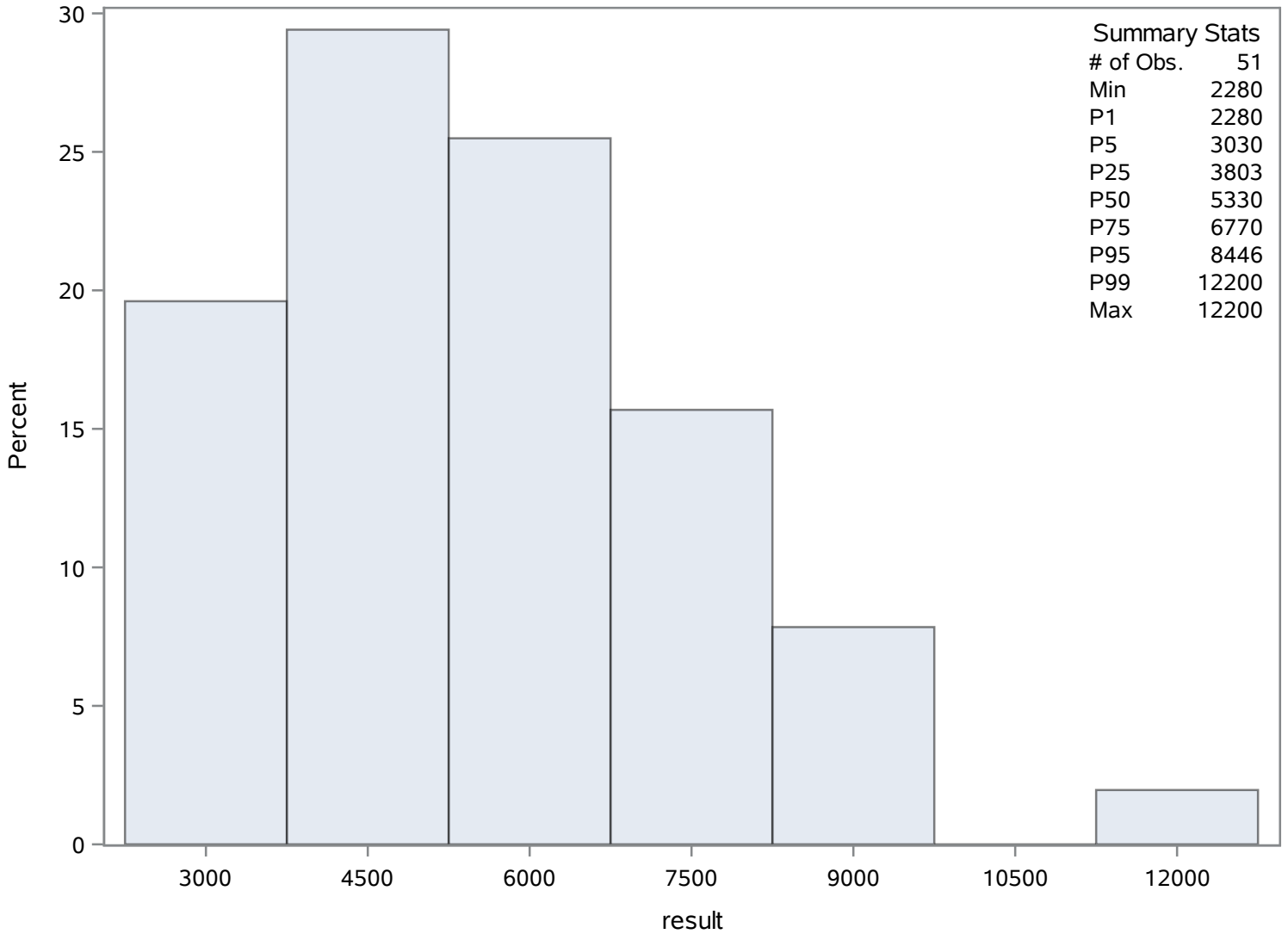
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2280	638	8360	646
2280	637	8446	630
3030	619	8446	631
3030	618	8770	657
3440	611	12200	658

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	1611.96722	Sum Observations	58030.82
Std Deviation	559.459565	Variance	312995.004
Skewness	0.90080371	Kurtosis	1.84023208
Uncorrected SS	104498605	Corrected SS	10954825.2
Coeff Variation	34.706634	Std Error Mean	93.2432608

Basic Statistical Measures			
Location		Variability	
Mean	1611.967	Std Deviation	559.45956
Median	1650.000	Variance	312995
Mode	1540.000	Range	2833
		Interquartile Range	804.50000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.28776	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3440.0
99%	3440.0
95%	2530.0
90%	2176.0
75% Q3	1943.0
50% Median	1650.0
25% Q1	1138.5
10%	1010.0
5%	896.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	607.0
0% Min	607.0

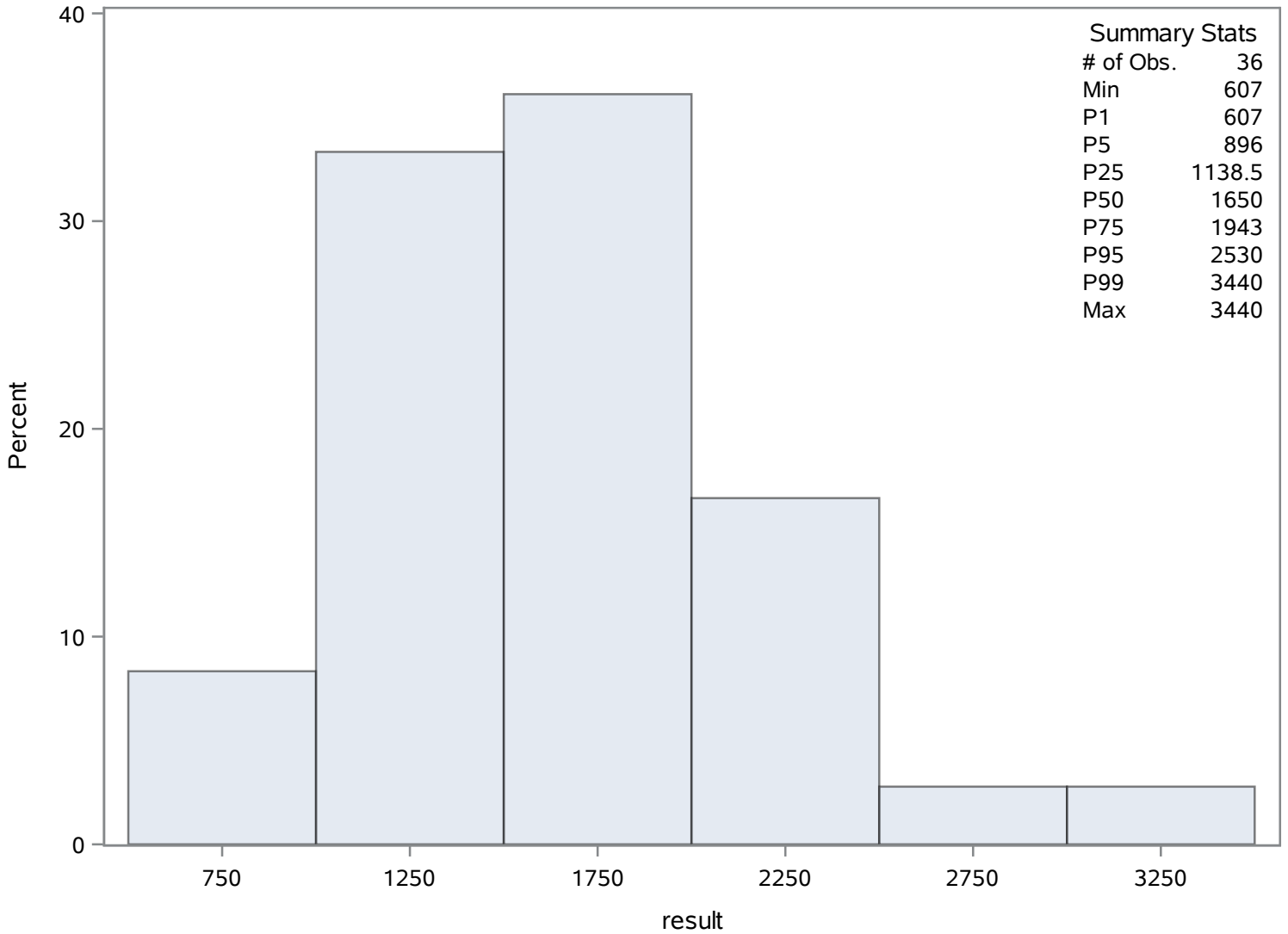
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
607	675	2110	690
896	665	2176	672
957	661	2460	671
1010	684	2530	693
1050	683	3440	694

Chassahowitzka River - Fixed Station

Source: Springs Data
Blue Run Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	65	Sum Weights	65
Mean	9977.25538	Sum Observations	648521.6
Std Deviation	3092.98647	Variance	9566565.3
Skewness	0.65301995	Kurtosis	1.19912738
Uncorrected SS	7082725805	Corrected SS	612260179
Coeff Variation	31.0003739	Std Error Mean	383.637756

Basic Statistical Measures			
Location		Variability	
Mean	9977.26	Std Deviation	3093
Median	10148.00	Variance	9566565
Mode	6270.00	Range	15750
		Interquartile Range	4088

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.00697	Pr > t 	<.0001
Sign	M	32.5	Pr >= M 	<.0001
Signed Rank	S	1072.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	19610.0
99%	19610.0
95%	14991.0
90%	13385.1
75% Q3	11598.0
50% Median	10148.0
25% Q1	7510.0
10%	6420.0
5%	6260.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

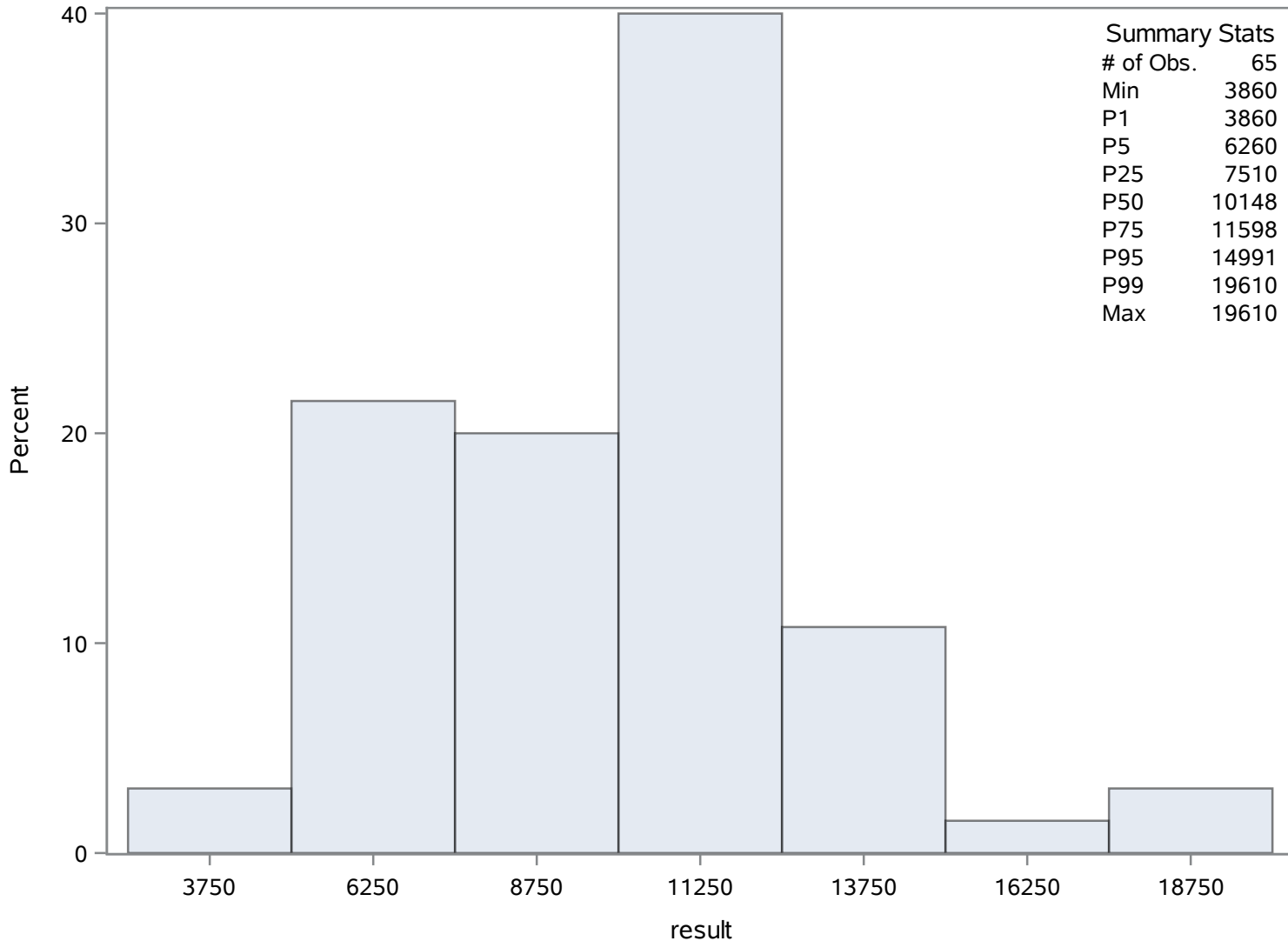
Quantiles (Definition 5)	
Level	Quantile
1%	3860.0
0% Min	3860.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3860	715	14270.0	707
4060	716	14991.0	755
5700	701	15040.5	754
6260	736	19250.2	756
6270	735	19610.0	757

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Blue Run Spring

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	414.038846	Sum Observations	21530.02
Std Deviation	146.945426	Variance	21592.9583
Skewness	0.86629851	Kurtosis	1.26470142
Uncorrected SS	10015505.5	Corrected SS	1101240.88
Coeff Variation	35.4907342	Std Error Mean	20.3776642

Basic Statistical Measures			
Location		Variability	
Mean	414.0388	Std Deviation	146.94543
Median	419.0000	Variance	21593
Mode	285.0000	Range	768.00000
		Interquartile Range	222.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.31827	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	920.0
99%	920.0
95%	657.0
90%	570.0
75% Q3	510.5
50% Median	419.0
25% Q1	288.0
10%	270.0
5%	230.0
1%	152.0
0% Min	152.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
152	790	588	807
230	771	657	782
230	770	657	783
252	791	691	810
259	801	920	811

Chassahowitzka River - Fixed Station

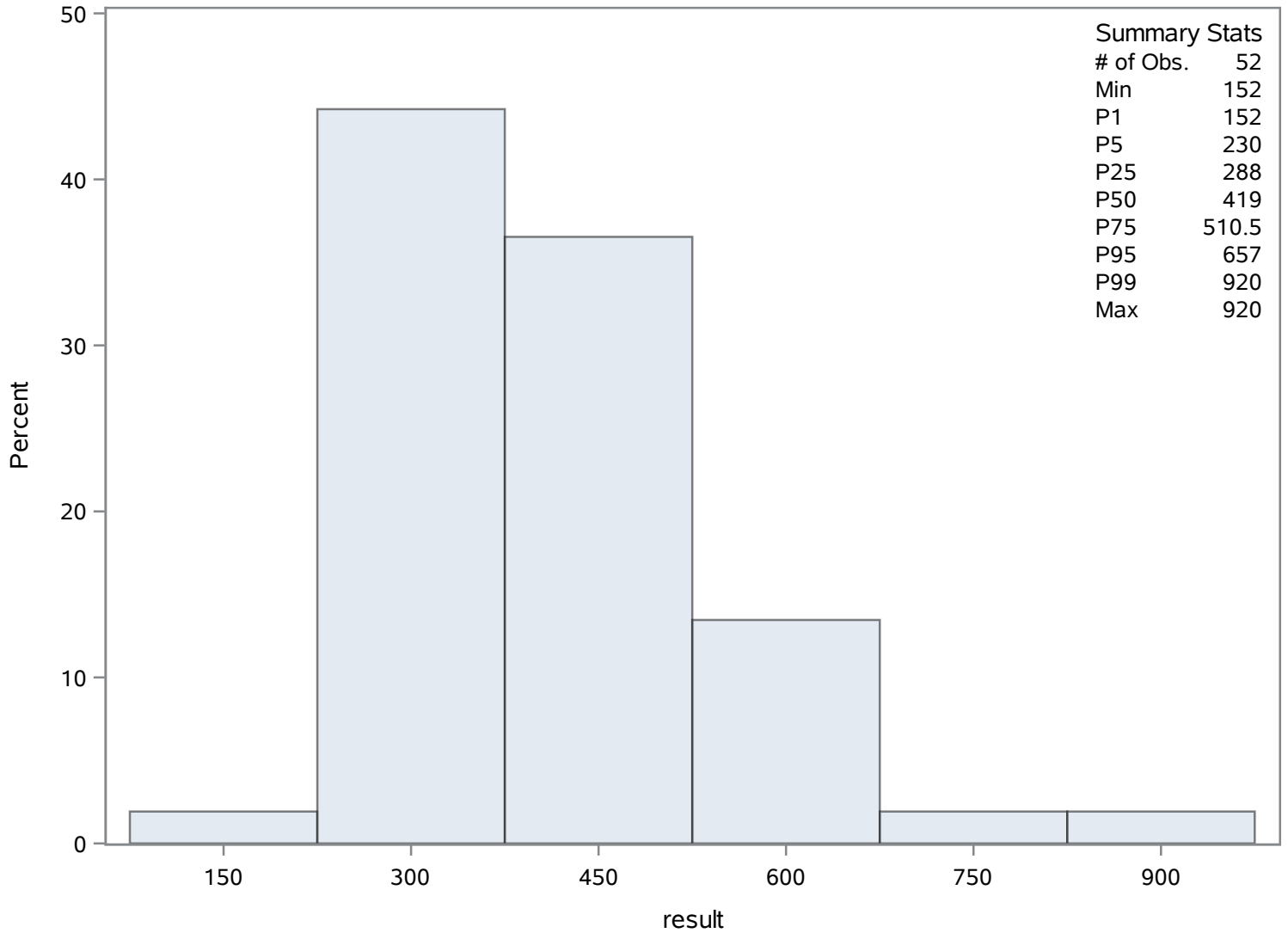
Source: Springs Data

Blue Run Spring

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	23.0259459	Sum Observations	851.96
Std Deviation	1.6687478	Variance	2.78471922
Skewness	1.39288399	Kurtosis	7.63952379
Uncorrected SS	19717.4348	Corrected SS	100.249892
Coeff Variation	7.24724971	Std Error Mean	0.27434045

Basic Statistical Measures			
Location		Variability	
Mean	23.02595	Std Deviation	1.66875
Median	23.10000	Variance	2.78472
Mode	23.10000	Range	11.09000
		Interquartile Range	1.10000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	83.93201	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	29.79
99%	29.79
95%	25.80
90%	24.30
75% Q3	23.40
50% Median	23.10
25% Q1	22.30
10%	21.11
5%	21.00
1%	18.70
0% Min	18.70

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Temperature (Total) Deg. C

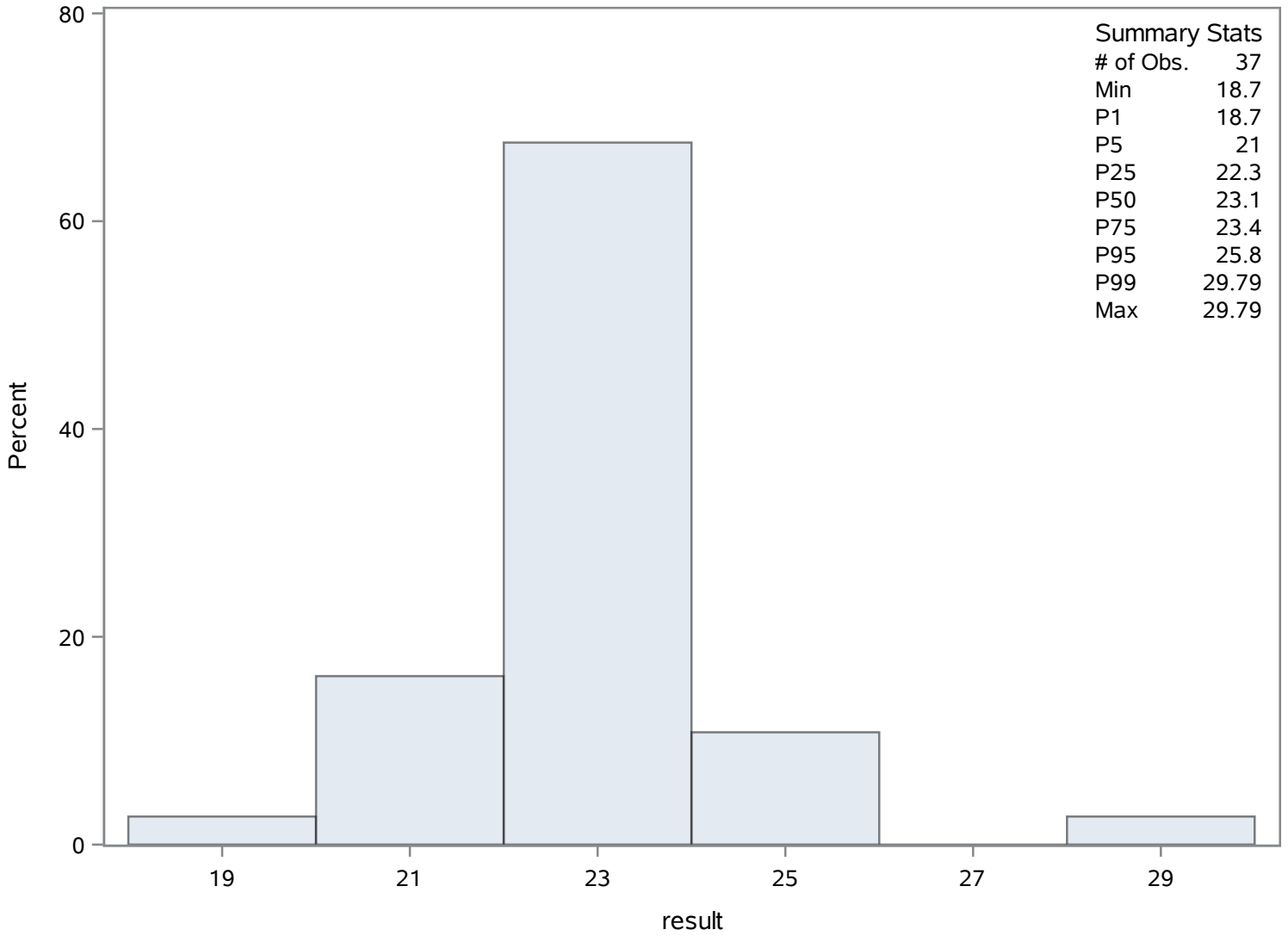
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.70	832	24.00	829
21.00	826	24.30	828
21.02	834	24.40	816
21.11	836	25.80	824
21.30	814	29.79	839

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Blue Run Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	52	Sum Weights	52
Mean	2.30125	Sum Observations	119.665
Std Deviation	3.52255434	Variance	12.4083891
Skewness	3.34624104	Kurtosis	11.4324289
Uncorrected SS	908.206925	Corrected SS	632.827844
Coeff Variation	153.071346	Std Error Mean	0.4884904

Basic Statistical Measures			
Location		Variability	
Mean	2.301250	Std Deviation	3.52255
Median	1.400000	Variance	12.40839
Mode	0.400000	Range	18.15000
		Interquartile Range	1.74500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.710942	Pr > t 	<.0001
Sign	M	26	Pr >= M 	<.0001
Signed Rank	S	689	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.200
99%	18.200
95%	14.000
90%	3.300
75% Q3	2.295
50% Median	1.400
25% Q1	0.550
10%	0.200
5%	0.080
1%	0.050
0% Min	0.050

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Turbidity (Total) NTU

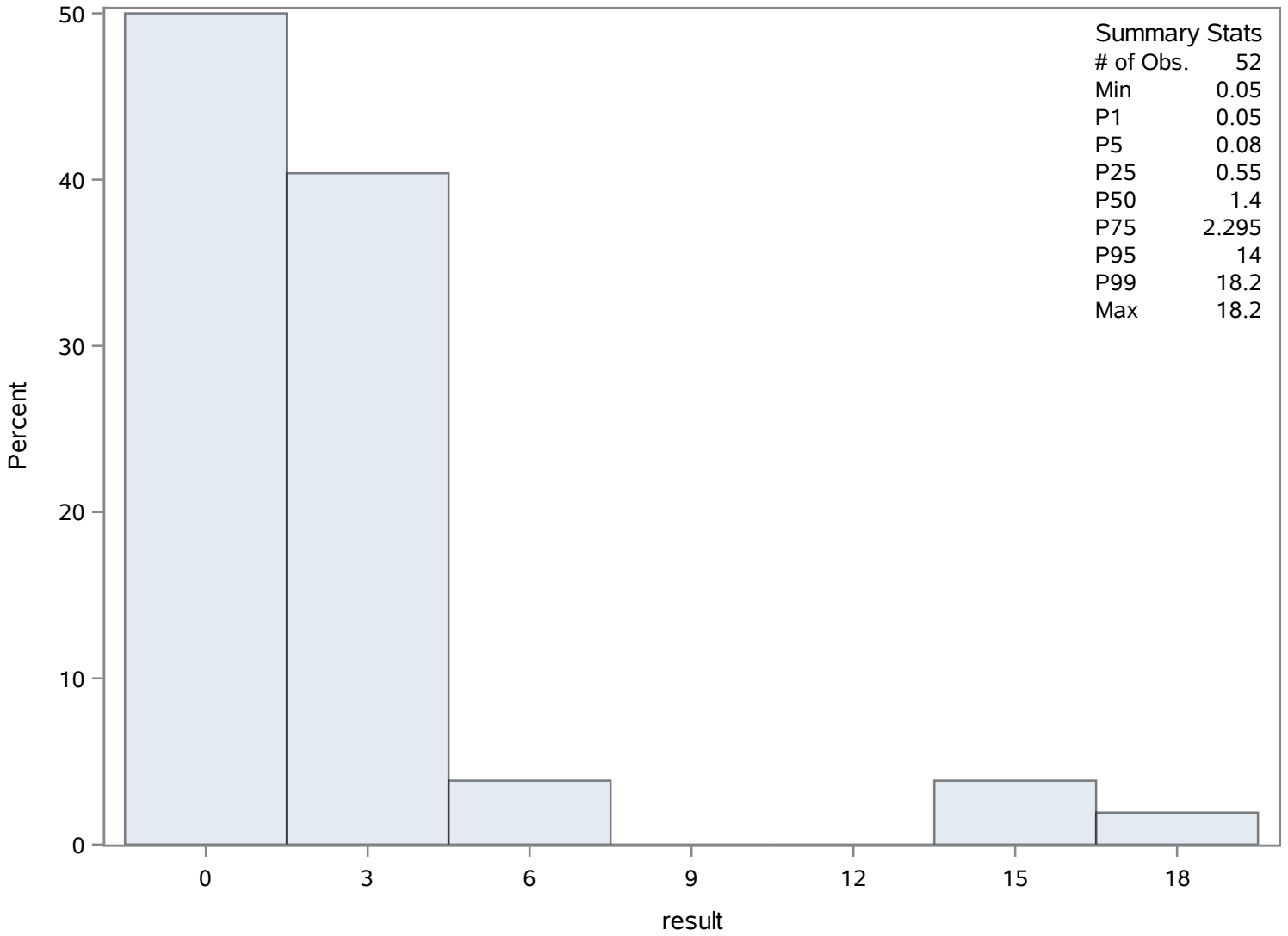
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	868	4.58	898
0.050	865	6.69	889
0.080	869	14.00	870
0.115	888	14.00	871
0.130	890	18.20	896

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Blue Run Spring

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	7.26277778	Sum Observations	261.46
Std Deviation	0.11690316	Variance	0.01366635
Skewness	0.09750286	Kurtosis	-0.2454918
Uncorrected SS	1899.4042	Corrected SS	0.47832222
Coeff Variation	1.60962052	Std Error Mean	0.01948386

Basic Statistical Measures			
Location		Variability	
Mean	7.262778	Std Deviation	0.11690
Median	7.275000	Variance	0.01367
Mode	7.280000	Range	0.49000
		Interquartile Range	0.17500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	372.7587	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.520
99%	7.520
95%	7.510
90%	7.380
75% Q3	7.340
50% Median	7.275
25% Q1	7.165
10%	7.100
5%	7.080
1%	7.030
0% Min	7.030

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
pH (Total) SU

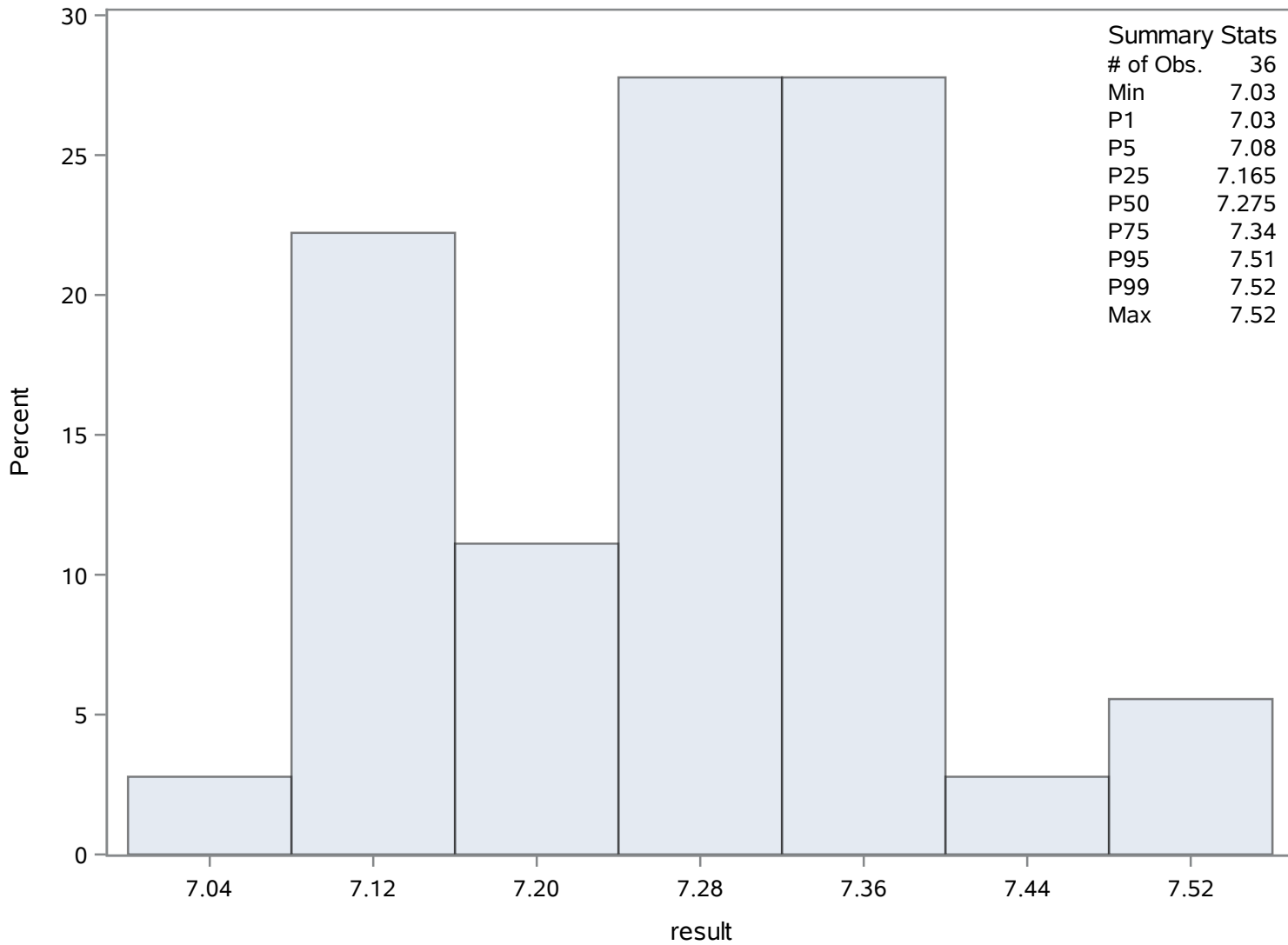
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.03	926	7.38	912
7.08	928	7.38	919
7.09	935	7.43	921
7.10	925	7.51	920
7.12	934	7.52	927

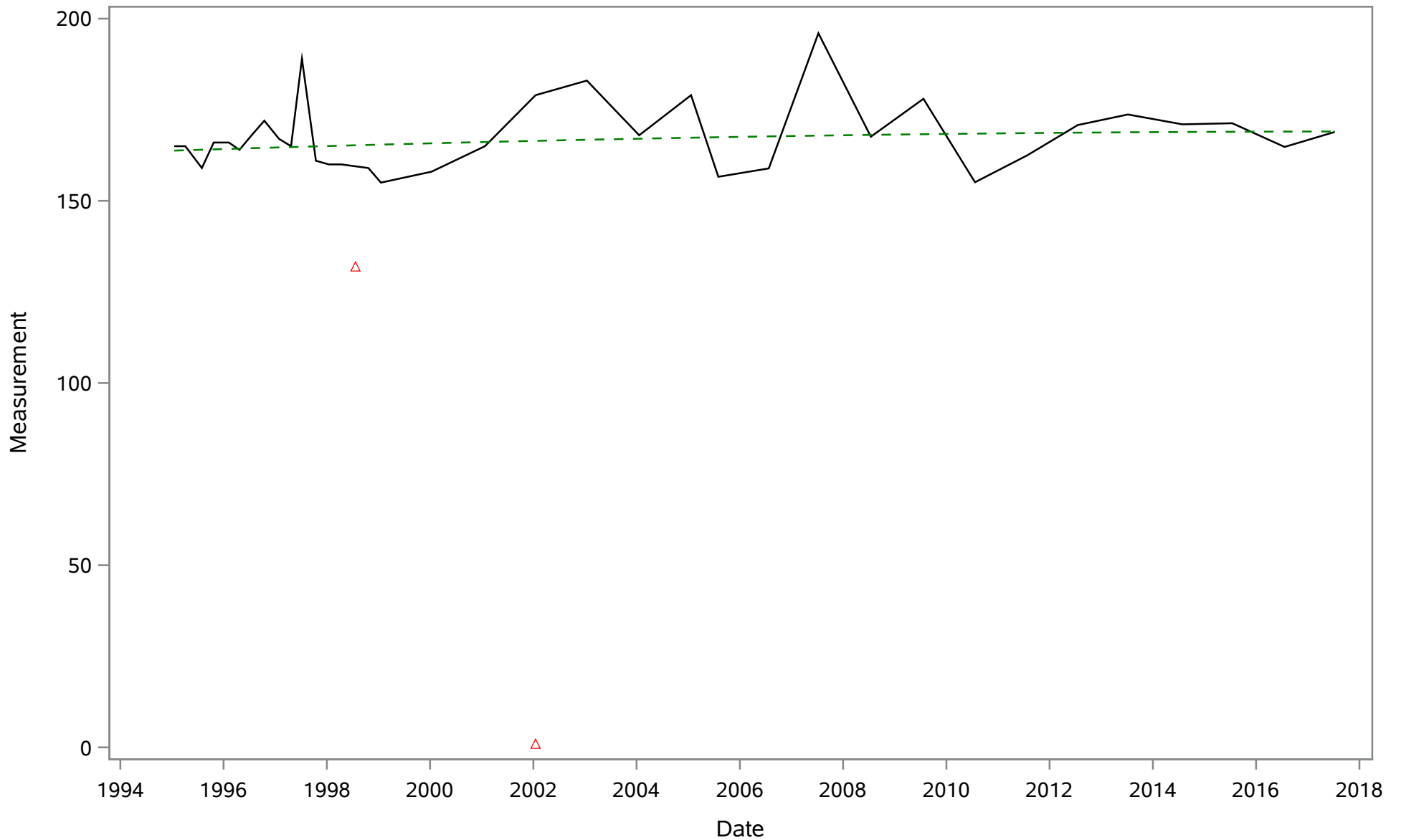
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

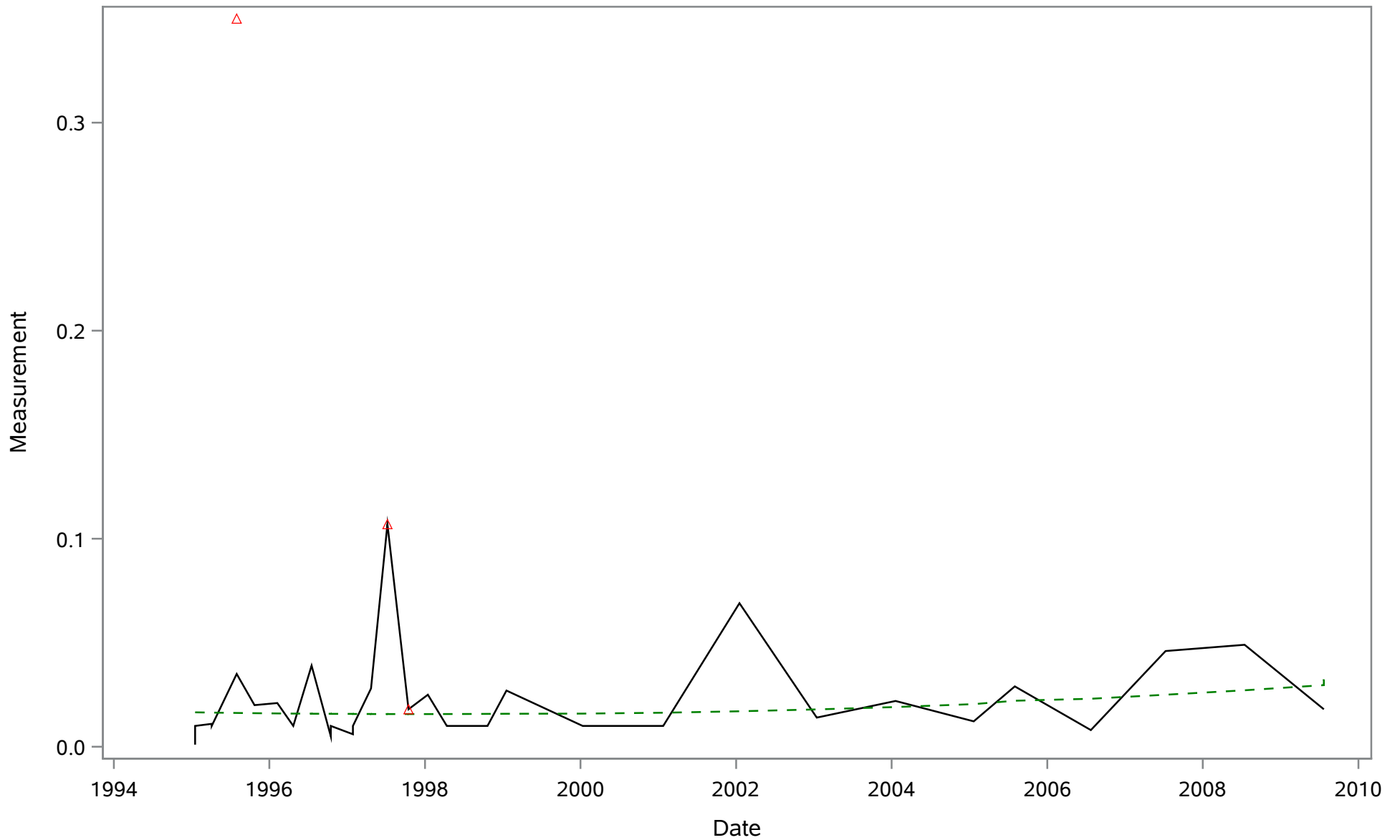


Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Alkalinity (Total) mg/L



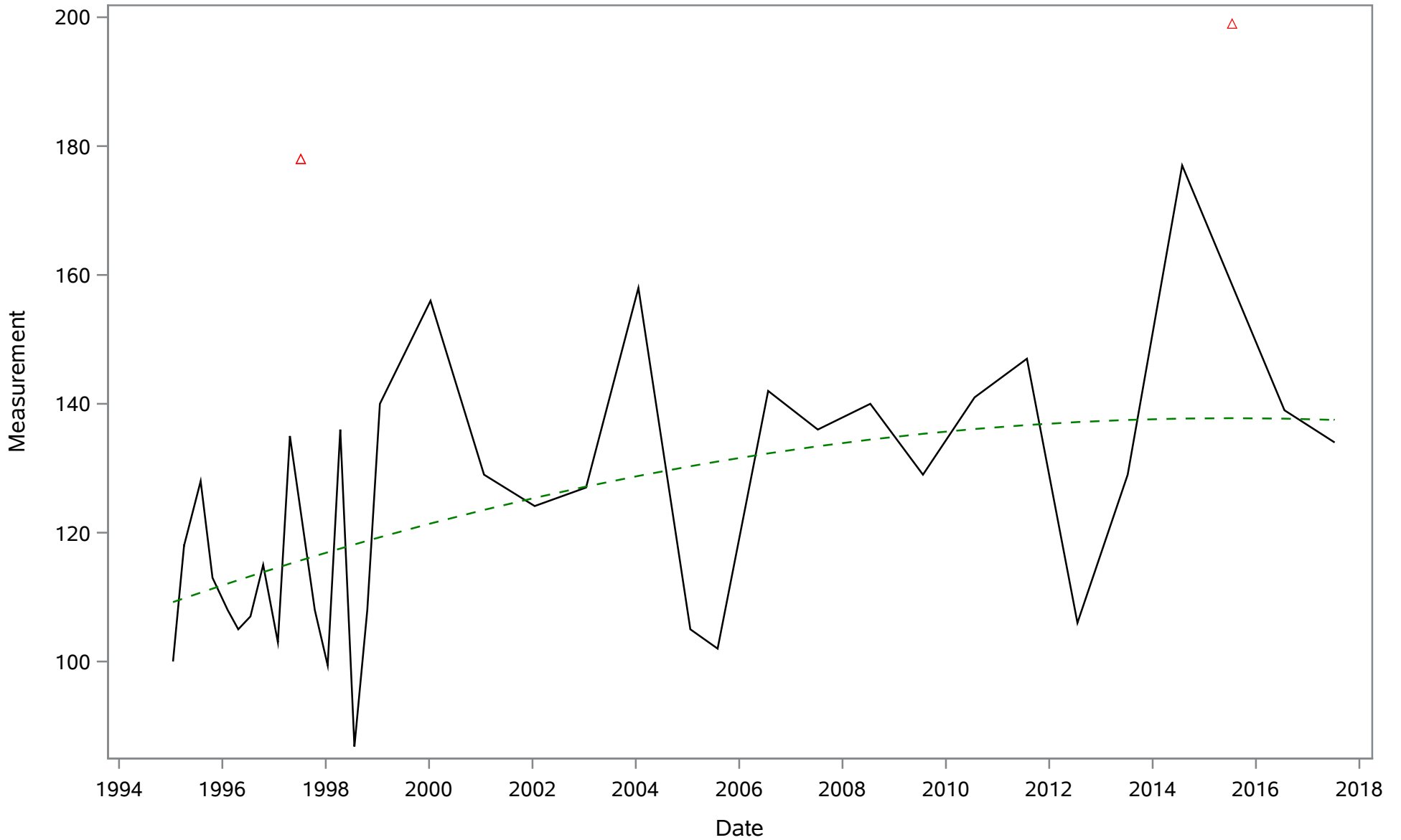
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Ammonia (N) (Dissolved) mg/L



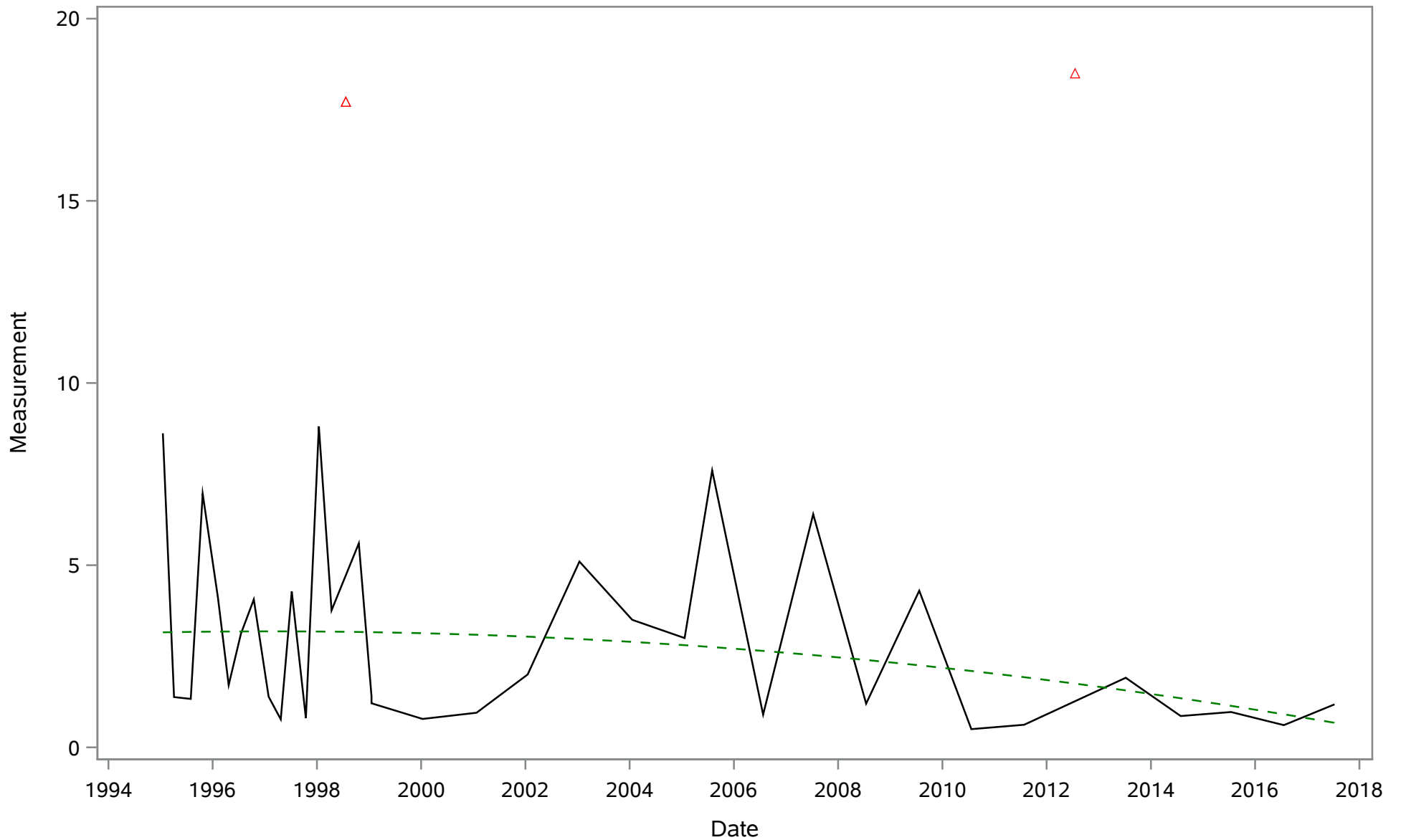
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Calcium (Dissolved) mg/L



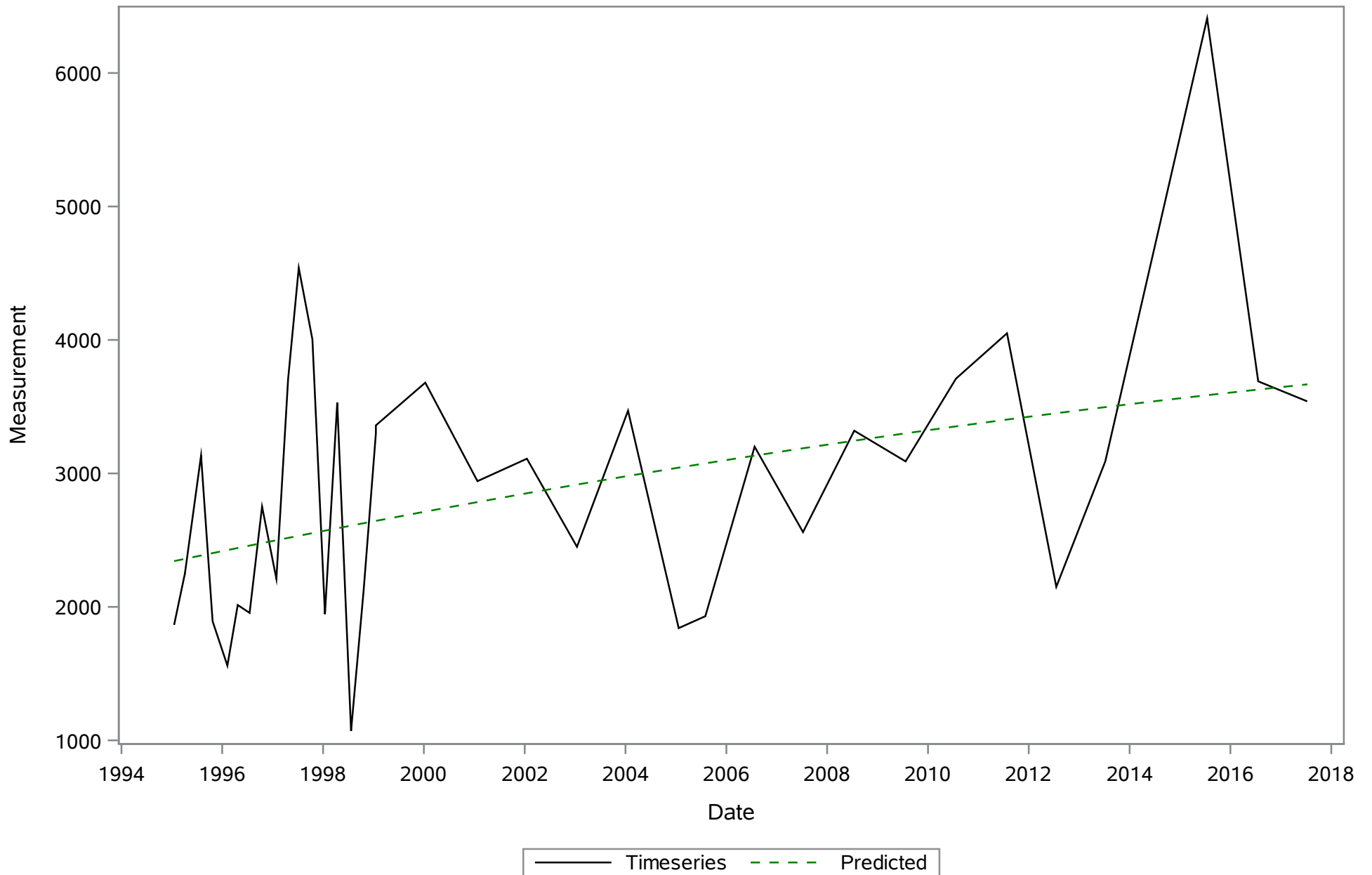
— Timeseries ▲ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Carbon- Total Organic (Total) mg/L

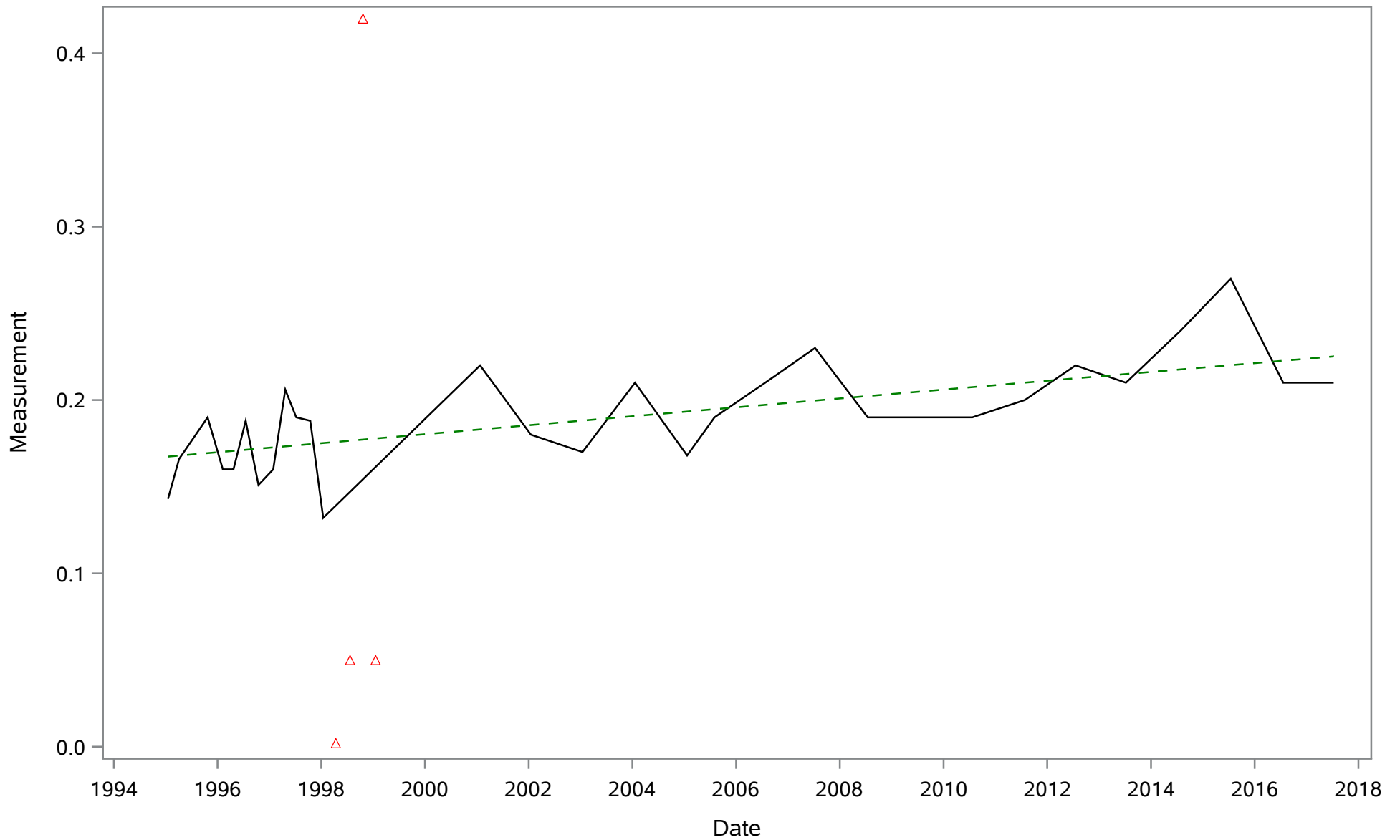


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Chloride (Dissolved) mg/L

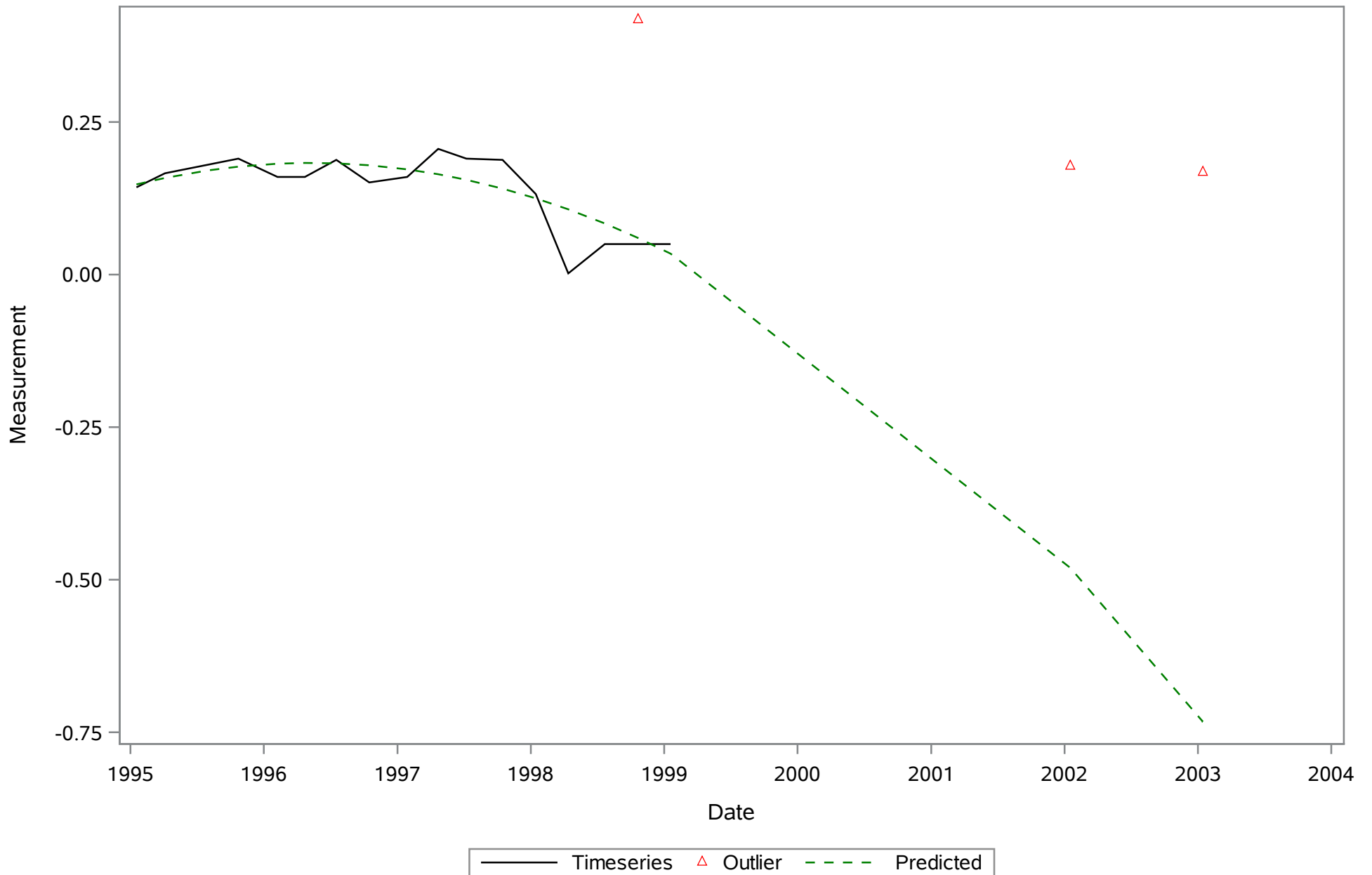


Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Dissolved) mg/L

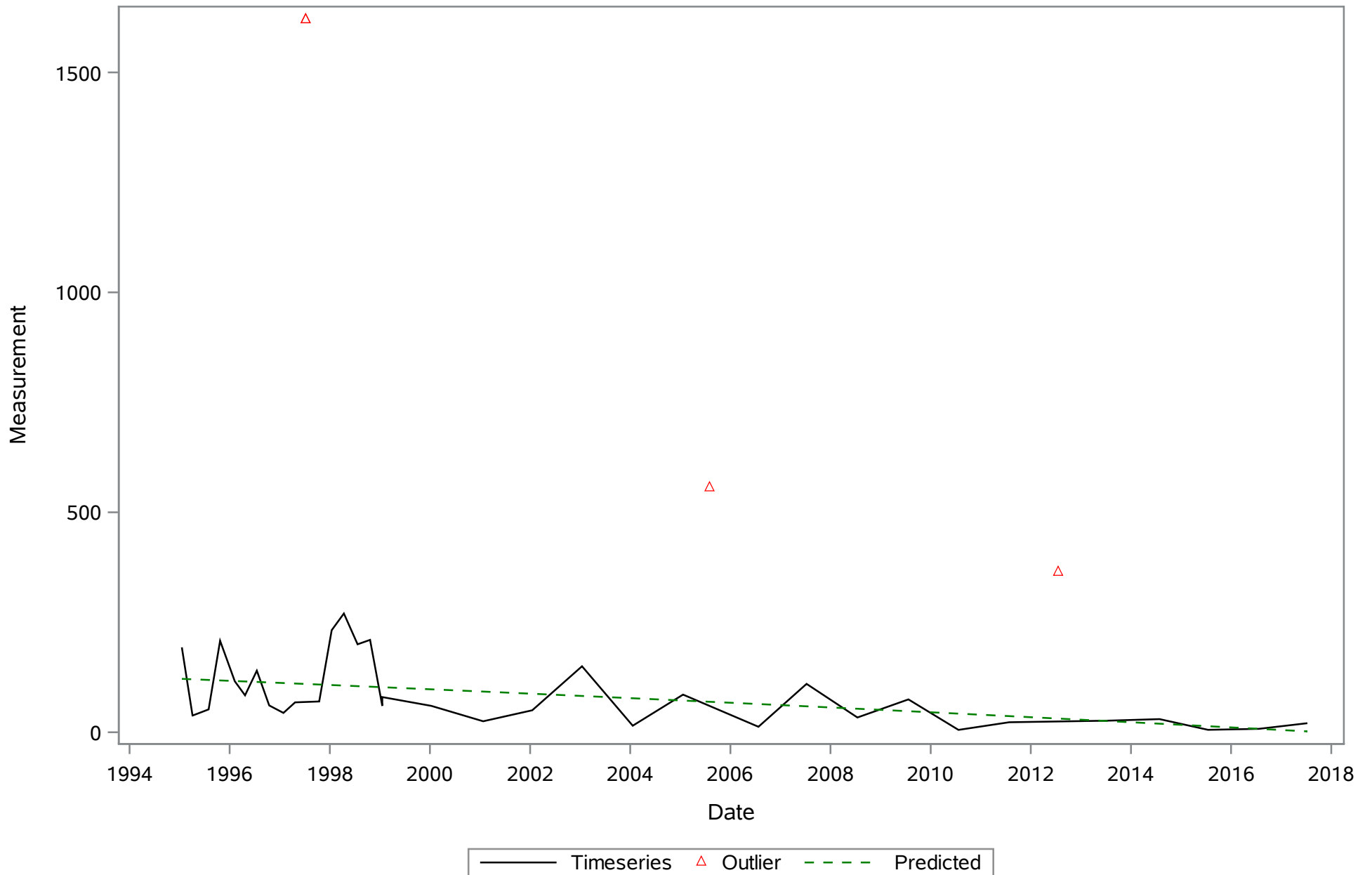


— Timeseries △ Outlier - - - Predicted

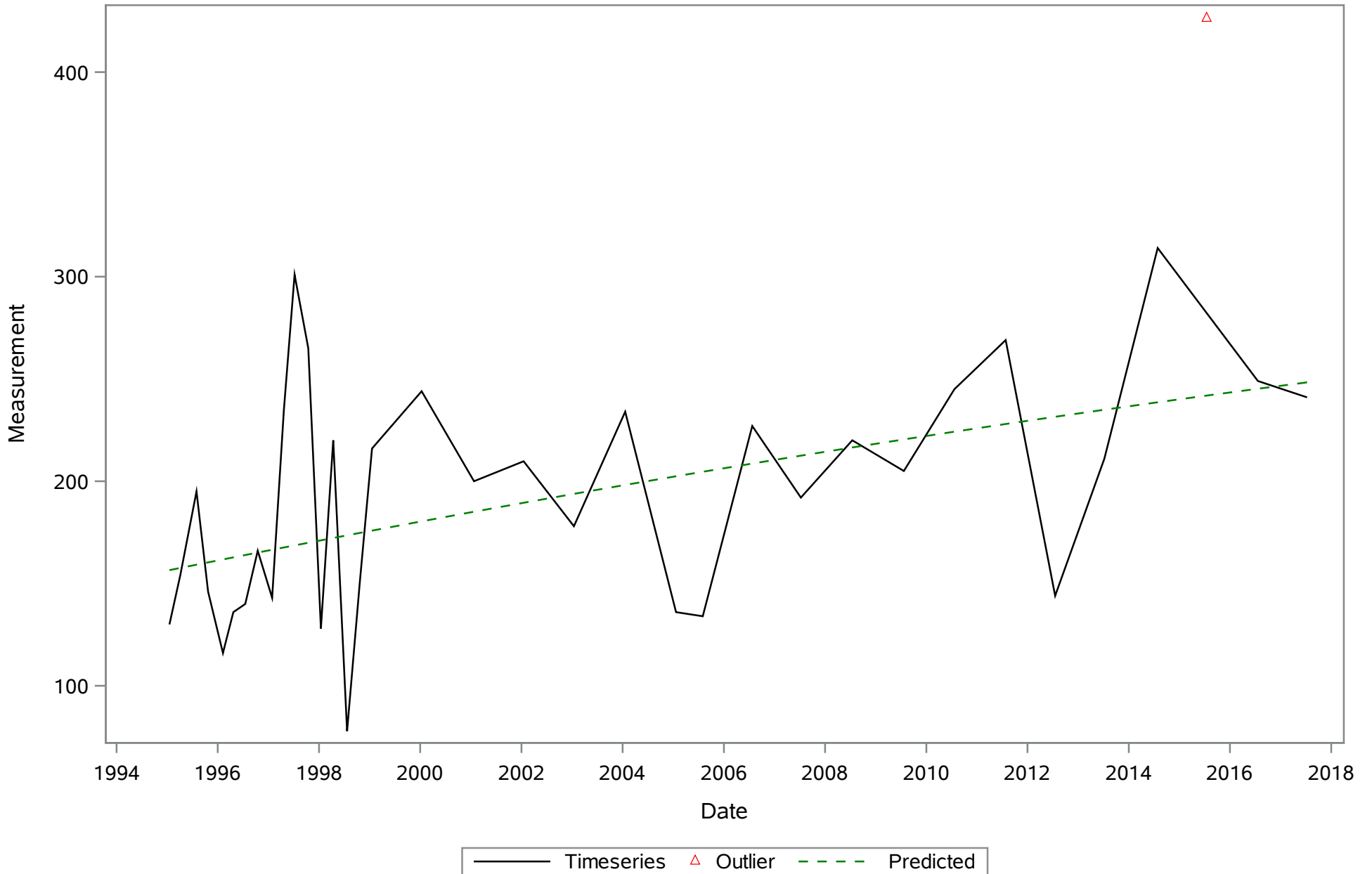
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Total) mg/L



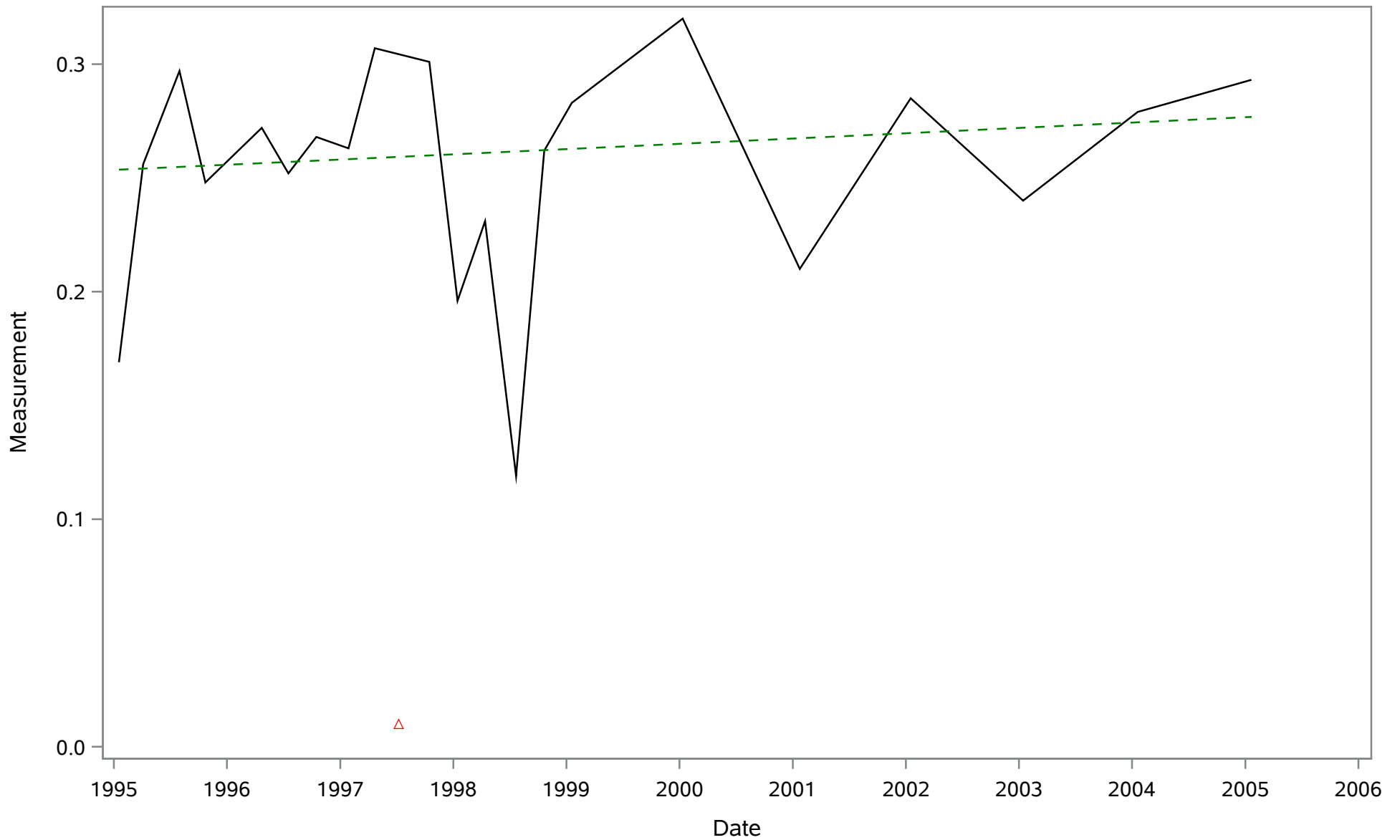
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Iron (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Magnesium (Dissolved) mg/L

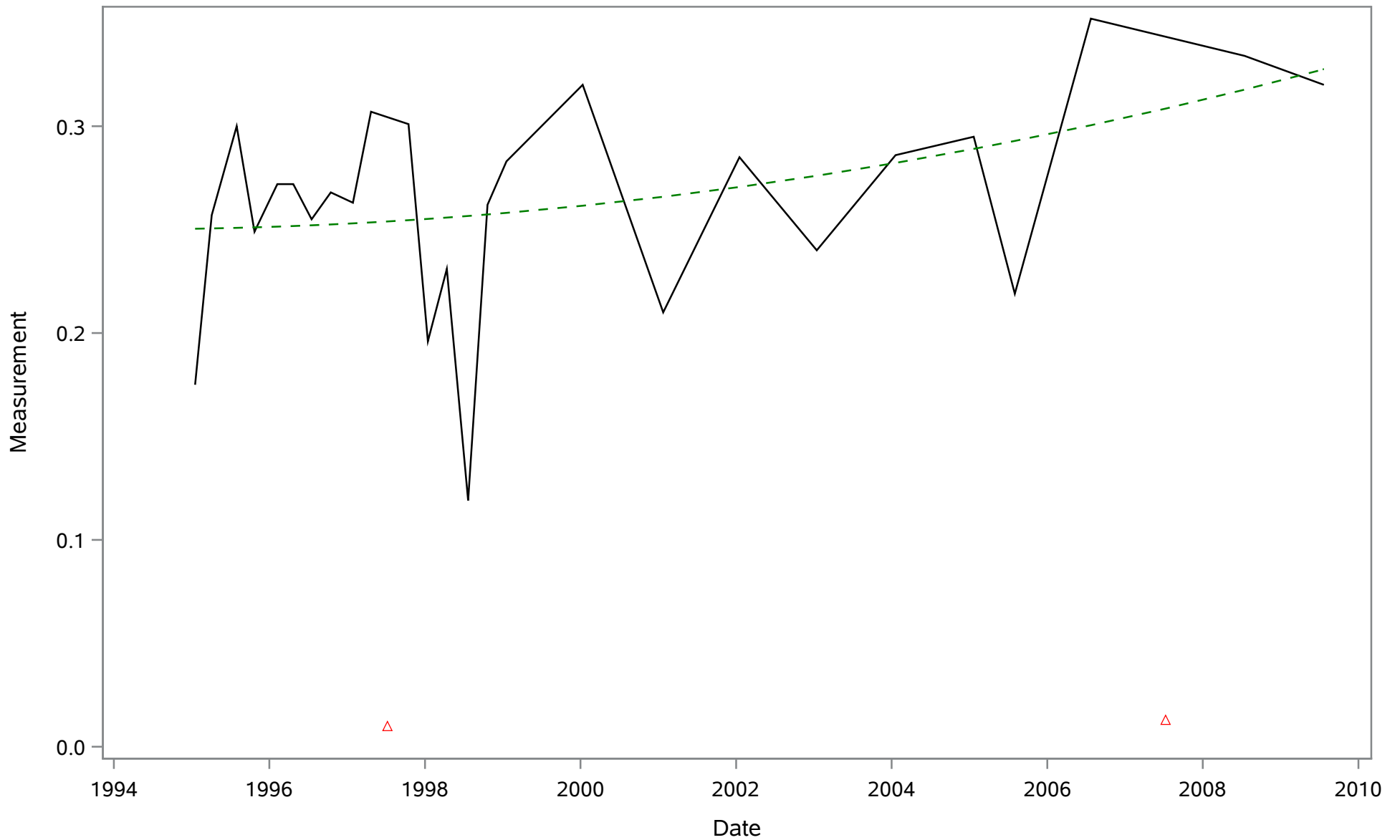


Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate (N) (Dissolved) mg/L



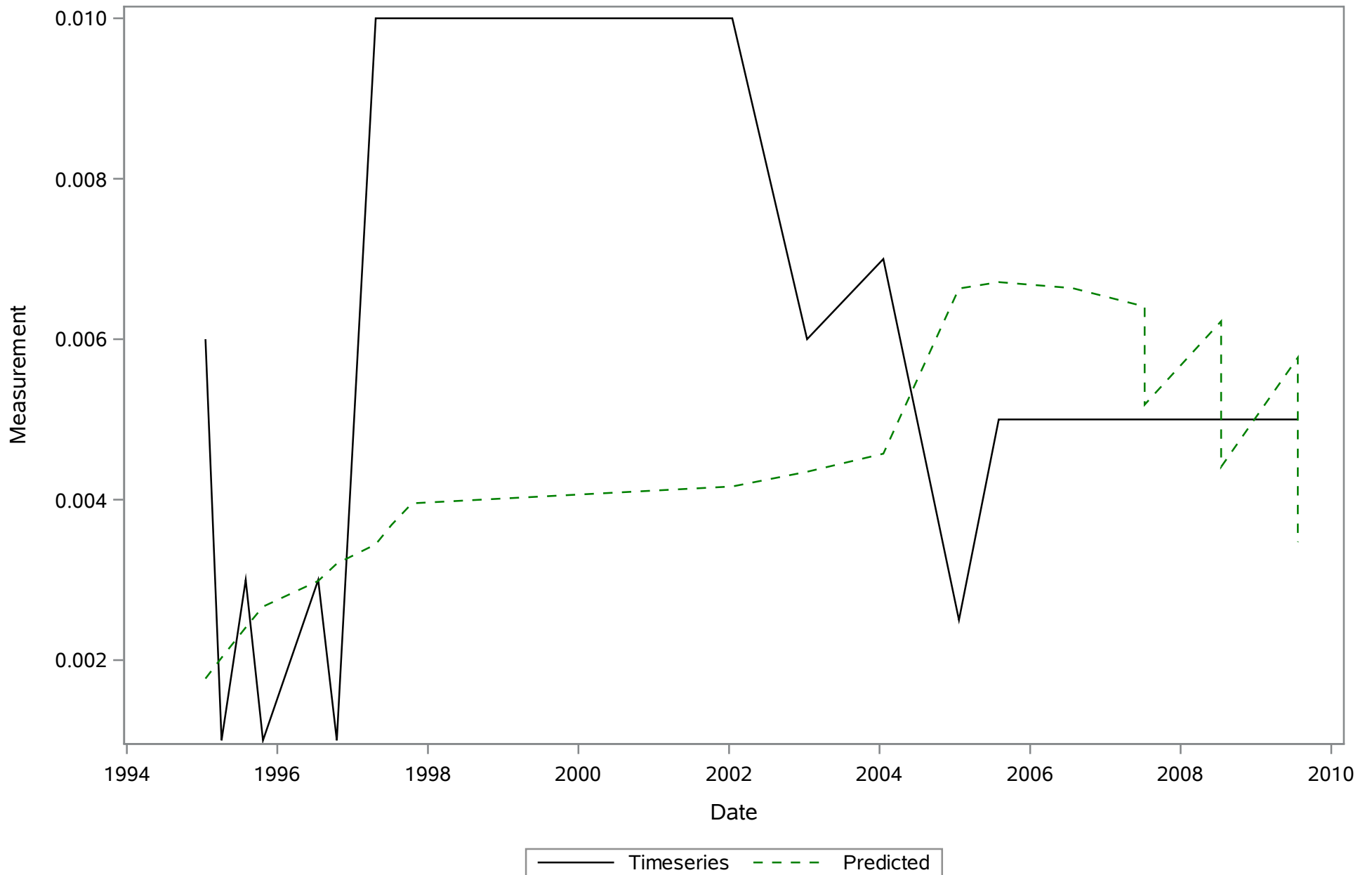
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

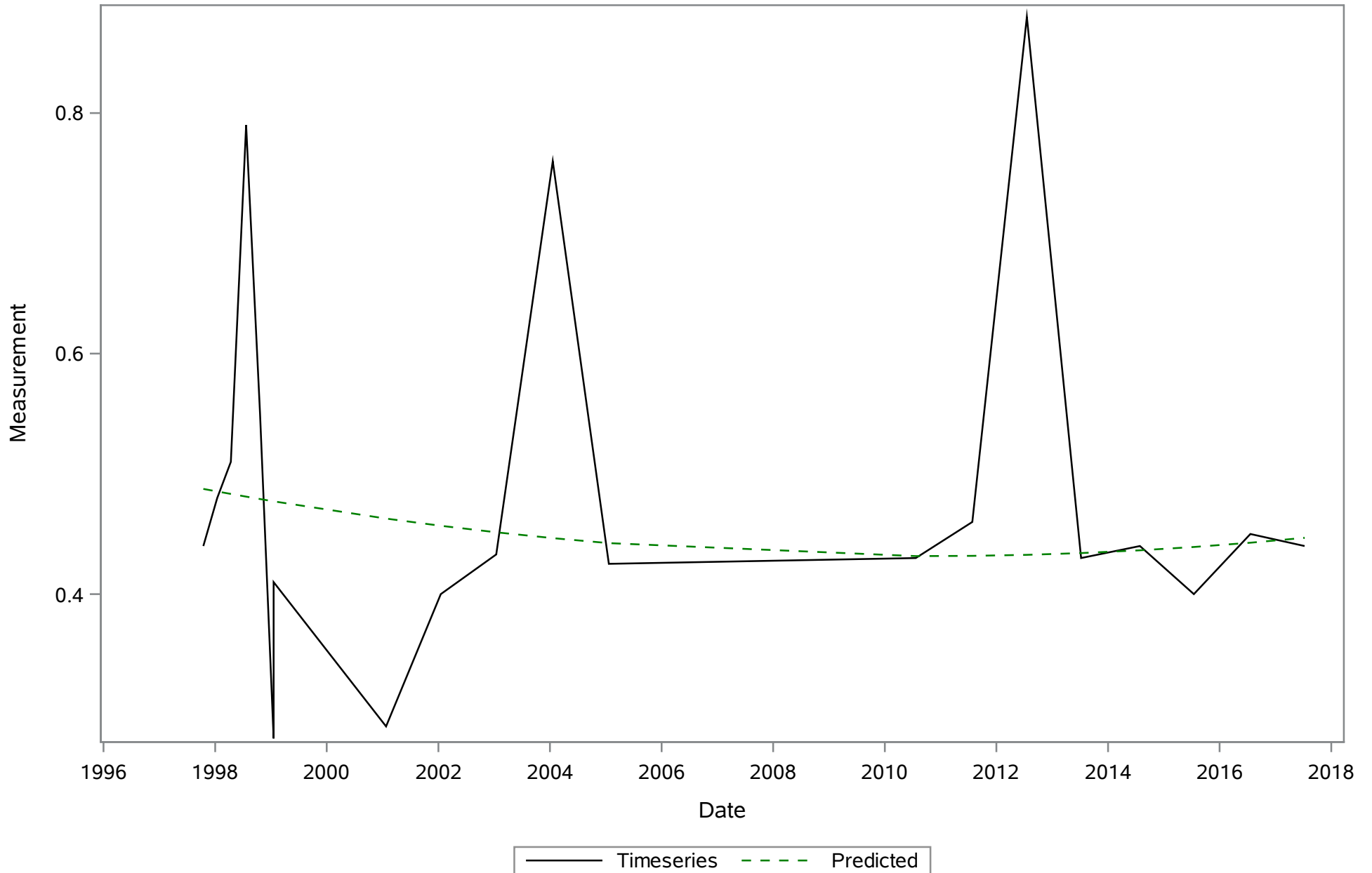


— Timeseries △ Outlier - - - Predicted

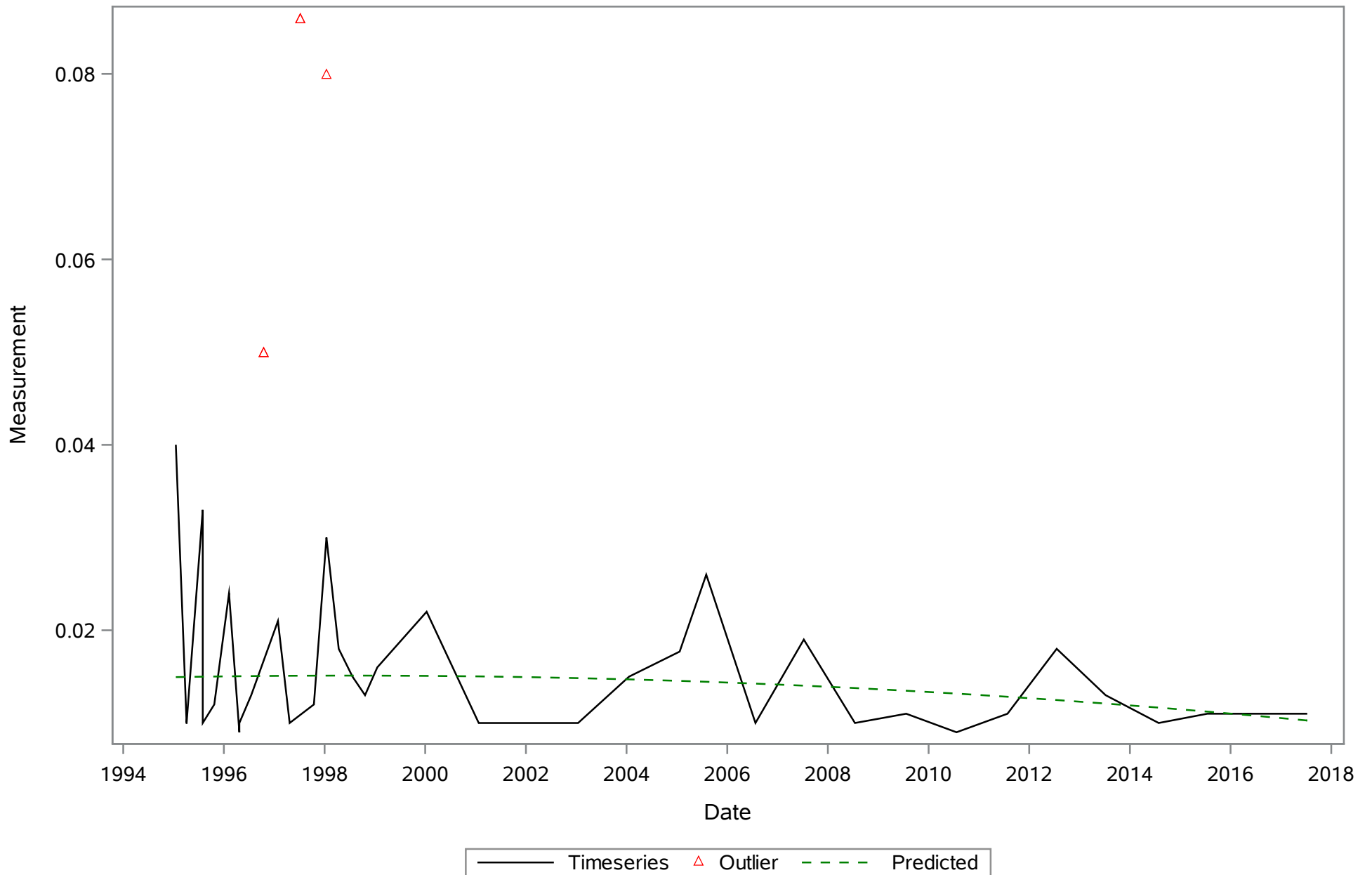
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrite (N) (Dissolved) mg/L



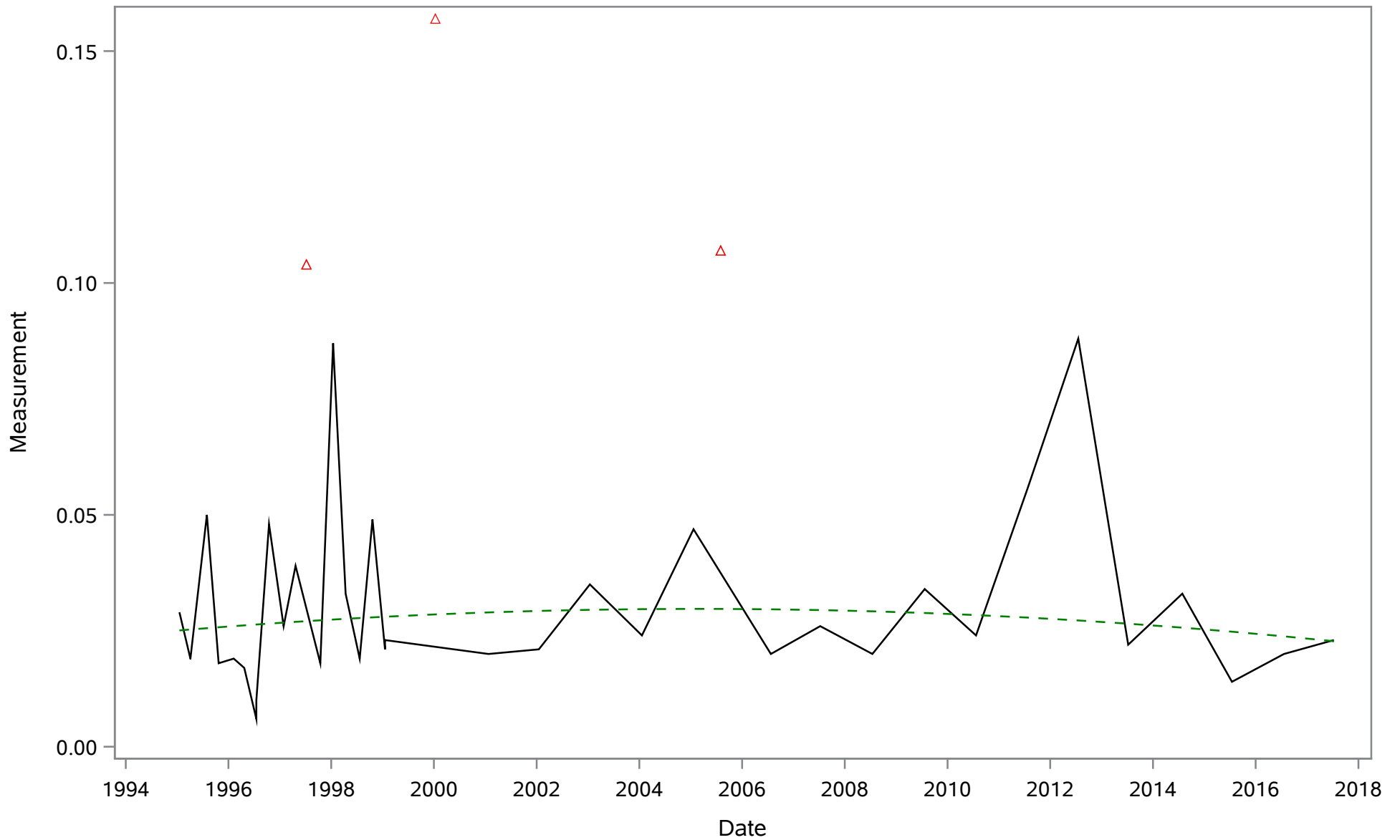
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrogen- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Orthophosphate (P) (Dissolved) mg/L

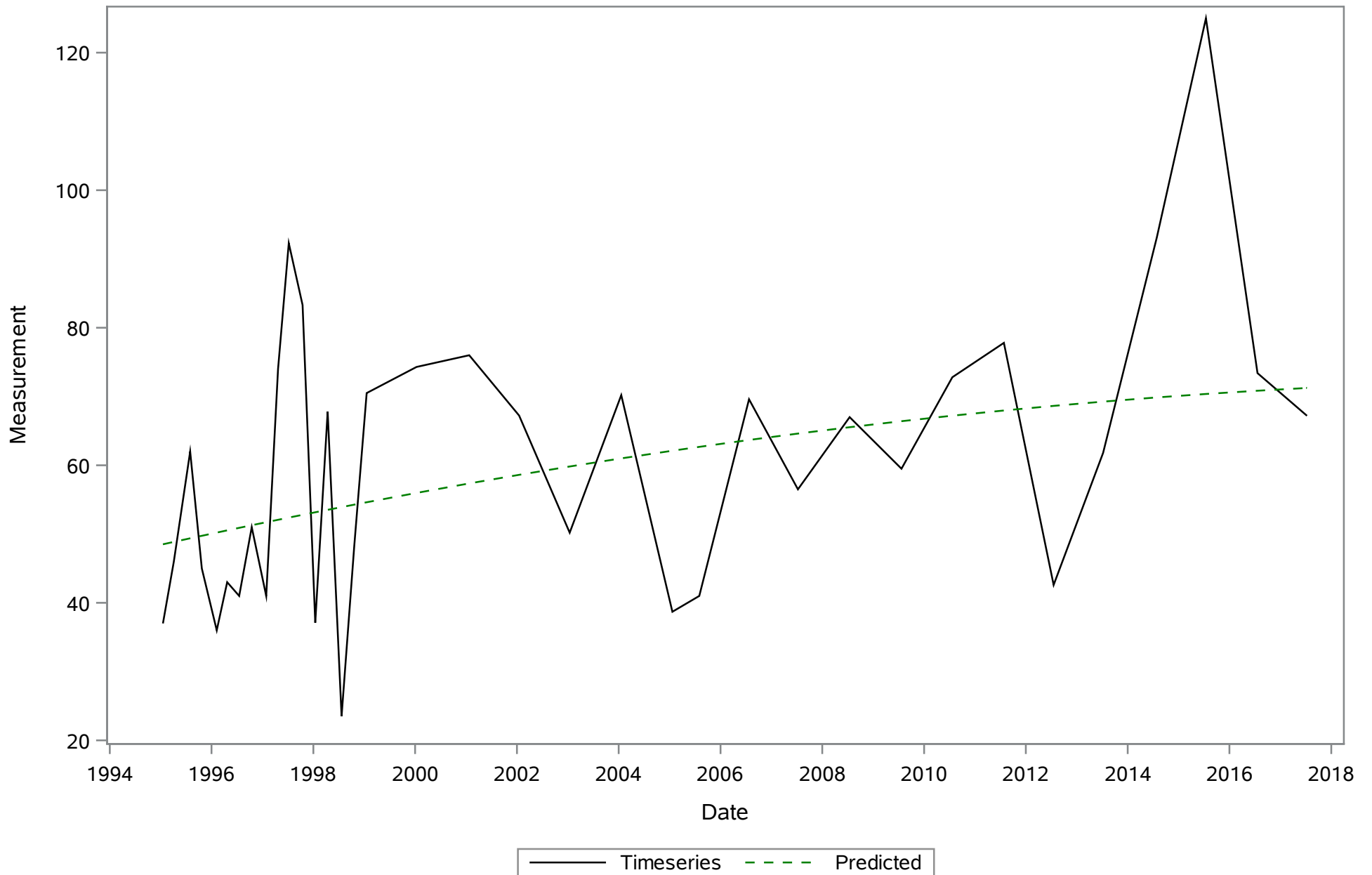


Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Phosphorus- Total (Total) mg/L

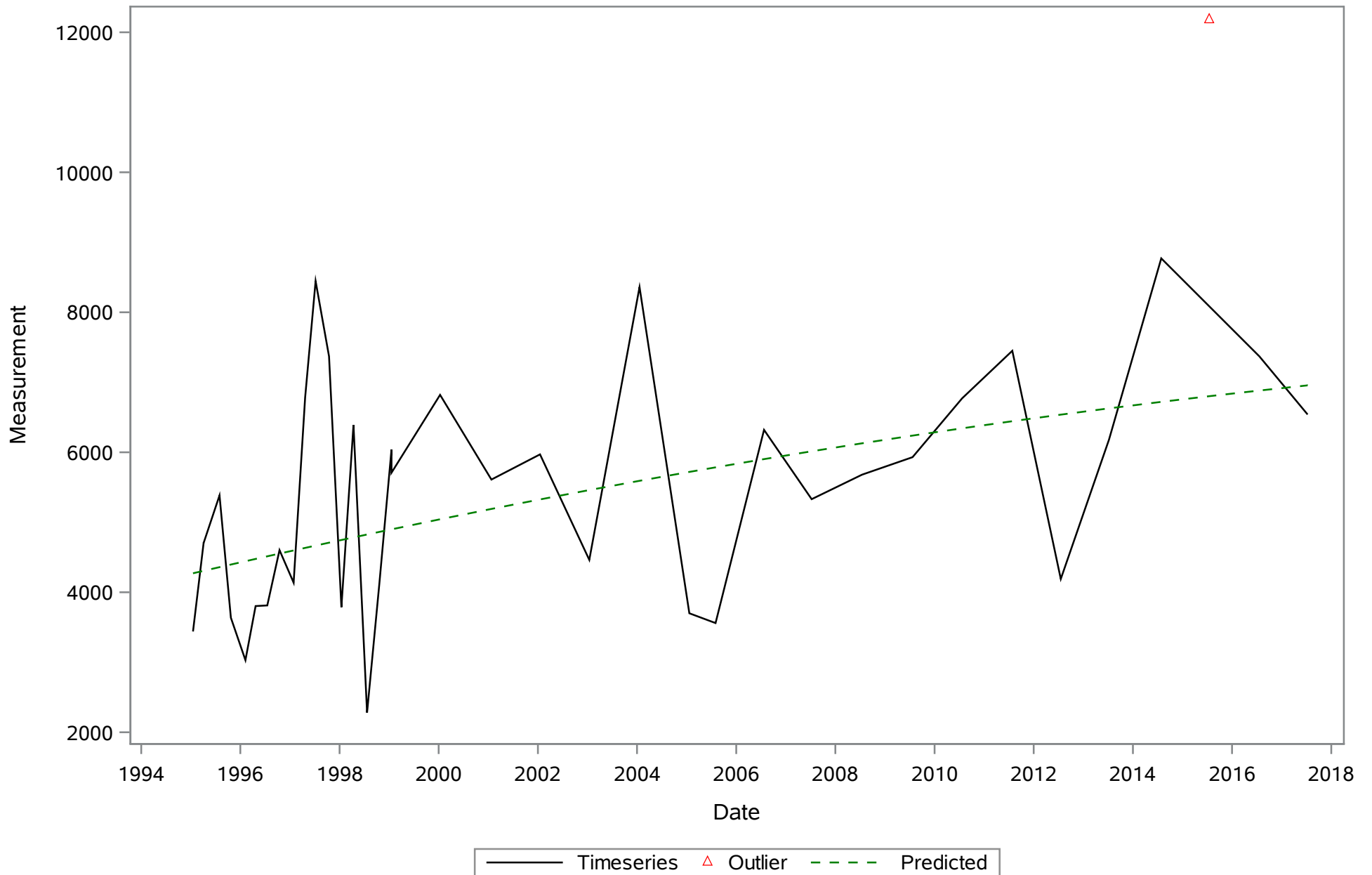


— Timeseries △ Outlier - - - Predicted

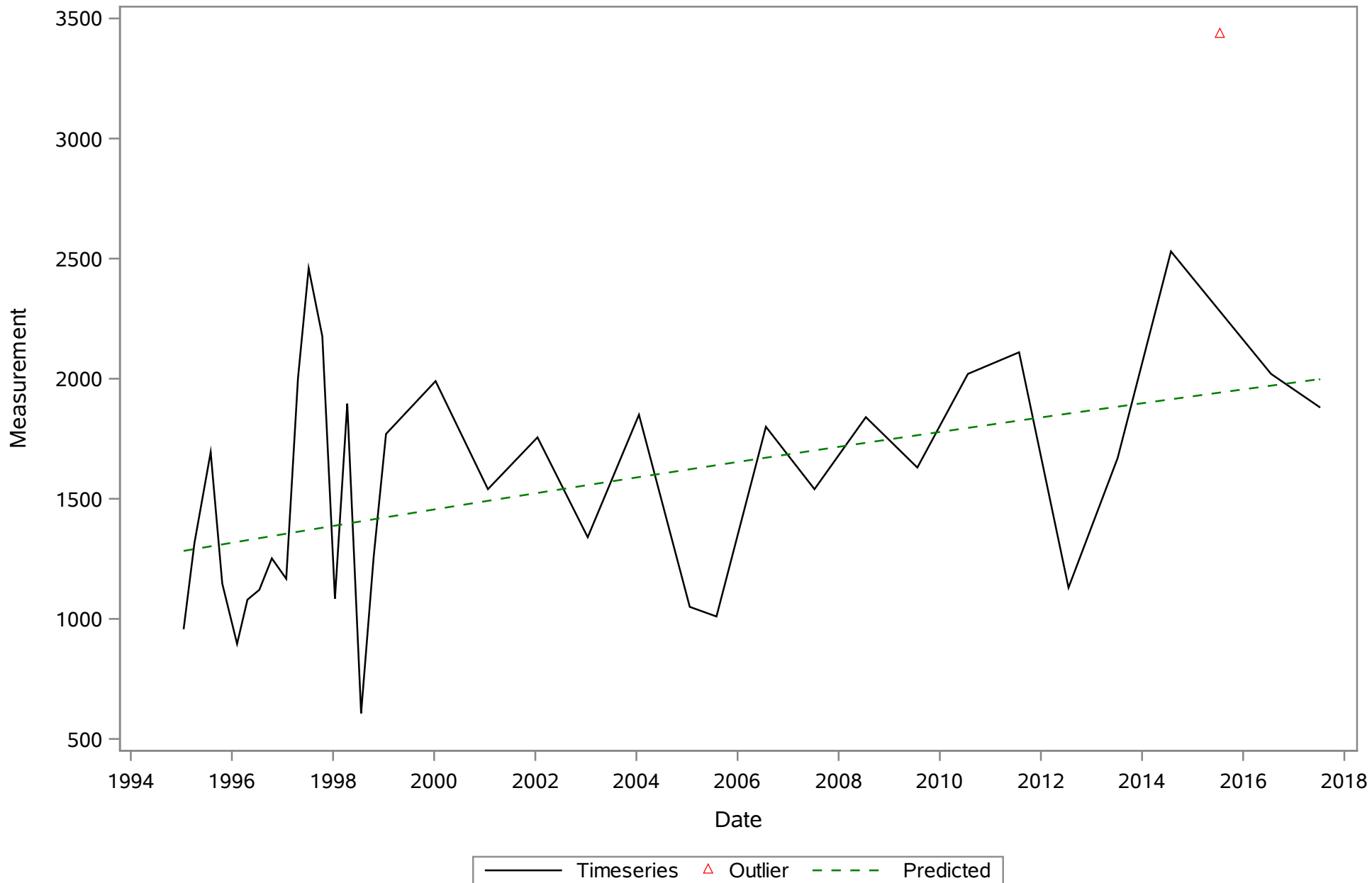
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Potassium (Dissolved) mg/L



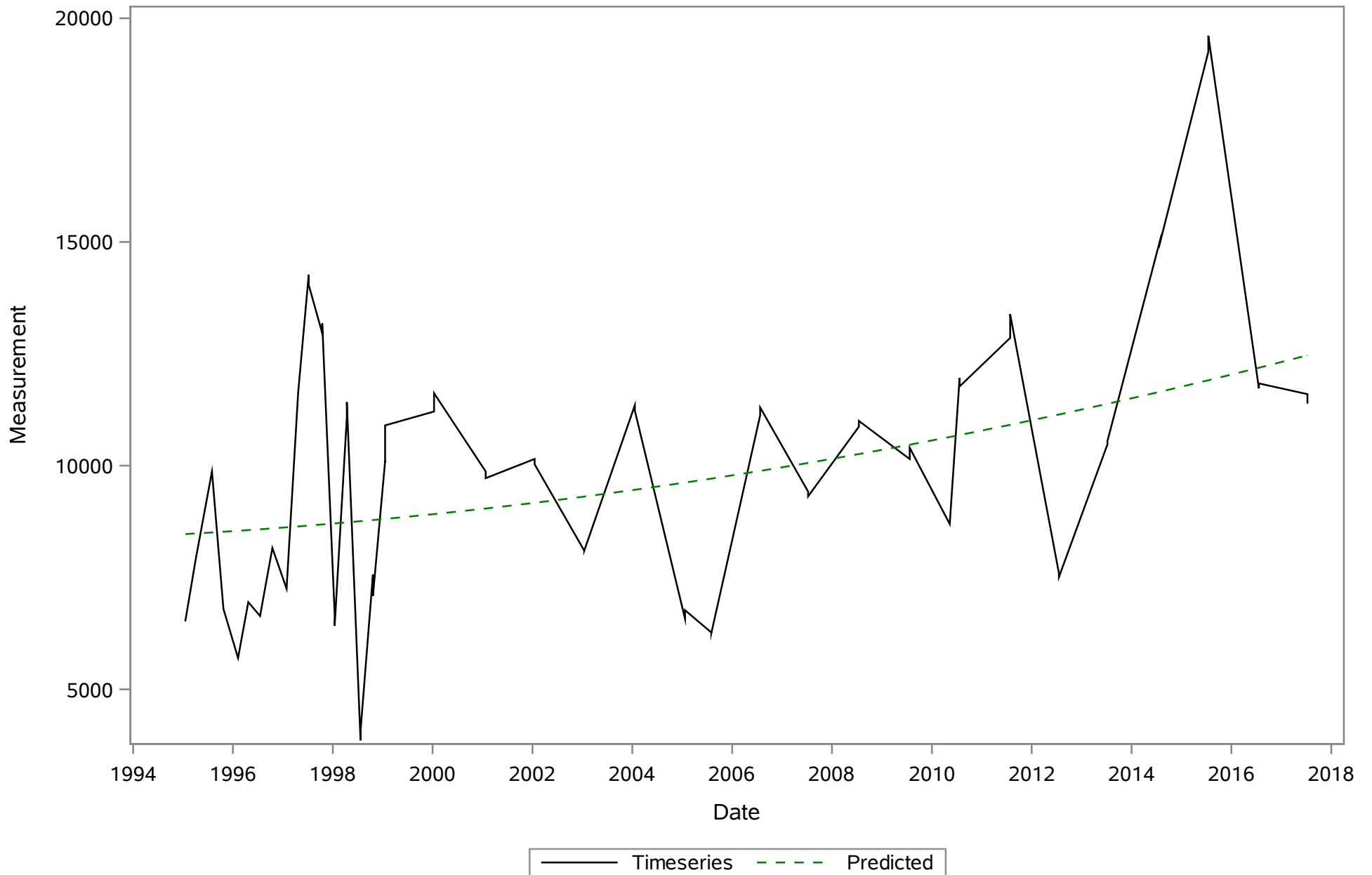
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Residues- Filterable (TDS) (Dissolved) mg/L



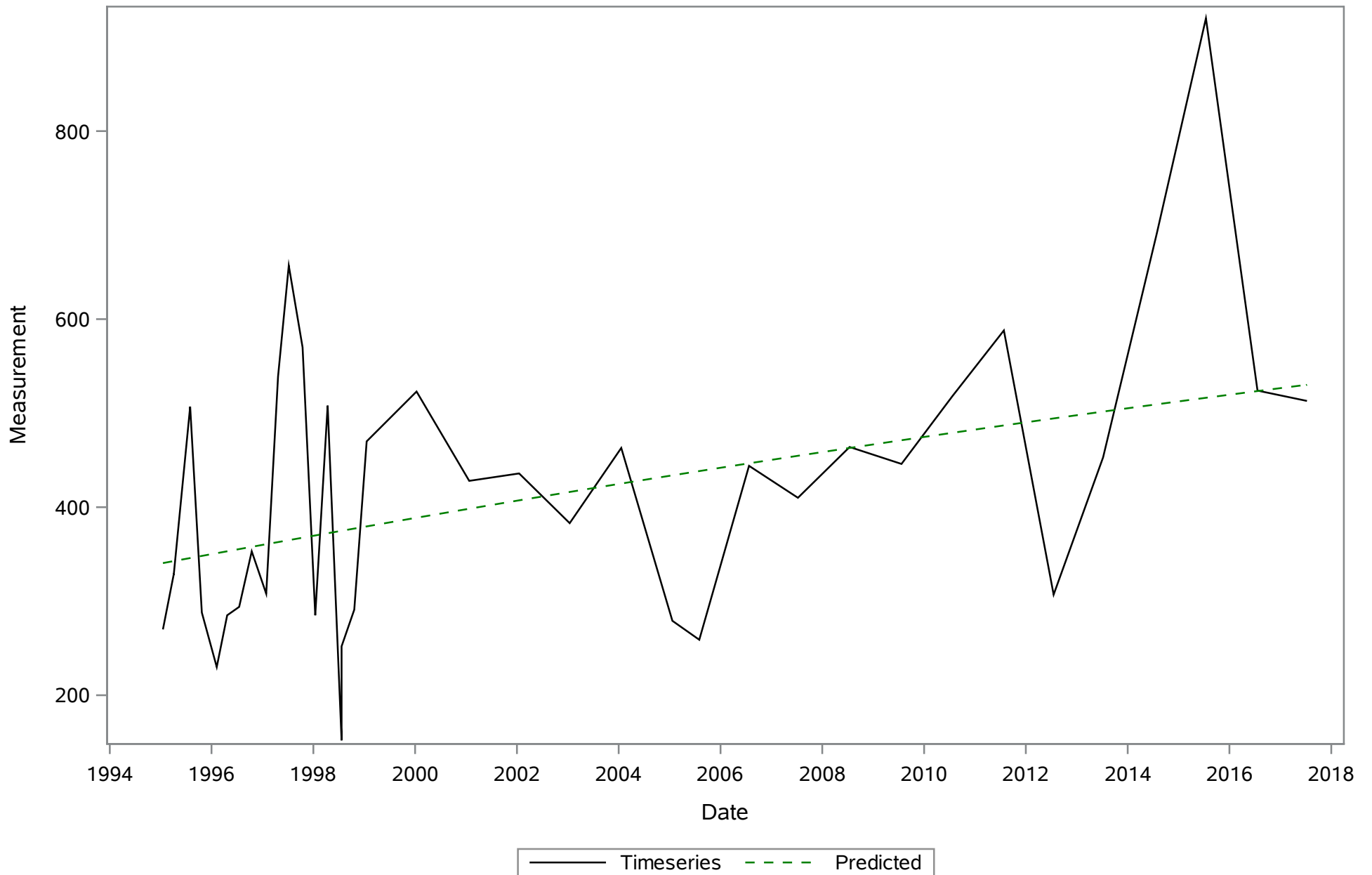
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Sodium (Dissolved) mg/L



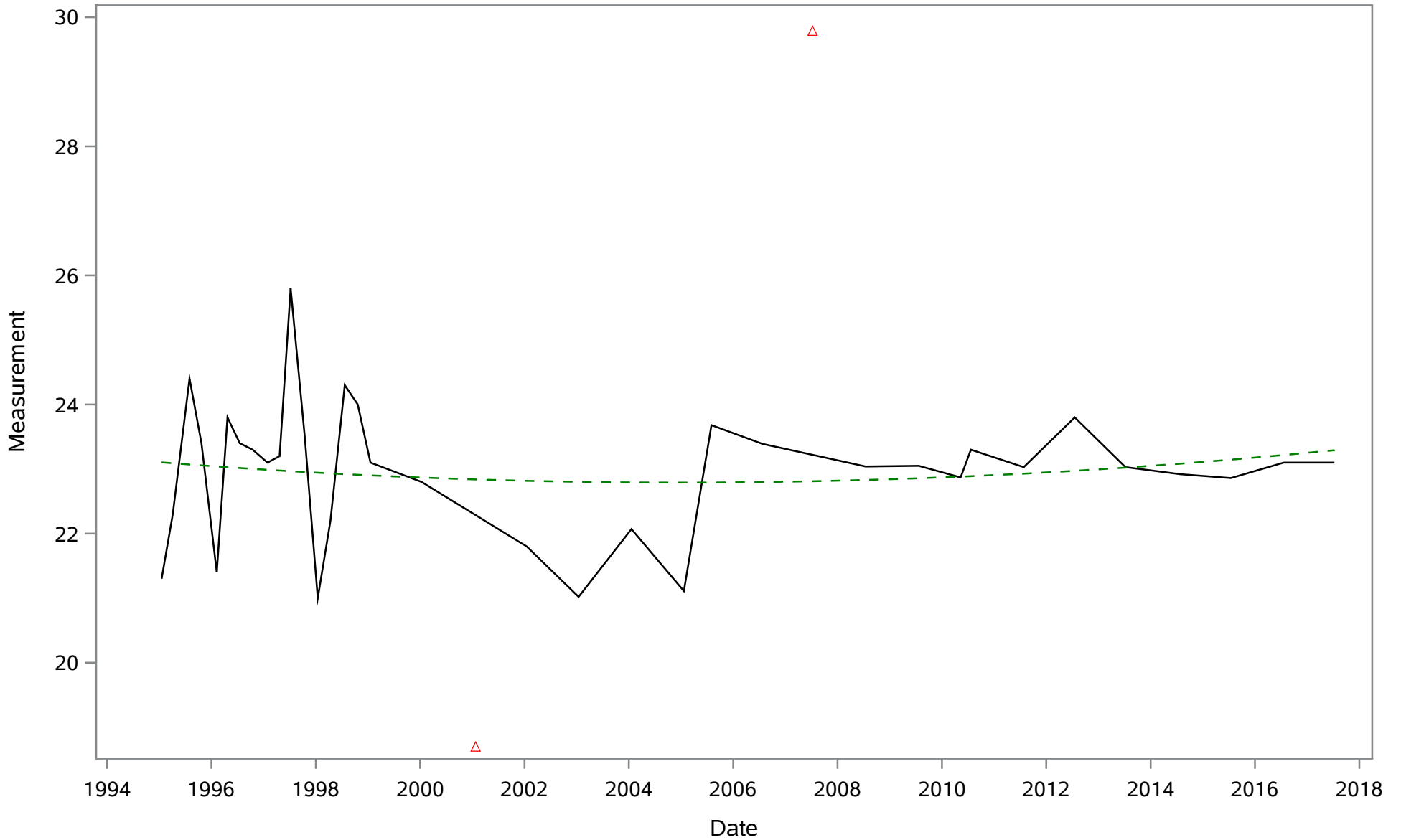
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Specific Conductance (Total) uS/cm



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Sulfate (Dissolved) mg/L

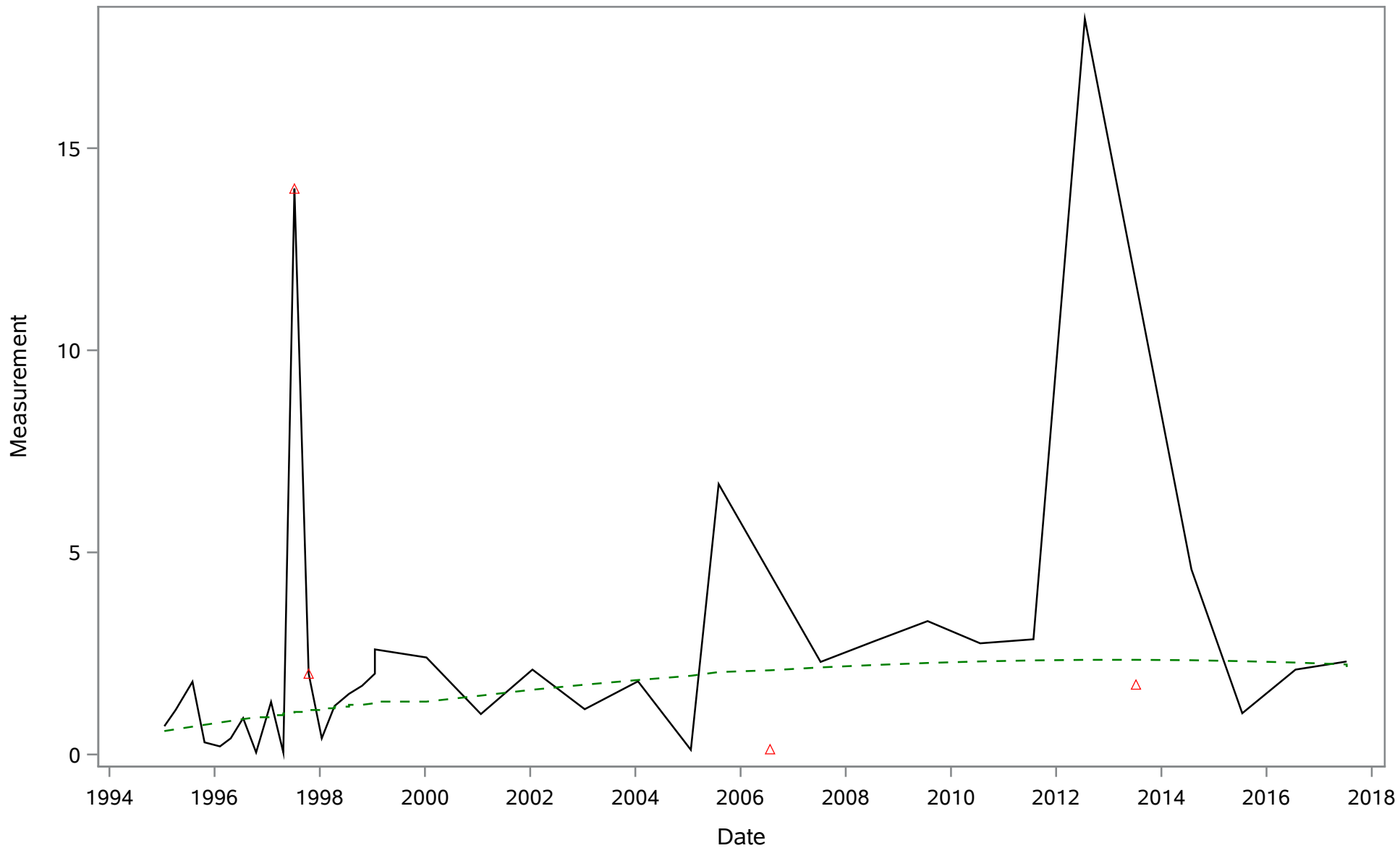


Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Temperature (Total) Deg. C



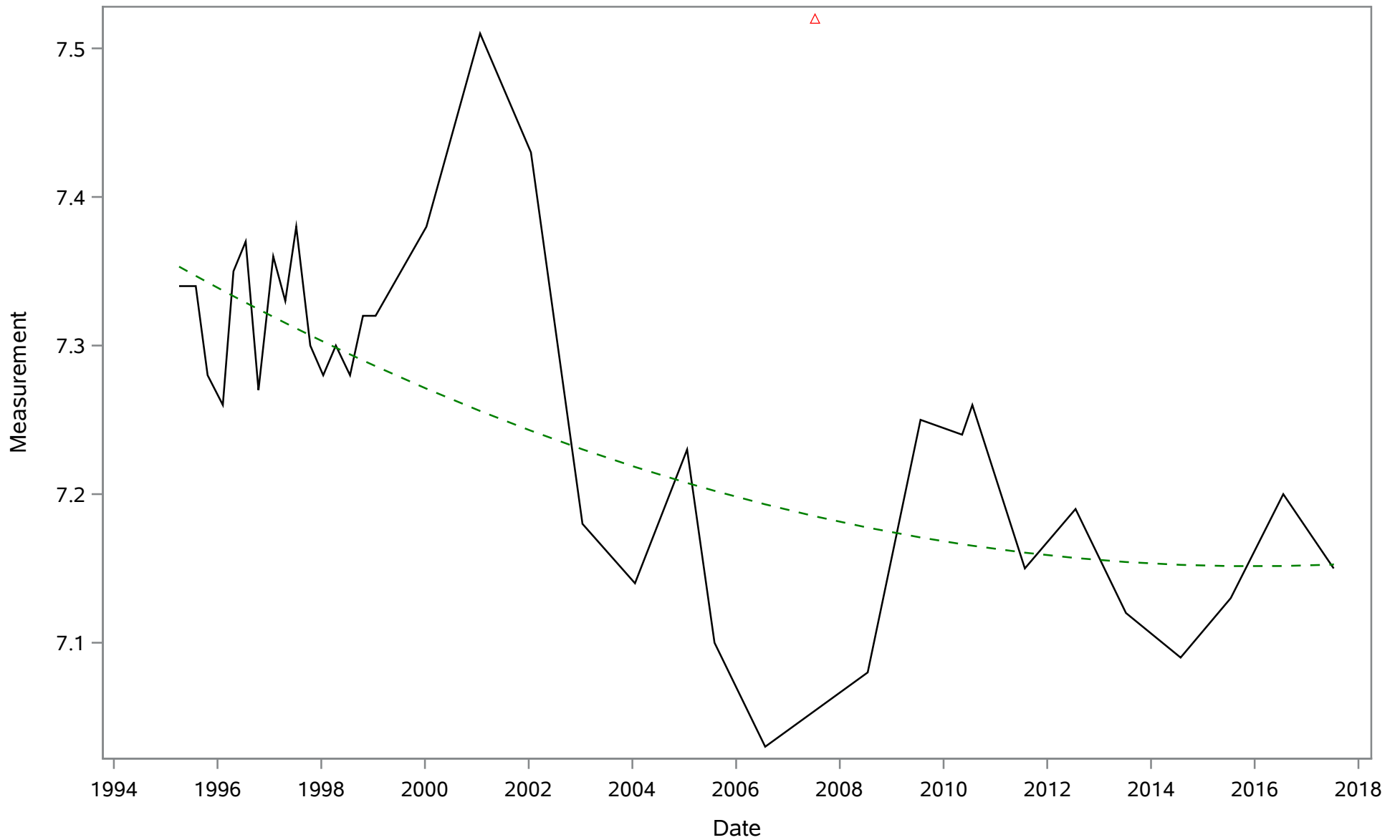
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Turbidity (Total) NTU



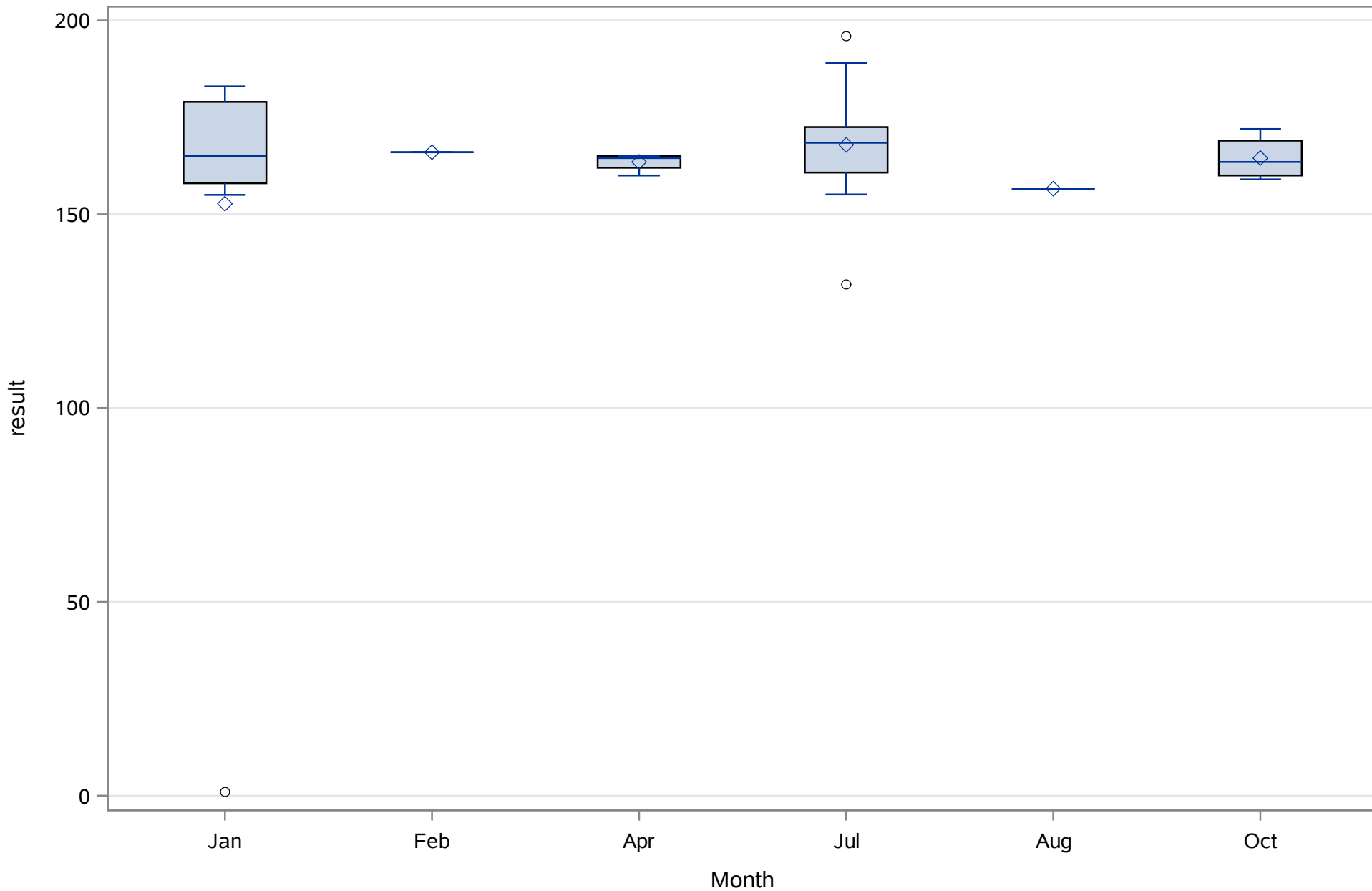
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
pH (Total) SU

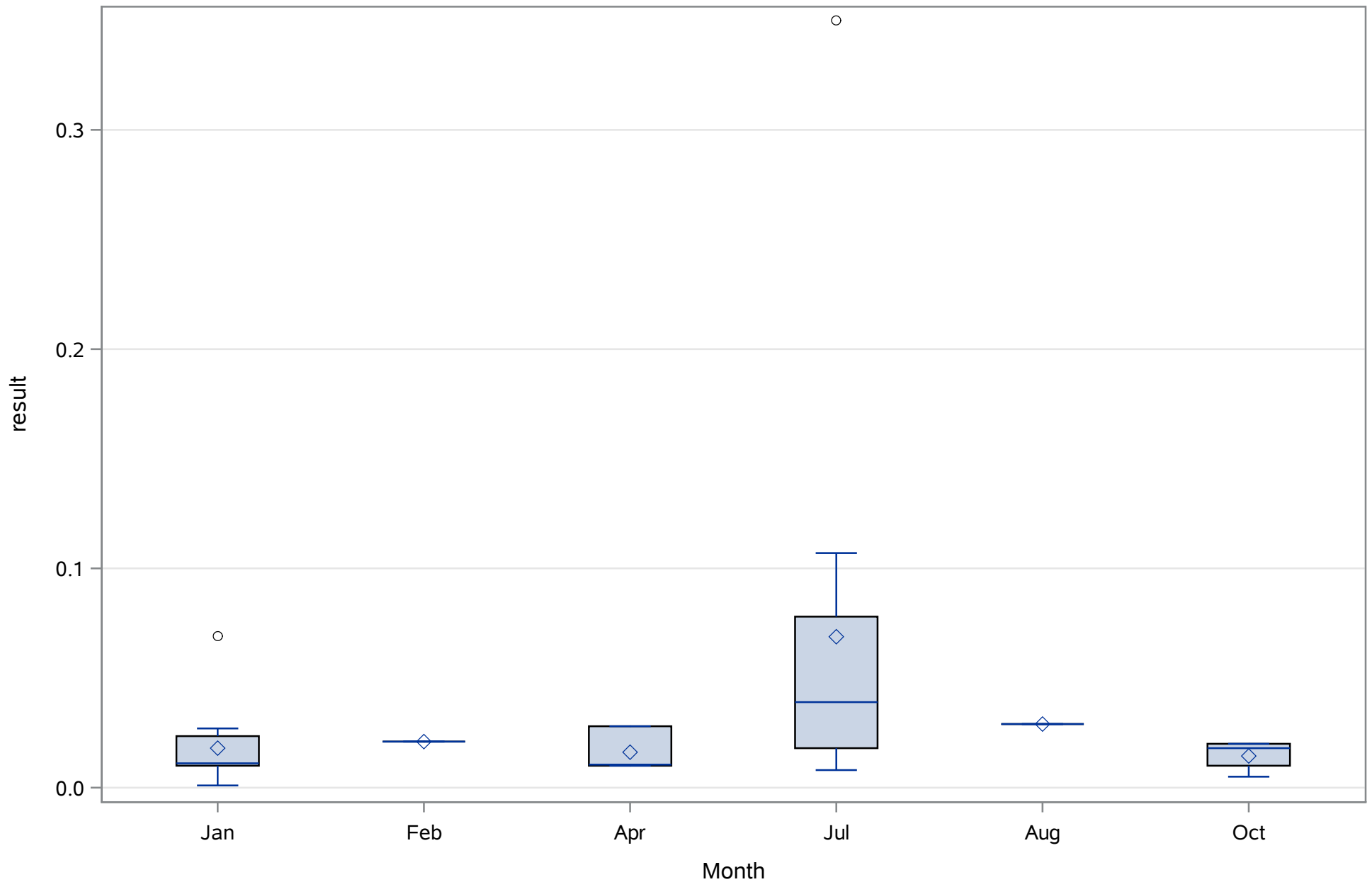


— Timeseries ▲ Outlier - - - Predicted

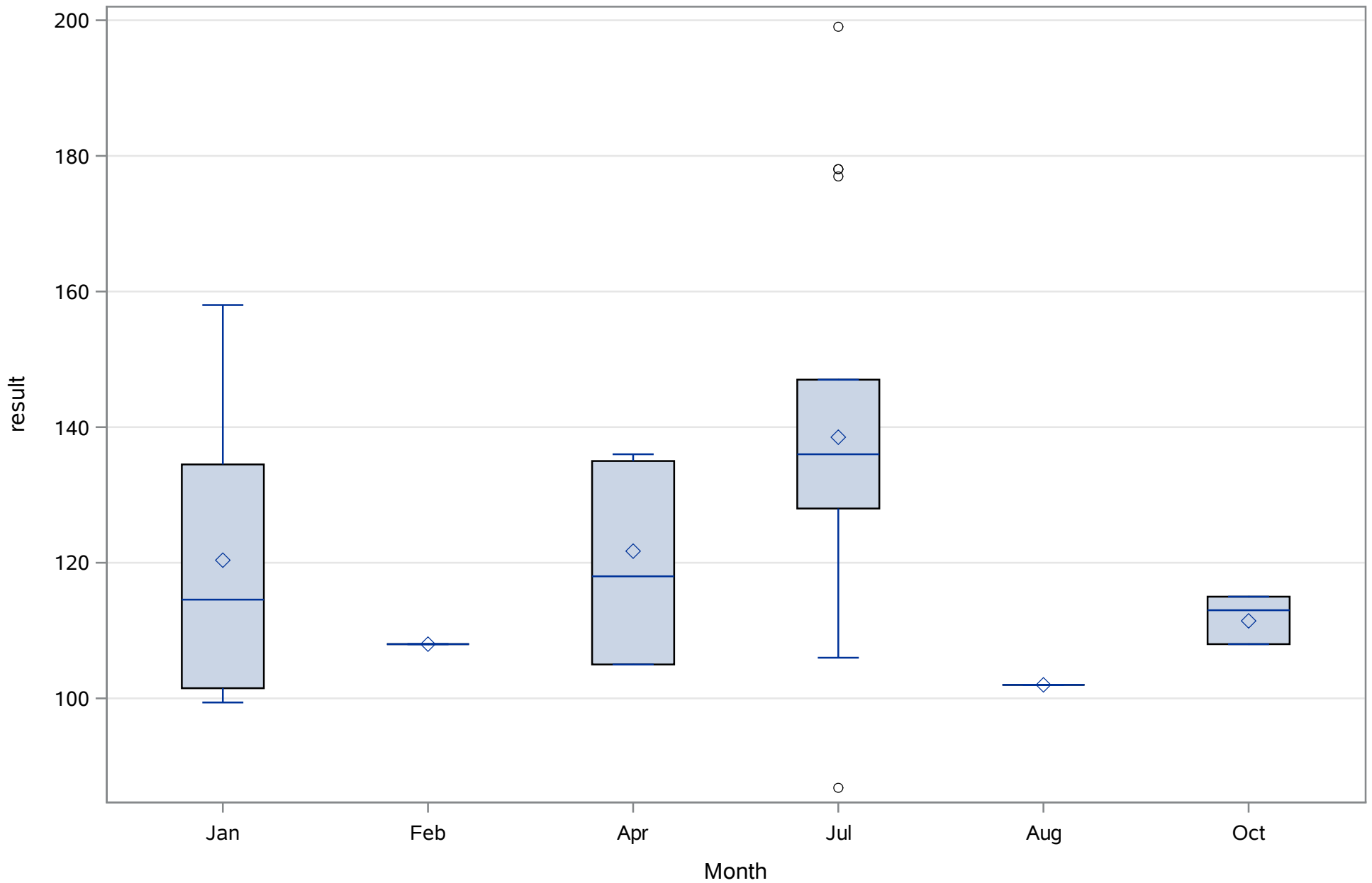
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Alkalinity (Total) mg/L



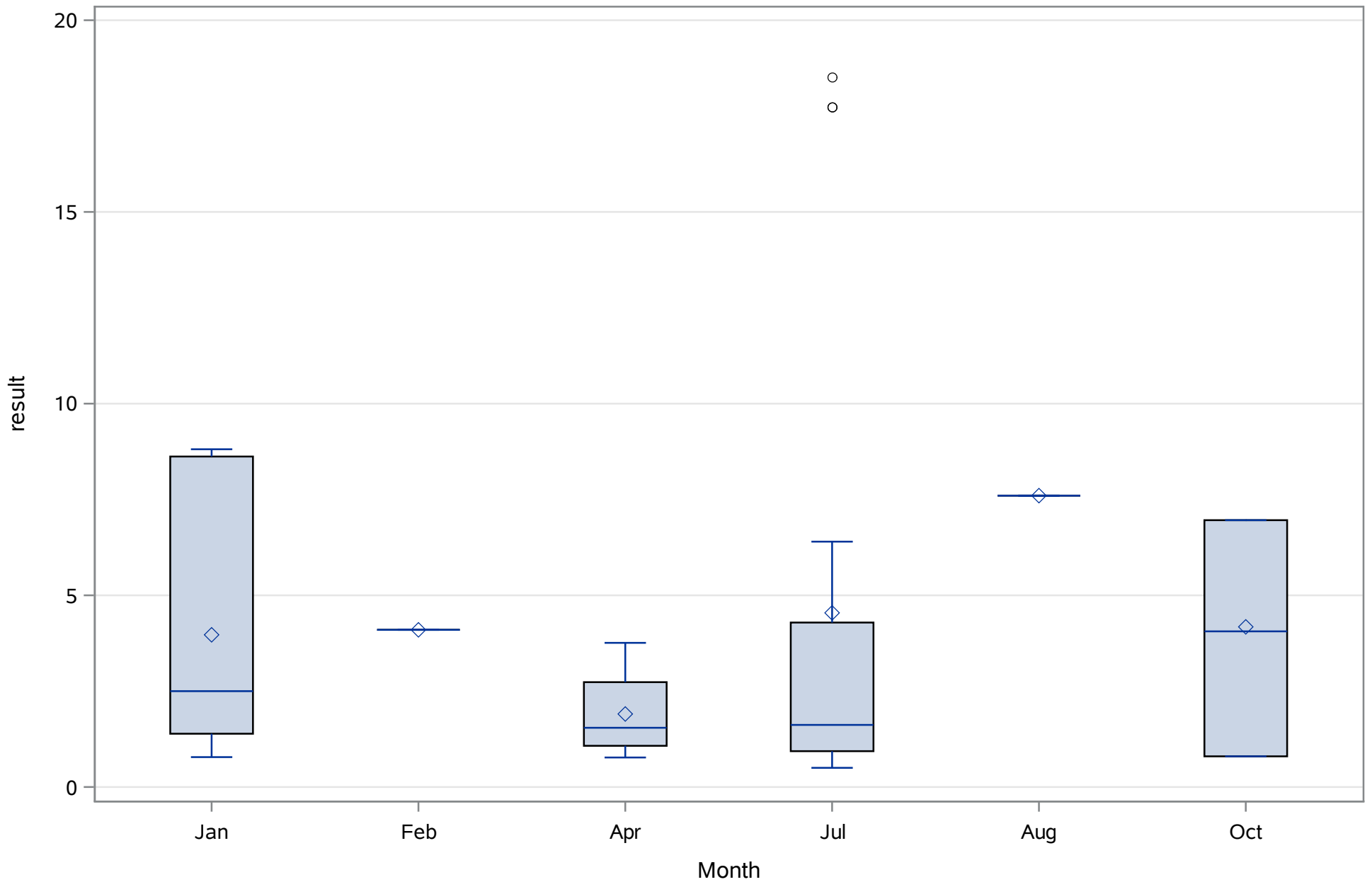
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Ammonia (N) (Dissolved) mg/L



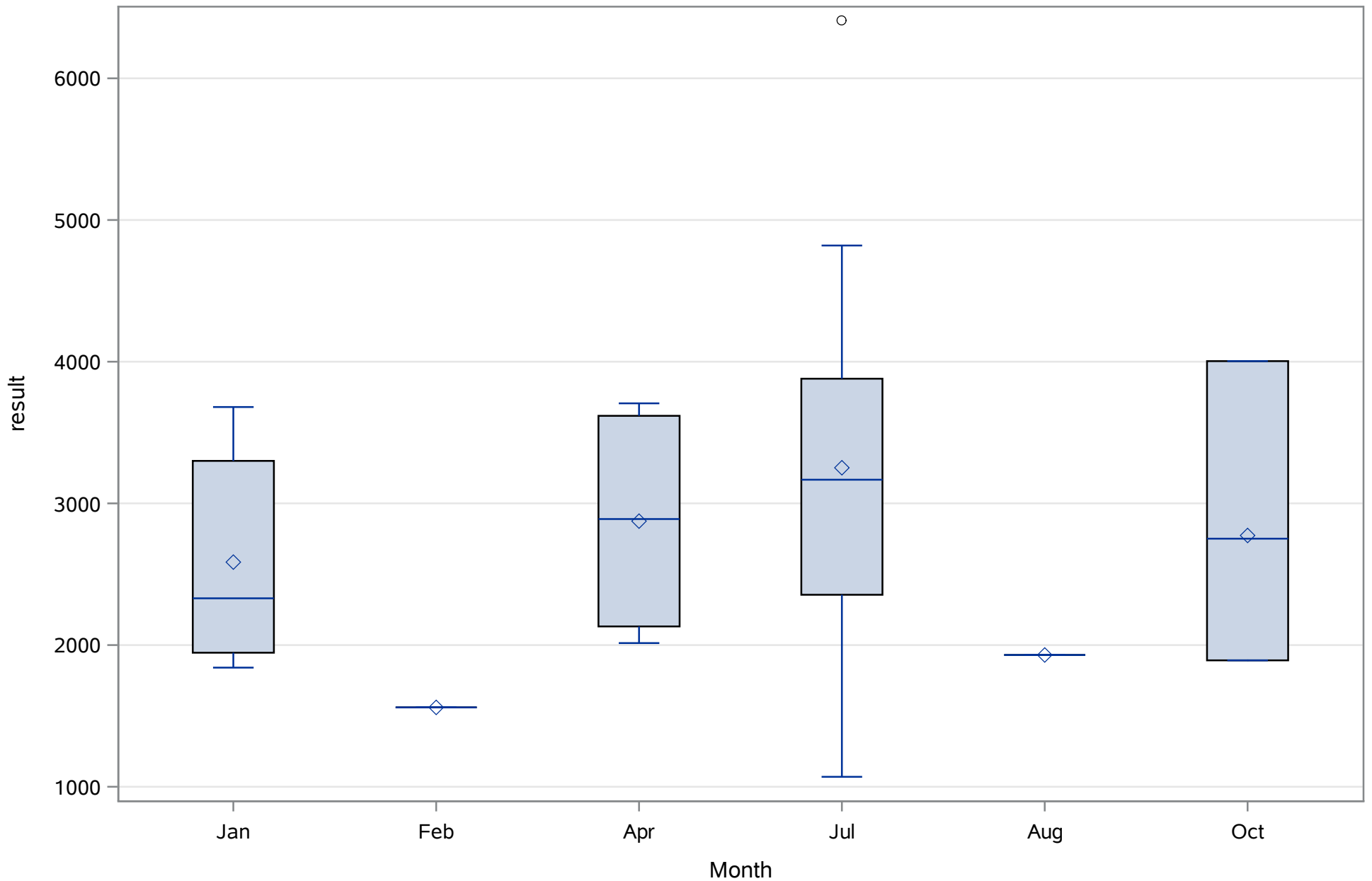
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Calcium (Dissolved) mg/L



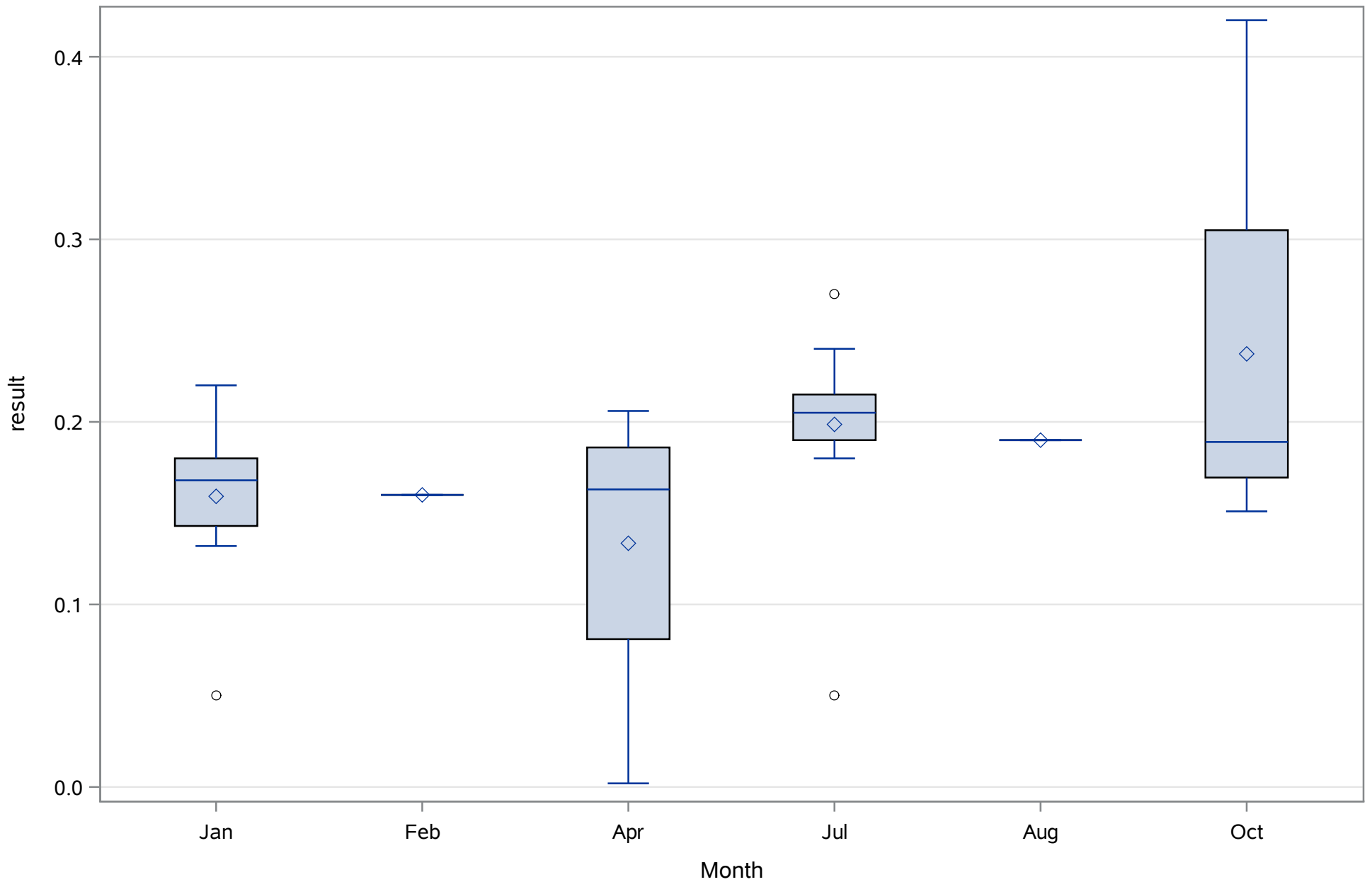
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Carbon- Total Organic (Total) mg/L



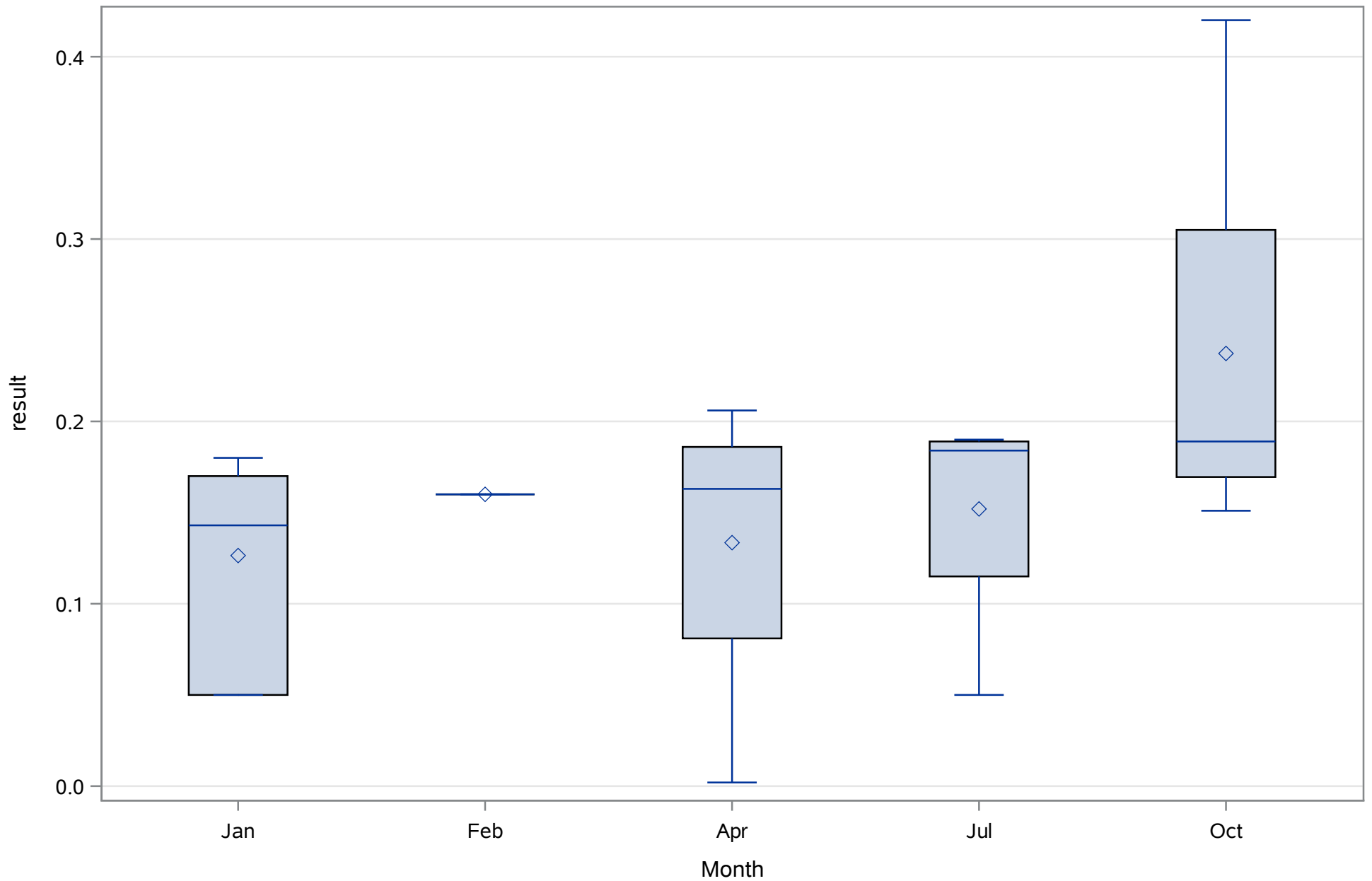
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Chloride (Dissolved) mg/L



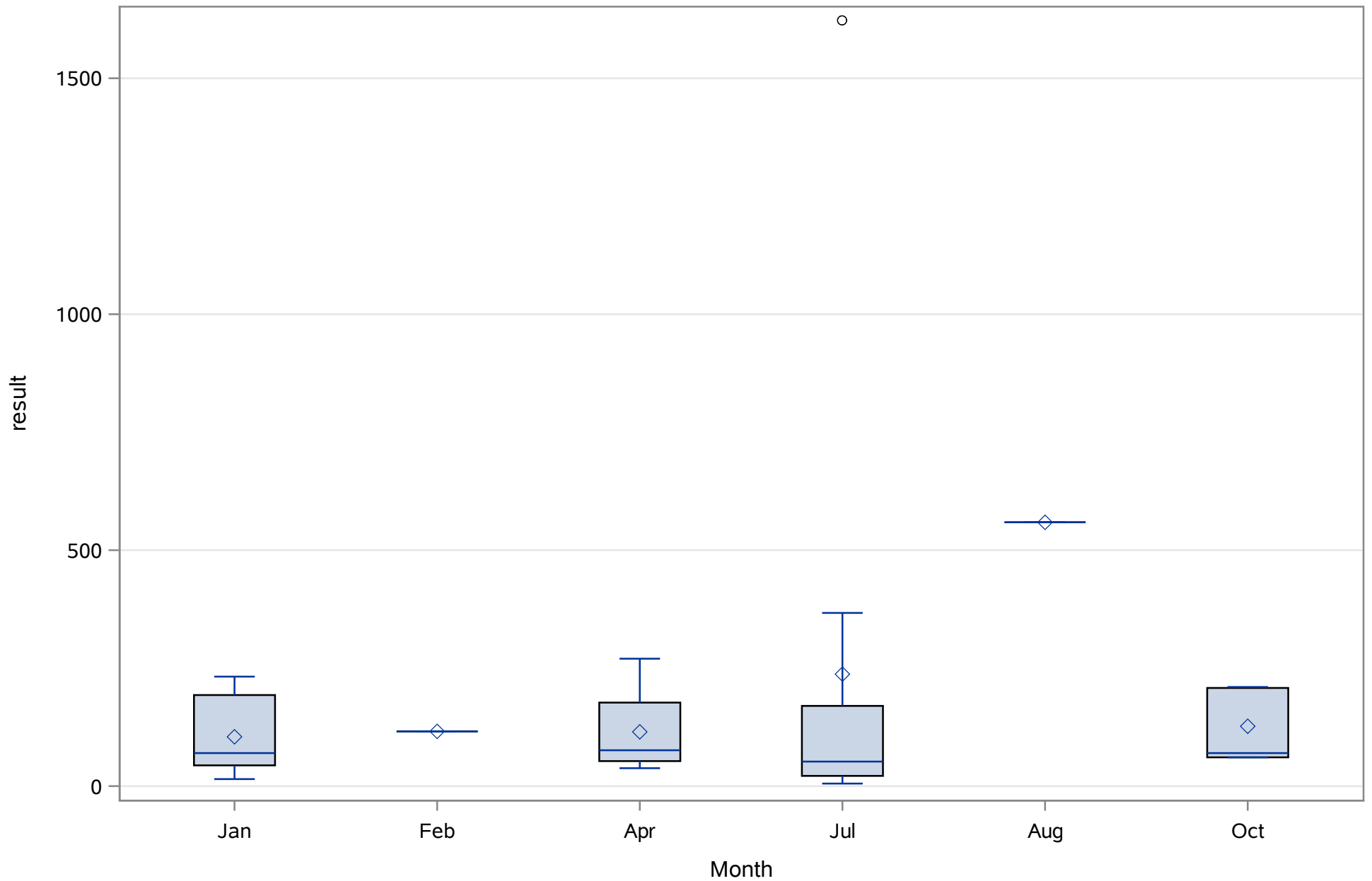
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Dissolved) mg/L



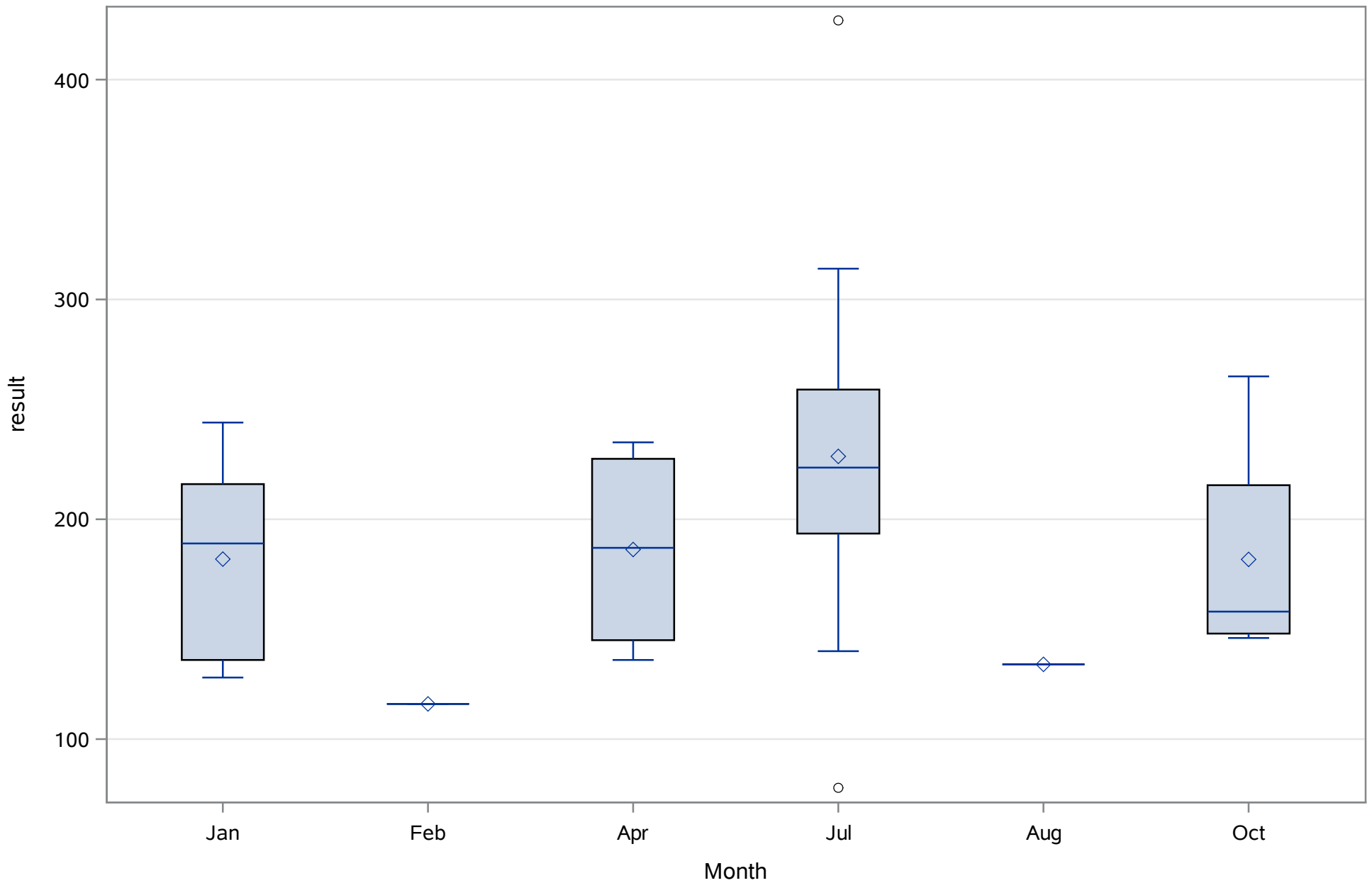
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Fluoride (Total) mg/L



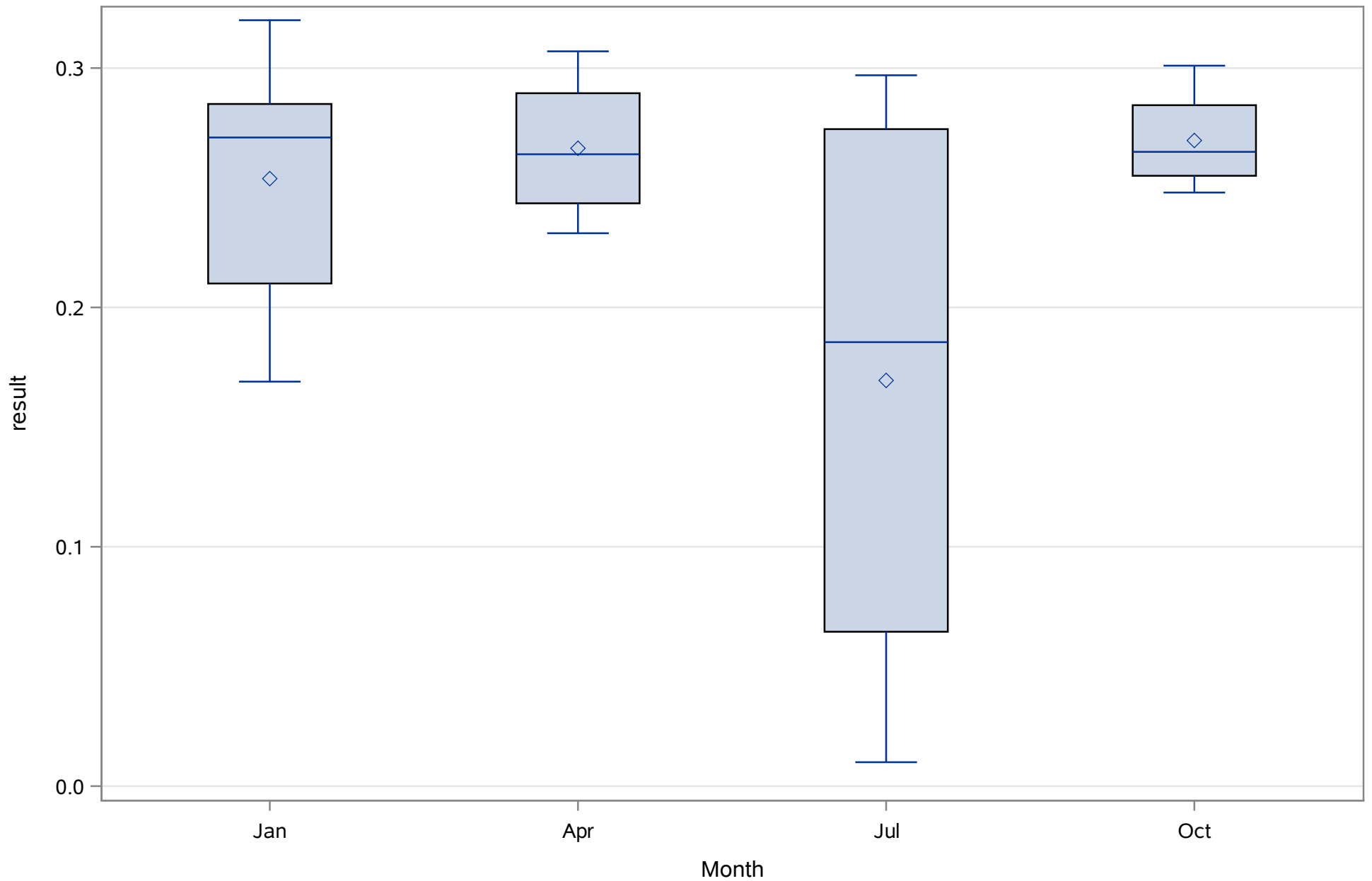
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Iron (Dissolved) ug/L



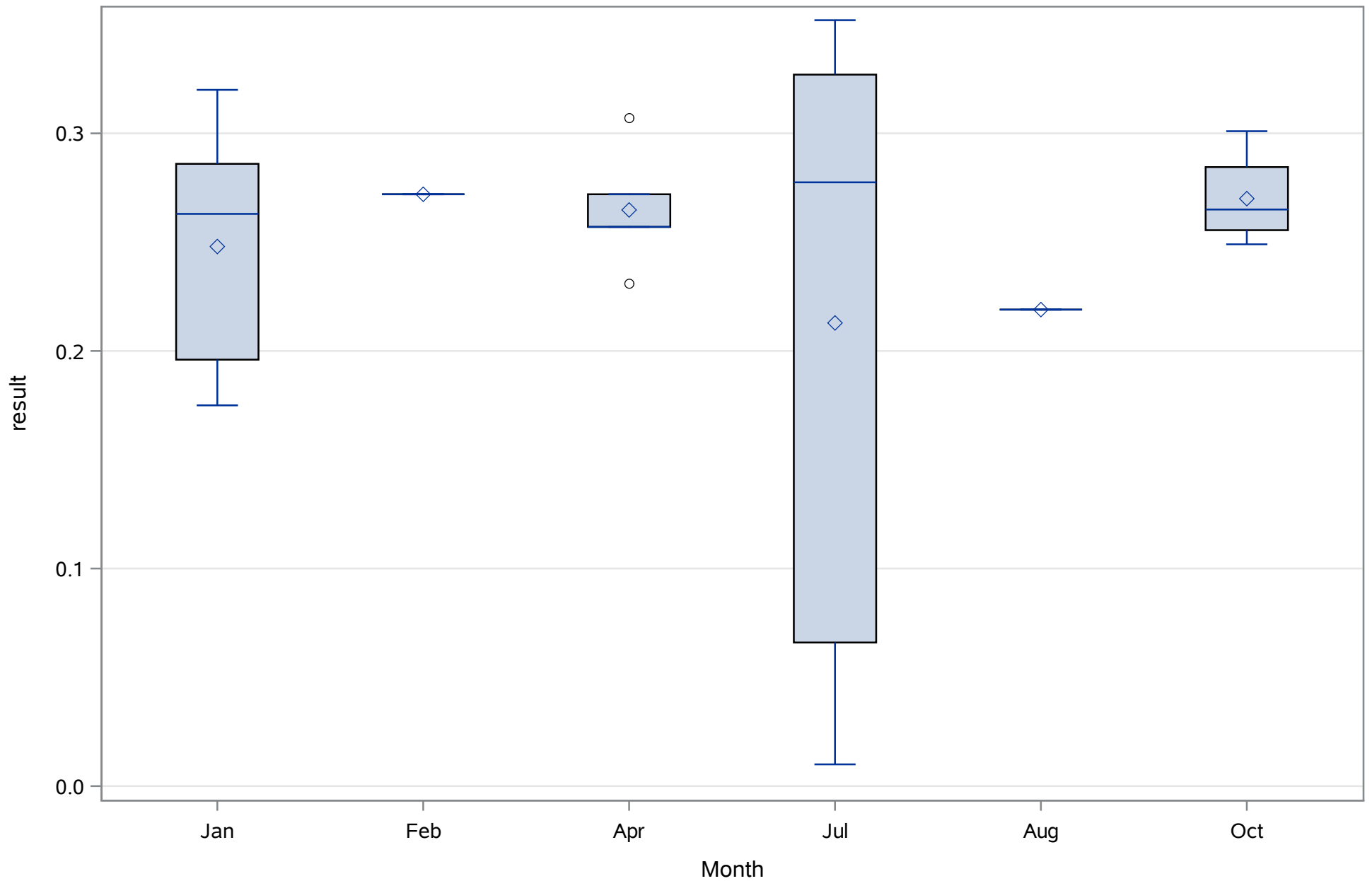
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Magnesium (Dissolved) mg/L



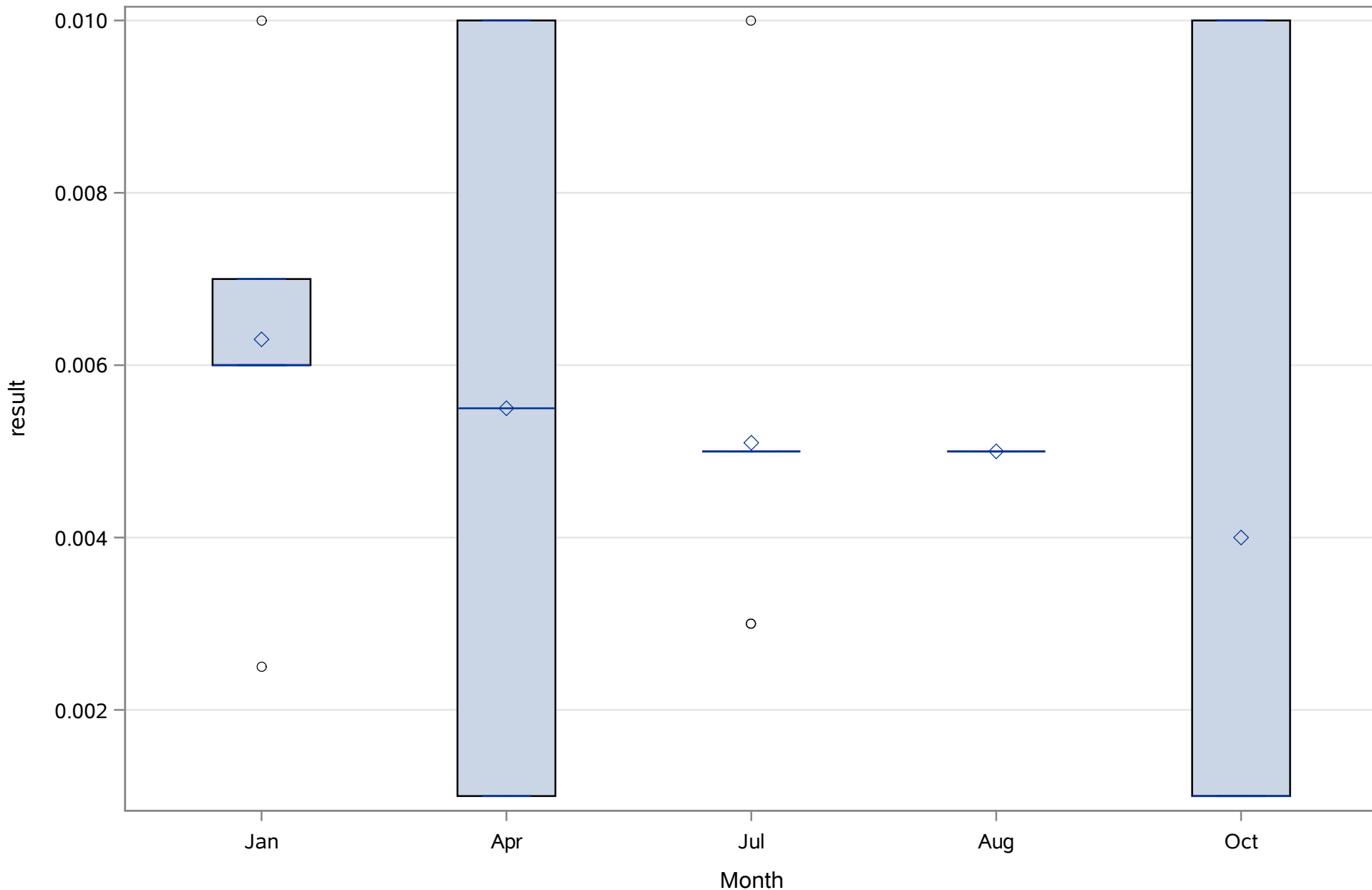
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate (N) (Dissolved) mg/L



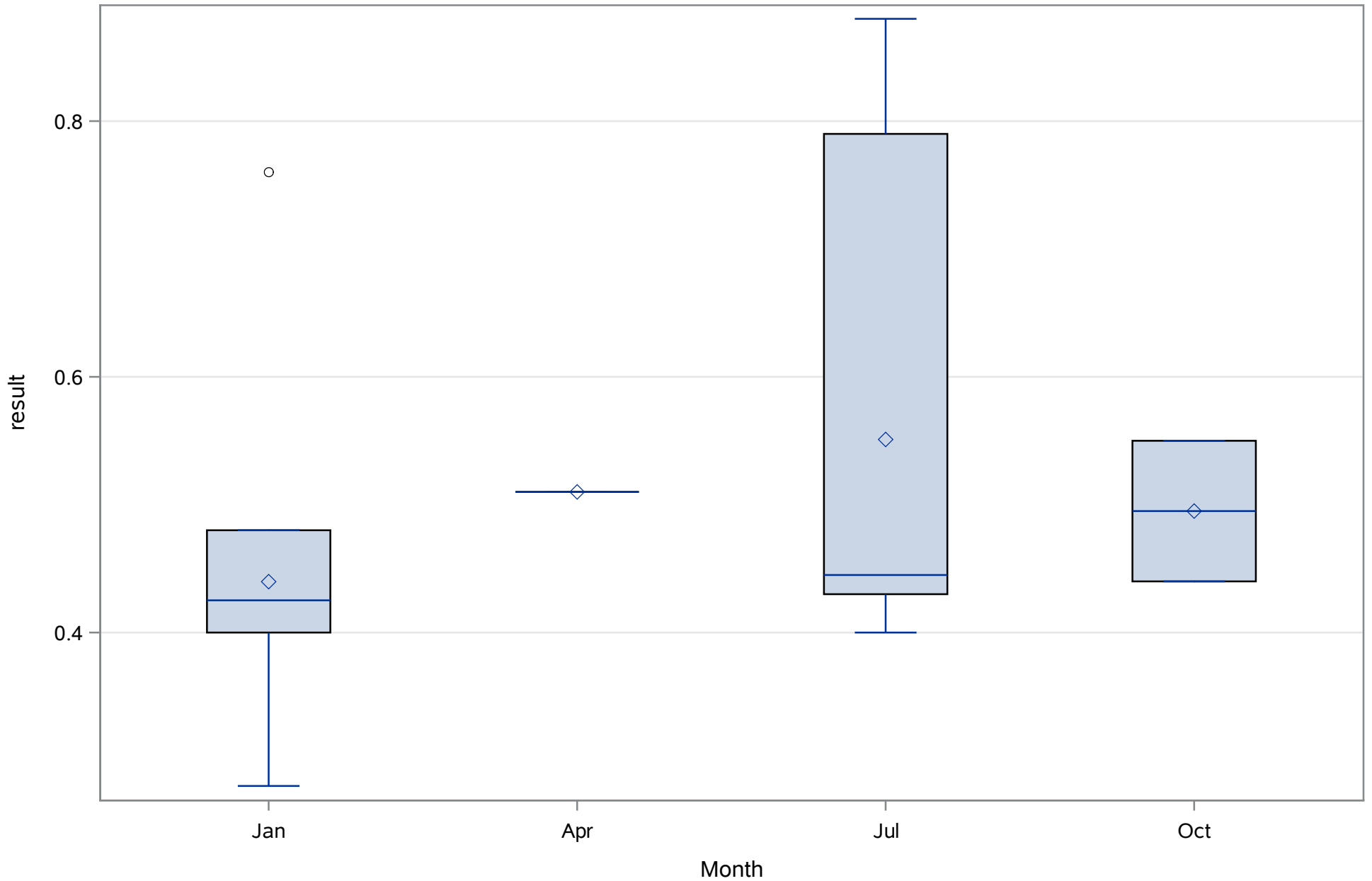
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



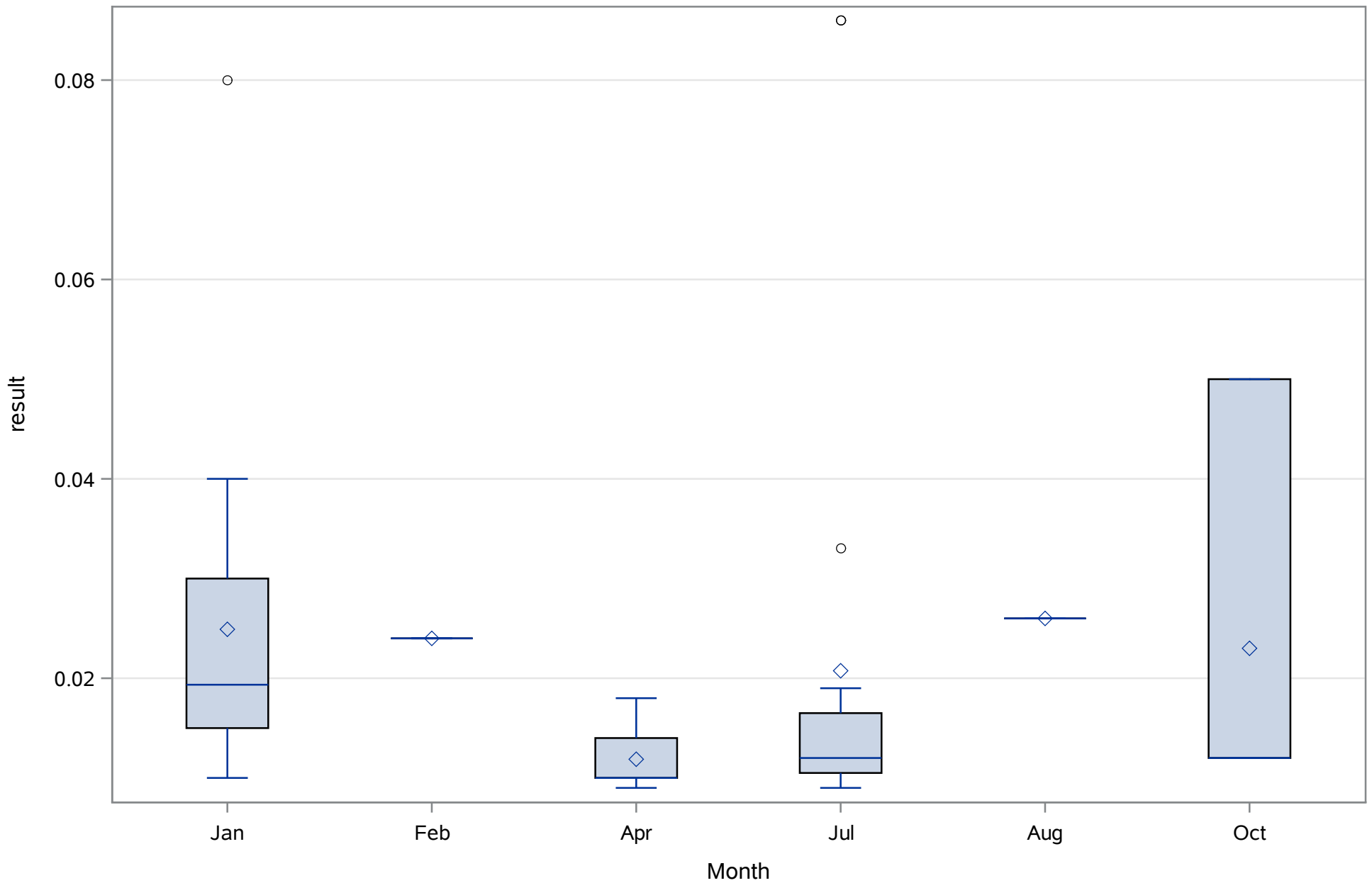
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrite (N) (Dissolved) mg/L



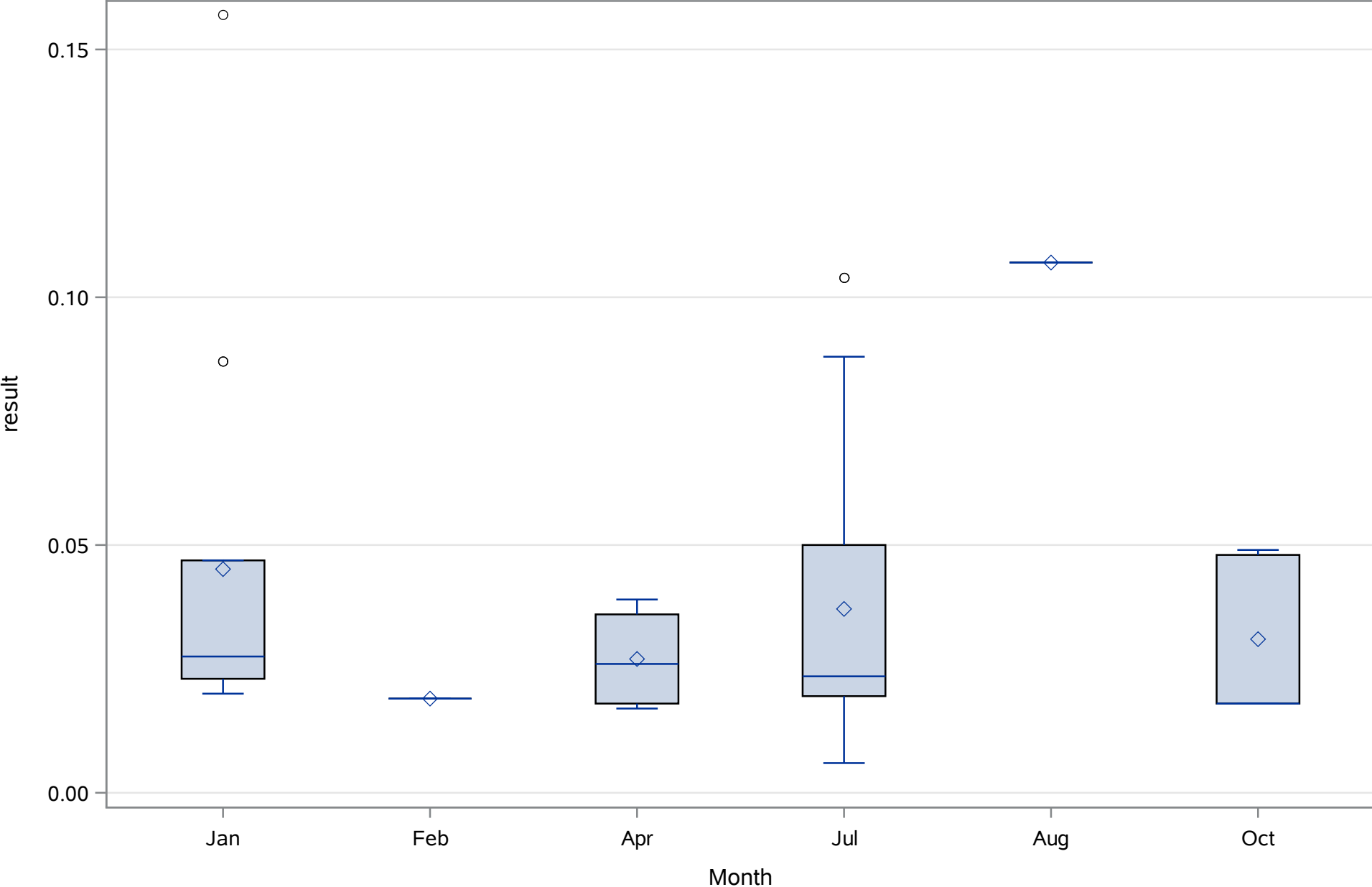
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Nitrogen- Total (Total) mg/L



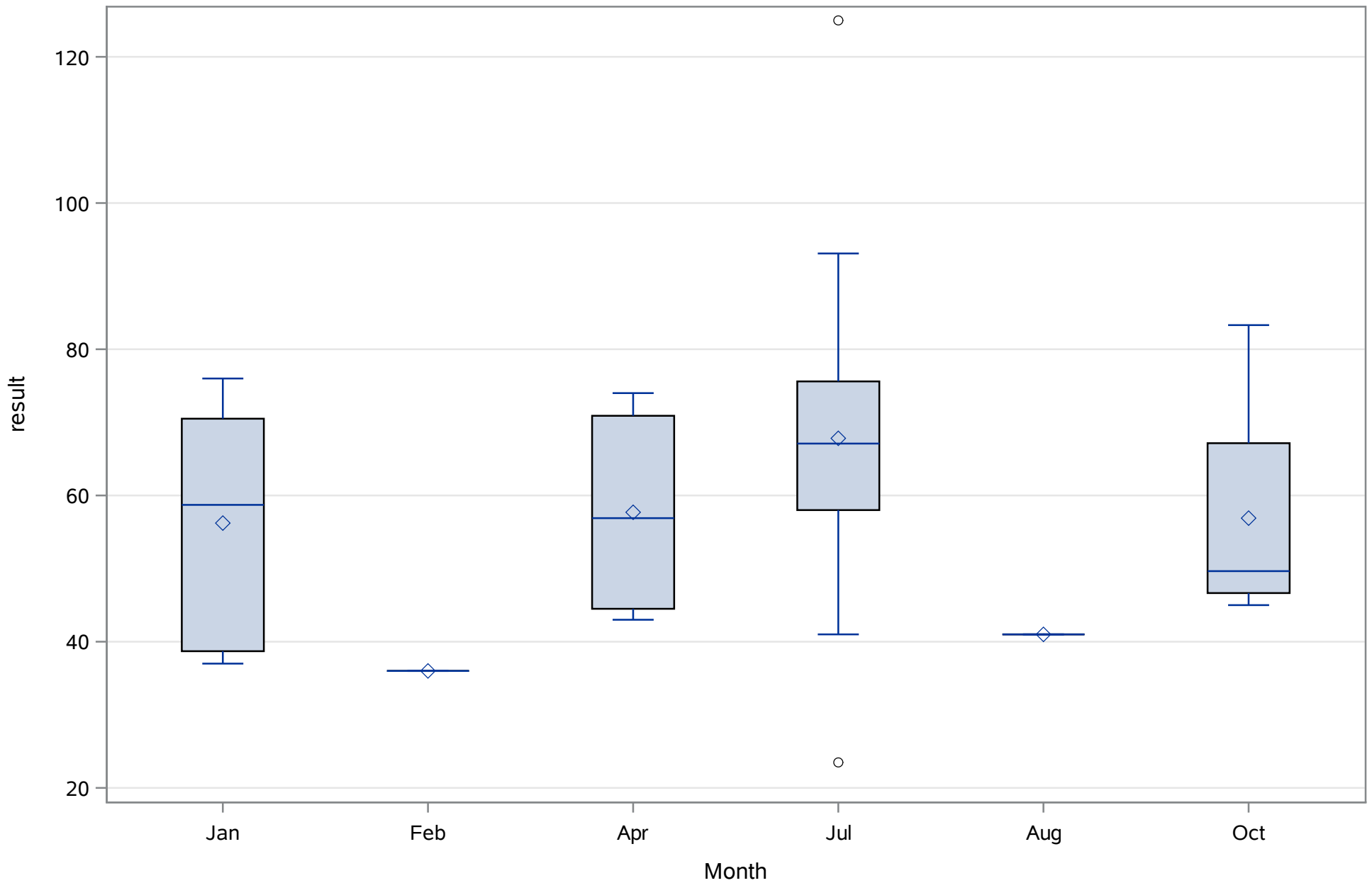
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Orthophosphate (P) (Dissolved) mg/L



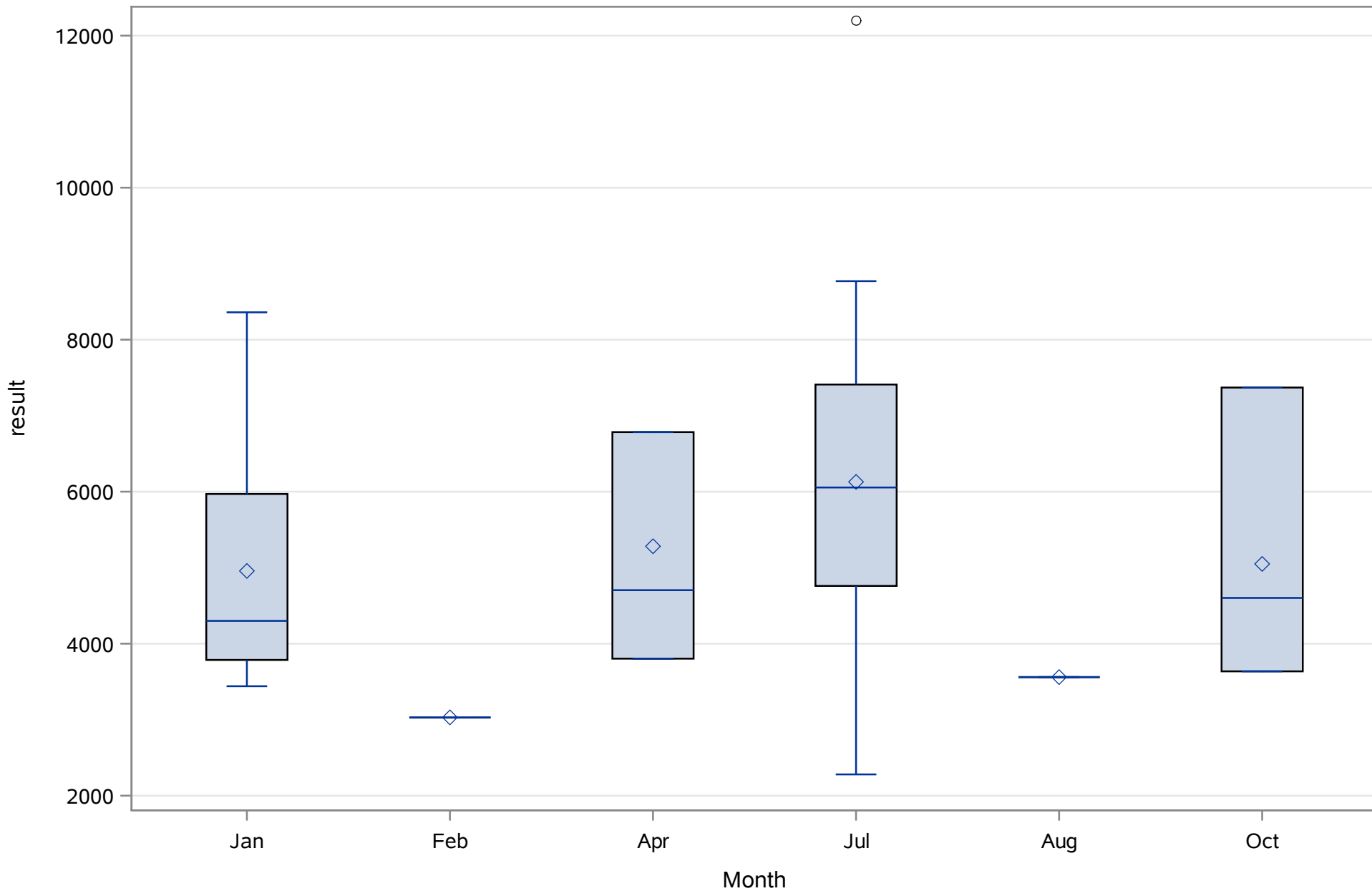
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Phosphorus- Total (Total) mg/L



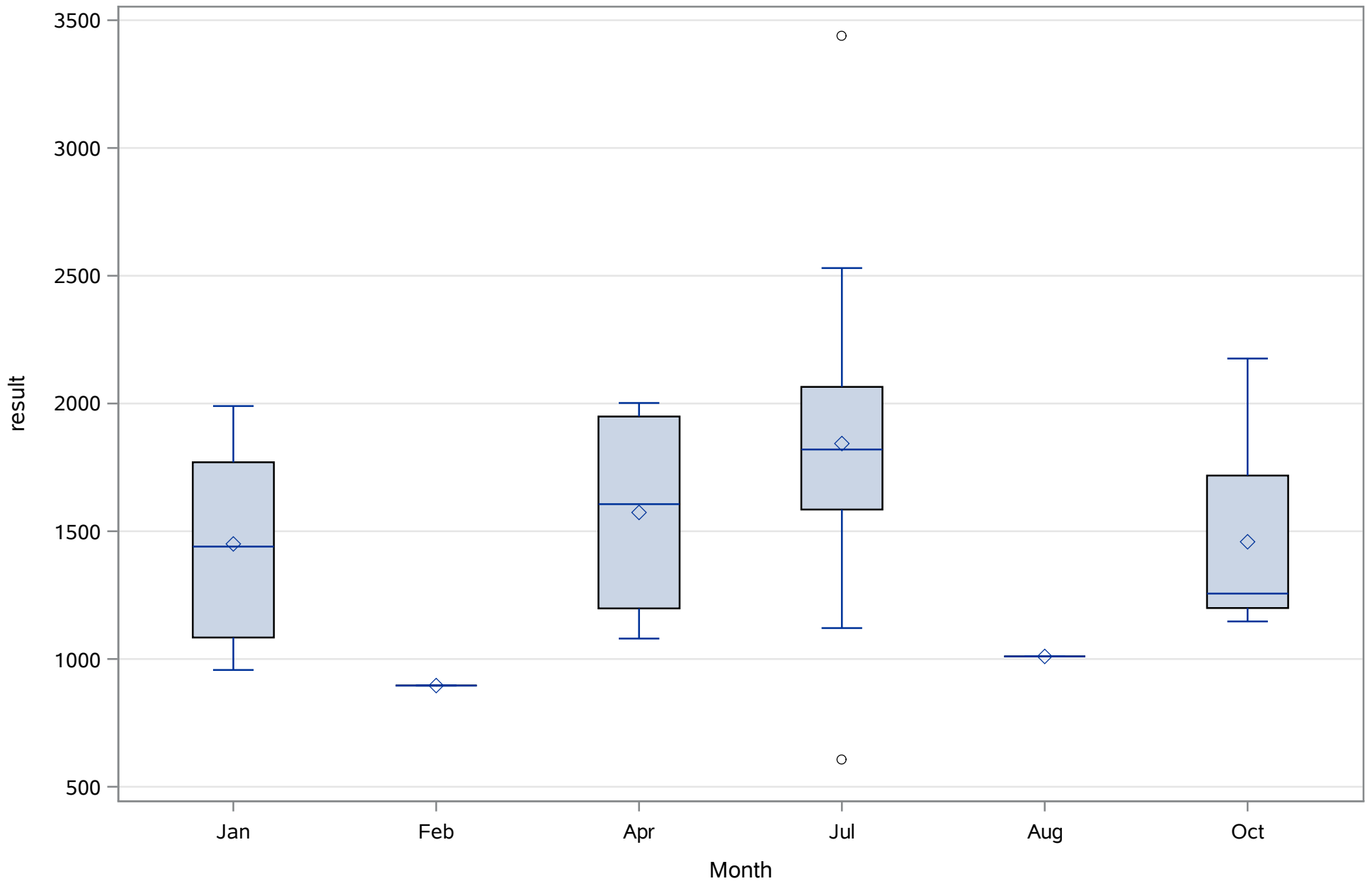
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Potassium (Dissolved) mg/L



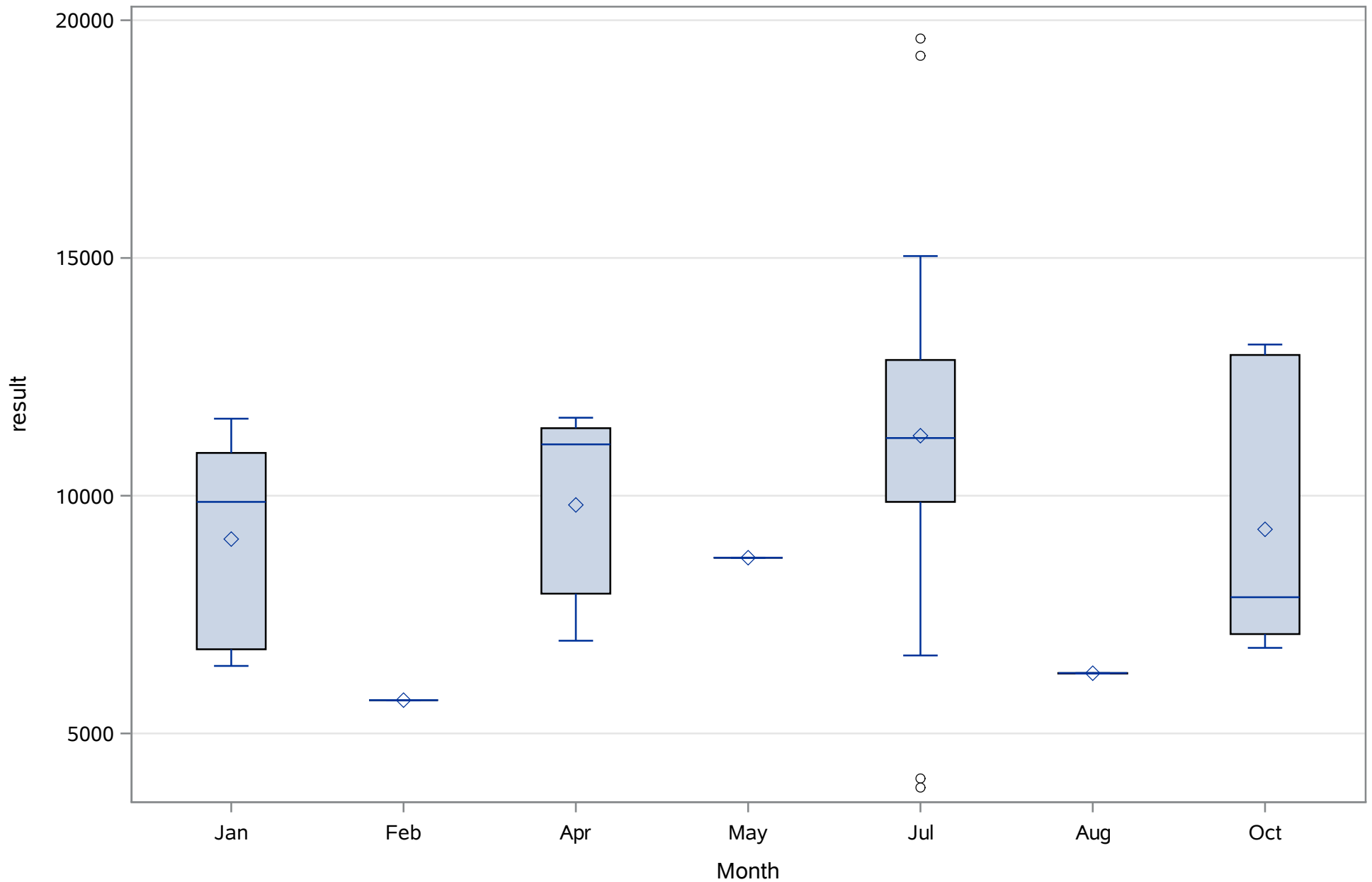
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Residues- Filterable (TDS) (Dissolved) mg/L



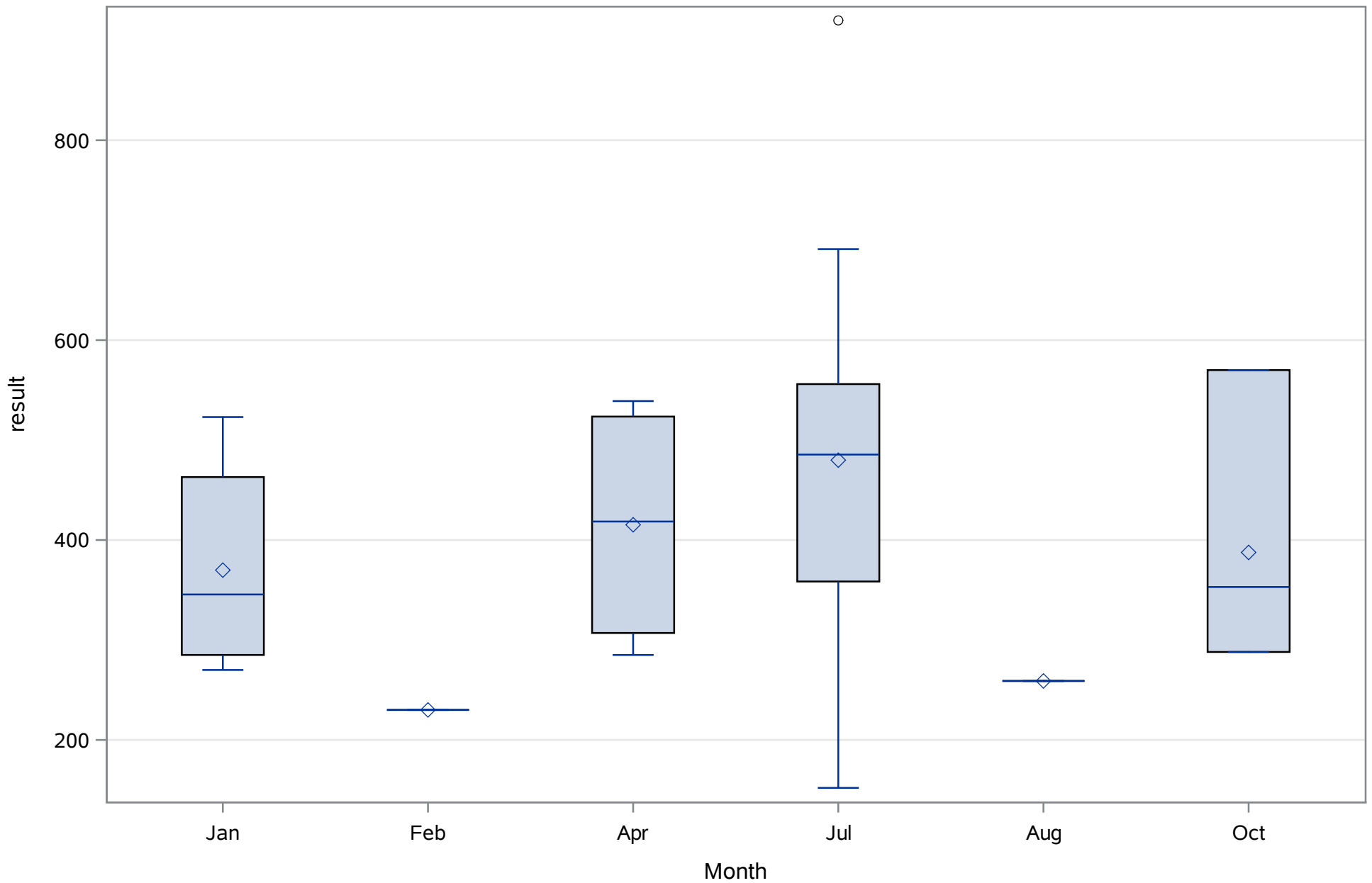
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Sodium (Dissolved) mg/L



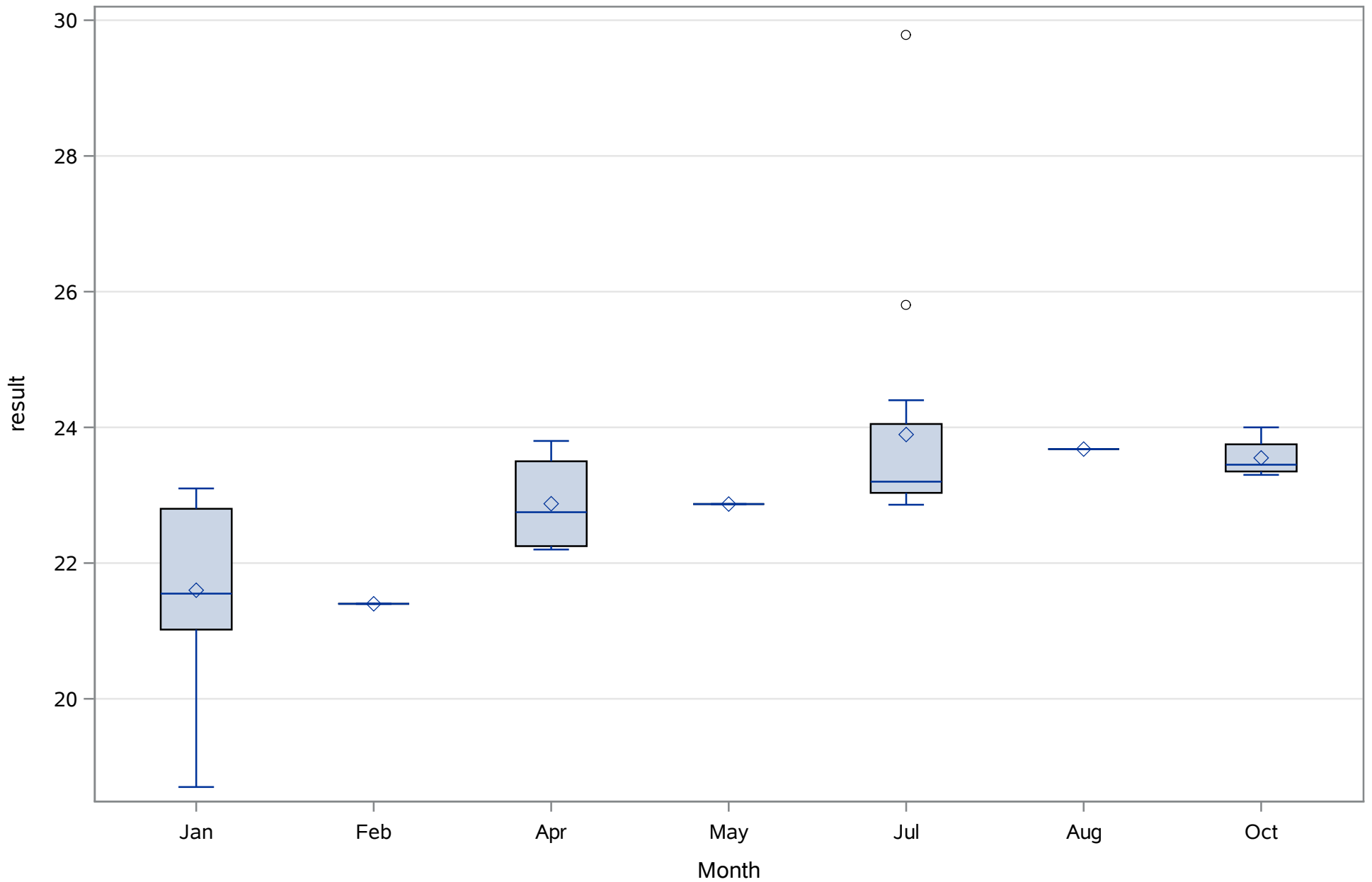
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Specific Conductance (Total) uS/cm



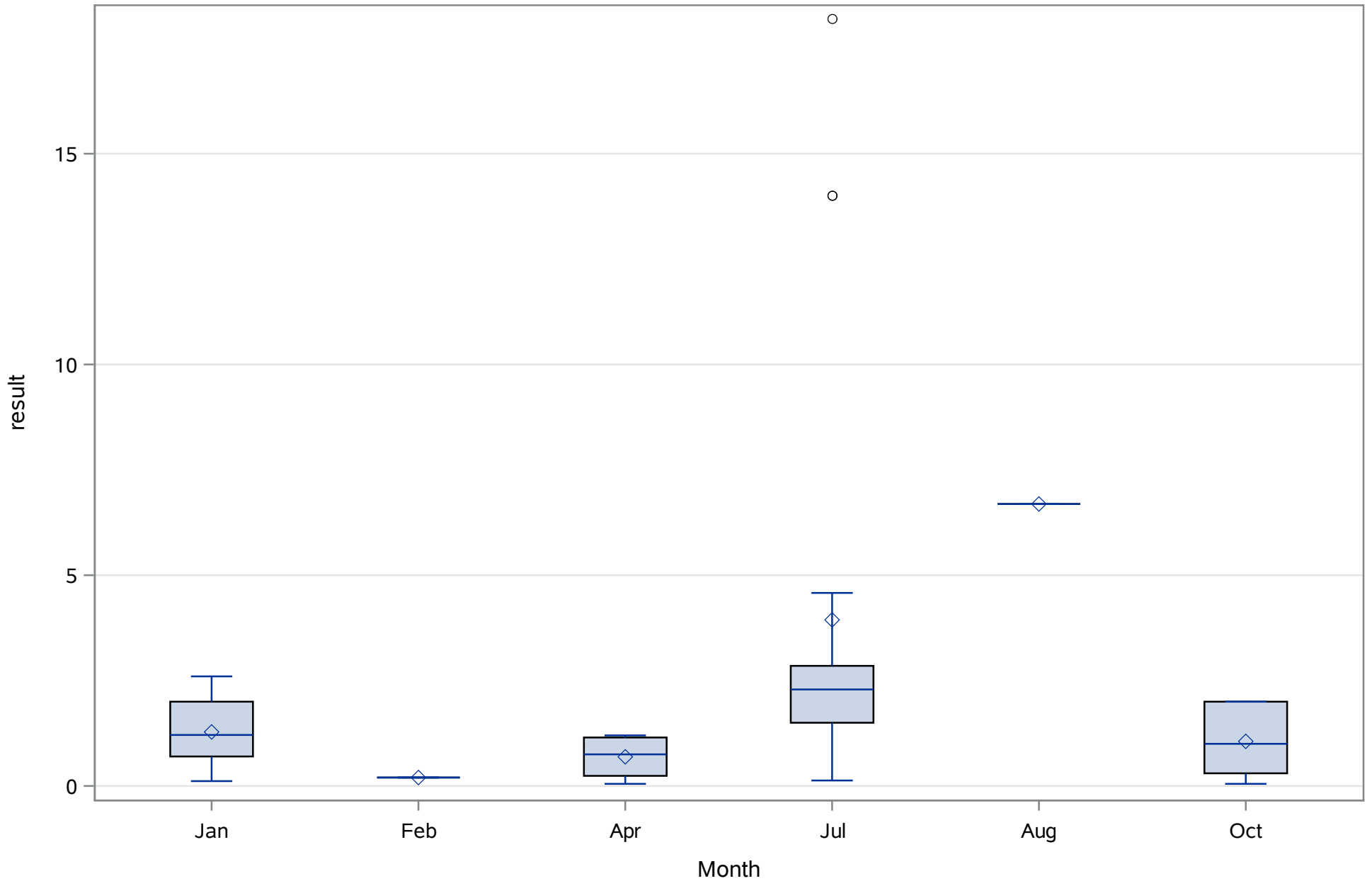
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Sulfate (Dissolved) mg/L



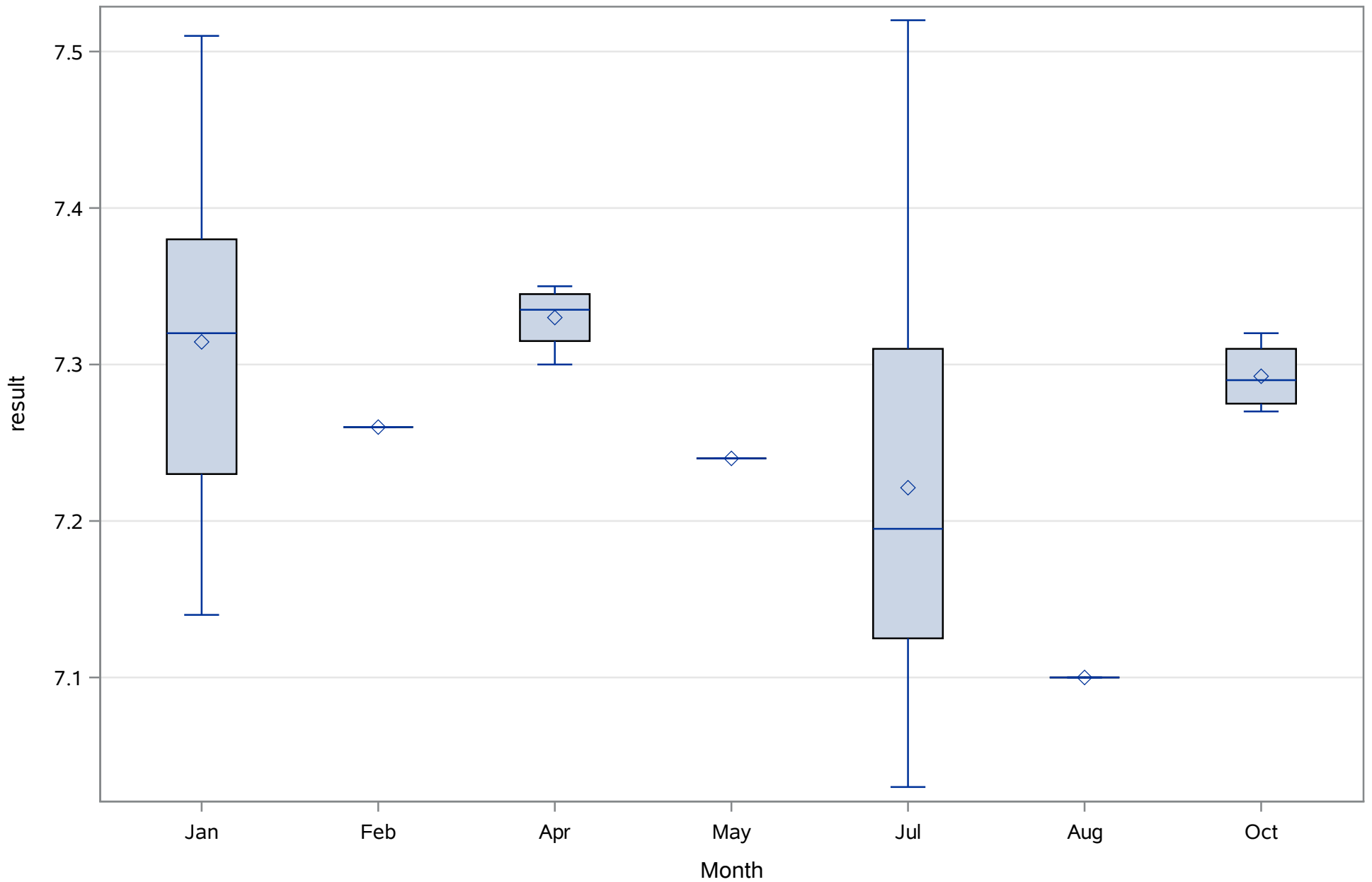
Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Blue Run Spring
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Total)	mg/L	JUL1994	JUL2017	61	4.9%	0.0%	1.6%
Aluminum (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	5.3%
Ammonia (N) (Dissolved)	mg/L	JUL1994	JAN2010	34	8.8%	0.0%	2.9%
Ammonia (N) (Total)	mg/L	JAN1998	JUL2017	33	15.2%	0.0%	3.0%
Bicarbonate (Total)	mg/L	OCT1994	JAN1999	4	0.0%	0.0%	0.0%
Boron (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JUL1994	JUL2017	66	3.0%	0.0%	1.5%
Calcium (Total)	mg/L	JAN1999	JAN1999	1	0.0%	0.0%	100.0%
Carbon- Total Organic (Total)	mg/L	JUL1994	JUL2017	67	7.5%	0.0%	3.0%
Chloride (Dissolved)	mg/L	JUL1994	JUL2017	67	1.5%	0.0%	1.5%
Color (Dissolved)	PCU	APR2010	JUL2017	30	3.3%	0.0%	0.0%
Depth (Total)	Meters	JUL2007	JAN2010	7	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	JUL2008	JUL2008	1	0.0%	0.0%	100.0%
Dissolved Oxygen (Total)	mg/L	JAN2002	JUL2017	50	6.0%	0.0%	4.0%
Eh, Field (hydrogen electrode)	mV	JAN2002	JAN2002	1	0.0%	0.0%	100.0%
Fluoride (Dissolved)	mg/L	JUL1994	JUL2017	59	5.1%	0.0%	1.7%
Fluoride (Total)	mg/L	JUL1994	JAN2003	11	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	JAN1998	JAN2000	3	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	JUL1994	JUL2017	67	13.4%	0.0%	3.0%
Magnesium (Dissolved)	mg/L	JUL1994	JUL2017	60	3.3%	0.0%	3.3%
Magnesium (Total)	mg/L	JUL1994	JAN1999	8	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Nitrate (N) (Dissolved)	mg/L	JUL1994	JAN2005	14	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	FEB1996	JAN2000	5	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	JUL1994	JAN2010	33	3.0%	0.0%	3.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2002	JUL2017	31	3.2%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	OCT1994	JAN2010	26	11.5%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN1998	JUL2017	32	0.0%	0.0%	6.3%
Nitrogen- Organic (Dissolved)	mg/L	JUL1994	JAN1998	6	0.0%	0.0%	0.0%
Nitrogen- Total (Dissolved)	mg/L	JAN2003	OCT2009	16	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN1998	JUL2017	37	8.1%	0.0%	5.4%
Nitrogen- Total Kjeldahl (Total)	mg/L	JUL1994	JAN2010	7	0.0%	0.0%	0.0%
Nitrogen15/Nitrogen14 Isotope Ratio	per mil	JUL2005	JUL2005	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Orthophosphate (P) (Dissolved)	mg/L	JUL1994	JUL2017	67	4.5%	0.0%	3.0%
Phosphorus- Total (Total)	mg/L	JUL1994	JUL2017	67	4.5%	0.0%	1.5%
Potassium (Dissolved)	mg/L	JUL1994	JUL2017	60	3.3%	0.0%	3.3%
Potassium (Total)	mg/L	JUL1994	JAN1999	8	0.0%	0.0%	0.0%
Purge Volume (Total)	Gallons	JAN2002	JUL2007	9	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	JUL1994	JUL2017	64	3.1%	0.0%	3.1%
Silica- Dissolved (Dissolved)	mg/L	JAN2003	JUL2017	50	4.0%	0.0%	2.0%
Sodium (Dissolved)	mg/L	JUL1994	JUL2017	60	1.7%	0.0%	1.7%
Sodium (Total)	mg/L	JUL1994	JAN2000	9	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JUL1994	JUL2017	115	3.5%	1.7%	2.6%
Strontium (Dissolved)	mg/L	JUL2005	JUL2017	46	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	JAN1997	JAN2005	10	90.0%	0.0%	20.0%
Strontium (Total)	ug/L	FEB1996	JAN2000	6	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	JUL1994	JUL2017	67	1.5%	0.0%	1.5%
Temperature (Total)	Deg. C	JUL1994	JUL2017	60	5.0%	0.0%	3.3%
Turbidity (Total)	NTU	JUL1994	JUL2017	67	1.5%	0.0%	0.0%
pH (Total)	SU	JUL1994	JUL2017	60	3.3%	0.0%	0.0%

Chassahowitzka River - Fixed Station

Source: Springs Data

Baird Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	153.221967	Sum Observations	9346.54
Std Deviation	20.5251237	Variance	421.280703
Skewness	-6.9993429	Kurtosis	52.5919249
Uncorrected SS	1457372.09	Corrected SS	25276.8422
Coeff Variation	13.3956795	Std Error Mean	2.6279728

Basic Statistical Measures			
Location		Variability	
Mean	153.2220	Std Deviation	20.52512
Median	155.5000	Variance	421.28070
Mode	149.0000	Range	168.00000
		Interquartile Range	6.90000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	58.30424	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	169.0
99%	169.0
95%	164.1
90%	163.0
75% Q3	159.0
50% Median	155.5
25% Q1	152.1
10%	148.0
5%	147.6
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	12	164.0	50
143.0	8	164.1	48
146.0	4	164.6	40
147.6	16	167.0	11
147.8	17	169.0	13

Chassahowitzka River - Fixed Station

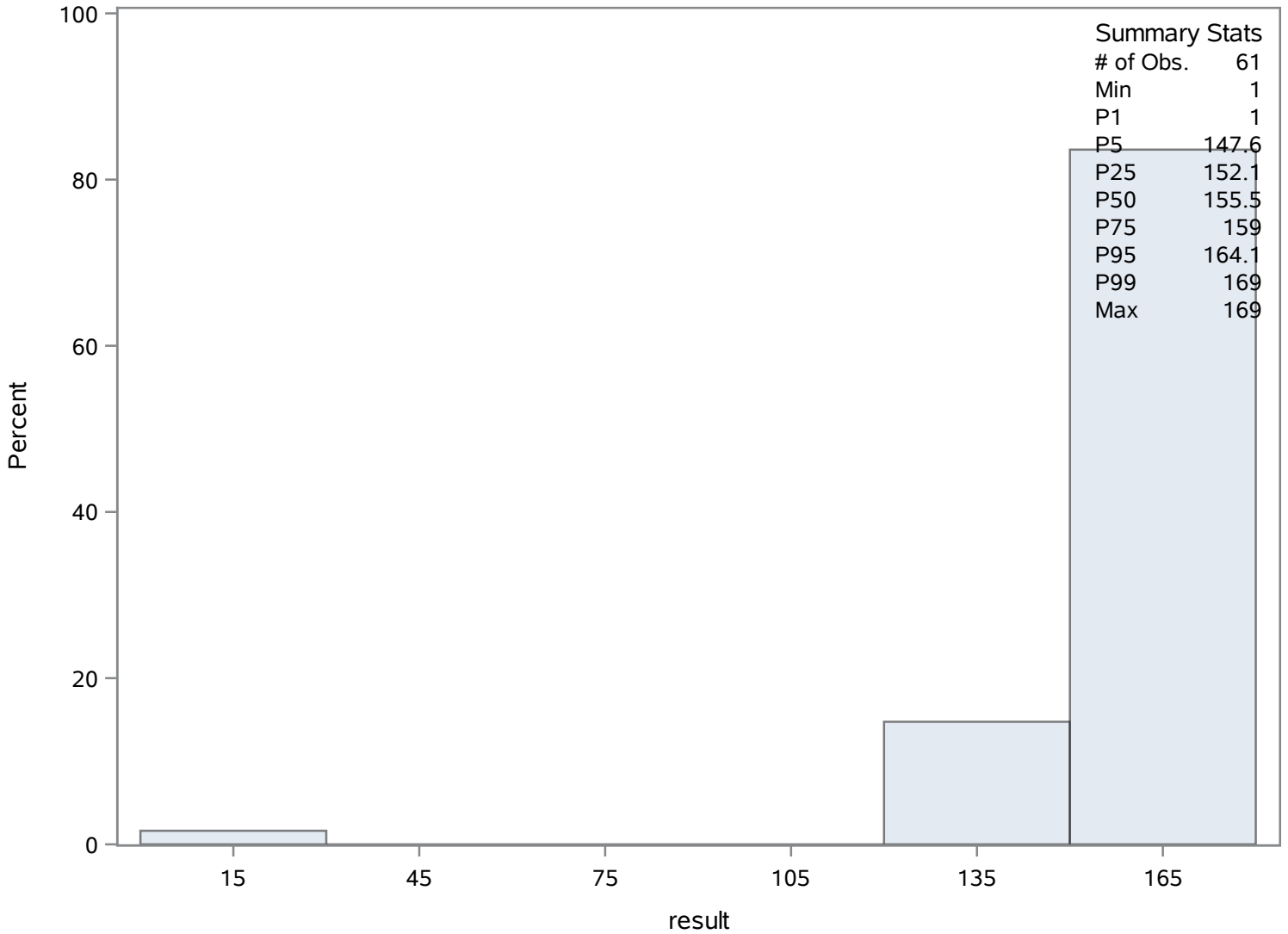
Source: Springs Data

Baird Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	34	Sum Weights	34
Mean	0.01275	Sum Observations	0.4335
Std Deviation	0.01019079	Variance	0.00010385
Skewness	1.83774584	Kurtosis	2.86981045
Uncorrected SS	0.00895425	Corrected SS	0.00342713
Coeff Variation	79.9277924	Std Error Mean	0.00174771

Basic Statistical Measures			
Location		Variability	
Mean	0.012750	Std Deviation	0.01019
Median	0.010000	Variance	0.0001039
Mode	0.005000	Range	0.04050
		Interquartile Range	0.00700

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.295275	Pr > t 	<.0001
Sign	M	17	Pr >= M 	<.0001
Signed Rank	S	297.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0455
99%	0.0455
95%	0.0370
90%	0.0270
75% Q3	0.0120
50% Median	0.0100
25% Q1	0.0050
10%	0.0050
5%	0.0050
1%	0.0050
0% Min	0.0050

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Dissolved) mg/L

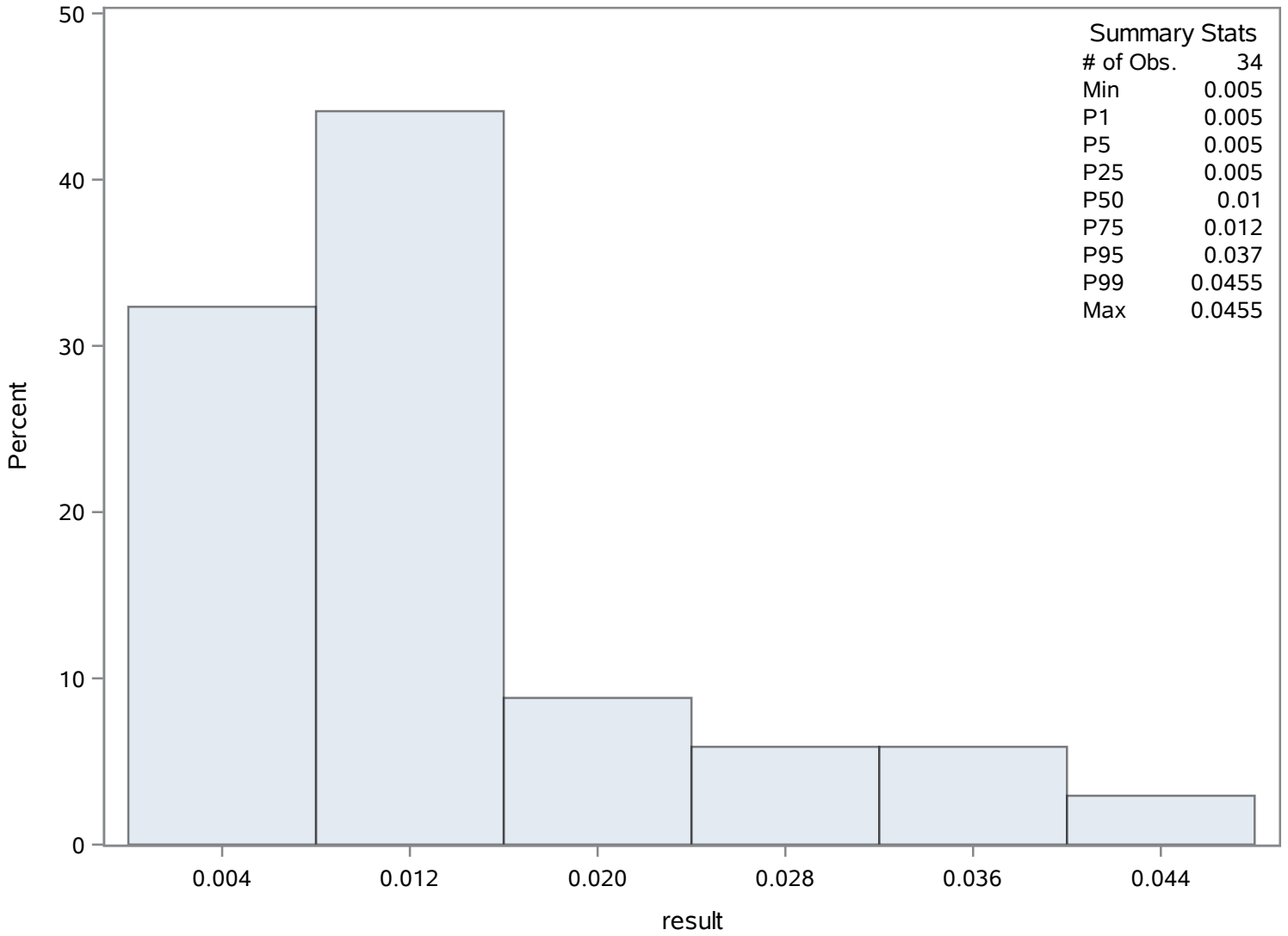
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	90	0.0270	67
0.005	89	0.0270	68
0.005	86	0.0340	87
0.005	85	0.0370	88
0.005	84	0.0455	79

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	33	Sum Weights	33
Mean	0.01022121	Sum Observations	0.3373
Std Deviation	0.00231486	Variance	5.3586E-6
Skewness	3.22049322	Kurtosis	15.1572365
Uncorrected SS	0.00361909	Corrected SS	0.00017148
Coeff Variation	22.6476533	Std Error Mean	0.00040297

Basic Statistical Measures			
Location		Variability	
Mean	0.010221	Std Deviation	0.00231
Median	0.010000	Variance	5.3586E-6
Mode	0.010000	Range	0.01400
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.36494	Pr > t 	<.0001
Sign	M	16.5	Pr >= M 	<.0001
Signed Rank	S	280.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.021
99%	0.021
95%	0.014
90%	0.011
75% Q3	0.010
50% Median	0.010
25% Q1	0.010
10%	0.008
5%	0.007
1%	0.007
0% Min	0.007

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	103	0.0103	127
0.007	102	0.0110	97
0.007	101	0.0120	109
0.008	99	0.0140	100
0.010	128	0.0210	98

Chassahowitzka River - Fixed Station

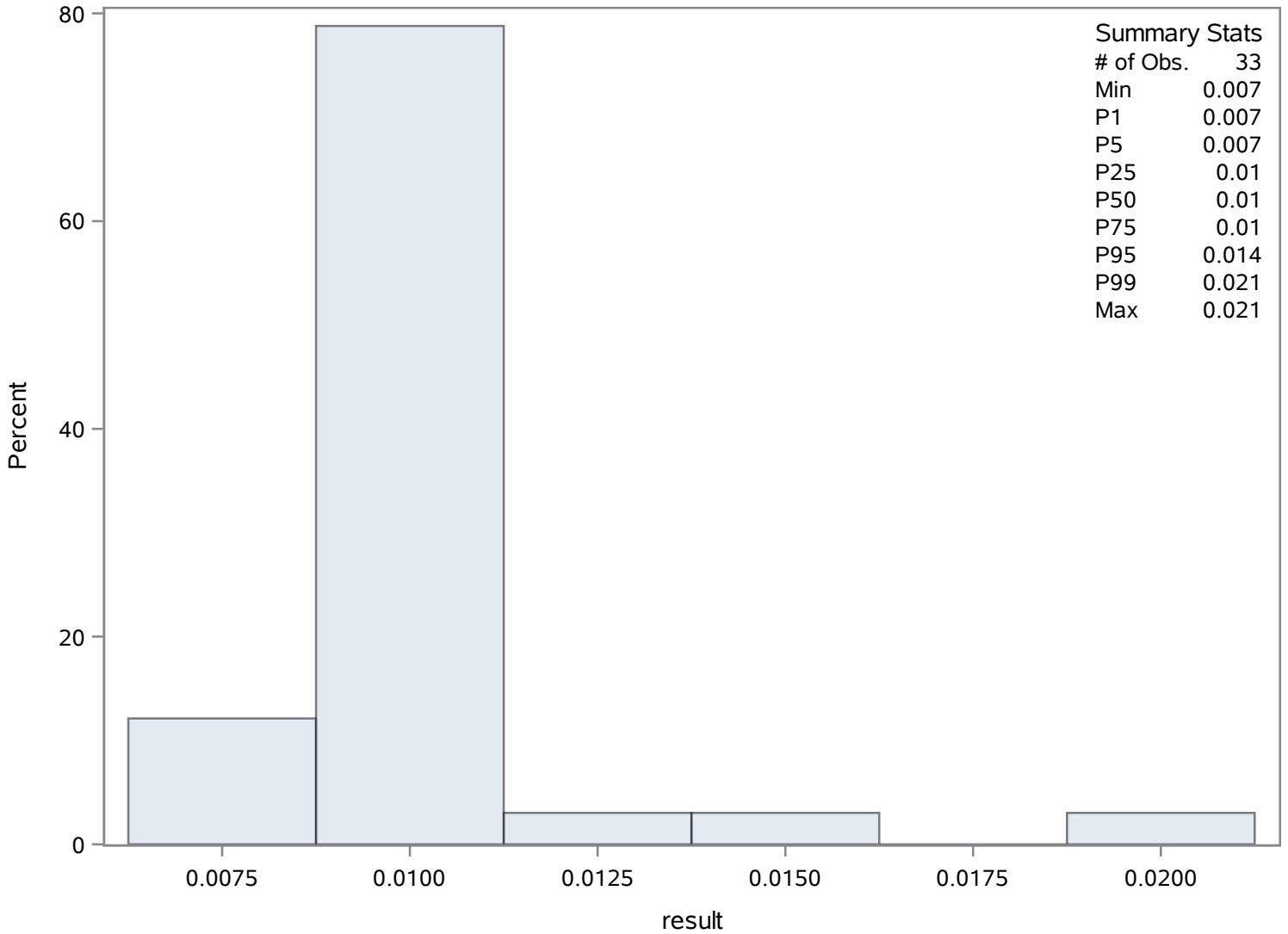
Source: Springs Data

Baird Spring

Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Summary Stats

# of Obs.	33
Min	0.007
P1	0.007
P5	0.007
P25	0.01
P50	0.01
P75	0.01
P95	0.014
P99	0.021
Max	0.021

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	66	Sum Weights	66
Mean	143.183333	Sum Observations	9450.1
Std Deviation	19.7431708	Variance	389.792795
Skewness	-1.0338223	Kurtosis	3.13955587
Uncorrected SS	1378433.35	Corrected SS	25336.5317
Coeff Variation	13.7887353	Std Error Mean	2.43021634

Basic Statistical Measures			
Location		Variability	
Mean	143.1833	Std Deviation	19.74317
Median	144.5000	Variance	389.79279
Mode	144.0000	Range	116.10000
		Interquartile Range	23.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	58.91794	Pr > t 	<.0001
Sign	M	33	Pr >= M 	<.0001
Signed Rank	S	1105.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	183.0
99%	183.0
95%	170.0
90%	166.0
75% Q3	155.0
50% Median	144.5
25% Q1	132.0
10%	122.0
5%	118.0
1%	66.9
0% Min	66.9

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
66.9	161	169	170
84.5	148	170	171
116.0	147	172	159
118.0	188	183	162
118.0	144	183	163

Chassahowitzka River - Fixed Station

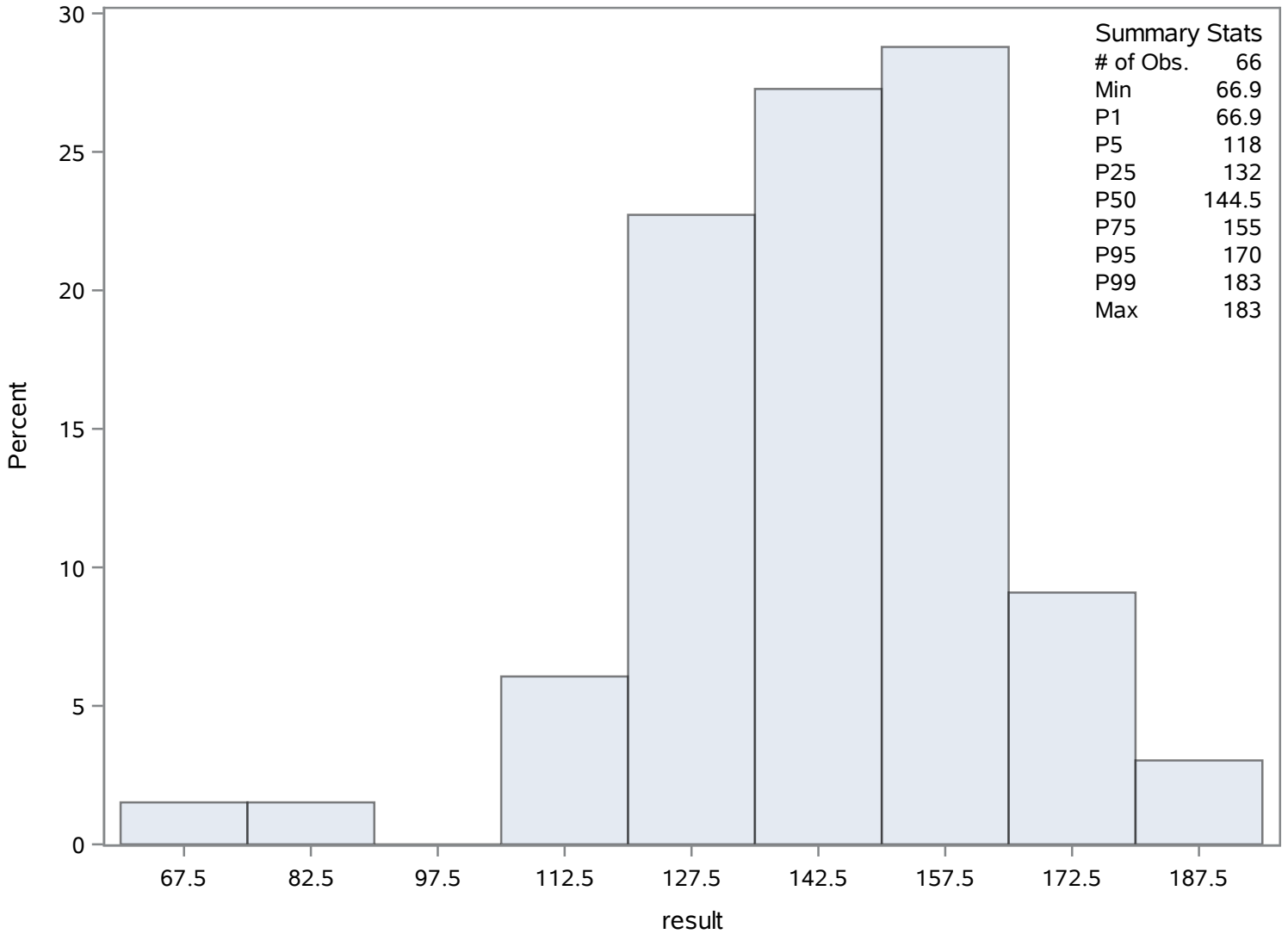
Source: Springs Data

Baird Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	0.60913433	Sum Observations	40.812
Std Deviation	0.3050076	Variance	0.09302963
Skewness	3.29410199	Kurtosis	13.2737472
Uncorrected SS	30.999946	Corrected SS	6.13995579
Coeff Variation	50.0723044	Std Error Mean	0.03726261

Basic Statistical Measures			
Location		Variability	
Mean	0.609134	Std Deviation	0.30501
Median	0.530000	Variance	0.09303
Mode	0.500000	Range	1.90000
		Interquartile Range	0.14000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.34707	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.200
99%	2.200
95%	1.216
90%	0.900
75% Q3	0.620
50% Median	0.530
25% Q1	0.480
10%	0.400
5%	0.349
1%	0.300
0% Min	0.300

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Carbon- Total Organic (Total) mg/L

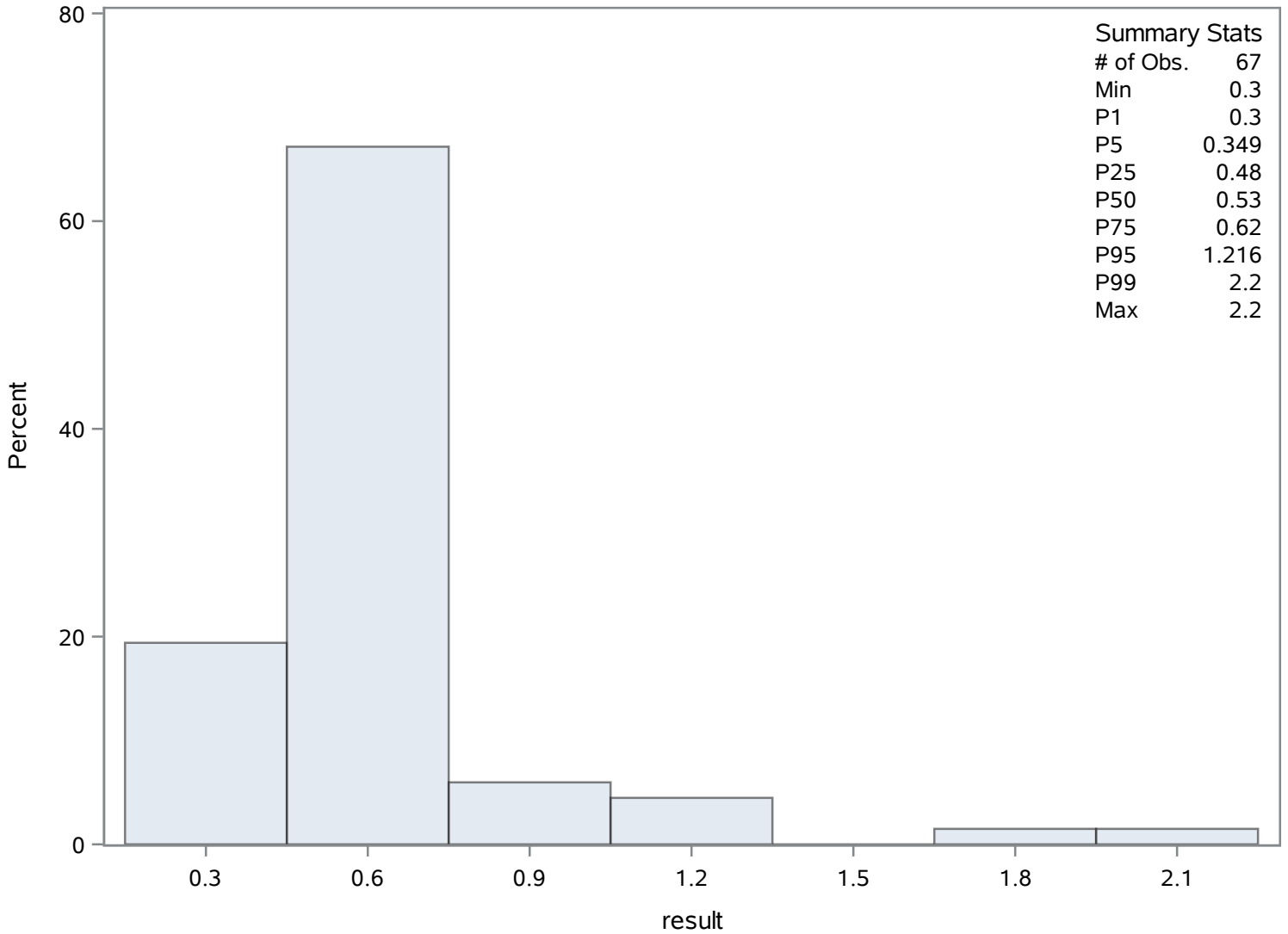
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.300	219	1.100	231
0.300	216	1.216	195
0.300	206	1.220	196
0.349	228	1.760	229
0.400	227	2.200	214

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	3792.84881	Sum Observations	254120.87
Std Deviation	579.99036	Variance	336388.818
Skewness	-0.9648467	Kurtosis	4.54621375
Uncorrected SS	986043700	Corrected SS	22201662
Coeff Variation	15.2916815	Std Error Mean	70.8571

Basic Statistical Measures			
Location		Variability	
Mean	3792.849	Std Deviation	579.99036
Median	3790.000	Variance	336389
Mode	3910.000	Range	3833
		Interquartile Range	610.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	53.52814	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5110.00
99%	5110.00
95%	4700.00
90%	4610.00
75% Q3	4070.00
50% Median	3790.00
25% Q1	3460.00
10%	3200.00
5%	3120.00
1%	1276.68
0% Min	1276.68

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Chloride (Dissolved) mg/L

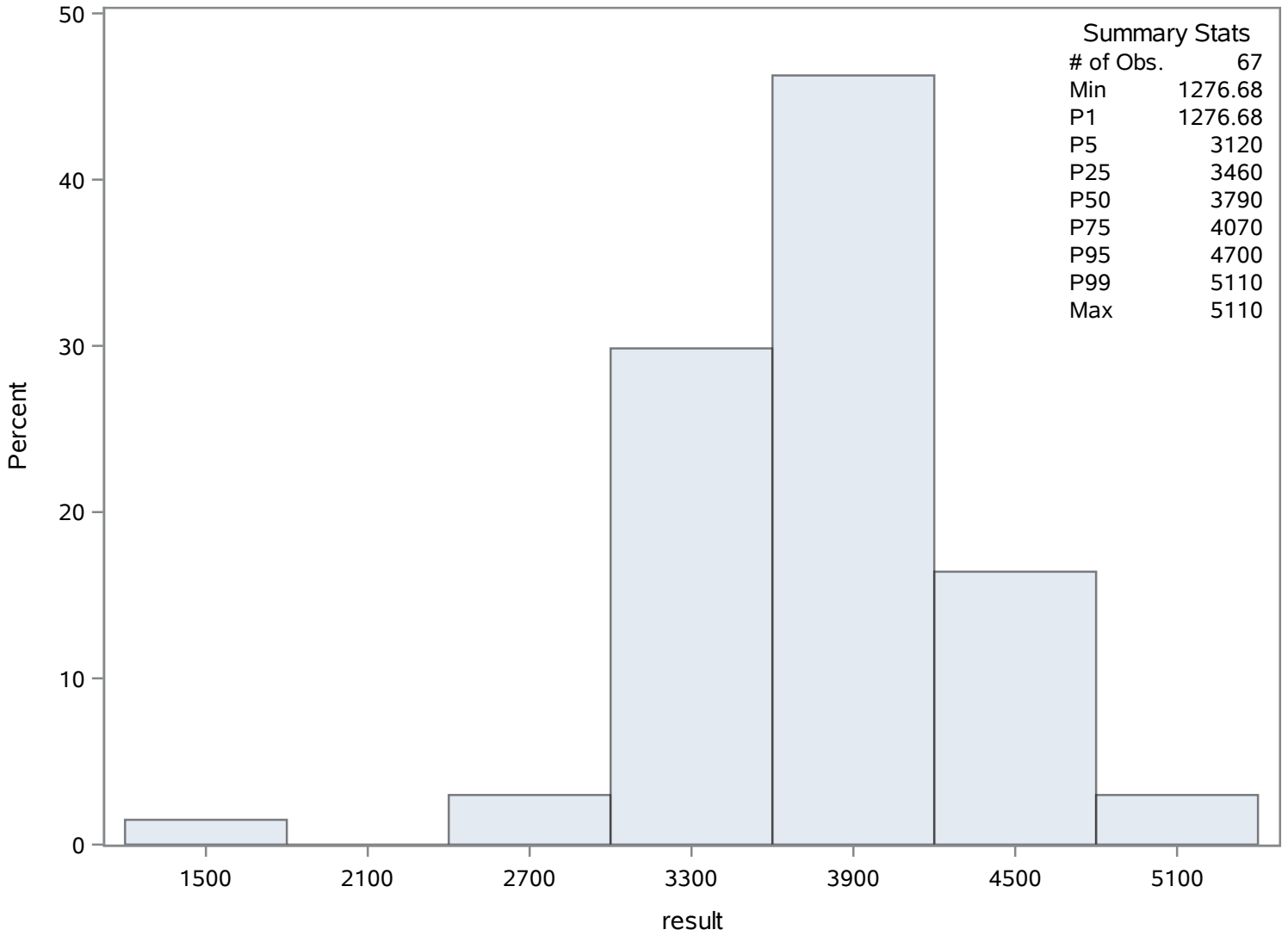
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1276.68	282	4630	304
2540.00	281	4700	300
2900.00	288	4720	328
3120.00	321	4890	296
3150.00	310	5110	297

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	30	Sum Weights	30
Mean	1.48	Sum Observations	44.4
Std Deviation	0.31666364	Variance	0.10027586
Skewness	1.04101686	Kurtosis	2.02453668
Uncorrected SS	68.62	Corrected SS	2.908
Coeff Variation	21.396192	Std Error Mean	0.05781461

Basic Statistical Measures			
Location		Variability	
Mean	1.480000	Std Deviation	0.31666
Median	1.400000	Variance	0.10028
Mode	1.400000	Range	1.50000
		Interquartile Range	0.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.59907	Pr > t 	<.0001
Sign	M	15	Pr >= M 	<.0001
Signed Rank	S	232.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.40
99%	2.40
95%	2.20
90%	1.85
75% Q3	1.60
50% Median	1.40
25% Q1	1.30
10%	1.15
5%	1.00
1%	0.90
0% Min	0.90

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.9	340	1.7	343
1.0	337	1.7	357
1.1	332	2.0	338
1.2	356	2.2	349
1.2	341	2.4	350

Chassahowitzka River - Fixed Station

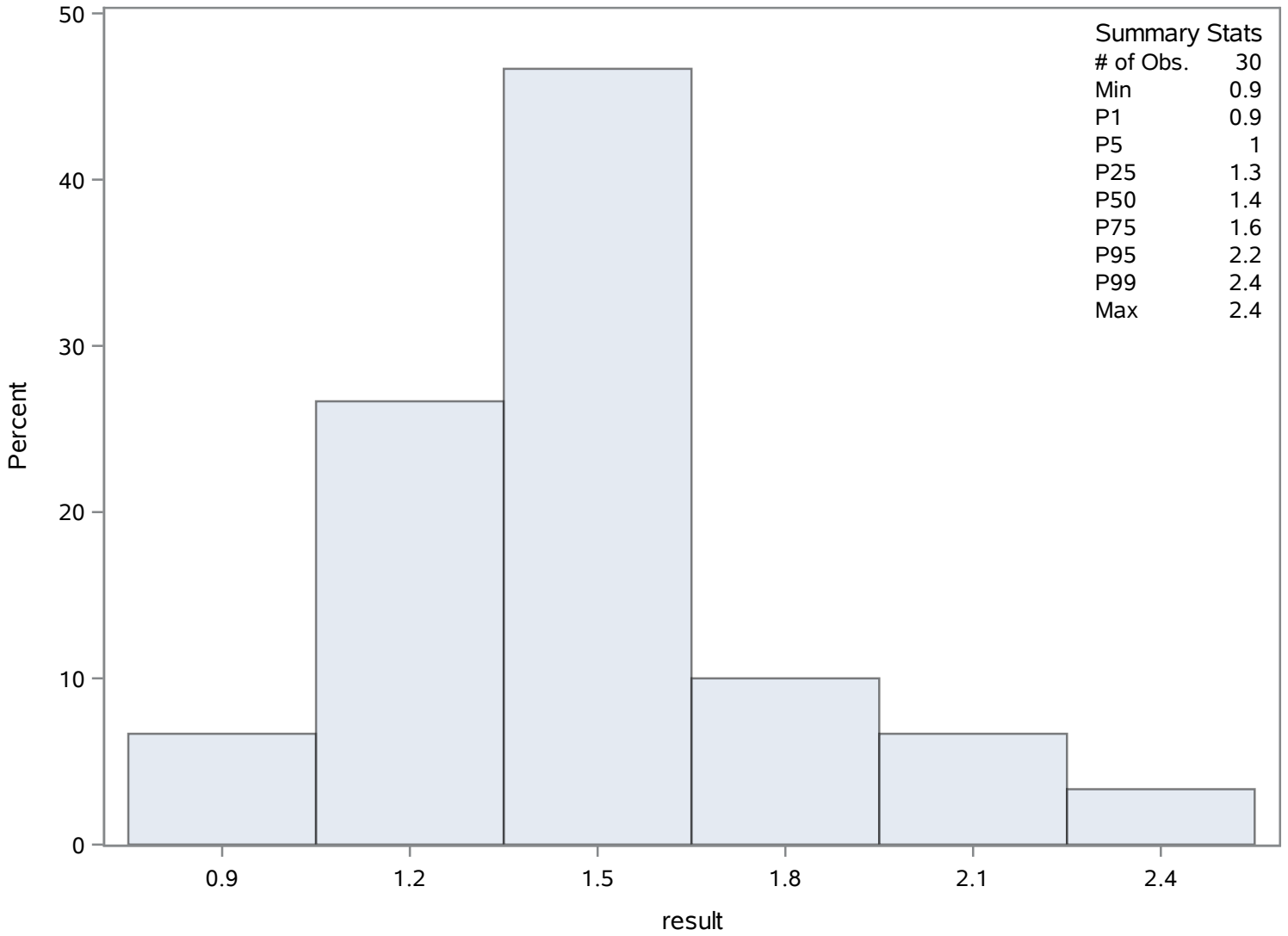
Source: Springs Data

Baird Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	50	Sum Weights	50
Mean	2.1856	Sum Observations	109.28
Std Deviation	1.22426514	Variance	1.49882514
Skewness	2.91275858	Kurtosis	10.5476426
Uncorrected SS	312.2848	Corrected SS	73.442432
Coeff Variation	56.0150597	Std Error Mean	0.17313724

Basic Statistical Measures			
Location		Variability	
Mean	2.185600	Std Deviation	1.22427
Median	1.890000	Variance	1.49883
Mode	2.460000	Range	7.24000
		Interquartile Range	0.86000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.62351	Pr > t 	<.0001
Sign	M	25	Pr >= M 	<.0001
Signed Rank	S	637.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.79
99%	7.79
95%	4.80
90%	2.92
75% Q3	2.46
50% Median	1.89
25% Q1	1.60
10%	1.30
5%	1.11
1%	0.55
0% Min	0.55

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Dissolved Oxygen (Total) mg/L

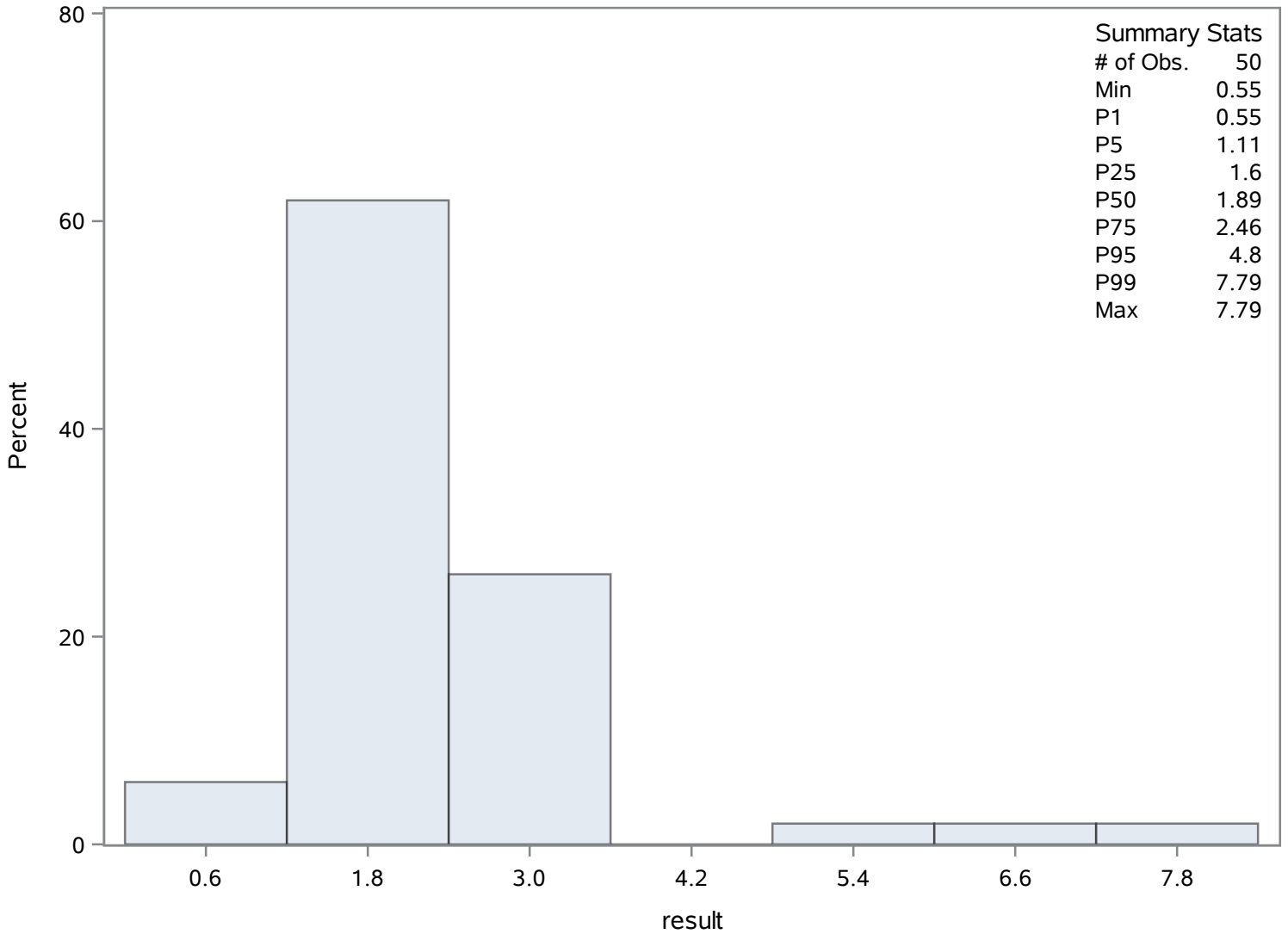
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.55	387	3.06	376
0.87	383	3.15	371
1.11	372	4.80	395
1.20	408	6.30	394
1.30	404	7.79	391

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	59	Sum Weights	59
Mean	0.17672881	Sum Observations	10.427
Std Deviation	0.026177	Variance	0.00068524
Skewness	-2.226246	Kurtosis	8.87641968
Uncorrected SS	1.882495	Corrected SS	0.03974366
Coeff Variation	14.8119616	Std Error Mean	0.00340796

Basic Statistical Measures			
Location		Variability	
Mean	0.176729	Std Deviation	0.02618
Median	0.180000	Variance	0.0006852
Mode	0.180000	Range	0.17000
		Interquartile Range	0.02000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	51.85772	Pr > t 	<.0001
Sign	M	29.5	Pr >= M 	<.0001
Signed Rank	S	885	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.220
99%	0.220
95%	0.210
90%	0.200
75% Q3	0.190
50% Median	0.180
25% Q1	0.170
10%	0.150
5%	0.135
1%	0.050
0% Min	0.050

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Fluoride (Dissolved) mg/L

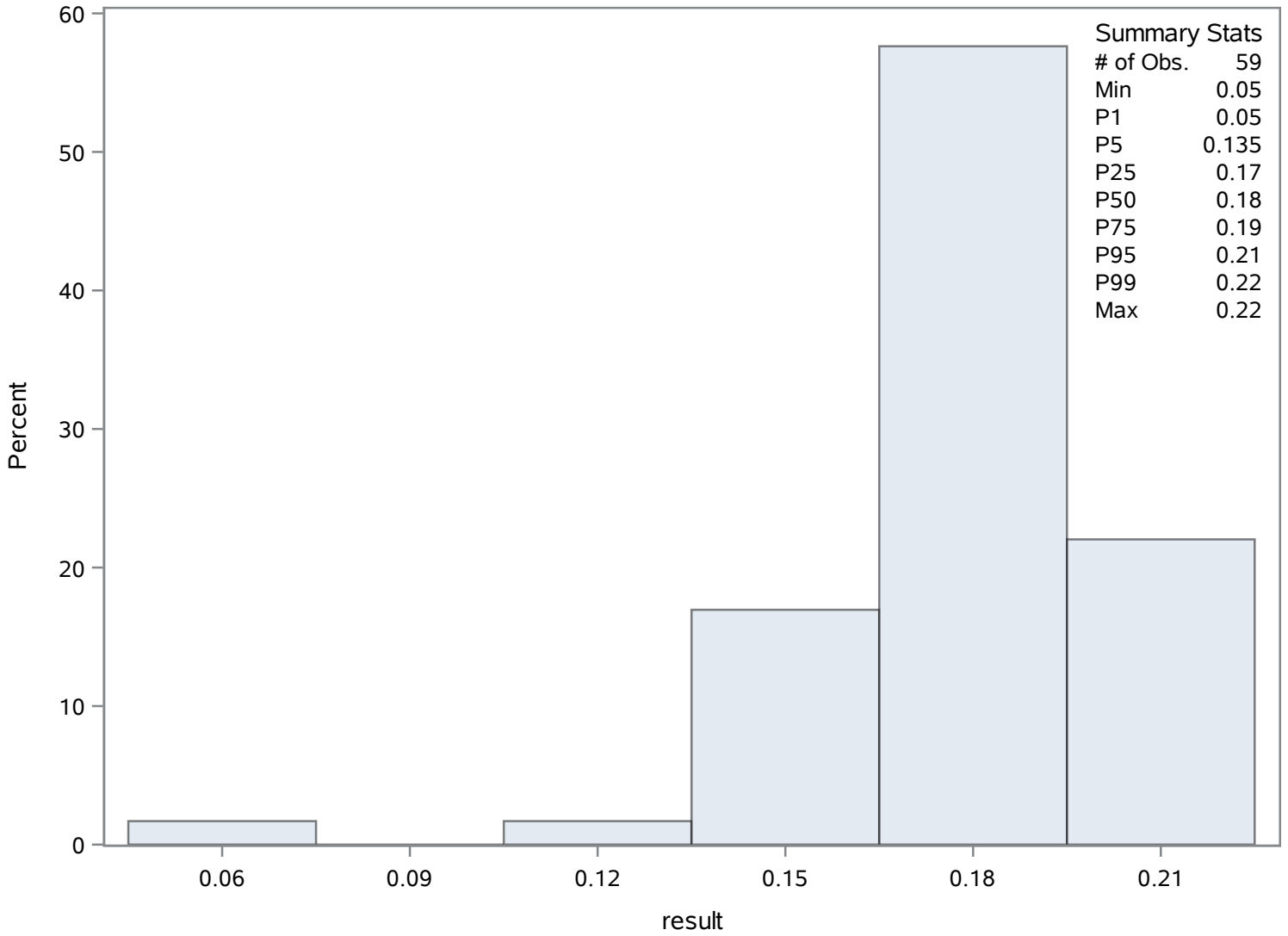
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	416	0.20	466
0.110	422	0.21	459
0.135	421	0.21	465
0.139	411	0.21	467
0.143	415	0.22	414

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	19.7329851	Sum Observations	1322.11
Std Deviation	25.0020502	Variance	625.102512
Skewness	2.16409579	Kurtosis	4.1284812
Uncorrected SS	67345.9427	Corrected SS	41256.7658
Coeff Variation	126.701815	Std Error Mean	3.05448658

Basic Statistical Measures			
Location		Variability	
Mean	19.73299	Std Deviation	25.00205
Median	12.50000	Variance	625.10251
Mode	5.60000	Range	101.50000
		Interquartile Range	24.40000

Note: The mode displayed is the smallest of 2 modes with a count of 14.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.460328	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	104.0
99%	104.0
95%	91.0
90%	60.0
75% Q3	30.0
50% Median	12.5
25% Q1	5.6
10%	2.5
5%	2.5

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	2.5
0% Min	2.5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.5	516	71	475
2.5	513	91	476
2.5	511	91	477
2.5	510	104	478
2.5	509	104	479

Chassahowitzka River - Fixed Station

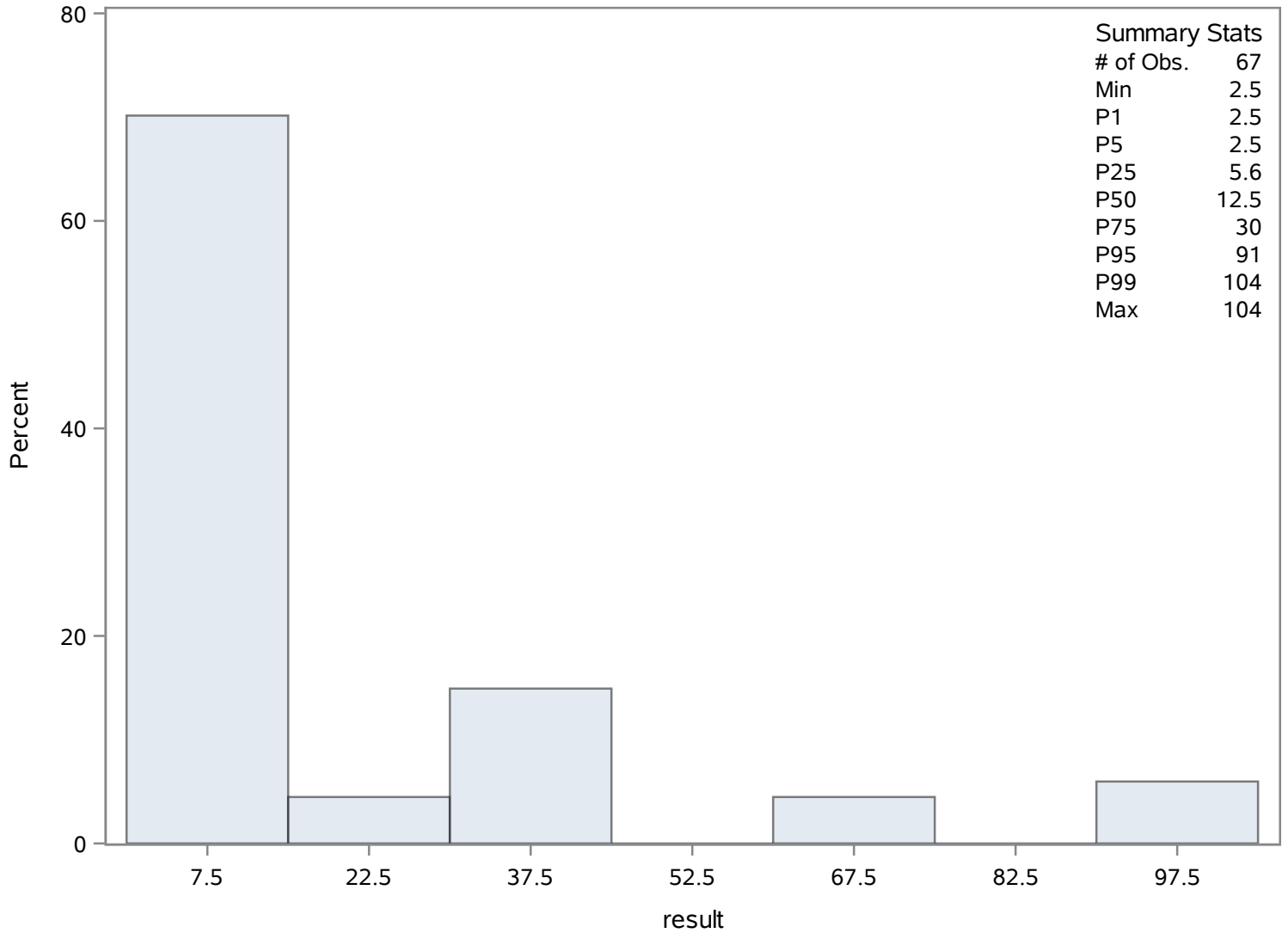
Source: Springs Data

Baird Spring

Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	248.7785	Sum Observations	14926.71
Std Deviation	42.8857893	Variance	1839.19092
Skewness	-1.1348991	Kurtosis	3.55578114
Uncorrected SS	3821956.79	Corrected SS	108512.264
Coeff Variation	17.2385432	Std Error Mean	5.53653159

Basic Statistical Measures			
Location		Variability	
Mean	248.7785	Std Deviation	42.88579
Median	250.0000	Variance	1839
Mode	250.0000	Range	238.20000
		Interquartile Range	40.00000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	44.934	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	327.0
99%	327.0
95%	315.0
90%	307.0
75% Q3	269.0
50% Median	250.0
25% Q1	229.0
10%	211.0
5%	183.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

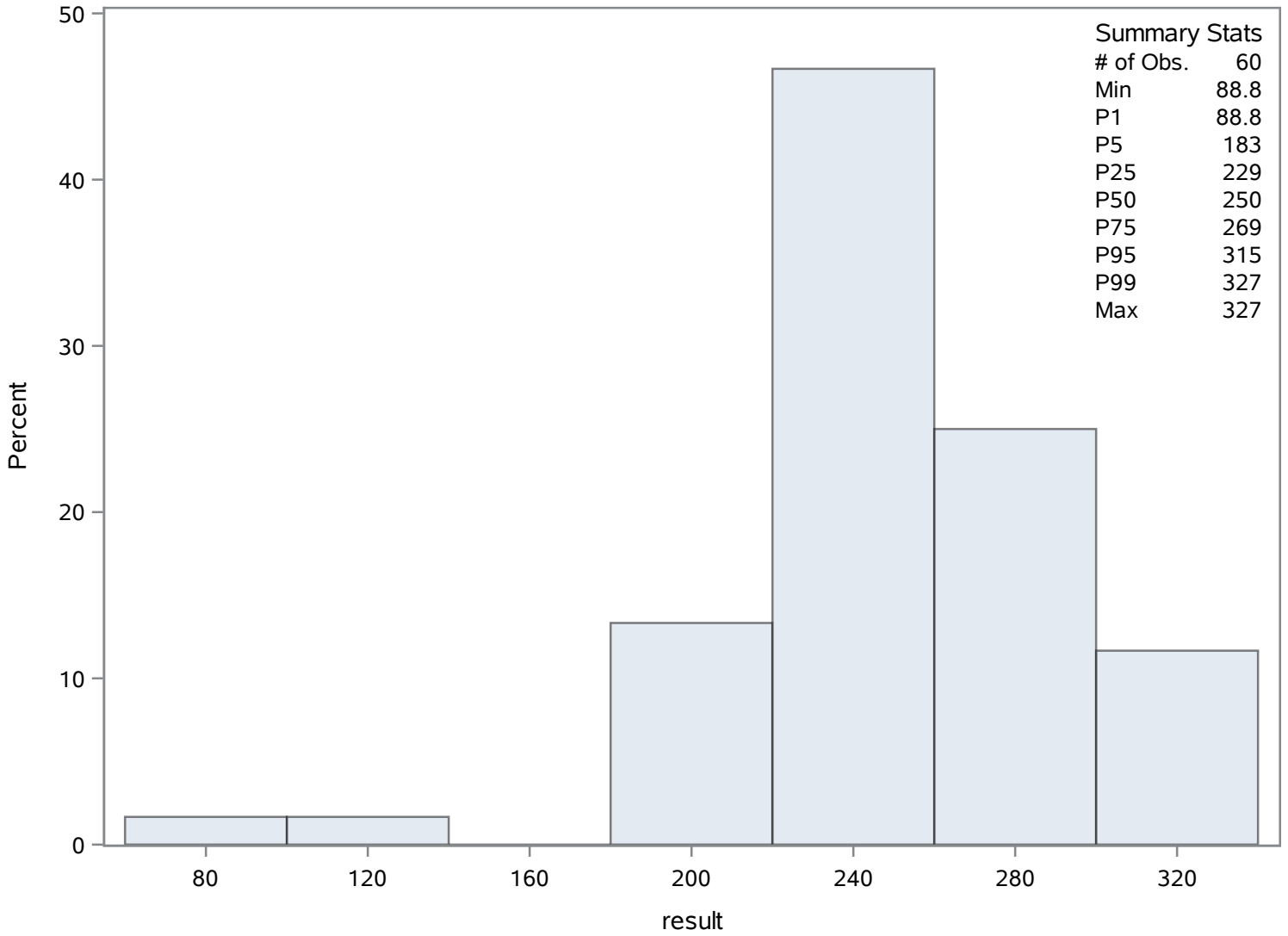
Quantiles (Definition 5)	
Level	Quantile
1%	88.8
0% Min	88.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
88.8	548	313	566
113.0	561	313	570
180.0	547	317	594
186.0	554	323	562
198.0	587	327	563

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	33	Sum Weights	33
Mean	0.22739394	Sum Observations	7.504
Std Deviation	0.03145924	Variance	0.00098968
Skewness	-0.733391	Kurtosis	1.4612128
Uncorrected SS	1.738034	Corrected SS	0.03166988
Coeff Variation	13.8346866	Std Error Mean	0.00547635

Basic Statistical Measures			
Location		Variability	
Mean	0.227394	Std Deviation	0.03146
Median	0.230000	Variance	0.0009897
Mode	0.201000	Range	0.15400
		Interquartile Range	0.04700

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	41.5229	Pr > t 	<.0001
Sign	M	16.5	Pr >= M 	<.0001
Signed Rank	S	280.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.283
99%	0.283
95%	0.272
90%	0.267
75% Q3	0.251
50% Median	0.230
25% Q1	0.204
10%	0.197
5%	0.188

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

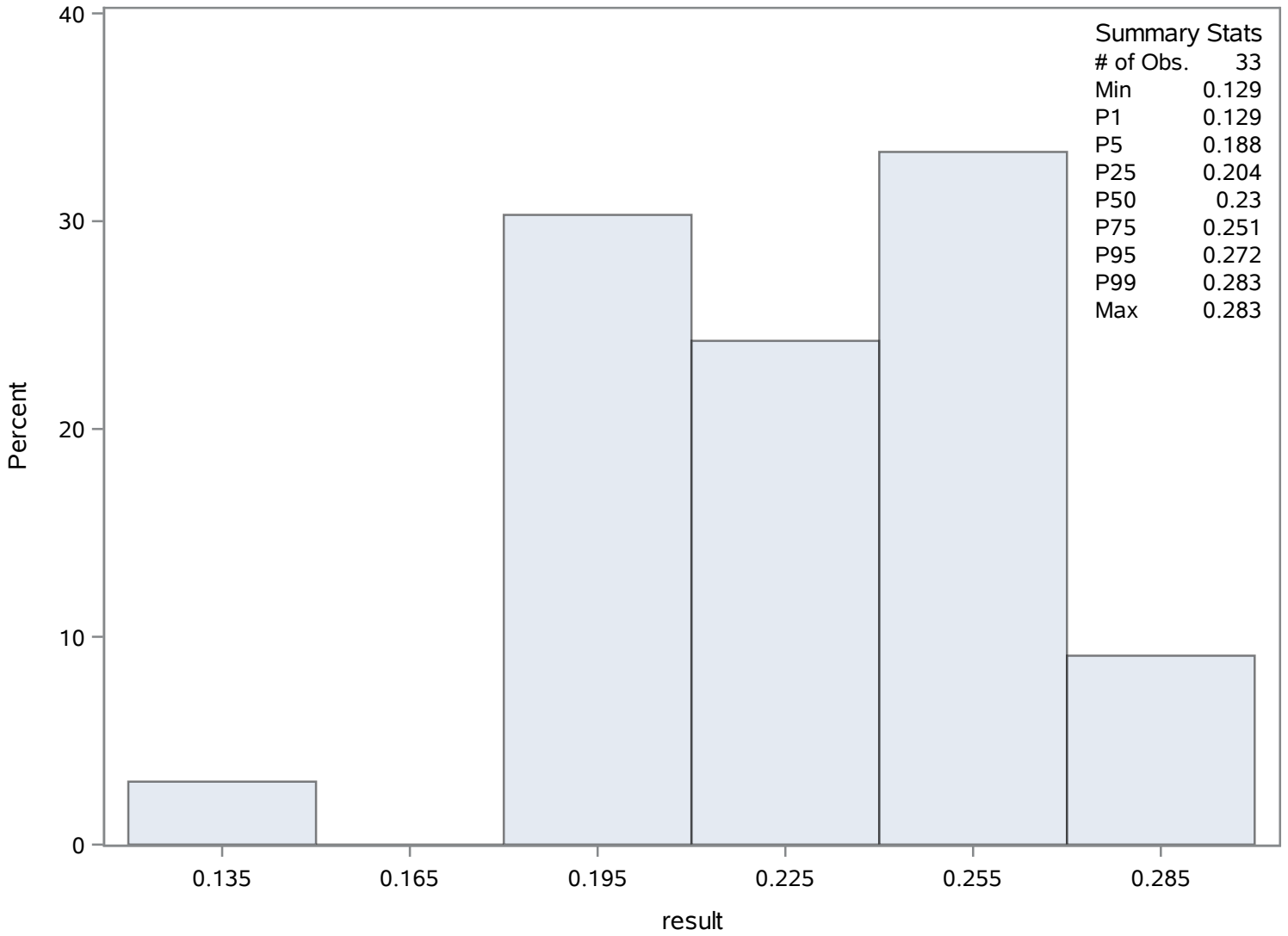
Quantiles (Definition 5)	
Level	Quantile
1%	0.129
0% Min	0.129

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.129	611	0.260	623
0.188	595	0.267	622
0.190	596	0.270	616
0.197	604	0.272	627
0.201	598	0.283	626

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	31	Sum Weights	31
Mean	0.28493548	Sum Observations	8.833
Std Deviation	0.02329225	Variance	0.00054253
Skewness	0.32027704	Kurtosis	1.01514577
Uncorrected SS	2.533111	Corrected SS	0.01627587
Coeff Variation	8.17457072	Std Error Mean	0.00418341

Basic Statistical Measures			
Location		Variability	
Mean	0.284935	Std Deviation	0.02329
Median	0.282000	Variance	0.0005425
Mode	0.281000	Range	0.11200
		Interquartile Range	0.02400

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	68.11079	Pr > t 	<.0001
Sign	M	15.5	Pr >= M 	<.0001
Signed Rank	S	248	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.340
99%	0.340
95%	0.333
90%	0.314
75% Q3	0.296
50% Median	0.282
25% Q1	0.272
10%	0.261
5%	0.252

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.228
0% Min	0.228

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.228	628	0.309	641
0.252	629	0.314	658
0.256	639	0.325	654
0.261	633	0.333	657
0.266	638	0.340	656

Chassahowitzka River - Fixed Station

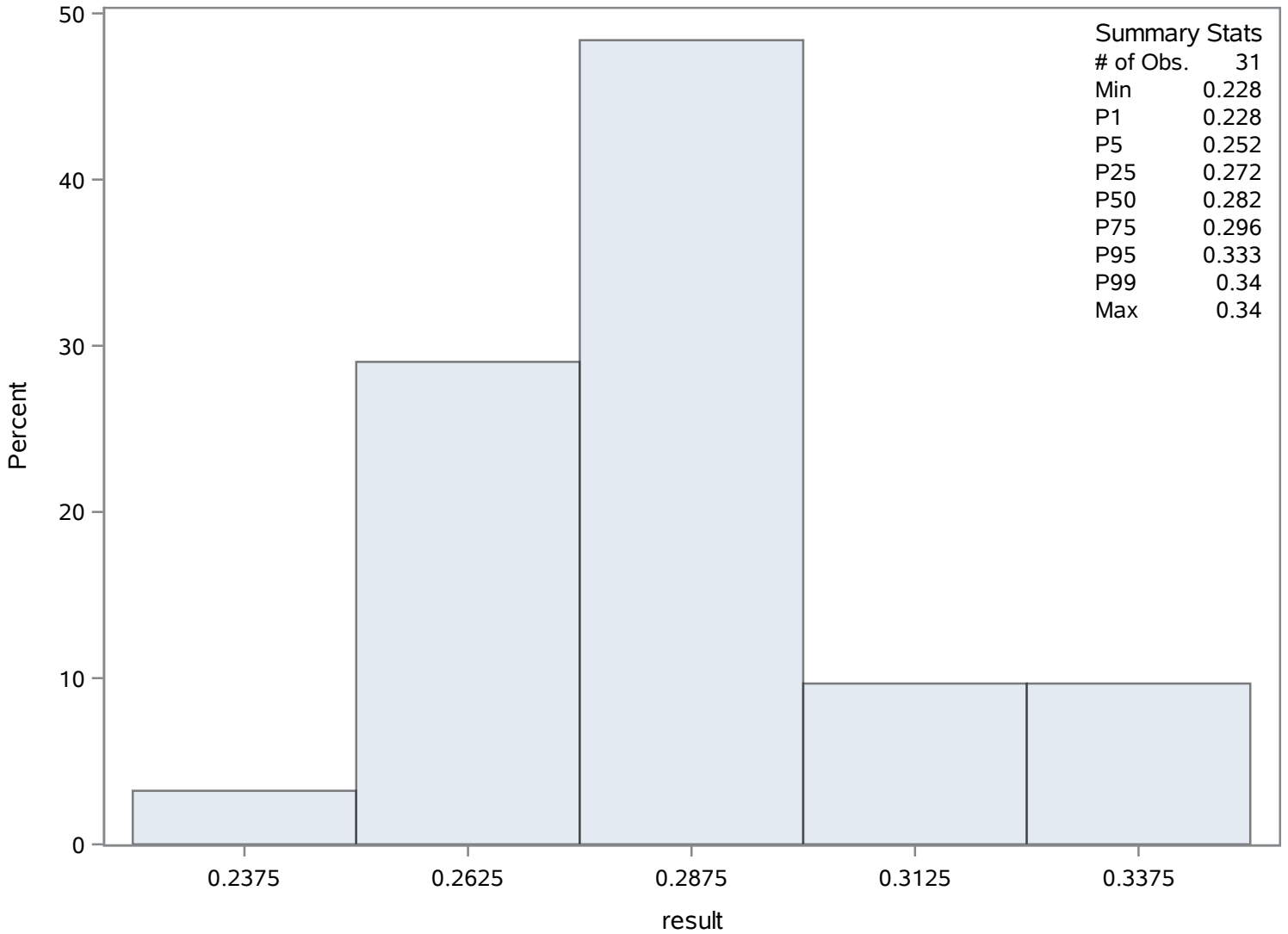
Source: Springs Data

Baird Spring

Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	26	Sum Weights	26
Mean	0.00517308	Sum Observations	0.1345
Std Deviation	0.00183816	Variance	3.37885E-6
Skewness	0.9305951	Kurtosis	3.2268135
Uncorrected SS	0.00078025	Corrected SS	0.00008447
Coeff Variation	35.5332779	Std Error Mean	0.00036049

Basic Statistical Measures			
Location		Variability	
Mean	0.005173	Std Deviation	0.00184
Median	0.005000	Variance	3.37885E-6
Mode	0.005000	Range	0.00900
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.34998	Pr > t 	<.0001
Sign	M	13	Pr >= M 	<.0001
Signed Rank	S	175.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0070
75% Q3	0.0050
50% Median	0.0050
25% Q1	0.0050
10%	0.0030
5%	0.0025
1%	0.0010
0% Min	0.0010

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Dissolved) mg/L

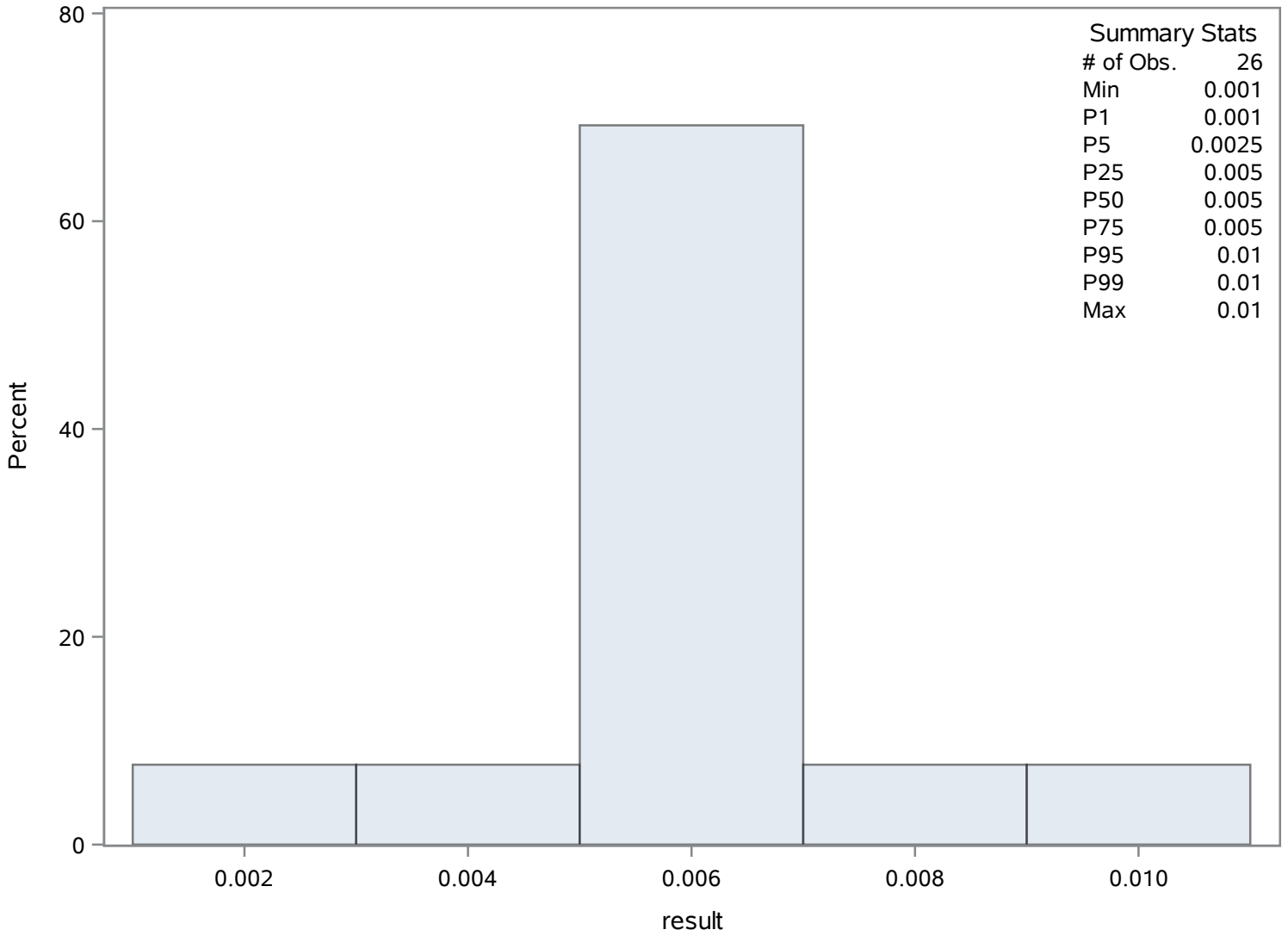
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0010	660	0.005	684
0.0025	665	0.007	663
0.0030	673	0.007	675
0.0040	664	0.010	661
0.0050	684	0.010	662

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	32	Sum Weights	32
Mean	0.00432813	Sum Observations	0.1385
Std Deviation	0.00164909	Variance	2.71951E-6
Skewness	2.66046361	Kurtosis	7.90064565
Uncorrected SS	0.00068375	Corrected SS	0.0000843
Coeff Variation	38.101776	Std Error Mean	0.00029152

Basic Statistical Measures			
Location		Variability	
Mean	0.004328	Std Deviation	0.00165
Median	0.004000	Variance	2.71951E-6
Mode	0.004000	Range	0.00750
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.84669	Pr > t 	<.0001
Sign	M	16	Pr >= M 	<.0001
Signed Rank	S	264	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0050
75% Q3	0.0040
50% Median	0.0040
25% Q1	0.0040
10%	0.0030
5%	0.0025
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	692	0.005	696
0.0025	691	0.005	704
0.0025	689	0.006	708
0.0030	693	0.010	685
0.0030	690	0.010	686

Chassahowitzka River - Fixed Station

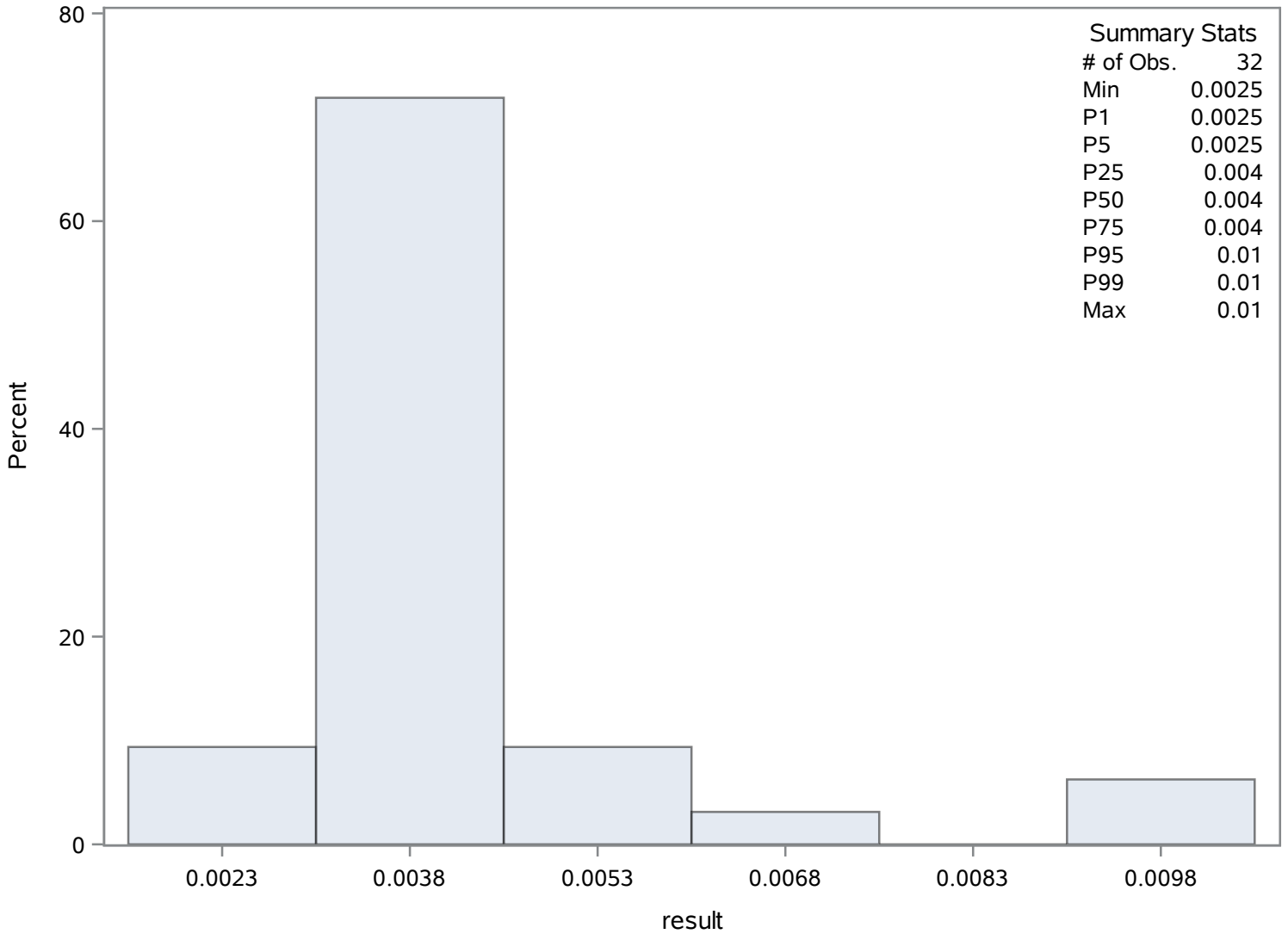
Source: Springs Data

Baird Spring

Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	0.33575676	Sum Observations	12.423
Std Deviation	0.0906769	Variance	0.0082223
Skewness	2.86506929	Kurtosis	8.99635472
Uncorrected SS	4.467109	Corrected SS	0.29600281
Coeff Variation	27.006724	Std Error Mean	0.01490719

Basic Statistical Measures			
Location		Variability	
Mean	0.335757	Std Deviation	0.09068
Median	0.310000	Variance	0.00822
Mode	0.290000	Range	0.42000
		Interquartile Range	0.06000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	22.52314	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.670
99%	0.670
95%	0.670
90%	0.400
75% Q3	0.350
50% Median	0.310
25% Q1	0.290
10%	0.270
5%	0.265
1%	0.250
0% Min	0.250

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.250	719	0.380	751
0.265	721	0.400	720
0.270	743	0.428	722
0.270	737	0.670	717
0.270	726	0.670	718

Chassahowitzka River - Fixed Station

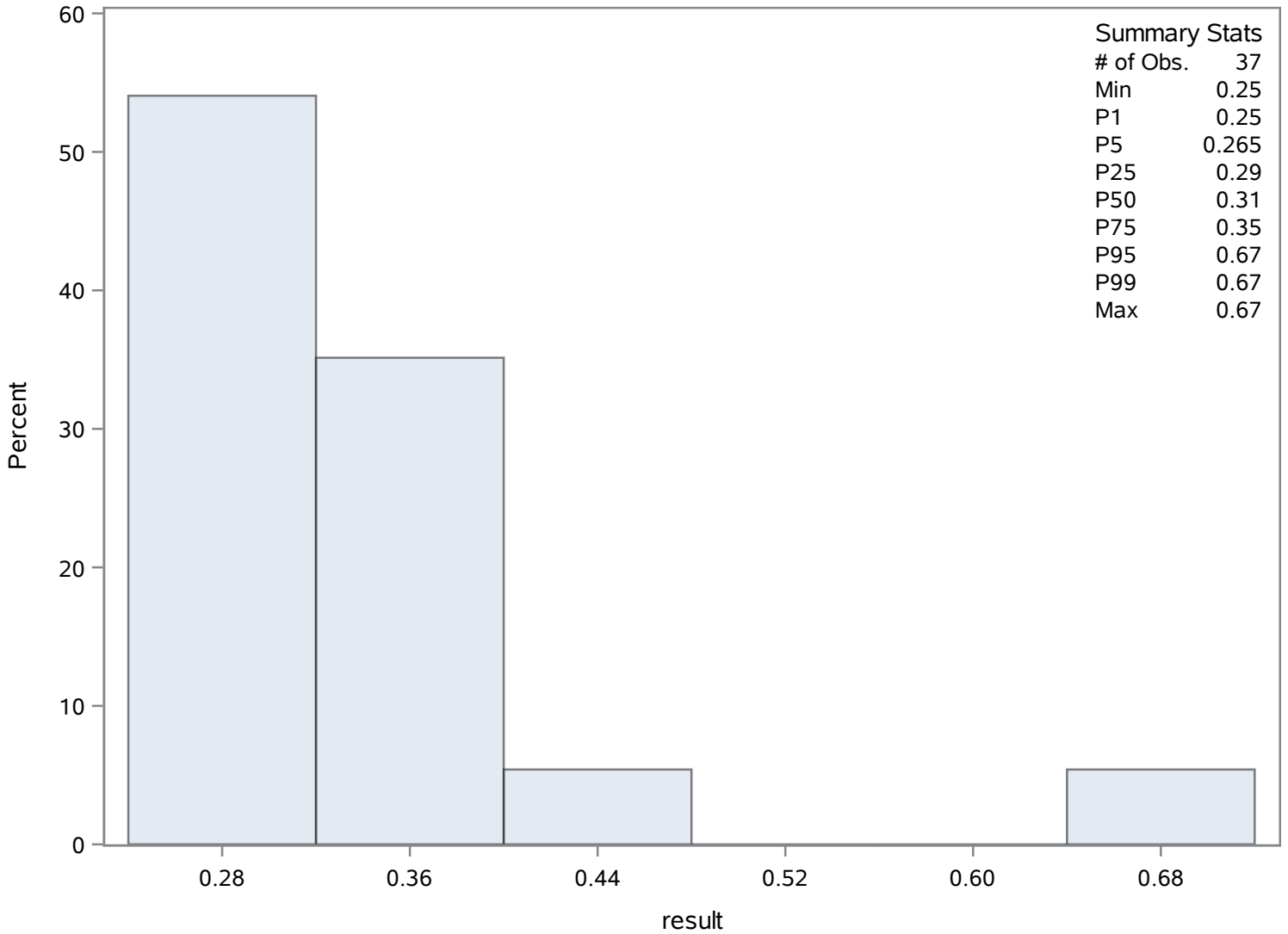
Source: Springs Data

Baird Spring

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	0.01471642	Sum Observations	0.986
Std Deviation	0.00487668	Variance	0.00002378
Skewness	1.84916063	Kurtosis	3.86246258
Uncorrected SS	0.01608	Corrected SS	0.00156961
Coeff Variation	33.1376775	Std Error Mean	0.00059578

Basic Statistical Measures			
Location		Variability	
Mean	0.014716	Std Deviation	0.00488
Median	0.013000	Variance	0.0000238
Mode	0.013000	Range	0.02500
		Interquartile Range	0.00400

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.70105	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.032
99%	0.032
95%	0.023
90%	0.022
75% Q3	0.016
50% Median	0.013
25% Q1	0.012
10%	0.011
5%	0.010
1%	0.007
0% Min	0.007

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Orthophosphate (P) (Dissolved) mg/L

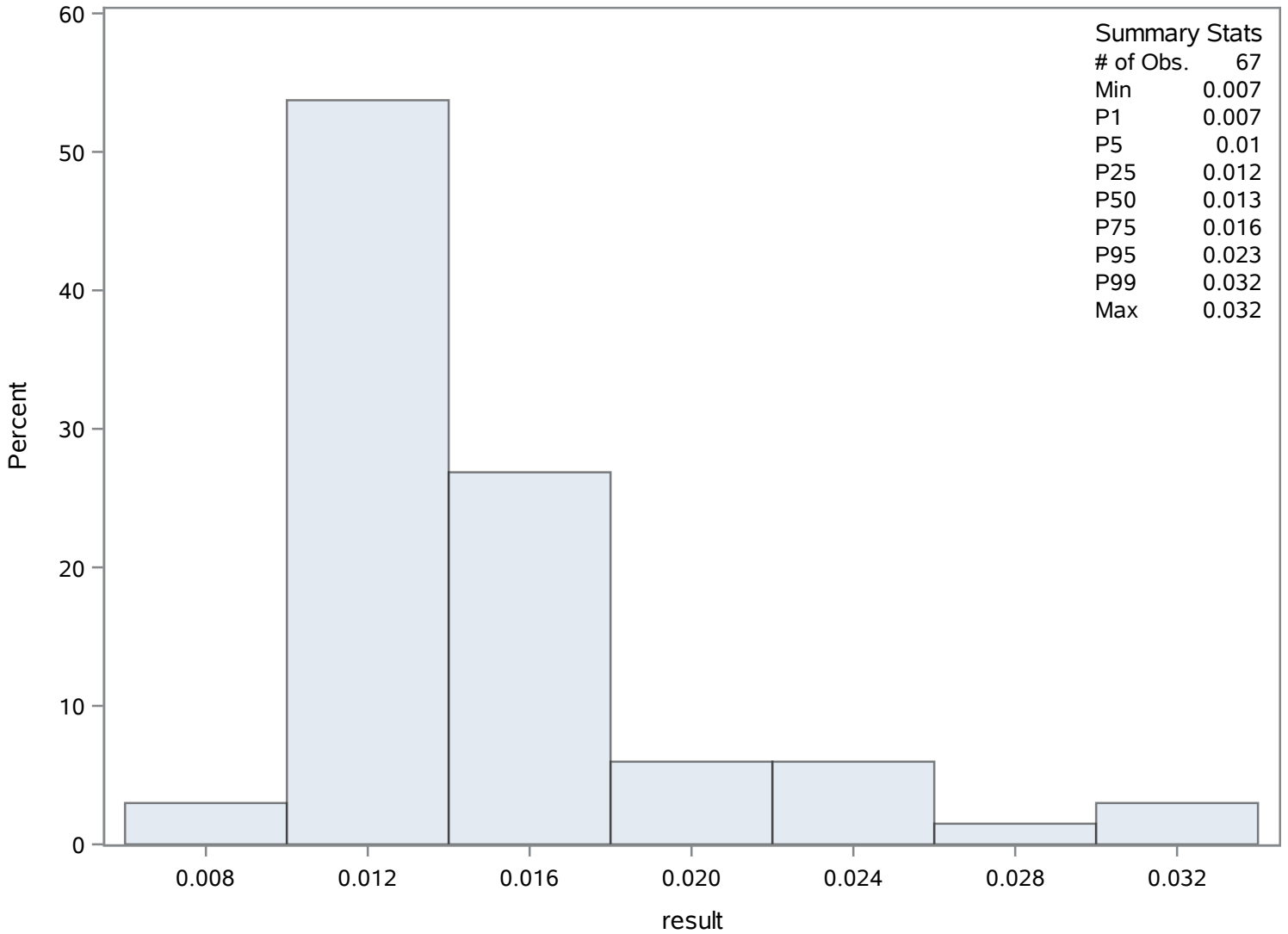
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	754	0.023	765
0.009	781	0.023	786
0.010	817	0.028	770
0.010	784	0.032	758
0.010	772	0.032	759

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	0.01988358	Sum Observations	1.3322
Std Deviation	0.00917534	Variance	0.00008419
Skewness	4.38685538	Kurtosis	27.9954009
Uncorrected SS	0.03204524	Corrected SS	0.00555633
Coeff Variation	46.1453025	Std Error Mean	0.00112095

Basic Statistical Measures			
Location		Variability	
Mean	0.019884	Std Deviation	0.00918
Median	0.018000	Variance	0.0000842
Mode	0.017000	Range	0.07500
		Interquartile Range	0.00600

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.73821	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.080
99%	0.080
95%	0.031
90%	0.026
75% Q3	0.022
50% Median	0.018
25% Q1	0.016
10%	0.014
5%	0.013
1%	0.005
0% Min	0.005

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Phosphorus- Total (Total) mg/L

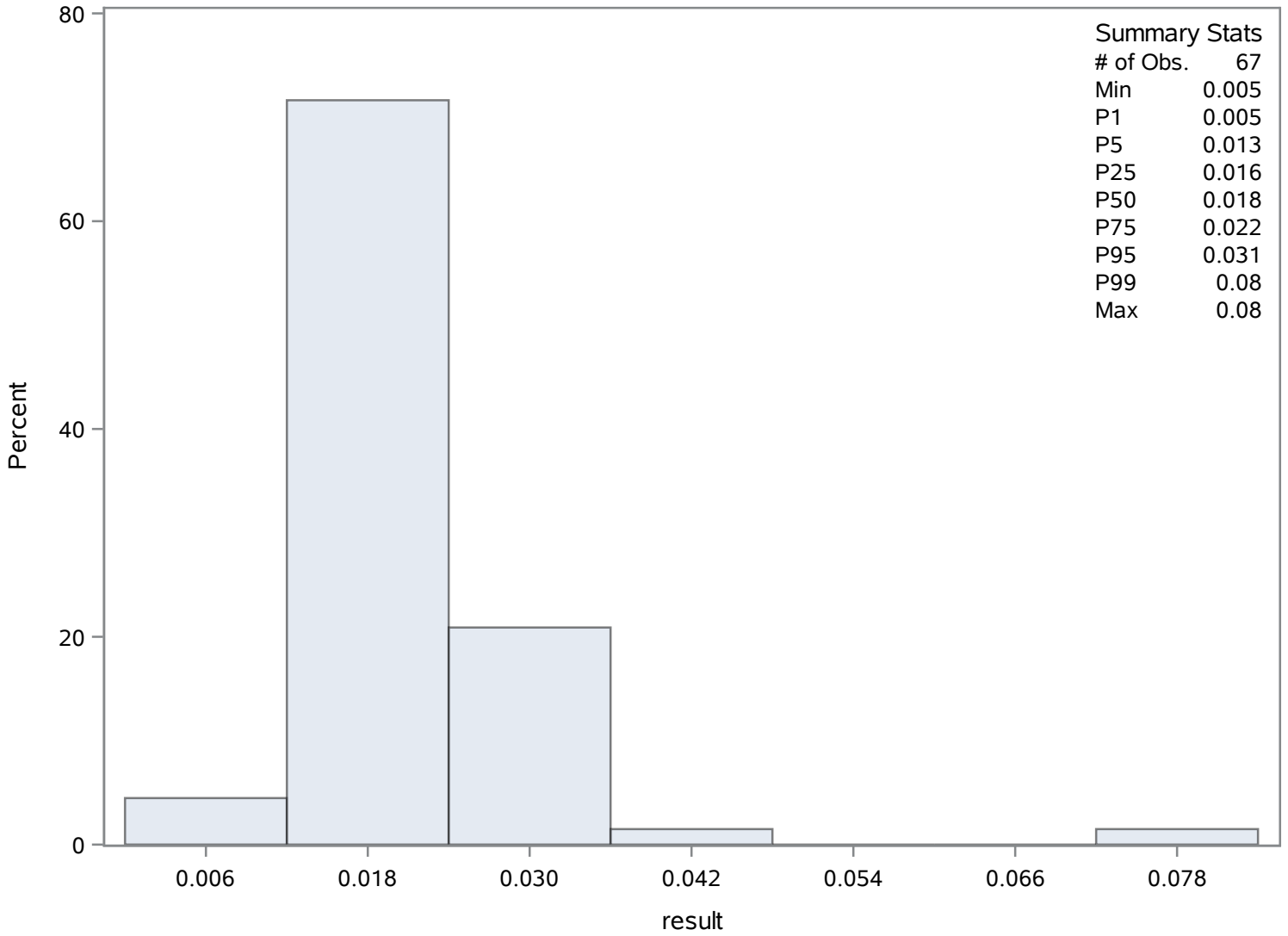
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0050	858	0.029	872
0.0050	821	0.031	875
0.0100	822	0.032	835
0.0130	842	0.036	849
0.0132	841	0.080	836

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	76.6775	Sum Observations	4600.65
Std Deviation	13.6322288	Variance	185.837663
Skewness	-1.0891084	Kurtosis	3.15964422
Uncorrected SS	363730.763	Corrected SS	10964.4221
Coeff Variation	17.7786559	Std Error Mean	1.75991318

Basic Statistical Measures			
Location		Variability	
Mean	76.67750	Std Deviation	13.63223
Median	76.90000	Variance	185.83766
Mode	89.70000	Range	80.00000
		Interquartile Range	16.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	43.56891	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	108.00
99%	108.00
95%	94.70
90%	91.10
75% Q3	85.95
50% Median	76.90
25% Q1	69.95
10%	62.70
5%	54.85
1%	28.00
0% Min	28.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Potassium (Dissolved) mg/L

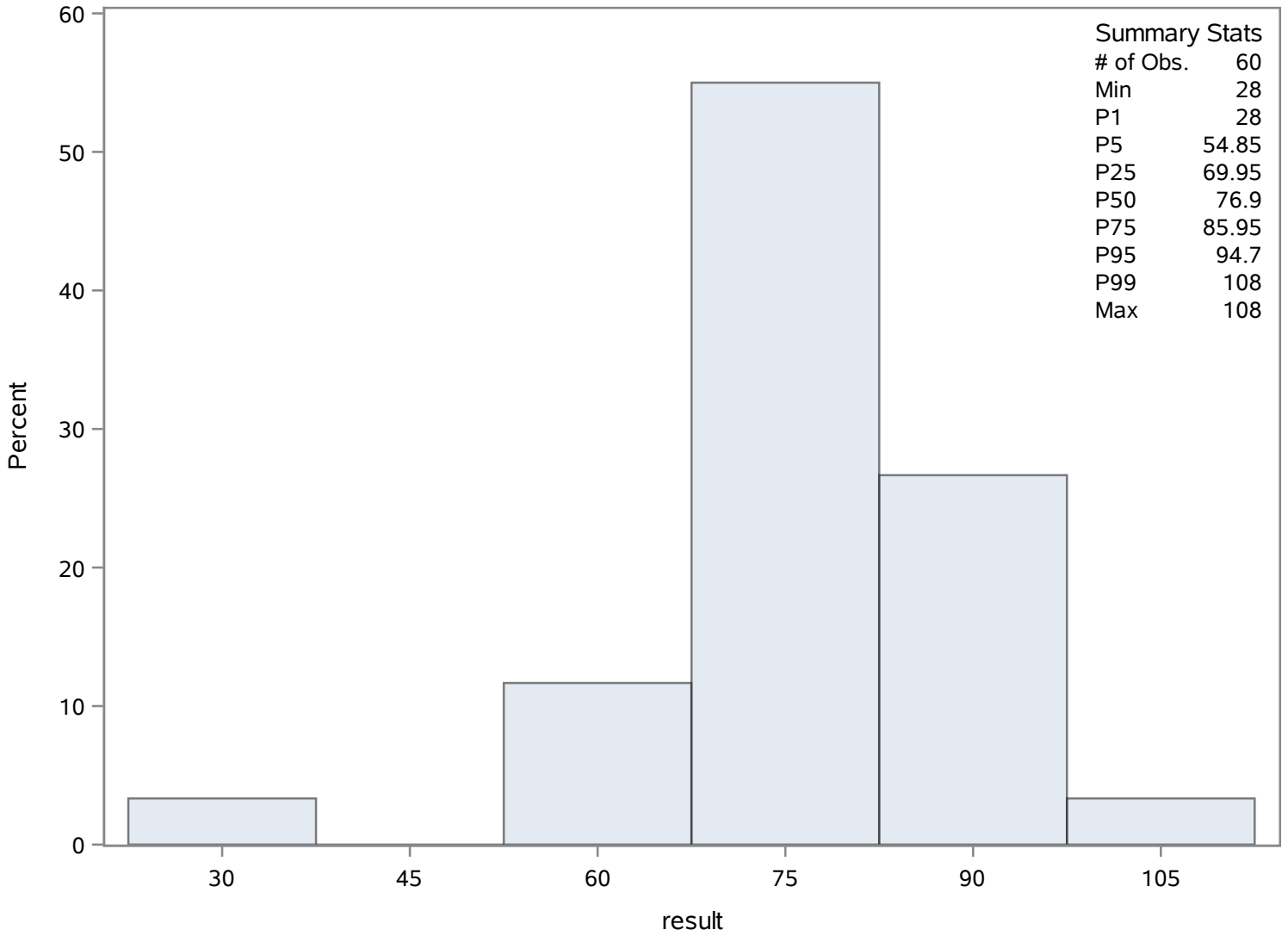
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
28.0	901	92.7	931
33.1	914	94.1	911
54.2	900	95.3	947
55.5	907	98.4	915
60.2	928	108.0	916

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	64	Sum Weights	64
Mean	6913.3125	Sum Observations	442452
Std Deviation	1350.87526	Variance	1824863.96
Skewness	-1.7673812	Kurtosis	7.02916795
Uncorrected SS	3173775372	Corrected SS	114966430
Coeff Variation	19.5402025	Std Error Mean	168.859407

Basic Statistical Measures			
Location		Variability	
Mean	6913.313	Std Deviation	1351
Median	7020.000	Variance	1824864
Mode	7020.000	Range	8500
		Interquartile Range	1225

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	40.94123	Pr > t 	<.0001
Sign	M	32	Pr >= M 	<.0001
Signed Rank	S	1040	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9290
99%	9290
95%	8750
90%	8580
75% Q3	7580
50% Median	7020
25% Q1	6355
10%	5930
5%	5260

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

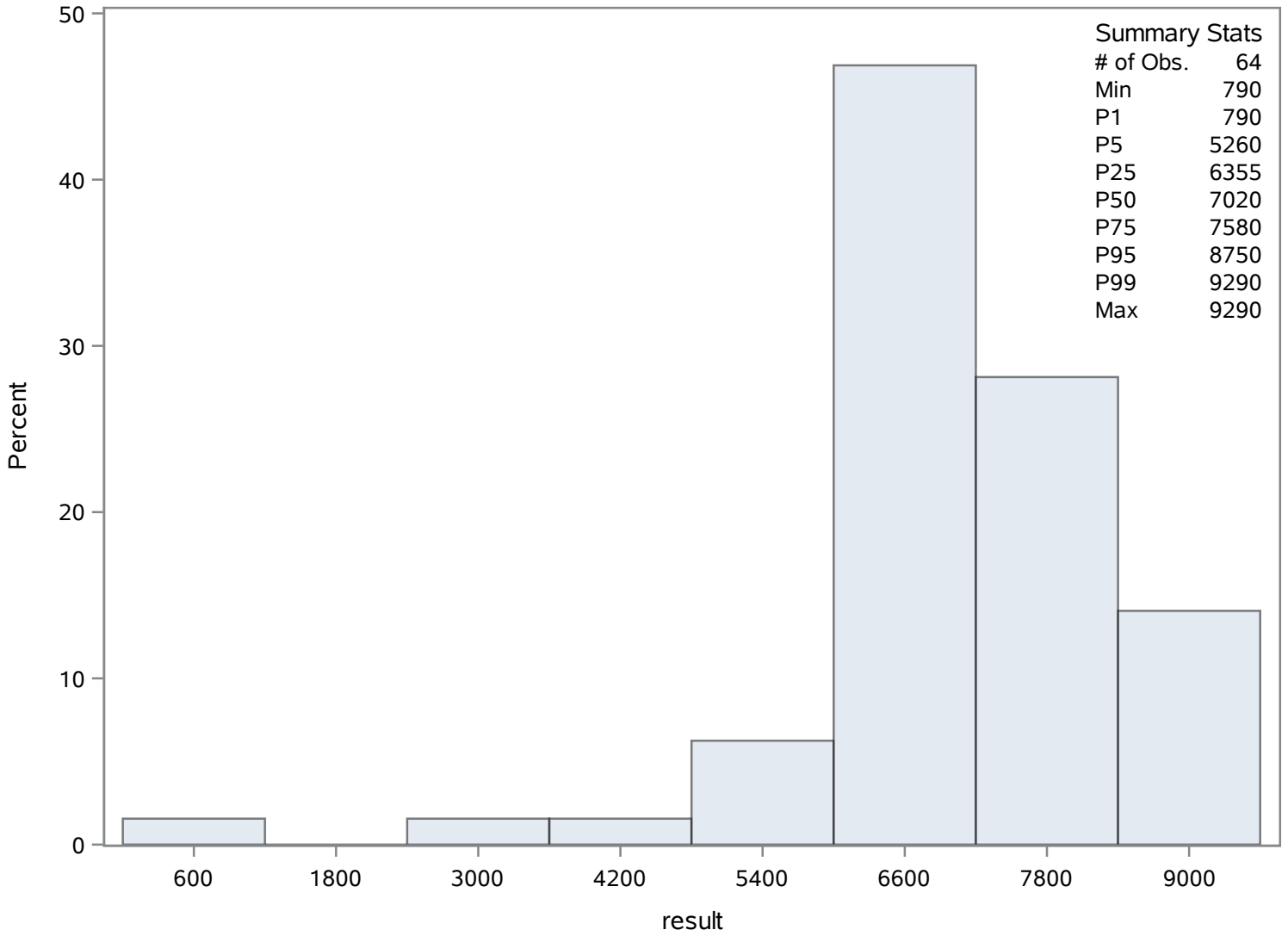
Quantiles (Definition 5)	
Level	Quantile
1%	790
0% Min	790

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
790	982	8730	987
2536	968	8750	986
4770	967	8830	988
5260	971	9140	979
5626	962	9290	980

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	50	Sum Weights	50
Mean	8.125234	Sum Observations	406.2617
Std Deviation	0.21560848	Variance	0.04648701
Skewness	0.60247946	Kurtosis	5.57531877
Uncorrected SS	3303.24924	Corrected SS	2.27786371
Coeff Variation	2.65356635	Std Error Mean	0.03049164

Basic Statistical Measures			
Location		Variability	
Mean	8.125234	Std Deviation	0.21561
Median	8.150000	Variance	0.04649
Mode	8.200000	Range	1.50000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	266.4741	Pr > t 	<.0001
Sign	M	25	Pr >= M 	<.0001
Signed Rank	S	637.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.0000
99%	9.0000
95%	8.3033
90%	8.3000
75% Q3	8.2000
50% Median	8.1500
25% Q1	8.0000
10%	7.8792
5%	7.8000
1%	7.5000
0% Min	7.5000

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Silica- Dissolved (Dissolved) mg/L

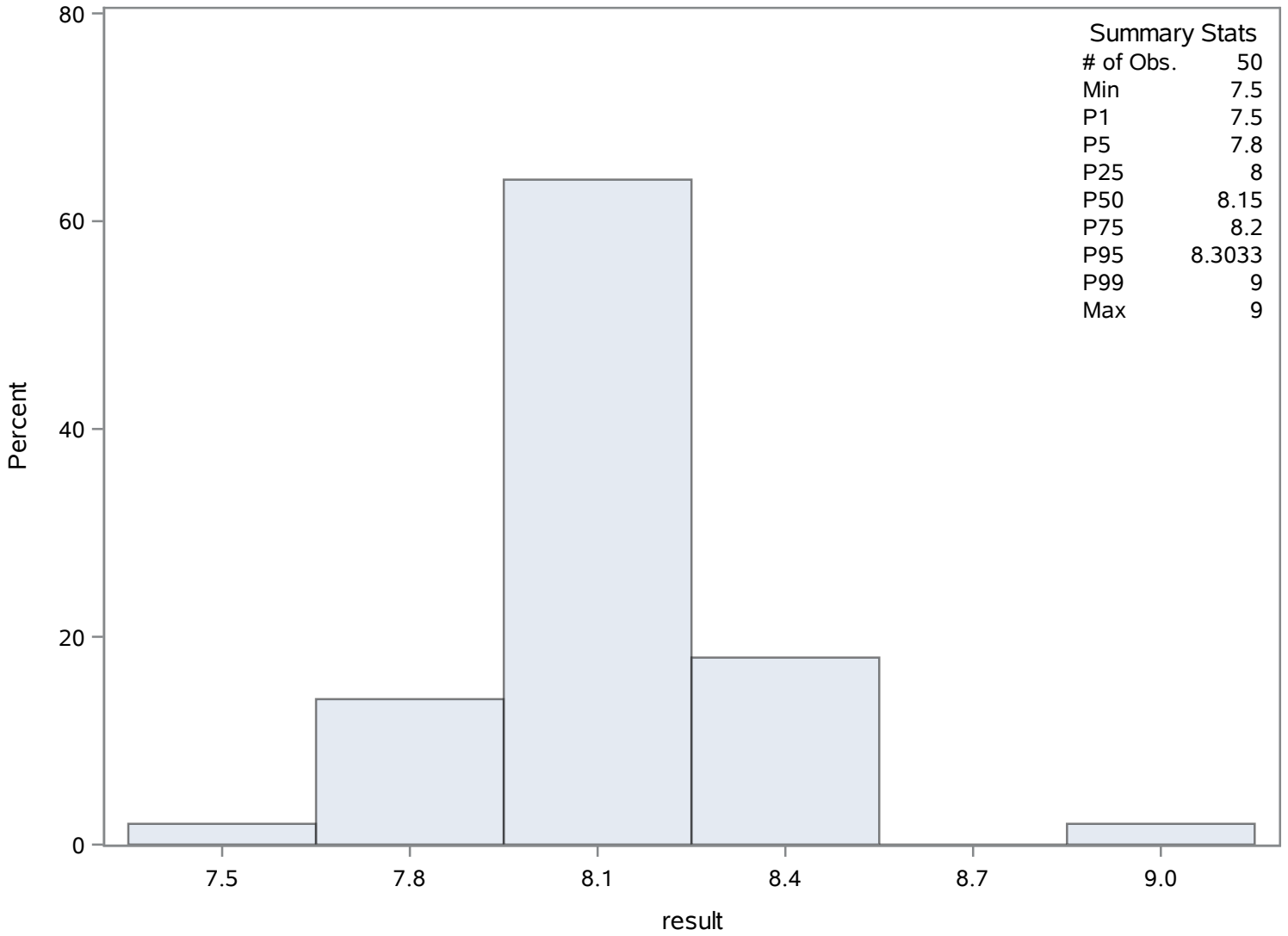
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.5000	1047	8.3000	1033
7.7000	1052	8.3000	1035
7.8000	1051	8.3033	1017
7.8000	1050	8.4000	1024
7.8584	1014	9.0000	1048

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	2073.1725	Sum Observations	124390.35
Std Deviation	331.839226	Variance	110117.272
Skewness	-1.0003554	Kurtosis	4.07913155
Uncorrected SS	264379572	Corrected SS	6496919.04
Coeff Variation	16.006349	Std Error Mean	42.8402598

Basic Statistical Measures			
Location		Variability	
Mean	2073.173	Std Deviation	331.83923
Median	2095.000	Variance	110117
Mode	2140.000	Range	2089
		Interquartile Range	295.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	48.39309	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2800
99%	2800
95%	2550
90%	2500
75% Q3	2220
50% Median	2095
25% Q1	1925
10%	1735
5%	1560
1%	711
0% Min	711

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
711	1075	2510	1121
1360	1074	2520	1098
1500	1081	2580	1097
1620	1114	2750	1090
1680	1102	2800	1089

Chassahowitzka River - Fixed Station

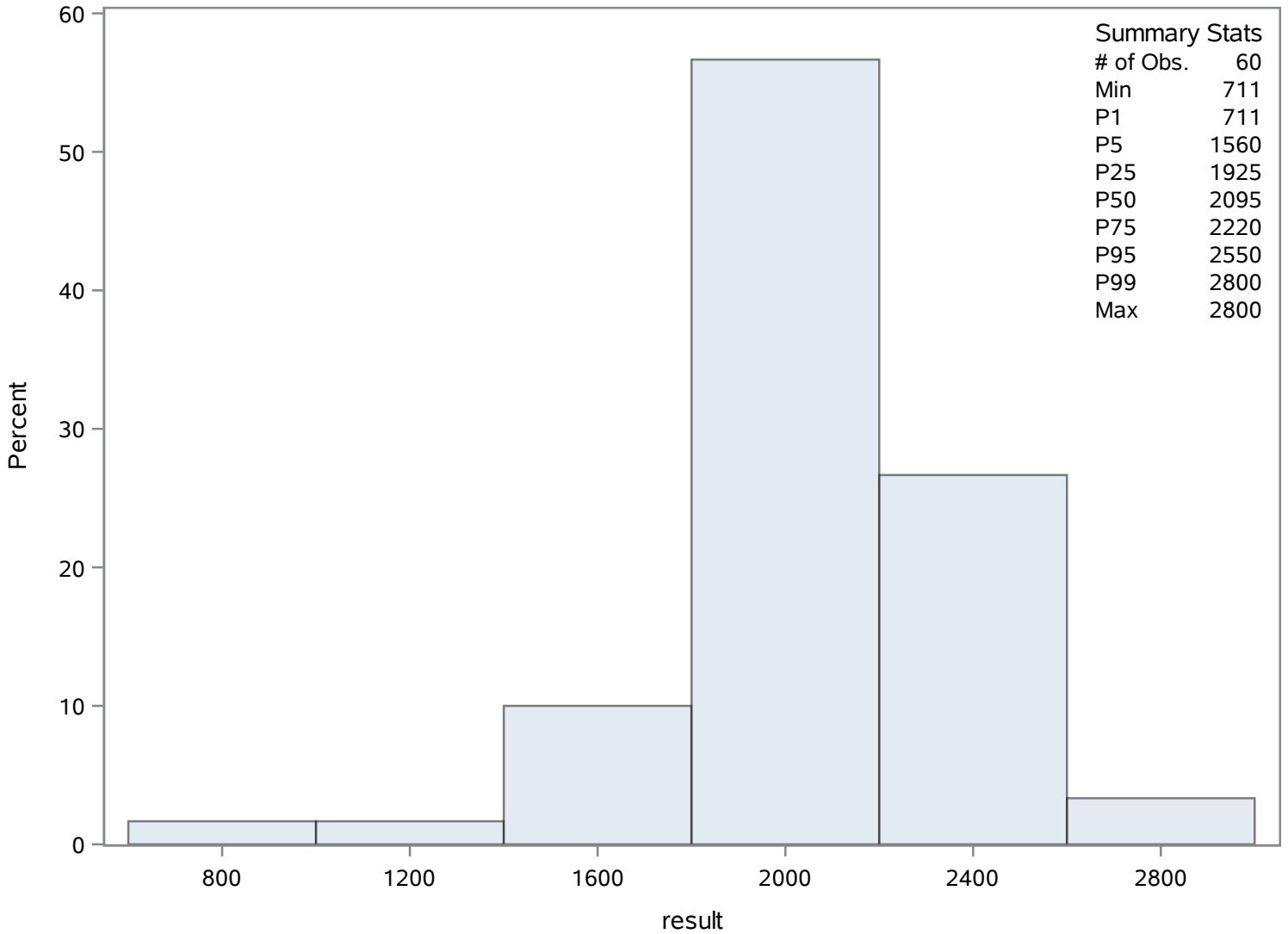
Source: Springs Data

Baird Spring

Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	115	Sum Weights	115
Mean	12307.153	Sum Observations	1415322.6
Std Deviation	2081.74535	Variance	4333663.68
Skewness	-0.6103893	Kurtosis	3.08499925
Uncorrected SS	1.79126E10	Corrected SS	494037660
Coeff Variation	16.9149221	Std Error Mean	194.123754

Basic Statistical Measures			
Location		Variability	
Mean	12307.15	Std Deviation	2082
Median	12301.00	Variance	4333664
Mode	10700.00	Range	14370
		Interquartile Range	2500

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	63.39849	Pr > t 	<.0001
Sign	M	57.5	Pr >= M 	<.0001
Signed Rank	S	3335	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	19000.0
99%	16271.0
95%	15609.3
90%	14910.0
75% Q3	13600.0
50% Median	12301.0
25% Q1	11100.0
10%	10390.0
5%	9258.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

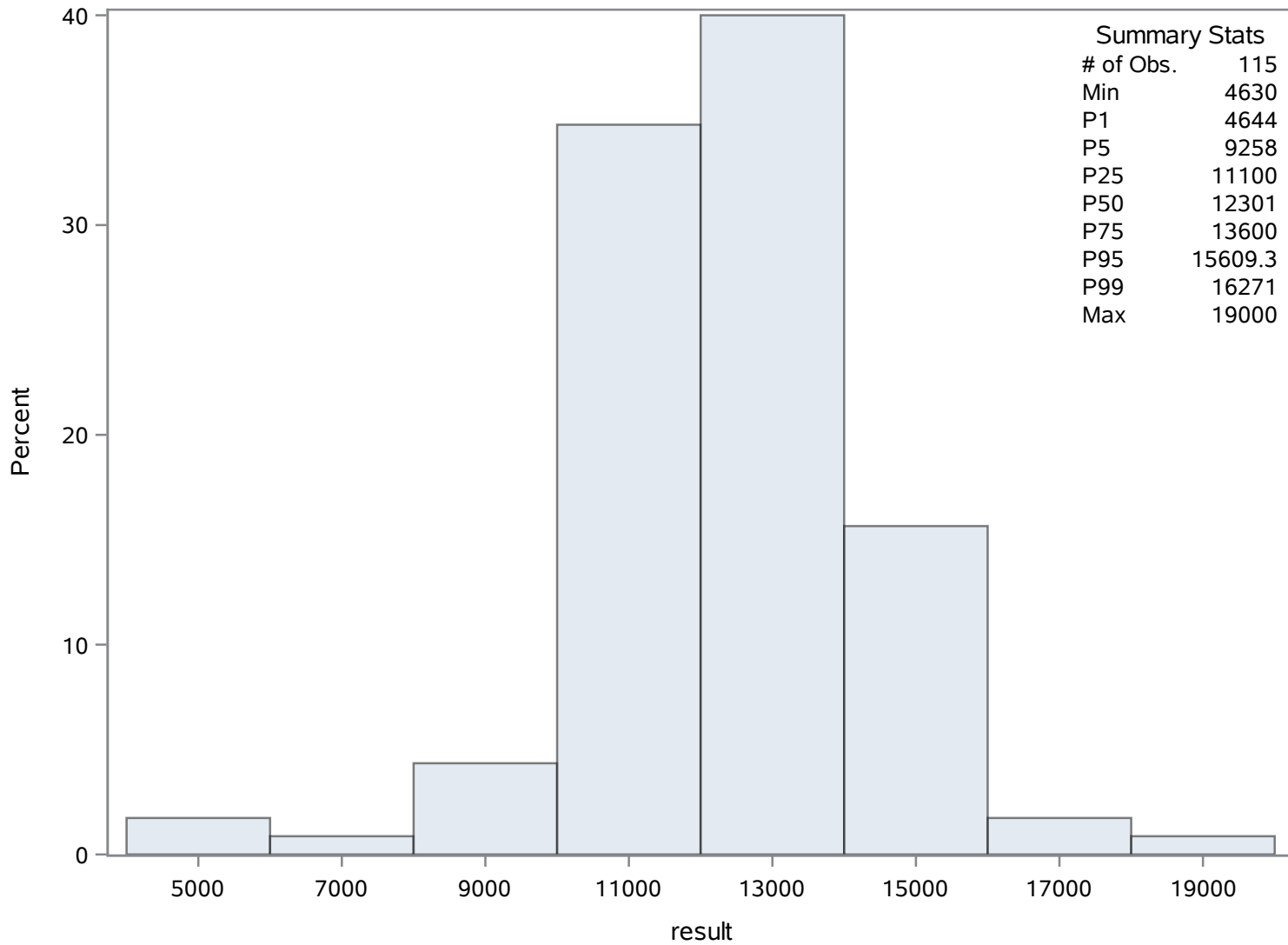
Quantiles (Definition 5)	
Level	Quantile
1%	4644.0
0% Min	4630.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4630	1143	15669	1171
4644	1144	15900	1172
6255	1158	16100	1173
8420	1142	16271	1174
8606	1141	19000	1122

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Summary Stats

# of Obs.	115
Min	4630
P1	4644
P5	9258
P25	11100
P50	12301
P75	13600
P95	15609.3
P99	16271
Max	19000

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	2.04086957	Sum Observations	93.88
Std Deviation	0.26977214	Variance	0.072777
Skewness	0.18568927	Kurtosis	-0.5788039
Uncorrected SS	194.8718	Corrected SS	3.27496522
Coeff Variation	13.2184898	Std Error Mean	0.03977573

Basic Statistical Measures			
Location		Variability	
Mean	2.040870	Std Deviation	0.26977
Median	2.035000	Variance	0.07278
Mode	1.710000	Range	1.09000
		Interquartile Range	0.38000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	51.30942	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.540
99%	2.540
95%	2.520
90%	2.500
75% Q3	2.220
50% Median	2.035
25% Q1	1.840
10%	1.710
5%	1.700
1%	1.450
0% Min	1.450

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.45	1242	2.50	1282
1.62	1264	2.51	1258
1.70	1275	2.52	1254
1.71	1272	2.53	1250
1.71	1263	2.54	1251

Chassahowitzka River - Fixed Station

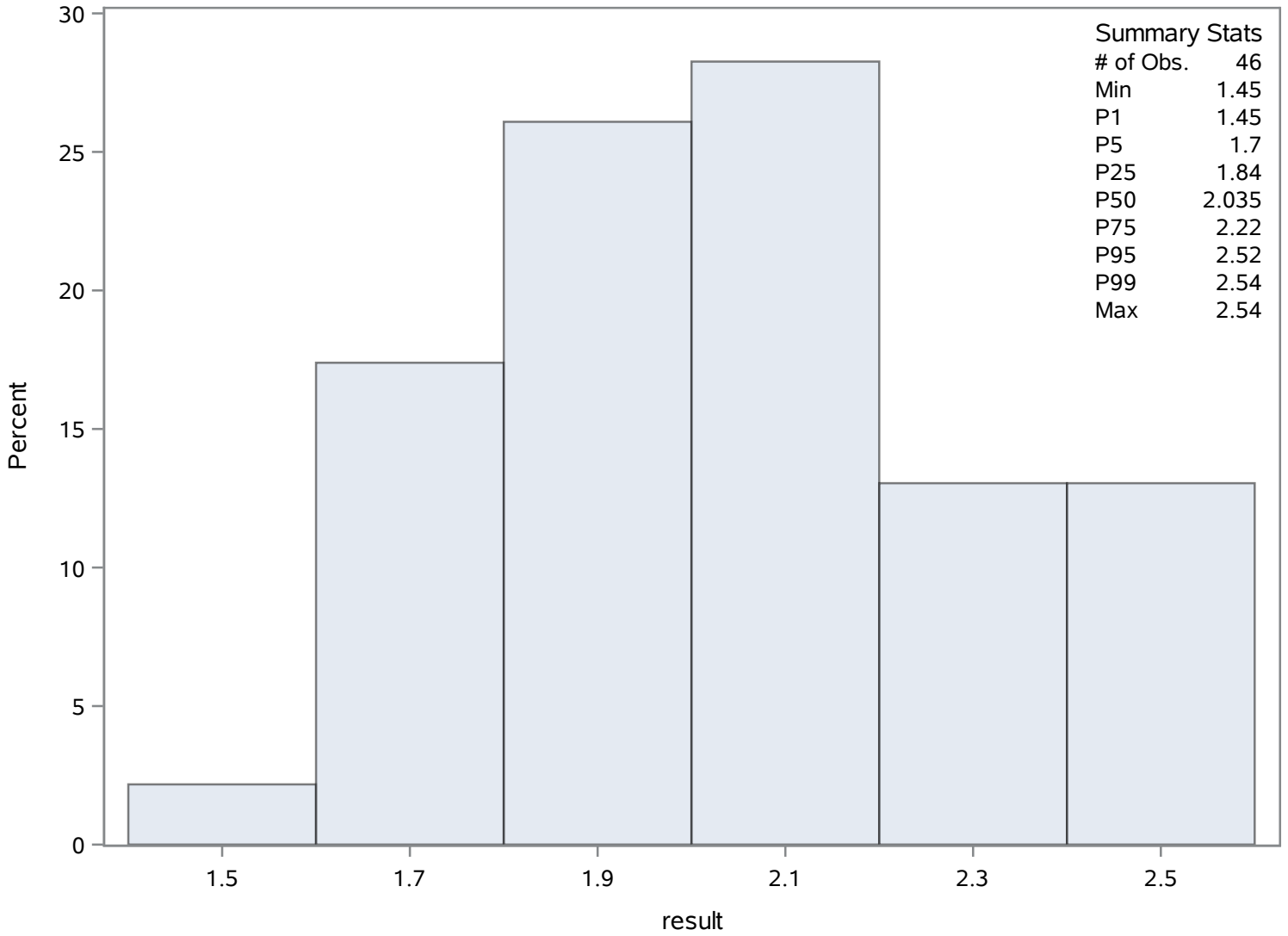
Source: Springs Data

Baird Spring

Strontium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	1525.70889	Sum Observations	13731.38
Std Deviation	1300.13525	Variance	1690351.67
Skewness	-0.133674	Kurtosis	-1.9800947
Uncorrected SS	34472901.9	Corrected SS	13522813.4
Coeff Variation	85.2151587	Std Error Mean	433.378417

Basic Statistical Measures			
Location		Variability	
Mean	1525.709	Std Deviation	1300
Median	2100.000	Variance	1690352
Mode	50.000	Range	3209
		Interquartile Range	2350

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.5205	Pr > t 	0.0078
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	3210.00
99%	3210.00
95%	3210.00
90%	3210.00
75% Q3	2400.00
50% Median	2100.00
25% Q1	50.00
10%	1.38
5%	1.38
1%	1.38
0% Min	1.38

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) ug/L

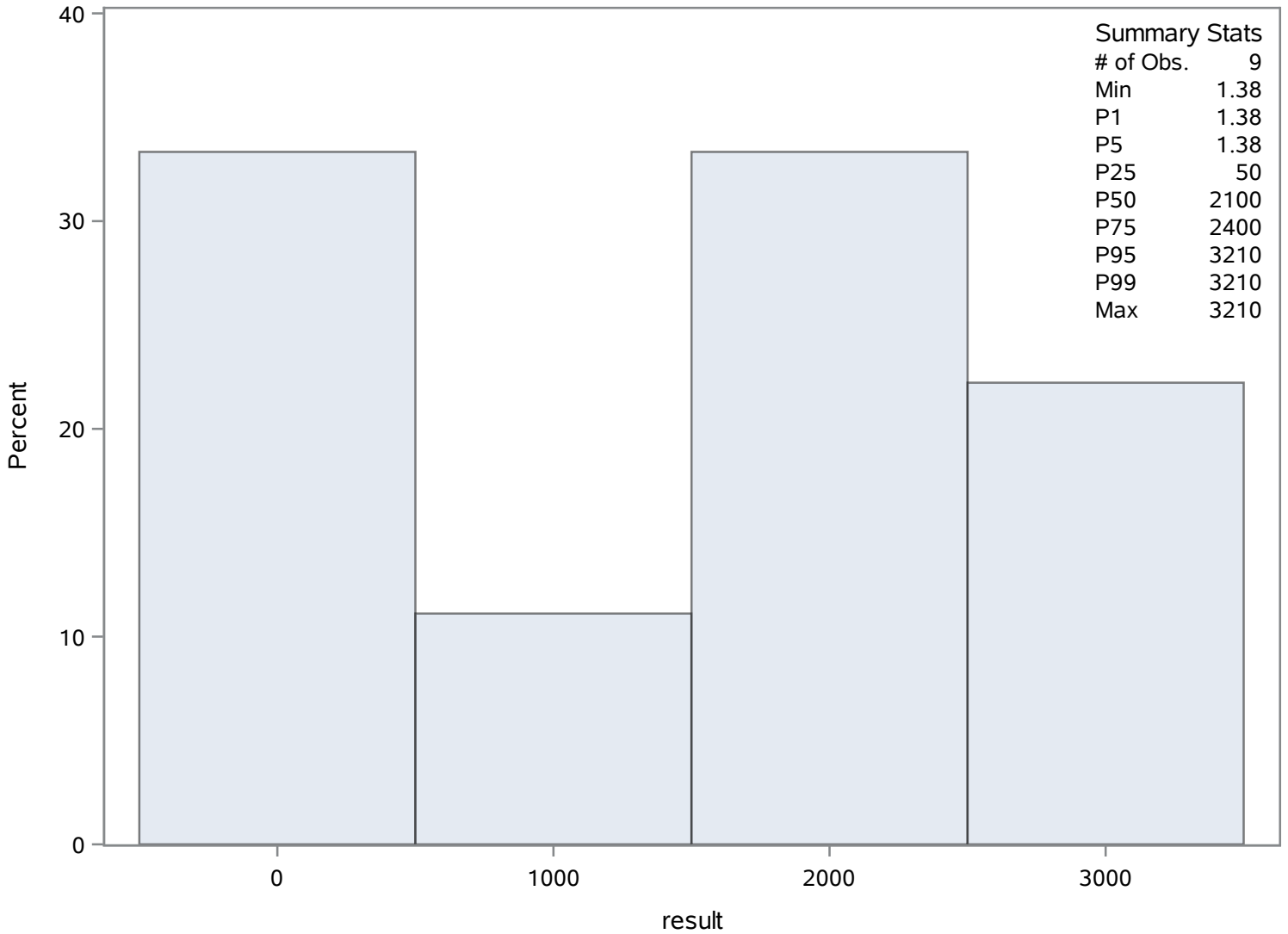
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.38	1290	2100	1288
50.00	1285	2240	1286
50.00	1284	2400	1283
790.00	1291	2890	1287
2100.00	1288	3210	1289

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	544.472836	Sum Observations	36479.68
Std Deviation	84.8225739	Variance	7194.86904
Skewness	-0.884558	Kurtosis	3.61590156
Uncorrected SS	20337056.2	Corrected SS	474861.357
Coeff Variation	15.578844	Std Error Mean	10.3627267

Basic Statistical Measures			
Location		Variability	
Mean	544.4728	Std Deviation	84.82257
Median	542.0000	Variance	7195
Mode	463.0000	Range	522.48000
		Interquartile Range	107.00000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	52.54146	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	715.00
99%	715.00
95%	677.00
90%	660.00
75% Q3	595.00
50% Median	542.00
25% Q1	488.00
10%	462.00
5%	443.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

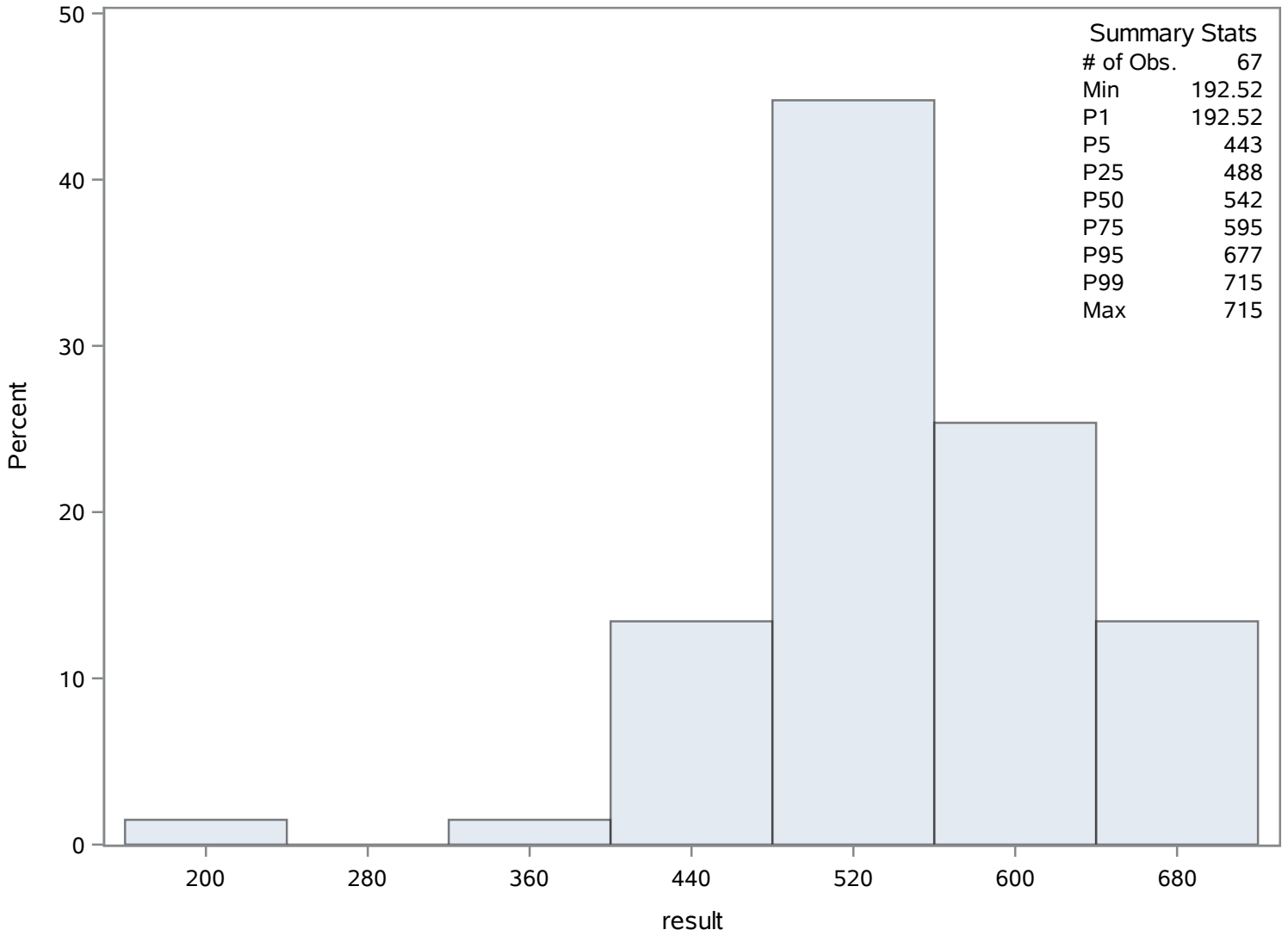
Quantiles (Definition 5)	
Level	Quantile
1%	192.52
0% Min	192.52

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
192.52	1312	662	1334
342.00	1311	677	1358
437.00	1318	683	1326
443.00	1351	714	1323
452.00	1340	715	1327

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	23.099	Sum Observations	1385.94
Std Deviation	1.11871249	Variance	1.25151763
Skewness	2.35794022	Kurtosis	30.0787068
Uncorrected SS	32087.6676	Corrected SS	73.83954
Coeff Variation	4.84312086	Std Error Mean	0.14442516

Basic Statistical Measures			
Location		Variability	
Mean	23.09900	Std Deviation	1.11871
Median	23.07000	Variance	1.25152
Mode	22.90000	Range	11.82000
		Interquartile Range	0.21500

Note: The mode displayed is the smallest of 4 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	159.9375	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	29.900
99%	29.900
95%	23.500
90%	23.325
75% Q3	23.160
50% Median	23.070
25% Q1	22.945
10%	22.830
5%	22.755

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

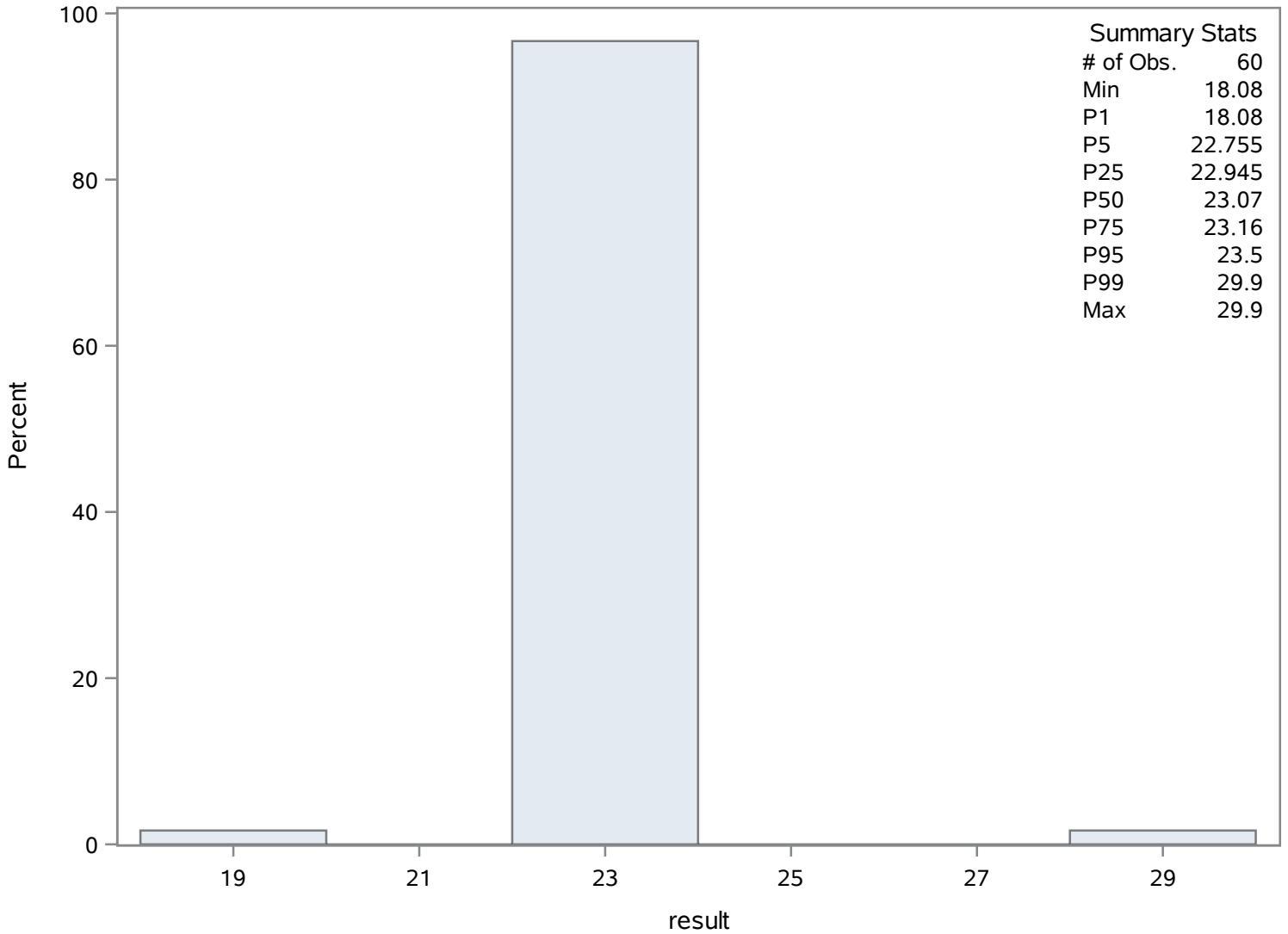
Quantiles (Definition 5)	
Level	Quantile
1%	18.080
0% Min	18.080

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.08	1372	23.37	1374
22.53	1404	23.40	1363
22.71	1395	23.60	1360
22.80	1370	23.80	1362
22.80	1368	29.90	1359

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Baird Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	0.89	Sum Observations	59.63
Std Deviation	0.56437952	Variance	0.31852424
Skewness	-0.0157077	Kurtosis	-1.0615375
Uncorrected SS	74.0933	Corrected SS	21.0226
Coeff Variation	63.4134292	Std Error Mean	0.06894993

Basic Statistical Measures			
Location		Variability	
Mean	0.890000	Std Deviation	0.56438
Median	1.000000	Variance	0.31852
Mode	0.130000	Range	2.00000
		Interquartile Range	1.14000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.90792	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.08
99%	2.08
95%	1.86
90%	1.54
75% Q3	1.32
50% Median	1.00
25% Q1	0.18
10%	0.13
5%	0.13
1%	0.08
0% Min	0.08

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.08	1439	1.63	1479
0.08	1433	1.86	1469
0.13	1458	1.90	1440
0.13	1456	1.92	1447
0.13	1455	2.08	1483

Chassahowitzka River - Fixed Station

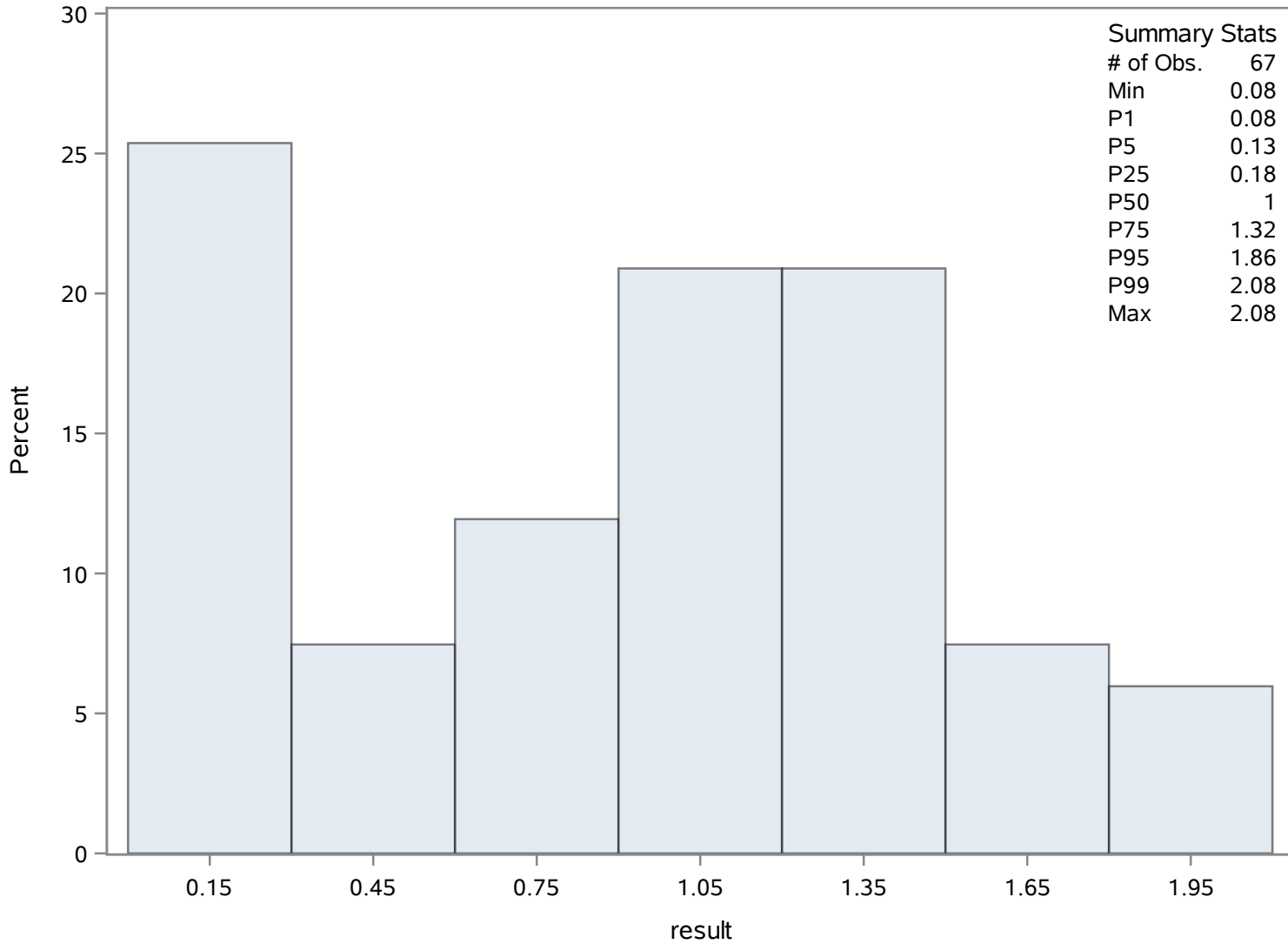
Source: Springs Data

Baird Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	7.31533333	Sum Observations	438.92
Std Deviation	0.08007341	Variance	0.00641175
Skewness	0.16946534	Kurtosis	0.72219627
Uncorrected SS	3211.2244	Corrected SS	0.37829333
Coeff Variation	1.09459691	Std Error Mean	0.01033743

Basic Statistical Measures			
Location		Variability	
Mean	7.315333	Std Deviation	0.08007
Median	7.295000	Variance	0.00641
Mode	7.260000	Range	0.43000
		Interquartile Range	0.09000

Note: The mode displayed is the smallest of 3 modes with a count of 6.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	707.6547	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.510
99%	7.510
95%	7.465
90%	7.425
75% Q3	7.360
50% Median	7.295
25% Q1	7.270
10%	7.230
5%	7.210

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

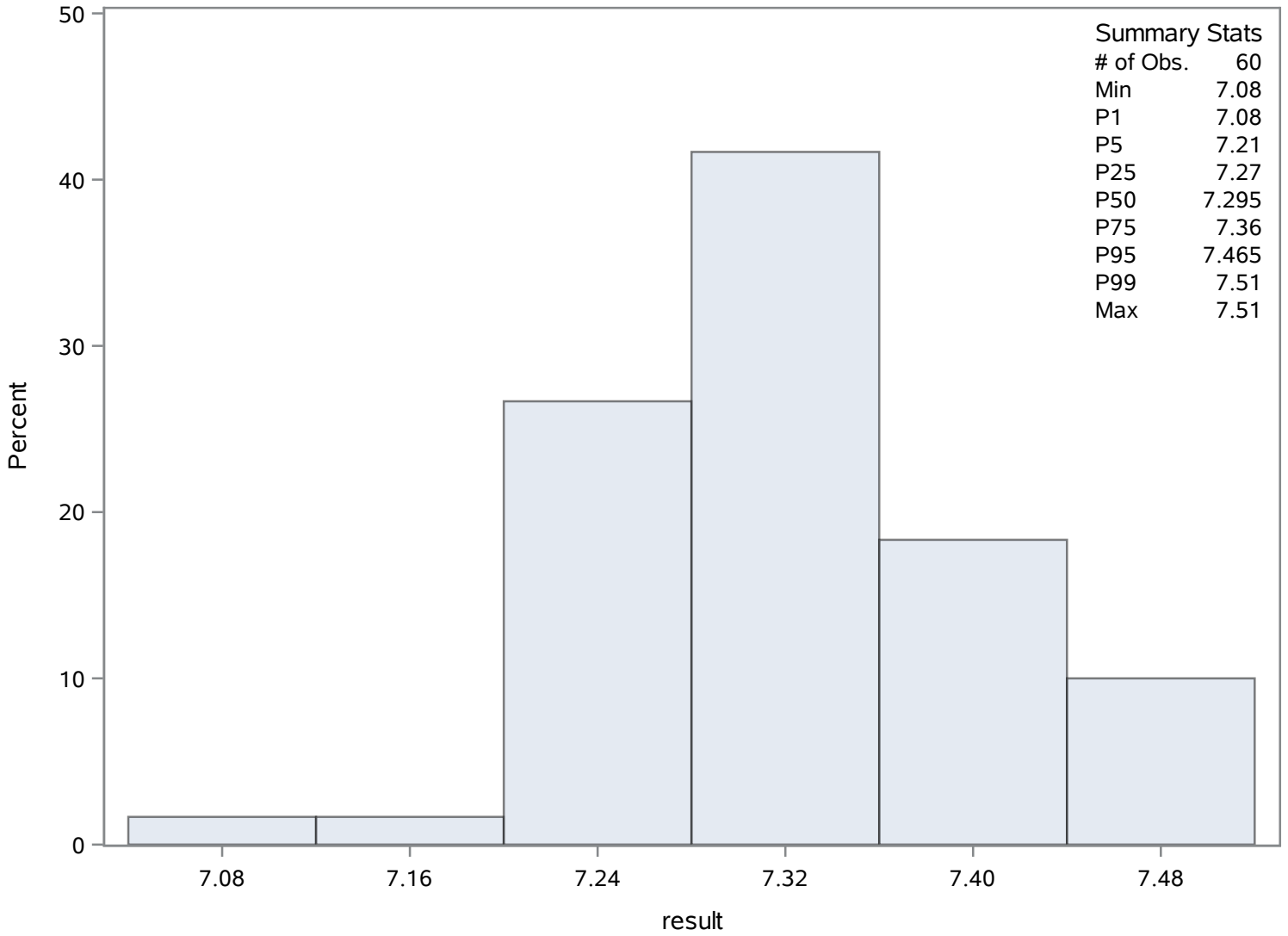
Quantiles (Definition 5)	
Level	Quantile
1%	7.080
0% Min	7.080

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.08	1513	7.44	1495
7.16	1518	7.46	1488
7.21	1533	7.47	1493
7.21	1516	7.49	1491
7.22	1521	7.51	1496

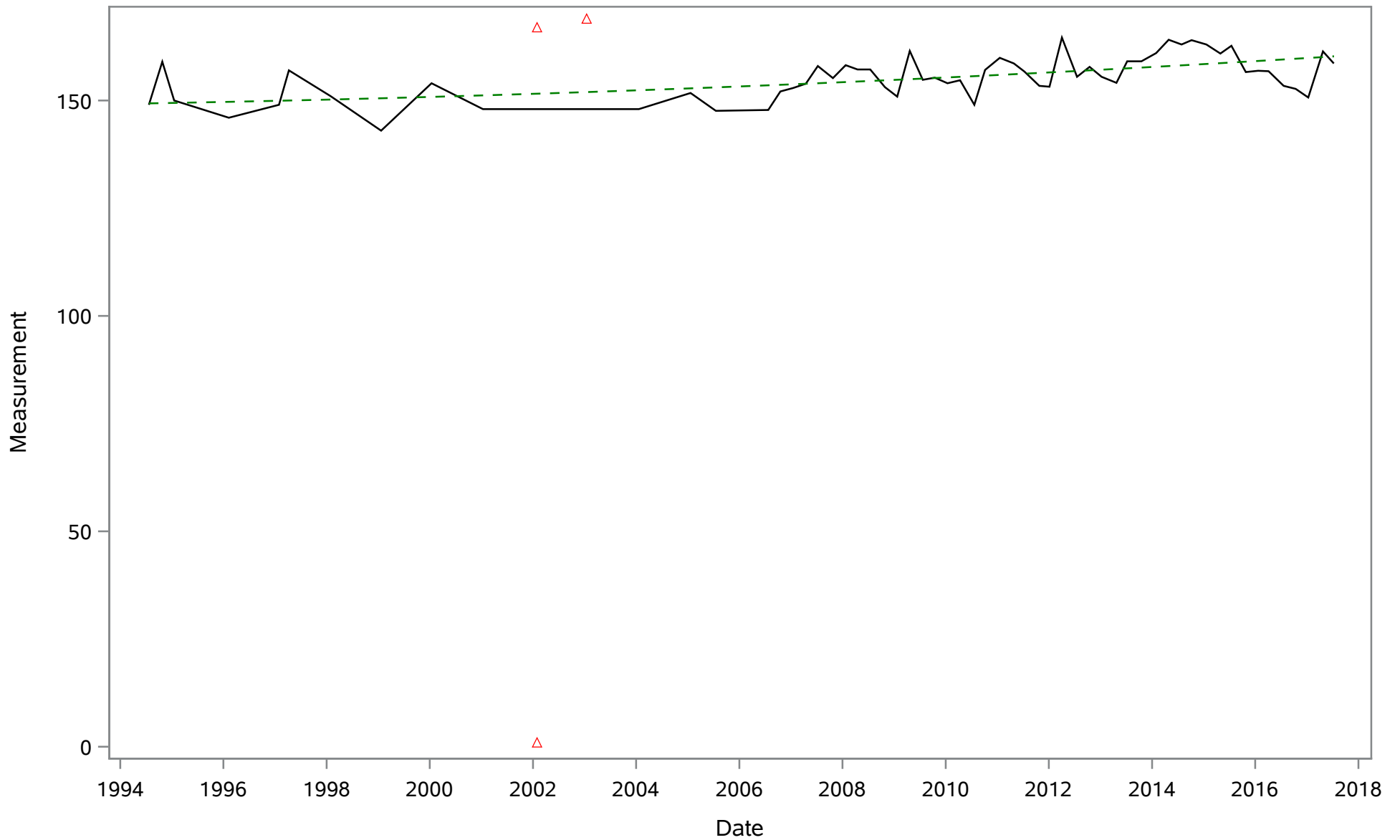
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

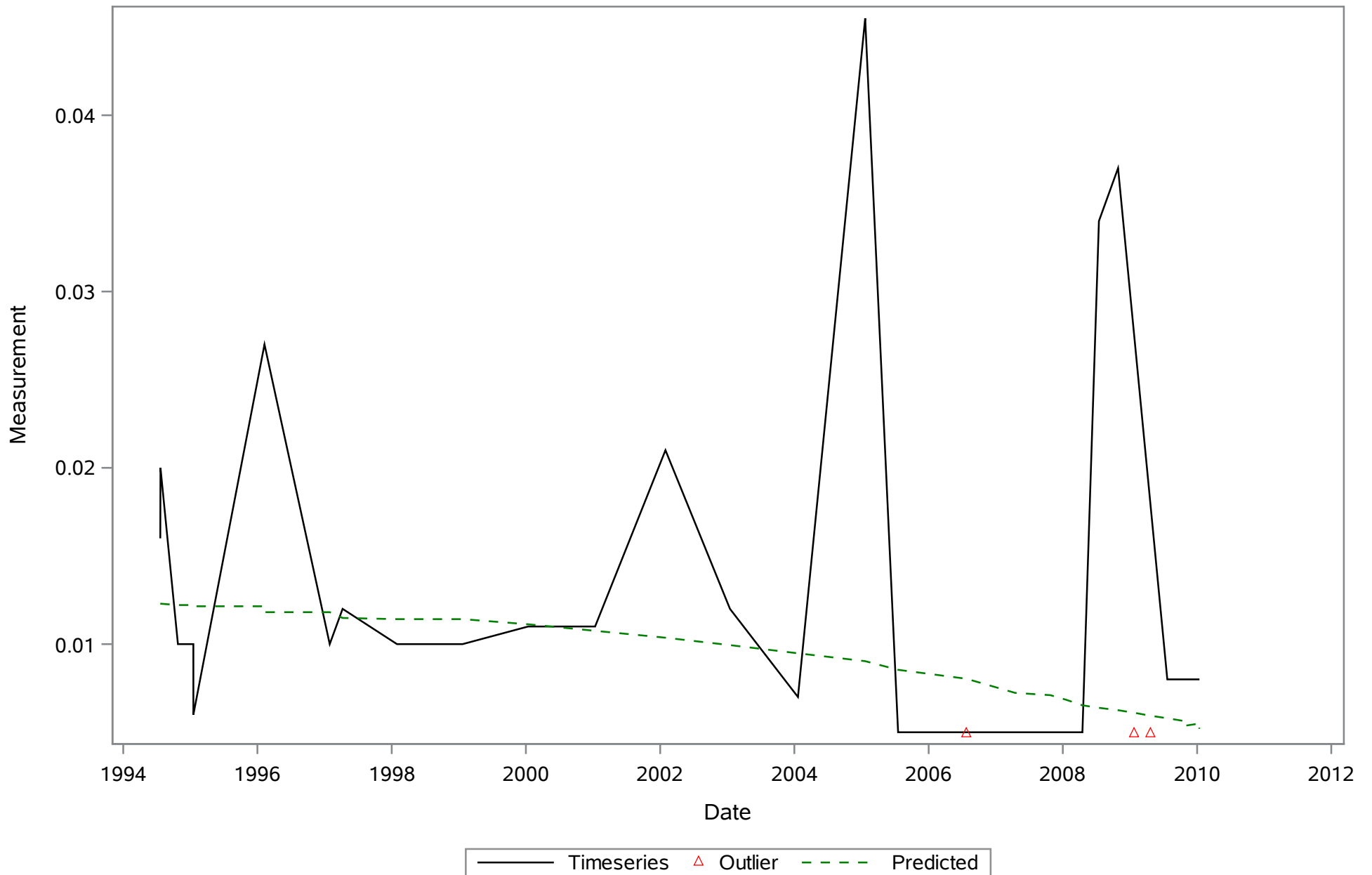


Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Alkalinity (Total) mg/L

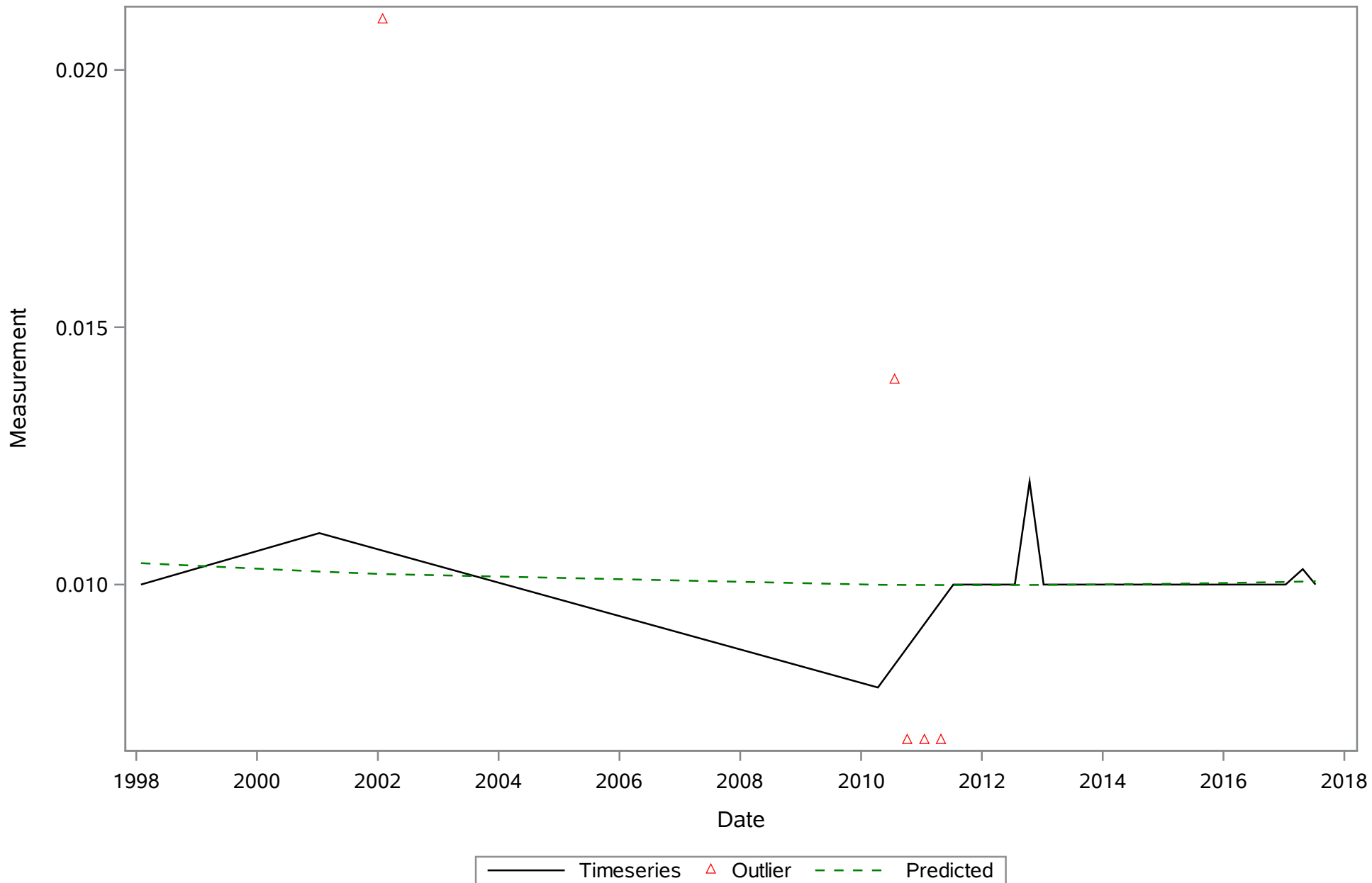


— Timeseries ▲ Outlier - - - Predicted

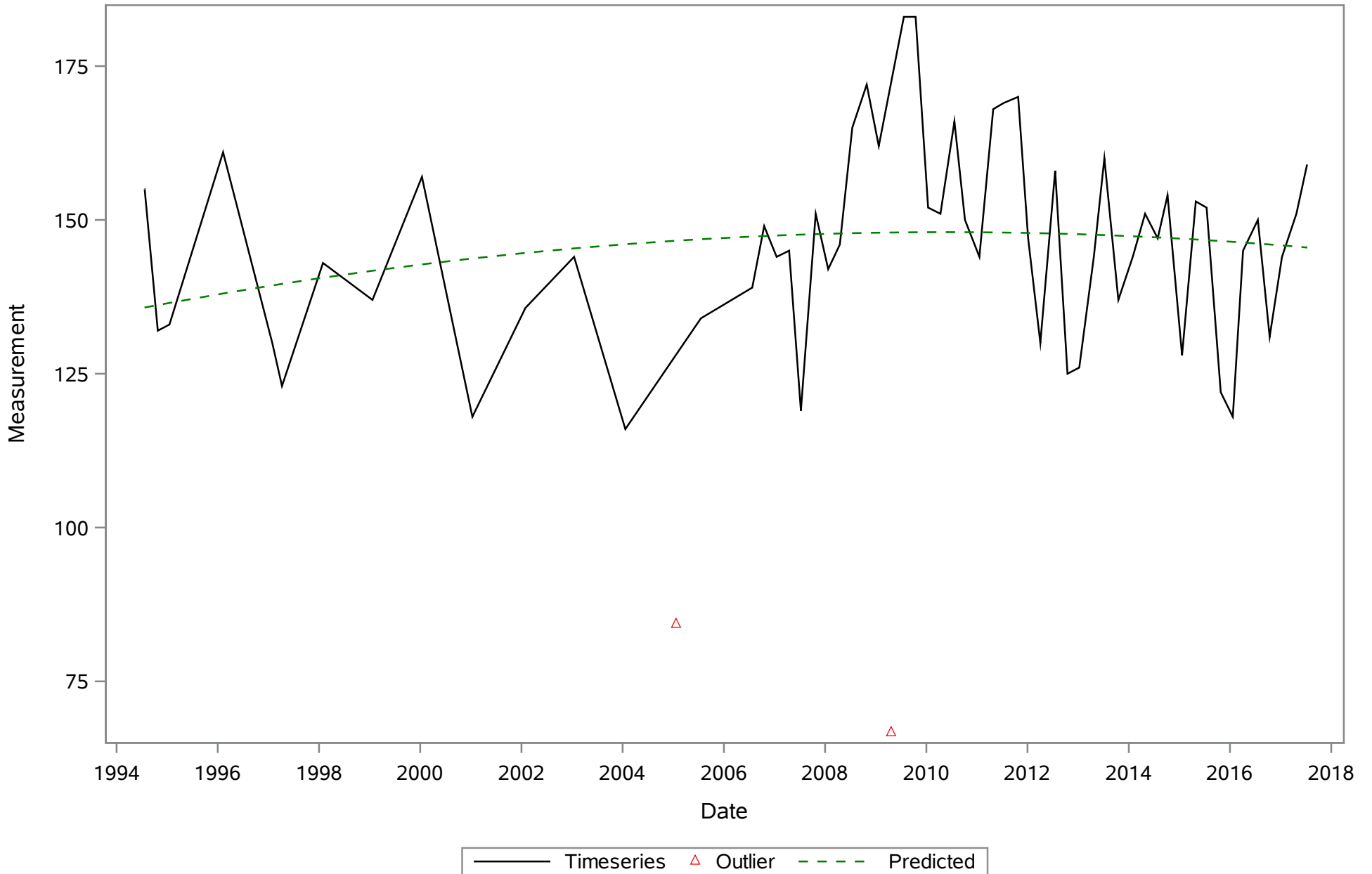
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Dissolved) mg/L



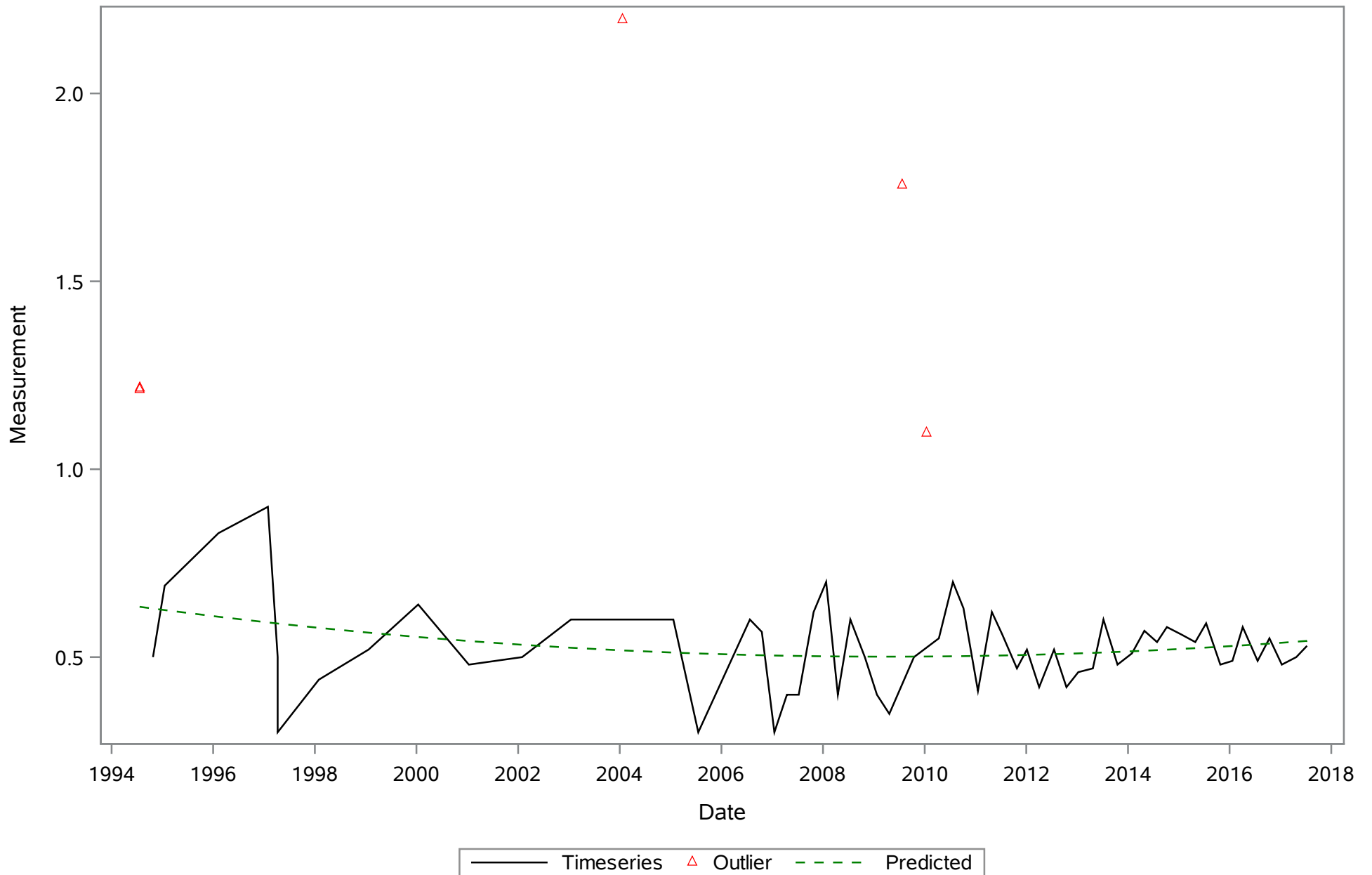
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Total) mg/L



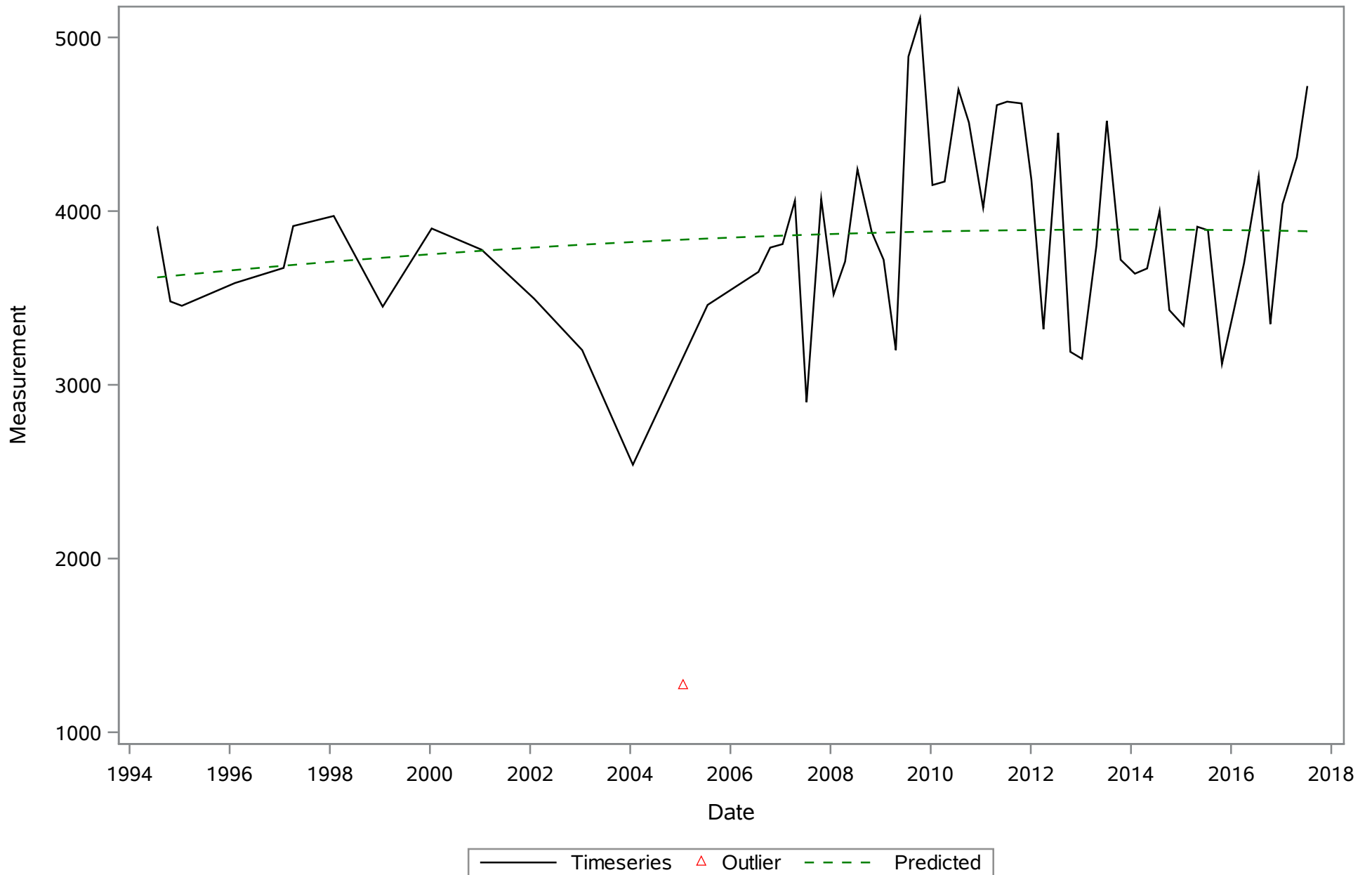
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Calcium (Dissolved) mg/L



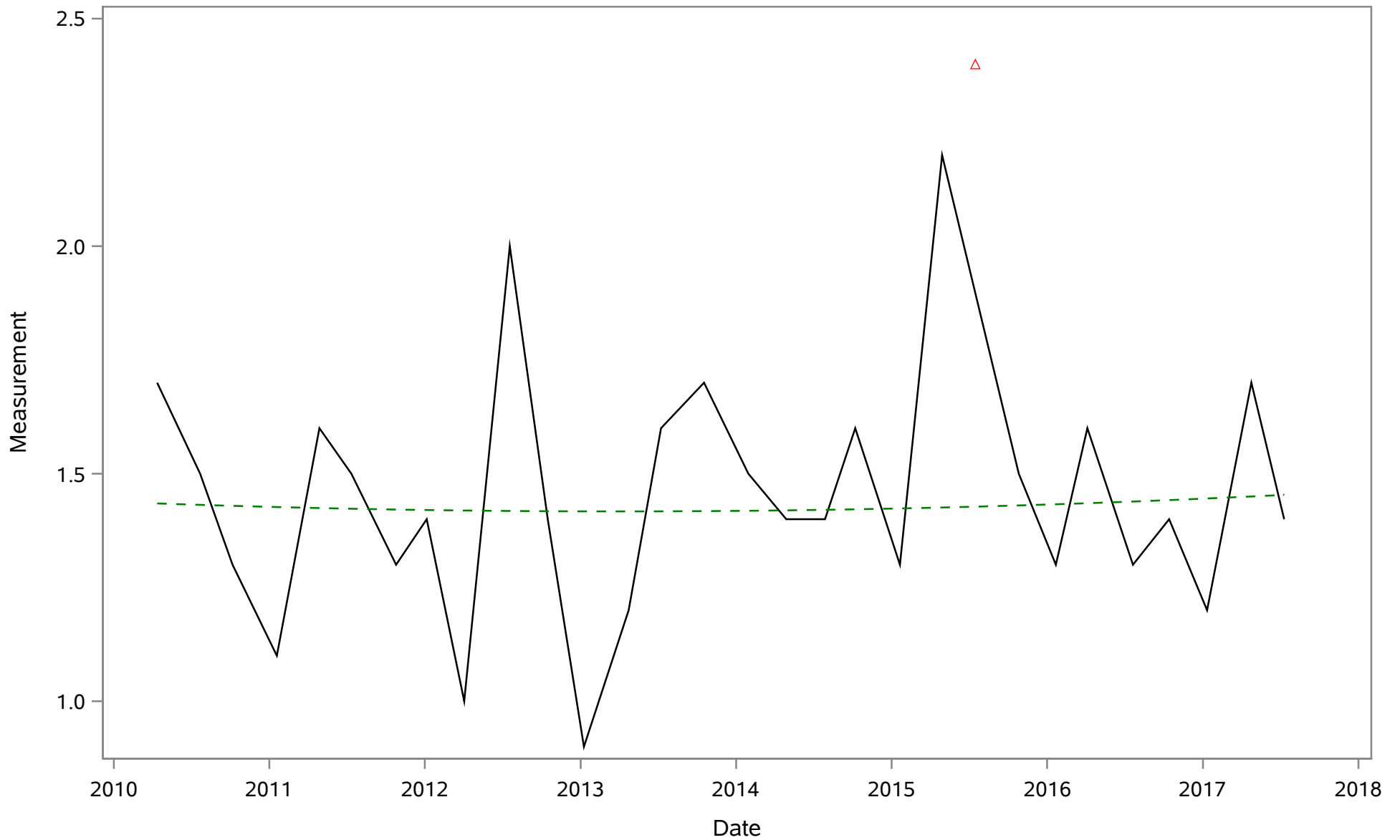
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Carbon- Total Organic (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Chloride (Dissolved) mg/L

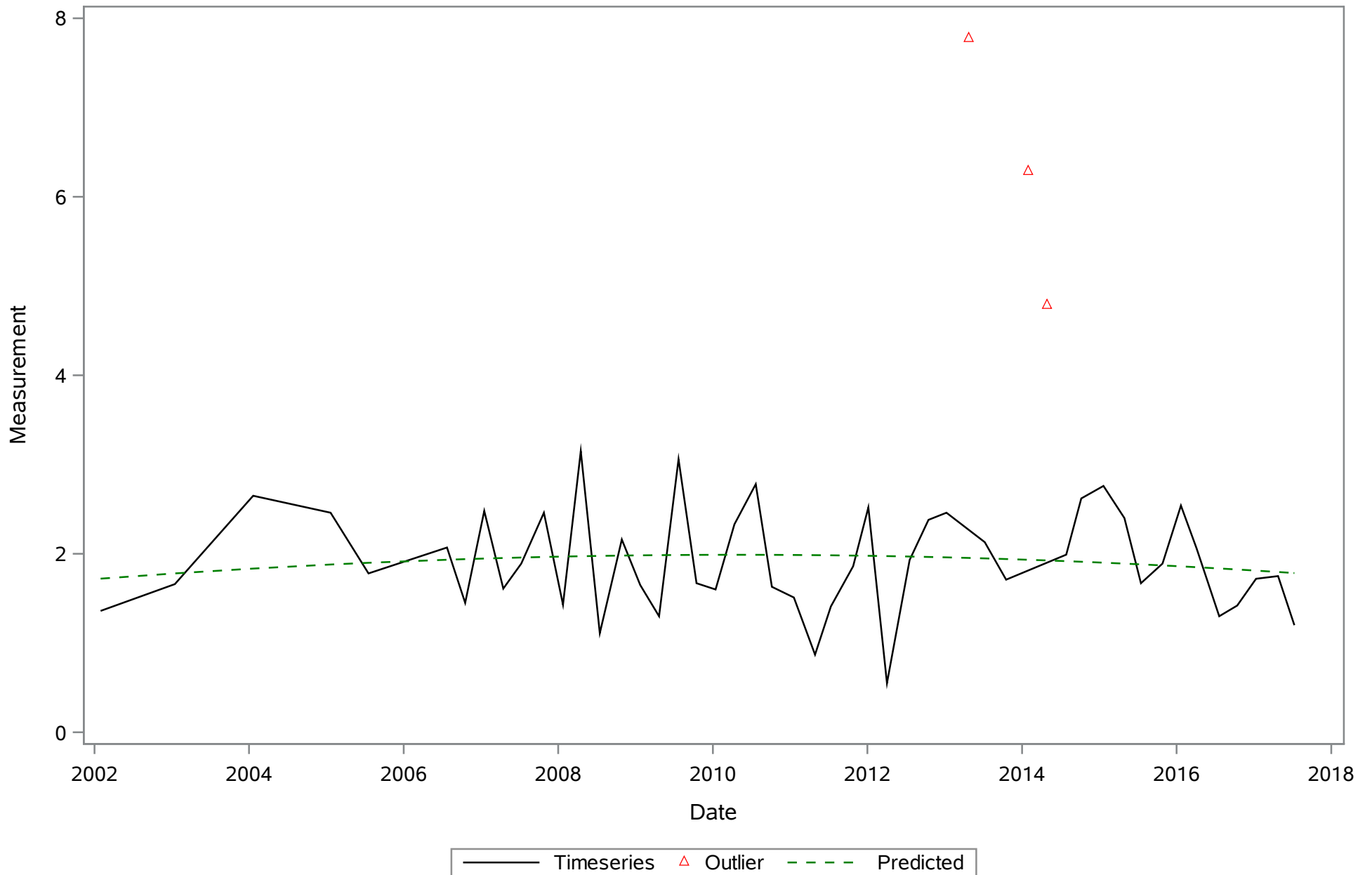


Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Color (Dissolved) PCU

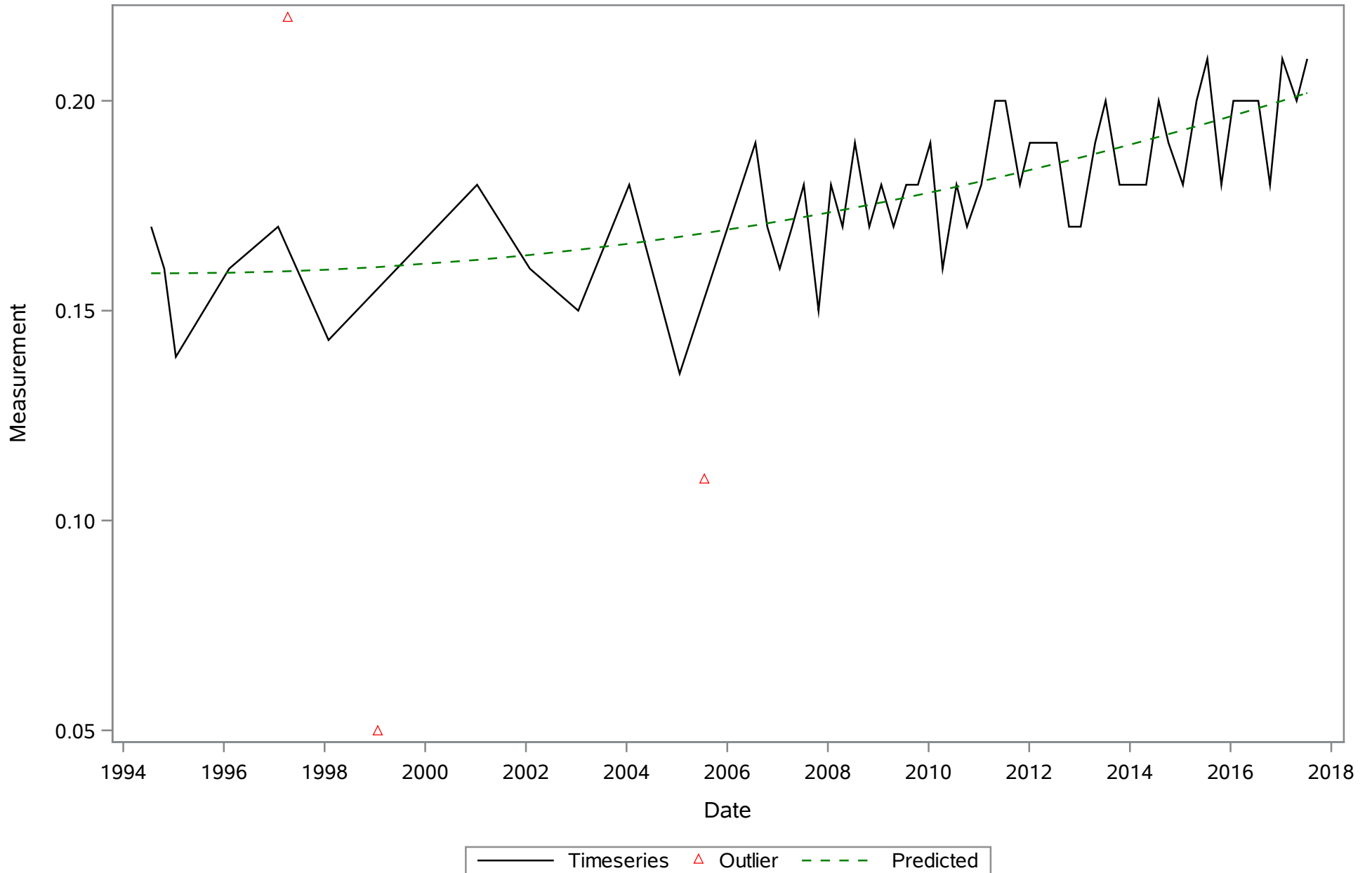


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Dissolved Oxygen (Total) mg/L



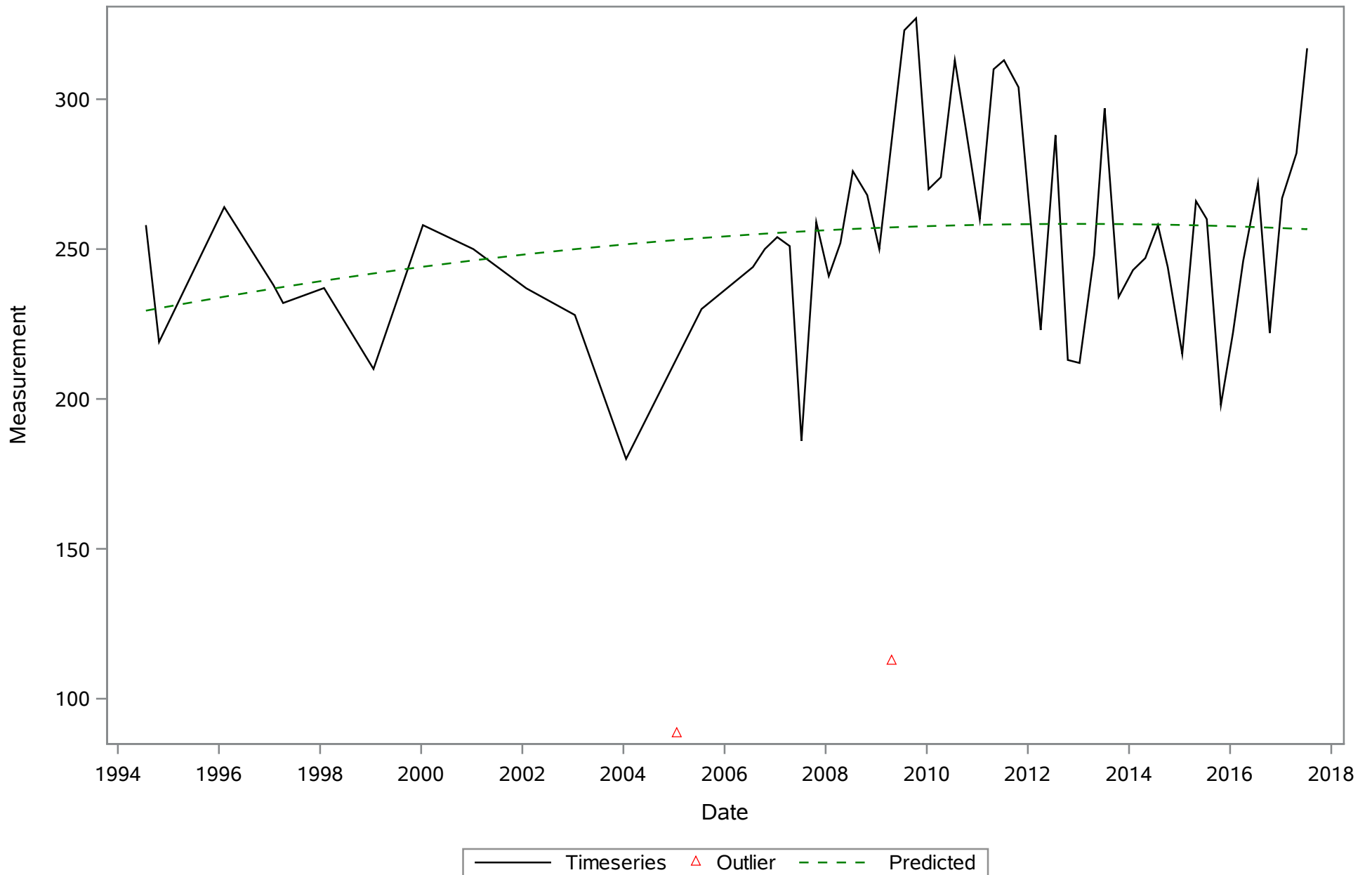
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Fluoride (Dissolved) mg/L



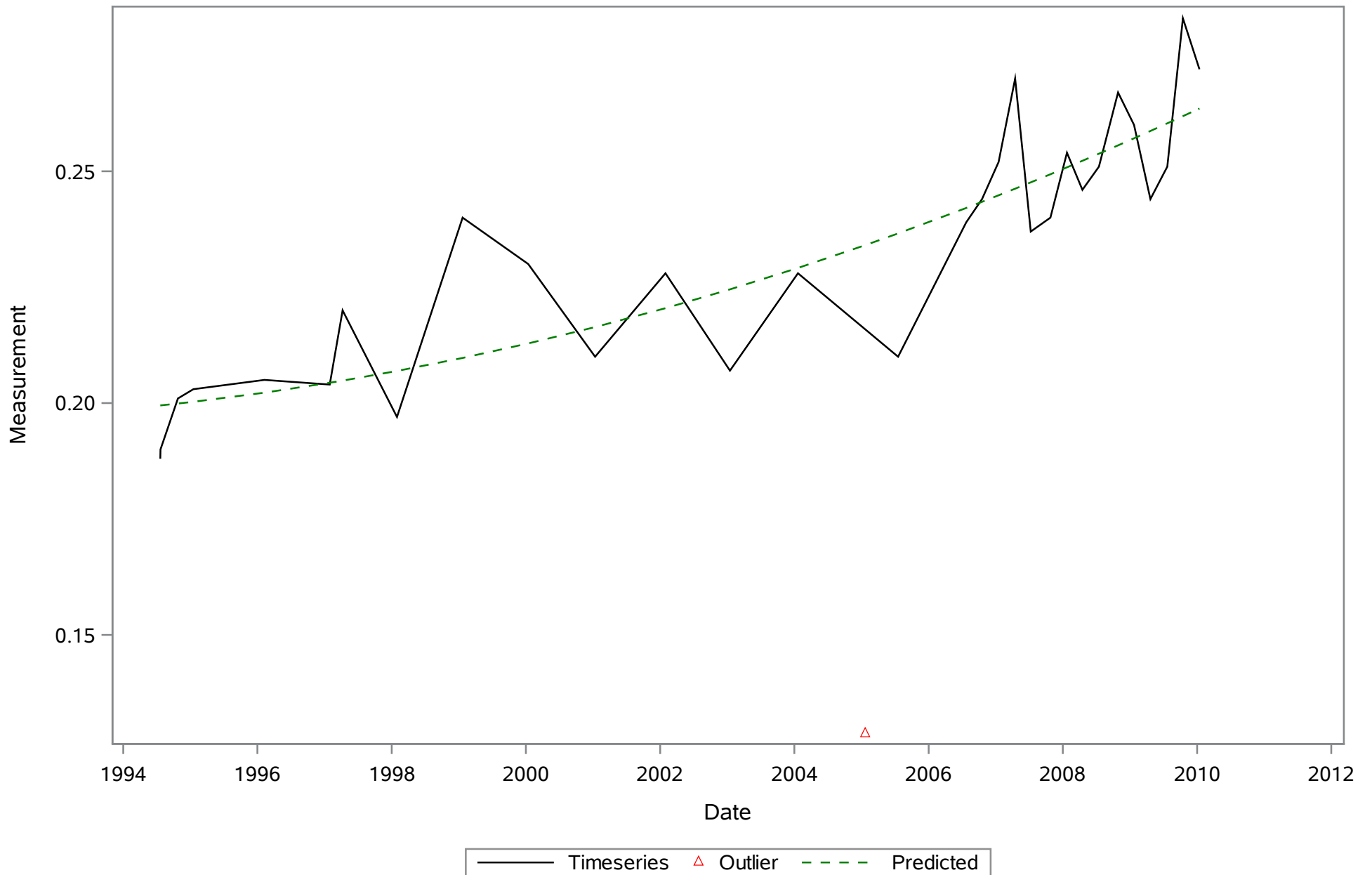
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Iron (Dissolved) ug/L



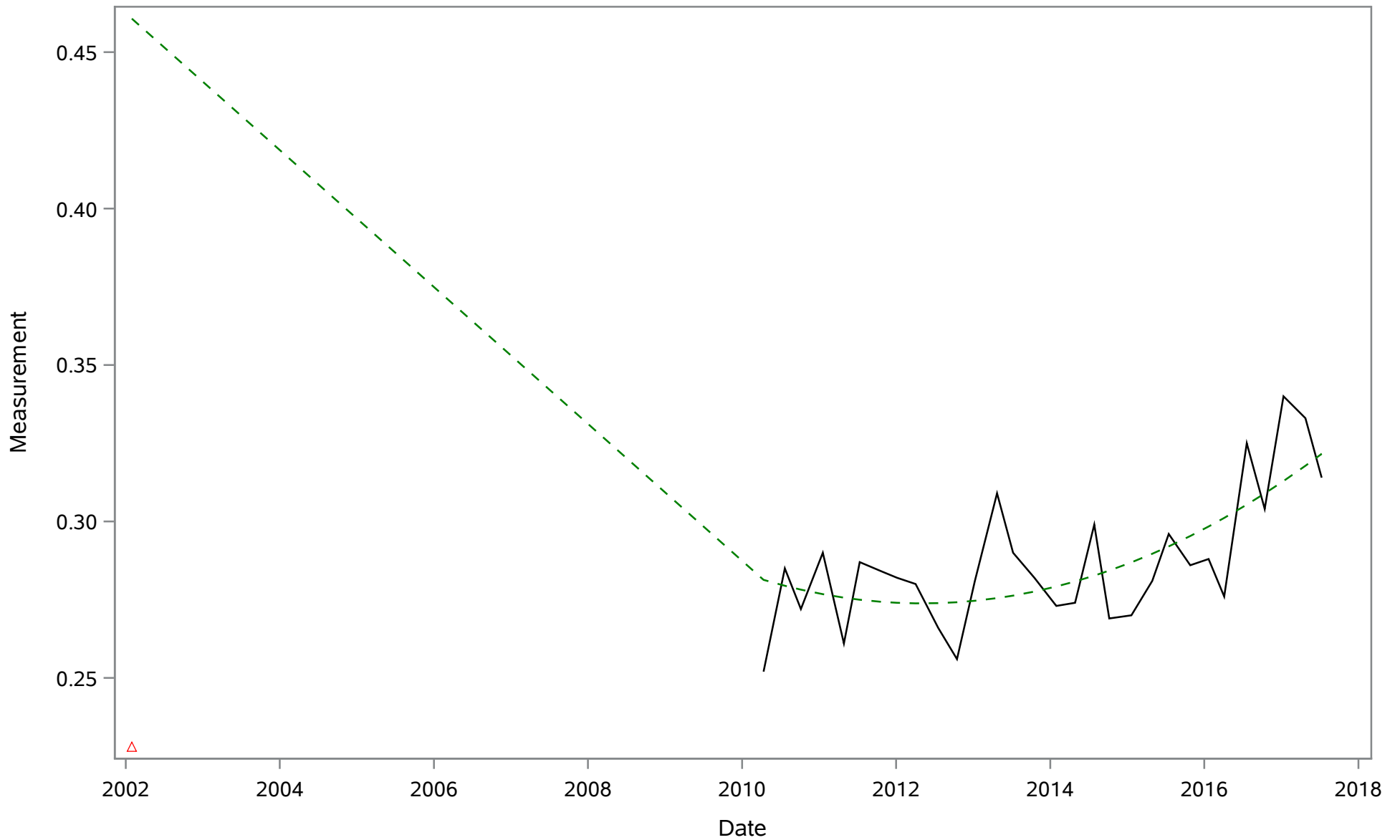
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Magnesium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

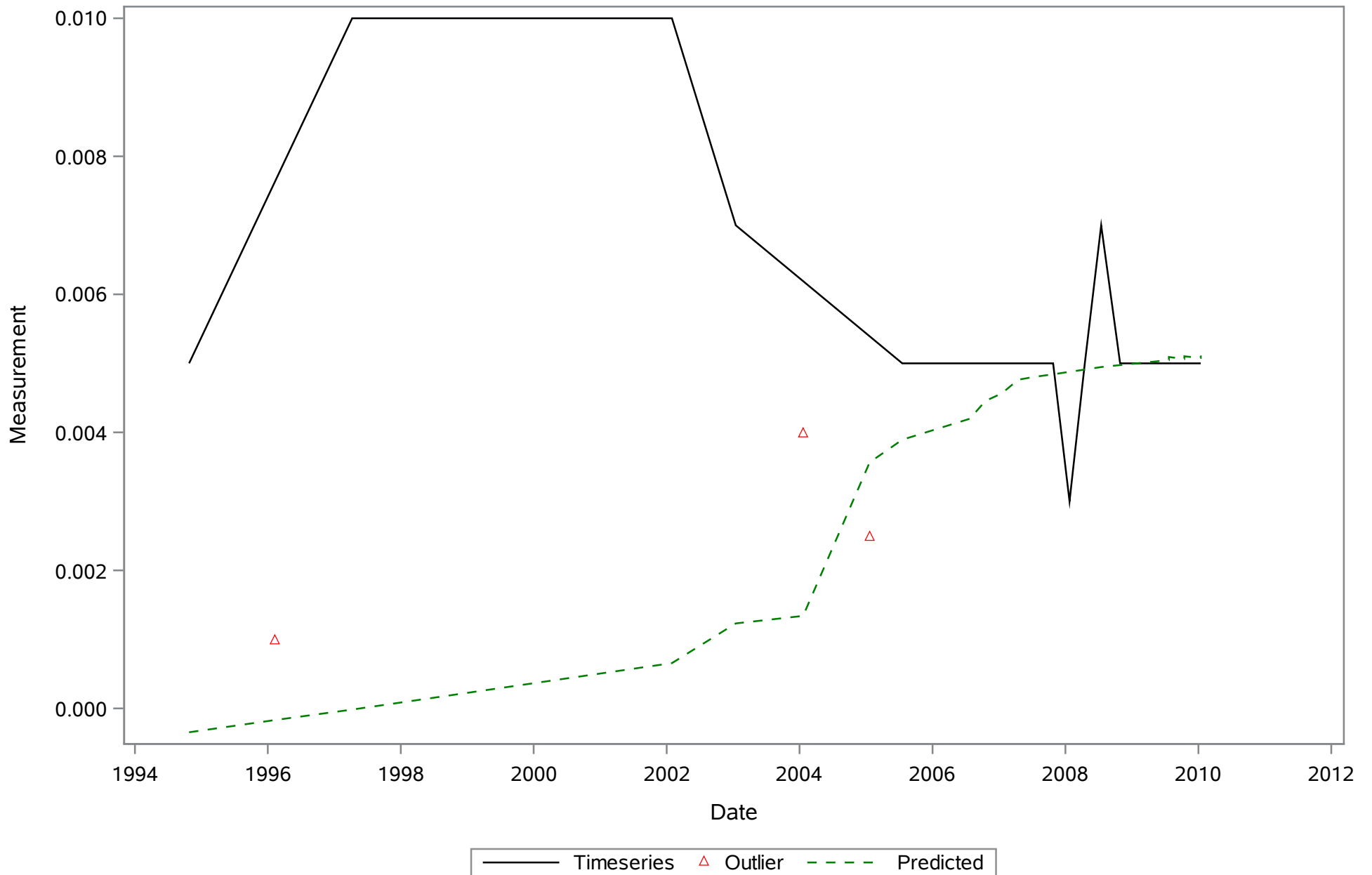


Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Total) mg/L

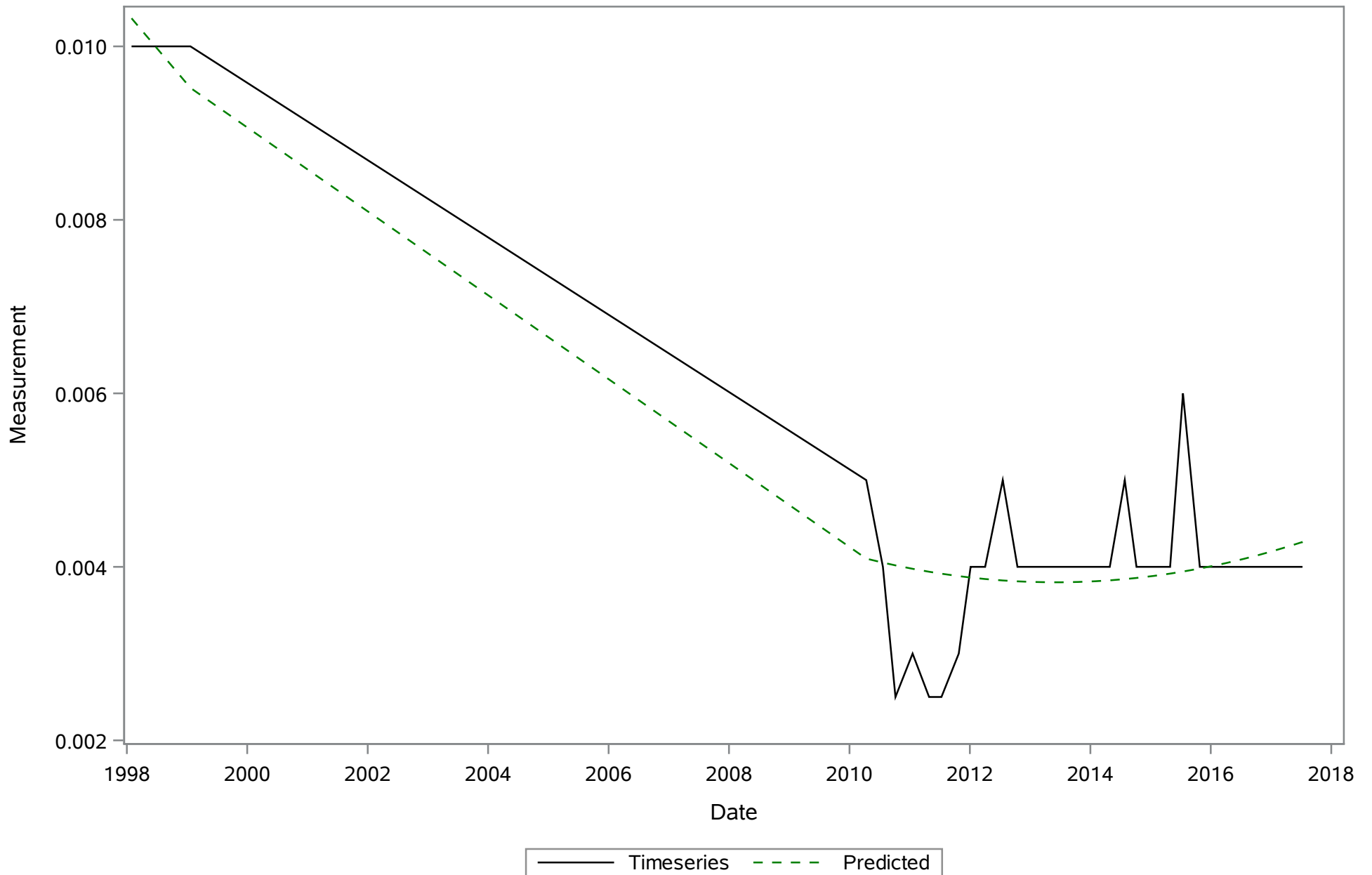


— Timeseries △ Outlier - - - Predicted

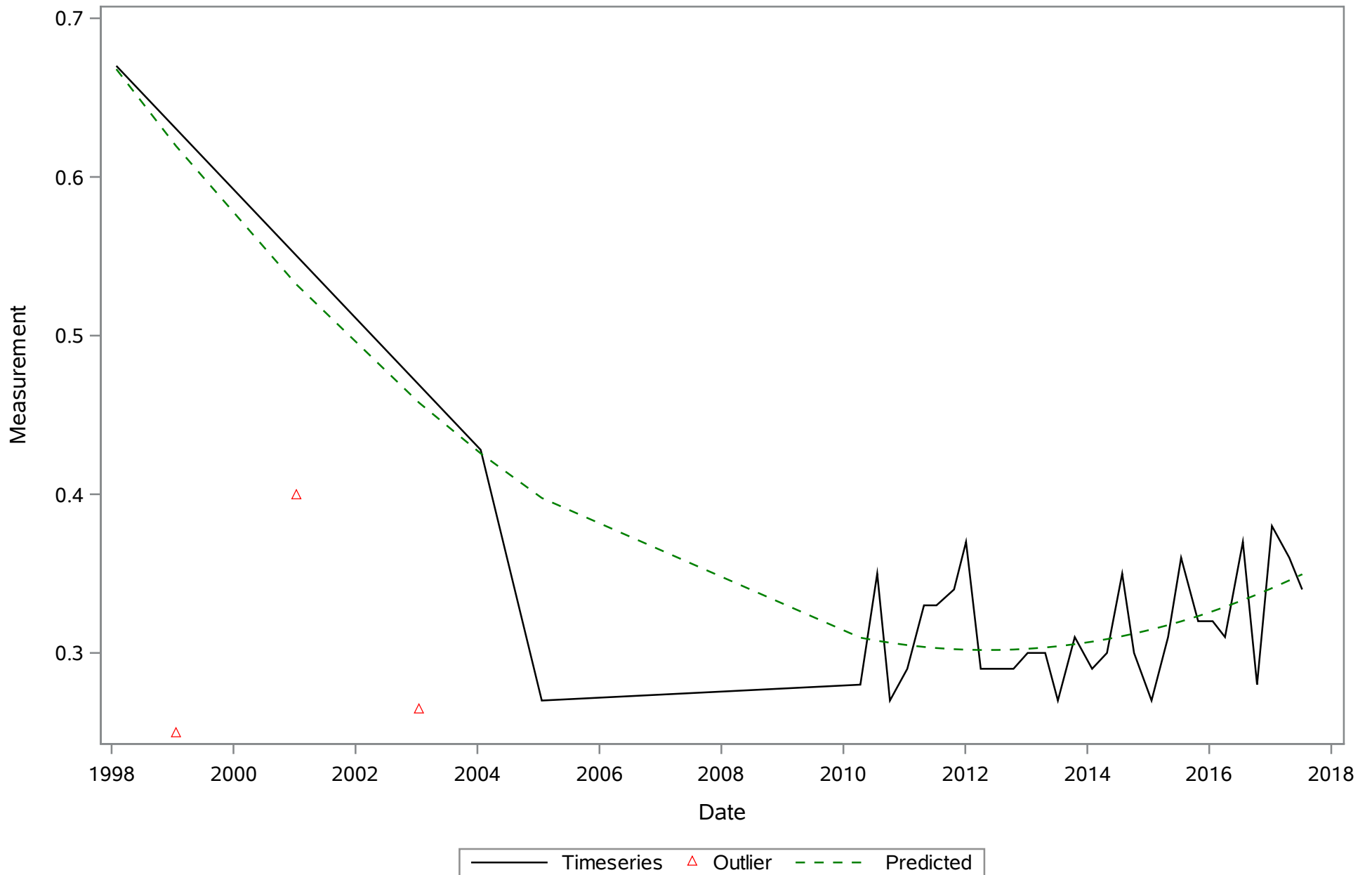
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Dissolved) mg/L



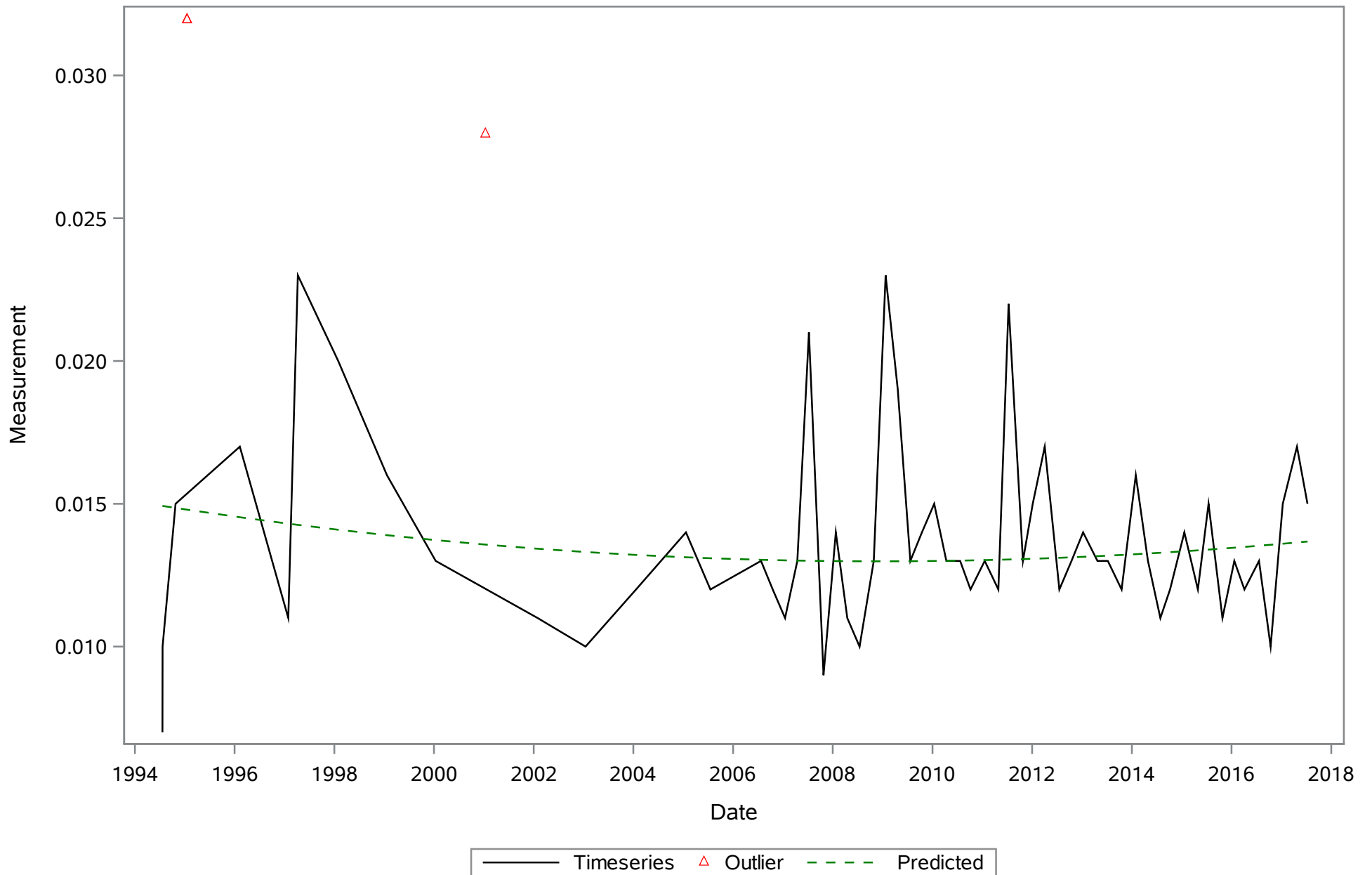
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Total) mg/L



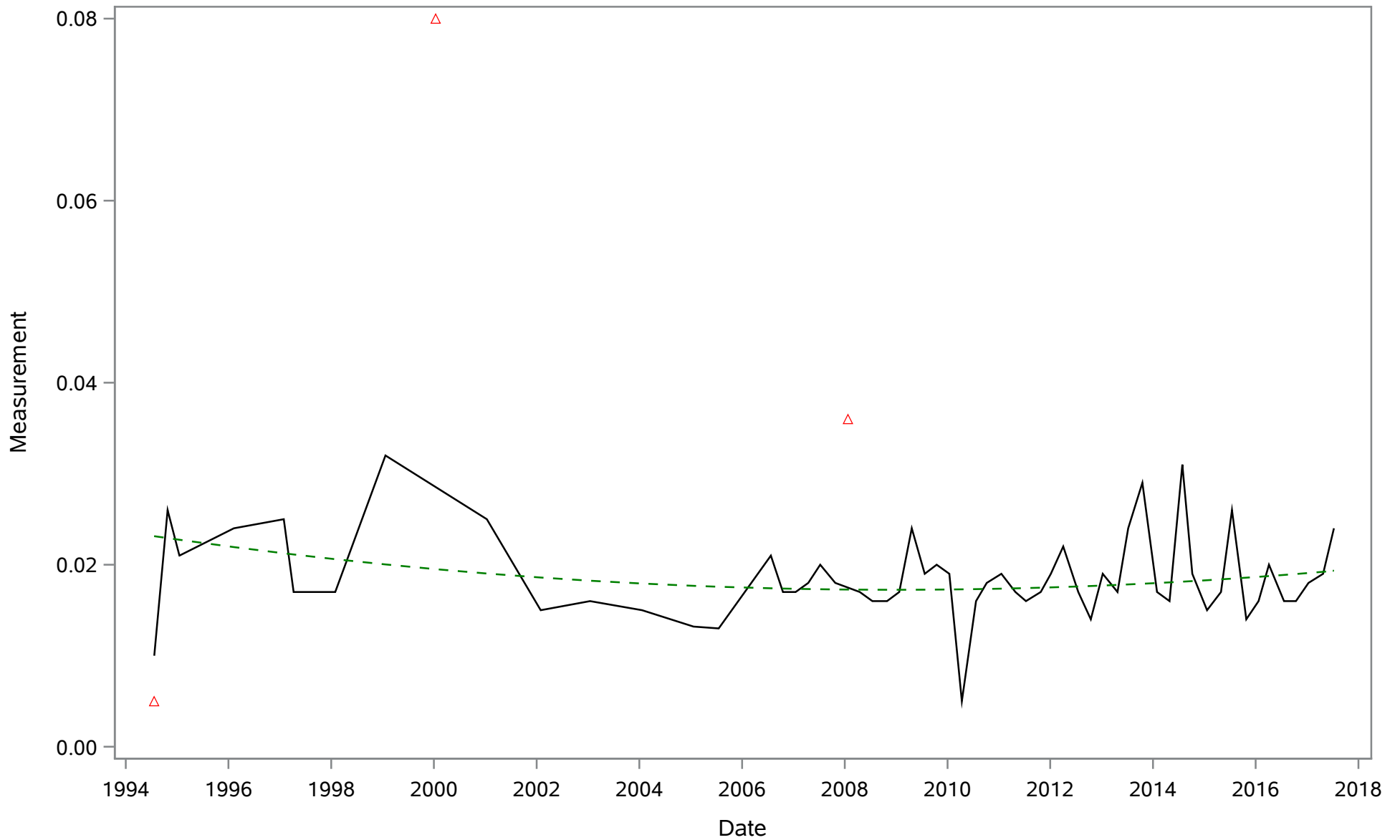
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrogen- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Orthophosphate (P) (Dissolved) mg/L

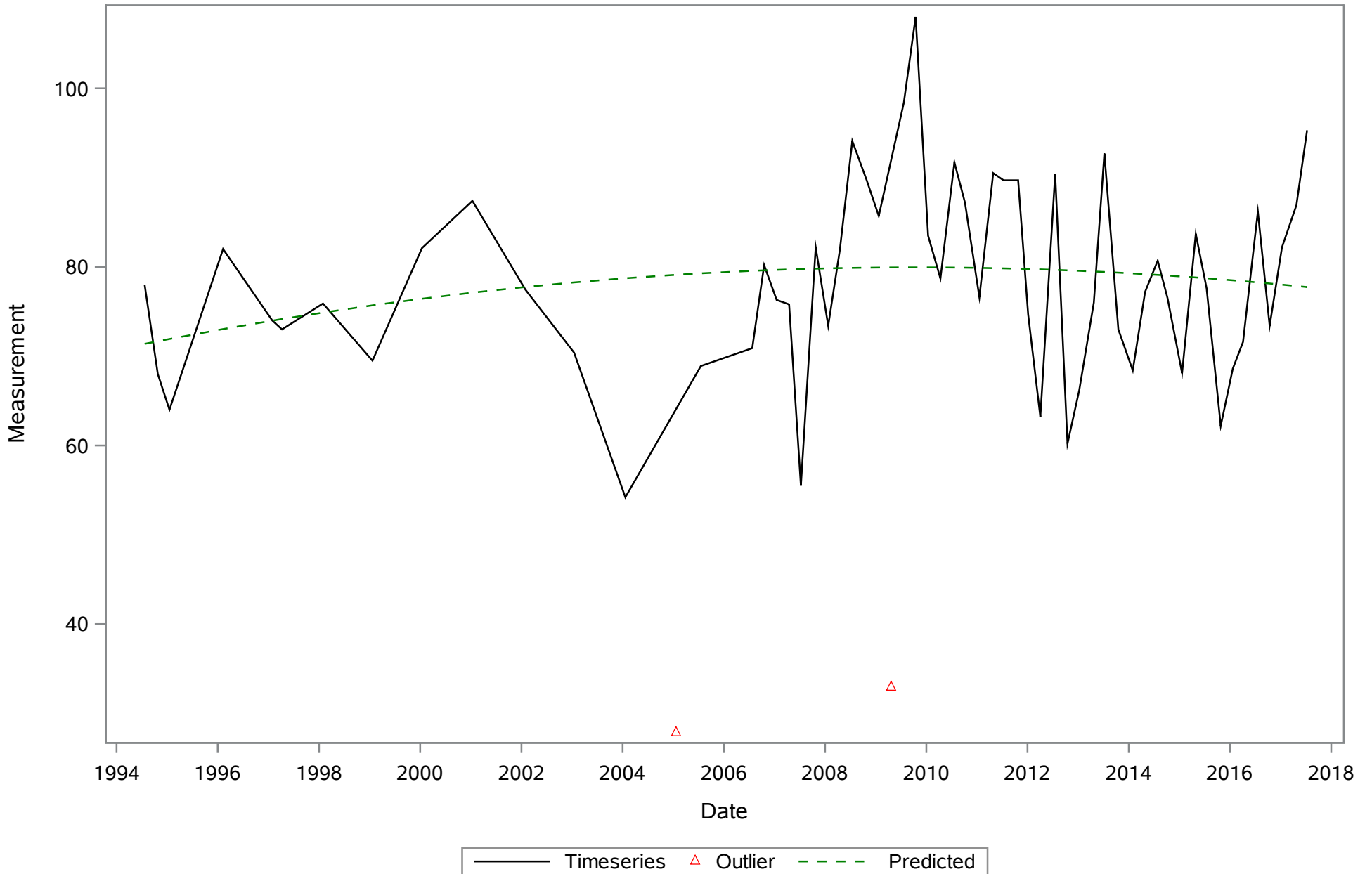


Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Phosphorus- Total (Total) mg/L

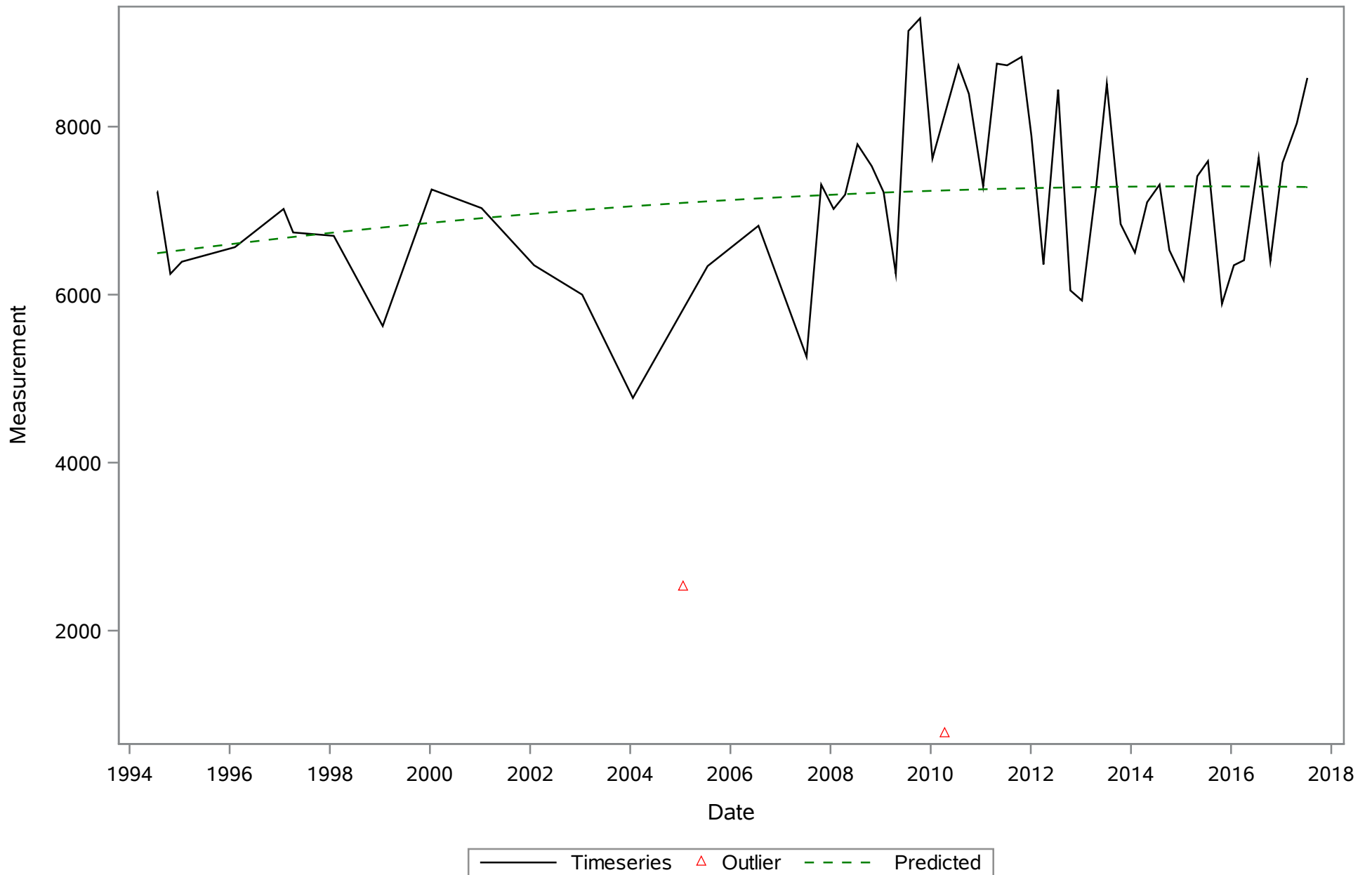


— Timeseries △ Outlier - - - Predicted

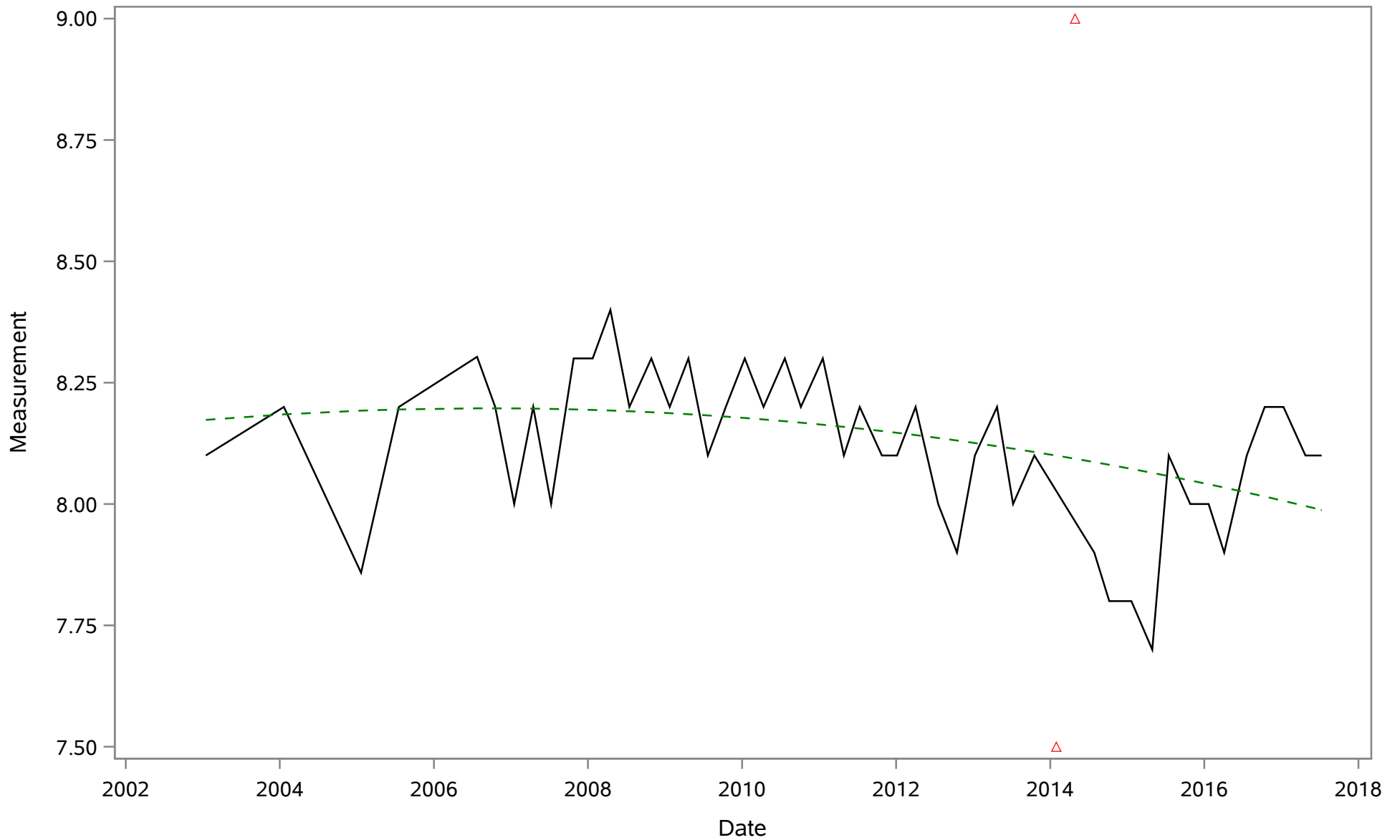
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Potassium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Residues- Filterable (TDS) (Dissolved) mg/L

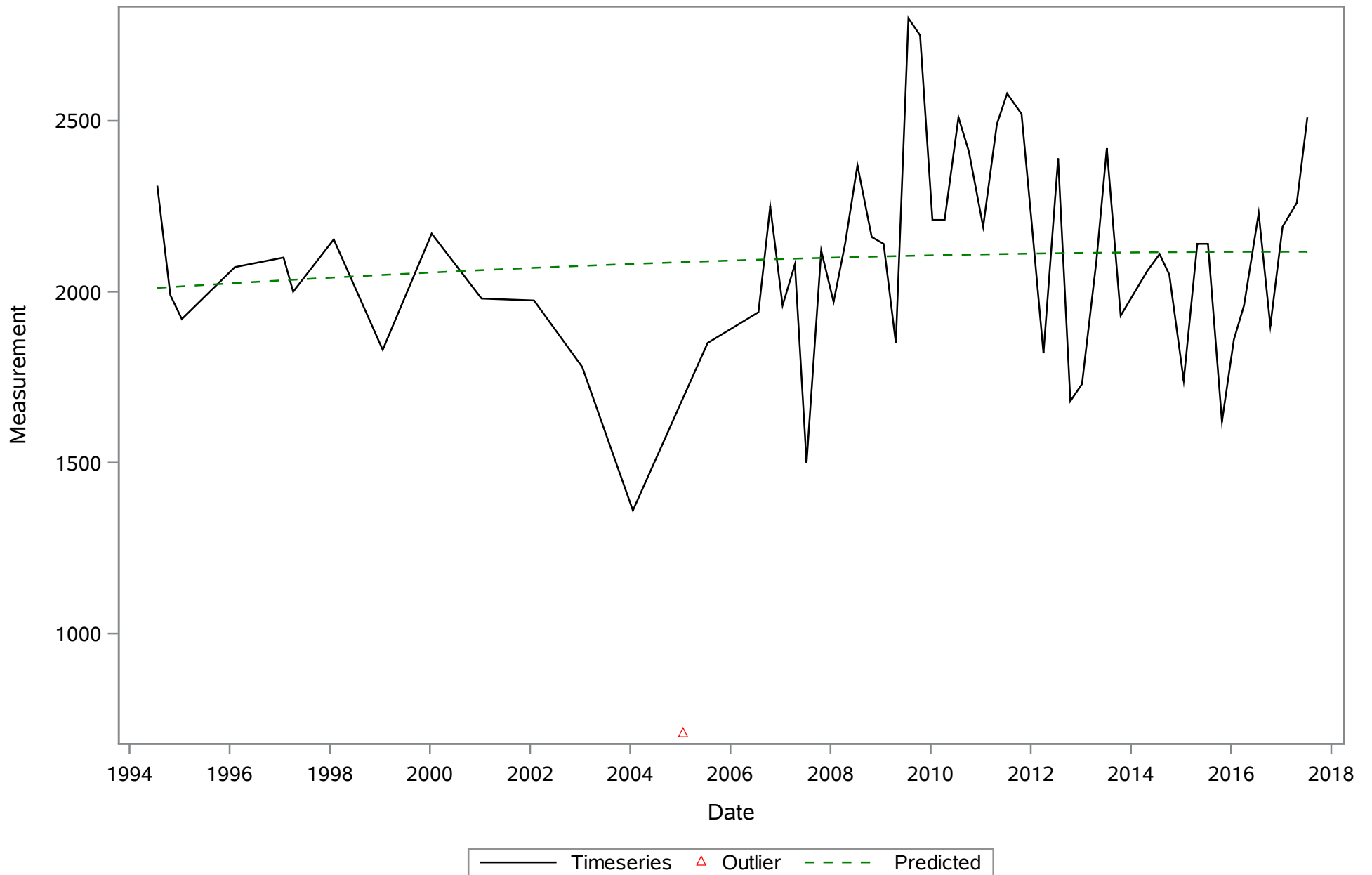


Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Silica- Dissolved (Dissolved) mg/L

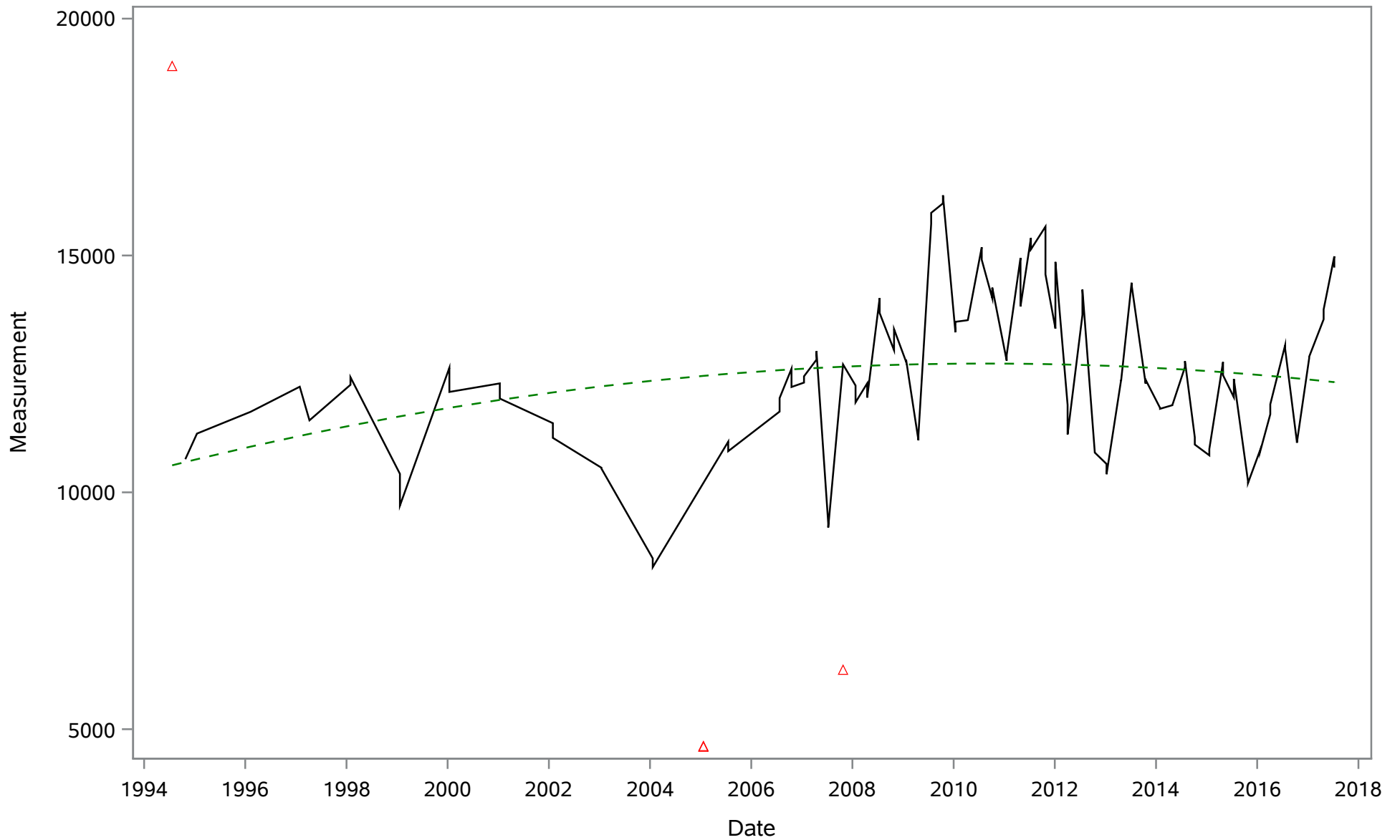


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sodium (Dissolved) mg/L

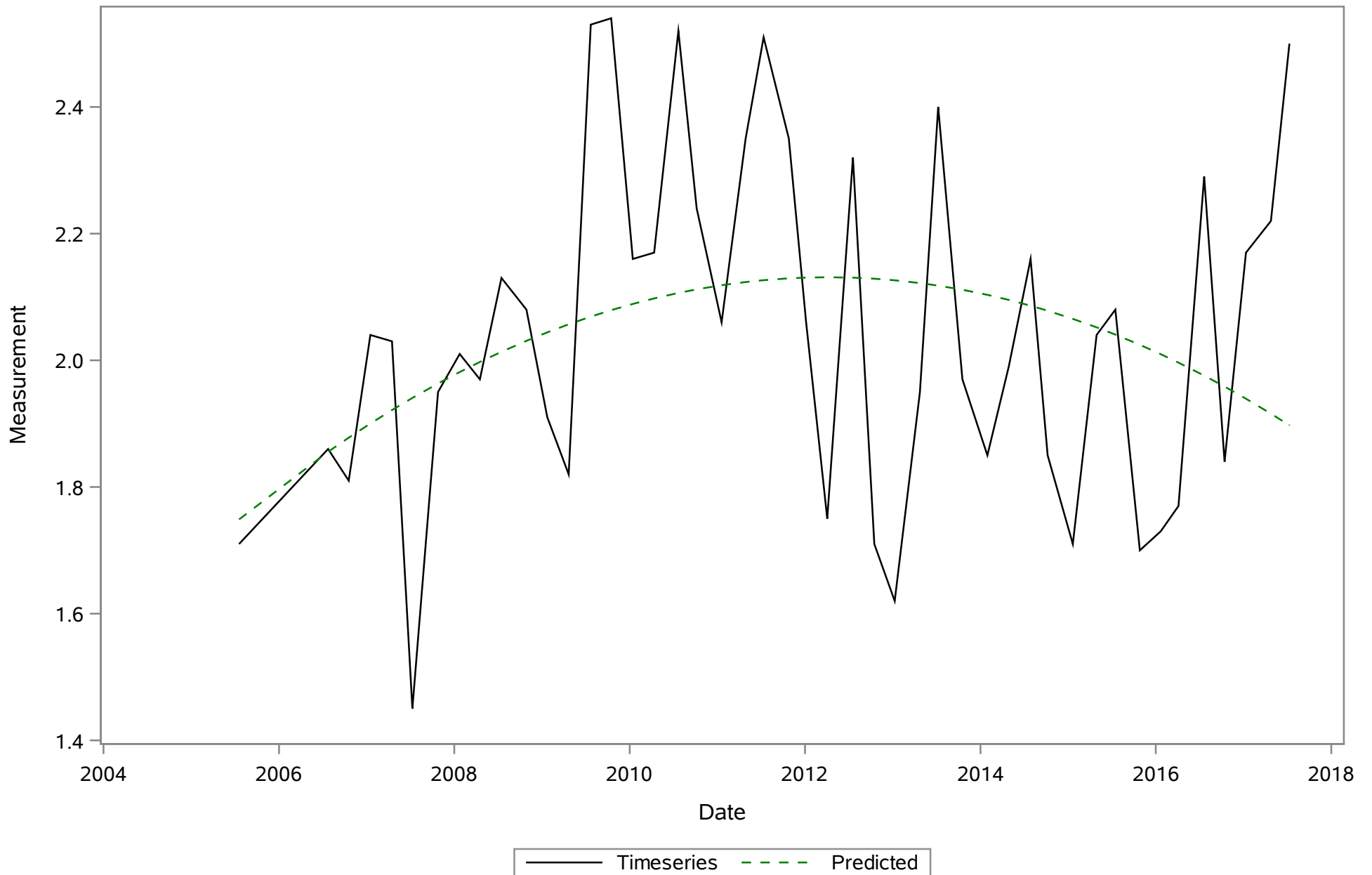


Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Specific Conductance (Total) uS/cm

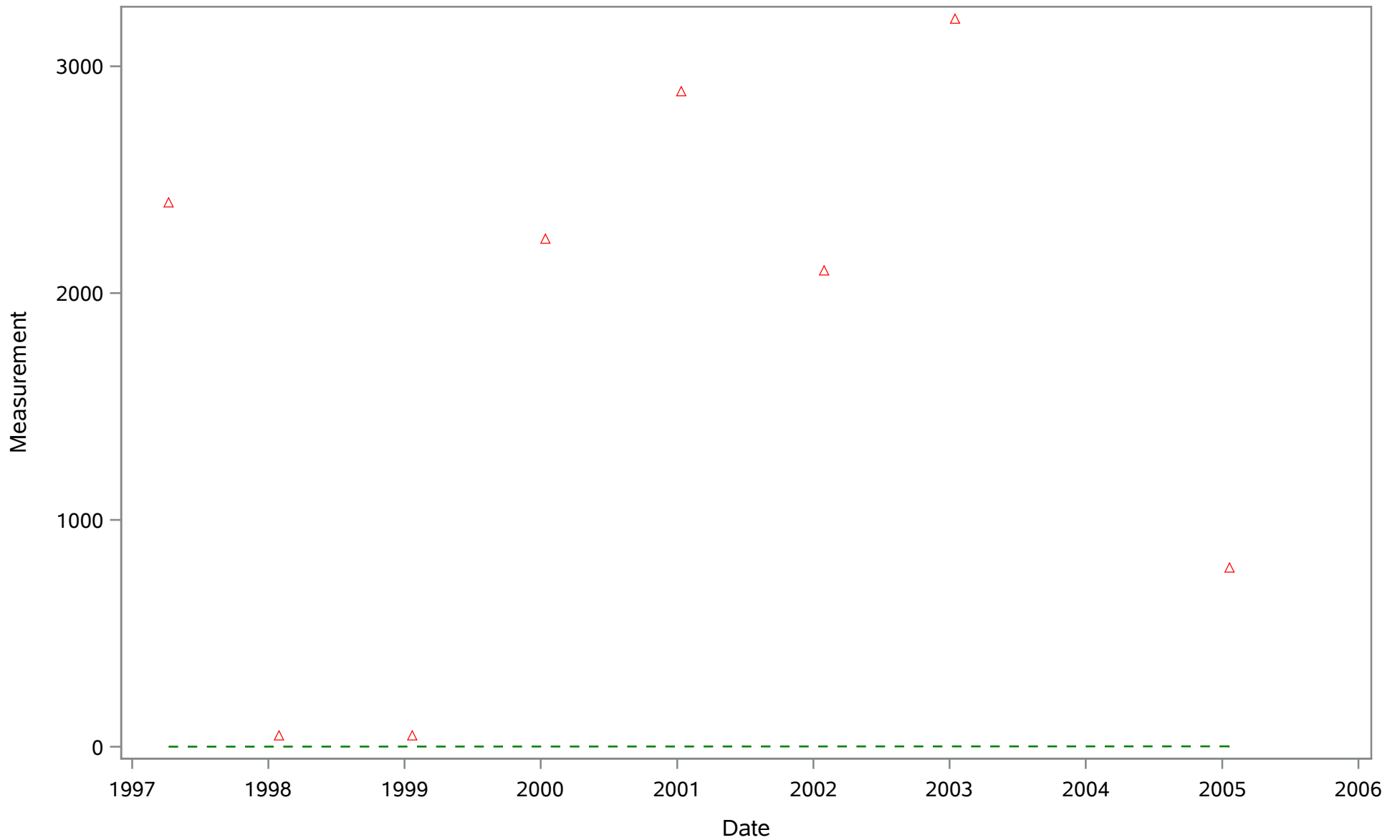


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) ug/L

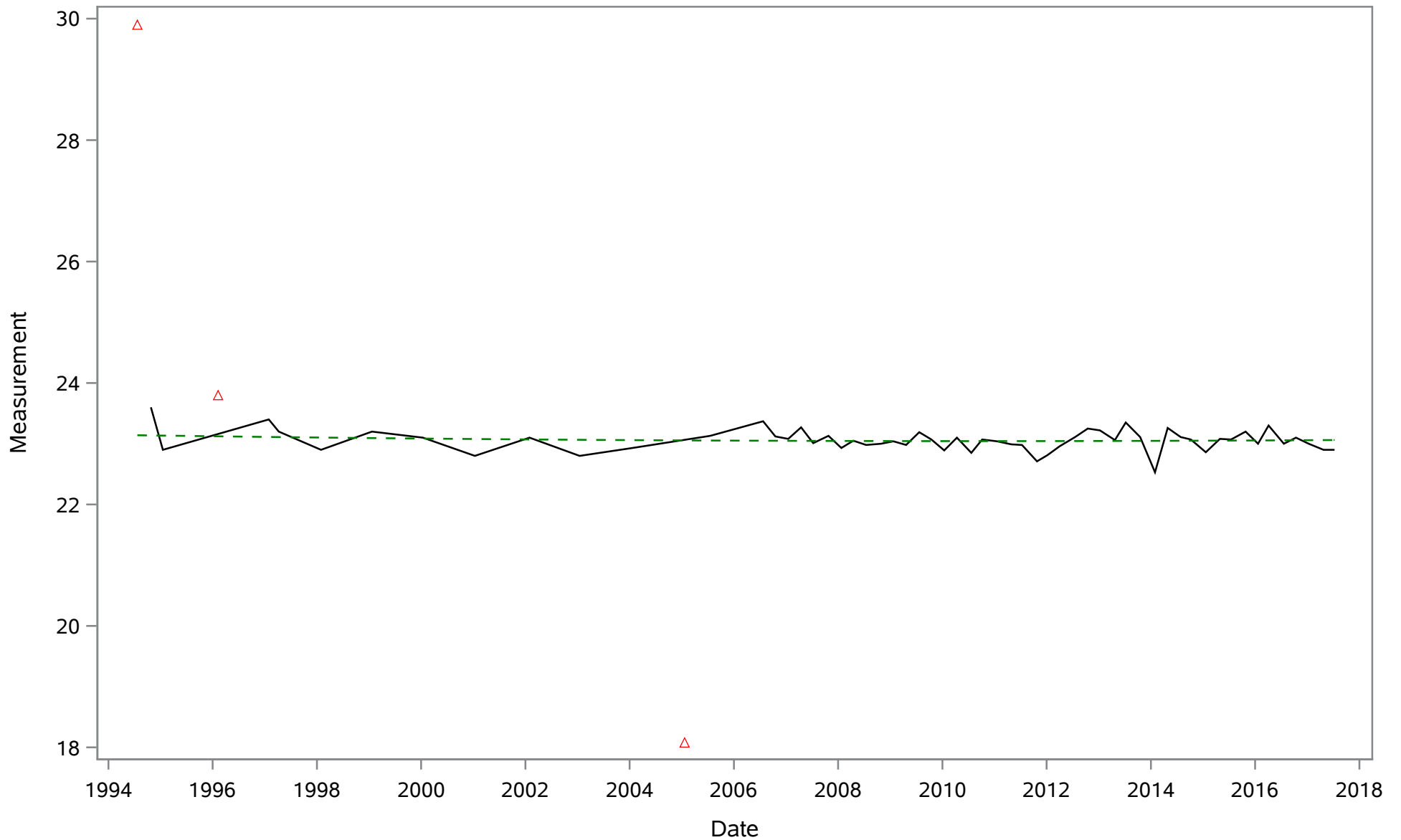


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sulfate (Dissolved) mg/L

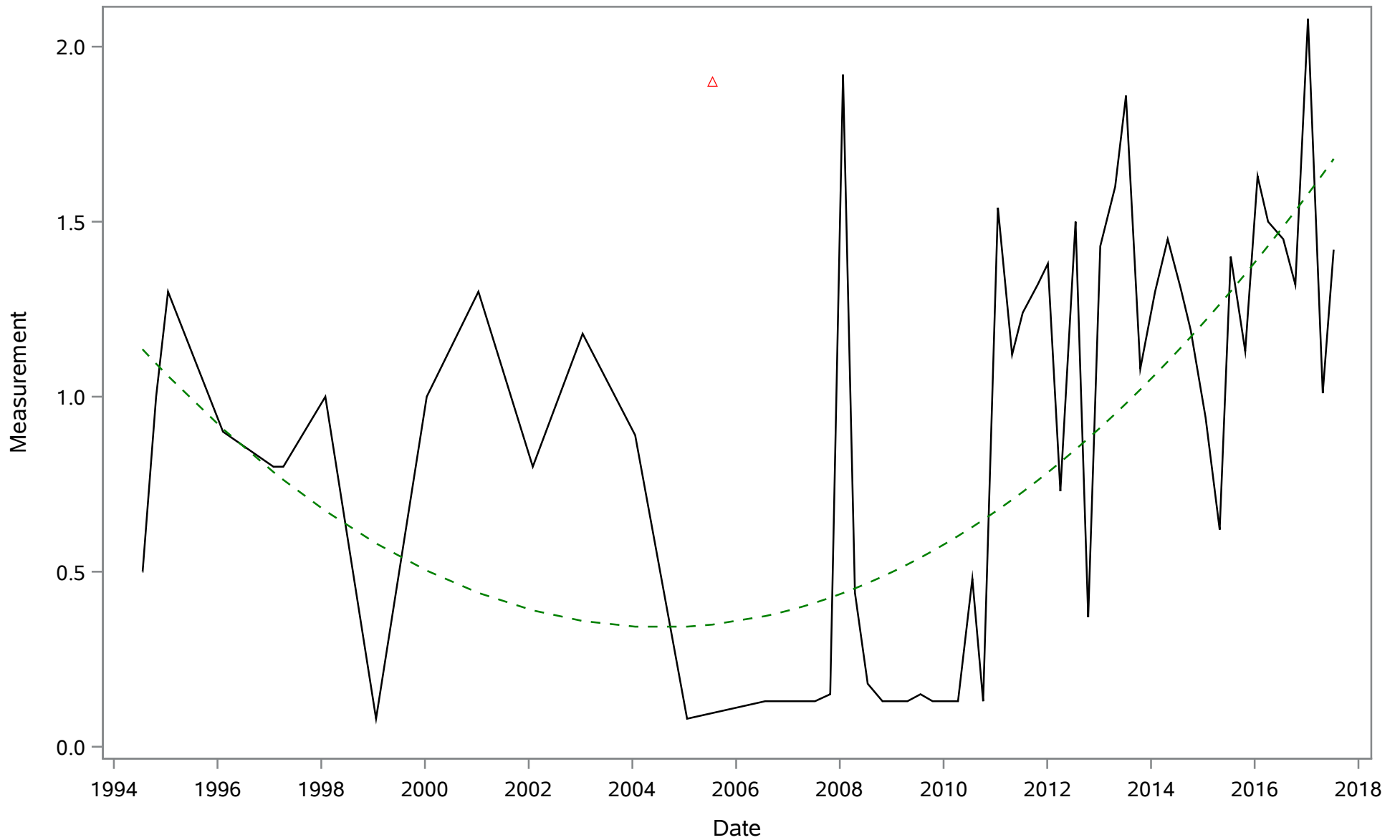


Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Temperature (Total) Deg. C



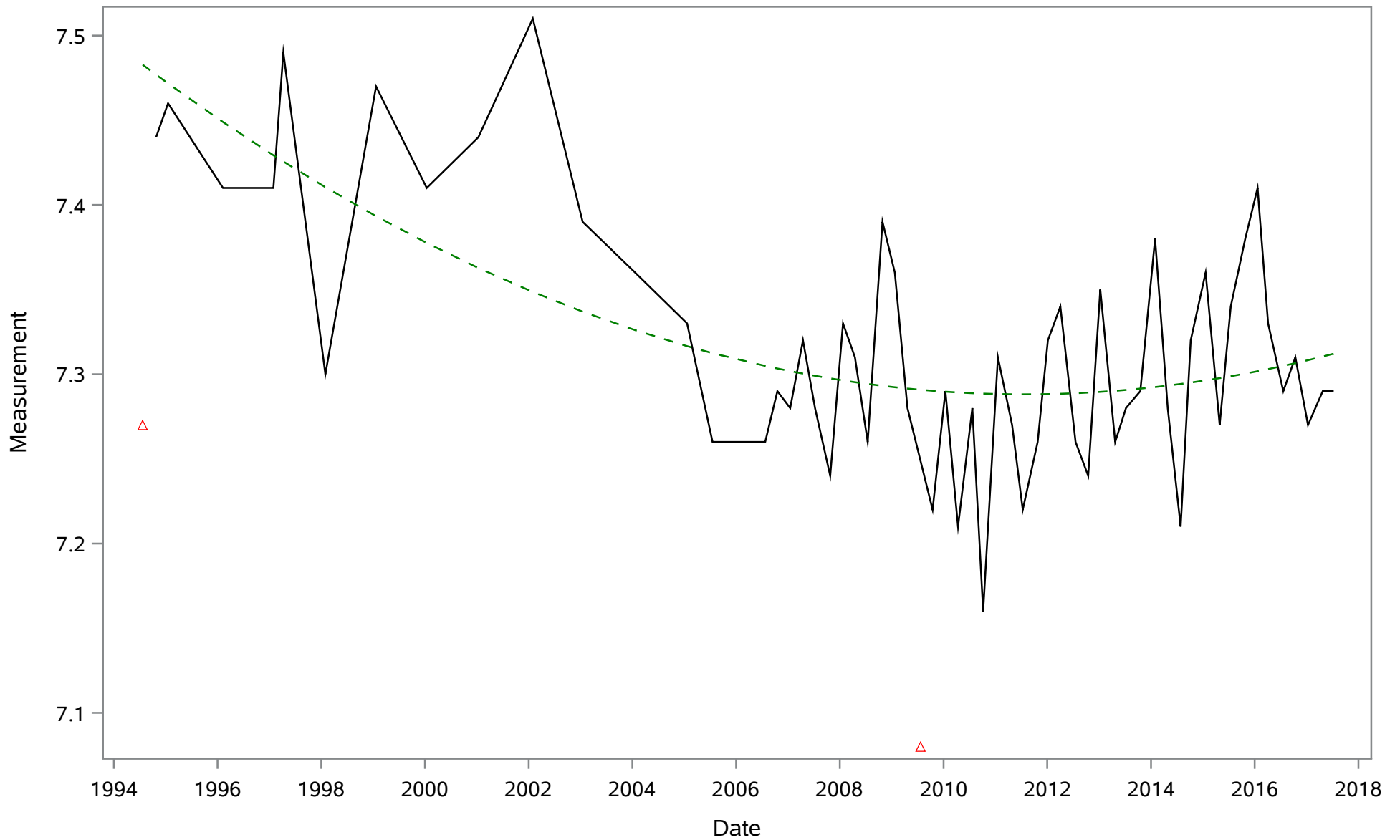
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Turbidity (Total) NTU



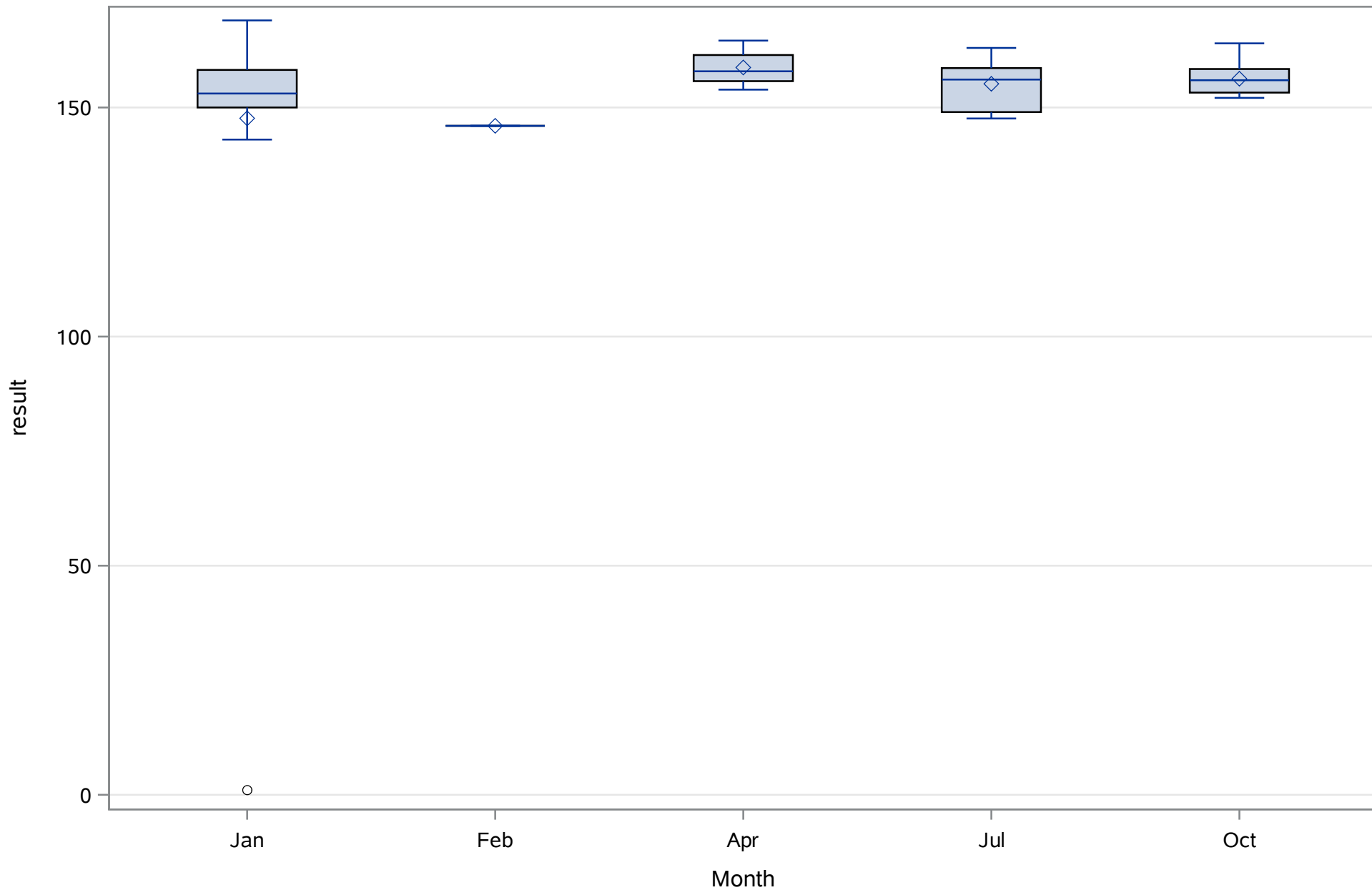
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
pH (Total) SU

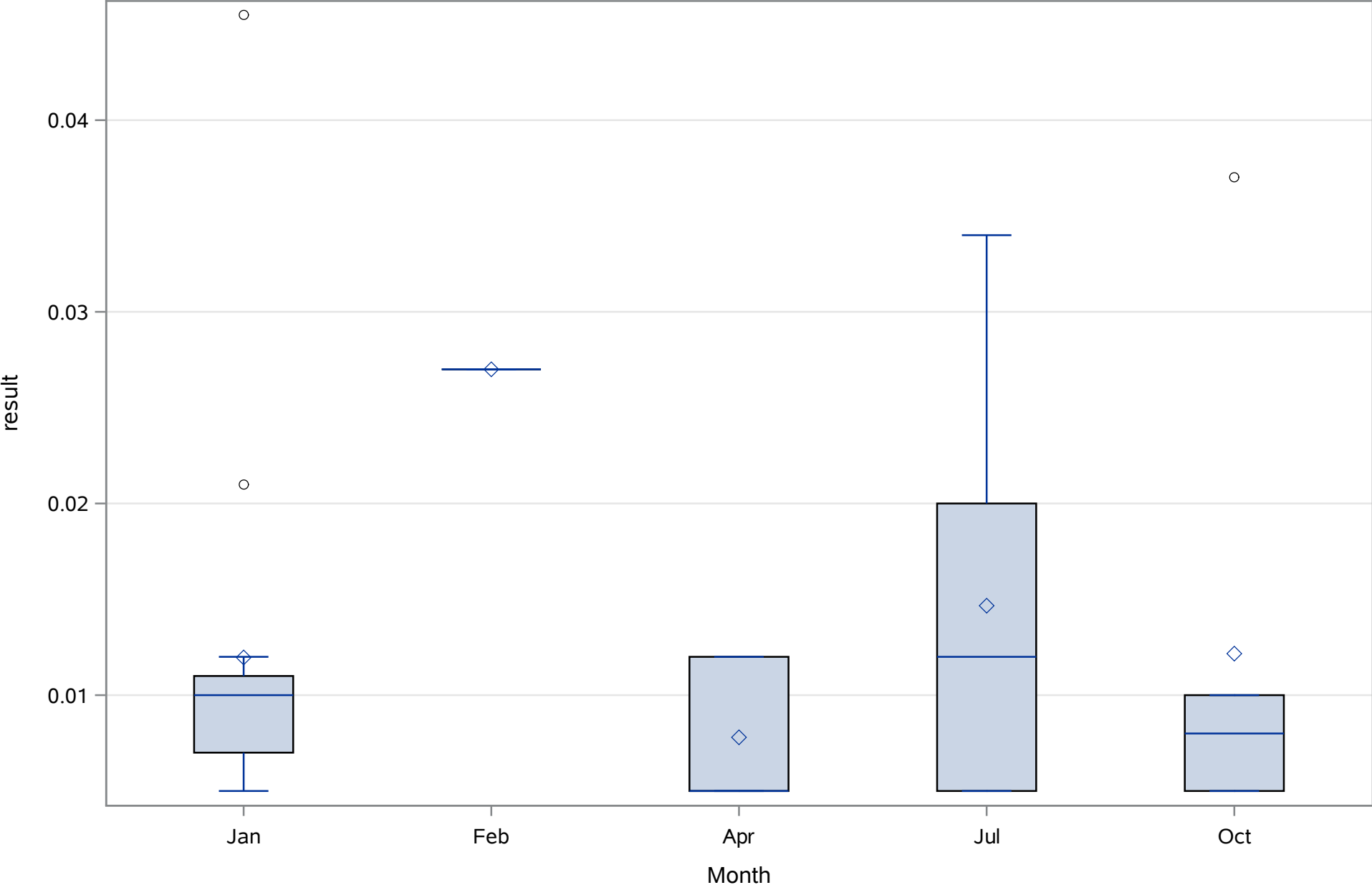


— Timeseries △ Outlier - - - Predicted

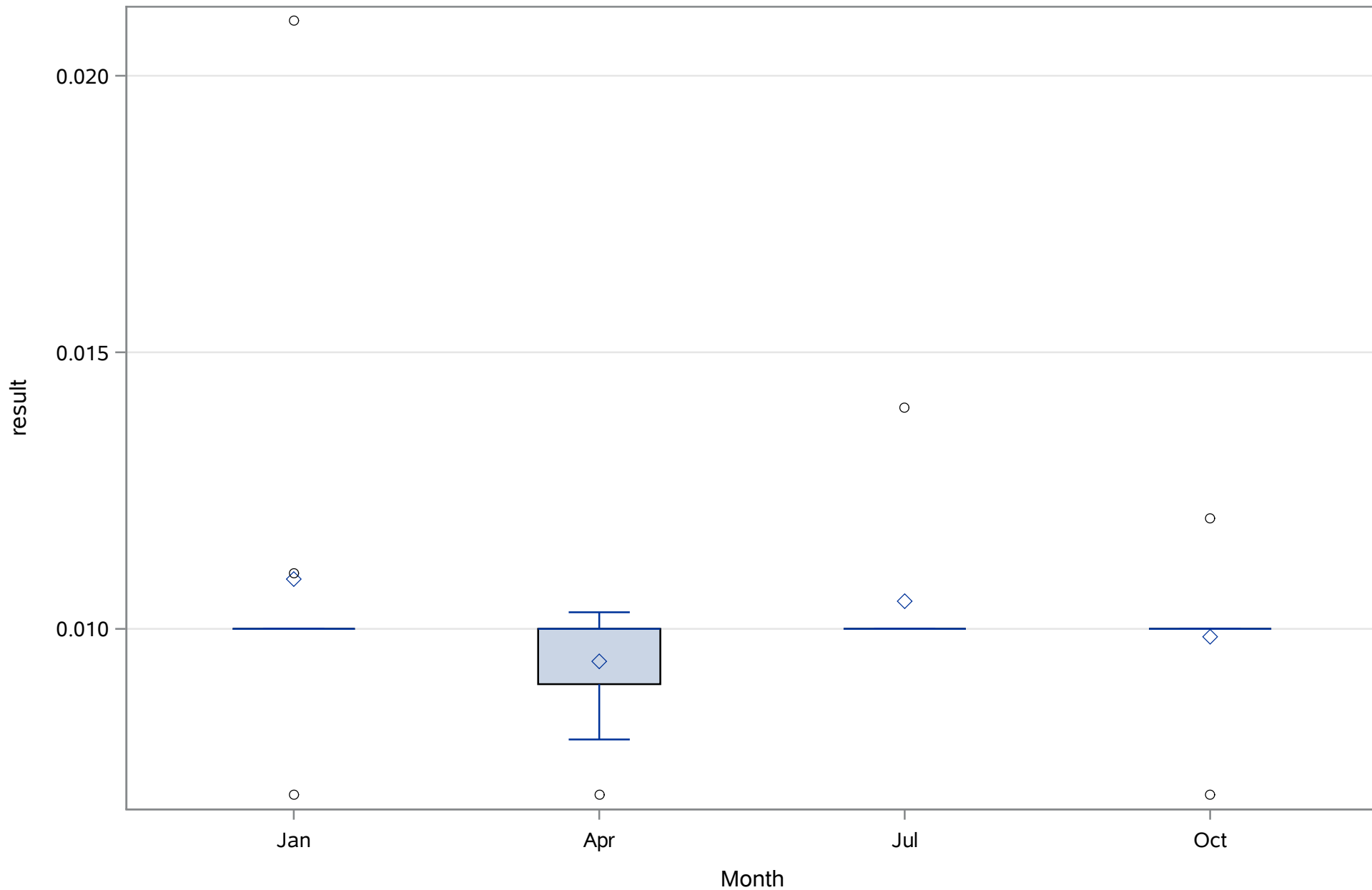
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Alkalinity (Total) mg/L



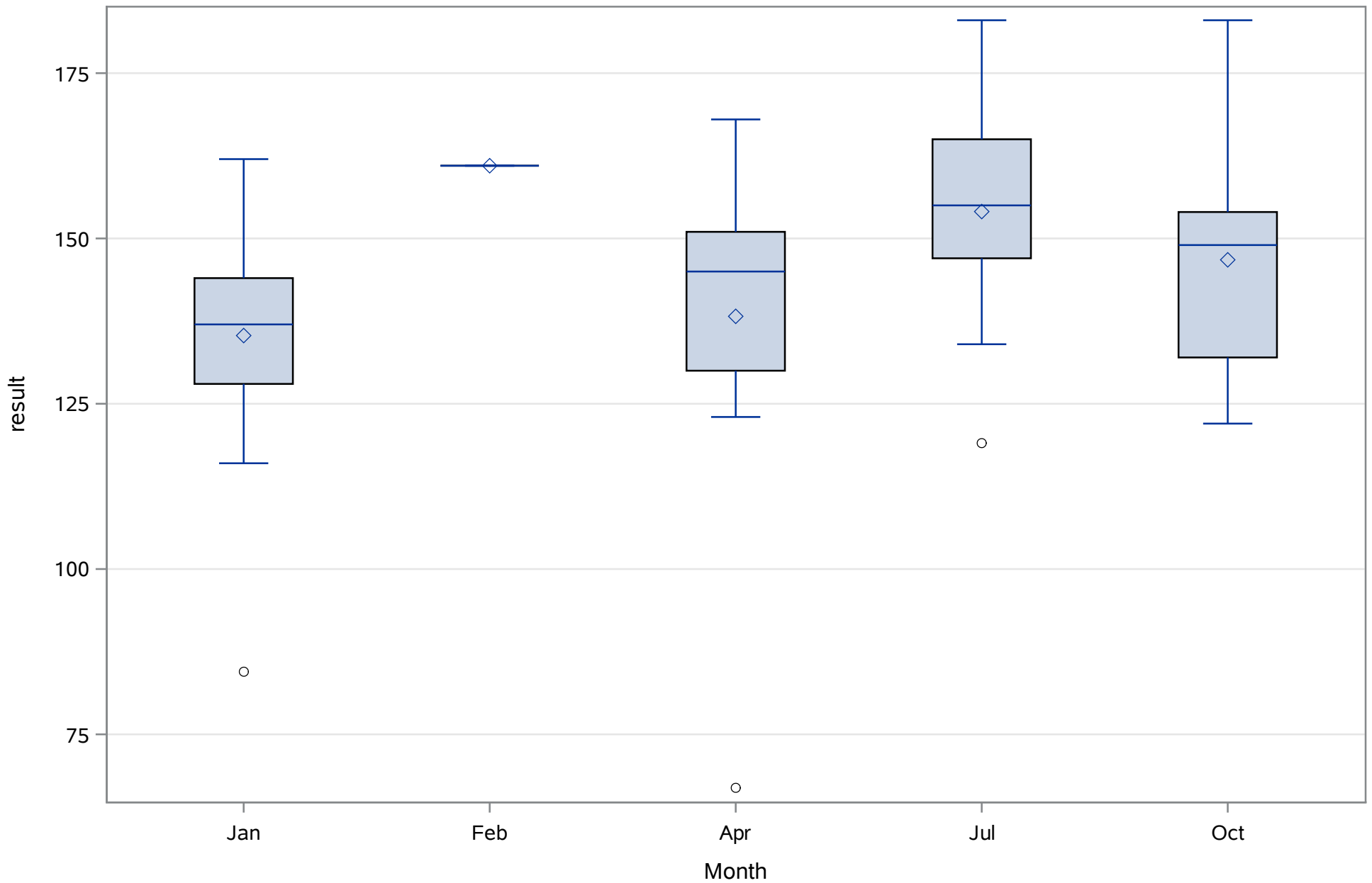
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Dissolved) mg/L



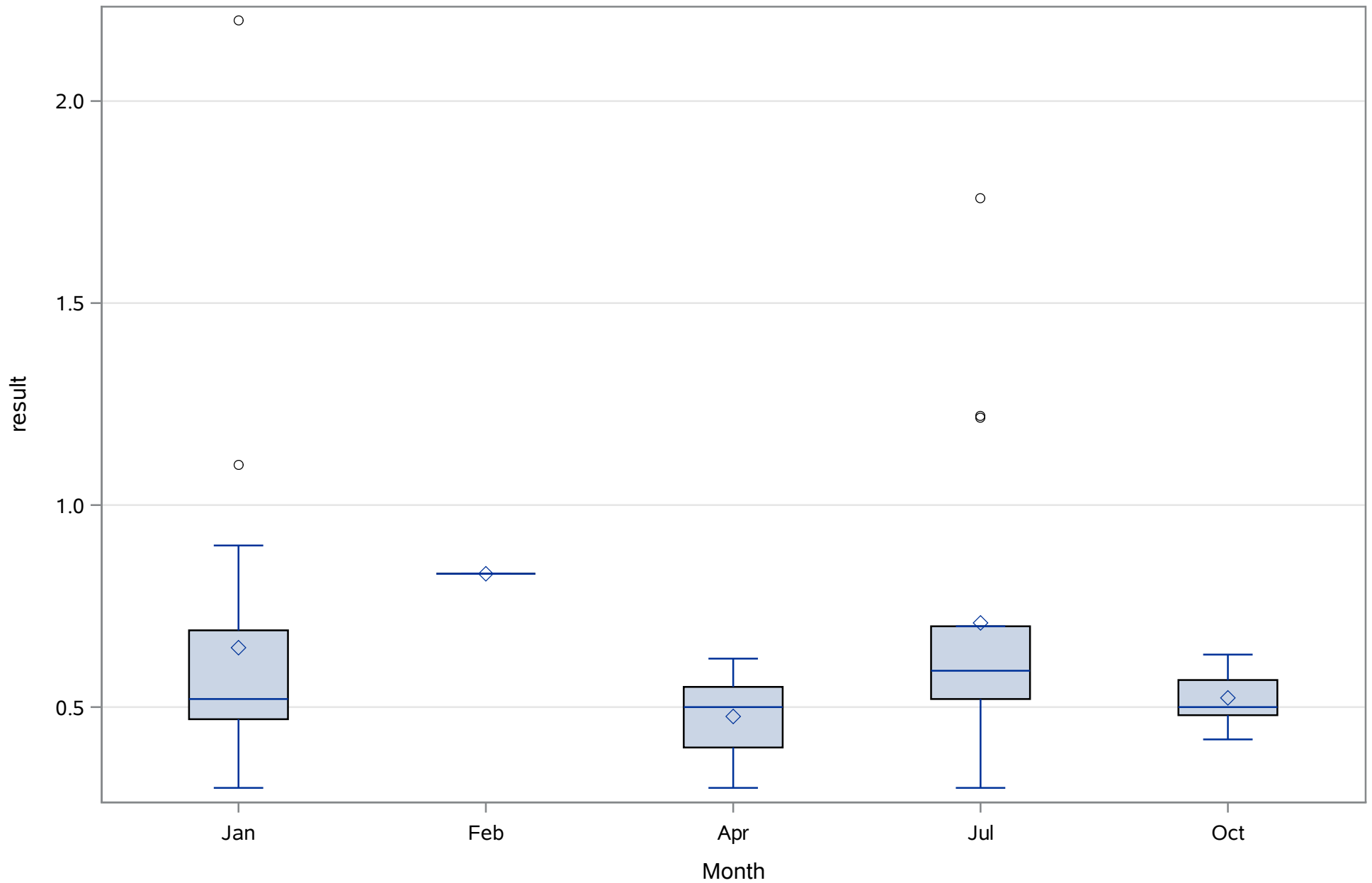
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Ammonia (N) (Total) mg/L



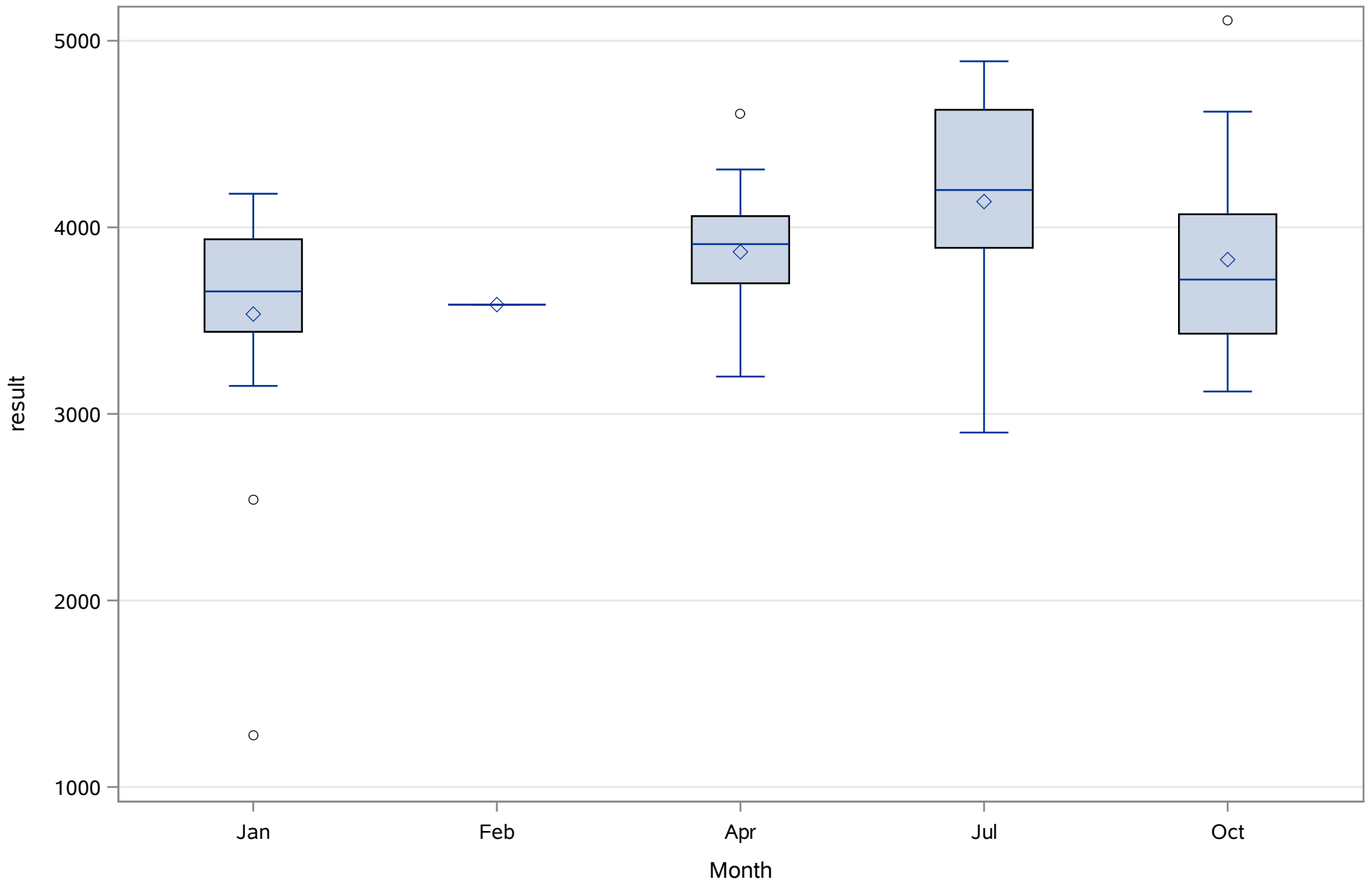
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Calcium (Dissolved) mg/L



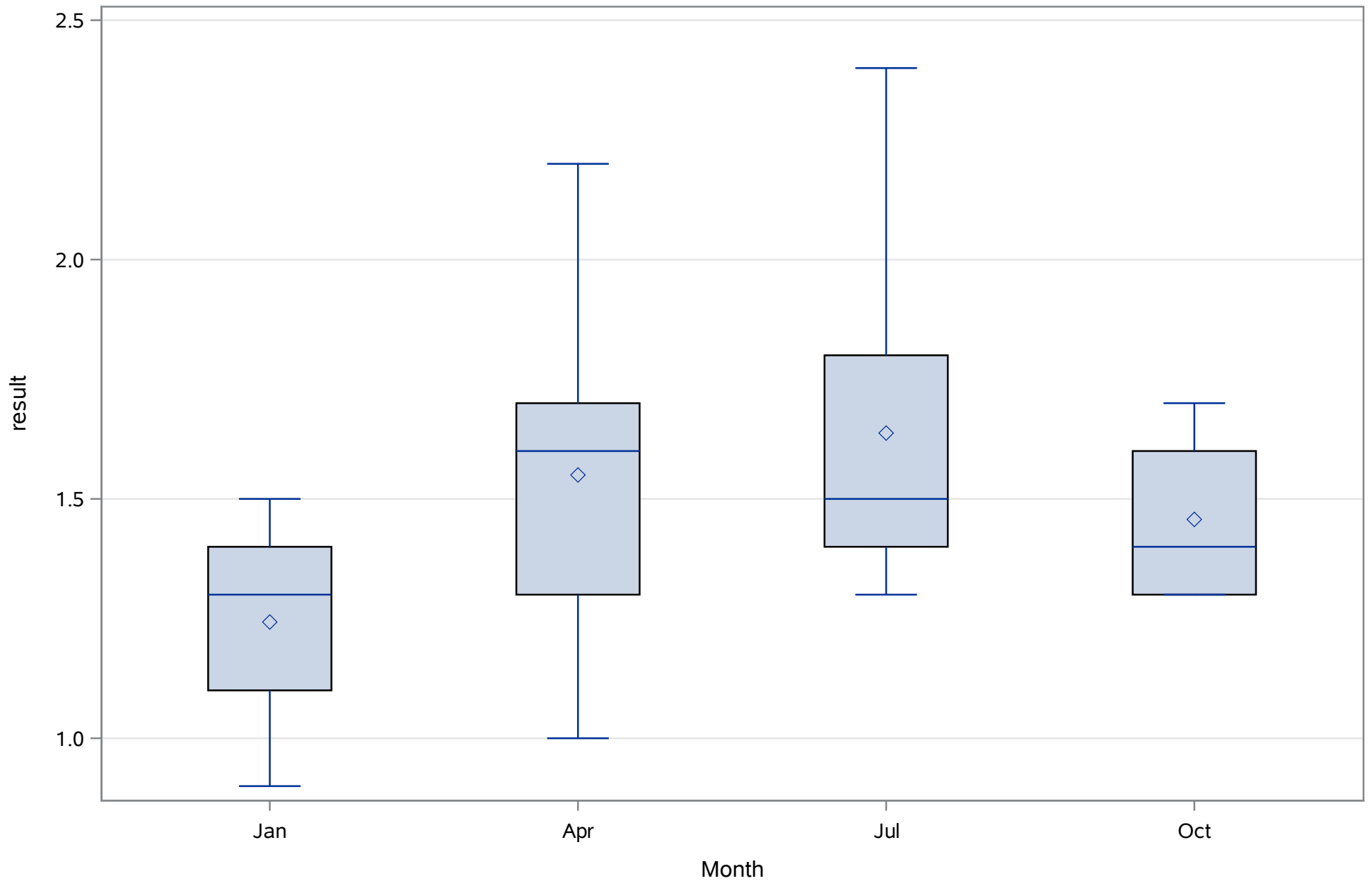
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Carbon- Total Organic (Total) mg/L



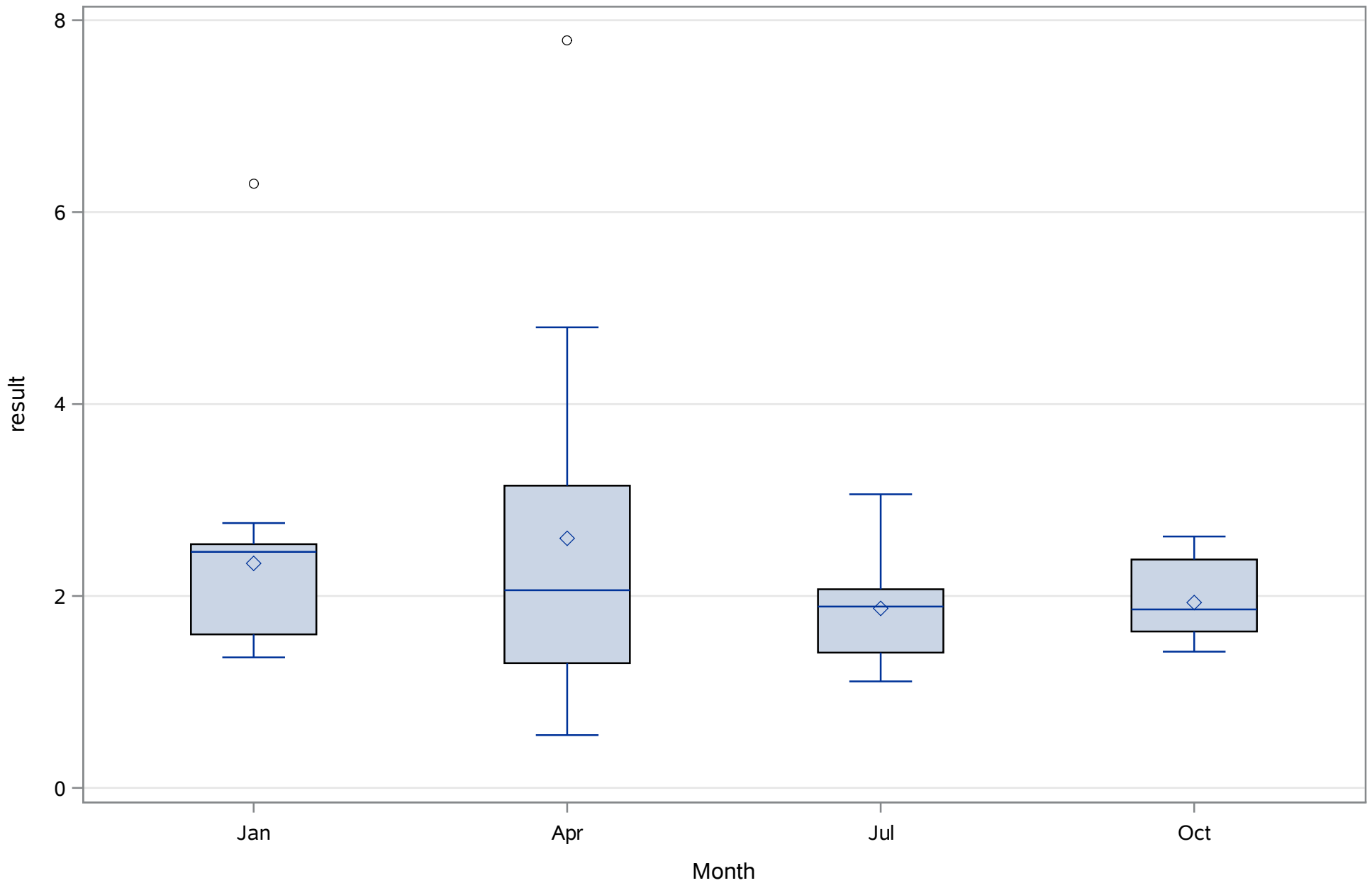
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Chloride (Dissolved) mg/L



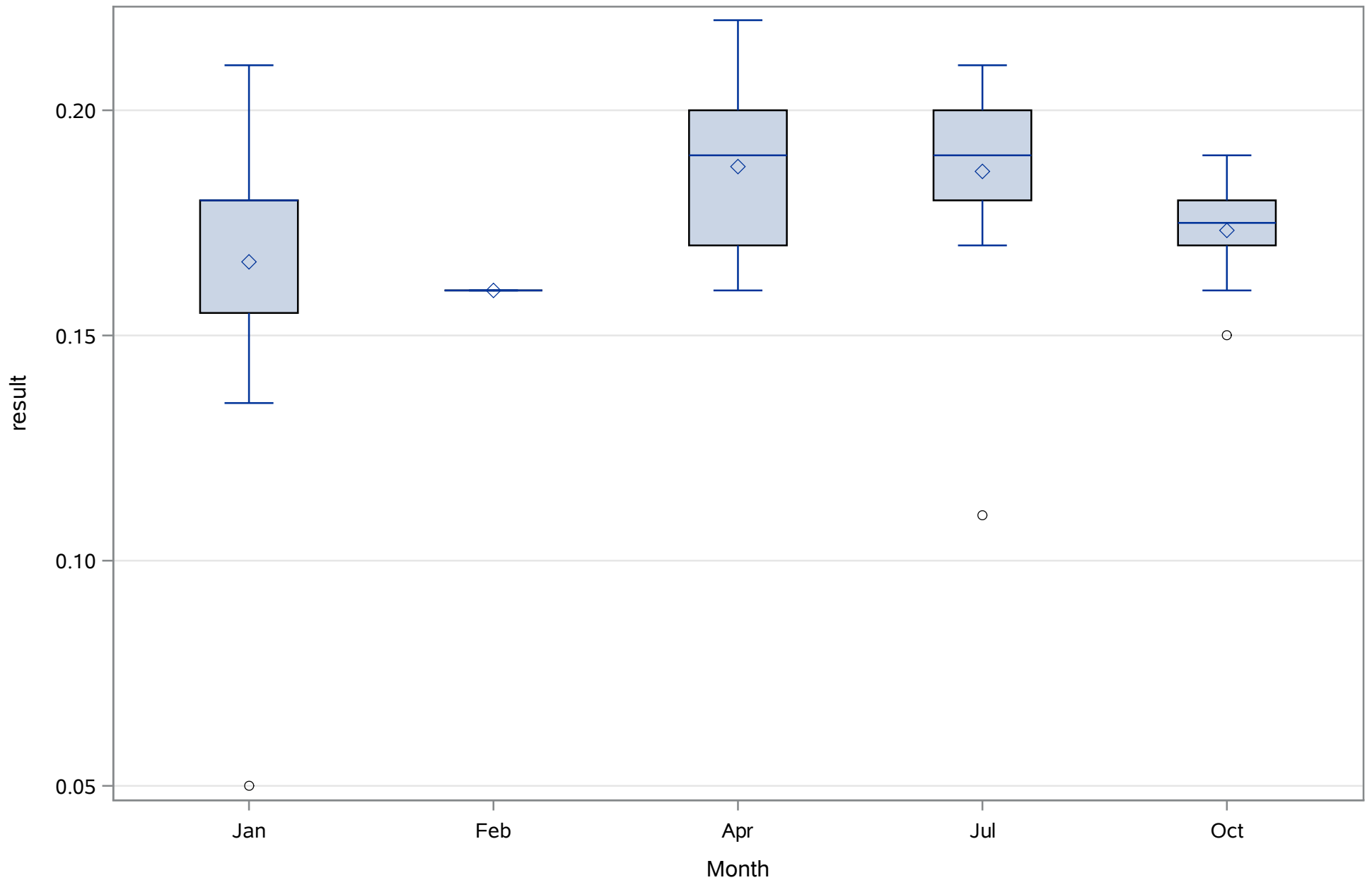
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Color (Dissolved) PCU



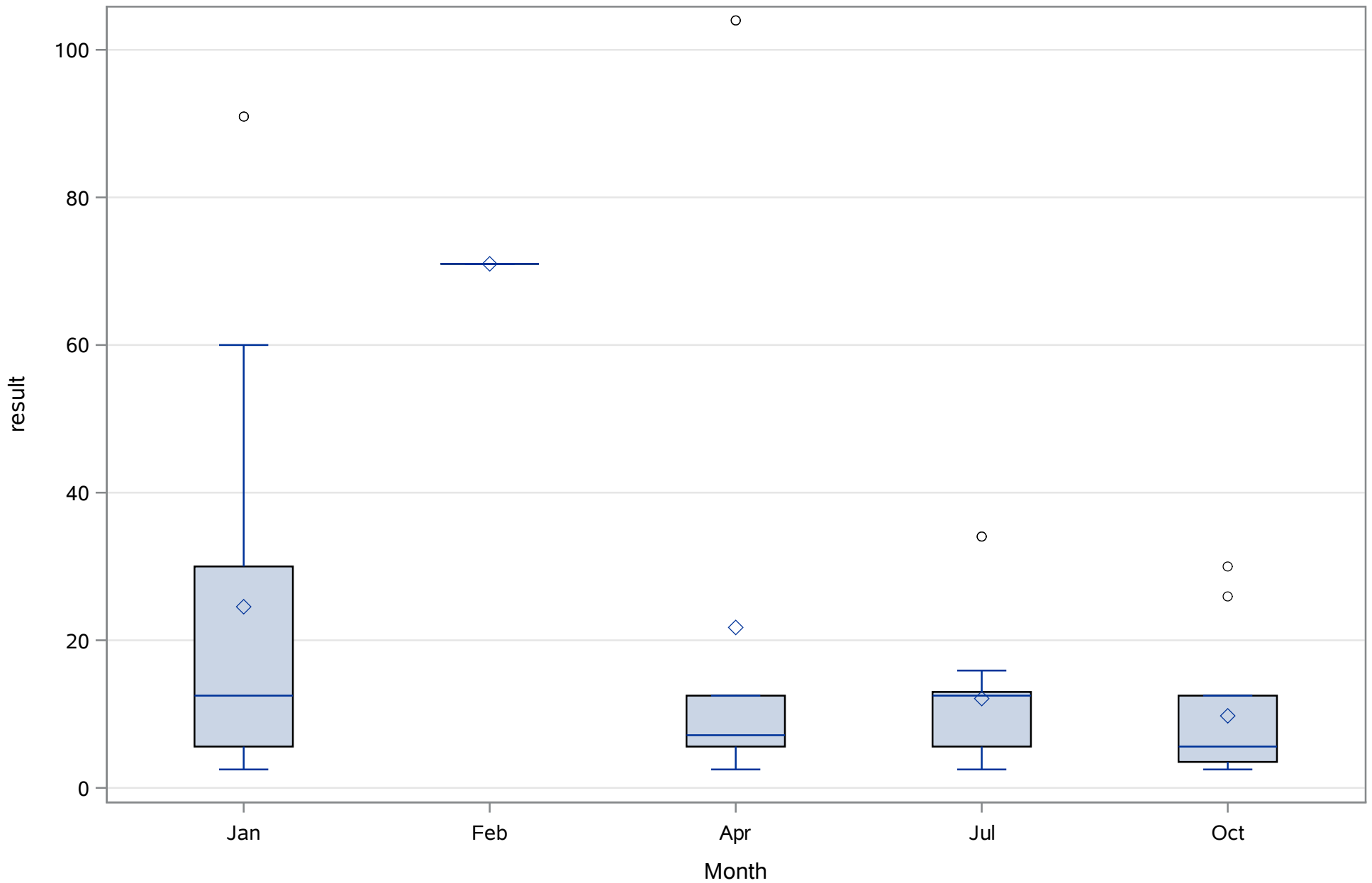
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Dissolved Oxygen (Total) mg/L



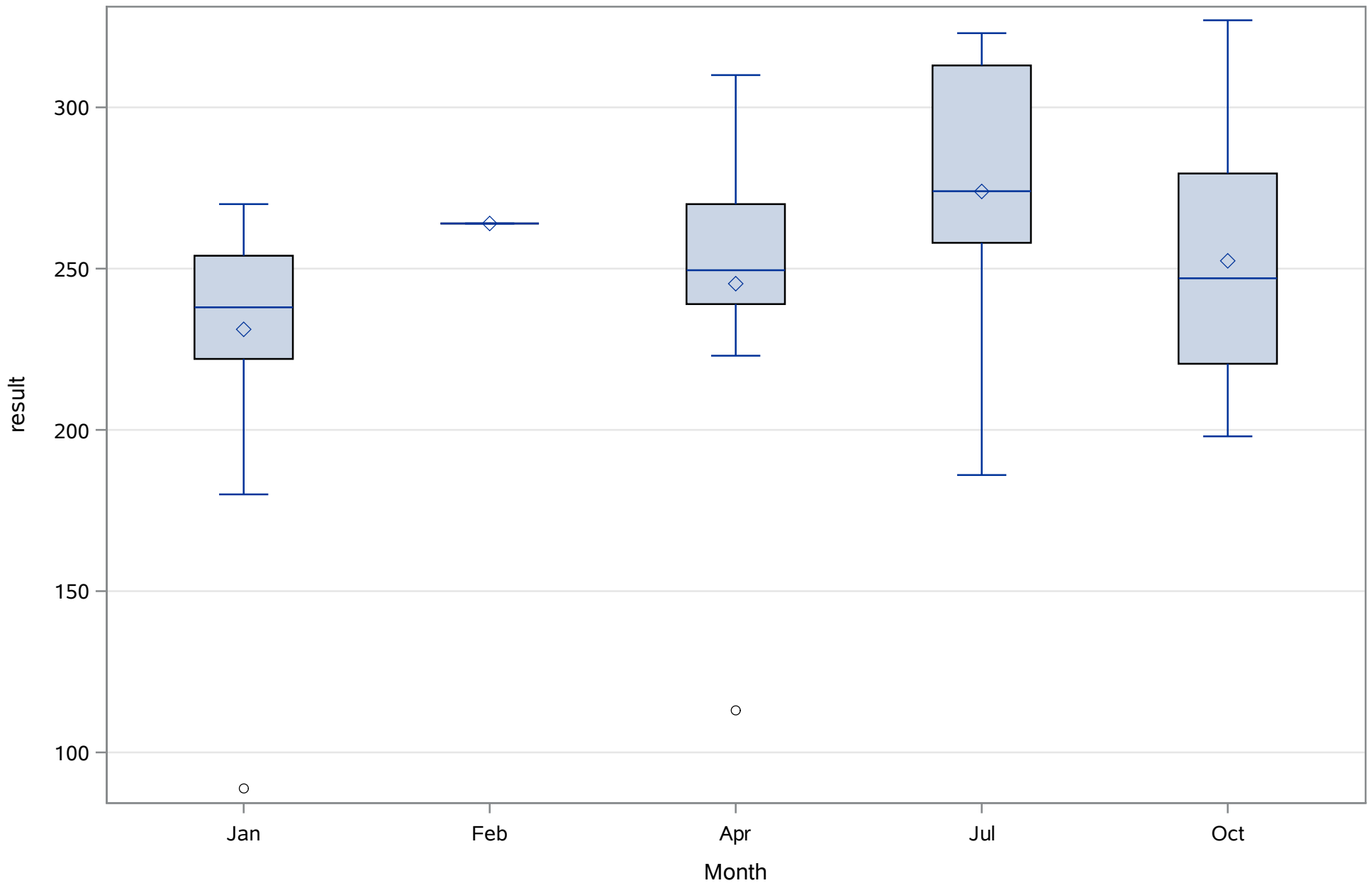
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Fluoride (Dissolved) mg/L



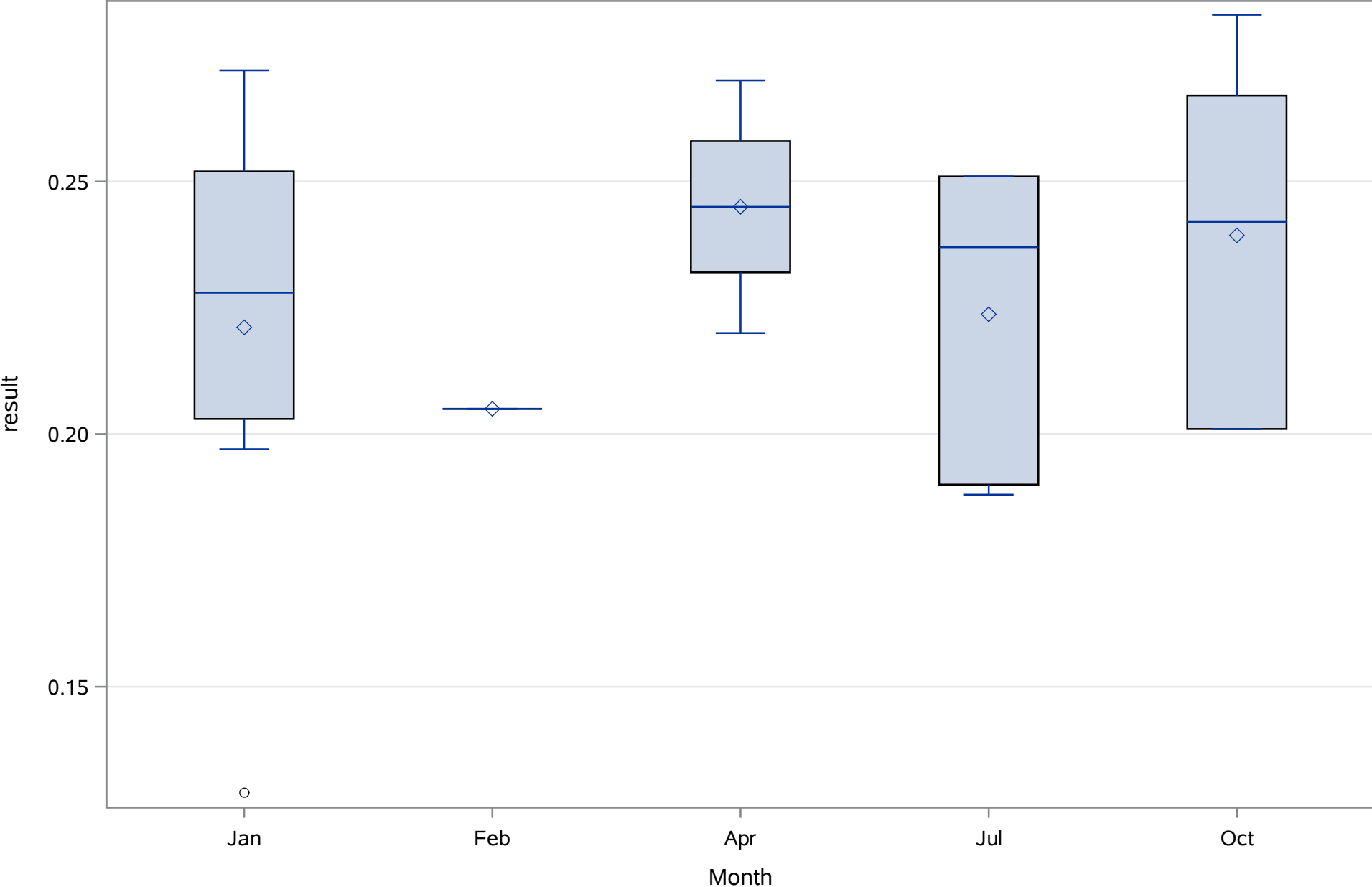
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Iron (Dissolved) ug/L



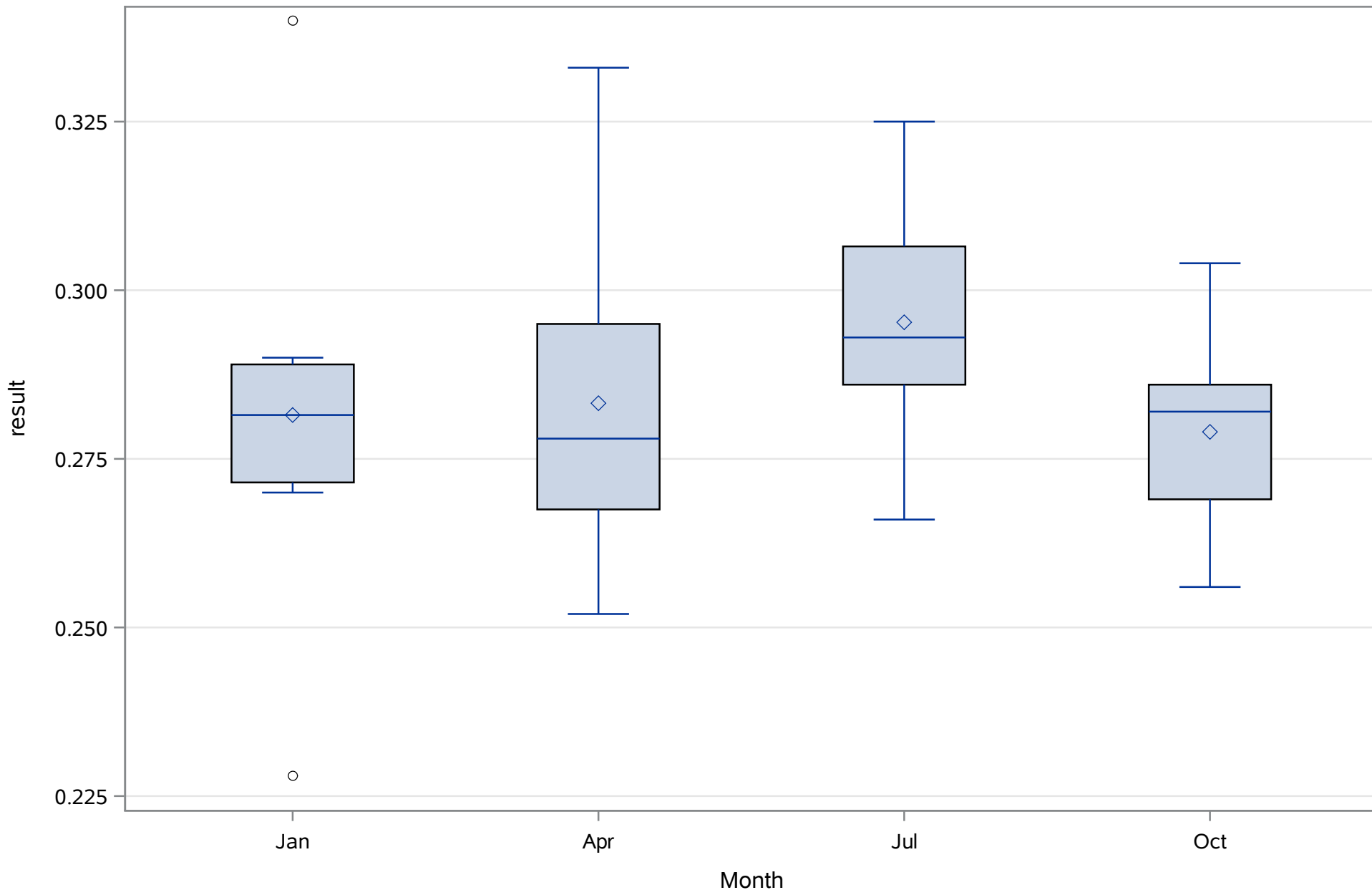
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Magnesium (Dissolved) mg/L



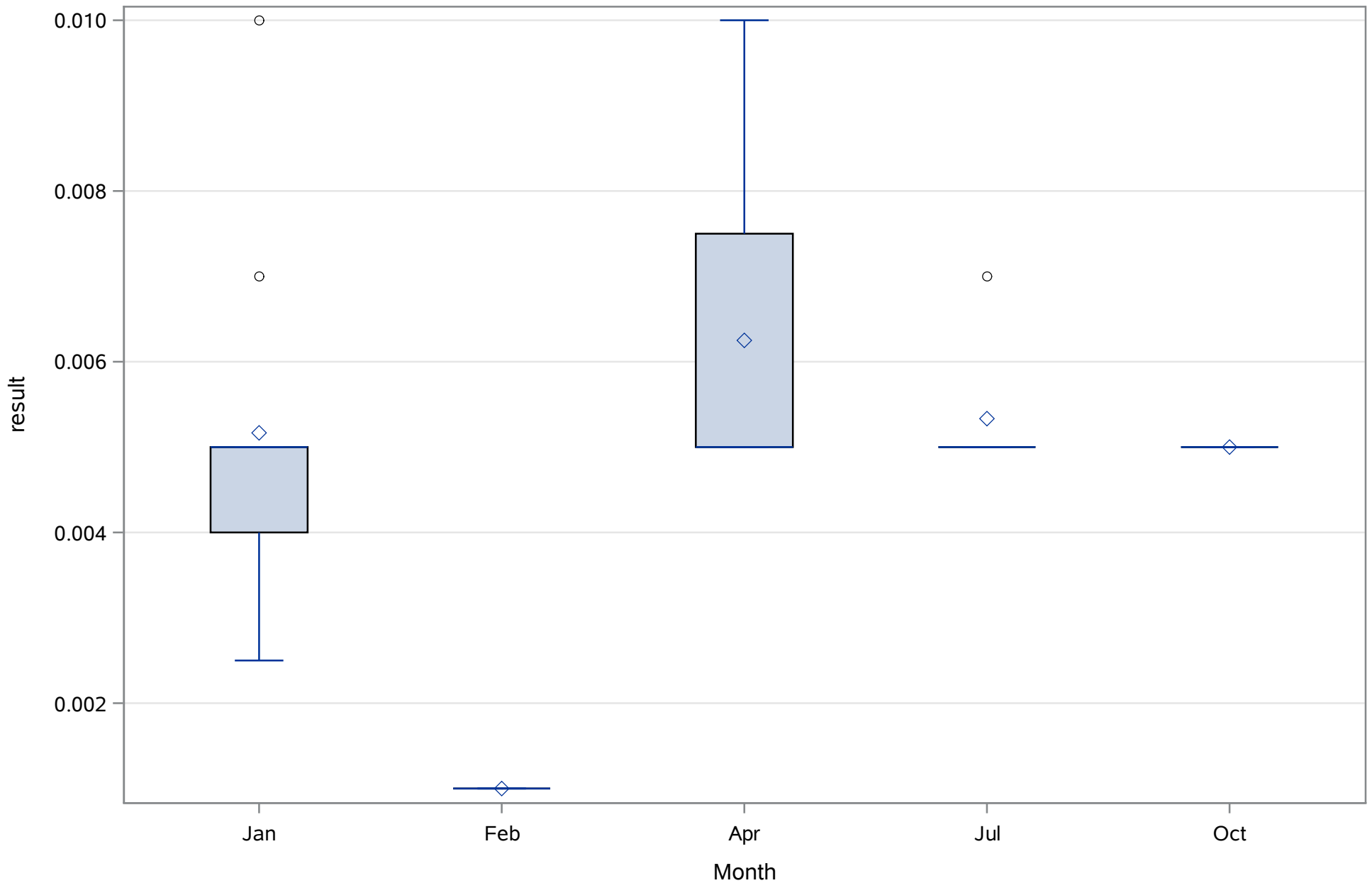
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



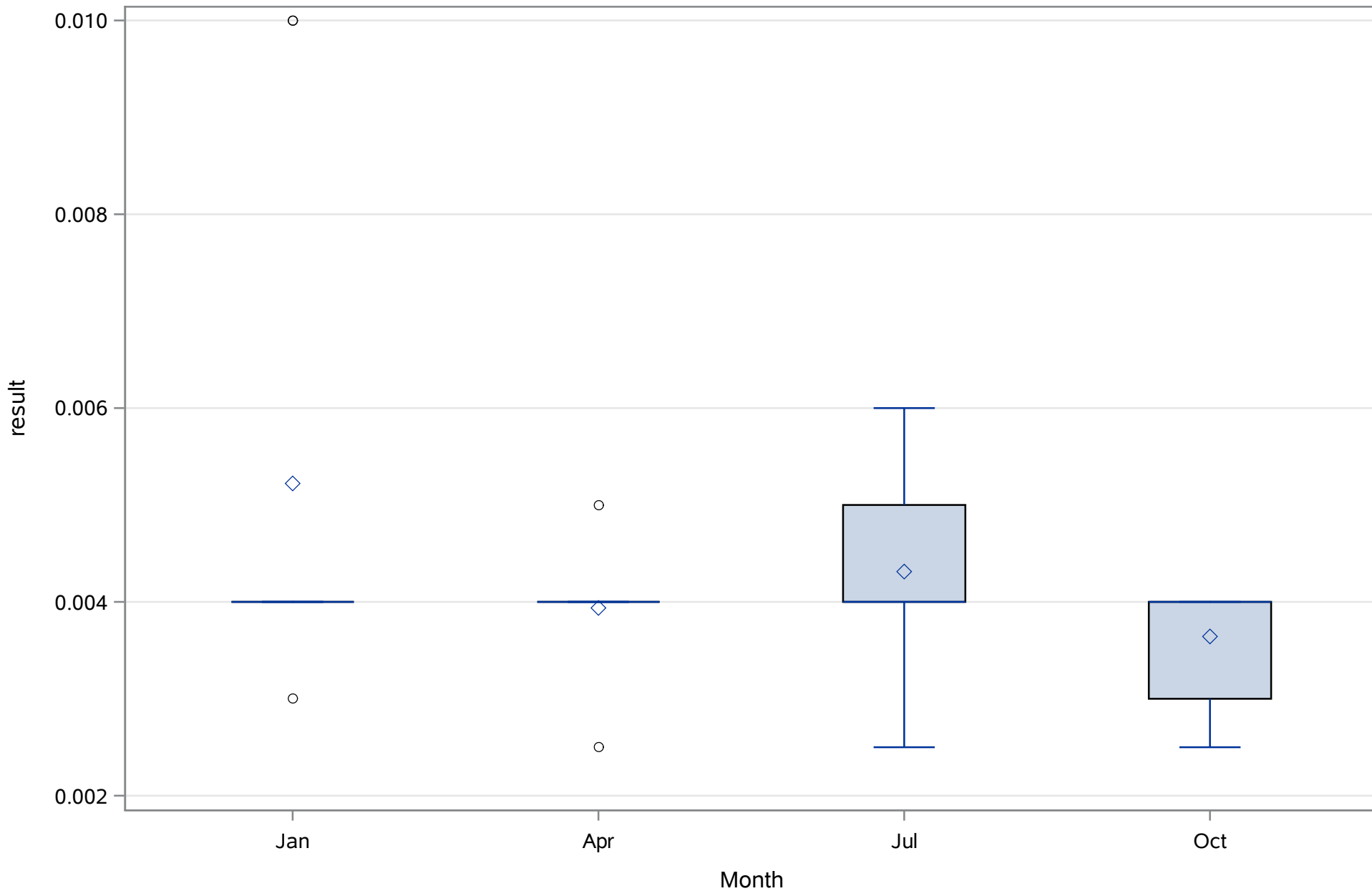
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrate-Nitrite (N) (Total) mg/L



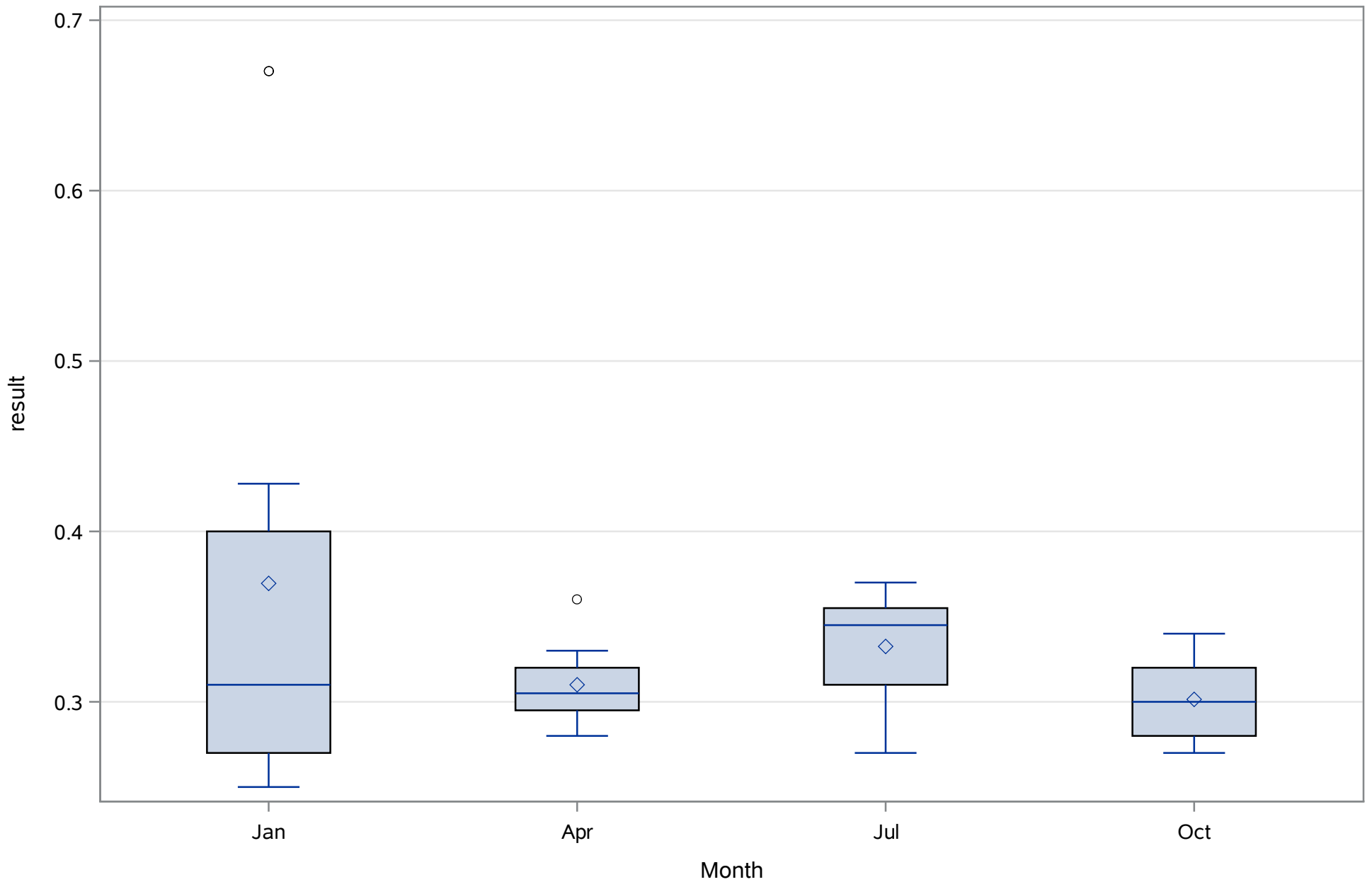
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Dissolved) mg/L



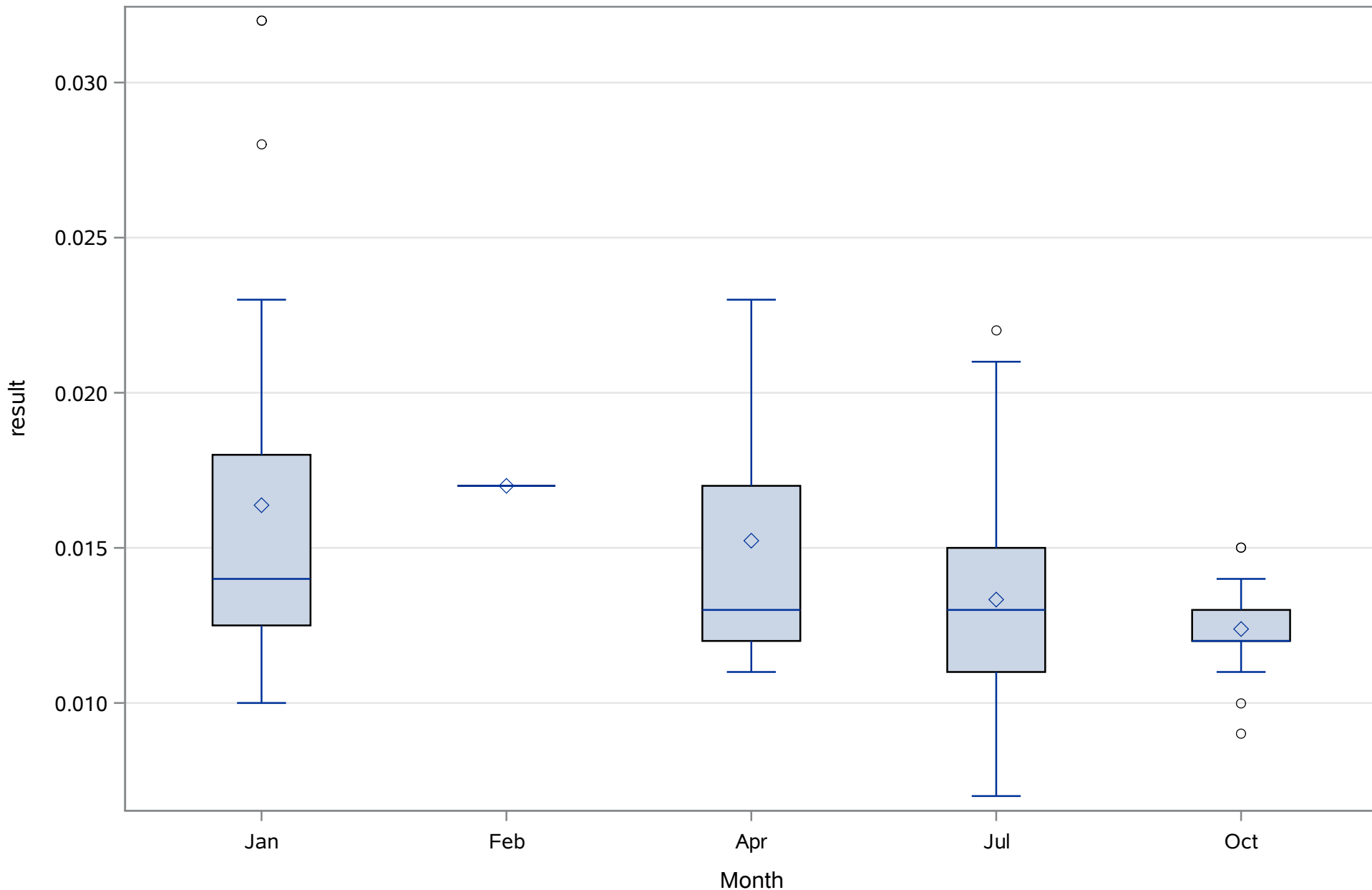
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrite (N) (Total) mg/L



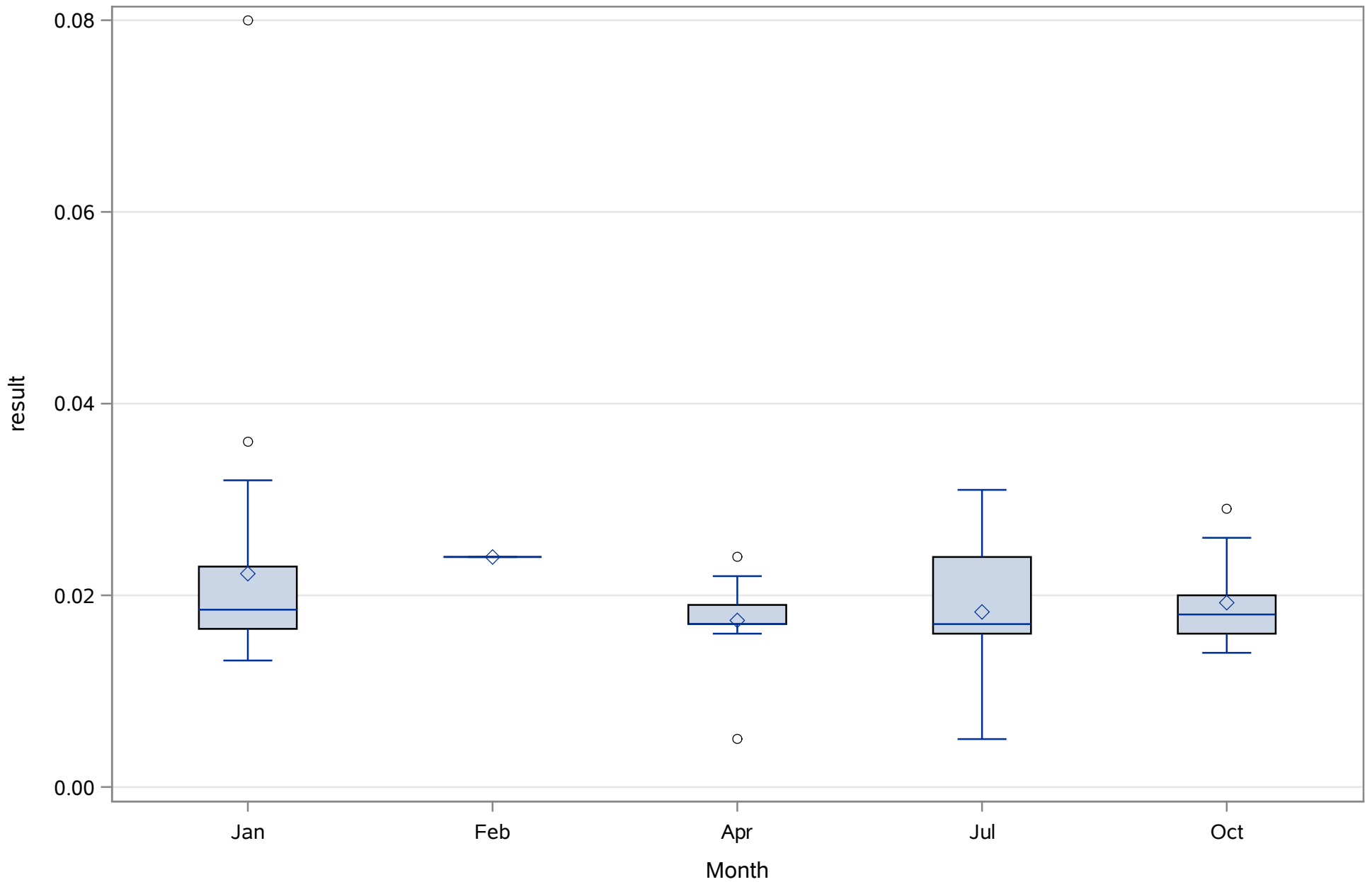
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Nitrogen- Total (Total) mg/L



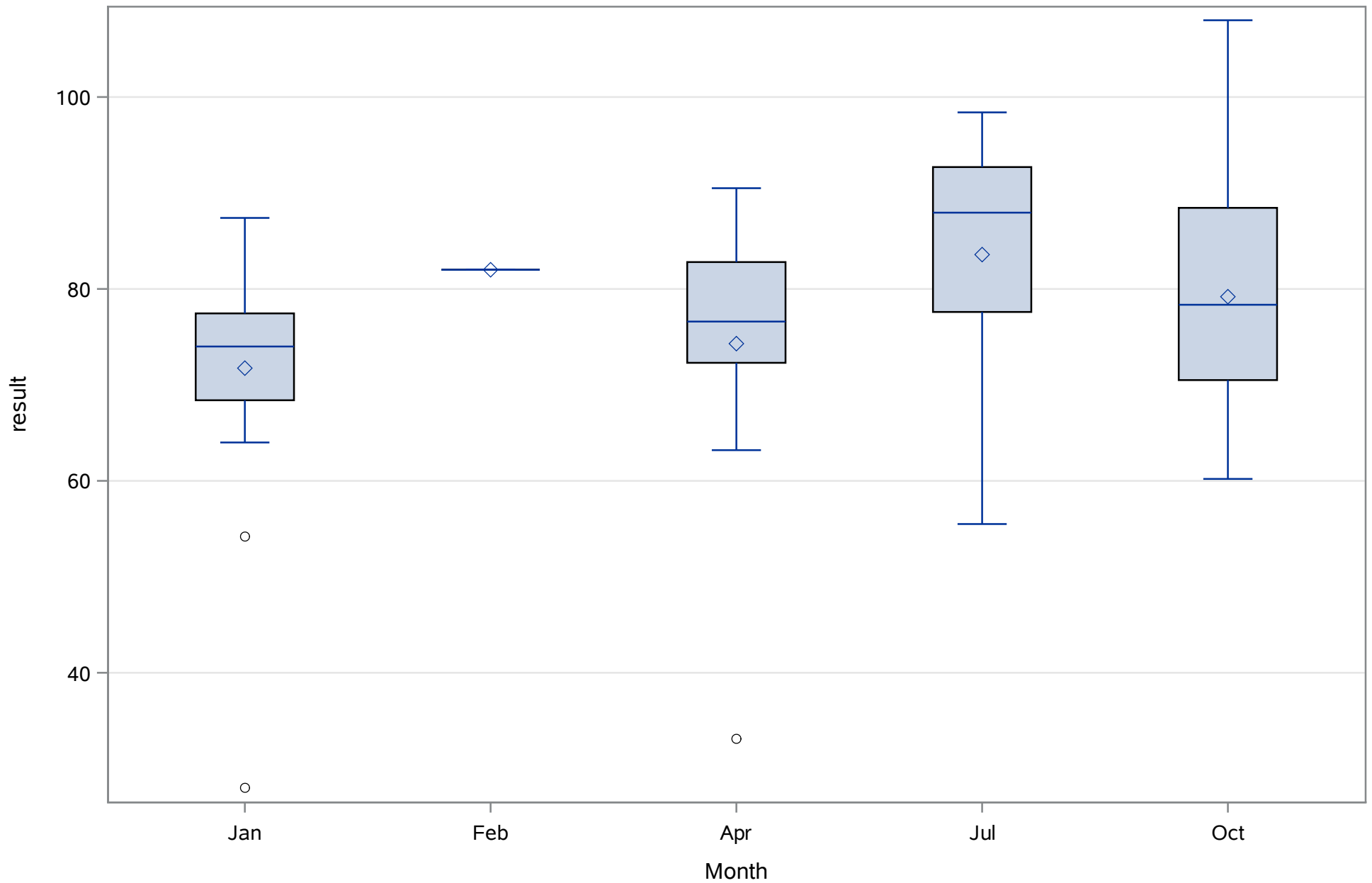
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Orthophosphate (P) (Dissolved) mg/L



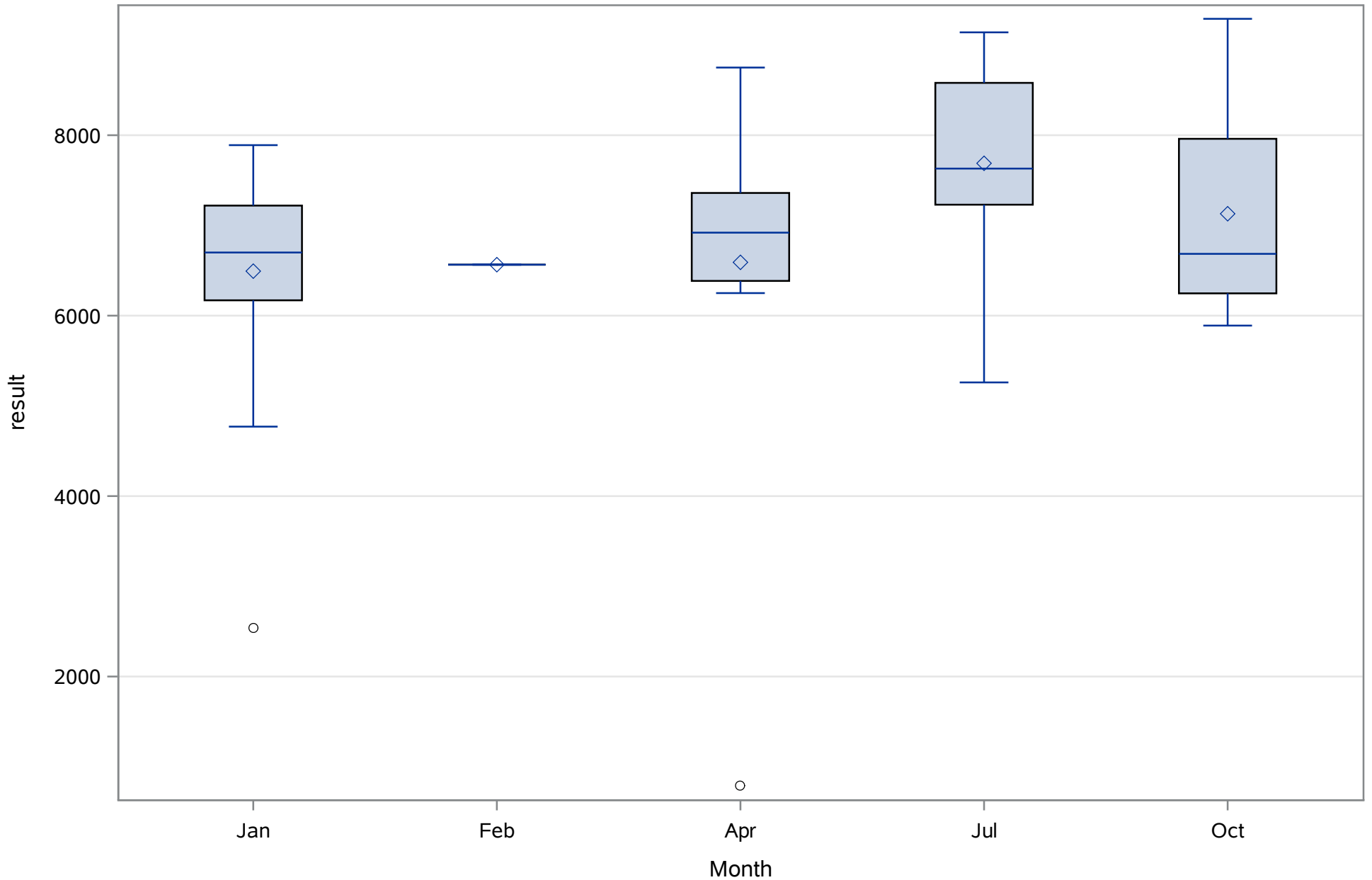
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Phosphorus- Total (Total) mg/L



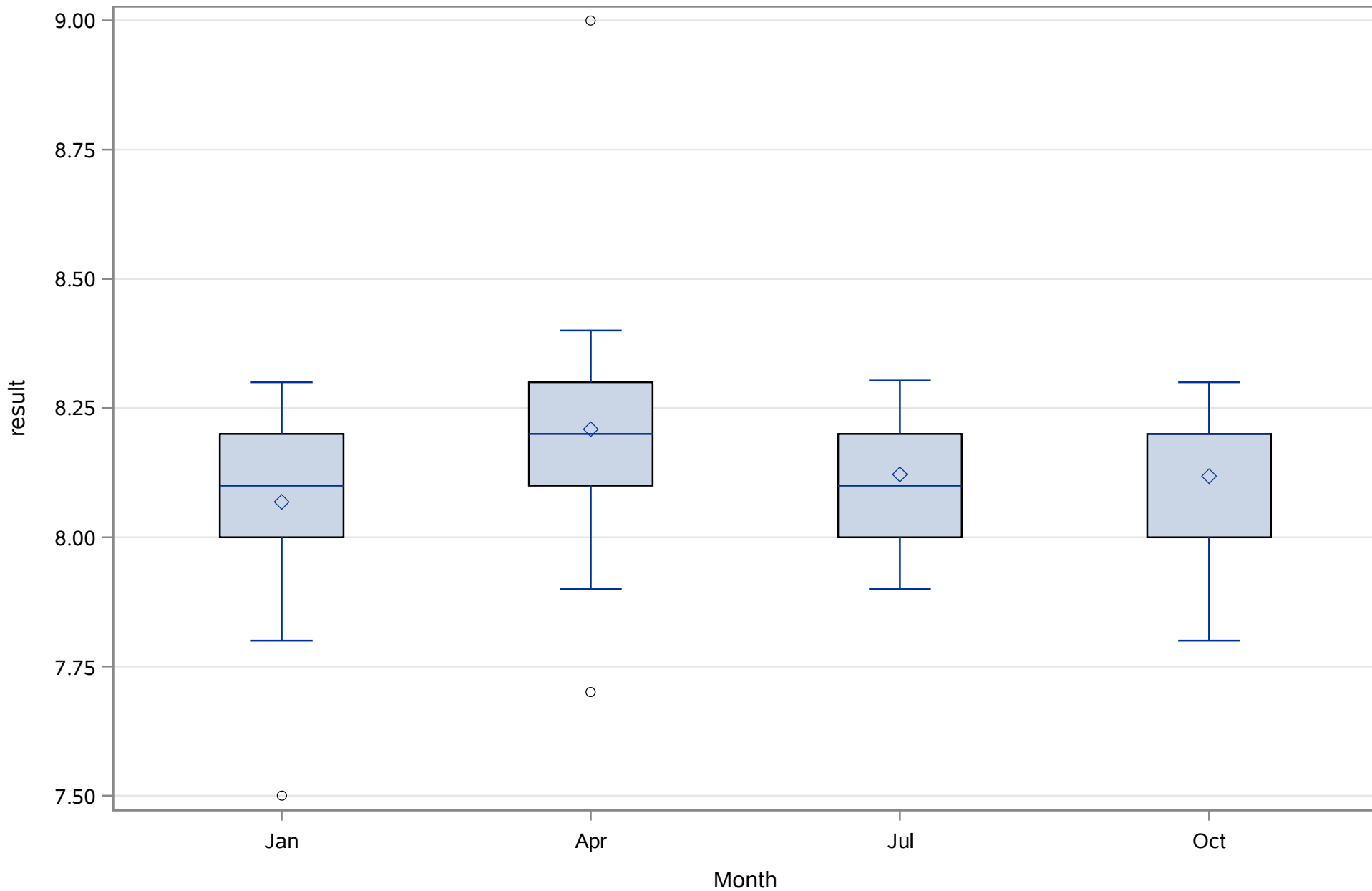
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Potassium (Dissolved) mg/L



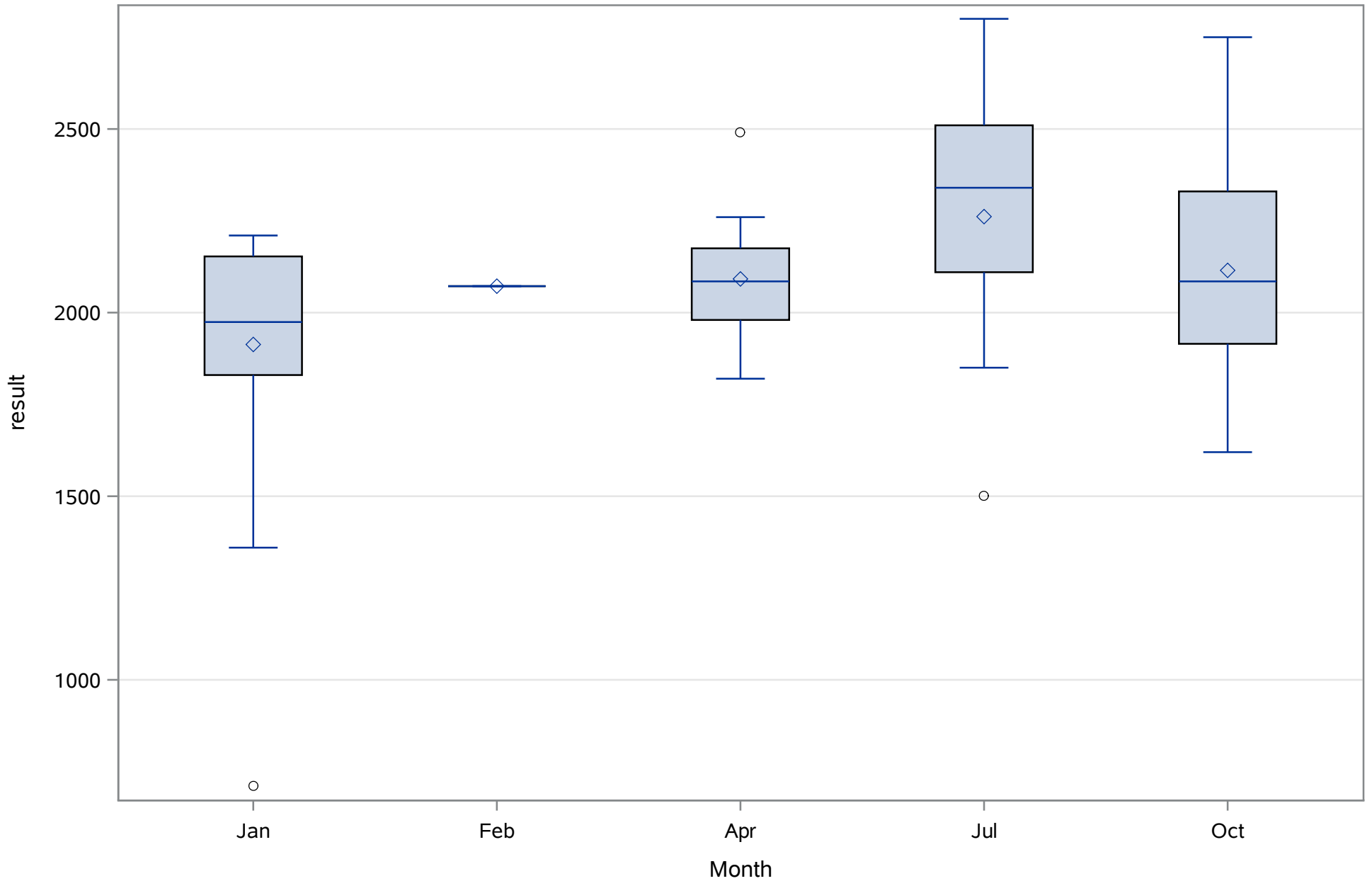
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Residues- Filterable (TDS) (Dissolved) mg/L



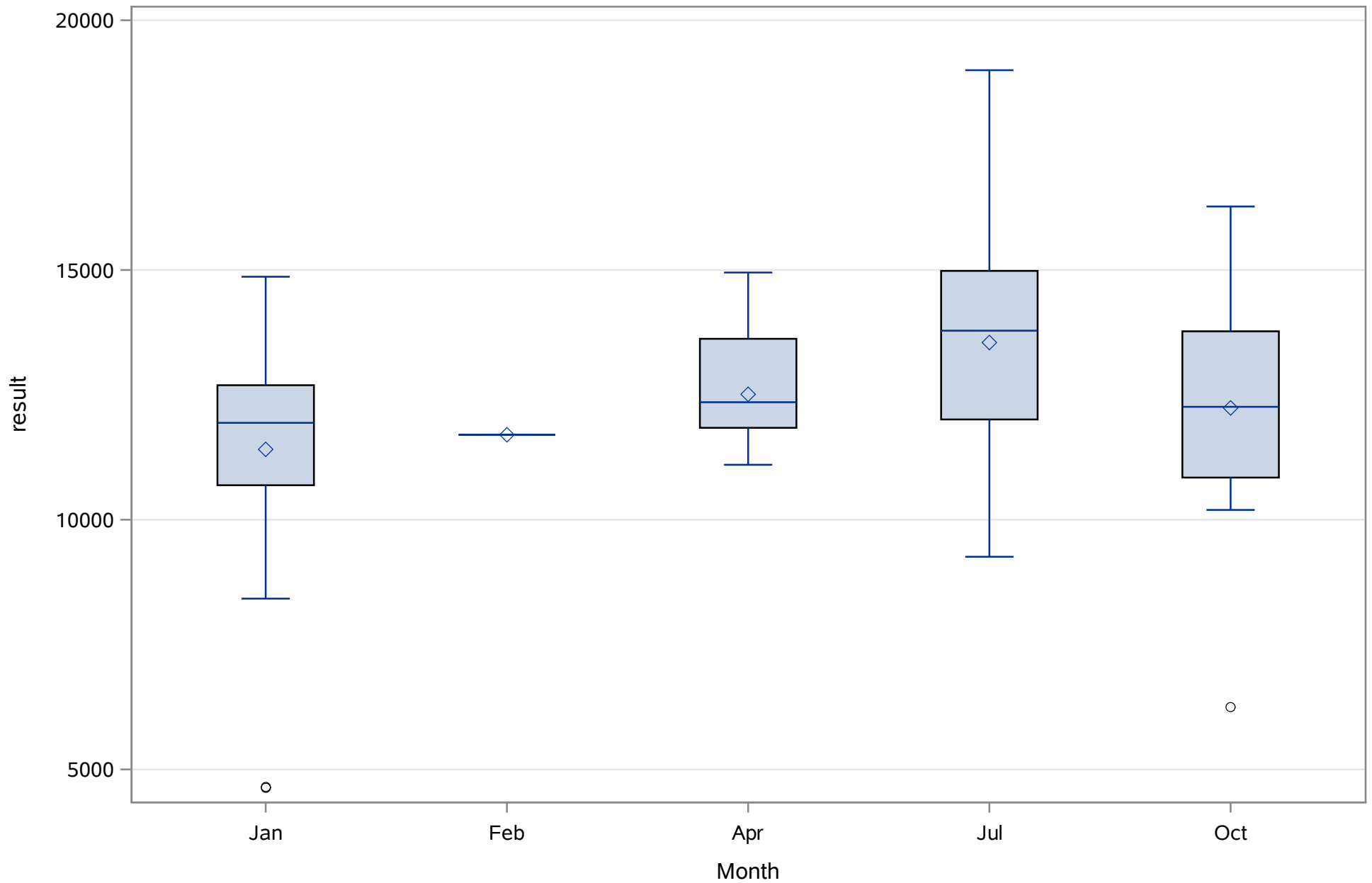
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Silica- Dissolved (Dissolved) mg/L



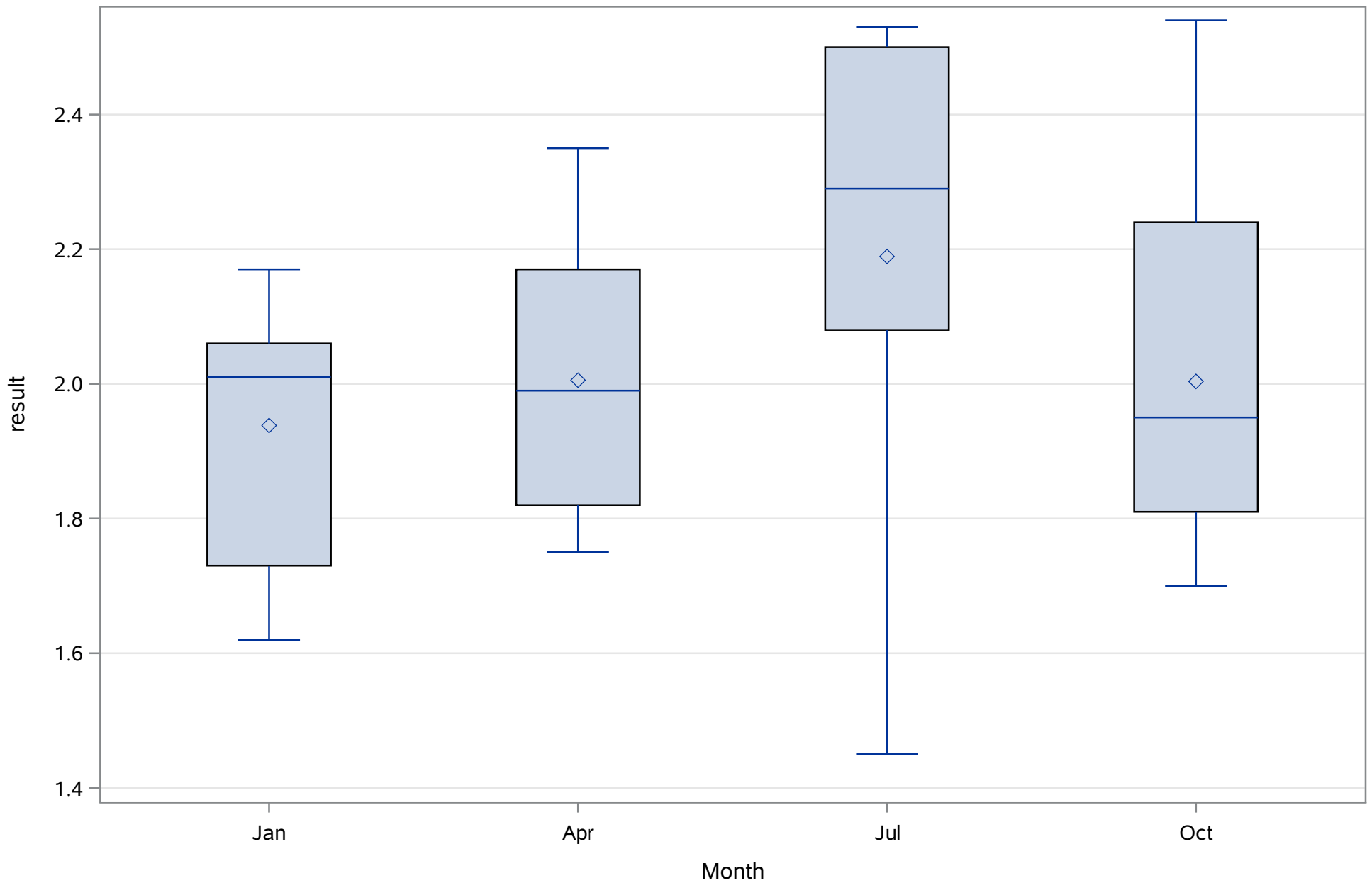
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sodium (Dissolved) mg/L



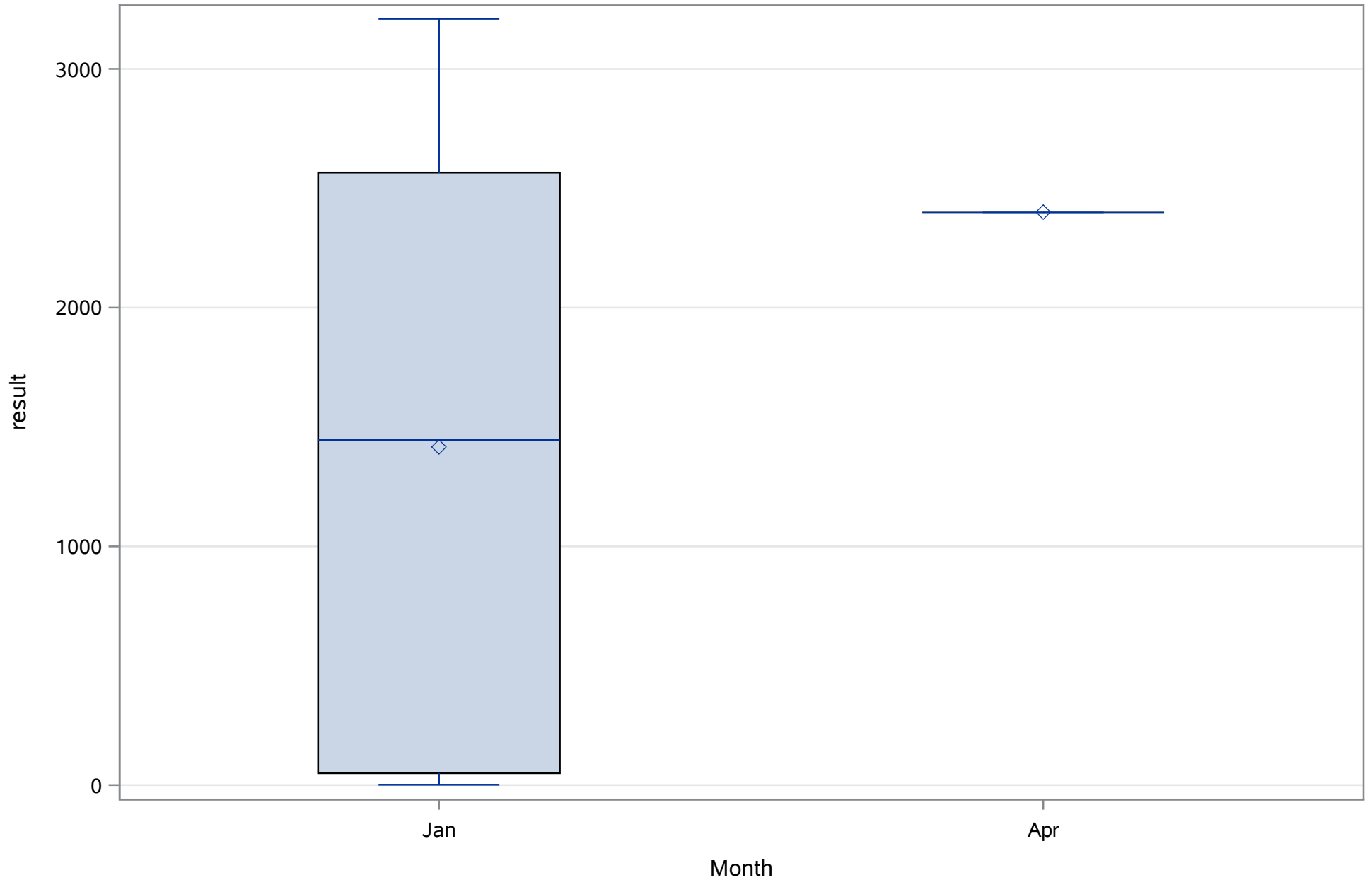
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Specific Conductance (Total) uS/cm



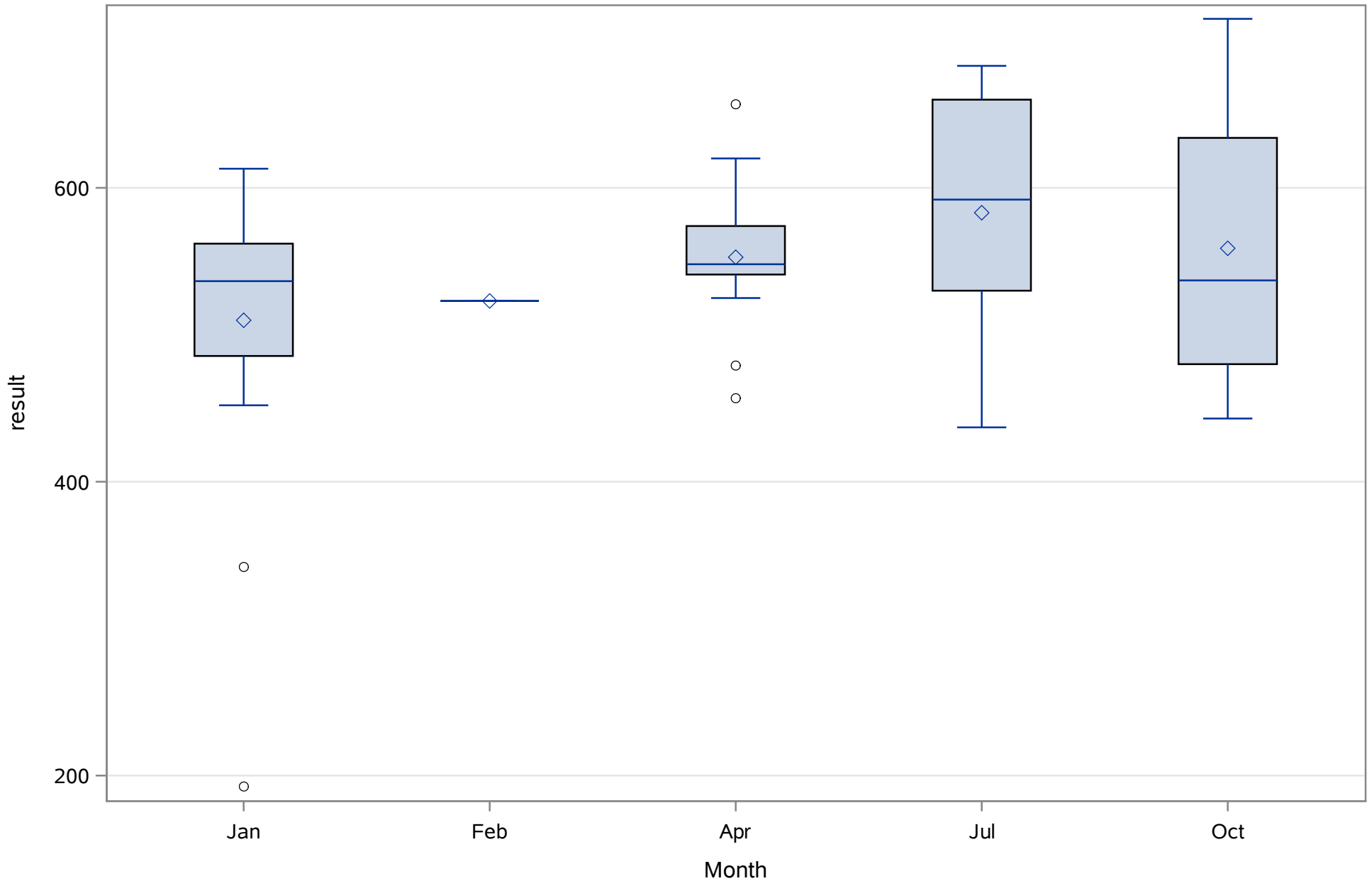
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) mg/L



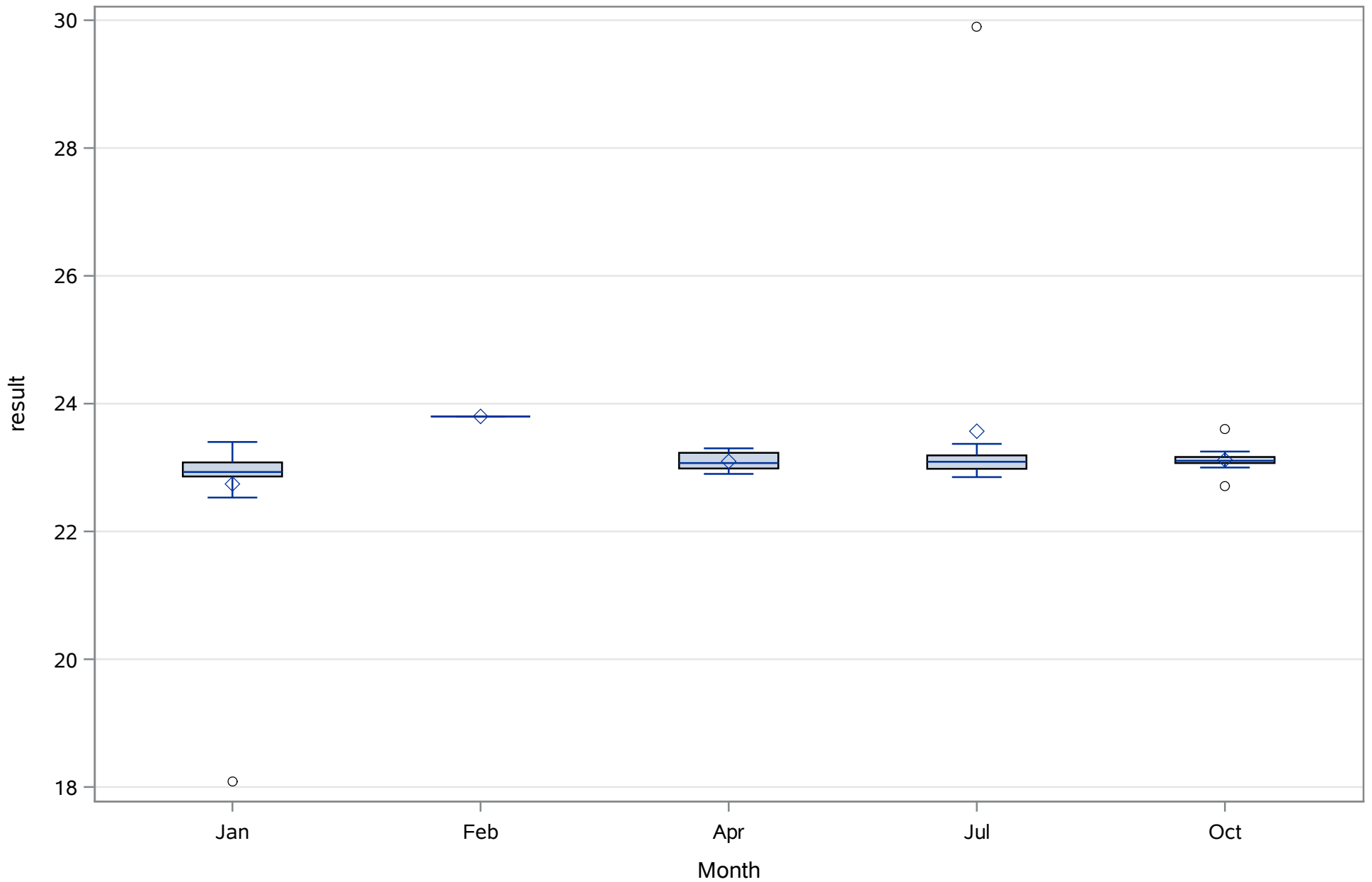
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Strontium (Dissolved) ug/L



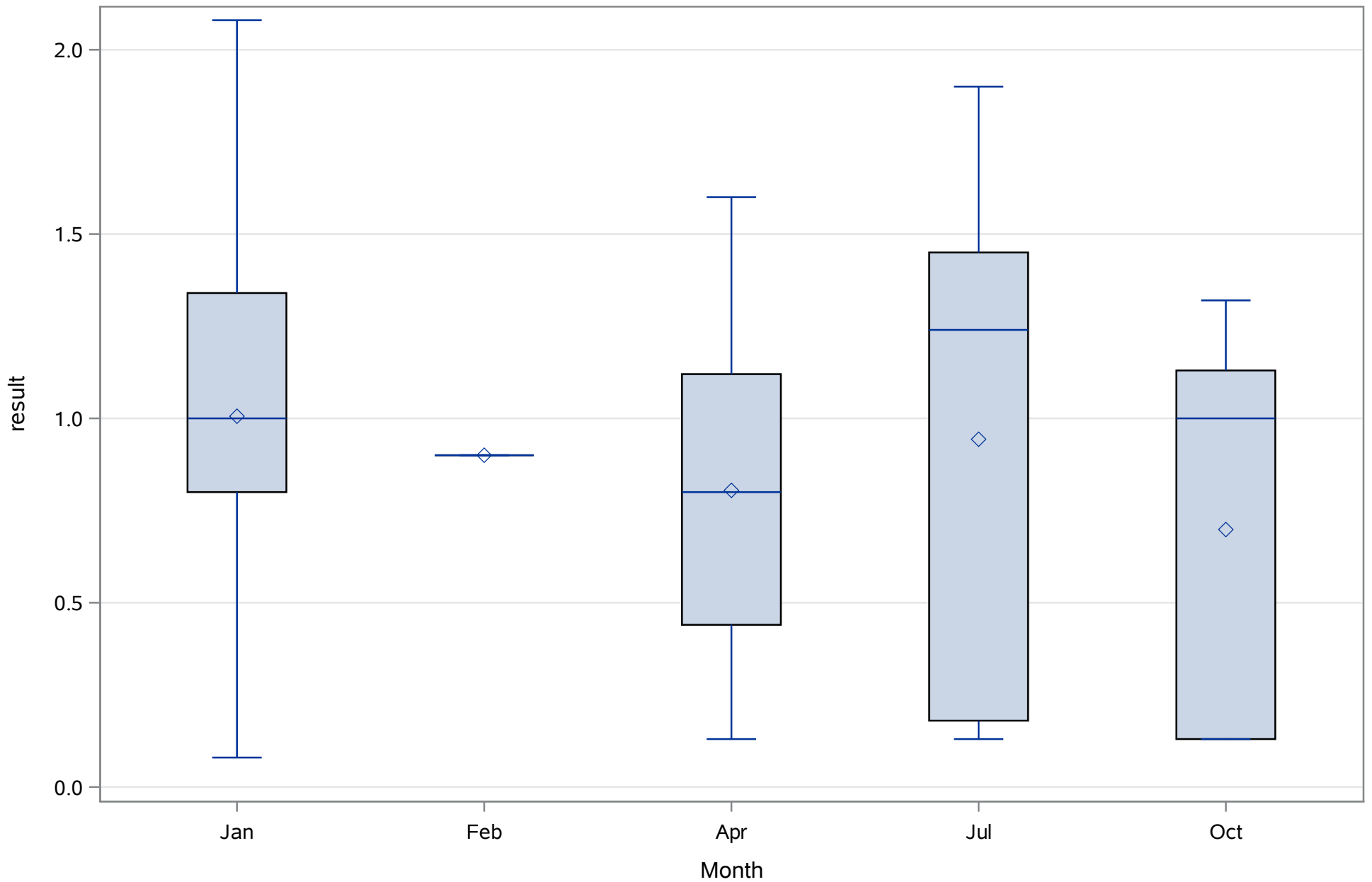
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Sulfate (Dissolved) mg/L



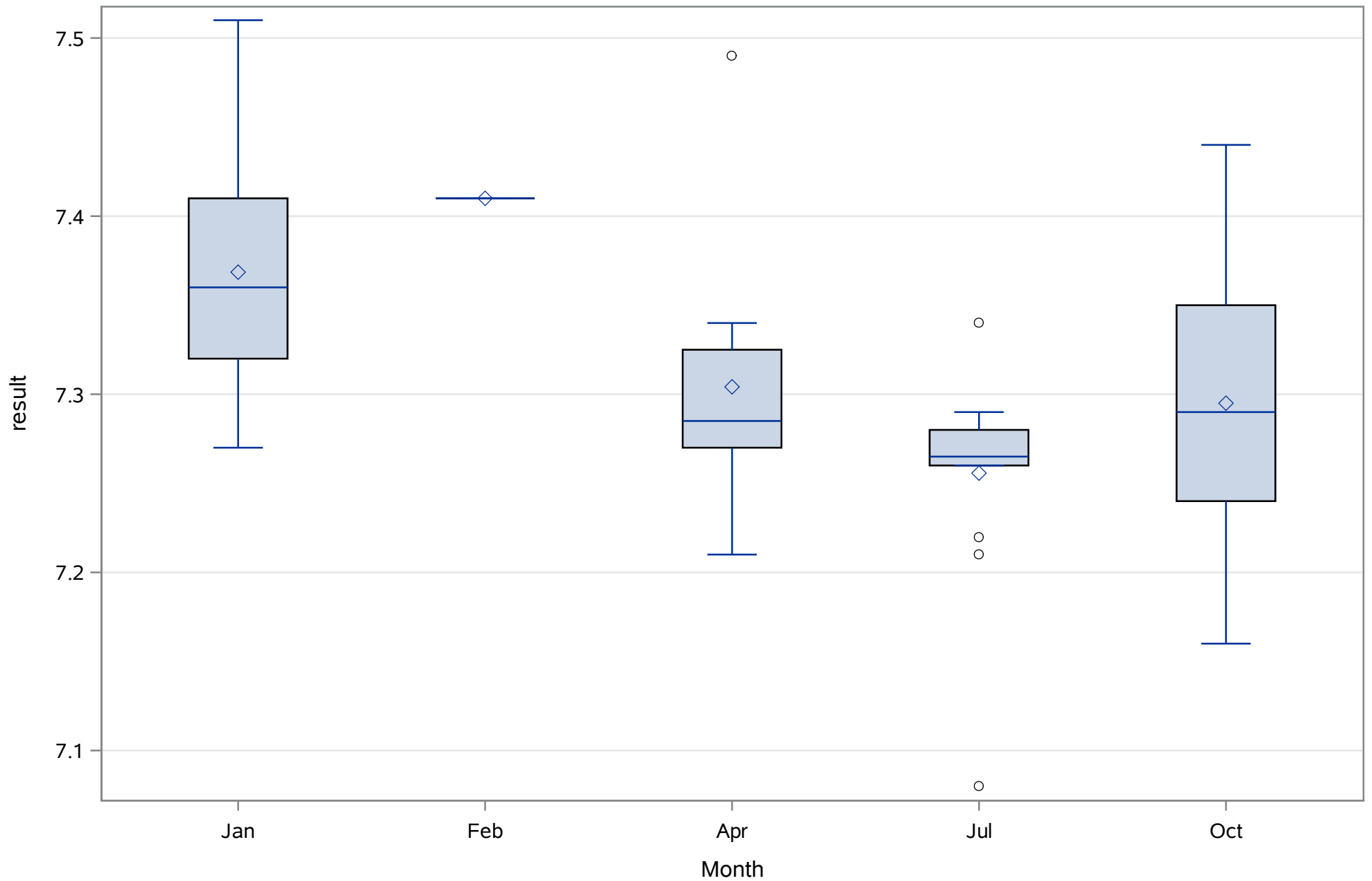
Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Baird Spring
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
1,1,1-Trichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1,2,2-Tetrachloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1,2-Trichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1-Dichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1-Dichloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2,4,5-Tetrachlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2,4-Trichlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2-Dichlorobenzene (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
1,2-Dichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2-Dichloropropane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,3,5-Trinitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,3-Dichlorobenzene (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
1,3-Dinitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,4-Dichlorobenzene (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
1,4-Naphthoquinone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1-Methylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
1-Methylphenanthrene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
1-Naphthylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,3,4,6-Tetrachlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,3,5-Trimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,4,5-Trichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4,6-Trichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dimethylphenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dinitrophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dinitrotoluene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,6-Dichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,6-Dimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,6-Dinitrotoluene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Acetylaminofluorene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Chloroethylvinyl ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Chloronaphthalene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Chlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
2-Methylnaphthalene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
2-Naphthylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Nitroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Nitrophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Picoline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3,3'-Dimethylbenzidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3,3-Dichlorobenzidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3-Methylcholanthrene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3-Nitroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4,4'-DDD (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
4,4'-DDE (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
4,4'-DDT (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
4,6-Dinitro-2-methylphenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Aminobiphenyl (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Bromophenyl phenyl ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Chloro-3-methylphenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Chloroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Chlorophenyl phenyl ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Nitroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Nitrophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Nitroquinoline-1-oxide (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
5-Nitro-o-toluidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
7,12-Dimethylbenz(a)-anthracene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Acenaphthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Acenaphthylene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Acetophenone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Alachlor (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Aldrin (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Alkalinity (Dissolved)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Alkalinity (Total)	mg/L	APR1992	JUL2017	111	6.3%	0.9%	4.5%
Aluminum (Dissolved)	ug/L	OCT2002	JUL2017	25	20.0%	0.0%	4.0%
Aluminum (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Ametryn (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Dissolved)	mg/L	OCT1993	JAN2010	84	13.1%	0.0%	1.2%
Ammonia (N) (Total)	mg/L	APR1992	JUL2017	65	9.2%	0.0%	1.5%
Aniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Anthracene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Antimony (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Arsenic (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Arsenic (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Atrazine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Azinphos methyl (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Azobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Barium (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Barium (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Benzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Benzdine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Benzo(a)anthracene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(a)pyrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(b)fluoranthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(g,h,i)perylene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(k)fluoranthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzyl alcohol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Beryllium (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bicarbonate (Total)	mg/L	JAN1993	OCT2002	18	0.0%	0.0%	0.0%
Biphenyl	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Bis(2-chloroethoxy)methane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bis(2-chloroethyl)ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bis(2-chloroisopropyl)ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bis(2-ethylhexyl)phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Boron (Dissolved)	ug/L	OCT2002	JUL2017	25	0.0%	0.0%	0.0%
Boron (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Bromacil (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bromodichloromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bromoform (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bromomethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Butyl benzyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Butylate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Cadmium (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	JUN1997	APR2005	11	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JAN1993	JUL2017	127	1.6%	1.6%	1.6%
Calcium (Total)	mg/L	JAN1998	AUG2005	24	4.2%	0.0%	4.2%
Carbon tetrachloride (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Carbon- Total Organic (Total)	mg/L	OCT1993	JUL2017	124	6.5%	1.6%	2.4%
Chlordane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloride (Dissolved)	mg/L	APR1992	JUL2017	132	3.0%	1.5%	1.5%
Chloride (Total)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Chlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloroform (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chlorophyll (Total)	ug/L	APR1992	APR1992	1	0.0%	0.0%	100.0%
Chlorophyll a (Total)	ug/L	APR1992	APR1992	1	0.0%	0.0%	100.0%
Chlorophyll b (Total)	ug/L	APR1992	APR1992	1	0.0%	0.0%	100.0%
Chlorophyll c (Total)	ug/L	APR1992	APR1992	1	0.0%	0.0%	100.0%
Chlorpyrifos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chromium (Dissolved)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Chromium (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Chrysene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Cobalt (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Cobalt (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	JAN2002	AUG2005	15	0.0%	0.0%	6.7%
Coliform Total (Total)	cfu/100 mL	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	JUL1992	JUL2017	56	3.6%	0.0%	0.0%
Copper (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Copper (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Cyanide- Total (Total)	mg/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Depth (Total)	Meters	JAN2003	JAN2010	17	0.0%	0.0%	5.9%
Di-n-Butyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Di-n-Octyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Diazinon (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dibenzo(a,h)anthracene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Dibenzofuran (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dibenzothiophene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dibromochloromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dieldrin (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Diethyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dimethyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dimethylaminoazobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dinoseb (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Diphenylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dissolved Oxygen (Total)	mg/L	APR2000	JUL2017	68	2.9%	0.0%	2.9%
Eh, Field (hydrogen electrode)	mV	APR2000	APR2002	6	0.0%	0.0%	0.0%
Endosulfan I (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endosulfan II (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endosulfan sulfate (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endrin (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endrin aldehyde (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Enterococci (Total)	cfu/100 mL	JAN2002	AUG2005	15	0.0%	0.0%	6.7%
Escherichia Coli	cfu/100 mL	JAN2002	JAN2002	1	0.0%	0.0%	100.0%
Ethion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Ethoprop (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Ethyl methanesulfonate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Ethylbenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Fenamiphos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Fluoranthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Fluorene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Fluoride (Dissolved)	mg/L	OCT1993	JUL2017	102	8.8%	2.0%	2.0%
Fluoride (Total)	mg/L	JUL1994	AUG2005	46	6.5%	0.0%	0.0%
Fluoride (Total)	ug/L	JUL2003	JUL2003	1	0.0%	0.0%	0.0%
Fonophos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hardness (Total)	mg/L	OCT1992	OCT2000	22	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Heptachlor (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Heptachlor epoxide (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Hexachlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexachlorobutadiene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexachlorocyclopentadiene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexachloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexachloropropene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexazinone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Indeno(1,2,3-cd)pyrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	JAN1993	JUL2017	122	2.5%	0.8%	0.8%
Iron (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Isophorone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Isosafrole (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Lead (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Lead (Total)	ug/L	JUN1997	APR2005	11	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	OCT1993	JUL2017	105	1.9%	1.9%	1.0%
Magnesium (Total)	mg/L	JAN1993	AUG2005	41	0.0%	0.0%	0.0%
Malathion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Manganese (Dissolved)	ug/L	OCT2002	JUL2017	25	0.0%	0.0%	0.0%
Manganese (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Mercury (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Metalaxyl (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methapyrilene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methoxychlor (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methyl chlorpyrifos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methyl methanesulfonate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methyl parathion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methylene chloride (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Metolachlor (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Metribuzin (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Mevinphos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodi-n-propylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodibutylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
N-Nitrosodiethylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodimethylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodiphenylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosomethylethylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosomorpholine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosopiperidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosopyrrolidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Naled (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Naphthalene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Nickel (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Nickel (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Nitrate (N) (Dissolved)	mg/L	OCT1993	JAN2005	42	9.5%	0.0%	4.8%
Nitrate (N) (Total)	mg/L	JUL1995	APR1999	21	4.8%	0.0%	4.8%
Nitrate-Nitrite (N) (Dissolved)	mg/L	OCT1993	JAN2010	77	5.2%	0.0%	2.6%
Nitrate-Nitrite (N) (Total)	mg/L	APR1992	JUL2017	57	7.0%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	JUL1994	JAN2010	44	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	DEC1996	JUL2017	50	4.0%	0.0%	0.0%
Nitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Nitrogen- Organic (Dissolved)	mg/L	OCT1993	JUL1998	17	0.0%	0.0%	5.9%
Nitrogen- Total (Dissolved)	mg/L	JUL2002	OCT2009	20	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	SEP1997	JUL2017	62	6.5%	0.0%	1.6%
Nitrogen- Total Kjeldahl (Dissolved)	mg/L	JAN2002	AUG2005	15	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	APR1992	JAN2010	41	7.3%	0.0%	2.4%
Nitrogen15/Nitrogen14 Isotope Ratio	per mil	APR1995	JUL2007	5	0.0%	0.0%	0.0%
Norflurazon (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1993	JUL2017	124	5.6%	0.8%	1.6%
Orthophosphate (P) (Total)	mg/L	APR1992	SEP1997	14	0.0%	0.0%	0.0%
PCB-1016 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1221 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1232 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1242 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1248 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1254 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
PCB-1260 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Parathion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Pentachlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Pentachloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Pentachloronitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Pentachlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phenacetin (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phenanthrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Phenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phorate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phosphorus (Dissolved)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	7.1%
Phosphorus- Total (Total)	mg/L	APR1992	JUL2017	137	10.2%	0.7%	2.2%
Potassium (Dissolved)	mg/L	OCT1993	JUL2017	105	2.9%	1.9%	1.9%
Potassium (Total)	mg/L	JAN1993	AUG2005	46	4.3%	0.0%	4.3%
Prometryn (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Purge Volume (Total)	Gallons	OCT1999	JUL2007	24	12.5%	0.0%	4.2%
Pyrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Pyridine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1993	JUL2017	121	3.3%	1.7%	1.7%
Residues- Nonfilterable (TSS) (Total)	mg/L	APR1992	AUG2005	31	6.5%	0.0%	6.5%
Safrole (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Selenium (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Selenium (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Silica- Dissolved (Dissolved)	mg/L	APR2001	JUL2017	63	0.0%	0.0%	0.0%
Silver (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Simazine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Sodium (Dissolved)	mg/L	OCT1993	JUL2017	106	2.8%	1.9%	1.9%
Sodium (Total)	mg/L	JAN1993	AUG2005	43	2.3%	0.0%	2.3%
Specific Conductance (Total)	uS/cm	OCT1993	JUL2017	189	3.2%	1.1%	2.1%
Stage (Total)	Ft.	JUL2004	APR2005	4	0.0%	0.0%	0.0%
Strontium (Dissolved)	mg/L	JUL2005	JUL2017	46	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	APR1996	JUL2005	43	23.3%	0.0%	2.3%
Strontium (Total)	ug/L	APR1996	APR2005	21	9.5%	0.0%	4.8%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Sulfate (Dissolved)	mg/L	OCT1993	JUL2017	123	2.4%	1.6%	1.6%
Sulfate (Total)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	OCT1993	JUL2017	95	5.3%	0.0%	2.1%
Tetrachloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Thallium (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Tin (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Tin (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Toluene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Total Recoverable Pet. Hydrocarbons	mg/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Toxaphene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Transparency (Total)	Meters	JUL2004	AUG2005	5	0.0%	0.0%	0.0%
Trichloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Trichlorofluoromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Turbidity (Total)	FTU	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	APR1992	JUL2017	122	11.5%	0.8%	0.8%
Uranium (234/238) Isotope Ratio	Ratio	APR1995	APR1995	1	0.0%	0.0%	100.0%
Uranium (Total)	ug/L	APR1995	APR1995	1	0.0%	0.0%	100.0%
Vinyl chloride (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Xylene, m,p- (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Xylene, o- (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Zinc (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	JUN1997	APR2005	11	0.0%	0.0%	0.0%
a-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
b-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
cis-1,3-Dichloropropene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
d-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
g-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
m,p-Cresols (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
o-Cresol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
o-Toluidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
pH (Total)	SU	OCT1993	JUL2017	95	4.2%	0.0%	0.0%
trans-1,2-Dichloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
trans-1,3-Dichloropropene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	111	Sum Weights	111
Mean	144.965676	Sum Observations	16091.19
Std Deviation	32.5898235	Variance	1062.0966
Skewness	-3.9239469	Kurtosis	15.2563541
Uncorrected SS	2449500.86	Corrected SS	116830.626
Coeff Variation	22.4810621	Std Error Mean	3.09328916

Basic Statistical Measures			
Location		Variability	
Mean	144.9657	Std Deviation	32.58982
Median	151.0000	Variance	1062
Mode	142.0000	Range	190.00000
		Interquartile Range	15.00000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	46.86457	Pr > t 	<.0001
Sign	M	55.5	Pr >= M 	<.0001
Signed Rank	S	3108	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	191.0
99%	166.9
95%	164.6
90%	161.6
75% Q3	158.0
50% Median	151.0
25% Q1	143.0
10%	139.0
5%	132.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

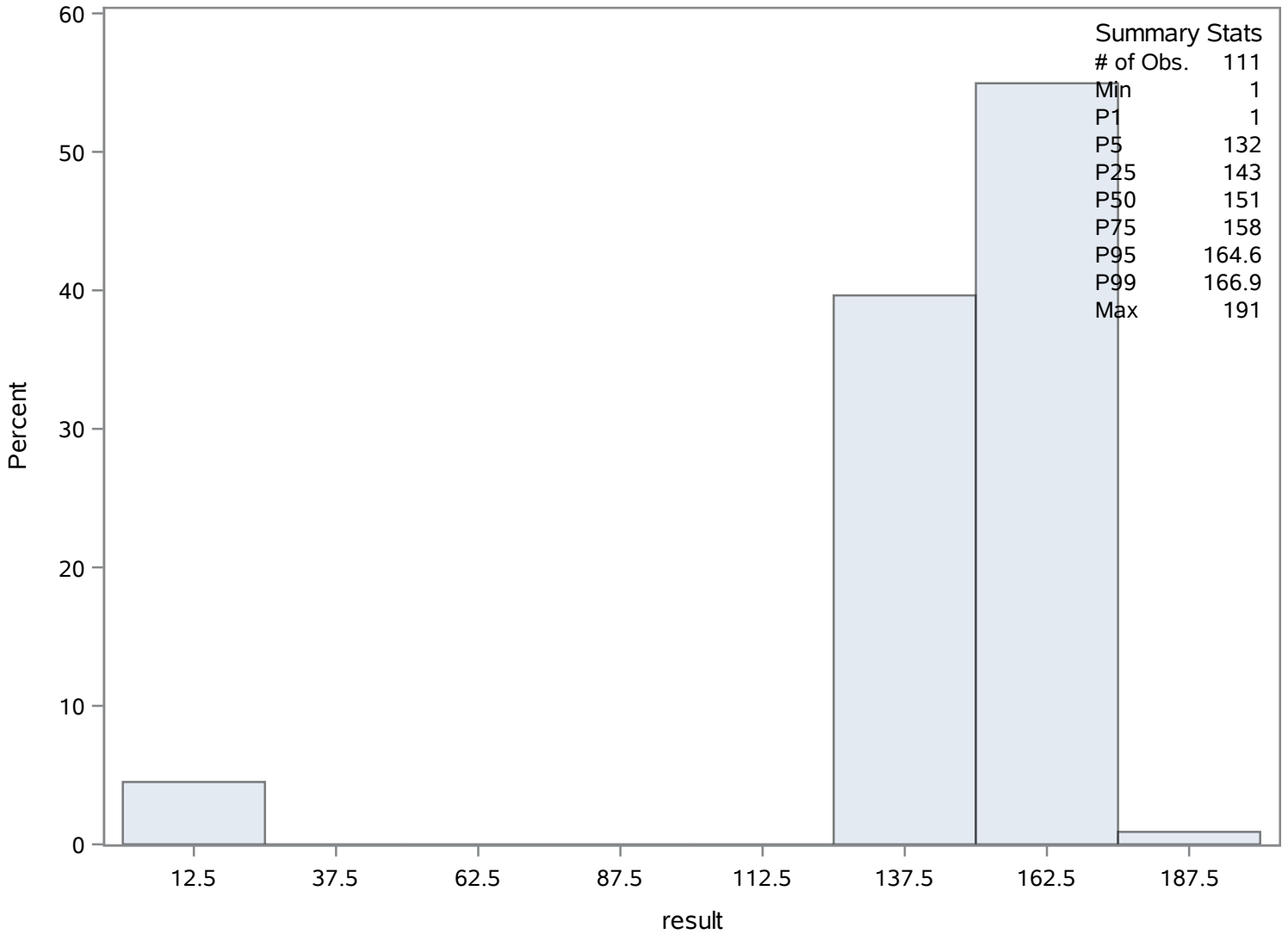
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	44	165.0	45
1	41	165.0	95
1	39	165.6	111
1	35	166.9	110
1	34	191.0	25

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Aluminum (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	7.916	Sum Observations	197.9
Std Deviation	4.63093583	Variance	21.4455667
Skewness	2.52165721	Kurtosis	6.03267517
Uncorrected SS	2081.27	Corrected SS	514.6936
Coeff Variation	58.5009579	Std Error Mean	0.92618717

Basic Statistical Measures			
Location		Variability	
Mean	7.916000	Std Deviation	4.63094
Median	6.300000	Variance	21.44557
Mode	6.300000	Range	19.00000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.546869	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.0
99%	24.0
95%	18.1
90%	14.9
75% Q3	6.3
50% Median	6.3
25% Q1	6.3
10%	5.0
5%	5.0
1%	5.0
0% Min	5.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Aluminum (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

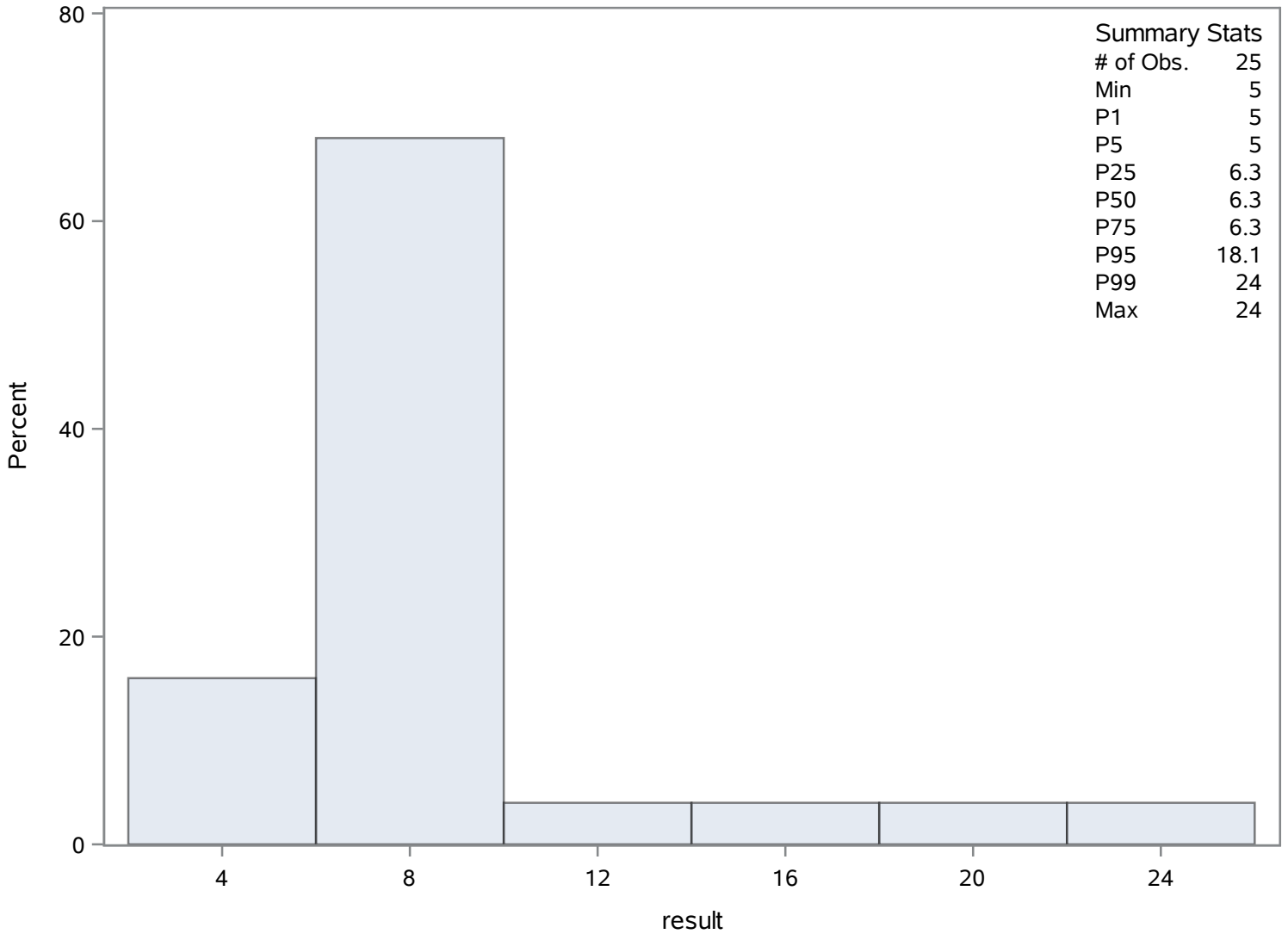
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.0	117	7.0	114
5.0	116	13.1	130
5.0	115	14.9	136
5.0	113	18.1	131
6.3	135	24.0	112

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Aluminum (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	84	Sum Weights	84
Mean	0.02889048	Sum Observations	2.4268
Std Deviation	0.12696206	Variance	0.01611936
Skewness	8.75526029	Kurtosis	78.5251396
Uncorrected SS	1.40801864	Corrected SS	1.33790723
Coeff Variation	439.459902	Std Error Mean	0.0138527

Basic Statistical Measures			
Location		Variability	
Mean	0.028890	Std Deviation	0.12696
Median	0.010000	Variance	0.01612
Mode	0.010000	Range	1.15800
		Interquartile Range	0.00400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	2.085549	Pr > t 	0.0401
Sign	M	42	Pr >= M 	<.0001
Signed Rank	S	1785	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.160
99%	1.160
95%	0.039
90%	0.034
75% Q3	0.012
50% Median	0.010
25% Q1	0.008
10%	0.005
5%	0.005
1%	0.002
0% Min	0.002

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	139	0.039	153
0.003	141	0.039	154
0.005	214	0.050	207
0.005	211	0.202	175
0.005	210	1.160	170

Chassahowitzka River - Fixed Station

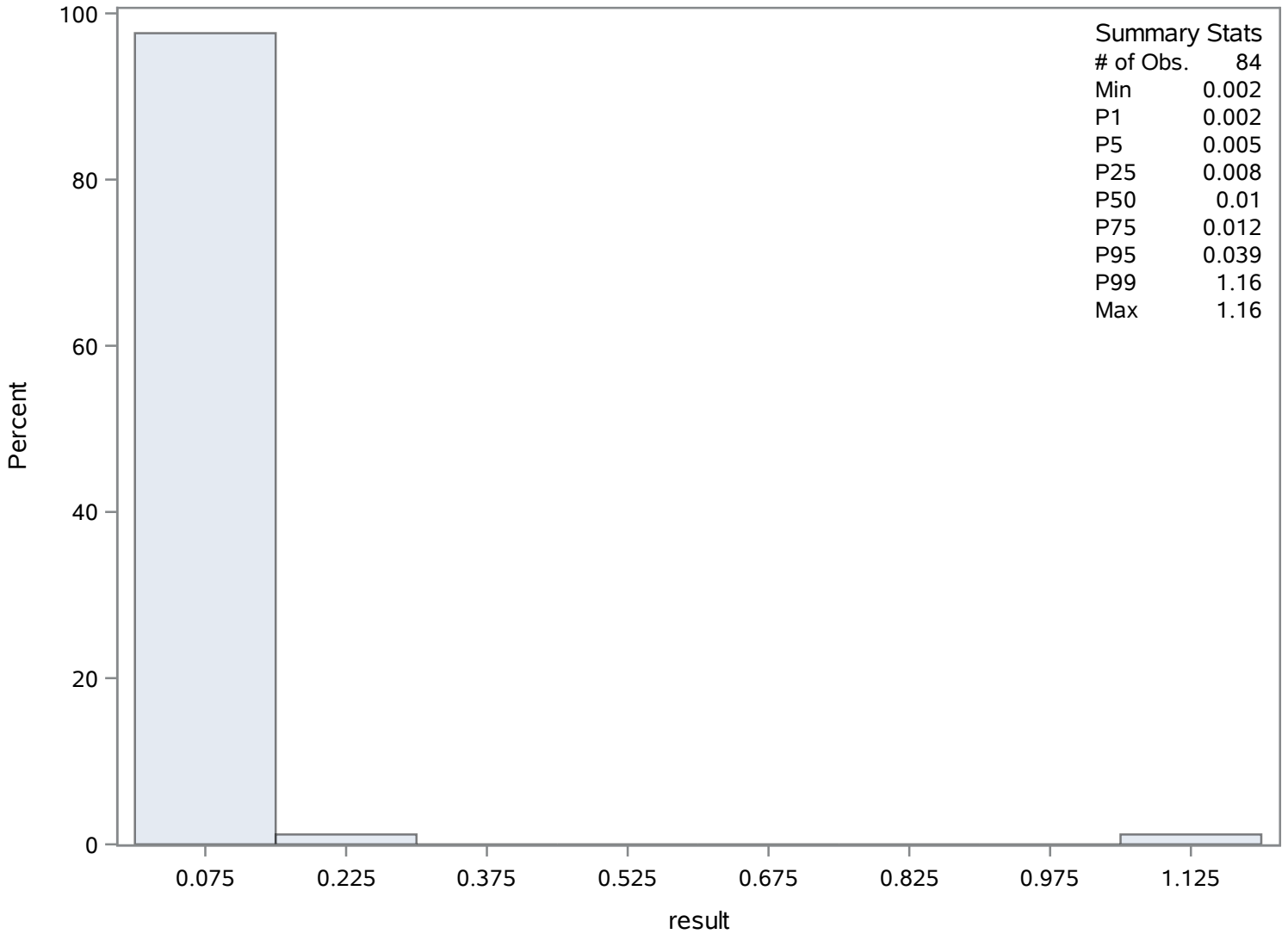
Source: Springs Data

Chassahowitzka Main Spring

Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	65	Sum Weights	65
Mean	0.02978462	Sum Observations	1.936
Std Deviation	0.14262552	Variance	0.02034204
Skewness	8.01944535	Kurtosis	64.5252589
Uncorrected SS	1.3595535	Corrected SS	1.30189048
Coeff Variation	478.856341	Std Error Mean	0.01769052

Basic Statistical Measures			
Location		Variability	
Mean	0.029785	Std Deviation	0.14263
Median	0.010000	Variance	0.02034
Mode	0.010000	Range	1.15900
		Interquartile Range	0.00100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	1.683649	Pr > t 	0.0971
Sign	M	32.5	Pr >= M 	<.0001
Signed Rank	S	1072.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.160
99%	1.160
95%	0.038
90%	0.018
75% Q3	0.011
50% Median	0.010
25% Q1	0.010
10%	0.008
5%	0.007
1%	0.001
0% Min	0.001

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

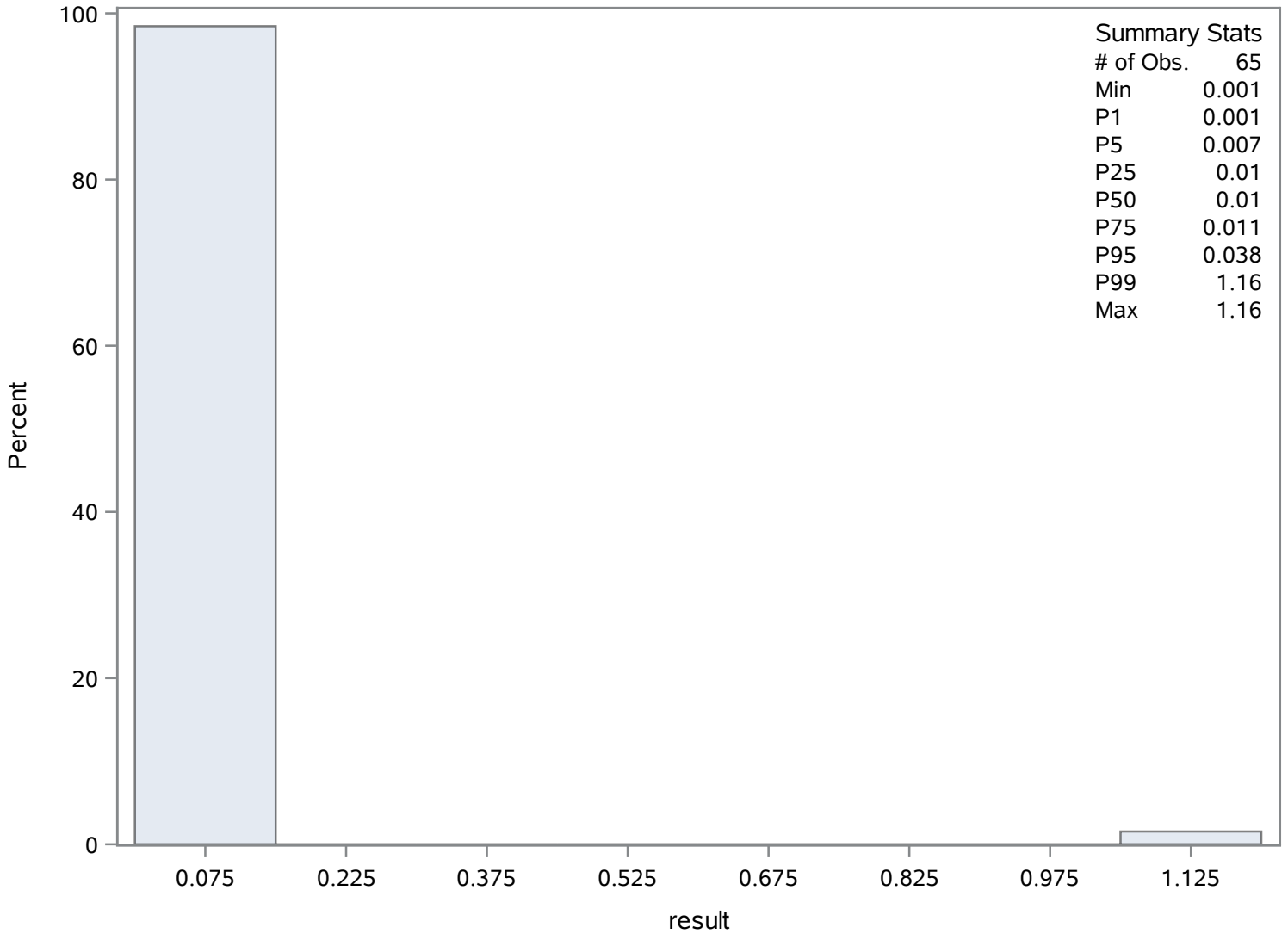
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	225	0.026	239
0.001	222	0.038	233
0.001	221	0.047	226
0.007	256	0.053	236
0.007	255	1.160	234

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Boron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	167.328	Sum Observations	4183.2
Std Deviation	91.7563464	Variance	8419.2271
Skewness	0.97694897	Kurtosis	1.08897113
Uncorrected SS	902027.94	Corrected SS	202061.45
Coeff Variation	54.8362177	Std Error Mean	18.3512693

Basic Statistical Measures			
Location		Variability	
Mean	167.3280	Std Deviation	91.75635
Median	168.0000	Variance	8419
Mode	185.0000	Range	364.00000
		Interquartile Range	95.70000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.118061	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	408.0
99%	408.0
95%	347.0
90%	331.0
75% Q3	194.0
50% Median	168.0
25% Q1	98.3
10%	53.0
5%	47.0
1%	44.0
0% Min	44.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Boron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

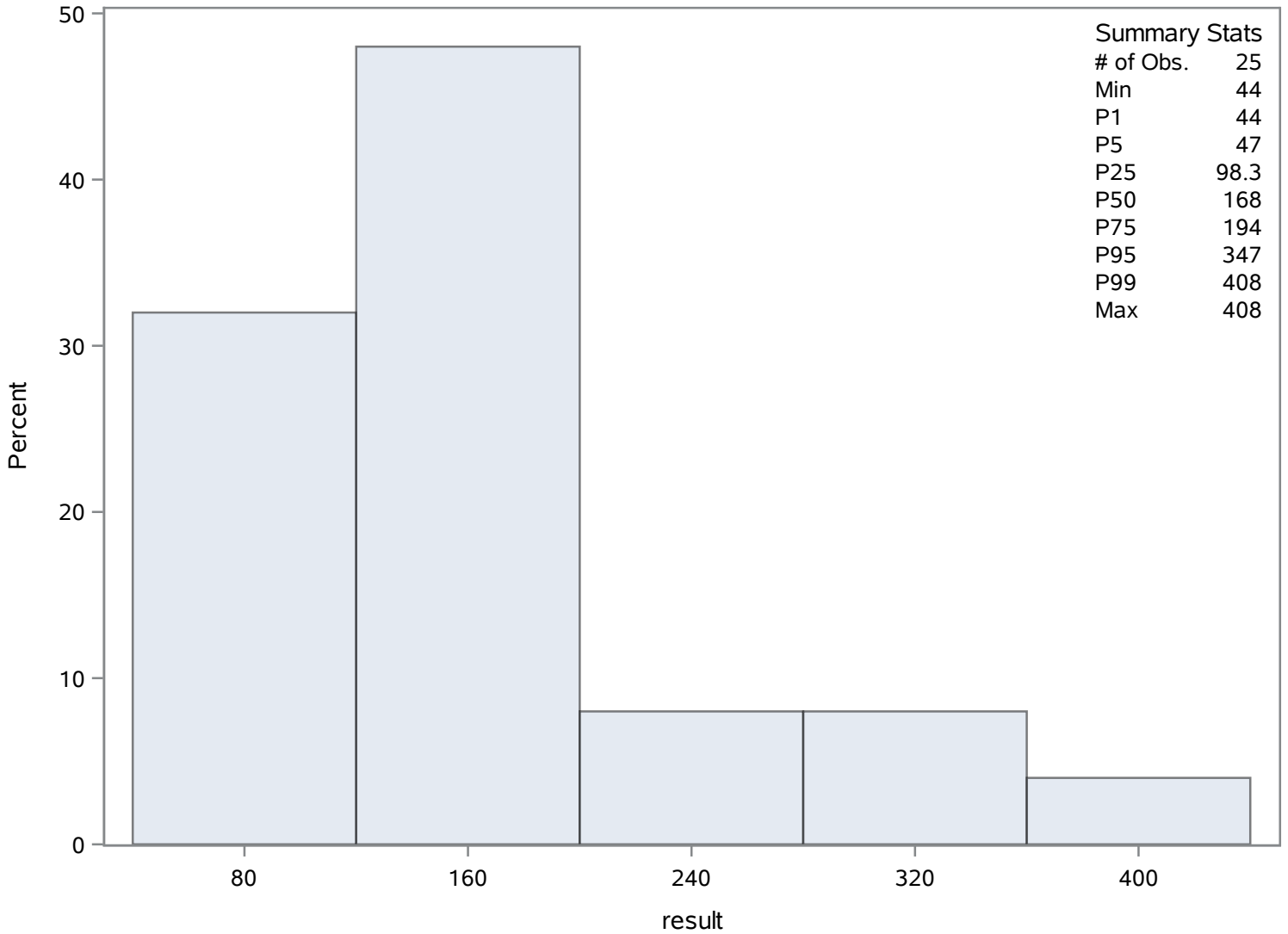
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
44.0	290	208	306
47.0	291	226	294
53.0	288	331	302
71.0	287	347	309
82.8	303	408	310

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Boron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	127	Sum Weights	127
Mean	67.428189	Sum Observations	8563.38
Std Deviation	15.5519078	Variance	241.861836
Skewness	1.24404867	Kurtosis	2.9386315
Uncorrected SS	607887.796	Corrected SS	30474.5913
Coeff Variation	23.0644008	Std Error Mean	1.38000866

Basic Statistical Measures			
Location		Variability	
Mean	67.42819	Std Deviation	15.55191
Median	66.10000	Variance	241.86184
Mode	53.00000	Range	105.00000
		Interquartile Range	20.00000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	48.8607	Pr > t 	<.0001
Sign	M	63.5	Pr >= M 	<.0001
Signed Rank	S	4064	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	136.0
99%	120.0
95%	94.1
90%	89.3
75% Q3	74.0
50% Median	66.1
25% Q1	54.0
10%	51.9
5%	50.1

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	45.9
0% Min	31.0

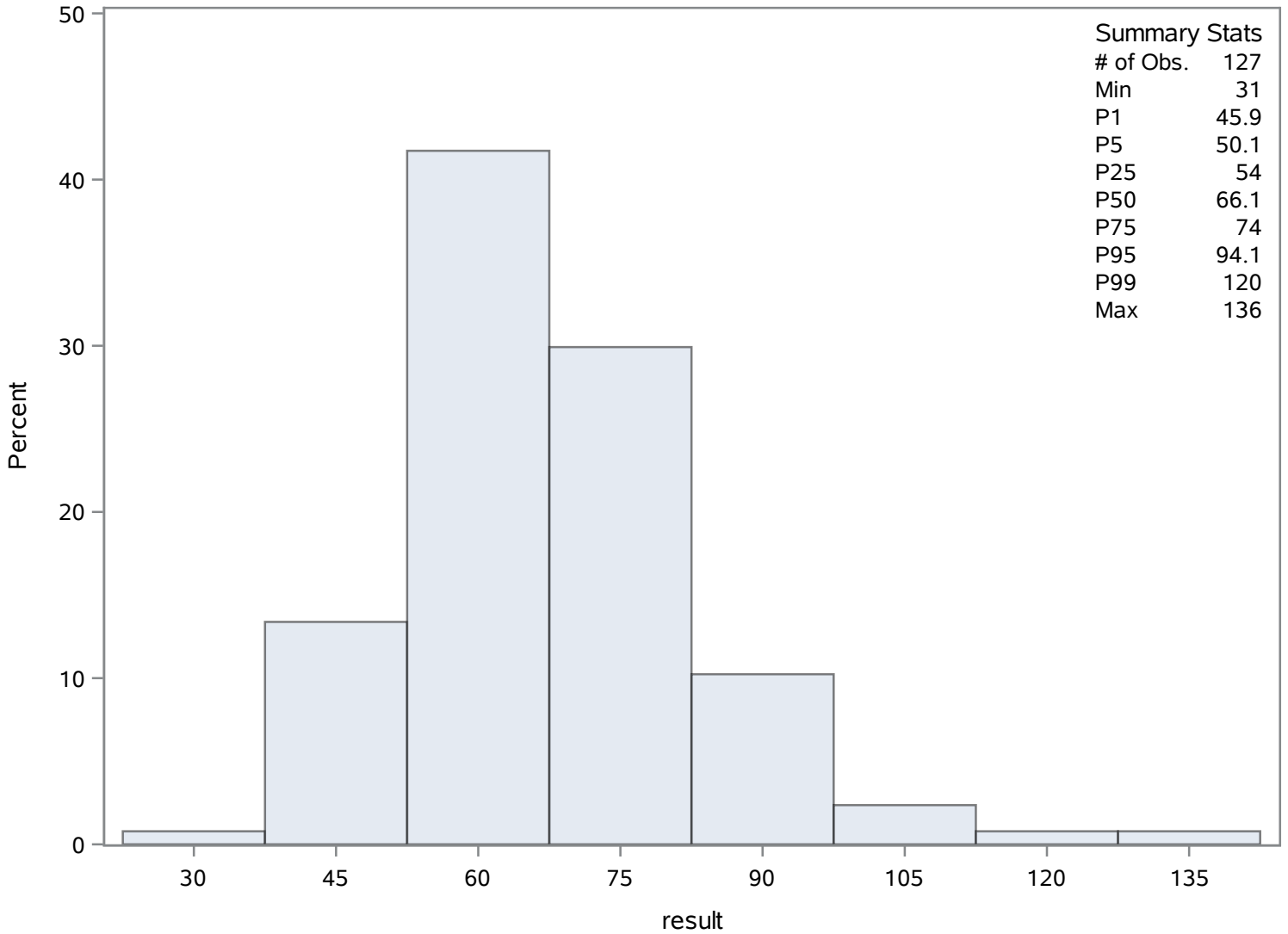
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
31.0	312	98.5	357
45.9	389	101.0	358
47.7	390	106.0	416
47.8	382	120.0	404
49.1	351	136.0	397

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Calcium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	60.8416667	Sum Observations	1460.2
Std Deviation	12.0554125	Variance	145.332971
Skewness	1.49952324	Kurtosis	2.69855608
Uncorrected SS	92183.66	Corrected SS	3342.65833
Coeff Variation	19.8144022	Std Error Mean	2.46080078

Basic Statistical Measures			
Location		Variability	
Mean	60.84167	Std Deviation	12.05541
Median	55.45000	Variance	145.33297
Mode	49.90000	Range	49.40000
		Interquartile Range	14.25000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.72434	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	98.50
99%	98.50
95%	76.80
90%	76.60
75% Q3	65.95
50% Median	55.45
25% Q1	51.70
10%	49.90
5%	49.20

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Calcium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	49.10
0% Min	49.10

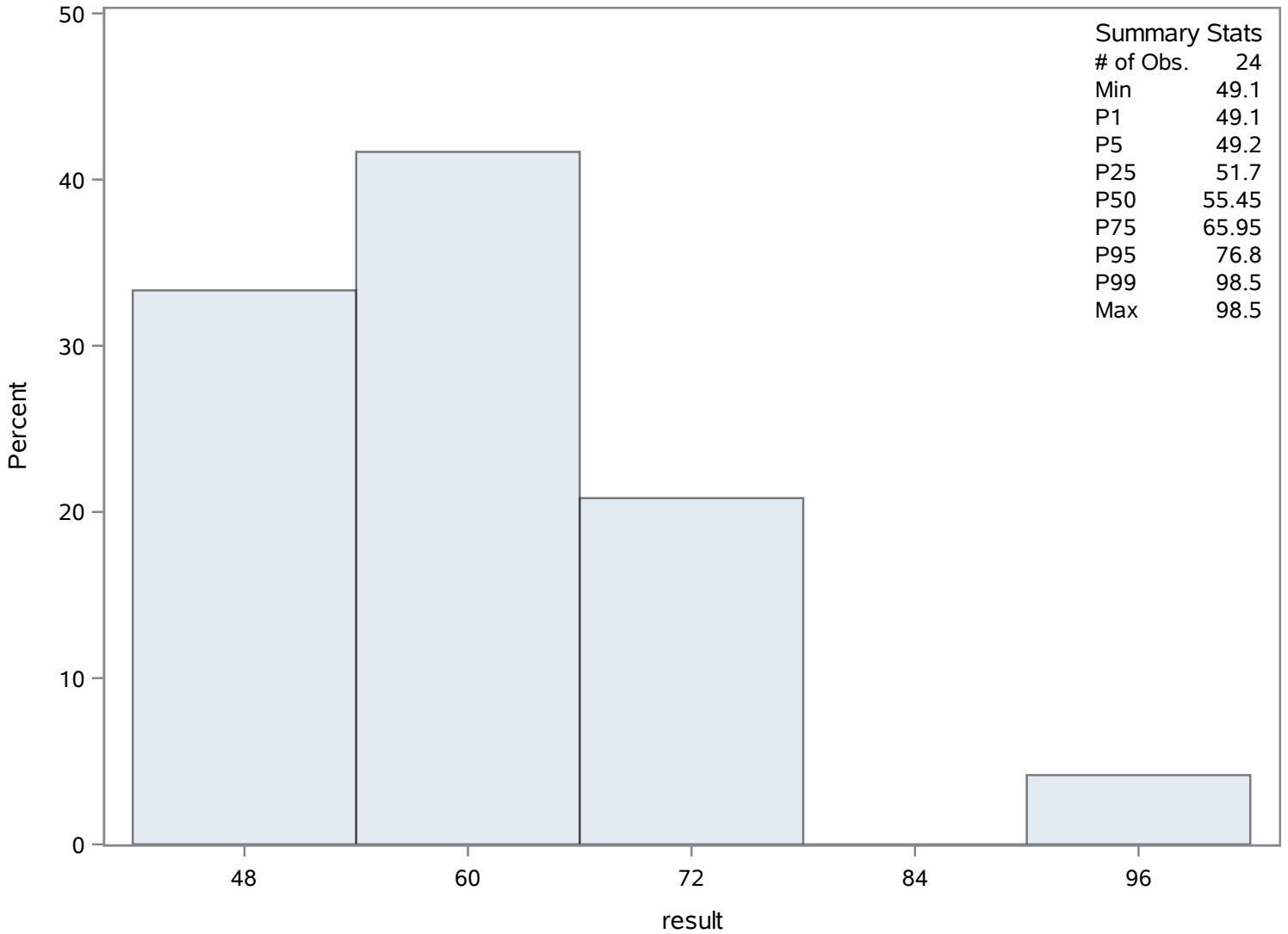
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
49.1	441	72.0	449
49.2	438	74.5	447
49.9	460	76.6	443
49.9	459	76.8	444
50.1	439	98.5	446

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Calcium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	124	Sum Weights	124
Mean	0.5963629	Sum Observations	73.949
Std Deviation	0.66988886	Variance	0.44875108
Skewness	3.9582844	Kurtosis	19.1281261
Uncorrected SS	99.296823	Corrected SS	55.1963827
Coeff Variation	112.329062	Std Error Mean	0.0601578

Basic Statistical Measures			
Location		Variability	
Mean	0.596363	Std Deviation	0.66989
Median	0.352000	Variance	0.44875
Mode	0.300000	Range	4.67000
		Interquartile Range	0.30500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.913311	Pr > t 	<.0001
Sign	M	62	Pr >= M 	<.0001
Signed Rank	S	3875	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.800
99%	4.100
95%	1.640
90%	1.000
75% Q3	0.605
50% Median	0.352
25% Q1	0.300
10%	0.220
5%	0.200
1%	0.150
0% Min	0.130

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	565	2.0	516
0.15	563	2.0	517
0.15	562	3.2	529
0.16	556	4.1	500
0.18	473	4.8	501

Chassahowitzka River - Fixed Station

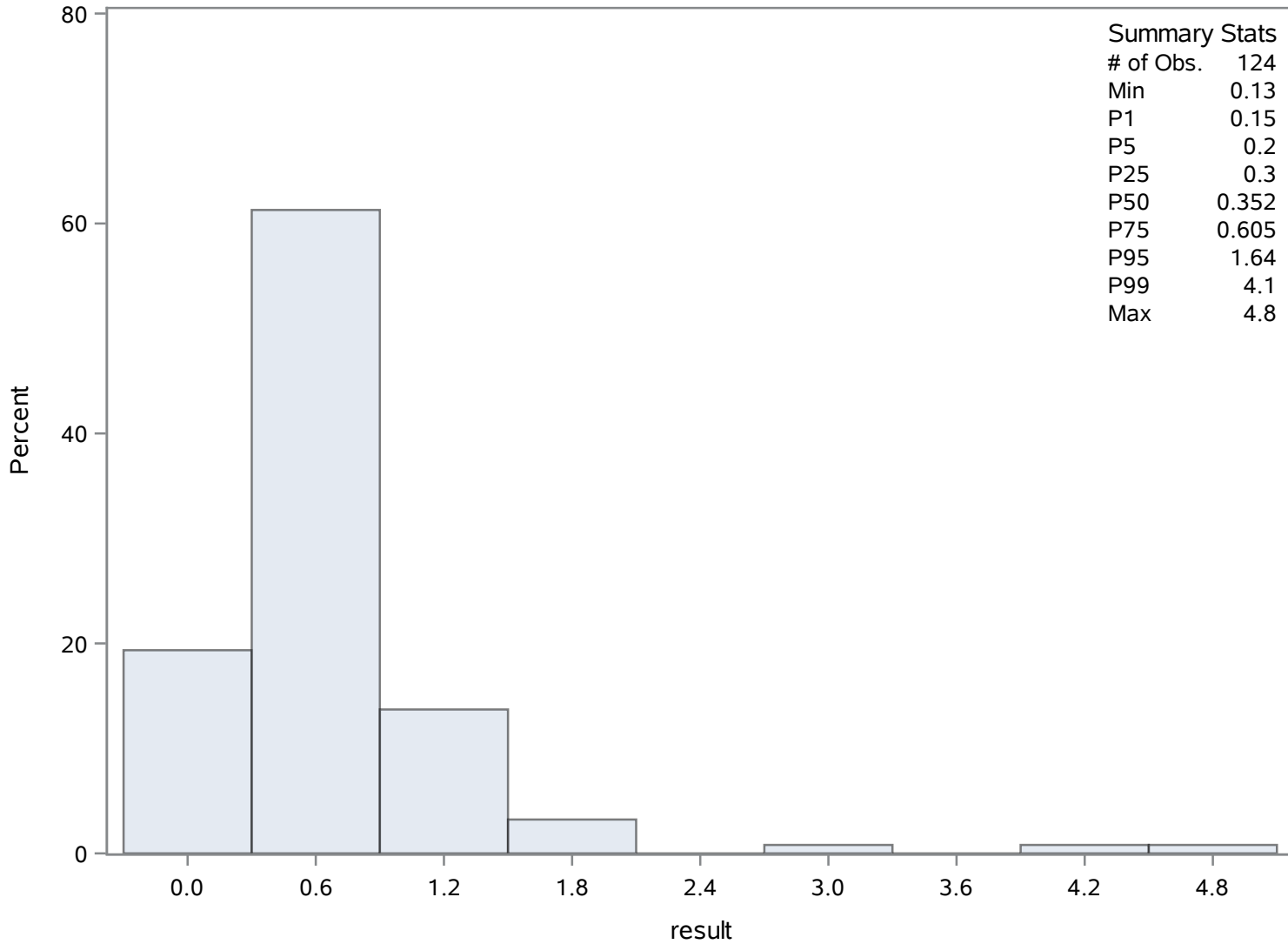
Source: Springs Data

Chassahowitzka Main Spring

Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	132	Sum Weights	132
Mean	680.114318	Sum Observations	89775.09
Std Deviation	548.788929	Variance	301169.289
Skewness	1.97348218	Kurtosis	6.57662967
Uncorrected SS	100510501	Corrected SS	39453176.9
Coeff Variation	80.690689	Std Error Mean	47.7659452

Basic Statistical Measures			
Location		Variability	
Mean	680.1143	Std Deviation	548.78893
Median	612.5000	Variance	301169
Mode	240.0000	Range	3578
		Interquartile Range	625.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.23848	Pr > t 	<.0001
Sign	M	66	Pr >= M 	<.0001
Signed Rank	S	4389	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3660.0
99%	2540.0
95%	1680.0
90%	1410.0
75% Q3	869.5
50% Median	612.5
25% Q1	244.5
10%	150.0
5%	130.0
1%	85.0
0% Min	82.3

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

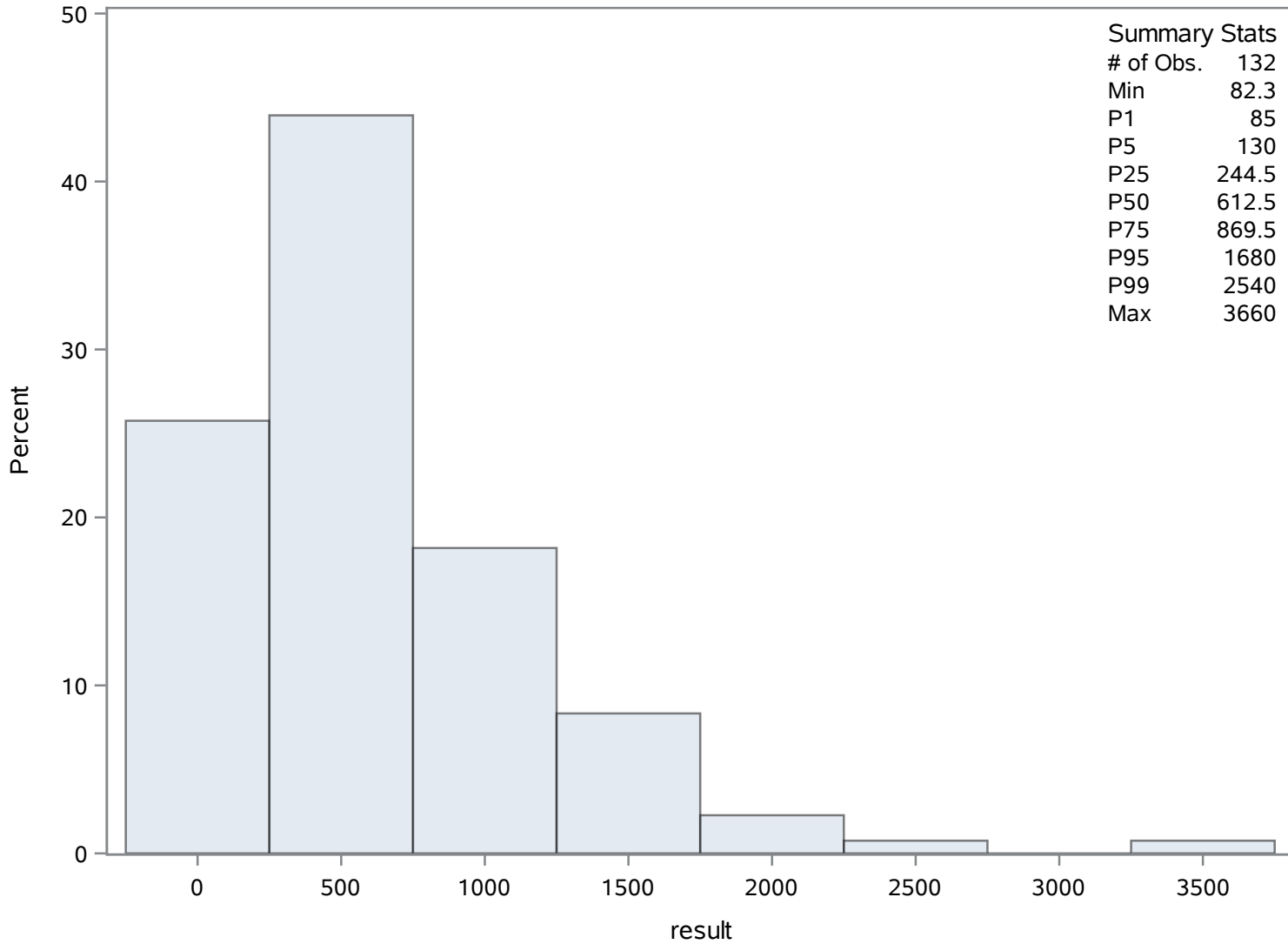
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
82.3	632	1810	639
85.0	672	1870	643
86.6	671	2210	696
91.6	655	2540	684
93.5	698	3660	677

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	56	Sum Weights	56
Mean	2.85535714	Sum Observations	159.9
Std Deviation	2.07976569	Variance	4.32542532
Skewness	0.01575631	Kurtosis	-1.9506577
Uncorrected SS	694.47	Corrected SS	237.898393
Coeff Variation	72.8373225	Std Error Mean	0.27792038

Basic Statistical Measures			
Location		Variability	
Mean	2.855357	Std Deviation	2.07977
Median	2.250000	Variance	4.32543
Mode	5.000000	Range	4.80000
		Interquartile Range	4.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.27401	Pr > t 	<.0001
Sign	M	28	Pr >= M 	<.0001
Signed Rank	S	798	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.30
99%	5.30
95%	5.00
90%	5.00
75% Q3	5.00
50% Median	2.25
25% Q1	0.70
10%	0.50
5%	0.50
1%	0.50
0% Min	0.50

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Color (Dissolved) PCU

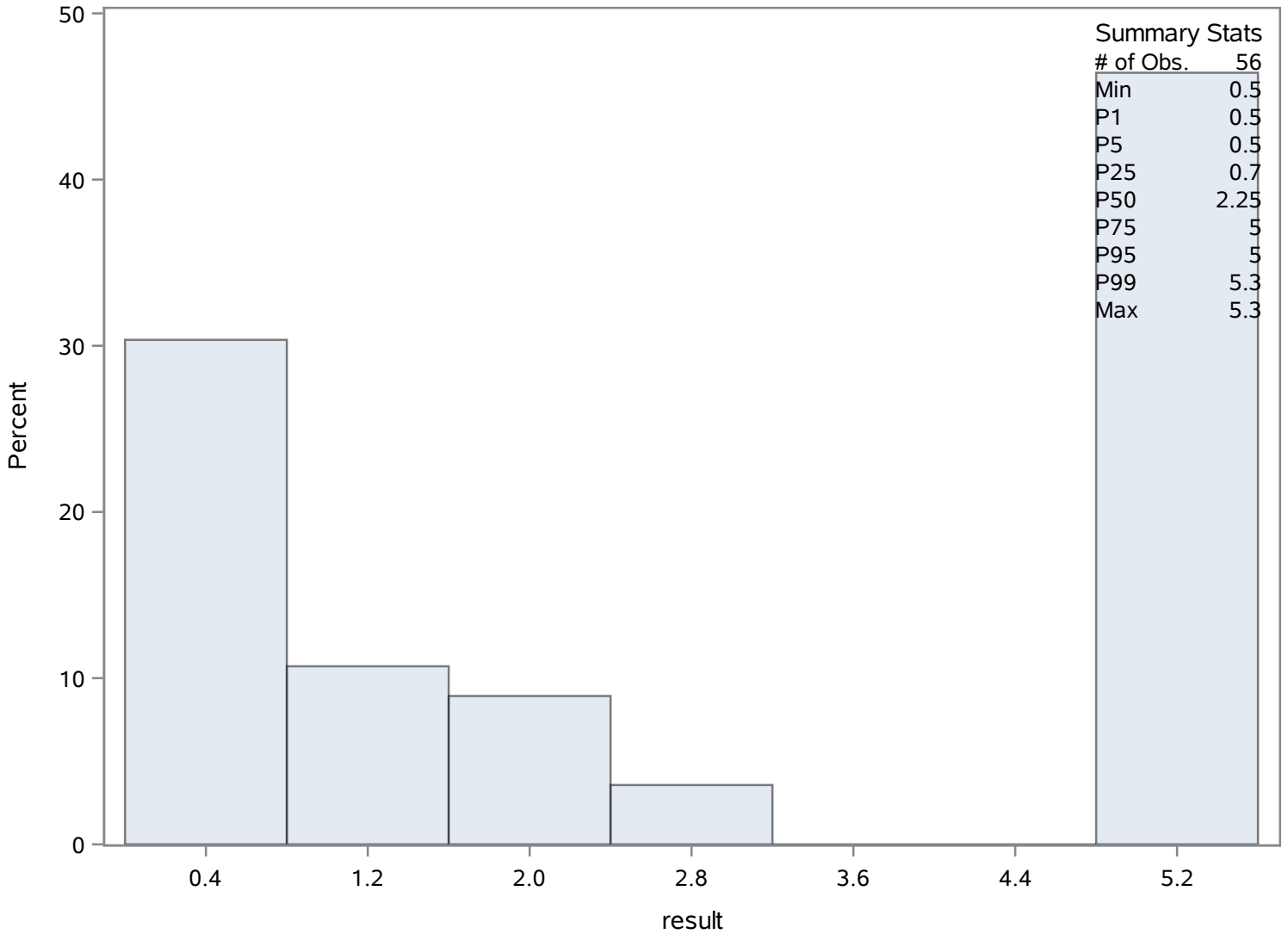
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	766	5.0	739
0.5	762	5.0	740
0.5	759	5.0	741
0.5	758	5.0	742
0.5	754	5.3	765

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	4.48	Sum Observations	304.64
Std Deviation	0.75835643	Variance	0.57510448
Skewness	-0.3241564	Kurtosis	4.42005478
Uncorrected SS	1403.3192	Corrected SS	38.532
Coeff Variation	16.9275989	Std Error Mean	0.09196423

Basic Statistical Measures			
Location		Variability	
Mean	4.480000	Std Deviation	0.75836
Median	4.485000	Variance	0.57510
Mode	4.570000	Range	5.58000
		Interquartile Range	0.67500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	48.71459	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.250
99%	7.250
95%	5.450
90%	5.200
75% Q3	4.880
50% Median	4.485
25% Q1	4.205
10%	3.680
5%	3.170
1%	1.670
0% Min	1.670

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Dissolved Oxygen (Total) mg/L

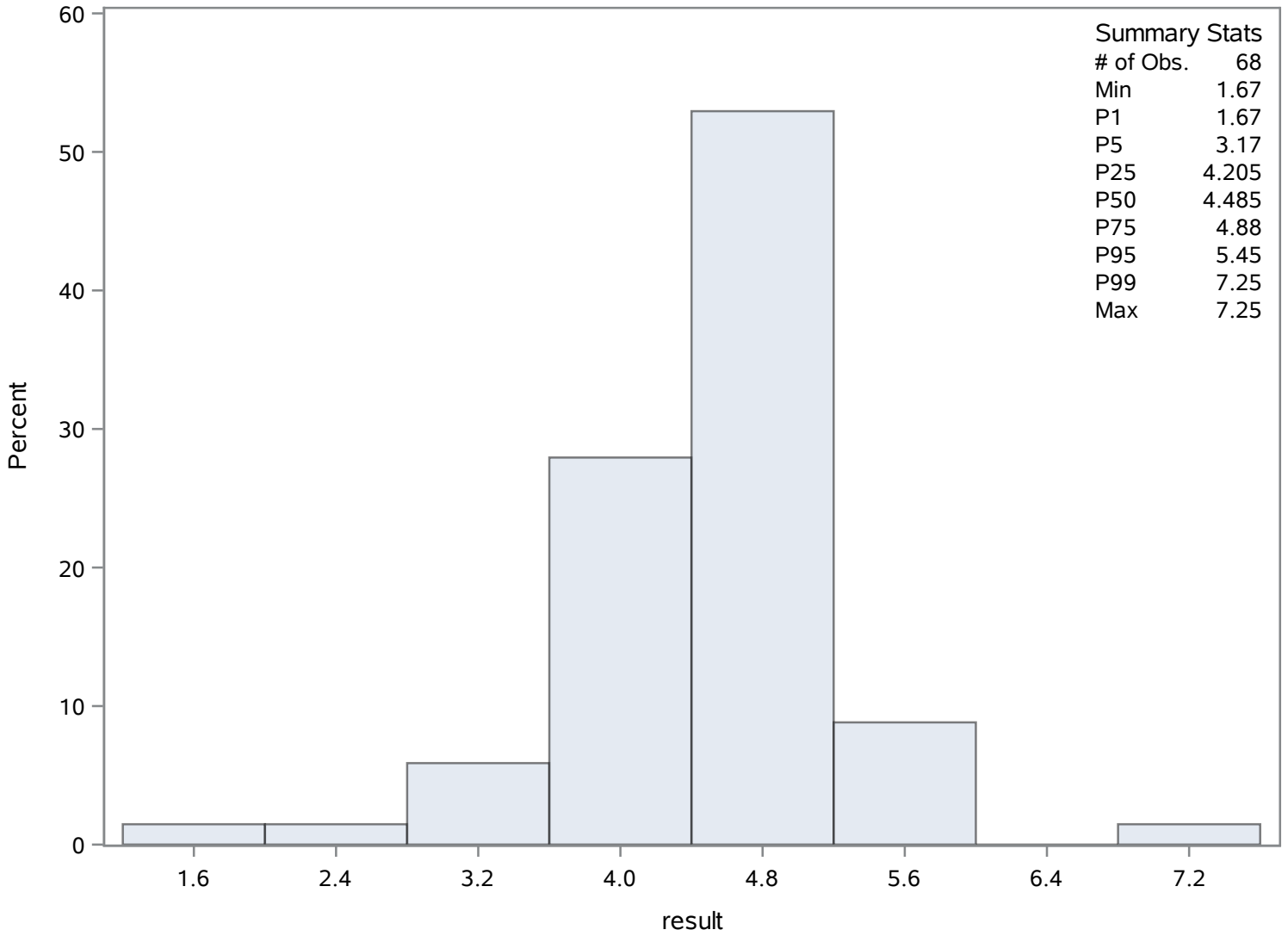
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.67	807	5.28	790
2.63	779	5.45	810
3.12	800	5.60	792
3.17	776	5.87	791
3.18	778	7.25	827

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	102	Sum Weights	102
Mean	0.14142157	Sum Observations	14.425
Std Deviation	0.02305329	Variance	0.00053145
Skewness	0.04743286	Kurtosis	4.07735211
Uncorrected SS	2.093683	Corrected SS	0.05367687
Coeff Variation	16.3011133	Std Error Mean	0.00228262

Basic Statistical Measures			
Location		Variability	
Mean	0.141422	Std Deviation	0.02305
Median	0.140000	Variance	0.0005315
Mode	0.140000	Range	0.17000
		Interquartile Range	0.02000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	61.95592	Pr > t 	<.0001
Sign	M	51	Pr >= M 	<.0001
Signed Rank	S	2626.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.220
99%	0.202
95%	0.180
90%	0.169
75% Q3	0.150
50% Median	0.140
25% Q1	0.130
10%	0.120
5%	0.110
1%	0.080
0% Min	0.050

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Dissolved) mg/L

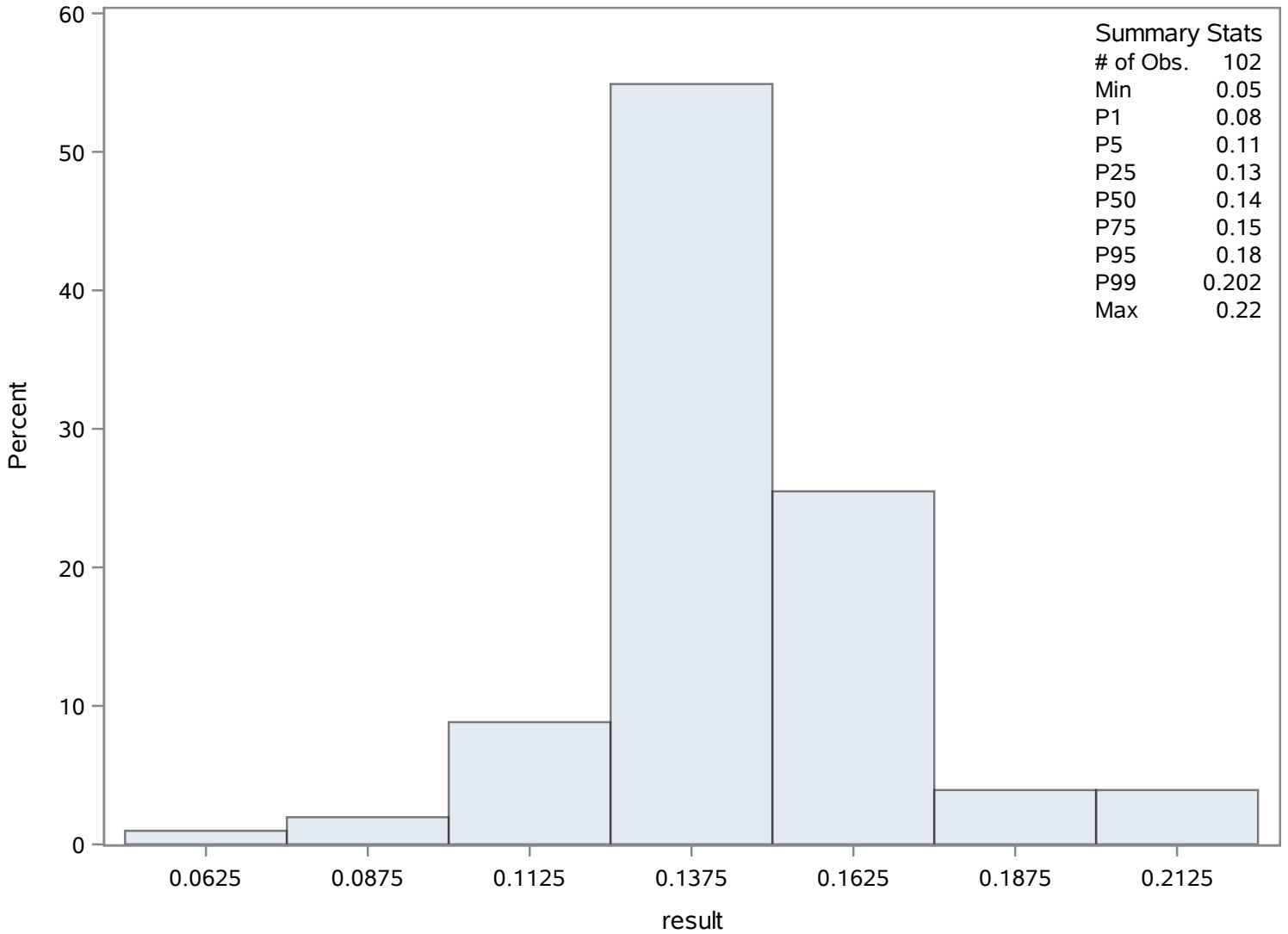
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	859	0.190	903
0.080	897	0.200	868
0.080	896	0.200	870
0.109	845	0.202	854
0.110	880	0.220	862

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	0.14067391	Sum Observations	6.471
Std Deviation	0.02877117	Variance	0.00082778
Skewness	0.35769523	Kurtosis	2.5068106
Uncorrected SS	0.947551	Corrected SS	0.03725011
Coeff Variation	20.4523844	Std Error Mean	0.00424208

Basic Statistical Measures			
Location		Variability	
Mean	0.140674	Std Deviation	0.02877
Median	0.135000	Variance	0.0008278
Mode	0.130000	Range	0.17000
		Interquartile Range	0.02000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	33.16156	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.220
99%	0.220
95%	0.200
90%	0.176
75% Q3	0.150
50% Median	0.135
25% Q1	0.130
10%	0.112
5%	0.110
1%	0.050
0% Min	0.050

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

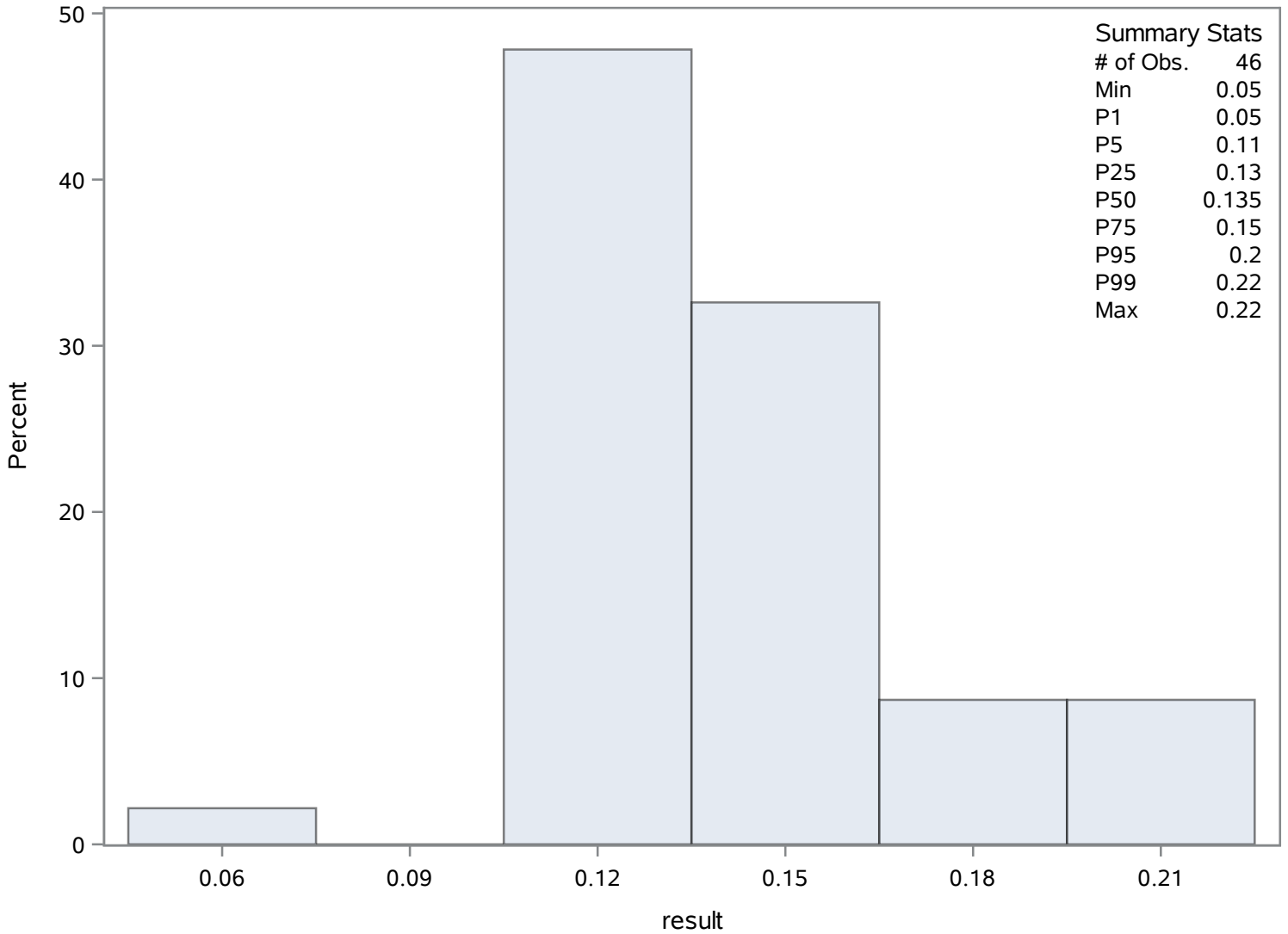
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	960	0.176	957
0.109	946	0.200	967
0.110	979	0.200	969
0.110	958	0.202	955
0.112	953	0.220	963

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Hardness (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	22	Sum Weights	22
Mean	337.984009	Sum Observations	7435.6482
Std Deviation	165.157298	Variance	27276.933
Skewness	1.56490314	Kurtosis	2.54385985
Uncorrected SS	3085945.78	Corrected SS	572815.593
Coeff Variation	48.8654177	Std Error Mean	35.2116542

Basic Statistical Measures			
Location		Variability	
Mean	337.9840	Std Deviation	165.15730
Median	326.9196	Variance	27277
Mode	239.0000	Range	616.53700
		Interquartile Range	197.83760

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.59864	Pr > t 	<.0001
Sign	M	11	Pr >= M 	<.0001
Signed Rank	S	126.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	787.537
99%	787.537
95%	740.115
90%	434.000
75% Q3	414.598
50% Median	326.920
25% Q1	216.760
10%	188.740
5%	174.901
1%	171.000
0% Min	171.000

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Hardness (Total) mg/L

The UNIVARIATE Procedure
Variable: result

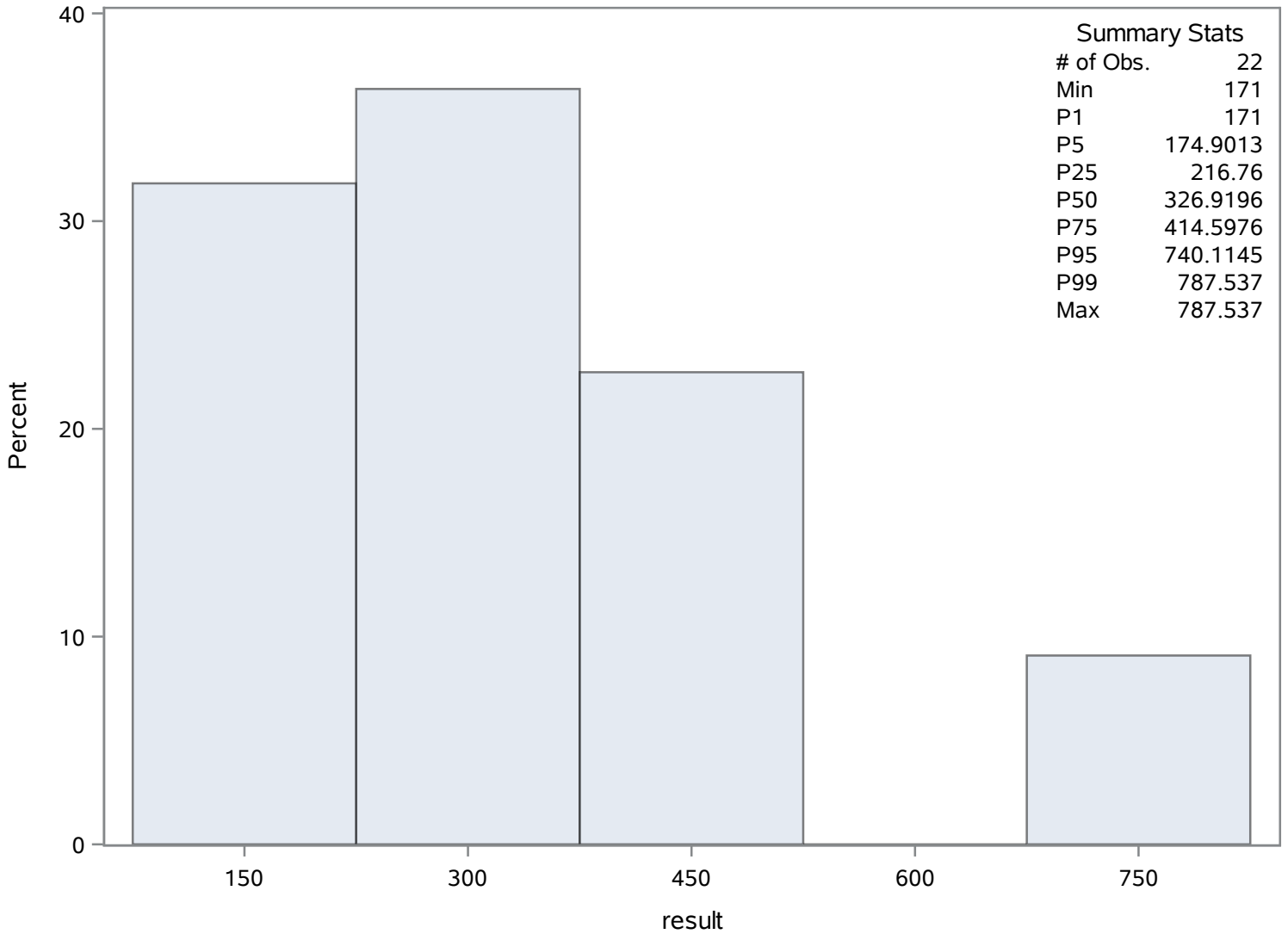
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
171.000	992	420.512	1008
174.901	1002	433.000	993
188.740	999	434.000	994
190.164	1000	740.115	1009
206.964	1001	787.537	1010

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Hardness (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	122	Sum Weights	122
Mean	25.649918	Sum Observations	3129.29
Std Deviation	20.2600671	Variance	410.470318
Skewness	3.24859615	Kurtosis	21.2988619
Uncorrected SS	129932.941	Corrected SS	49666.9085
Coeff Variation	78.9868687	Std Error Mean	1.83426029

Basic Statistical Measures			
Location		Variability	
Mean	25.64992	Std Deviation	20.26007
Median	25.70000	Variance	410.47032
Mode	30.00000	Range	169.50000
		Interquartile Range	18.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.98379	Pr > t 	<.0001
Sign	M	61	Pr >= M 	<.0001
Signed Rank	S	3751.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	172.0
99%	60.0
95%	53.0
90%	49.0
75% Q3	31.0
50% Median	25.7
25% Q1	12.5
10%	5.6
5%	5.0
1%	2.5
0% Min	2.5

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

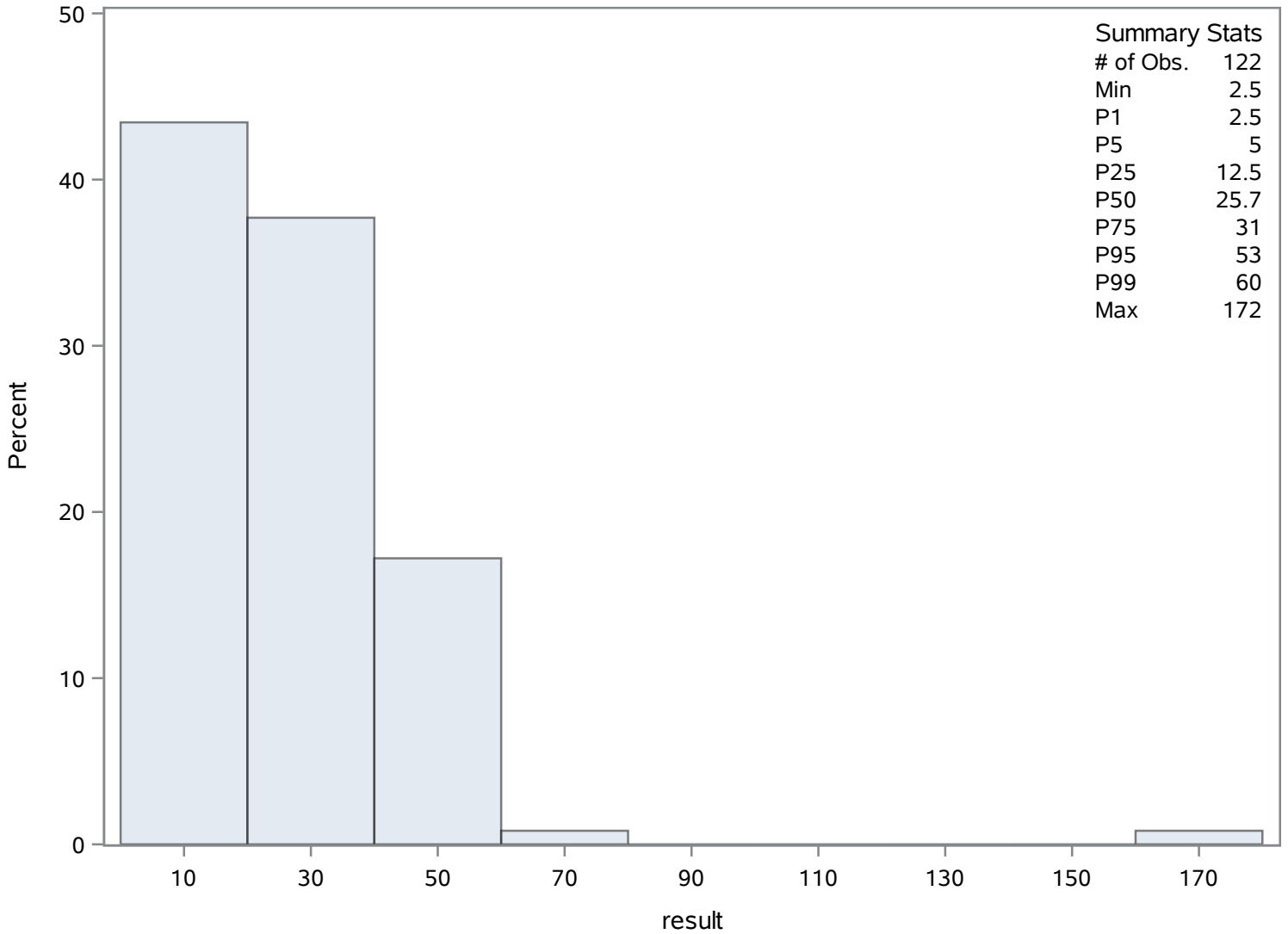
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.5	1115	59	1014
2.5	1114	59	1043
2.5	1113	59	1044
2.5	1108	60	1065
5.0	1087	172	1039

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	105	Sum Weights	105
Mean	54.4071429	Sum Observations	5712.75
Std Deviation	35.1275184	Variance	1233.94255
Skewness	1.56698475	Kurtosis	4.2502819
Uncorrected SS	439144.43	Corrected SS	128330.025
Coeff Variation	64.5641666	Std Error Mean	3.42809477

Basic Statistical Measures			
Location		Variability	
Mean	54.40714	Std Deviation	35.12752
Median	49.69000	Variance	1234
Mode	14.30000	Range	209.30000
		Interquartile Range	43.30000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.87096	Pr > t 	<.0001
Sign	M	52.5	Pr >= M 	<.0001
Signed Rank	S	2782.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	222.00
99%	154.00
95%	116.00
90%	108.00
75% Q3	68.00
50% Median	49.69
25% Q1	24.70
10%	16.80
5%	15.50

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	13.00
0% Min	12.70

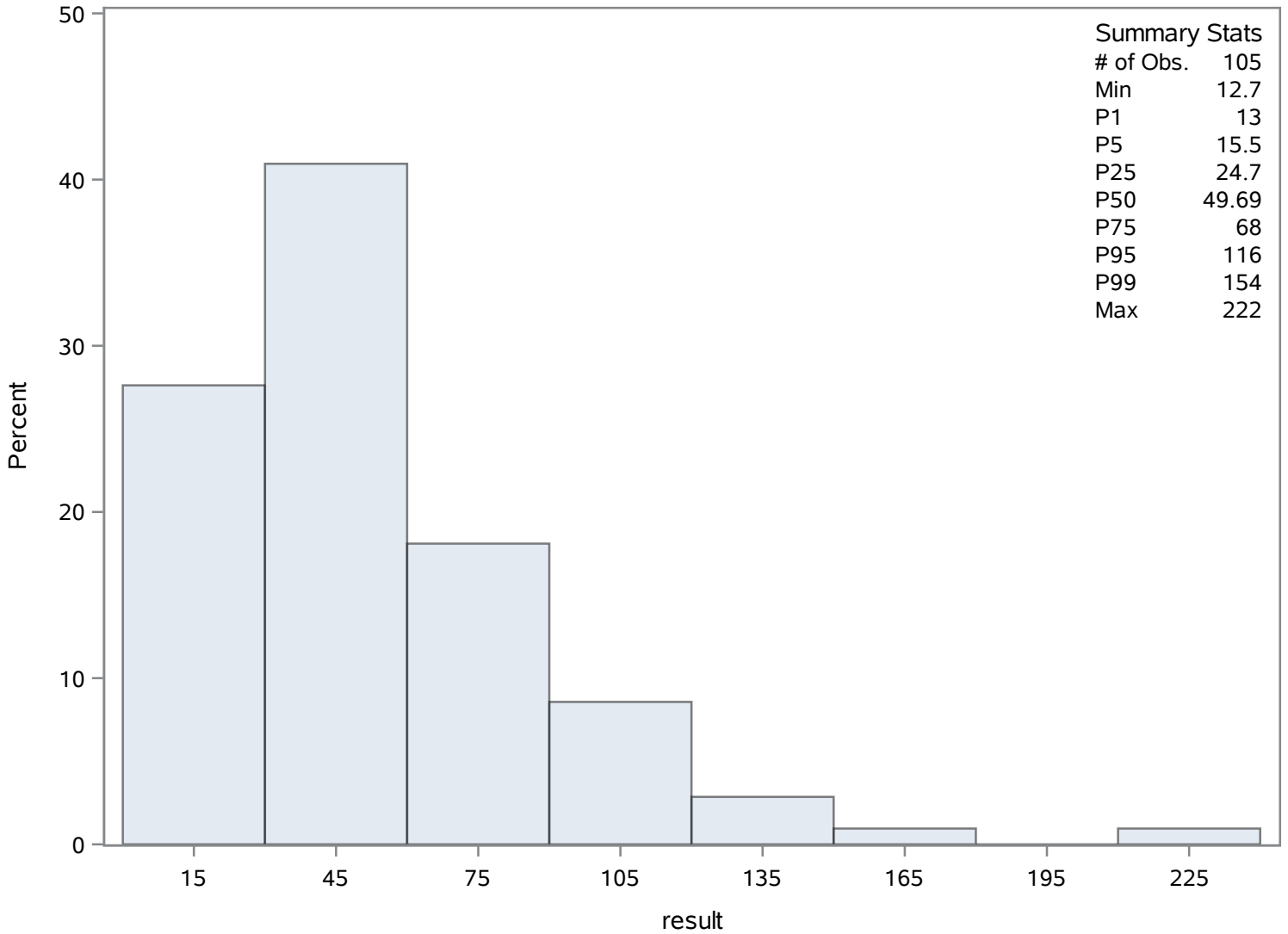
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.7	1152	120	1158
13.0	1137	125	1163
14.1	1190	130	1159
14.3	1193	154	1217
14.3	1192	222	1198

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Magnesium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	41	Sum Weights	41
Mean	37.8907317	Sum Observations	1553.52
Std Deviation	20.0633527	Variance	402.538122
Skewness	0.95944441	Kurtosis	0.59316567
Uncorrected SS	74965.5344	Corrected SS	16101.5249
Coeff Variation	52.9505549	Std Error Mean	3.13336927

Basic Statistical Measures			
Location		Variability	
Mean	37.89073	Std Deviation	20.06335
Median	34.00000	Variance	402.53812
Mode	23.00000	Range	84.60000
		Interquartile Range	27.60000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.09265	Pr > t 	<.0001
Sign	M	20.5	Pr >= M 	<.0001
Signed Rank	S	430.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	97.6
99%	97.6
95%	71.0
90%	63.0
75% Q3	48.1
50% Median	34.0
25% Q1	20.5
10%	17.6
5%	15.9
1%	13.0
0% Min	13.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Total) mg/L

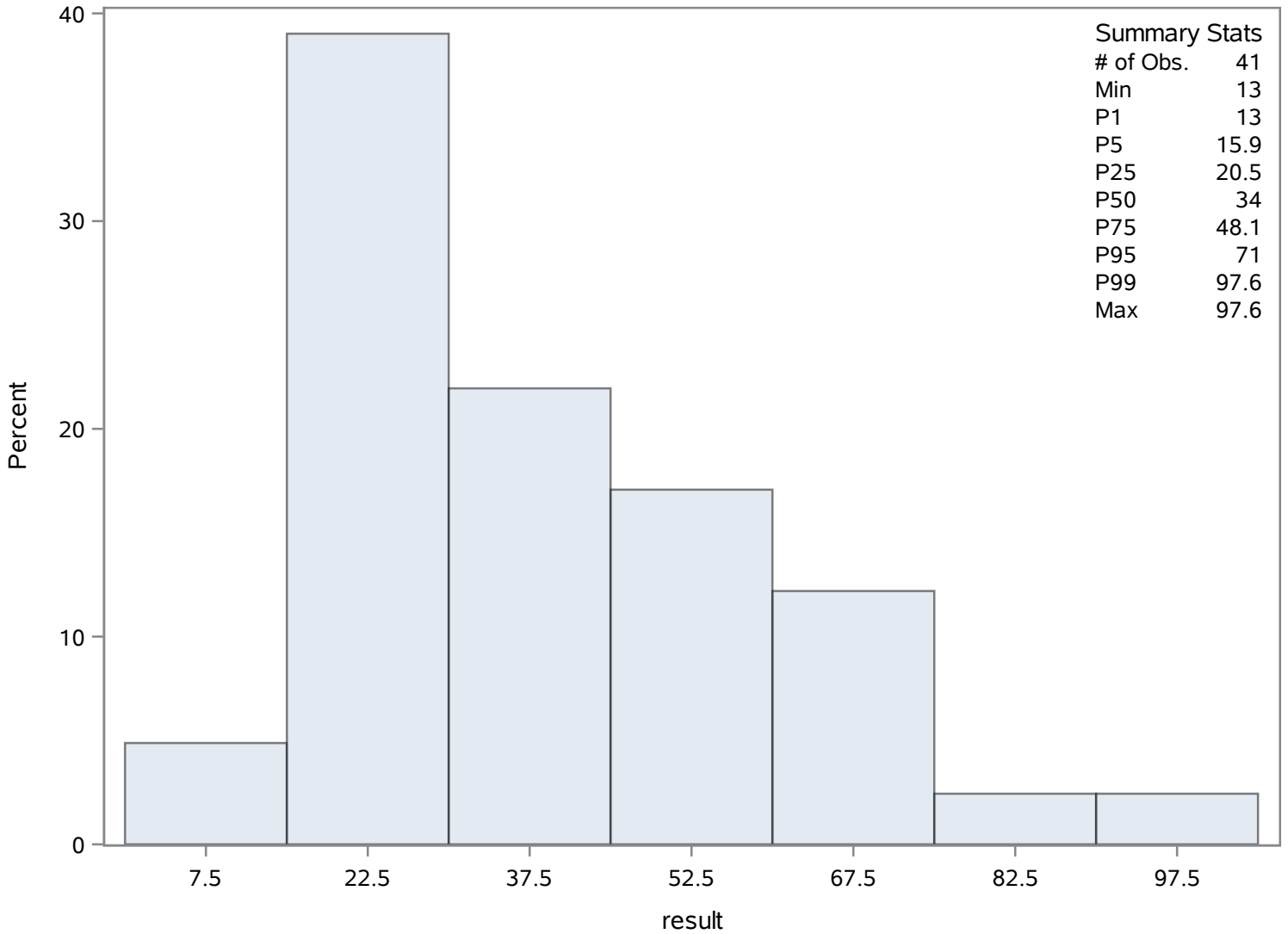
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.0	1247	63.0	1241
14.8	1279	69.0	1267
15.9	1277	71.0	1258
16.5	1271	80.2	1260
17.6	1278	97.6	1259

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Manganese (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	2.0572	Sum Observations	51.43
Std Deviation	1.52351162	Variance	2.32108767
Skewness	1.53093399	Kurtosis	2.13893602
Uncorrected SS	161.5079	Corrected SS	55.706104
Coeff Variation	74.0575357	Std Error Mean	0.30470232

Basic Statistical Measures			
Location		Variability	
Mean	2.057200	Std Deviation	1.52351
Median	1.650000	Variance	2.32109
Mode	0.500000	Range	6.09000
		Interquartile Range	0.96000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.751507	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.59
99%	6.59
95%	4.68
90%	4.64
75% Q3	2.16
50% Median	1.65
25% Q1	1.20
10%	0.55
5%	0.50

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Manganese (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.50
0% Min	0.50

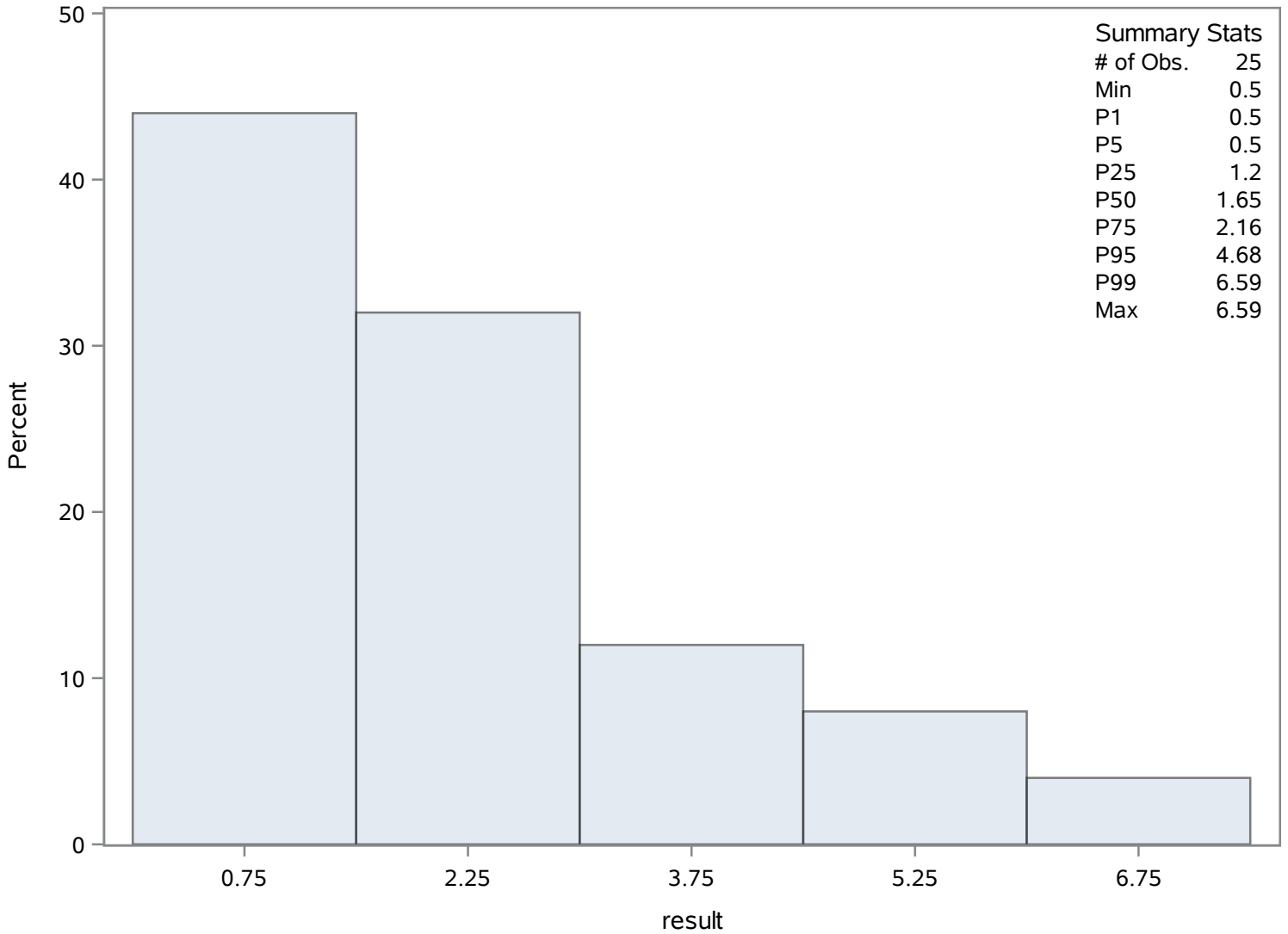
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	1285	3.34	1282
0.50	1284	4.02	1296
0.55	1301	4.64	1280
0.65	1286	4.68	1303
0.69	1281	6.59	1304

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Manganese (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	42	Sum Weights	42
Mean	0.41650238	Sum Observations	17.4931
Std Deviation	0.10761335	Variance	0.01158063
Skewness	-2.6916513	Kurtosis	8.20817251
Uncorrected SS	7.76072375	Corrected SS	0.47480595
Coeff Variation	25.8373911	Std Error Mean	0.0166051

Basic Statistical Measures			
Location		Variability	
Mean	0.416502	Std Deviation	0.10761
Median	0.440050	Variance	0.01158
Mode	0.380000	Range	0.51500
		Interquartile Range	0.07920

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.0828	Pr > t 	<.0001
Sign	M	21	Pr >= M 	<.0001
Signed Rank	S	451.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.52500
99%	0.52500
95%	0.51900
90%	0.49900
75% Q3	0.46920
50% Median	0.44005
25% Q1	0.39000
10%	0.35900
5%	0.25400

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.01000
0% Min	0.01000

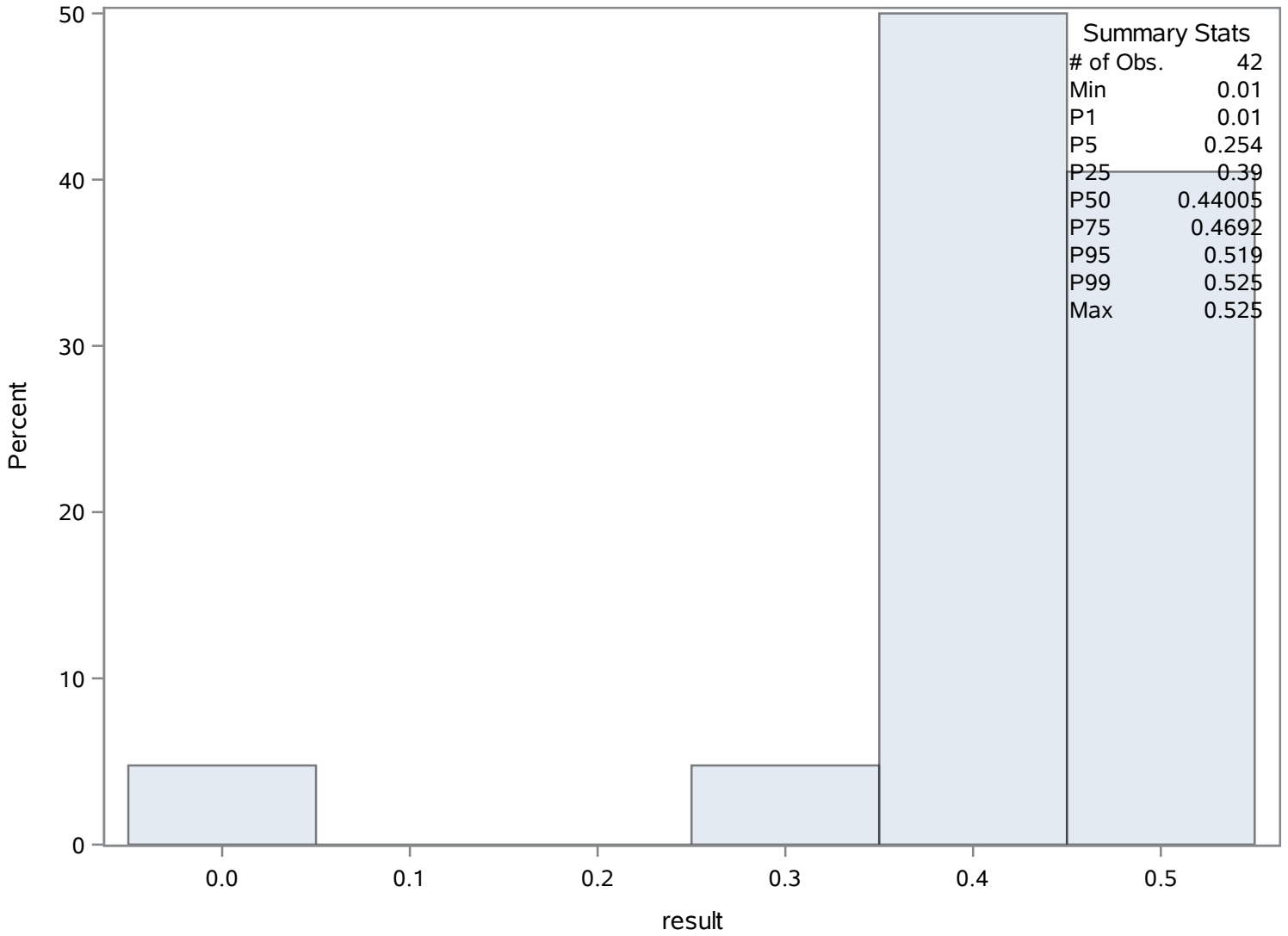
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	1325	0.499	1341
0.018	1324	0.500	1335
0.254	1323	0.519	1342
0.270	1330	0.522	1328
0.359	1314	0.525	1343

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	0.36366667	Sum Observations	7.637
Std Deviation	0.11441693	Variance	0.01309123
Skewness	-1.5813019	Kurtosis	2.87728958
Uncorrected SS	3.039147	Corrected SS	0.26182467
Coeff Variation	31.4620333	Std Error Mean	0.02496782

Basic Statistical Measures			
Location		Variability	
Mean	0.363667	Std Deviation	0.11442
Median	0.389000	Variance	0.01309
Mode	0.458000	Range	0.47200
		Interquartile Range	0.10900

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.56541	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.490
99%	0.490
95%	0.468
90%	0.458
75% Q3	0.438
50% Median	0.389
25% Q1	0.329
10%	0.214
5%	0.211
1%	0.018
0% Min	0.018

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

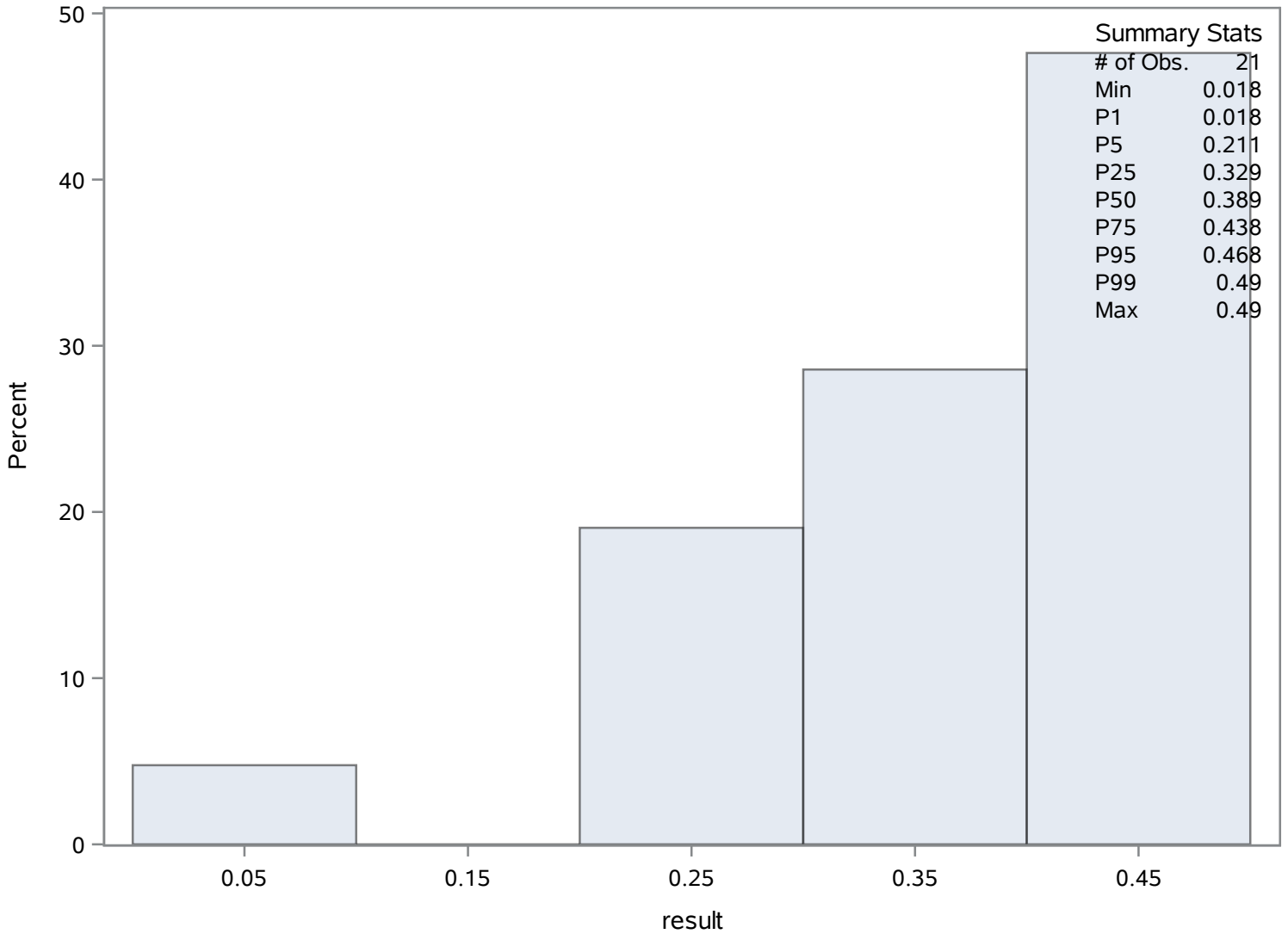
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.018	1367	0.446	1361
0.211	1357	0.458	1349
0.214	1358	0.458	1356
0.254	1366	0.468	1363
0.288	1360	0.490	1364

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	77	Sum Weights	77
Mean	0.45851688	Sum Observations	35.3058
Std Deviation	0.09695323	Variance	0.00939993
Skewness	-2.6621444	Kurtosis	10.1791909
Uncorrected SS	16.9026999	Corrected SS	0.71439455
Coeff Variation	21.1449634	Std Error Mean	0.01104885

Basic Statistical Measures			
Location		Variability	
Mean	0.458517	Std Deviation	0.09695
Median	0.468000	Variance	0.00940
Mode	0.458000	Range	0.56200
		Interquartile Range	0.08500

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	41.49908	Pr > t 	<.0001
Sign	M	38.5	Pr >= M 	<.0001
Signed Rank	S	1501.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.572
99%	0.572
95%	0.570
90%	0.545
75% Q3	0.521
50% Median	0.468
25% Q1	0.436
10%	0.381
5%	0.270

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

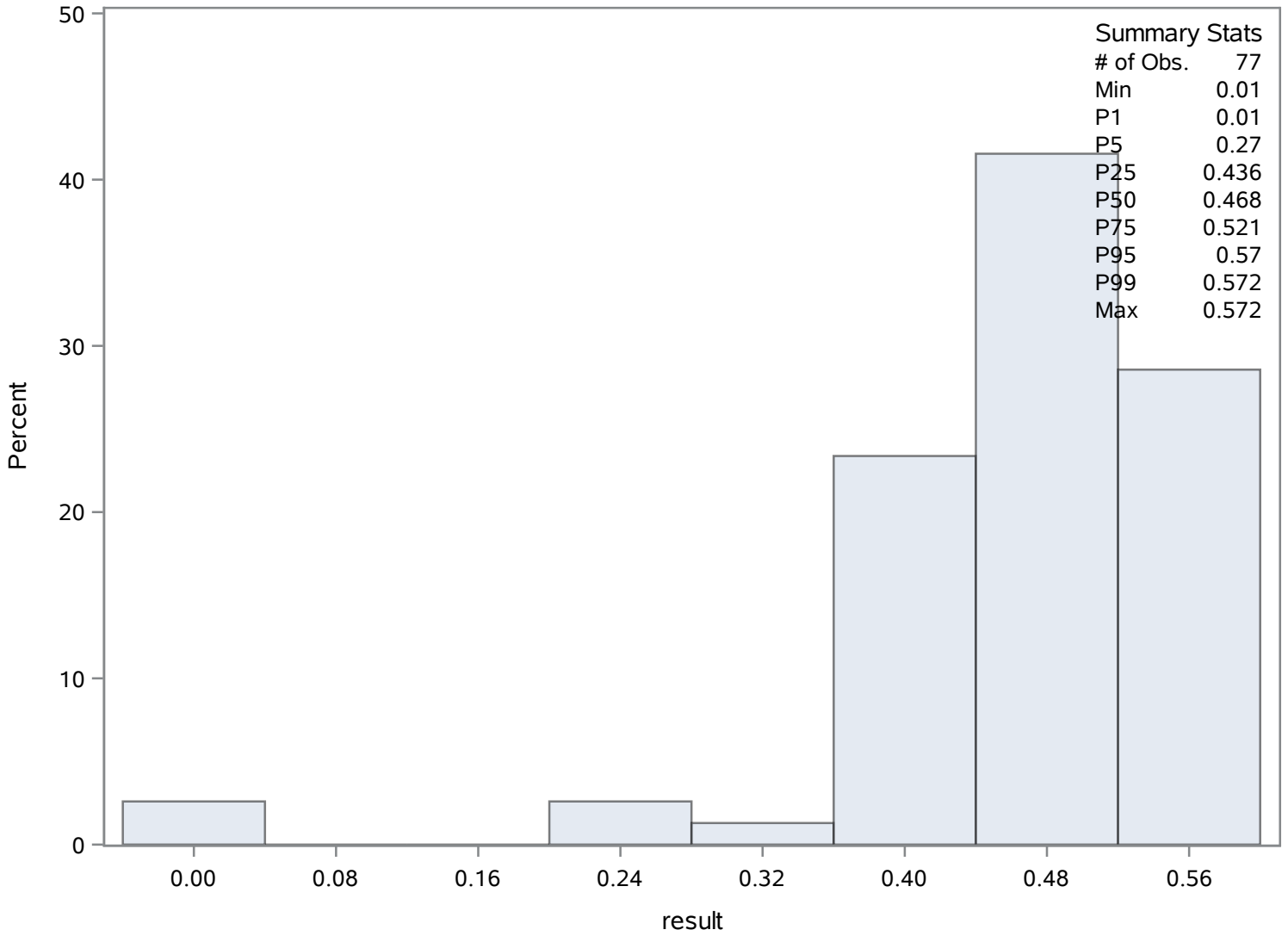
Quantiles (Definition 5)	
Level	Quantile
1%	0.010
0% Min	0.010

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	1393	0.561	1440
0.019	1392	0.570	1414
0.254	1391	0.570	1424
0.270	1398	0.570	1429
0.359	1382	0.572	1443

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	57	Sum Weights	57
Mean	0.51950877	Sum Observations	29.612
Std Deviation	0.09664887	Variance	0.009341
Skewness	-1.1965031	Kurtosis	0.39861232
Uncorrected SS	15.90679	Corrected SS	0.52309625
Coeff Variation	18.603896	Std Error Mean	0.01280146

Basic Statistical Measures			
Location		Variability	
Mean	0.519509	Std Deviation	0.09665
Median	0.566000	Variance	0.00934
Mode	0.560000	Range	0.35400
		Interquartile Range	0.11900

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	40.58201	Pr > t 	<.0001
Sign	M	28.5	Pr >= M 	<.0001
Signed Rank	S	826.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.624
99%	0.624
95%	0.615
90%	0.606
75% Q3	0.589
50% Median	0.566
25% Q1	0.470
10%	0.384
5%	0.296

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.270
0% Min	0.270

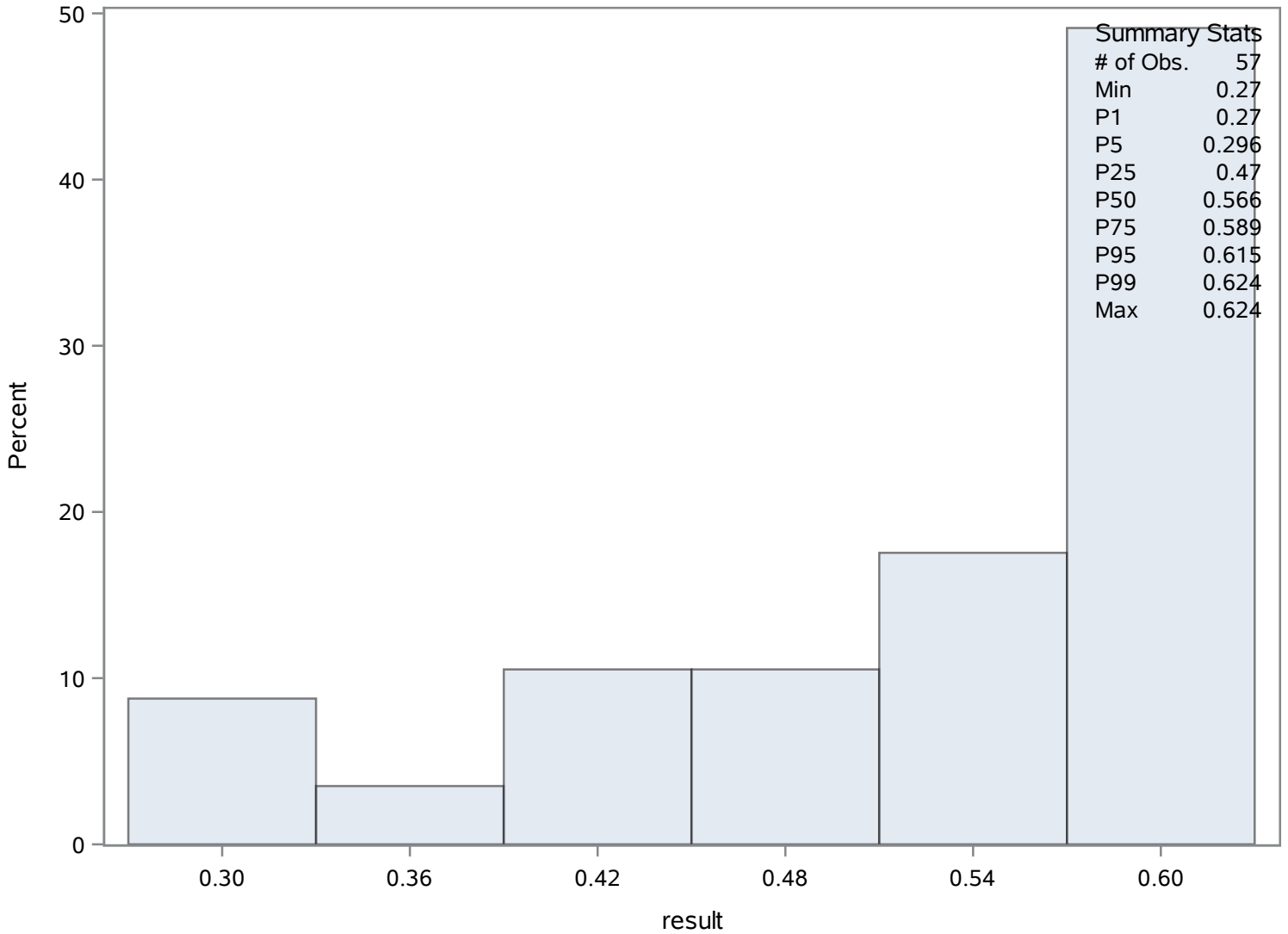
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.270	1453	0.607	1472
0.272	1454	0.609	1484
0.296	1446	0.615	1474
0.320	1447	0.619	1475
0.324	1448	0.624	1498

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	44	Sum Weights	44
Mean	0.00542045	Sum Observations	0.2385
Std Deviation	0.00219392	Variance	4.81329E-6
Skewness	0.85084098	Kurtosis	0.78154403
Uncorrected SS	0.00149975	Corrected SS	0.00020697
Coeff Variation	40.4748674	Std Error Mean	0.00033075

Basic Statistical Measures			
Location		Variability	
Mean	0.005420	Std Deviation	0.00219
Median	0.005000	Variance	4.81329E-6
Mode	0.005000	Range	0.00900
		Interquartile Range	0.00100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.38856	Pr > t 	<.0001
Sign	M	22	Pr >= M 	<.0001
Signed Rank	S	495	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0100
75% Q3	0.0060
50% Median	0.0050
25% Q1	0.0050
10%	0.0025
5%	0.0025
1%	0.0010
0% Min	0.0010

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

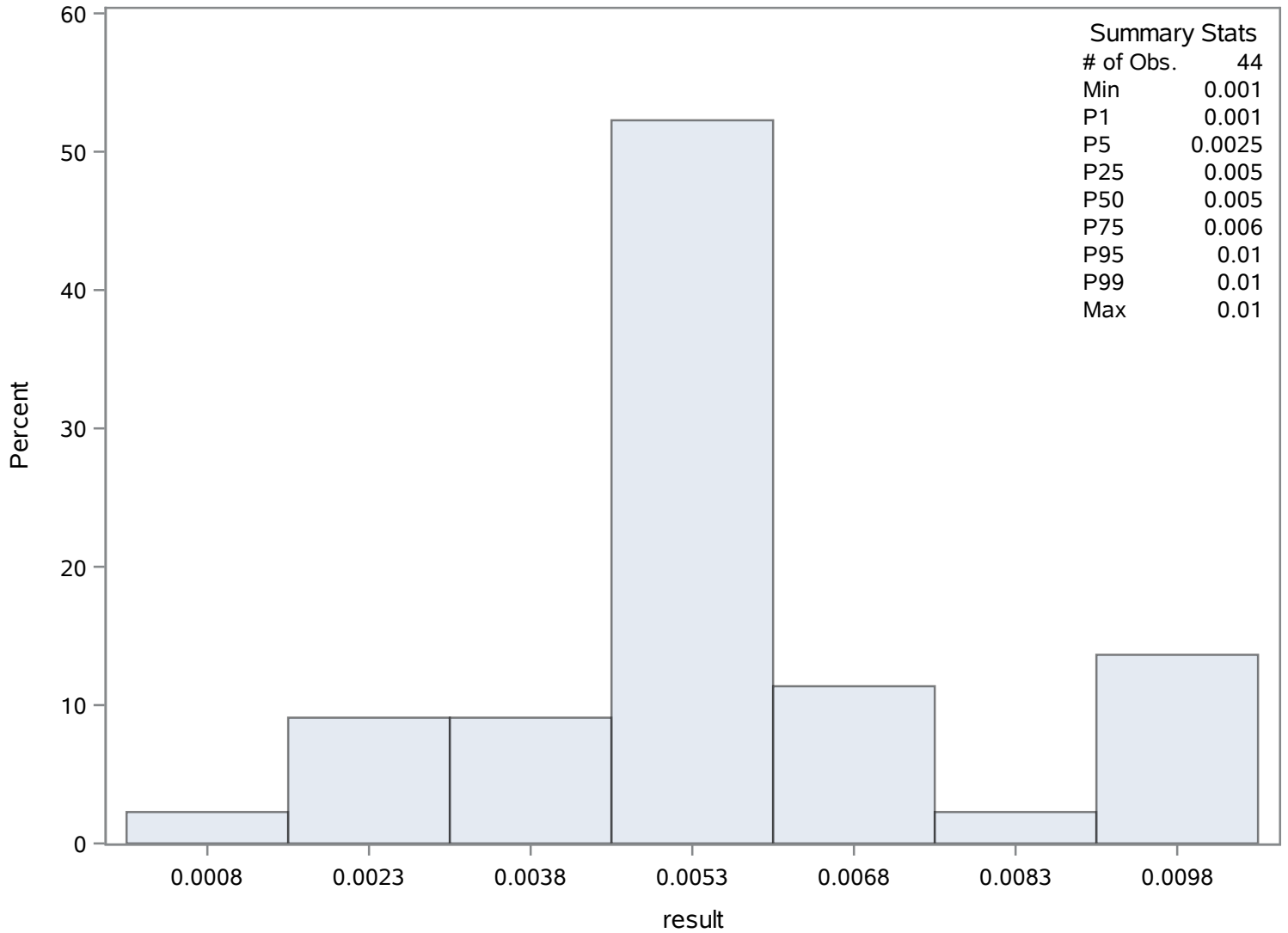
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0010	1506	0.01	1508
0.0020	1504	0.01	1509
0.0025	1523	0.01	1511
0.0025	1522	0.01	1512
0.0025	1521	0.01	1513

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	50	Sum Weights	50
Mean	0.00503	Sum Observations	0.2515
Std Deviation	0.00250389	Variance	6.26949E-6
Skewness	1.23263144	Kurtosis	0.34976785
Uncorrected SS	0.00157225	Corrected SS	0.00030721
Coeff Variation	49.7792232	Std Error Mean	0.0003541

Basic Statistical Measures			
Location		Variability	
Mean	0.005030	Std Deviation	0.00250
Median	0.004000	Variance	6.26949E-6
Mode	0.004000	Range	0.00900
		Interquartile Range	0.00100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.20486	Pr > t 	<.0001
Sign	M	25	Pr >= M 	<.0001
Signed Rank	S	637.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0100
75% Q3	0.0050
50% Median	0.0040
25% Q1	0.0040
10%	0.0025
5%	0.0025
1%	0.0010
0% Min	0.0010

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

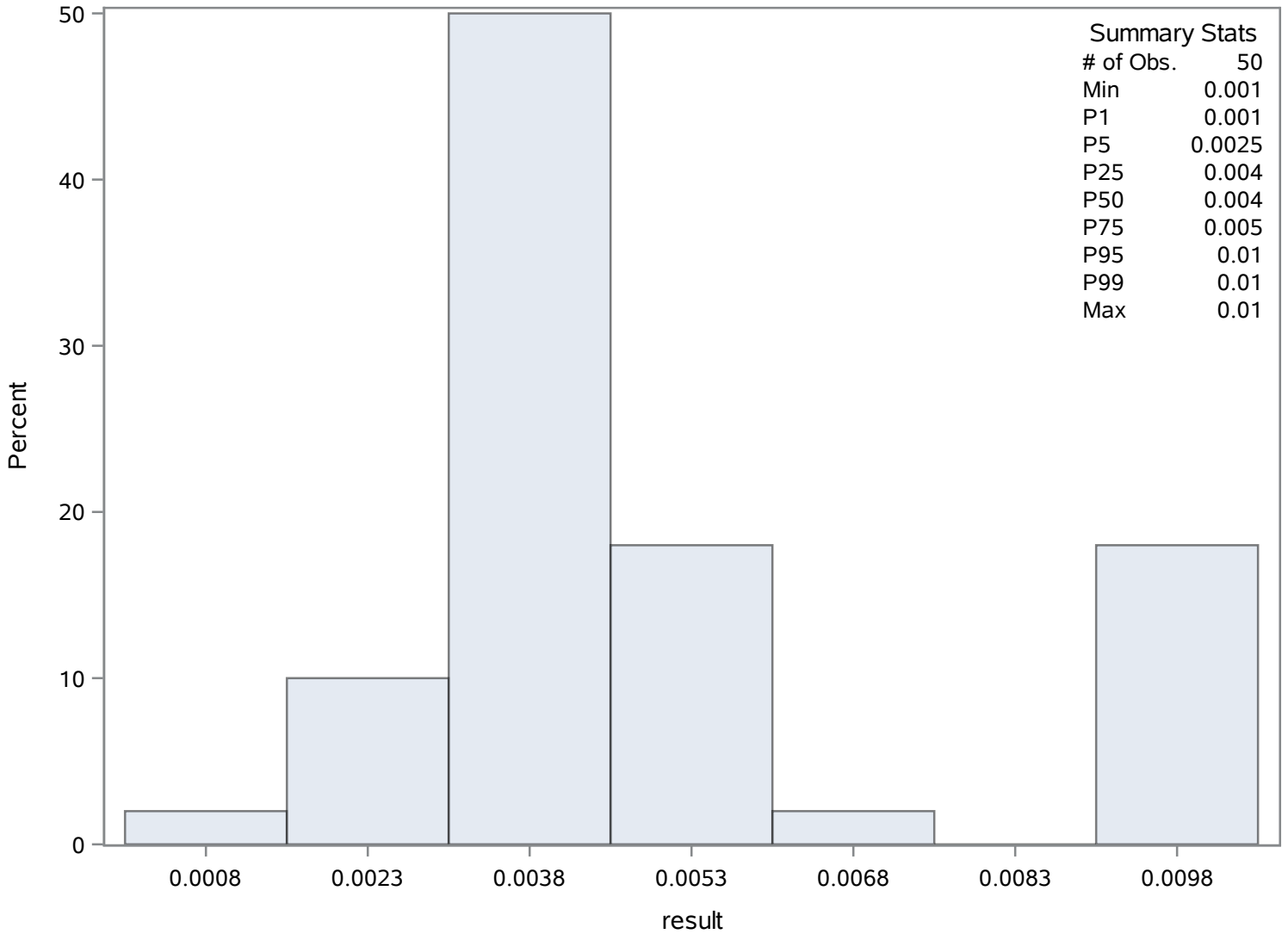
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0010	1546	0.01	1552
0.0025	1572	0.01	1553
0.0025	1570	0.01	1554
0.0025	1569	0.01	1555
0.0025	1568	0.01	1556

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Nitrogen- Total (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	20	Sum Weights	20
Mean	0.56425	Sum Observations	11.285
Std Deviation	0.07323637	Variance	0.00536357
Skewness	0.49261797	Kurtosis	-0.1590393
Uncorrected SS	6.469469	Corrected SS	0.10190775
Coeff Variation	12.9794186	Std Error Mean	0.01637615

Basic Statistical Measures			
Location		Variability	
Mean	0.564250	Std Deviation	0.07324
Median	0.555000	Variance	0.00536
Mode	0.550000	Range	0.27200
		Interquartile Range	0.09650

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	34.4556	Pr > t 	<.0001
Sign	M	10	Pr >= M 	<.0001
Signed Rank	S	105	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.7300
99%	0.7300
95%	0.6950
90%	0.6600
75% Q3	0.6065
50% Median	0.5550
25% Q1	0.5100
10%	0.4720
5%	0.4640
1%	0.4580
0% Min	0.4580

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Dissolved) mg/L

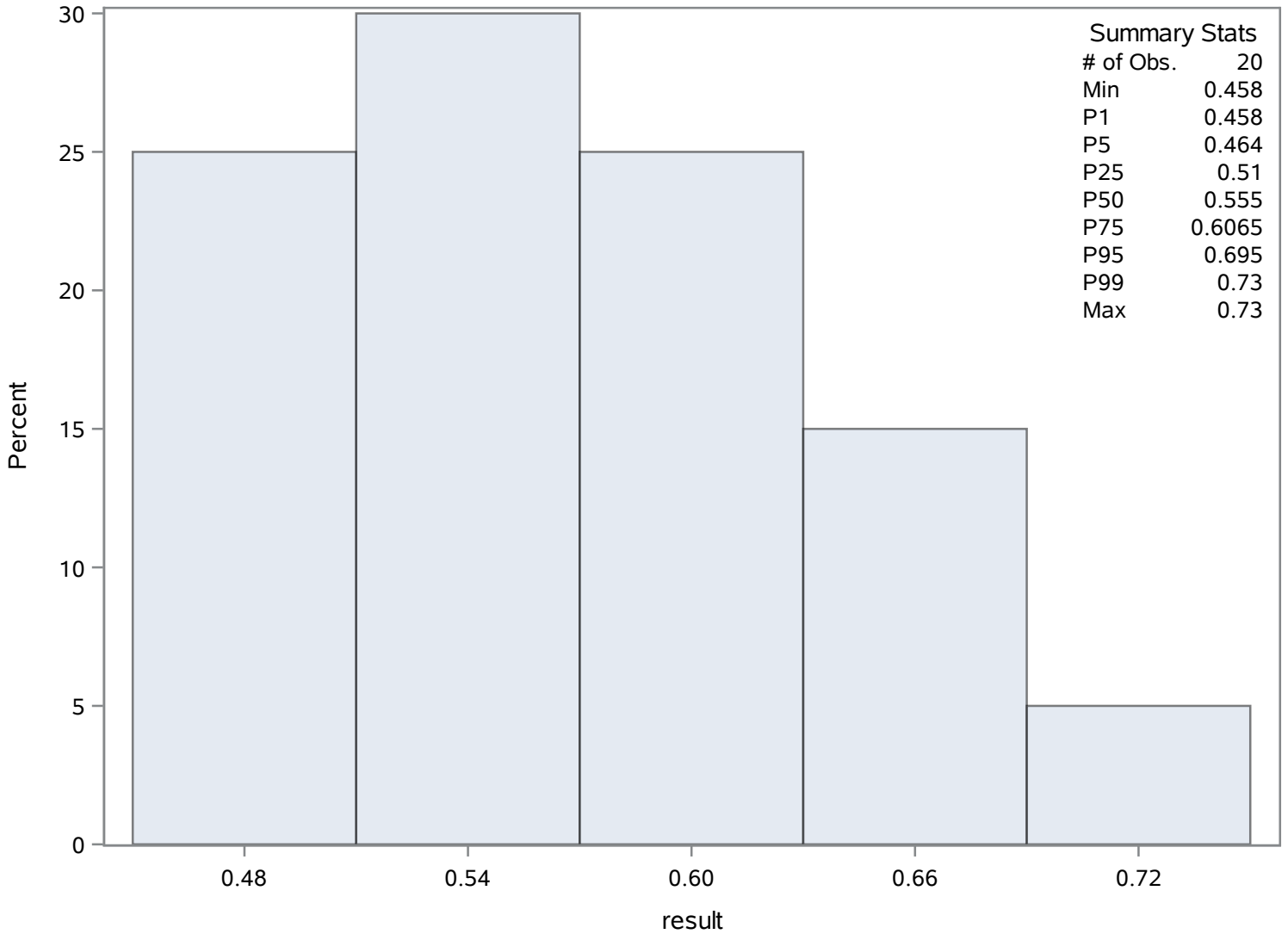
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.458	1598	0.623	1600
0.470	1599	0.650	1612
0.474	1597	0.660	1602
0.480	1607	0.660	1614
0.490	1596	0.730	1611

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	62	Sum Weights	62
Mean	0.58866129	Sum Observations	36.497
Std Deviation	0.24906902	Variance	0.06203538
Skewness	6.45283026	Kurtosis	47.5388899
Uncorrected SS	25.2685292	Corrected SS	3.78415811
Coeff Variation	42.3110927	Std Error Mean	0.0316318

Basic Statistical Measures			
Location		Variability	
Mean	0.588661	Std Deviation	0.24907
Median	0.570000	Variance	0.06204
Mode	0.520000	Range	2.10000
		Interquartile Range	0.08000

Note: The mode displayed is the smallest of 4 modes with a count of 5.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.6098	Pr > t 	<.0001
Sign	M	31	Pr >= M 	<.0001
Signed Rank	S	976.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.4000
99%	2.4000
95%	0.7200
90%	0.6600
75% Q3	0.6000
50% Median	0.5700
25% Q1	0.5200
10%	0.4629
5%	0.4300

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.3000
0% Min	0.3000

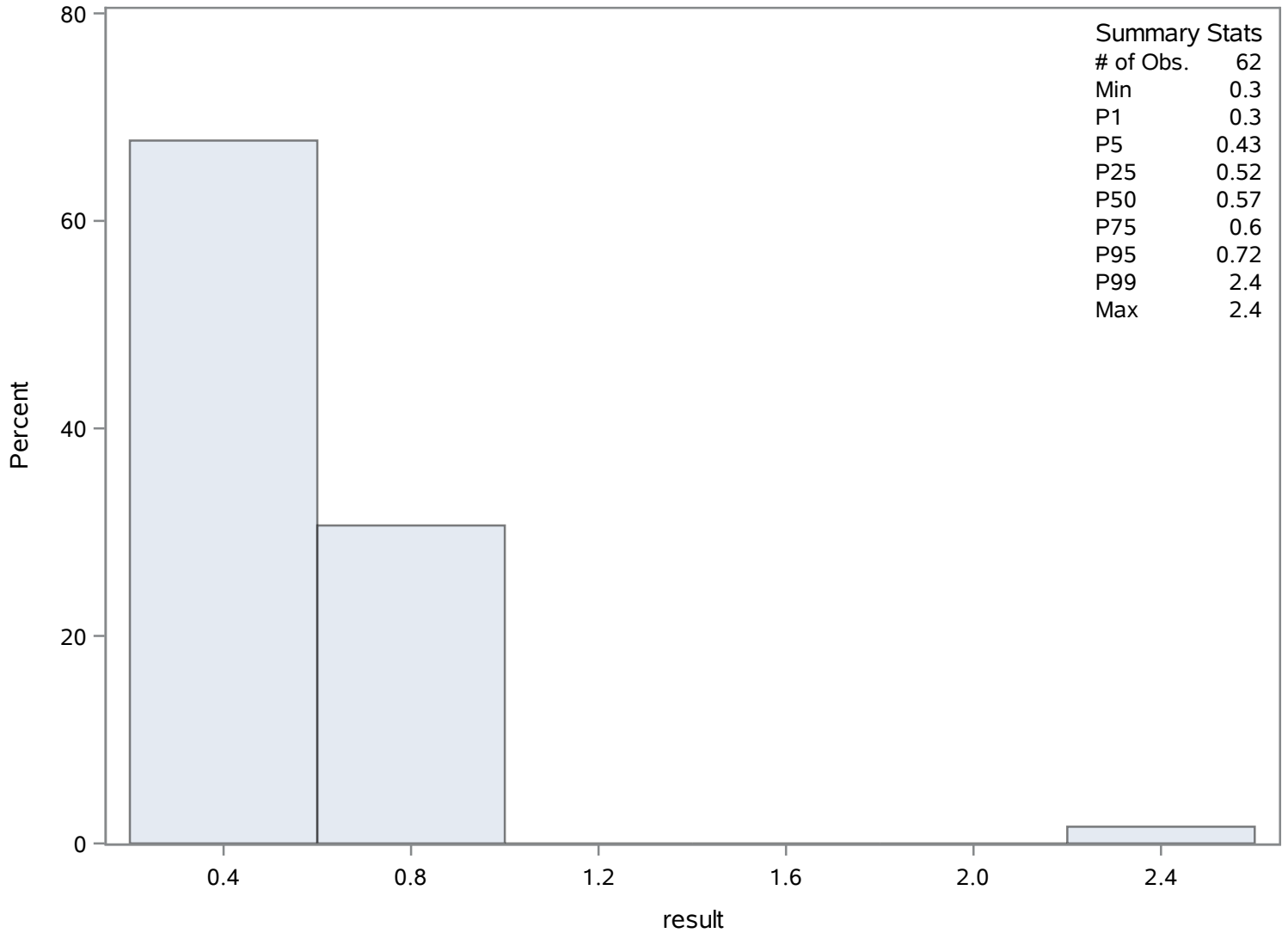
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.300	1626	0.693	1643
0.310	1617	0.720	1624
0.380	1625	0.720	1649
0.430	1616	0.810	1630
0.458	1639	2.400	1627

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	41	Sum Weights	41
Mean	0.24080488	Sum Observations	9.873
Std Deviation	0.31541633	Variance	0.09948746
Skewness	3.58315345	Kurtosis	15.7399727
Uncorrected SS	6.356965	Corrected SS	3.97949844
Coeff Variation	130.984194	Std Error Mean	0.04925975

Basic Statistical Measures			
Location		Variability	
Mean	0.240805	Std Deviation	0.31542
Median	0.140000	Variance	0.09949
Mode	0.060000	Range	1.80000
		Interquartile Range	0.14600

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.888471	Pr > t 	<.0001
Sign	M	20.5	Pr >= M 	<.0001
Signed Rank	S	430.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.820
99%	1.820
95%	0.741
90%	0.530
75% Q3	0.230
50% Median	0.140
25% Q1	0.084
10%	0.060
5%	0.030

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure
Variable: result

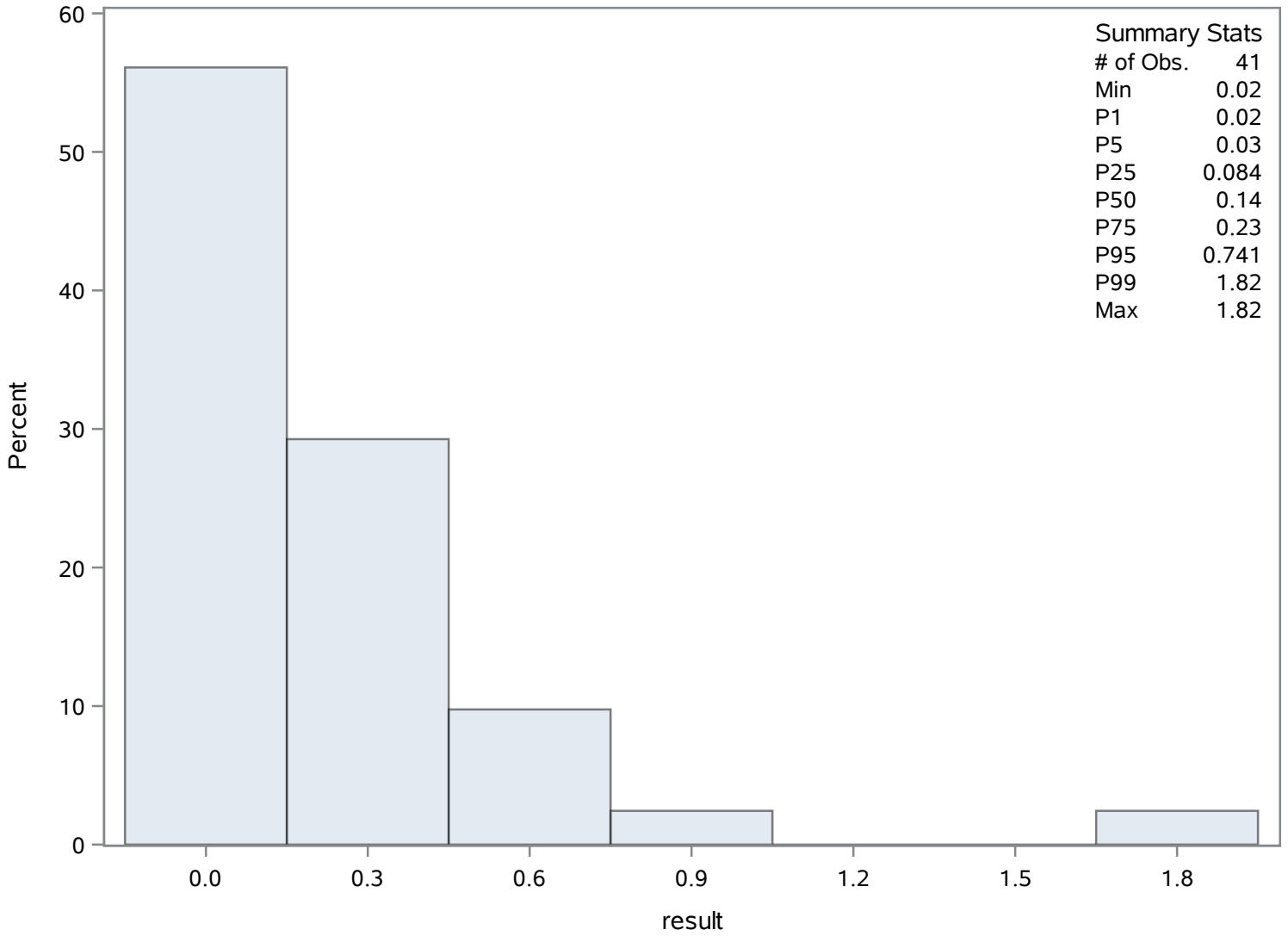
Quantiles (Definition 5)	
Level	Quantile
1%	0.020
0% Min	0.020

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.02	1688	0.530	1693
0.03	1695	0.560	1680
0.03	1689	0.741	1683
0.06	1716	0.860	1679
0.06	1715	1.820	1691

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	124	Sum Weights	124
Mean	0.01931371	Sum Observations	2.3949
Std Deviation	0.0141802	Variance	0.00020108
Skewness	5.26006446	Kurtosis	33.4360121
Uncorrected SS	0.07098701	Corrected SS	0.02473261
Coeff Variation	73.4203907	Std Error Mean	0.00127342

Basic Statistical Measures			
Location		Variability	
Mean	0.019314	Std Deviation	0.01418
Median	0.017000	Variance	0.0002011
Mode	0.016000	Range	0.11300
		Interquartile Range	0.00600

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.16681	Pr > t 	<.0001
Sign	M	62	Pr >= M 	<.0001
Signed Rank	S	3875	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.117
99%	0.114
95%	0.036
90%	0.024
75% Q3	0.020
50% Median	0.017
25% Q1	0.014
10%	0.010
5%	0.010
1%	0.006
0% Min	0.004

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Orthophosphate (P) (Dissolved) mg/L

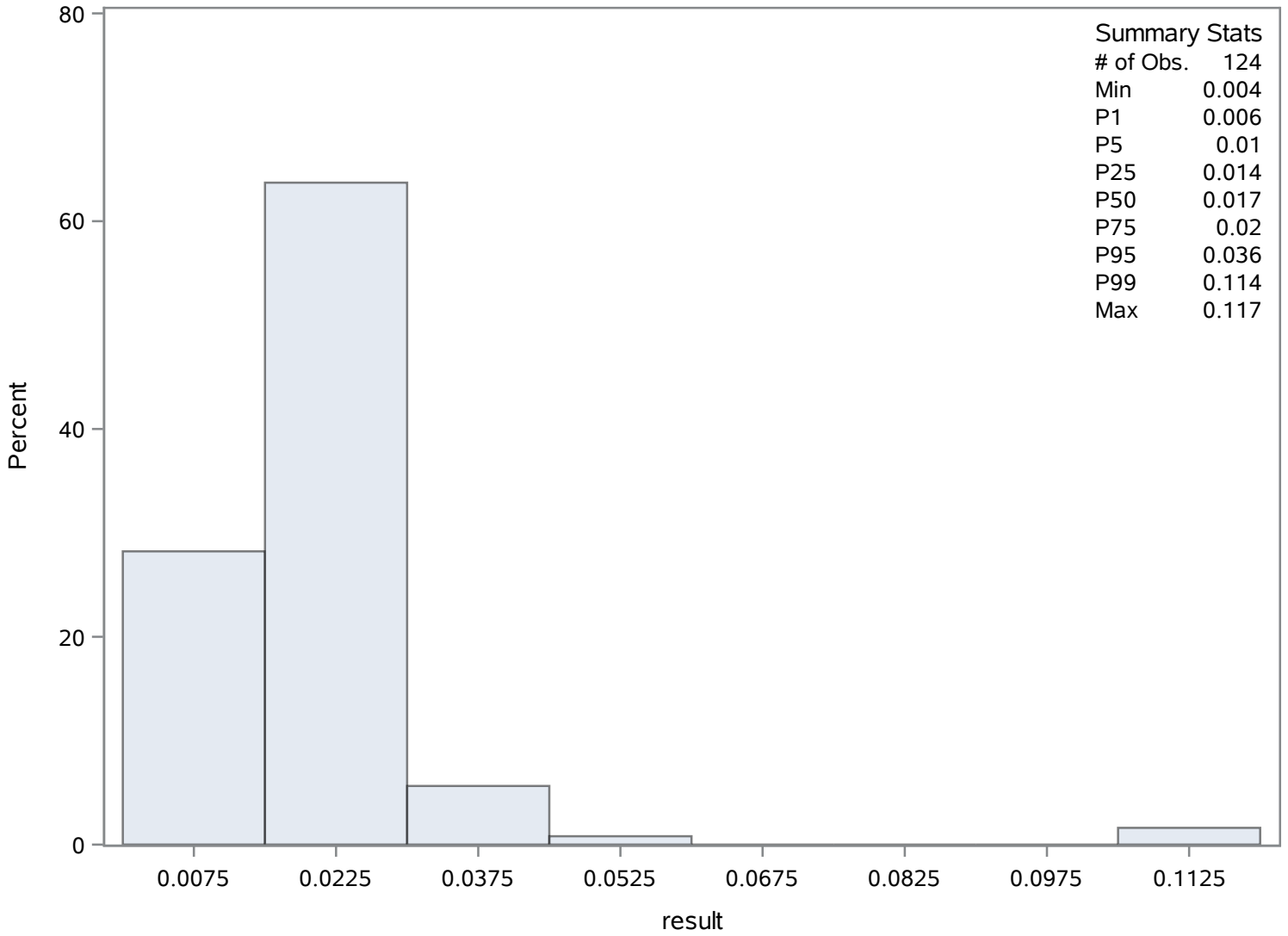
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	1737	0.037	1725
0.006	1729	0.043	1763
0.007	1787	0.045	1764
0.010	1785	0.114	1758
0.010	1781	0.117	1757

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	0.05360803	Sum Observations	7.3443
Std Deviation	0.15154739	Variance	0.02296661
Skewness	6.09989138	Kurtosis	37.6884139
Uncorrected SS	3.51717277	Corrected SS	3.12345932
Coeff Variation	282.695328	Std Error Mean	0.01294757

Basic Statistical Measures			
Location		Variability	
Mean	0.053608	Std Deviation	0.15155
Median	0.020000	Variance	0.02297
Mode	0.017000	Range	1.11500
		Interquartile Range	0.01500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.140394	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.1160
99%	0.9870
95%	0.1290
90%	0.0640
75% Q3	0.0320
50% Median	0.0200
25% Q1	0.0170
10%	0.0149
5%	0.0120
1%	0.0050
0% Min	0.0010

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Phosphorus- Total (Total) mg/L

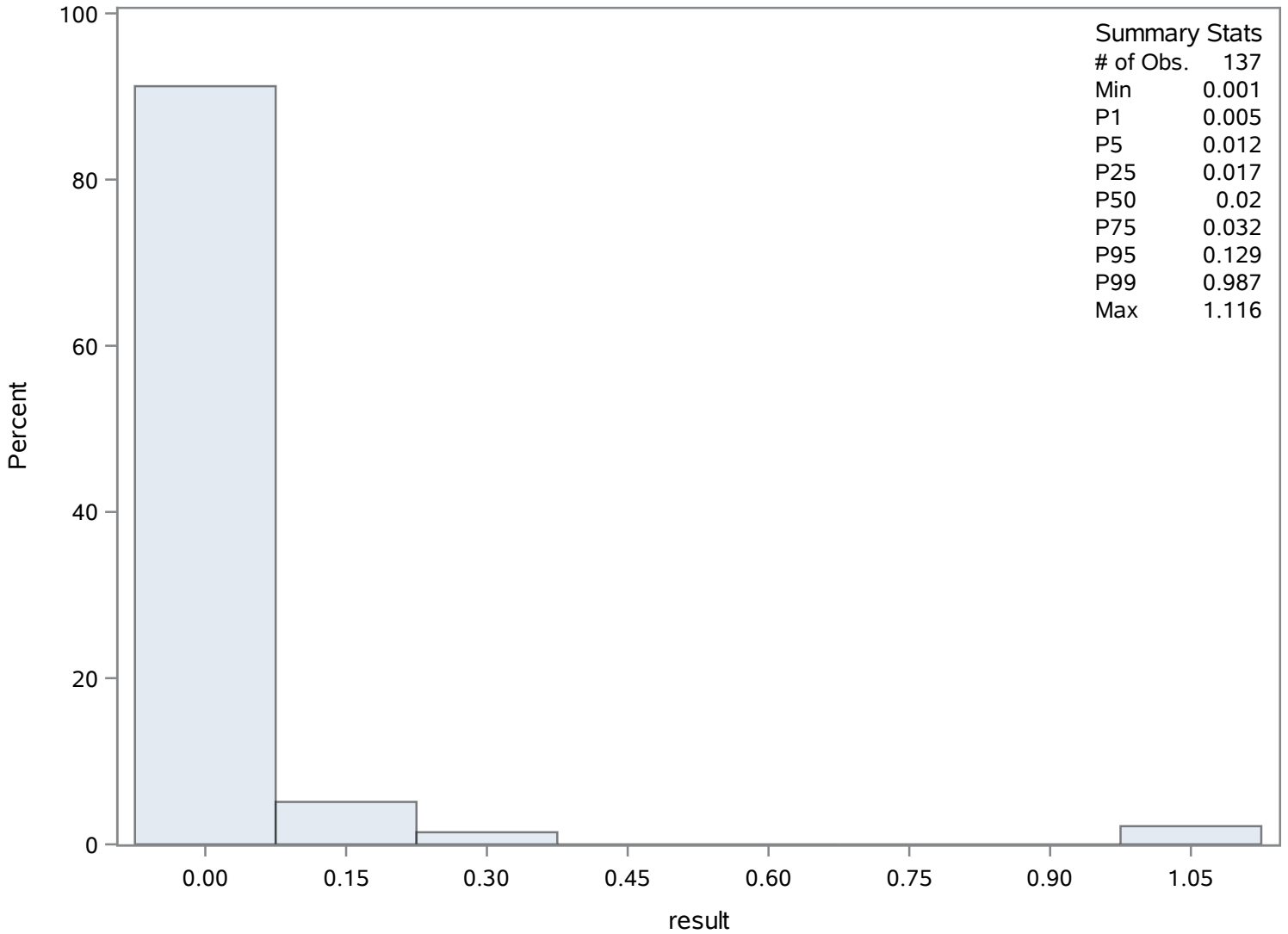
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	1870	0.237	1899
0.005	1949	0.304	1942
0.006	1861	0.987	1855
0.010	1869	0.987	1856
0.010	1862	1.116	1895

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	105	Sum Weights	105
Mean	15.0998095	Sum Observations	1585.48
Std Deviation	11.6280763	Variance	135.212158
Skewness	1.69853143	Kurtosis	4.7574406
Uncorrected SS	38002.5104	Corrected SS	14062.0644
Coeff Variation	77.008099	Std Error Mean	1.13478405

Basic Statistical Measures			
Location		Variability	
Mean	15.09981	Std Deviation	11.62808
Median	14.20000	Variance	135.21216
Mode	4.70000	Range	68.91000
		Interquartile Range	14.30000

Note: The mode displayed is the smallest of 11 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.30633	Pr > t 	<.0001
Sign	M	52.5	Pr >= M 	<.0001
Signed Rank	S	2782.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	70.80
99%	51.10
95%	35.50
90%	31.30
75% Q3	19.80
50% Median	14.20
25% Q1	5.50
10%	2.84
5%	2.45

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.90
0% Min	1.89

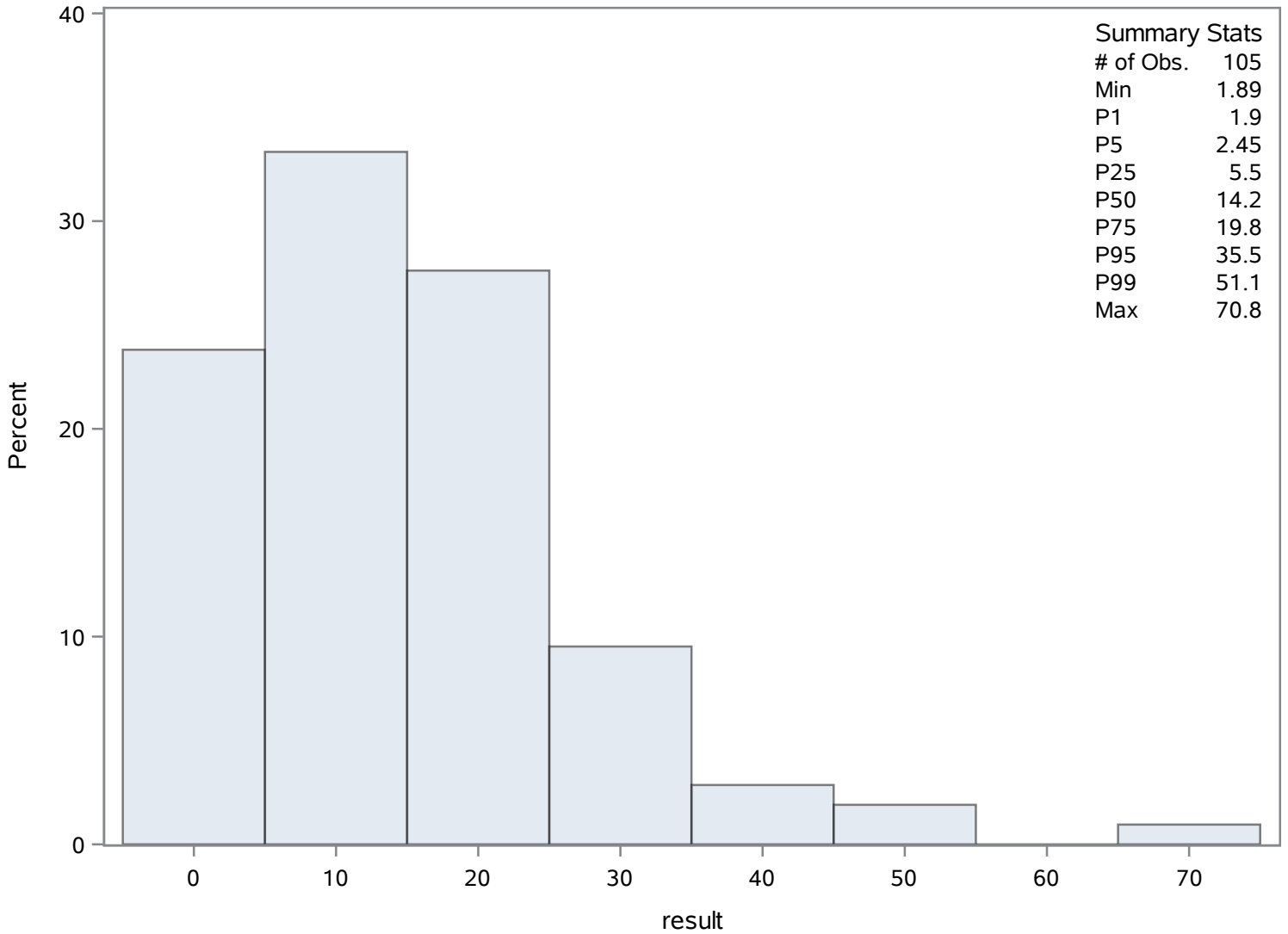
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.89	2038	37.2	2005
1.90	2039	38.7	2009
2.15	2023	45.6	2063
2.30	2036	51.1	2051
2.40	1998	70.8	2044

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	10.0123913	Sum Observations	460.57
Std Deviation	8.05309497	Variance	64.8523386
Skewness	1.62744044	Kurtosis	2.96525202
Uncorrected SS	7529.7623	Corrected SS	2918.35524
Coeff Variation	80.4312848	Std Error Mean	1.18736408

Basic Statistical Measures			
Location		Variability	
Mean	10.01239	Std Deviation	8.05309
Median	7.55000	Variance	64.85234
Mode	12.00000	Range	35.20000
		Interquartile Range	10.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.432453	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	37.20
99%	37.20
95%	23.30
90%	21.00
75% Q3	14.00
50% Median	7.55
25% Q1	3.70
10%	2.68
5%	2.59
1%	2.00
0% Min	2.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Total) mg/L

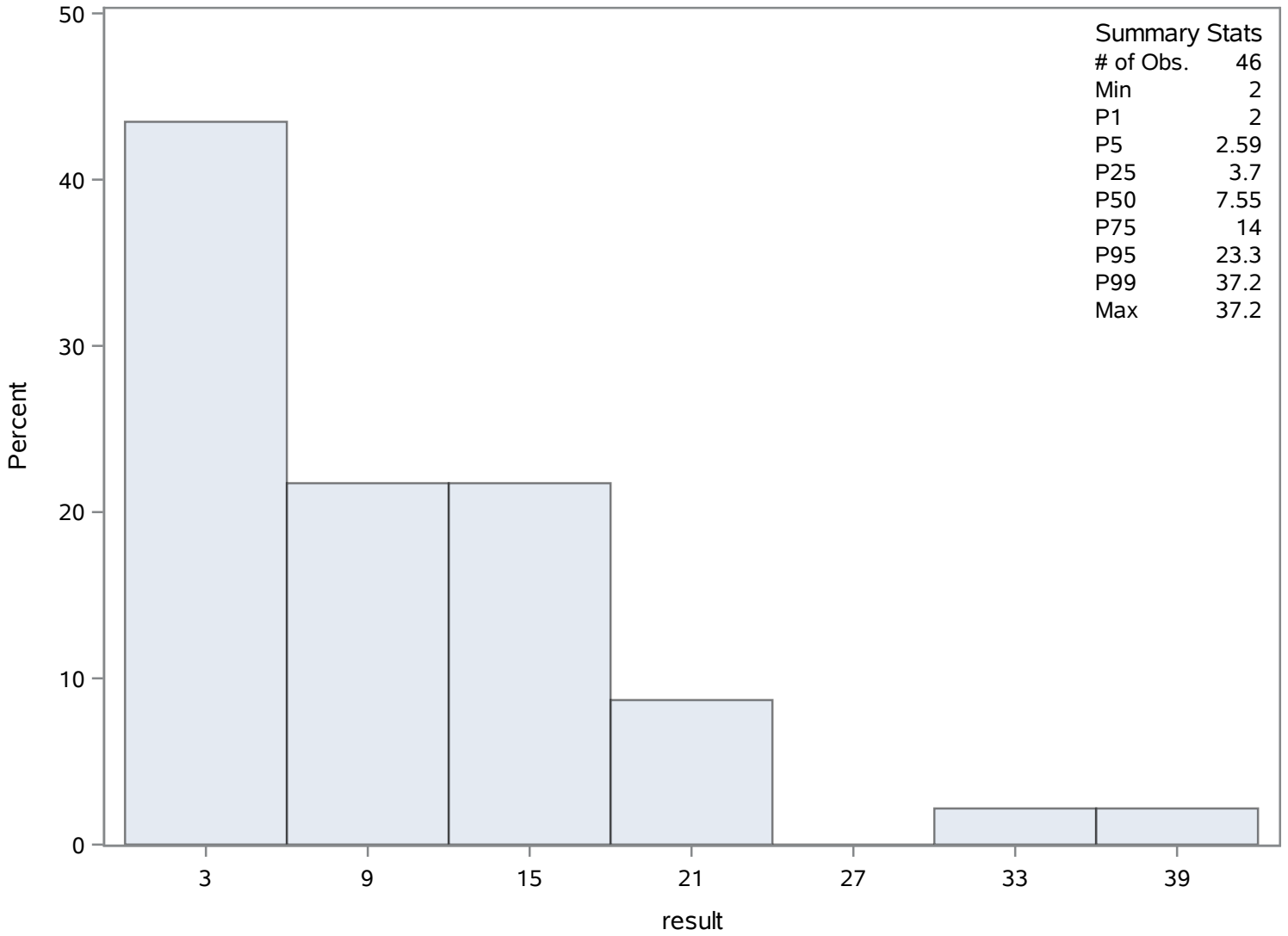
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.00	2130	21.0	2104
2.40	2110	22.1	2105
2.59	2108	23.3	2106
2.60	2128	34.5	2115
2.68	2107	37.2	2116

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Purge Volume (Total) Gallons

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	7.04125	Sum Observations	168.99
Std Deviation	12.5265097	Variance	156.913446
Skewness	4.14515762	Kurtosis	18.5448192
Uncorrected SS	4798.9101	Corrected SS	3609.00926
Coeff Variation	177.901789	Std Error Mean	2.55696309

Basic Statistical Measures			
Location		Variability	
Mean	7.041250	Std Deviation	12.52651
Median	3.750000	Variance	156.91345
Mode	3.750000	Range	62.20000
		Interquartile Range	2.36000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	2.753755	Pr > t 	0.0113
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	62.65
99%	62.65
95%	16.85
90%	15.00
75% Q3	4.72
50% Median	3.75
25% Q1	2.36
10%	1.28
5%	1.01
1%	0.45
0% Min	0.45

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Purge Volume (Total) Gallons

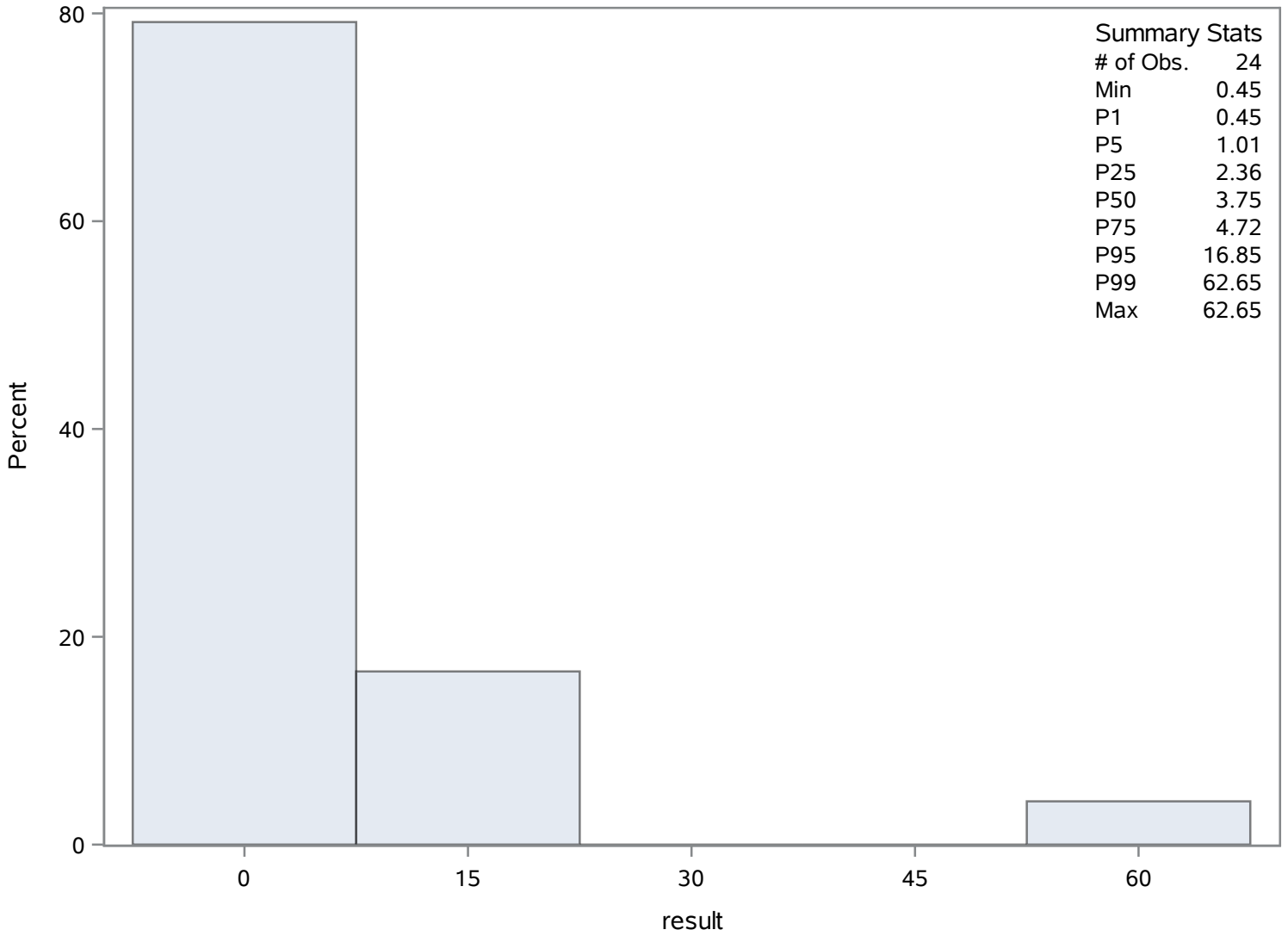
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.45	2145	8.27	2132
1.01	2133	10.15	2141
1.28	2131	15.00	2140
1.55	2147	16.85	2136
1.97	2153	62.65	2152

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Purge Volume (Total) Gallons

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	121	Sum Weights	121
Mean	1394.79339	Sum Observations	168770
Std Deviation	981.249347	Variance	962850.282
Skewness	1.78021595	Kurtosis	4.86553347
Uncorrected SS	350941314	Corrected SS	115542034
Coeff Variation	70.3508746	Std Error Mean	89.2044861

Basic Statistical Measures			
Location		Variability	
Mean	1394.793	Std Deviation	981.24935
Median	1280.000	Variance	962850
Mode	381.000	Range	5867
		Interquartile Range	1048

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.63591	Pr > t 	<.0001
Sign	M	60.5	Pr >= M 	<.0001
Signed Rank	S	3690.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6160
99%	4770
95%	3170
90%	2758
75% Q3	1660
50% Median	1280
25% Q1	612
10%	424
5%	381
1%	310
0% Min	293

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Filterable (TDS) (Dissolved) mg/L

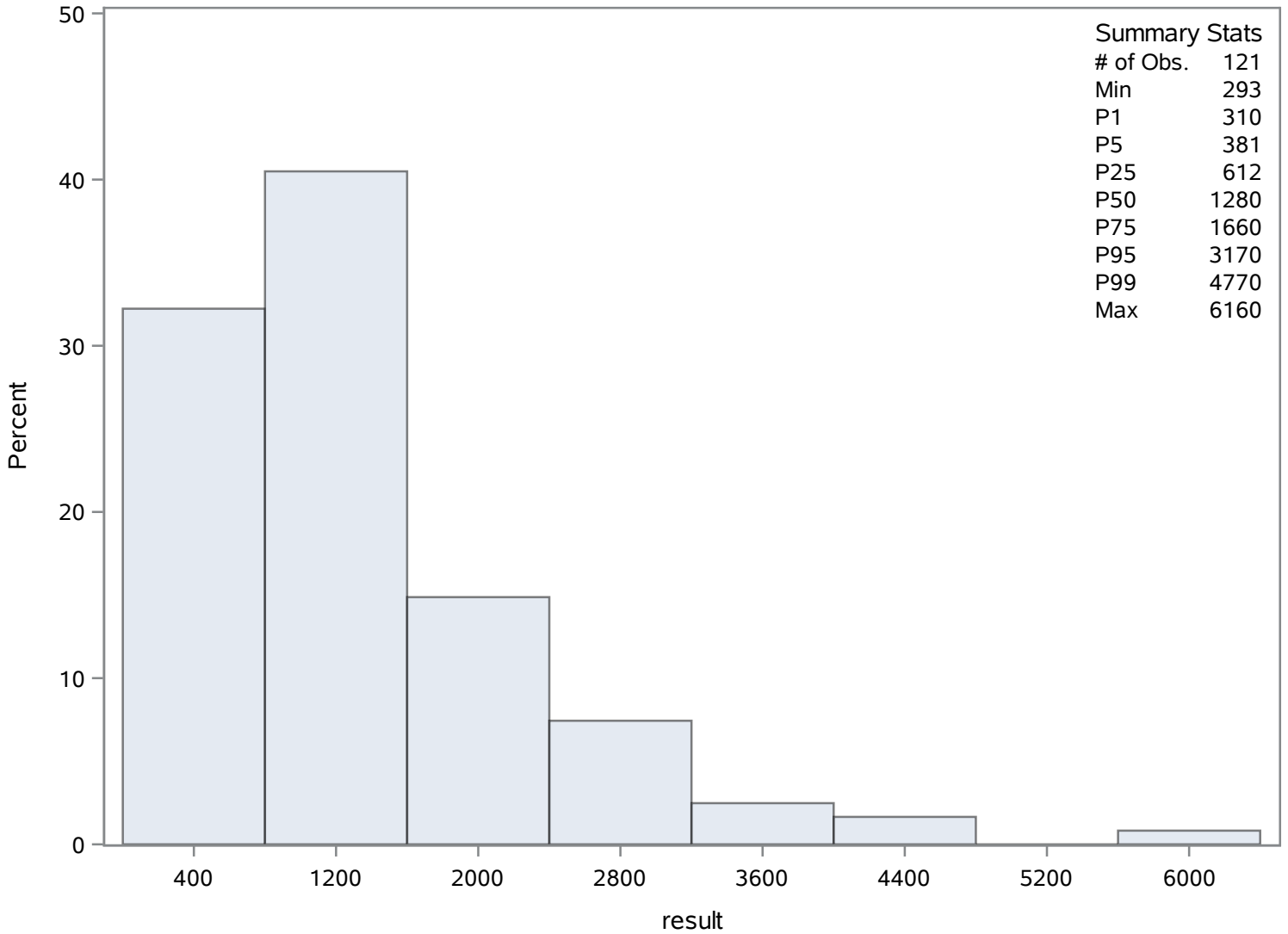
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
293	2190	3396	2198
310	2233	3560	2203
331	2232	4240	2254
348	2216	4770	2242
380	2229	6160	2235

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	31	Sum Weights	31
Mean	63.9844968	Sum Observations	1983.5194
Std Deviation	236.530644	Variance	55946.7455
Skewness	3.72785661	Kurtosis	12.7155672
Uncorrected SS	1805316.86	Corrected SS	1678402.36
Coeff Variation	369.668679	Std Error Mean	42.4821577

Basic Statistical Measures			
Location		Variability	
Mean	63.98450	Std Deviation	236.53064
Median	4.00000	Variance	55947
Mode	4.00000	Range	949.98000
		Interquartile Range	3.34000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	1.50615	Pr > t 	0.1425
Sign	M	15.5	Pr >= M 	<.0001
Signed Rank	S	248	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	950.0000
99%	950.0000
95%	950.0000
90%	4.0000
75% Q3	4.0000
50% Median	4.0000
25% Q1	0.6600
10%	0.3939
5%	0.1300
1%	0.0200
0% Min	0.0200

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Nonfilterable (TSS) (Total) mg/L

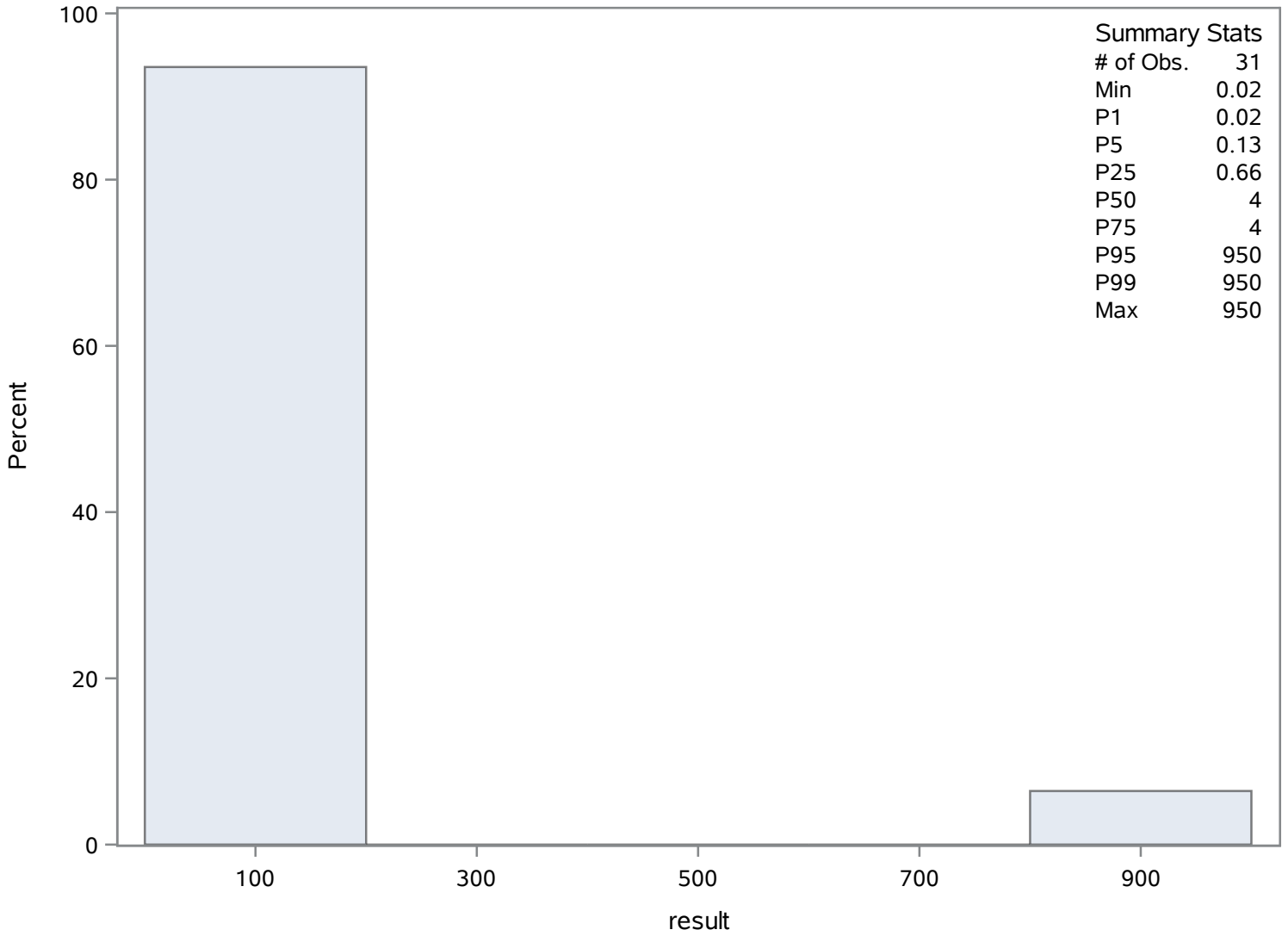
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0200	2285	4	2304
0.1300	2284	4	2305
0.2100	2280	4	2306
0.3939	2281	950	2278
0.4286	2283	950	2279

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	63	Sum Weights	63
Mean	9.01409365	Sum Observations	567.8879
Std Deviation	0.18693368	Variance	0.0349442
Skewness	-0.2642518	Kurtosis	-0.1019282
Uncorrected SS	5121.16125	Corrected SS	2.16654054
Coeff Variation	2.07379345	Std Error Mean	0.02355143

Basic Statistical Measures			
Location		Variability	
Mean	9.014094	Std Deviation	0.18693
Median	9.000000	Variance	0.03494
Mode	9.100000	Range	0.90000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	382.7408	Pr > t 	<.0001
Sign	M	31.5	Pr >= M 	<.0001
Signed Rank	S	1008	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.4
99%	9.4
95%	9.3
90%	9.2
75% Q3	9.1
50% Median	9.0
25% Q1	8.9
10%	8.8
5%	8.7
1%	8.5
0% Min	8.5

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Silica- Dissolved (Dissolved) mg/L

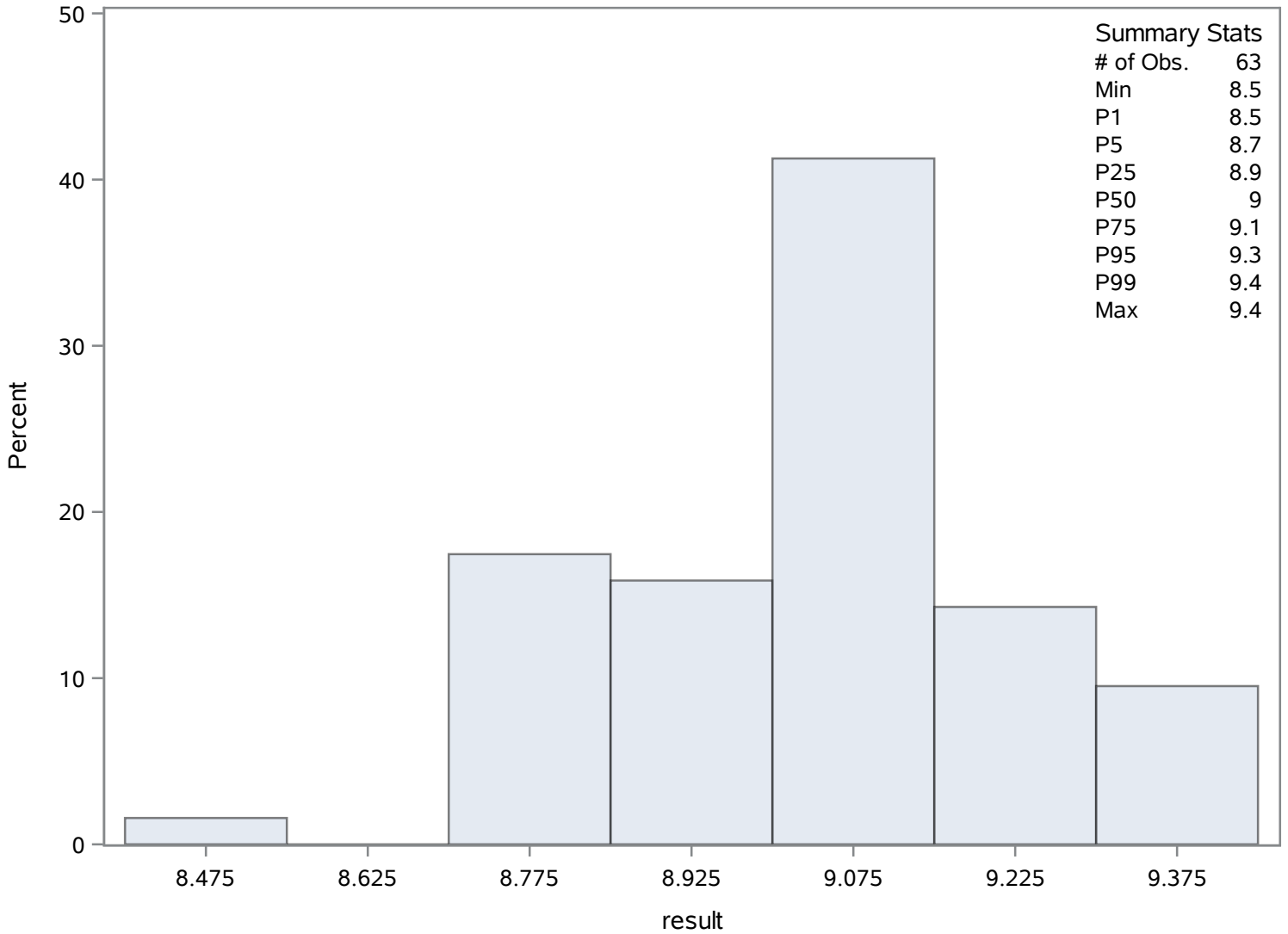
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.5	2329	9.3000	2344
8.7	2360	9.3000	2365
8.7	2359	9.3000	2366
8.7	2358	9.3758	2325
8.7	2350	9.4000	2341

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	106	Sum Weights	106
Mean	396.10566	Sum Observations	41987.2
Std Deviation	302.648365	Variance	91596.0327
Skewness	1.59257394	Kurtosis	3.72596385
Uncorrected SS	26248951	Corrected SS	9617583.44
Coeff Variation	76.4059682	Std Error Mean	29.3958078

Basic Statistical Measures			
Location		Variability	
Mean	396.1057	Std Deviation	302.64836
Median	355.1000	Variance	91596
Mode	93.0000	Range	1692
		Interquartile Range	349.00000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.4749	Pr > t 	<.0001
Sign	M	53	Pr >= M 	<.0001
Signed Rank	S	2835.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1740.0
99%	1370.0
95%	962.0
90%	844.0
75% Q3	495.0
50% Median	355.1
25% Q1	146.0
10%	78.0
5%	63.4

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	48.0
0% Min	47.7

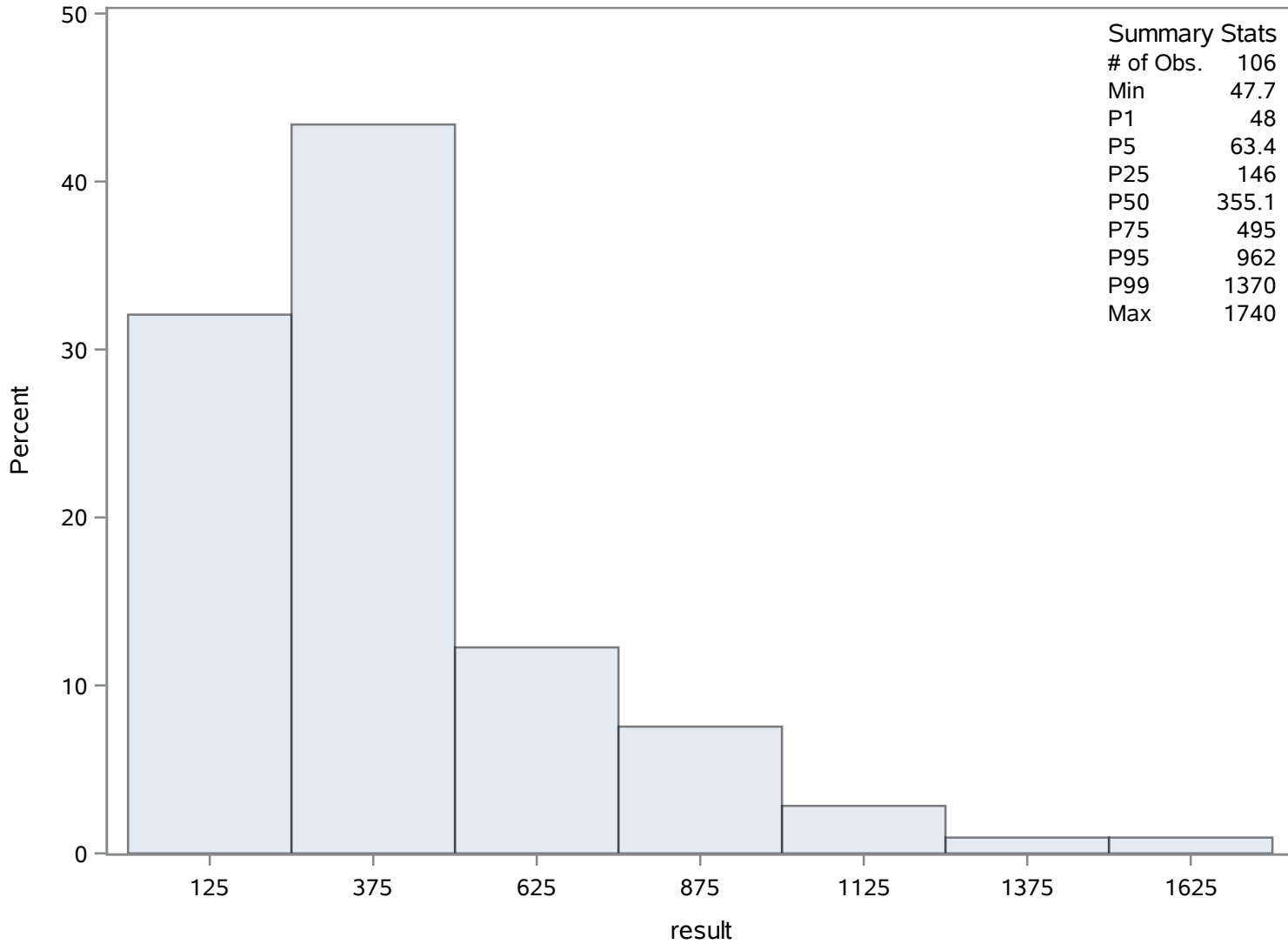
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
47.7	2388	1010	2400
48.0	2429	1030	2395
50.9	2430	1240	2454
51.7	2414	1370	2442
59.2	2427	1740	2435

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	43	Sum Weights	43
Mean	236.237209	Sum Observations	10158.2
Std Deviation	170.436856	Variance	29048.7219
Skewness	1.19256091	Kurtosis	1.10275931
Uncorrected SS	3619791.14	Corrected SS	1220046.32
Coeff Variation	72.1464906	Std Error Mean	25.9913769

Basic Statistical Measures			
Location		Variability	
Mean	236.2372	Std Deviation	170.43686
Median	171.0000	Variance	29049
Mode	.	Range	720.30000
		Interquartile Range	249.70000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.089061	Pr > t 	<.0001
Sign	M	21.5	Pr >= M 	<.0001
Signed Rank	S	473	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	768.0
99%	768.0
95%	549.0
90%	472.0
75% Q3	344.0
50% Median	171.0
25% Q1	94.3
10%	74.1
5%	68.1
1%	47.7
0% Min	47.7

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

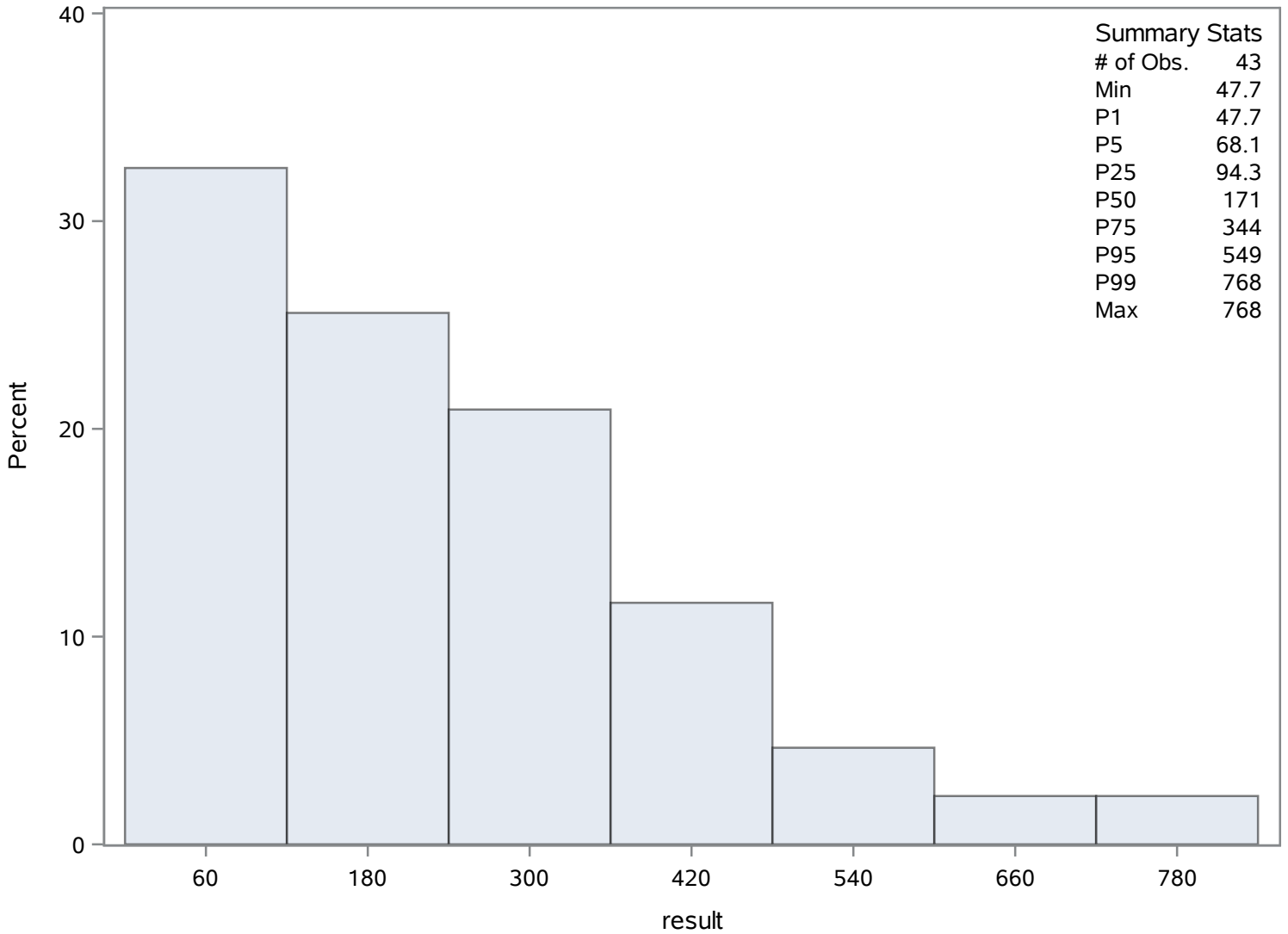
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
47.7	2501	472	2478
51.0	2518	501	2506
68.1	2516	549	2495
72.6	2499	621	2497
74.1	2498	768	2496

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	189	Sum Weights	189
Mean	2820.74339	Sum Observations	533120.5
Std Deviation	1875.87589	Variance	3518910.37
Skewness	1.47162218	Kurtosis	3.19379923
Uncorrected SS	2165351274	Corrected SS	661555150
Coeff Variation	66.5028908	Std Error Mean	136.449893

Basic Statistical Measures			
Location		Variability	
Mean	2820.743	Std Deviation	1876
Median	2548.900	Variance	3518910
Mode	593.000	Range	10311
		Interquartile Range	2245

Note: The mode displayed is the smallest of 11 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.67238	Pr > t 	<.0001
Sign	M	94.5	Pr >= M 	<.0001
Signed Rank	S	8977.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10863.0
99%	10800.0
95%	6080.0
90%	5580.0
75% Q3	3618.0
50% Median	2548.9
25% Q1	1373.0
10%	774.0
5%	706.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

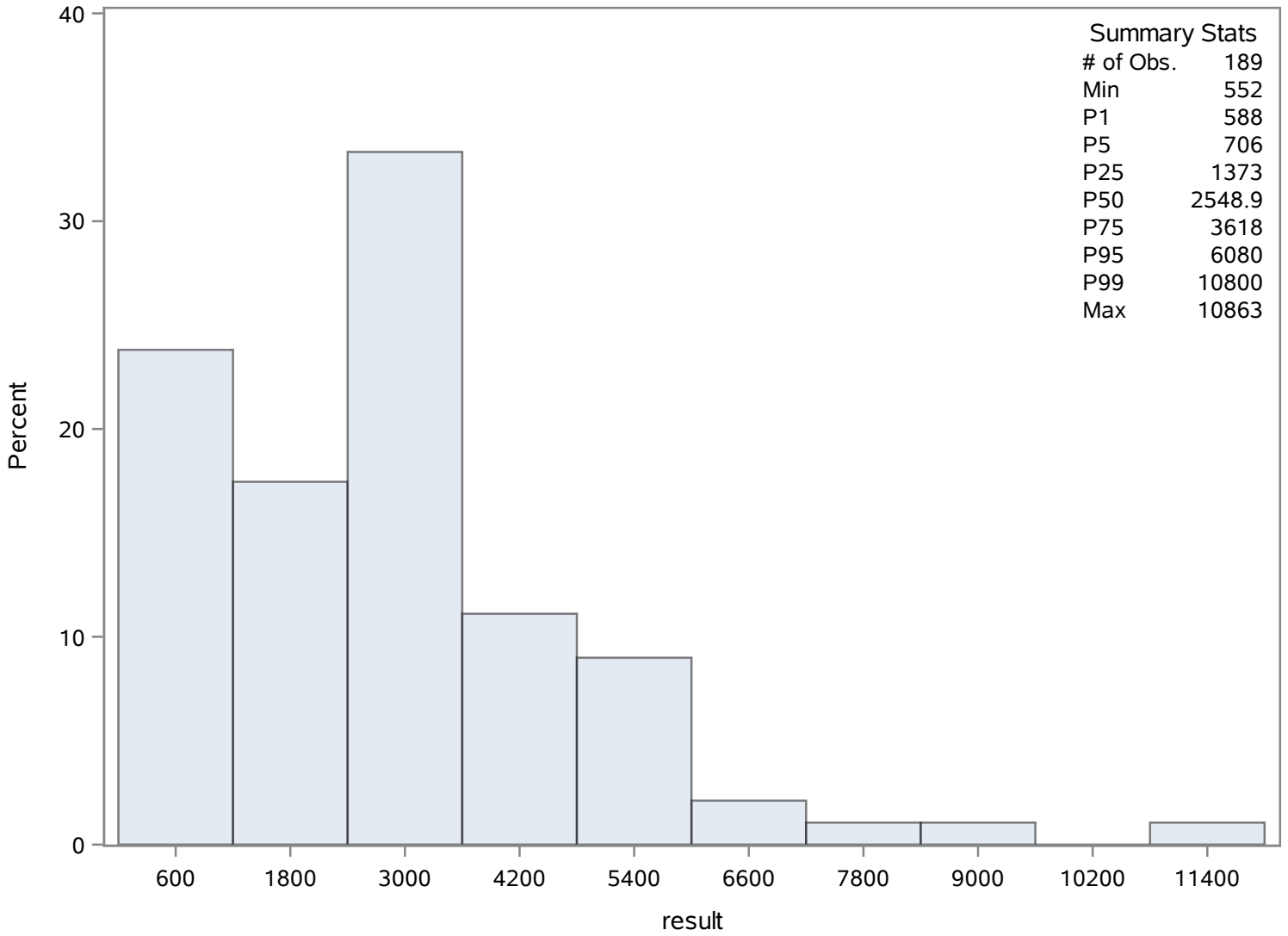
Quantiles (Definition 5)	
Level	Quantile
1%	588.0
0% Min	552.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
552	2542	8047.6	2664
588	2543	8557.0	2639
590	2616	8610.0	2640
593	2613	10800.0	2625
593	2612	10863.0	2626

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	0.6068913	Sum Observations	27.917
Std Deviation	0.30062847	Variance	0.09037748
Skewness	1.51771878	Kurtosis	2.84111546
Uncorrected SS	21.009571	Corrected SS	4.06698646
Coeff Variation	49.5358012	Std Error Mean	0.04432525

Basic Statistical Measures			
Location		Variability	
Mean	0.606891	Std Deviation	0.30063
Median	0.520000	Variance	0.09038
Mode	0.330000	Range	1.47000
		Interquartile Range	0.29000

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.69177	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.660
99%	1.660
95%	1.210
90%	0.970
75% Q3	0.740
50% Median	0.520
25% Q1	0.450
10%	0.297
5%	0.260

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.190
0% Min	0.190

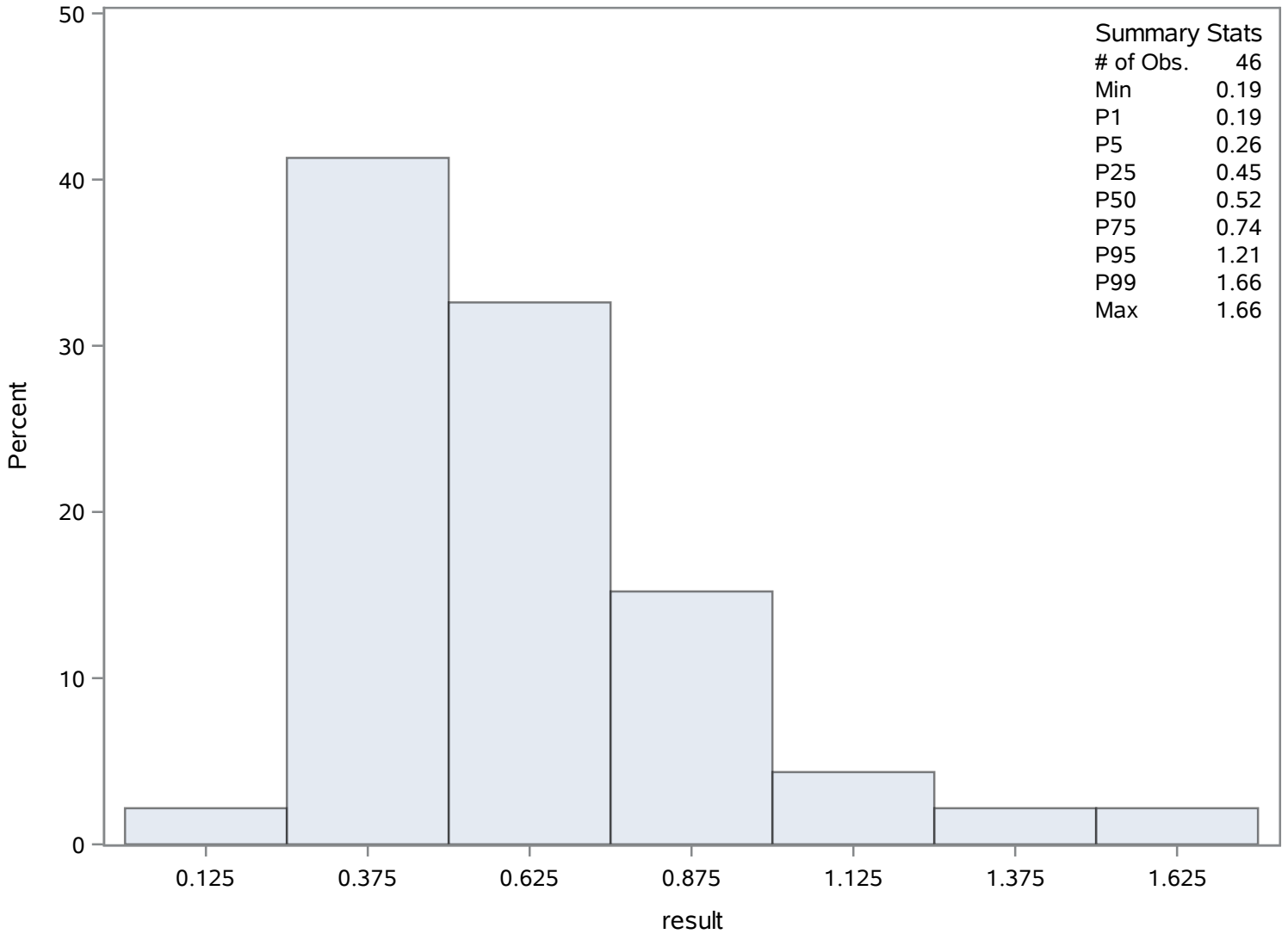
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.190	2734	0.97	2721
0.250	2708	1.01	2753
0.260	2746	1.21	2732
0.280	2728	1.40	2720
0.297	2735	1.66	2713

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	43	Sum Weights	43
Mean	416.023256	Sum Observations	17889
Std Deviation	321.756895	Variance	103527.499
Skewness	1.07867196	Kurtosis	0.92069404
Uncorrected SS	11790395	Corrected SS	4348154.98
Coeff Variation	77.3410838	Std Error Mean	49.0674665

Basic Statistical Measures			
Location		Variability	
Mean	416.0233	Std Deviation	321.75689
Median	300.0000	Variance	103527
Mode	50.0000	Range	1350
		Interquartile Range	360.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.478597	Pr > t 	<.0001
Sign	M	21.5	Pr >= M 	<.0001
Signed Rank	S	473	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1400
99%	1400
95%	1020
90%	930
75% Q3	570
50% Median	300
25% Q1	210
10%	50
5%	50
1%	50
0% Min	50

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

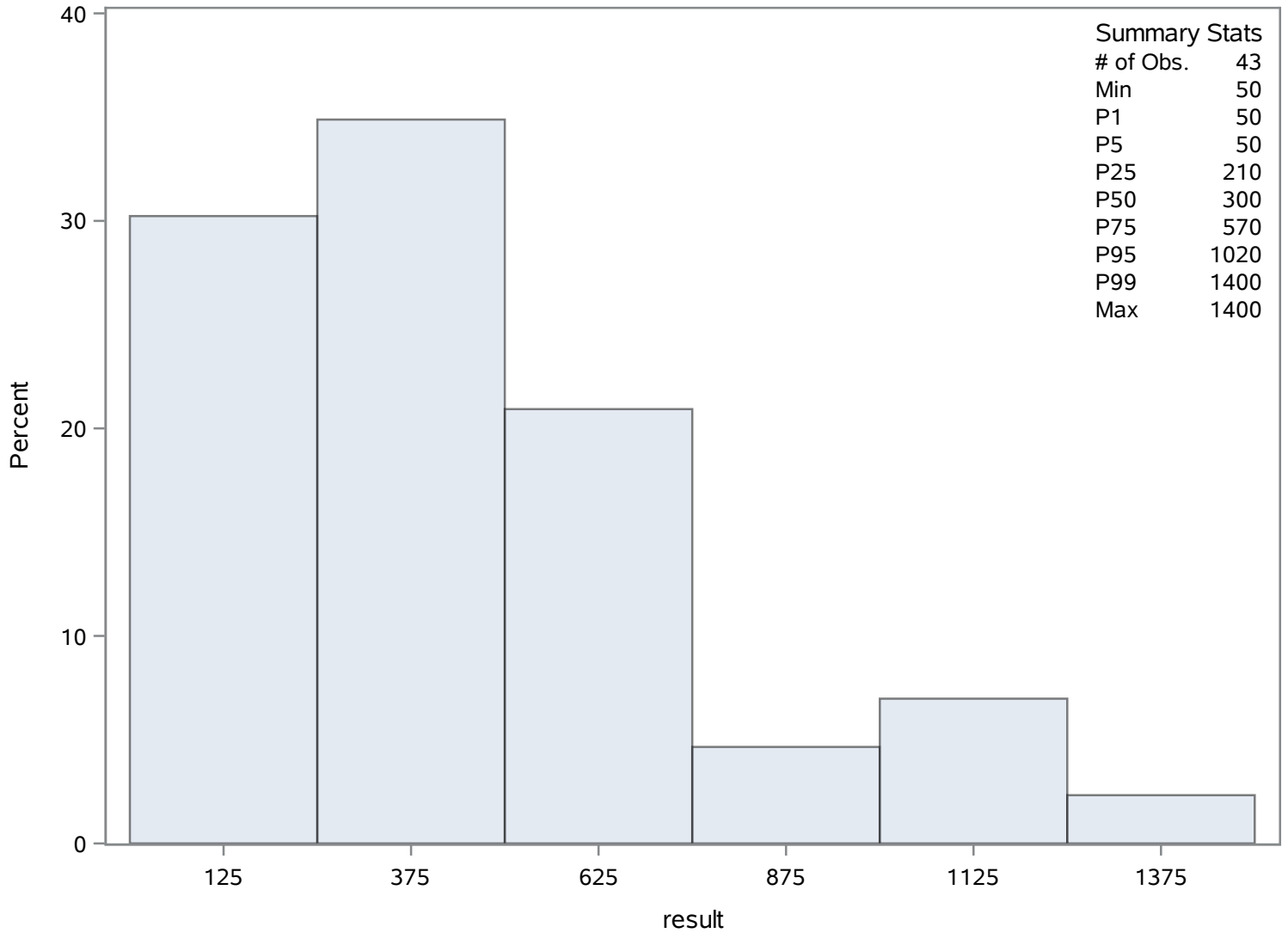
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
50	2766	930	2774
50	2765	1020	2773
50	2764	1020	2775
50	2763	1030	2771
50	2762	1400	2759

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	290.904762	Sum Observations	6109
Std Deviation	317.004086	Variance	100491.59
Skewness	2.4520519	Kurtosis	7.2445303
Uncorrected SS	3786969	Corrected SS	2009831.81
Coeff Variation	108.971776	Std Error Mean	69.1759628

Basic Statistical Measures			
Location		Variability	
Mean	290.9048	Std Deviation	317.00409
Median	231.0000	Variance	100492
Mode	50.0000	Range	1350
		Interquartile Range	250.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.205287	Pr > t 	0.0004
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1400
99%	1400
95%	800
90%	531
75% Q3	300
50% Median	231
25% Q1	50
10%	50
5%	50
1%	50
0% Min	50

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Total) ug/L

The UNIVARIATE Procedure
Variable: result

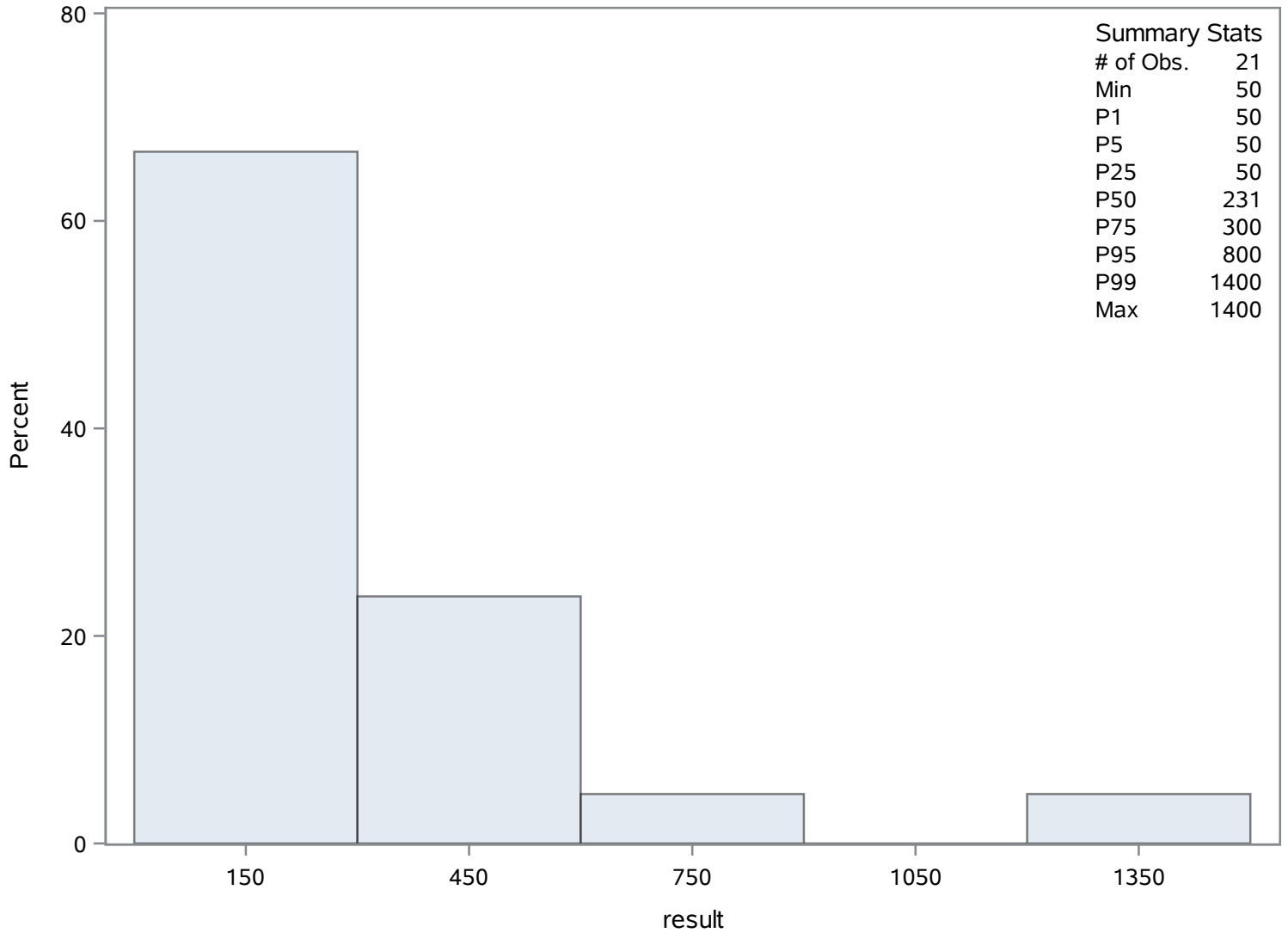
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
50	2808	409	2812
50	2807	409	2813
50	2806	531	2809
50	2805	800	2800
50	2804	1400	2801

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Strontium (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	123	Sum Weights	123
Mean	103.235854	Sum Observations	12698.01
Std Deviation	76.3790835	Variance	5833.76439
Skewness	1.45704326	Kurtosis	2.93281716
Uncorrected SS	2022609.16	Corrected SS	711719.256
Coeff Variation	73.985036	Std Error Mean	6.88687003

Basic Statistical Measures			
Location		Variability	
Mean	103.2359	Std Deviation	76.37908
Median	91.9600	Variance	5834
Mode	31.0000	Range	424.20000
		Interquartile Range	100.00000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.99024	Pr > t 	<.0001
Sign	M	61.5	Pr >= M 	<.0001
Signed Rank	S	3813	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	440.00
99%	341.00
95%	250.00
90%	205.00
75% Q3	140.00
50% Median	91.96
25% Q1	40.00
10%	26.00
5%	23.00

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	17.60
0% Min	15.80

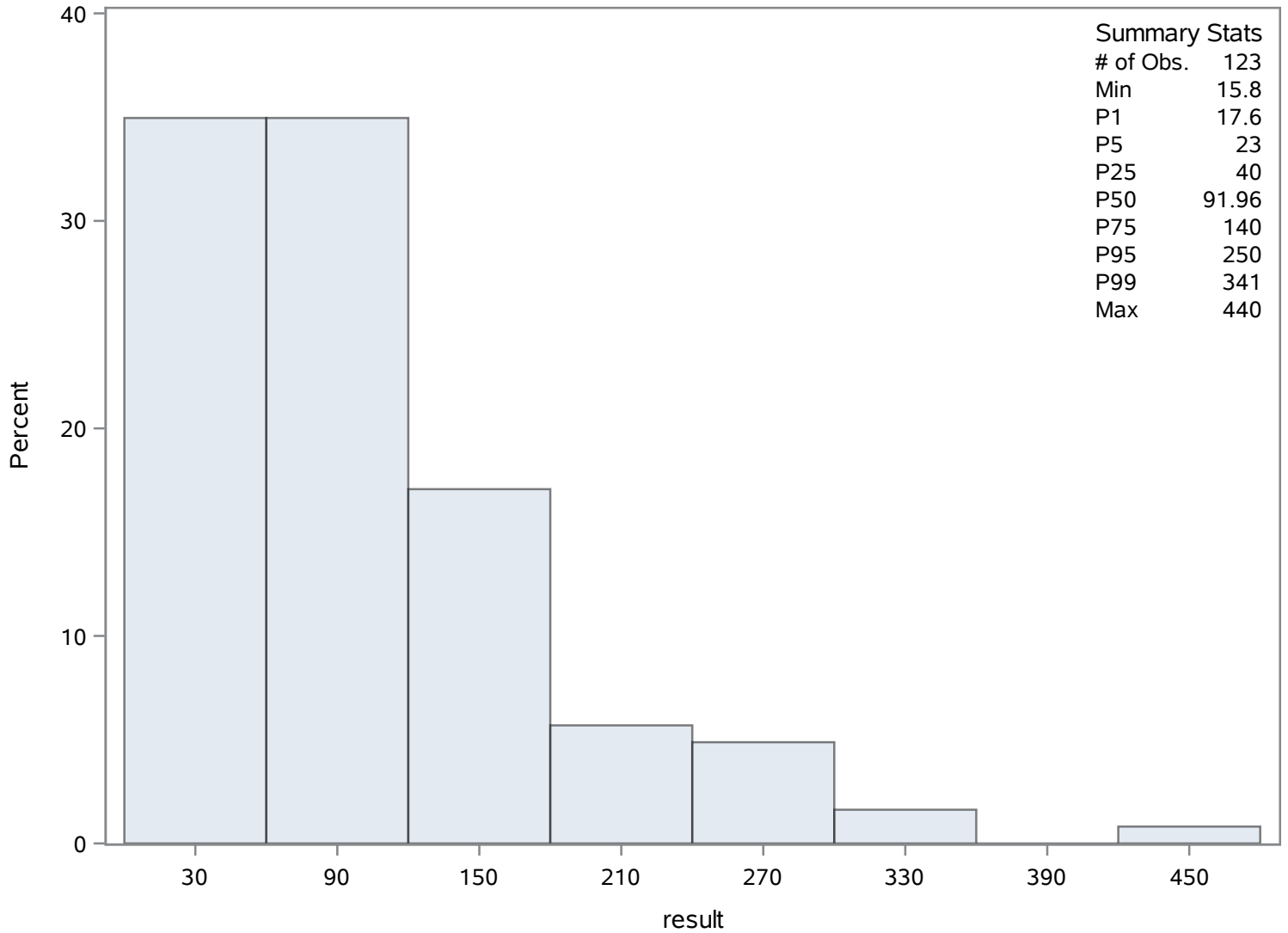
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
15.8	2855	261	2862
17.6	2894	278	2901
18.0	2895	318	2919
18.3	2879	341	2907
20.1	2921	440	2900

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka Main Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	95	Sum Weights	95
Mean	23.2641053	Sum Observations	2210.09
Std Deviation	0.48443978	Variance	0.2346819
Skewness	-1.1042253	Kurtosis	5.2479883
Uncorrected SS	51437.8265	Corrected SS	22.0600989
Coeff Variation	2.08234866	Std Error Mean	0.04970247

Basic Statistical Measures			
Location		Variability	
Mean	23.26411	Std Deviation	0.48444
Median	23.23000	Variance	0.23468
Mode	23.20000	Range	3.19000
		Interquartile Range	0.35000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	468.0674	Pr > t 	<.0001
Sign	M	47.5	Pr >= M 	<.0001
Signed Rank	S	2280	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.40
99%	24.40
95%	24.00
90%	23.80
75% Q3	23.48
50% Median	23.23
25% Q1	23.13
10%	22.82
5%	22.60
1%	21.21
0% Min	21.21

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Temperature (Total) Deg. C

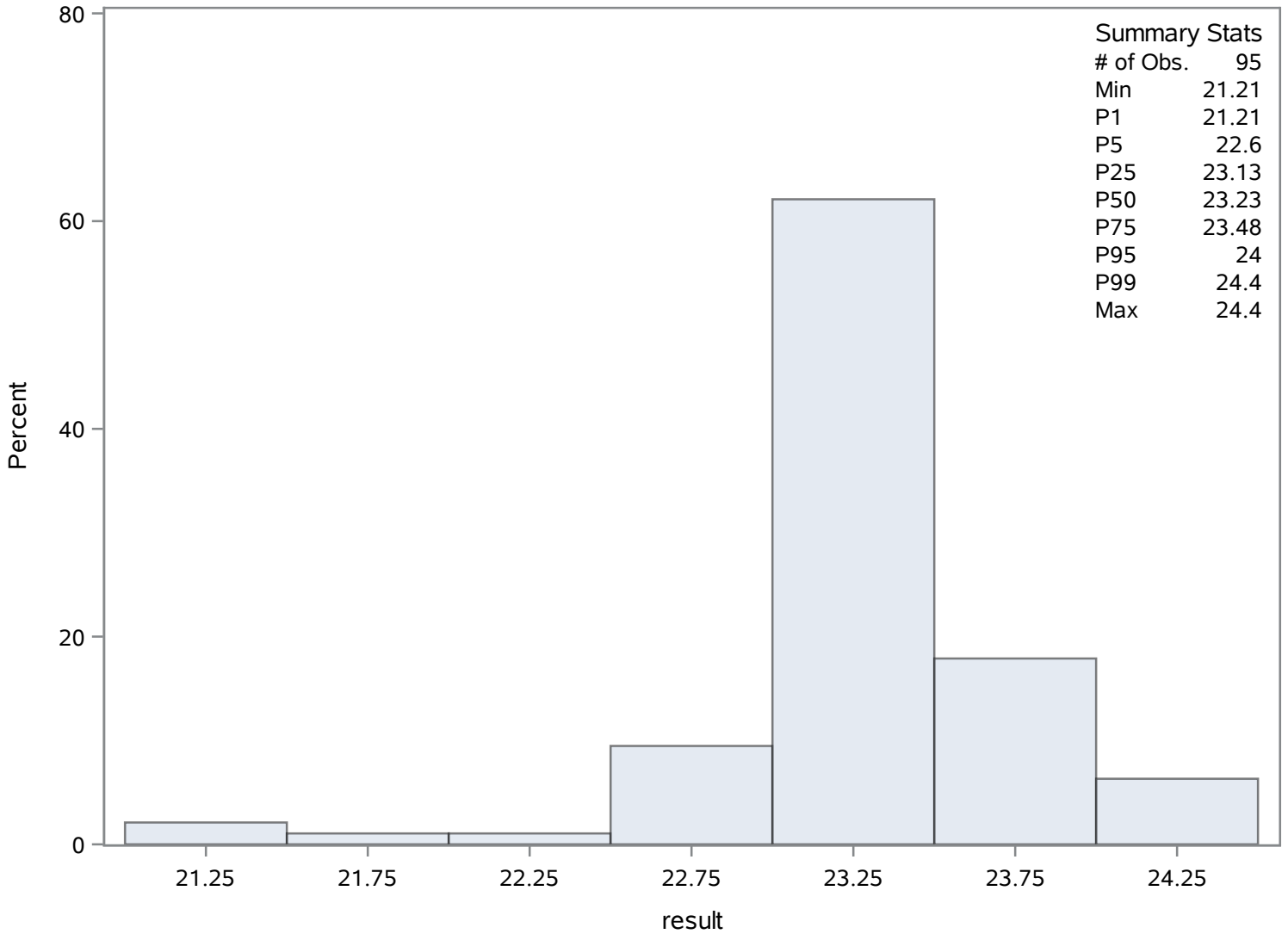
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21.21	2985	24.0	2962
21.44	2986	24.2	2950
21.91	3004	24.4	2946
22.38	2981	24.4	2954
22.60	2944	24.4	2966

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Turbidity (Total) FTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	13	Sum Weights	13
Mean	0.31923077	Sum Observations	4.15
Std Deviation	0.28176413	Variance	0.07939103
Skewness	1.48069083	Kurtosis	1.05663373
Uncorrected SS	2.2775	Corrected SS	0.95269231
Coeff Variation	88.2634628	Std Error Mean	0.07814731

Basic Statistical Measures			
Location		Variability	
Mean	0.319231	Std Deviation	0.28176
Median	0.200000	Variance	0.07939
Mode	0.100000	Range	0.85000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.084987	Pr > t 	0.0015
Sign	M	6.5	Pr >= M 	0.0002
Signed Rank	S	45.5	Pr >= S 	0.0002

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.95
99%	0.95
95%	0.95
90%	0.80
75% Q3	0.30
50% Median	0.20
25% Q1	0.10
10%	0.10
5%	0.10
1%	0.10
0% Min	0.10

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Turbidity (Total) FTU

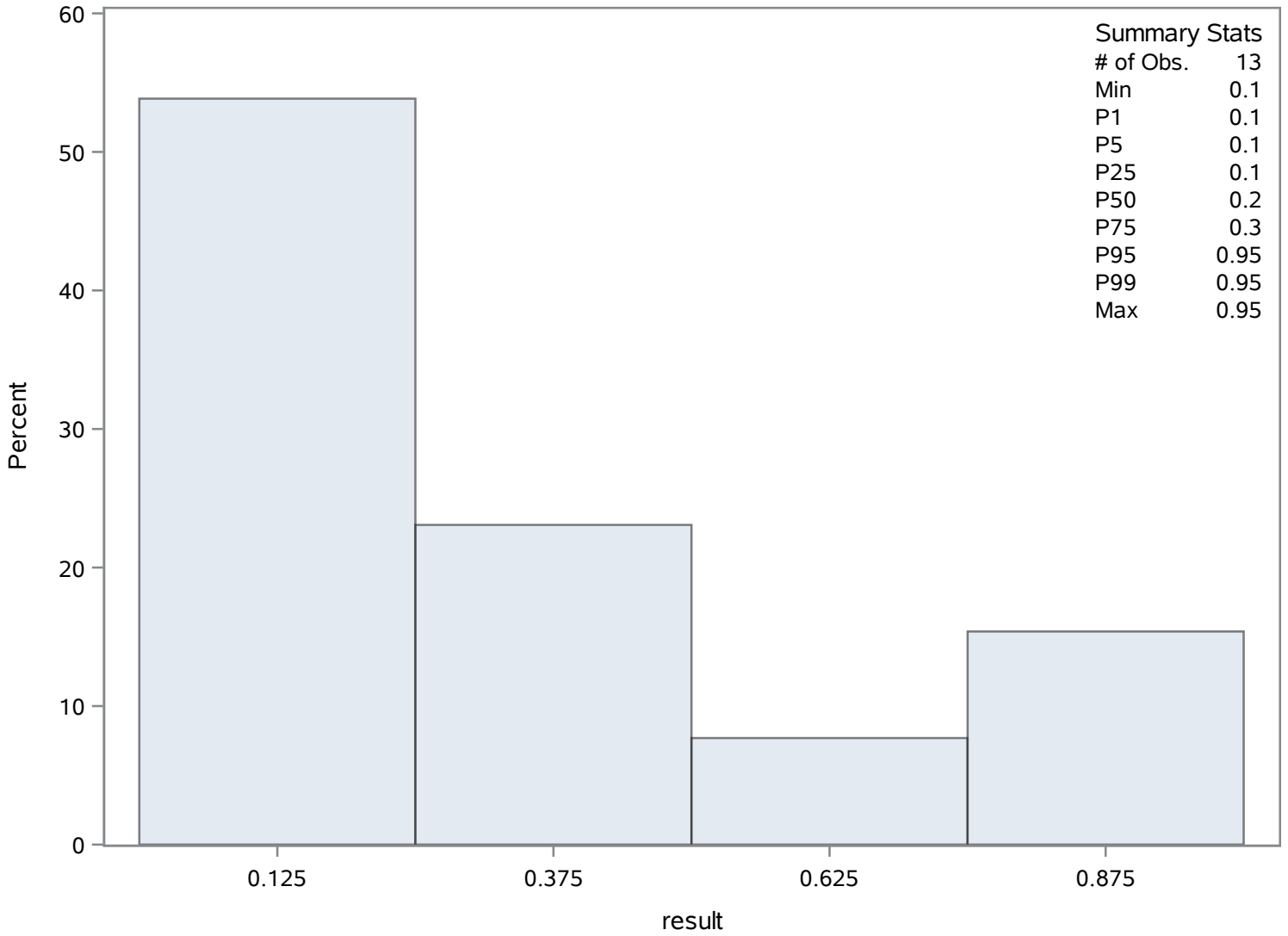
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.1	3048	0.25	3044
0.1	3047	0.30	3039
0.1	3043	0.60	3042
0.1	3040	0.80	3037
0.2	3046	0.95	3036

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Turbidity (Total) FTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	122	Sum Weights	122
Mean	1.12344262	Sum Observations	137.06
Std Deviation	4.26718456	Variance	18.2088641
Skewness	9.83004398	Kurtosis	103.237602
Uncorrected SS	2357.2516	Corrected SS	2203.27255
Coeff Variation	379.831108	Std Error Mean	0.38633274

Basic Statistical Measures			
Location		Variability	
Mean	1.123443	Std Deviation	4.26718
Median	0.370000	Variance	18.20886
Mode	0.100000	Range	45.97000
		Interquartile Range	0.64000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	2.907966	Pr > t 	0.0043
Sign	M	61	Pr >= M 	<.0001
Signed Rank	S	3751.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	46.00
99%	6.40
95%	2.27
90%	1.90
75% Q3	0.77
50% Median	0.37
25% Q1	0.13
10%	0.10
5%	0.08
1%	0.05
0% Min	0.03

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Turbidity (Total) NTU

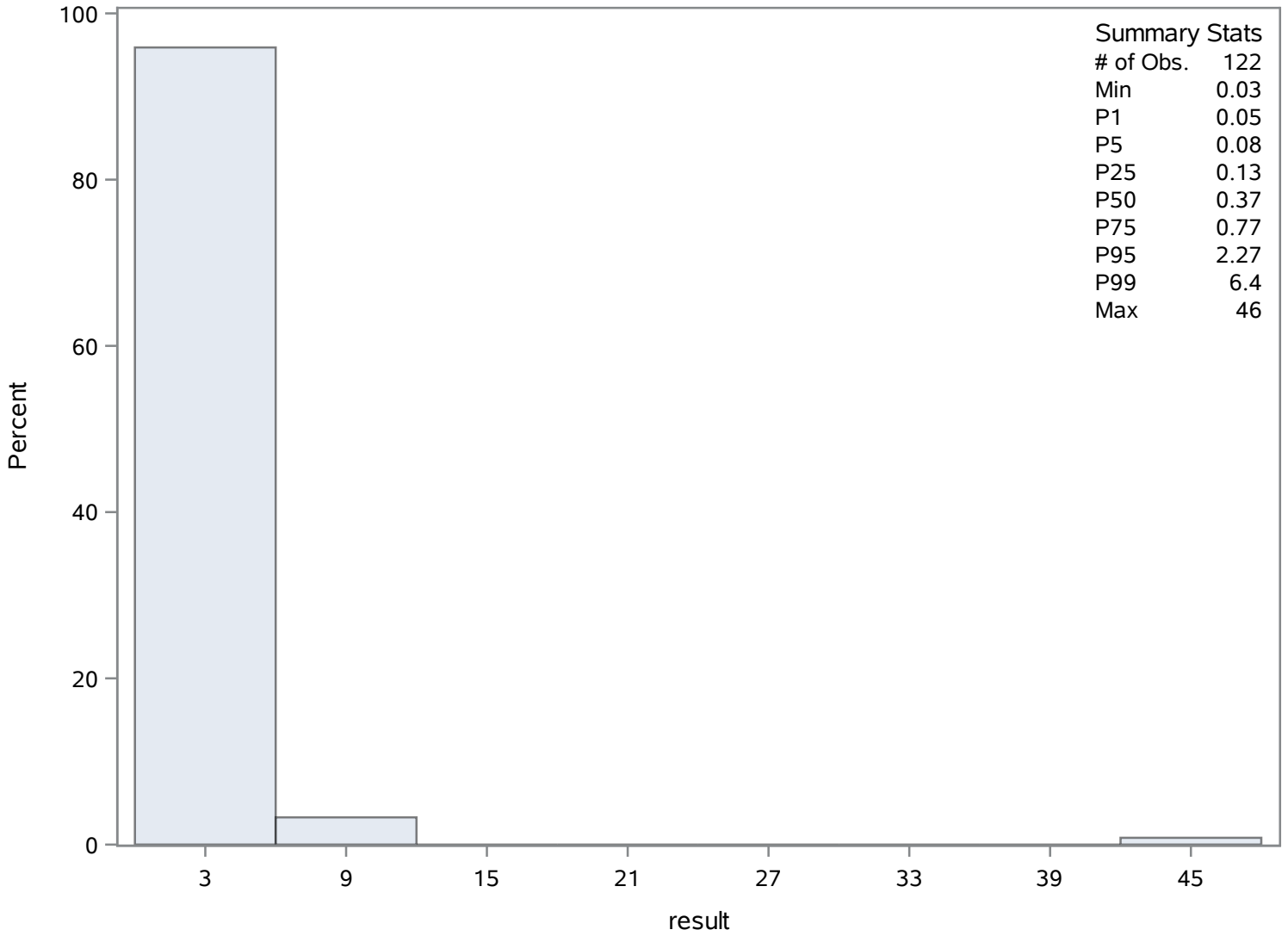
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.03	3123	6.23	3130
0.05	3070	6.23	3164
0.05	3055	6.40	3081
0.08	3122	6.40	3082
0.08	3121	46.00	3061

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka Main Spring

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	95	Sum Weights	95
Mean	7.43884211	Sum Observations	706.69
Std Deviation	0.11447255	Variance	0.01310396
Skewness	0.01544483	Kurtosis	-0.0587786
Uncorrected SS	5258.1871	Corrected SS	1.23177263
Coeff Variation	1.538849	Std Error Mean	0.01174464

Basic Statistical Measures			
Location		Variability	
Mean	7.438842	Std Deviation	0.11447
Median	7.430000	Variance	0.01310
Mode	7.390000	Range	0.62000
		Interquartile Range	0.17000

Note: The mode displayed is the smallest of 3 modes with a count of 6.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	633.3821	Pr > t 	<.0001
Sign	M	47.5	Pr >= M 	<.0001
Signed Rank	S	2280	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.75
99%	7.75
95%	7.61
90%	7.58
75% Q3	7.53
50% Median	7.43
25% Q1	7.36
10%	7.29
5%	7.24

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

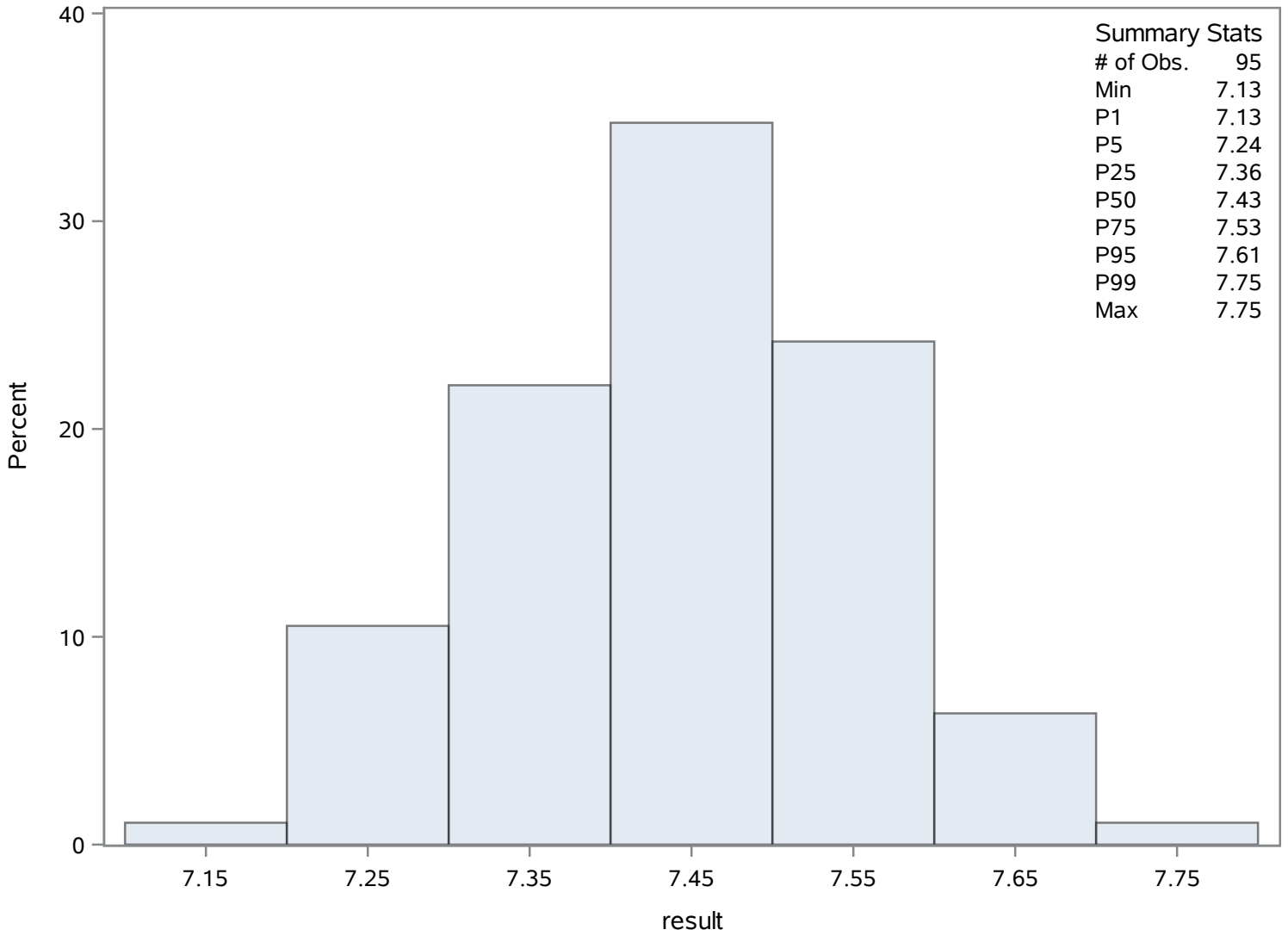
Quantiles (Definition 5)	
Level	Quantile
1%	7.13
0% Min	7.13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.13	3224	7.61	3215
7.22	3253	7.62	3188
7.23	3192	7.65	3201
7.23	3191	7.69	3174
7.24	3199	7.75	3202

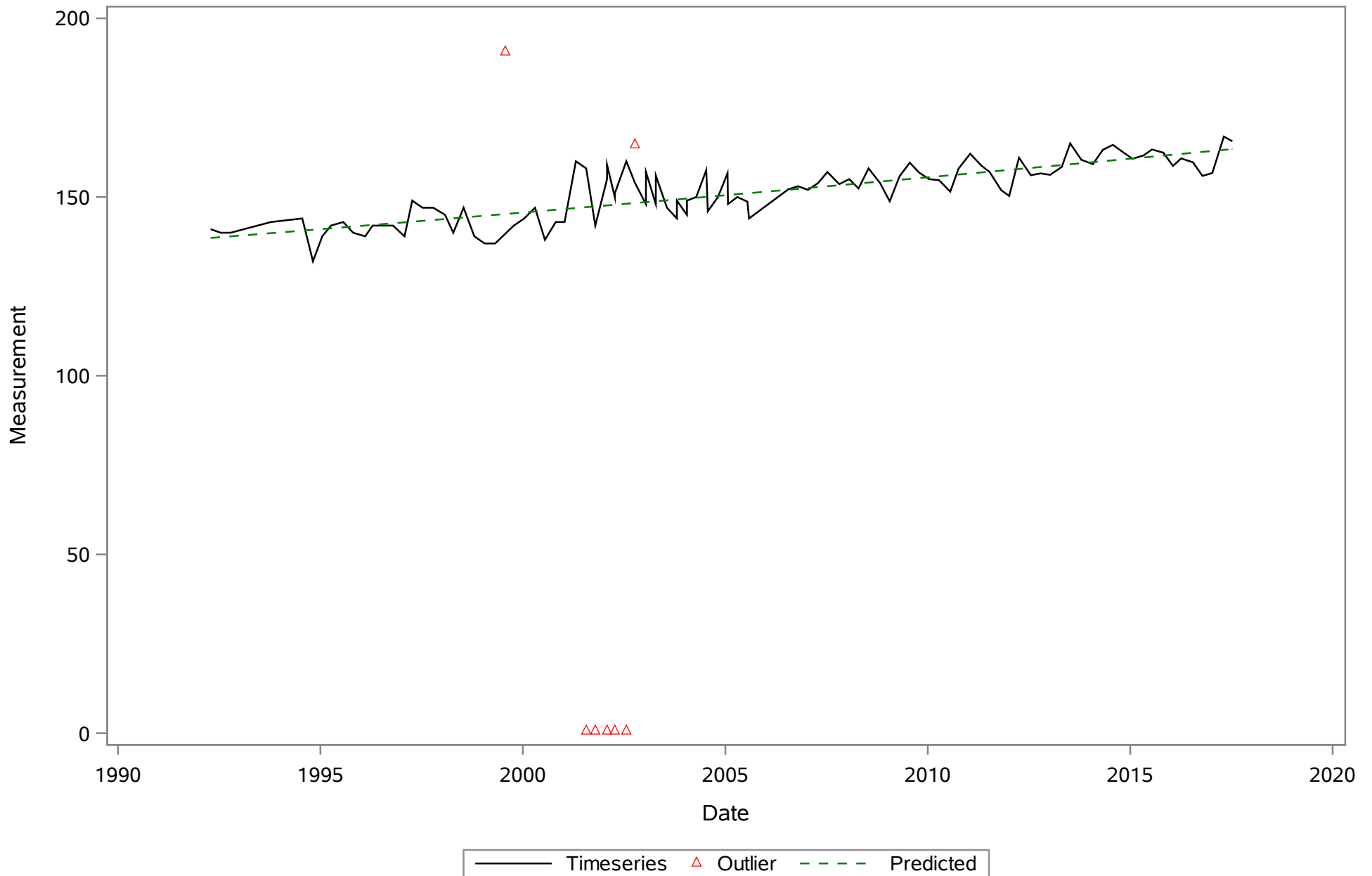
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
pH (Total) SU

The UNIVARIATE Procedure

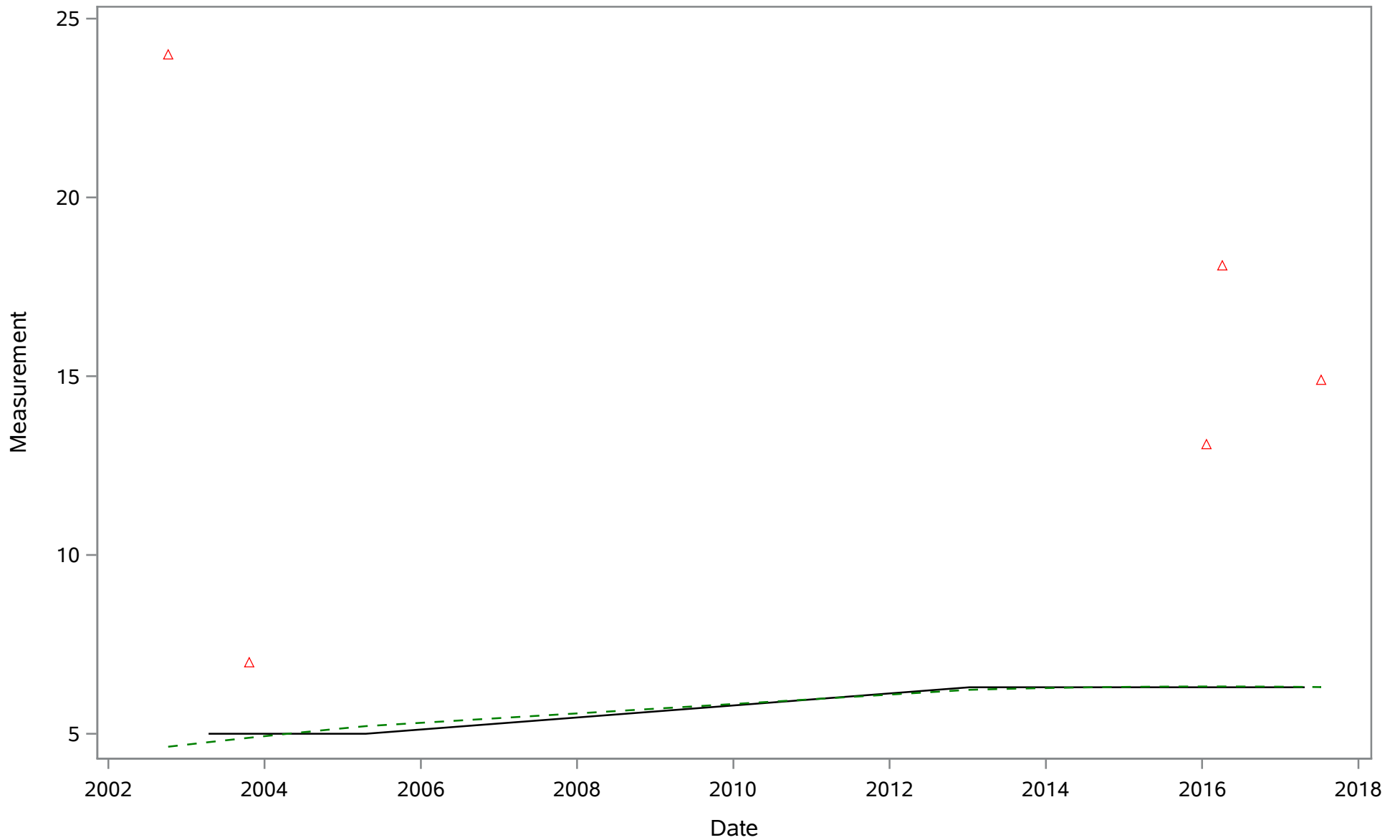
Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Alkalinity (Total) mg/L

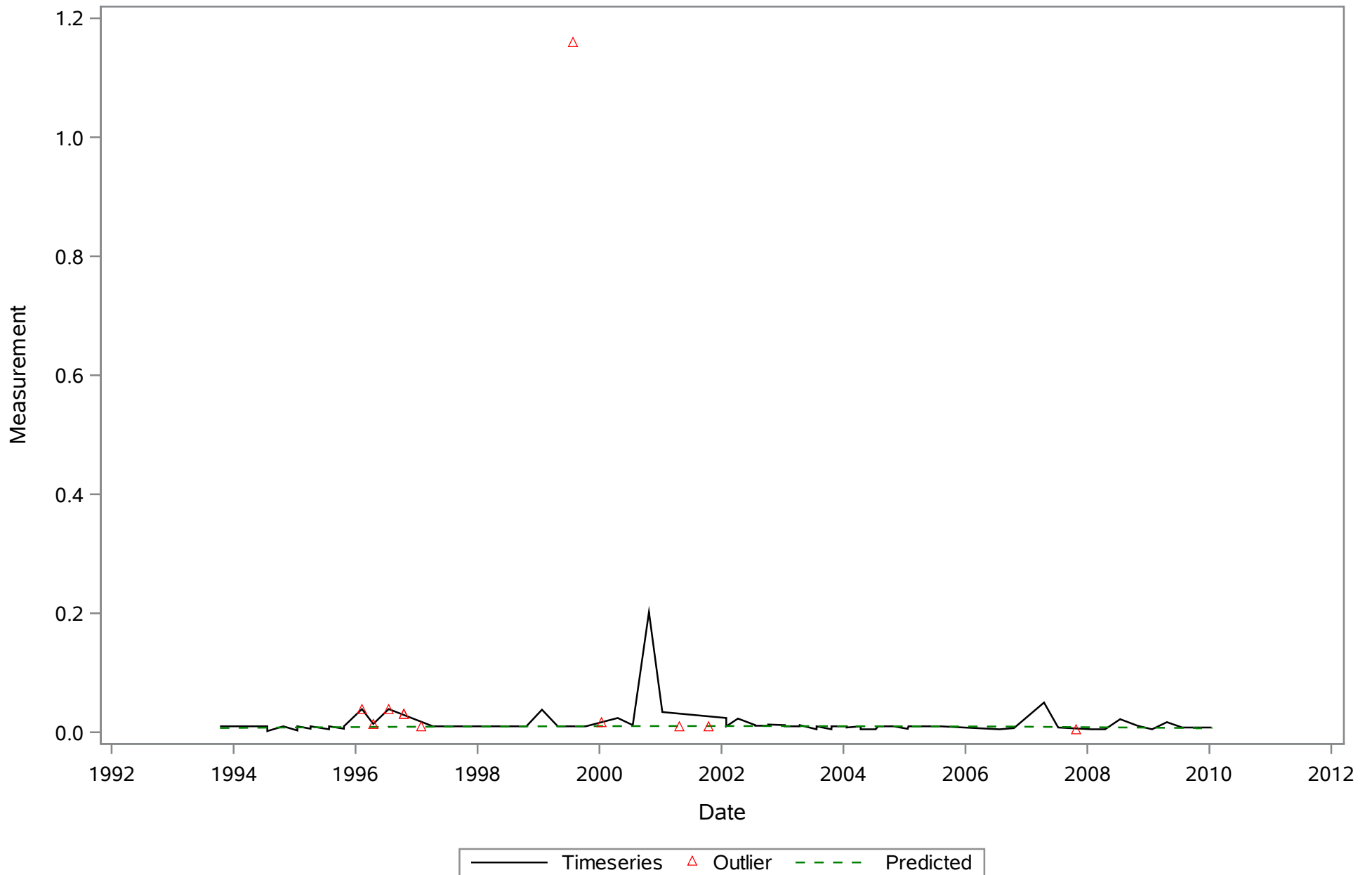


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Aluminum (Dissolved) ug/L

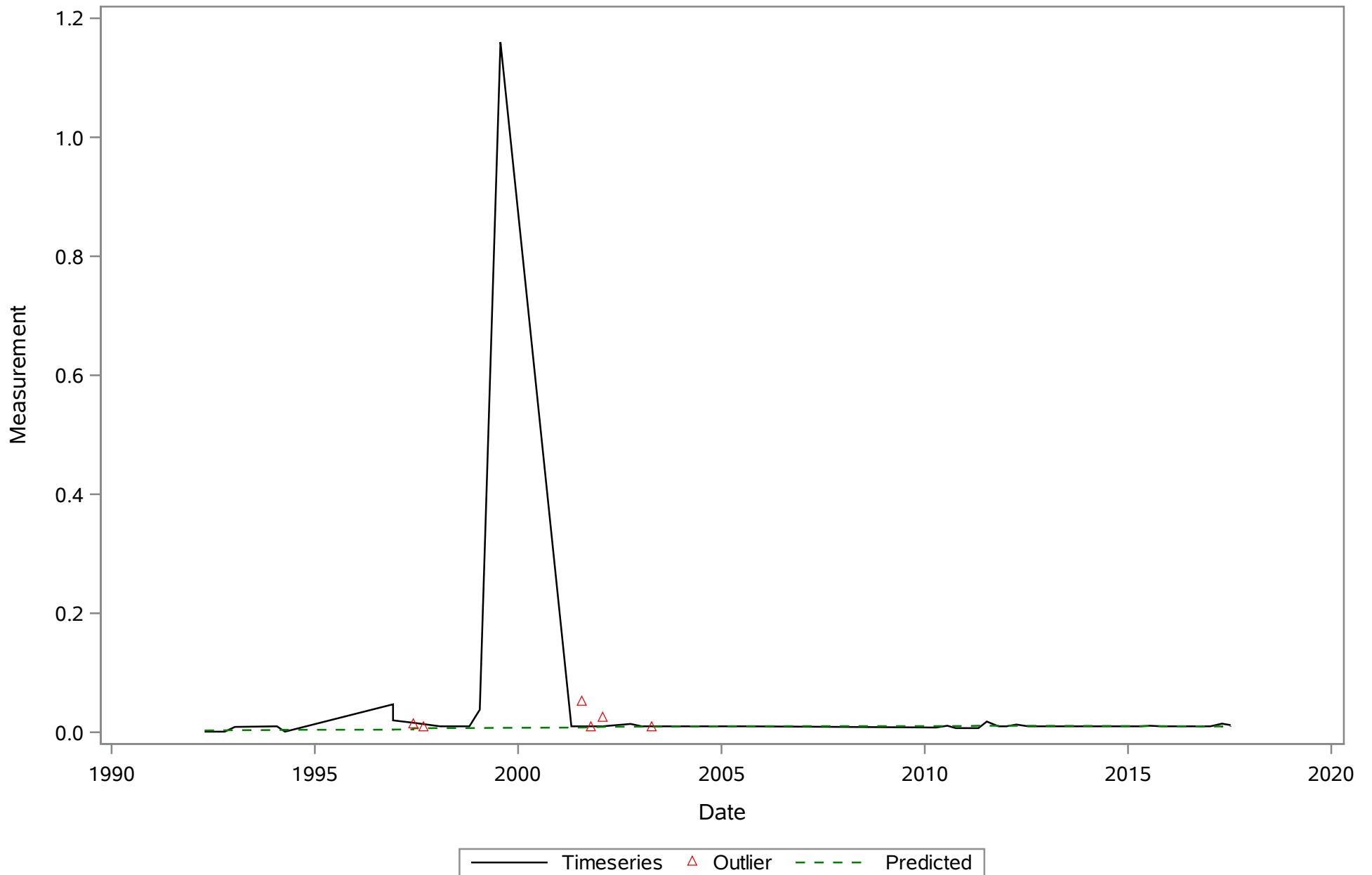


— Timeseries △ Outlier - - - Predicted

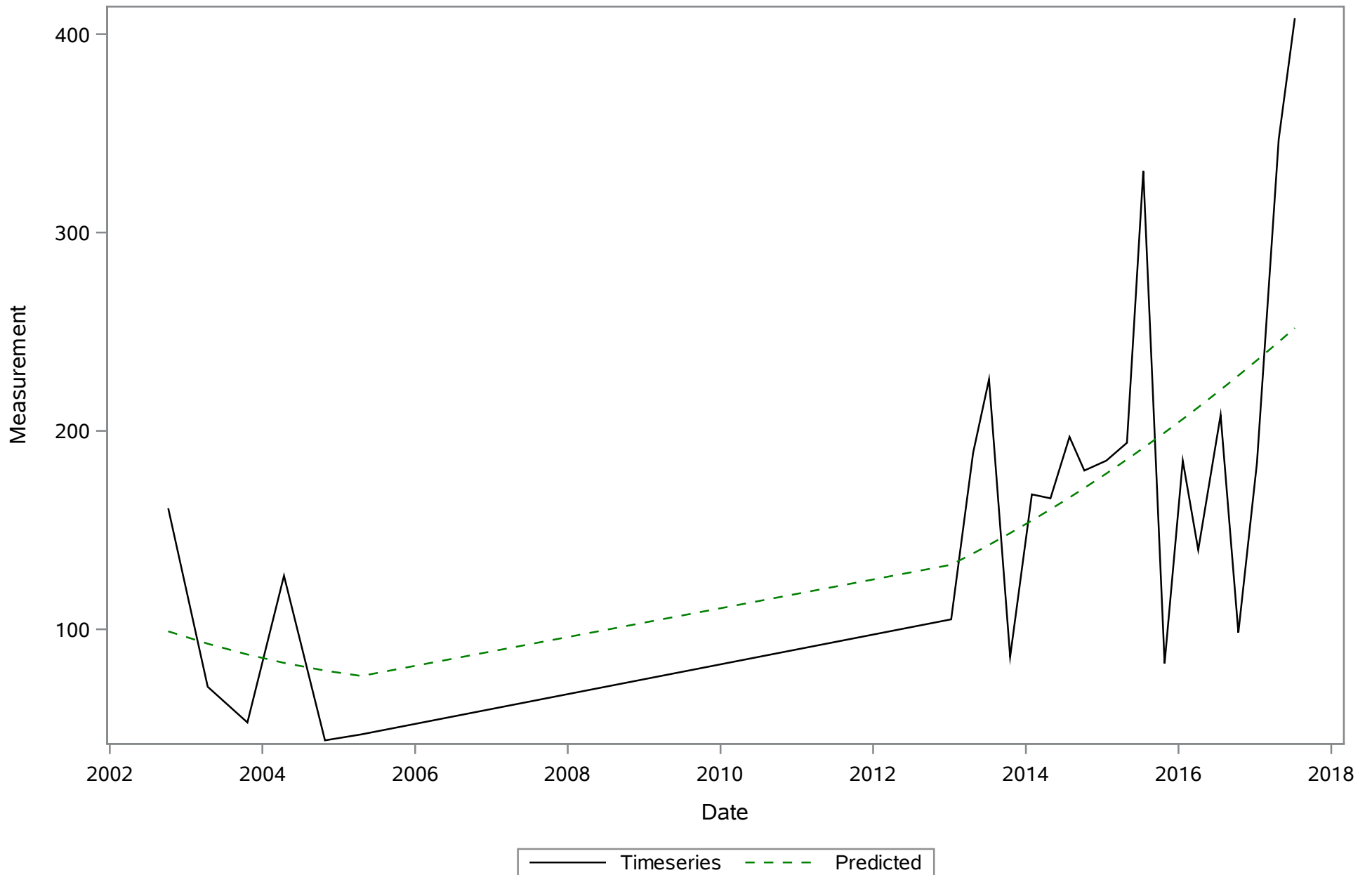
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Dissolved) mg/L



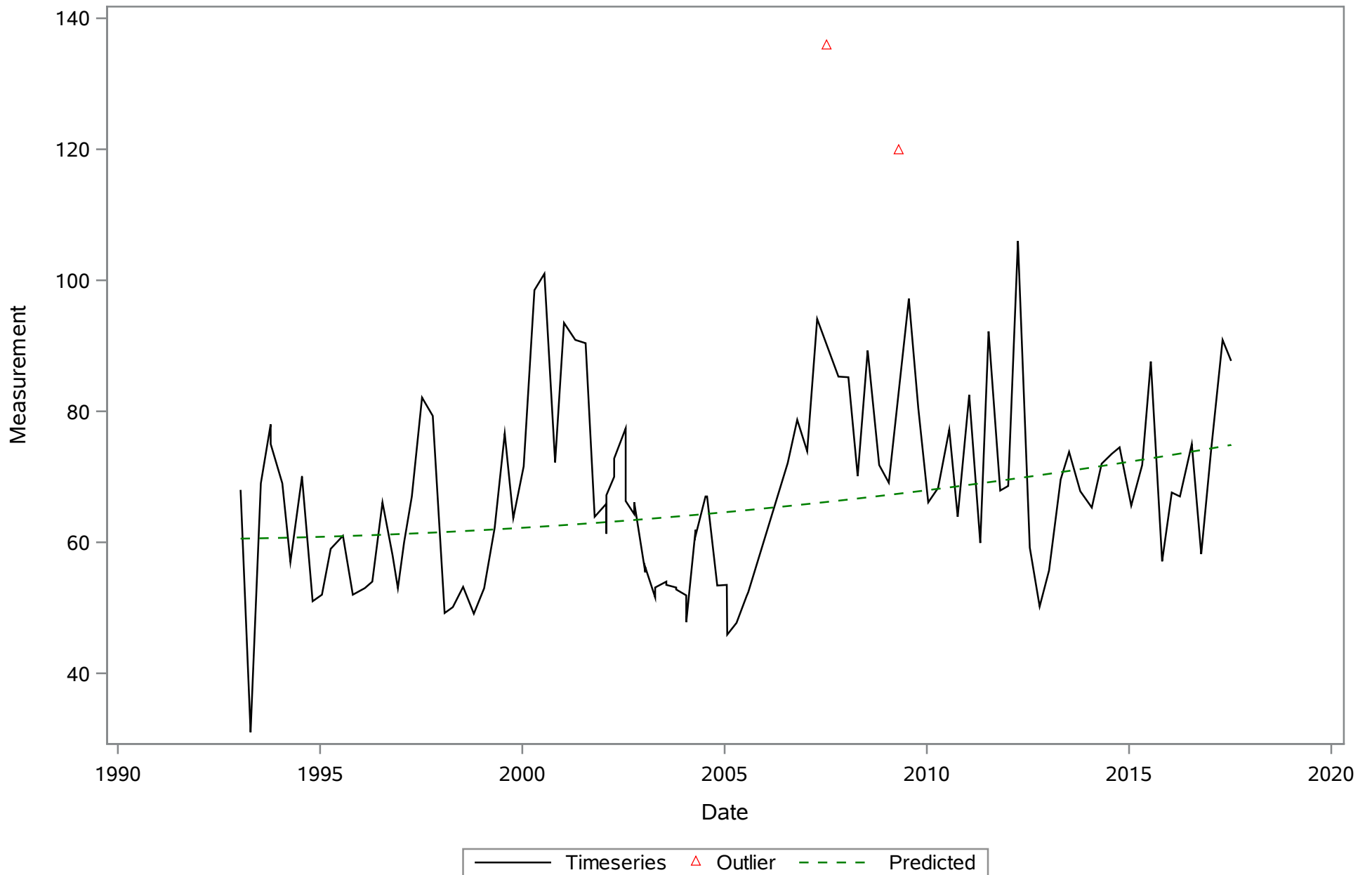
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Total) mg/L



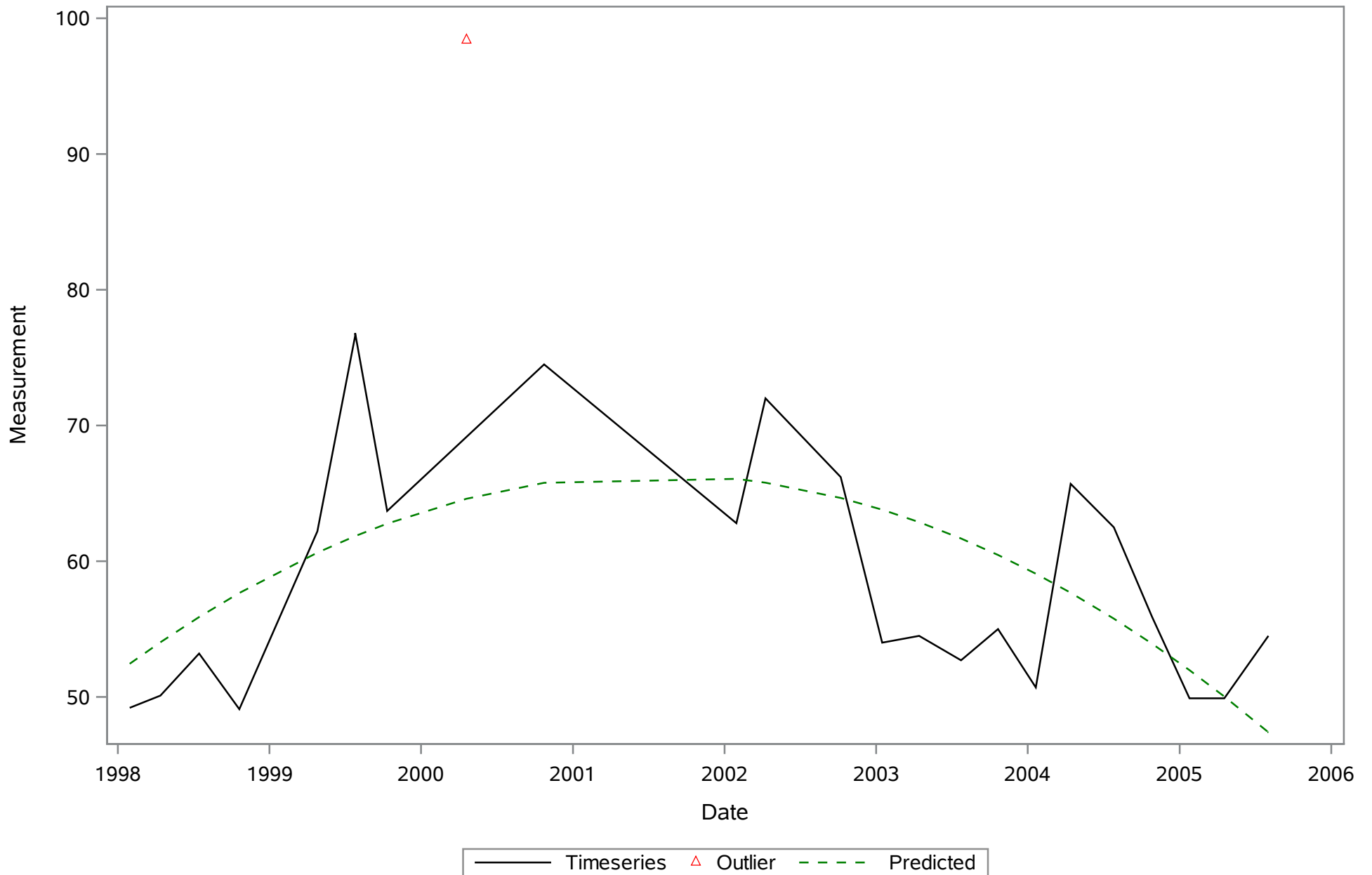
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Boron (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Calcium (Dissolved) mg/L

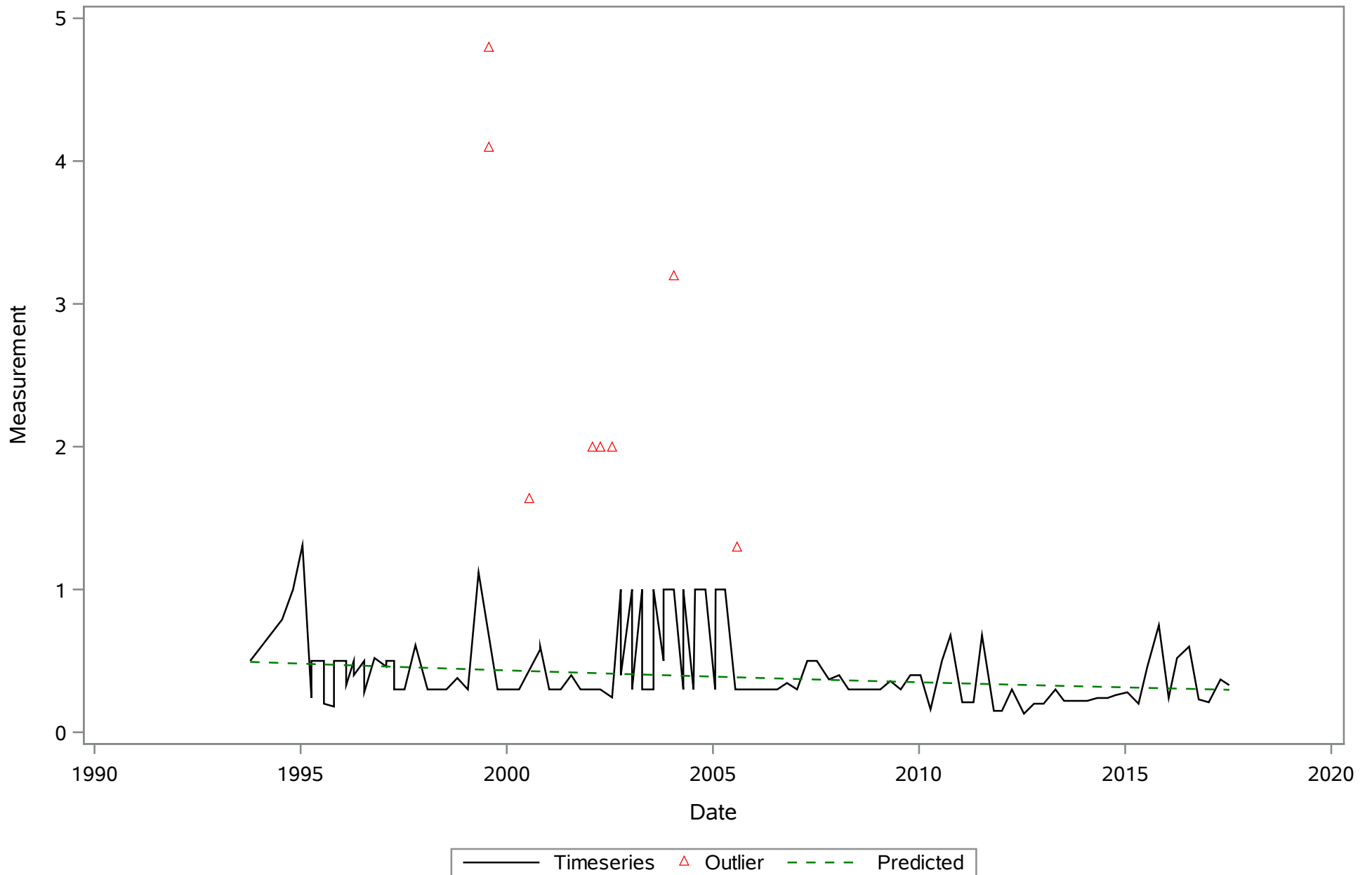


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Calcium (Total) mg/L

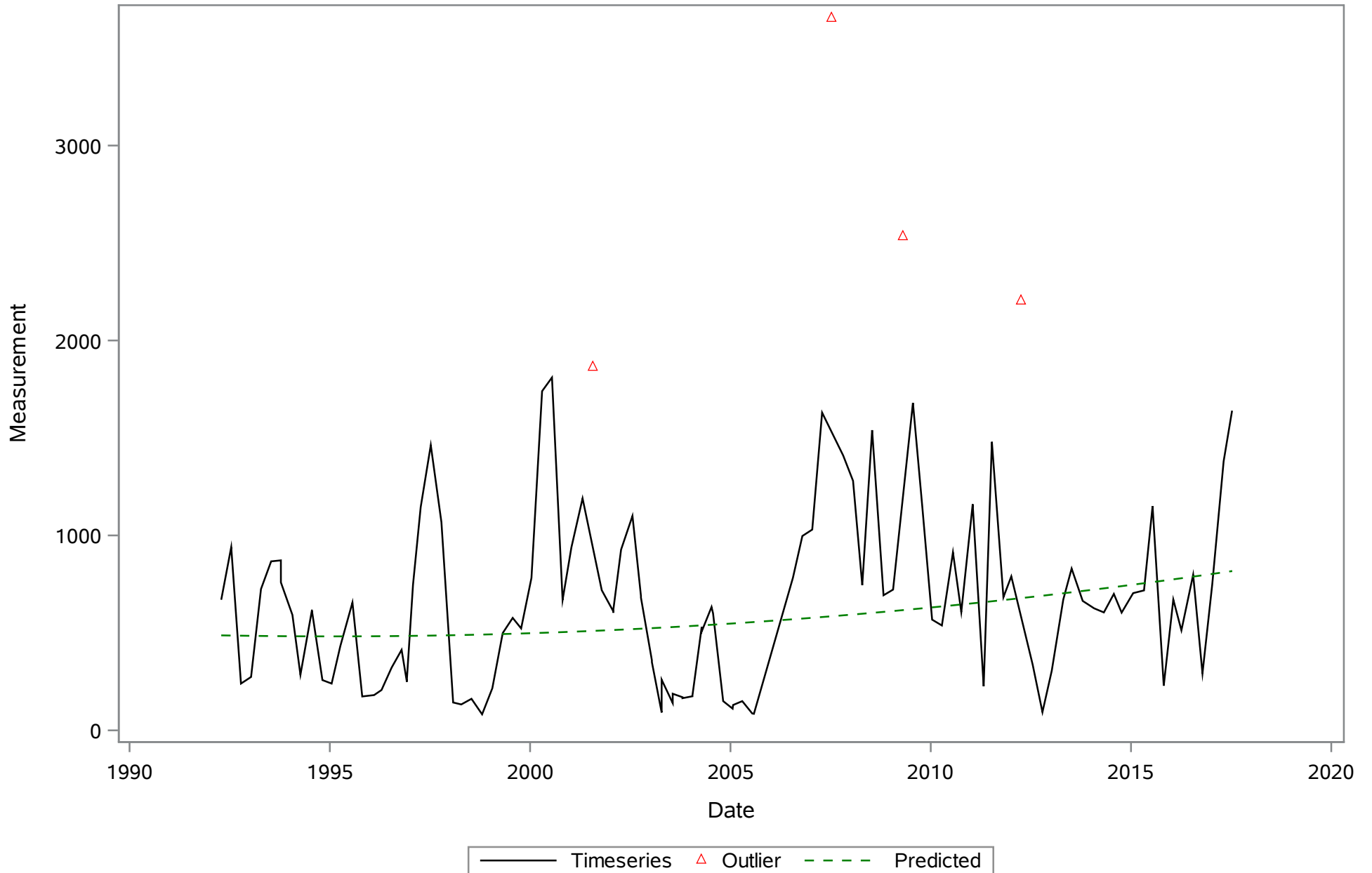


Chassahowitzka River - Fixed Station

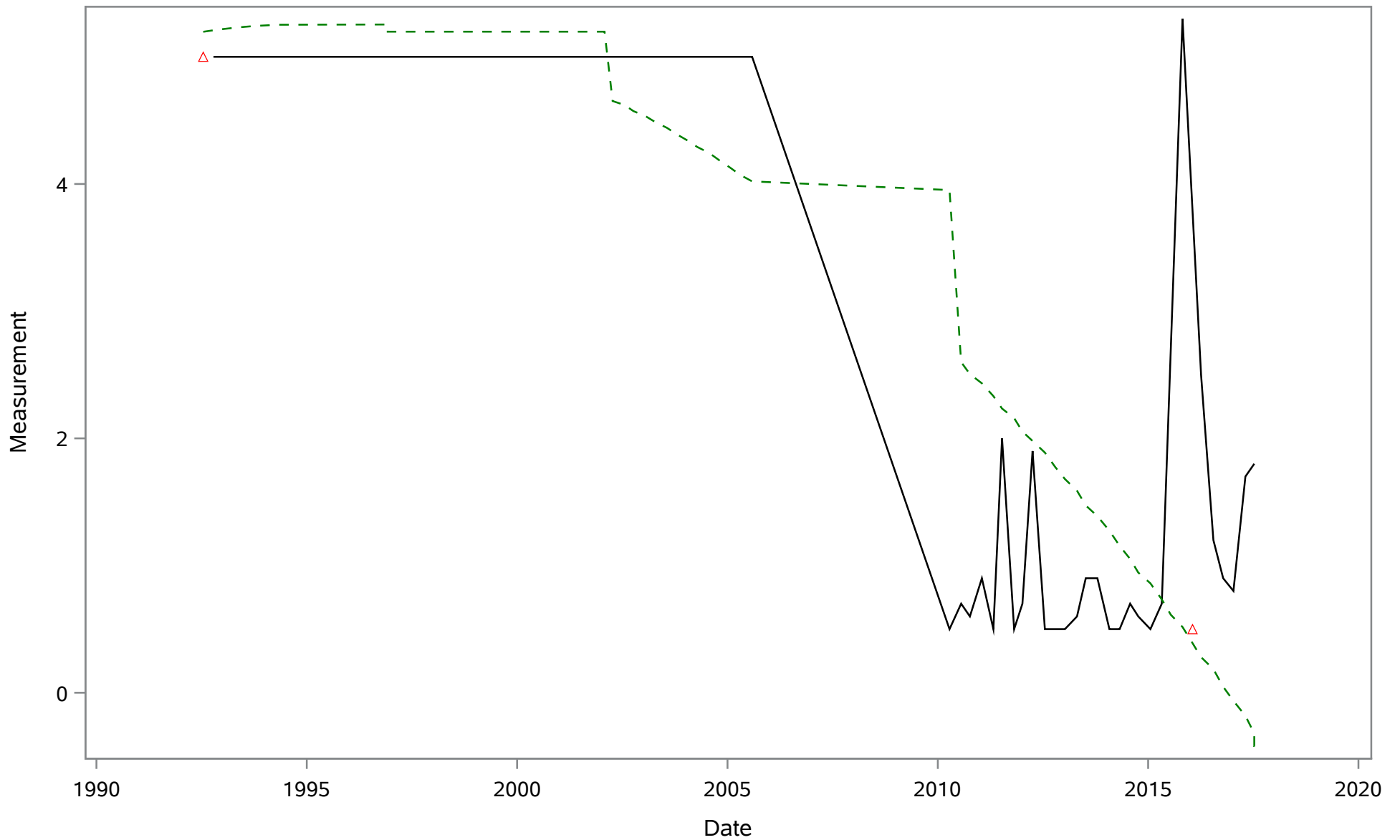
Source: Springs Data
Chassahowitzka Main Spring
Carbon- Total Organic (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Chloride (Dissolved) mg/L

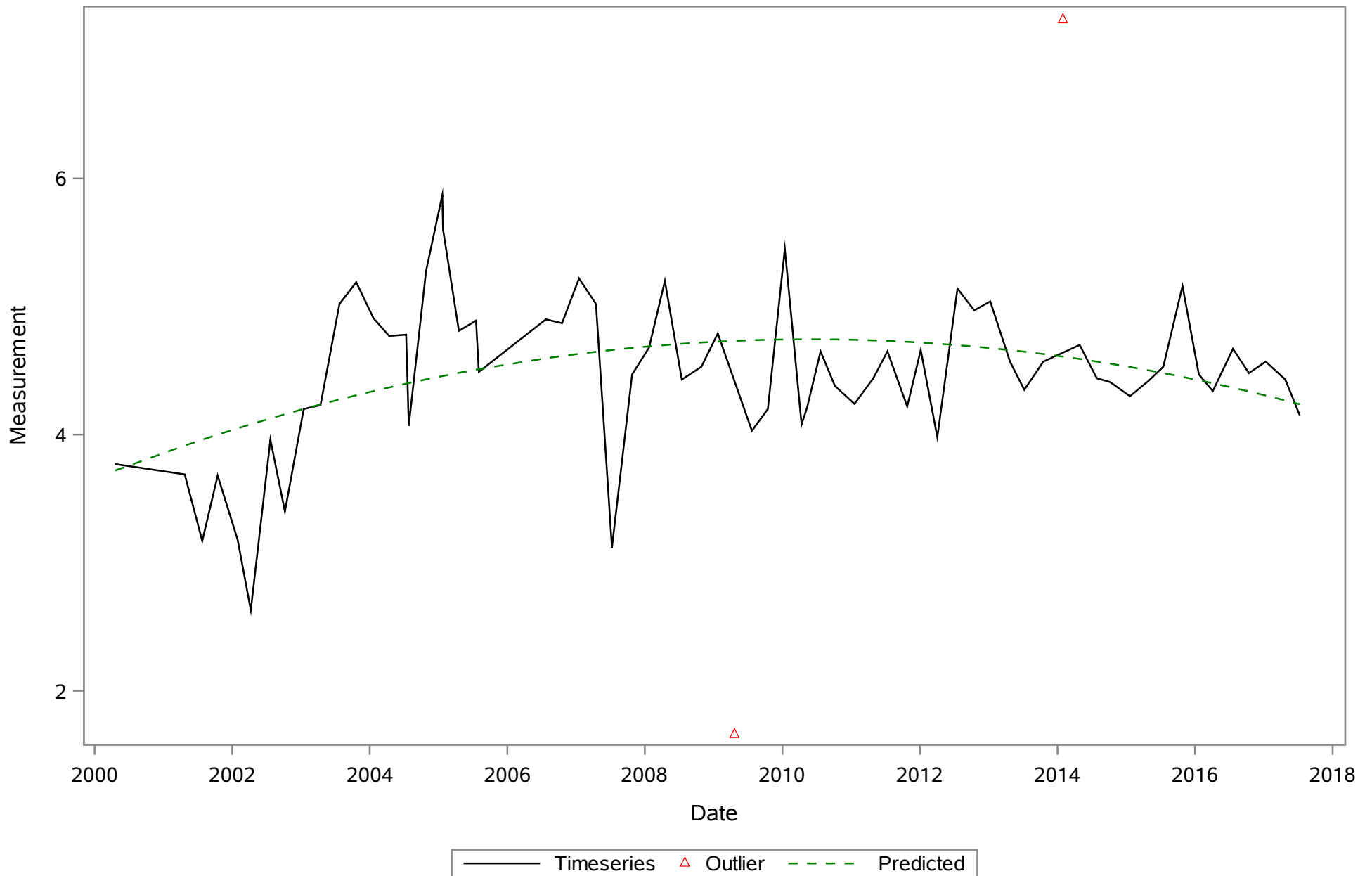


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Color (Dissolved) PCU

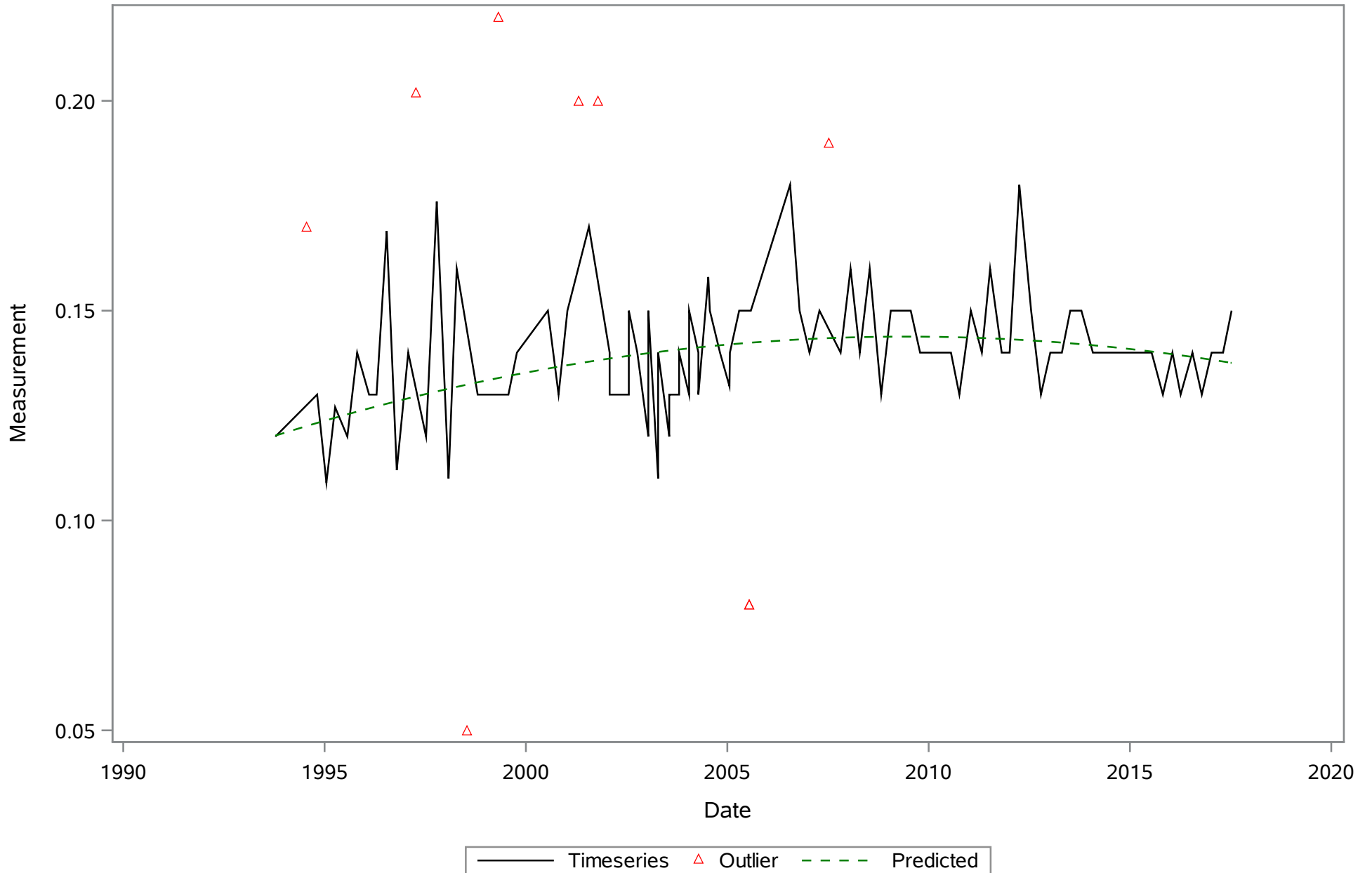


— Timeseries △ Outlier - - - Predicted

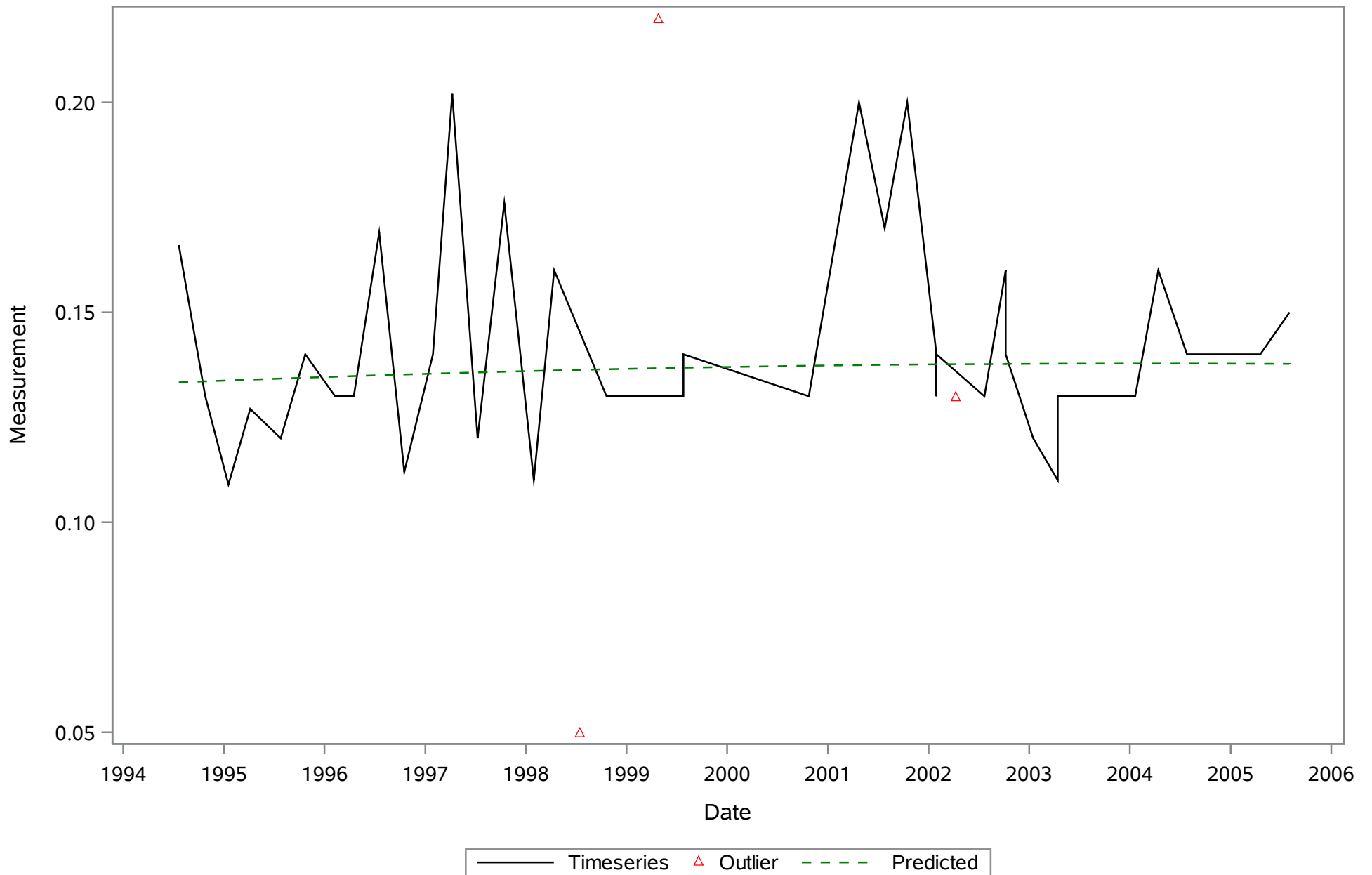
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Dissolved Oxygen (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Dissolved) mg/L



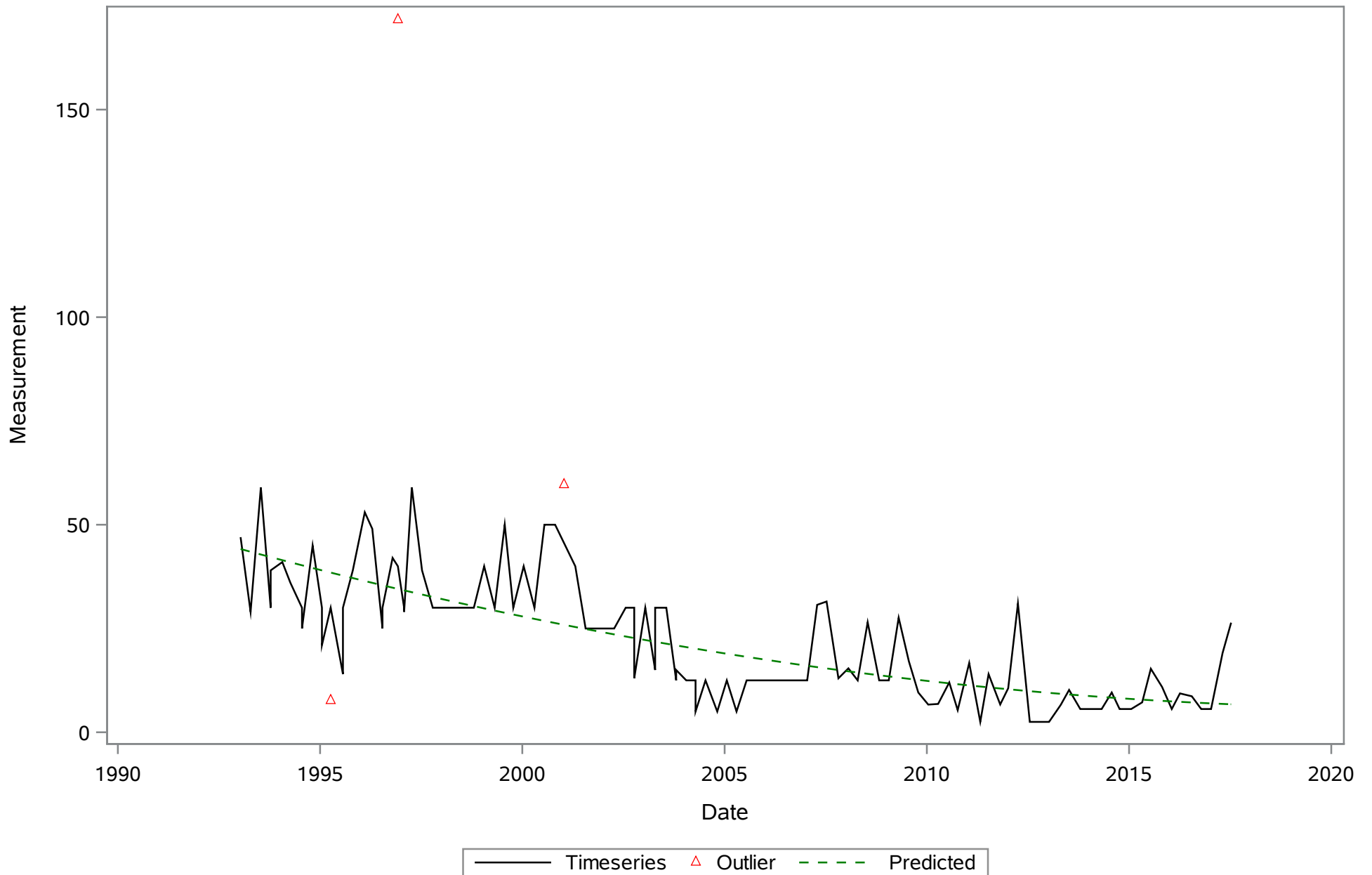
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Total) mg/L



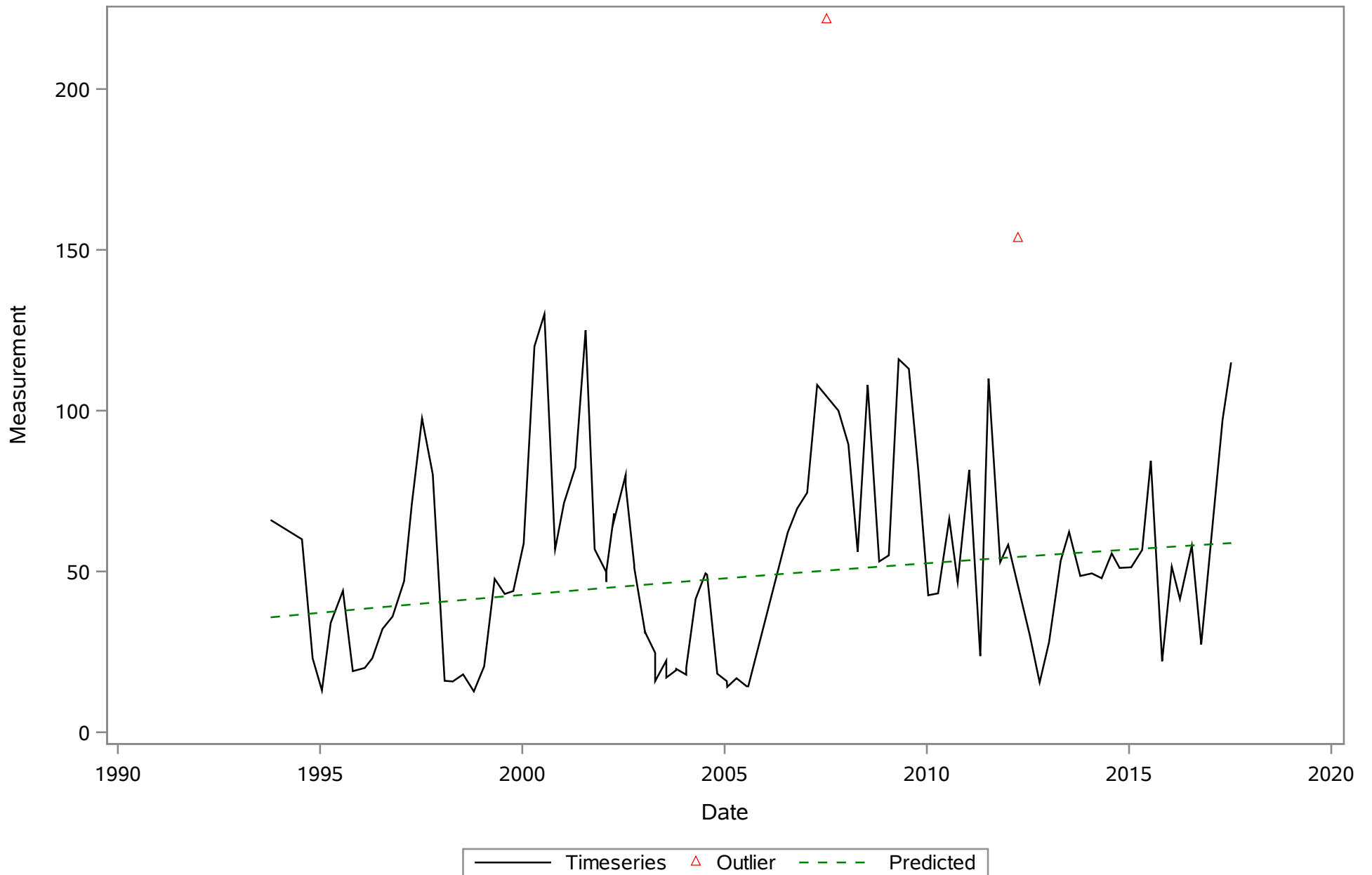
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Hardness (Total) mg/L



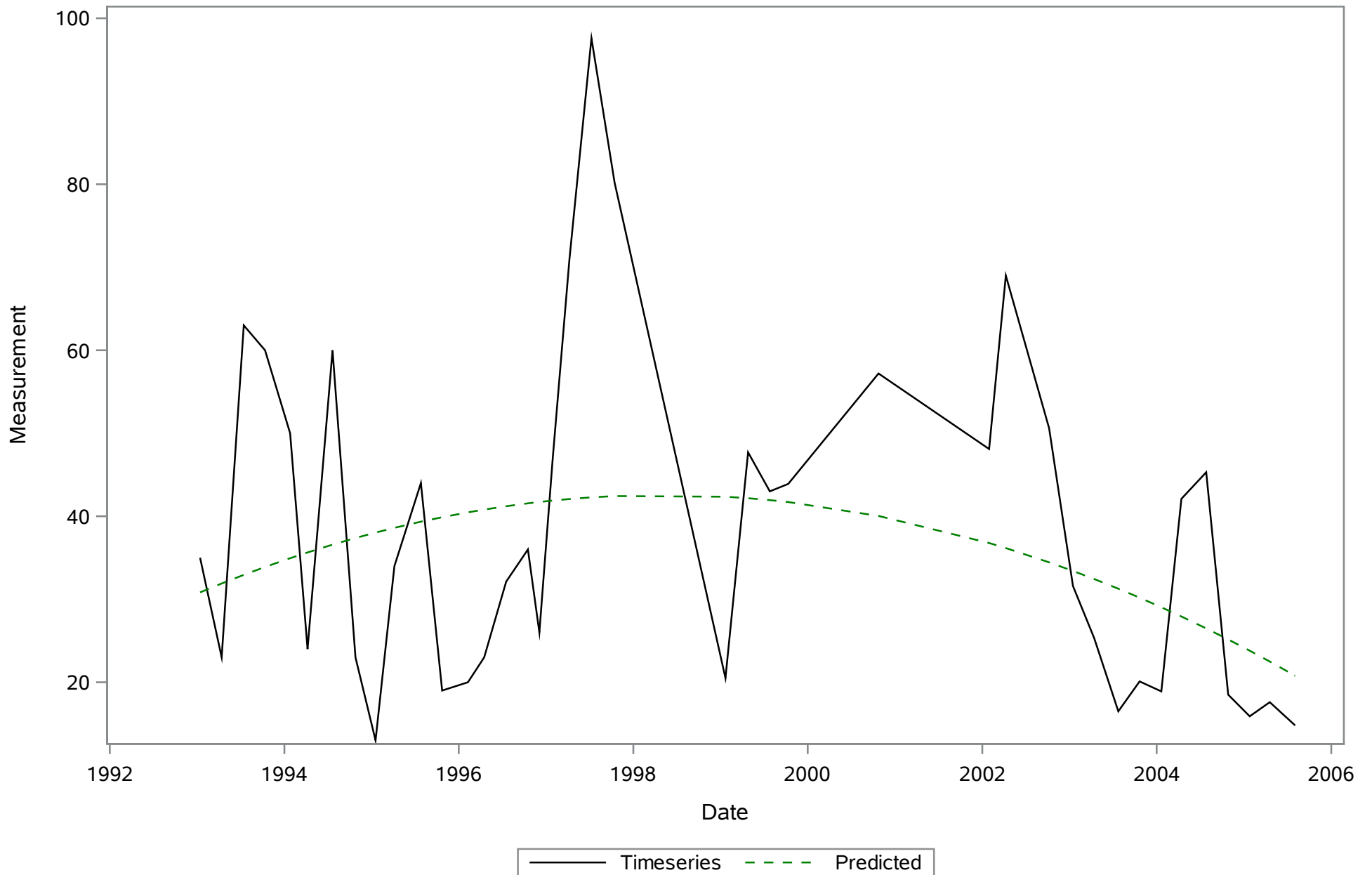
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Iron (Dissolved) ug/L



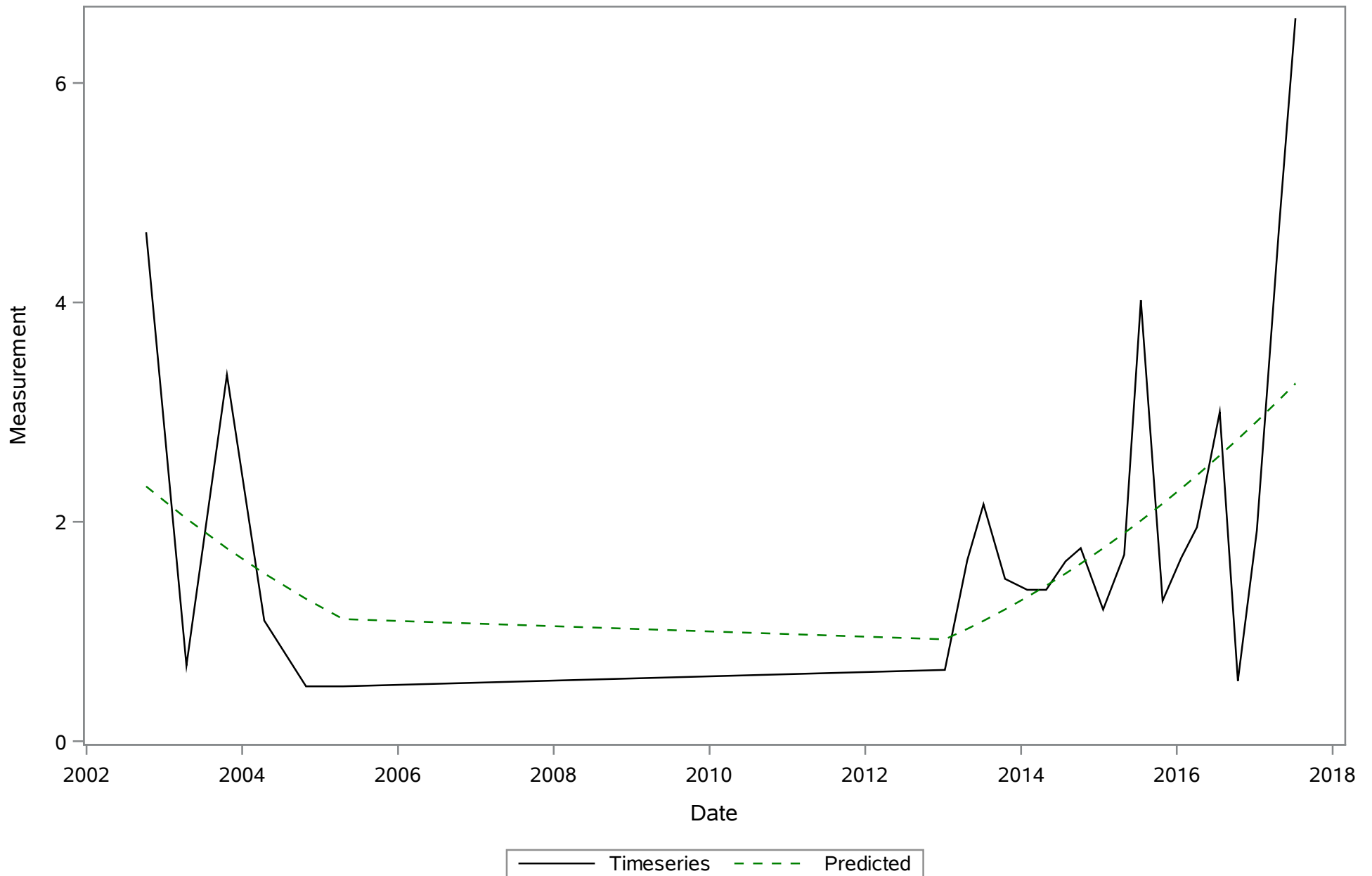
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Dissolved) mg/L



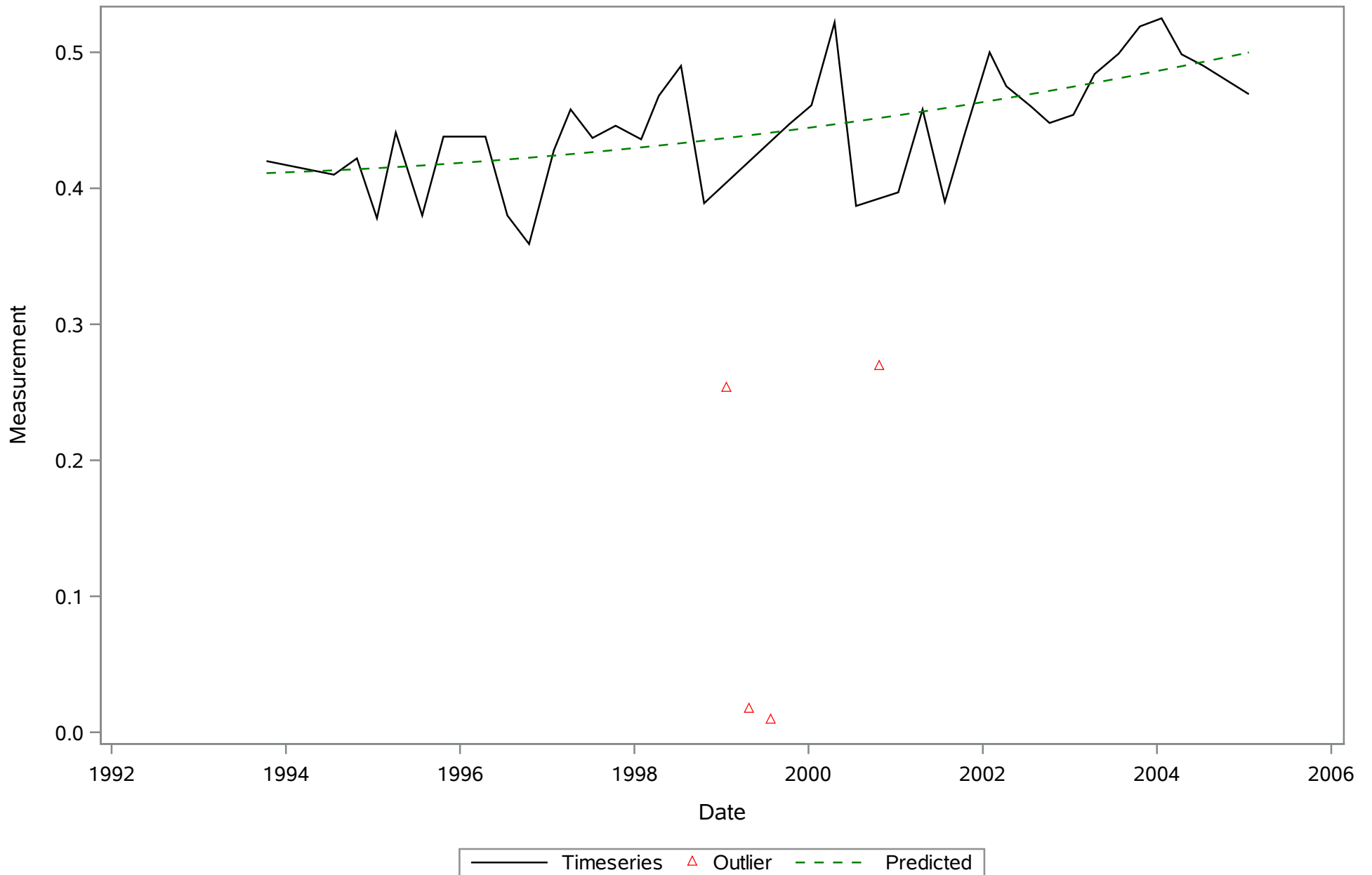
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Total) mg/L



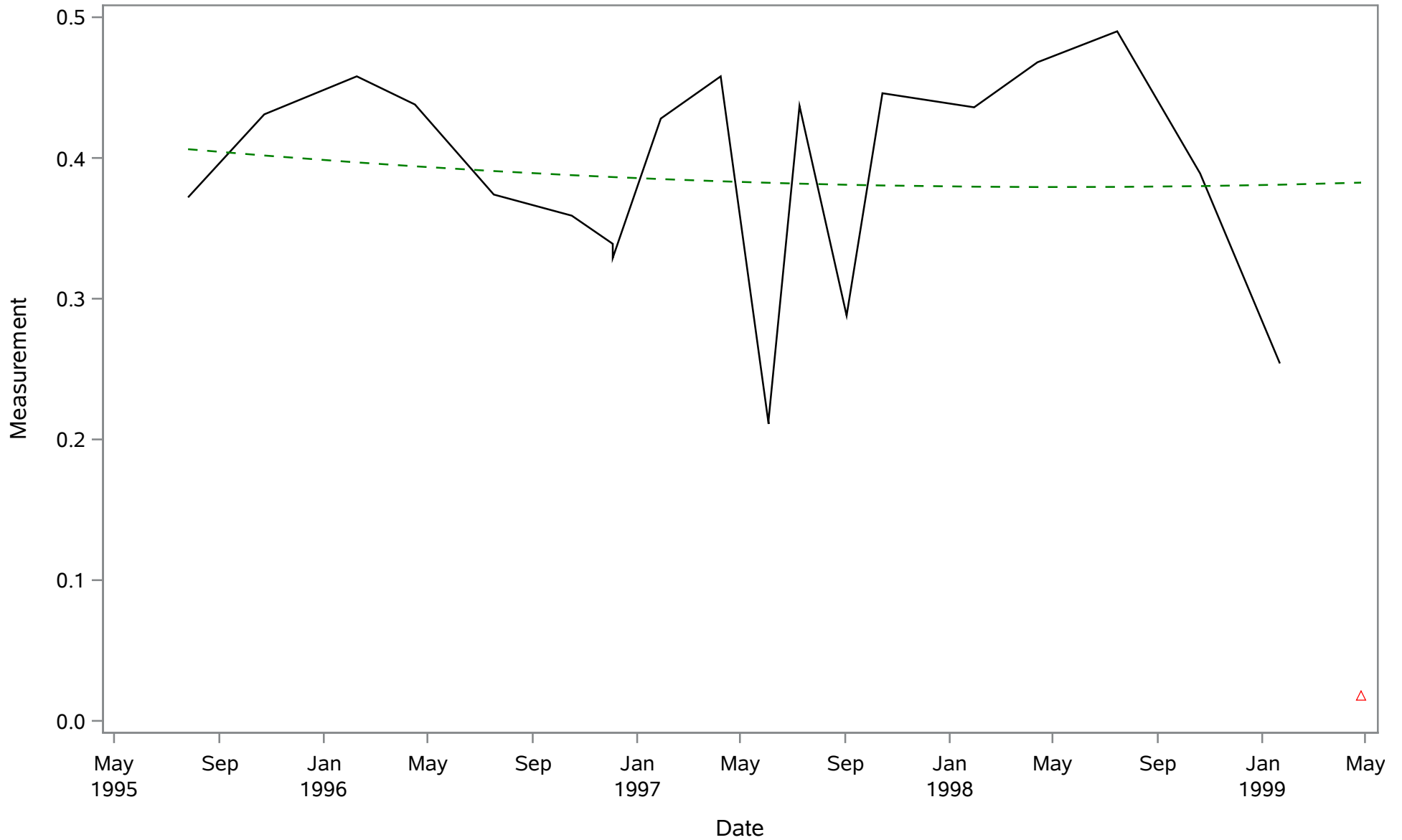
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Manganese (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Dissolved) mg/L

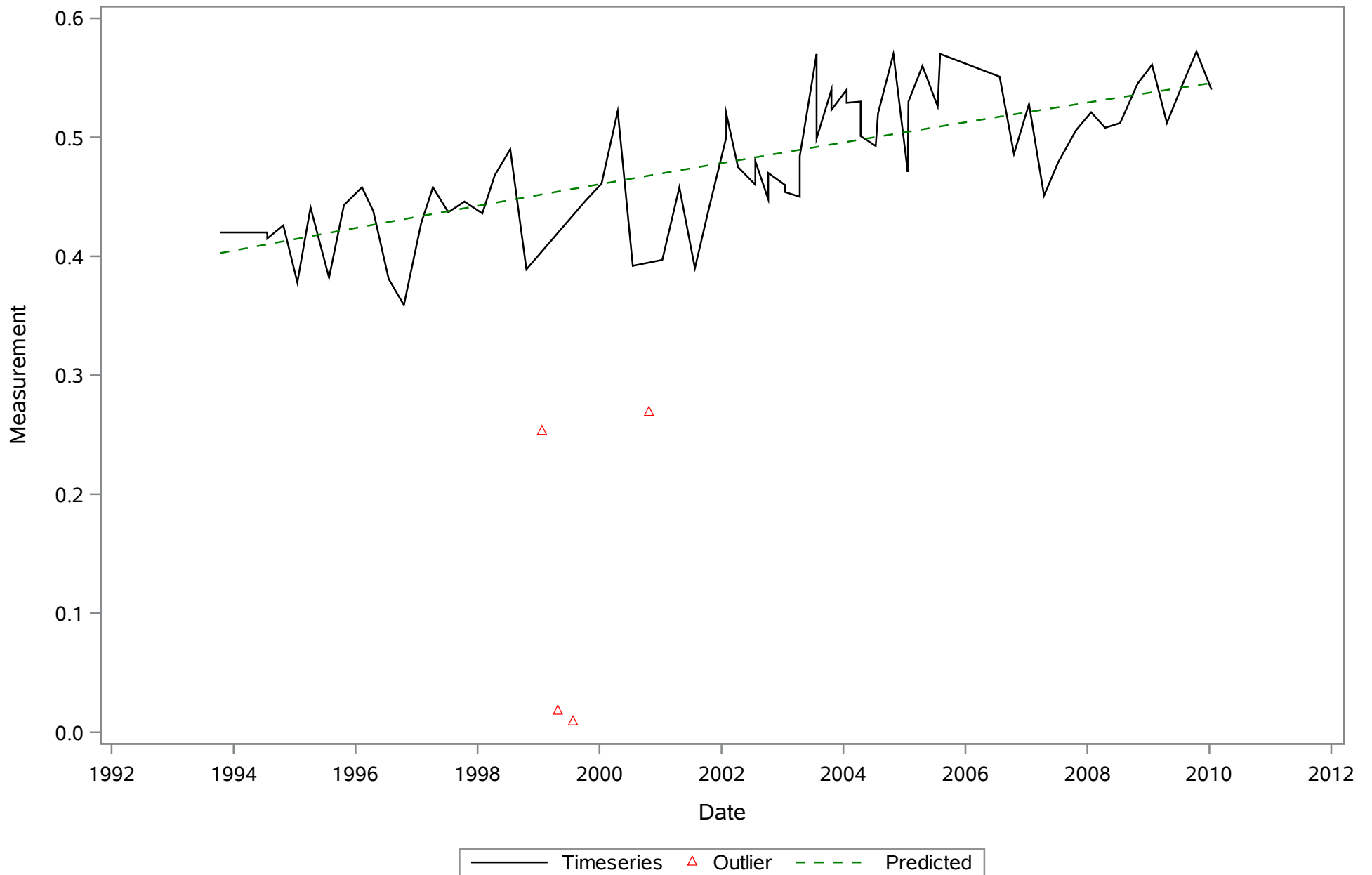


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Total) mg/L

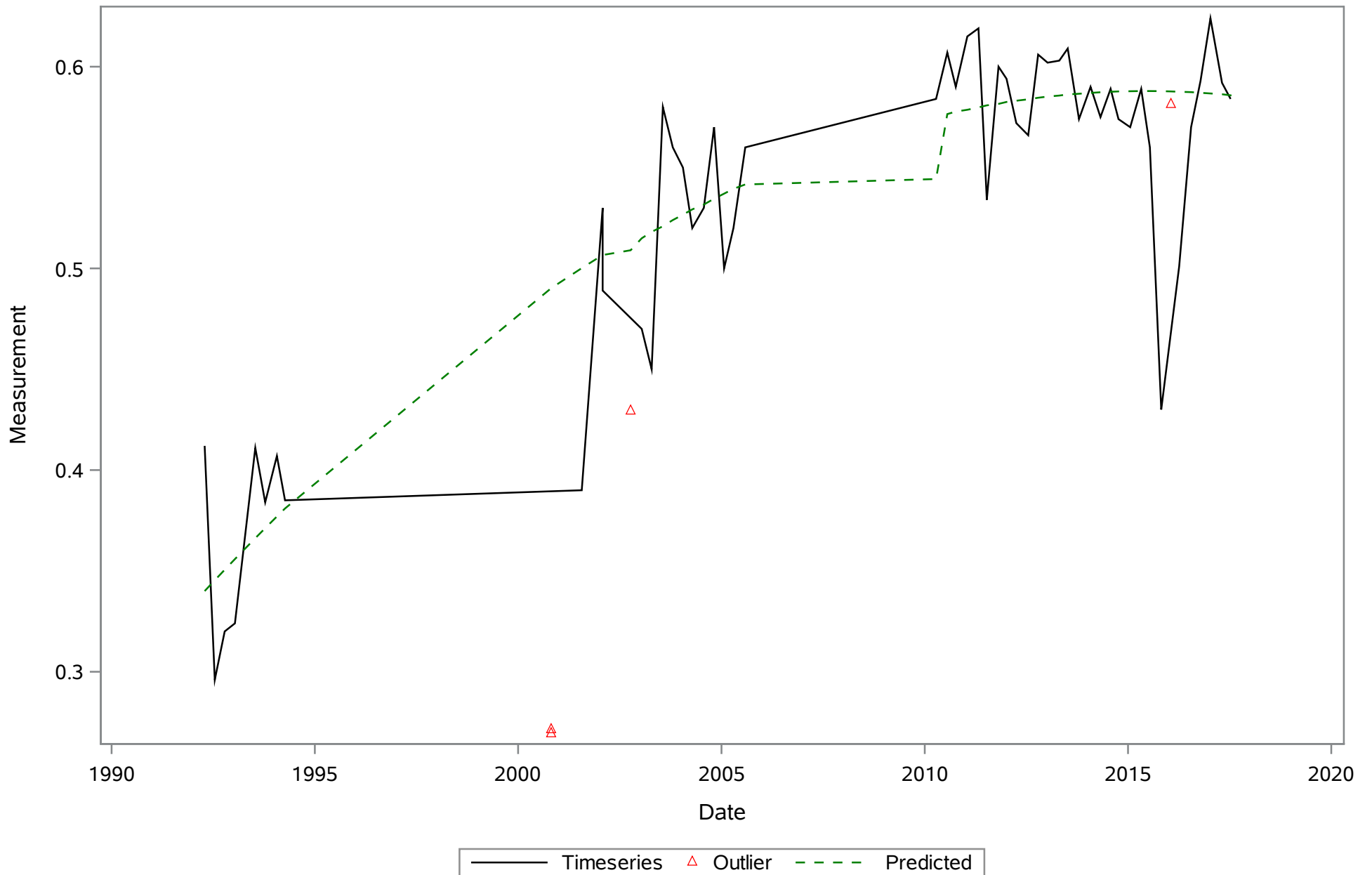


— Timeseries ▲ Outlier - - - Predicted

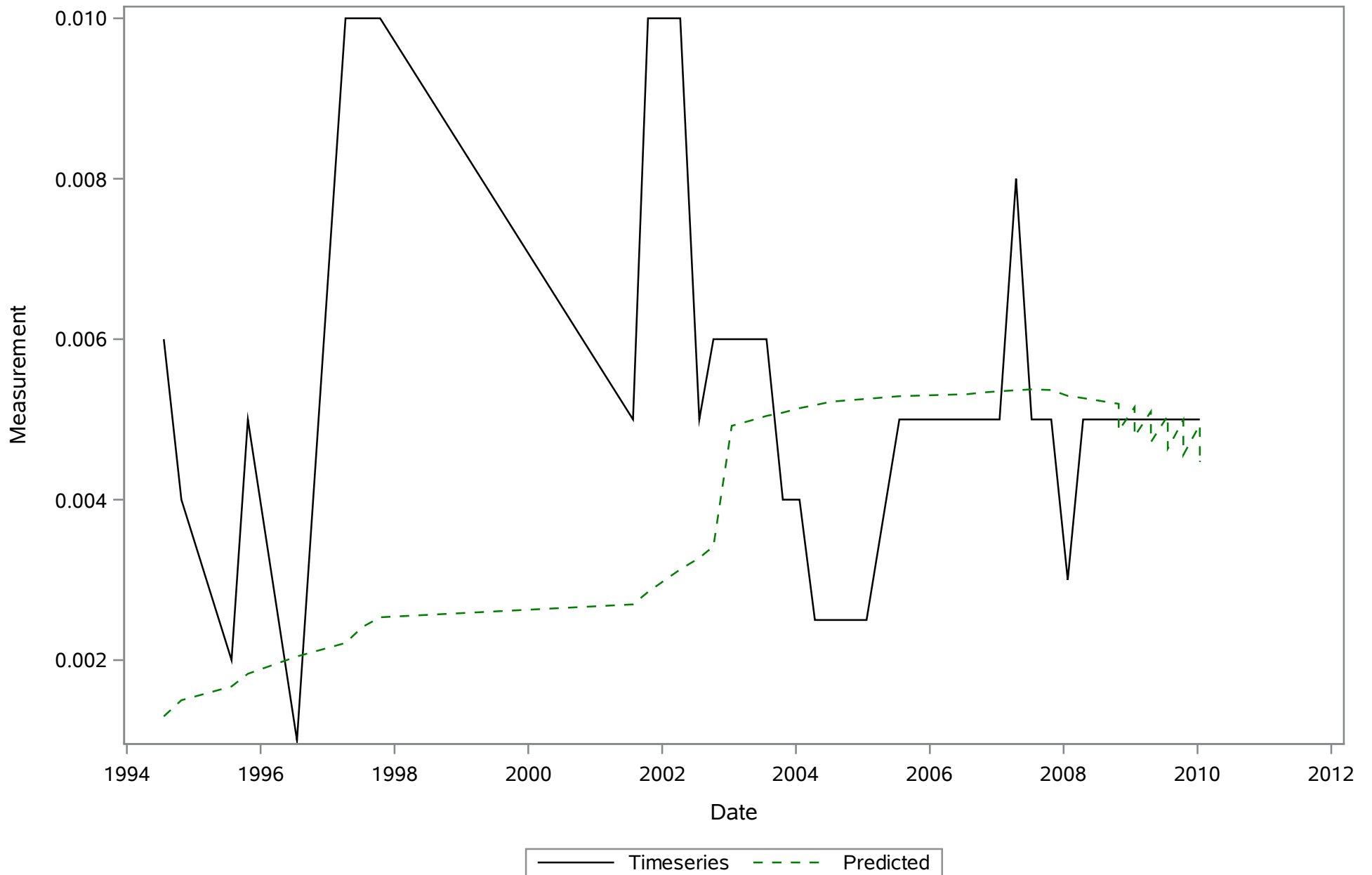
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



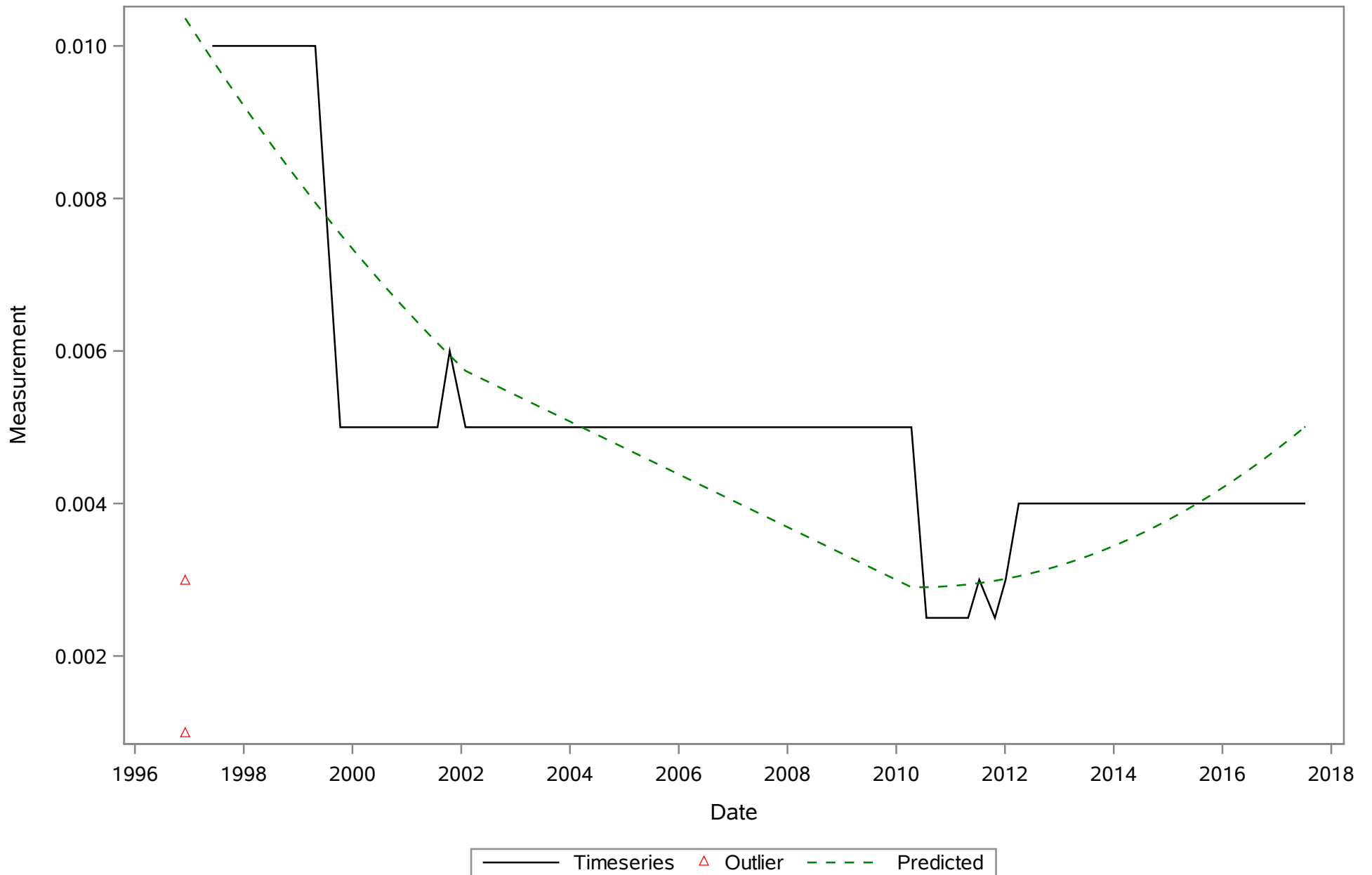
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Total) mg/L



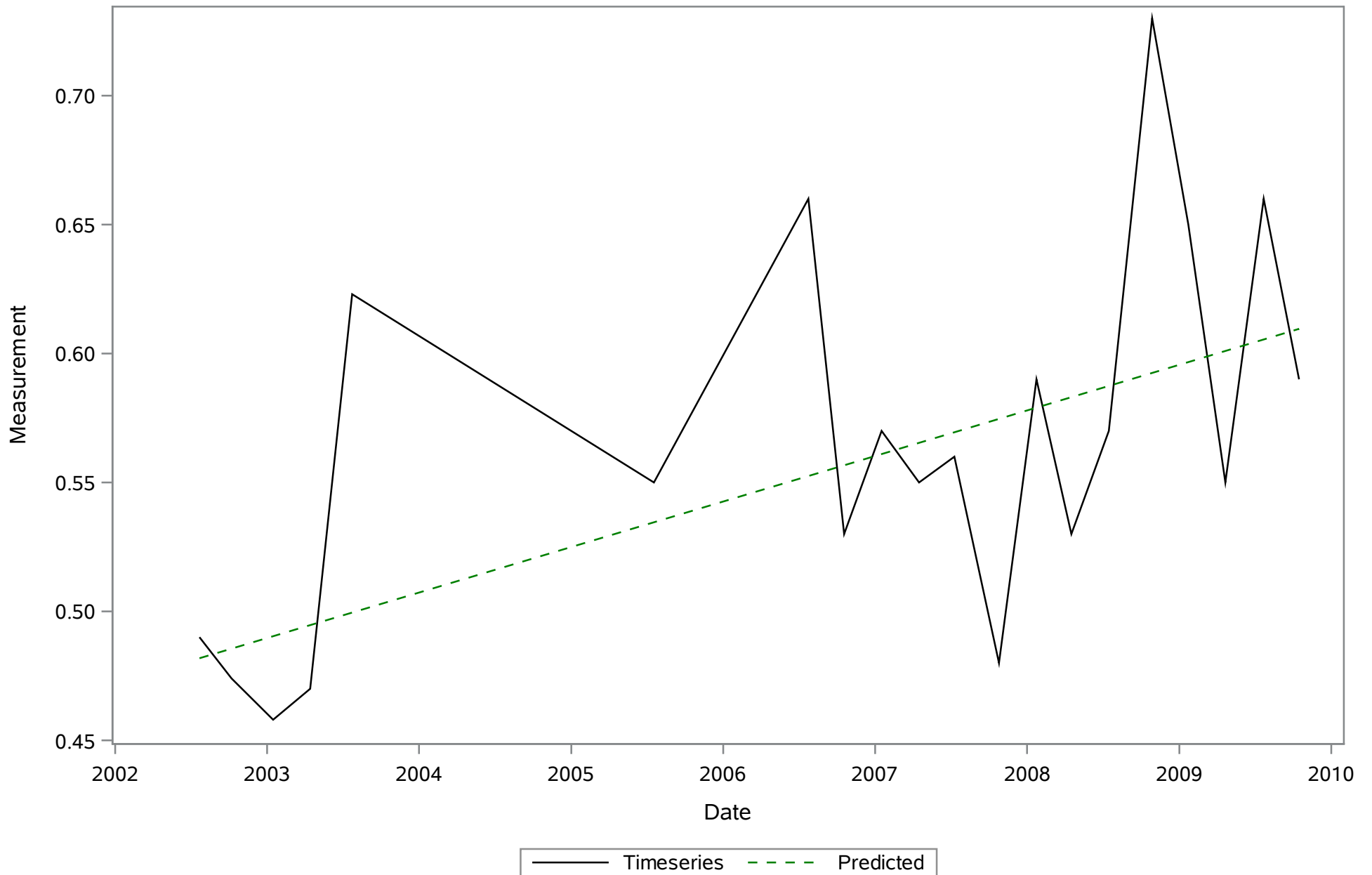
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Dissolved) mg/L



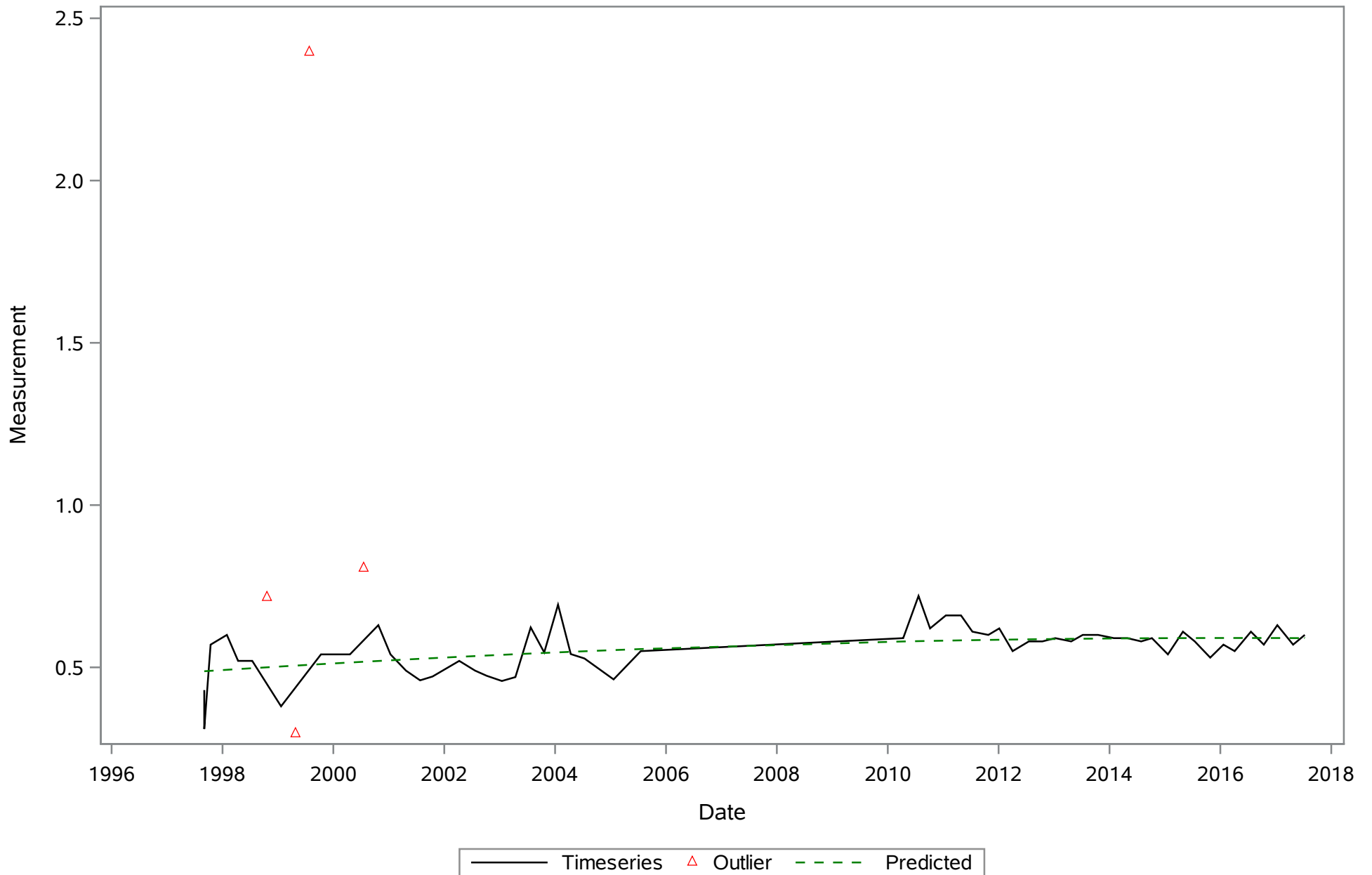
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Total) mg/L



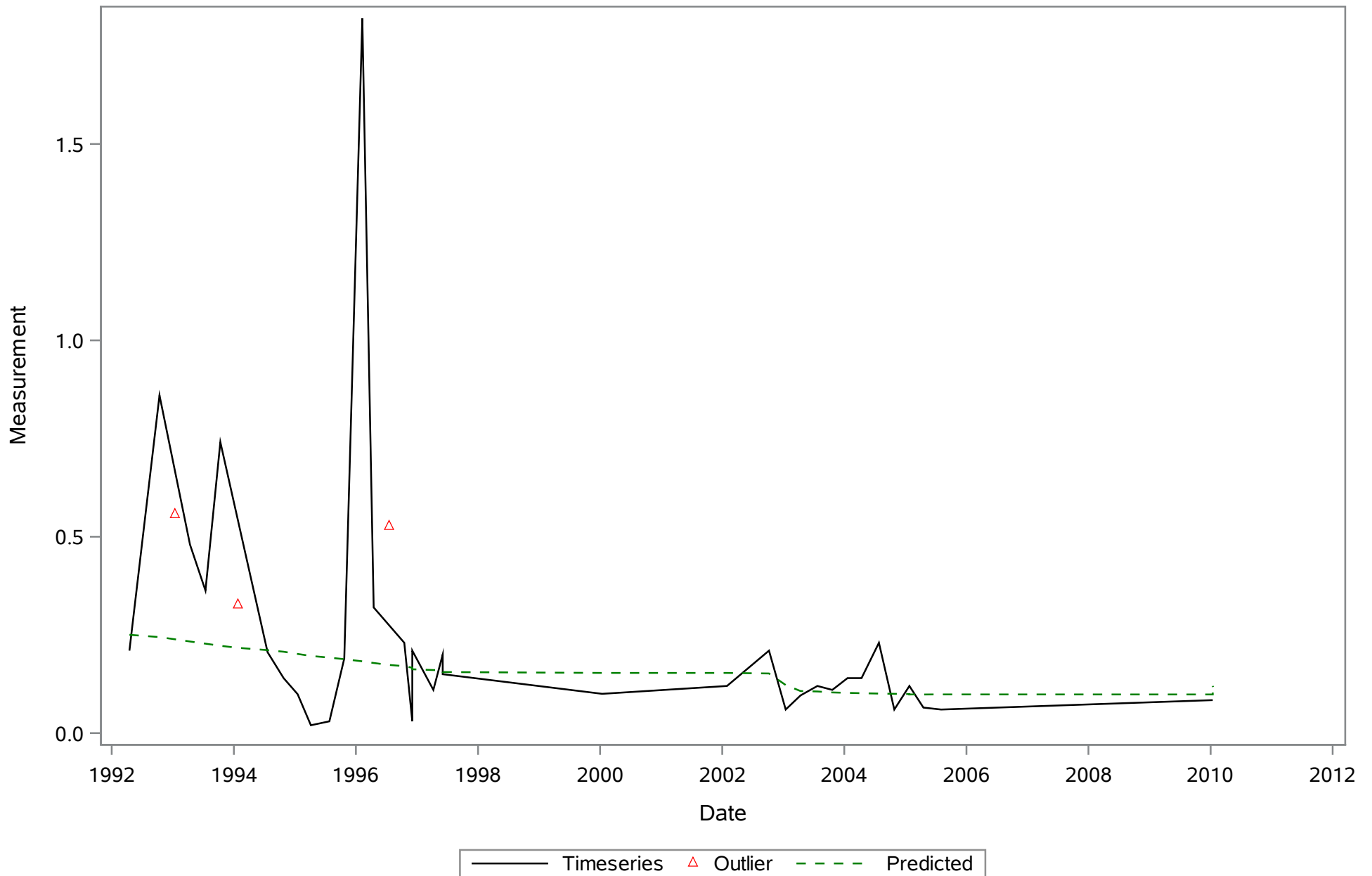
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Dissolved) mg/L



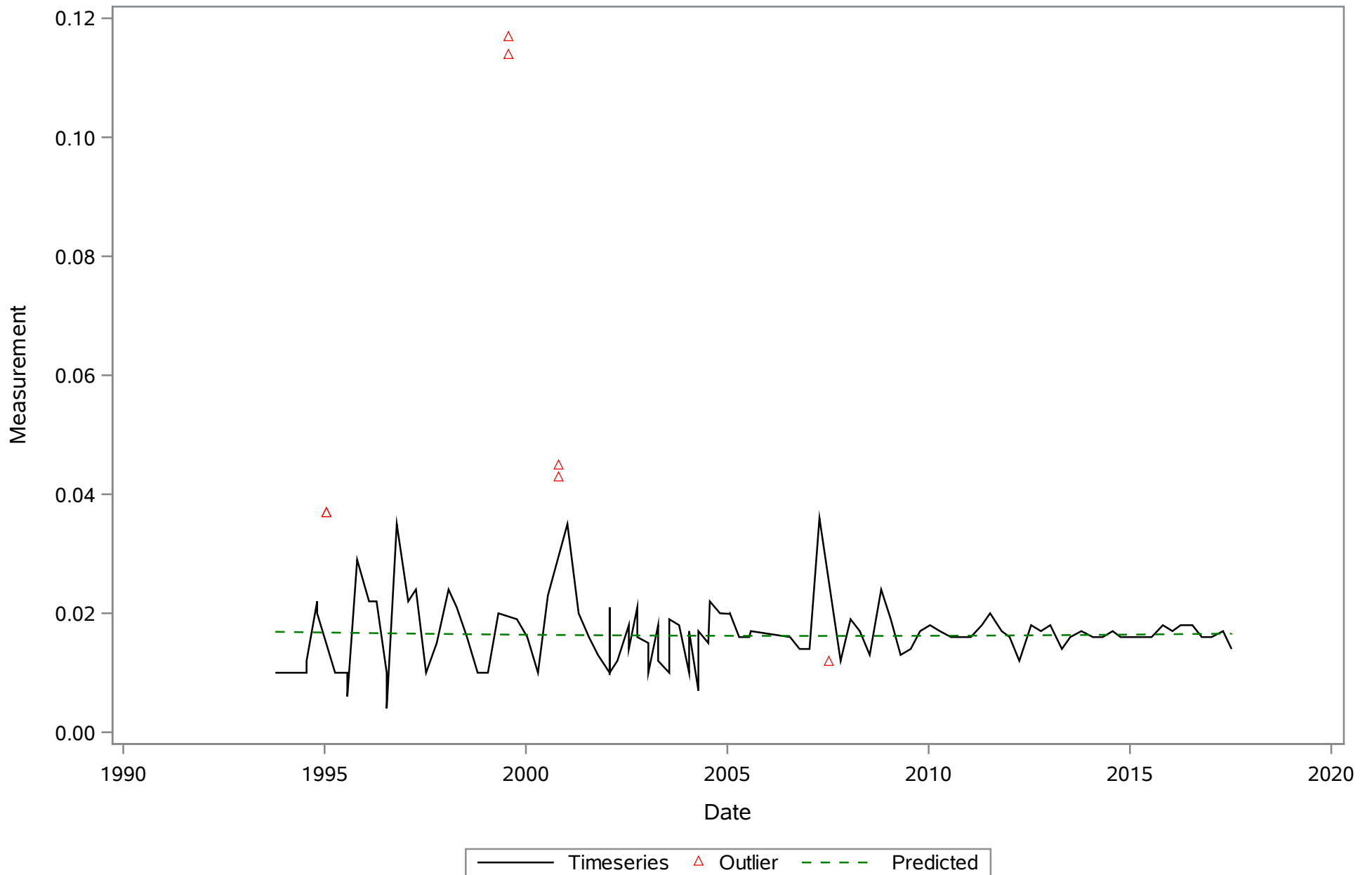
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total Kjeldahl (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Orthophosphate (P) (Dissolved) mg/L

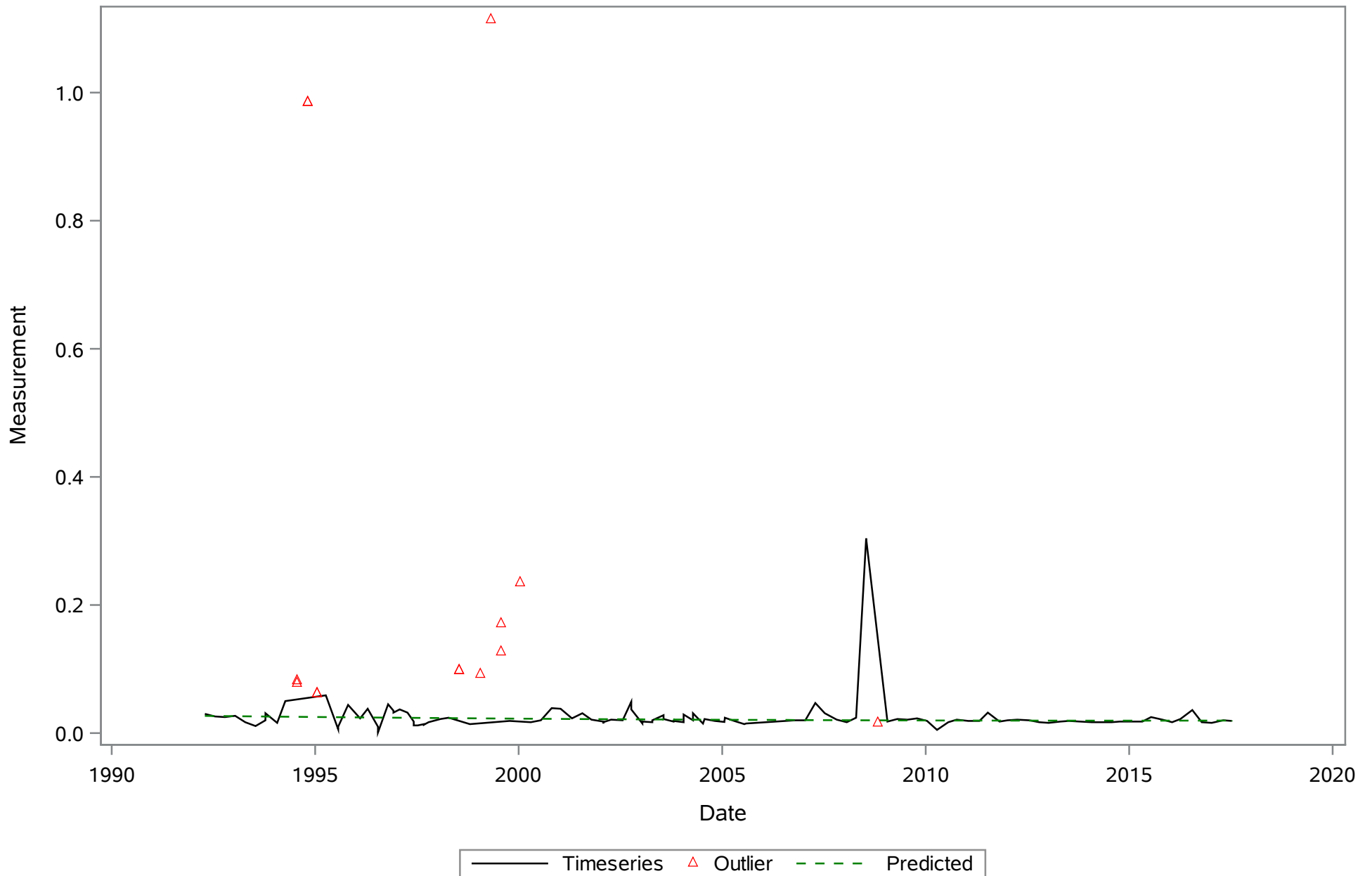


Chassahowitzka River - Fixed Station

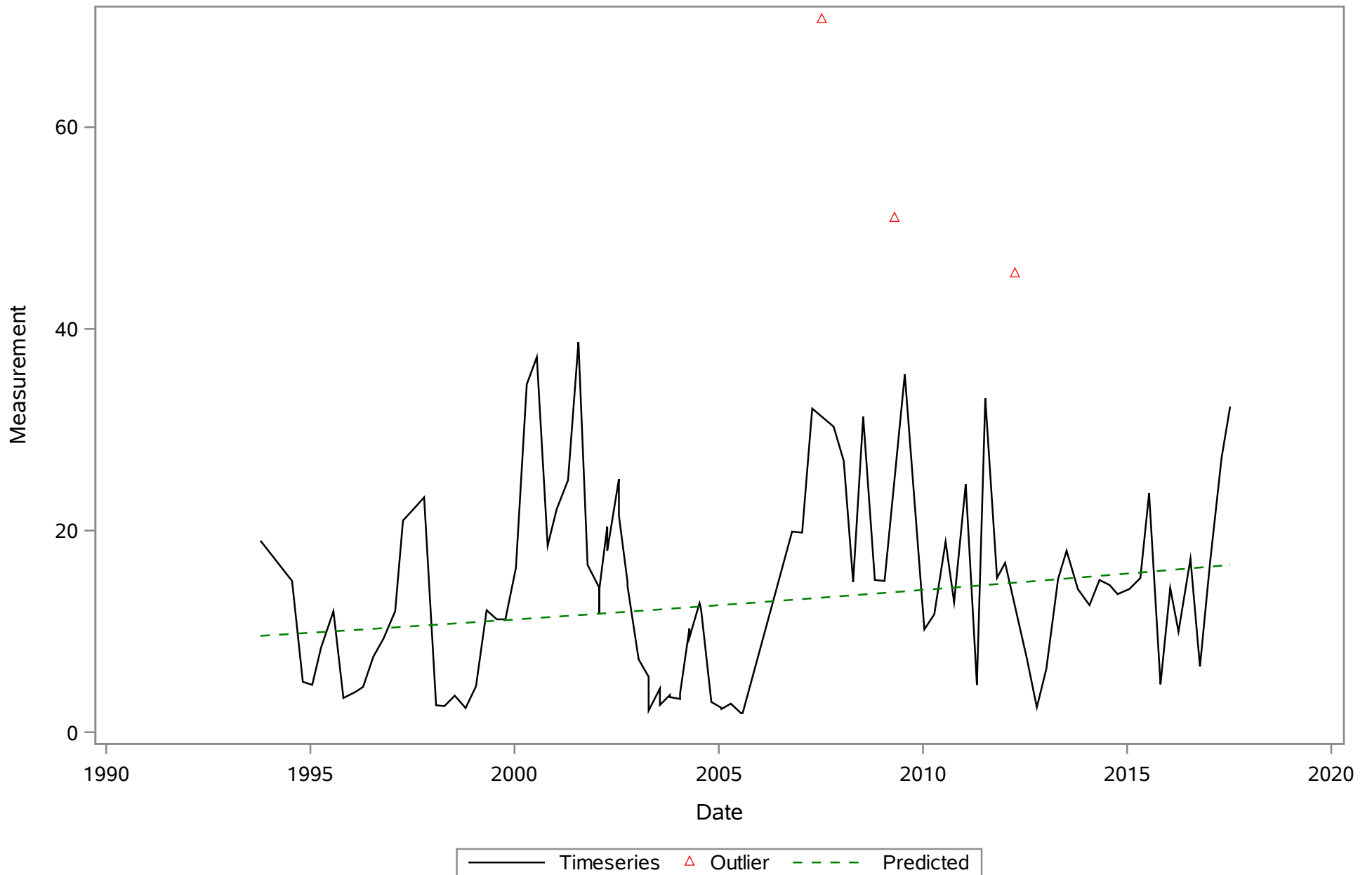
Source: Springs Data

Chassahowitzka Main Spring

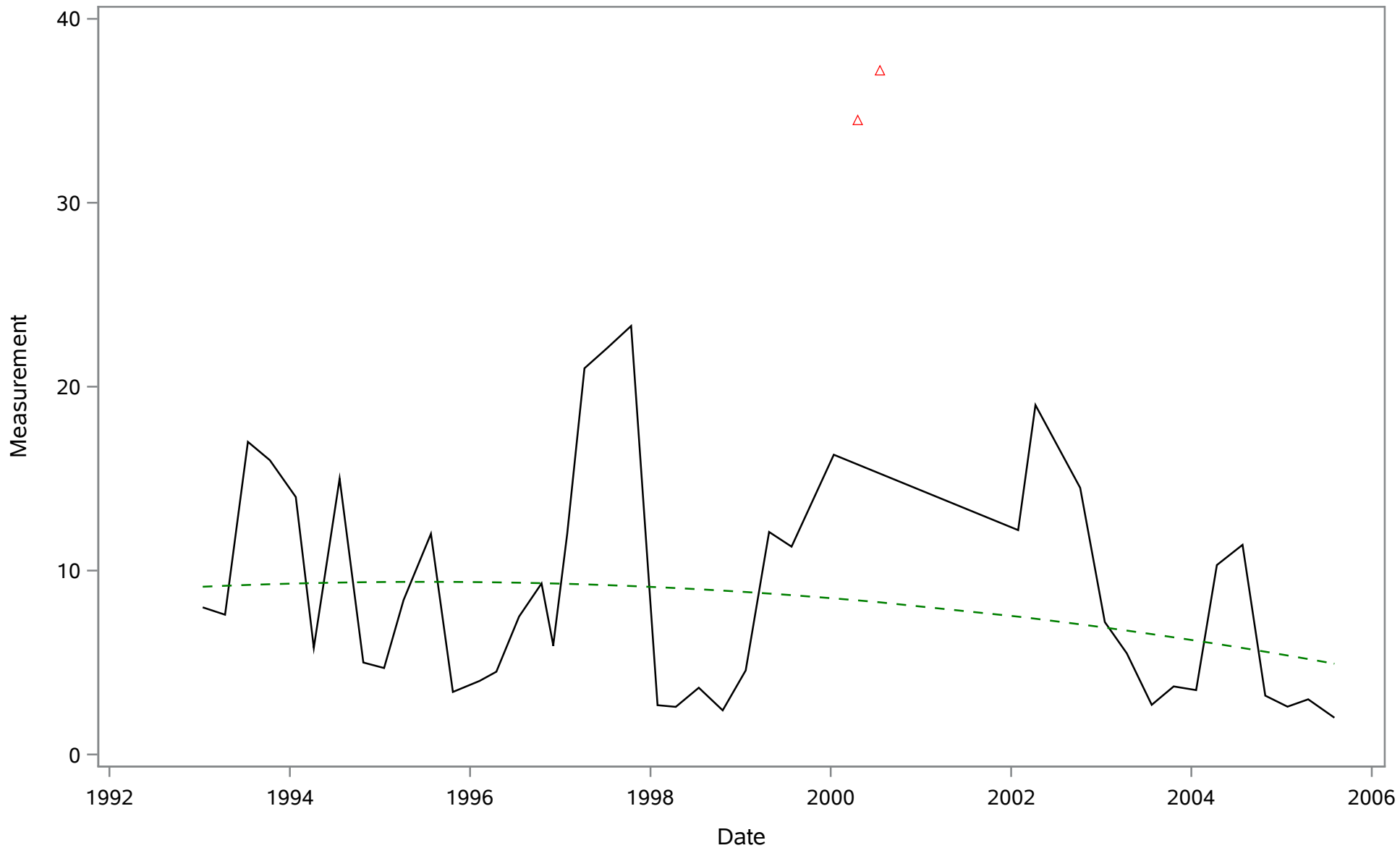
Phosphorus- Total (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Dissolved) mg/L

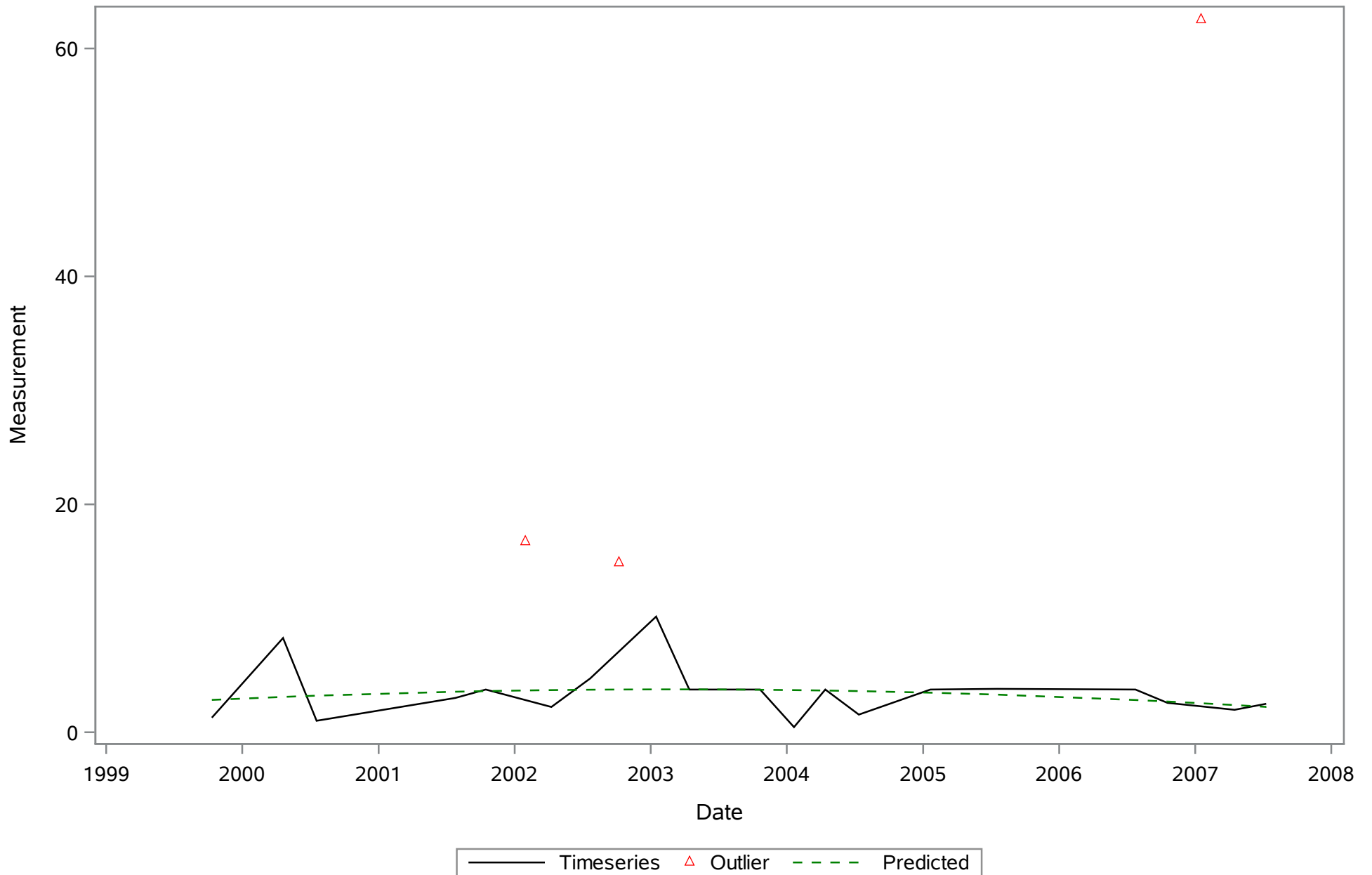


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Total) mg/L

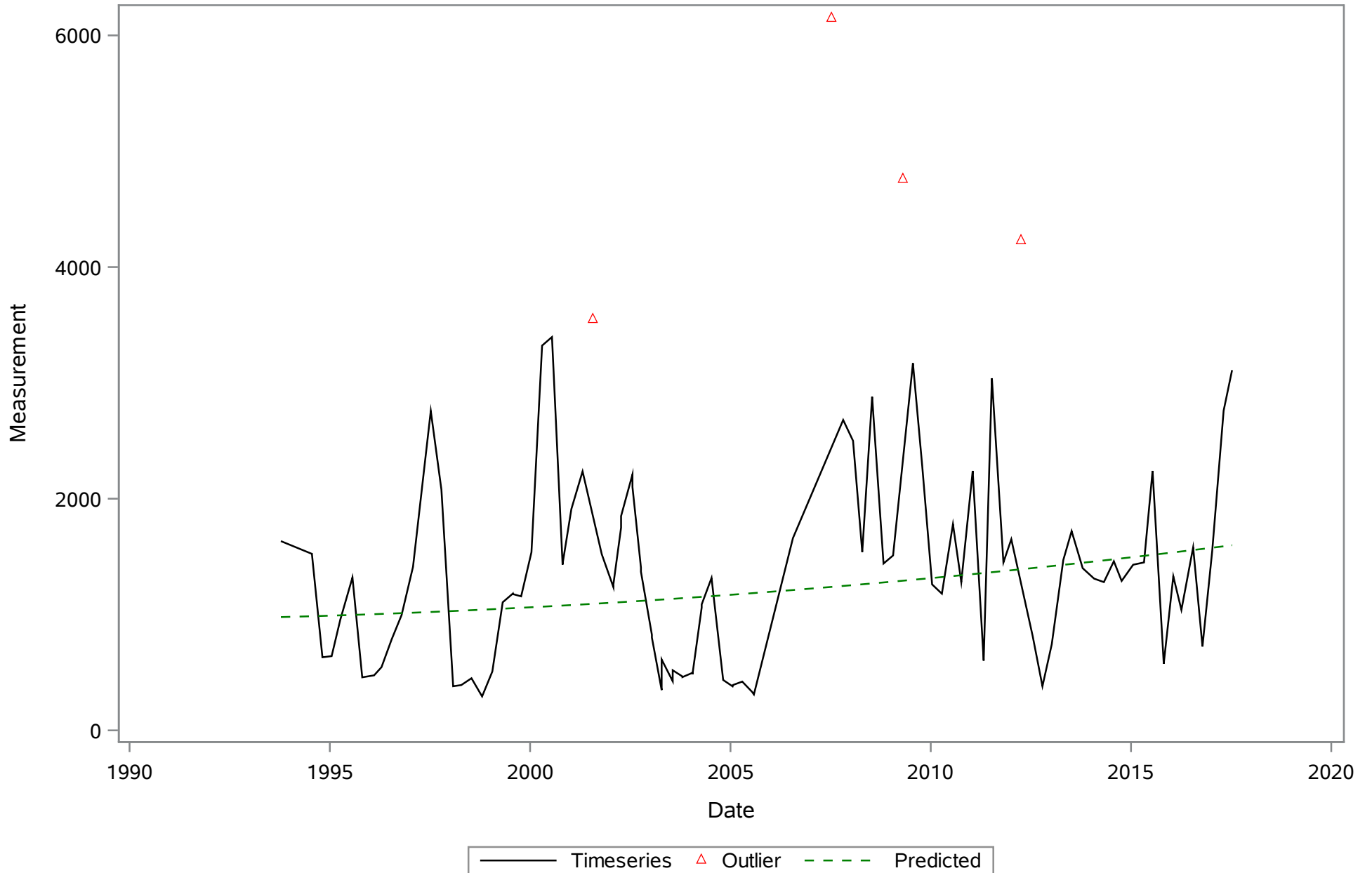


— Timeseries △ Outlier - - - Predicted

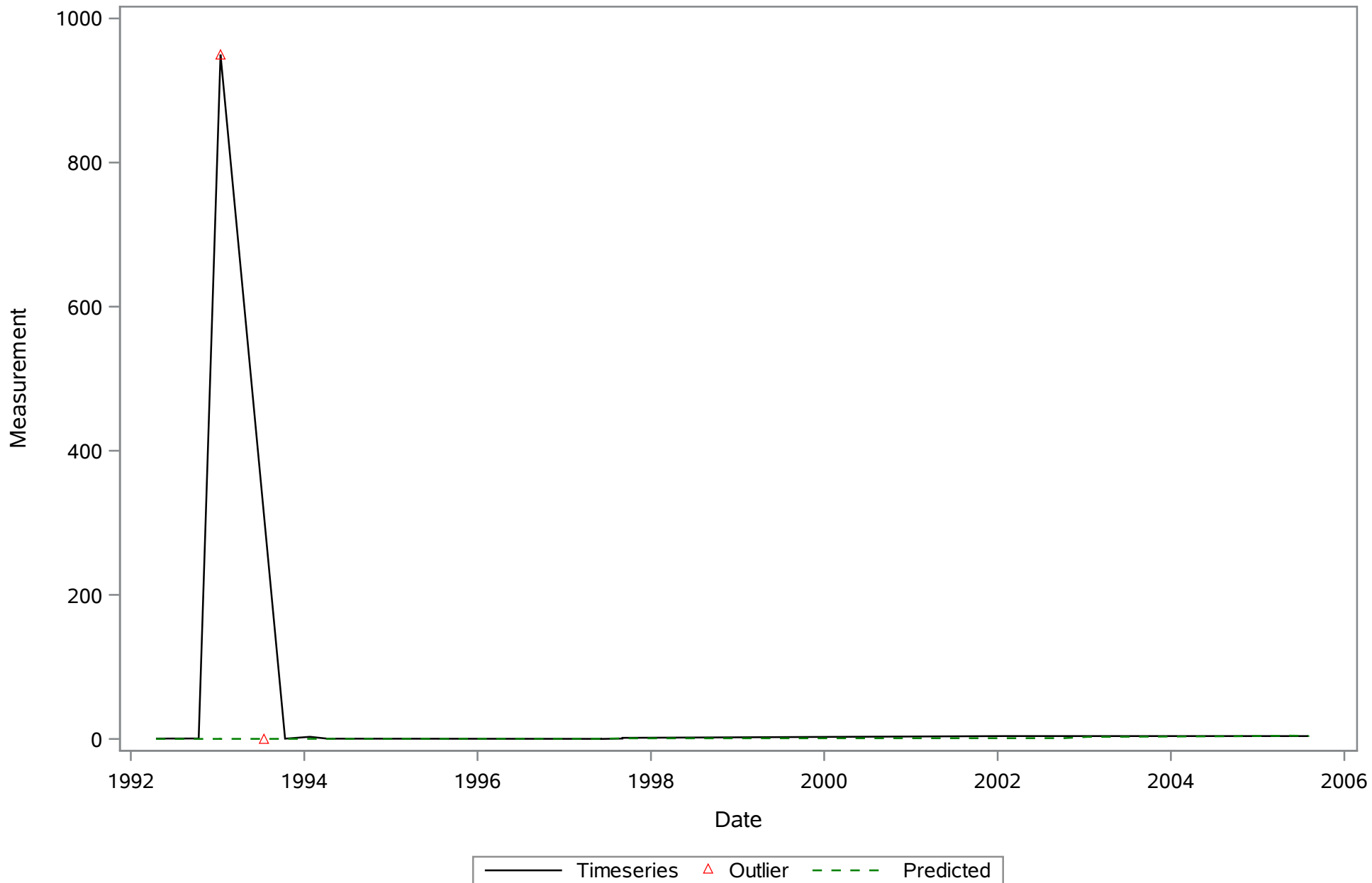
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Purge Volume (Total) Gallons



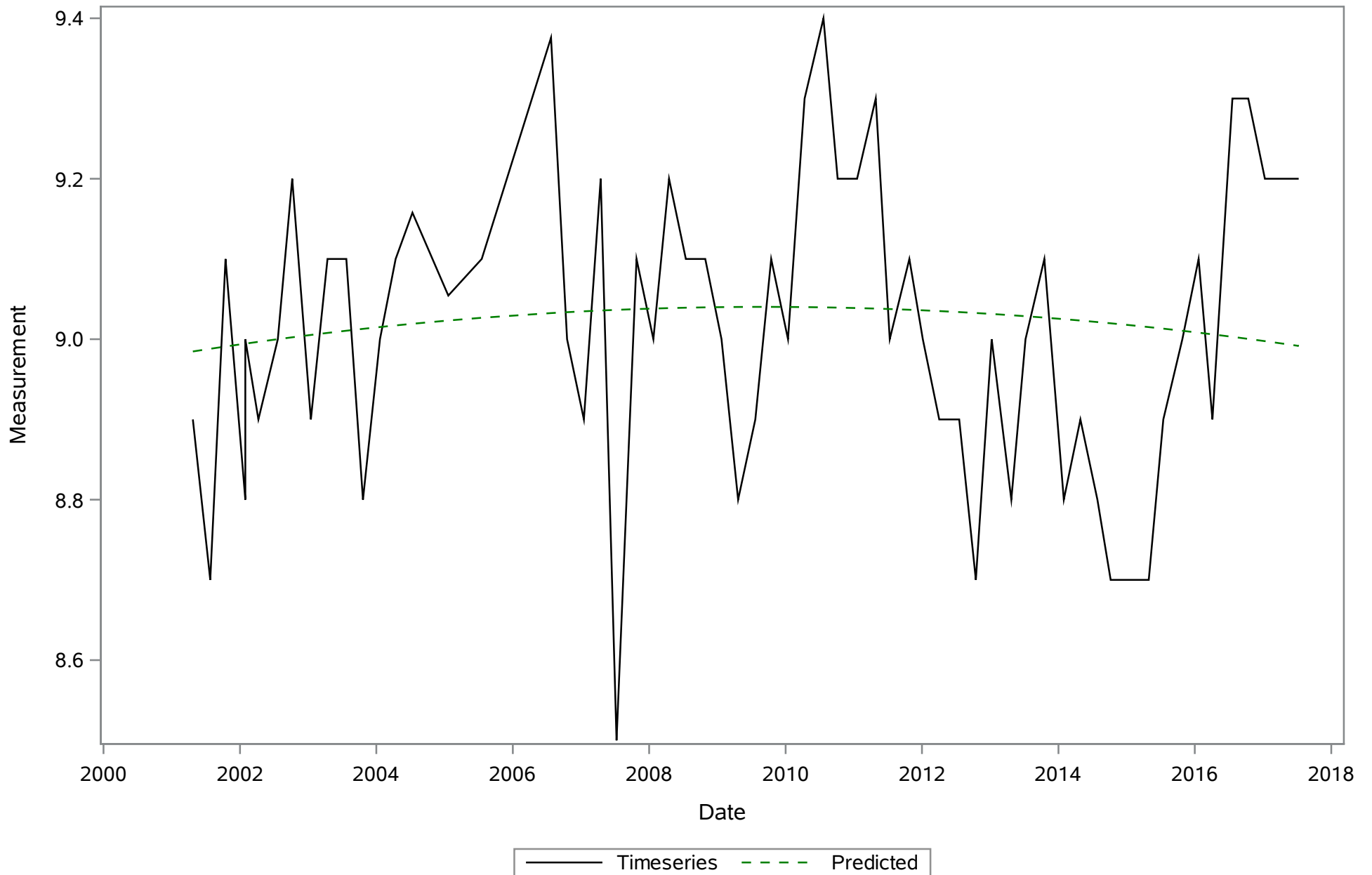
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Filterable (TDS) (Dissolved) mg/L



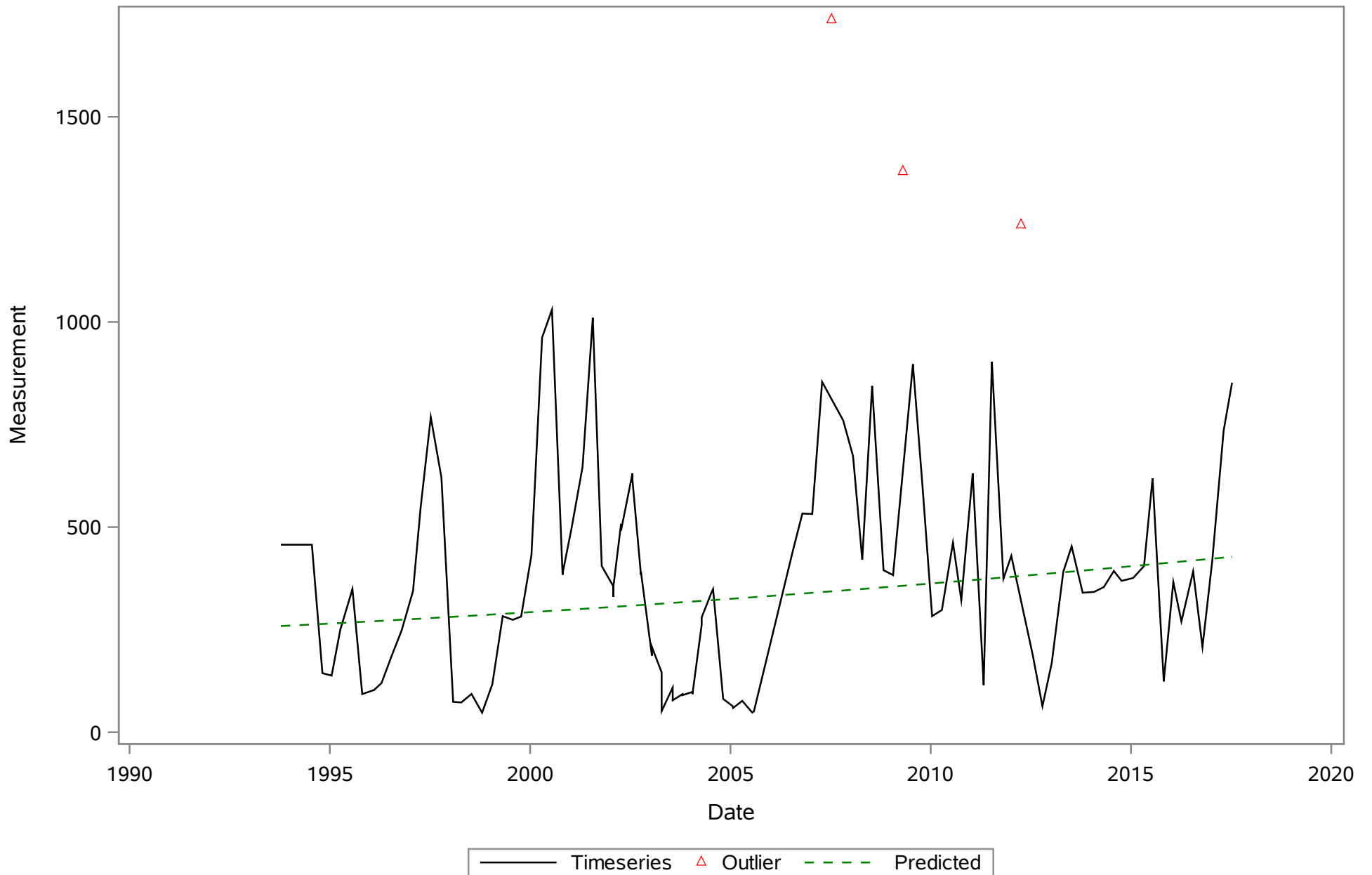
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Nonfilterable (TSS) (Total) mg/L



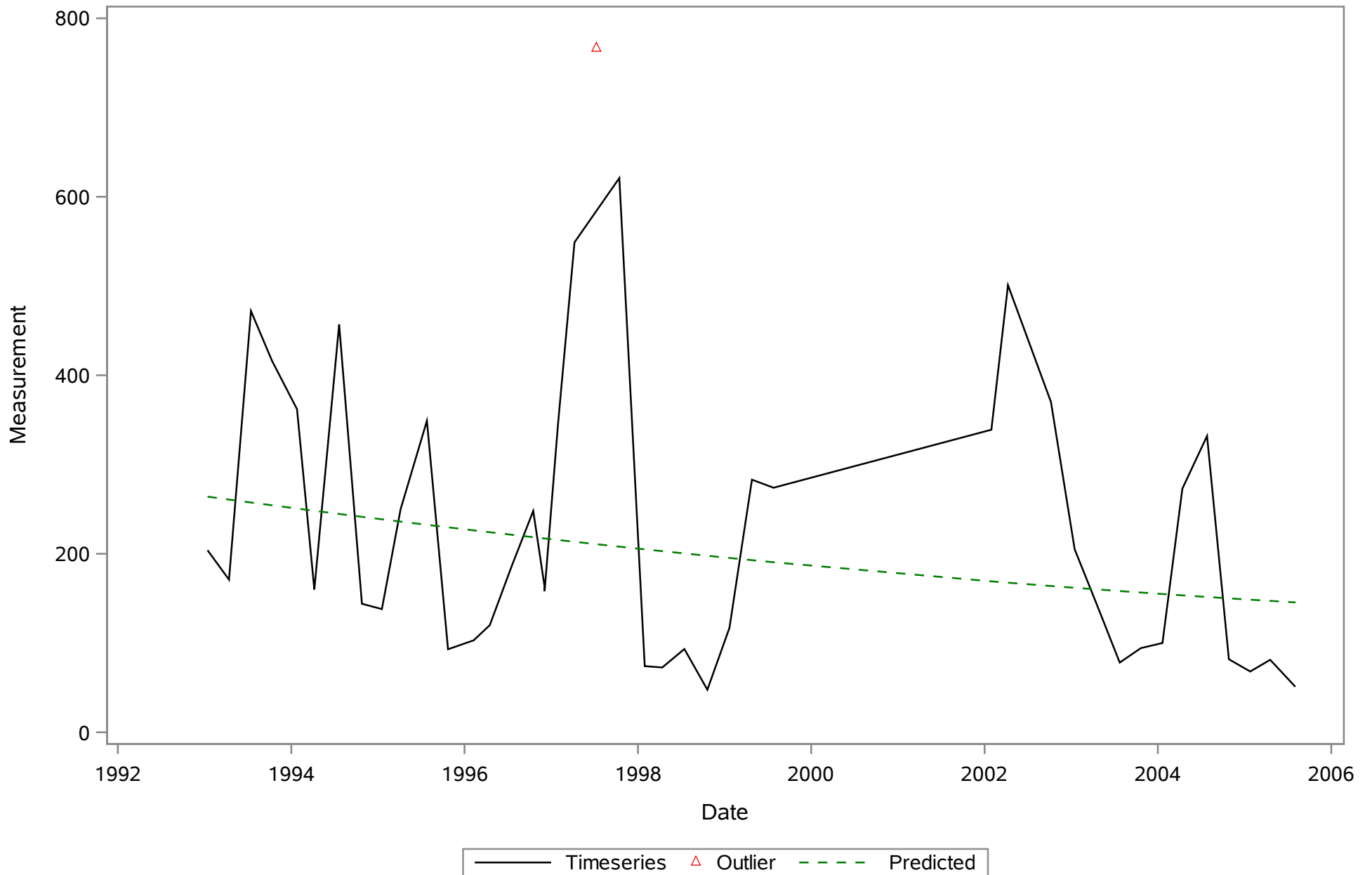
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Silica- Dissolved (Dissolved) mg/L



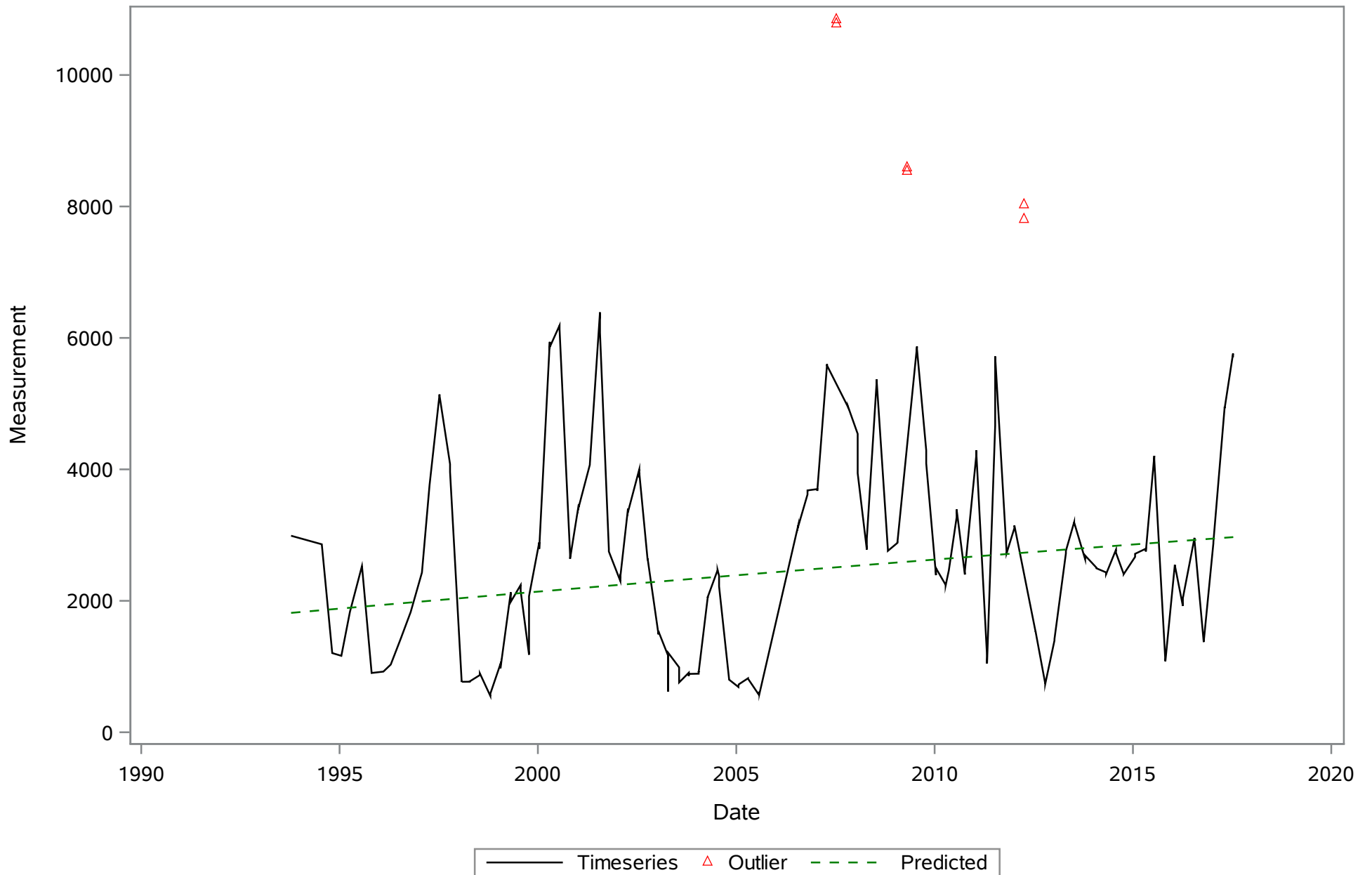
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Dissolved) mg/L



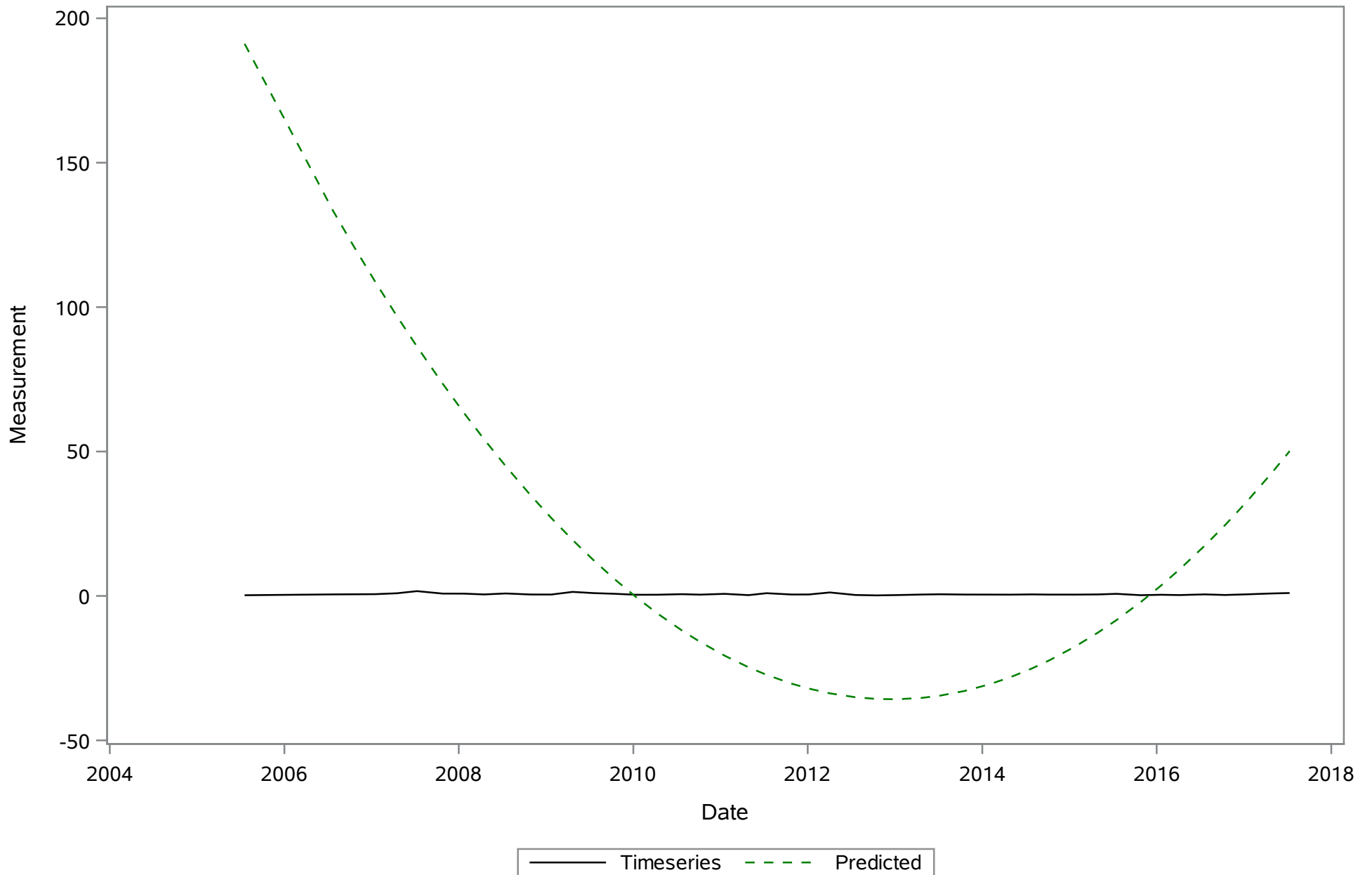
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Total) mg/L



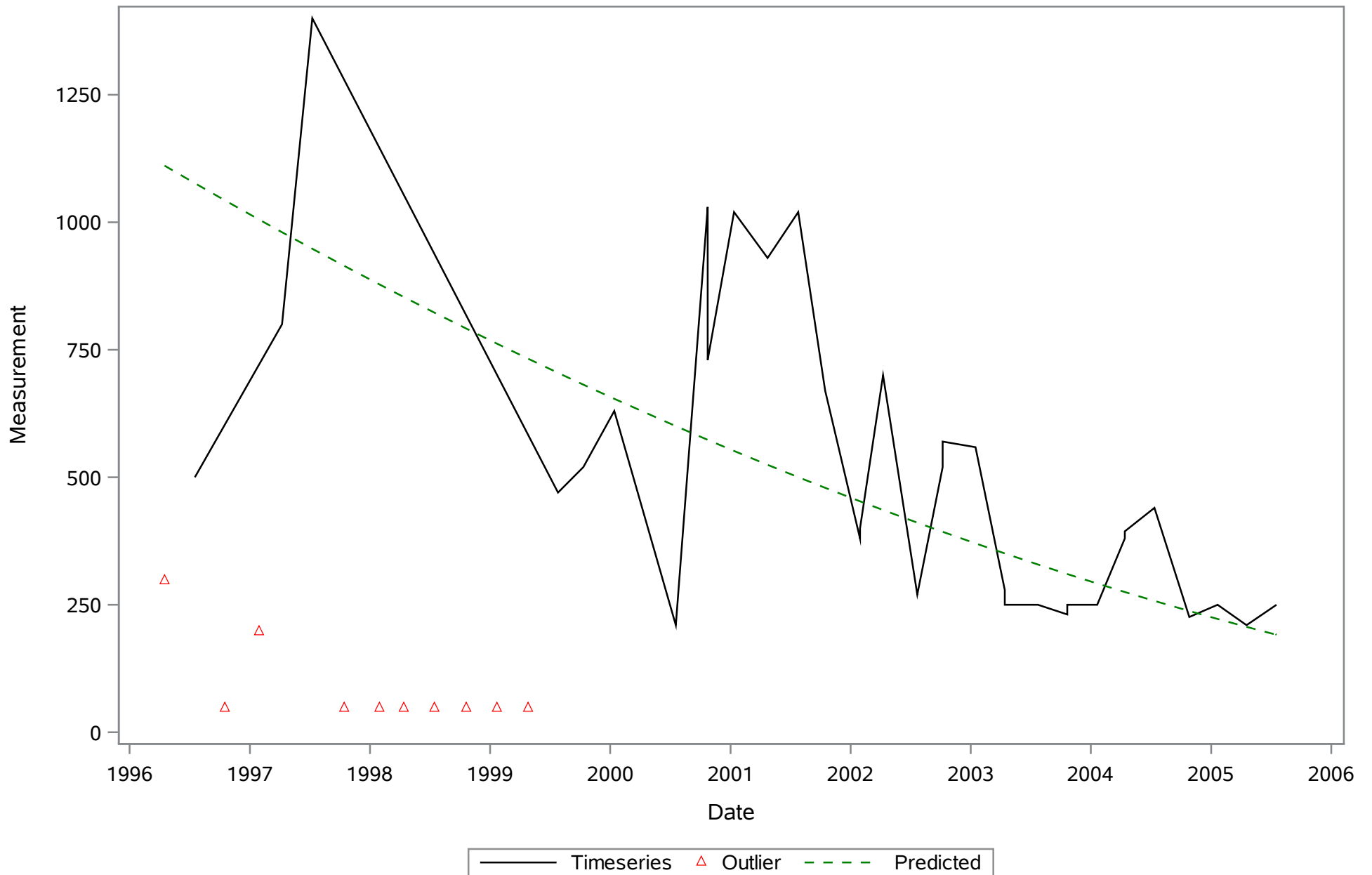
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Specific Conductance (Total) uS/cm



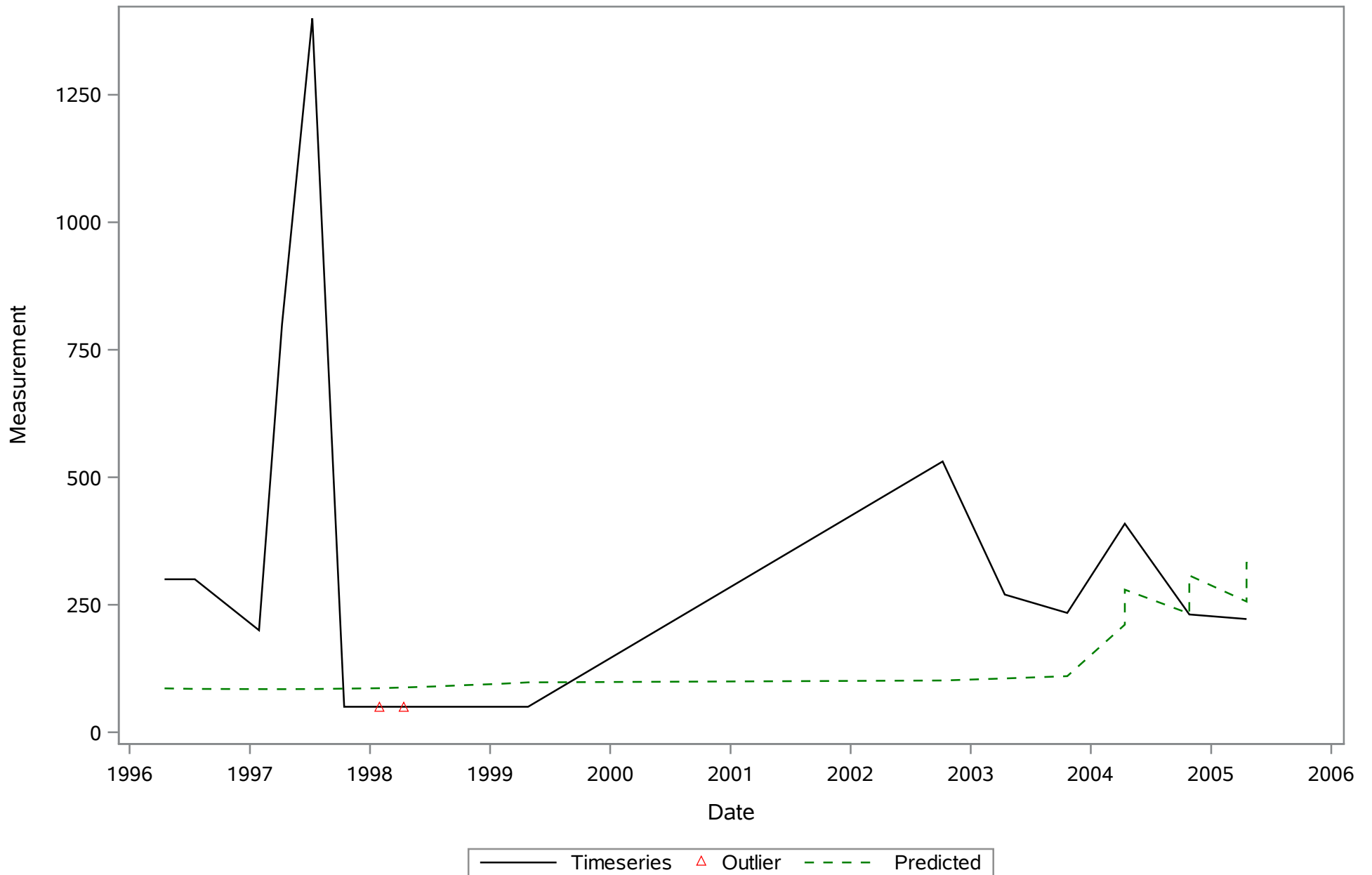
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) mg/L



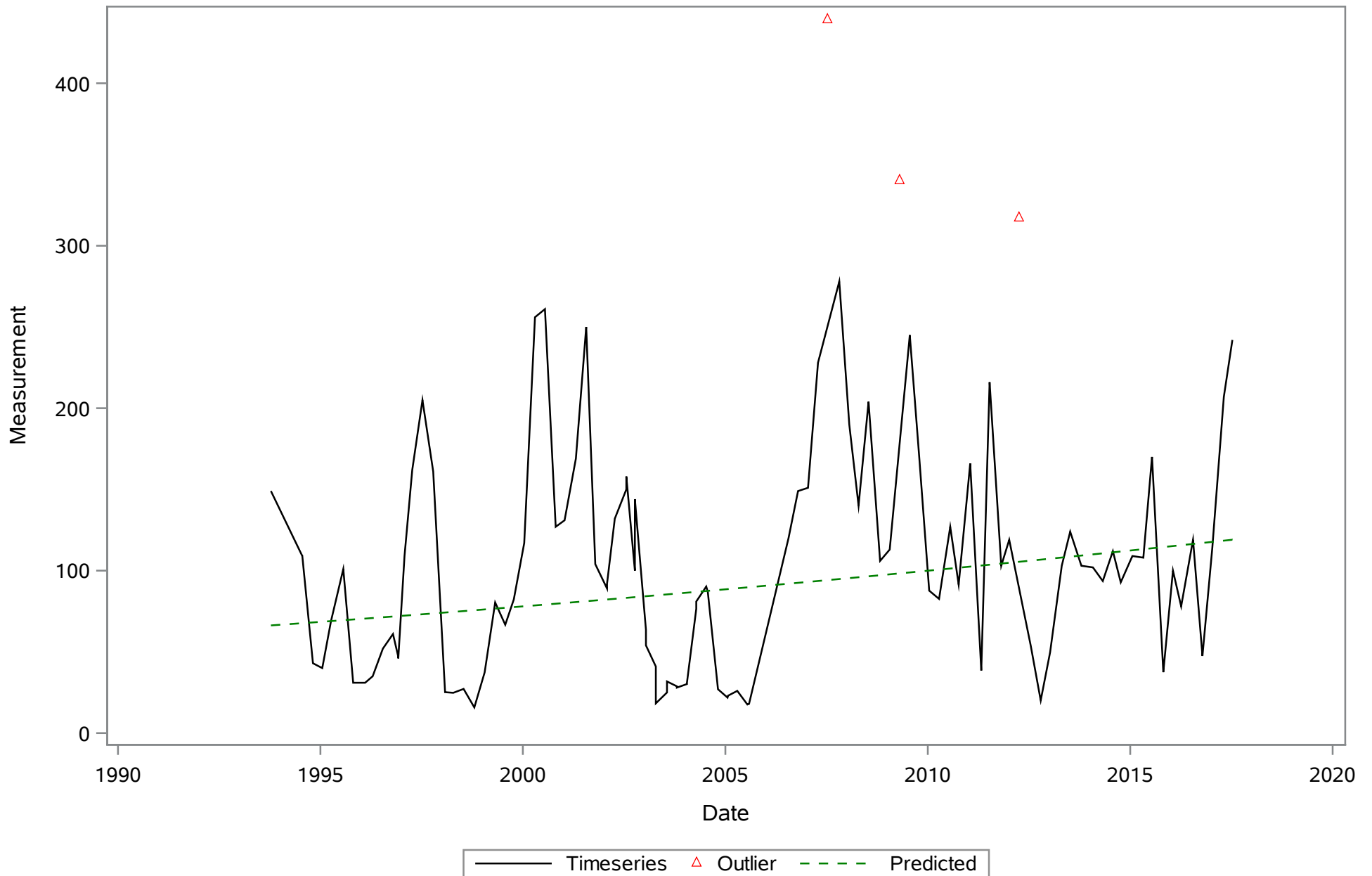
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) ug/L



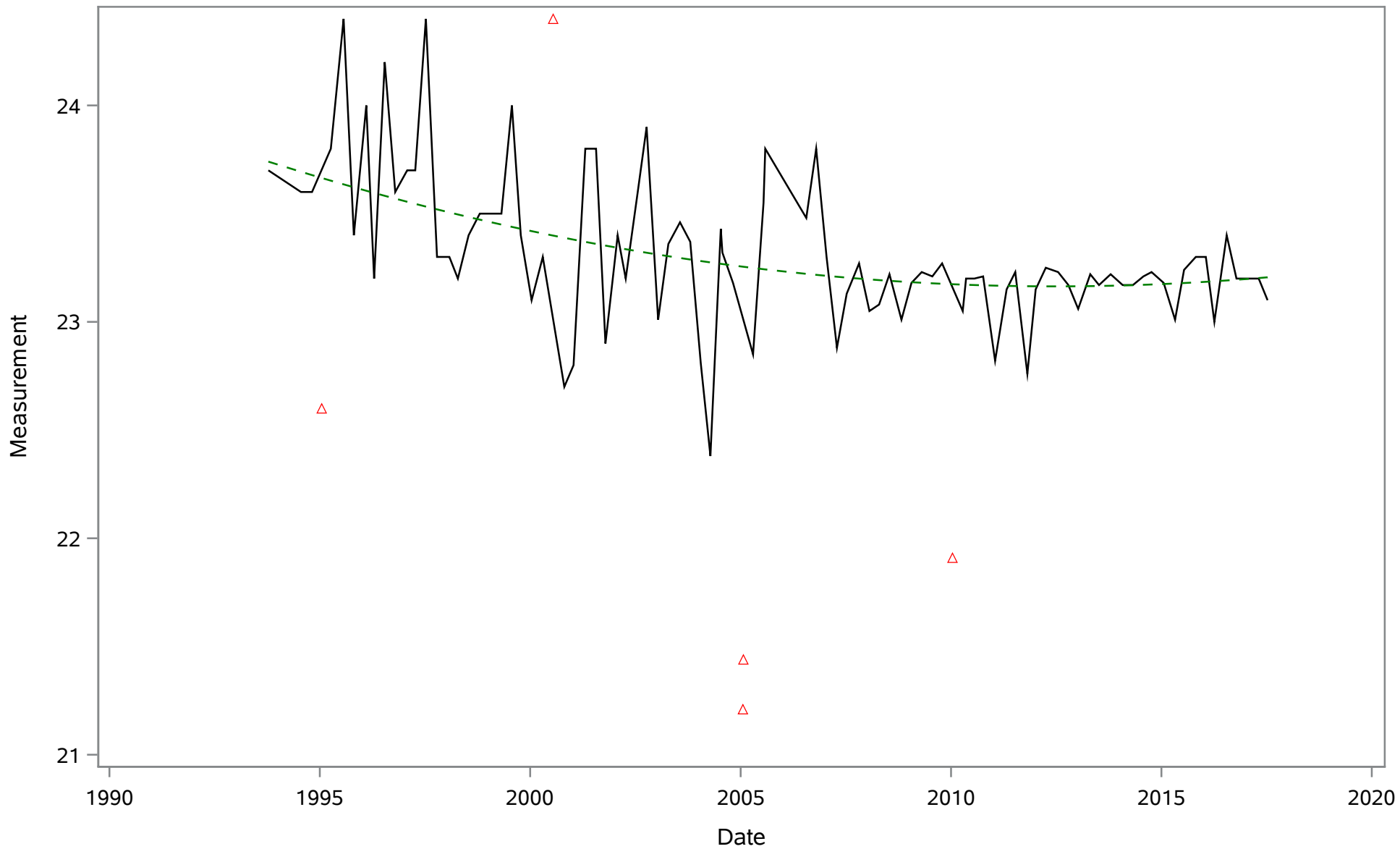
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Total) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sulfate (Dissolved) mg/L

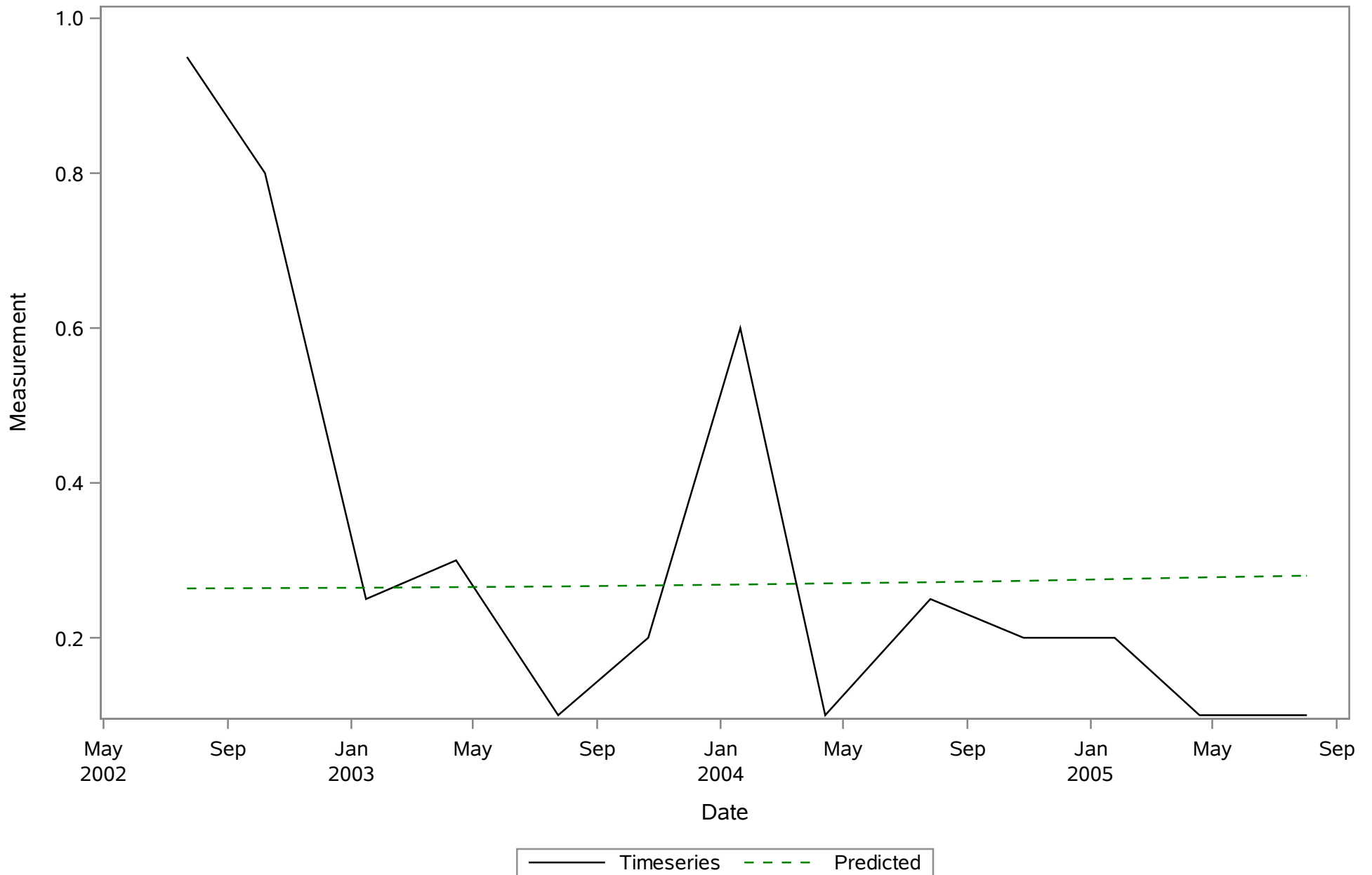


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Temperature (Total) Deg. C

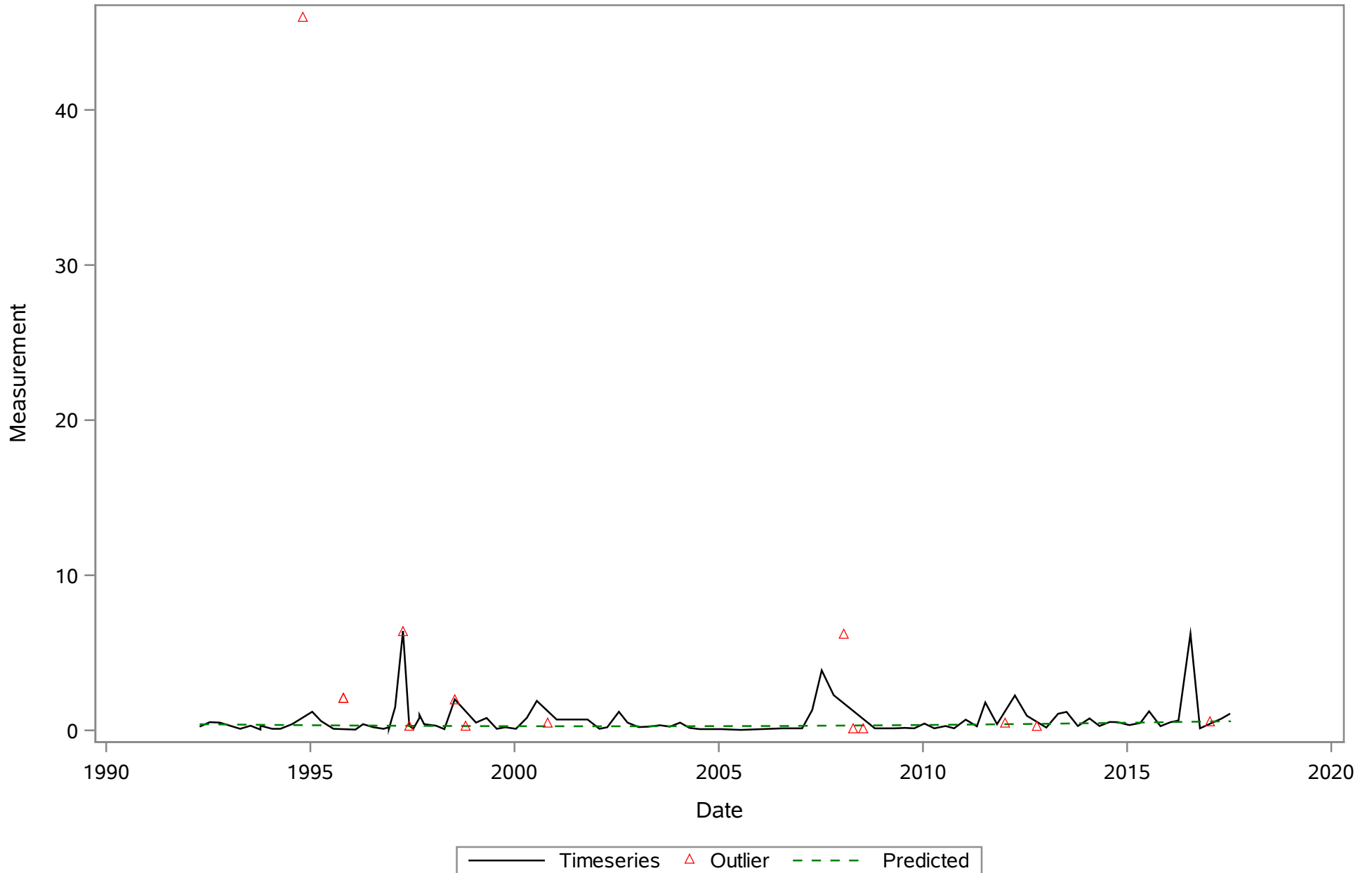


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Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Turbidity (Total) FTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Turbidity (Total) NTU

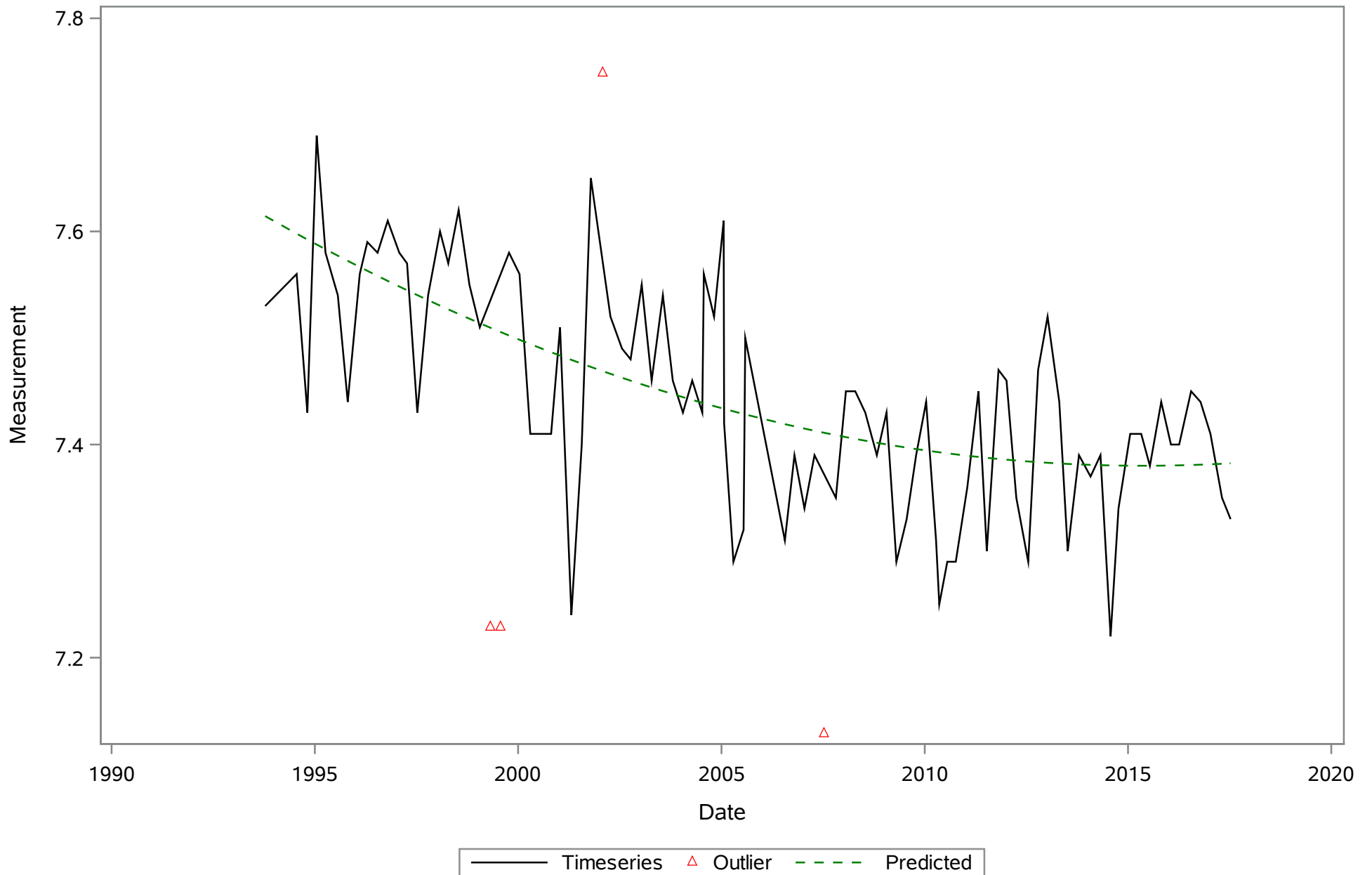


Chassahowitzka River - Fixed Station

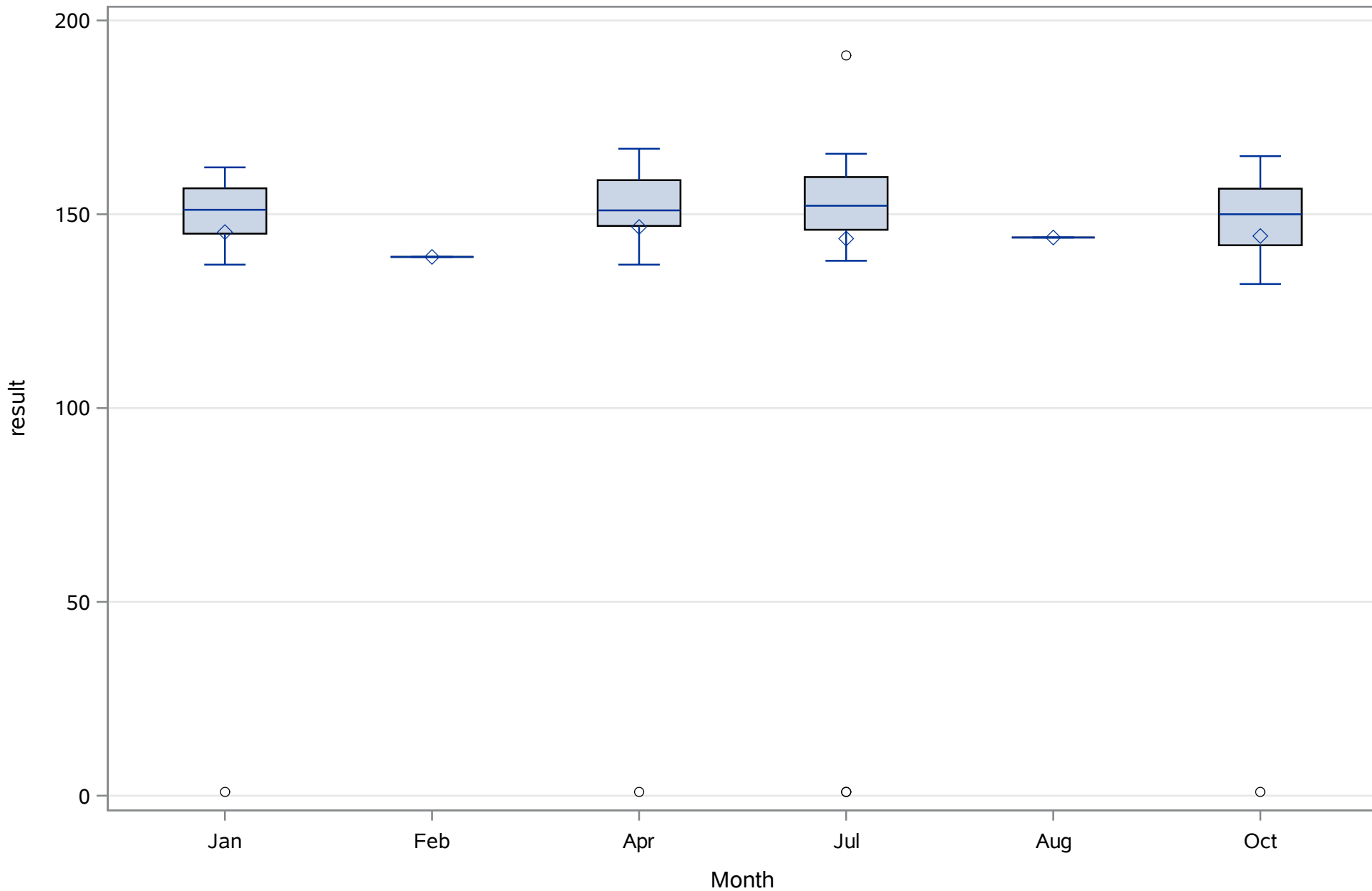
Source: Springs Data

Chassahowitzka Main Spring

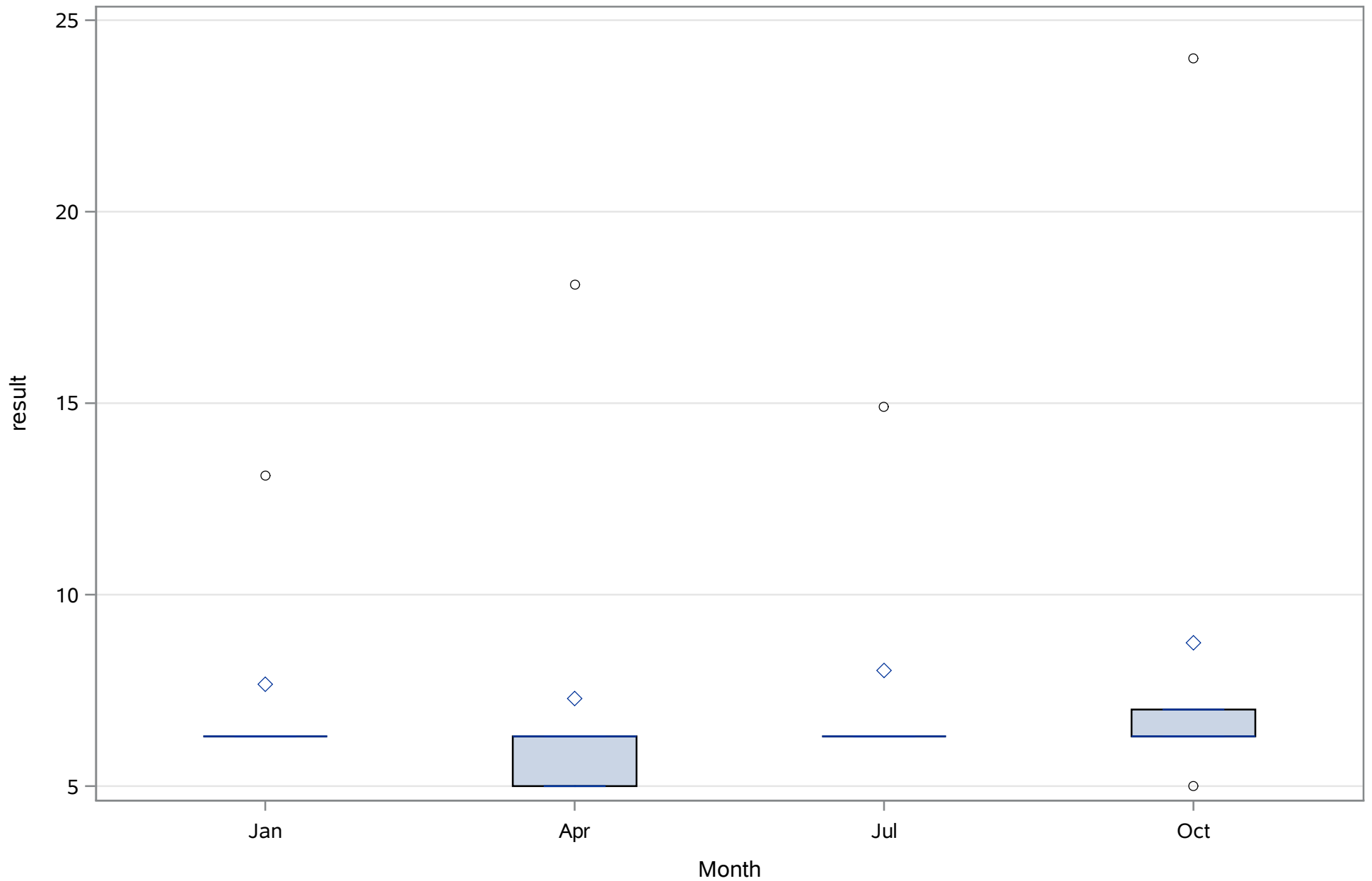
pH (Total) SU



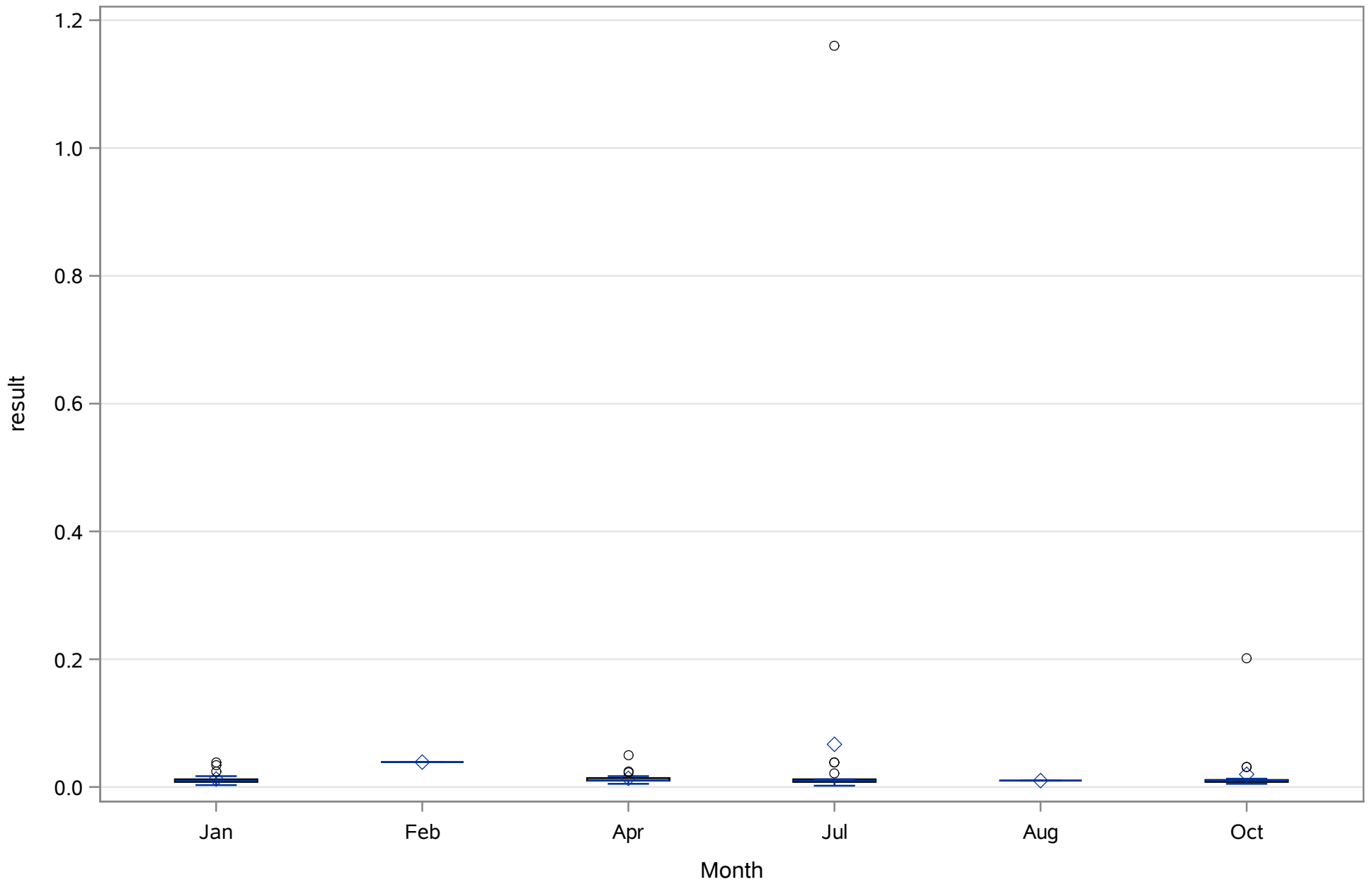
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Alkalinity (Total) mg/L



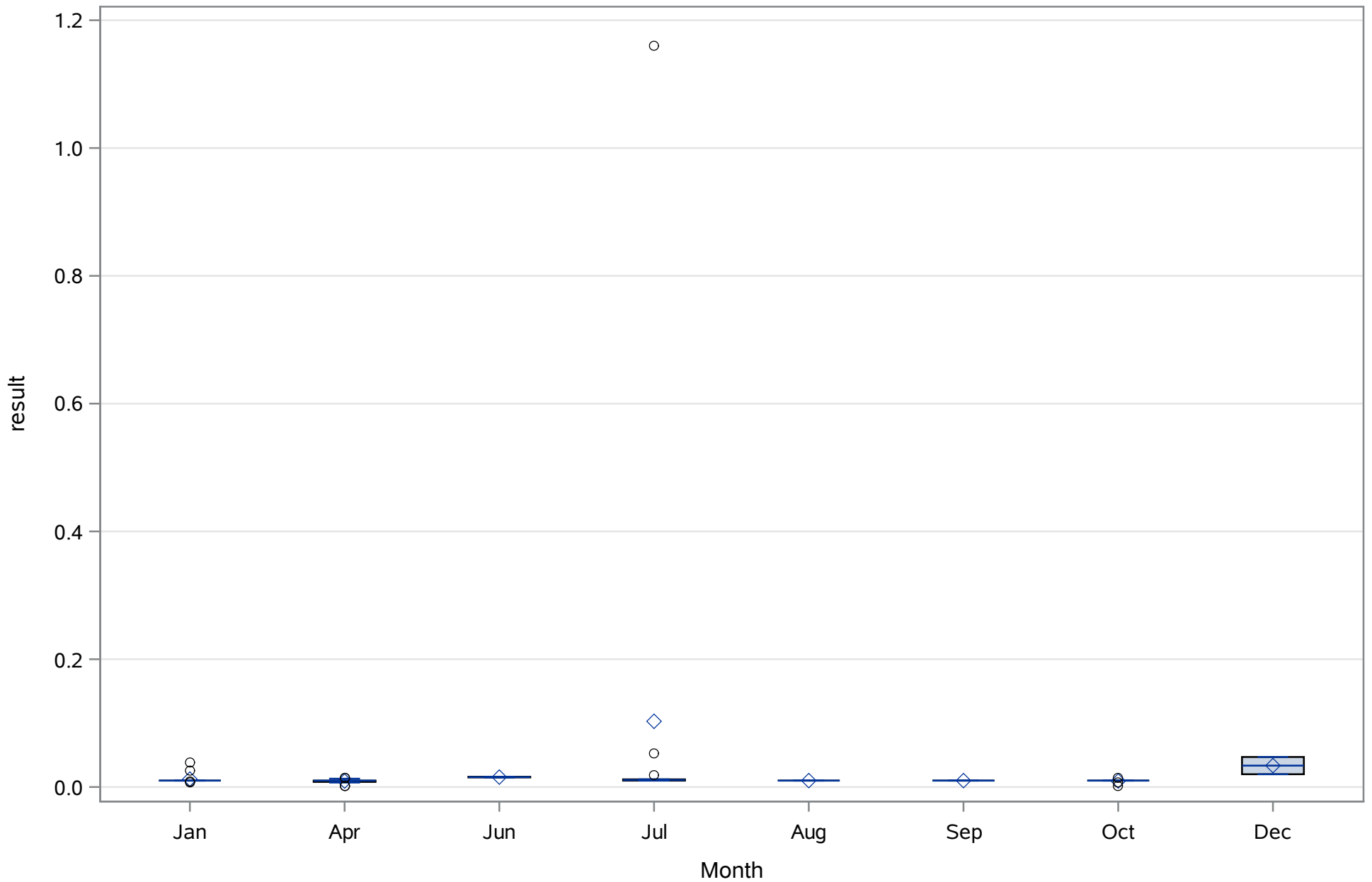
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Aluminum (Dissolved) ug/L



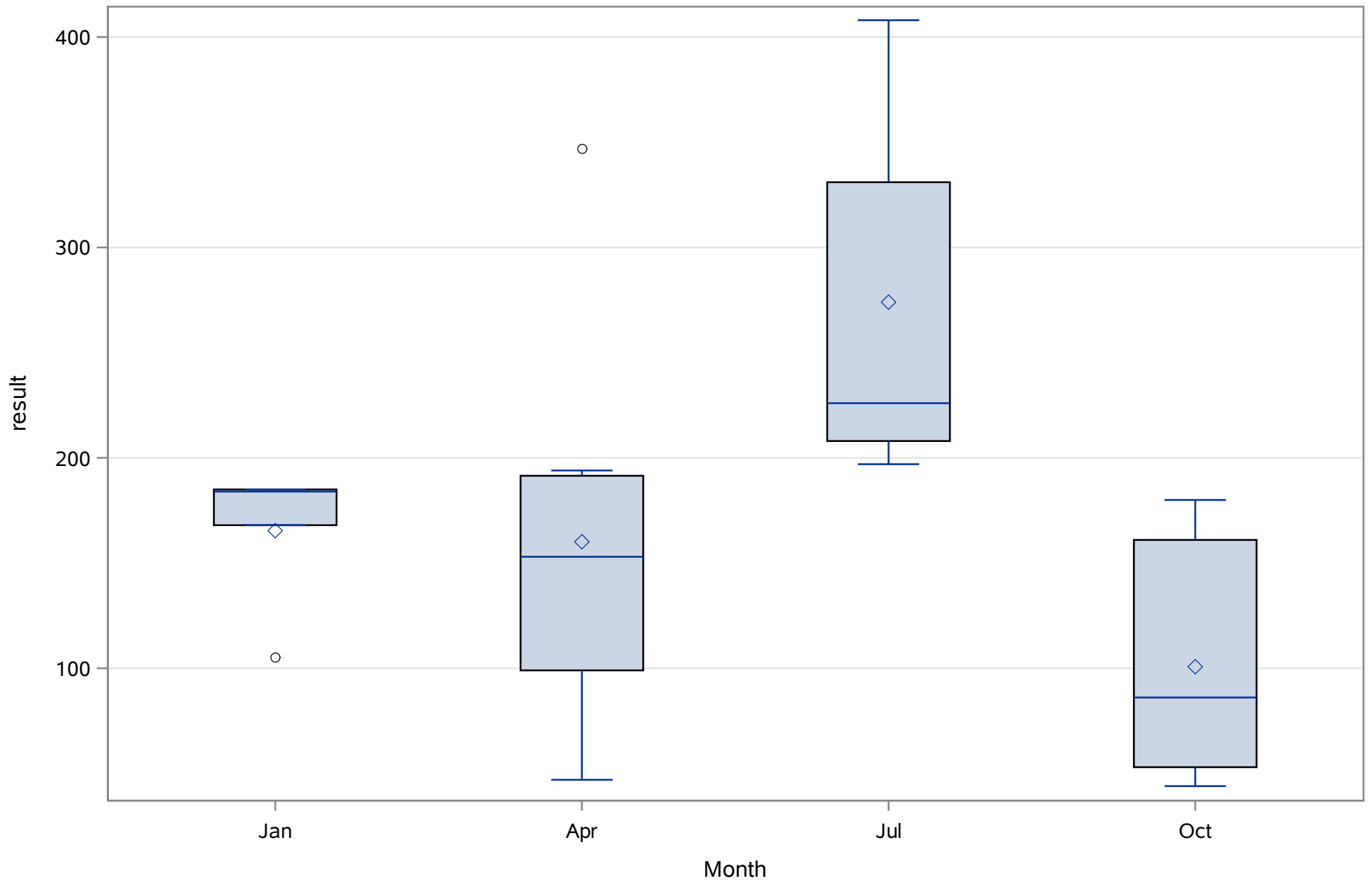
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Dissolved) mg/L



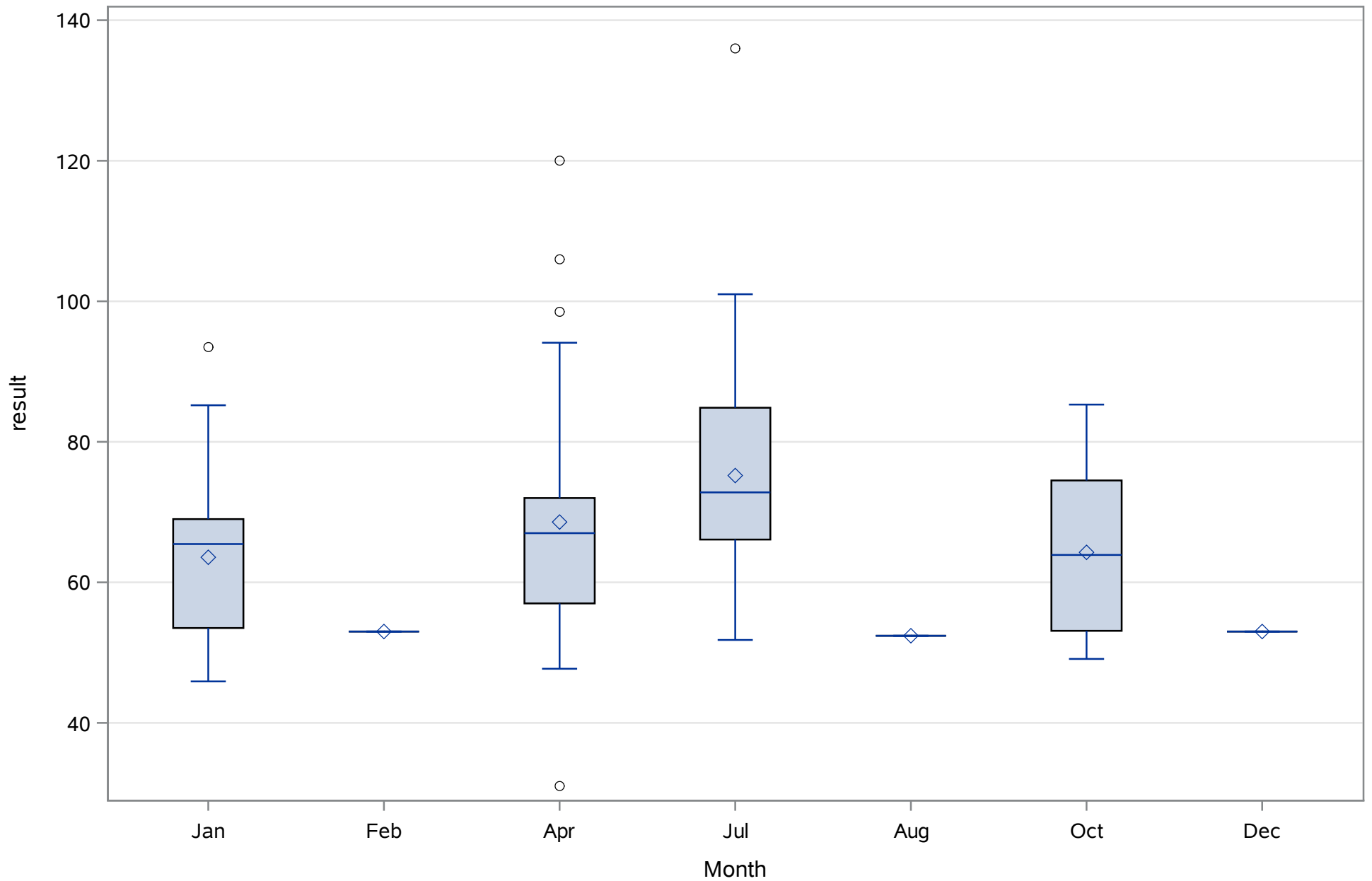
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Ammonia (N) (Total) mg/L



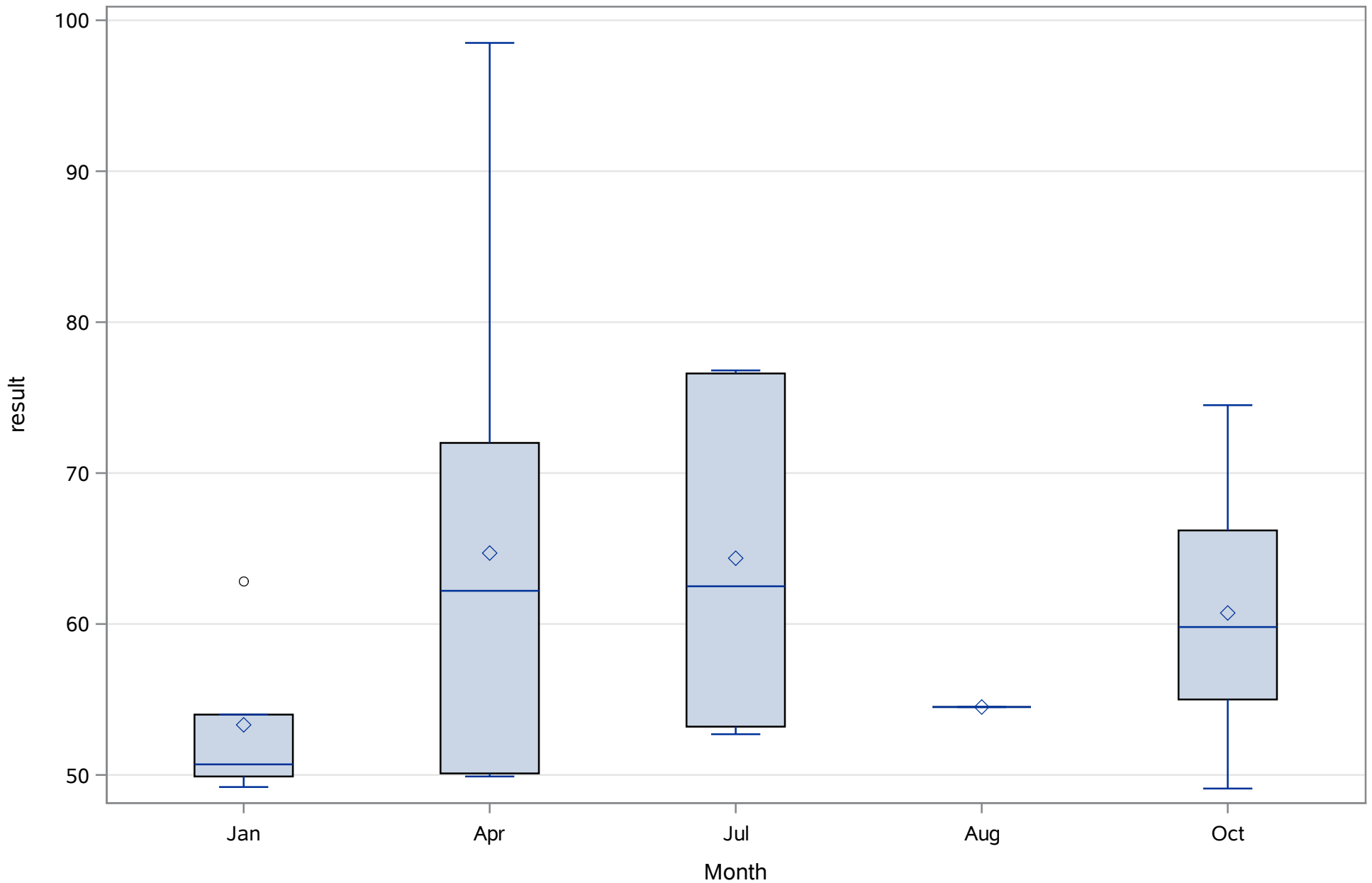
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Boron (Dissolved) ug/L



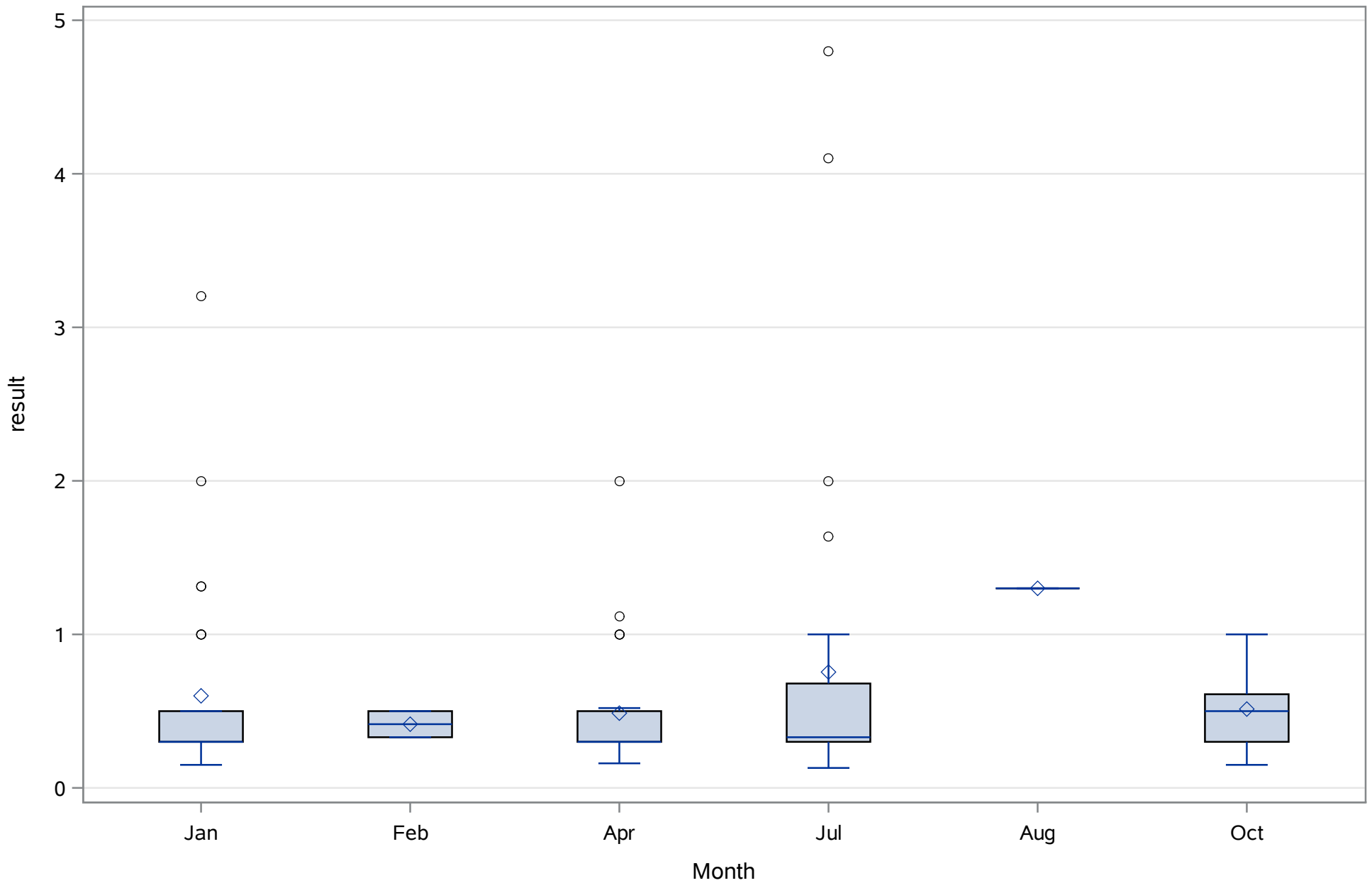
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Calcium (Dissolved) mg/L



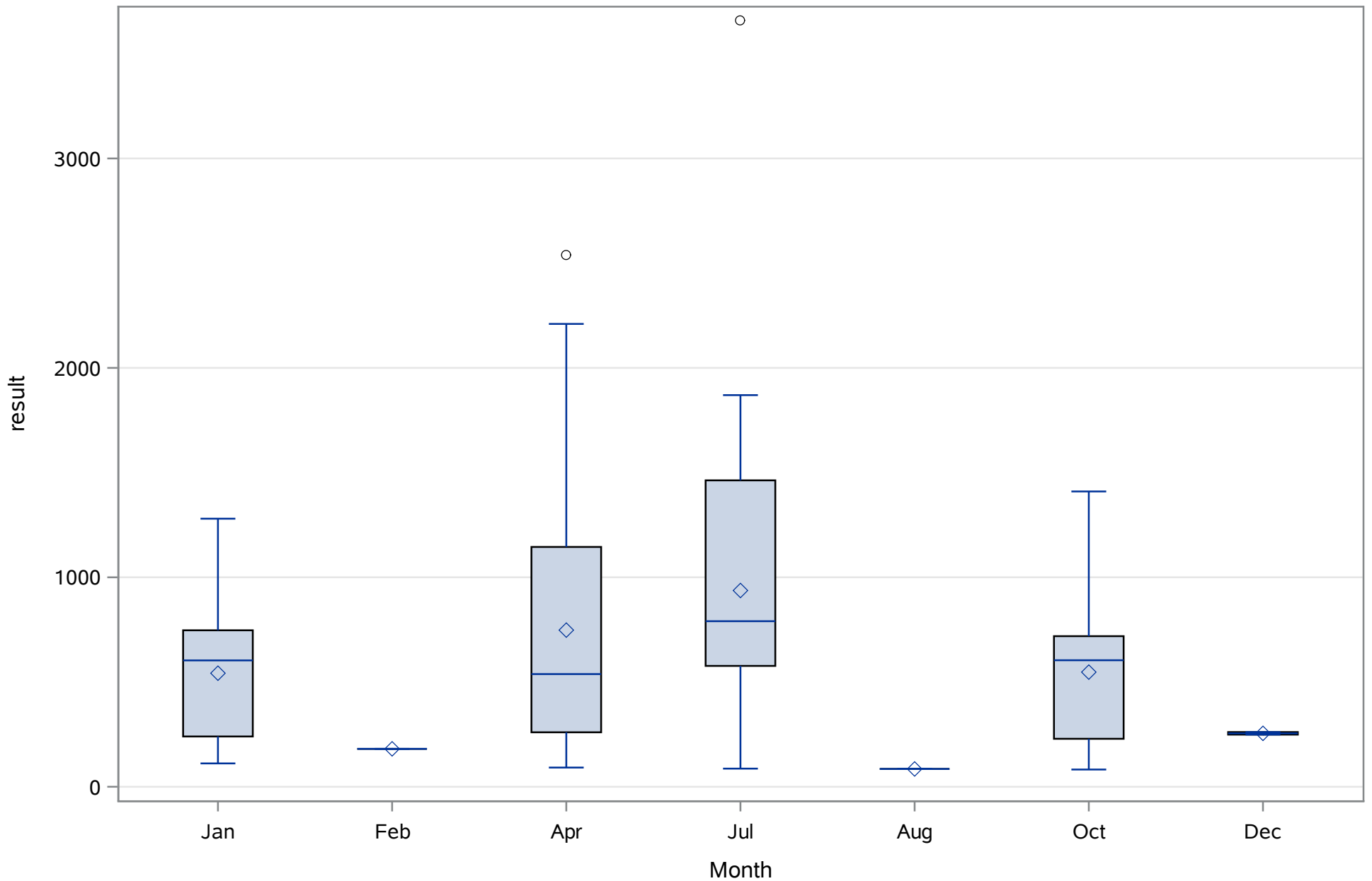
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Calcium (Total) mg/L



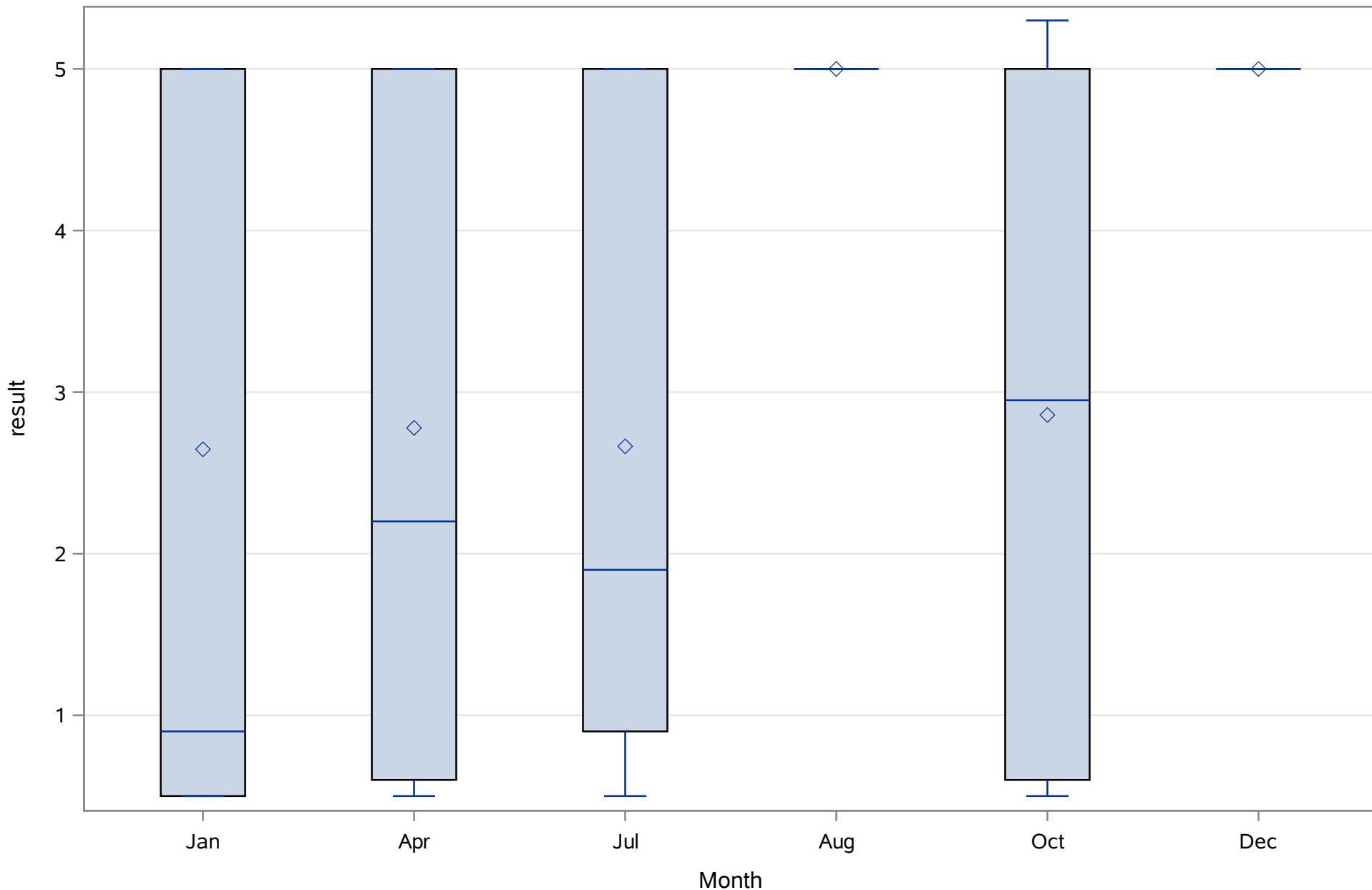
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Carbon- Total Organic (Total) mg/L



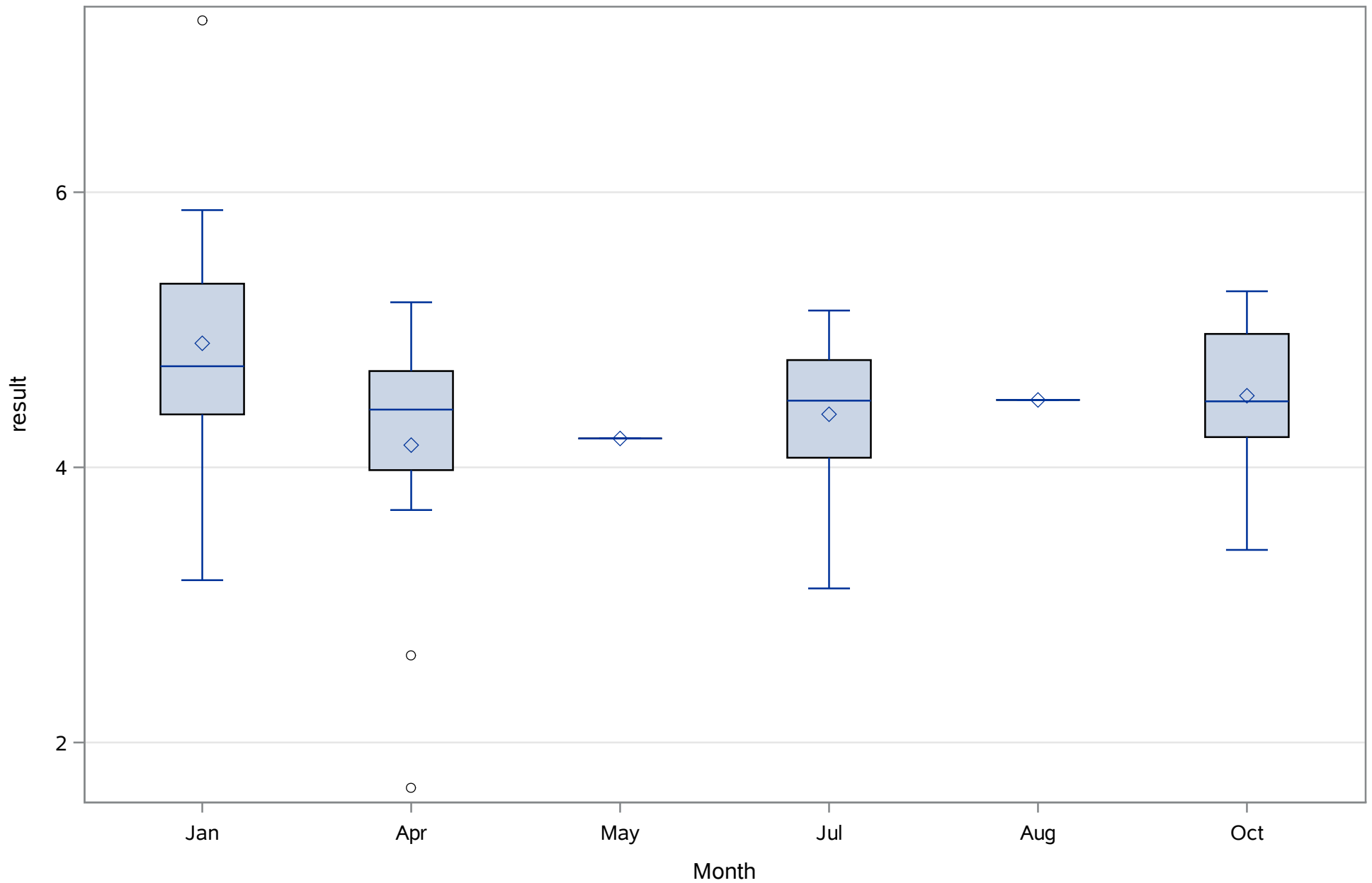
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Chloride (Dissolved) mg/L



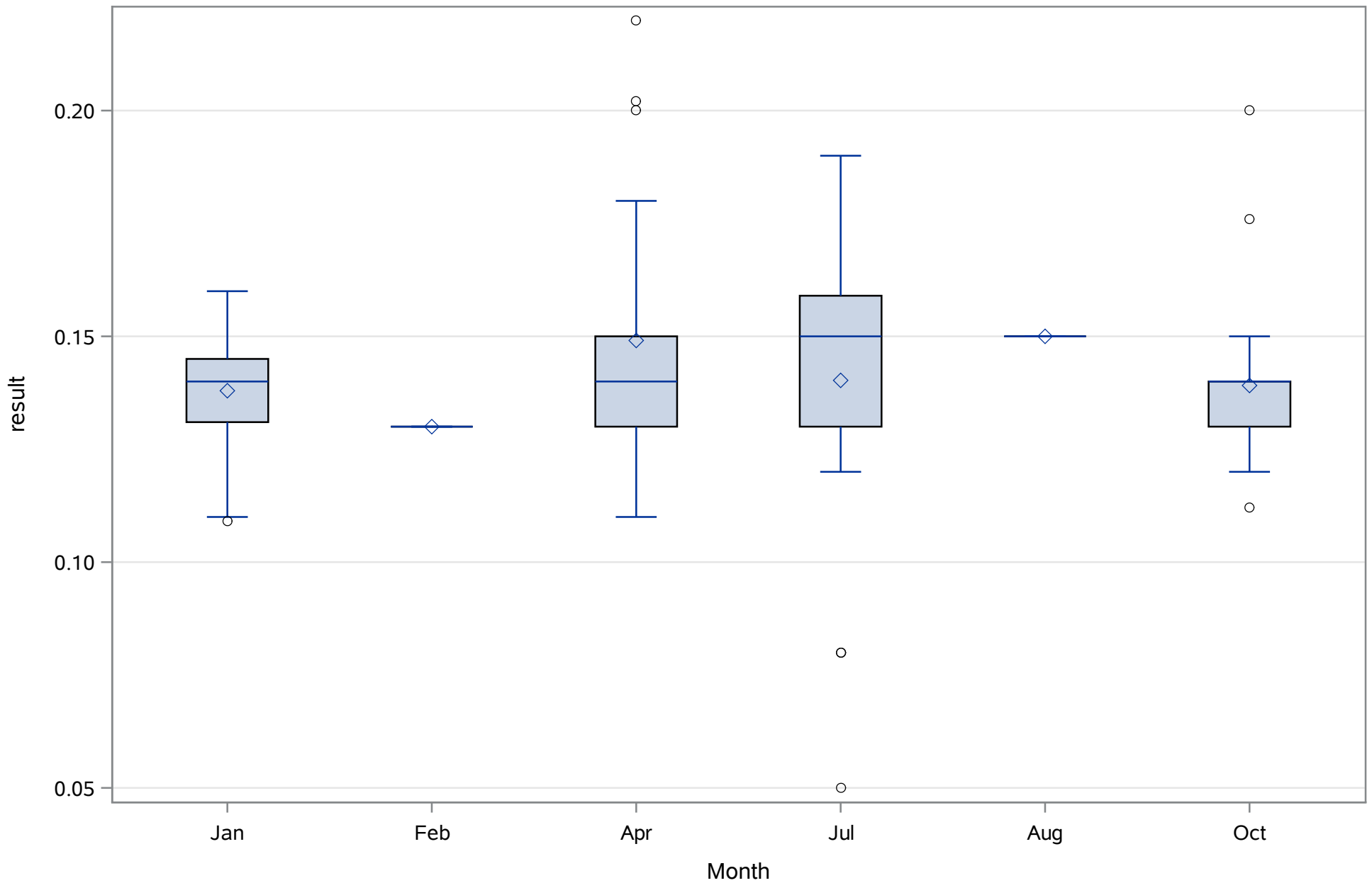
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Color (Dissolved) PCU



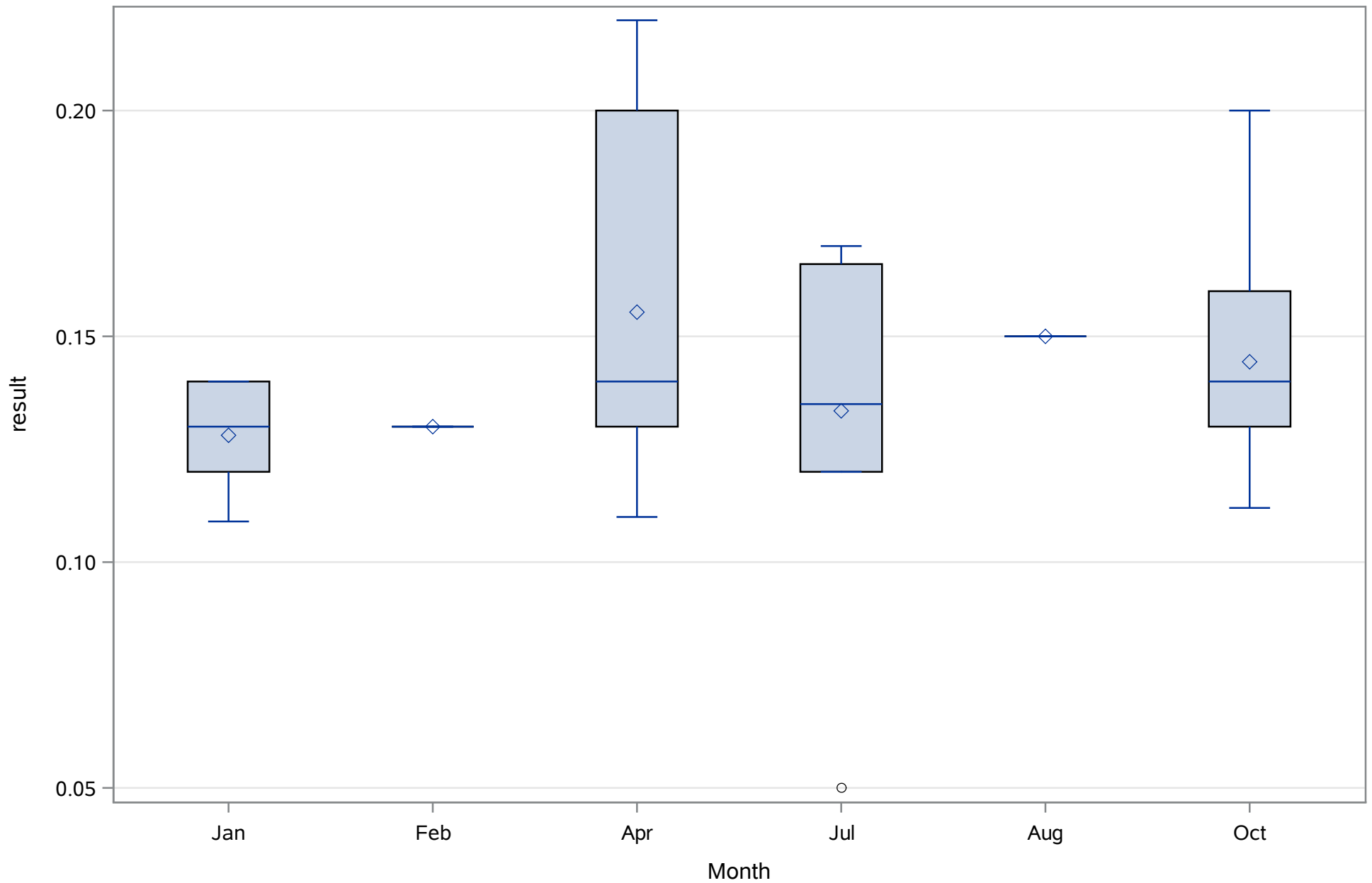
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Dissolved Oxygen (Total) mg/L



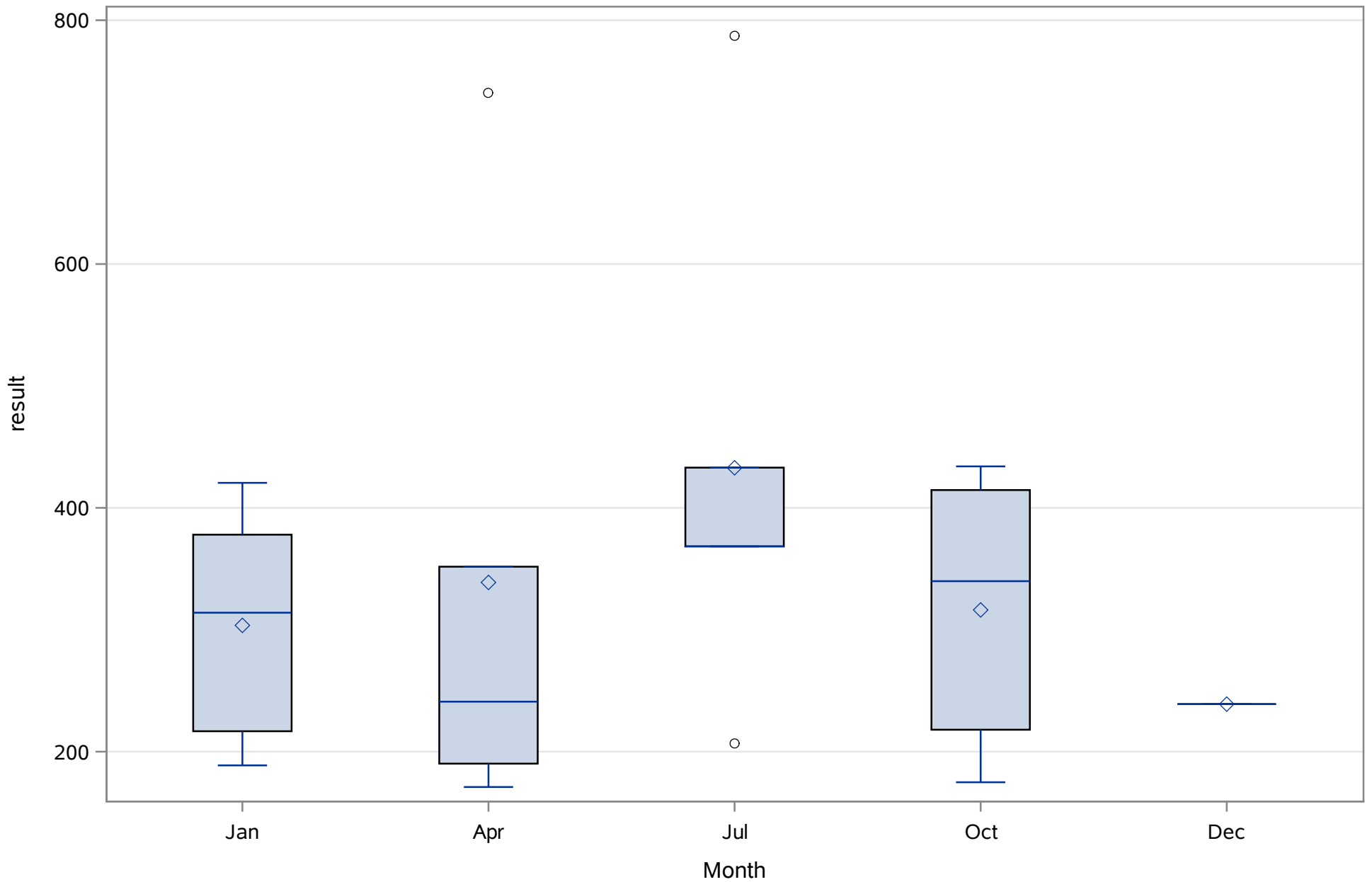
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Dissolved) mg/L



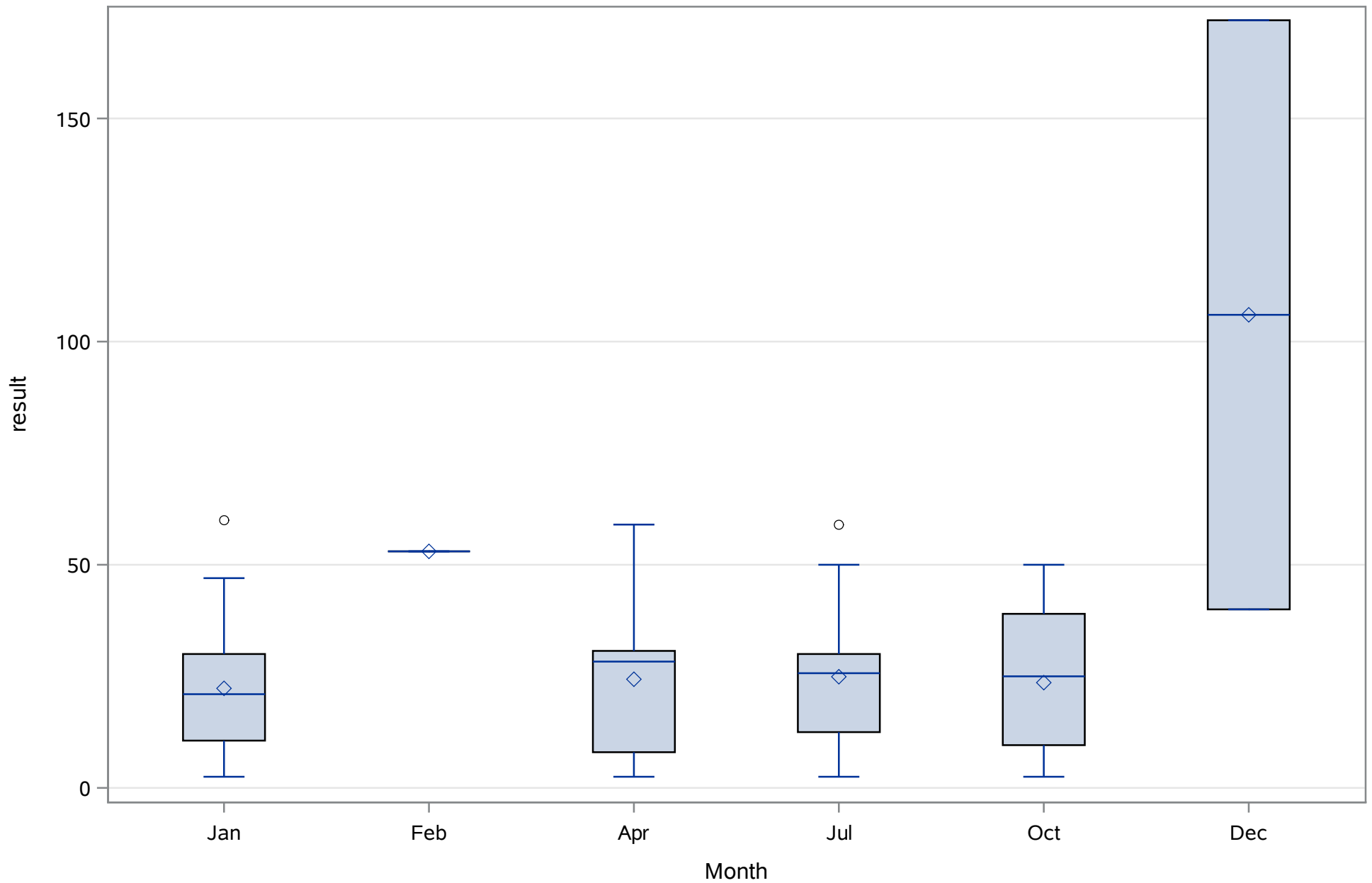
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Fluoride (Total) mg/L



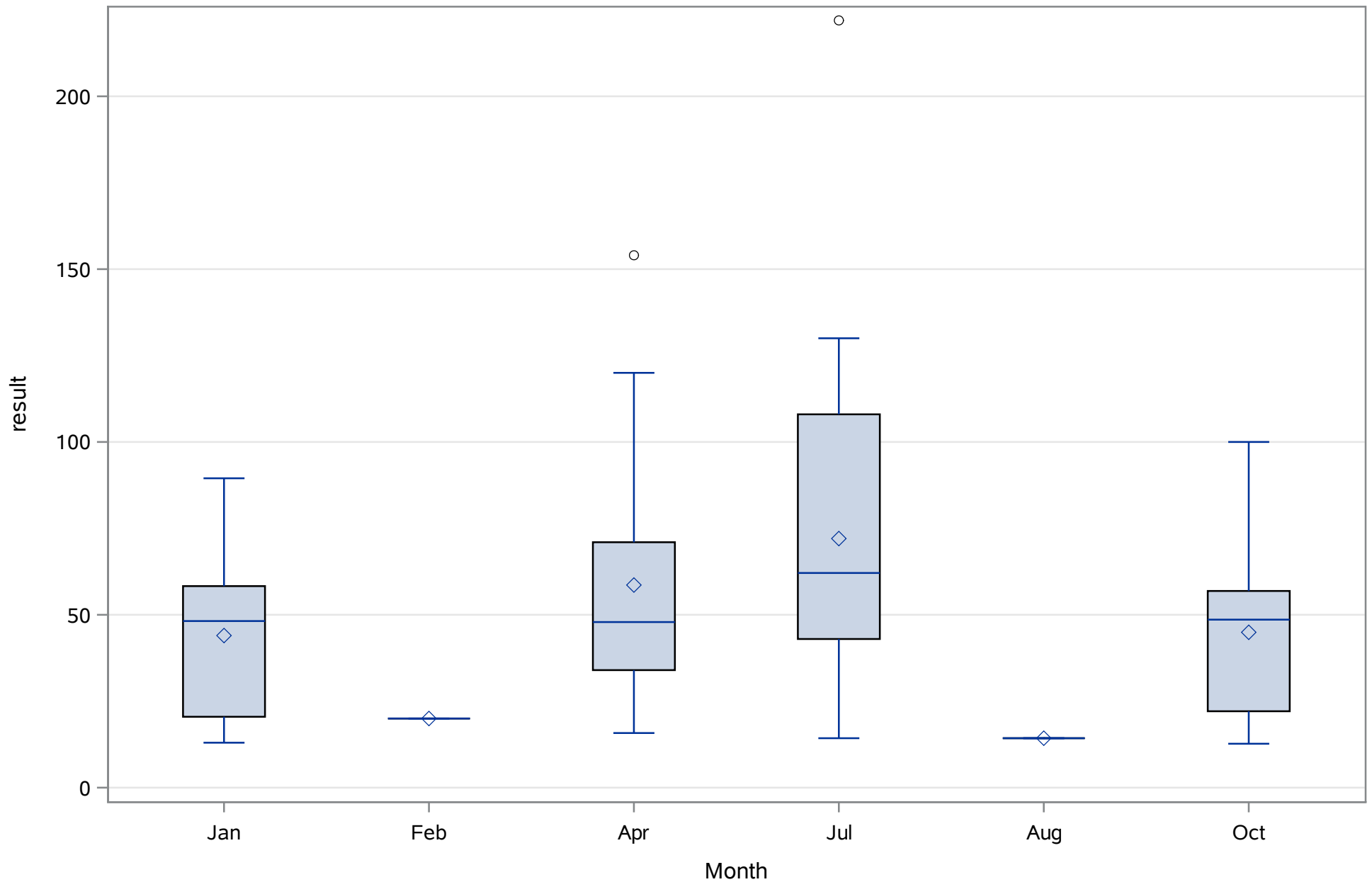
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Hardness (Total) mg/L



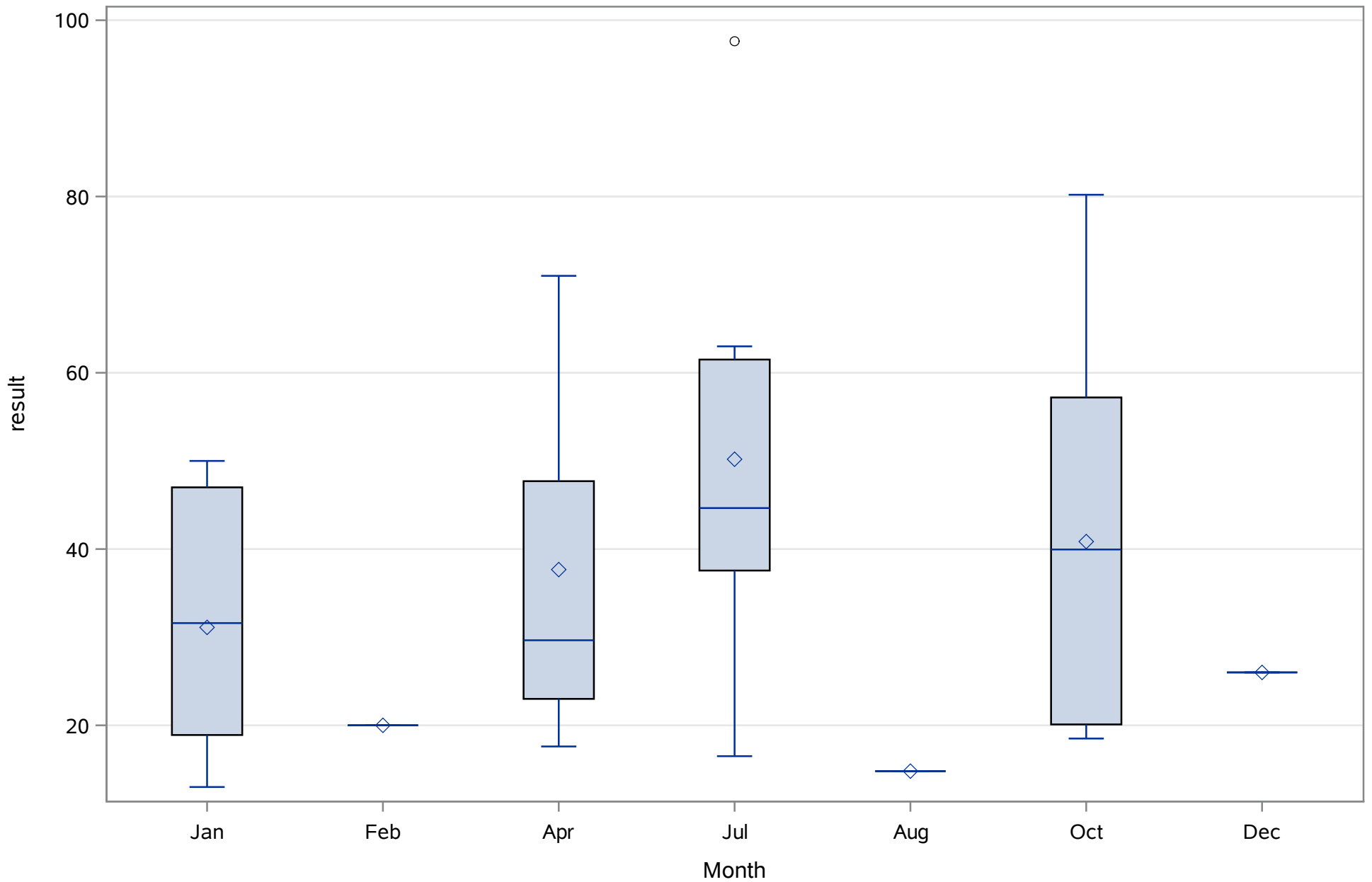
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Iron (Dissolved) ug/L



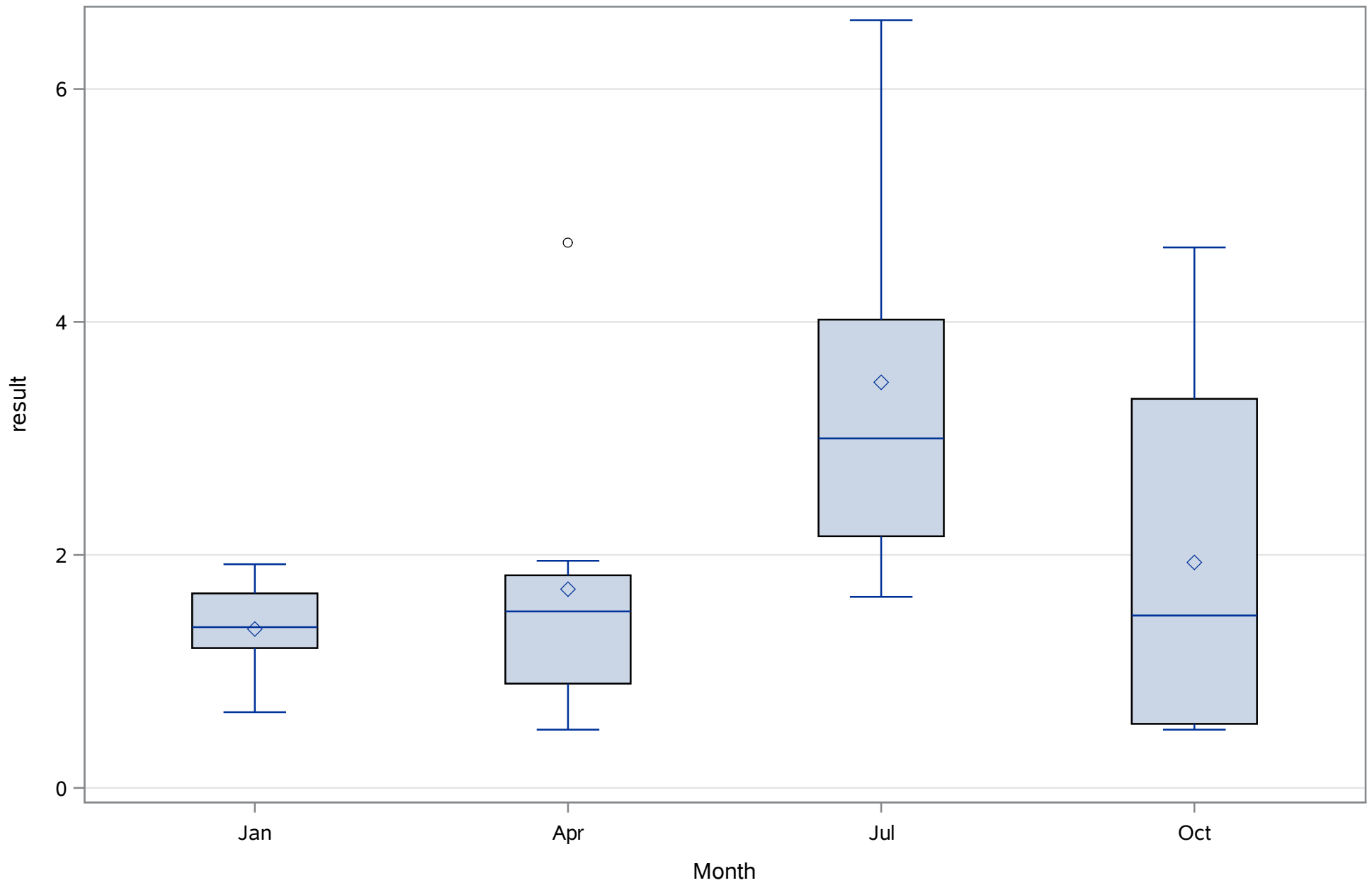
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Dissolved) mg/L



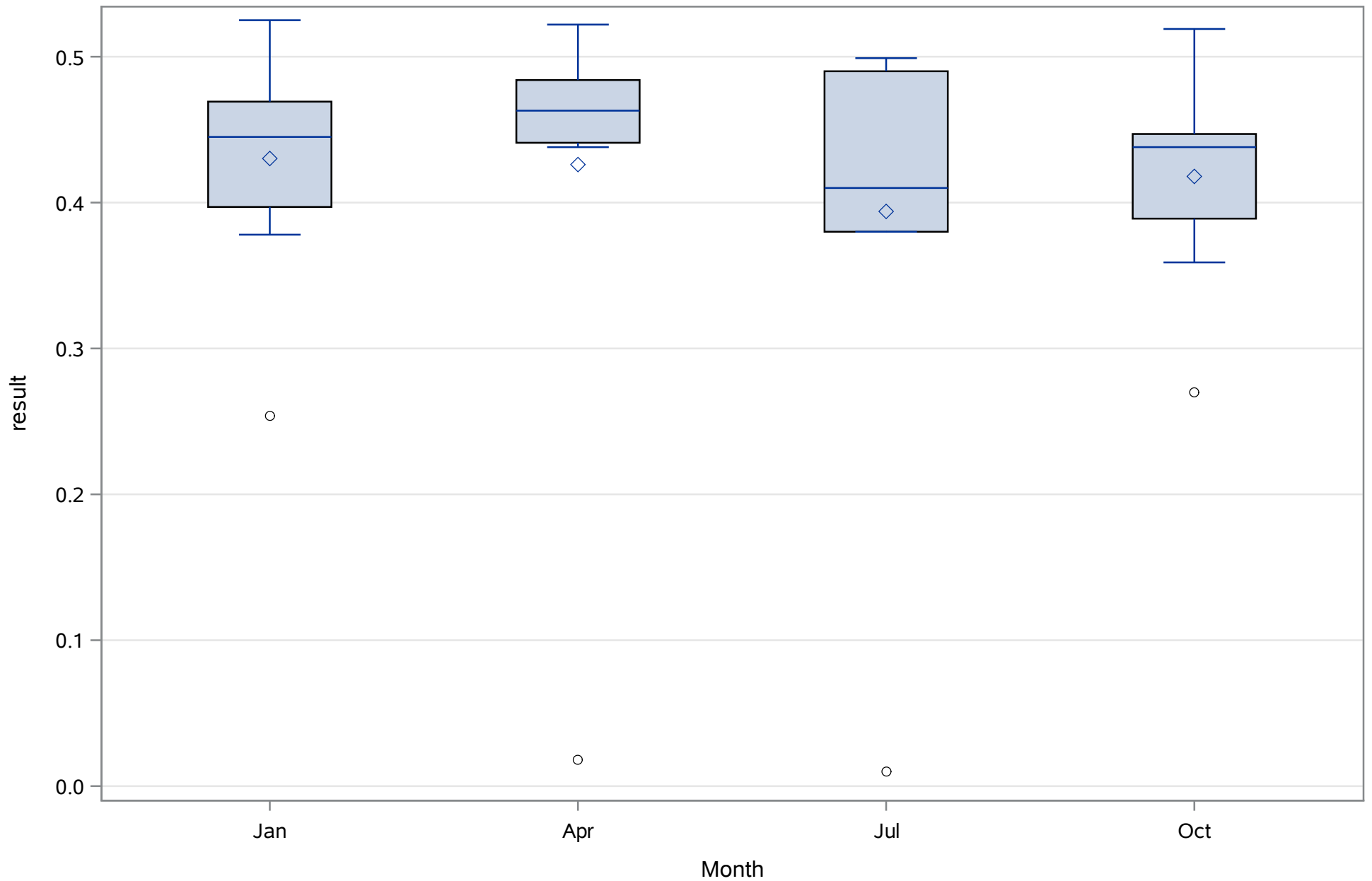
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Magnesium (Total) mg/L



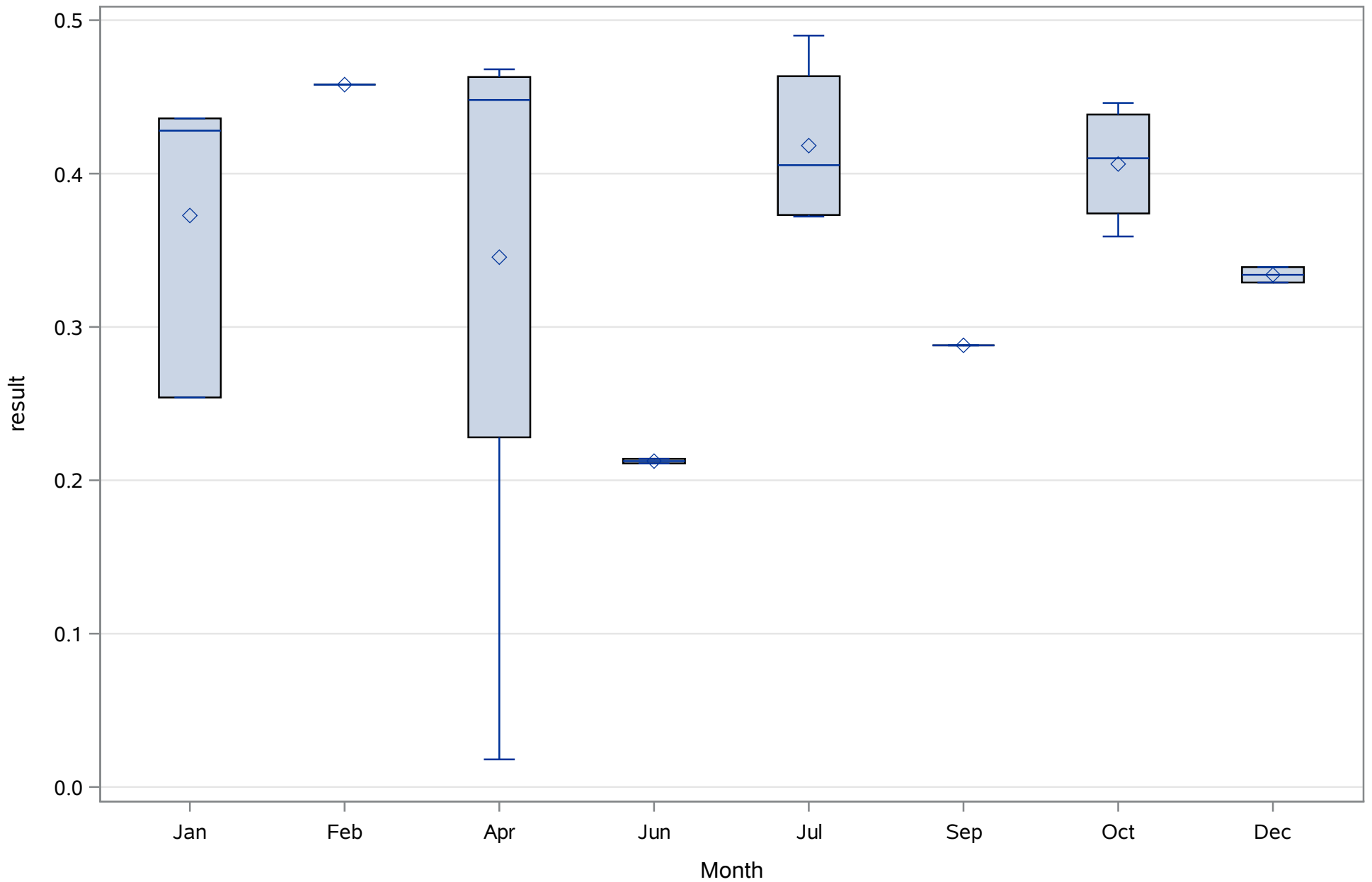
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Manganese (Dissolved) ug/L



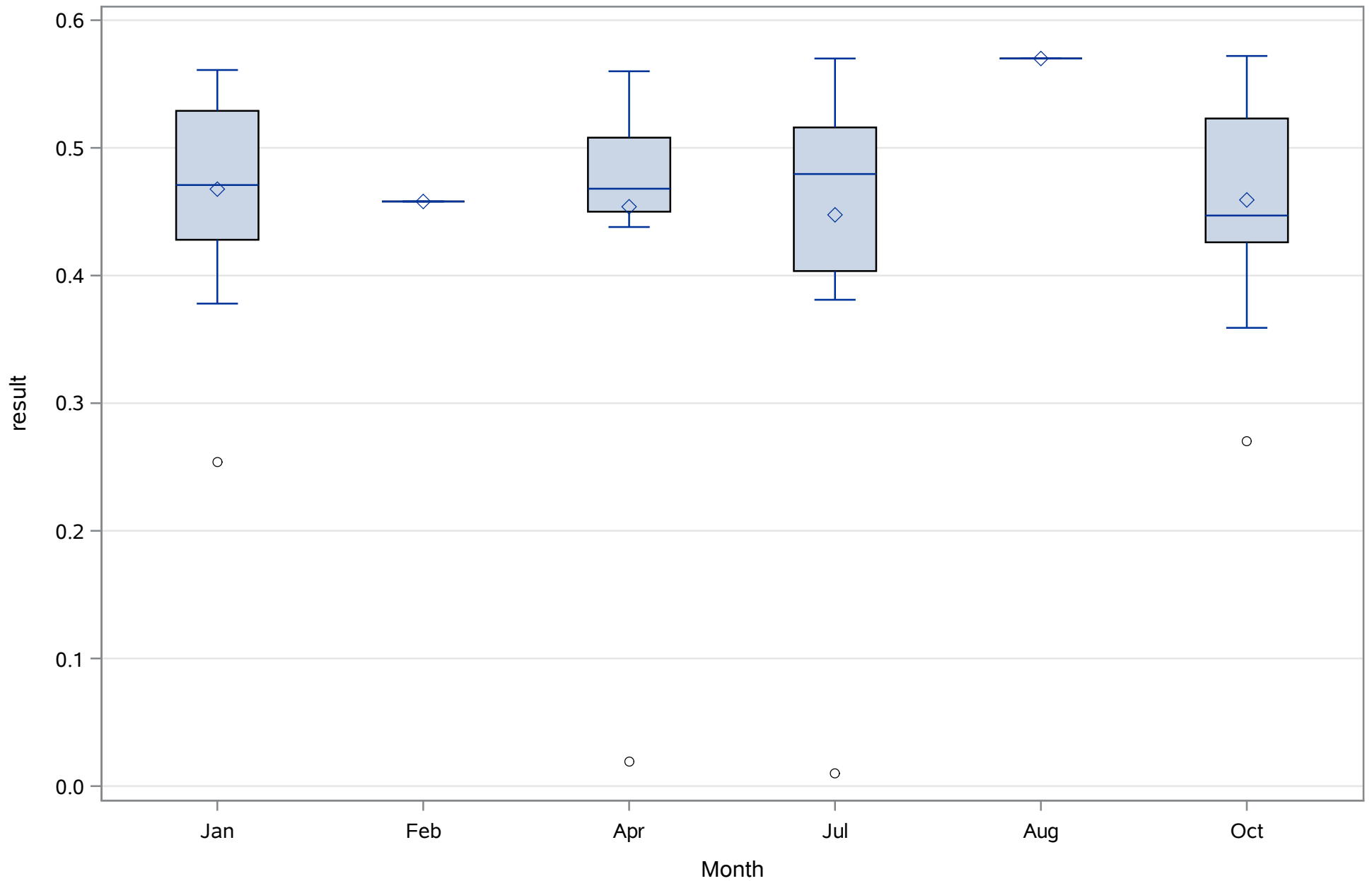
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Dissolved) mg/L



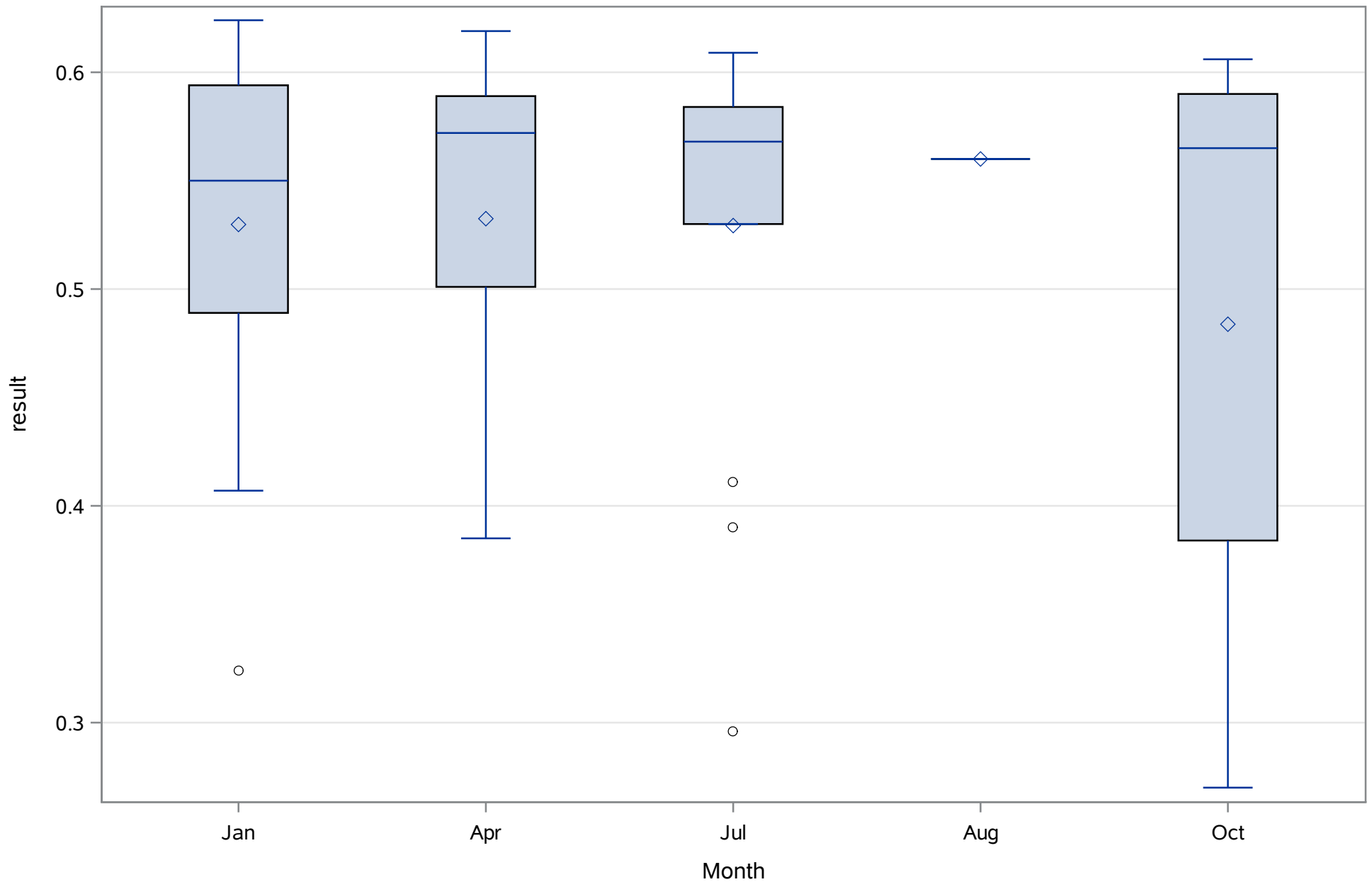
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate (N) (Total) mg/L



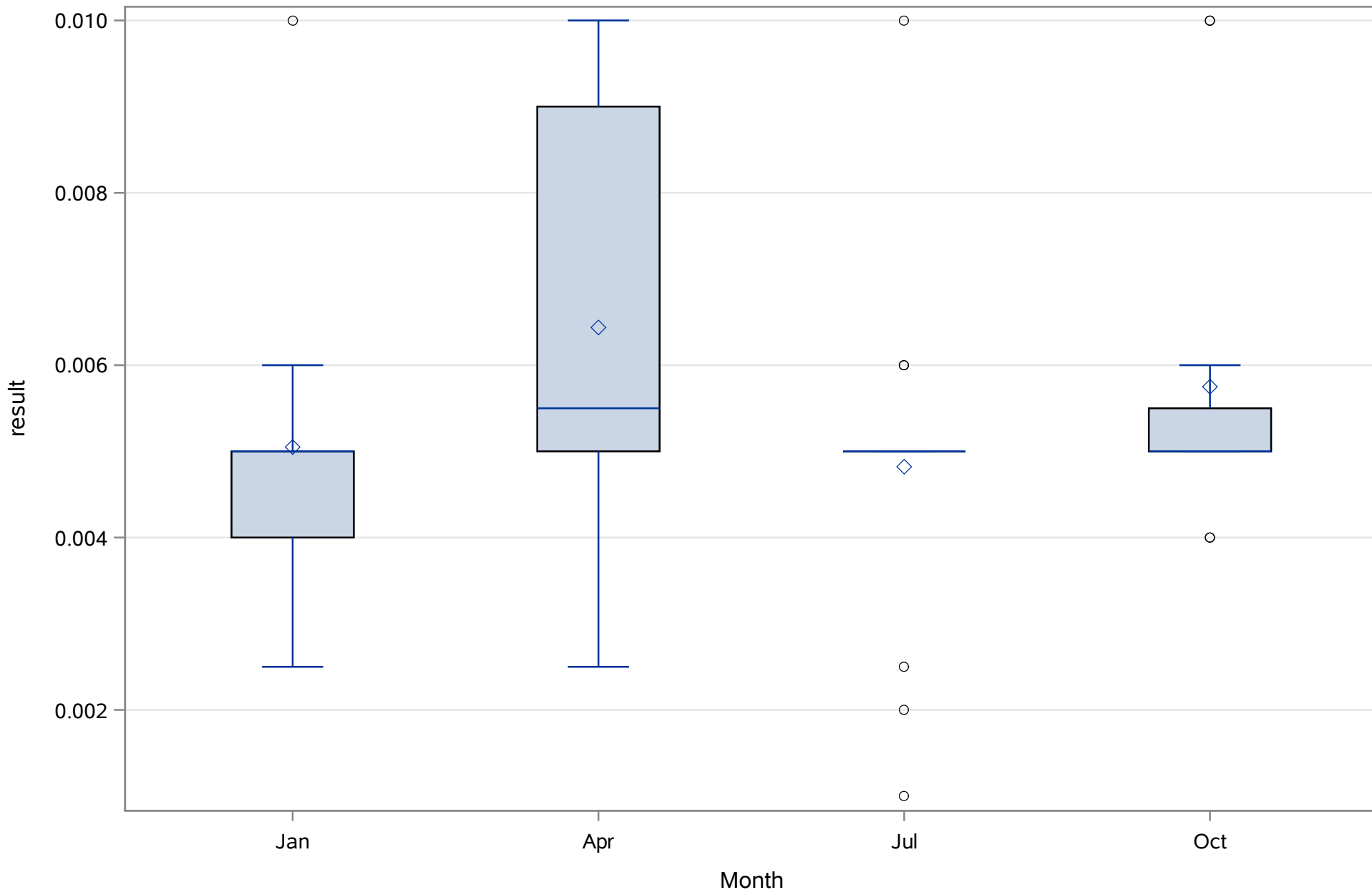
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



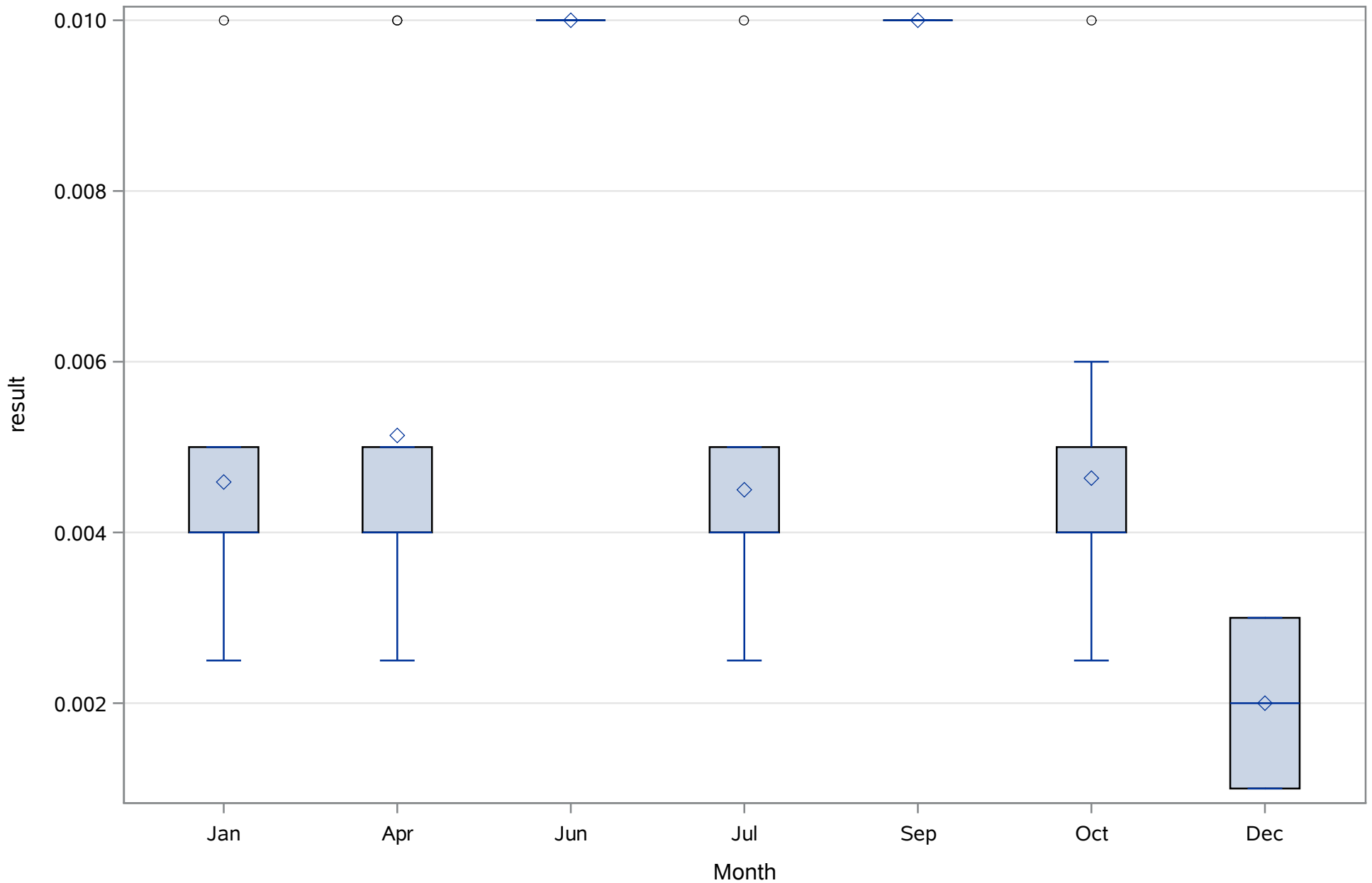
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrate-Nitrite (N) (Total) mg/L



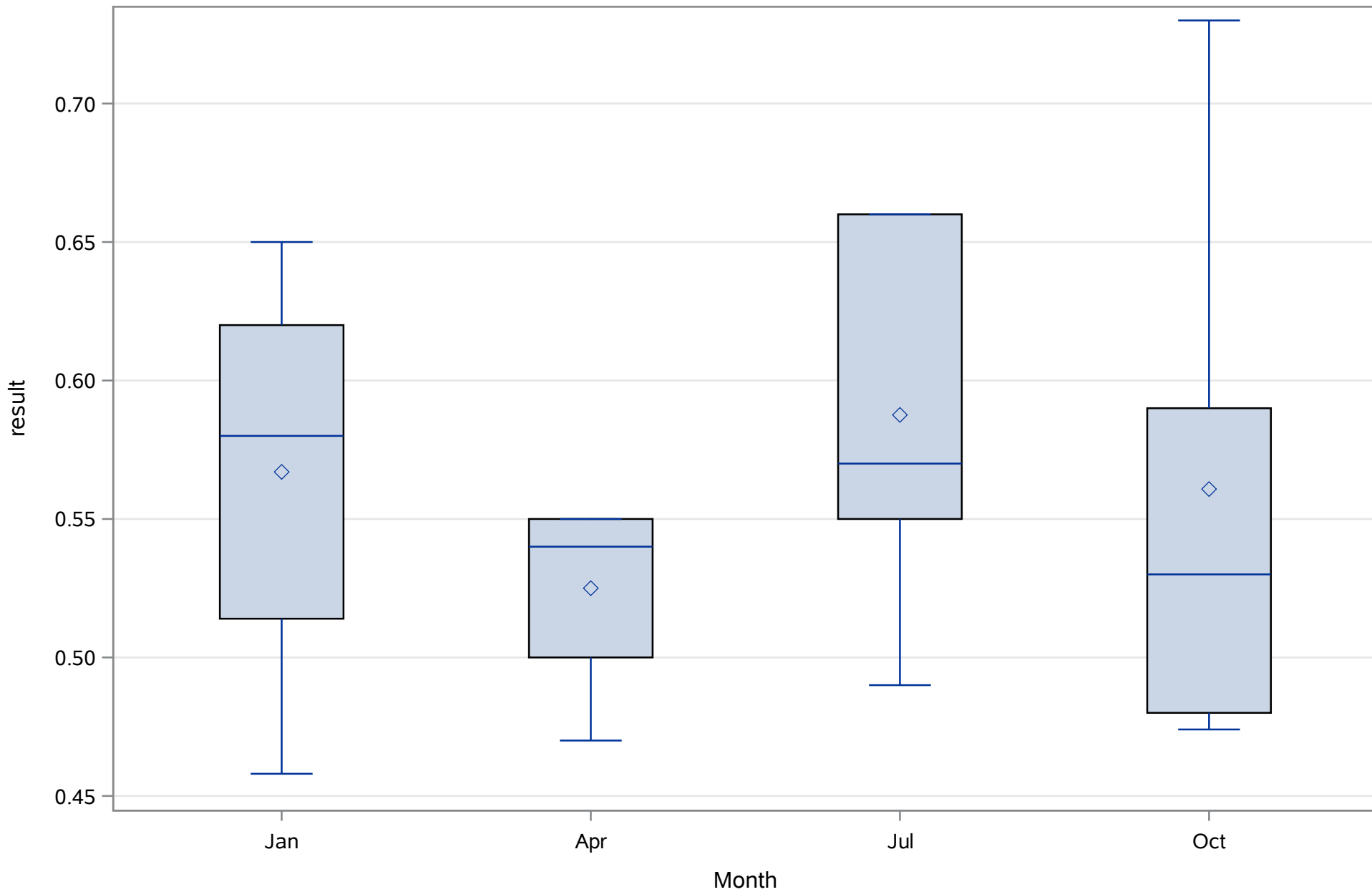
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Dissolved) mg/L



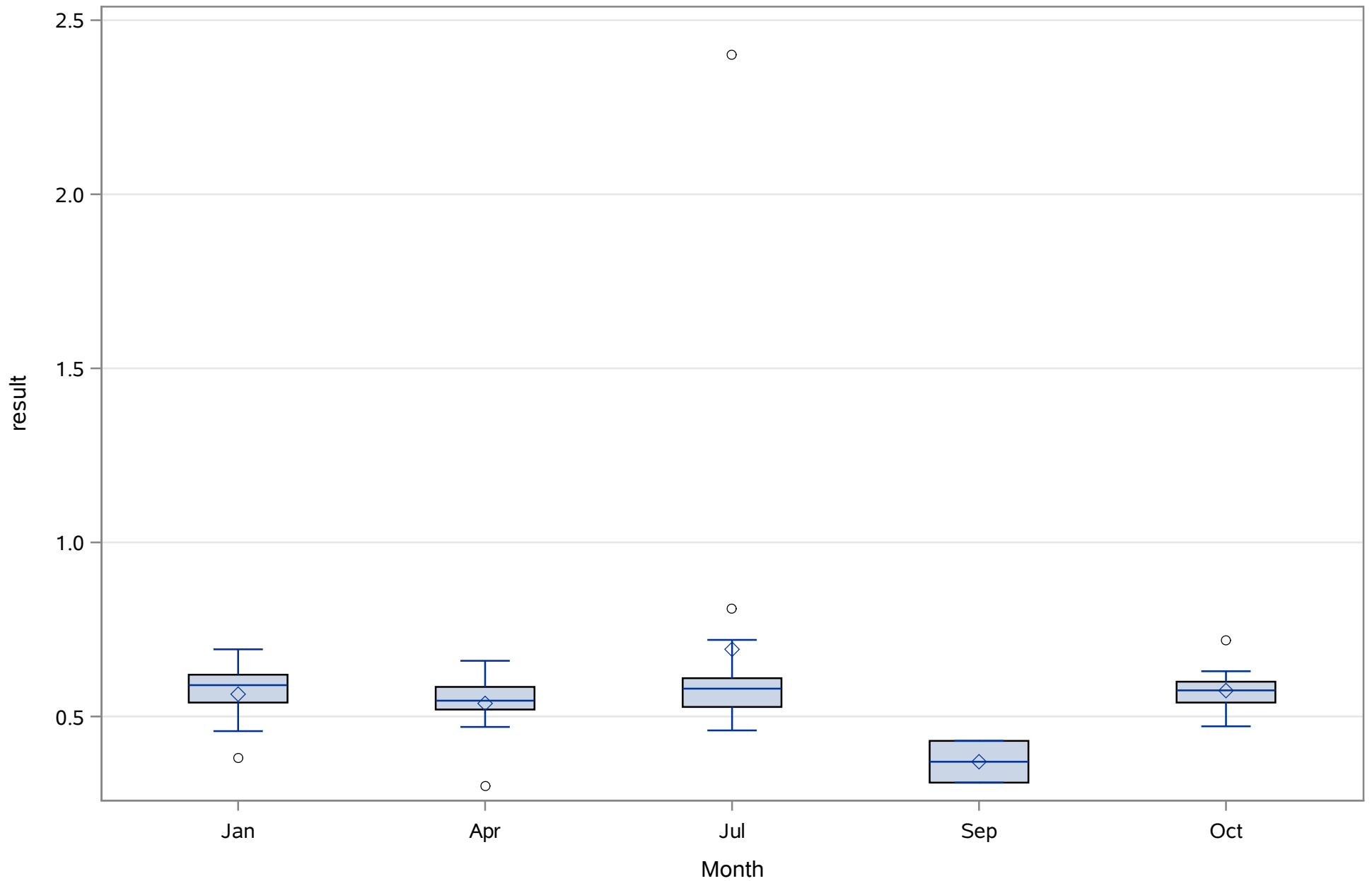
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrite (N) (Total) mg/L



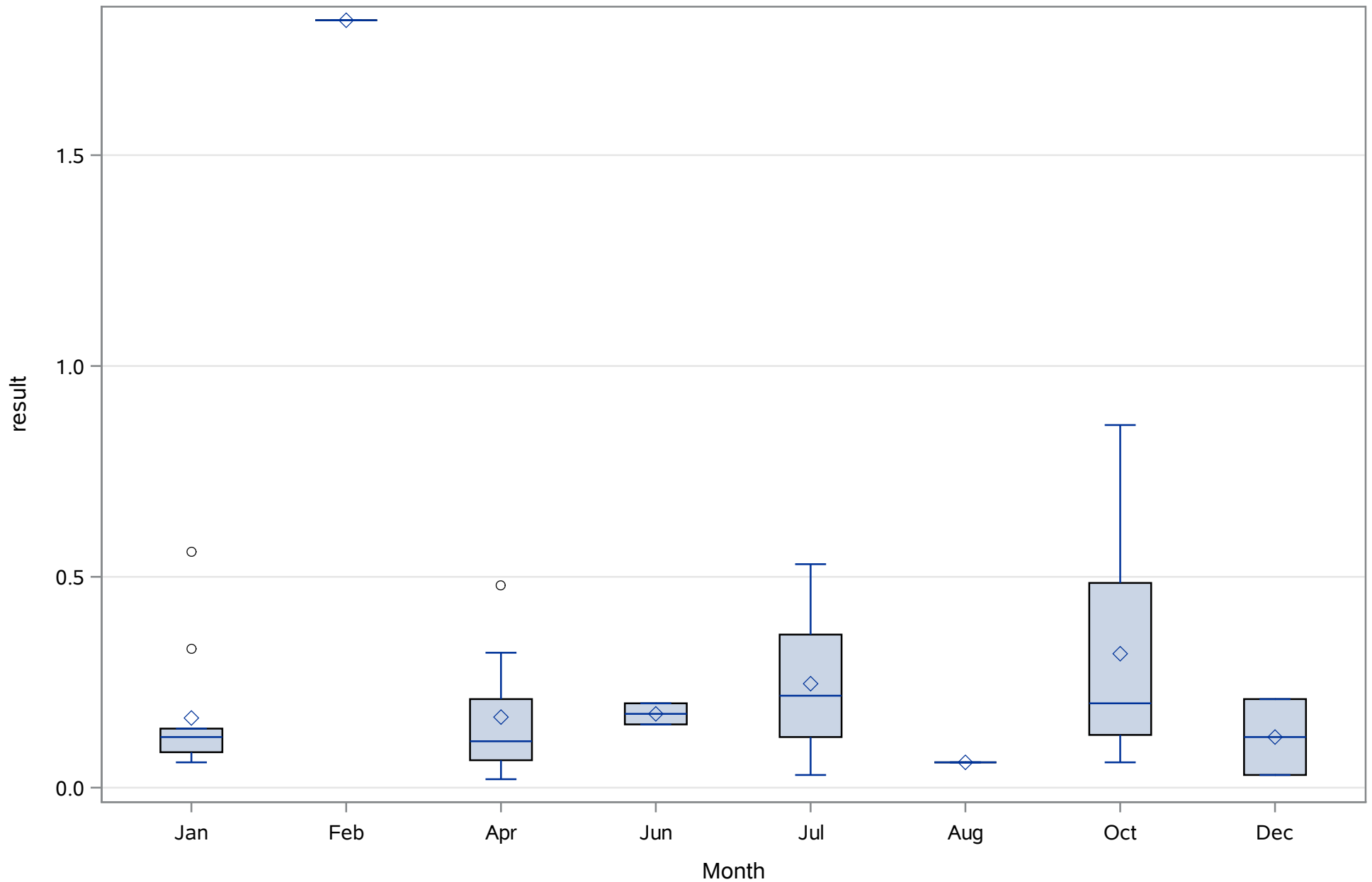
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Dissolved) mg/L



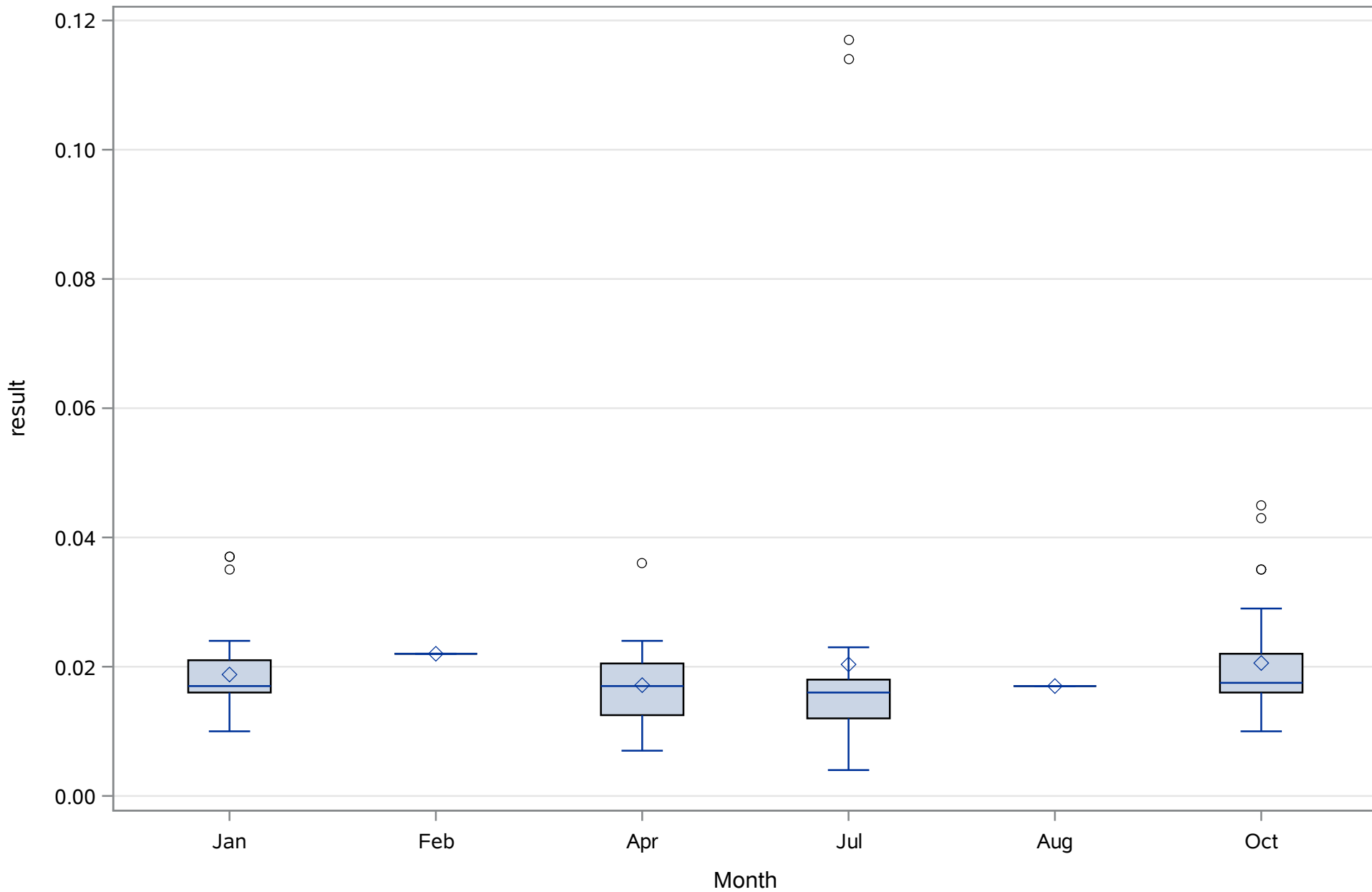
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total (Total) mg/L



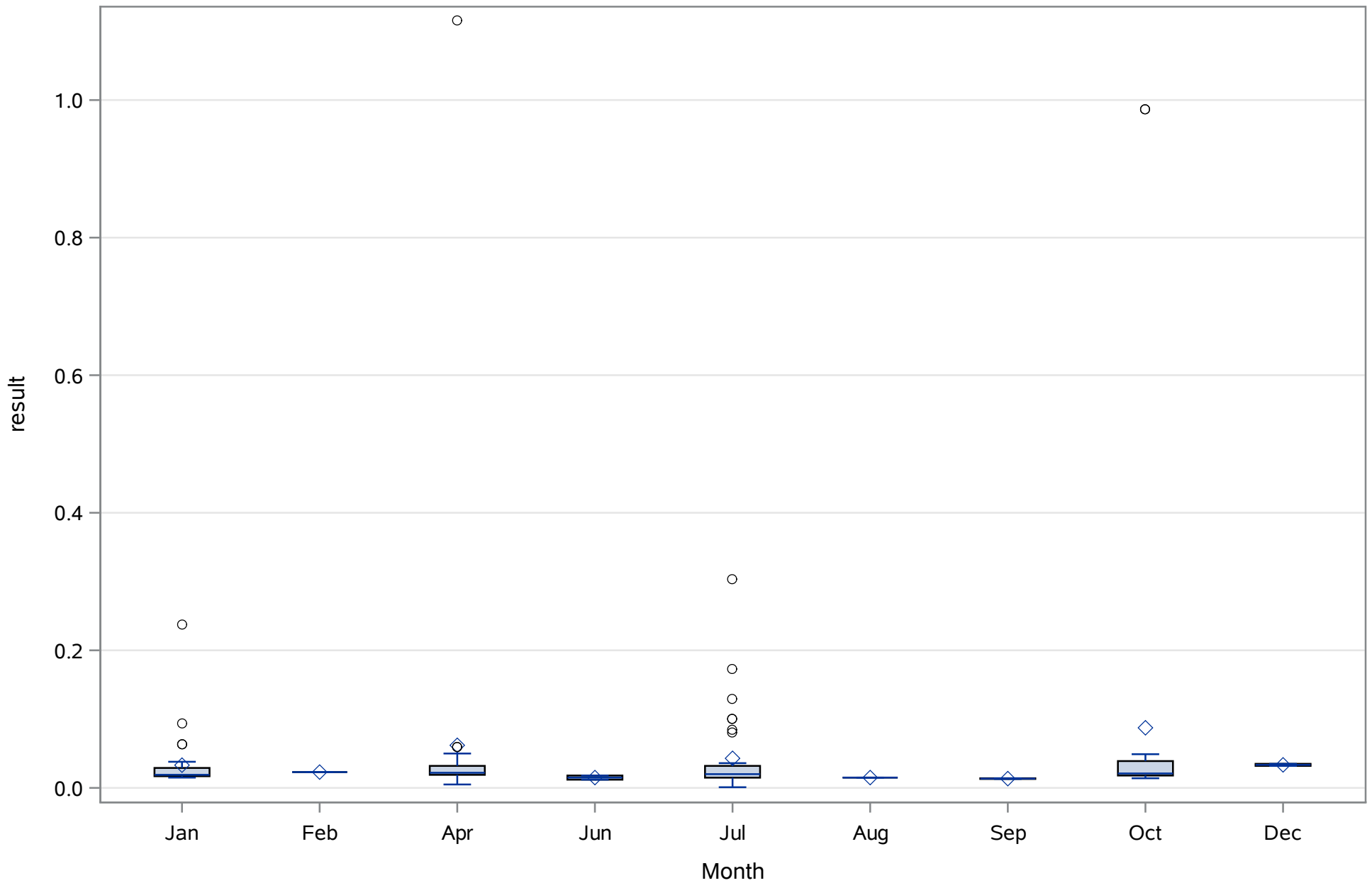
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Nitrogen- Total Kjeldahl (Total) mg/L



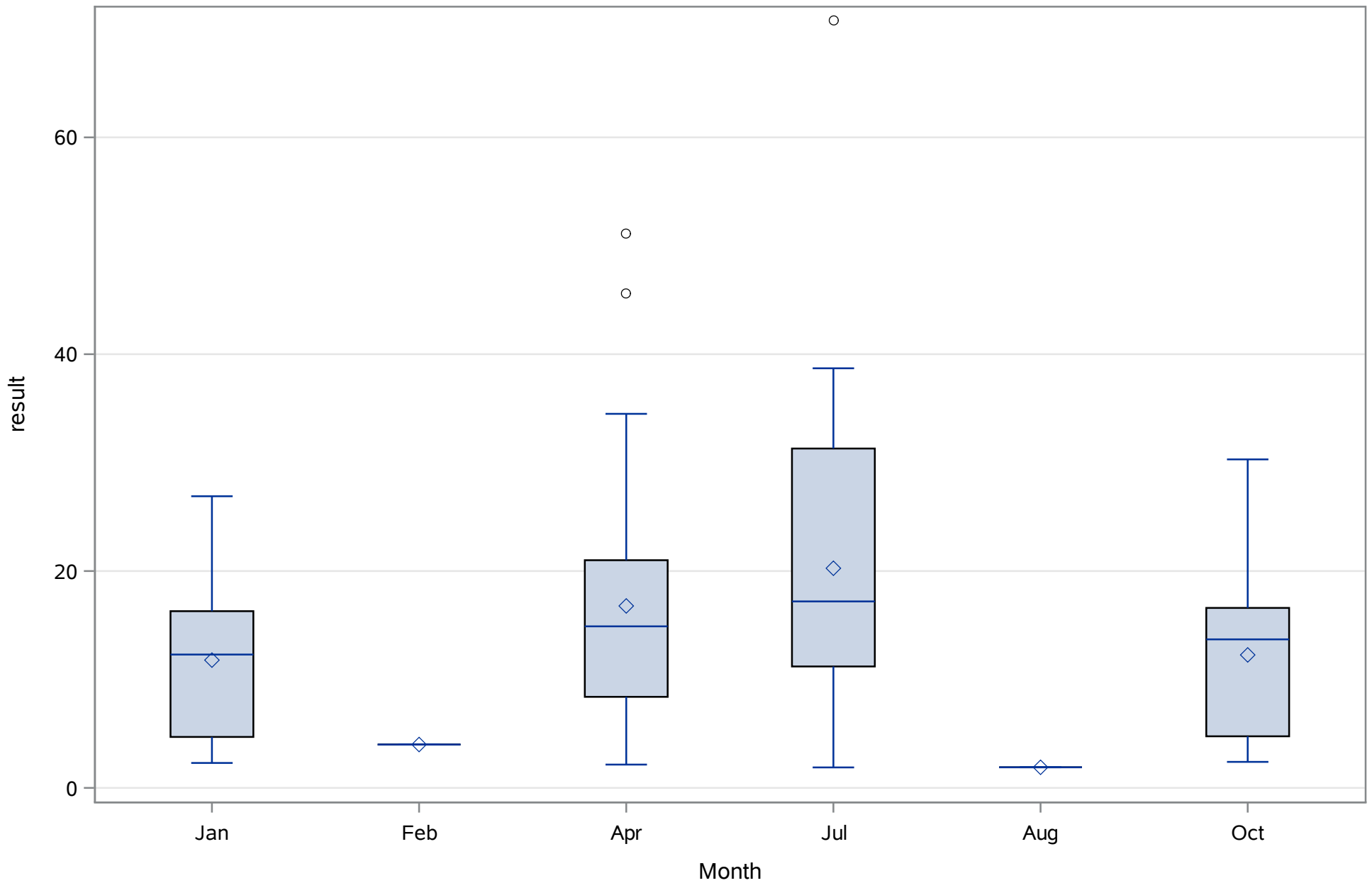
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Orthophosphate (P) (Dissolved) mg/L



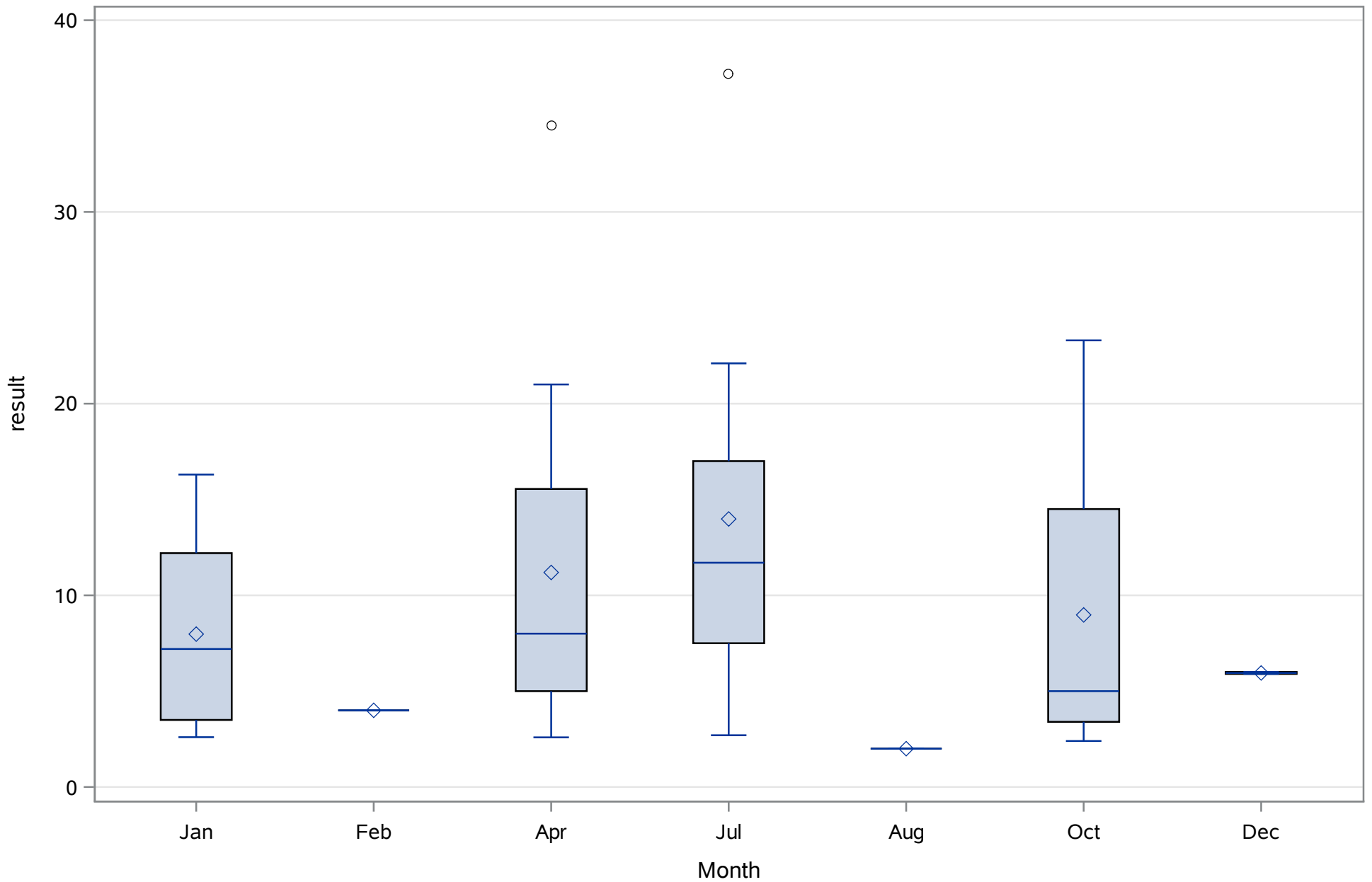
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Phosphorus- Total (Total) mg/L



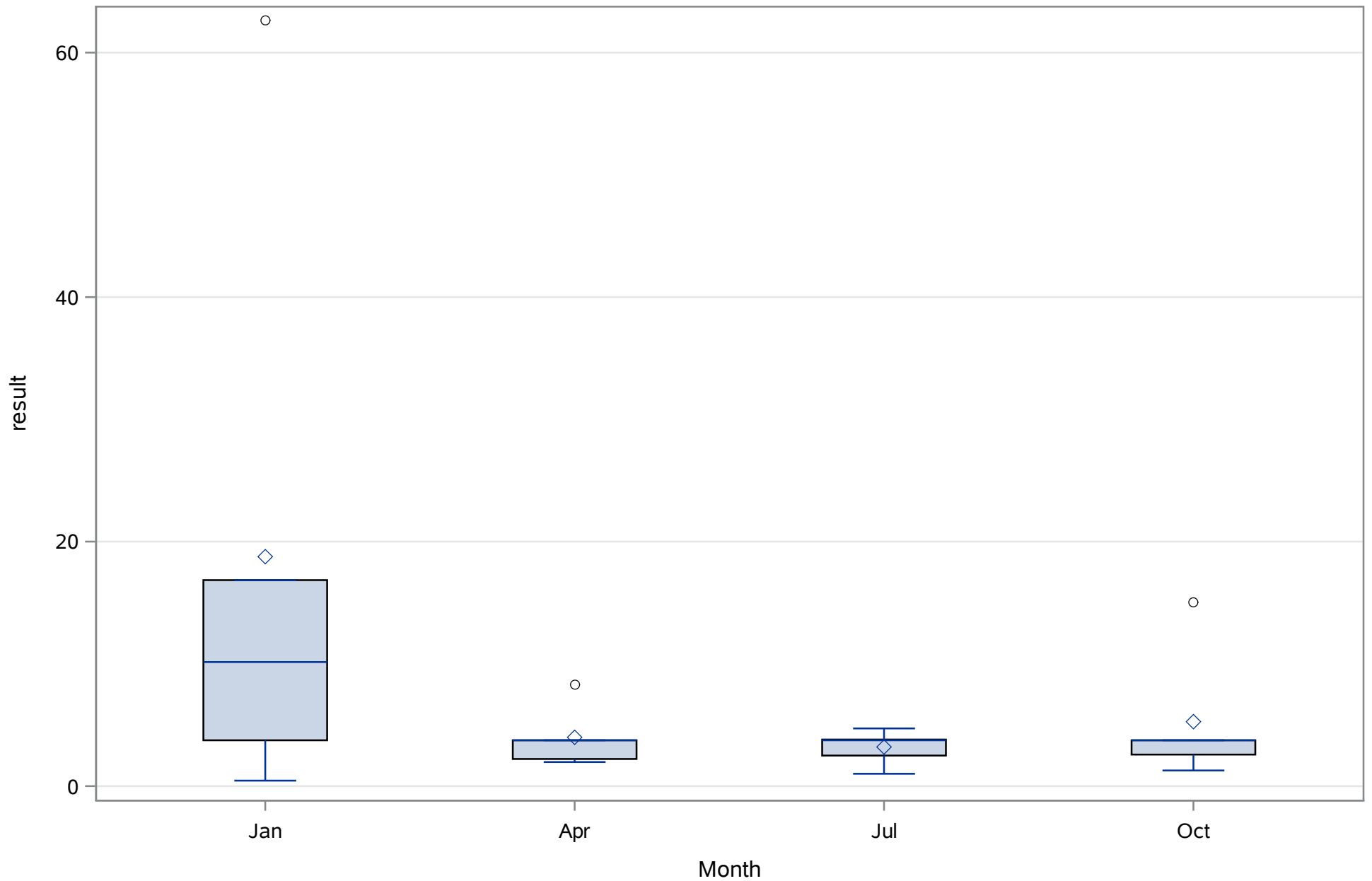
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Dissolved) mg/L



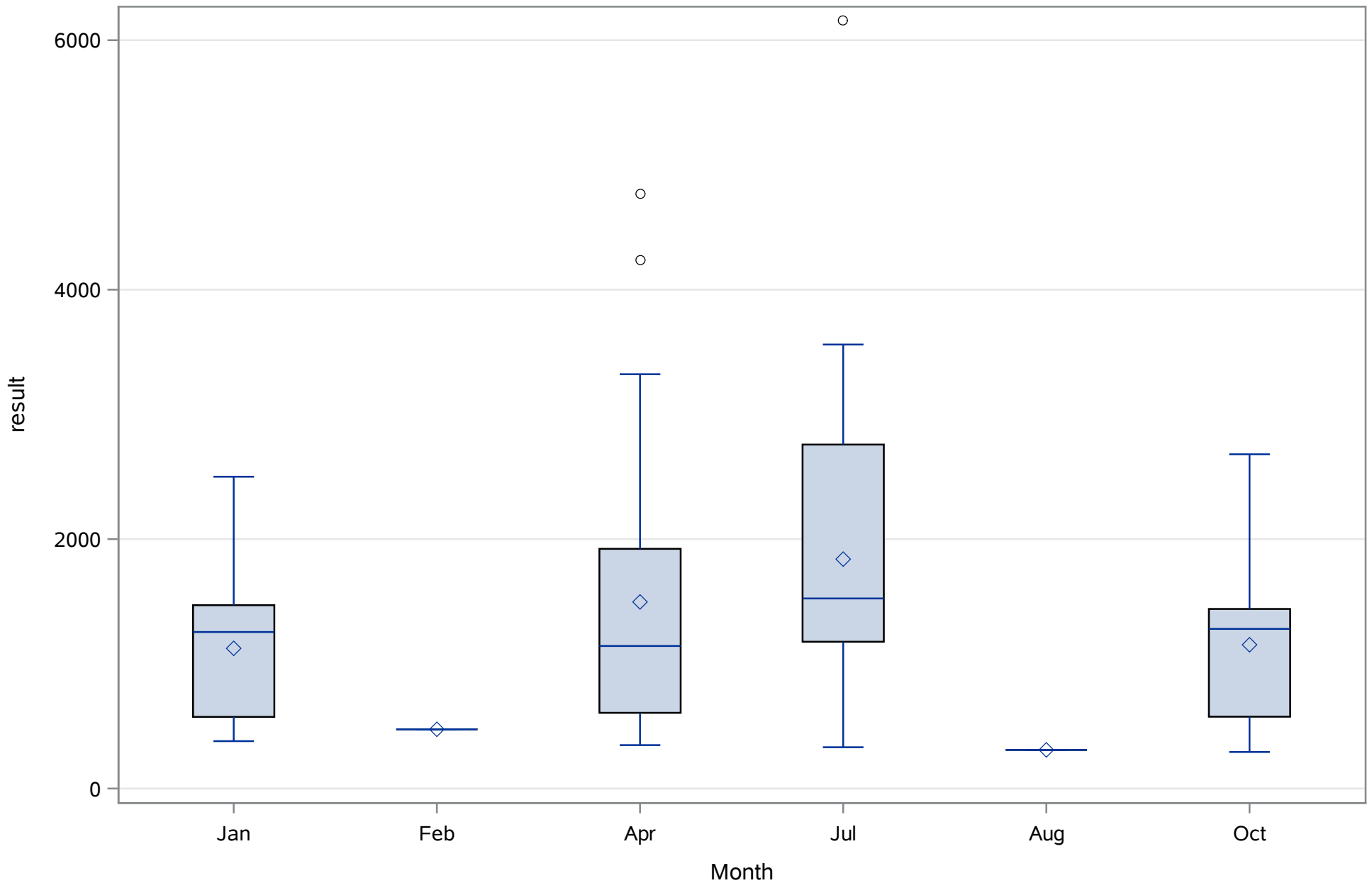
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Potassium (Total) mg/L



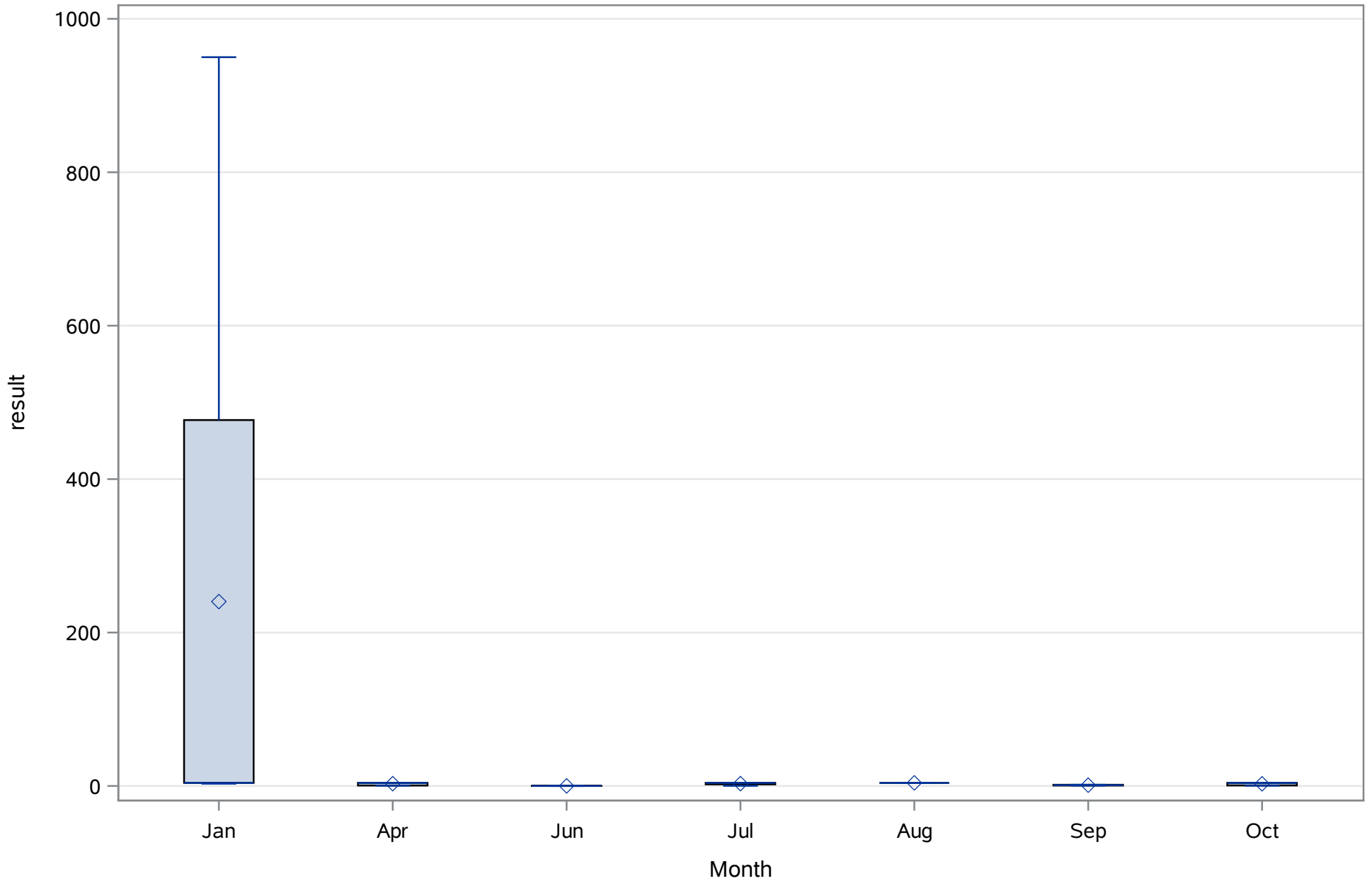
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Purge Volume (Total) Gallons



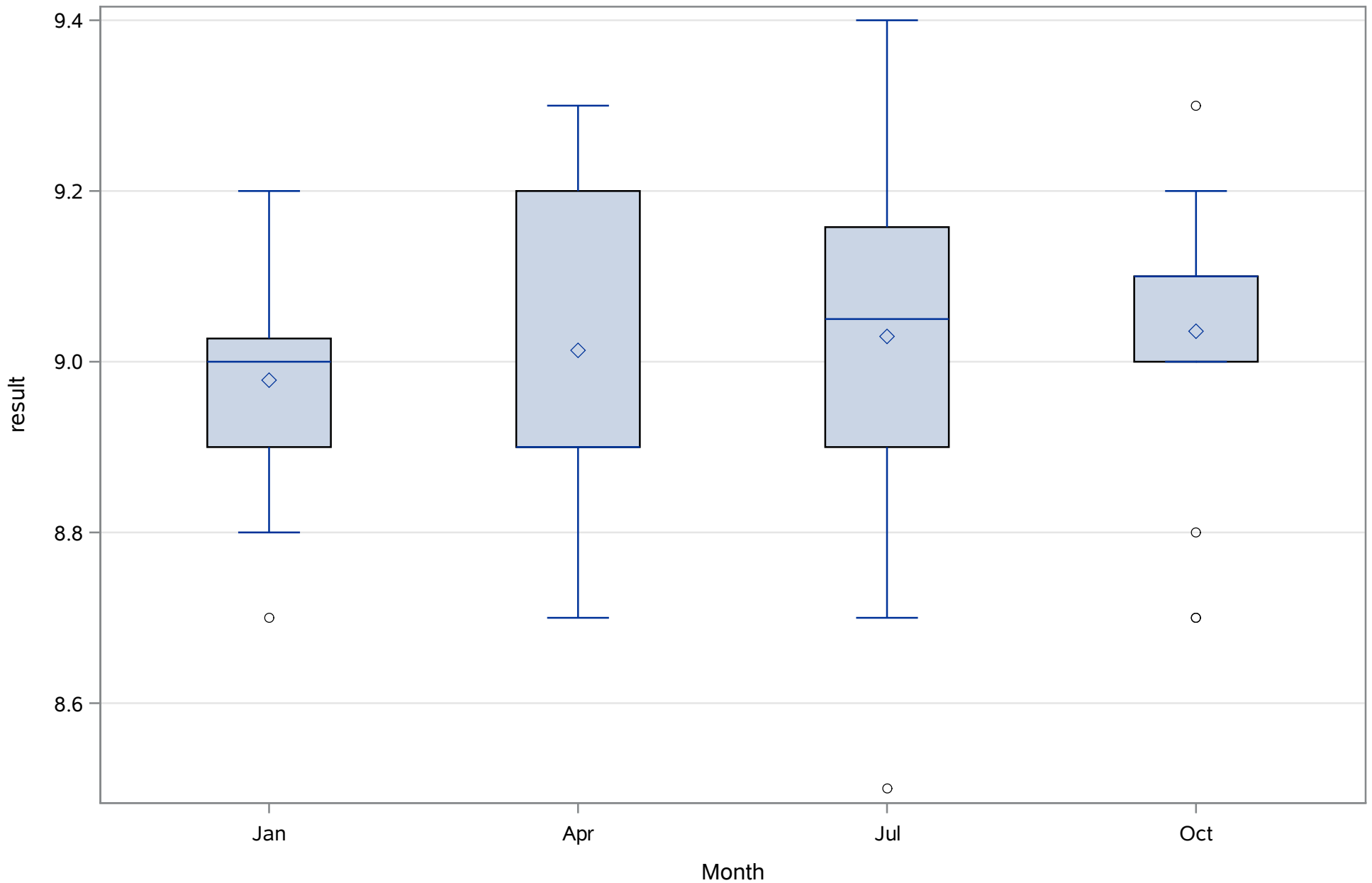
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Filterable (TDS) (Dissolved) mg/L



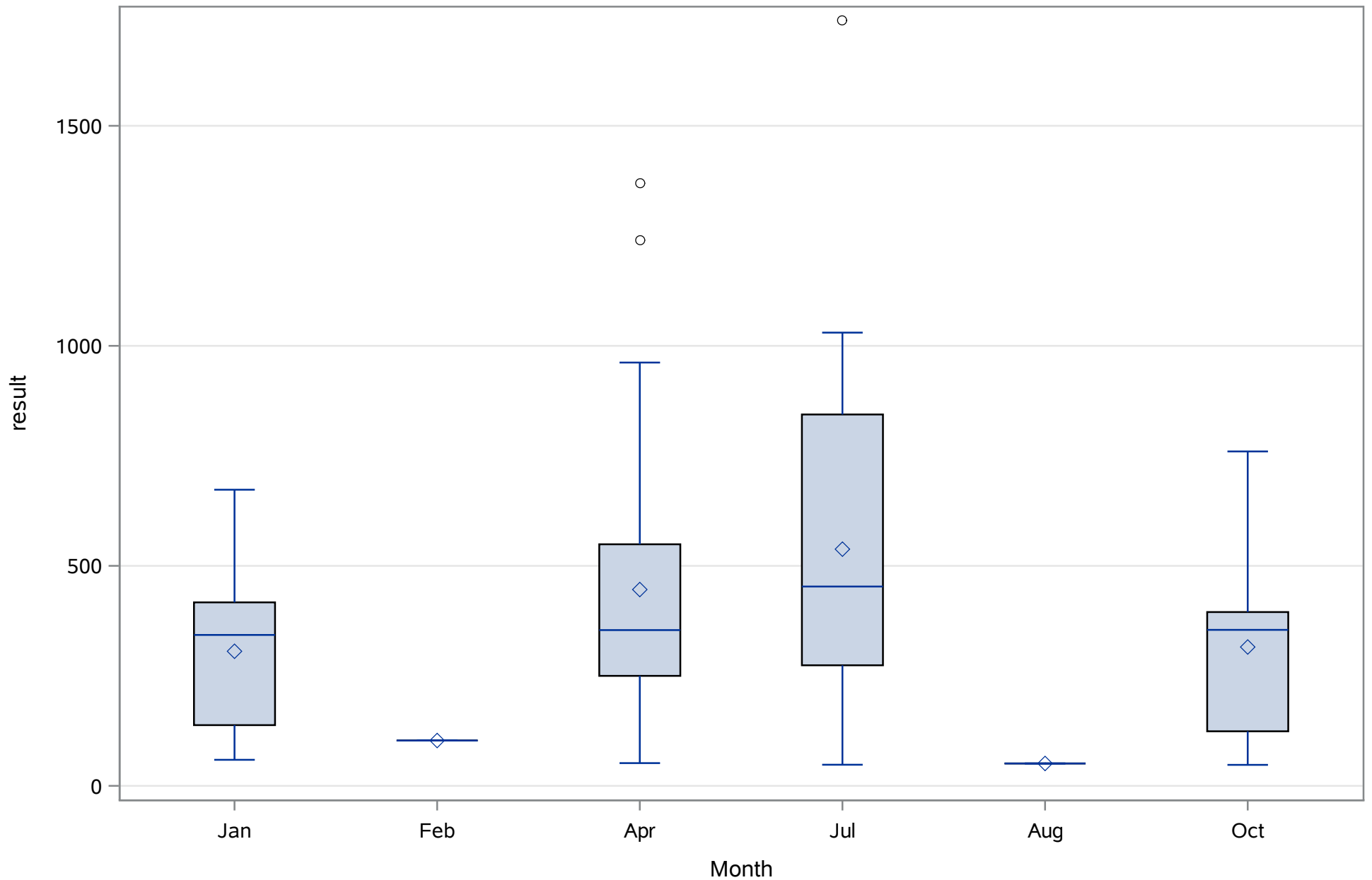
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Residues- Nonfilterable (TSS) (Total) mg/L



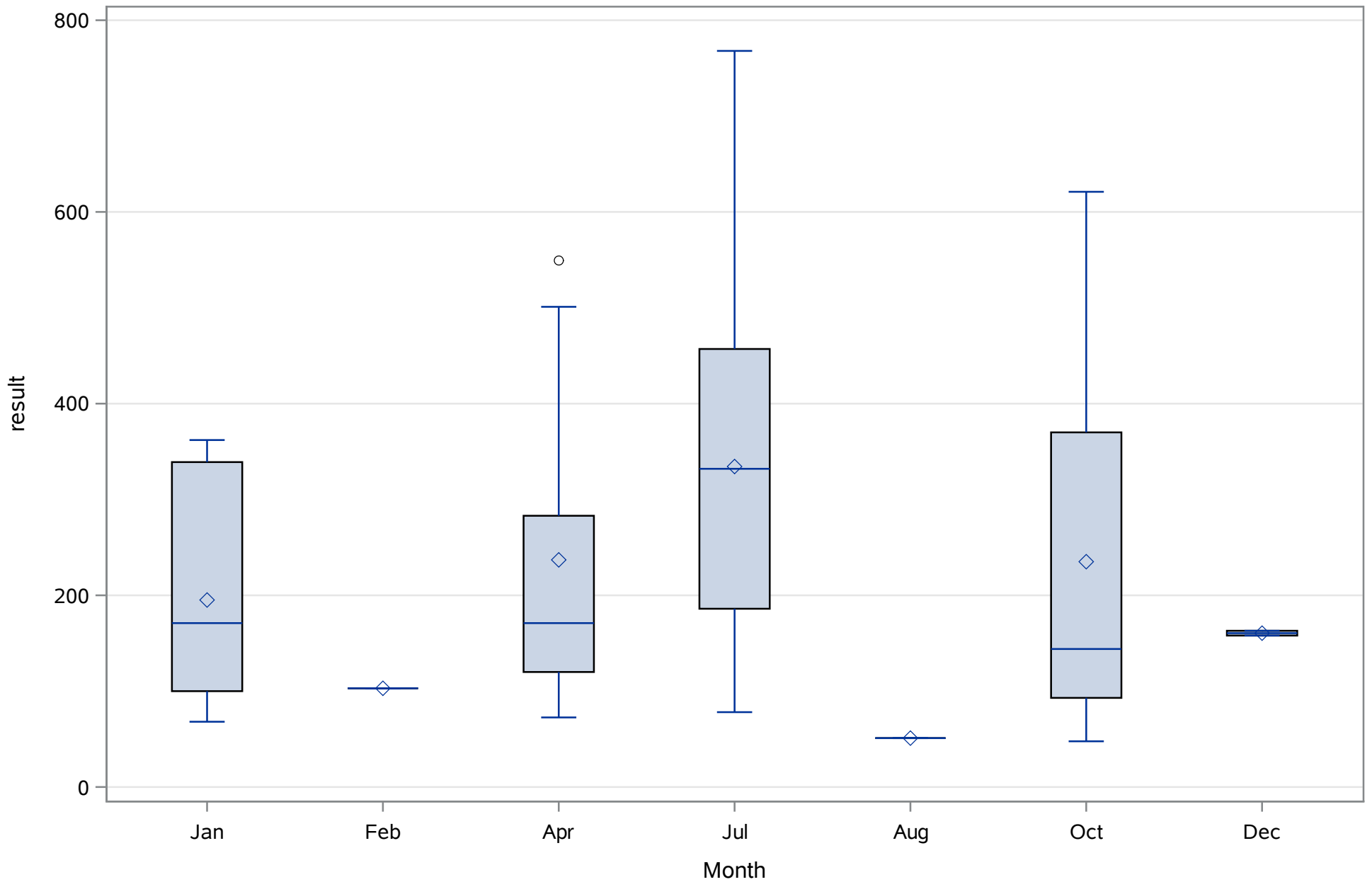
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Silica- Dissolved (Dissolved) mg/L



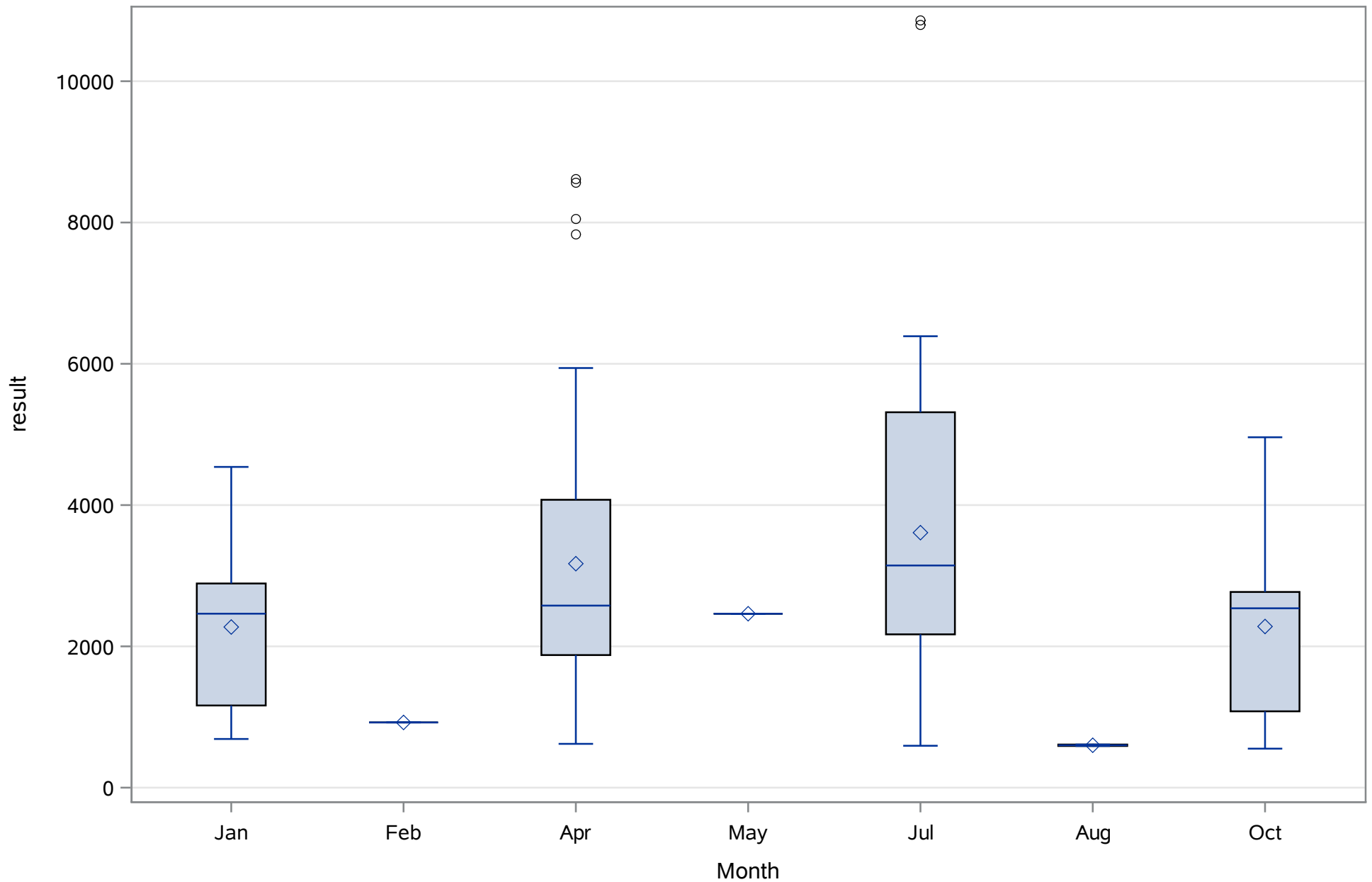
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Dissolved) mg/L



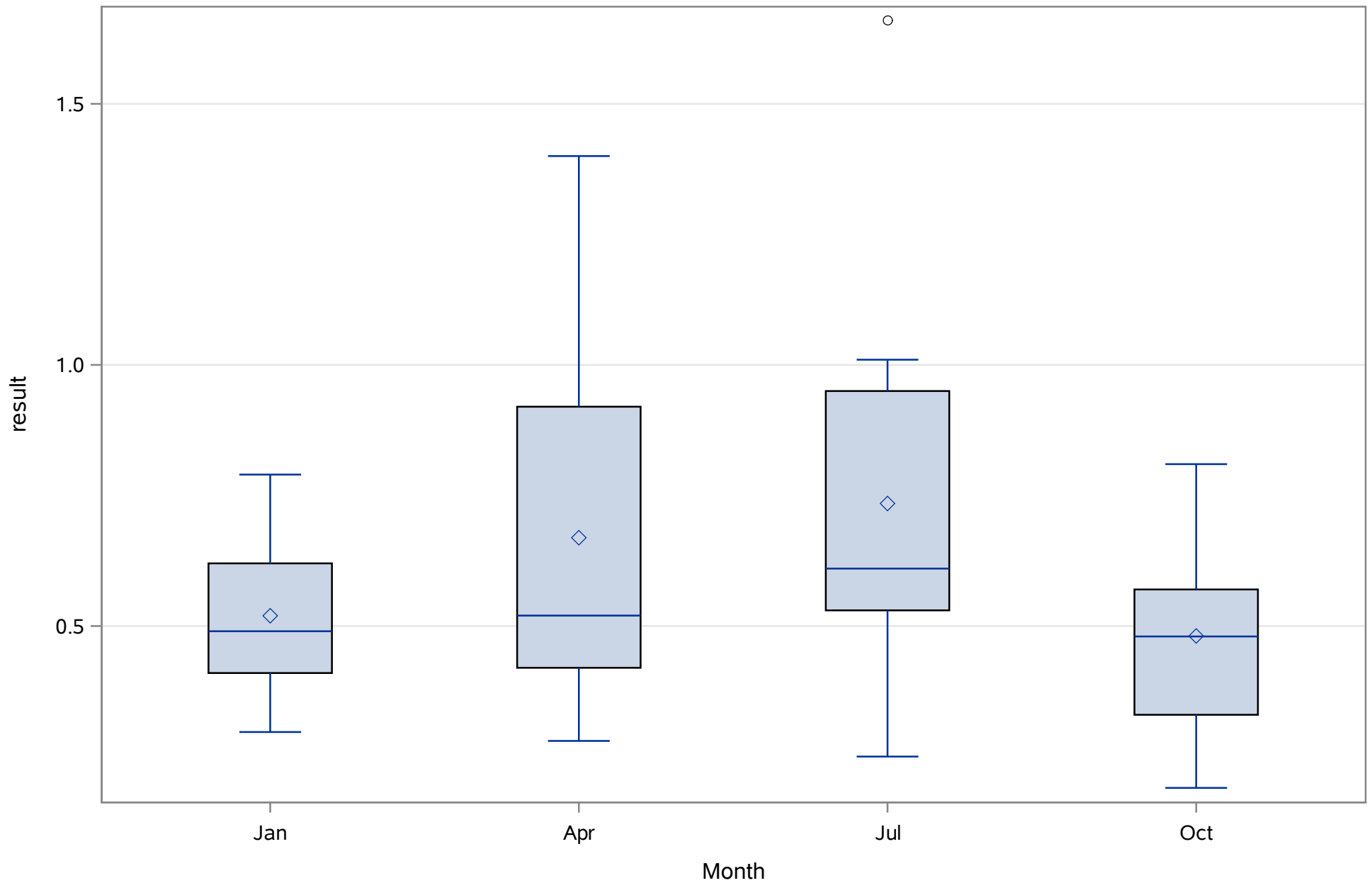
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sodium (Total) mg/L



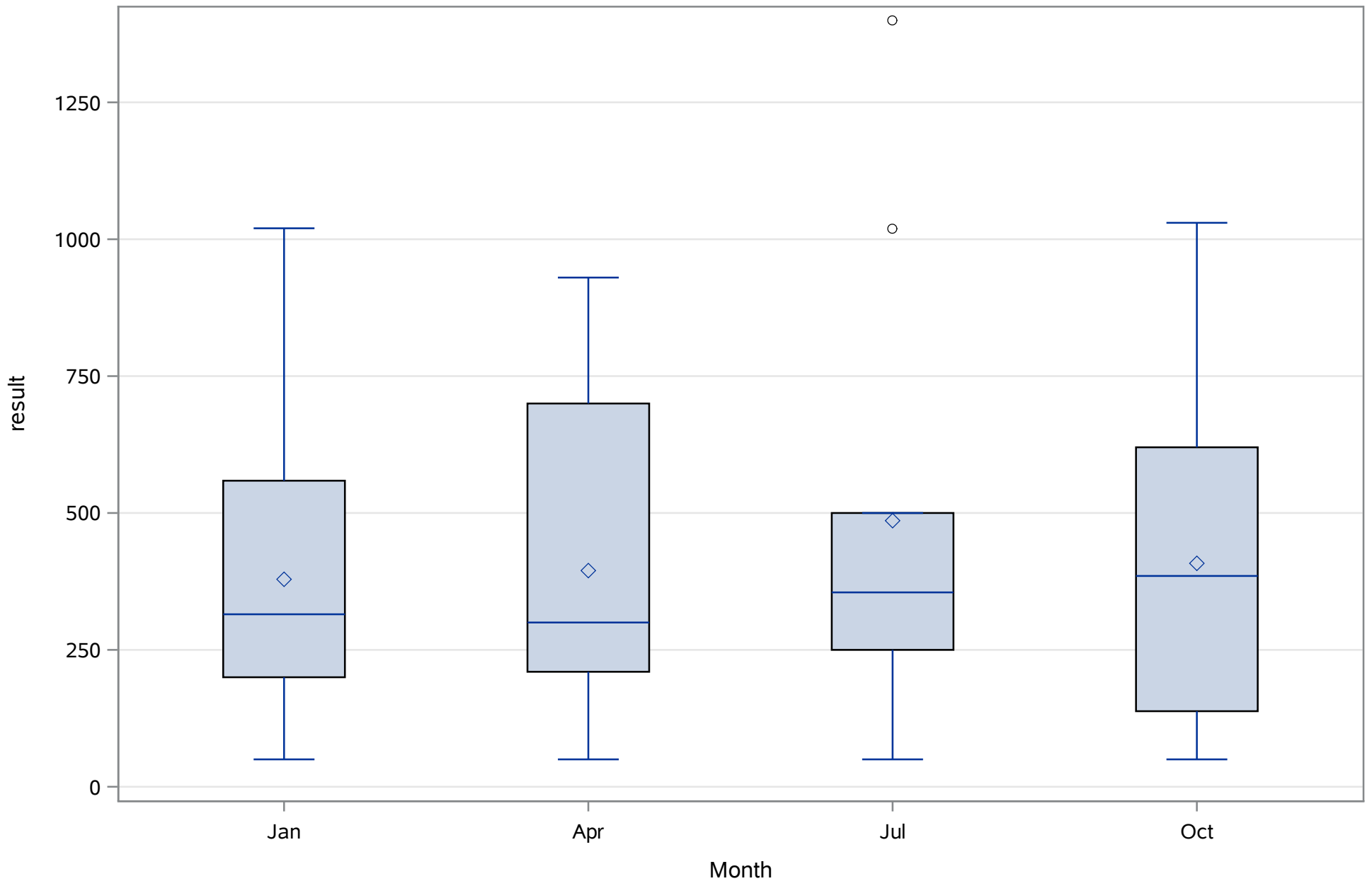
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Specific Conductance (Total) uS/cm



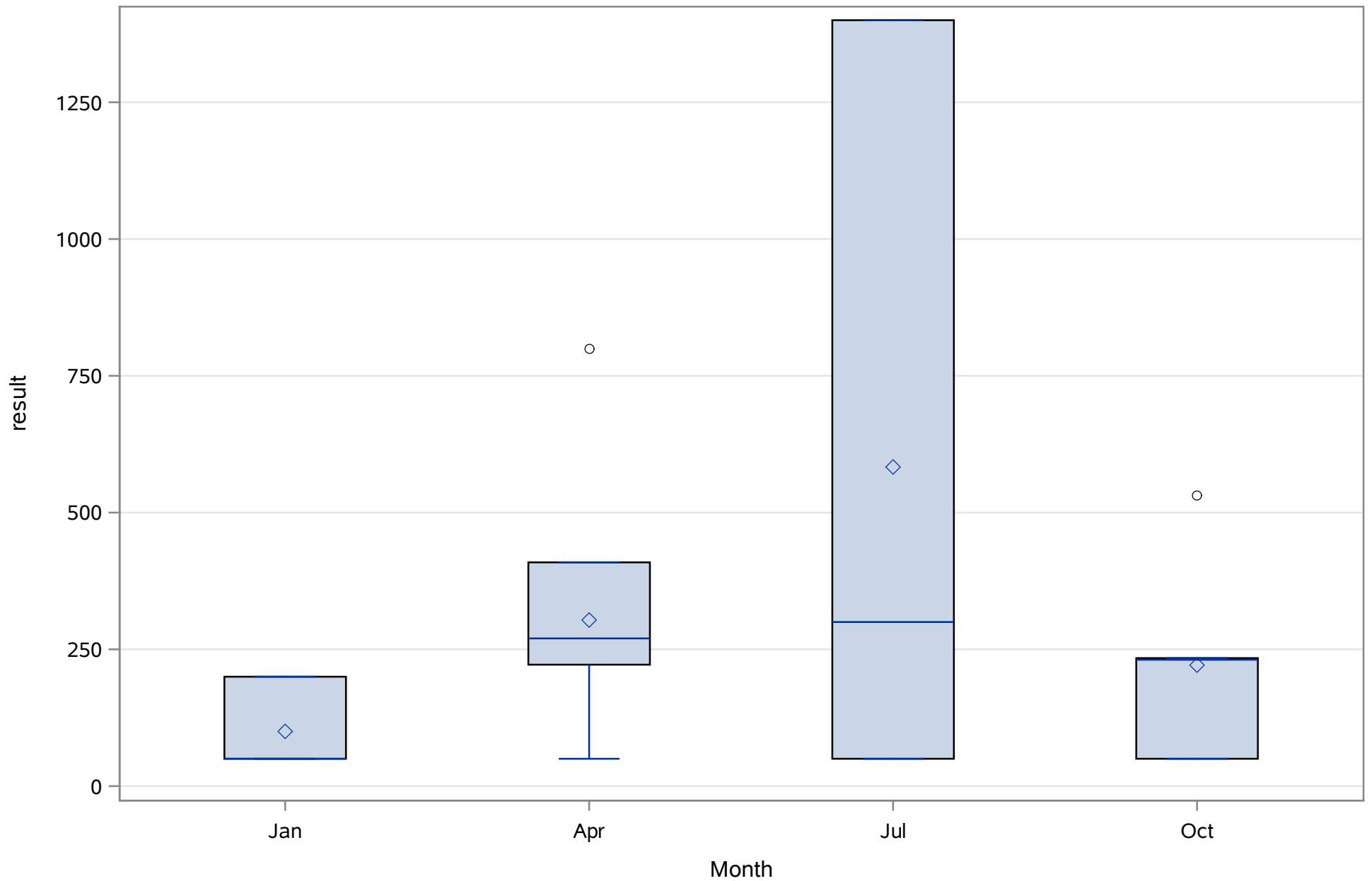
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) mg/L



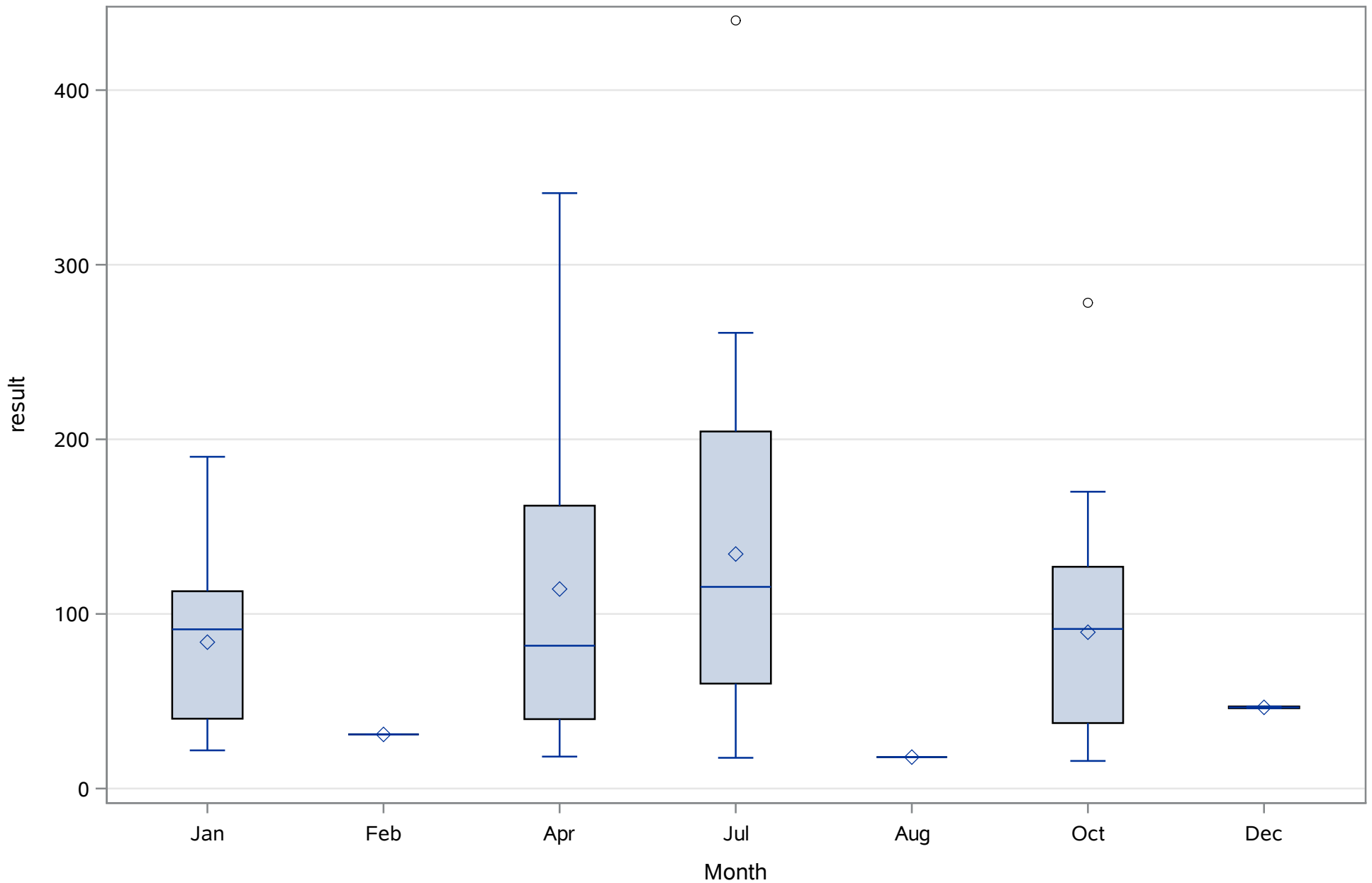
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Dissolved) ug/L



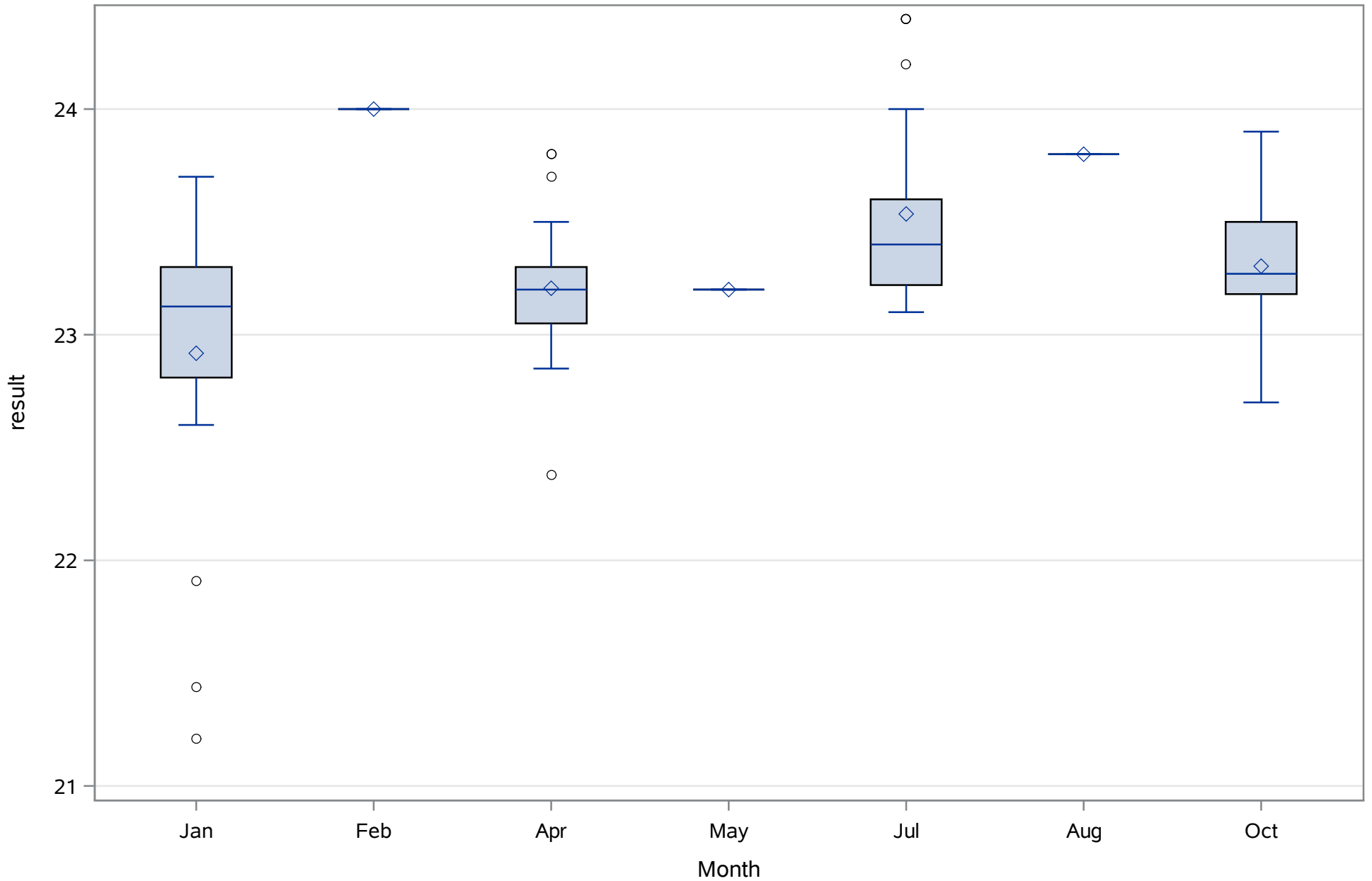
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Strontium (Total) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Sulfate (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Temperature (Total) Deg. C

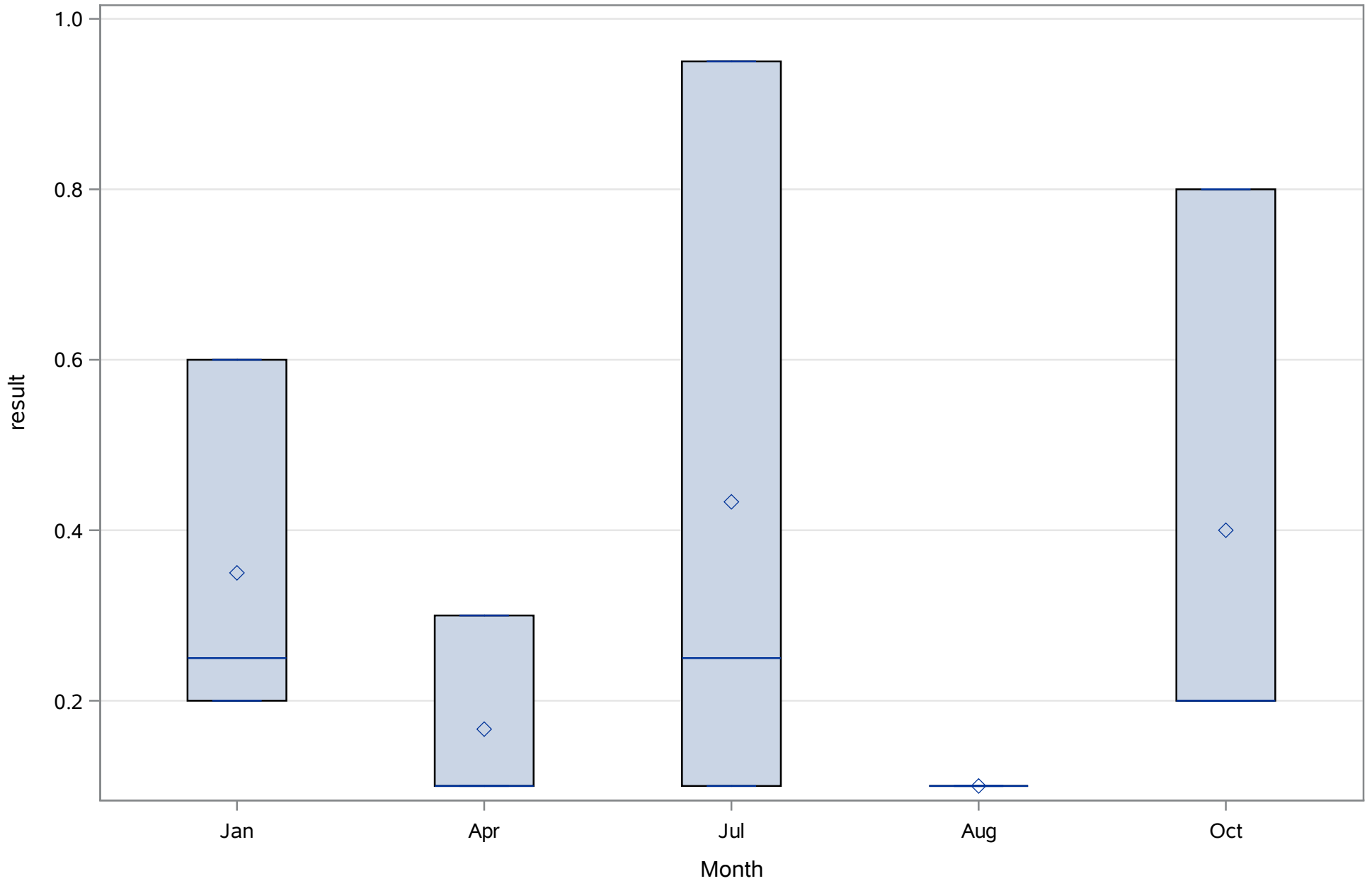


Chassahowitzka River - Fixed Station

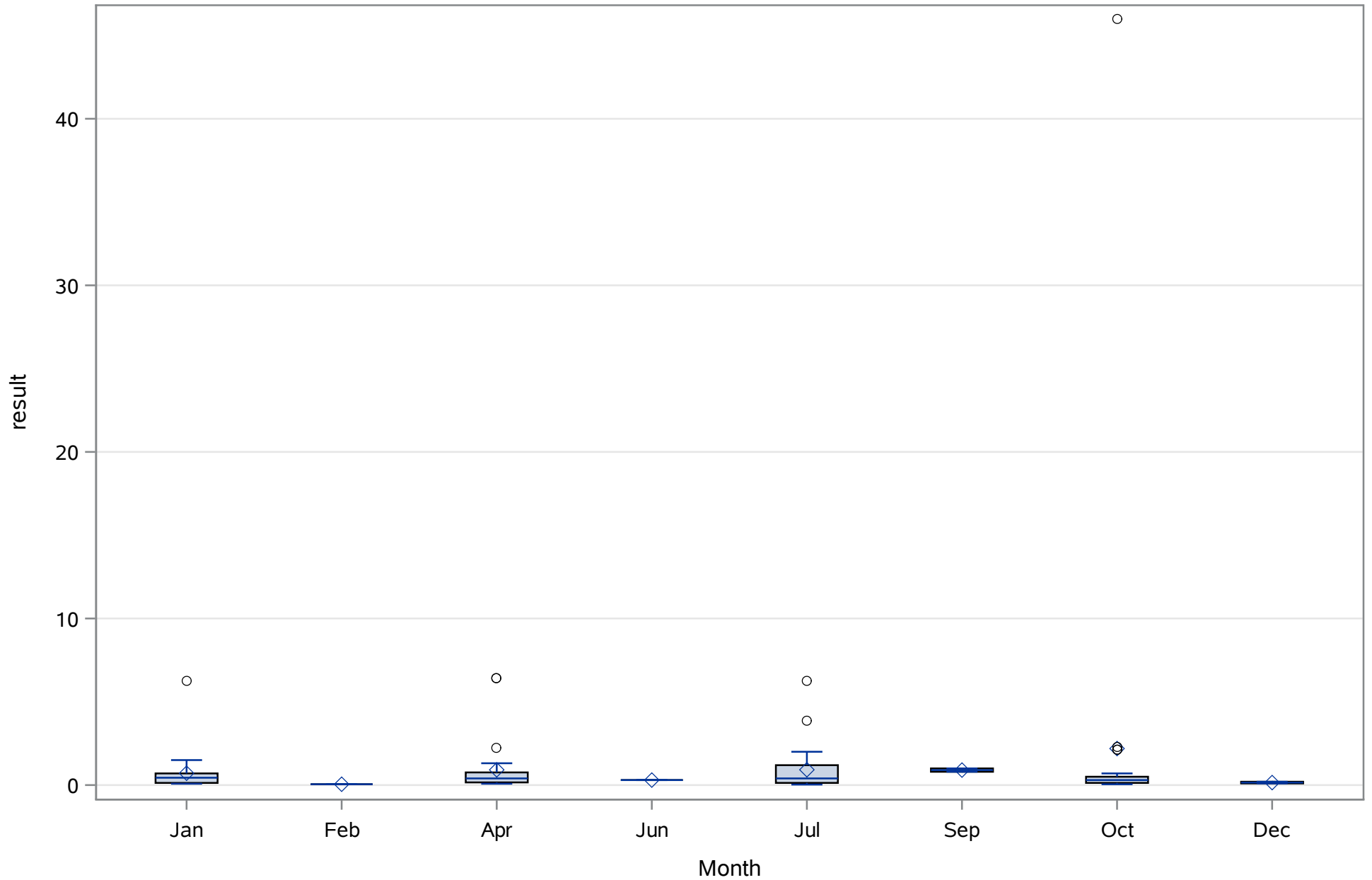
Source: Springs Data

Chassahowitzka Main Spring

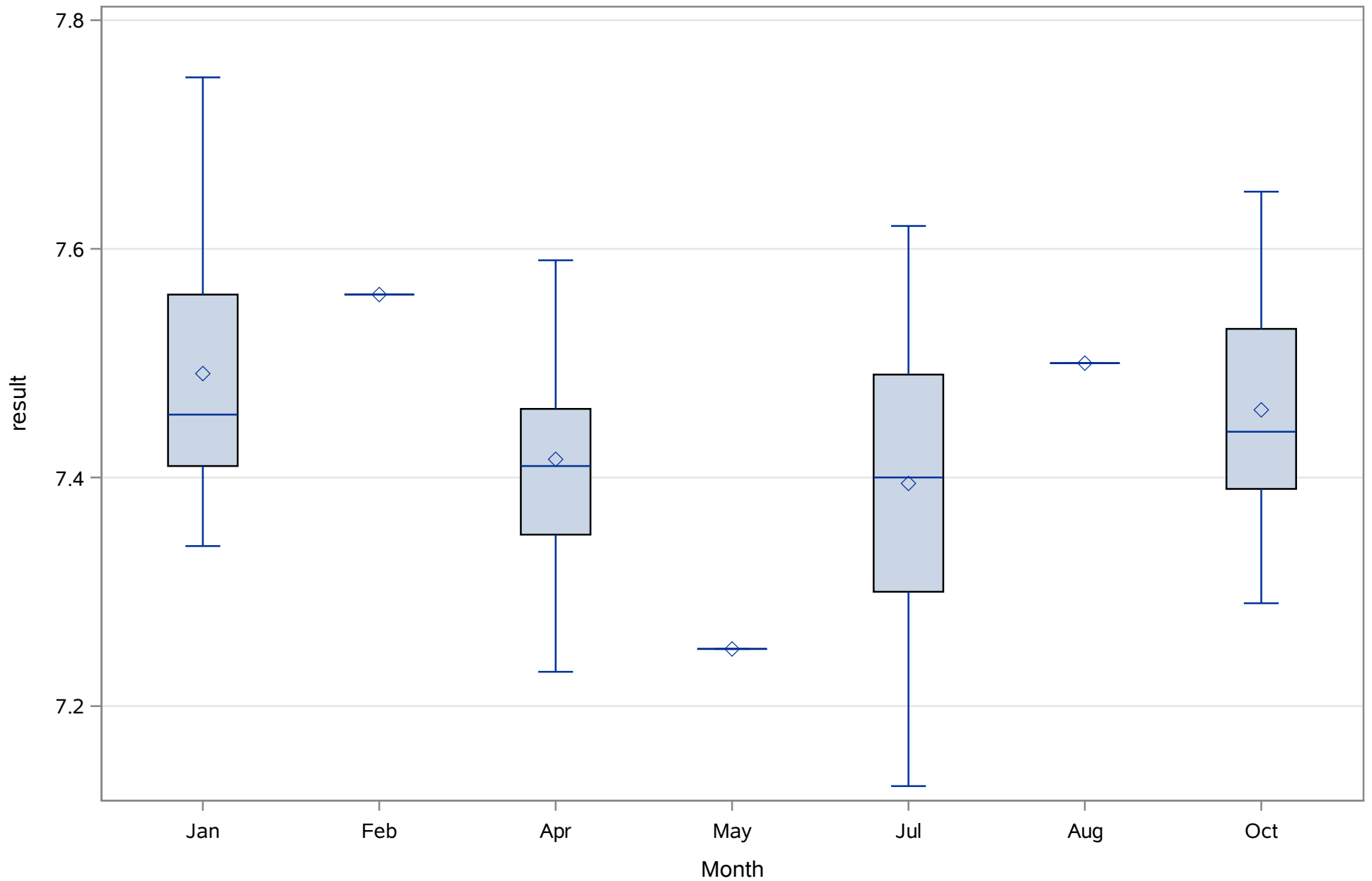
Turbidity (Total) FTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka Main Spring
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
1,1,1-Trichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1,2,2-Tetrachloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1,2-Trichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1-Dichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,1-Dichloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2,4,5-Tetrachlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2,4-Trichlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2-Dichlorobenzene (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
1,2-Dichloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,2-Dichloropropane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,3,5-Trinitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,3-Dichlorobenzene (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
1,3-Dinitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1,4-Dichlorobenzene (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
1,4-Naphthoquinone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
1-Methylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
1-Methylphenanthrene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
1-Naphthylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,3,4,6-Tetrachlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,3,5-Trimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,4,5-Trichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4,6-Trichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dimethylphenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dinitrophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,4-Dinitrotoluene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,6-Dichlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2,6-Dimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,6-Dinitrotoluene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Acetylaminofluorene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Chloroethylvinyl ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Chloronaphthalene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Chlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
2-Methylnaphthalene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
2-Naphthylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Nitroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Nitrophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
2-Picoline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3,3'-Dimethylbenzidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3,3-Dichlorobenzidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3-Methylcholanthrene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
3-Nitroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4,4'-DDD (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
4,4'-DDE (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
4,4'-DDT (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
4,6-Dinitro-2-methylphenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Aminobiphenyl (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Bromophenyl phenyl ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Chloro-3-methylphenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Chloroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Chlorophenyl phenyl ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Nitroaniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Nitrophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
4-Nitroquinoline-1-oxide (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
5-Nitro-o-toluidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
7,12-Dimethylbenz(a)-anthracene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Acenaphthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Acenaphthylene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Acetophenone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Alachlor (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Aldrin (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Alkalinity (Dissolved)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Alkalinity (Total)	mg/L	OCT1993	JUL2017	105	3.8%	1.0%	3.8%
Aluminum (Dissolved)	ug/L	OCT2002	JUL2017	25	20.0%	0.0%	4.0%
Aluminum (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Ametryn (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Dissolved)	mg/L	OCT1993	JAN2010	75	9.3%	0.0%	1.3%
Ammonia (N) (Total)	mg/L	JAN1998	JUL2017	56	0.0%	0.0%	1.8%
Aniline (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Anthracene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Antimony (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Arsenic (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Arsenic (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Atrazine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Azinphos methyl (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Azobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Barium (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Barium (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Benzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Benzdine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Benzo(a)anthracene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(a)pyrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(b)fluoranthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(g,h,i)perylene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzo(k)fluoranthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Benzyl alcohol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Beryllium (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bicarbonate (Total)	mg/L	JUL1994	APR2002	12	0.0%	0.0%	0.0%
Biphenyl	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Bis(2-chloroethoxy)methane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bis(2-chloroethyl)ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bis(2-chloroisopropyl)ether (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bis(2-ethylhexyl)phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Boron (Dissolved)	ug/L	OCT2002	JUL2017	25	0.0%	0.0%	0.0%
Boron (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Bromacil (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bromodichloromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bromoform (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Bromomethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Butyl benzyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Butylate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Cadmium (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1993	JUL2017	111	3.6%	1.8%	0.0%
Calcium (Total)	mg/L	JAN1998	AUG2005	23	4.3%	0.0%	4.3%
Carbon tetrachloride (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Carbon- Total Organic (Total)	mg/L	OCT1993	JUL2017	116	17.2%	0.9%	3.4%
Chlordane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloride (Dissolved)	mg/L	OCT1993	JUL2017	115	3.5%	1.7%	1.7%
Chloride (Total)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Chlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloroform (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chloromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chlorpyrifos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Chromium (Dissolved)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Chromium (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Chrysene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Cobalt (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Cobalt (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	JAN2002	AUG2005	15	0.0%	0.0%	6.7%
Coliform Total (Total)	cfu/100 mL	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	JAN2002	JUL2017	45	2.2%	0.0%	0.0%
Copper (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Copper (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Cyanide- Total (Total)	mg/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Depth (Total)	Meters	JAN2003	JAN2010	16	0.0%	0.0%	0.0%
Di-n-Butyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Di-n-Octyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Diazinon (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dibenzo(a,h)anthracene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Dibenzofuran (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Dibenzothiophene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dibromochloromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dieldrin (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Diethyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dimethyl phthalate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dimethylaminoazobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dinoseb (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Diphenylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Dissolved Oxygen (Total)	mg/L	APR2000	JUL2017	68	4.4%	0.0%	1.5%
Eh, Field (hydrogen electrode)	mV	APR2000	APR2002	6	0.0%	0.0%	0.0%
Endosulfan I (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endosulfan II (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endosulfan sulfate (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endrin (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Endrin aldehyde (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Enterococci (Total)	cfu/100 mL	JAN2002	AUG2005	15	0.0%	0.0%	0.0%
Escherichia Coli	cfu/100 mL	JAN2002	JAN2002	1	0.0%	0.0%	100.0%
Ethion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Ethoprop (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Ethyl methanesulfonate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Ethylbenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Fenamiphos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Fluoranthene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Fluorene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Fluoride (Dissolved)	mg/L	OCT1993	JUL2017	101	4.0%	2.0%	1.0%
Fluoride (Total)	mg/L	OCT1993	AUG2005	33	9.1%	0.0%	6.1%
Fluoride (Total)	ug/L	JUL2003	JUL2003	1	0.0%	0.0%	0.0%
Fonophos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hardness (Total)	mg/L	JAN1998	OCT2000	13	0.0%	0.0%	0.0%
Heptachlor (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Heptachlor epoxide (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
Hexachlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexachlorobutadiene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Hexachlorocyclopentadiene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexachloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexachloropropene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Hexazinone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Indeno(1,2,3-cd)pyrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	OCT1993	JUL2017	107	1.9%	0.9%	0.9%
Iron (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Isophorone (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Isosafrole (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Lead (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Lead (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	OCT1993	JUL2017	104	2.9%	1.9%	1.9%
Magnesium (Total)	mg/L	OCT1993	AUG2005	27	3.7%	0.0%	3.7%
Malathion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Manganese (Dissolved)	ug/L	OCT2002	JUL2017	25	4.0%	0.0%	0.0%
Manganese (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Mercury (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Metalaxyl (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methapyrilene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methoxychlor (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methyl chlorpyrifos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methyl methanesulfonate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methyl parathion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Methylene chloride (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Metolachlor (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Metribuzin (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Mevinphos (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodi-n-propylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodibutylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodiethylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodimethylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosodiphenylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosomethylethylamine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
N-Nitrosomorpholine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosopiperidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
N-Nitrosopyrrolidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Naled (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Naphthalene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Nickel (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Nickel (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Nitrate (N) (Dissolved)	mg/L	OCT1993	JAN2005	41	0.0%	0.0%	2.4%
Nitrate (N) (Total)	mg/L	JUL1995	OCT1999	12	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	OCT1993	JAN2010	73	2.7%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JUL2000	JUL2017	46	2.2%	0.0%	2.2%
Nitrite (N) (Dissolved)	mg/L	OCT1993	JAN2010	37	10.8%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	APR1998	JUL2017	40	12.5%	0.0%	0.0%
Nitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Nitrogen- Organic (Dissolved)	mg/L	OCT1993	JUL1998	17	0.0%	0.0%	0.0%
Nitrogen- Total (Dissolved)	mg/L	APR2002	OCT2009	16	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	OCT1997	JUL2017	64	4.7%	0.0%	3.1%
Nitrogen- Total Kjeldahl (Dissolved)	mg/L	JAN2002	AUG2005	15	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	OCT1993	JAN2010	21	4.8%	0.0%	4.8%
Nitrogen15/Nitrogen14 Isotope Ratio	per mil	JUL2003	JUL2005	2	0.0%	0.0%	0.0%
Norflurazon (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1993	JUL2017	116	2.6%	0.9%	0.9%
PCB-1016 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1221 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1232 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1242 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1248 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1254 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
PCB-1260 (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Parathion (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Pentachlorobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Pentachloroethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Pentachloronitrobenzene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Pentachlorophenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phenacetin (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phenanthrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Phenol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phorate (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Phosphorus (Dissolved)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	7.1%
Phosphorus- Total (Total)	mg/L	OCT1993	JUL2017	115	7.0%	0.0%	2.6%
Potassium (Dissolved)	mg/L	OCT1993	JUL2017	104	3.8%	1.9%	1.9%
Potassium (Total)	mg/L	OCT1993	AUG2005	33	3.0%	0.0%	3.0%
Prometryn (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Purge Volume (Total)	Gallons	OCT1999	JUL2007	23	4.3%	0.0%	4.3%
Pyrene (Total)	ug/L	JUL2002	MAY2010	2	0.0%	0.0%	0.0%
Pyridine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1993	JUL2017	113	3.5%	0.9%	1.8%
Residues- Nonfilterable (TSS) (Total)	mg/L	JAN2002	AUG2005	15	0.0%	0.0%	0.0%
Safrole (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Selenium (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Selenium (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
Silica- Dissolved (Dissolved)	mg/L	APR2001	JUL2017	60	0.0%	0.0%	0.0%
Silver (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Simazine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Sodium (Dissolved)	mg/L	OCT1993	JUL2017	104	2.9%	1.9%	1.9%
Sodium (Total)	mg/L	OCT1993	AUG2005	31	3.2%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	OCT1993	JUL2017	189	3.2%	1.1%	2.1%
Stage (Total)	Ft.	JUL2004	JUL2004	1	0.0%	0.0%	100.0%
Strontium (Dissolved)	mg/L	JUL2005	JUL2017	46	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	APR1996	APR2005	40	0.0%	0.0%	0.0%
Strontium (Total)	ug/L	JUL1997	APR2005	18	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1993	JUL2017	115	2.6%	1.7%	1.7%
Sulfate (Total)	mg/L	JAN2002	AUG2005	14	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	OCT1993	JUL2017	95	7.4%	0.0%	2.1%
Tetrachloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Thallium (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Tin (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Tin (Total)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Toluene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Total Recoverable Pet. Hydrocarbons	mg/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Toxaphene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Transparency (Total)	Meters	JUL2004	AUG2005	5	0.0%	0.0%	0.0%
Trichloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Trichlorofluoromethane (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Turbidity (Total)	FTU	JAN2002	AUG2005	14	21.4%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1993	JUL2017	102	6.9%	1.0%	2.0%
Uranium (234/238) Isotope Ratio	Ratio	APR1995	APR1995	1	0.0%	0.0%	100.0%
Uranium (Total)	ug/L	APR1995	APR1995	1	0.0%	0.0%	100.0%
Vinyl chloride (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Xylene, m,p- (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Xylene, o- (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
Zinc (Dissolved)	ug/L	OCT2002	APR2005	6	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	JUL2002	APR2005	7	0.0%	0.0%	0.0%
a-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
b-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
cis-1,3-Dichloropropene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
d-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
g-BHC (Total)	ug/L	JUL2002	JUL2002	2	0.0%	0.0%	0.0%
m,p-Cresols (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
o-Cresol (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
o-Toluidine (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
pH (Total)	SU	OCT1993	JUL2017	95	3.2%	0.0%	2.1%
trans-1,2-Dichloroethene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%
trans-1,3-Dichloropropene (Total)	ug/L	JUL2002	JUL2002	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	105	Sum Weights	105
Mean	147.617429	Sum Observations	15499.83
Std Deviation	30.2322833	Variance	913.990952
Skewness	-4.4318982	Kurtosis	19.4726218
Uncorrected SS	2383100.11	Corrected SS	95055.059
Coeff Variation	20.4801585	Std Error Mean	2.95036875

Basic Statistical Measures			
Location		Variability	
Mean	147.6174	Std Deviation	30.23228
Median	153.2000	Variance	913.99095
Mode	143.0000	Range	167.90000
		Interquartile Range	13.00000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	50.03355	Pr > t 	<.0001
Sign	M	52.5	Pr >= M 	<.0001
Signed Rank	S	2782.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	168.9
99%	166.0
95%	164.8
90%	163.2
75% Q3	159.0
50% Median	153.2
25% Q1	146.0
10%	142.0
5%	139.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

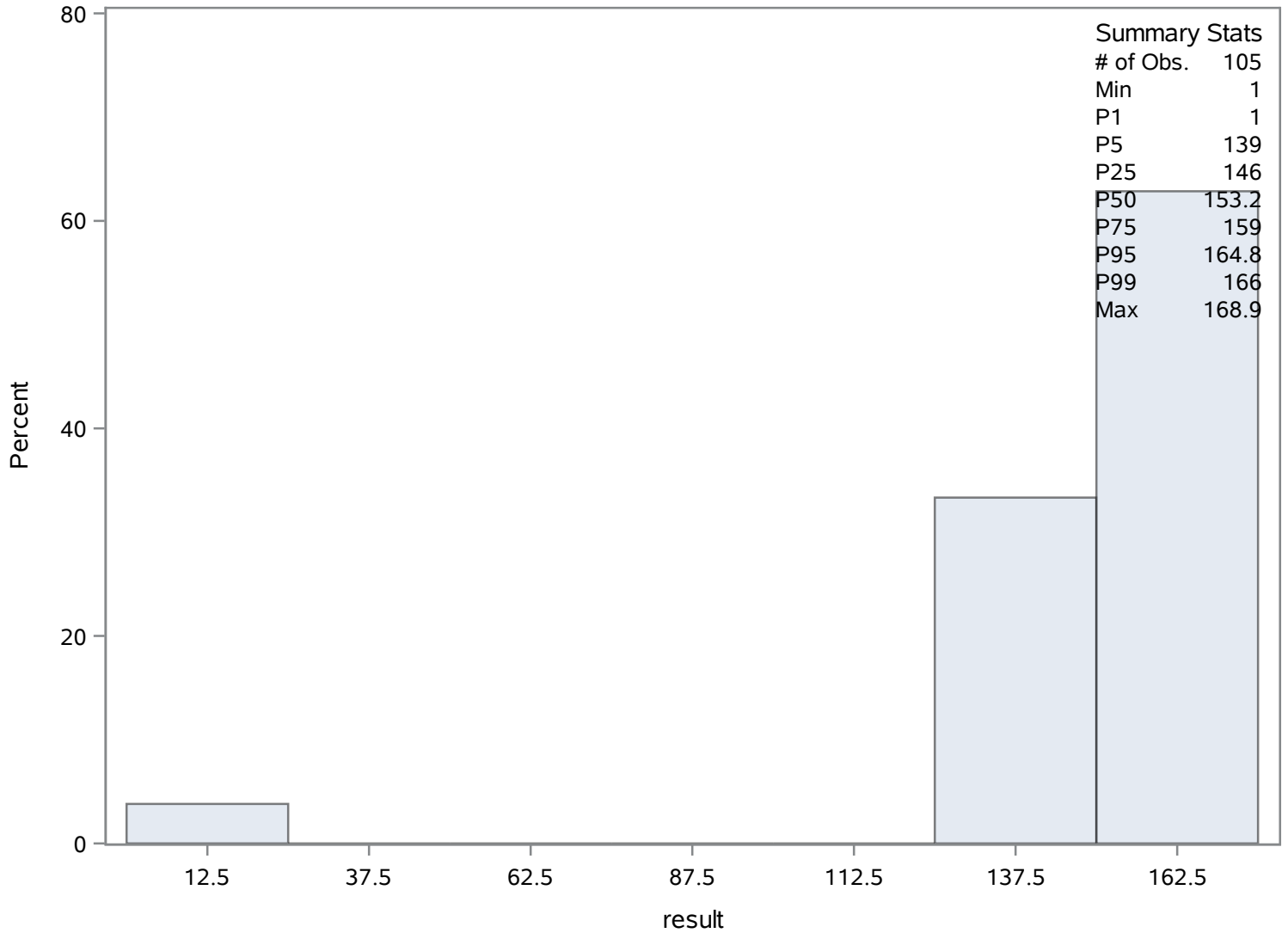
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	39	164.9	94
1	37	165.5	97
1	32	165.6	93
1	31	166.0	89
139	20	168.9	105

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Aluminum (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	8.116	Sum Observations	202.9
Std Deviation	4.50515261	Variance	20.2964
Skewness	2.40499259	Kurtosis	5.87518871
Uncorrected SS	2133.85	Corrected SS	487.1136
Coeff Variation	55.5095195	Std Error Mean	0.90103052

Basic Statistical Measures			
Location		Variability	
Mean	8.116000	Std Deviation	4.50515
Median	6.300000	Variance	20.29640
Mode	6.300000	Range	19.00000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.007464	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.0
99%	24.0
95%	16.0
90%	15.4
75% Q3	6.3
50% Median	6.3
25% Q1	6.3
10%	5.0
5%	5.0
1%	5.0
0% Min	5.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Aluminum (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

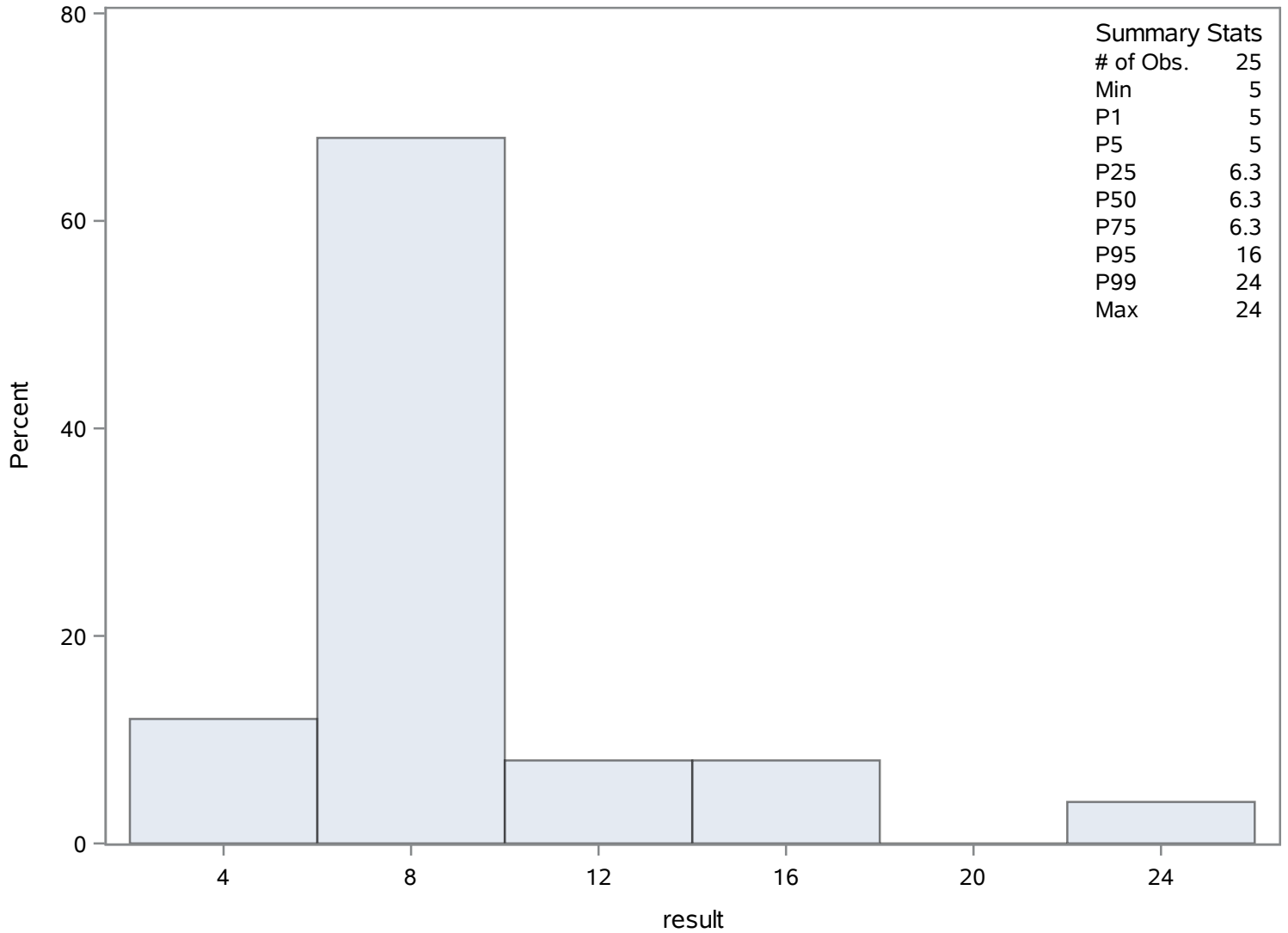
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.0	111	11.8	124
5.0	110	12.9	130
5.0	109	15.4	125
6.3	129	16.0	107
6.3	128	24.0	106

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Aluminum (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	75	Sum Weights	75
Mean	0.01253333	Sum Observations	0.94
Std Deviation	0.01452522	Variance	0.00021098
Skewness	5.89935369	Kurtosis	41.3784954
Uncorrected SS	0.027394	Corrected SS	0.01561267
Coeff Variation	115.892703	Std Error Mean	0.00167723

Basic Statistical Measures			
Location		Variability	
Mean	0.012533	Std Deviation	0.01453
Median	0.010000	Variance	0.0002110
Mode	0.010000	Range	0.11800
		Interquartile Range	0.00200

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.472648	Pr > t 	<.0001
Sign	M	37.5	Pr >= M 	<.0001
Signed Rank	S	1425	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.120
99%	0.120
95%	0.037
90%	0.019
75% Q3	0.010
50% Median	0.010
25% Q1	0.008
10%	0.005
5%	0.005
1%	0.002
0% Min	0.002

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

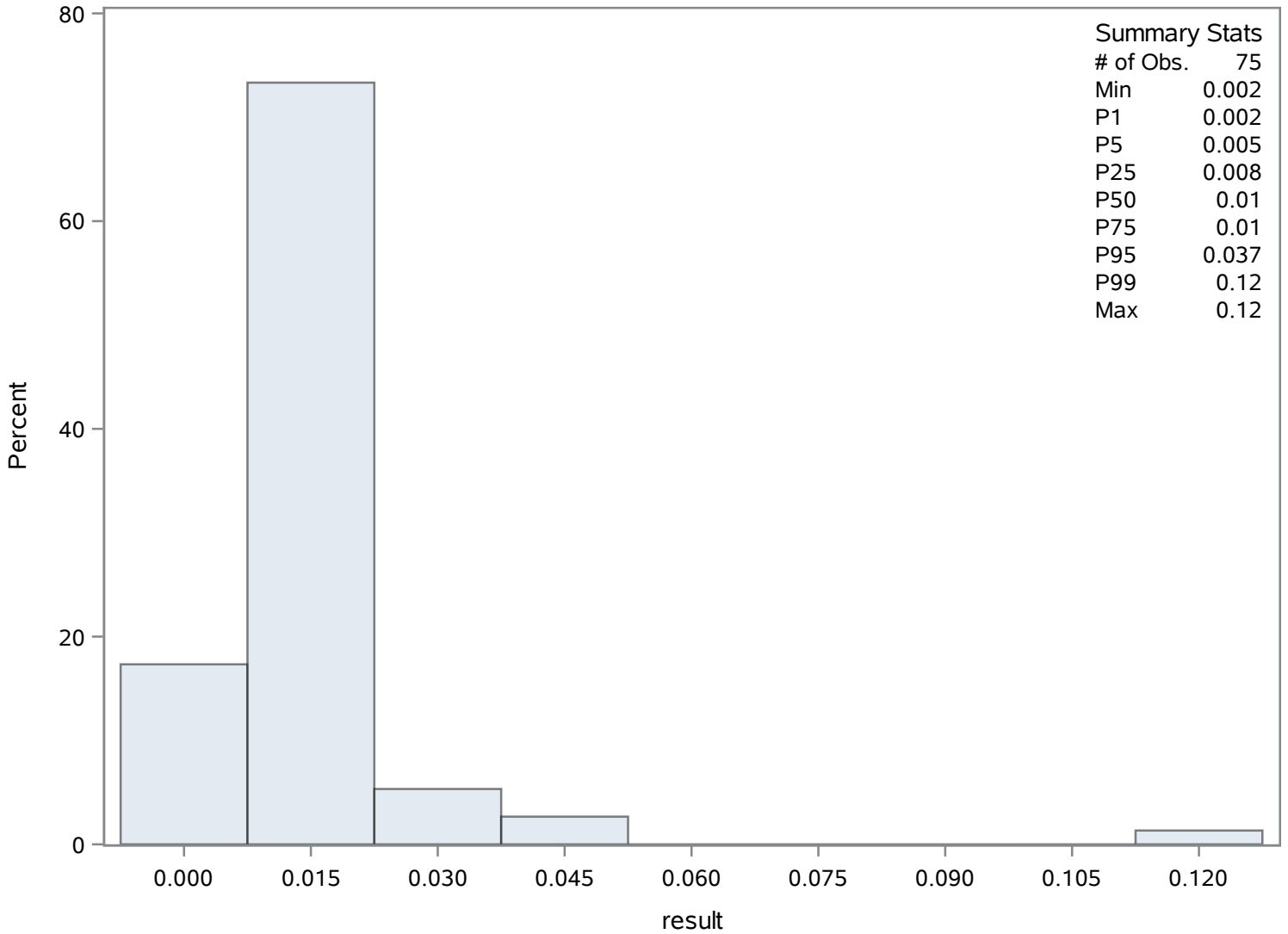
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	132	0.030	140
0.005	199	0.037	169
0.005	198	0.040	137
0.005	197	0.041	138
0.005	195	0.120	170

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	56	Sum Weights	56
Mean	0.01010357	Sum Observations	0.5658
Std Deviation	0.00247254	Variance	6.11344E-6
Skewness	5.88072377	Kurtosis	41.2918392
Uncorrected SS	0.00605284	Corrected SS	0.00033624
Coeff Variation	24.4719156	Std Error Mean	0.00033041

Basic Statistical Measures			
Location		Variability	
Mean	0.010104	Std Deviation	0.00247
Median	0.010000	Variance	6.11344E-6
Mode	0.010000	Range	0.02000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	30.57919	Pr > t 	<.0001
Sign	M	28	Pr >= M 	<.0001
Signed Rank	S	798	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.027
99%	0.027
95%	0.010
90%	0.010
75% Q3	0.010
50% Median	0.010
25% Q1	0.010
10%	0.010
5%	0.007
1%	0.007
0% Min	0.007

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

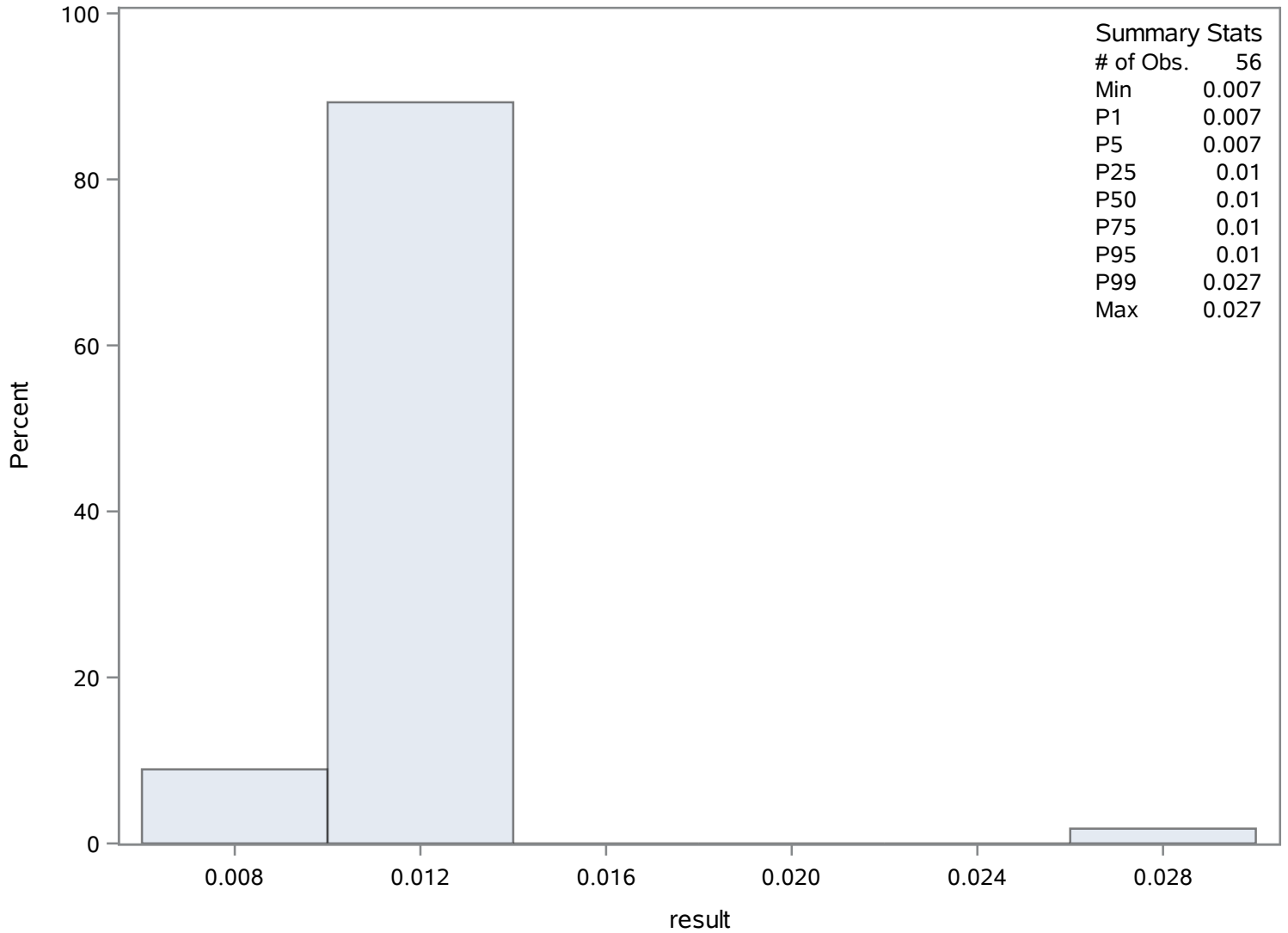
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	235	0.0100	258
0.007	234	0.0100	260
0.007	233	0.0100	261
0.007	232	0.0128	259
0.008	231	0.0270	217

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Boron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	63.052	Sum Observations	1576.3
Std Deviation	28.078493	Variance	788.401767
Skewness	1.15301033	Kurtosis	0.77690695
Uncorrected SS	118310.51	Corrected SS	18921.6424
Coeff Variation	44.5322796	Std Error Mean	5.61569859

Basic Statistical Measures			
Location		Variability	
Mean	63.05200	Std Deviation	28.07849
Median	51.00000	Variance	788.40177
Mode	.	Range	104.00000
		Interquartile Range	27.70000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.22781	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	130.0
99%	130.0
95%	124.0
90%	118.0
75% Q3	75.8
50% Median	51.0
25% Q1	48.1
10%	38.0
5%	28.0
1%	26.0
0% Min	26.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Boron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

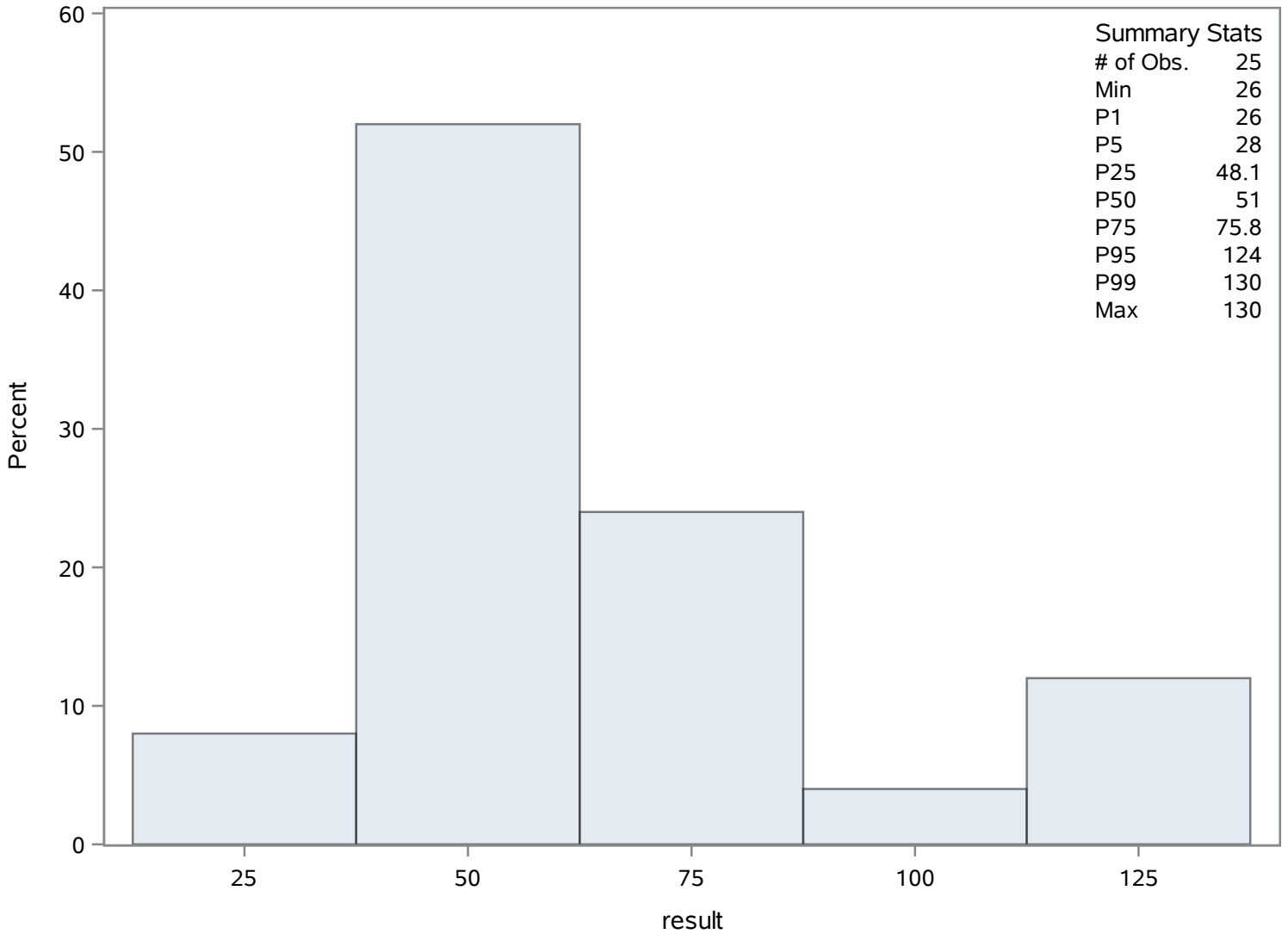
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
26.0	267	78.1	270
28.0	266	91.8	282
38.0	263	118.0	285
38.1	272	124.0	286
39.0	264	130.0	278

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Boron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	111	Sum Weights	111
Mean	57.1000901	Sum Observations	6338.11
Std Deviation	6.16269901	Variance	37.9788591
Skewness	0.66465068	Kurtosis	0.53230293
Uncorrected SS	366084.327	Corrected SS	4177.6745
Coeff Variation	10.7928009	Std Error Mean	0.5849375

Basic Statistical Measures			
Location		Variability	
Mean	57.10009	Std Deviation	6.16270
Median	56.40000	Variance	37.97886
Mode	50.00000	Range	32.20000
		Interquartile Range	7.80000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	97.61742	Pr > t 	<.0001
Sign	M	55.5	Pr >= M 	<.0001
Signed Rank	S	3108	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	75.1
99%	73.9
95%	68.2
90%	65.2
75% Q3	60.4
50% Median	56.4
25% Q1	52.6
10%	50.0
5%	49.1
1%	46.4
0% Min	42.9

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

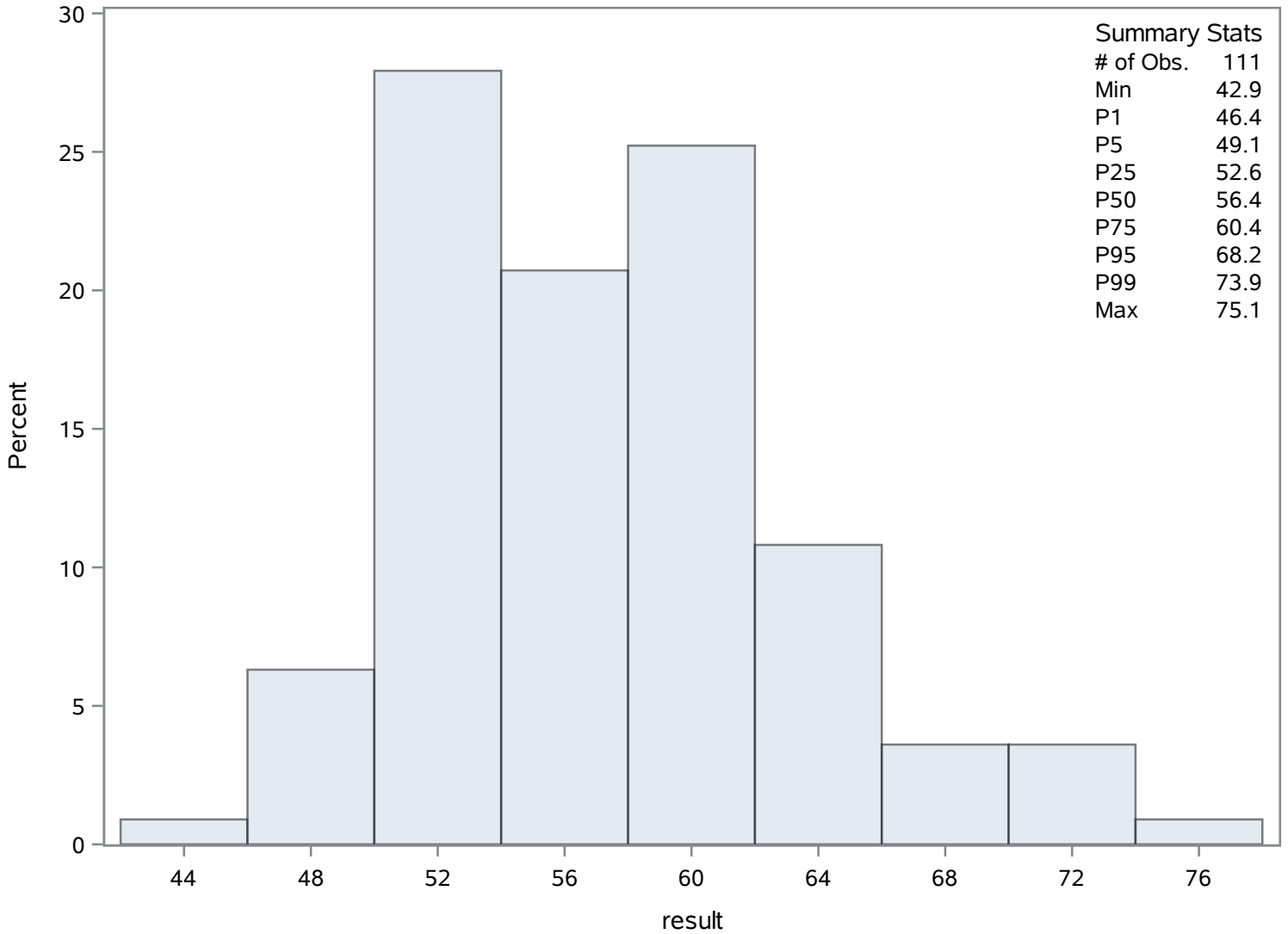
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
42.9	349	70.1	318
46.4	350	72.6	323
46.4	342	73.6	319
48.8	309	73.9	357
49.1	378	75.1	372

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Calcium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	23	Sum Weights	23
Mean	53.2869565	Sum Observations	1225.6
Std Deviation	4.73106795	Variance	22.383004
Skewness	2.01858419	Kurtosis	6.48738685
Uncorrected SS	65800.92	Corrected SS	492.426087
Coeff Variation	8.87847282	Std Error Mean	0.98649586

Basic Statistical Measures			
Location		Variability	
Mean	53.28696	Std Deviation	4.73107
Median	54.00000	Variance	22.38300
Mode	54.60000	Range	21.90000
		Interquartile Range	5.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	54.0164	Pr > t 	<.0001
Sign	M	11.5	Pr >= M 	<.0001
Signed Rank	S	138	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	70.1
99%	70.1
95%	57.7
90%	57.0
75% Q3	55.0
50% Median	54.0
25% Q1	49.5
10%	48.8
5%	48.5
1%	48.2
0% Min	48.2

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

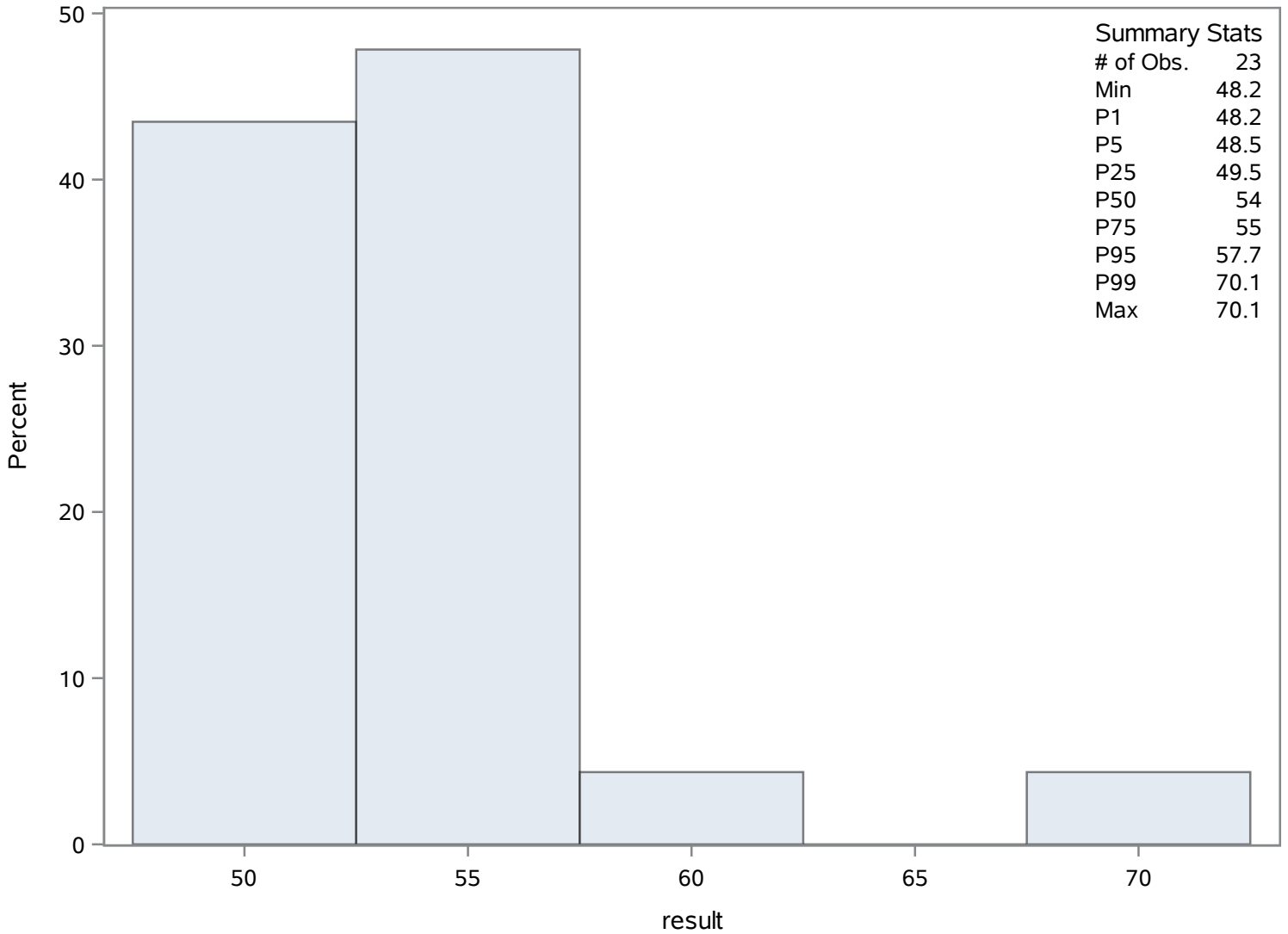
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
48.2	401	55.4	404
48.5	419	56.2	415
48.8	398	57.0	408
48.9	410	57.7	405
49.1	400	70.1	406

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	116	Sum Weights	116
Mean	0.45390517	Sum Observations	52.653
Std Deviation	0.41441366	Variance	0.17173868
Skewness	2.54642914	Kurtosis	6.79952419
Uncorrected SS	43.649417	Corrected SS	19.749948
Coeff Variation	91.2996107	Std Error Mean	0.03847734

Basic Statistical Measures			
Location		Variability	
Mean	0.453905	Std Deviation	0.41441
Median	0.300000	Variance	0.17174
Mode	0.300000	Range	2.15000
		Interquartile Range	0.27000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.79669	Pr > t 	<.0001
Sign	M	58	Pr >= M 	<.0001
Signed Rank	S	3393	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.20
99%	2.10
95%	1.40
90%	1.00
75% Q3	0.50
50% Median	0.30
25% Q1	0.23
10%	0.20
5%	0.16
1%	0.07
0% Min	0.05

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Carbon- Total Organic (Total) mg/L

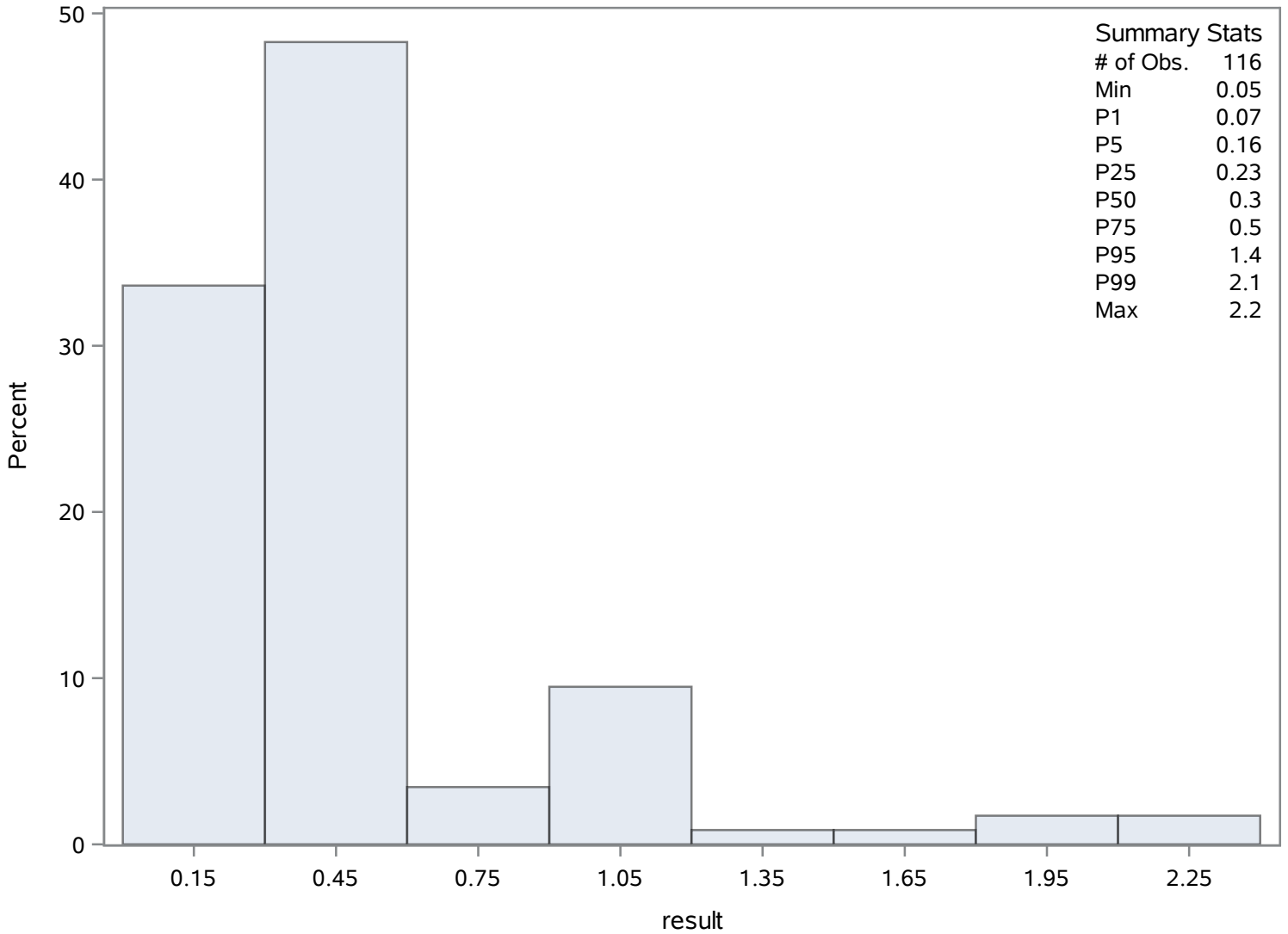
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.05	428	1.6	485
0.07	421	2.0	466
0.13	515	2.0	467
0.13	513	2.1	479
0.13	512	2.2	453

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	115	Sum Weights	115
Mean	231.895304	Sum Observations	26667.96
Std Deviation	161.024402	Variance	25928.8582
Skewness	1.58355008	Kurtosis	2.97789456
Uncorrected SS	9140064.53	Corrected SS	2955889.83
Coeff Variation	69.4384058	Std Error Mean	15.015603

Basic Statistical Measures			
Location		Variability	
Mean	231.8953	Std Deviation	161.02440
Median	181.0000	Variance	25929
Mode	249.0000	Range	813.00000
		Interquartile Range	198.00000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.44362	Pr > t 	<.0001
Sign	M	57.5	Pr >= M 	<.0001
Signed Rank	S	3335	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	873.0
99%	833.0
95%	585.0
90%	467.0
75% Q3	307.0
50% Median	181.0
25% Q1	109.0
10%	77.0
5%	65.4

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	62.0
0% Min	60.0

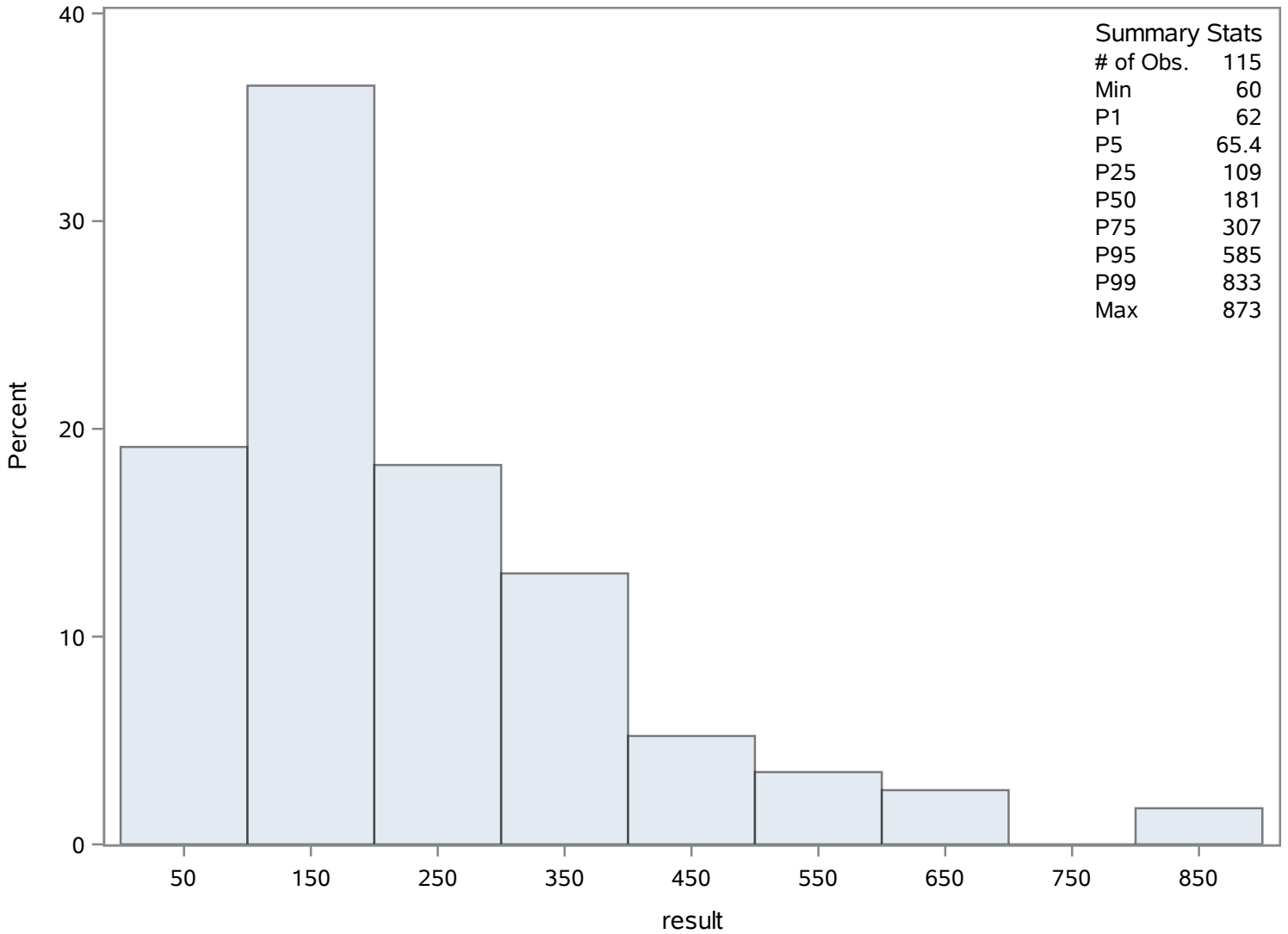
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
60.0	548	611	630
62.0	606	618	618
62.3	567	653	574
62.3	566	833	626
63.0	604	873	611

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	2.01777778	Sum Observations	90.8
Std Deviation	2.13374286	Variance	4.55285859
Skewness	0.72828614	Kurtosis	-1.5353233
Uncorrected SS	383.54	Corrected SS	200.325778
Coeff Variation	105.747168	Std Error Mean	0.31807961

Basic Statistical Measures			
Location		Variability	
Mean	2.017778	Std Deviation	2.13374
Median	0.500000	Variance	4.55286
Mode	0.500000	Range	4.50000
		Interquartile Range	4.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.343625	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.0
99%	5.0
95%	5.0
90%	5.0
75% Q3	5.0
50% Median	0.5
25% Q1	0.5
10%	0.5
5%	0.5
1%	0.5
0% Min	0.5

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

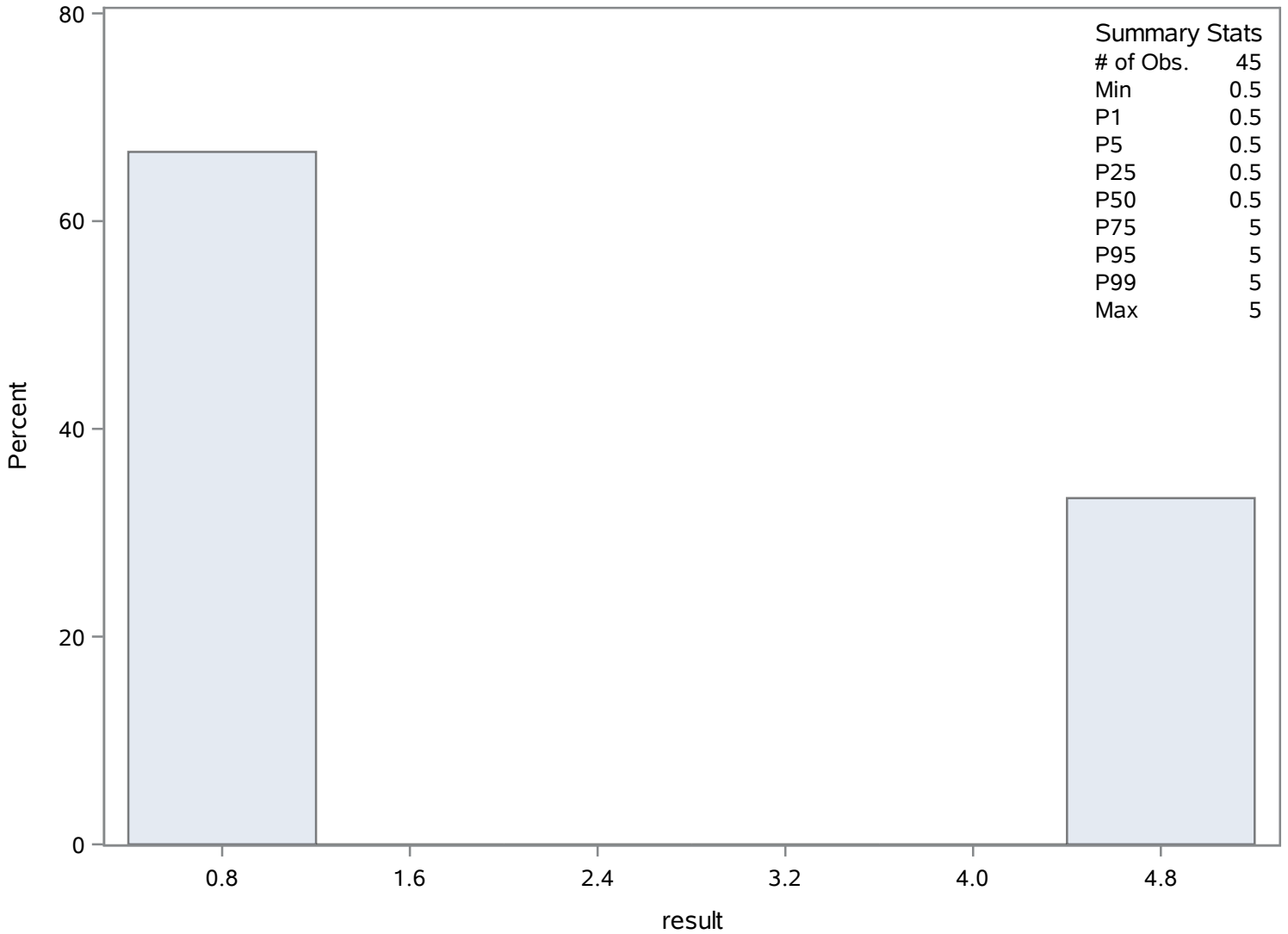
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	696	5	662
0.5	695	5	663
0.5	694	5	664
0.5	693	5	665
0.5	692	5	666

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	4.74176471	Sum Observations	322.44
Std Deviation	0.51657003	Variance	0.2668446
Skewness	1.40266661	Kurtosis	3.22274153
Uncorrected SS	1546.8132	Corrected SS	17.8785882
Coeff Variation	10.8940461	Std Error Mean	0.06264332

Basic Statistical Measures			
Location		Variability	
Mean	4.741765	Std Deviation	0.51657
Median	4.670000	Variance	0.26684
Mode	4.650000	Range	2.82000
		Interquartile Range	0.44000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	75.69466	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.72
99%	6.72
95%	5.76
90%	5.39
75% Q3	4.92
50% Median	4.67
25% Q1	4.48
10%	4.16
5%	4.06
1%	3.90
0% Min	3.90

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

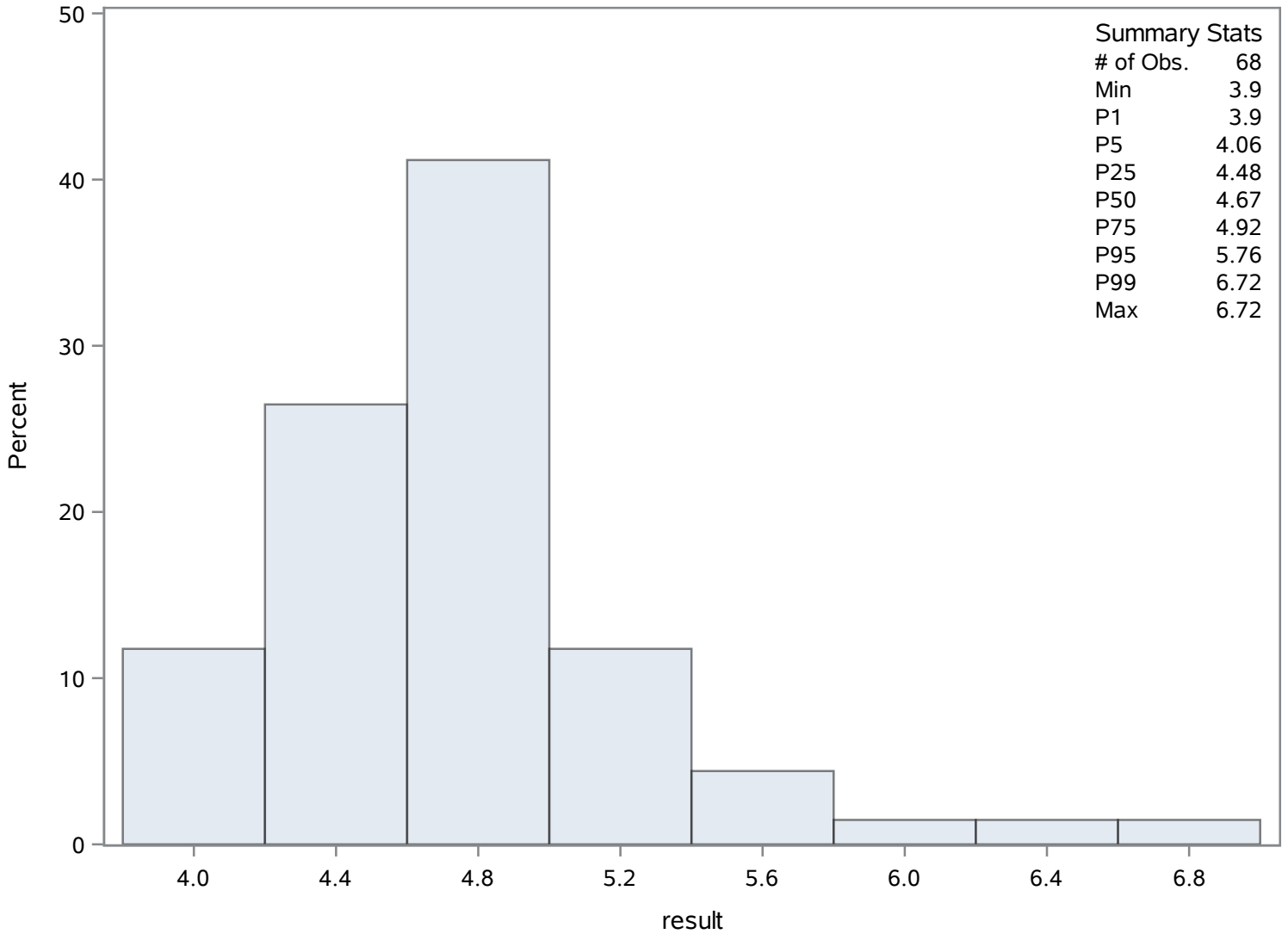
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.90	704	5.75	720
3.90	703	5.76	715
4.01	701	6.02	744
4.06	699	6.21	756
4.10	700	6.72	750

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	101	Sum Weights	101
Mean	0.13974257	Sum Observations	14.114
Std Deviation	0.04921517	Variance	0.00242213
Skewness	8.33727498	Kurtosis	78.1996793
Uncorrected SS	2.21454	Corrected SS	0.24221331
Coeff Variation	35.2184518	Std Error Mean	0.00489709

Basic Statistical Measures			
Location		Variability	
Mean	0.139743	Std Deviation	0.04922
Median	0.130000	Variance	0.00242
Mode	0.130000	Range	0.52000
		Interquartile Range	0.01400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	28.53582	Pr > t 	<.0001
Sign	M	50.5	Pr >= M 	<.0001
Signed Rank	S	2575.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.600
99%	0.194
95%	0.170
90%	0.160
75% Q3	0.140
50% Median	0.130
25% Q1	0.126
10%	0.120
5%	0.112
1%	0.108
0% Min	0.080

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

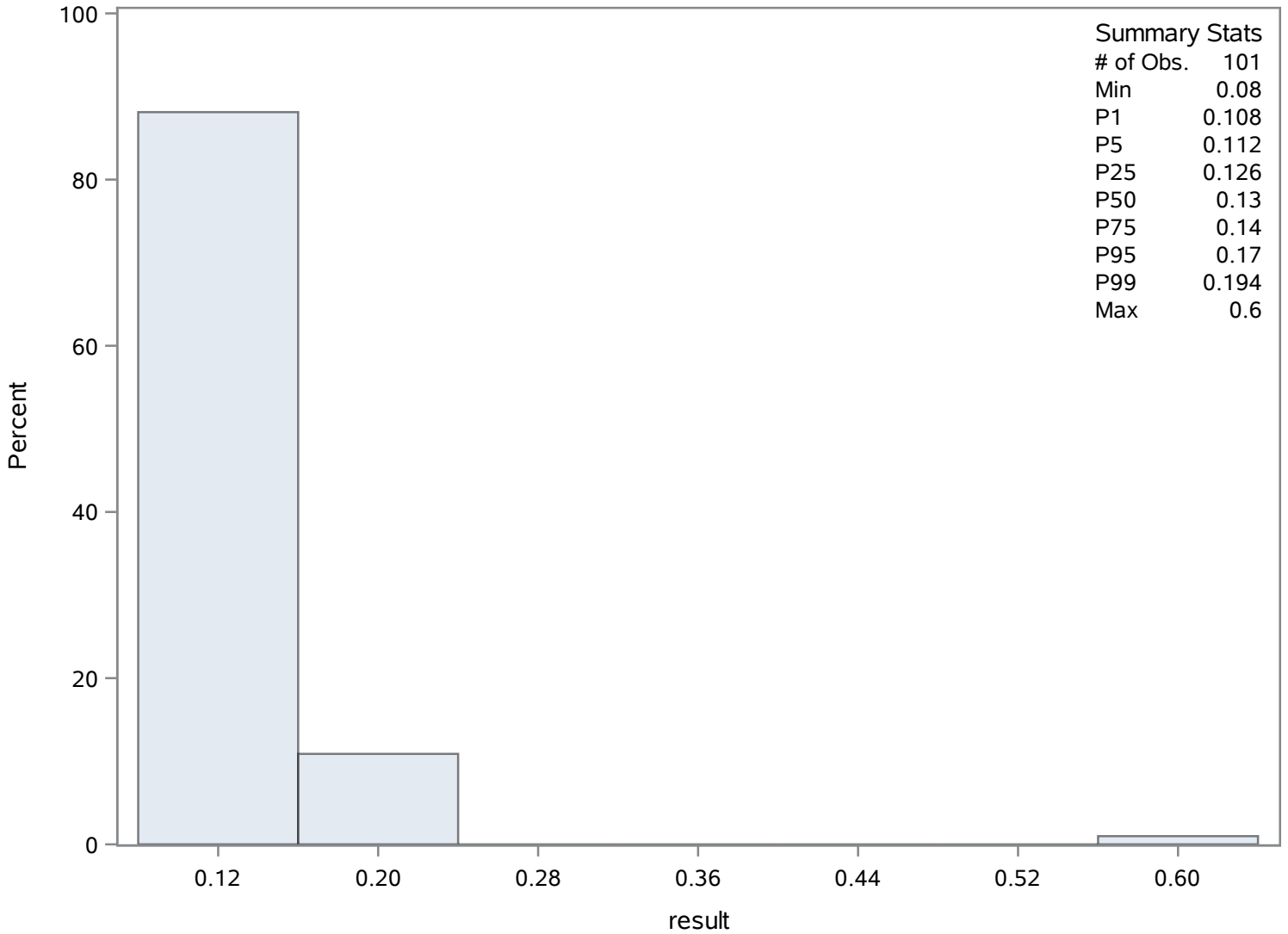
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.080	819	0.170	793
0.108	780	0.170	826
0.110	802	0.190	792
0.110	784	0.194	777
0.110	765	0.600	782

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	33	Sum Weights	33
Mean	0.16536364	Sum Observations	5.457
Std Deviation	0.10334887	Variance	0.01068099
Skewness	3.65691294	Kurtosis	13.1863133
Uncorrected SS	1.244181	Corrected SS	0.34179164
Coeff Variation	62.4979414	Std Error Mean	0.01799073

Basic Statistical Measures			
Location		Variability	
Mean	0.165364	Std Deviation	0.10335
Median	0.140000	Variance	0.01068
Mode	0.140000	Range	0.52000
		Interquartile Range	0.02400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.191603	Pr > t 	<.0001
Sign	M	16.5	Pr >= M 	<.0001
Signed Rank	S	280.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.600
99%	0.600
95%	0.510
90%	0.170
75% Q3	0.154
50% Median	0.140
25% Q1	0.130
10%	0.114
5%	0.108
1%	0.080
0% Min	0.080

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure
Variable: result

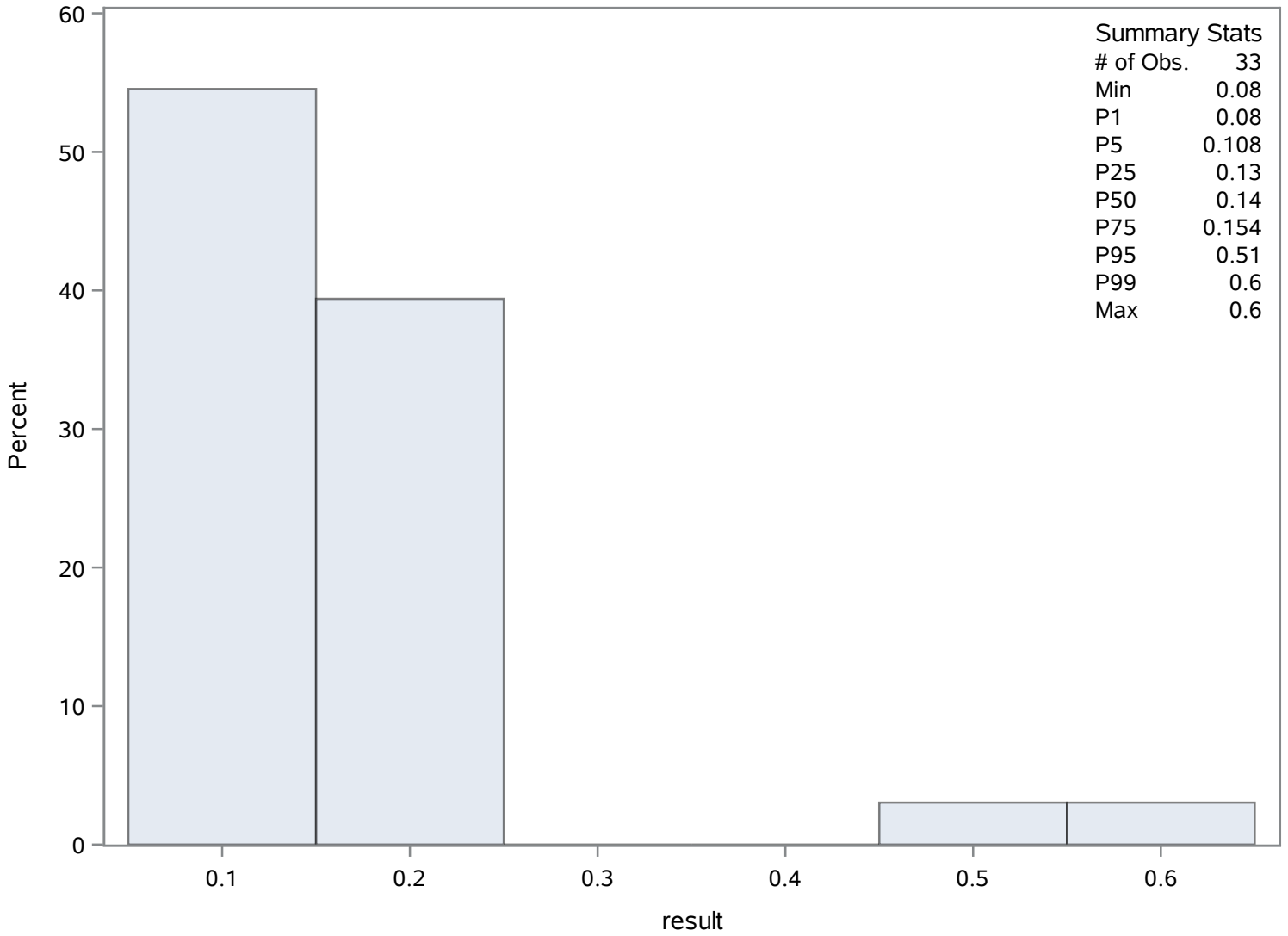
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.080	878	0.17	881
0.108	873	0.17	883
0.110	879	0.19	882
0.114	866	0.51	876
0.120	886	0.60	875

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	107	Sum Weights	107
Mean	17.8231776	Sum Observations	1907.08
Std Deviation	12.635028	Variance	159.643933
Skewness	0.50246626	Kurtosis	-0.1696423
Uncorrected SS	50912.4824	Corrected SS	16922.2569
Coeff Variation	70.8909956	Std Error Mean	1.22147426

Basic Statistical Measures			
Location		Variability	
Mean	17.82318	Std Deviation	12.63503
Median	12.50000	Variance	159.64393
Mode	30.00000	Range	60.50000
		Interquartile Range	24.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.59153	Pr > t 	<.0001
Sign	M	53.5	Pr >= M 	<.0001
Signed Rank	S	2889	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	63.0
99%	48.0
95%	34.3
90%	30.0
75% Q3	30.0
50% Median	12.5
25% Q1	5.6
10%	2.5
5%	2.5
1%	2.5
0% Min	2.5

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

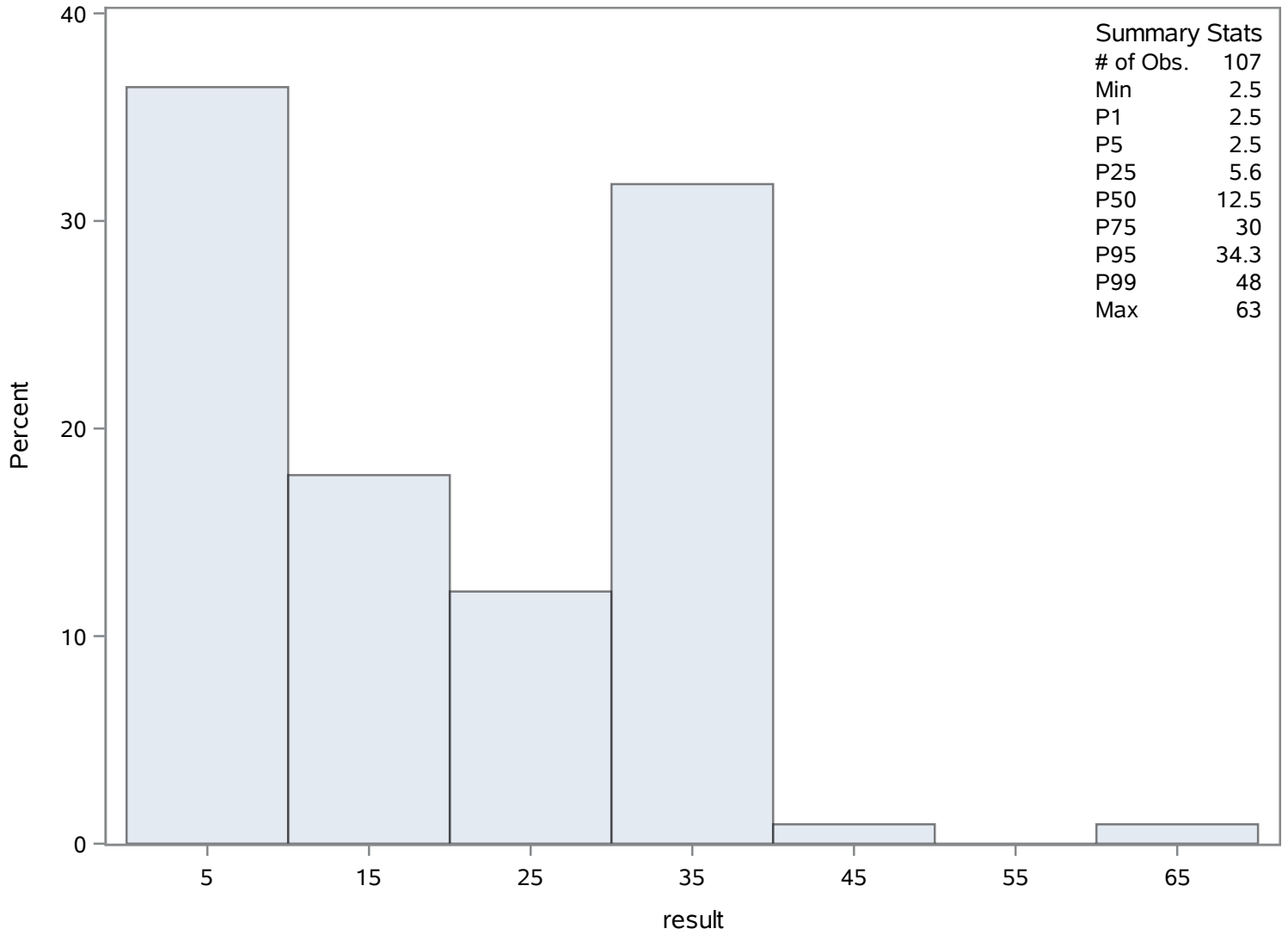
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.5	987	34.3	920
2.5	986	36.0	903
2.5	985	36.0	904
2.5	984	48.0	909
2.5	983	63.0	914

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	104	Sum Weights	104
Mean	23.9074038	Sum Observations	2486.37
Std Deviation	10.4989629	Variance	110.228221
Skewness	1.47526792	Kurtosis	2.53536934
Uncorrected SS	70796.1585	Corrected SS	11353.5068
Coeff Variation	43.9151107	Std Error Mean	1.02950801

Basic Statistical Measures			
Location		Variability	
Mean	23.90740	Std Deviation	10.49896
Median	21.00000	Variance	110.22822
Mode	15.40000	Range	51.00000
		Interquartile Range	12.10000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	23.22216	Pr > t 	<.0001
Sign	M	52	Pr >= M 	<.0001
Signed Rank	S	2730	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	62.3
99%	61.9
95%	44.7
90%	36.4
75% Q3	28.1
50% Median	21.0
25% Q1	16.0
10%	13.3
5%	12.6

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

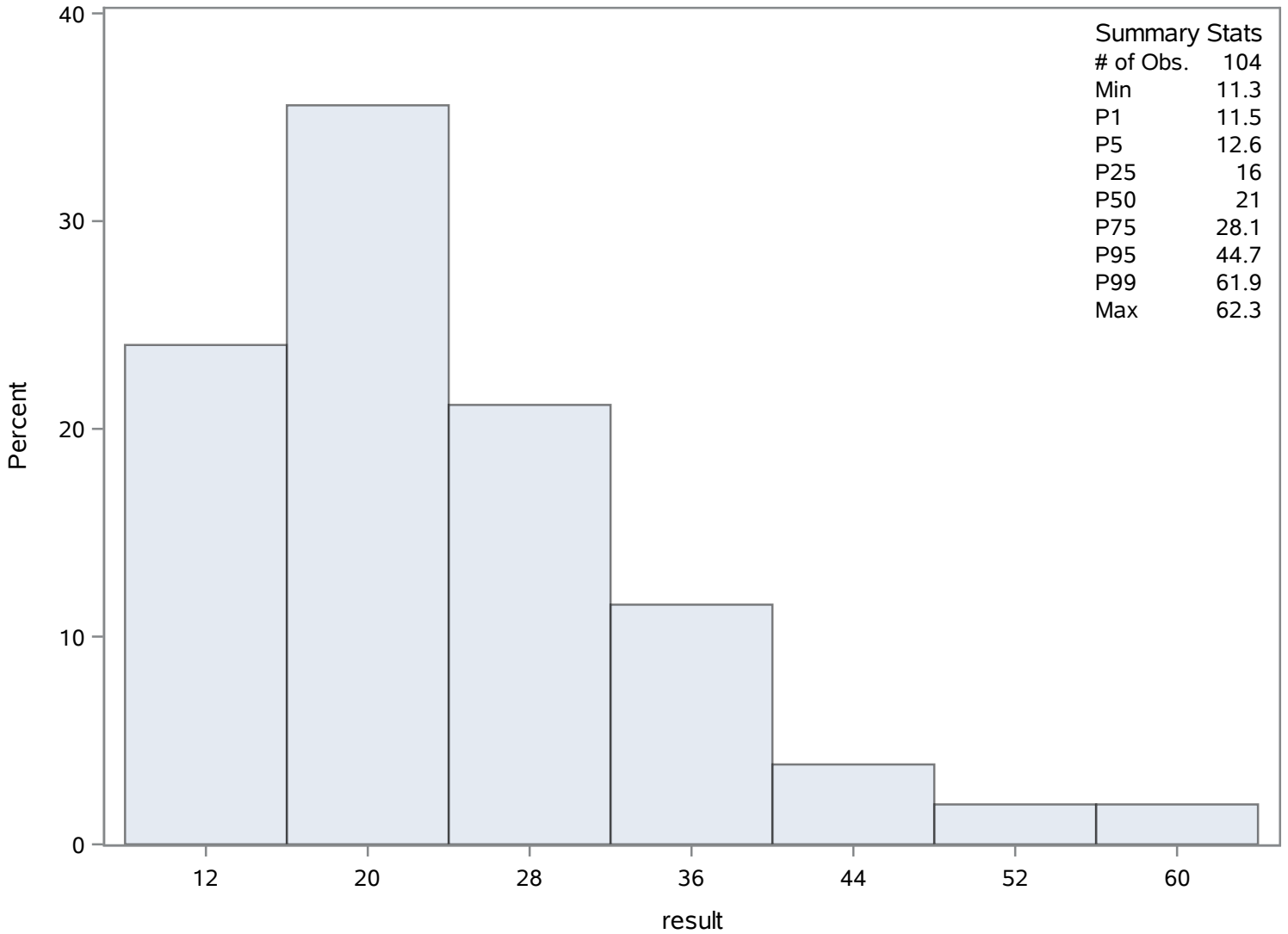
Quantiles (Definition 5)	
Level	Quantile
1%	11.5
0% Min	11.3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.3	1024	46.5	1076
11.5	1062	48.5	1088
11.7	1061	53.5	1031
12.0	1013	61.9	1069
12.2	1023	62.3	1084

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Magnesium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	20.4777778	Sum Observations	552.9
Std Deviation	9.49572103	Variance	90.1687179
Skewness	1.93903448	Kurtosis	4.53894637
Uncorrected SS	13666.55	Corrected SS	2344.38667
Coeff Variation	46.3708569	Std Error Mean	1.82745236

Basic Statistical Measures			
Location		Variability	
Mean	20.47778	Std Deviation	9.49572
Median	18.10000	Variance	90.16872
Mode	15.60000	Range	41.60000
		Interquartile Range	10.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.20564	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	53.5
99%	53.5
95%	36.4
90%	32.2
75% Q3	24.0
50% Median	18.1
25% Q1	13.6
10%	12.3
5%	12.2
1%	11.9
0% Min	11.9

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

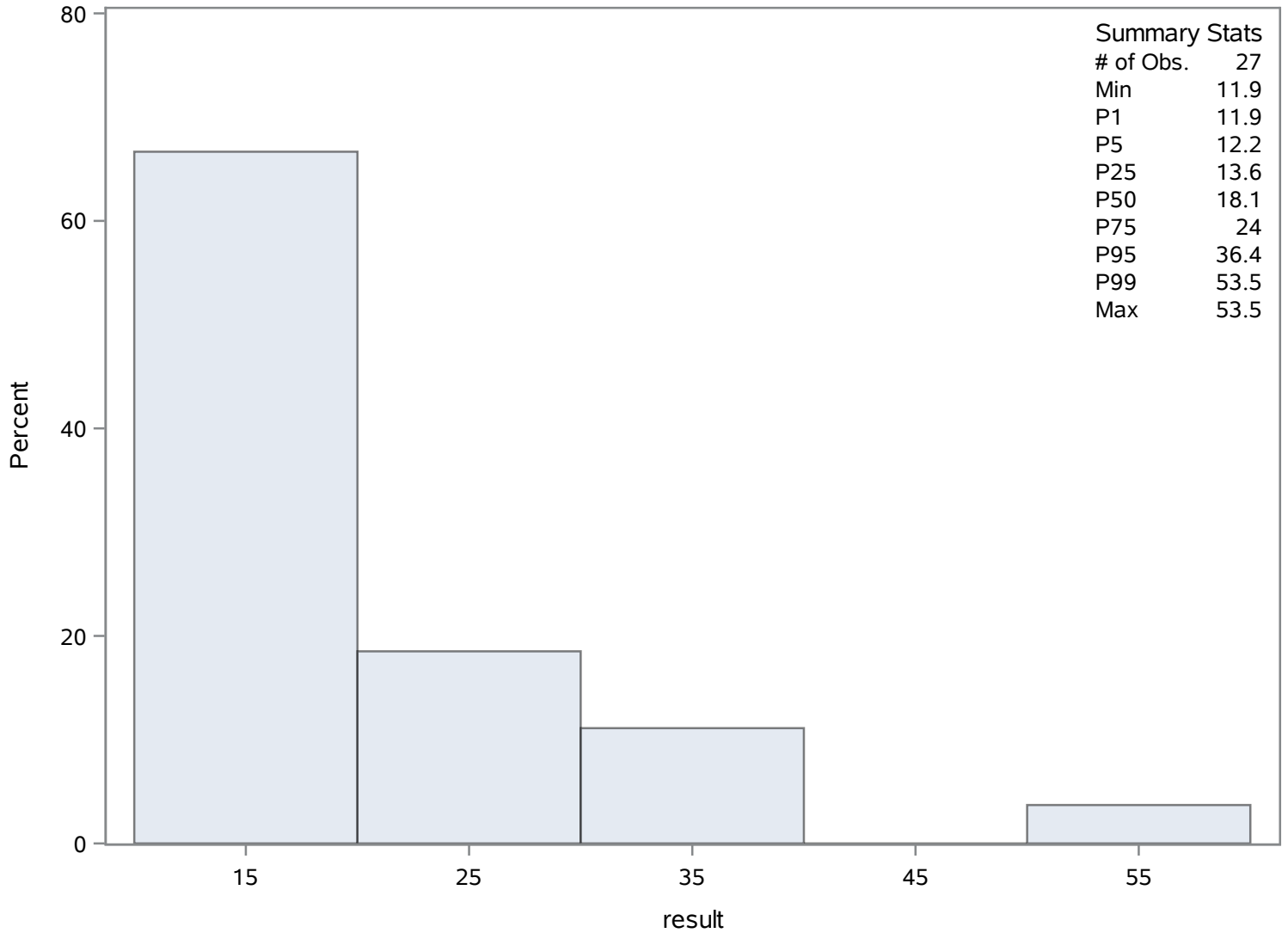
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.9	1135	29.0	1110
12.2	1118	32.1	1116
12.3	1119	32.2	1115
12.7	1117	36.4	1114
13.4	1136	53.5	1122

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Manganese (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	0.3336	Sum Observations	8.34
Std Deviation	0.21228676	Variance	0.04506567
Skewness	1.54120007	Kurtosis	1.61779575
Uncorrected SS	3.8638	Corrected SS	1.081576
Coeff Variation	63.6351186	Std Error Mean	0.04245735

Basic Statistical Measures			
Location		Variability	
Mean	0.333600	Std Deviation	0.21229
Median	0.250000	Variance	0.04507
Mode	0.230000	Range	0.80000
		Interquartile Range	0.25000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.857297	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.93
99%	0.93
95%	0.75
90%	0.72
75% Q3	0.45
50% Median	0.25
25% Q1	0.20
10%	0.17
5%	0.15

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Manganese (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.13
0% Min	0.13

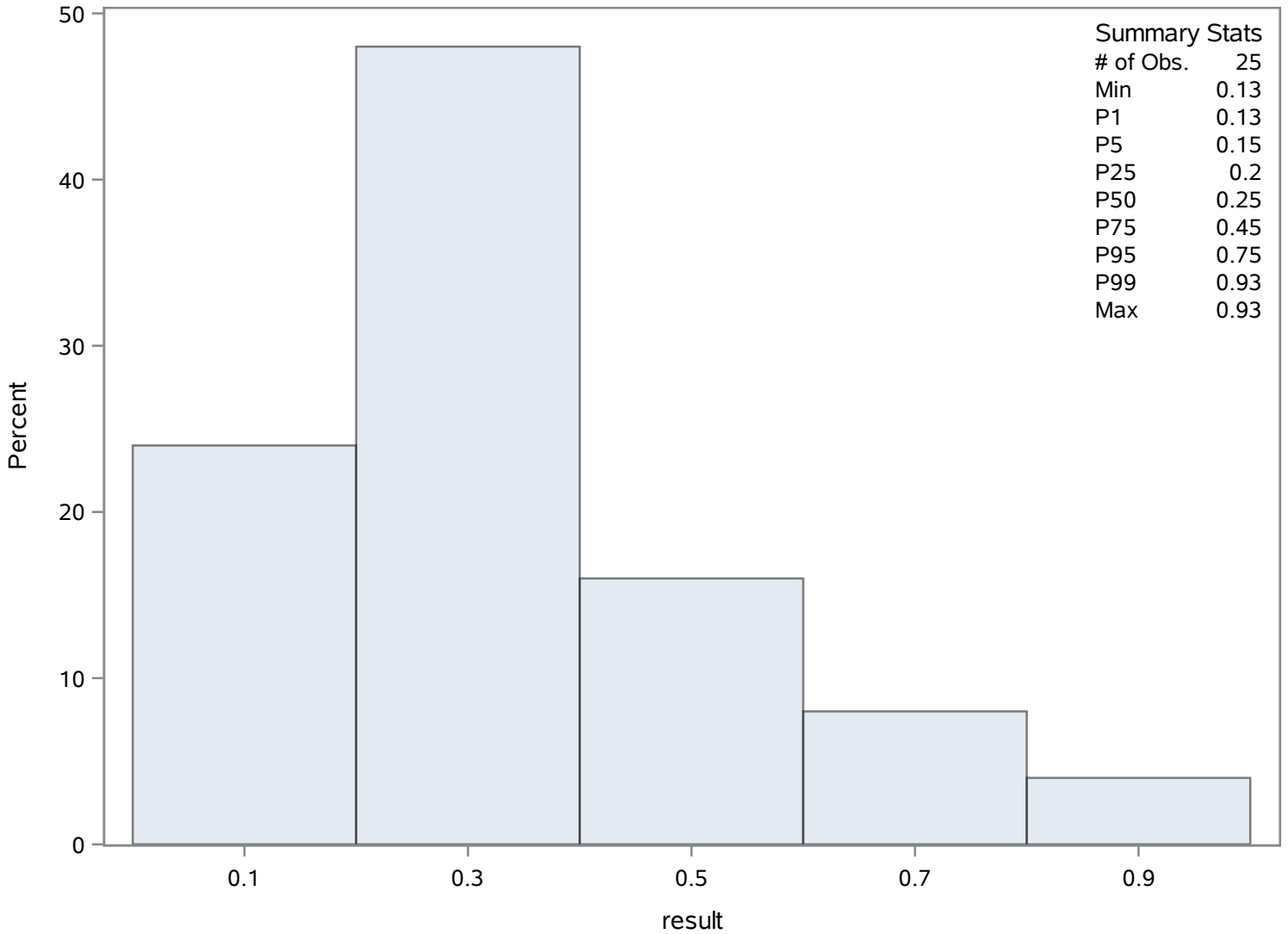
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	1158	0.50	1141
0.15	1147	0.59	1142
0.17	1146	0.72	1160
0.17	1143	0.75	1140
0.18	1149	0.93	1161

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Manganese (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	41	Sum Weights	41
Mean	0.48377805	Sum Observations	19.8349
Std Deviation	0.04505823	Variance	0.00203024
Skewness	0.51426466	Kurtosis	2.09279084
Uncorrected SS	9.67689899	Corrected SS	0.08120977
Coeff Variation	9.31382314	Std Error Mean	0.00703691

Basic Statistical Measures			
Location		Variability	
Mean	0.483778	Std Deviation	0.04506
Median	0.487900	Variance	0.00203
Mode	0.465000	Range	0.24550
		Interquartile Range	0.04400

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	68.74861	Pr > t 	<.0001
Sign	M	20.5	Pr >= M 	<.0001
Signed Rank	S	430.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.6315
99%	0.6315
95%	0.5470
90%	0.5262
75% Q3	0.5080
50% Median	0.4879
25% Q1	0.4640
10%	0.4260
5%	0.4200

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.3860
0% Min	0.3860

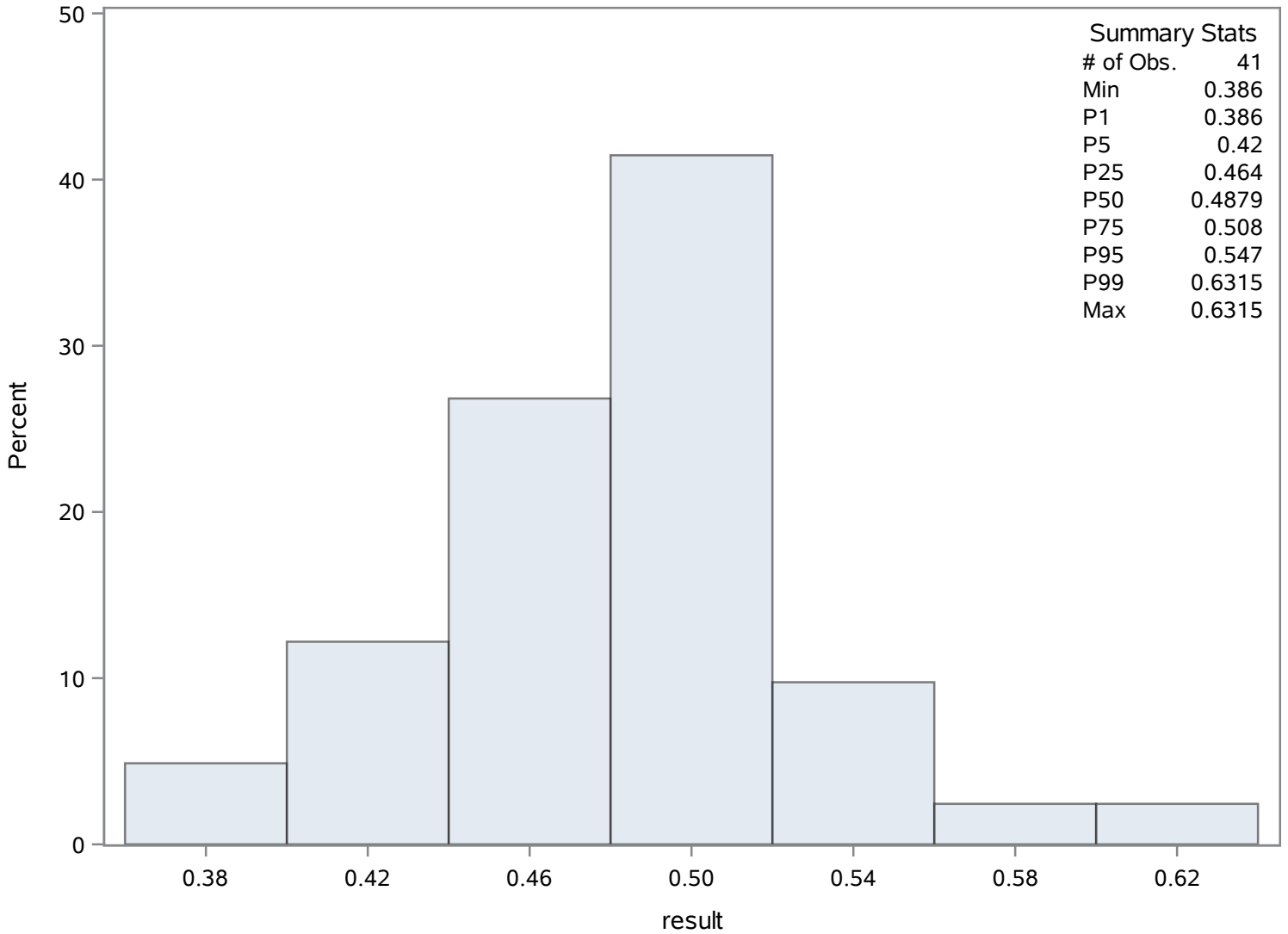
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.386	1168	0.5262	1201
0.397	1186	0.5295	1200
0.420	1163	0.5470	1198
0.424	1162	0.5660	1199
0.426	1179	0.6315	1202

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Nitrate (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	73	Sum Weights	73
Mean	0.52203014	Sum Observations	38.1082
Std Deviation	0.06100935	Variance	0.00372214
Skewness	0.21226686	Kurtosis	-0.4260614
Uncorrected SS	20.161623	Corrected SS	0.26799411
Coeff Variation	11.6869397	Std Error Mean	0.0071406

Basic Statistical Measures			
Location		Variability	
Mean	0.522030	Std Deviation	0.06101
Median	0.510000	Variance	0.00372
Mode	0.458000	Range	0.27100
		Interquartile Range	0.08900

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	73.10728	Pr > t 	<.0001
Sign	M	36.5	Pr >= M 	<.0001
Signed Rank	S	1350.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.6600
99%	0.6600
95%	0.6318
90%	0.6000
75% Q3	0.5690
50% Median	0.5100
25% Q1	0.4800
10%	0.4580
5%	0.4260

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

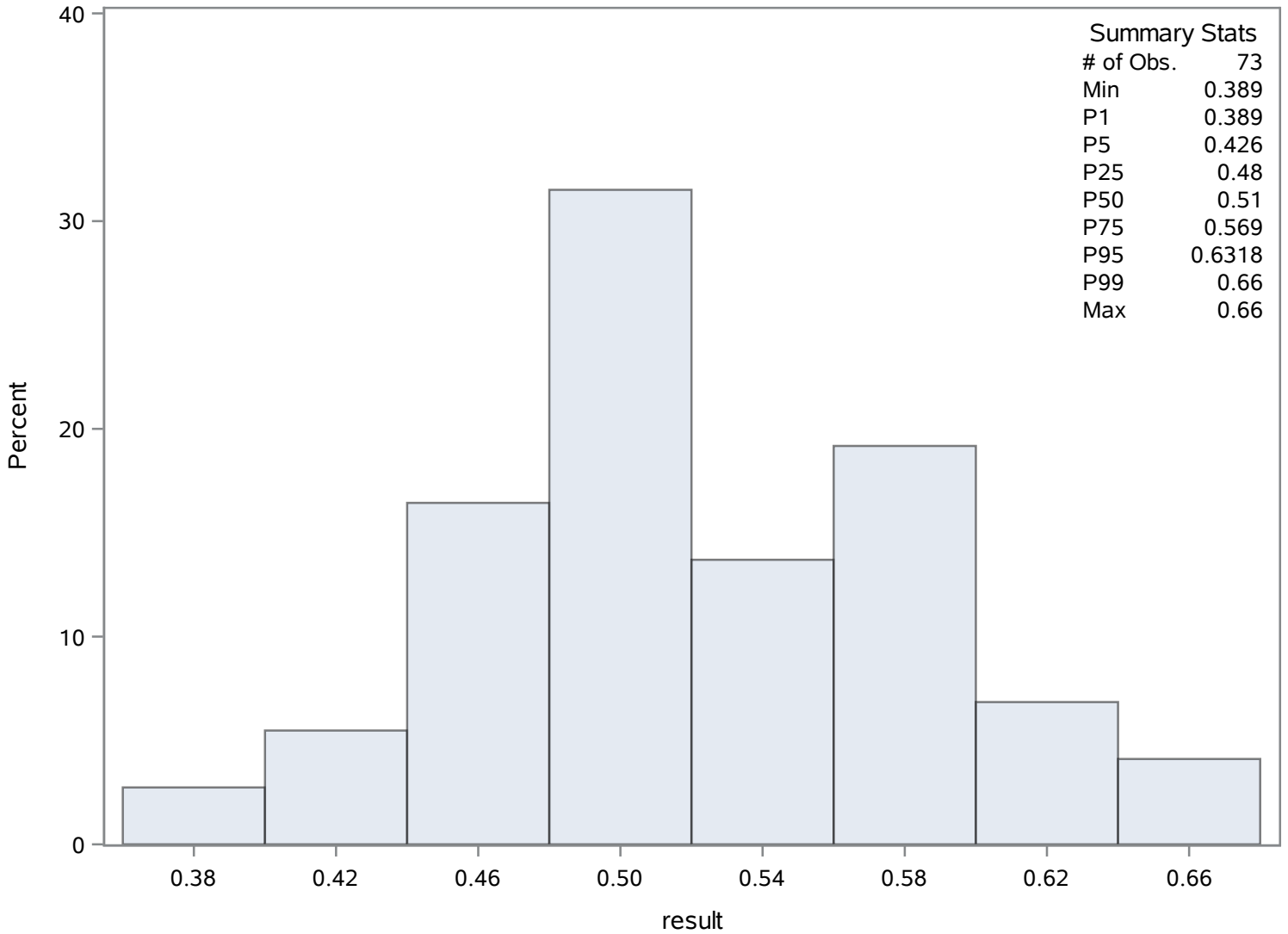
Quantiles (Definition 5)	
Level	Quantile
1%	0.3890
0% Min	0.3890

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.389	1210	0.6290	1274
0.397	1229	0.6318	1256
0.420	1203	0.6400	1257
0.426	1222	0.6510	1275
0.433	1232	0.6600	1260

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	0.60432609	Sum Observations	27.799
Std Deviation	0.05369587	Variance	0.00288325
Skewness	-1.3752256	Kurtosis	1.45614989
Uncorrected SS	16.929407	Corrected SS	0.12974611
Coeff Variation	8.88524837	Std Error Mean	0.00791702

Basic Statistical Measures			
Location		Variability	
Mean	0.604326	Std Deviation	0.05370
Median	0.626000	Variance	0.00288
Mode	0.629000	Range	0.24500
		Interquartile Range	0.05800

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	76.33247	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.678
99%	0.678
95%	0.652
90%	0.647
75% Q3	0.638
50% Median	0.626
25% Q1	0.580
10%	0.512
5%	0.490

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.433
0% Min	0.433

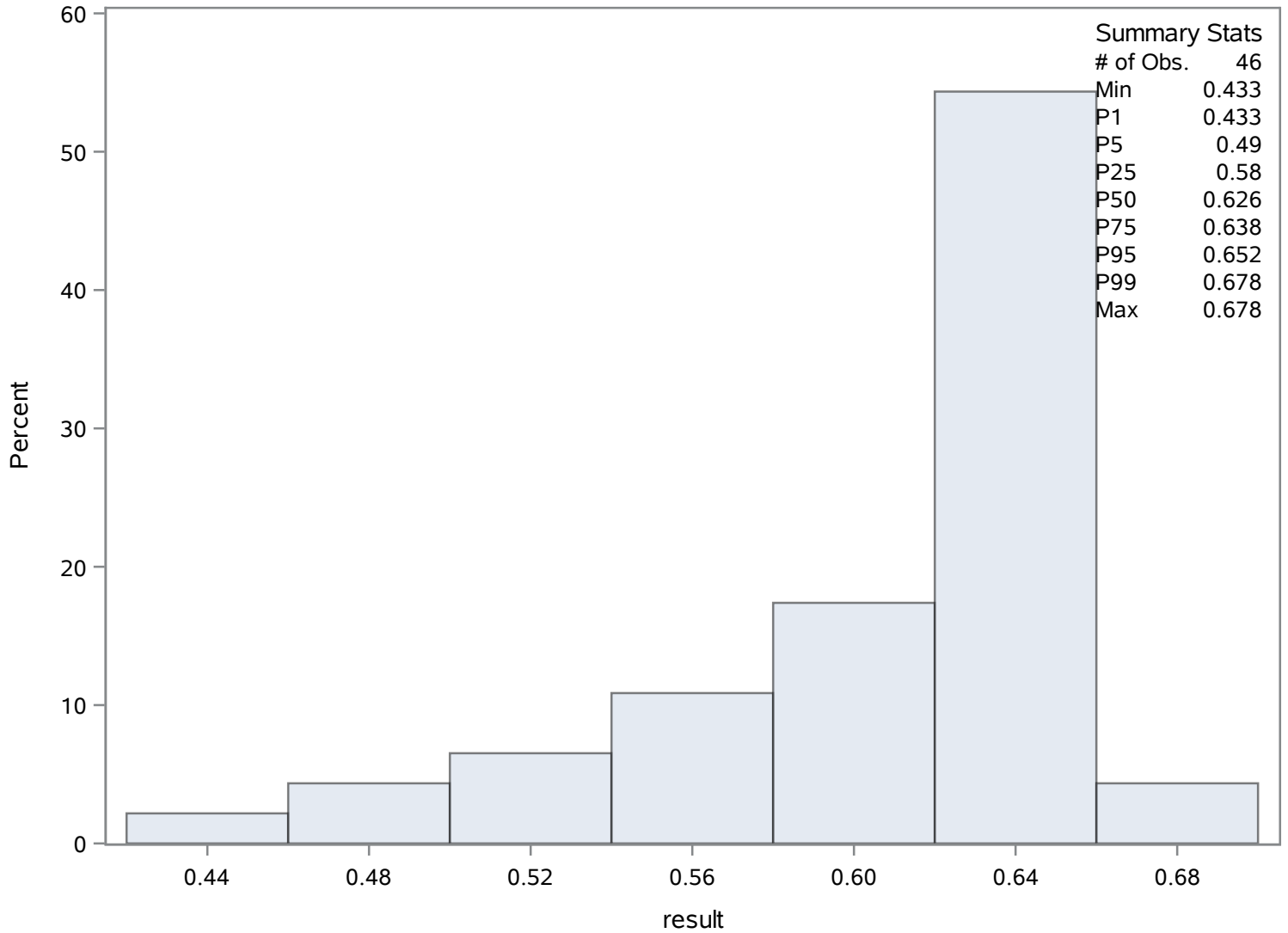
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.433	1278	0.647	1303
0.488	1277	0.650	1295
0.490	1280	0.652	1305
0.510	1282	0.674	1319
0.512	1276	0.678	1320

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	37	Sum Weights	37
Mean	0.00547297	Sum Observations	0.2025
Std Deviation	0.00223279	Variance	4.98536E-6
Skewness	1.11208532	Kurtosis	0.53837547
Uncorrected SS	0.00128775	Corrected SS	0.00017947
Coeff Variation	40.7966943	Std Error Mean	0.00036707

Basic Statistical Measures			
Location		Variability	
Mean	0.005473	Std Deviation	0.00223
Median	0.005000	Variance	4.98536E-6
Mode	0.005000	Range	0.00750
		Interquartile Range	0.00100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.90994	Pr > t 	<.0001
Sign	M	18.5	Pr >= M 	<.0001
Signed Rank	S	351.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0100
75% Q3	0.0060
50% Median	0.0050
25% Q1	0.0050
10%	0.0030
5%	0.0025
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

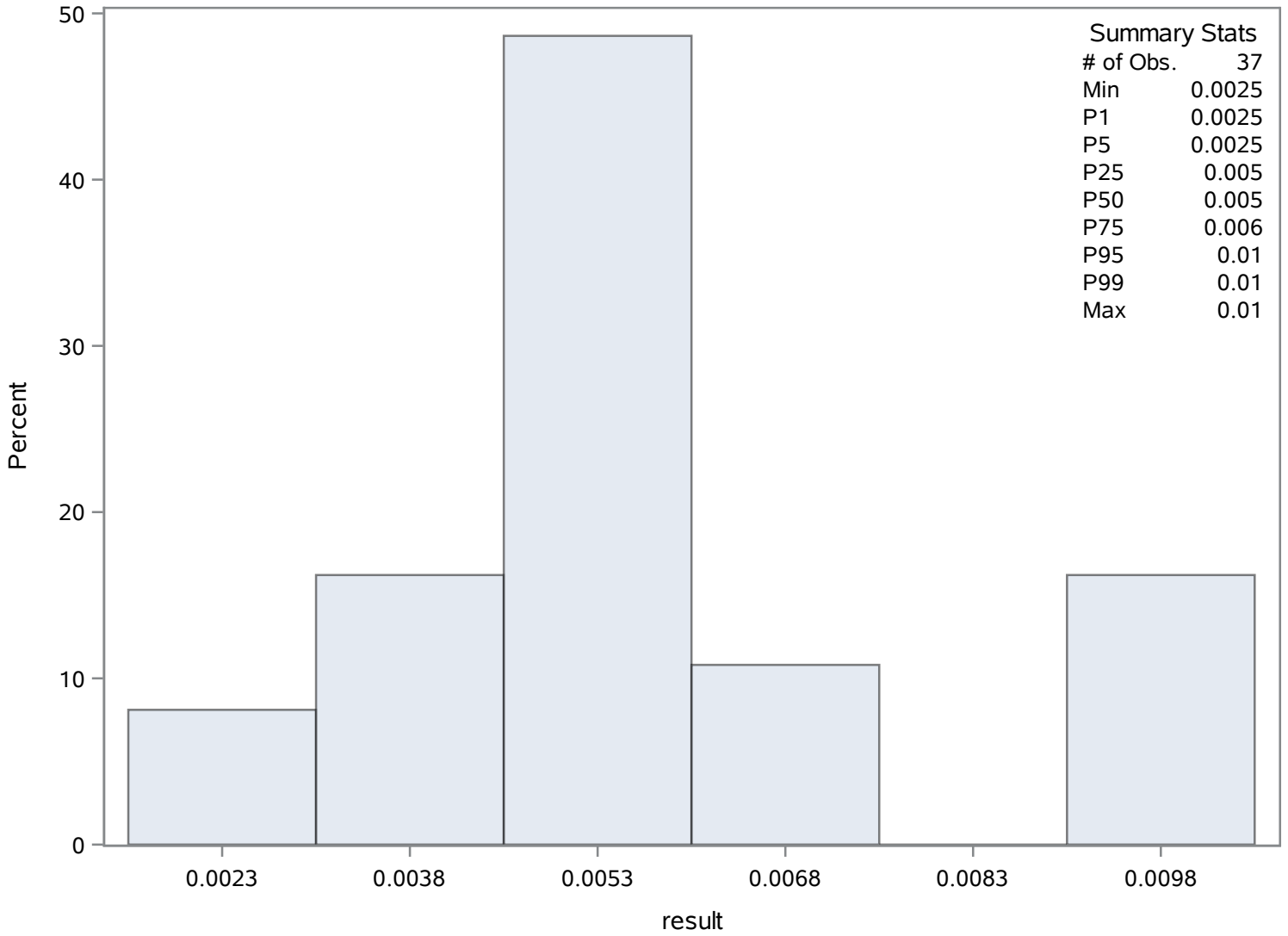
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	1341	0.01	1326
0.0025	1340	0.01	1327
0.0025	1339	0.01	1329
0.0030	1349	0.01	1330
0.0030	1337	0.01	1331

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	40	Sum Weights	40
Mean	0.0046375	Sum Observations	0.1855
Std Deviation	0.00218088	Variance	4.75625E-6
Skewness	1.81428837	Kurtosis	2.41918525
Uncorrected SS	0.00104575	Corrected SS	0.00018549
Coeff Variation	47.0271234	Std Error Mean	0.00034483

Basic Statistical Measures			
Location		Variability	
Mean	0.004638	Std Deviation	0.00218
Median	0.004000	Variance	4.75625E-6
Mode	0.004000	Range	0.00750
		Interquartile Range	0.00100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.44874	Pr > t 	<.0001
Sign	M	20	Pr >= M 	<.0001
Signed Rank	S	410	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0100
75% Q3	0.0050
50% Median	0.0040
25% Q1	0.0040
10%	0.0025
5%	0.0025
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

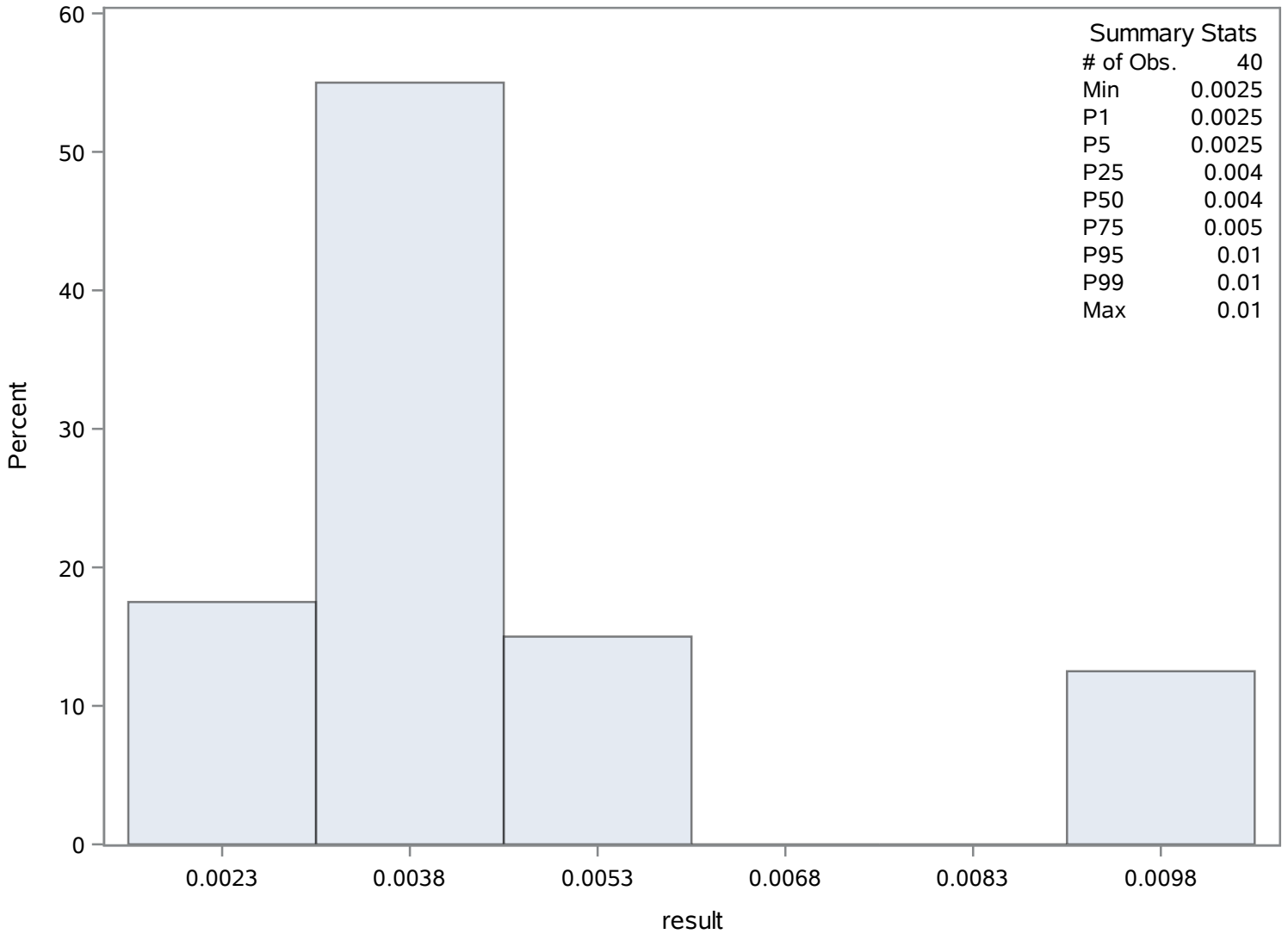
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	1376	0.01	1359
0.0025	1375	0.01	1360
0.0025	1374	0.01	1361
0.0025	1373	0.01	1362
0.0025	1372	0.01	1363

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	64	Sum Weights	64
Mean	0.60519375	Sum Observations	38.7324
Std Deviation	0.07915589	Variance	0.00626566
Skewness	-0.3142216	Kurtosis	2.56122176
Uncorrected SS	23.8353427	Corrected SS	0.39473628
Coeff Variation	13.0794298	Std Error Mean	0.00989449

Basic Statistical Measures			
Location		Variability	
Mean	0.605194	Std Deviation	0.07916
Median	0.605850	Variance	0.00627
Mode	0.630000	Range	0.53000
		Interquartile Range	0.08175

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	61.16475	Pr > t 	<.0001
Sign	M	32	Pr >= M 	<.0001
Signed Rank	S	1040	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.86000
99%	0.86000
95%	0.69700
90%	0.69000
75% Q3	0.65000
50% Median	0.60585
25% Q1	0.56825
10%	0.50000
5%	0.49000
1%	0.33000
0% Min	0.33000

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total (Total) mg/L

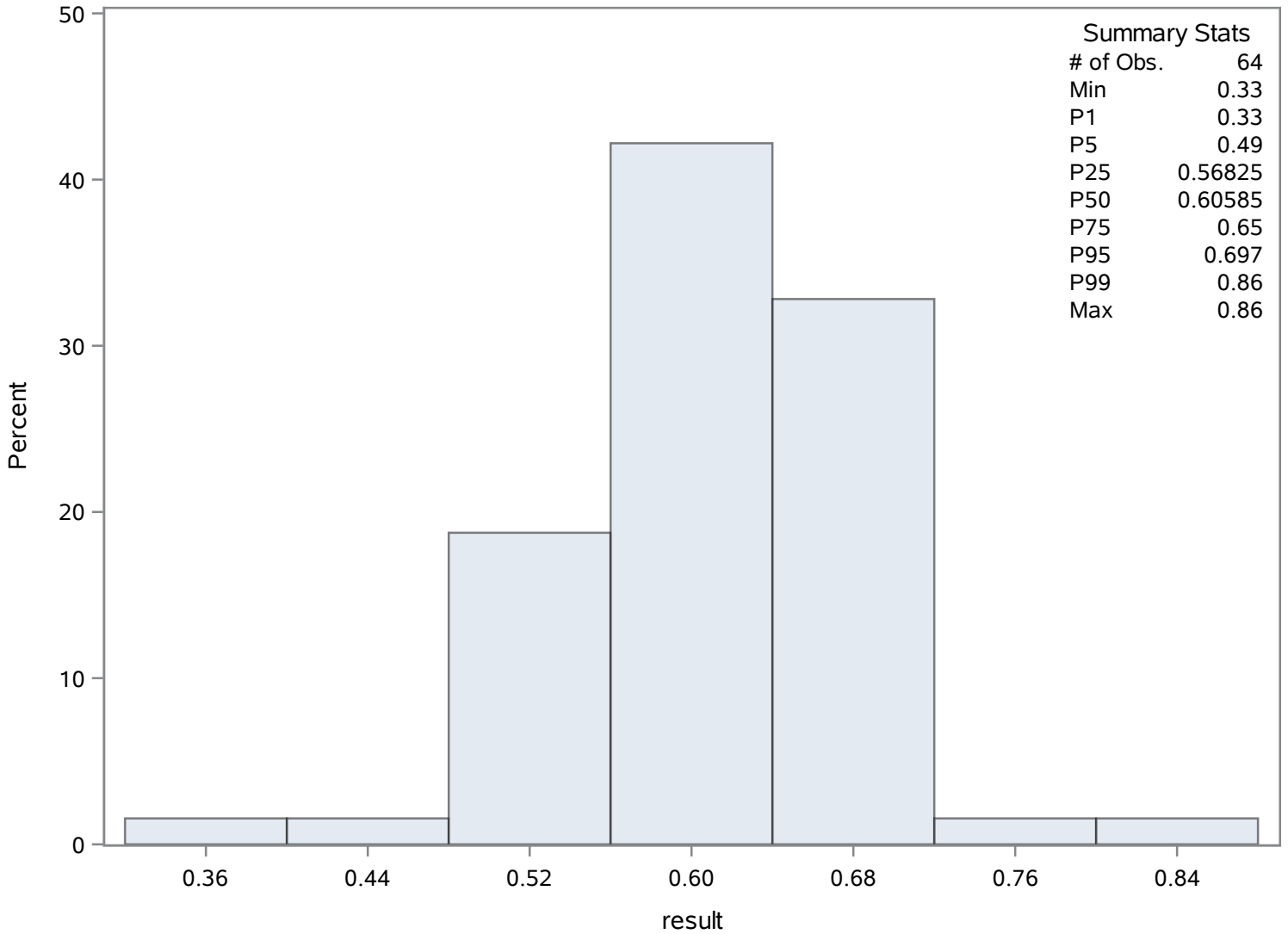
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.33	1411	0.690	1460
0.44	1426	0.697	1427
0.48	1418	0.700	1440
0.49	1423	0.761	1429
0.50	1424	0.860	1414

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	0.1277619	Sum Observations	2.683
Std Deviation	0.13686778	Variance	0.01873279
Skewness	3.5365551	Kurtosis	14.4787358
Uncorrected SS	0.717441	Corrected SS	0.37465581
Coeff Variation	107.127226	Std Error Mean	0.029867

Basic Statistical Measures			
Location		Variability	
Mean	0.127762	Std Deviation	0.13687
Median	0.084000	Variance	0.01873
Mode	0.060000	Range	0.67000
		Interquartile Range	0.11000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.277695	Pr > t 	0.0004
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.680
99%	0.680
95%	0.180
90%	0.171
75% Q3	0.170
50% Median	0.084
25% Q1	0.060
10%	0.060
5%	0.030
1%	0.010
0% Min	0.010

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total Kjeldahl (Total) mg/L

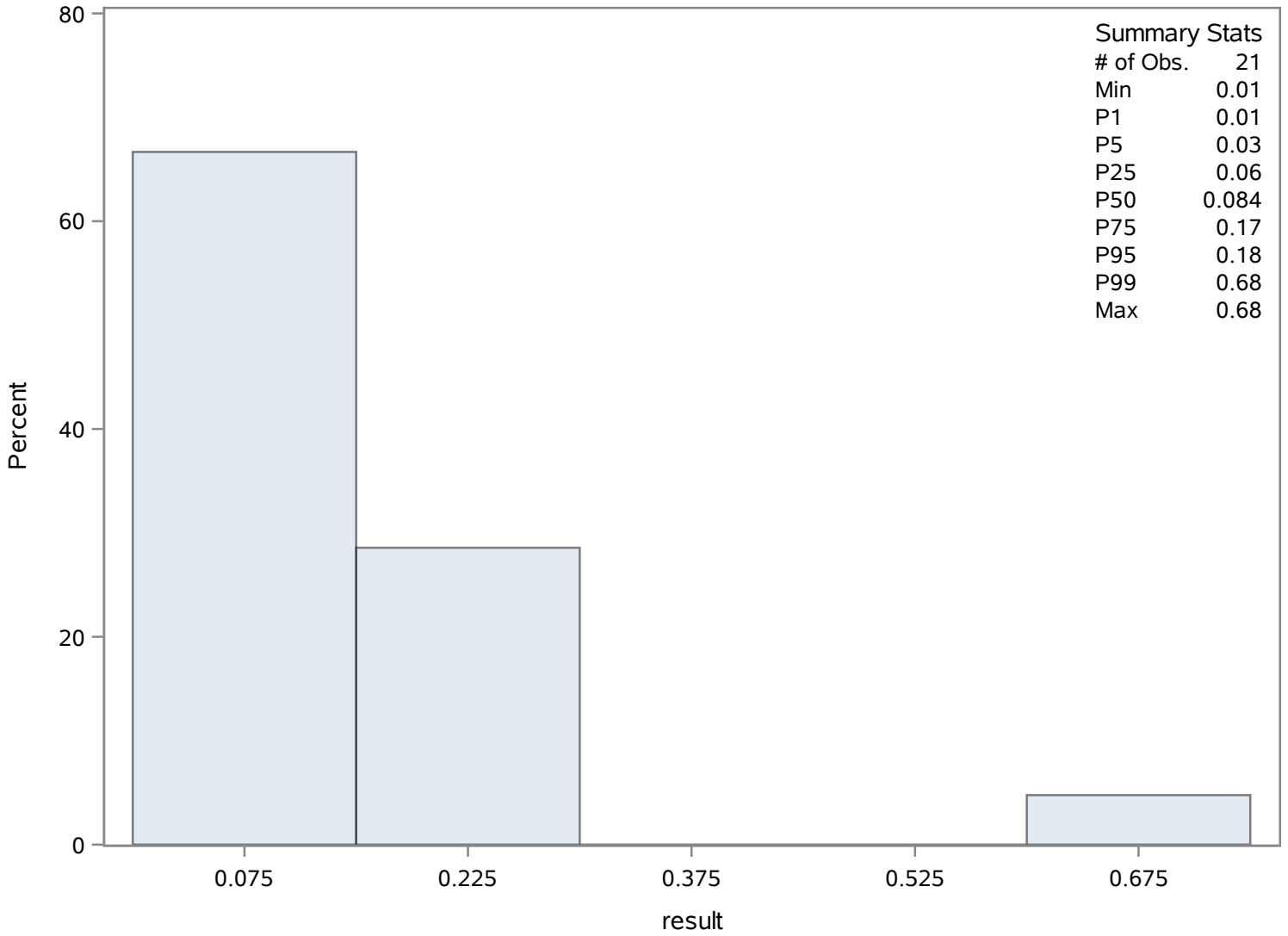
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	1465	0.170	1470
0.03	1466	0.170	1477
0.06	1481	0.171	1463
0.06	1480	0.180	1469
0.06	1479	0.680	1468

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	116	Sum Weights	116
Mean	0.01670776	Sum Observations	1.9381
Std Deviation	0.00435405	Variance	0.00001896
Skewness	0.75902497	Kurtosis	3.08484837
Uncorrected SS	0.03456145	Corrected SS	0.00218014
Coeff Variation	26.0600581	Std Error Mean	0.00040426

Basic Statistical Measures			
Location		Variability	
Mean	0.016708	Std Deviation	0.00435
Median	0.017000	Variance	0.0000190
Mode	0.017000	Range	0.03000
		Interquartile Range	0.00400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	41.32888	Pr > t 	<.0001
Sign	M	58	Pr >= M 	<.0001
Signed Rank	S	3393	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.036
99%	0.029
95%	0.024
90%	0.021
75% Q3	0.019
50% Median	0.017
25% Q1	0.015
10%	0.010
5%	0.010
1%	0.009
0% Min	0.006

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Orthophosphate (P) (Dissolved) mg/L

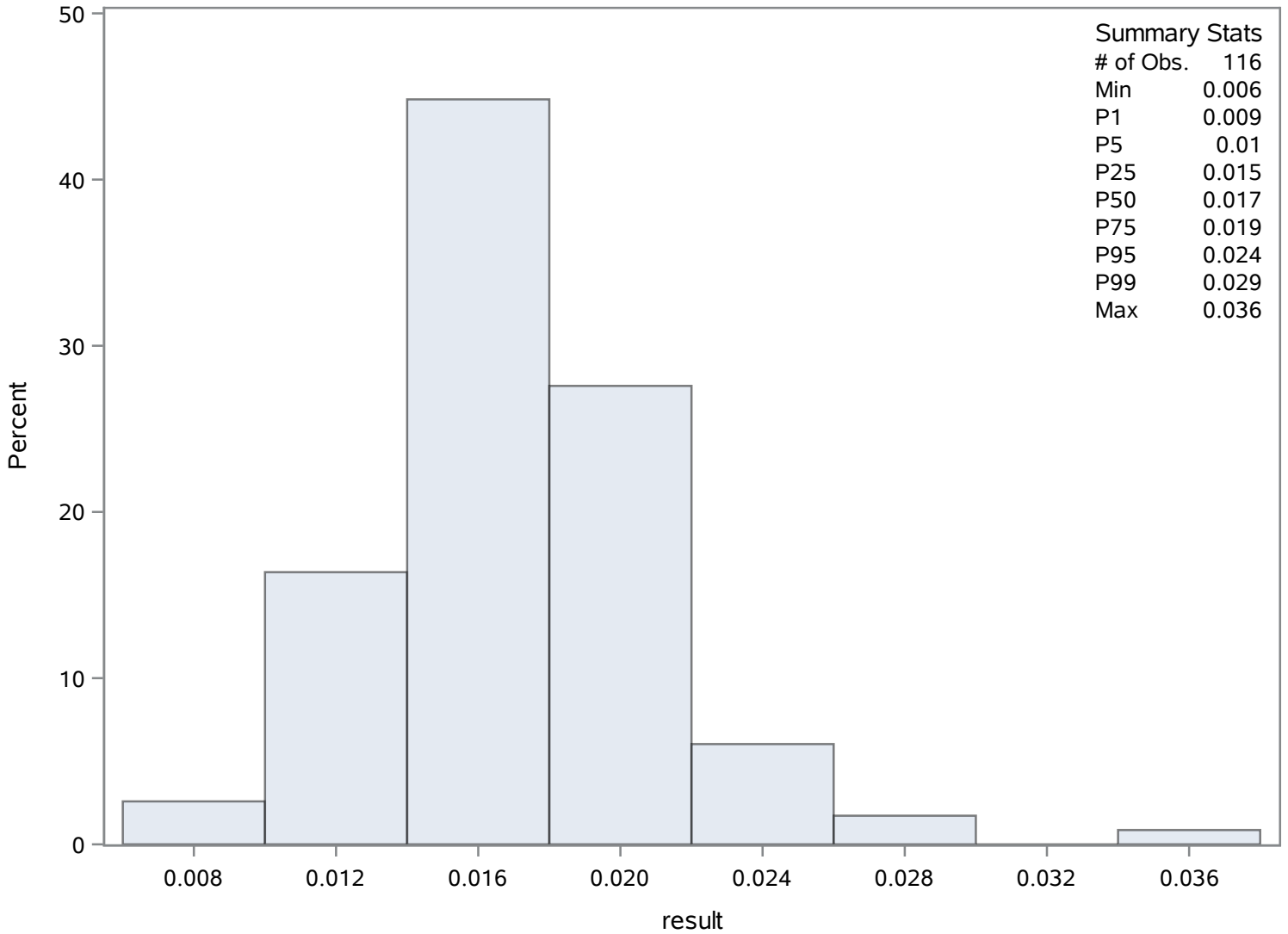
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	1492	0.024	1523
0.009	1545	0.024	1530
0.009	1484	0.028	1522
0.010	1560	0.029	1495
0.010	1528	0.036	1490

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	115	Sum Weights	115
Mean	0.02744696	Sum Observations	3.1564
Std Deviation	0.04447281	Variance	0.00197783
Skewness	5.52815562	Kurtosis	30.6751959
Uncorrected SS	0.3121063	Corrected SS	0.22547273
Coeff Variation	162.031849	Std Error Mean	0.00414711

Basic Statistical Measures			
Location		Variability	
Mean	0.027447	Std Deviation	0.04447
Median	0.018000	Variance	0.00198
Mode	0.018000	Range	0.29500
		Interquartile Range	0.00700

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.618332	Pr > t 	<.0001
Sign	M	57.5	Pr >= M 	<.0001
Signed Rank	S	3335	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.300
99%	0.300
95%	0.039
90%	0.030
75% Q3	0.023
50% Median	0.018
25% Q1	0.016
10%	0.013
5%	0.010
1%	0.006
0% Min	0.005

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Phosphorus- Total (Total) mg/L

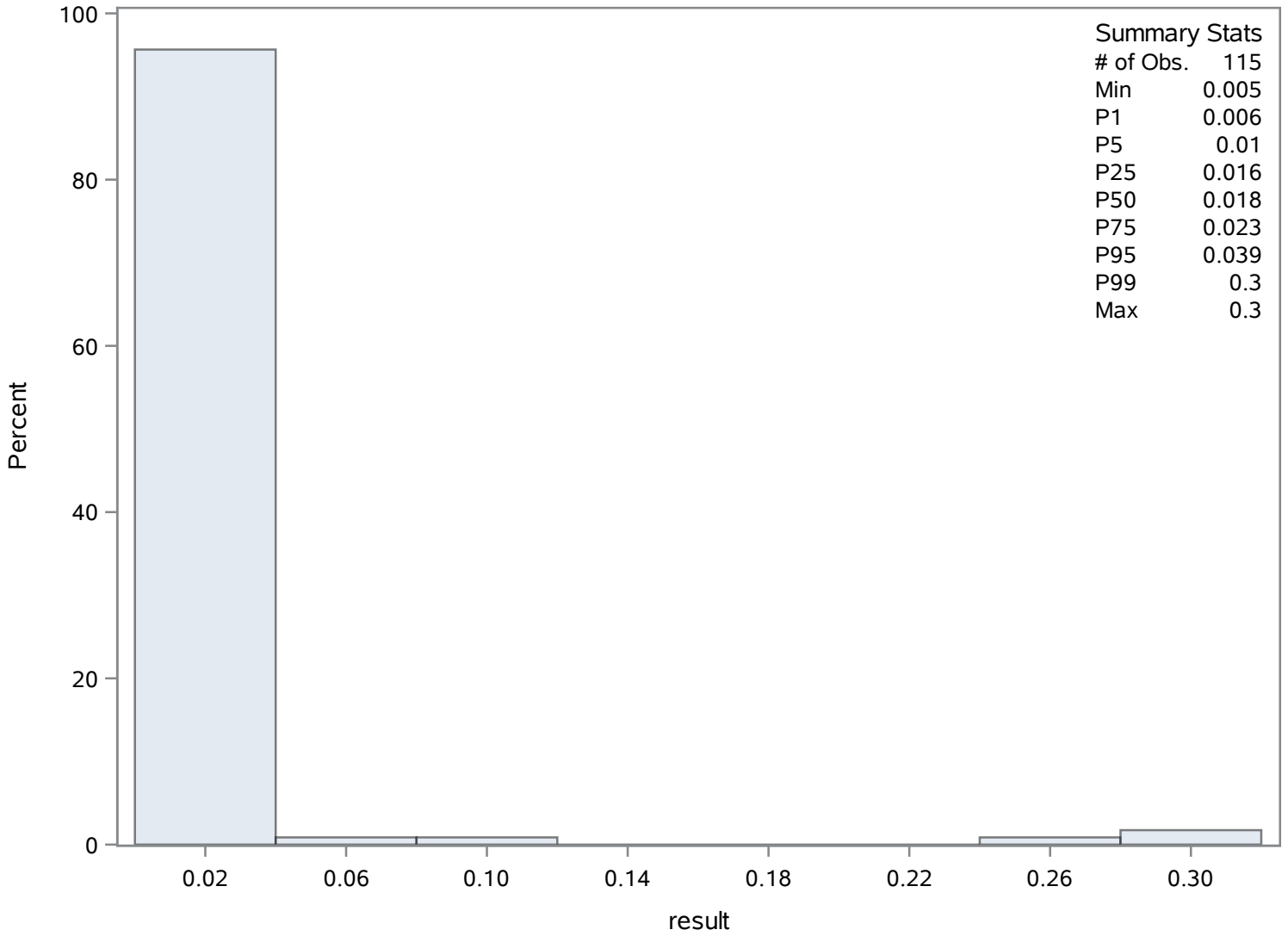
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	1684	0.066	1677
0.006	1608	0.114	1628
0.010	1618	0.265	1700
0.010	1617	0.300	1626
0.010	1613	0.300	1627

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	104	Sum Weights	104
Mean	4.89346154	Sum Observations	508.92
Std Deviation	3.30394432	Variance	10.9160481
Skewness	1.50599253	Kurtosis	2.61439383
Uncorrected SS	3614.7334	Corrected SS	1124.35295
Coeff Variation	67.5175292	Std Error Mean	0.3239784

Basic Statistical Measures			
Location		Variability	
Mean	4.893462	Std Deviation	3.30394
Median	3.905000	Variance	10.91605
Mode	1.300000	Range	16.35000
		Interquartile Range	3.94000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.10428	Pr > t 	<.0001
Sign	M	52	Pr >= M 	<.0001
Signed Rank	S	2730	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	17.500
99%	16.700
95%	11.800
90%	8.990
75% Q3	6.440
50% Median	3.905
25% Q1	2.500
10%	1.630
5%	1.400

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.220
0% Min	1.150

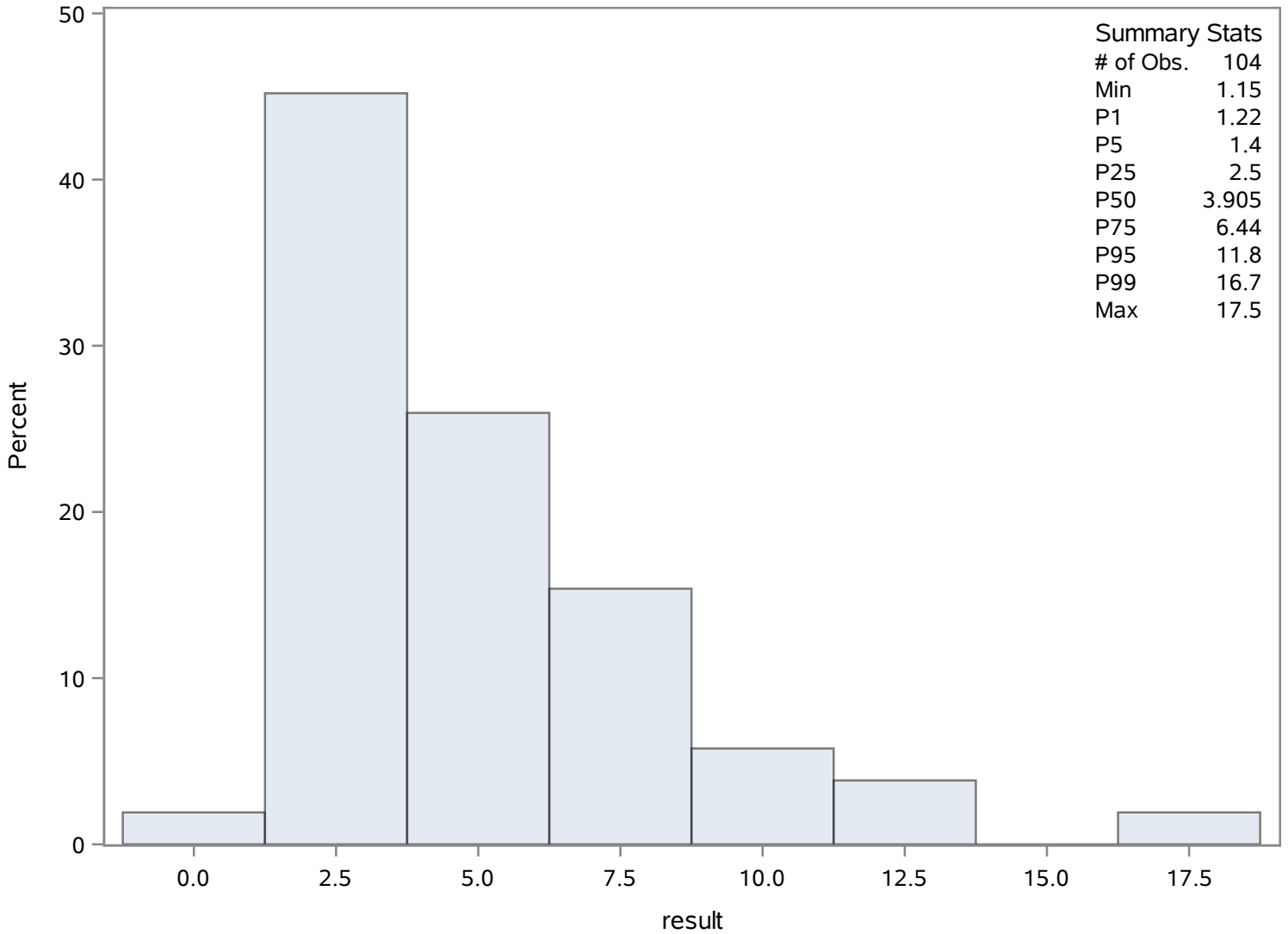
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.15	1733	12.4	1744
1.22	1771	12.5	1797
1.30	1722	13.4	1740
1.30	1721	16.7	1778
1.39	1772	17.5	1793

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	33	Sum Weights	33
Mean	3.78878788	Sum Observations	125.03
Std Deviation	2.99357412	Variance	8.96148598
Skewness	1.66914699	Kurtosis	2.49356927
Uncorrected SS	760.4797	Corrected SS	286.767552
Coeff Variation	79.0113939	Std Error Mean	0.52111436

Basic Statistical Measures			
Location		Variability	
Mean	3.788788	Std Deviation	2.99357
Median	2.650000	Variance	8.96149
Mode	1.800000	Range	12.25000
		Interquartile Range	2.68000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.27055	Pr > t 	<.0001
Sign	M	16.5	Pr >= M 	<.0001
Signed Rank	S	280.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.40
99%	13.40
95%	10.70
90%	7.55
75% Q3	4.40
50% Median	2.65
25% Q1	1.72
10%	1.45
5%	1.21
1%	1.15
0% Min	1.15

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

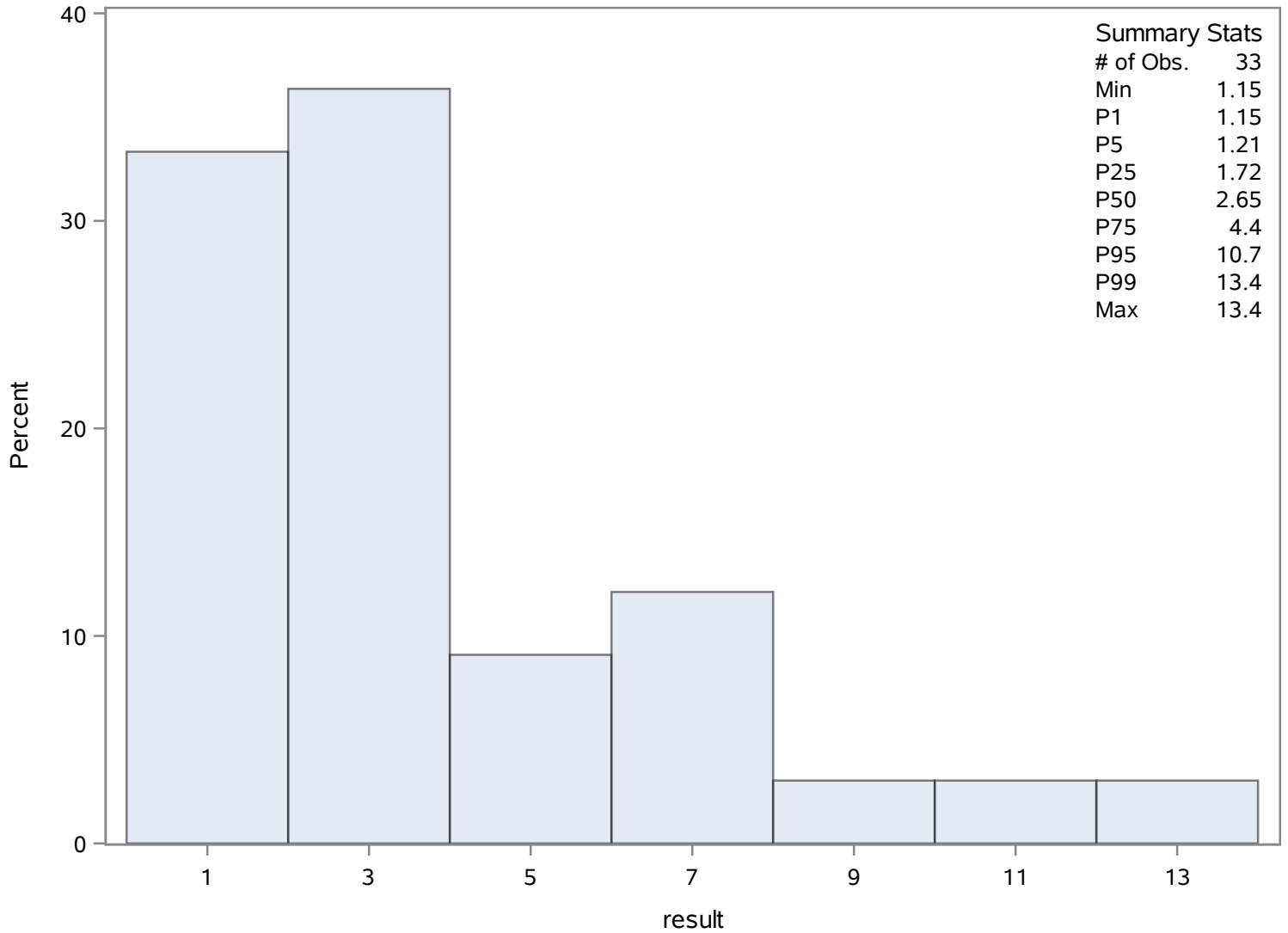
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.15	1831	7.47	1825
1.21	1850	7.55	1824
1.40	1851	8.90	1823
1.45	1828	10.70	1836
1.50	1830	13.40	1837

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Purge Volume (Total) Gallons

The UNIVARIATE Procedure
Variable: result

Moments			
N	23	Sum Weights	23
Mean	5.94	Sum Observations	136.62
Std Deviation	14.8821284	Variance	221.477745
Skewness	4.72230213	Kurtosis	22.5125778
Uncorrected SS	5684.0332	Corrected SS	4872.5104
Coeff Variation	250.540882	Std Error Mean	3.10313828

Basic Statistical Measures			
Location		Variability	
Mean	5.940000	Std Deviation	14.88213
Median	3.750000	Variance	221.47775
Mode	3.750000	Range	73.61000
		Interquartile Range	1.97000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	1.914191	Pr > t 	0.0687
Sign	M	11.5	Pr >= M 	<.0001
Signed Rank	S	138	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	73.89
99%	73.89
95%	5.96
90%	4.04
75% Q3	3.75
50% Median	3.75
25% Q1	1.78
10%	0.66
5%	0.44
1%	0.28
0% Min	0.28

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Purge Volume (Total) Gallons

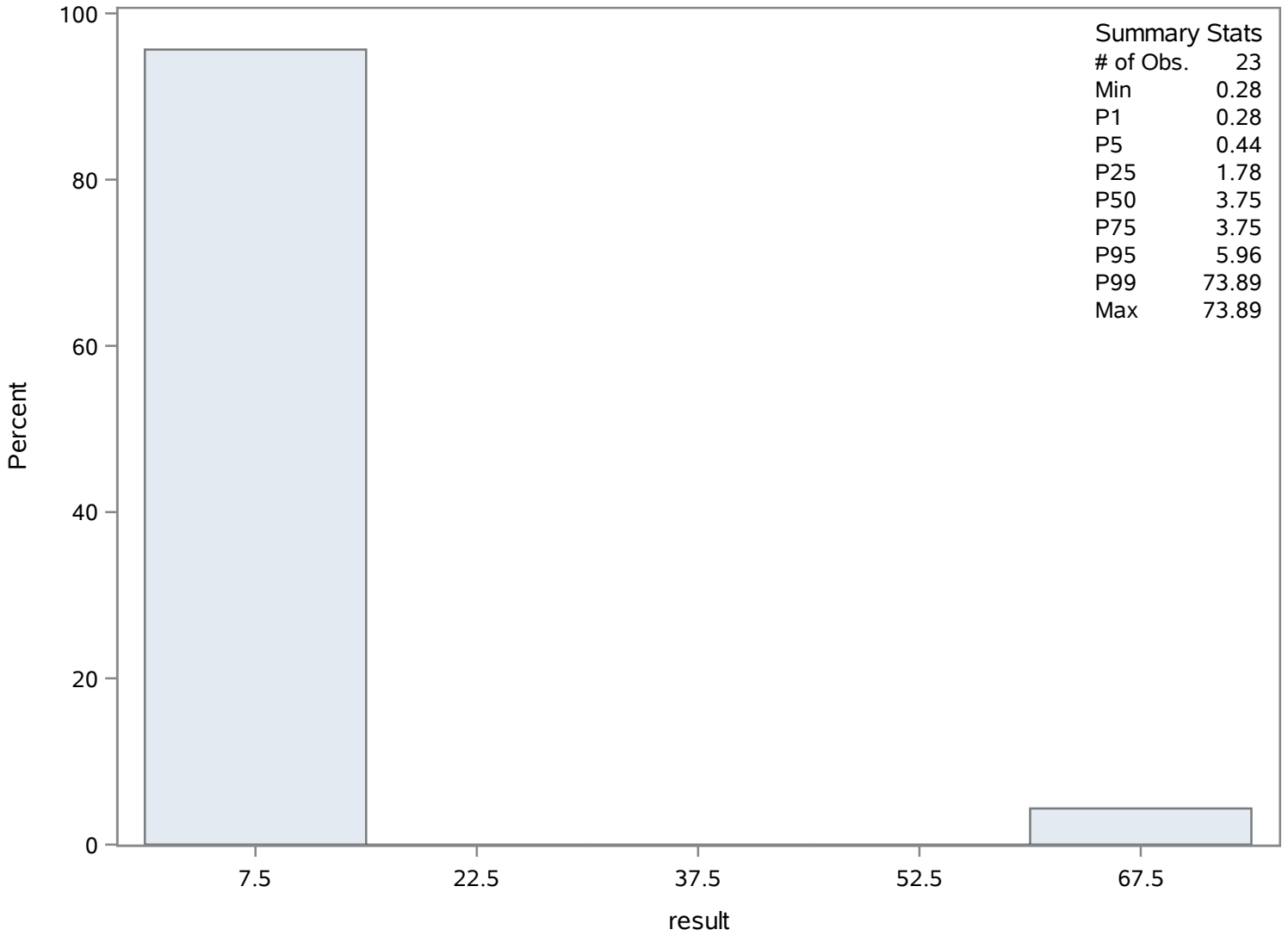
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.28	1869	3.75	1870
0.44	1854	3.88	1855
0.66	1871	4.04	1868
0.79	1867	5.96	1853
1.35	1852	73.89	1872

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Purge Volume (Total) Gallons

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	113	Sum Weights	113
Mean	586.929204	Sum Observations	66323
Std Deviation	291.950513	Variance	85235.1021
Skewness	1.51011158	Kurtosis	2.72580647
Uncorrected SS	48473237	Corrected SS	9546331.43
Coeff Variation	49.7420321	Std Error Mean	27.464394

Basic Statistical Measures			
Location		Variability	
Mean	586.9292	Std Deviation	291.95051
Median	515.0000	Variance	85235
Mode	259.0000	Range	1461
		Interquartile Range	354.00000

Note: The mode displayed is the smallest of 13 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.37055	Pr > t 	<.0001
Sign	M	56.5	Pr >= M 	<.0001
Signed Rank	S	3220.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1720
99%	1660
95%	1208
90%	942
75% Q3	717
50% Median	515
25% Q1	363
10%	293
5%	281

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

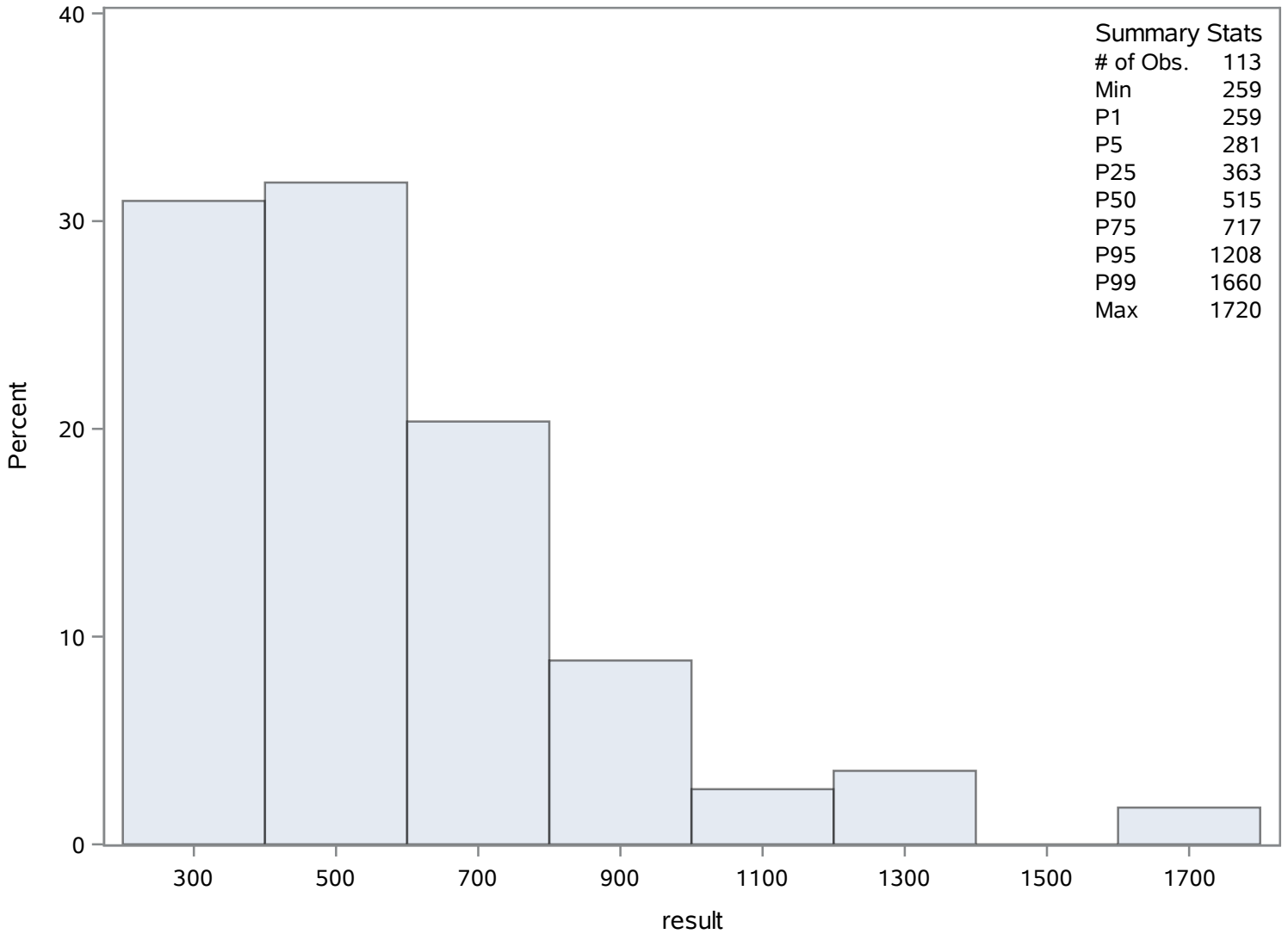
Quantiles (Definition 5)	
Level	Quantile
1%	259
0% Min	259

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
259	1905	1290	1966
259	1904	1320	1912
267	1943	1320	1954
270	1886	1660	1962
274	1945	1720	1947

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	9.19702667	Sum Observations	551.8216
Std Deviation	0.18102147	Variance	0.03276877
Skewness	-0.251483	Kurtosis	-0.420489
Uncorrected SS	5077.05133	Corrected SS	1.93335754
Coeff Variation	1.96826077	Std Error Mean	0.02336977

Basic Statistical Measures			
Location		Variability	
Mean	9.197027	Std Deviation	0.18102
Median	9.200000	Variance	0.03277
Mode	9.200000	Range	0.76830
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	393.5437	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.56830
99%	9.56830
95%	9.49515
90%	9.40000
75% Q3	9.30000
50% Median	9.20000
25% Q1	9.10000
10%	8.90000
5%	8.90000
1%	8.80000
0% Min	8.80000

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.8	2038	9.4000	2047
8.8	1995	9.4903	2003
8.9	2037	9.5000	2015
8.9	2036	9.5000	2018
8.9	2028	9.5683	2001

Chassahowitzka River - Fixed Station

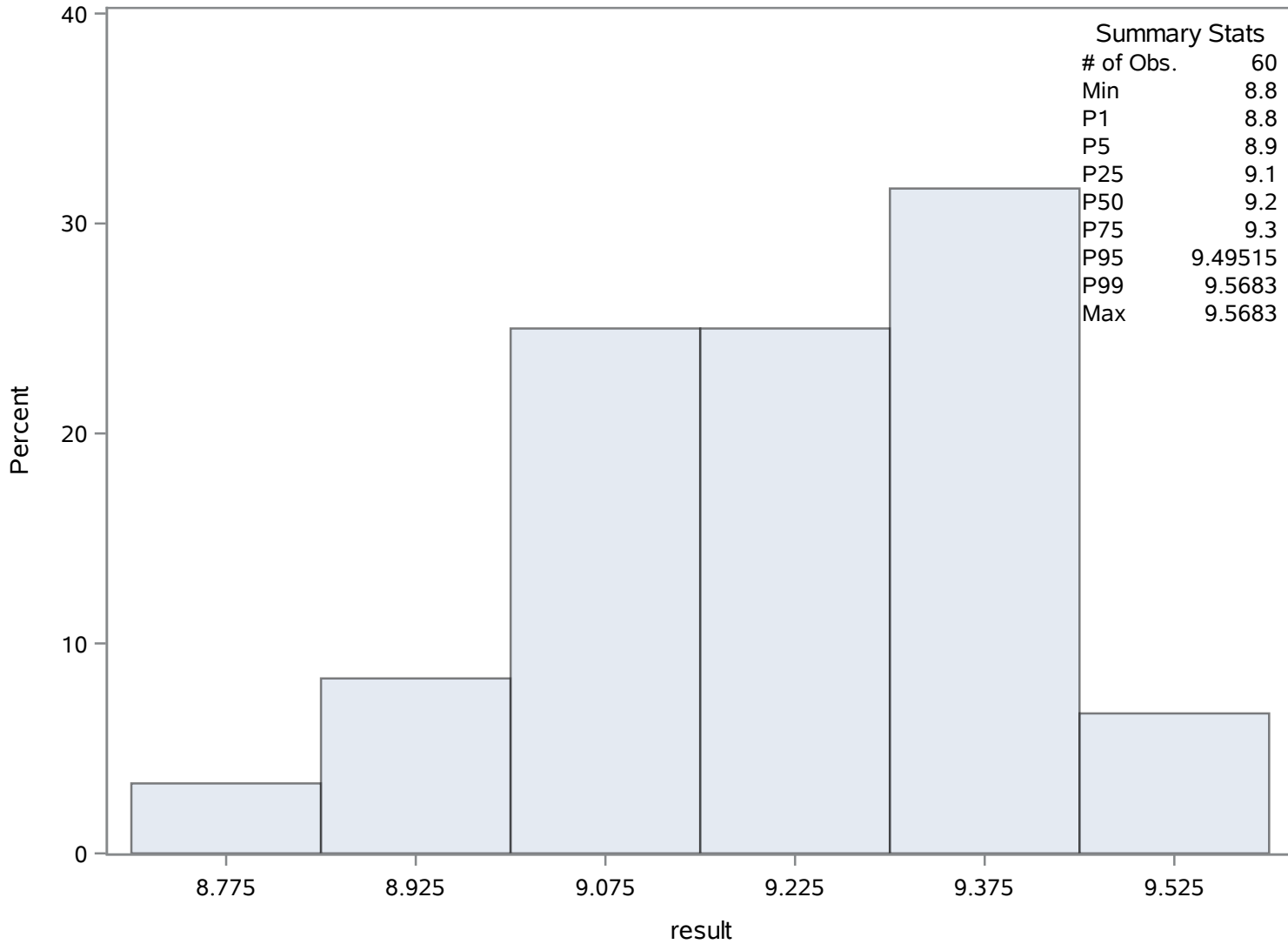
Source: Springs Data

Chassahowitzka 1 Spring

Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	104	Sum Weights	104
Mean	129.741923	Sum Observations	13493.16
Std Deviation	86.7412252	Variance	7524.04014
Skewness	1.45949501	Kurtosis	2.20071178
Uncorrected SS	2525604.66	Corrected SS	774976.135
Coeff Variation	66.8567438	Std Error Mean	8.50567692

Basic Statistical Measures			
Location		Variability	
Mean	129.7419	Std Deviation	86.74123
Median	104.5000	Variance	7524
Mode	153.0000	Range	411.40000
		Interquartile Range	100.45000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.25357	Pr > t 	<.0001
Sign	M	52	Pr >= M 	<.0001
Signed Rank	S	2730	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	443.00
99%	427.00
95%	317.00
90%	261.00
75% Q3	166.00
50% Median	104.50
25% Q1	65.55
10%	43.50
5%	39.00
1%	34.00
0% Min	31.60

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

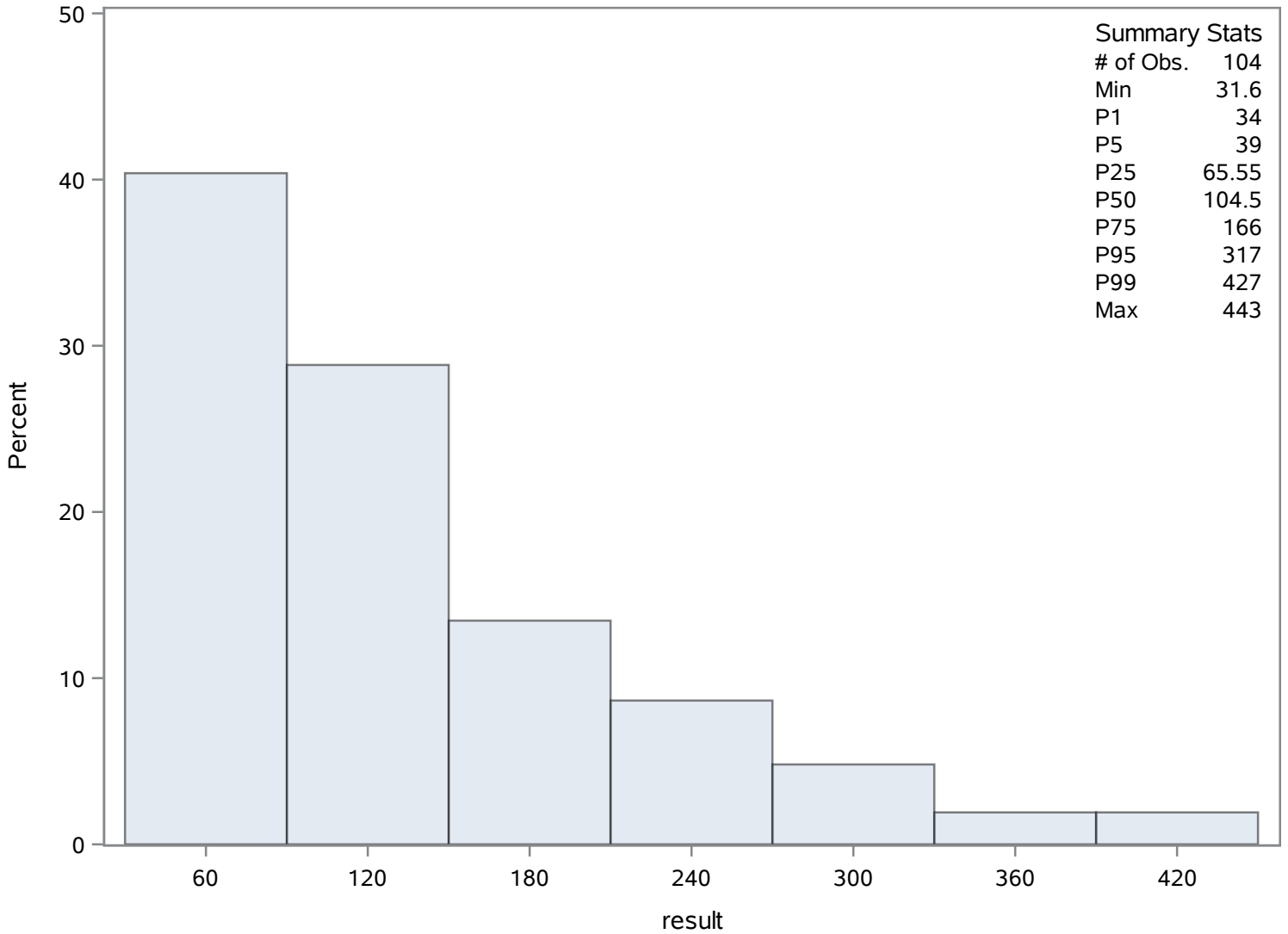
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
31.6	2104	320	2118
34.0	2055	338	2130
34.2	2066	368	2073
35.8	2105	427	2126
36.6	2106	443	2111

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	31	Sum Weights	31
Mean	96.1645161	Sum Observations	2981.1
Std Deviation	70.1086469	Variance	4915.22237
Skewness	1.37118207	Kurtosis	1.12728348
Uncorrected SS	434132.71	Corrected SS	147456.671
Coeff Variation	72.9049026	Std Error Mean	12.5918847

Basic Statistical Measures			
Location		Variability	
Mean	96.16452	Std Deviation	70.10865
Median	61.40000	Variance	4915
Mode	34.20000	Range	255.50000
		Interquartile Range	86.10000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.637023	Pr > t 	<.0001
Sign	M	15.5	Pr >= M 	<.0001
Signed Rank	S	248	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	287.0
99%	287.0
95%	265.0
90%	209.0
75% Q3	130.0
50% Median	61.4
25% Q1	43.9
10%	36.3
5%	34.2

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	31.5
0% Min	31.5

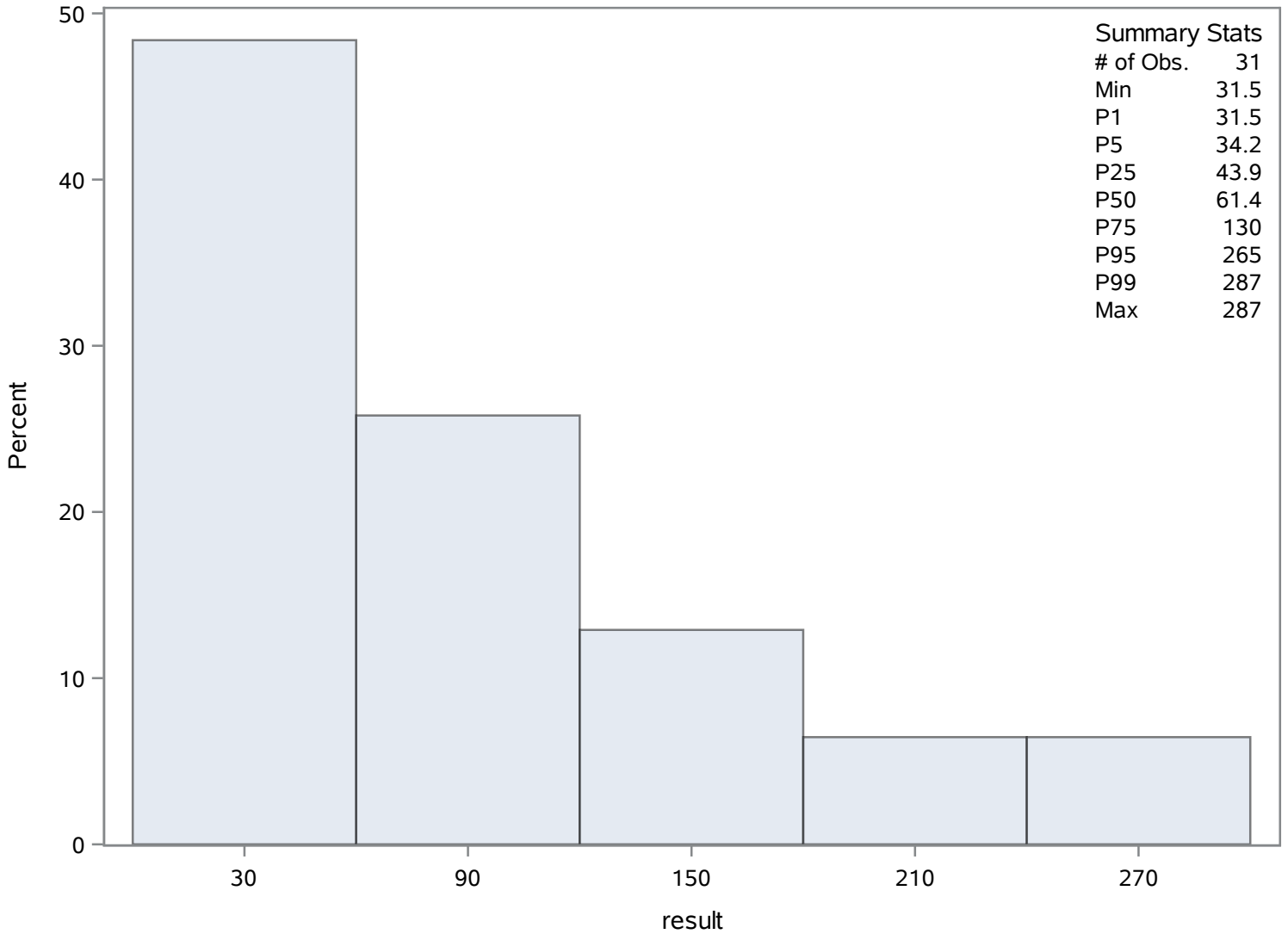
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
31.5	2181	167	2152
34.2	2164	209	2157
34.2	2163	209	2158
36.3	2182	265	2156
43.3	2179	287	2168

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	189	Sum Weights	189
Mean	1153.95873	Sum Observations	218098.2
Std Deviation	570.242752	Variance	325176.796
Skewness	1.37870141	Kurtosis	2.00974138
Uncorrected SS	312809560	Corrected SS	61133237.6
Coeff Variation	49.4162171	Std Error Mean	41.4790567

Basic Statistical Measures			
Location		Variability	
Mean	1153.959	Std Deviation	570.24275
Median	991.400	Variance	325177
Mode	525.000	Range	2712
		Interquartile Range	662.00000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	27.82027	Pr > t 	<.0001
Sign	M	94.5	Pr >= M 	<.0001
Signed Rank	S	8977.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3193.0
99%	3192.0
95%	2390.0
90%	1960.0
75% Q3	1407.0
50% Median	991.4
25% Q1	745.0
10%	574.0
5%	529.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

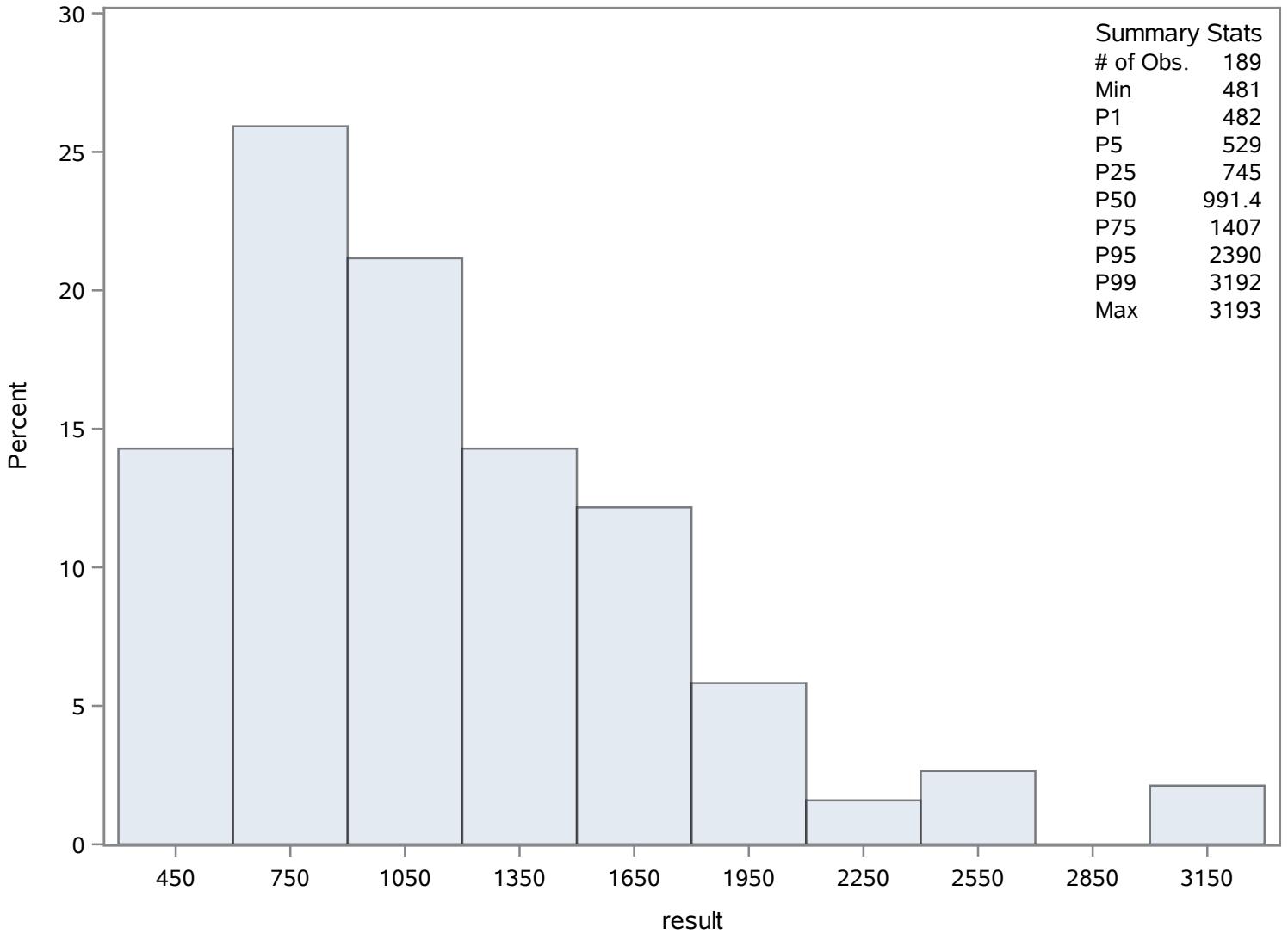
Quantiles (Definition 5)	
Level	Quantile
1%	482.0
0% Min	481.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
481	2209	2510.0	2223
482	2208	3078.3	2320
497	2190	3170.0	2289
504	2275	3192.0	2321
506	2279	3193.0	2290

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	0.29458696	Sum Observations	13.551
Std Deviation	0.08485296	Variance	0.00720003
Skewness	1.27044696	Kurtosis	1.78325719
Uncorrected SS	4.315949	Corrected SS	0.32400115
Coeff Variation	28.8040467	Std Error Mean	0.01251089

Basic Statistical Measures			
Location		Variability	
Mean	0.294587	Std Deviation	0.08485
Median	0.270000	Variance	0.00720
Mode	0.250000	Range	0.41000
		Interquartile Range	0.10000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.54645	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.560
99%	0.560
95%	0.442
90%	0.400
75% Q3	0.340
50% Median	0.270
25% Q1	0.240
10%	0.220
5%	0.210
1%	0.150
0% Min	0.150

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

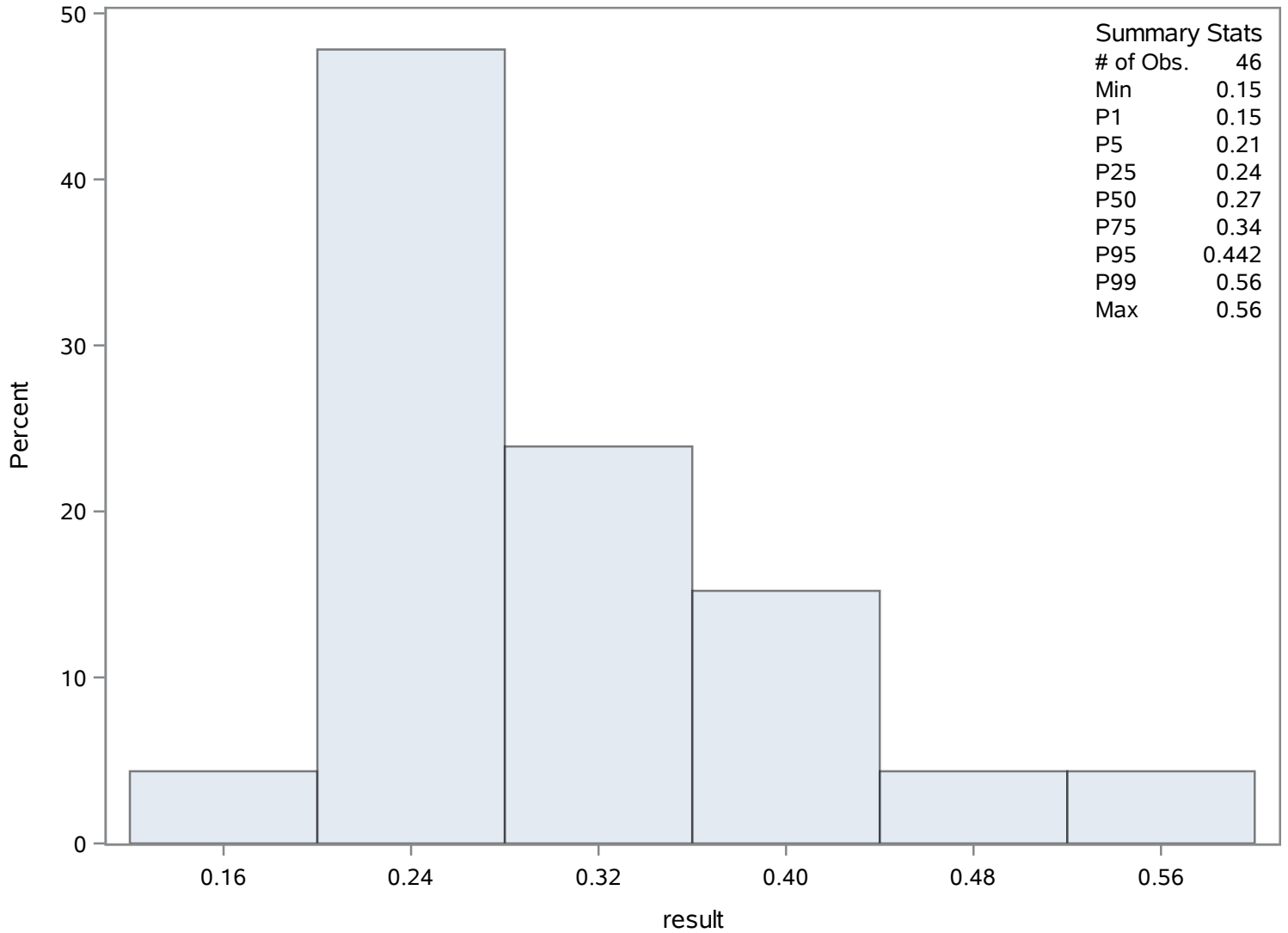
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.150	2412	0.400	2385
0.190	2398	0.440	2384
0.210	2407	0.442	2396
0.213	2399	0.530	2377
0.220	2411	0.560	2392

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	40	Sum Weights	40
Mean	203.225	Sum Observations	8129
Std Deviation	115.75161	Variance	13398.4353
Skewness	0.1533443	Kurtosis	-0.5744854
Uncorrected SS	2174555	Corrected SS	522538.975
Coeff Variation	56.9573675	Std Error Mean	18.3019365

Basic Statistical Measures			
Location		Variability	
Mean	203.2250	Std Deviation	115.75161
Median	210.0000	Variance	13398
Mode	50.0000	Range	400.00000
		Interquartile Range	200.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.10402	Pr > t 	<.0001
Sign	M	20	Pr >= M 	<.0001
Signed Rank	S	410	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	450.0
99%	450.0
95%	408.5
90%	370.0
75% Q3	250.0
50% Median	210.0
25% Q1	50.0
10%	50.0
5%	50.0
1%	50.0
0% Min	50.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

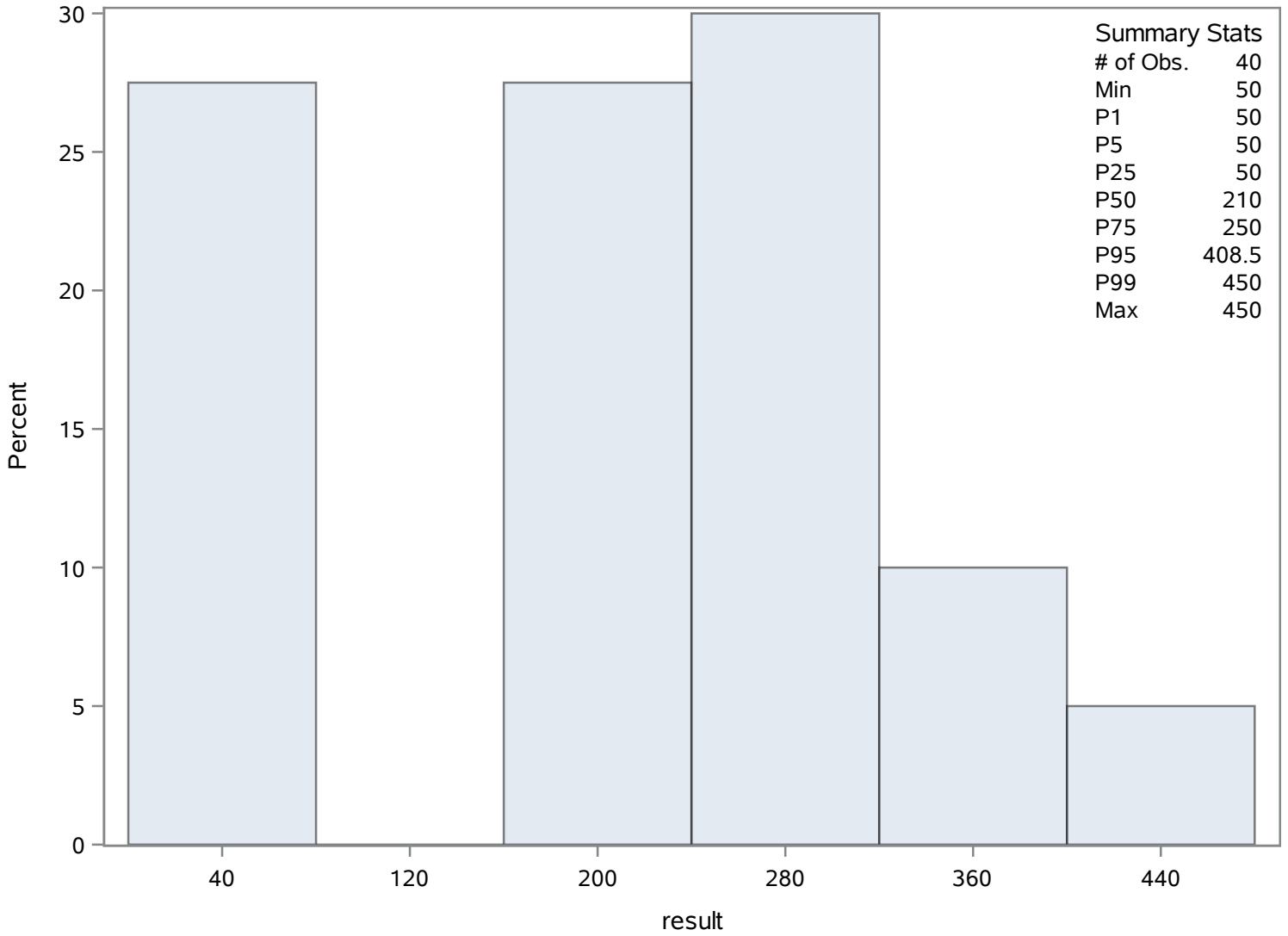
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
50	2430	370	2435
50	2429	370	2438
50	2428	380	2446
50	2427	437	2445
50	2426	450	2439

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	115	Sum Weights	115
Mean	38.7289565	Sum Observations	4453.83
Std Deviation	22.1264556	Variance	489.580036
Skewness	1.36568451	Kurtosis	2.07323218
Uncorrected SS	228304.313	Corrected SS	55812.1241
Coeff Variation	57.1315562	Std Error Mean	2.06330262

Basic Statistical Measures			
Location		Variability	
Mean	38.72896	Std Deviation	22.12646
Median	33.40000	Variance	489.58004
Mode	20.00000	Range	107.20000
		Interquartile Range	28.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.77037	Pr > t 	<.0001
Sign	M	57.5	Pr >= M 	<.0001
Signed Rank	S	3335	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	120.0
99%	119.0
95%	80.8
90%	68.1
75% Q3	49.0
50% Median	33.4
25% Q1	20.8
10%	17.0
5%	15.4
1%	13.0
0% Min	12.8

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

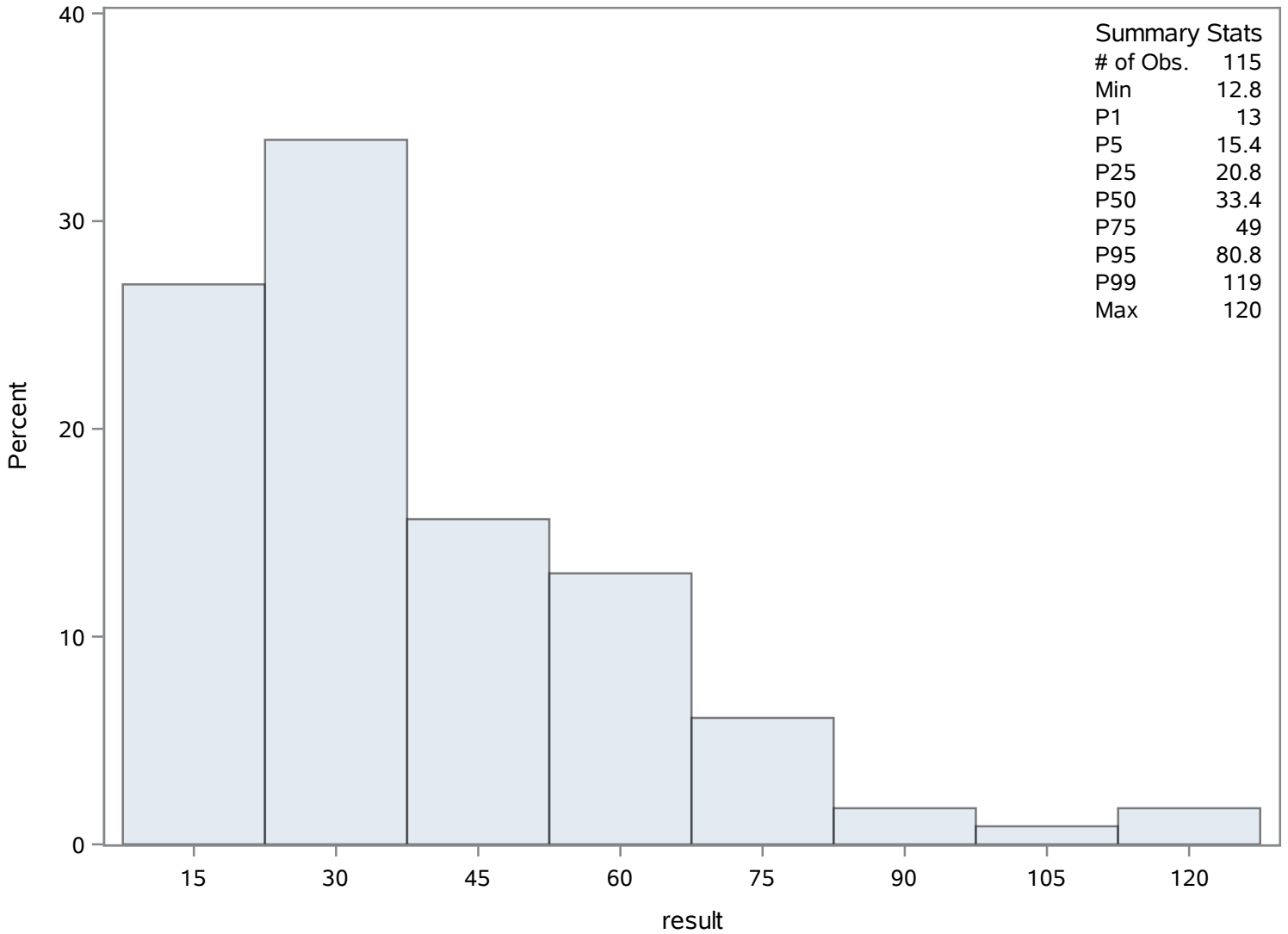
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.8	2488	85.3	2539
13.0	2487	91.1	2551
13.9	2486	98.5	2495
14.0	2469	119.0	2547
15.0	2525	120.0	2532

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	95	Sum Weights	95
Mean	23.2593684	Sum Observations	2209.64
Std Deviation	0.43910405	Variance	0.19281236
Skewness	-2.2359832	Kurtosis	20.2013208
Uncorrected SS	51412.9552	Corrected SS	18.1243621
Coeff Variation	1.88785885	Std Error Mean	0.04505112

Basic Statistical Measures			
Location		Variability	
Mean	23.25937	Std Deviation	0.43910
Median	23.20000	Variance	0.19281
Mode	23.20000	Range	4.40000
		Interquartile Range	0.23000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	516.2883	Pr > t 	<.0001
Sign	M	47.5	Pr >= M 	<.0001
Signed Rank	S	2280	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.80
99%	24.80
95%	23.90
90%	23.60
75% Q3	23.40
50% Median	23.20
25% Q1	23.17
10%	22.96
5%	22.80
1%	20.40
0% Min	20.40

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Temperature (Total) Deg. C

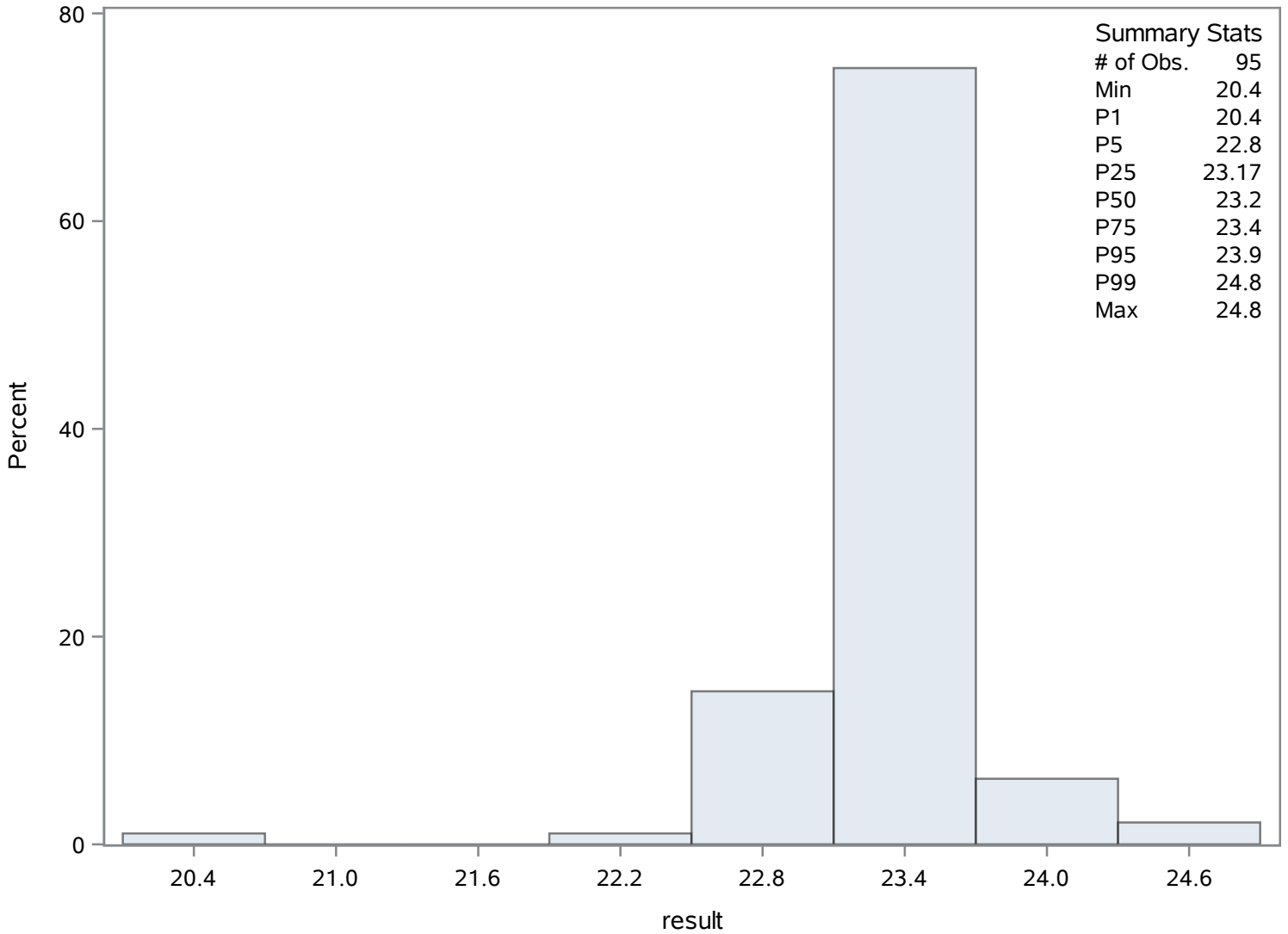
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.40	2606	23.9	2582
22.48	2610	24.0	2607
22.70	2612	24.2	2583
22.75	2644	24.4	2601
22.80	2667	24.8	2573

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Turbidity (Total) FTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	13	Sum Weights	13
Mean	0.10384615	Sum Observations	1.35
Std Deviation	0.03202563	Variance	0.00102564
Skewness	-0.0532244	Kurtosis	0.0609375
Uncorrected SS	0.1525	Corrected SS	0.01230769
Coeff Variation	30.8394963	Std Error Mean	0.00888231

Basic Statistical Measures			
Location		Variability	
Mean	0.103846	Std Deviation	0.03203
Median	0.100000	Variance	0.00103
Mode	0.100000	Range	0.10000
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.69134	Pr > t 	<.0001
Sign	M	6.5	Pr >= M 	0.0002
Signed Rank	S	45.5	Pr >= S 	0.0002

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.15
99%	0.15
95%	0.15
90%	0.15
75% Q3	0.10
50% Median	0.10
25% Q1	0.10
10%	0.05
5%	0.05
1%	0.05
0% Min	0.05

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) FTU

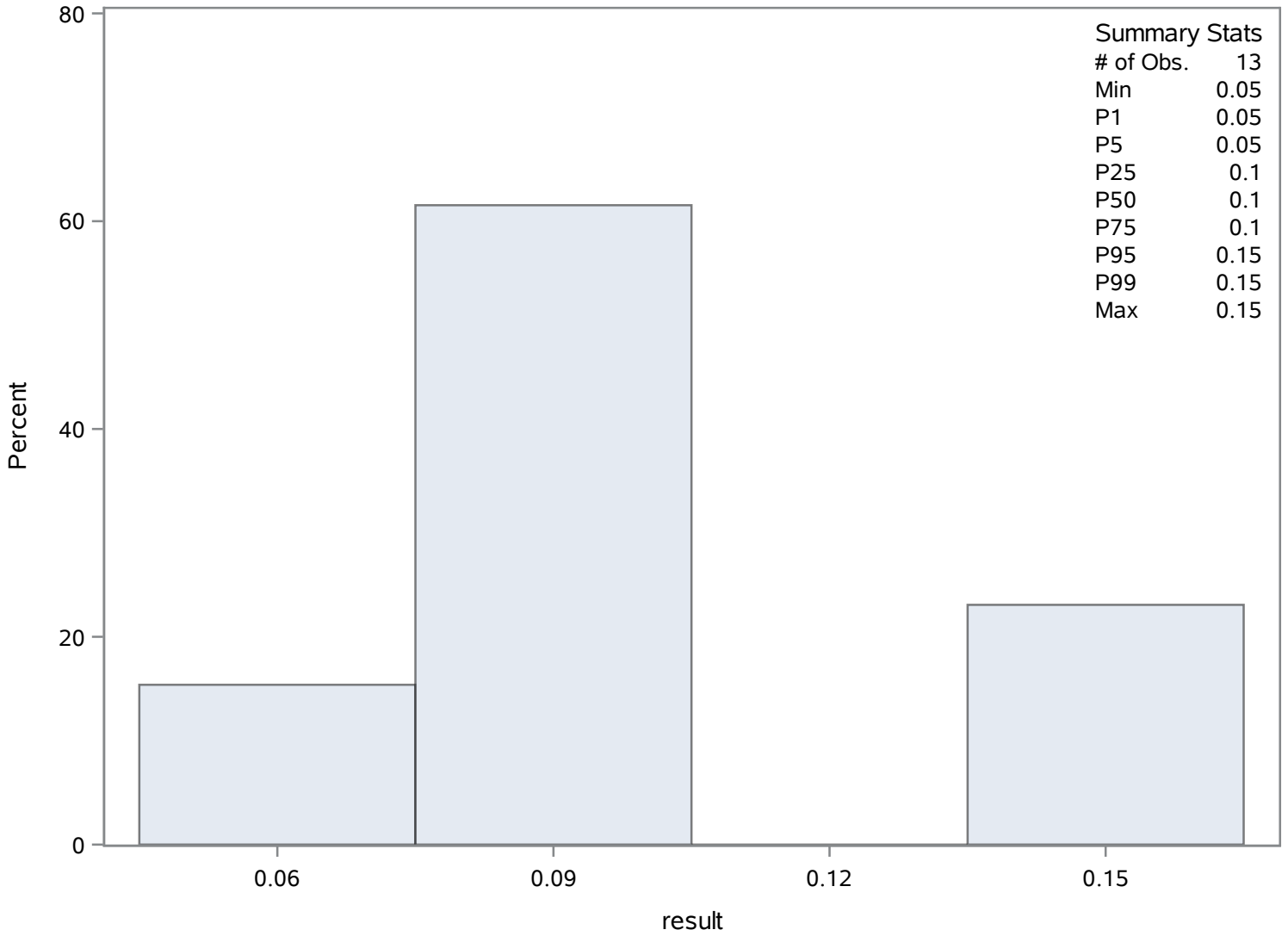
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.05	2679	0.10	2678
0.05	2669	0.10	2680
0.10	2680	0.15	2668
0.10	2678	0.15	2672
0.10	2676	0.15	2677

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) FTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	102	Sum Weights	102
Mean	0.18117647	Sum Observations	18.48
Std Deviation	0.22506014	Variance	0.05065207
Skewness	4.8727979	Kurtosis	29.3305231
Uncorrected SS	8.464	Corrected SS	5.11585882
Coeff Variation	124.221507	Std Error Mean	0.02228427

Basic Statistical Measures			
Location		Variability	
Mean	0.181176	Std Deviation	0.22506
Median	0.130000	Variance	0.05065
Mode	0.130000	Range	1.78000
		Interquartile Range	0.12000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.130239	Pr > t 	<.0001
Sign	M	51	Pr >= M 	<.0001
Signed Rank	S	2626.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.80
99%	1.13
95%	0.49
90%	0.30
75% Q3	0.20
50% Median	0.13
25% Q1	0.08
10%	0.05
5%	0.05
1%	0.05
0% Min	0.02

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

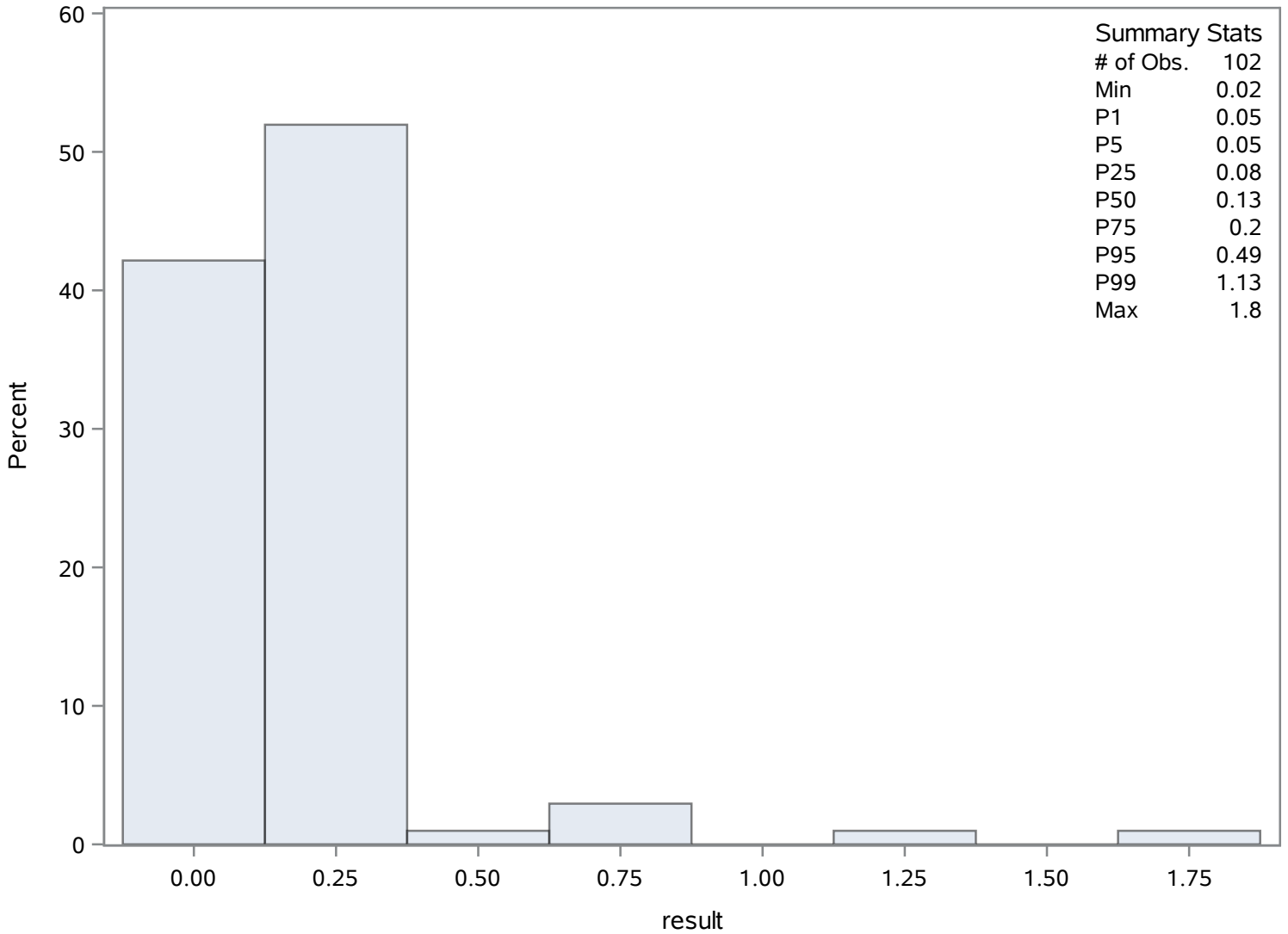
Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.02	2681	0.65	2754
0.05	2693	0.66	2763
0.05	2692	0.77	2729
0.05	2691	1.13	2731
0.05	2690	1.80	2762

Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Chassahowitzka 1 Spring

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	95	Sum Weights	95
Mean	7.45357895	Sum Observations	708.09
Std Deviation	0.16088132	Variance	0.0258828
Skewness	-0.479097	Kurtosis	5.35911207
Uncorrected SS	5280.2377	Corrected SS	2.43298316
Coeff Variation	2.15844392	Std Error Mean	0.01650608

Basic Statistical Measures			
Location		Variability	
Mean	7.453579	Std Deviation	0.16088
Median	7.460000	Variance	0.02588
Mode	7.600000	Range	1.35000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	451.5658	Pr > t 	<.0001
Sign	M	47.5	Pr >= M 	<.0001
Signed Rank	S	2280	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.08
99%	8.08
95%	7.65
90%	7.61
75% Q3	7.56
50% Median	7.46
25% Q1	7.36
10%	7.28
5%	7.21
1%	6.73
0% Min	6.73

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
pH (Total) SU

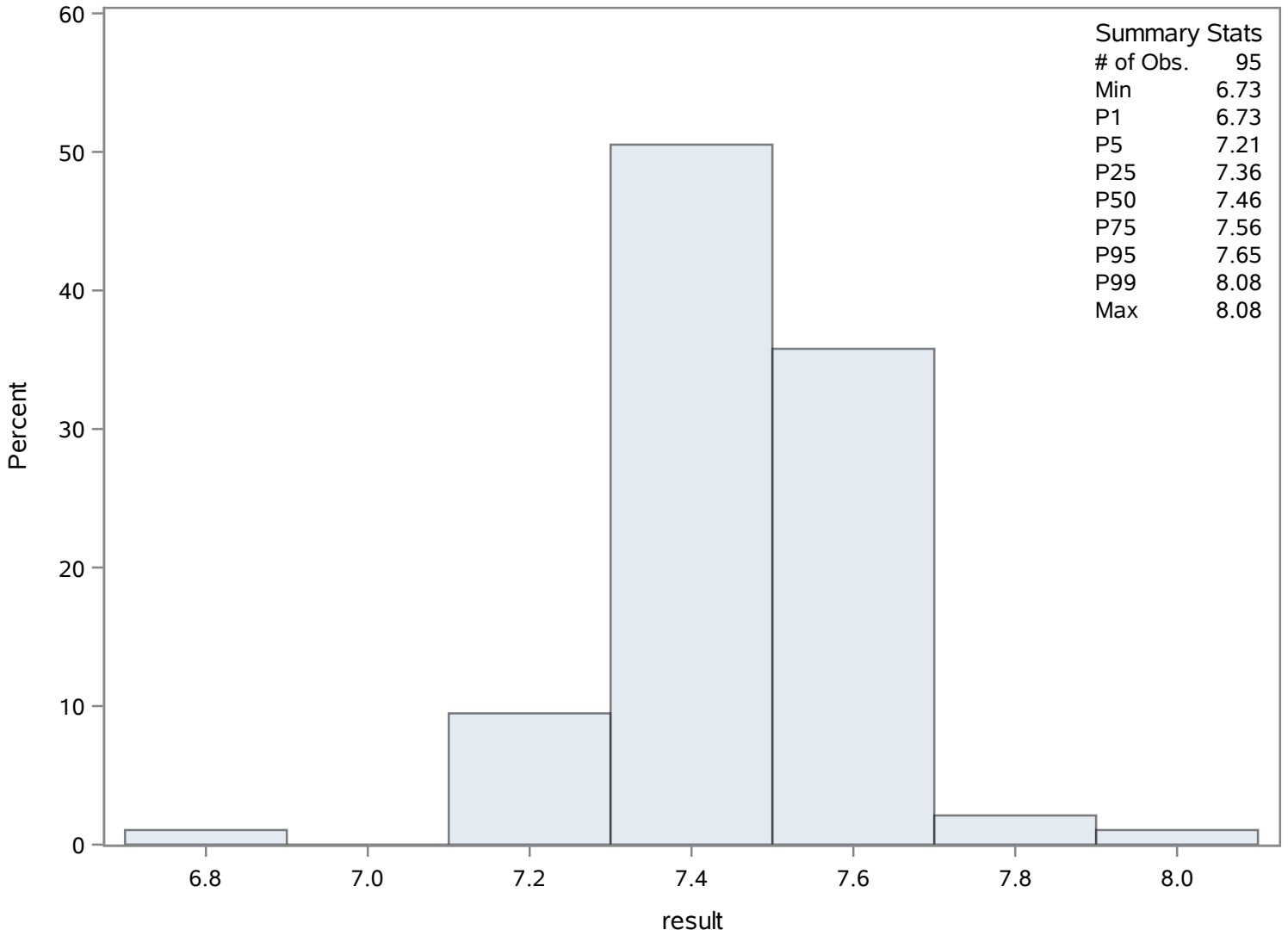
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.73	2799	7.65	2789
7.10	2836	7.67	2793
7.16	2872	7.71	2813
7.17	2865	7.77	2804
7.21	2832	8.08	2816

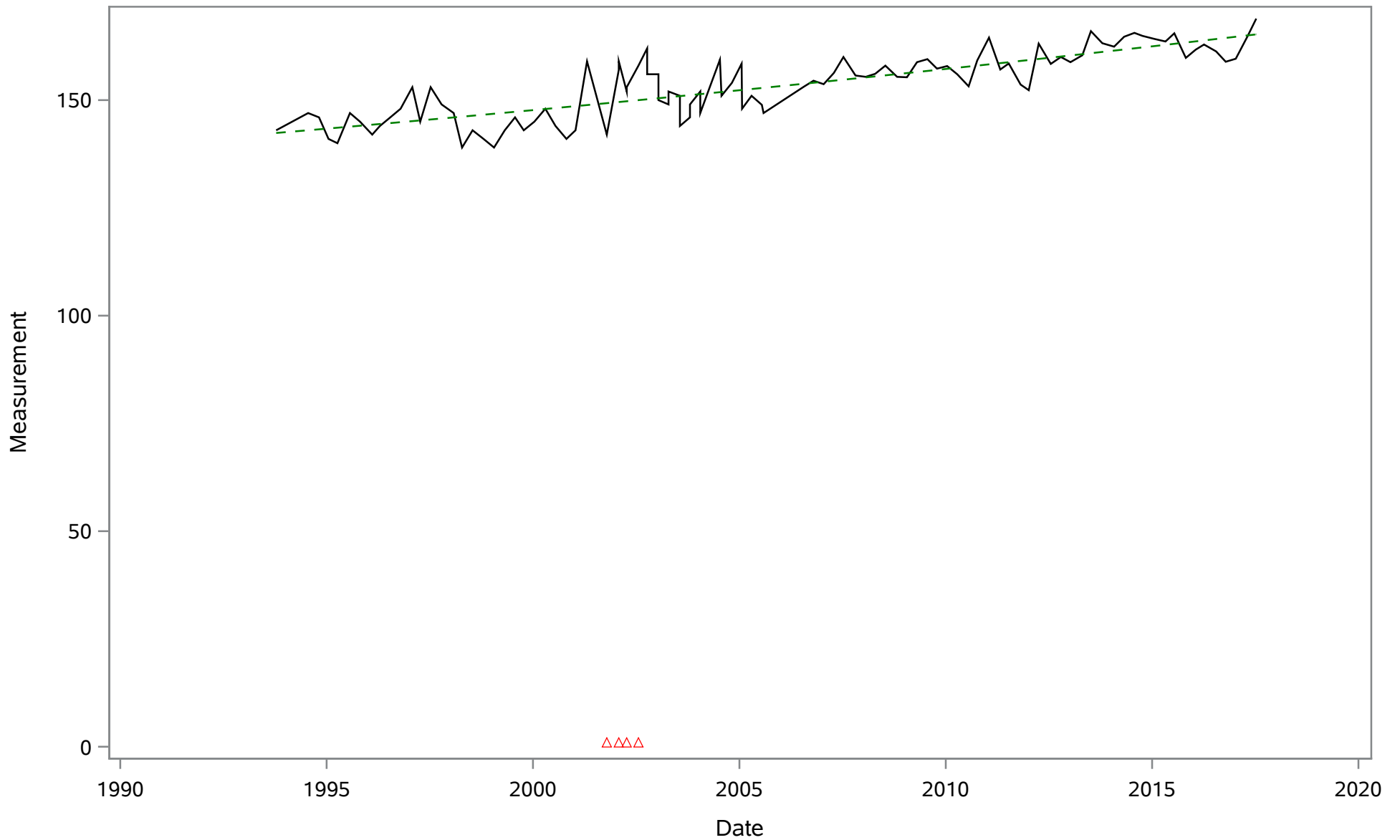
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

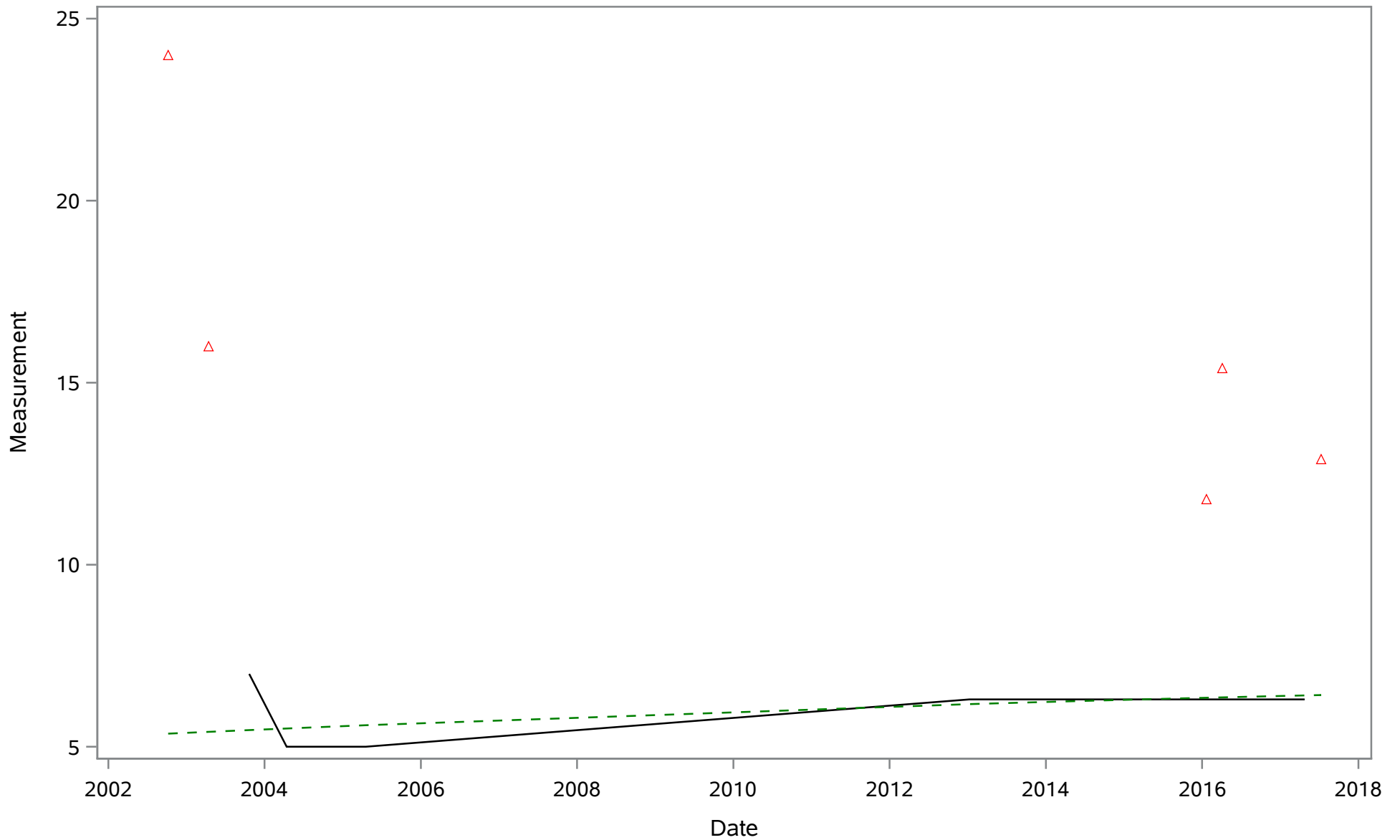


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Alkalinity (Total) mg/L



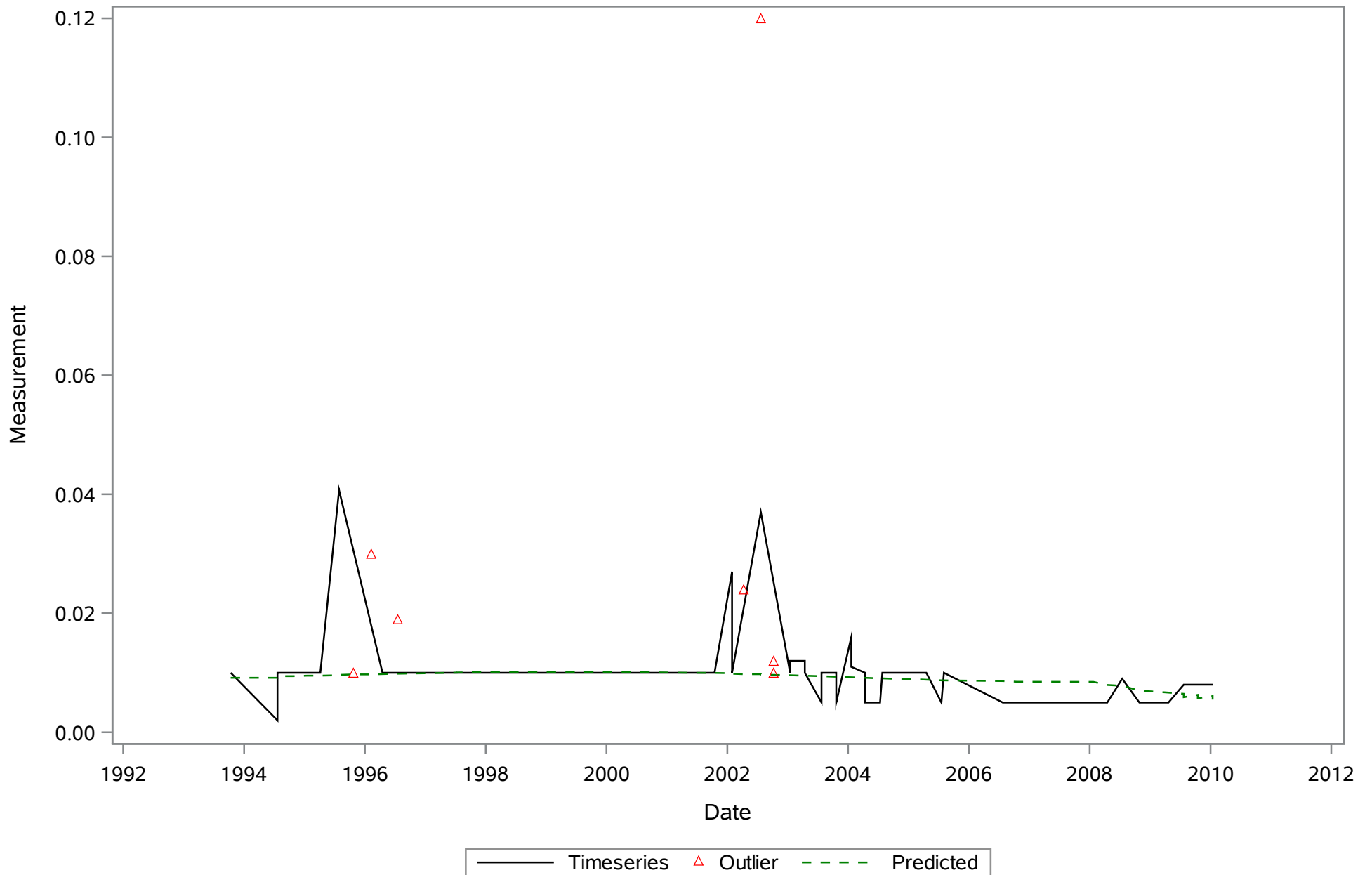
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Aluminum (Dissolved) ug/L

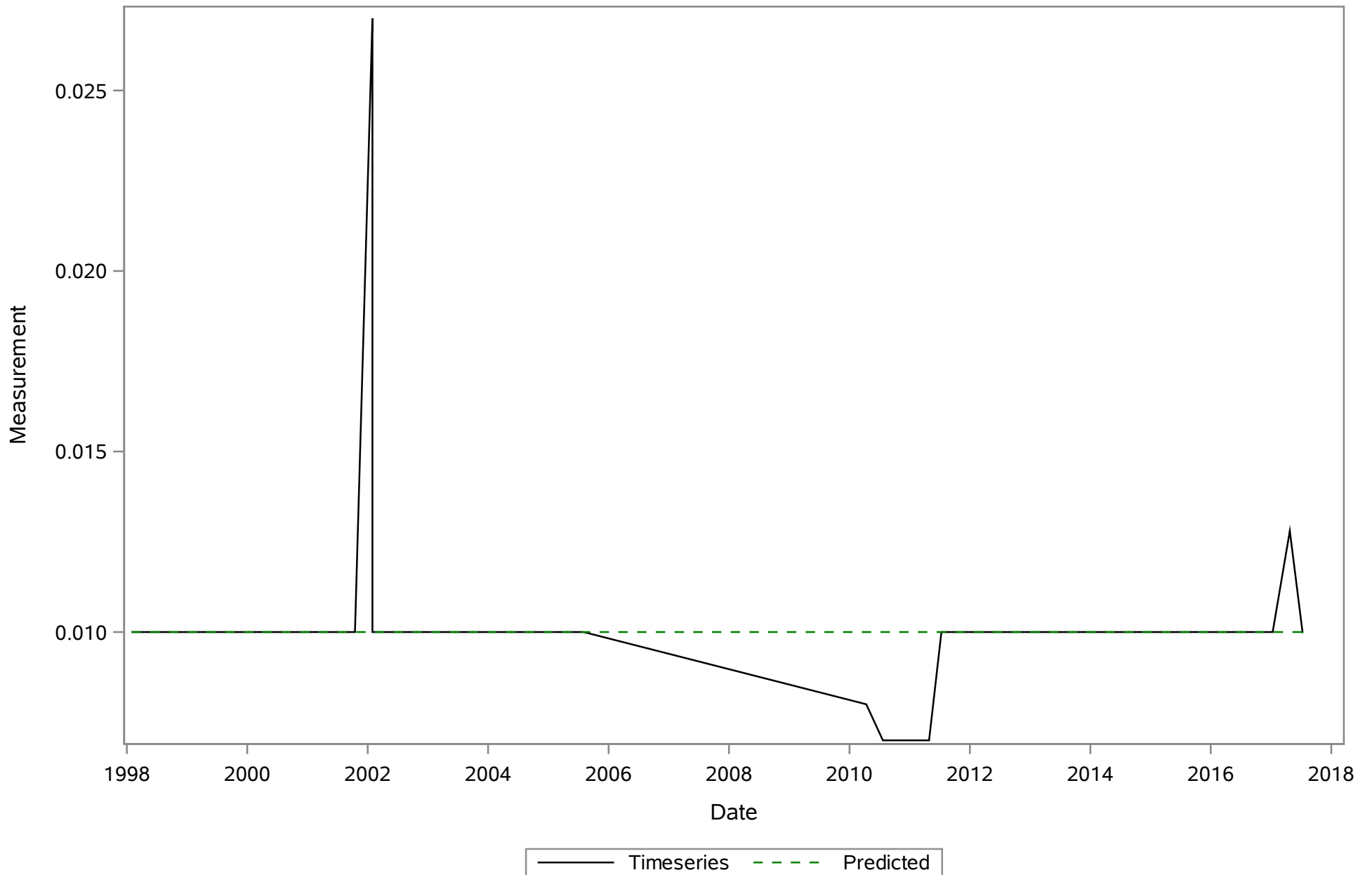


— Timeseries △ Outlier - - - Predicted

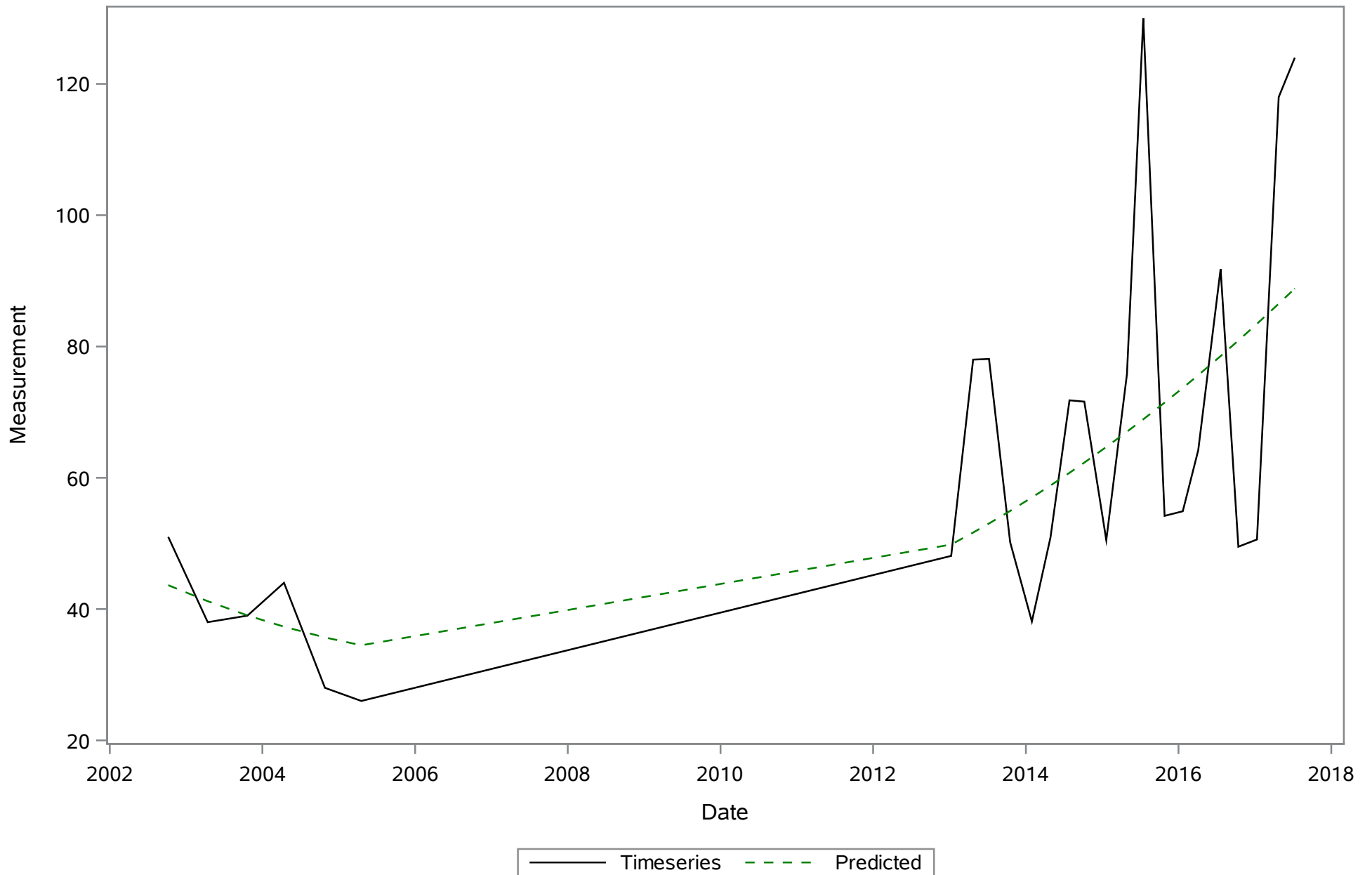
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Dissolved) mg/L



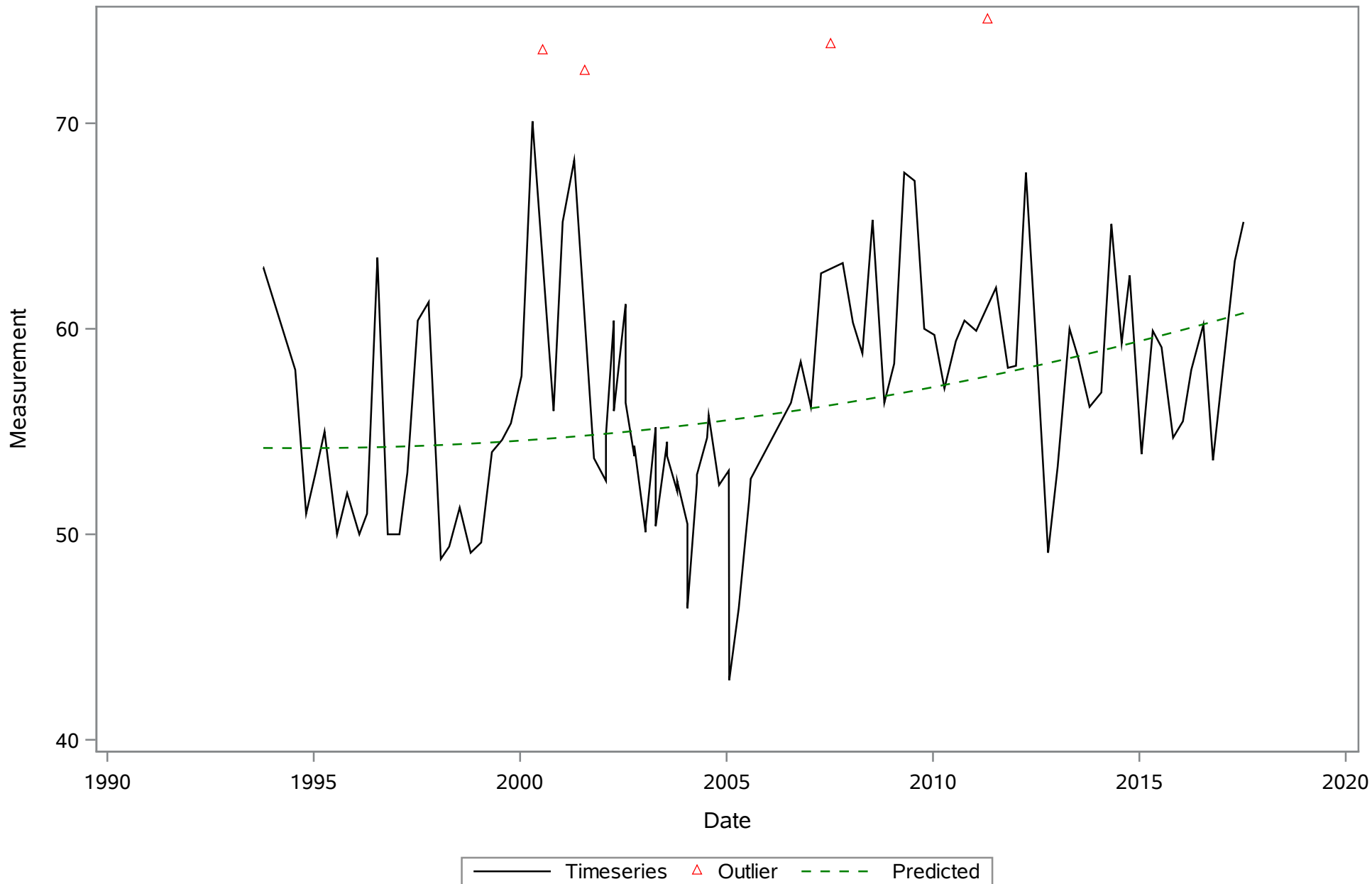
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Total) mg/L



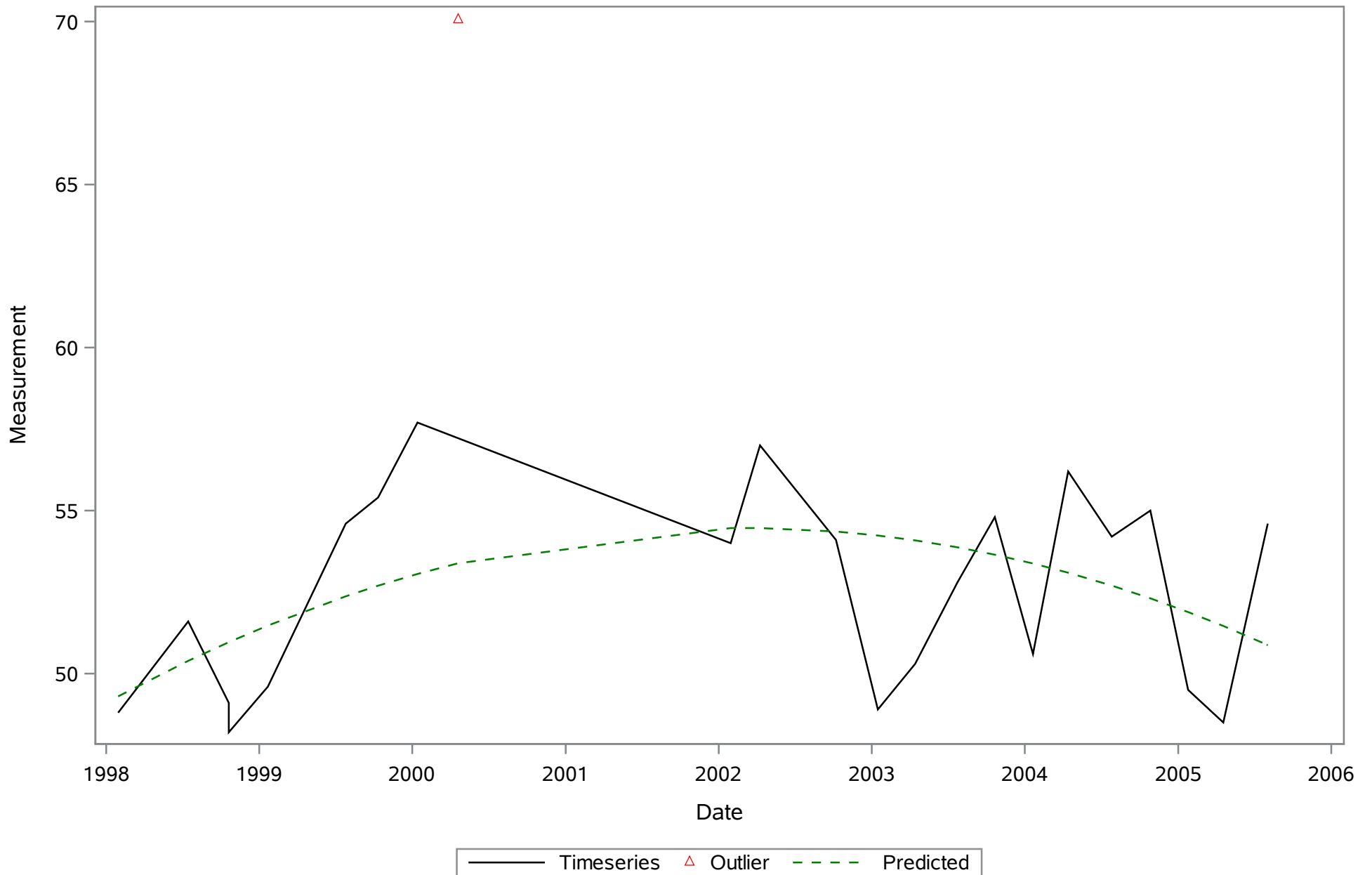
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Boron (Dissolved) ug/L



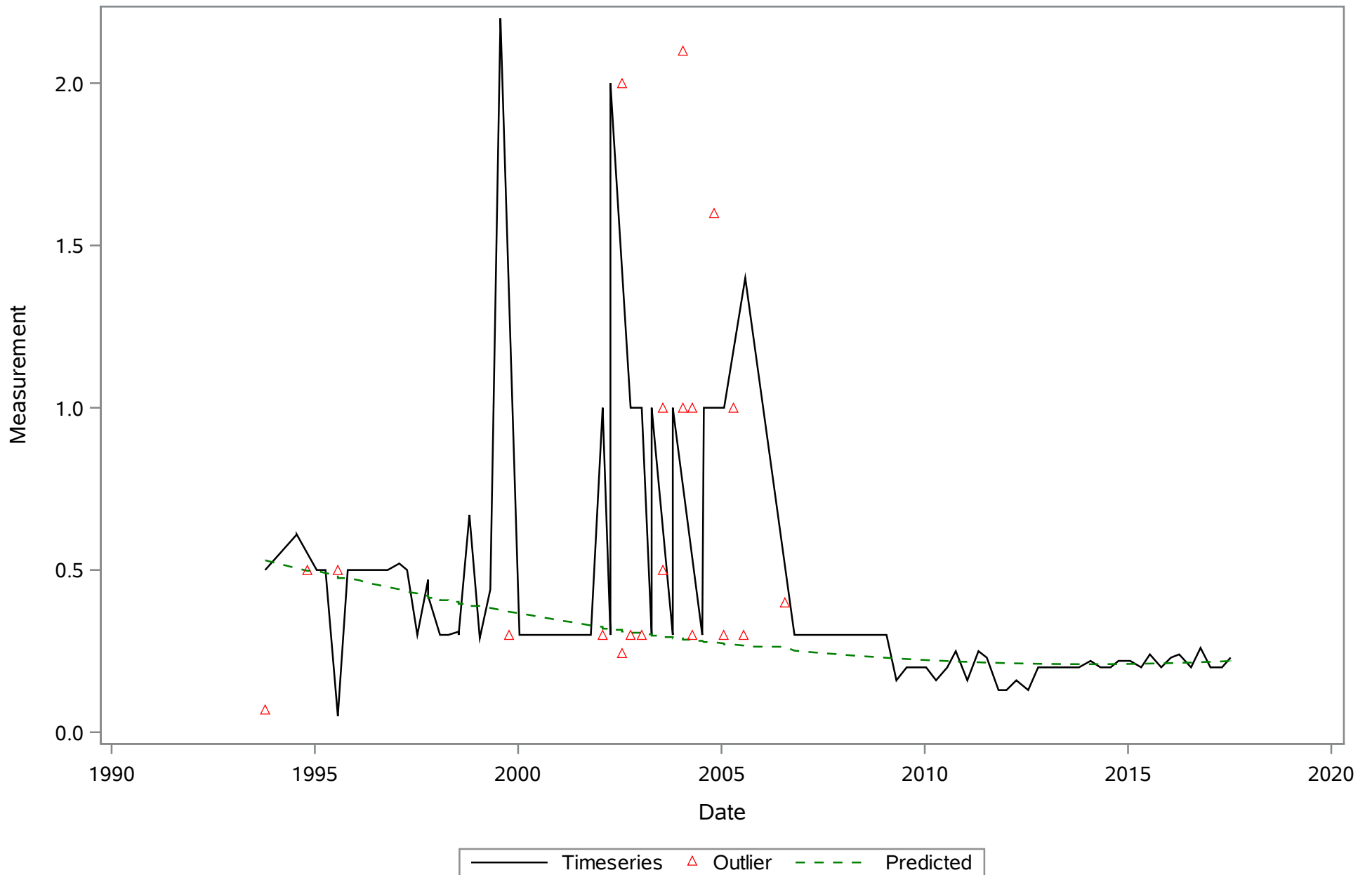
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Dissolved) mg/L



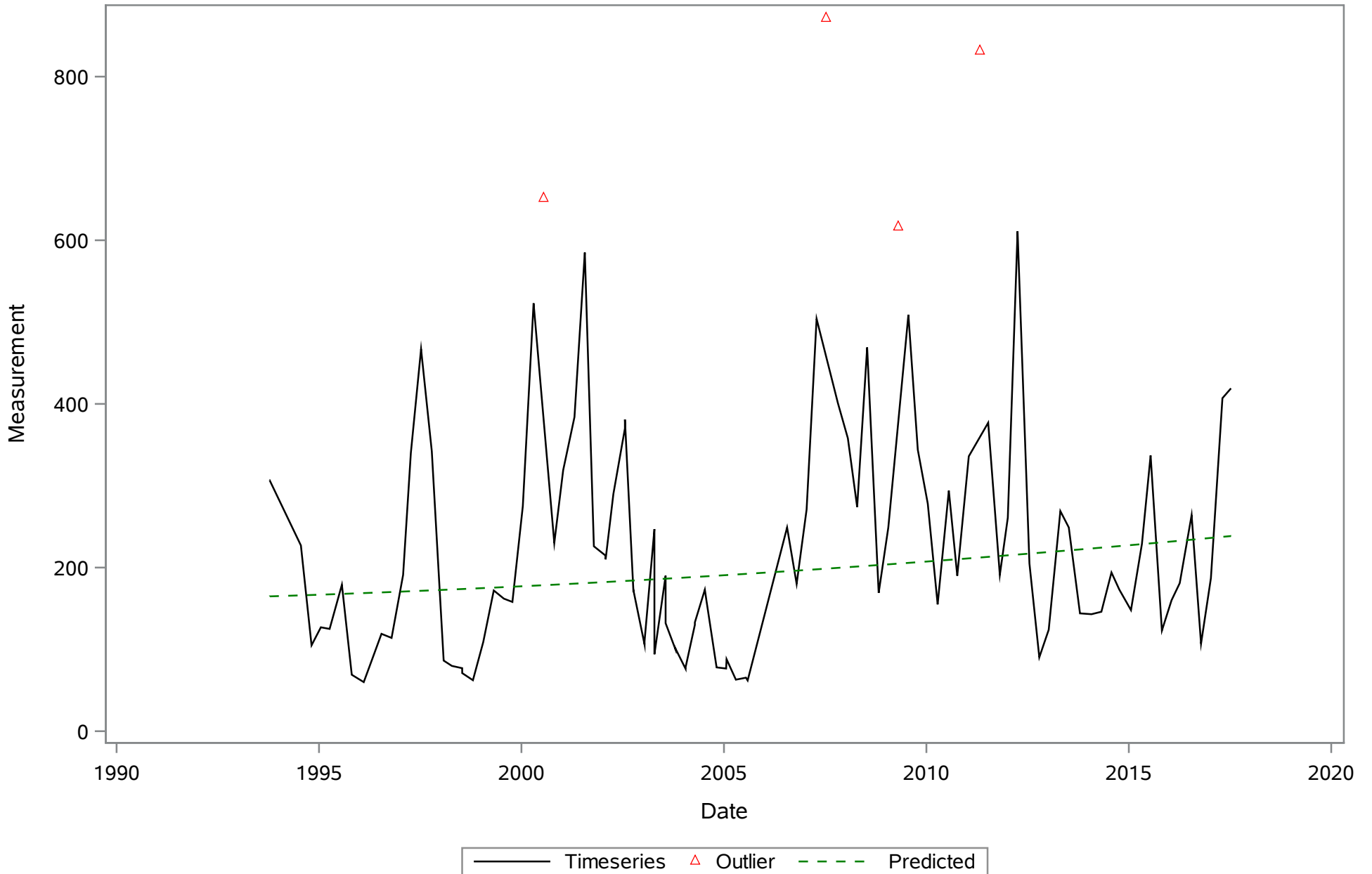
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Total) mg/L



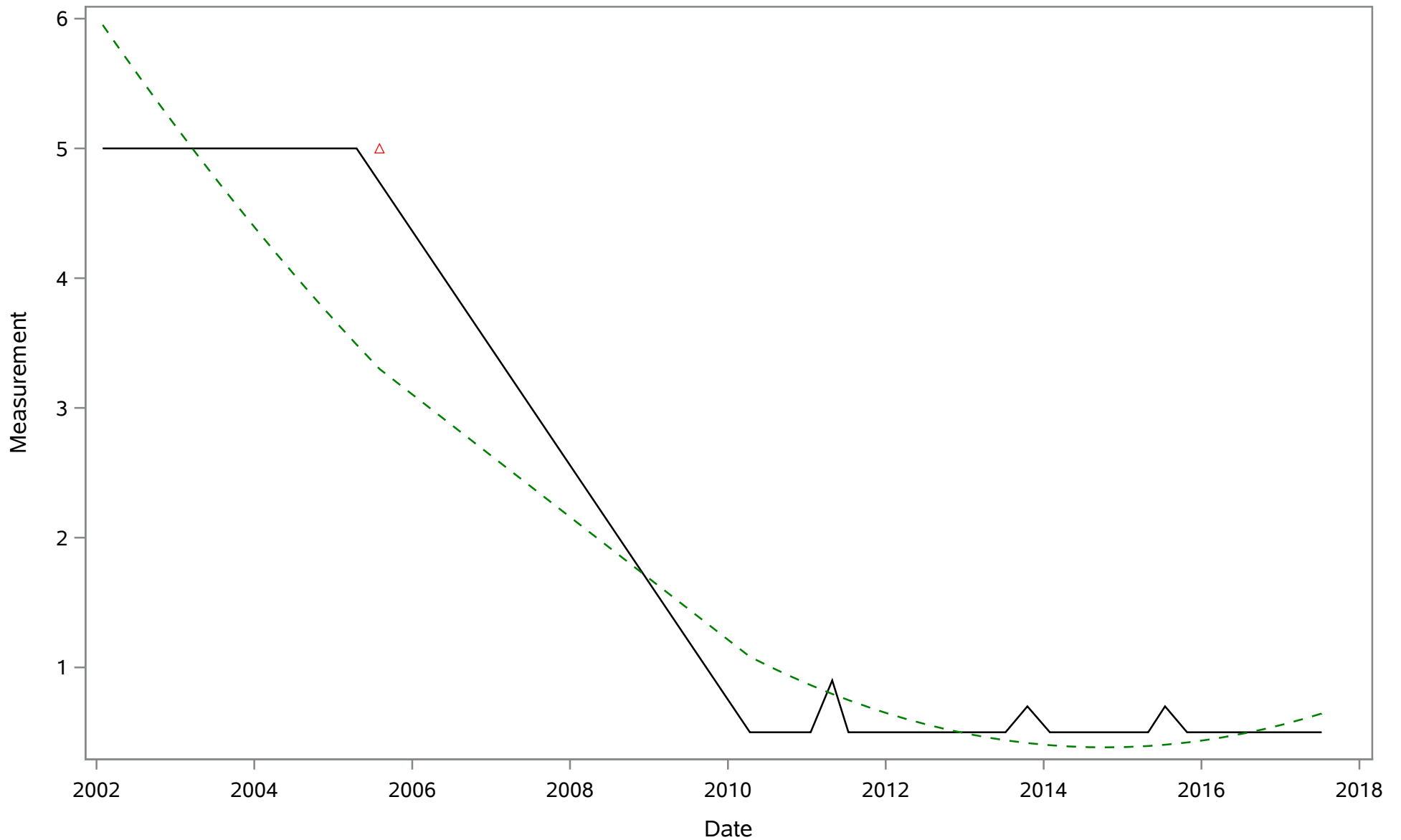
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Carbon- Total Organic (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Chloride (Dissolved) mg/L

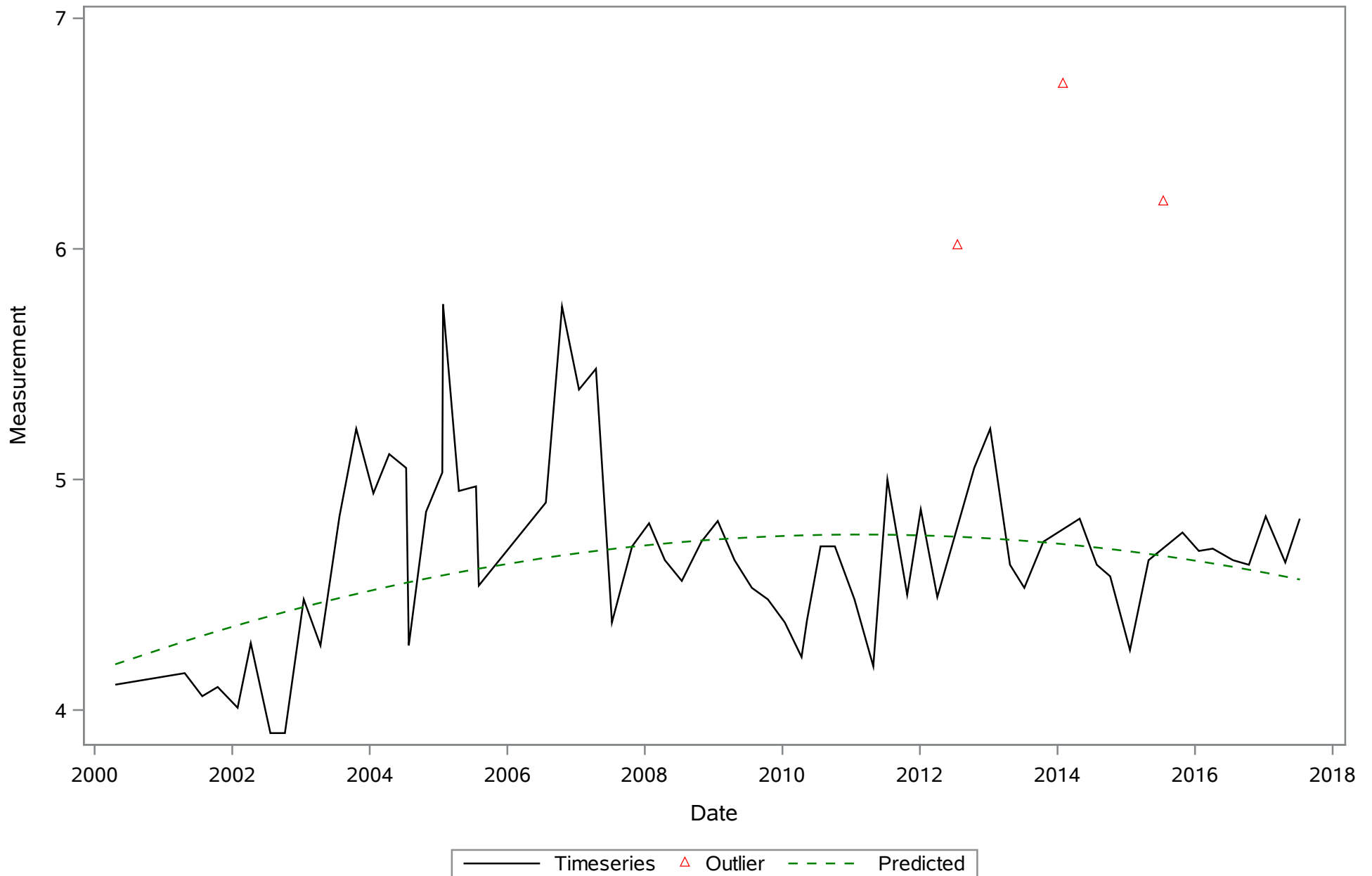


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Color (Dissolved) PCU

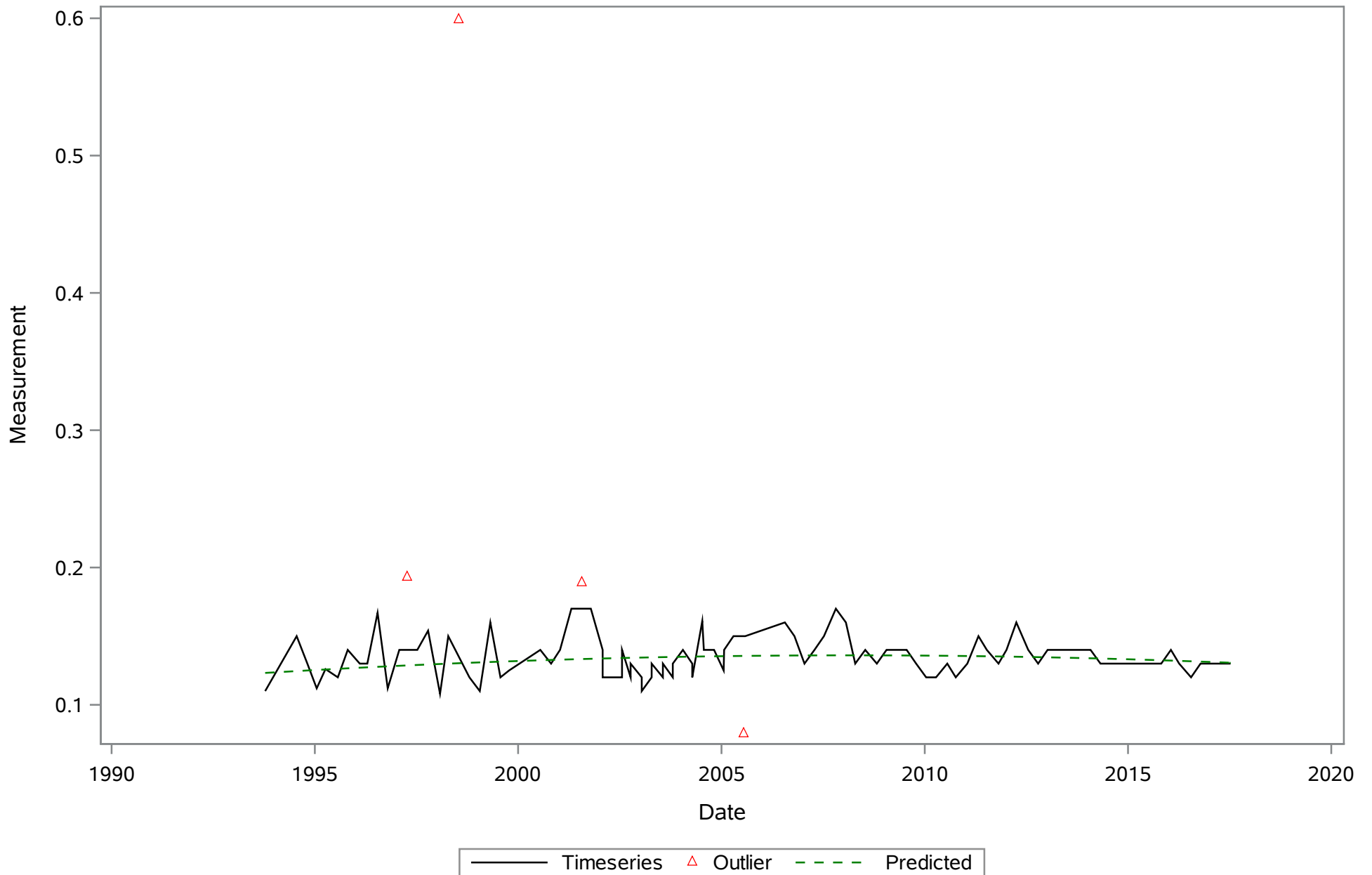


— Timeseries △ Outlier - - - Predicted

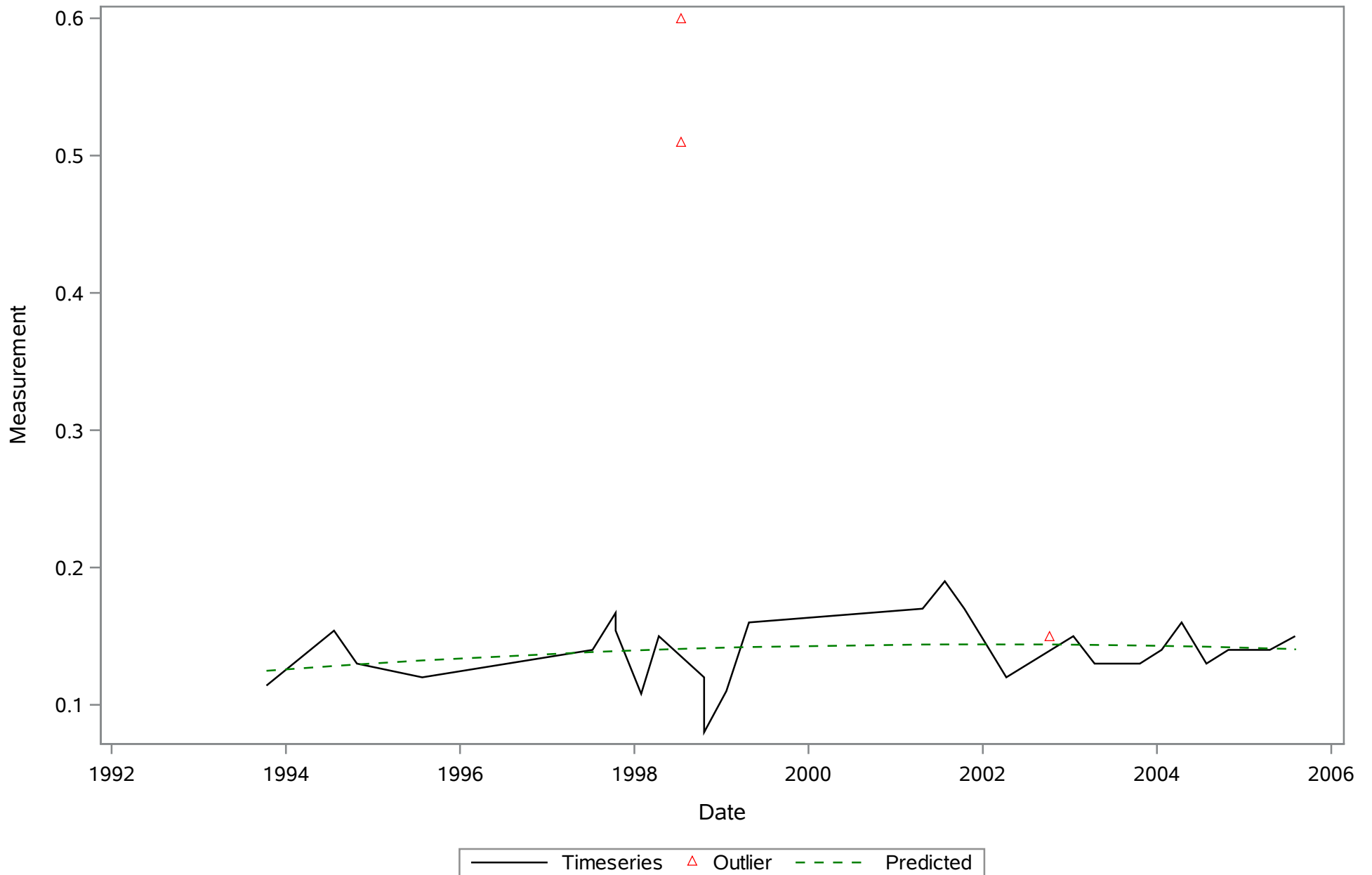
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Dissolved Oxygen (Total) mg/L



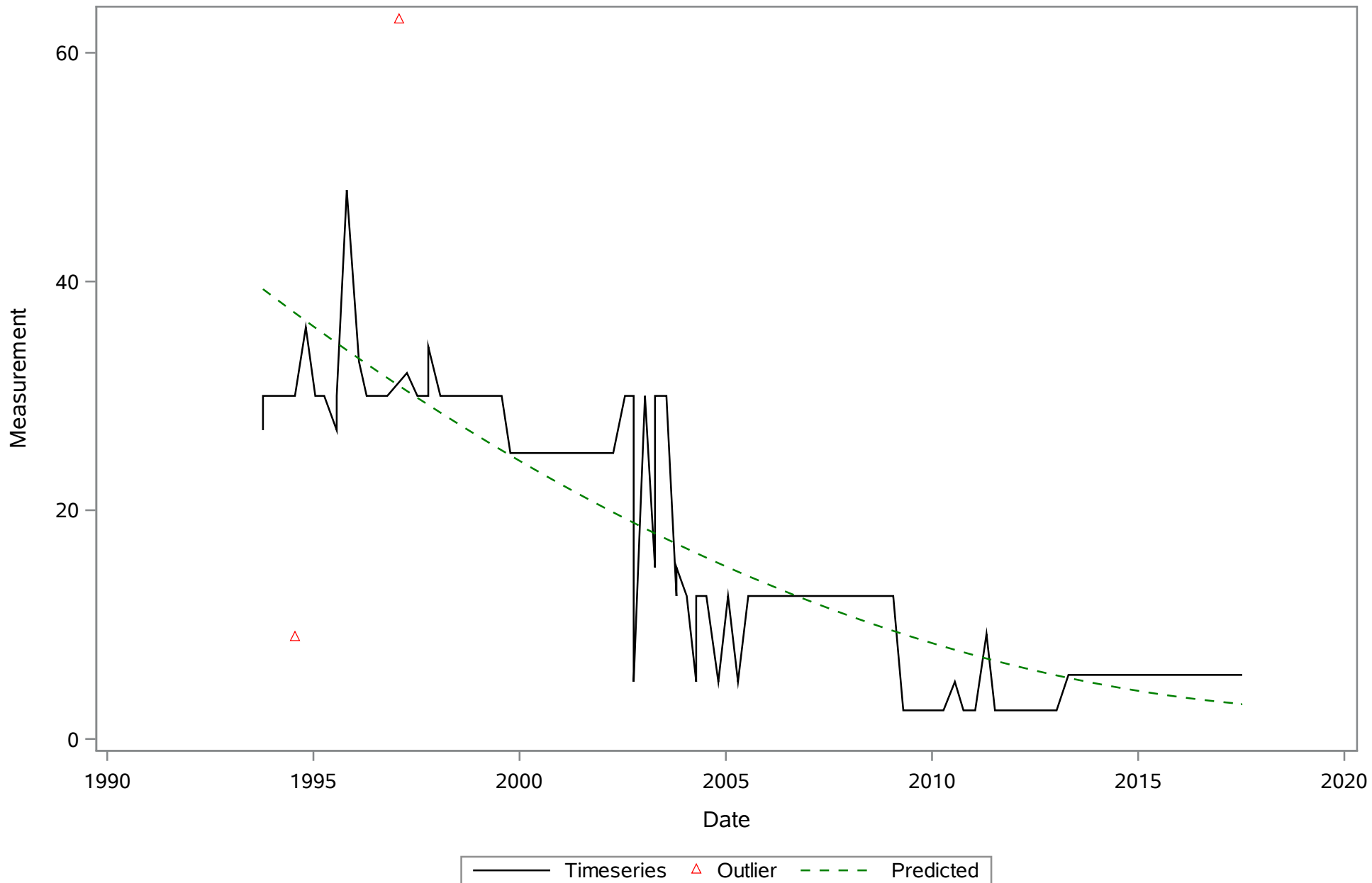
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Dissolved) mg/L



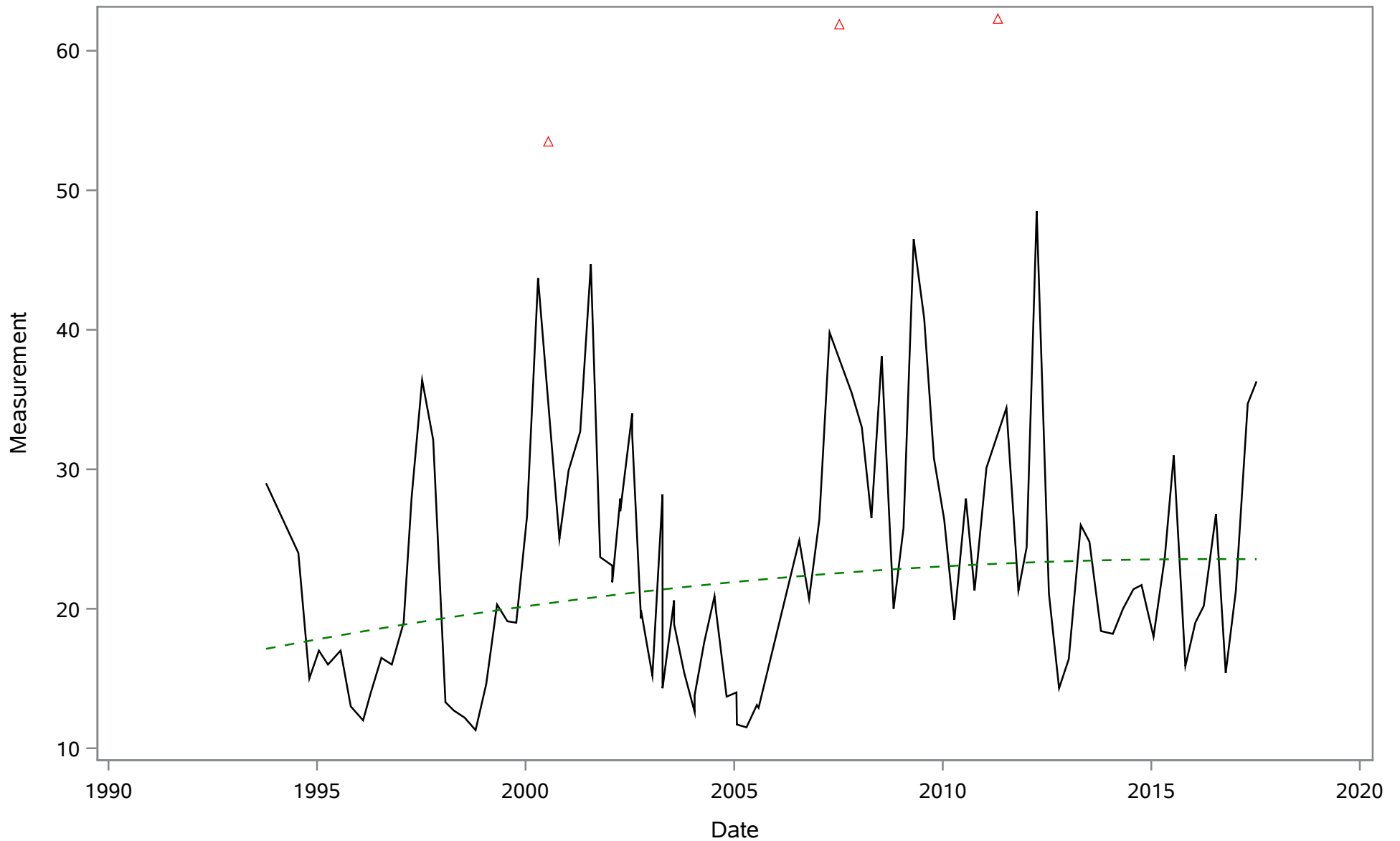
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Iron (Dissolved) ug/L

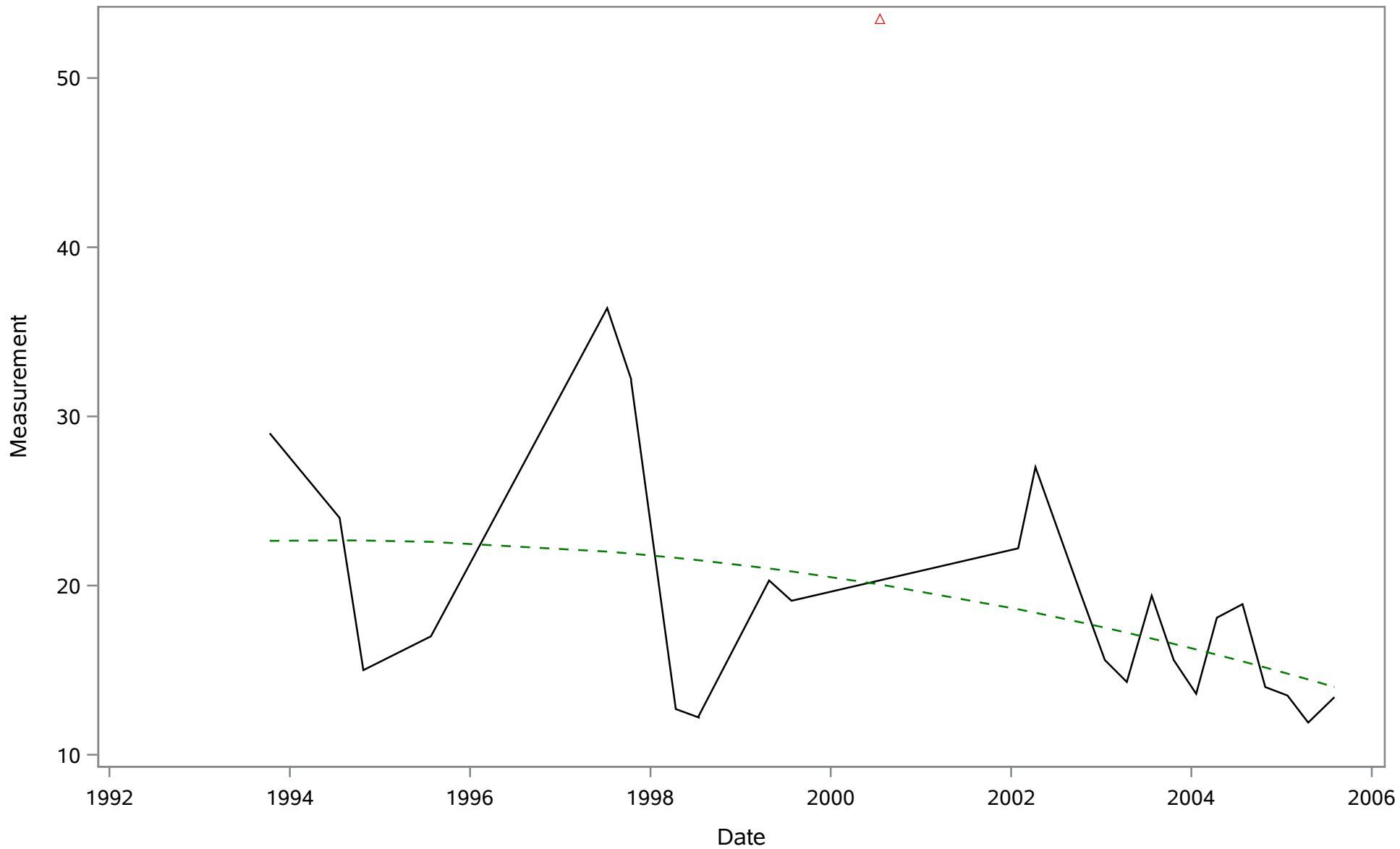


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Dissolved) mg/L



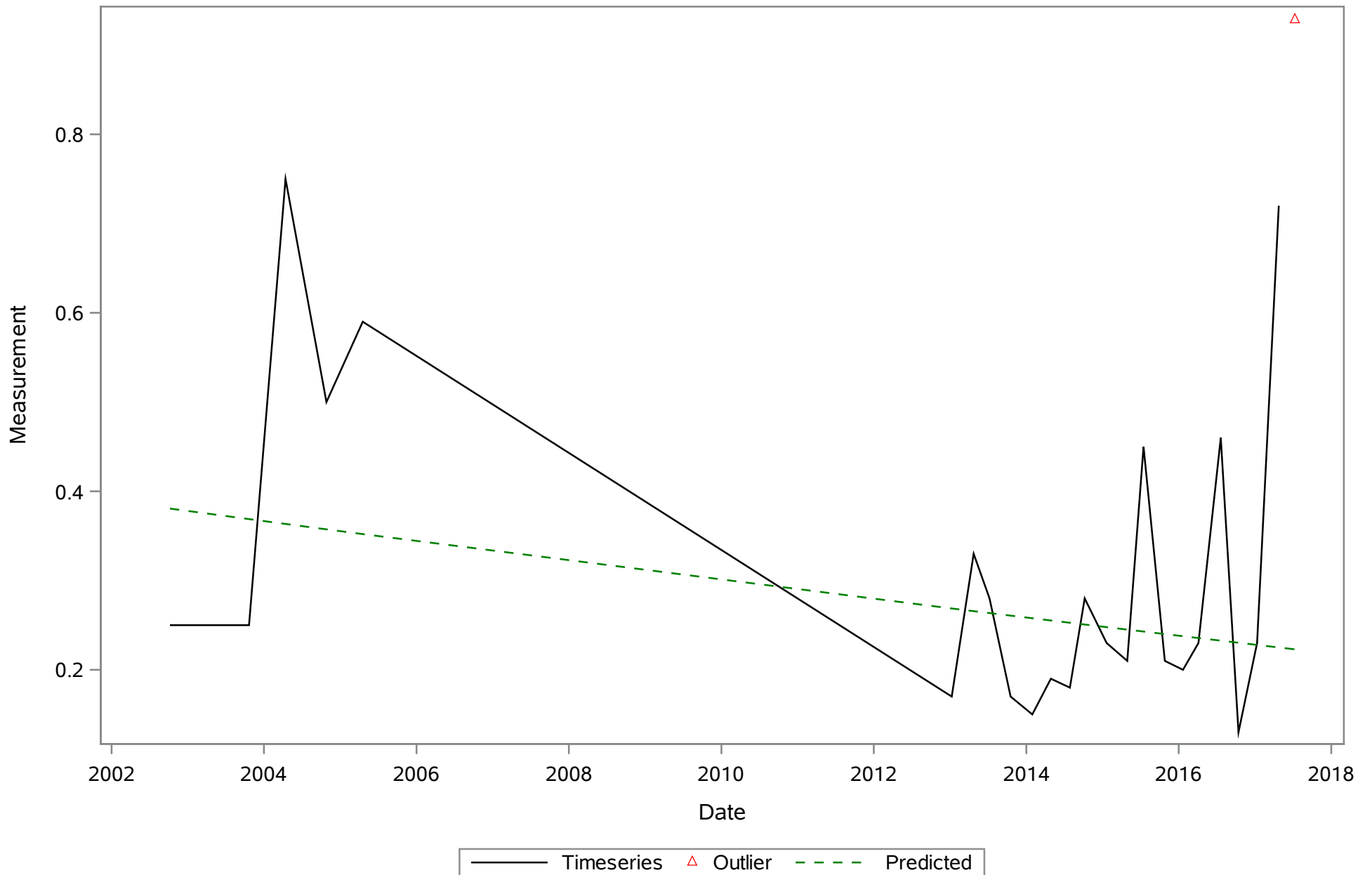
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Total) mg/L

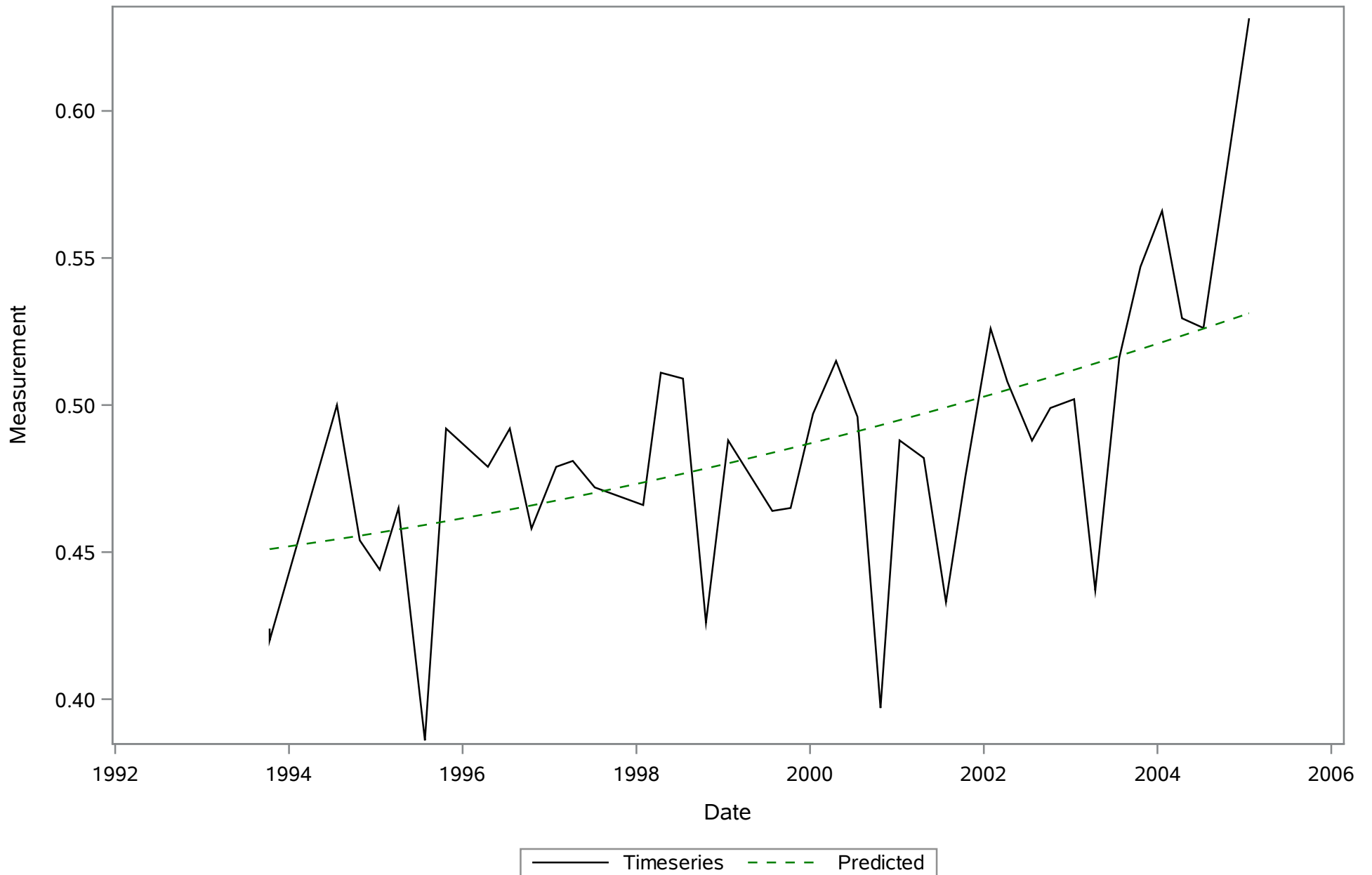


— Timeseries △ Outlier - - - Predicted

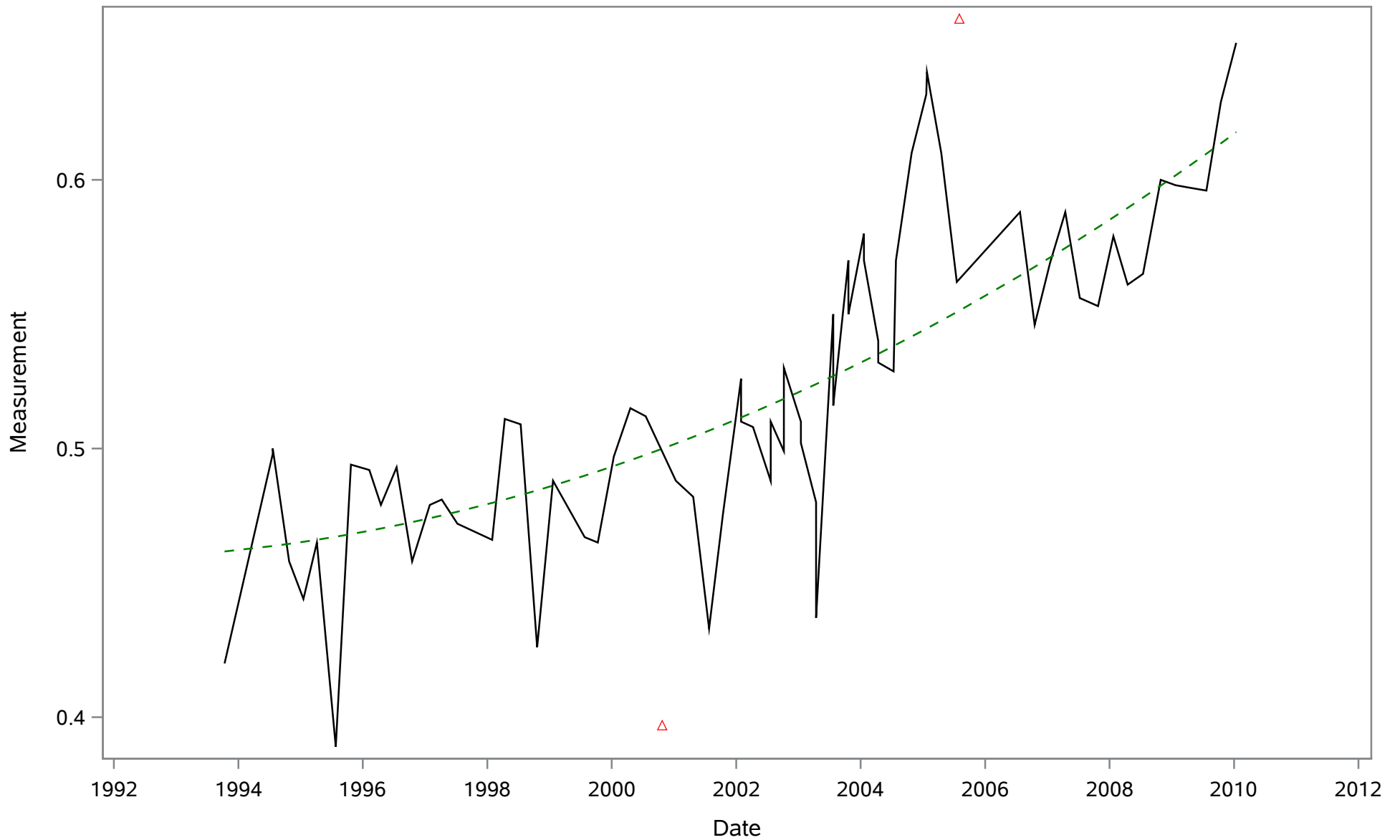
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Manganese (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate (N) (Dissolved) mg/L

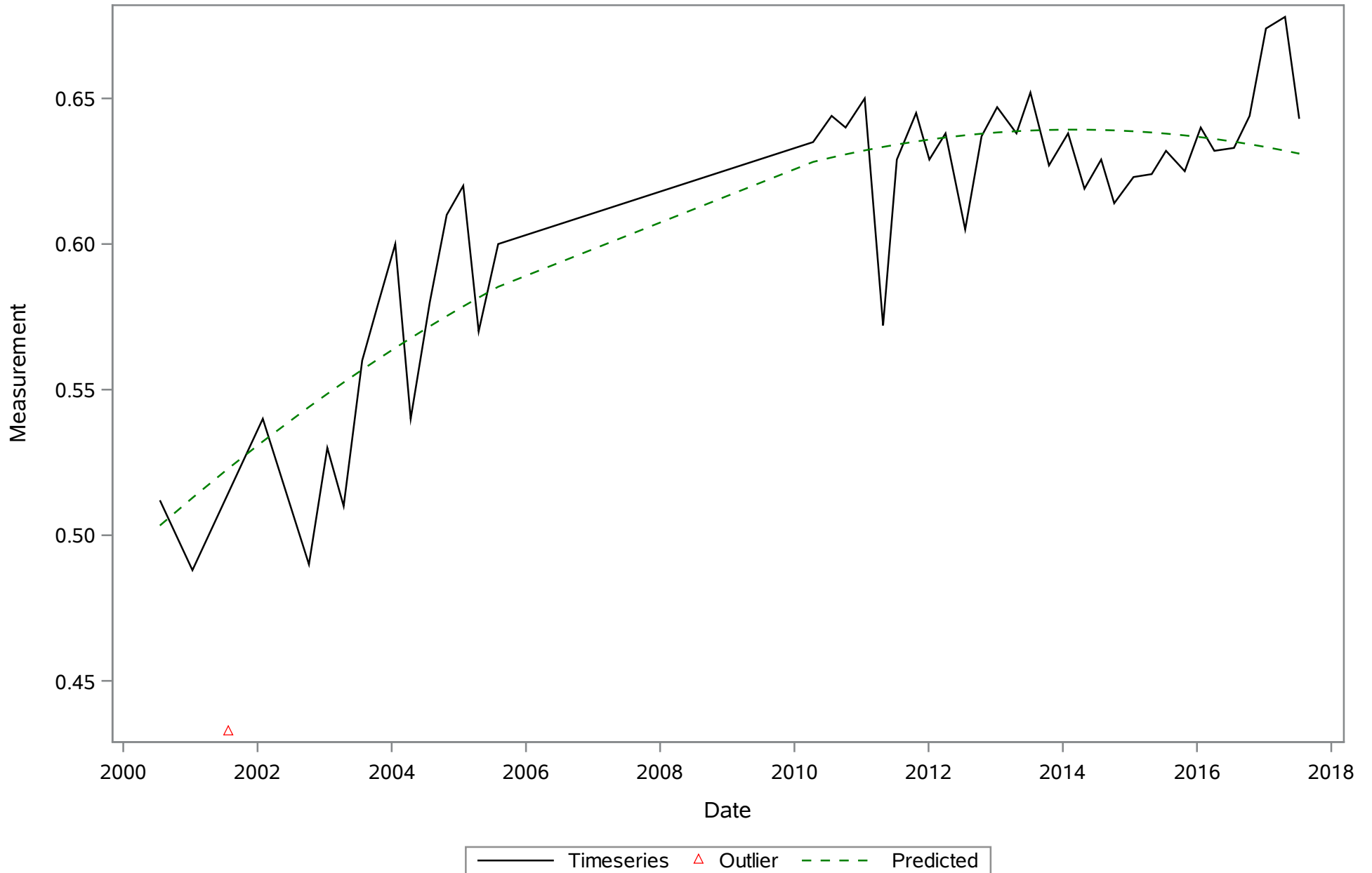


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

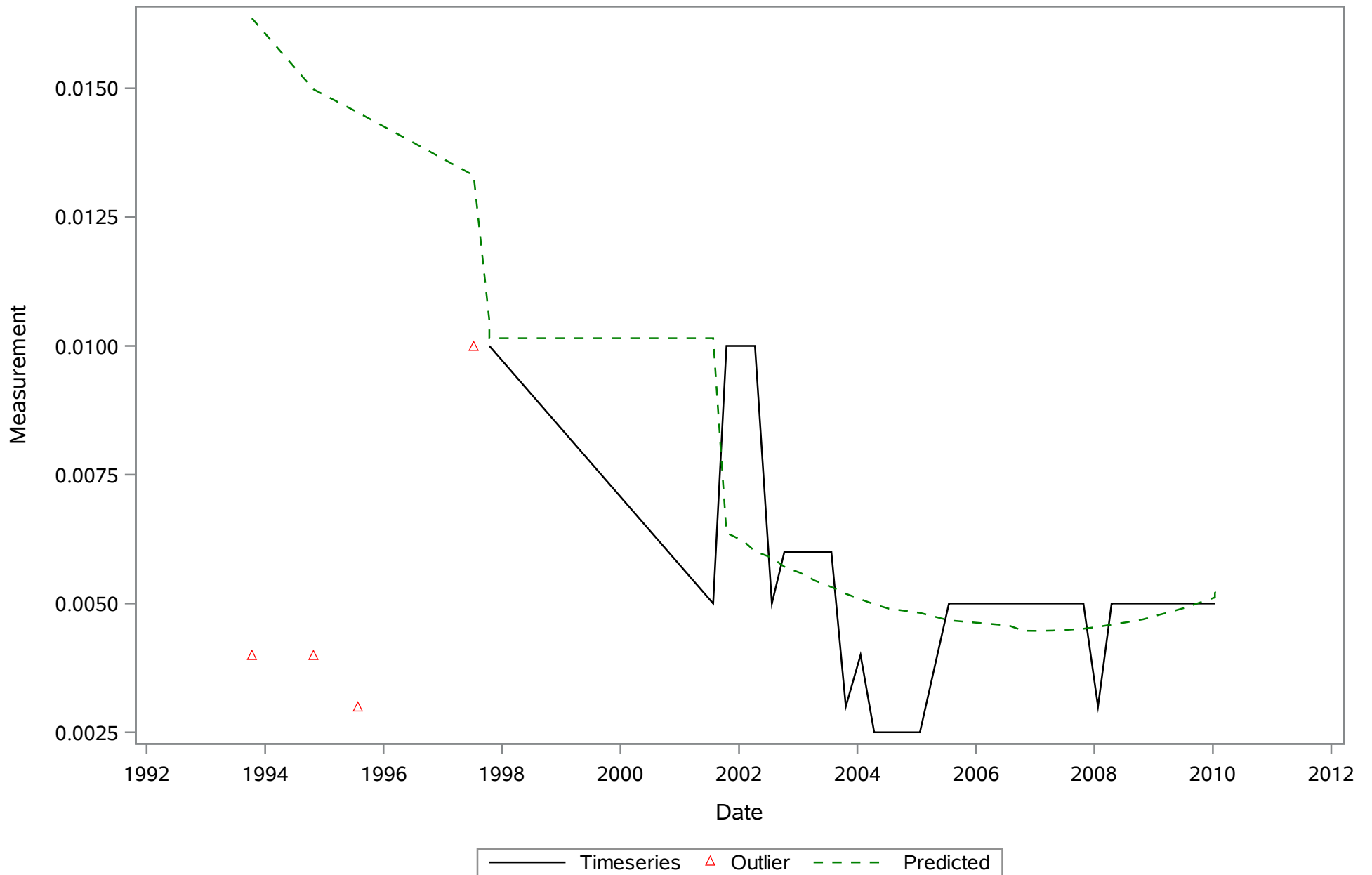


— Timeseries △ Outlier - - - Predicted

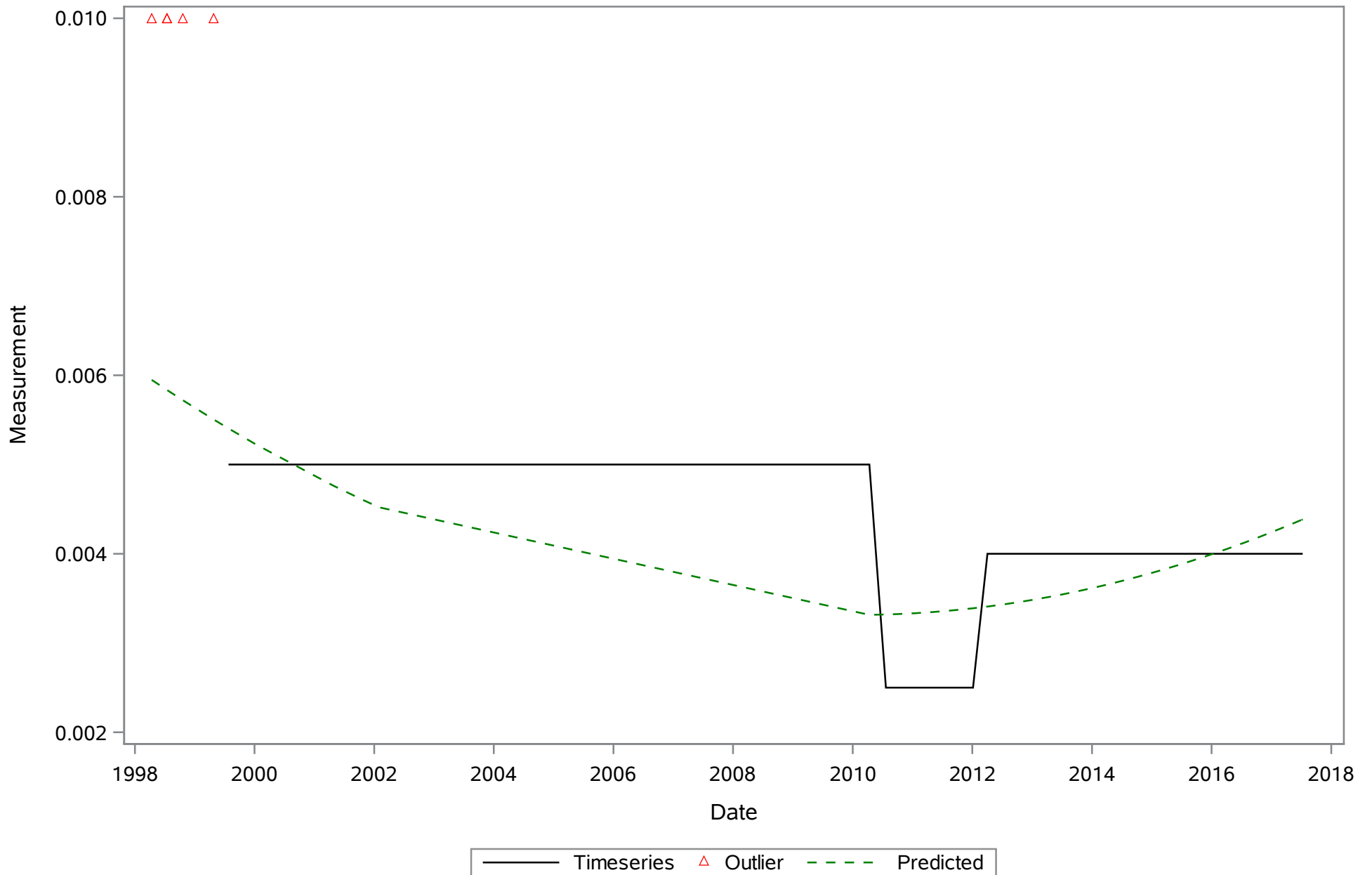
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Total) mg/L



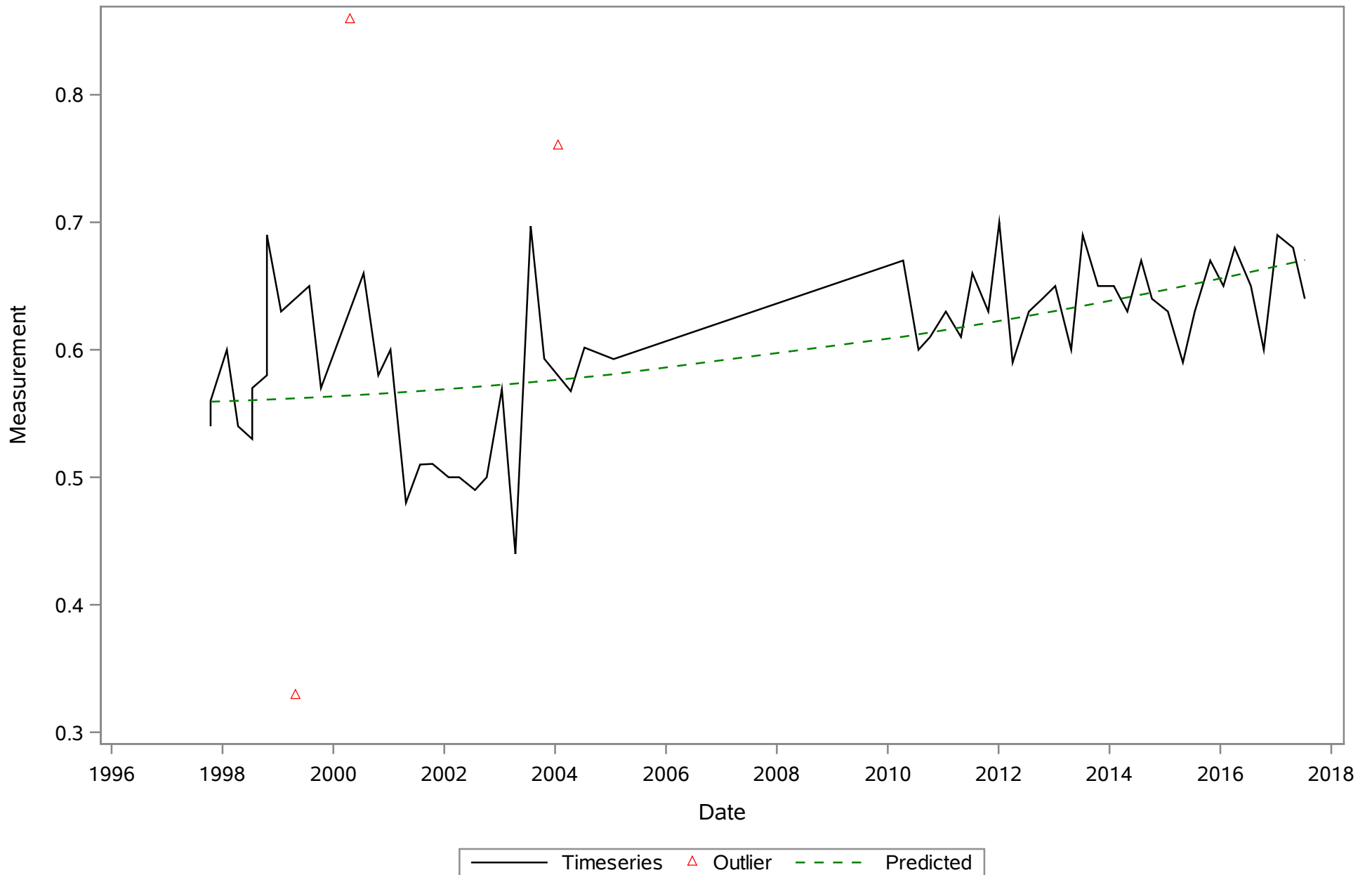
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Dissolved) mg/L



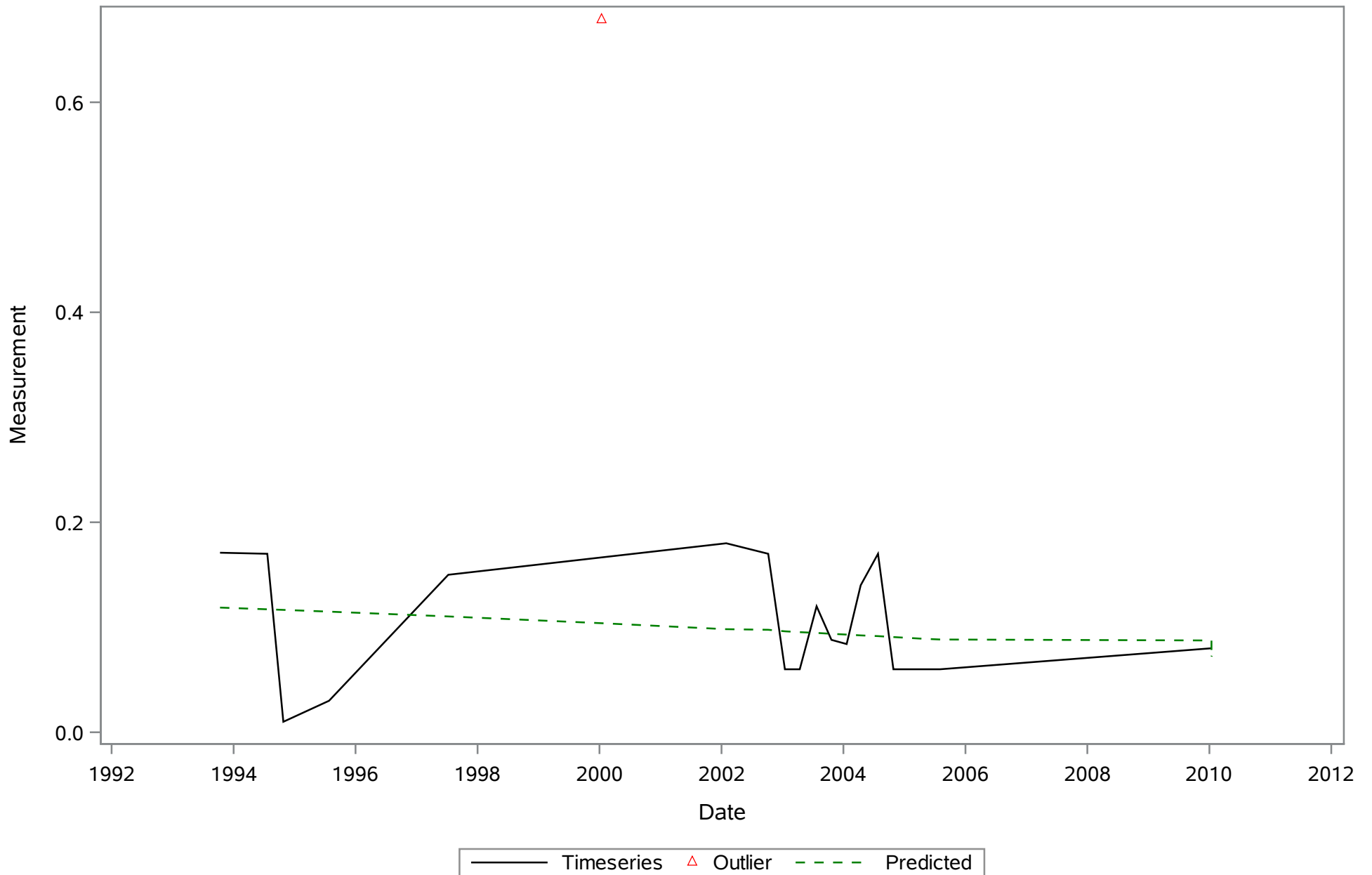
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Total) mg/L



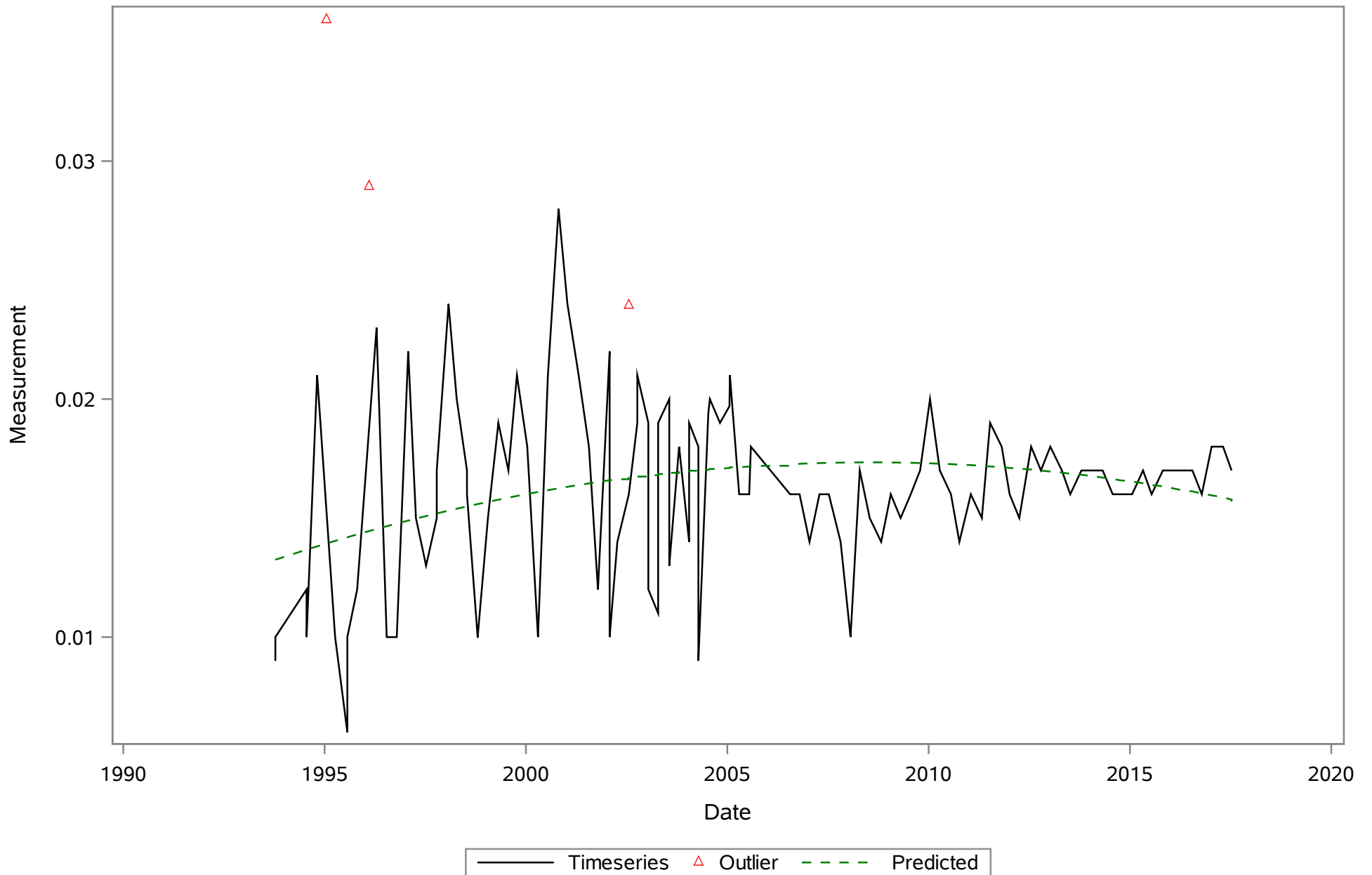
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total (Total) mg/L



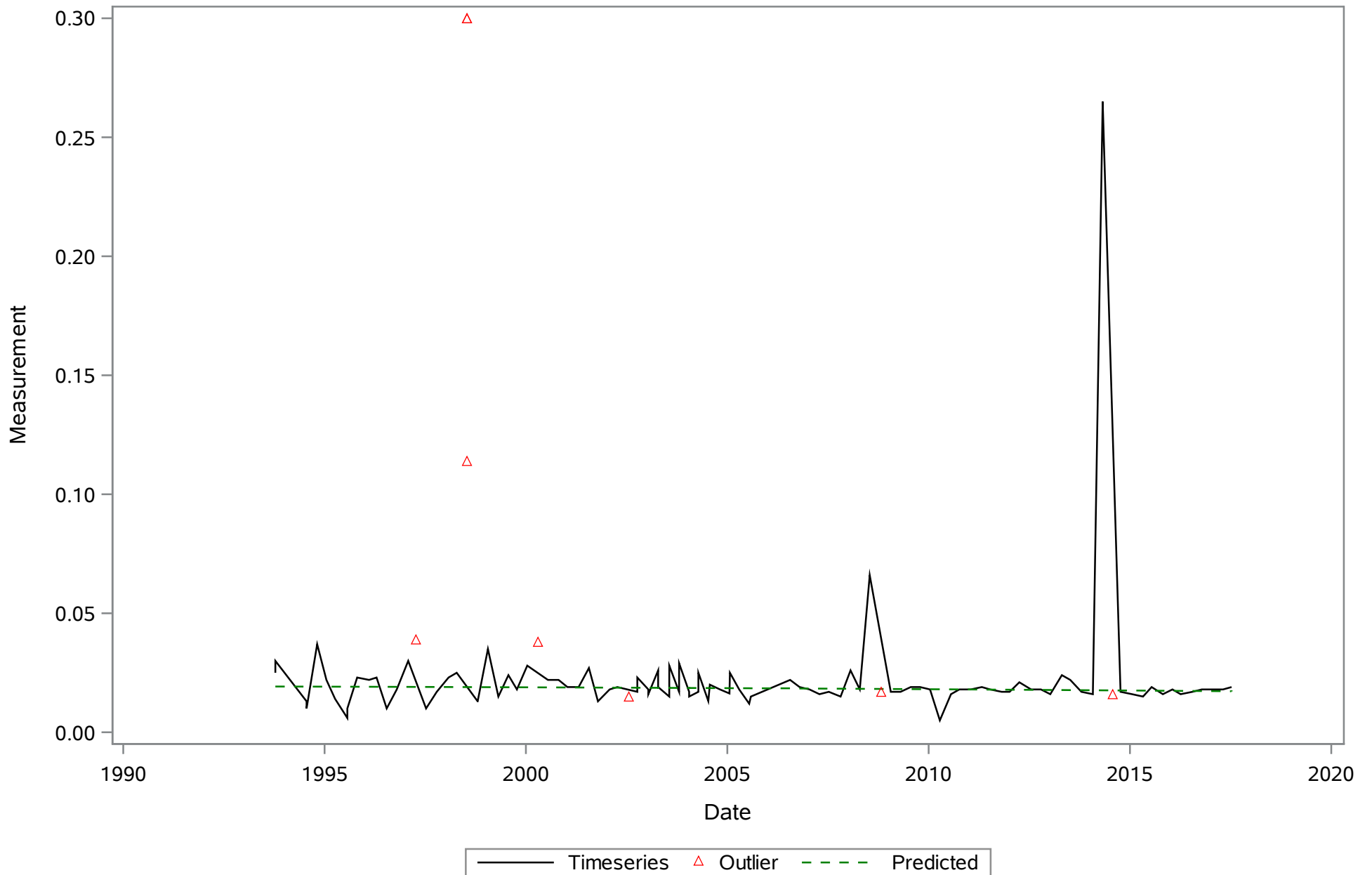
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total Kjeldahl (Total) mg/L



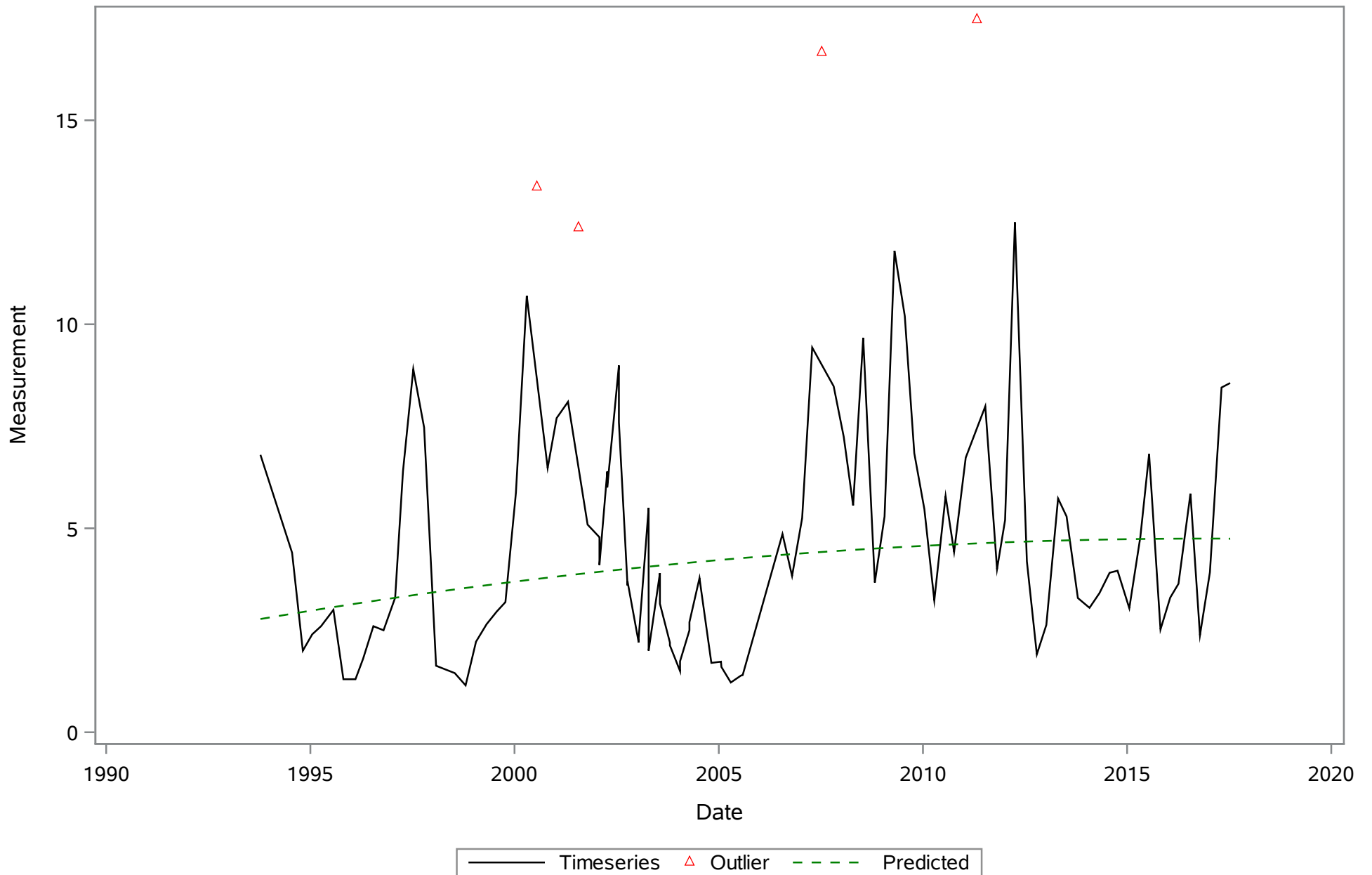
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Orthophosphate (P) (Dissolved) mg/L



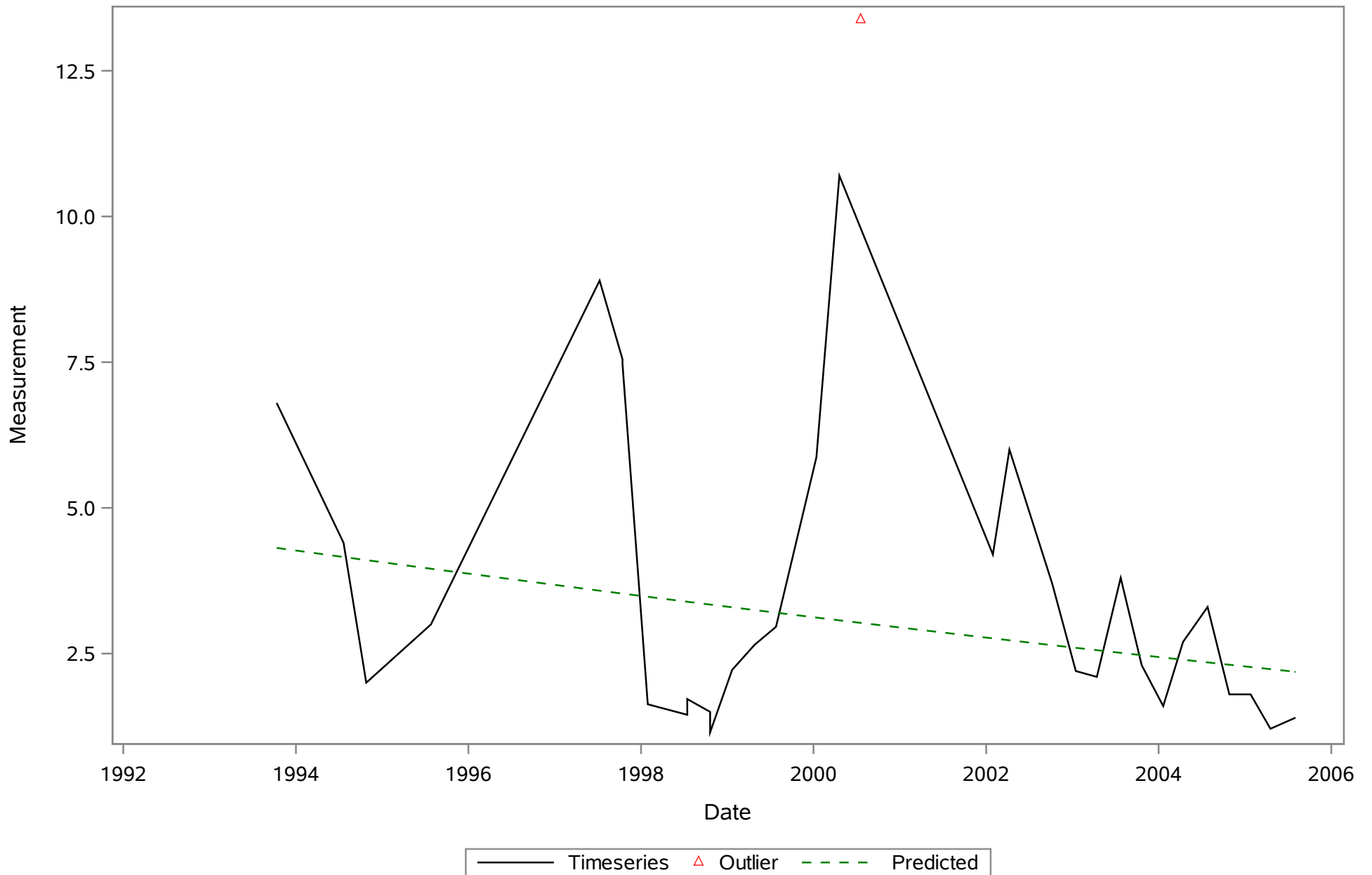
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Phosphorus- Total (Total) mg/L



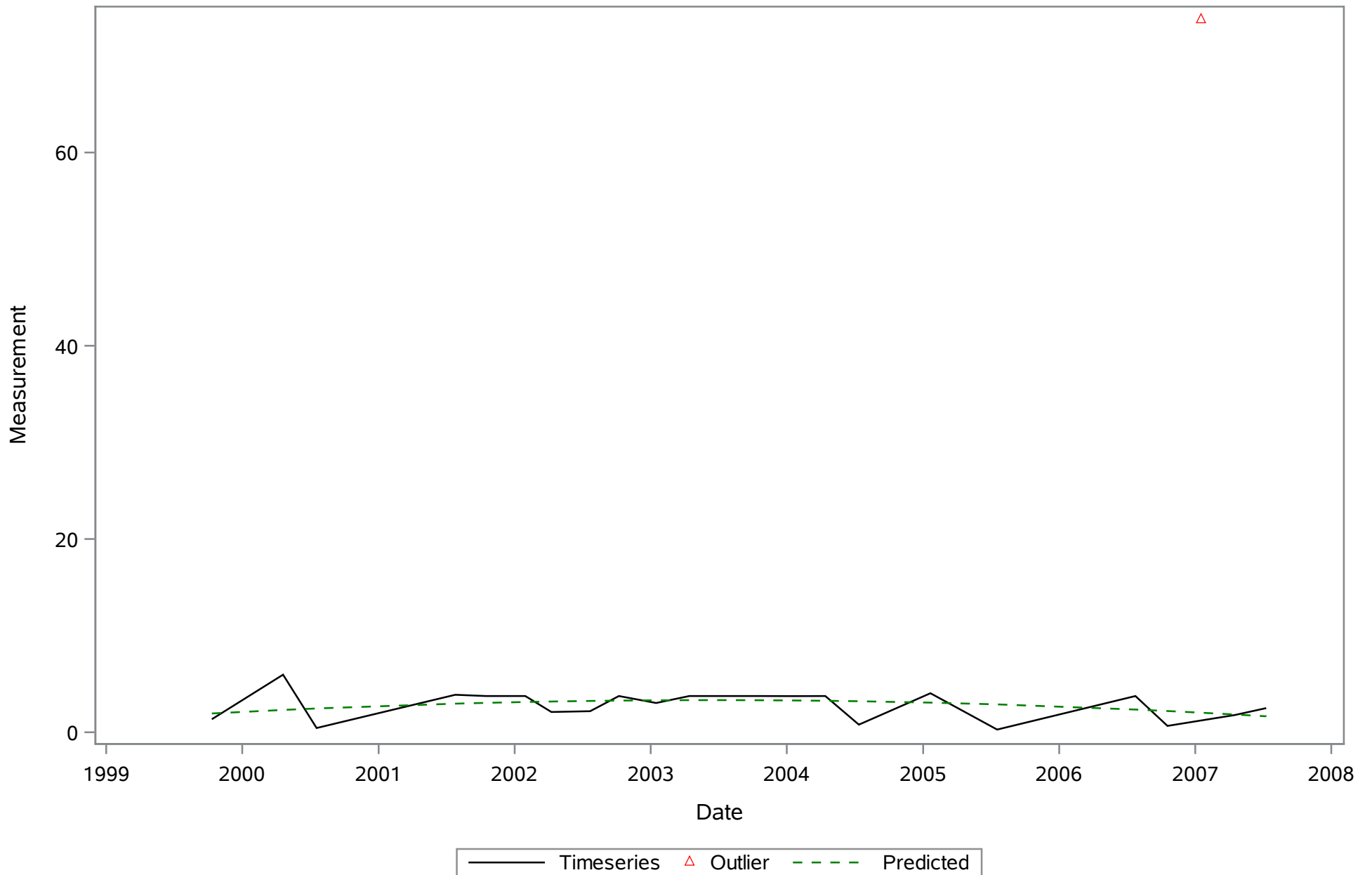
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Dissolved) mg/L



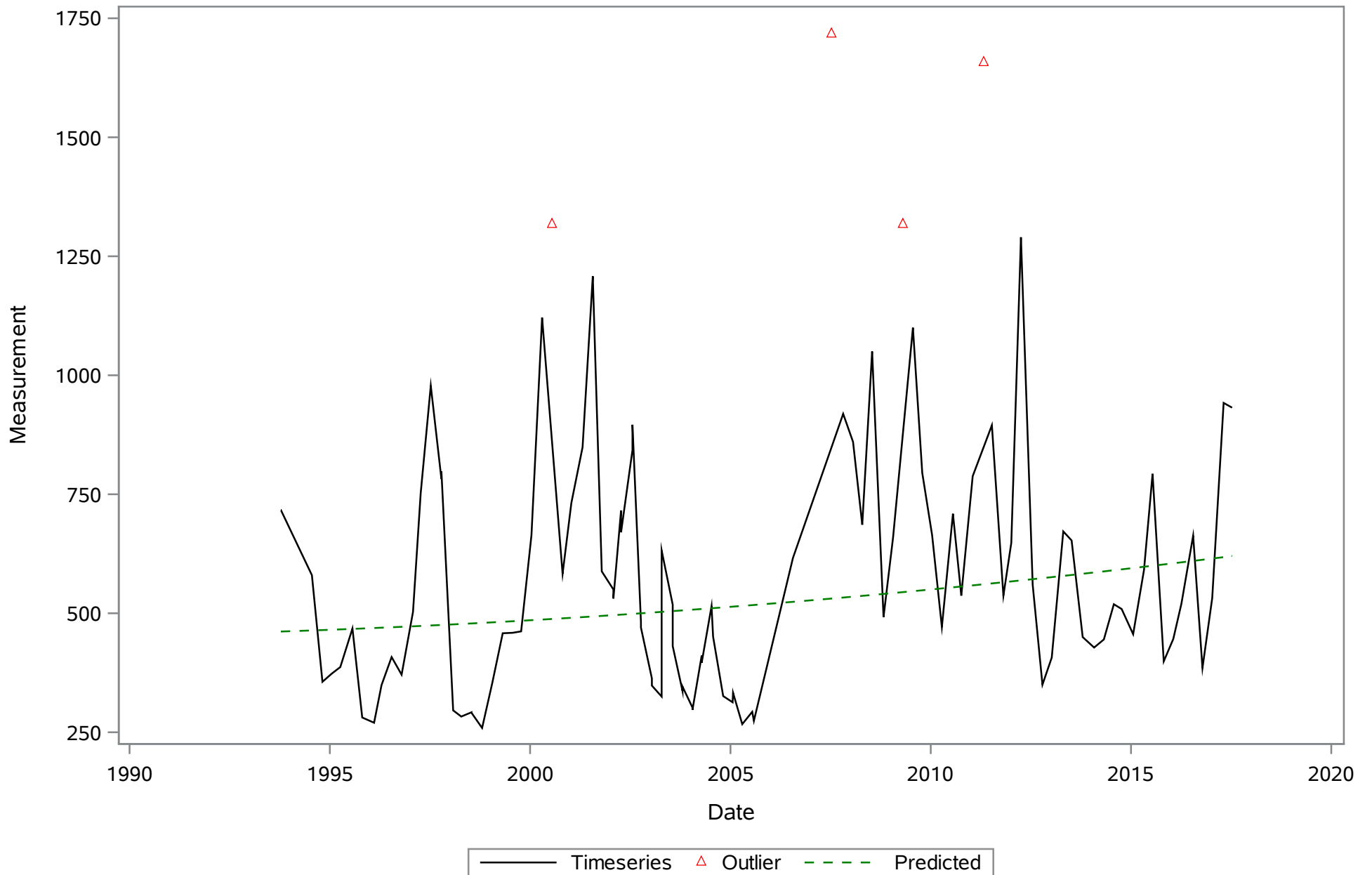
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Total) mg/L



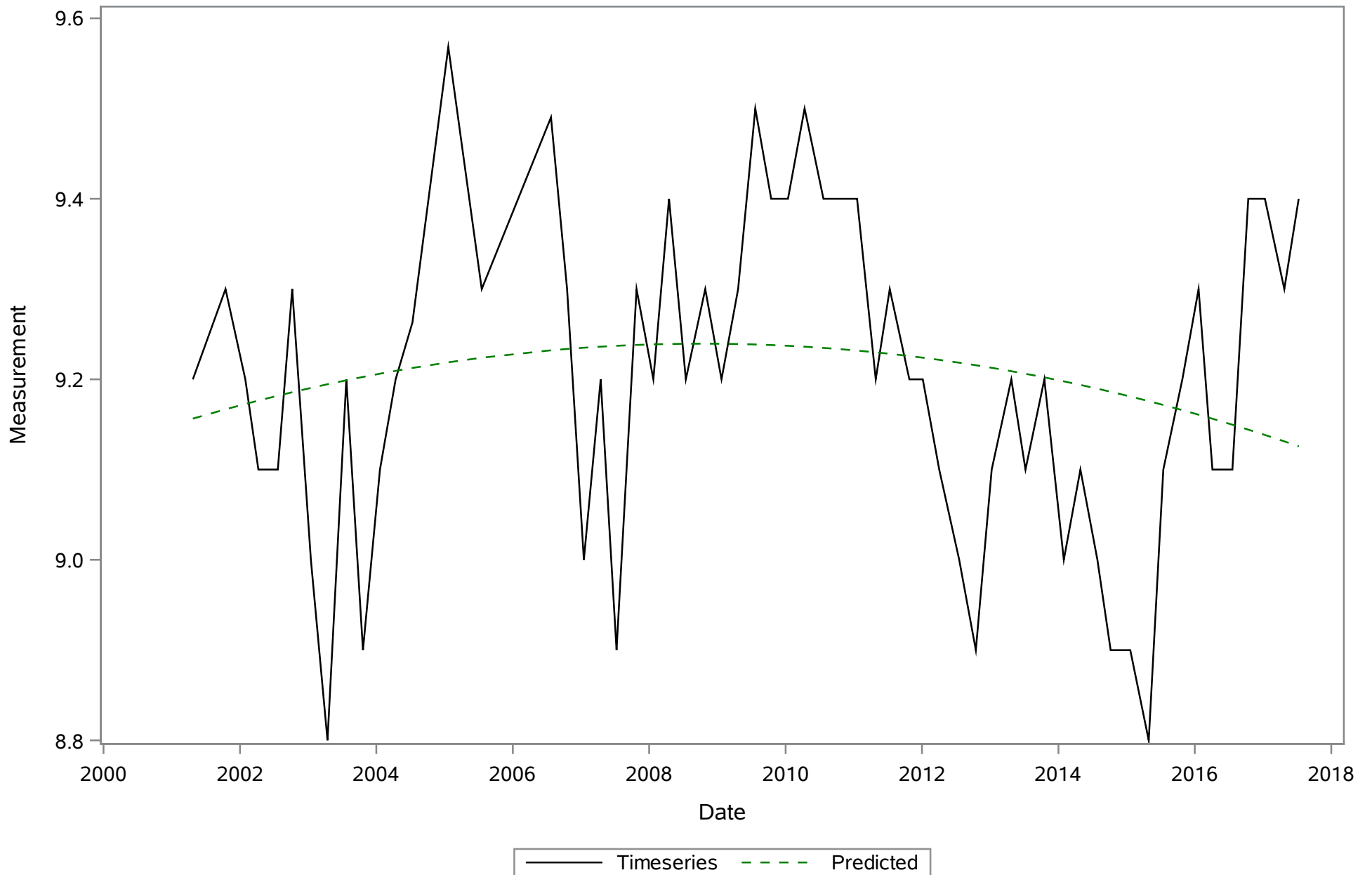
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Purge Volume (Total) Gallons



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Residues- Filterable (TDS) (Dissolved) mg/L

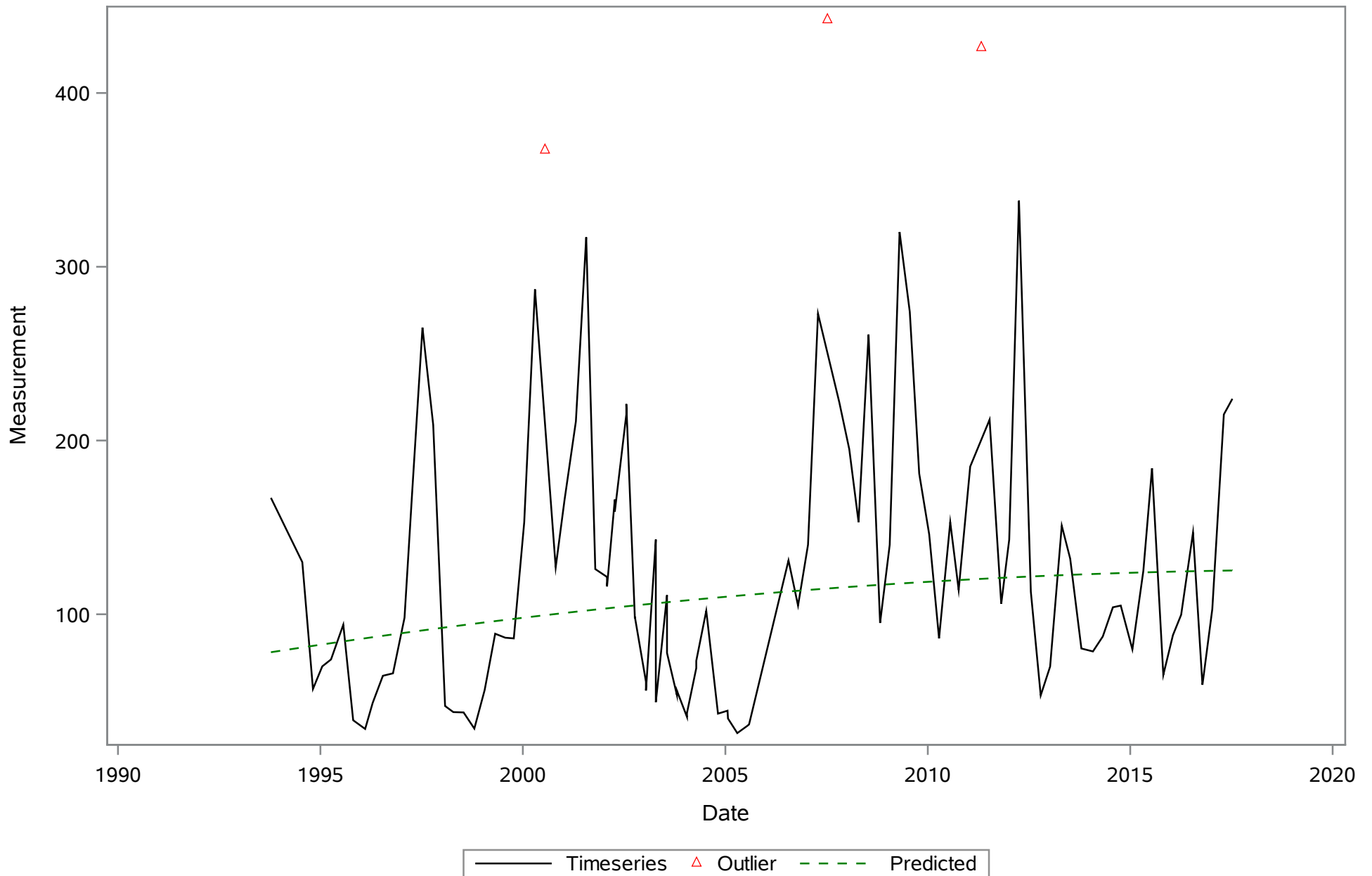


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Silica- Dissolved (Dissolved) mg/L

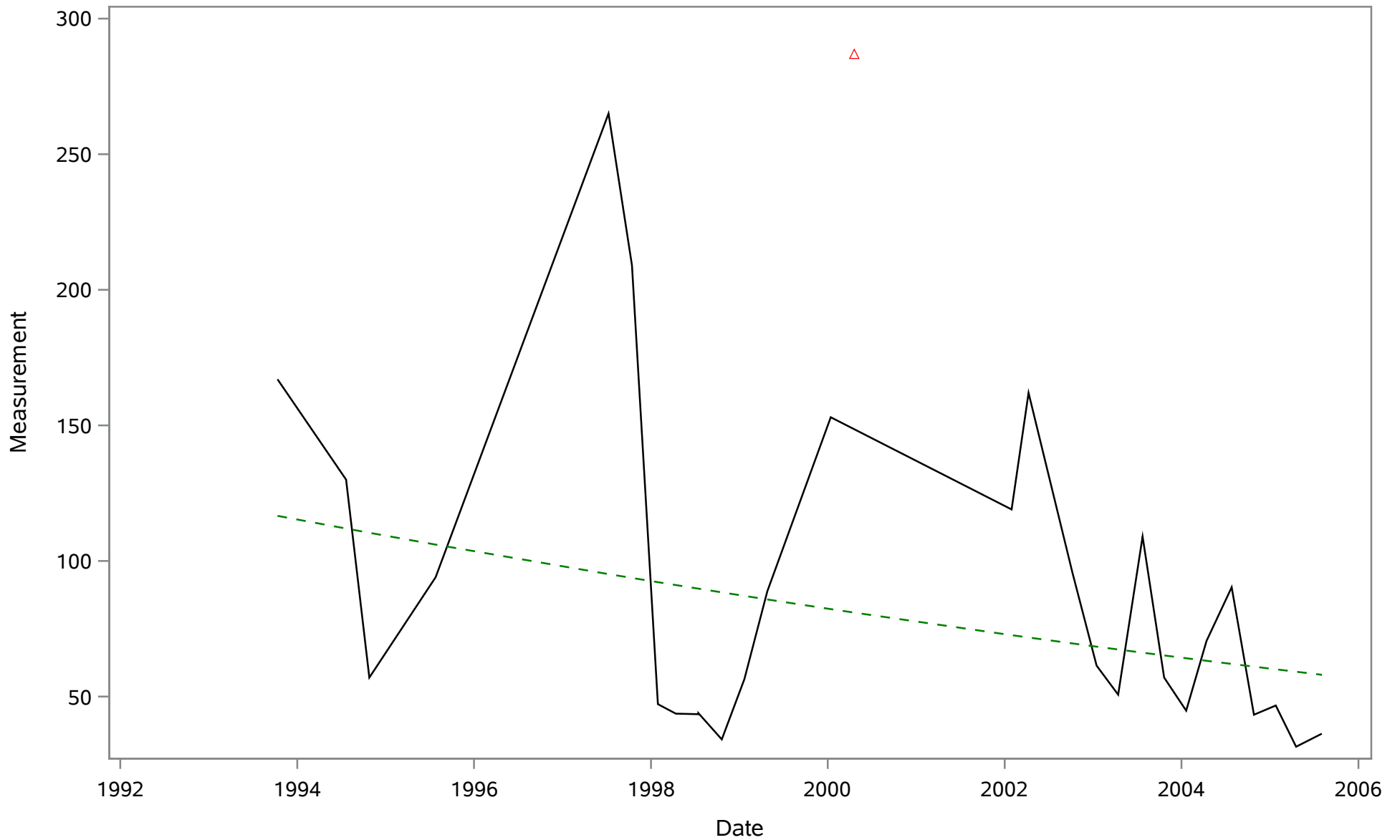


Chassahowitzka River - Fixed Station

Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Dissolved) mg/L

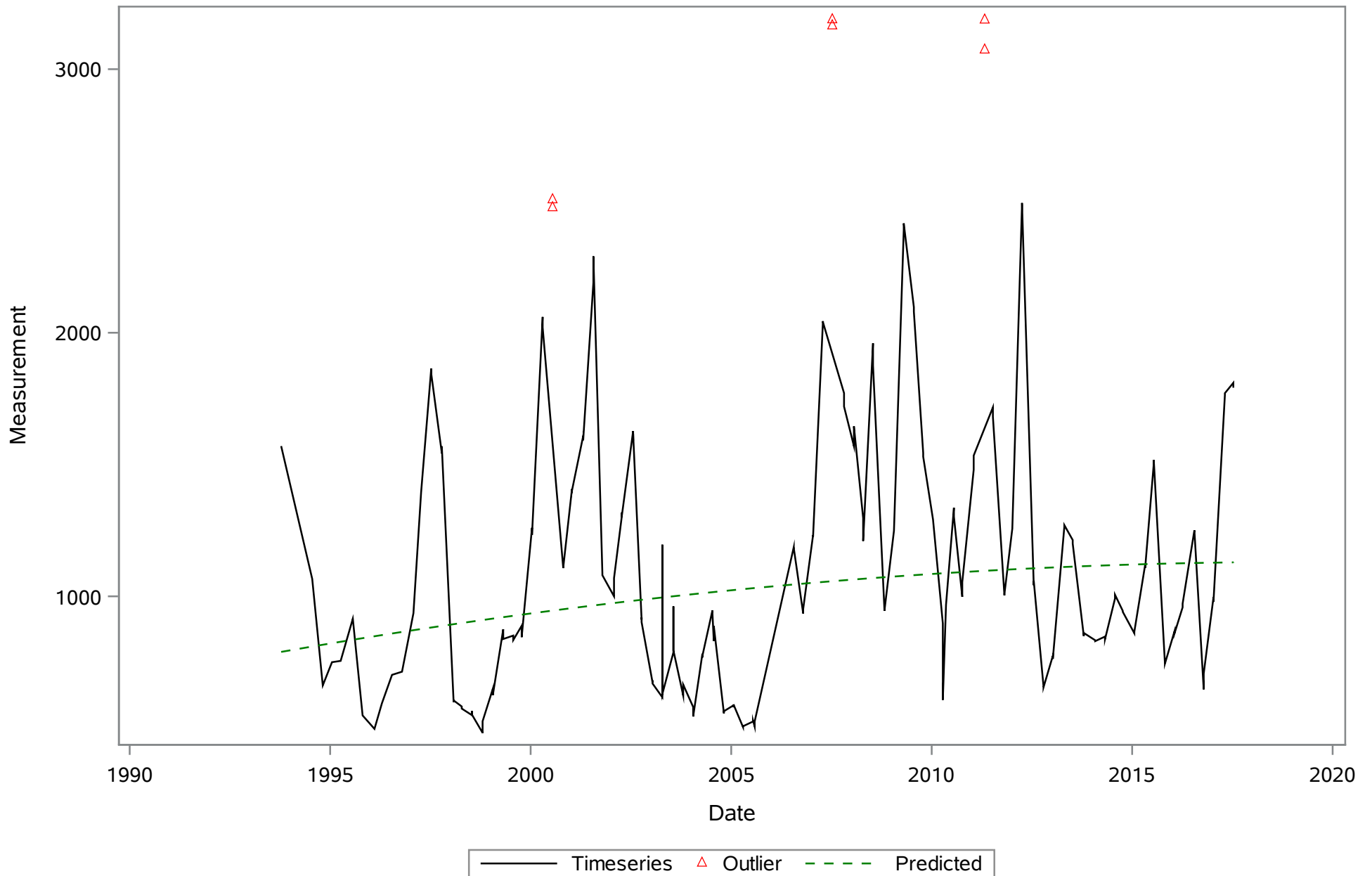


Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Total) mg/L

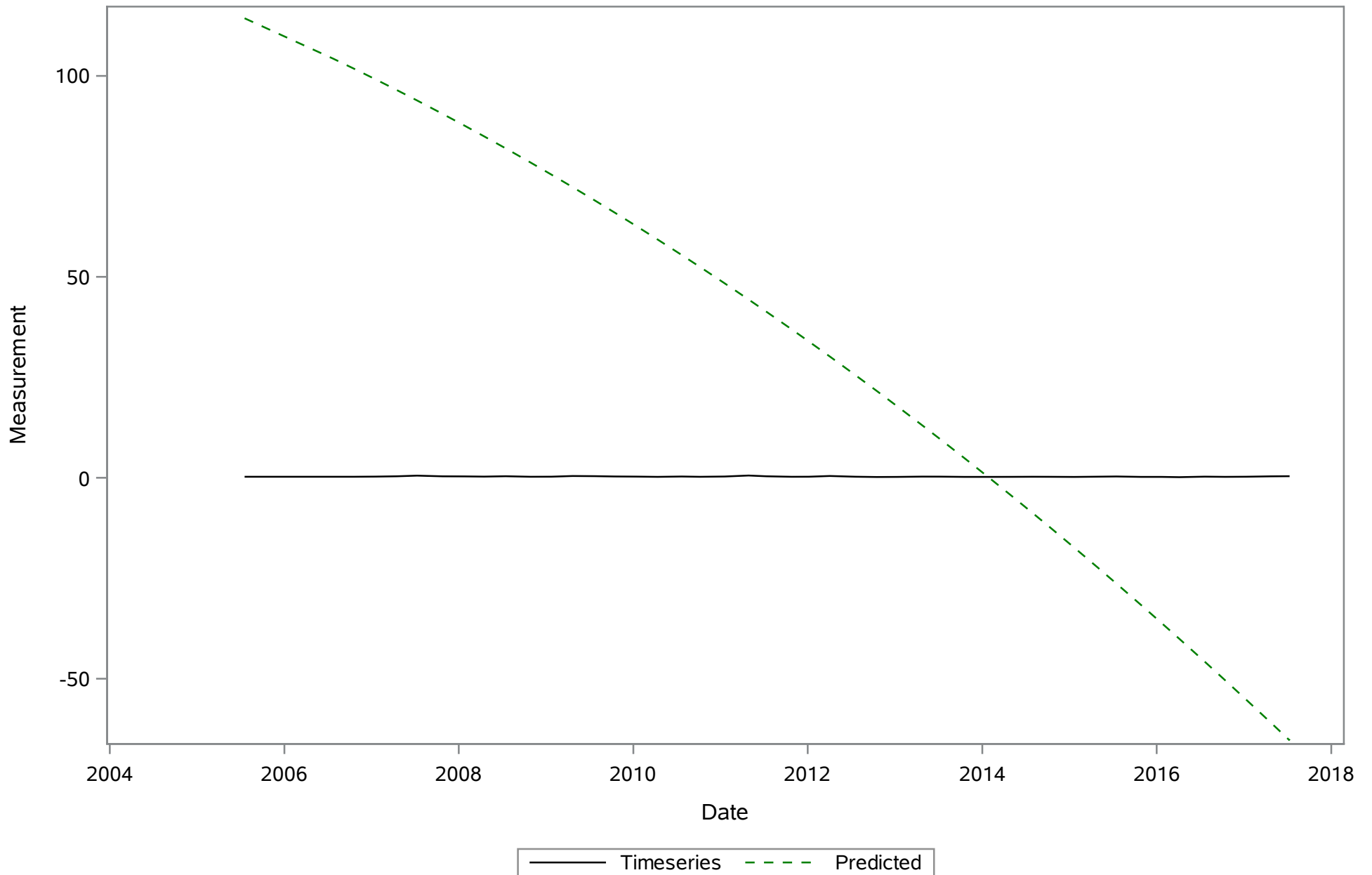


— Timeseries △ Outlier - - - Predicted

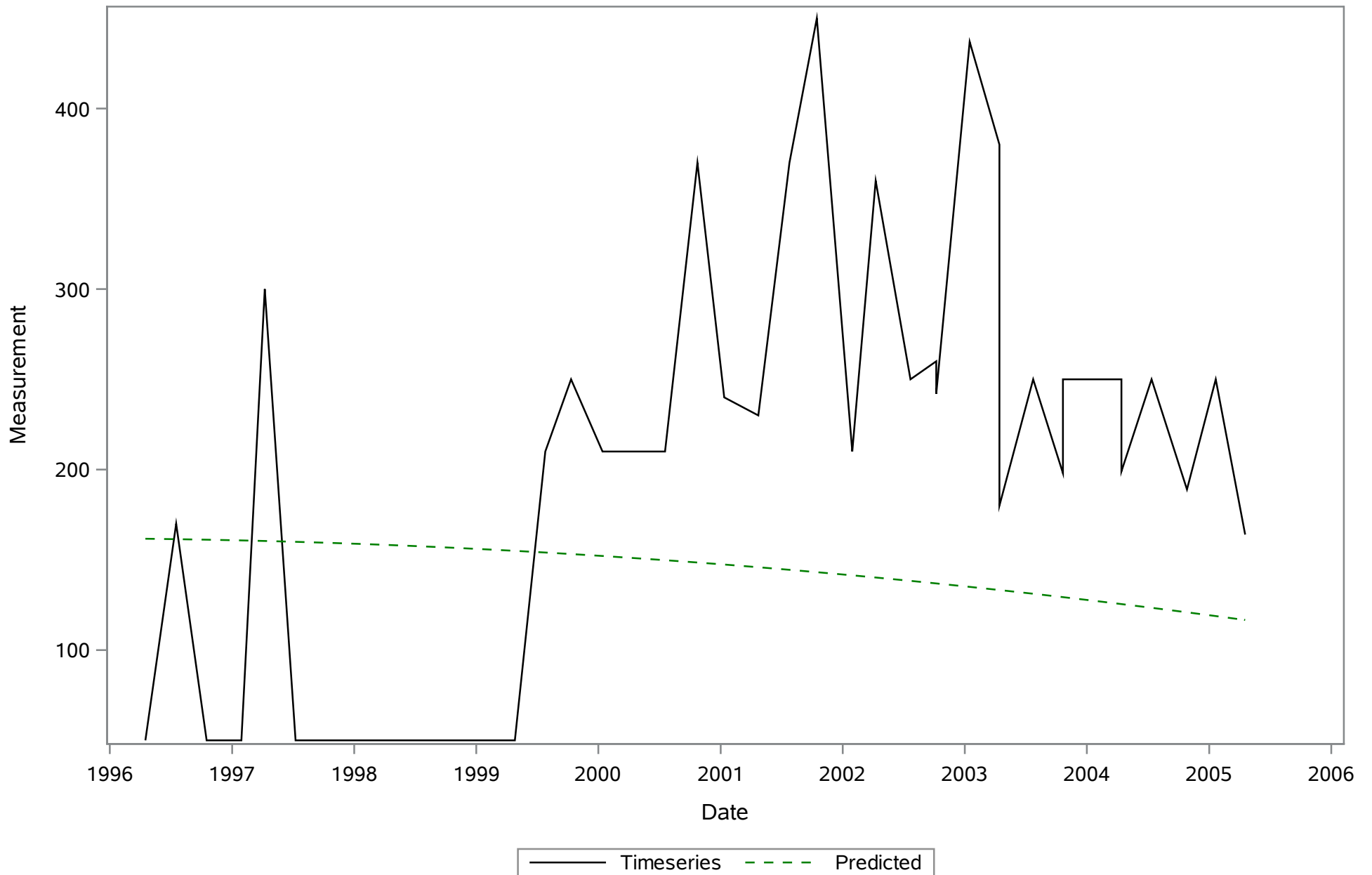
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Specific Conductance (Total) uS/cm



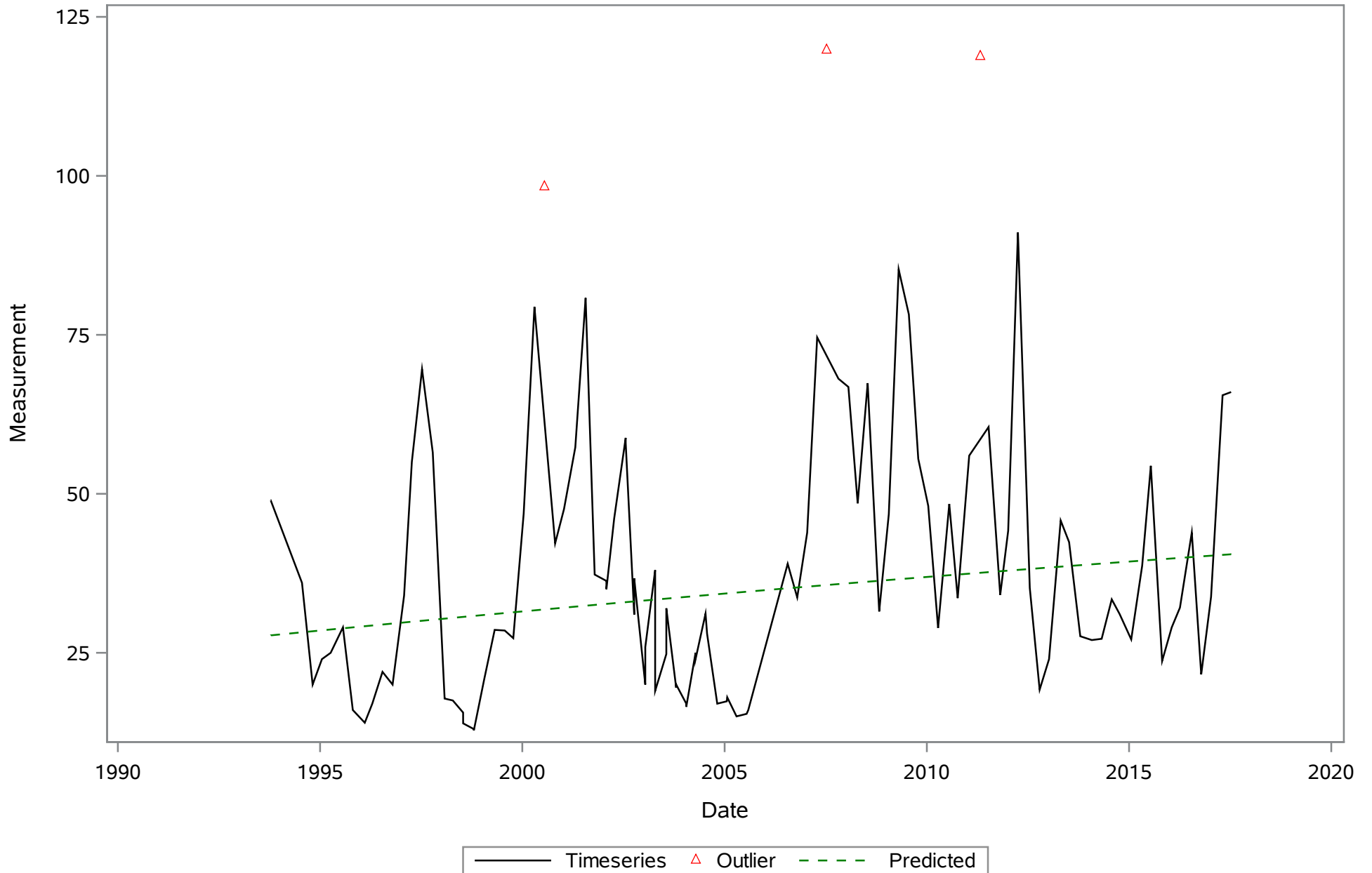
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) mg/L



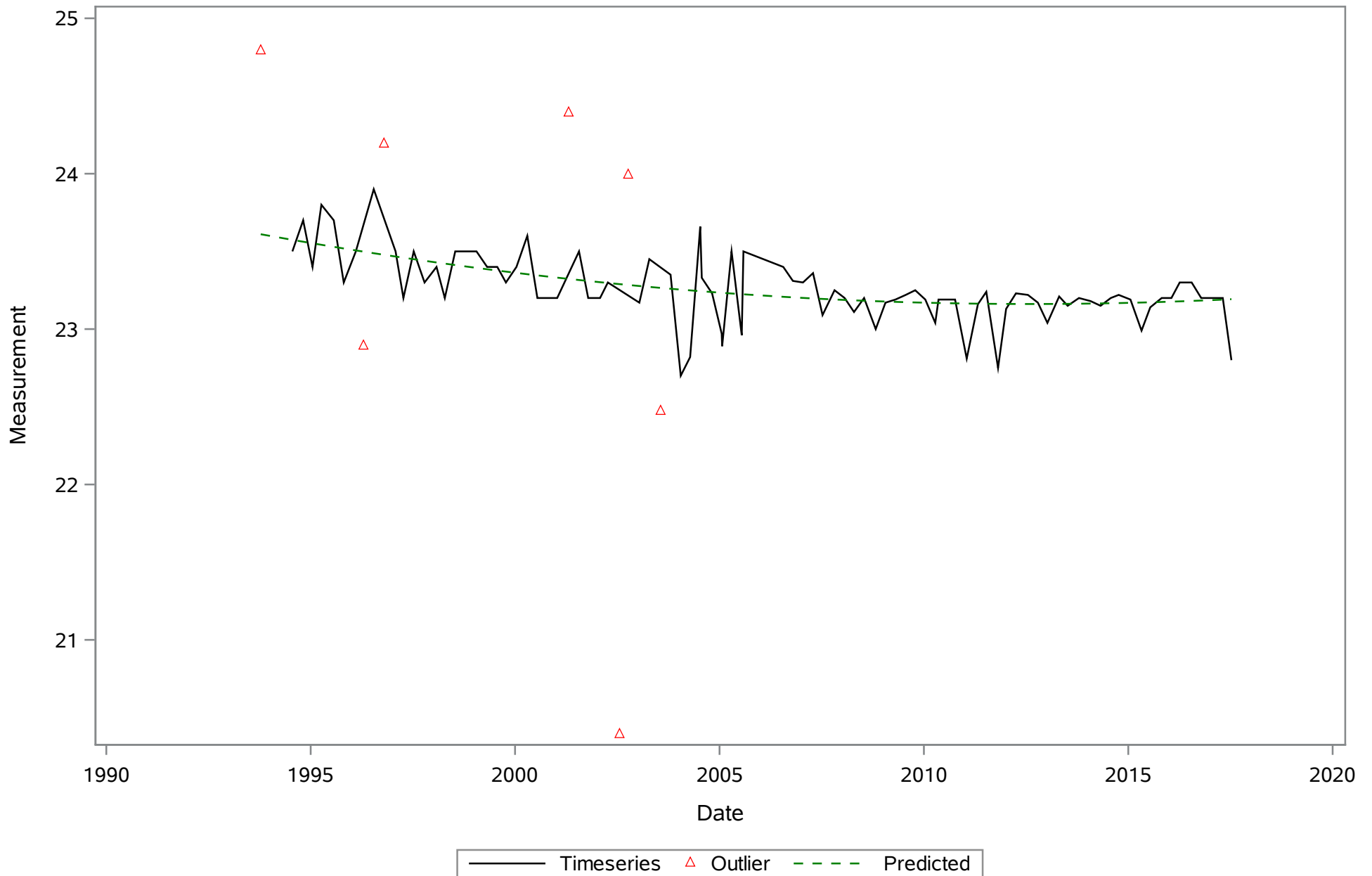
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) ug/L



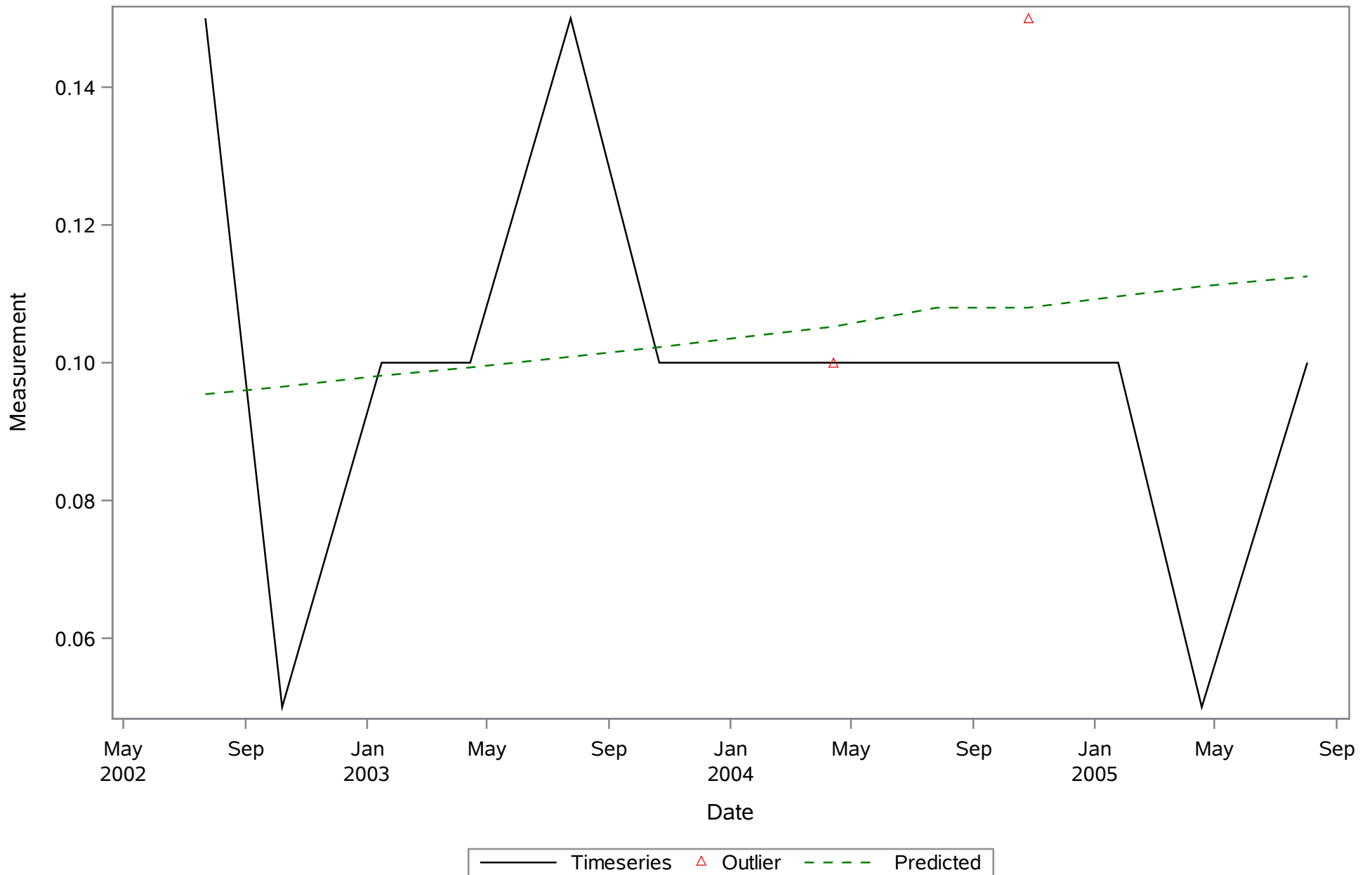
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sulfate (Dissolved) mg/L



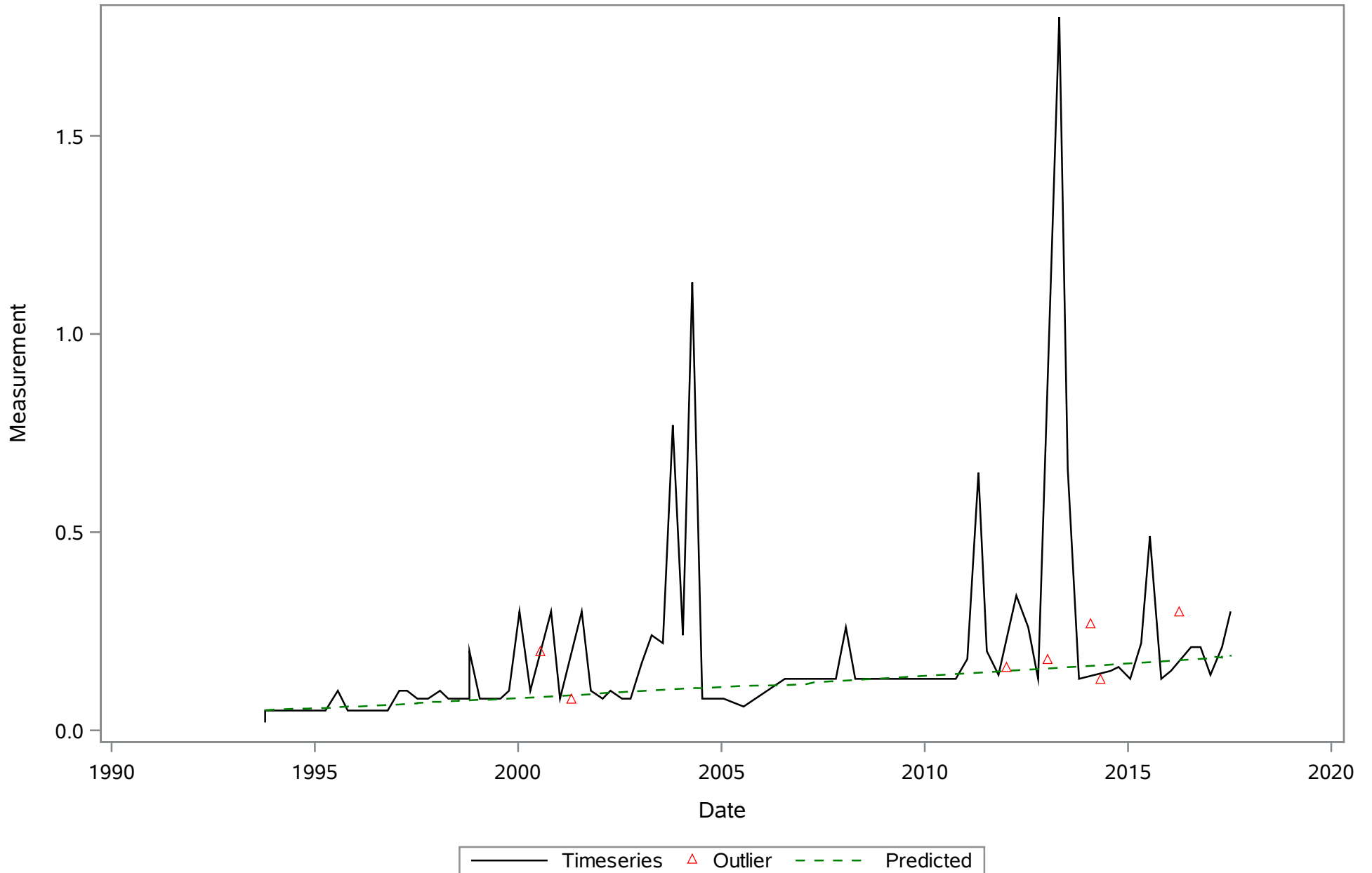
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Temperature (Total) Deg. C



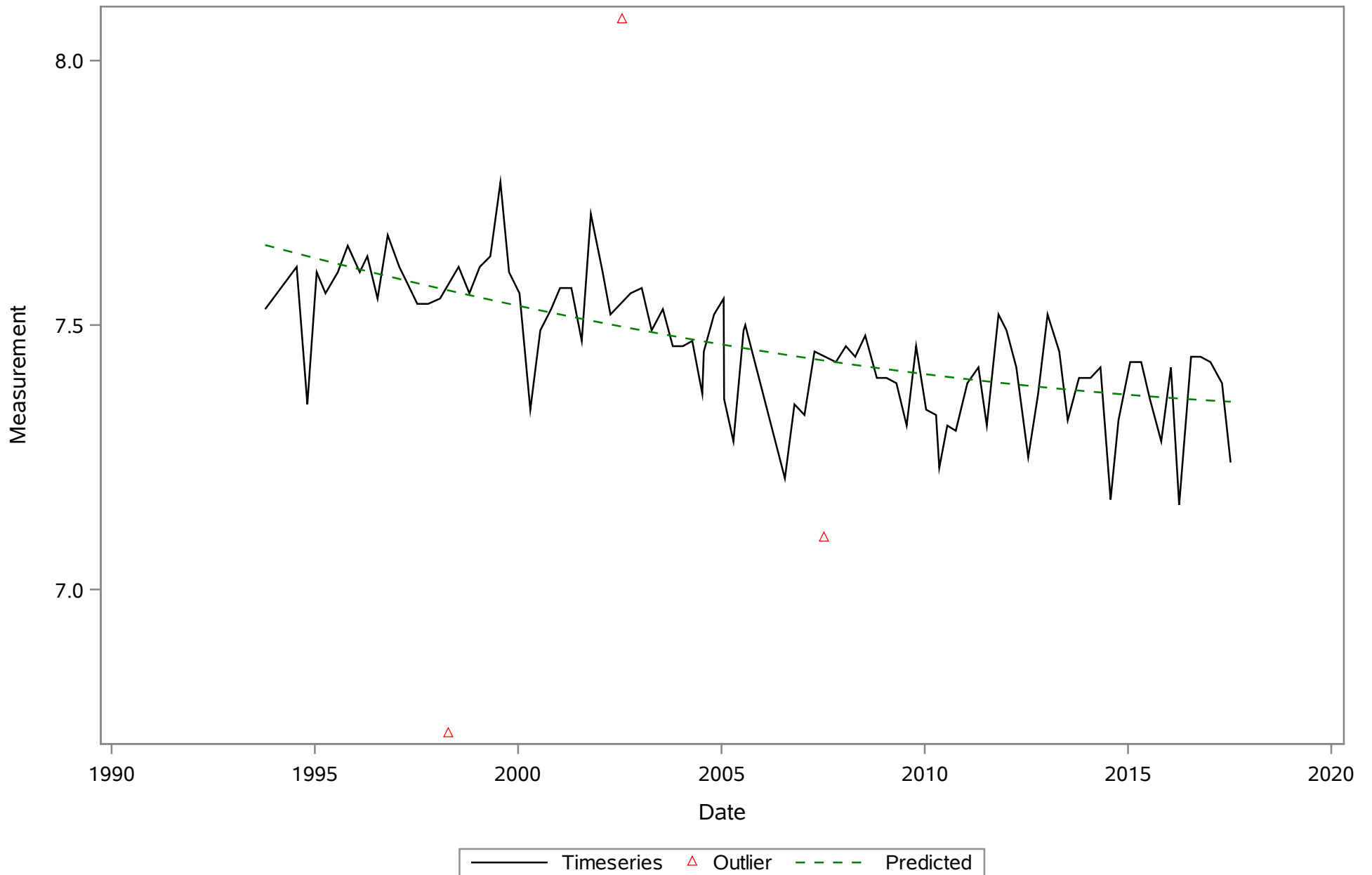
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) FTU



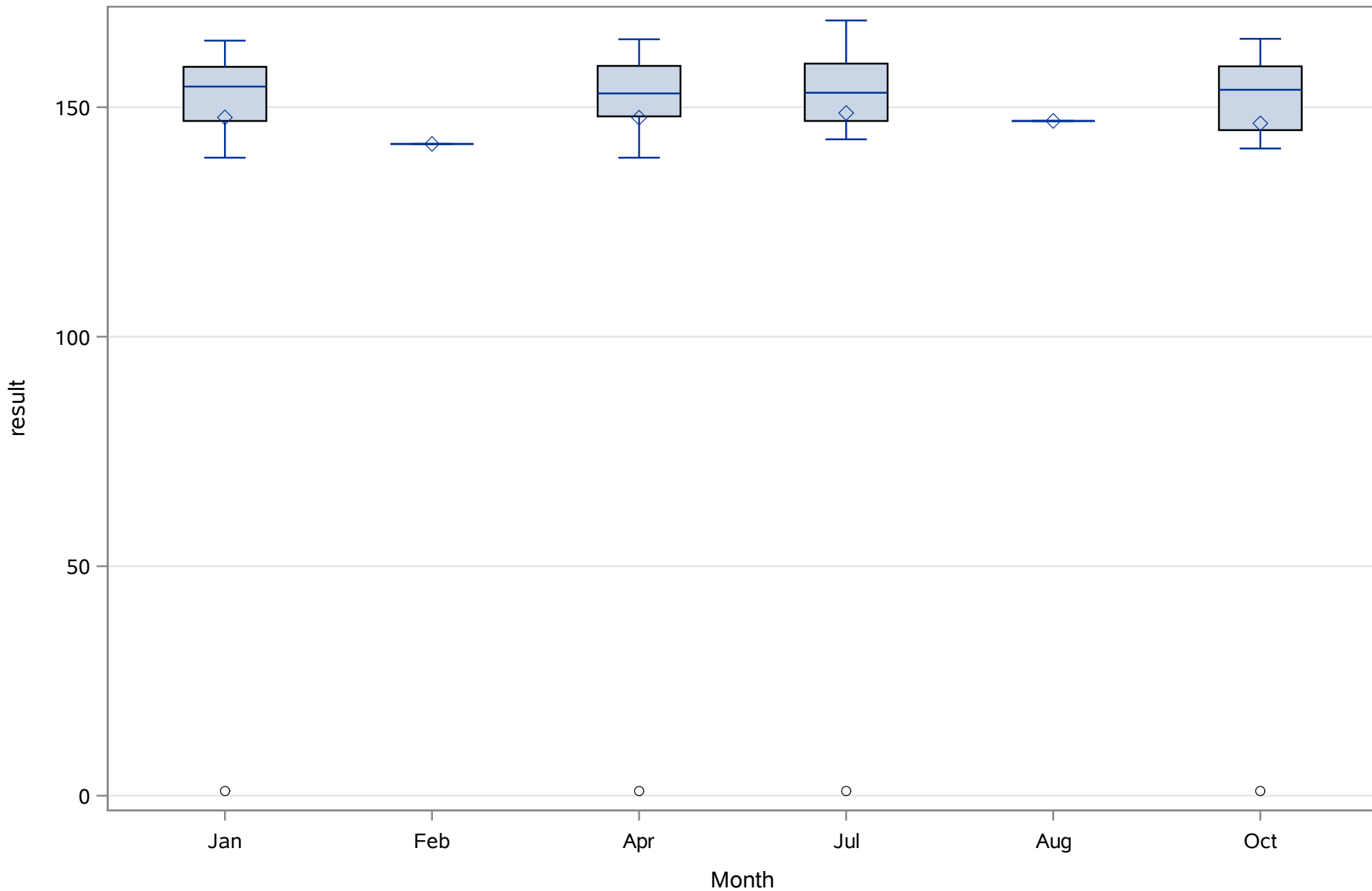
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) NTU



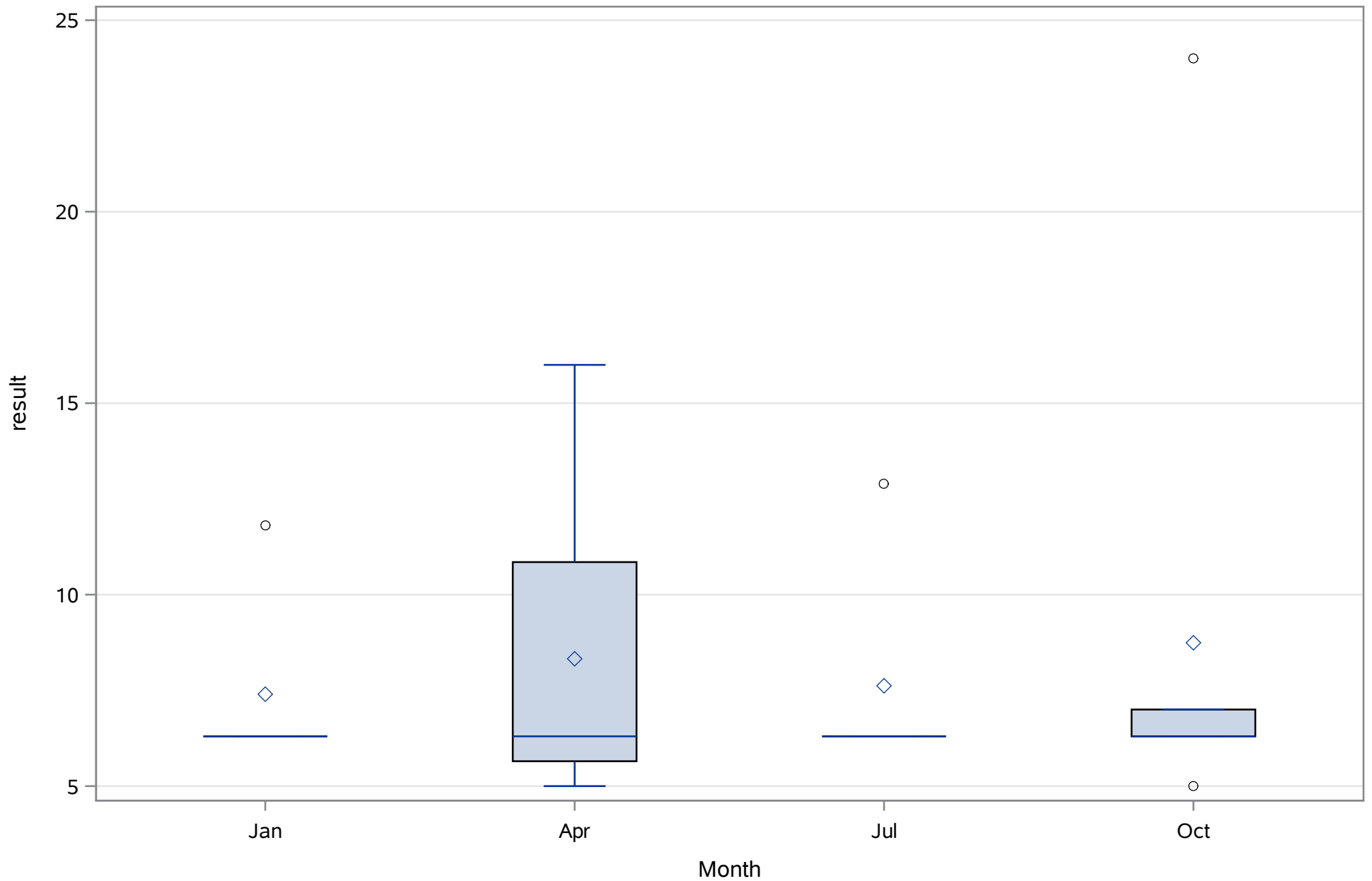
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
pH (Total) SU



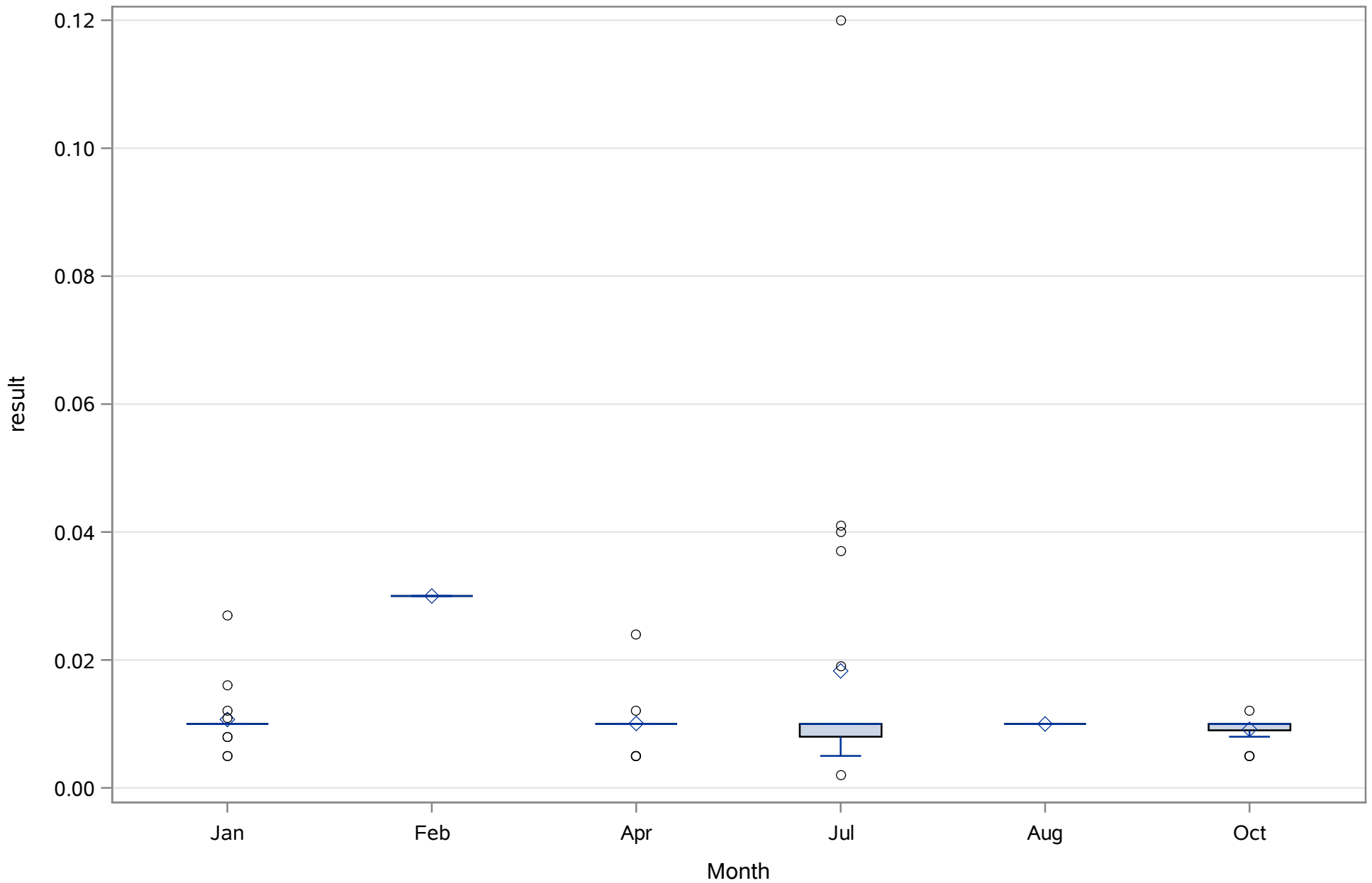
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Alkalinity (Total) mg/L



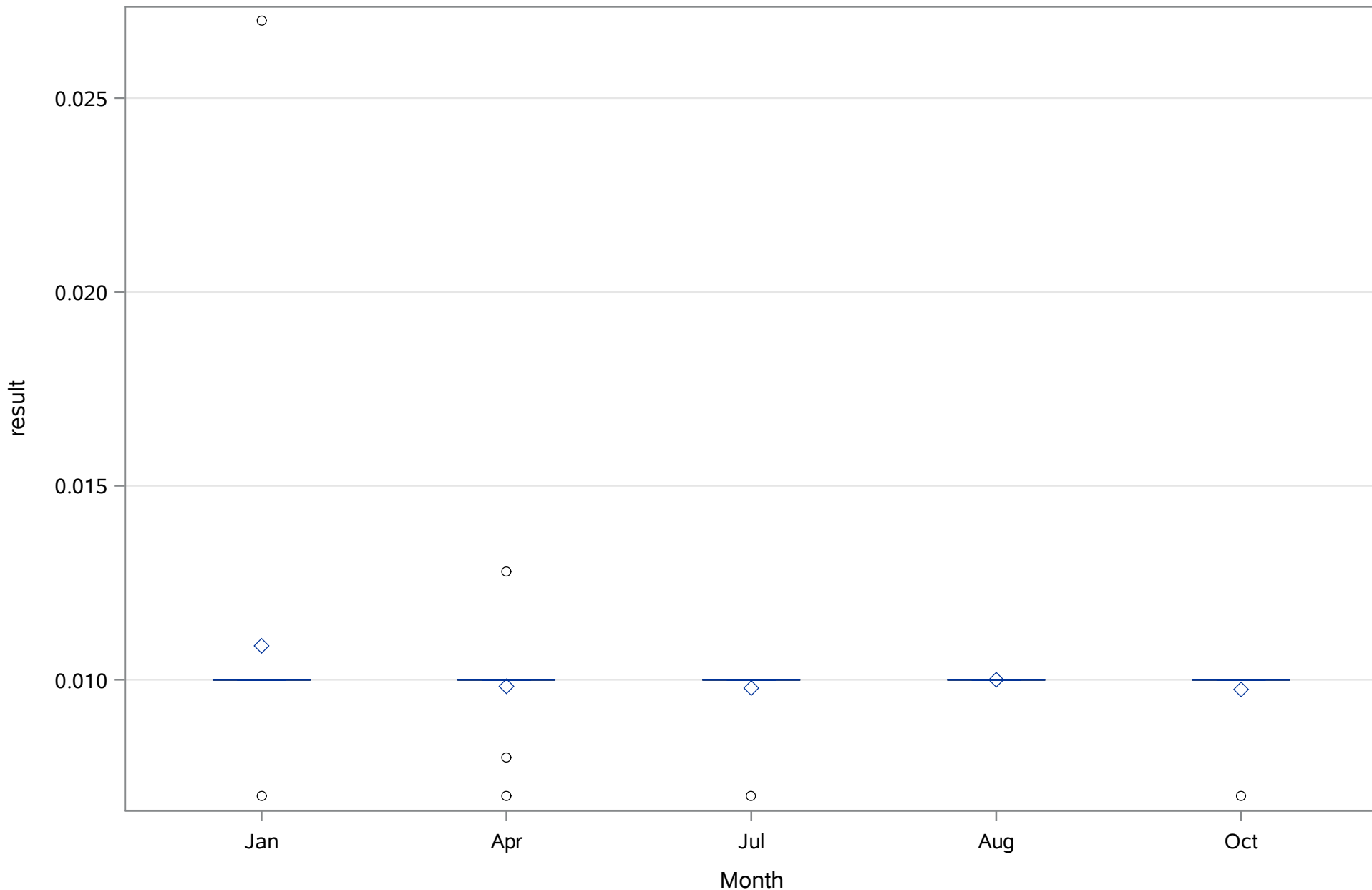
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Aluminum (Dissolved) ug/L



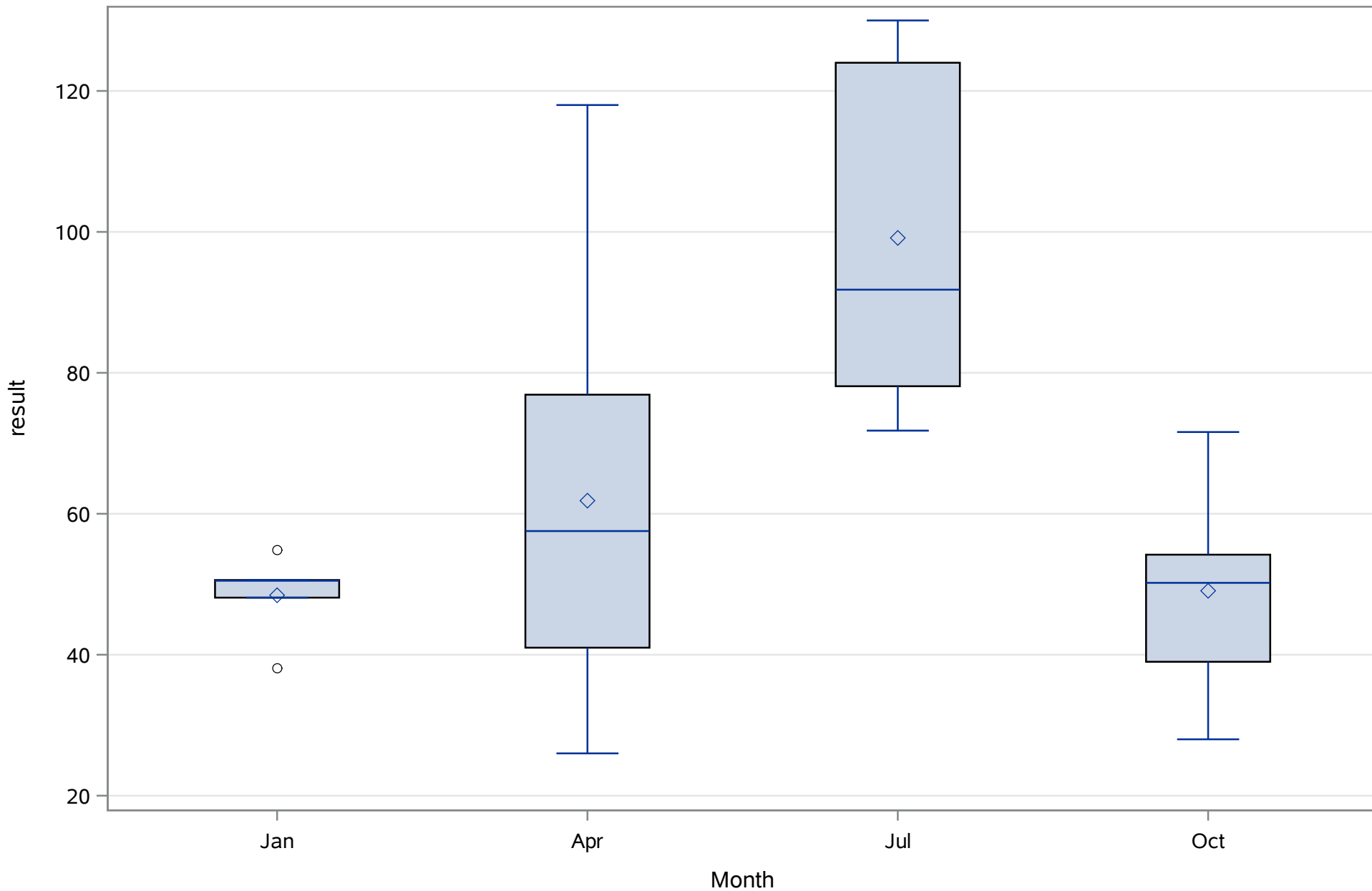
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Dissolved) mg/L



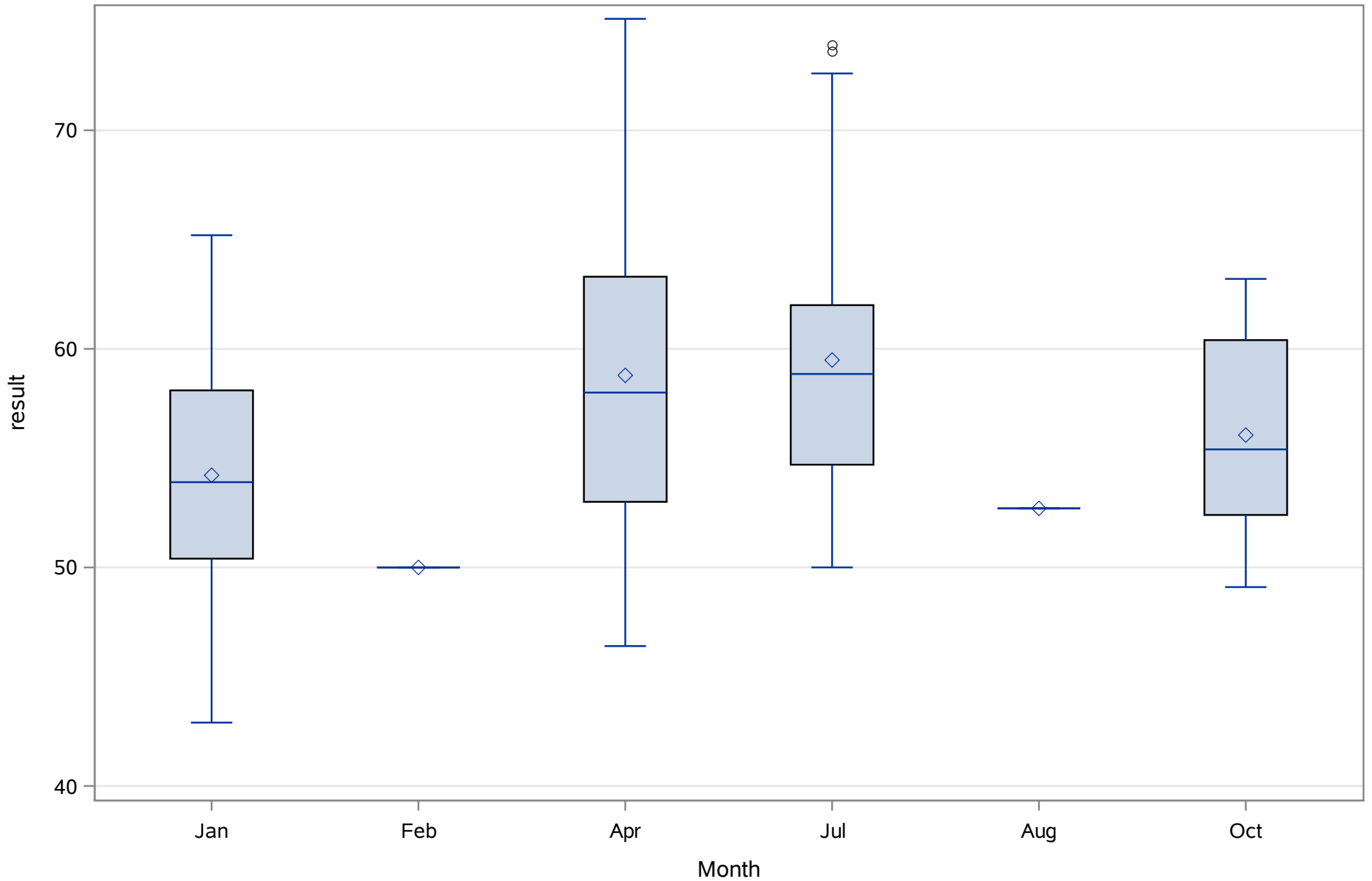
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Ammonia (N) (Total) mg/L



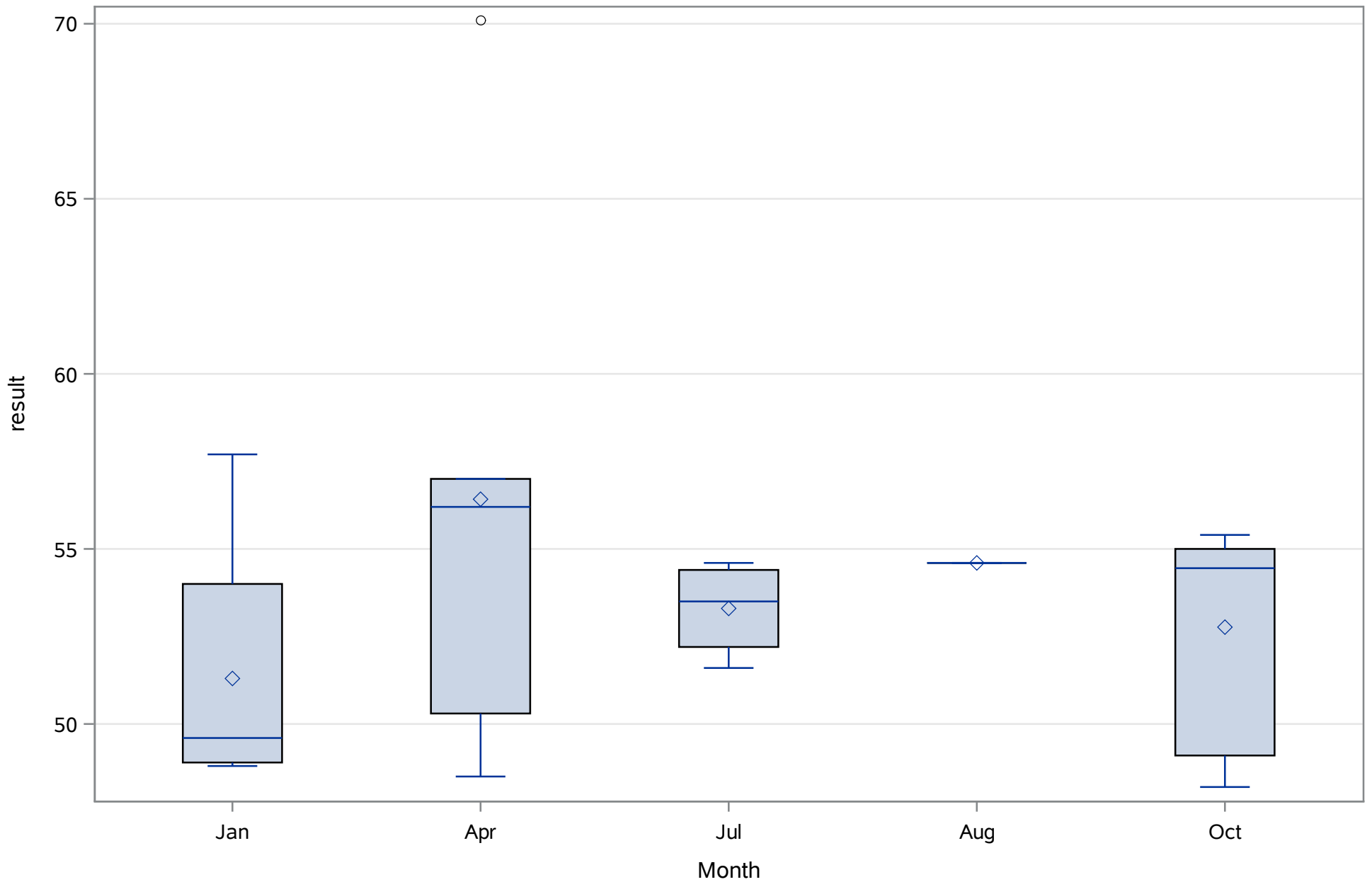
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Boron (Dissolved) ug/L



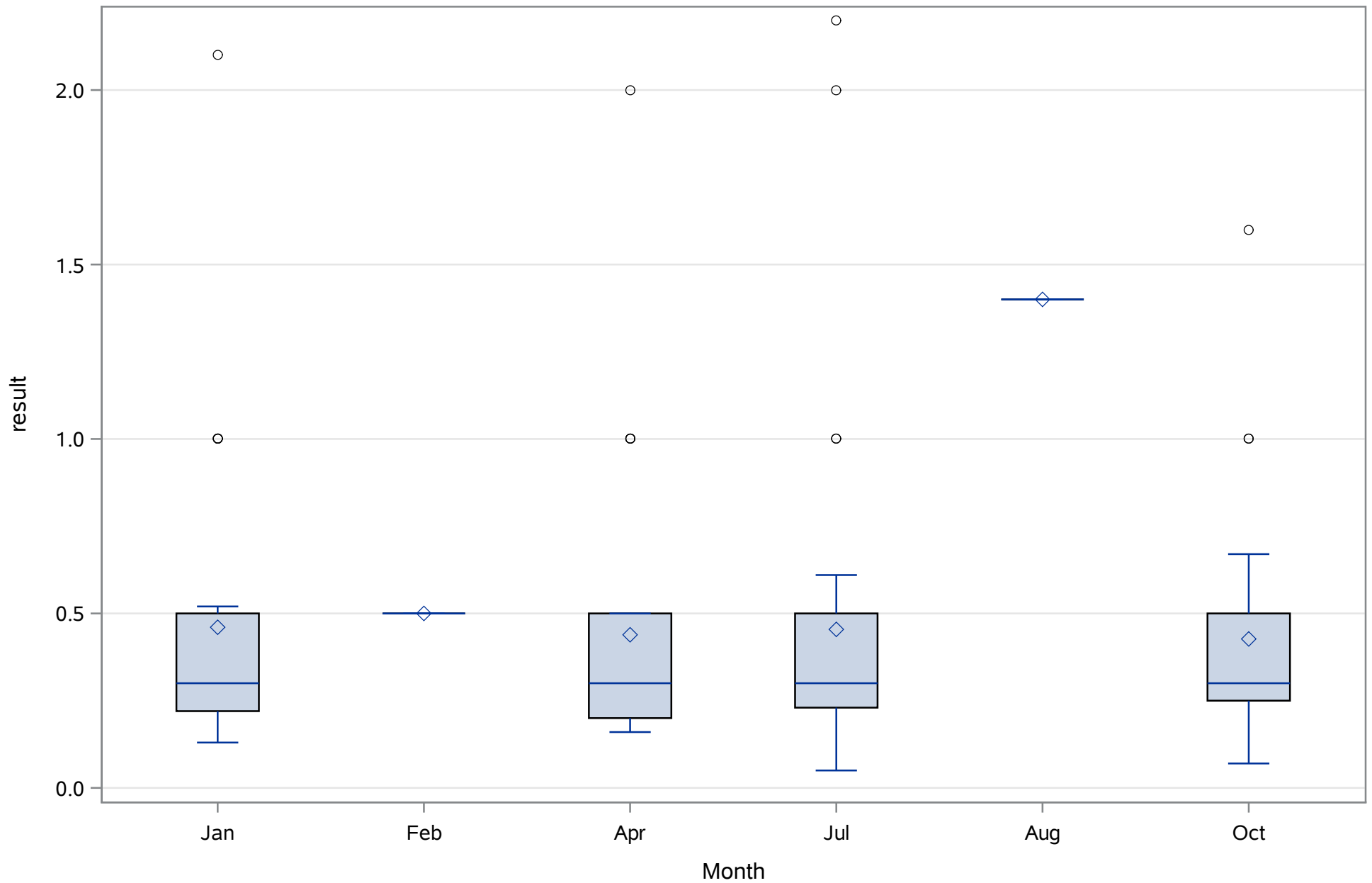
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Dissolved) mg/L



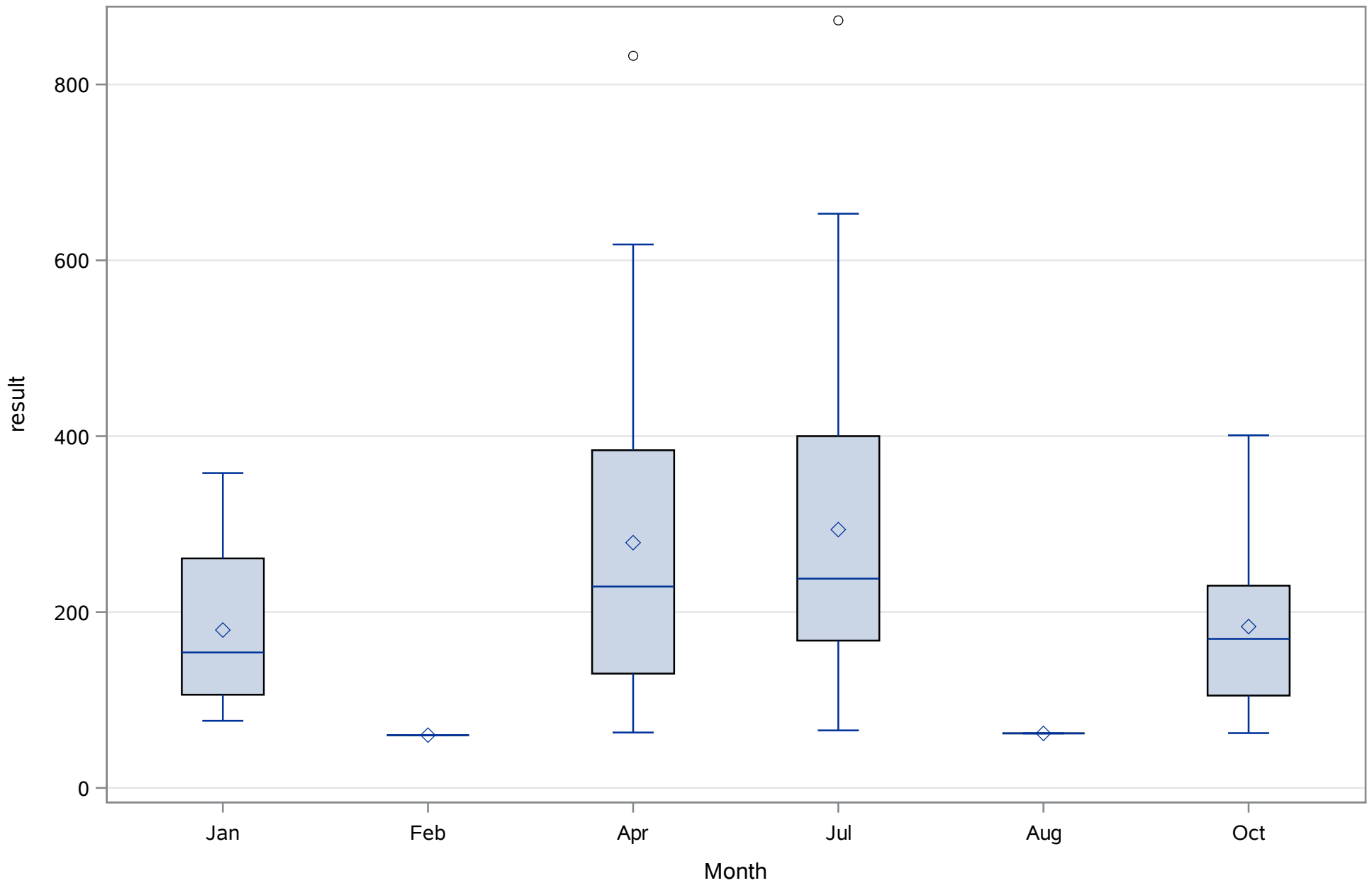
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Calcium (Total) mg/L



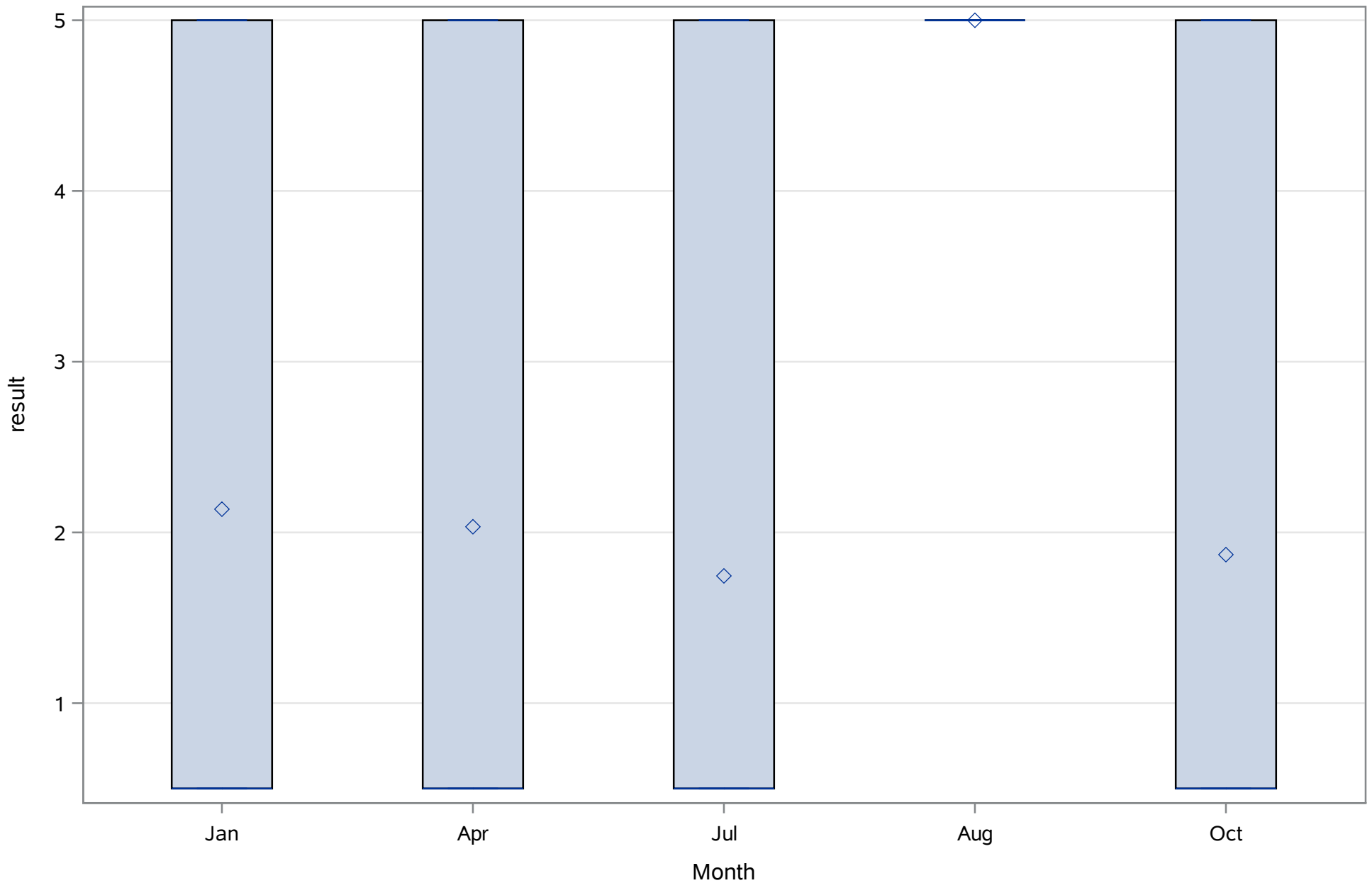
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Carbon- Total Organic (Total) mg/L



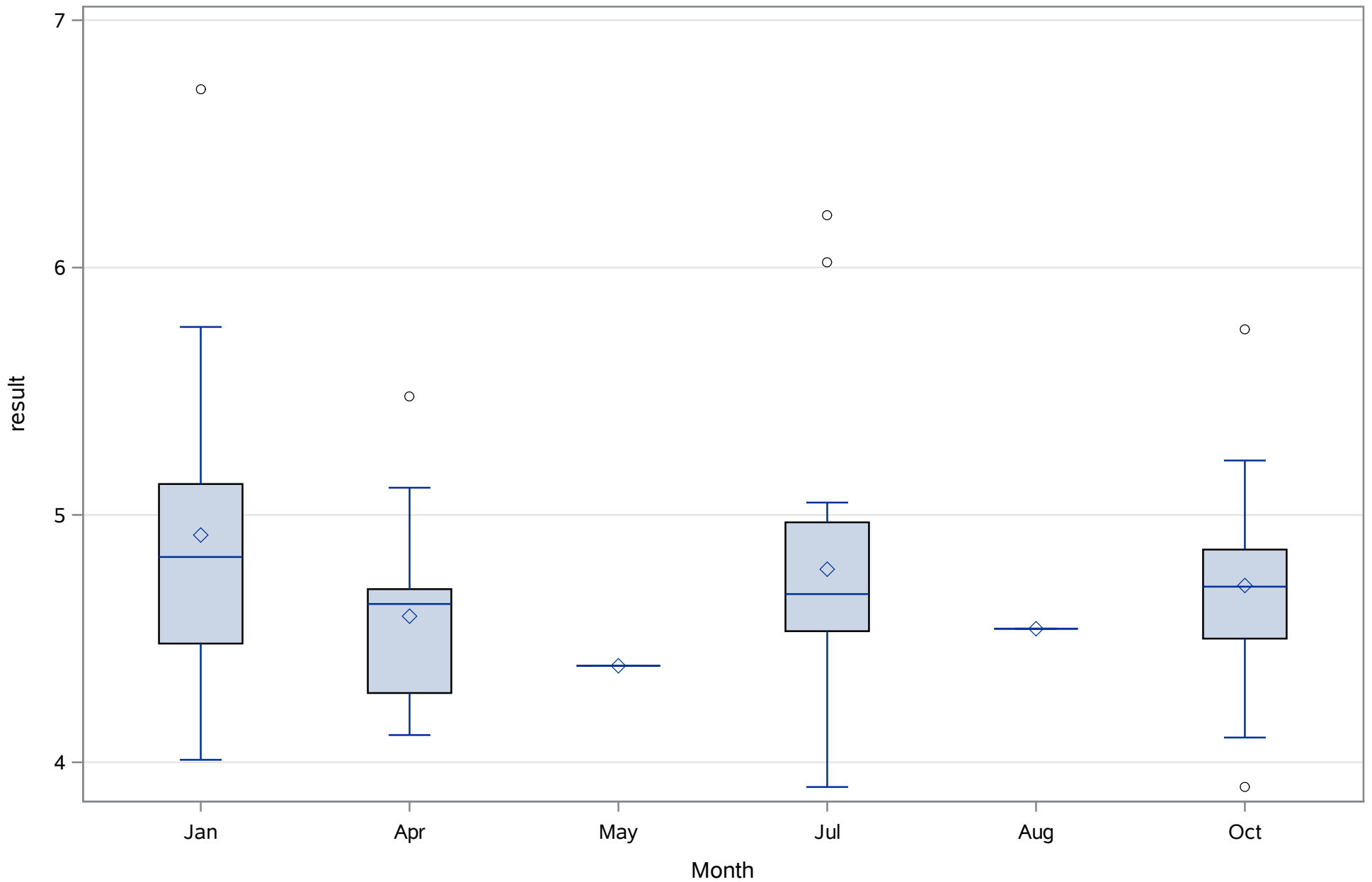
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Chloride (Dissolved) mg/L



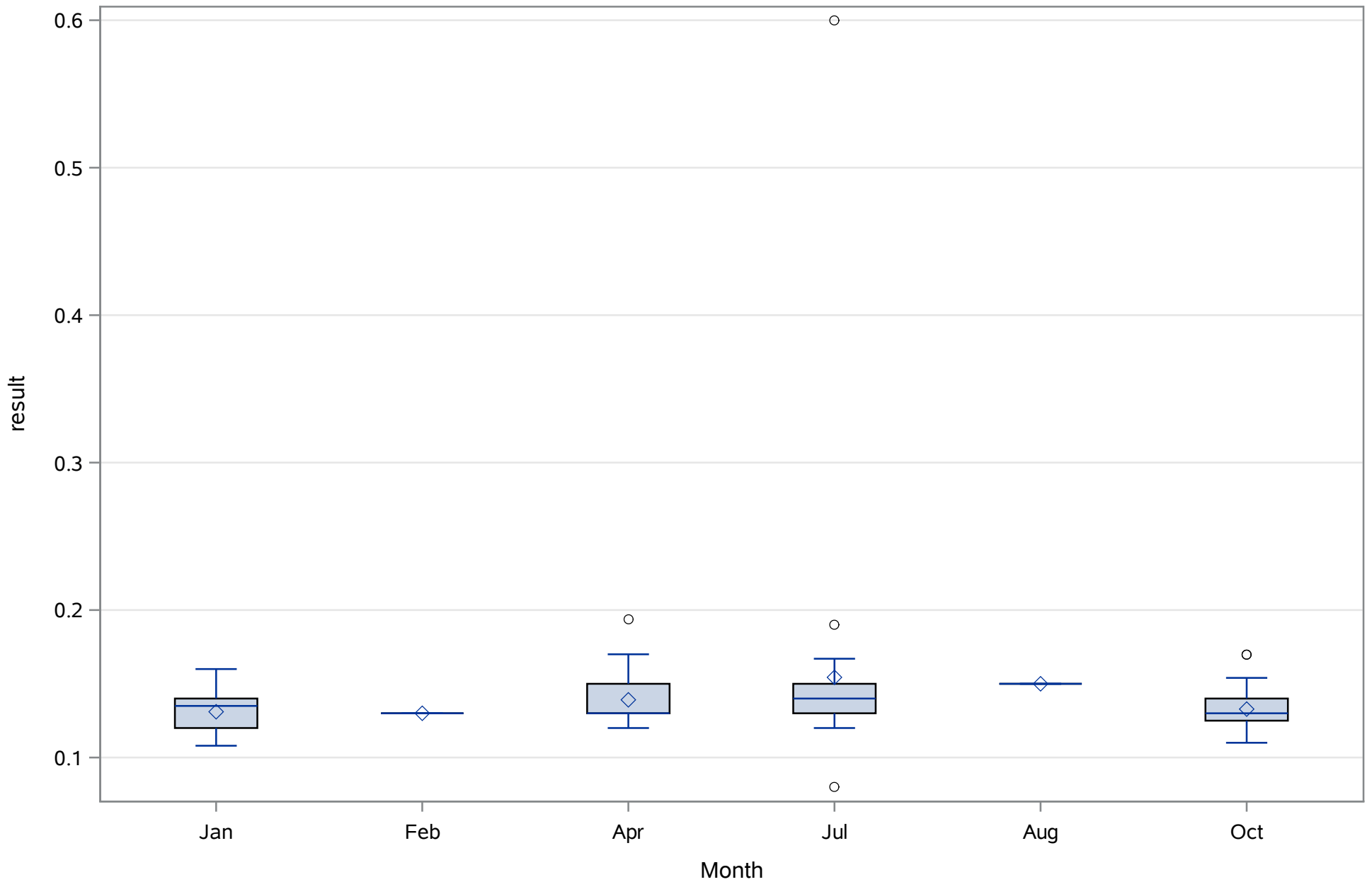
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Color (Dissolved) PCU



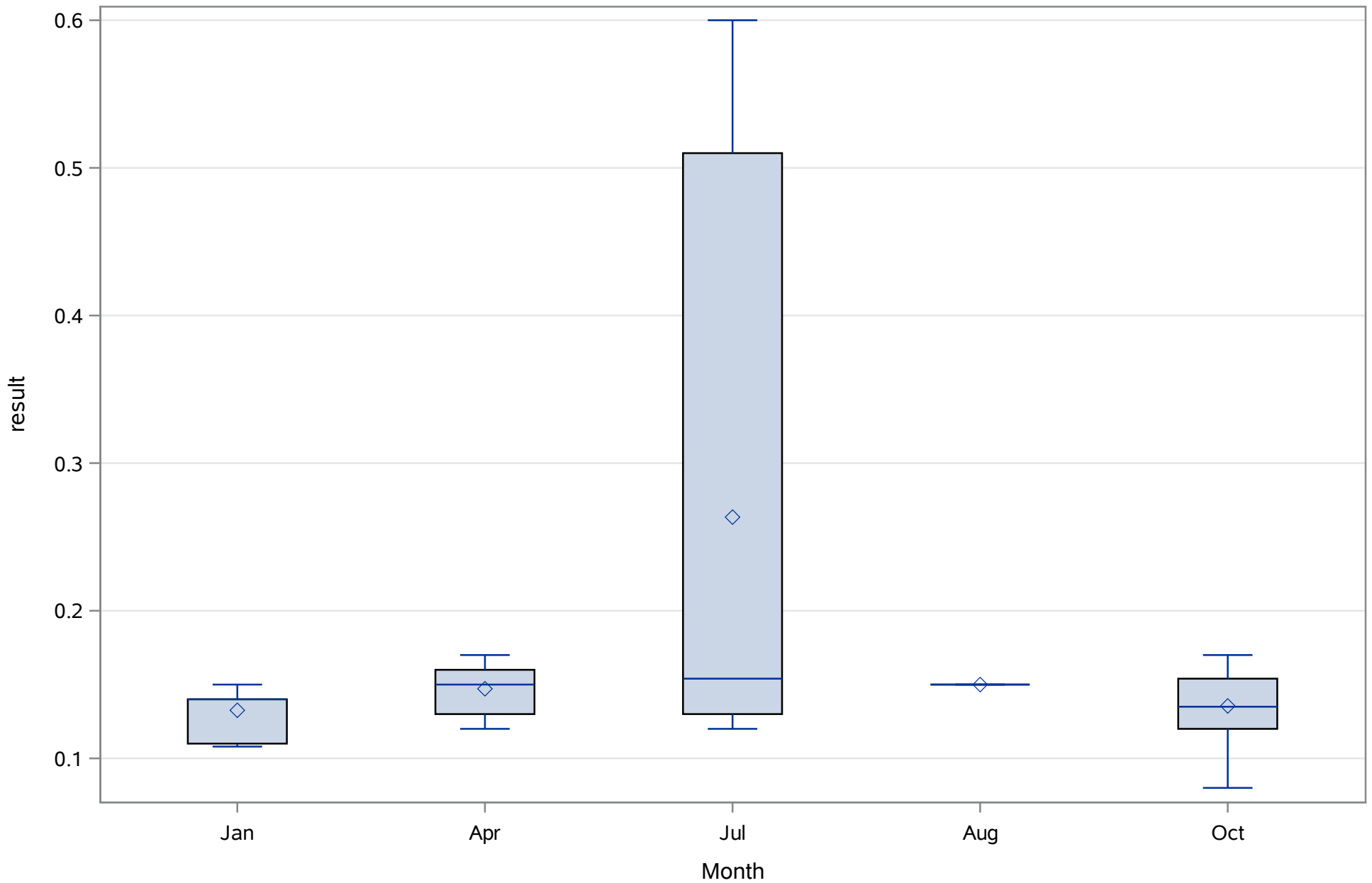
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Dissolved Oxygen (Total) mg/L



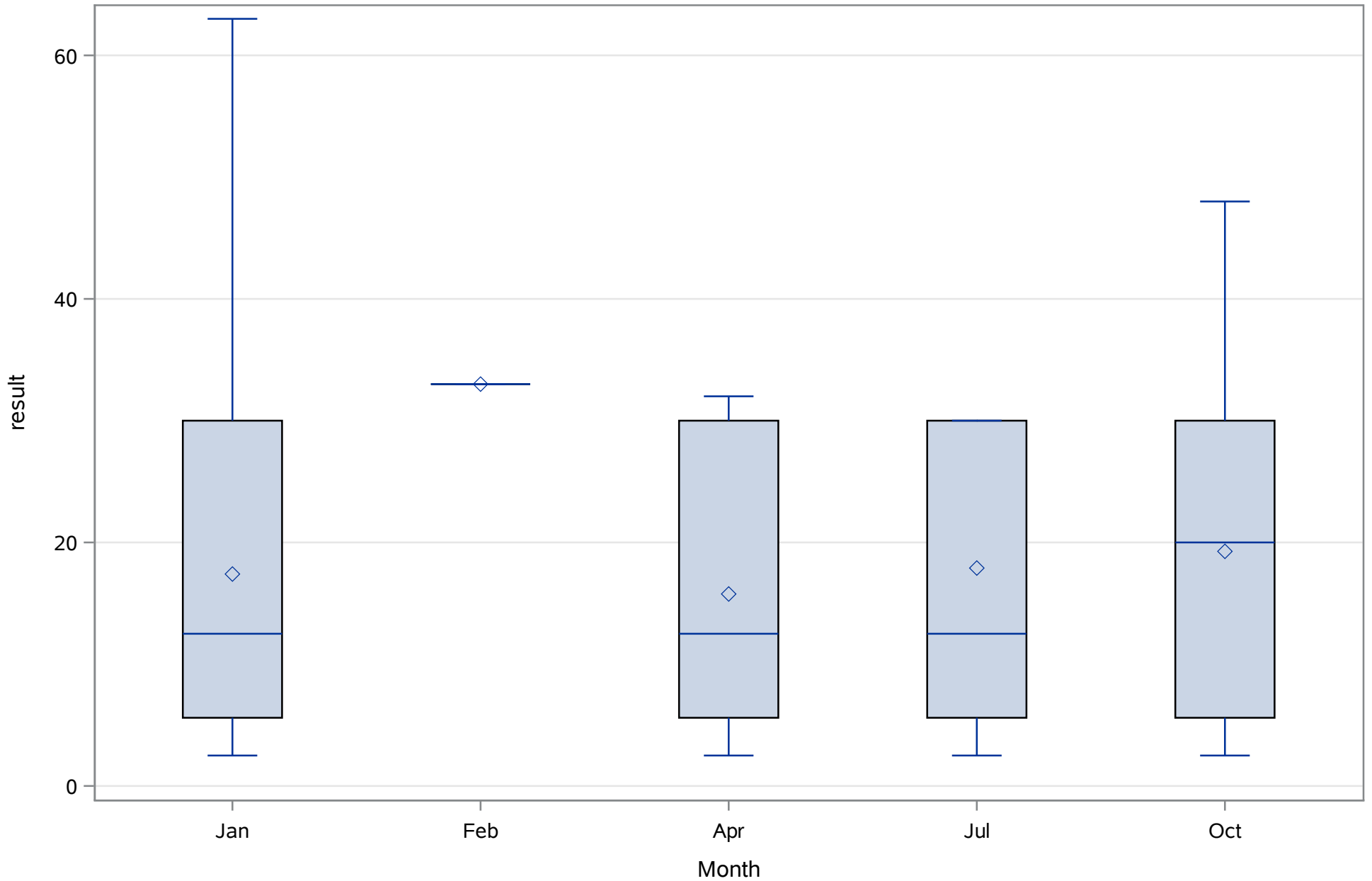
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Dissolved) mg/L



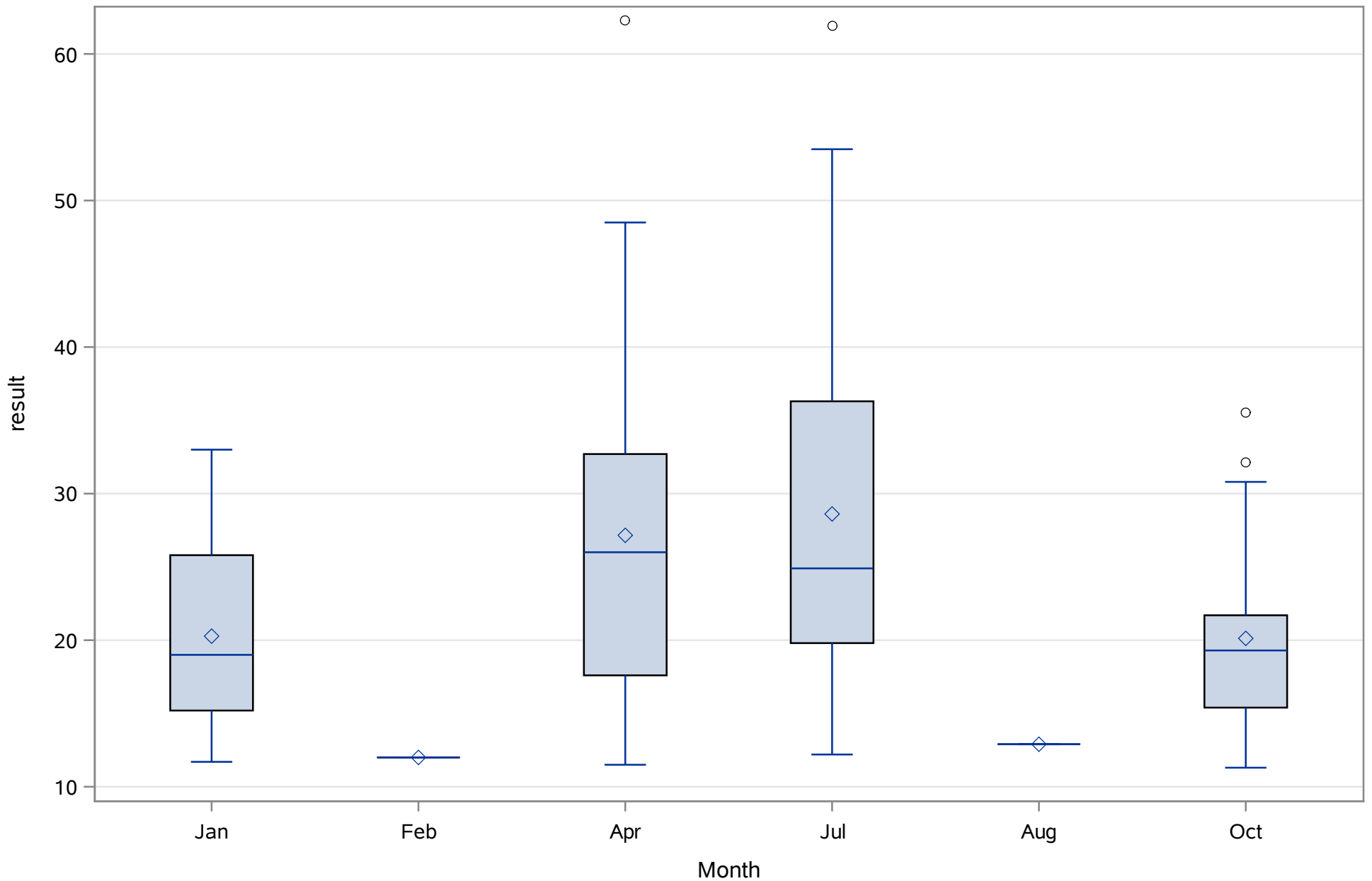
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Fluoride (Total) mg/L



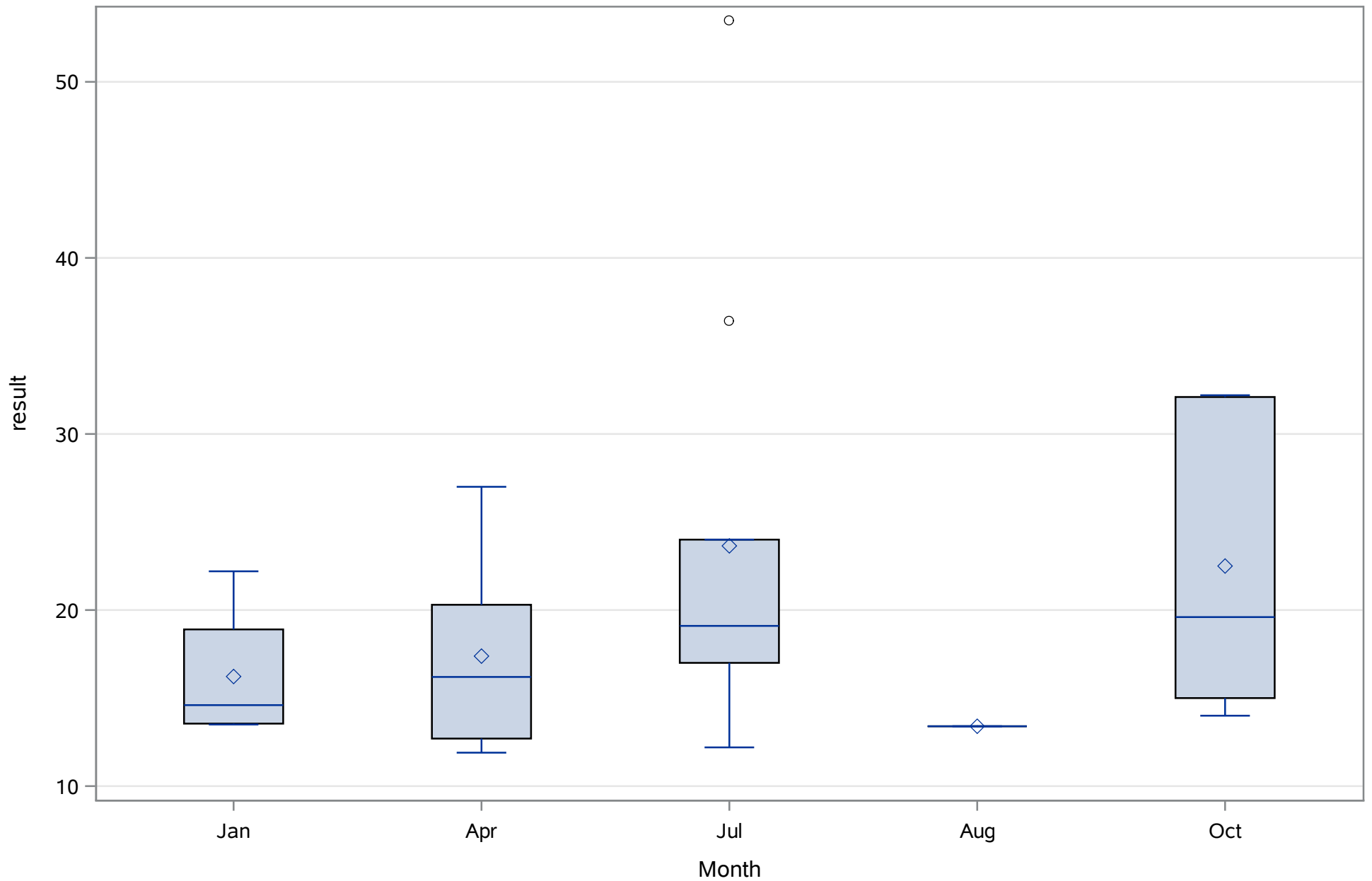
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Iron (Dissolved) ug/L



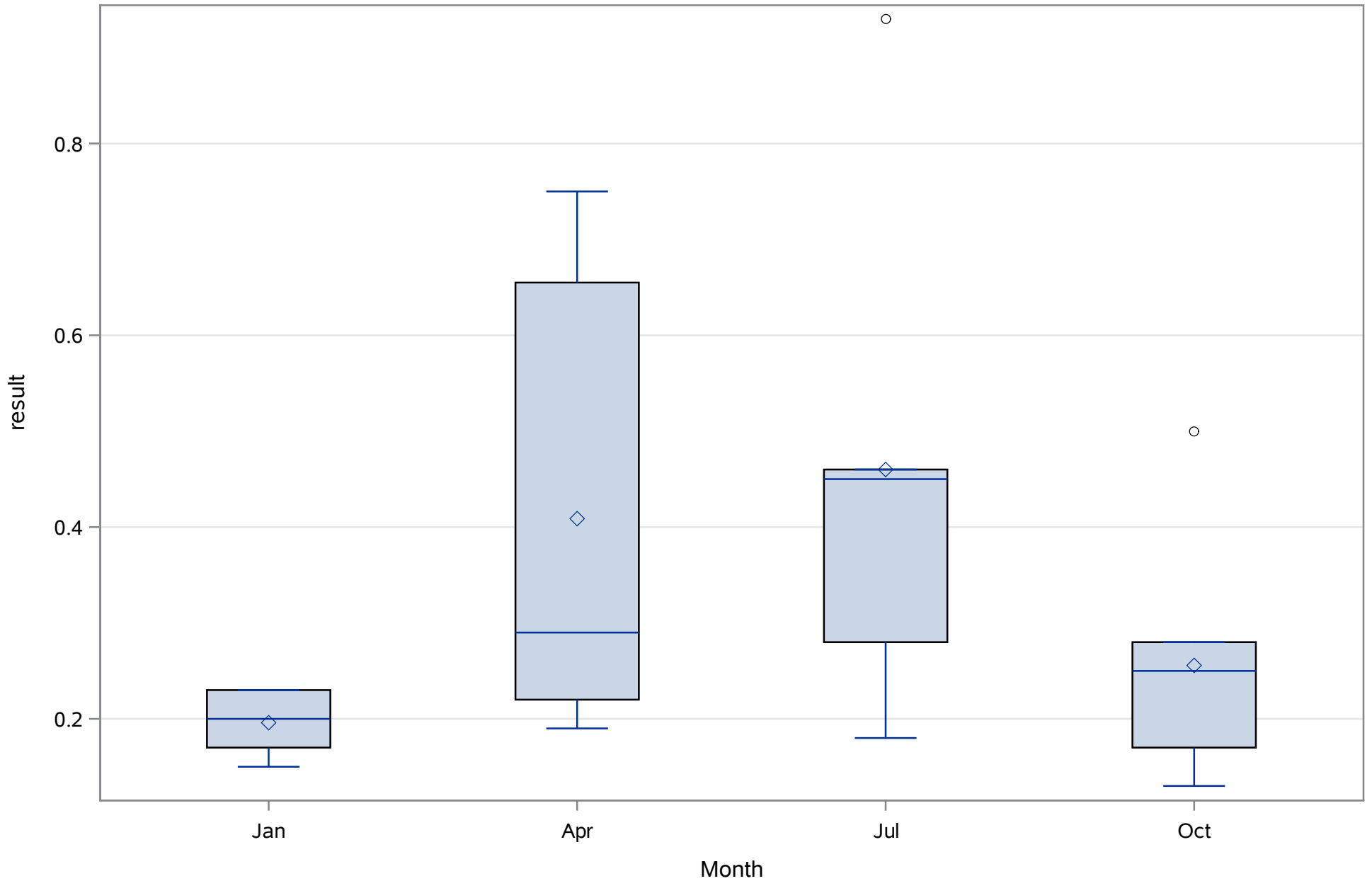
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Dissolved) mg/L



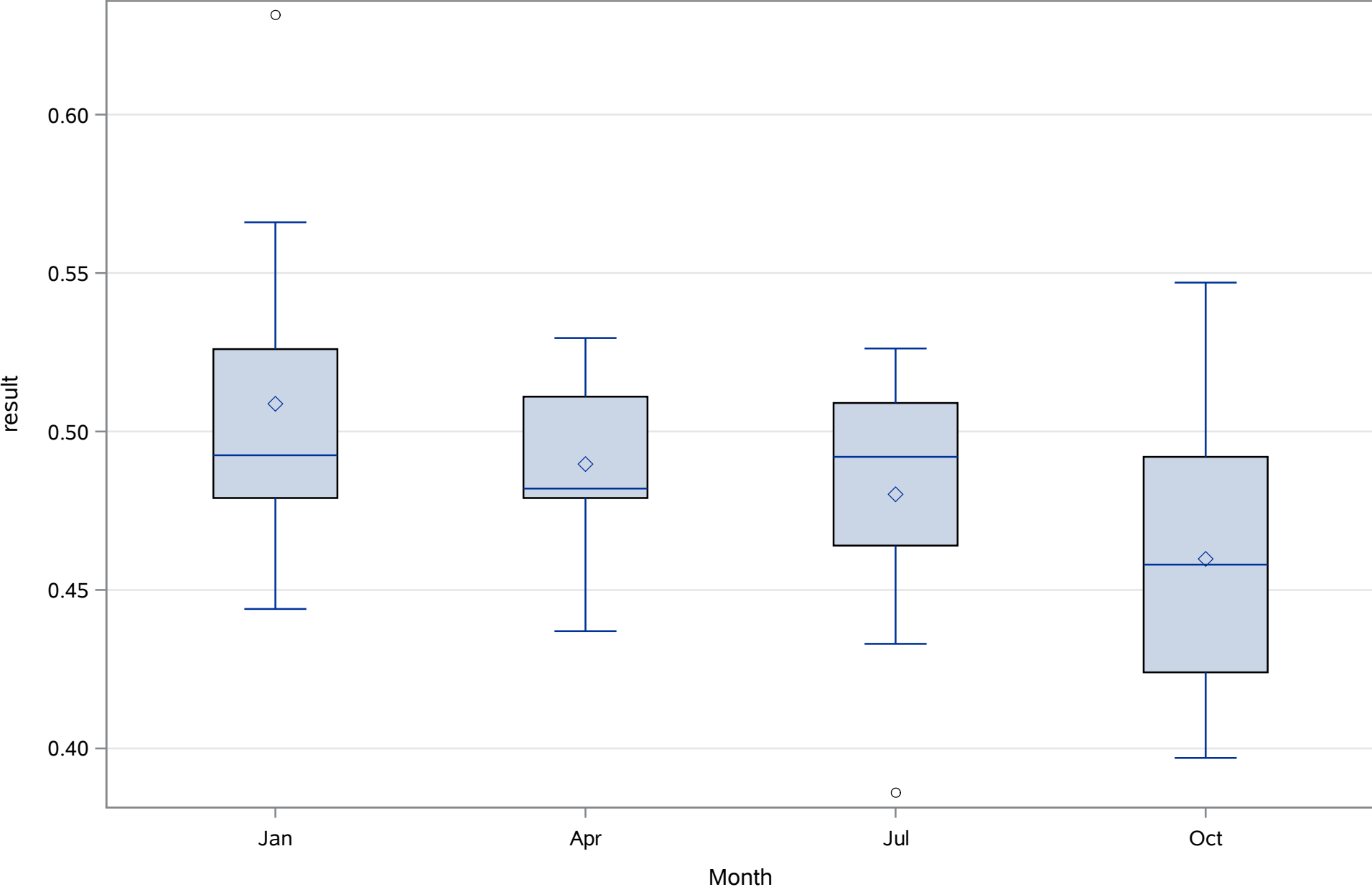
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Magnesium (Total) mg/L



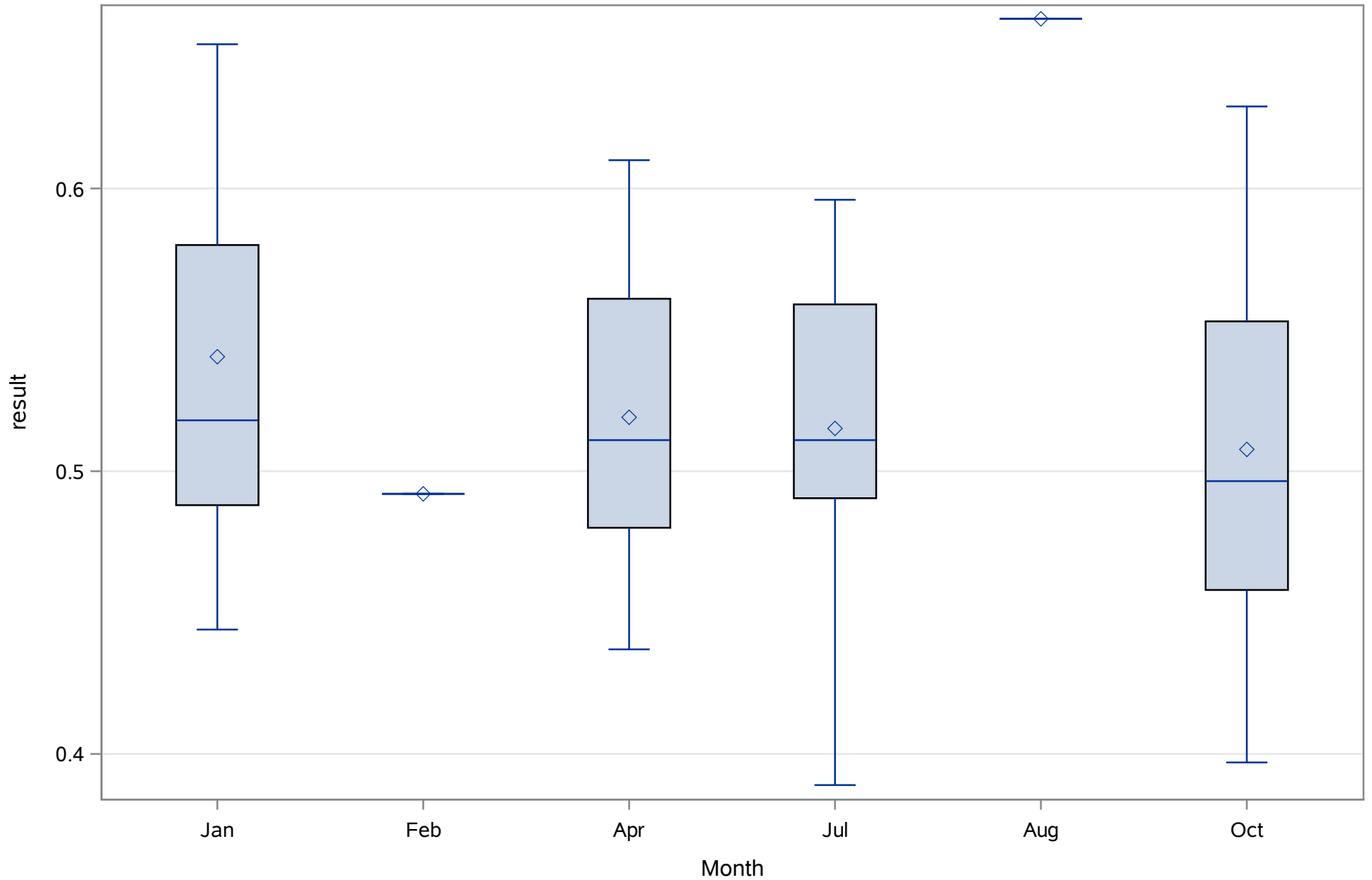
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Manganese (Dissolved) ug/L



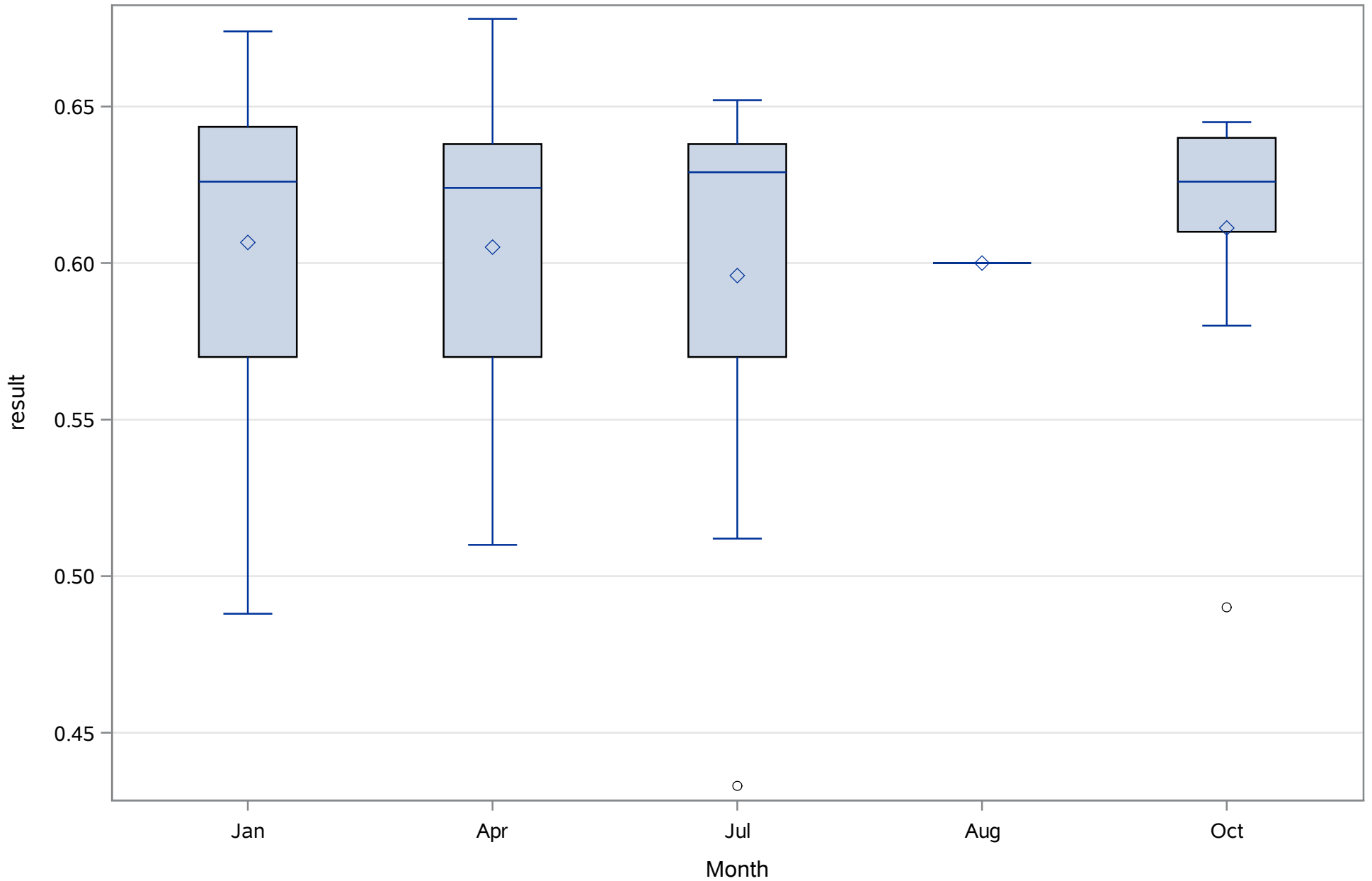
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate (N) (Dissolved) mg/L



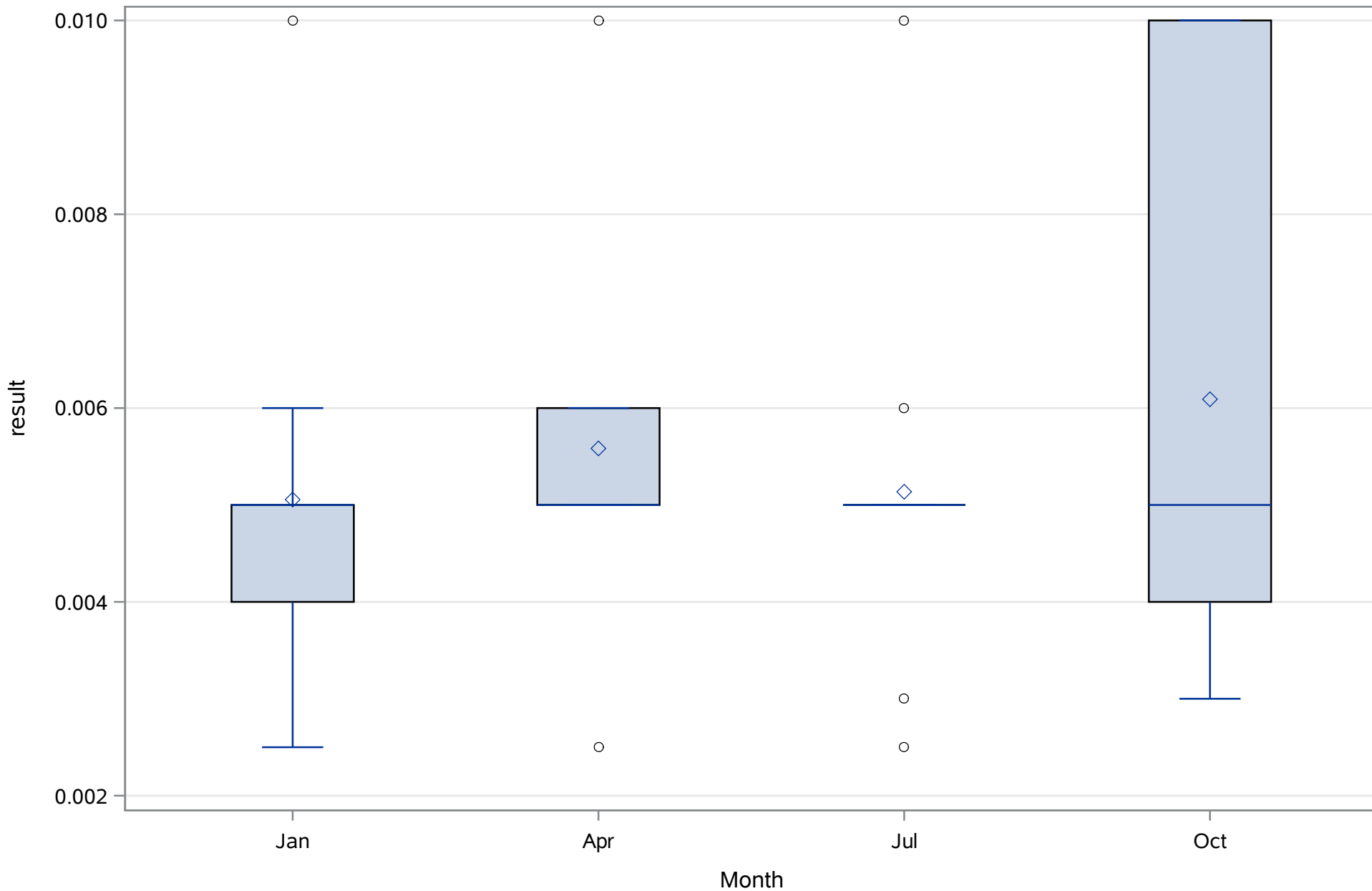
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



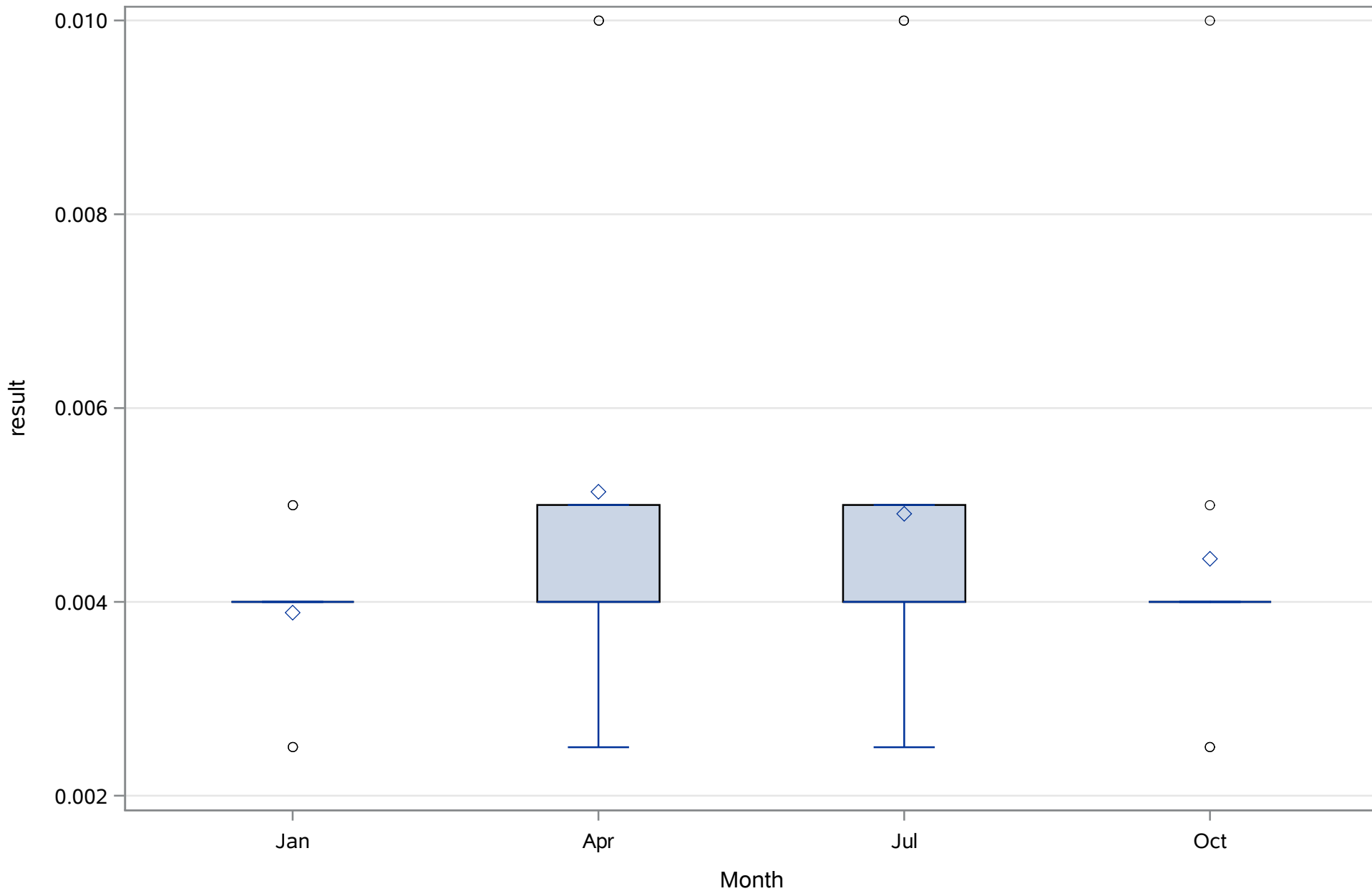
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrate-Nitrite (N) (Total) mg/L



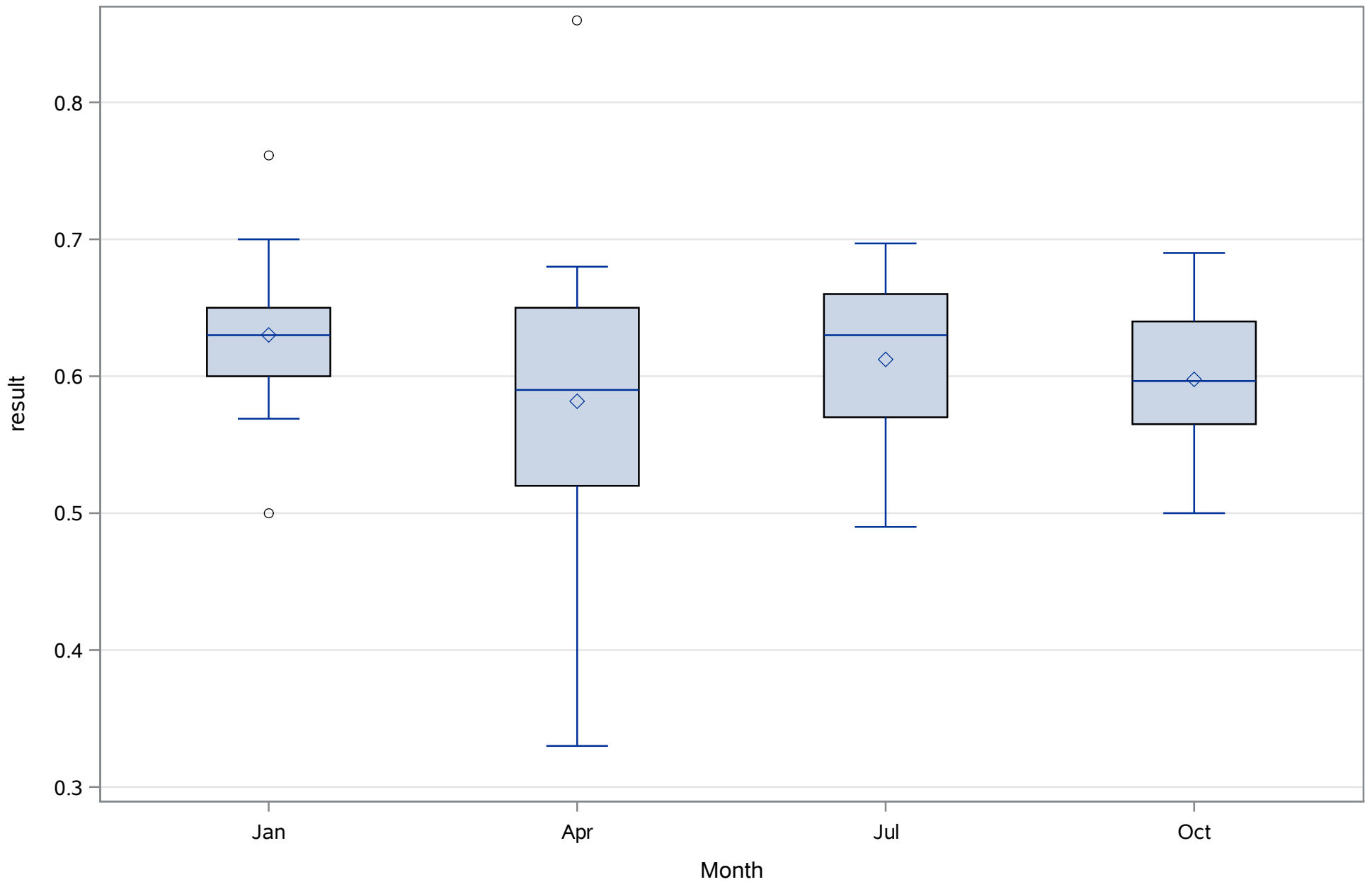
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Dissolved) mg/L



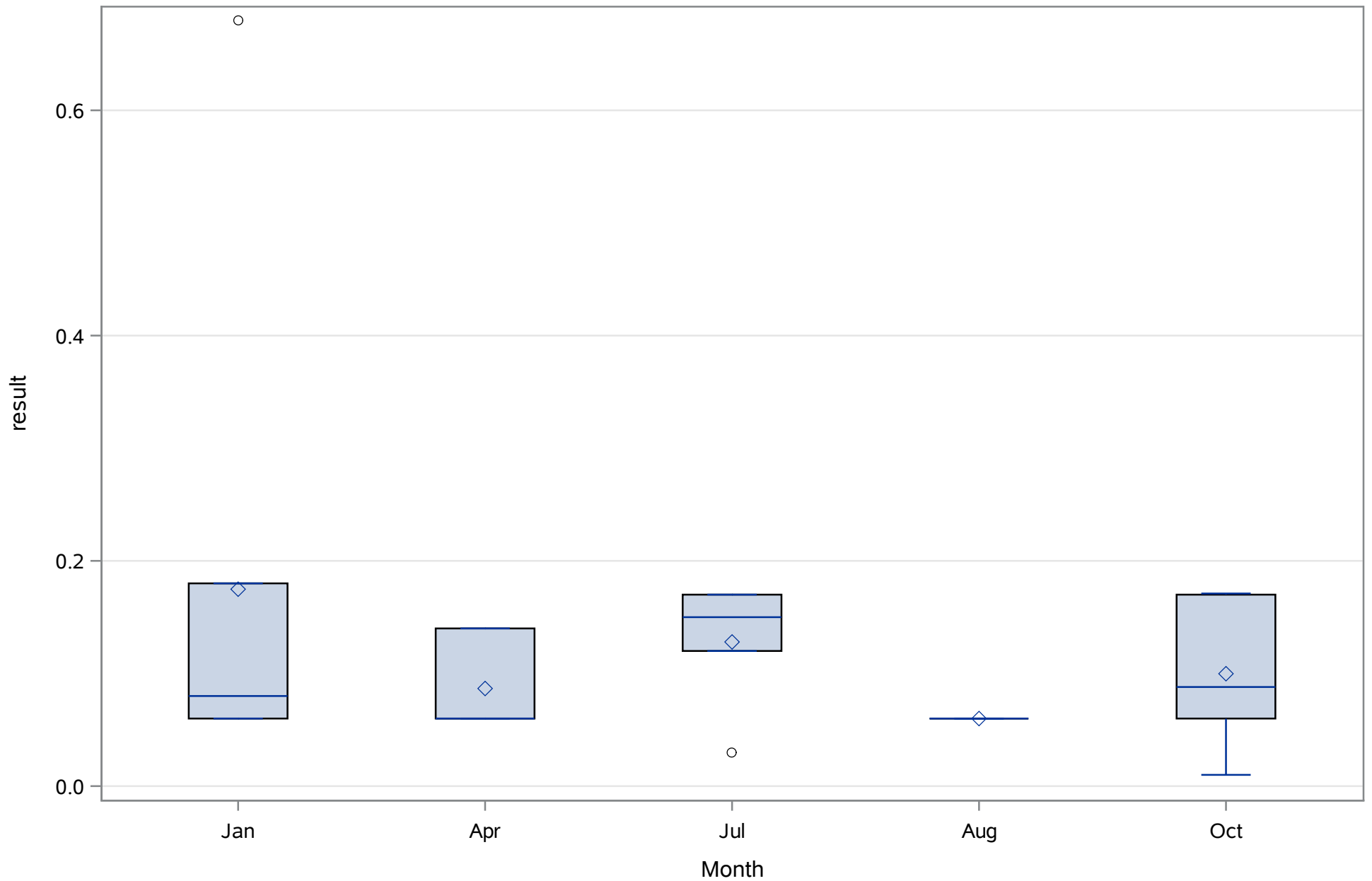
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrite (N) (Total) mg/L



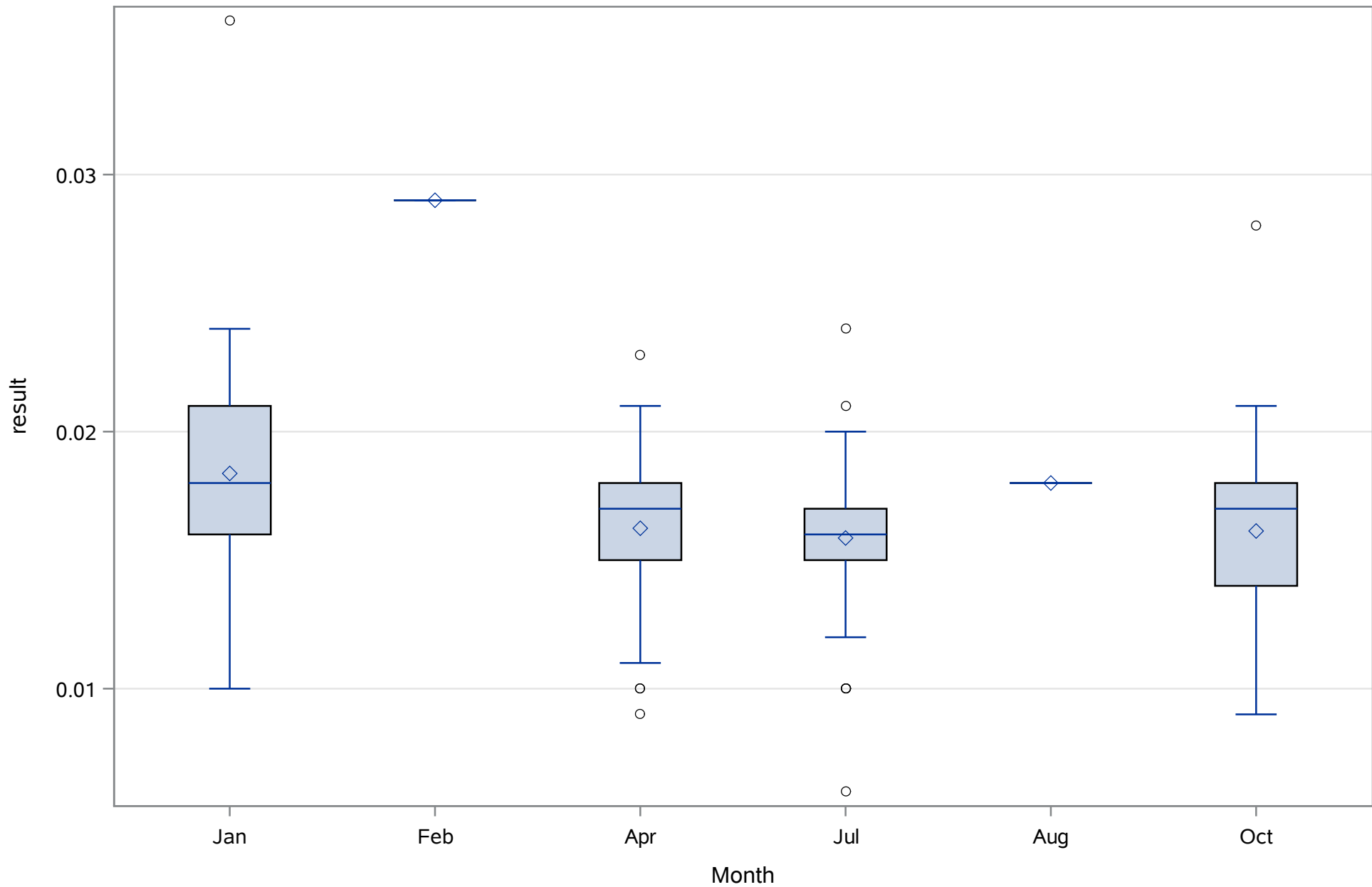
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total (Total) mg/L



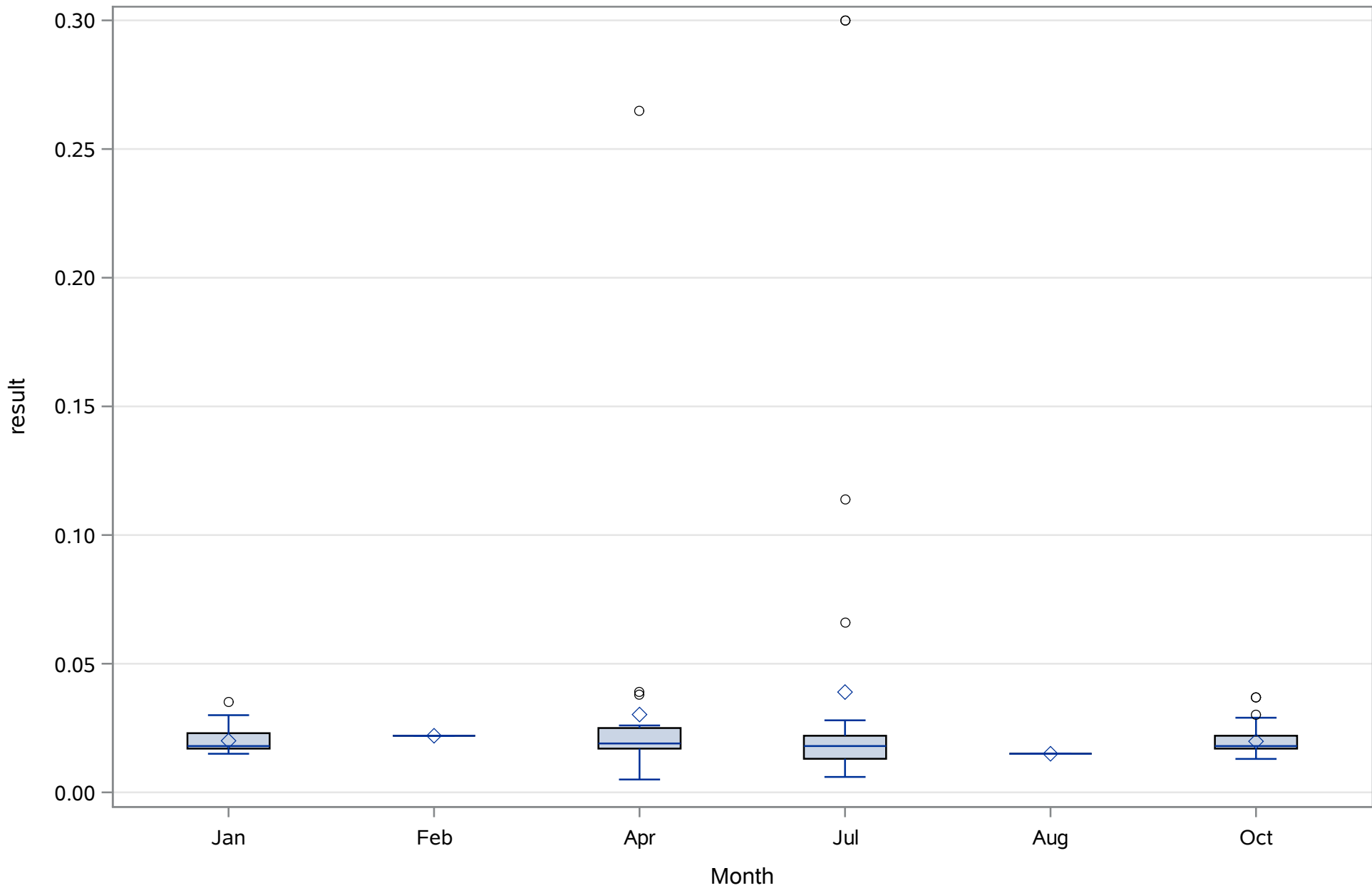
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Nitrogen- Total Kjeldahl (Total) mg/L



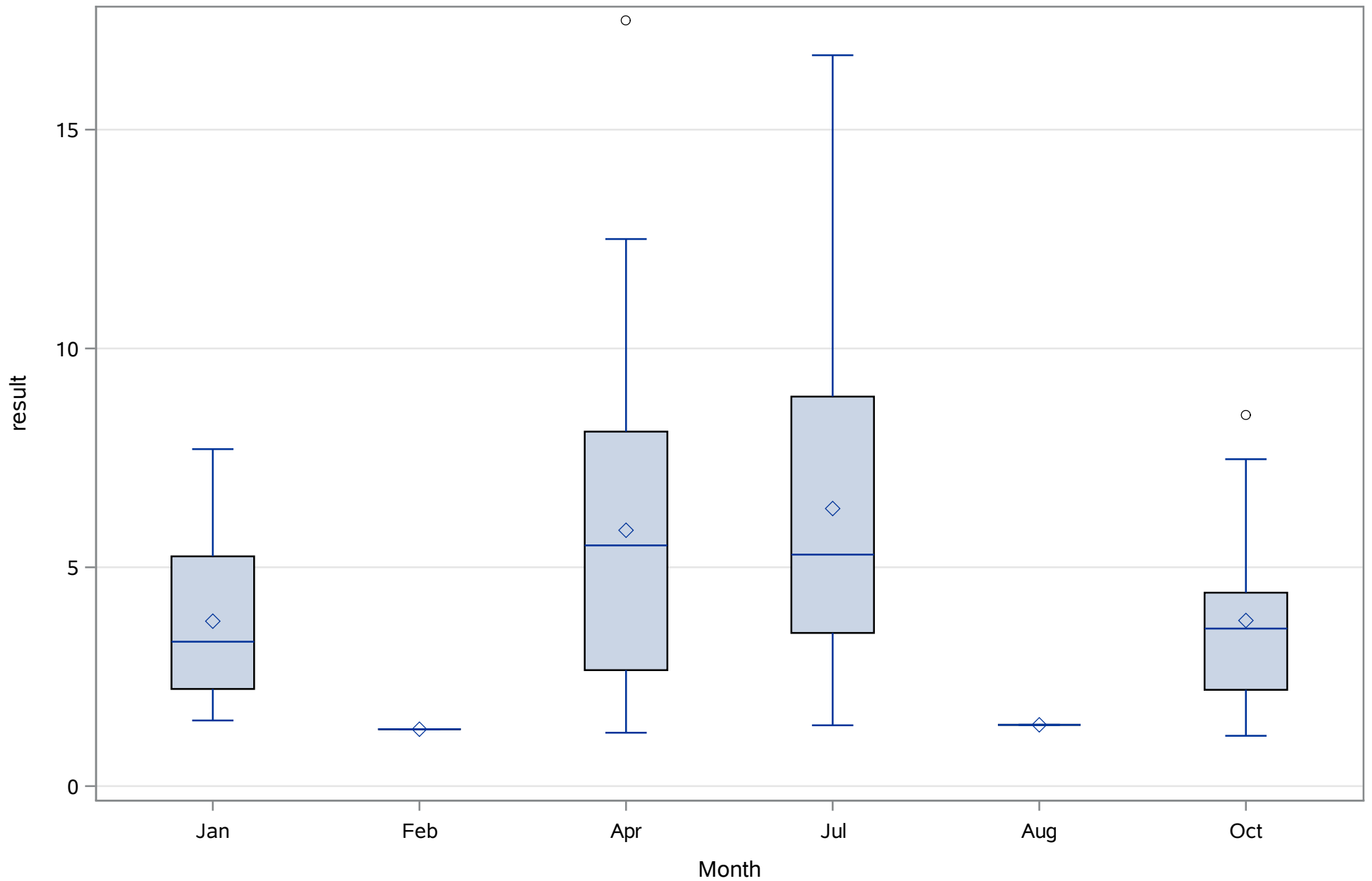
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Orthophosphate (P) (Dissolved) mg/L



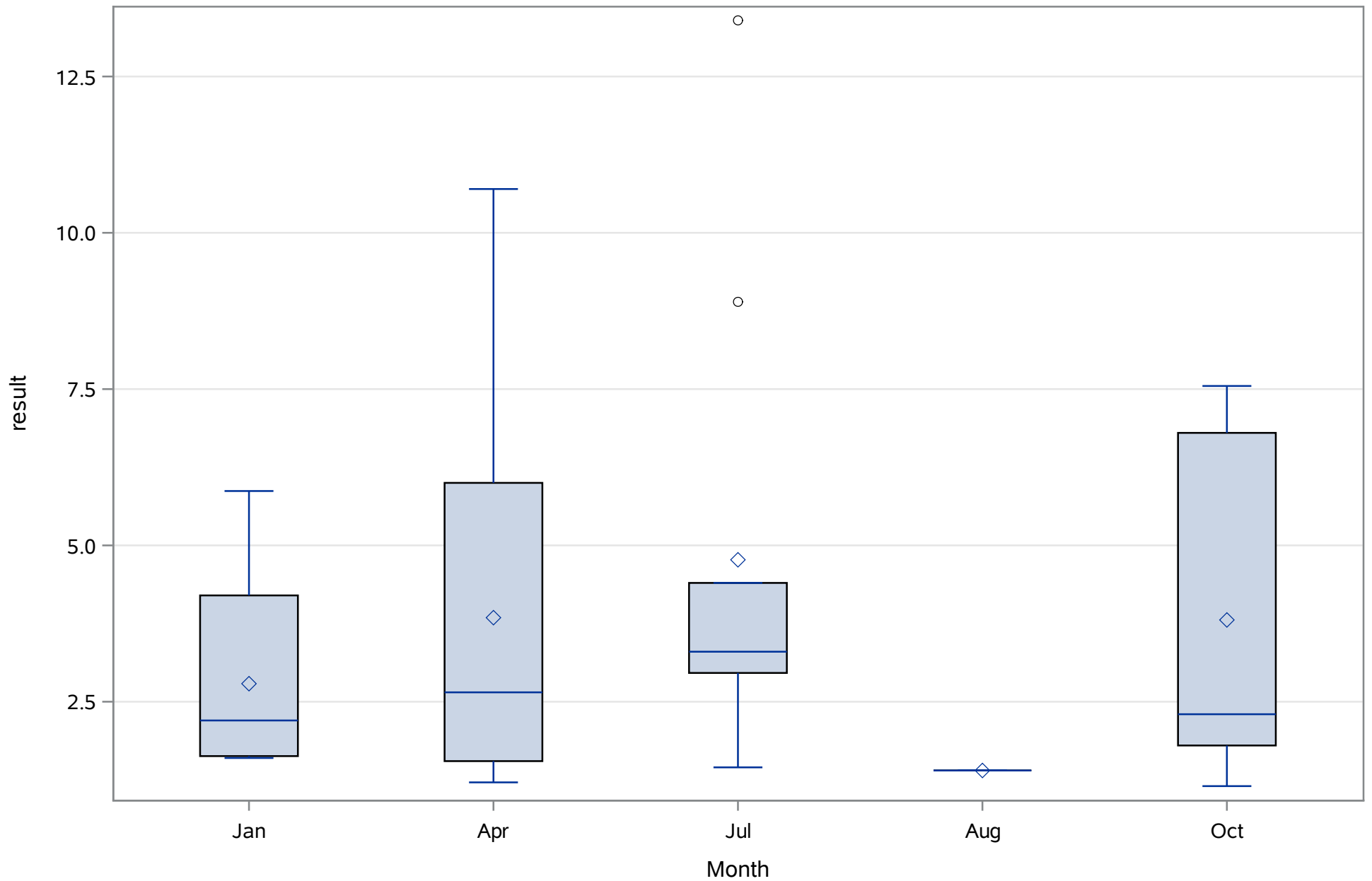
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Phosphorus- Total (Total) mg/L



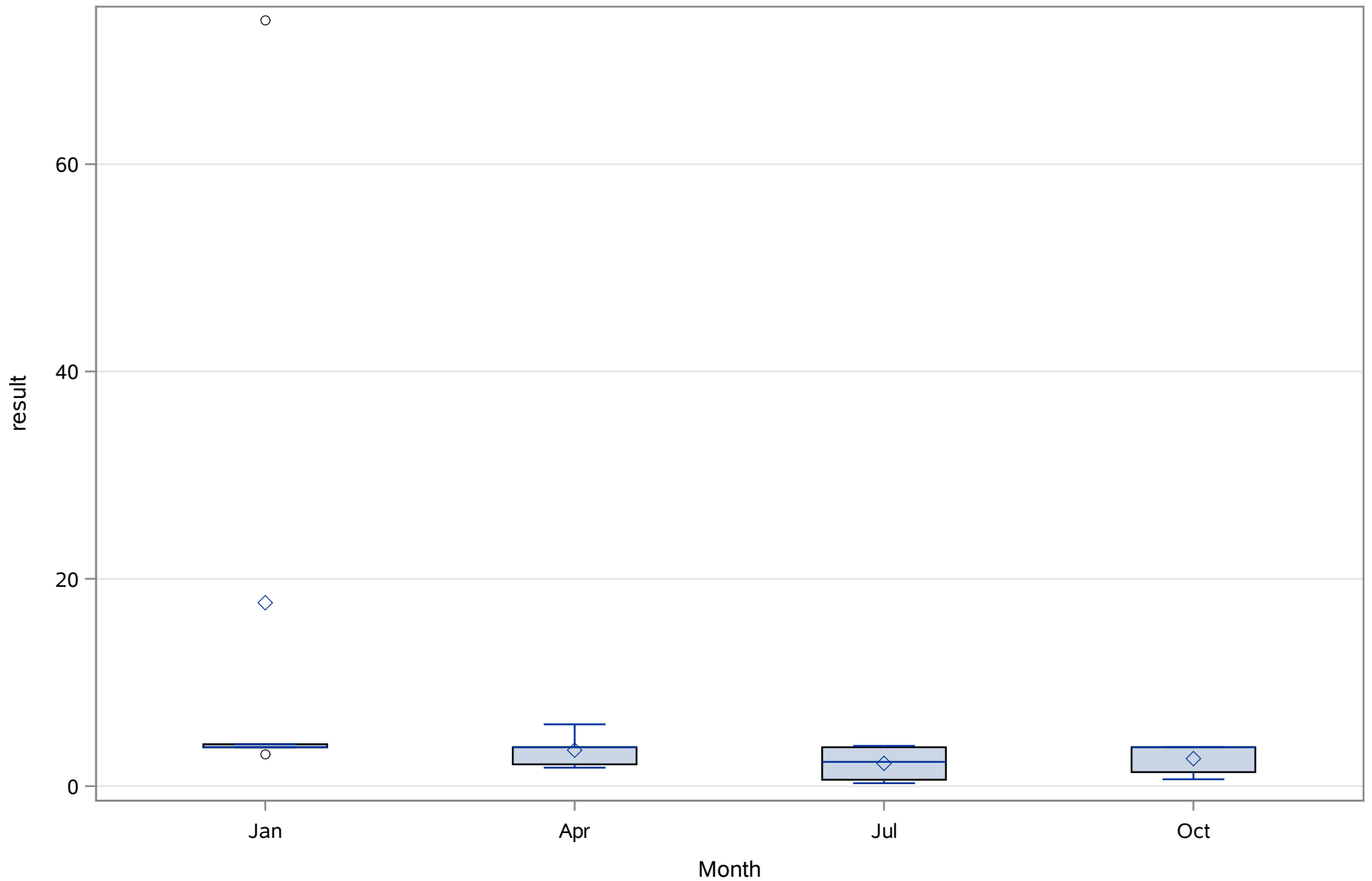
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Dissolved) mg/L



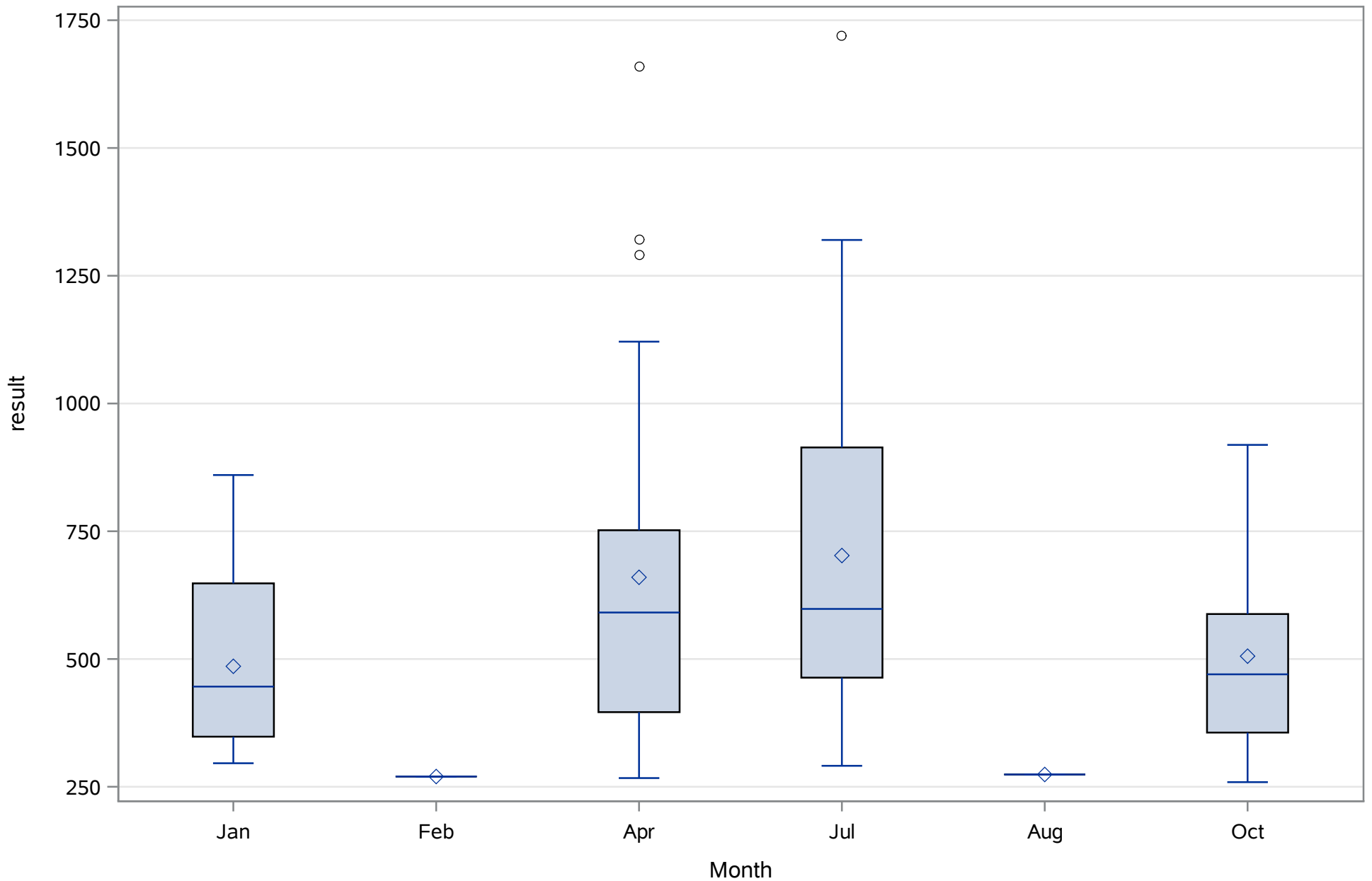
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Potassium (Total) mg/L



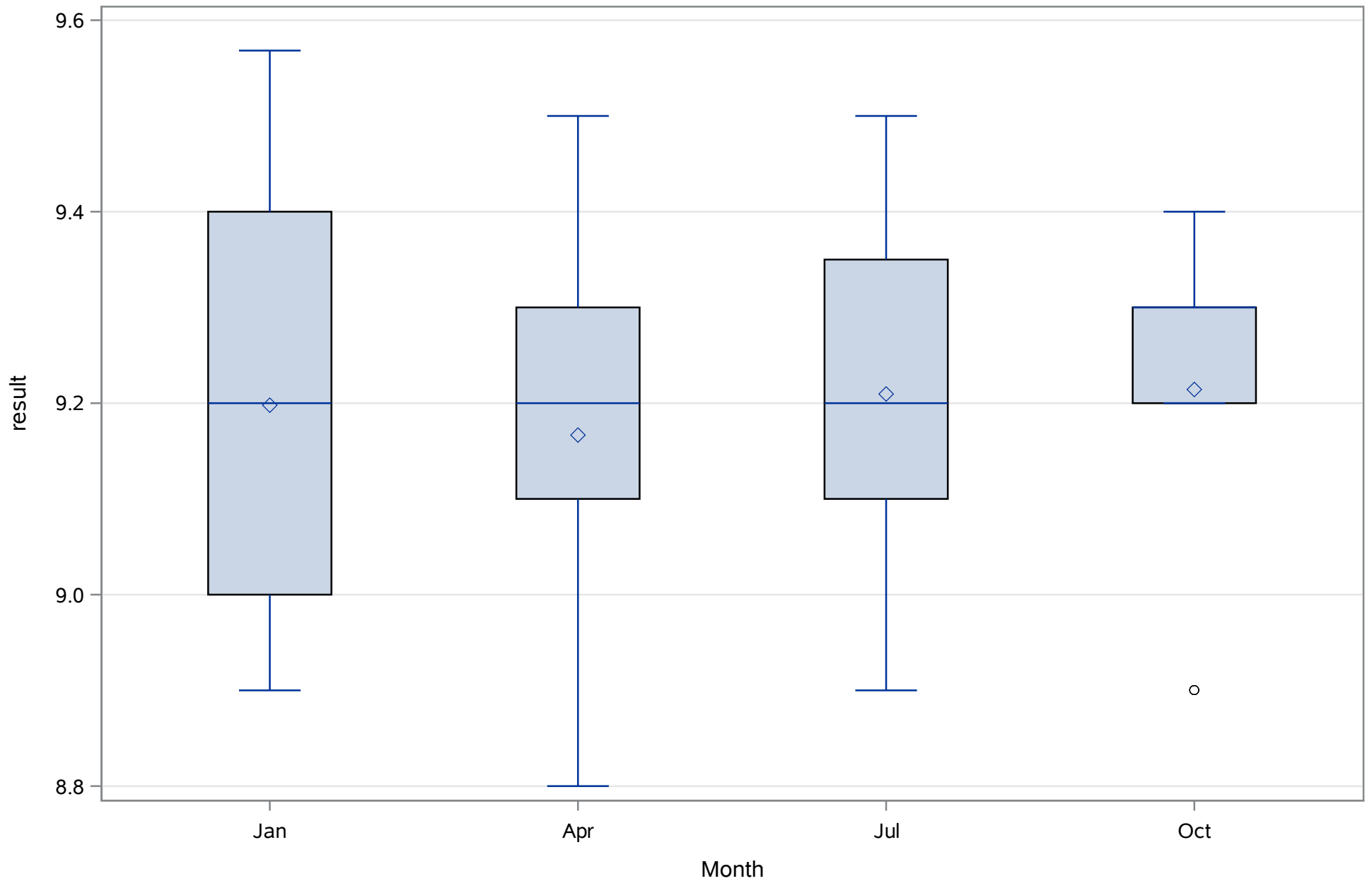
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Purge Volume (Total) Gallons



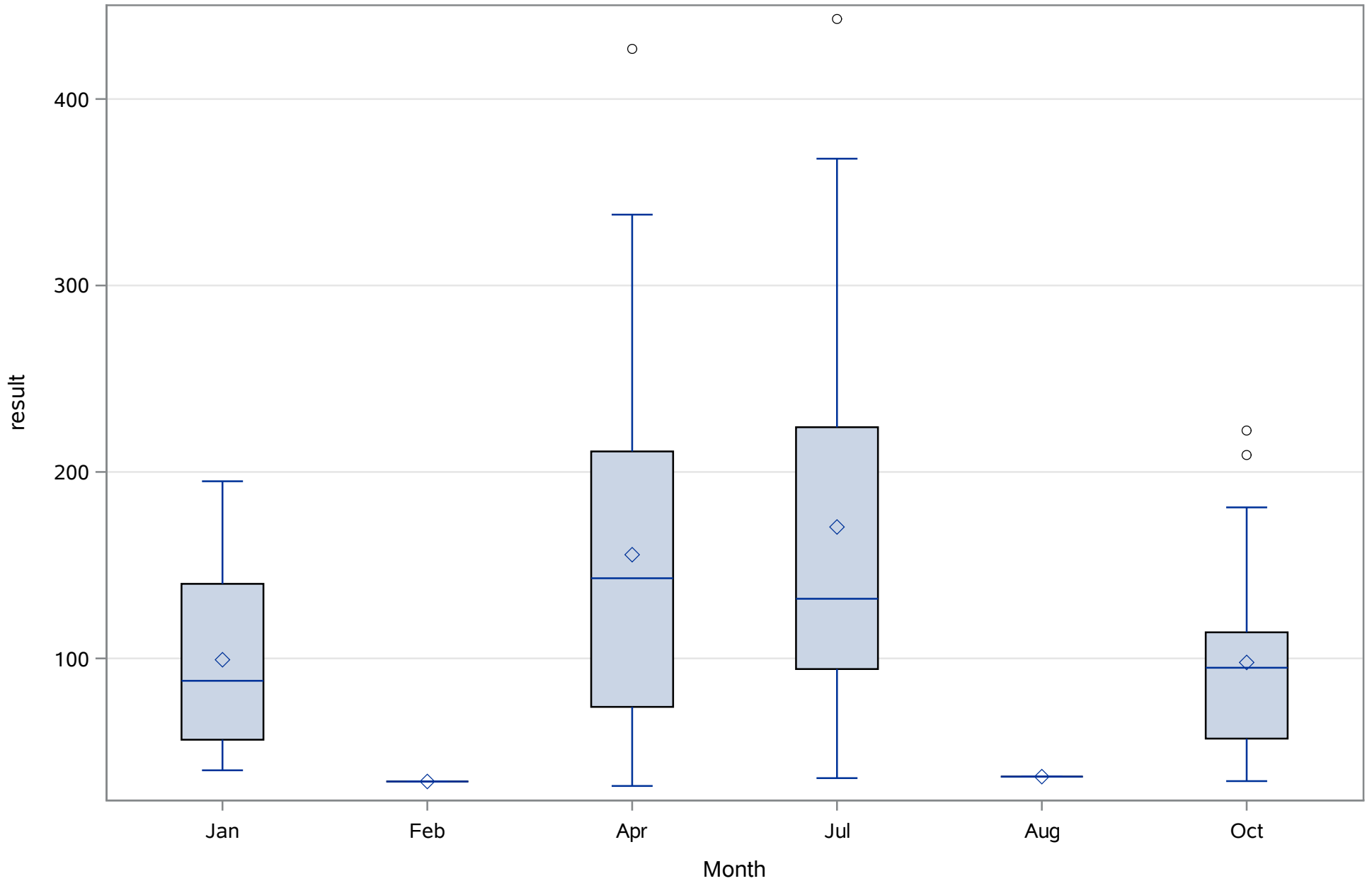
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Residues- Filterable (TDS) (Dissolved) mg/L



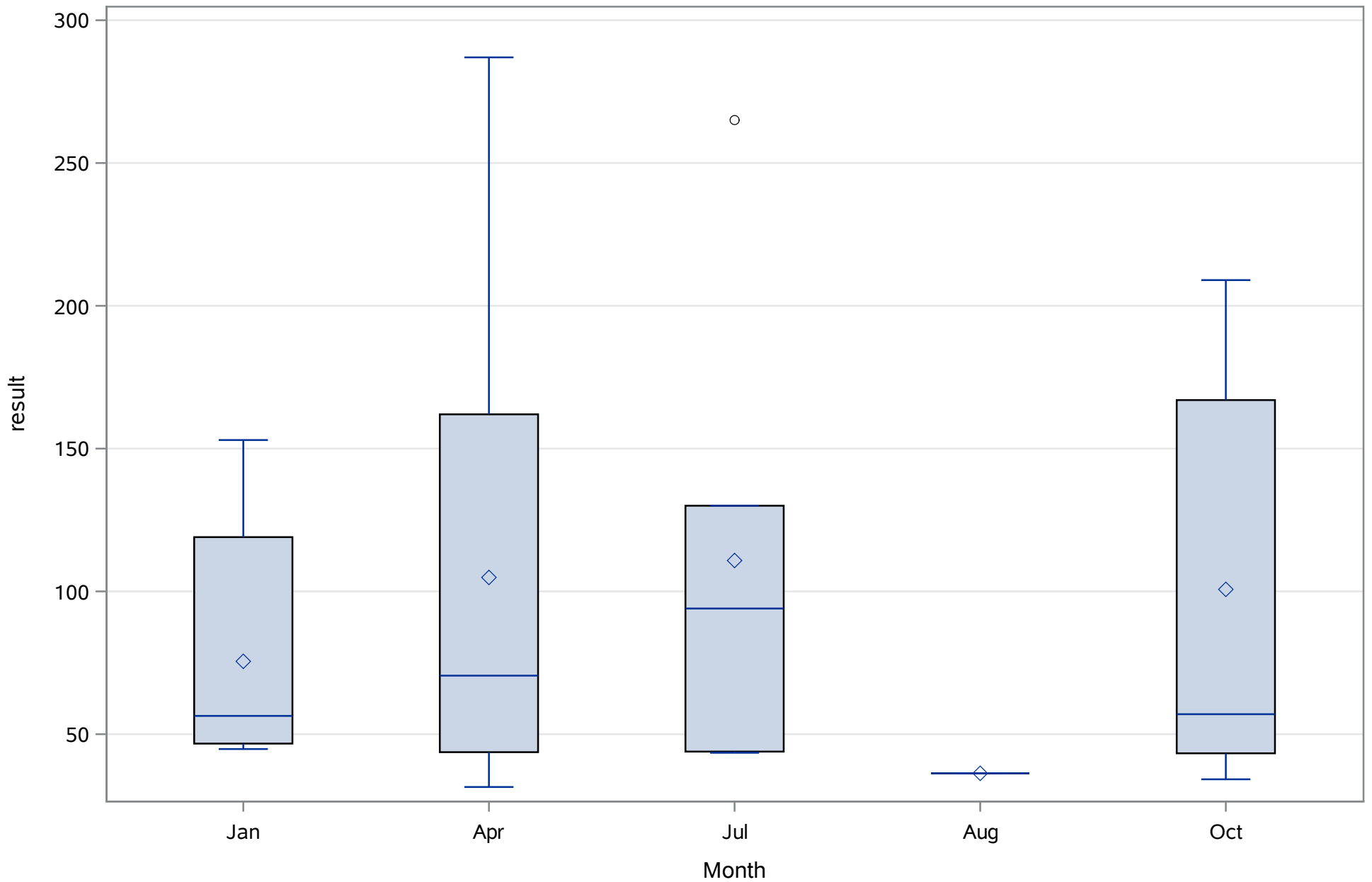
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Silica- Dissolved (Dissolved) mg/L



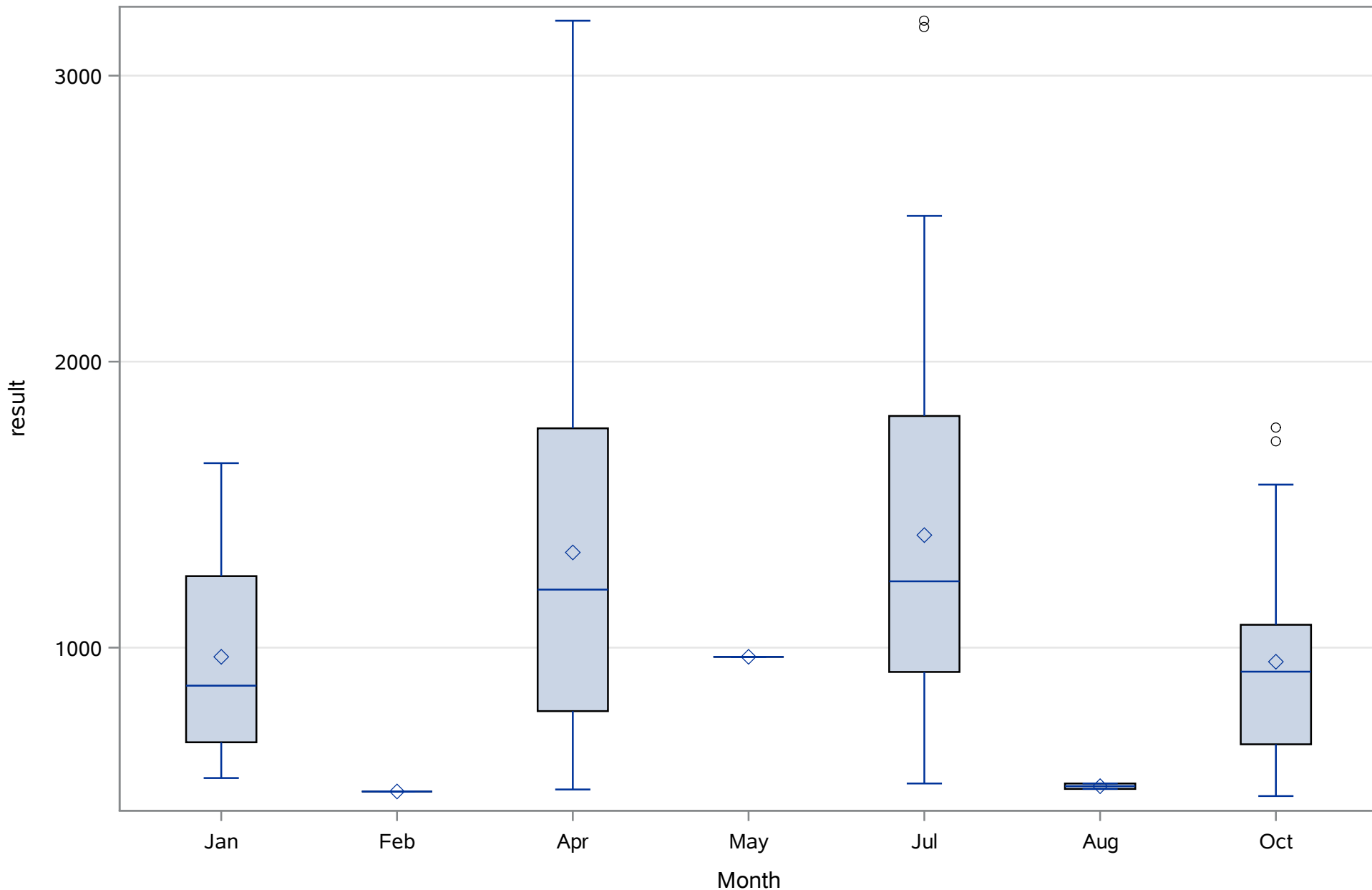
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Dissolved) mg/L



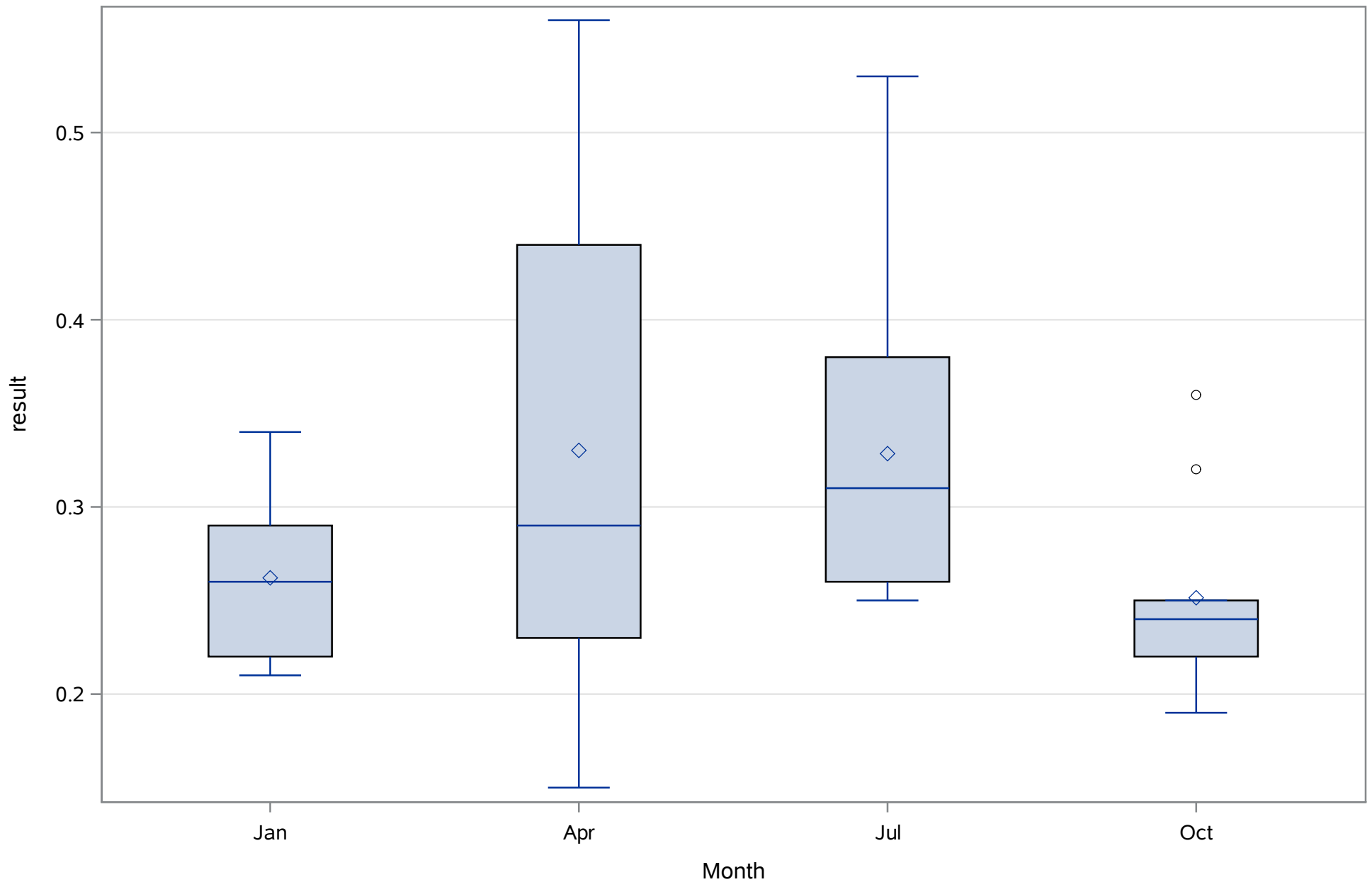
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sodium (Total) mg/L



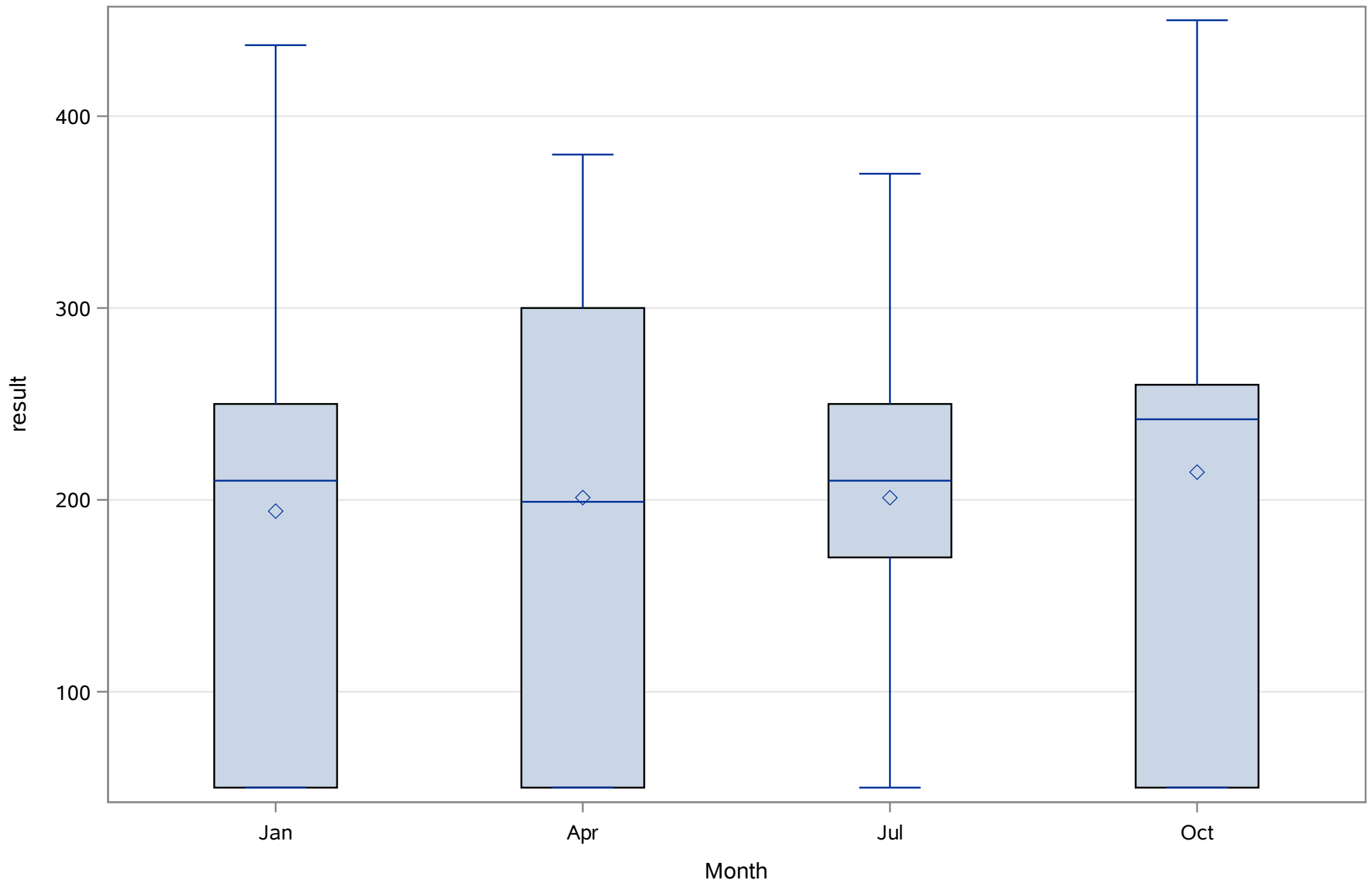
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Specific Conductance (Total) uS/cm



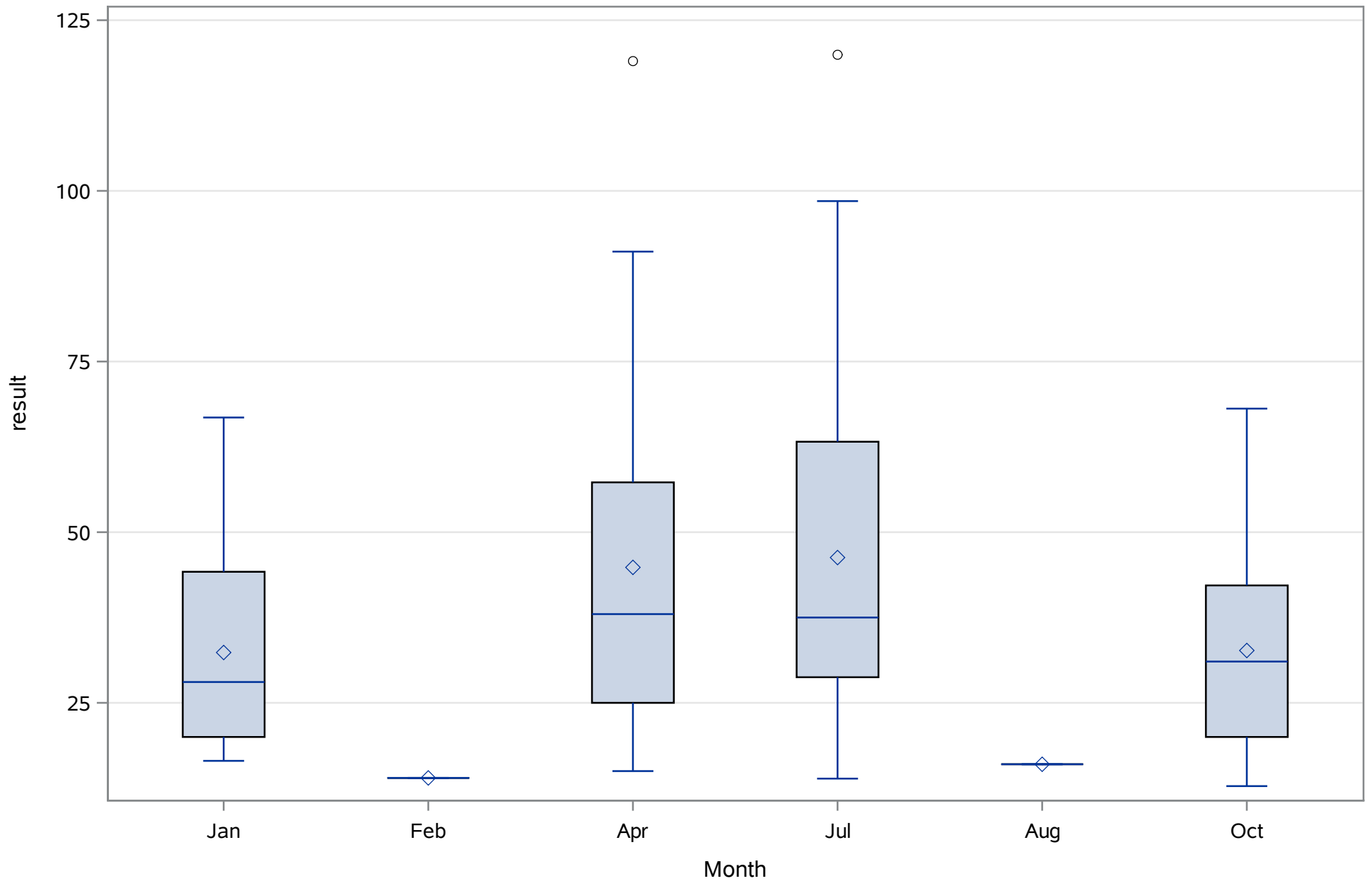
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) mg/L



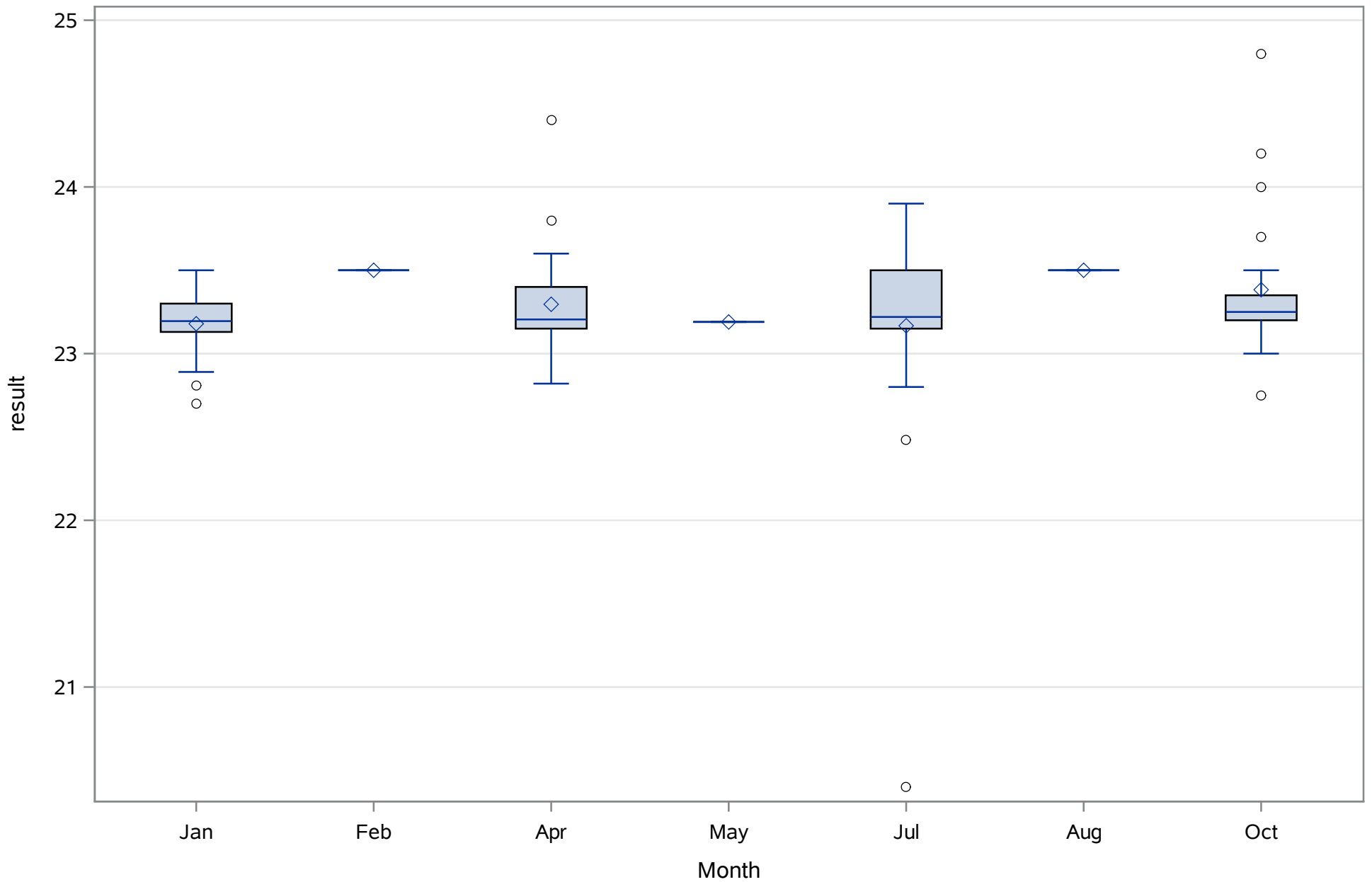
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Strontium (Dissolved) ug/L



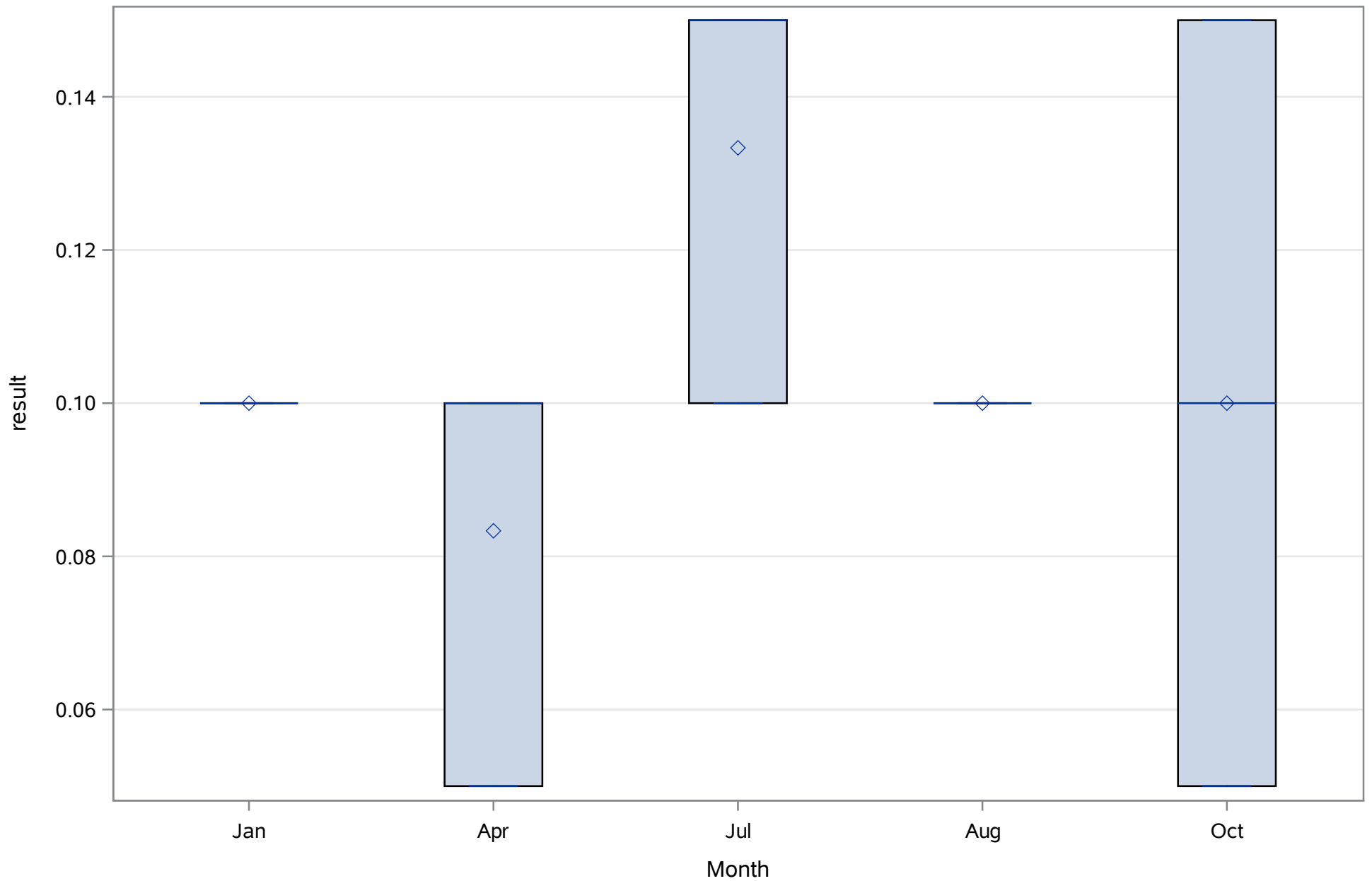
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Sulfate (Dissolved) mg/L



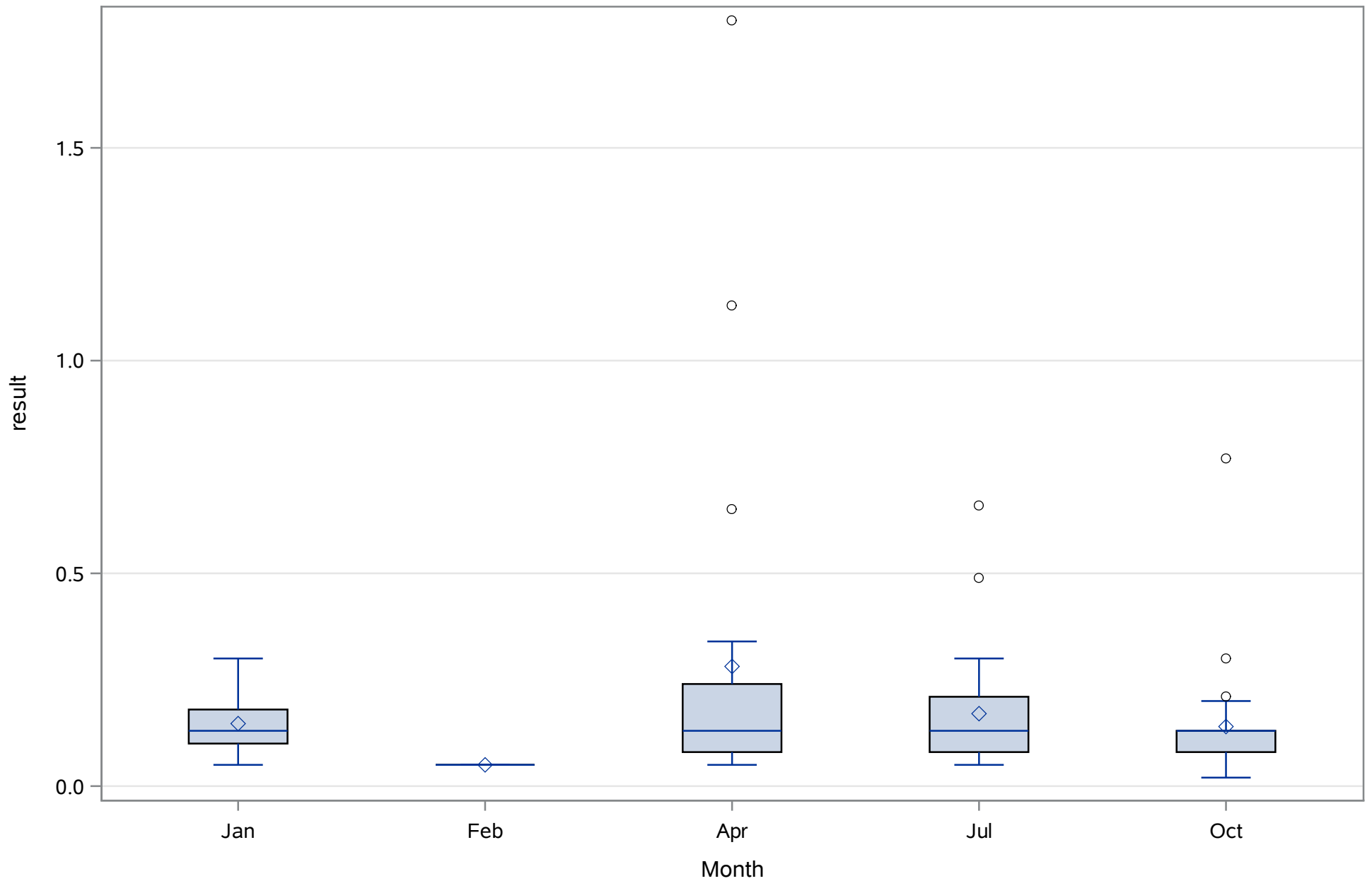
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Temperature (Total) Deg. C



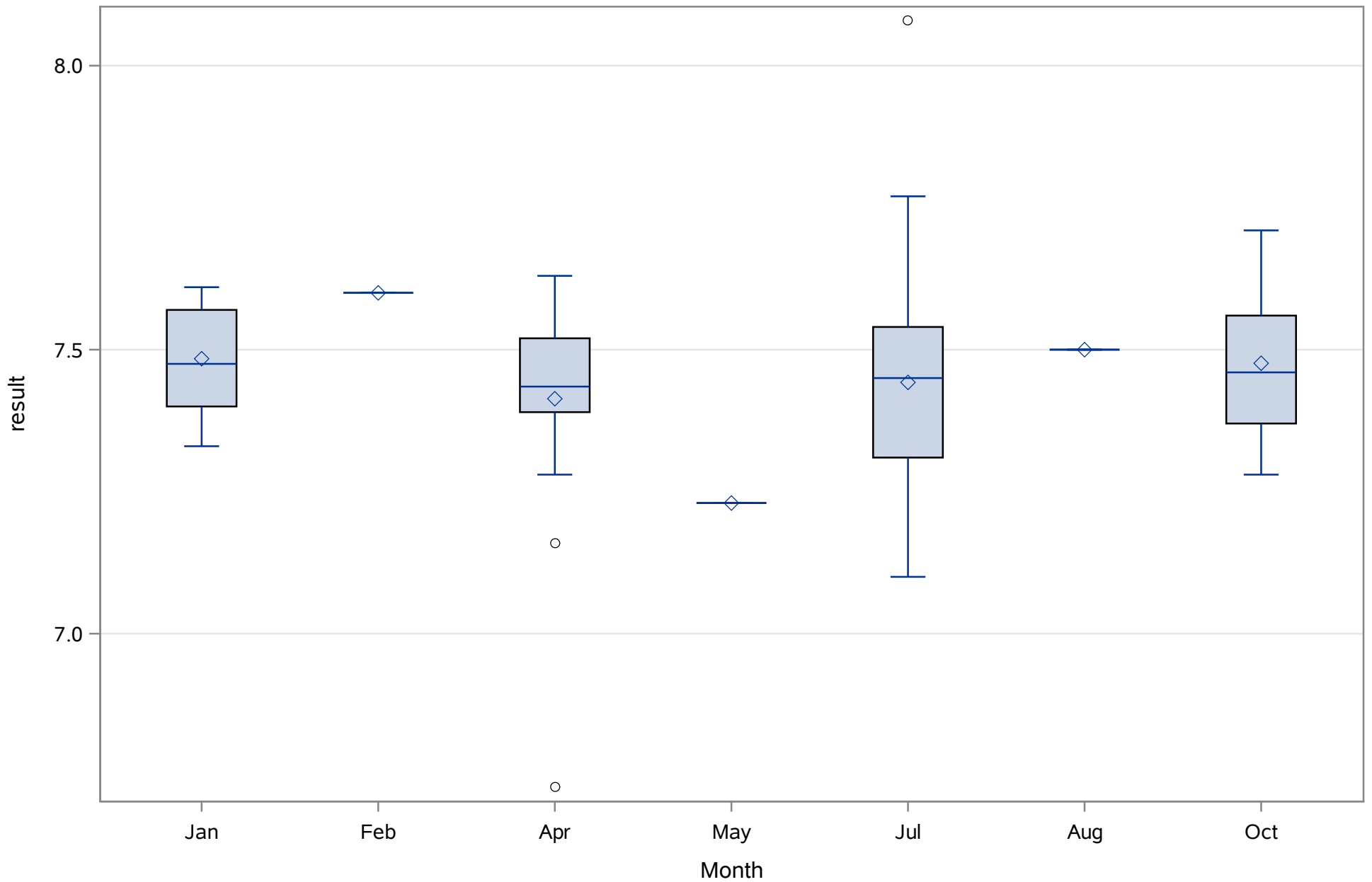
Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) FTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Chassahowitzka 1 Spring
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
1-Methylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
1-Methylphenanthrene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,3,5-Trimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2,6-Dimethylnaphthalene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
2-Methylnaphthalene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Acenaphthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Acenaphthylene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Alkalinity (Total)	mg/L	JUL1994	JUL2017	61	1.6%	0.0%	1.6%
Aluminum (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Ammonia (N) (Dissolved)	mg/L	JUL1994	JAN2010	35	8.6%	0.0%	5.7%
Ammonia (N) (Total)	mg/L	JAN2000	JUL2017	33	15.2%	0.0%	3.0%
Anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(a)anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(a)pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(b)fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(g,h,i)perylene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Benzo(k)fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Bicarbonate (Total)	mg/L	JUL1994	JAN2002	5	0.0%	0.0%	0.0%
Biphenyl	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Boron (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	JUL1994	JUL2017	67	1.5%	0.0%	0.0%
Calcium (Total)	mg/L	JAN1998	JAN2000	3	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	JUL1994	JUL2017	68	8.8%	0.0%	1.5%
Chloride (Dissolved)	mg/L	JUL1994	JUL2017	68	1.5%	0.0%	1.5%
Chrysene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Color (Dissolved)	PCU	APR2010	JUL2017	30	10.0%	0.0%	3.3%
Depth (Total)	Meters	JUL2007	JAN2010	6	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	JUL2008	JUL2008	1	0.0%	0.0%	100.0%
Dibenzo(a,h)anthracene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dibenzothiophene	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Dissolved Oxygen (Total)	mg/L	JAN2002	JUL2017	49	6.1%	0.0%	4.1%
Eh, Field (hydrogen electrode)	mV	JAN2002	JAN2002	1	0.0%	0.0%	100.0%
Fluoranthene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Fluorene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Fluoride (Dissolved)	mg/L	JUL1994	JUL2017	60	1.7%	0.0%	0.0%
Fluoride (Total)	mg/L	JUL1994	JAN2003	11	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	JAN1998	JAN2000	3	0.0%	0.0%	0.0%
Indeno(1,2,3-cd)pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Iron (Dissolved)	ug/L	JUL1994	JUL2017	68	8.8%	0.0%	2.9%
Magnesium (Dissolved)	mg/L	JUL1994	JUL2017	60	1.7%	0.0%	1.7%
Magnesium (Total)	mg/L	JUL1994	APR1997	7	0.0%	0.0%	0.0%
Manganese (Dissolved)	ug/L	JAN2013	JUL2017	19	0.0%	0.0%	0.0%
Naphthalene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Nitrate (N) (Dissolved)	mg/L	JUL1994	JAN2005	15	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	FEB1996	JAN2000	6	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	JUL1994	JAN2010	34	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2002	JUL2017	31	0.0%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	OCT1994	JAN2010	26	11.5%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	JAN1998	JUL2017	33	3.0%	0.0%	6.1%
Nitrogen- Organic (Dissolved)	mg/L	JUL1994	APR1997	6	0.0%	0.0%	0.0%
Nitrogen- Total (Dissolved)	mg/L	JAN2003	OCT2009	15	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN1998	JUL2017	38	5.3%	0.0%	5.3%
Nitrogen- Total Kjeldahl (Total)	mg/L	JUL1994	JAN2010	8	0.0%	0.0%	0.0%
Nitrogen15/Nitrogen14 Isotope Ratio	per mil	JUL2005	JUL2005	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	JUL1994	JUL2017	68	5.9%	0.0%	2.9%
Phenanthrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Phosphorus- Total (Total)	mg/L	JUL1994	JUL2017	68	5.9%	0.0%	2.9%
Potassium (Dissolved)	mg/L	JUL1994	JUL2017	60	1.7%	0.0%	1.7%
Potassium (Total)	mg/L	JUL1994	JAN1999	9	0.0%	0.0%	0.0%
Purge Volume (Total)	Gallons	JAN2002	JUL2007	8	0.0%	0.0%	0.0%
Pyrene (Total)	ug/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	JUL1994	JUL2017	65	6.2%	0.0%	1.5%
Silica- Dissolved (Dissolved)	mg/L	JAN2002	JUL2017	50	2.0%	0.0%	2.0%
Sodium (Dissolved)	mg/L	JUL1994	JUL2017	60	1.7%	0.0%	1.7%
Sodium (Total)	mg/L	JUL1994	JAN2000	10	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	JUL1994	JUL2017	114	1.8%	1.8%	0.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Strontium (Dissolved)	mg/L	JUL2005	JUL2017	45	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	JAN1997	JAN2005	10	90.0%	0.0%	20.0%
Strontium (Total)	ug/L	FEB1996	JAN2000	6	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	JUL1994	JUL2017	68	2.9%	0.0%	1.5%
Temperature (Total)	Deg. C	JUL1994	JUL2017	61	1.6%	0.0%	1.6%
Total Recoverable Pet. Hydrocarbons	mg/L	MAY2010	MAY2010	1	0.0%	0.0%	100.0%
Turbidity (Total)	NTU	JUL1994	JUL2017	68	8.8%	0.0%	4.4%
Uranium (234/238) Isotope Ratio	Ratio	APR1995	APR1995	1	0.0%	0.0%	100.0%
Uranium (Total)	ug/L	APR1995	APR1995	1	0.0%	0.0%	100.0%
pH (Total)	SU	JUL1994	JUL2017	61	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	149.094426	Sum Observations	9094.76
Std Deviation	20.2638486	Variance	410.623562
Skewness	-6.7016696	Kurtosis	49.4218898
Uncorrected SS	1380615.44	Corrected SS	24637.4137
Coeff Variation	13.5912852	Std Error Mean	2.59451996

Basic Statistical Measures			
Location		Variability	
Mean	149.0944	Std Deviation	20.26385
Median	151.8000	Variance	410.62356
Mode	143.0000	Range	162.20000
		Interquartile Range	8.90000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	57.46513	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	163.2
99%	163.2
95%	160.6
90%	159.2
75% Q3	156.2
50% Median	151.8
25% Q1	147.3
10%	143.0
5%	139.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	13	159.8	49
135	9	160.6	48
137	6	160.7	42
139	11	161.4	50
142	10	163.2	41

Chassahowitzka River - Fixed Station

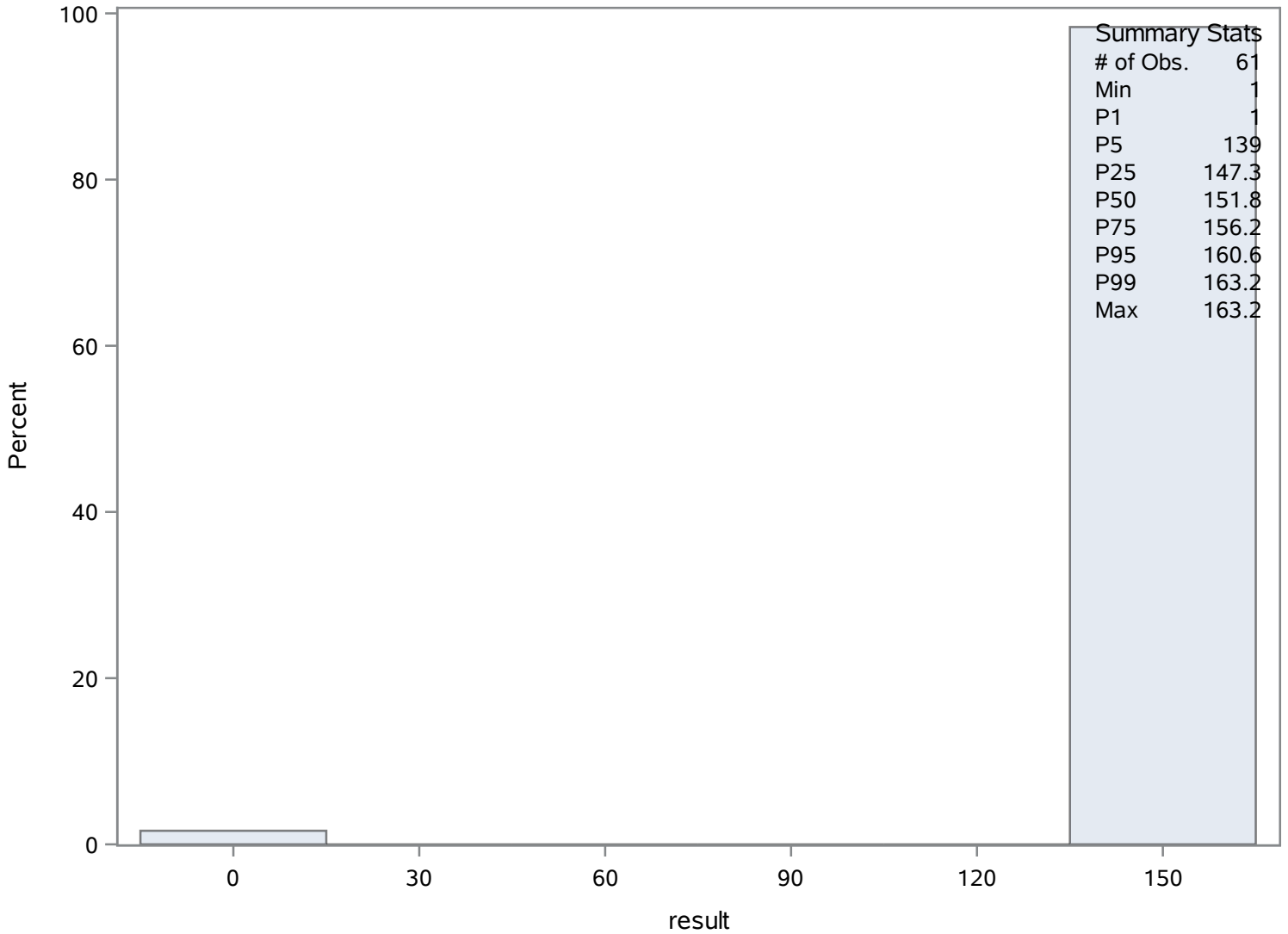
Source: Springs Data

Ruth Spring

Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	35	Sum Weights	35
Mean	0.01647429	Sum Observations	0.5766
Std Deviation	0.02594637	Variance	0.00067321
Skewness	3.71448502	Kurtosis	13.2259919
Uncorrected SS	0.03238836	Corrected SS	0.02288929
Coeff Variation	157.4962	Std Error Mean	0.00438574

Basic Statistical Measures			
Location		Variability	
Mean	0.016474	Std Deviation	0.02595
Median	0.010000	Variance	0.0006732
Mode	0.010000	Range	0.11500
		Interquartile Range	0.00400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.756332	Pr > t 	0.0006
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.120
99%	0.120
95%	0.116
90%	0.024
75% Q3	0.012
50% Median	0.010
25% Q1	0.008
10%	0.005
5%	0.005
1%	0.005
0% Min	0.005

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Dissolved) mg/L

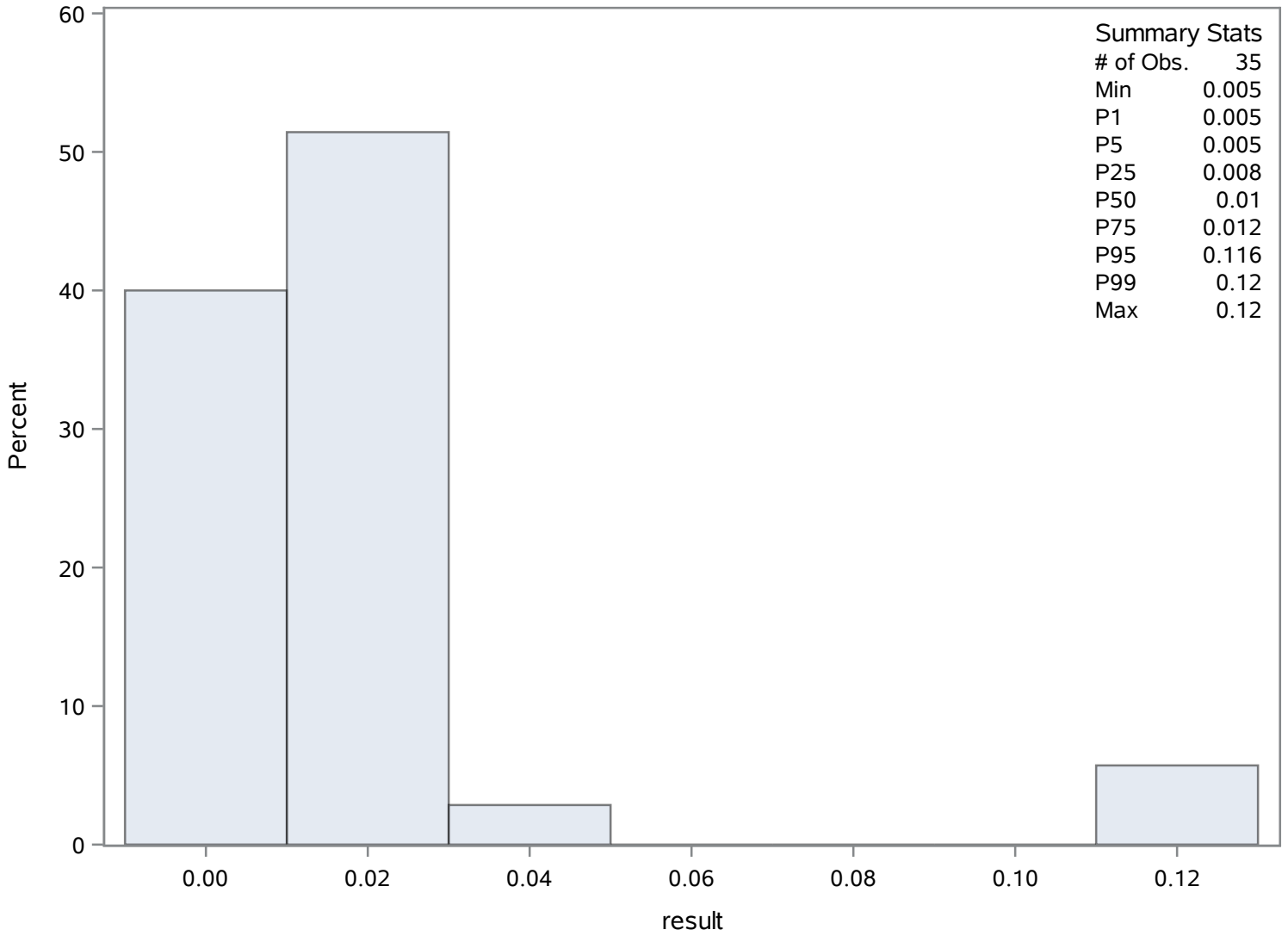
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	90	0.018	75
0.005	89	0.024	87
0.005	86	0.031	77
0.005	84	0.116	63
0.005	83	0.120	62

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	33	Sum Weights	33
Mean	0.01085455	Sum Observations	0.3582
Std Deviation	0.00430386	Variance	0.00001852
Skewness	3.60284002	Kurtosis	15.3808567
Uncorrected SS	0.00448084	Corrected SS	0.00059274
Coeff Variation	39.6502704	Std Error Mean	0.00074921

Basic Statistical Measures			
Location		Variability	
Mean	0.010855	Std Deviation	0.00430
Median	0.010000	Variance	0.0000185
Mode	0.010000	Range	0.02400
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.48808	Pr > t 	<.0001
Sign	M	16.5	Pr >= M 	<.0001
Signed Rank	S	280.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.031
99%	0.031
95%	0.018
90%	0.015
75% Q3	0.010
50% Median	0.010
25% Q1	0.010
10%	0.008
5%	0.007
1%	0.007
0% Min	0.007

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.007	104	0.0100	129
0.007	103	0.0150	118
0.007	102	0.0172	128
0.008	101	0.0180	97
0.008	100	0.0310	99

Chassahowitzka River - Fixed Station

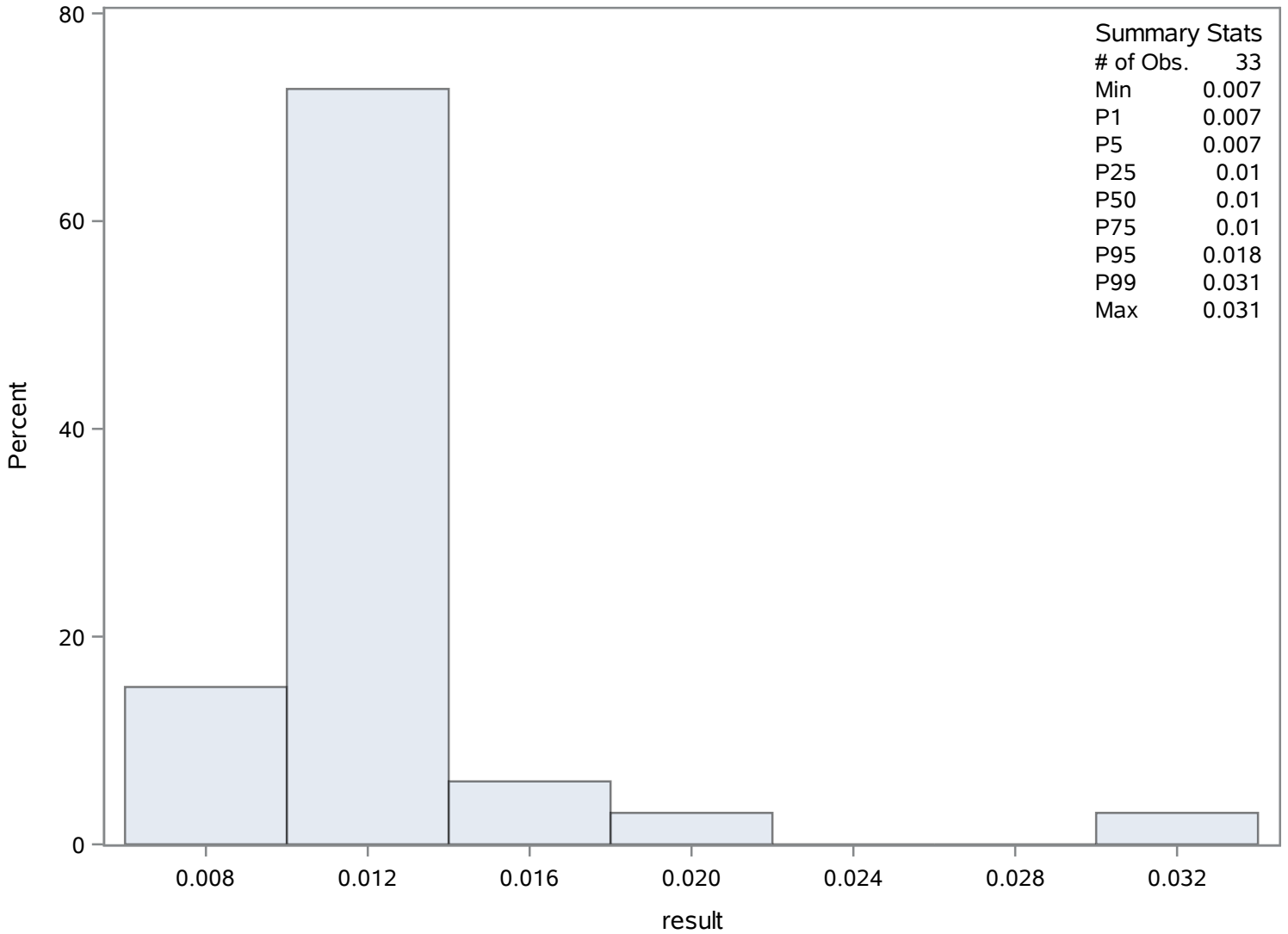
Source: Springs Data

Ruth Spring

Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	67	Sum Weights	67
Mean	87.0644776	Sum Observations	5833.32
Std Deviation	25.2632047	Variance	638.229513
Skewness	0.96820168	Kurtosis	0.37910245
Uncorrected SS	549998.106	Corrected SS	42123.1479
Coeff Variation	29.0166615	Std Error Mean	3.08639168

Basic Statistical Measures			
Location		Variability	
Mean	87.0645	Std Deviation	25.26320
Median	80.2000	Variance	638.22951
Mode	114.0000	Range	104.80000
		Interquartile Range	42.08000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.20915	Pr > t 	<.0001
Sign	M	33.5	Pr >= M 	<.0001
Signed Rank	S	1139	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	162.00
99%	162.00
95%	144.00
90%	117.00
75% Q3	108.00
50% Median	80.20
25% Q1	65.92
10%	60.00
5%	59.00
1%	57.20
0% Min	57.20

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
57.2	151	133	154
58.0	141	144	156
58.0	140	145	163
59.0	133	147	175
59.0	132	162	195

Chassahowitzka River - Fixed Station

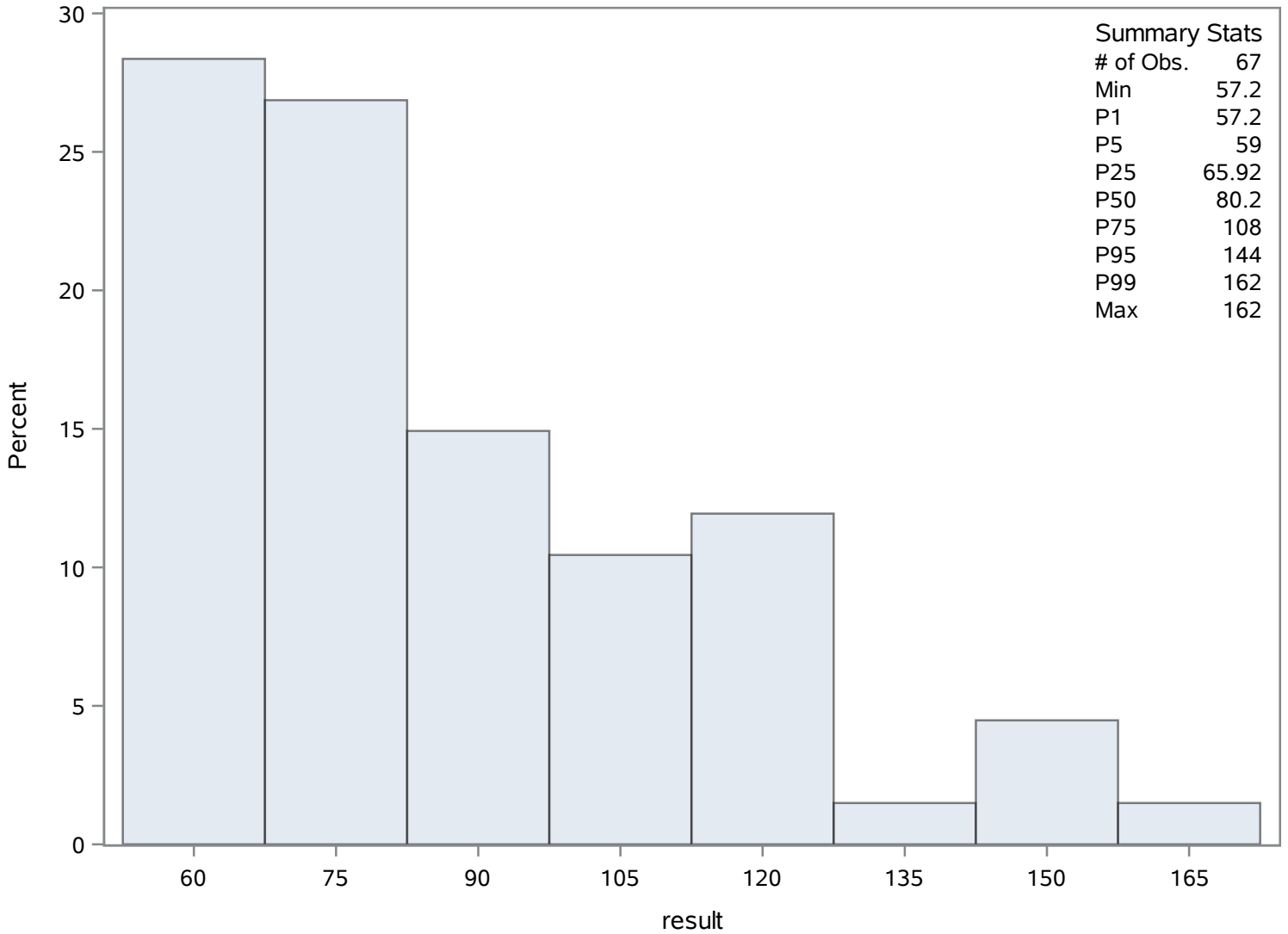
Source: Springs Data

Ruth Spring

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	1.35542647	Sum Observations	92.169
Std Deviation	1.09021353	Variance	1.18856553
Skewness	1.70658923	Kurtosis	2.47931799
Uncorrected SS	204.562193	Corrected SS	79.6338906
Coeff Variation	80.4332474	Std Error Mean	0.13220781

Basic Statistical Measures			
Location		Variability	
Mean	1.355426	Std Deviation	1.09021
Median	0.890000	Variance	1.18857
Mode	0.600000	Range	4.74000
		Interquartile Range	0.98500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.25224	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.040
99%	5.040
95%	4.100
90%	2.990
75% Q3	1.630
50% Median	0.890
25% Q1	0.645
10%	0.490
5%	0.380
1%	0.300
0% Min	0.300

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Carbon- Total Organic (Total) mg/L

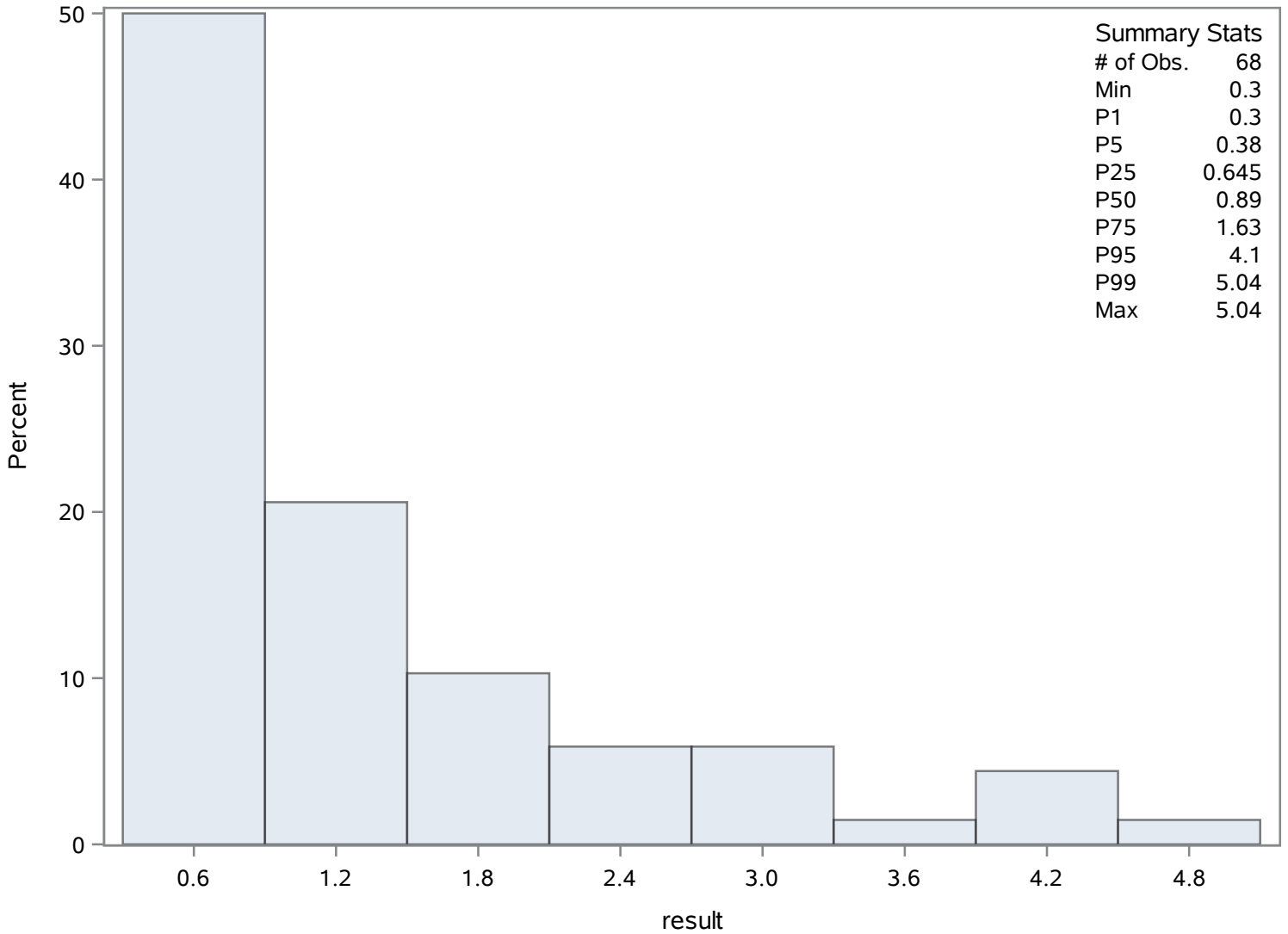
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	219	3.74	240
0.30	214	4.10	218
0.30	209	4.39	201
0.38	247	4.39	202
0.38	242	5.04	244

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	1399.12838	Sum Observations	95140.73
Std Deviation	995.604729	Variance	991228.777
Skewness	1.29228908	Kurtosis	1.0901382
Uncorrected SS	199526424	Corrected SS	66412328.1
Coeff Variation	71.1589259	Std Error Mean	120.734808

Basic Statistical Measures			
Location		Variability	
Mean	1399.128	Std Deviation	995.60473
Median	1025.000	Variance	991229
Mode	1320.000	Range	4169
		Interquartile Range	1581

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.58844	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4600.0
99%	4600.0
95%	3790.0
90%	2640.0
75% Q3	2190.0
50% Median	1025.0
25% Q1	609.5
10%	554.0
5%	435.0
1%	431.0
0% Min	431.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Chloride (Dissolved) mg/L

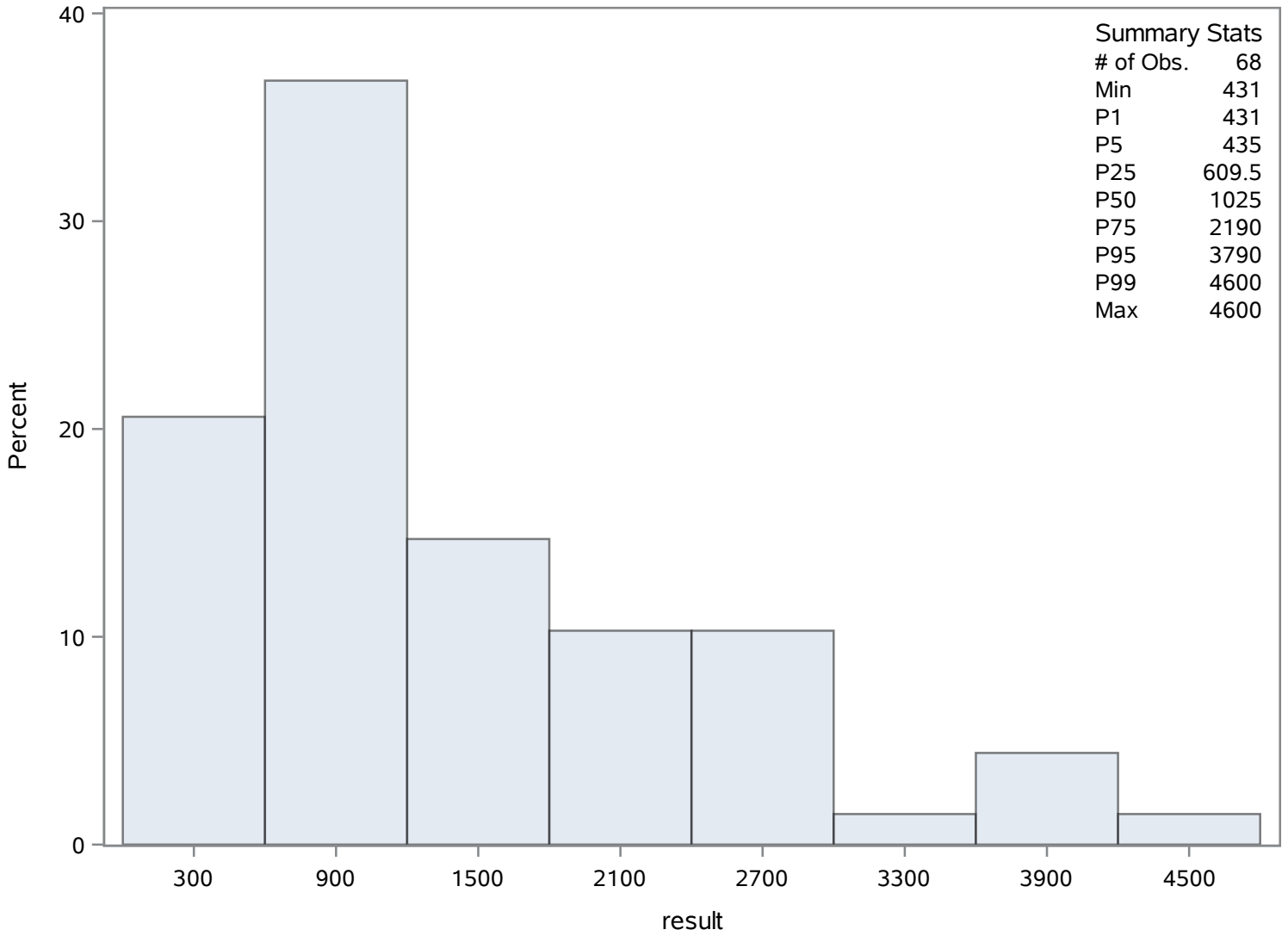
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
431.00	274	3050	290
431.00	273	3790	299
435.00	270	3880	292
435.00	269	3910	311
451.28	287	4600	331

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	30	Sum Weights	30
Mean	7.37333333	Sum Observations	221.2
Std Deviation	7.98835071	Variance	63.8137471
Skewness	2.56843282	Kurtosis	7.08727671
Uncorrected SS	3481.58	Corrected SS	1850.59867
Coeff Variation	108.341104	Std Error Mean	1.45846663

Basic Statistical Measures			
Location		Variability	
Mean	7.373333	Std Deviation	7.98835
Median	4.200000	Variance	63.81375
Mode	3.800000	Range	36.20000
		Interquartile Range	3.80000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	5.055538	Pr > t 	<.0001
Sign	M	15	Pr >= M 	<.0001
Signed Rank	S	232.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	37.9
99%	37.9
95%	24.3
90%	18.0
75% Q3	7.0
50% Median	4.2
25% Q1	3.2
10%	2.3
5%	1.8

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.7
0% Min	1.7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.7	340	14.3	351
1.8	345	14.6	354
2.0	335	21.4	346
2.6	344	24.3	338
2.7	336	37.9	342

Chassahowitzka River - Fixed Station

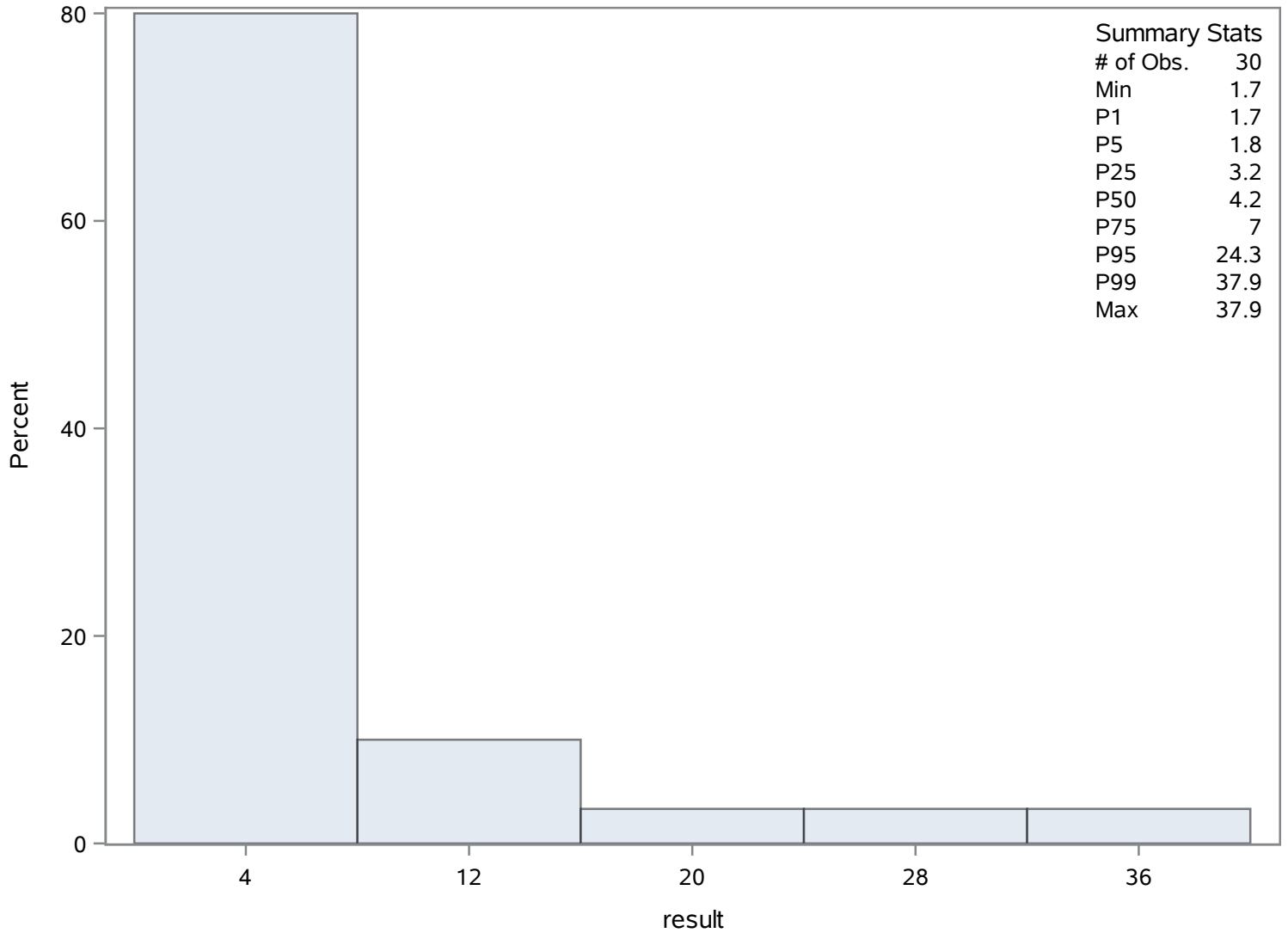
Source: Springs Data

Ruth Spring

Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	49	Sum Weights	49
Mean	2.86061224	Sum Observations	140.17
Std Deviation	0.68403036	Variance	0.46789753
Skewness	1.54322133	Kurtosis	3.06480002
Uncorrected SS	423.4311	Corrected SS	22.4590816
Coeff Variation	23.9120266	Std Error Mean	0.09771862

Basic Statistical Measures			
Location		Variability	
Mean	2.860612	Std Deviation	0.68403
Median	2.740000	Variance	0.46790
Mode	2.270000	Range	3.38000
		Interquartile Range	0.75000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.27397	Pr > t 	<.0001
Sign	M	24.5	Pr >= M 	<.0001
Signed Rank	S	612.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.10
99%	5.10
95%	4.58
90%	3.49
75% Q3	3.15
50% Median	2.74
25% Q1	2.40
10%	2.19
5%	2.16
1%	1.72
0% Min	1.72

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Dissolved Oxygen (Total) mg/L

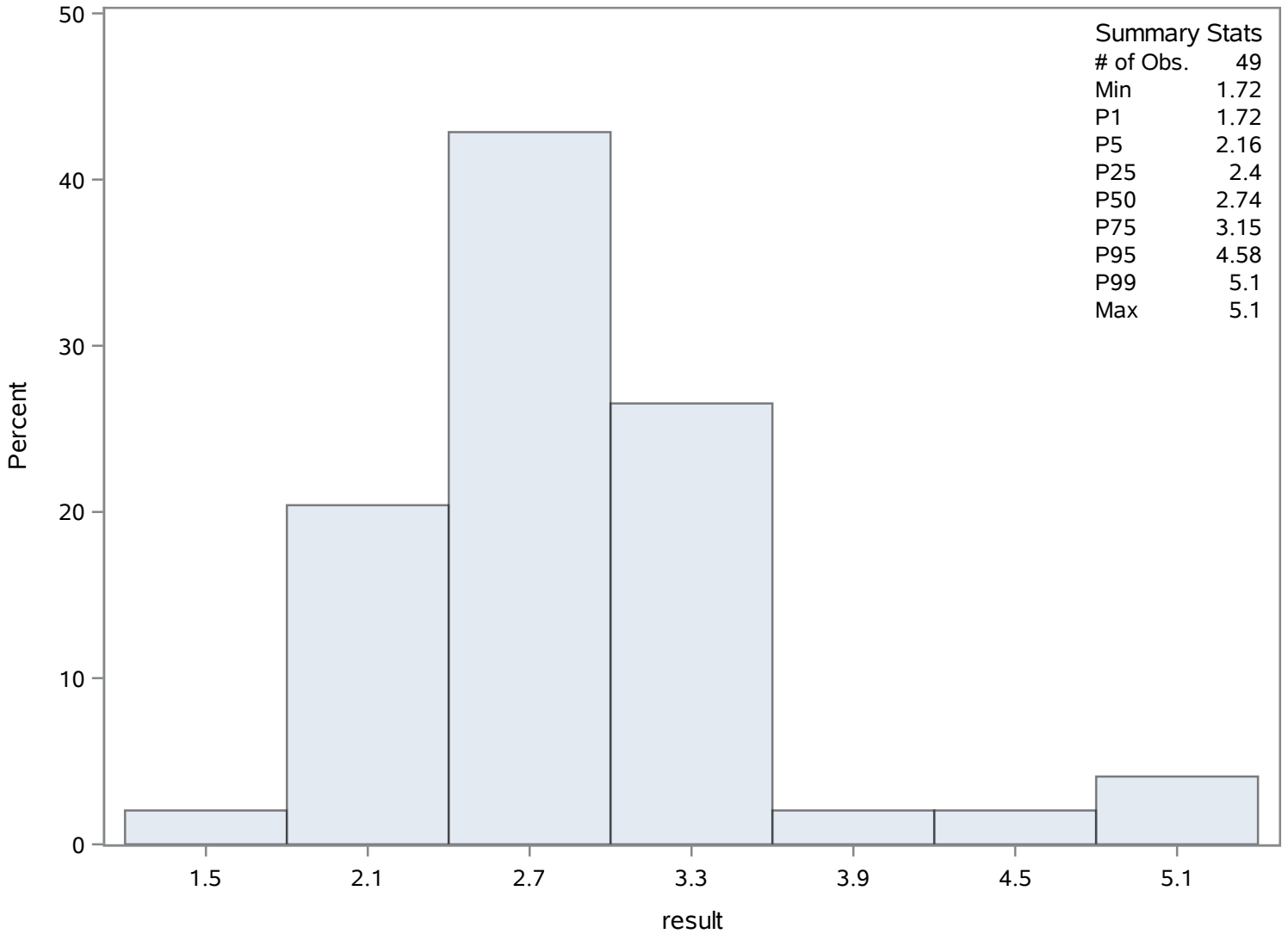
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.72	410	3.49	393
2.05	395	4.00	389
2.16	369	4.58	398
2.18	374	4.93	394
2.19	377	5.10	397

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	0.14155	Sum Observations	8.493
Std Deviation	0.02432786	Variance	0.00059184
Skewness	0.16215473	Kurtosis	0.85212034
Uncorrected SS	1.237103	Corrected SS	0.03491885
Coeff Variation	17.1867629	Std Error Mean	0.00314071

Basic Statistical Measures			
Location		Variability	
Mean	0.141550	Std Deviation	0.02433
Median	0.140000	Variance	0.0005918
Mode	0.140000	Range	0.12000
		Interquartile Range	0.02000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	45.06938	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.2000
99%	0.2000
95%	0.1900
90%	0.1750
75% Q3	0.1500
50% Median	0.1400
25% Q1	0.1300
10%	0.1200
5%	0.1045
1%	0.0800
0% Min	0.0800

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Fluoride (Dissolved) mg/L

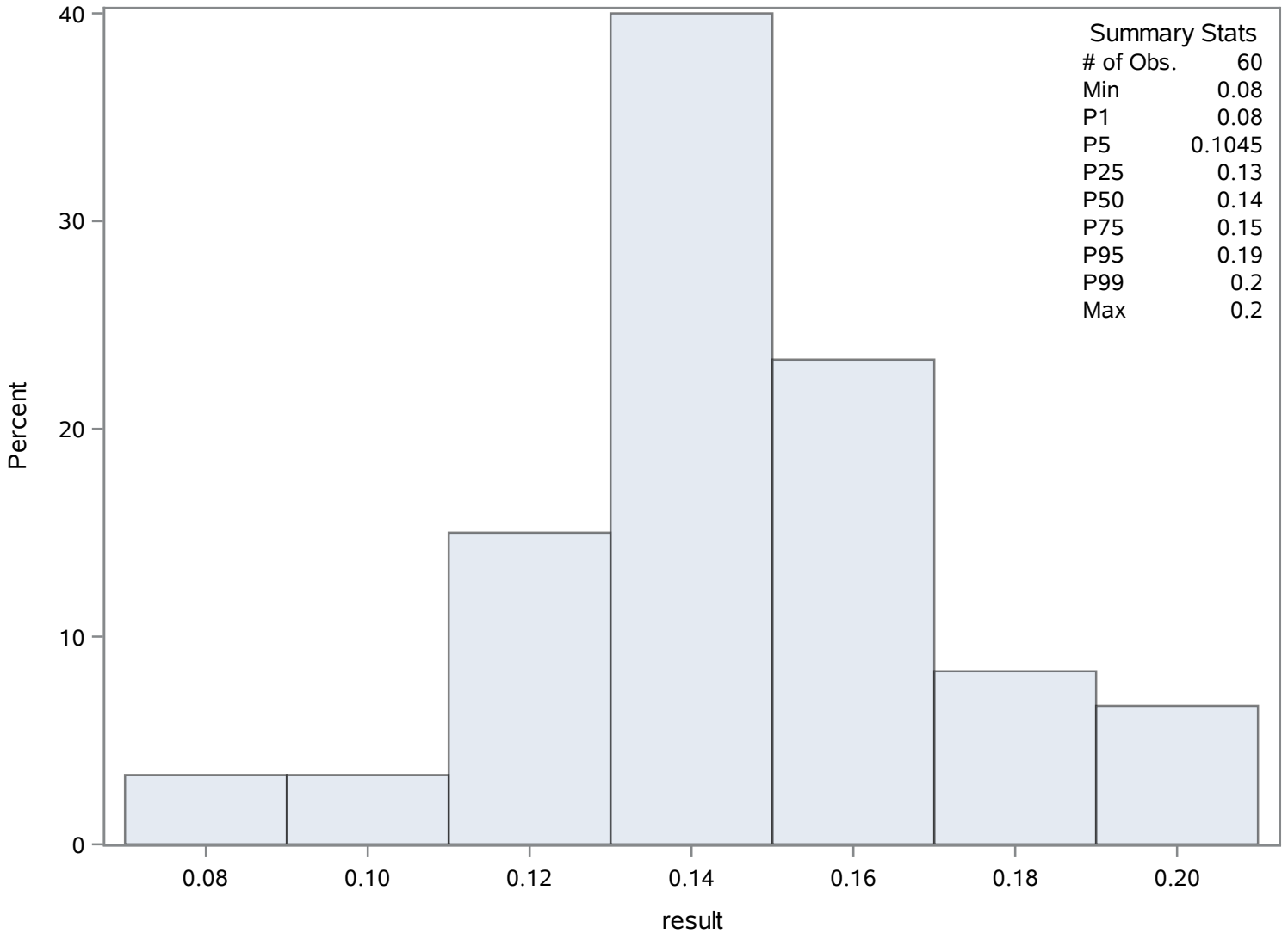
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.080	427	0.180	433
0.080	426	0.190	431
0.104	419	0.190	450
0.105	414	0.198	418
0.110	423	0.200	470

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Fluoride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	23.1141176	Sum Observations	1571.76
Std Deviation	18.307598	Variance	335.168144
Skewness	1.66601101	Kurtosis	3.06281006
Uncorrected SS	58786.1112	Corrected SS	22456.2656
Coeff Variation	79.2052644	Std Error Mean	2.22012236

Basic Statistical Measures			
Location		Variability	
Mean	23.11412	Std Deviation	18.30760
Median	15.70000	Variance	335.16814
Mode	12.50000	Range	83.50000
		Interquartile Range	18.35000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.41119	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	86.00
99%	86.00
95%	67.00
90%	40.00
75% Q3	30.60
50% Median	15.70
25% Q1	12.25
10%	5.91
5%	3.96
1%	2.50
0% Min	2.50

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.50	506	58.2	495
3.42	518	67.0	484
3.76	517	67.0	485
3.96	513	86.0	480
5.60	537	86.0	481

Chassahowitzka River - Fixed Station

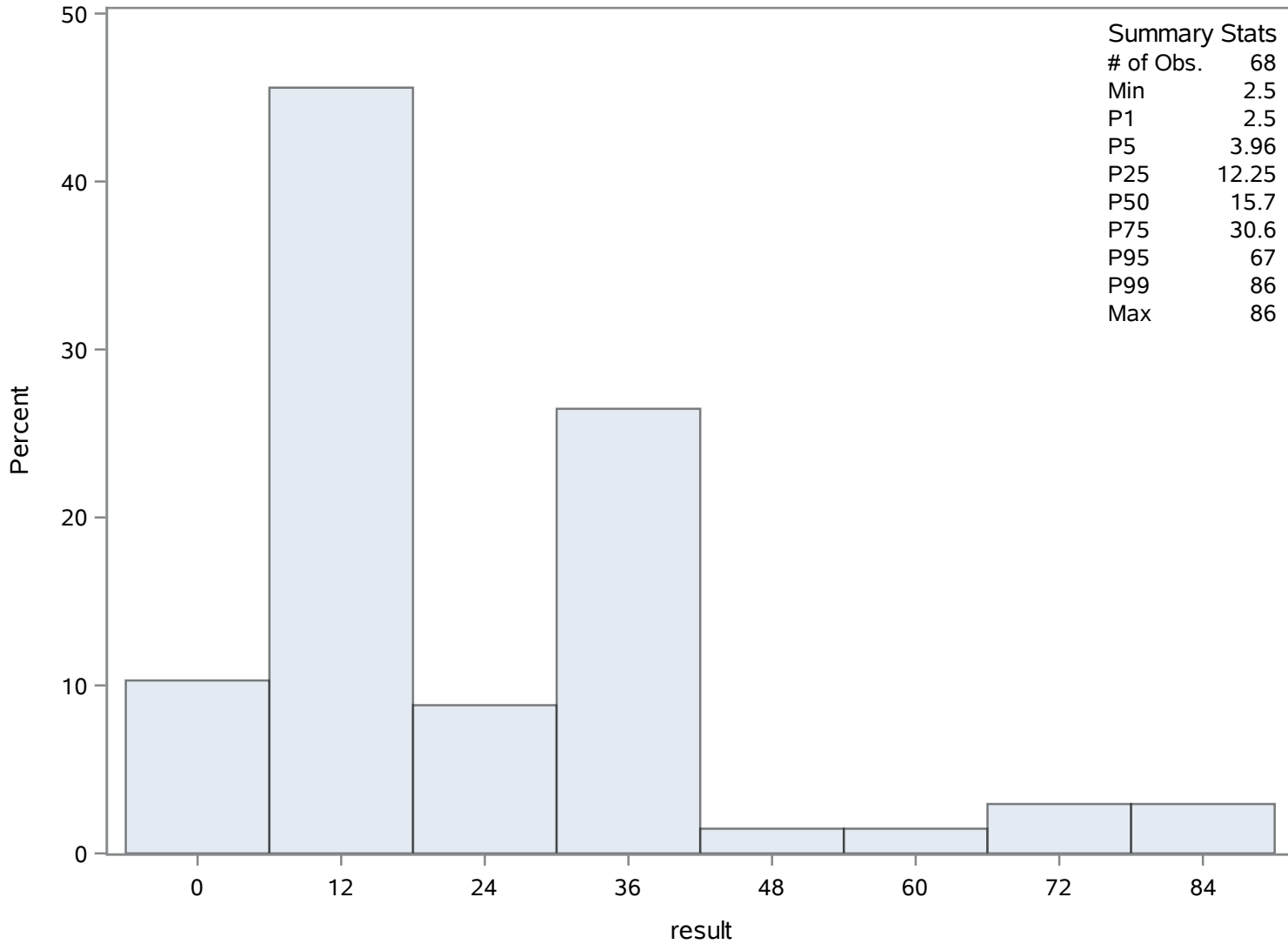
Source: Springs Data

Ruth Spring

Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	103.453833	Sum Observations	6207.23
Std Deviation	65.8181518	Variance	4332.0291
Skewness	1.14471456	Kurtosis	0.63814147
Uncorrected SS	897751.455	Corrected SS	255589.717
Coeff Variation	63.6207955	Std Error Mean	8.49708686

Basic Statistical Measures			
Location		Variability	
Mean	103.4538	Std Deviation	65.81815
Median	76.9500	Variance	4332
Mode	61.2000	Range	266.20000
		Interquartile Range	103.70000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.17521	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	303.00
99%	303.00
95%	254.00
90%	180.50
75% Q3	153.50
50% Median	76.95
25% Q1	49.80
10%	42.30
5%	38.90
1%	36.80
0% Min	36.80

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
36.8	554	203	557
37.0	542	253	566
38.8	553	255	578
39.0	544	259	559
40.7	547	303	598

Chassahowitzka River - Fixed Station

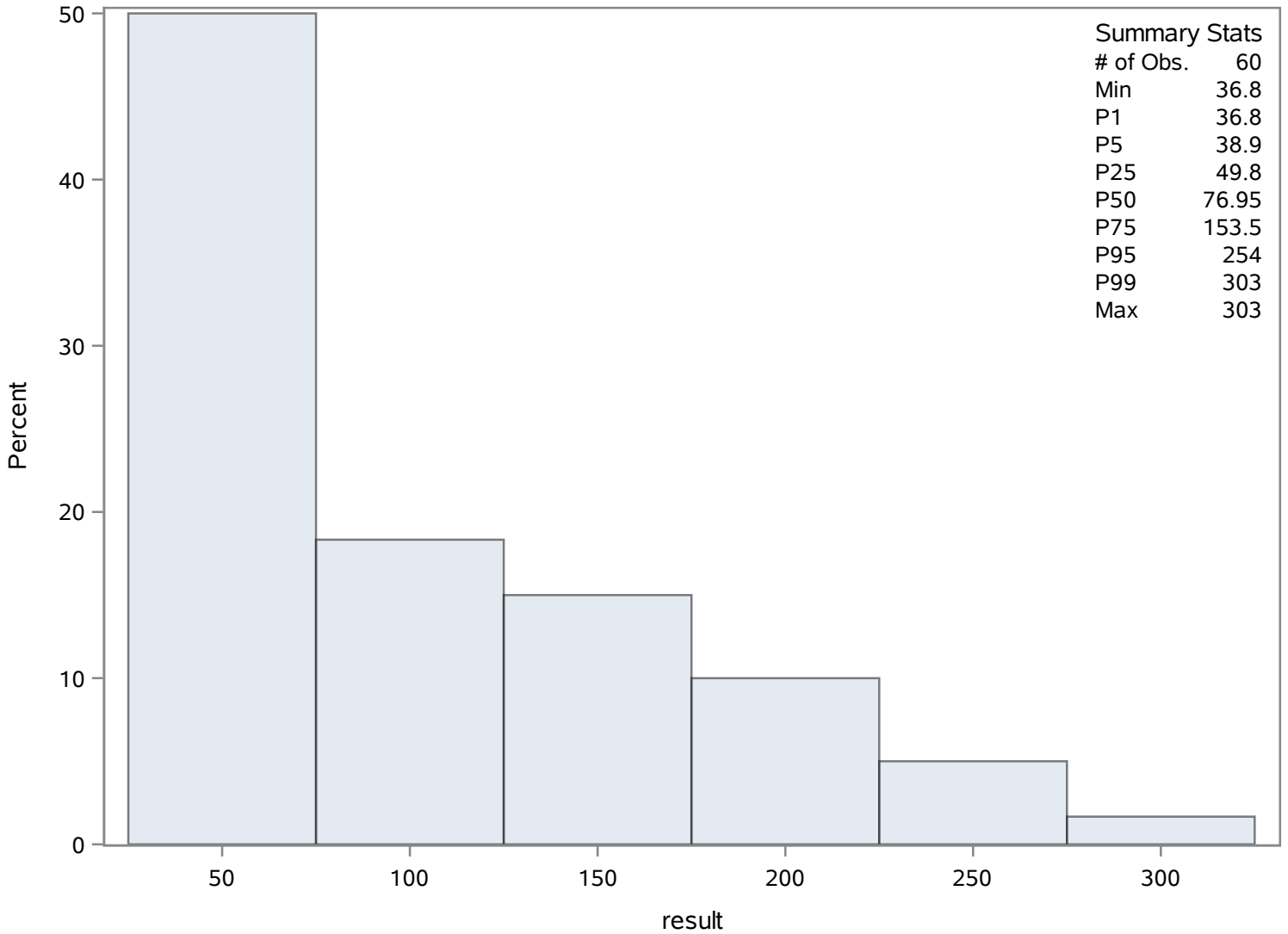
Source: Springs Data

Ruth Spring

Magnesium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	34	Sum Weights	34
Mean	0.54761176	Sum Observations	18.6188
Std Deviation	0.10114752	Variance	0.01023082
Skewness	-0.1984462	Kurtosis	-1.2753842
Uncorrected SS	10.533491	Corrected SS	0.33761712
Coeff Variation	18.4706631	Std Error Mean	0.01734666

Basic Statistical Measures			
Location		Variability	
Mean	0.547612	Std Deviation	0.10115
Median	0.575500	Variance	0.01023
Mode	0.436000	Range	0.33080
		Interquartile Range	0.19400

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	31.56872	Pr > t 	<.0001
Sign	M	17	Pr >= M 	<.0001
Signed Rank	S	297.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.7198
99%	0.7198
95%	0.6970
90%	0.6700
75% Q3	0.6300
50% Median	0.5755
25% Q1	0.4360
10%	0.4000
5%	0.3890
1%	0.3890
0% Min	0.3890

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

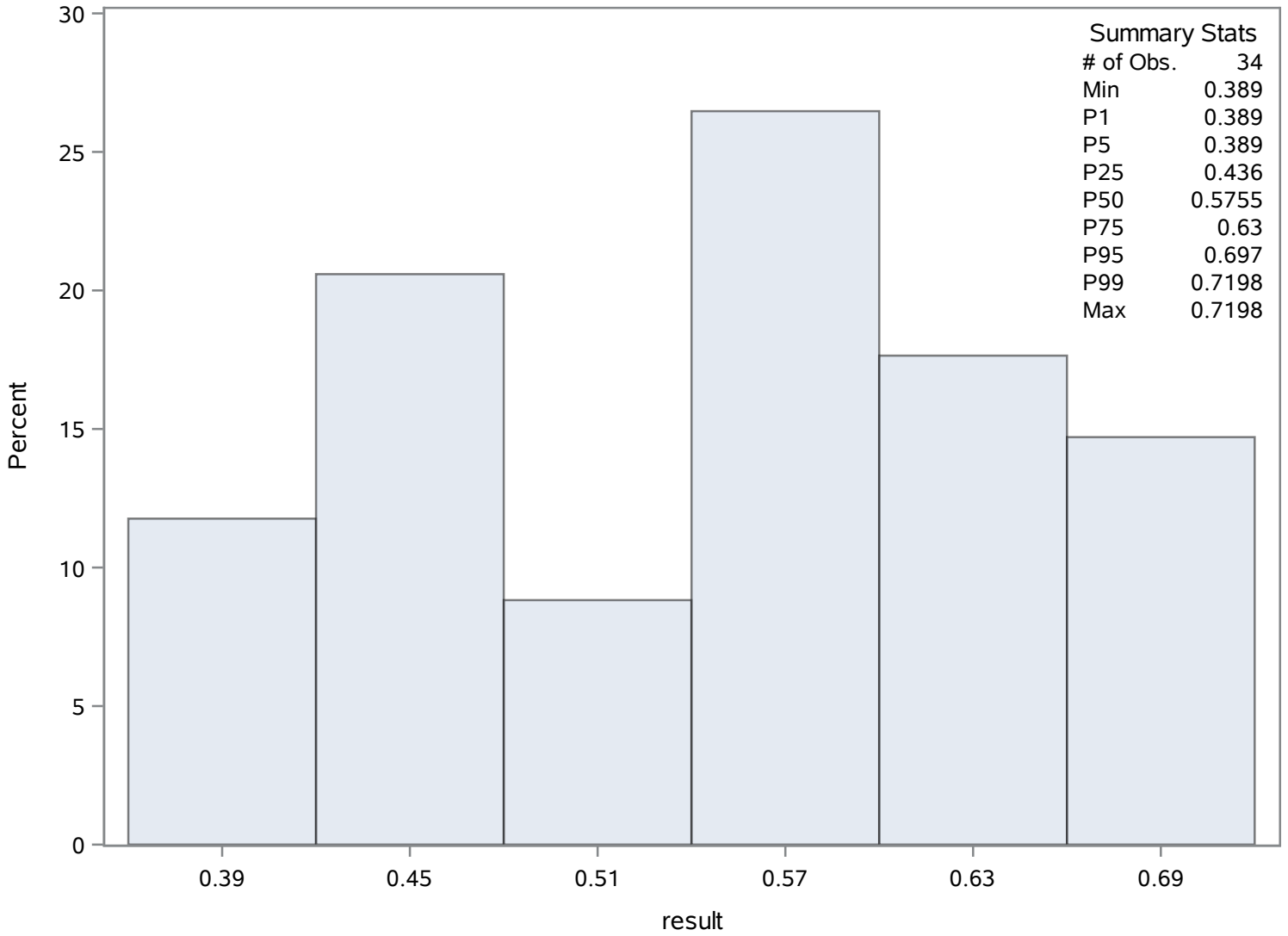
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.389	605	0.6600	632
0.389	604	0.6700	629
0.395	601	0.6740	628
0.400	600	0.6970	633
0.422	608	0.7198	618

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	31	Sum Weights	31
Mean	0.673	Sum Observations	20.863
Std Deviation	0.05247666	Variance	0.0027538
Skewness	-0.2832625	Kurtosis	0.44543097
Uncorrected SS	14.123413	Corrected SS	0.082614
Coeff Variation	7.7974237	Std Error Mean	0.00942509

Basic Statistical Measures			
Location		Variability	
Mean	0.673000	Std Deviation	0.05248
Median	0.673000	Variance	0.00275
Mode	0.638000	Range	0.22000
		Interquartile Range	0.07700

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	71.40518	Pr > t 	<.0001
Sign	M	15.5	Pr >= M 	<.0001
Signed Rank	S	248	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.759
99%	0.759
95%	0.758
90%	0.755
75% Q3	0.715
50% Median	0.673
25% Q1	0.638
10%	0.616
5%	0.570

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.539
0% Min	0.539

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.539	644	0.738	637
0.570	634	0.755	642
0.615	648	0.757	647
0.616	640	0.758	646
0.630	643	0.759	662

Chassahowitzka River - Fixed Station

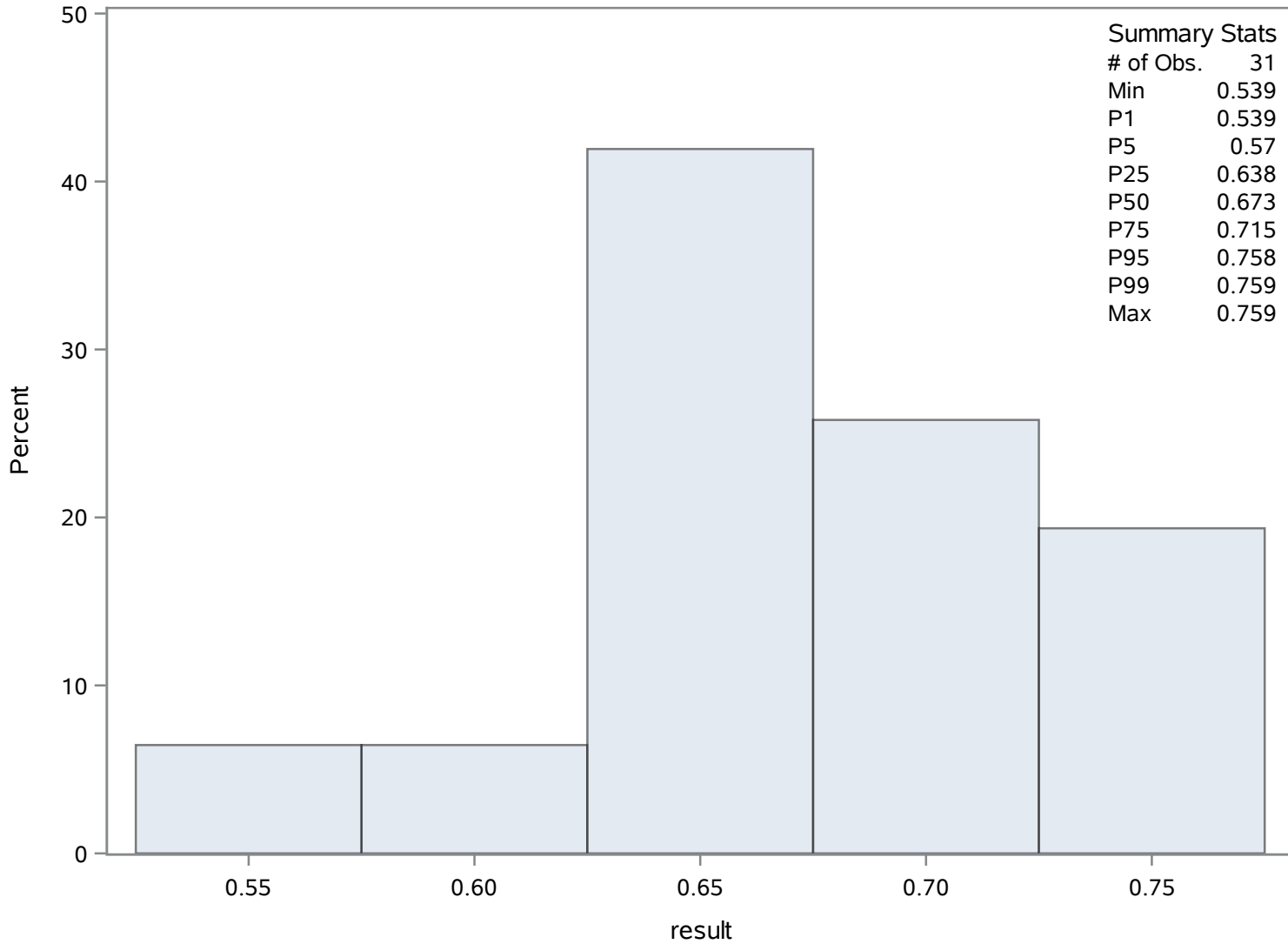
Source: Springs Data

Ruth Spring

Nitrate-Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	26	Sum Weights	26
Mean	0.00532692	Sum Observations	0.1385
Std Deviation	0.00155526	Variance	2.41885E-6
Skewness	1.94851161	Kurtosis	5.71311987
Uncorrected SS	0.00079825	Corrected SS	0.00006047
Coeff Variation	29.196292	Std Error Mean	0.00030501

Basic Statistical Measures			
Location		Variability	
Mean	0.005327	Std Deviation	0.00156
Median	0.005000	Variance	2.41885E-6
Mode	0.005000	Range	0.00750
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.46461	Pr > t 	<.0001
Sign	M	13	Pr >= M 	<.0001
Signed Rank	S	175.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0060
75% Q3	0.0050
50% Median	0.0050
25% Q1	0.0050
10%	0.0050
5%	0.0030
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	670	0.006	665
0.0030	677	0.006	668
0.0050	690	0.006	671
0.0050	689	0.010	666
0.0050	688	0.010	667

Chassahowitzka River - Fixed Station

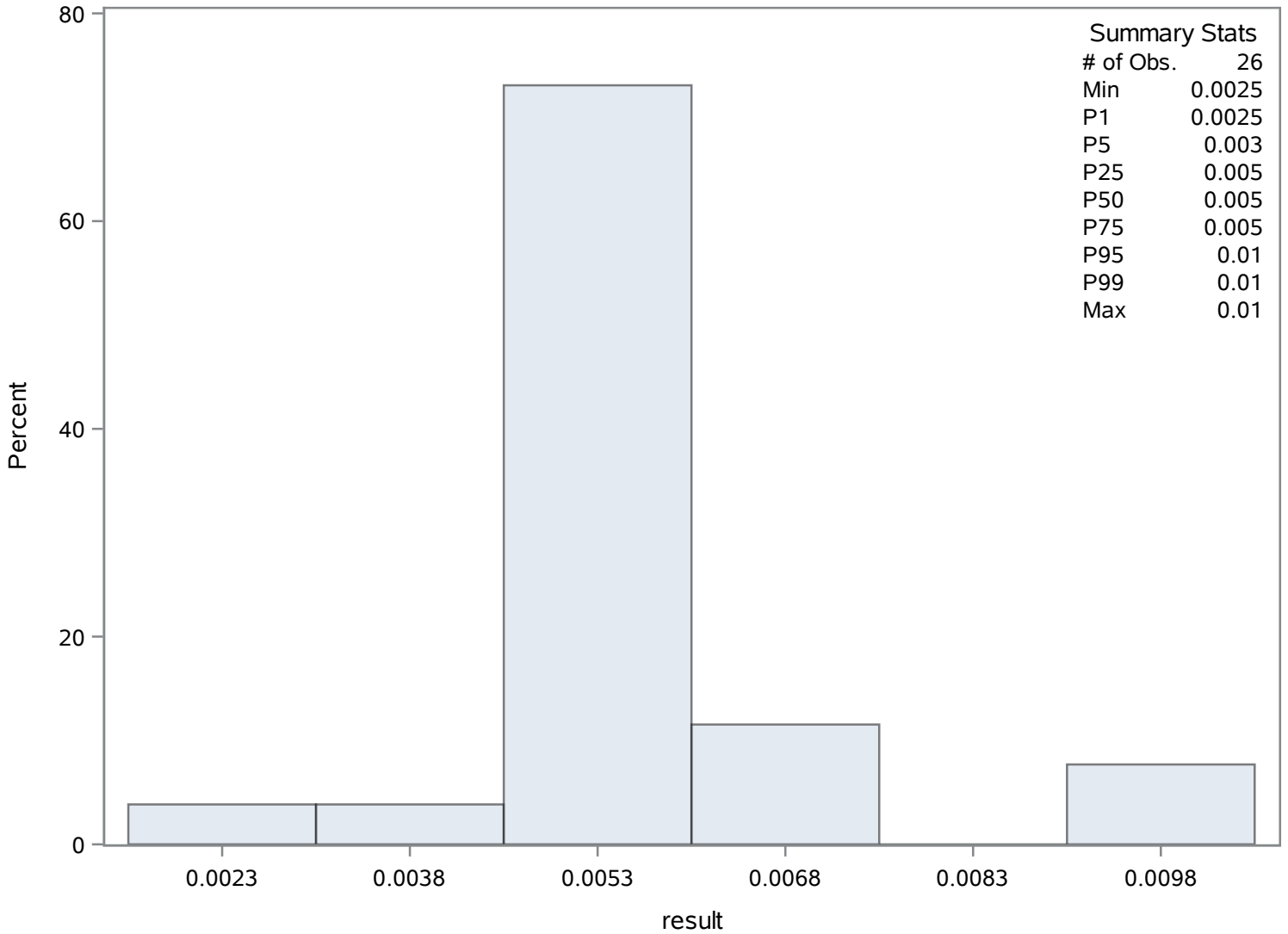
Source: Springs Data

Ruth Spring

Nitrite (N) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	33	Sum Weights	33
Mean	0.00419697	Sum Observations	0.1385
Std Deviation	0.00163907	Variance	2.68655E-6
Skewness	2.76551678	Kurtosis	8.7780492
Uncorrected SS	0.00066725	Corrected SS	0.00008597
Coeff Variation	39.0536721	Std Error Mean	0.00028533

Basic Statistical Measures			
Location		Variability	
Mean	0.004197	Std Deviation	0.00164
Median	0.004000	Variance	2.68655E-6
Mode	0.004000	Range	0.00750
		Interquartile Range	0

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.7094	Pr > t 	<.0001
Sign	M	16.5	Pr >= M 	<.0001
Signed Rank	S	280.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.0100
99%	0.0100
95%	0.0100
90%	0.0050
75% Q3	0.0040
50% Median	0.0040
25% Q1	0.0040
10%	0.0025
5%	0.0025
1%	0.0025
0% Min	0.0025

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0025	699	0.005	693
0.0025	698	0.005	694
0.0025	697	0.005	715
0.0025	696	0.010	691
0.0025	695	0.010	692

Chassahowitzka River - Fixed Station

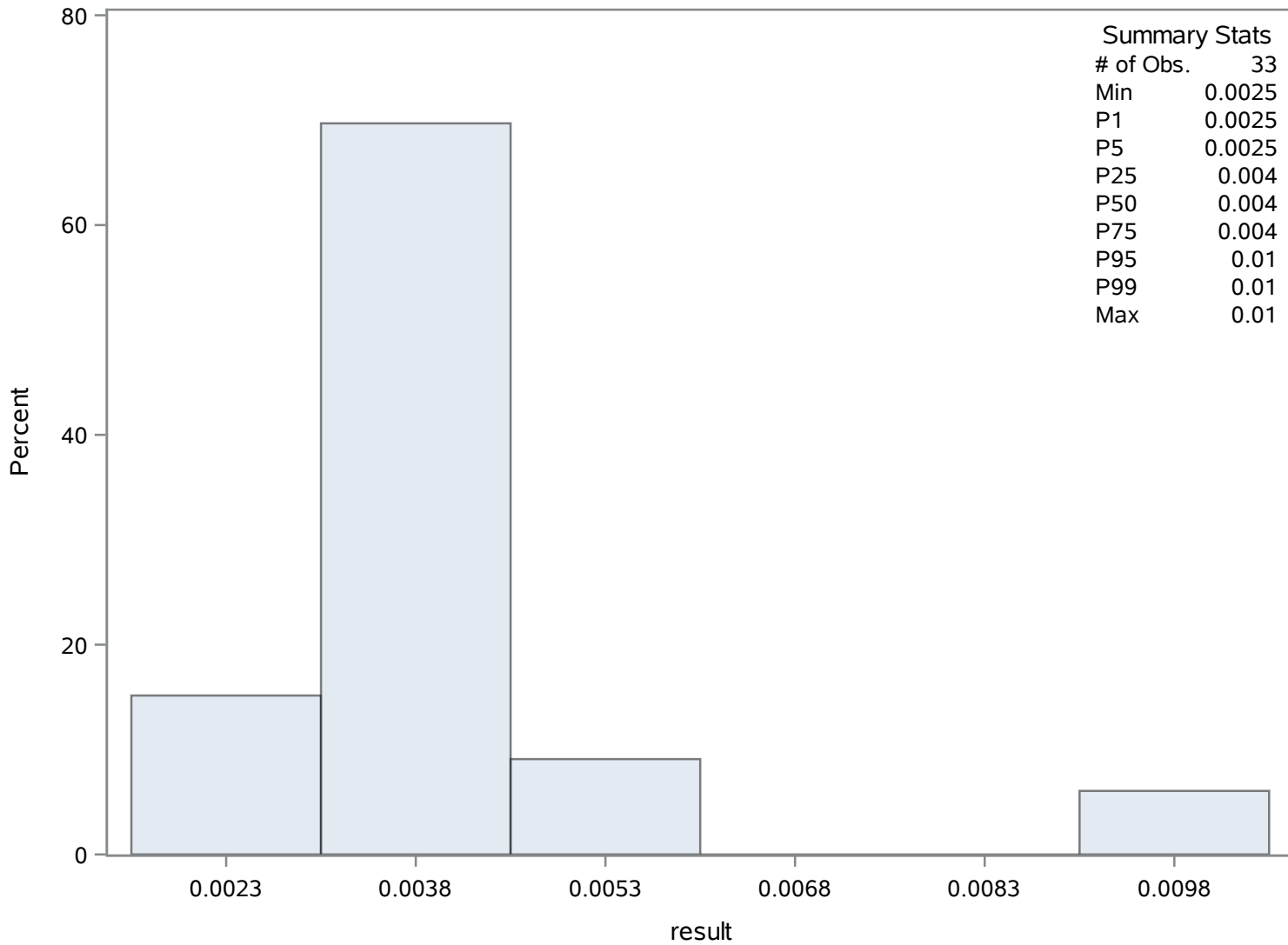
Source: Springs Data

Ruth Spring

Nitrite (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	38	Sum Weights	38
Mean	0.72762105	Sum Observations	27.6496
Std Deviation	0.08415672	Variance	0.00708235
Skewness	1.51623384	Kurtosis	4.57130789
Uncorrected SS	20.3804782	Corrected SS	0.2620471
Coeff Variation	11.56601	Std Error Mean	0.01365202

Basic Statistical Measures			
Location		Variability	
Mean	0.727621	Std Deviation	0.08416
Median	0.720000	Variance	0.00708
Mode	0.700000	Range	0.43000
		Interquartile Range	0.05000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	53.29767	Pr > t 	<.0001
Sign	M	19	Pr >= M 	<.0001
Signed Rank	S	370.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.00
99%	1.00
95%	1.00
90%	0.80
75% Q3	0.75
50% Median	0.72
25% Q1	0.70
10%	0.64
5%	0.60

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.57
0% Min	0.57

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	728	0.795	730
0.60	740	0.800	739
0.61	729	0.800	755
0.64	751	1.000	724
0.64	733	1.000	725

Chassahowitzka River - Fixed Station

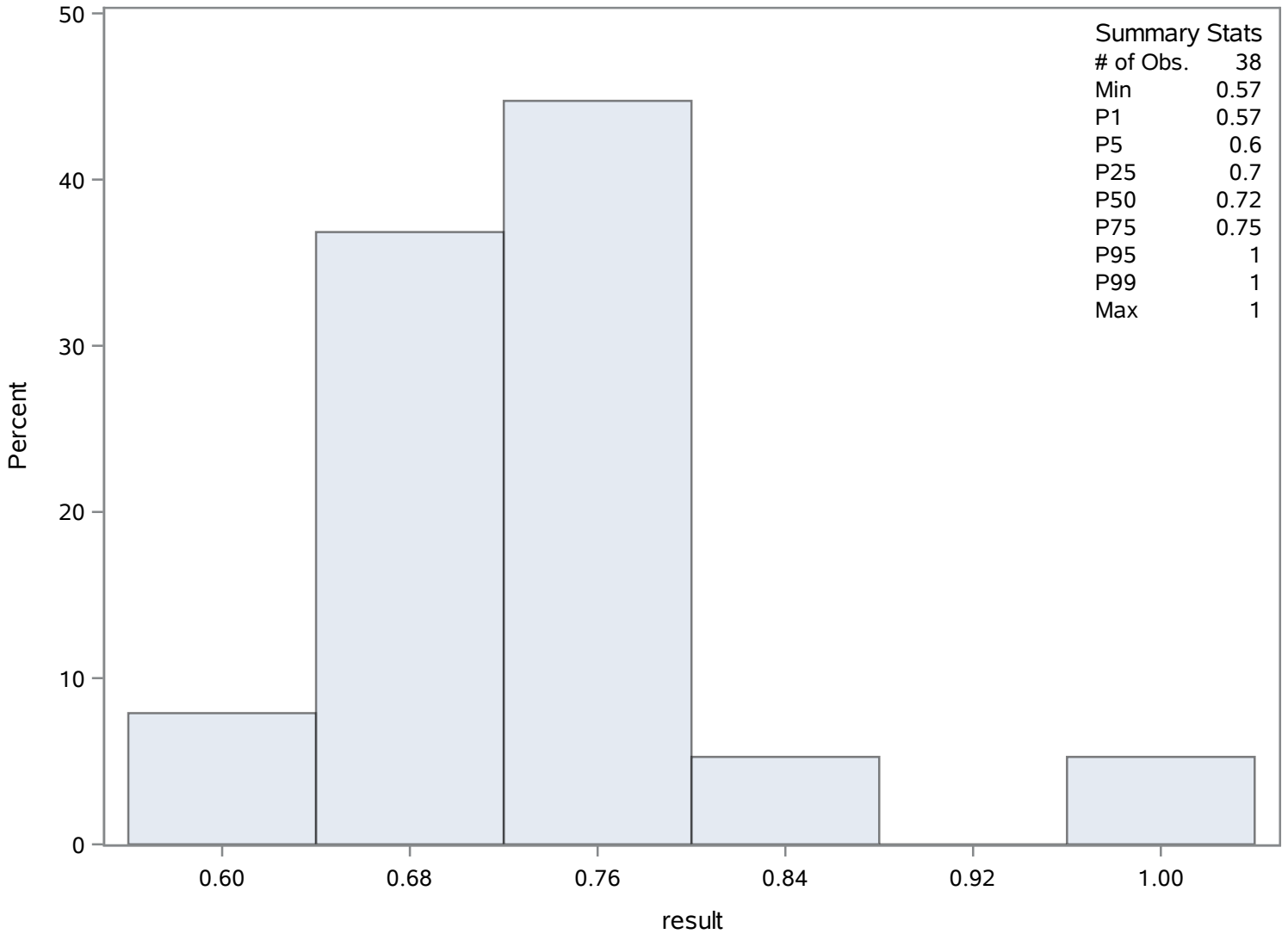
Source: Springs Data

Ruth Spring

Nitrogen- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	0.018025	Sum Observations	1.2257
Std Deviation	0.00497073	Variance	0.00002471
Skewness	2.14594895	Kurtosis	7.83566566
Uncorrected SS	0.02374869	Corrected SS	0.00165545
Coeff Variation	27.5768738	Std Error Mean	0.00060279

Basic Statistical Measures			
Location		Variability	
Mean	0.018025	Std Deviation	0.00497
Median	0.018000	Variance	0.0000247
Mode	0.019000	Range	0.02900
		Interquartile Range	0.00500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.90263	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.039
99%	0.039
95%	0.024
90%	0.023
75% Q3	0.020
50% Median	0.018
25% Q1	0.015
10%	0.014
5%	0.012
1%	0.010
0% Min	0.010

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Orthophosphate (P) (Dissolved) mg/L

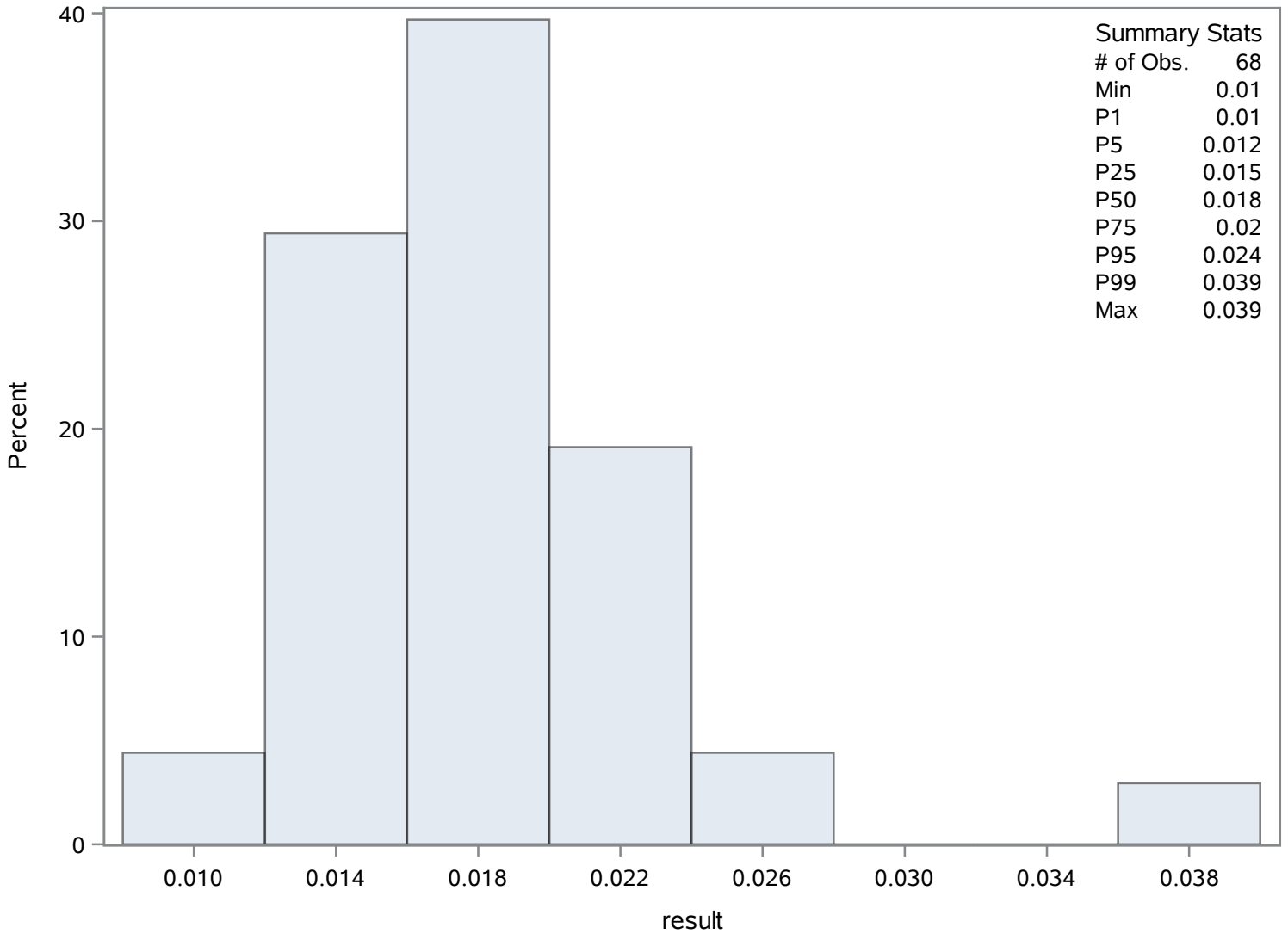
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	769	0.024	776
0.010	768	0.024	777
0.011	791	0.024	780
0.012	781	0.039	766
0.013	808	0.039	767

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Orthophosphate (P) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	0.02646176	Sum Observations	1.7994
Std Deviation	0.01578922	Variance	0.0002493
Skewness	3.90597134	Kurtosis	18.3314996
Uncorrected SS	0.06431836	Corrected SS	0.01670306
Coeff Variation	59.668047	Std Error Mean	0.00191472

Basic Statistical Measures			
Location		Variability	
Mean	0.026462	Std Deviation	0.01579
Median	0.023000	Variance	0.0002493
Mode	0.020000	Range	0.10900
		Interquartile Range	0.00600

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.82015	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.114
99%	0.114
95%	0.048
90%	0.040
75% Q3	0.026
50% Median	0.023
25% Q1	0.020
10%	0.017
5%	0.016
1%	0.005
0% Min	0.005

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Phosphorus- Total (Total) mg/L

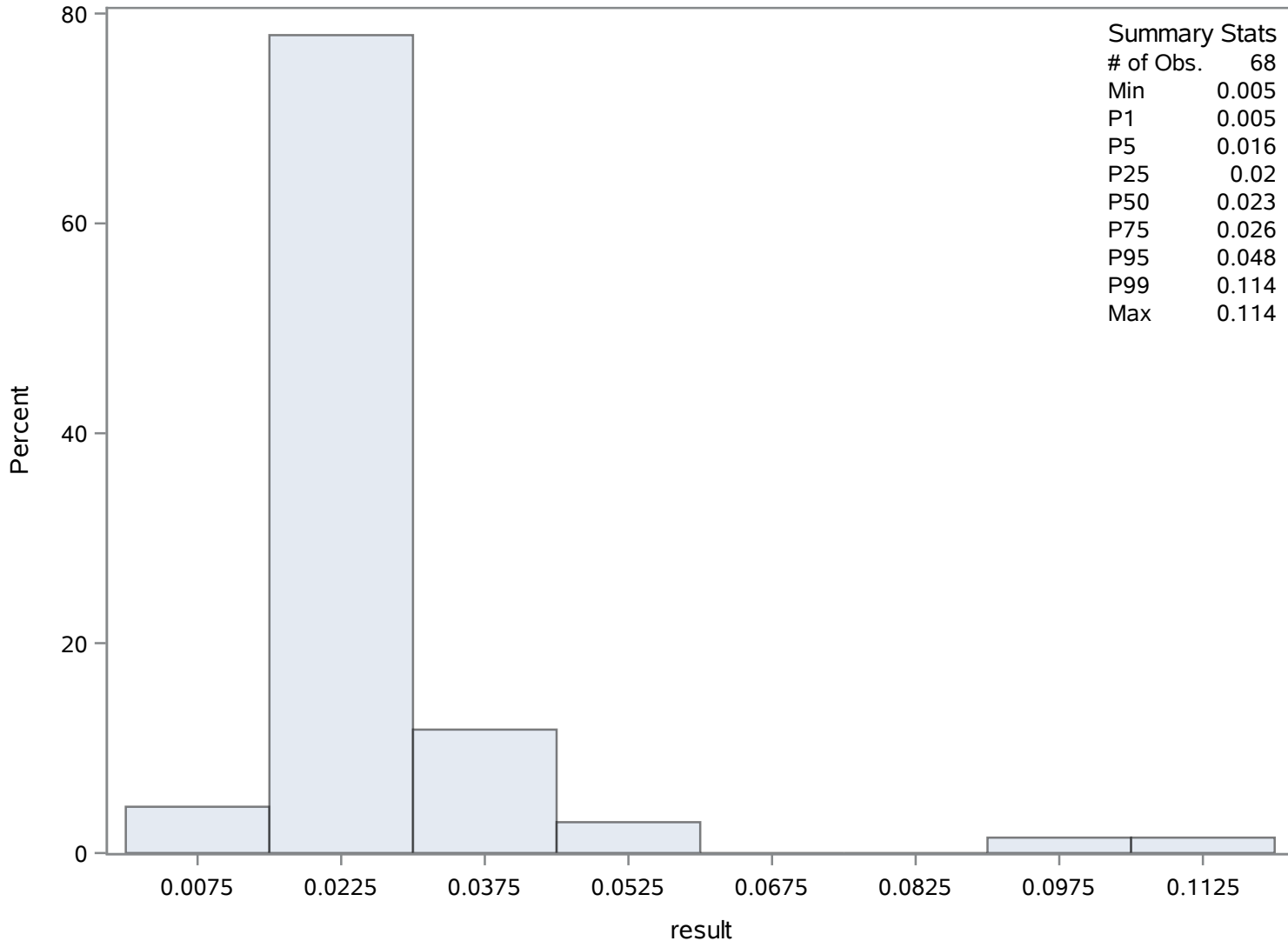
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	868	0.042	859
0.014	837	0.048	842
0.014	836	0.048	843
0.016	891	0.095	860
0.016	853	0.114	866

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	29.9578333	Sum Observations	1797.47
Std Deviation	19.9877484	Variance	399.510085
Skewness	1.15432599	Kurtosis	0.85739567
Uncorrected SS	77419.4017	Corrected SS	23571.095
Coeff Variation	66.719606	Std Error Mean	2.58040722

Basic Statistical Measures			
Location		Variability	
Mean	29.95783	Std Deviation	19.98775
Median	23.10000	Variance	399.51009
Mode	11.00000	Range	84.30000
		Interquartile Range	31.65000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.60973	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	92.700
99%	92.700
95%	74.200
90%	51.050
75% Q3	44.800
50% Median	23.100
25% Q1	13.150
10%	11.000
5%	9.575
1%	8.400
0% Min	8.400

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Potassium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.40	900	63.1	915
8.66	912	74.1	924
9.40	902	74.3	936
9.75	911	79.2	917
11.00	905	92.7	956

Chassahowitzka River - Fixed Station

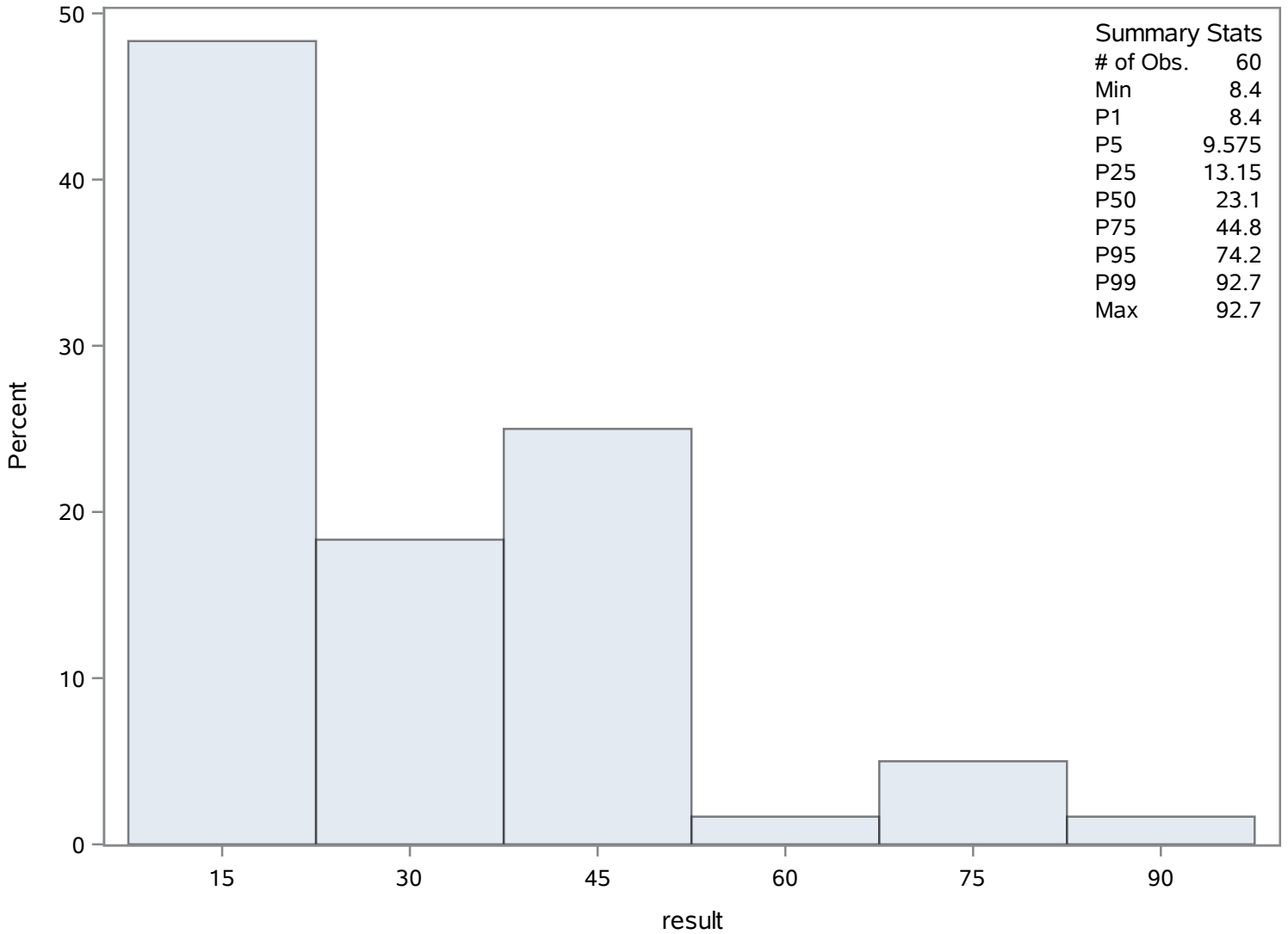
Source: Springs Data

Ruth Spring

Potassium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	65	Sum Weights	65
Mean	2568.96923	Sum Observations	166983
Std Deviation	1783.49281	Variance	3180846.59
Skewness	1.50452073	Kurtosis	2.15883239
Uncorrected SS	632548371	Corrected SS	203574182
Coeff Variation	69.4244519	Std Error Mean	221.215057

Basic Statistical Measures			
Location		Variability	
Mean	2568.969	Std Deviation	1783
Median	2040.000	Variance	3180847
Mode	963.000	Range	8592
		Interquartile Range	1930

Note: The mode displayed is the smallest of 10 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.61299	Pr > t 	<.0001
Sign	M	32.5	Pr >= M 	<.0001
Signed Rank	S	1072.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8600
99%	8600
95%	7140
90%	4870
75% Q3	3170
50% Median	2040
25% Q1	1240
10%	1117
5%	963

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

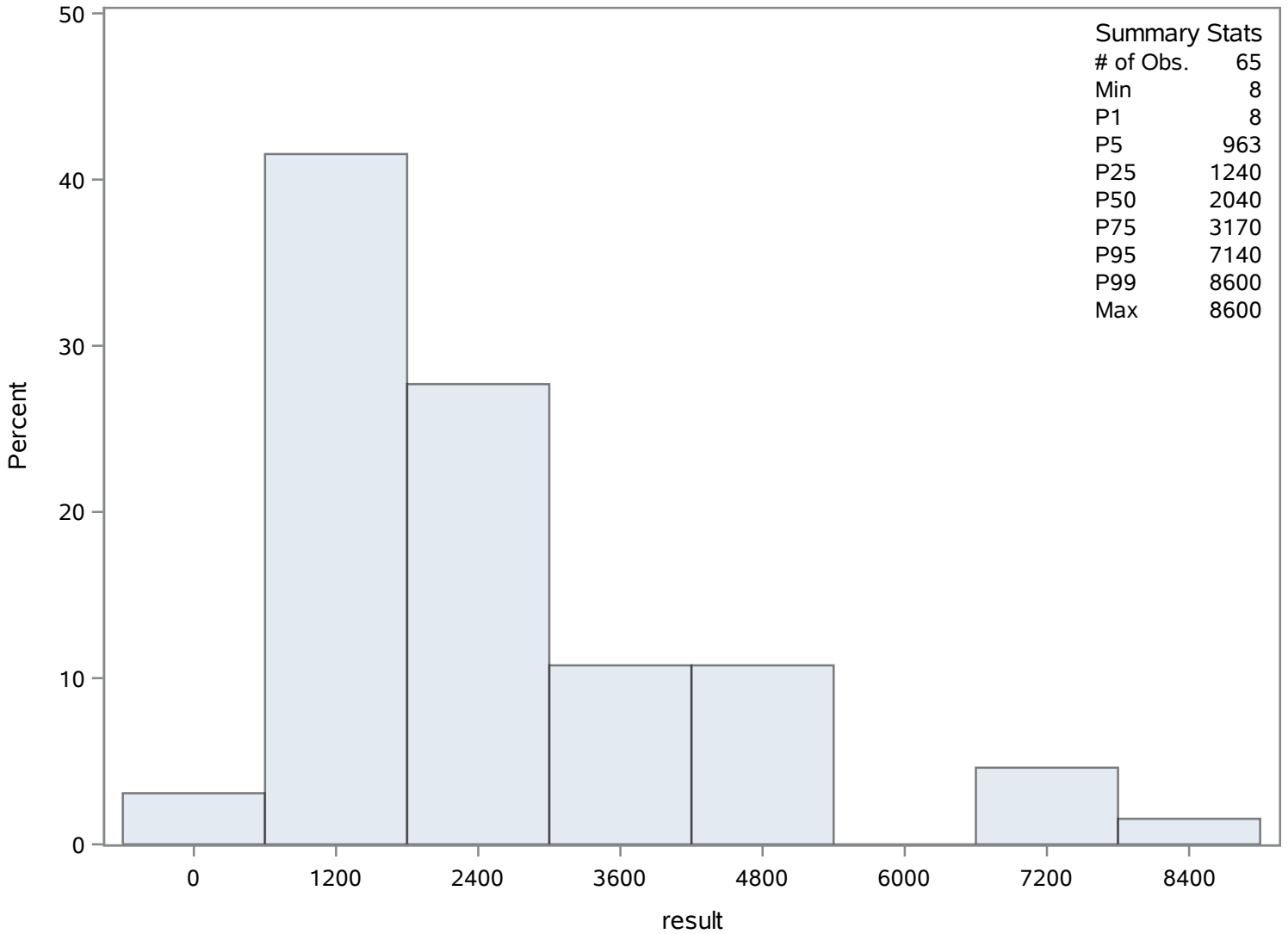
Quantiles (Definition 5)	
Level	Quantile
1%	8
0% Min	8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8	962	5020	991
391	976	7140	1001
963	966	7290	989
963	965	7390	982
974	979	8600	1021

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	50	Sum Weights	50
Mean	9.006394	Sum Observations	450.3197
Std Deviation	0.24565535	Variance	0.06034655
Skewness	-0.0078455	Kurtosis	1.49051592
Uncorrected SS	4058.71363	Corrected SS	2.95698109
Coeff Variation	2.72756615	Std Error Mean	0.03474091

Basic Statistical Measures			
Location		Variability	
Mean	9.006394	Std Deviation	0.24566
Median	9.038150	Variance	0.06035
Mode	9.100000	Range	1.40000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	259.2446	Pr > t 	<.0001
Sign	M	25	Pr >= M 	<.0001
Signed Rank	S	637.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.80000
99%	9.80000
95%	9.30000
90%	9.25000
75% Q3	9.10000
50% Median	9.03815
25% Q1	8.90000
10%	8.60000
5%	8.60000
1%	8.40000
0% Min	8.40000

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Silica- Dissolved (Dissolved) mg/L

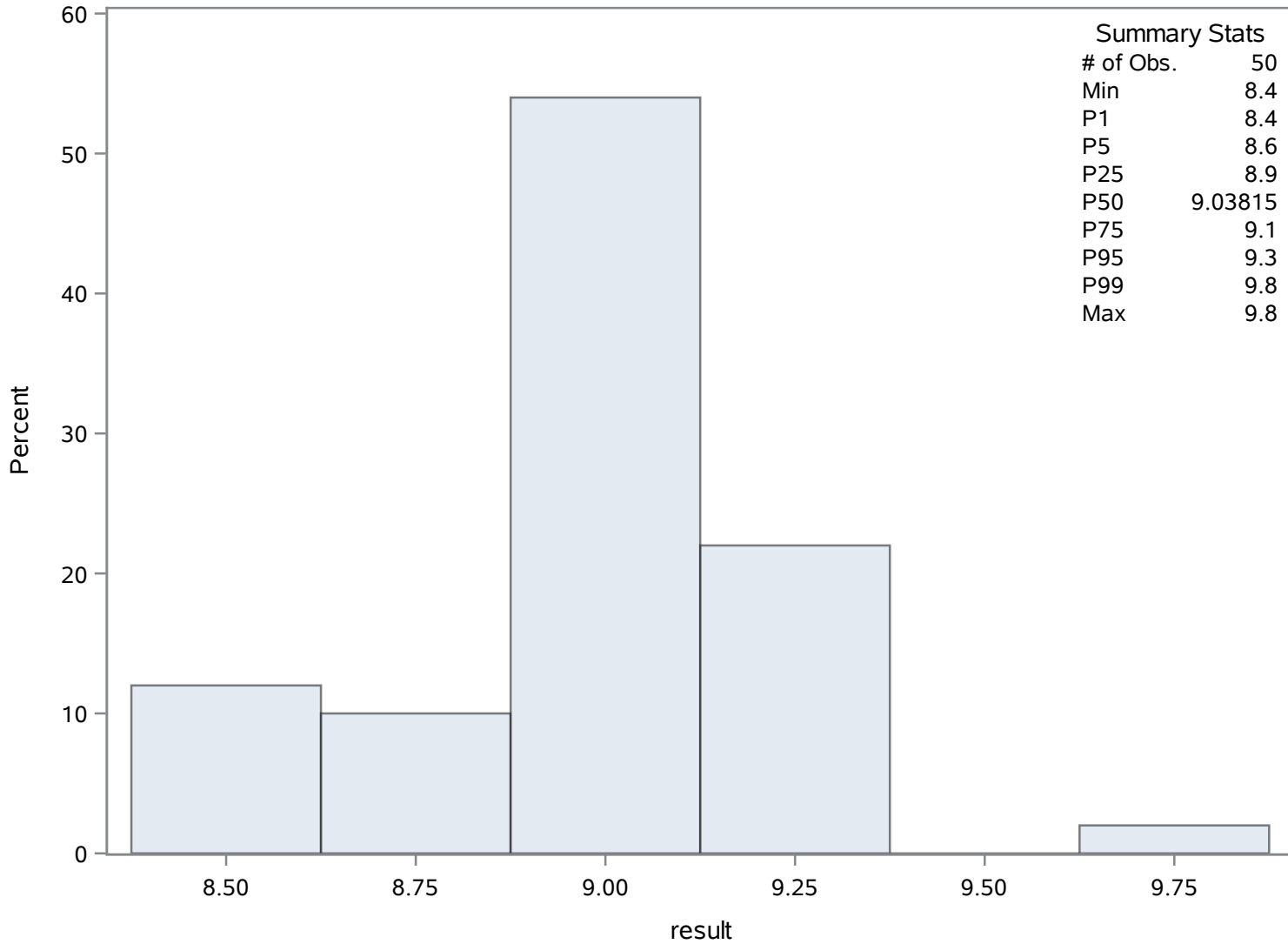
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.4	1032	9.3	1027
8.6	1071	9.3	1028
8.6	1064	9.3	1035
8.6	1060	9.3	1066
8.6	1058	9.8	1052

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Silica- Dissolved (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	60	Sum Weights	60
Mean	805.340333	Sum Observations	48320.42
Std Deviation	552.754227	Variance	305537.235
Skewness	1.2073235	Kurtosis	0.94132918
Uncorrected SS	56941080	Corrected SS	18026696.9
Coeff Variation	68.6361037	Std Error Mean	71.3602638

Basic Statistical Measures			
Location		Variability	
Mean	805.3403	Std Deviation	552.75423
Median	580.0000	Variance	305537
Mode	315.0000	Range	2321
		Interquartile Range	836.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.28556	Pr > t 	<.0001
Sign	M	30	Pr >= M 	<.0001
Signed Rank	S	915	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2560.0
99%	2560.0
95%	2065.0
90%	1425.0
75% Q3	1210.0
50% Median	580.0
25% Q1	373.5
10%	306.5
5%	252.5
1%	239.0
0% Min	239.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sodium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
239	1087	1740	1090
249	1077	2060	1111
251	1075	2070	1099
254	1086	2110	1092
297	1126	2560	1131

Chassahowitzka River - Fixed Station

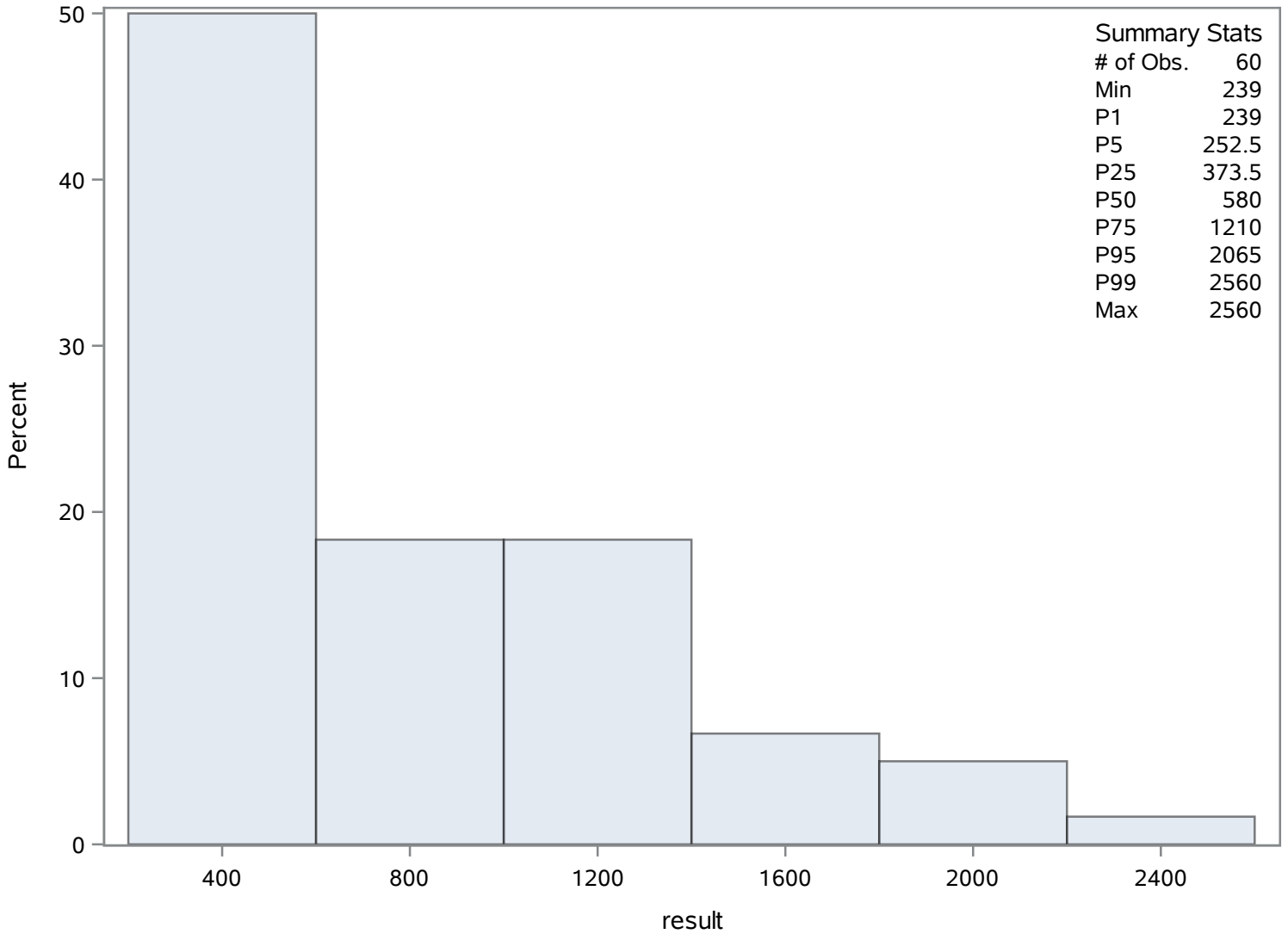
Source: Springs Data

Ruth Spring

Sodium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	114	Sum Weights	114
Mean	5258.30526	Sum Observations	599446.8
Std Deviation	3196.6358	Variance	10218480.5
Skewness	1.14777062	Kurtosis	0.60073505
Uncorrected SS	4306762554	Corrected SS	1154688291
Coeff Variation	60.7921306	Std Error Mean	299.392374

Basic Statistical Measures			
Location		Variability	
Mean	5258.305	Std Deviation	3197
Median	4147.000	Variance	10218480
Mode	2200.000	Range	13005
		Interquartile Range	5069

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.56326	Pr > t 	<.0001
Sign	M	57	Pr >= M 	<.0001
Signed Rank	S	3277.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14766.0
99%	14498.1
95%	12712.0
90%	8960.0
75% Q3	7727.0
50% Median	4147.0
25% Q1	2658.0
10%	2228.0
5%	1930.0

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

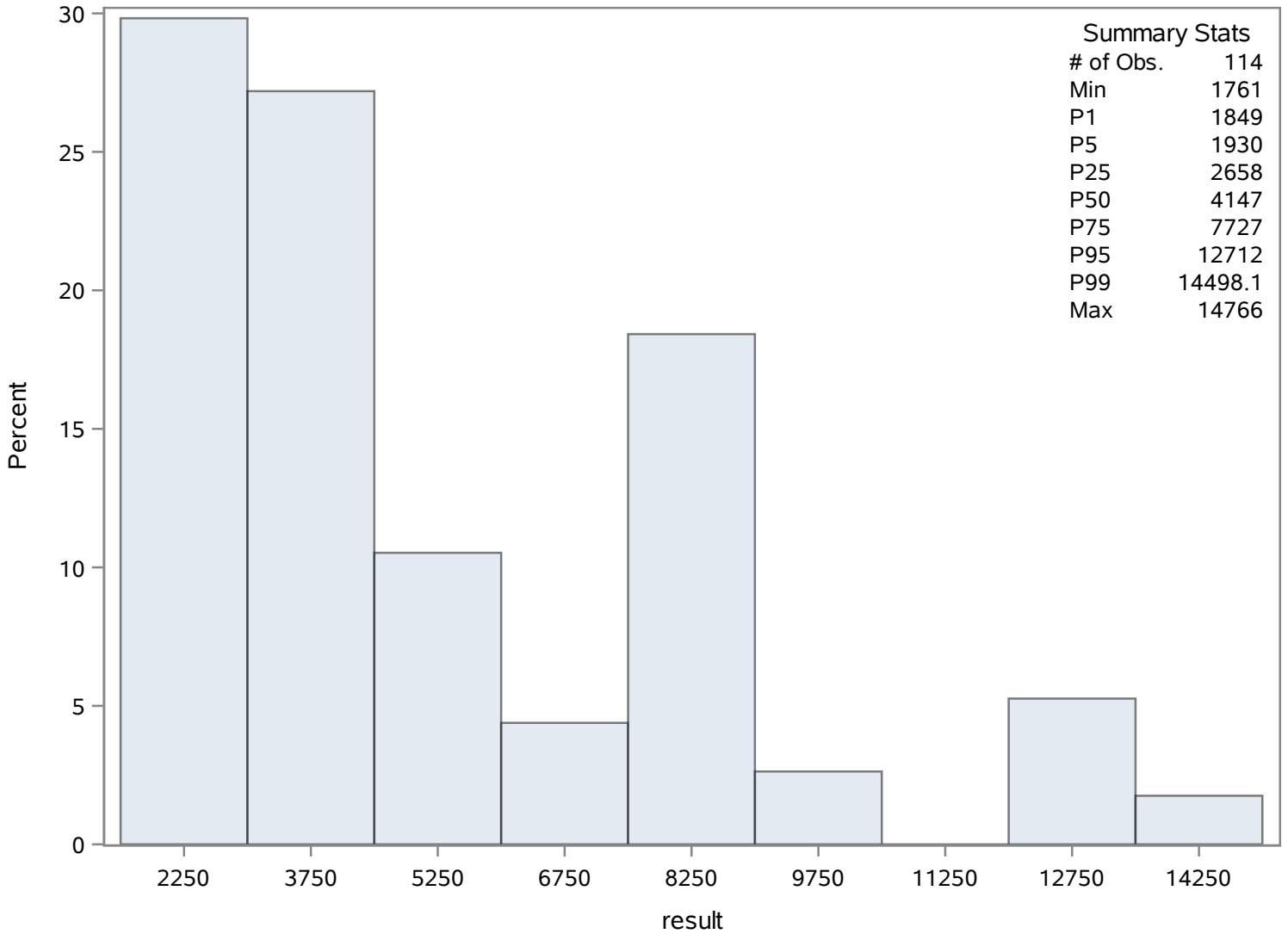
Quantiles (Definition 5)	
Level	Quantile
1%	1849.0
0% Min	1761.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1761	1137	12734.0	1204
1849	1135	12900.0	1164
1867	1154	13278.9	1203
1877	1155	14498.1	1243
1910	1153	14766.0	1244

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	1.00353333	Sum Observations	45.159
Std Deviation	0.49814034	Variance	0.2481438
Skewness	0.93822807	Kurtosis	0.25206319
Uncorrected SS	56.236889	Corrected SS	10.9183272
Coeff Variation	49.6386443	Std Error Mean	0.07425838

Basic Statistical Measures			
Location		Variability	
Mean	1.003533	Std Deviation	0.49814
Median	0.810000	Variance	0.24814
Mode	0.470000	Range	2.01000
		Interquartile Range	0.75000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.51408	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.41
99%	2.41
95%	2.01
90%	1.51
75% Q3	1.38
50% Median	0.81
25% Q1	0.63
10%	0.47
5%	0.44

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.40
0% Min	0.40

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.400	1285	1.51	1291
0.430	1247	1.97	1251
0.440	1286	2.01	1270
0.463	1273	2.03	1258
0.470	1281	2.41	1290

Chassahowitzka River - Fixed Station

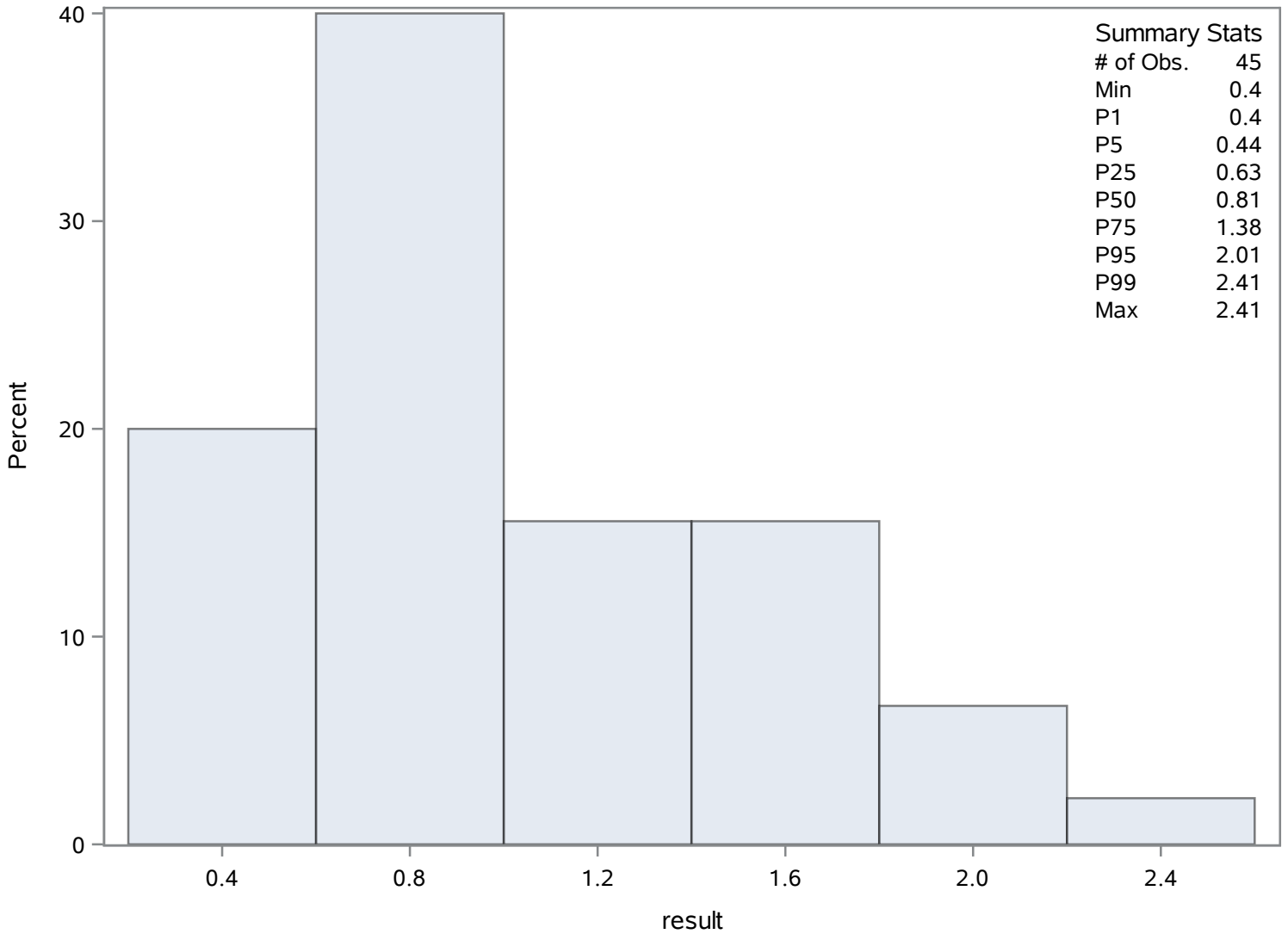
Source: Springs Data

Ruth Spring

Strontium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	9	Sum Weights	9
Mean	667.486667	Sum Observations	6007.38
Std Deviation	548.767152	Variance	301145.387
Skewness	0.60018421	Kurtosis	-0.530794
Uncorrected SS	6419009.14	Corrected SS	2409163.09
Coeff Variation	82.2139496	Std Error Mean	182.922384

Basic Statistical Measures			
Location		Variability	
Mean	667.4867	Std Deviation	548.76715
Median	480.0000	Variance	301145
Mode	.	Range	1600
		Interquartile Range	490.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.649016	Pr > t 	0.0065
Sign	M	4.5	Pr >= M 	0.0039
Signed Rank	S	22.5	Pr >= S 	0.0039

Quantiles (Definition 5)	
Level	Quantile
100% Max	1600.00
99%	1600.00
95%	1600.00
90%	1600.00
75% Q3	890.00
50% Median	480.00
25% Q1	400.00
10%	0.38
5%	0.38
1%	0.38
0% Min	0.38

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) ug/L

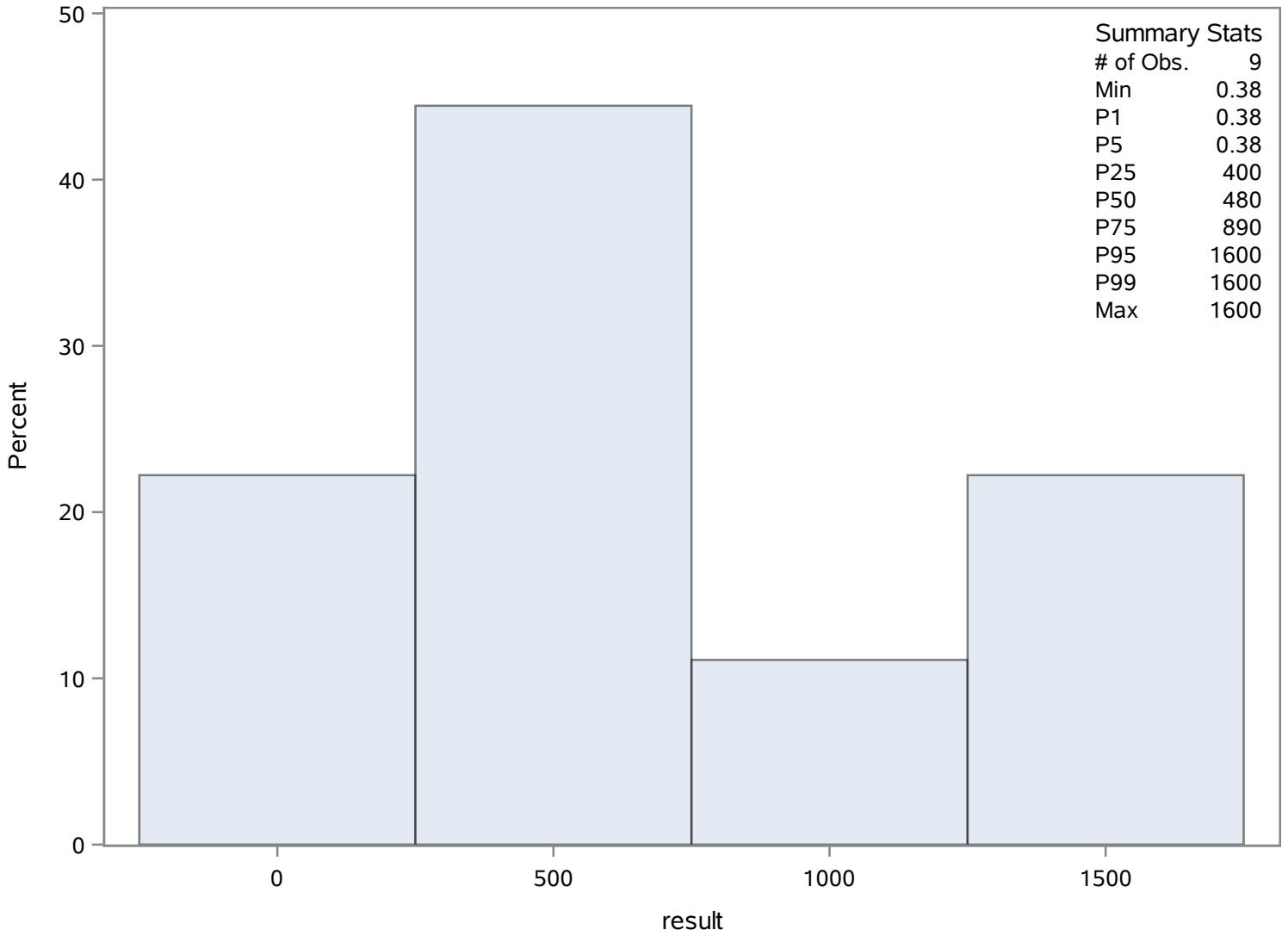
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.38	1299	480	1297
50.00	1294	747	1298
400.00	1300	890	1295
460.00	1293	1380	1296
480.00	1297	1600	1292

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	204.034412	Sum Observations	13874.34
Std Deviation	144.813387	Variance	20970.9171
Skewness	1.31512788	Kurtosis	1.24526547
Uncorrected SS	4235894.24	Corrected SS	1405051.44
Coeff Variation	70.974982	Std Error Mean	17.5612027

Basic Statistical Measures			
Location		Variability	
Mean	204.0344	Std Deviation	144.81339
Median	153.0000	Variance	20971
Mode	89.0000	Range	623.90000
		Interquartile Range	221.40000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.61848	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	666.00
99%	666.00
95%	513.00
90%	381.00
75% Q3	313.00
50% Median	153.00
25% Q1	91.60
10%	69.39
5%	67.00
1%	42.10
0% Min	42.10

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
42.1	1316	497	1328
42.1	1315	513	1335
67.0	1310	537	1347
67.0	1309	620	1326
68.0	1306	666	1367

Chassahowitzka River - Fixed Station

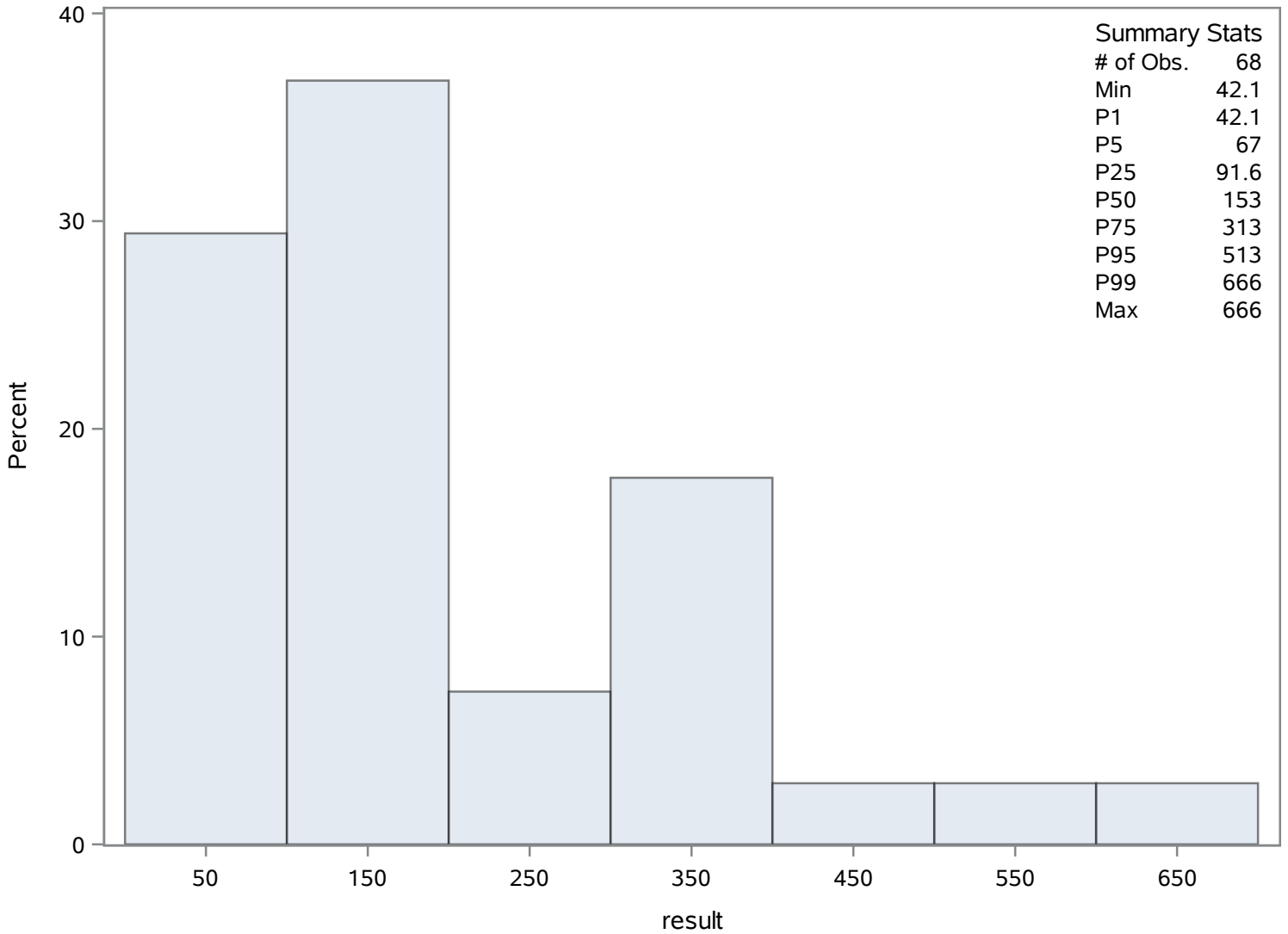
Source: Springs Data

Ruth Spring

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	22.6960656	Sum Observations	1384.46
Std Deviation	0.58458897	Variance	0.34174426
Skewness	-0.1605681	Kurtosis	1.23023042
Uncorrected SS	31442.2996	Corrected SS	20.5046557
Coeff Variation	2.57572823	Std Error Mean	0.07484895

Basic Statistical Measures			
Location		Variability	
Mean	22.69607	Std Deviation	0.58459
Median	22.86000	Variance	0.34174
Mode	22.90000	Range	3.40000
		Interquartile Range	0.77000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	303.2249	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.60
99%	24.60
95%	23.30
90%	23.21
75% Q3	23.07
50% Median	22.86
25% Q1	22.30
10%	21.77
5%	21.70
1%	21.20
0% Min	21.20

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Temperature (Total) Deg. C

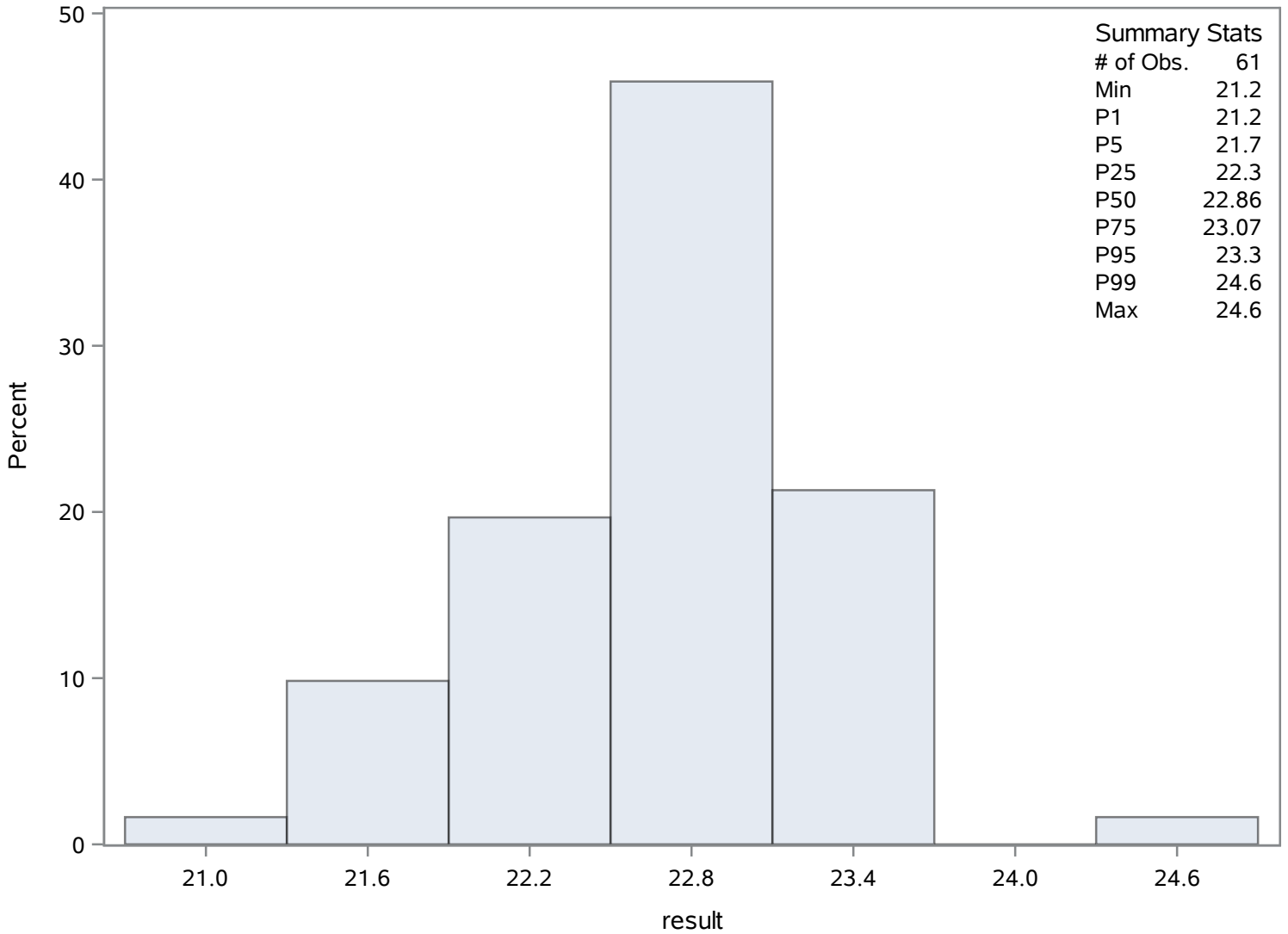
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21.20	1371	23.25	1388
21.50	1376	23.30	1370
21.57	1382	23.50	1385
21.70	1423	23.54	1384
21.71	1419	24.60	1369

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Ruth Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	68	Sum Weights	68
Mean	0.80323529	Sum Observations	54.62
Std Deviation	0.88135655	Variance	0.77678938
Skewness	1.94382152	Kurtosis	3.71749101
Uncorrected SS	95.9176	Corrected SS	52.0448882
Coeff Variation	109.725825	Std Error Mean	0.10688018

Basic Statistical Measures			
Location		Variability	
Mean	0.803235	Std Deviation	0.88136
Median	0.475000	Variance	0.77679
Mode	0.130000	Range	3.77000
		Interquartile Range	0.94000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.515288	Pr > t 	<.0001
Sign	M	34	Pr >= M 	<.0001
Signed Rank	S	1173	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.800
99%	3.800
95%	2.970
90%	1.800
75% Q3	1.105
50% Median	0.475
25% Q1	0.165
10%	0.130
5%	0.080
1%	0.030
0% Min	0.030

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Turbidity (Total) NTU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.03	1452	2.55	1458
0.05	1430	2.97	1457
0.08	1448	3.45	1473
0.08	1445	3.80	1439
0.13	1469	3.80	1440

Chassahowitzka River - Fixed Station

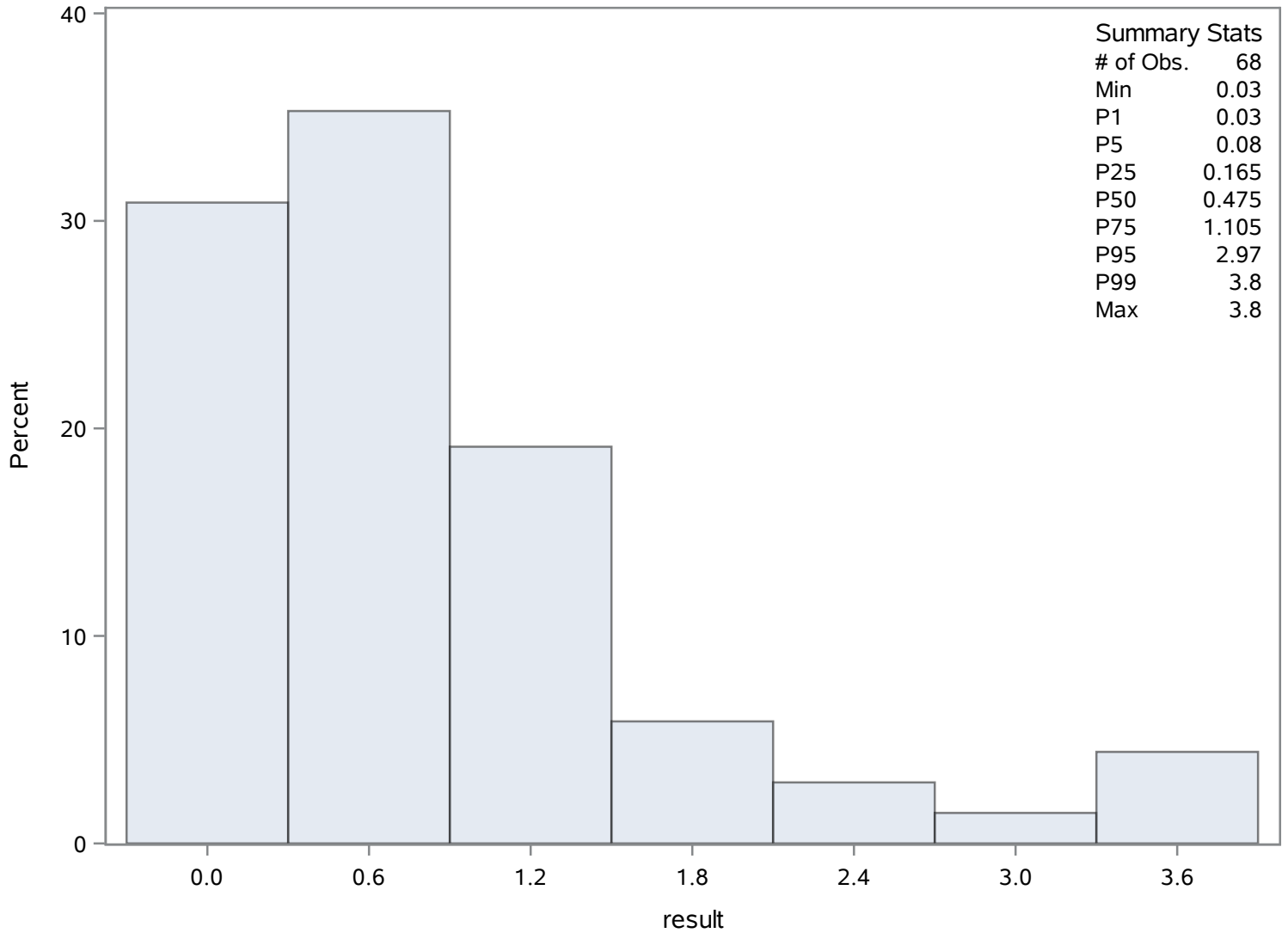
Source: Springs Data

Ruth Spring

Turbidity (Total) NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Springs Data

Ruth Spring

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	61	Sum Weights	61
Mean	7.35672131	Sum Observations	448.76
Std Deviation	0.11136608	Variance	0.0124024
Skewness	0.18346387	Kurtosis	-0.6079173
Uncorrected SS	3302.1464	Corrected SS	0.74414426
Coeff Variation	1.51380048	Std Error Mean	0.01425897

Basic Statistical Measures			
Location		Variability	
Mean	7.356721	Std Deviation	0.11137
Median	7.370000	Variance	0.01240
Mode	7.230000	Range	0.47000
		Interquartile Range	0.15000

Note: The mode displayed is the smallest of 4 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	515.9365	Pr > t 	<.0001
Sign	M	30.5	Pr >= M 	<.0001
Signed Rank	S	945.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.60
99%	7.60
95%	7.53
90%	7.50
75% Q3	7.42
50% Median	7.37
25% Q1	7.27
10%	7.23
5%	7.21

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	7.13
0% Min	7.13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.13	1514	7.52	1506
7.16	1525	7.53	1499
7.18	1513	7.58	1518
7.21	1557	7.59	1508
7.21	1534	7.60	1509

Chassahowitzka River - Fixed Station

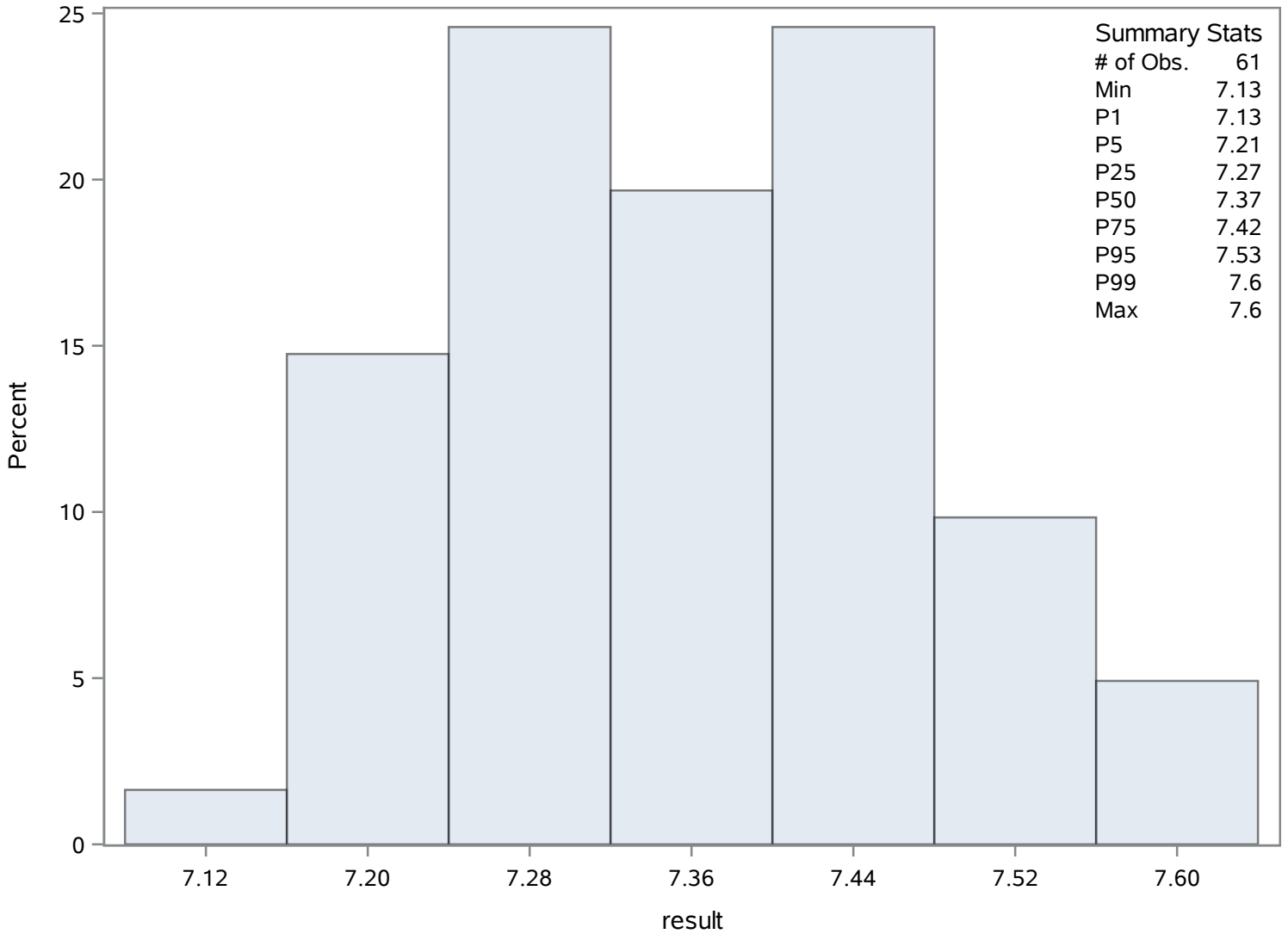
Source: Springs Data

Ruth Spring

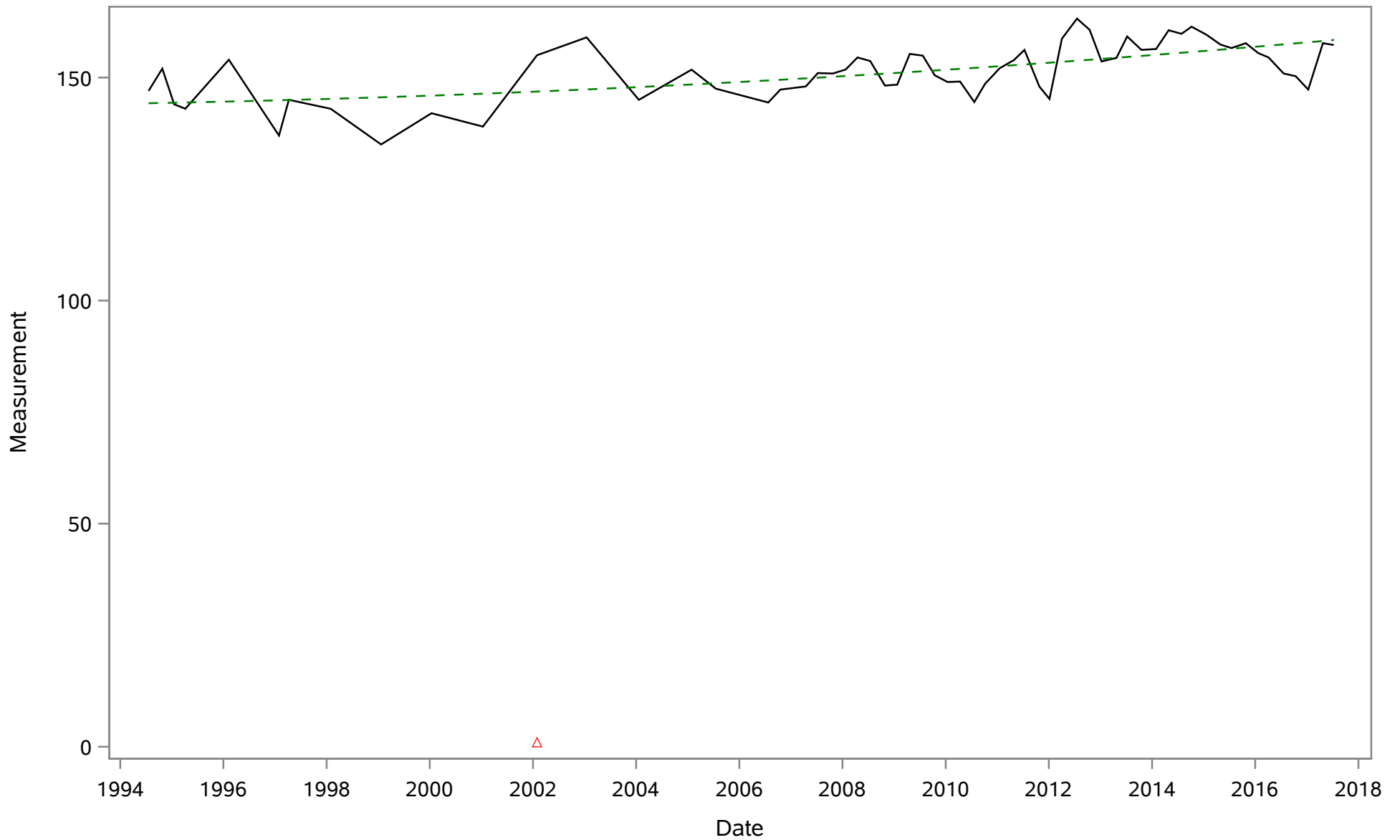
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

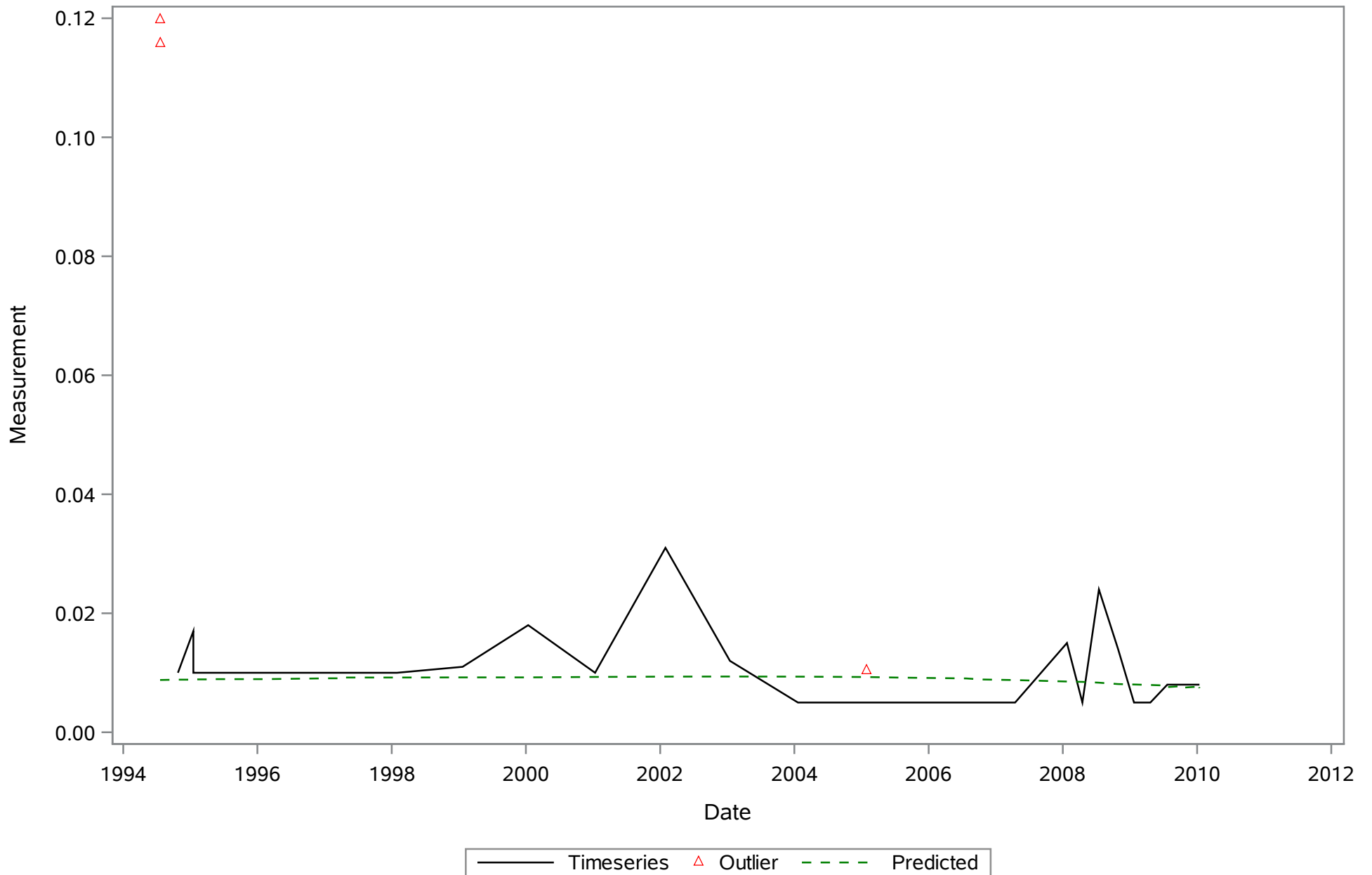


Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Alkalinity (Total) mg/L

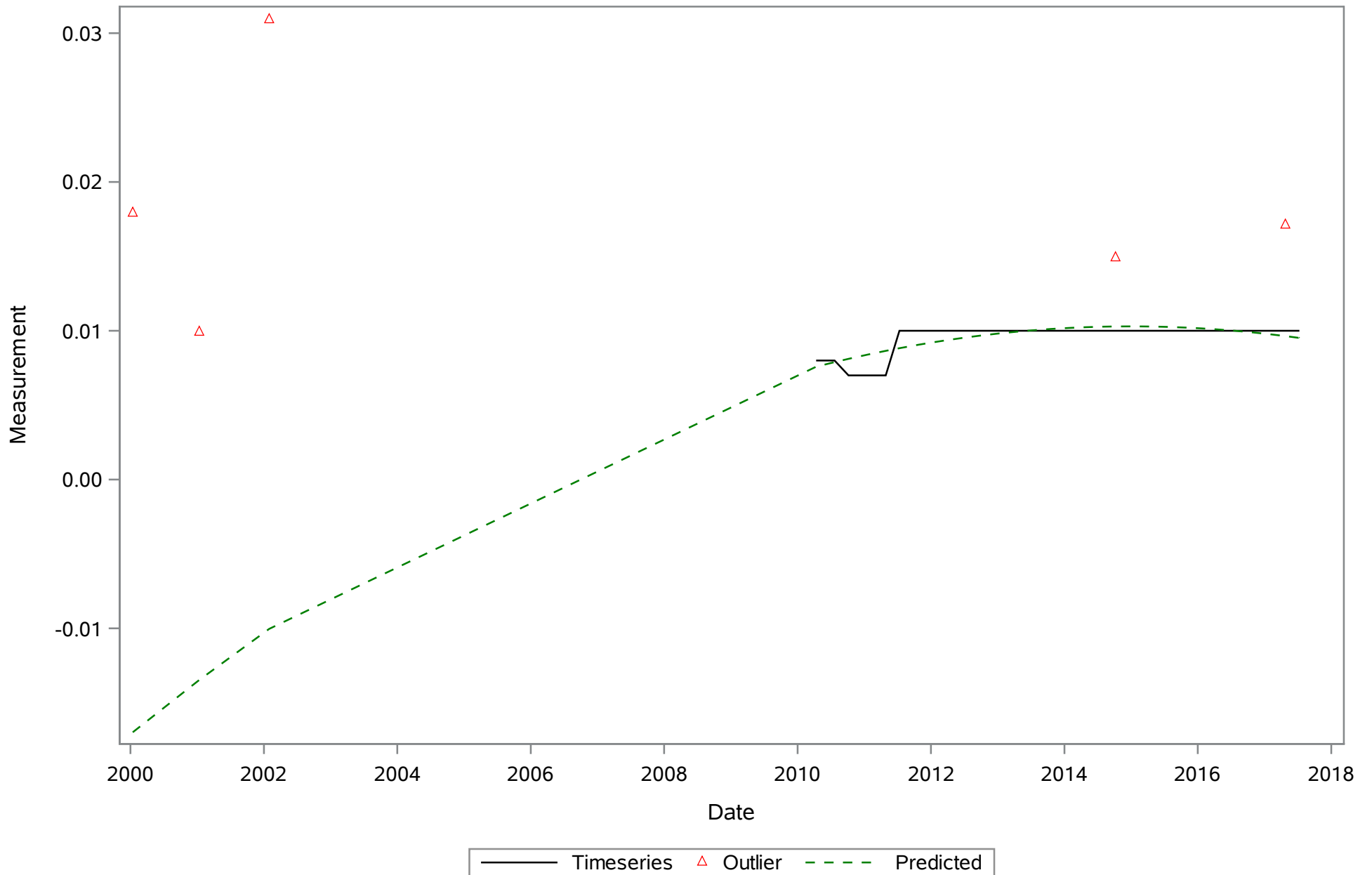


— Timeseries ▲ Outlier - - - Predicted

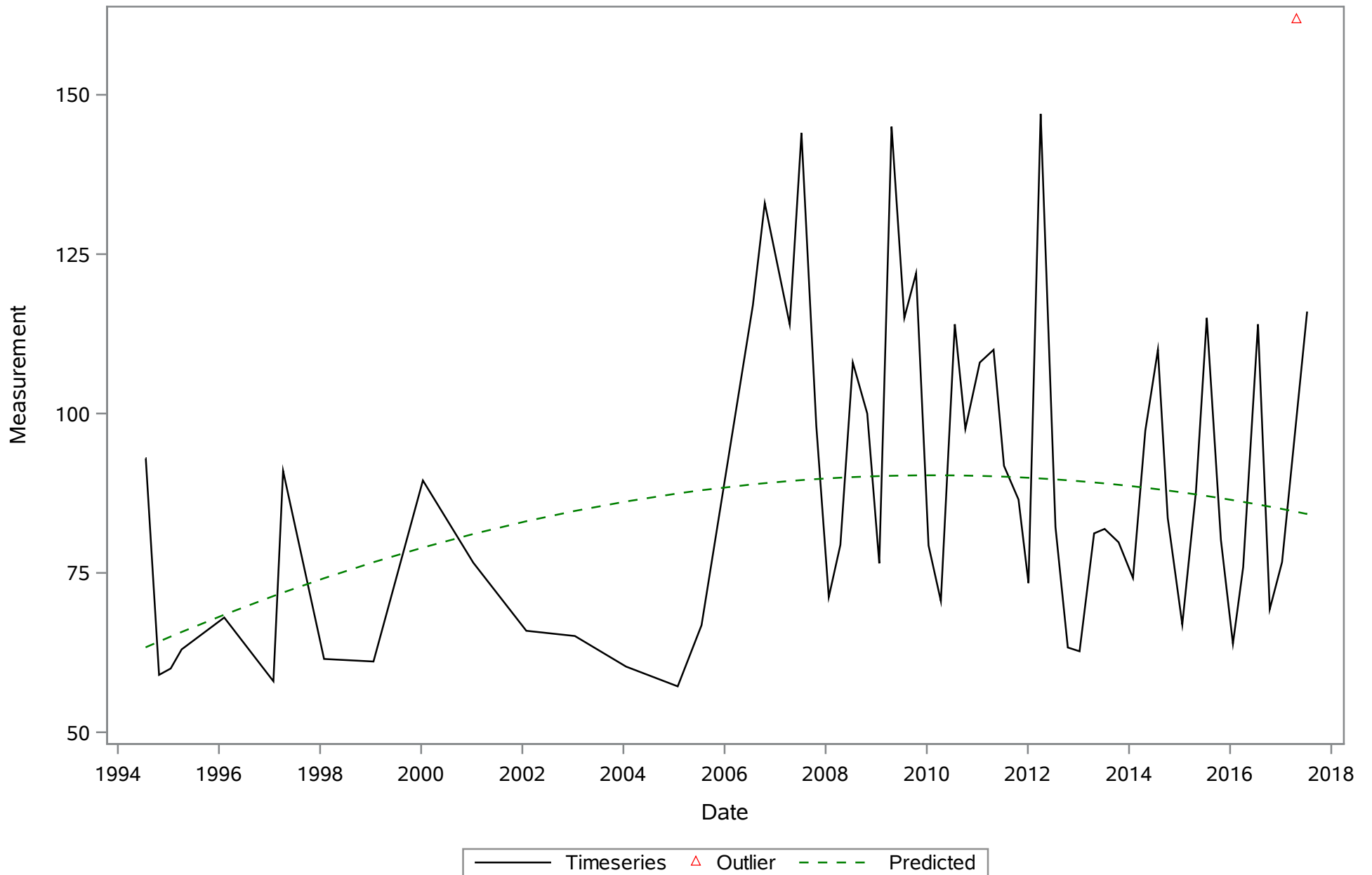
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Dissolved) mg/L



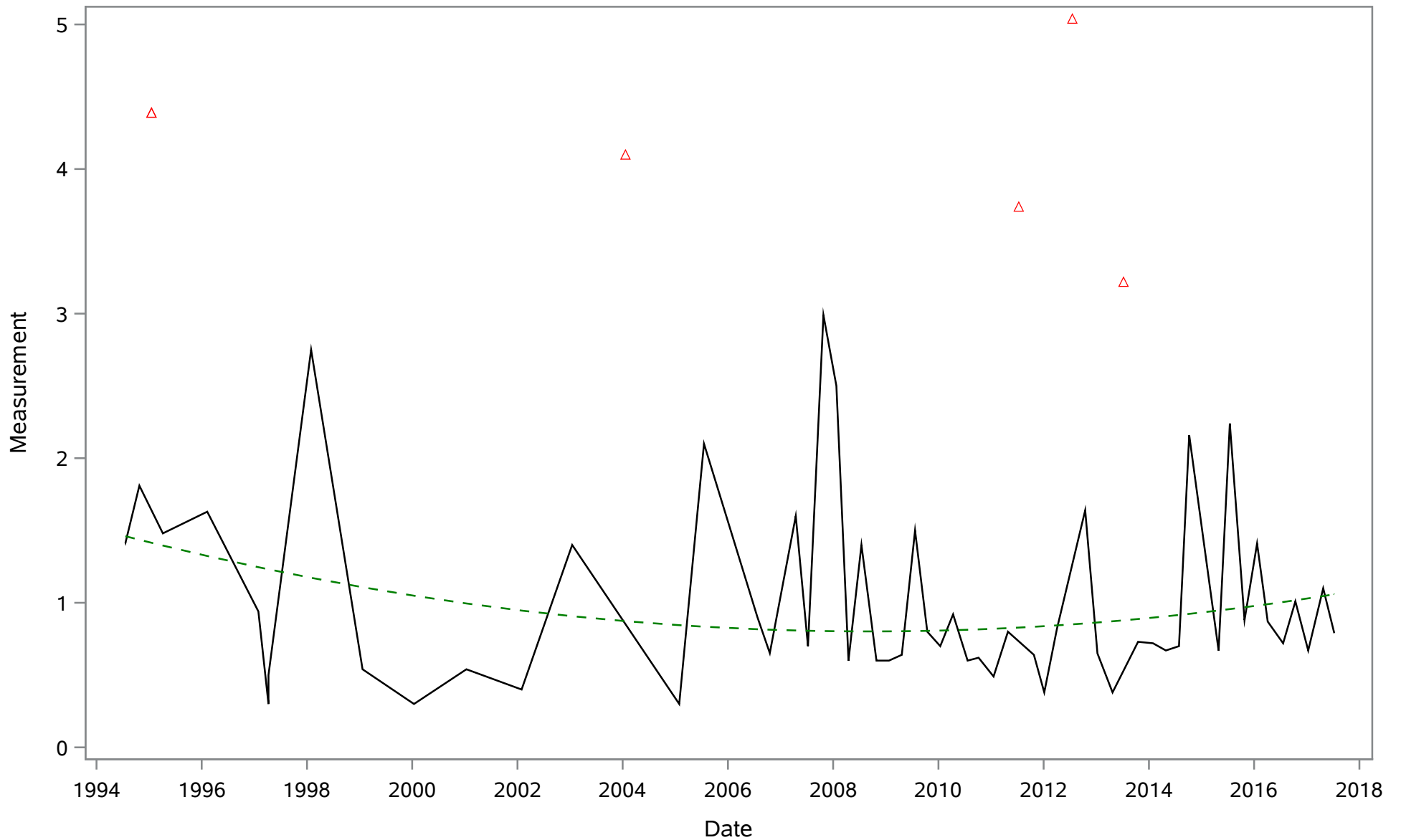
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Total) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Calcium (Dissolved) mg/L

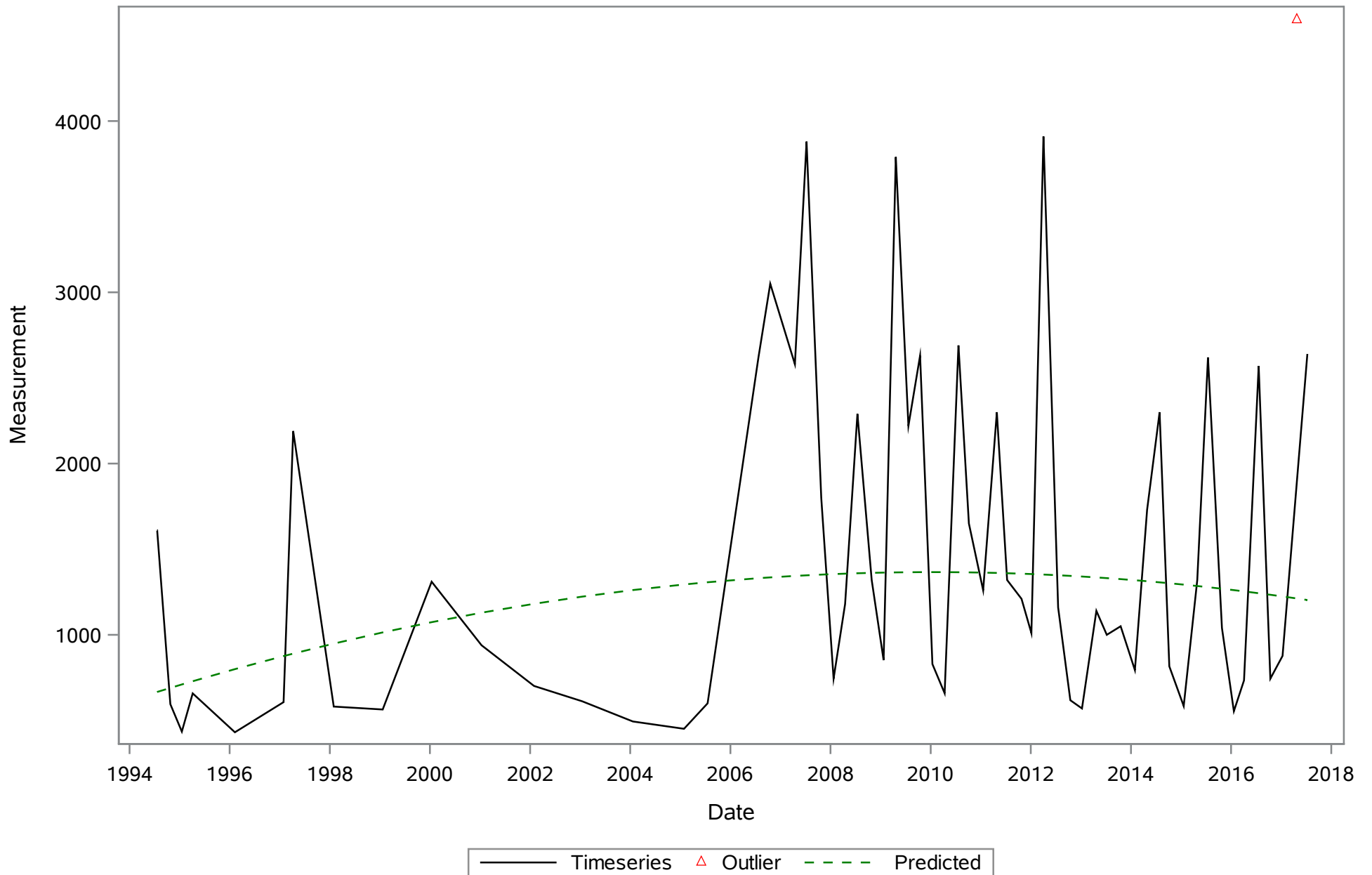


Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Carbon- Total Organic (Total) mg/L

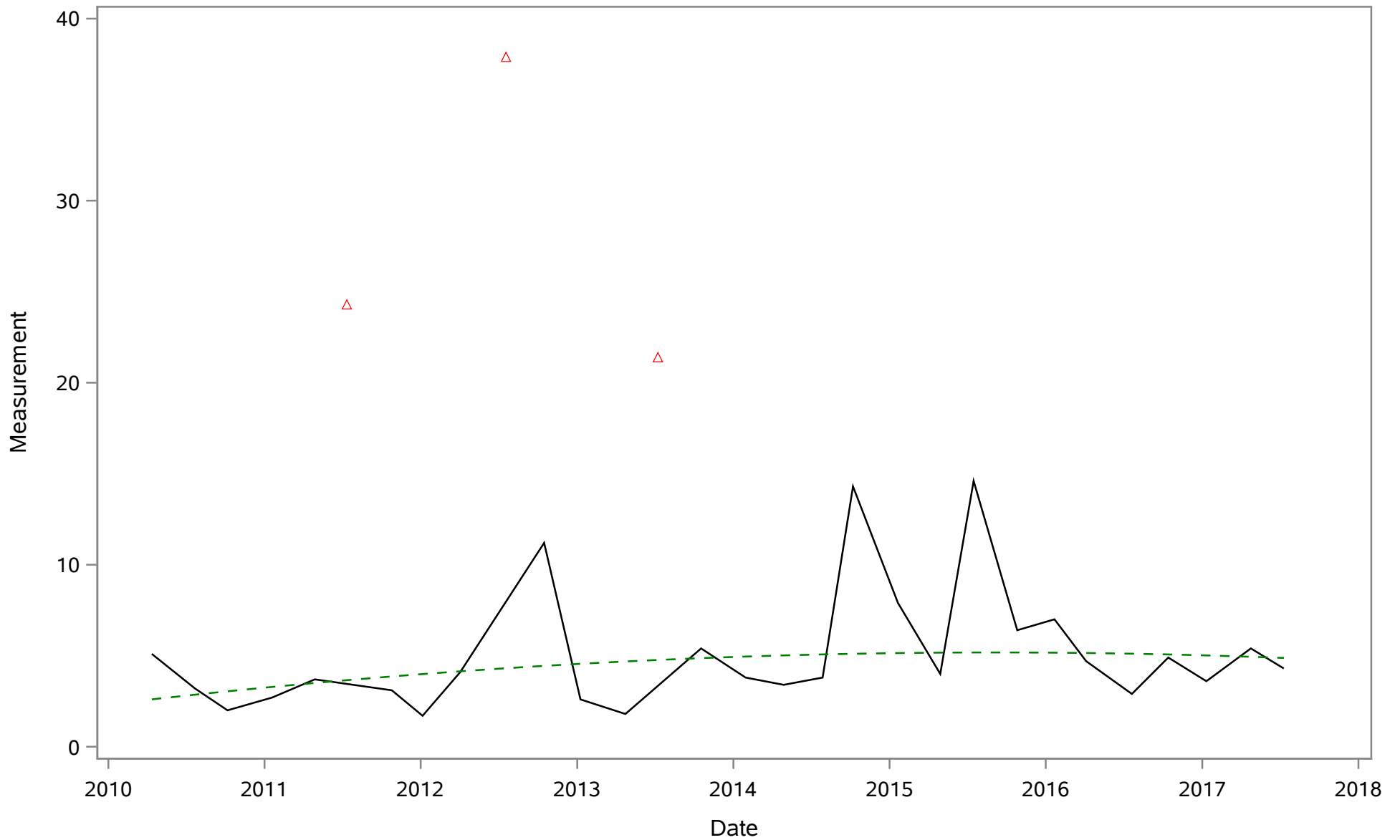


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Chloride (Dissolved) mg/L

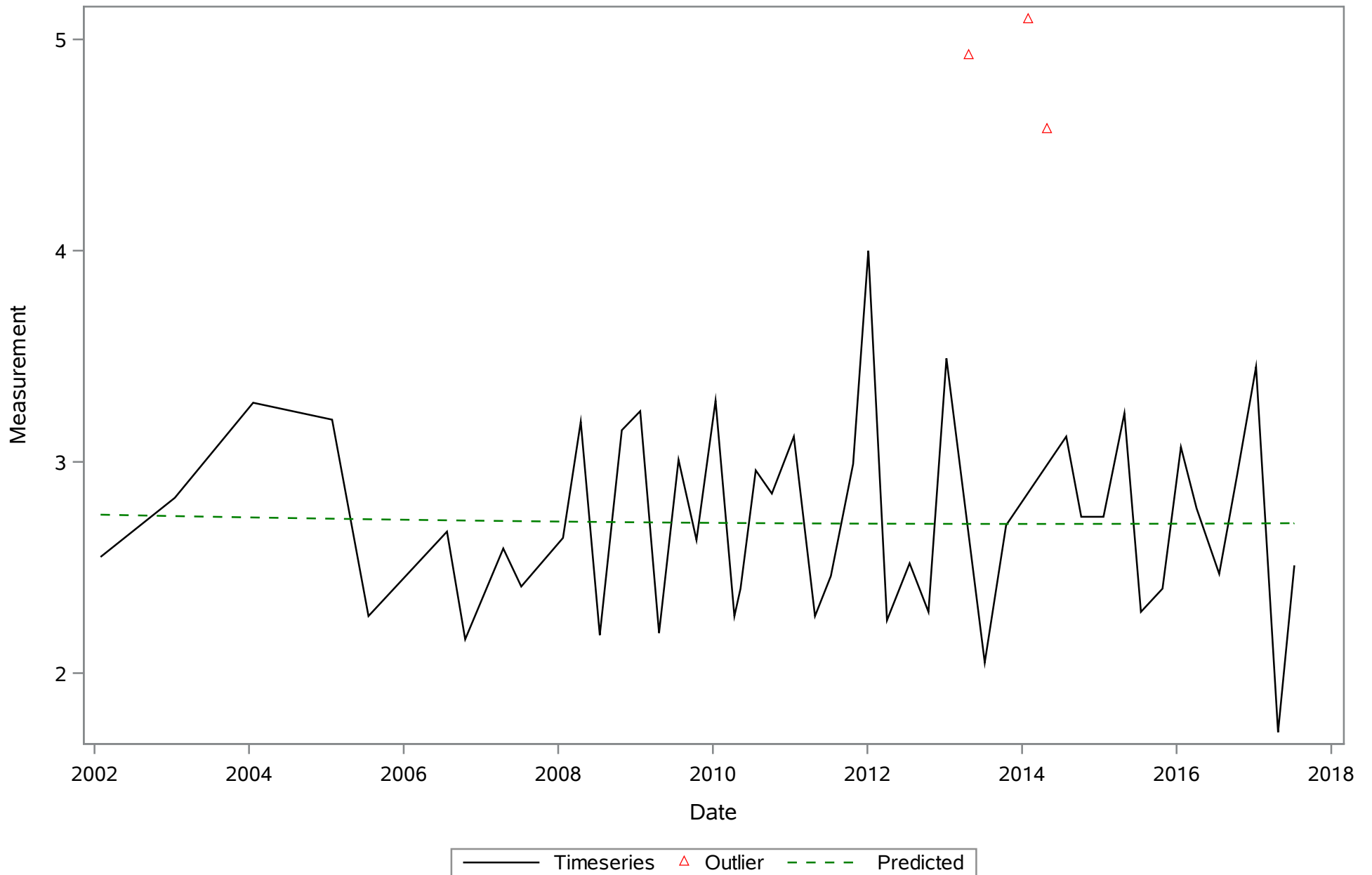


Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Color (Dissolved) PCU

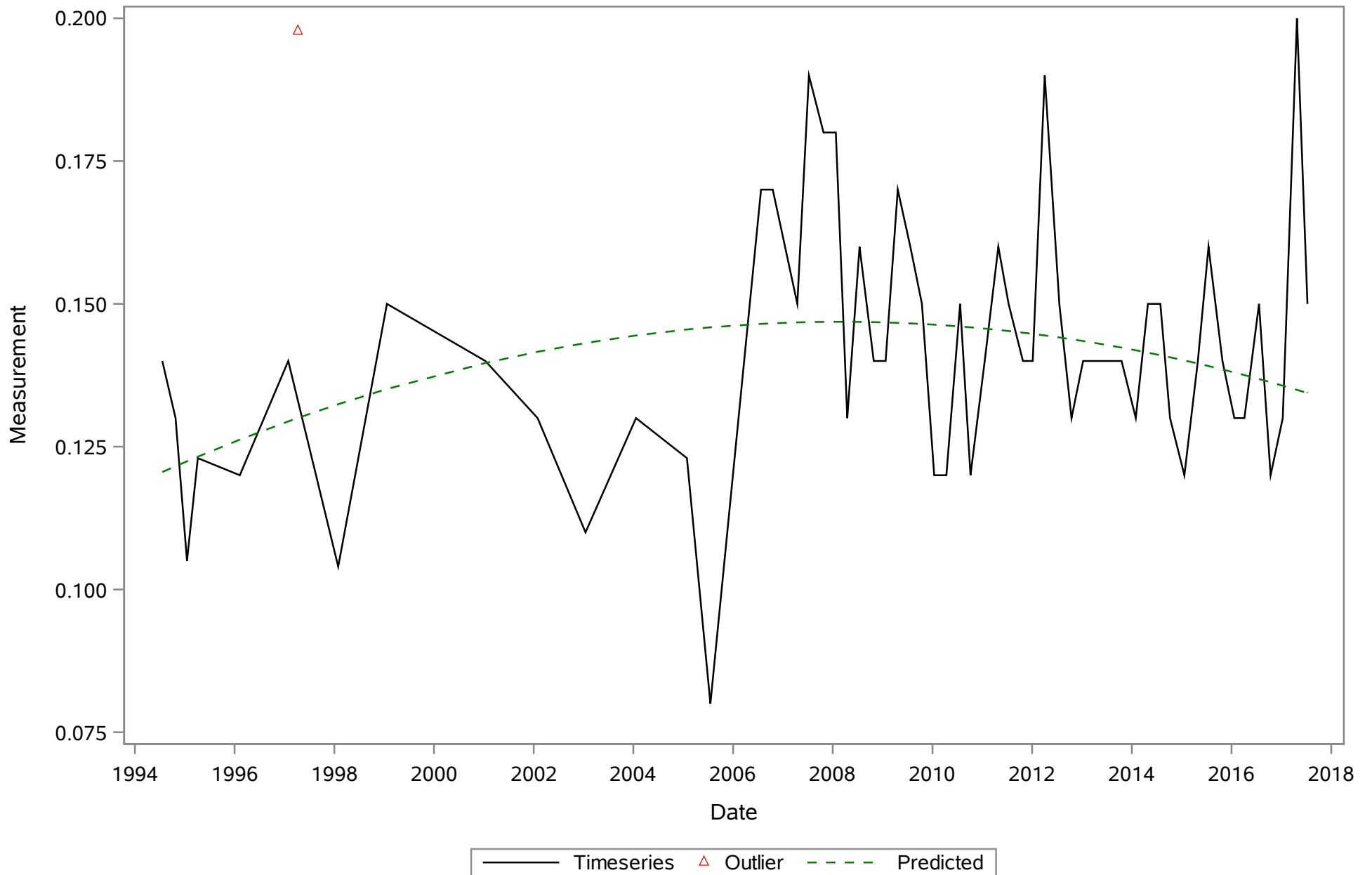


— Timeseries △ Outlier - - - Predicted

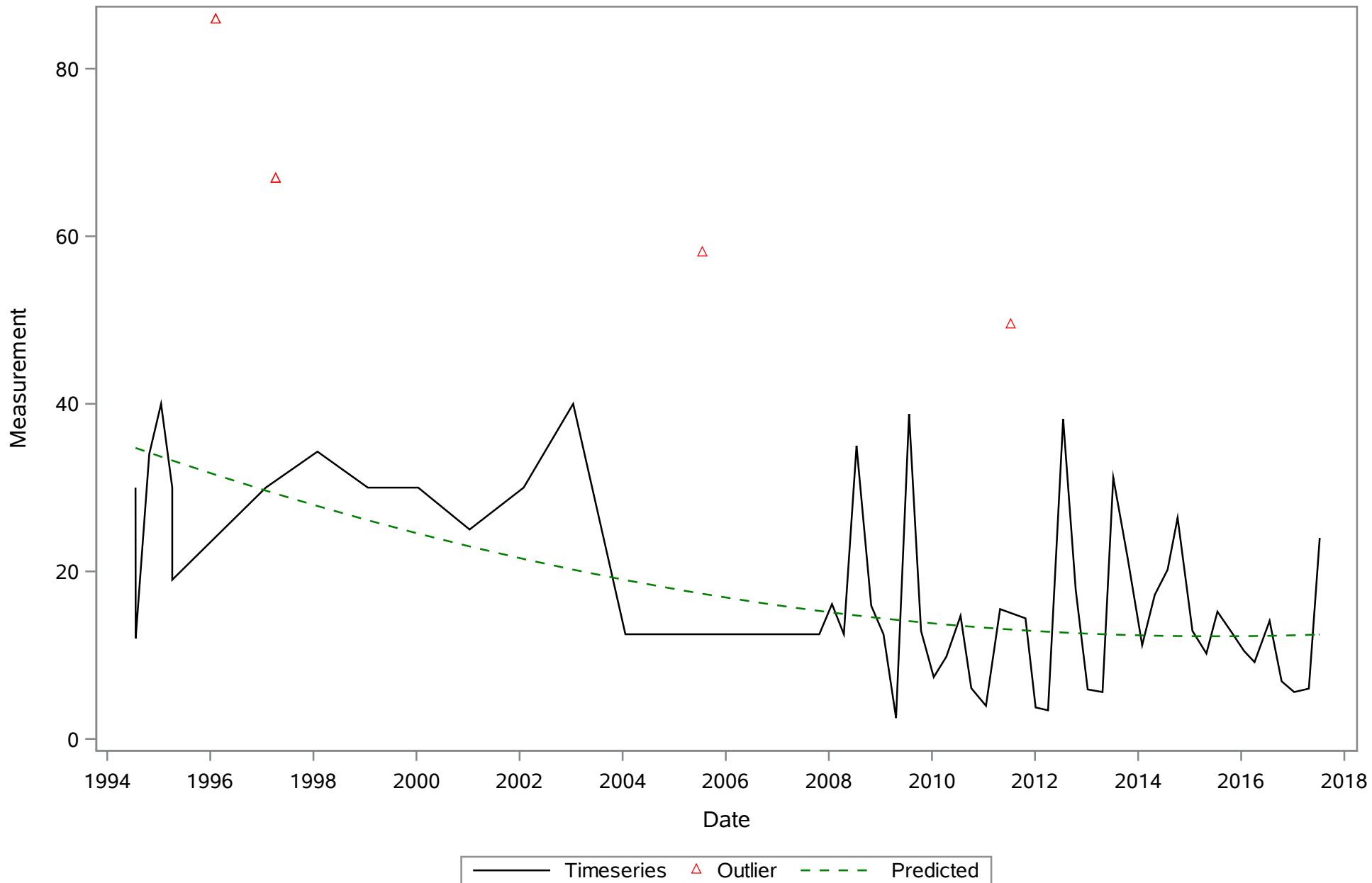
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Dissolved Oxygen (Total) mg/L



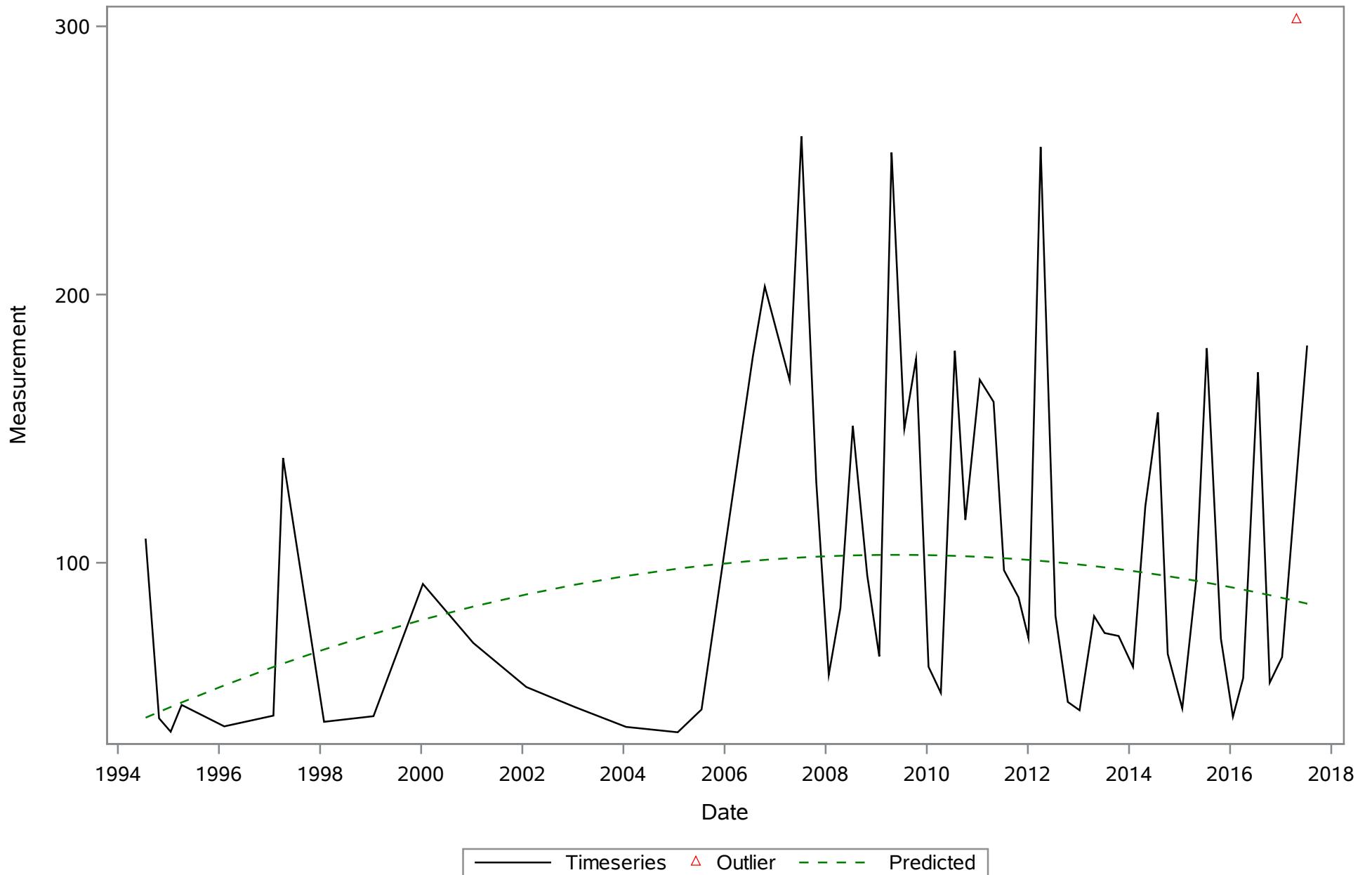
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Fluoride (Dissolved) mg/L



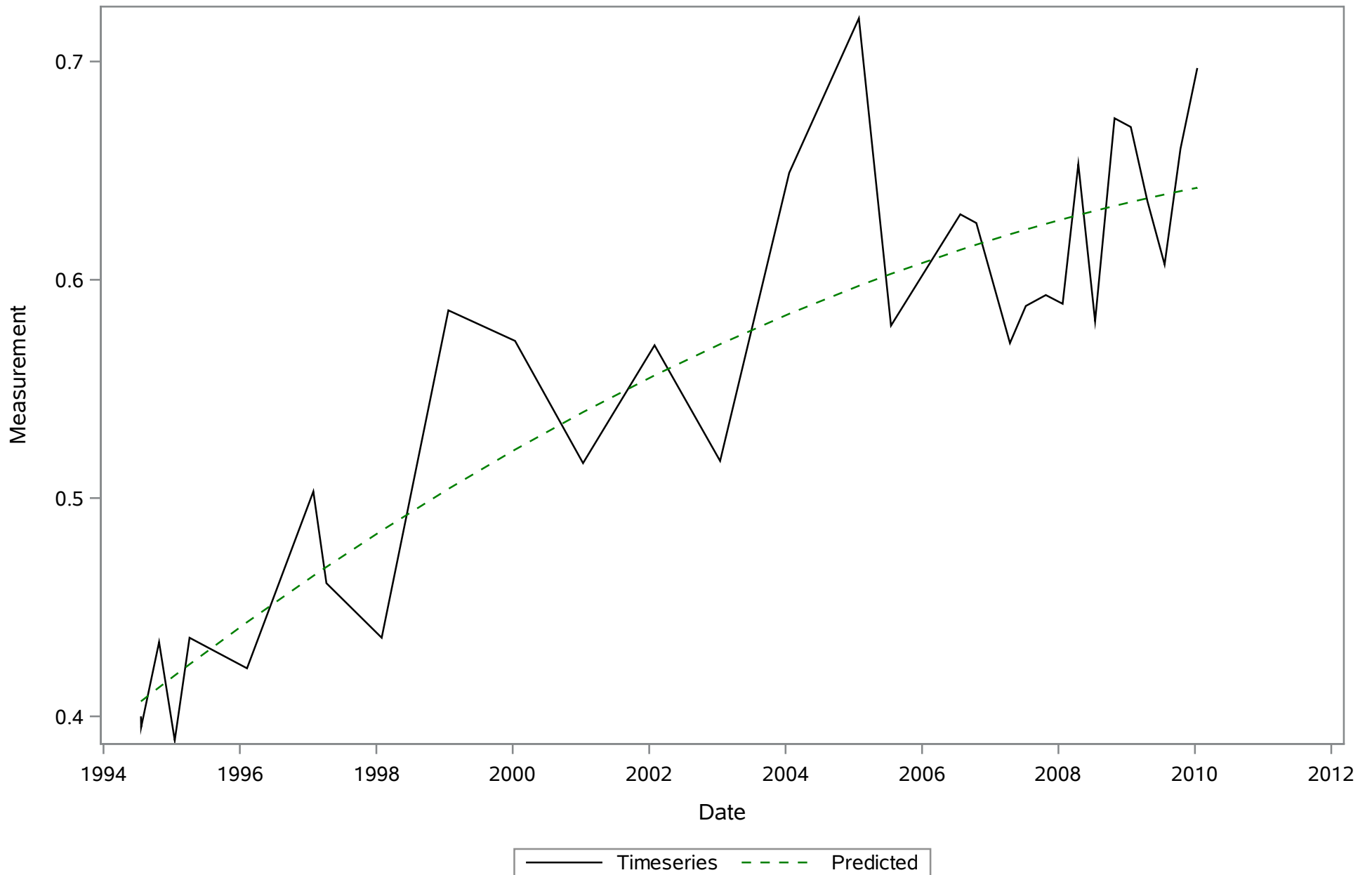
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Iron (Dissolved) ug/L



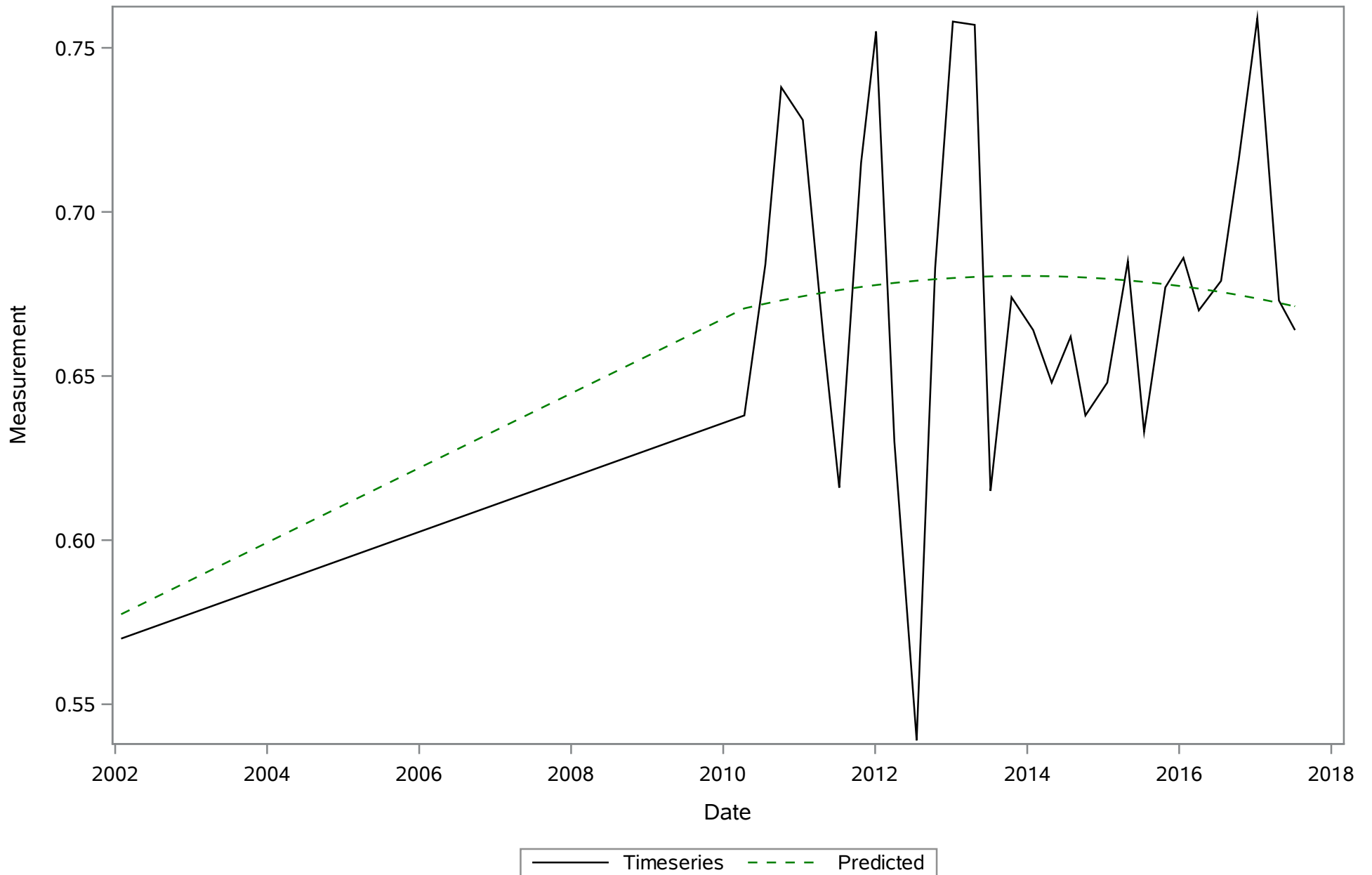
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Magnesium (Dissolved) mg/L



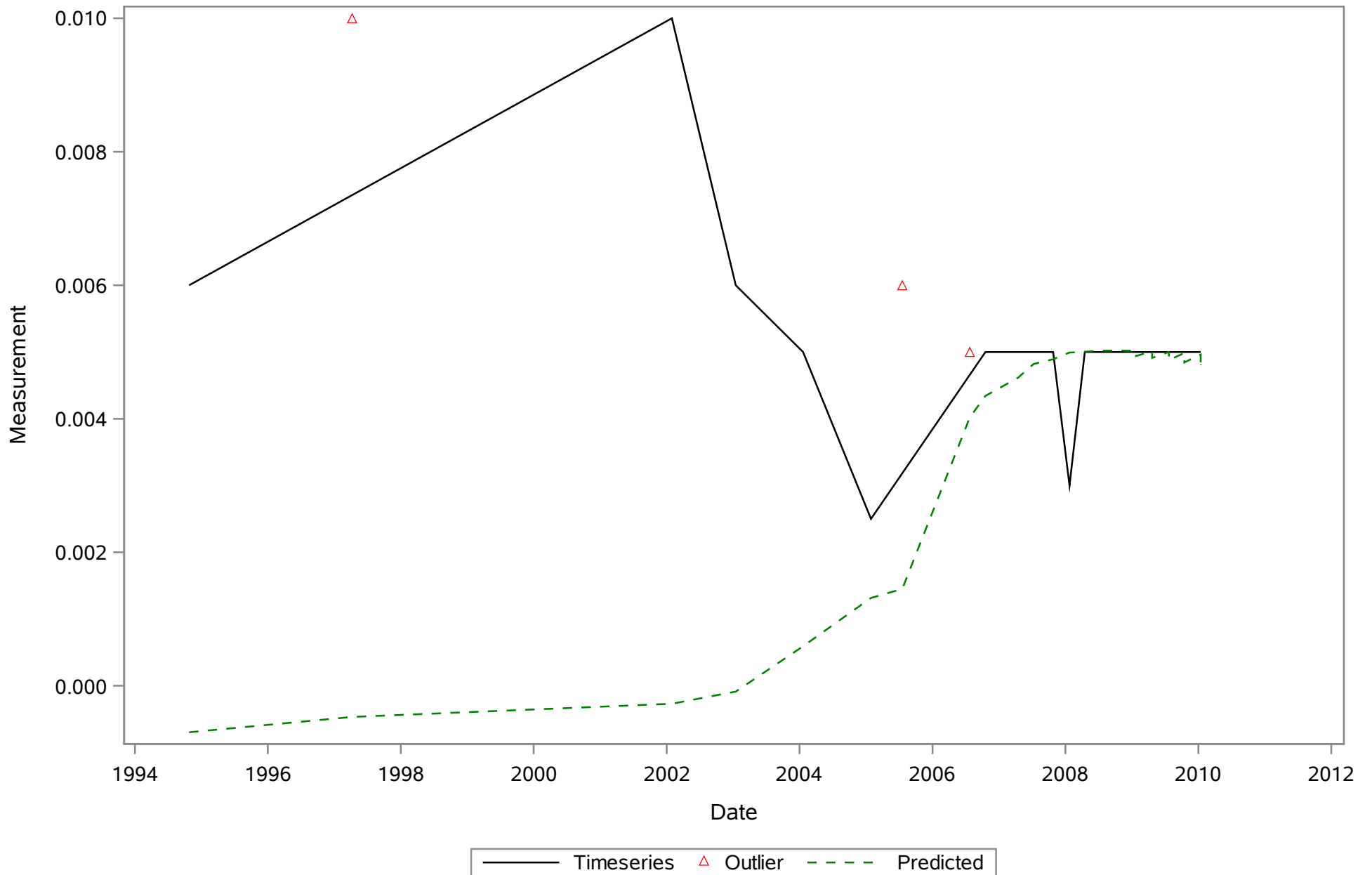
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



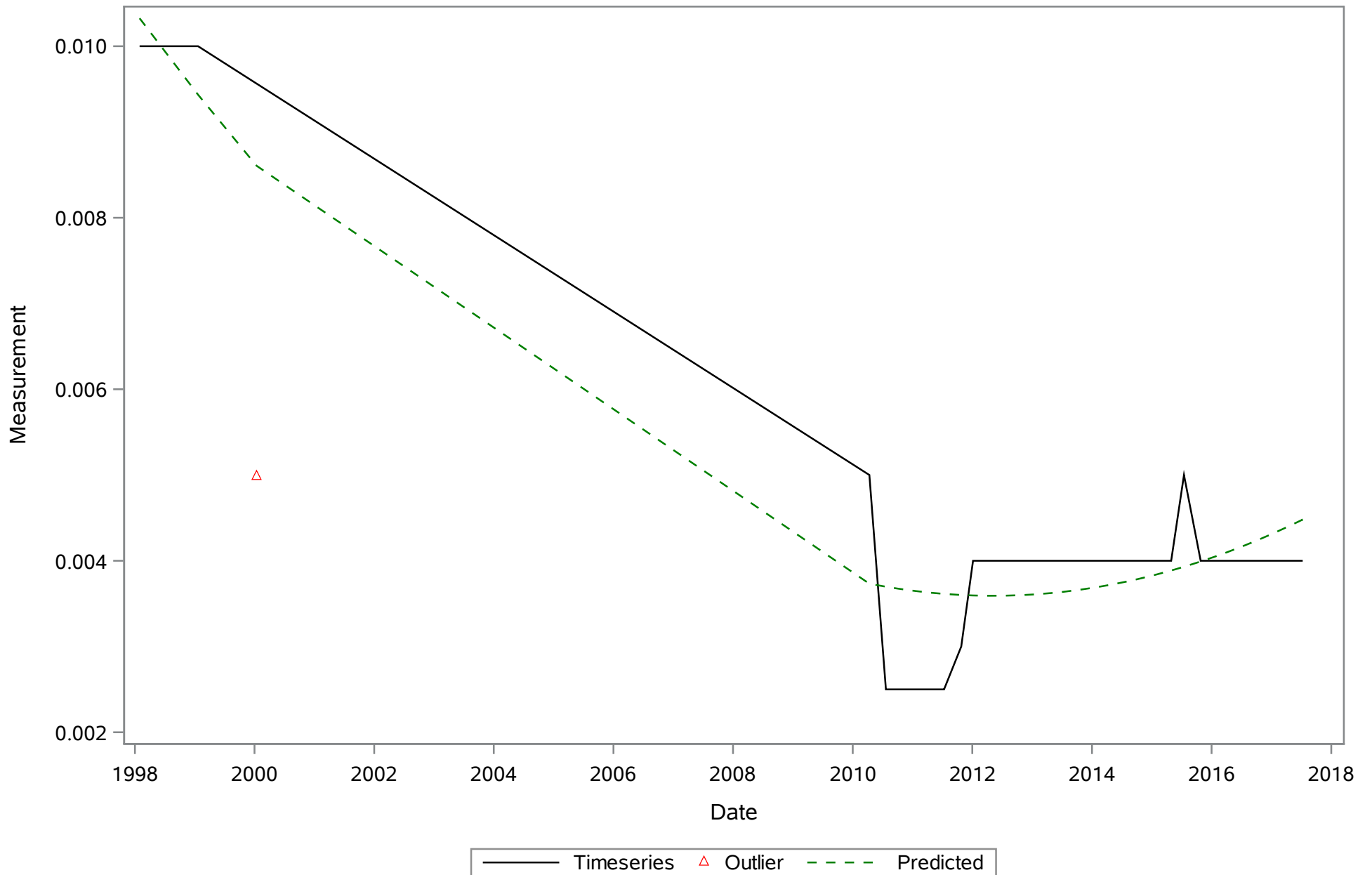
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Total) mg/L



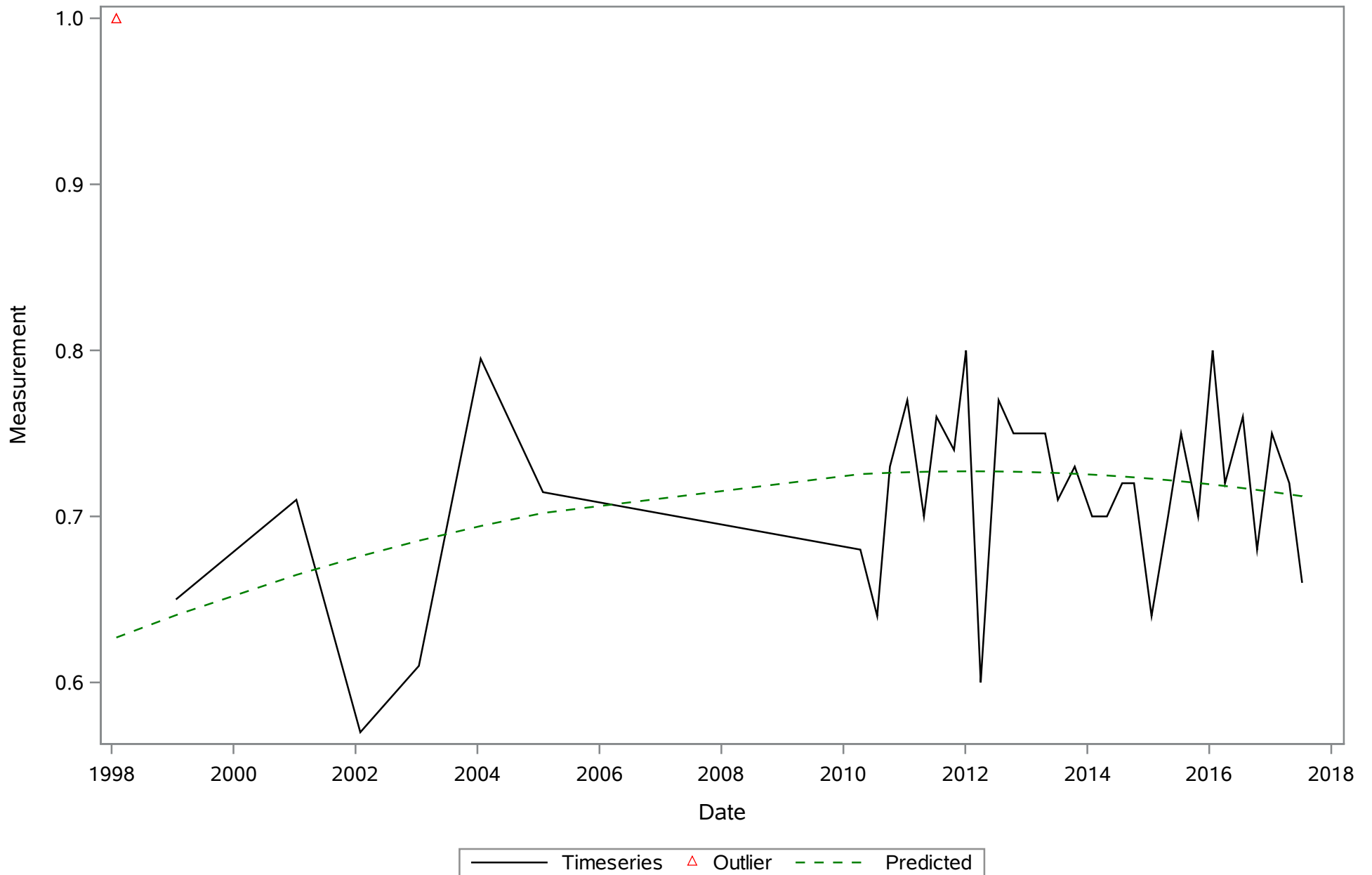
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Dissolved) mg/L



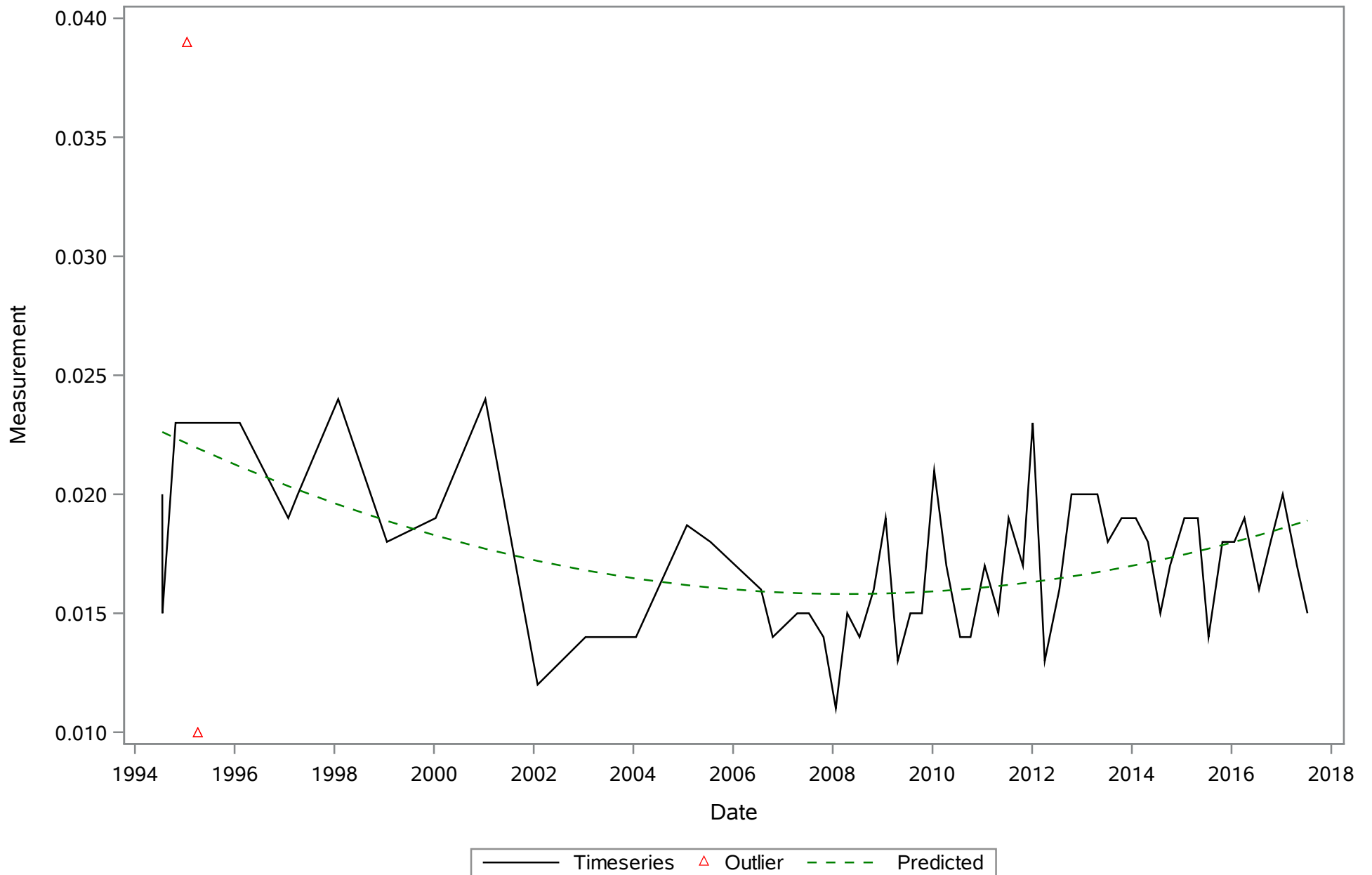
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Total) mg/L



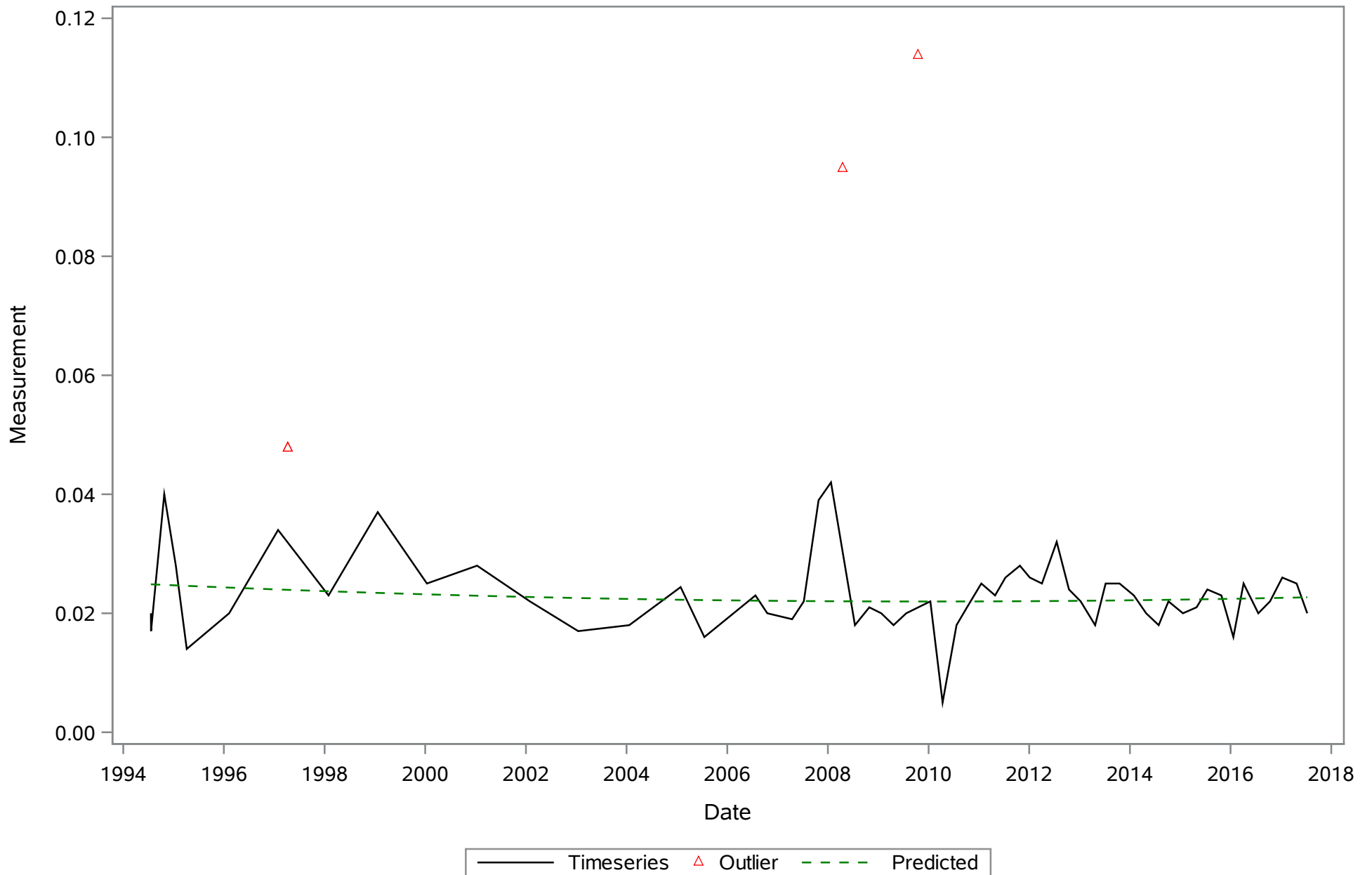
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrogen- Total (Total) mg/L



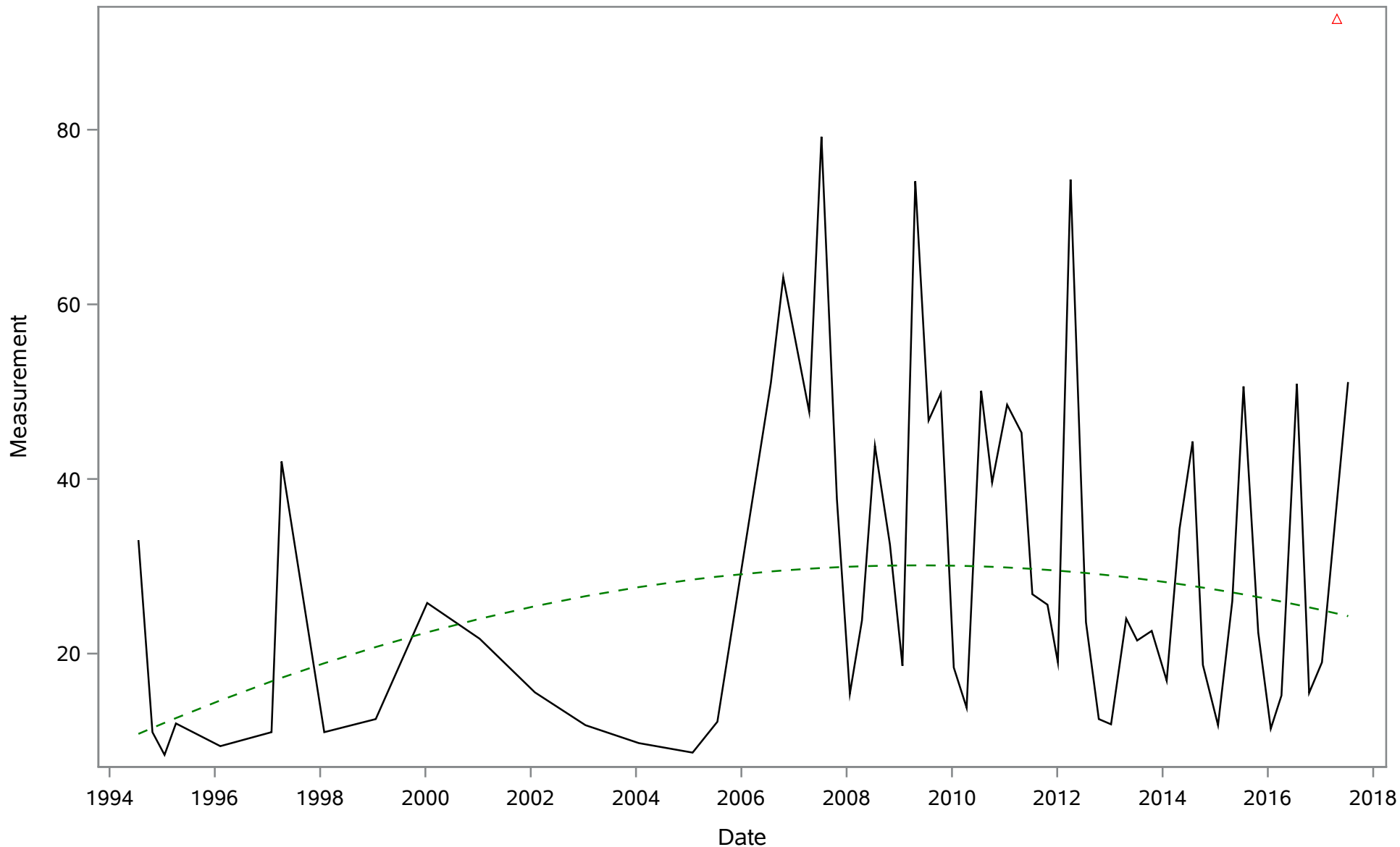
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Orthophosphate (P) (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Phosphorus- Total (Total) mg/L

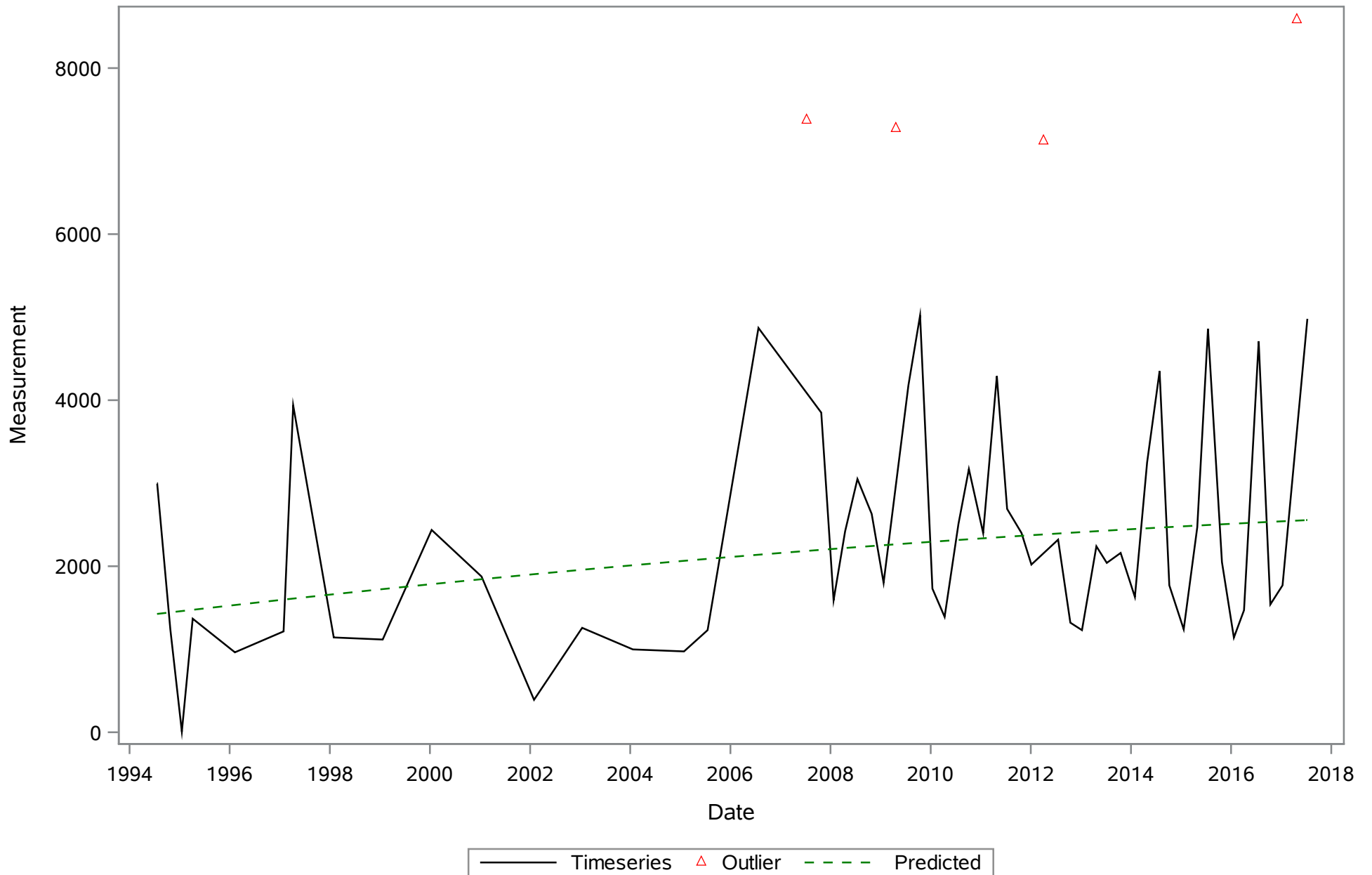


Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Potassium (Dissolved) mg/L

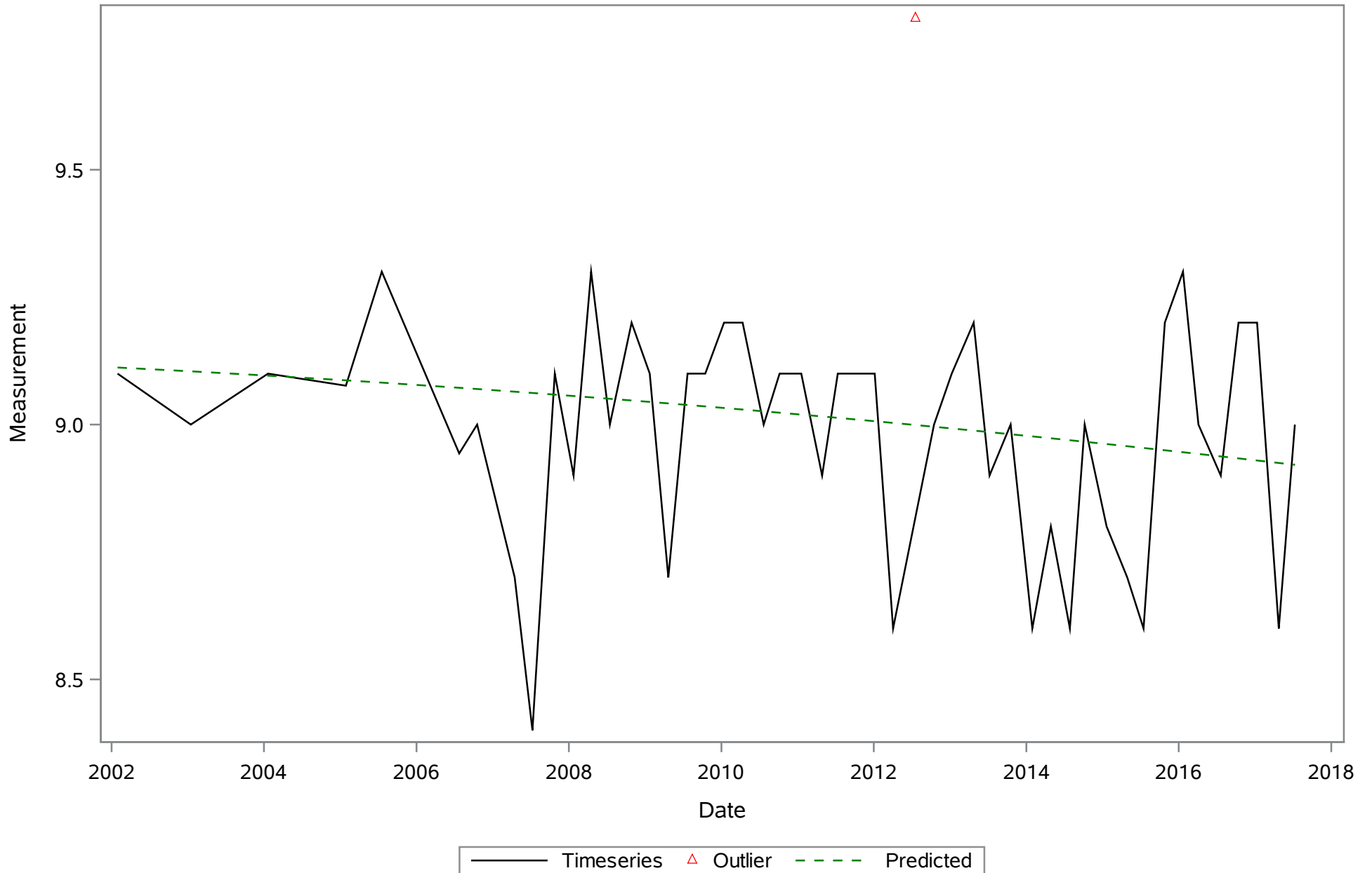


— Timeseries △ Outlier - - - Predicted

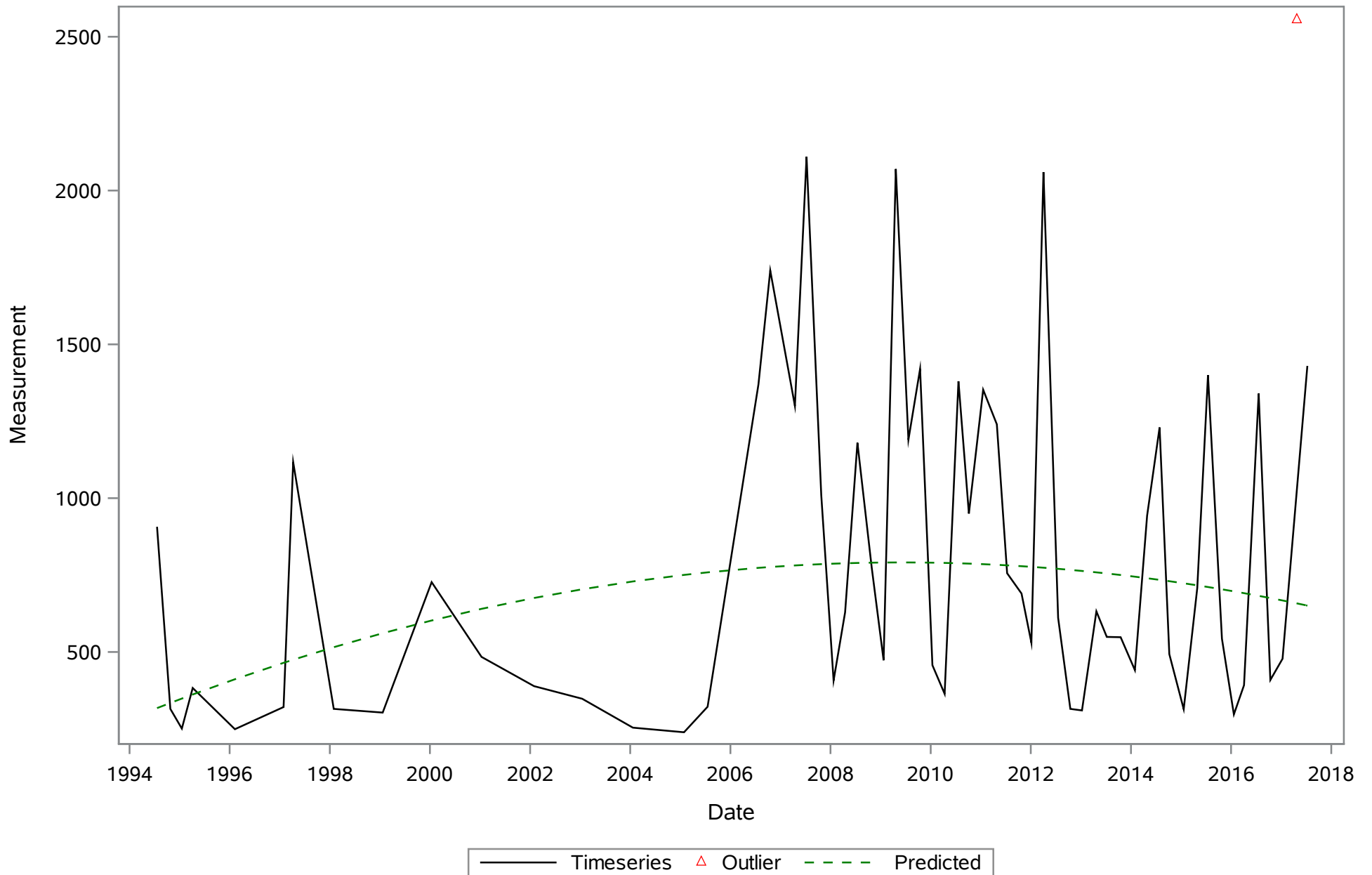
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Residues- Filterable (TDS) (Dissolved) mg/L



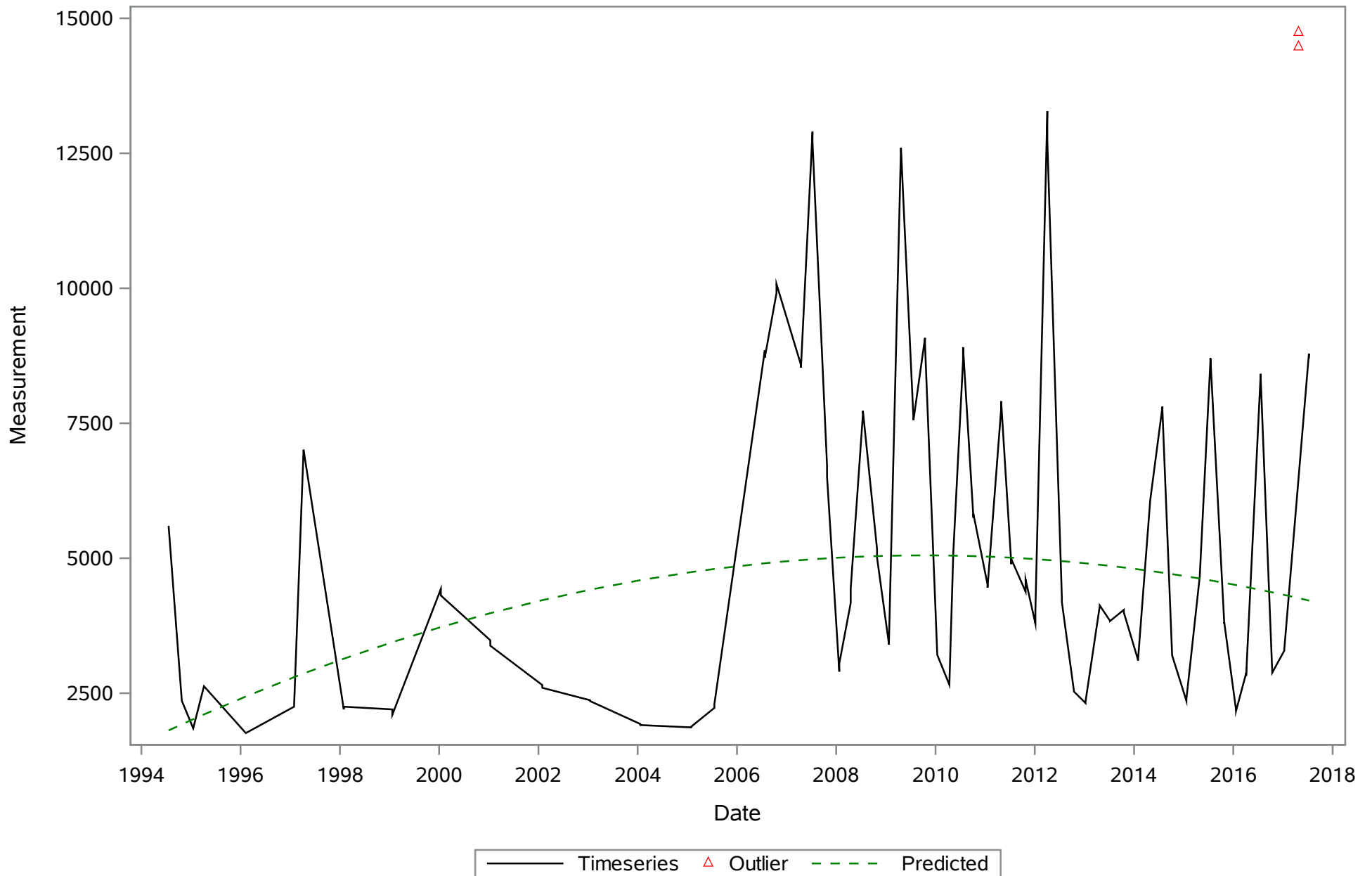
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Silica- Dissolved (Dissolved) mg/L



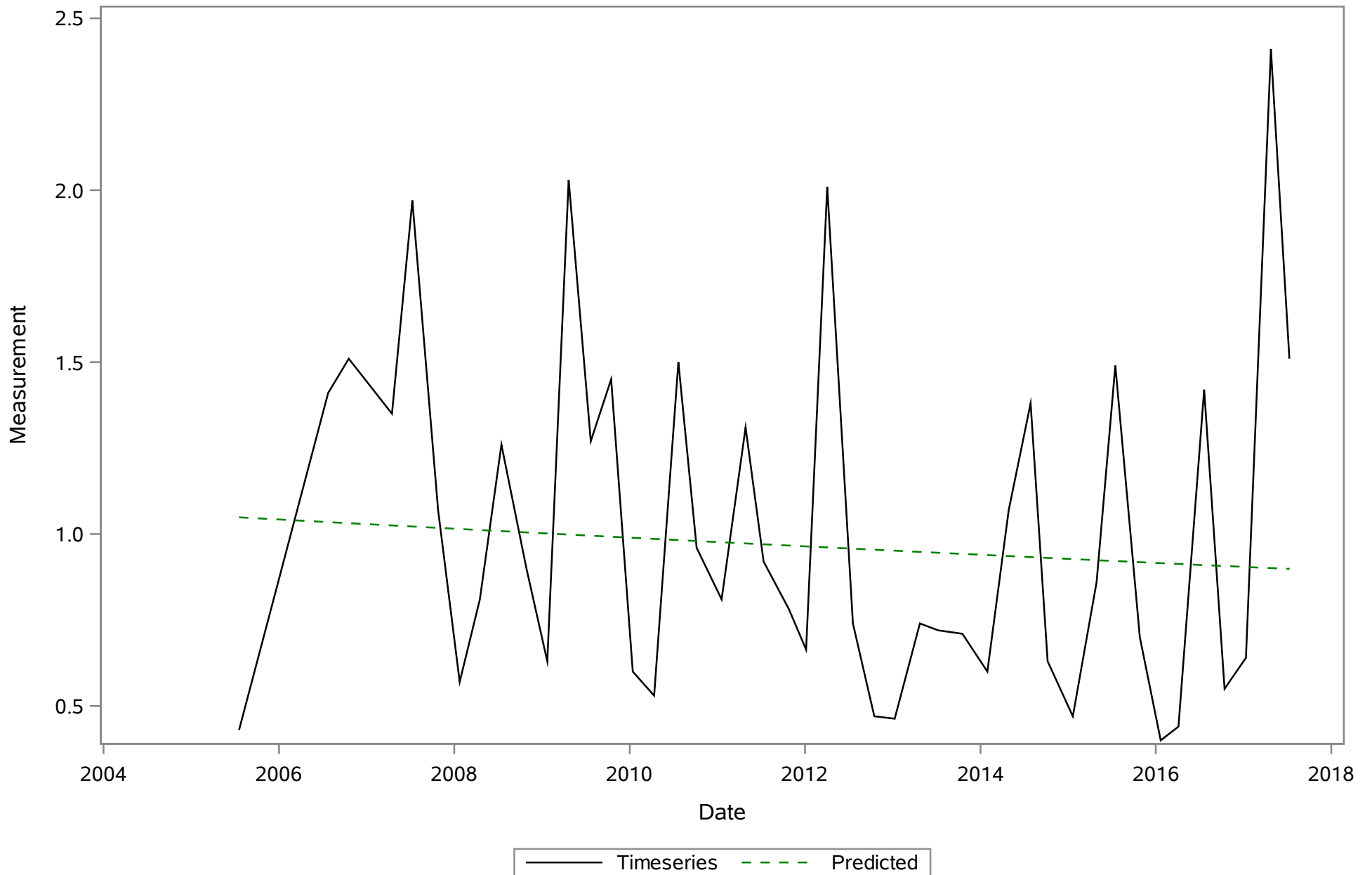
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sodium (Dissolved) mg/L



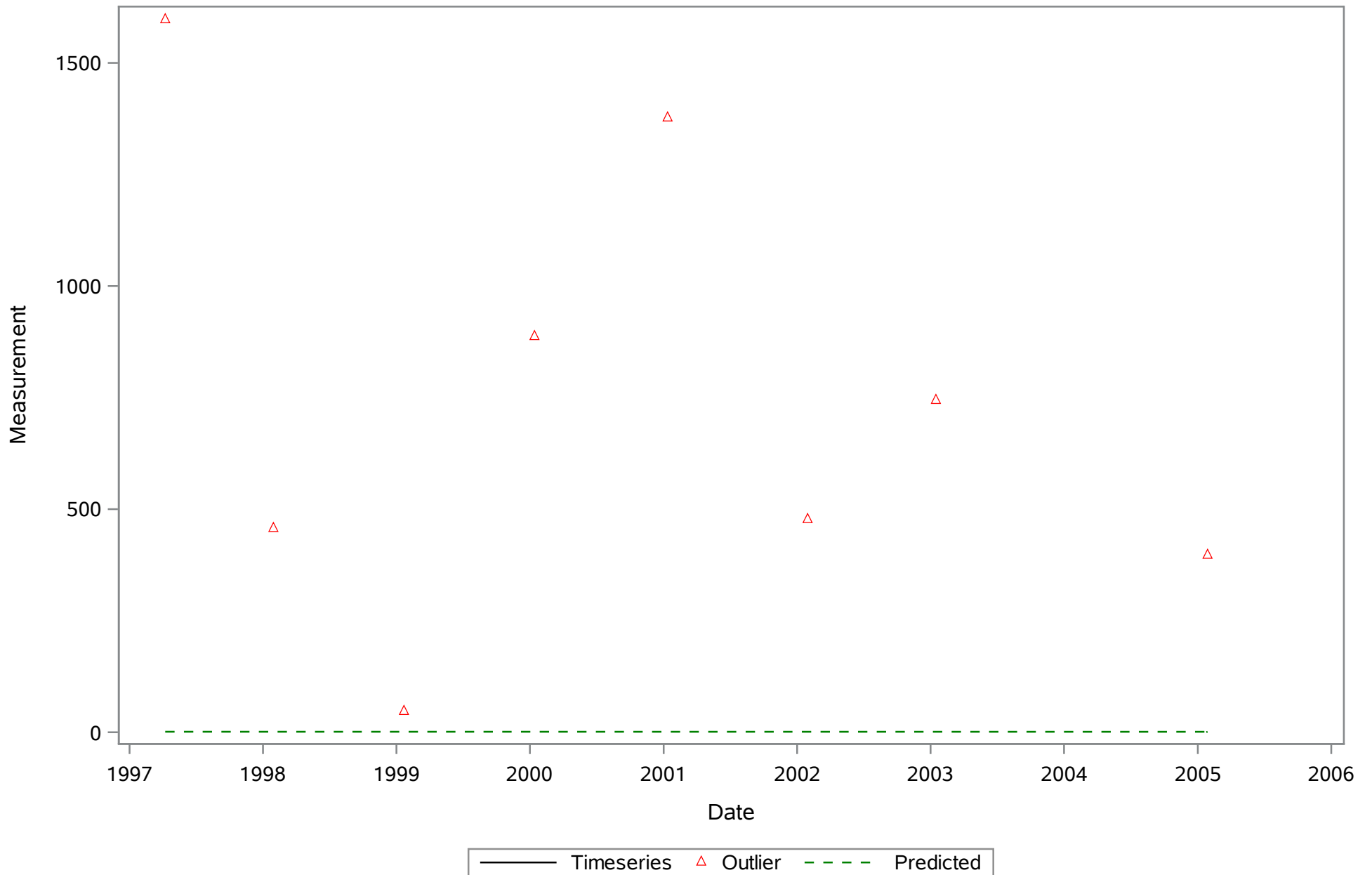
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Specific Conductance (Total) uS/cm



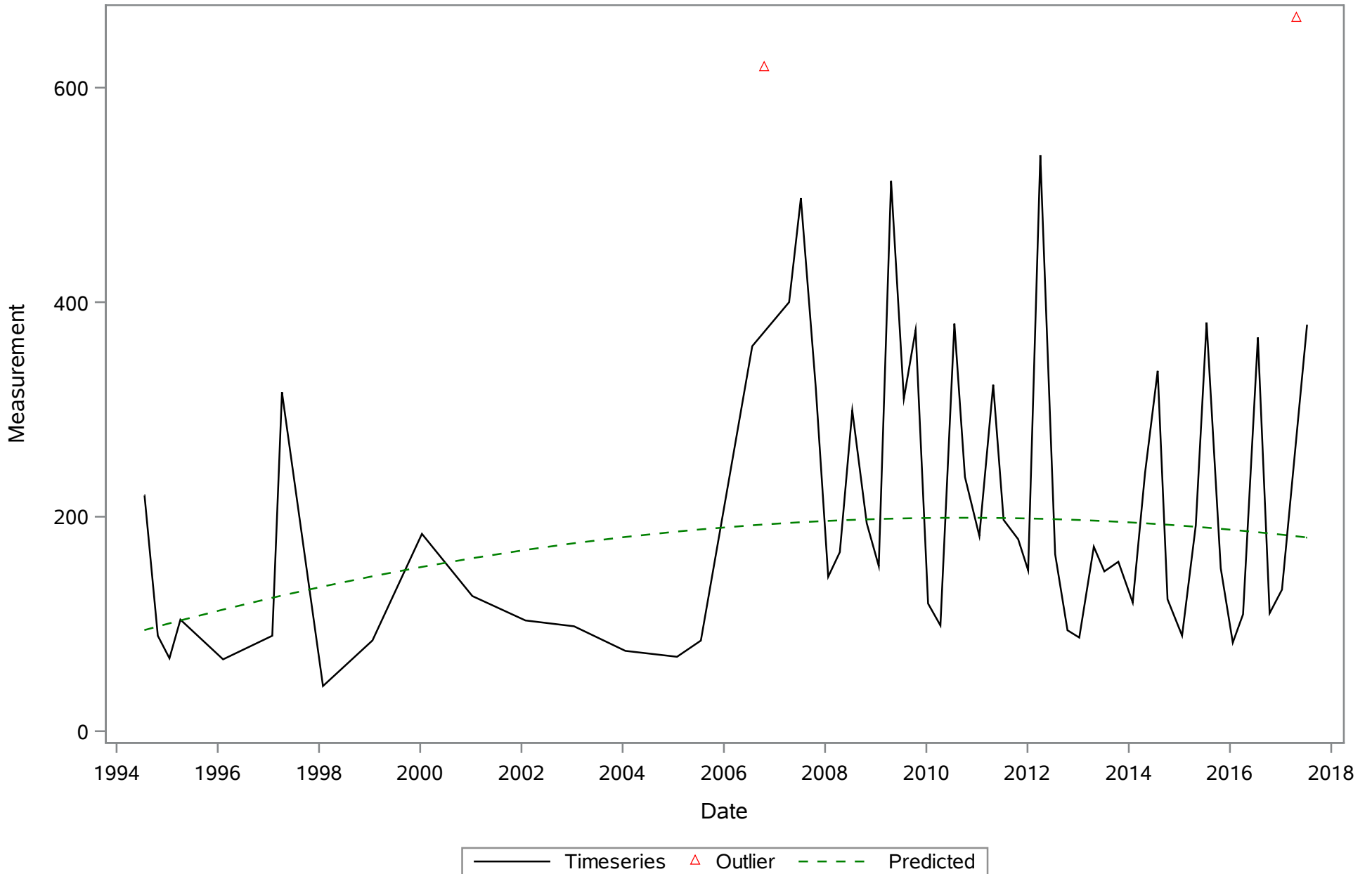
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) mg/L



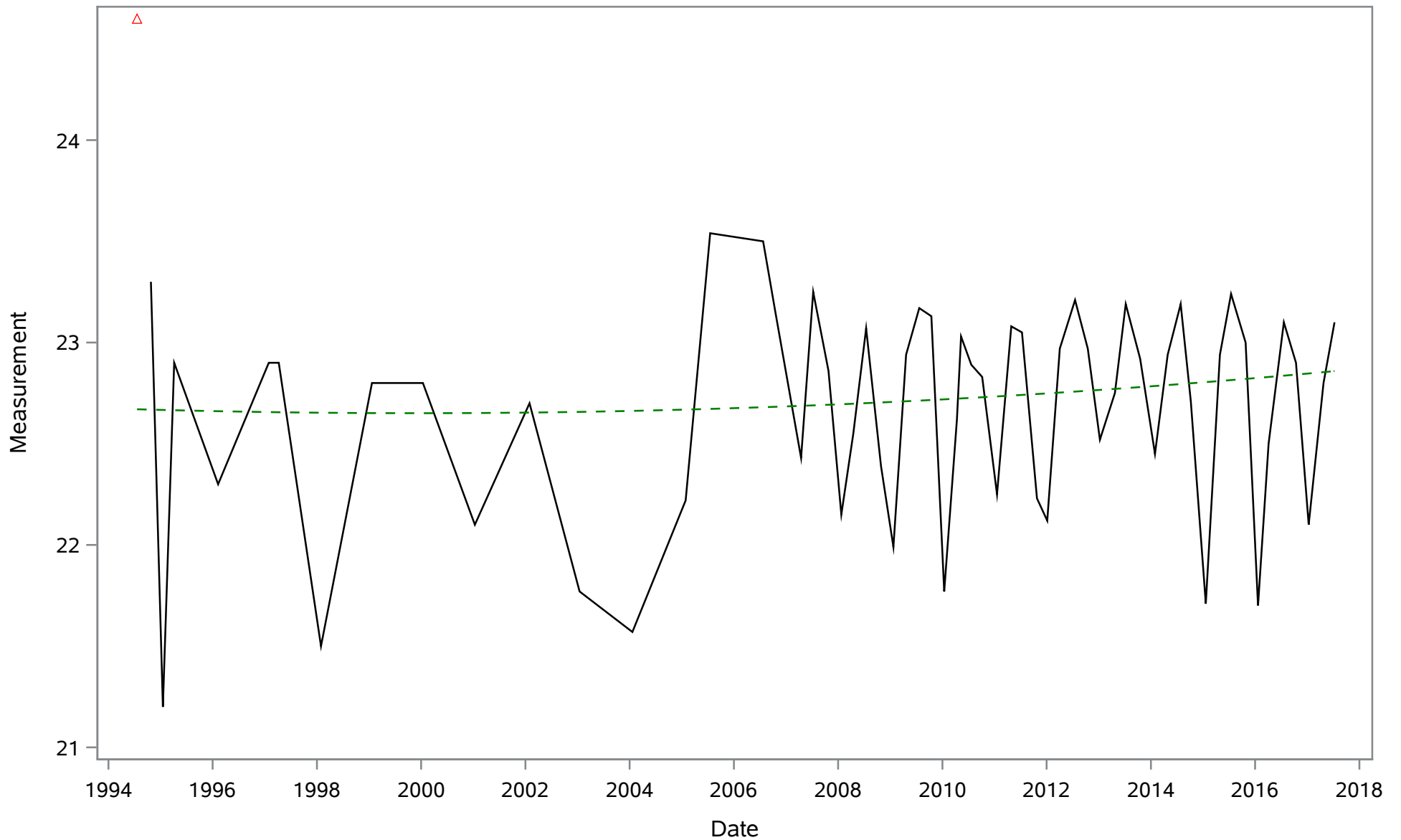
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sulfate (Dissolved) mg/L

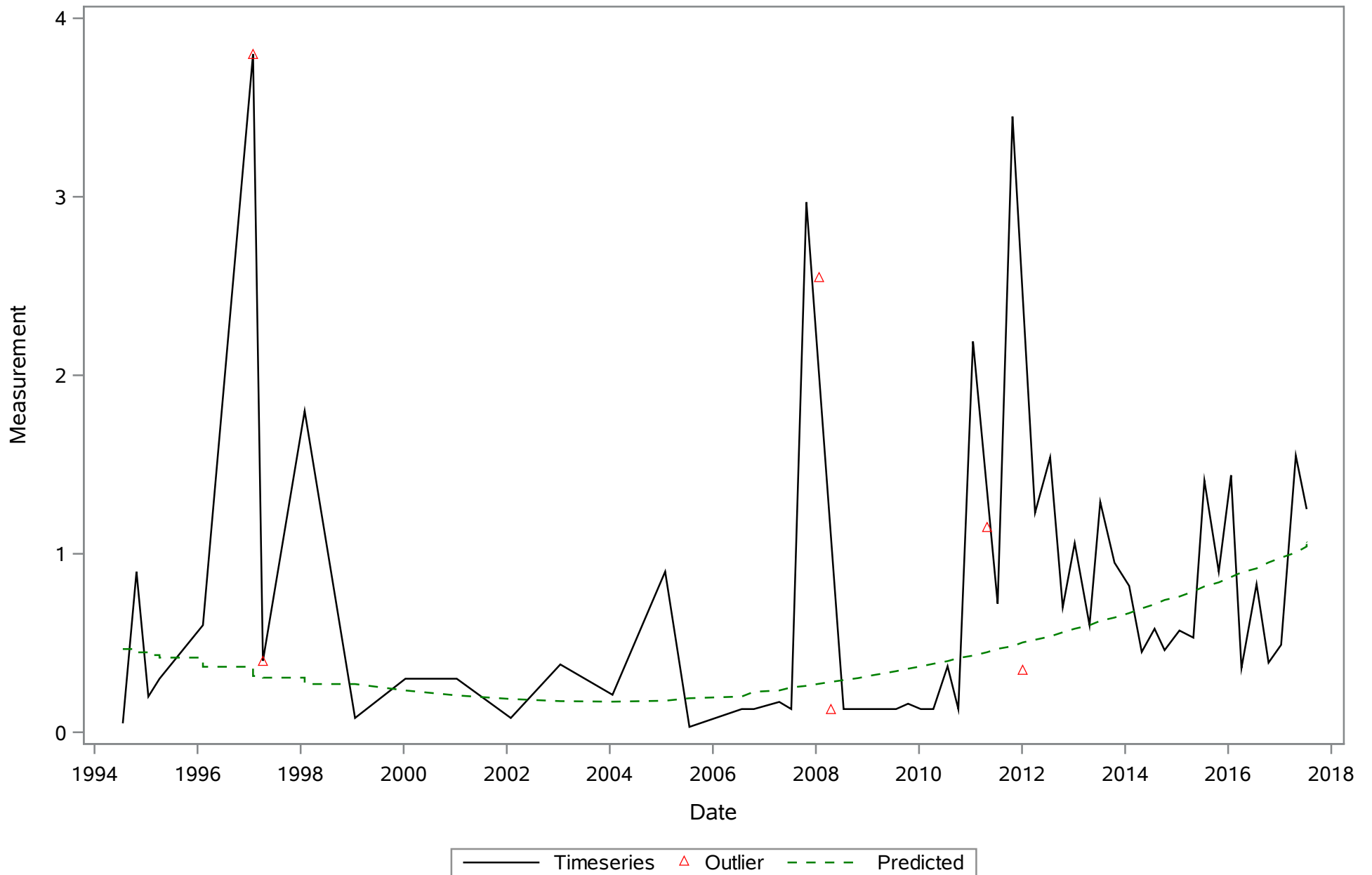


Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Temperature (Total) Deg. C

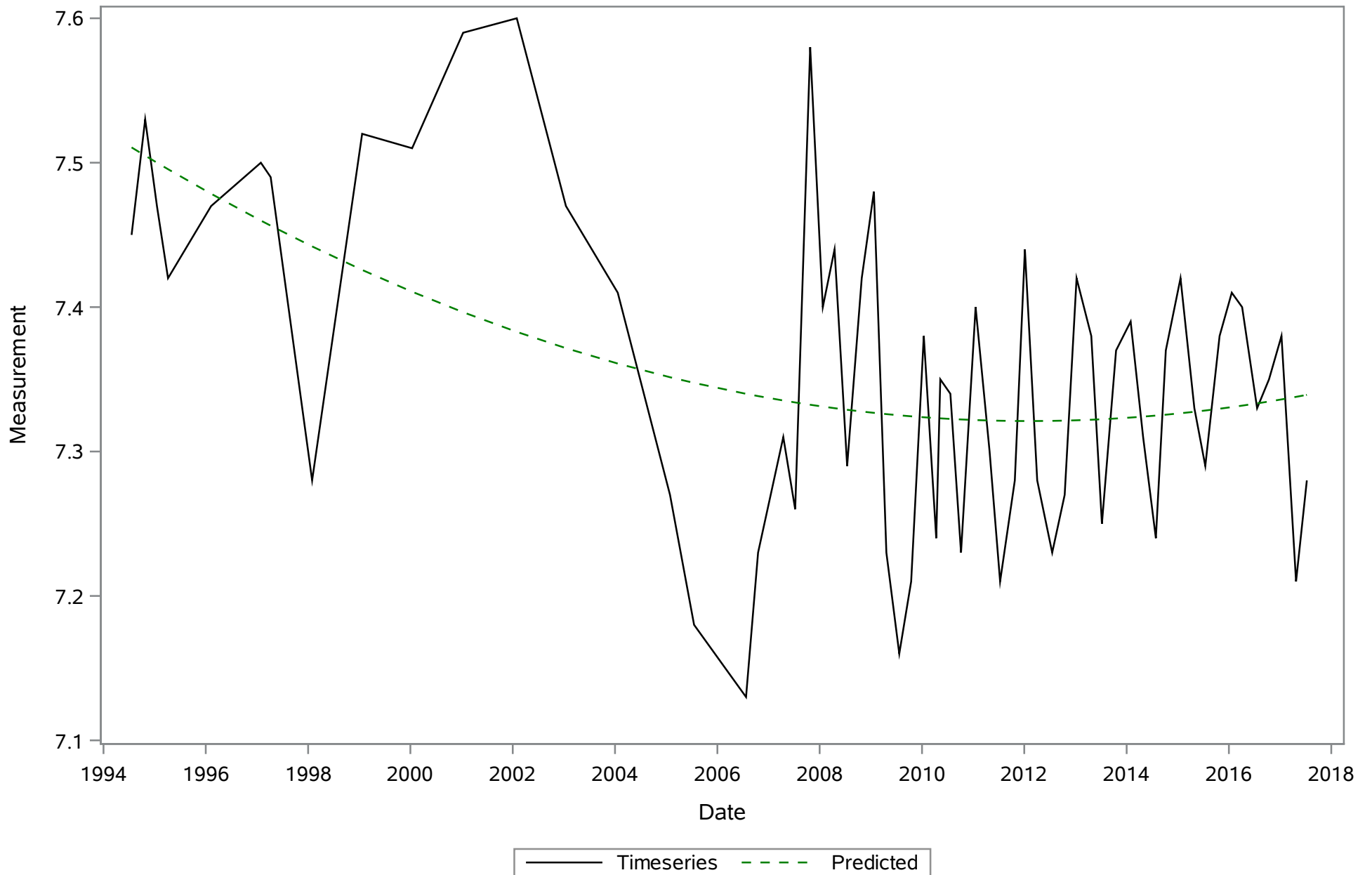


— Timeseries △ Outlier - - - Predicted

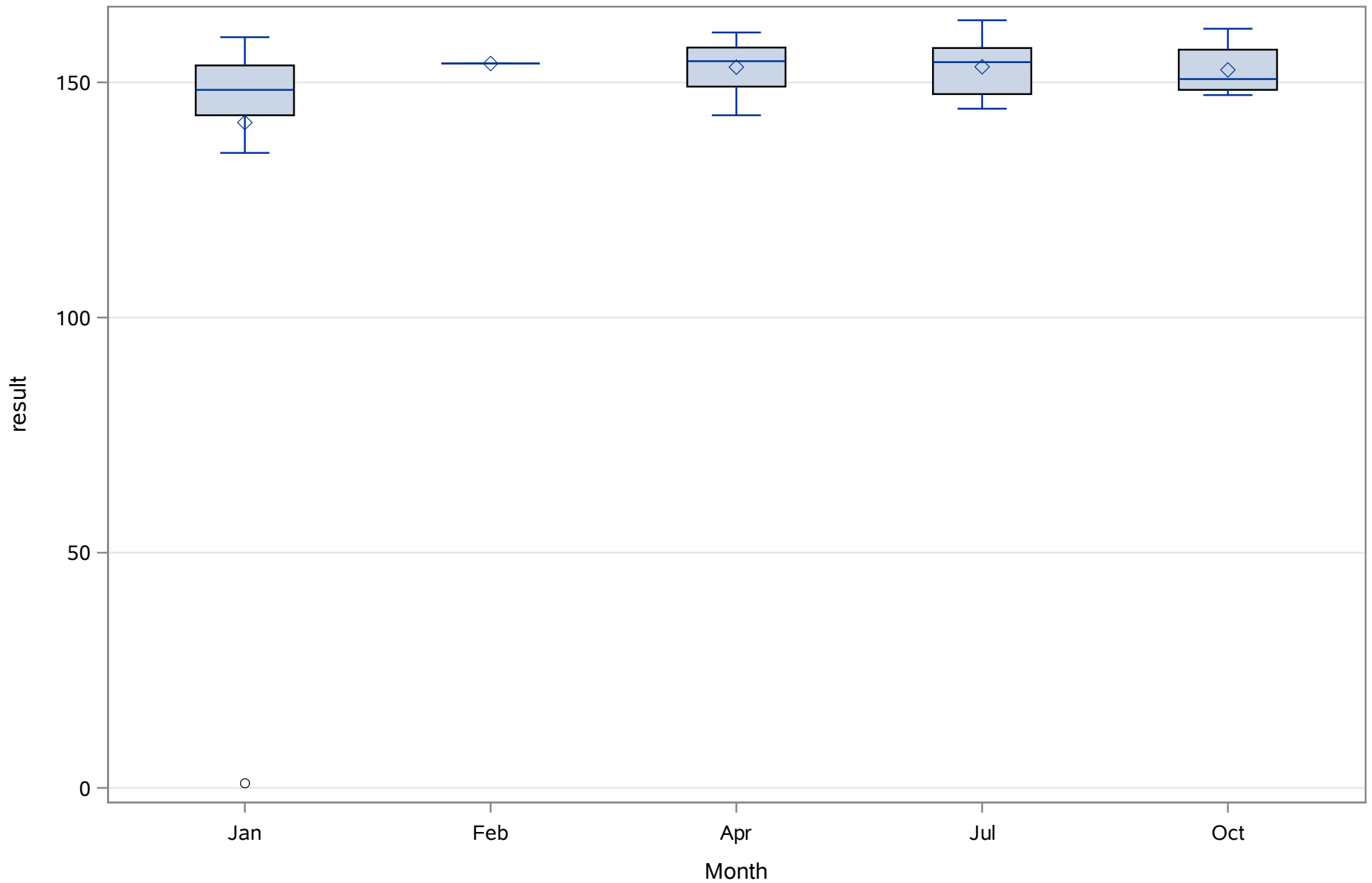
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Turbidity (Total) NTU



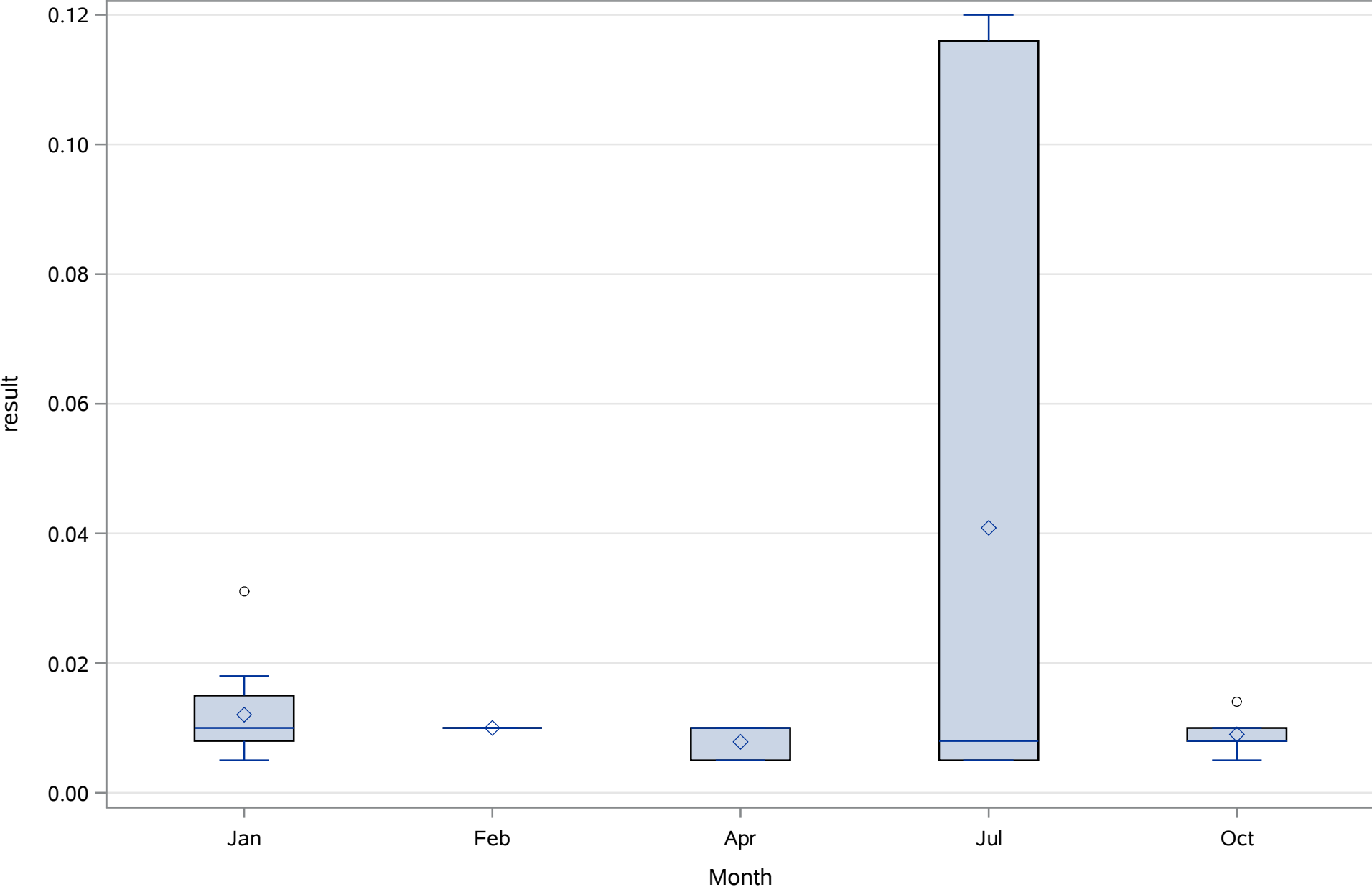
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
pH (Total) SU



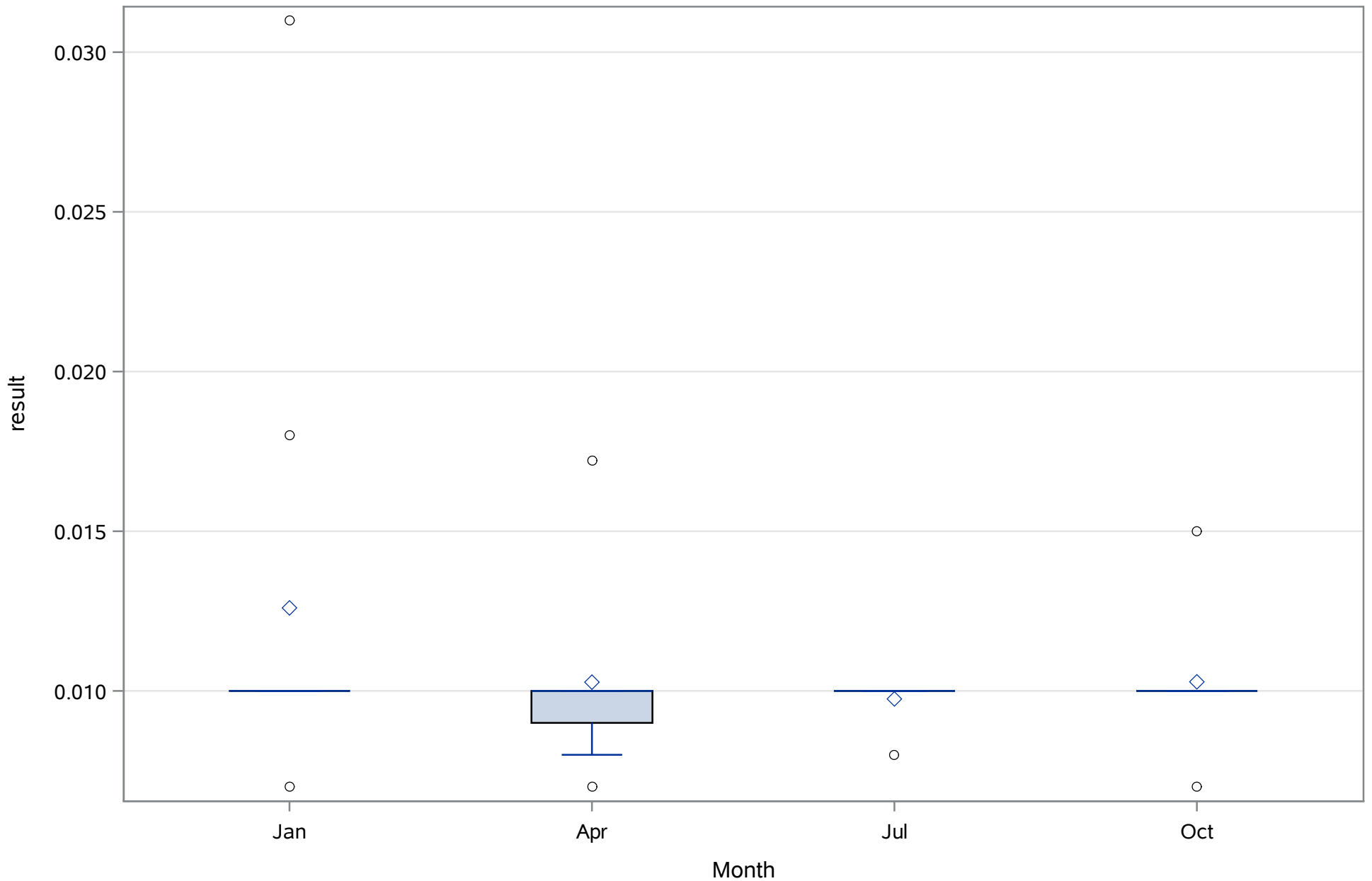
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Alkalinity (Total) mg/L



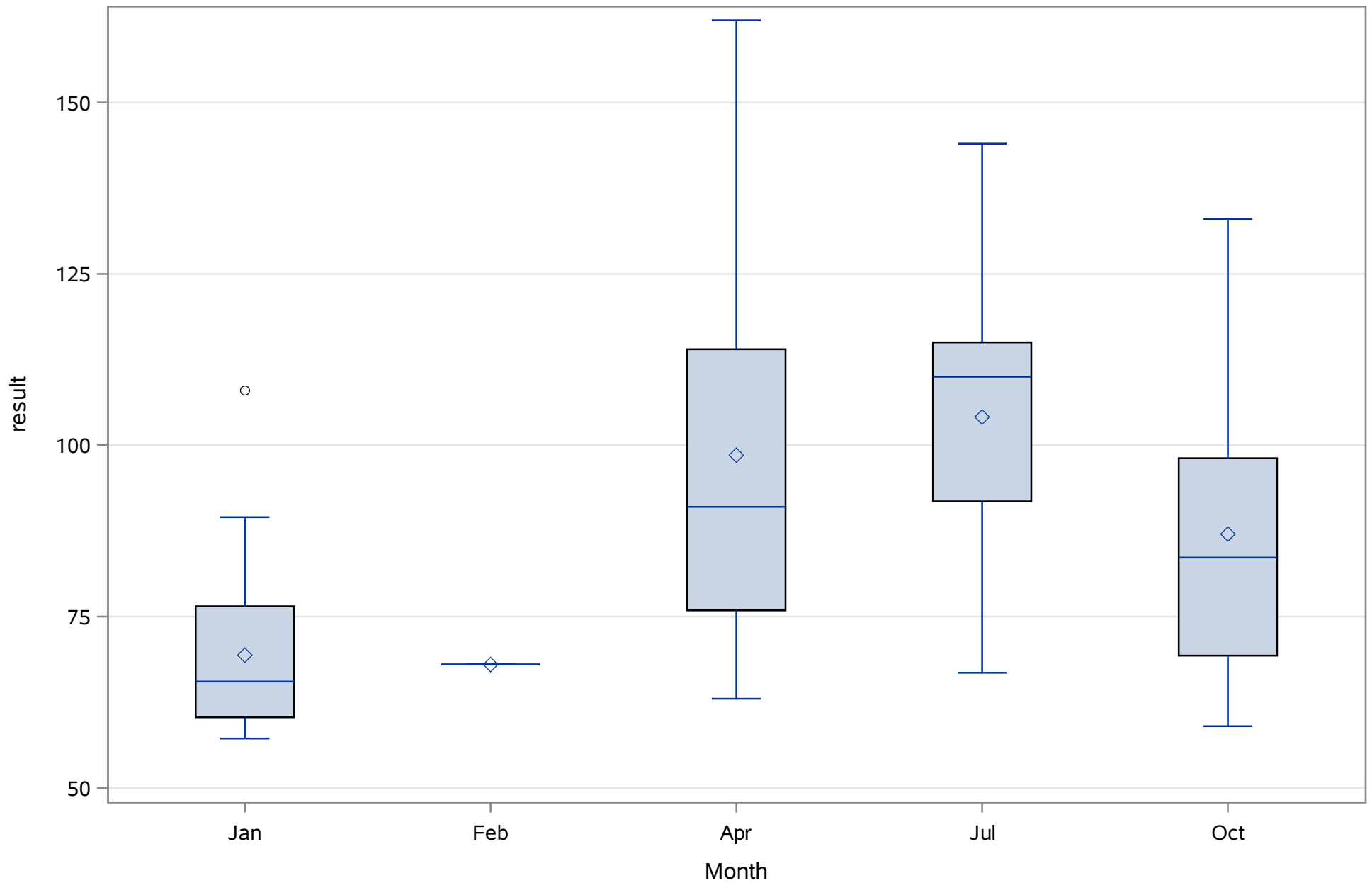
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Dissolved) mg/L



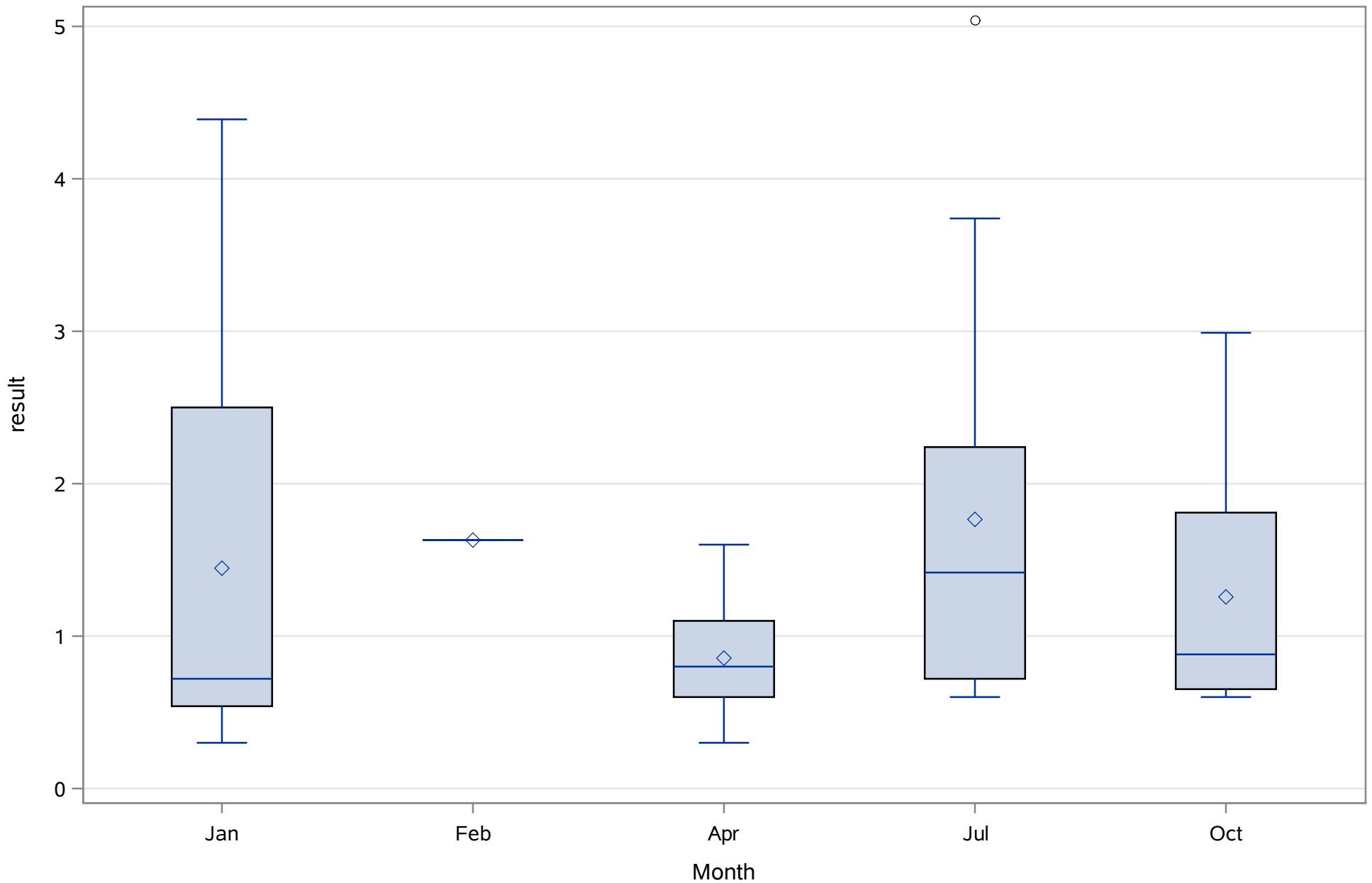
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Ammonia (N) (Total) mg/L



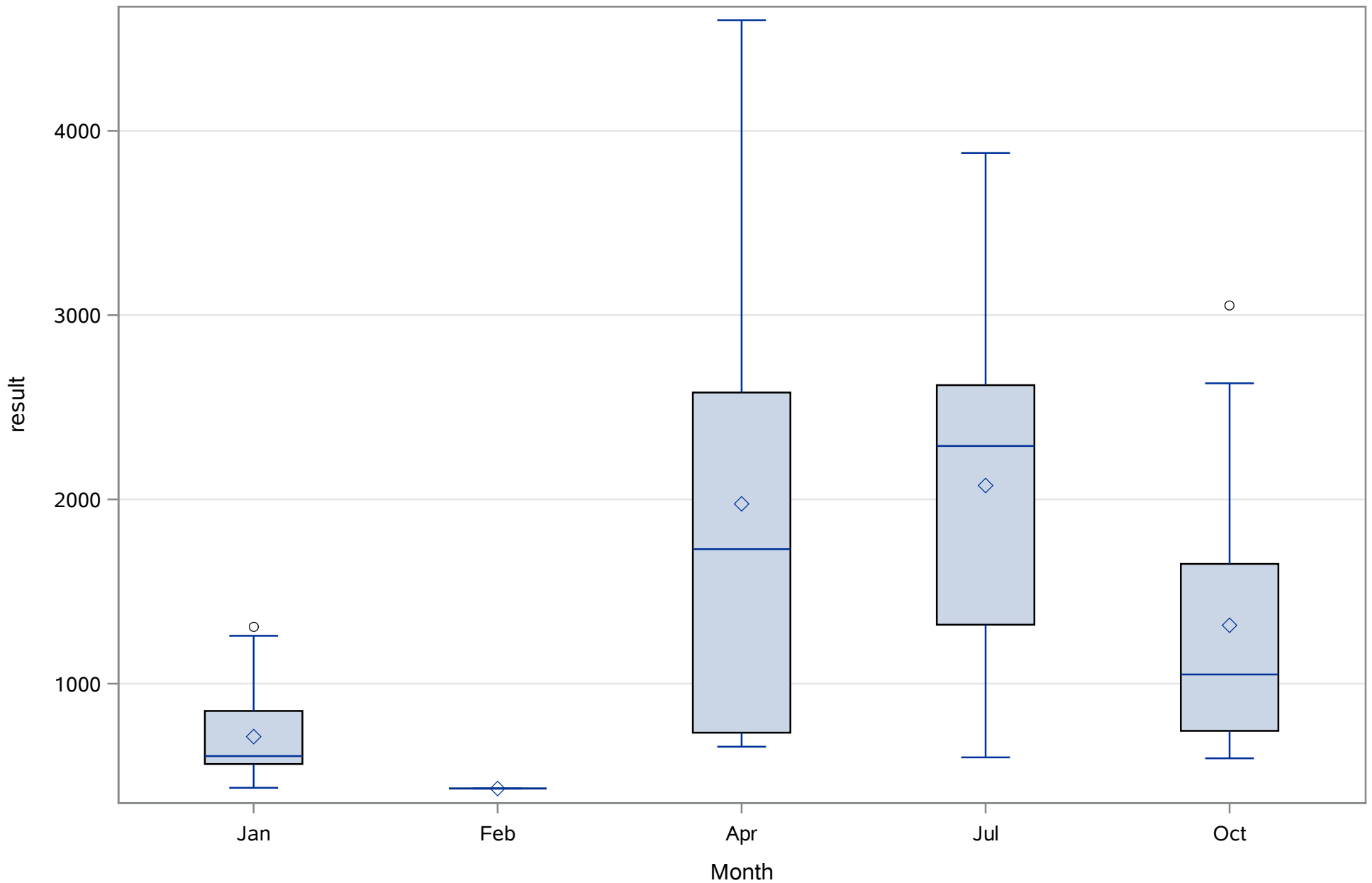
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Calcium (Dissolved) mg/L



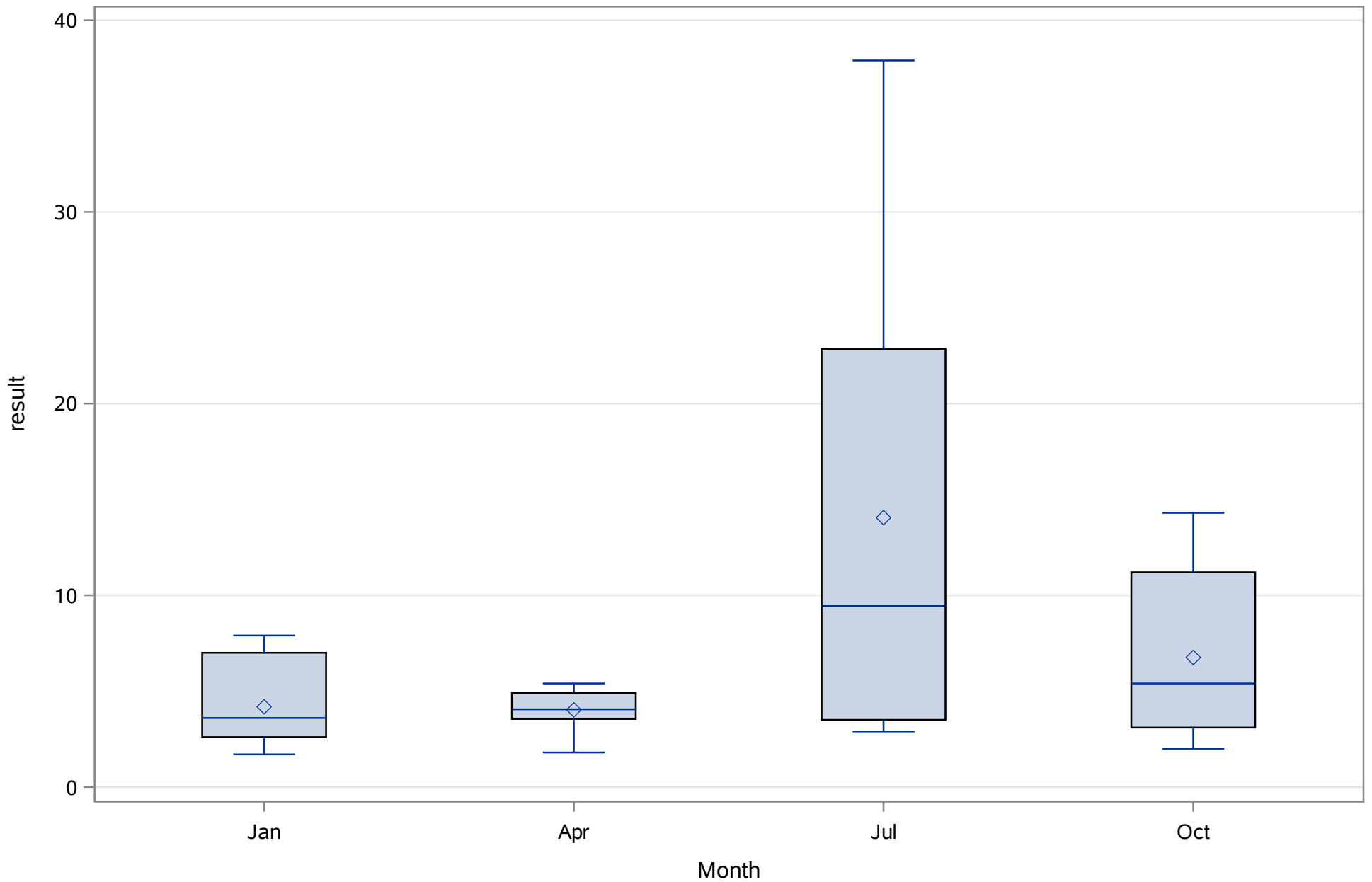
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Carbon- Total Organic (Total) mg/L



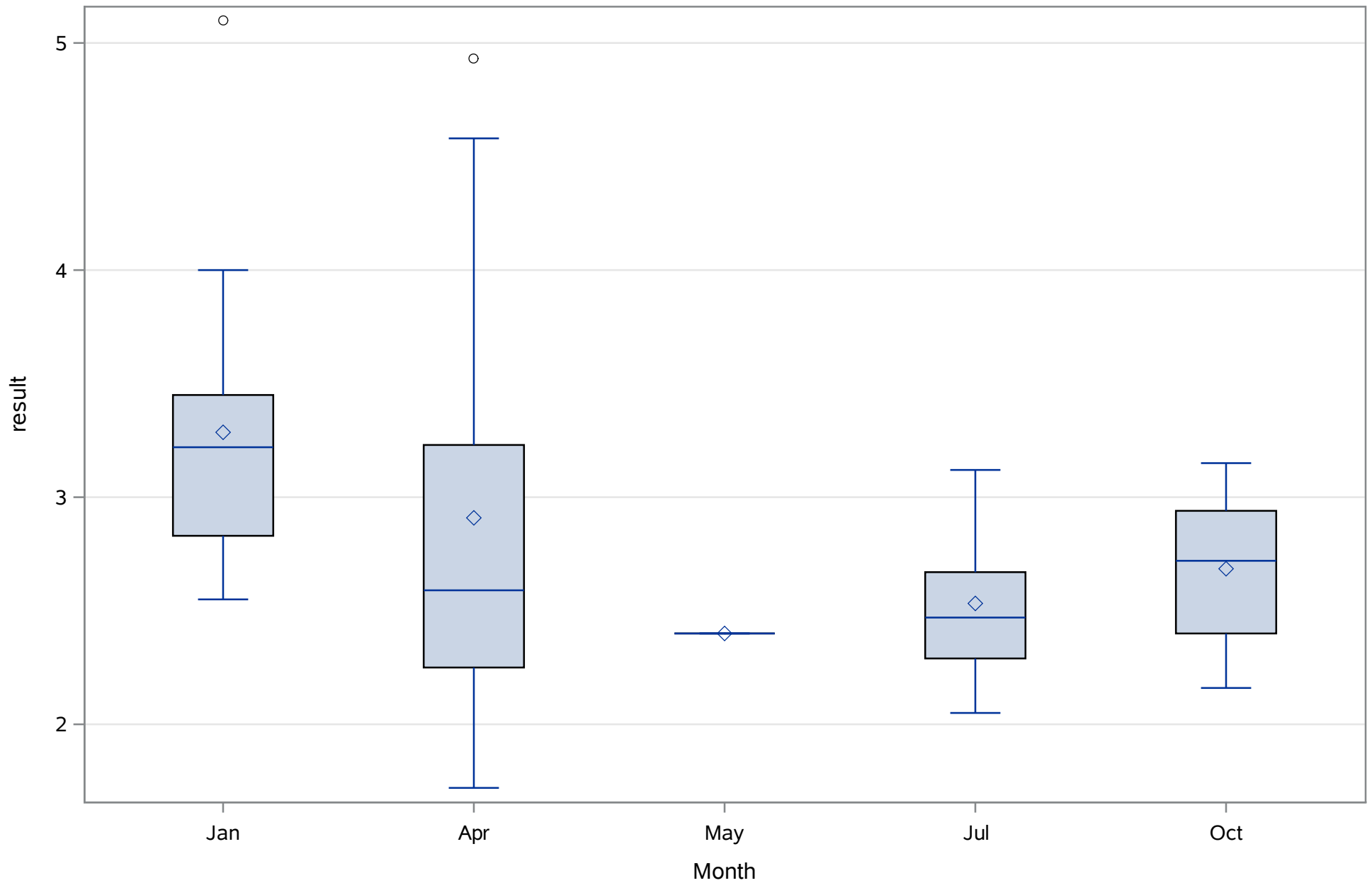
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Chloride (Dissolved) mg/L



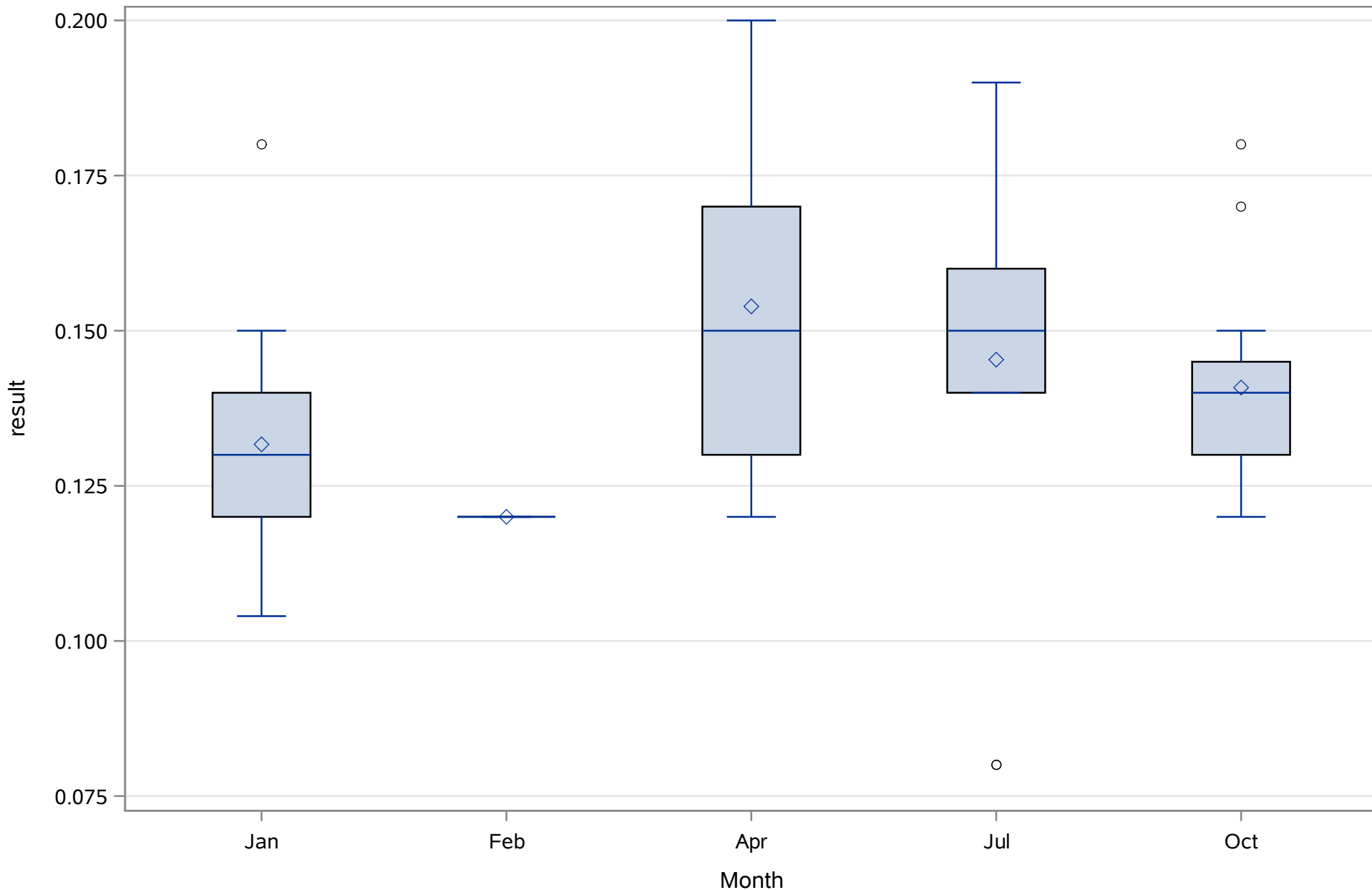
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Color (Dissolved) PCU



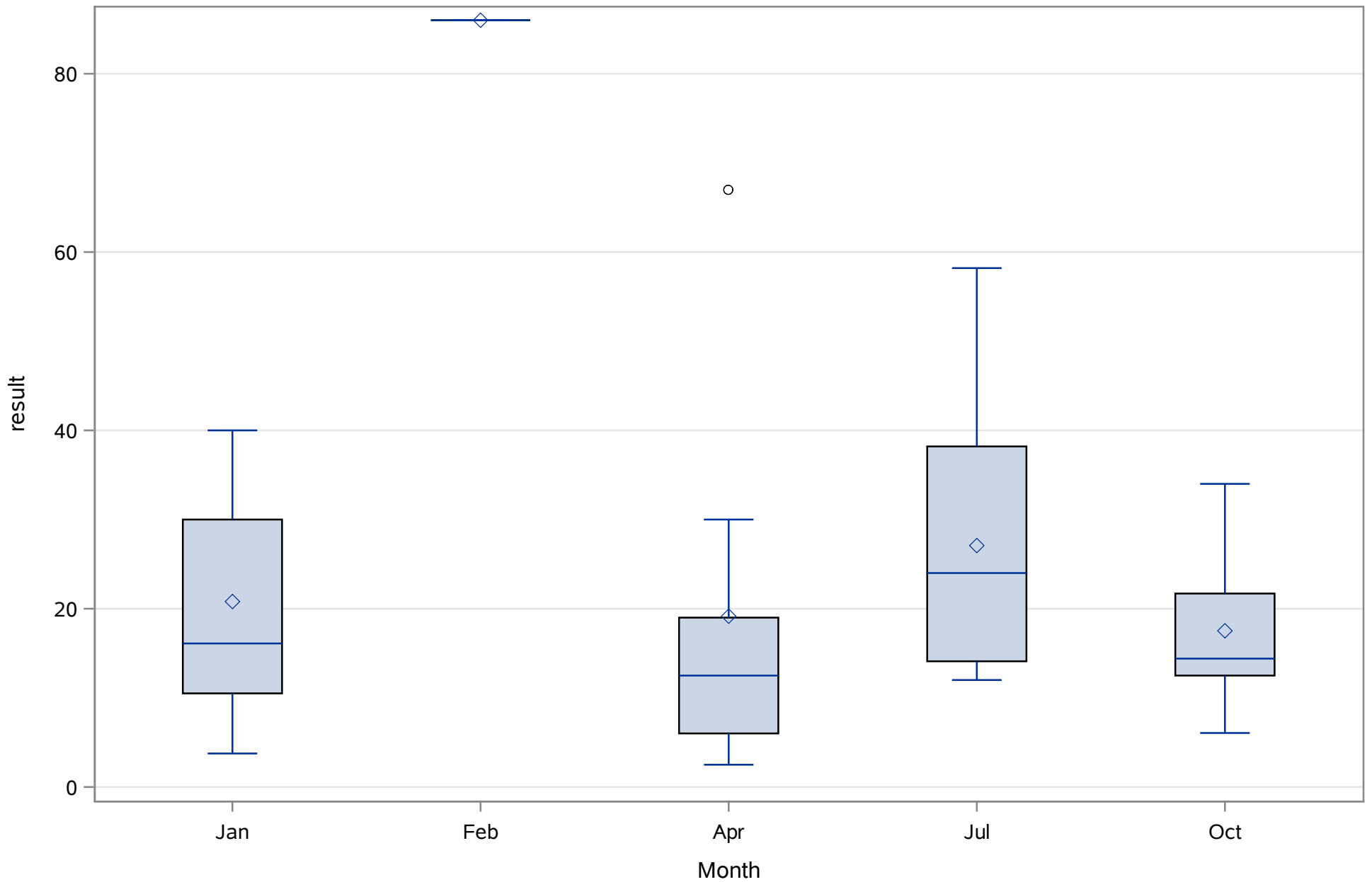
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Dissolved Oxygen (Total) mg/L



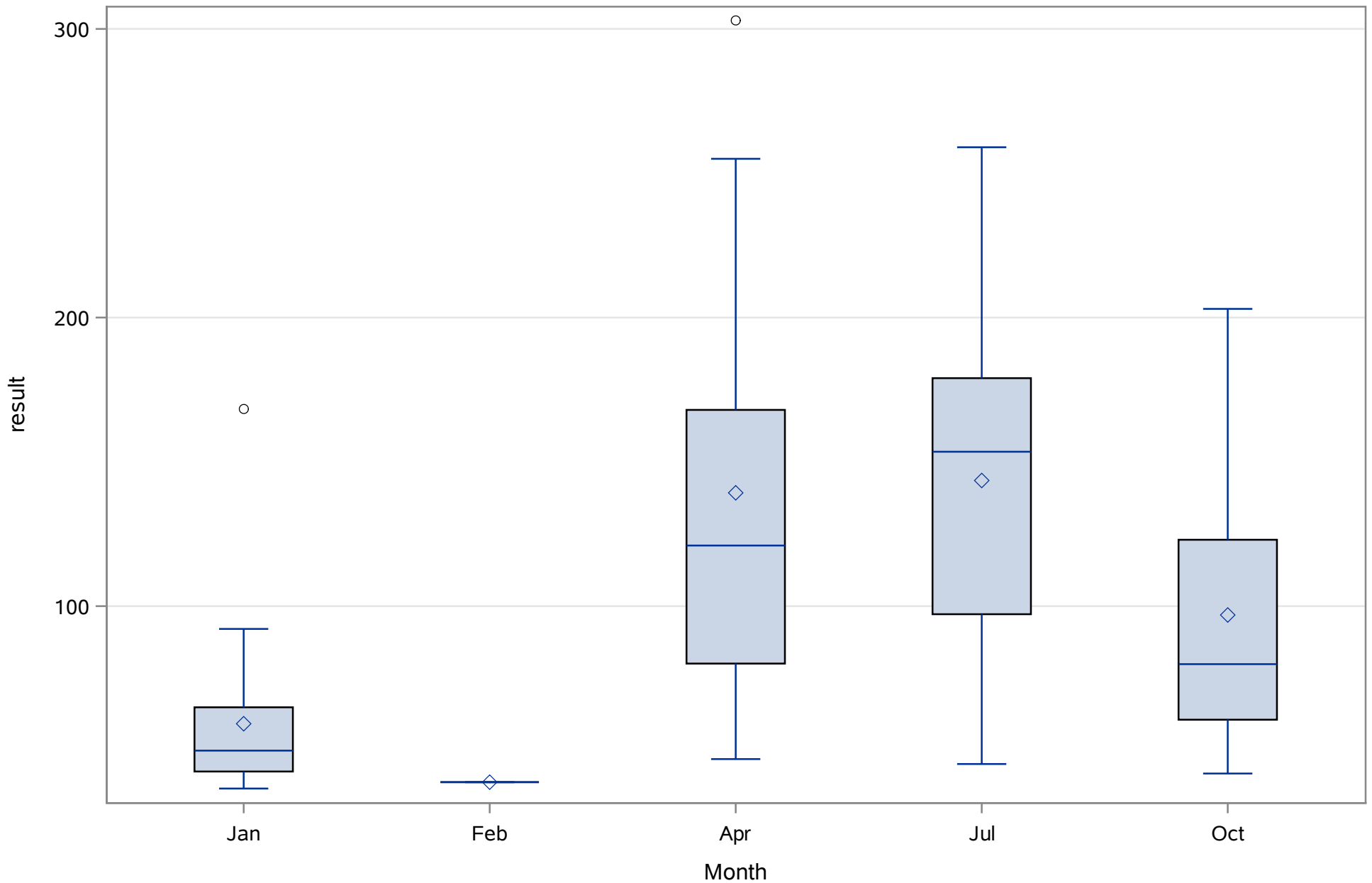
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Fluoride (Dissolved) mg/L



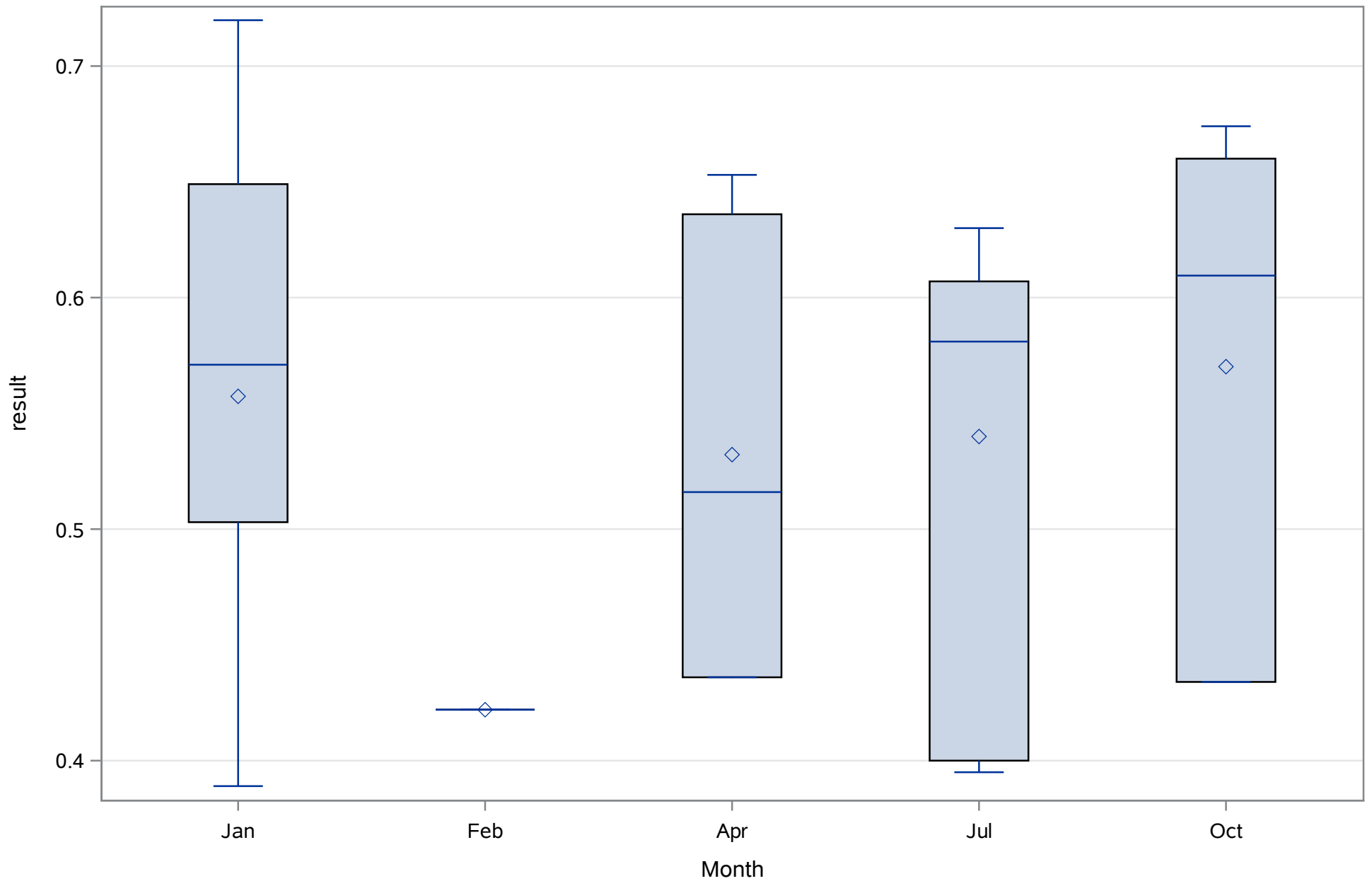
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Iron (Dissolved) ug/L



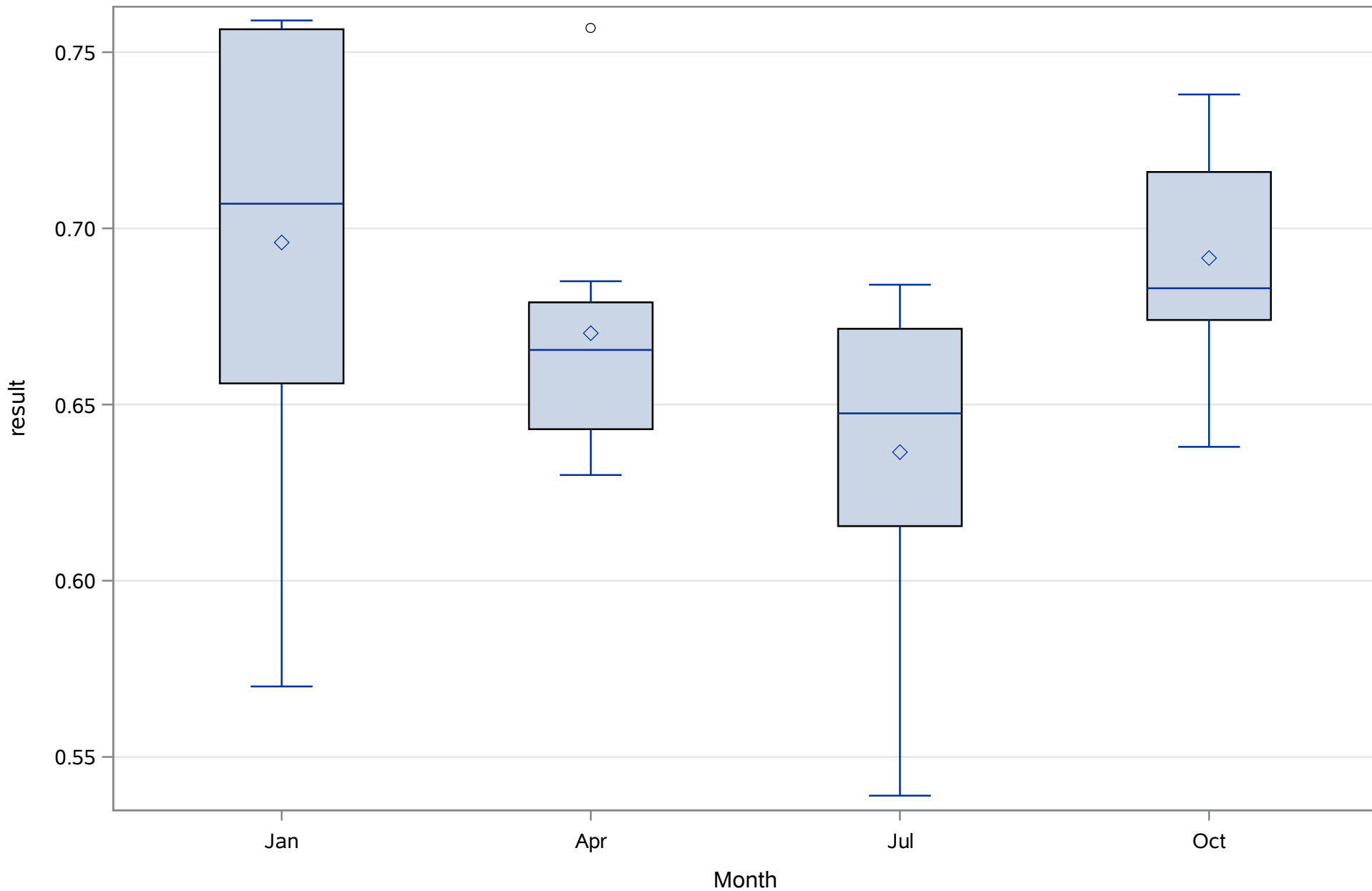
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Magnesium (Dissolved) mg/L



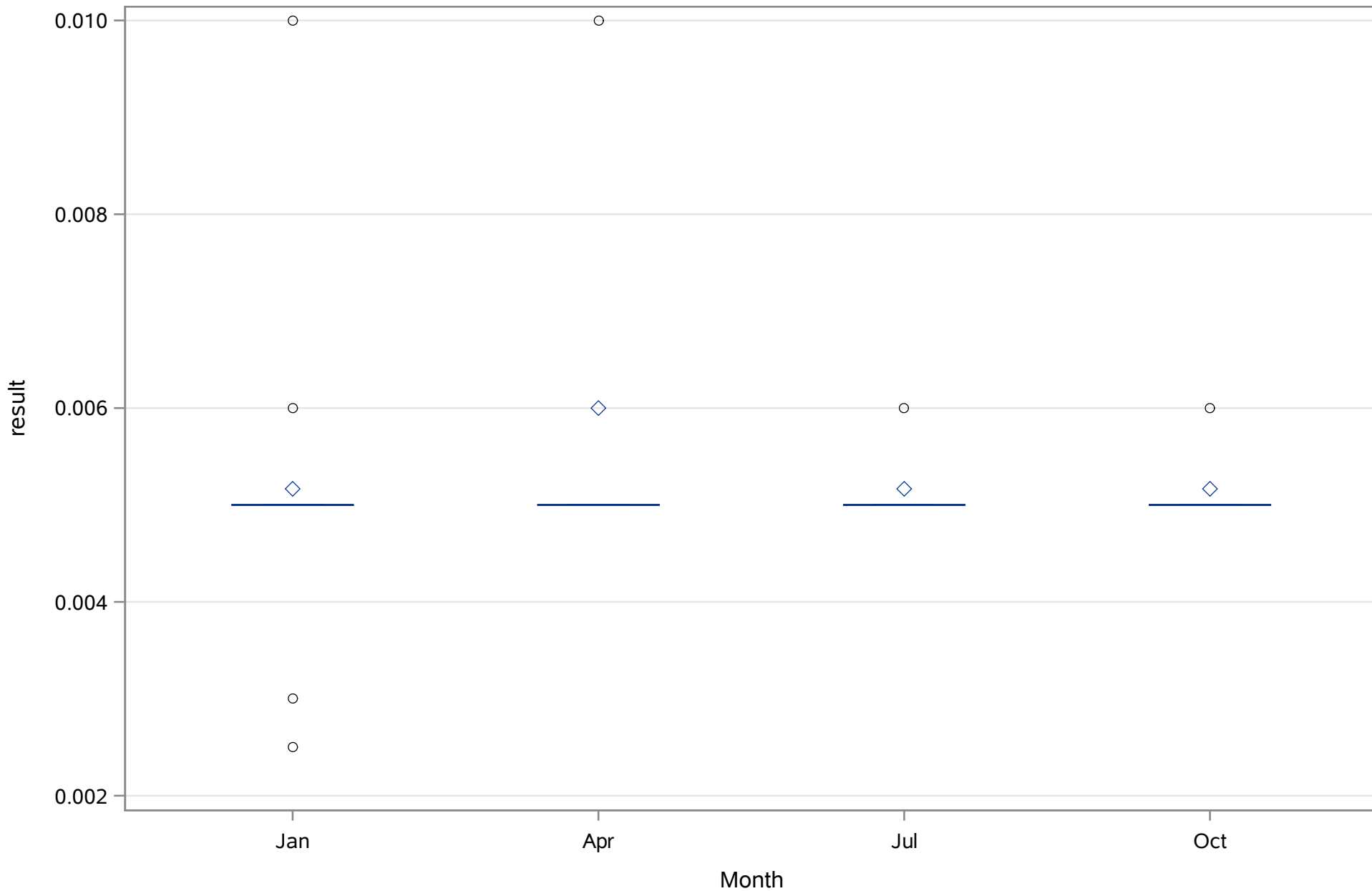
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Dissolved) mg/L



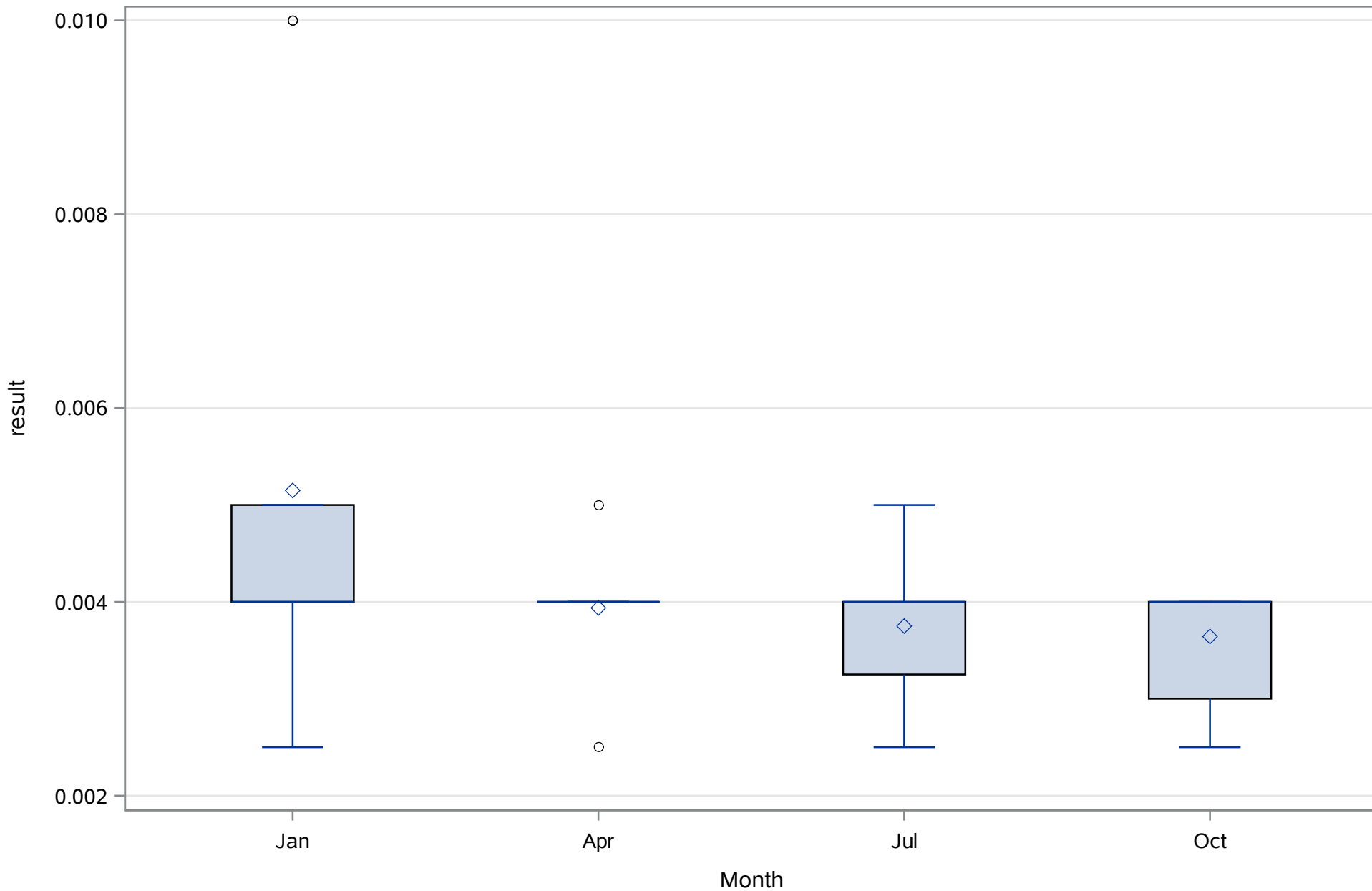
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrate-Nitrite (N) (Total) mg/L



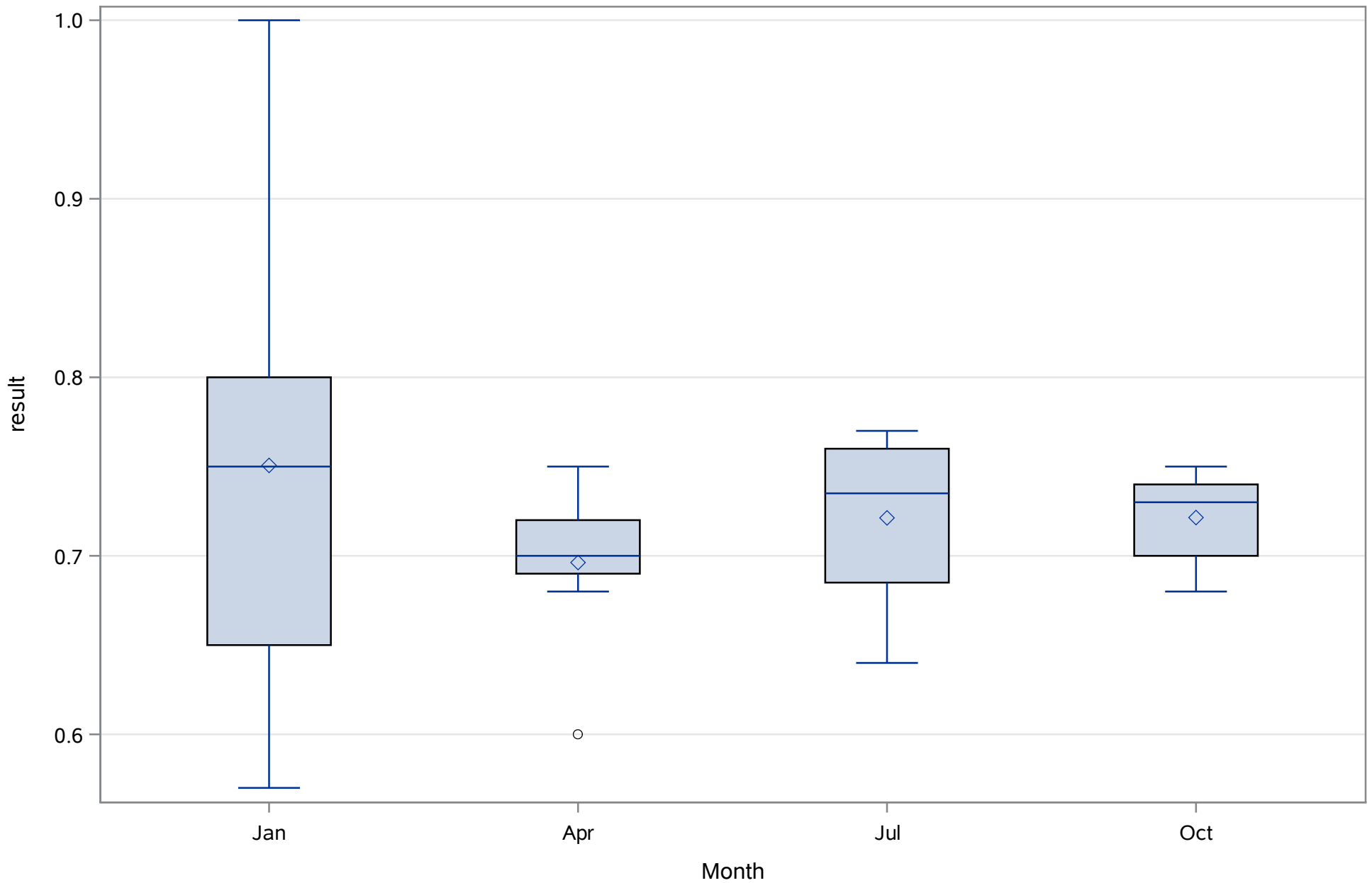
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Dissolved) mg/L



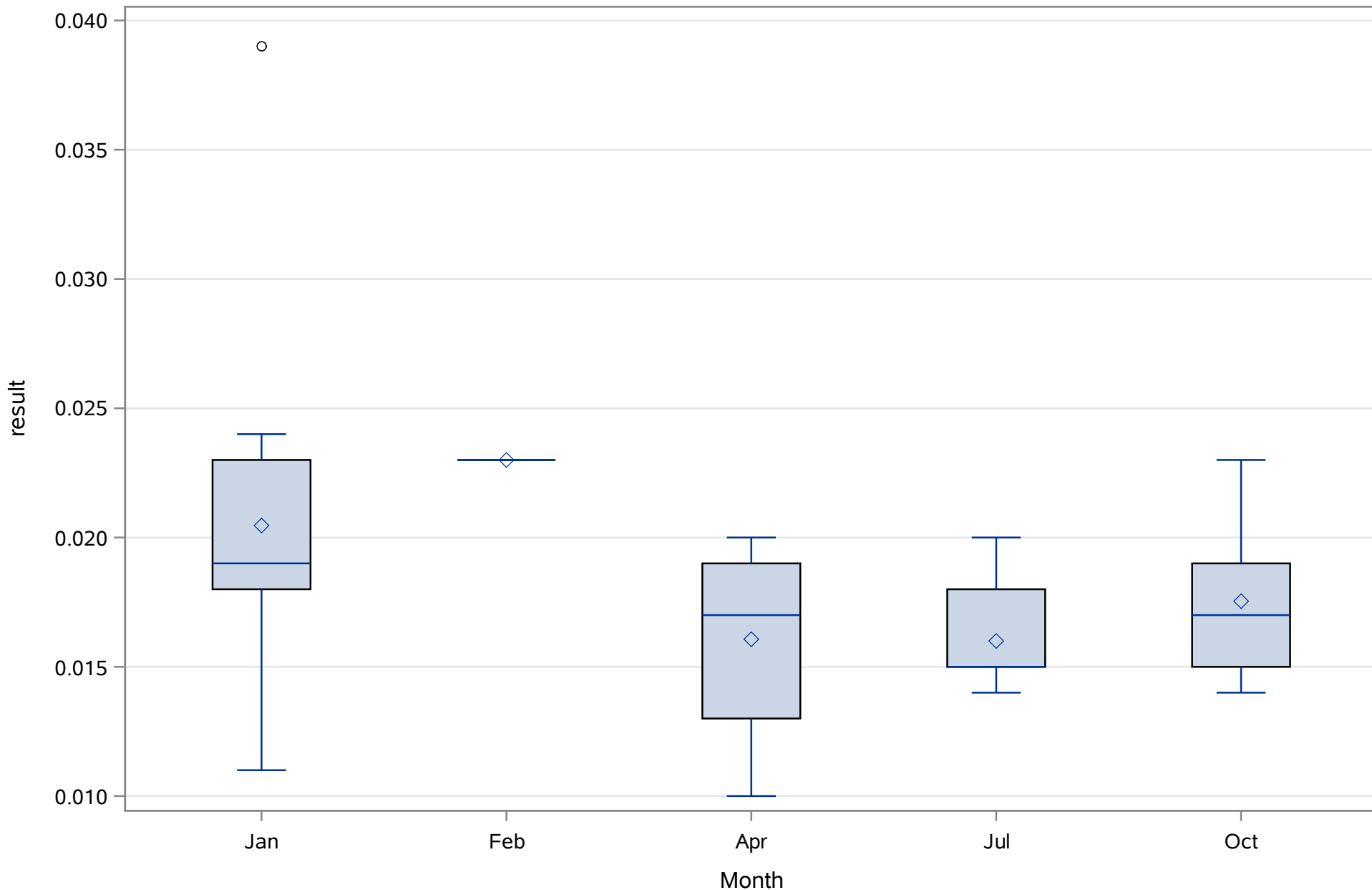
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrite (N) (Total) mg/L



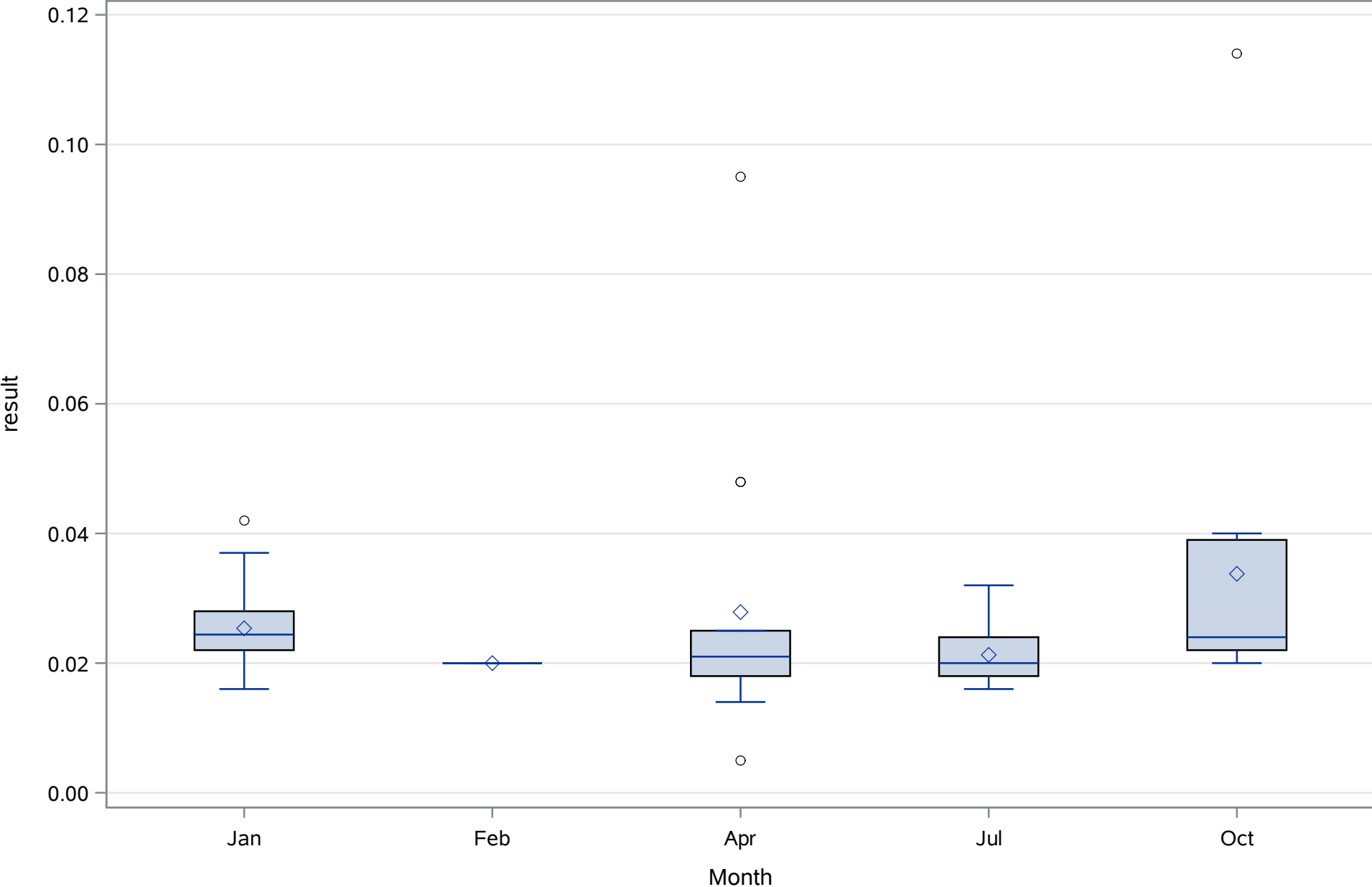
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Nitrogen- Total (Total) mg/L



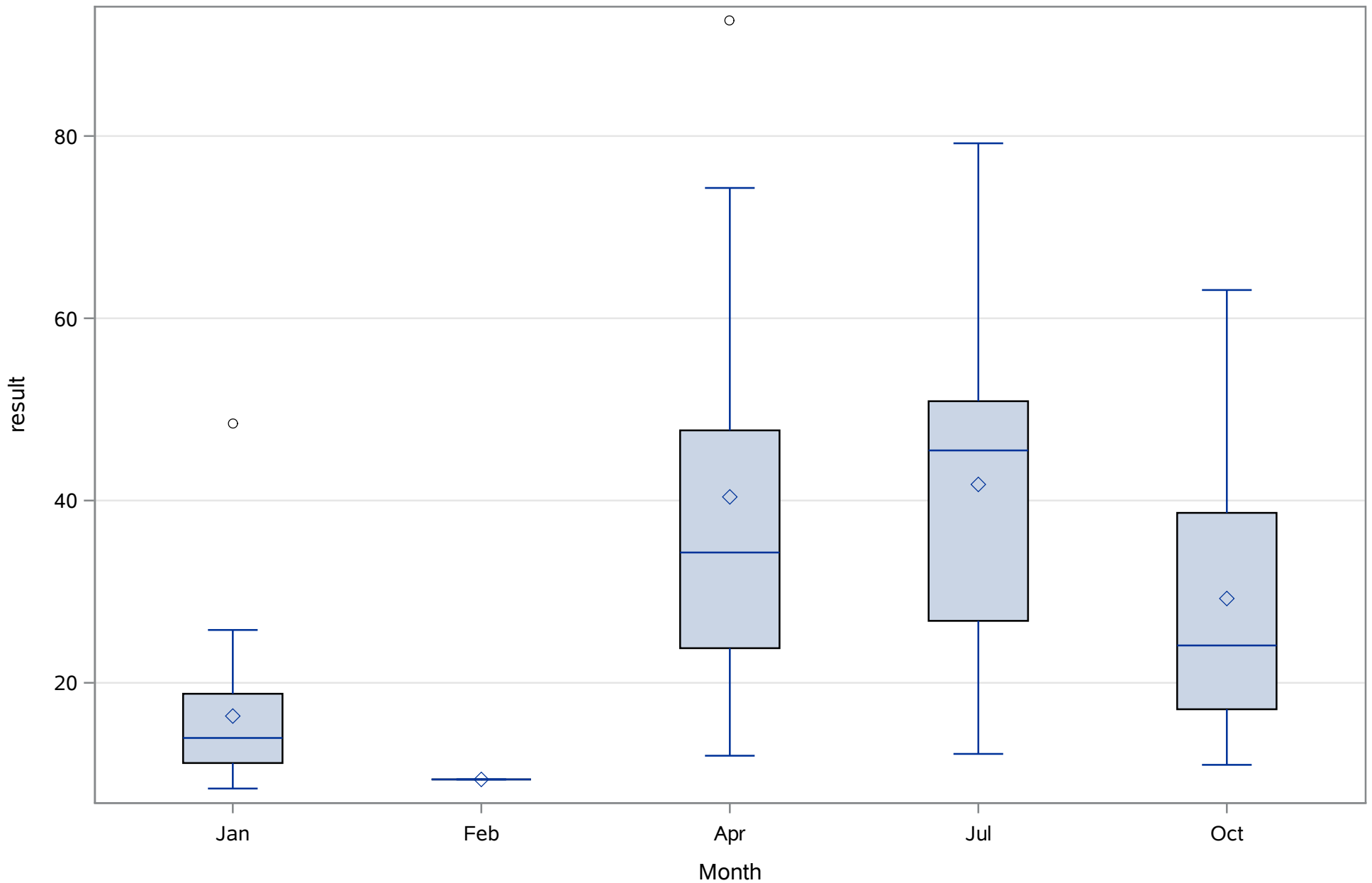
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Orthophosphate (P) (Dissolved) mg/L



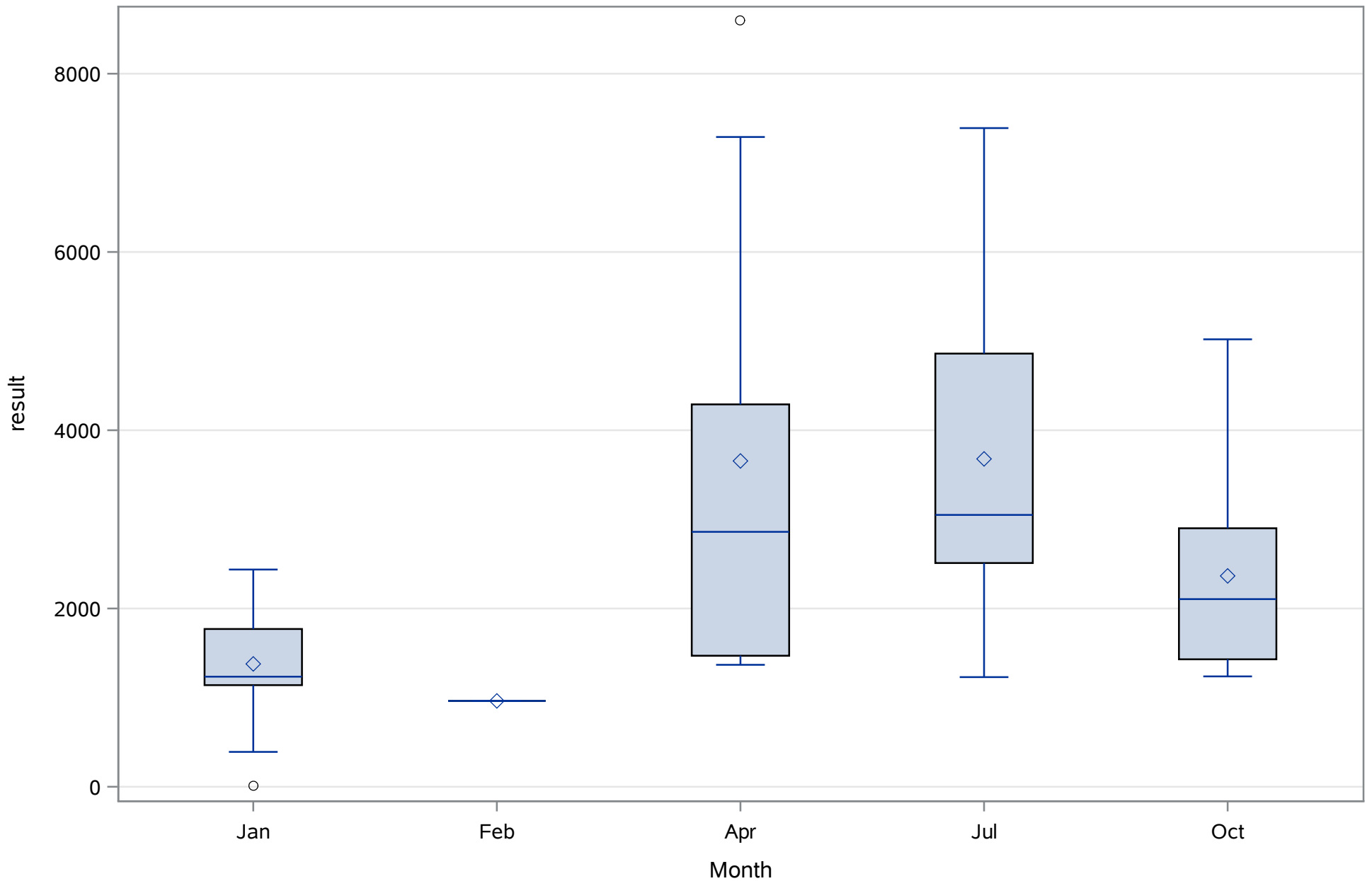
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Phosphorus- Total (Total) mg/L



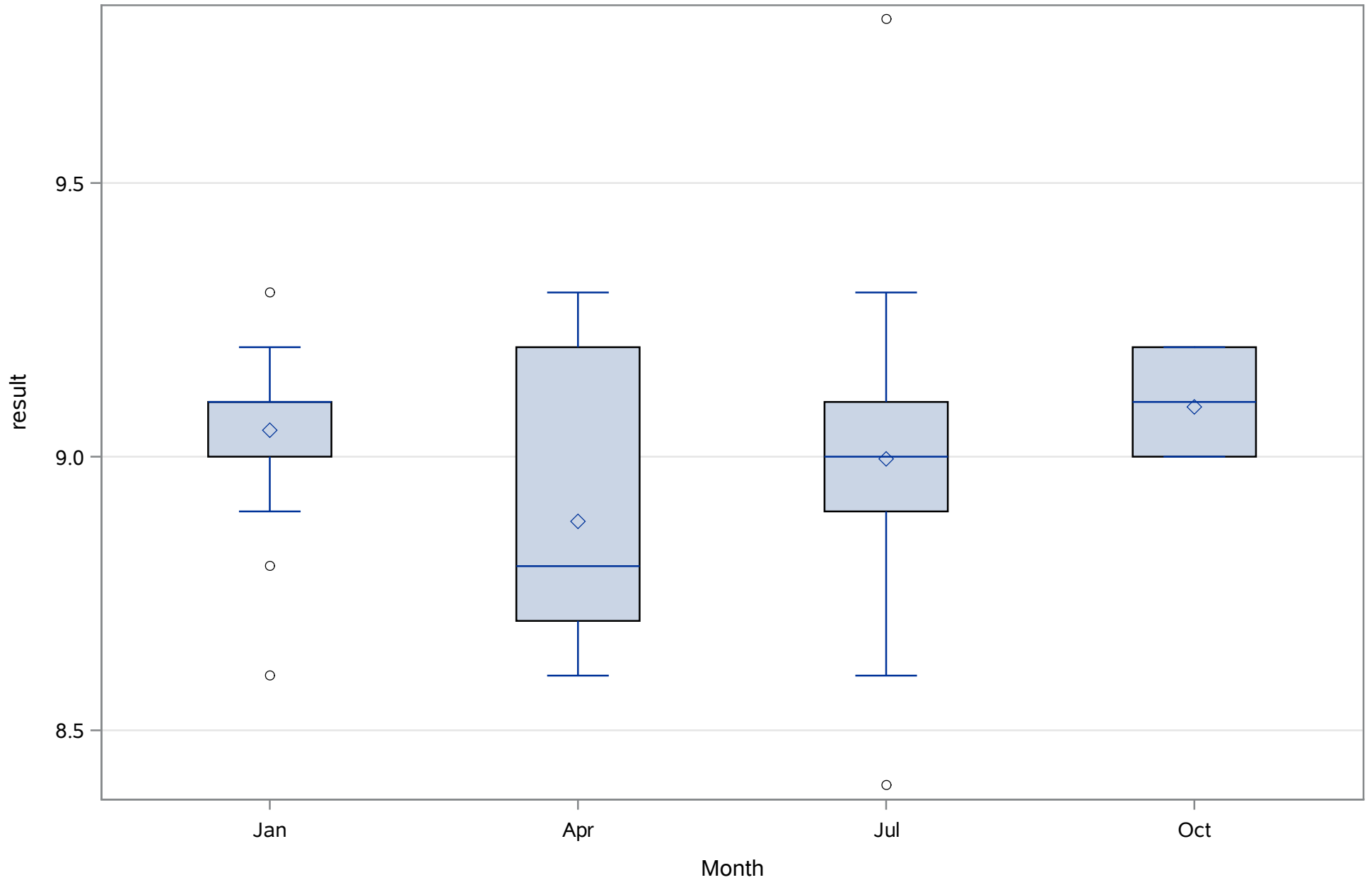
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Potassium (Dissolved) mg/L



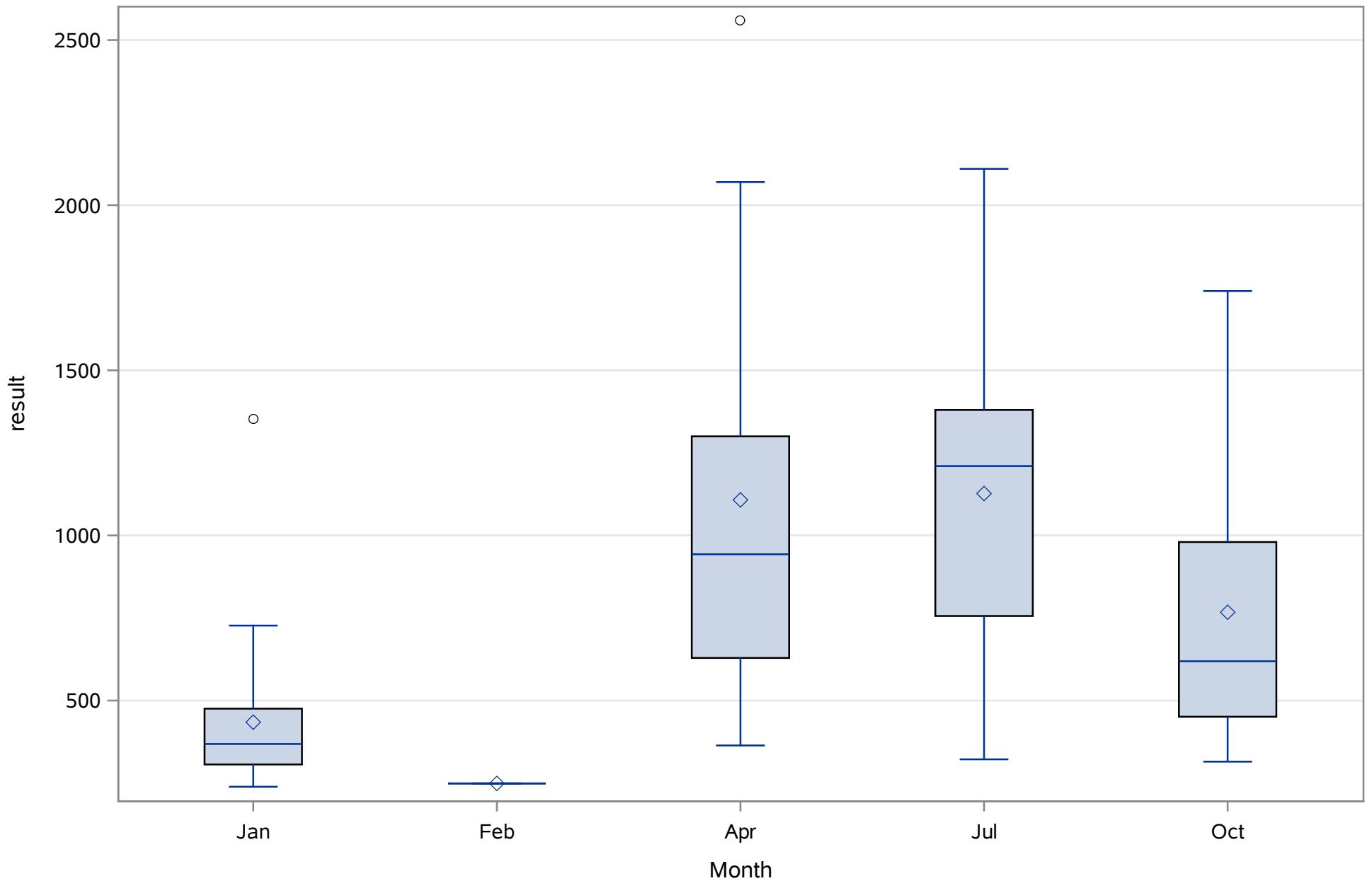
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Residues- Filterable (TDS) (Dissolved) mg/L



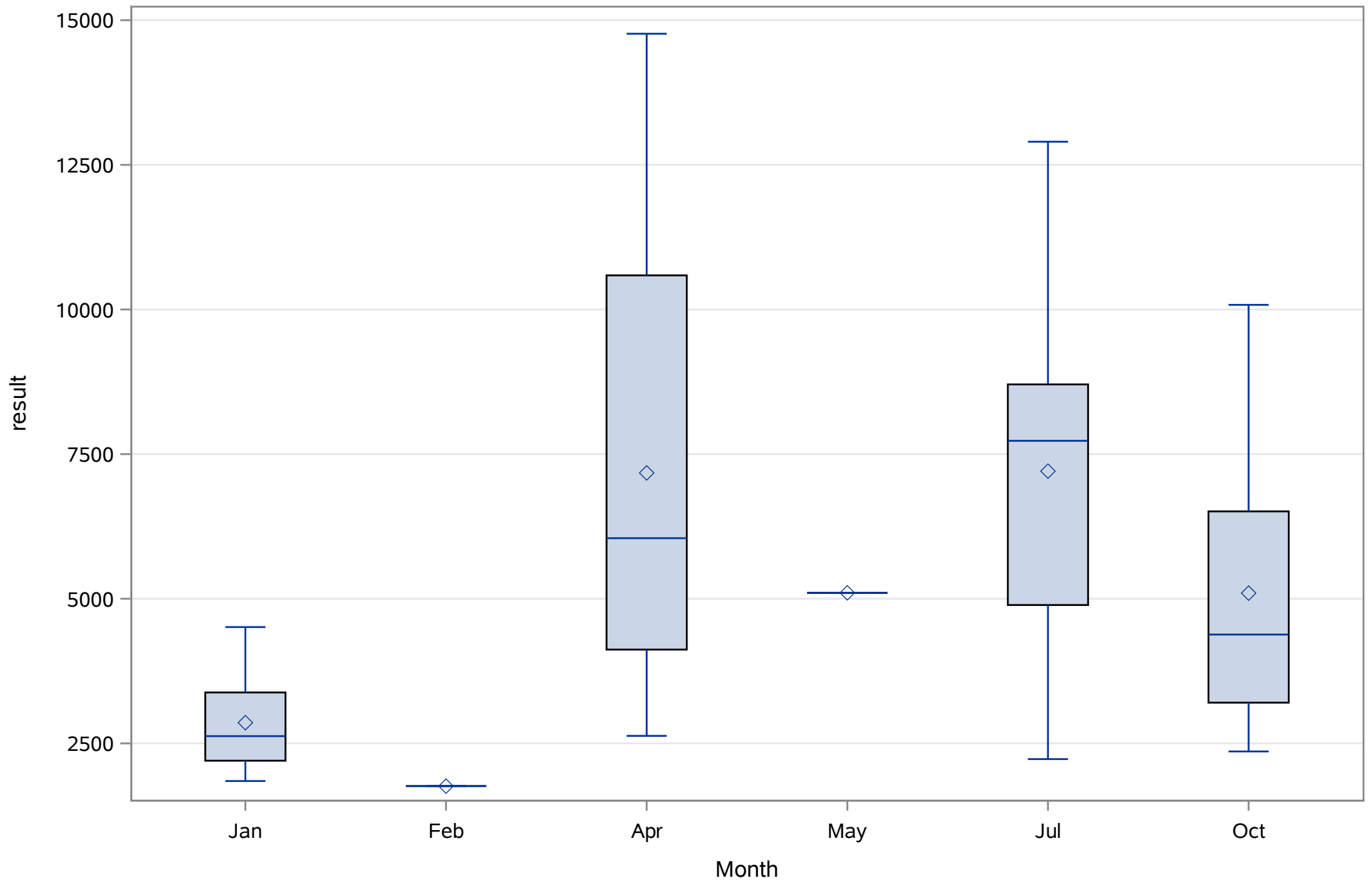
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Silica- Dissolved (Dissolved) mg/L



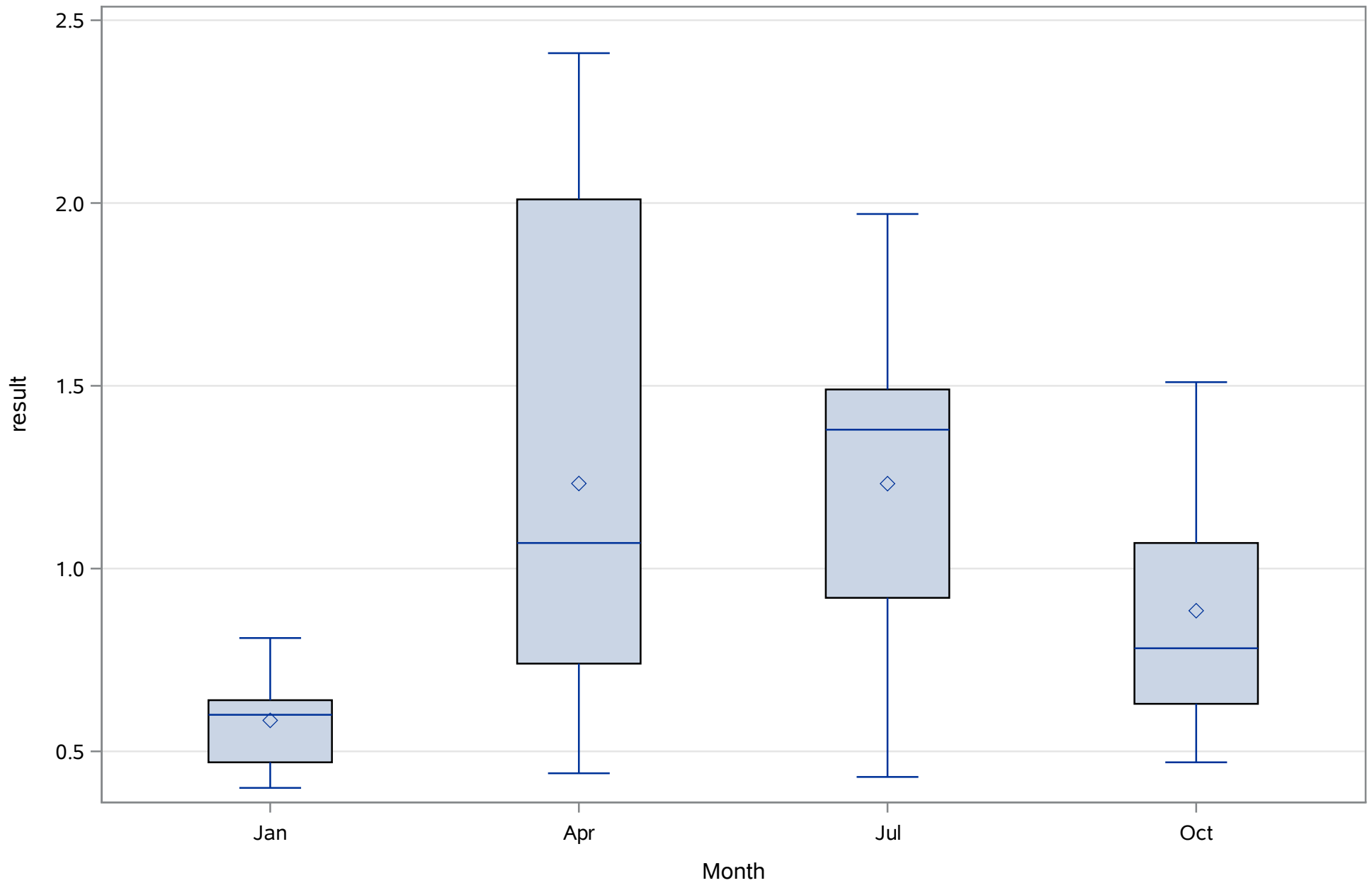
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sodium (Dissolved) mg/L



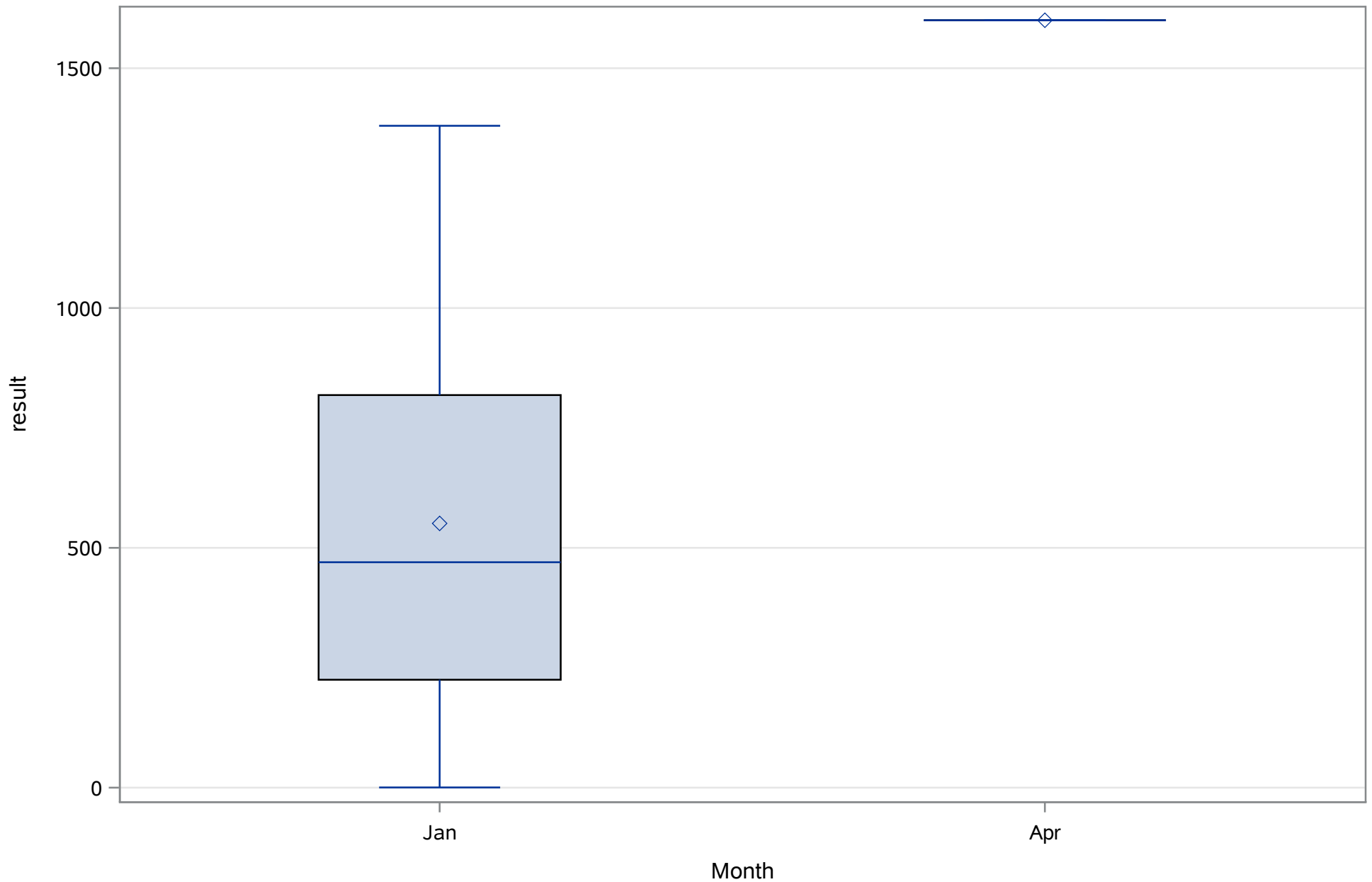
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Specific Conductance (Total) uS/cm



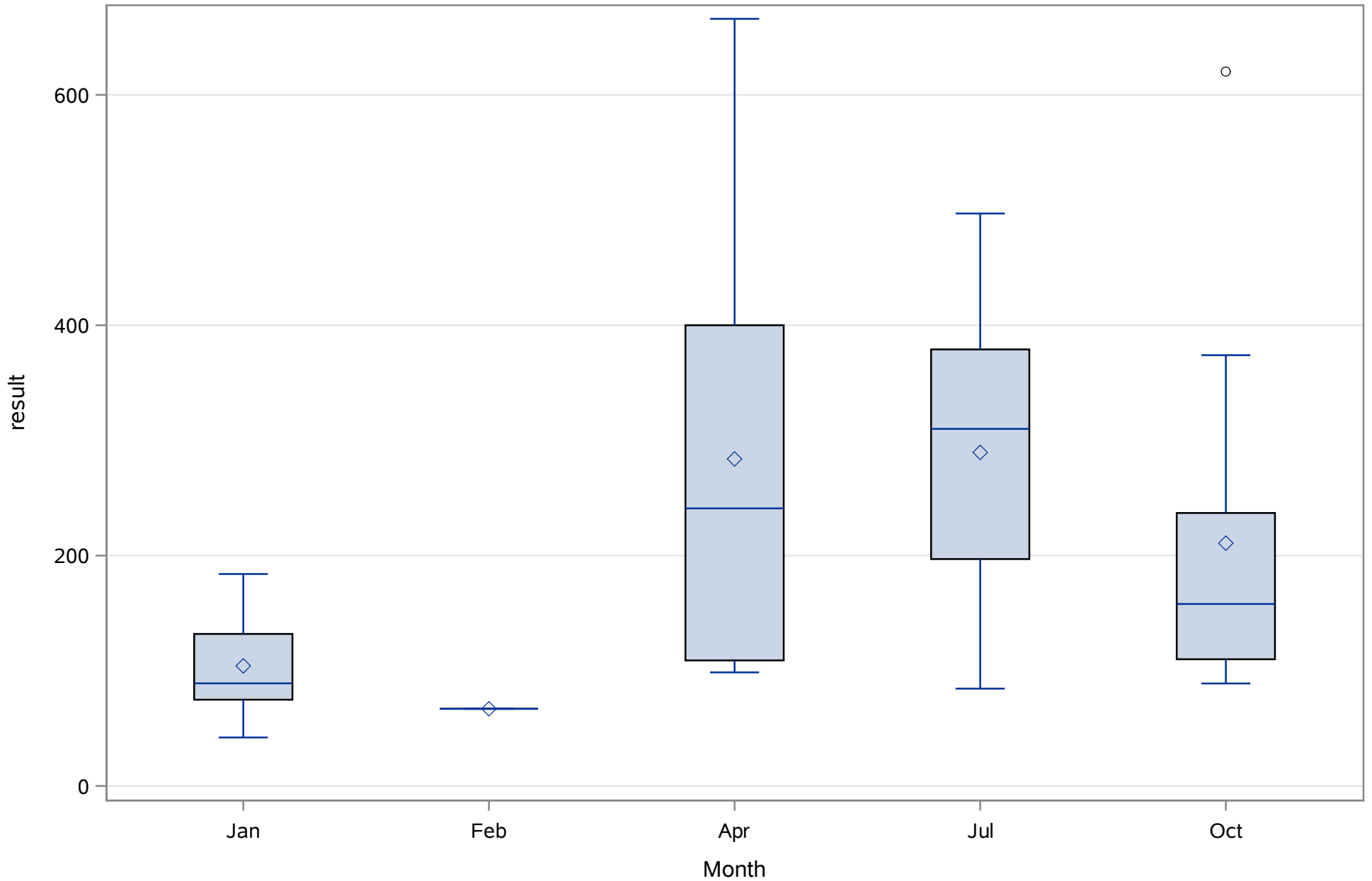
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) mg/L



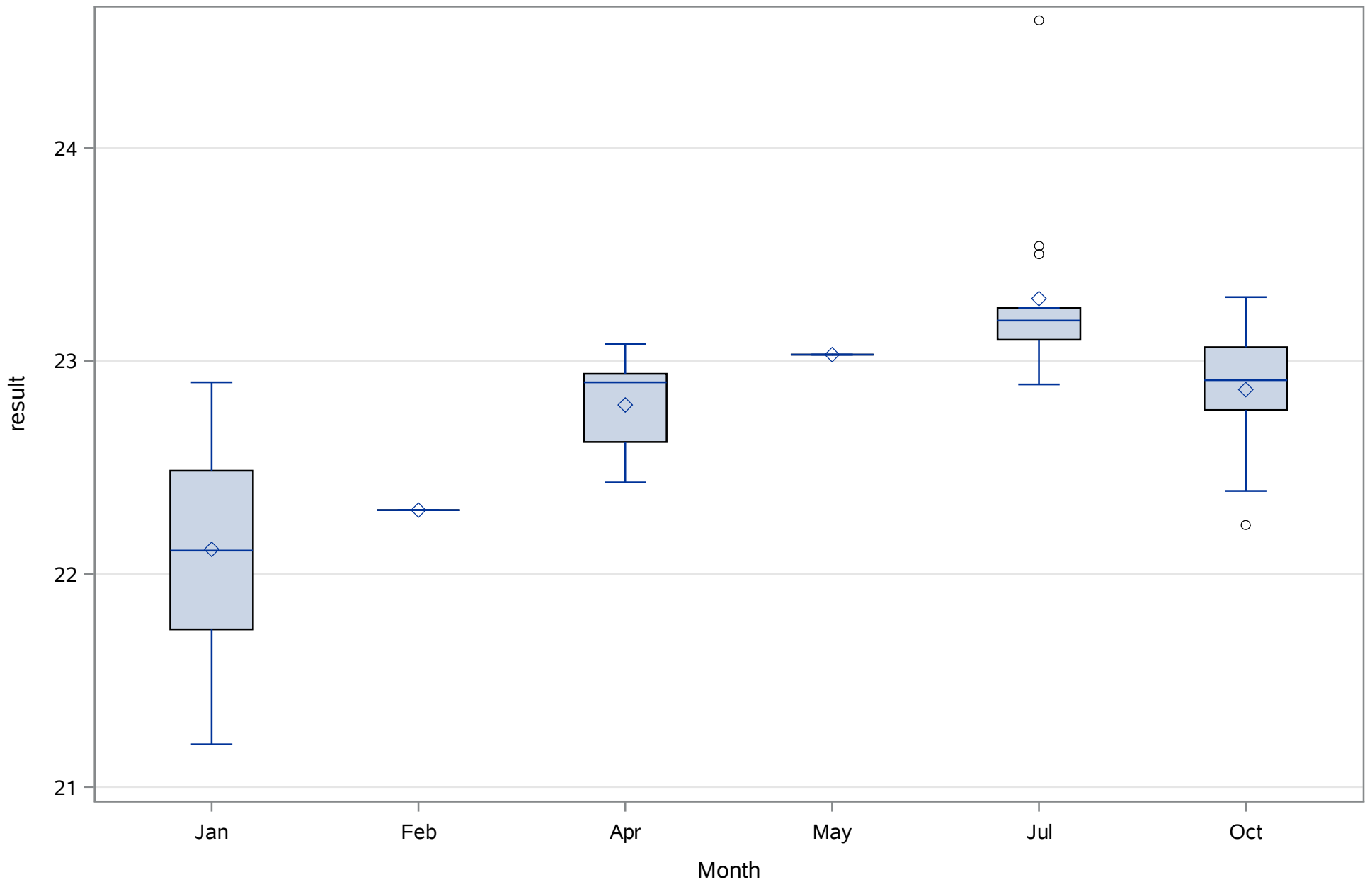
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Strontium (Dissolved) ug/L



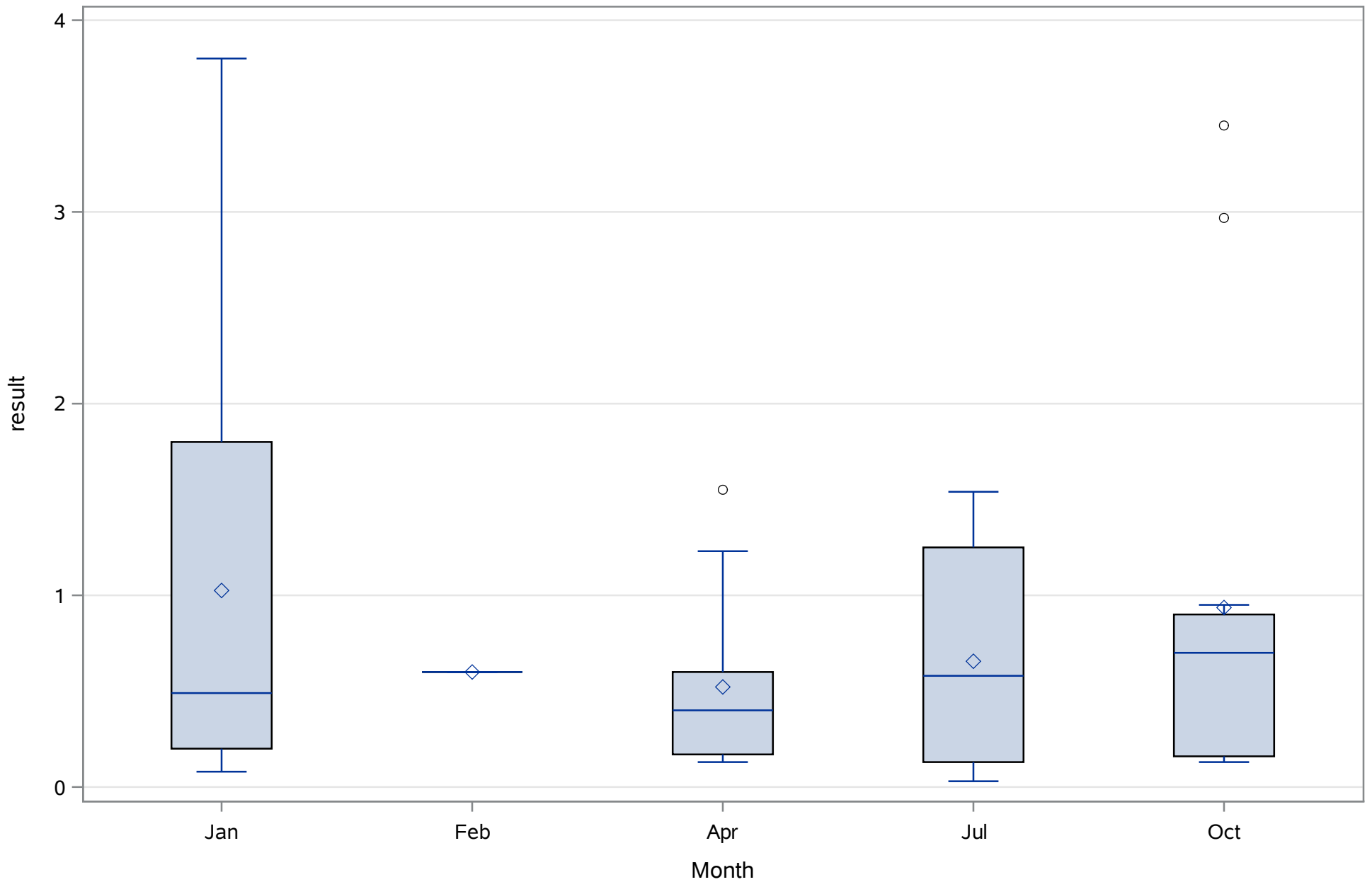
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Sulfate (Dissolved) mg/L



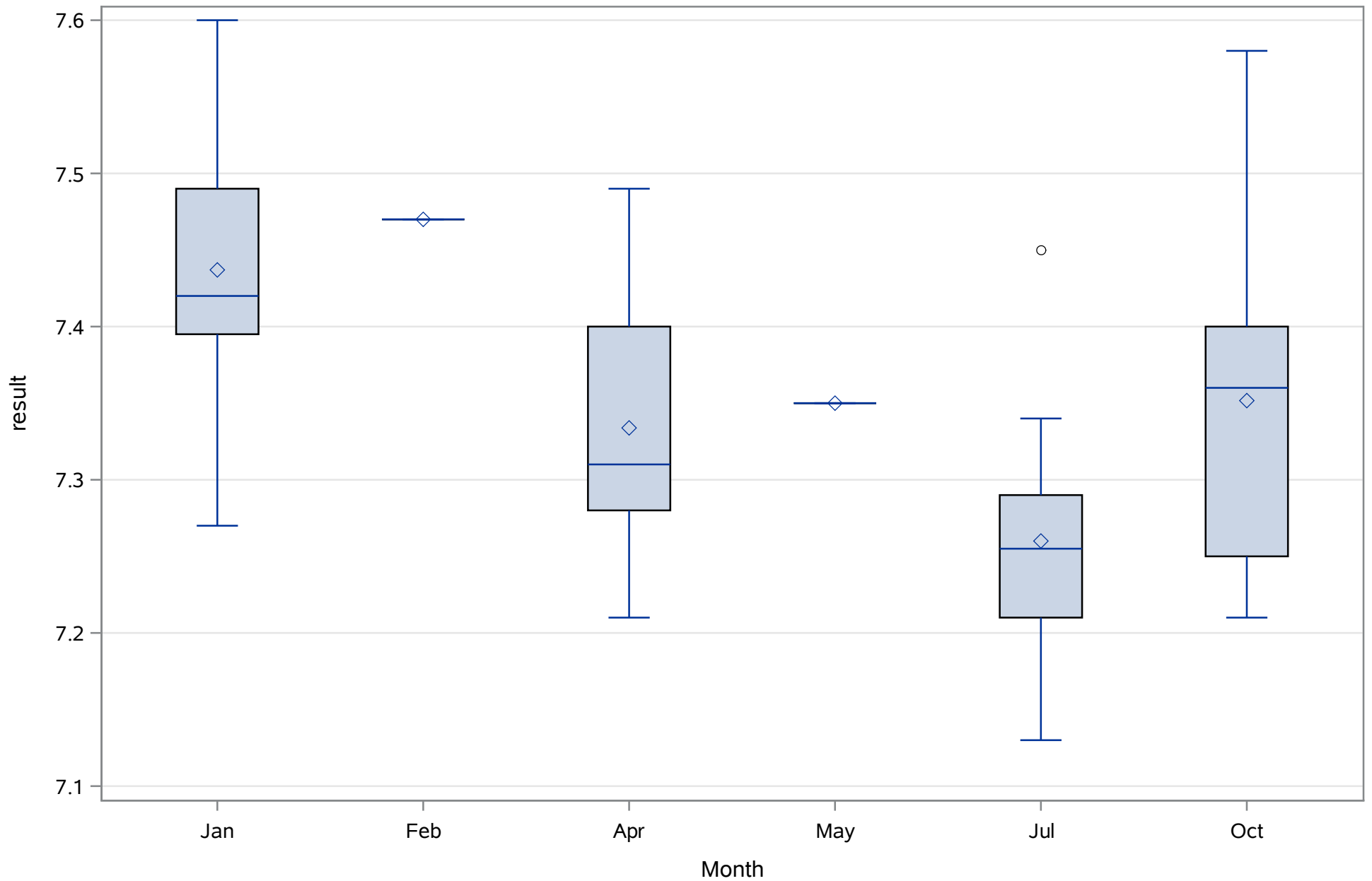
Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
Turbidity (Total) NTU



Chassahowitzka River - Fixed Station
Source: Springs Data
Ruth Spring
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Depth (Total)	Meters	APR2014	JUN2017	19	0.0%	0.0%	5.3%
Depth, bottom (Total)	Meters	APR2014	JUN2017	19	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	MAY2014	JUN2017	18	0.0%	0.0%	5.6%
Salinity (Total)	ppth	MAY2014	JUN2017	18	0.0%	0.0%	5.6%
Secchi-vertical (Total)	Meters	JUN2015	JUN2017	14	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	APR2014	JUN2017	5636	1.9%	2.0%	0.7%
Stage (Total)	Ft.	JUN2015	JUN2017	14	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	APR2014	JUN2017	7420	1.5%	1.8%	0.5%
pH (Total)	SU	MAY2014	JUN2017	18	0.0%	0.0%	5.6%

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	5636	Sum Weights	5636
Mean	5551.82168	Sum Observations	31290067
Std Deviation	556.440256	Variance	309625.758
Skewness	-1.2109557	Kurtosis	4.10337261
Uncorrected SS	1.75462E11	Corrected SS	1744741148
Coeff Variation	10.0226608	Std Error Mean	7.4119597

Basic Statistical Measures			
Location		Variability	
Mean	5551.822	Std Deviation	556.44026
Median	5691.500	Variance	309626
Mode	5801.000	Range	8107
		Interquartile Range	739.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	749.0356	Pr > t 	<.0001
Sign	M	2818	Pr >= M 	<.0001
Signed Rank	S	7942533	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9530.0
99%	6381.0
95%	6197.0
90%	6124.0
75% Q3	5953.0
50% Median	5691.5
25% Q1	5214.0
10%	4753.0
5%	4535.0
1%	4196.0
0% Min	1423.0

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Specific Conductance (Total) uS/cm

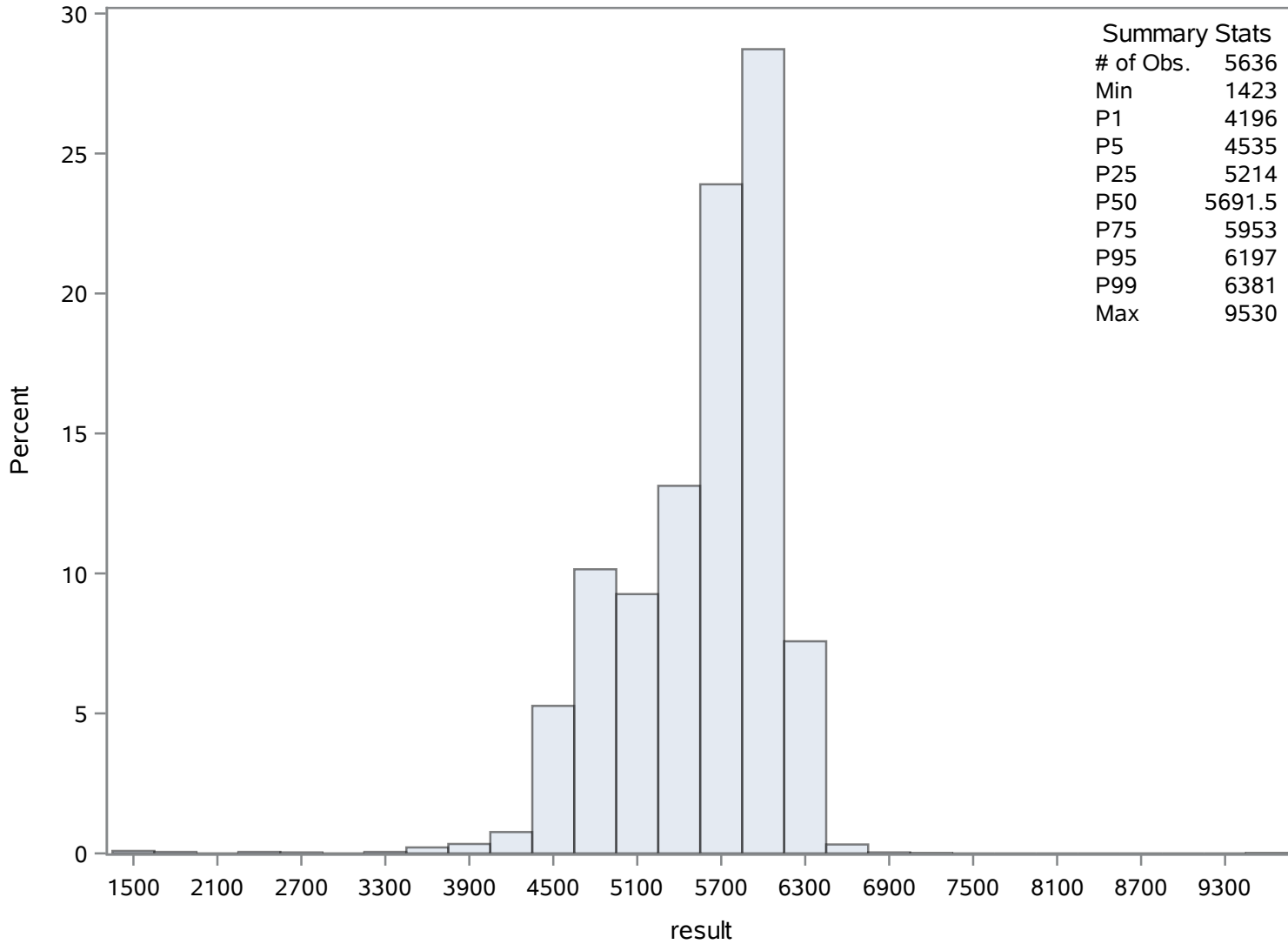
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1423	4951	6731	5631
1434	4950	6846	5623
1519	4952	6870	5630
1613	4949	7241	5629
1634	2647	9530	5636

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	7420	Sum Weights	7420
Mean	22.7706092	Sum Observations	168957.92
Std Deviation	0.6270799	Variance	0.3932292
Skewness	-0.7269512	Kurtosis	0.45153841
Uncorrected SS	3850192.13	Corrected SS	2917.36745
Coeff Variation	2.75390042	Std Error Mean	0.00727982

Basic Statistical Measures			
Location		Variability	
Mean	22.77061	Std Deviation	0.62708
Median	22.85000	Variance	0.39323
Mode	23.39000	Range	4.64000
		Interquartile Range	0.91000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3127.906	Pr > t 	<.0001
Sign	M	3710	Pr >= M 	<.0001
Signed Rank	S	13765955	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.06
99%	23.77
95%	23.58
90%	23.48
75% Q3	23.29
50% Median	22.85
25% Q1	22.38
10%	21.88
5%	21.64
1%	21.10
0% Min	19.42

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Temperature (Total) Deg. C

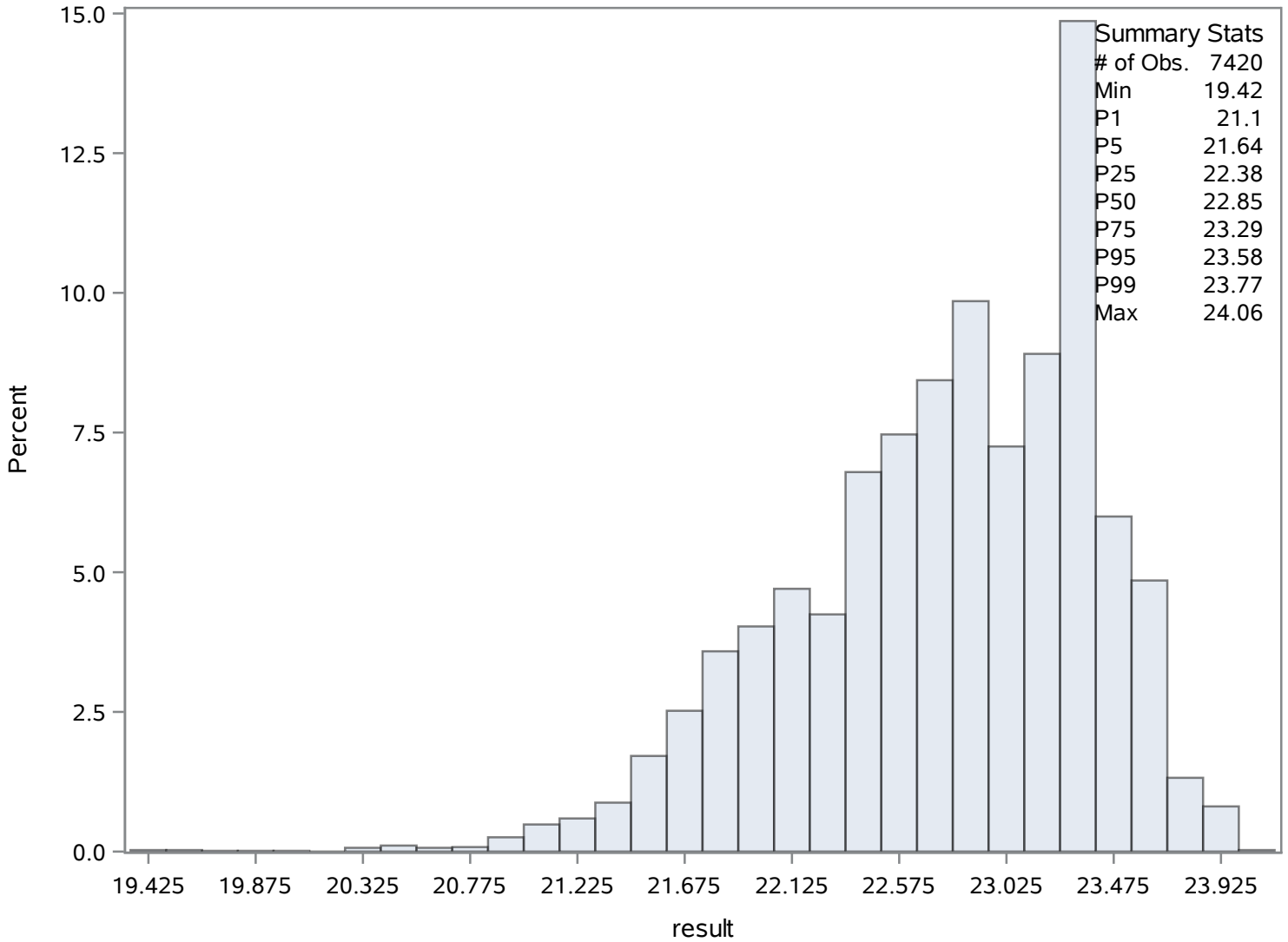
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19.42	12371	23.97	5747
19.44	12372	23.97	5988
19.52	12373	23.97	7282
19.55	12370	24.06	5648
19.72	12374	24.06	5649

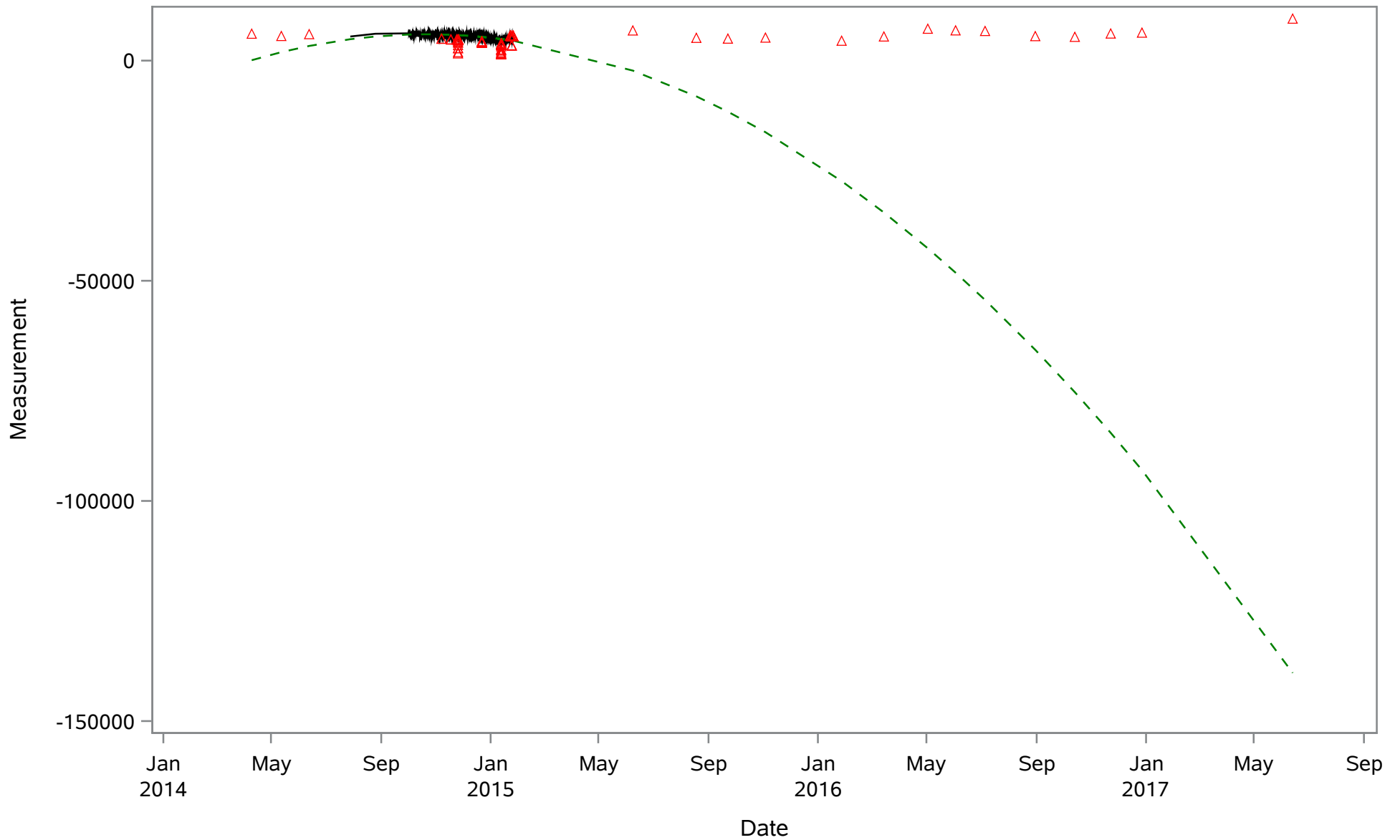
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result

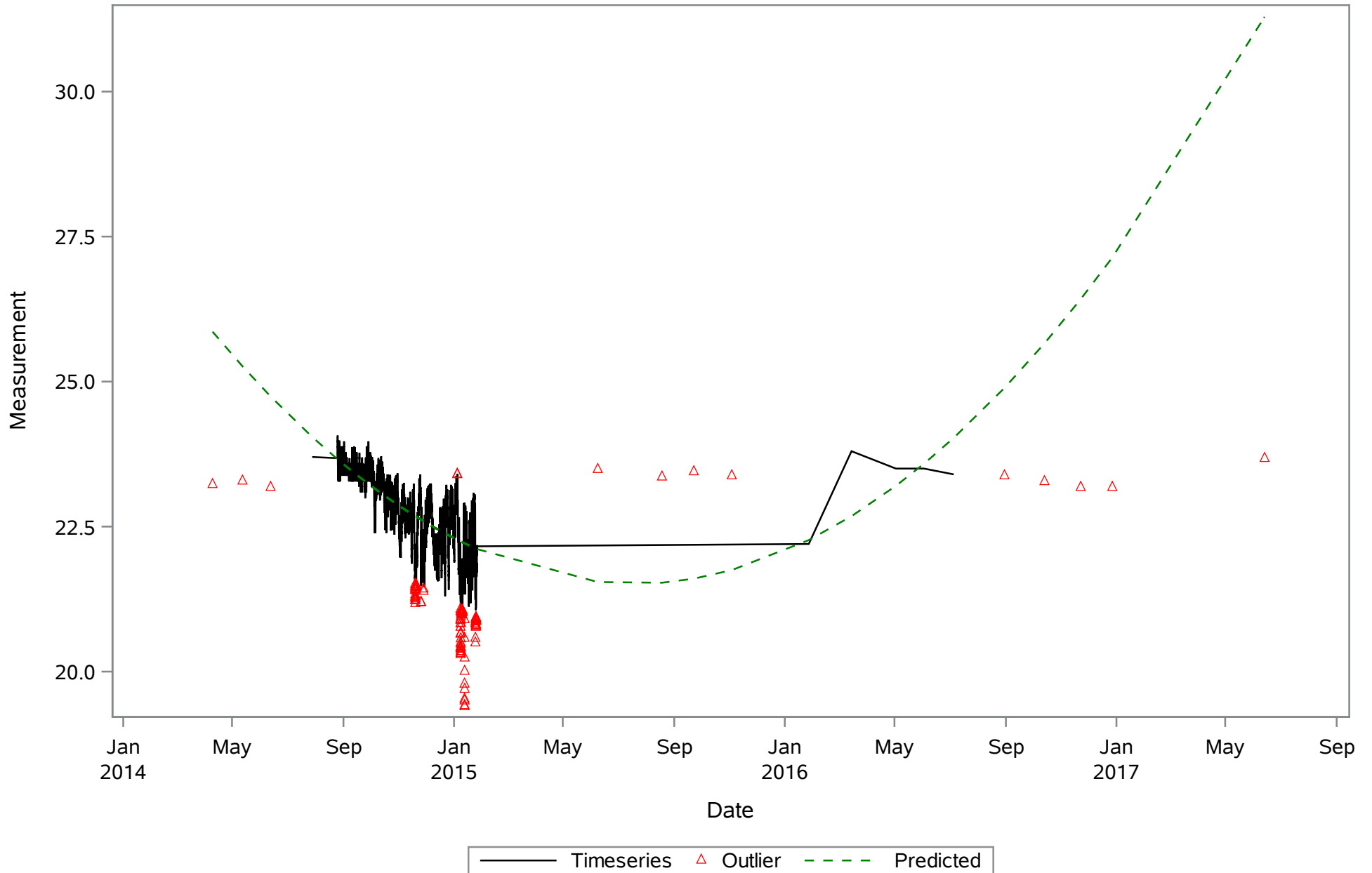


Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Specific Conductance (Total) uS/cm

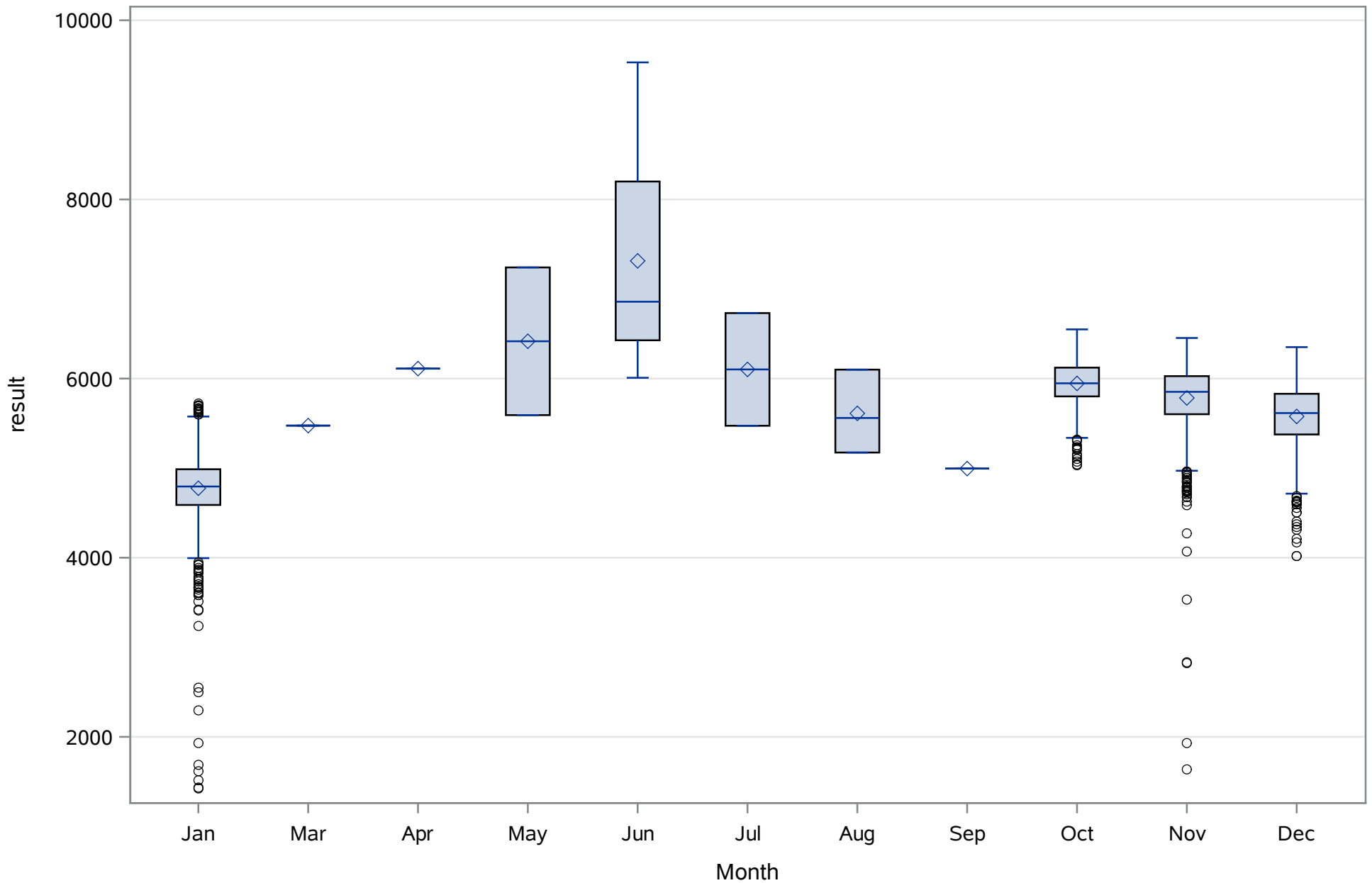


— Timeseries △ Outlier - - - Predicted

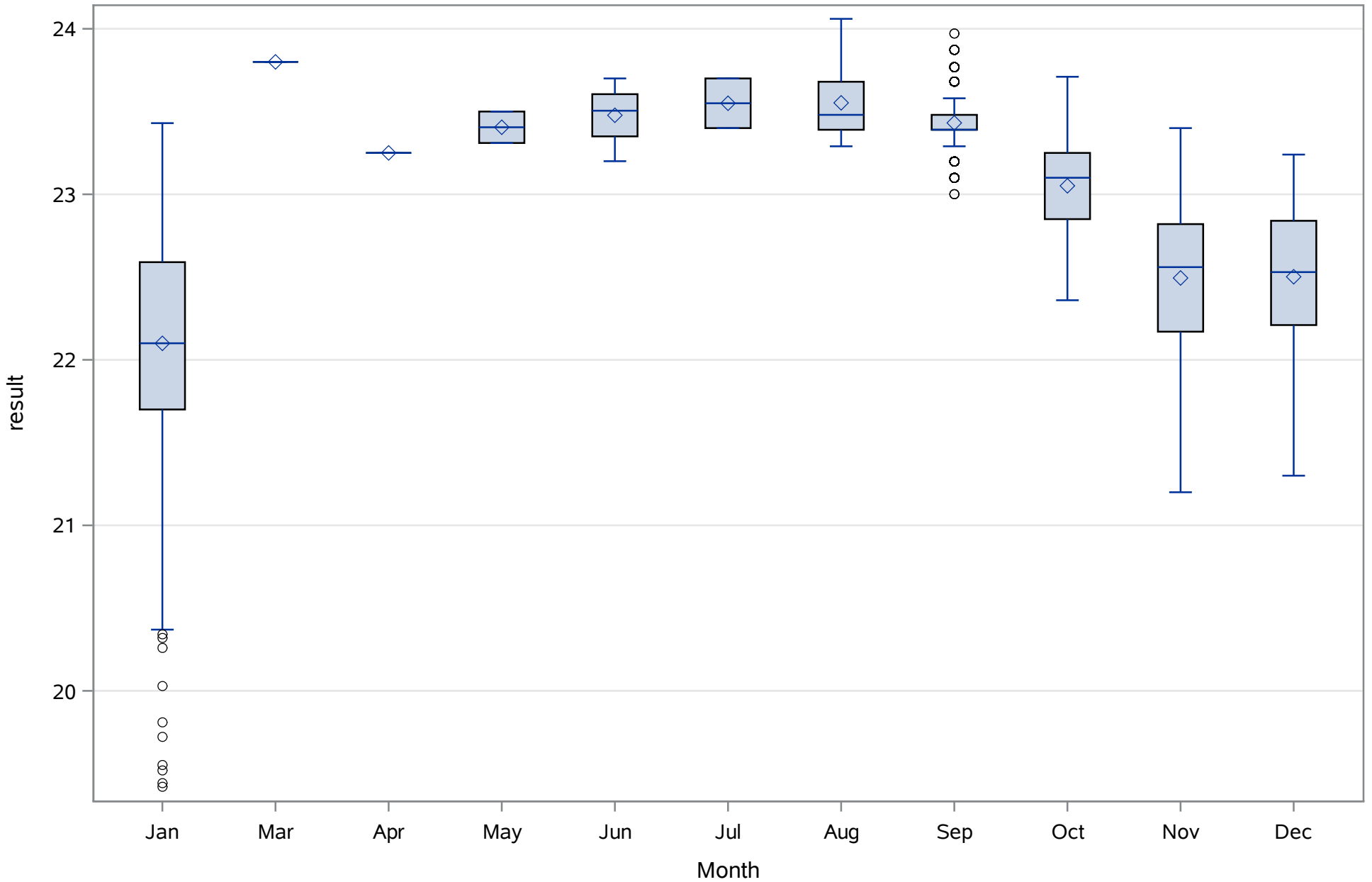
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Specific Conductance (Total) uS/cm



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crab Creek
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Depth (Total)	Meters	APR2014	JUN2017	26	3.8%	0.0%	0.0%
Depth, bottom (Total)	Meters	APR2014	JUN2017	25	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	MAY2014	JUN2017	25	0.0%	0.0%	0.0%
Salinity (Total)	ppth	MAY2014	JUN2017	25	4.0%	0.0%	0.0%
Secchi-vertical (Total)	Meters	JUN2015	JUN2017	14	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	APR2014	JUN2017	5642	2.4%	2.0%	0.2%
Stage (Total)	Ft.	JUN2015	JUN2017	14	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	APR2014	JUN2017	7417	2.2%	1.8%	0.6%
pH (Total)	SU	MAY2014	JUN2017	25	8.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station

Source: MFL Monitoring

Chassahowitzka Potter Creek

Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	26	Sum Weights	26
Mean	0.26884615	Sum Observations	6.99
Std Deviation	0.11211876	Variance	0.01257062
Skewness	1.31250833	Kurtosis	2.38746167
Uncorrected SS	2.1935	Corrected SS	0.31426538
Coeff Variation	41.703686	Std Error Mean	0.0219883

Basic Statistical Measures			
Location		Variability	
Mean	0.268846	Std Deviation	0.11212
Median	0.250000	Variance	0.01257
Mode	0.250000	Range	0.50000
		Interquartile Range	0.09000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.22678	Pr > t 	<.0001
Sign	M	13	Pr >= M 	<.0001
Signed Rank	S	175.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.60
99%	0.60
95%	0.50
90%	0.45
75% Q3	0.30
50% Median	0.25
25% Q1	0.21
10%	0.15
5%	0.10
1%	0.10
0% Min	0.10

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth (Total) Meters

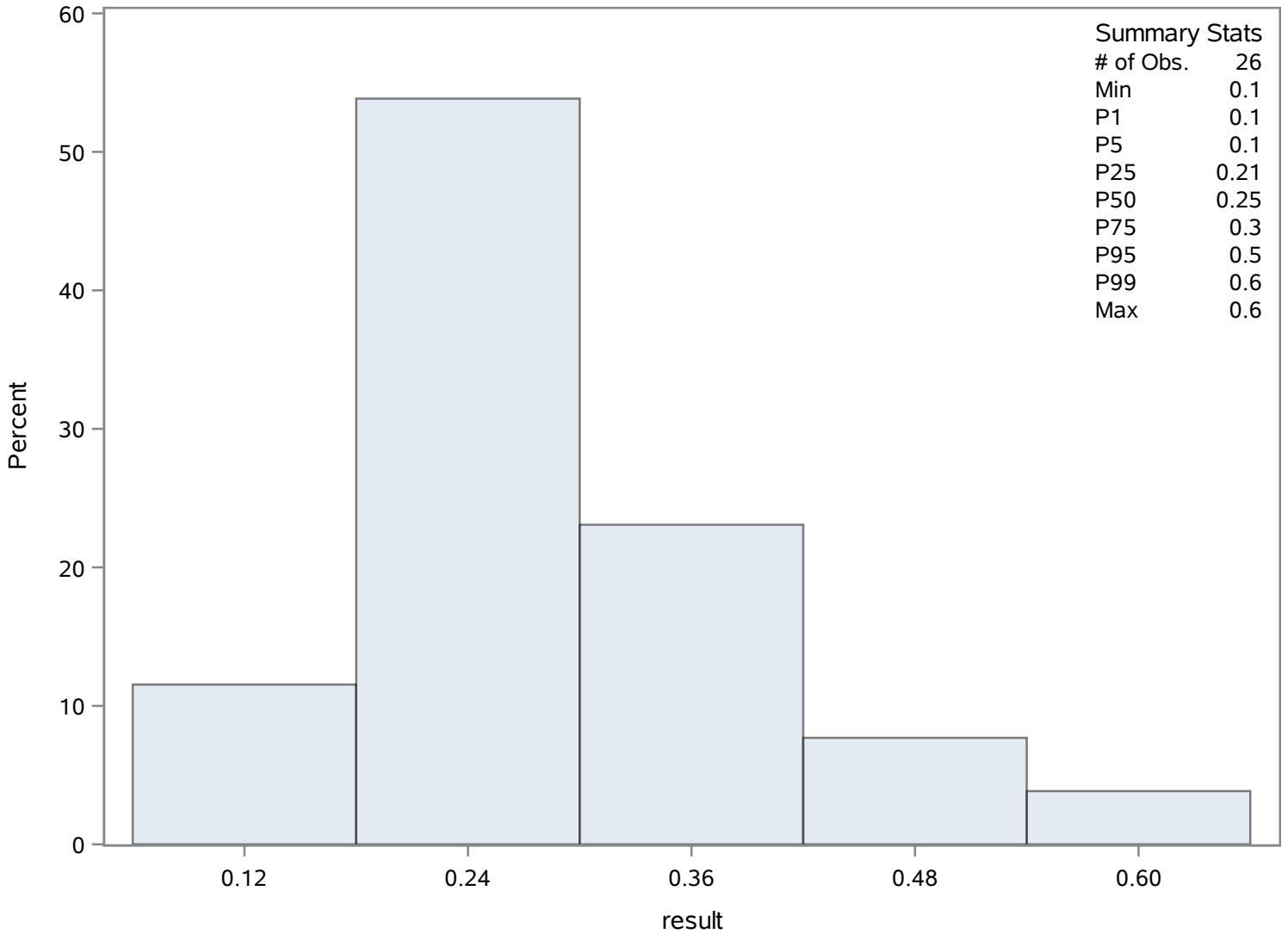
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	19	0.34	14
0.10	18	0.35	26
0.15	11	0.45	7
0.20	25	0.50	6
0.20	16	0.60	23

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: MFL Monitoring

Chassahowitzka Potter Creek

Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	0.4552	Sum Observations	11.38
Std Deviation	0.13038788	Variance	0.017001
Skewness	-0.3001248	Kurtosis	-0.0529142
Uncorrected SS	5.5882	Corrected SS	0.408024
Coeff Variation	28.6440867	Std Error Mean	0.02607758

Basic Statistical Measures			
Location		Variability	
Mean	0.455200	Std Deviation	0.13039
Median	0.450000	Variance	0.01700
Mode	0.420000	Range	0.50000
		Interquartile Range	0.15000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.45561	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.68
99%	0.68
95%	0.68
90%	0.62
75% Q3	0.55
50% Median	0.45
25% Q1	0.40
10%	0.30
5%	0.20

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth, bottom (Total) Meters

The UNIVARIATE Procedure
Variable: result

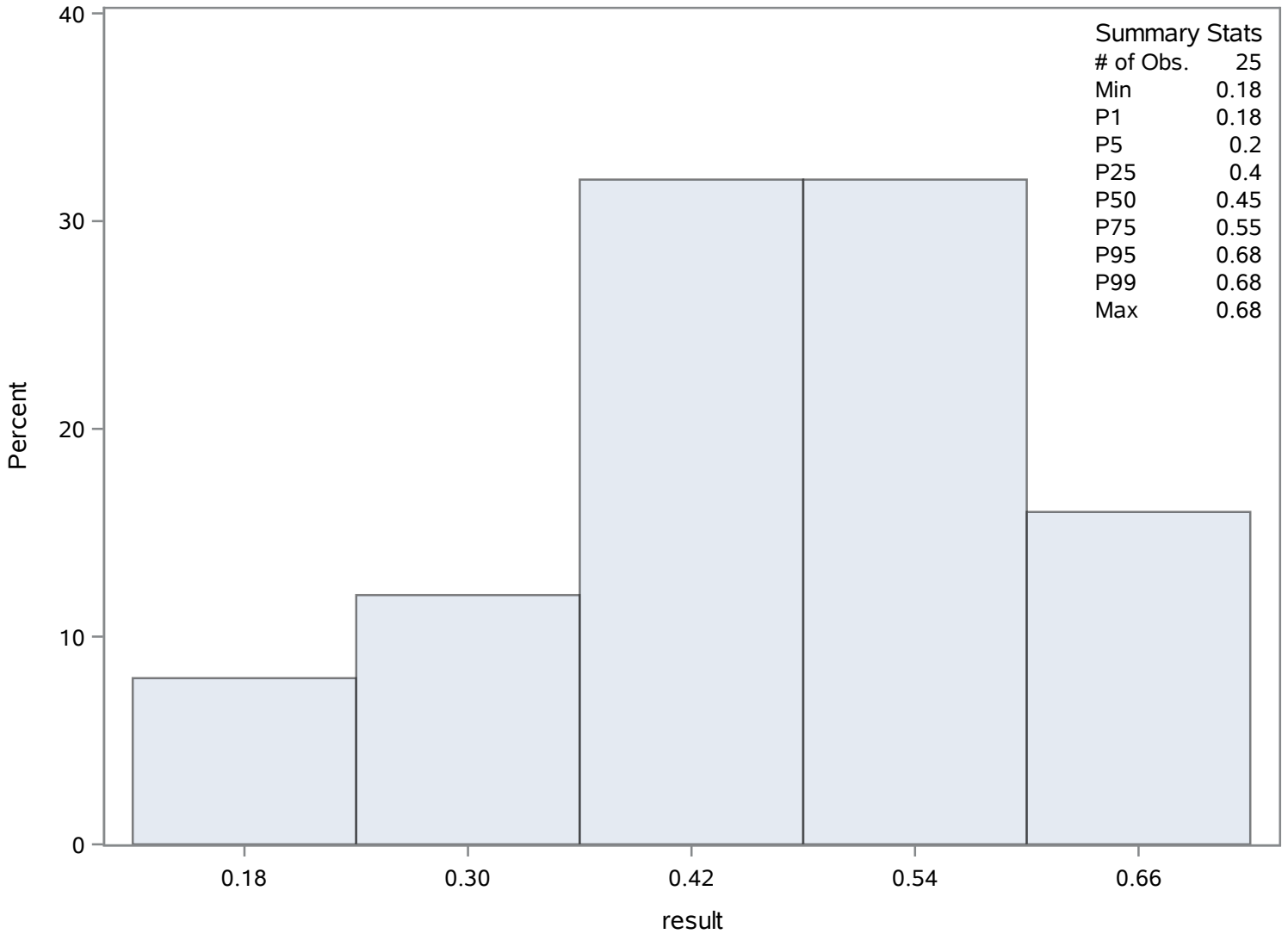
Quantiles (Definition 5)	
Level	Quantile
1%	0.18
0% Min	0.18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.18	44	0.56	34
0.20	45	0.60	35
0.30	50	0.62	48
0.30	37	0.68	32
0.32	27	0.68	40

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth, bottom (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	6.116	Sum Observations	152.9
Std Deviation	3.09730259	Variance	9.59328333
Skewness	0.93082326	Kurtosis	-0.4607838
Uncorrected SS	1165.3752	Corrected SS	230.2388
Coeff Variation	50.6426192	Std Error Mean	0.61946052

Basic Statistical Measures			
Location		Variability	
Mean	6.116000	Std Deviation	3.09730
Median	4.500000	Variance	9.59328
Mode	4.070000	Range	9.80000
		Interquartile Range	4.08000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.873107	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.61
99%	12.61
95%	12.40
90%	11.17
75% Q3	8.13
50% Median	4.50
25% Q1	4.05
10%	3.07
5%	2.99
1%	2.81
0% Min	2.81

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Dissolved Oxygen (Total) mg/L

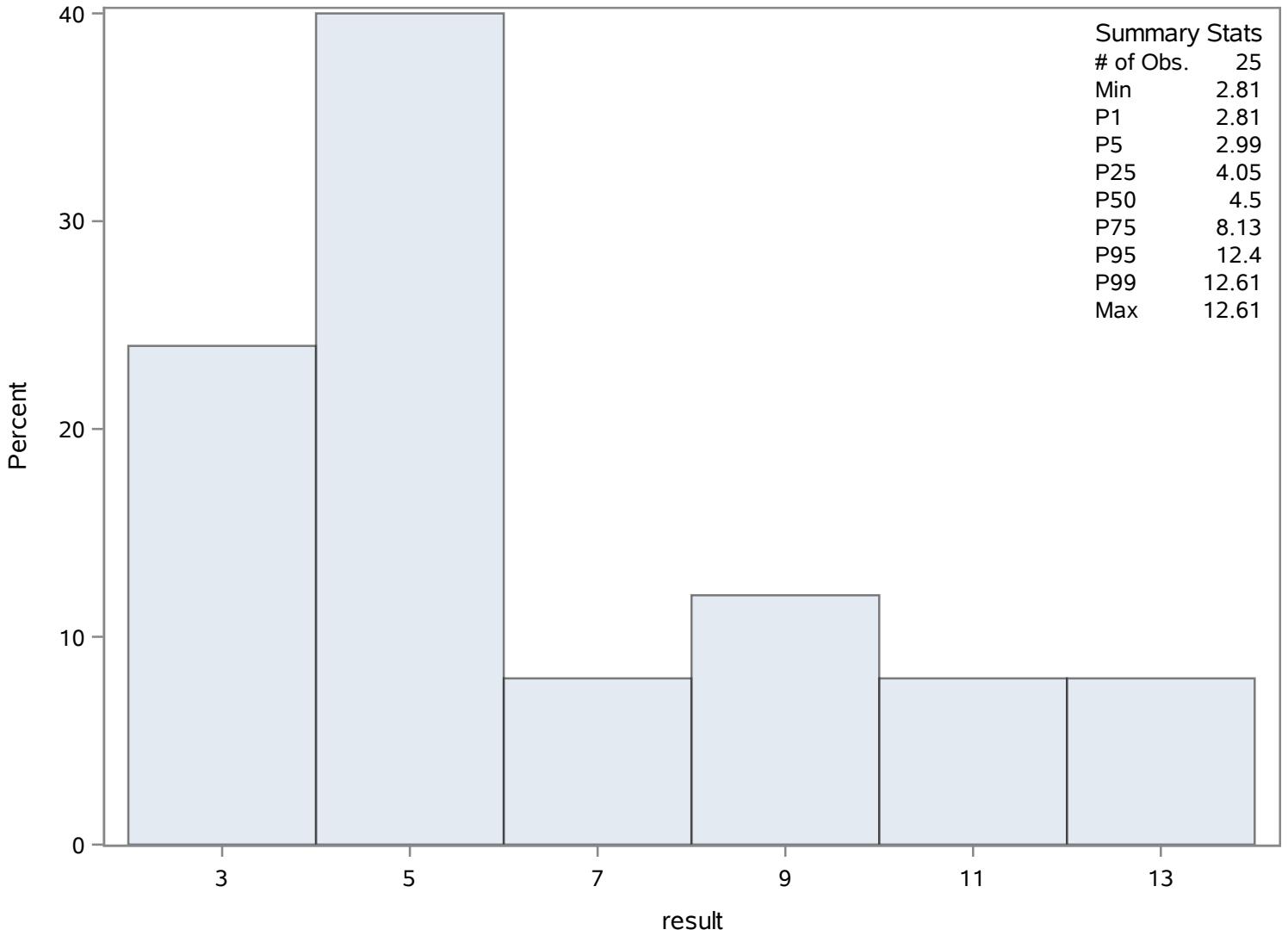
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.81	54	9.34	67
2.99	76	10.40	62
3.07	65	11.17	69
3.31	71	12.40	53
3.54	75	12.61	52

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	3.1152	Sum Observations	77.88
Std Deviation	1.48503962	Variance	2.20534267
Skewness	1.19736506	Kurtosis	1.17372294
Uncorrected SS	295.54	Corrected SS	52.928224
Coeff Variation	47.6707633	Std Error Mean	0.29700792

Basic Statistical Measures			
Location		Variability	
Mean	3.115200	Std Deviation	1.48504
Median	2.750000	Variance	2.20534
Mode	.	Range	5.84000
		Interquartile Range	1.73000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.48861	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.19
99%	7.19
95%	6.15
90%	5.02
75% Q3	3.73
50% Median	2.75
25% Q1	2.00
10%	1.58
5%	1.56
1%	1.35
0% Min	1.35

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Salinity (Total) ppt

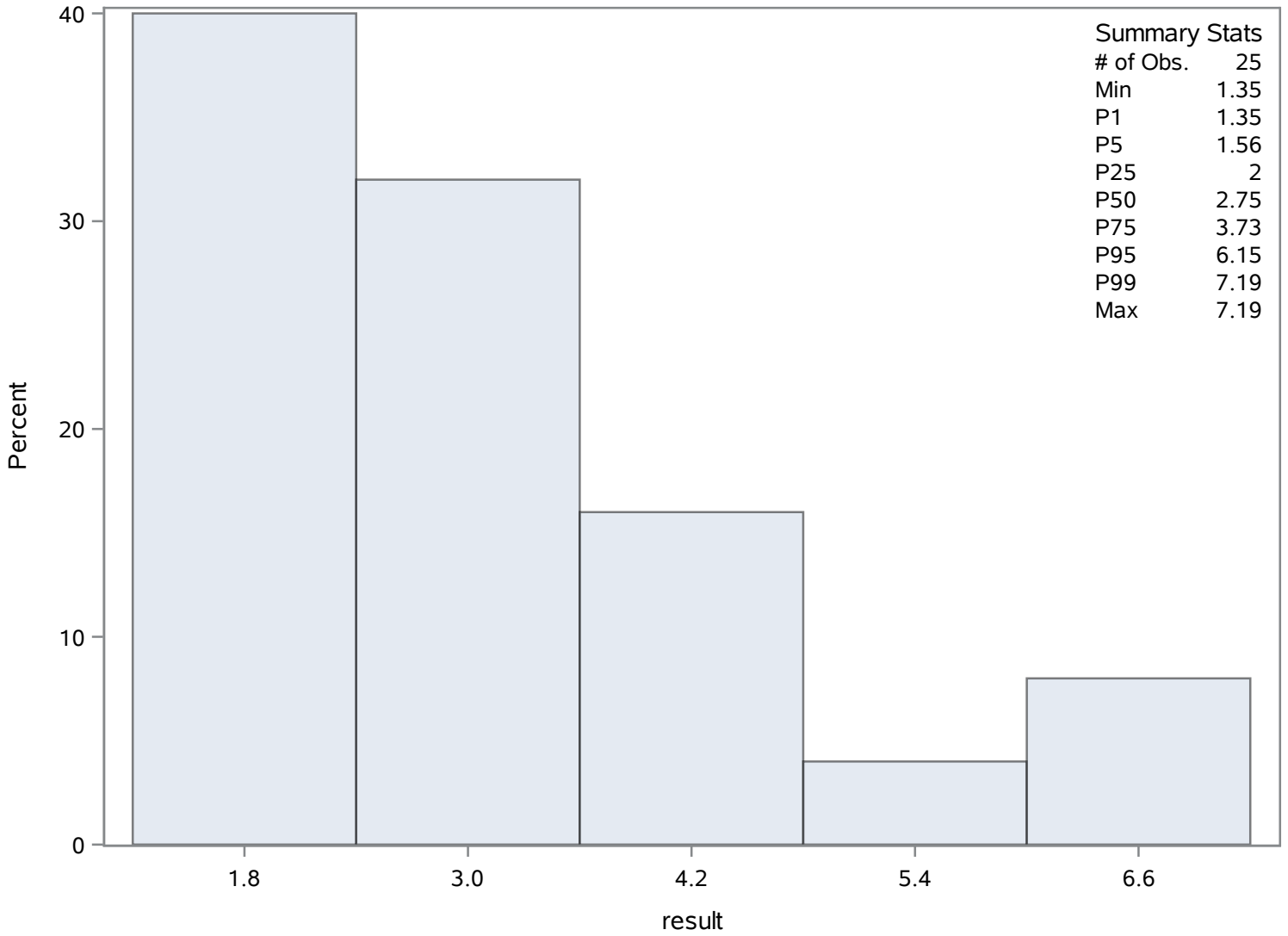
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.35	86	4.30	78
1.56	83	4.73	100
1.58	85	5.02	95
1.85	84	6.15	94
1.96	88	7.19	93

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	5642	Sum Weights	5642
Mean	5520.13506	Sum Observations	31144602
Std Deviation	992.320117	Variance	984699.214
Skewness	-0.3972527	Kurtosis	0.36703111
Uncorrected SS	1.77477E11	Corrected SS	5554688265
Coeff Variation	17.9763739	Std Error Mean	13.2109867

Basic Statistical Measures			
Location		Variability	
Mean	5520.135	Std Deviation	992.32012
Median	5601.000	Variance	984699
Mode	5506.000	Range	10242
		Interquartile Range	1231

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	417.8443	Pr > t 	<.0001
Sign	M	2821	Pr >= M 	<.0001
Signed Rank	S	7959452	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12536
99%	7396
95%	6882
90%	6623
75% Q3	6252
50% Median	5601
25% Q1	5021
10%	3905
5%	3628
1%	3289
0% Min	2294

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Specific Conductance (Total) uS/cm

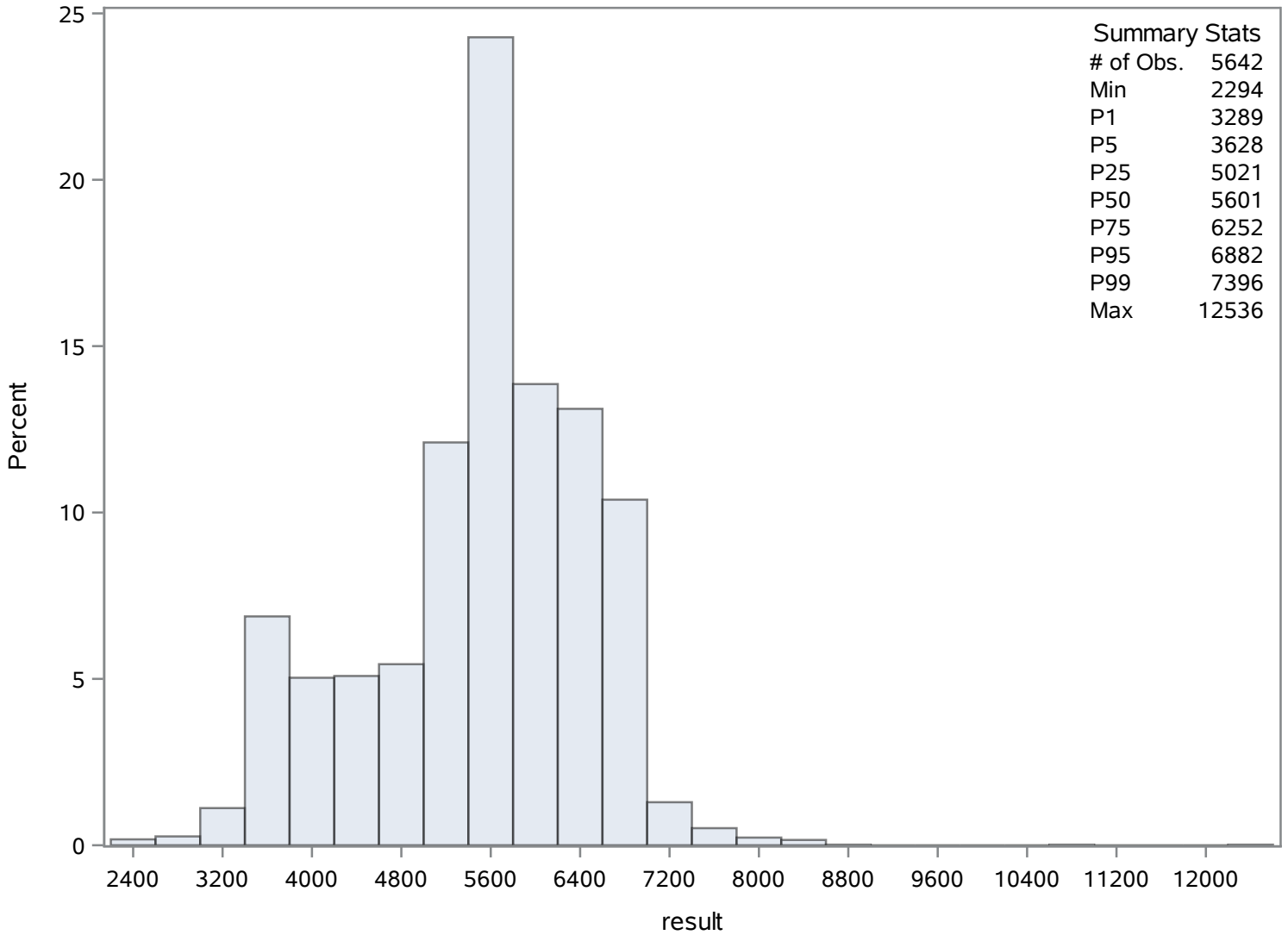
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2294	4971	8387	2699
2297	4972	8480	5742
2301	4970	8959	5737
2310	4969	10870	5736
2338	4968	12536	5735

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: MFL Monitoring

Chassahowitzka Potter Creek

Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	7417	Sum Weights	7417
Mean	22.2688432	Sum Observations	165168.01
Std Deviation	1.30607676	Variance	1.7058365
Skewness	0.30175857	Kurtosis	0.42122183
Uncorrected SS	3690751	Corrected SS	12650.4835
Coeff Variation	5.86504089	Std Error Mean	0.01516542

Basic Statistical Measures			
Location		Variability	
Mean	22.26884	Std Deviation	1.30608
Median	22.21000	Variance	1.70584
Mode	23.29000	Range	9.44000
		Interquartile Range	1.89000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	1468.396	Pr > t 	<.0001
Sign	M	3708.5	Pr >= M 	<.0001
Signed Rank	S	13754827	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	28.46
99%	25.71
95%	24.35
90%	23.77
75% Q3	23.23
50% Median	22.21
25% Q1	21.34
10%	20.65
5%	20.21
1%	19.51
0% Min	19.02

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Temperature (Total) Deg. C

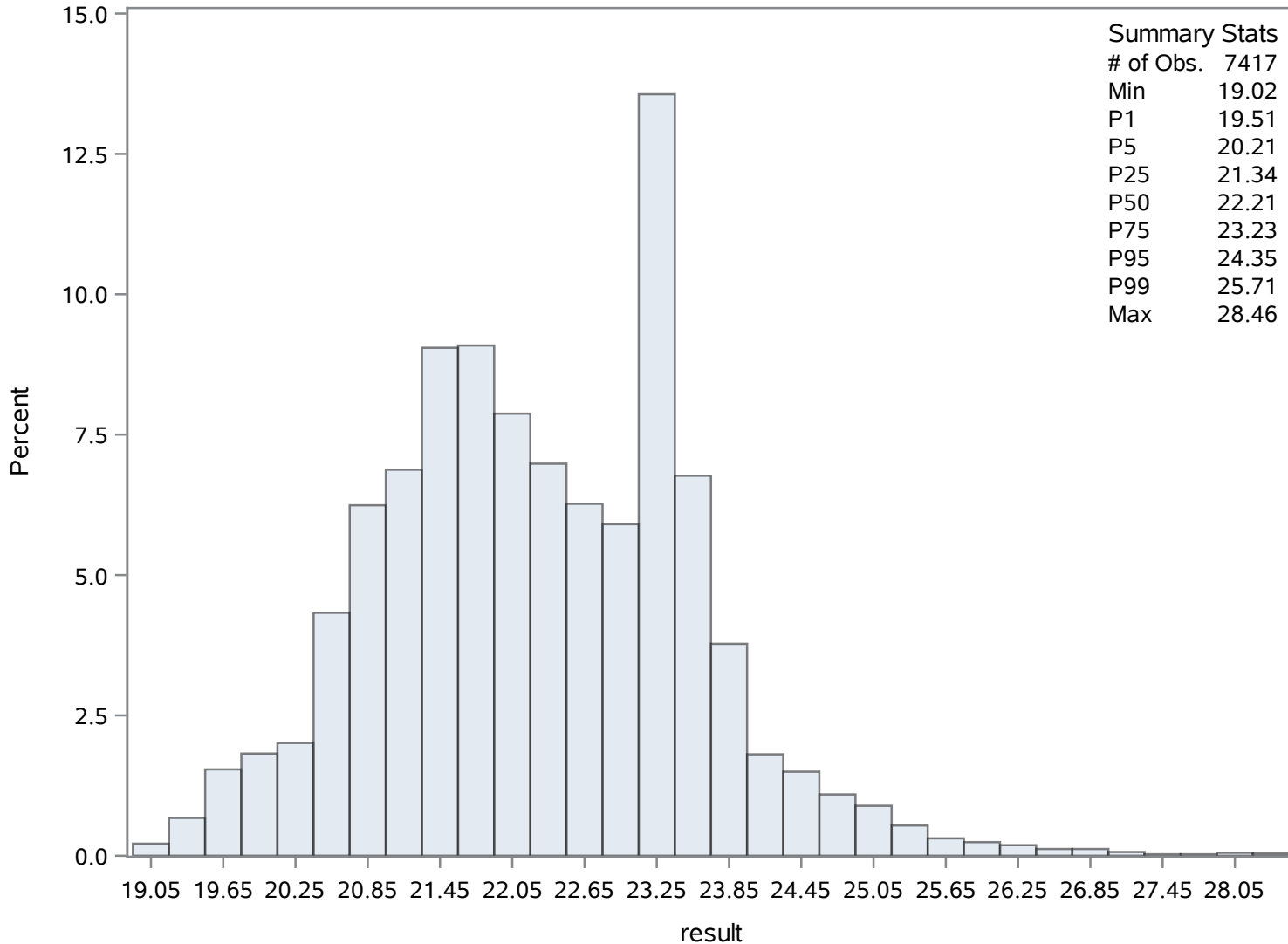
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19.02	11638	28.06	5900
19.03	11637	28.16	5902
19.04	13091	28.26	5852
19.05	13092	28.36	5901
19.05	13090	28.46	5853

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: MFL Monitoring

Chassahowitzka Potter Creek

pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	7.4184	Sum Observations	185.46
Std Deviation	0.24144841	Variance	0.05829733
Skewness	1.12947604	Kurtosis	0.89311706
Uncorrected SS	1377.2156	Corrected SS	1.399136
Coeff Variation	3.25472349	Std Error Mean	0.04828968

Basic Statistical Measures			
Location		Variability	
Mean	7.418400	Std Deviation	0.24145
Median	7.350000	Variance	0.05830
Mode	7.300000	Range	0.93000
		Interquartile Range	0.25000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	153.6229	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.03
99%	8.03
95%	7.95
90%	7.77
75% Q3	7.50
50% Median	7.35
25% Q1	7.25
10%	7.16
5%	7.15

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

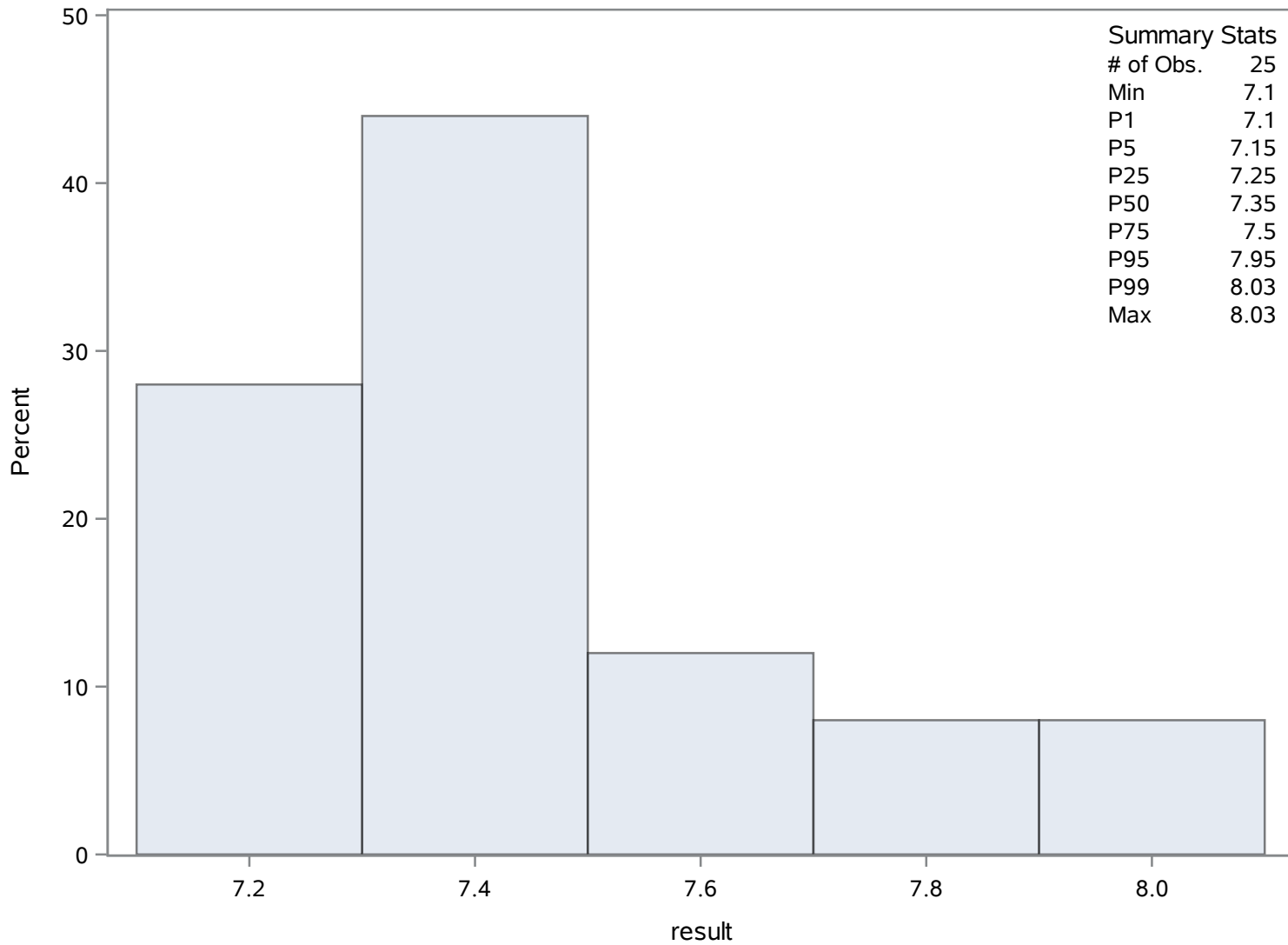
Quantiles (Definition 5)	
Level	Quantile
1%	7.10
0% Min	7.10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.10	13163	7.63	13170
7.15	13172	7.72	13178
7.16	13185	7.77	13171
7.17	13173	7.95	13162
7.21	13164	8.03	13161

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
pH (Total) SU

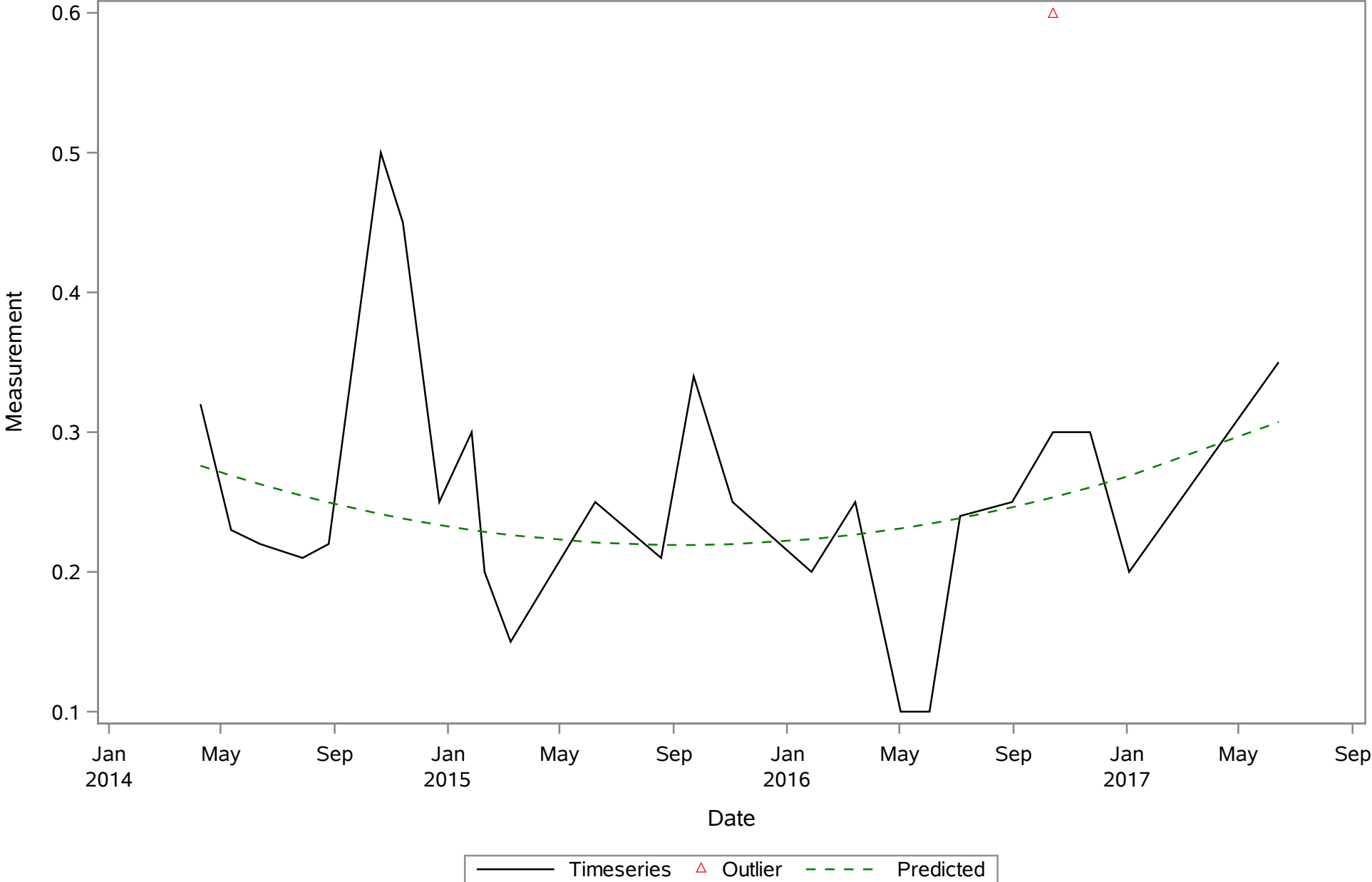
The UNIVARIATE Procedure

Distribution of result

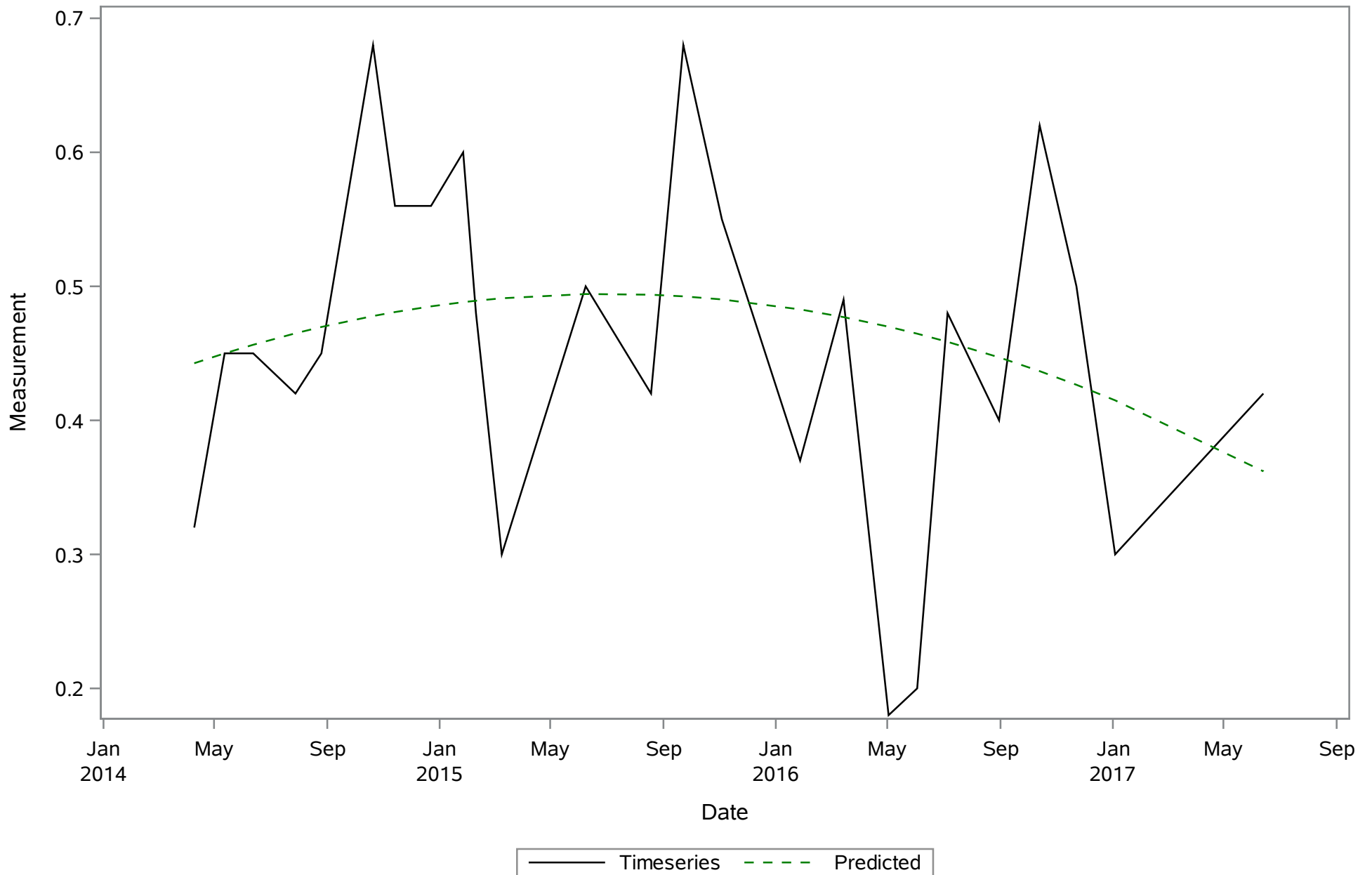


Chassahowitzka River - Fixed Station

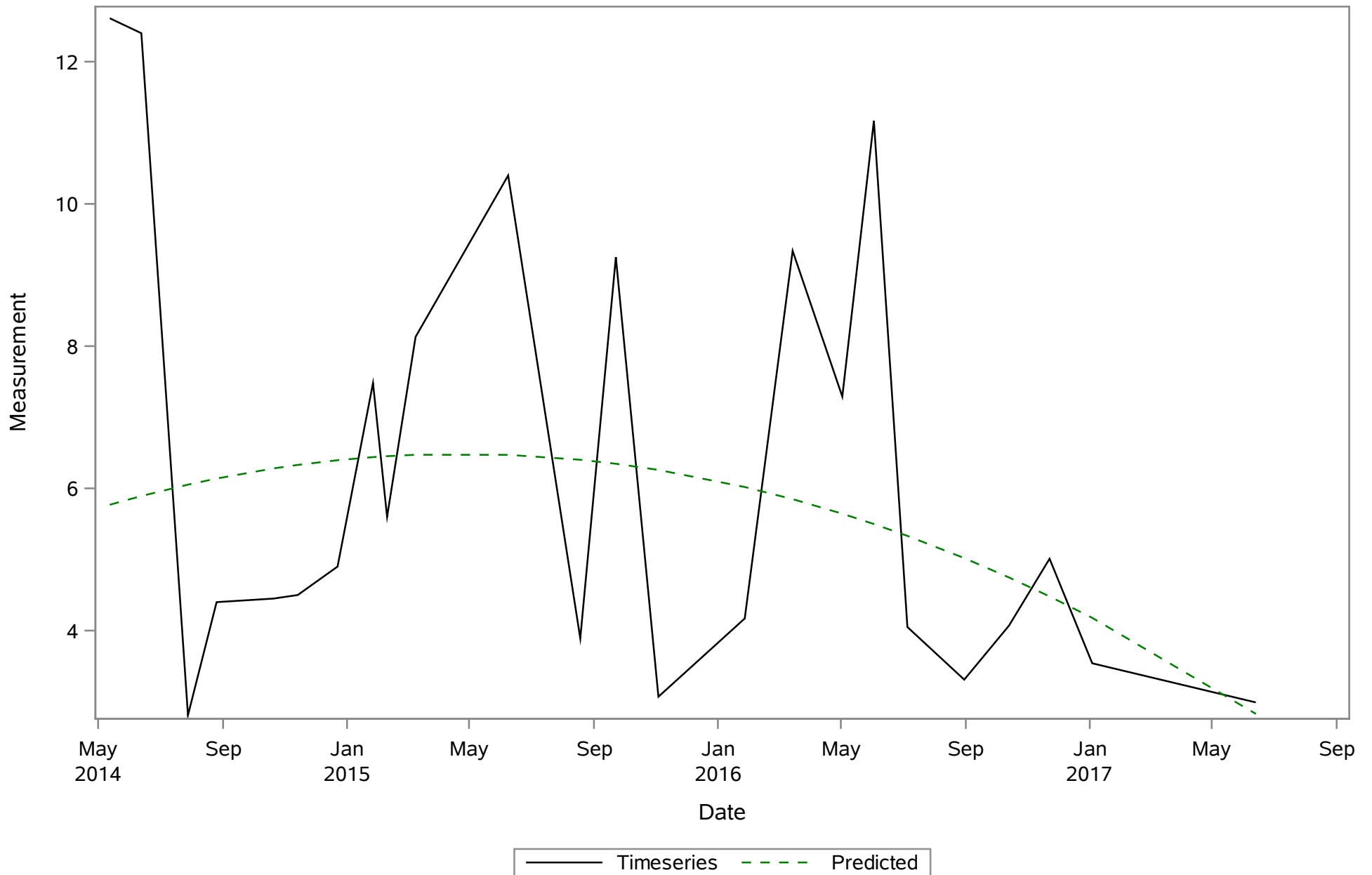
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth (Total) Meters



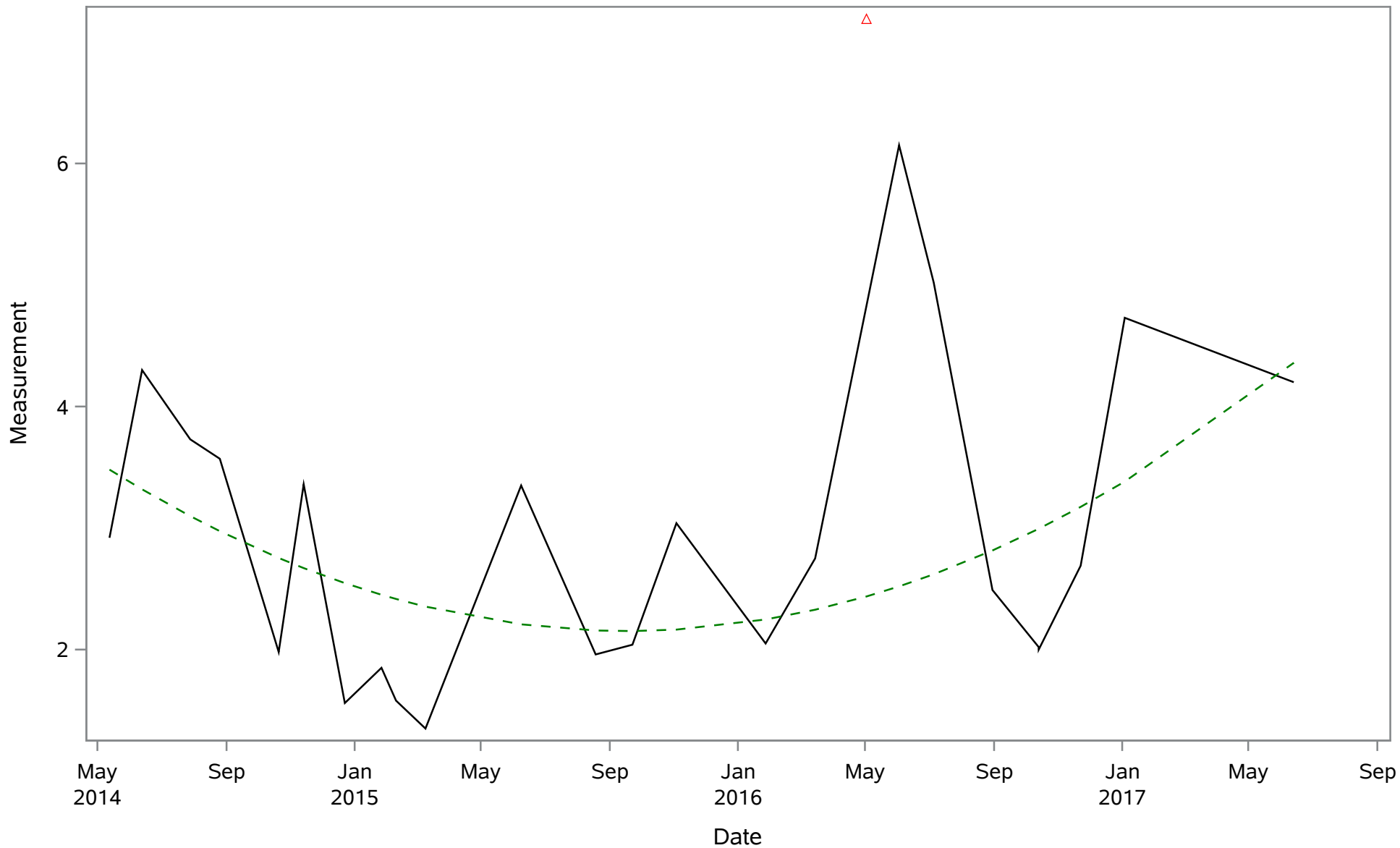
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth, bottom (Total) Meters



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Dissolved Oxygen (Total) mg/L

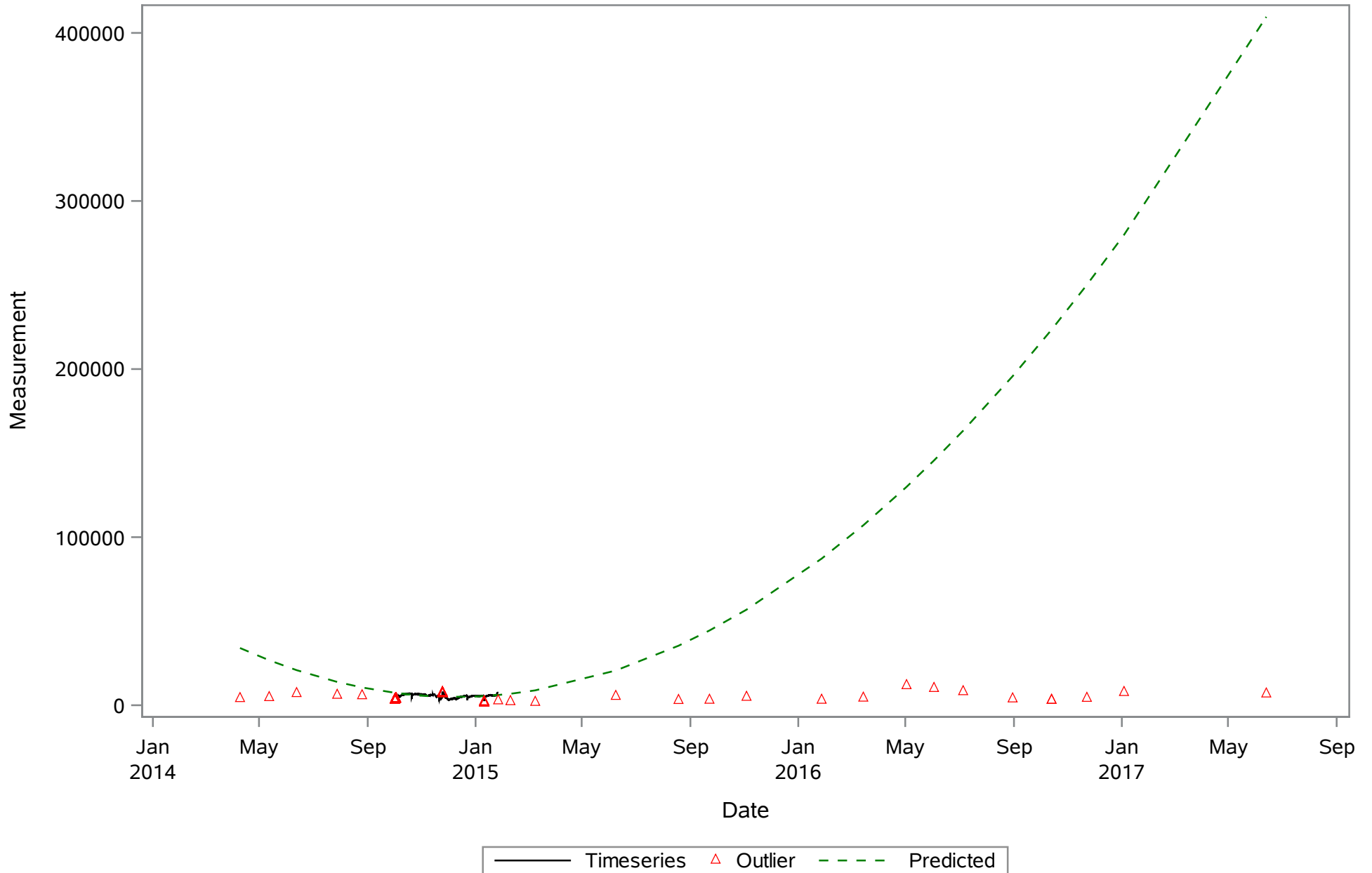


Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Salinity (Total) ppth

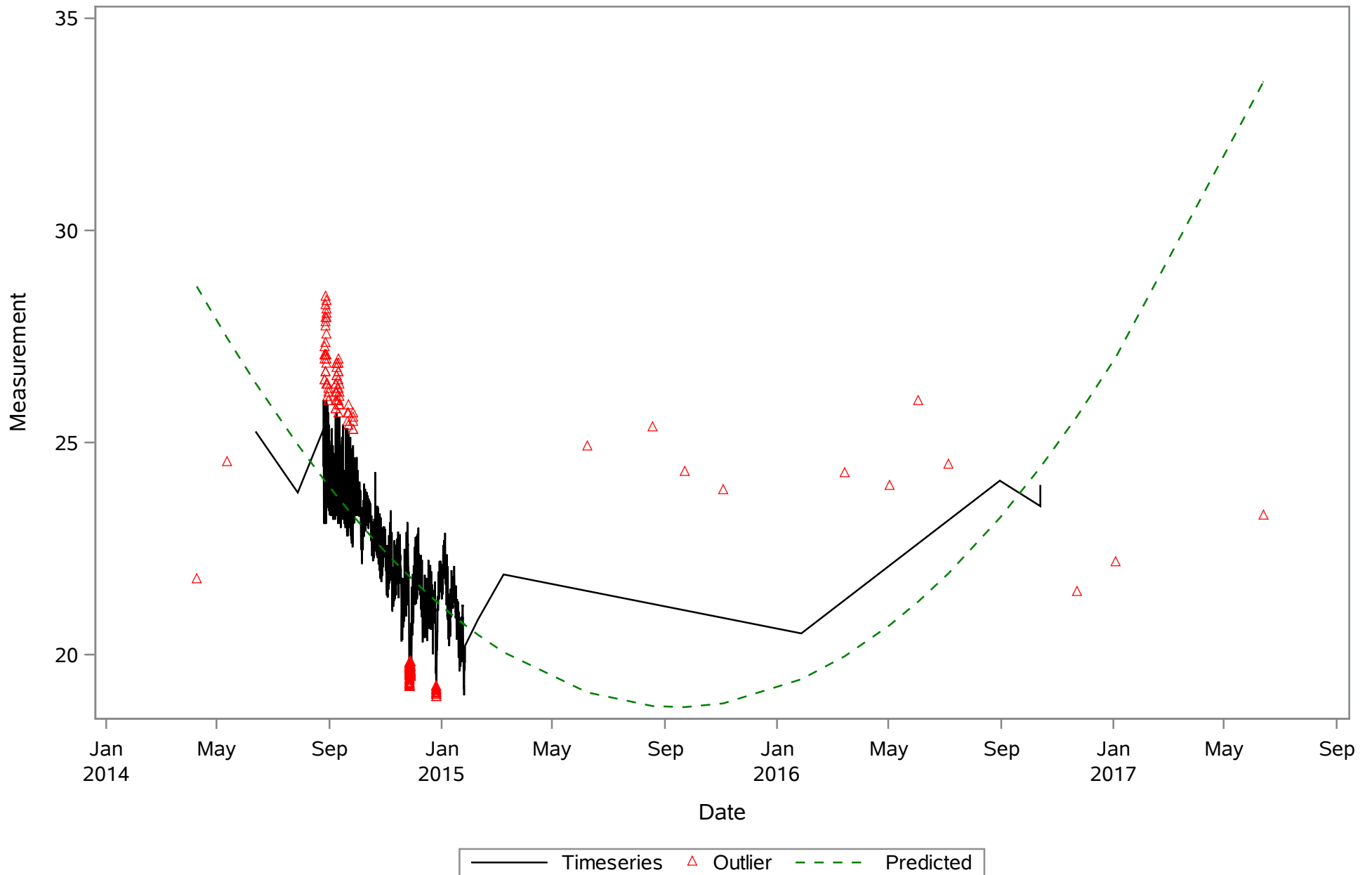


— Timeseries △ Outlier - - - Predicted

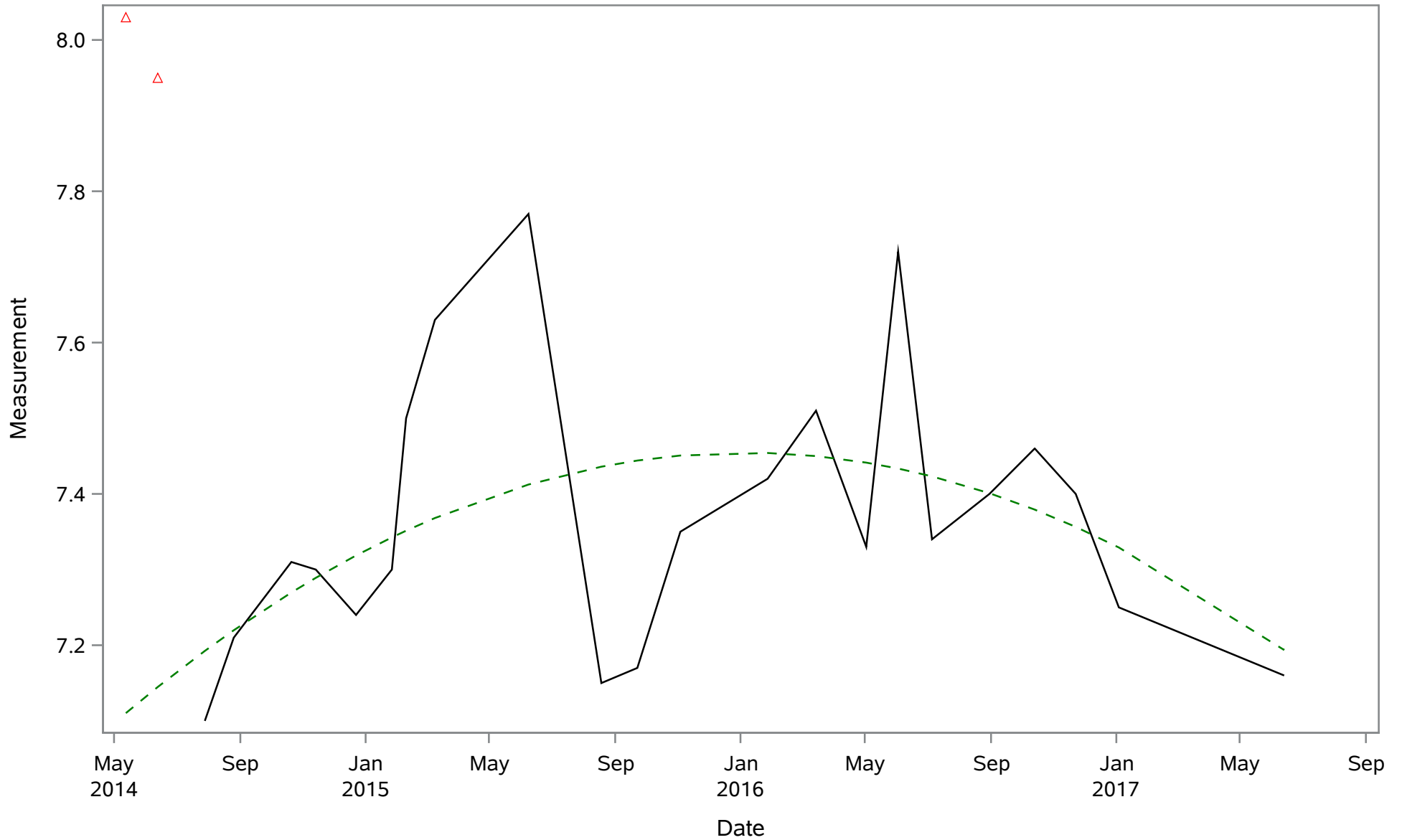
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Specific Conductance (Total) uS/cm



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Temperature (Total) Deg. C

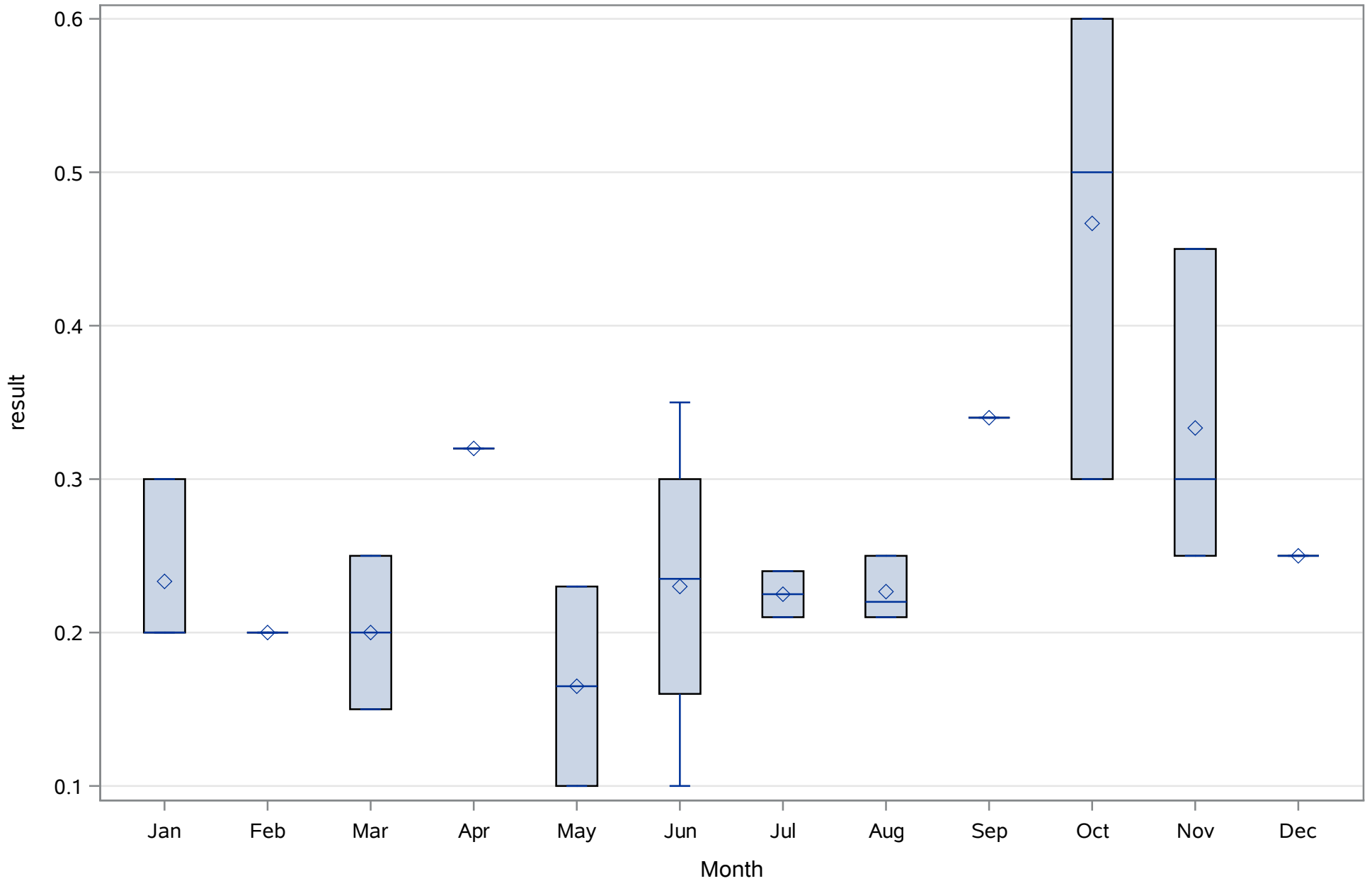


Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
pH (Total) SU

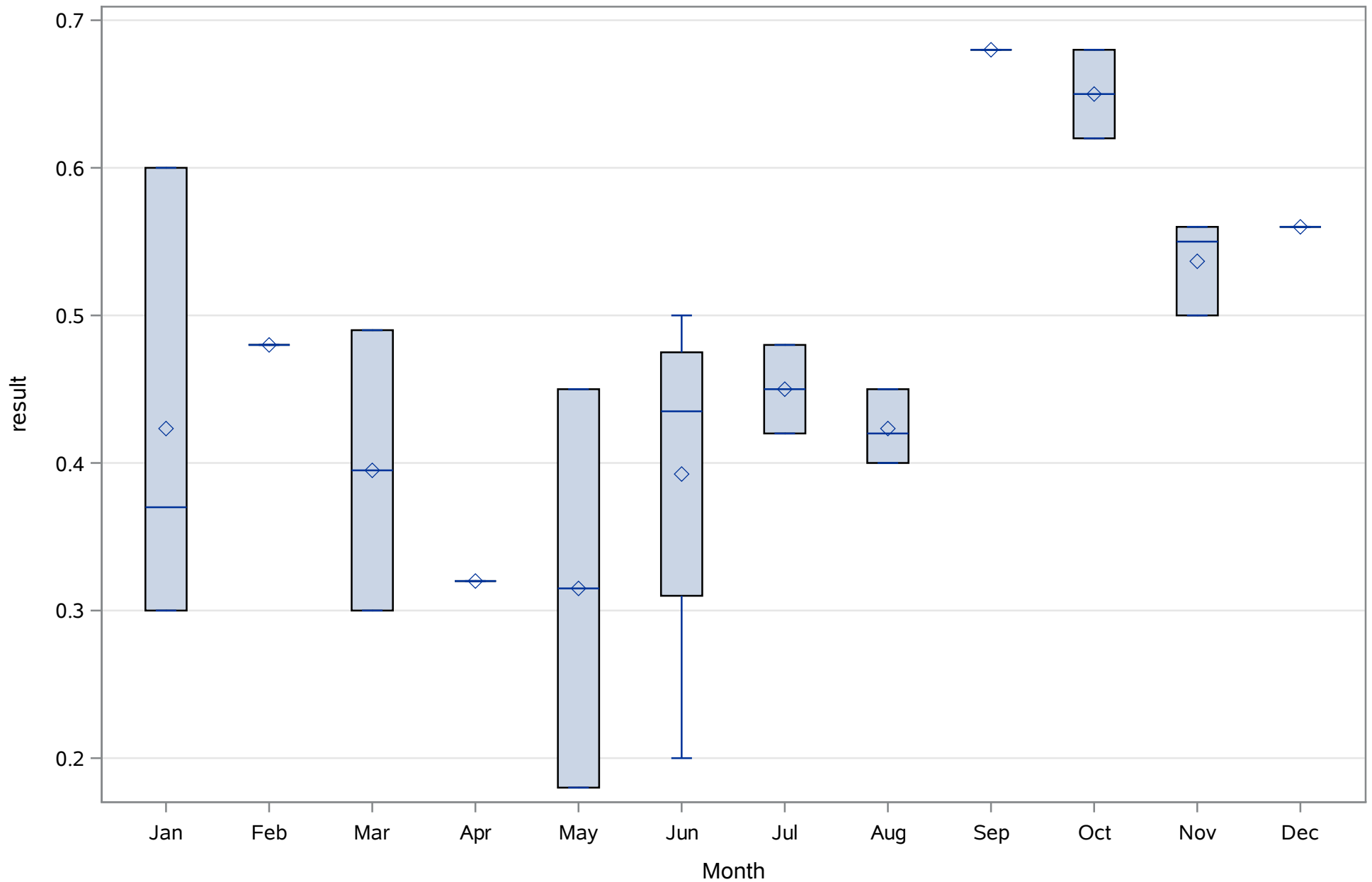


— Timeseries ▲ Outlier - - - Predicted

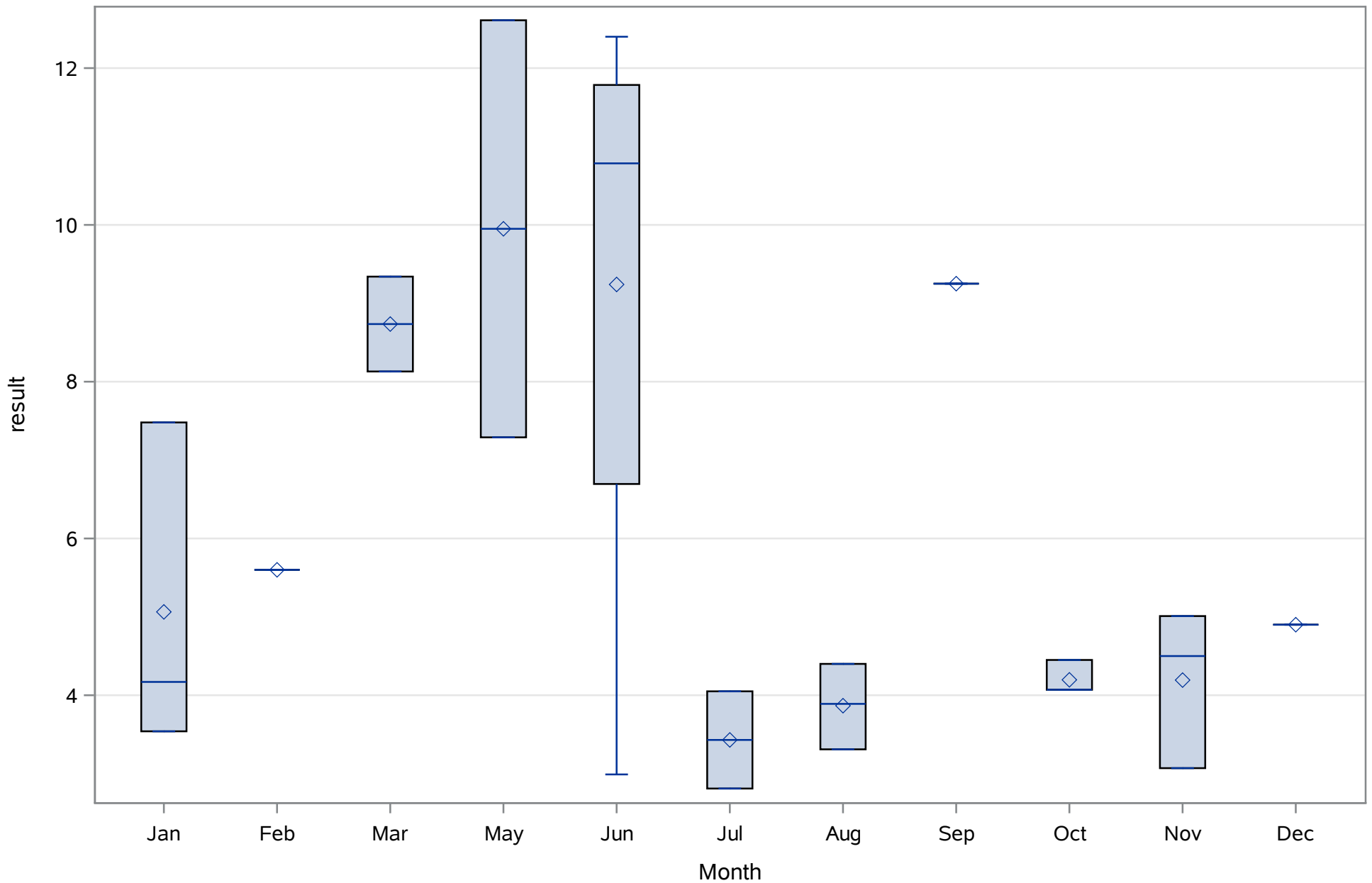
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth (Total) Meters



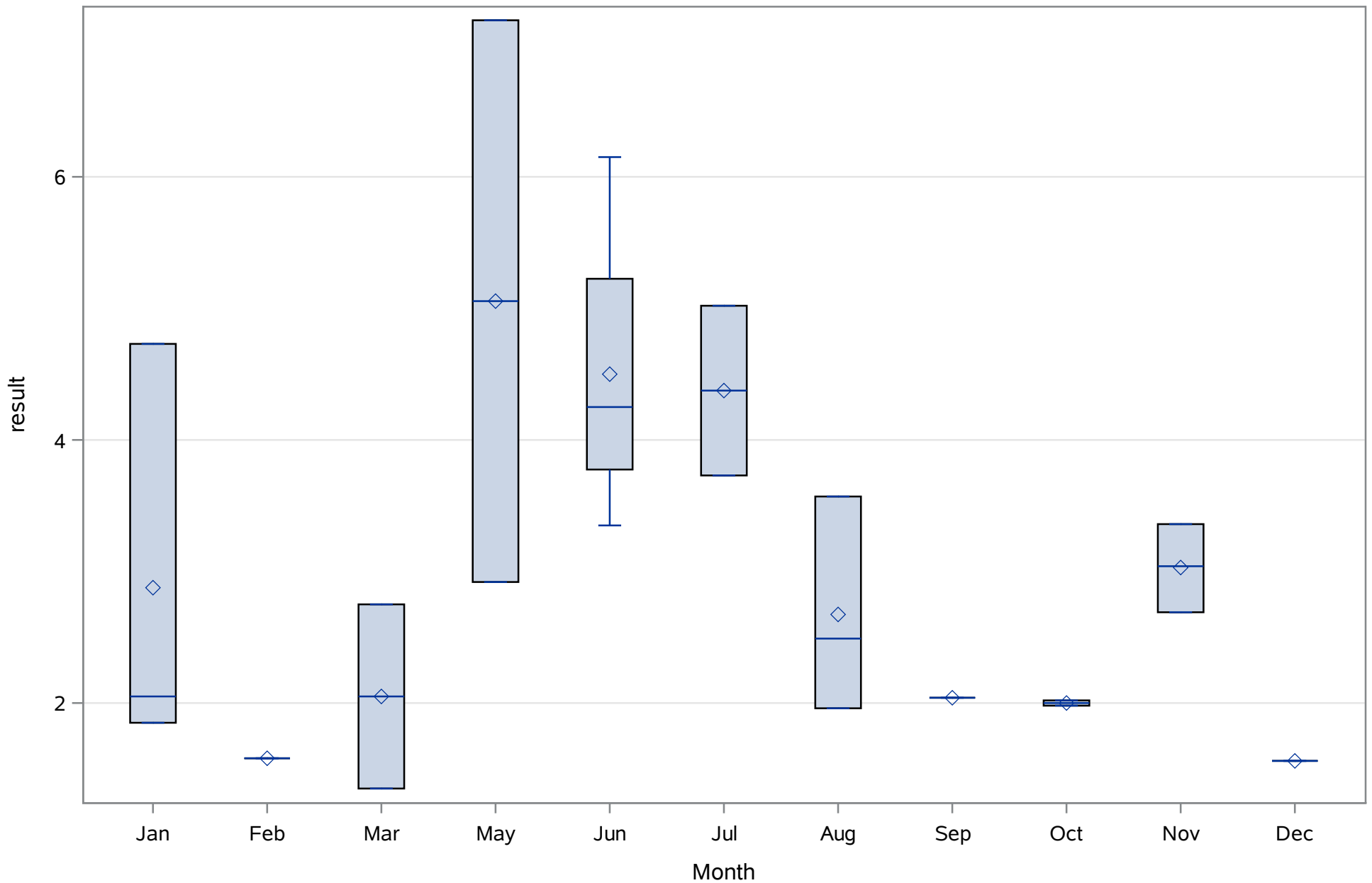
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Depth, bottom (Total) Meters



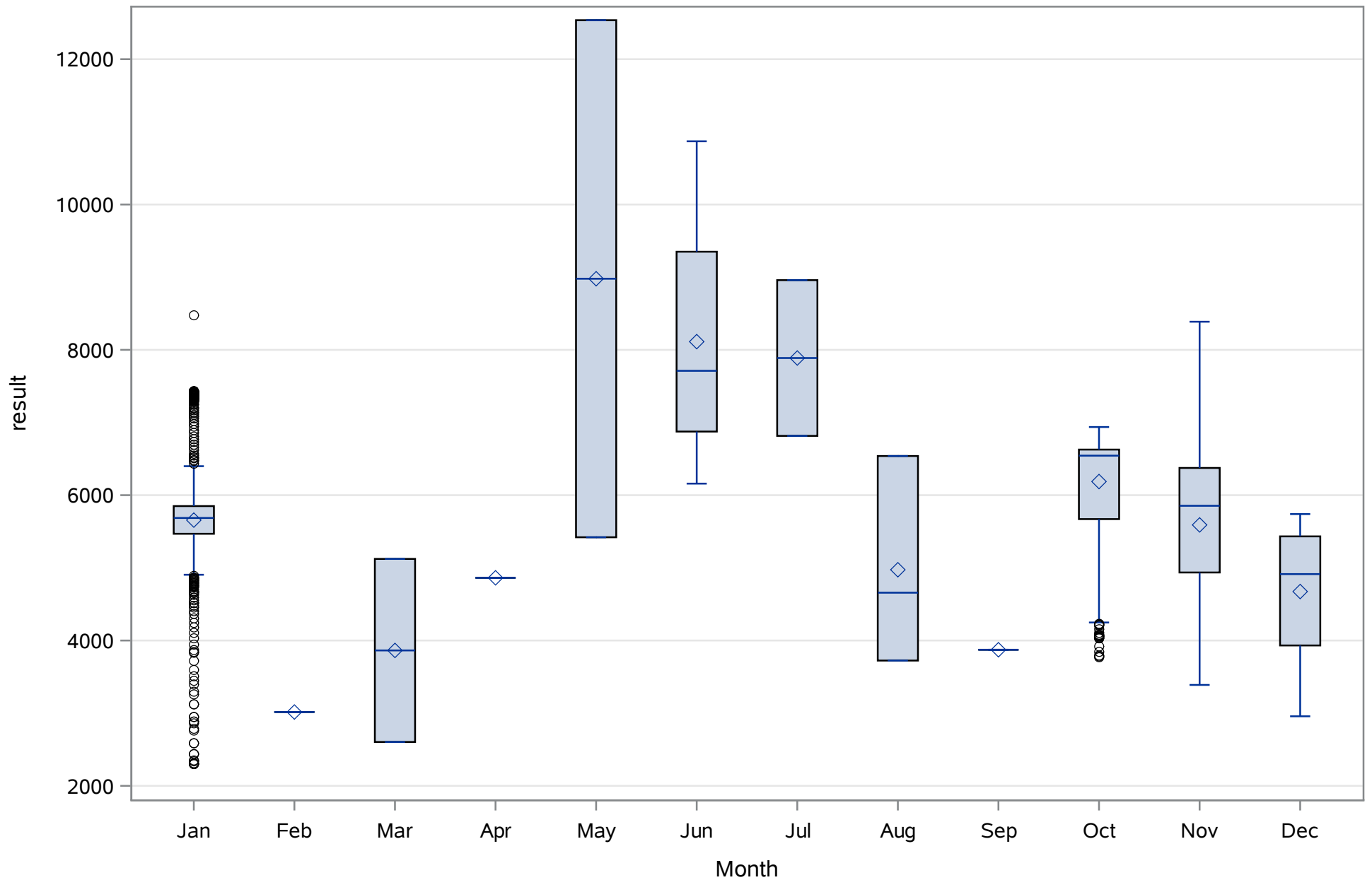
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Dissolved Oxygen (Total) mg/L



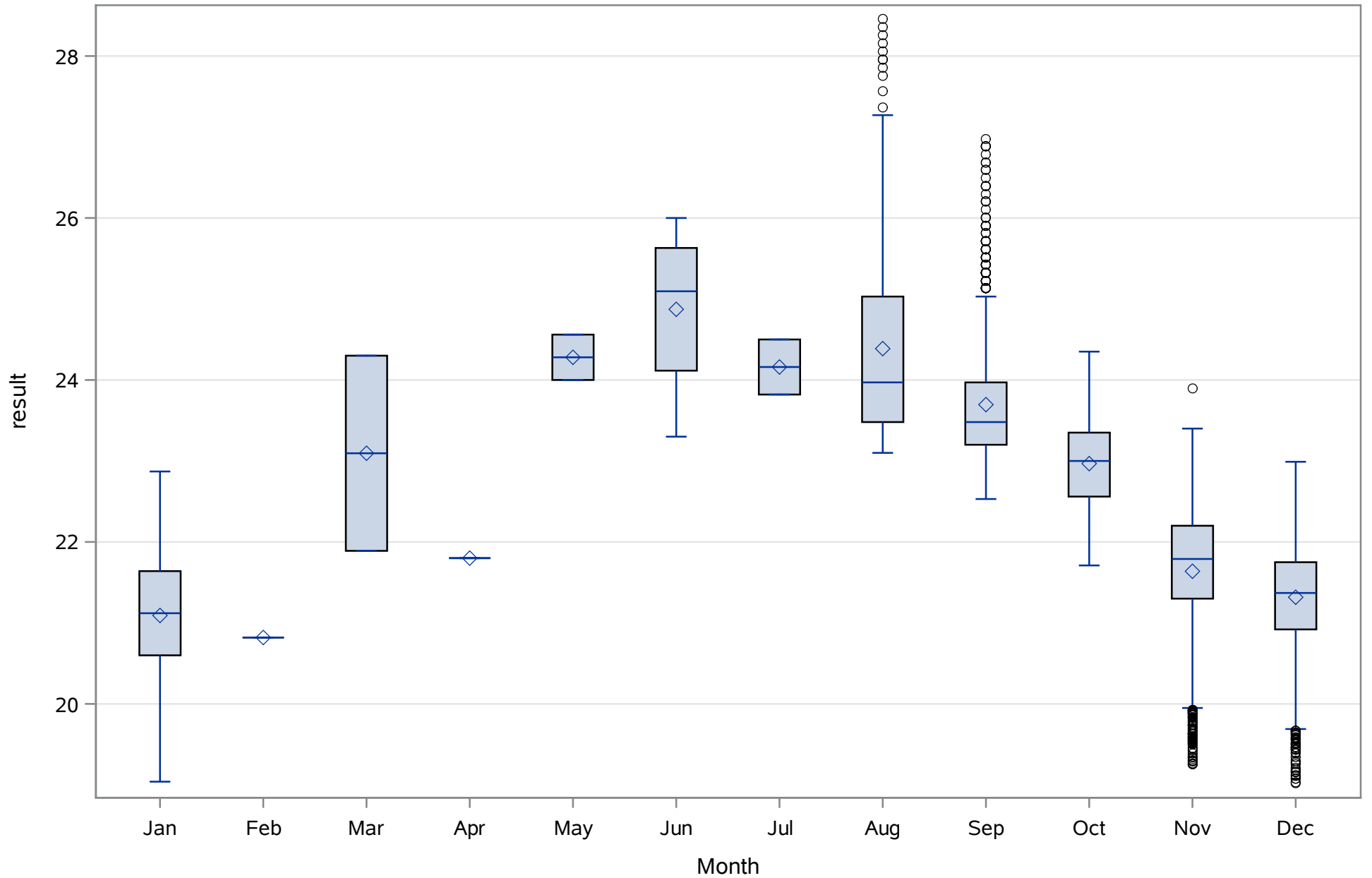
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Salinity (Total) ppt



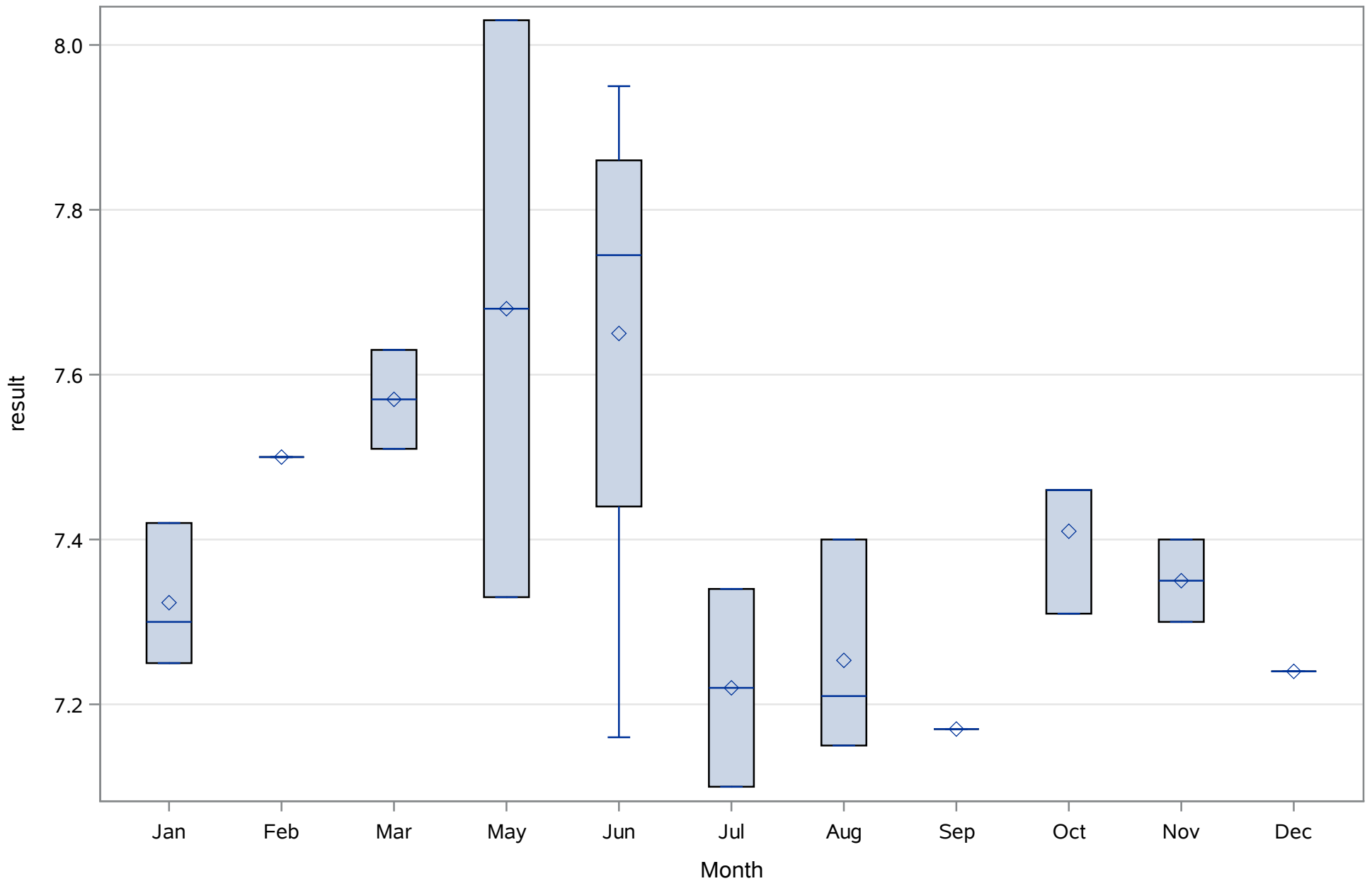
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Specific Conductance (Total) uS/cm



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Potter Creek
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Depth (Total)	Meters	MAY2014	JUN2017	28	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	MAY2014	JUN2017	18	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	MAY2014	JUN2017	28	0.0%	0.0%	0.0%
Salinity (Total)	ppth	MAY2014	JUN2017	28	3.6%	0.0%	3.6%
Secchi-vertical (Total)	Meters	JUN2015	JUN2017	14	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	MAY2014	JUN2017	5639	8.1%	2.0%	1.2%
Stage (Total)	Ft.	JUN2015	JUN2017	14	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	MAY2014	JUN2017	7419	1.1%	1.9%	0.1%
pH (Total)	SU	MAY2014	JUN2017	28	7.1%	0.0%	0.0%

Chassahowitzka River - Fixed Station

Source: MFL Monitoring

Chassahowitzka Crawford Creek

Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	0.55964286	Sum Observations	15.67
Std Deviation	0.22434237	Variance	0.0503295
Skewness	0.53290111	Kurtosis	0.14994359
Uncorrected SS	10.1285	Corrected SS	1.35889643
Coeff Variation	40.0867024	Std Error Mean	0.04239672

Basic Statistical Measures			
Location		Variability	
Mean	0.559643	Std Deviation	0.22434
Median	0.500000	Variance	0.05033
Mode	0.500000	Range	0.90000
		Interquartile Range	0.25500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.20014	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.100
99%	1.100
95%	1.000
90%	0.850
75% Q3	0.725
50% Median	0.500
25% Q1	0.470
10%	0.250
5%	0.200
1%	0.200
0% Min	0.200

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Depth (Total) Meters

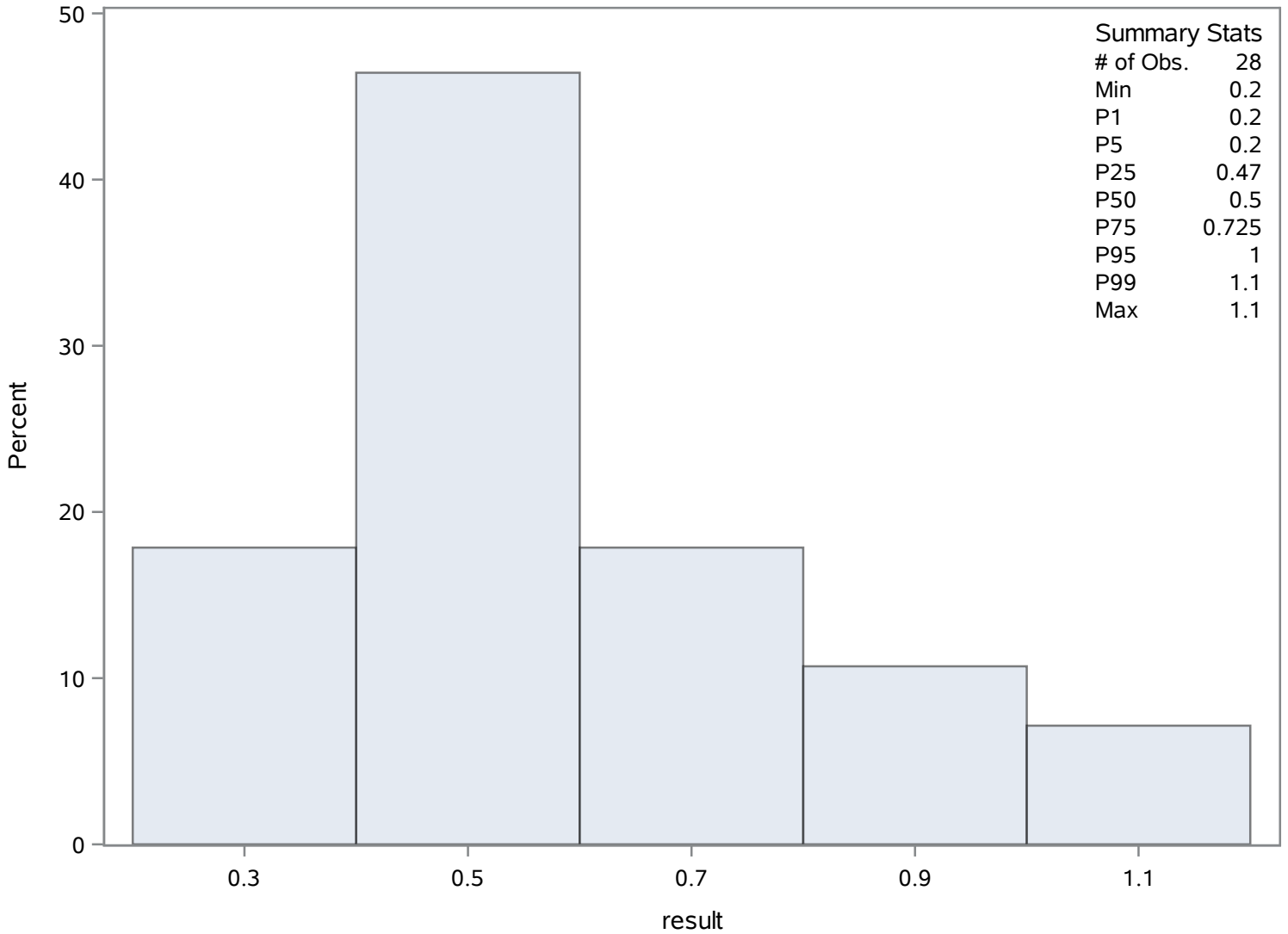
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	13	0.80	14
0.20	11	0.80	16
0.25	26	0.85	18
0.30	27	1.00	21
0.30	17	1.10	9

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	6.11071429	Sum Observations	171.1
Std Deviation	1.89389649	Variance	3.58684392
Skewness	0.43206619	Kurtosis	-0.6558262
Uncorrected SS	1142.388	Corrected SS	96.8447857
Coeff Variation	30.993046	Std Error Mean	0.35791279

Basic Statistical Measures			
Location		Variability	
Mean	6.110714	Std Deviation	1.89390
Median	5.670000	Variance	3.58684
Mode	4.110000	Range	6.99000
		Interquartile Range	2.67000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.07319	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.030
99%	10.030
95%	9.320
90%	9.150
75% Q3	7.475
50% Median	5.670
25% Q1	4.805
10%	4.110
5%	3.070

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

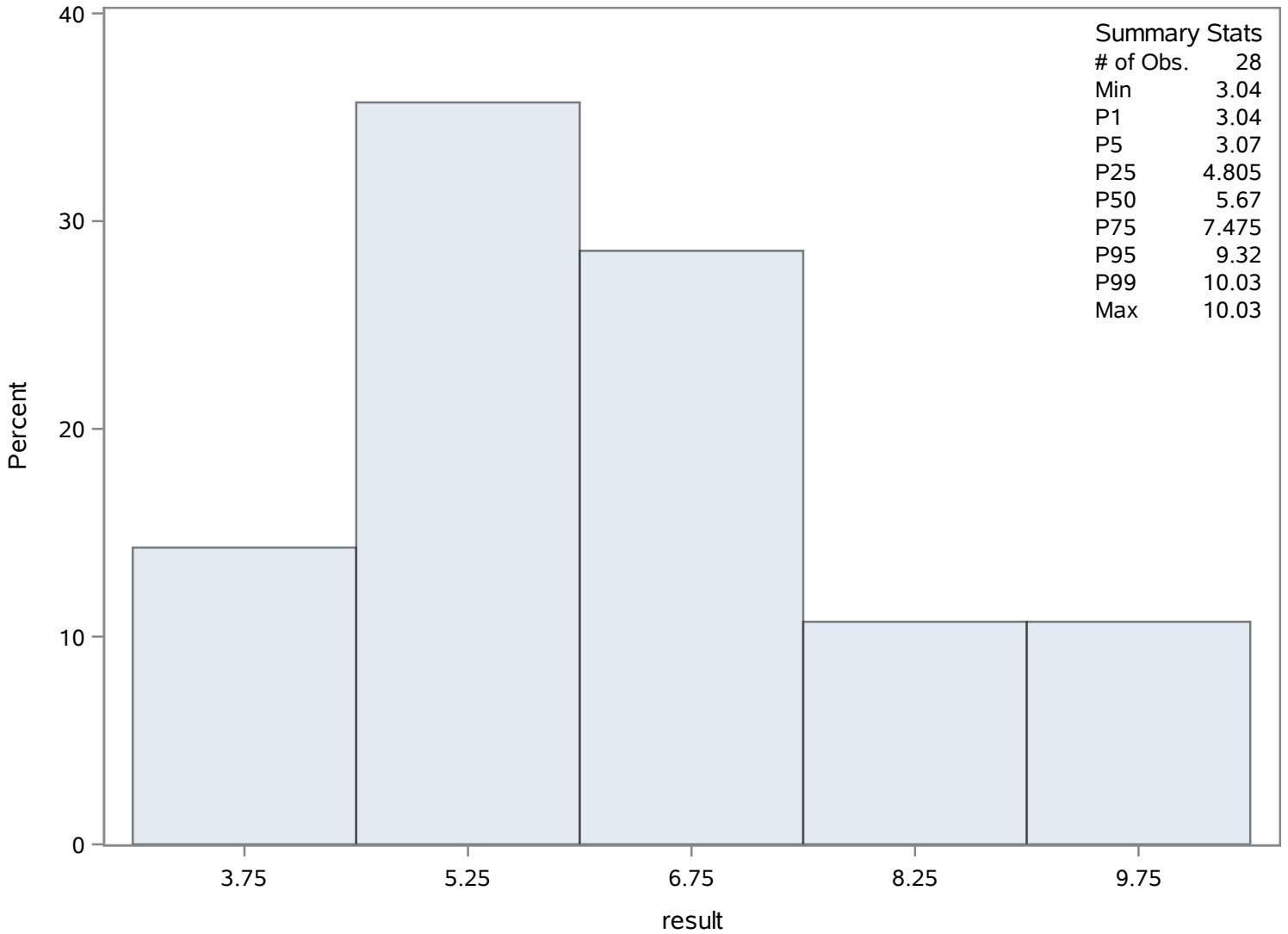
Quantiles (Definition 5)	
Level	Quantile
1%	3.040
0% Min	3.040

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.04	38	8.18	54
3.07	31	8.78	45
4.11	56	9.15	46
4.11	55	9.32	37
4.51	49	10.03	36

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	3.34714286	Sum Observations	93.72
Std Deviation	1.21450144	Variance	1.47501376
Skewness	2.06492636	Kurtosis	5.89135031
Uncorrected SS	353.5196	Corrected SS	39.8253714
Coeff Variation	36.2847209	Std Error Mean	0.2295192

Basic Statistical Measures			
Location		Variability	
Mean	3.347143	Std Deviation	1.21450
Median	3.145000	Variance	1.47501
Mode	3.190000	Range	5.89000
		Interquartile Range	0.73000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.58328	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.800
99%	7.800
95%	5.210
90%	5.200
75% Q3	3.385
50% Median	3.145
25% Q1	2.655
10%	2.060
5%	1.970

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

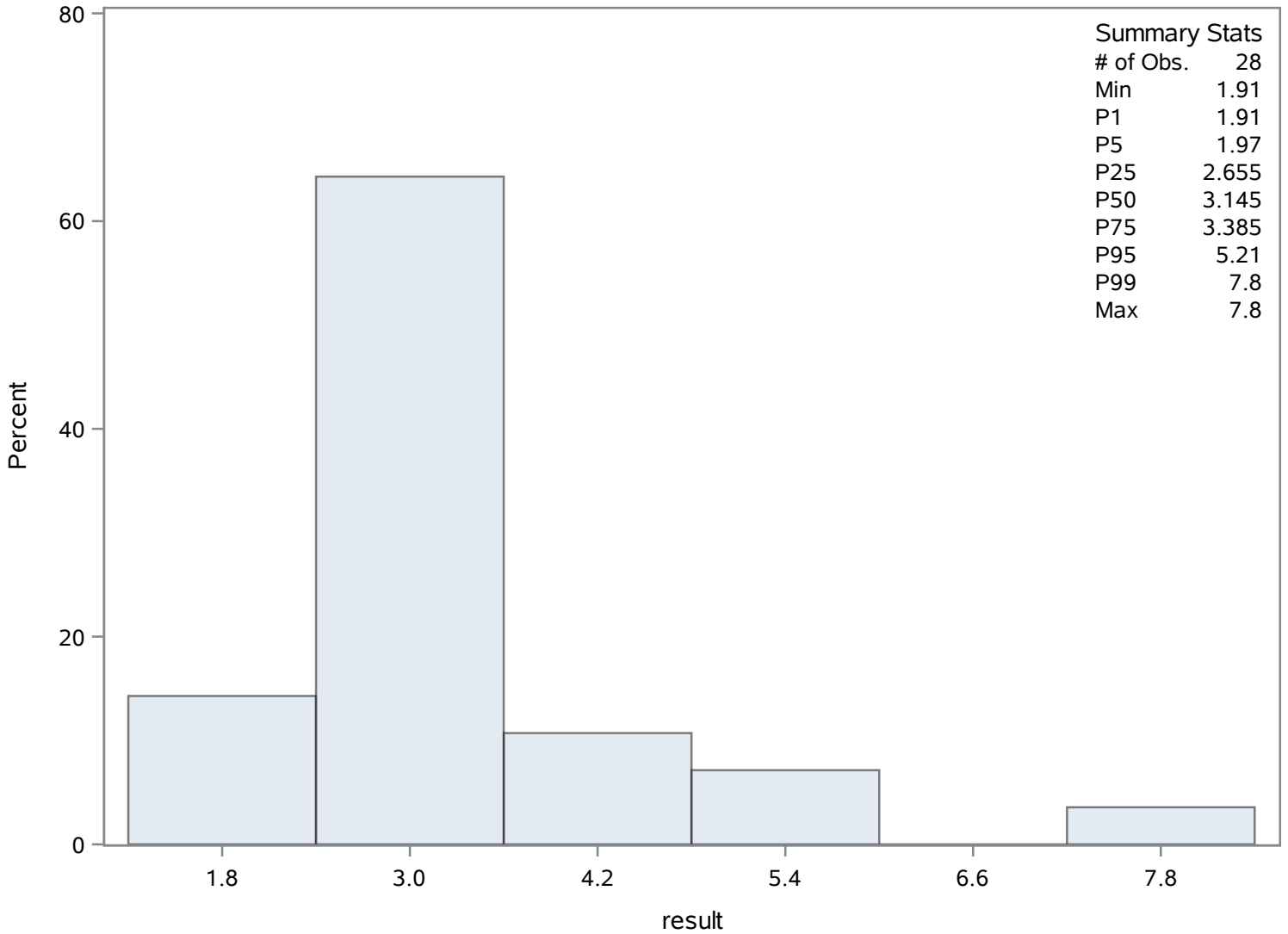
Quantiles (Definition 5)	
Level	Quantile
1%	1.910
0% Min	1.910

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.91	78	4.50	83
1.97	79	4.54	84
2.06	64	5.20	72
2.10	65	5.21	71
2.50	67	7.80	58

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: MFL Monitoring

Chassahowitzka Crawford Creek

Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	5639	Sum Weights	5639
Mean	8171.13779	Sum Observations	46077046
Std Deviation	5349.45072	Variance	28616623
Skewness	1.58645106	Kurtosis	1.56533661
Uncorrected SS	5.37842E11	Corrected SS	1.61341E11
Coeff Variation	65.4676357	Std Error Mean	71.2374137

Basic Statistical Measures			
Location		Variability	
Mean	8171.138	Std Deviation	5349
Median	5735.000	Variance	28616623
Mode	4391.000	Range	27106
		Interquartile Range	4678

Note: The mode displayed is the smallest of 2 modes with a count of 7.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	114.7029	Pr > t 	<.0001
Sign	M	2819.5	Pr >= M 	<.0001
Signed Rank	S	7950990	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	28620
99%	25041
95%	20053
90%	17201
75% Q3	9436
50% Median	5735
25% Q1	4758
10%	4194
5%	3860

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

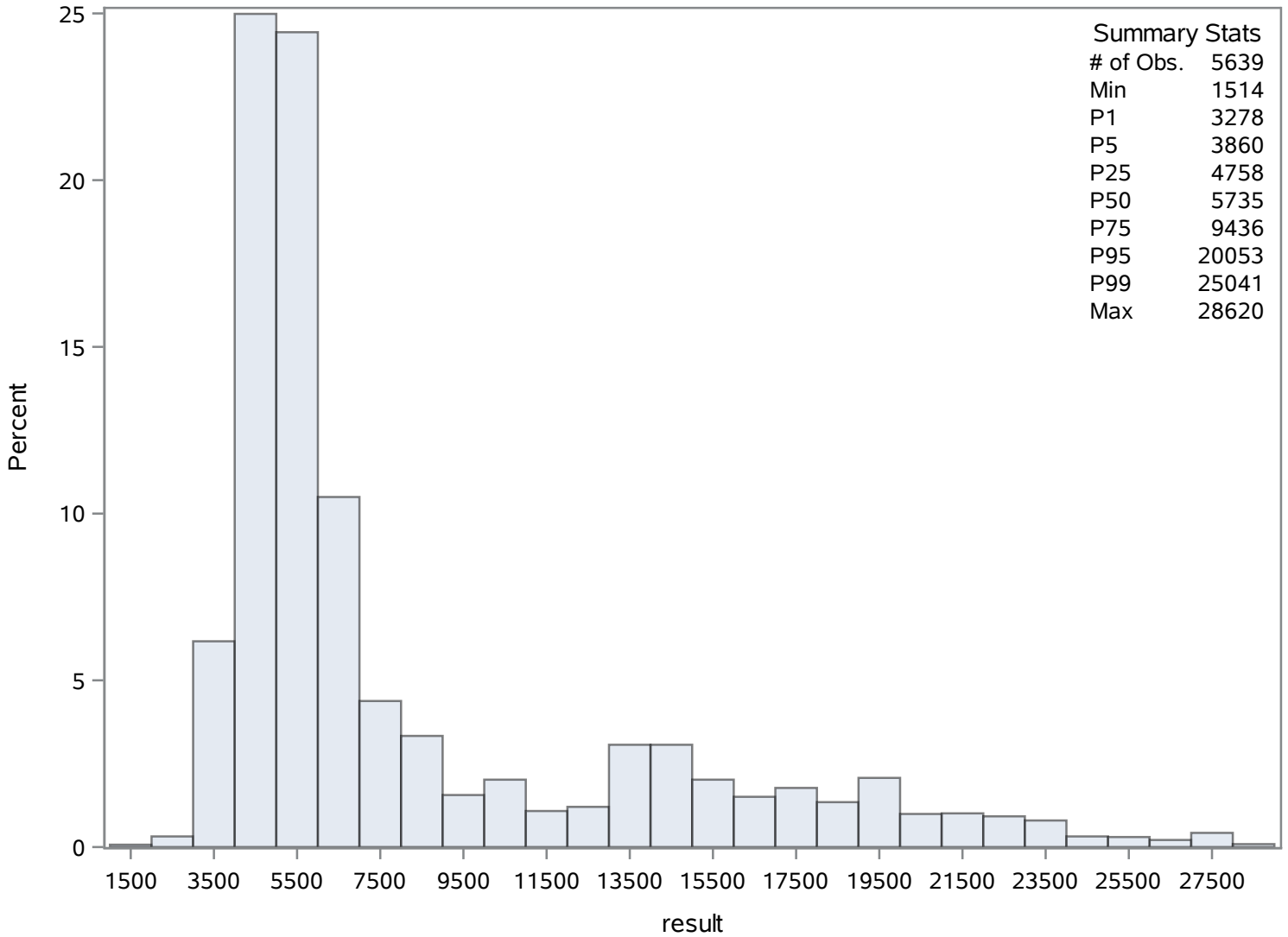
Quantiles (Definition 5)	
Level	Quantile
1%	3278
0% Min	1514

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1514	5185	28052	2665
1736	5326	28350	2661
1855	5324	28445	2664
1912	5325	28578	2662
2039	5211	28620	2663

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	7419	Sum Weights	7419
Mean	21.9979	Sum Observations	163202.42
Std Deviation	2.79248101	Variance	7.79795021
Skewness	0.32061422	Kurtosis	-0.0533469
Uncorrected SS	3647955.71	Corrected SS	57845.1947
Coeff Variation	12.6943073	Std Error Mean	0.03242034

Basic Statistical Measures			
Location		Variability	
Mean	21.99790	Std Deviation	2.79248
Median	21.64000	Variance	7.79795
Mode	23.77000	Range	16.95000
		Interquartile Range	3.87000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	678.5216	Pr > t 	<.0001
Sign	M	3709.5	Pr >= M 	<.0001
Signed Rank	S	13762245	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.66
99%	29.05
95%	26.98
90%	25.73
75% Q3	23.87
50% Median	21.64
25% Q1	20.00
10%	18.71
5%	17.90
1%	15.97
0% Min	13.71

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Temperature (Total) Deg. C

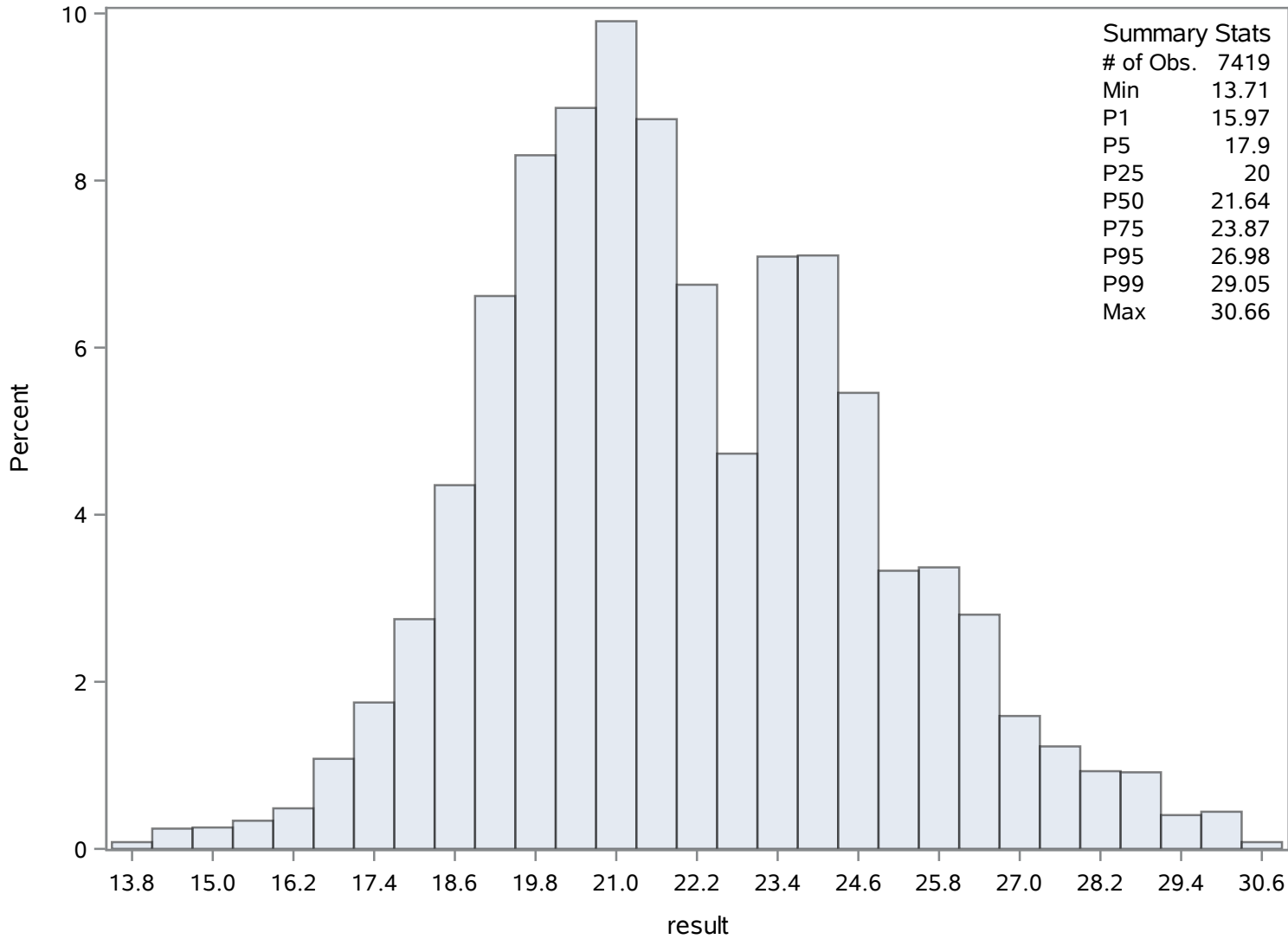
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.71	10319	30.36	6207
13.78	10320	30.46	5886
13.79	10318	30.66	5883
13.91	10317	30.66	5884
14.00	10321	30.66	5885

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	7.40285714	Sum Observations	207.28
Std Deviation	0.22725181	Variance	0.05164339
Skewness	-0.6968552	Kurtosis	0.62701409
Uncorrected SS	1535.8586	Corrected SS	1.39437143
Coeff Variation	3.06978519	Std Error Mean	0.04294656

Basic Statistical Measures			
Location		Variability	
Mean	7.402857	Std Deviation	0.22725
Median	7.450000	Variance	0.05164
Mode	7.450000	Range	0.96000
		Interquartile Range	0.22000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	172.3737	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.81
99%	7.81
95%	7.73
90%	7.72
75% Q3	7.52
50% Median	7.45
25% Q1	7.30
10%	6.97
5%	6.95
1%	6.85
0% Min	6.85

Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
pH (Total) SU

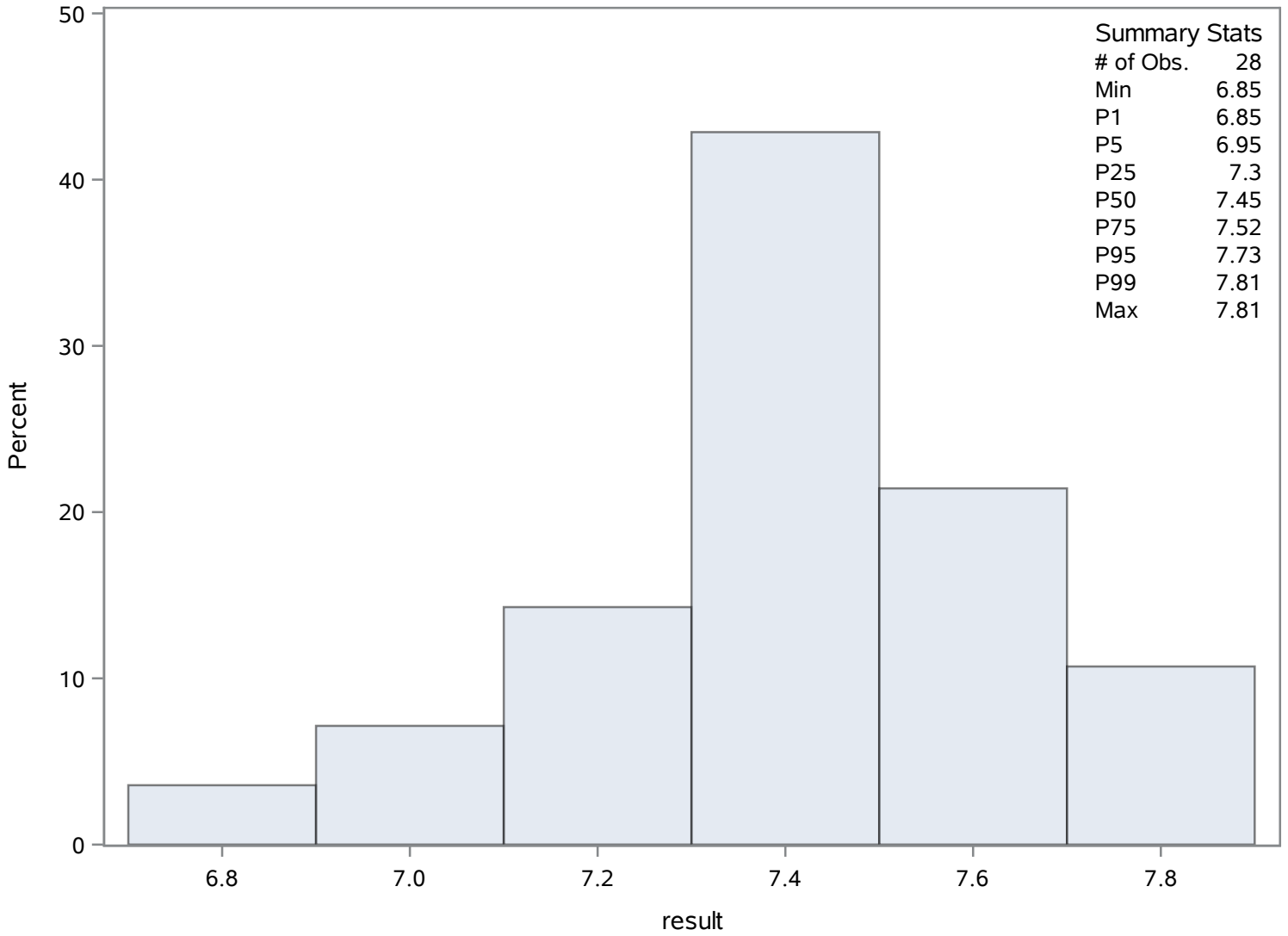
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.85	13150	7.61	13159
6.95	13151	7.61	13160
6.97	13149	7.72	13166
7.19	13145	7.73	13167
7.20	13148	7.81	13168

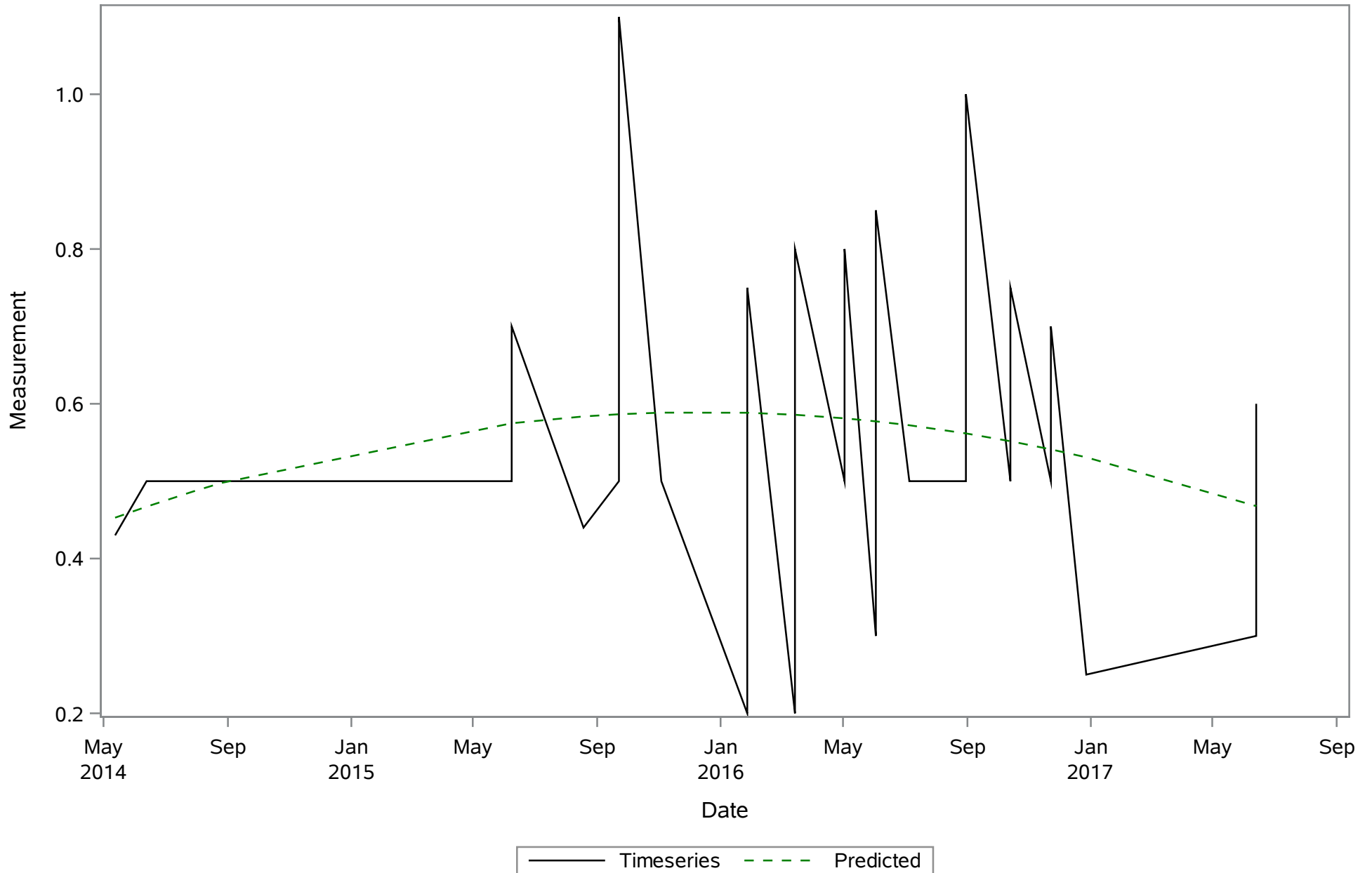
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
pH (Total) SU

The UNIVARIATE Procedure

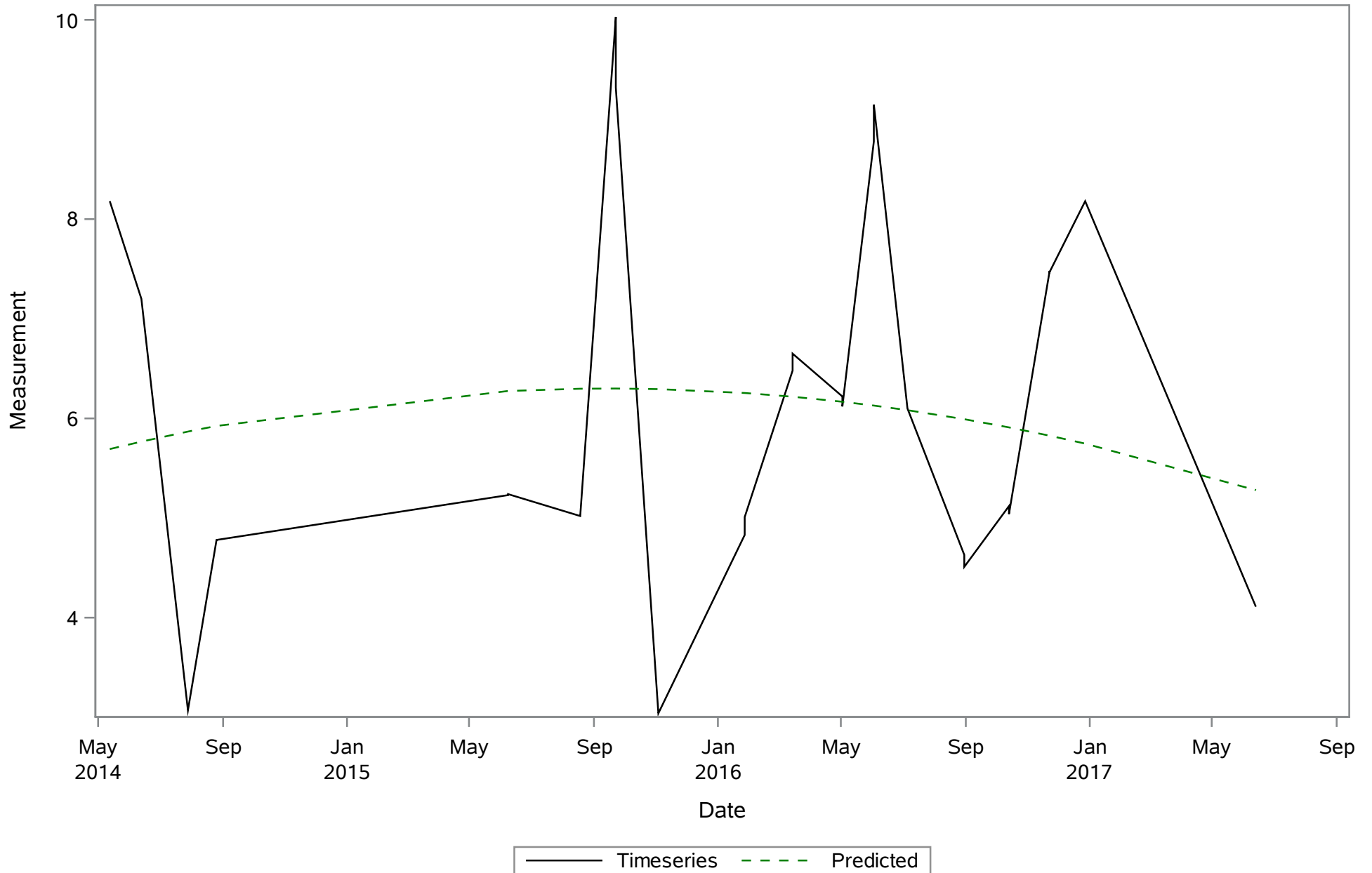
Distribution of result



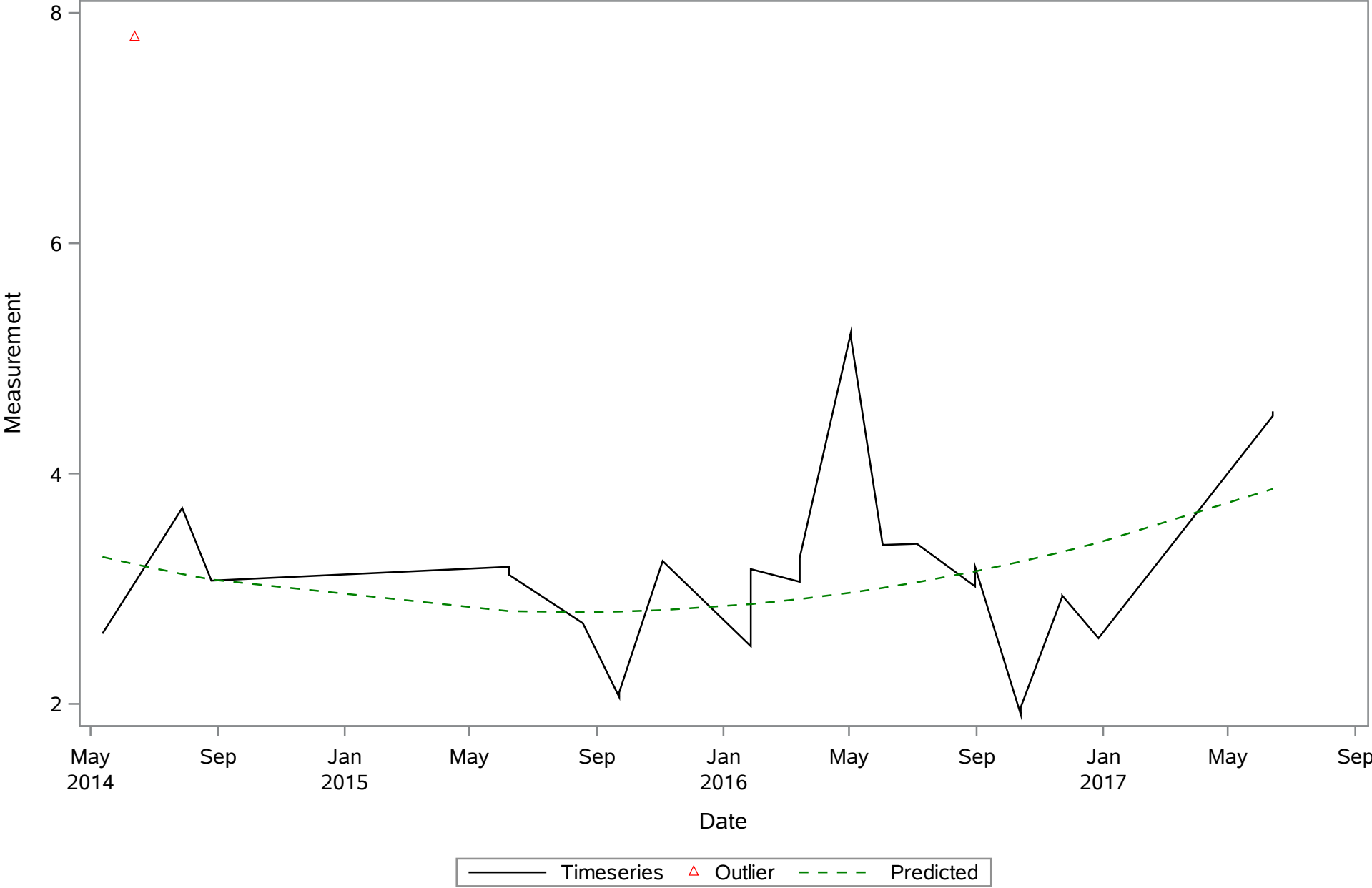
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Depth (Total) Meters



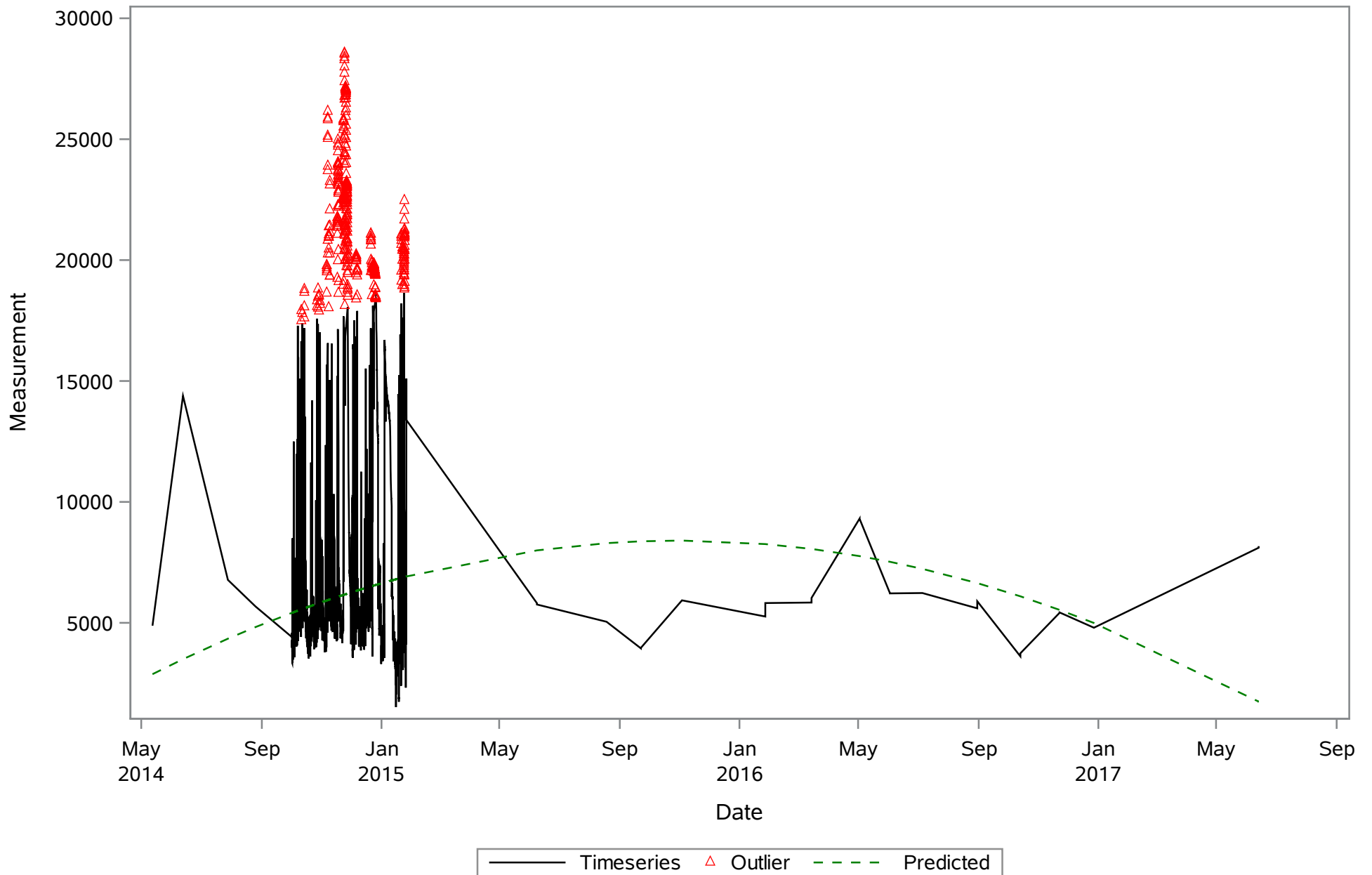
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Dissolved Oxygen (Total) mg/L



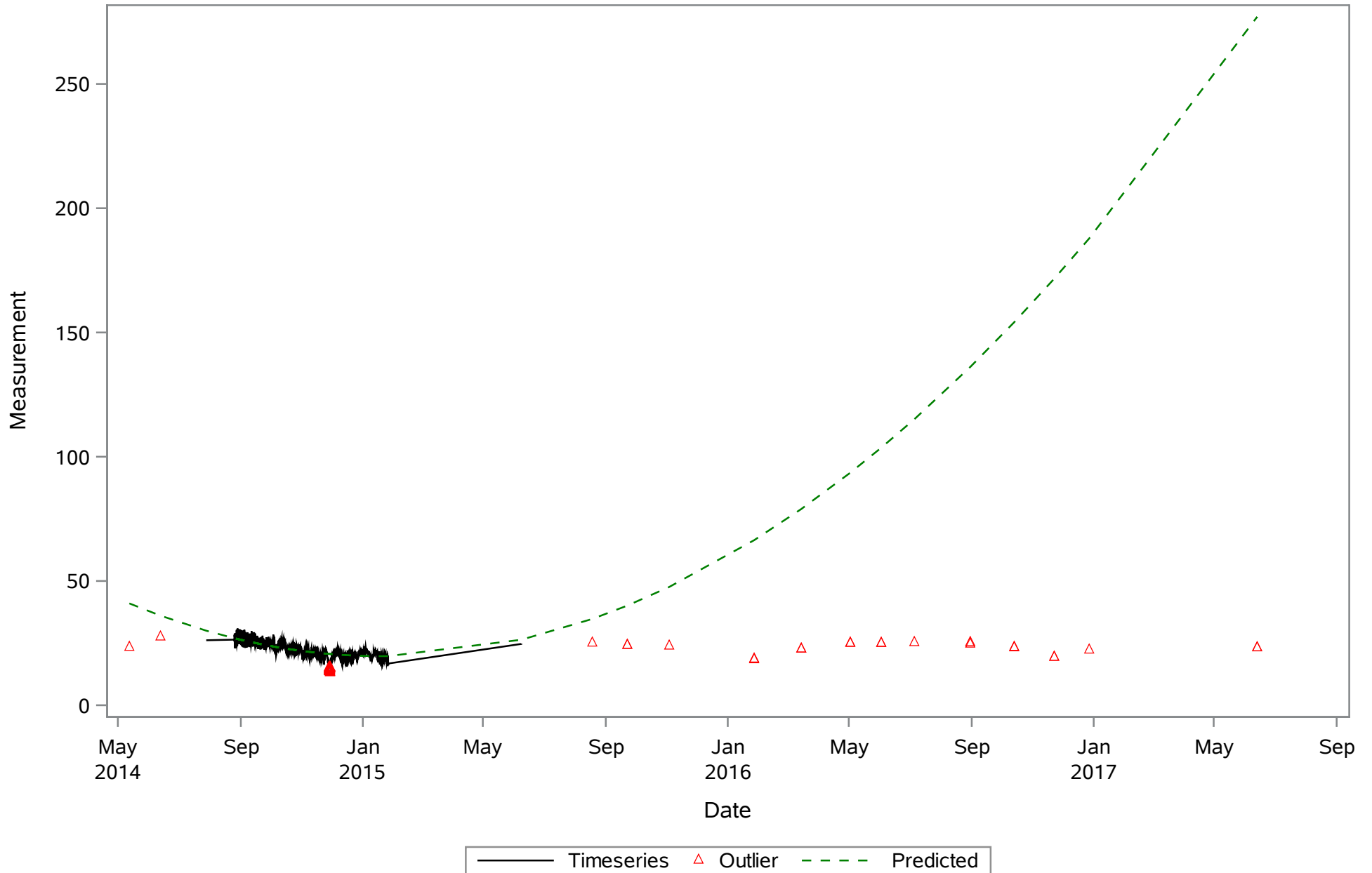
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Salinity (Total) ppt



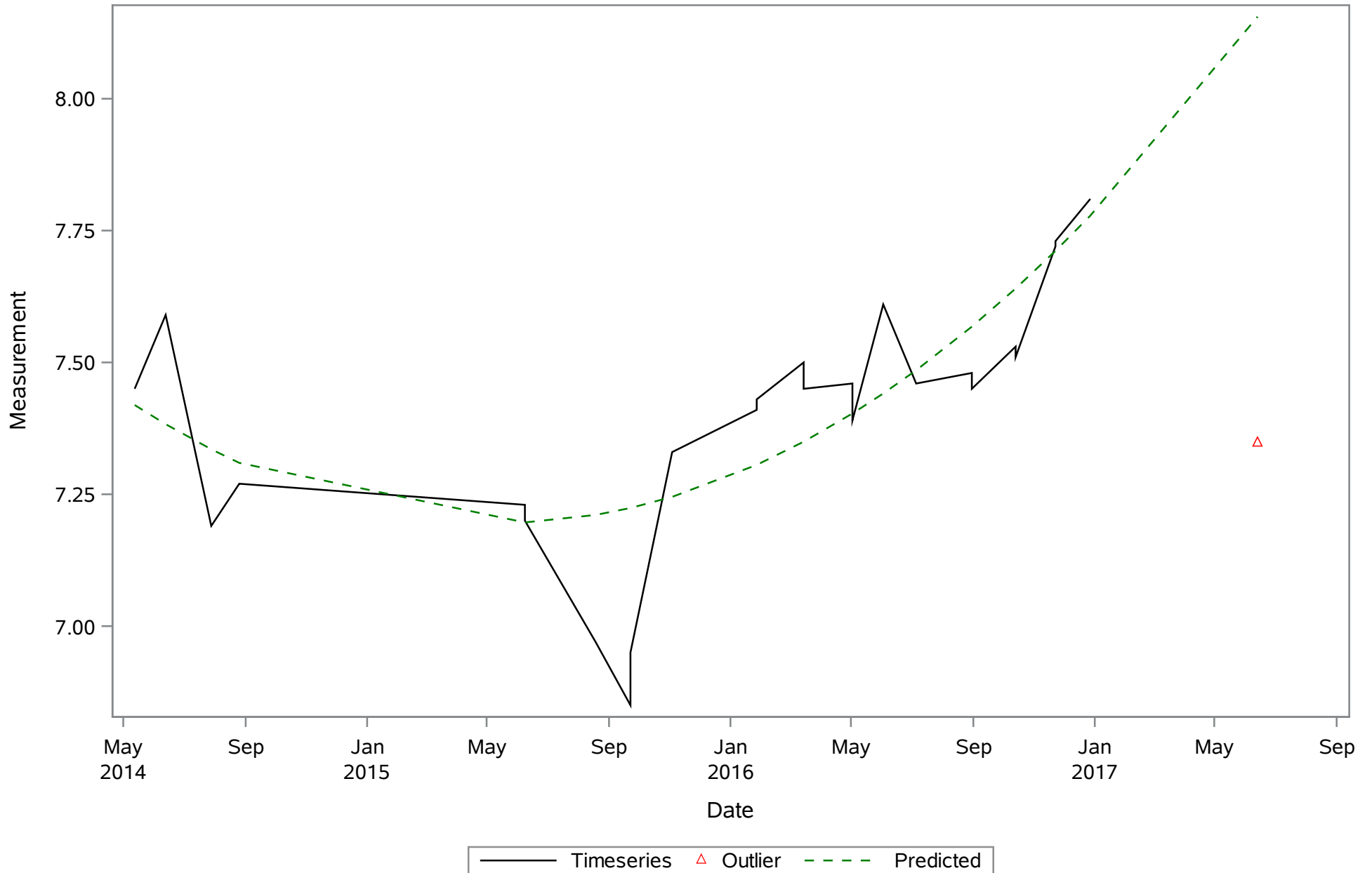
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Specific Conductance (Total) uS/cm



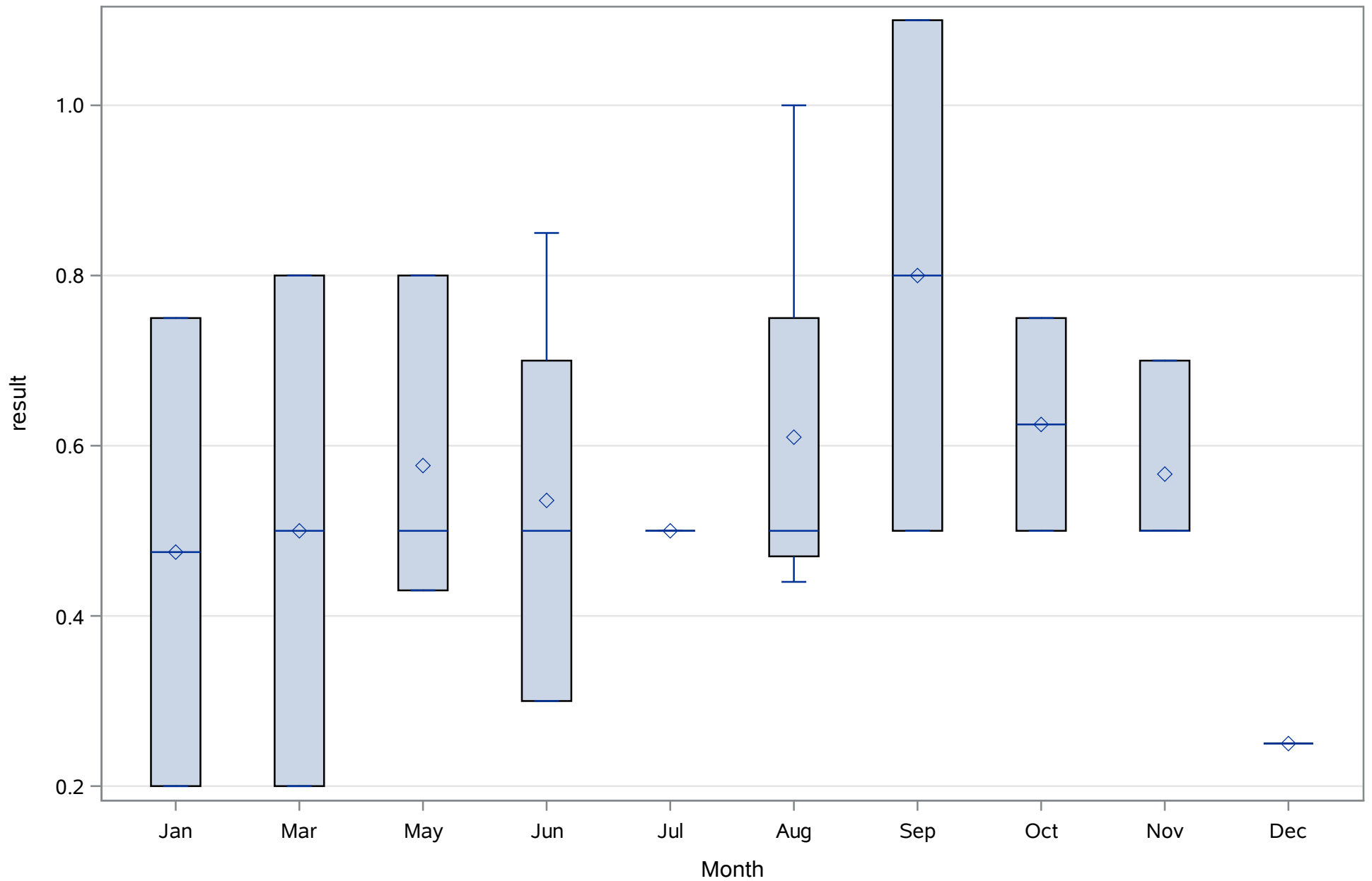
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Temperature (Total) Deg. C



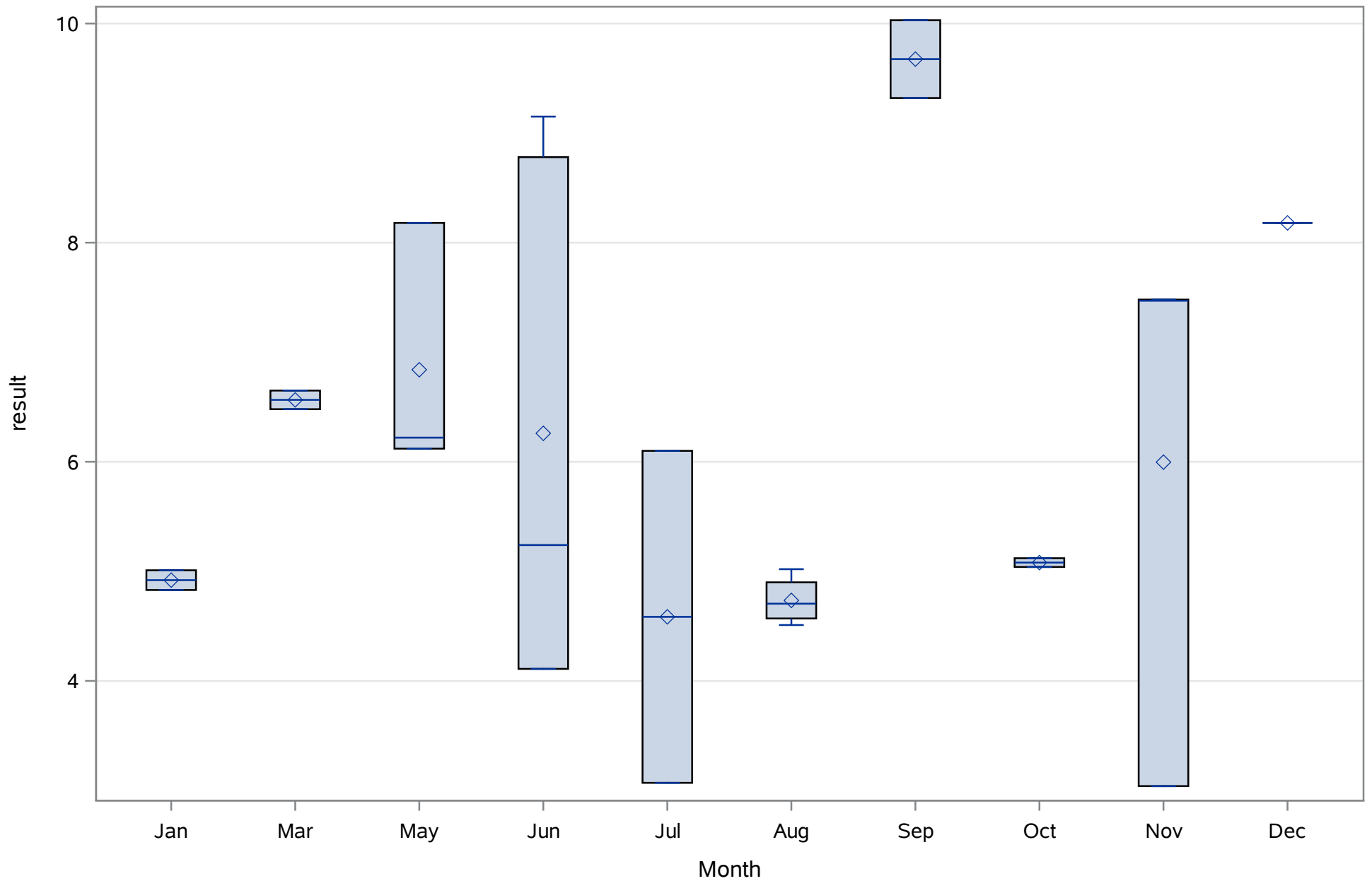
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
pH (Total) SU



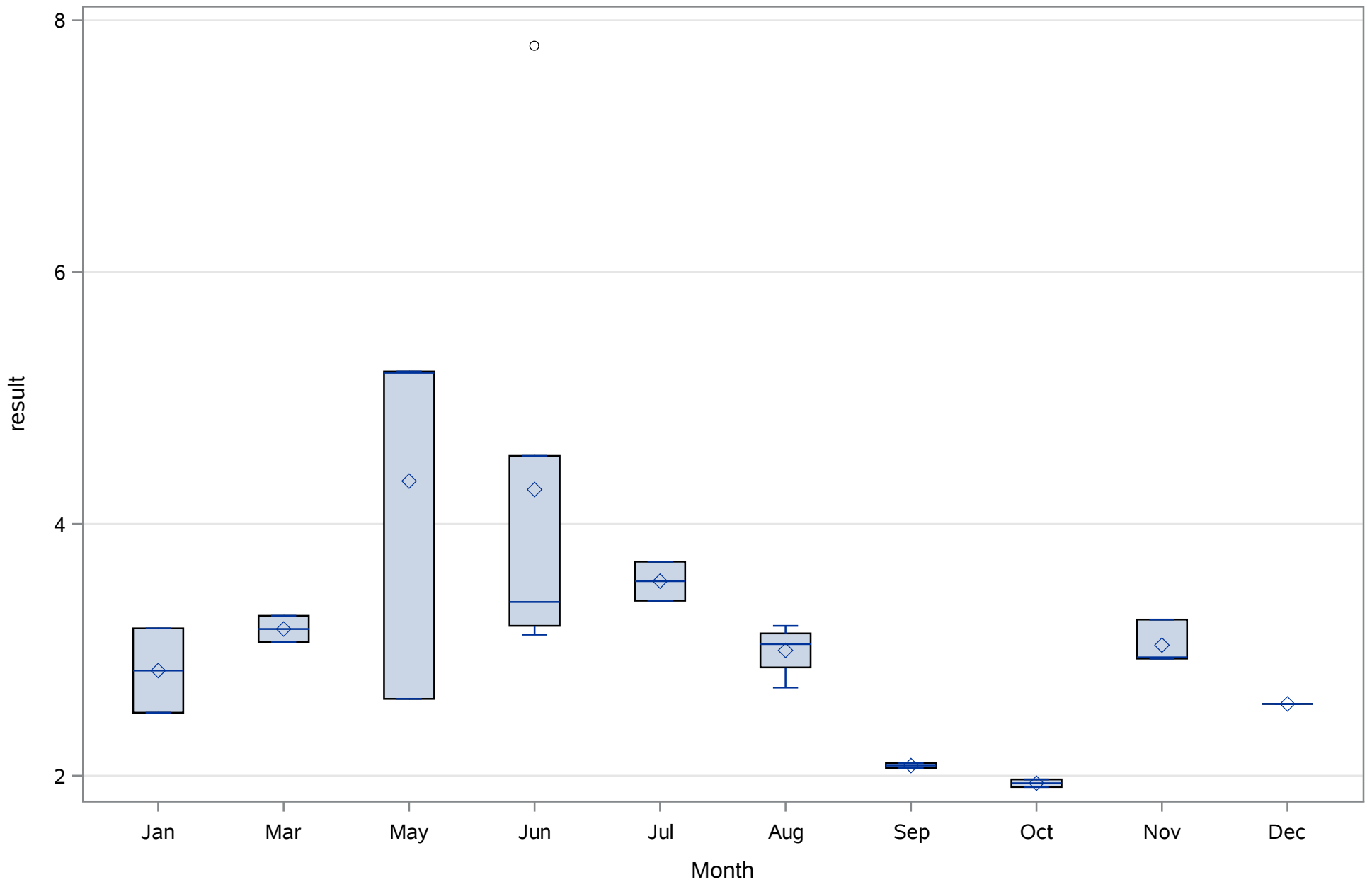
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Depth (Total) Meters



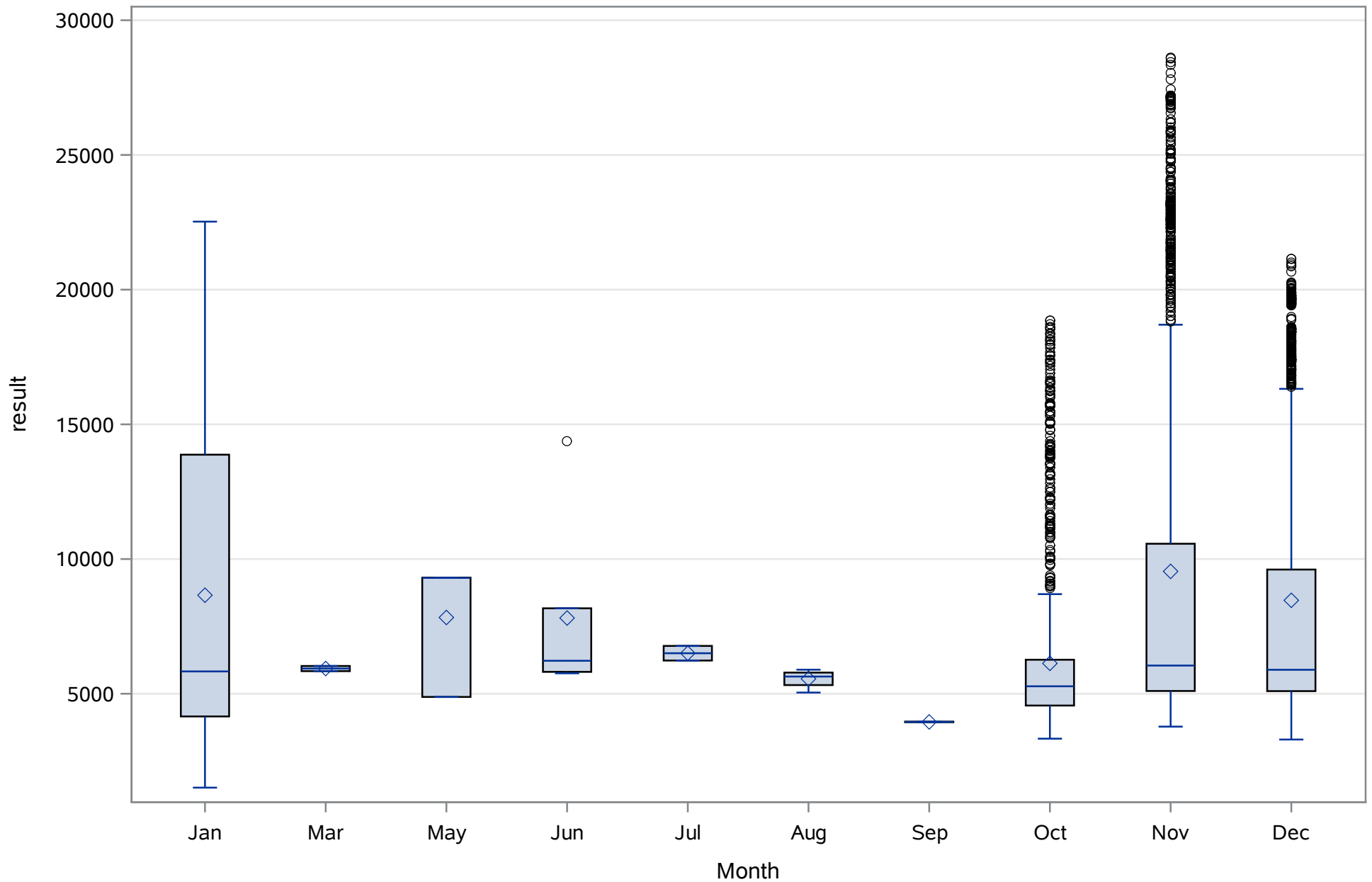
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Dissolved Oxygen (Total) mg/L



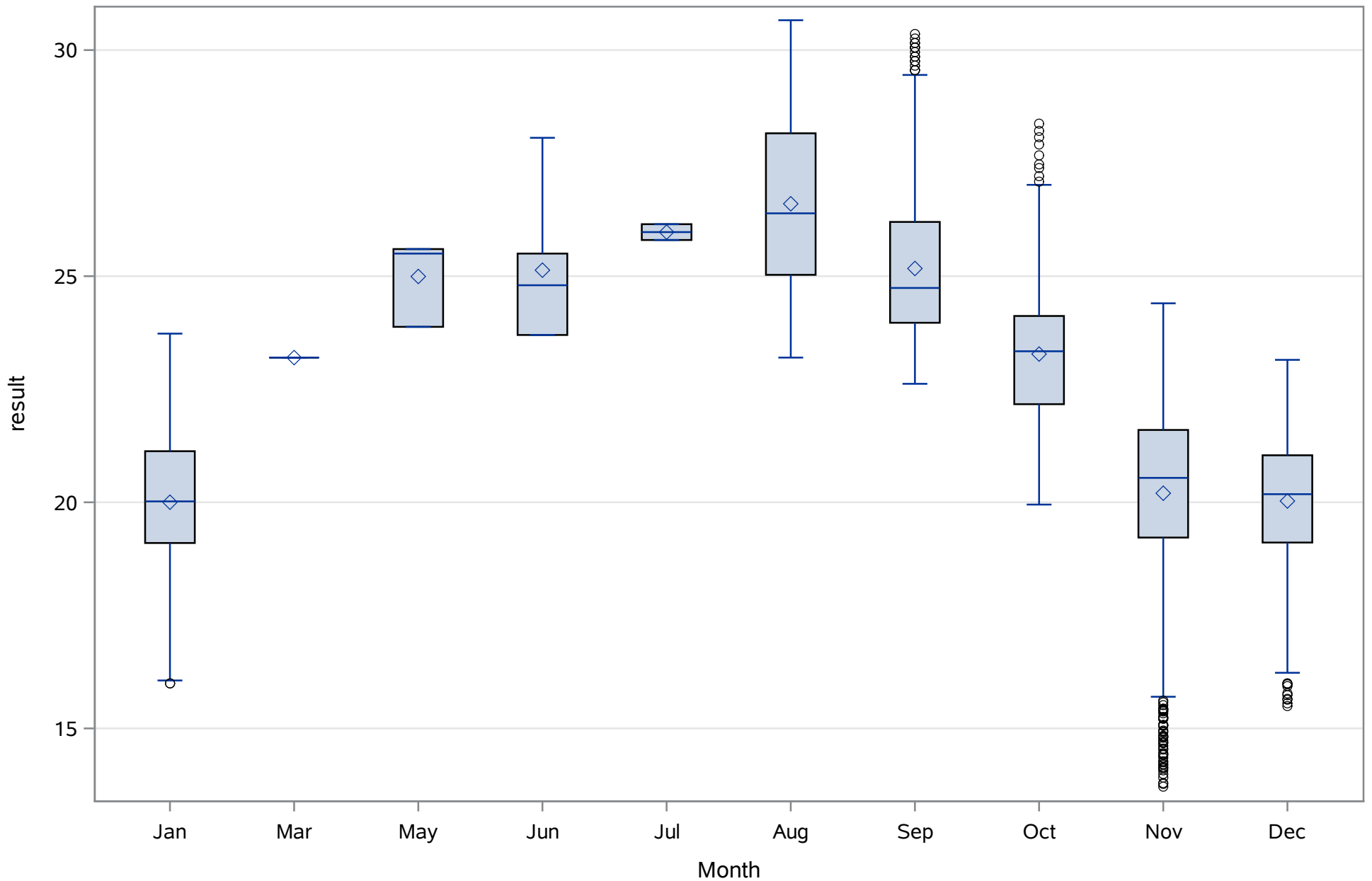
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Salinity (Total) ppt



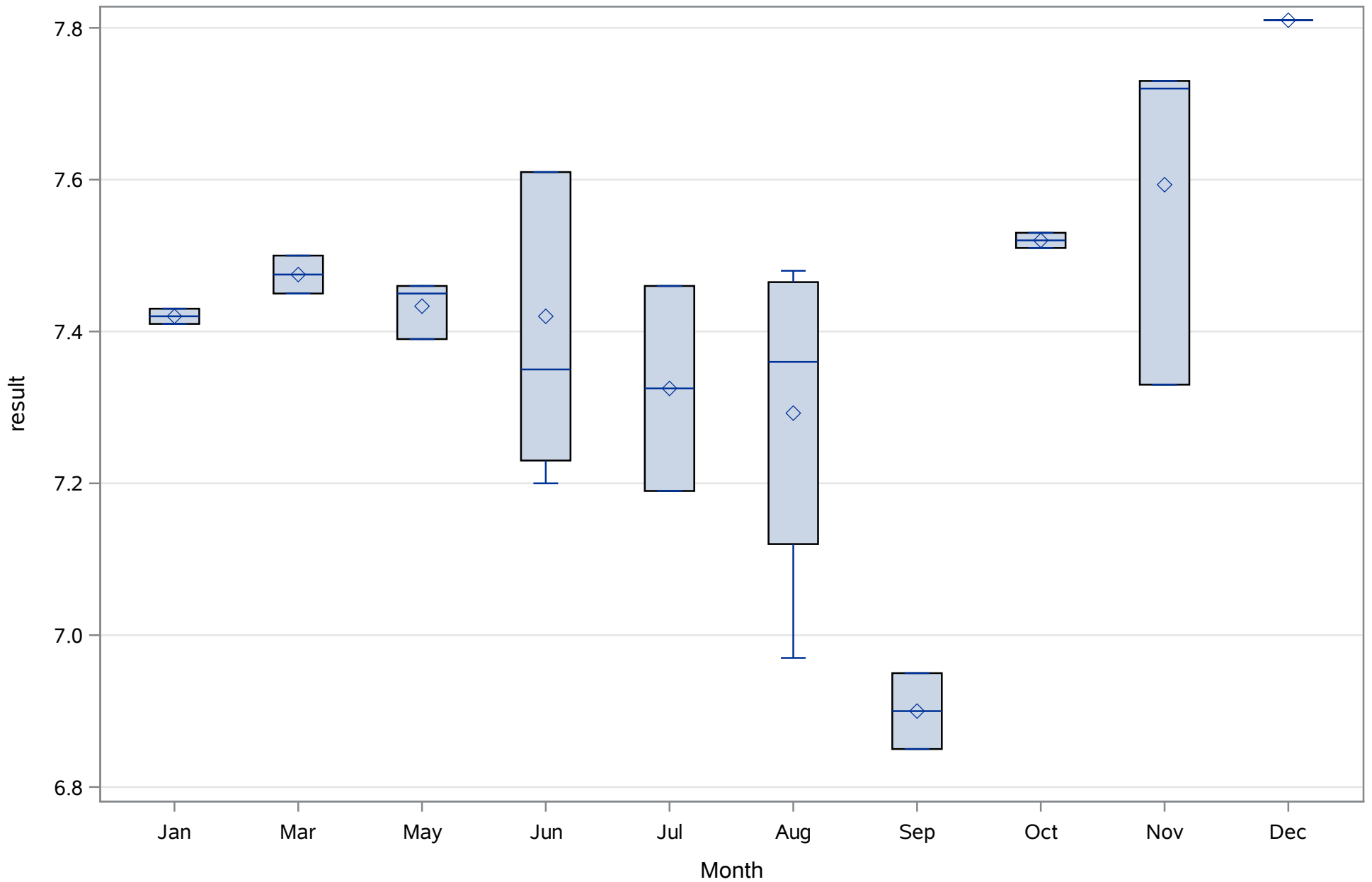
Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Specific Conductance (Total) uS/cm



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: MFL Monitoring
Chassahowitzka Crawford Creek
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near Mouth

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Biological Oxygen Demand (Total)	mg/L	NOV2016	JUL2017	11	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Depth (Total)	Meters	NOV2016	JUL2017	19	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	NOV2016	JUL2017	12	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	NOV2016	JUL2017	19	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	NOV2016	JUL2017	11	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	8.3%
Residues- Volatile (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Salinity (Total)	ppth	NOV2016	JUL2017	19	0.0%	0.0%	0.0%
Secchi-vertical (Total)	Meters	NOV2016	JUL2017	12	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	NOV2016	JUL2017	19	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	NOV2016	JUL2017	19	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
pH (Total)	SU	NOV2016	JUL2017	19	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Biological Oxygen Demand (Total)	mg/L	NOV2016	JUL2017	11	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Depth (Total)	Meters	NOV2016	JUL2017	21	0.0%	0.0%	0.0%
Depth, bottom (Total)	Meters	NOV2016	JUL2017	12	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	NOV2016	JUL2017	21	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	NOV2016	JUL2017	11	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Residues- Volatile (Total)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Salinity (Total)	ppth	NOV2016	JUL2017	21	9.5%	0.0%	0.0%
Secchi-vertical (Total)	Meters	NOV2016	JUL2017	12	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	NOV2016	JUL2017	21	9.5%	0.0%	0.0%
Temperature (Total)	Deg. C	NOV2016	JUL2017	21	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	SEP2016	JUL2017	12	0.0%	0.0%	0.0%
pH (Total)	SU	NOV2016	JUL2017	21	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station

Source: CR Grab

Chassahowitzka River Near USGS Gauge

Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	0.77428571	Sum Observations	16.26
Std Deviation	0.37280788	Variance	0.13898571
Skewness	0.76935252	Kurtosis	-0.8257957
Uncorrected SS	15.3696	Corrected SS	2.77971429
Coeff Variation	48.148619	Std Error Mean	0.08135335

Basic Statistical Measures			
Location		Variability	
Mean	0.774286	Std Deviation	0.37281
Median	0.500000	Variance	0.13899
Mode	0.500000	Range	1.16000
		Interquartile Range	0.58000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.517564	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.52
99%	1.52
95%	1.49
90%	1.25
75% Q3	1.08
50% Median	0.50
25% Q1	0.50
10%	0.50
5%	0.45
1%	0.36
0% Min	0.36

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Depth (Total) Meters

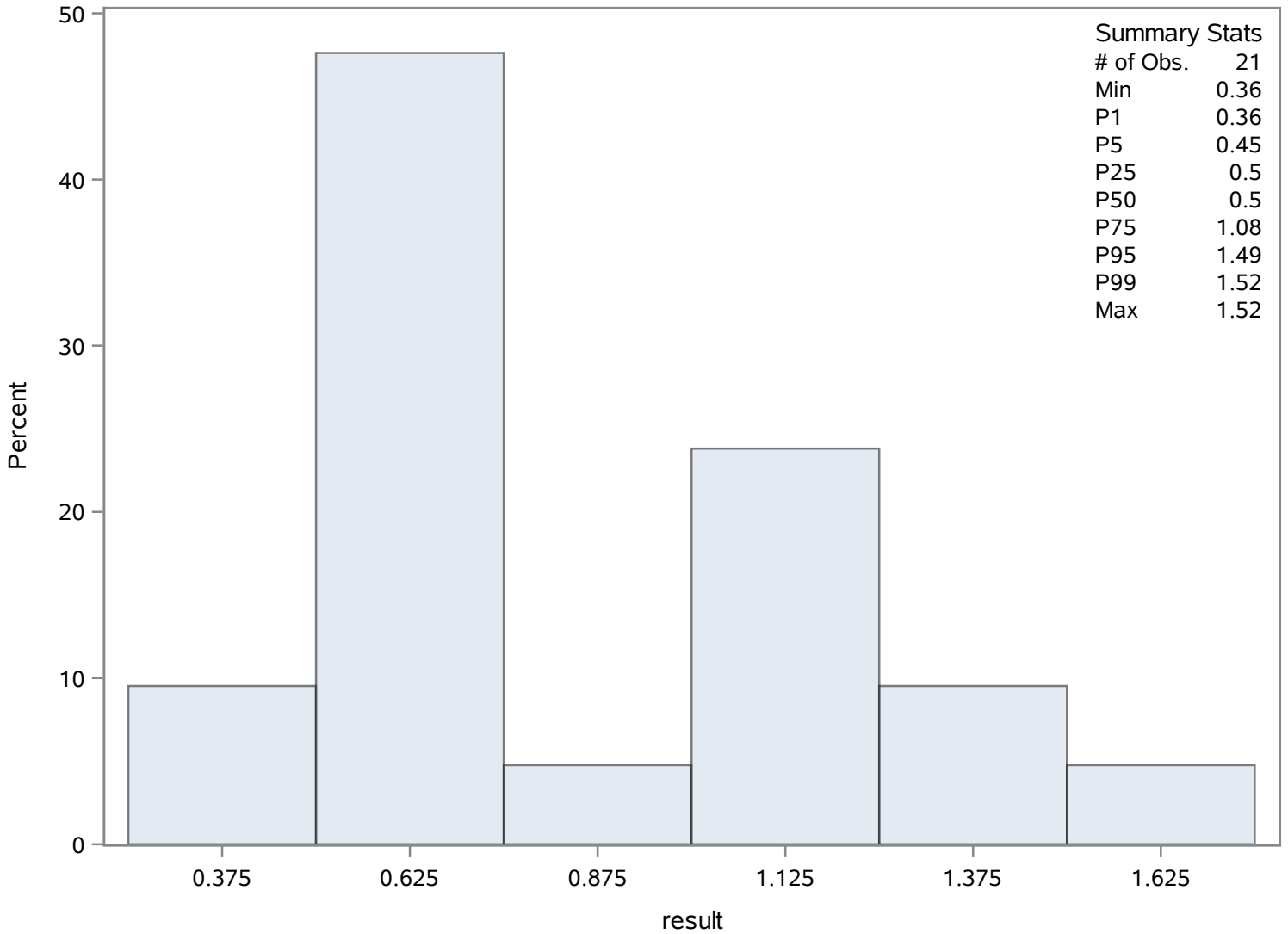
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.36	7	1.10	17
0.45	5	1.16	19
0.50	20	1.25	15
0.50	18	1.49	9
0.50	16	1.52	13

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	6.23428571	Sum Observations	130.92
Std Deviation	1.69298426	Variance	2.86619571
Skewness	0.45519611	Kurtosis	-0.9711575
Uncorrected SS	873.5166	Corrected SS	57.3239143
Coeff Variation	27.1560262	Std Error Mean	0.36943945

Basic Statistical Measures			
Location		Variability	
Mean	6.234286	Std Deviation	1.69298
Median	6.600000	Variance	2.86620
Mode	.	Range	5.31000
		Interquartile Range	2.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.87499	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.45
99%	9.45
95%	9.07
90%	8.86
75% Q3	7.33
50% Median	6.60
25% Q1	4.83
10%	4.33
5%	4.27
1%	4.14
0% Min	4.14

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Dissolved Oxygen (Total) mg/L

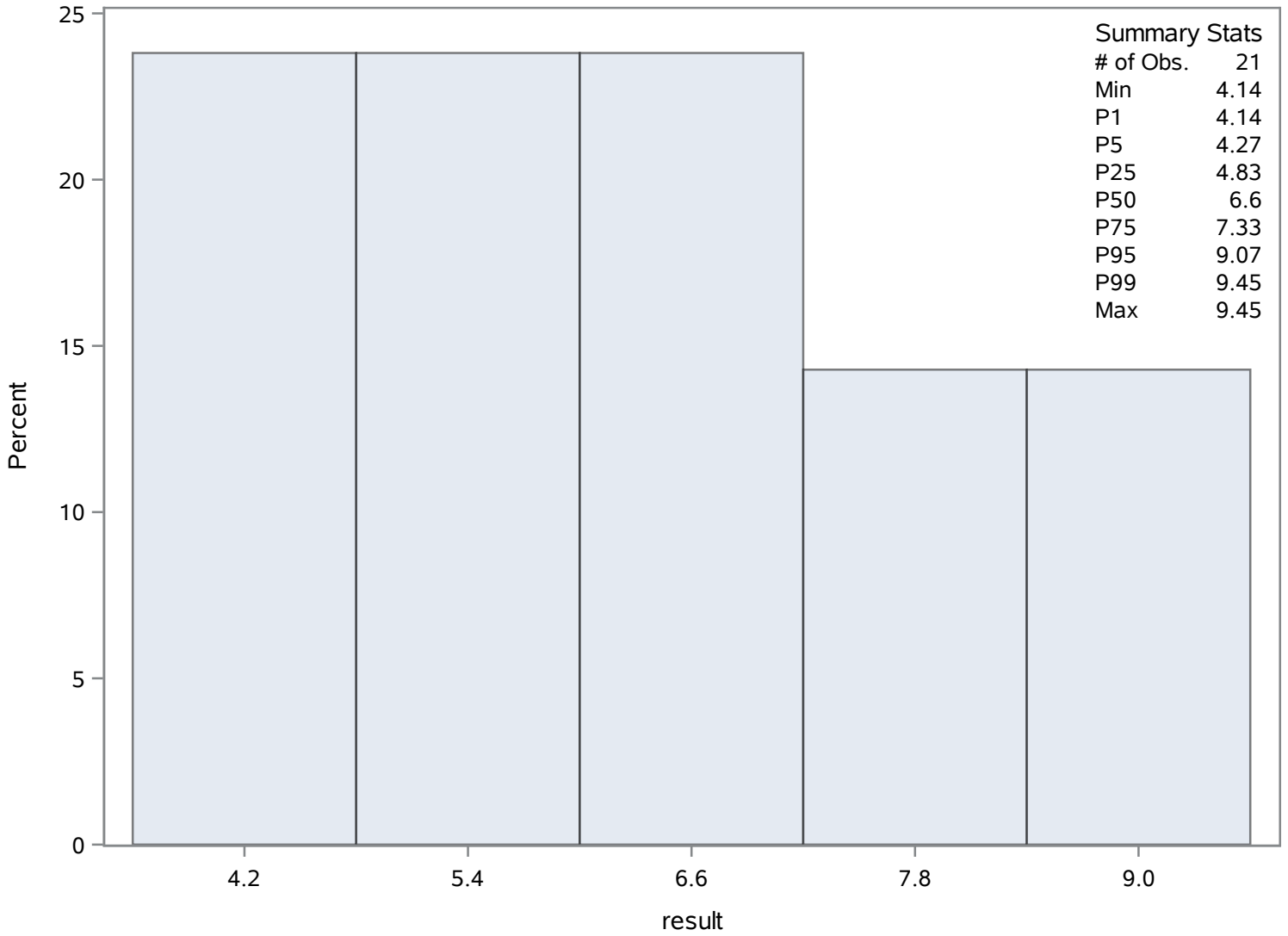
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.14	35	7.44	39
4.27	36	7.92	30
4.33	38	8.86	29
4.40	41	9.07	26
4.56	34	9.45	27

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	5.33	Sum Observations	111.93
Std Deviation	2.4115721	Variance	5.81568
Skewness	1.61855601	Kurtosis	2.59943652
Uncorrected SS	712.9005	Corrected SS	116.3136
Coeff Variation	45.2452552	Std Error Mean	0.52624818

Basic Statistical Measures			
Location		Variability	
Mean	5.330000	Std Deviation	2.41157
Median	4.630000	Variance	5.81568
Mode	.	Range	9.21000
		Interquartile Range	2.33000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.1283	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.11
99%	12.11
95%	10.61
90%	7.39
75% Q3	6.09
50% Median	4.63
25% Q1	3.76
10%	3.10
5%	3.03
1%	2.90
0% Min	2.90

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Salinity (Total) ppt

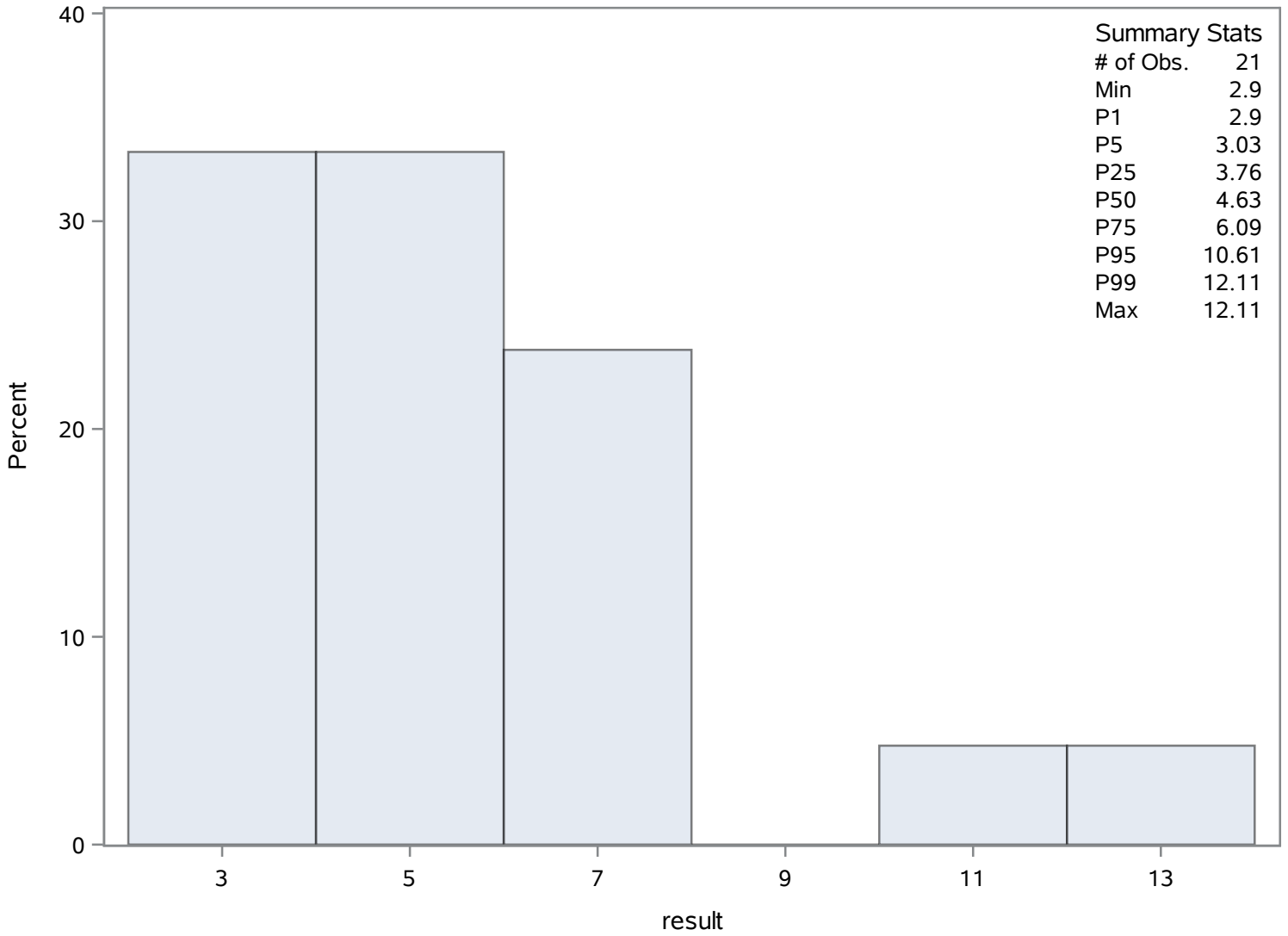
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.90	44	6.27	59
3.03	47	7.20	57
3.10	49	7.39	63
3.17	48	10.61	54
3.45	45	12.11	55

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	9708.04762	Sum Observations	203869
Std Deviation	4117.33531	Variance	16952450
Skewness	1.2547757	Kurtosis	1.11251884
Uncorrected SS	2318218961	Corrected SS	339049001
Coeff Variation	42.4115689	Std Error Mean	898.476225

Basic Statistical Measures			
Location		Variability	
Mean	9708.048	Std Deviation	4117
Median	8300.000	Variance	16952450
Mode	.	Range	14894
		Interquartile Range	4340

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.80501	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	20283
99%	20283
95%	17984
90%	15151
75% Q3	11190
50% Median	8300
25% Q1	6850
10%	5692
5%	5559
1%	5389
0% Min	5389

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Specific Conductance (Total) uS/cm

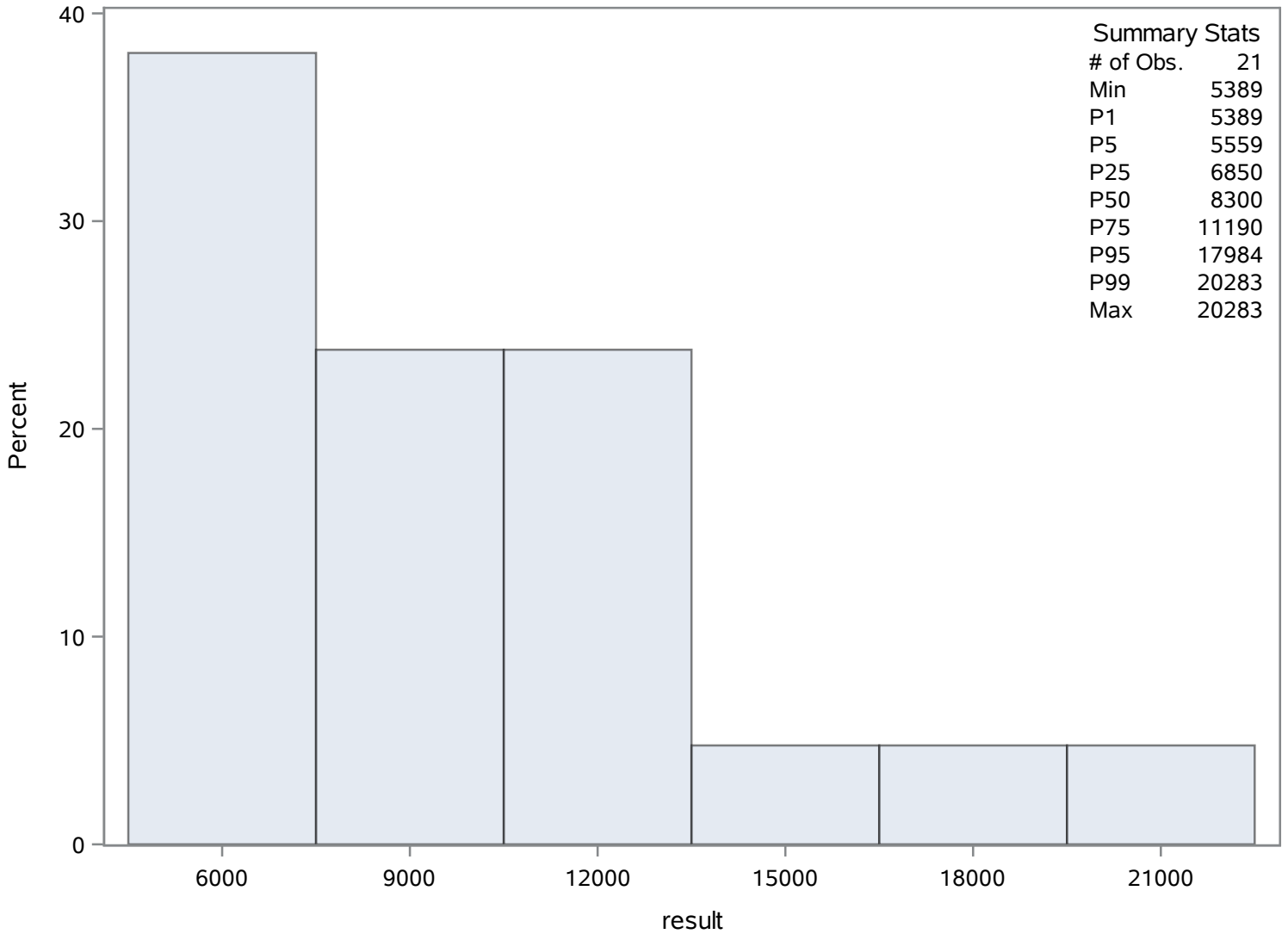
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5389	65	12507	78
5559	68	12769	84
5692	70	15151	82
5828	69	17984	75
6326	66	20283	76

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	23.1857143	Sum Observations	486.9
Std Deviation	3.3721337	Variance	11.3712857
Skewness	-0.0741408	Kurtosis	-0.9062664
Uncorrected SS	11516.55	Corrected SS	227.425714
Coeff Variation	14.5440147	Std Error Mean	0.7358599

Basic Statistical Measures			
Location		Variability	
Mean	23.18571	Std Deviation	3.37213
Median	22.80000	Variance	11.37129
Mode	22.80000	Range	11.10000
		Interquartile Range	4.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	31.50833	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	28.6
99%	28.6
95%	28.0
90%	27.5
75% Q3	26.3
50% Median	22.8
25% Q1	21.8
10%	18.5
5%	17.6
1%	17.5
0% Min	17.5

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Temperature (Total) Deg. C

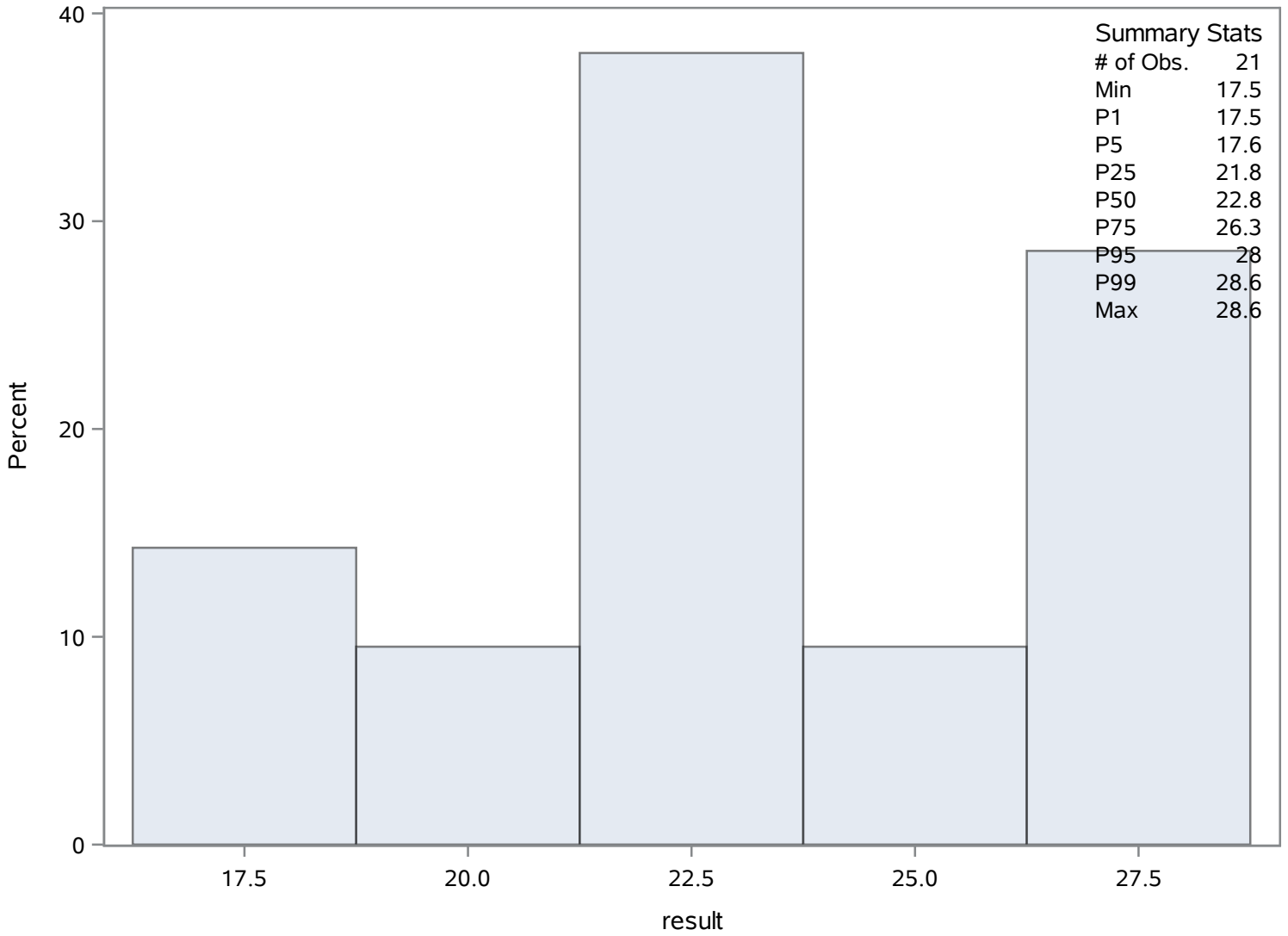
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17.5	89	26.4	100
17.6	90	27.2	103
18.5	91	27.5	102
19.8	95	28.0	104
19.9	94	28.6	105

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	7.66714286	Sum Observations	161.01
Std Deviation	0.16634731	Variance	0.02767143
Skewness	0.53288799	Kurtosis	0.22903856
Uncorrected SS	1235.0401	Corrected SS	0.55342857
Coeff Variation	2.1696128	Std Error Mean	0.03629996

Basic Statistical Measures			
Location		Variability	
Mean	7.667143	Std Deviation	0.16635
Median	7.640000	Variance	0.02767
Mode	7.570000	Range	0.67000
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	211.2163	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.07
99%	8.07
95%	7.90
90%	7.87
75% Q3	7.76
50% Median	7.64
25% Q1	7.56
10%	7.45
5%	7.44
1%	7.40
0% Min	7.40

Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
pH (Total) SU

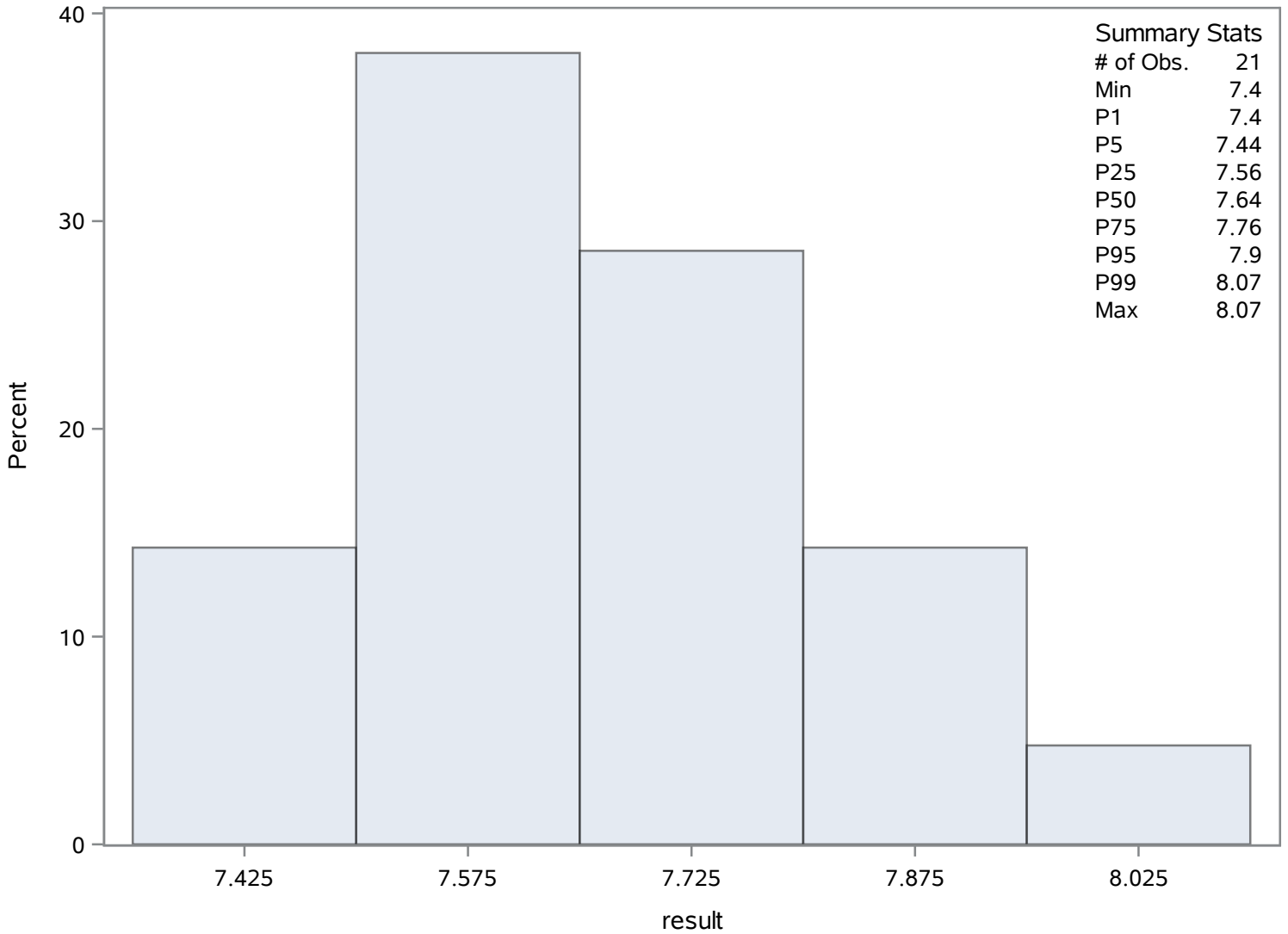
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.40	122	7.79	108
7.44	120	7.80	114
7.45	119	7.87	110
7.55	107	7.90	111
7.56	125	8.07	113

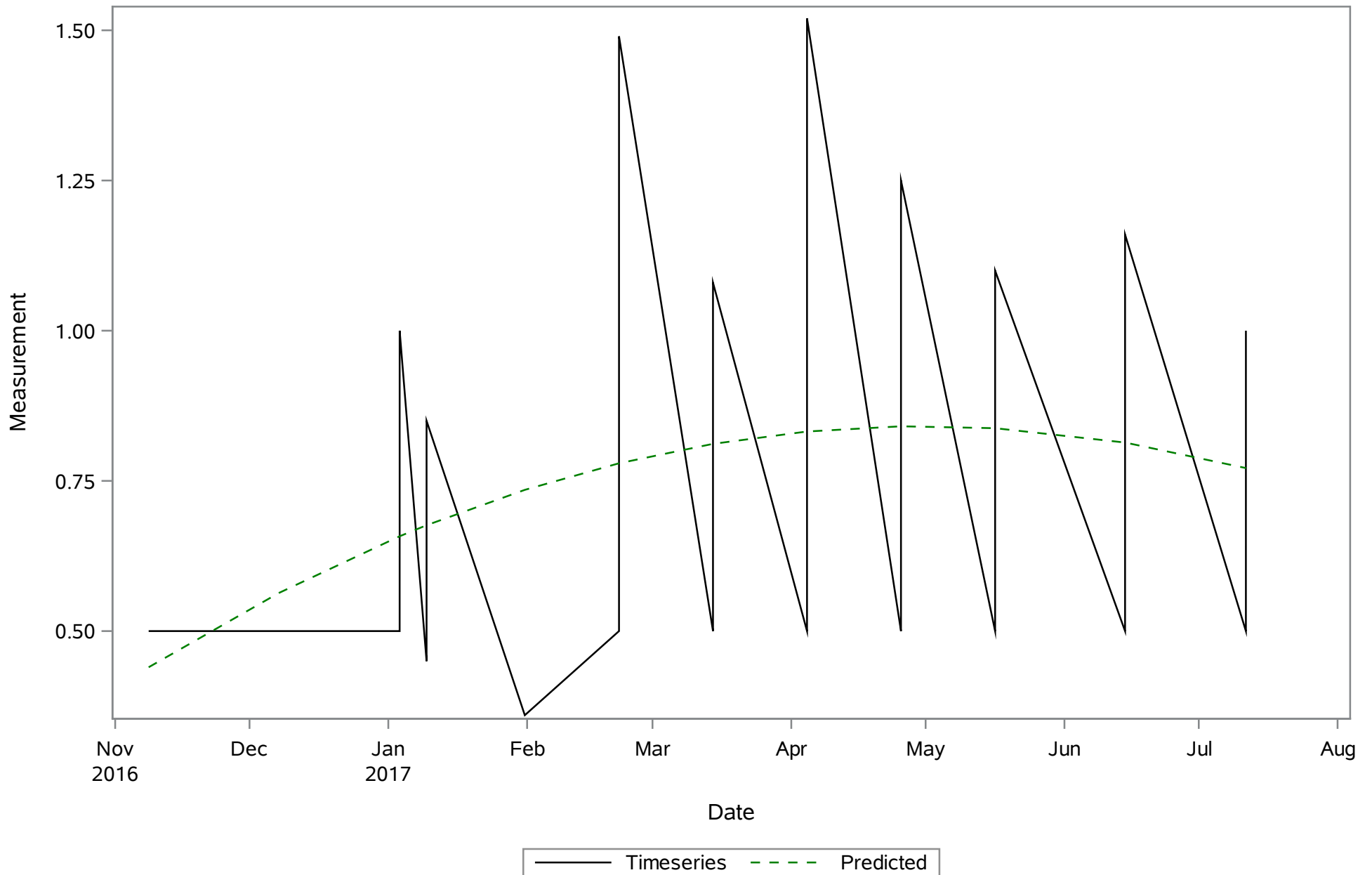
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
pH (Total) SU

The UNIVARIATE Procedure

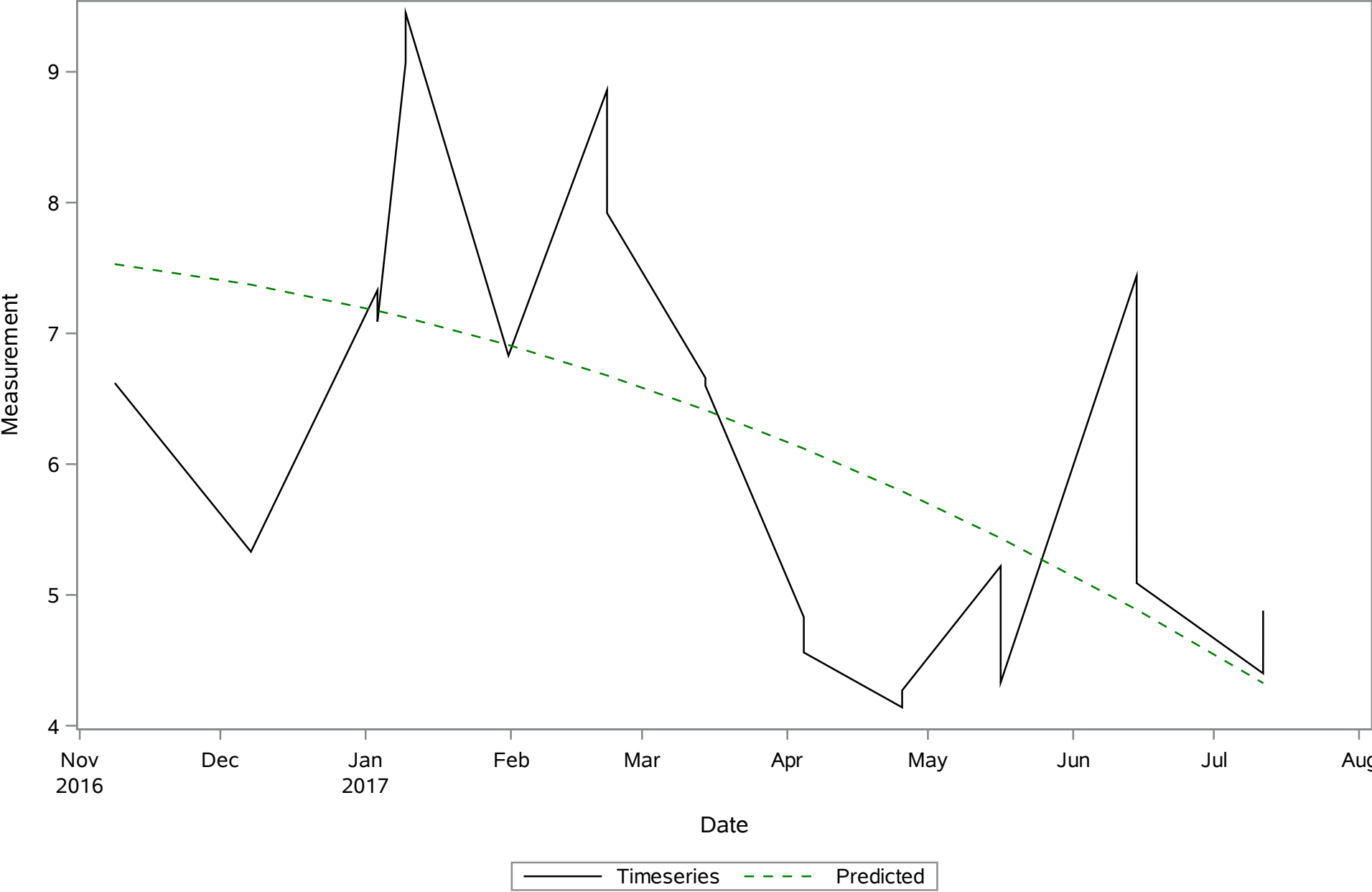
Distribution of result



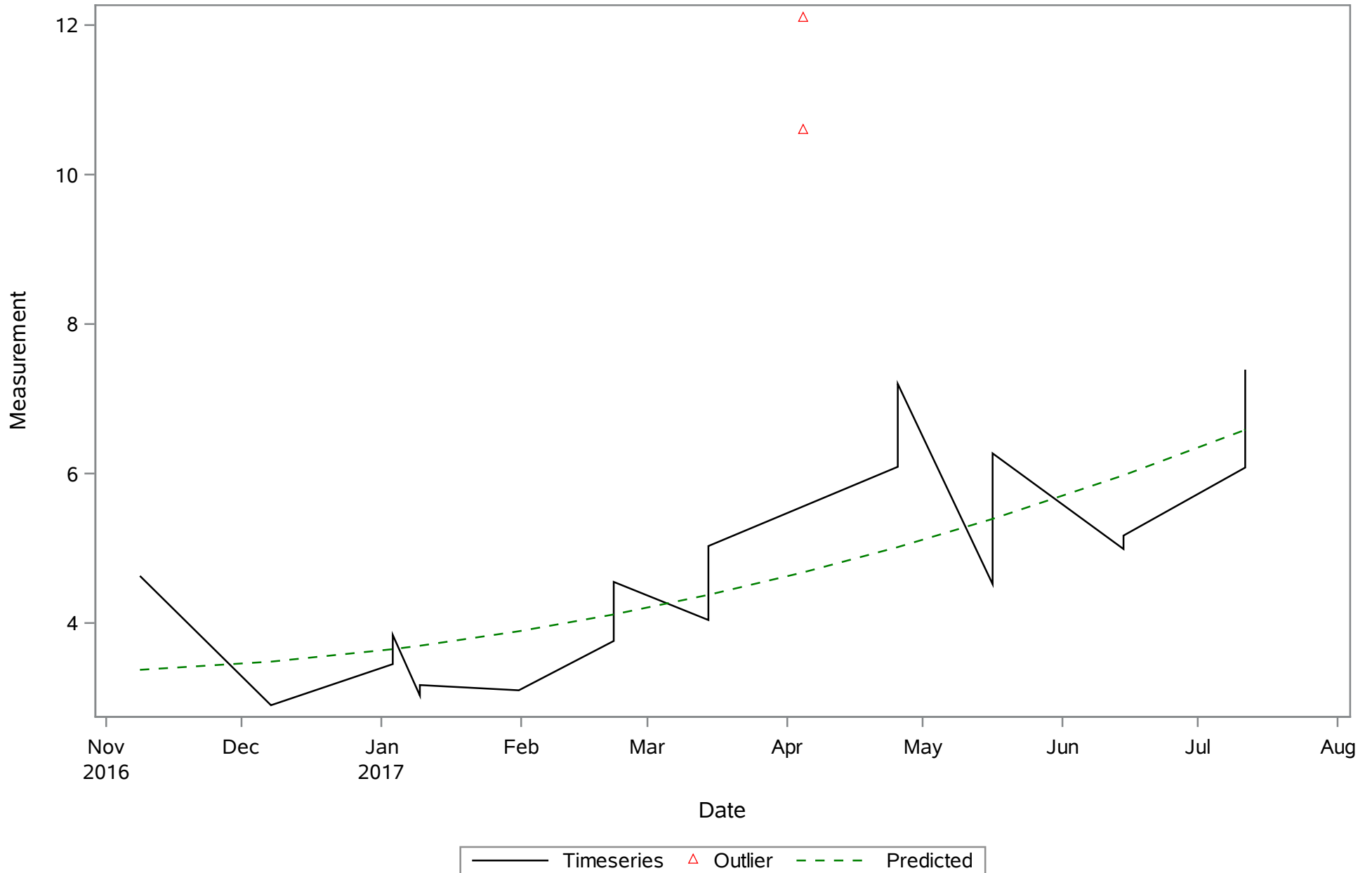
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Depth (Total) Meters



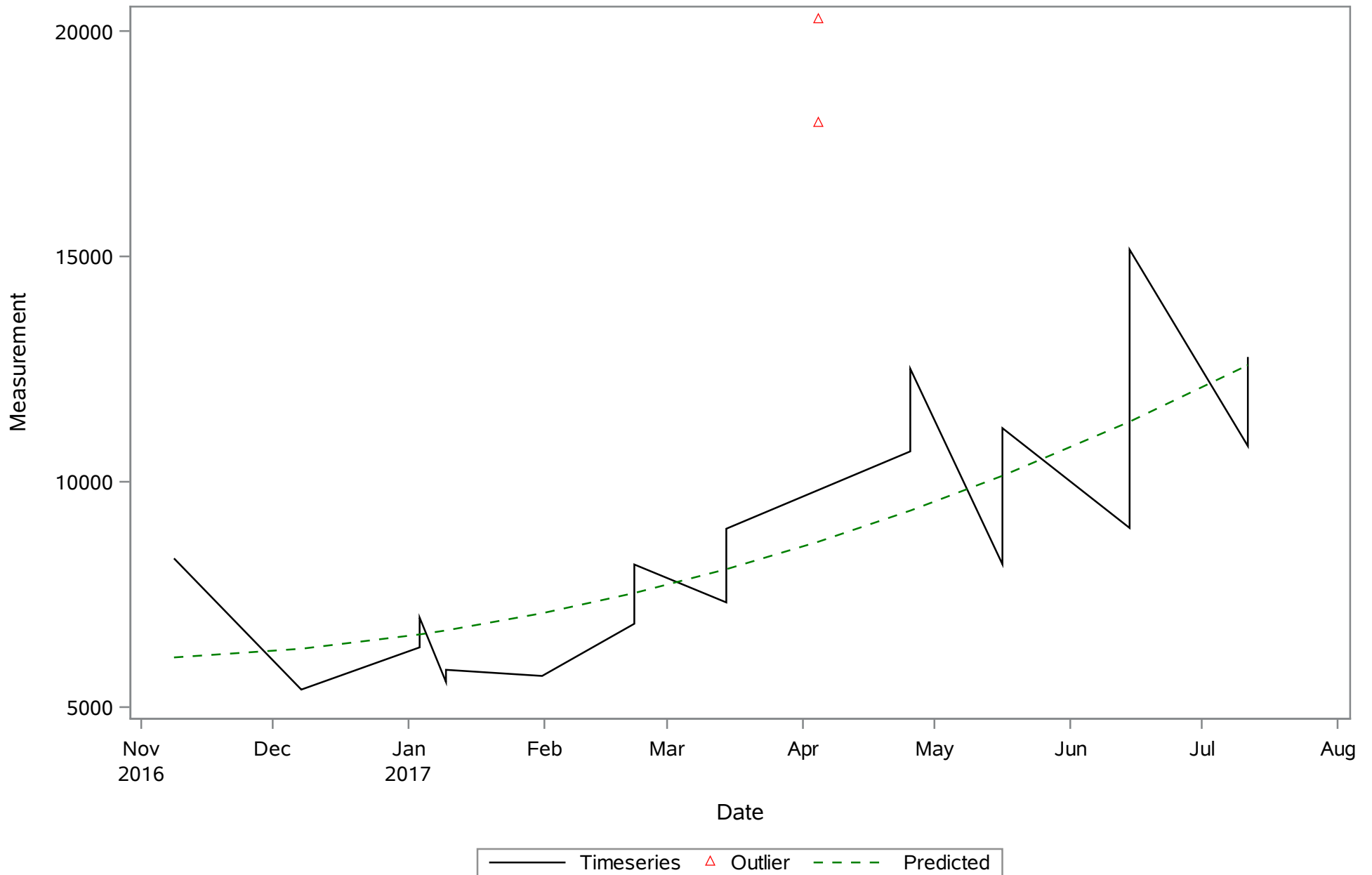
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Dissolved Oxygen (Total) mg/L



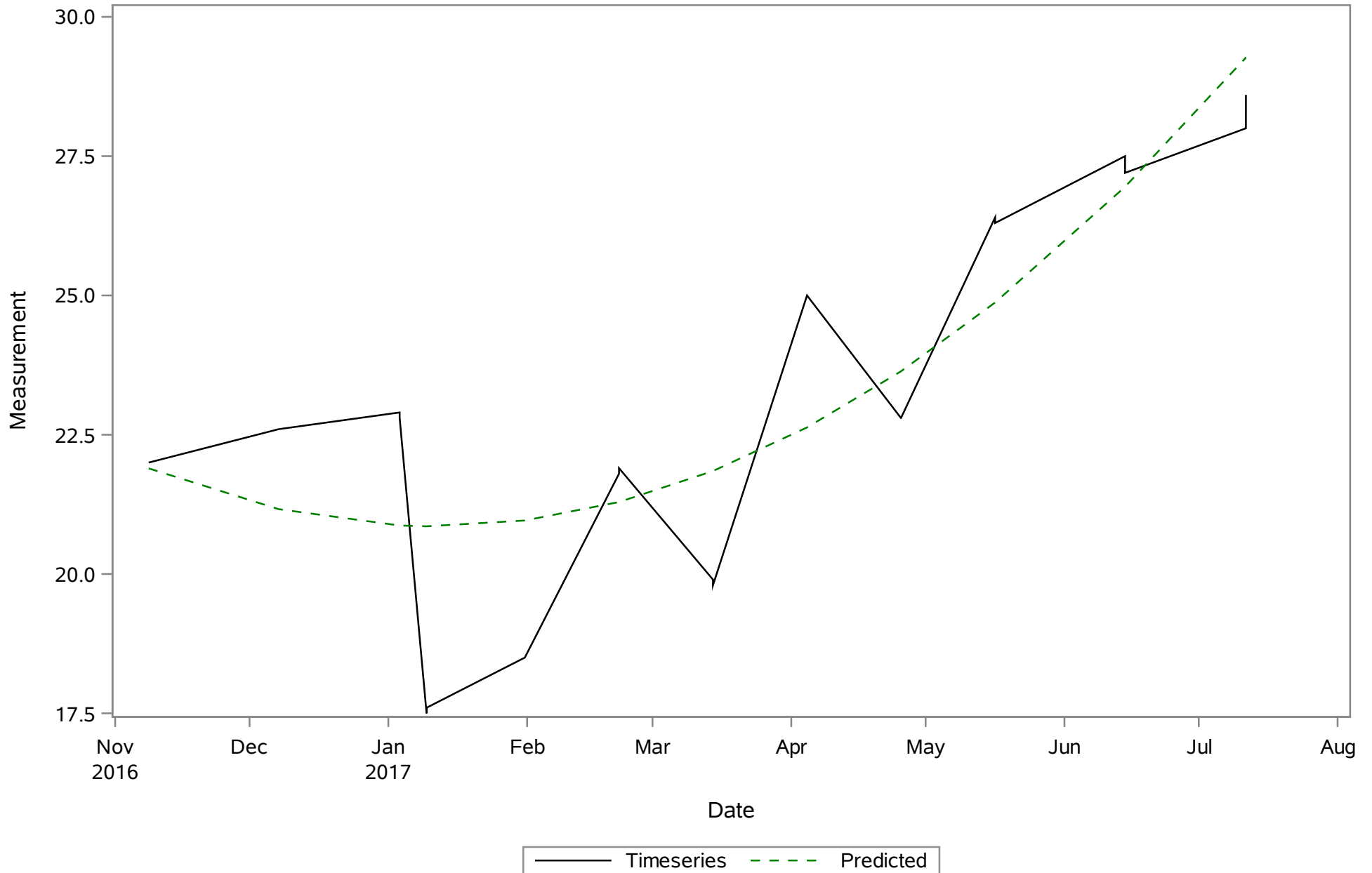
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Salinity (Total) ppth



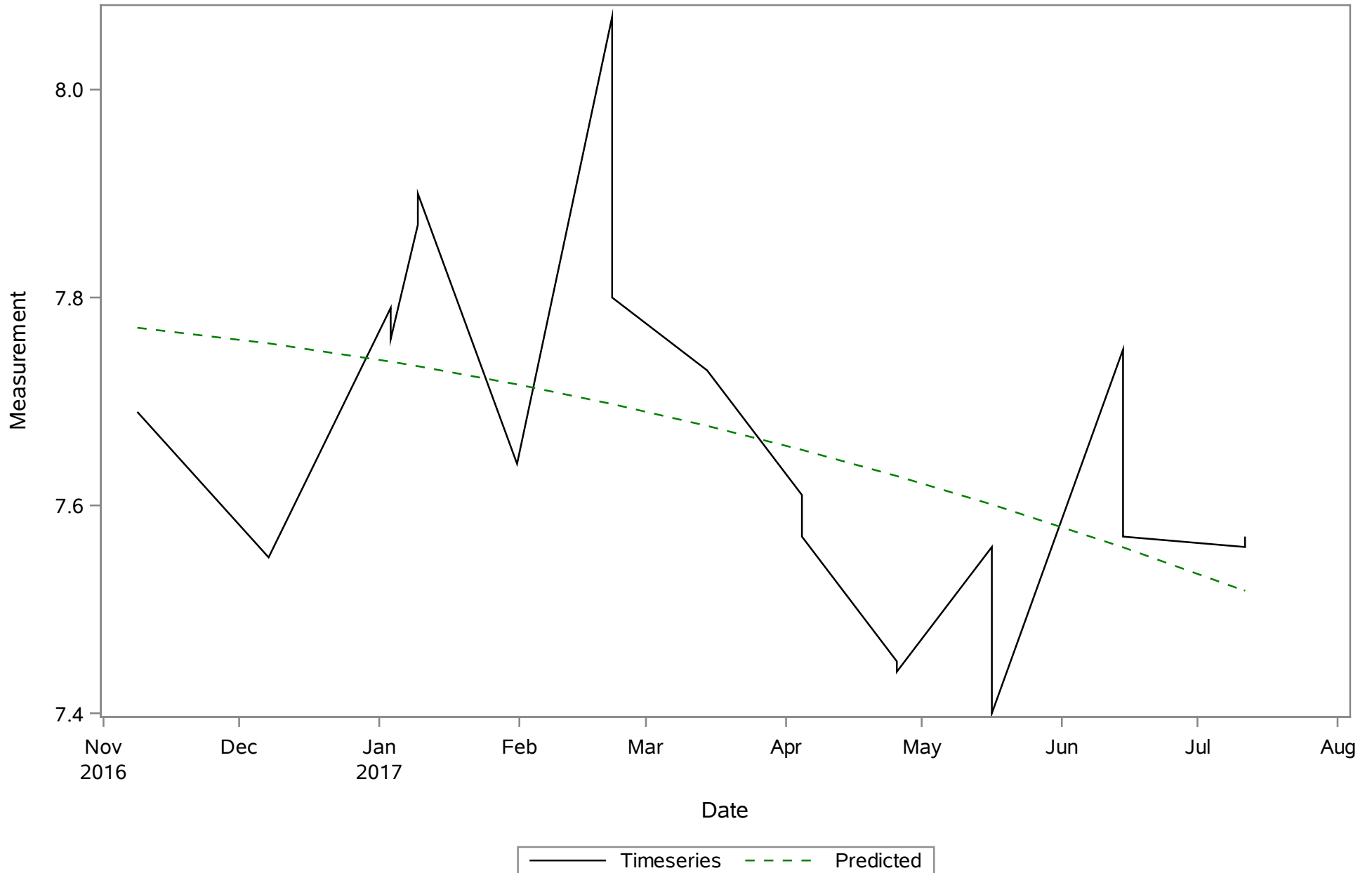
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Specific Conductance (Total) uS/cm



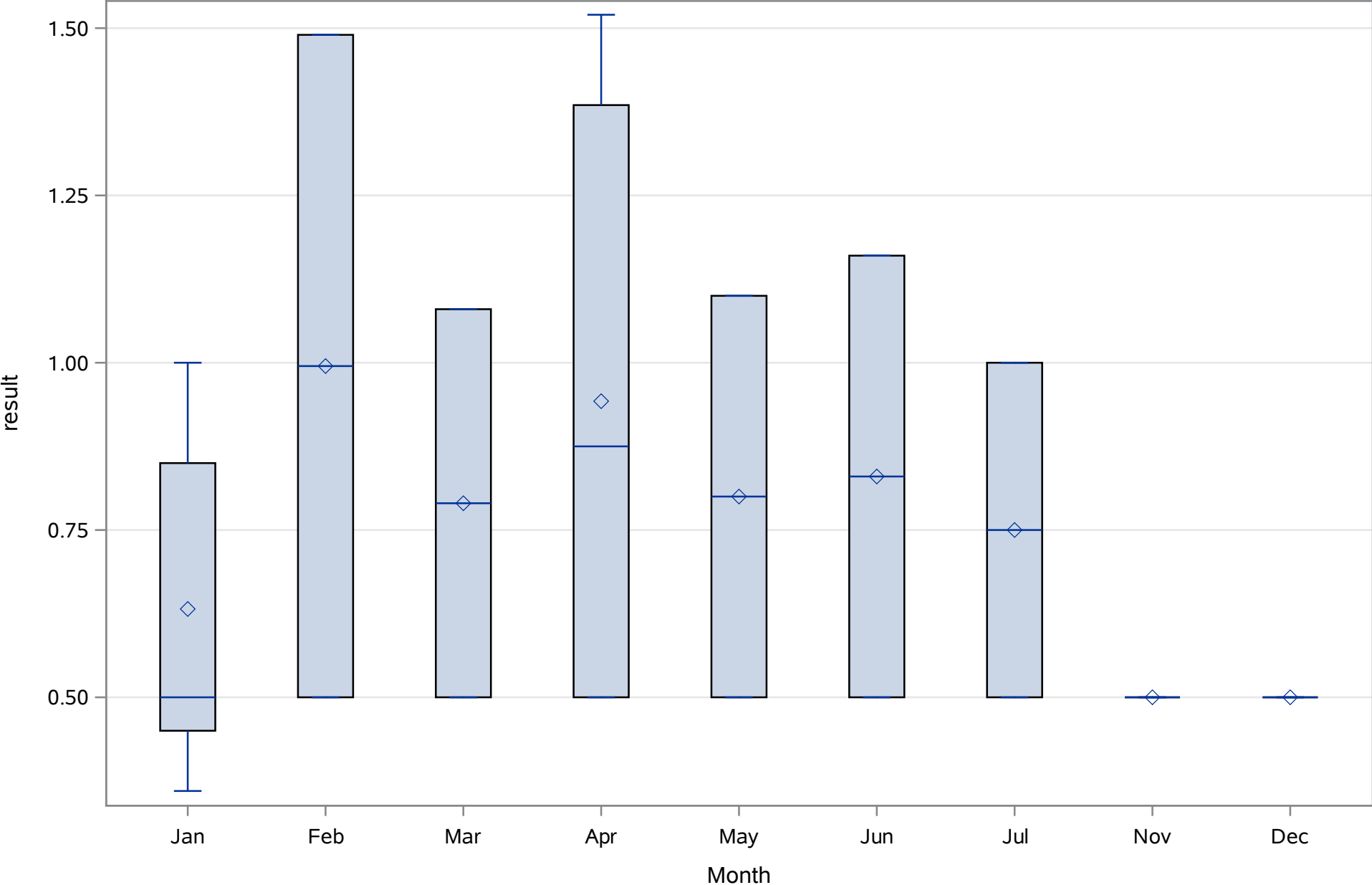
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Temperature (Total) Deg. C



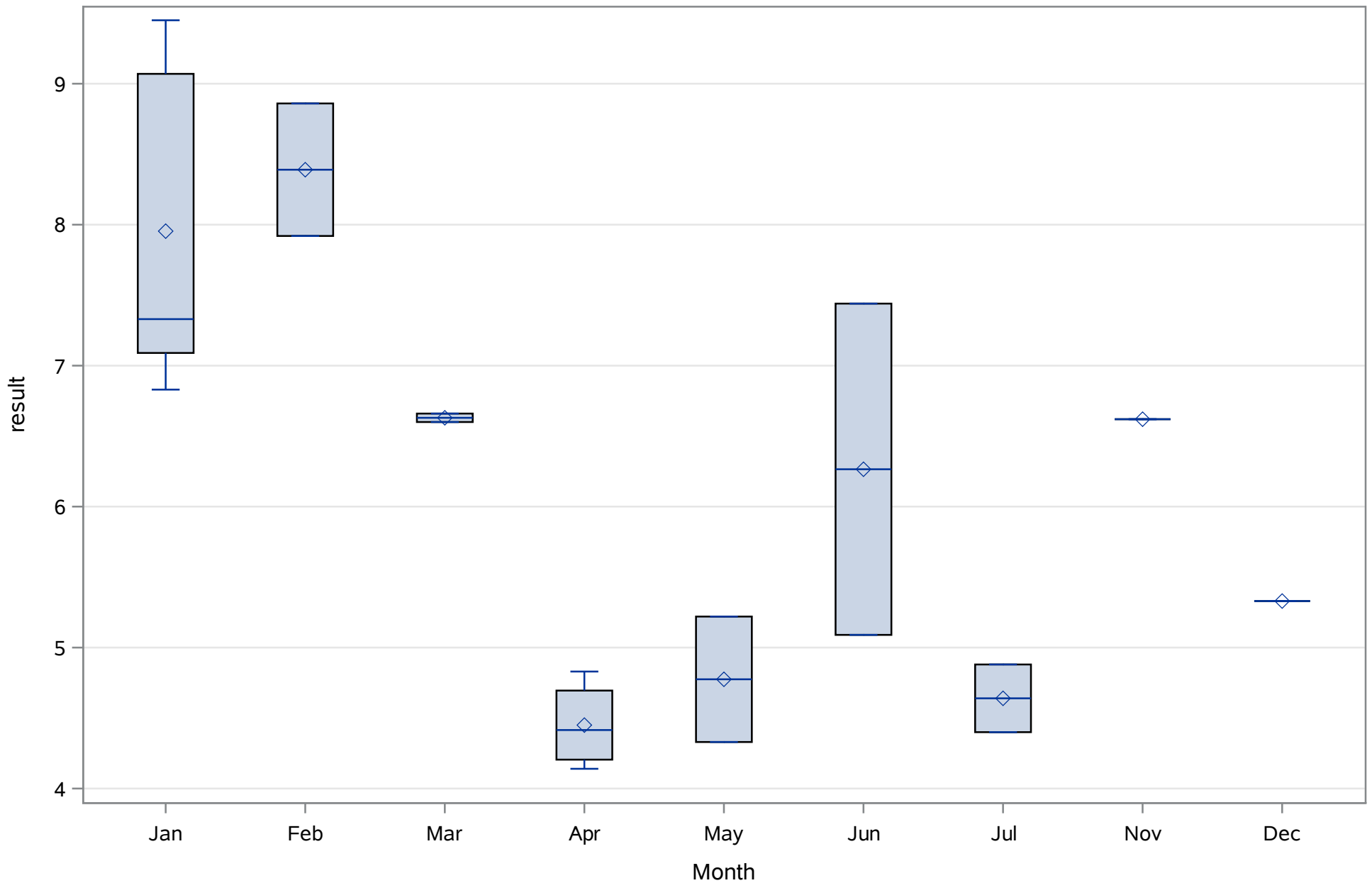
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
pH (Total) SU



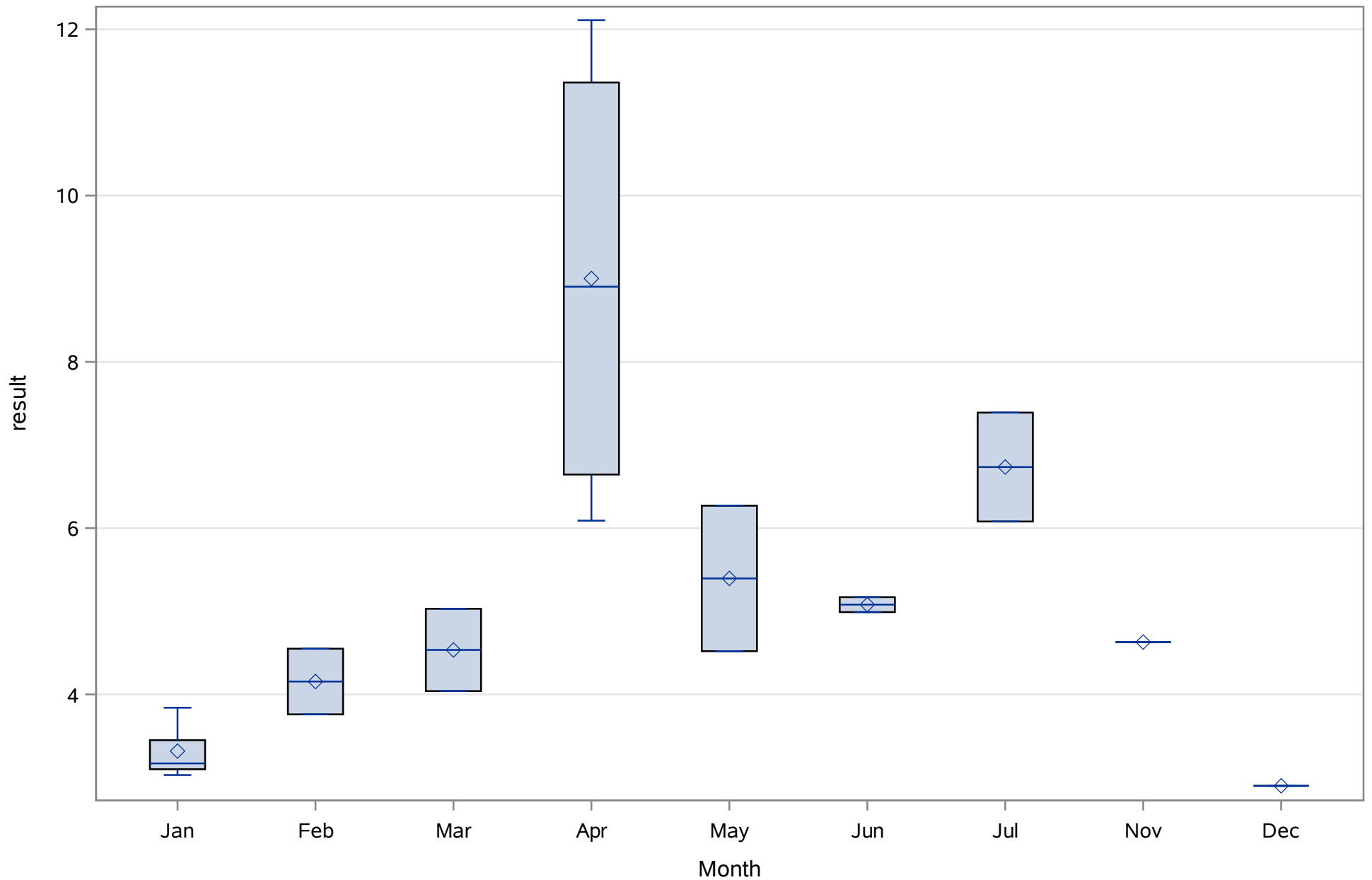
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Depth (Total) Meters



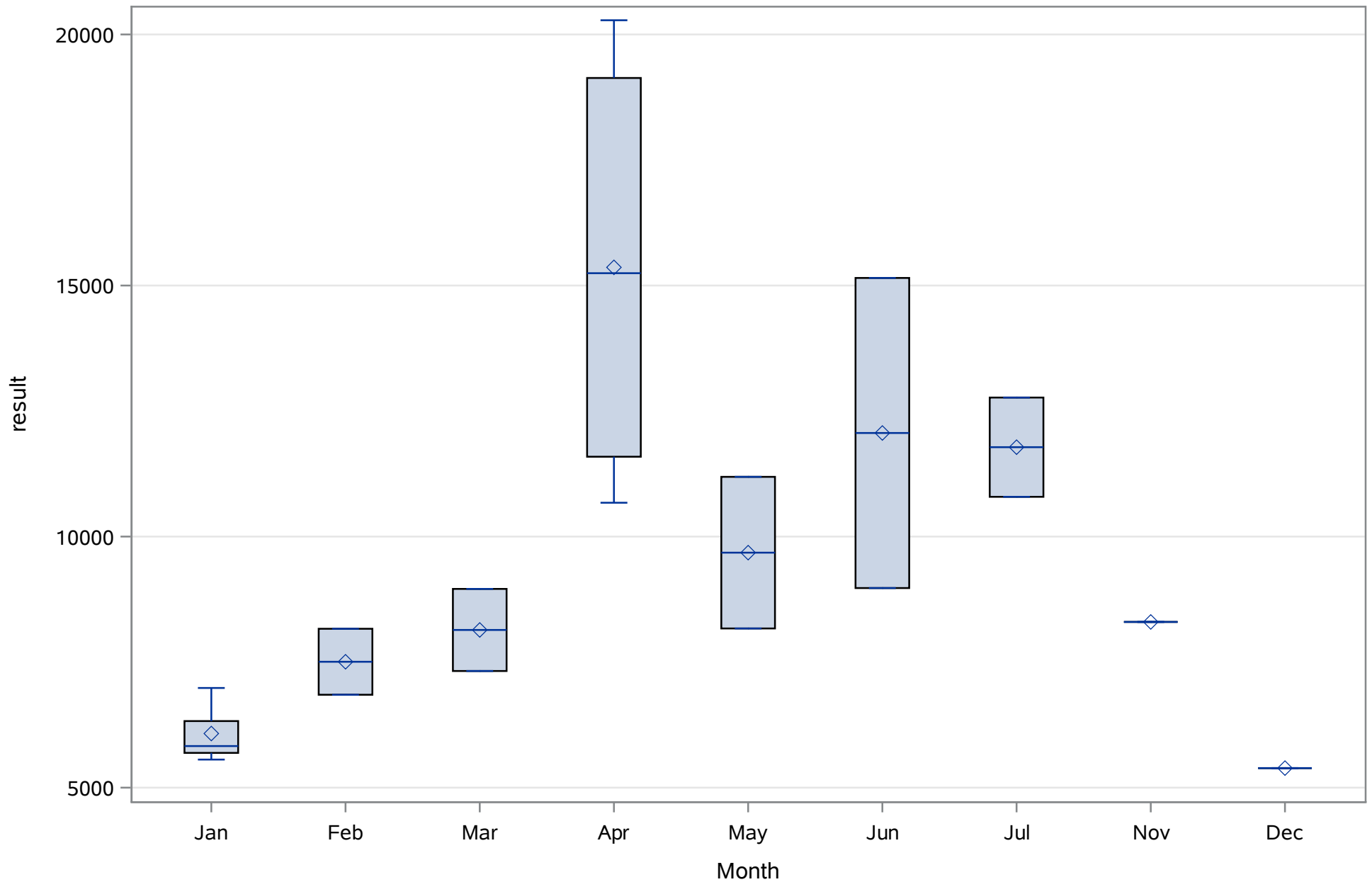
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Dissolved Oxygen (Total) mg/L



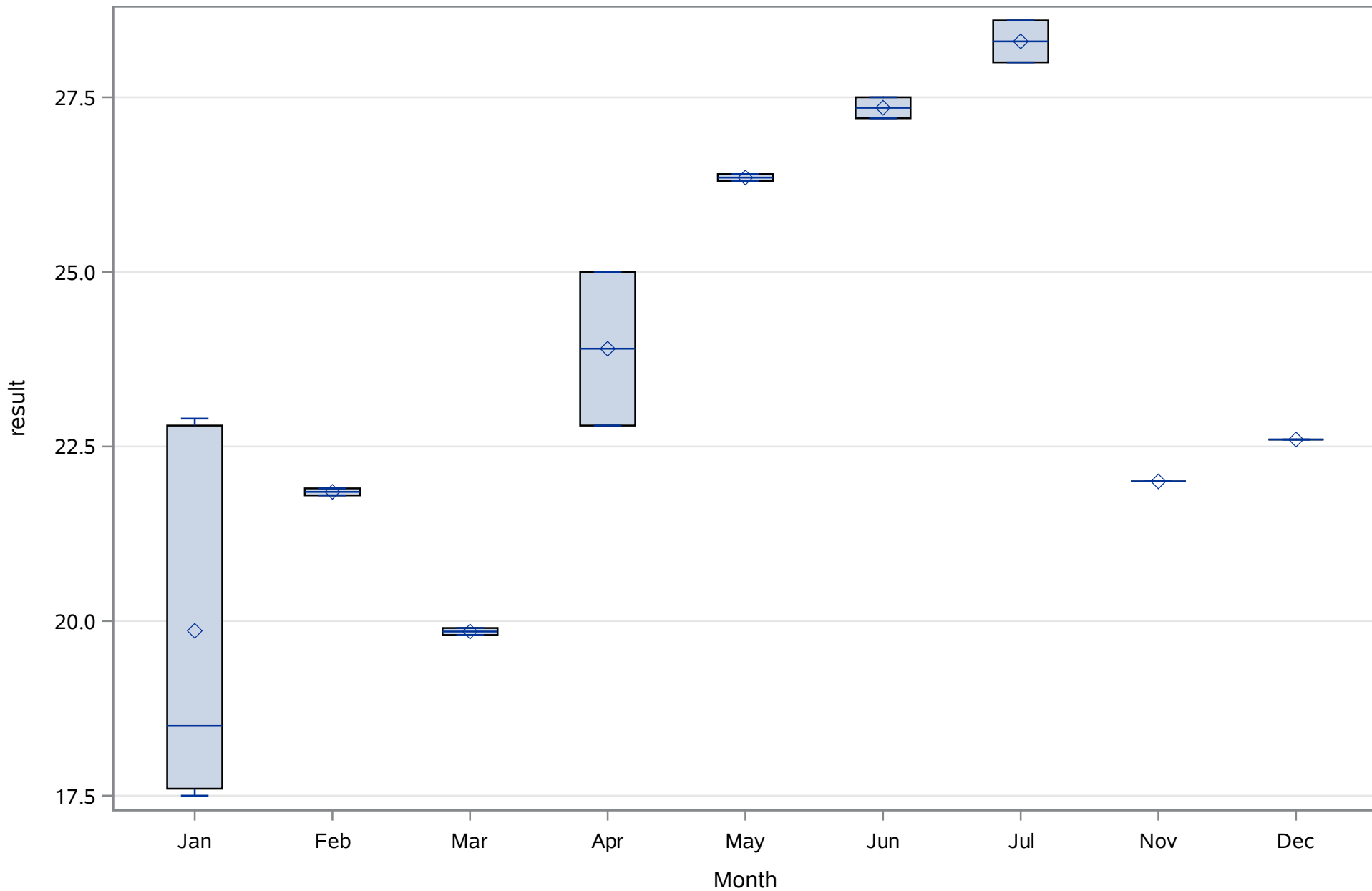
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Salinity (Total) ppth



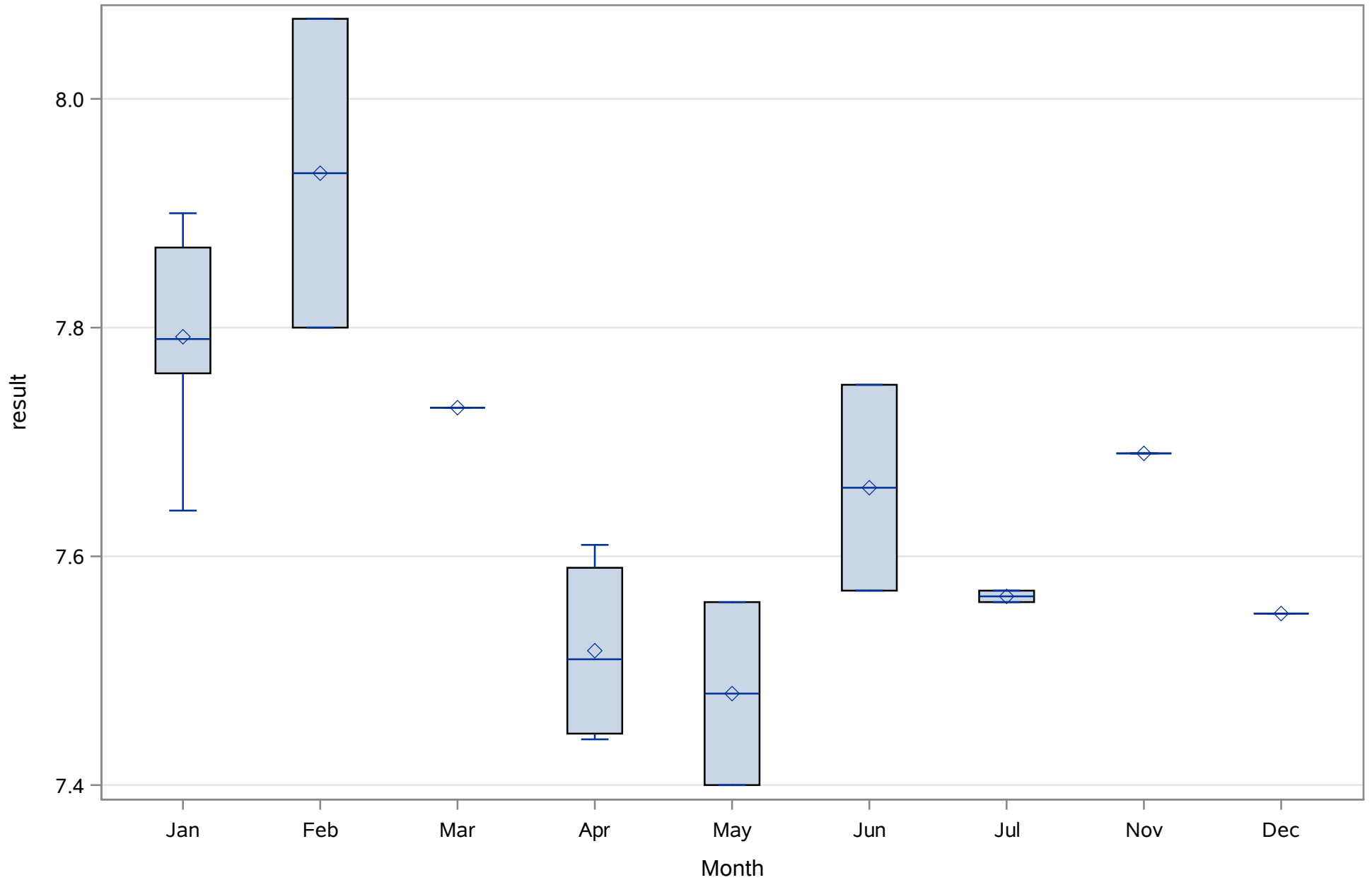
Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Specific Conductance (Total) uS/cm



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: CR Grab
Chassahowitzka River Near USGS Gauge
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Canal 2 Site 2

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Bromide (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Coliform Total (Total)	cfu/100 mL	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Magnesium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Nitrogen- Total (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Silica- Dissolved (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Strontium (Total)	ug/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 4 WQ

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	DEC1999	OCT2000	7	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1999	OCT2000	5	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	OCT1999	OCT2000	10	0.0%	0.0%	100.0%
Calcium (Total)	mg/L	OCT1999	APR2000	5	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT1999	JUN2000	5	0.0%	0.0%	0.0%
Copper (Total)	ug/L	OCT1999	JUN2000	6	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	FEB2000	JUL2000	4	0.0%	0.0%	0.0%
Iron (Total)	ug/L	OCT1999	AUG2000	4	0.0%	0.0%	0.0%
Lead (Total)	ug/L	OCT1999	OCT2000	4	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	OCT1999	AUG2000	7	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1999	MAY2000	4	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JUN2000	OCT2000	5	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	OCT1999	OCT2000	6	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	APR2000	JUN2000	3	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	FEB2000	FEB2000	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	MAY2000	MAY2000	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Total)	mg/L	OCT1999	OCT2000	5	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1999	OCT2000	11	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1999	SEP2000	7	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1999	OCT2000	4	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1999	OCT2000	5	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	OCT1999	JUL2000	7	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Chlorophyll (Total)	ug/L	JUN1997	AUG2014	206	4.9%	1.9%	1.5%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	4.4%	0.0%	1.1%
Color (Total)	PCU	MAY1999	AUG2014	184	6.0%	0.5%	2.2%
Depth (Total)	Meters	JUN1997	AUG2014	206	0.5%	1.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	AUG2014	205	2.0%	2.0%	0.5%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	177	5.6%	1.1%	0.6%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	0.0%	1.5%	0.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	0.5%	1.5%	1.5%
Salinity (Total)	ppth	AUG1997	AUG2014	207	0.0%	1.0%	0.0%
Temperature (Total)	Deg. C	JUN1997	AUG2014	206	1.9%	1.9%	0.5%
pH (Total)	SU	DEC2000	AUG2014	142	4.9%	1.4%	1.4%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	2.4757767	Sum Observations	510.01
Std Deviation	2.8447055	Variance	8.09234939
Skewness	6.22910968	Kurtosis	56.839516
Uncorrected SS	2921.6025	Corrected SS	1658.93163
Coeff Variation	114.901538	Std Error Mean	0.19820002

Basic Statistical Measures			
Location		Variability	
Mean	2.475777	Std Deviation	2.84471
Median	1.700000	Variance	8.09235
Mode	1.100000	Range	31.45000
		Interquartile Range	1.80000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.4913	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.86
99%	12.60
95%	6.30
90%	4.70
75% Q3	2.90
50% Median	1.70
25% Q1	1.10
10%	0.79
5%	0.60
1%	0.50
0% Min	0.41

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.41	166	8.87	85
0.41	127	9.15	102
0.50	14	12.60	110
0.51	120	13.60	25
0.52	200	31.86	122

Chassahowitzka River - Fixed Station

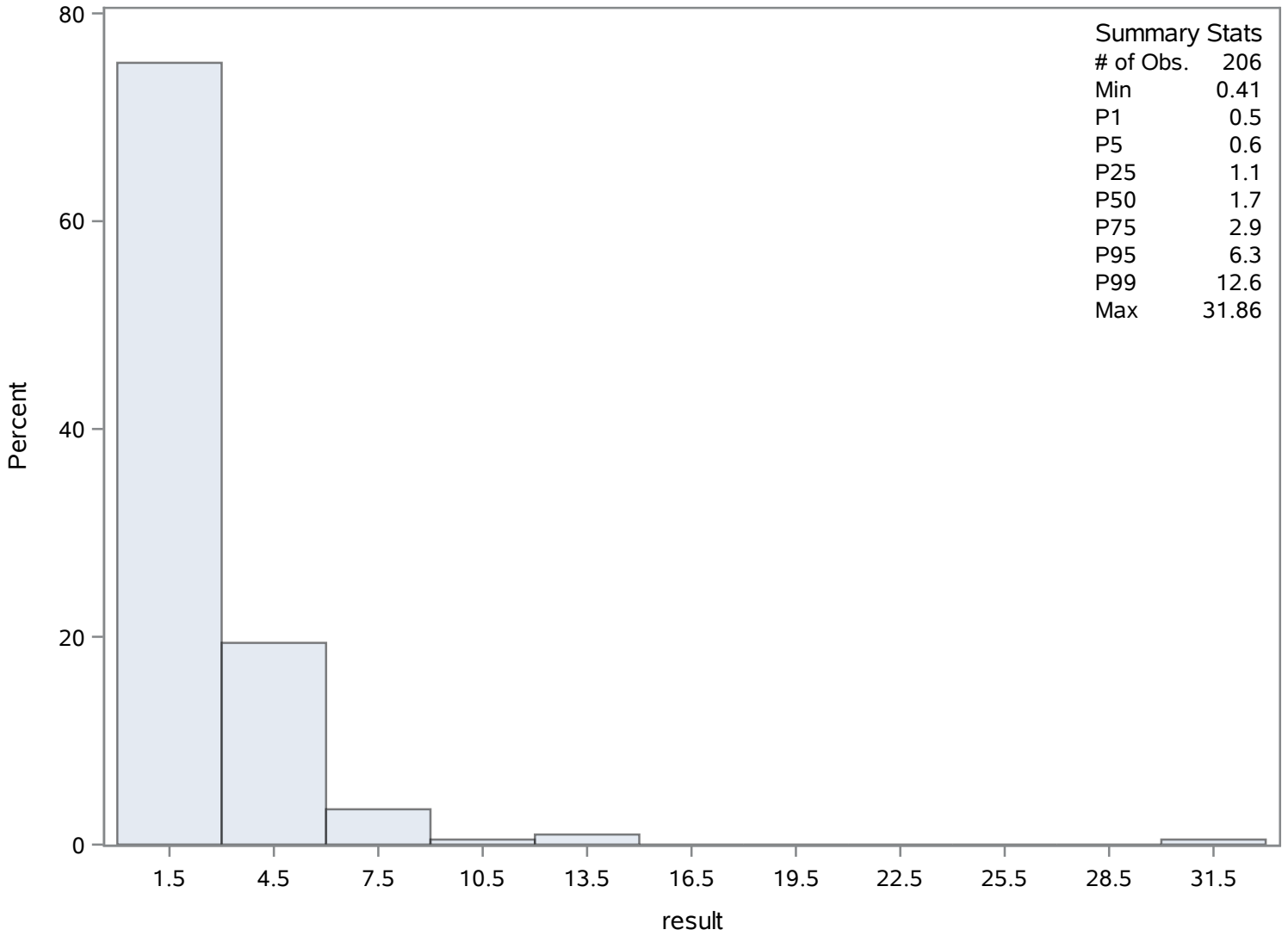
Source: Inactive

Chassahowitzka Citrus 1

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	91	Sum Weights	91
Mean	1.46296703	Sum Observations	133.13
Std Deviation	2.3120383	Variance	5.3455211
Skewness	7.06355731	Kurtosis	59.1352604
Uncorrected SS	675.8617	Corrected SS	481.096899
Coeff Variation	158.037621	Std Error Mean	0.24236747

Basic Statistical Measures			
Location		Variability	
Mean	1.462967	Std Deviation	2.31204
Median	0.890000	Variance	5.34552
Mode	0.450000	Range	20.90000
		Interquartile Range	1.12000

Note: The mode displayed is the smallest of 2 modes with a count of 9.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.036153	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21.12
99%	21.12
95%	3.46
90%	2.79
75% Q3	1.68
50% Median	0.89
25% Q1	0.56
10%	0.34
5%	0.28

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.22
0% Min	0.22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.22	255	3.46	226
0.22	254	4.13	225
0.22	242	4.25	237
0.22	230	5.36	248
0.28	291	21.12	213

Chassahowitzka River - Fixed Station

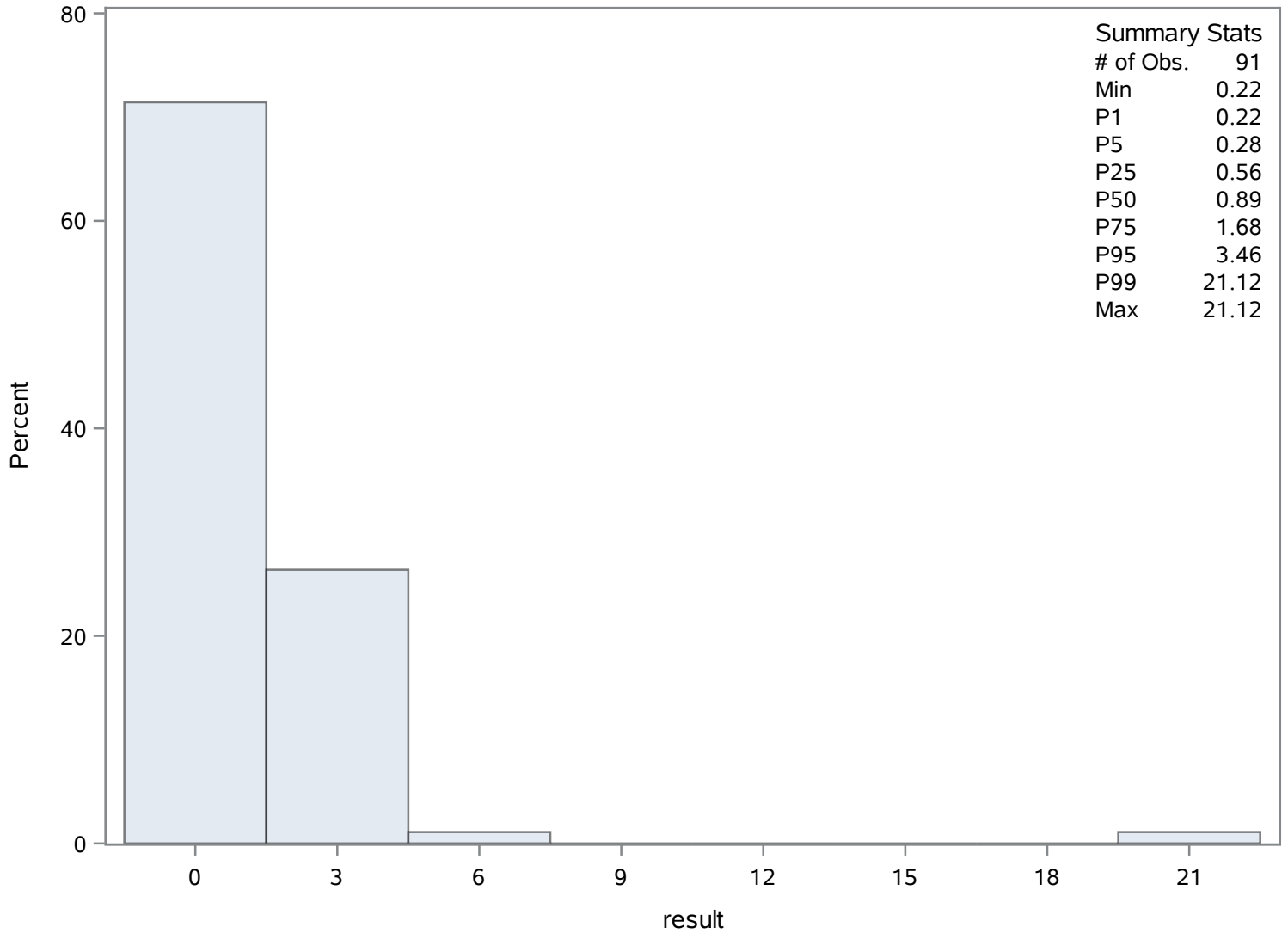
Source: Inactive

Chassahowitzka Citrus 1

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	4.89673913	Sum Observations	901
Std Deviation	6.01502583	Variance	36.1805358
Skewness	5.11779179	Kurtosis	34.2426534
Uncorrected SS	11033	Corrected SS	6621.03804
Coeff Variation	122.837375	Std Error Mean	0.44343359

Basic Statistical Measures			
Location		Variability	
Mean	4.896739	Std Deviation	6.01503
Median	3.000000	Variance	36.18054
Mode	2.000000	Range	55.00000
		Interquartile Range	3.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.04278	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	56.0
99%	37.0
95%	14.0
90%	8.0
75% Q3	5.5
50% Median	3.0
25% Q1	2.0
10%	2.0
5%	2.0
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1

Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	479	18	371
1	451	27	409
1	442	30	457
1	435	37	445
1	415	56	362

Chassahowitzka River - Fixed Station

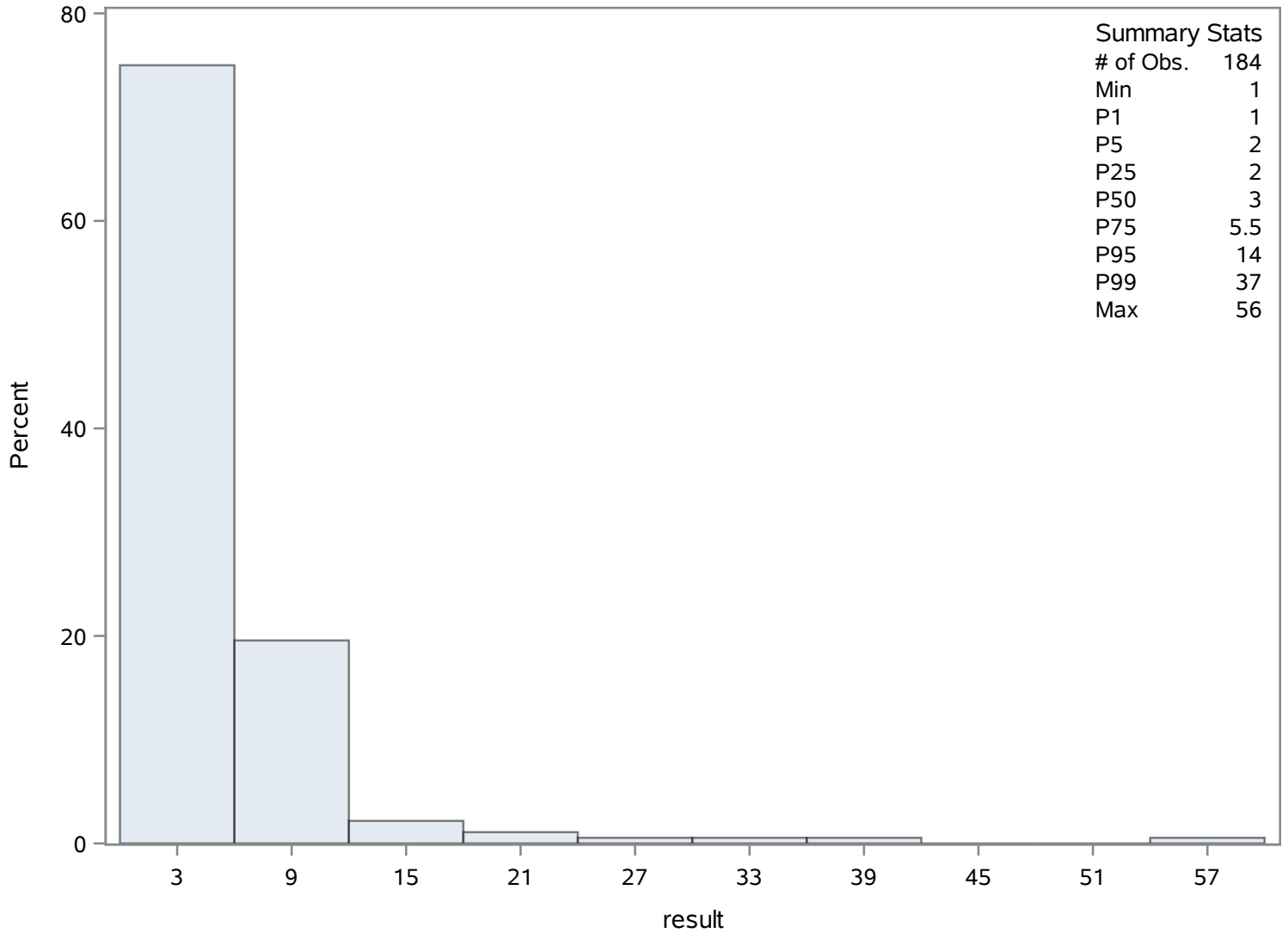
Source: Inactive

Chassahowitzka Citrus 1

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	0.84660194	Sum Observations	174.4
Std Deviation	0.16954201	Variance	0.02874449
Skewness	0.1590225	Kurtosis	-0.1949677
Uncorrected SS	153.54	Corrected SS	5.89262136
Coeff Variation	20.0261782	Std Error Mean	0.01181255

Basic Statistical Measures			
Location		Variability	
Mean	0.846602	Std Deviation	0.16954
Median	0.800000	Variance	0.02874
Mode	0.800000	Range	0.80000
		Interquartile Range	0.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	71.66969	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.3
99%	1.2
95%	1.1
90%	1.1
75% Q3	1.0
50% Median	0.8
25% Q1	0.7
10%	0.6
5%	0.6
1%	0.5
0% Min	0.5

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	632	1.2	554
0.5	629	1.2	565
0.5	620	1.2	663
0.5	608	1.3	485
0.5	594	1.3	640

Chassahowitzka River - Fixed Station

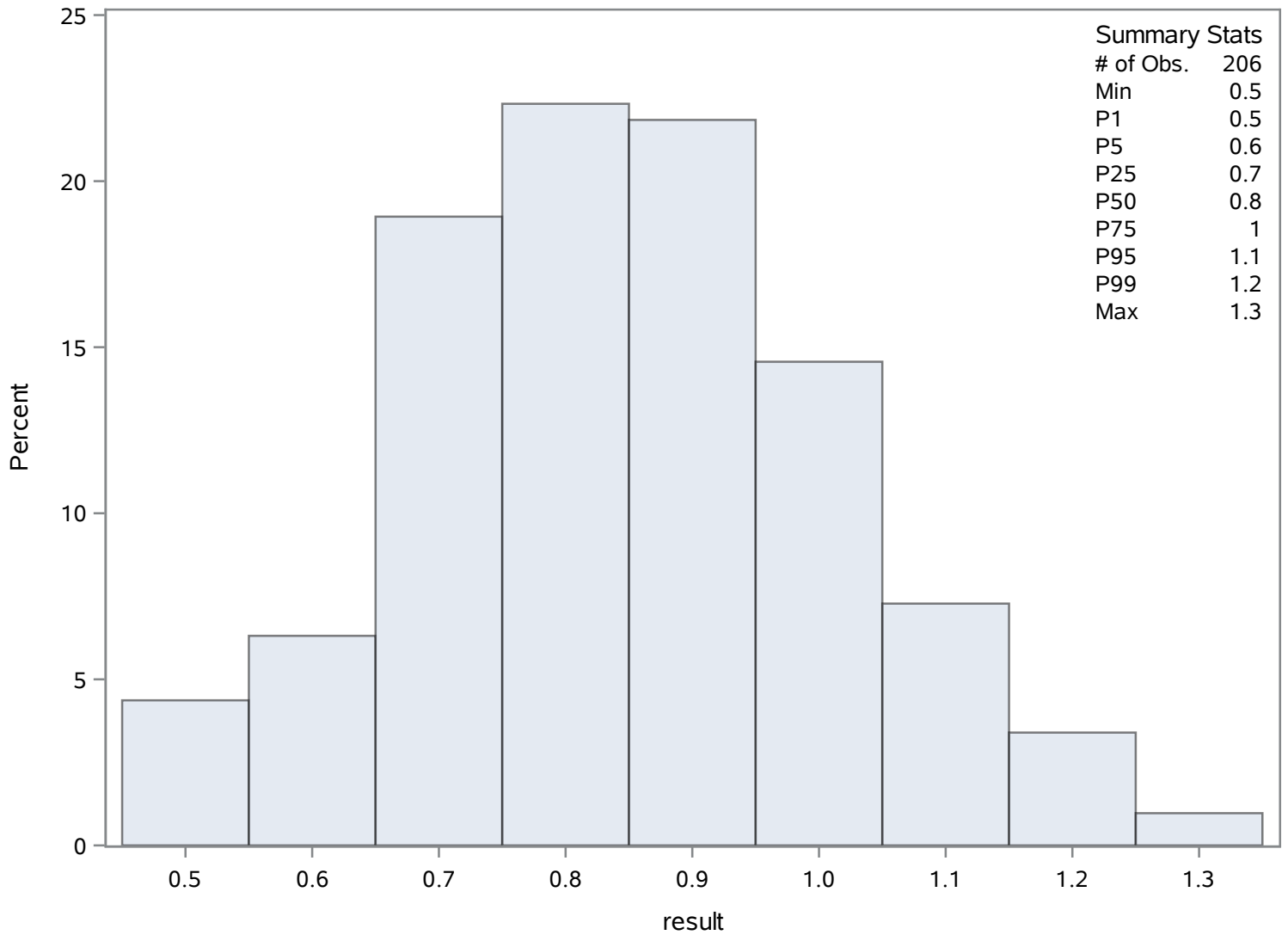
Source: Inactive

Chassahowitzka Citrus 1

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	7.18141463	Sum Observations	1472.19
Std Deviation	1.65151489	Variance	2.72750142
Skewness	0.84211456	Kurtosis	0.99346628
Uncorrected SS	11128.8171	Corrected SS	556.41029
Coeff Variation	22.9970691	Std Error Mean	0.1153468

Basic Statistical Measures			
Location		Variability	
Mean	7.181415	Std Deviation	1.65151
Median	6.940000	Variance	2.72750
Mode	6.800000	Range	9.89000
		Interquartile Range	1.83000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	62.25933	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.45
99%	11.47
95%	10.51
90%	9.70
75% Q3	7.93
50% Median	6.94
25% Q1	6.10
10%	5.21
5%	4.83
1%	4.29
0% Min	3.56

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.56	802	11.36	734
4.23	848	11.40	715
4.29	836	11.47	853
4.44	845	11.50	809
4.48	801	13.45	829

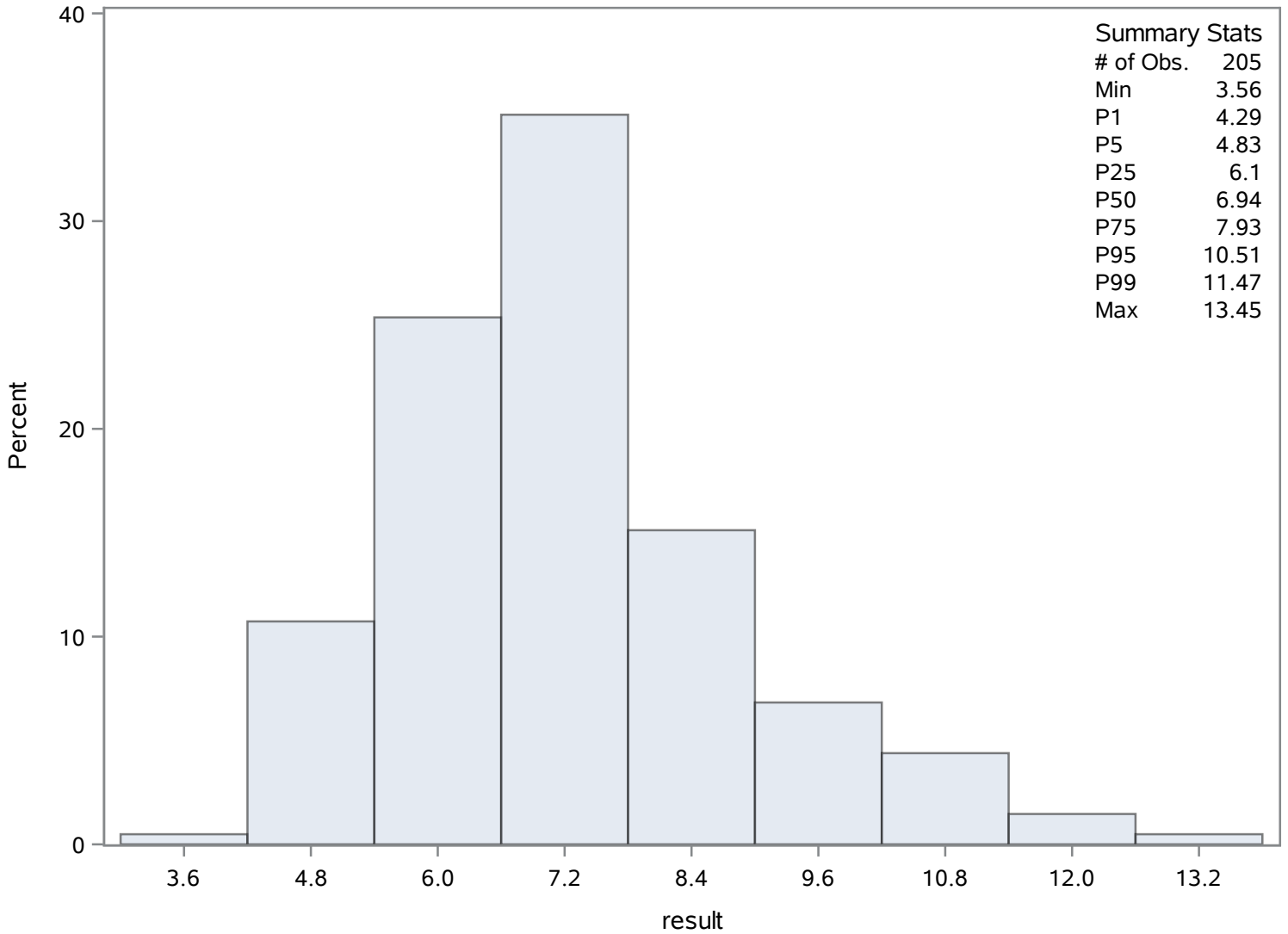
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	177	Sum Weights	177
Mean	0.98622599	Sum Observations	174.562
Std Deviation	0.74364963	Variance	0.55301477
Skewness	5.50035179	Kurtosis	47.8914776
Uncorrected SS	269.48818	Corrected SS	97.330599
Coeff Variation	75.4035723	Std Error Mean	0.05589613

Basic Statistical Measures			
Location		Variability	
Mean	0.986226	Std Deviation	0.74365
Median	0.823000	Variance	0.55301
Mode	0.657000	Range	7.90100
		Interquartile Range	0.50800

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.64391	Pr > t 	<.0001
Sign	M	88.5	Pr >= M 	<.0001
Signed Rank	S	7876.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.119
99%	2.983
95%	2.271
90%	1.632
75% Q3	1.138
50% Median	0.823
25% Q1	0.630
10%	0.474
5%	0.337
1%	0.232
0% Min	0.218

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m

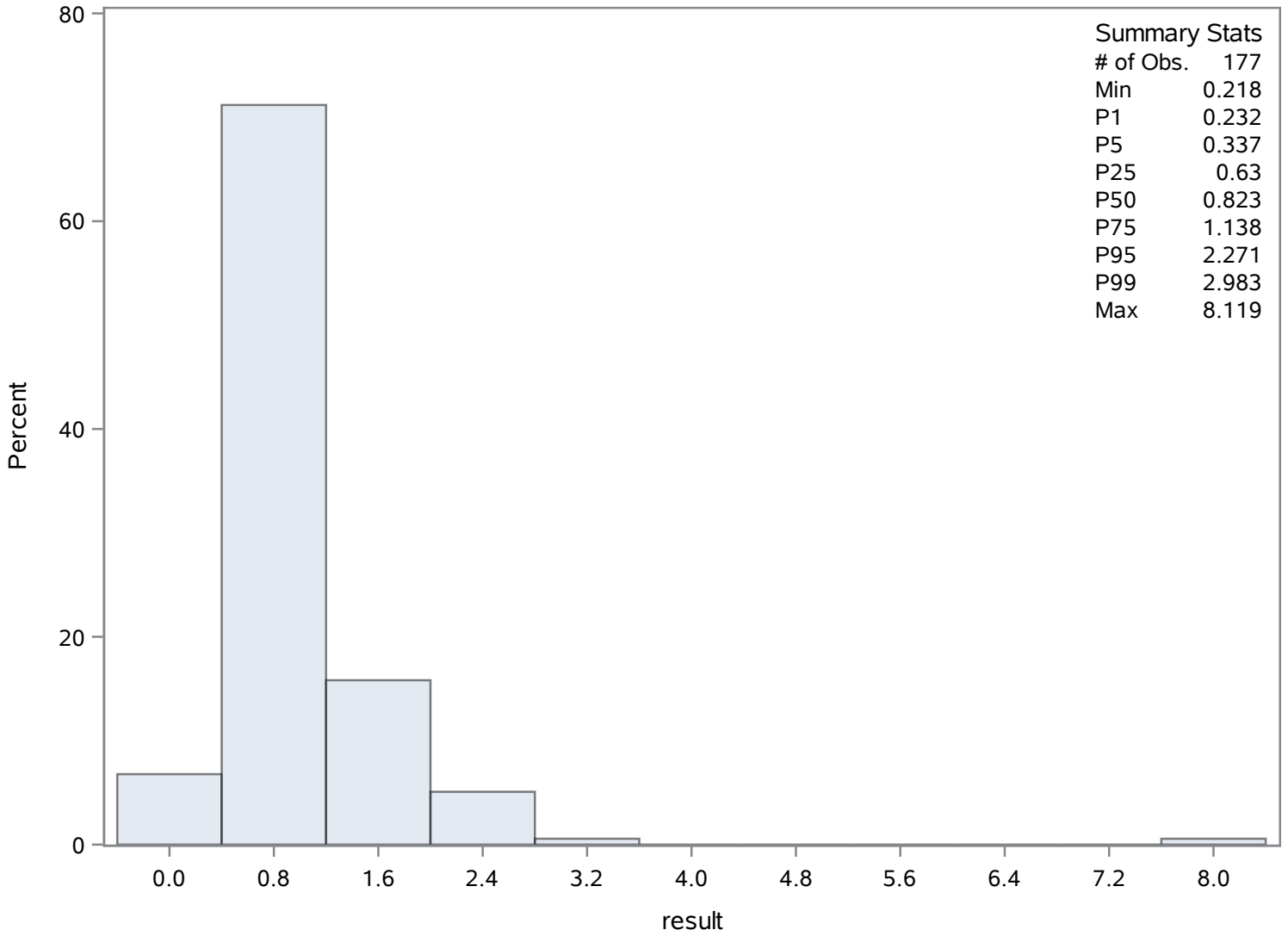
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.218	917	2.474	977
0.232	916	2.562	950
0.243	982	2.717	984
0.247	1066	2.983	990
0.247	1005	8.119	919

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	463.203883	Sum Observations	95420
Std Deviation	120.731216	Variance	14576.0265
Skewness	-0.2751811	Kurtosis	-0.5705851
Uncorrected SS	47187000	Corrected SS	2988085.44
Coeff Variation	26.0643791	Std Error Mean	8.41174241

Basic Statistical Measures			
Location		Variability	
Mean	463.2039	Std Deviation	120.73122
Median	470.0000	Variance	14576
Mode	430.0000	Range	550.00000
		Interquartile Range	180.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	55.06634	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	720
99%	670
95%	640
90%	620
75% Q3	560
50% Median	470
25% Q1	380
10%	290
5%	250
1%	190
0% Min	170

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
170	1122	660	1239
190	1123	660	1256
190	1073	670	1185
200	1197	690	1272
200	1074	720	1240

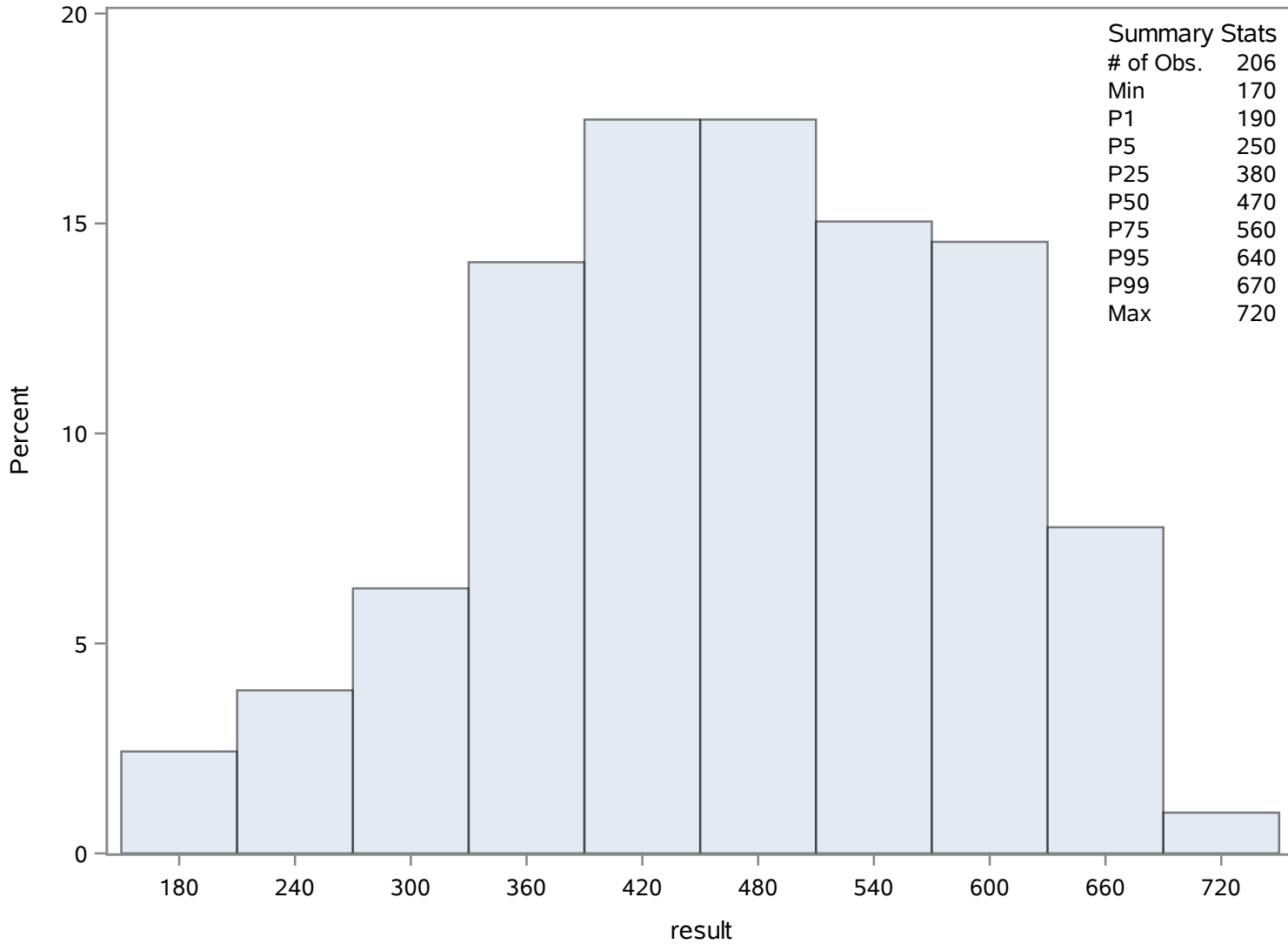
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1 Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	16.815534	Sum Observations	3464
Std Deviation	4.00791308	Variance	16.0633673
Skewness	0.75774417	Kurtosis	1.95242656
Uncorrected SS	61542	Corrected SS	3292.99029
Coeff Variation	23.834587	Std Error Mean	0.27924454

Basic Statistical Measures			
Location		Variability	
Mean	16.81553	Std Deviation	4.00791
Median	16.00000	Variance	16.06337
Mode	15.00000	Range	27.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	60.21795	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	34
99%	30
95%	24
90%	21
75% Q3	19
50% Median	16
25% Q1	14
10%	12
5%	11
1%	9
0% Min	7

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	1418	26	1469
8	1330	27	1433
9	1477	30	1276
9	1408	30	1300
9	1370	34	1363

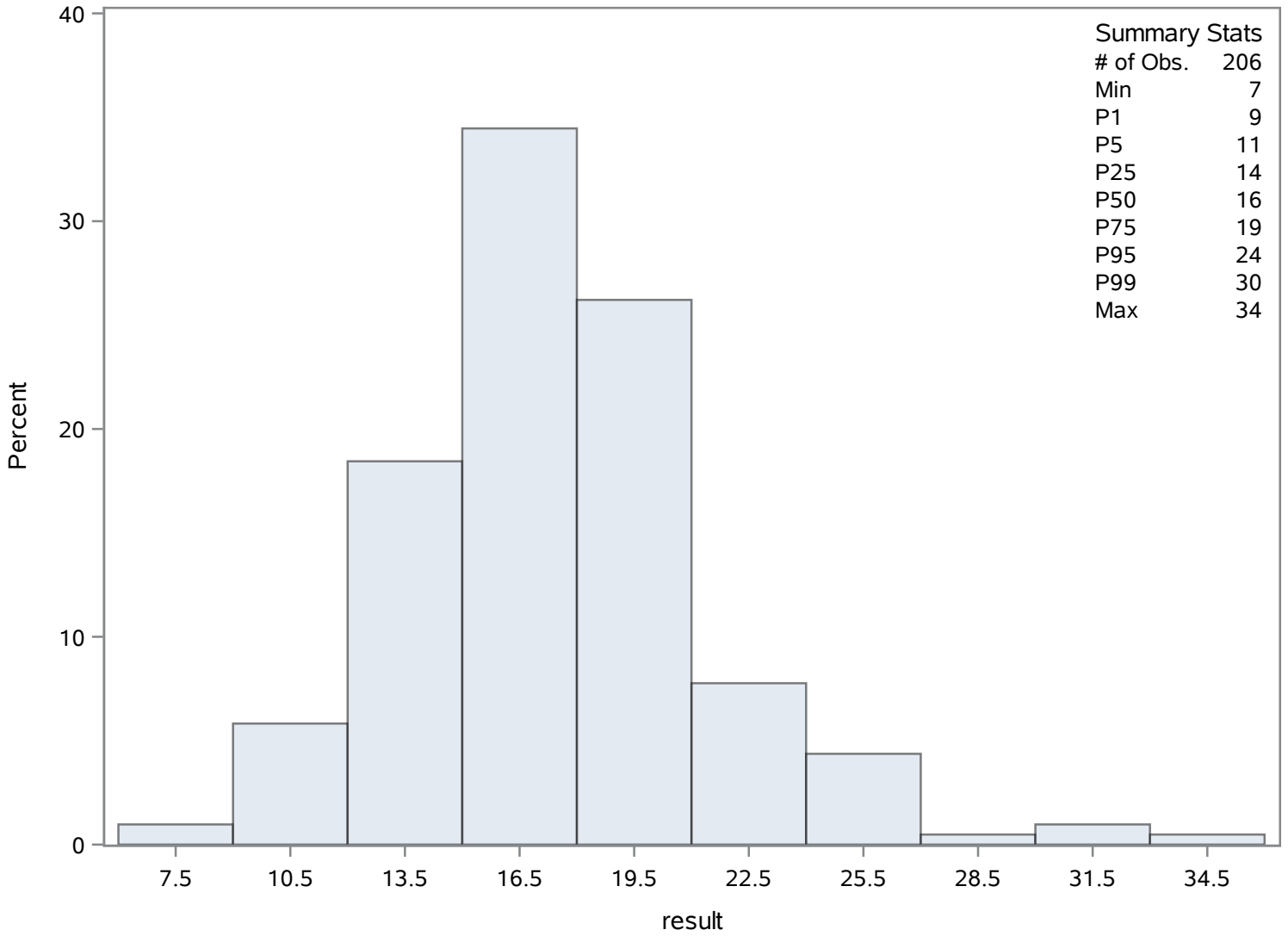
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	2.51743961	Sum Observations	521.11
Std Deviation	1.01471777	Variance	1.02965215
Skewness	0.25093489	Kurtosis	-0.1811434
Uncorrected SS	1523.9713	Corrected SS	212.108343
Coeff Variation	40.3075316	Std Error Mean	0.07052776

Basic Statistical Measures			
Location		Variability	
Mean	2.517440	Std Deviation	1.01472
Median	2.400000	Variance	1.02965
Mode	2.000000	Range	4.91000
		Interquartile Range	1.40000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	35.69431	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.26
99%	5.00
95%	4.09
90%	3.91
75% Q3	3.20
50% Median	2.40
25% Q1	1.80
10%	1.27
5%	0.97
1%	0.40
0% Min	0.35

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1

Salinity (Total) ppth

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.35	1573	5.00	1482
0.40	1569	5.00	1491
0.40	1567	5.00	1603
0.40	1497	5.22	1649
0.50	1575	5.26	1601

Chassahowitzka River - Fixed Station

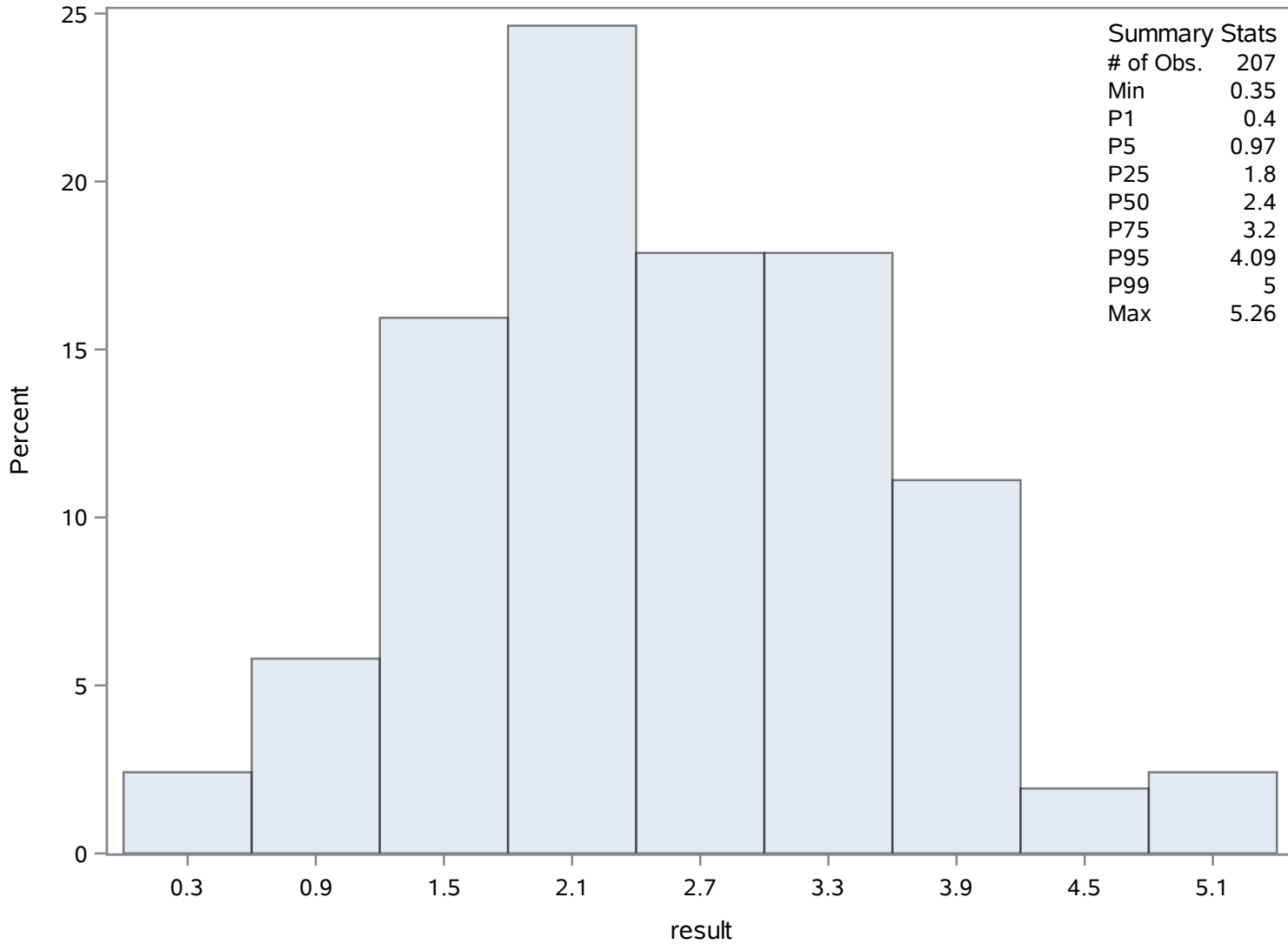
Source: Inactive

Chassahowitzka Citrus 1

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	23.6218447	Sum Observations	4866.1
Std Deviation	0.70124245	Variance	0.49174097
Skewness	0.3945308	Kurtosis	1.02570981
Uncorrected SS	115047.065	Corrected SS	100.806899
Coeff Variation	2.96861849	Std Error Mean	0.04885788

Basic Statistical Measures			
Location		Variability	
Mean	23.62184	Std Deviation	0.70124
Median	23.56500	Variance	0.49174
Mode	24.00000	Range	4.34000
		Interquartile Range	0.75000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	483.4808	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.140
99%	25.500
95%	25.000
90%	24.500
75% Q3	23.980
50% Median	23.565
25% Q1	23.230
10%	22.800
5%	22.450
1%	22.000
0% Min	21.800

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21.80	1731	25.20	1719
21.84	1754	25.40	1715
22.00	1697	25.50	1690
22.07	1743	25.70	1727
22.20	1779	26.14	1810

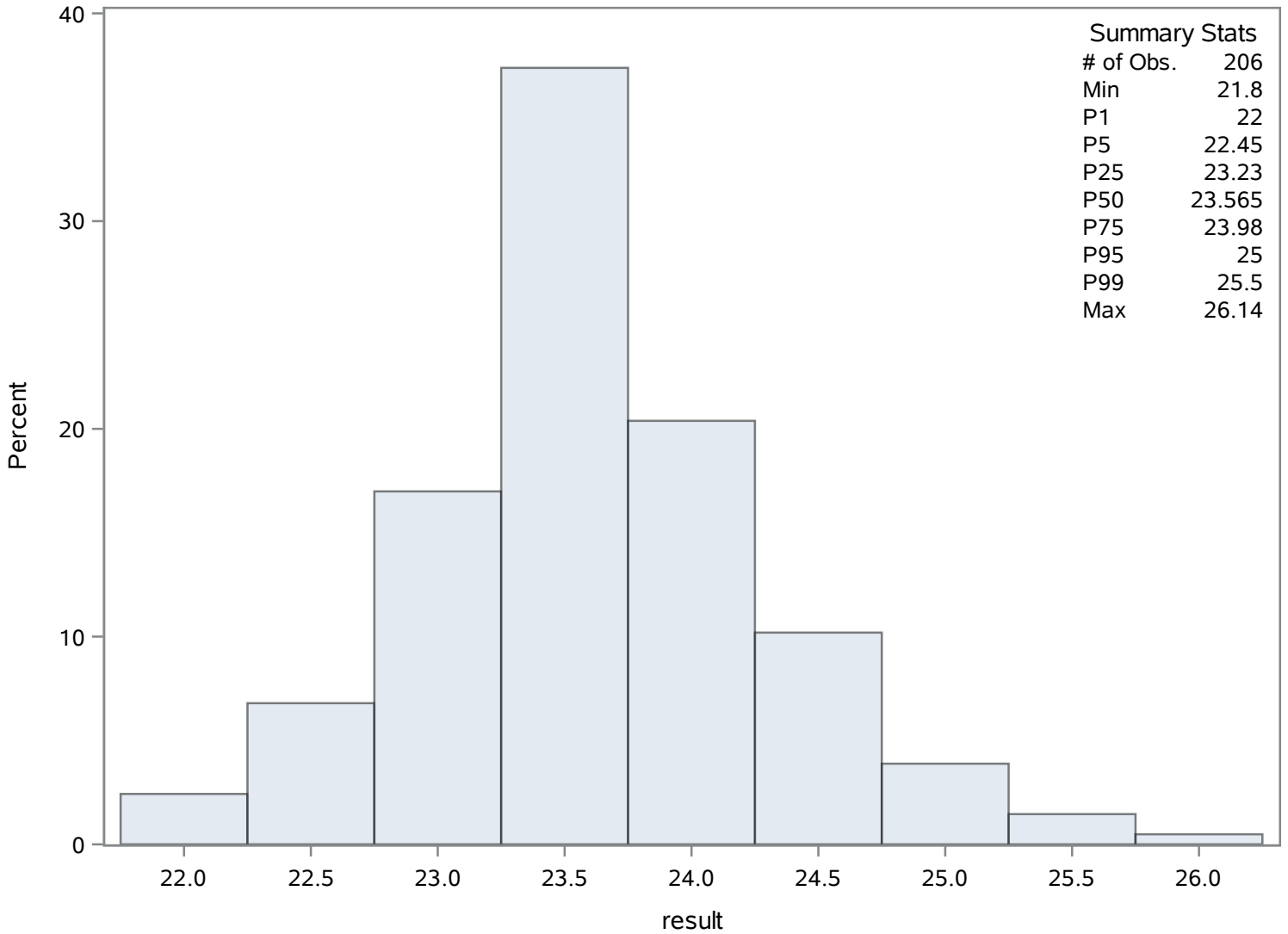
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 1 Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	142	Sum Weights	142
Mean	7.61098592	Sum Observations	1080.76
Std Deviation	0.3629632	Variance	0.13174228
Skewness	-1.3427165	Kurtosis	7.29973855
Uncorrected SS	8244.2248	Corrected SS	18.575662
Coeff Variation	4.76893799	Std Error Mean	0.03045919

Basic Statistical Measures			
Location		Variability	
Mean	7.610986	Std Deviation	0.36296
Median	7.600000	Variance	0.13174
Mode	7.540000	Range	2.92000
		Interquartile Range	0.24000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	249.8748	Pr > t 	<.0001
Sign	M	71	Pr >= M 	<.0001
Signed Rank	S	5076.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.53
99%	8.49
95%	8.15
90%	7.97
75% Q3	7.74
50% Median	7.60
25% Q1	7.50
10%	7.34
5%	6.96
1%	6.44
0% Min	5.61

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.61	1975	8.39	1901
6.44	1965	8.42	1937
6.63	2023	8.48	1895
6.68	1966	8.49	1899
6.73	2010	8.53	1973

Chassahowitzka River - Fixed Station

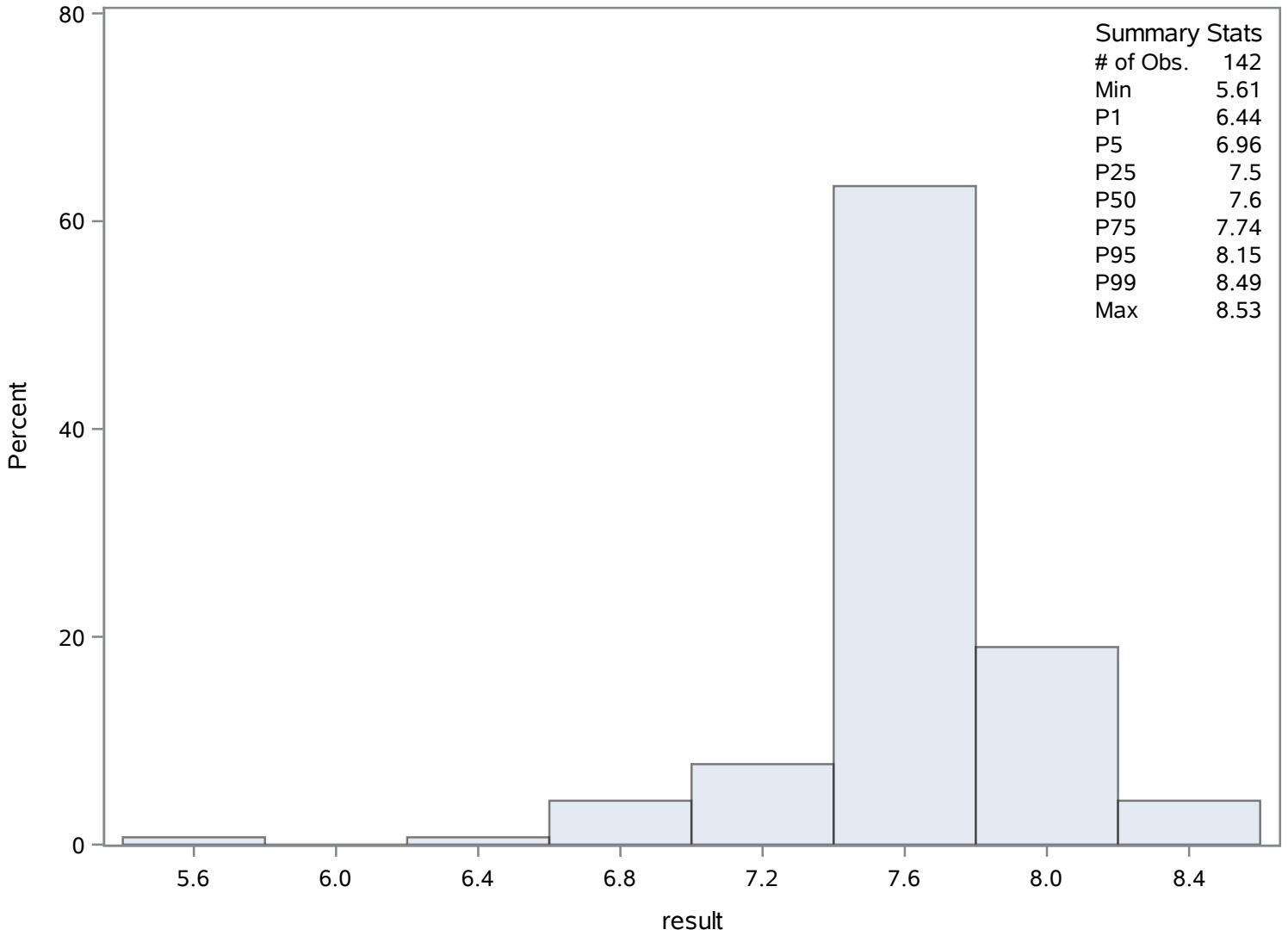
Source: Inactive

Chassahowitzka Citrus 1

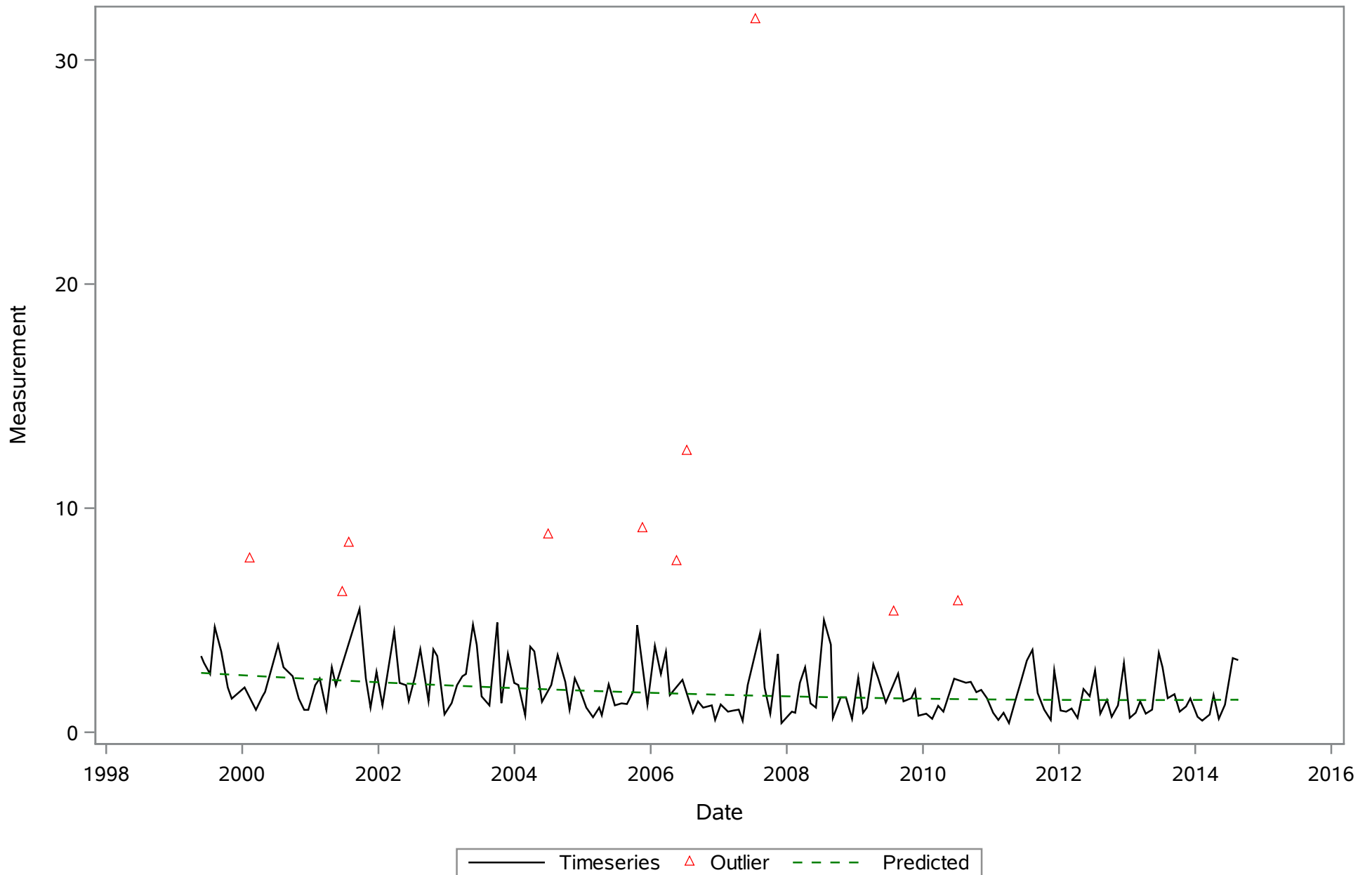
pH (Total) SU

The UNIVARIATE Procedure

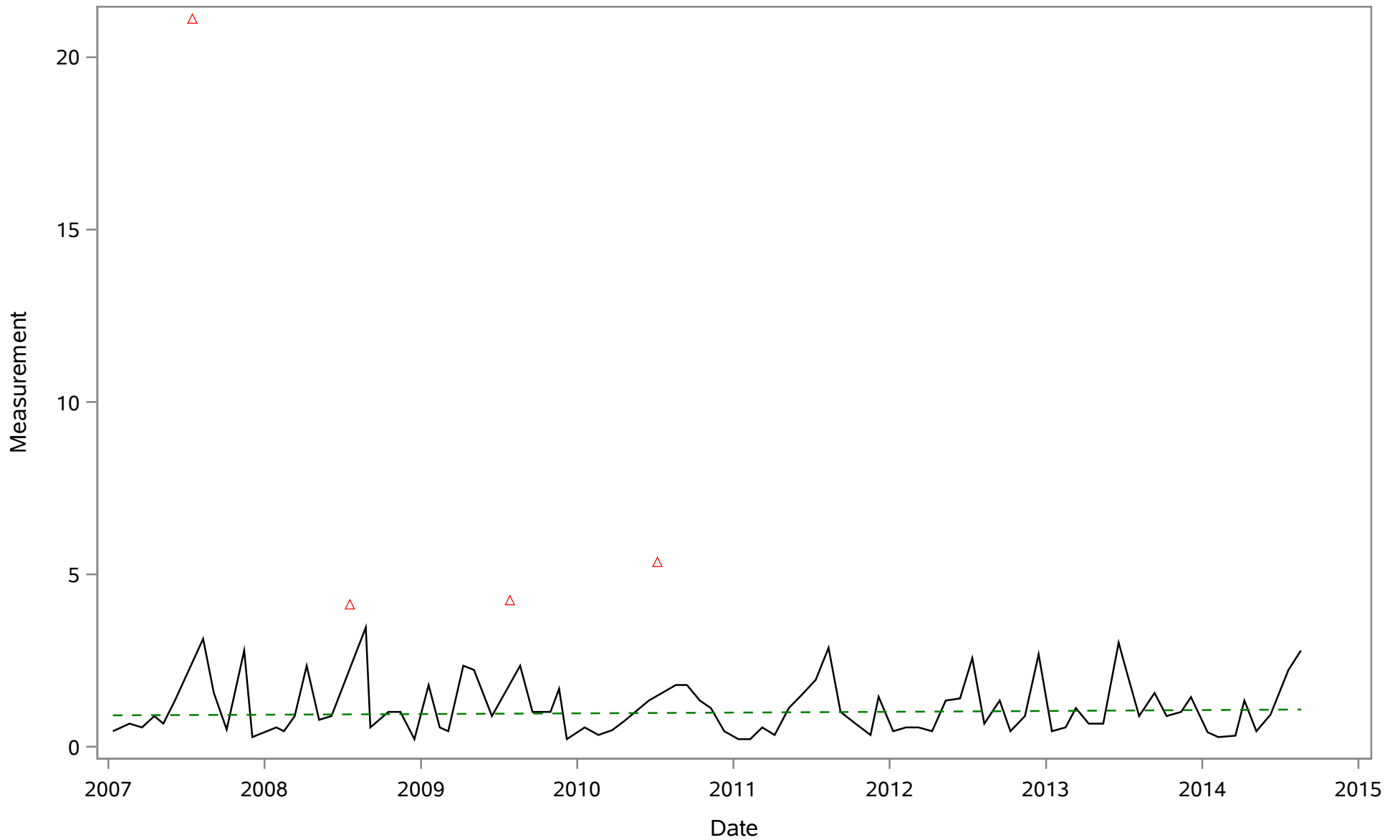
Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Chlorophyll (Total) ug/L

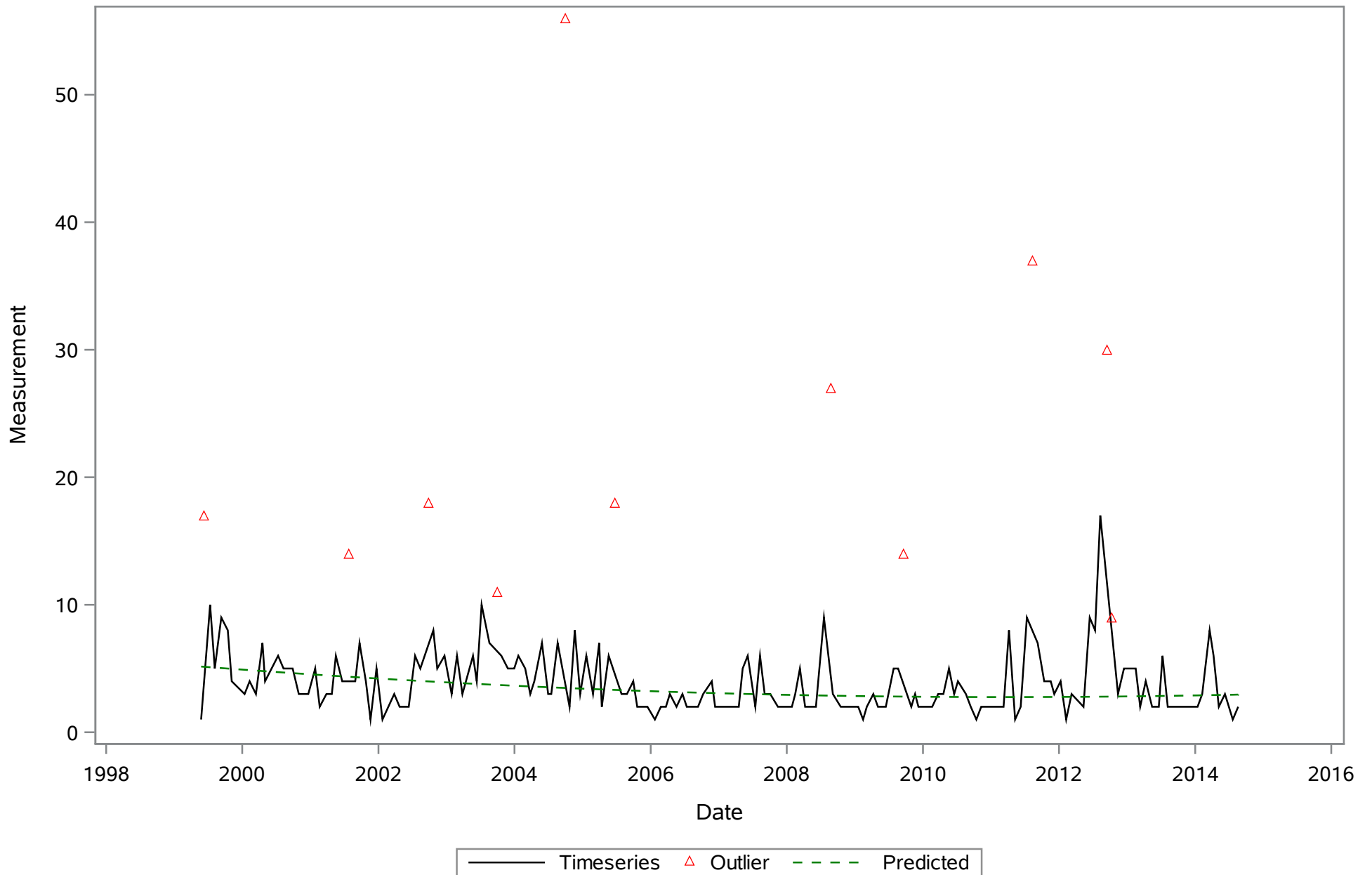


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Chlorophyll a (Total) ug/L

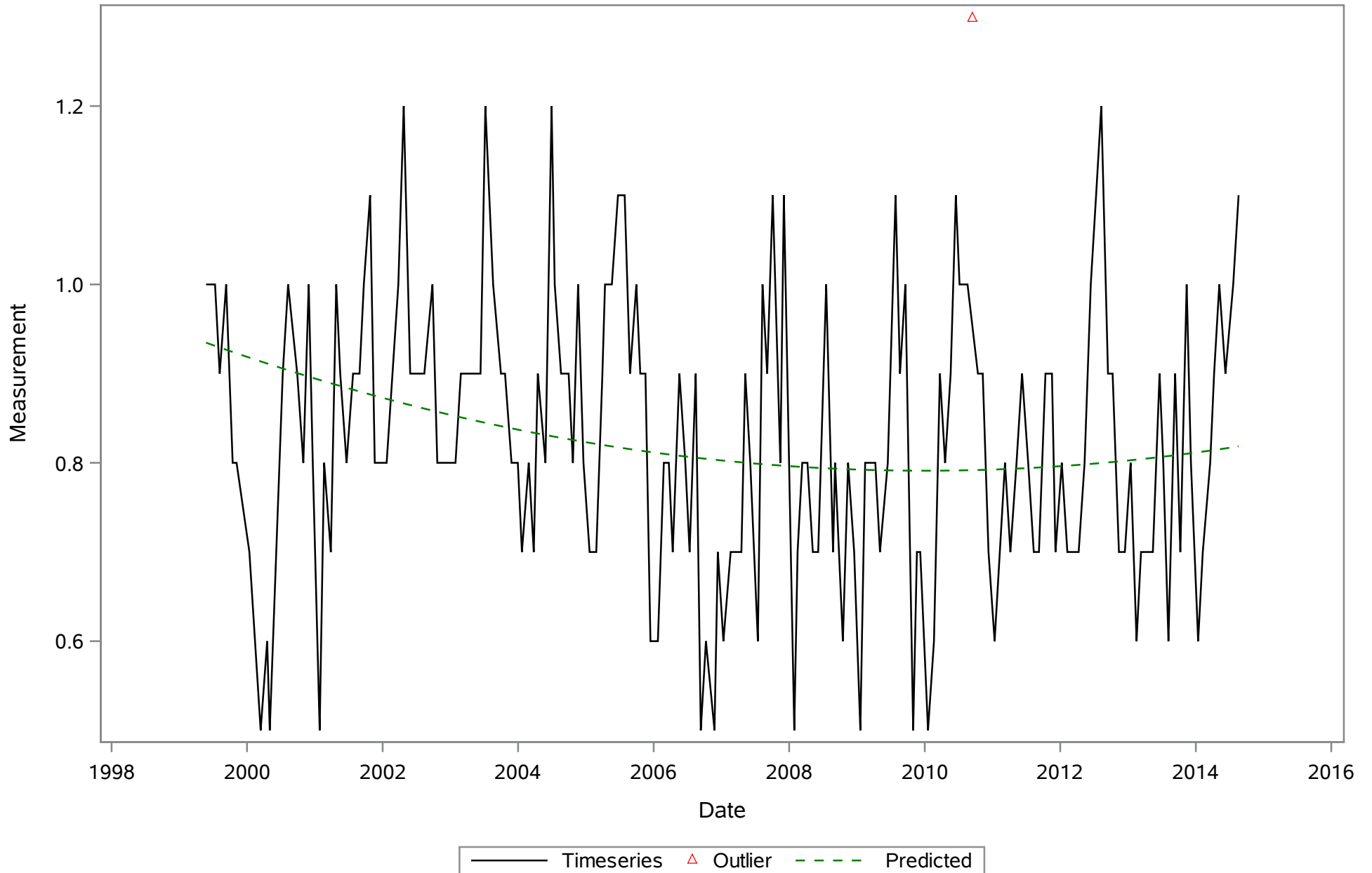


— Timeseries △ Outlier - - - Predicted

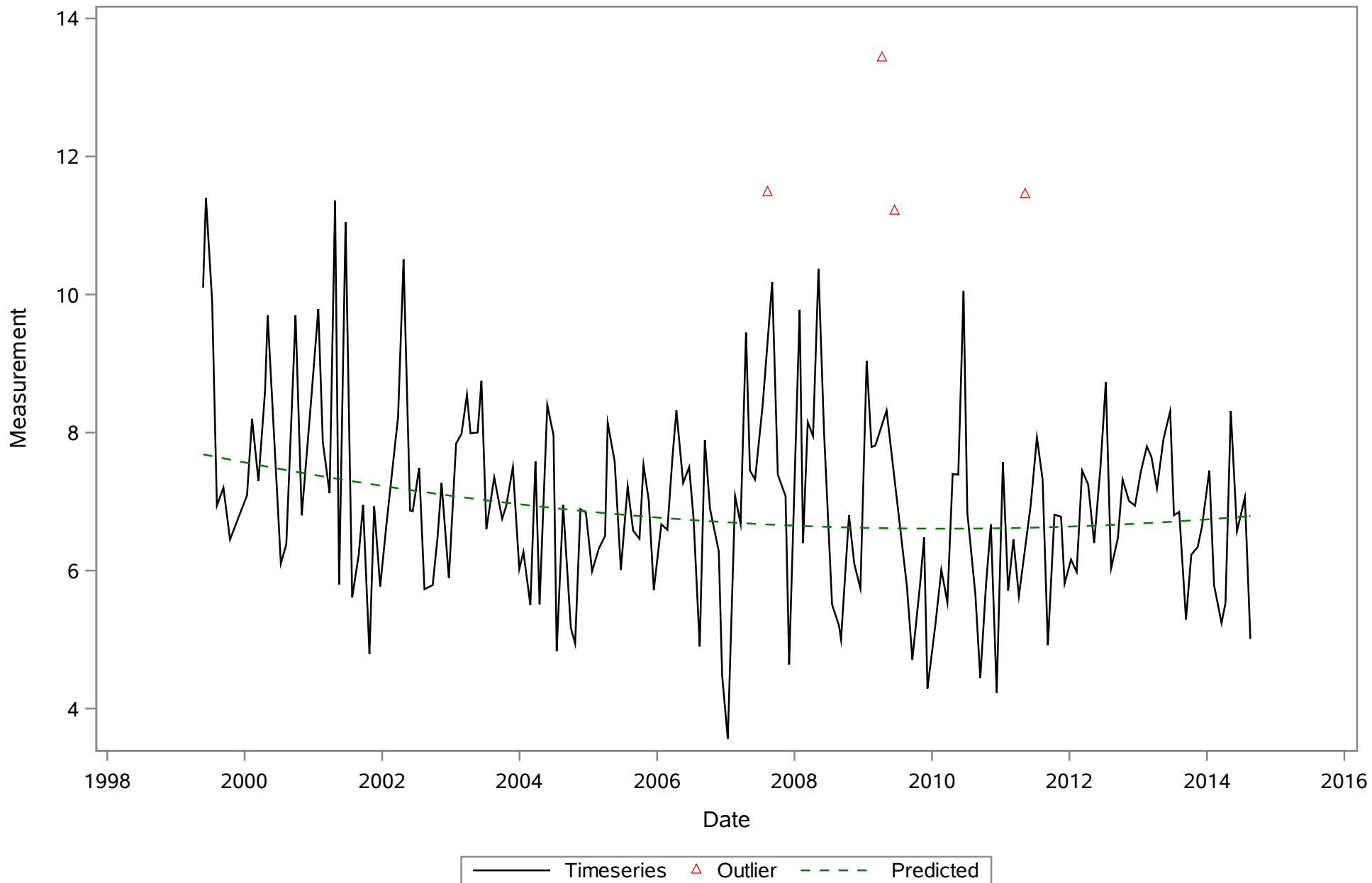
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Color (Total) PCU



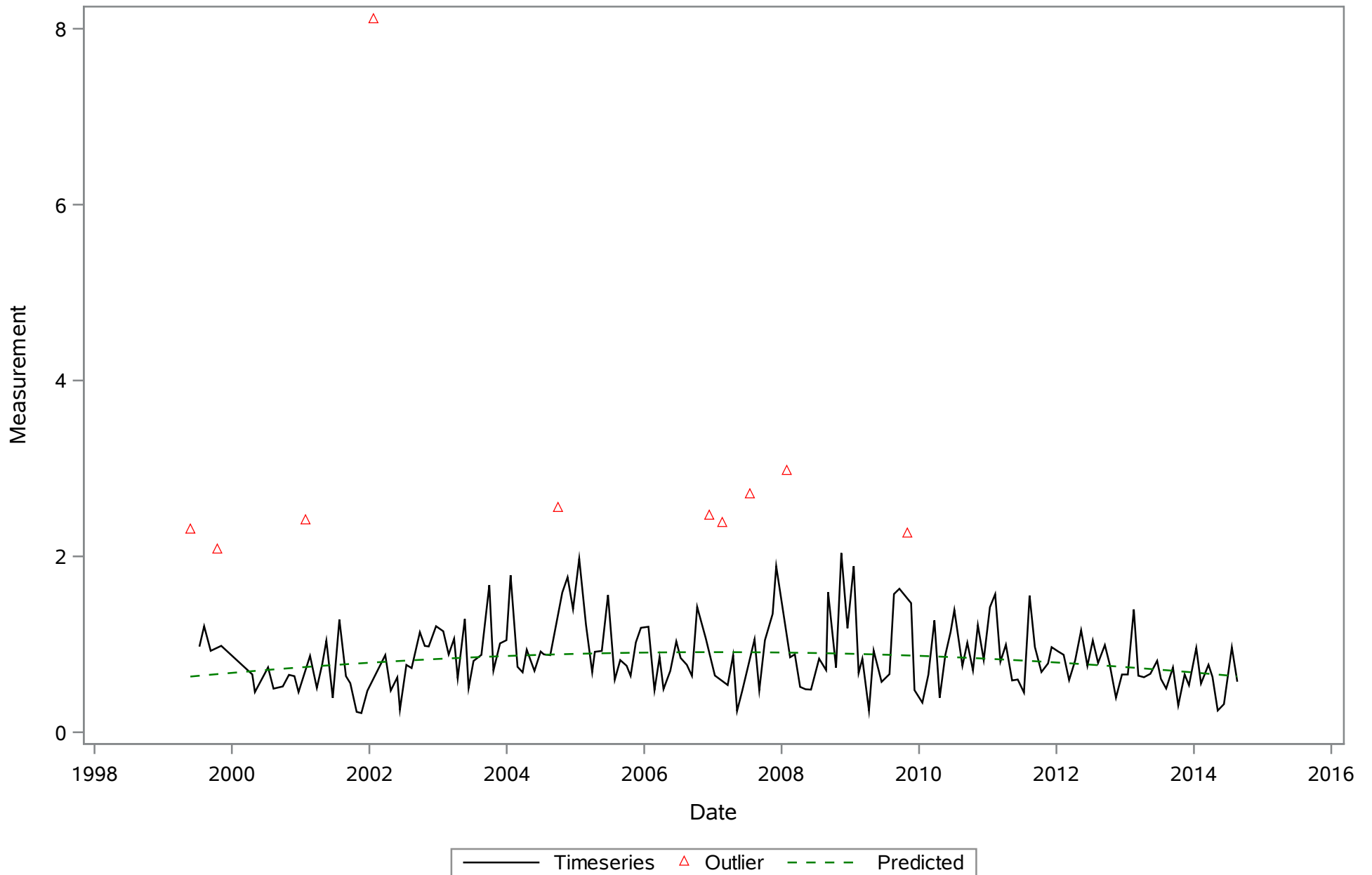
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Depth (Total) Meters



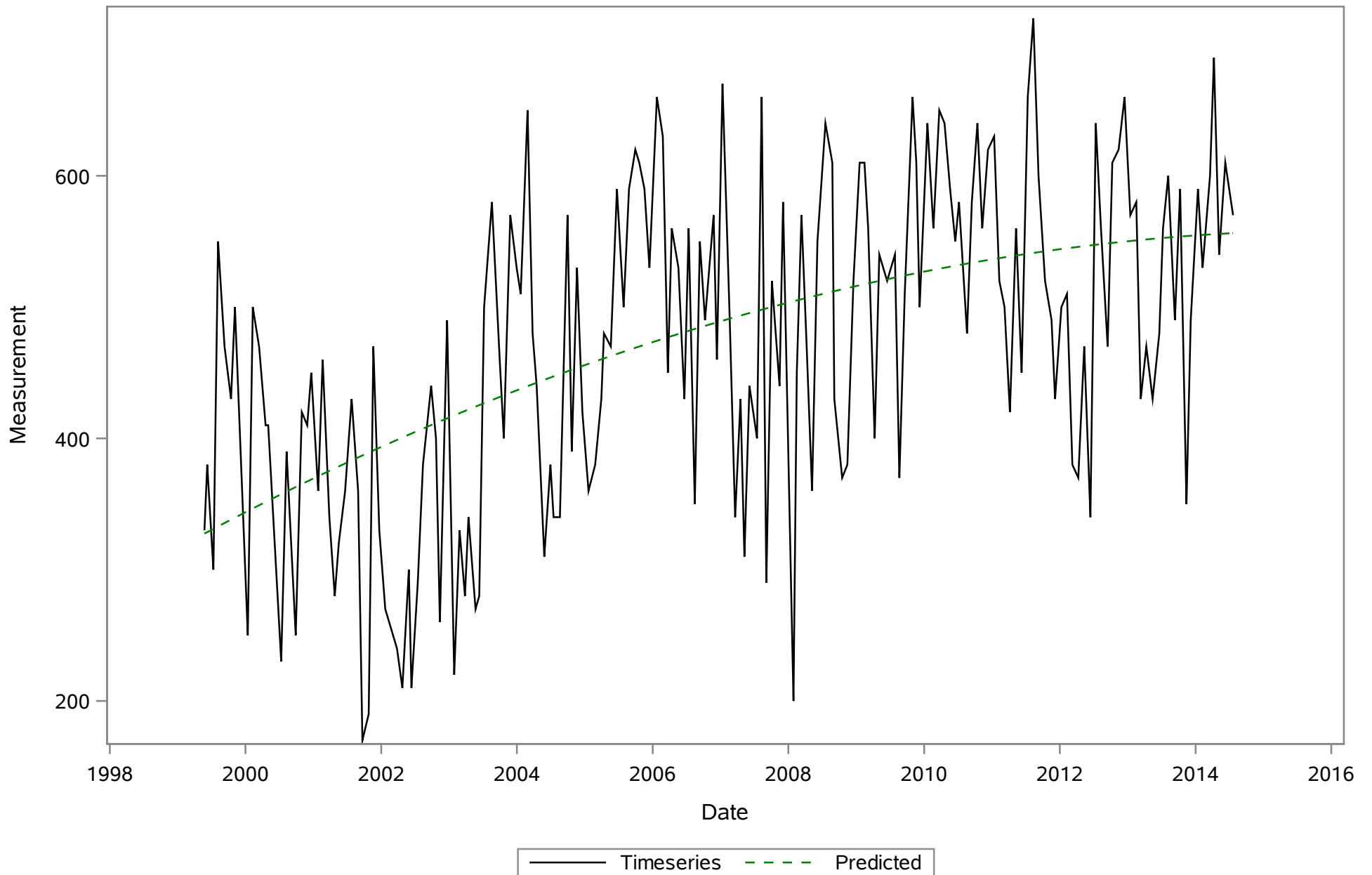
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L



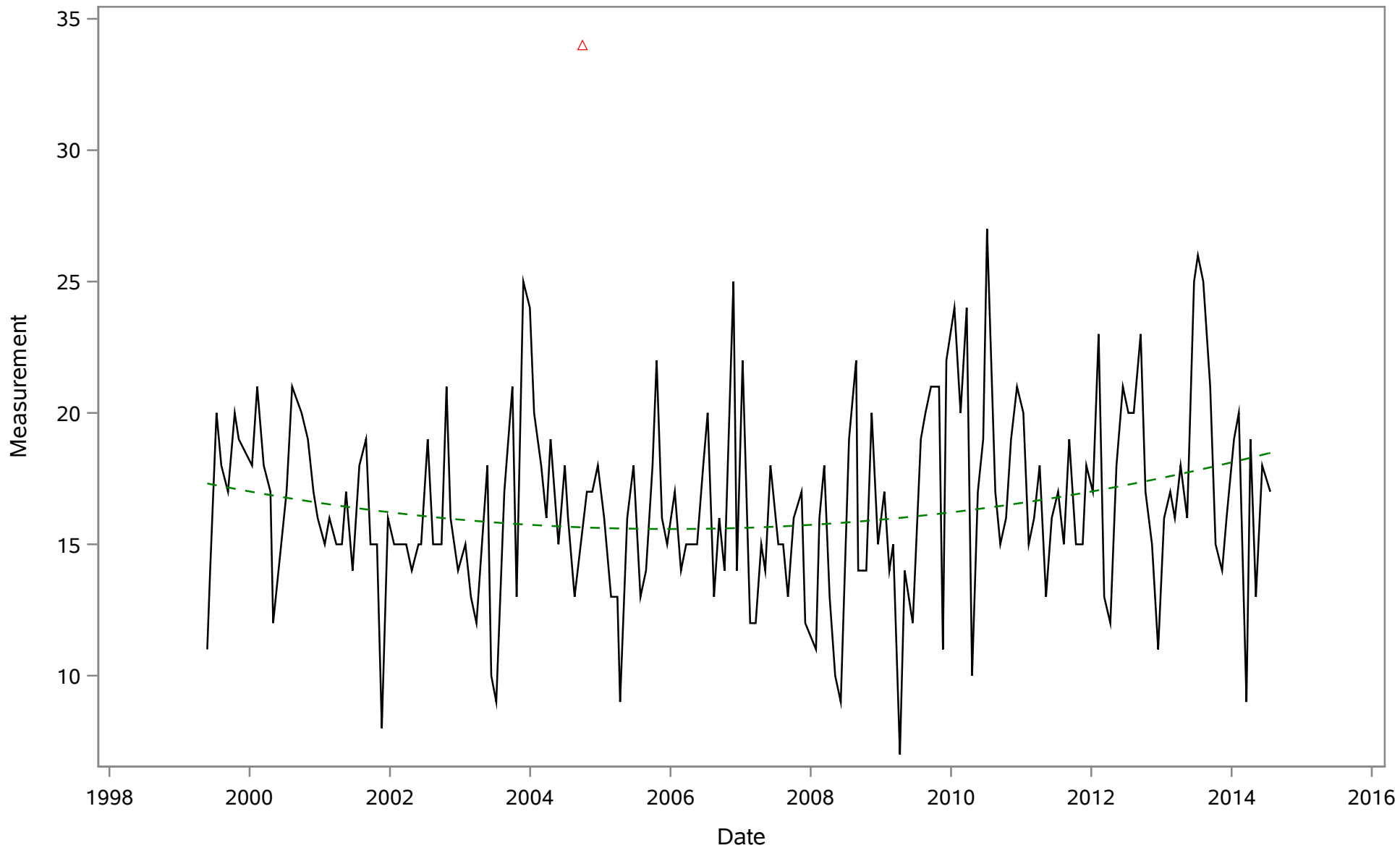
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L

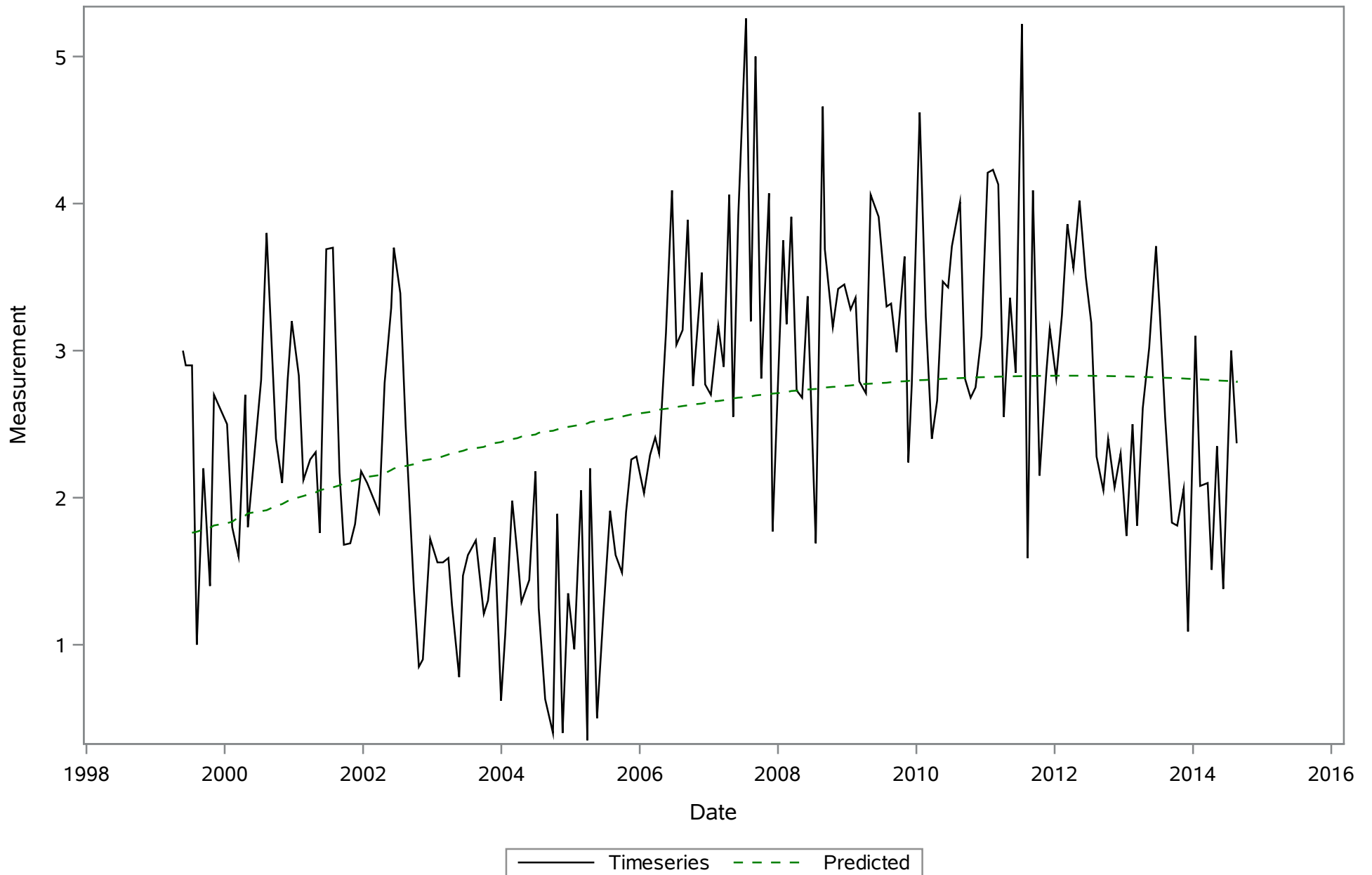


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L

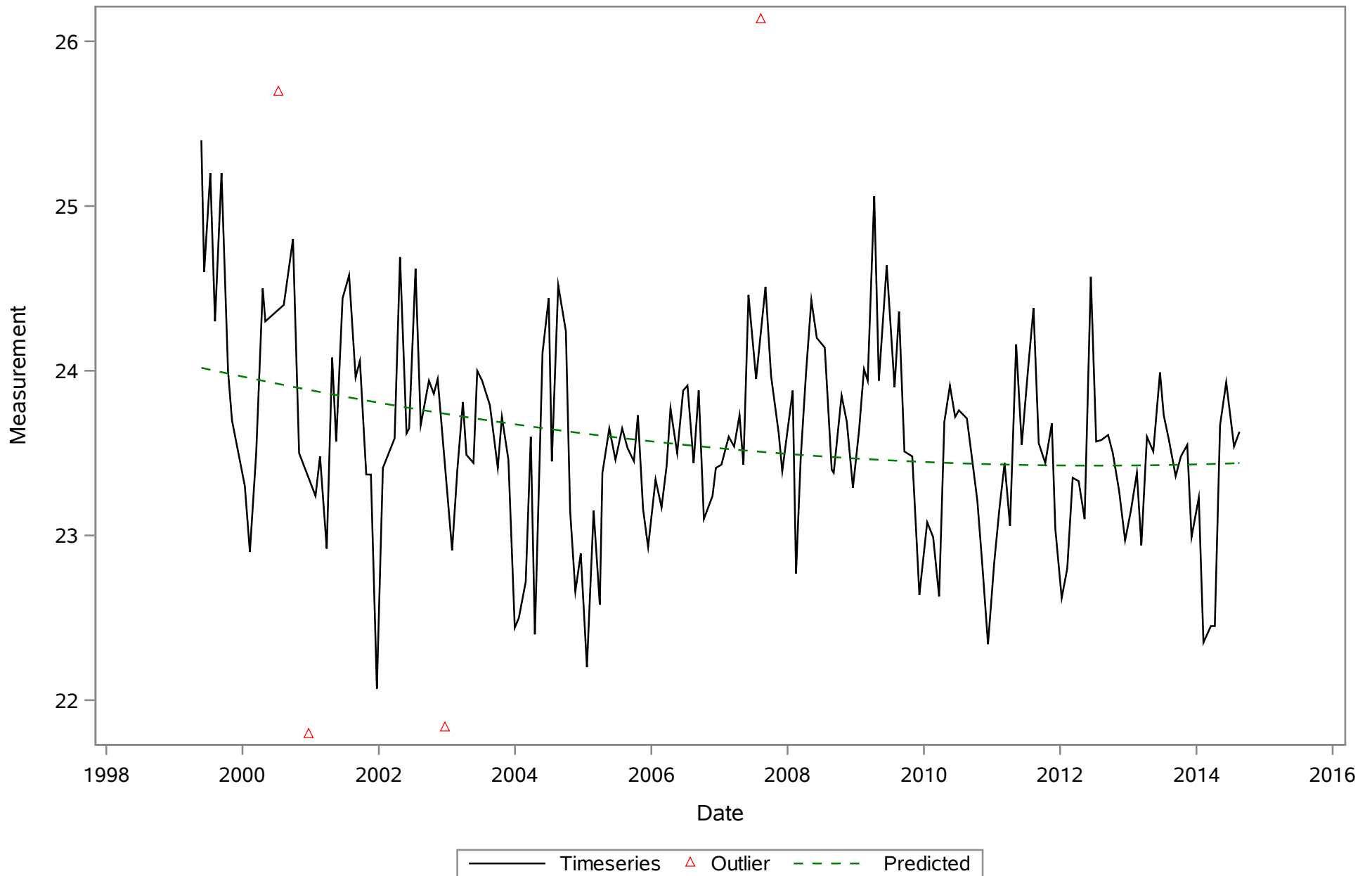


— Timeseries △ Outlier - - - Predicted

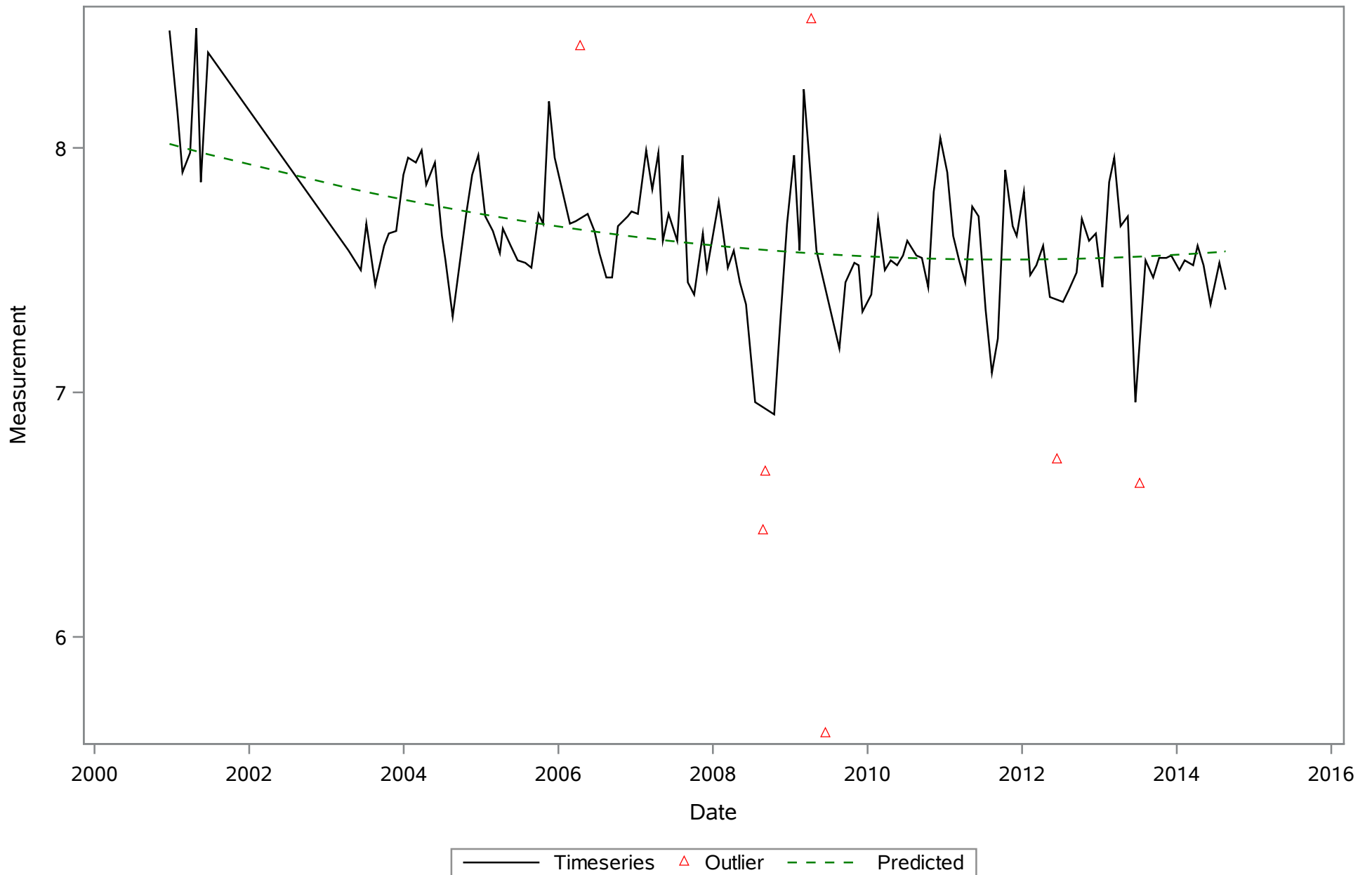
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Salinity (Total) ppt



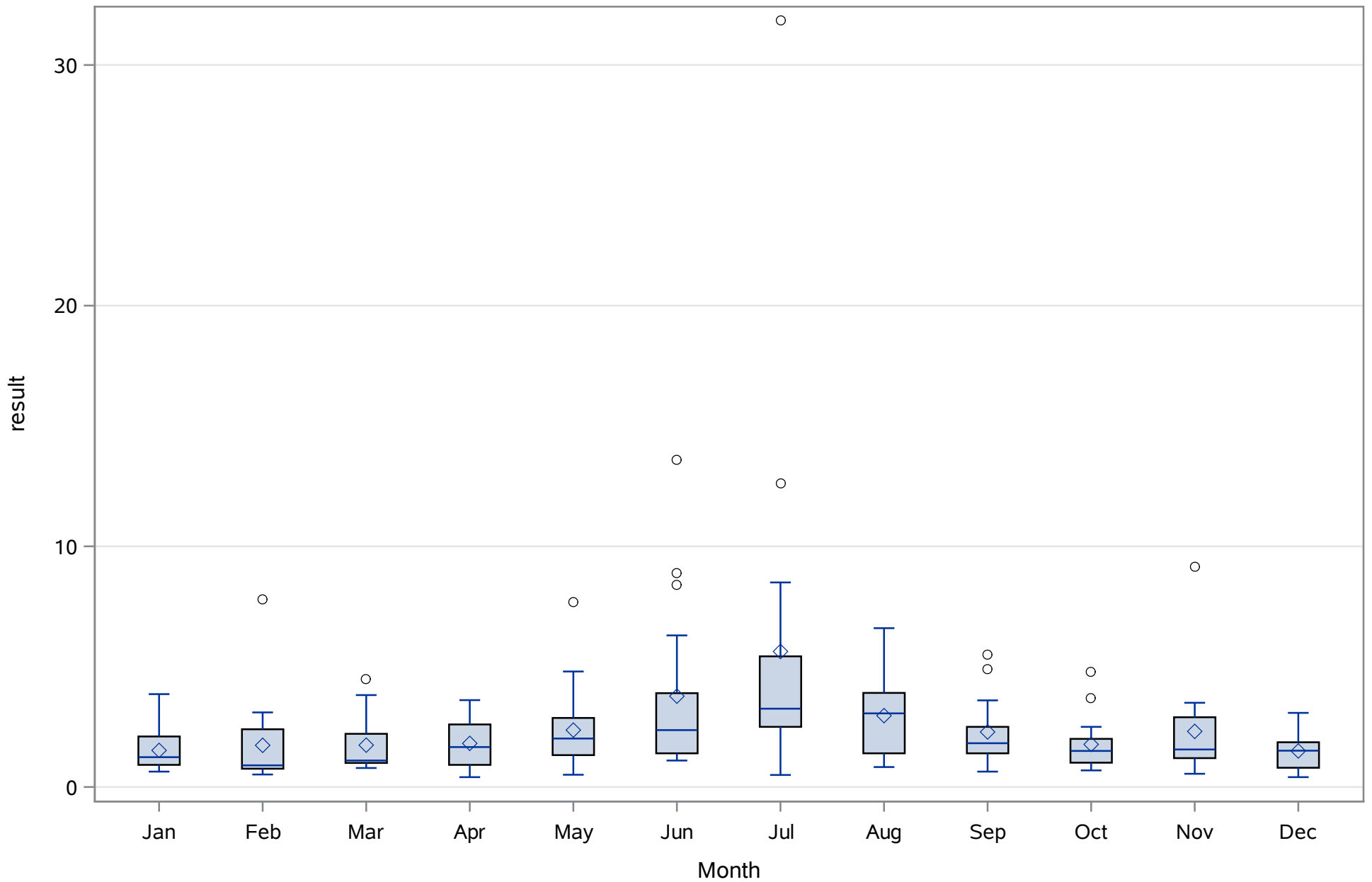
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Temperature (Total) Deg. C



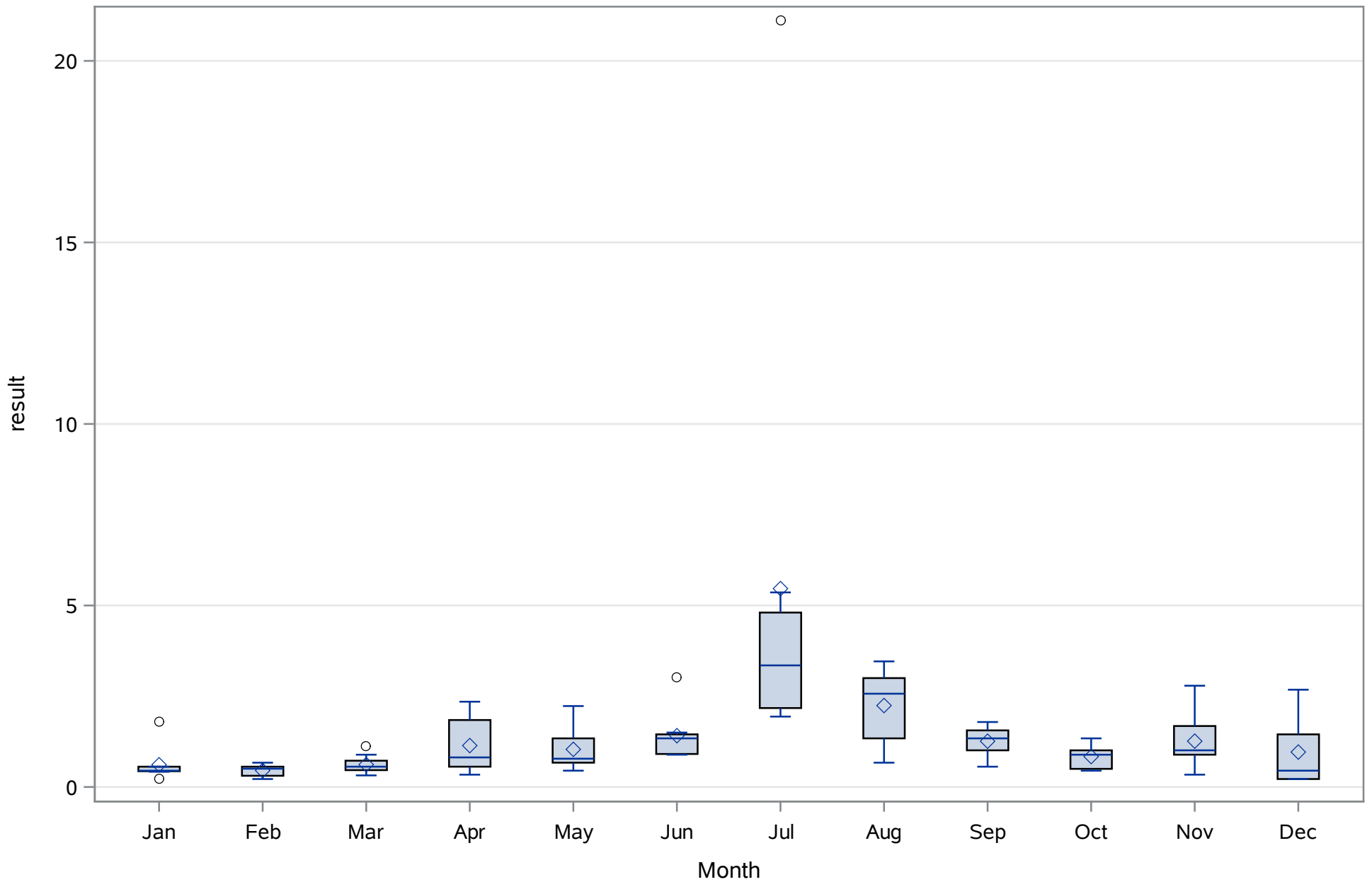
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
pH (Total) SU



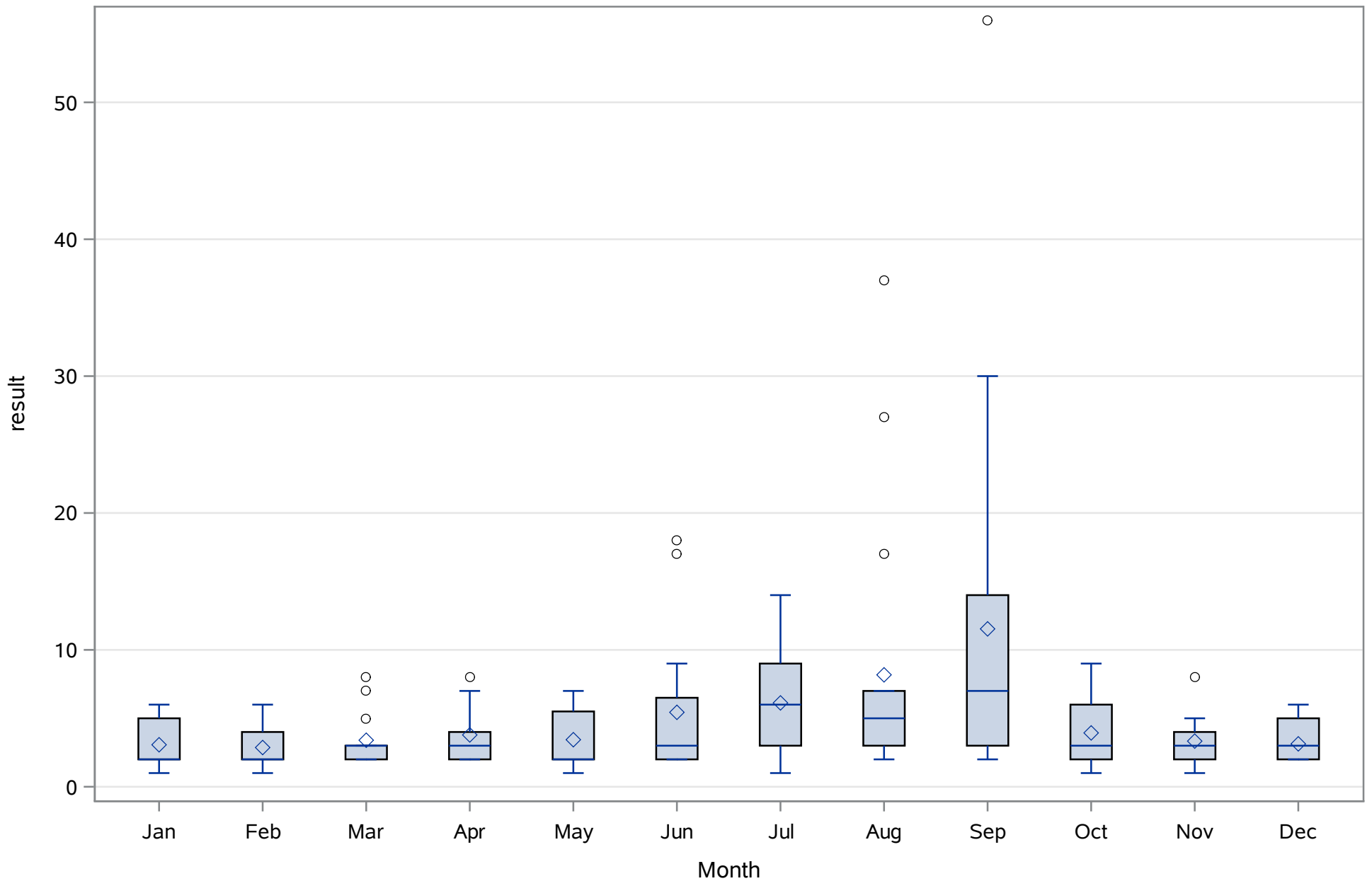
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Chlorophyll (Total) ug/L



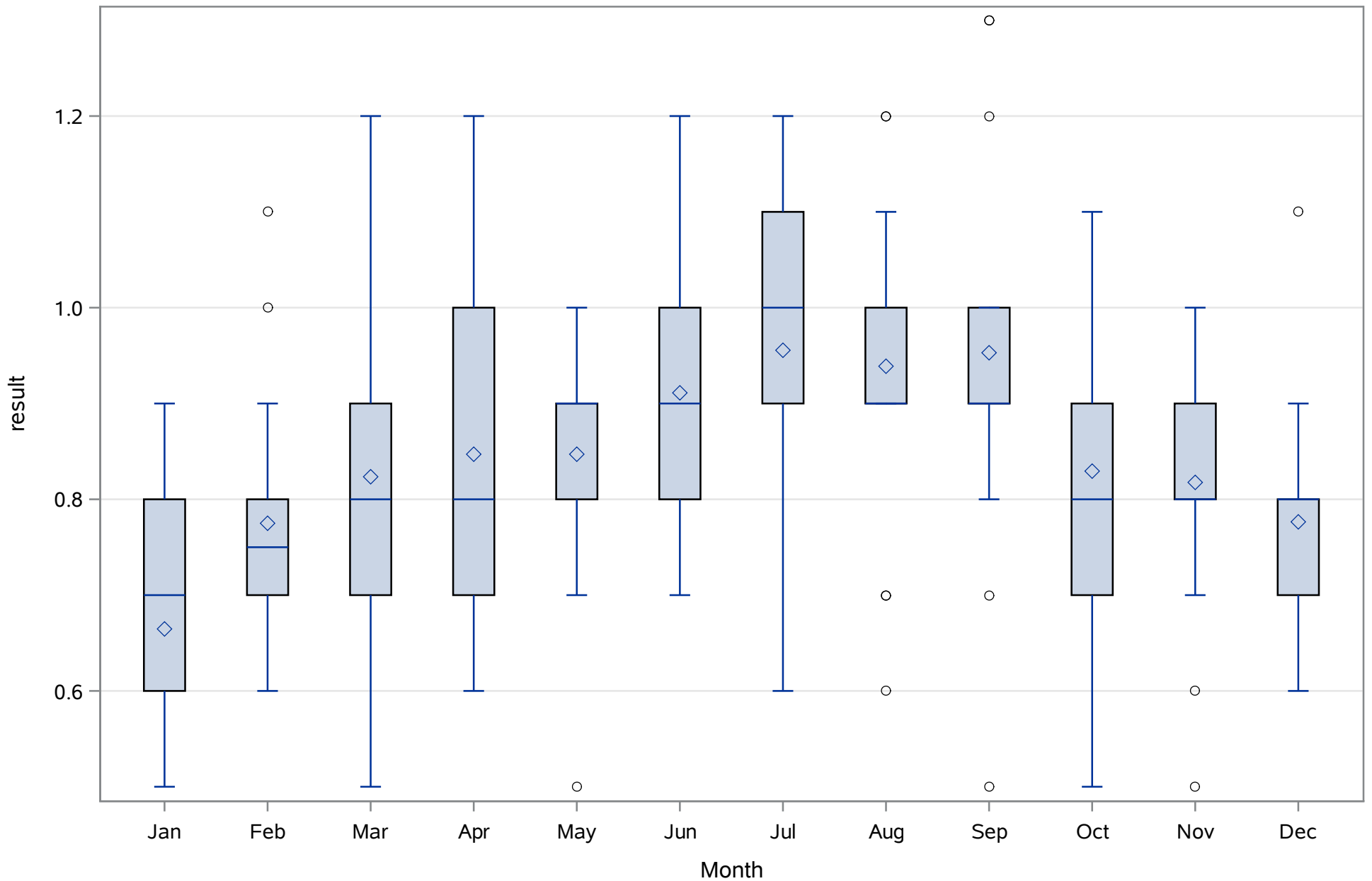
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Chlorophyll a (Total) ug/L



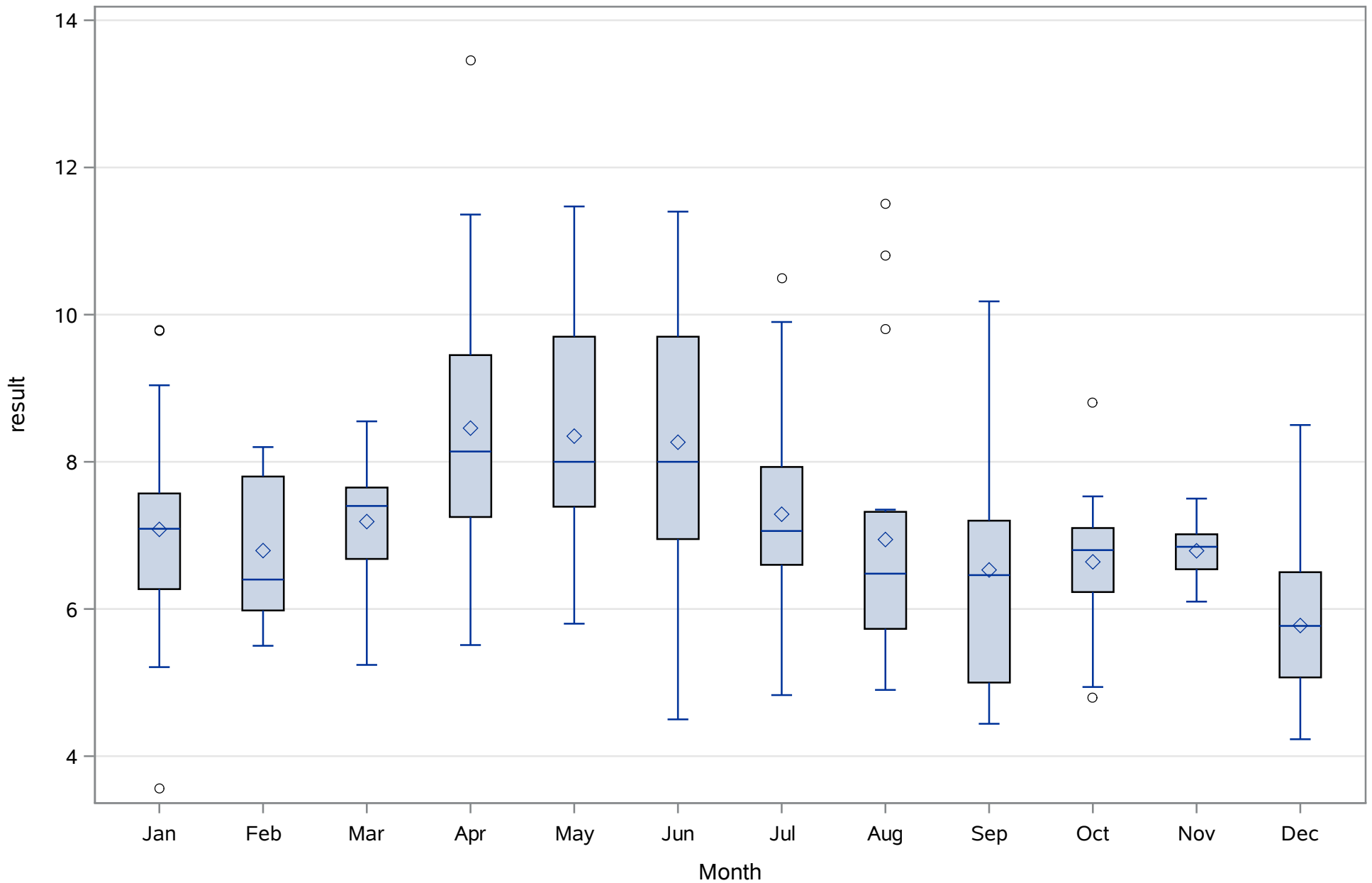
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Color (Total) PCU



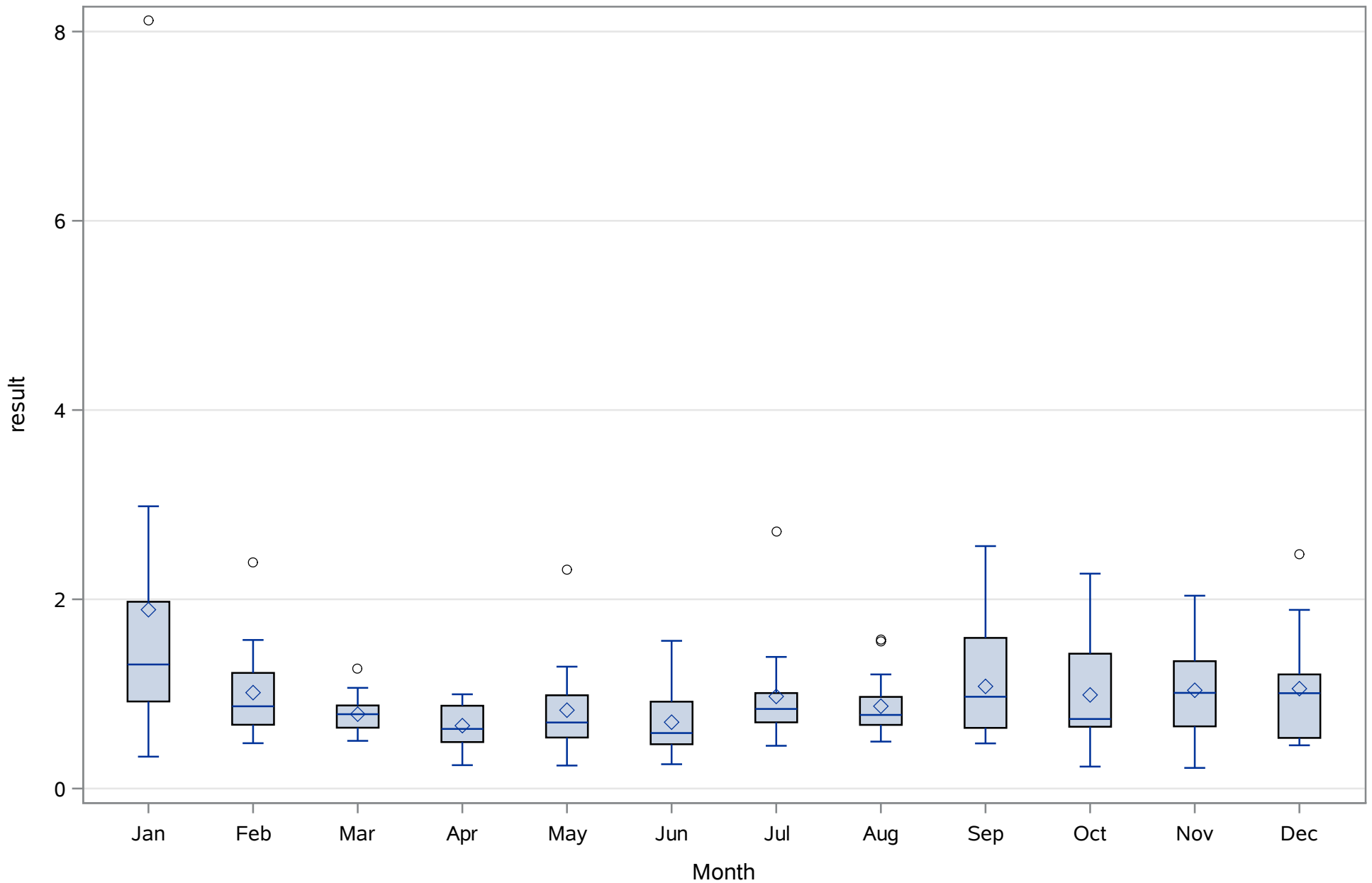
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Depth (Total) Meters



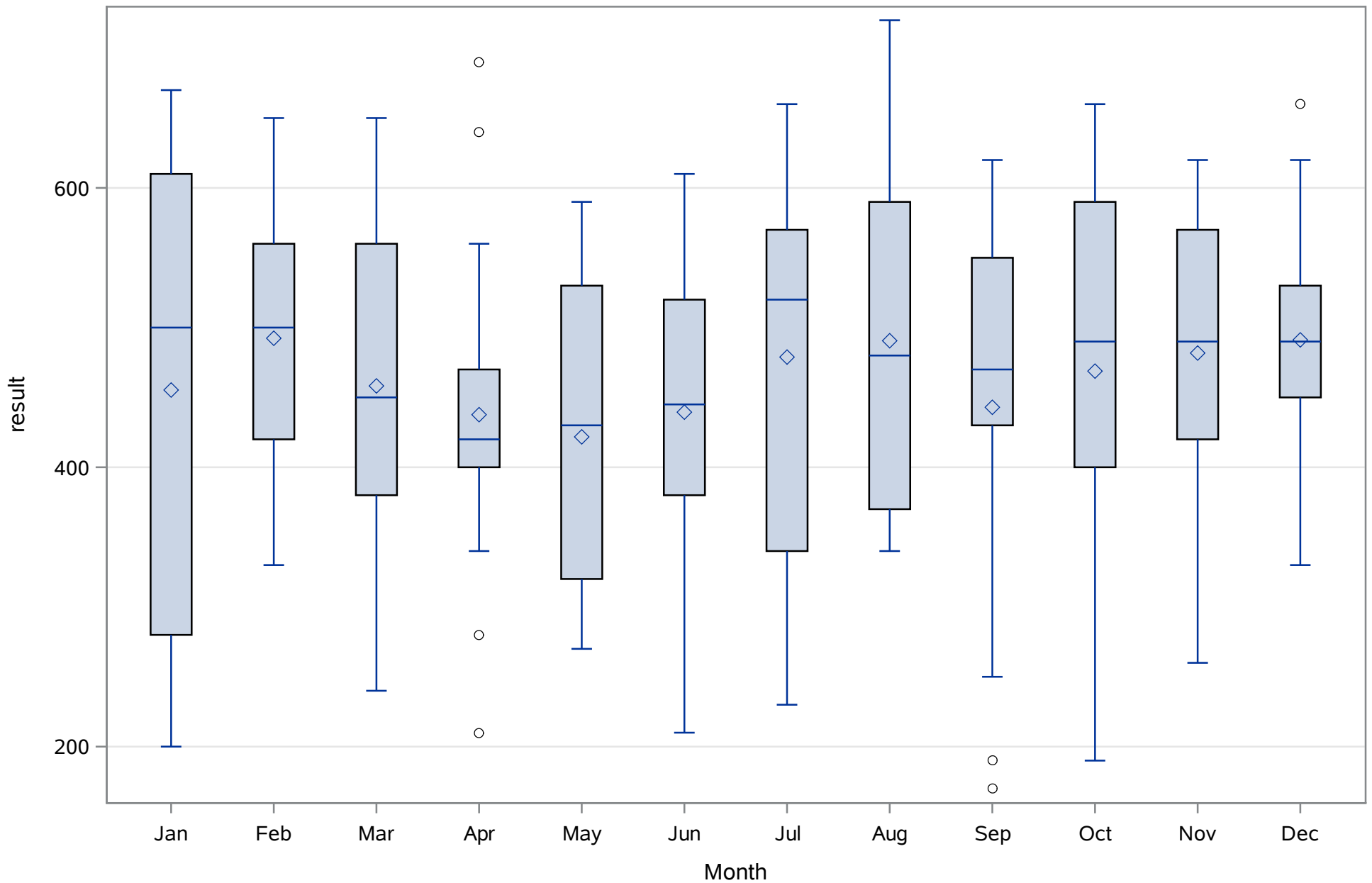
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Dissolved Oxygen (Total) mg/L



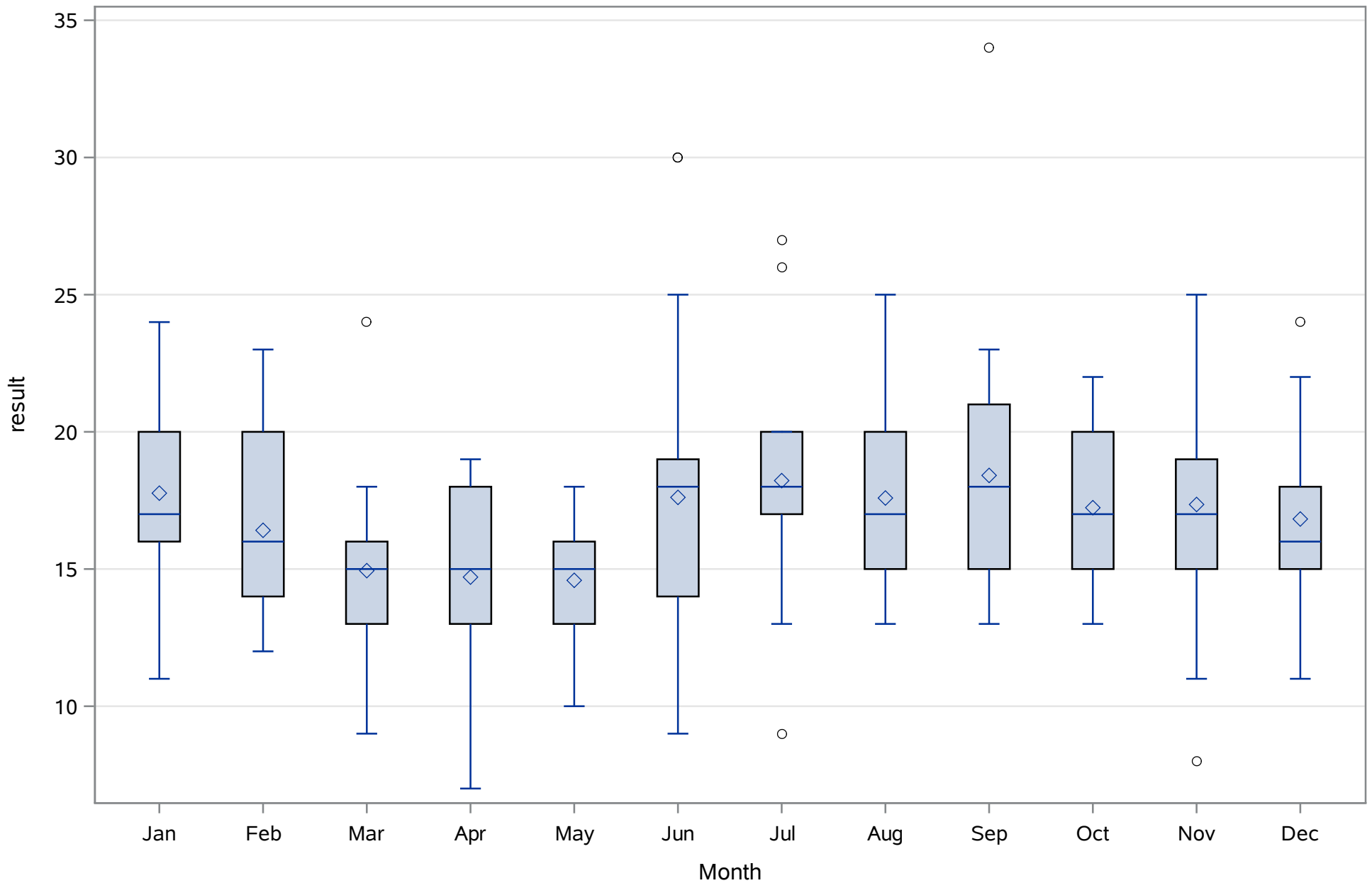
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Light, Attenuation Coefficient Kd/m



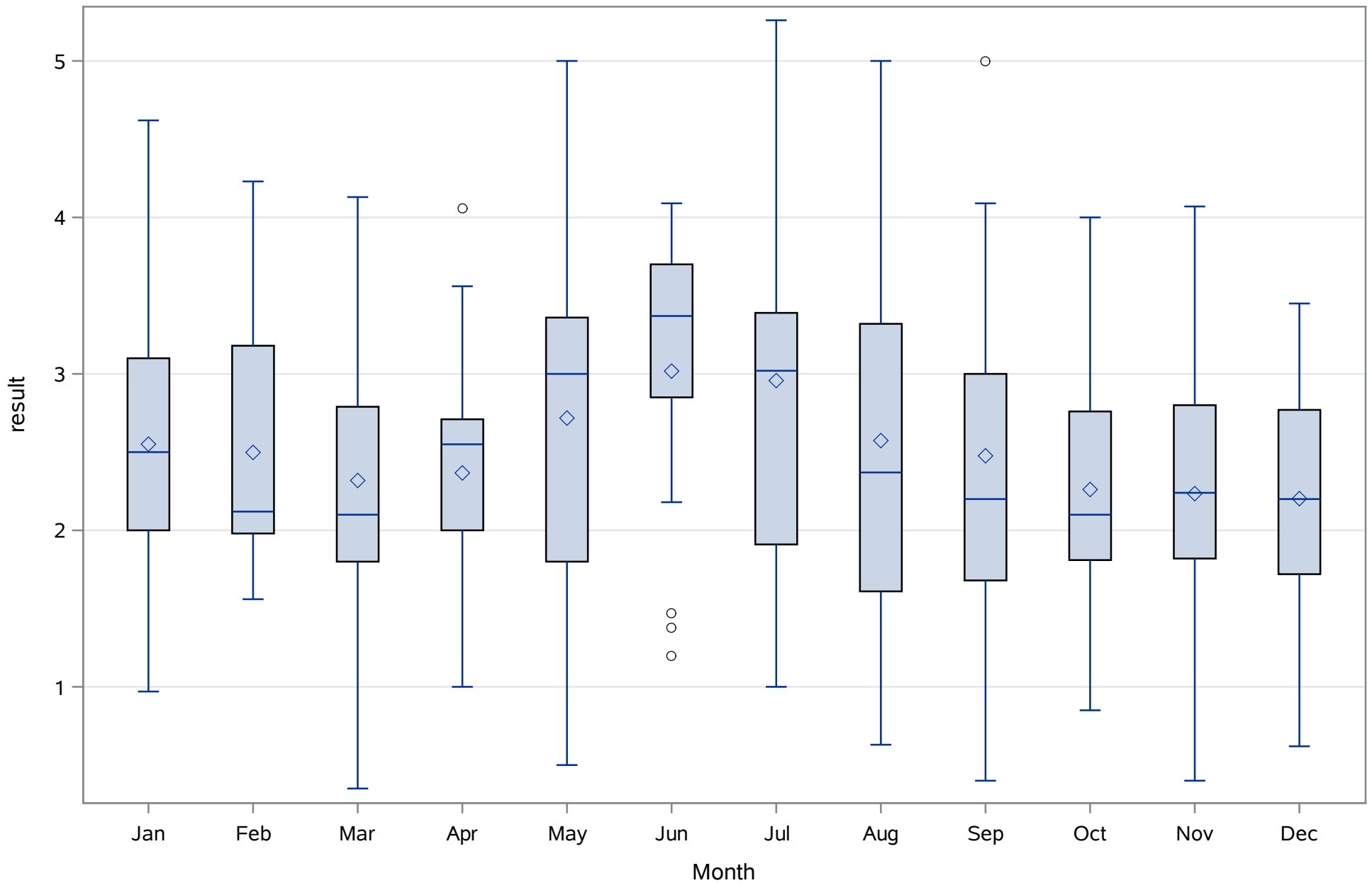
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Nitrogen- Total (Total) ug/L



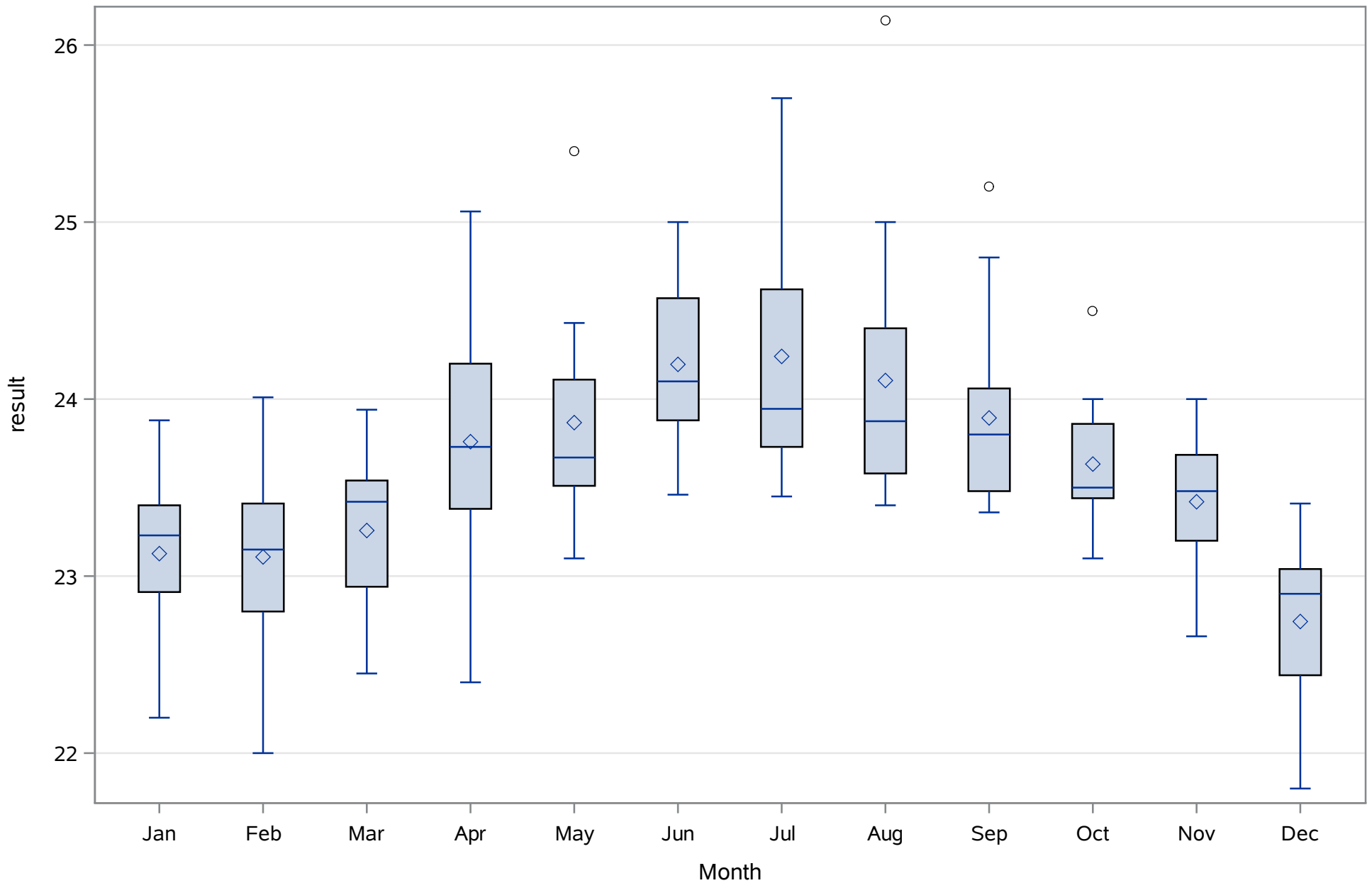
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Phosphorus- Total (Total) ug/L



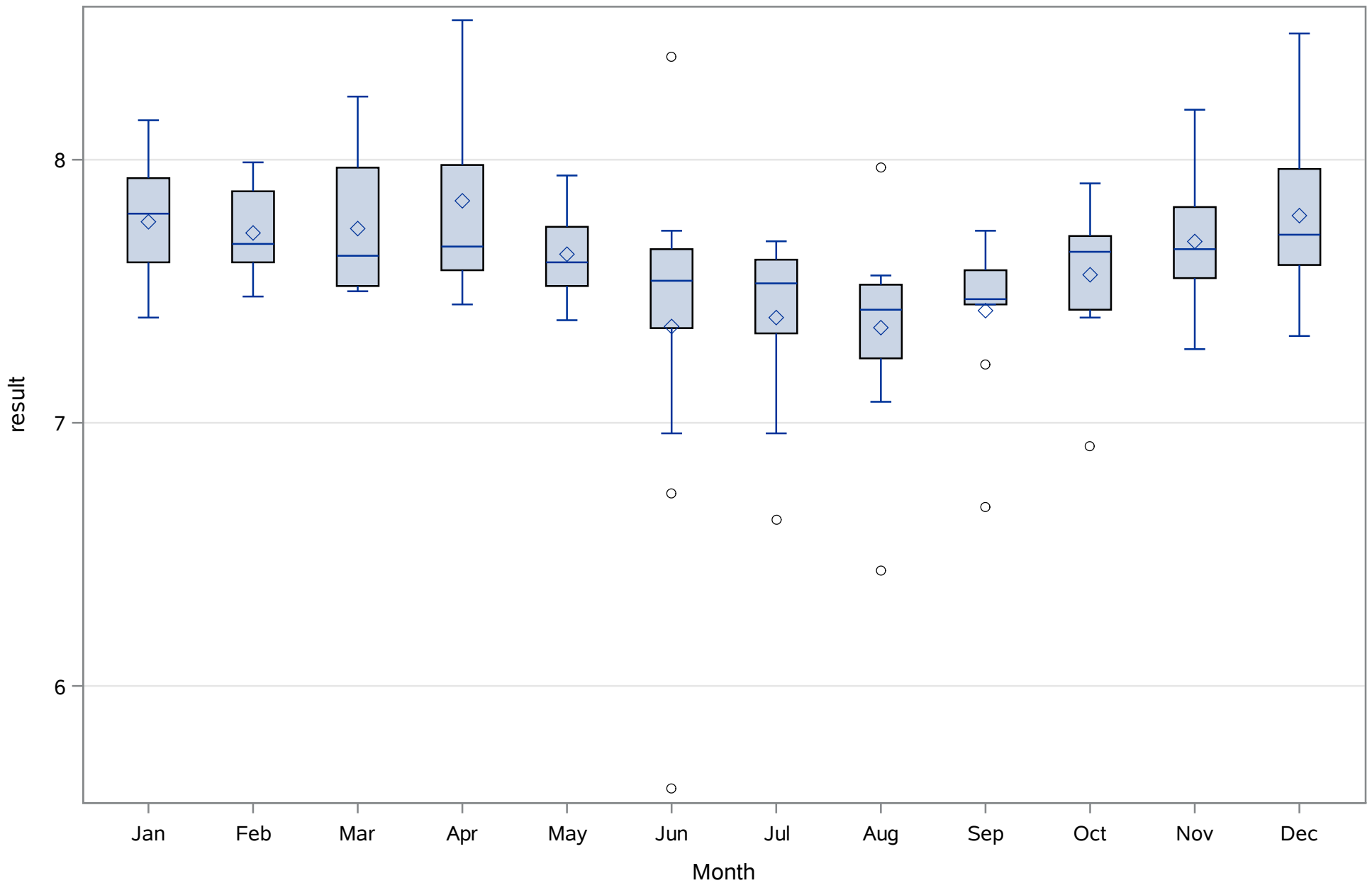
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Salinity (Total) ppt



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 1
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Main 4

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Bromide (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Coliform Total (Total)	cfu/100 mL	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Magnesium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Nitrite (N) (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Nitrogen- Total (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Silica- Dissolved (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Strontium (Total)	ug/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Chlorophyll (Total)	ug/L	JUN1997	AUG2014	205	7.3%	2.0%	2.4%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	9.9%	0.0%	1.1%
Color (Total)	PCU	MAY1999	AUG2014	183	5.5%	0.5%	3.3%
Depth (Total)	Meters	JUN1997	AUG2014	207	0.5%	1.9%	1.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	AUG2014	204	0.0%	2.0%	0.5%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	179	3.4%	1.1%	0.6%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	1.5%	1.9%	1.0%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	1.5%	1.9%	1.0%
Salinity (Total)	ppth	AUG1997	AUG2014	207	5.3%	1.0%	1.4%
Secchi-vertical (Total)	Meters	JUN1997	AUG2014	123	0.8%	1.6%	0.0%
Temperature (Total)	Deg. C	JUN1997	AUG2014	206	0.0%	1.9%	0.0%
pH (Total)	SU	DEC2000	AUG2014	142	1.4%	1.4%	0.7%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	9.02268293	Sum Observations	1849.65
Std Deviation	10.8094816	Variance	116.844893
Skewness	3.59630666	Kurtosis	15.8501406
Uncorrected SS	40525.1637	Corrected SS	23836.3582
Coeff Variation	119.803408	Std Error Mean	0.75496695

Basic Statistical Measures			
Location		Variability	
Mean	9.022683	Std Deviation	10.80948
Median	5.820000	Variance	116.84489
Mode	2.440000	Range	73.16000
		Interquartile Range	7.04000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.9511	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	74.40
99%	59.70
95%	29.06
90%	17.79
75% Q3	10.30
50% Median	5.82
25% Q1	3.26
10%	2.20
5%	1.75

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.33
0% Min	1.24

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.24	163	41.80	74
1.30	14	57.40	63
1.33	140	59.70	73
1.33	128	72.95	193
1.46	199	74.40	71

Chassahowitzka River - Fixed Station

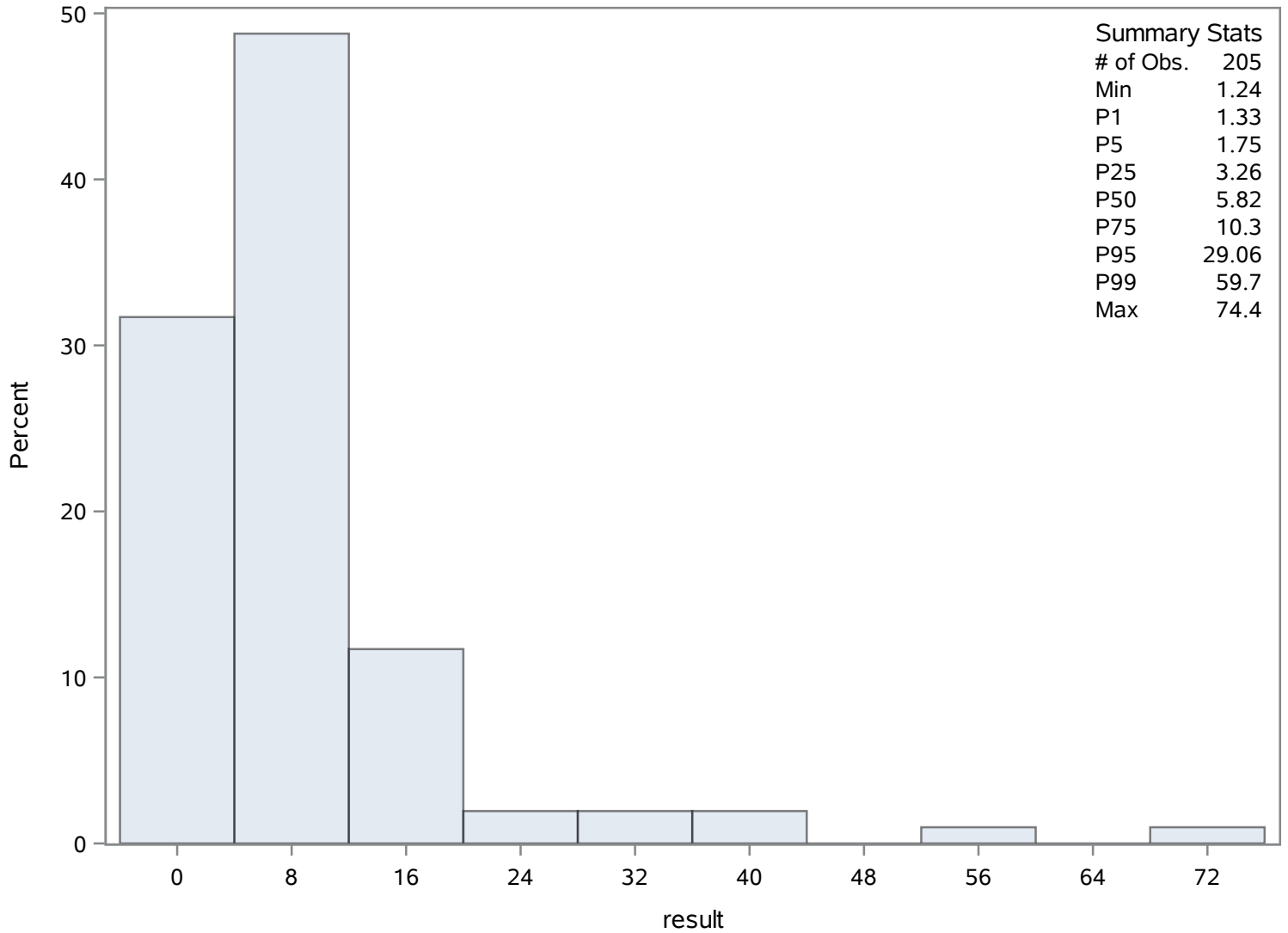
Source: Inactive

Chassahowitzka Citrus 2

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	5.66912088	Sum Observations	515.89
Std Deviation	8.74524984	Variance	76.4793948
Skewness	5.6151346	Kurtosis	41.0809664
Uncorrected SS	9807.7883	Corrected SS	6883.14553
Coeff Variation	154.261128	Std Error Mean	0.91675128

Basic Statistical Measures			
Location		Variability	
Mean	5.669121	Std Deviation	8.74525
Median	3.020000	Variance	76.47939
Mode	1.230000	Range	73.18000
		Interquartile Range	4.47000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.183925	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	73.74
99%	73.74
95%	17.09
90%	13.85
75% Q3	6.03
50% Median	3.02
25% Q1	1.56
10%	1.12
5%	0.78

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.56
0% Min	0.56

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.56	280	17.09	270
0.67	219	17.14	223
0.74	290	17.60	286
0.78	278	26.03	211
0.78	254	73.74	284

Chassahowitzka River - Fixed Station

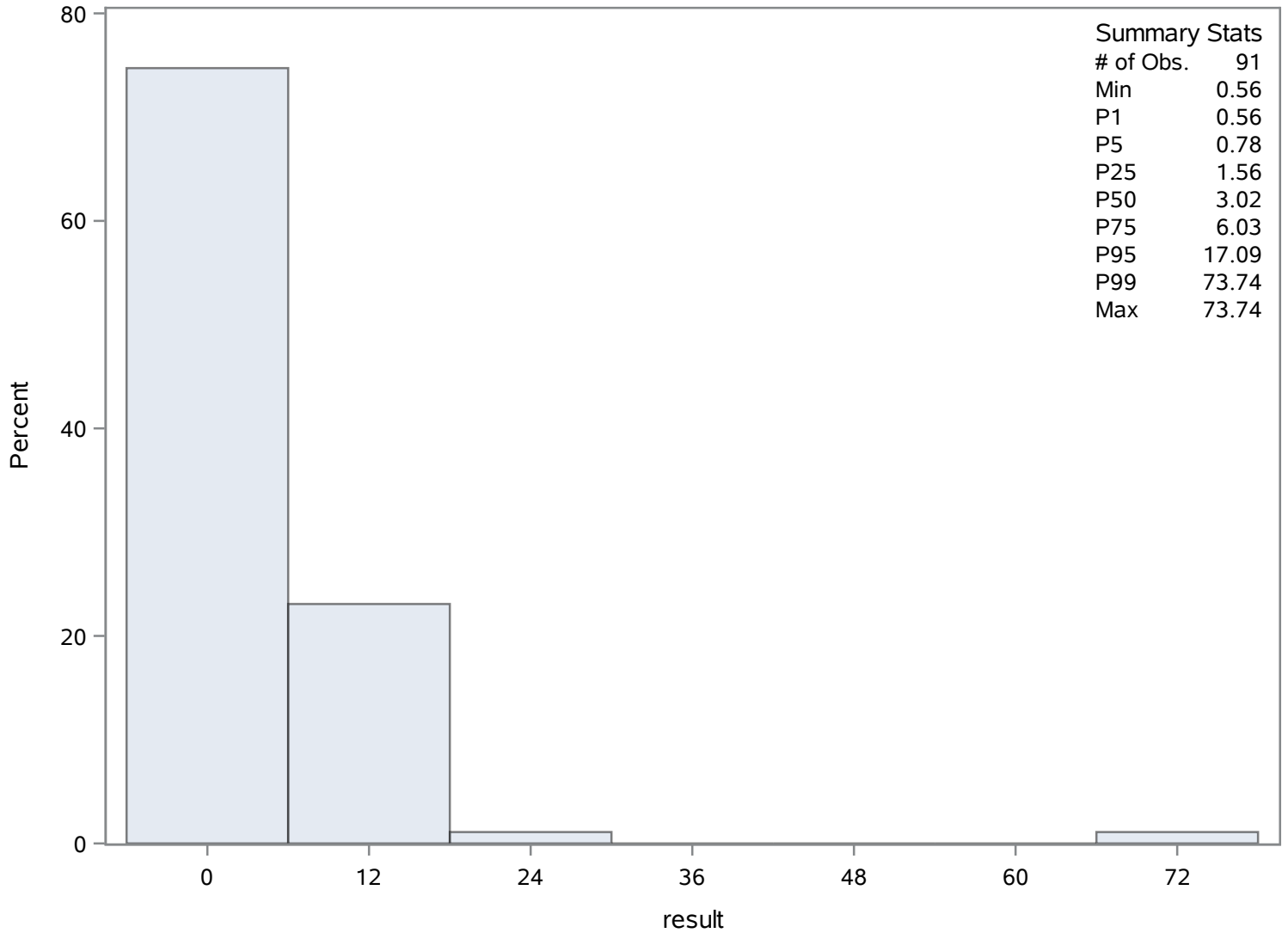
Source: Inactive

Chassahowitzka Citrus 2

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	183	Sum Weights	183
Mean	23.8797814	Sum Observations	4370
Std Deviation	23.2274179	Variance	539.512941
Skewness	3.27852345	Kurtosis	14.0023025
Uncorrected SS	202546	Corrected SS	98191.3552
Coeff Variation	97.2681343	Std Error Mean	1.71702014

Basic Statistical Measures			
Location		Variability	
Mean	23.87978	Std Deviation	23.22742
Median	18.00000	Variance	539.51294
Mode	7.00000	Range	171.00000
		Interquartile Range	18.00000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.90769	Pr > t 	<.0001
Sign	M	91.5	Pr >= M 	<.0001
Signed Rank	S	8418	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	175
99%	126
95%	57
90%	45
75% Q3	28
50% Median	18
25% Q1	10
10%	7
5%	7

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	4
0% Min	4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	436	97	455
4	390	107	408
4	389	122	361
4	330	126	324
5	435	175	443

Chassahowitzka River - Fixed Station

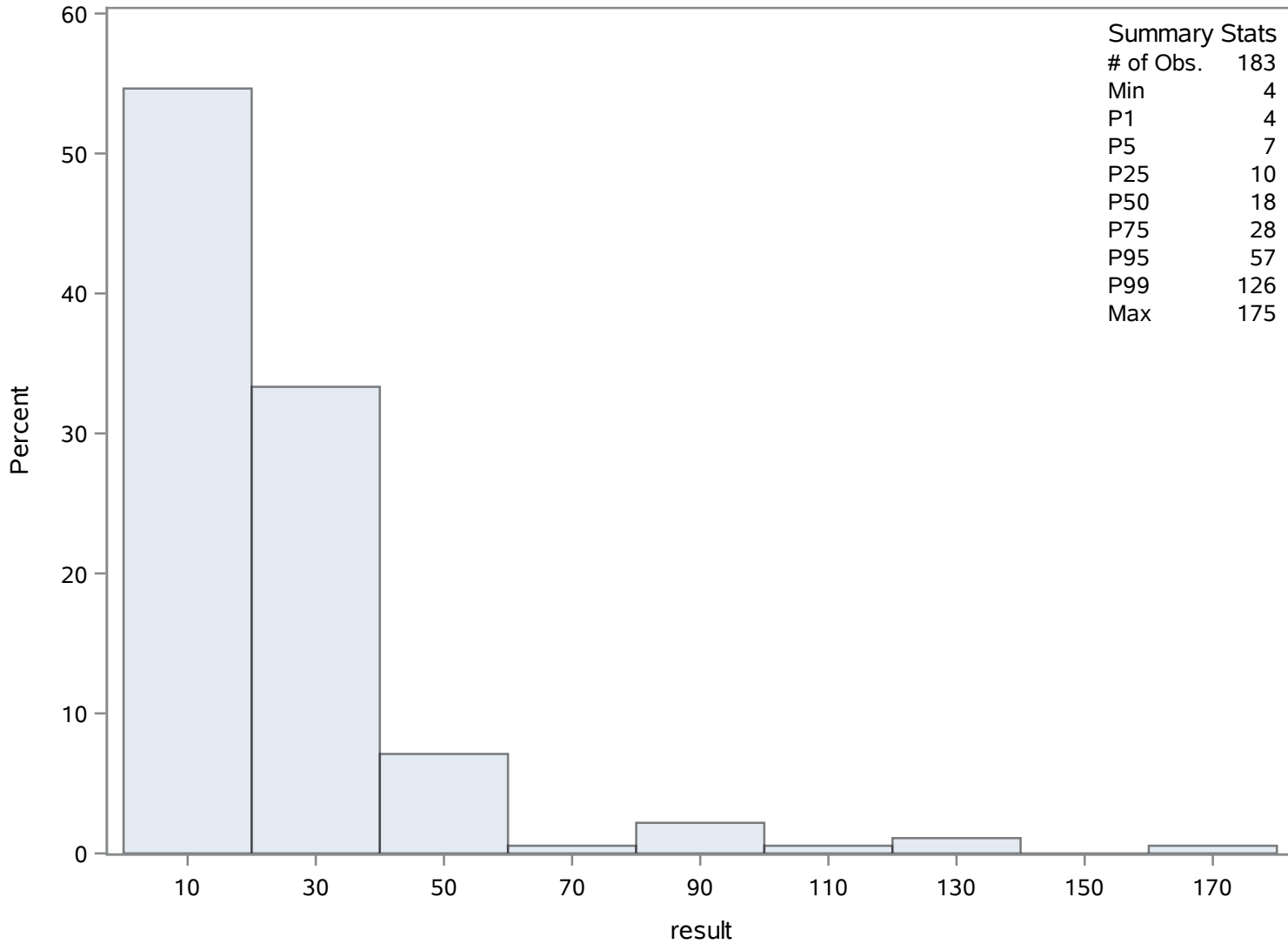
Source: Inactive

Chassahowitzka Citrus 2

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	1.57487923	Sum Observations	326
Std Deviation	0.39184262	Variance	0.15354064
Skewness	0.06949202	Kurtosis	1.29109597
Uncorrected SS	545.04	Corrected SS	31.629372
Coeff Variation	24.8808045	Std Error Mean	0.02723494

Basic Statistical Measures			
Location		Variability	
Mean	1.574879	Std Deviation	0.39184
Median	1.600000	Variance	0.15354
Mode	1.400000	Range	3.00000
		Interquartile Range	0.60000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	57.82568	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.2
99%	2.3
95%	2.2
90%	2.1
75% Q3	1.9
50% Median	1.6
25% Q1	1.3
10%	1.1
5%	1.0
1%	0.7
0% Min	0.2

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2

Depth (Total) Meters

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	582	2.2	587
0.6	514	2.2	617
0.7	629	2.3	686
0.7	497	2.7	481
0.8	643	3.2	483

Chassahowitzka River - Fixed Station

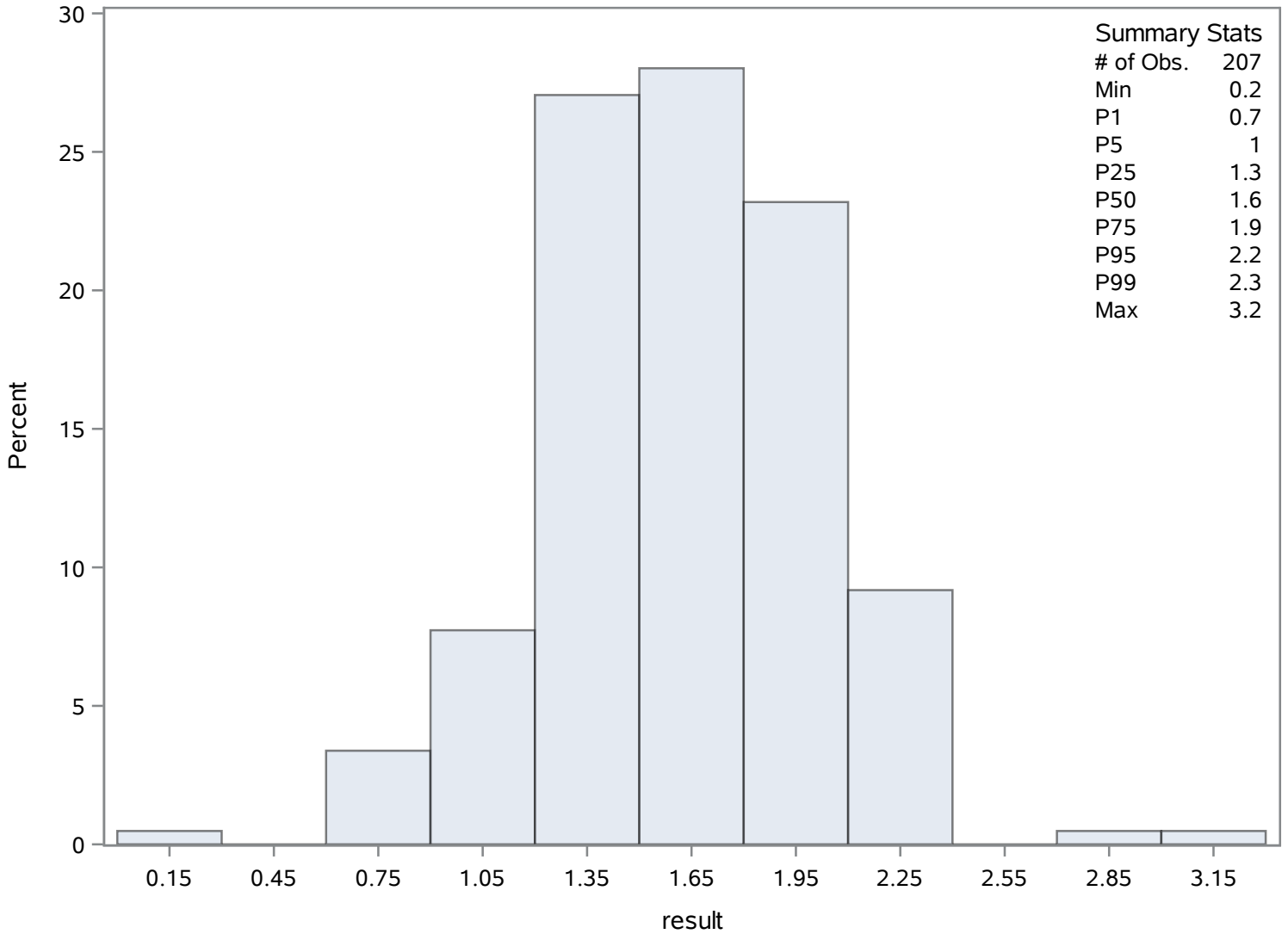
Source: Inactive

Chassahowitzka Citrus 2

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	204	Sum Weights	204
Mean	6.25112745	Sum Observations	1275.23
Std Deviation	1.58085598	Variance	2.49910562
Skewness	0.28653417	Kurtosis	0.27942294
Uncorrected SS	8478.9437	Corrected SS	507.318441
Coeff Variation	25.2891337	Std Error Mean	0.11068206

Basic Statistical Measures			
Location		Variability	
Mean	6.251127	Std Deviation	1.58086
Median	6.160000	Variance	2.49911
Mode	4.590000	Range	9.42000
		Interquartile Range	2.07000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	56.47824	Pr > t 	<.0001
Sign	M	102	Pr >= M 	<.0001
Signed Rank	S	10455	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.800
99%	10.400
95%	8.800
90%	8.380
75% Q3	7.285
50% Median	6.160
25% Q1	5.215
10%	4.300
5%	3.700

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	2.950
0% Min	2.380

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.38	735	9.5	707
2.94	877	9.7	728
2.95	794	10.4	696
3.03	767	10.5	687
3.24	781	11.8	706

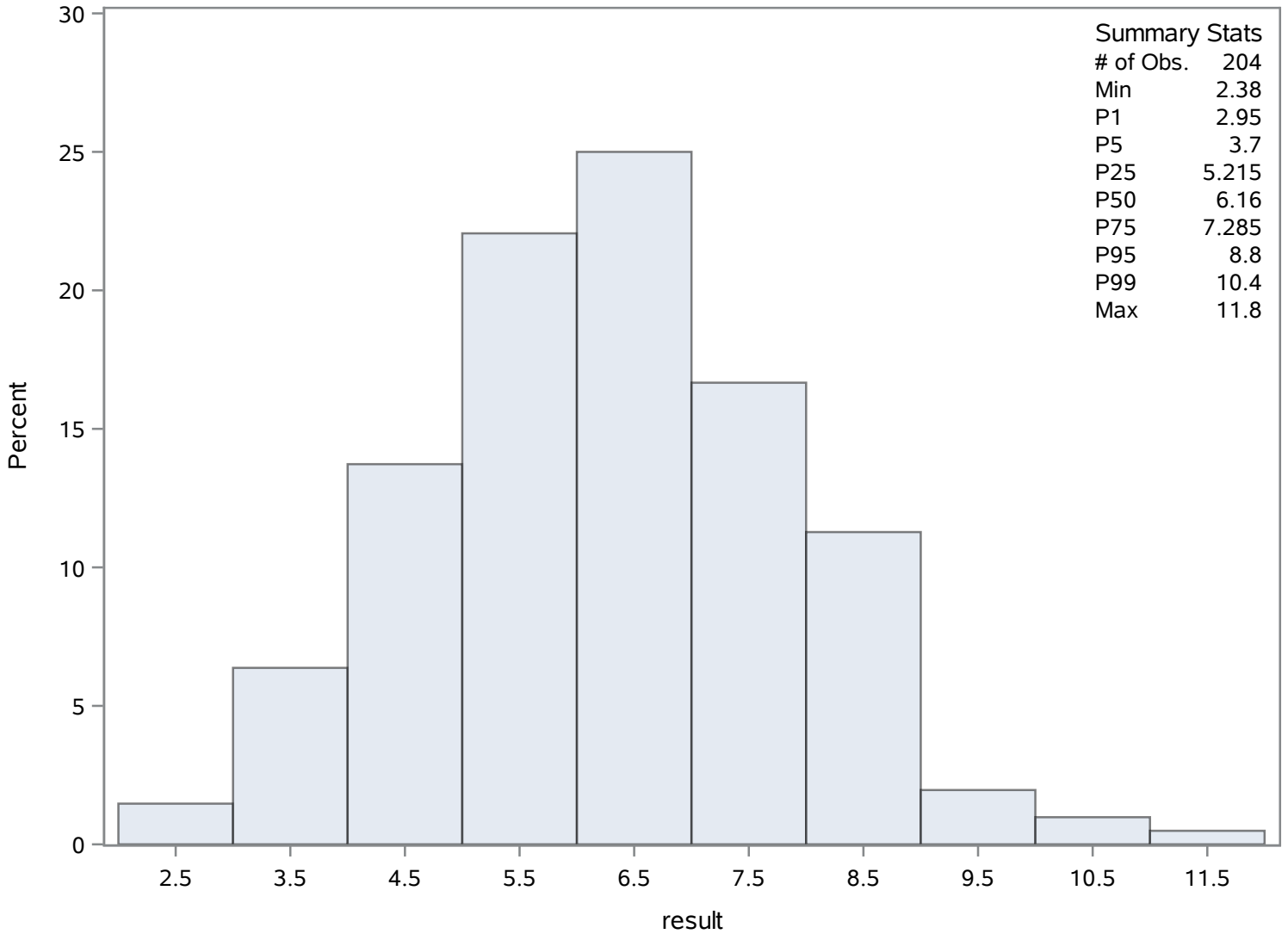
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	179	Sum Weights	179
Mean	1.95588268	Sum Observations	350.103
Std Deviation	0.80379734	Variance	0.64609016
Skewness	2.41594573	Kurtosis	11.4452792
Uncorrected SS	799.764443	Corrected SS	115.004049
Coeff Variation	41.0963983	Std Error Mean	0.06007863

Basic Statistical Measures			
Location		Variability	
Mean	1.955883	Std Deviation	0.80380
Median	1.793000	Variance	0.64609
Mode	1.490000	Range	6.84900
		Interquartile Range	0.73600

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.55538	Pr > t 	<.0001
Sign	M	89.5	Pr >= M 	<.0001
Signed Rank	S	8055	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.370
99%	4.288
95%	3.515
90%	2.923
75% Q3	2.225
50% Median	1.793
25% Q1	1.489
10%	1.212
5%	1.020

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.873
0% Min	0.521

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.521	969	4.041	1009
0.873	924	4.194	1033
0.903	1003	4.274	937
0.951	978	4.288	950
0.955	907	7.370	976

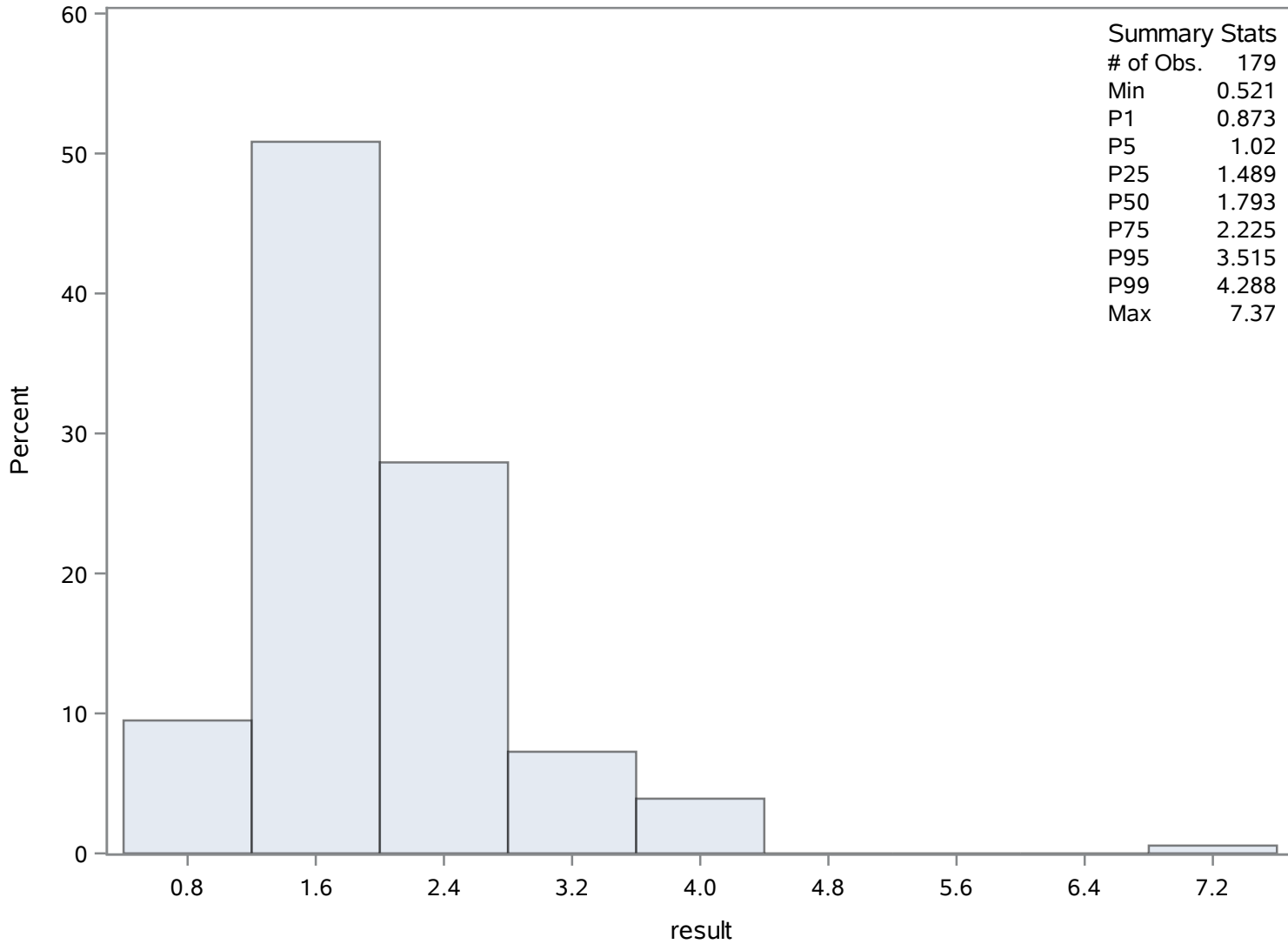
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2 Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	434.708738	Sum Observations	89550
Std Deviation	159.592966	Variance	25469.9148
Skewness	0.76066594	Kurtosis	0.62012989
Uncorrected SS	44149500	Corrected SS	5221332.52
Coeff Variation	36.7126197	Std Error Mean	11.1193688

Basic Statistical Measures			
Location		Variability	
Mean	434.7087	Std Deviation	159.59297
Median	410.0000	Variance	25470
Mode	360.0000	Range	930.00000
		Interquartile Range	210.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	39.09473	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1030
99%	890
95%	730
90%	670
75% Q3	530
50% Median	410
25% Q1	320
10%	240
5%	210
1%	180
0% Min	100

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
100	1090	790	1070
160	1211	800	1217
180	1128	890	1102
190	1136	930	1204
190	1091	1030	1240

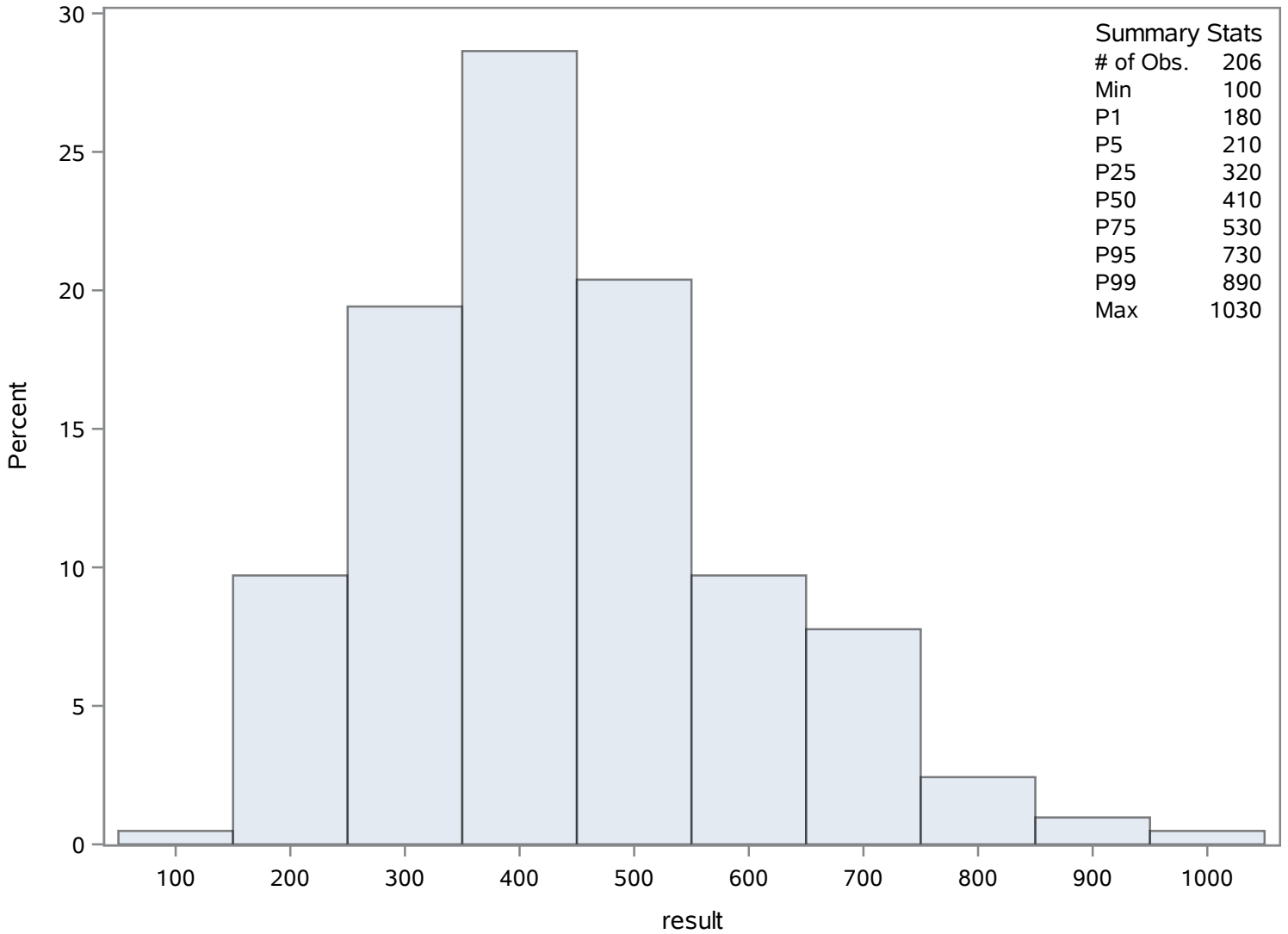
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2 Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	25.0825243	Sum Observations	5167
Std Deviation	10.1725592	Variance	103.480961
Skewness	1.39474468	Kurtosis	2.87009094
Uncorrected SS	150815	Corrected SS	21213.5971
Coeff Variation	40.5563616	Std Error Mean	0.70875579

Basic Statistical Measures			
Location		Variability	
Mean	25.08252	Std Deviation	10.17256
Median	23.00000	Variance	103.48096
Mode	23.00000	Range	65.00000
		Interquartile Range	12.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	35.38952	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	74
99%	55
95%	45
90%	39
75% Q3	30
50% Median	23
25% Q1	18
10%	14
5%	13
1%	11
0% Min	9

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9	1477	51	1396
9	1294	52	1436
11	1450	55	1446
11	1365	59	1308
11	1297	74	1276

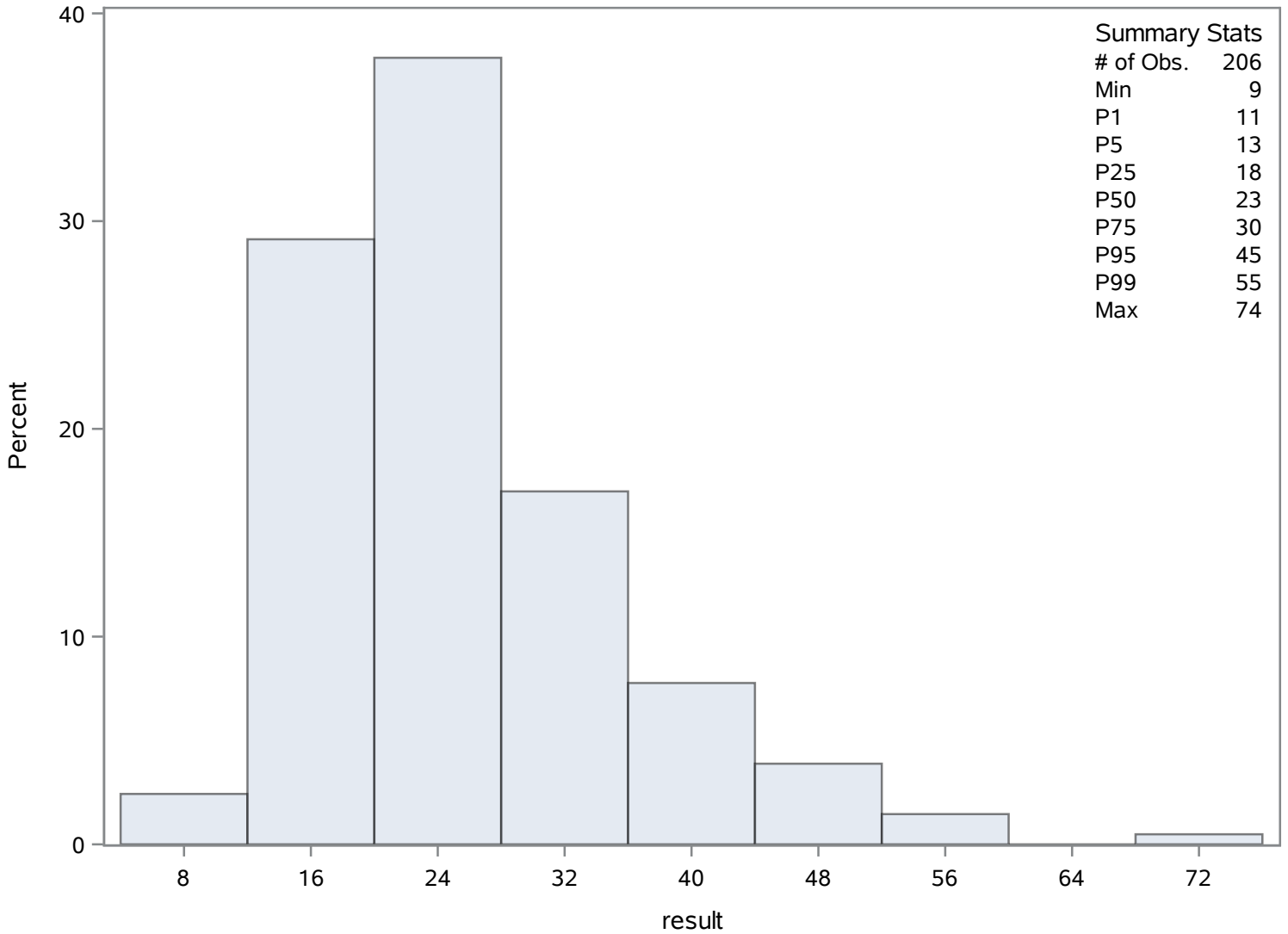
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	4.03555556	Sum Observations	835.36
Std Deviation	2.32004824	Variance	5.38262384
Skewness	2.11712727	Kurtosis	5.6097842
Uncorrected SS	4479.9622	Corrected SS	1108.82051
Coeff Variation	57.4901822	Std Error Mean	0.1612545

Basic Statistical Measures			
Location		Variability	
Mean	4.035556	Std Deviation	2.32005
Median	3.340000	Variance	5.38262
Mode	3.000000	Range	13.97000
		Interquartile Range	1.92000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.026	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.50
99%	11.31
95%	9.26
90%	6.87
75% Q3	4.56
50% Median	3.34
25% Q1	2.64
10%	2.01
5%	1.85
1%	1.70
0% Min	1.53

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.53	1505	10.20	1518
1.64	1576	10.98	1659
1.70	1569	11.31	1604
1.72	1561	15.20	1540
1.72	1558	15.50	1504

Chassahowitzka River - Fixed Station

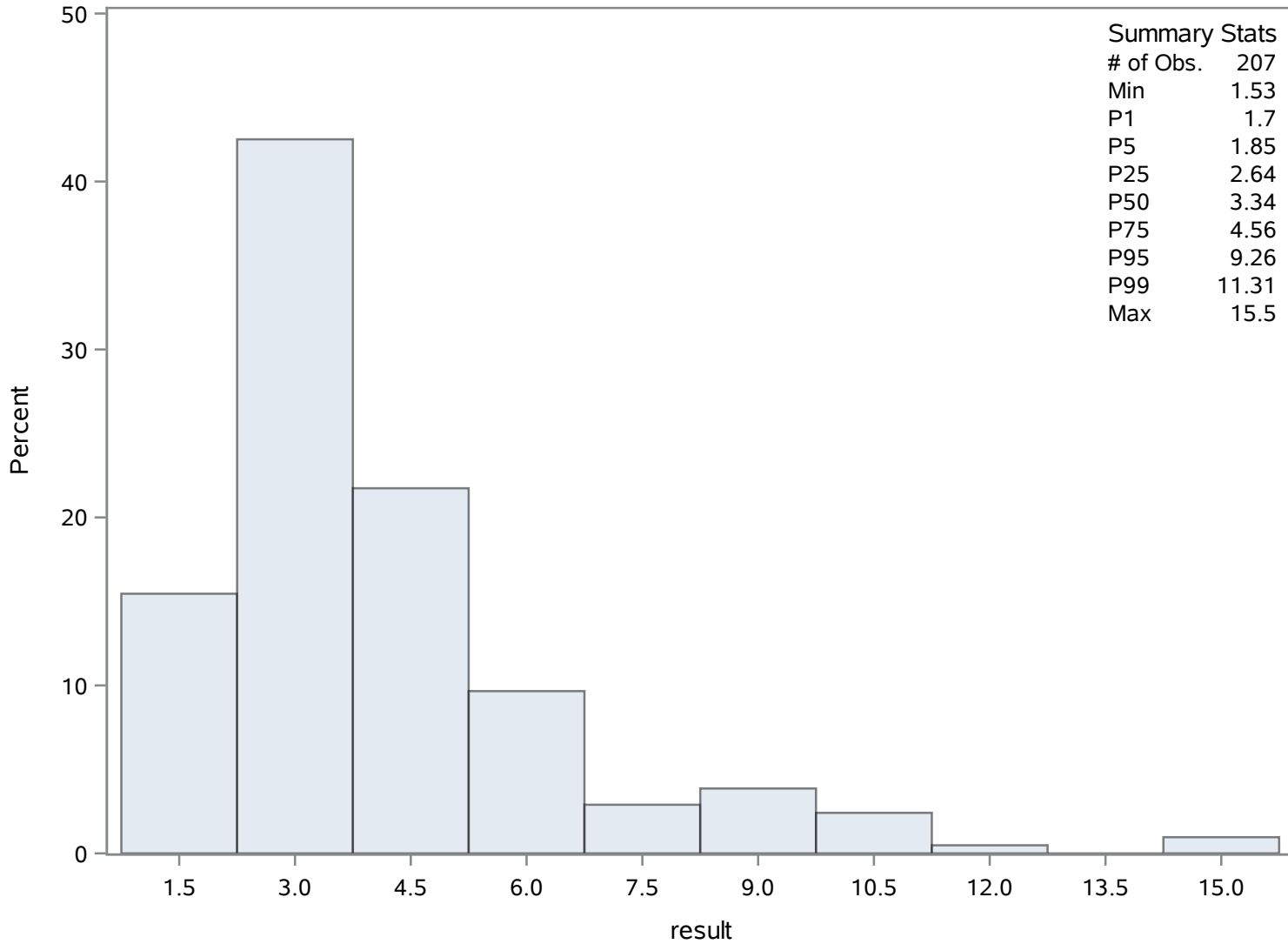
Source: Inactive

Chassahowitzka Citrus 2

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	123	Sum Weights	123
Mean	1.16626016	Sum Observations	143.45
Std Deviation	0.25739043	Variance	0.06624983
Skewness	0.41824726	Kurtosis	0.19956394
Uncorrected SS	175.3825	Corrected SS	8.08247967
Coeff Variation	22.0697266	Std Error Mean	0.02320811

Basic Statistical Measures			
Location		Variability	
Mean	1.166260	Std Deviation	0.25739
Median	1.200000	Variance	0.06625
Mode	1.000000	Range	1.40000
		Interquartile Range	0.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	50.25226	Pr > t 	<.0001
Sign	M	61.5	Pr >= M 	<.0001
Signed Rank	S	3813	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.9
99%	1.8
95%	1.6
90%	1.5
75% Q3	1.3
50% Median	1.2
25% Q1	1.0
10%	0.9
5%	0.8
1%	0.7
0% Min	0.5

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	1704	1.7	1690
0.7	1779	1.8	1721
0.7	1773	1.8	1725
0.8	1803	1.8	1749
0.8	1801	1.9	1805

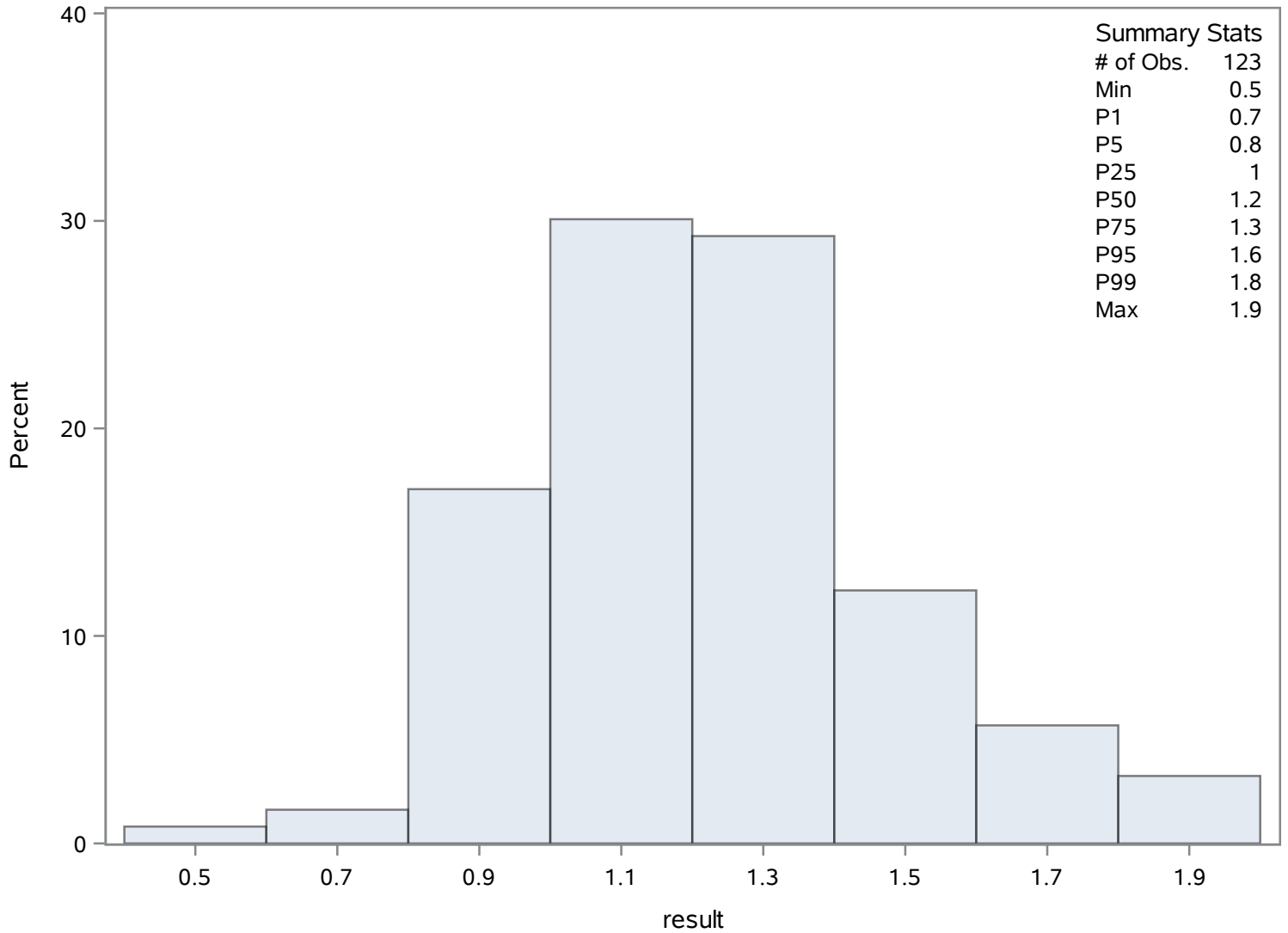
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2 Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	23.9953883	Sum Observations	4943.05
Std Deviation	3.61997246	Variance	13.1042006
Skewness	-0.0937295	Kurtosis	-0.8676897
Uncorrected SS	121296.766	Corrected SS	2686.36112
Coeff Variation	15.0861174	Std Error Mean	0.25221543

Basic Statistical Measures			
Location		Variability	
Mean	23.99539	Std Deviation	3.61997
Median	24.01000	Variance	13.10420
Mode	18.52000	Range	16.00000
		Interquartile Range	5.49000

Note: The mode displayed is the smallest of 16 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	95.13846	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.00
99%	30.29
95%	29.70
90%	28.98
75% Q3	26.89
50% Median	24.01
25% Q1	21.40
10%	19.00
5%	18.16

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	16.64
0% Min	15.00

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
15.00	1854	30.08	1933
16.04	1973	30.25	2017
16.64	1855	30.29	1967
17.02	1950	30.70	1850
17.33	1974	31.00	1851

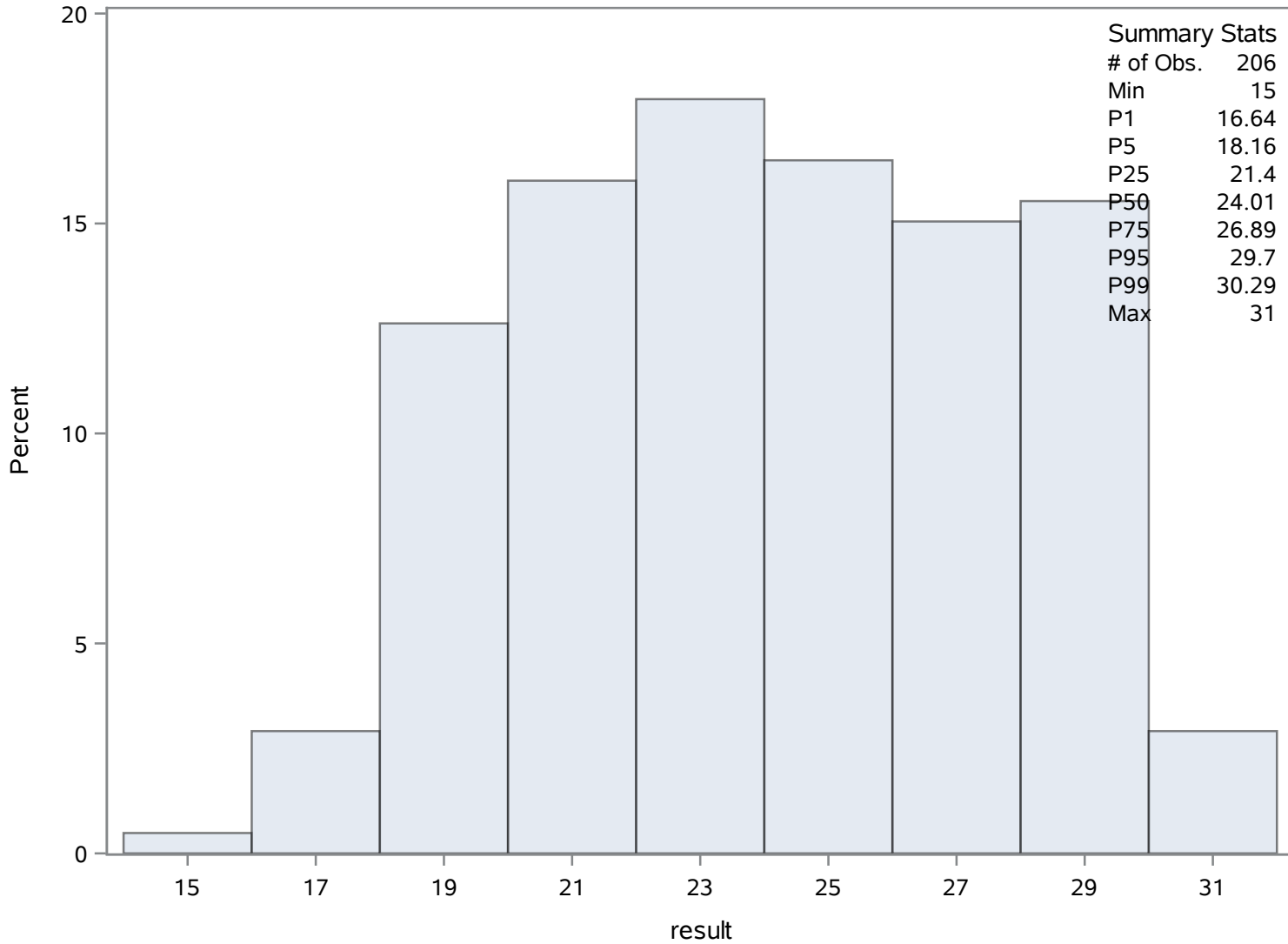
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 2 Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	142	Sum Weights	142
Mean	7.64070423	Sum Observations	1084.98
Std Deviation	0.31890693	Variance	0.10170163
Skewness	-0.310155	Kurtosis	0.9520292
Uncorrected SS	8304.3512	Corrected SS	14.3399296
Coeff Variation	4.17378972	Std Error Mean	0.02676207

Basic Statistical Measures			
Location		Variability	
Mean	7.640704	Std Deviation	0.31891
Median	7.655000	Variance	0.10170
Mode	7.610000	Range	2.03000
		Interquartile Range	0.39000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	285.5049	Pr > t 	<.0001
Sign	M	71	Pr >= M 	<.0001
Signed Rank	S	5076.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.510
99%	8.400
95%	8.120
90%	8.020
75% Q3	7.840
50% Median	7.655
25% Q1	7.450
10%	7.280
5%	7.110
1%	6.840
0% Min	6.480

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.48	2088	8.16	2094
6.84	2146	8.23	2024
6.86	2089	8.35	2070
6.95	2098	8.40	2095
7.02	2122	8.51	2019

Chassahowitzka River - Fixed Station

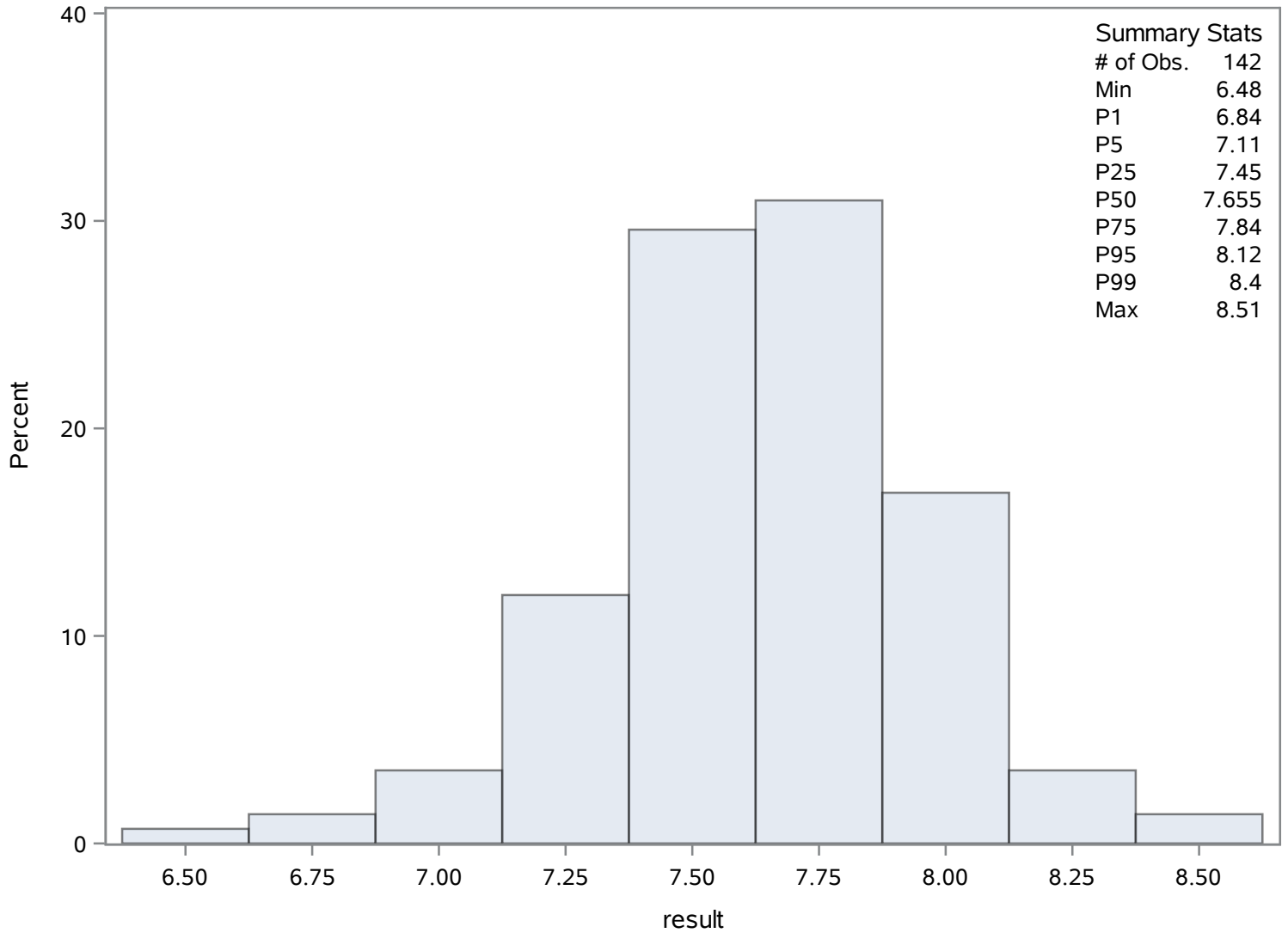
Source: Inactive

Chassahowitzka Citrus 2

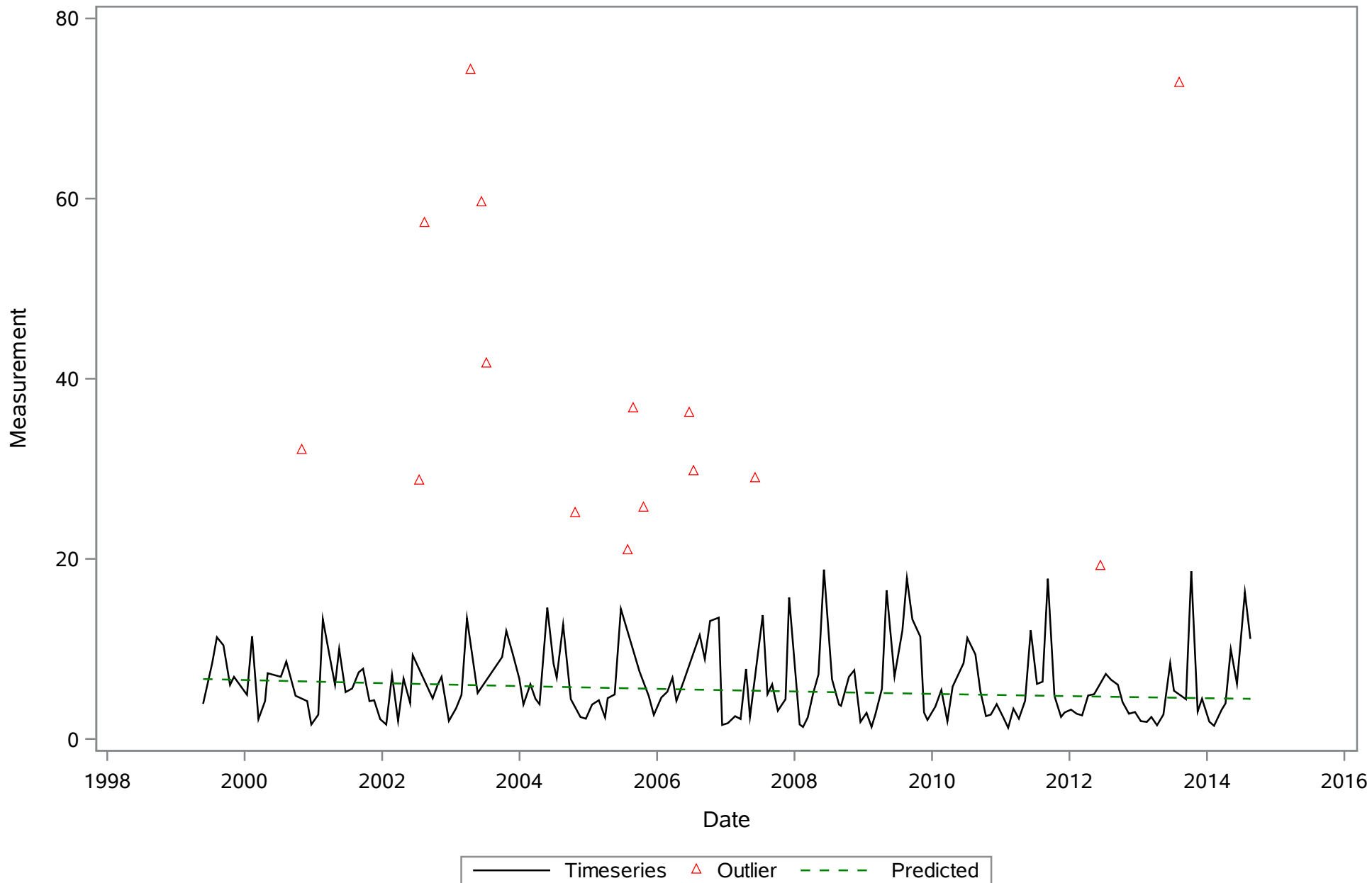
pH (Total) SU

The UNIVARIATE Procedure

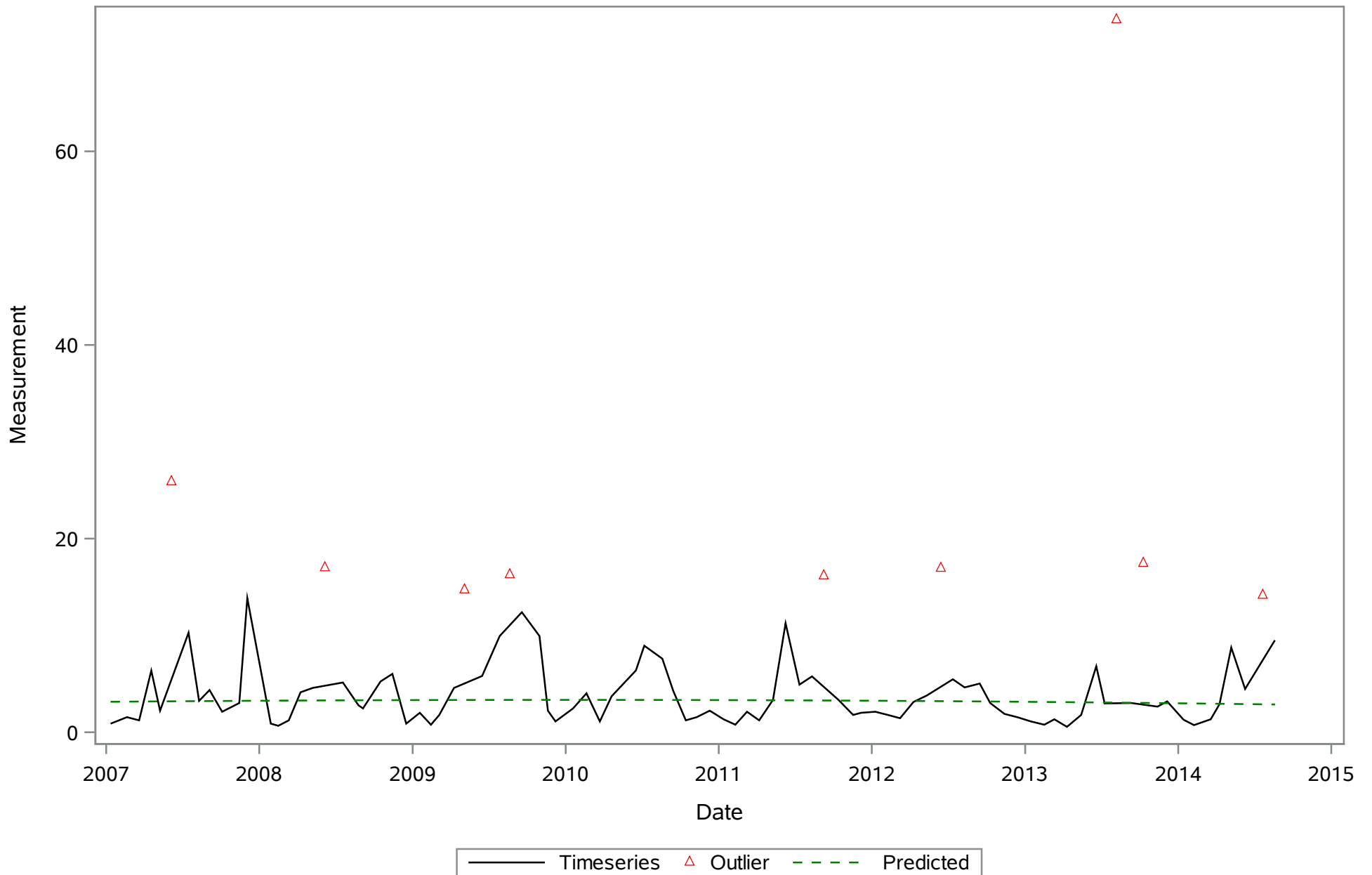
Distribution of result



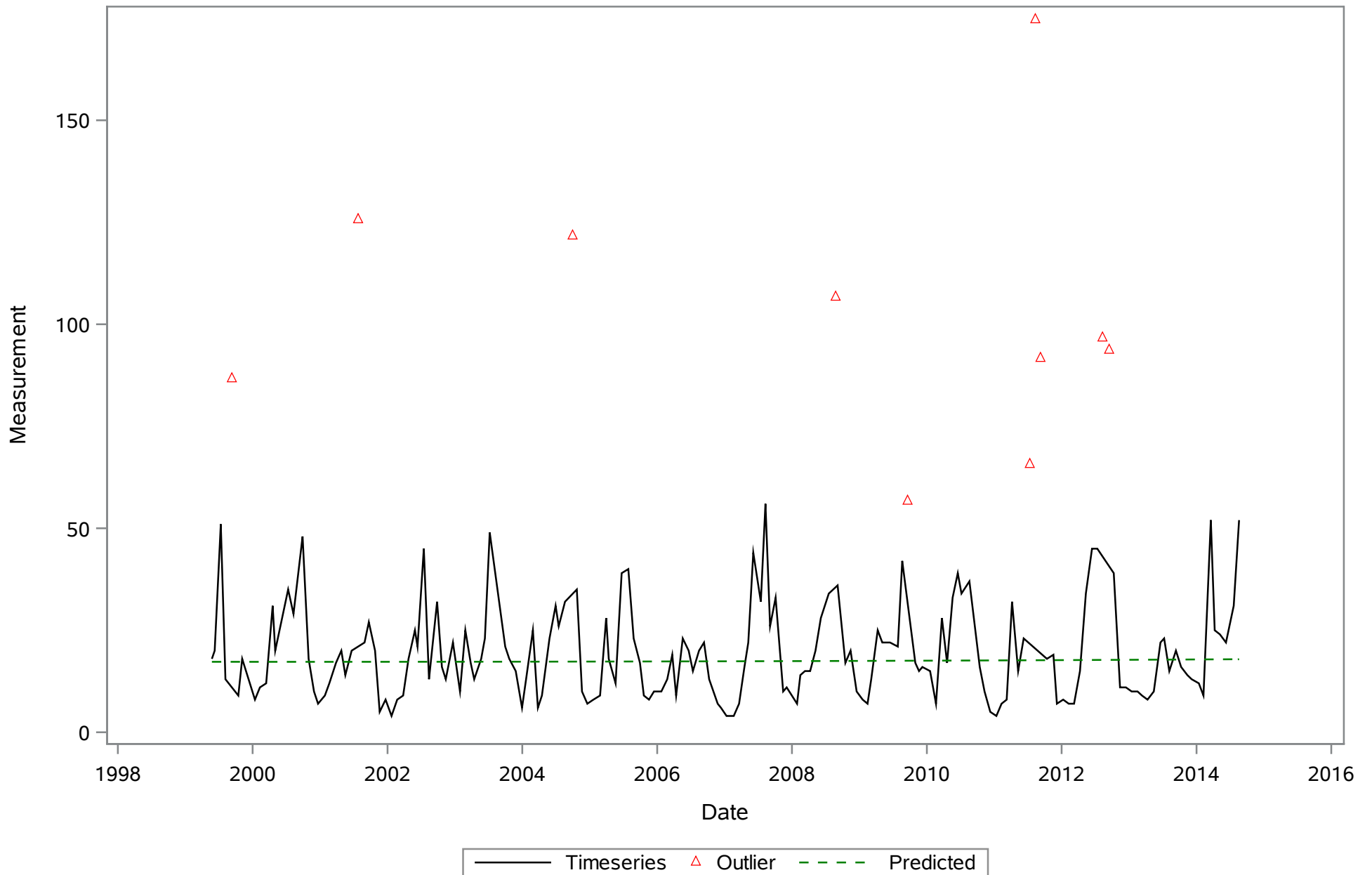
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Chlorophyll (Total) ug/L



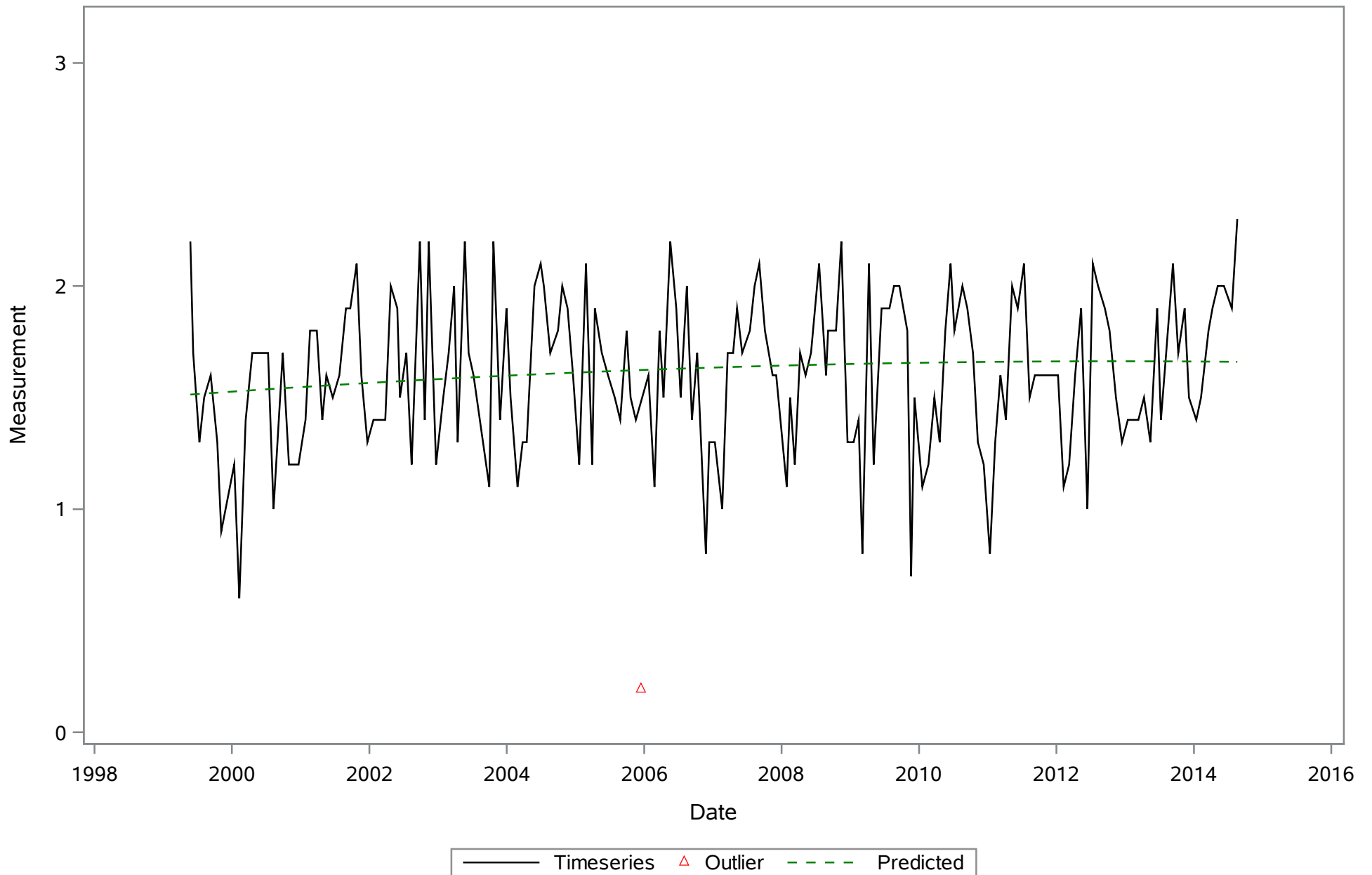
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Chlorophyll a (Total) ug/L



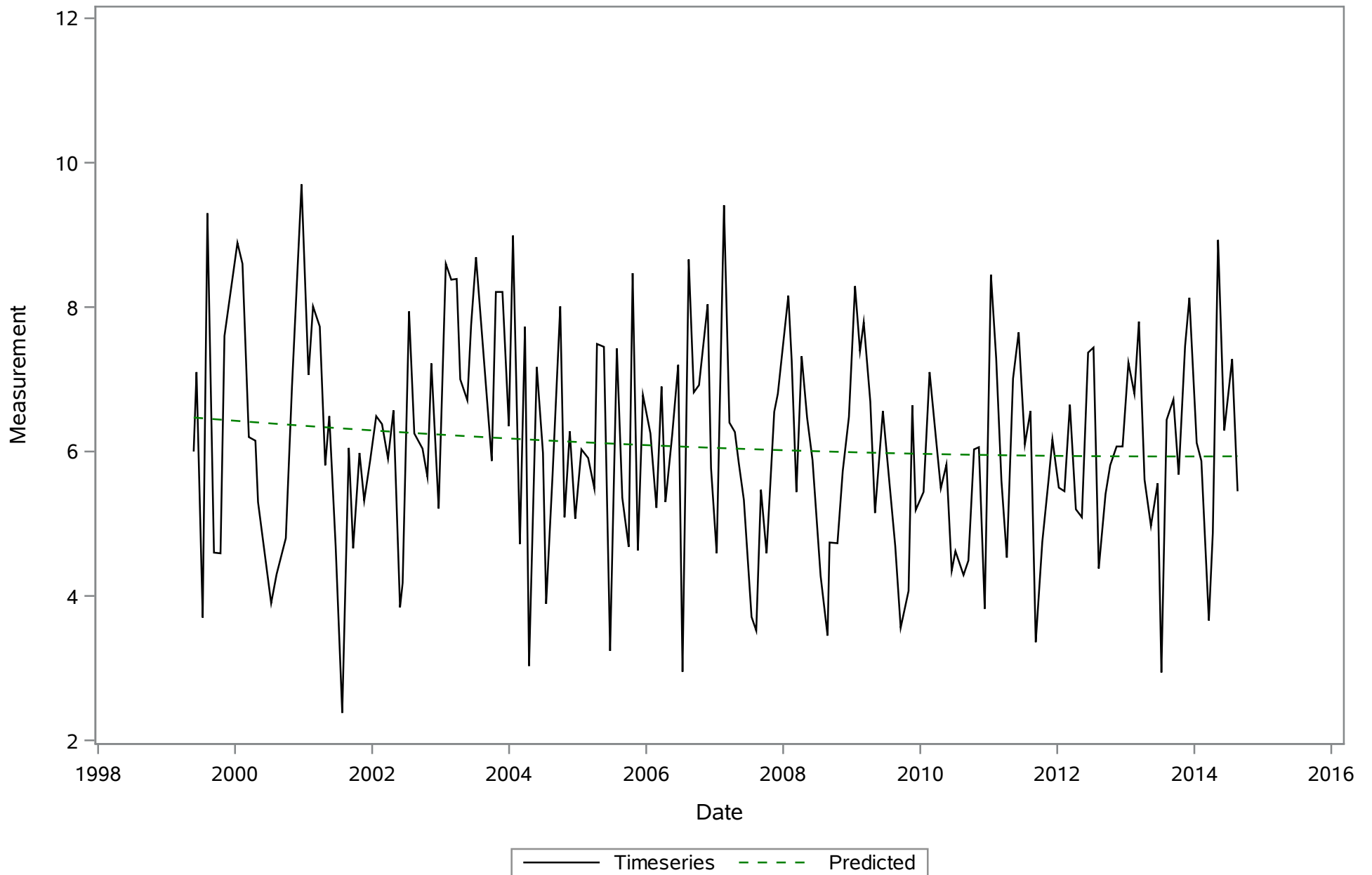
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Color (Total) PCU



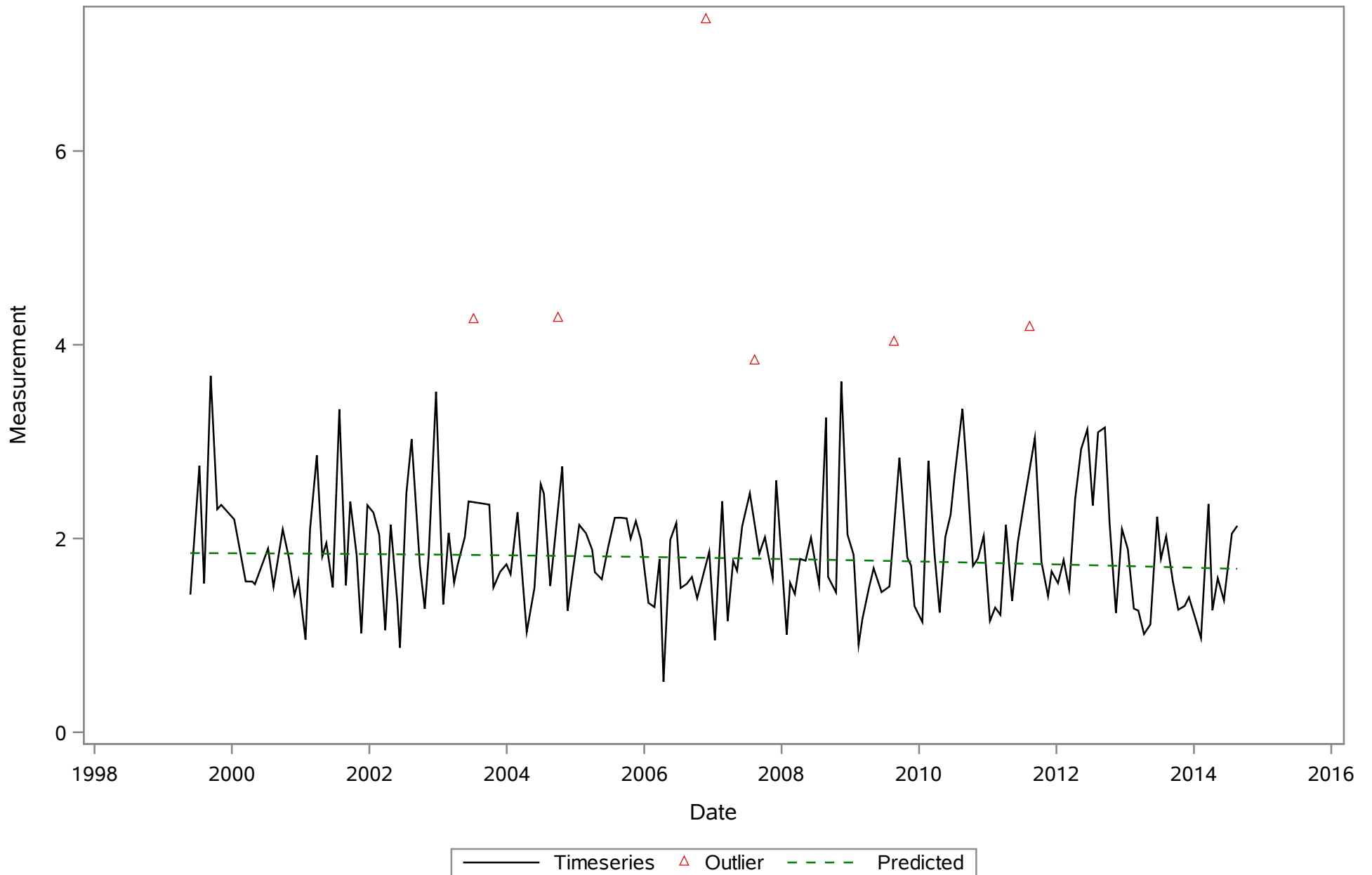
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Depth (Total) Meters



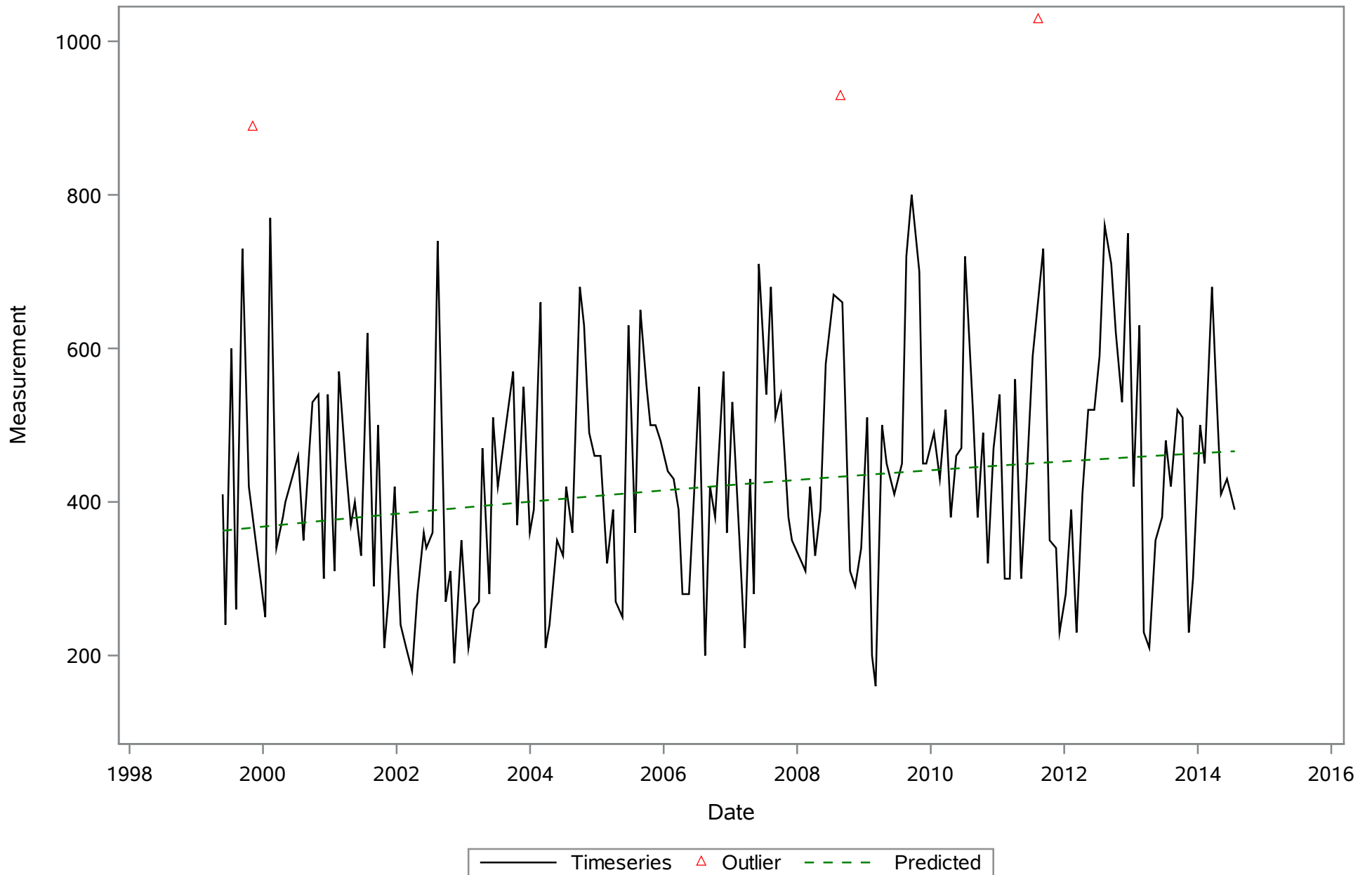
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L



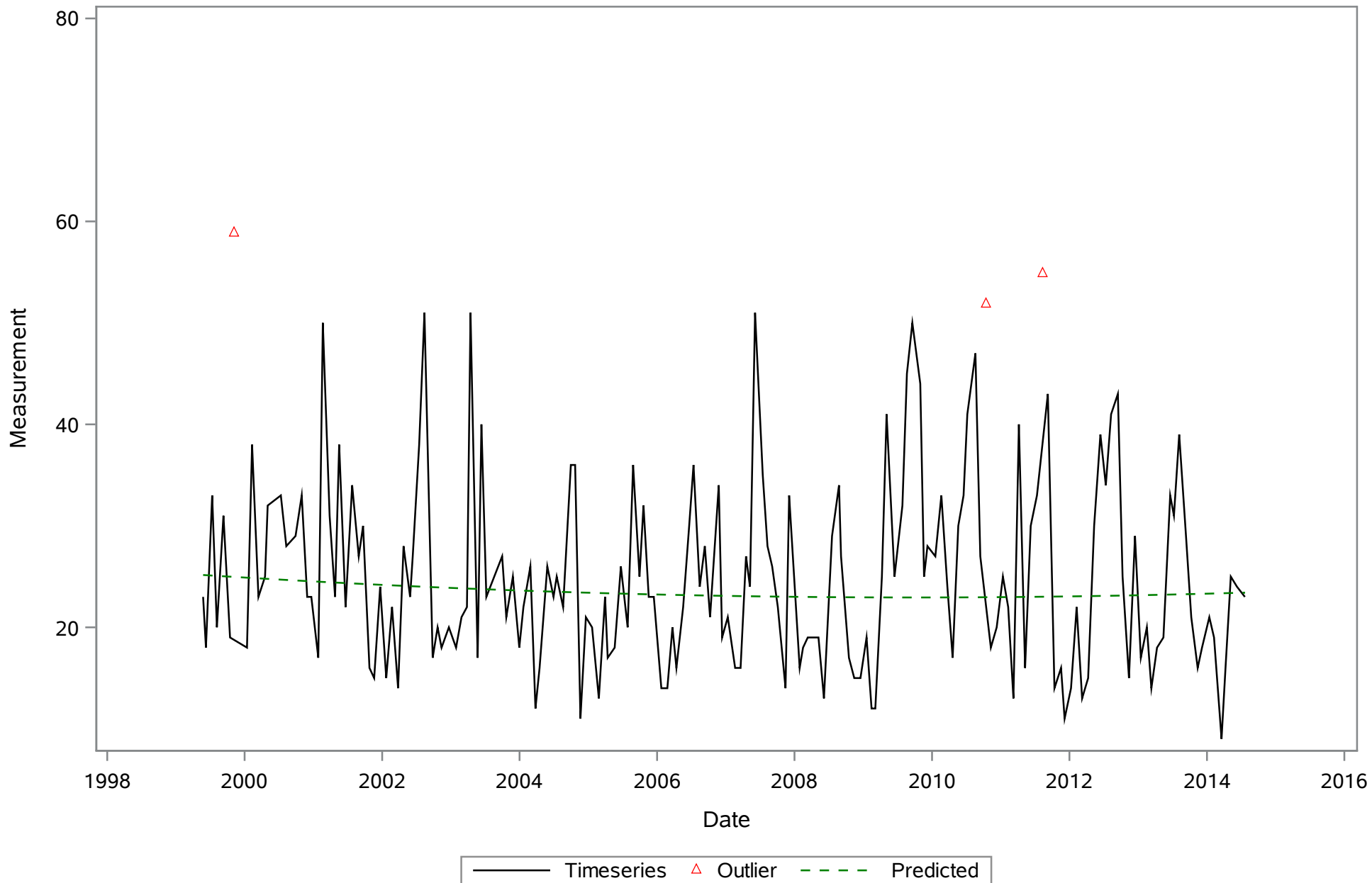
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m



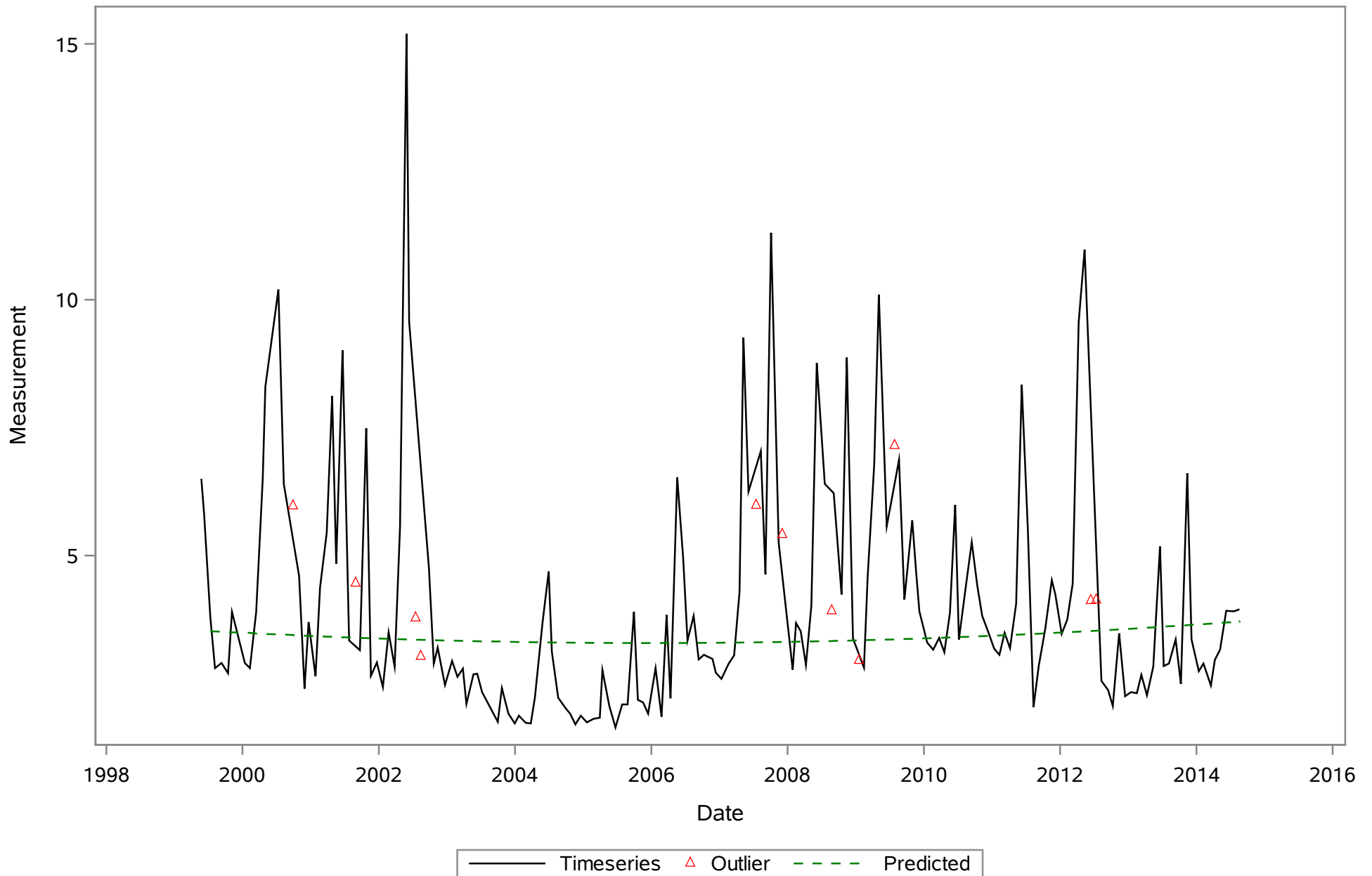
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L



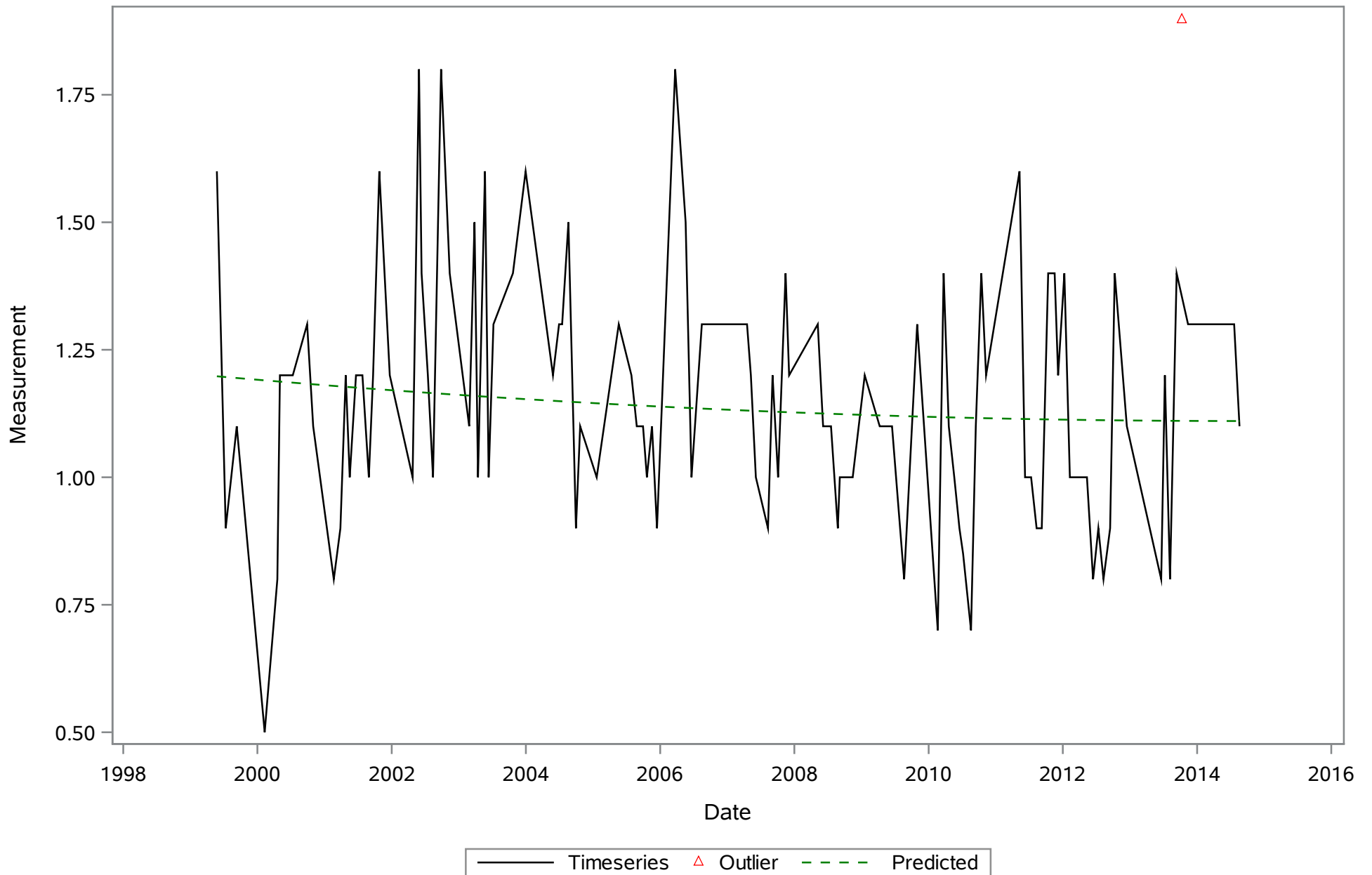
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L



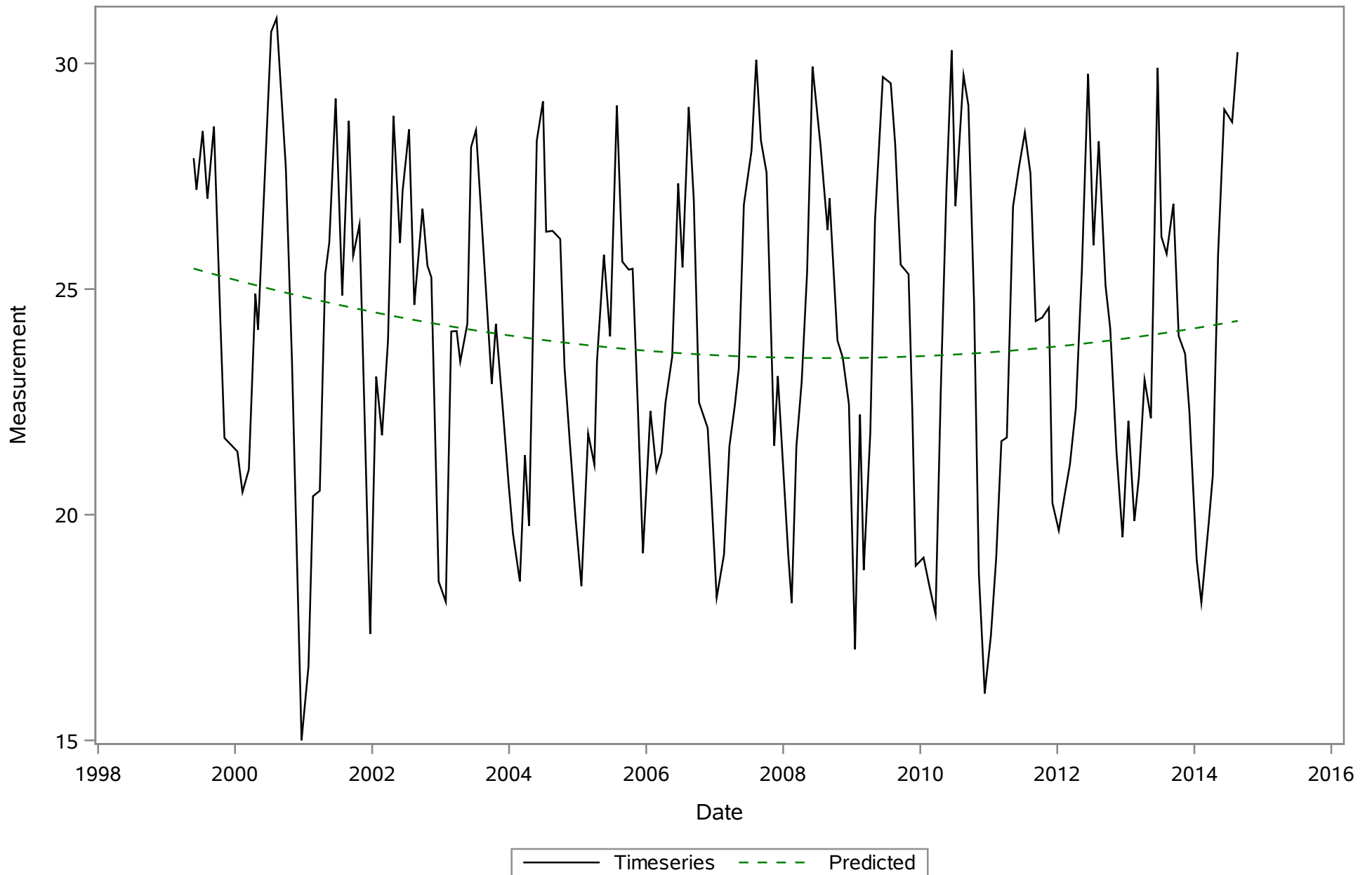
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Salinity (Total) ppt



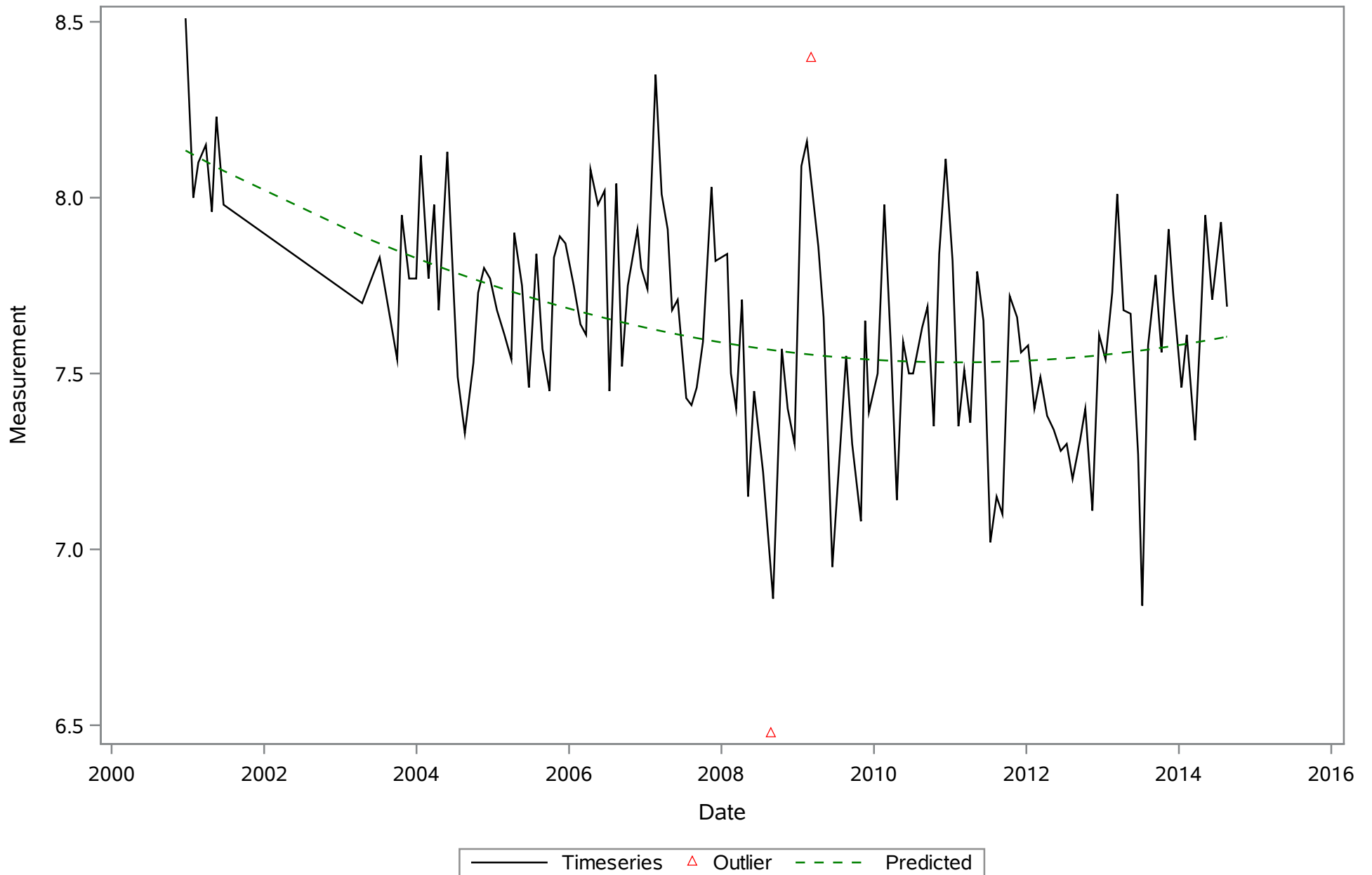
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters



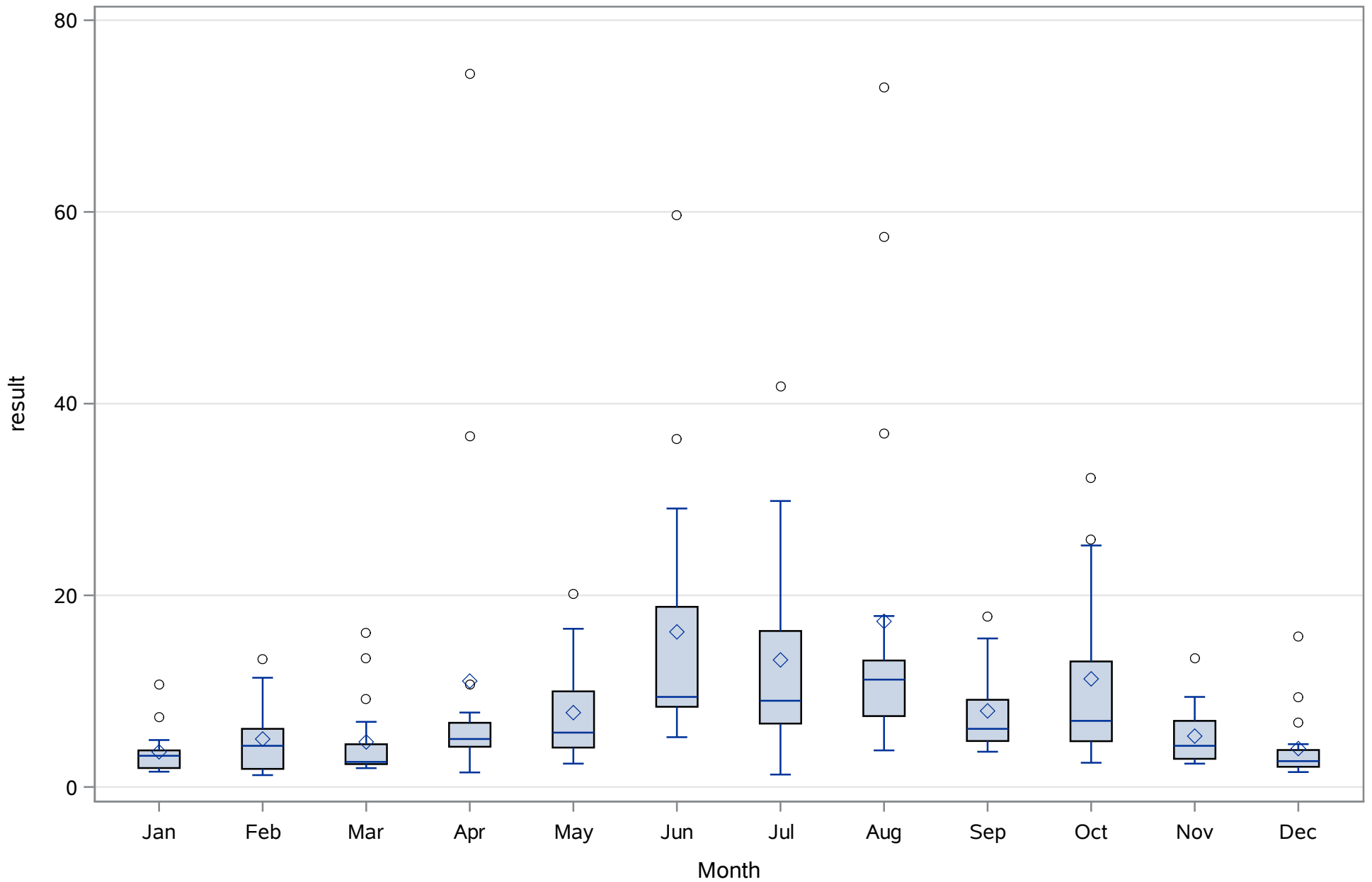
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Temperature (Total) Deg. C



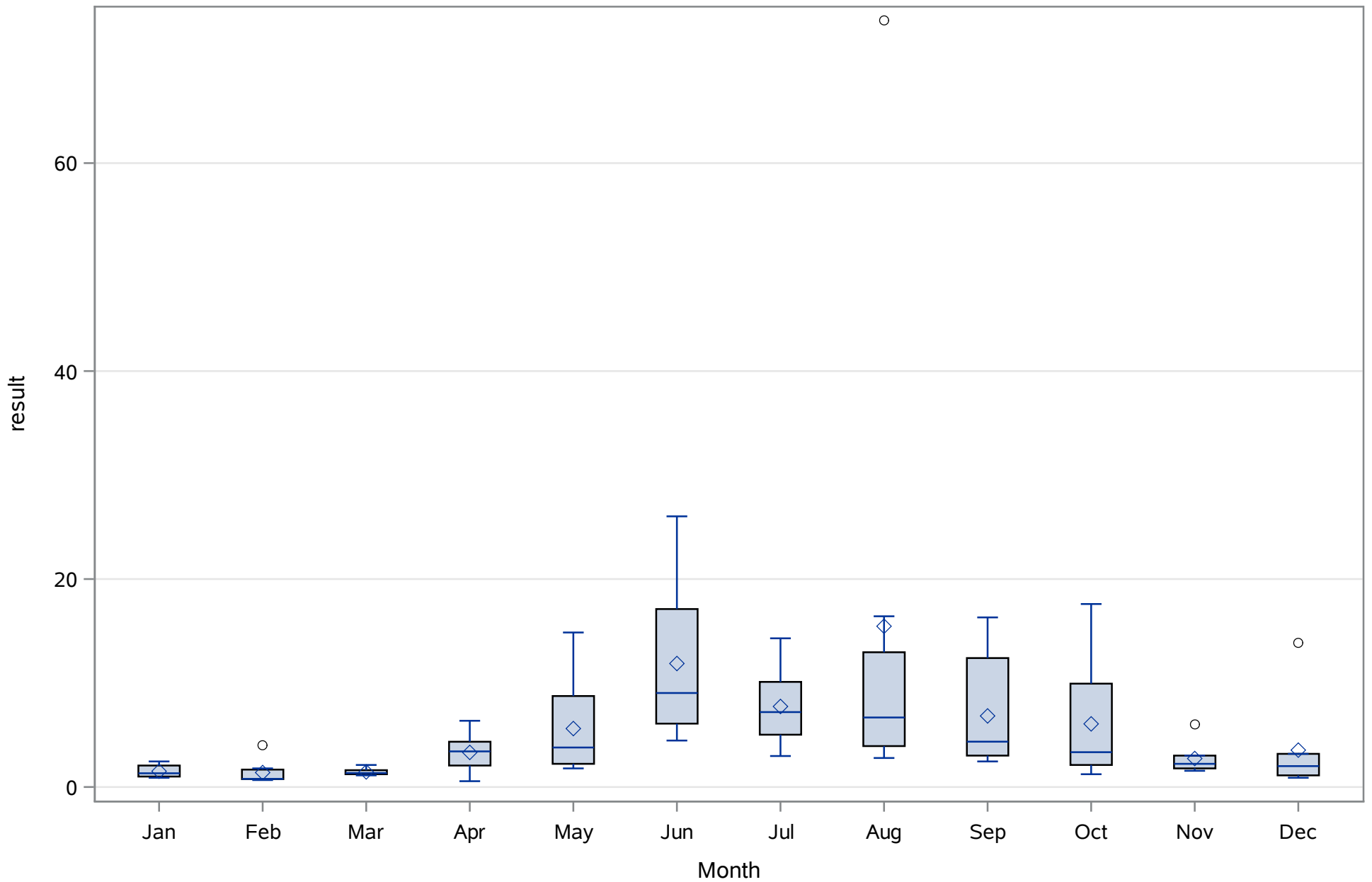
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
pH (Total) SU



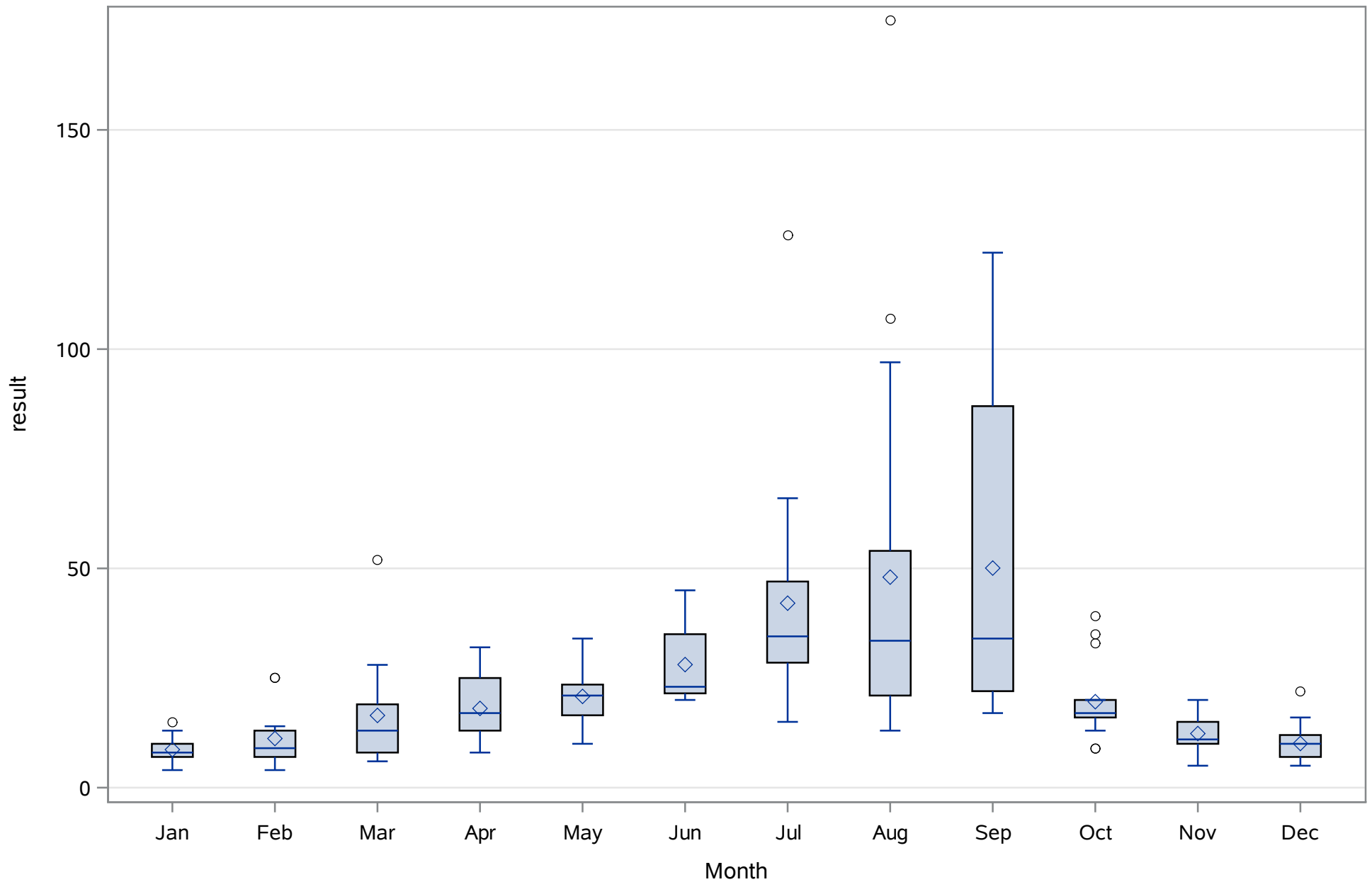
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Chlorophyll (Total) ug/L



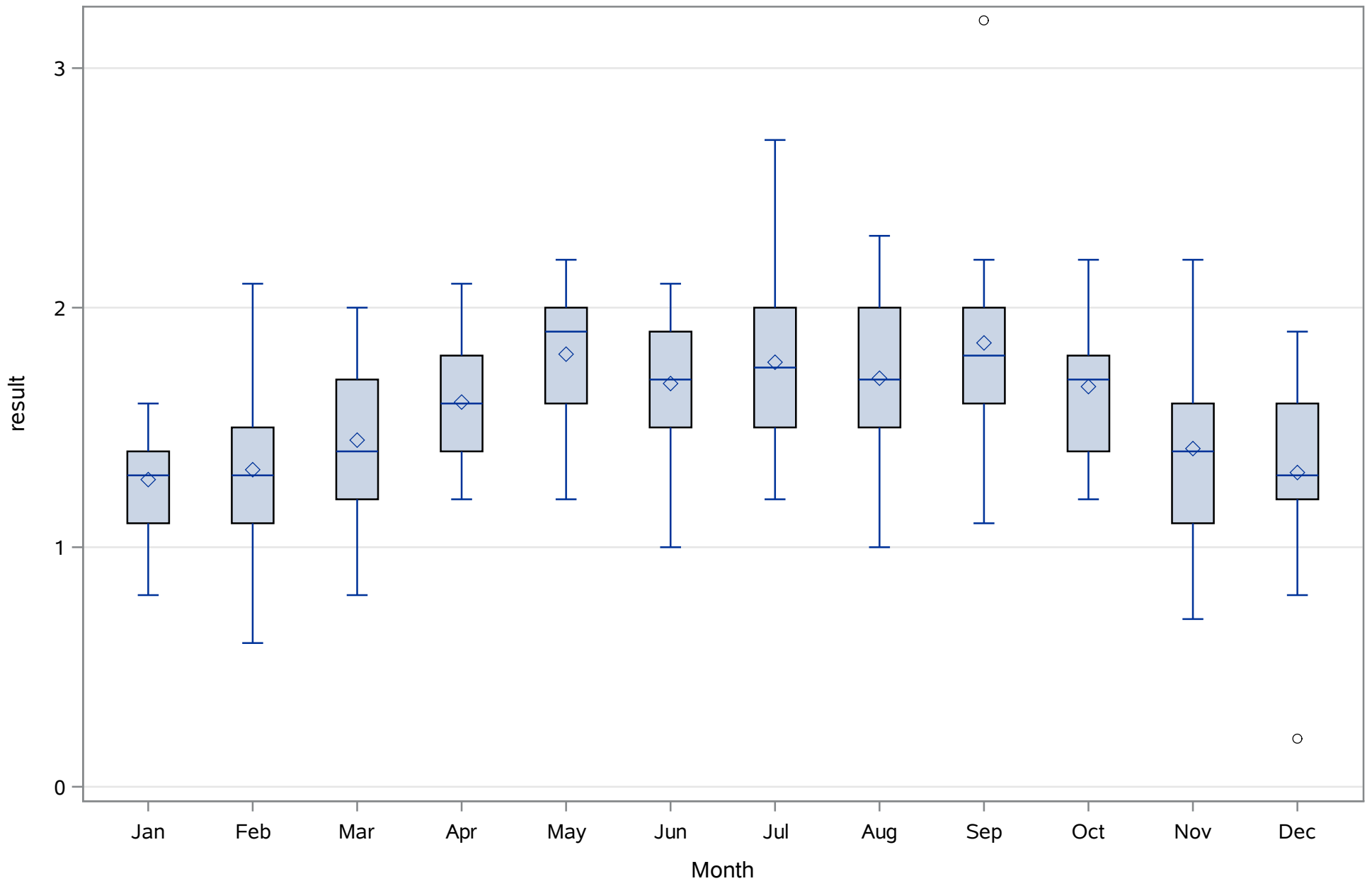
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Chlorophyll a (Total) ug/L



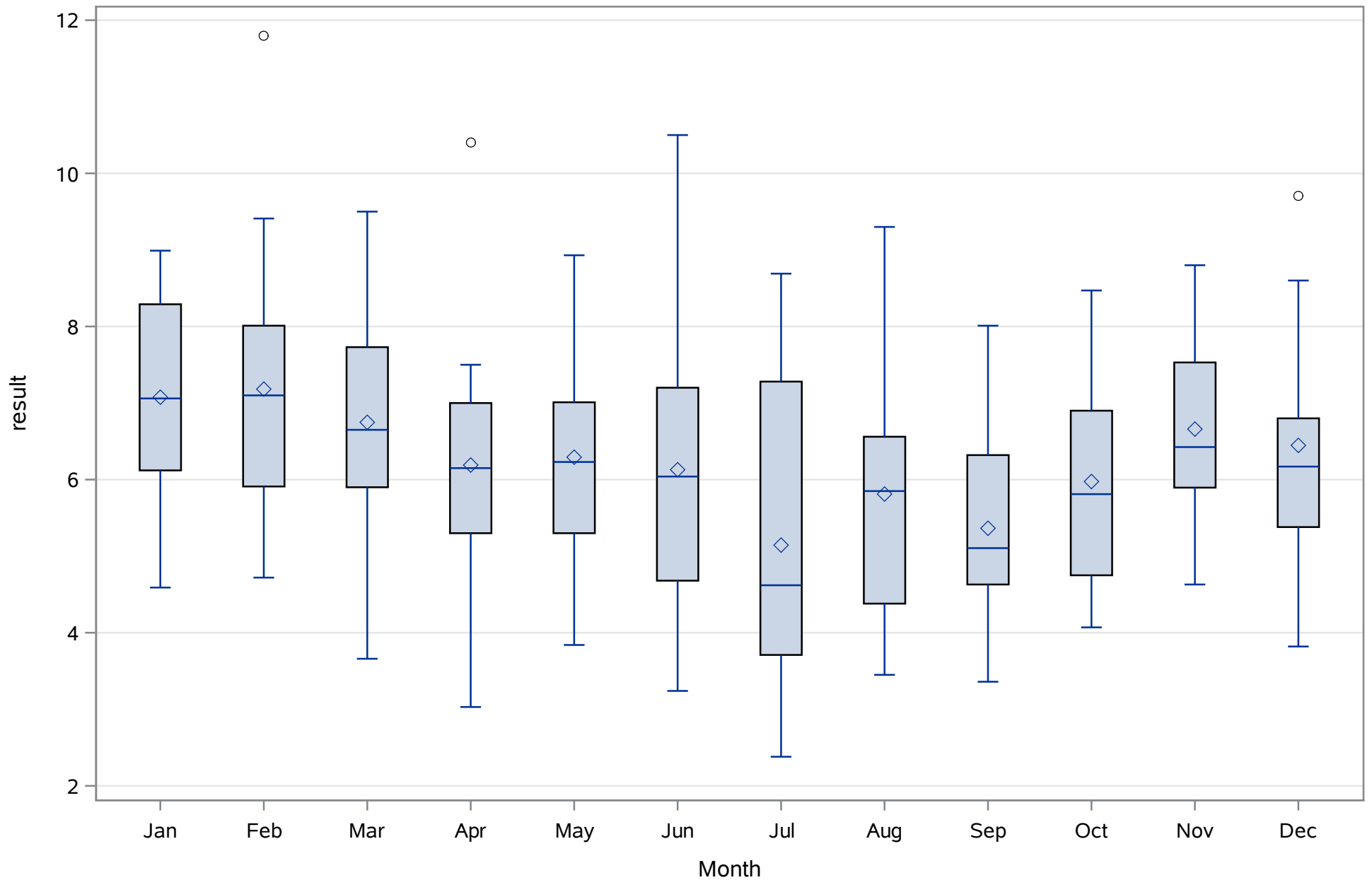
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Color (Total) PCU



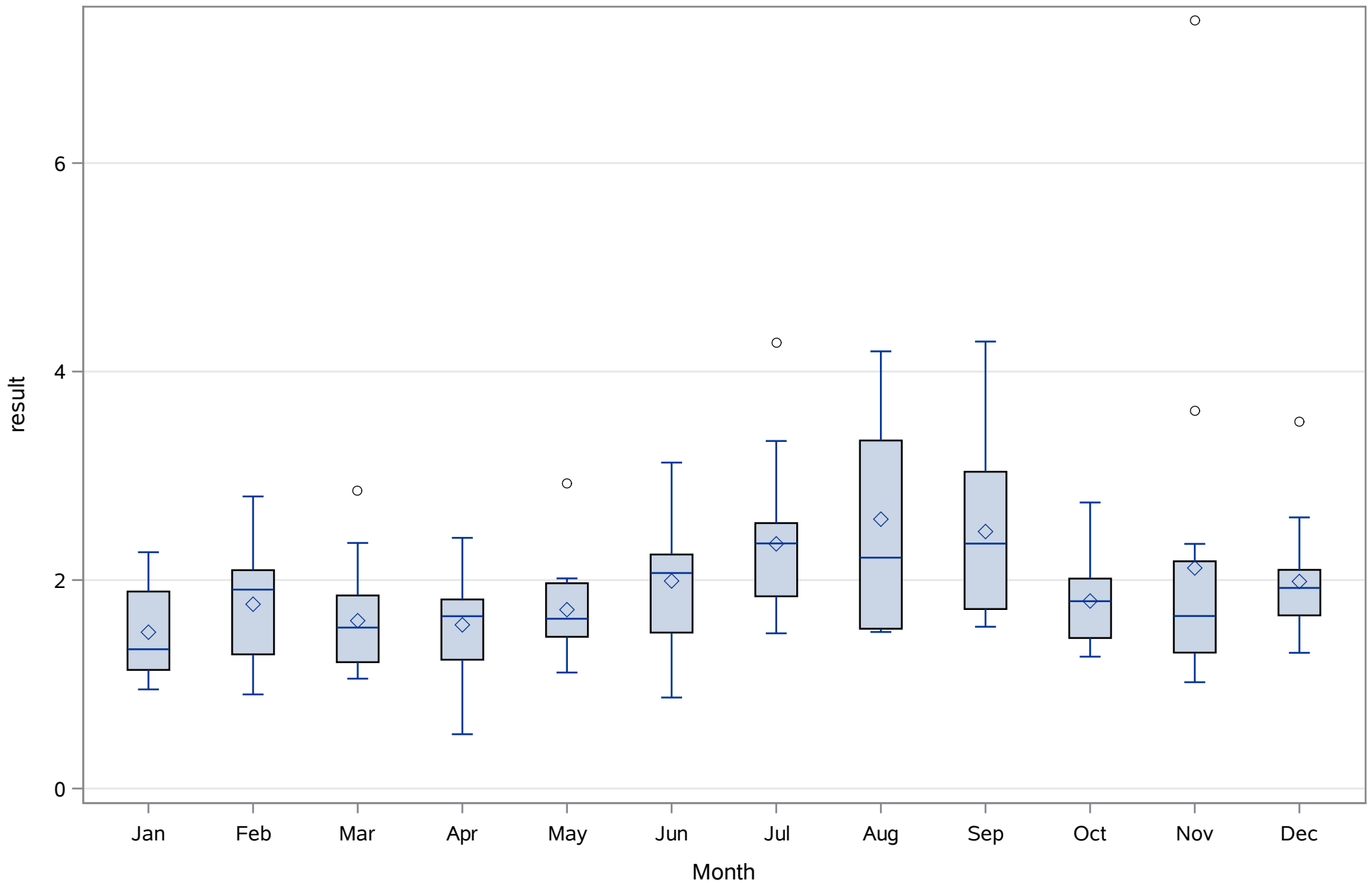
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Depth (Total) Meters



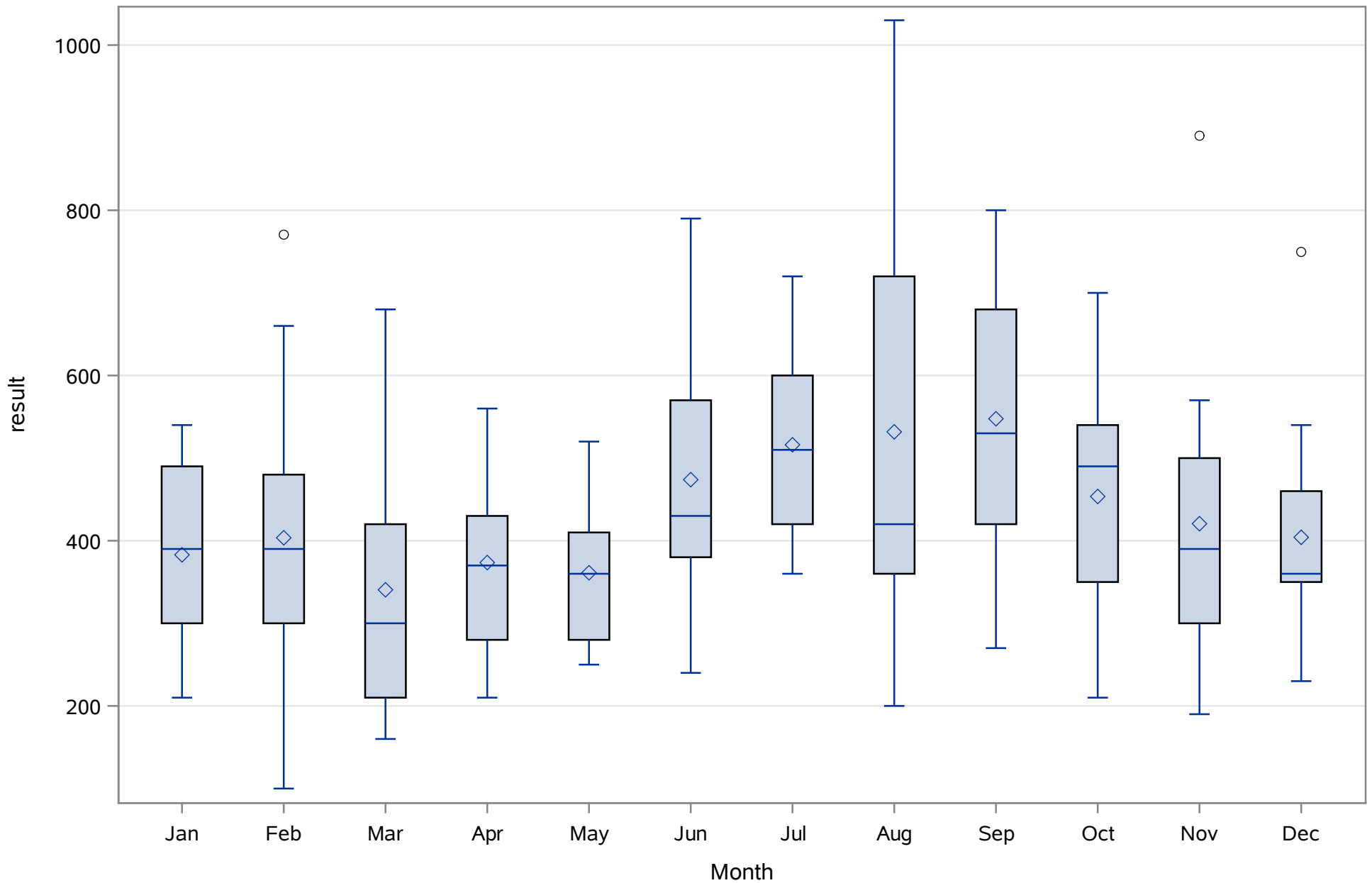
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Dissolved Oxygen (Total) mg/L



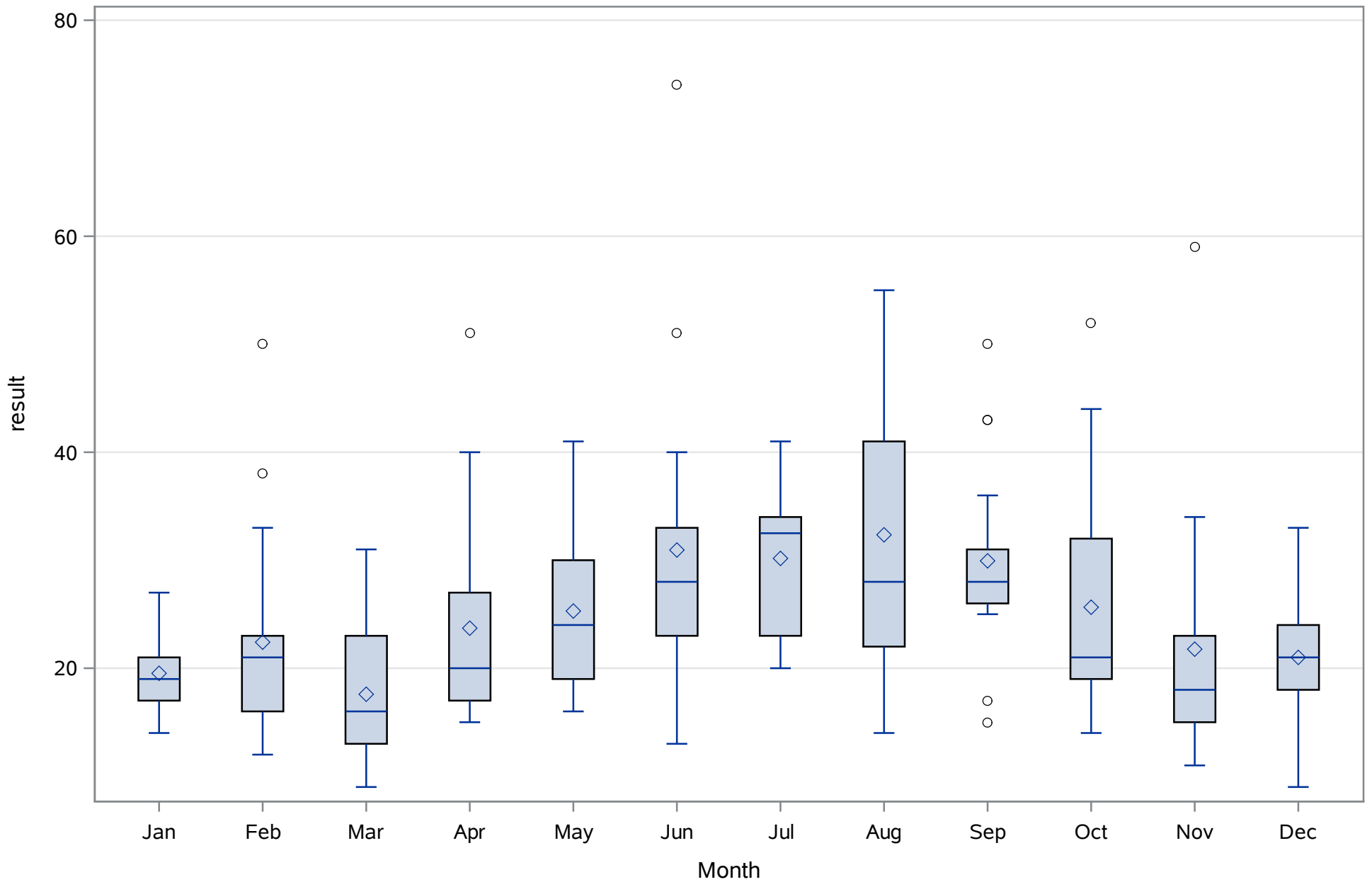
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Light, Attenuation Coefficient Kd/m



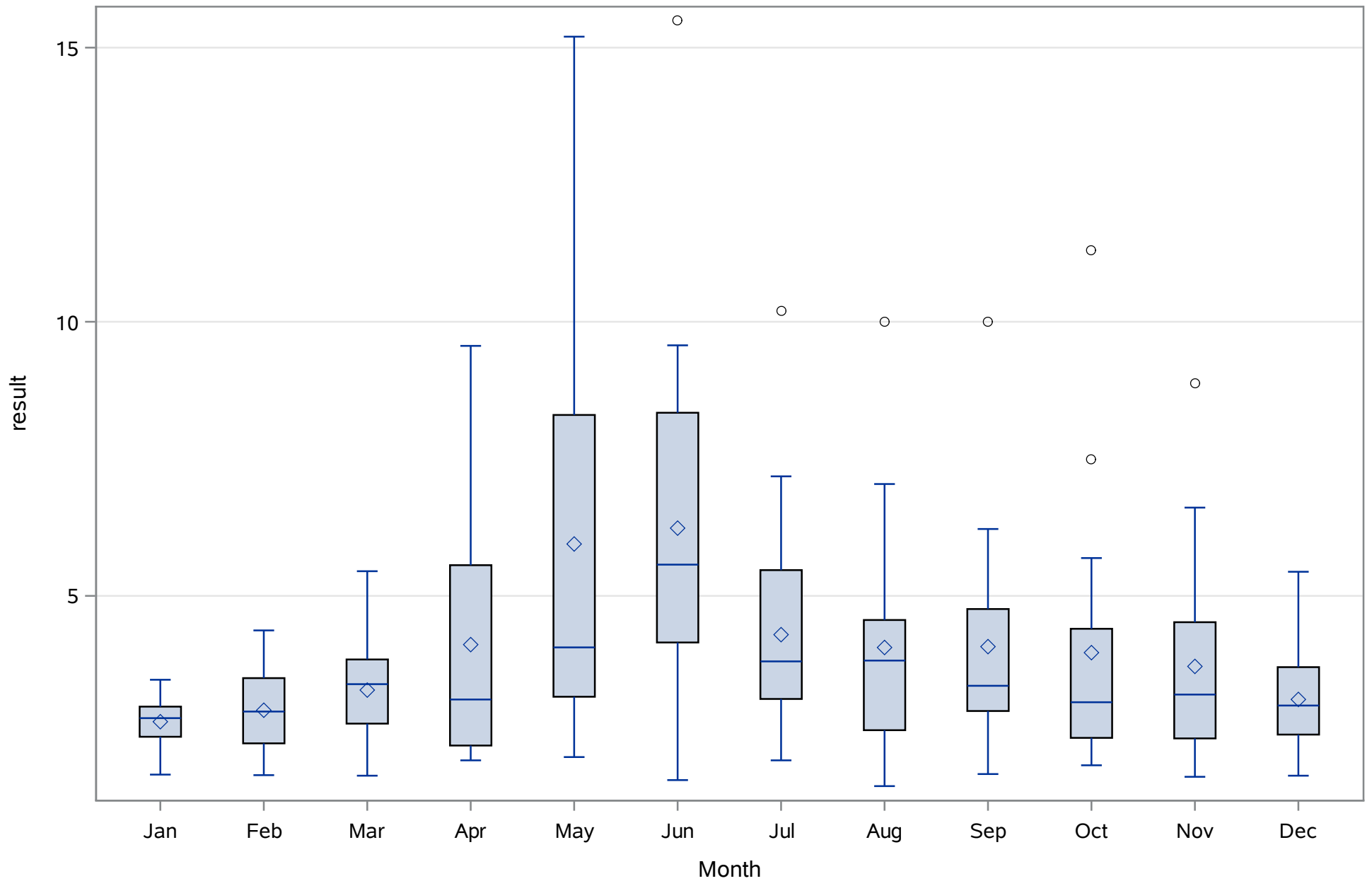
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Nitrogen- Total (Total) ug/L



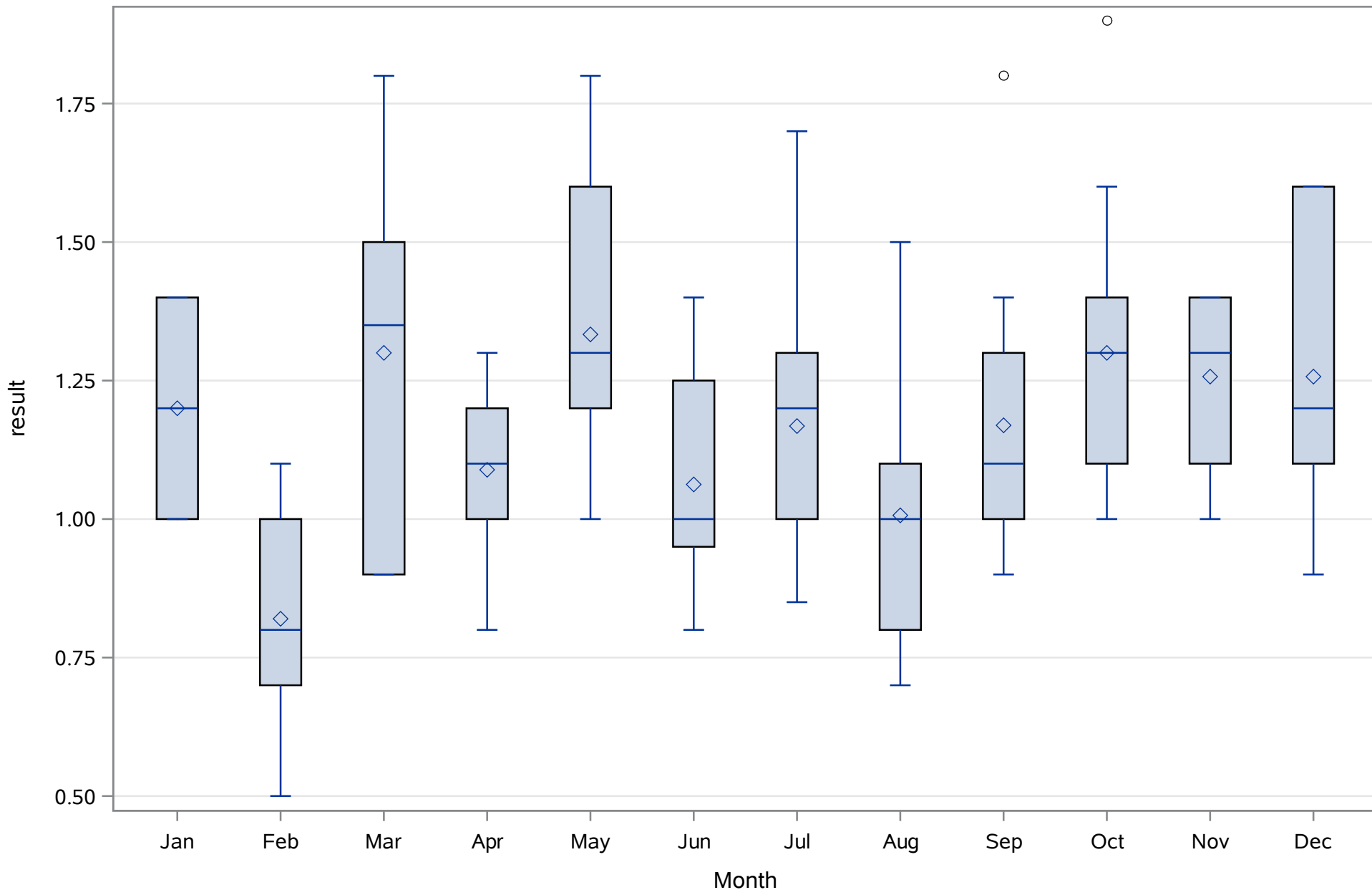
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Phosphorus- Total (Total) ug/L



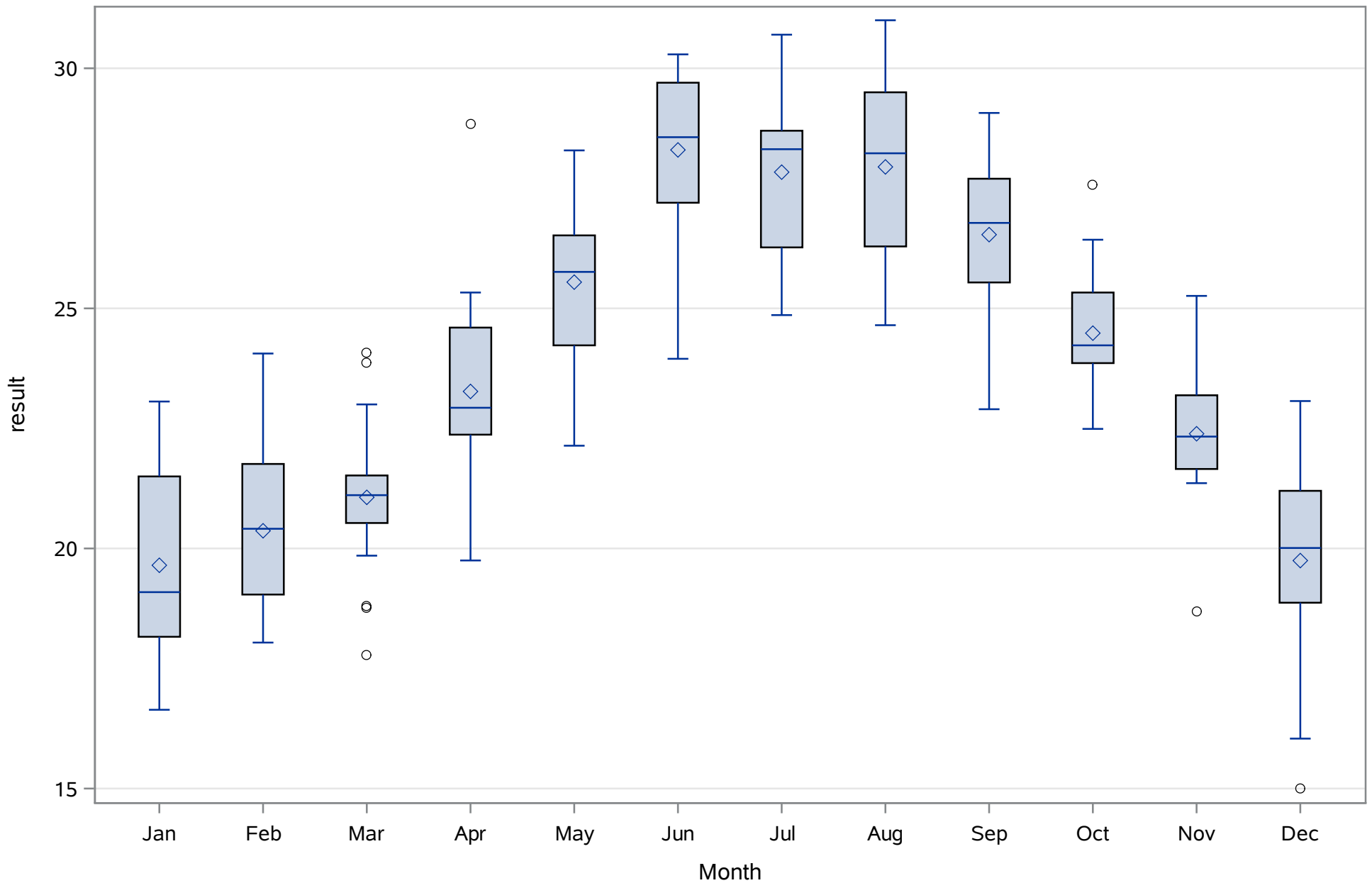
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Salinity (Total) ppth



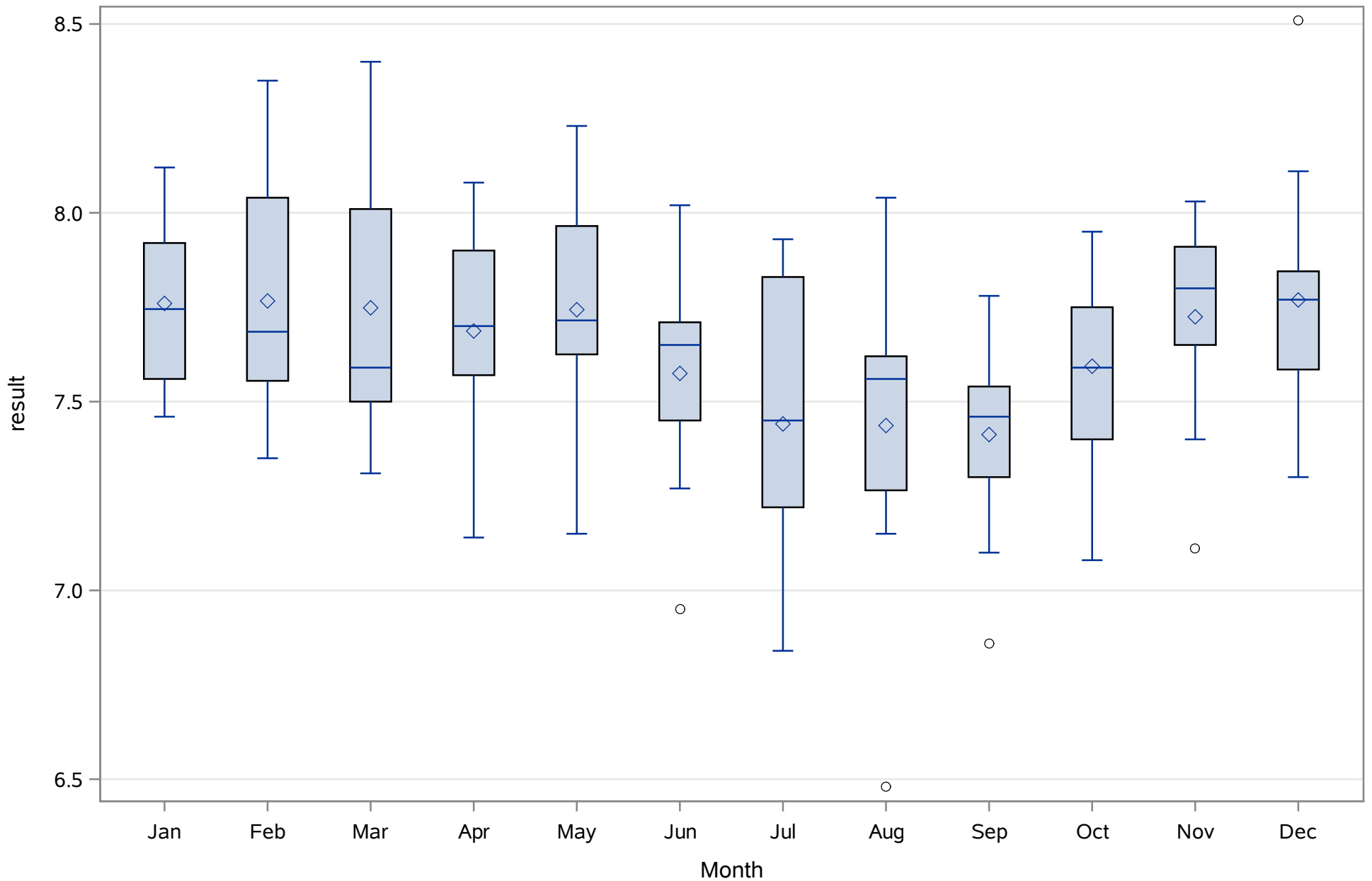
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 2
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Total)	mg/L	MAR1992	SEP1998	28	3.6%	0.0%	3.6%
Ammonia (N) (Total)	mg/L	MAR1992	SEP1998	29	6.9%	0.0%	3.4%
Calcium (Dissolved)	mg/L	MAR1994	SEP1996	8	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	DEC1992	SEP1998	24	8.3%	0.0%	4.2%
Carbon- Total Organic (Total)	mg/L	MAR1992	SEP1998	29	10.3%	0.0%	3.4%
Chloride (Dissolved)	mg/L	DEC1992	SEP1997	21	0.0%	0.0%	0.0%
Chloride (Total)	mg/L	JAN1998	SEP1998	5	0.0%	0.0%	0.0%
Chlorophyll (Total)	ug/L	MAR1992	SEP1998	26	0.0%	0.0%	0.0%
Chlorophyll a (Total)	ug/L	MAR1994	SEP1998	32	0.0%	0.0%	0.0%
Chlorophyll b (Total)	ug/L	MAR1994	SEP1998	26	3.8%	0.0%	0.0%
Chlorophyll c (Total)	ug/L	MAR1994	SEP1998	27	7.4%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	MAR1992	SEP1998	30	10.0%	0.0%	6.7%
Coliform Total (Total)	cfu/100 mL	SEP1995	SEP1998	19	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	MAR1992	SEP1998	29	6.9%	0.0%	3.4%
Depth (Total)	Ft.	MAR1992	JUL1998	25	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	MAR1992	JUL1998	27	0.0%	0.0%	0.0%
Fluoride (Total)	mg/L	DEC1992	SEP1998	26	0.0%	0.0%	0.0%
Iron (Total)	ug/L	MAY1998	MAY1998	1	0.0%	0.0%	100.0%
Magnesium (Dissolved)	mg/L	JUL1997	SEP1997	2	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	DEC1992	SEP1998	25	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	DEC1995	SEP1997	11	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	MAR1992	SEP1998	19	0.0%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	MAR1996	SEP1997	9	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	DEC1995	DEC1995	1	0.0%	0.0%	100.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	MAR1992	SEP1998	29	6.9%	0.0%	3.4%
Orthophosphate (P) (Dissolved)	mg/L	JAN1998	SEP1998	5	0.0%	0.0%	0.0%
Orthophosphate (P) (Total)	mg/L	MAR1994	SEP1997	10	0.0%	0.0%	0.0%
Phaeophytin (Total)	mg/L	JUL1995	JUL1995	1	100.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	MAR1992	SEP1998	32	3.1%	0.0%	3.1%
Phosphorus- Total (Total)	mg/L	MAR1992	SEP1998	29	3.4%	0.0%	3.4%
Potassium (Dissolved)	mg/L	MAR1994	SEP1996	8	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	DEC1992	SEP1998	24	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	MAR1994	SEP1998	22	4.5%	0.0%	4.5%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Residues- Nonfilterable (TSS) (Total)	mg/L	MAR1992	SEP1998	28	0.0%	0.0%	0.0%
Salinity (Total)	ppth	MAR1994	JUL1998	20	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	MAR1994	SEP1996	9	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	DEC1992	SEP1998	23	4.3%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	MAR1992	SEP1998	32	6.3%	0.0%	3.1%
Sulfate (Dissolved)	mg/L	DEC1992	SEP1997	21	0.0%	0.0%	0.0%
Sulfate (Total)	mg/L	JAN1998	SEP1998	5	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	MAR1992	JUL1998	27	0.0%	0.0%	0.0%
Total depth at monitored location	Meters	MAR1992	JUL1998	27	0.0%	0.0%	0.0%
Transparency (Total)	Meters	MAR1992	JUL1997	22	0.0%	0.0%	0.0%
Turbidity (Total)	FTU	MAR1992	SEP1998	28	0.0%	0.0%	0.0%
pH (Total)	SU	MAR1992	JUL1998	27	3.7%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Alkalinity (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	141.464286	Sum Observations	3961
Std Deviation	15.4739498	Variance	239.443122
Skewness	-2.7453606	Kurtosis	9.60837522
Uncorrected SS	566805	Corrected SS	6464.96429
Coeff Variation	10.9384144	Std Error Mean	2.92430164

Basic Statistical Measures			
Location		Variability	
Mean	141.4643	Std Deviation	15.47395
Median	145.0000	Variance	239.44312
Mode	148.0000	Range	80.00000
		Interquartile Range	7.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	48.37541	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	159.0
99%	159.0
95%	157.0
90%	155.0
75% Q3	148.0
50% Median	145.0
25% Q1	140.5
10%	123.0
5%	115.0
1%	79.0
0% Min	79.0

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
79	15	151	23
115	3	152	26
123	10	155	21
131	2	157	7
131	1	159	22

Chassahowitzka River - Fixed Station

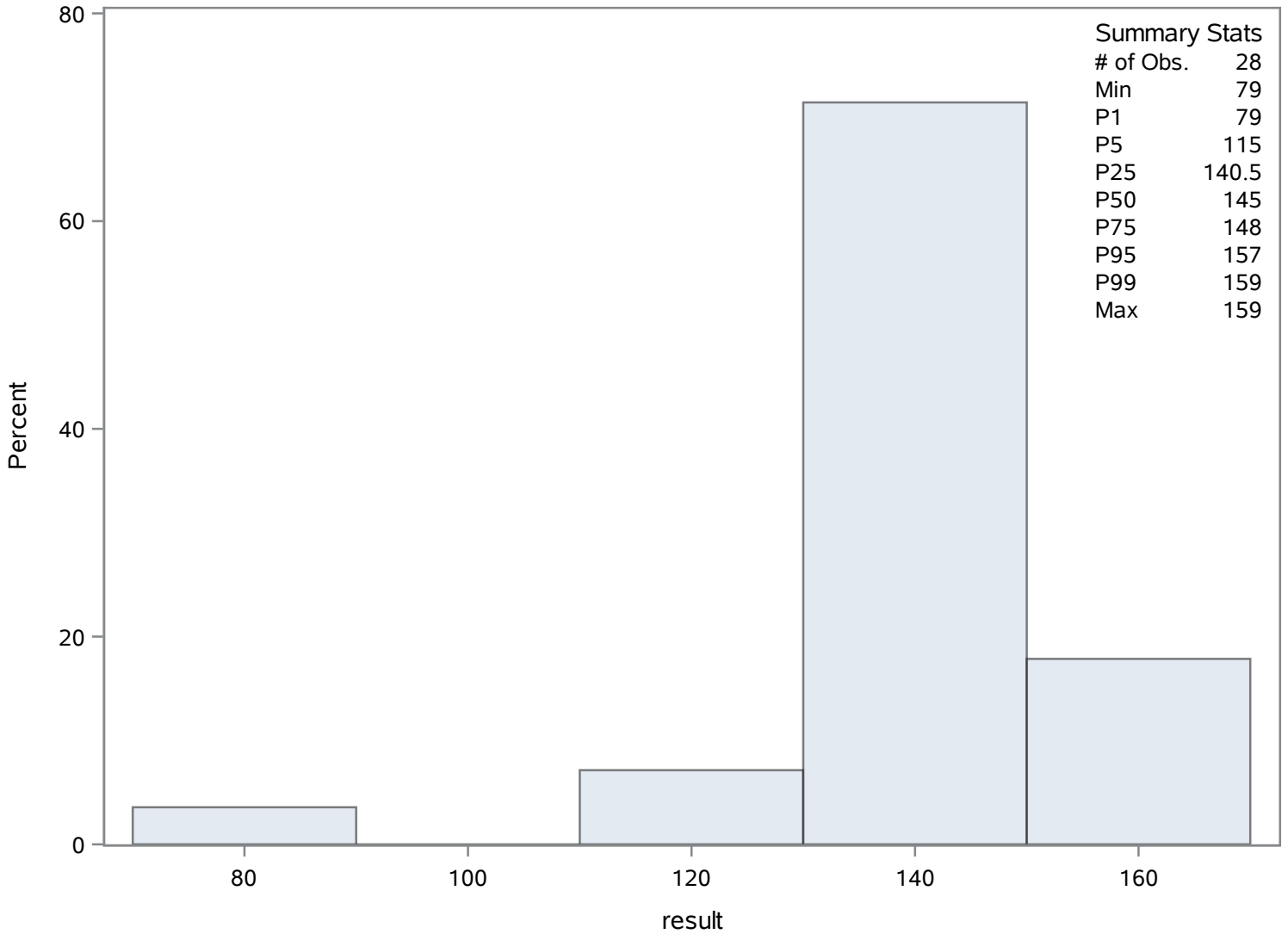
Source: Inactive

Chassahowitzka River AB Gulf

Alkalinity (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	29	Sum Weights	29
Mean	0.01813793	Sum Observations	0.526
Std Deviation	0.01081574	Variance	0.00011698
Skewness	1.60422749	Kurtosis	3.7889224
Uncorrected SS	0.012816	Corrected SS	0.00327545
Coeff Variation	59.630522	Std Error Mean	0.00200843

Basic Statistical Measures			
Location		Variability	
Mean	0.018138	Std Deviation	0.01082
Median	0.017000	Variance	0.0001170
Mode	0.020000	Range	0.05100
		Interquartile Range	0.00800

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.030887	Pr > t 	<.0001
Sign	M	14.5	Pr >= M 	<.0001
Signed Rank	S	217.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.052
99%	0.052
95%	0.047
90%	0.030
75% Q3	0.020
50% Median	0.017
25% Q1	0.012
10%	0.008
5%	0.003
1%	0.001
0% Min	0.001

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	41	0.022	39
0.003	46	0.027	45
0.008	48	0.030	43
0.009	40	0.047	44
0.010	55	0.052	52

Chassahowitzka River - Fixed Station

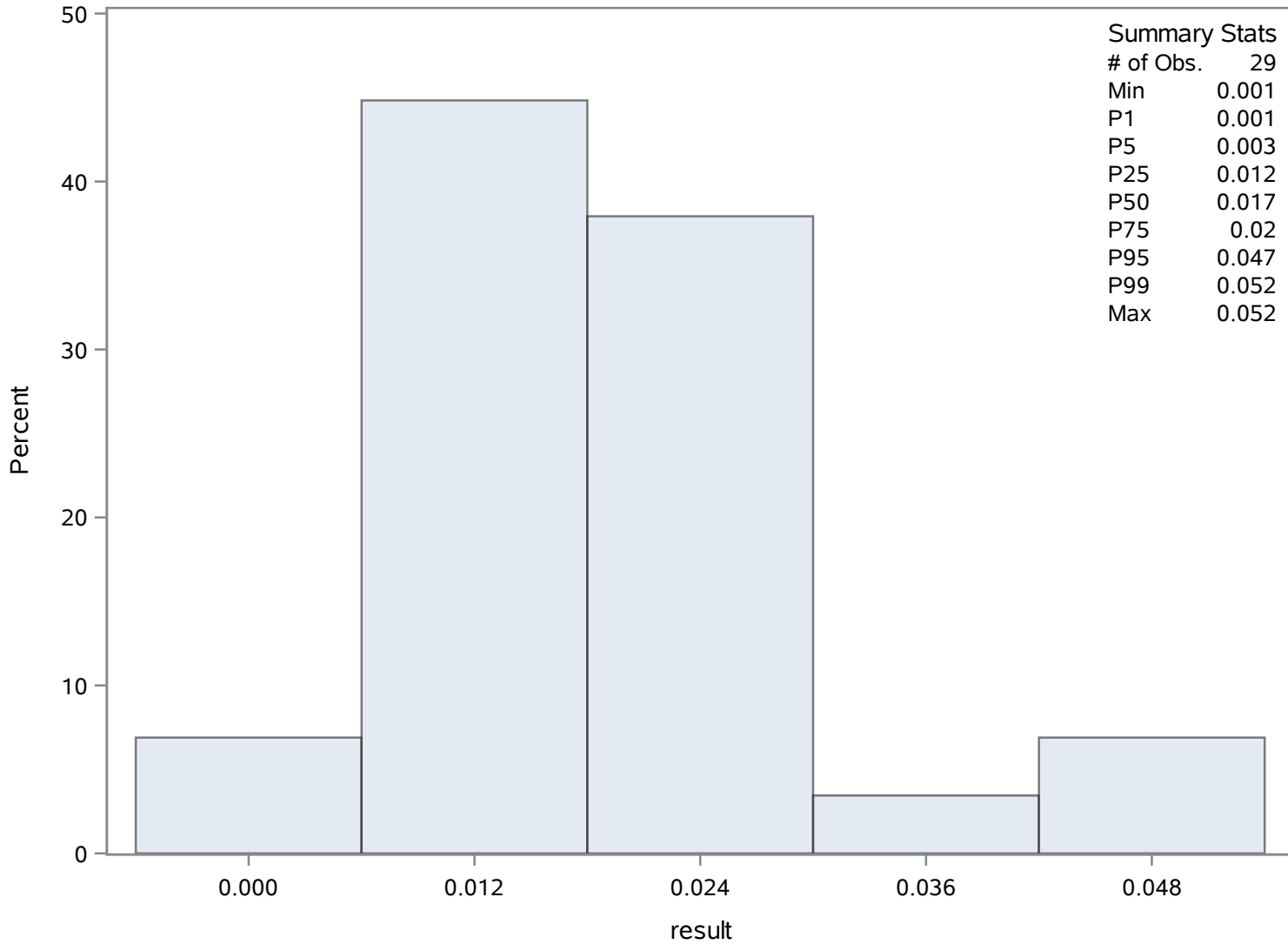
Source: Inactive

Chassahowitzka River AB Gulf

Ammonia (N) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Calcium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	87.76875	Sum Observations	2106.45
Std Deviation	25.3075166	Variance	640.470394
Skewness	2.01786554	Kurtosis	5.35372933
Uncorrected SS	199611.303	Corrected SS	14730.8191
Coeff Variation	28.8343135	Std Error Mean	5.16587518

Basic Statistical Measures			
Location		Variability	
Mean	87.76875	Std Deviation	25.30752
Median	83.87500	Variance	640.47039
Mode	68.40000	Range	111.20000
		Interquartile Range	28.05000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.9901	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	175.000
99%	175.000
95%	132.100
90%	108.000
75% Q3	96.450
50% Median	83.875
25% Q1	68.400
10%	64.800
5%	64.400
1%	63.800
0% Min	63.800

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Calcium (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
63.8	71	104.0	69
64.4	78	106.0	75
64.8	77	108.0	67
65.6	79	132.1	74
68.3	80	175.0	72

Chassahowitzka River - Fixed Station

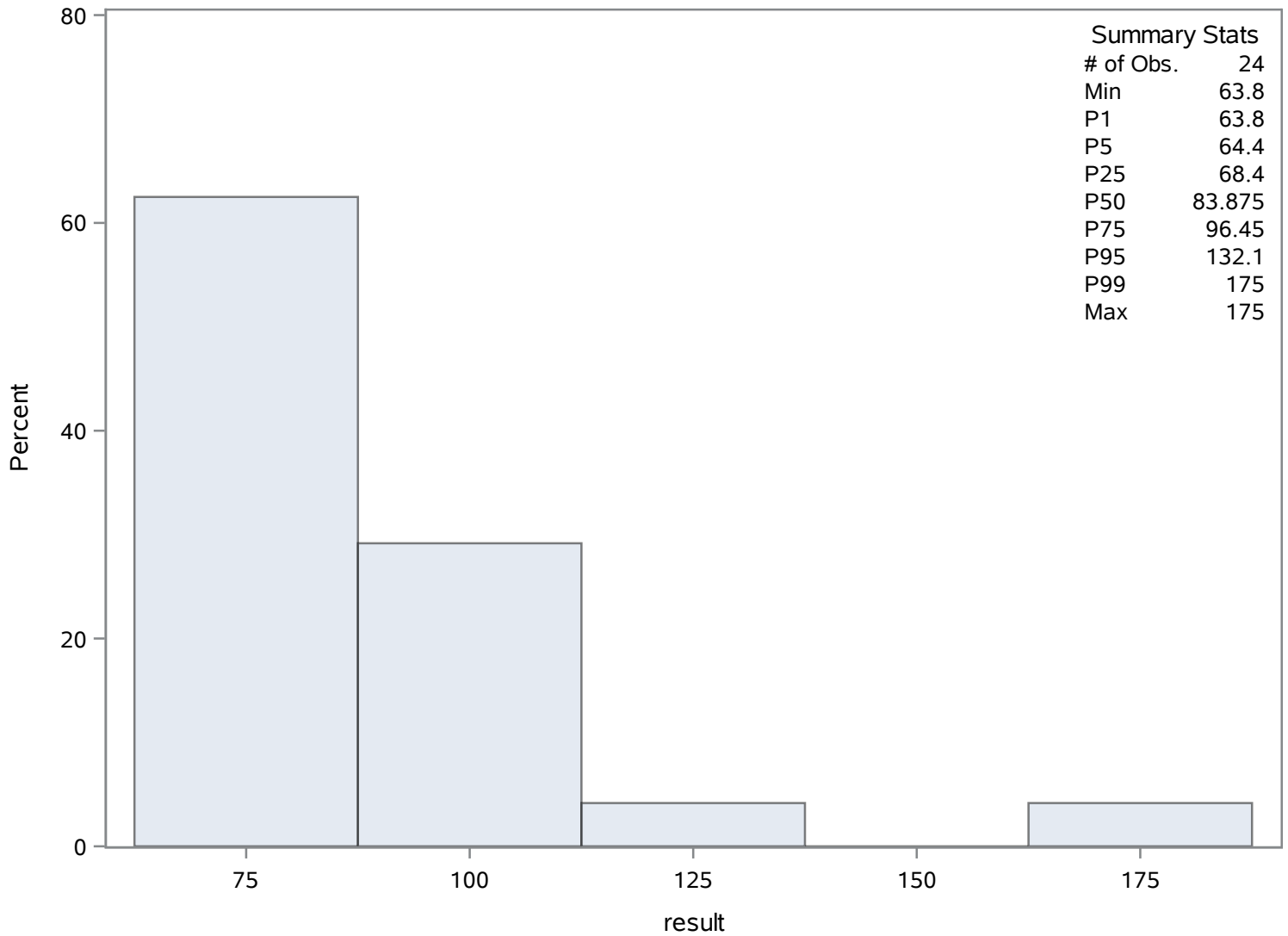
Source: Inactive

Chassahowitzka River AB Gulf

Calcium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	29	Sum Weights	29
Mean	1.40103448	Sum Observations	40.63
Std Deviation	0.90519668	Variance	0.81938103
Skewness	1.82611999	Kurtosis	4.40414438
Uncorrected SS	79.8667	Corrected SS	22.942669
Coeff Variation	64.6091651	Std Error Mean	0.1680908

Basic Statistical Measures			
Location		Variability	
Mean	1.401034	Std Deviation	0.90520
Median	1.160000	Variance	0.81938
Mode	1.600000	Range	4.12000
		Interquartile Range	0.73000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.334986	Pr > t 	<.0001
Sign	M	14.5	Pr >= M 	<.0001
Signed Rank	S	217.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.50
99%	4.50
95%	3.50
90%	2.30
75% Q3	1.70
50% Median	1.16
25% Q1	0.97
10%	0.45
5%	0.39
1%	0.38
0% Min	0.38

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.38	103	2.0	87
0.39	100	2.2	84
0.45	101	2.3	83
0.51	90	3.5	110
0.58	102	4.5	109

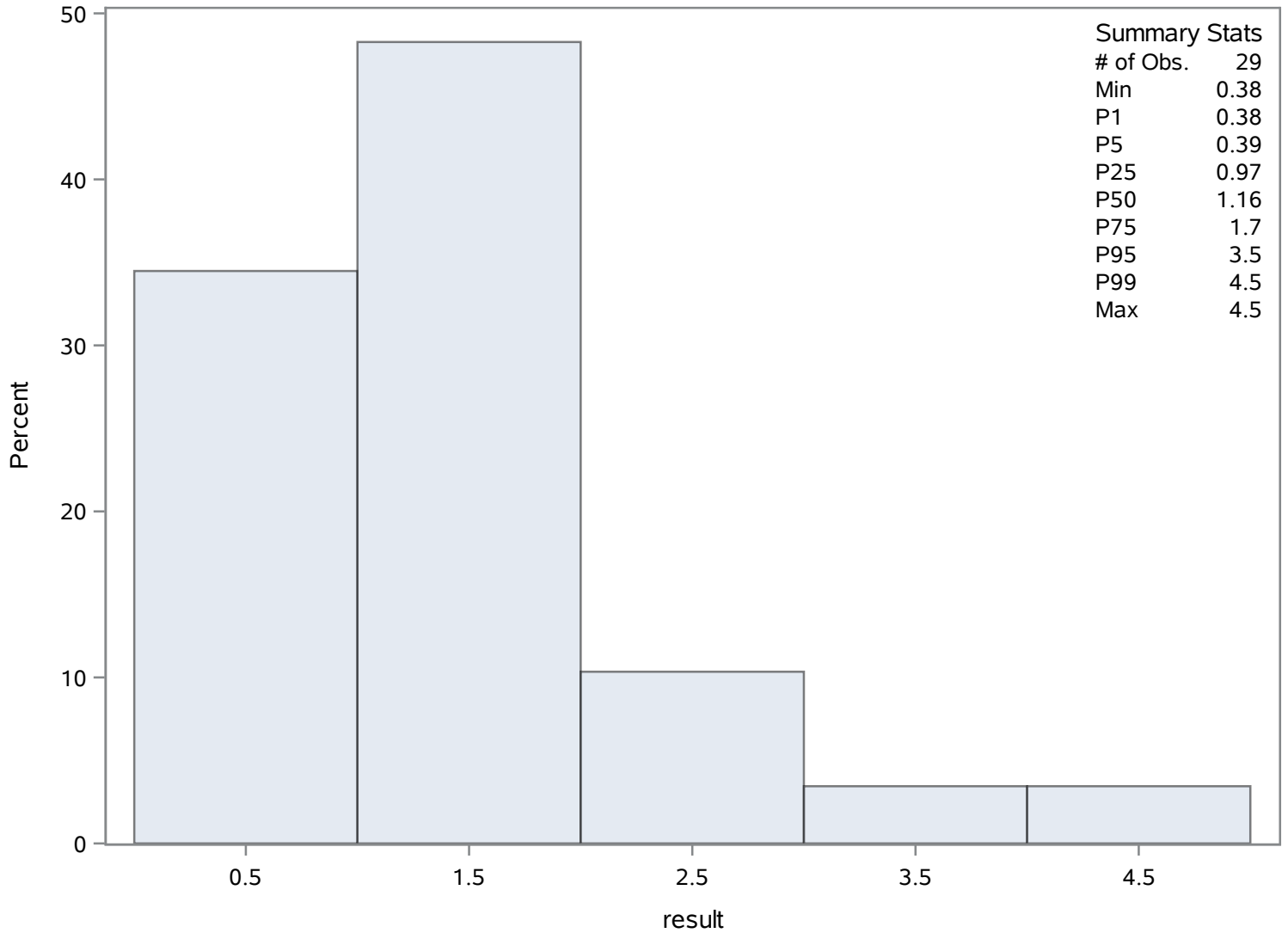
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Carbon- Total Organic (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	1198.57143	Sum Observations	25170
Std Deviation	226.291089	Variance	51207.6571
Skewness	0.17999157	Kurtosis	-0.7582218
Uncorrected SS	31192196	Corrected SS	1024153.14
Coeff Variation	18.8800671	Std Error Mean	49.3807641

Basic Statistical Measures			
Location		Variability	
Mean	1198.571	Std Deviation	226.29109
Median	1180.000	Variance	51208
Mode	1200.000	Range	784.00000
		Interquartile Range	384.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	24.27203	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1605
99%	1605
95%	1600
90%	1442
75% Q3	1394
50% Median	1180
25% Q1	1010
10%	910
5%	876
1%	821
0% Min	821

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
821	123	1400	113
876	122	1402	121
910	124	1442	131
965	125	1600	115
1006	126	1605	118

Chassahowitzka River - Fixed Station

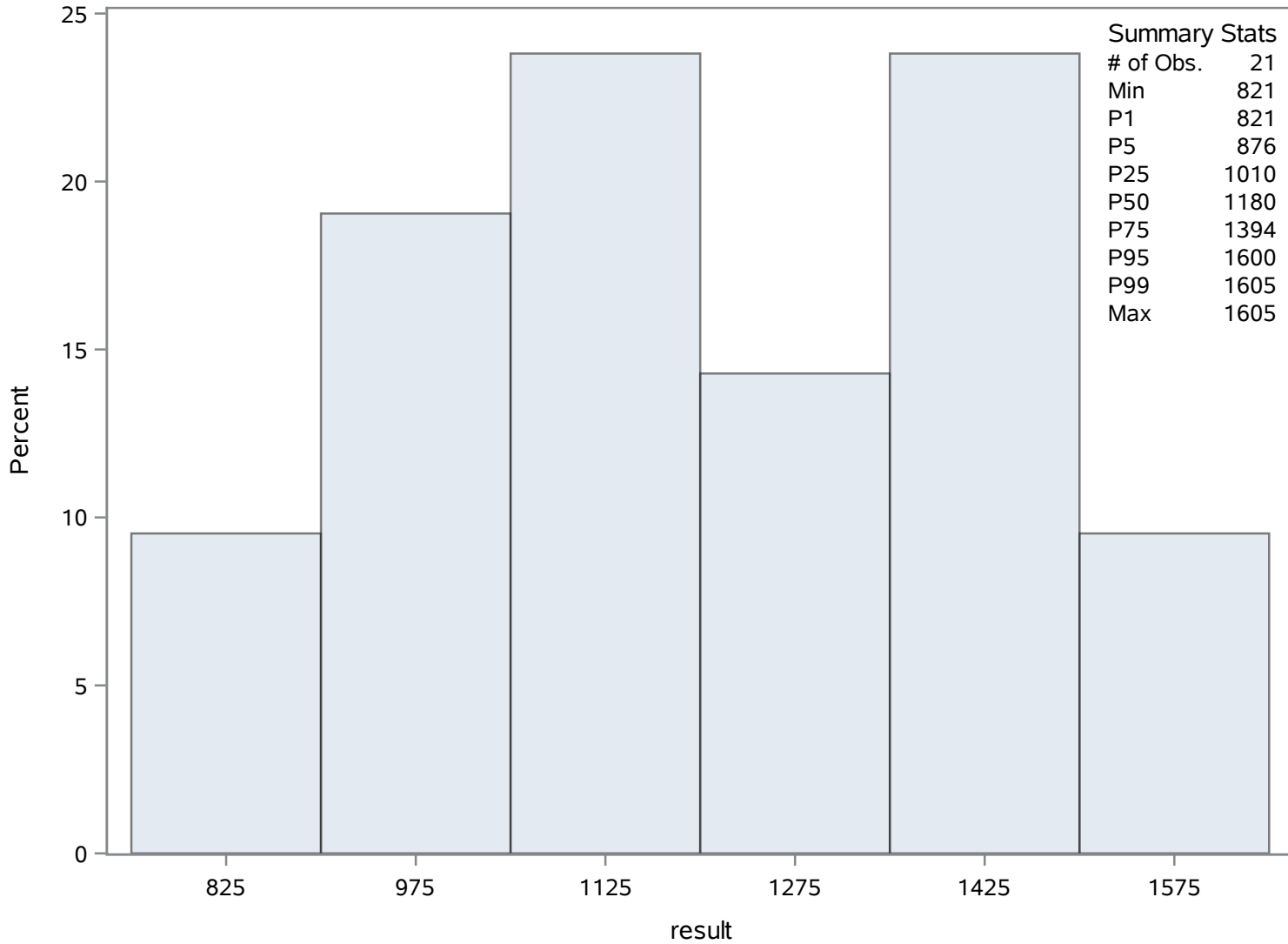
Source: Inactive

Chassahowitzka River AB Gulf

Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	26	Sum Weights	26
Mean	3.30965385	Sum Observations	86.051
Std Deviation	2.36650779	Variance	5.60035912
Skewness	0.51086516	Kurtosis	-0.8047665
Uncorrected SS	424.808001	Corrected SS	140.008978
Coeff Variation	71.5031813	Std Error Mean	0.46411036

Basic Statistical Measures			
Location		Variability	
Mean	3.309654	Std Deviation	2.36651
Median	2.885000	Variance	5.60036
Mode	.	Range	8.55100
		Interquartile Range	4.44000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.131179	Pr > t 	<.0001
Sign	M	13	Pr >= M 	<.0001
Signed Rank	S	175.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.751
99%	8.751
95%	6.530
90%	6.240
75% Q3	5.550
50% Median	2.885
25% Q1	1.110
10%	0.880
5%	0.420
1%	0.200
0% Min	0.200

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	135	5.880	134
0.42	142	6.110	150
0.88	143	6.240	140
0.99	144	6.530	132
1.00	146	8.751	139

Chassahowitzka River - Fixed Station

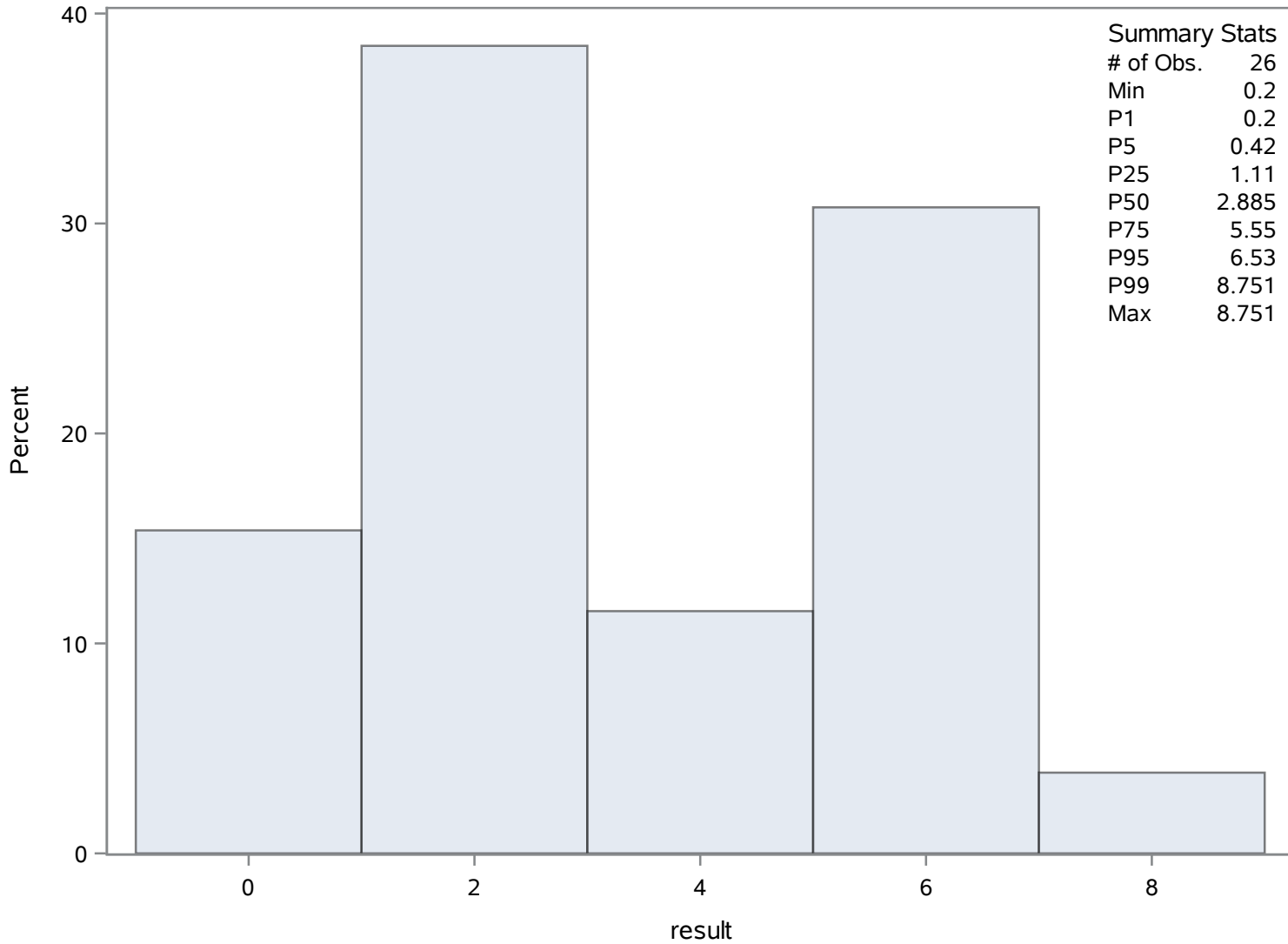
Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	32	Sum Weights	32
Mean	3.943125	Sum Observations	126.18
Std Deviation	3.0048632	Variance	9.02920282
Skewness	1.19193462	Kurtosis	0.49888431
Uncorrected SS	777.4488	Corrected SS	279.905287
Coeff Variation	76.2051215	Std Error Mean	0.53118979

Basic Statistical Measures			
Location		Variability	
Mean	3.943125	Std Deviation	3.00486
Median	2.760000	Variance	9.02920
Mode	2.020000	Range	10.98000
		Interquartile Range	4.17500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.423194	Pr > t 	<.0001
Sign	M	16	Pr >= M 	<.0001
Signed Rank	S	264	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.800
99%	11.800
95%	10.930
90%	8.130
75% Q3	5.880
50% Median	2.760
25% Q1	1.705
10%	1.440
5%	1.040
1%	0.820
0% Min	0.820

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.82	168	7.61	171
1.04	163	8.13	169
1.06	186	8.60	162
1.44	175	10.93	160
1.49	189	11.80	161

Chassahowitzka River - Fixed Station

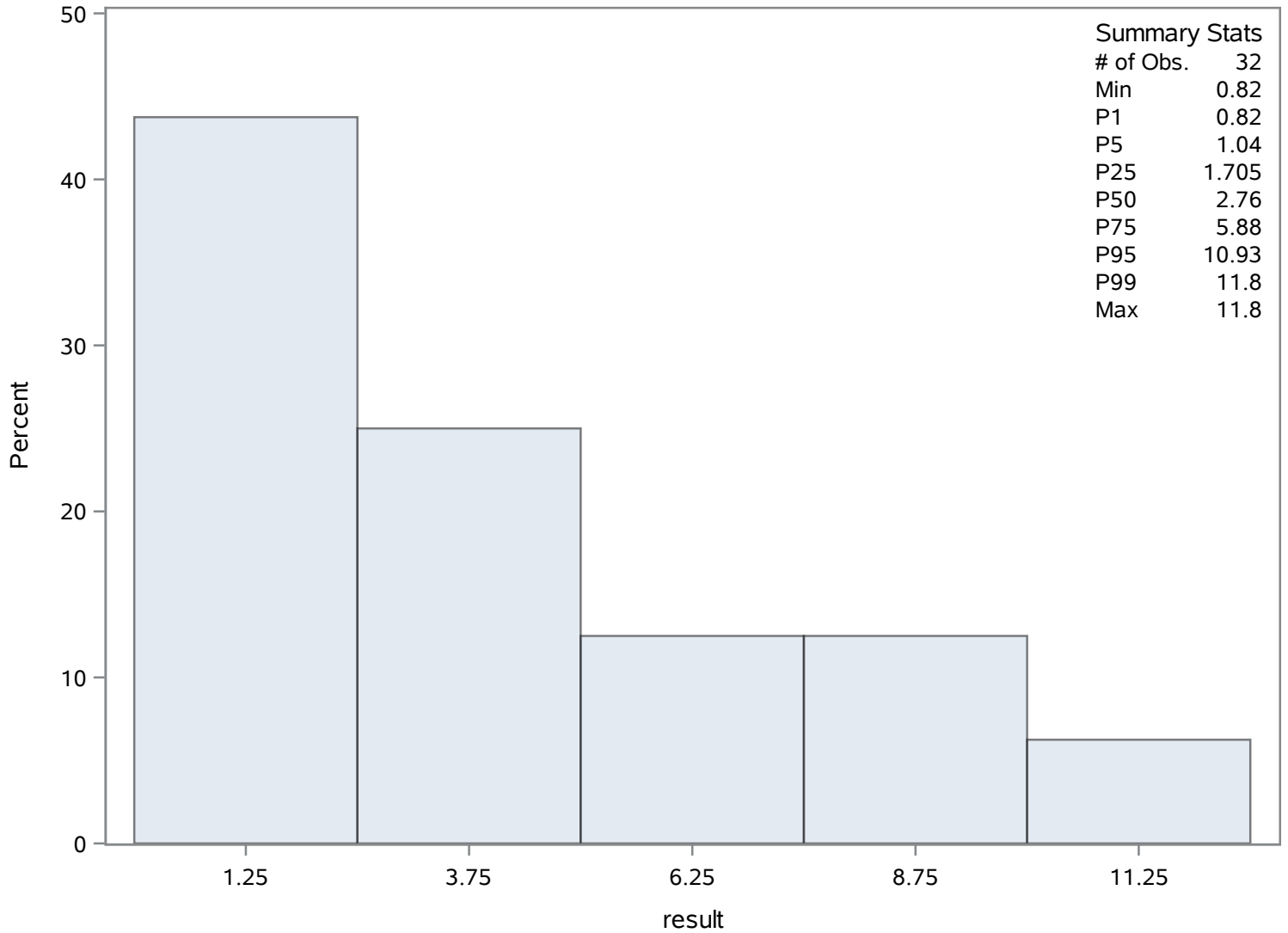
Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll b (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	26	Sum Weights	26
Mean	0.86361538	Sum Observations	22.454
Std Deviation	0.42899213	Variance	0.18403425
Skewness	0.16980568	Kurtosis	2.21851189
Uncorrected SS	23.992476	Corrected SS	4.60085615
Coeff Variation	49.6739794	Std Error Mean	0.08413228

Basic Statistical Measures			
Location		Variability	
Mean	0.863615	Std Deviation	0.42899
Median	1.000000	Variance	0.18403
Mode	1.000000	Range	2.10000
		Interquartile Range	0.36000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.26497	Pr > t 	<.0001
Sign	M	13	Pr >= M 	<.0001
Signed Rank	S	175.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.110
99%	2.110
95%	1.220
90%	1.140
75% Q3	1.000
50% Median	1.000
25% Q1	0.640
10%	0.124
5%	0.100
1%	0.010
0% Min	0.010

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll b (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	194	1.00	215
0.100	195	1.13	191
0.124	192	1.14	198
0.370	205	1.22	201
0.390	203	2.11	196

Chassahowitzka River - Fixed Station

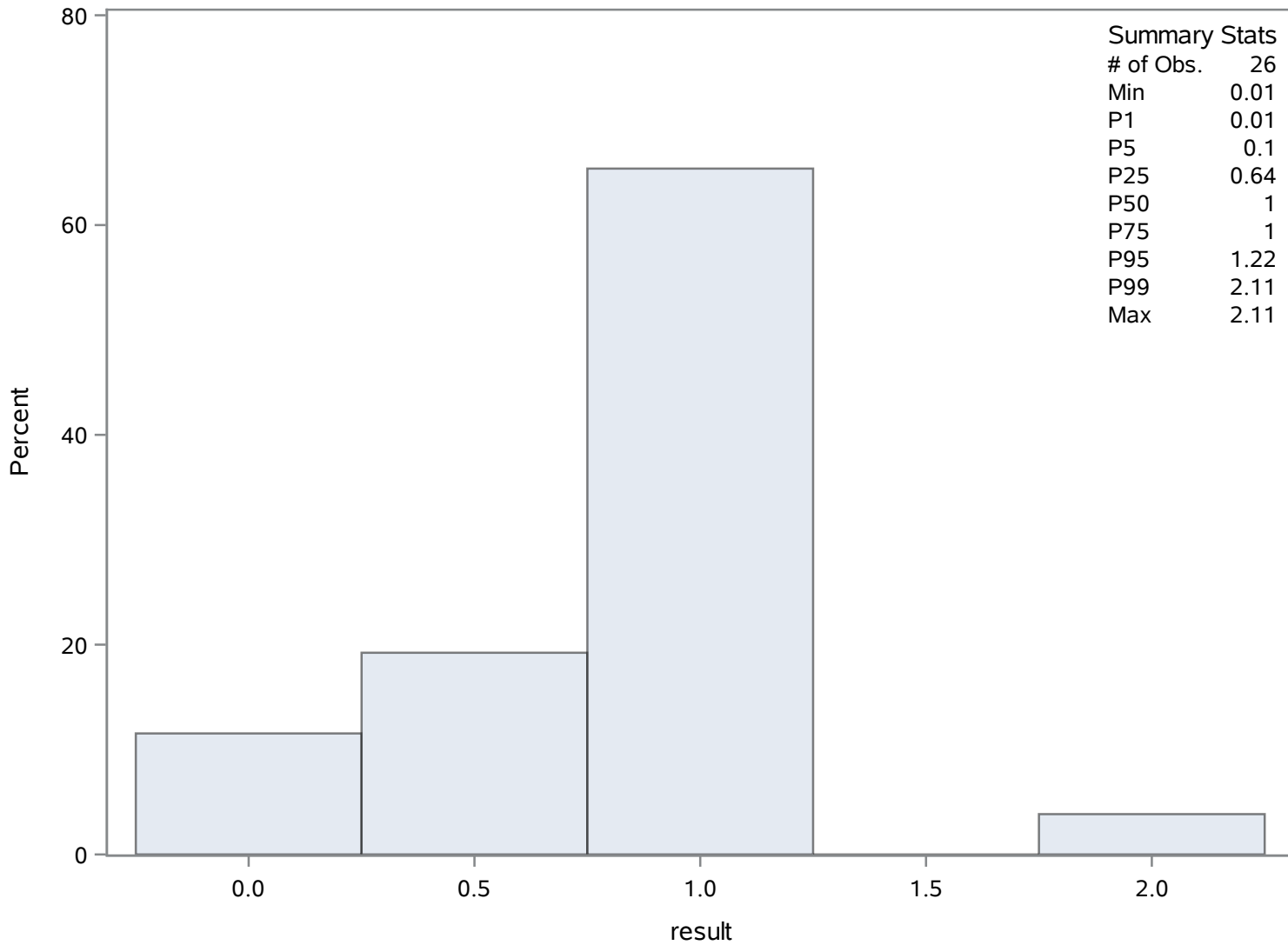
Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll b (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Summary Stats

# of Obs.	26
Min	0.01
P1	0.01
P5	0.1
P25	0.64
P50	1
P75	1
P95	1.22
P99	2.11
Max	2.11

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll c (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	27	Sum Weights	27
Mean	0.92011111	Sum Observations	24.843
Std Deviation	0.54959386	Variance	0.30205341
Skewness	0.82639154	Kurtosis	1.76908948
Uncorrected SS	30.711709	Corrected SS	7.85338867
Coeff Variation	59.7312491	Std Error Mean	0.10576939

Basic Statistical Measures			
Location		Variability	
Mean	0.920111	Std Deviation	0.54959
Median	1.000000	Variance	0.30205
Mode	1.000000	Range	2.33000
		Interquartile Range	0.44000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.699219	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.400
99%	2.400
95%	2.170
90%	1.753
75% Q3	1.000
50% Median	1.000
25% Q1	0.560
10%	0.100
5%	0.070
1%	0.070
0% Min	0.070

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll c (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.07	225	1.080	220
0.07	222	1.090	229
0.10	221	1.753	218
0.13	226	2.170	224
0.45	217	2.400	219

Chassahowitzka River - Fixed Station

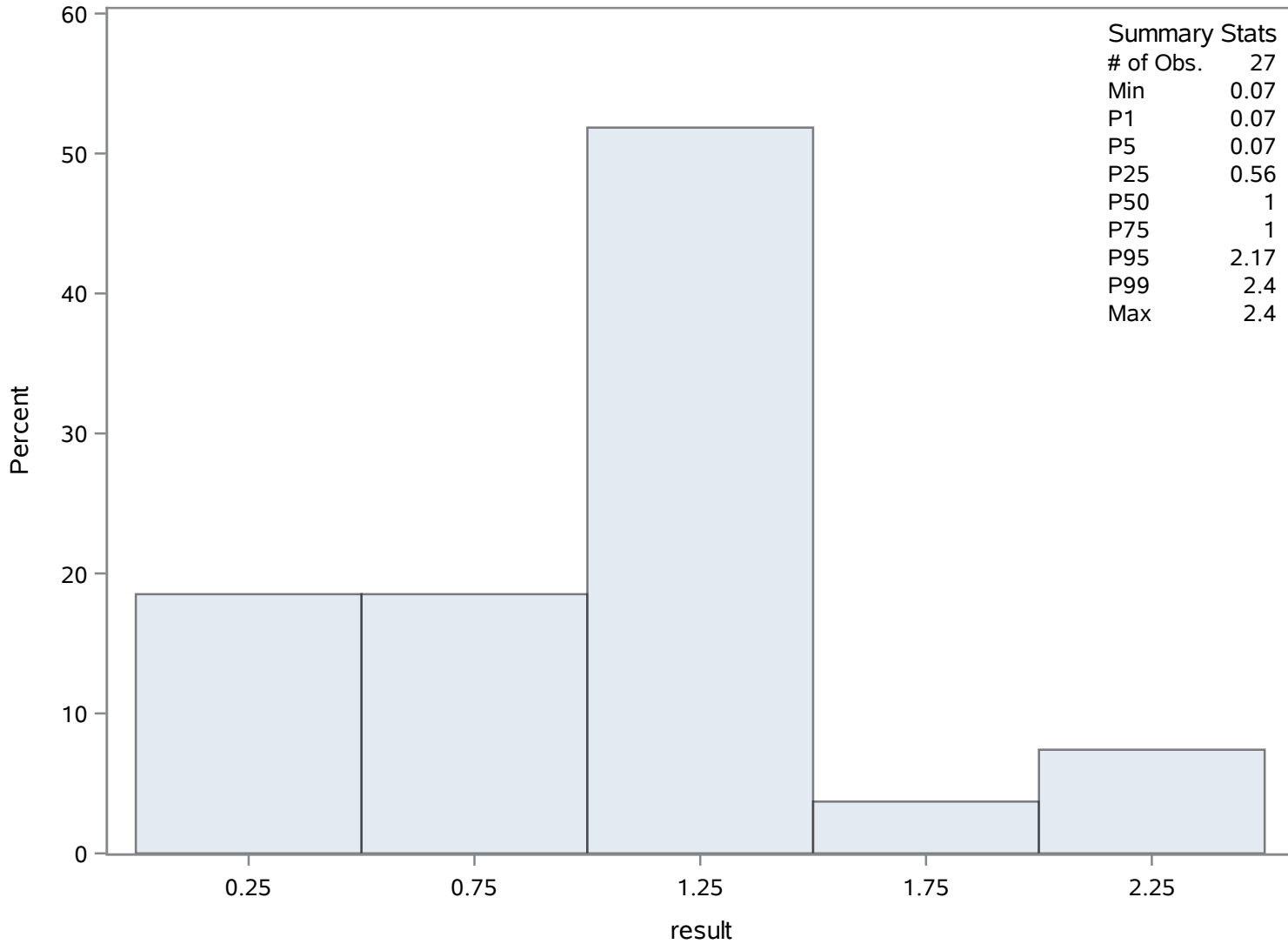
Source: Inactive

Chassahowitzka River AB Gulf

Chlorophyll c (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Coliform Fecal (Total) cfu/100 mL

The UNIVARIATE Procedure
Variable: result

Moments			
N	30	Sum Weights	30
Mean	140.900033	Sum Observations	4227.001
Std Deviation	198.917798	Variance	39568.2903
Skewness	2.6340594	Kurtosis	6.48686469
Uncorrected SS	1743065	Corrected SS	1147480.42
Coeff Variation	141.176544	Std Error Mean	36.317255

Basic Statistical Measures			
Location		Variability	
Mean	140.9000	Std Deviation	198.91780
Median	85.0000	Variance	39568
Mode	100.0000	Range	799.99900
		Interquartile Range	86.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.879699	Pr > t 	0.0006
Sign	M	15	Pr >= M 	<.0001
Signed Rank	S	232.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	800.000
99%	800.000
95%	770.000
90%	380.000
75% Q3	122.000
50% Median	85.000
25% Q1	36.000
10%	20.000
5%	11.000
1%	0.001
0% Min	0.001

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Coliform Fecal (Total) cfu/100 mL

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	257	170	254
11.000	252	270	263
20.000	268	490	271
20.000	267	770	272
30.000	269	800	249

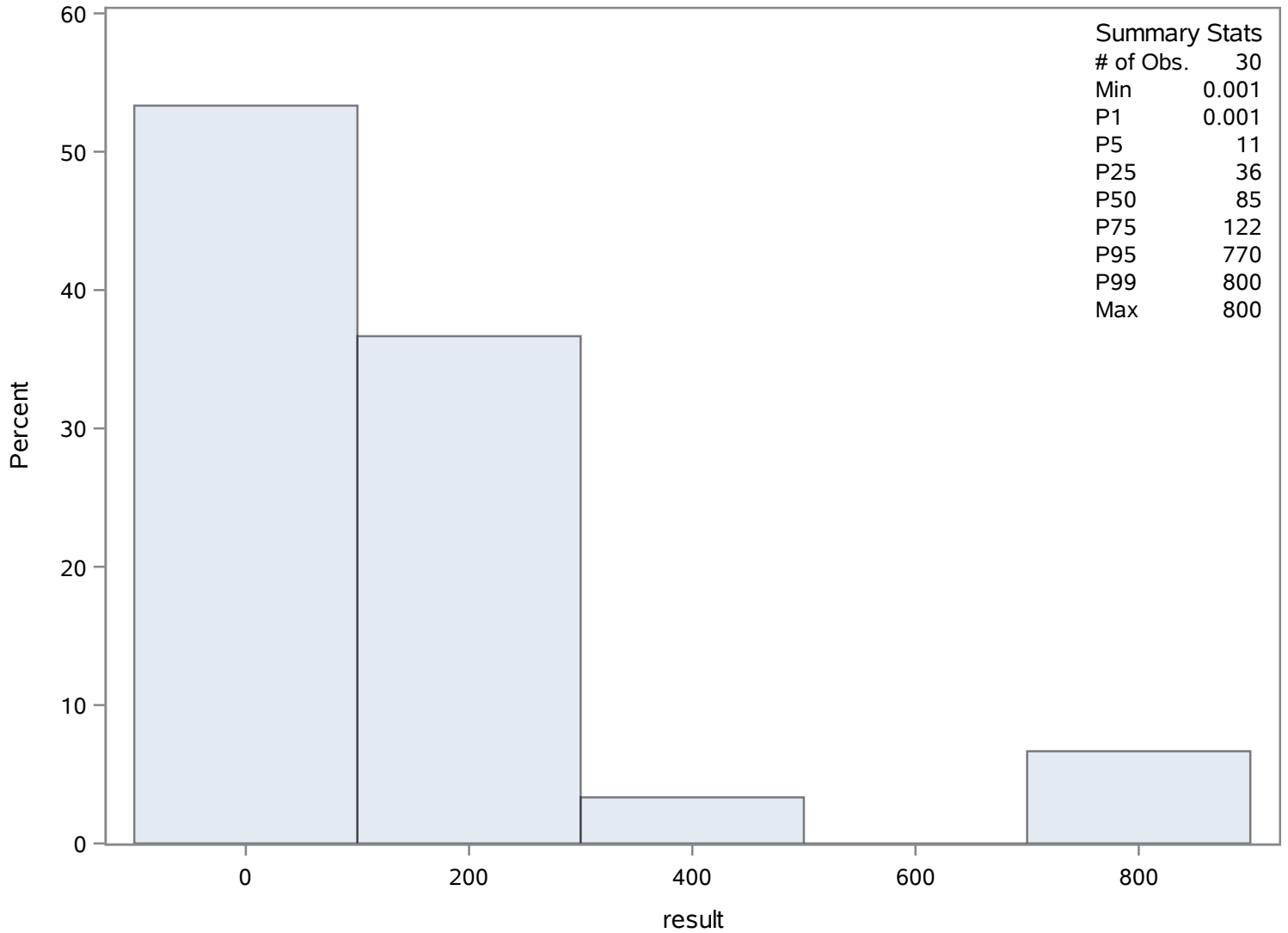
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Coliform Fecal (Total) cfu/100 mL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	29	Sum Weights	29
Mean	9.65517241	Sum Observations	280
Std Deviation	10.5162319	Variance	110.591133
Skewness	3.04122075	Kurtosis	9.35200178
Uncorrected SS	5800	Corrected SS	3096.55172
Coeff Variation	108.918116	Std Error Mean	1.95281524

Basic Statistical Measures			
Location		Variability	
Mean	9.655172	Std Deviation	10.51623
Median	5.000000	Variance	110.59113
Mode	5.000000	Range	45.00000
		Interquartile Range	5.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.944232	Pr > t 	<.0001
Sign	M	14.5	Pr >= M 	<.0001
Signed Rank	S	217.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	50
99%	50
95%	40
90%	15
75% Q3	10
50% Median	5
25% Q1	5
10%	5
5%	5
1%	5
0% Min	5

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Color (Dissolved) PCU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	296	15	280
5	295	15	297
5	294	15	298
5	293	40	300
5	292	50	301

Chassahowitzka River - Fixed Station

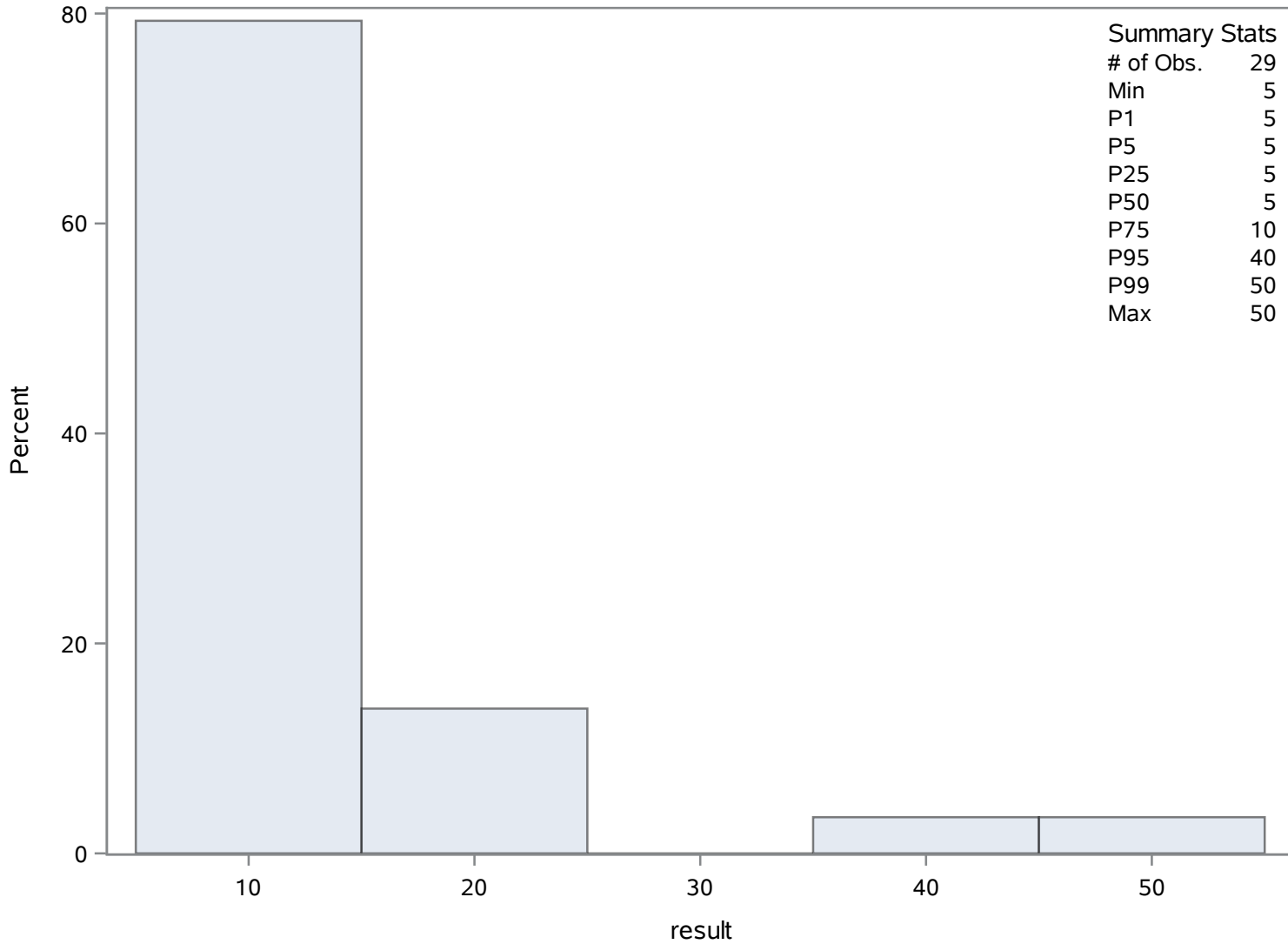
Source: Inactive

Chassahowitzka River AB Gulf

Color (Dissolved) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Depth (Total) Ft.

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	1.53768	Sum Observations	38.442
Std Deviation	0.61040535	Variance	0.3725947
Skewness	0.45320632	Kurtosis	1.53797505
Uncorrected SS	68.0537672	Corrected SS	8.94227268
Coeff Variation	39.6965138	Std Error Mean	0.12208107

Basic Statistical Measures			
Location		Variability	
Mean	1.537680	Std Deviation	0.61041
Median	1.600000	Variance	0.37259
Mode	1.600000	Range	2.90000
		Interquartile Range	0.62000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.59556	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.20
99%	3.20
95%	2.56
90%	2.10
75% Q3	1.90
50% Median	1.60
25% Q1	1.28
10%	0.96
5%	0.50
1%	0.30
0% Min	0.30

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Depth (Total) Ft.

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3000	317	1.92	312
0.5000	302	1.92	319
0.9600	320	2.10	304
0.9600	318	2.56	311
0.9843	324	3.20	307

Chassahowitzka River - Fixed Station

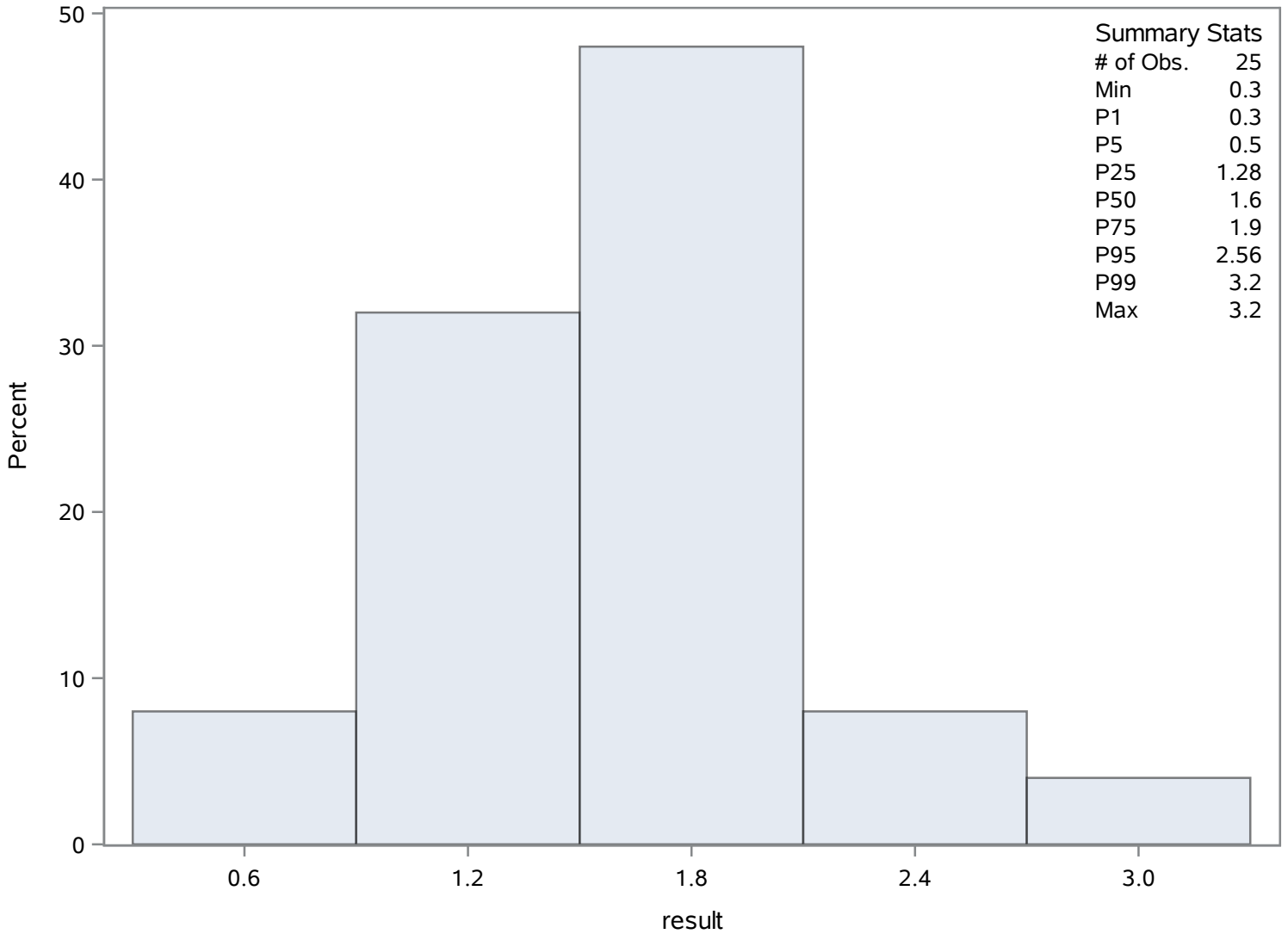
Source: Inactive

Chassahowitzka River AB Gulf

Depth (Total) Ft.

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	7.70407407	Sum Observations	208.01
Std Deviation	2.30849478	Variance	5.32914815
Skewness	0.3337571	Kurtosis	-0.2309236
Uncorrected SS	1741.0823	Corrected SS	138.557852
Coeff Variation	29.9645974	Std Error Mean	0.44427003

Basic Statistical Measures			
Location		Variability	
Mean	7.704074	Std Deviation	2.30849
Median	7.460000	Variance	5.32915
Mode	.	Range	9.06000
		Interquartile Range	3.03000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.34097	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.48
99%	12.48
95%	11.95
90%	11.65
75% Q3	9.41
50% Median	7.46
25% Q1	6.38
10%	4.63
5%	4.21
1%	3.42
0% Min	3.42

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.42	349	9.90	341
4.21	348	10.26	351
4.63	339	11.65	335
5.03	352	11.95	327
5.55	333	12.48	336

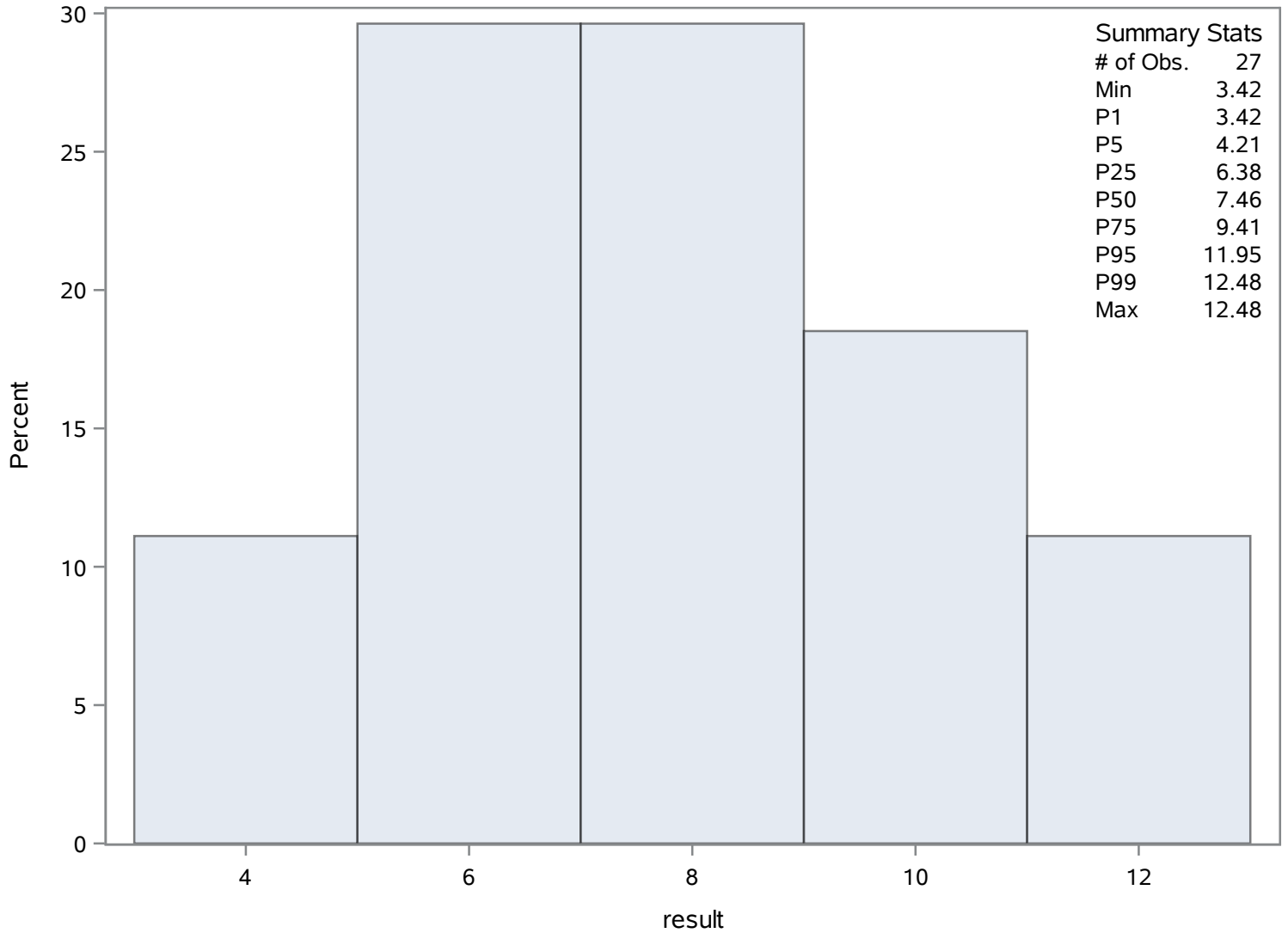
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Fluoride (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	26	Sum Weights	26
Mean	0.13888462	Sum Observations	3.611
Std Deviation	0.03340219	Variance	0.00111571
Skewness	0.47143288	Kurtosis	-0.6761952
Uncorrected SS	0.529405	Corrected SS	0.02789265
Coeff Variation	24.0503153	Std Error Mean	0.00655071

Basic Statistical Measures			
Location		Variability	
Mean	0.138885	Std Deviation	0.03340
Median	0.130000	Variance	0.00112
Mode	0.100000	Range	0.11600
		Interquartile Range	0.05100

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	21.20147	Pr > t 	<.0001
Sign	M	13	Pr >= M 	<.0001
Signed Rank	S	175.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.209
99%	0.209
95%	0.200
90%	0.190
75% Q3	0.160
50% Median	0.130
25% Q1	0.109
10%	0.100
5%	0.100
1%	0.093
0% Min	0.093

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Fluoride (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.093	372	0.167	367
0.100	377	0.180	371
0.100	375	0.190	360
0.100	357	0.200	358
0.100	355	0.209	369

Chassahowitzka River - Fixed Station

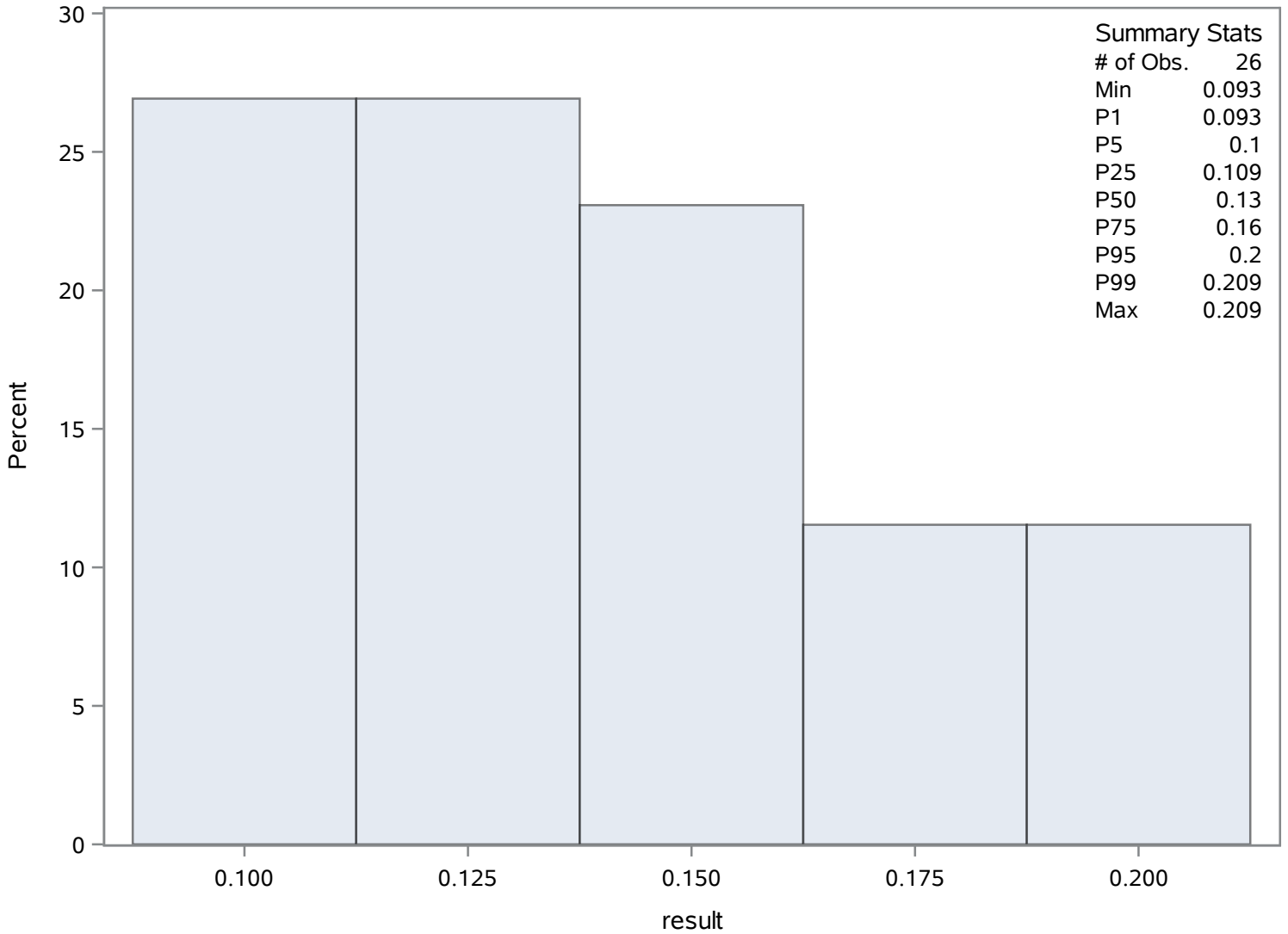
Source: Inactive

Chassahowitzka River AB Gulf

Fluoride (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Magnesium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	76.684	Sum Observations	1917.1
Std Deviation	15.1367566	Variance	229.1214
Skewness	0.18053671	Kurtosis	-0.7925692
Uncorrected SS	152509.81	Corrected SS	5498.9136
Coeff Variation	19.7391328	Std Error Mean	3.02735132

Basic Statistical Measures			
Location		Variability	
Mean	76.68400	Std Deviation	15.13676
Median	75.00000	Variance	229.12140
Mode	71.60000	Range	52.30000
		Interquartile Range	15.60000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.33039	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	103.8
99%	103.8
95%	101.0
90%	98.7
75% Q3	84.6
50% Median	75.0
25% Q1	69.0
10%	57.1
5%	53.3
1%	51.5
0% Min	51.5

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Magnesium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
51.5	401	95.0	398
53.3	389	97.9	385
57.1	403	98.7	383
58.3	400	101.0	384
59.2	402	103.8	387

Chassahowitzka River - Fixed Station

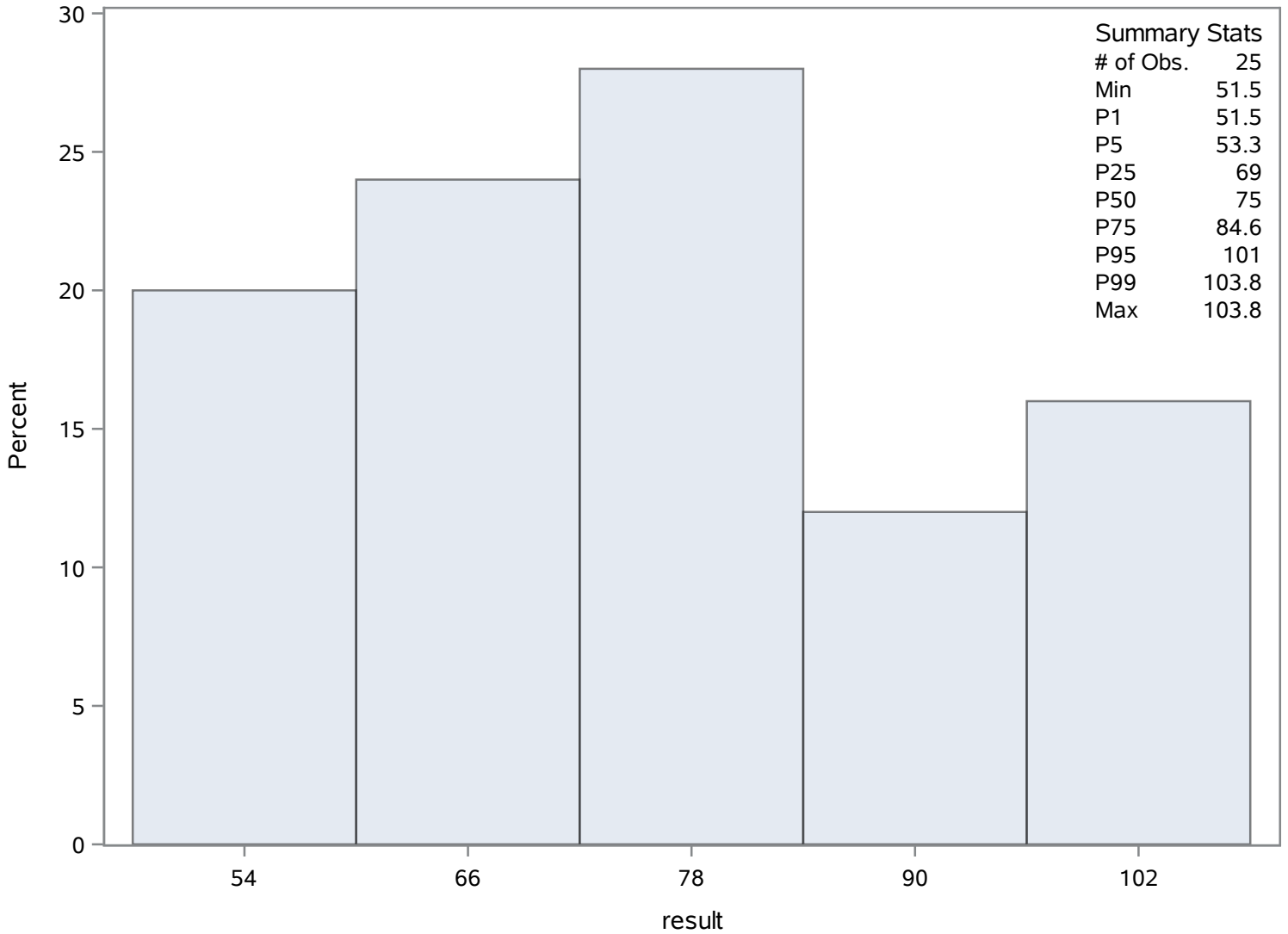
Source: Inactive

Chassahowitzka River AB Gulf

Magnesium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	29	Sum Weights	29
Mean	0.34724138	Sum Observations	10.07
Std Deviation	0.60190707	Variance	0.36229212
Skewness	3.89166277	Kurtosis	16.0343303
Uncorrected SS	13.6409	Corrected SS	10.1441793
Coeff Variation	173.339672	Std Error Mean	0.11177134

Basic Statistical Measures			
Location		Variability	
Mean	0.347241	Std Deviation	0.60191
Median	0.220000	Variance	0.36229
Mode	0.010000	Range	3.05000
		Interquartile Range	0.16000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	3.106712	Pr > t 	0.0043
Sign	M	14.5	Pr >= M 	<.0001
Signed Rank	S	217.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.06
99%	3.06
95%	1.69
90%	0.45
75% Q3	0.28
50% Median	0.22
25% Q1	0.12
10%	0.01
5%	0.01
1%	0.01
0% Min	0.01

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	425	0.33	432
0.01	424	0.41	433
0.01	423	0.45	422
0.01	417	1.69	414
0.01	415	3.06	420

Chassahowitzka River - Fixed Station

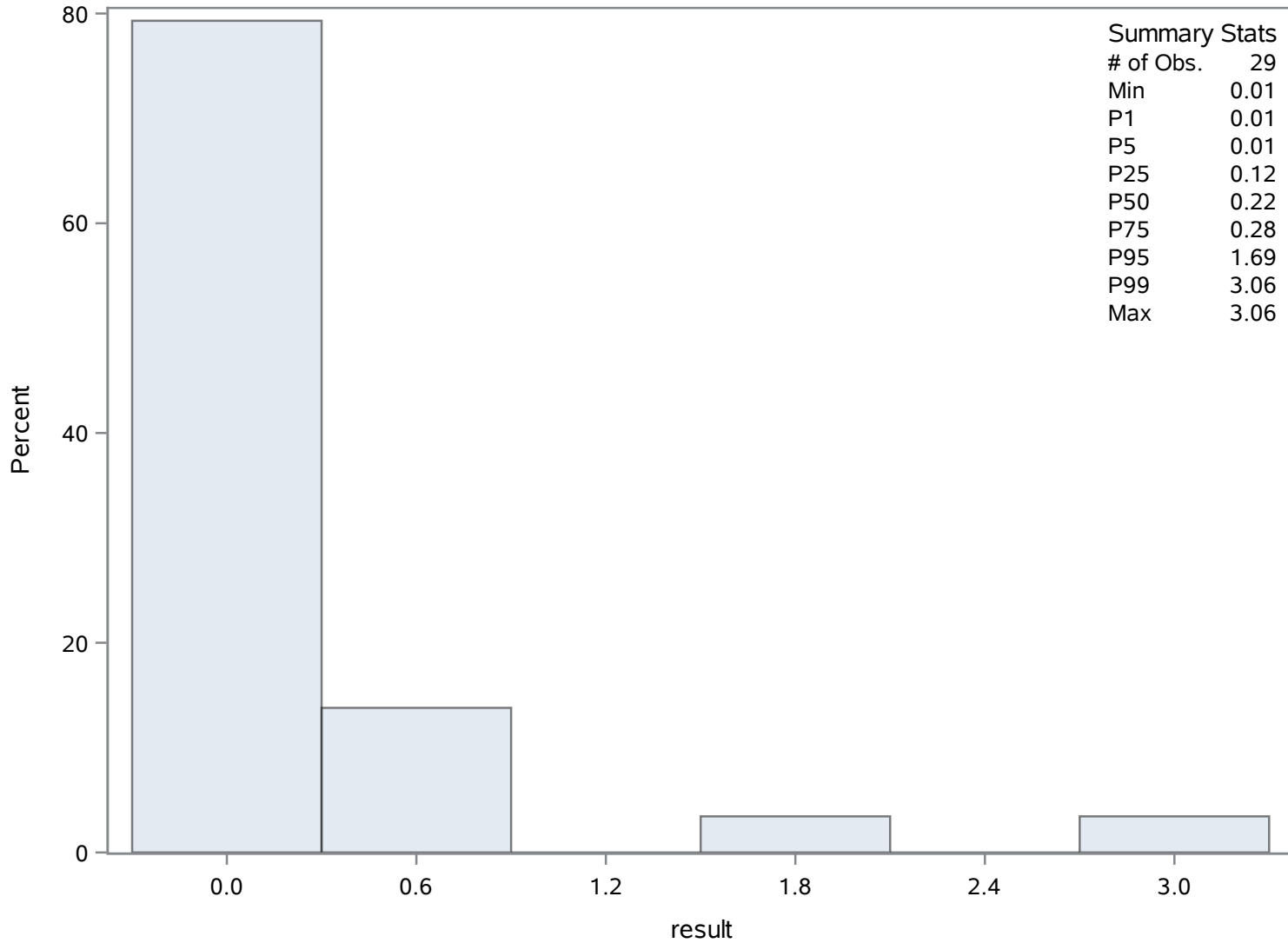
Source: Inactive

Chassahowitzka River AB Gulf

Nitrogen- Total Kjeldahl (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Phaeophytin (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	32	Sum Weights	32
Mean	2.1695	Sum Observations	69.424
Std Deviation	1.71423422	Variance	2.93859897
Skewness	2.14787759	Kurtosis	6.36181502
Uncorrected SS	241.711936	Corrected SS	91.096568
Coeff Variation	79.015175	Std Error Mean	0.30303666

Basic Statistical Measures			
Location		Variability	
Mean	2.169500	Std Deviation	1.71423
Median	1.105000	Variance	2.93860
Mode	1.000000	Range	8.15000
		Interquartile Range	2.14200

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.1592	Pr > t 	<.0001
Sign	M	16	Pr >= M 	<.0001
Signed Rank	S	264	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.870
99%	8.870
95%	4.690
90%	3.970
75% Q3	3.142
50% Median	1.105
25% Q1	1.000
10%	1.000
5%	0.940
1%	0.720
0% Min	0.720

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Phaeophytin (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.72	438	3.67	449
0.94	443	3.97	452
0.99	439	4.28	435
1.00	465	4.69	453
1.00	464	8.87	442

Chassahowitzka River - Fixed Station

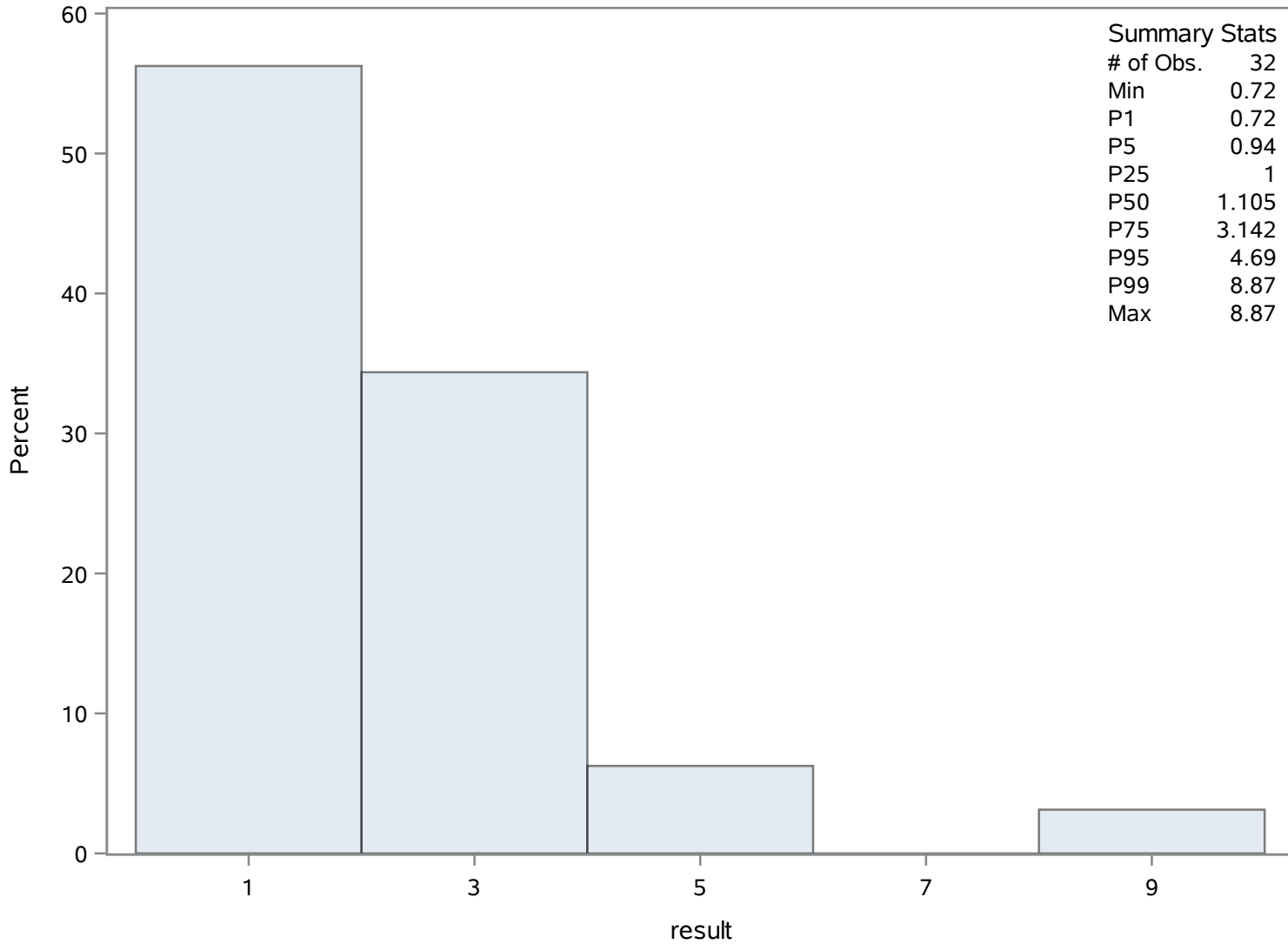
Source: Inactive

Chassahowitzka River AB Gulf

Phaeophytin (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	29	Sum Weights	29
Mean	0.02096552	Sum Observations	0.608
Std Deviation	0.01487443	Variance	0.00022125
Skewness	2.3166337	Kurtosis	8.40024927
Uncorrected SS	0.018942	Corrected SS	0.00619497
Coeff Variation	70.9471329	Std Error Mean	0.00276211

Basic Statistical Measures			
Location		Variability	
Mean	0.020966	Std Deviation	0.01487
Median	0.018000	Variance	0.0002212
Mode	0.025000	Range	0.07900
		Interquartile Range	0.01100

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.590391	Pr > t 	<.0001
Sign	M	14.5	Pr >= M 	<.0001
Signed Rank	S	217.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.080
99%	0.080
95%	0.044
90%	0.039
75% Q3	0.025
50% Median	0.018
25% Q1	0.014
10%	0.004
5%	0.002
1%	0.001
0% Min	0.001

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	475	0.026	493
0.002	481	0.030	466
0.004	484	0.039	471
0.005	480	0.044	474
0.012	485	0.080	490

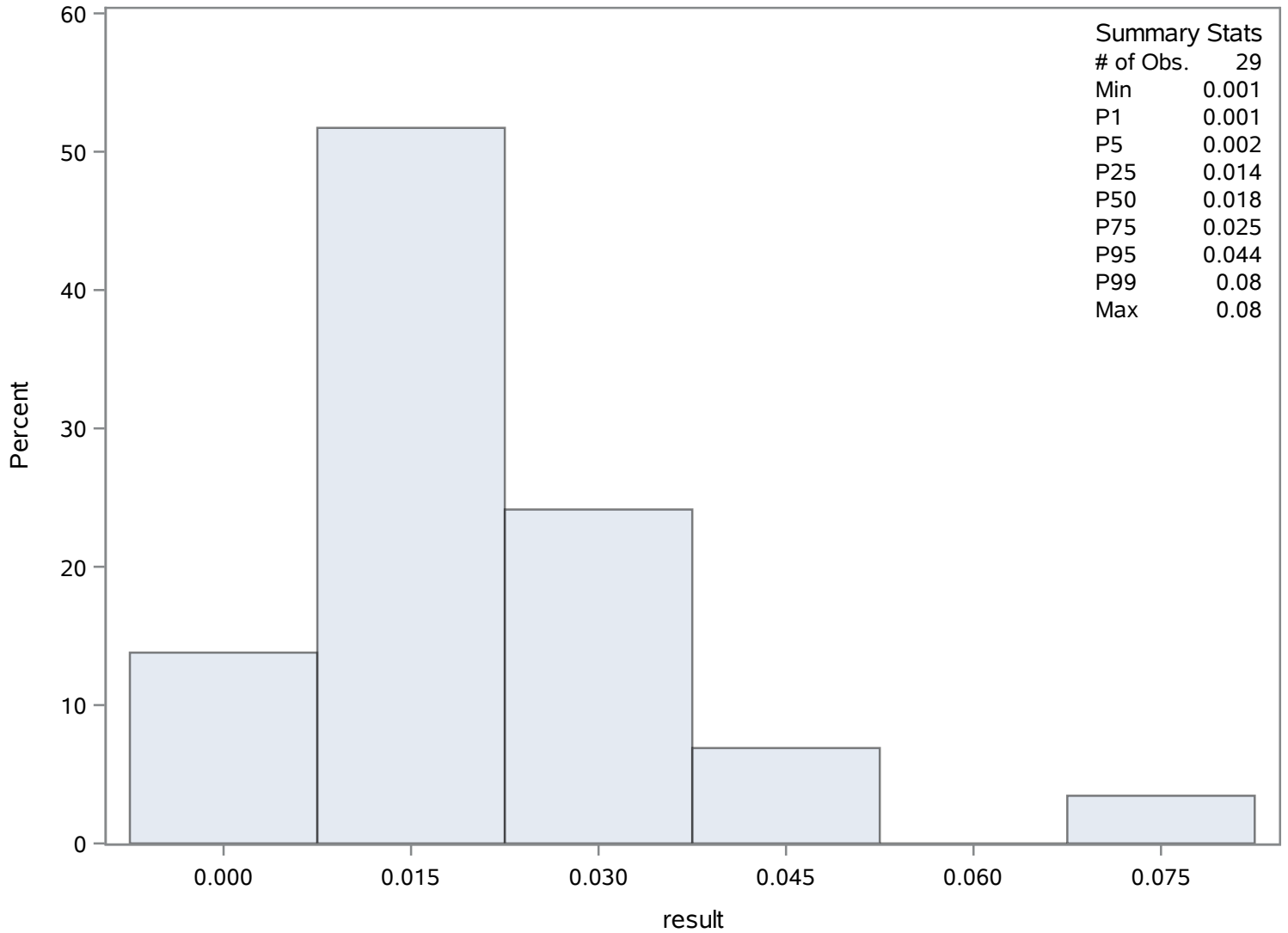
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Phosphorus- Total (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Potassium (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	24	Sum Weights	24
Mean	24.3508333	Sum Observations	584.42
Std Deviation	7.06390698	Variance	49.8987819
Skewness	0.41220637	Kurtosis	-0.4128462
Uncorrected SS	15378.786	Corrected SS	1147.67198
Coeff Variation	29.0088922	Std Error Mean	1.44191398

Basic Statistical Measures			
Location		Variability	
Mean	24.35083	Std Deviation	7.06391
Median	23.65000	Variance	49.89878
Mode	22.00000	Range	25.88000
		Interquartile Range	9.02000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.88785	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	38.68
99%	38.68
95%	38.20
90%	33.70
75% Q3	28.22
50% Median	23.65
25% Q1	19.20
10%	15.40
5%	15.30
1%	12.80
0% Min	12.80

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Potassium (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.8	515	30.00	502
15.3	516	32.80	510
15.4	517	33.70	512
15.8	514	38.20	513
18.0	518	38.68	500

Chassahowitzka River - Fixed Station

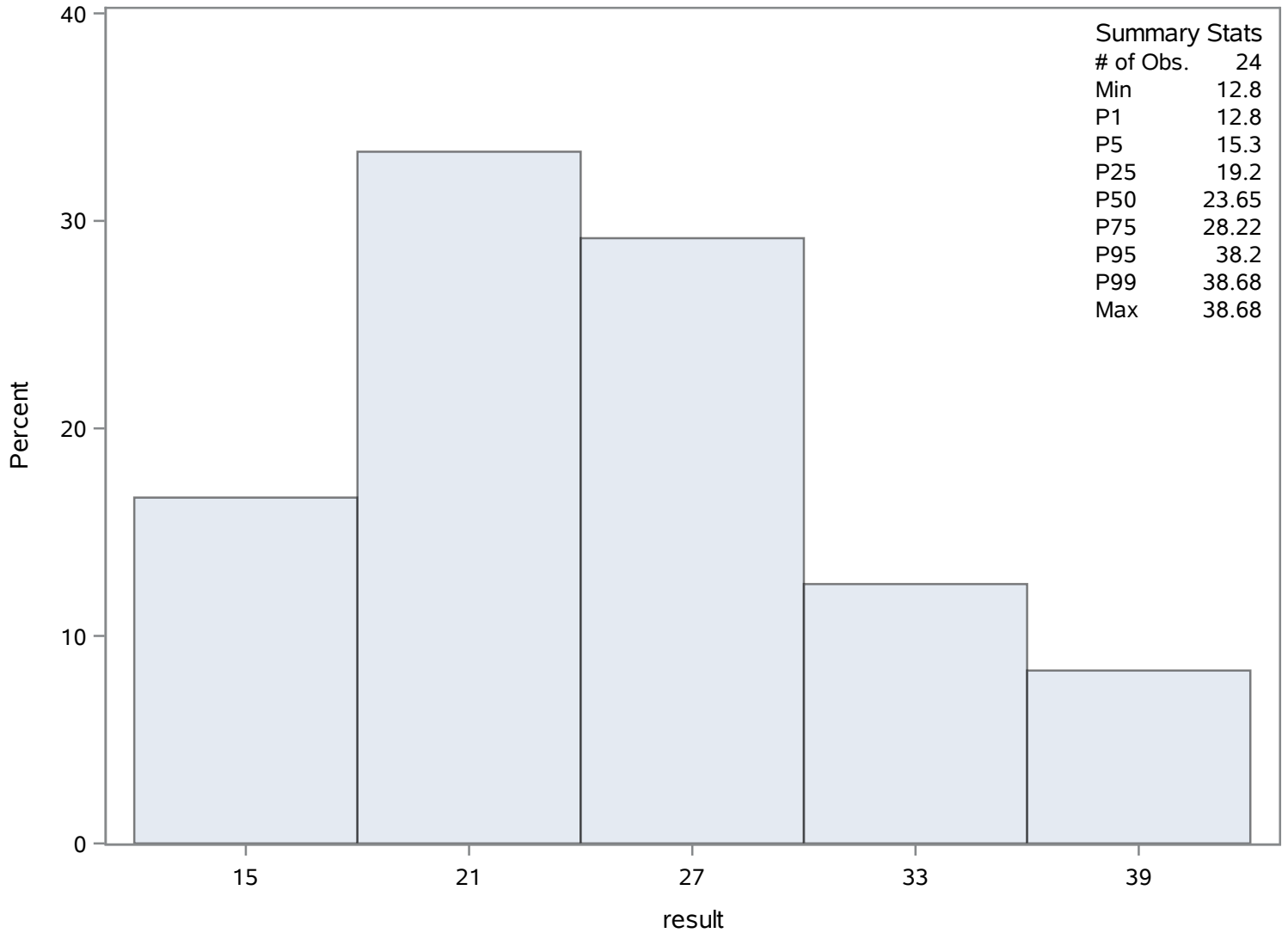
Source: Inactive

Chassahowitzka River AB Gulf

Potassium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	22	Sum Weights	22
Mean	2036.67432	Sum Observations	44806.8351
Std Deviation	666.334376	Variance	444001.5
Skewness	-0.9693621	Kurtosis	3.37035539
Uncorrected SS	100580962	Corrected SS	9324031.51
Coeff Variation	32.7167858	Std Error Mean	142.062966

Basic Statistical Measures			
Location		Variability	
Mean	2036.674	Std Deviation	666.33438
Median	2038.500	Variance	444002
Mode	.	Range	3337
		Interquartile Range	716.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.33642	Pr > t 	<.0001
Sign	M	11	Pr >= M 	<.0001
Signed Rank	S	126.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3340.0000
99%	3340.0000
95%	2827.0000
90%	2756.0000
75% Q3	2436.0000
50% Median	2038.5000
25% Q1	1720.0000
10%	1567.0000
5%	1340.0000
1%	2.8351
0% Min	2.8351

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Filterable (TDS) (Dissolved) mg/L

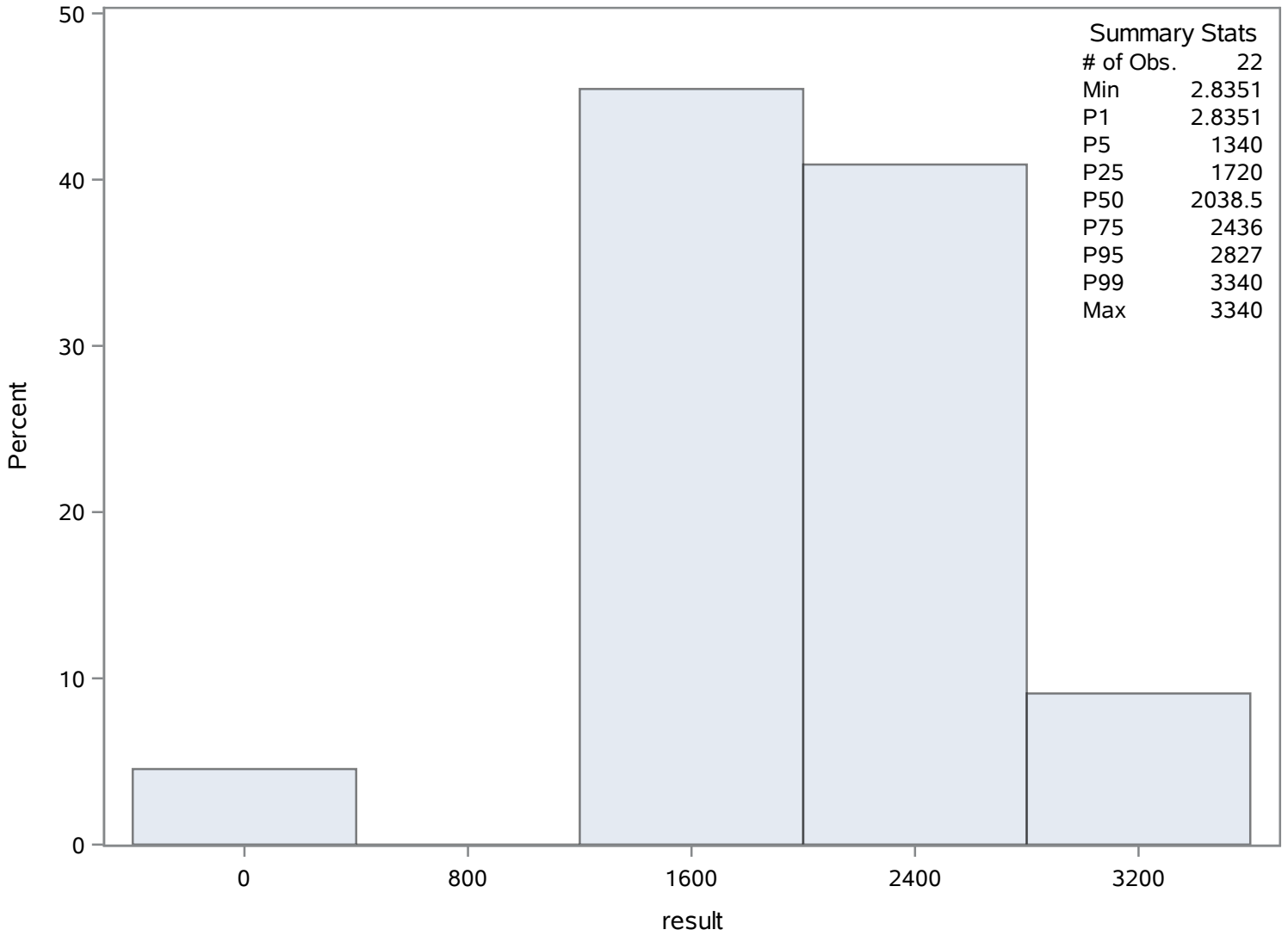
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.8351	535	2547	524
1340.0000	537	2692	533
1567.0000	539	2756	531
1580.0000	538	2827	521
1669.0000	526	3340	534

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	2.48500357	Sum Observations	69.5801
Std Deviation	1.39108278	Variance	1.93511129
Skewness	0.13365513	Kurtosis	-0.8872168
Uncorrected SS	225.154802	Corrected SS	52.2480048
Coeff Variation	55.9791057	Std Error Mean	0.26288993

Basic Statistical Measures			
Location		Variability	
Mean	2.485004	Std Deviation	1.39108
Median	2.282850	Variance	1.93511
Mode	4.000000	Range	4.73960
		Interquartile Range	2.45340

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.452639	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.00000
99%	5.00000
95%	5.00000
90%	4.08420
75% Q3	4.00000
50% Median	2.28285
25% Q1	1.54660
10%	0.41300
5%	0.33000
1%	0.26040
0% Min	0.26040

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Nonfilterable (TSS) (Total) mg/L

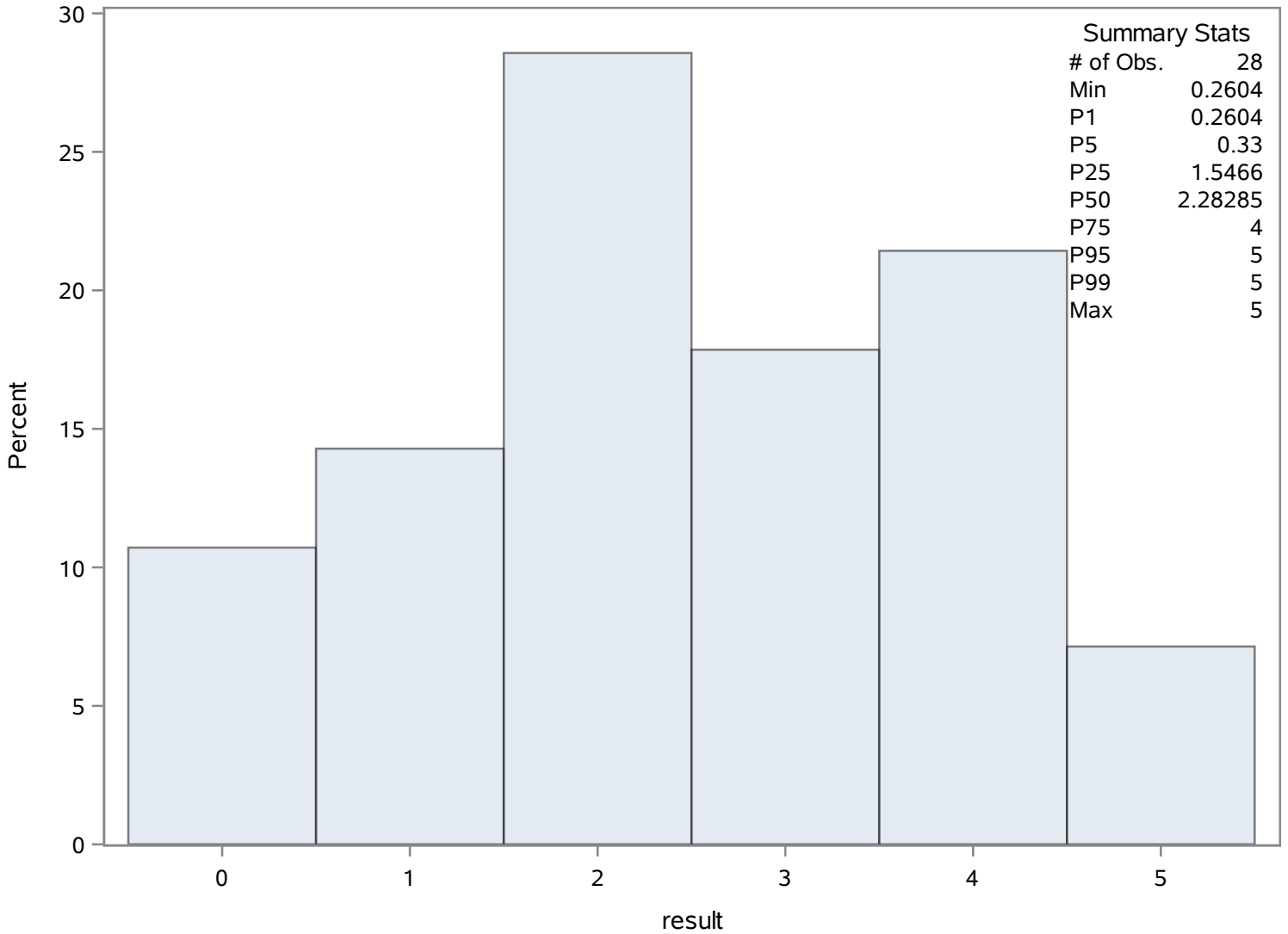
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2604	554	4.0000	566
0.3300	556	4.0000	568
0.4130	550	4.0842	555
0.6263	560	5.0000	564
0.9798	562	5.0000	567

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Nonfilterable (TSS) (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	20	Sum Weights	20
Mean	2.12	Sum Observations	42.4
Std Deviation	0.50010525	Variance	0.25010526
Skewness	0.84471556	Kurtosis	0.69825225
Uncorrected SS	94.64	Corrected SS	4.752
Coeff Variation	23.5898704	Std Error Mean	0.11182693

Basic Statistical Measures			
Location		Variability	
Mean	2.120000	Std Deviation	0.50011
Median	2.050000	Variance	0.25011
Mode	2.200000	Range	2.00000
		Interquartile Range	0.70000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.95787	Pr > t 	<.0001
Sign	M	10	Pr >= M 	<.0001
Signed Rank	S	105	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.40
99%	3.40
95%	3.10
90%	2.75
75% Q3	2.45
50% Median	2.05
25% Q1	1.75
10%	1.55
5%	1.45
1%	1.40
0% Min	1.40

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Salinity (Total) ppt

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.4	586	2.5	582
1.5	588	2.6	581
1.6	577	2.7	571
1.7	587	2.8	583
1.7	576	3.4	584

Chassahowitzka River - Fixed Station

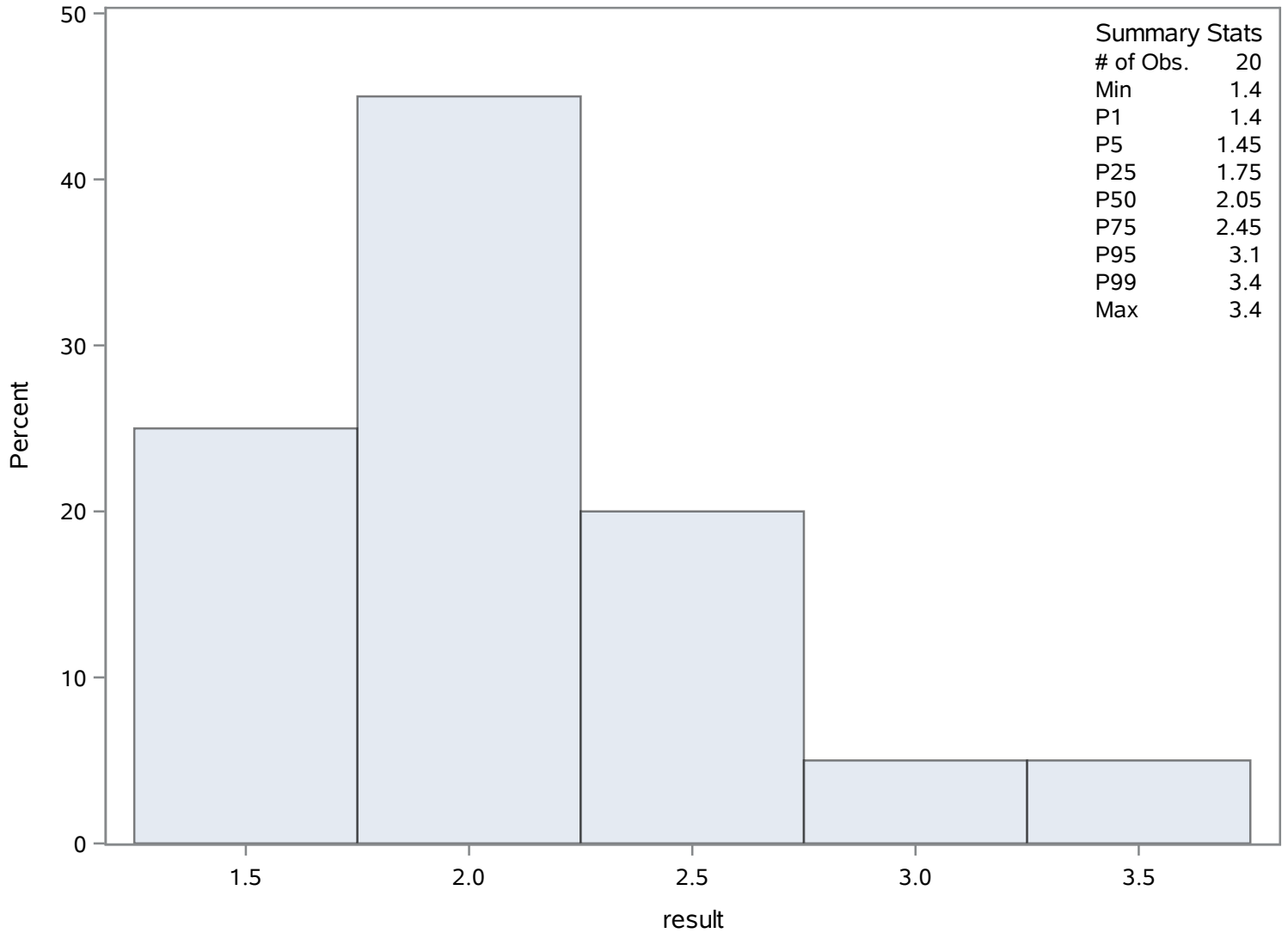
Source: Inactive

Chassahowitzka River AB Gulf

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Sodium (Total) mg/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	23	Sum Weights	23
Mean	624.552174	Sum Observations	14364.7
Std Deviation	233.744507	Variance	54636.4944
Skewness	0.30498471	Kurtosis	1.75739622
Uncorrected SS	10173507.5	Corrected SS	1202002.88
Coeff Variation	37.4259376	Std Error Mean	48.7390989

Basic Statistical Measures			
Location		Variability	
Mean	624.5522	Std Deviation	233.74451
Median	586.0000	Variance	54636
Mode	.	Range	1161
		Interquartile Range	263.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.81419	Pr > t 	<.0001
Sign	M	11.5	Pr >= M 	<.0001
Signed Rank	S	138	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1234
99%	1234
95%	973
90%	838
75% Q3	763
50% Median	586
25% Q1	500
10%	395
5%	367
1%	73
0% Min	73

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Sodium (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
73	594	786	597
367	608	813	592
395	610	838	593
411	609	973	606
460	607	1234	596

Chassahowitzka River - Fixed Station

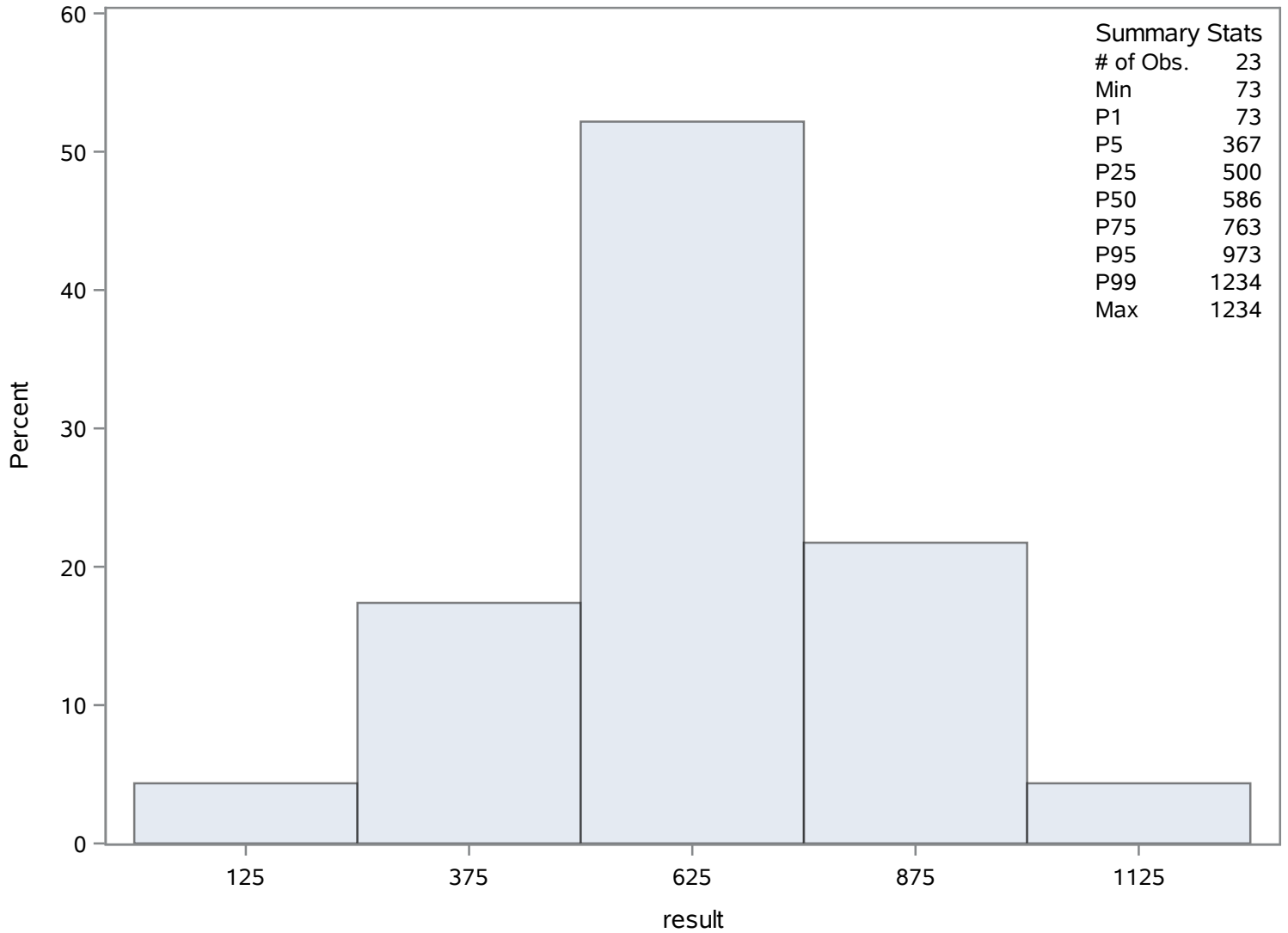
Source: Inactive

Chassahowitzka River AB Gulf

Sodium (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	32	Sum Weights	32
Mean	3742.40625	Sum Observations	119757
Std Deviation	1101.72653	Variance	1213801.35
Skewness	-0.4440517	Kurtosis	1.74222585
Uncorrected SS	485807187	Corrected SS	37627841.7
Coeff Variation	29.4389881	Std Error Mean	194.759575

Basic Statistical Measures			
Location		Variability	
Mean	3742.406	Std Deviation	1102
Median	3742.500	Variance	1213801
Mode	.	Range	5709
		Interquartile Range	1414

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.21552	Pr > t 	<.0001
Sign	M	16	Pr >= M 	<.0001
Signed Rank	S	264	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6087.0
99%	6087.0
95%	5449.0
90%	5039.0
75% Q3	4486.5
50% Median	3742.5
25% Q1	3072.5
10%	2700.0
5%	2400.0
1%	378.0
0% Min	378.0

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
378	612	4981	621
2400	637	5039	633
2595	638	5396	617
2700	641	5449	618
2800	639	6087	634

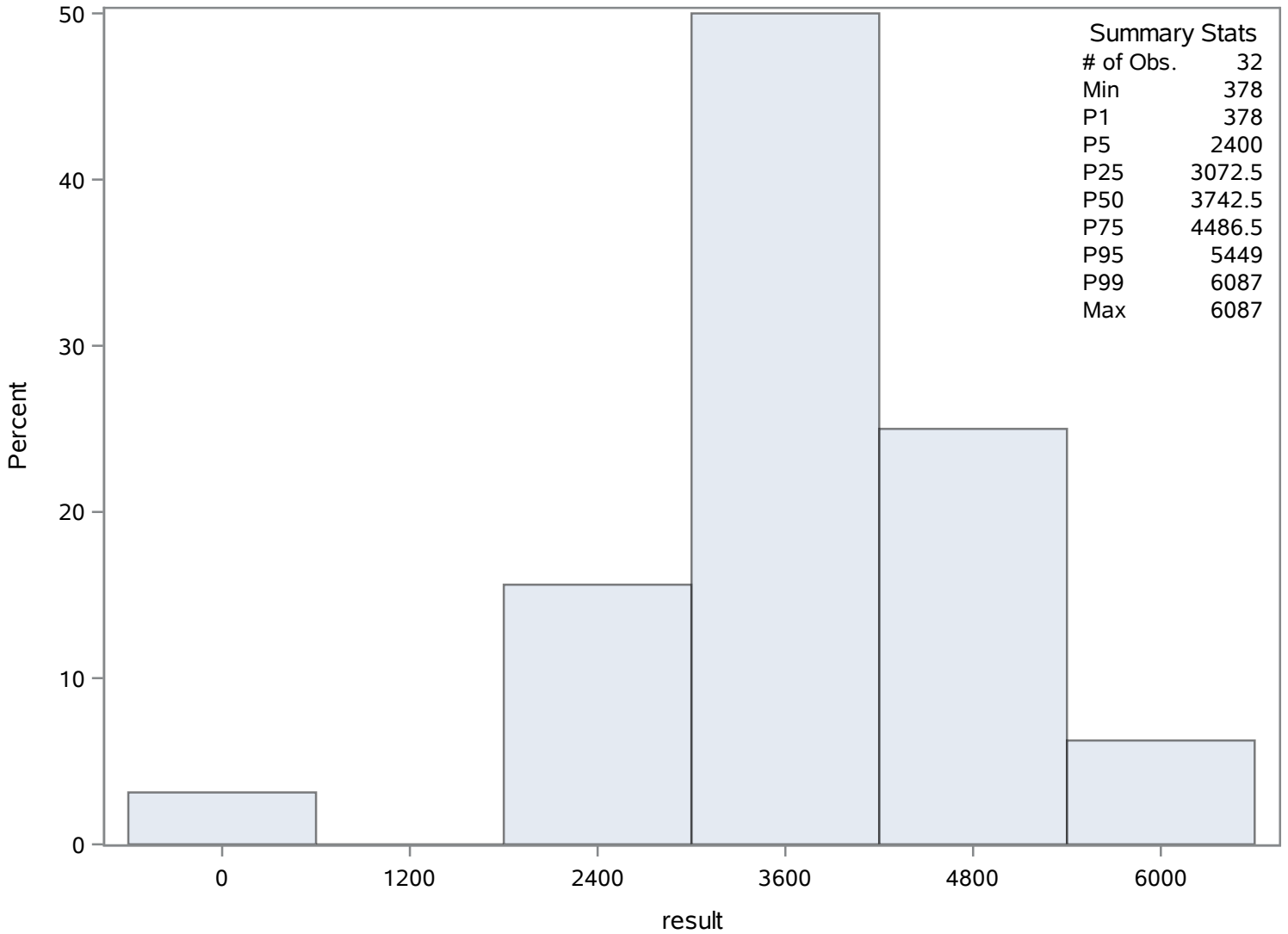
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	21	Sum Weights	21
Mean	168.428571	Sum Observations	3537
Std Deviation	28.4948617	Variance	811.957143
Skewness	-0.1409	Kurtosis	-0.7708099
Uncorrected SS	611971	Corrected SS	16239.1429
Coeff Variation	16.9180689	Std Error Mean	6.2180886

Basic Statistical Measures			
Location		Variability	
Mean	168.4286	Std Deviation	28.49486
Median	163.0000	Variance	811.95714
Mode	160.0000	Range	103.00000
		Interquartile Range	40.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	27.08687	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	217
99%	217
95%	206
90%	205
75% Q3	190
50% Median	163
25% Q1	150
10%	130
5%	127
1%	114
0% Min	114

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
114	658	194	664
127	656	200	648
130	655	205	661
134	657	206	663
150	650	217	651

Chassahowitzka River - Fixed Station

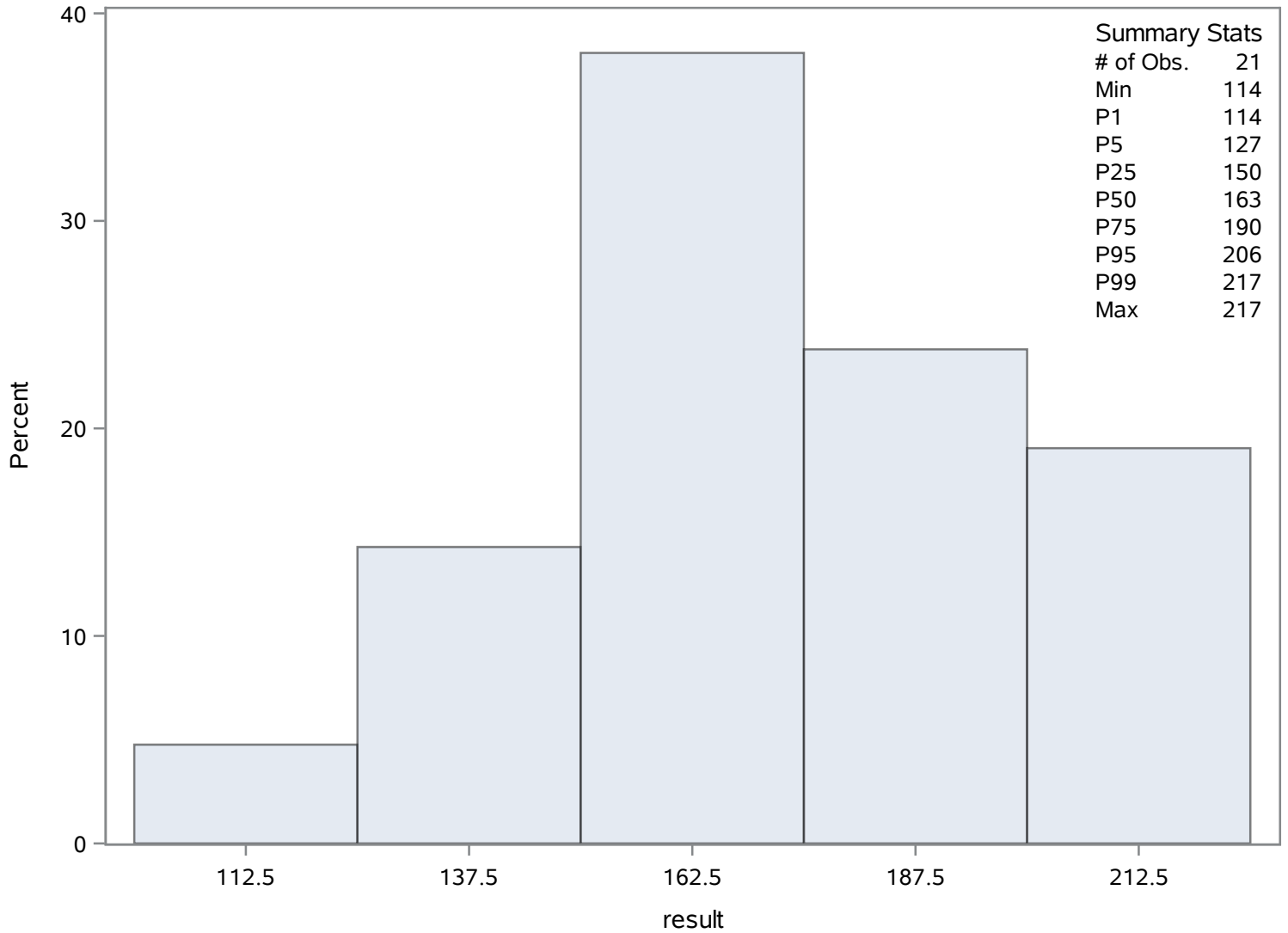
Source: Inactive

Chassahowitzka River AB Gulf

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	23.5618519	Sum Observations	636.17
Std Deviation	1.26834549	Variance	1.60870028
Skewness	0.19858486	Kurtosis	0.03109699
Uncorrected SS	15031.1695	Corrected SS	41.8262074
Coeff Variation	5.38304671	Std Error Mean	0.2440932

Basic Statistical Measures			
Location		Variability	
Mean	23.56185	Std Deviation	1.26835
Median	23.57000	Variance	1.60870
Mode	22.70000	Range	5.16000
		Interquartile Range	1.59000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	96.52809	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.42
99%	26.42
95%	25.96
90%	25.26
75% Q3	24.29
50% Median	23.57
25% Q1	22.70
10%	21.70
5%	21.45

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	21.26
0% Min	21.26

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21.26	678	24.56	686
21.45	682	24.66	675
21.70	683	25.26	666
21.96	688	25.96	673
22.46	668	26.42	674

Chassahowitzka River - Fixed Station

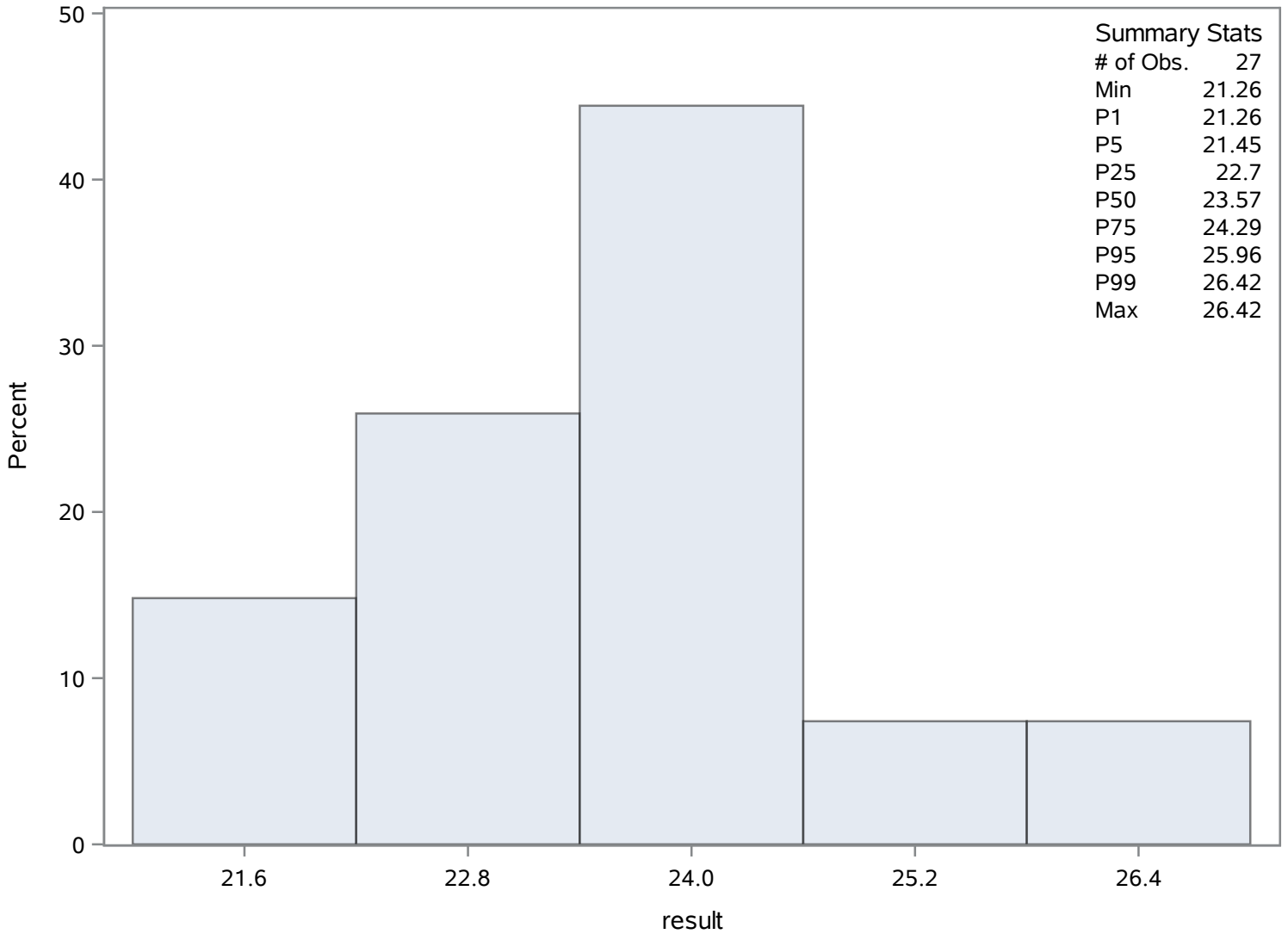
Source: Inactive

Chassahowitzka River AB Gulf

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Total depth at monitored location Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	1.08148148	Sum Observations	29.2
Std Deviation	0.36693852	Variance	0.13464387
Skewness	1.03720585	Kurtosis	1.16028717
Uncorrected SS	35.08	Corrected SS	3.50074074
Coeff Variation	33.9292464	Std Error Mean	0.07061735

Basic Statistical Measures			
Location		Variability	
Mean	1.081481	Std Deviation	0.36694
Median	1.000000	Variance	0.13464
Mode	1.000000	Range	1.40000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.31467	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.0
99%	2.0
95%	2.0
90%	1.5
75% Q3	1.3
50% Median	1.0
25% Q1	0.8
10%	0.7
5%	0.6
1%	0.6
0% Min	0.6

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Total depth at monitored location Meters

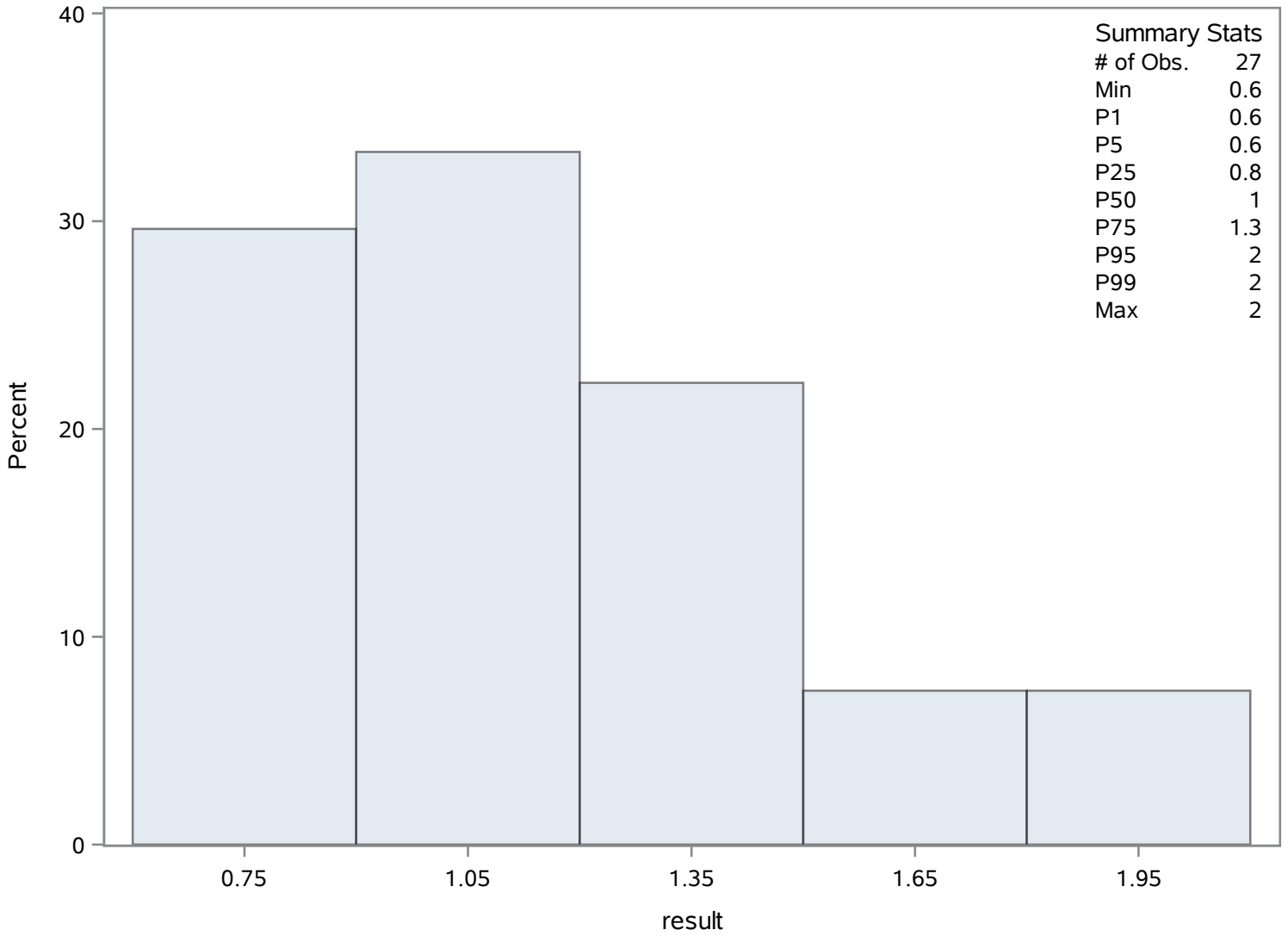
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	715	1.3	702
0.6	712	1.5	701
0.7	716	1.5	704
0.7	713	2.0	697
0.7	710	2.0	698

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Total depth at monitored location Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Transparency (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	22	Sum Weights	22
Mean	1.03181818	Sum Observations	22.7
Std Deviation	0.30454707	Variance	0.09274892
Skewness	0.00068966	Kurtosis	-1.1066318
Uncorrected SS	25.37	Corrected SS	1.94772727
Coeff Variation	29.5155751	Std Error Mean	0.06492965

Basic Statistical Measures			
Location		Variability	
Mean	1.031818	Std Deviation	0.30455
Median	1.050000	Variance	0.09275
Mode	0.700000	Range	1.00000
		Interquartile Range	0.50000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.89132	Pr > t 	<.0001
Sign	M	11	Pr >= M 	<.0001
Signed Rank	S	126.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.50
99%	1.50
95%	1.50
90%	1.50
75% Q3	1.30
50% Median	1.05
25% Q1	0.80
10%	0.70
5%	0.60

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Transparency (Total) Meters

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.50
0% Min	0.50

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	719	1.3	721
0.6	739	1.3	728
0.7	740	1.5	724
0.7	737	1.5	727
0.7	736	1.5	730

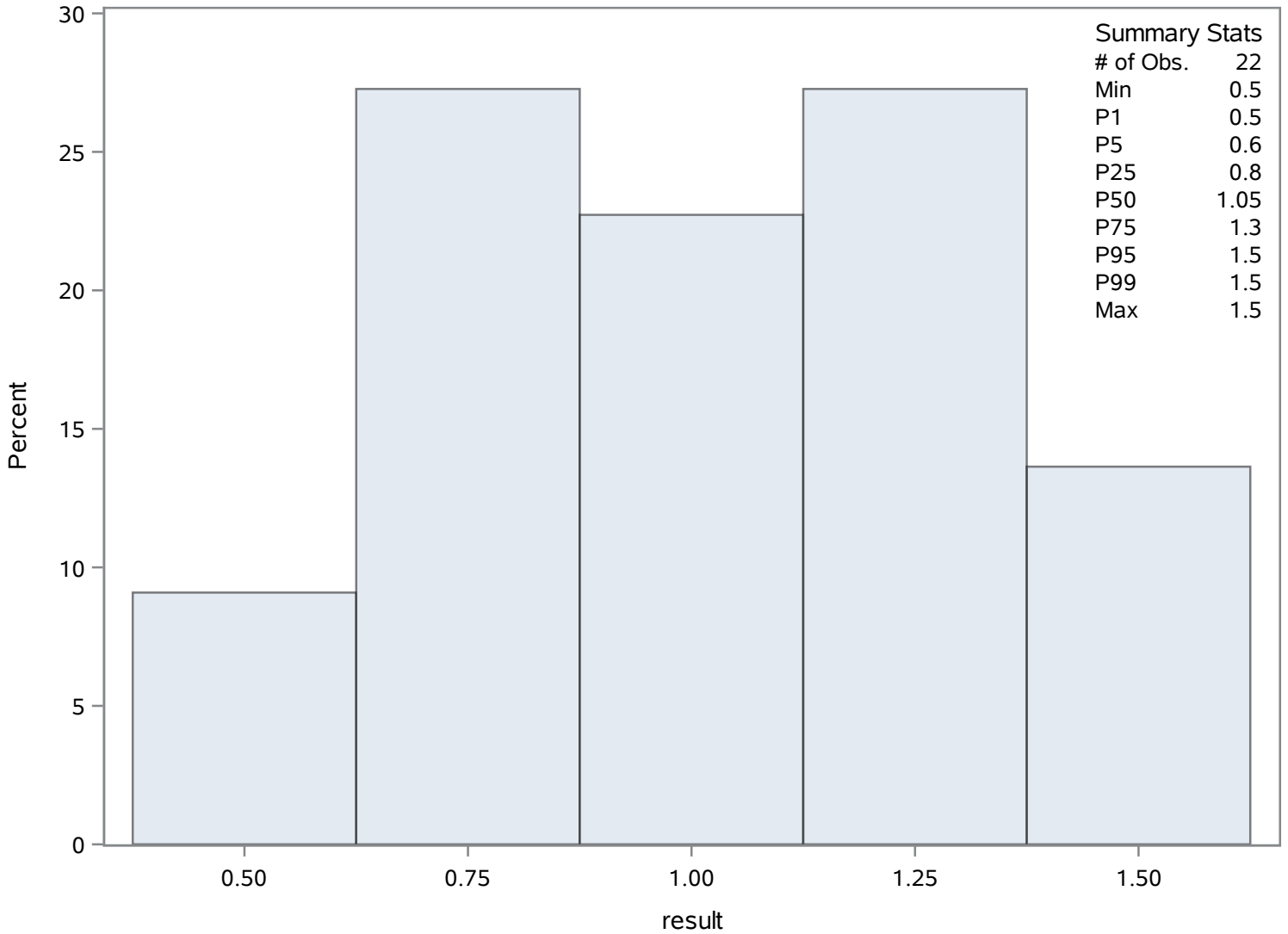
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka River AB Gulf Transparency (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Turbidity (Total) FTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	1.10607143	Sum Observations	30.97
Std Deviation	0.59481923	Variance	0.35380992
Skewness	0.4310566	Kurtosis	0.28541261
Uncorrected SS	43.8079	Corrected SS	9.55286786
Coeff Variation	53.7776511	Std Error Mean	0.11241027

Basic Statistical Measures			
Location		Variability	
Mean	1.106071	Std Deviation	0.59482
Median	1.100000	Variance	0.35381
Mode	1.400000	Range	2.38000
		Interquartile Range	0.70000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.839594	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.40
99%	2.40
95%	2.40
90%	2.00
75% Q3	1.40
50% Median	1.10
25% Q1	0.70
10%	0.45
5%	0.05
1%	0.02
0% Min	0.02

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Turbidity (Total) FTU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.02	750	1.5	767
0.05	756	1.9	743
0.45	766	2.0	768
0.50	759	2.4	748
0.60	761	2.4	764

Chassahowitzka River - Fixed Station

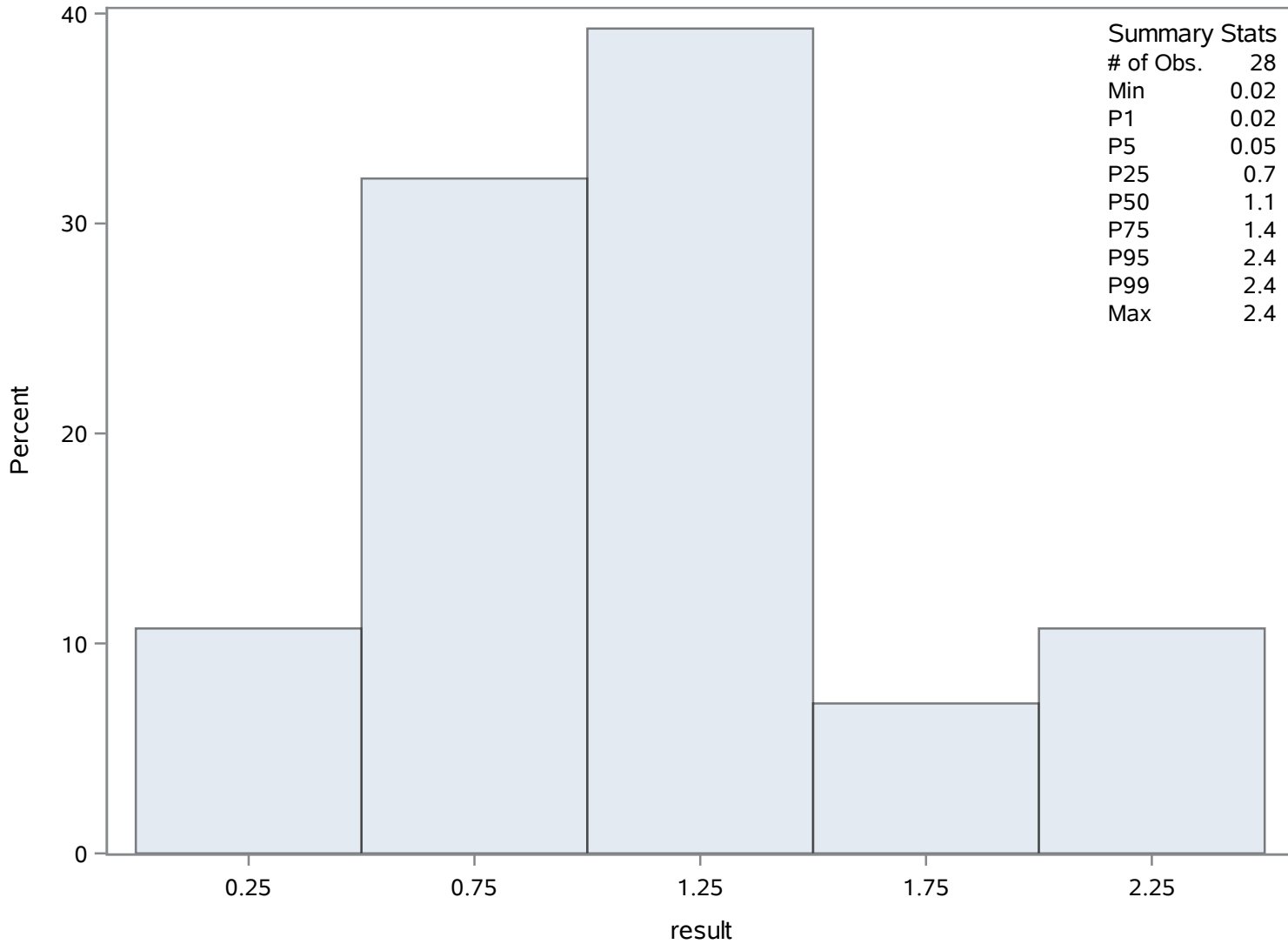
Source: Inactive

Chassahowitzka River AB Gulf

Turbidity (Total) FTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	27	Sum Weights	27
Mean	7.49037037	Sum Observations	202.24
Std Deviation	0.41818731	Variance	0.17488063
Skewness	-0.9141087	Kurtosis	2.00318184
Uncorrected SS	1519.3994	Corrected SS	4.5468963
Coeff Variation	5.5829991	Std Error Mean	0.08048019

Basic Statistical Measures			
Location		Variability	
Mean	7.490370	Std Deviation	0.41819
Median	7.520000	Variance	0.17488
Mode	7.850000	Range	2.02000
		Interquartile Range	0.53000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	93.07099	Pr > t 	<.0001
Sign	M	13.5	Pr >= M 	<.0001
Signed Rank	S	189	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.31
99%	8.31
95%	7.98
90%	7.96
75% Q3	7.81
50% Median	7.52
25% Q1	7.28
10%	7.02
5%	6.60
1%	6.29
0% Min	6.29

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.29	773	7.85	792
6.60	772	7.86	783
7.02	790	7.96	769
7.24	779	7.98	793
7.26	781	8.31	777

Chassahowitzka River - Fixed Station

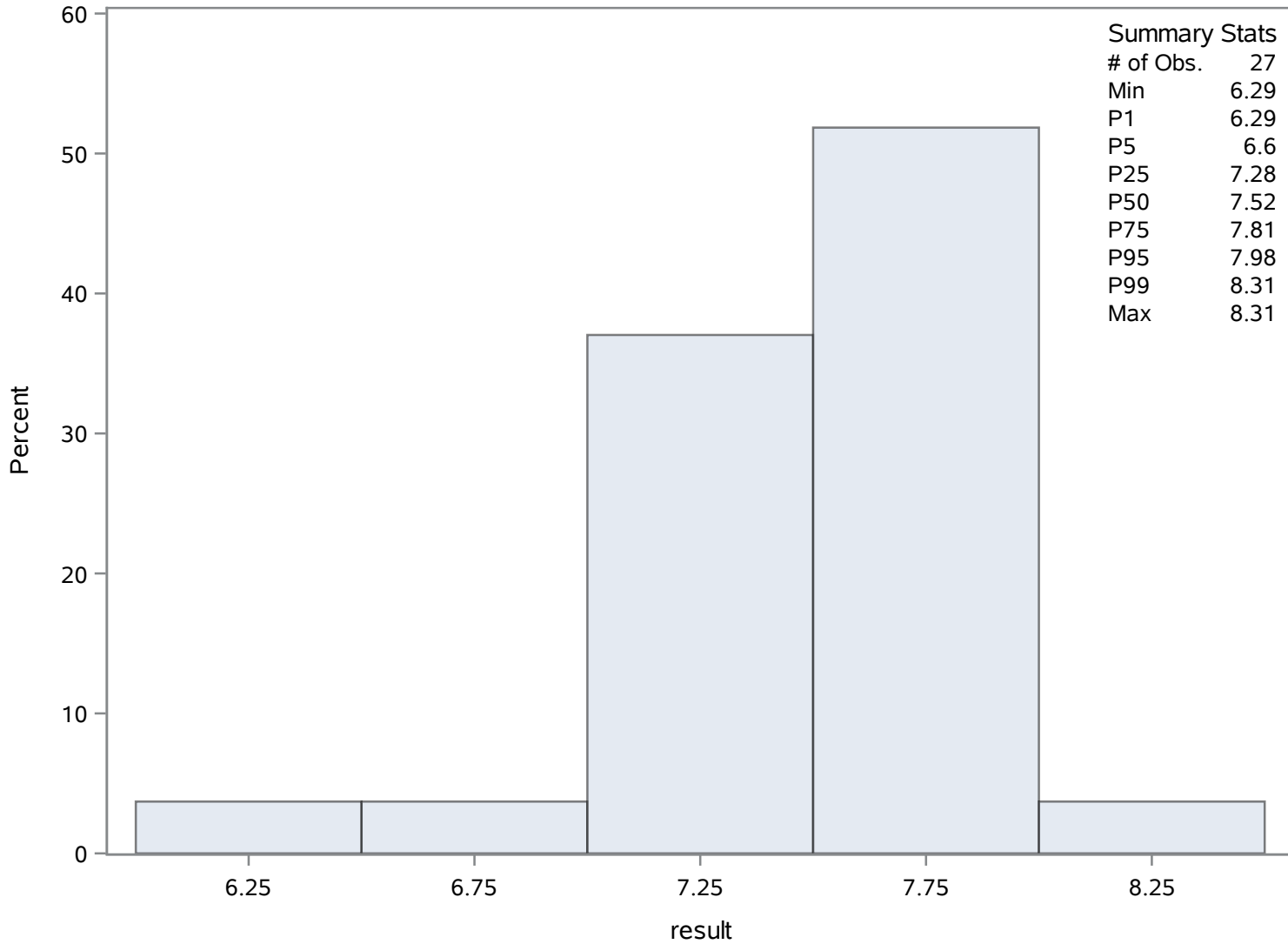
Source: Inactive

Chassahowitzka River AB Gulf

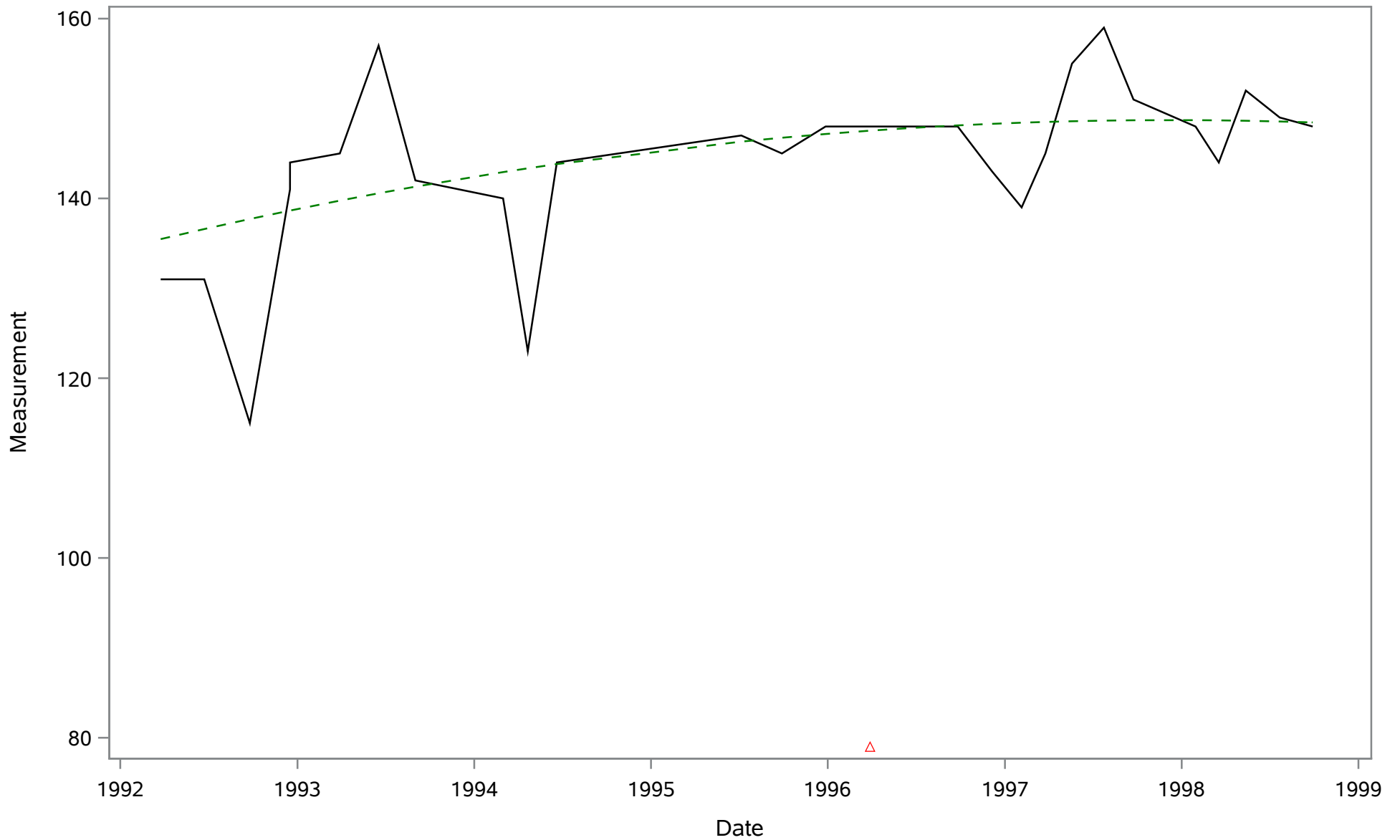
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result

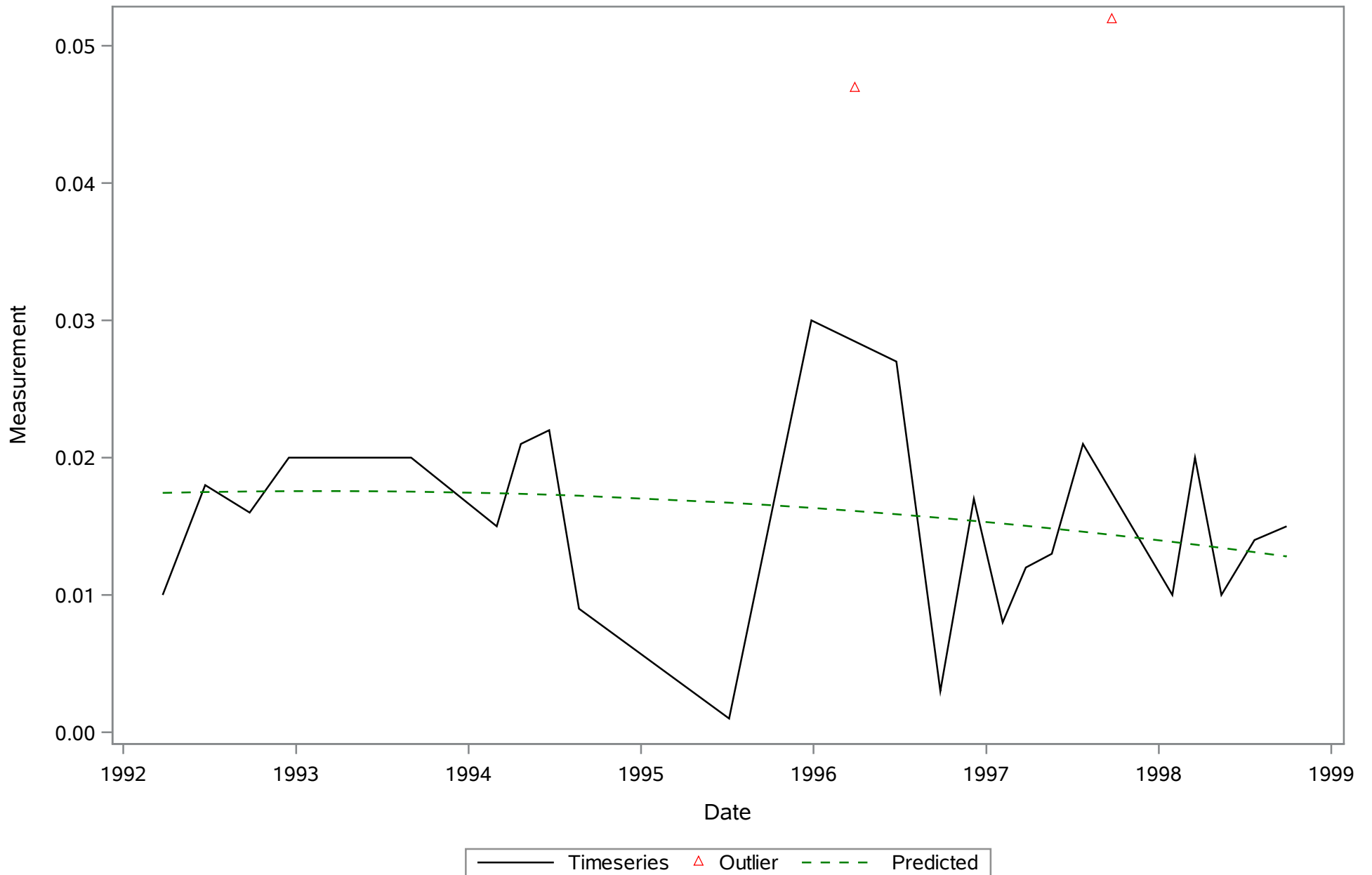


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Alkalinity (Total) mg/L

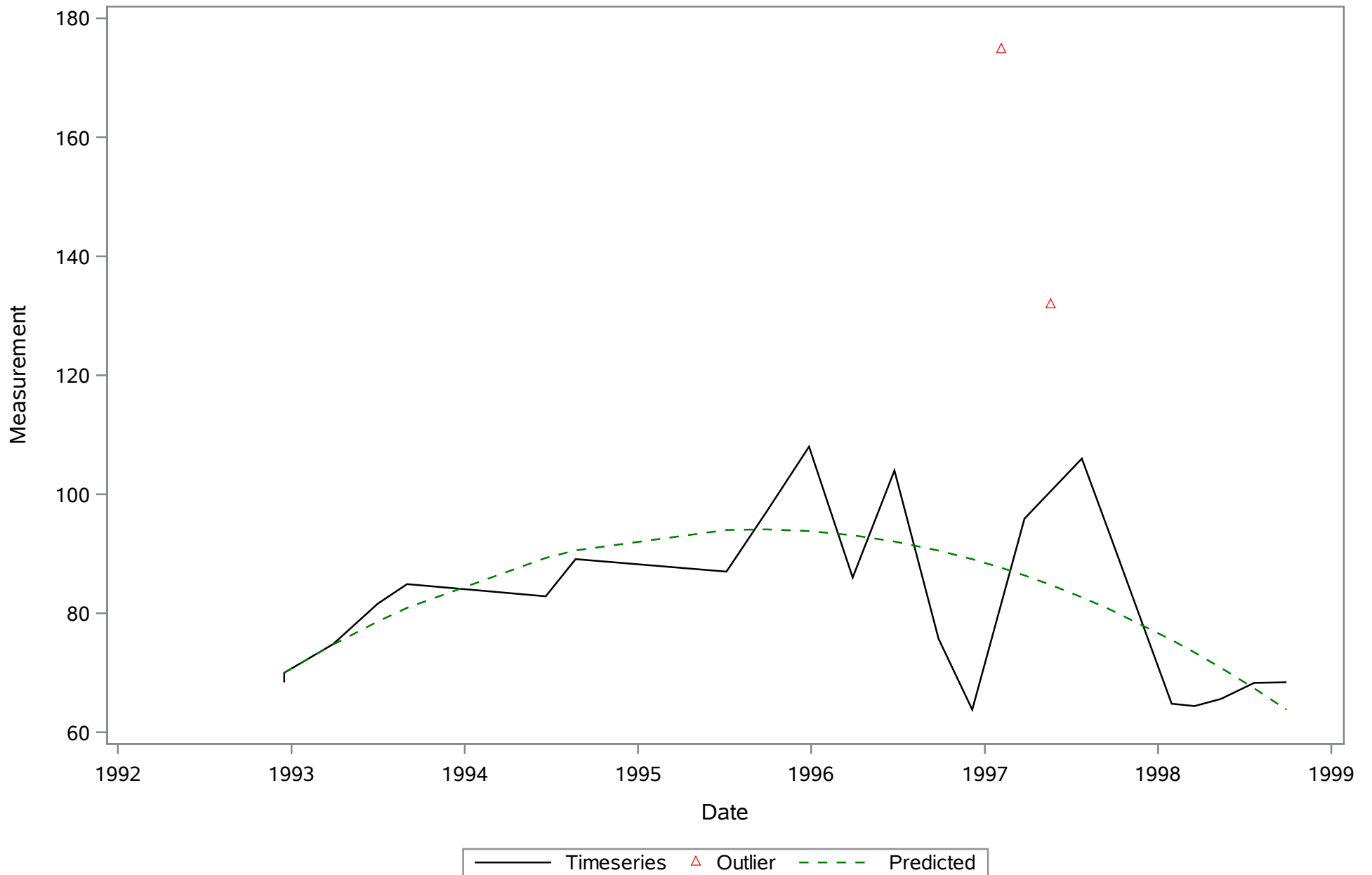


— Timeseries ▲ Outlier - - - Predicted

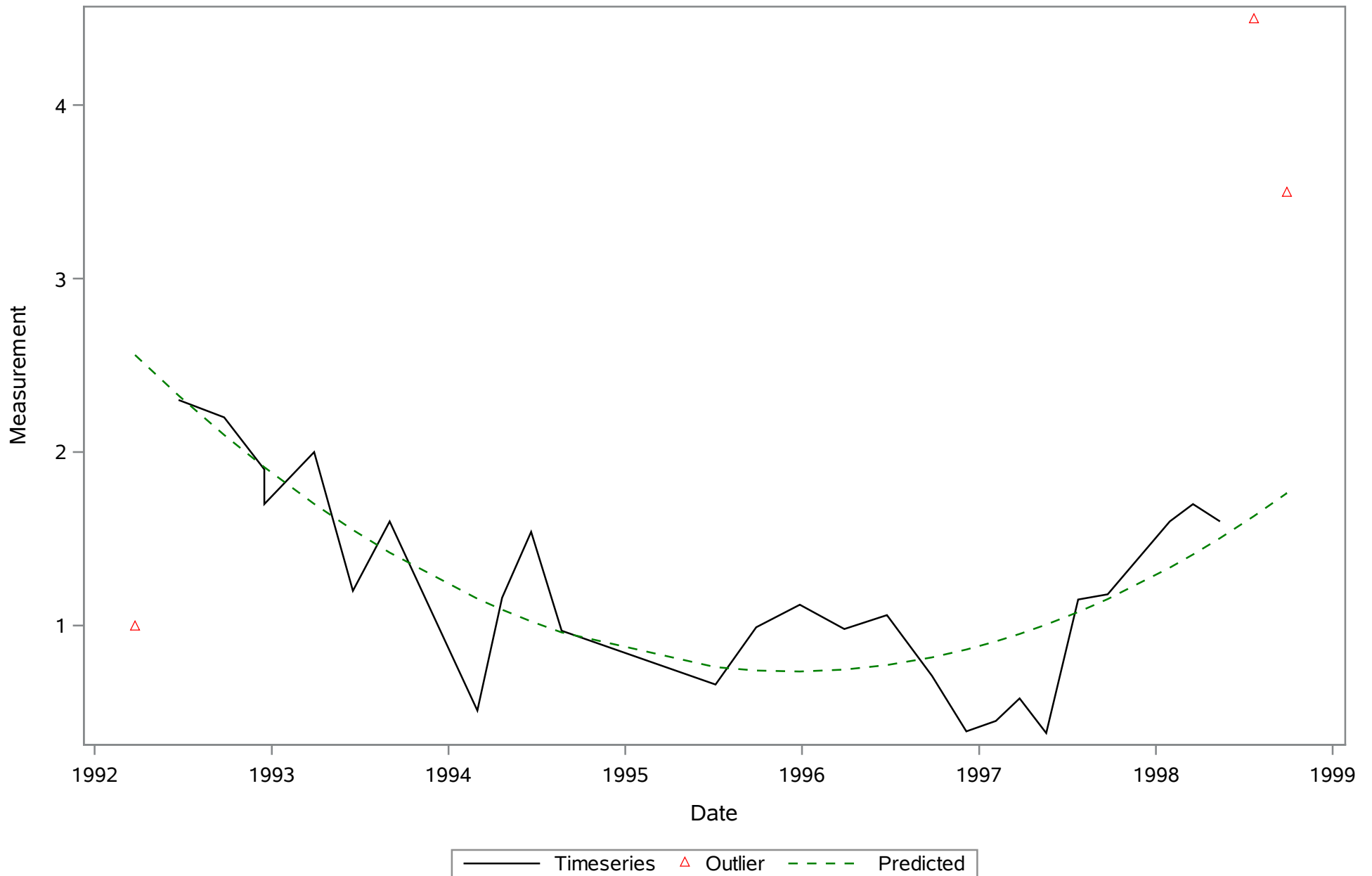
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Ammonia (N) (Total) mg/L



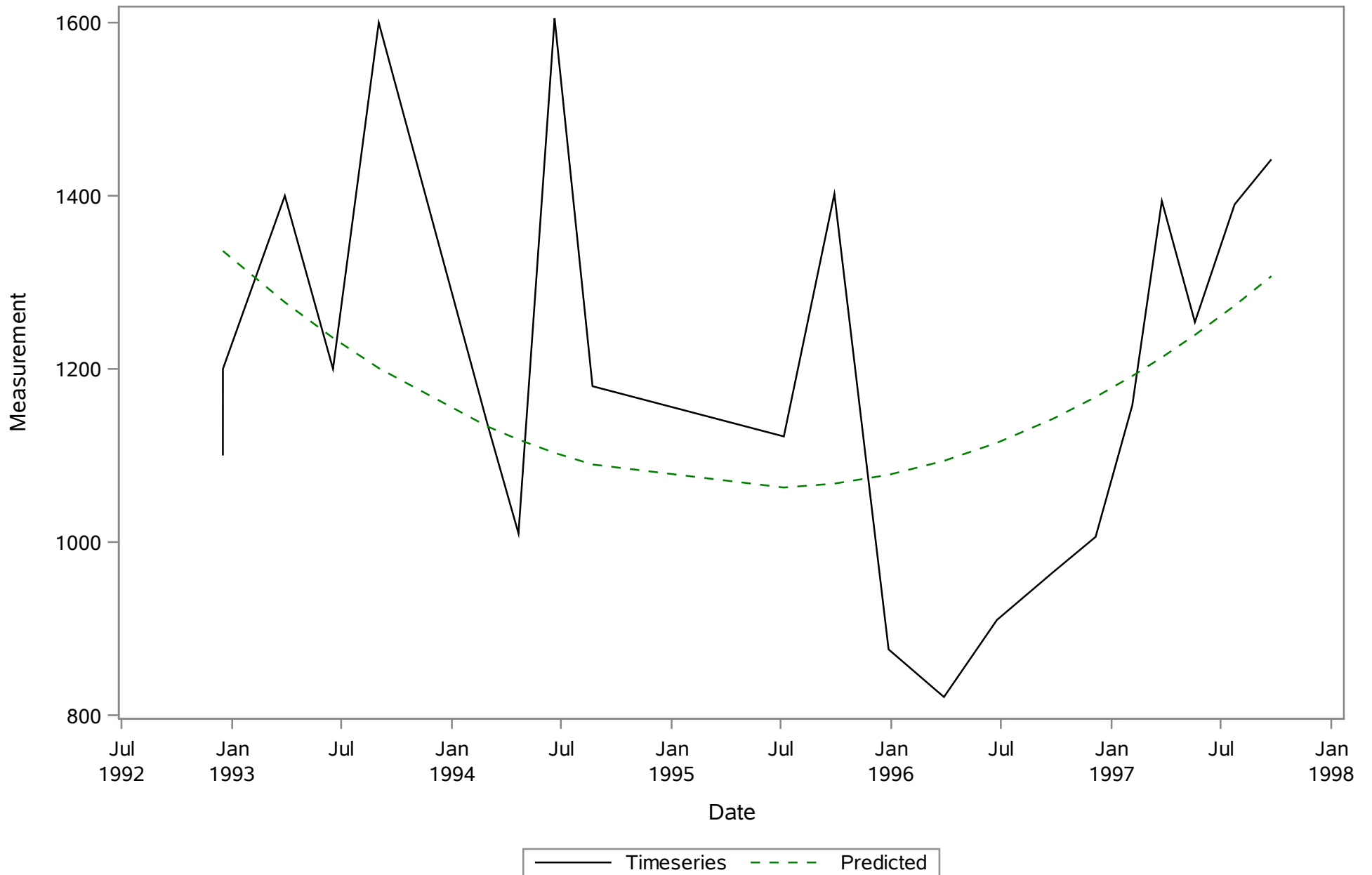
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Calcium (Total) mg/L



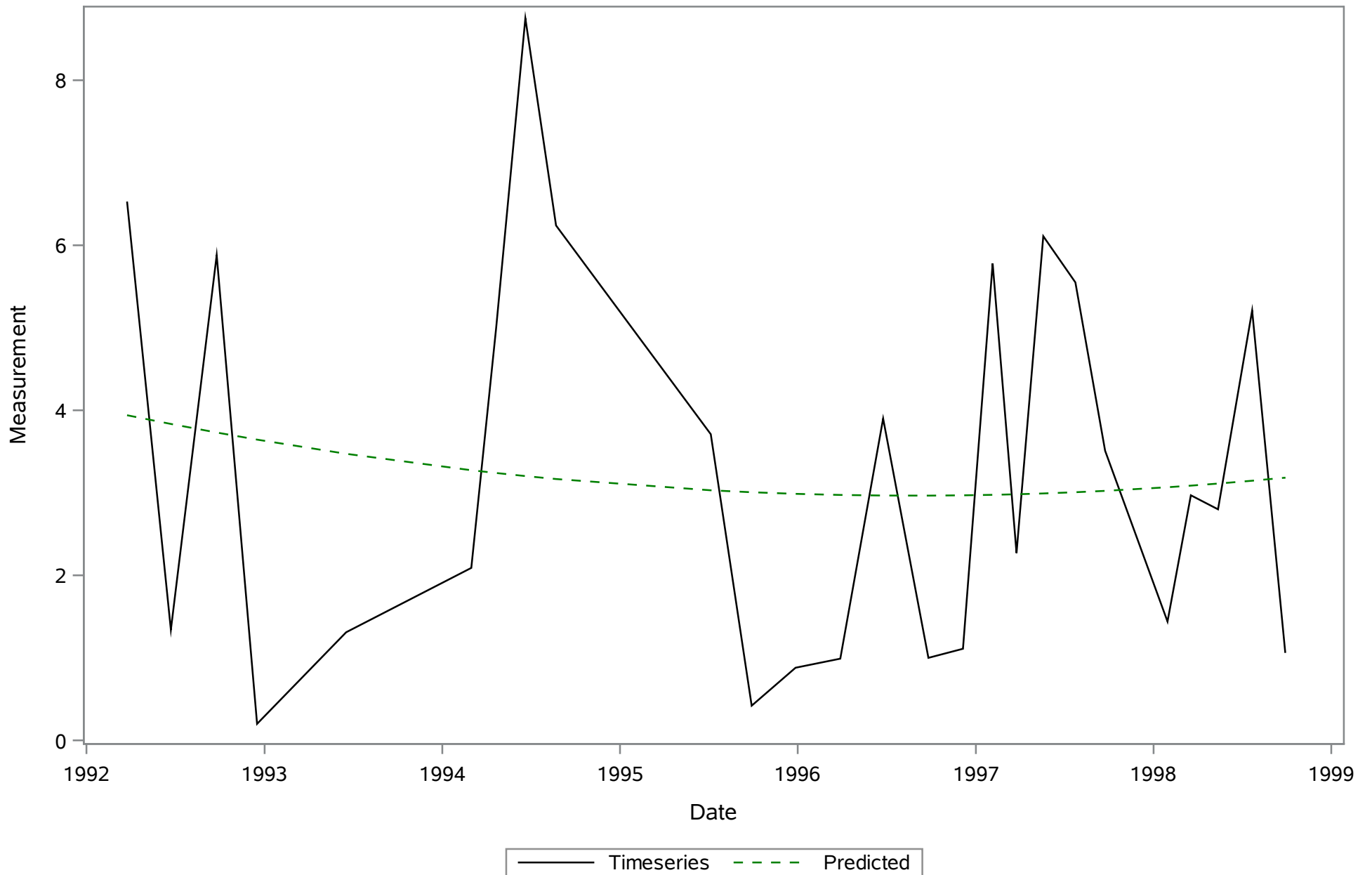
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Carbon- Total Organic (Total) mg/L



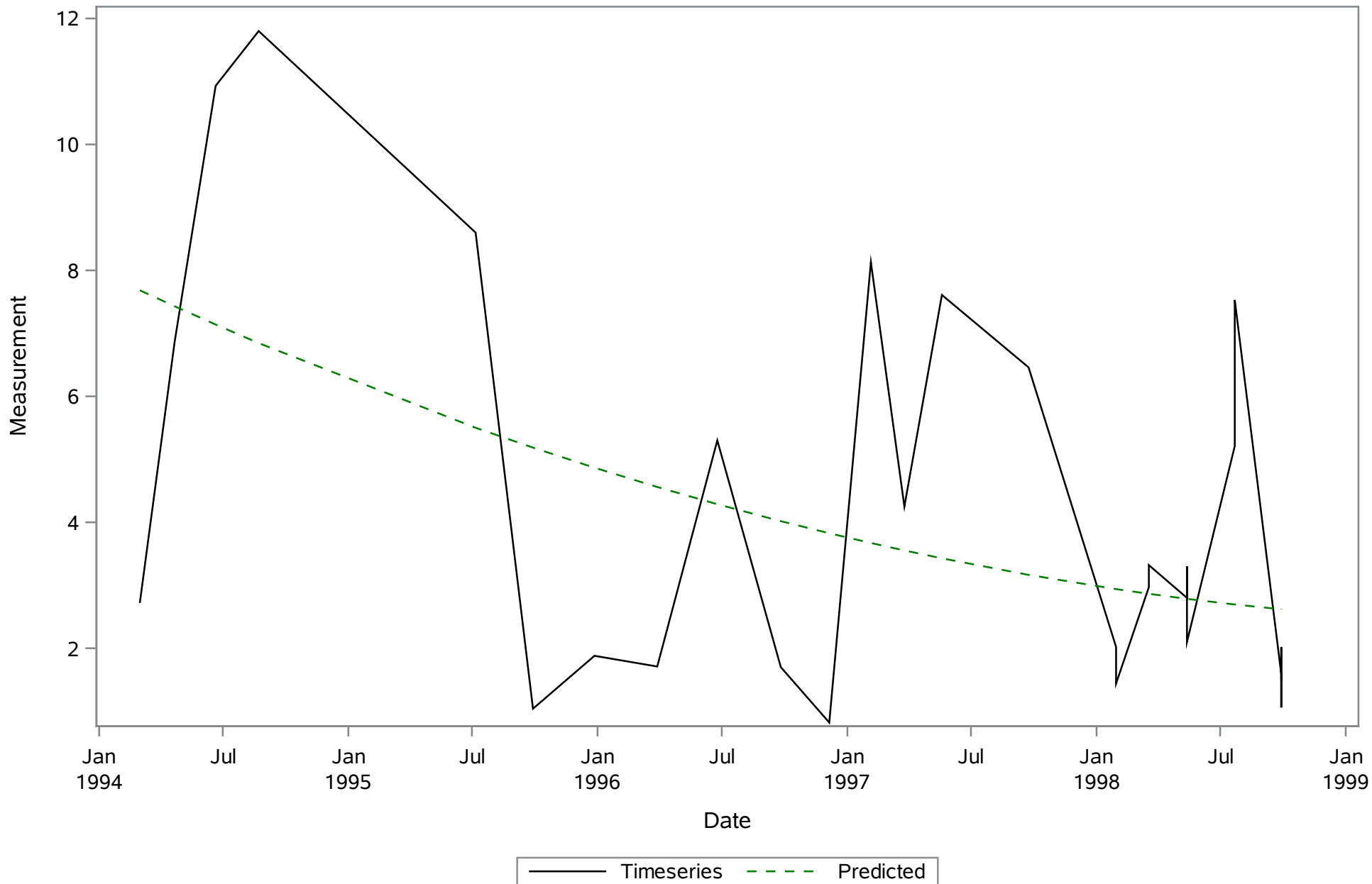
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chloride (Dissolved) mg/L



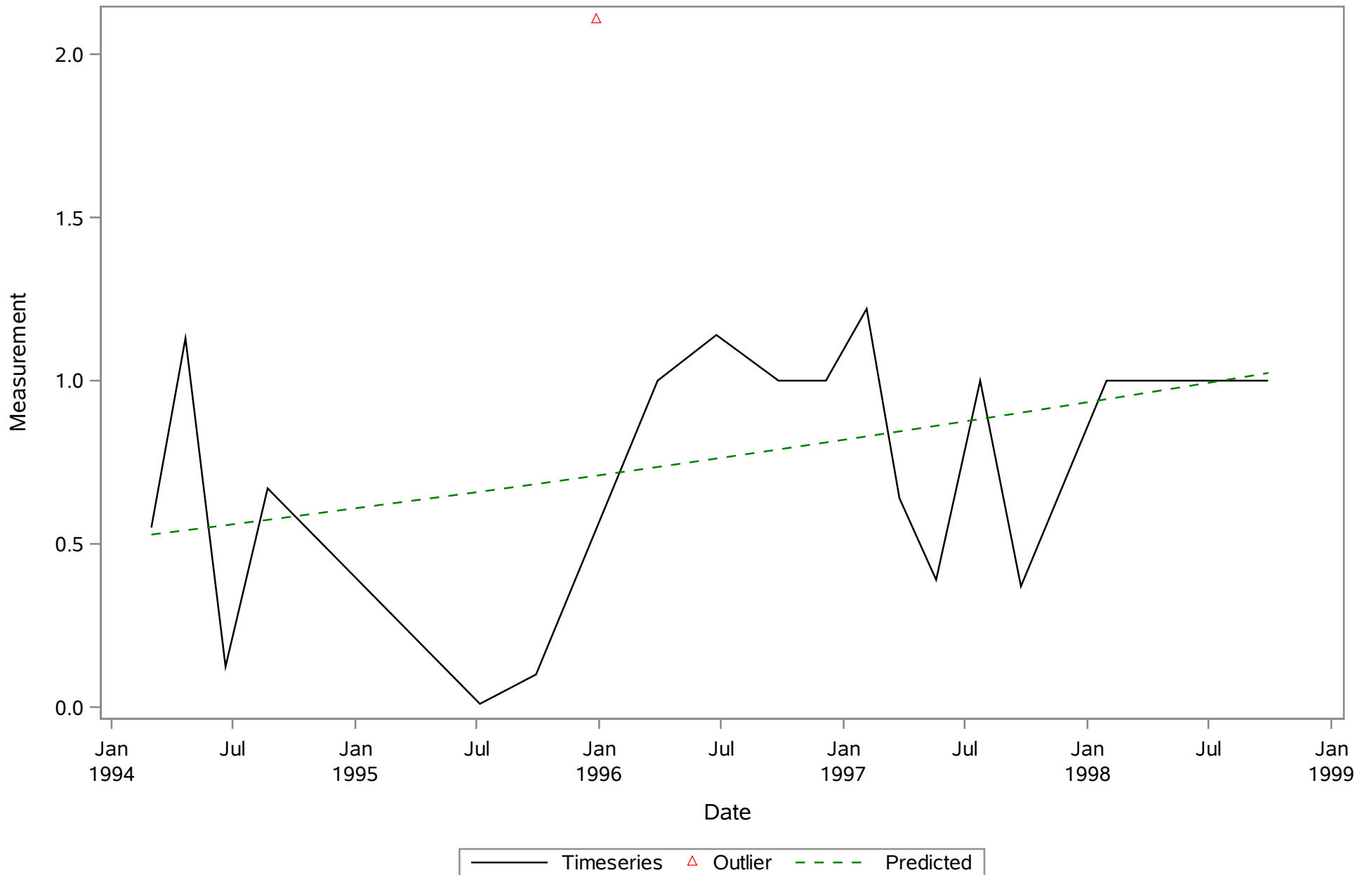
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll (Total) ug/L



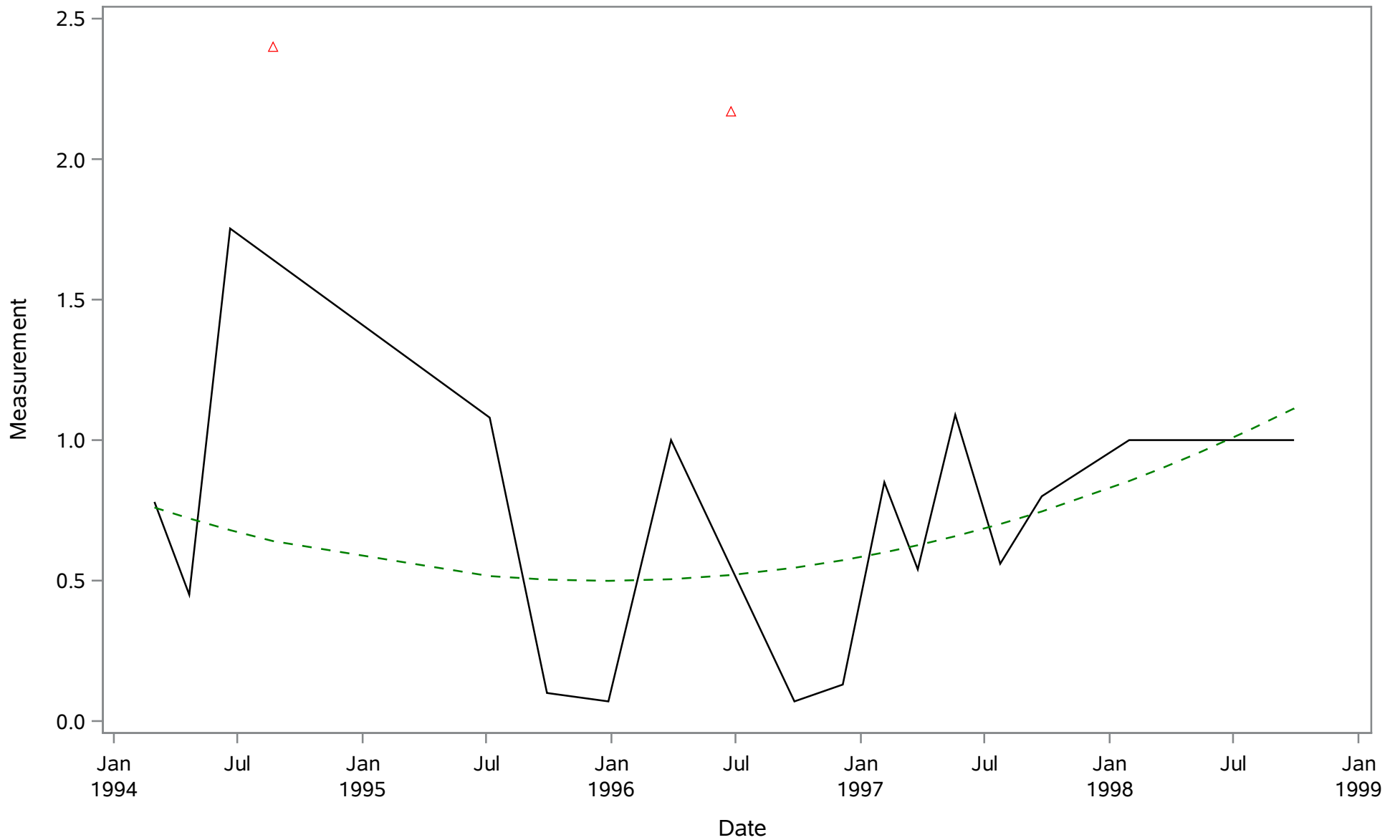
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll a (Total) ug/L



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll b (Total) ug/L

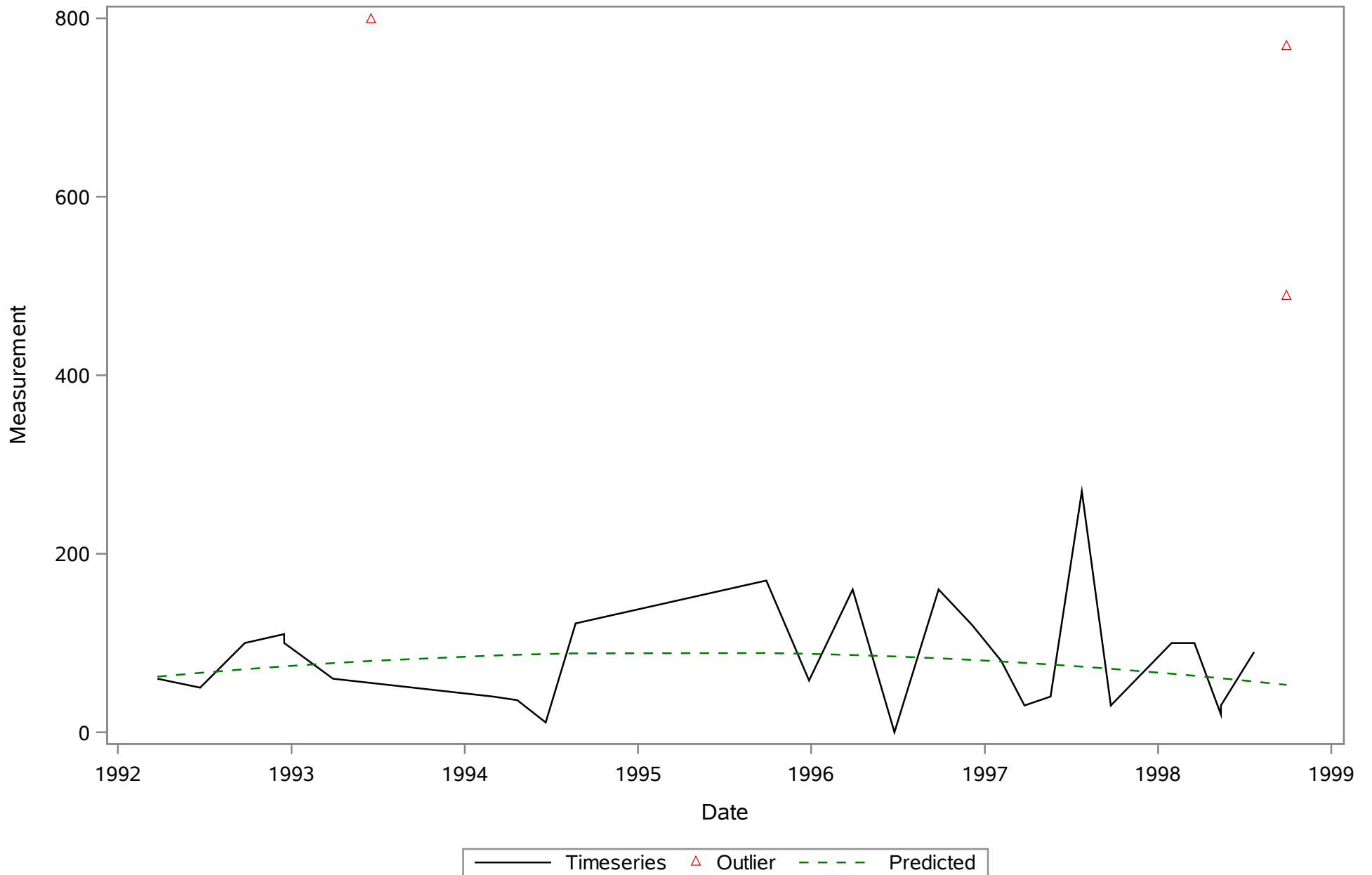


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll c (Total) ug/L

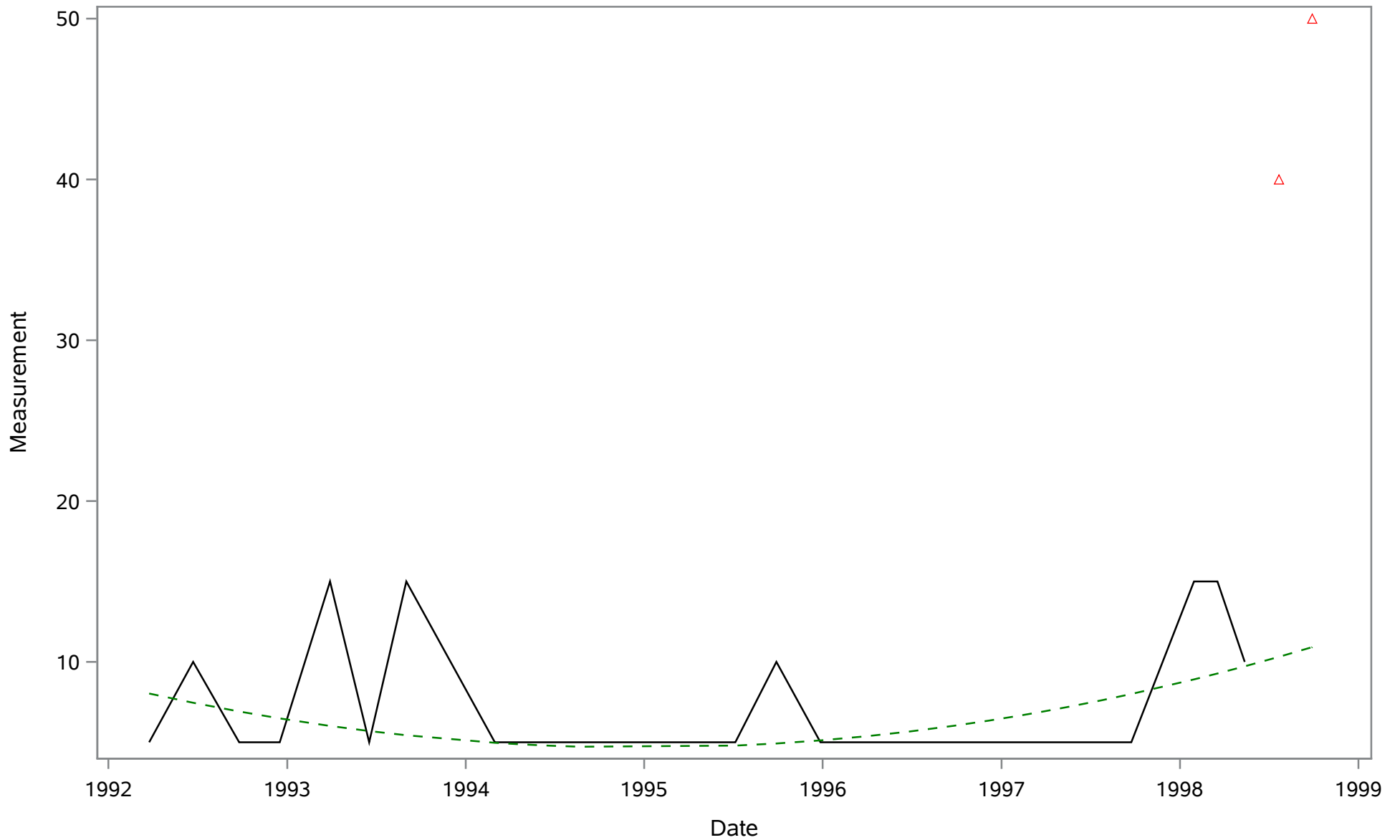


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Coliform Fecal (Total) cfu/100 mL

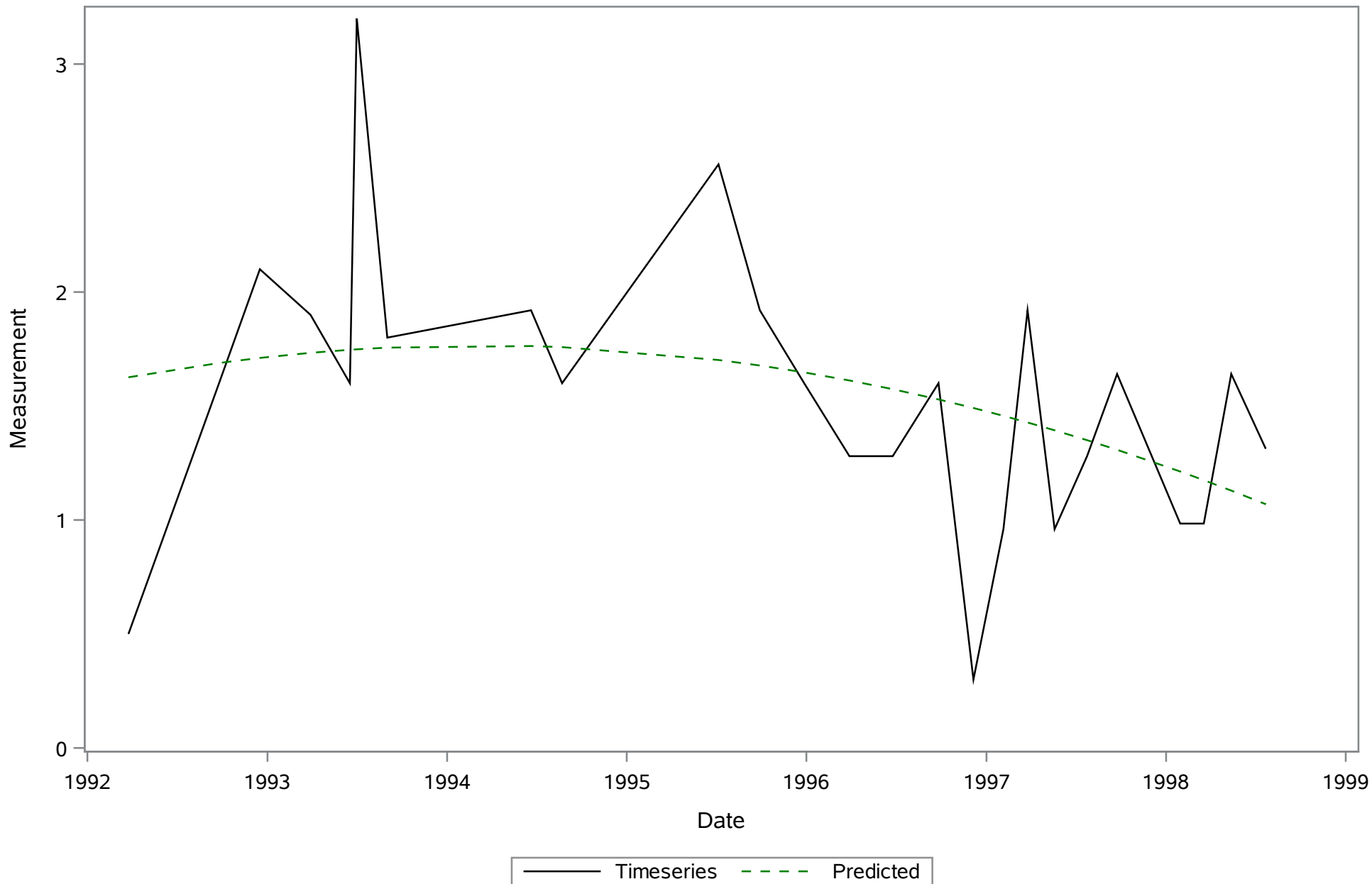


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Color (Dissolved) PCU

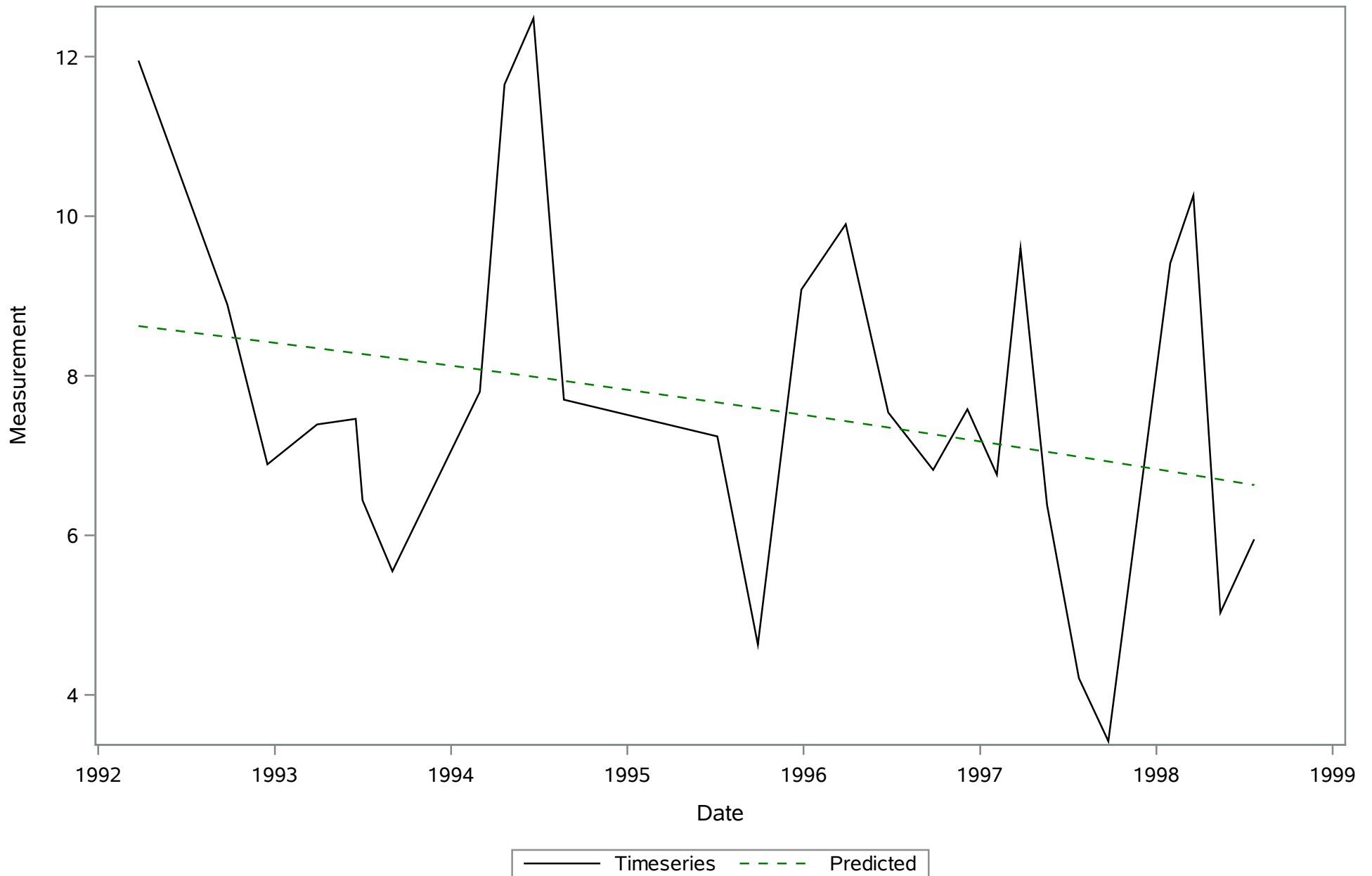


— Timeseries △ Outlier - - - Predicted

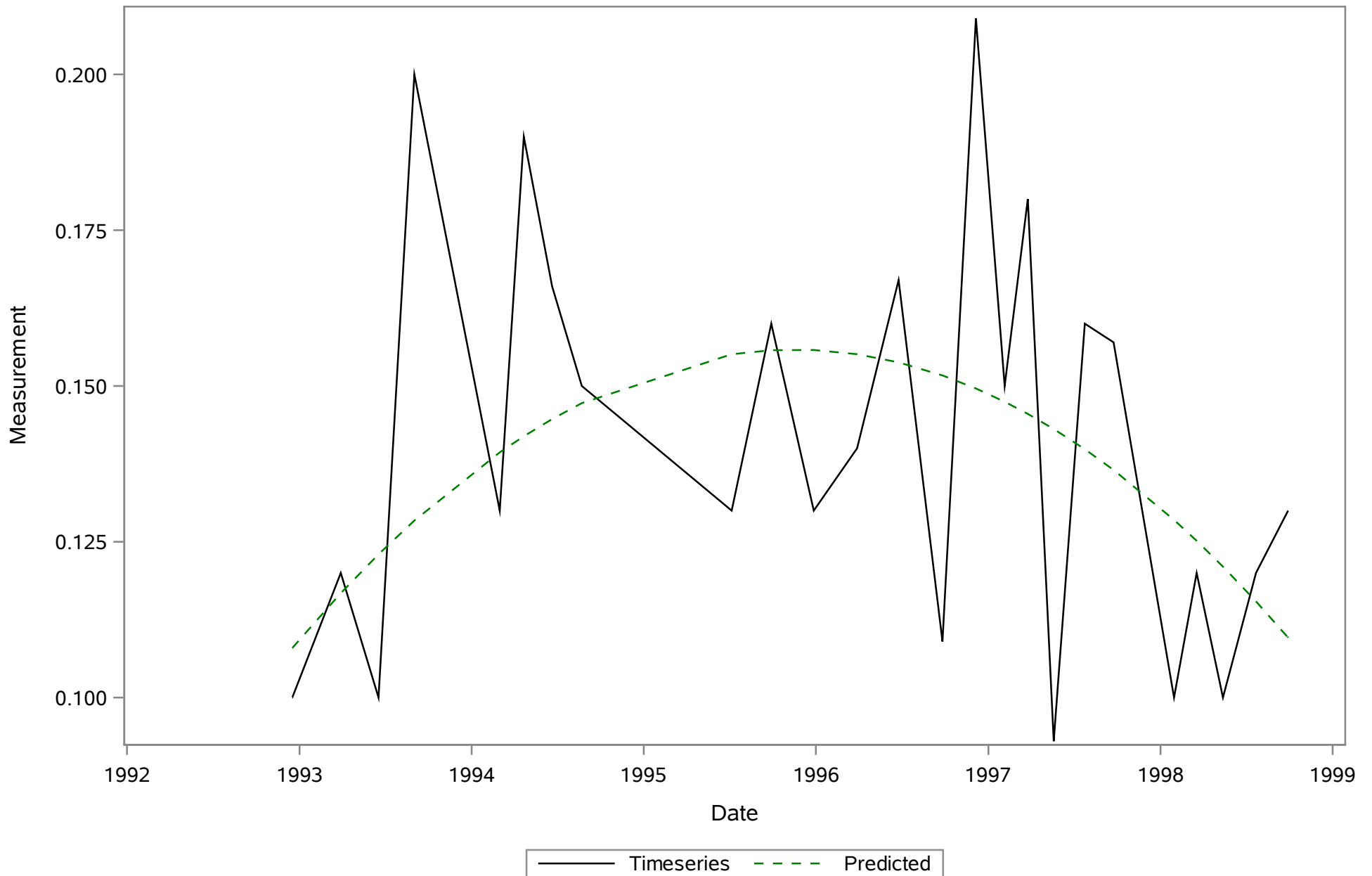
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Depth (Total) Ft.



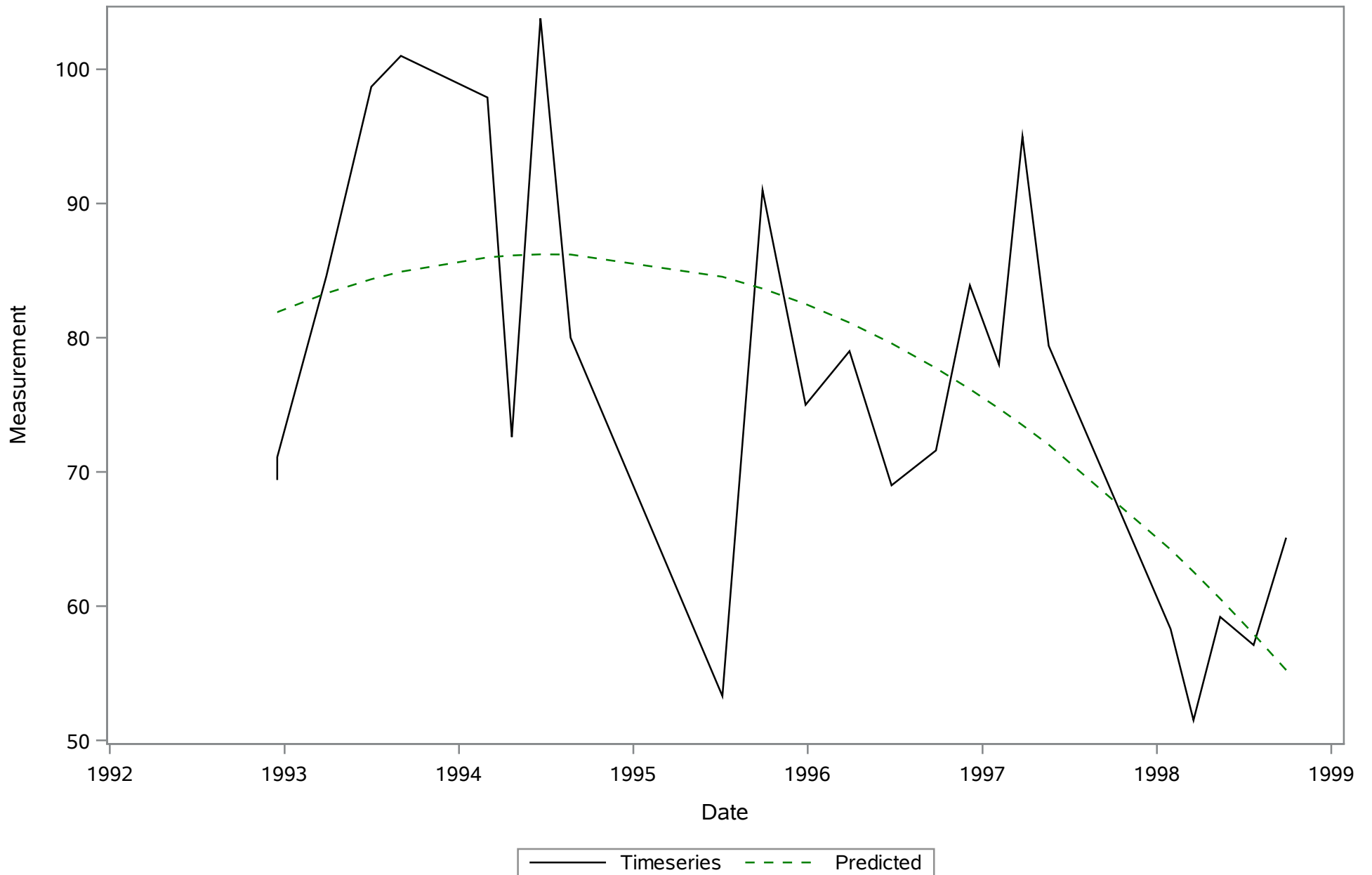
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Dissolved Oxygen (Total) mg/L



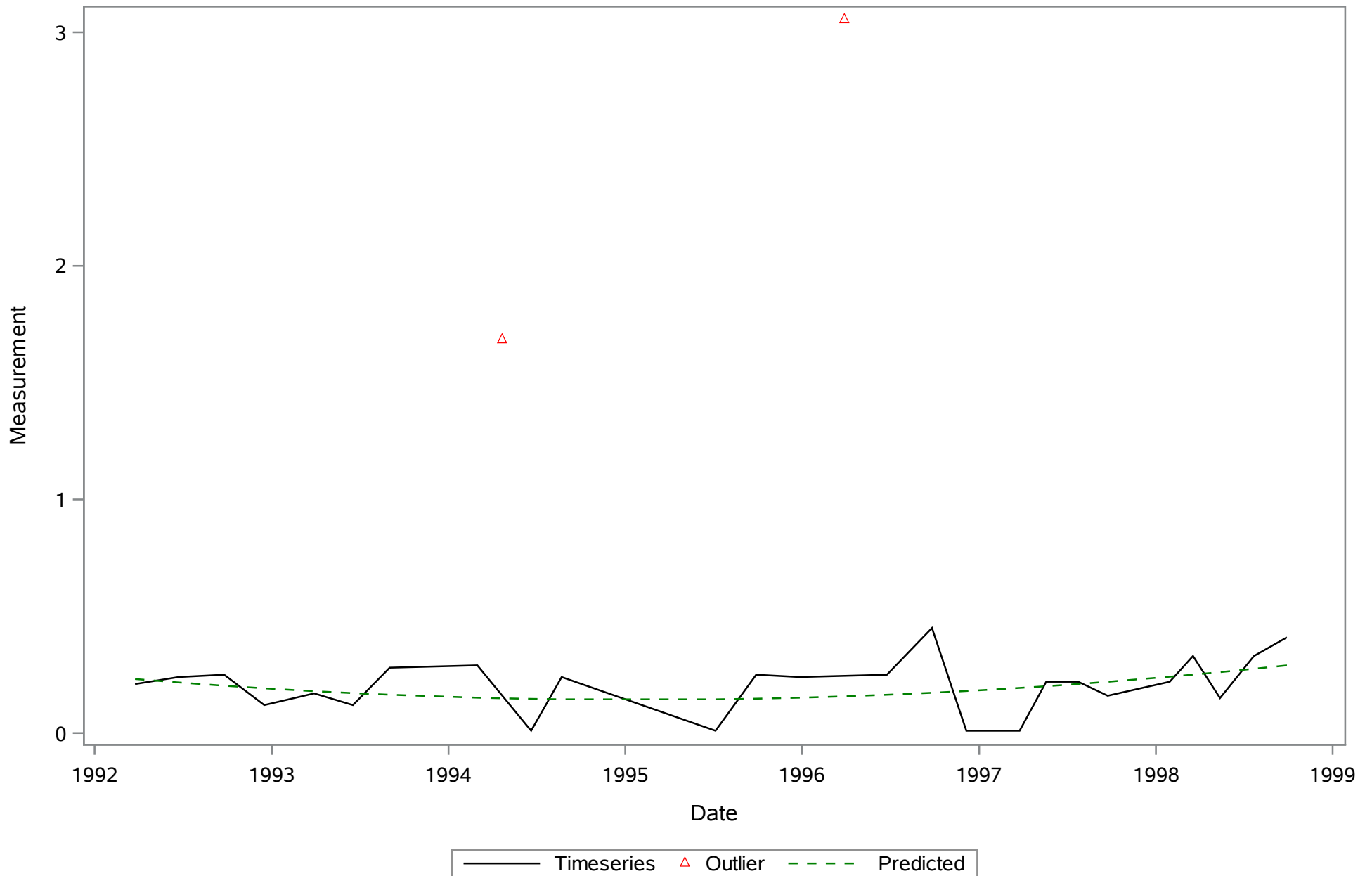
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Fluoride (Total) mg/L



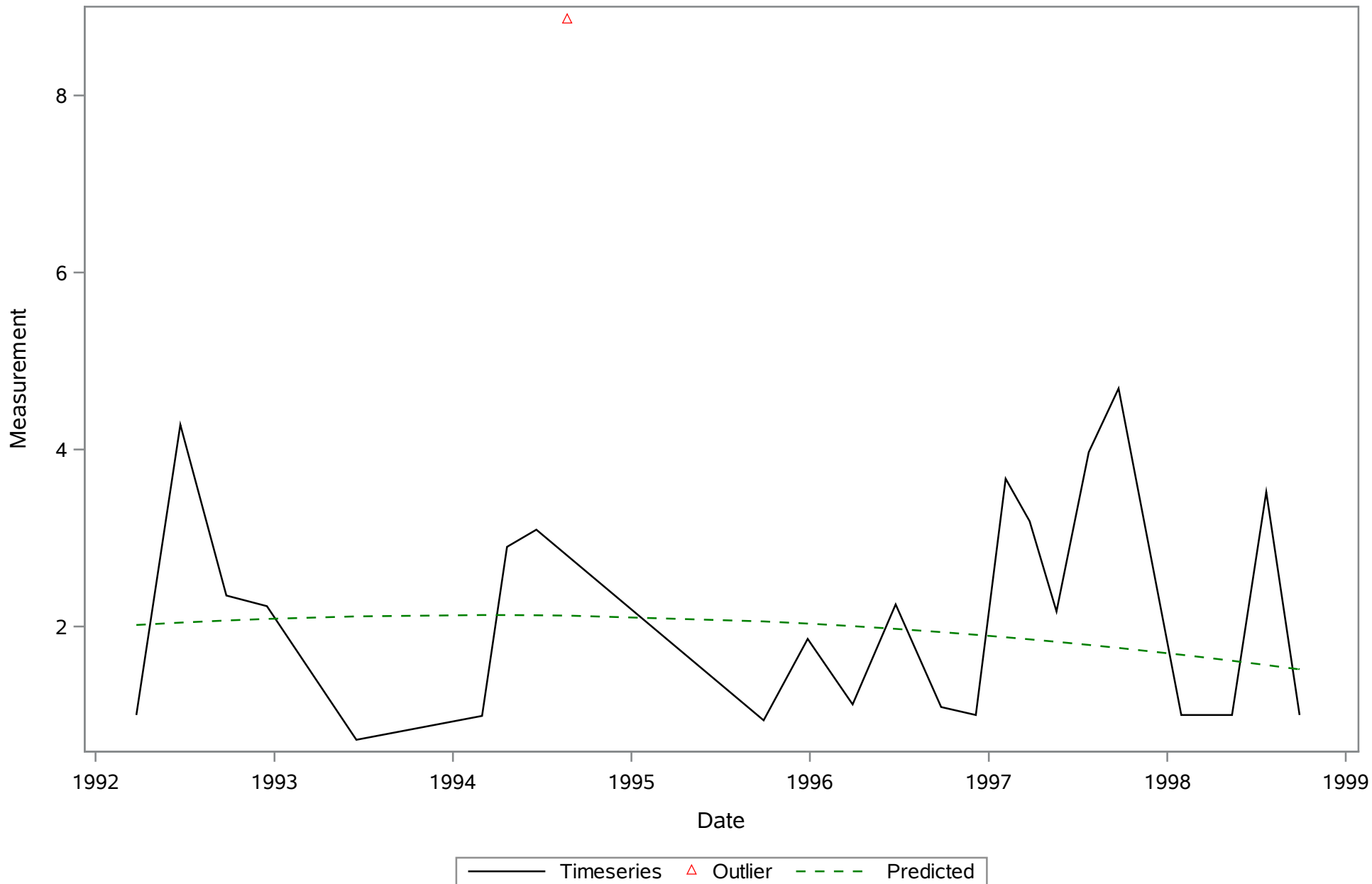
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Magnesium (Total) mg/L



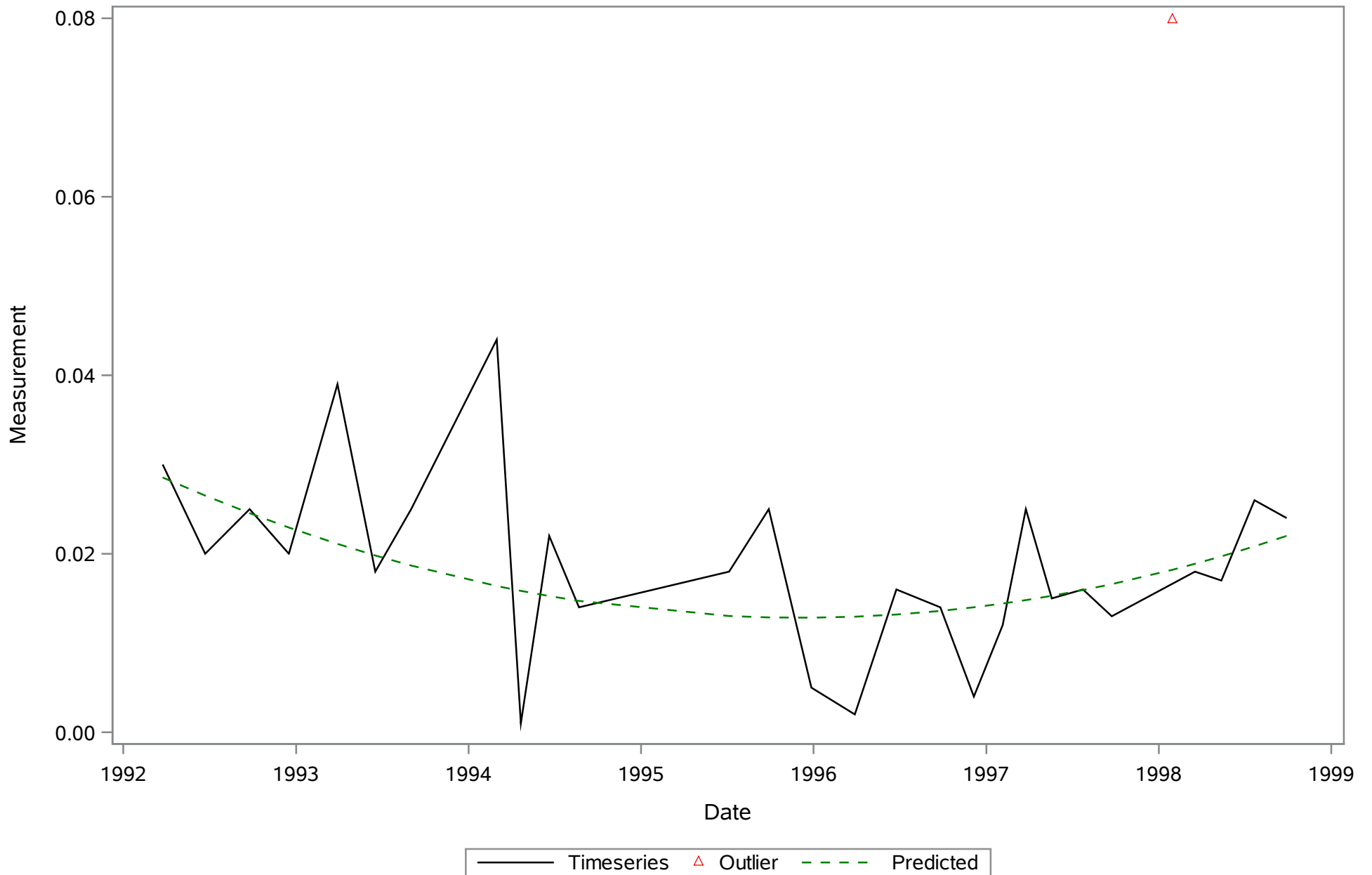
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Nitrogen- Total Kjeldahl (Total) mg/L



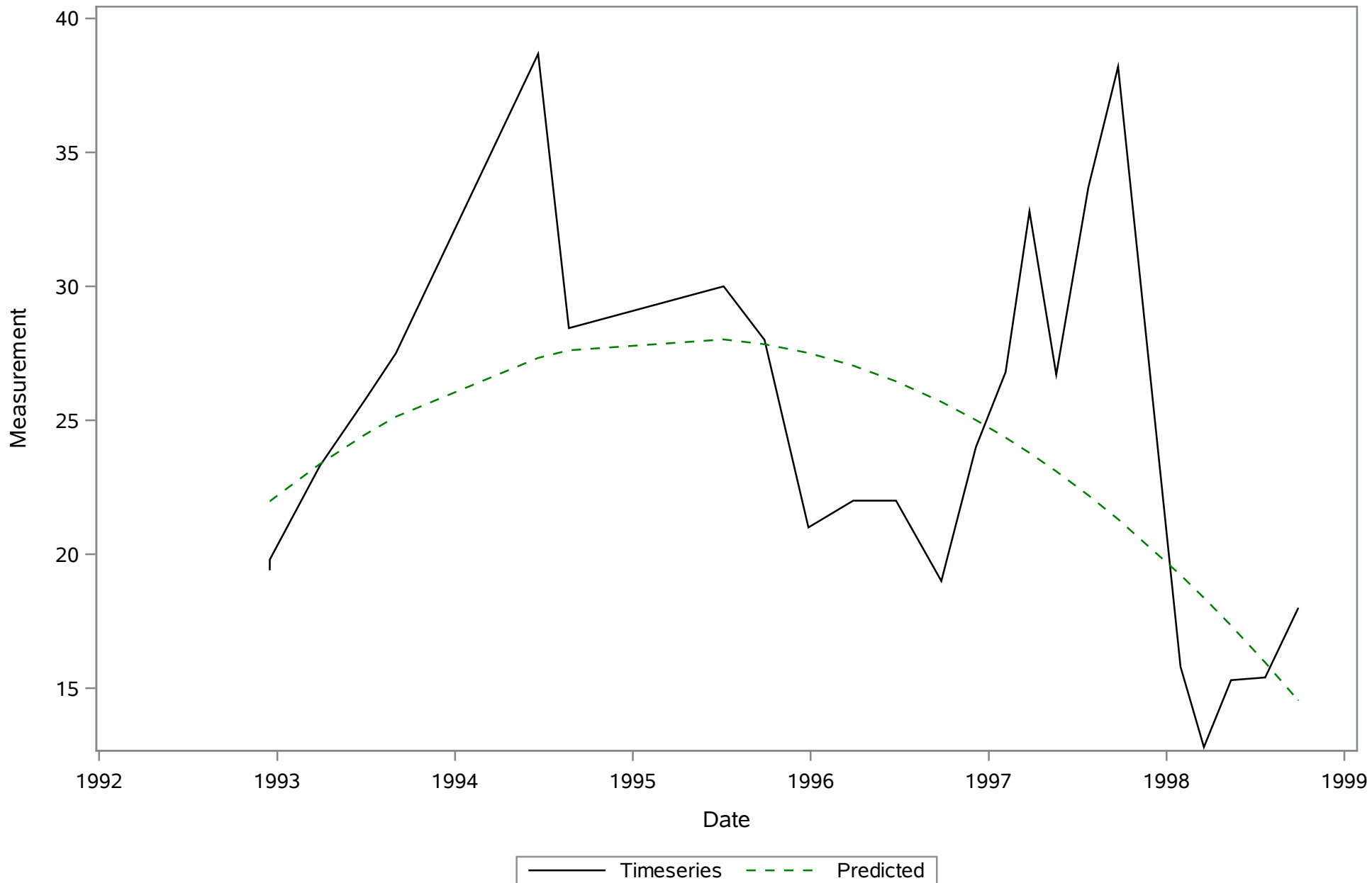
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Phaeophytin (Total) ug/L



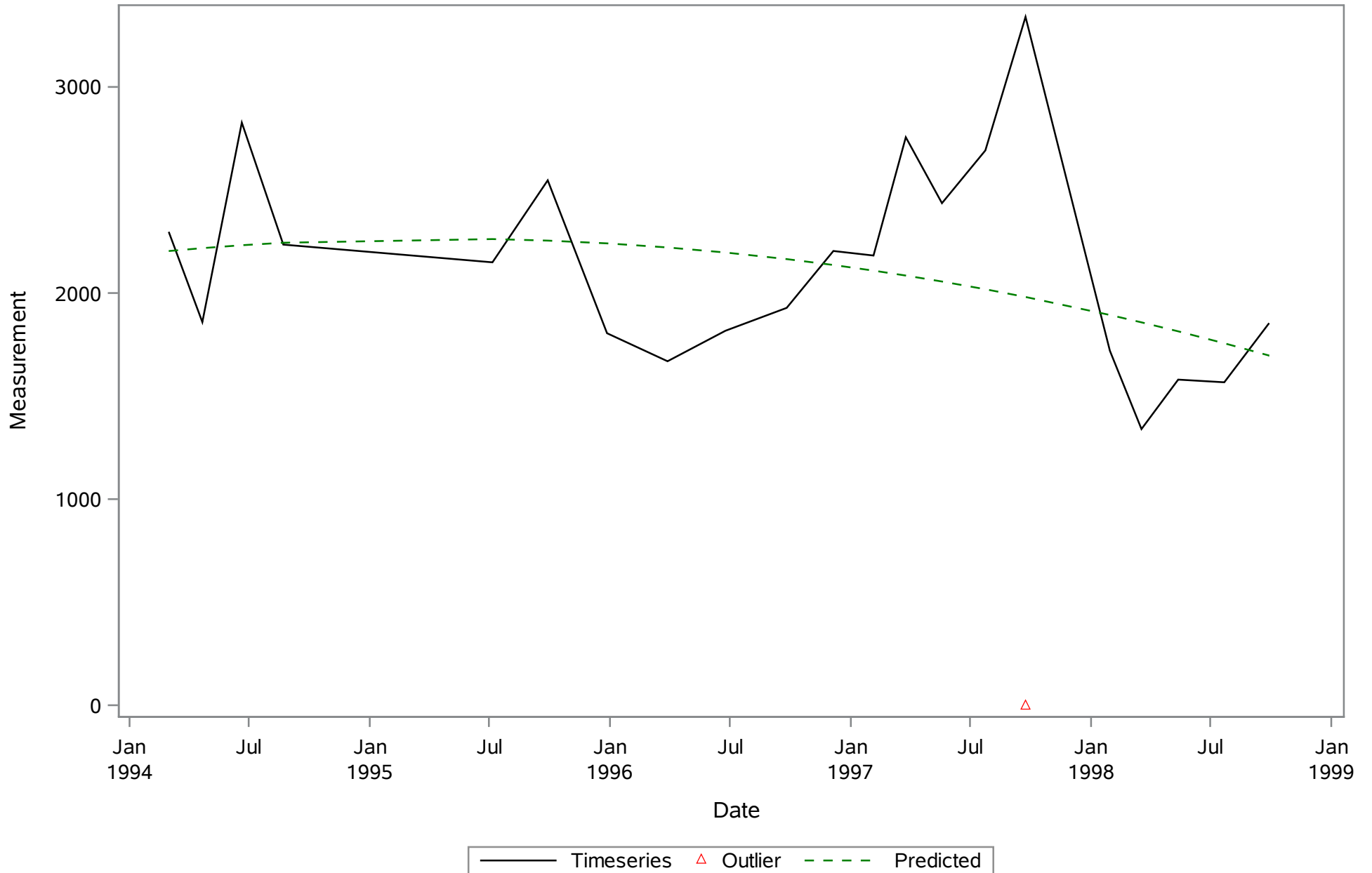
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Phosphorus- Total (Total) mg/L



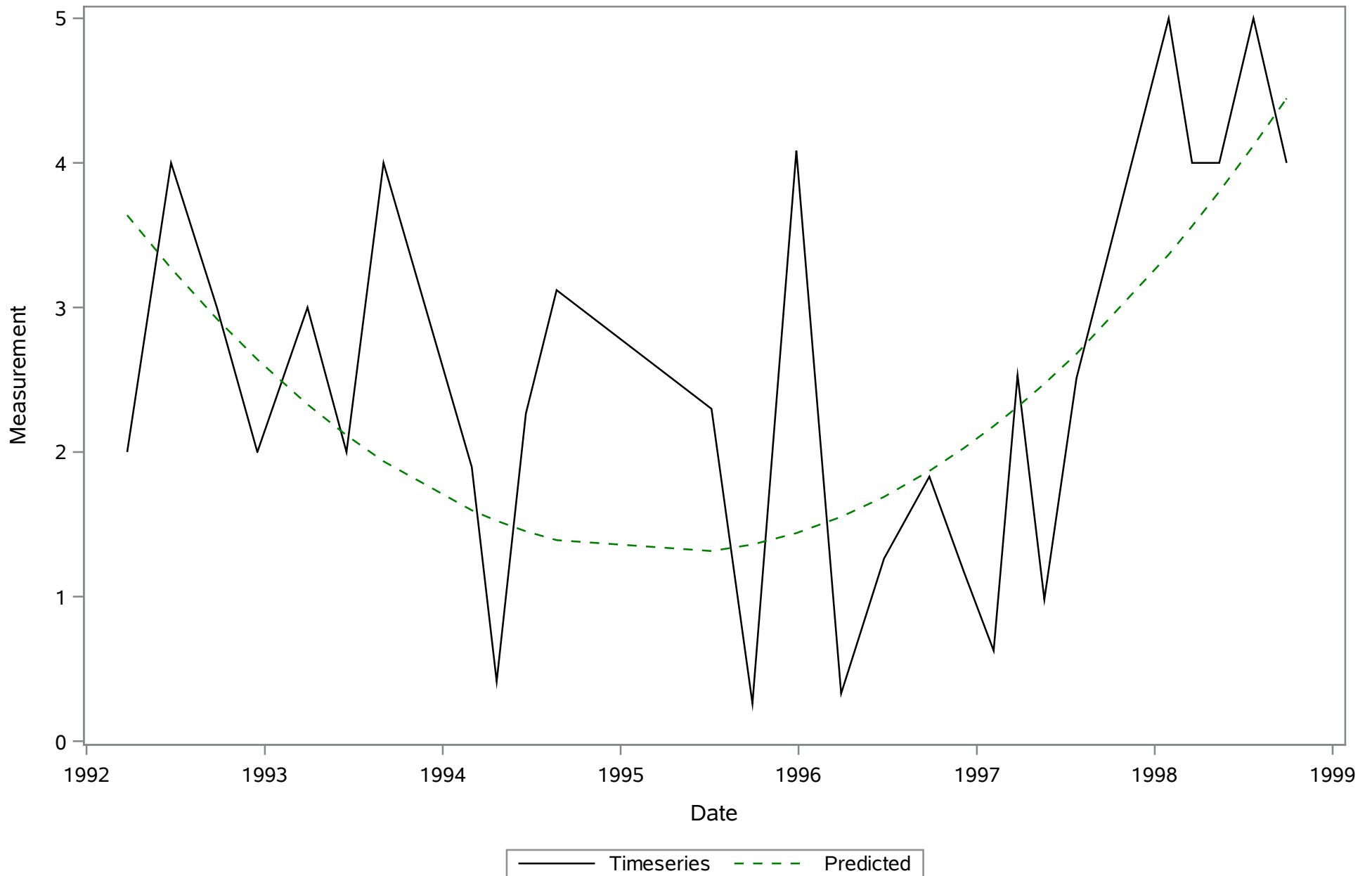
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Potassium (Total) mg/L



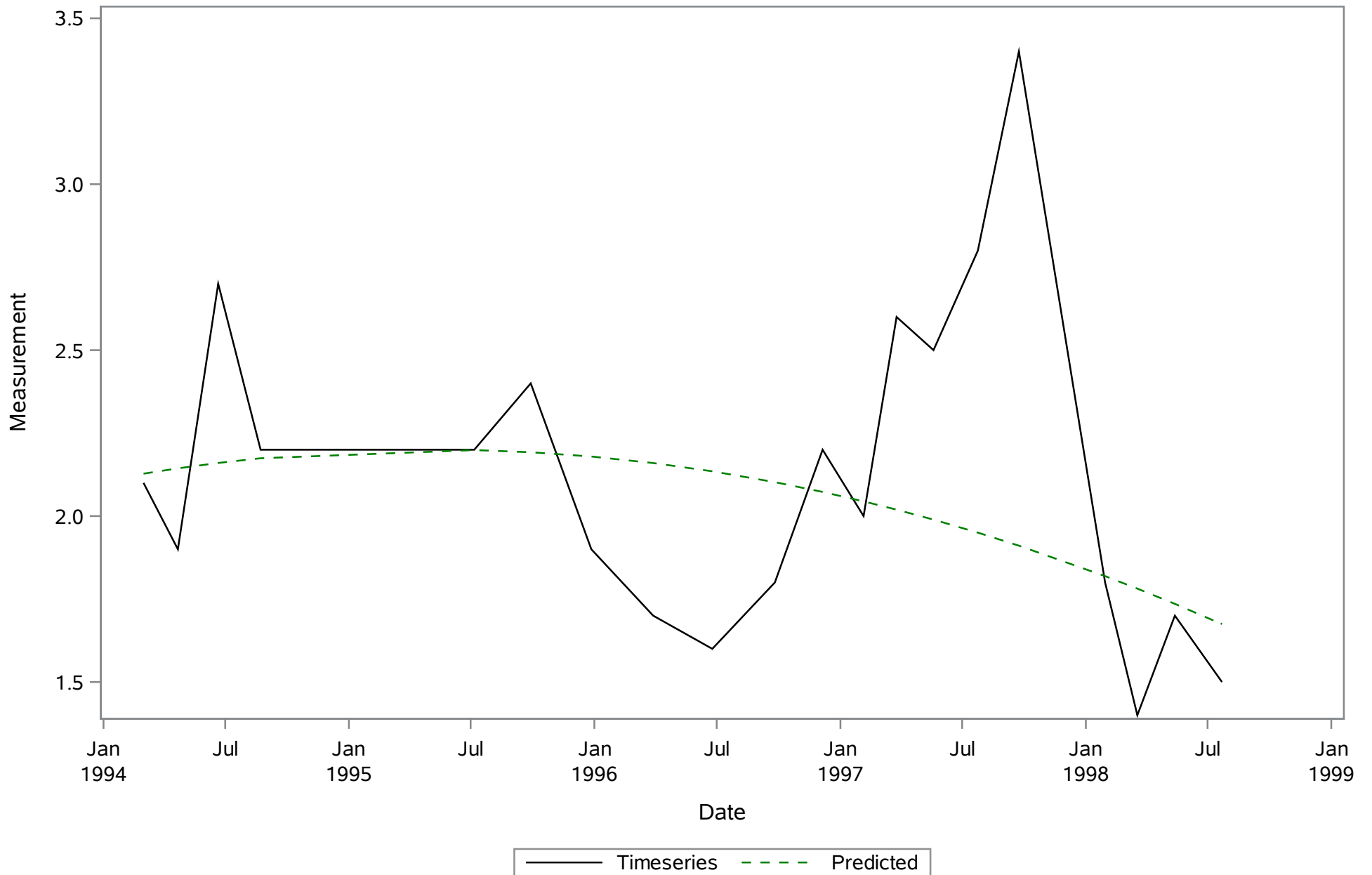
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Filterable (TDS) (Dissolved) mg/L



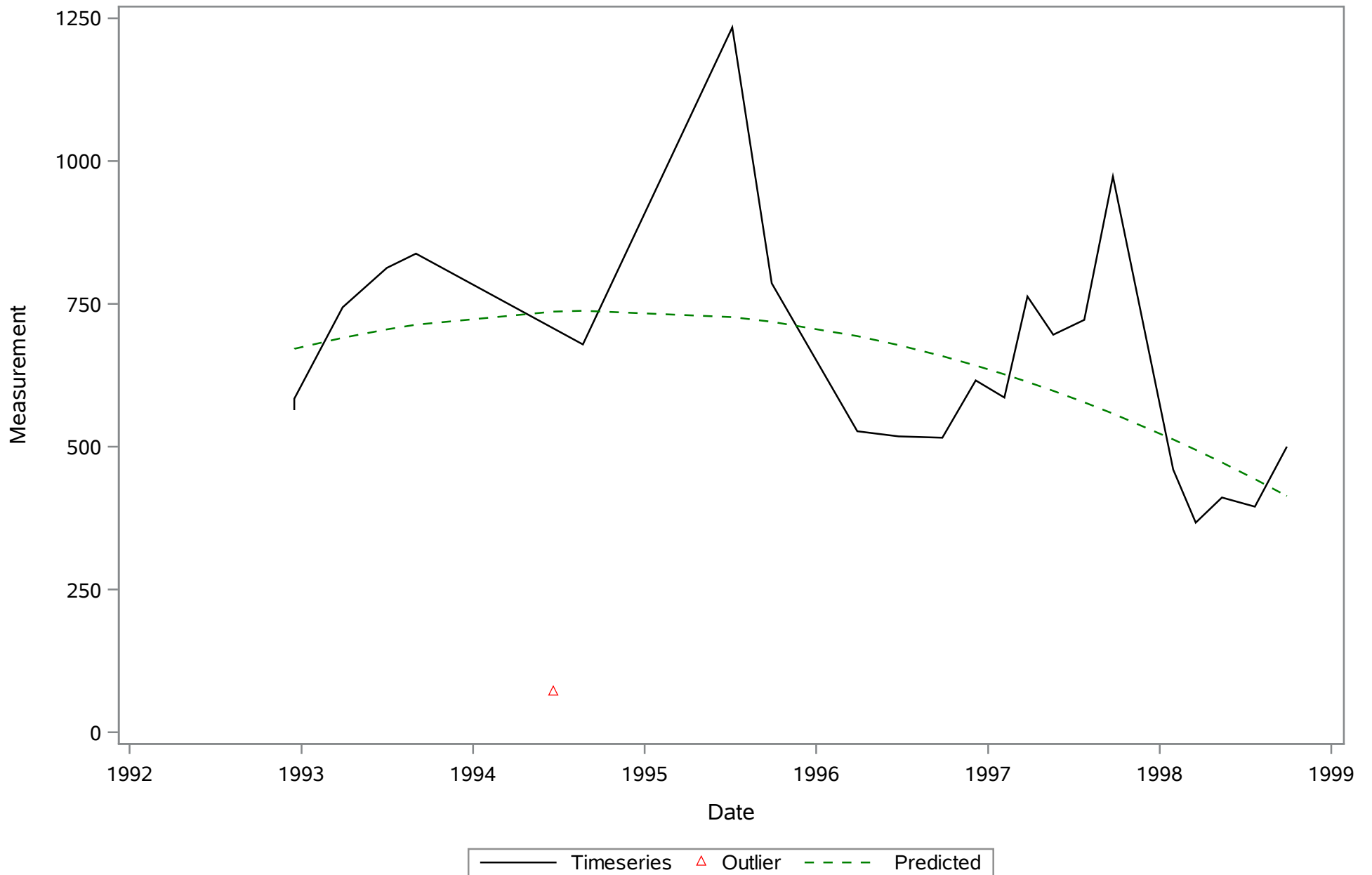
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Nonfilterable (TSS) (Total) mg/L



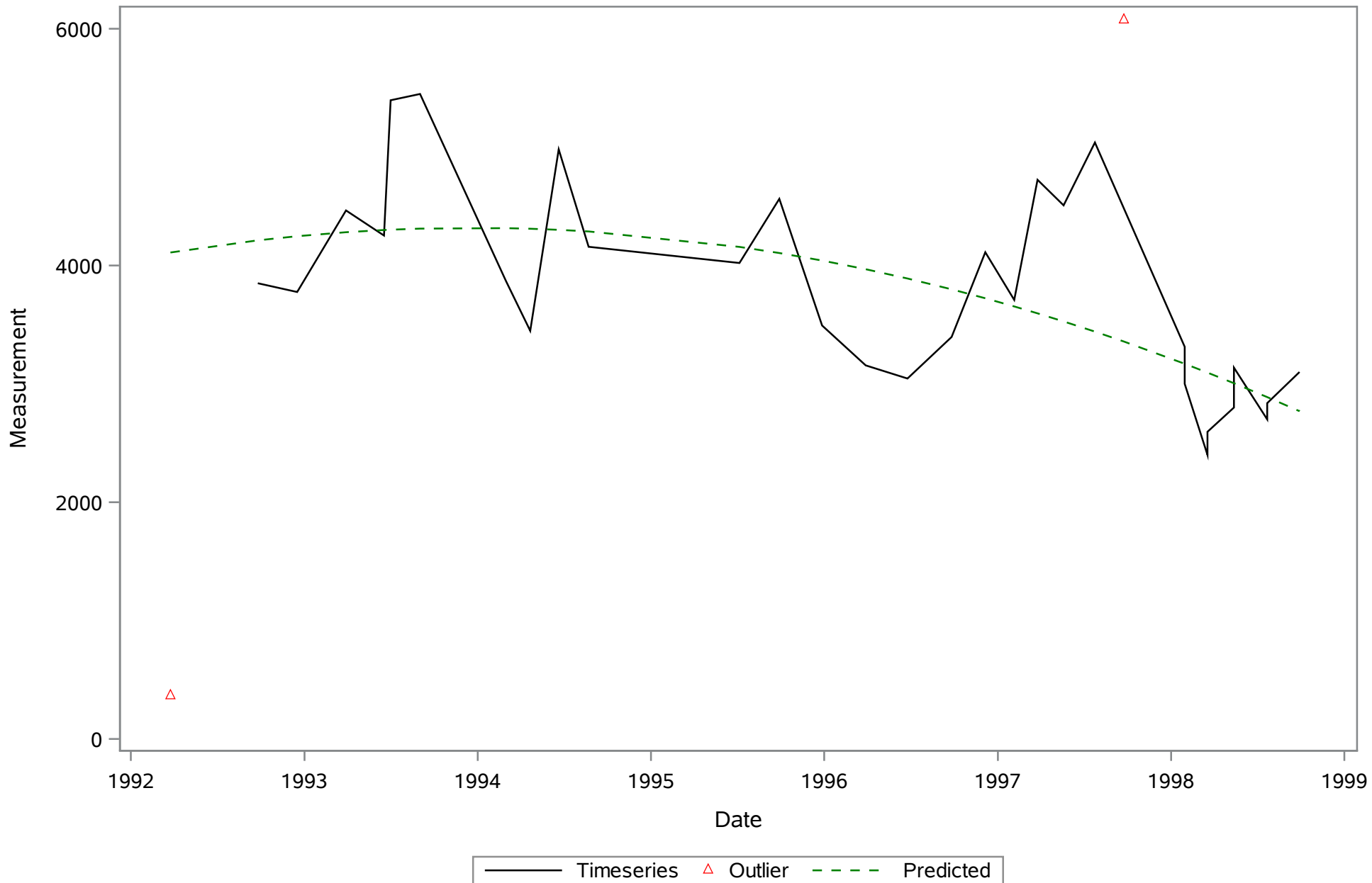
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Salinity (Total) ppth



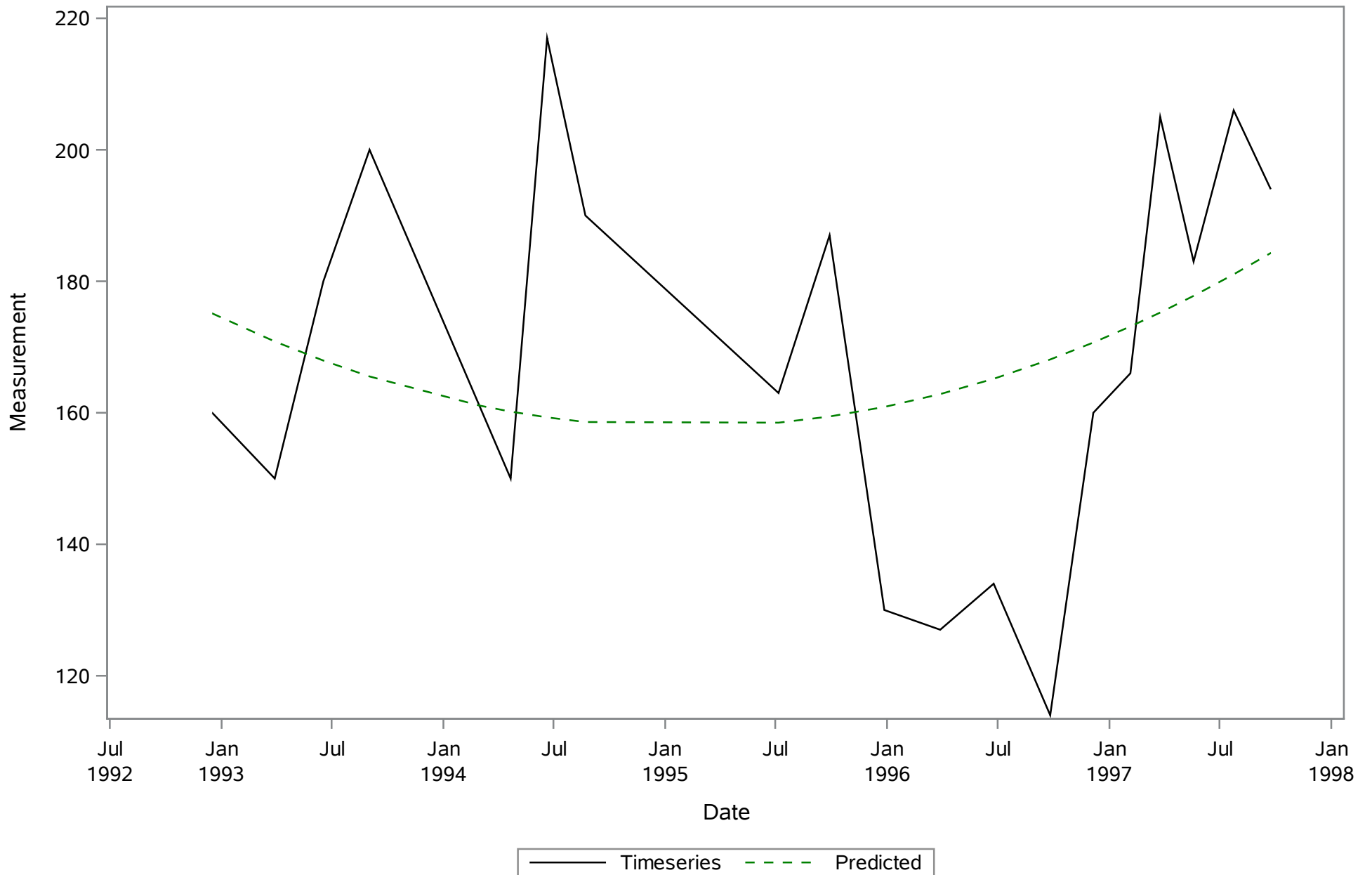
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Sodium (Total) mg/L



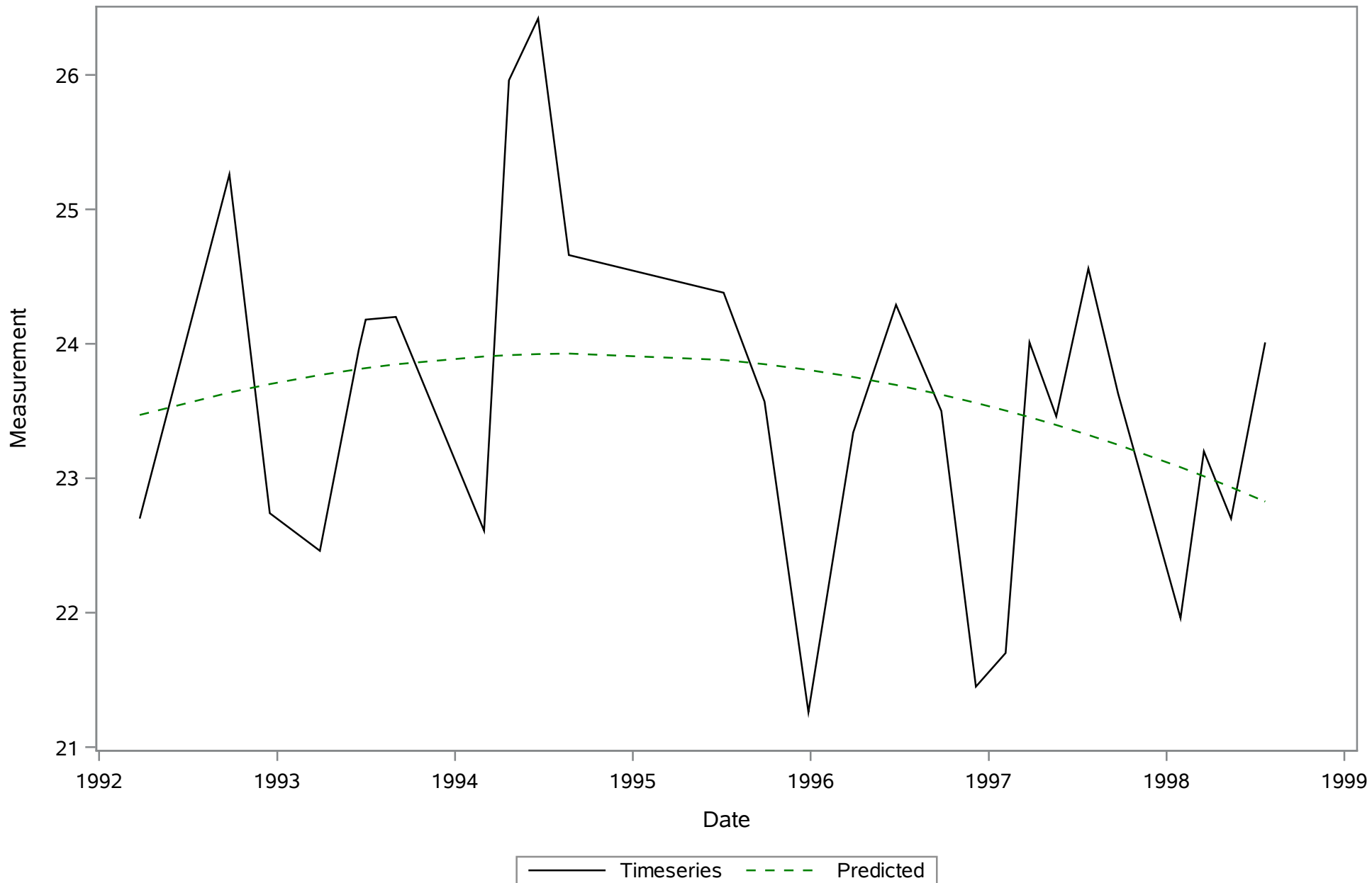
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Specific Conductance (Total) uS/cm



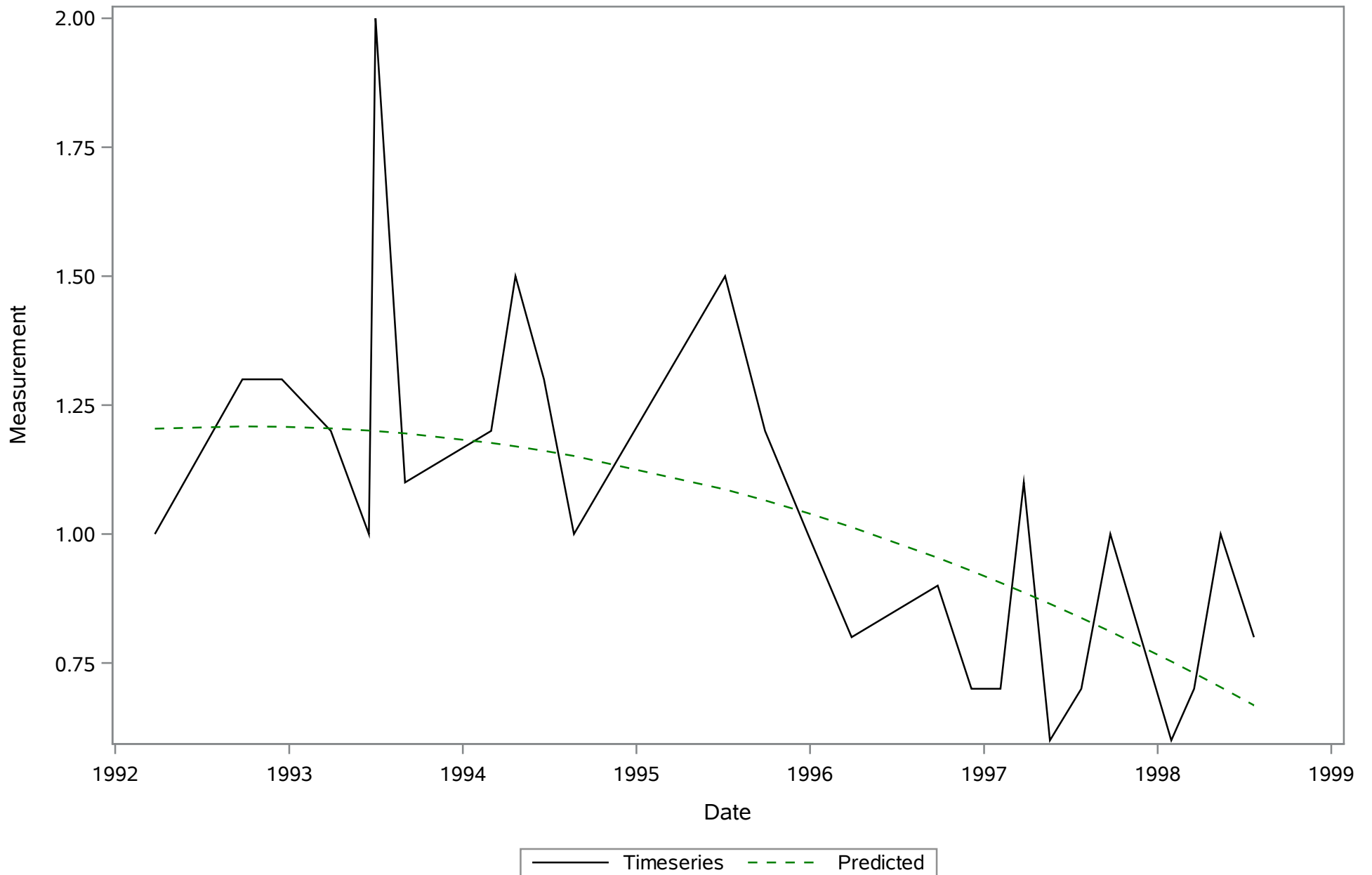
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Sulfate (Dissolved) mg/L



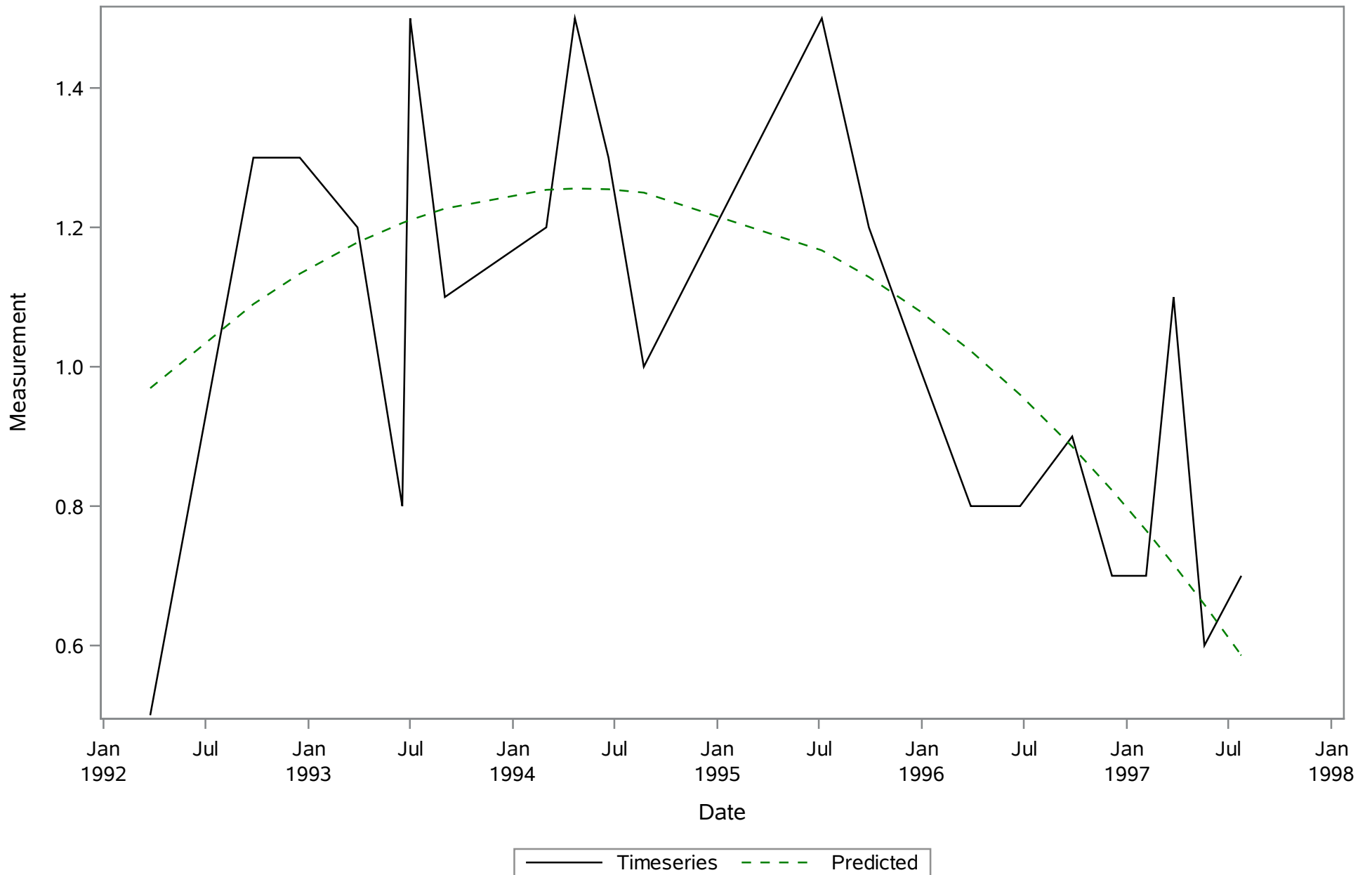
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Temperature (Total) Deg. C



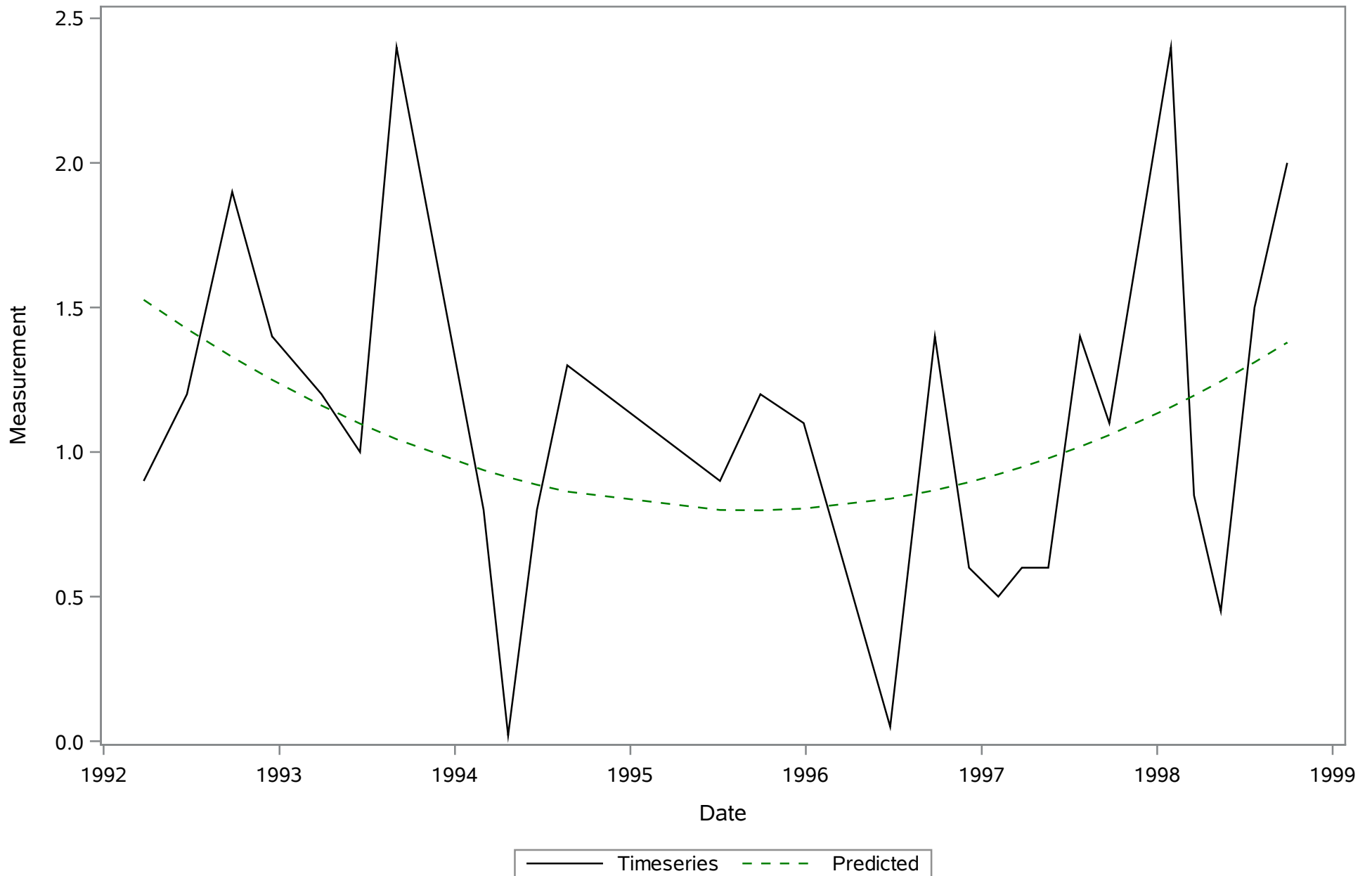
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Total depth at monitored location Meters



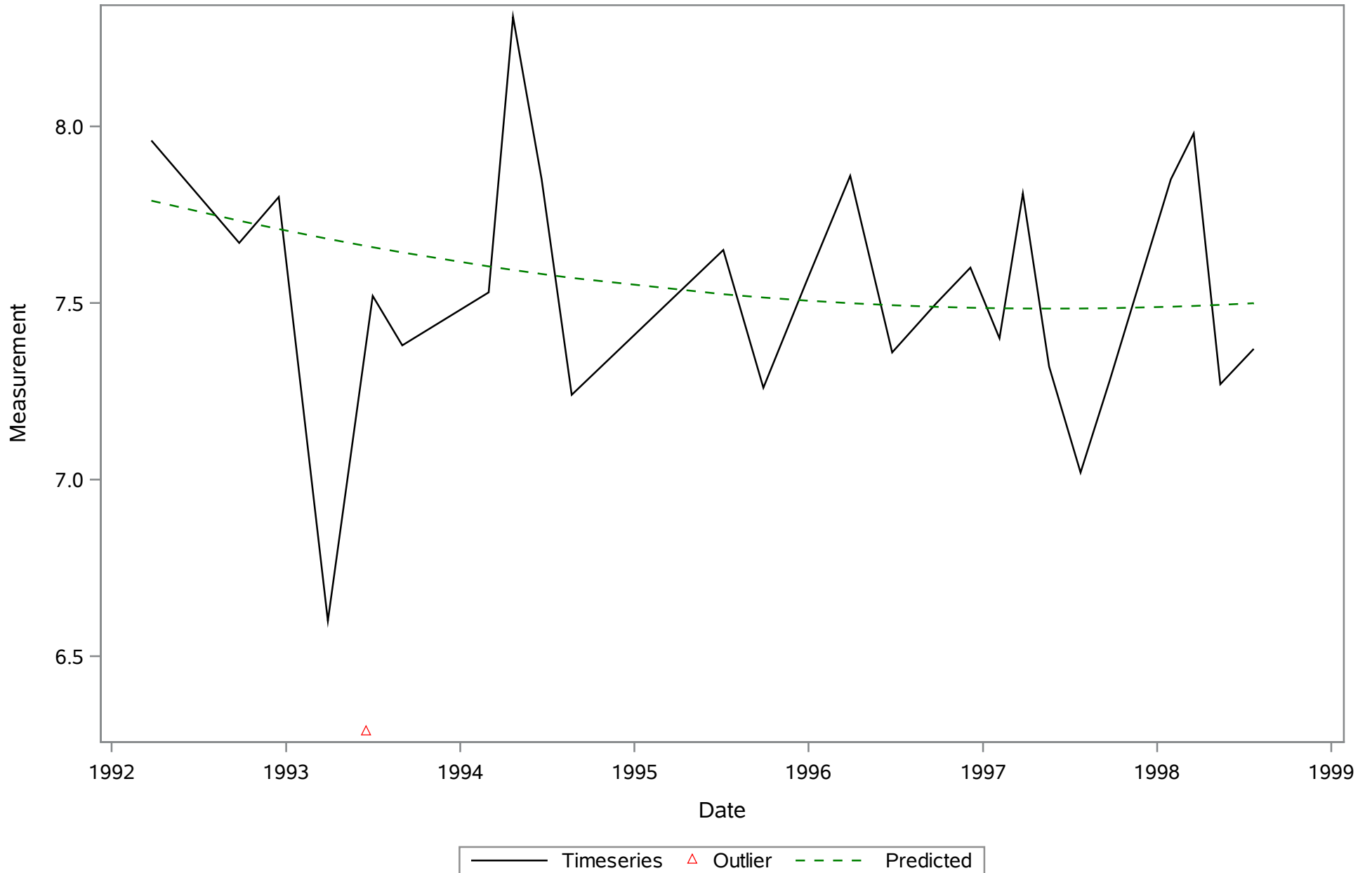
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Transparency (Total) Meters



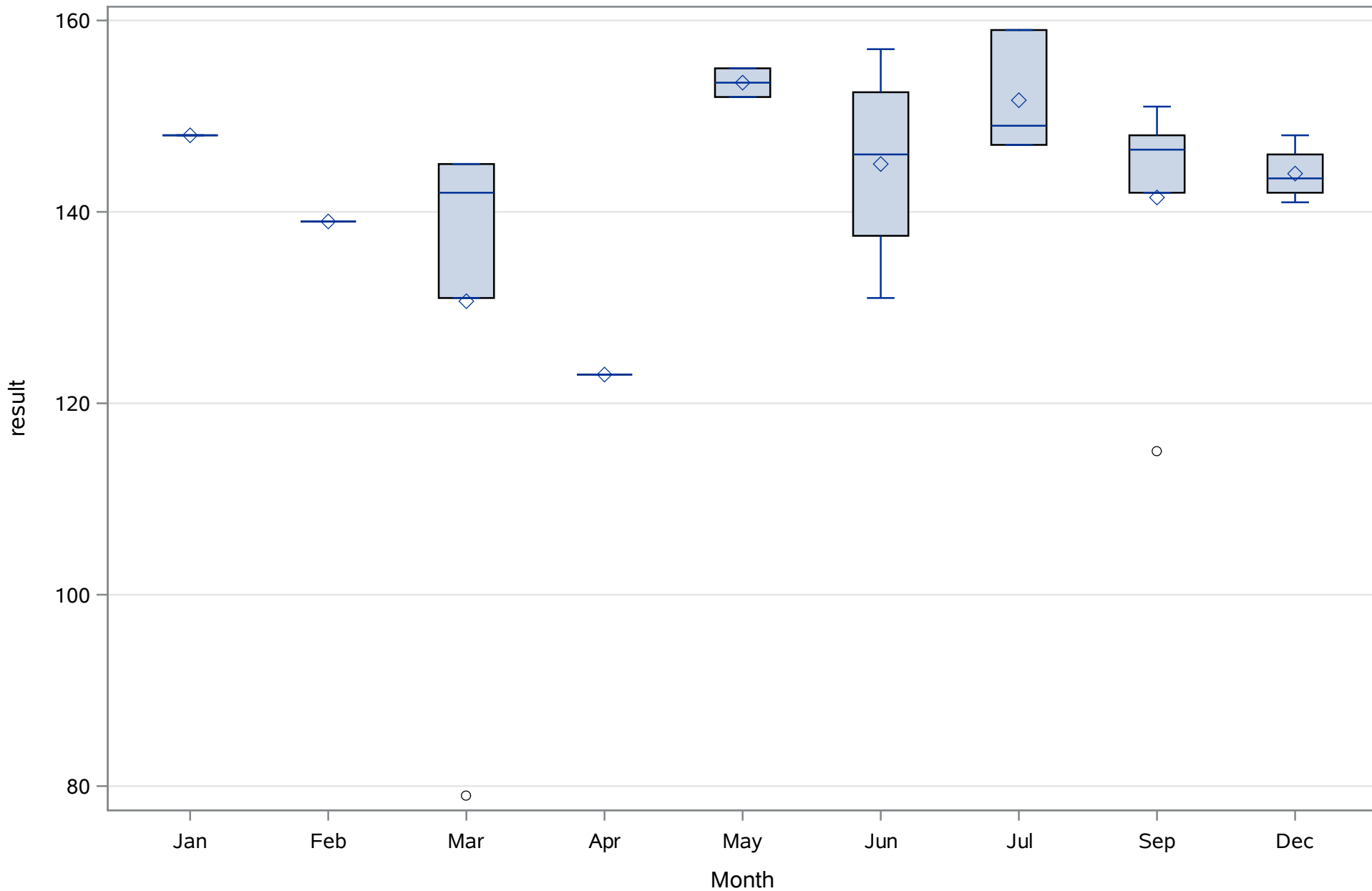
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Turbidity (Total) FTU



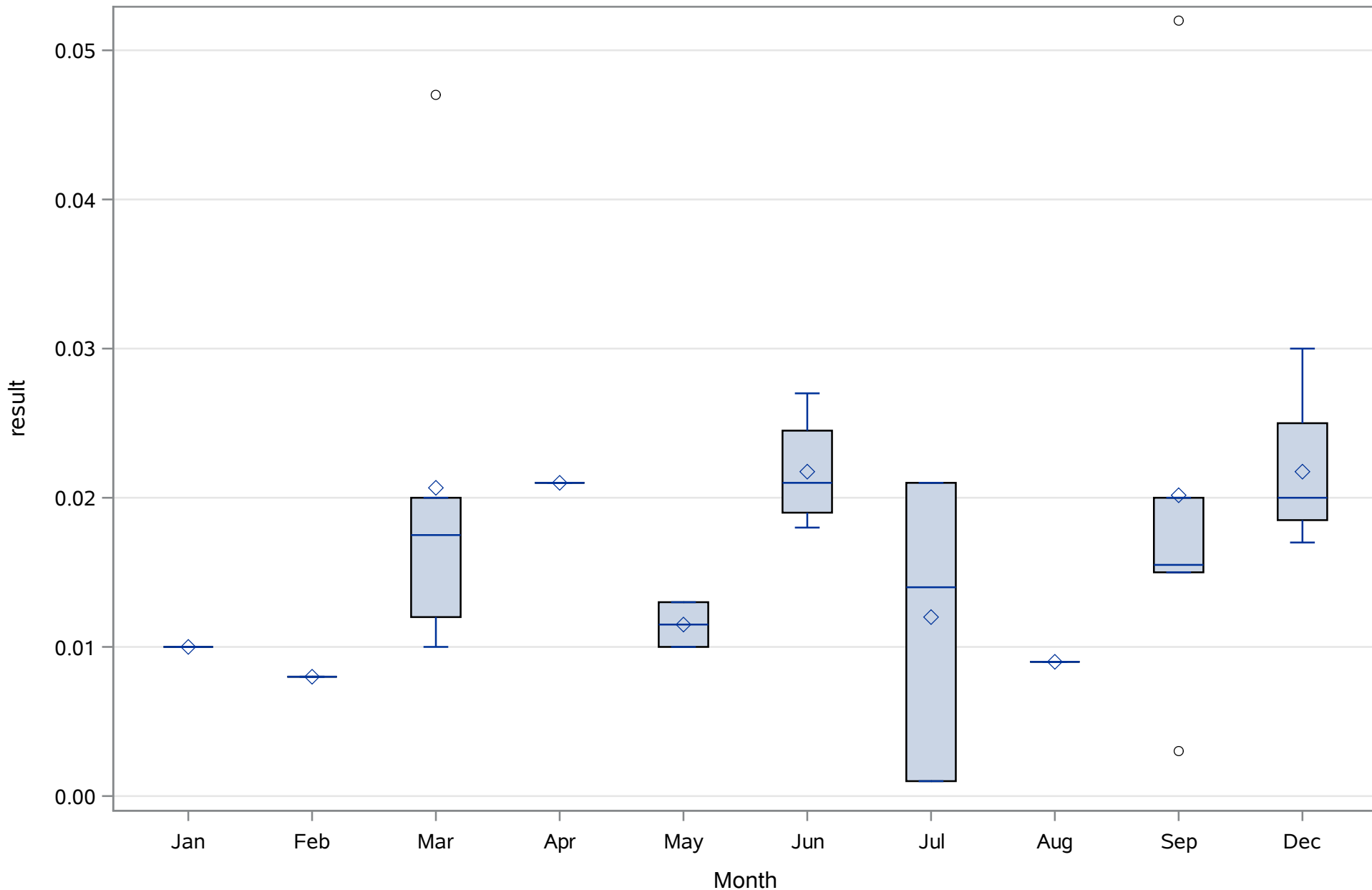
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
pH (Total) SU



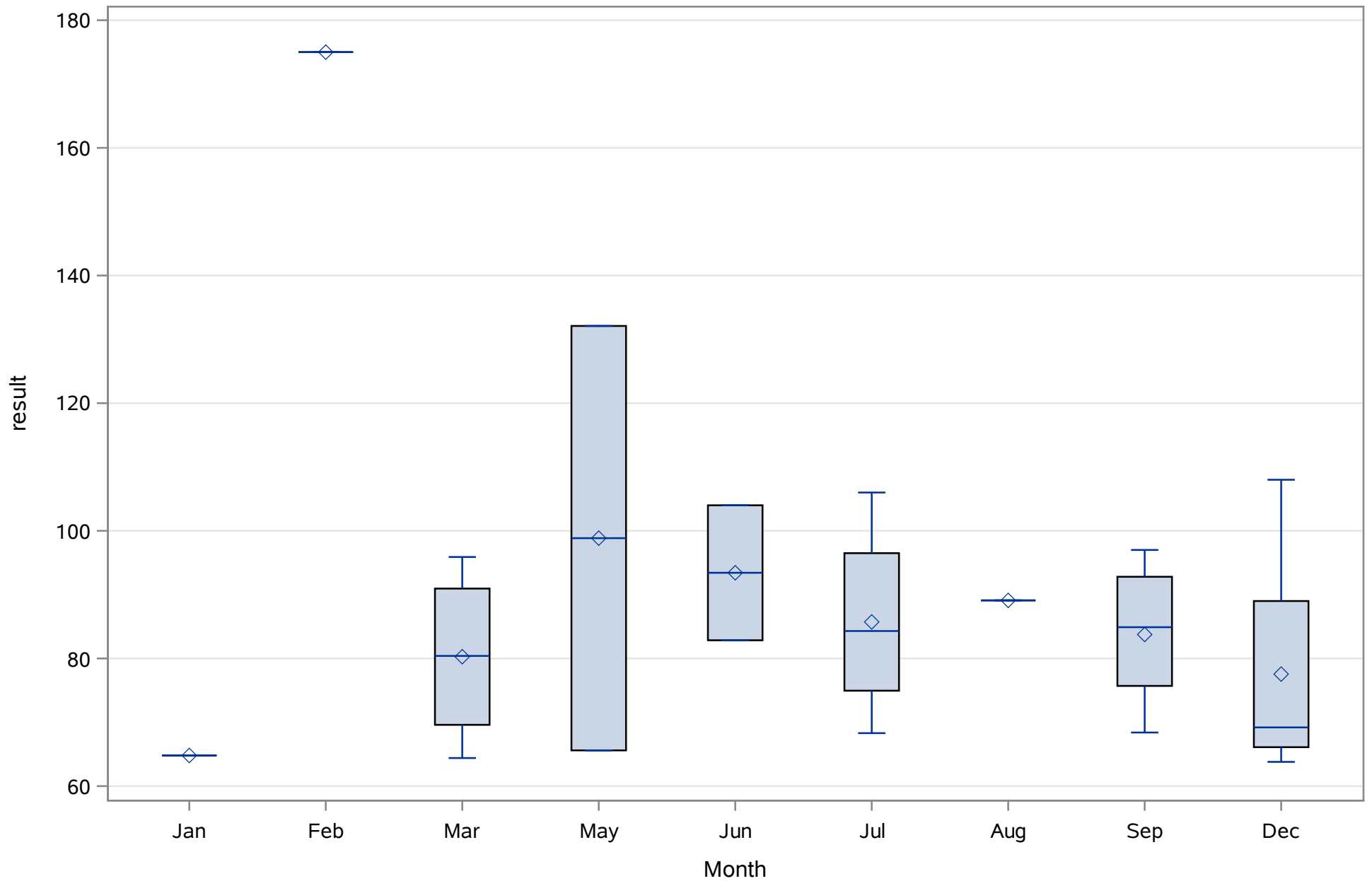
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Alkalinity (Total) mg/L



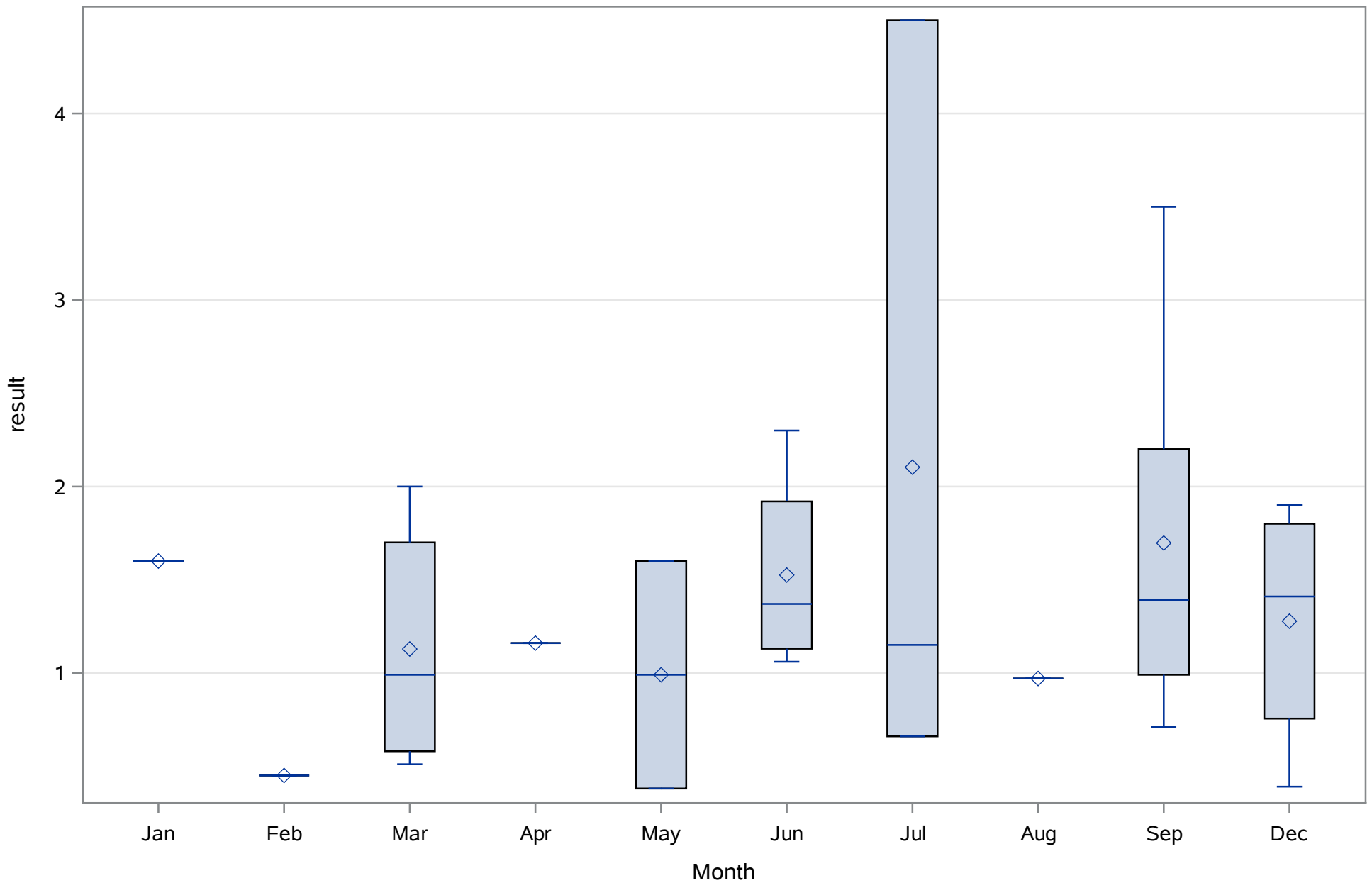
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Ammonia (N) (Total) mg/L



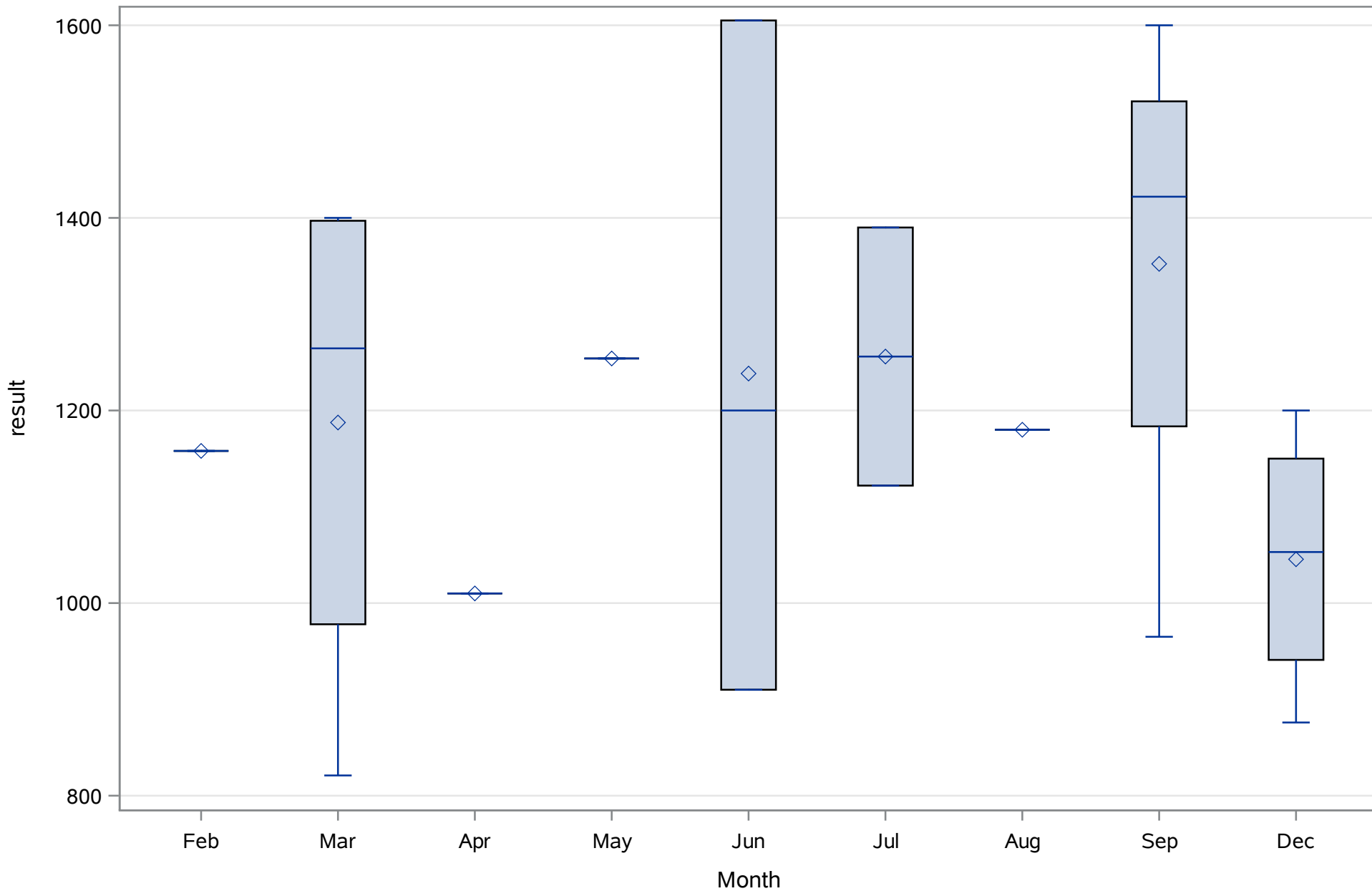
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Calcium (Total) mg/L



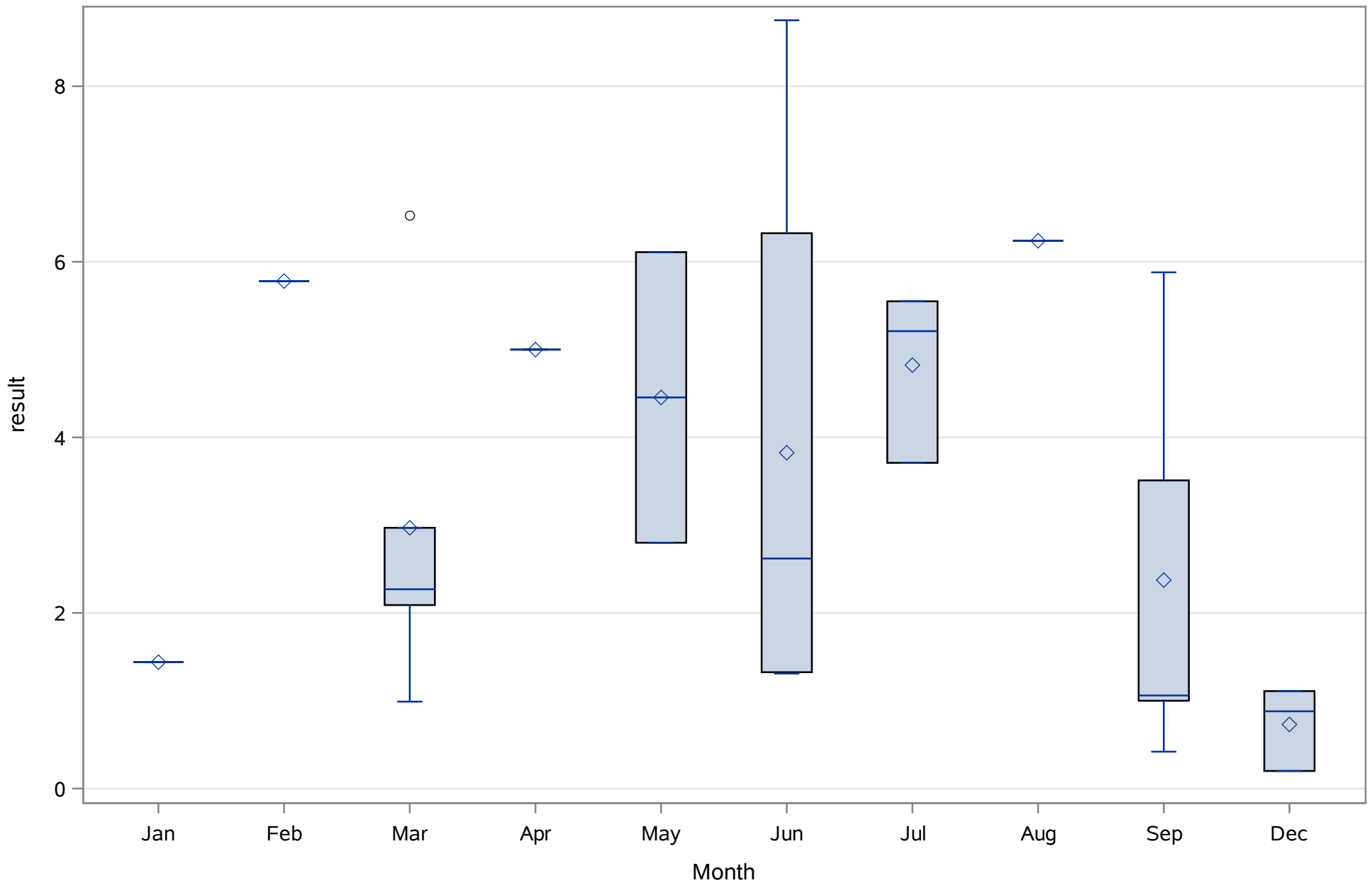
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Carbon- Total Organic (Total) mg/L



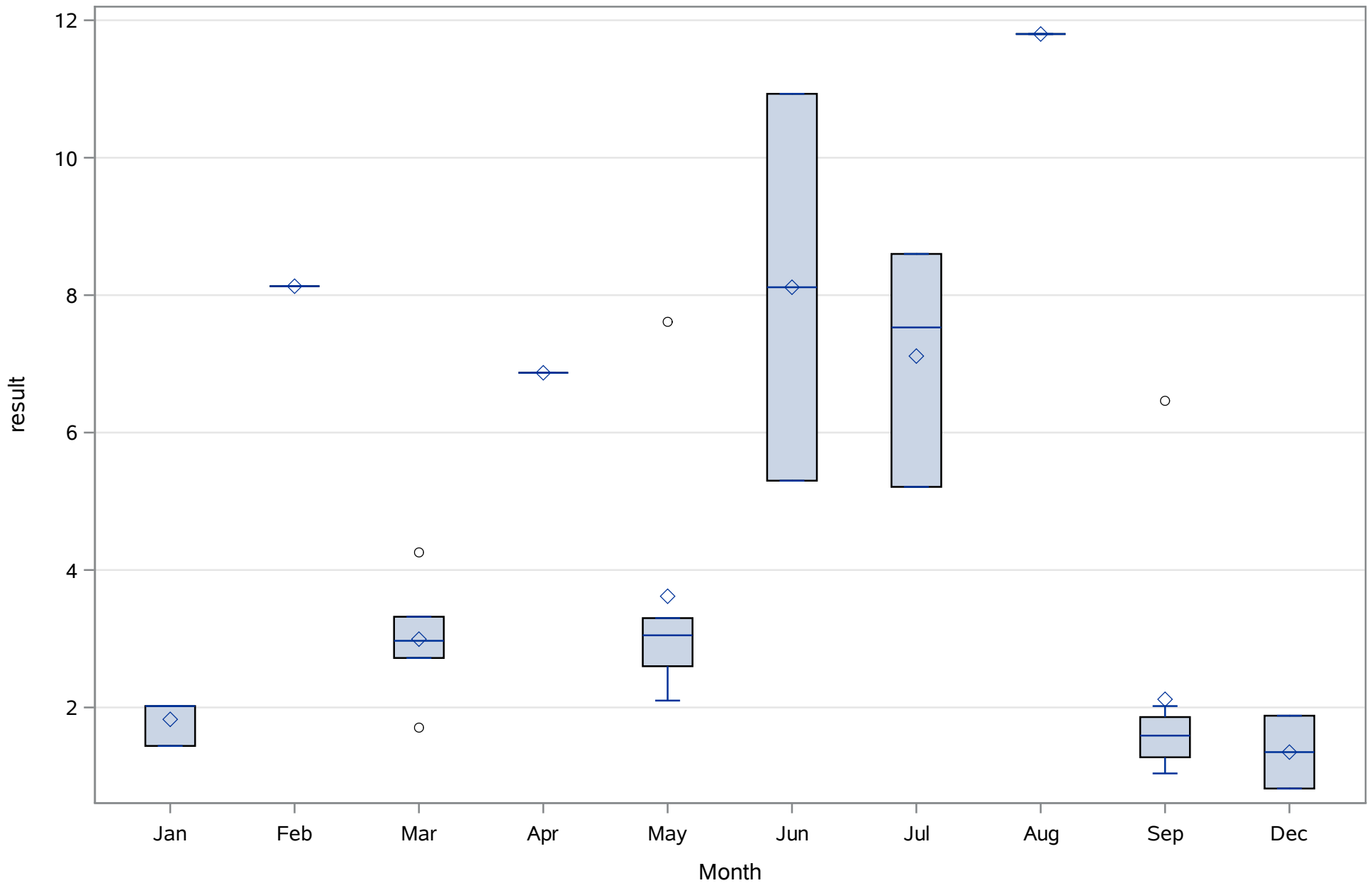
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chloride (Dissolved) mg/L



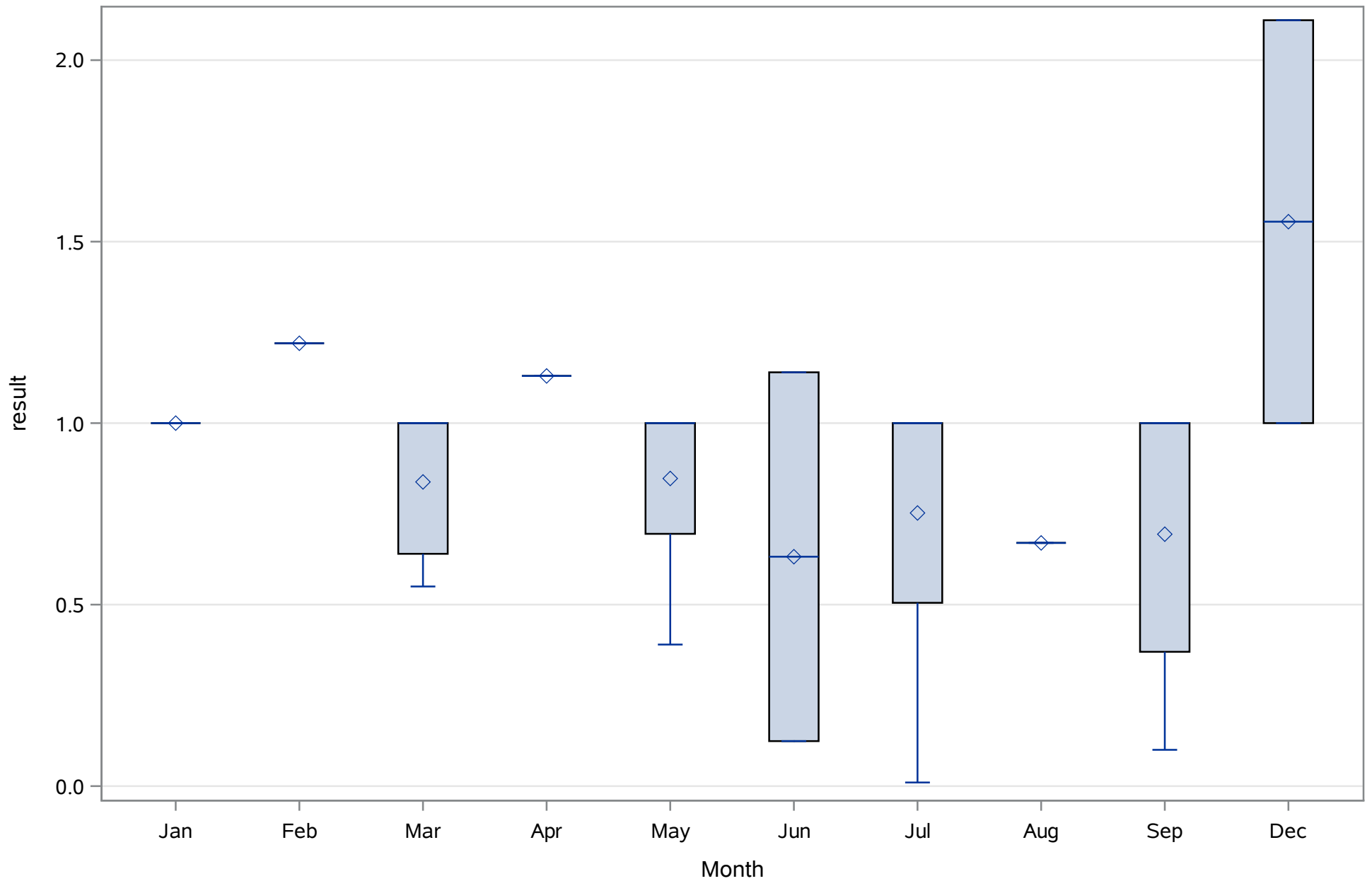
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll (Total) ug/L



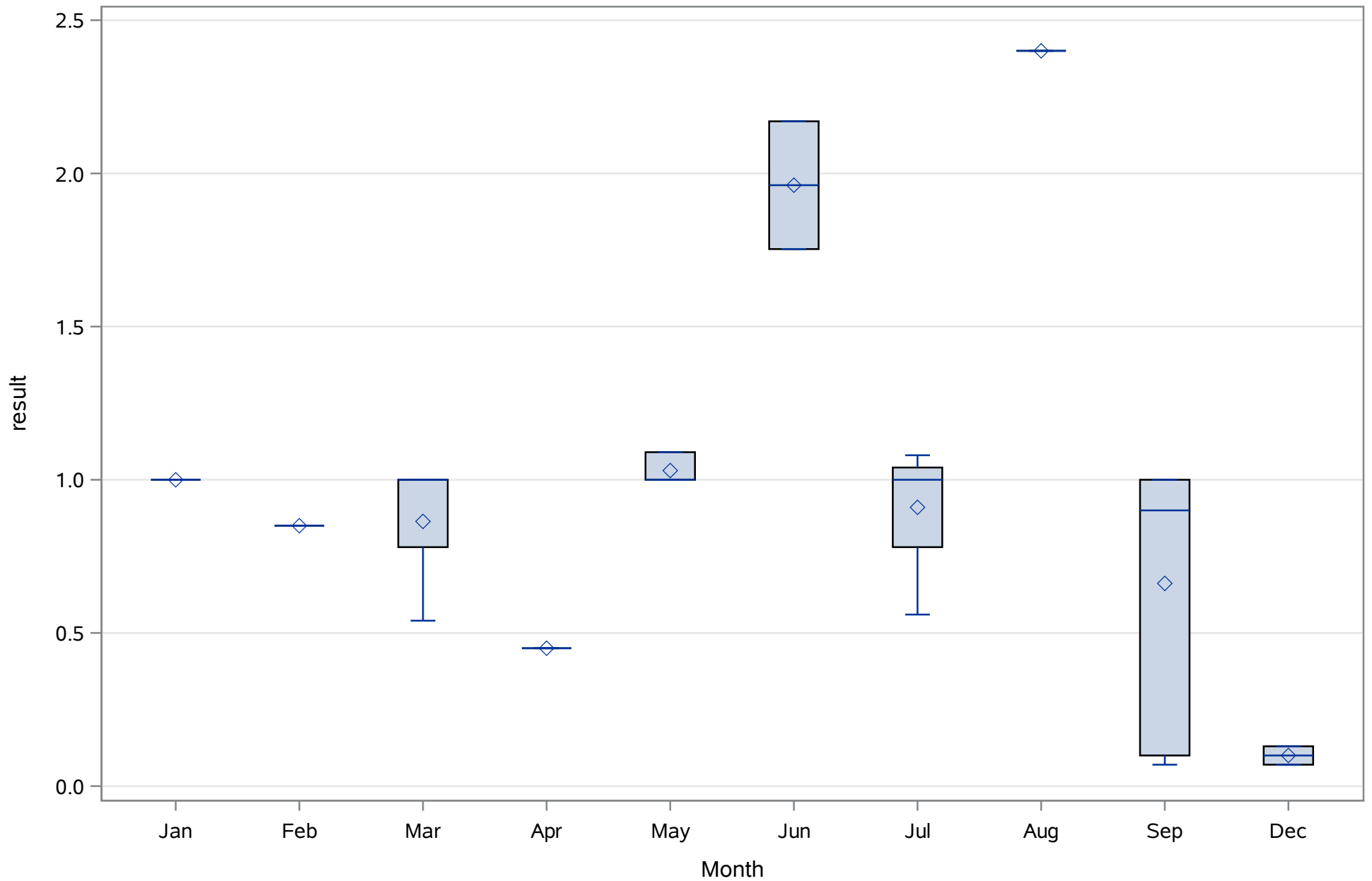
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll a (Total) ug/L



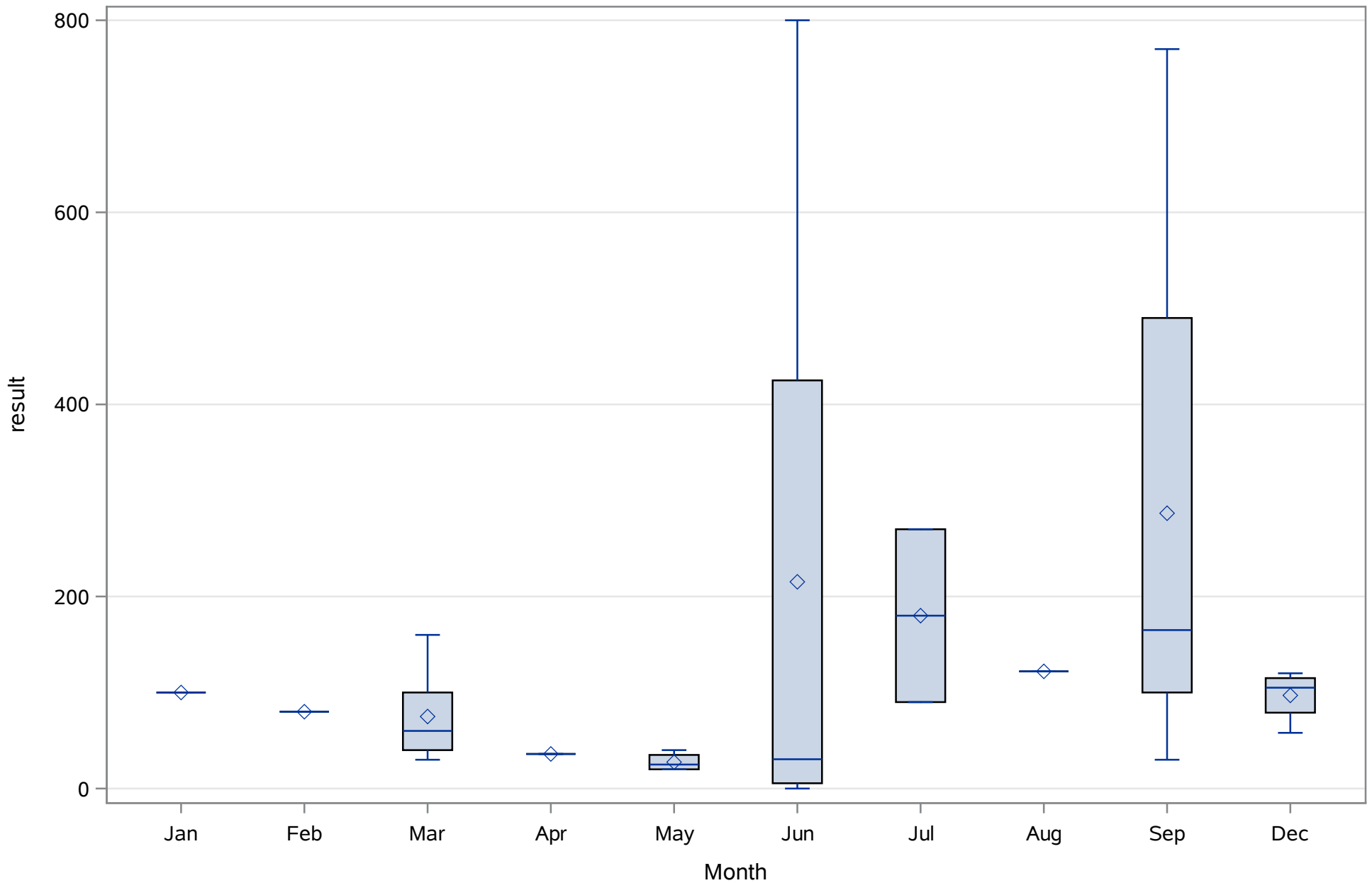
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll b (Total) ug/L



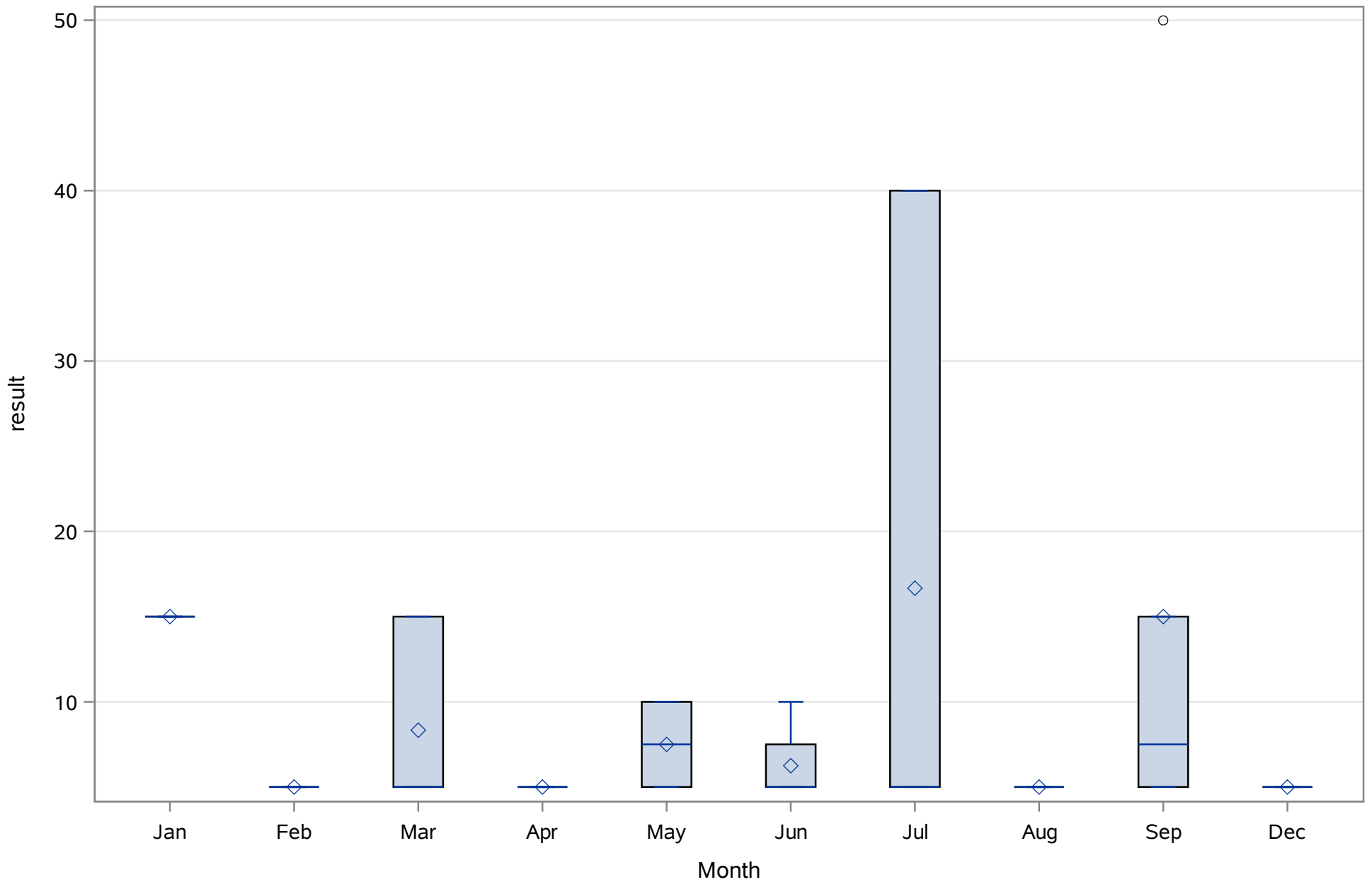
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Chlorophyll c (Total) ug/L



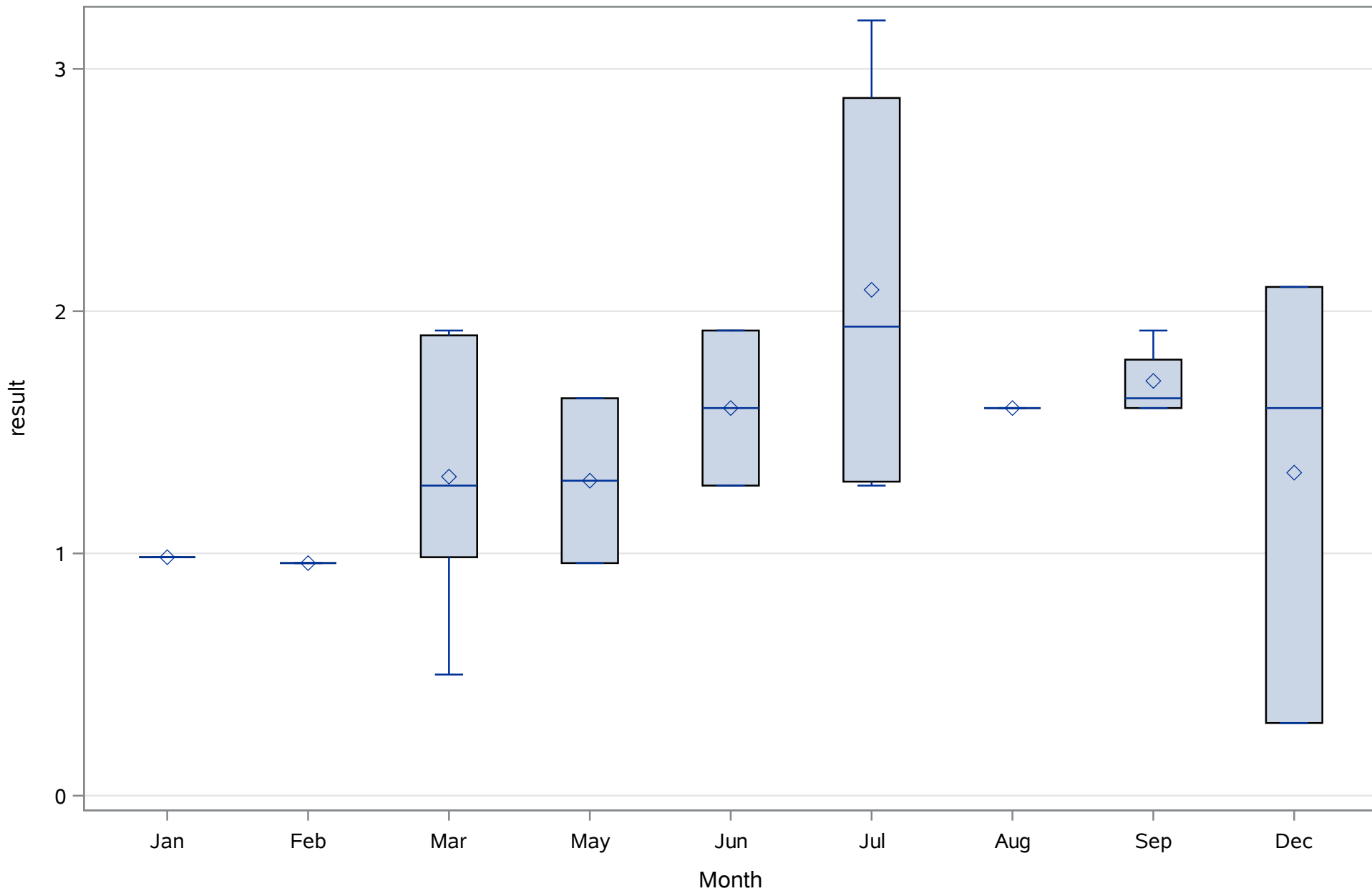
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Coliform Fecal (Total) cfu/100 mL



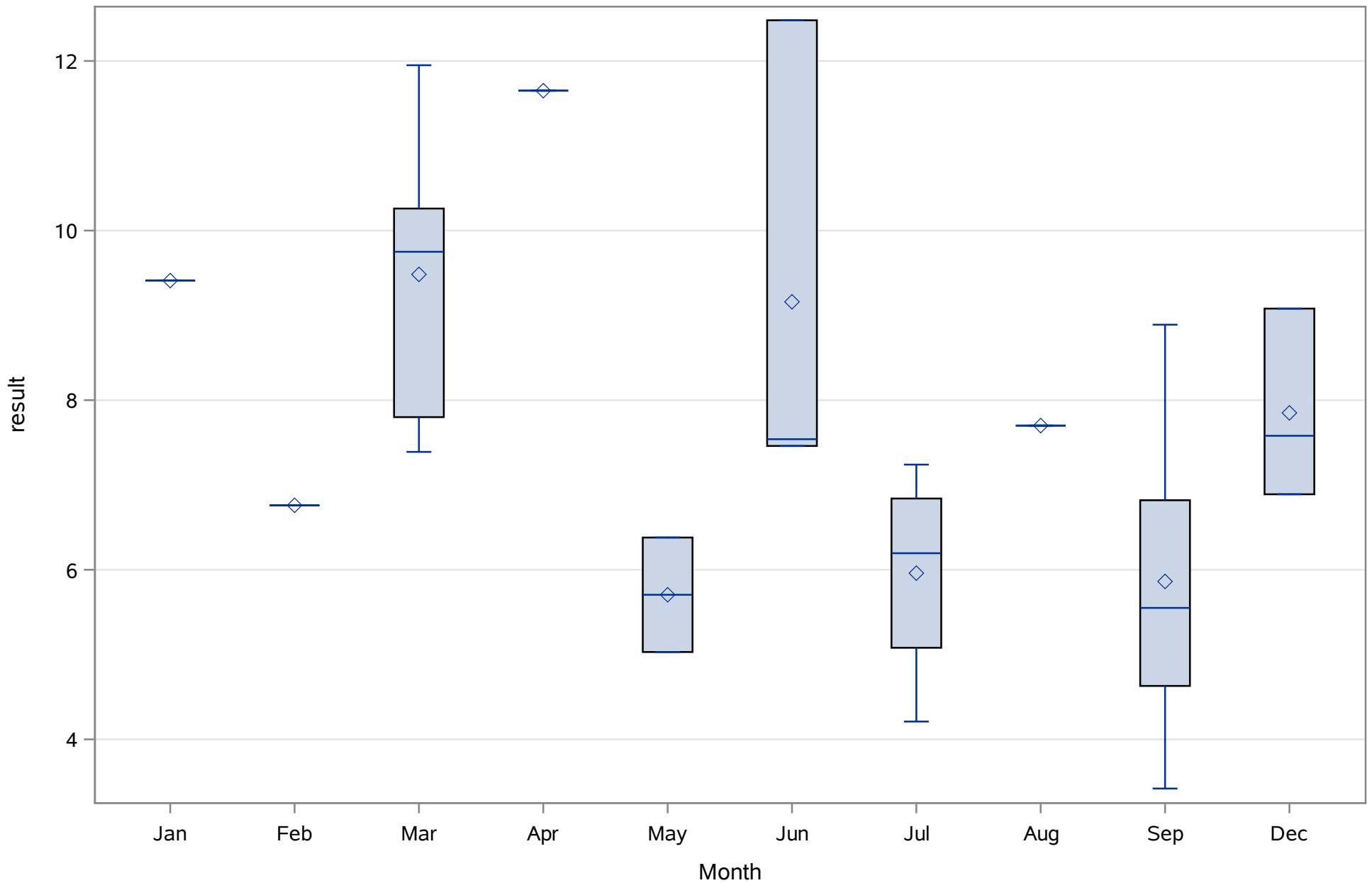
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Color (Dissolved) PCU



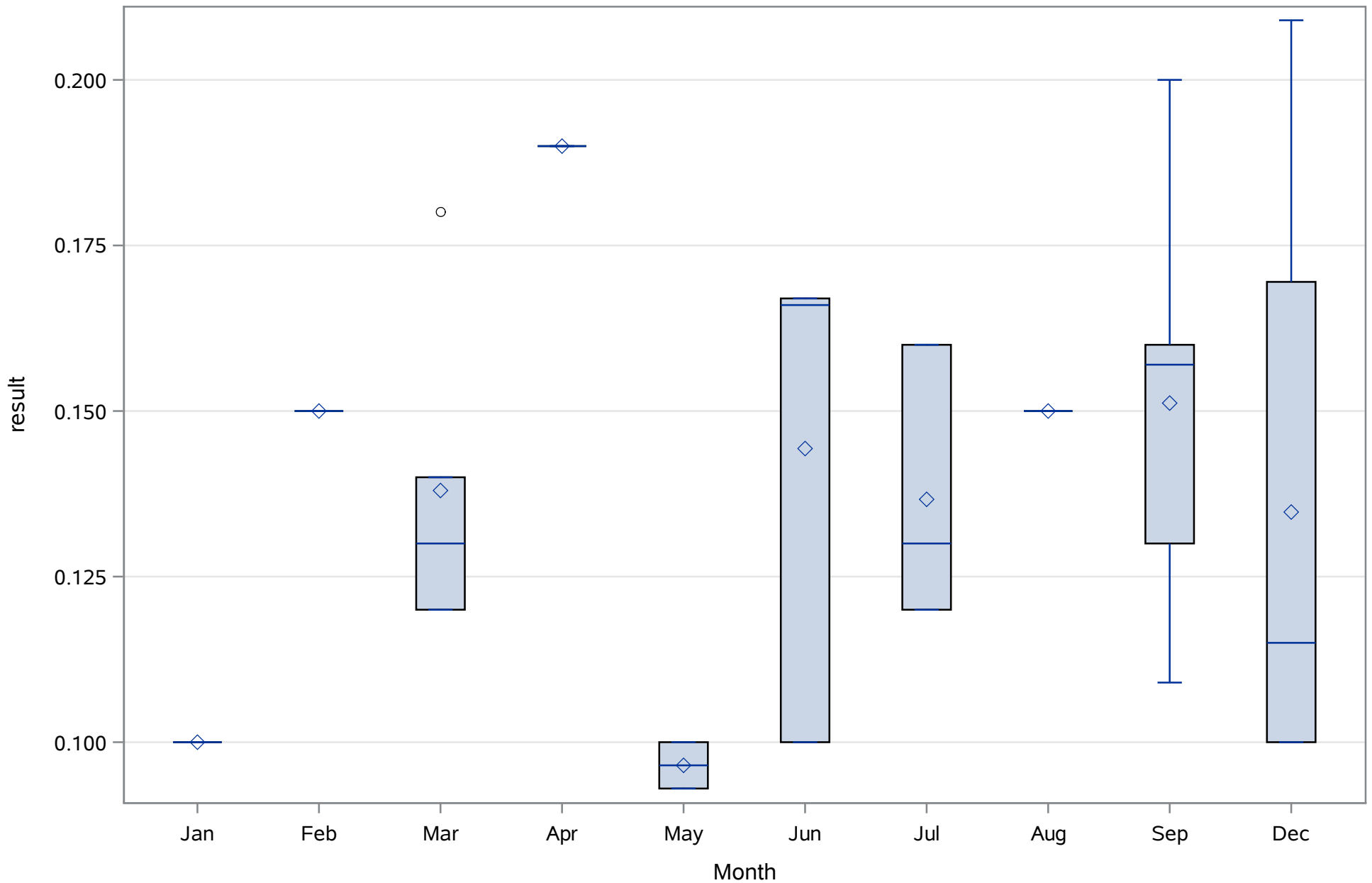
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Depth (Total) Ft.



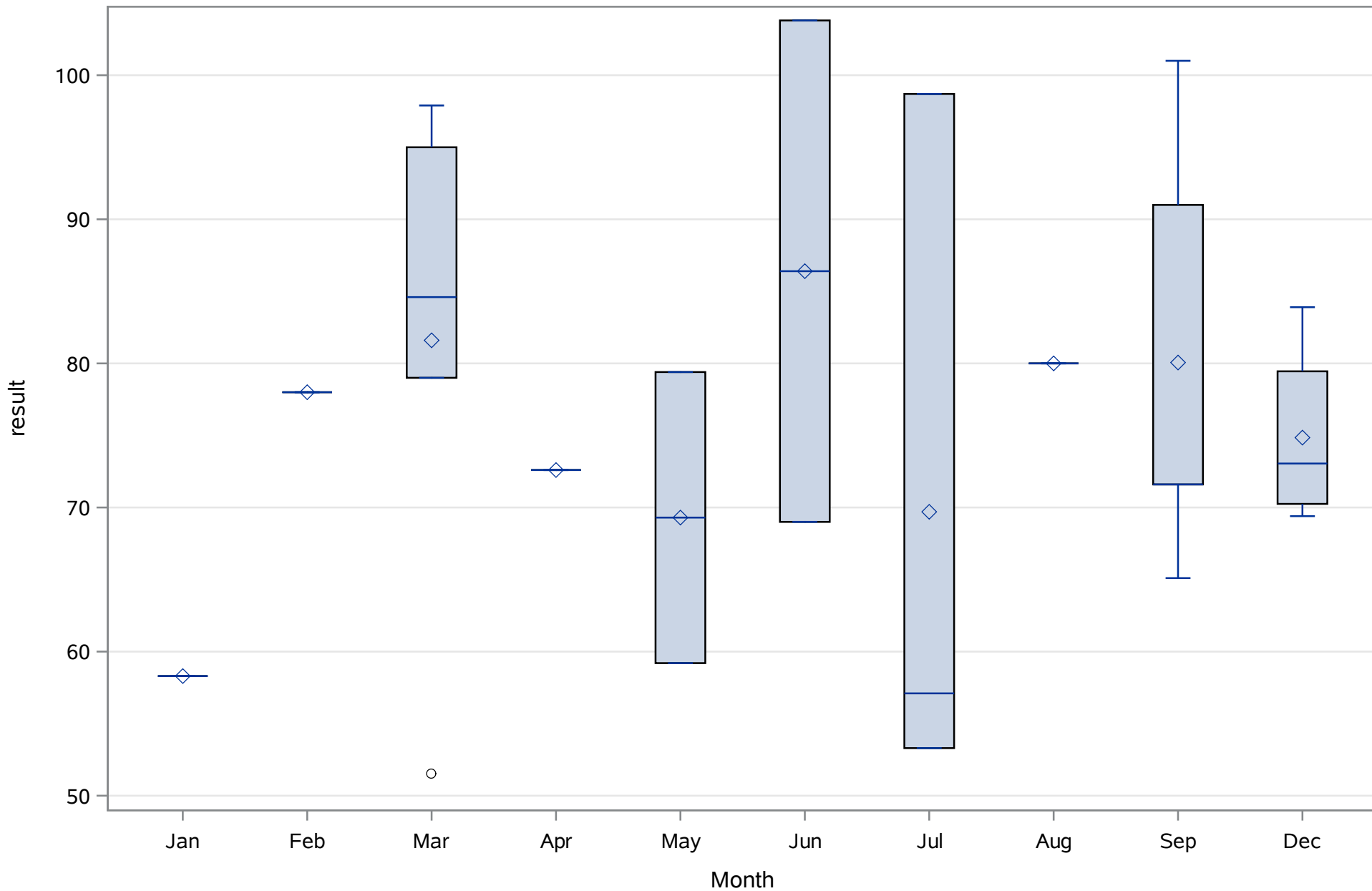
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Dissolved Oxygen (Total) mg/L



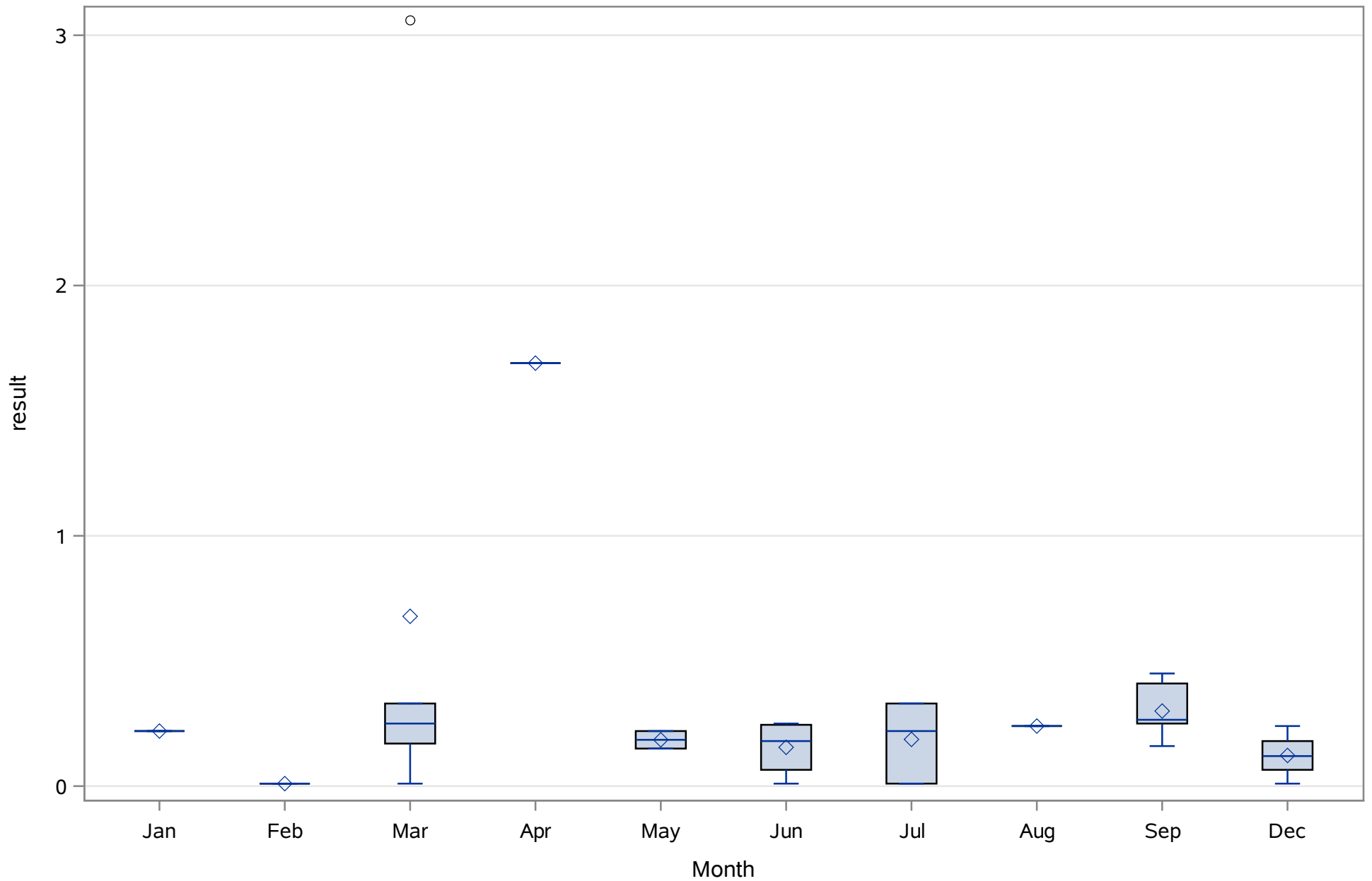
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Fluoride (Total) mg/L



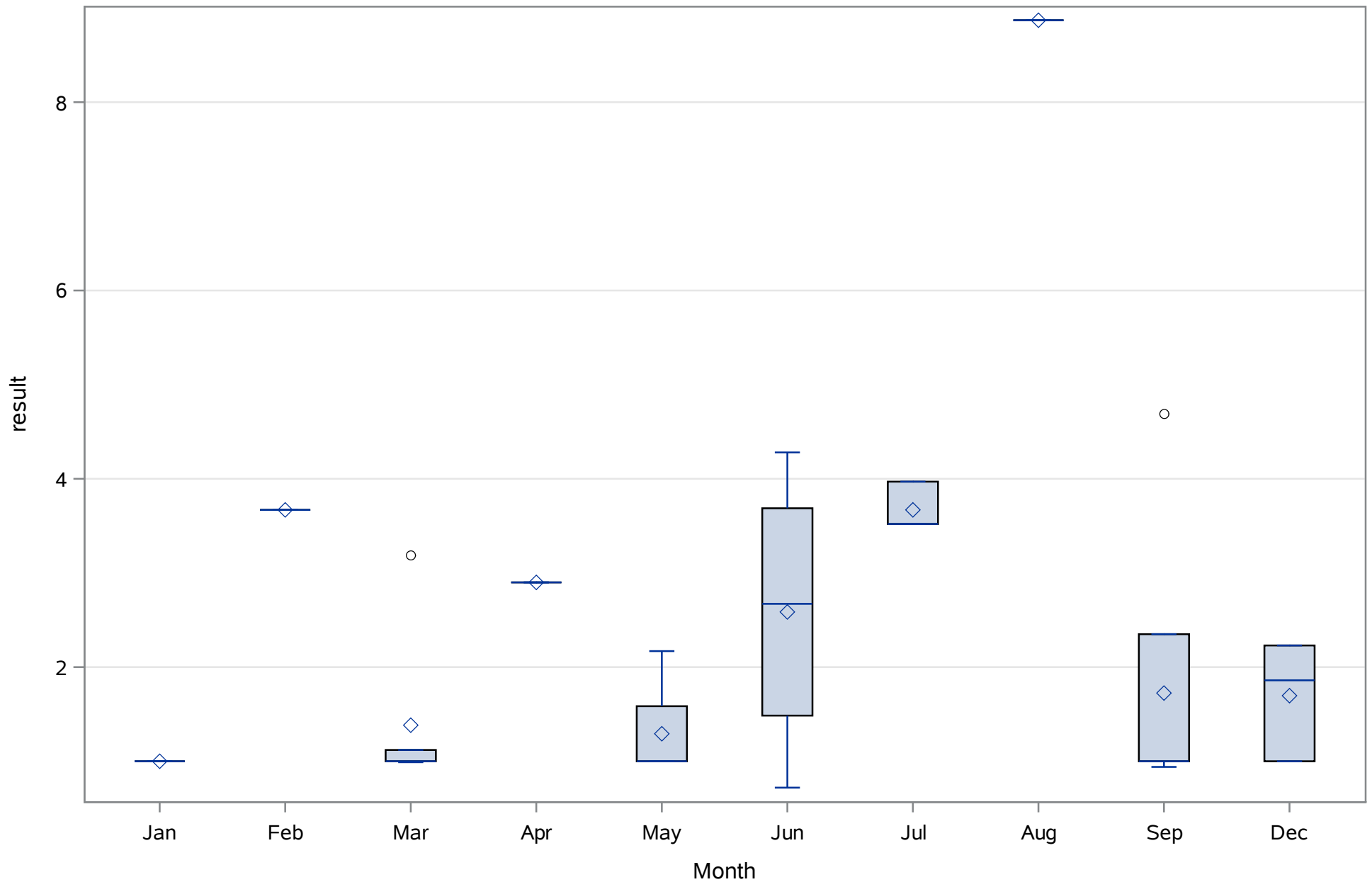
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Magnesium (Total) mg/L



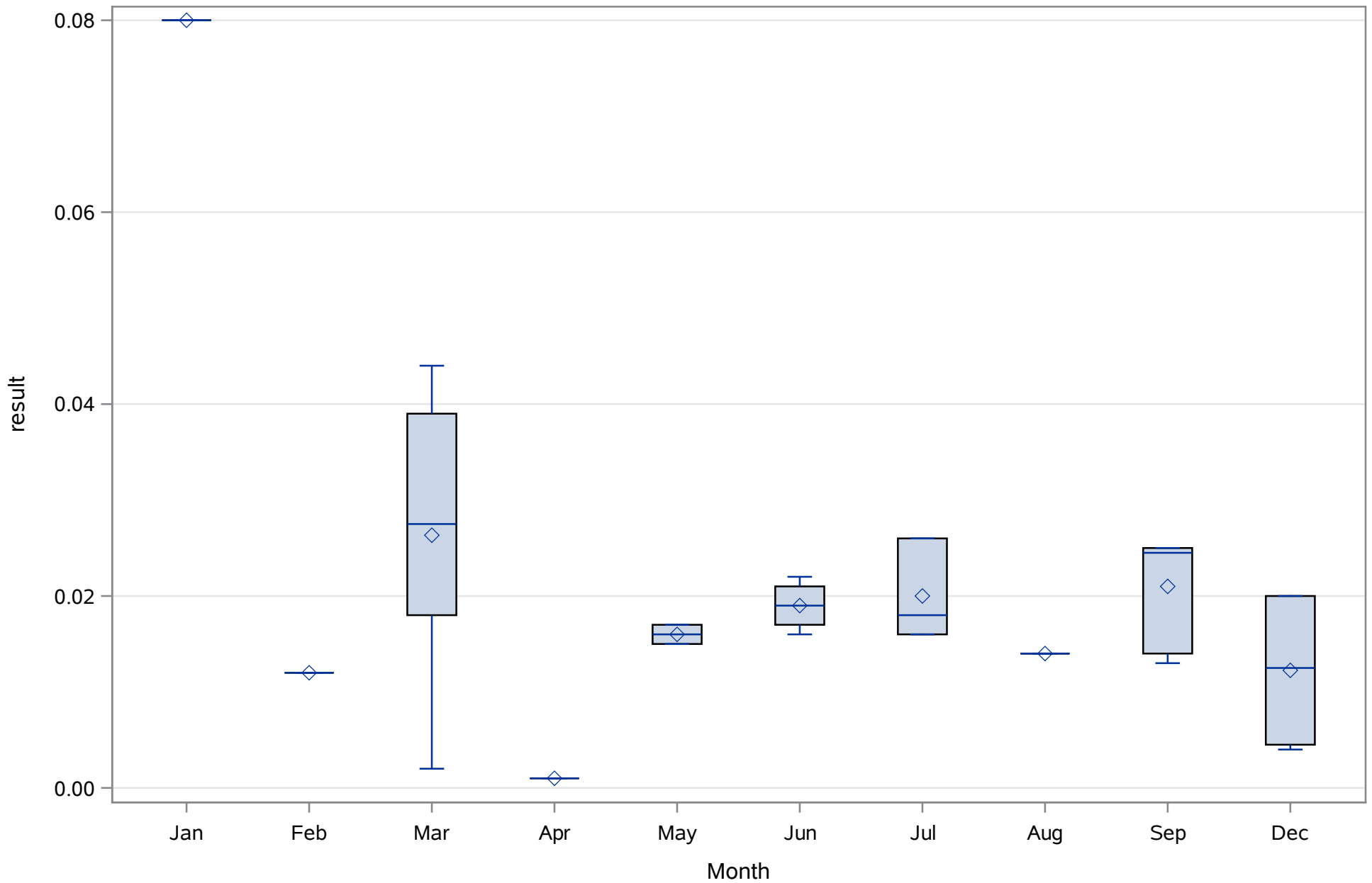
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Nitrogen- Total Kjeldahl (Total) mg/L



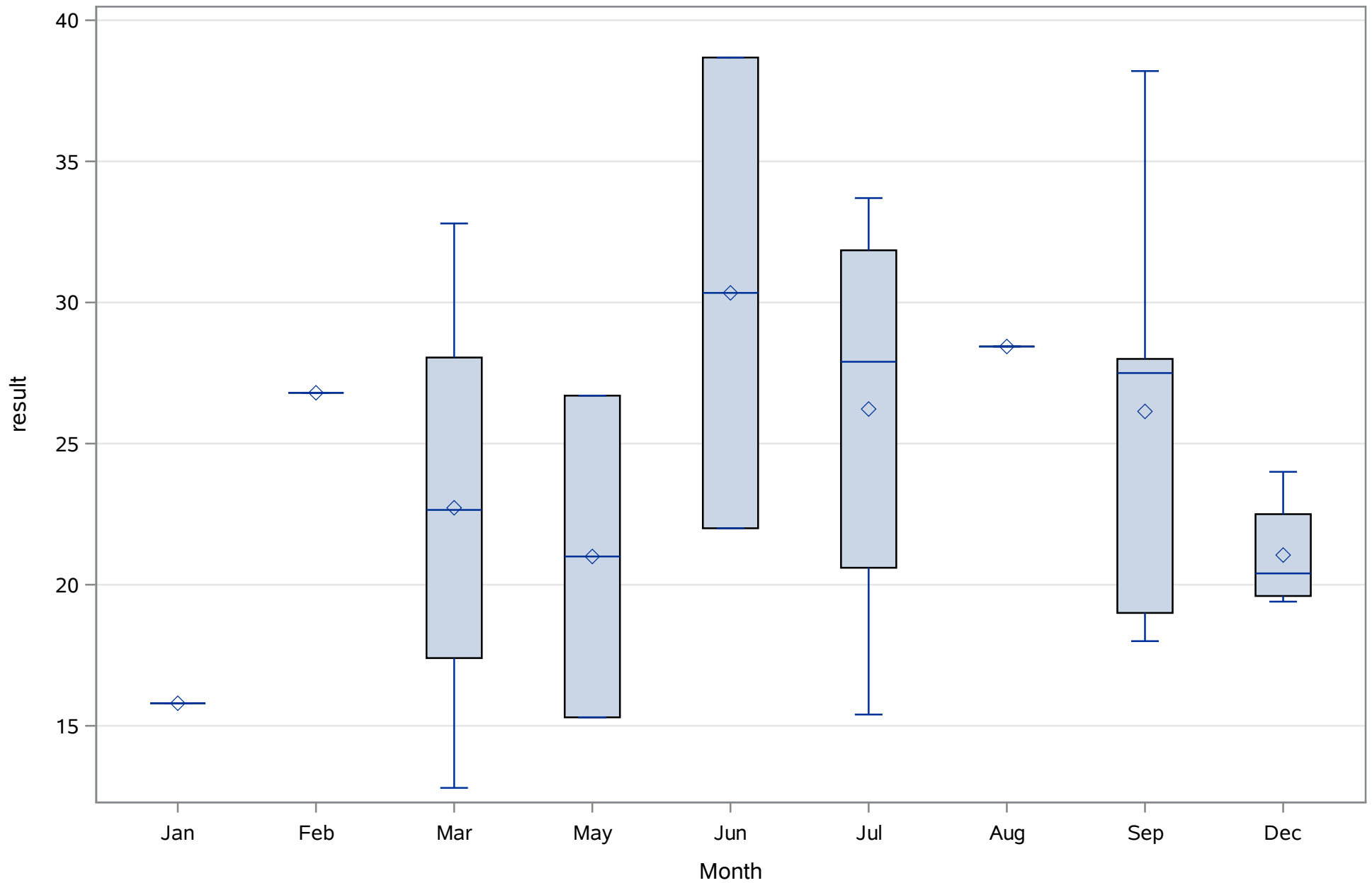
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Phaeophytin (Total) ug/L



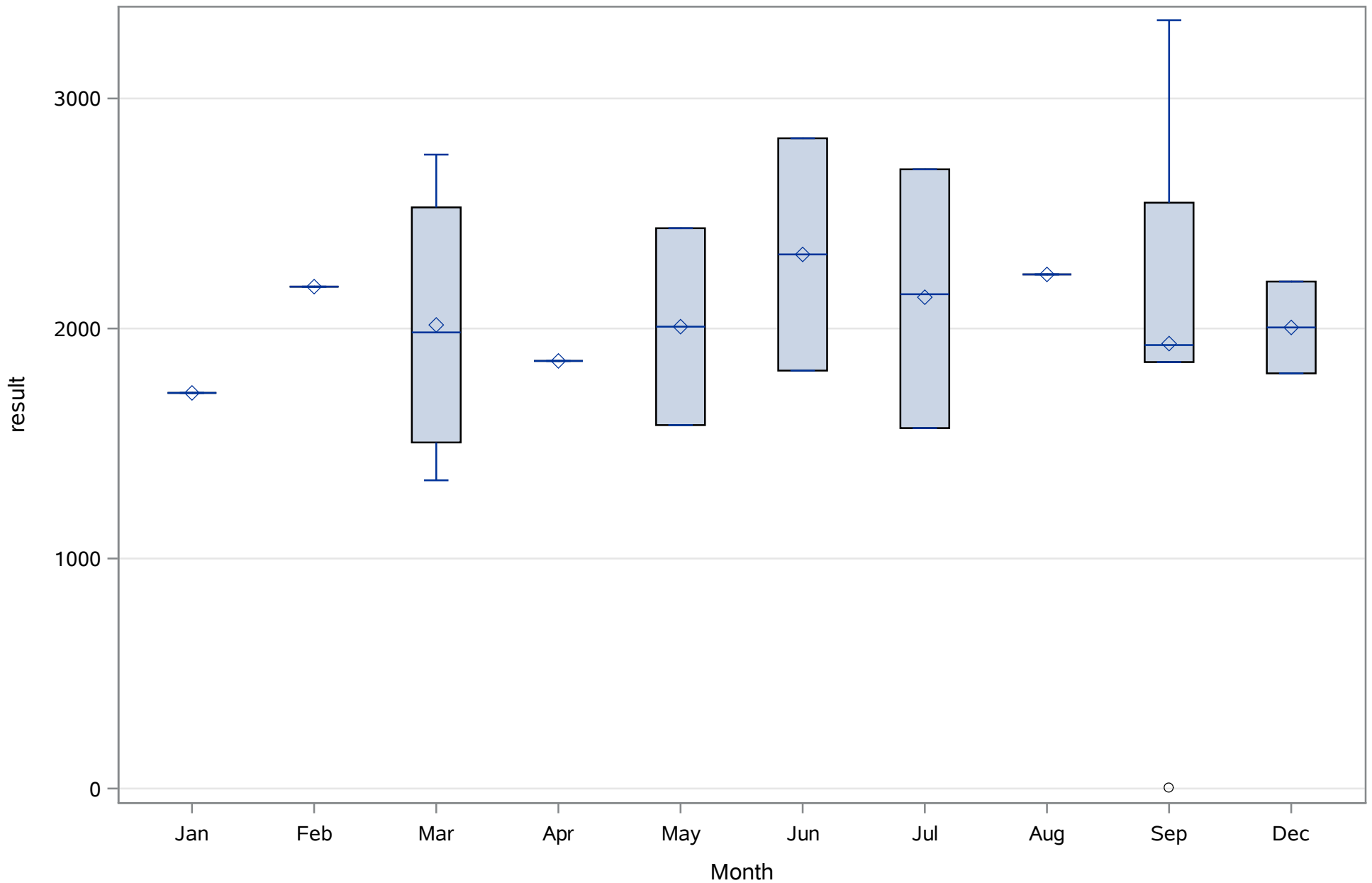
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Phosphorus- Total (Total) mg/L



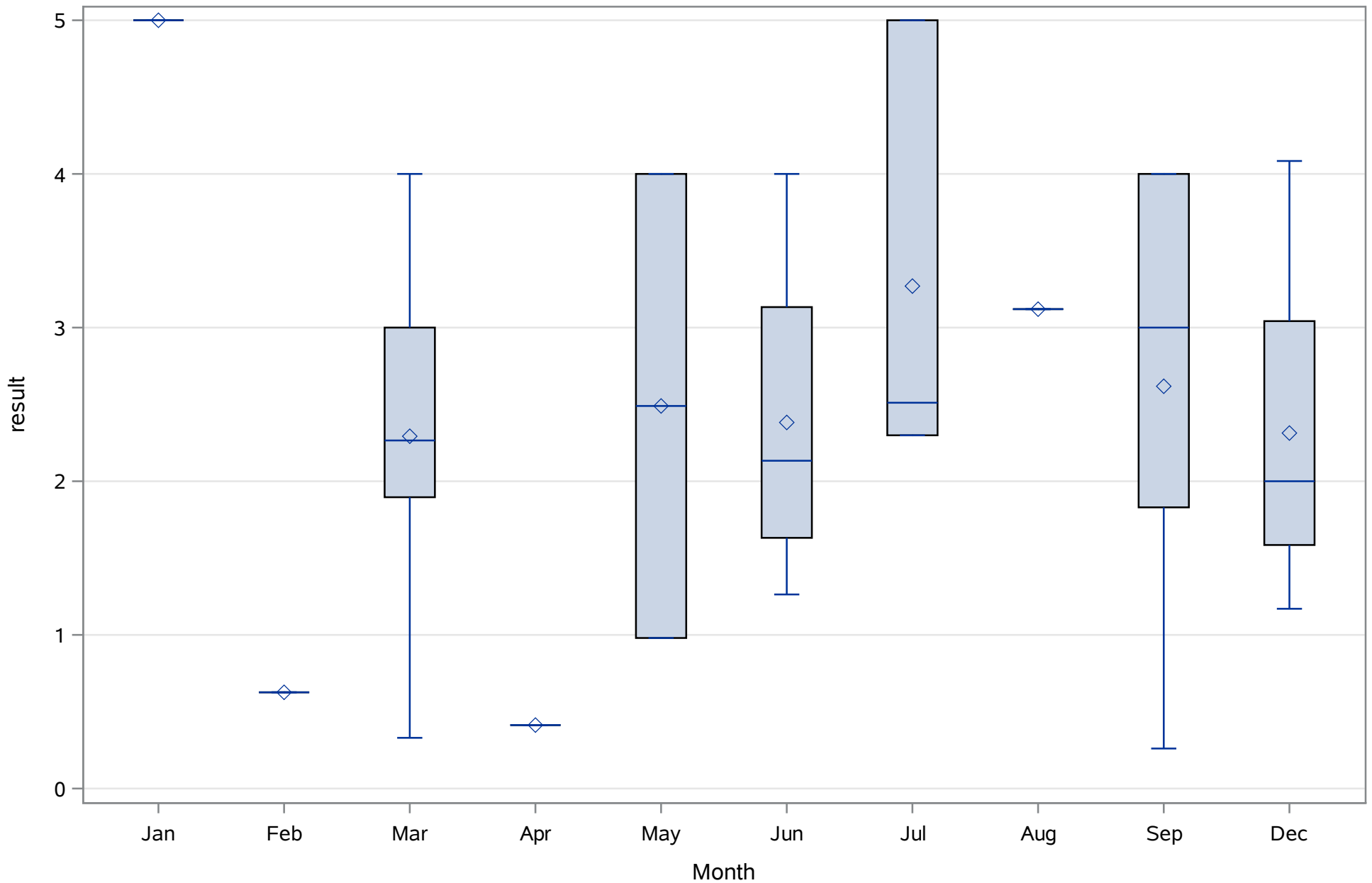
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Potassium (Total) mg/L



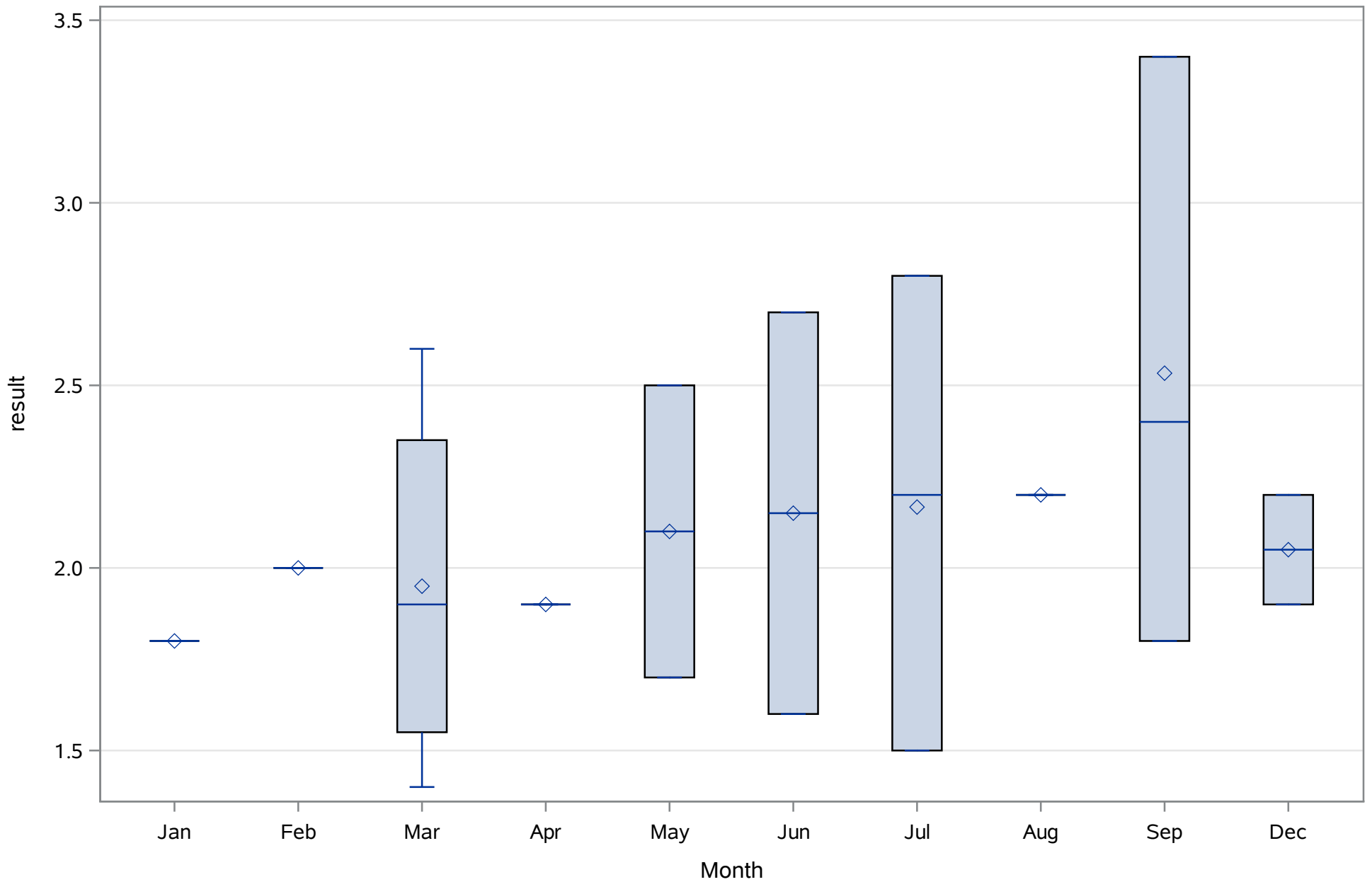
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Filterable (TDS) (Dissolved) mg/L



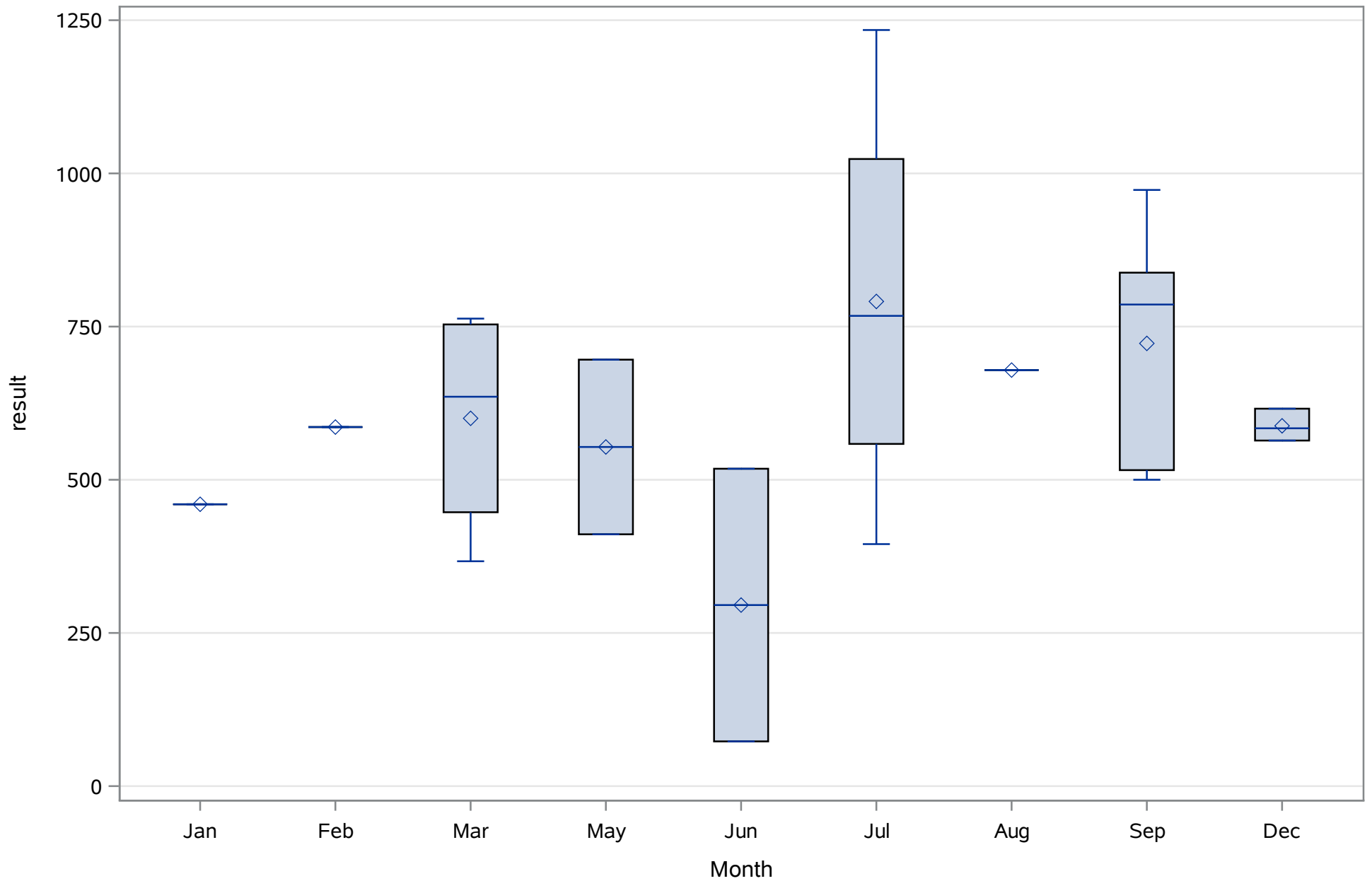
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Residues- Nonfilterable (TSS) (Total) mg/L



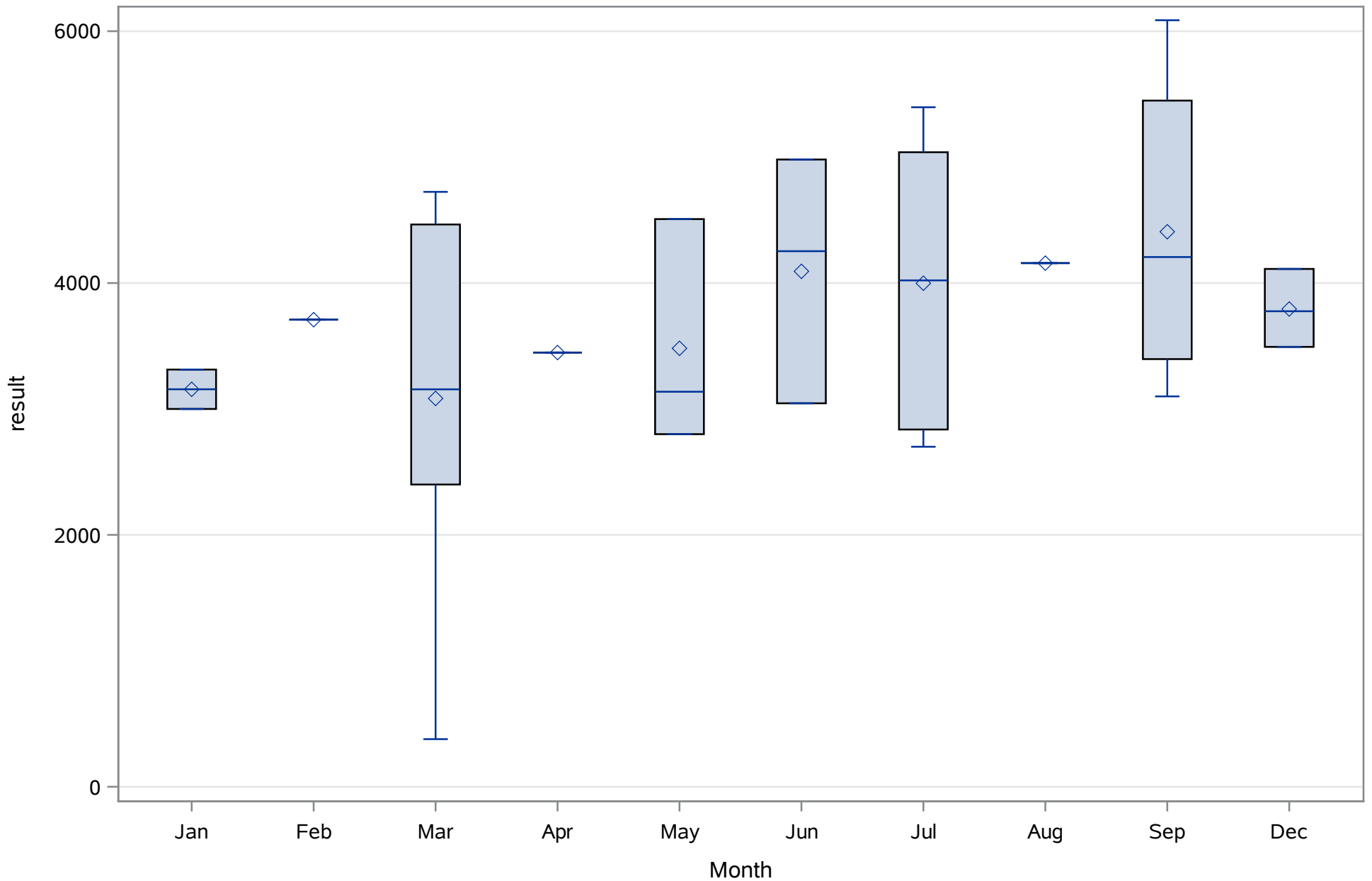
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Salinity (Total) ppt



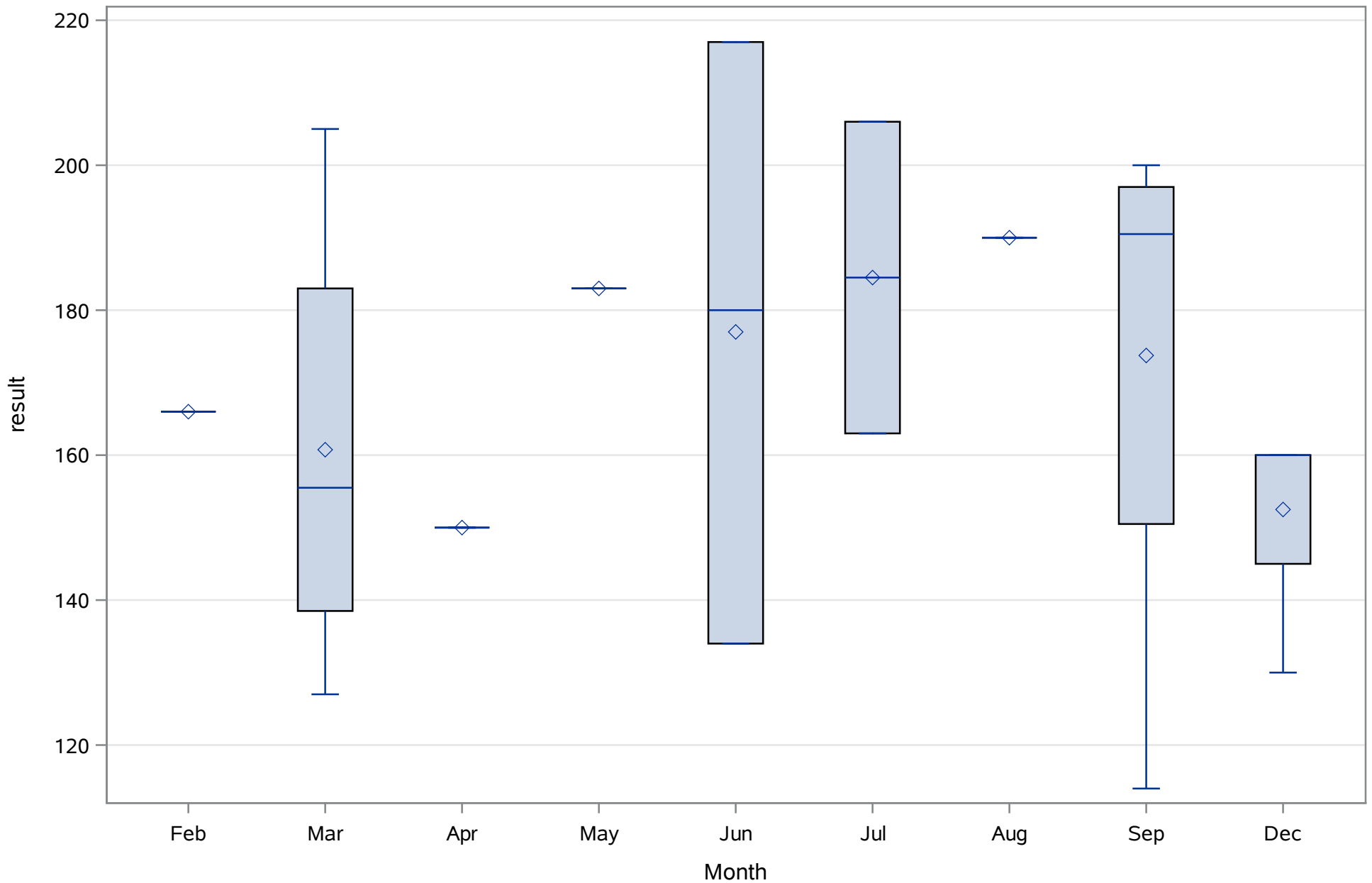
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Sodium (Total) mg/L



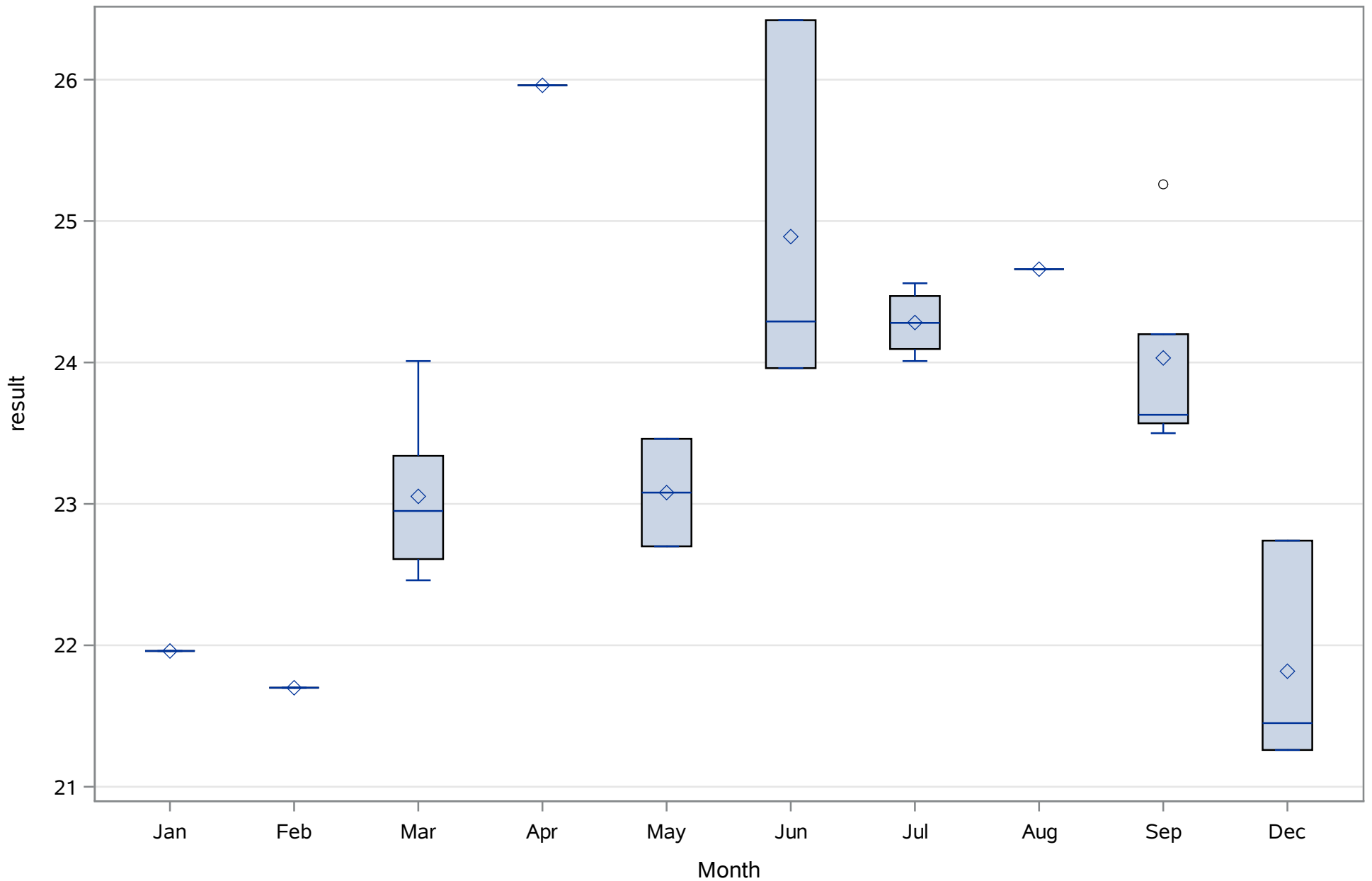
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Specific Conductance (Total) uS/cm



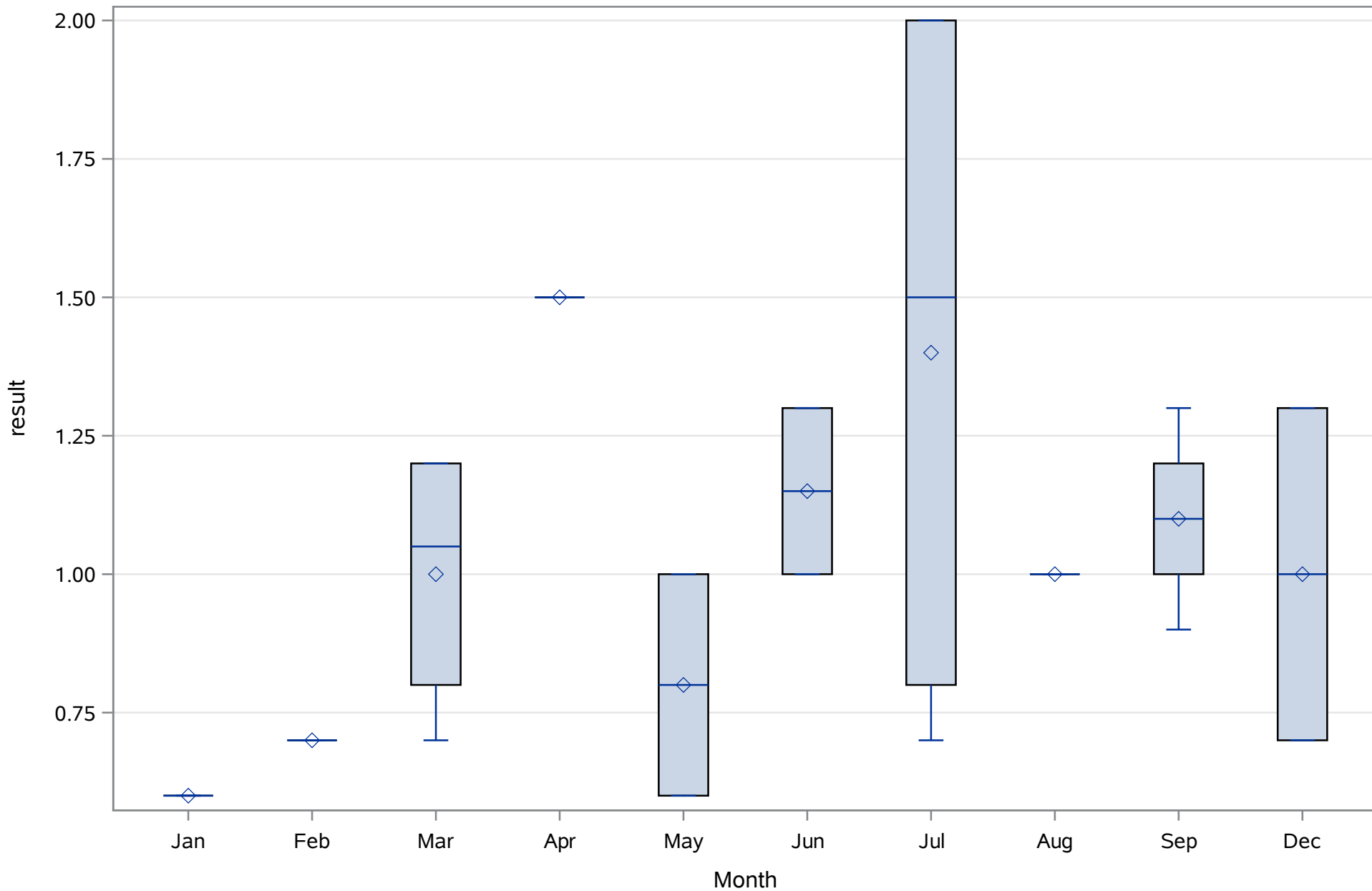
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Sulfate (Dissolved) mg/L



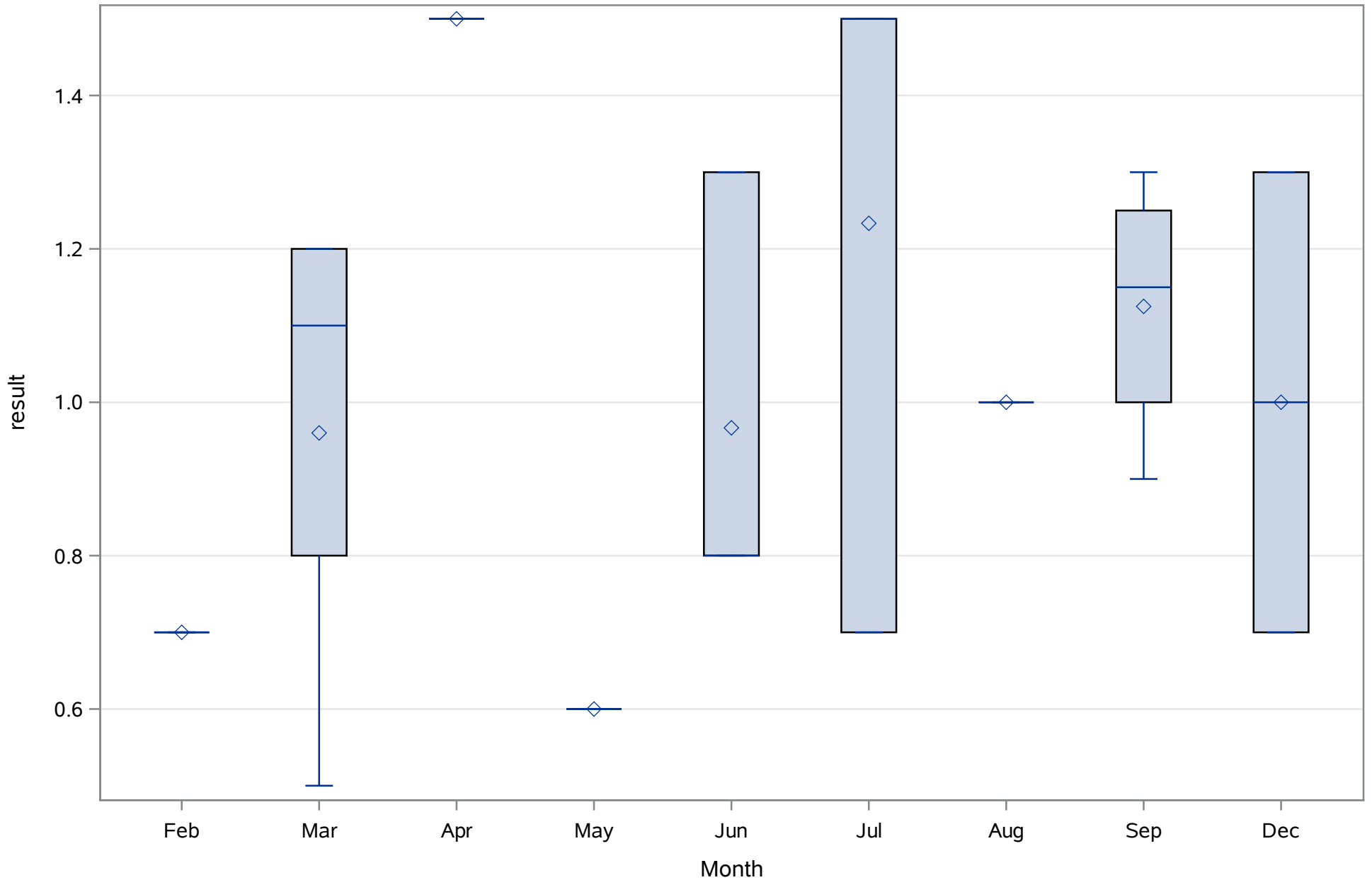
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Temperature (Total) Deg. C



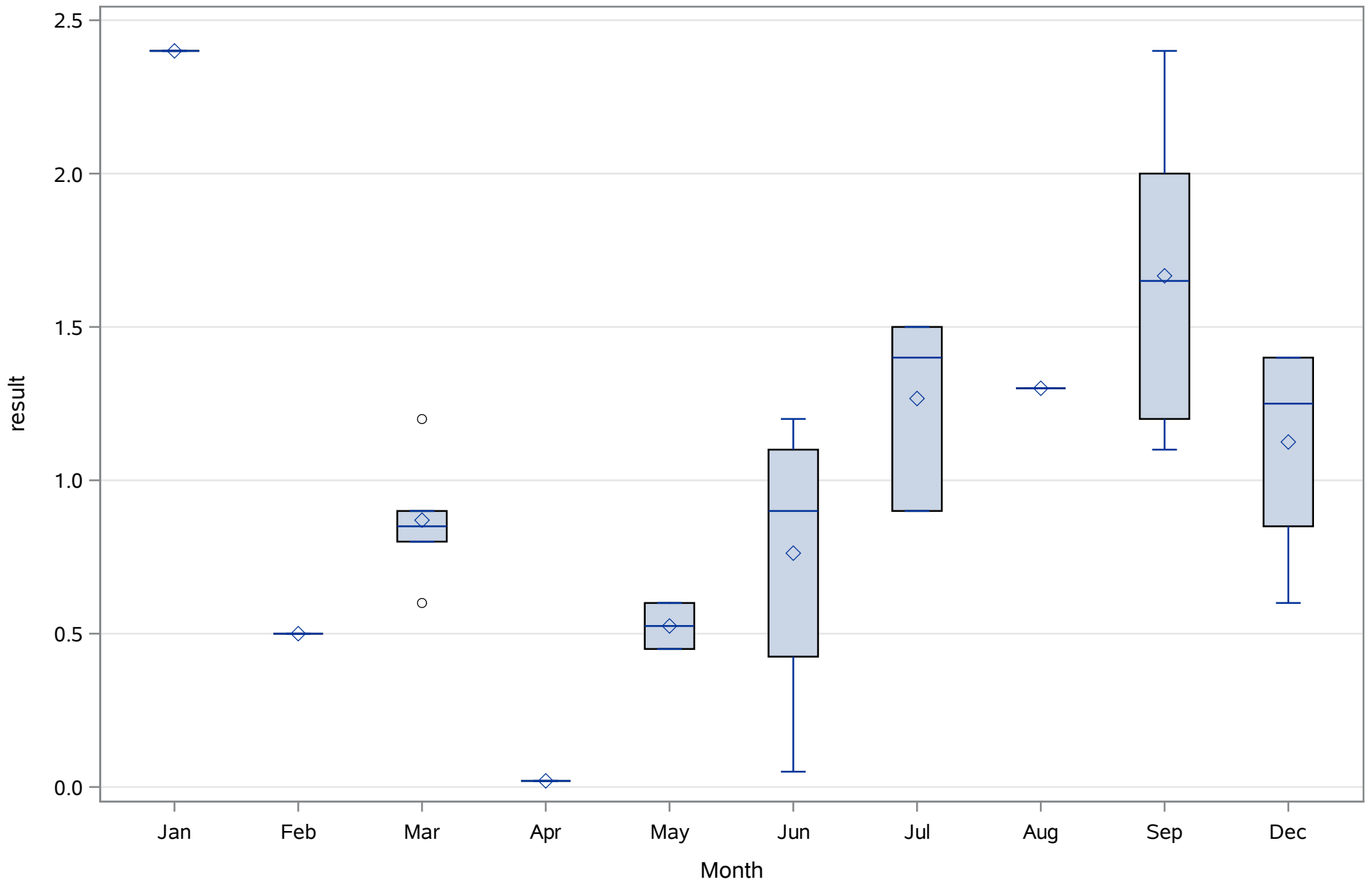
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Total depth at monitored location Meters



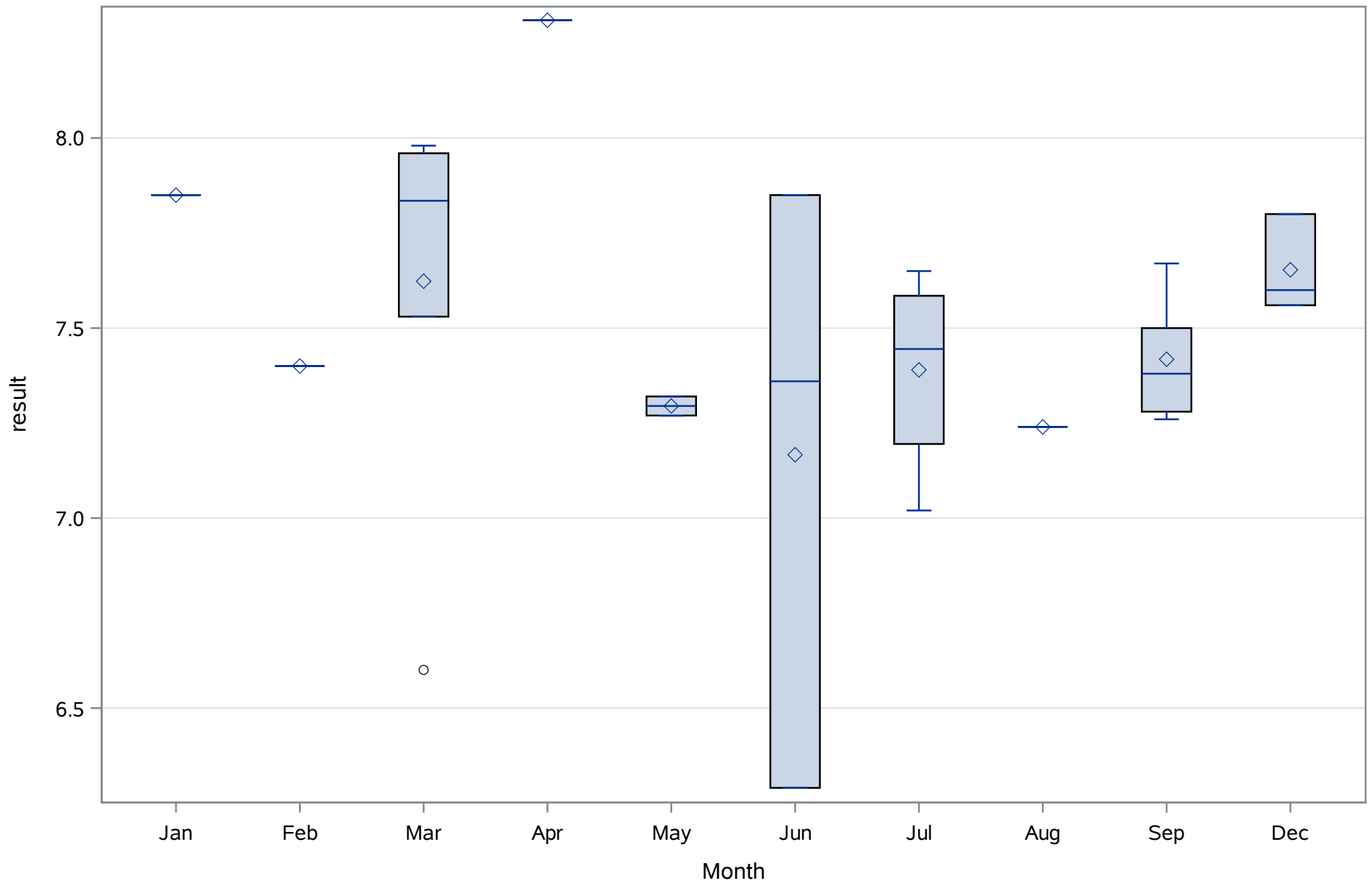
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Transparency (Total) Meters



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
Turbidity (Total) FTU



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River AB Gulf
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Inactive
Baird Chassahowitzka 5

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Coliform Fecal (Total)	cfu/100 mL	FEB1998	FEB1998	1	0.0%	0.0%	100.0%
Coliform Total (Total)	cfu/100 mL	OCT1997	OCT1997	2	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 1 WQ

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1999	MAY2000	5	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1999	AUG2000	3	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	OCT1999	JUL2000	7	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1999	SEP2000	10	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT1999	OCT2000	7	0.0%	0.0%	0.0%
Copper (Total)	ug/L	OCT1999	MAY2000	4	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	FEB2000	OCT2000	3	0.0%	0.0%	0.0%
Iron (Total)	ug/L	OCT1999	JUL2000	4	0.0%	0.0%	0.0%
Lead (Total)	ug/L	OCT1999	JUL2000	6	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	OCT1999	OCT2000	4	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	MAR2000	MAY2000	2	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JUL2000	AUG2000	2	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	OCT1999	AUG2000	3	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	OCT2000	OCT2000	1	0.0%	0.0%	100.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	NOV1999	FEB2000	3	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	MAY2000	MAY2000	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Total)	mg/L	OCT1999	AUG2000	6	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1999	AUG2000	6	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1999	SEP2000	4	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1999	OCT2000	11	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1999	OCT2000	7	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	OCT1999	SEP2000	6	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 3 WQ

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	JUN2000	JUL2000	2	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	OCT1999	OCT2000	9	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1999	JUN2000	5	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT1999	OCT2000	5	0.0%	0.0%	0.0%
Copper (Total)	ug/L	OCT1999	OCT2000	10	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	JUL2000	OCT2000	2	0.0%	0.0%	0.0%
Iron (Total)	ug/L	OCT1999	SEP2000	8	0.0%	0.0%	0.0%
Lead (Total)	ug/L	OCT1999	SEP2000	6	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	OCT1999	FEB2000	4	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	DEC1999	MAY2000	3	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JUL2000	JUL2000	1	0.0%	0.0%	100.0%
Nitrite (N) (Total)	mg/L	OCT1999	MAY2000	4	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JUL2000	SEP2000	2	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	DEC1999	FEB2000	3	0.0%	0.0%	0.0%
Orthophosphate (P) (Total)	mg/L	OCT1999	SEP2000	6	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1999	OCT2000	12	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1999	SEP2000	7	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1999	SEP2000	4	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1999	SEP2000	7	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Chlorophyll (Total)	ug/L	JUN1997	AUG2014	206	4.9%	1.9%	3.4%
Chlorophyll a (Total)	ug/L	JAN2007	AUG2014	91	8.8%	0.0%	2.2%
Color (Total)	PCU	MAY1999	AUG2014	184	5.4%	1.1%	3.3%
Depth (Total)	Meters	JUN1997	AUG2014	207	0.0%	1.4%	0.0%
Dissolved Oxygen (Total)	mg/L	JUN1997	AUG2014	205	1.0%	2.0%	0.5%
Light, Attenuation Coefficient	Kd/m	MAY1999	AUG2014	182	3.8%	1.1%	1.6%
Nitrogen- Total (Total)	ug/L	JUN1997	JUL2014	206	1.5%	1.5%	1.5%
Phosphorus- Total (Total)	ug/L	JUN1997	JUL2014	206	1.0%	1.9%	0.5%
Salinity (Total)	ppth	JUL1997	AUG2014	207	0.0%	1.4%	0.5%
Secchi-vertical (Total)	Meters	JUL1997	AUG2014	170	0.6%	0.6%	1.2%
Temperature (Total)	Deg. C	JUN1997	AUG2014	206	0.0%	1.9%	0.0%
pH (Total)	SU	DEC2000	AUG2014	142	1.4%	1.4%	0.7%

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	206	Sum Weights	206
Mean	4.8142233	Sum Observations	991.73
Std Deviation	3.8087668	Variance	14.5067045
Skewness	2.91950277	Kurtosis	10.4344809
Uncorrected SS	7748.2841	Corrected SS	2973.87443
Coeff Variation	79.114876	Std Error Mean	0.26536936

Basic Statistical Measures			
Location		Variability	
Mean	4.814223	Std Deviation	3.80877
Median	3.880000	Variance	14.50670
Mode	2.500000	Range	24.79000
		Interquartile Range	2.90000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.14159	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.89
99%	21.79
95%	11.08
90%	8.55
75% Q3	5.40
50% Median	3.88
25% Q1	2.50
10%	1.89
5%	1.52

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1.24
0% Min	1.10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.10	43	18.70	13
1.15	128	20.14	101
1.24	153	21.79	87
1.33	140	23.00	33
1.33	120	25.89	133

Chassahowitzka River - Fixed Station

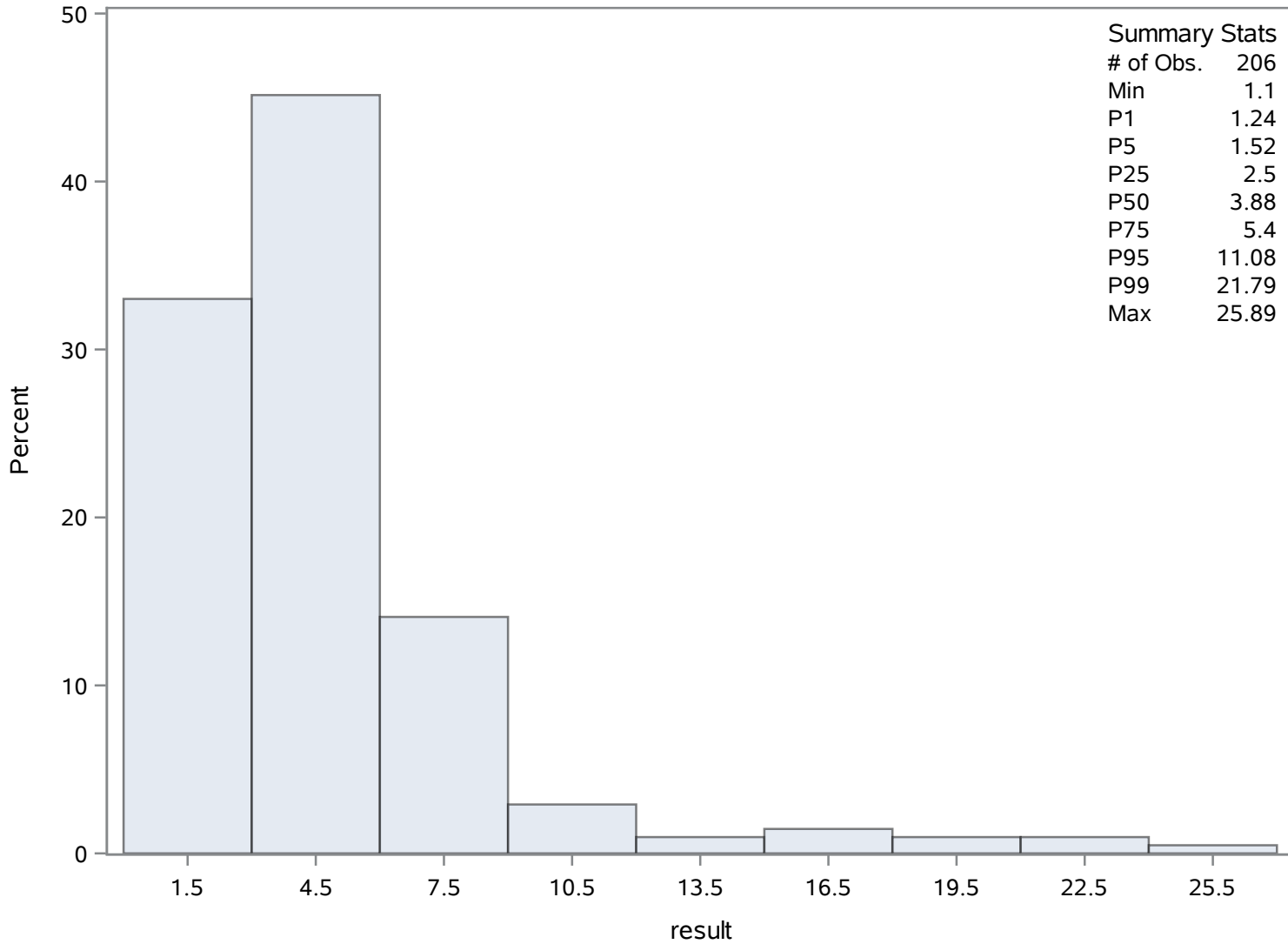
Source: Inactive

Chassahowitzka Citrus 3

Chlorophyll (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	91	Sum Weights	91
Mean	3.46527473	Sum Observations	315.34
Std Deviation	3.21081967	Variance	10.309363
Skewness	3.84053198	Kurtosis	19.9895993
Uncorrected SS	2020.5824	Corrected SS	927.842668
Coeff Variation	92.6570021	Std Error Mean	0.33658536

Basic Statistical Measures			
Location		Variability	
Mean	3.465275	Std Deviation	3.21082
Median	2.790000	Variance	10.30936
Mode	1.230000	Range	23.57000
		Interquartile Range	2.34000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.29538	Pr > t 	<.0001
Sign	M	45.5	Pr >= M 	<.0001
Signed Rank	S	2093	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.02
99%	24.02
95%	8.49
90%	5.36
75% Q3	4.02
50% Median	2.79
25% Q1	1.68
10%	1.12
5%	0.89

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.45
0% Min	0.45

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.45	219	8.49	212
0.67	279	9.27	237
0.78	255	12.18	236
0.78	244	15.19	271
0.89	292	24.02	224

Chassahowitzka River - Fixed Station

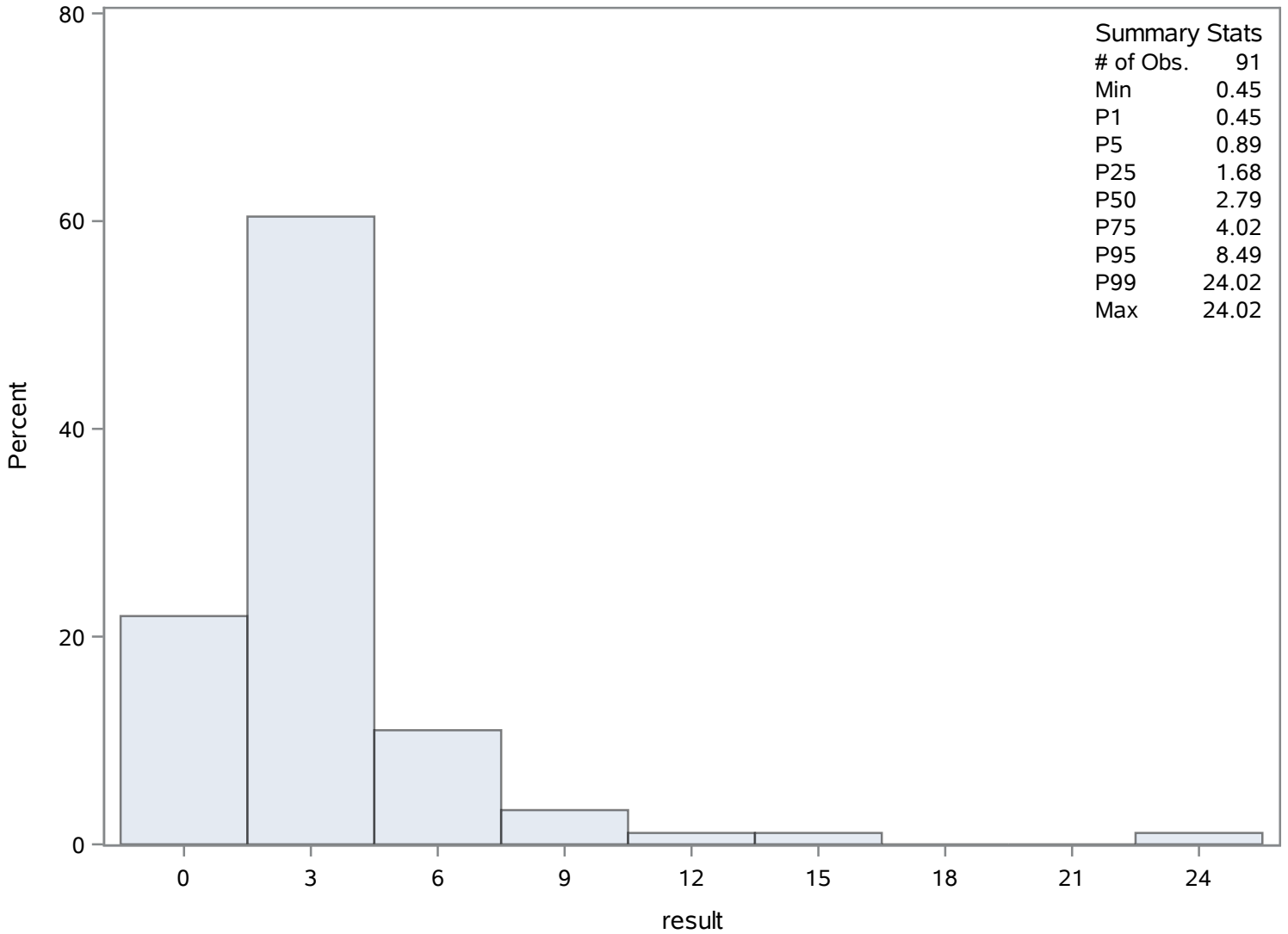
Source: Inactive

Chassahowitzka Citrus 3

Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Color (Total) PCU

The UNIVARIATE Procedure
Variable: result

Moments			
N	184	Sum Weights	184
Mean	33.0923913	Sum Observations	6089
Std Deviation	23.4978698	Variance	552.149887
Skewness	2.84595224	Kurtosis	9.96045174
Uncorrected SS	302543	Corrected SS	101043.429
Coeff Variation	71.0068657	Std Error Mean	1.73228595

Basic Statistical Measures			
Location		Variability	
Mean	33.09239	Std Deviation	23.49787
Median	27.00000	Variance	552.14989
Mode	15.00000	Range	147.00000
		Interquartile Range	19.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.10331	Pr > t 	<.0001
Sign	M	92	Pr >= M 	<.0001
Signed Rank	S	8510	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	157
99%	145
95%	73
90%	53
75% Q3	38
50% Median	27
25% Q1	19
10%	15
5%	13
1%	11
0% Min	10

Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3

Color (Total) PCU

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	330	118	446
11	438	120	409
11	437	139	445
11	328	145	324
11	318	157	362

Chassahowitzka River - Fixed Station

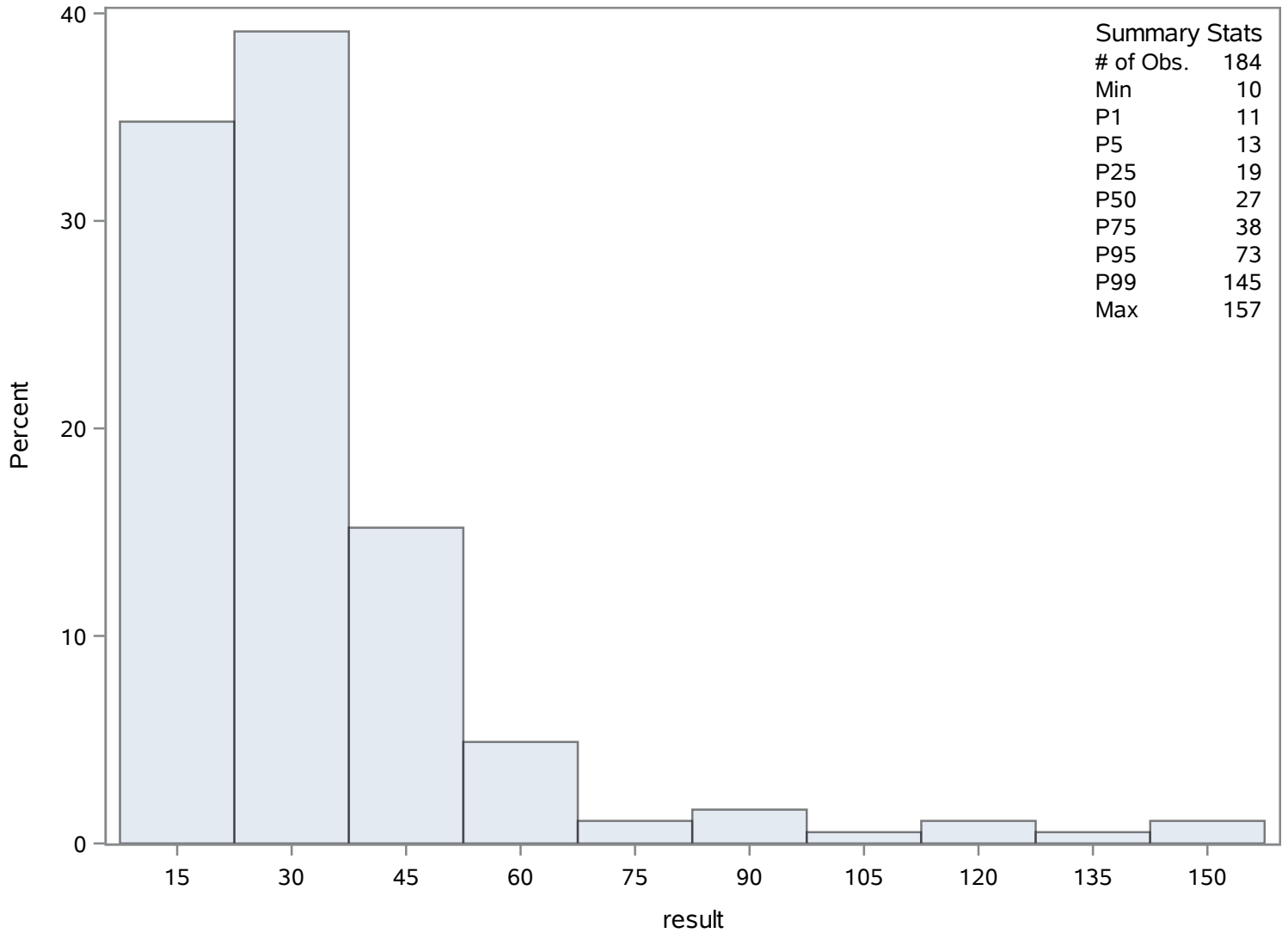
Source: Inactive

Chassahowitzka Citrus 3

Color (Total) PCU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	2.64057971	Sum Observations	546.6
Std Deviation	0.80862802	Variance	0.65387927
Skewness	-0.0955787	Kurtosis	-0.3194296
Uncorrected SS	1578.04	Corrected SS	134.69913
Coeff Variation	30.6231248	Std Error Mean	0.05620353

Basic Statistical Measures			
Location		Variability	
Mean	2.640580	Std Deviation	0.80863
Median	2.700000	Variance	0.65388
Mode	2.800000	Range	4.30000
		Interquartile Range	1.10000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	46.98245	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.0
99%	4.4
95%	4.0
90%	3.6
75% Q3	3.2
50% Median	2.7
25% Q1	2.1
10%	1.5
5%	1.2
1%	0.8
0% Min	0.7

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Depth (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	613	4.1	612
0.8	671	4.2	544
0.8	659	4.4	541
0.9	502	4.5	549
1.1	669	5.0	555

Chassahowitzka River - Fixed Station

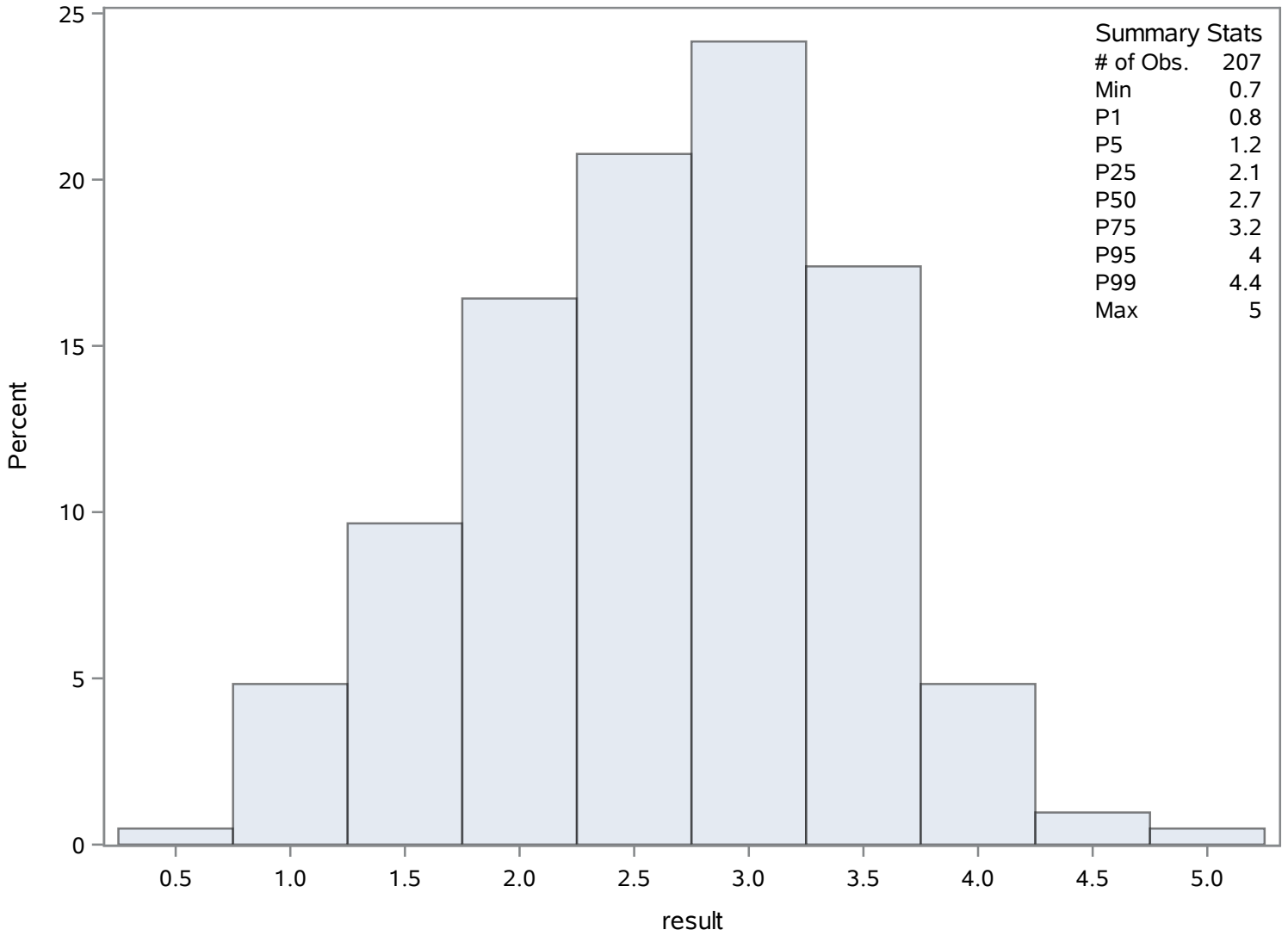
Source: Inactive

Chassahowitzka Citrus 3

Depth (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	205	Sum Weights	205
Mean	6.38814634	Sum Observations	1309.57
Std Deviation	1.56402932	Variance	2.44618772
Skewness	0.58959514	Kurtosis	1.2527144
Uncorrected SS	8864.7471	Corrected SS	499.022296
Coeff Variation	24.4833045	Std Error Mean	0.10923655

Basic Statistical Measures			
Location		Variability	
Mean	6.388146	Std Deviation	1.56403
Median	6.310000	Variance	2.44619
Mode	7.000000	Range	10.05000
		Interquartile Range	1.88000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	58.47994	Pr > t 	<.0001
Sign	M	102.5	Pr >= M 	<.0001
Signed Rank	S	10557.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.04
99%	10.60
95%	8.95
90%	8.35
75% Q3	7.24
50% Median	6.31
25% Q1	5.36
10%	4.37
5%	3.86

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.30
0% Min	2.99

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.99	737	10.00	730
3.19	858	10.52	755
3.30	718	10.60	709
3.61	845	10.96	850
3.63	810	13.04	775

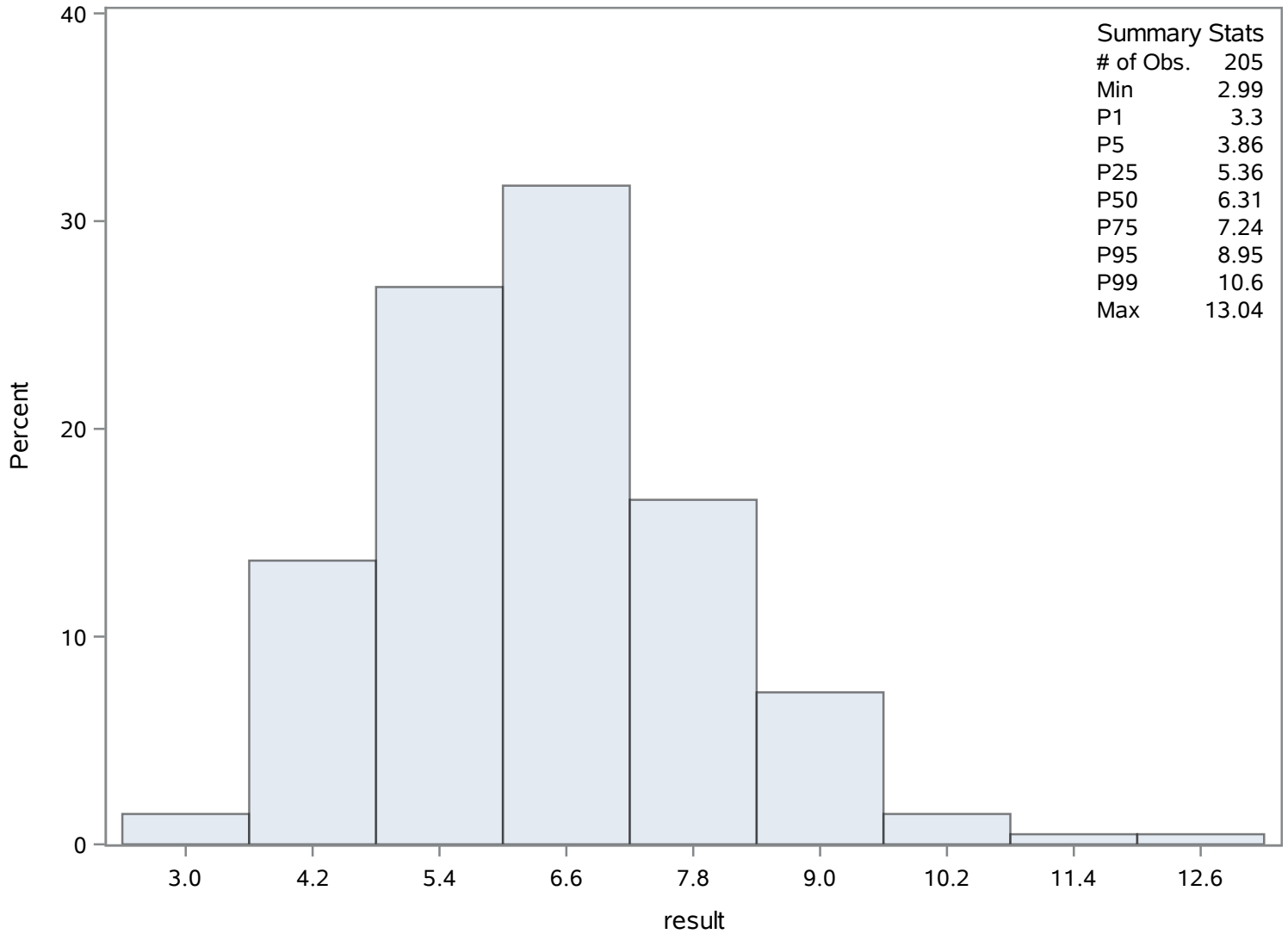
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3 Dissolved Oxygen (Total) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Moments			
N	182	Sum Weights	182
Mean	1.86448901	Sum Observations	339.337
Std Deviation	0.94984912	Variance	0.90221336
Skewness	4.90167276	Kurtosis	36.5984641
Uncorrected SS	795.990725	Corrected SS	163.300617
Coeff Variation	50.944206	Std Error Mean	0.0704075

Basic Statistical Measures			
Location		Variability	
Mean	1.864489	Std Deviation	0.94985
Median	1.712500	Variance	0.90221
Mode	1.250000	Range	9.78500
		Interquartile Range	0.66100

Note: The mode displayed is the smallest of 14 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.4814	Pr > t 	<.0001
Sign	M	91	Pr >= M 	<.0001
Signed Rank	S	8326.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.2900
99%	6.3790
95%	3.1690
90%	2.5900
75% Q3	2.0250
50% Median	1.7125
25% Q1	1.3640
10%	1.1810
5%	1.0680

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	0.9640
0% Min	0.5050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.505	975	3.894	918
0.964	1066	4.071	956
0.972	1072	5.004	925
0.980	907	6.379	942
1.010	1010	10.290	943

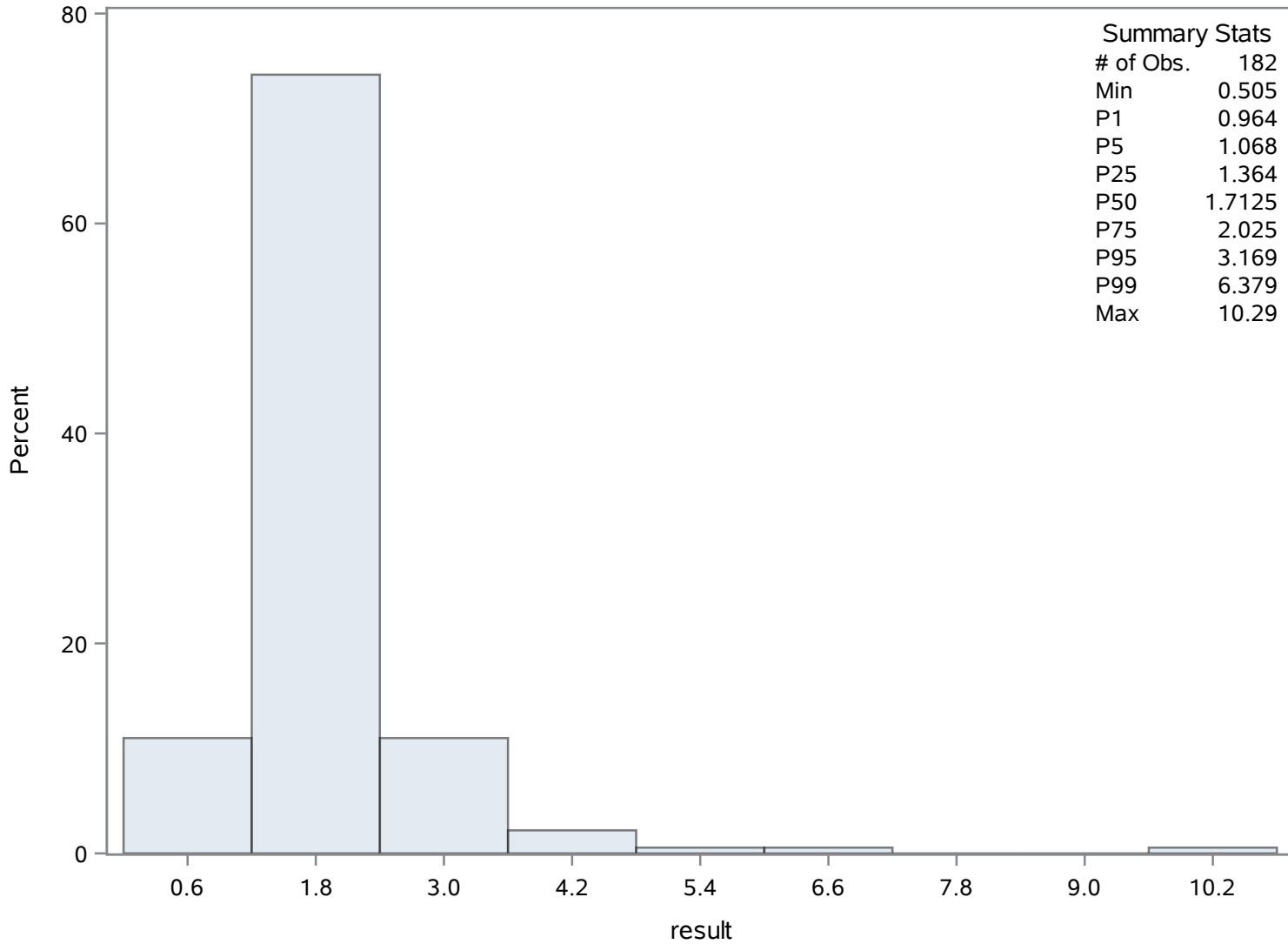
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3 Light, Attenuation Coefficient Kd/m

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	406.699029	Sum Observations	83780
Std Deviation	150.844054	Variance	22753.9285
Skewness	1.04747336	Kurtosis	1.31849323
Uncorrected SS	38737800	Corrected SS	4664555.34
Coeff Variation	37.0898484	Std Error Mean	10.5098032

Basic Statistical Measures			
Location		Variability	
Mean	406.6990	Std Deviation	150.84405
Median	380.0000	Variance	22754
Mode	280.0000	Range	810.00000
		Interquartile Range	200.00000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	38.69711	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	970
99%	880
95%	690
90%	620
75% Q3	490
50% Median	380
25% Q1	290
10%	240
5%	210

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	170
0% Min	160

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
160	1096	790	1089
170	1273	820	1277
170	1213	880	1088
170	1143	960	1246
190	1157	970	1210

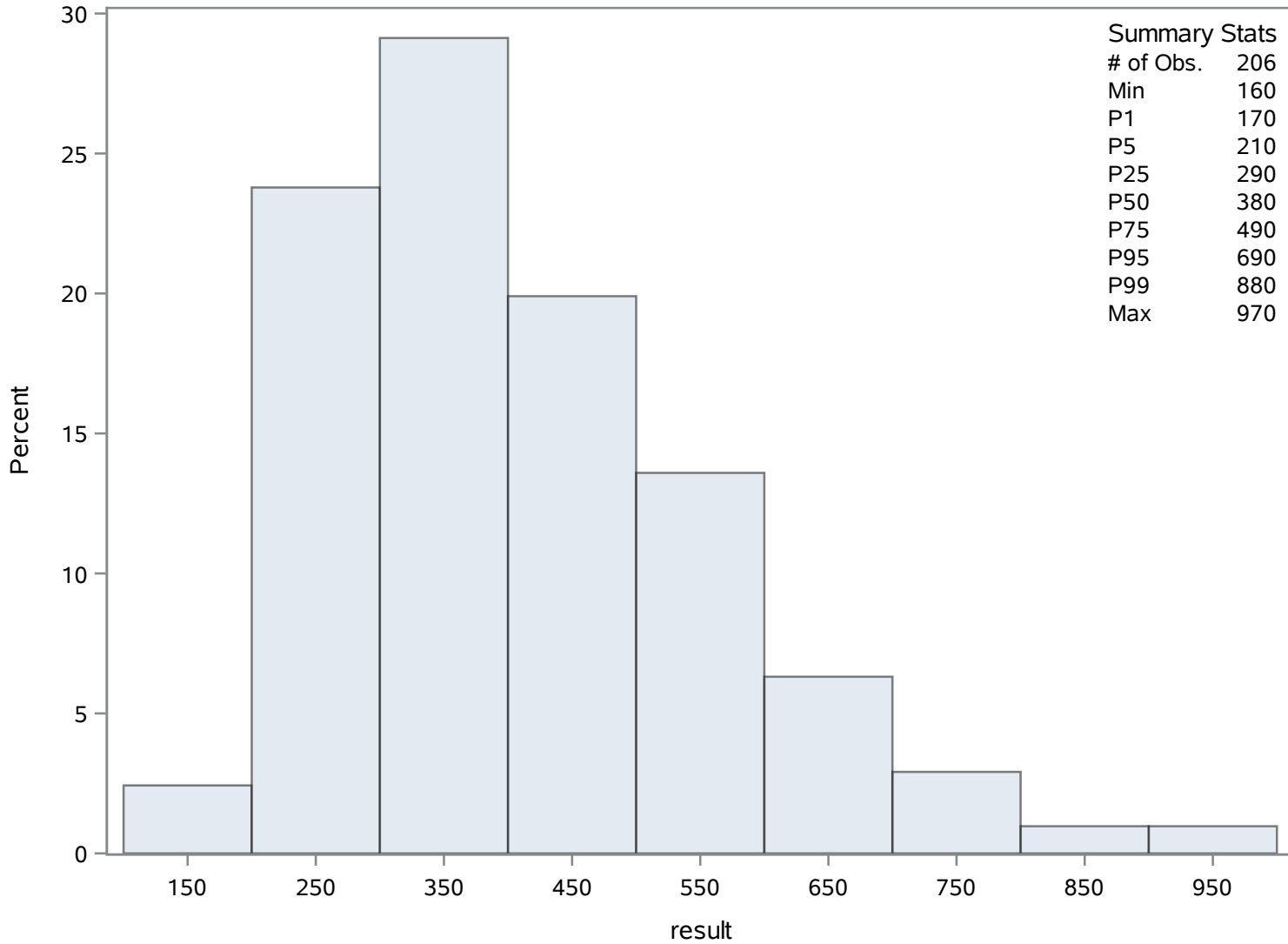
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3 Nitrogen- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	20.1990291	Sum Observations	4161
Std Deviation	6.3456687	Variance	40.2675112
Skewness	0.6456524	Kurtosis	0.69892945
Uncorrected SS	92303	Corrected SS	8254.83981
Coeff Variation	31.4157114	Std Error Mean	0.44212369

Basic Statistical Measures			
Location		Variability	
Mean	20.19903	Std Deviation	6.34567
Median	19.00000	Variance	40.26751
Mode	19.00000	Range	38.00000
		Interquartile Range	8.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	45.68638	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	43
99%	37
95%	32
90%	29
75% Q3	24
50% Median	19
25% Q1	16
10%	13
5%	11
1%	8
0% Min	5

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	1454	36	1416
6	1483	37	1448
8	1349	37	1452
9	1479	39	1403
9	1303	43	1429

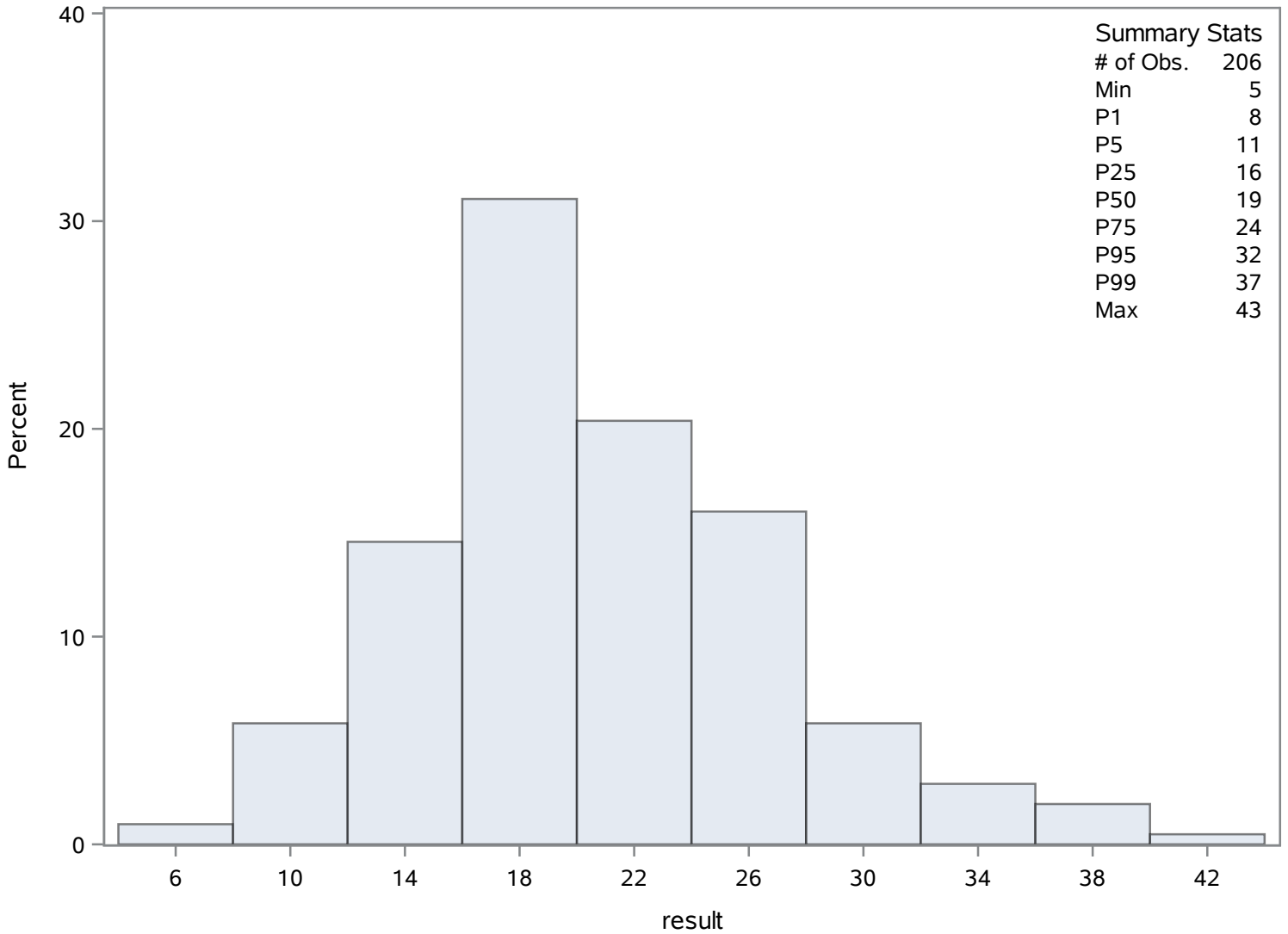
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3 Phosphorus- Total (Total) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Moments			
N	207	Sum Weights	207
Mean	8.19463768	Sum Observations	1696.29
Std Deviation	4.16734925	Variance	17.3667997
Skewness	1.02593225	Kurtosis	1.06681396
Uncorrected SS	17478.0427	Corrected SS	3577.56075
Coeff Variation	50.8545882	Std Error Mean	0.2896508

Basic Statistical Measures			
Location		Variability	
Mean	8.194638	Std Deviation	4.16735
Median	7.490000	Variance	17.36680
Mode	4.000000	Range	23.77000
		Interquartile Range	5.75000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	28.29144	Pr > t 	<.0001
Sign	M	103.5	Pr >= M 	<.0001
Signed Rank	S	10764	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.90
99%	18.69
95%	16.67
90%	14.16
75% Q3	10.63
50% Median	7.49
25% Q1	4.88
10%	3.66
5%	3.14
1%	2.42
0% Min	2.13

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Salinity (Total) ppth

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.13	1567	18.18	1630
2.26	1561	18.20	1524
2.42	1574	18.69	1666
2.69	1591	20.00	1490
2.74	1589	25.90	1511

Chassahowitzka River - Fixed Station

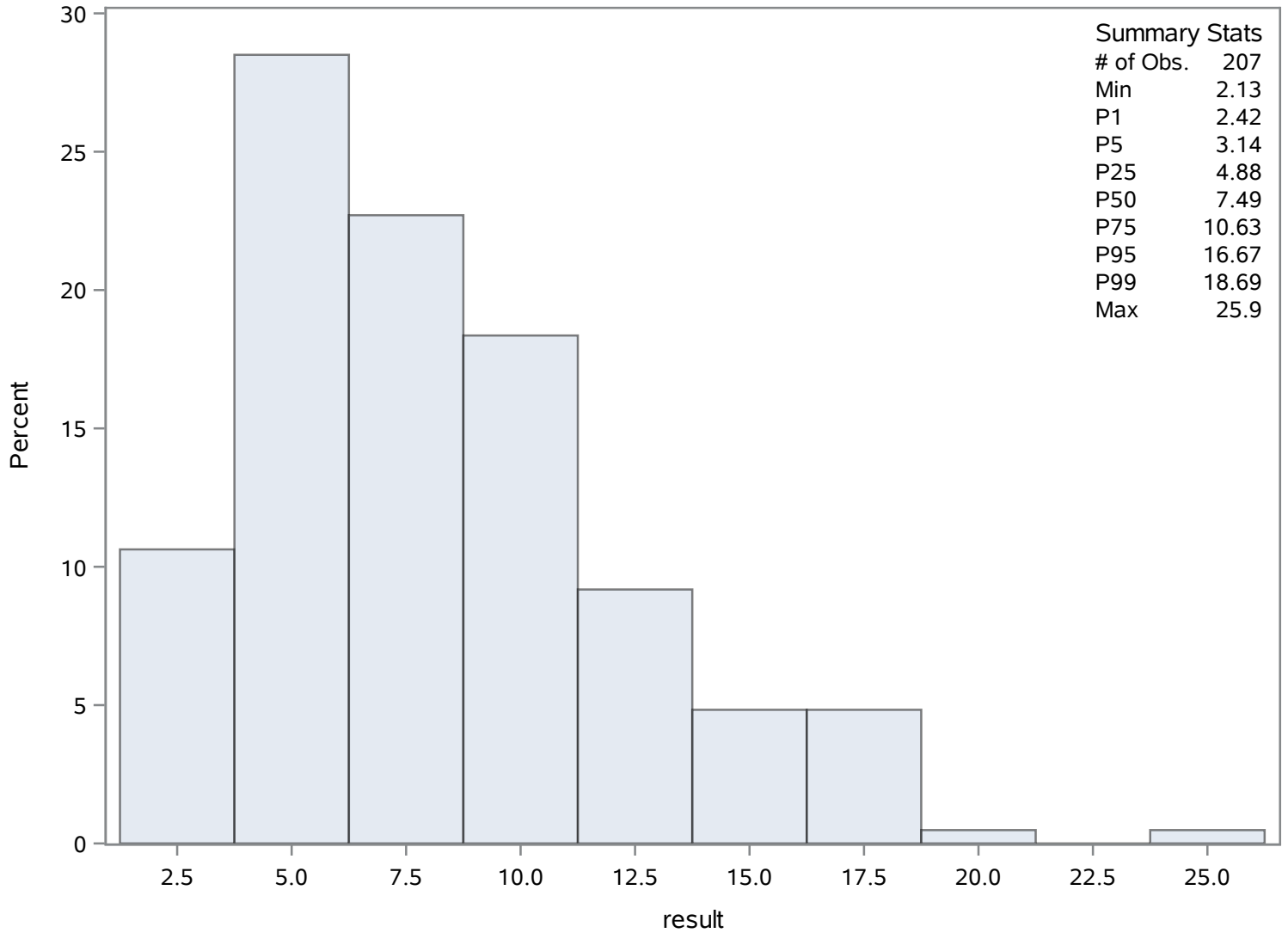
Source: Inactive

Chassahowitzka Citrus 3

Salinity (Total) ppth

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3

Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Moments			
N	170	Sum Weights	170
Mean	1.55411765	Sum Observations	264.2
Std Deviation	0.43962139	Variance	0.19326697
Skewness	0.50022879	Kurtosis	0.49112451
Uncorrected SS	443.26	Corrected SS	32.6621176
Coeff Variation	28.2875233	Std Error Mean	0.03371742

Basic Statistical Measures			
Location		Variability	
Mean	1.554118	Std Deviation	0.43962
Median	1.500000	Variance	0.19327
Mode	1.300000	Range	2.40000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	46.09242	Pr > t 	<.0001
Sign	M	85	Pr >= M 	<.0001
Signed Rank	S	7267.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.1
99%	2.9
95%	2.3
90%	2.1
75% Q3	1.8
50% Median	1.5
25% Q1	1.3
10%	1.0
5%	0.9
1%	0.7
0% Min	0.7

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Secchi-vertical (Total) Meters

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	1840	2.5	1736
0.7	1836	2.6	1727
0.7	1721	2.6	1763
0.8	1847	2.9	1751
0.8	1797	3.1	1711

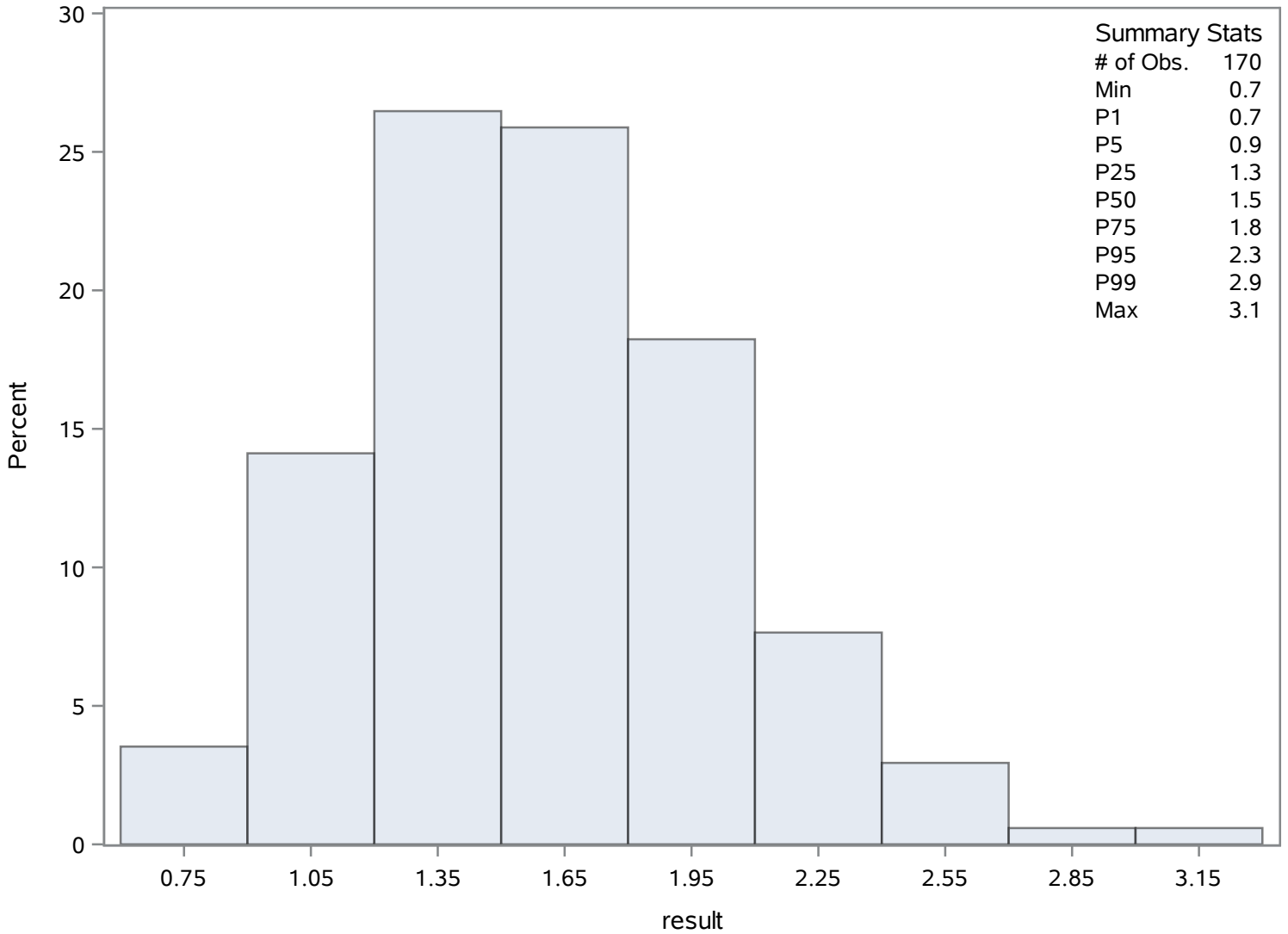
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3 Secchi-vertical (Total) Meters

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	206	Sum Weights	206
Mean	23.8112621	Sum Observations	4905.12
Std Deviation	4.90199276	Variance	24.029533
Skewness	-0.3172717	Kurtosis	-0.863027
Uncorrected SS	121723.152	Corrected SS	4926.05427
Coeff Variation	20.5868666	Std Error Mean	0.34153802

Basic Statistical Measures			
Location		Variability	
Mean	23.81126	Std Deviation	4.90199
Median	23.90000	Variance	24.02953
Mode	28.00000	Range	20.54000
		Interquartile Range	7.94000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	69.71775	Pr > t 	<.0001
Sign	M	103	Pr >= M 	<.0001
Signed Rank	S	10660.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.04
99%	31.30
95%	30.80
90%	30.07
75% Q3	27.95
50% Median	23.90
25% Q1	20.01
10%	17.07
5%	15.86
1%	12.85
0% Min	11.50

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.50	1906	31.20	1877
11.84	2027	31.20	1903
12.85	2026	31.30	1879
13.19	1931	31.48	1986
13.76	2003	32.04	2020

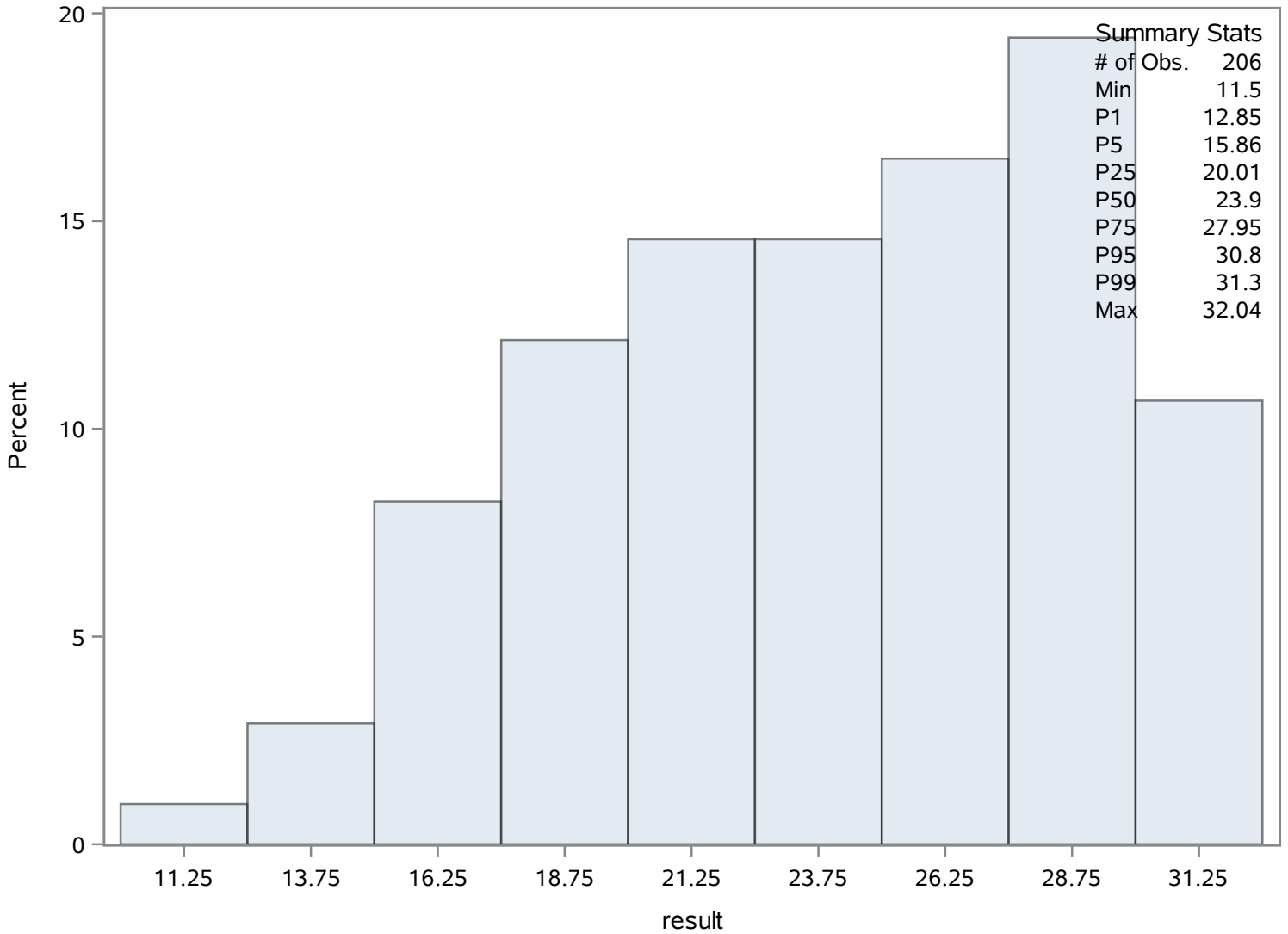
Chassahowitzka River - Fixed Station

Source: Inactive

Chassahowitzka Citrus 3 Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	142	Sum Weights	142
Mean	7.71443662	Sum Observations	1095.45
Std Deviation	0.30731167	Variance	0.09444046
Skewness	-0.255018	Kurtosis	1.5942251
Uncorrected SS	8464.0957	Corrected SS	13.3161049
Coeff Variation	3.98359183	Std Error Mean	0.02578902

Basic Statistical Measures			
Location		Variability	
Mean	7.714437	Std Deviation	0.30731
Median	7.730000	Variance	0.09444
Mode	7.600000	Range	2.11000
		Interquartile Range	0.34000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	299.1365	Pr > t 	<.0001
Sign	M	71	Pr >= M 	<.0001
Signed Rank	S	5076.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.61
99%	8.47
95%	8.19
90%	8.10
75% Q3	7.88
50% Median	7.73
25% Q1	7.54
10%	7.35
5%	7.25

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	6.90
0% Min	6.50

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.50	2141	8.26	2158
6.90	2142	8.40	2074
7.08	2199	8.40	2168
7.10	2191	8.47	2072
7.12	2175	8.61	2071

Chassahowitzka River - Fixed Station

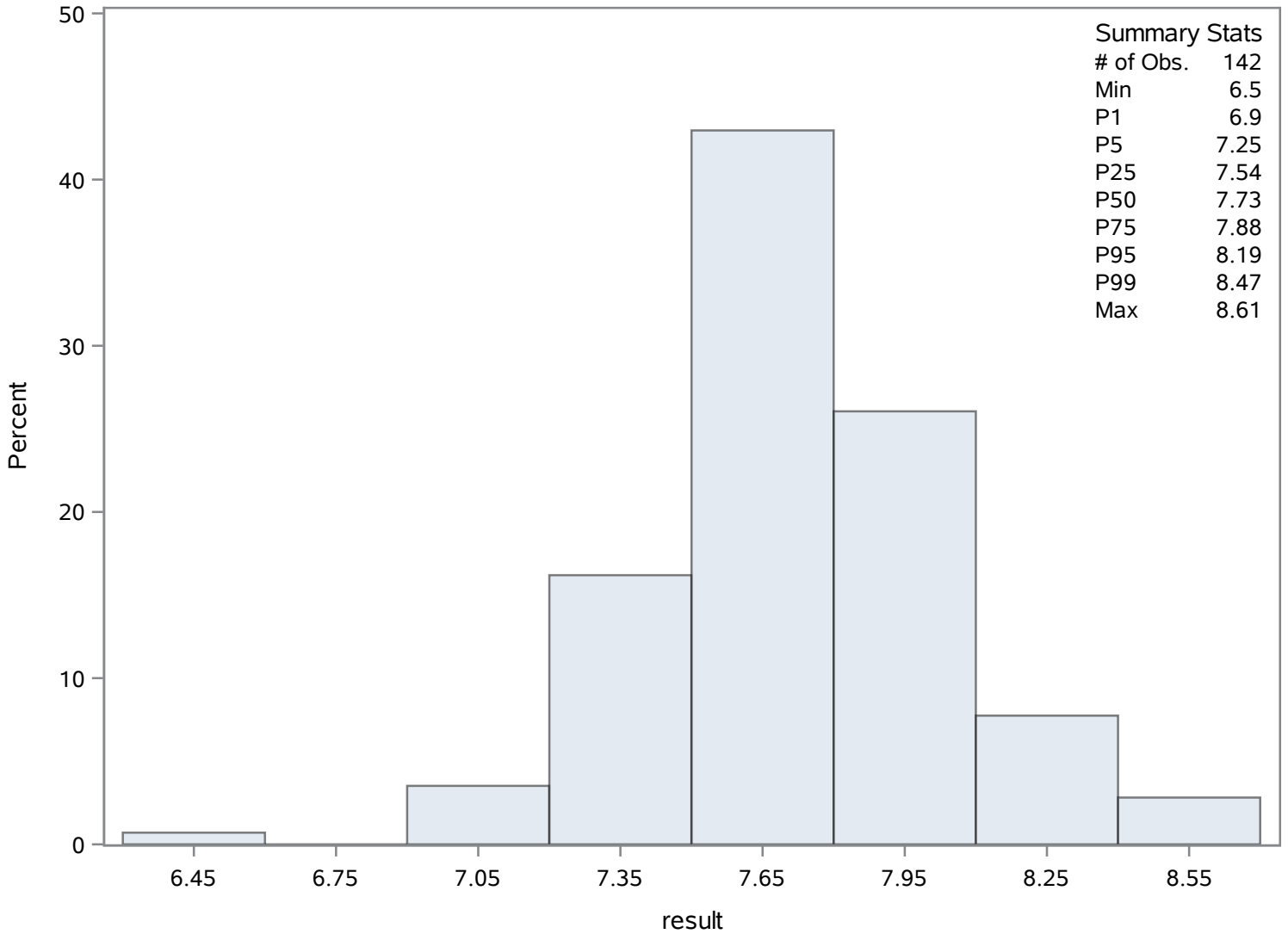
Source: Inactive

Chassahowitzka Citrus 3

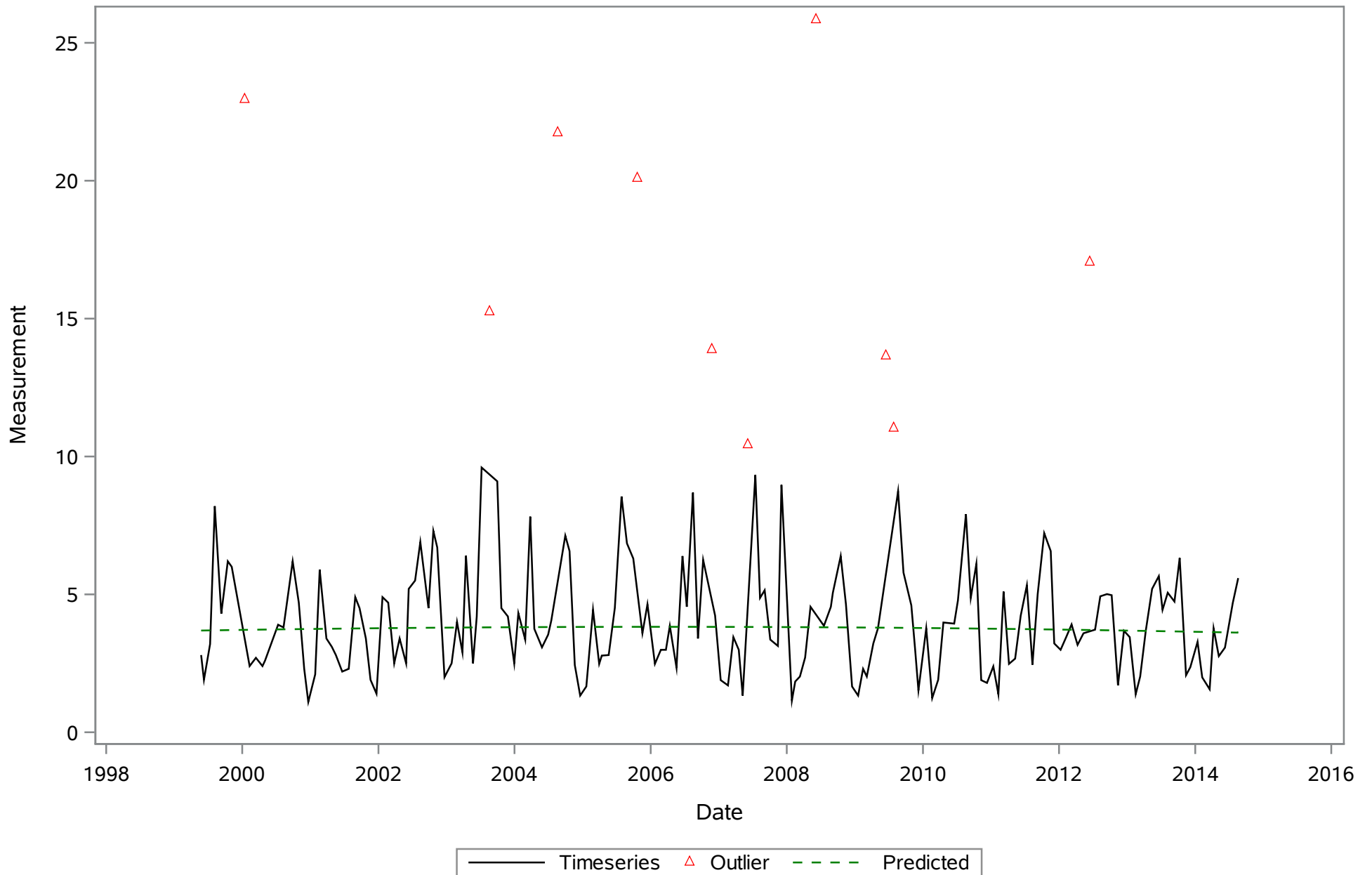
pH (Total) SU

The UNIVARIATE Procedure

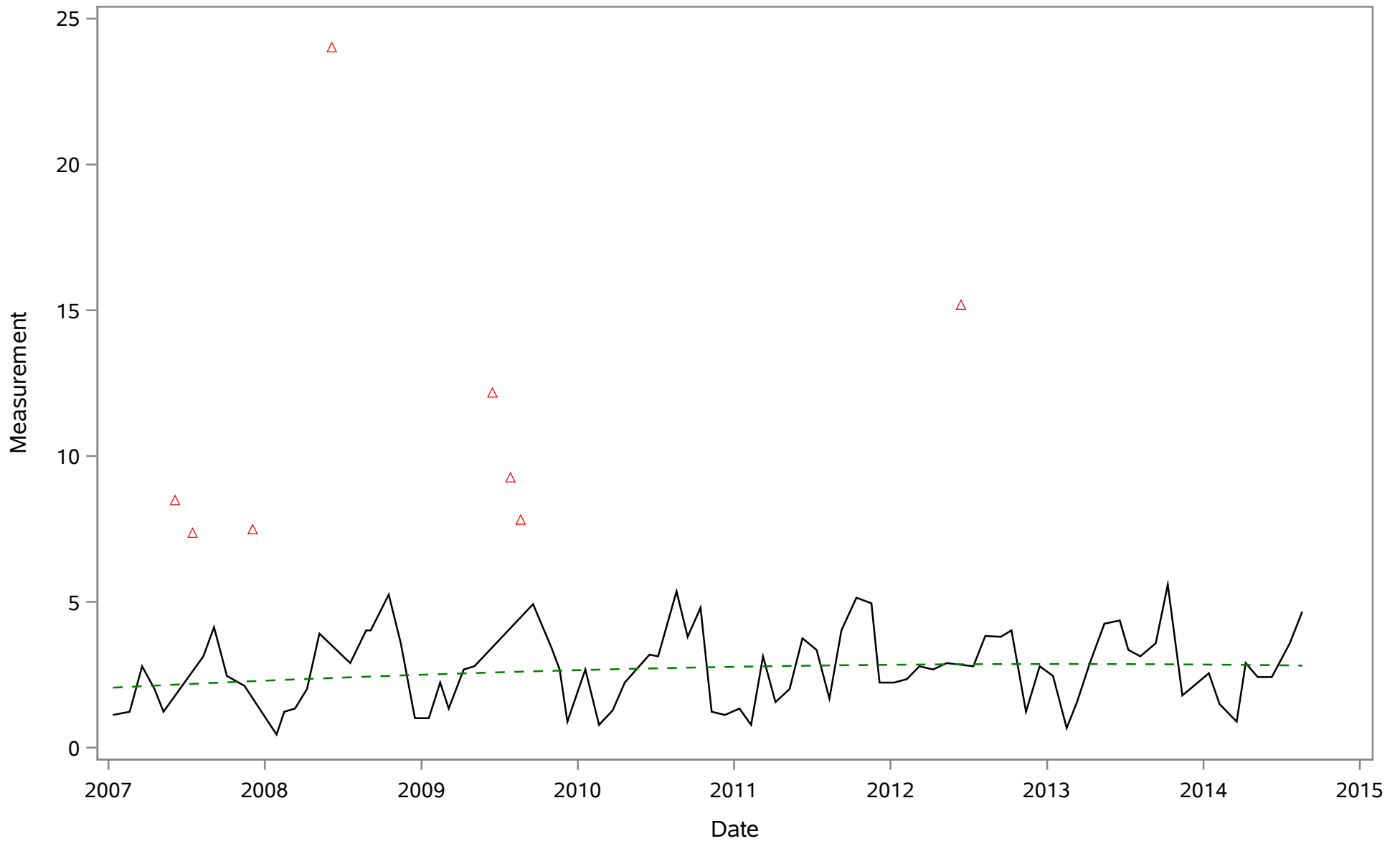
Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Chlorophyll (Total) ug/L

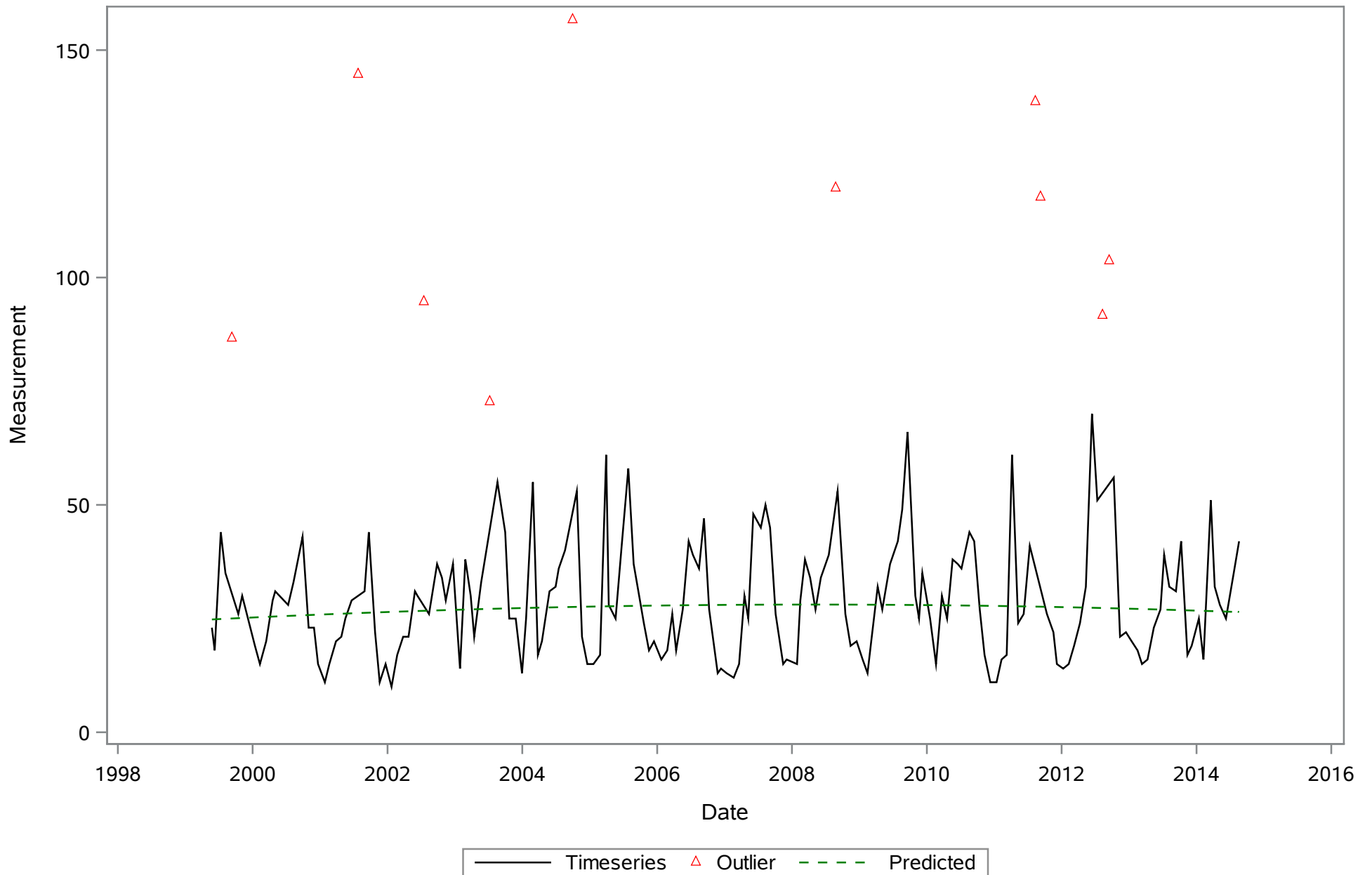


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Chlorophyll a (Total) ug/L

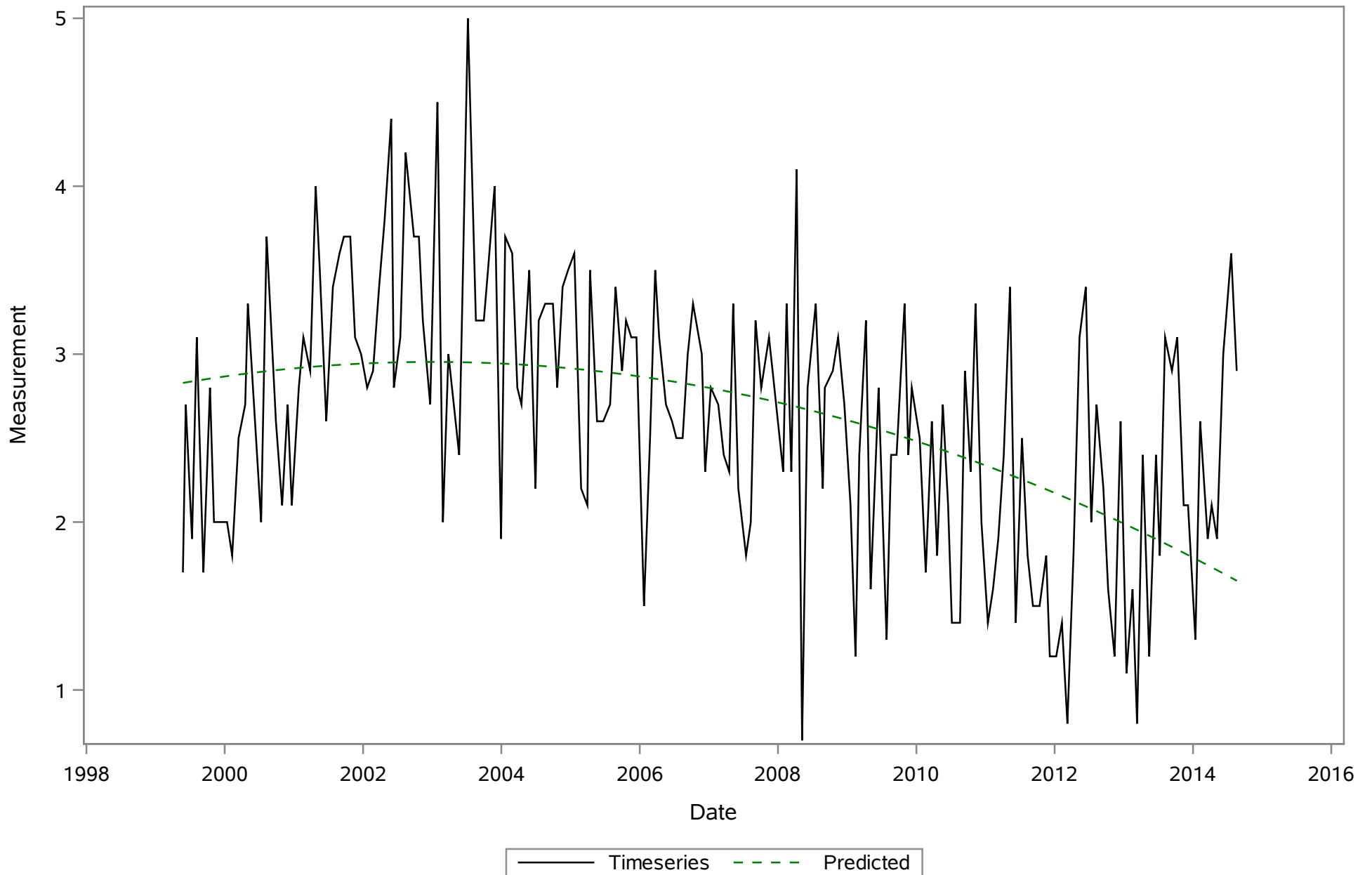


— Timeseries △ Outlier - - - Predicted

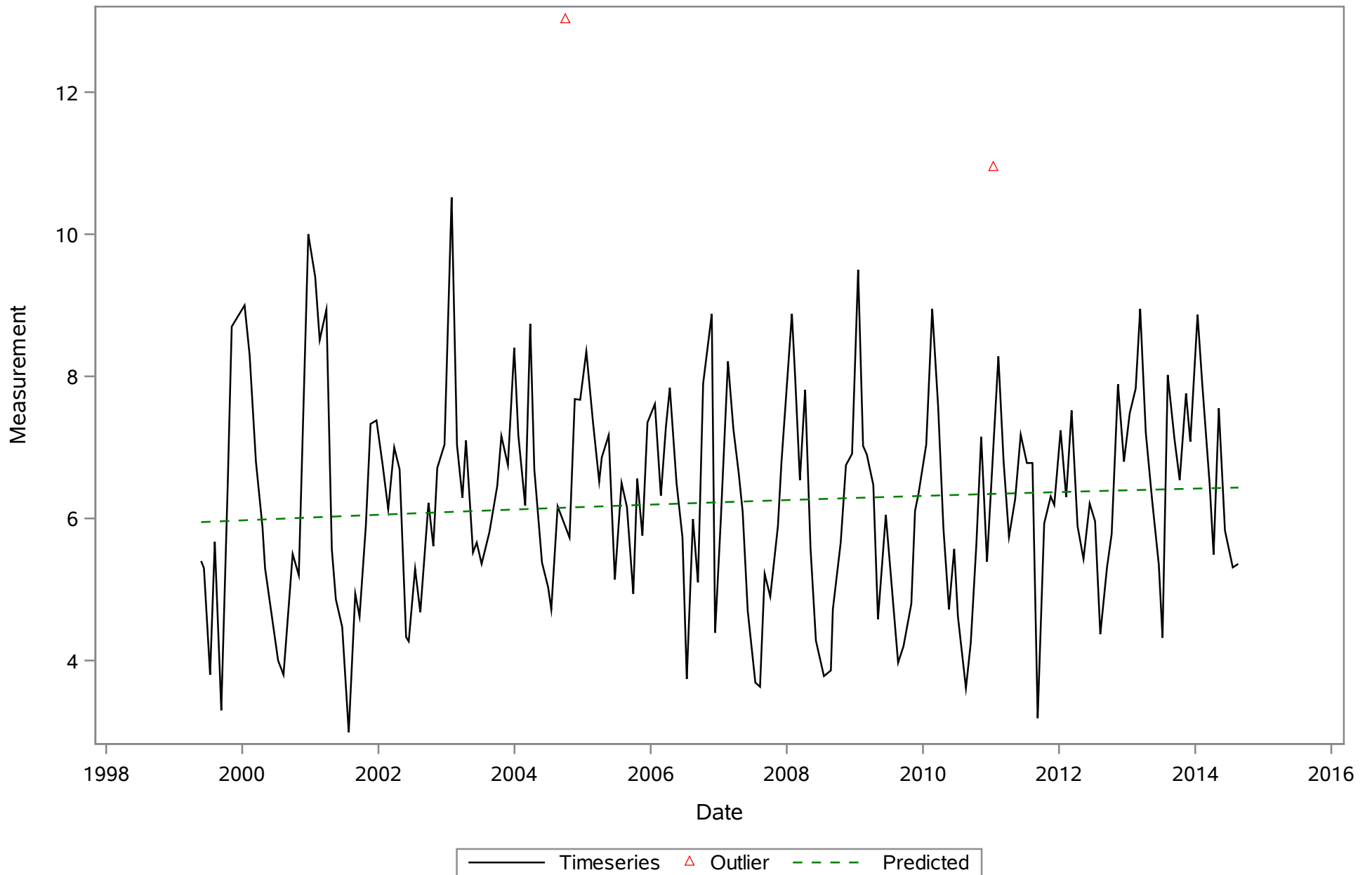
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Color (Total) PCU



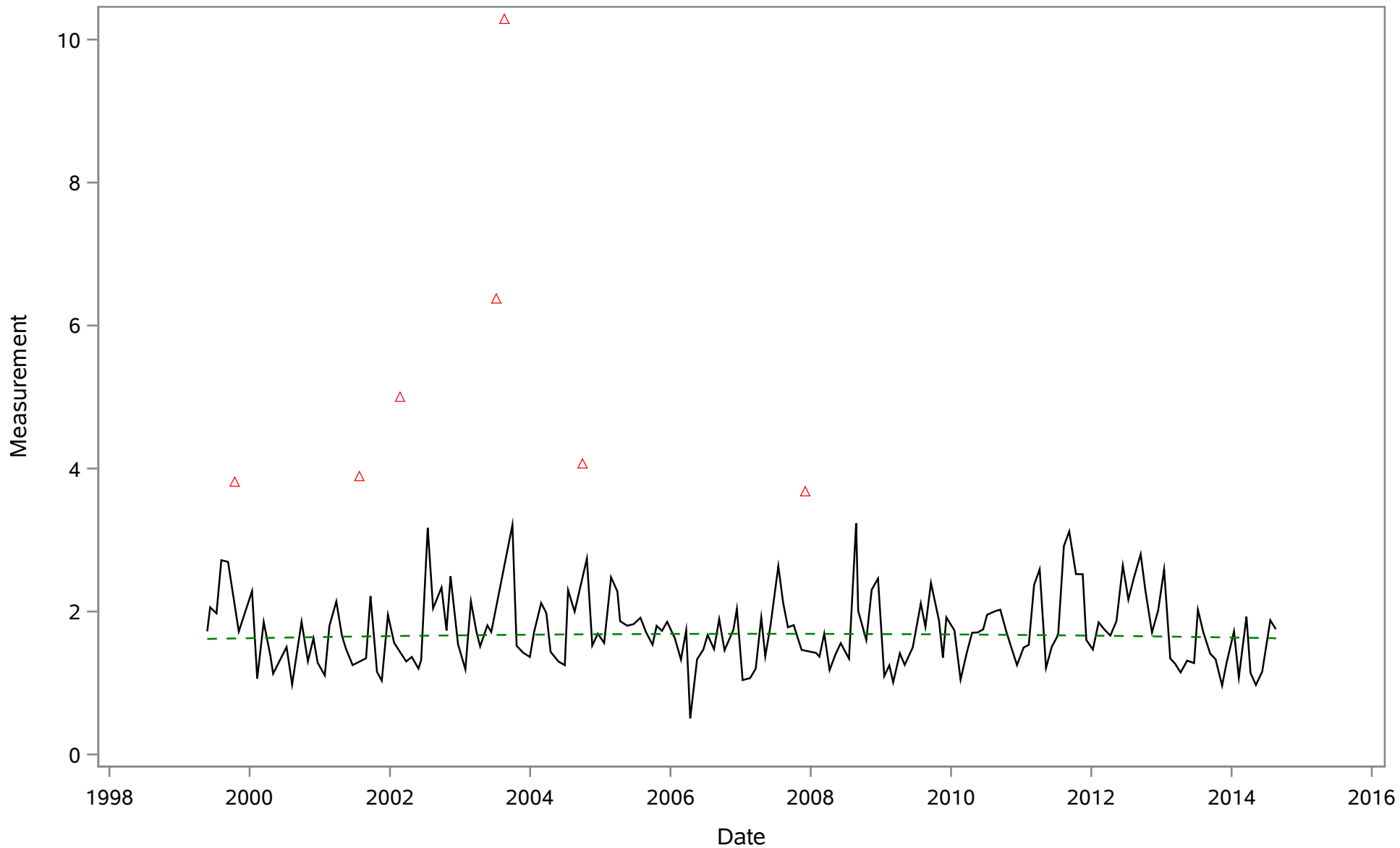
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Depth (Total) Meters



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L

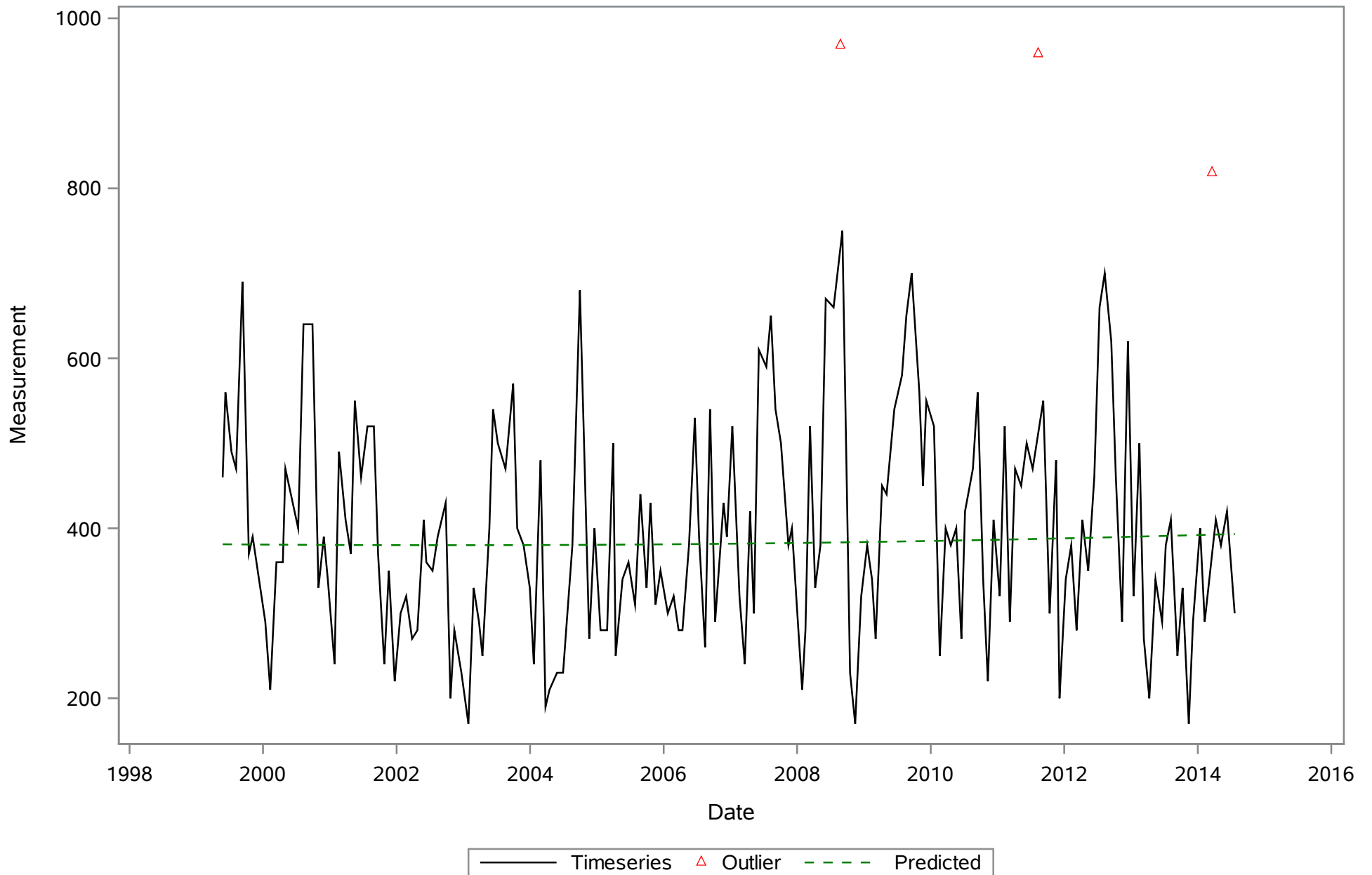


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m

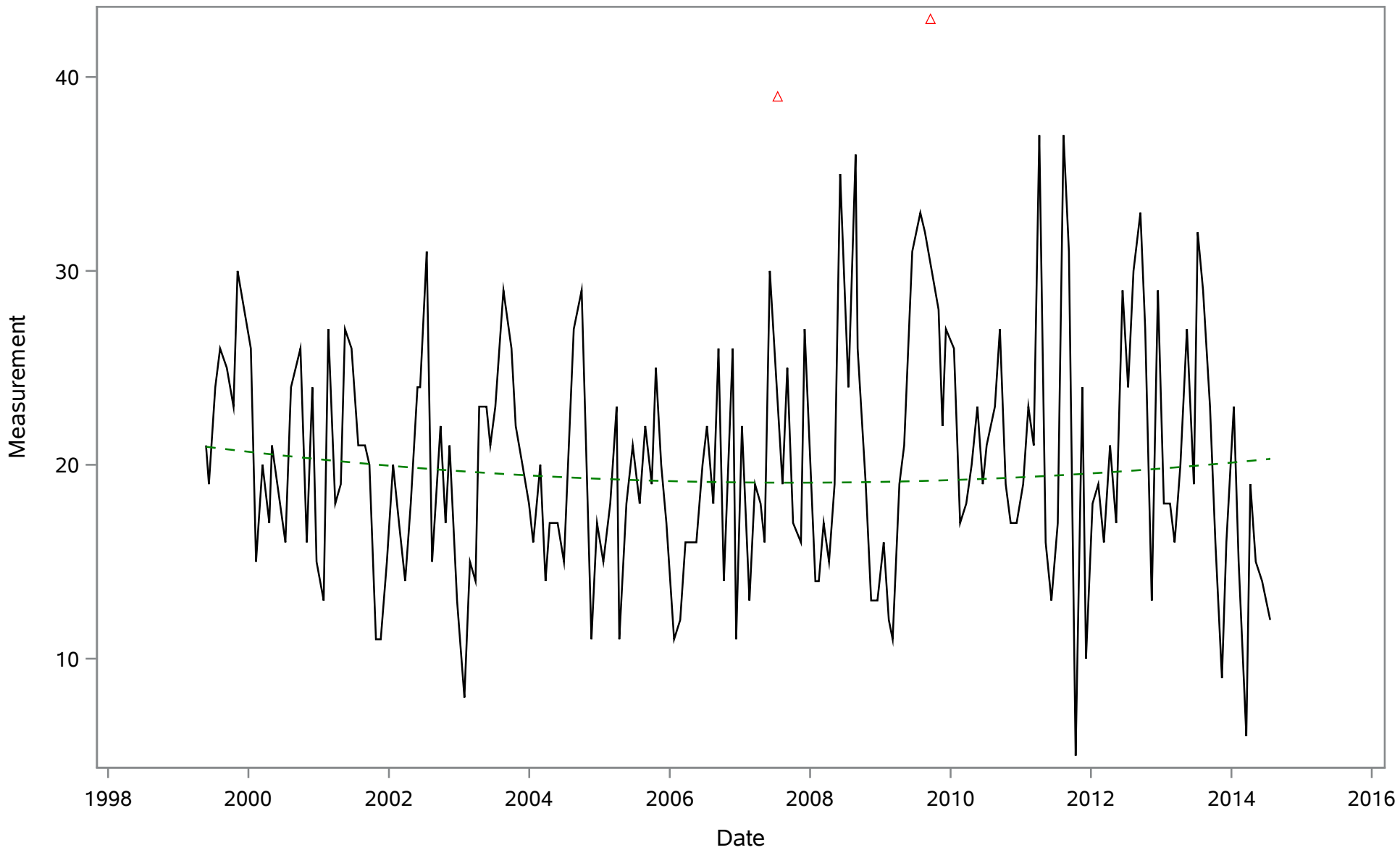


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L

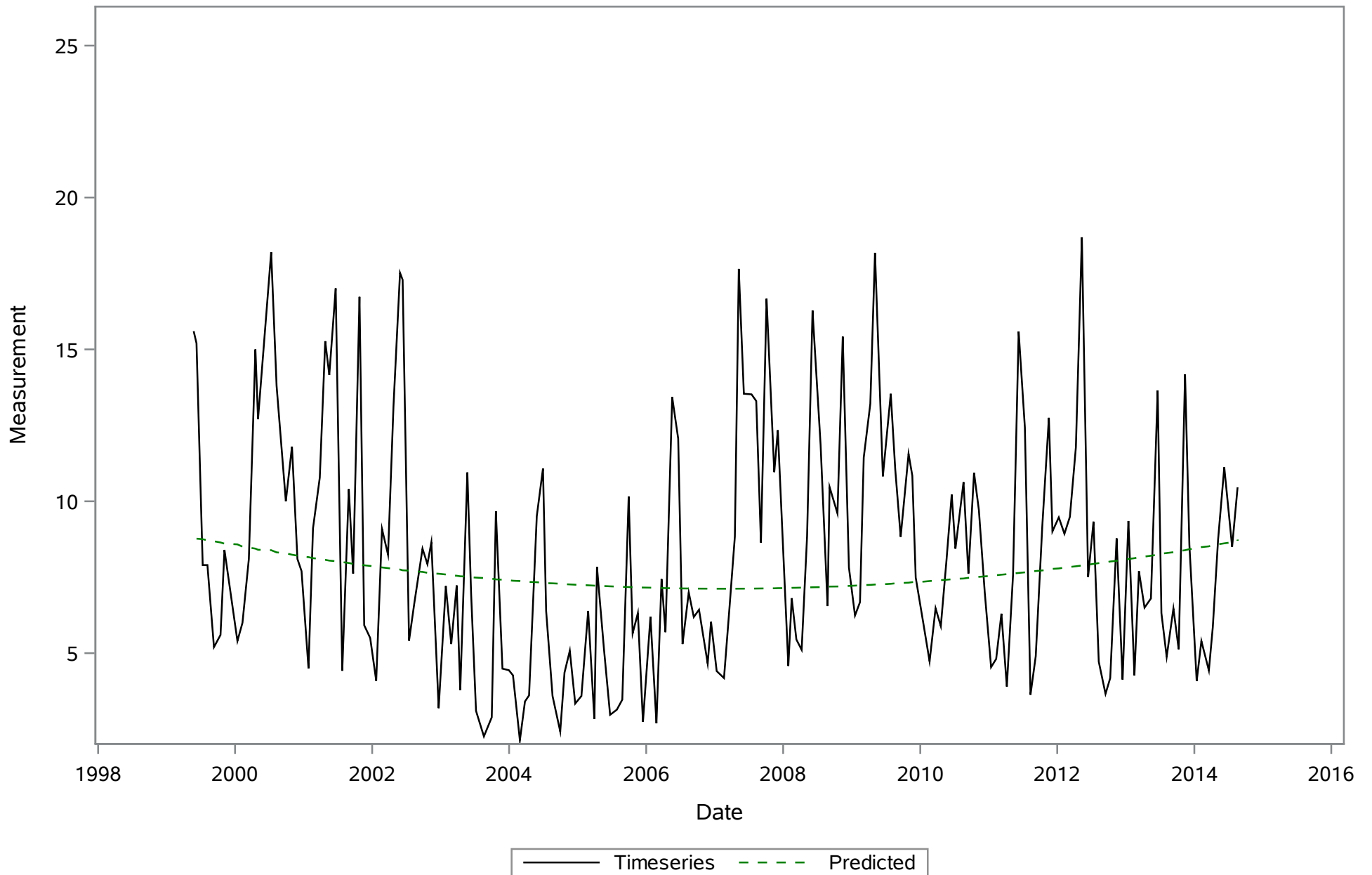


Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L

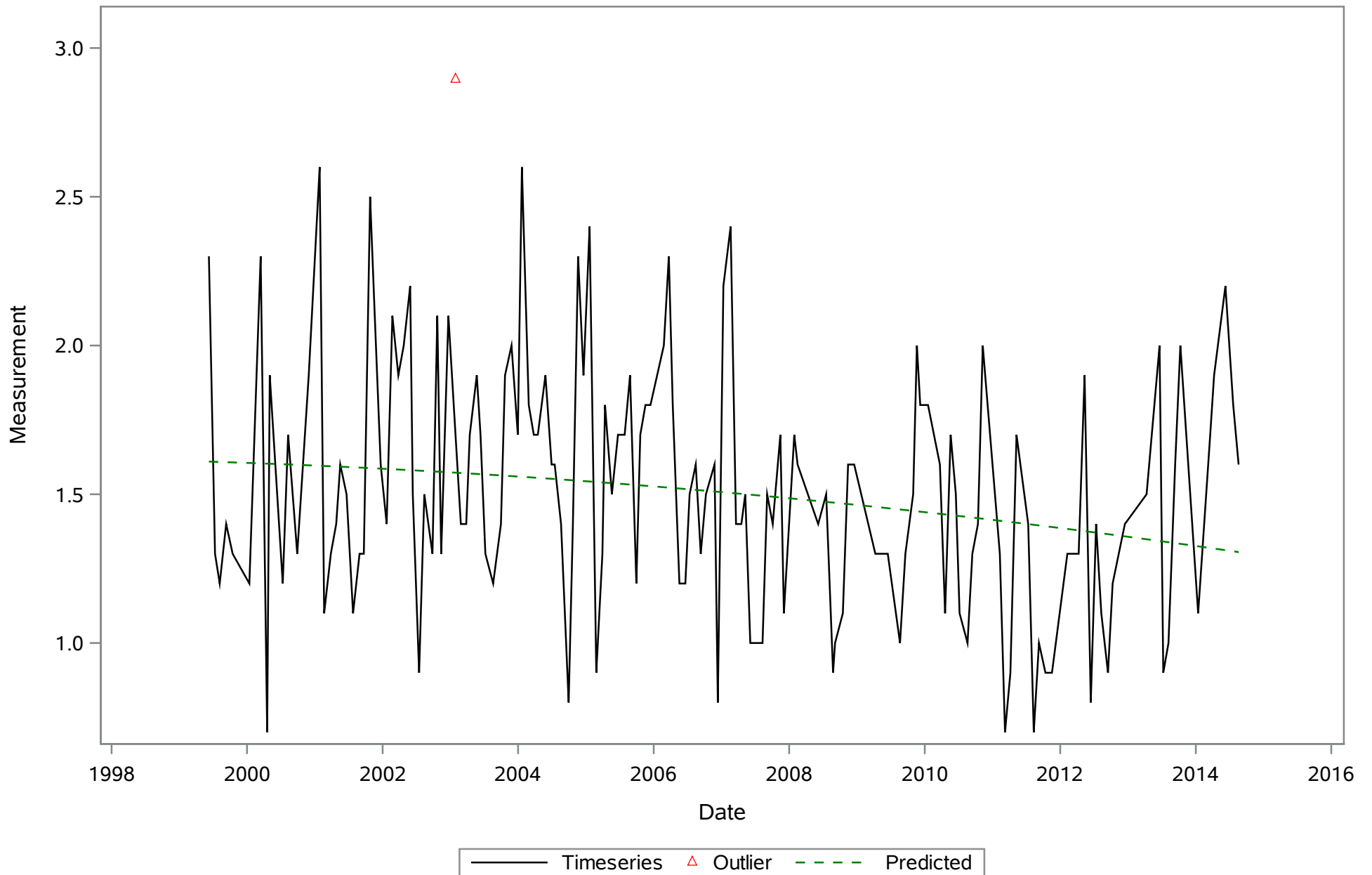


— Timeseries △ Outlier - - - Predicted

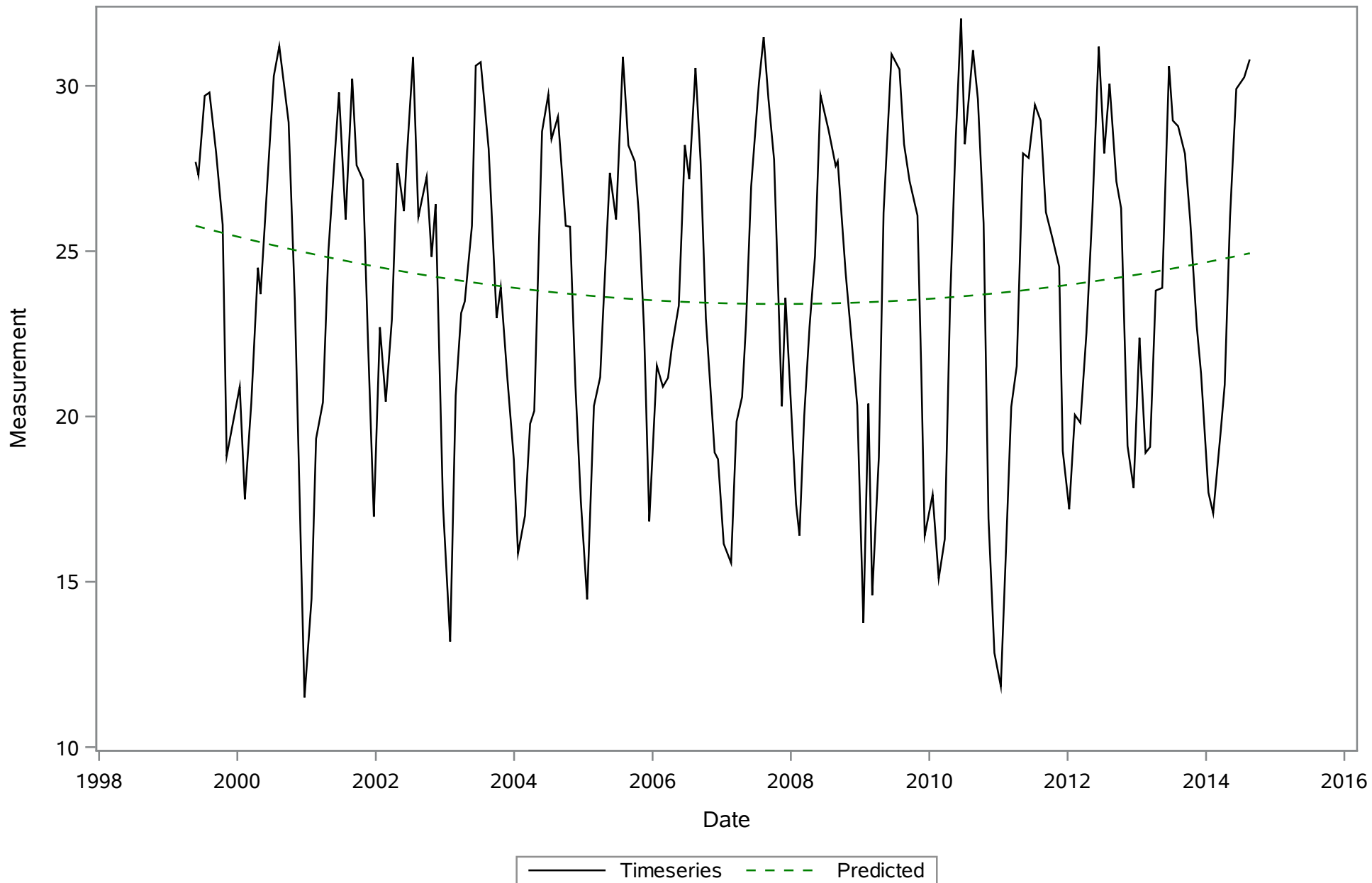
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Salinity (Total) ppt



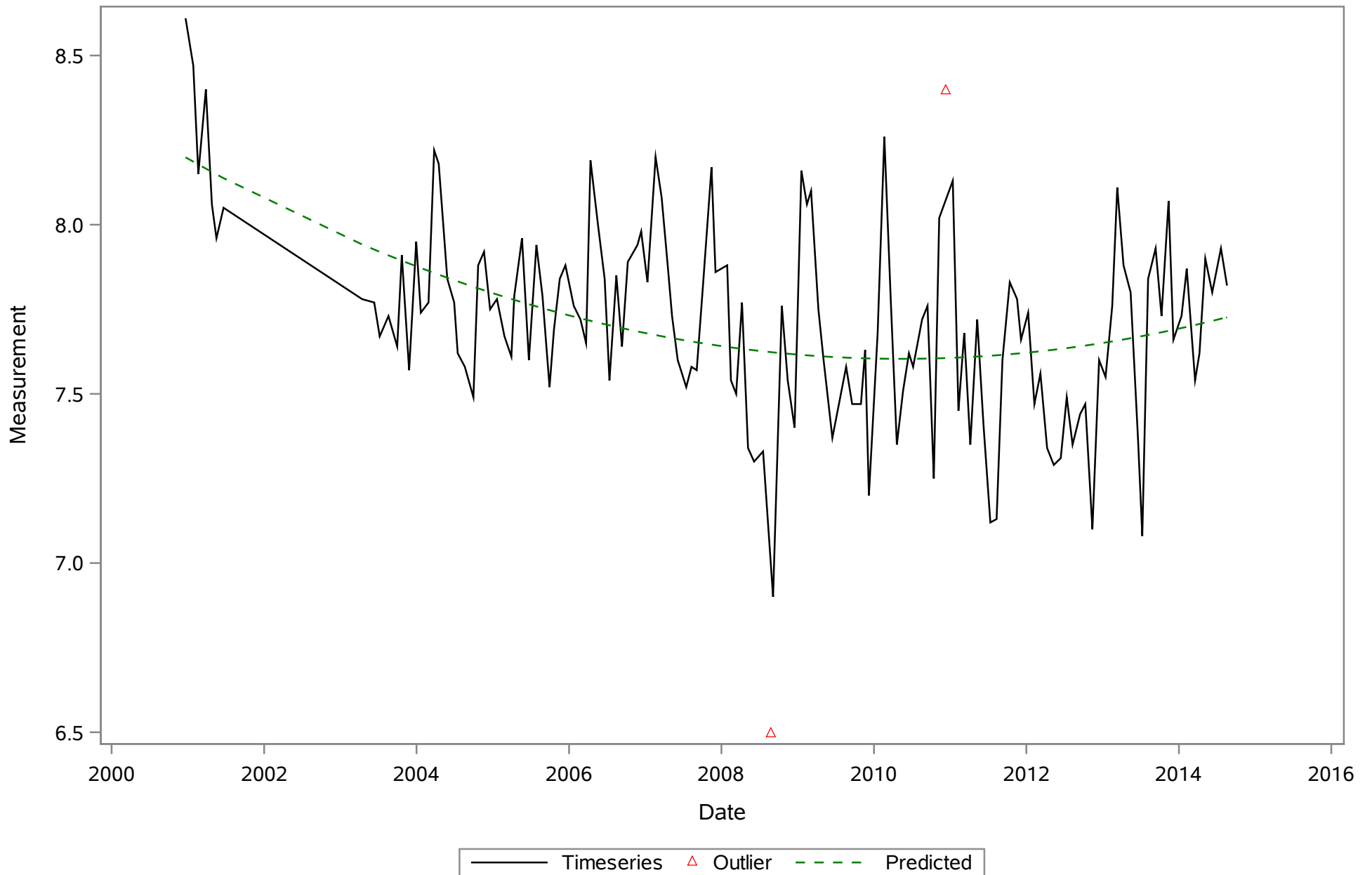
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Secchi-vertical (Total) Meters



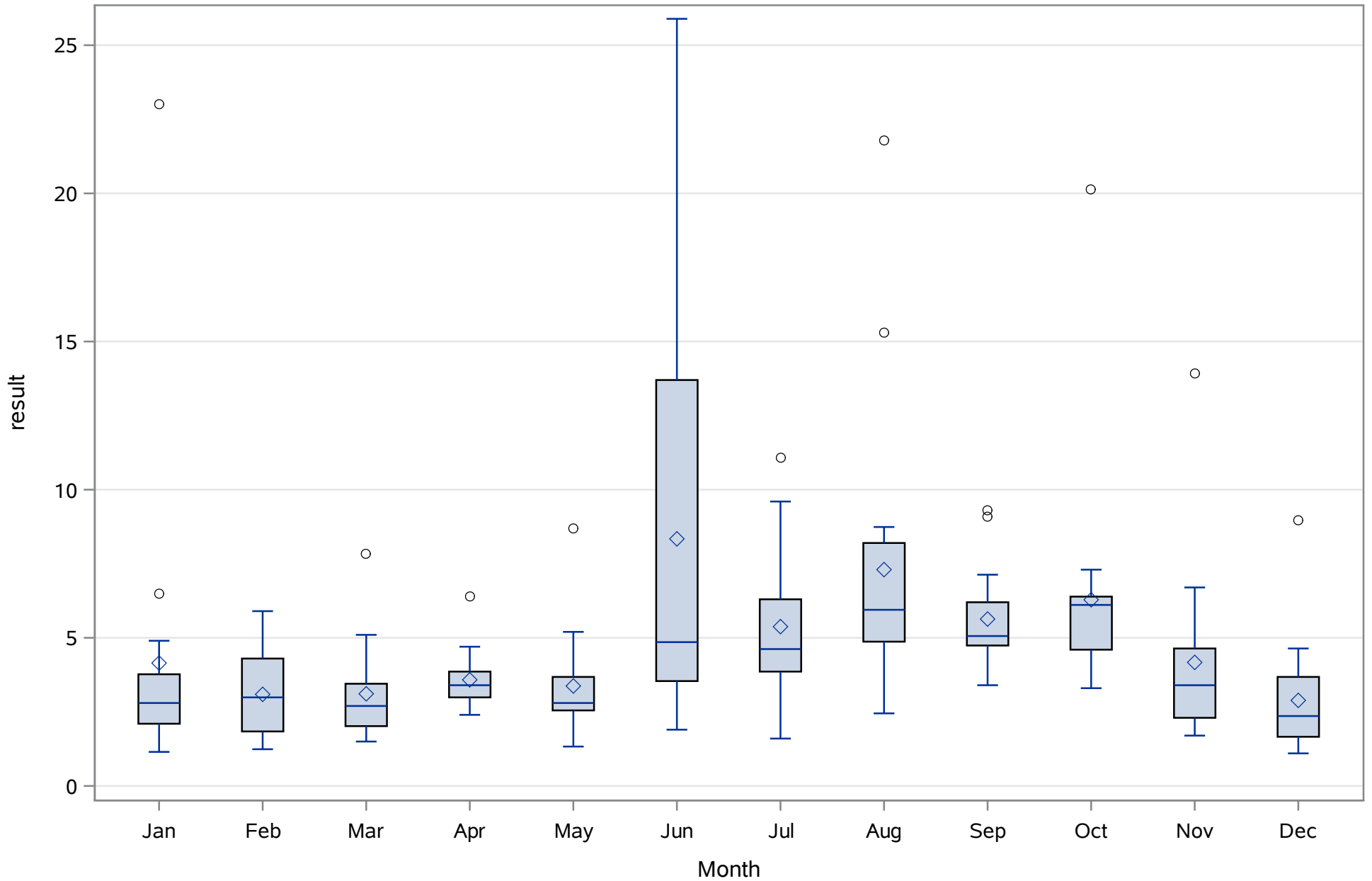
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Temperature (Total) Deg. C



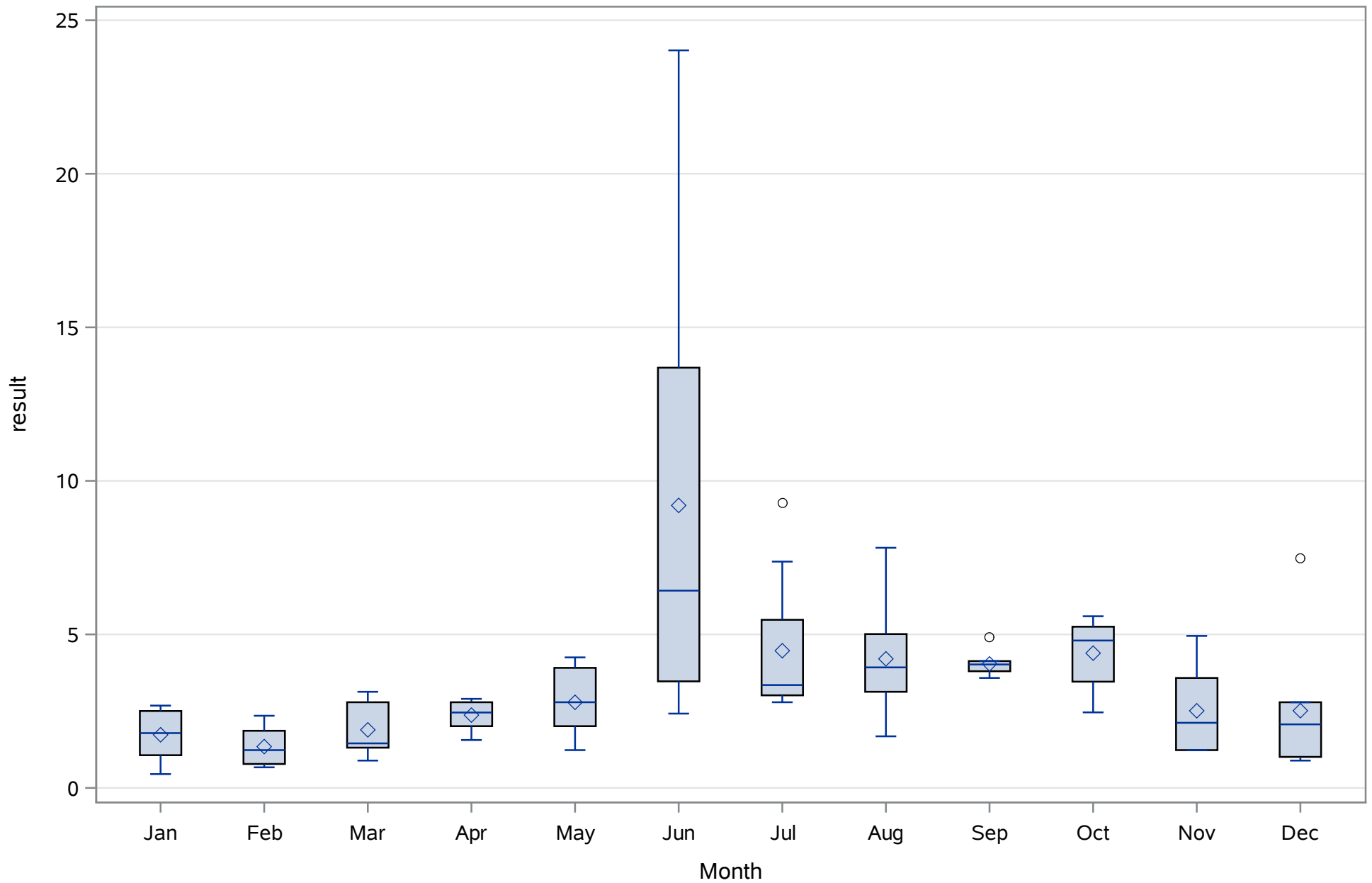
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
pH (Total) SU



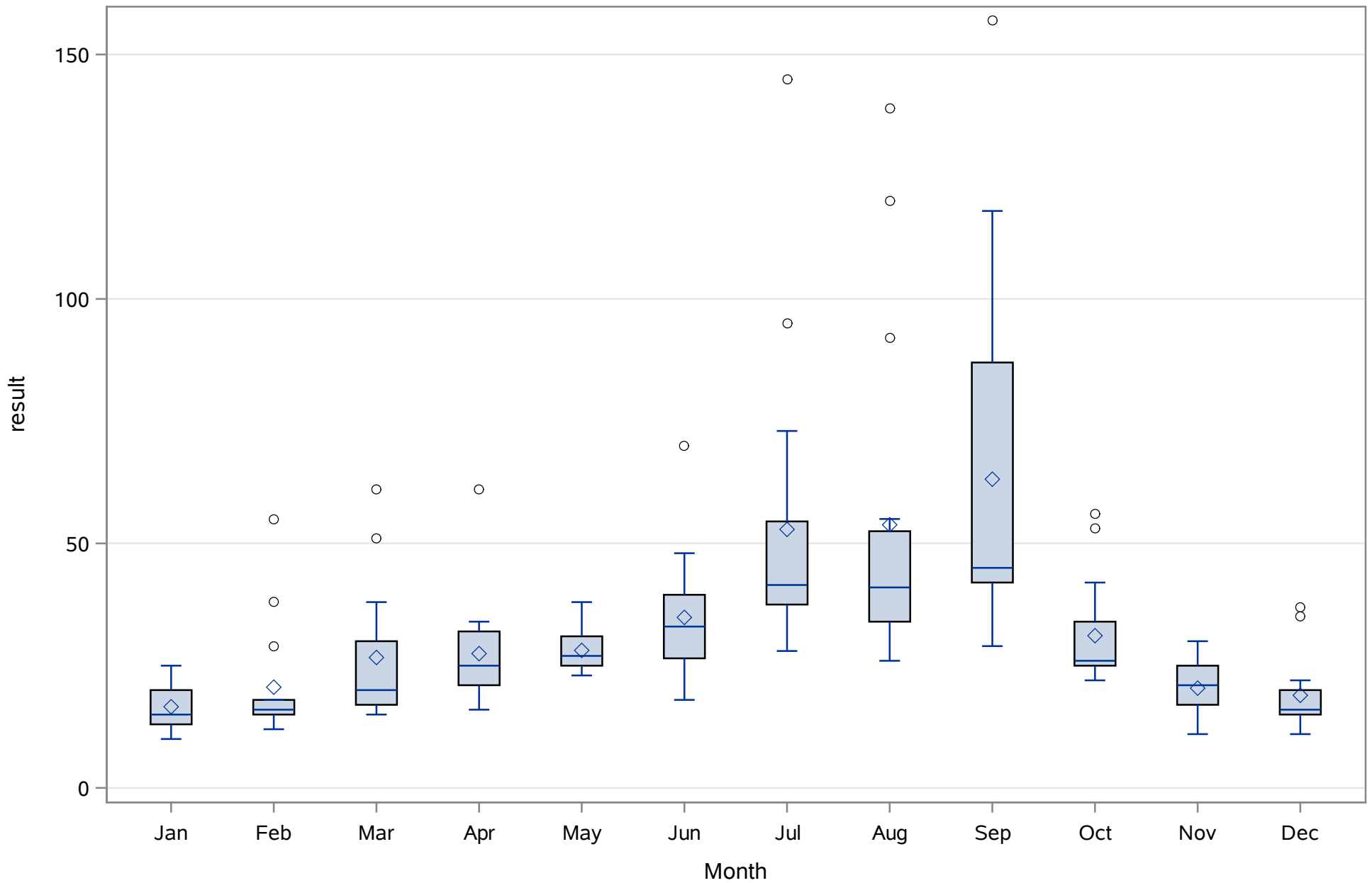
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Chlorophyll (Total) ug/L



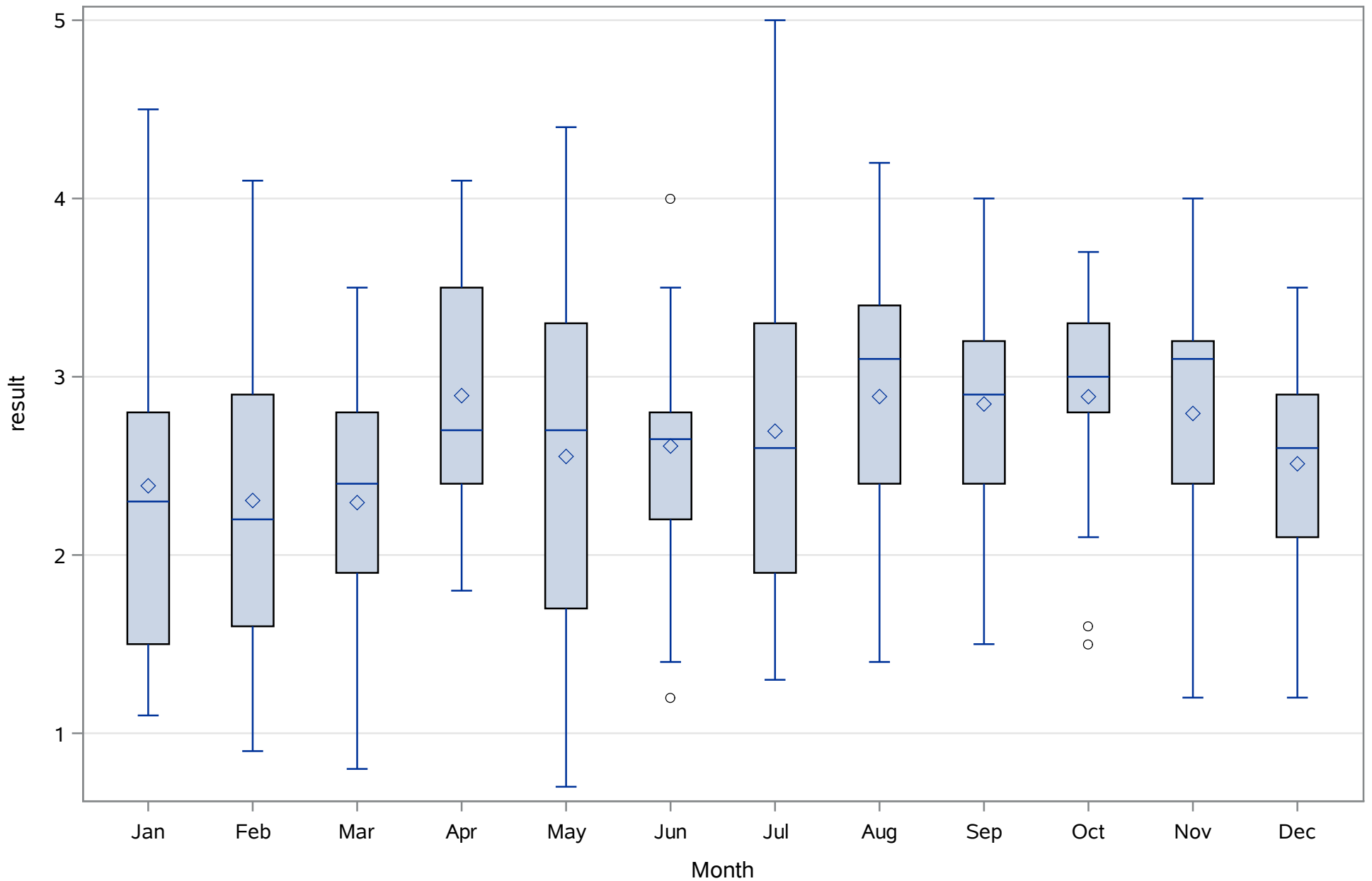
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Chlorophyll a (Total) ug/L



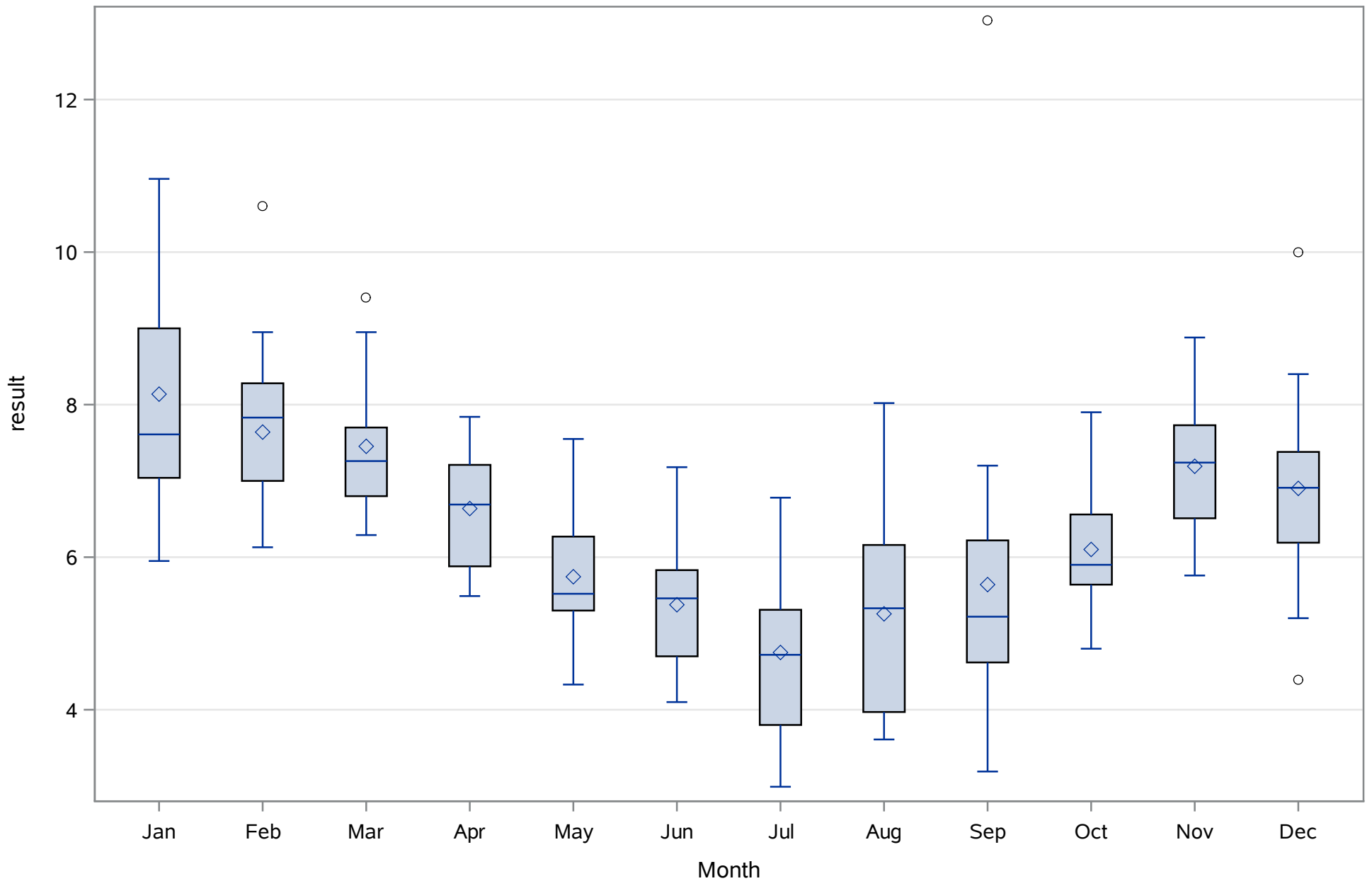
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Color (Total) PCU



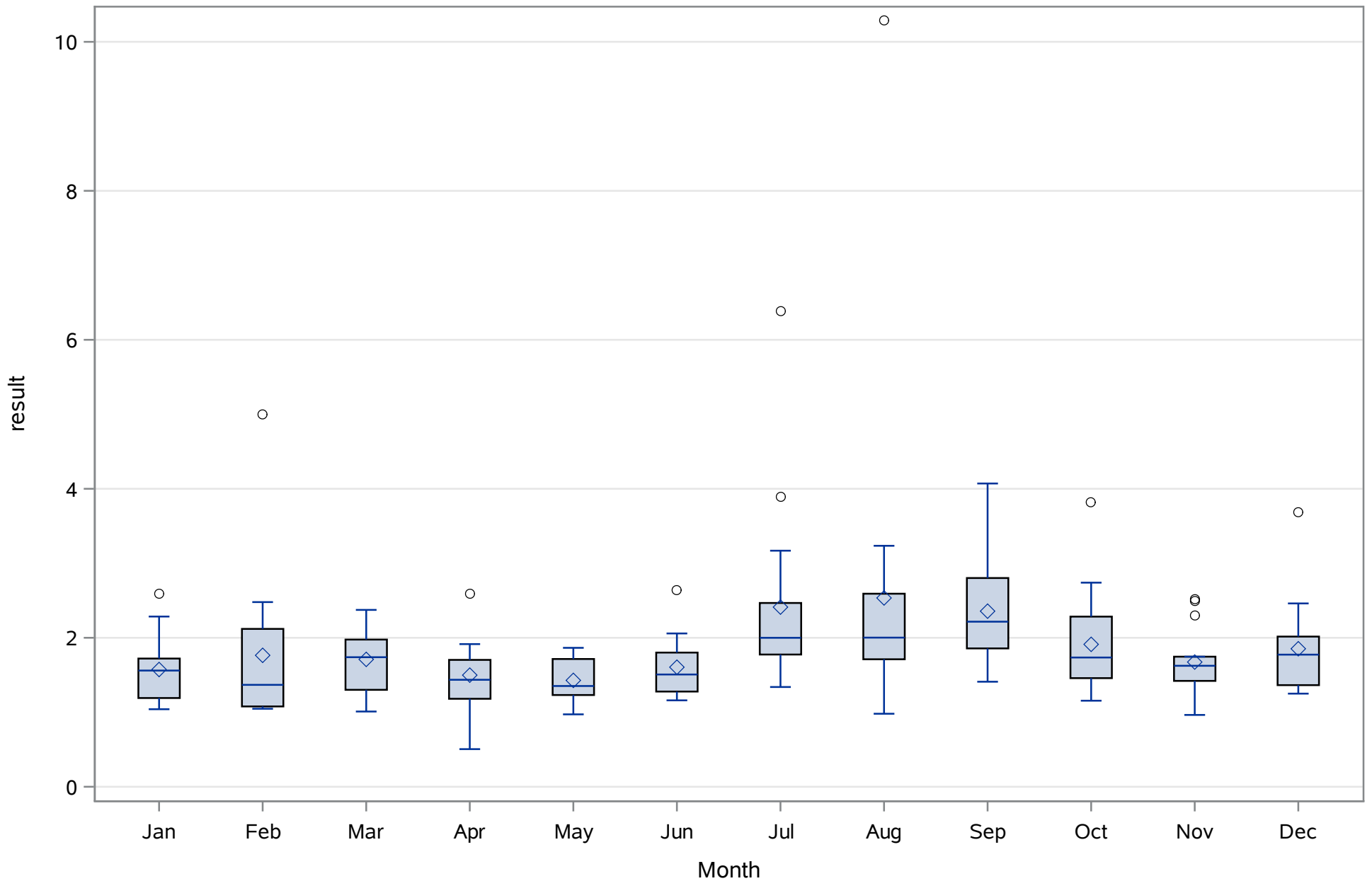
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Depth (Total) Meters



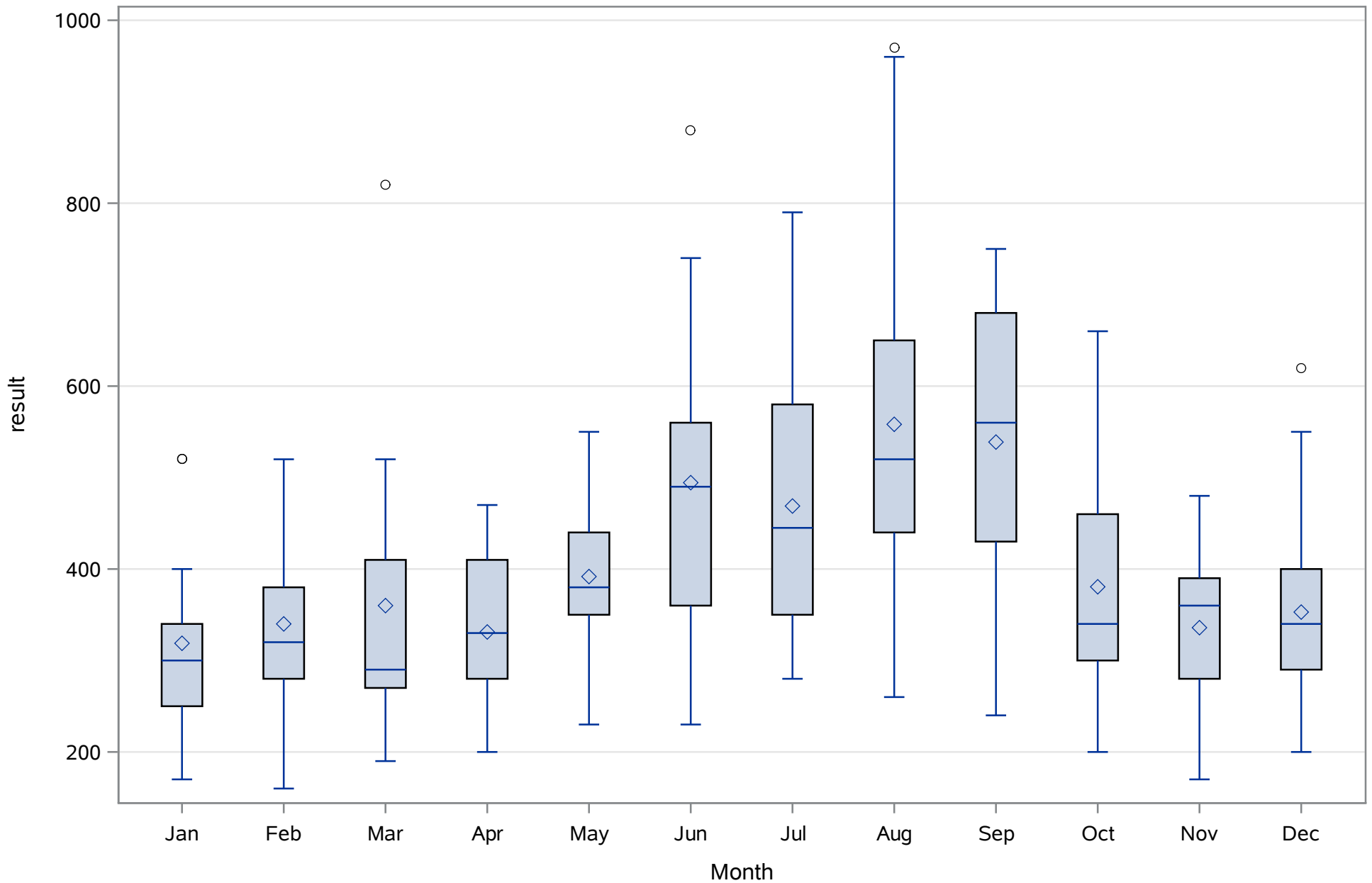
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Dissolved Oxygen (Total) mg/L



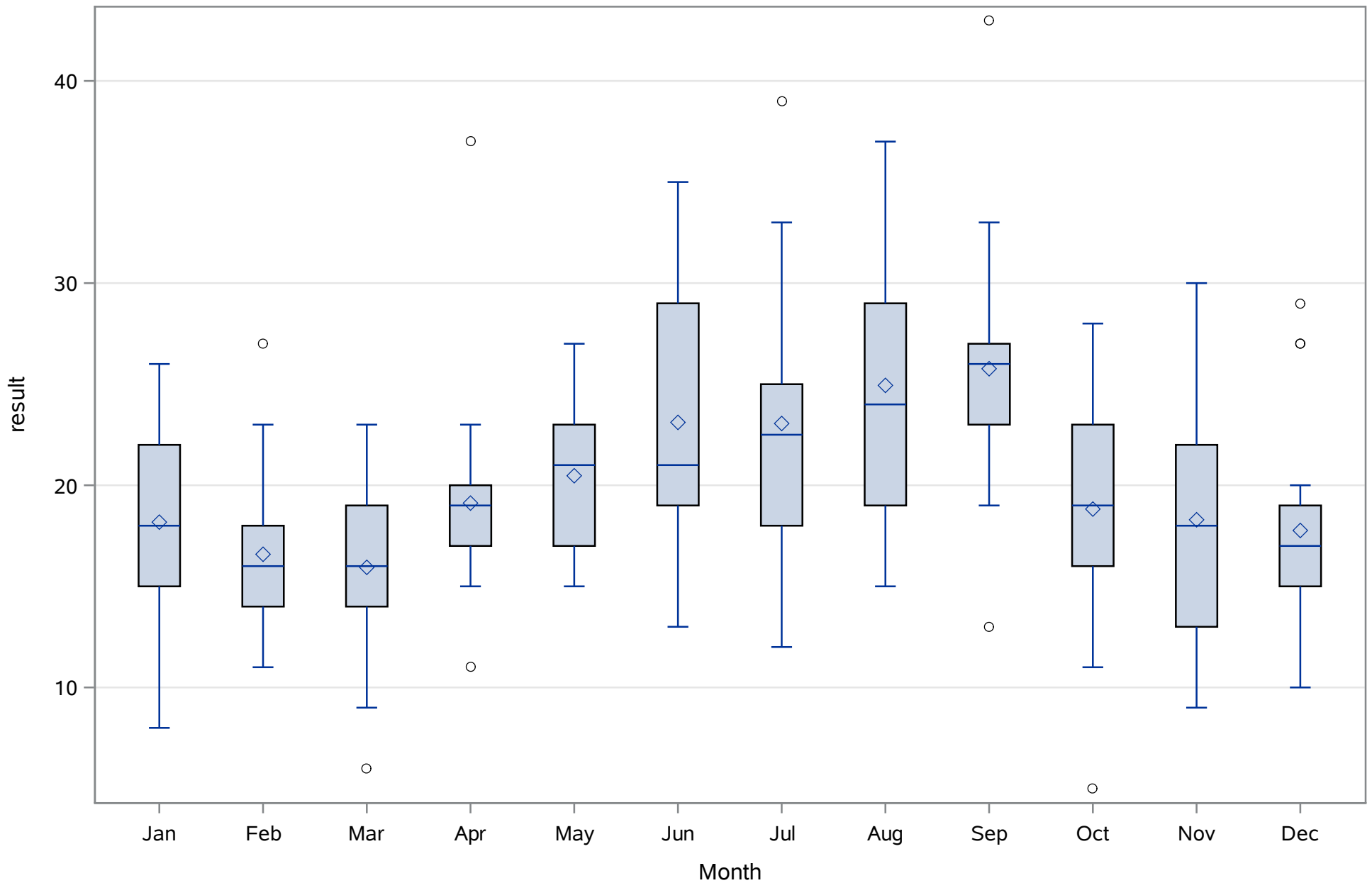
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Light, Attenuation Coefficient Kd/m



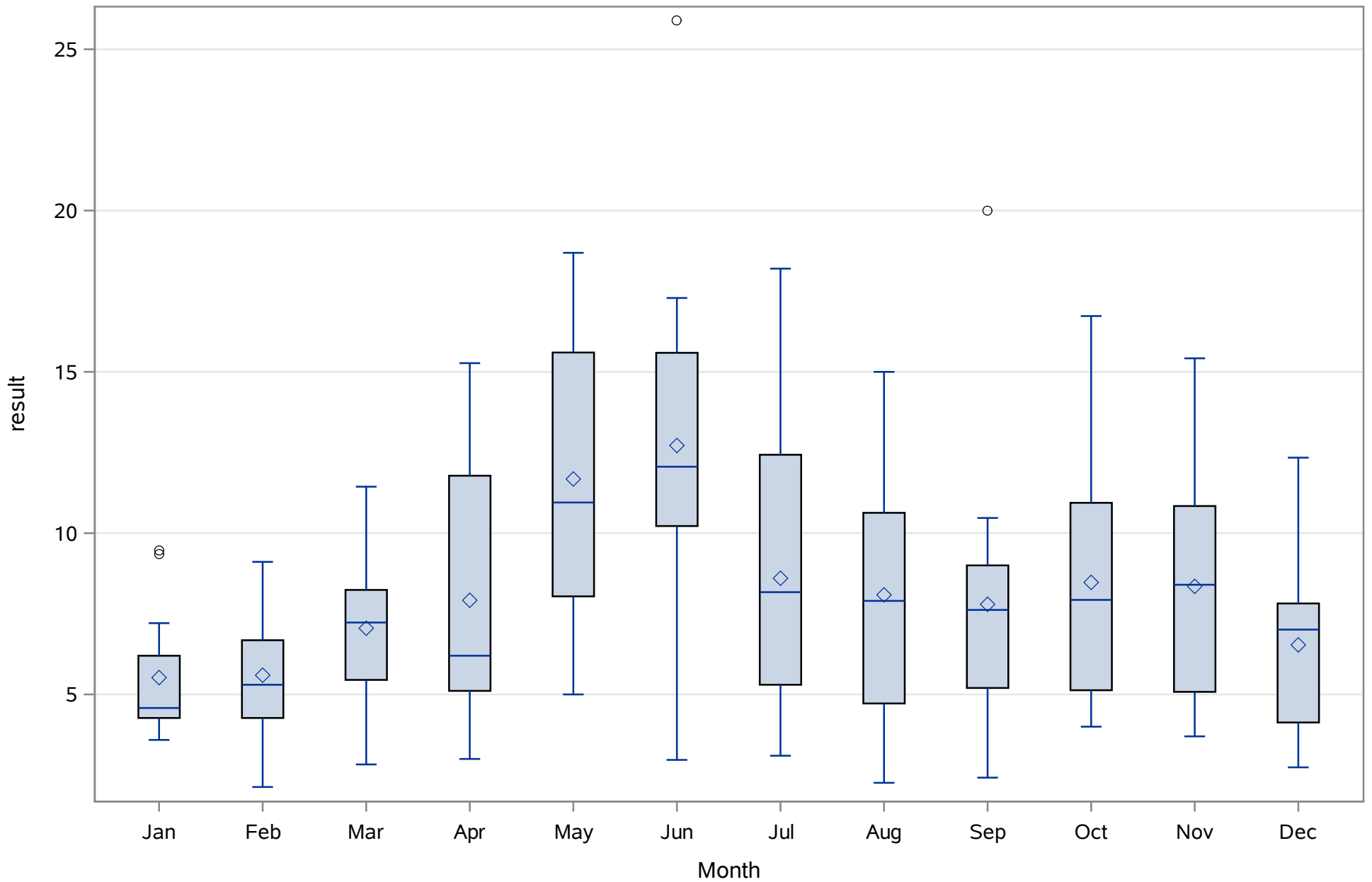
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Nitrogen- Total (Total) ug/L



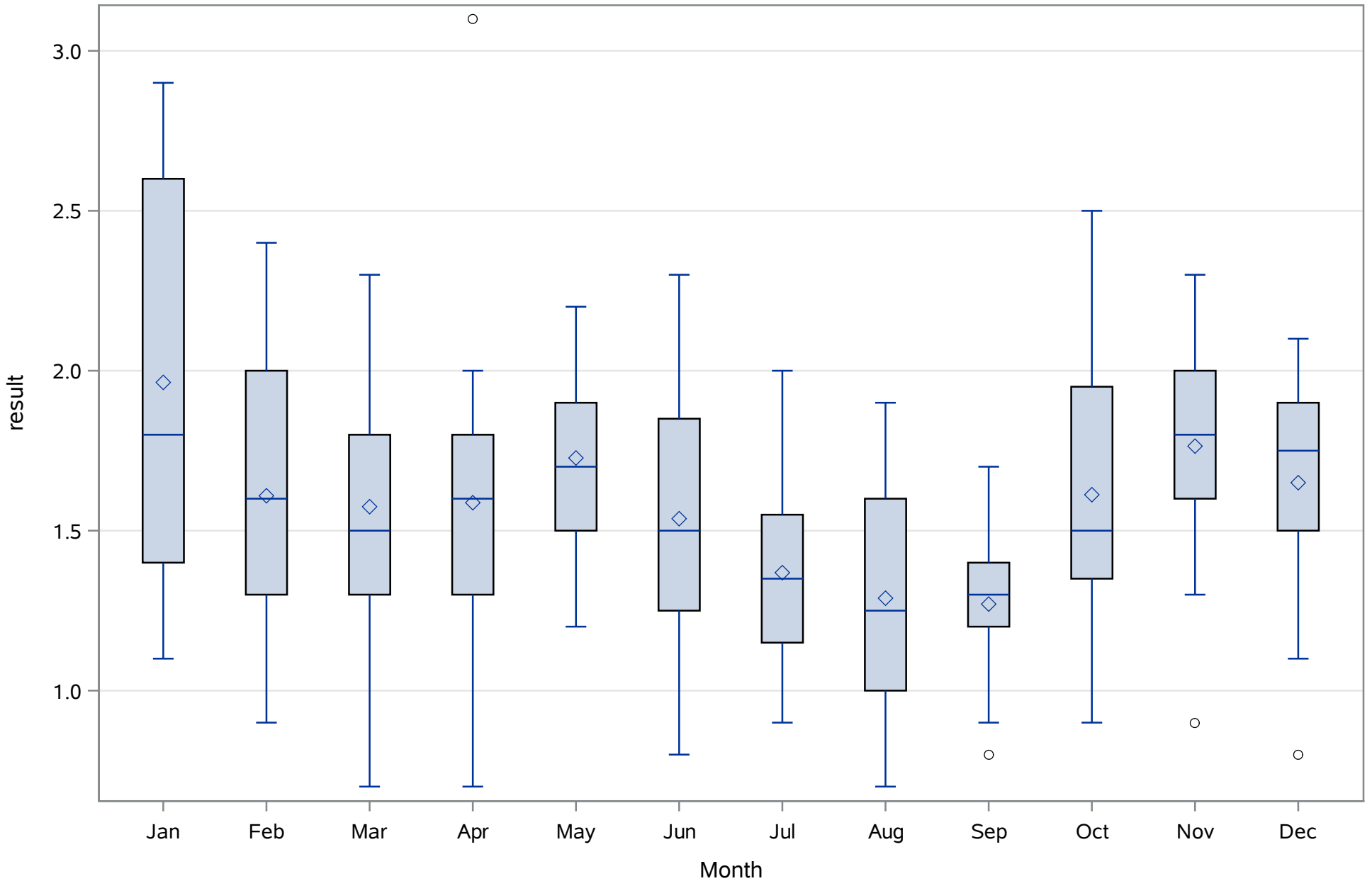
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Phosphorus- Total (Total) ug/L



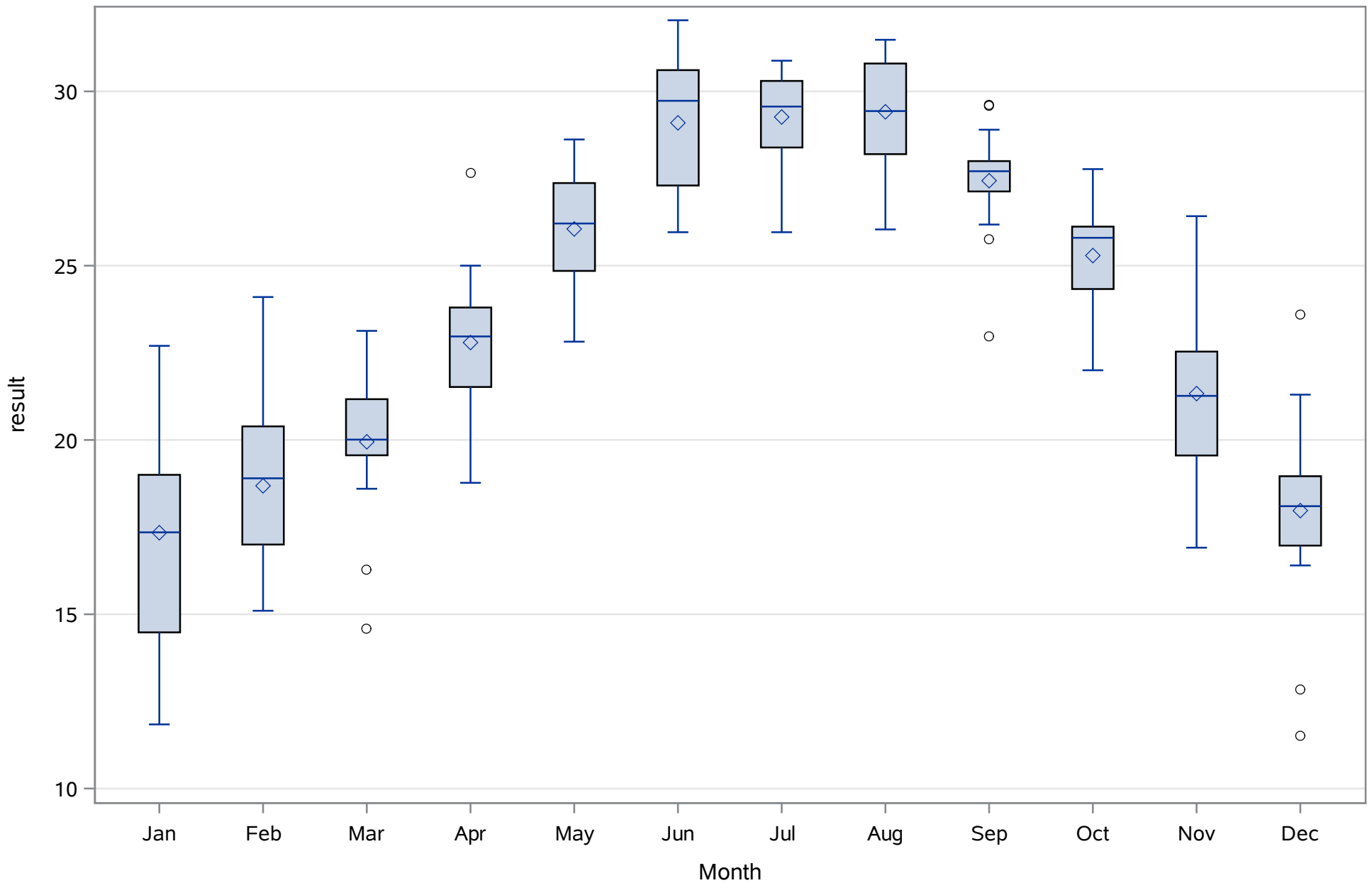
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Salinity (Total) ppth



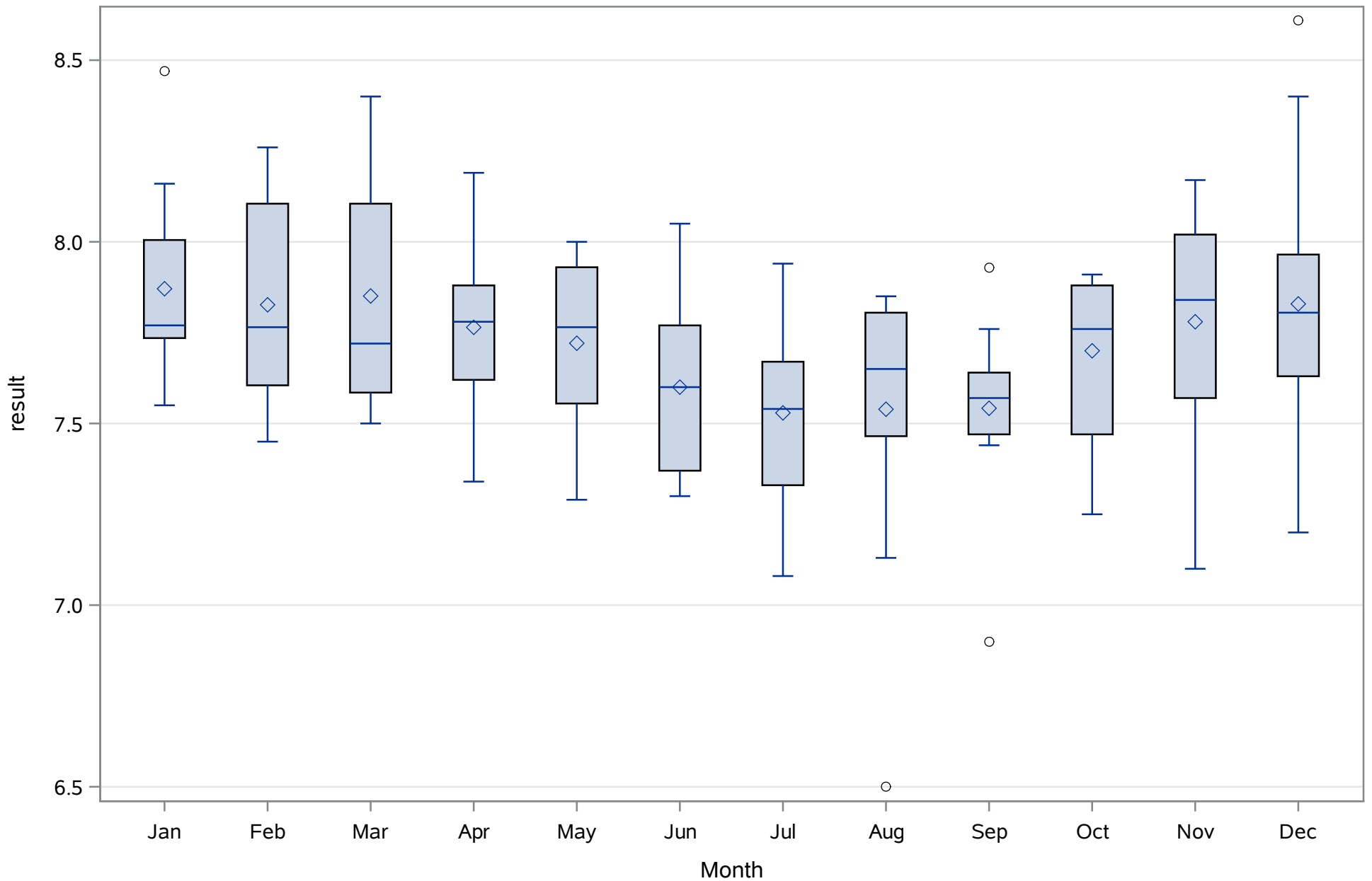
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Secchi-vertical (Total) Meters



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Citrus 3
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Inactive
Ryle Creek Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Ammonia (N) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Fluoride (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Fluoride (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Iron (Dissolved)	ug/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Magnesium (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrate (N) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrite (N) (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrogen- Organic (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Potassium (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Sodium (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Specific Conductance (Total)	uS/cm	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Sulfate (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Turbidity (Total)	NTU	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
pH (Total)	SU	OCT1993	OCT1993	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka 2 Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Ammonia (N) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Fluoride (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Fluoride (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Iron (Dissolved)	ug/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Magnesium (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrate (N) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrite (N) (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrogen- Organic (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Potassium (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Sodium (Total)	mg/L	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Specific Conductance (Total)	uS/cm	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Sulfate (Dissolved)	mg/L	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	OCT1993	OCT1993	1	0.0%	0.0%	100.0%
Turbidity (Total)	NTU	OCT1993	OCT1993	2	0.0%	0.0%	0.0%
pH (Total)	SU	OCT1993	OCT1993	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Canal 1 Site 3

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Bicarbonate (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Bromide (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Coliform Total (Total)	cfu/100 mL	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Hardness (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Magnesium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Silica- Dissolved (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Strontium (Total)	ug/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 2 WQ

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	DEC1999	OCT2000	6	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1999	OCT2000	6	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	OCT1999	SEP2000	7	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	OCT1999	AUG2000	6	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT1999	SEP2000	6	0.0%	0.0%	0.0%
Copper (Total)	ug/L	OCT1999	JUL2000	2	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	OCT1999	OCT2000	4	0.0%	0.0%	0.0%
Iron (Total)	ug/L	OCT1999	AUG2000	5	0.0%	0.0%	0.0%
Lead (Total)	ug/L	OCT1999	OCT2000	6	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	NOV1999	OCT2000	7	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1999	APR2000	4	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	SEP2000	SEP2000	1	0.0%	0.0%	100.0%
Nitrite (N) (Total)	mg/L	OCT1999	OCT2000	7	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	APR2000	OCT2000	5	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	DEC1999	MAR2000	2	0.0%	0.0%	0.0%
Orthophosphate (P) (Total)	mg/L	OCT1999	OCT2000	9	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1999	AUG2000	6	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1999	AUG2000	5	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1999	OCT2000	10	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	OCT1999	SEP2000	10	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 6 WQ

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1999	JUL2000	4	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	JUN2000	JUN2000	1	0.0%	0.0%	100.0%
Cadmium (Total)	ug/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	NOV1999	JUN2000	5	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1999	MAR2000	2	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT1999	OCT2000	7	0.0%	0.0%	0.0%
Copper (Total)	ug/L	OCT1999	SEP2000	7	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	OCT1999	AUG2000	3	0.0%	0.0%	0.0%
Iron (Total)	ug/L	OCT1999	SEP2000	8	0.0%	0.0%	0.0%
Lead (Total)	ug/L	OCT1999	JUL2000	6	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	OCT1999	AUG2000	3	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1999	MAR2000	3	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JUL2000	OCT2000	3	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	NOV1999	AUG2000	8	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	APR2000	OCT2000	3	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	NOV1999	FEB2000	2	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	MAY2000	MAY2000	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Total)	mg/L	OCT1999	OCT2000	6	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1999	JUN2000	5	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1999	SEP2000	6	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1999	OCT2000	9	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1999	AUG2000	10	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	OCT1999	OCT2000	6	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 5 WQ

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1999	AUG2000	4	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1999	MAY2000	5	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	OCT1999	OCT2000	7	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	NOV1999	JUN2000	6	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1999	OCT2000	10	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT1999	JUN2000	5	0.0%	0.0%	0.0%
Copper (Total)	ug/L	OCT1999	JUL2000	4	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	OCT1999	AUG2000	2	0.0%	0.0%	0.0%
Iron (Total)	ug/L	OCT1999	MAR2000	5	0.0%	0.0%	0.0%
Lead (Total)	ug/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	OCT1999	AUG2000	2	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1999	MAY2000	5	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	SEP2000	OCT2000	2	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	NOV1999	OCT2000	5	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	APR2000	OCT2000	3	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	NOV1999	JAN2000	3	0.0%	0.0%	0.0%
Orthophosphate (P) (Total)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1999	SEP2000	5	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1999	OCT2000	8	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1999	JUL2000	8	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	OCT1999	SEP2000	7	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Main 1

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Bicarbonate (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Bromide (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Coliform Fecal (Total)	cfu/100 mL	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Magnesium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	OCT1997	OCT1997	1	0.0%	0.0%	100.0%
Nitrogen- Total (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Silica- Dissolved (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Strontium (Total)	ug/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1997	OCT1997	2	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 300 Ft BL Crab Creek

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Total)	mg/L	OCT2002	MAY2005	11	0.0%	0.0%	0.0%
Ammonia (N) (Total)	mg/L	OCT2002	AUG2005	11	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT2002	AUG2005	11	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT2002	AUG2005	11	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT2002	MAY2005	10	0.0%	0.0%	0.0%
Chlorophyll a (Total)	ug/L	OCT2002	AUG2005	21	0.0%	0.0%	0.0%
Chlorophyll b (Total)	ug/L	OCT2002	MAY2005	9	0.0%	0.0%	0.0%
Chlorophyll c (Total)	ug/L	OCT2002	MAY2005	7	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT2002	MAY2005	11	0.0%	0.0%	9.1%
Fluoride (Total)	mg/L	OCT2002	MAY2005	10	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	OCT2002	MAY2005	10	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	JAN2003	MAY2005	8	0.0%	0.0%	0.0%
Nitrite (N) (Total)	mg/L	OCT2002	AUG2005	10	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	OCT2002	MAY2005	10	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT2002	AUG2005	11	0.0%	0.0%	0.0%
Phaeophytin (Total)	ug/L	OCT2002	AUG2005	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT2002	MAY2005	10	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	OCT2002	AUG2005	11	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT2002	AUG2005	10	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT2002	AUG2005	12	0.0%	0.0%	0.0%
Sodium (Dissolved)	mg/L	OCT2002	MAY2005	10	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	JAN2003	JAN2003	1	0.0%	0.0%	100.0%
Sulfate (Dissolved)	mg/L	OCT2002	MAY2005	11	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT2002	AUG2005	12	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 300 Ft BL Crab Creek
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	21	Sum Weights	21
Mean	1.70142857	Sum Observations	35.73
Std Deviation	0.64401309	Variance	0.41475286
Skewness	0.68748873	Kurtosis	-0.7829744
Uncorrected SS	69.0871	Corrected SS	8.29505714
Coeff Variation	37.851315	Std Error Mean	0.14053518

Basic Statistical Measures			
Location		Variability	
Mean	1.701429	Std Deviation	0.64401
Median	1.520000	Variance	0.41475
Mode	1.000000	Range	1.90000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.10678	Pr > t 	<.0001
Sign	M	10.5	Pr >= M 	<.0001
Signed Rank	S	115.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.90
99%	2.90
95%	2.80
90%	2.80
75% Q3	2.10
50% Median	1.52
25% Q1	1.10
10%	1.00
5%	1.00
1%	1.00
0% Min	1.00

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 300 Ft BL Crab Creek
Chlorophyll a (Total) ug/L

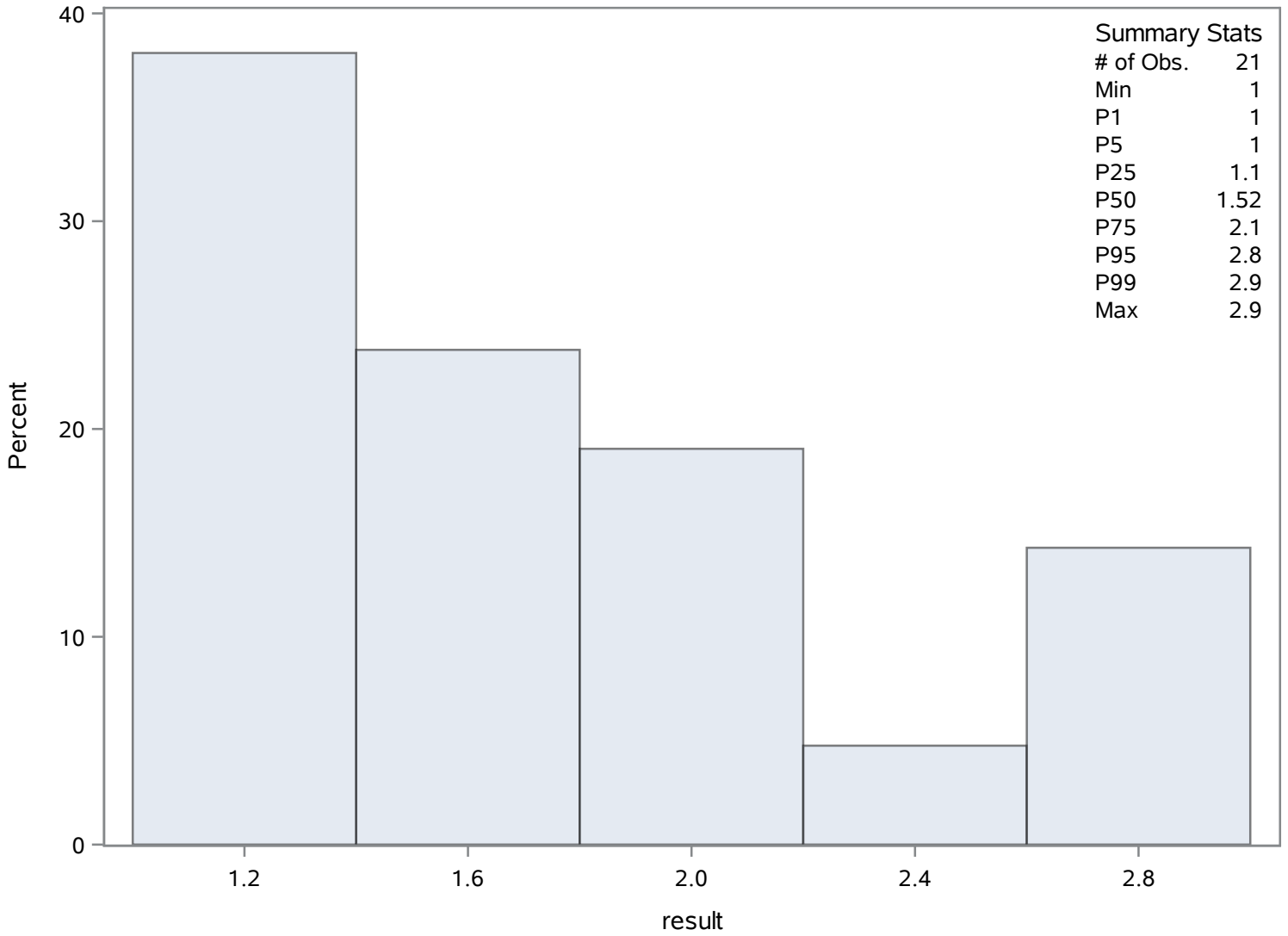
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	16	2.11	1
1.00	14	2.59	7
1.00	10	2.80	12
1.02	3	2.80	21
1.10	15	2.90	17

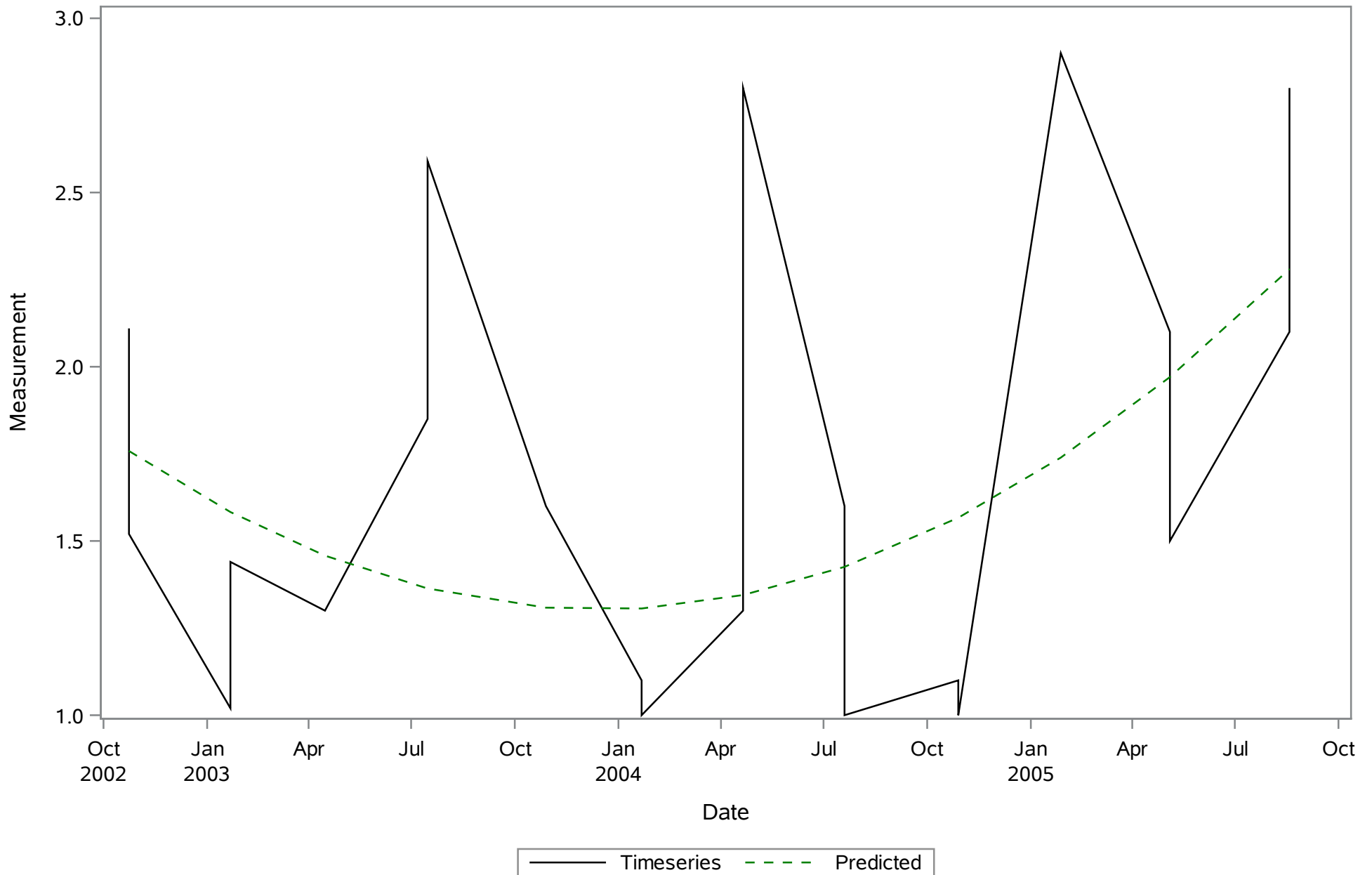
Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 300 Ft BL Crab Creek
Chlorophyll a (Total) ug/L

The UNIVARIATE Procedure

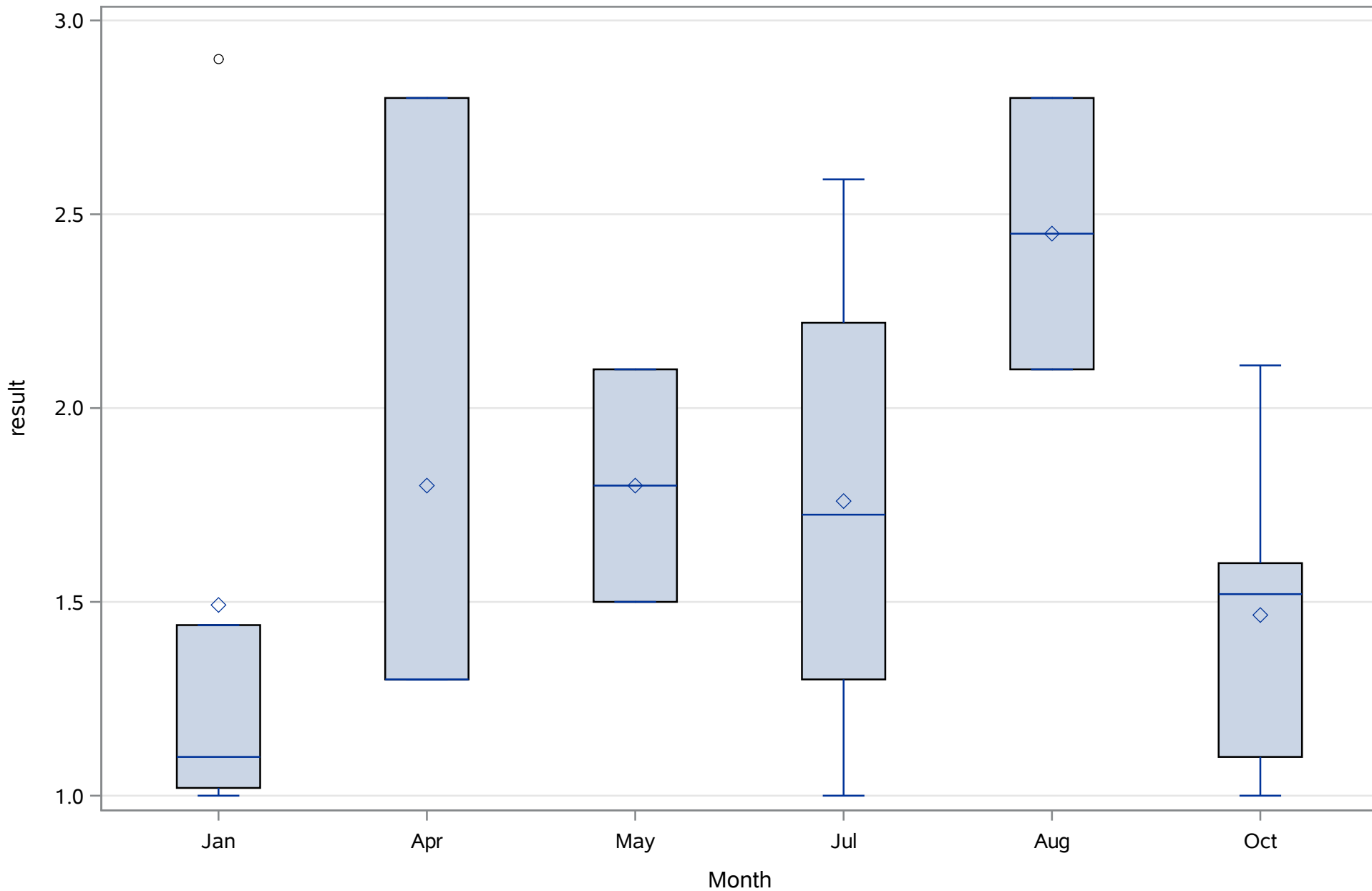
Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 300 Ft BL Crab Creek
Chlorophyll a (Total) ug/L



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 300 Ft BL Crab Creek
Chlorophyll a (Total) ug/L



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Dissolved)	mg/L	MAY1992	DEC1999	13	0.0%	0.0%	0.0%
Alkalinity (Total)	mg/L	MAY1992	MAR2011	12	0.0%	0.0%	0.0%
Alkalinity as CaCO3 (Total)	mg/L	FEB1994	FEB1994	1	0.0%	0.0%	100.0%
Ammonia (N) (Dissolved)	mg/L	OCT1994	OCT1994	2	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	MAY1993	DEC1998	4	0.0%	0.0%	0.0%
Bromide (Dissolved)	mg/L	DEC1991	DEC1998	9	0.0%	0.0%	0.0%
Bromide (Total)	mg/L	MAY1992	DEC1998	7	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	MAY1992	MAR2011	25	0.0%	0.0%	0.0%
Calcium (Total)	mg/L	DEC1998	DEC1998	1	0.0%	0.0%	100.0%
Carbon- Inorganic (Total)	mg/L	MAY1992	MAY1992	1	0.0%	0.0%	100.0%
Carbon- Total Organic (Total)	mg/L	MAY1992	OCT1994	3	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	DEC1991	MAR2011	28	0.0%	0.0%	0.0%
Depth to Water (from mpe) (Total)	Ft.	FEB1997	MAR2011	6	0.0%	0.0%	0.0%
Fluoride (Dissolved)	mg/L	OCT1994	OCT1994	1	0.0%	0.0%	100.0%
Fluoride (Total)	mg/L	OCT1994	OCT1994	1	0.0%	0.0%	100.0%
Hardness (Total)	mg/L	MAY1992	DEC2000	16	0.0%	0.0%	0.0%
Iodide (Total)	mg/L	FEB1994	FEB1994	2	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	MAY1992	MAR2011	25	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	MAY1992	MAR2011	18	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	FEB1994	DEC2000	8	0.0%	0.0%	0.0%
Nitrate (N) (Dissolved)	mg/L	OCT1994	OCT1994	1	0.0%	0.0%	100.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	OCT1994	OCT1994	2	0.0%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	OCT1994	OCT1994	1	0.0%	0.0%	100.0%
Nitrogen- Organic (Dissolved)	mg/L	OCT1994	OCT1994	1	0.0%	0.0%	100.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	OCT1994	OCT1994	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1994	OCT1994	2	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1994	OCT1994	2	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	MAY1992	MAR2011	18	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	MAY1992	DEC1998	8	0.0%	0.0%	0.0%
Purge Volume (Total)	Gallons	FEB1997	MAR2011	9	0.0%	0.0%	0.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	DEC1991	MAR2011	29	0.0%	0.0%	0.0%
Silica- Dissolved (Dissolved)	mg/L	MAY1992	DEC2004	14	0.0%	0.0%	0.0%
Silica- Dissolved (Total)	mg/L	MAY1992	MAR2011	15	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Sodium (Dissolved)	mg/L	MAY1992	MAR2011	18	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	MAY1992	DEC1999	9	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	DEC1991	MAR2011	38	0.0%	0.0%	0.0%
Strontium (Dissolved)	mg/L	DEC2005	MAR2011	3	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	MAR1996	DEC2004	10	0.0%	0.0%	0.0%
Strontium (Total)	ug/L	MAR1996	DEC1999	4	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	DEC1991	MAR2011	28	3.6%	0.0%	0.0%
Temperature (Total)	Deg. C	DEC1991	MAR2011	20	15.0%	0.0%	5.0%
Turbidity (Total)	FTU	OCT1994	OCT1994	1	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1994	OCT1994	1	0.0%	0.0%	0.0%
pH (Total)	SU	DEC1991	MAR2011	20	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Calcium (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	64.4548	Sum Observations	1611.37
Std Deviation	17.8838449	Variance	319.831909
Skewness	0.45766396	Kurtosis	0.05435309
Uncorrected SS	111536.497	Corrected SS	7675.96582
Coeff Variation	27.7463353	Std Error Mean	3.57676899

Basic Statistical Measures			
Location		Variability	
Mean	64.45480	Std Deviation	17.88384
Median	66.00000	Variance	319.83191
Mode	36.00000	Range	70.00000
		Interquartile Range	20.00000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.0204	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	106
99%	106
95%	93
90%	93
75% Q3	72
50% Median	66
25% Q1	52
10%	44
5%	36

Chassahowitzka River - Fixed Station

Source: Inactive

HRS 19A Zollinger FLDN

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	36
0% Min	36

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
36	10	74.60	20
36	9	89.37	19
44	6	93.00	7
44	5	93.00	8
45	18	106.00	25

Chassahowitzka River - Fixed Station

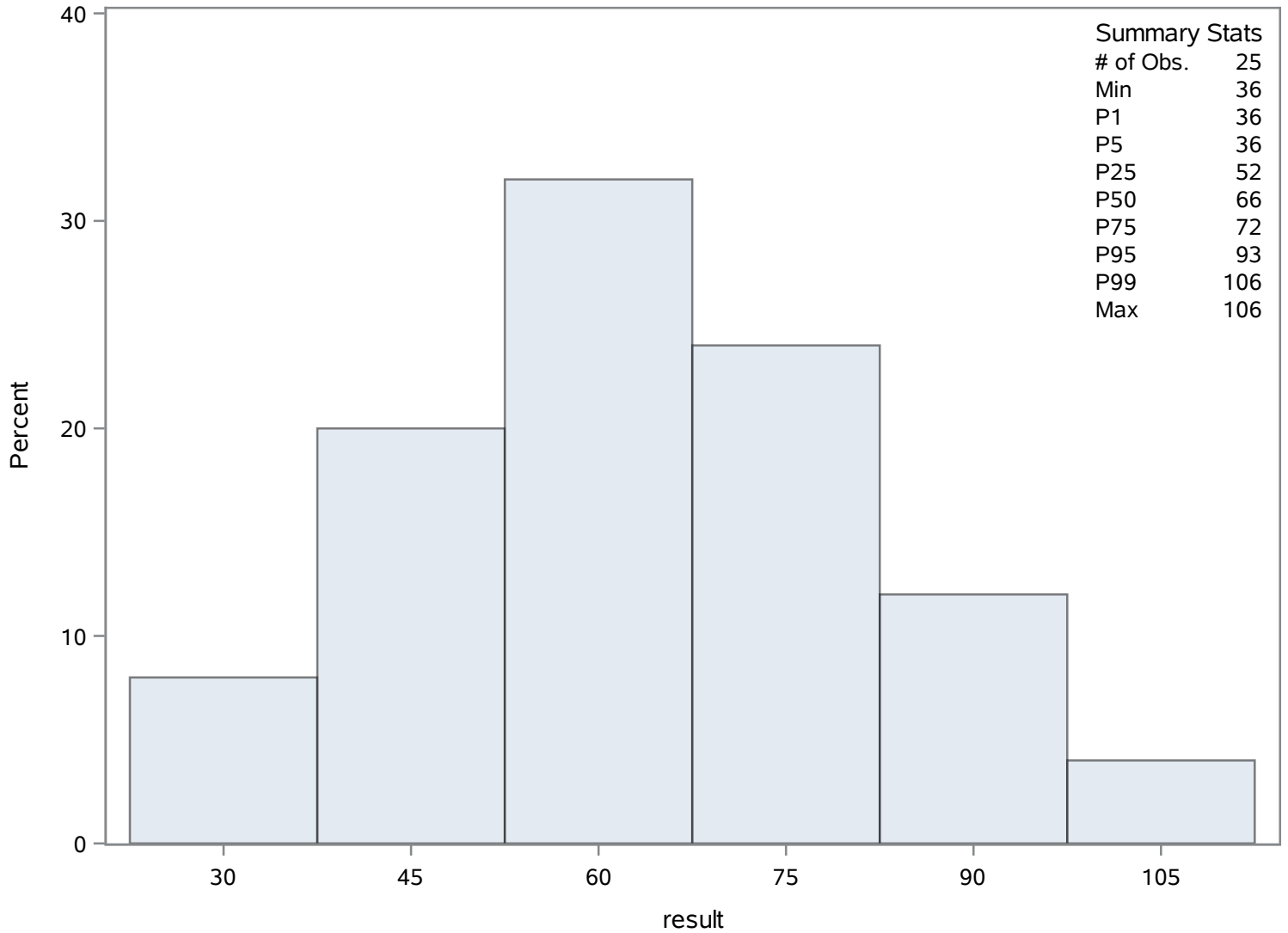
Source: Inactive

HRS 19A Zollinger FLDN

Calcium (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	28	Sum Weights	28
Mean	922.820357	Sum Observations	25838.97
Std Deviation	384.897414	Variance	148146.019
Skewness	-0.2540537	Kurtosis	-0.3951753
Uncorrected SS	27844670	Corrected SS	3999942.52
Coeff Variation	41.7088126	Std Error Mean	72.7387741

Basic Statistical Measures			
Location		Variability	
Mean	922.8204	Std Deviation	384.89741
Median	884.5000	Variance	148146
Mode	762.0000	Range	1536
		Interquartile Range	600.39500

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.68677	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1540.000
99%	1540.000
95%	1540.000
90%	1407.000
75% Q3	1226.500
50% Median	884.500
25% Q1	626.105
10%	431.000
5%	403.000

Chassahowitzka River - Fixed Station

Source: Inactive

HRS 19A Zollinger FLDN
Chloride (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	4.000
0% Min	4.000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	30	1340	53
403	41	1407	37
431	52	1407	38
502	51	1540	35
522	45	1540	36

Chassahowitzka River - Fixed Station

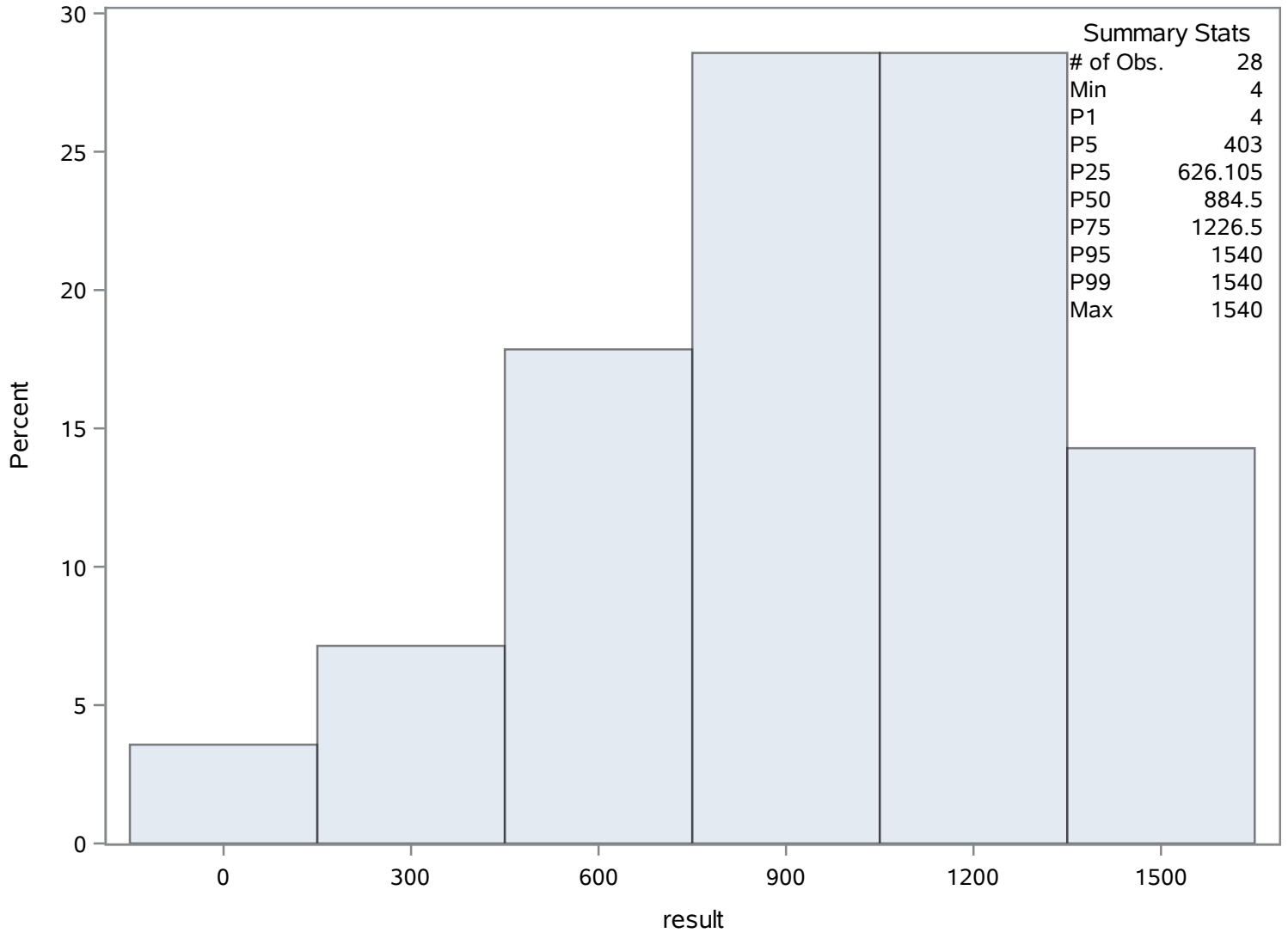
Source: Inactive

HRS 19A Zollinger FLDN

Chloride (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Iron (Dissolved) ug/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	25	Sum Weights	25
Mean	271.415996	Sum Observations	6785.3999
Std Deviation	270.211219	Variance	73014.1026
Skewness	1.17924211	Kurtosis	0.61797208
Uncorrected SS	3594004.53	Corrected SS	1752338.46
Coeff Variation	99.556114	Std Error Mean	54.0422437

Basic Statistical Measures			
Location		Variability	
Mean	271.4160	Std Deviation	270.21122
Median	170.0000	Variance	73014
Mode	30.0000	Range	896.00000
		Interquartile Range	328.00000

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	5.022293	Pr > t 	<.0001
Sign	M	12.5	Pr >= M 	<.0001
Signed Rank	S	162.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	912.0000
99%	912.0000
95%	912.0000
90%	648.0000
75% Q3	391.0000
50% Median	170.0000
25% Q1	63.0000
10%	25.8999
5%	25.0000

Chassahowitzka River - Fixed Station

Source: Inactive

HRS 19A Zollinger FLDN

Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	16.0000
0% Min	16.0000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
16.0000	59	570	54
25.0000	63	570	55
25.8999	74	648	66
27.7000	76	912	67
30.0000	62	912	68

Chassahowitzka River - Fixed Station

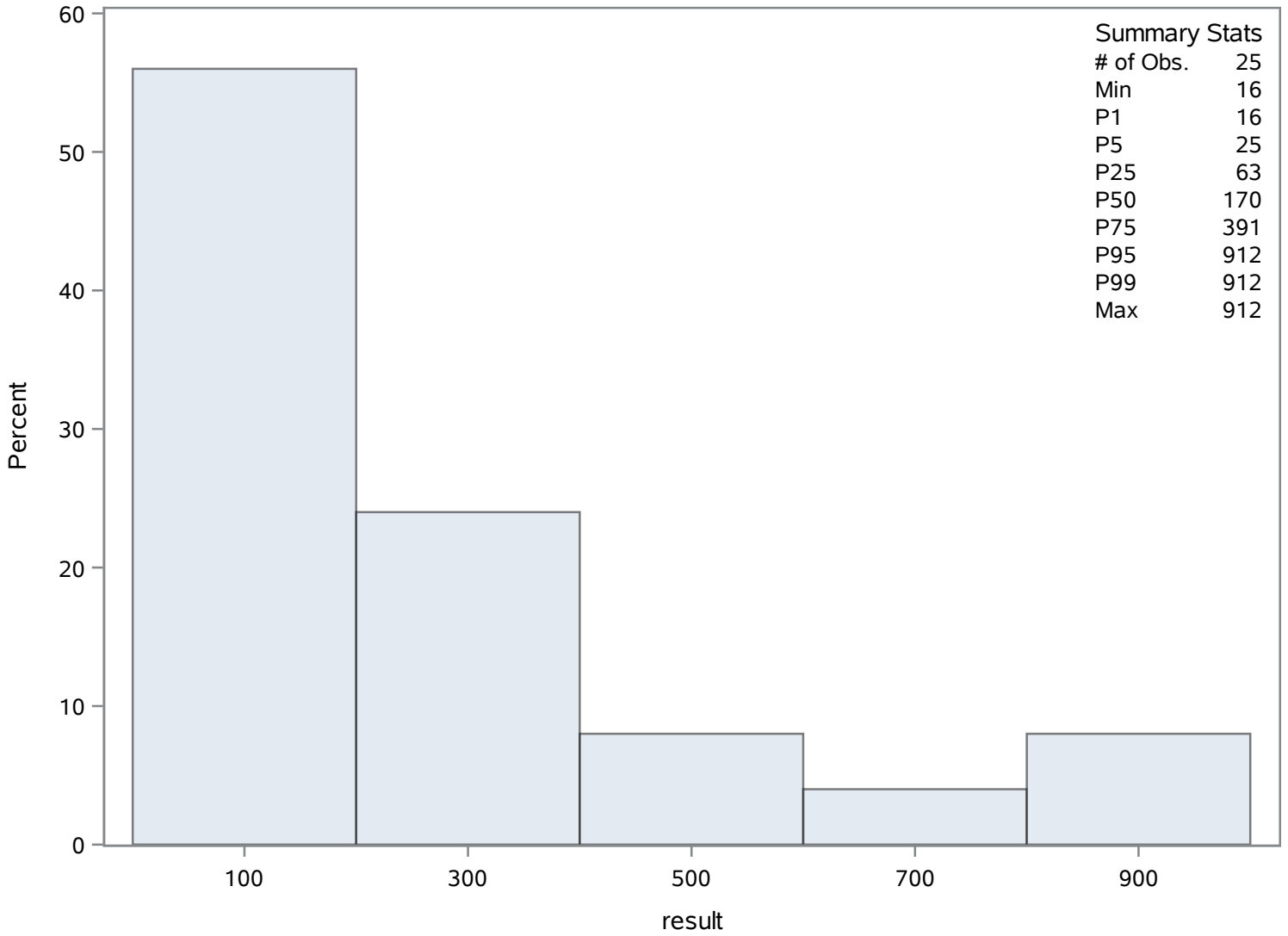
Source: Inactive

HRS 19A Zollinger FLDN

Iron (Dissolved) ug/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

Moments			
N	29	Sum Weights	29
Mean	1794.58621	Sum Observations	52043
Std Deviation	592.428809	Variance	350971.894
Skewness	0.26540926	Kurtosis	-1.1344805
Uncorrected SS	103222863	Corrected SS	9827213.03
Coeff Variation	33.0120006	Std Error Mean	110.011268

Basic Statistical Measures			
Location		Variability	
Mean	1794.586	Std Deviation	592.42881
Median	1690.000	Variance	350972
Mode	1334.000	Range	1968
		Interquartile Range	1087

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.31275	Pr > t 	<.0001
Sign	M	14.5	Pr >= M 	<.0001
Signed Rank	S	217.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2836
99%	2836
95%	2836
90%	2580
75% Q3	2421
50% Median	1690
25% Q1	1334
10%	1077
5%	926

Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure
Variable: result

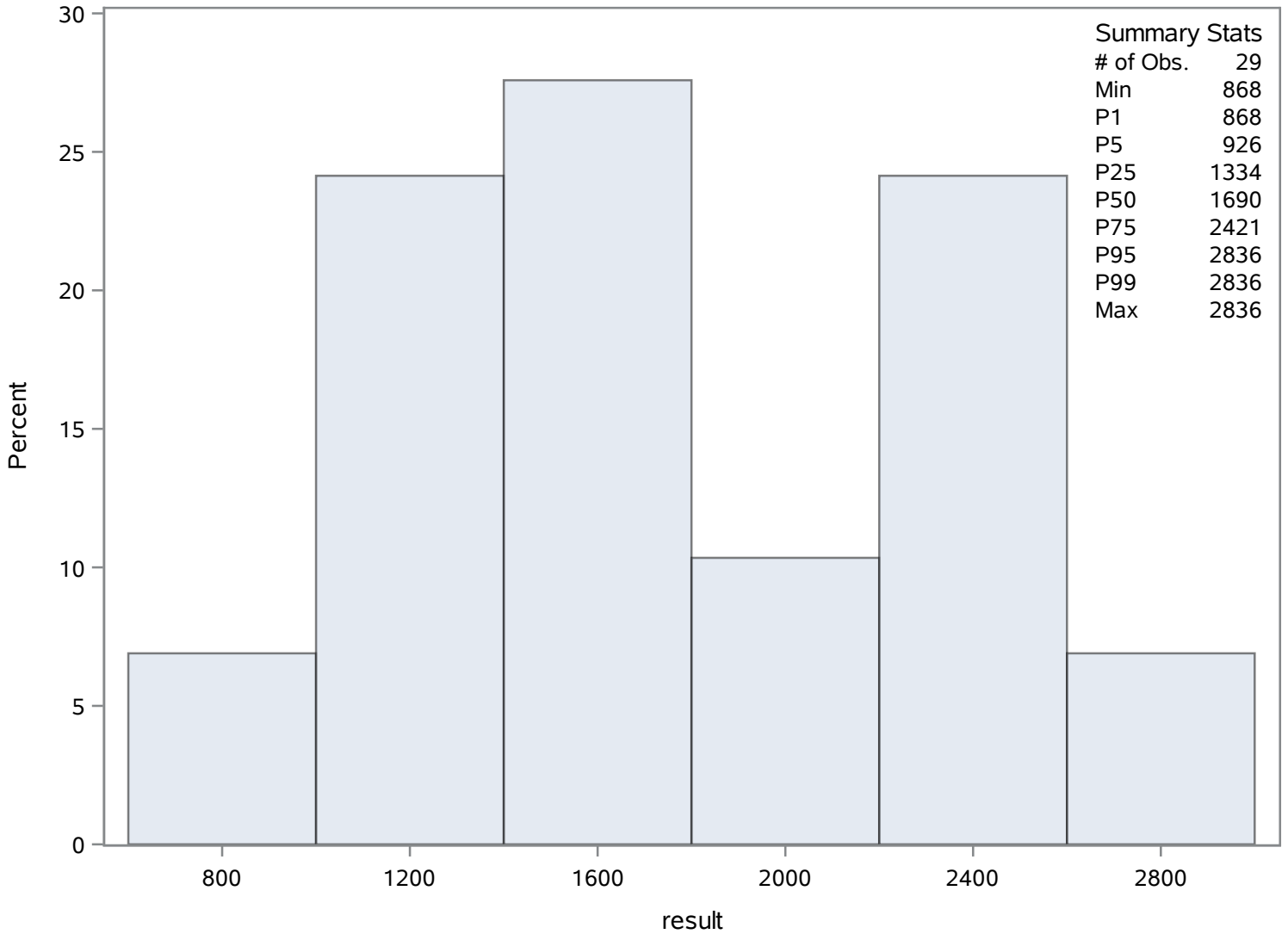
Quantiles (Definition 5)	
Level	Quantile
1%	868
0% Min	868

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
868	95	2489	92
926	106	2491	101
1077	99	2580	107
1090	105	2836	89
1107	98	2836	90

Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Residues- Filterable (TDS) (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	38	Sum Weights	38
Mean	3169.52632	Sum Observations	120442
Std Deviation	1066.1012	Variance	1136571.77
Skewness	0.39647787	Kurtosis	-0.9957987
Uncorrected SS	423797244	Corrected SS	42053155.5
Coeff Variation	33.6359788	Std Error Mean	172.944452

Basic Statistical Measures			
Location		Variability	
Mean	3169.526	Std Deviation	1066
Median	2965.000	Variance	1136572
Mode	2910.000	Range	3778
		Interquartile Range	1660

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.32685	Pr > t 	<.0001
Sign	M	19	Pr >= M 	<.0001
Signed Rank	S	370.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5420
99%	5420
95%	4856
90%	4800
75% Q3	3970
50% Median	2965
25% Q1	2310
10%	1796
5%	1709

Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1642
0% Min	1642

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1642	122	4700	118
1709	121	4800	117
1759	143	4800	145
1796	142	4856	144
1994	129	5420	116

Chassahowitzka River - Fixed Station

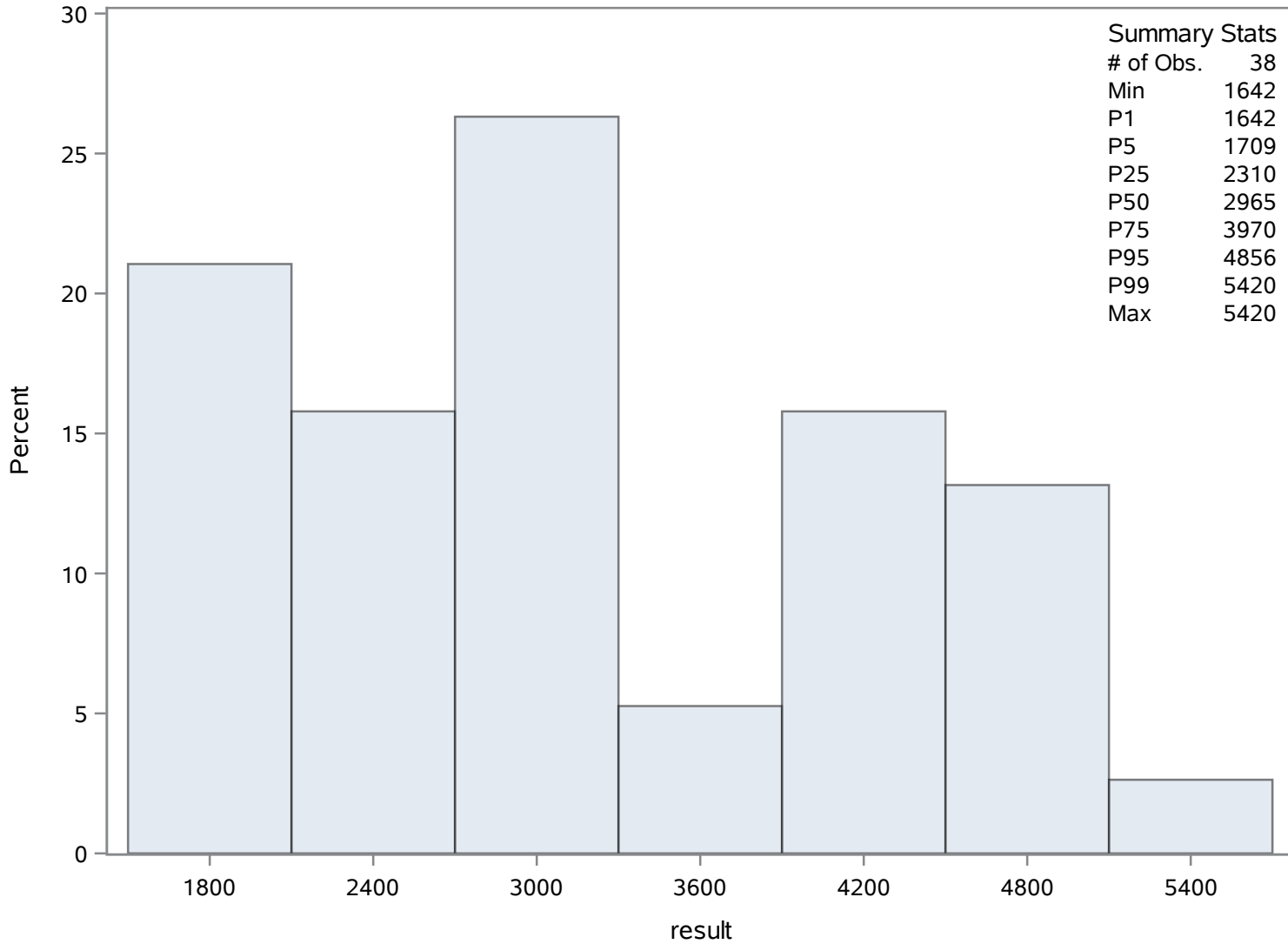
Source: Inactive

HRS 19A Zollinger FLDN

Specific Conductance (Total) uS/cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: Inactive

HRS 19A Zollinger FLDN

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Variable: result

Moments			
N	28	Sum Weights	28
Mean	112.623571	Sum Observations	3153.46
Std Deviation	48.2584414	Variance	2328.87716
Skewness	0.16819892	Kurtosis	0.11060859
Uncorrected SS	418033.611	Corrected SS	62879.6834
Coeff Variation	42.8493261	Std Error Mean	9.11998818

Basic Statistical Measures			
Location		Variability	
Mean	112.6236	Std Deviation	48.25844
Median	112.0000	Variance	2329
Mode	70.7000	Range	206.00000
		Interquartile Range	65.85000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.34909	Pr > t 	<.0001
Sign	M	14	Pr >= M 	<.0001
Signed Rank	S	203	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	211.00
99%	211.00
95%	211.00
90%	172.07
75% Q3	147.50
50% Median	112.00
25% Q1	81.65
10%	51.10
5%	42.80

Chassahowitzka River - Fixed Station

Source: Inactive

HRS 19A Zollinger FLDN

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	5.00
0% Min	5.00

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.0	150	162.00	168
42.8	166	171.00	173
51.1	172	172.07	167
70.7	163	211.00	155
70.7	162	211.00	156

Chassahowitzka River - Fixed Station

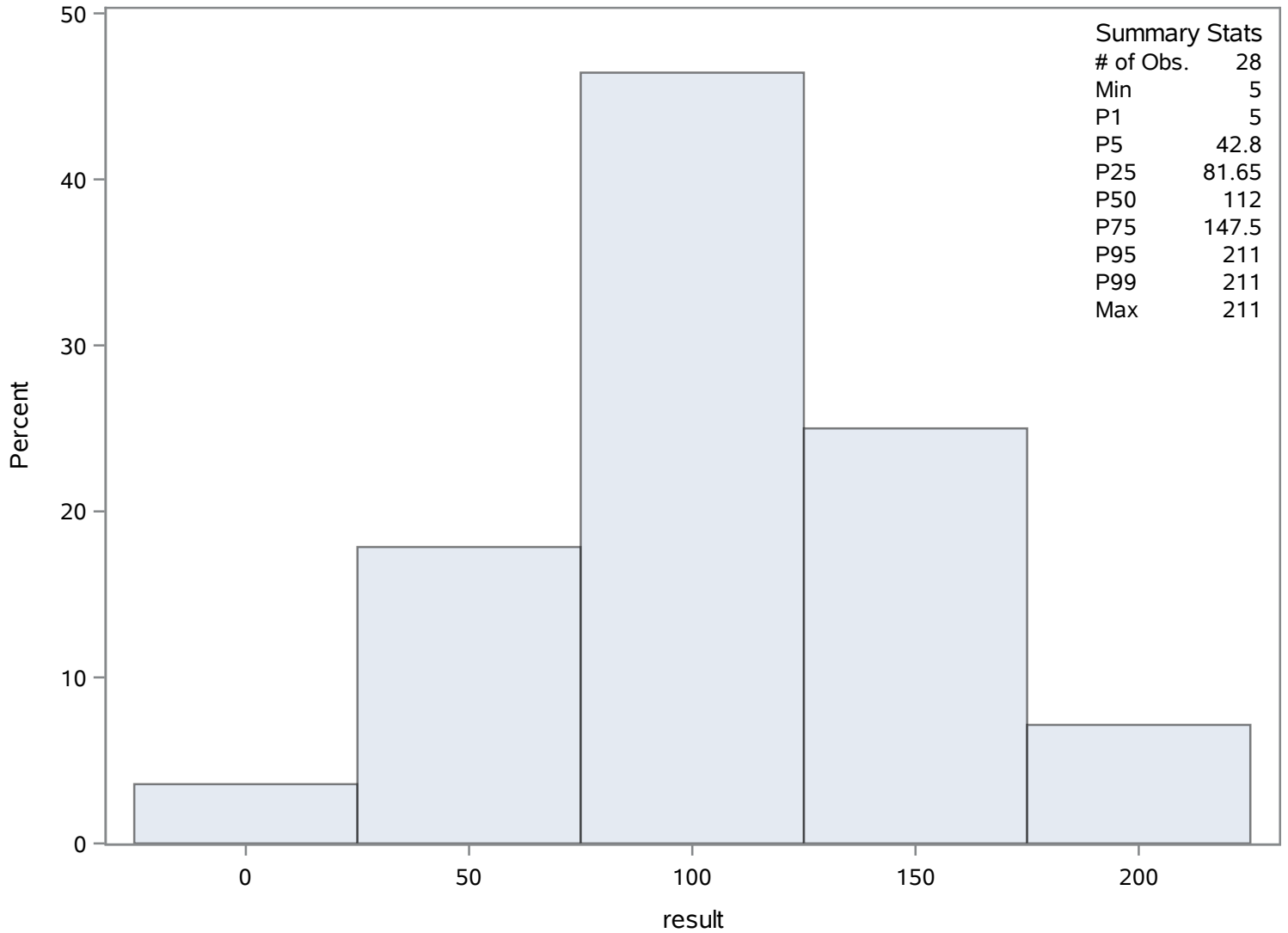
Source: Inactive

HRS 19A Zollinger FLDN

Sulfate (Dissolved) mg/L

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Temperature (Total) Deg. C

The UNIVARIATE Procedure
Variable: result

Moments			
N	20	Sum Weights	20
Mean	22.381995	Sum Observations	447.6399
Std Deviation	2.56167216	Variance	6.56216423
Skewness	-2.5619493	Kurtosis	6.46591722
Uncorrected SS	10143.7551	Corrected SS	124.68112
Coeff Variation	11.445236	Std Error Mean	0.57280731

Basic Statistical Measures			
Location		Variability	
Mean	22.38200	Std Deviation	2.56167
Median	23.35495	Variance	6.56216
Mode	23.40000	Range	10.20000
		Interquartile Range	0.45000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	39.07421	Pr > t 	<.0001
Sign	M	10	Pr >= M 	<.0001
Signed Rank	S	105	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.0000
99%	24.0000
95%	24.0000
90%	23.8500
75% Q3	23.5000
50% Median	23.3550
25% Q1	23.0500
10%	18.4000
5%	16.0000
1%	13.8000
0% Min	13.8000

Chassahowitzka River - Fixed Station

Source: Inactive

HRS 19A Zollinger FLDN

Temperature (Total) Deg. C

The UNIVARIATE Procedure

Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.8	178	23.5	187
18.2	180	23.6	179
18.6	176	23.7	177
22.0	186	24.0	174
23.0	183	24.0	182

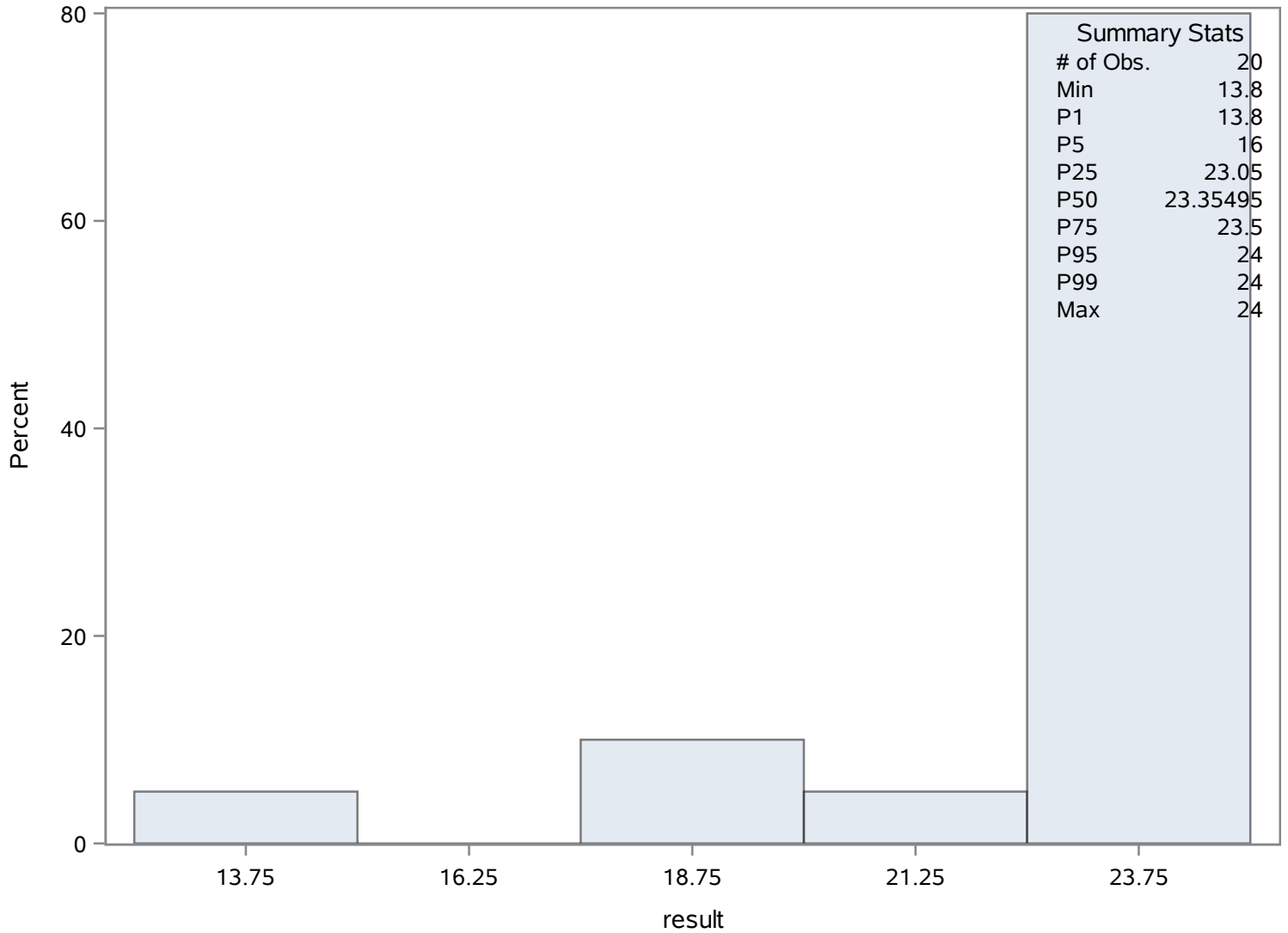
Chassahowitzka River - Fixed Station

Source: Inactive

HRS 19A Zollinger FLDN
Temperature (Total) Deg. C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Moments			
N	20	Sum Weights	20
Mean	7.925495	Sum Observations	158.5099
Std Deviation	0.50475643	Variance	0.25477906
Skewness	0.81896247	Kurtosis	-0.8226854
Uncorrected SS	1261.11022	Corrected SS	4.84080211
Coeff Variation	6.36876857	Std Error Mean	0.11286697

Basic Statistical Measures			
Location		Variability	
Mean	7.925495	Std Deviation	0.50476
Median	7.700000	Variance	0.25478
Mode	7.490000	Range	1.54010
		Interquartile Range	0.84500

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	70.21979	Pr > t 	<.0001
Sign	M	10	Pr >= M 	<.0001
Signed Rank	S	105	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.93000
99%	8.93000
95%	8.84500
90%	8.74000
75% Q3	8.38500
50% Median	7.70000
25% Q1	7.54000
10%	7.45000
5%	7.39995

Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
pH (Total) SU

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	7.38990
0% Min	7.38990

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.3899	209	8.49	197
7.4100	213	8.50	196
7.4900	208	8.72	206
7.4900	199	8.76	198
7.5300	210	8.93	200

Chassahowitzka River - Fixed Station

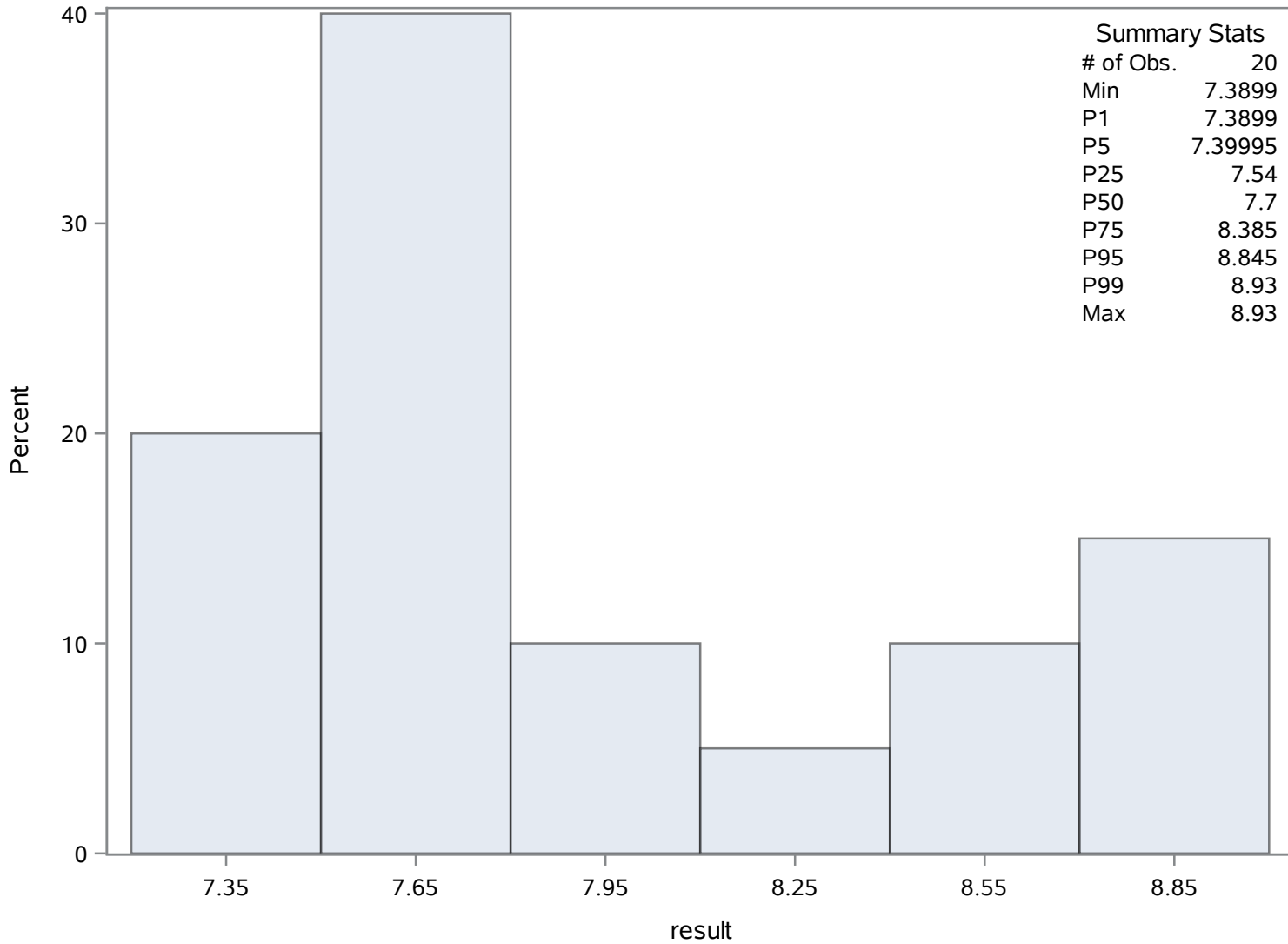
Source: Inactive

HRS 19A Zollinger FLDN

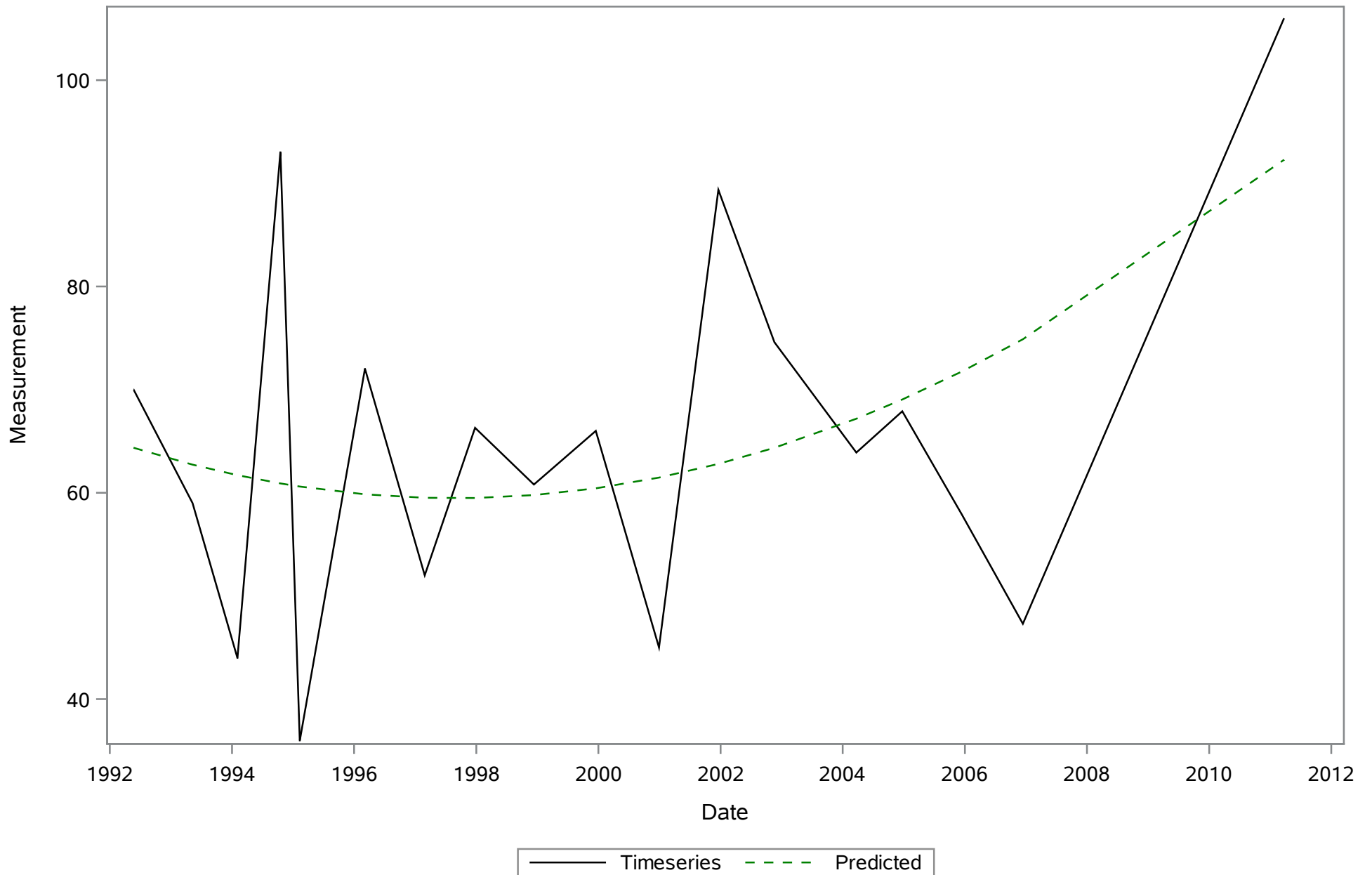
pH (Total) SU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Calcium (Dissolved) mg/L

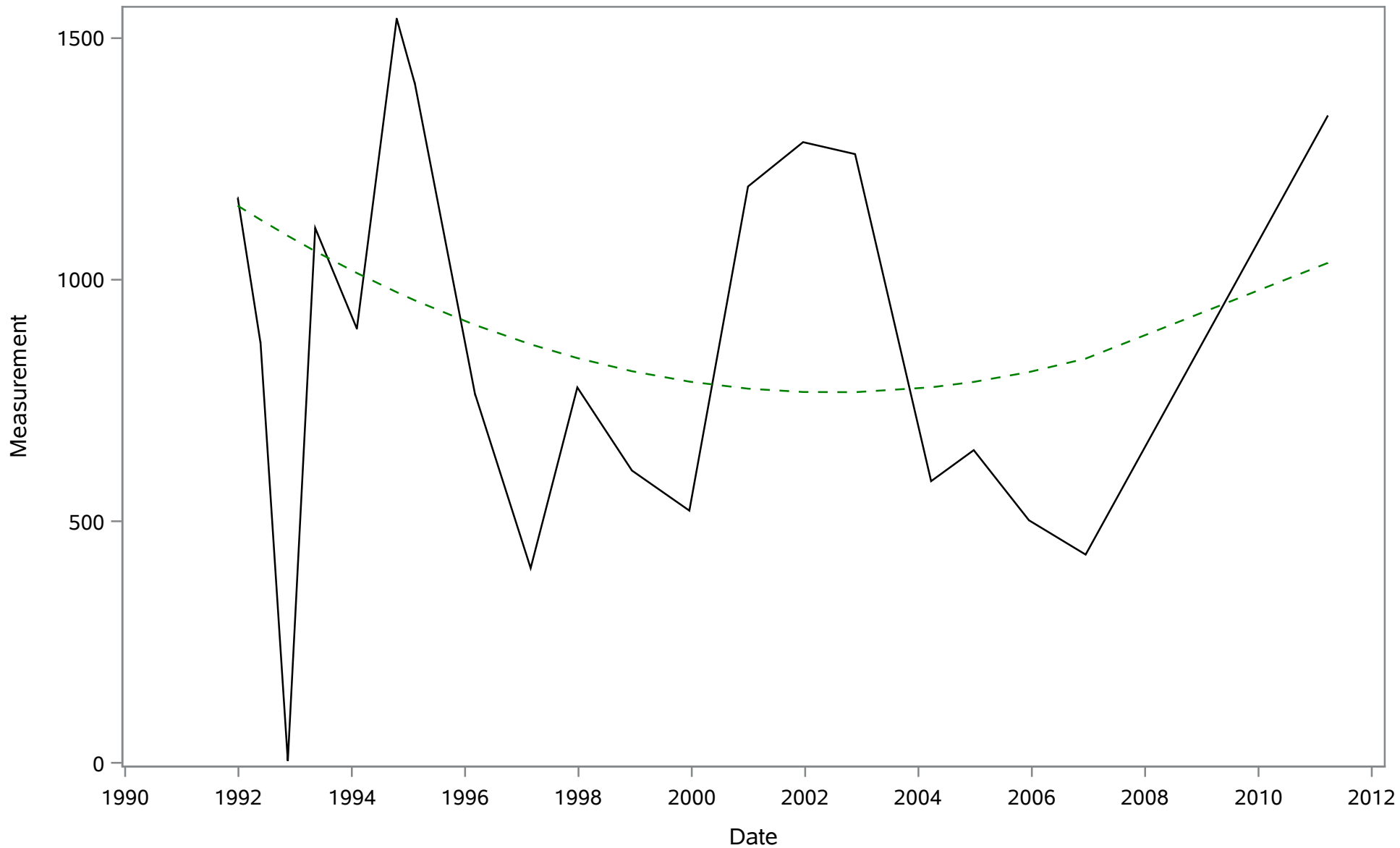


Chassahowitzka River - Fixed Station

Source: Inactive

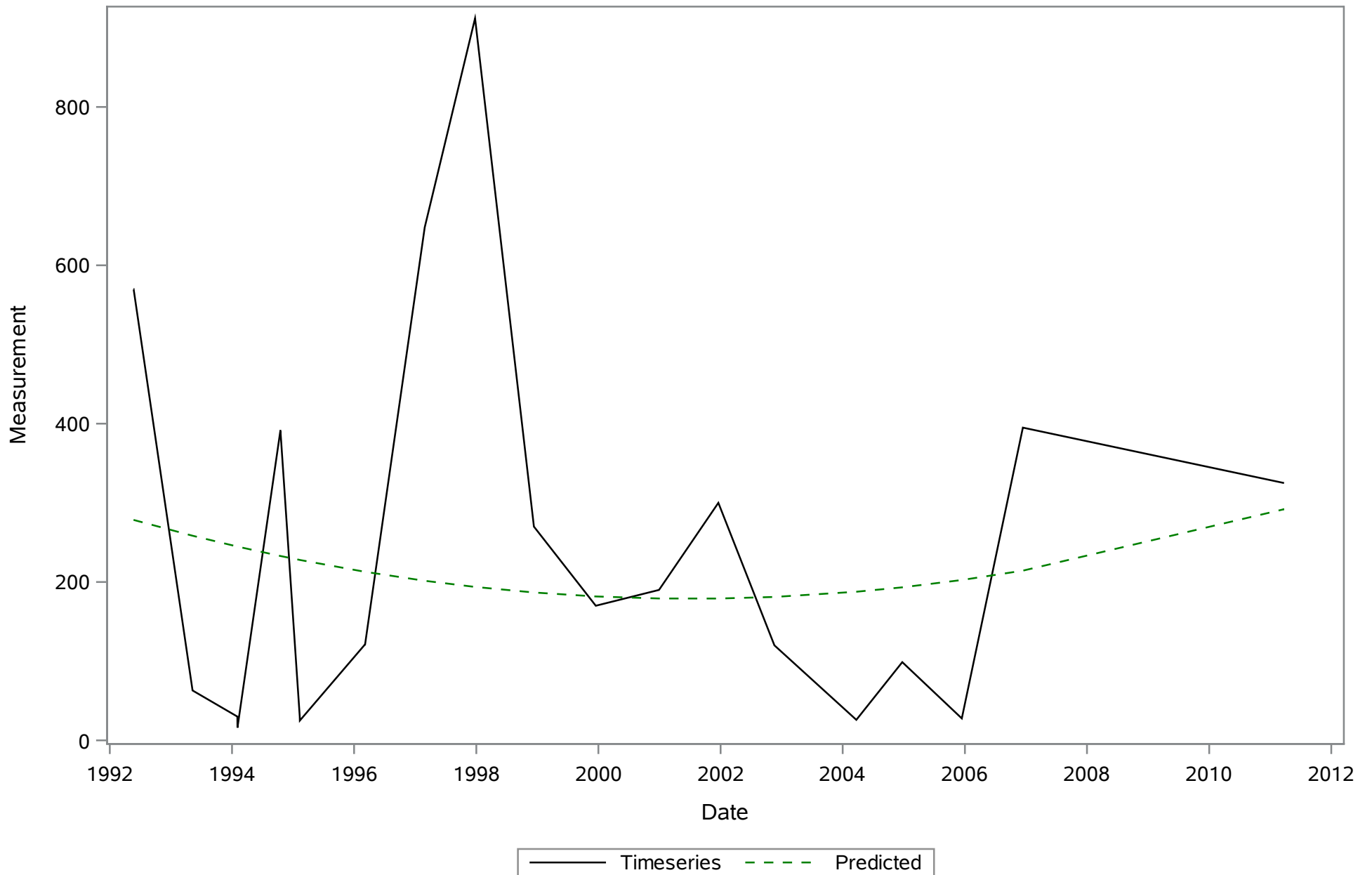
HRS 19A Zollinger FLDN

Chloride (Dissolved) mg/L

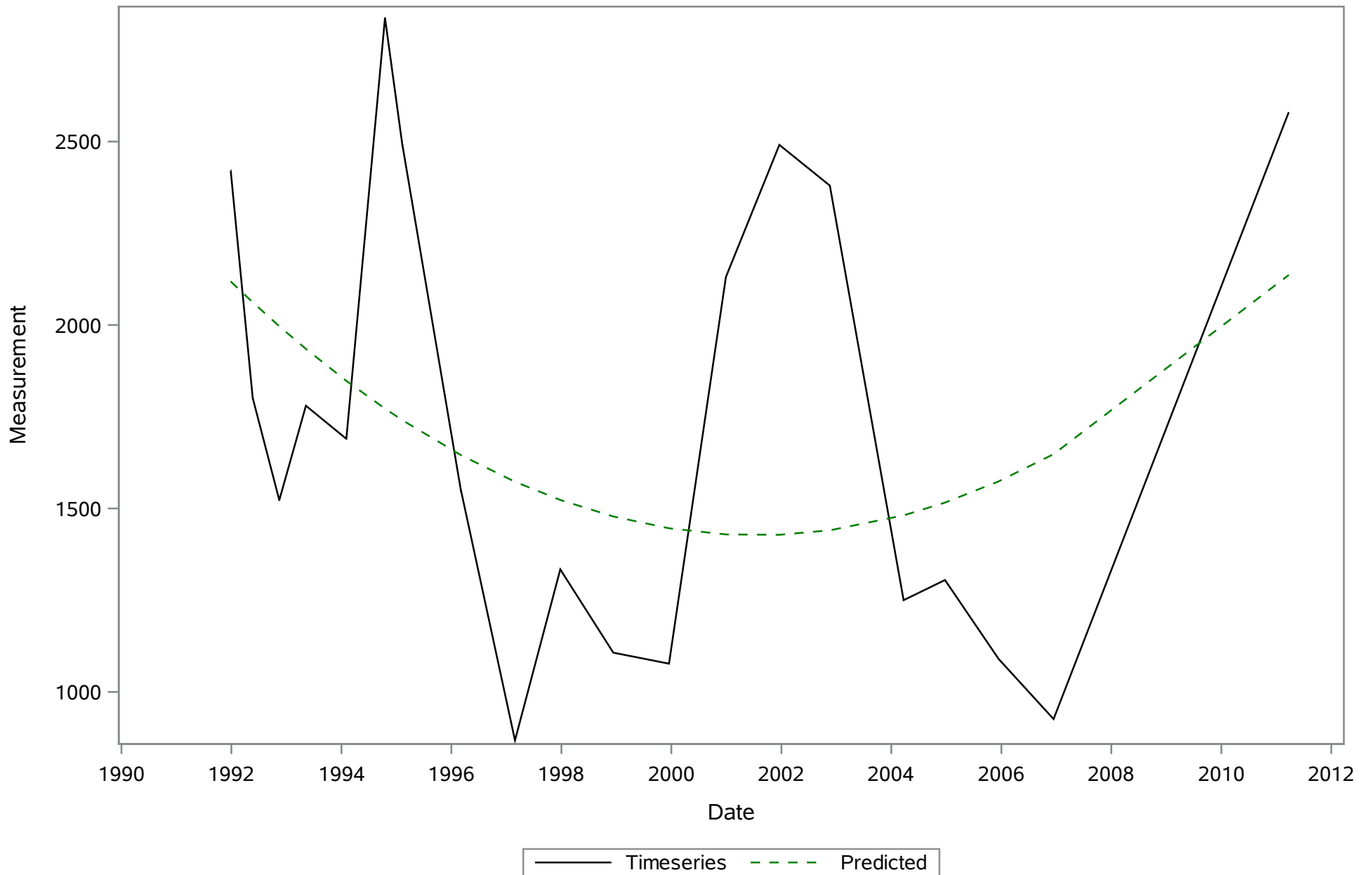


— Timeseries - - - Predicted

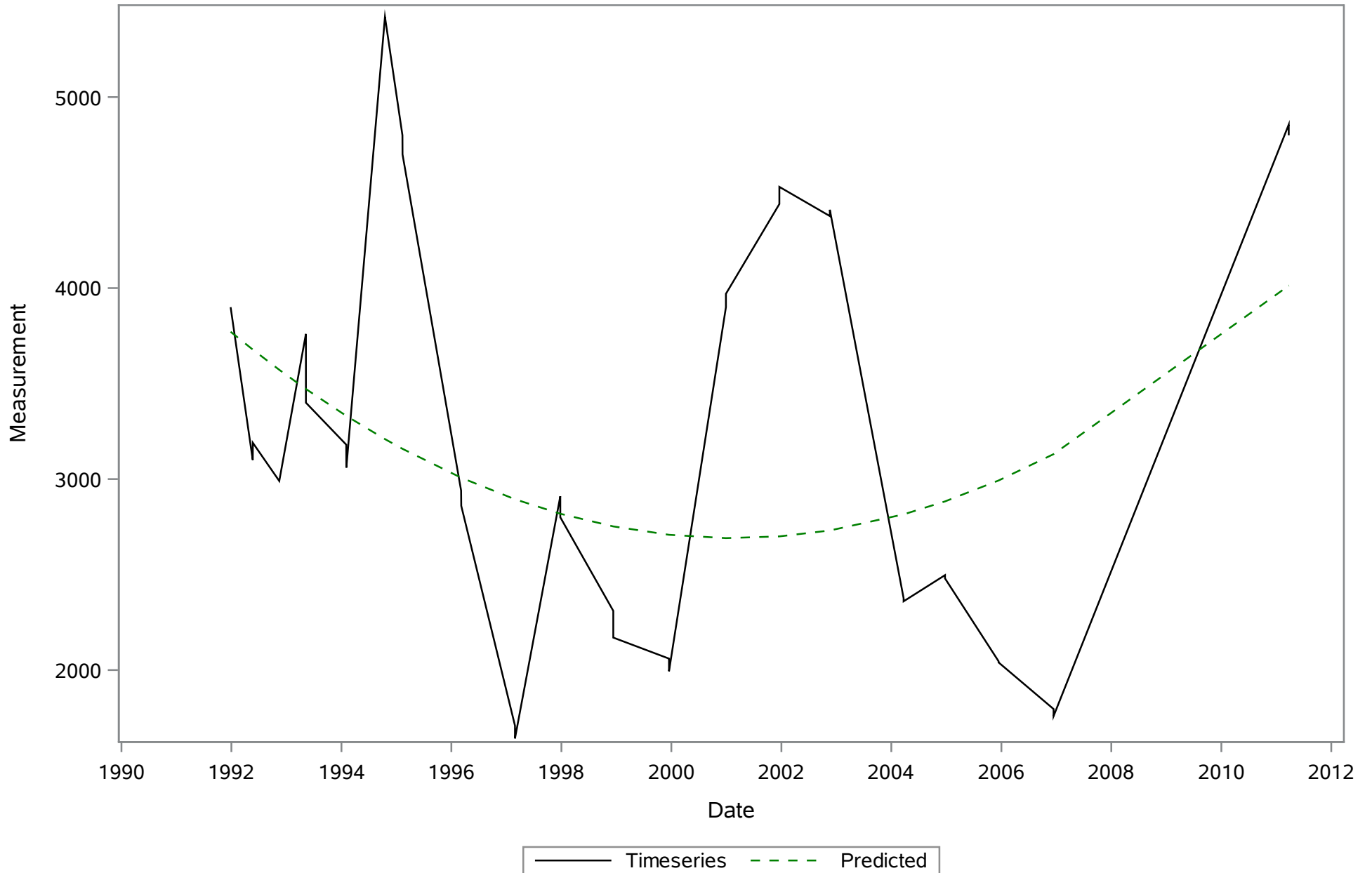
Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Iron (Dissolved) ug/L



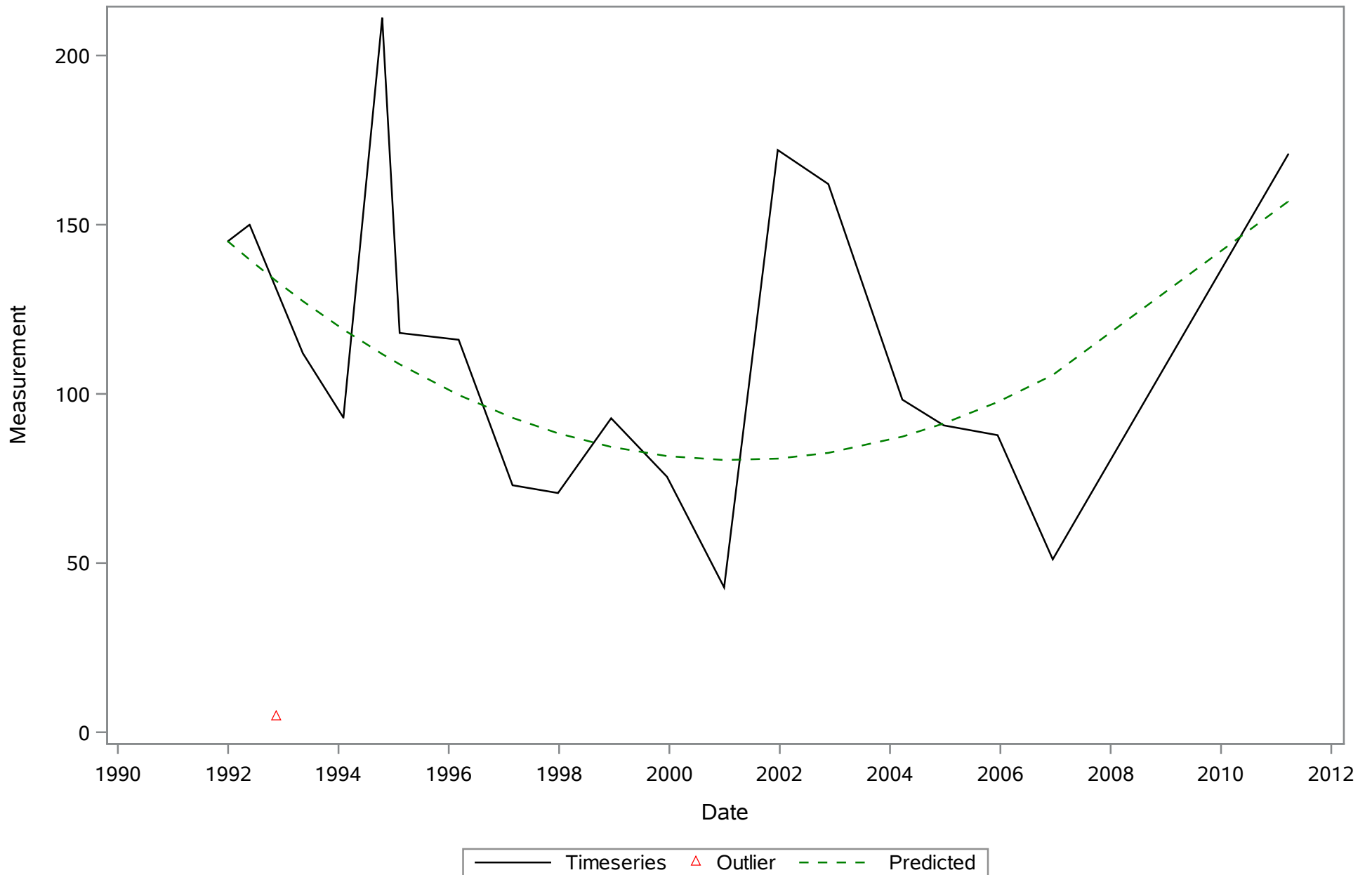
Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Residues- Filterable (TDS) (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Specific Conductance (Total) uS/cm



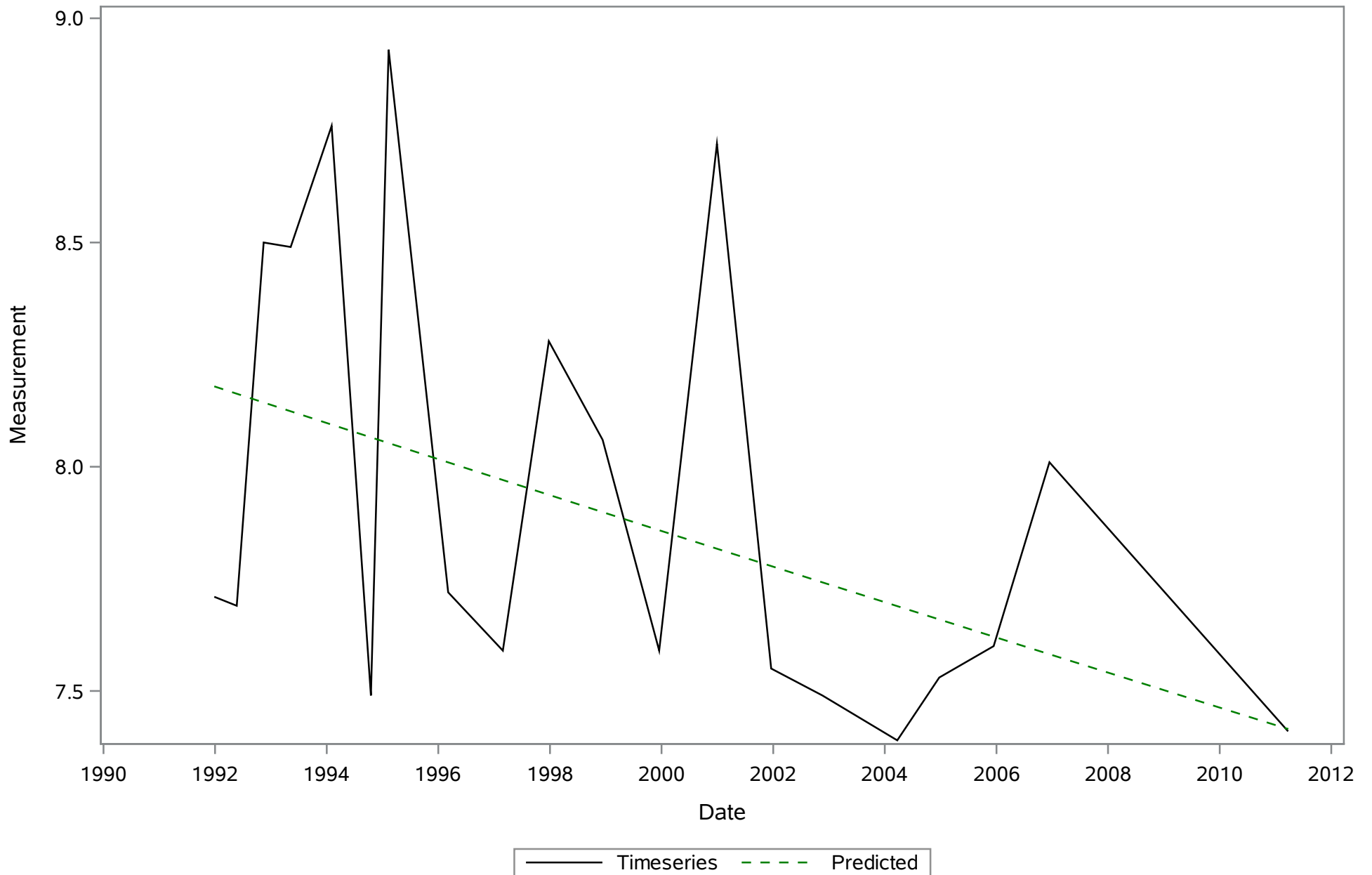
Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Sulfate (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Temperature (Total) Deg. C



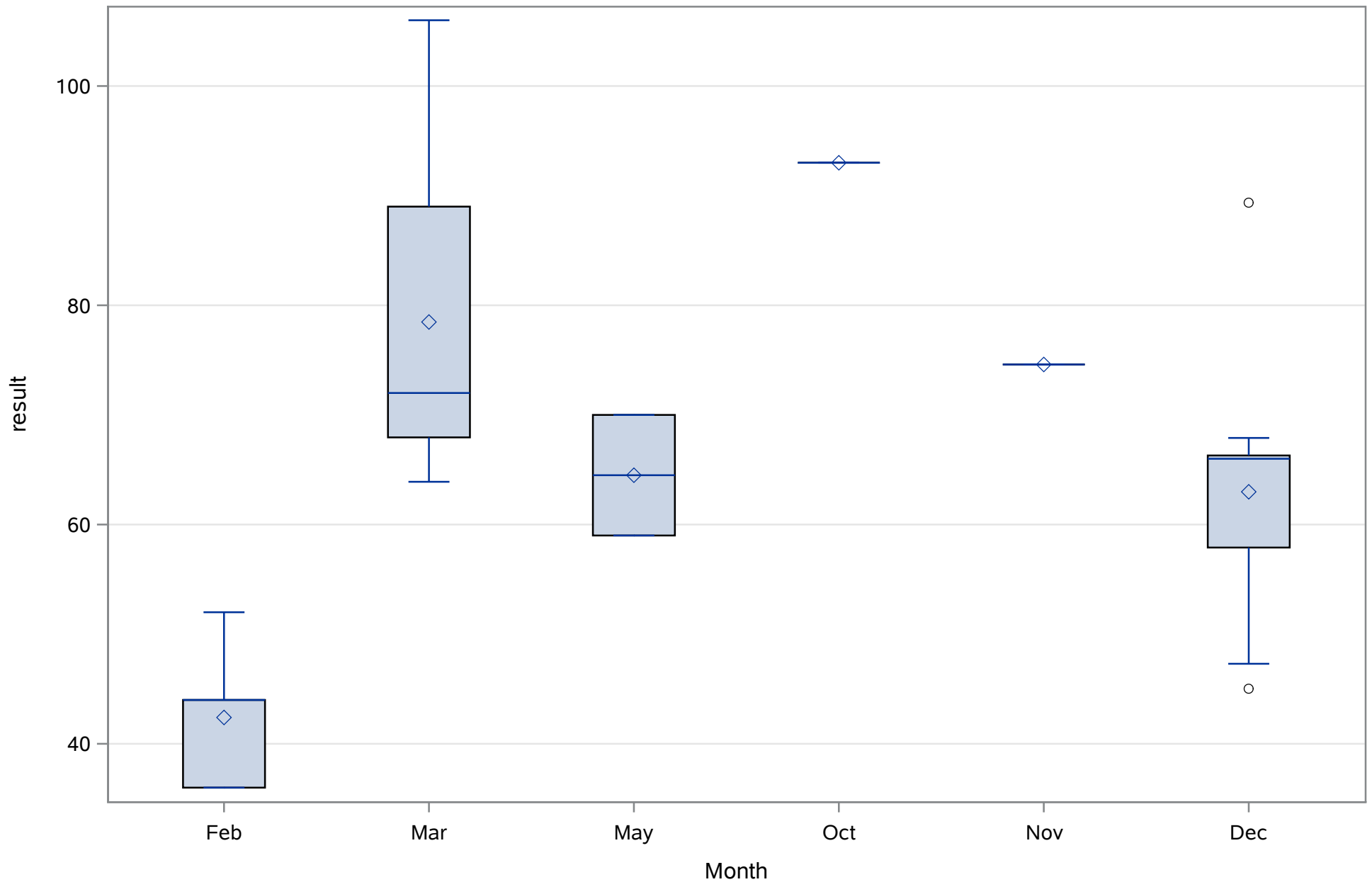
Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
pH (Total) SU



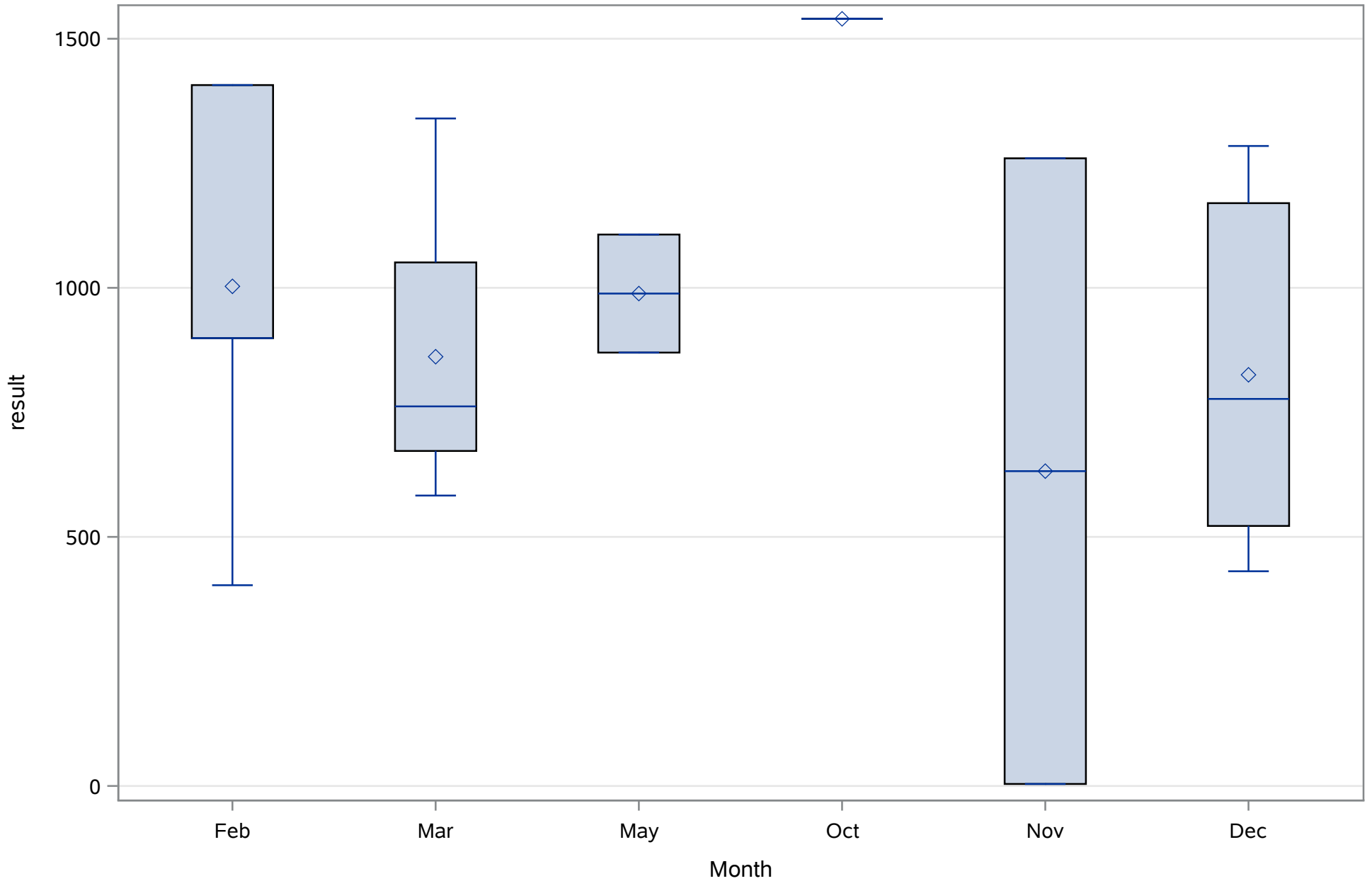
Chassahowitzka River - Fixed Station

Source: Inactive

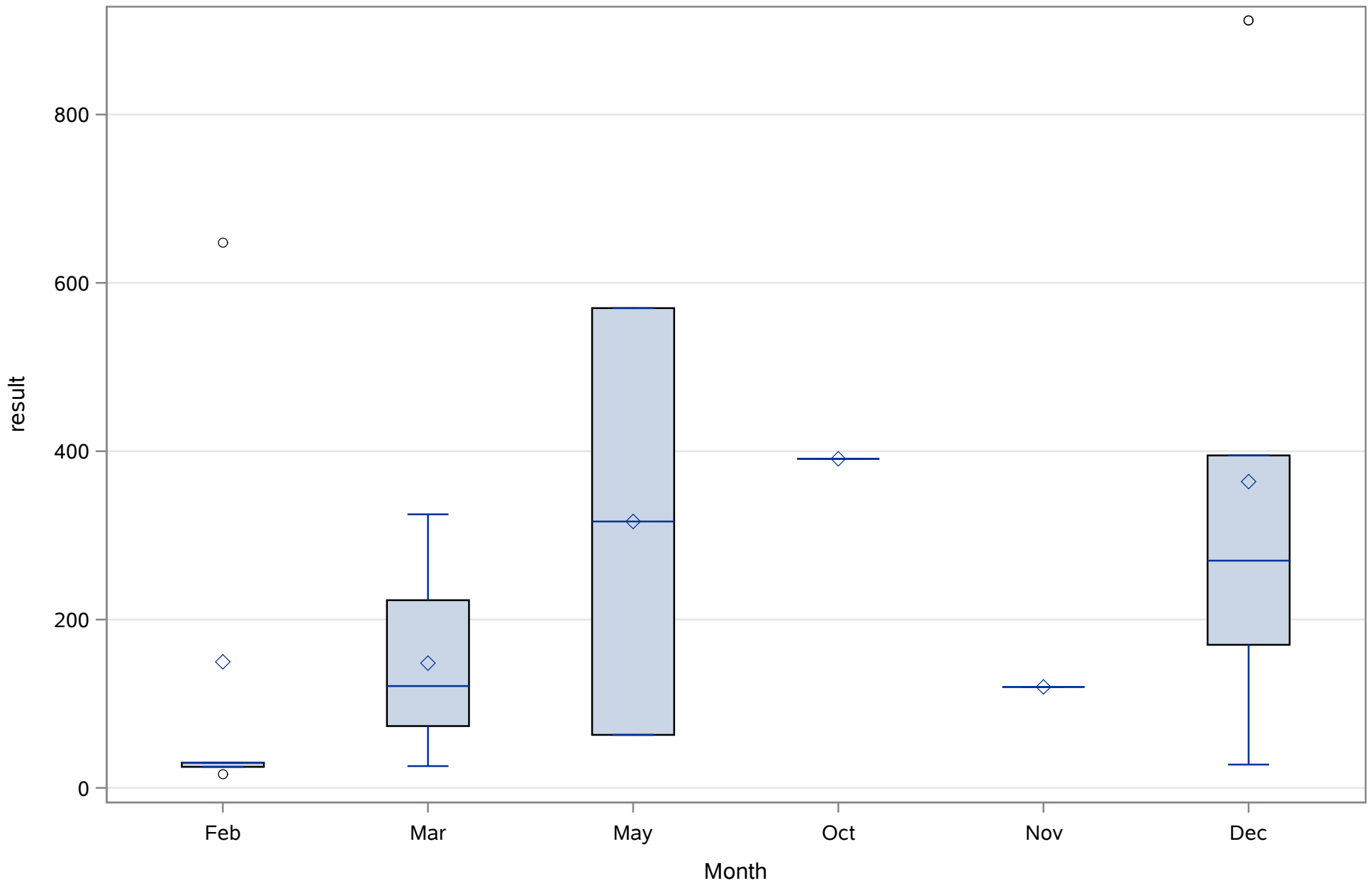
HRS 19A Zollinger FLDN
Calcium (Dissolved) mg/L



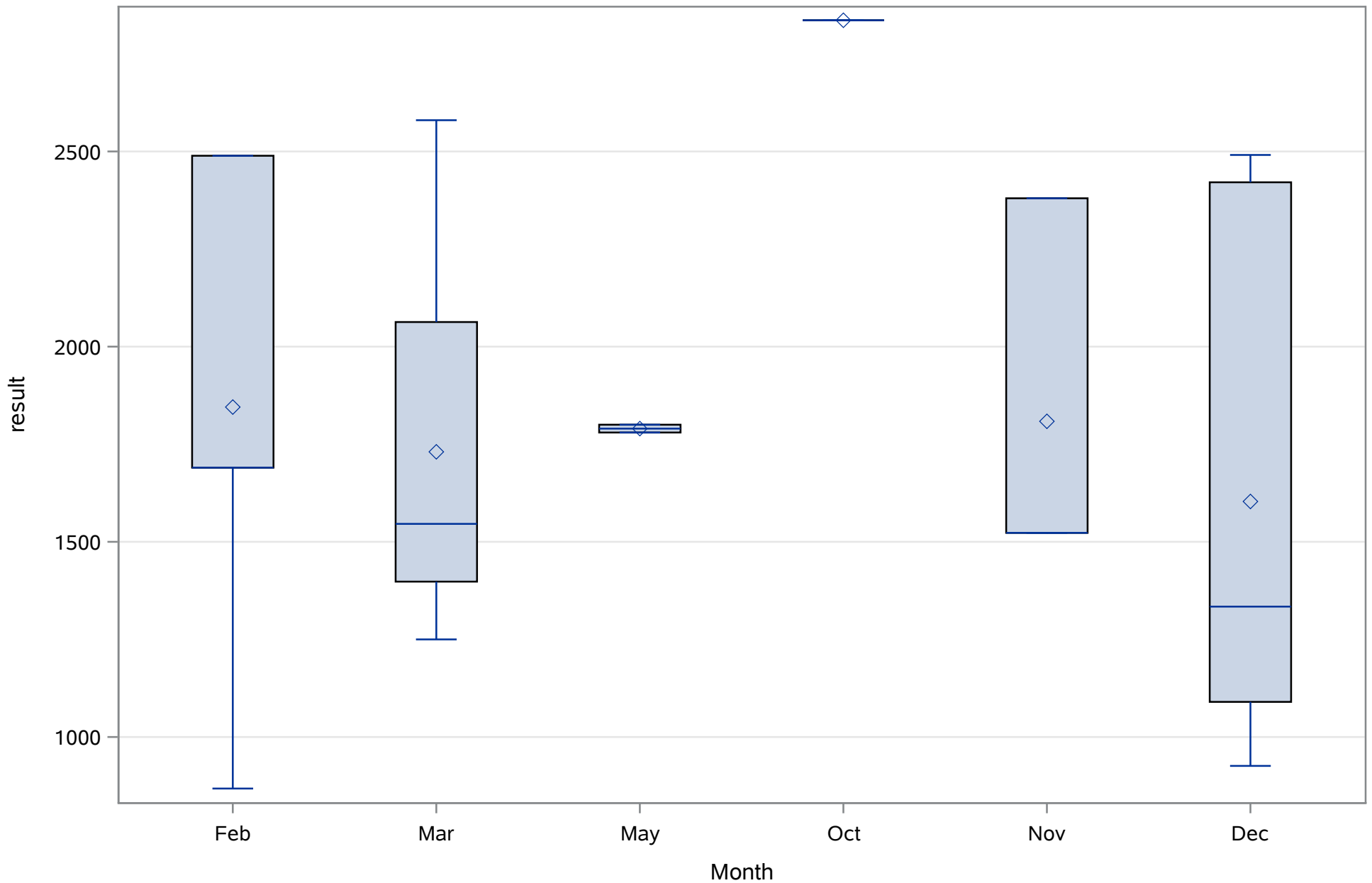
Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Chloride (Dissolved) mg/L



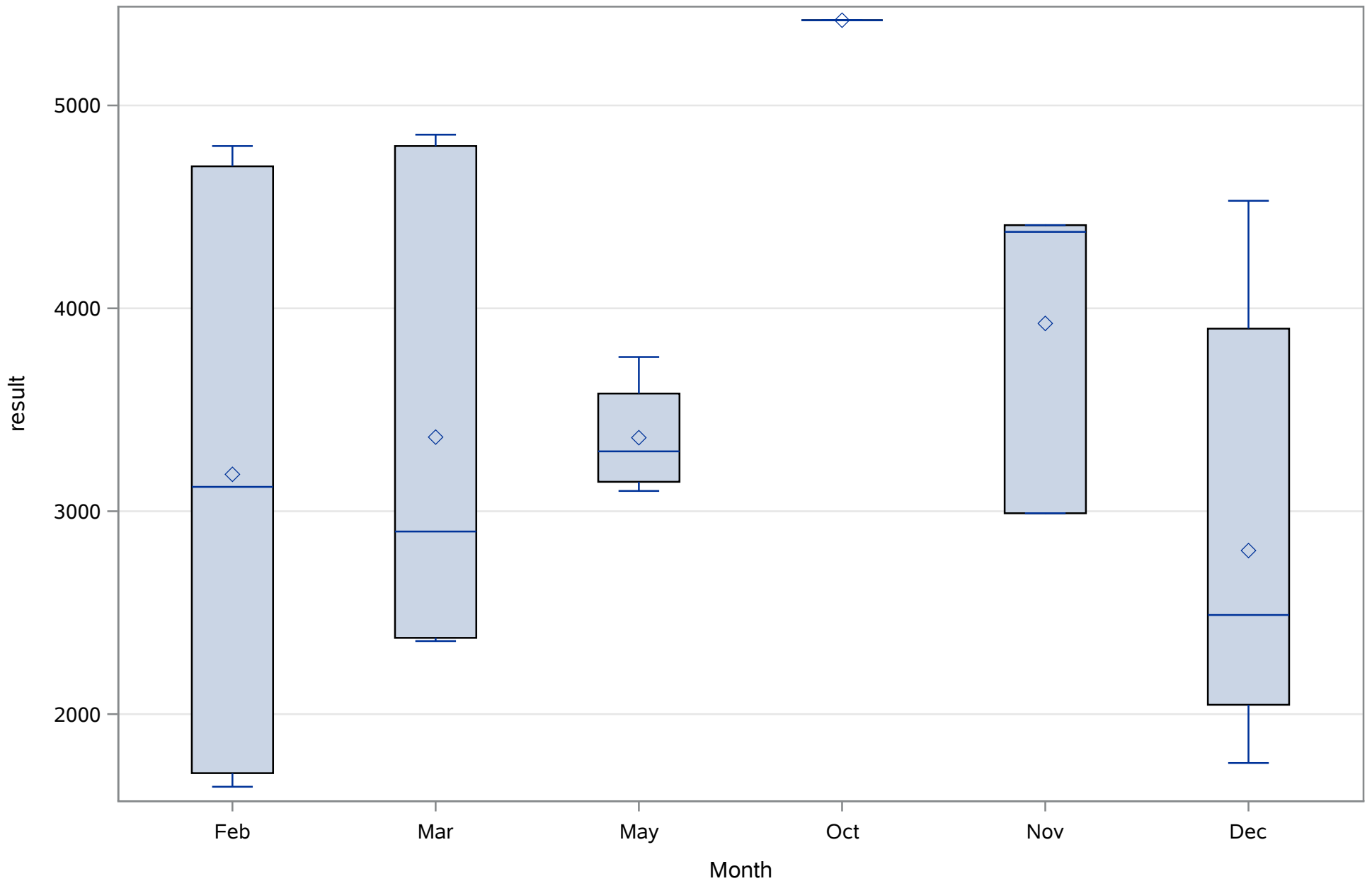
Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Iron (Dissolved) ug/L



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Residues- Filterable (TDS) (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Specific Conductance (Total) uS/cm

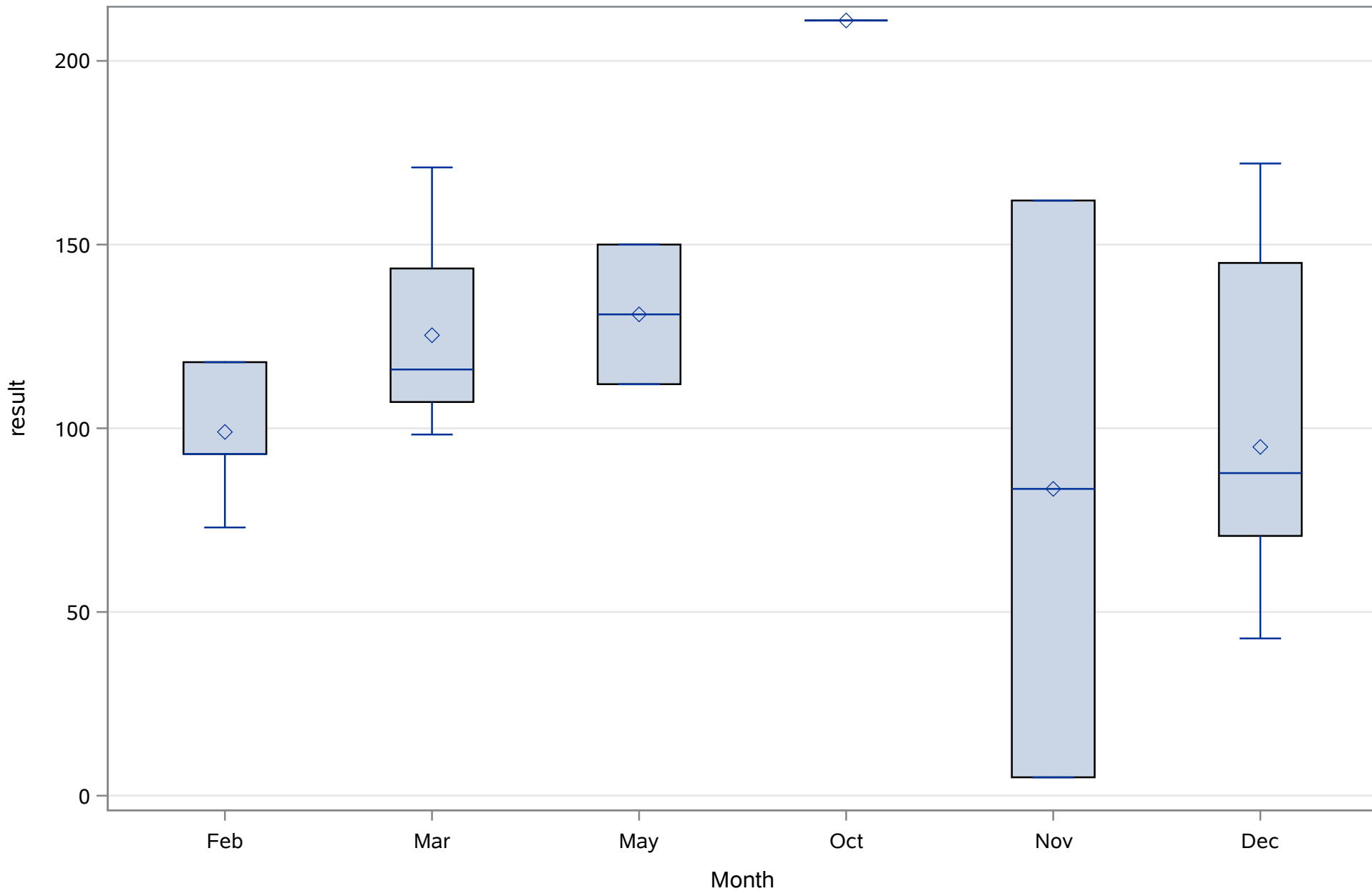


Chassahowitzka River - Fixed Station

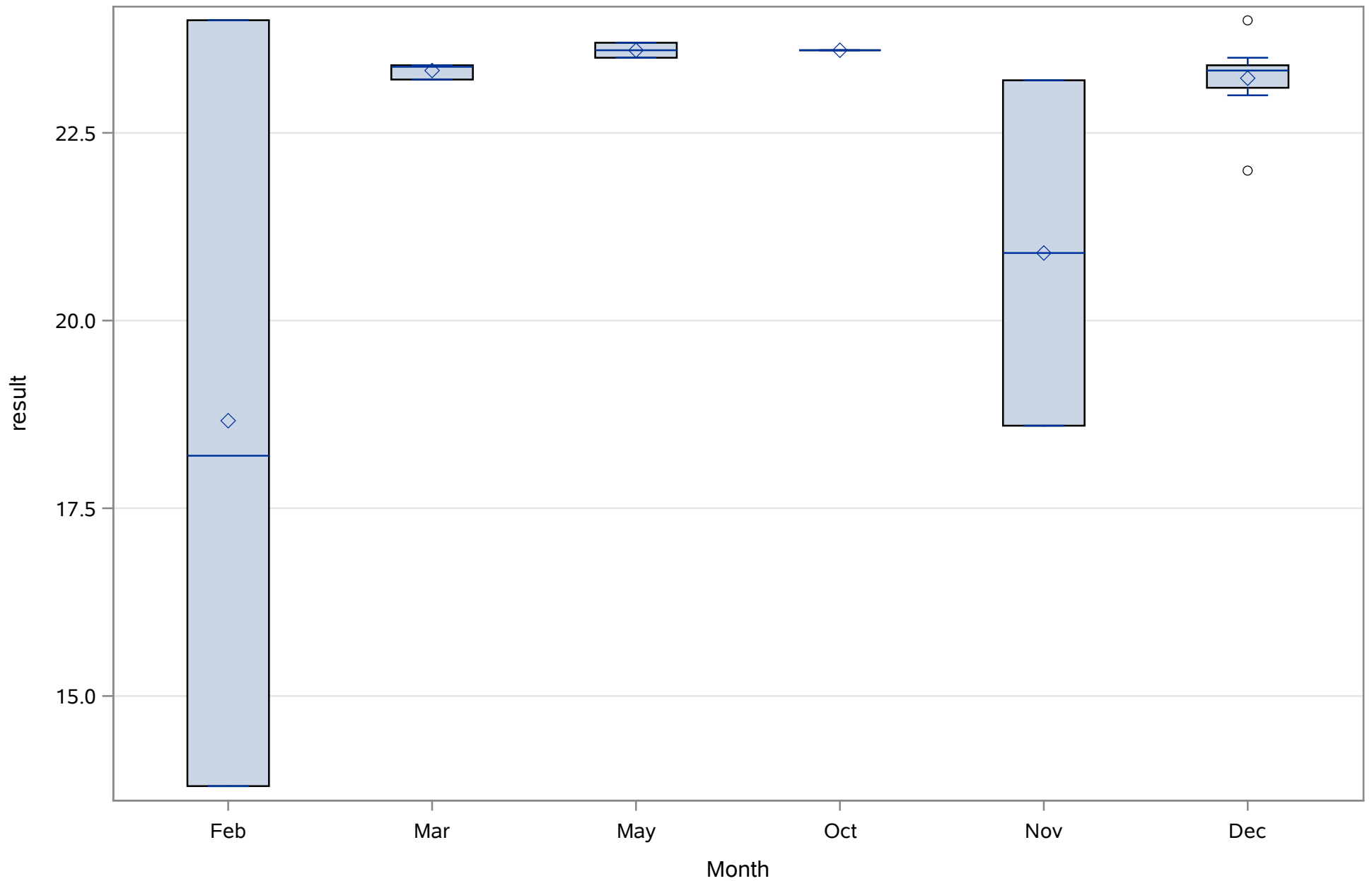
Source: Inactive

HRS 19A Zollinger FLDN

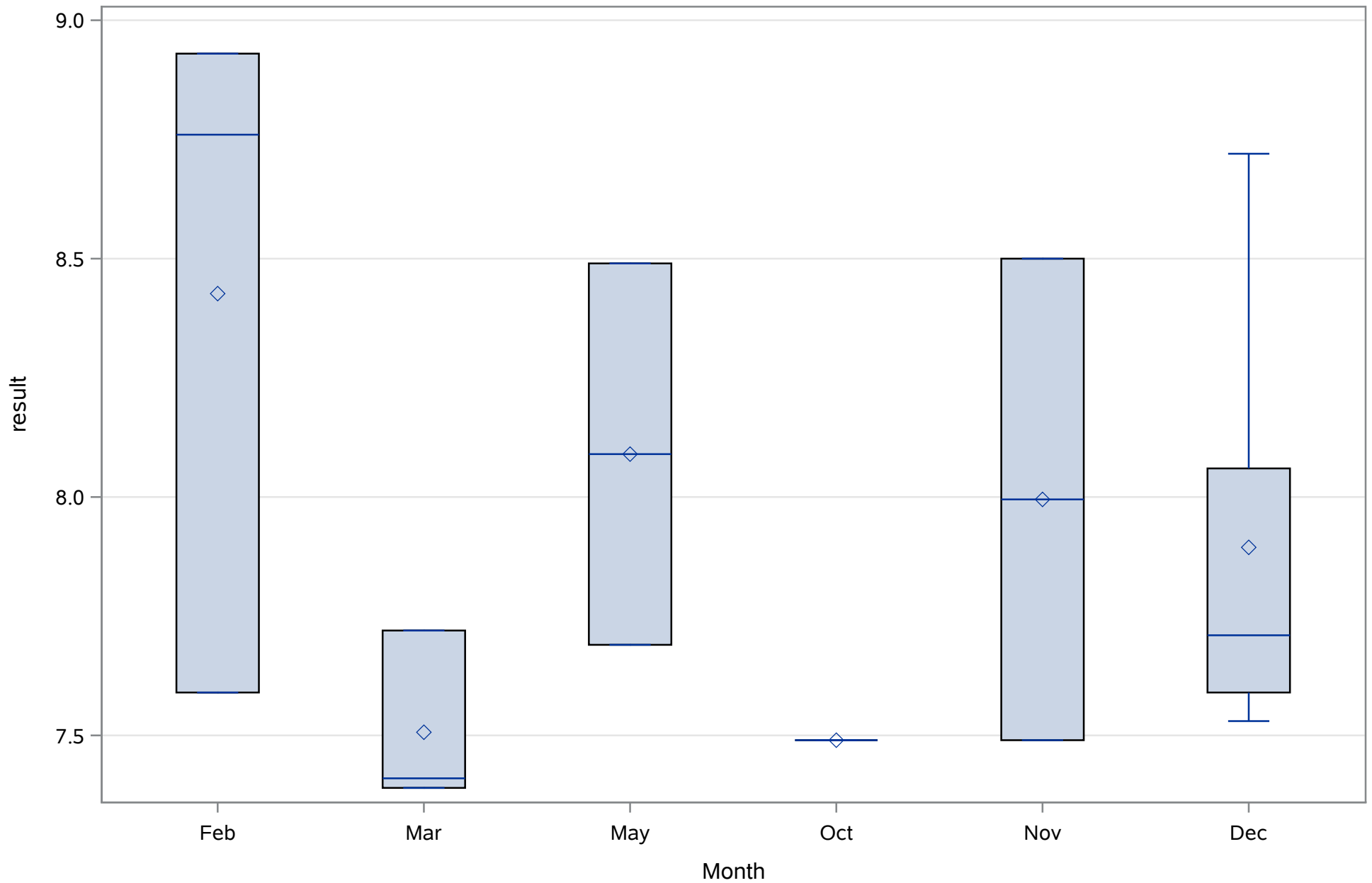
Sulfate (Dissolved) mg/L



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
Temperature (Total) Deg. C



Chassahowitzka River - Fixed Station
Source: Inactive
HRS 19A Zollinger FLDN
pH (Total) SU



Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka River 7 WQ

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity as CaCO ₃ (Total)	mg/L	FEB2000	FEB2000	2	0.0%	0.0%	0.0%
Ammonia (N) (Total)	mg/L	NOV1999	JUN2000	7	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1999	OCT2000	7	0.0%	0.0%	0.0%
Cadmium (Total)	ug/L	OCT1999	OCT2000	18	0.0%	0.0%	100.0%
Calcium (Total)	mg/L	OCT1999	AUG2000	8	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1999	OCT2000	11	0.0%	0.0%	0.0%
Color (Dissolved)	PCU	OCT1999	OCT2000	15	0.0%	0.0%	0.0%
Copper (Total)	ug/L	OCT1999	SEP2000	15	0.0%	0.0%	0.0%
Hardness (Total)	mg/L	OCT1999	OCT2000	11	0.0%	0.0%	0.0%
Iron (Total)	ug/L	OCT1999	SEP2000	9	0.0%	0.0%	0.0%
Lead (Total)	ug/L	OCT1999	OCT2000	12	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	NOV1999	AUG2000	7	0.0%	0.0%	0.0%
Nitrate (N) (Total)	mg/L	OCT1999	MAR2000	6	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Total)	mg/L	AUG2000	AUG2000	1	0.0%	0.0%	100.0%
Nitrite (N) (Total)	mg/L	OCT1999	OCT2000	7	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	APR2000	AUG2000	6	0.0%	0.0%	0.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	JAN2000	MAR2000	2	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	MAY2000	MAY2000	2	0.0%	0.0%	0.0%
Orthophosphate (P) (Total)	mg/L	OCT1999	OCT2000	10	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1999	OCT2000	15	0.0%	0.0%	0.0%
Residues- Nonfilterable (TSS) (Total)	mg/L	OCT1999	OCT2000	16	0.0%	0.0%	0.0%
Sulfate (Dissolved)	mg/L	OCT1999	SEP2000	12	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1999	OCT2000	14	0.0%	0.0%	0.0%
Zinc (Total)	ug/L	OCT1999	OCT2000	16	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Potter Creek Spring

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Alkalinity (Total)	mg/L	OCT1993	JAN2005	5	0.0%	0.0%	0.0%
Ammonia (N) (Dissolved)	mg/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Bicarbonate (Total)	mg/L	OCT1993	JAN1995	4	0.0%	0.0%	0.0%
Calcium (Dissolved)	mg/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Carbon- Total Organic (Total)	mg/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Chloride (Dissolved)	mg/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Dissolved Oxygen (Total)	mg/L	JAN2005	JAN2005	1	0.0%	0.0%	100.0%
Fluoride (Dissolved)	mg/L	OCT1993	JAN2005	5	0.0%	0.0%	0.0%
Fluoride (Total)	mg/L	OCT1993	JAN1995	4	0.0%	0.0%	0.0%
Iron (Dissolved)	ug/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Magnesium (Dissolved)	mg/L	OCT1993	JAN2005	5	0.0%	0.0%	0.0%
Magnesium (Total)	mg/L	OCT1993	JAN1995	4	0.0%	0.0%	0.0%
Nitrate (N) (Dissolved)	mg/L	OCT1993	JAN2005	6	0.0%	0.0%	0.0%
Nitrate-Nitrite (N) (Dissolved)	mg/L	OCT1993	JAN2005	8	0.0%	0.0%	0.0%
Nitrite (N) (Dissolved)	mg/L	OCT1993	JAN2005	5	0.0%	0.0%	0.0%
Nitrogen- Organic (Dissolved)	mg/L	OCT1993	JAN1995	4	0.0%	0.0%	0.0%
Nitrogen- Total (Total)	mg/L	JAN2005	JAN2005	1	0.0%	0.0%	100.0%
Nitrogen- Total Kjeldahl (Total)	mg/L	OCT1993	JAN1995	4	0.0%	0.0%	0.0%
Orthophosphate (P) (Dissolved)	mg/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Phosphorus- Total (Total)	mg/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Potassium (Dissolved)	mg/L	OCT1993	JAN2005	5	0.0%	0.0%	0.0%
Potassium (Total)	mg/L	OCT1993	JAN1995	4	0.0%	0.0%	0.0%
Purge Volume (Total)	Gallons	JAN2005	JAN2005	1	0.0%	0.0%	100.0%
Residues- Filterable (TDS) (Dissolved)	mg/L	OCT1993	JAN2005	8	0.0%	0.0%	0.0%
Silica- Dissolved (Dissolved)	mg/L	JAN2005	JAN2005	1	0.0%	0.0%	100.0%
Sodium (Dissolved)	mg/L	OCT1993	JAN2005	5	0.0%	0.0%	0.0%
Sodium (Total)	mg/L	OCT1993	JAN1995	4	0.0%	0.0%	0.0%
Specific Conductance (Total)	uS/cm	OCT1993	JAN2005	6	0.0%	0.0%	0.0%
Strontium (Dissolved)	ug/L	JAN2005	JAN2005	1	0.0%	0.0%	100.0%
Sulfate (Dissolved)	mg/L	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
Temperature (Total)	Deg. C	OCT1993	JAN2005	5	0.0%	0.0%	0.0%
Turbidity (Total)	NTU	OCT1993	JAN2005	9	0.0%	0.0%	0.0%
pH (Total)	SU	OCT1993	JAN2005	5	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: Inactive
Chassahowitzka Bounty Court

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
Ammonia (N) (Total)	mg/L	MAR2007	MAR2007	1	0.0%	0.0%	100.0%
Nitrate-Nitrite (N) (Total)	mg/L	MAR2007	MAR2007	1	0.0%	0.0%	100.0%
Nitrite (N) (Total)	mg/L	MAR2007	MAR2007	1	0.0%	0.0%	100.0%
Nitrogen- Total (Total)	mg/L	MAR2007	MAR2007	1	0.0%	0.0%	100.0%
Orthophosphate (P) (Total)	mg/L	MAR2007	MAR2007	1	0.0%	0.0%	100.0%
Phosphorus- Total (Total)	mg/L	MAR2007	MAR2007	1	0.0%	0.0%	100.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	151.485507	Sum Observations	20905
Std Deviation	5.78979155	Variance	33.5216862
Skewness	0.15906571	Kurtosis	-0.8598482
Uncorrected SS	3171397	Corrected SS	4592.47101
Coeff Variation	3.82201021	Std Error Mean	0.49285979

Basic Statistical Measures			
Location		Variability	
Mean	151.4855	Std Deviation	5.78979
Median	151.0000	Variance	33.52169
Mode	148.0000	Range	23.00000
		Interquartile Range	9.00000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	307.3602	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	164
99%	163
95%	162
90%	159
75% Q3	156
50% Median	151
25% Q1	147
10%	144
5%	142

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

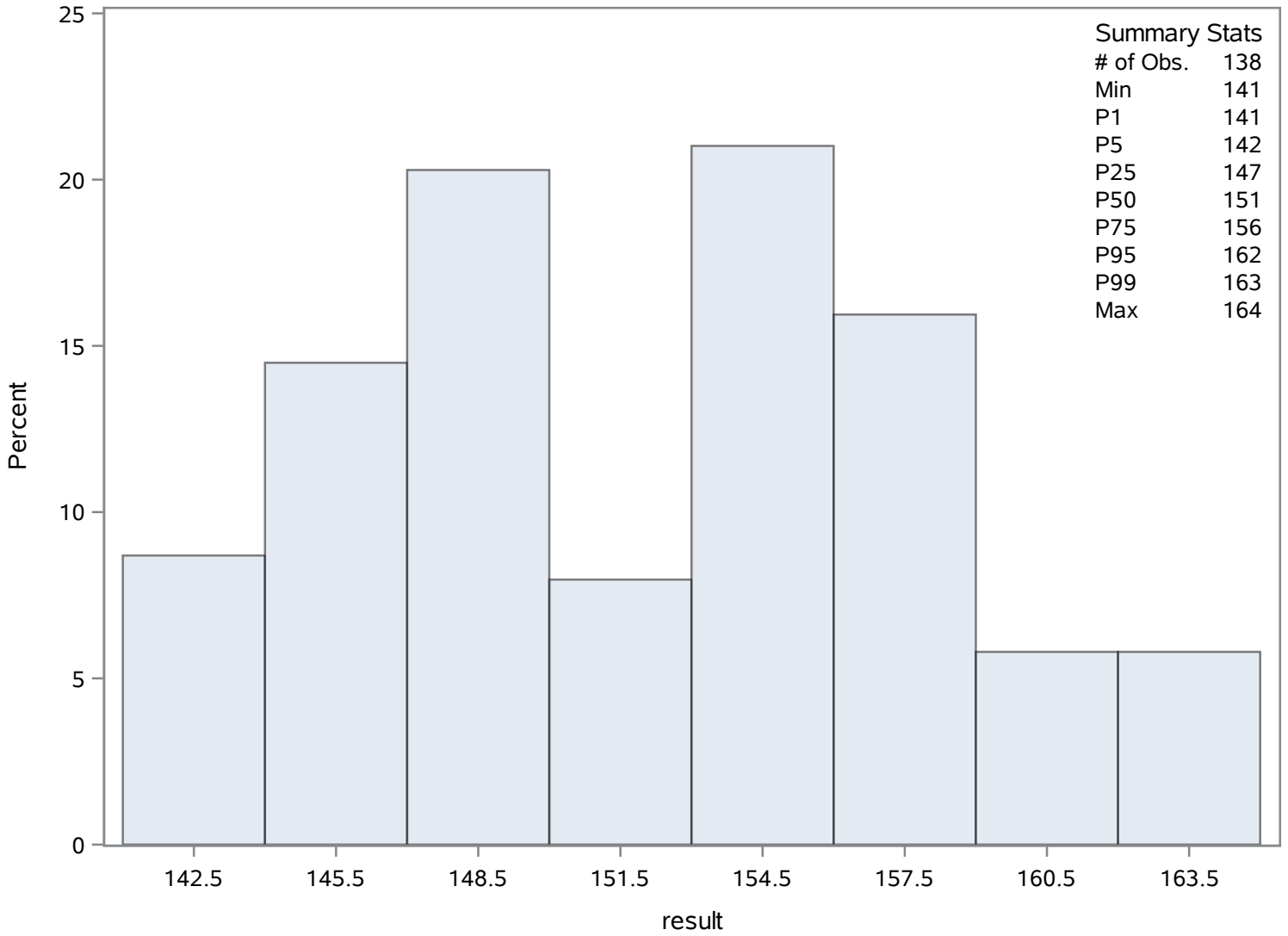
Quantiles (Definition 5)	
Level	Quantile
1%	141
0% Min	141

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
141	43	163	113
141	24	163	114
141	4	163	127
142	9	163	128
142	7	164	112

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	2.68104864	Sum Observations	369.984713
Std Deviation	2.7578269	Variance	7.60560918
Skewness	2.24213539	Kurtosis	5.50757028
Uncorrected SS	2033.91547	Corrected SS	1041.96846
Coeff Variation	102.86374	Std Error Mean	0.23476182

Basic Statistical Measures			
Location		Variability	
Mean	2.681049	Std Deviation	2.75783
Median	1.530000	Variance	7.60561
Mode	1.100000	Range	14.33000
		Interquartile Range	2.72299

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.42029	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.530000
99%	13.980000
95%	9.560000
90%	5.900000
75% Q3	3.700000
50% Median	1.530000
25% Q1	0.977011
10%	0.640000
5%	0.528736

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_Uncor_uGL

The UNIVARIATE Procedure
Variable: result

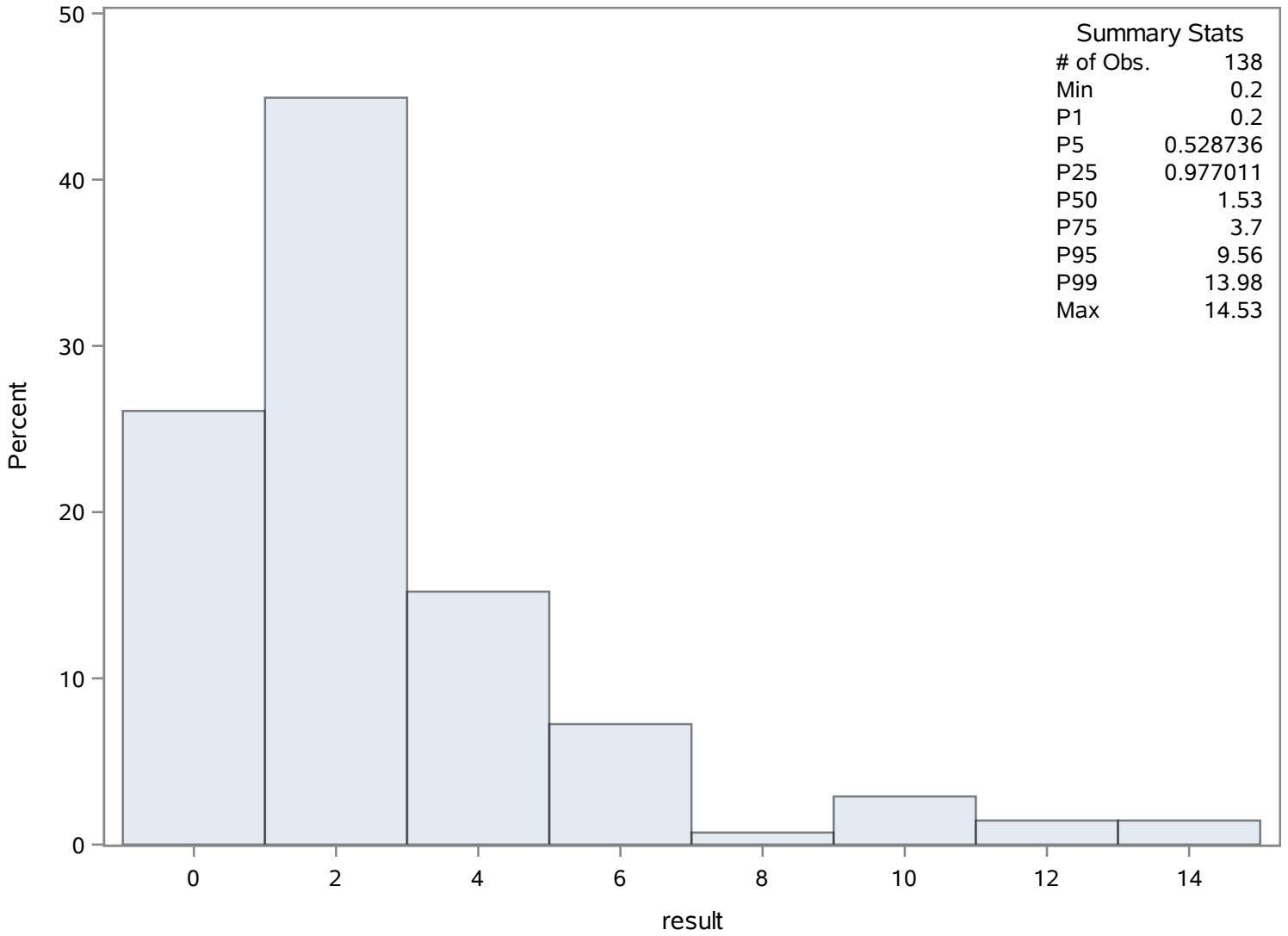
Quantiles (Definition 5)	
Level	Quantile
1%	0.200000
0% Min	0.200000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	204	10.7586	220
0.20	203	11.4000	162
0.23	253	12.6400	247
0.28	254	13.9800	223
0.40	202	14.5300	245

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	2.268021	Sum Observations	163.297512
Std Deviation	2.42630929	Variance	5.88697675
Skewness	1.63414364	Kurtosis	1.95334668
Uncorrected SS	788.337537	Corrected SS	417.975349
Coeff Variation	106.979136	Std Error Mean	0.28594329

Basic Statistical Measures			
Location		Variability	
Mean	2.268021	Std Deviation	2.42631
Median	1.118620	Variance	5.88698
Mode	0.558620	Range	10.17000
		Interquartile Range	2.72172

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.931716	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.280000
99%	10.280000
95%	7.932404
90%	5.470000
75% Q3	3.350860
50% Median	1.118620
25% Q1	0.629138
10%	0.446896
5%	0.279310
1%	0.110000
0% Min	0.110000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_cor_ugl

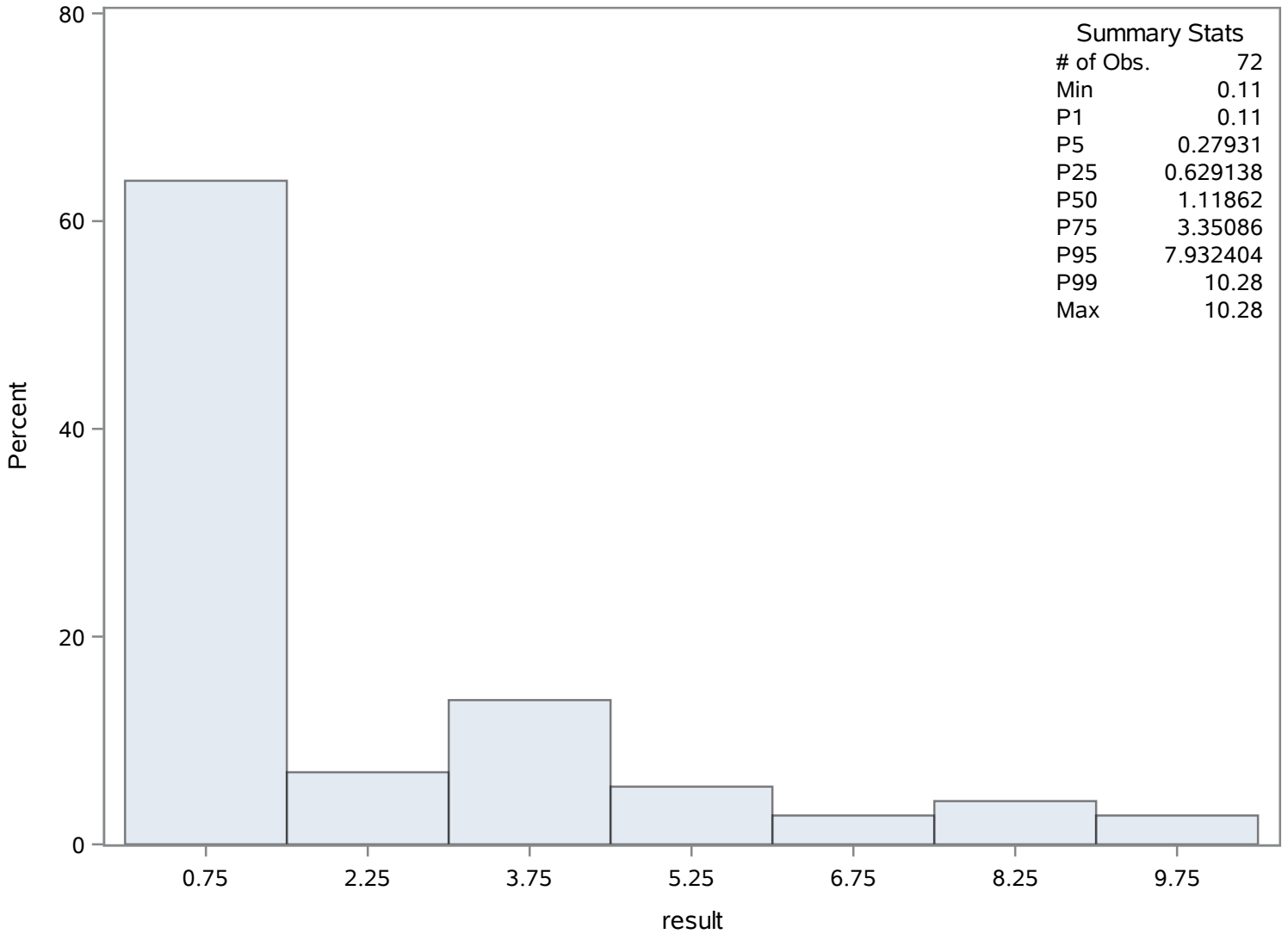
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.11000	325	7.60000	321
0.22000	337	7.93240	294
0.22000	326	8.60000	295
0.27931	278	9.16137	292
0.34000	339	10.28000	317

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.28985507	Sum Observations	592
Std Deviation	5.59092447	Variance	31.2584365
Skewness	4.66471492	Kurtosis	24.3787172
Uncorrected SS	6822	Corrected SS	4282.4058
Coeff Variation	130.328983	Std Error Mean	0.4759311

Basic Statistical Measures			
Location		Variability	
Mean	4.289855	Std Deviation	5.59092
Median	3.000000	Variance	31.25844
Mode	2.000000	Range	39.00000
		Interquartile Range	2.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.013605	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	40
99%	36
95%	11
90%	7
75% Q3	4
50% Median	3
25% Q1	2
10%	2
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
COLOR_PtCo

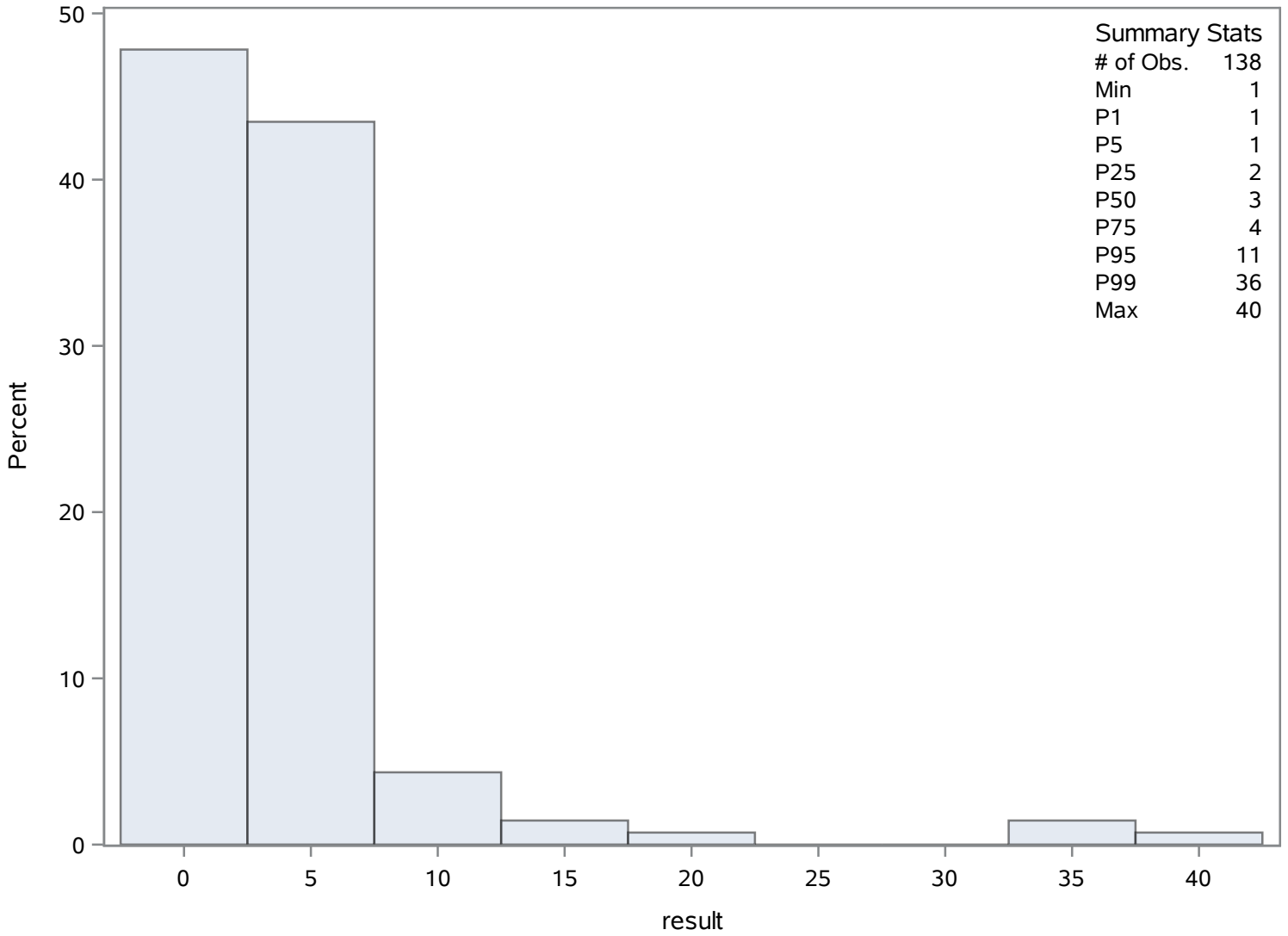
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	478	17	386
1	477	20	387
1	453	34	482
1	452	36	481
1	451	40	480

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.57811594	Sum Observations	907.78
Std Deviation	1.77327012	Variance	3.14448694
Skewness	1.26641549	Kurtosis	3.4643894
Uncorrected SS	6402.2768	Corrected SS	430.79471
Coeff Variation	26.9571127	Std Error Mean	0.15095078

Basic Statistical Measures			
Location		Variability	
Mean	6.578116	Std Deviation	1.77327
Median	6.270000	Variance	3.14449
Mode	4.100000	Range	11.87000
		Interquartile Range	1.70000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	43.57789	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.57
99%	12.29
95%	10.01
90%	8.56
75% Q3	7.30
50% Median	6.27
25% Q1	5.60
10%	4.80
5%	4.10

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
DO_mgL

The UNIVARIATE Procedure
Variable: result

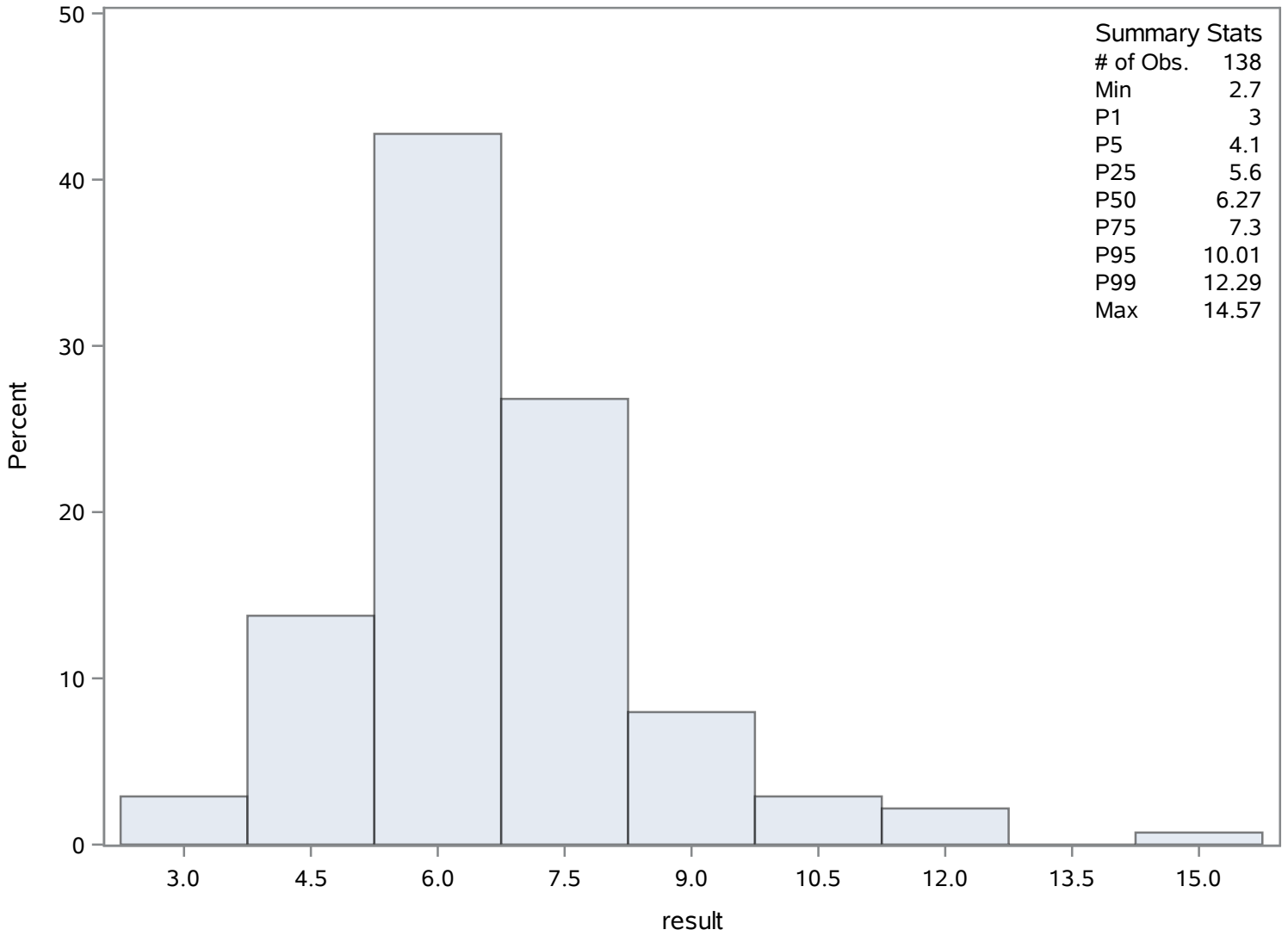
Quantiles (Definition 5)	
Level	Quantile
1%	3.00
0% Min	2.70

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.7	498	10.90	509
3.0	497	11.32	580
3.5	496	11.80	508
3.7	504	12.29	581
3.8	513	14.57	582

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	18.8766423	Sum Observations	2586.1
Std Deviation	13.4996583	Variance	182.240774
Skewness	2.2141498	Kurtosis	8.46893532
Uncorrected SS	73601.63	Corrected SS	24784.7453
Coeff Variation	71.5151458	Std Error Mean	1.15335364

Basic Statistical Measures			
Location		Variability	
Mean	18.87664	Std Deviation	13.49966
Median	17.00000	Variance	182.24077
Mode	10.00000	Range	95.00000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.36674	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	96
99%	66
95%	41
90%	34
75% Q3	23
50% Median	17
25% Q1	10
10%	5
5%	3
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NH4_ugl

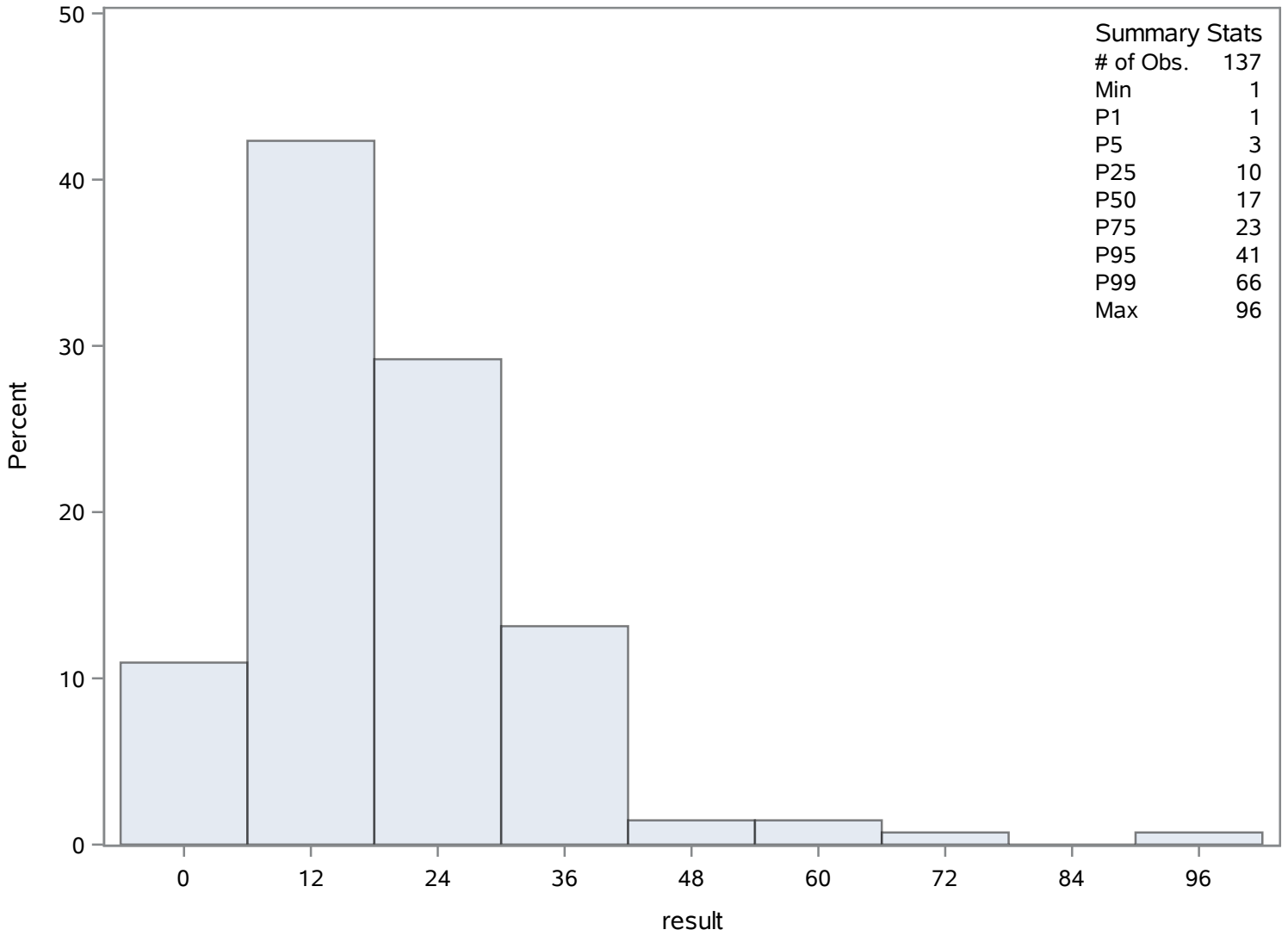
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	701	48	625
1	686	55	661
2	689	64	660
2	685	66	662
2	634	96	687

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	491.013768	Sum Observations	67759.9
Std Deviation	89.9504155	Variance	8091.07725
Skewness	-0.5240807	Kurtosis	0.52844167
Uncorrected SS	34379521.4	Corrected SS	1108477.58
Coeff Variation	18.3193265	Std Error Mean	7.65708787

Basic Statistical Measures			
Location		Variability	
Mean	491.0138	Std Deviation	89.95042
Median	500.0000	Variance	8091
Mode	470.0000	Range	529.00000
		Interquartile Range	124.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	64.12539	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	729
99%	654
95%	620
90%	595
75% Q3	562
50% Median	500
25% Q1	438
10%	380
5%	312
1%	255
0% Min	200

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NO3_ugL

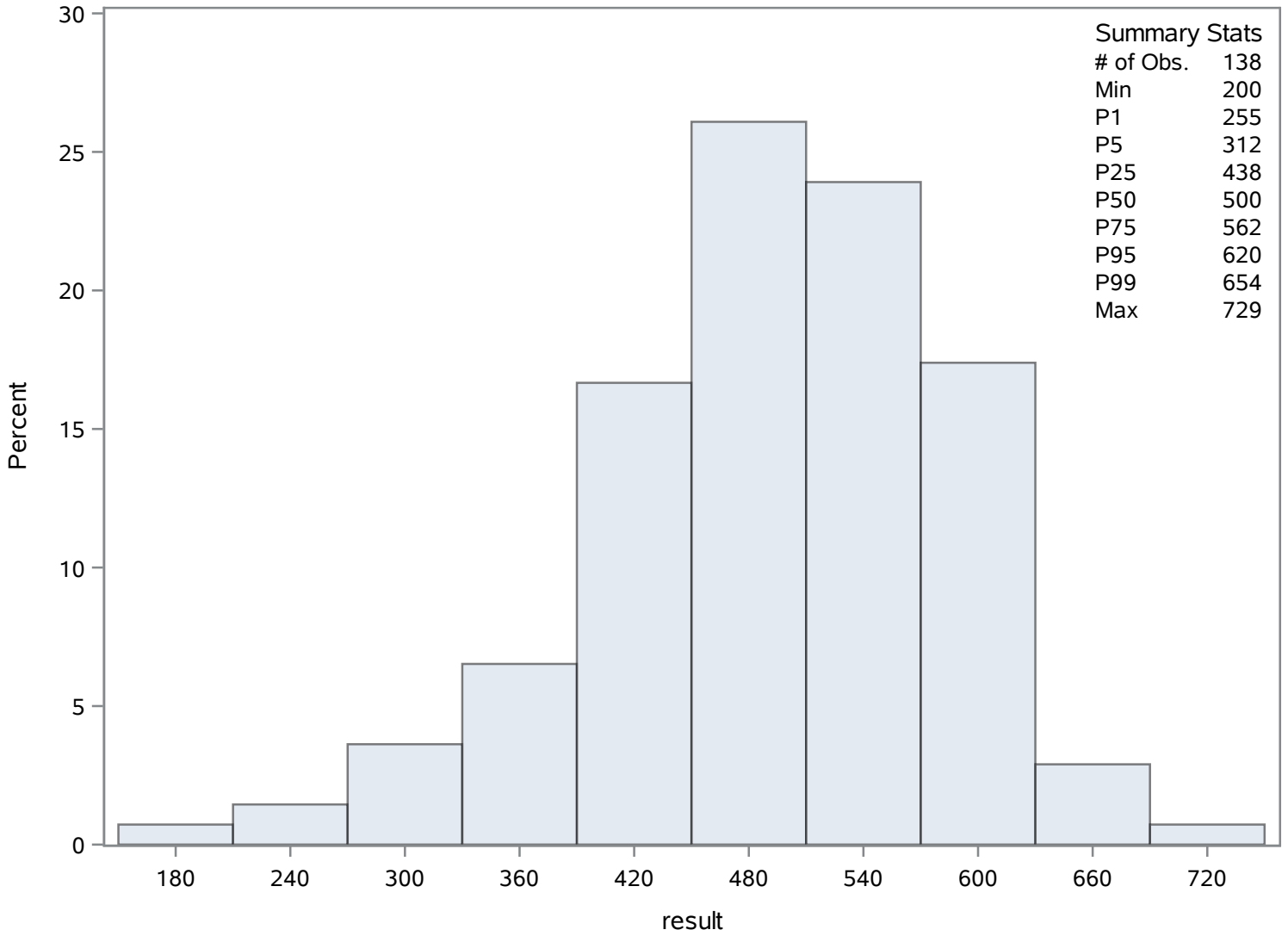
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
200	785	630	805
255	783	644	865
258	784	651	861
276	857	654	864
294	776	729	870

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	2.05376812	Sum Observations	283.42
Std Deviation	1.00820952	Variance	1.01648643
Skewness	0.25959887	Kurtosis	-0.4863035
Uncorrected SS	721.3376	Corrected SS	139.258641
Coeff Variation	49.0907181	Std Error Mean	0.08582449

Basic Statistical Measures			
Location		Variability	
Mean	2.053768	Std Deviation	1.00821
Median	1.975000	Variance	1.01649
Mode	0.400000	Range	4.69000
		Interquartile Range	1.45000

Note: The mode displayed is the smallest of 7 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.92986	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.790
99%	4.380
95%	3.680
90%	3.400
75% Q3	2.750
50% Median	1.975
25% Q1	1.300
10%	0.740
5%	0.400

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SAL_Perc

The UNIVARIATE Procedure
Variable: result

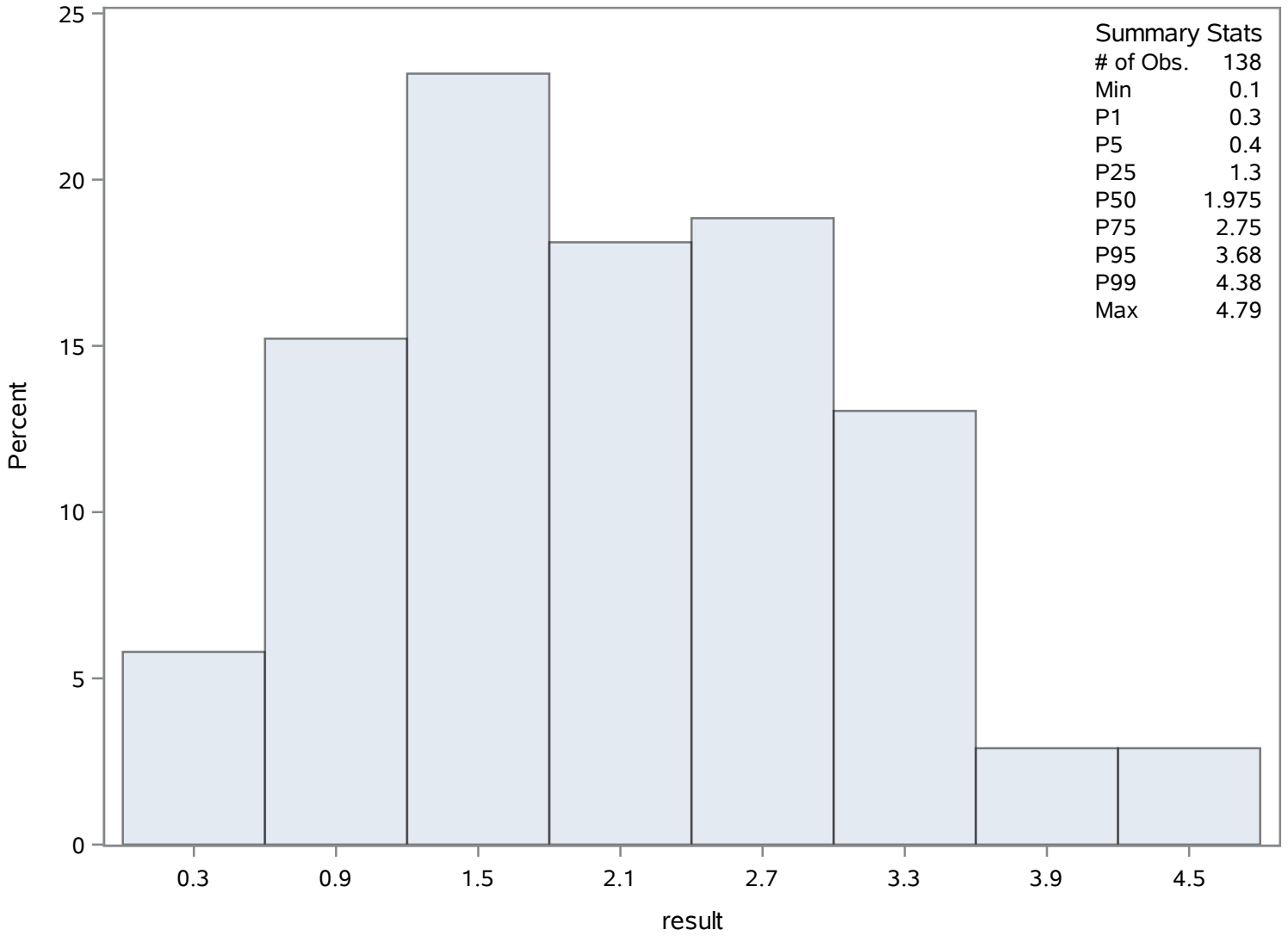
Quantiles (Definition 5)	
Level	Quantile
1%	0.300
0% Min	0.100

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	923	4.08	1005
0.30	953	4.26	987
0.30	905	4.29	996
0.31	956	4.38	984
0.38	944	4.79	1008

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	3.83041304	Sum Observations	528.597
Std Deviation	1.74670012	Variance	3.0509613
Skewness	0.20417336	Kurtosis	-0.5425148
Uncorrected SS	2442.72654	Corrected SS	417.981697
Coeff Variation	45.6008294	Std Error Mean	0.14868899

Basic Statistical Measures			
Location		Variability	
Mean	3.830413	Std Deviation	1.74670
Median	3.718500	Variance	3.05096
Mode	1.500000	Range	7.46000
		Interquartile Range	2.43400

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	25.76124	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.0700
99%	7.9770
95%	6.7280
90%	6.2600
75% Q3	5.0540
50% Median	3.7185
25% Q1	2.6200
10%	1.5000
5%	0.8200

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

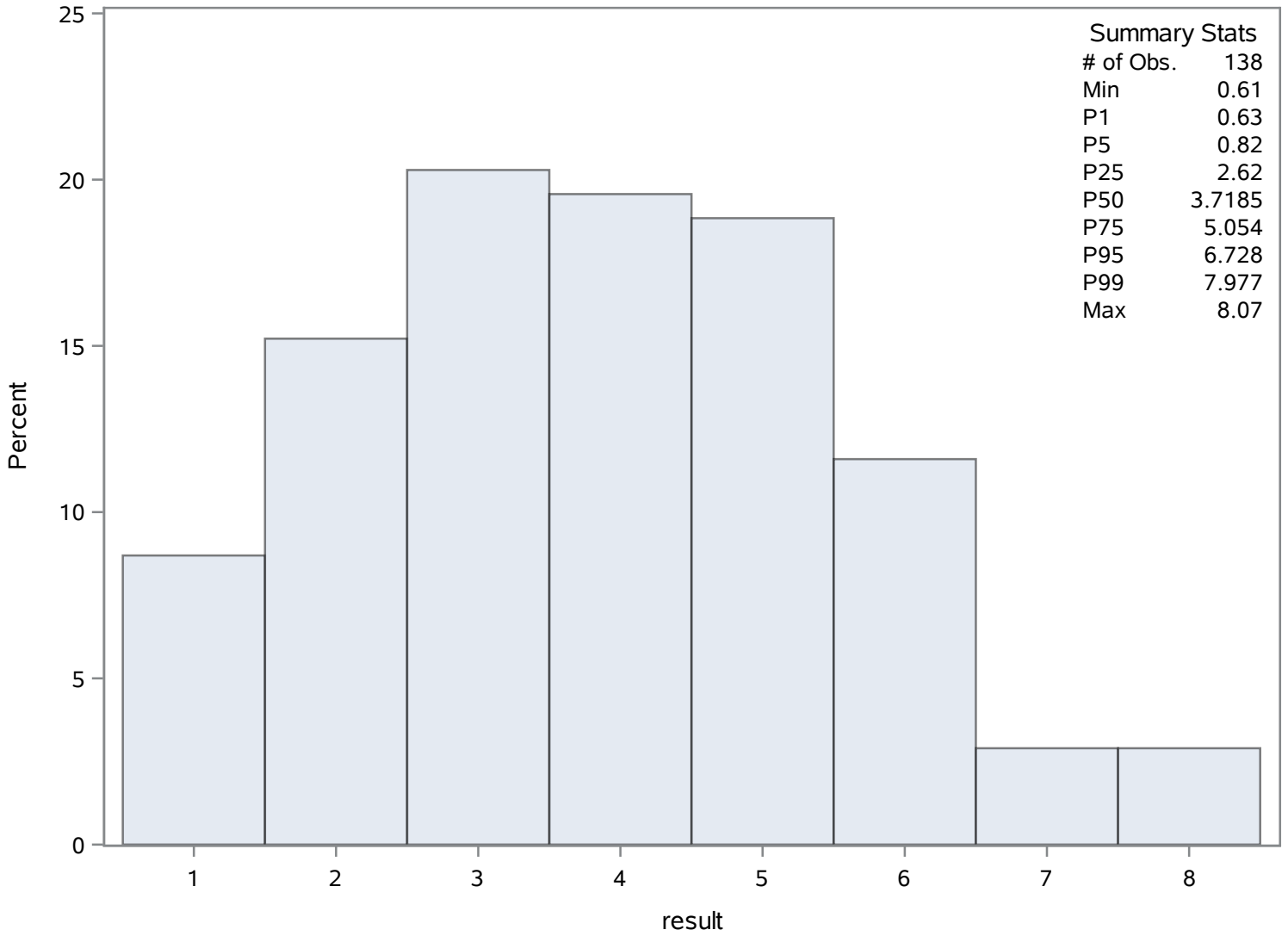
Quantiles (Definition 5)	
Level	Quantile
1%	0.6300
0% Min	0.6100

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.610	1091	6.943	1164
0.630	1094	7.730	1125
0.631	1043	7.761	1134
0.770	1082	7.977	1122
0.803	1040	8.070	1146

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	14.9185185	Sum Observations	2014
Std Deviation	2.64871653	Variance	7.01569928
Skewness	-0.588267	Kurtosis	-0.193109
Uncorrected SS	30986	Corrected SS	940.103704
Coeff Variation	17.7545547	Std Error Mean	0.22796522

Basic Statistical Measures			
Location		Variability	
Mean	14.91852	Std Deviation	2.64872
Median	15.00000	Variance	7.01570
Mode	17.00000	Range	13.00000
		Interquartile Range	4.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	65.44208	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	20
99%	19
95%	18
90%	18
75% Q3	17
50% Median	15
25% Q1	13
10%	11
5%	10
1%	8
0% Min	7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SRP_ugL

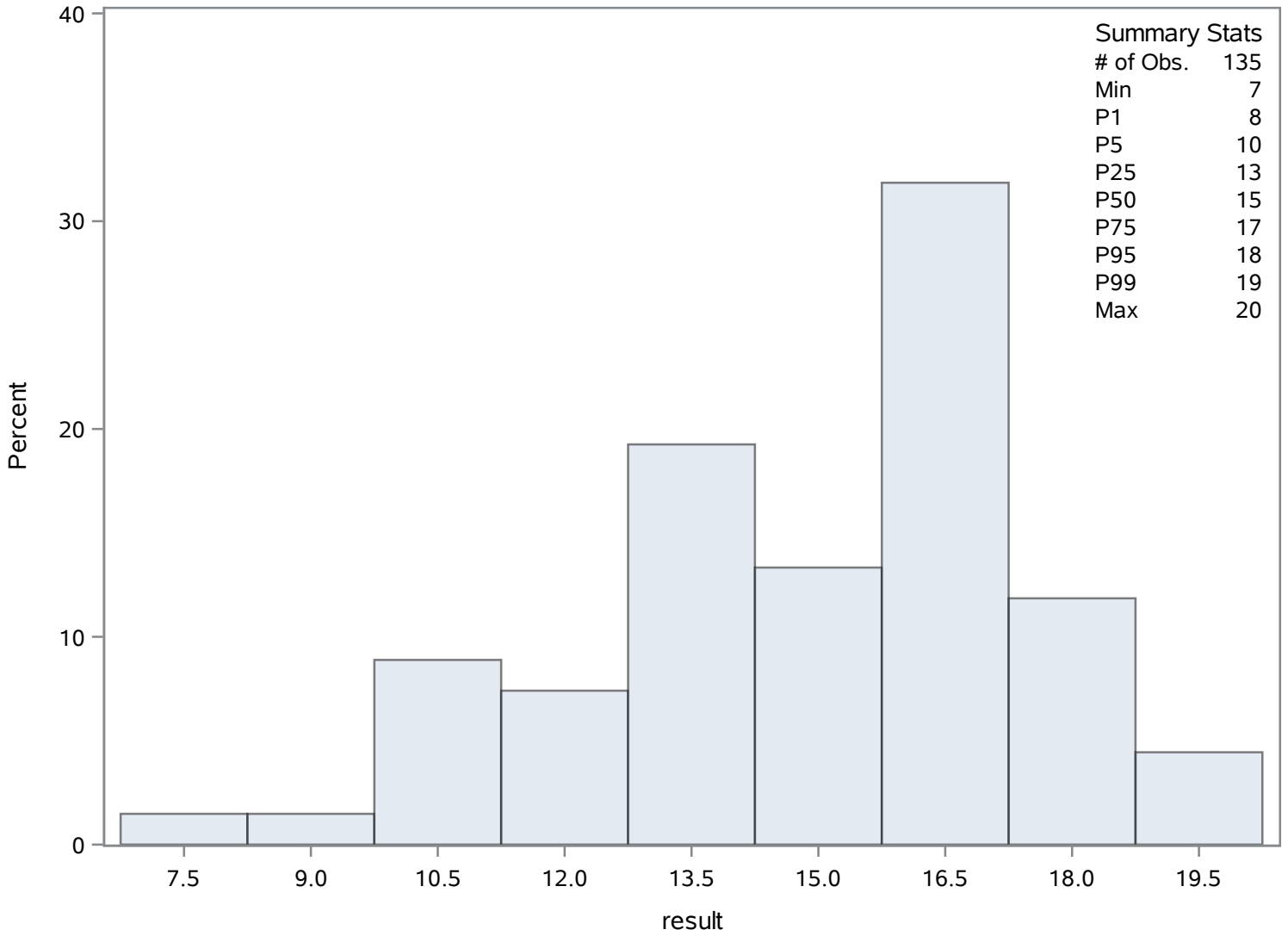
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	1254	19	1238
8	1182	19	1299
9	1267	19	1300
9	1266	19	1301
10	1278	20	1193

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.4989855	Sum Observations	3242.86
Std Deviation	0.99293584	Variance	0.98592159
Skewness	0.40571423	Kurtosis	0.73326232
Uncorrected SS	76338.9914	Corrected SS	135.071258
Coeff Variation	4.22544132	Std Error Mean	0.08452431

Basic Statistical Measures			
Location		Variability	
Mean	23.49899	Std Deviation	0.99294
Median	23.30000	Variance	0.98592
Mode	23.30000	Range	5.90000
		Interquartile Range	1.18000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	278.0145	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.70
99%	25.90
95%	25.50
90%	24.84
75% Q3	24.17
50% Median	23.30
25% Q1	22.99
10%	22.32
5%	21.98
1%	21.20
0% Min	20.80

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TEMP_C

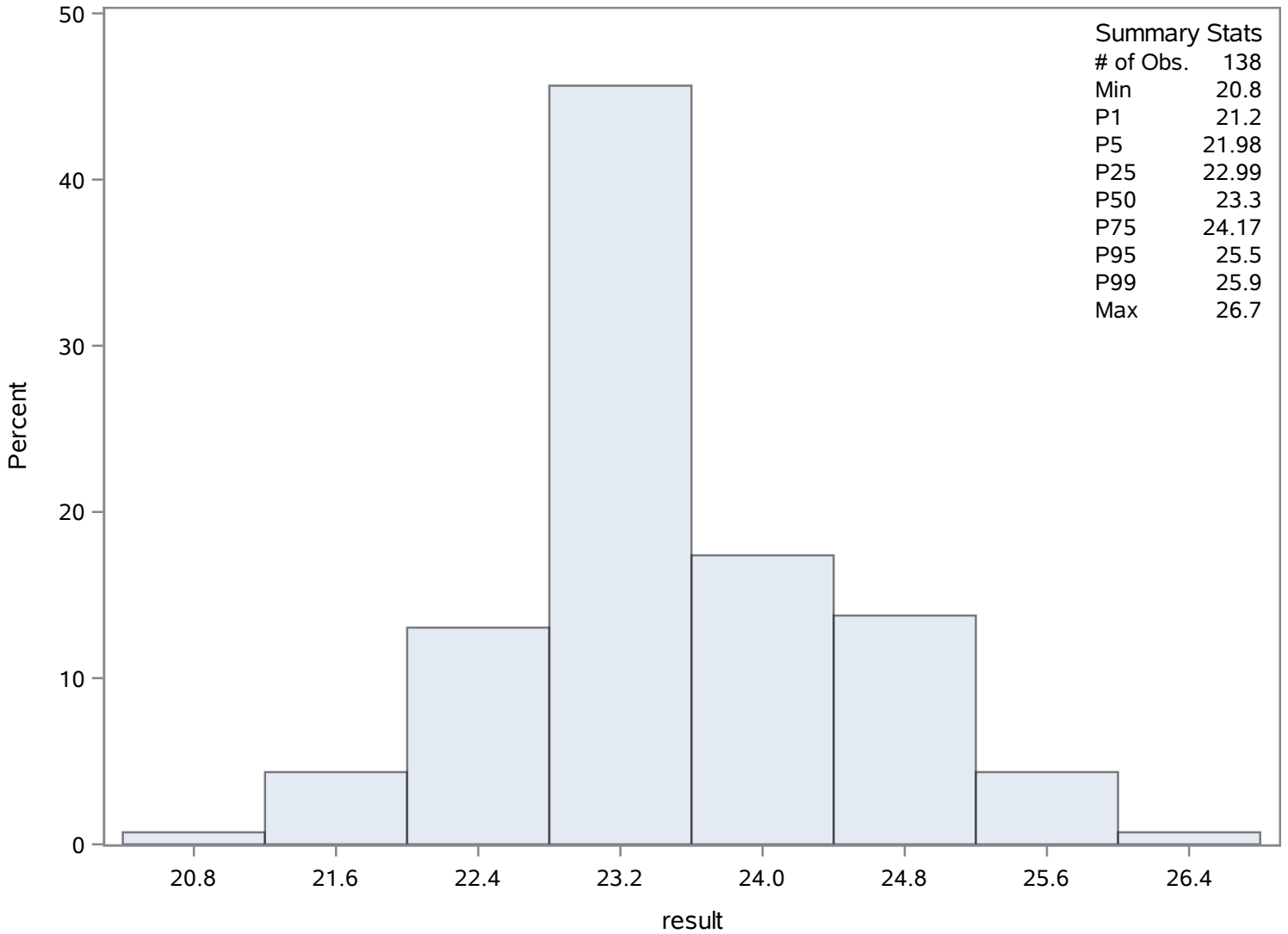
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.80	1340	25.63	1404
21.20	1376	25.84	1406
21.30	1319	25.90	1332
21.50	1339	25.90	1333
21.83	1343	26.70	1334

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	546.514493	Sum Observations	75419
Std Deviation	93.1169295	Variance	8670.76256
Skewness	-0.3081938	Kurtosis	-0.4774321
Uncorrected SS	42405471	Corrected SS	1187894.47
Coeff Variation	17.0383276	Std Error Mean	7.92663944

Basic Statistical Measures			
Location		Variability	
Mean	546.5145	Std Deviation	93.11693
Median	560.0000	Variance	8671
Mode	560.0000	Range	424.00000
		Interquartile Range	130.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	68.94656	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	740
99%	720
95%	700
90%	660
75% Q3	610
50% Median	560
25% Q1	480
10%	410
5%	383
1%	320
0% Min	316

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TN_ugl

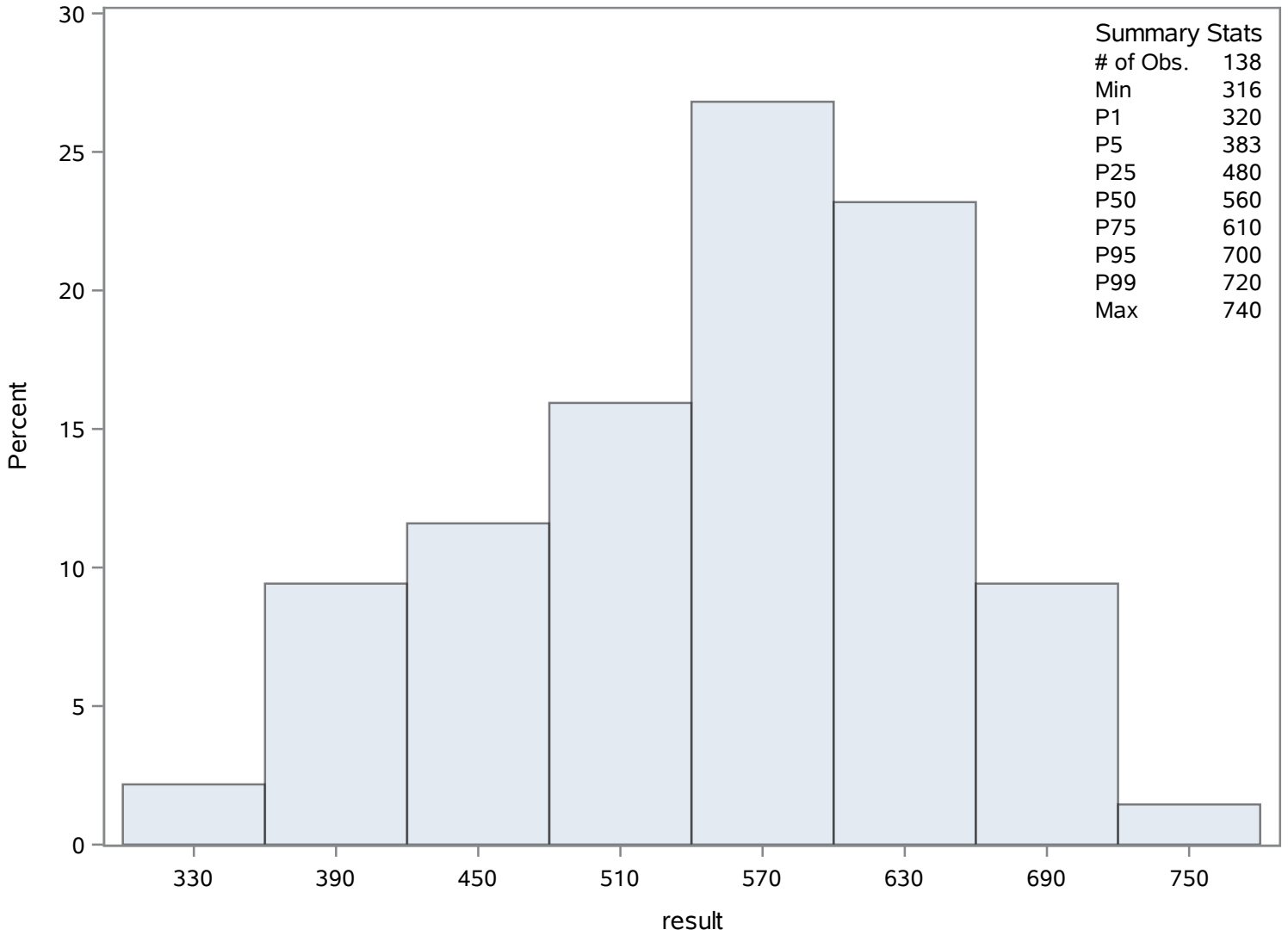
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
316	1544	708	1555
320	1471	710	1550
340	1470	710	1574
360	1463	720	1548
380	1460	740	1552

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	20.1304348	Sum Observations	2778
Std Deviation	4.75812956	Variance	22.6397969
Skewness	0.70282445	Kurtosis	1.11723953
Uncorrected SS	59024	Corrected SS	3101.65217
Coeff Variation	23.6364967	Std Error Mean	0.40503889

Basic Statistical Measures			
Location		Variability	
Mean	20.13043	Std Deviation	4.75813
Median	20.00000	Variance	22.63980
Mode	21.00000	Range	28.00000
		Interquartile Range	5.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	49.70001	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	34
99%	33
95%	31
90%	28
75% Q3	22
50% Median	20
25% Q1	17
10%	15
5%	14
1%	10
0% Min	6

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TP_ugl

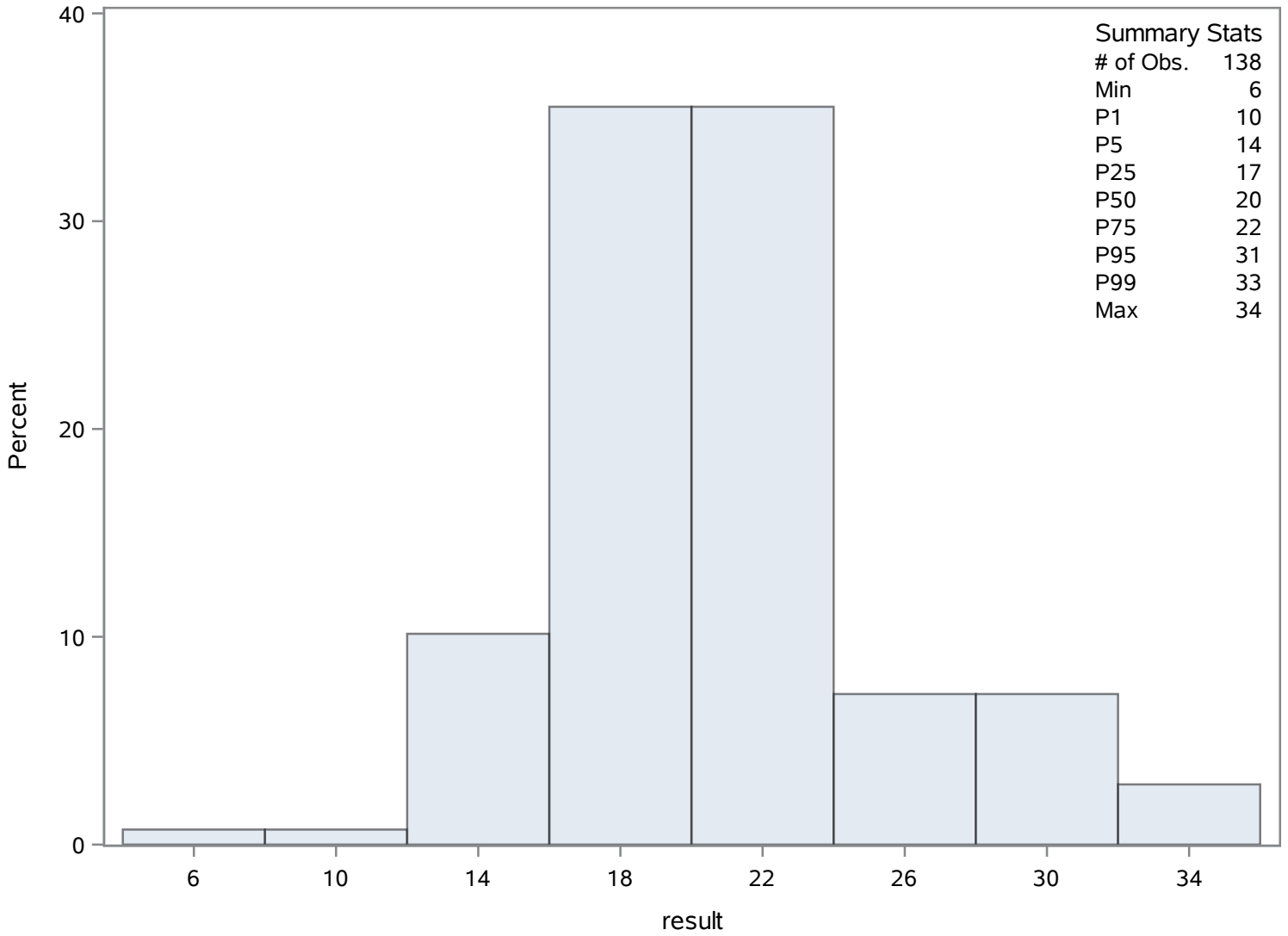
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6	1722	31	1712
10	1596	32	1612
12	1704	32	1691
12	1668	33	1695
13	1707	34	1643

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: UF 5 Rivers Study

Transect 1

pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.64388889	Sum Observations	825.54
Std Deviation	0.18667195	Variance	0.03484642
Skewness	0.77343995	Kurtosis	0.83971801
Uncorrected SS	6314.0646	Corrected SS	3.72856667
Coeff Variation	2.44210708	Std Error Mean	0.01796252

Basic Statistical Measures			
Location		Variability	
Mean	7.643889	Std Deviation	0.18667
Median	7.610000	Variance	0.03485
Mode	7.780000	Range	1.03000
		Interquartile Range	0.28500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	425.5466	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.320
99%	8.170
95%	7.950
90%	7.870
75% Q3	7.780
50% Median	7.610
25% Q1	7.495
10%	7.440
5%	7.390
1%	7.330
0% Min	7.290

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Field

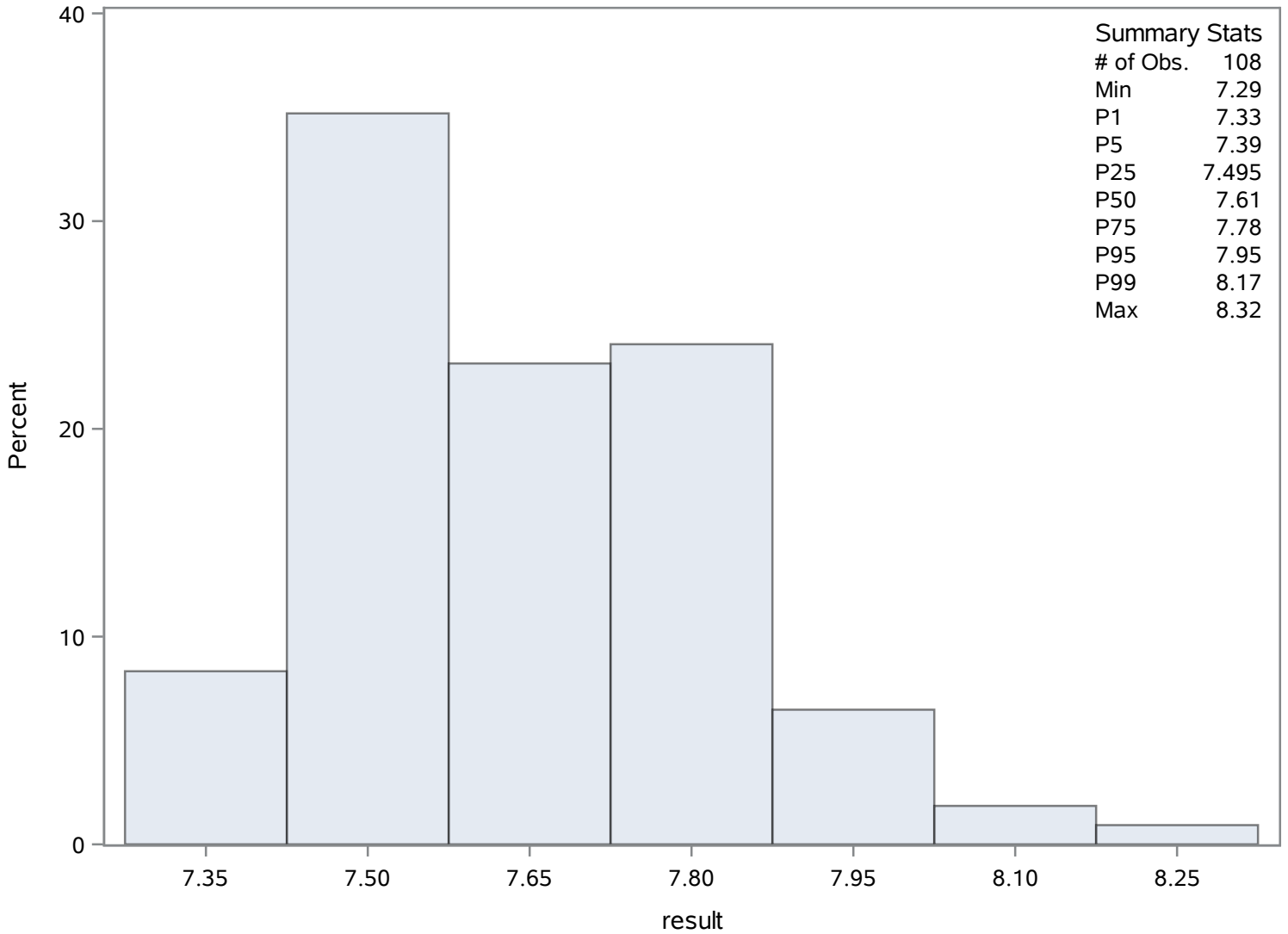
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.29	1792	7.96	1776
7.33	1793	7.98	1746
7.35	1815	8.10	1788
7.39	1780	8.17	1789
7.39	1732	8.32	1790

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.77463768	Sum Observations	1072.9
Std Deviation	0.19818947	Variance	0.03927906
Skewness	2.64754399	Kurtosis	9.67673604
Uncorrected SS	8346.79	Corrected SS	5.38123188
Coeff Variation	2.54917946	Std Error Mean	0.01687101

Basic Statistical Measures			
Location		Variability	
Mean	7.774638	Std Deviation	0.19819
Median	7.700000	Variance	0.03928
Mode	7.700000	Range	1.30000
		Interquartile Range	0.10000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	460.8283	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.8
99%	8.7
95%	8.1
90%	7.9
75% Q3	7.8
50% Median	7.7
25% Q1	7.7
10%	7.6
5%	7.6
1%	7.5
0% Min	7.5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Lab

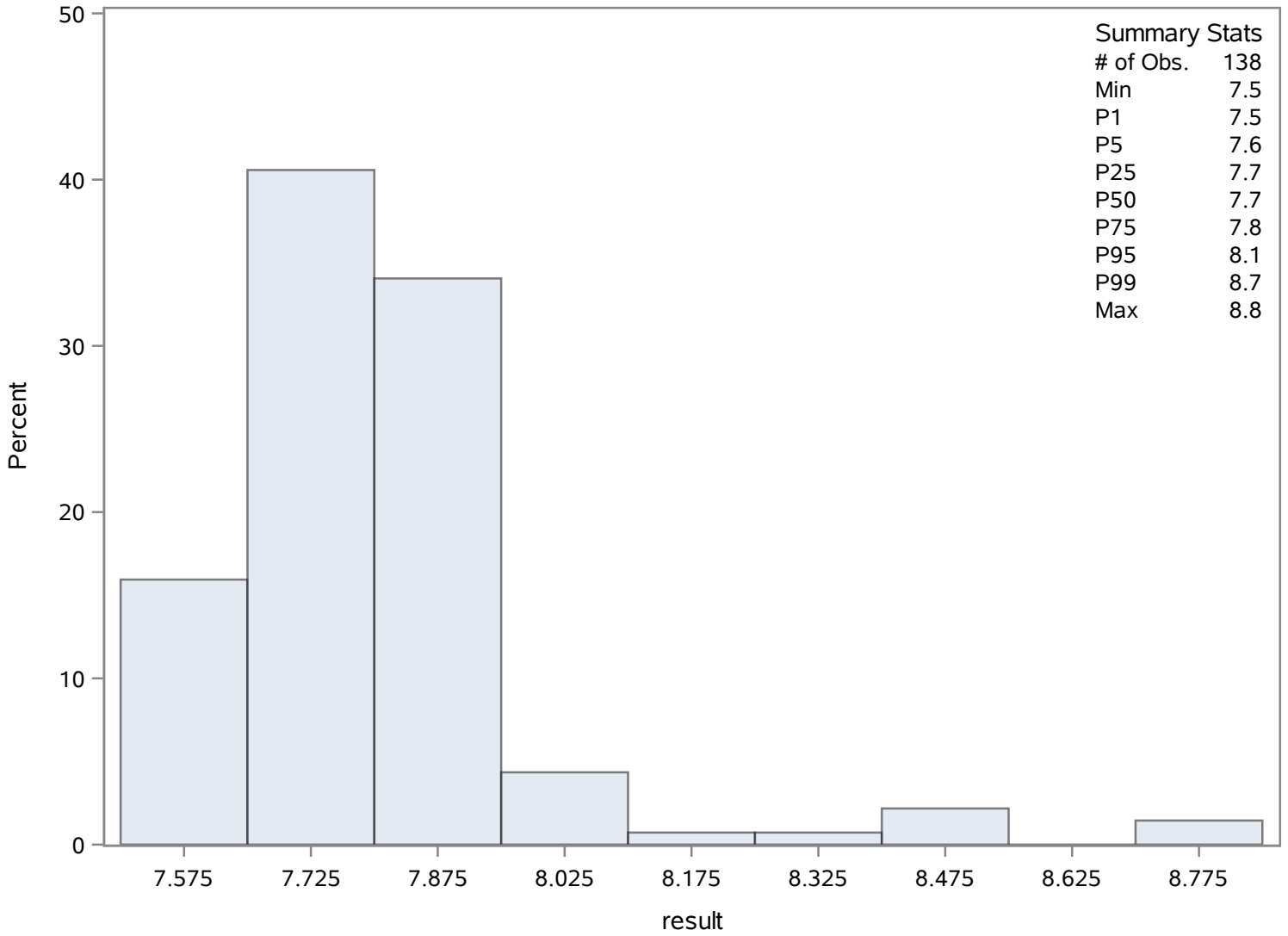
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.5	1967	8.4	1855
7.5	1966	8.4	1927
7.5	1965	8.5	1854
7.5	1859	8.7	1856
7.5	1858	8.8	1928

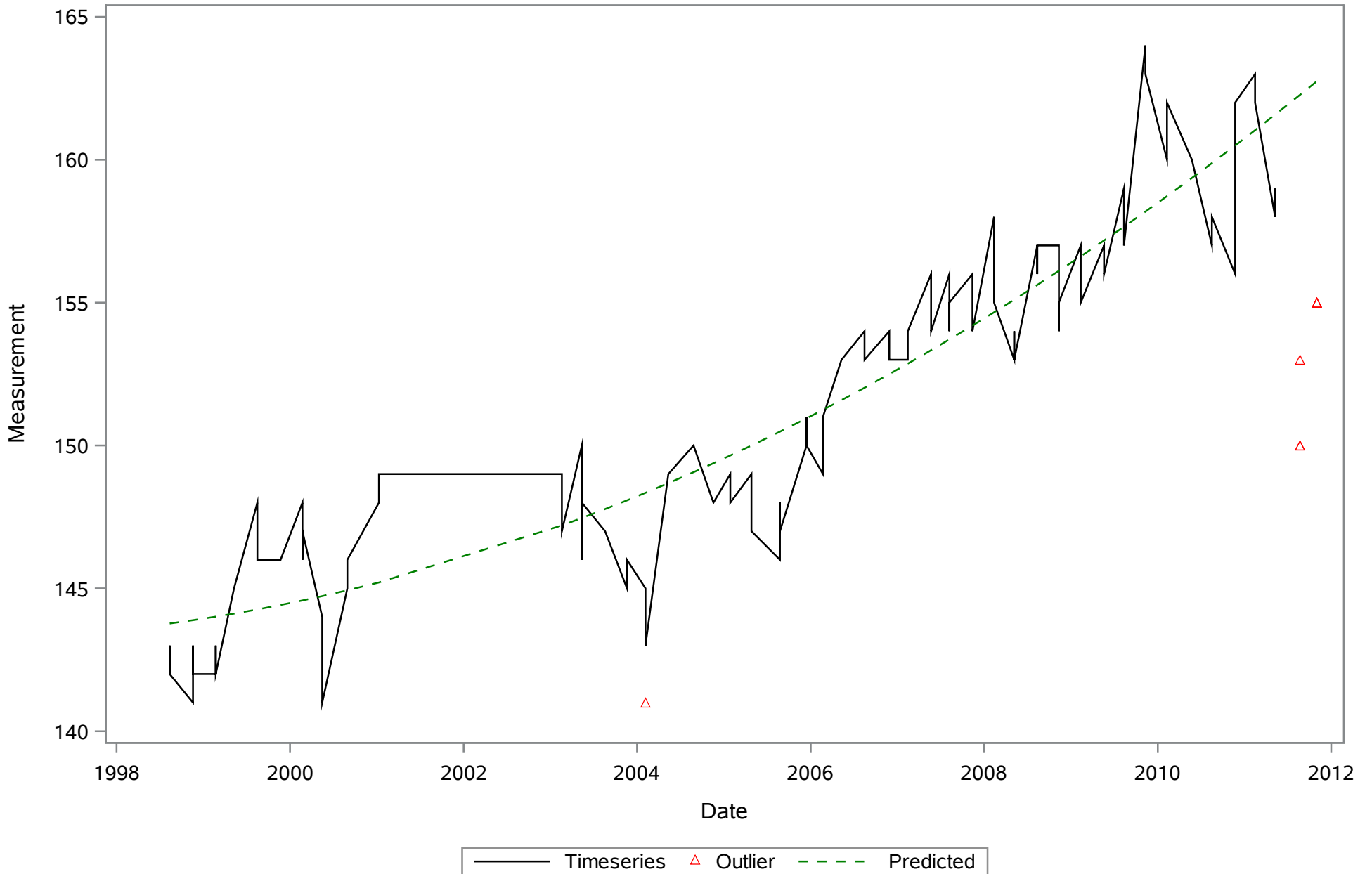
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Lab

The UNIVARIATE Procedure

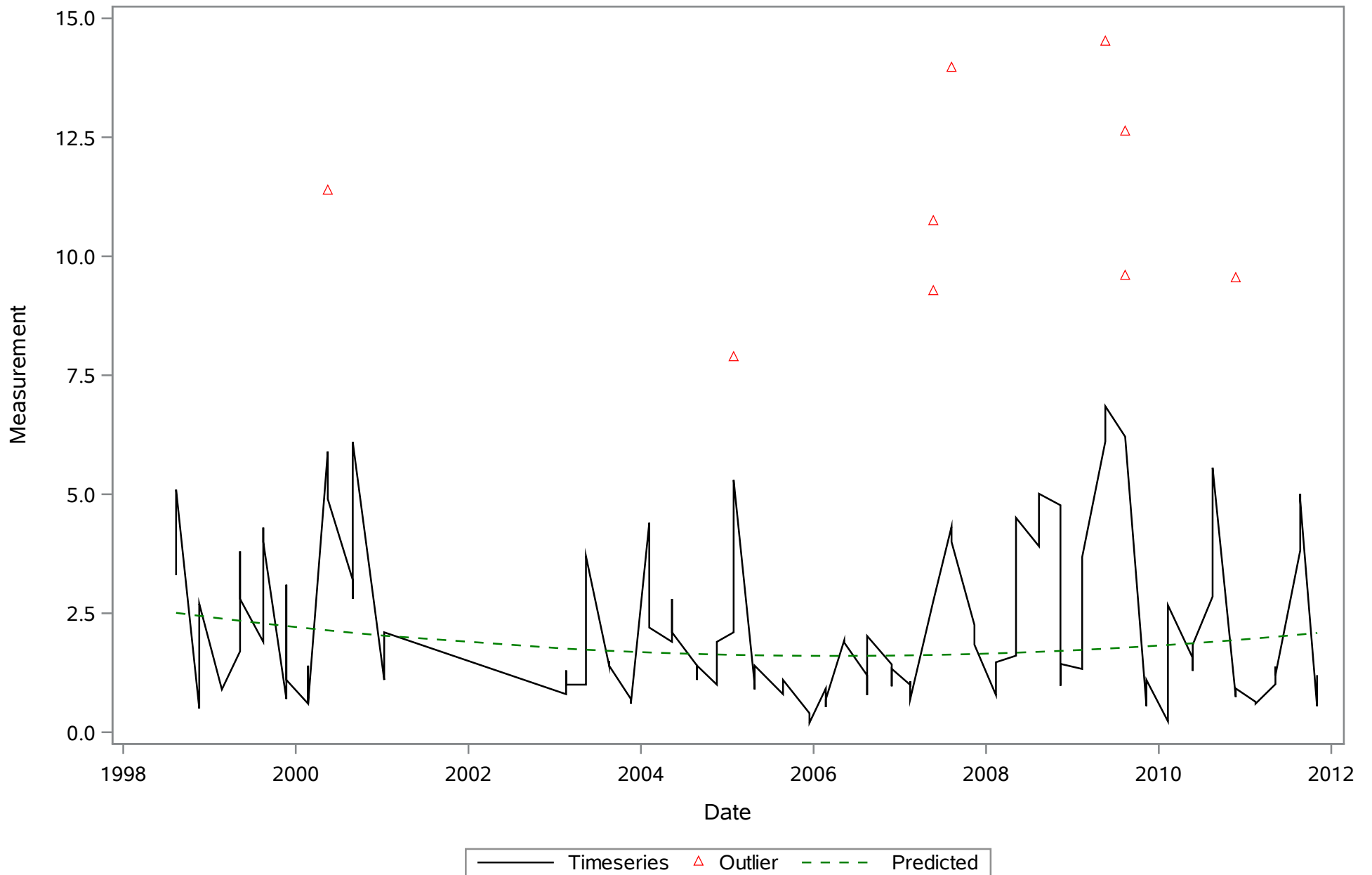
Distribution of result



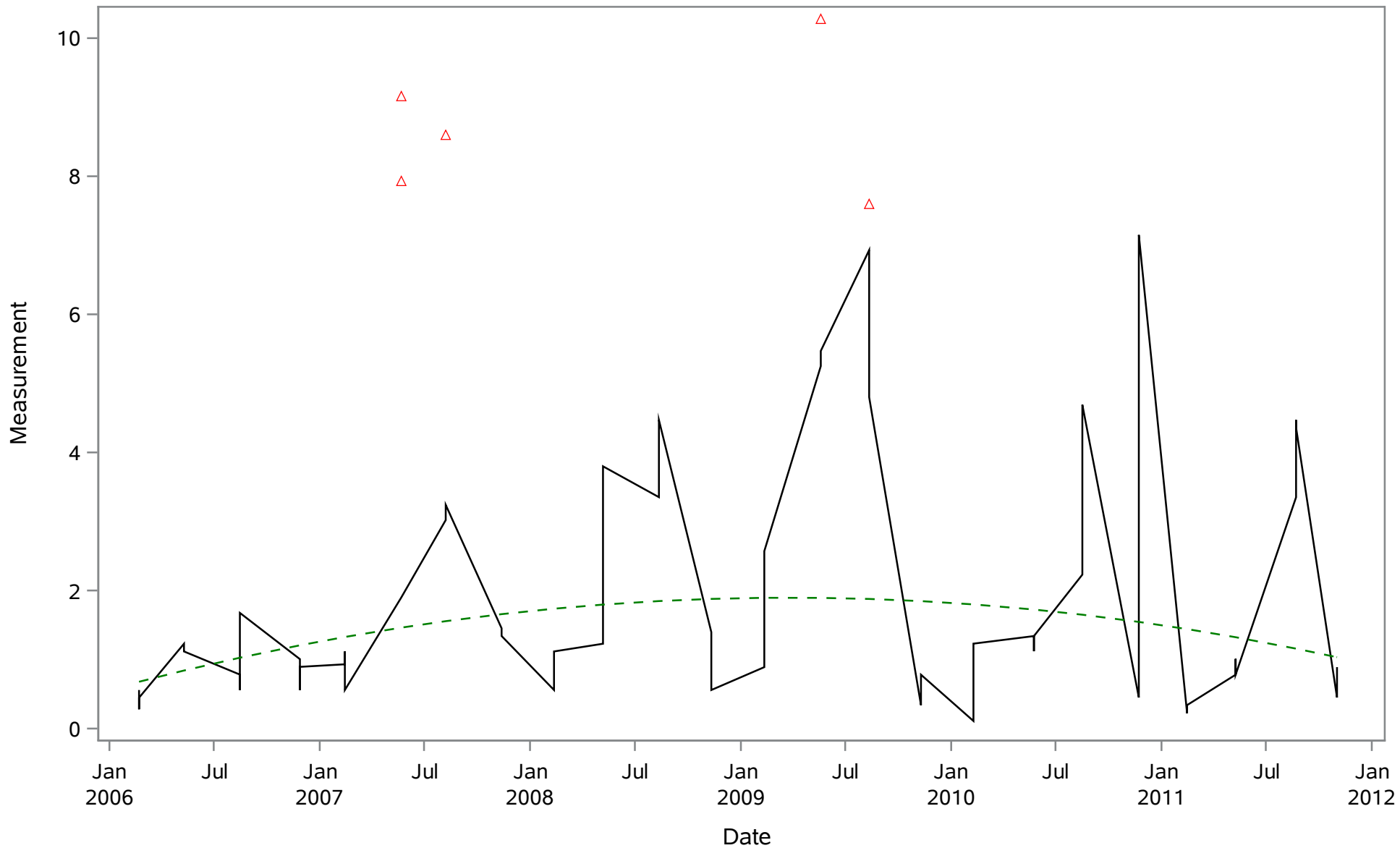
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_Uncor_ugL

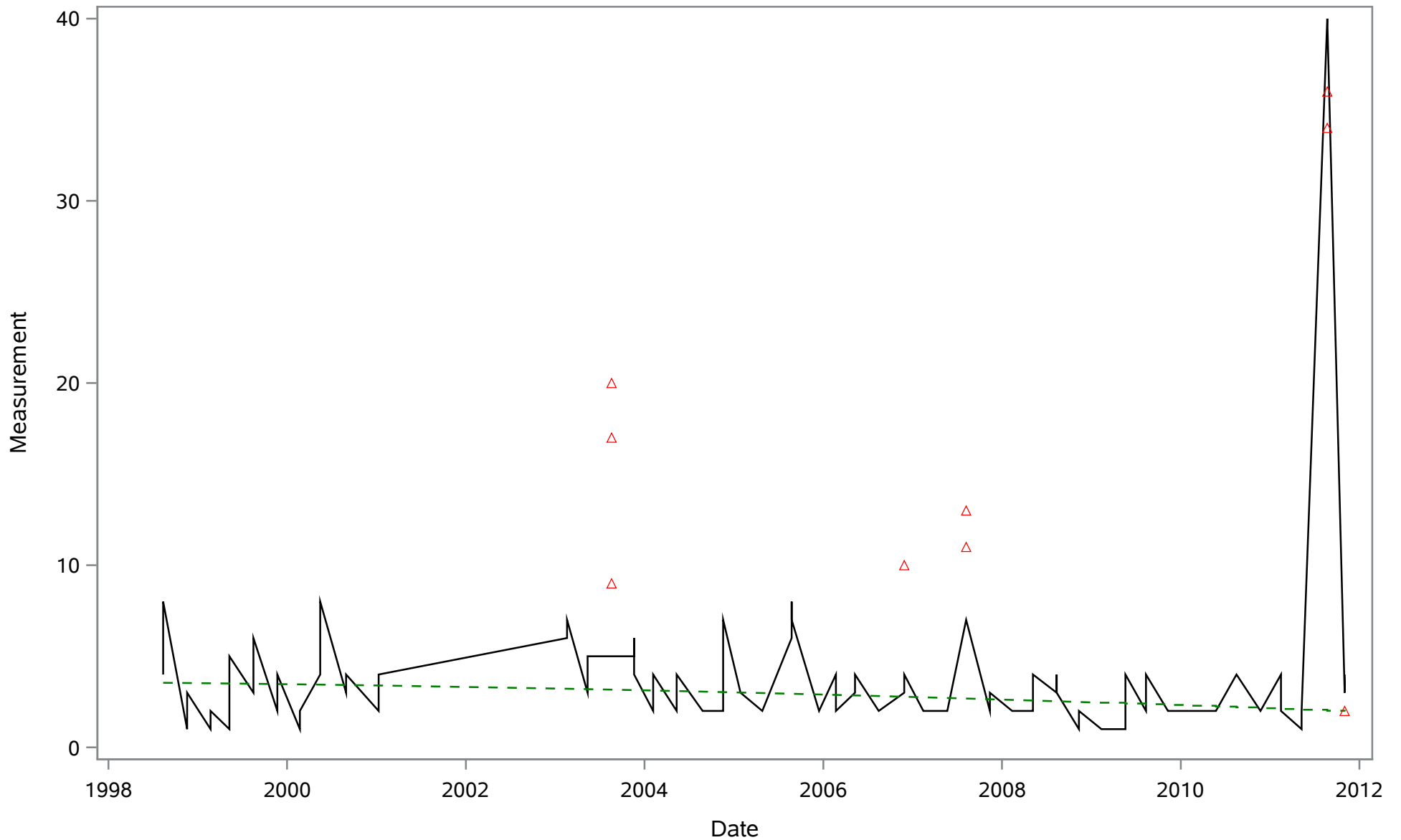


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_cor_uvl



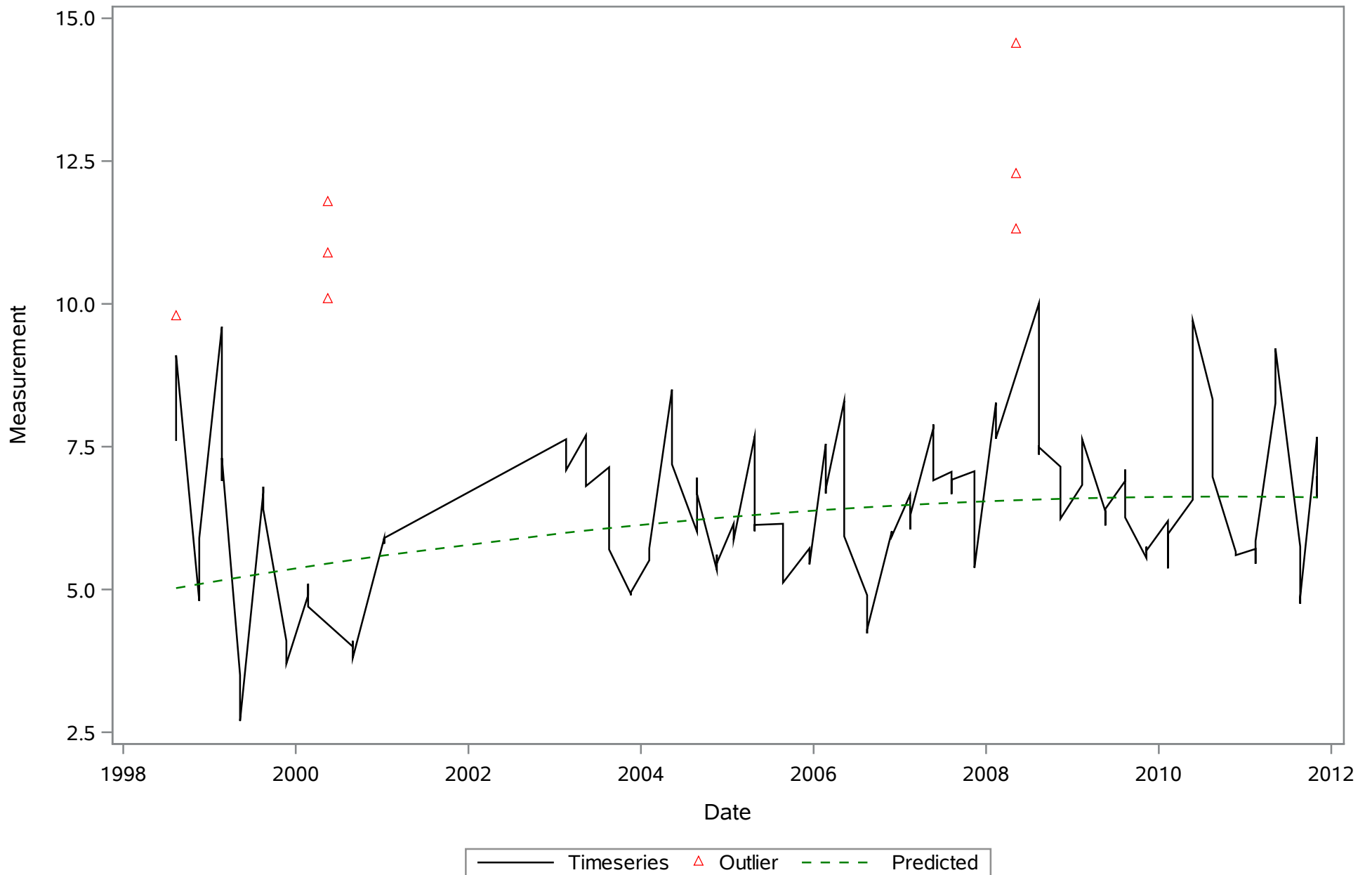
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
COLOR_PtCo

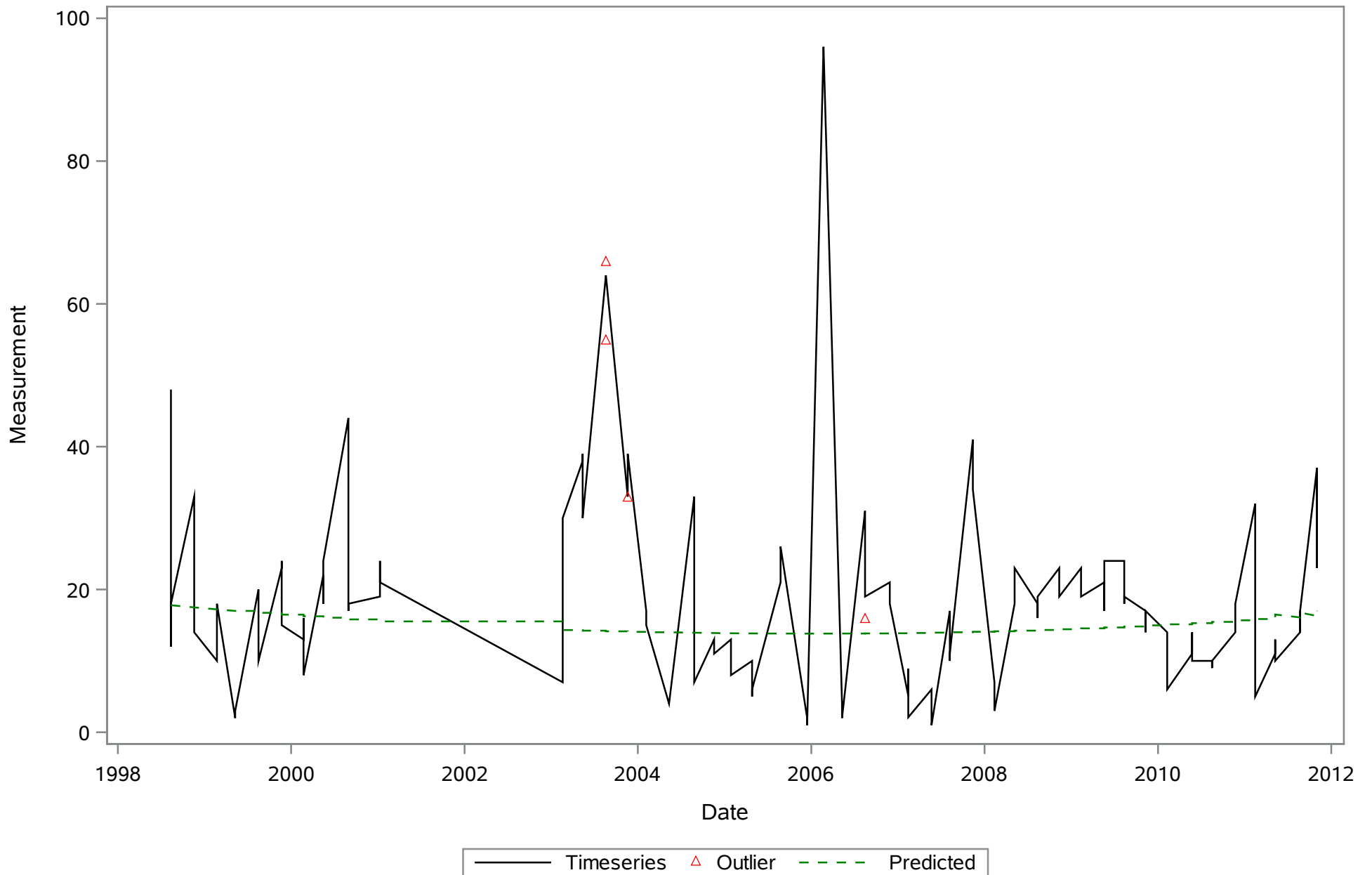


— Timeseries △ Outlier - - - Predicted

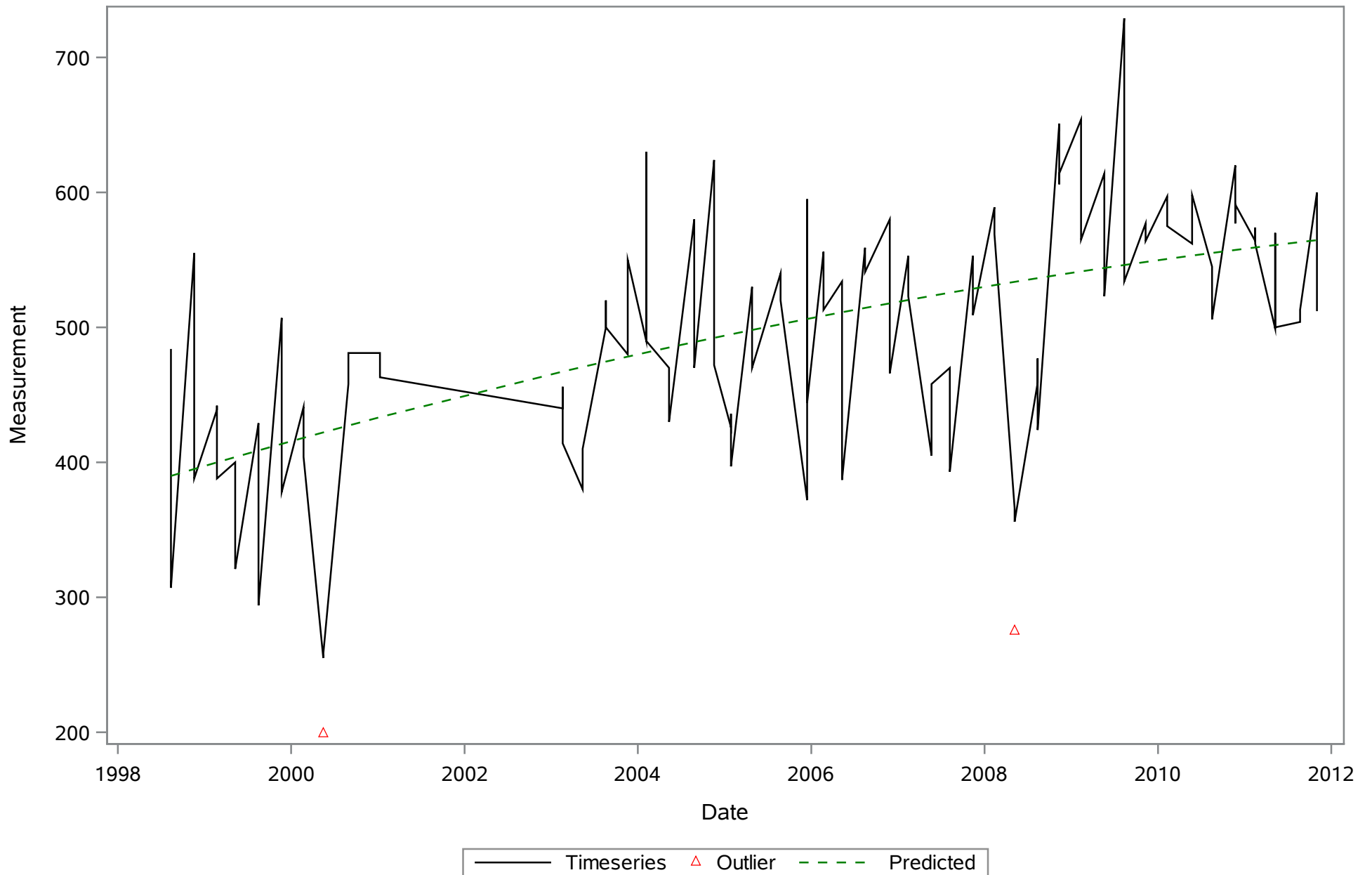
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
DO_mgL



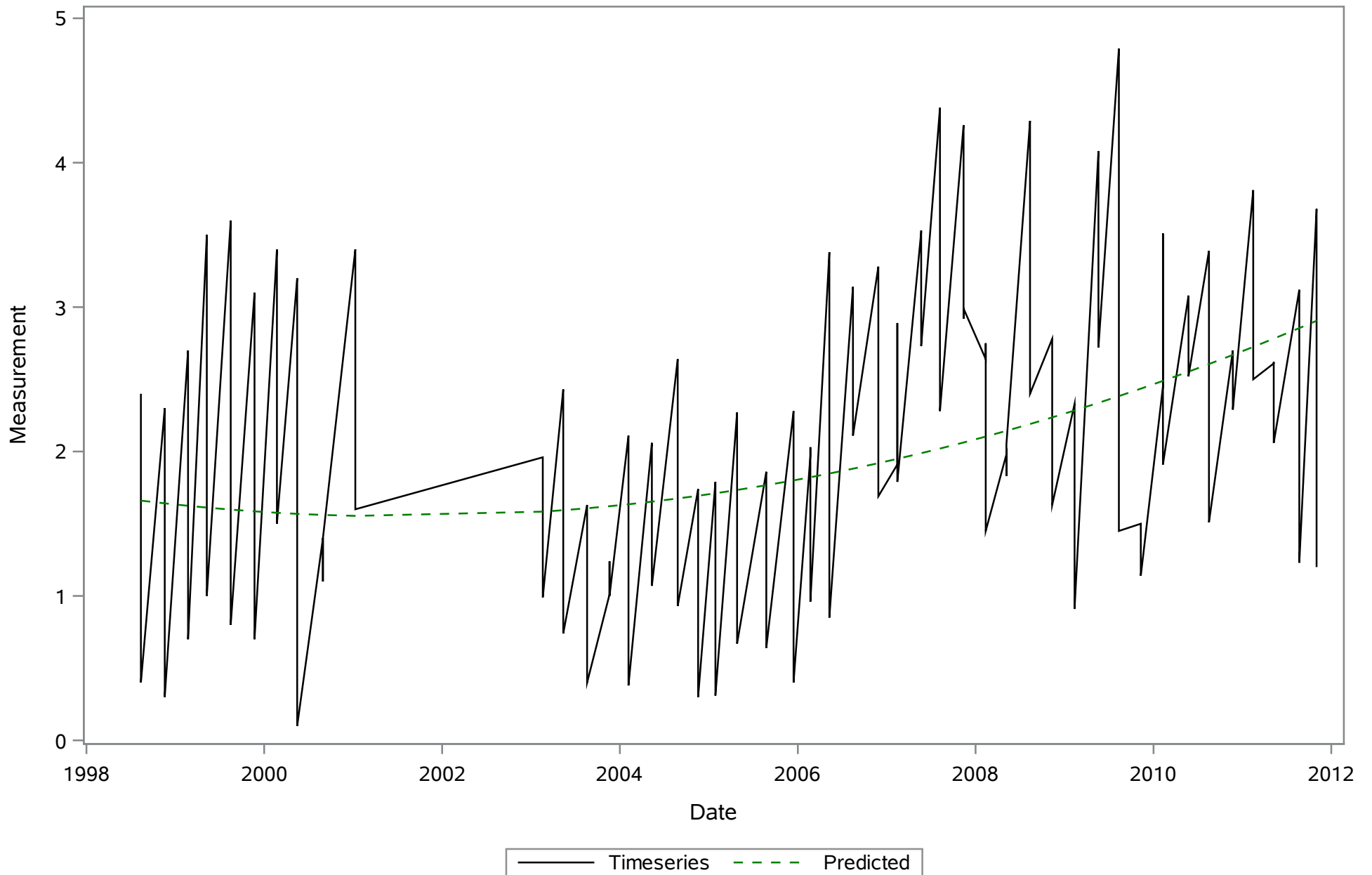
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NH₄_ugl



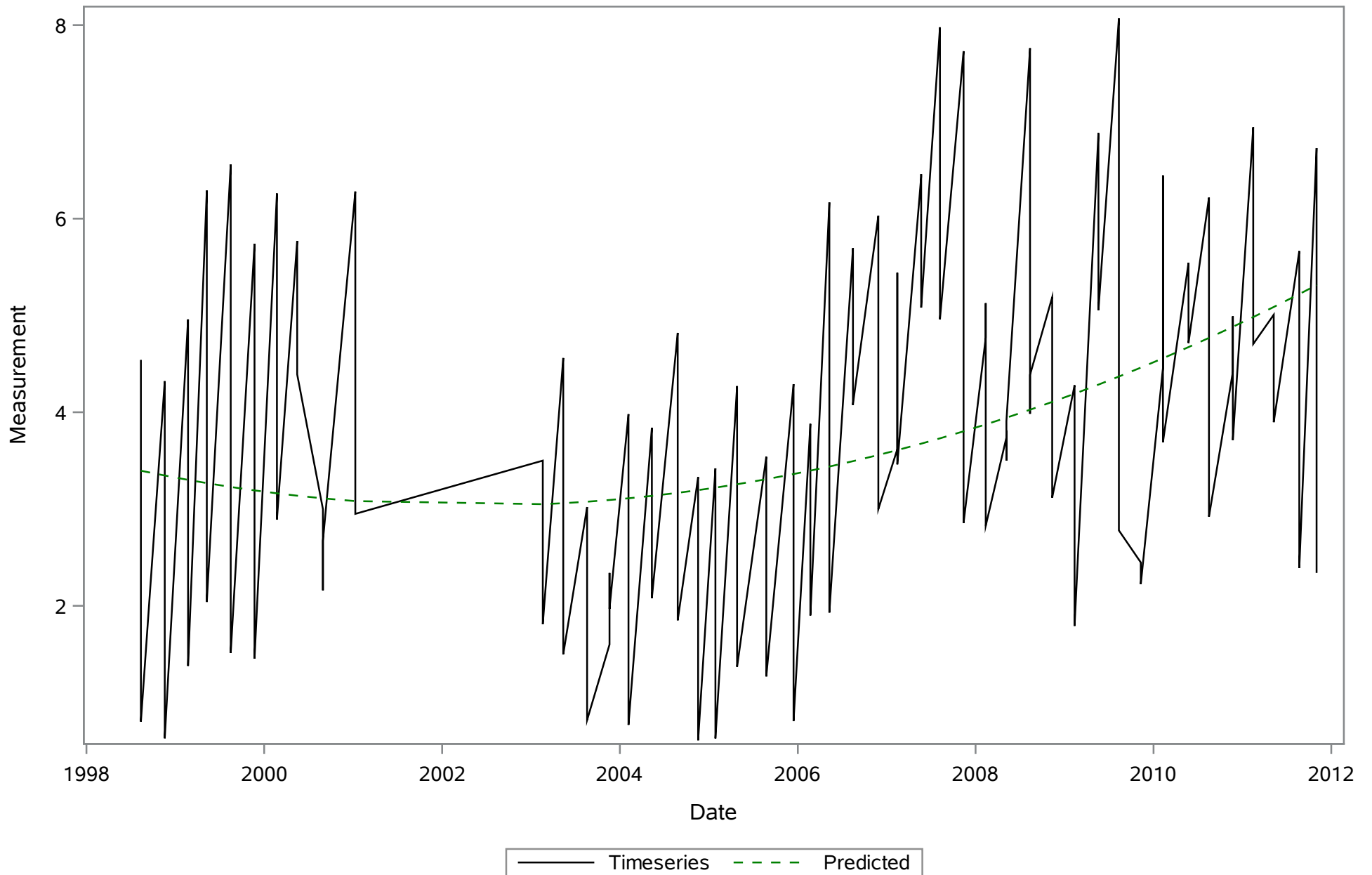
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NO3_ugL



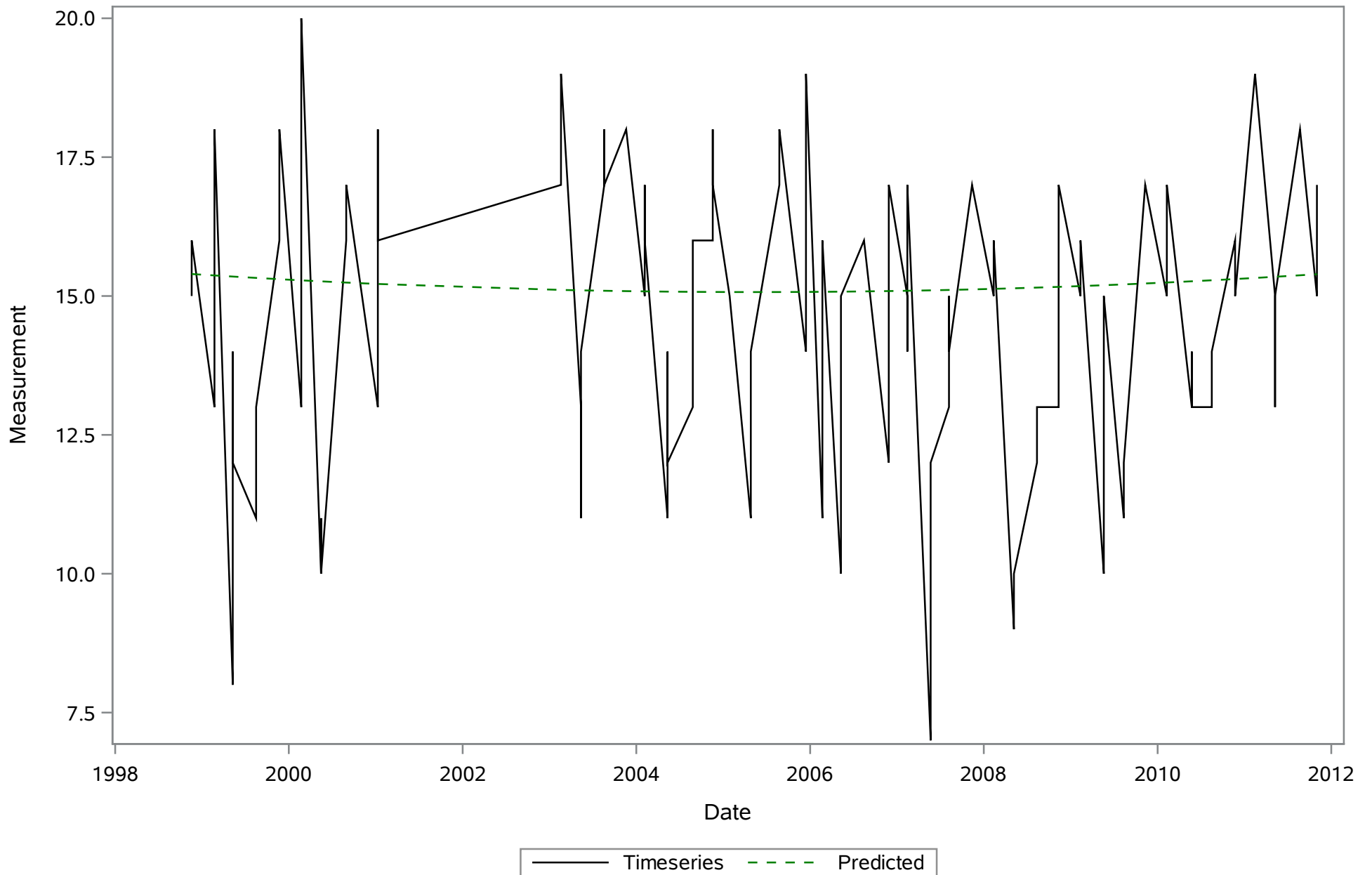
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SAL_Perc



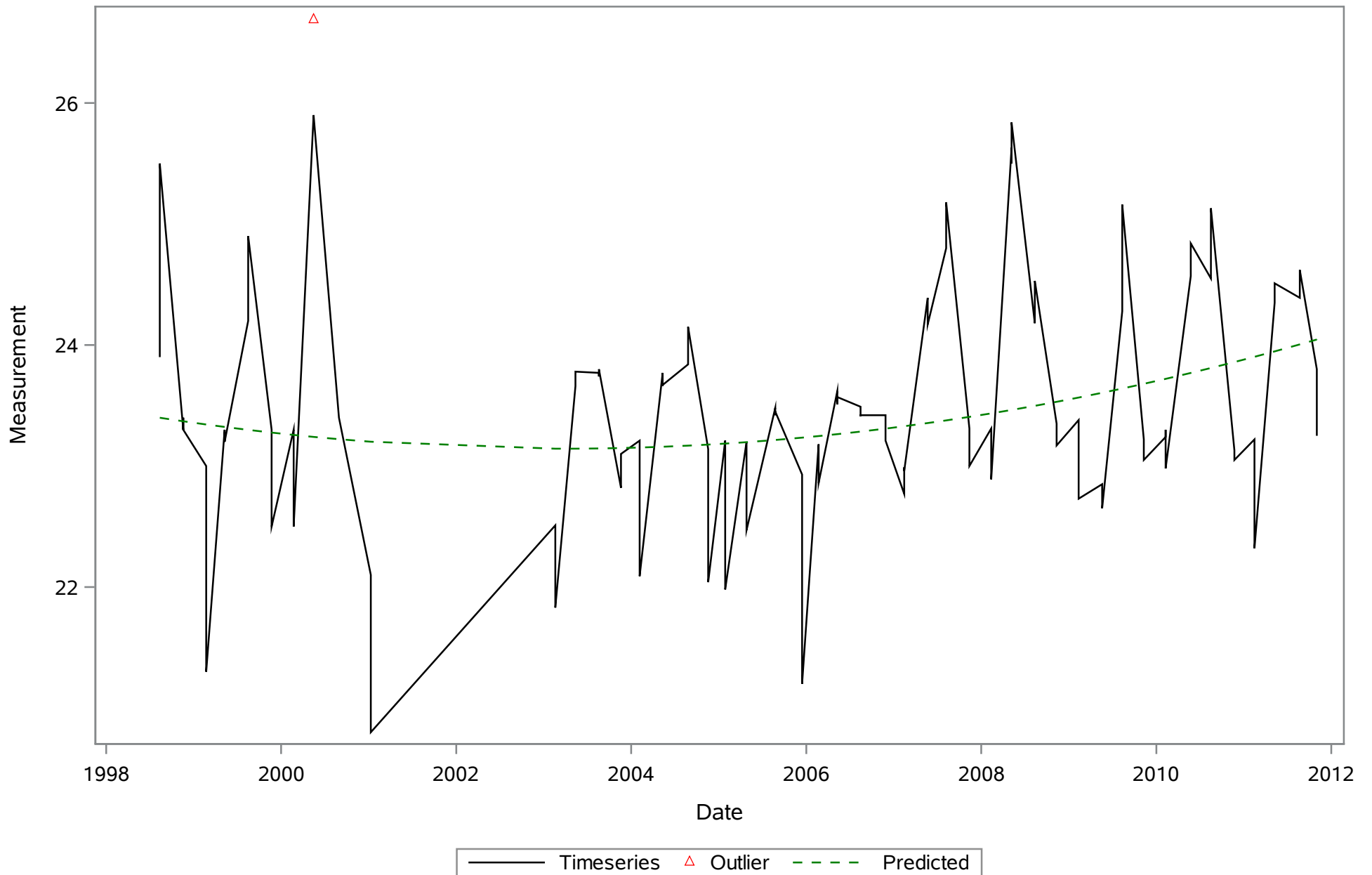
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SPCOND_mS_cm



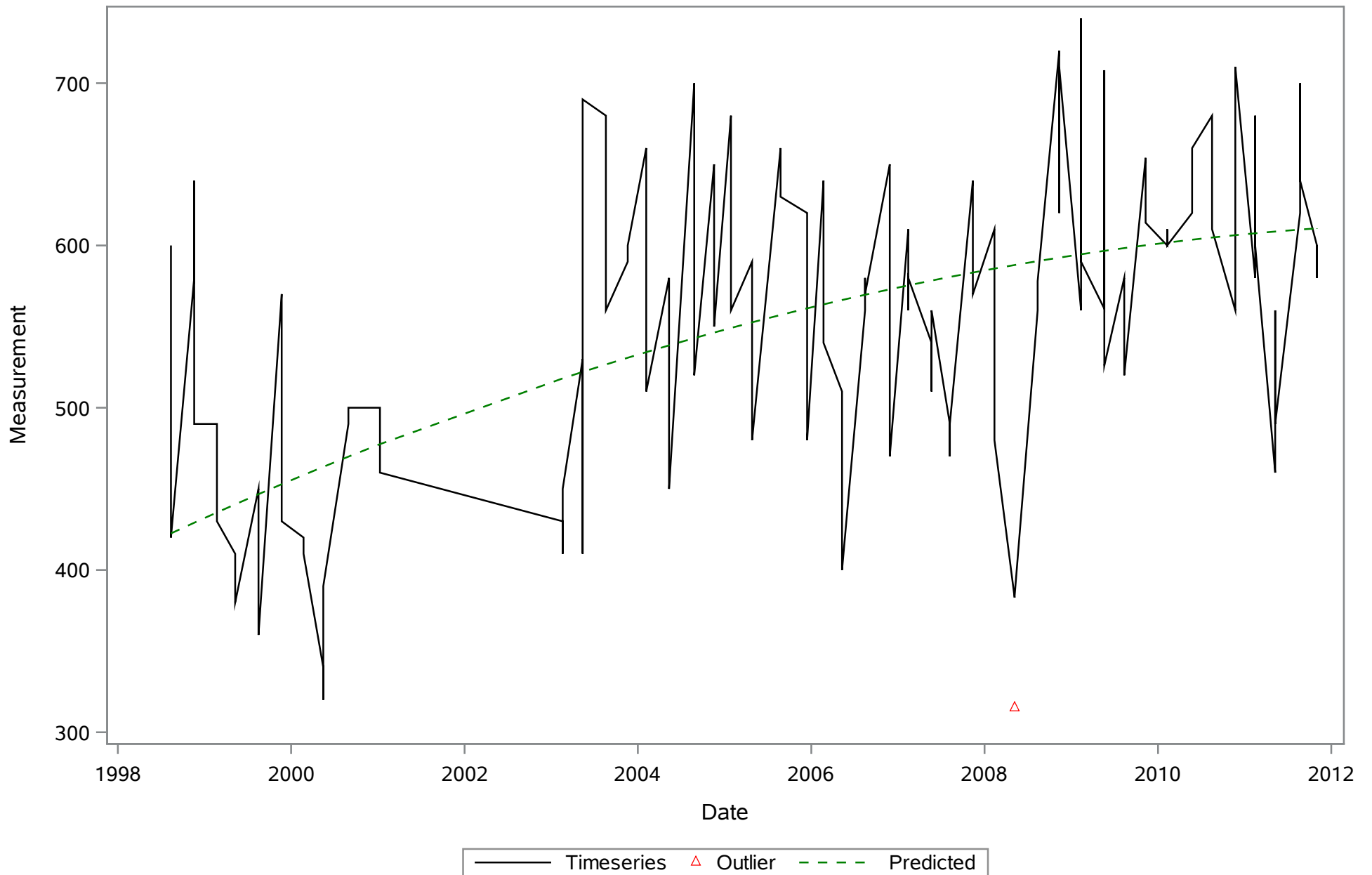
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SRP_ugL



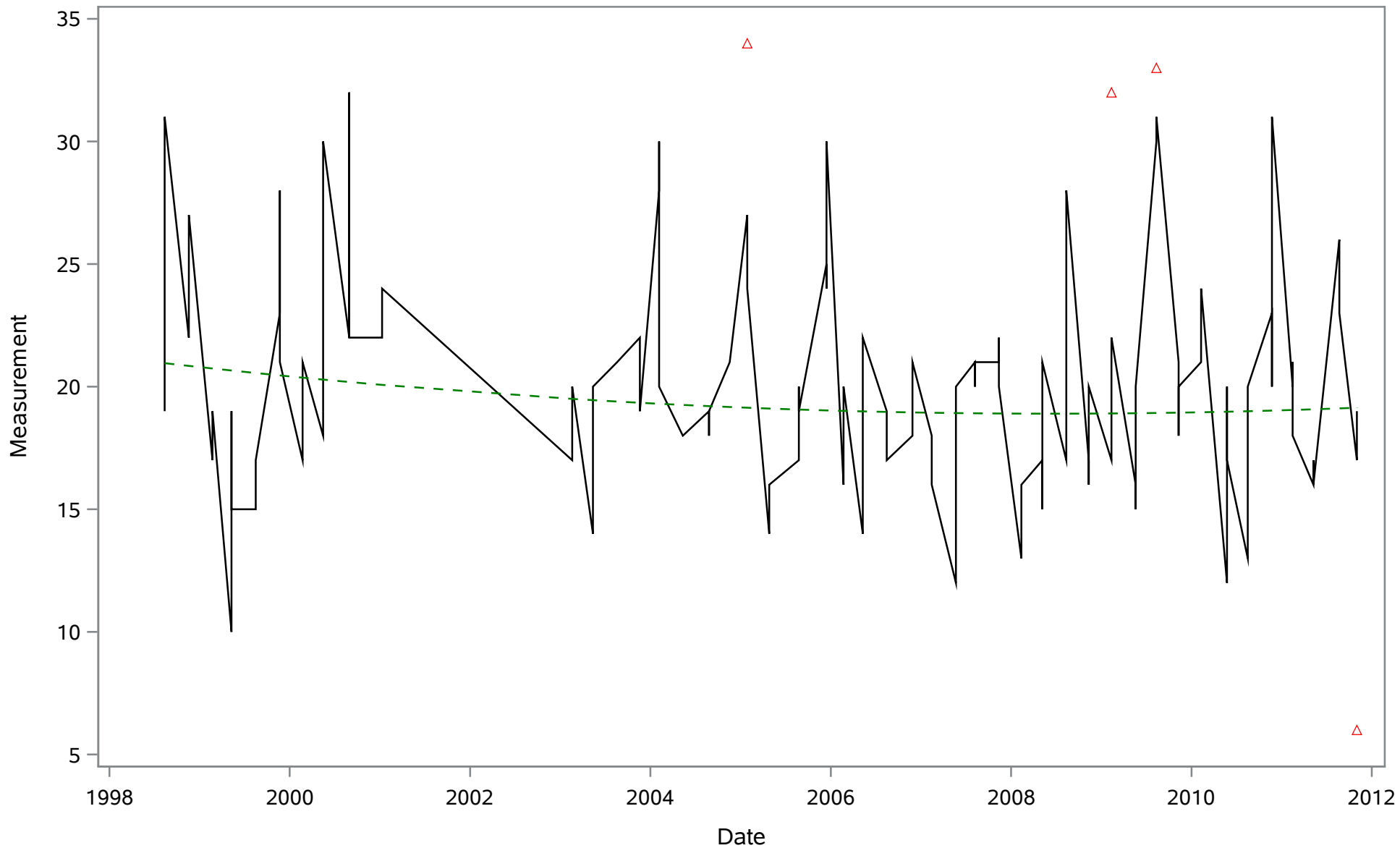
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TEMP_C



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TN_ugl

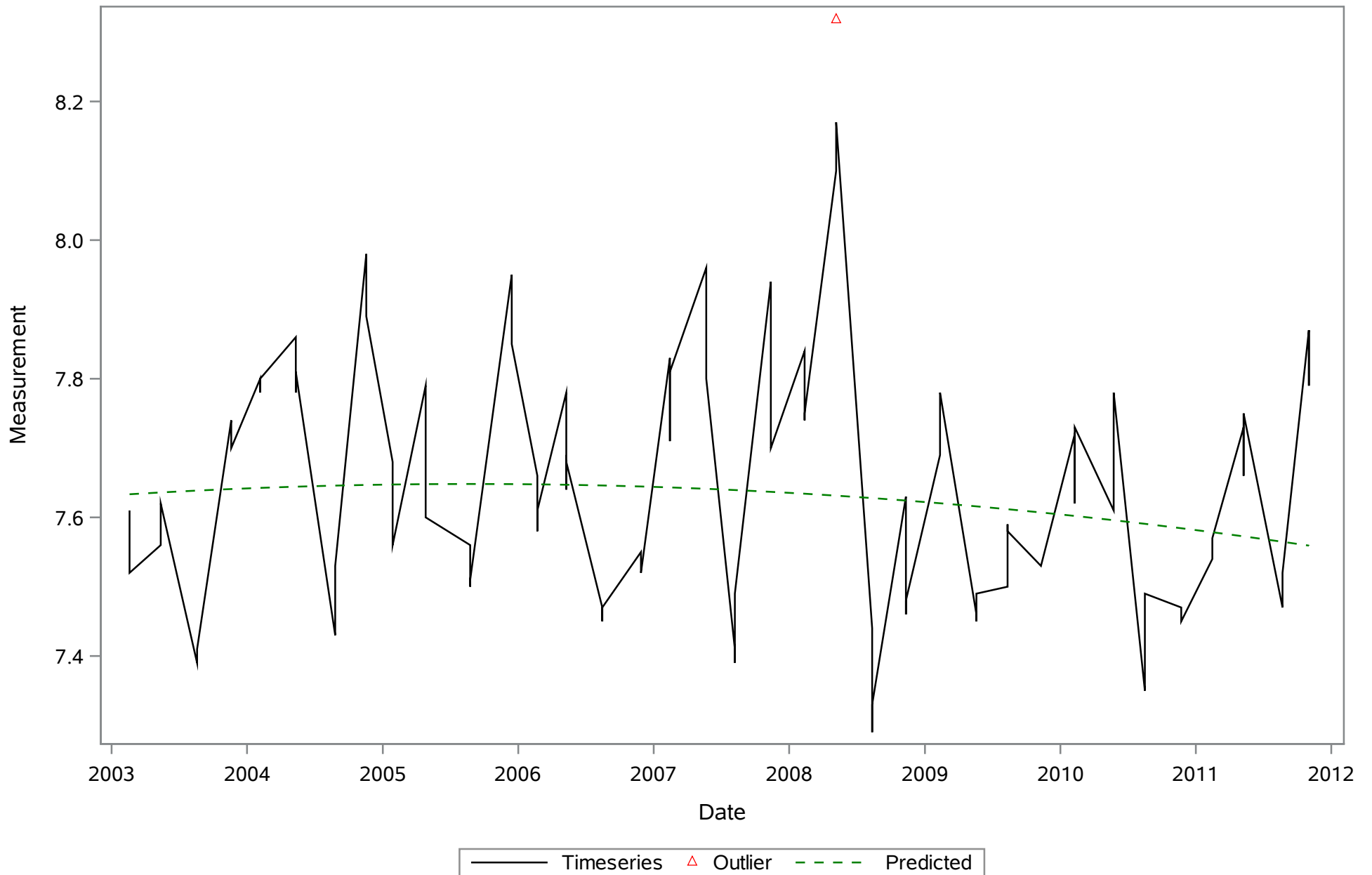


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TP_ugl



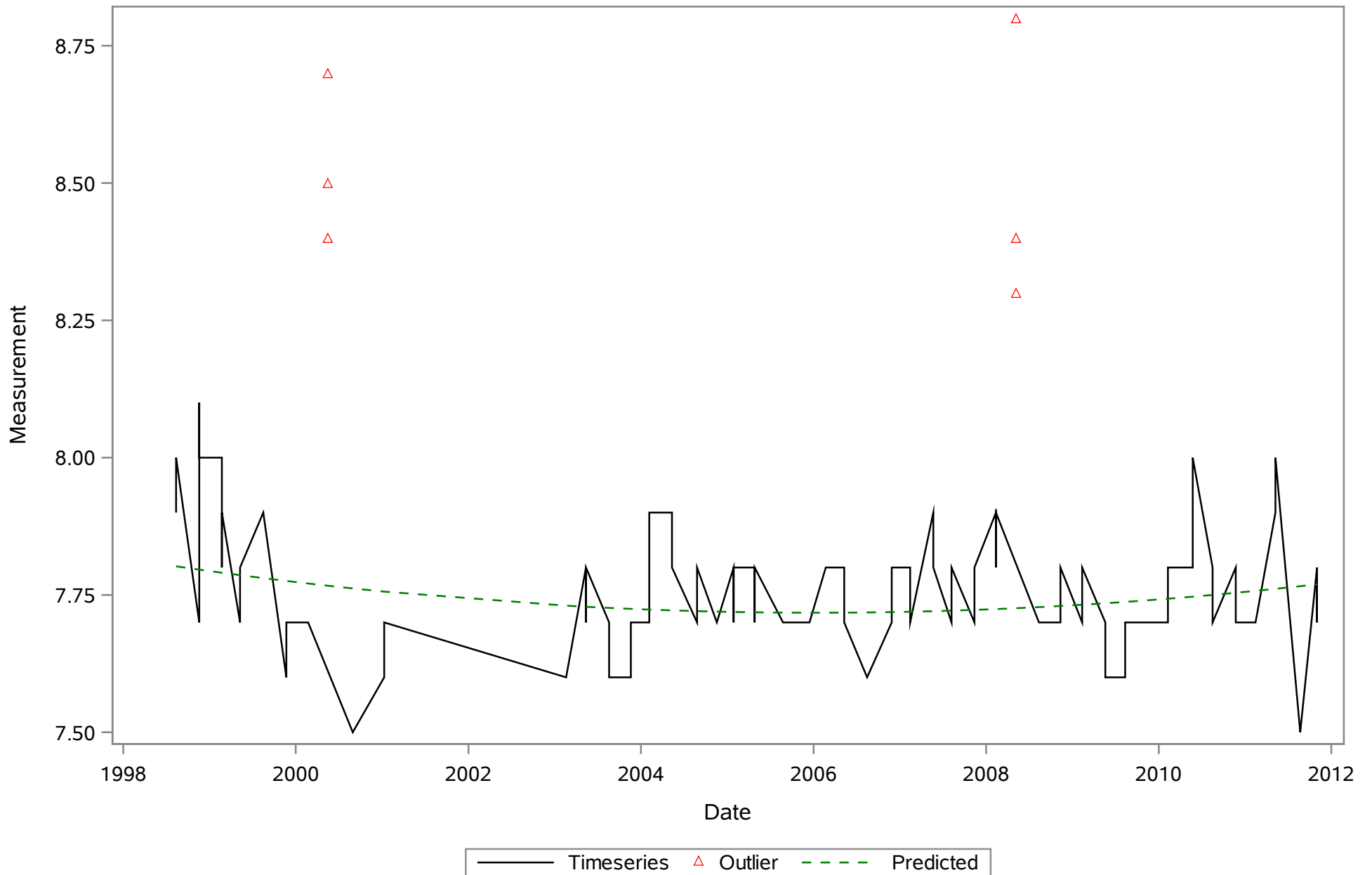
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Field

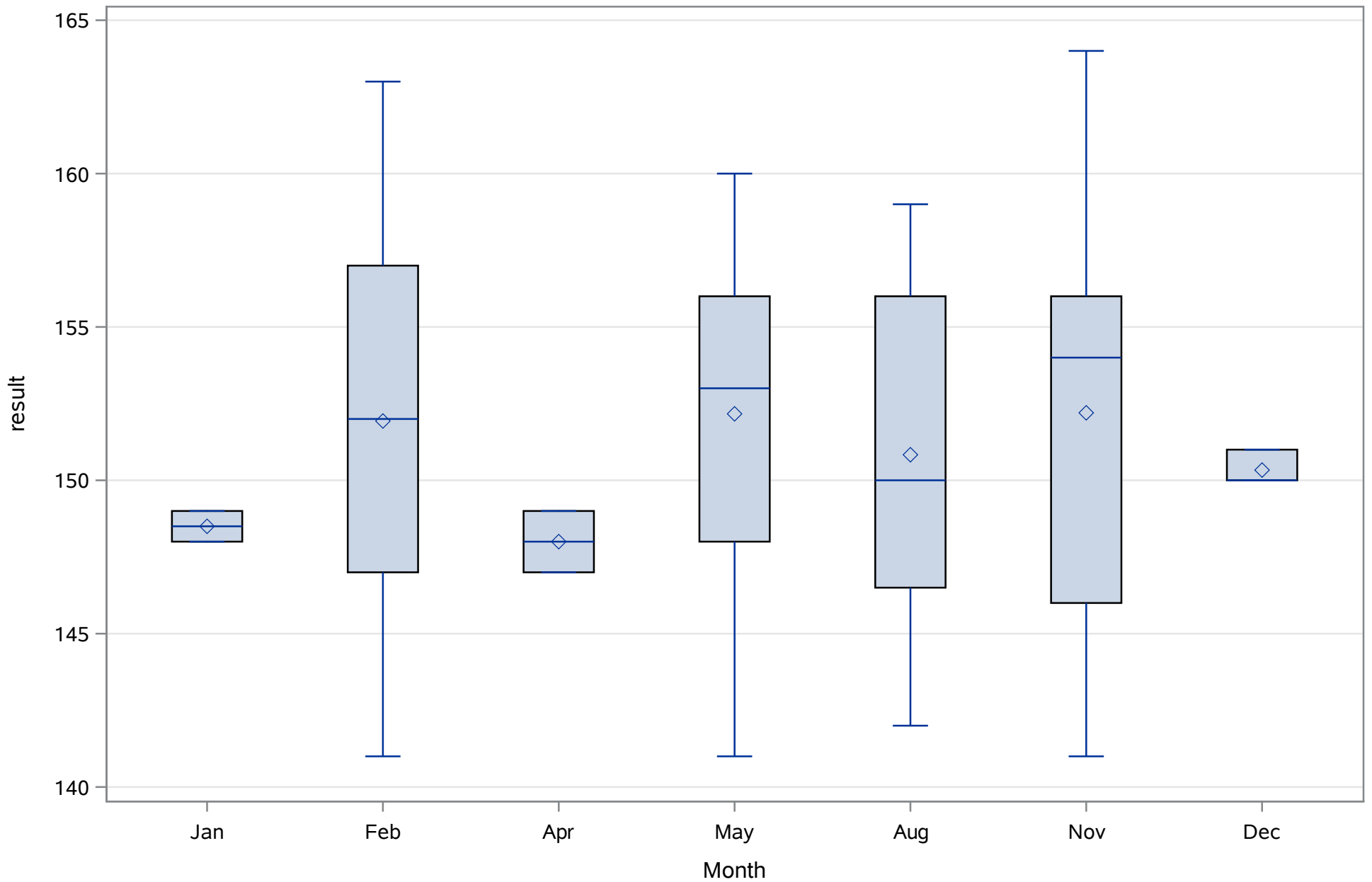


Chassahowitzka River - Fixed Station

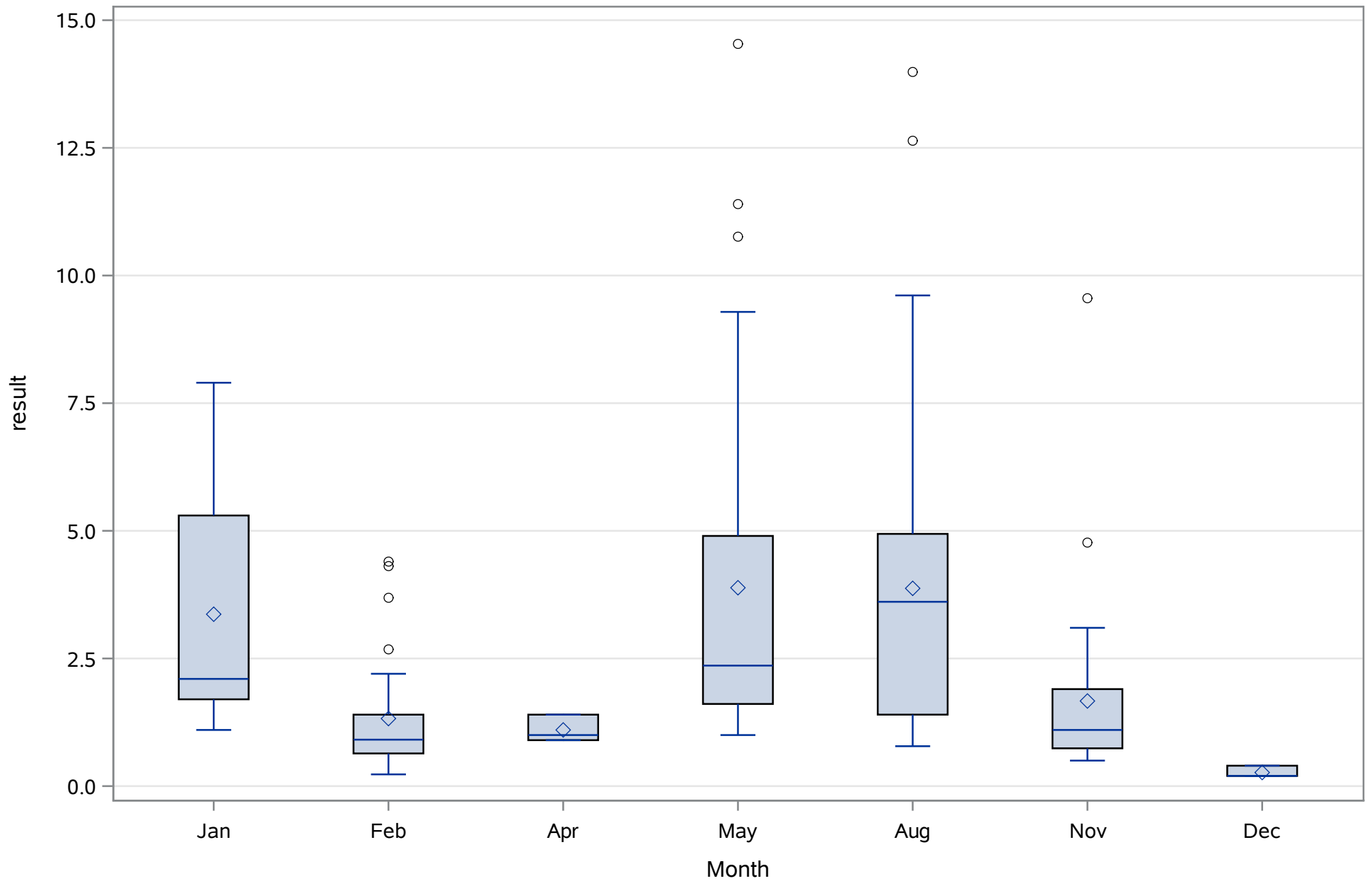
Source: UF 5 Rivers Study
Transect 1
pH_Lab



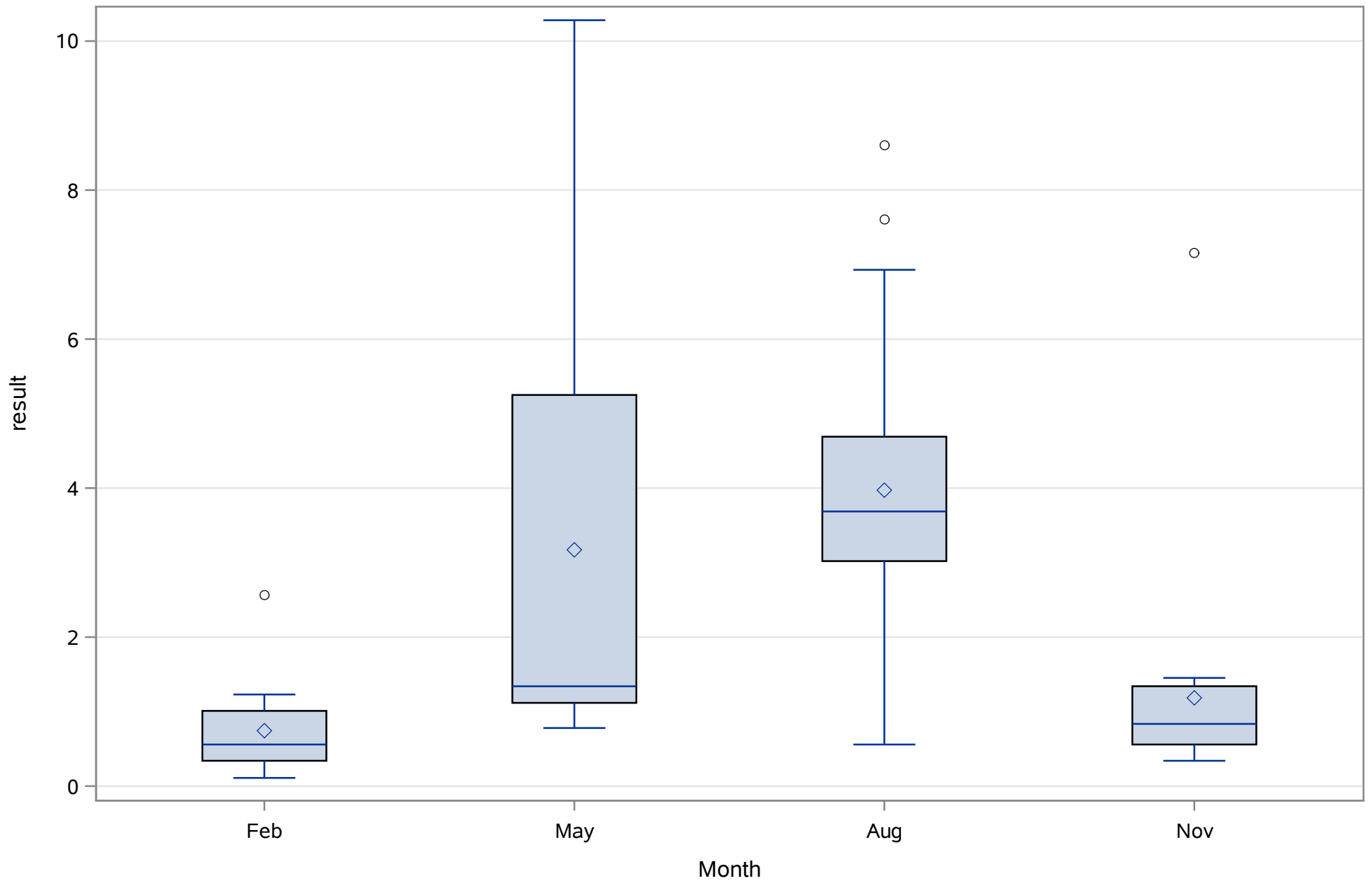
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
ALK_tot_mgL



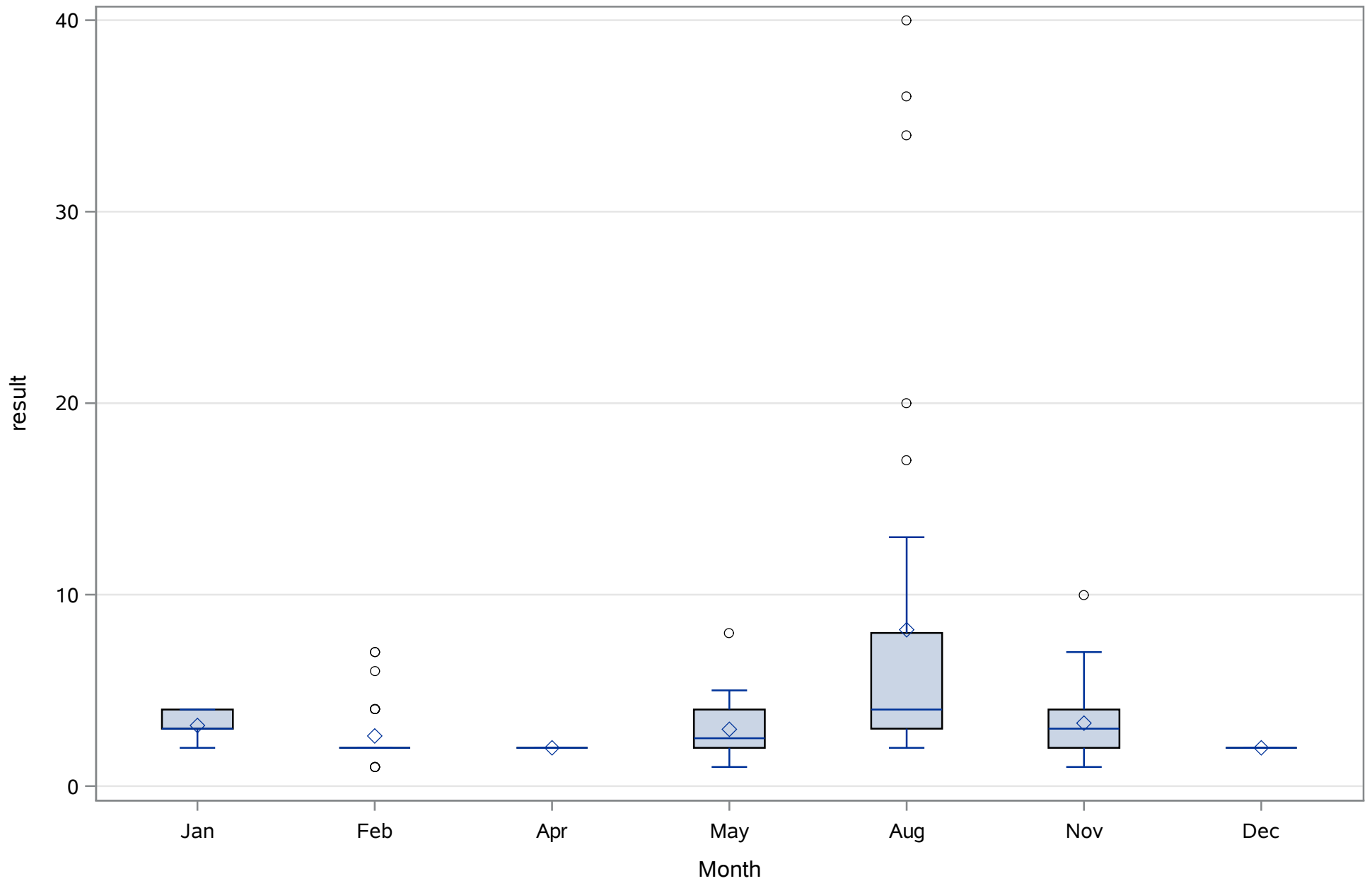
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_Uncor_ugL



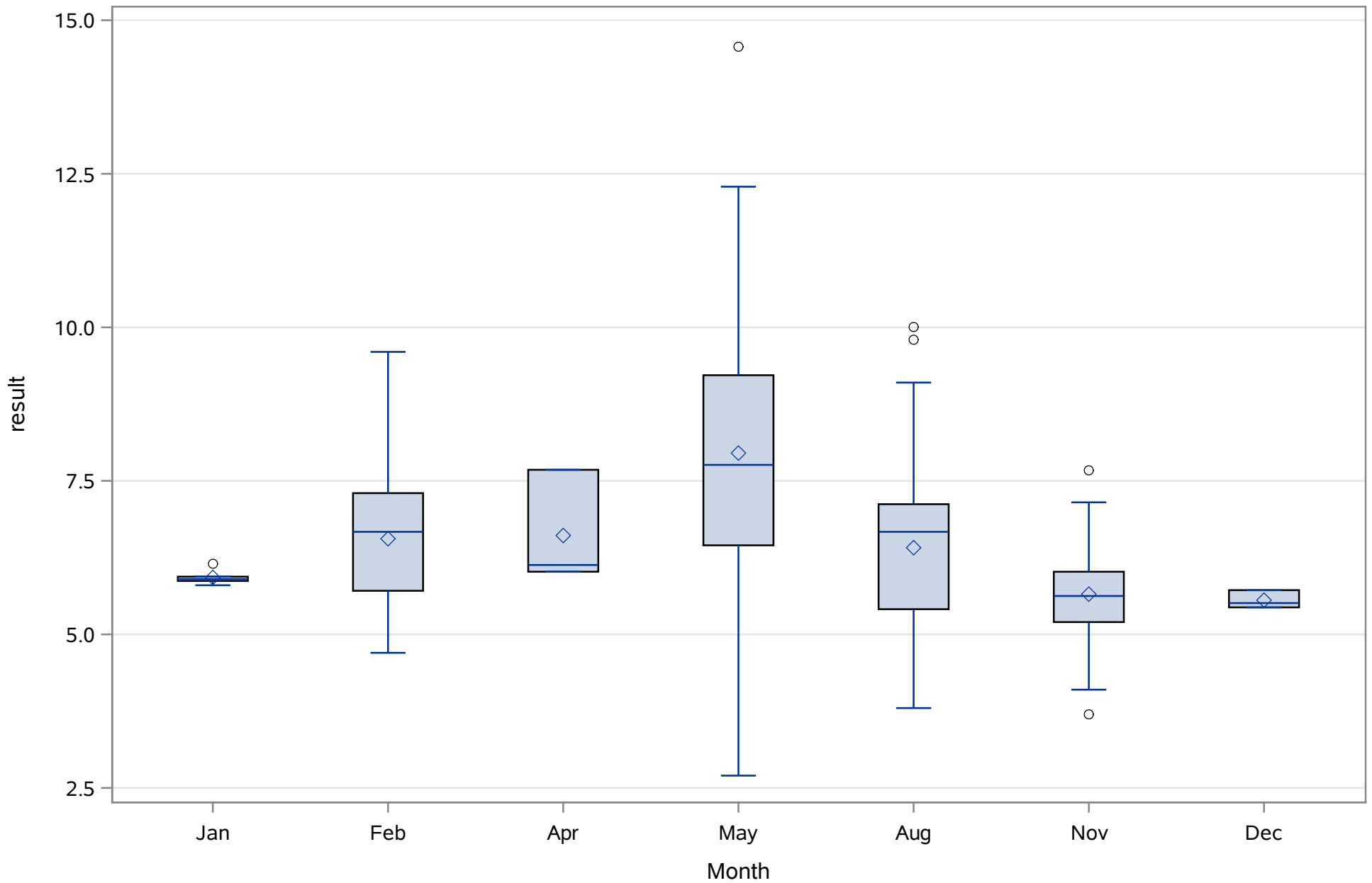
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
CHLA_cor_ugl



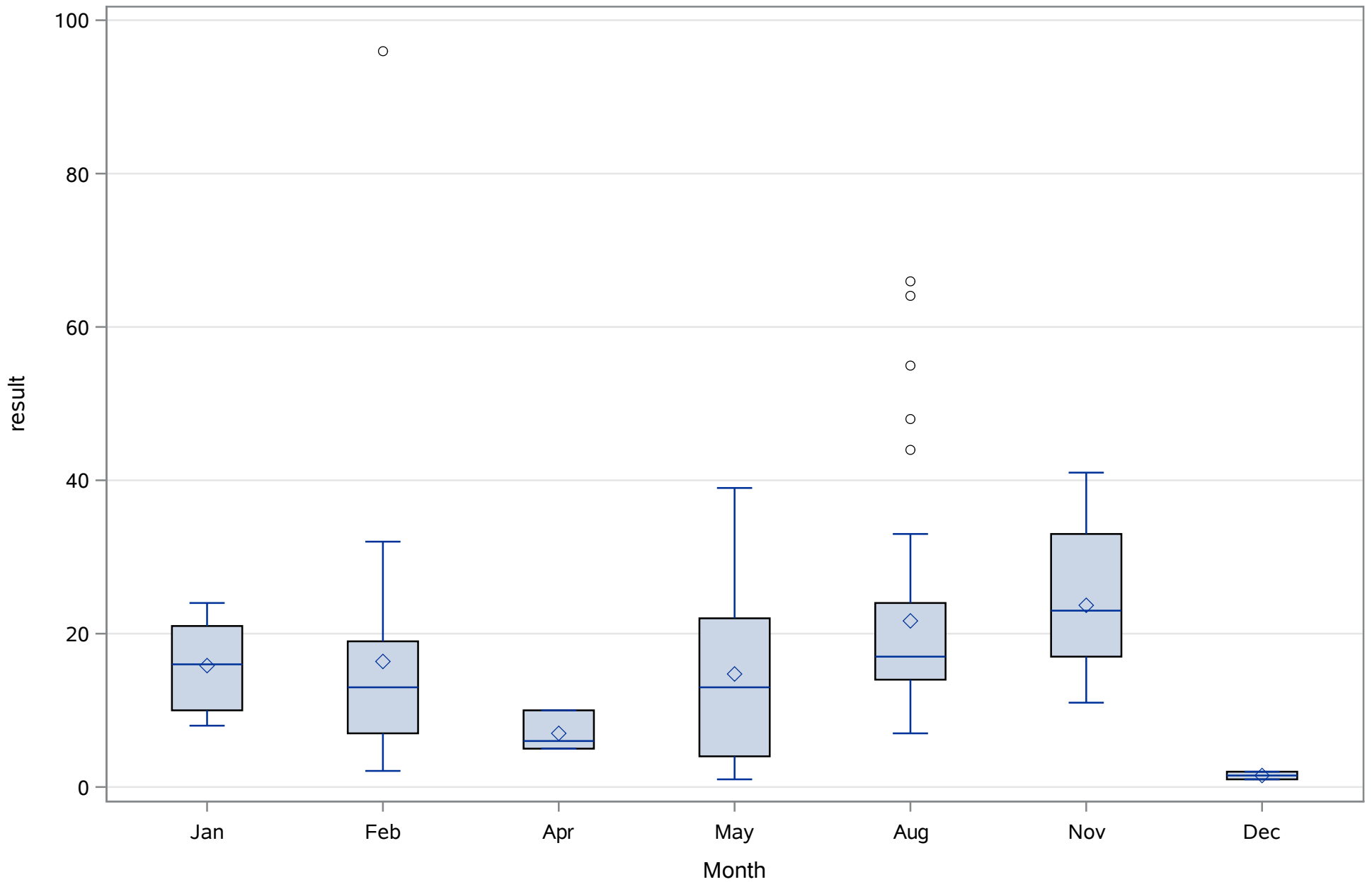
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
COLOR_PtCo



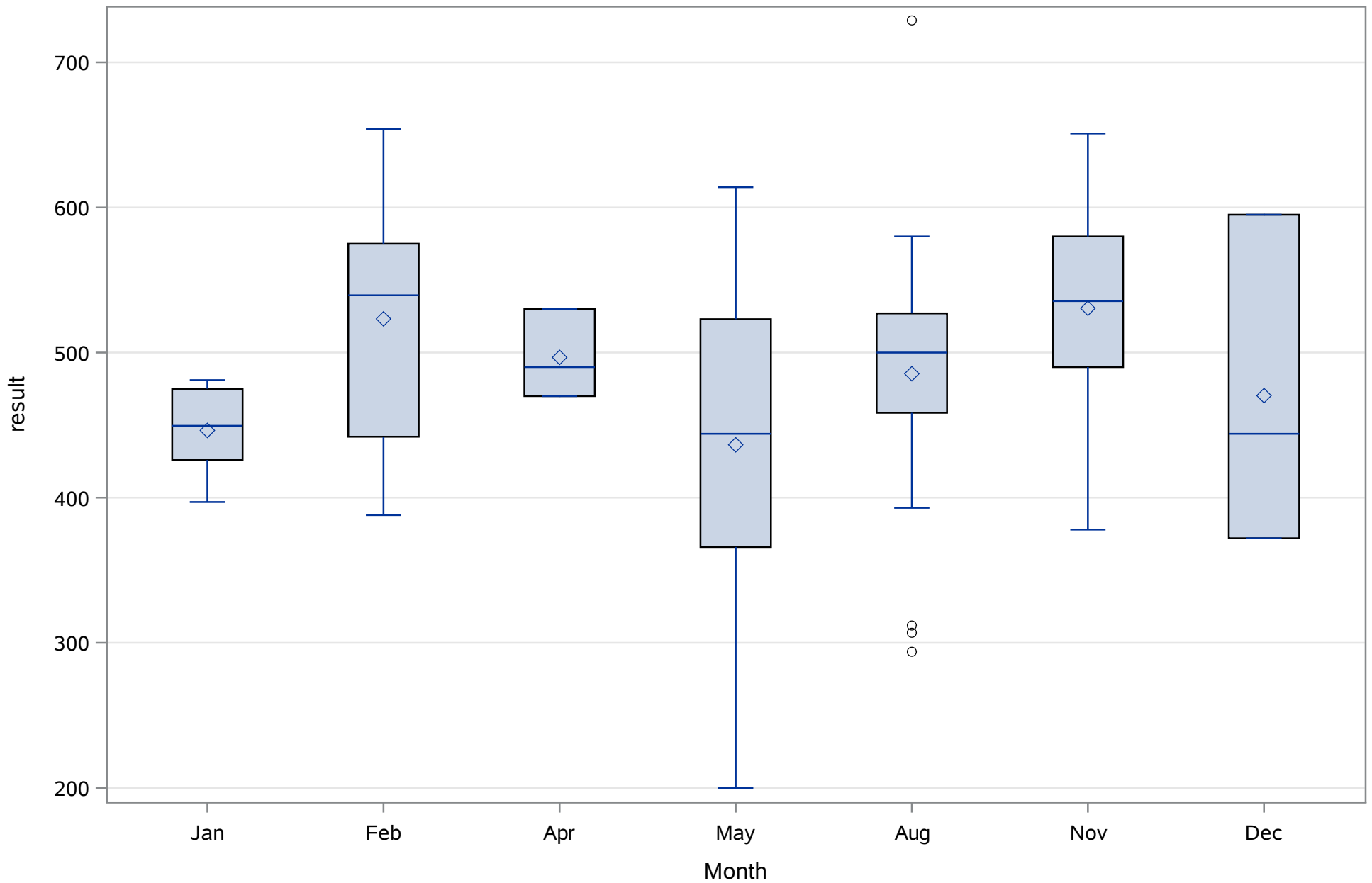
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
DO_mgL



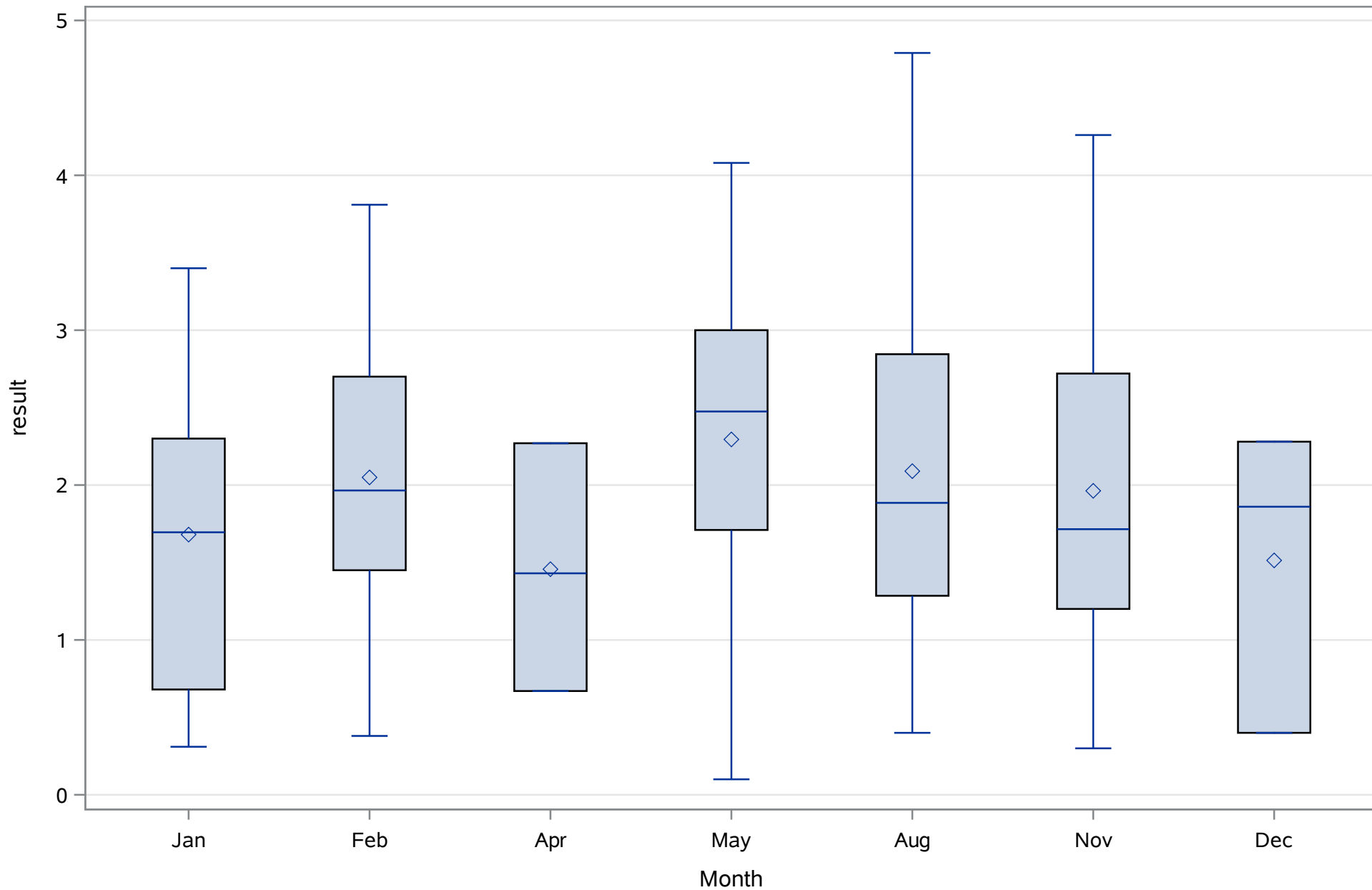
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NH4_ugl



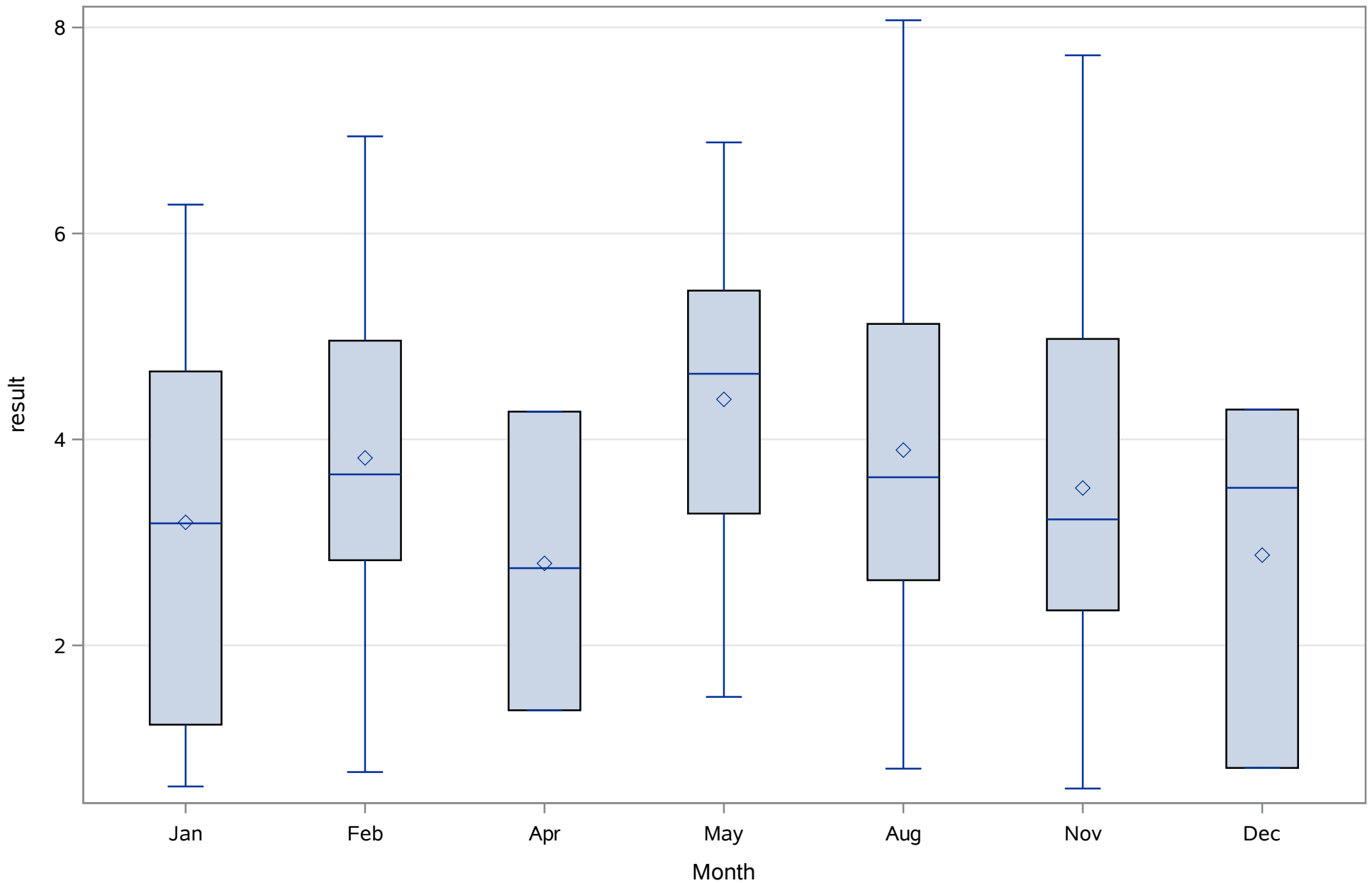
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
NO3_ugL



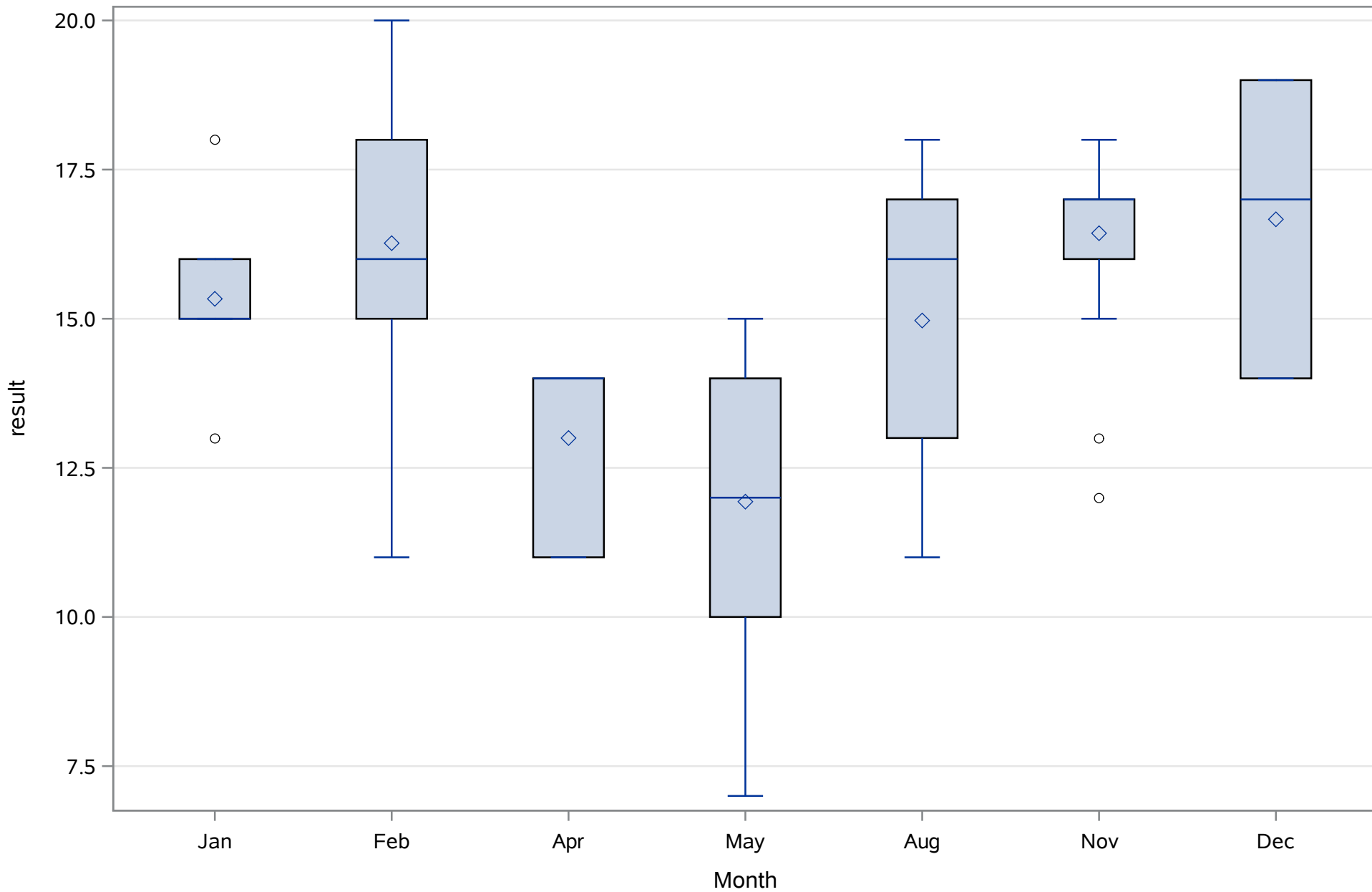
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SAL_Perc



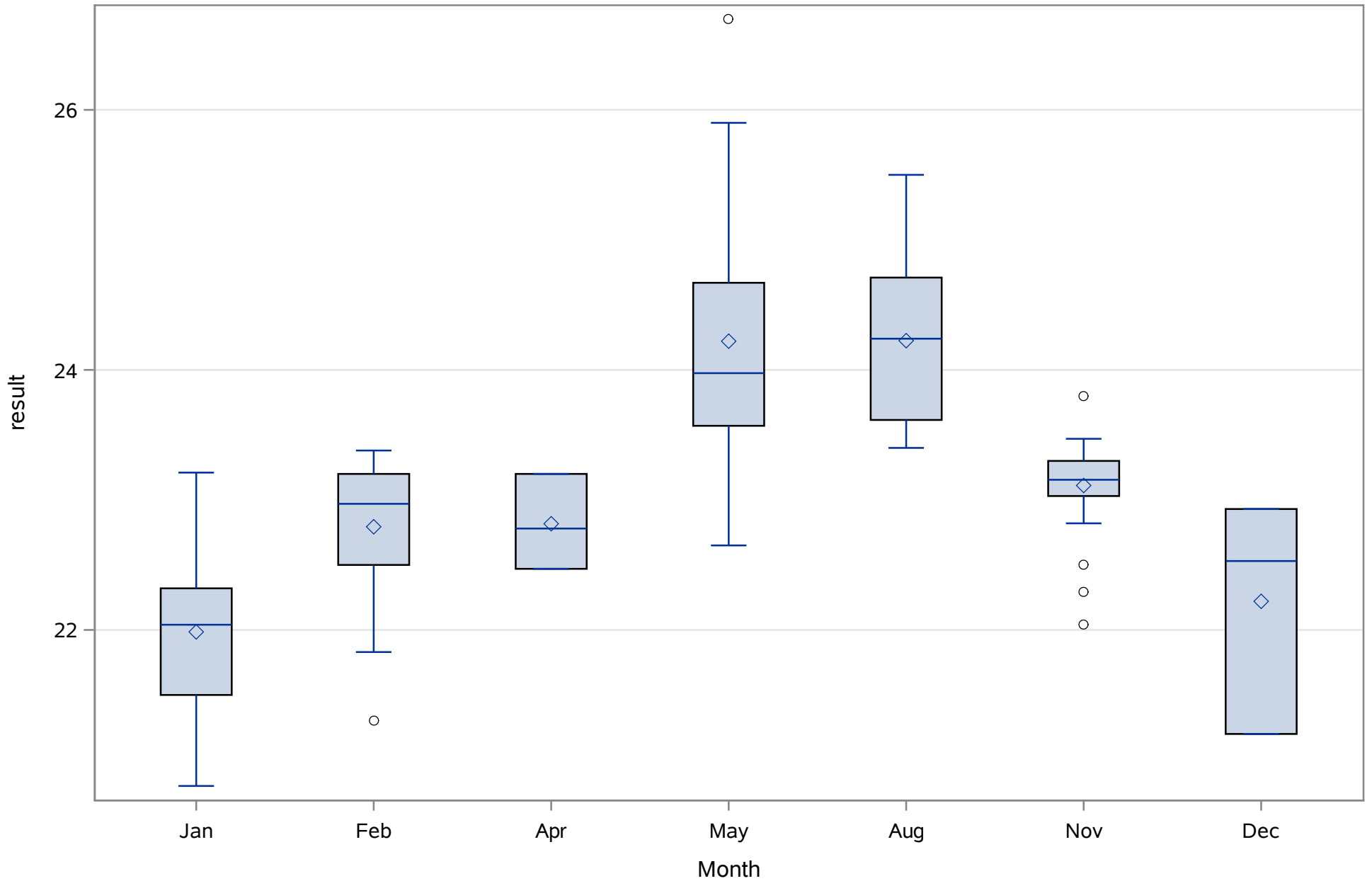
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SPCOND_mS_cm



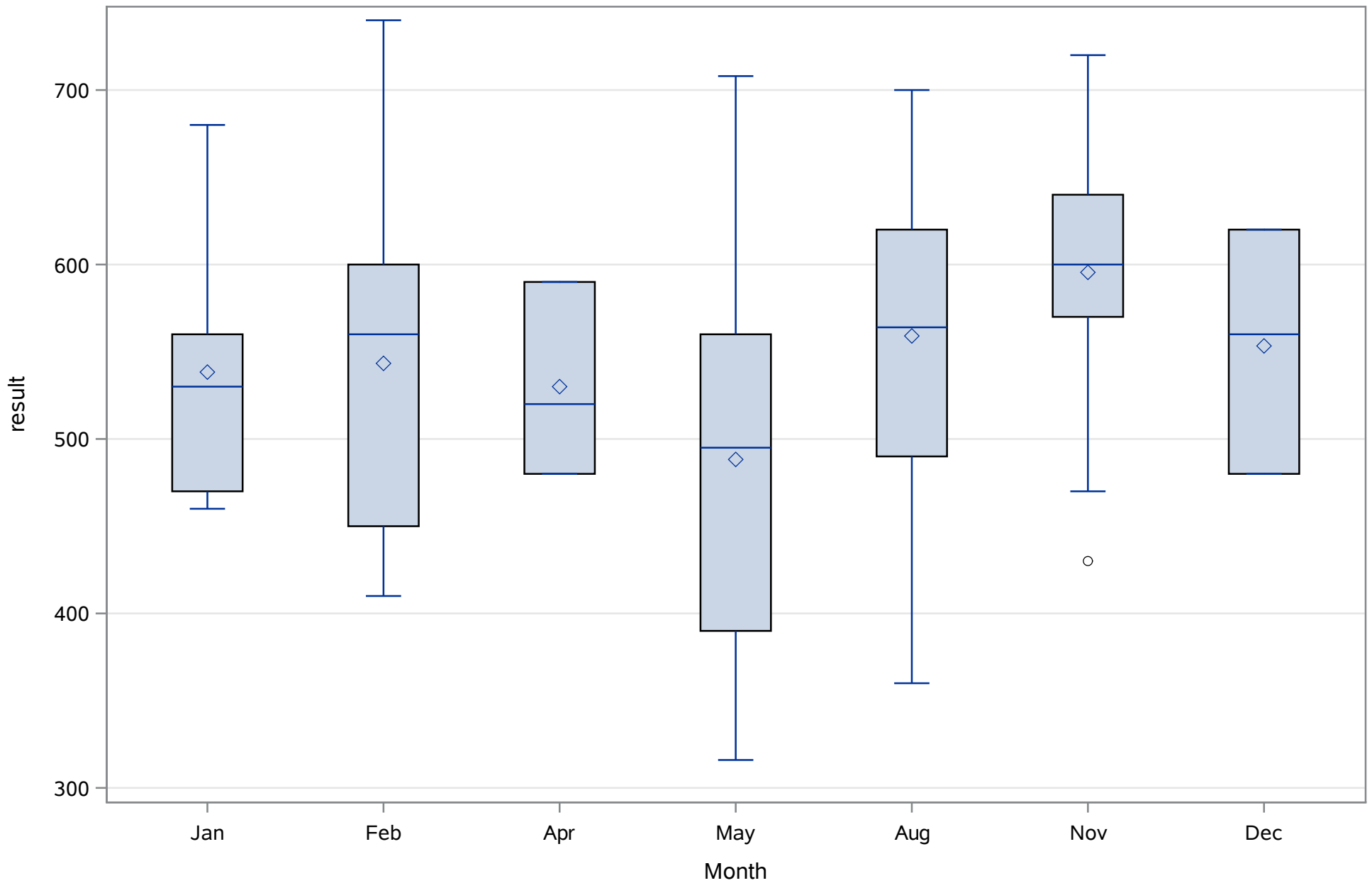
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
SRP_ugL



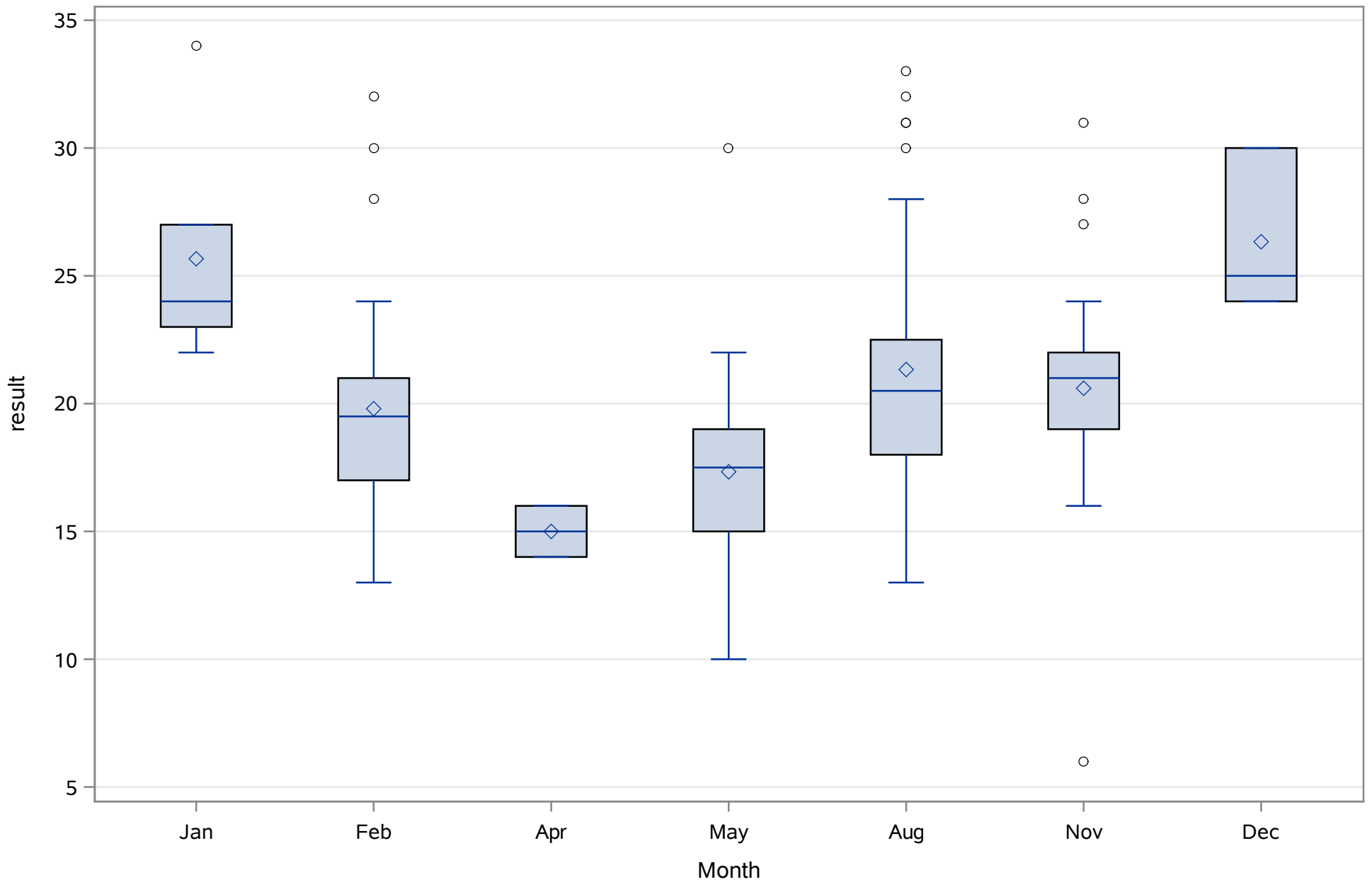
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TEMP_C



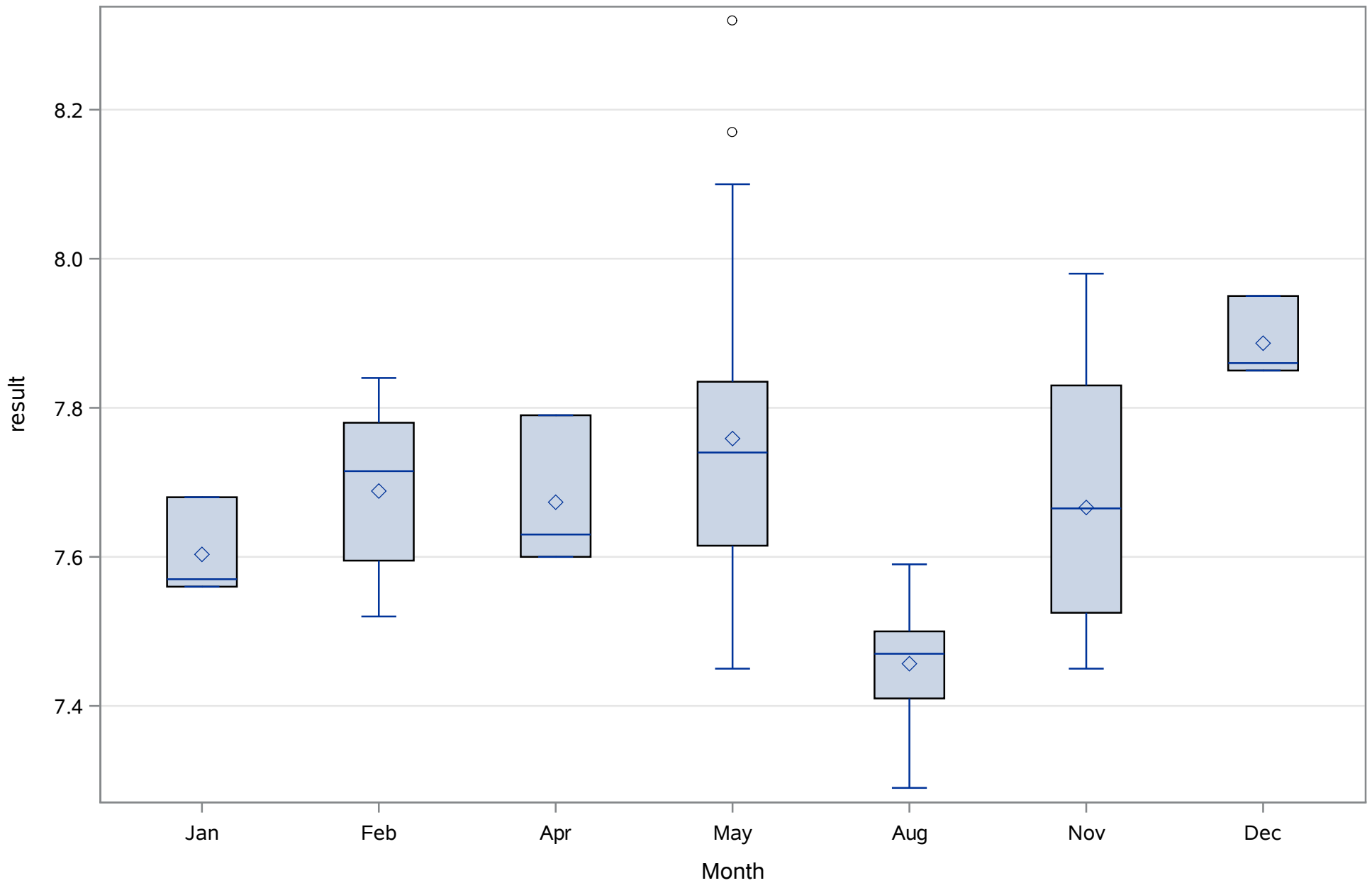
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TN_ugl



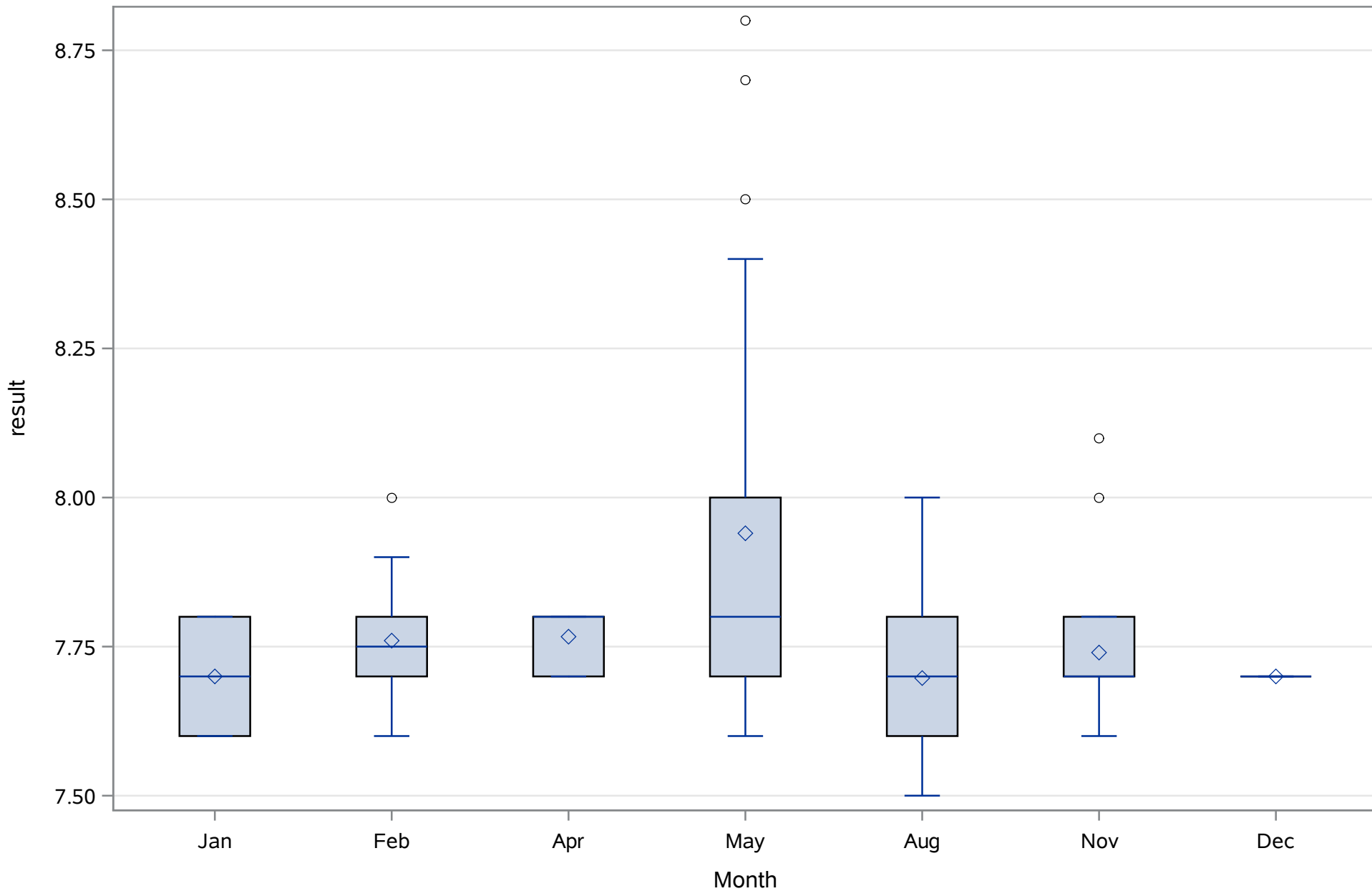
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 1
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	151.615942	Sum Observations	20923
Std Deviation	6.05368014	Variance	36.6470433
Skewness	0.24670316	Kurtosis	-0.96262
Uncorrected SS	3177281	Corrected SS	5020.64493
Coeff Variation	3.99277283	Std Error Mean	0.51532348

Basic Statistical Measures			
Location		Variability	
Mean	151.6159	Std Deviation	6.05368
Median	150.0000	Variance	36.64704
Mode	148.0000	Range	23.00000
		Interquartile Range	9.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	294.2151	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	164
99%	164
95%	162
90%	160
75% Q3	156
50% Median	150
25% Q1	147
10%	144
5%	142
1%	142
0% Min	141

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
ALK_tot_mgL

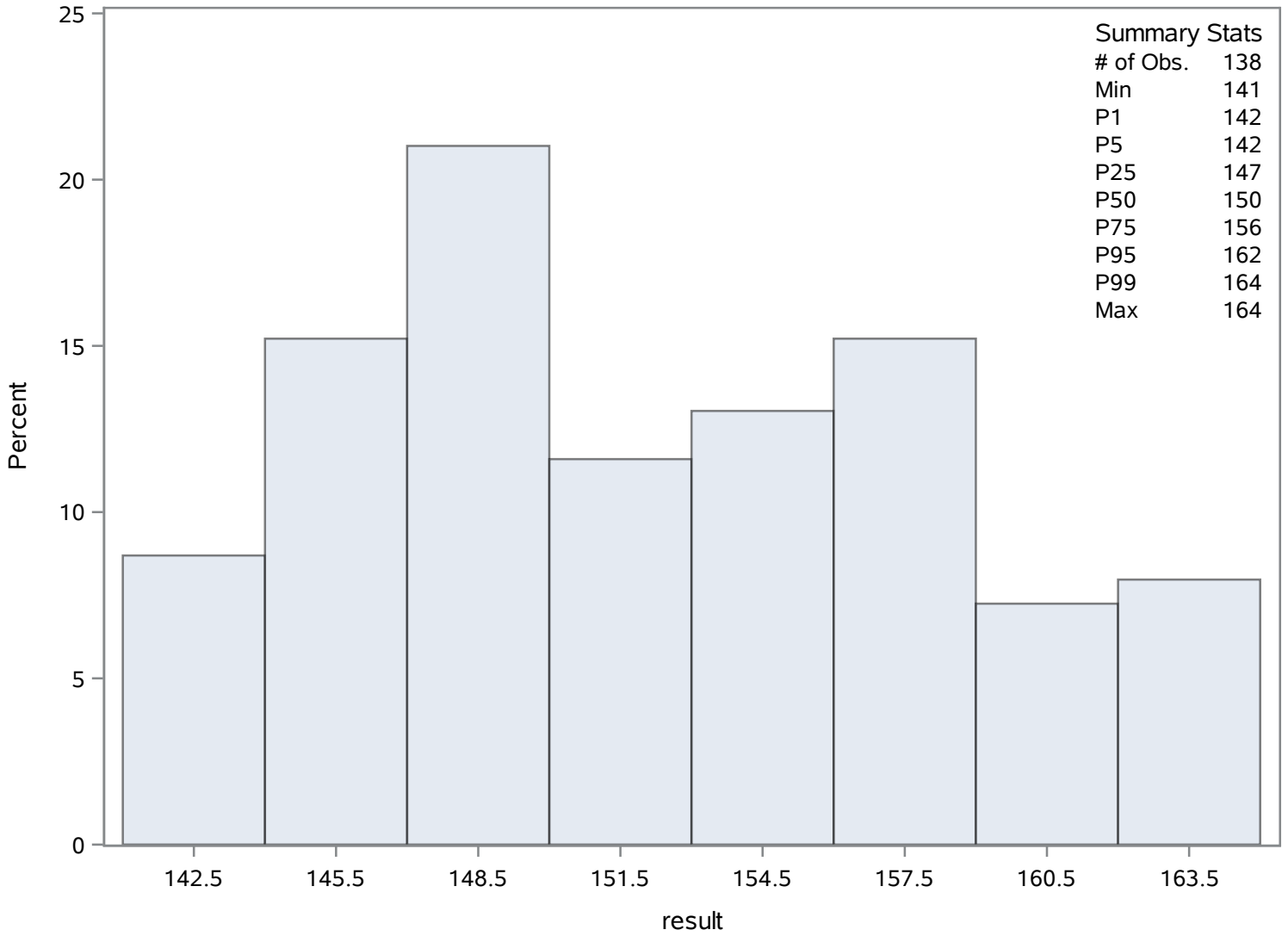
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
141	6	163	128
142	43	163	129
142	9	164	112
142	8	164	113
142	7	164	114

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	3.08565662	Sum Observations	425.820613
Std Deviation	2.57627273	Variance	6.63718117
Skewness	1.76244321	Kurtosis	3.11008172
Uncorrected SS	2223.23001	Corrected SS	909.29382
Coeff Variation	83.4918803	Std Error Mean	0.2193069

Basic Statistical Measures			
Location		Variability	
Mean	3.085657	Std Deviation	2.57627
Median	2.203448	Variance	6.63718
Mode	1.200000	Range	12.90000
		Interquartile Range	2.75000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.07004	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.20000
99%	12.37000
95%	9.01149
90%	6.57000
75% Q3	4.05000
50% Median	2.20345
25% Q1	1.30000
10%	0.91954
5%	0.74000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

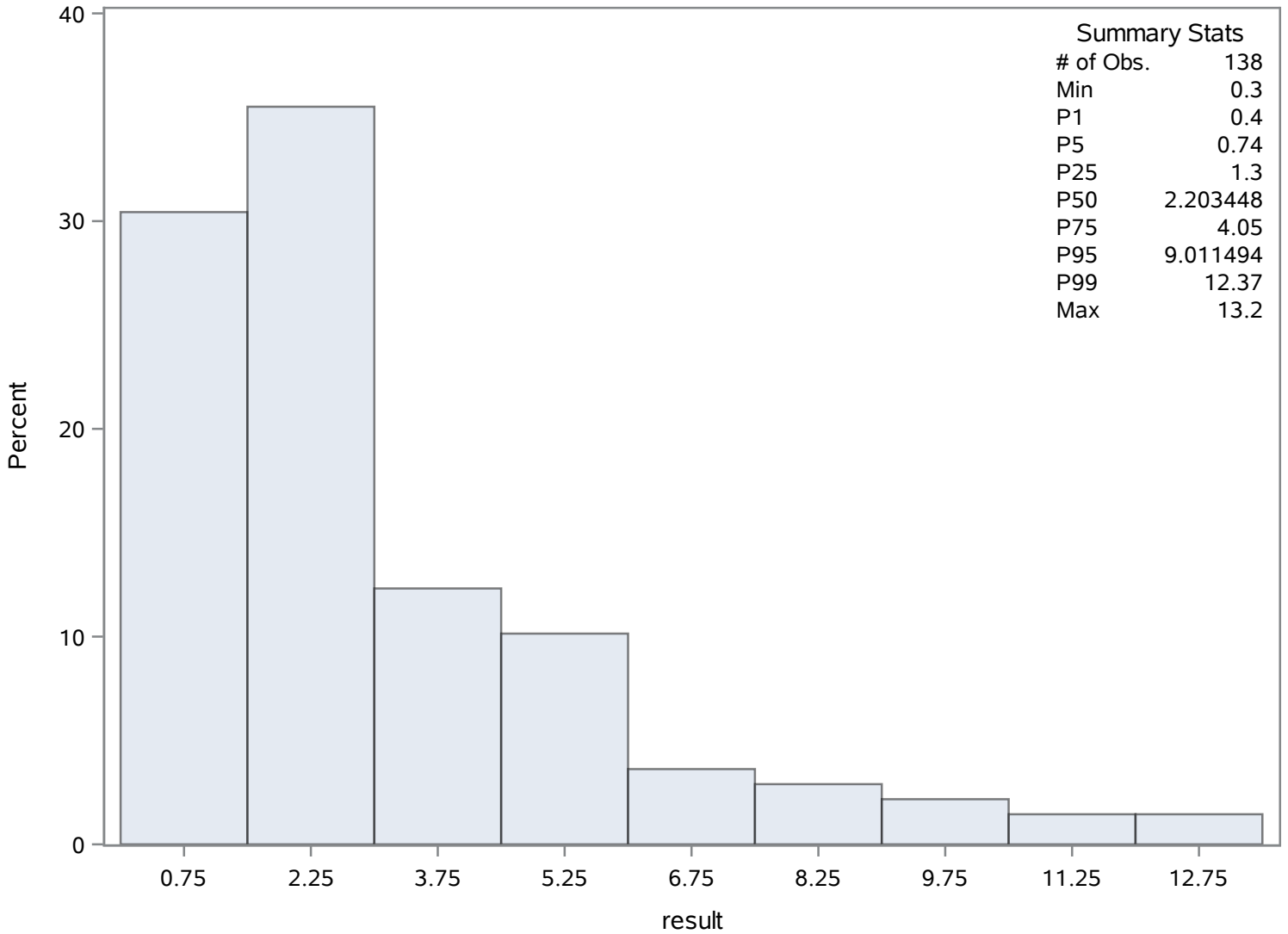
Quantiles (Definition 5)	
Level	Quantile
1%	0.40000
0% Min	0.30000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	203	9.61	248
0.40	204	10.50	195
0.40	202	11.54	249
0.55	254	12.37	224
0.60	274	13.20	164

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	2.06883042	Sum Observations	148.95579
Std Deviation	1.93511577	Variance	3.74467304
Skewness	1.43856606	Kurtosis	1.1439279
Uncorrected SS	574.036056	Corrected SS	265.871786
Coeff Variation	93.5367031	Std Error Mean	0.22805558

Basic Statistical Measures			
Location		Variability	
Mean	2.068830	Std Deviation	1.93512
Median	1.228964	Variance	3.74467
Mode	0.890000	Range	7.60000
		Interquartile Range	2.29121

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.071606	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.710000
99%	7.710000
95%	6.590000
90%	4.690000
75% Q3	3.073274
50% Median	1.228964
25% Q1	0.782068
10%	0.450000
5%	0.446896
1%	0.110000
0% Min	0.110000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_cor_ugl

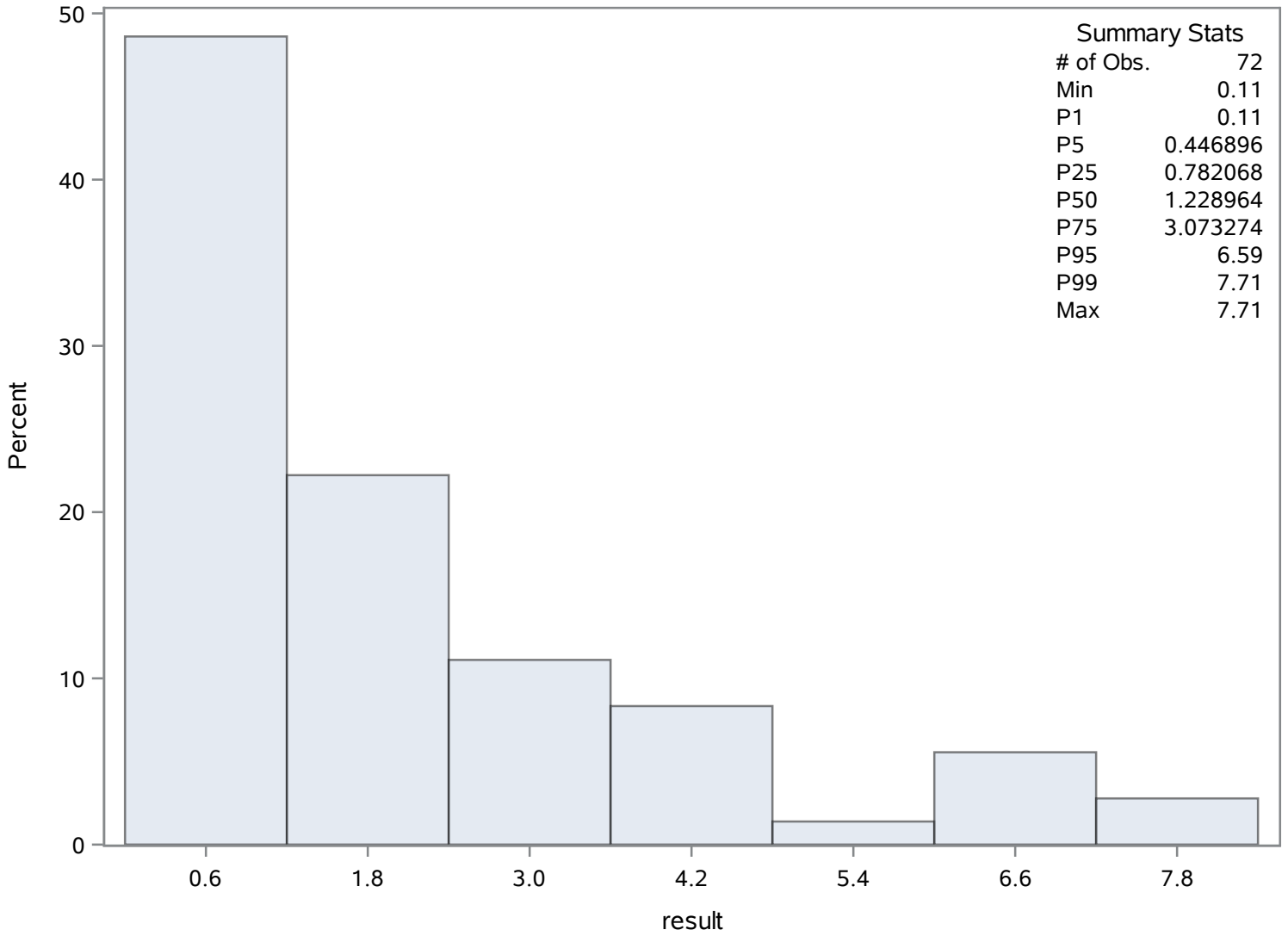
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.110000	346	6.37000	332
0.340000	337	6.59000	320
0.340000	327	7.15034	309
0.446896	301	7.26000	321
0.446896	283	7.71000	296

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	5.05072464	Sum Observations	697
Std Deviation	9.5576029	Variance	91.3477732
Skewness	6.71073869	Kurtosis	50.8251444
Uncorrected SS	16035	Corrected SS	12514.6449
Coeff Variation	189.23231	Std Error Mean	0.81359719

Basic Statistical Measures			
Location		Variability	
Mean	5.050725	Std Deviation	9.55760
Median	3.000000	Variance	91.34777
Mode	2.000000	Range	87.00000
		Interquartile Range	3.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.207893	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	88
99%	62
95%	12
90%	8
75% Q3	5
50% Median	3
25% Q1	2
10%	1
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
COLOR_PtCo

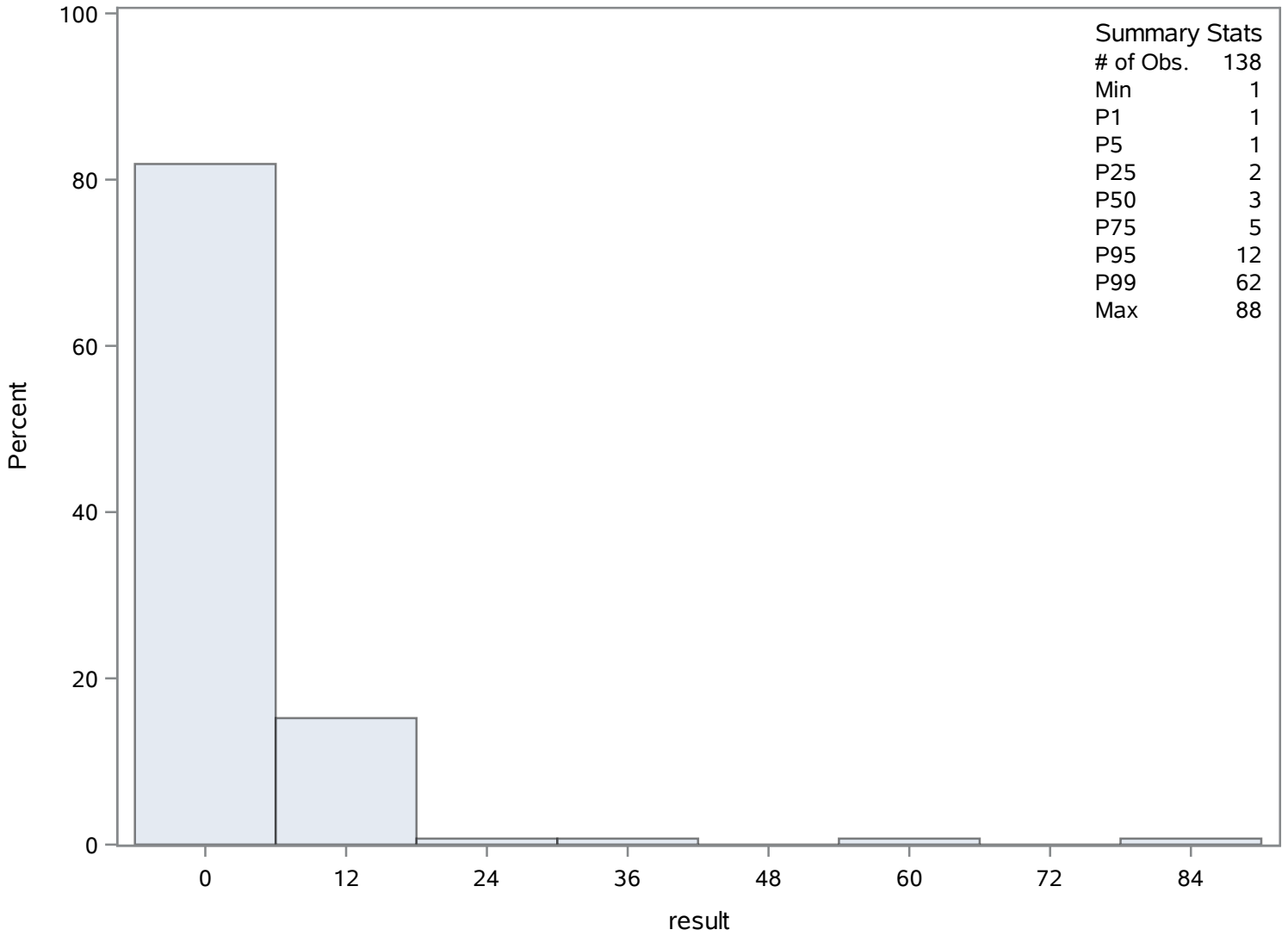
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	480	14	387
1	479	19	433
1	478	37	483
1	461	62	482
1	453	88	481

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.4434058	Sum Observations	1027.19
Std Deviation	1.98040492	Variance	3.92200364
Skewness	0.41458298	Kurtosis	0.45692536
Uncorrected SS	8183.1065	Corrected SS	537.314499
Coeff Variation	26.6061662	Std Error Mean	0.16858326

Basic Statistical Measures			
Location		Variability	
Mean	7.443406	Std Deviation	1.98040
Median	7.300000	Variance	3.92200
Mode	3.600000	Range	9.70000
		Interquartile Range	2.26000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	44.1527	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.20
99%	12.82
95%	11.10
90%	10.00
75% Q3	8.51
50% Median	7.30
25% Q1	6.25
10%	4.99
5%	3.91

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
DO_mgL

The UNIVARIATE Procedure
Variable: result

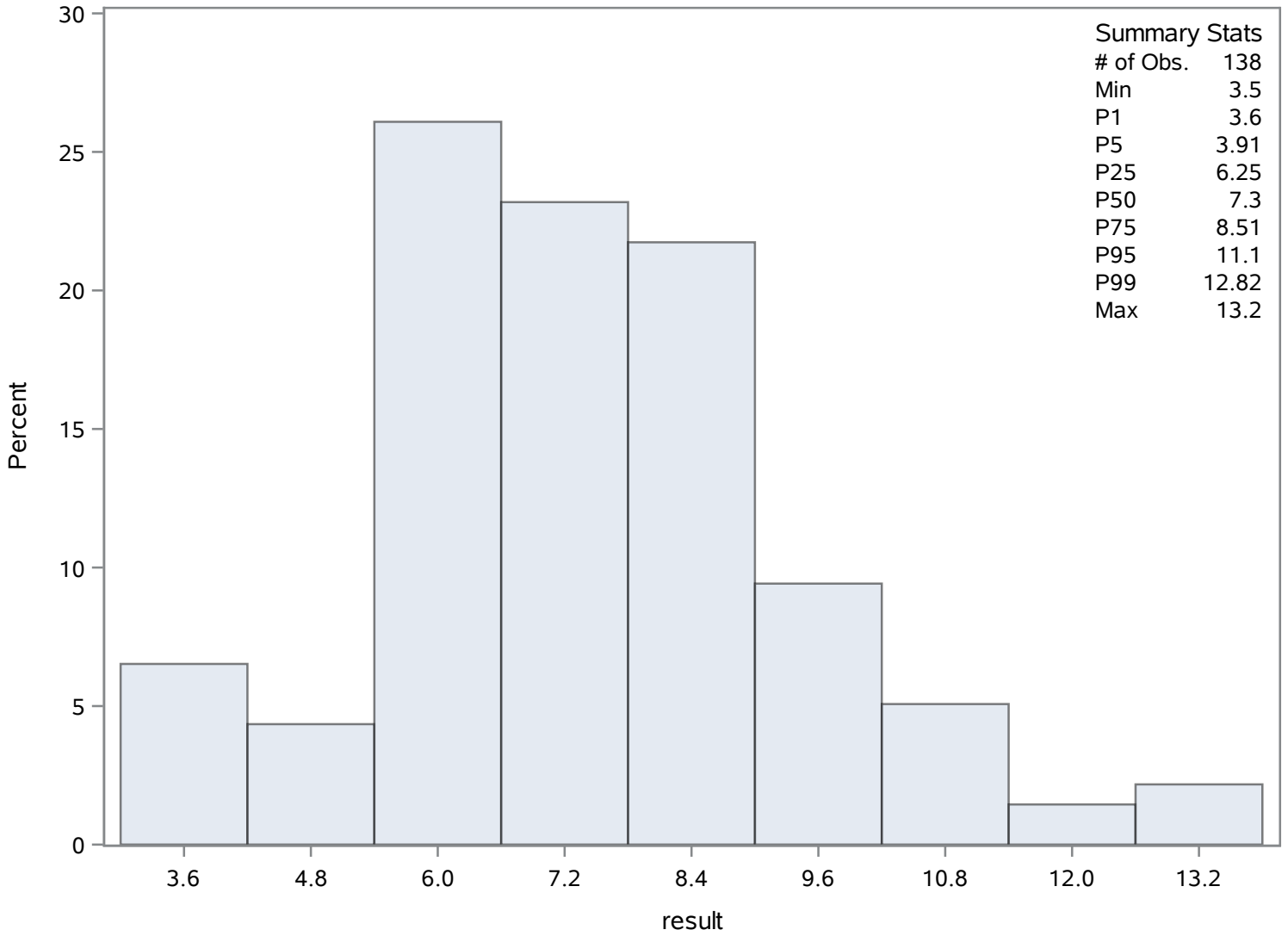
Quantiles (Definition 5)	
Level	Quantile
1%	3.60
0% Min	3.50

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.5	496	11.83	582
3.6	513	12.26	581
3.6	498	12.75	580
3.6	497	12.82	589
3.7	512	13.20	577

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	18.4869565	Sum Observations	2551.2
Std Deviation	11.8960143	Variance	141.515157
Skewness	1.77283558	Kurtosis	6.17528474
Uncorrected SS	66551.5	Corrected SS	19387.5765
Coeff Variation	64.348149	Std Error Mean	1.01265599

Basic Statistical Measures			
Location		Variability	
Mean	18.48696	Std Deviation	11.89601
Median	17.00000	Variance	141.51516
Mode	13.00000	Range	81.00000
		Interquartile Range	12.00000

Note: The mode displayed is the smallest of 2 modes with a count of 9.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.25591	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	82
99%	56
95%	38
90%	31
75% Q3	23
50% Median	17
25% Q1	11
10%	6
5%	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NH4_ugl

The UNIVARIATE Procedure
Variable: result

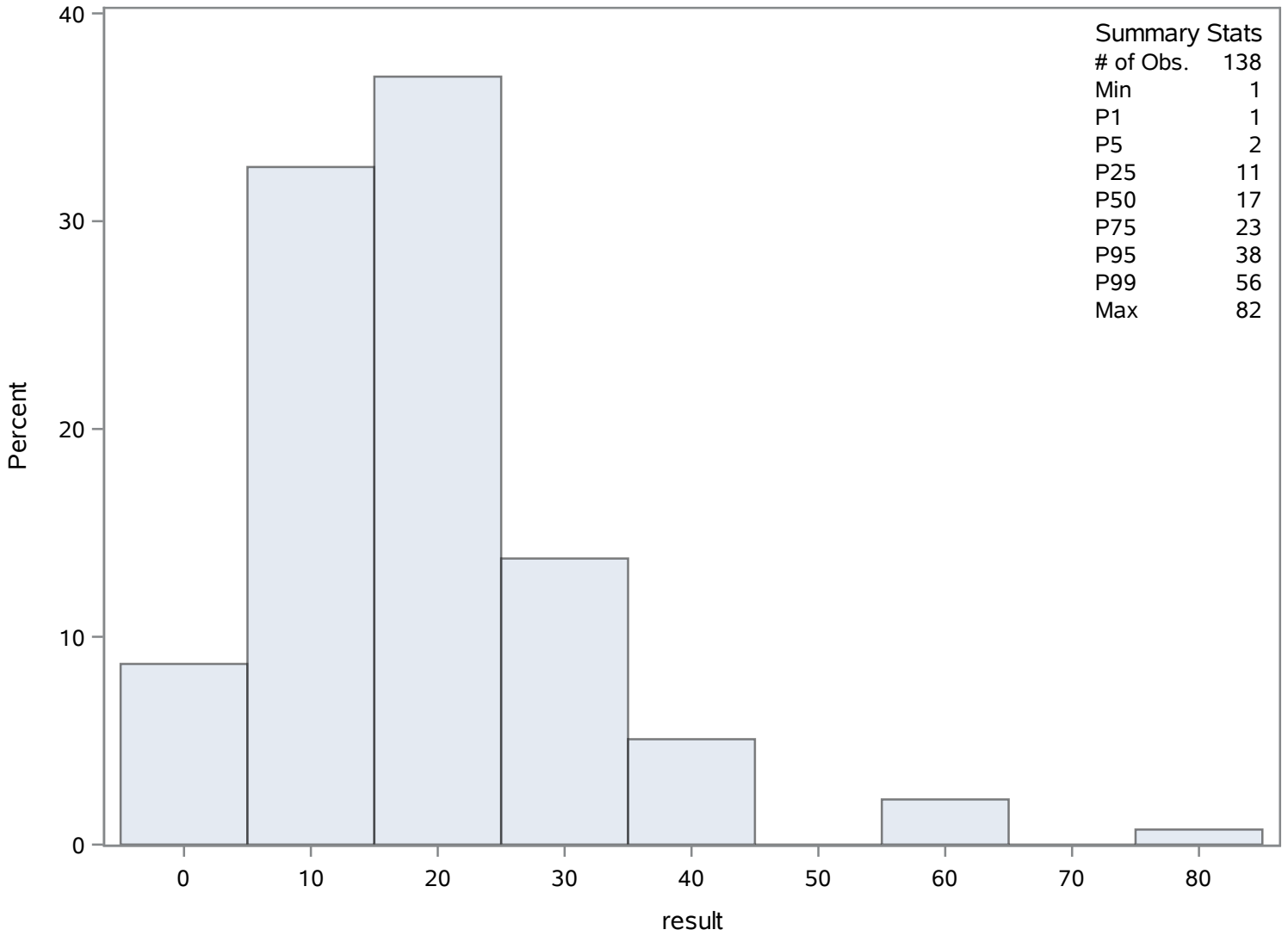
Quantiles (Definition 5)	
Level	Quantile
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	687	43	705
1	681	55	660
1	668	55	661
2	708	56	659
2	688	82	645

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	466.681884	Sum Observations	64402.1
Std Deviation	98.2568942	Variance	9654.41726
Skewness	-0.9150788	Kurtosis	1.40573295
Uncorrected SS	31377948.5	Corrected SS	1322655.16
Coeff Variation	21.0543622	Std Error Mean	8.36418229

Basic Statistical Measures			
Location		Variability	
Mean	466.6819	Std Deviation	98.25689
Median	479.5000	Variance	9654
Mode	480.0000	Range	546.00000
		Interquartile Range	123.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	55.79528	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	654.0
99%	635.0
95%	601.0
90%	584.0
75% Q3	530.0
50% Median	479.5
25% Q1	407.0
10%	332.0
5%	293.0
1%	130.0
0% Min	108.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NO3_ugL

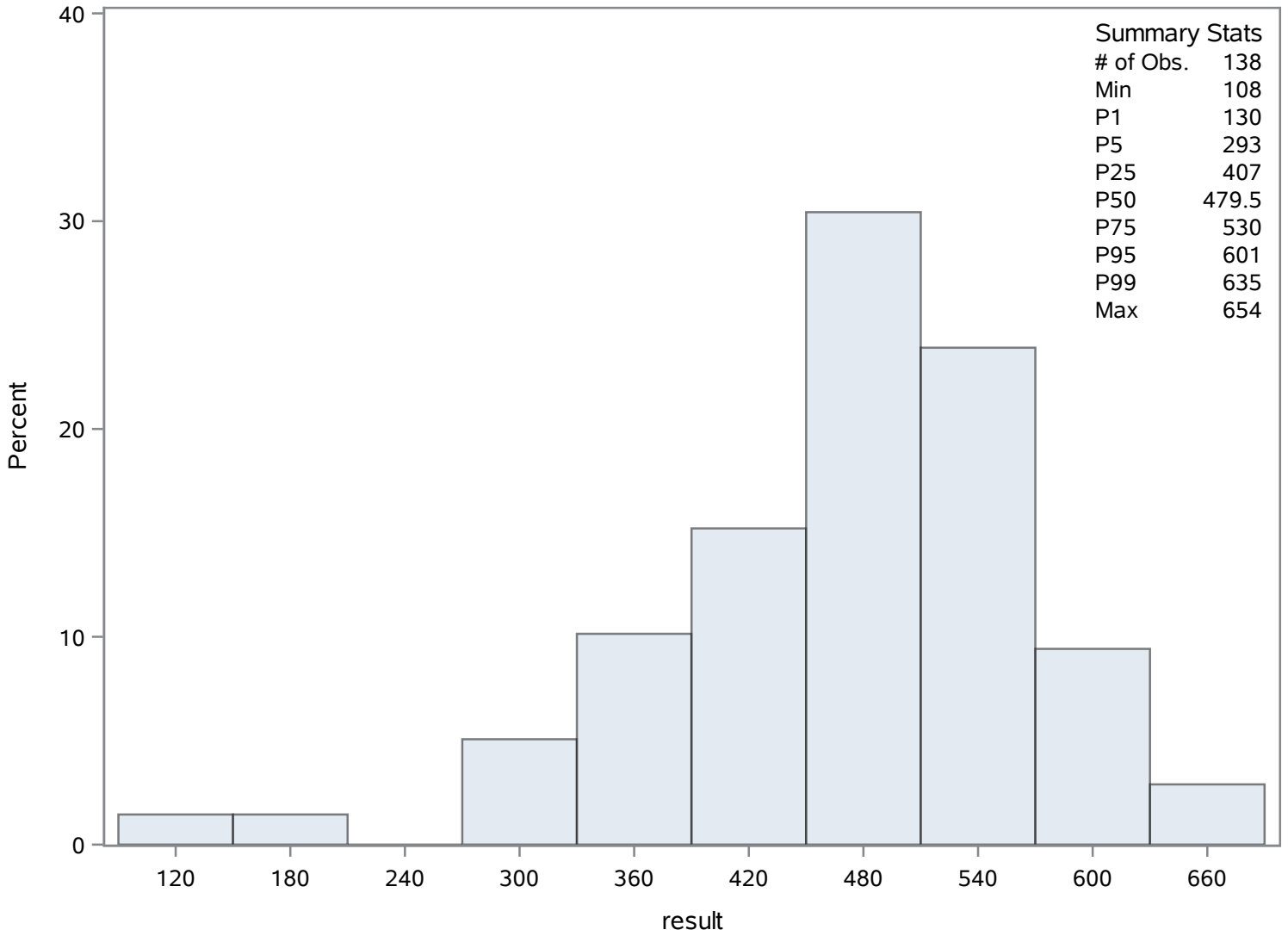
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
108	786	621	872
130	820	633	871
207	784	634	867
208	785	635	863
271	774	654	866

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	1.84811594	Sum Observations	255.04
Std Deviation	0.7281128	Variance	0.53014825
Skewness	0.39780917	Kurtosis	1.11676941
Uncorrected SS	543.9738	Corrected SS	72.6303101
Coeff Variation	39.3975715	Std Error Mean	0.06198108

Basic Statistical Measures			
Location		Variability	
Mean	1.848116	Std Deviation	0.72811
Median	1.870000	Variance	0.53015
Mode	1.600000	Range	4.58000
		Interquartile Range	0.84000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.81742	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.59
99%	3.78
95%	3.07
90%	2.76
75% Q3	2.24
50% Median	1.87
25% Q1	1.40
10%	0.97
5%	0.57

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SAL_Perc

The UNIVARIATE Procedure
Variable: result

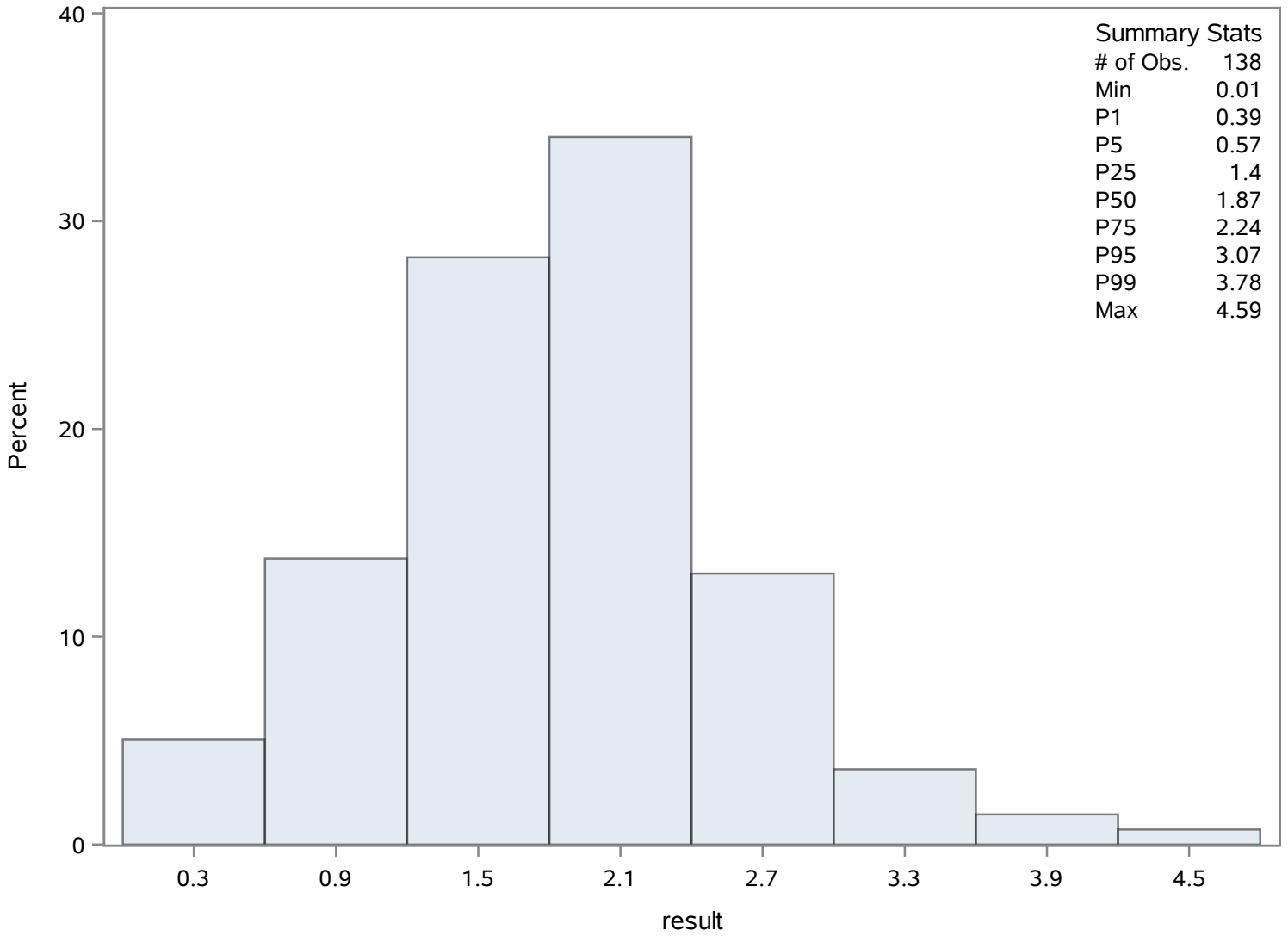
Quantiles (Definition 5)	
Level	Quantile
1%	0.39
0% Min	0.01

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	988	3.23	984
0.39	957	3.47	1009
0.40	966	3.62	982
0.41	954	3.78	1007
0.50	906	4.59	1006

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	3.4895	Sum Observations	481.551
Std Deviation	1.3017733	Variance	1.69461371
Skewness	0.28651693	Kurtosis	1.0299742
Uncorrected SS	1912.53429	Corrected SS	232.162078
Coeff Variation	37.305439	Std Error Mean	0.1108143

Basic Statistical Measures			
Location		Variability	
Mean	3.489500	Std Deviation	1.30177
Median	3.591500	Variance	1.69461
Mode	2.220000	Range	8.20300
		Interquartile Range	1.49200

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	31.48962	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.2290
99%	6.8800
95%	5.7170
90%	5.1510
75% Q3	4.2220
50% Median	3.5915
25% Q1	2.7300
10%	1.8800
5%	1.1600

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

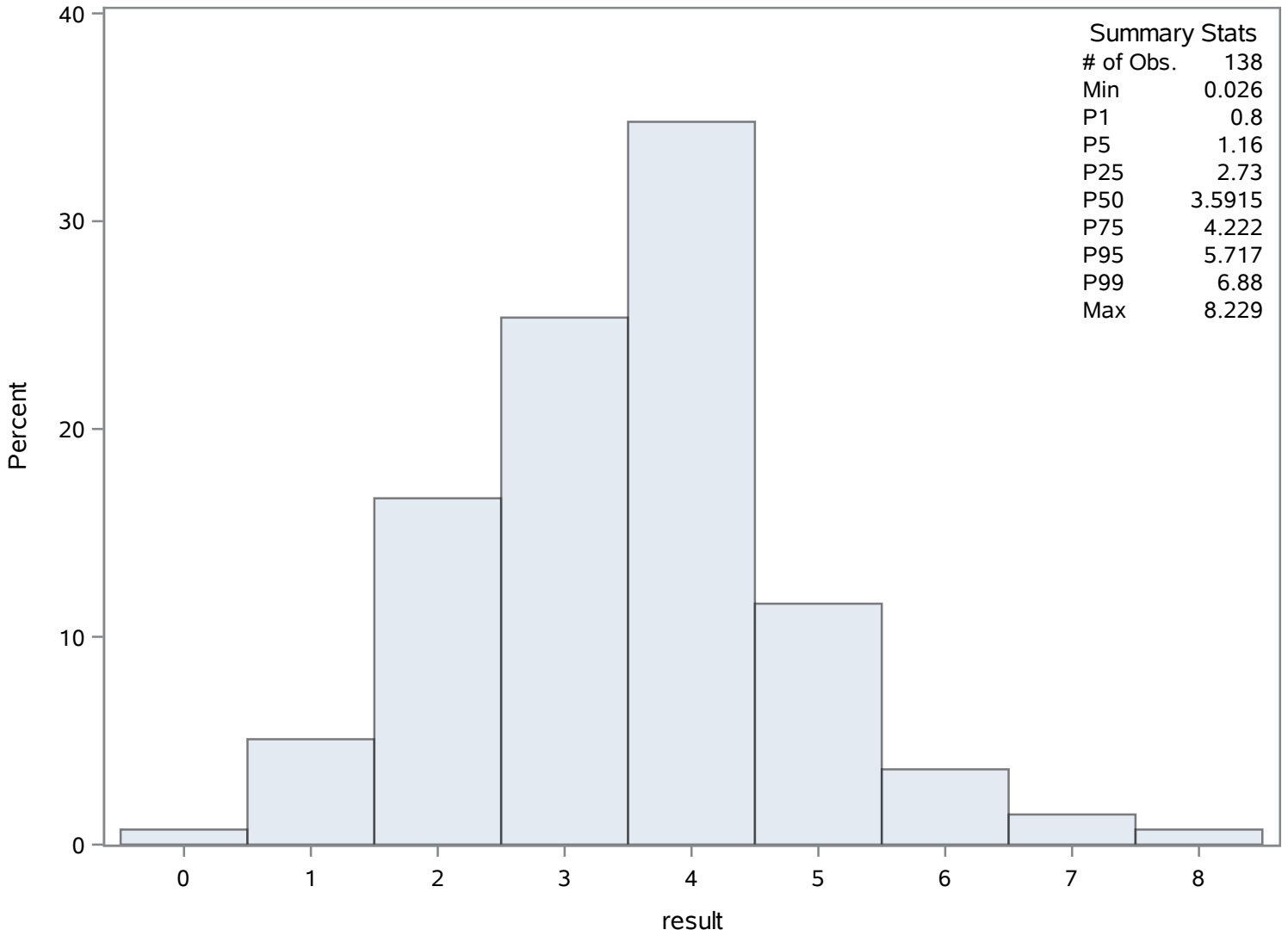
Quantiles (Definition 5)	
Level	Quantile
1%	0.8000
0% Min	0.0260

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.026	1126	5.963	1122
0.800	1095	6.373	1147
0.820	1104	6.655	1120
0.830	1092	6.880	1145
1.061	1044	8.229	1144

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	13.2740741	Sum Observations	1792
Std Deviation	2.49904349	Variance	6.24521835
Skewness	-0.5648823	Kurtosis	-0.4500433
Uncorrected SS	24624	Corrected SS	836.859259
Coeff Variation	18.8264995	Std Error Mean	0.21508342

Basic Statistical Measures			
Location		Variability	
Mean	13.27407	Std Deviation	2.49904
Median	14.00000	Variance	6.24522
Mode	15.00000	Range	11.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	61.71593	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18
99%	17
95%	17
90%	16
75% Q3	15
50% Median	14
25% Q1	11
10%	10
5%	8
1%	8
0% Min	7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SRP_ugL

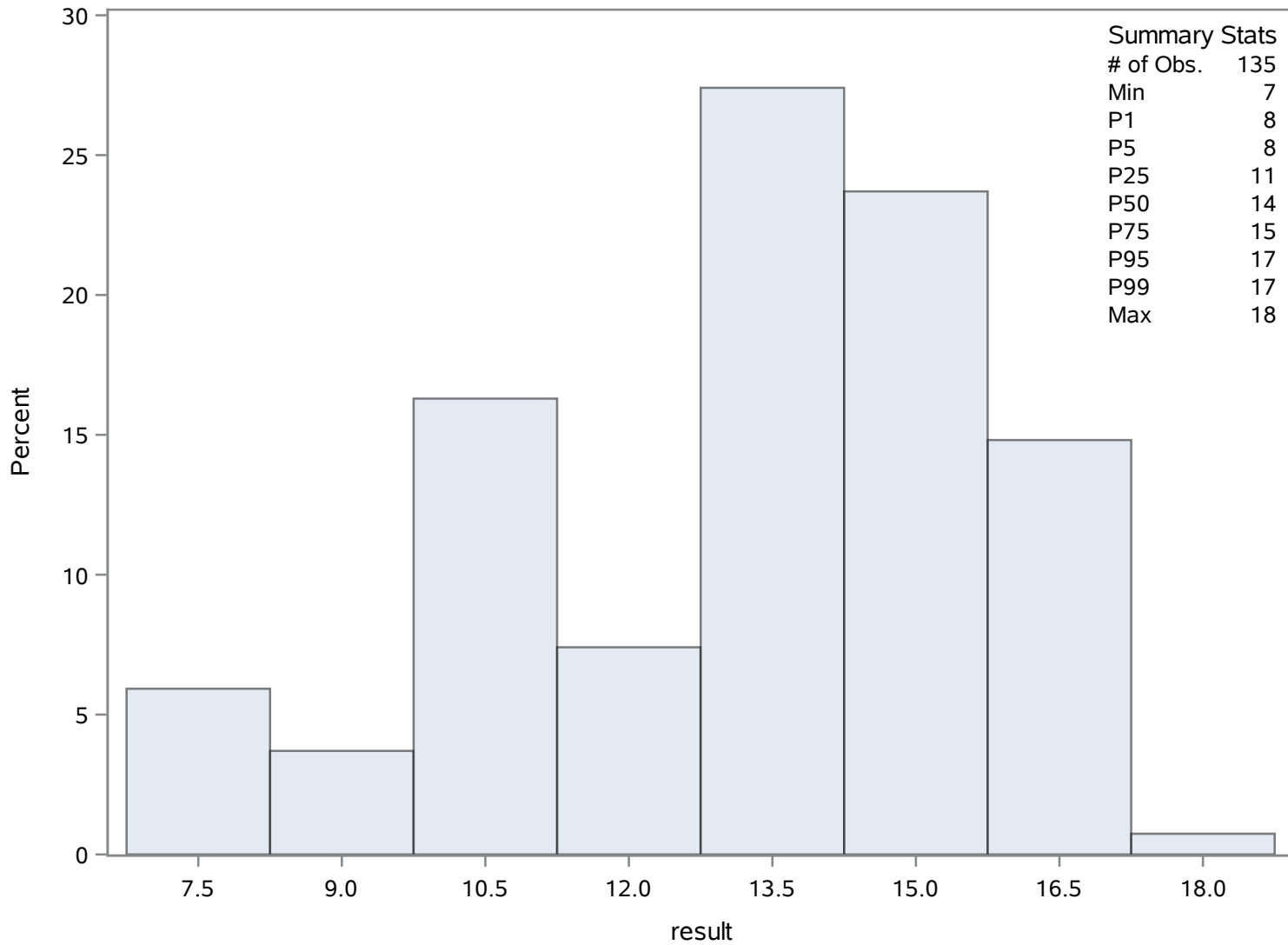
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	1197	17	1258
8	1269	17	1263
8	1267	17	1294
8	1257	17	1308
8	1256	18	1239

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.6284058	Sum Observations	3260.72
Std Deviation	1.22764105	Variance	1.50710255
Skewness	0.23736668	Kurtosis	-0.2596559
Uncorrected SS	77252.0884	Corrected SS	206.473049
Coeff Variation	5.19561523	Std Error Mean	0.10450375

Basic Statistical Measures			
Location		Variability	
Mean	23.62841	Std Deviation	1.22764
Median	23.50000	Variance	1.50710
Mode	23.40000	Range	5.73000
		Interquartile Range	1.80000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	226.101	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.50
99%	26.50
95%	25.81
90%	25.36
75% Q3	24.60
50% Median	23.50
25% Q1	22.80
10%	22.11
5%	21.79
1%	20.80
0% Min	20.77

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TEMP_C

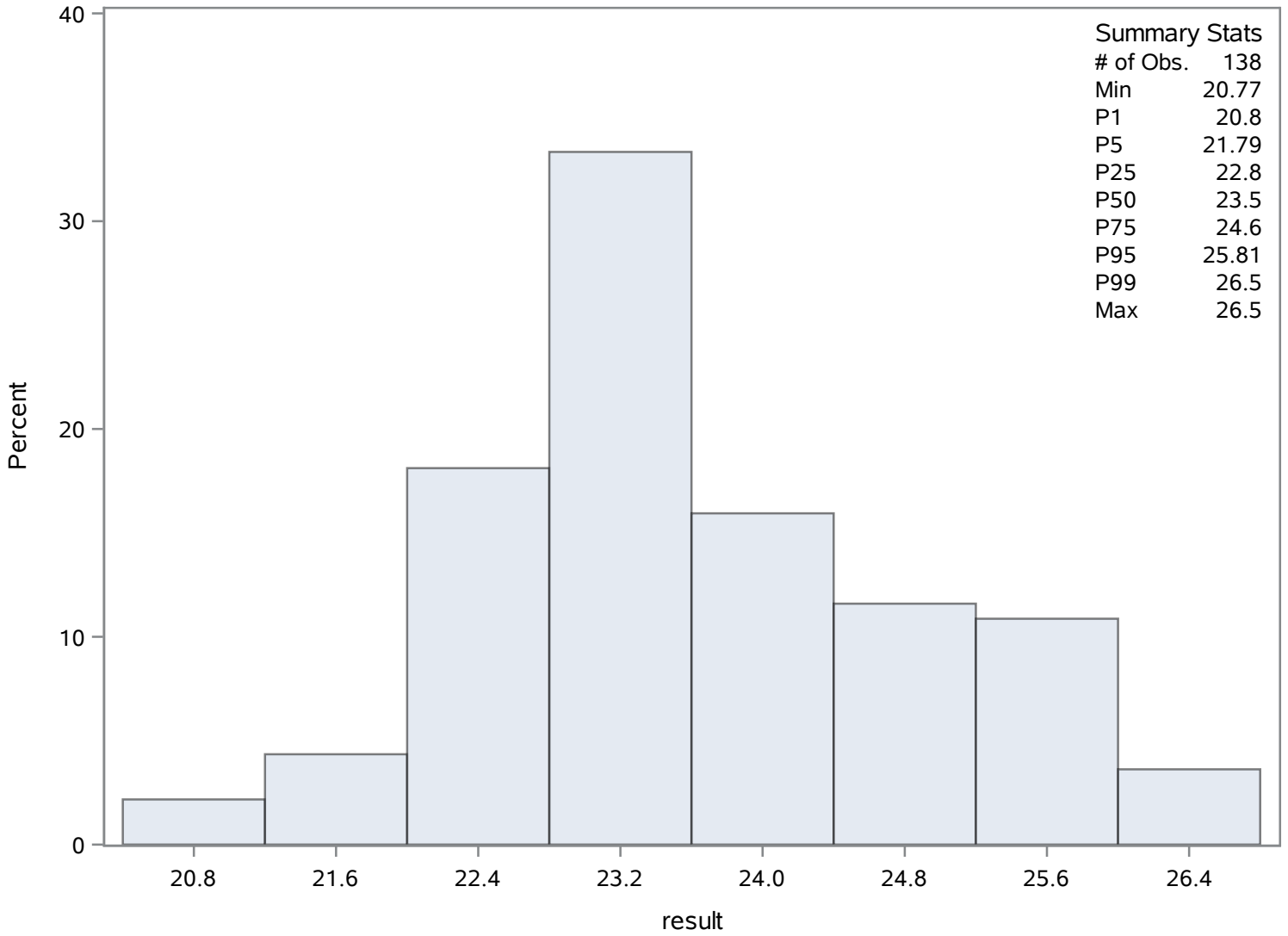
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.77	1438	26.0	1405
20.80	1341	26.2	1334
21.12	1377	26.2	1407
21.20	1340	26.5	1333
21.20	1339	26.5	1335

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	527.369565	Sum Observations	72777
Std Deviation	103.206057	Variance	10651.4902
Skewness	0.00929954	Kurtosis	0.52212918
Uncorrected SS	39839629	Corrected SS	1459254.15
Coeff Variation	19.5699683	Std Error Mean	8.78548299

Basic Statistical Measures			
Location		Variability	
Mean	527.3696	Std Deviation	103.20606
Median	540.0000	Variance	10651
Mode	550.0000	Range	590.00000
		Interquartile Range	150.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	60.02738	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	870
99%	820
95%	680
90%	640
75% Q3	600
50% Median	540
25% Q1	450
10%	410
5%	332
1%	290
0% Min	280

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TN_ugl

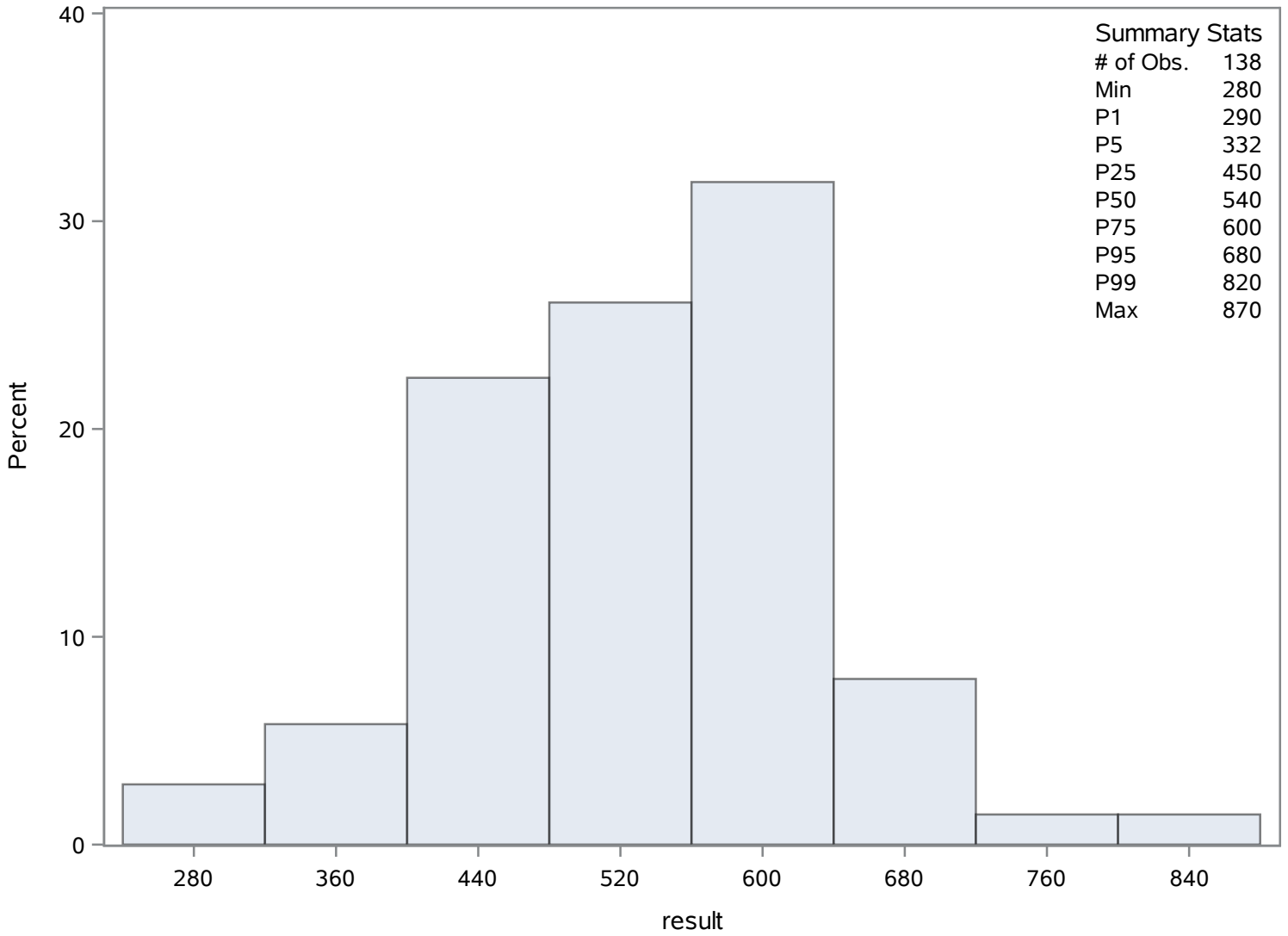
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
280	1473	700	1506
290	1471	730	1534
290	1461	740	1551
310	1472	820	1583
320	1460	870	1582

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	19.6594203	Sum Observations	2713
Std Deviation	4.42206871	Variance	19.5546916
Skewness	1.40930921	Kurtosis	3.10907169
Uncorrected SS	56015	Corrected SS	2678.99275
Coeff Variation	22.493383	Std Error Mean	0.37643149

Basic Statistical Measures			
Location		Variability	
Mean	19.65942	Std Deviation	4.42207
Median	19.00000	Variance	19.55469
Mode	18.00000	Range	26.00000
		Interquartile Range	4.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	52.22576	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	37
99%	35
95%	27
90%	25
75% Q3	21
50% Median	19
25% Q1	17
10%	15
5%	14
1%	11
0% Min	11

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TP_ugl

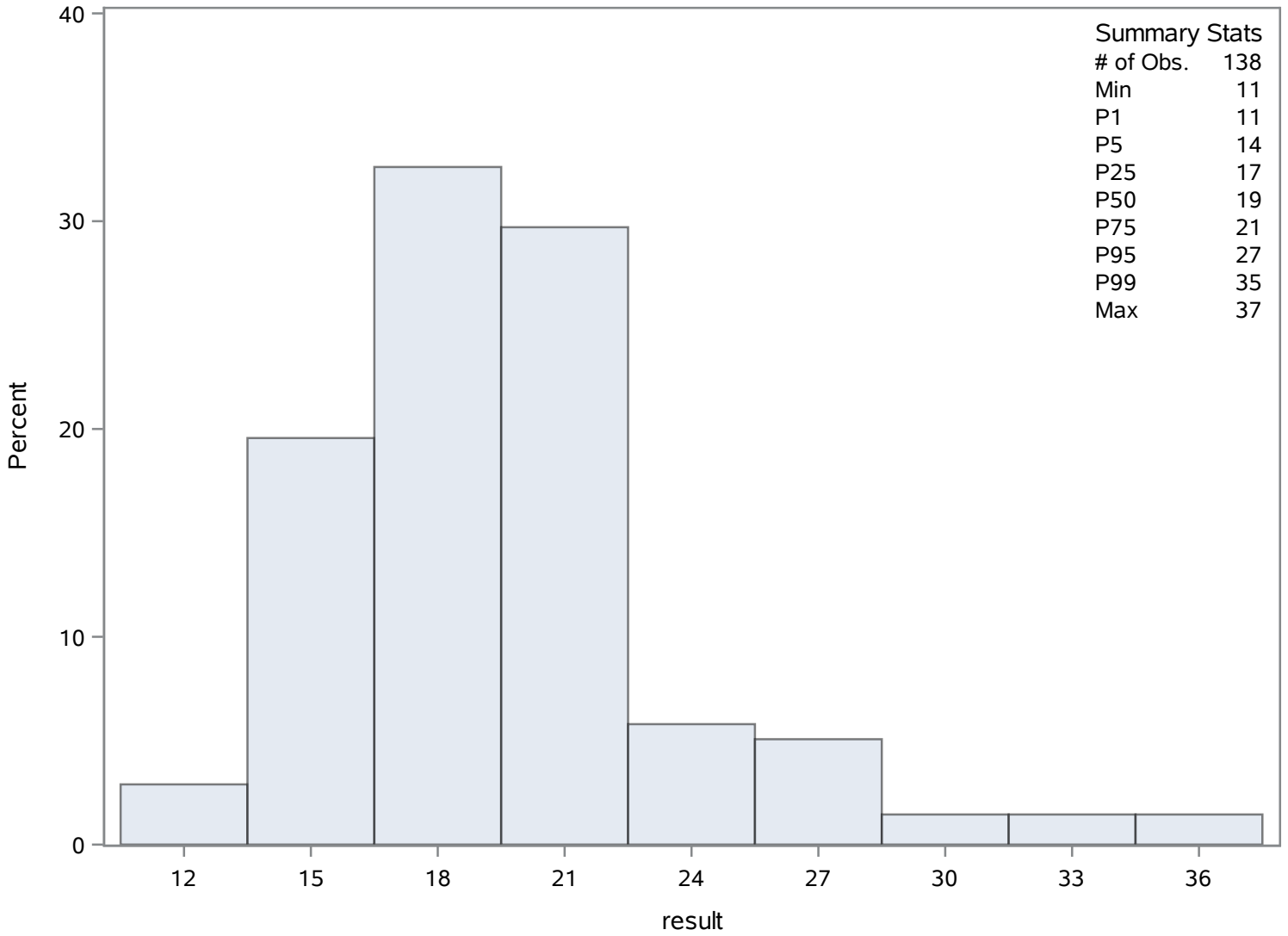
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11	1716	31	1656
11	1597	34	1652
13	1724	34	1698
13	1598	35	1643
14	1723	37	1697

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: UF 5 Rivers Study

Transect 2

pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.75907407	Sum Observations	837.98
Std Deviation	0.25820204	Variance	0.06666829
Skewness	0.74526297	Kurtosis	-0.202362
Uncorrected SS	6509.0824	Corrected SS	7.13350741
Coeff Variation	3.32774295	Std Error Mean	0.0248455

Basic Statistical Measures			
Location		Variability	
Mean	7.759074	Std Deviation	0.25820
Median	7.705000	Variance	0.06667
Mode	7.540000	Range	1.11000
		Interquartile Range	0.39000

Note: The mode displayed is the smallest of 4 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	312.2929	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.410
99%	8.410
95%	8.290
90%	8.140
75% Q3	7.940
50% Median	7.705
25% Q1	7.550
10%	7.470
5%	7.450

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Field

The UNIVARIATE Procedure
Variable: result

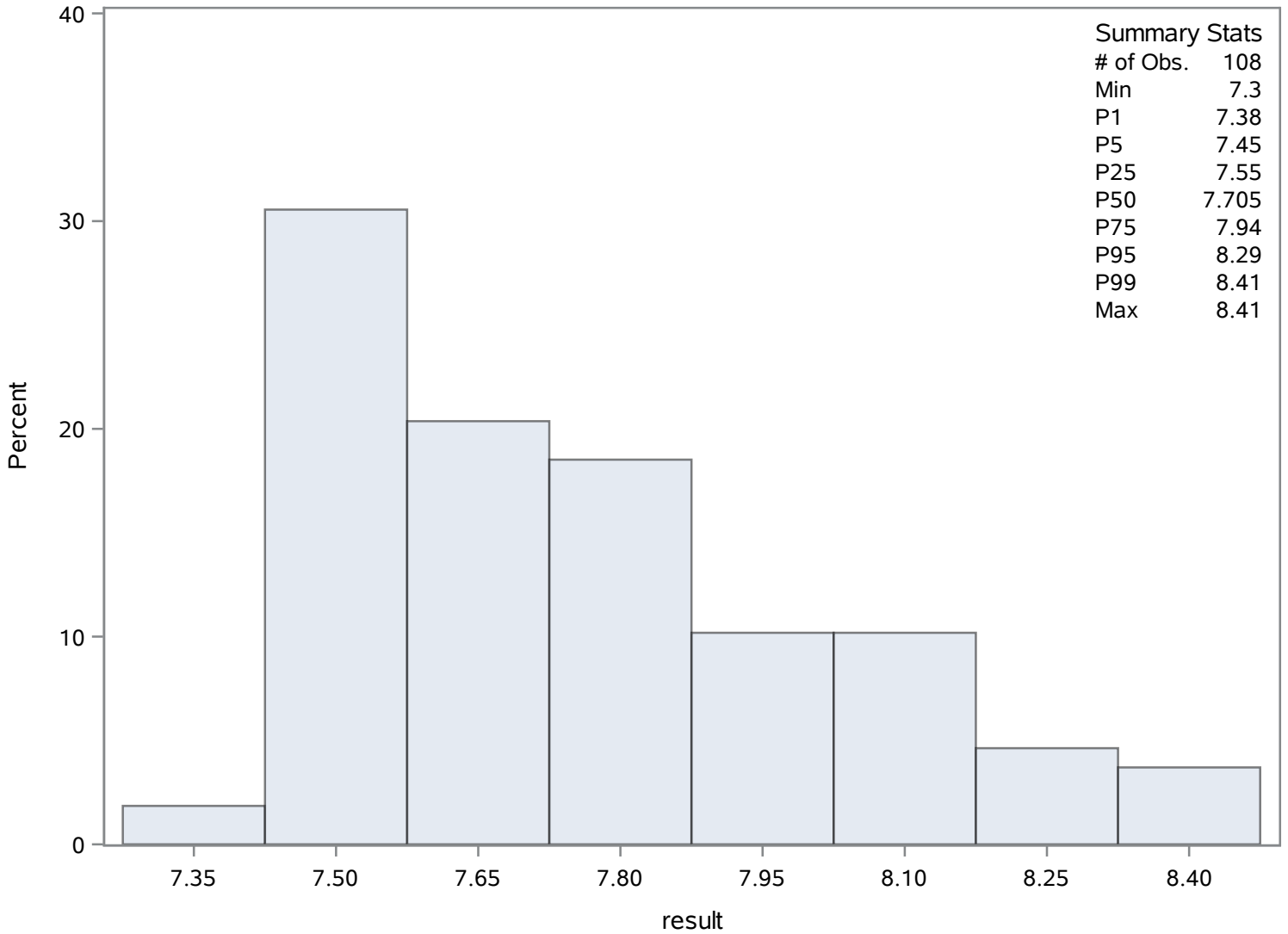
Quantiles (Definition 5)	
Level	Quantile
1%	7.380
0% Min	7.300

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.30	1780	8.30	1791
7.38	1781	8.36	1831
7.43	1794	8.39	1779
7.45	1816	8.41	1786
7.45	1793	8.41	1798

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.86811594	Sum Observations	1085.8
Std Deviation	0.22014776	Variance	0.04846504
Skewness	0.7799722	Kurtosis	1.02420245
Uncorrected SS	8549.84	Corrected SS	6.63971014
Coeff Variation	2.79797304	Std Error Mean	0.01874022

Basic Statistical Measures			
Location		Variability	
Mean	7.868116	Std Deviation	0.22015
Median	7.800000	Variance	0.04847
Mode	7.800000	Range	1.20000
		Interquartile Range	0.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	419.8518	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.6
99%	8.5
95%	8.4
90%	8.2
75% Q3	8.0
50% Median	7.8
25% Q1	7.7
10%	7.7
5%	7.5
1%	7.4
0% Min	7.4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Lab

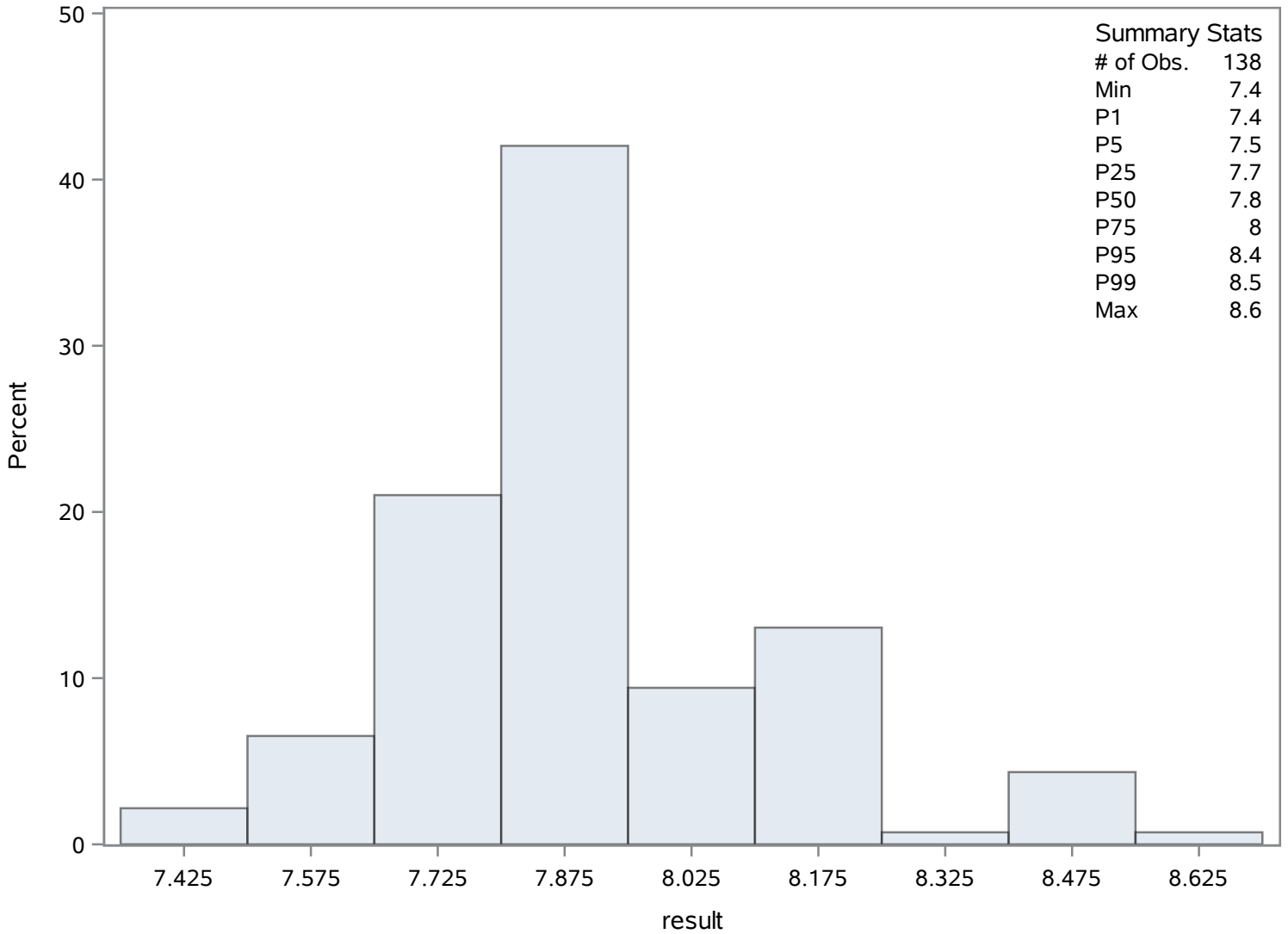
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.4	1967	8.4	1924
7.4	1966	8.4	1927
7.4	1864	8.4	1928
7.5	1968	8.5	1857
7.5	1865	8.6	1929

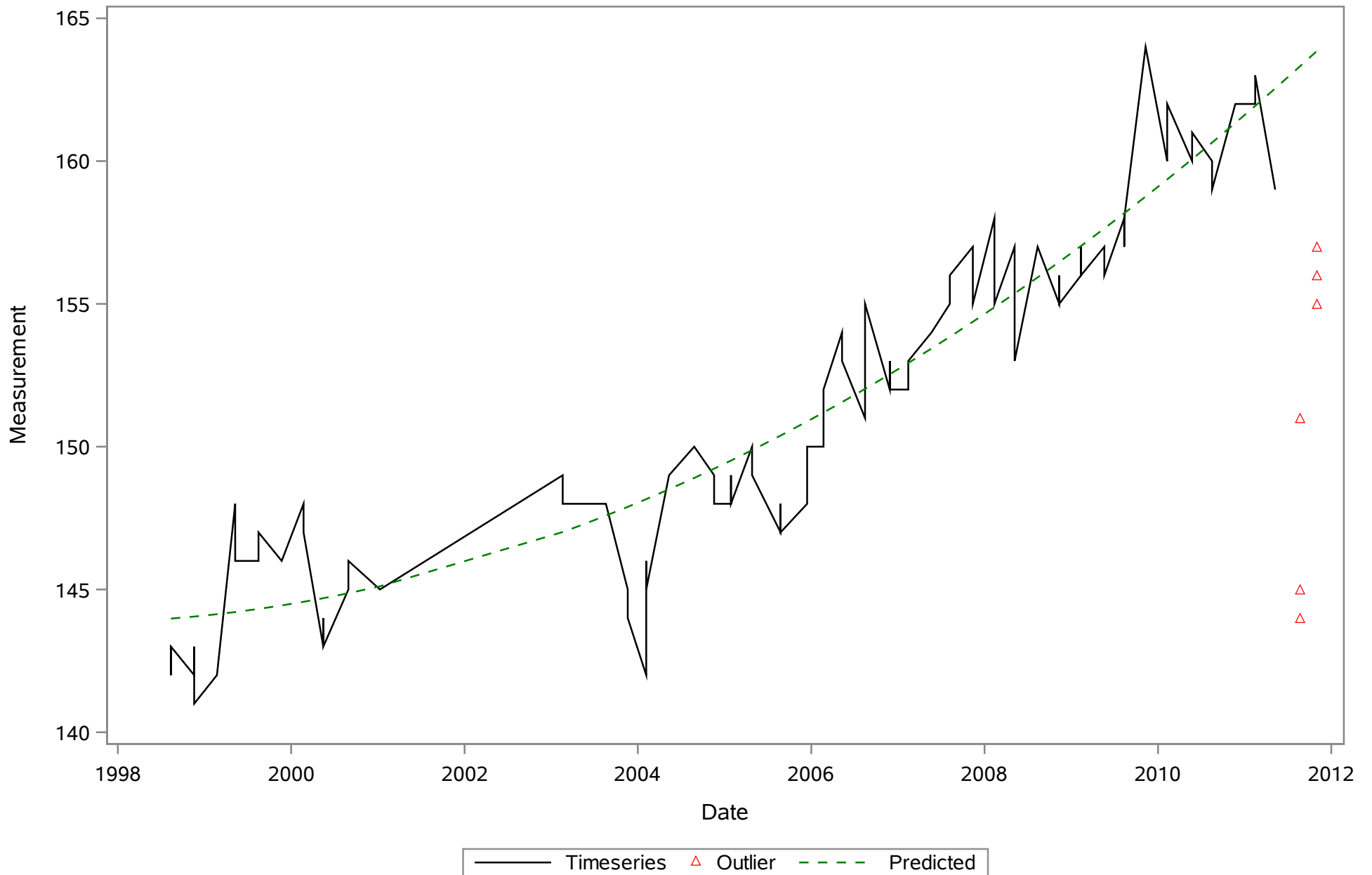
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Lab

The UNIVARIATE Procedure

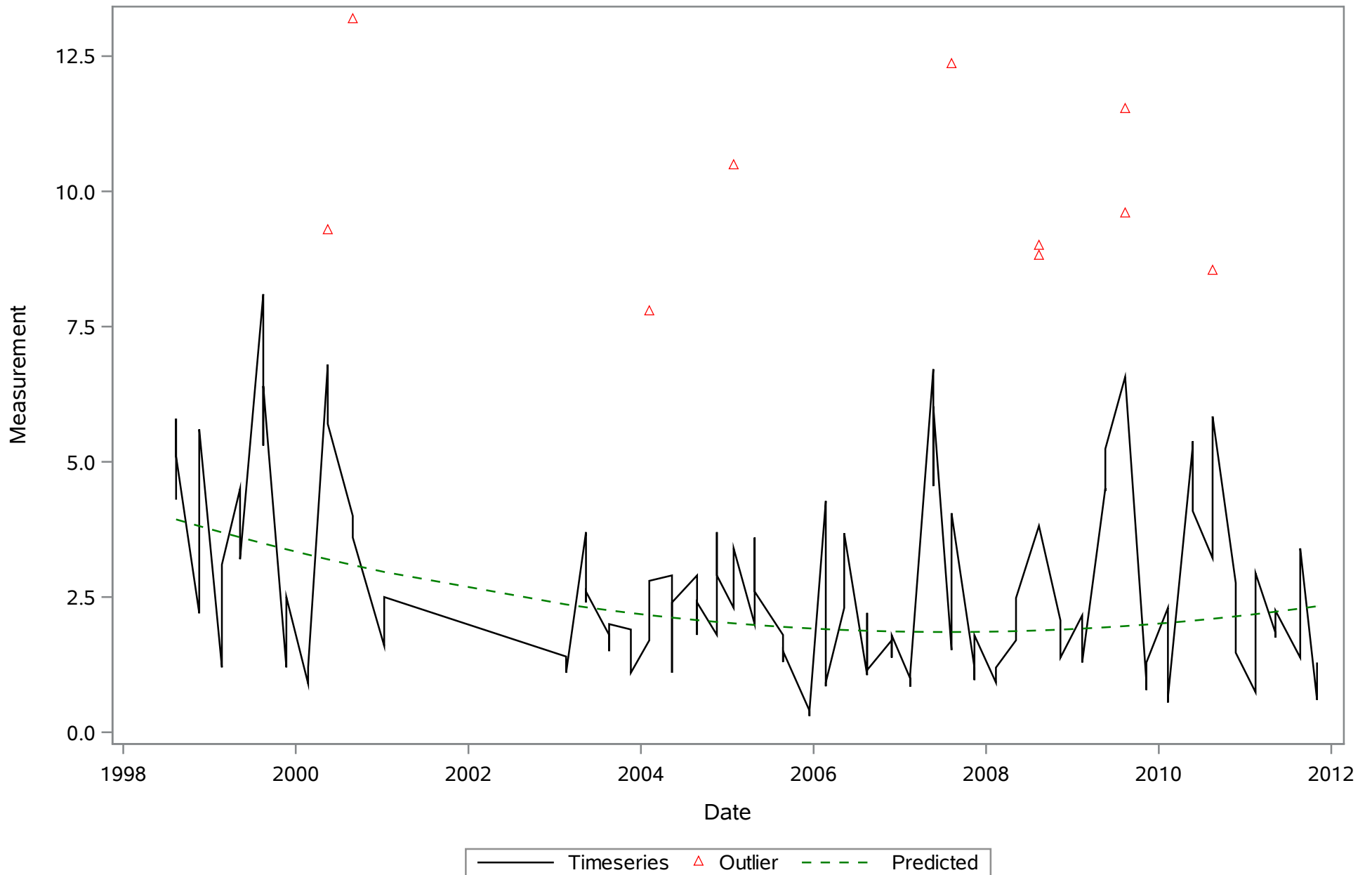
Distribution of result



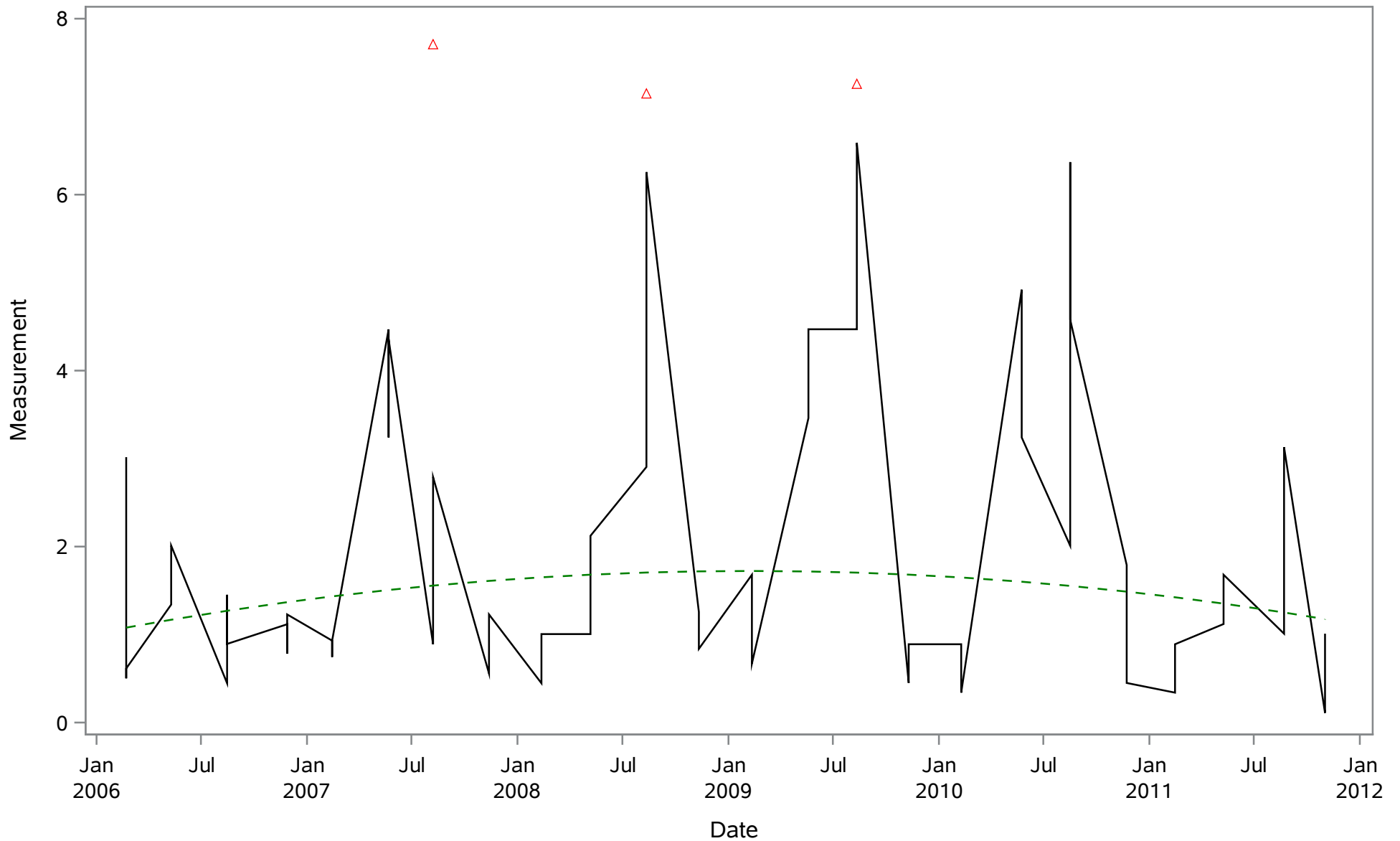
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_Uncor_ugL

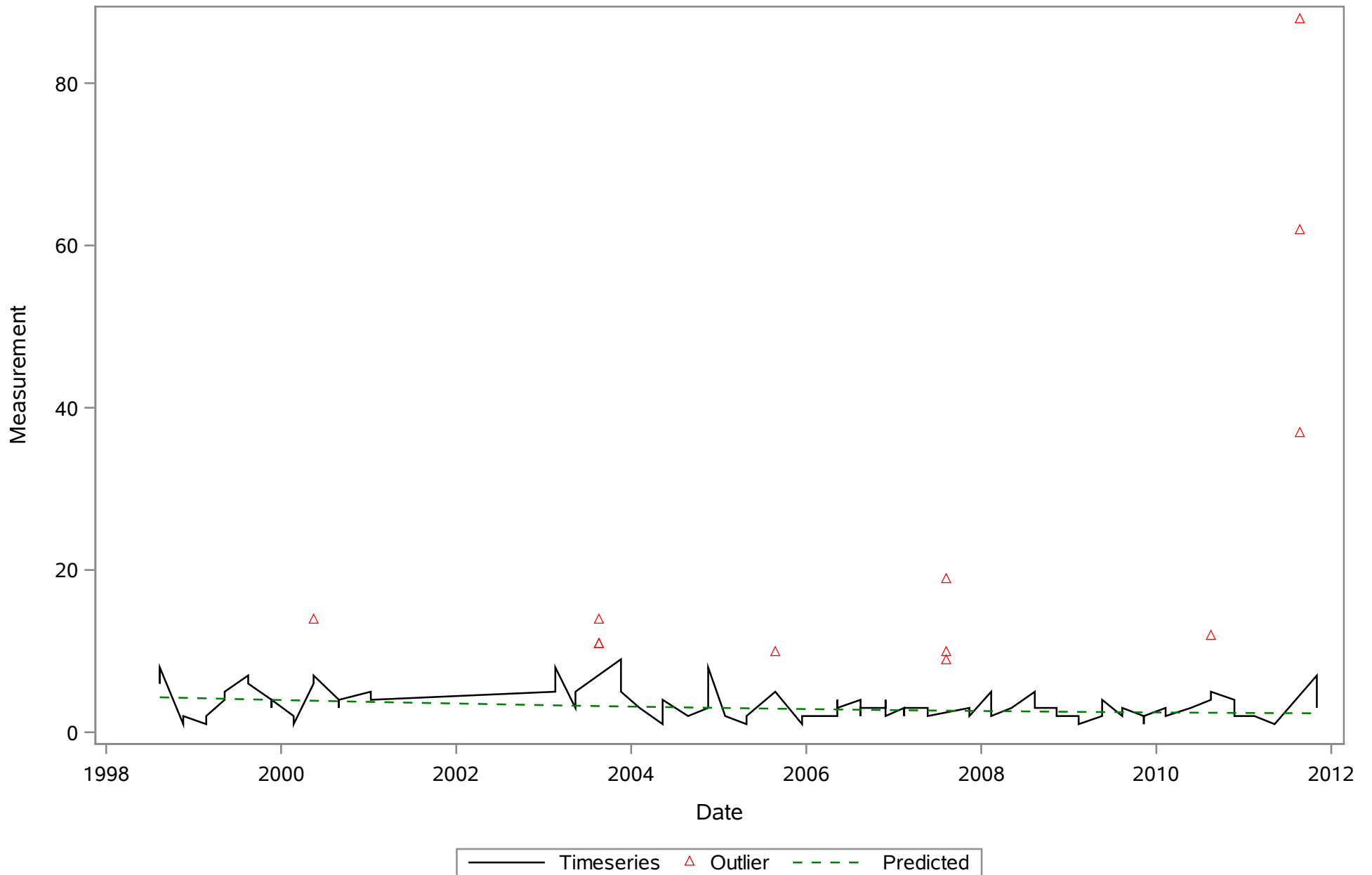


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_cor_ugl

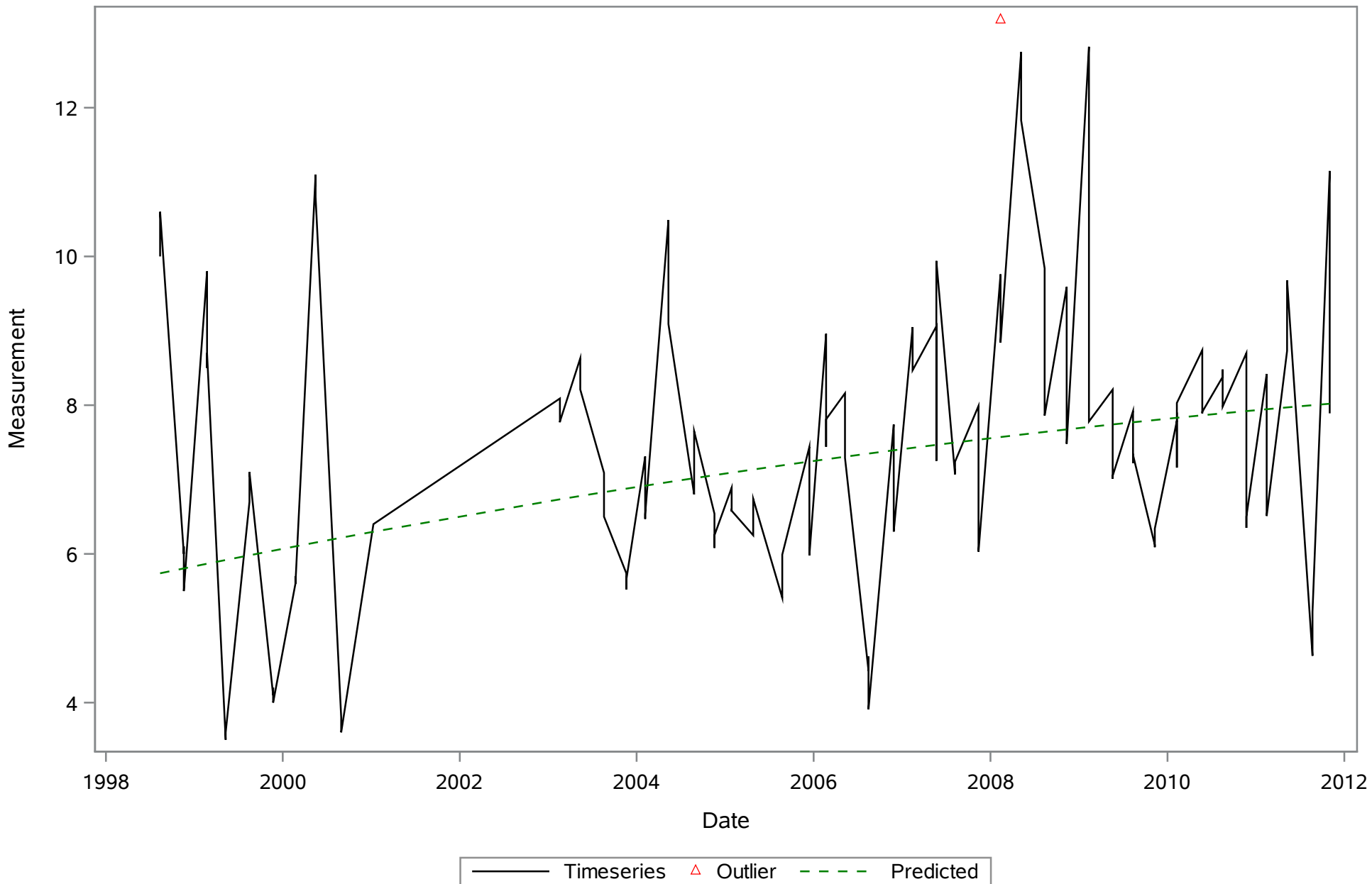


— Timeseries △ Outlier - - - Predicted

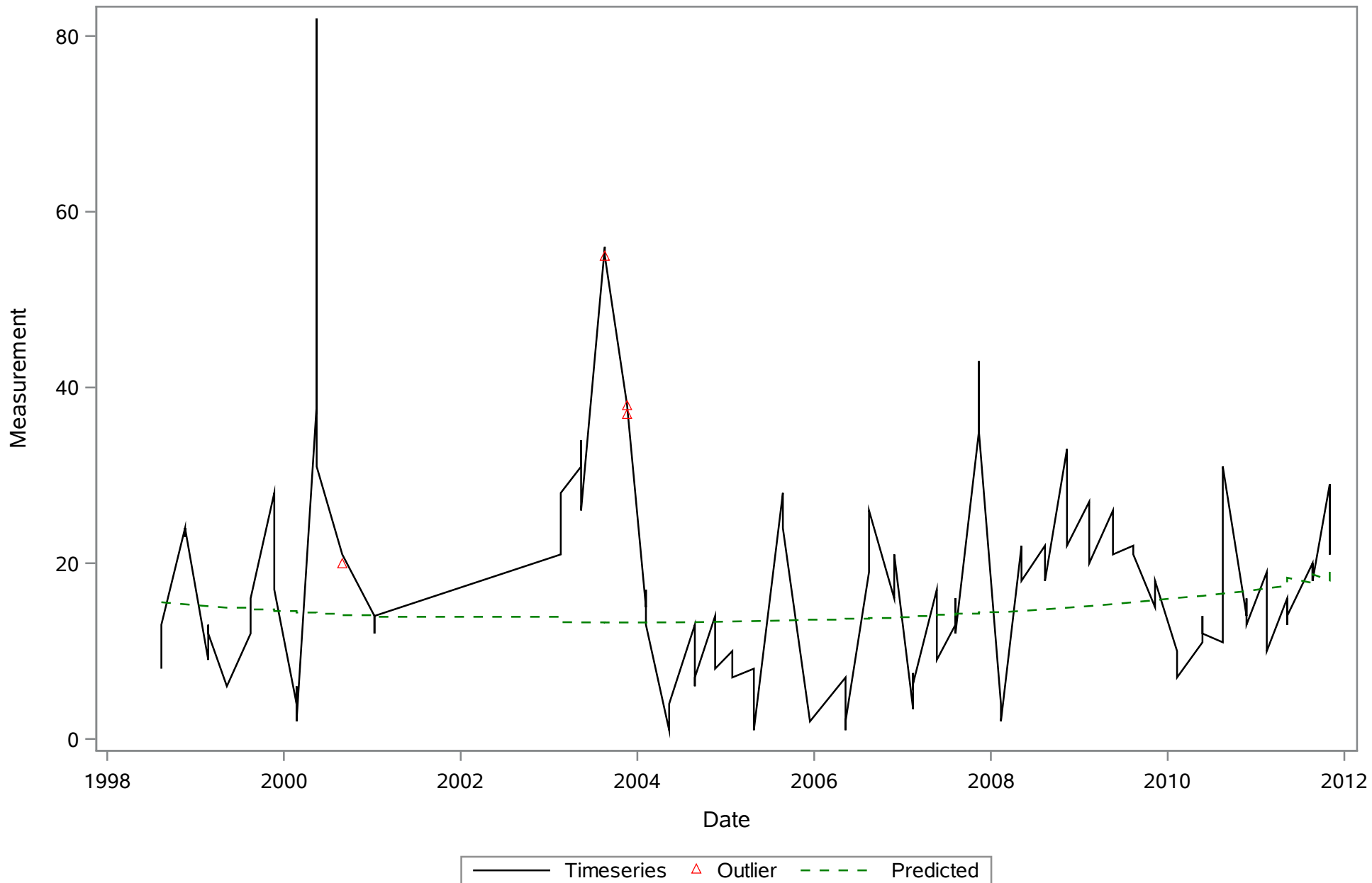
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
COLOR_PtCo



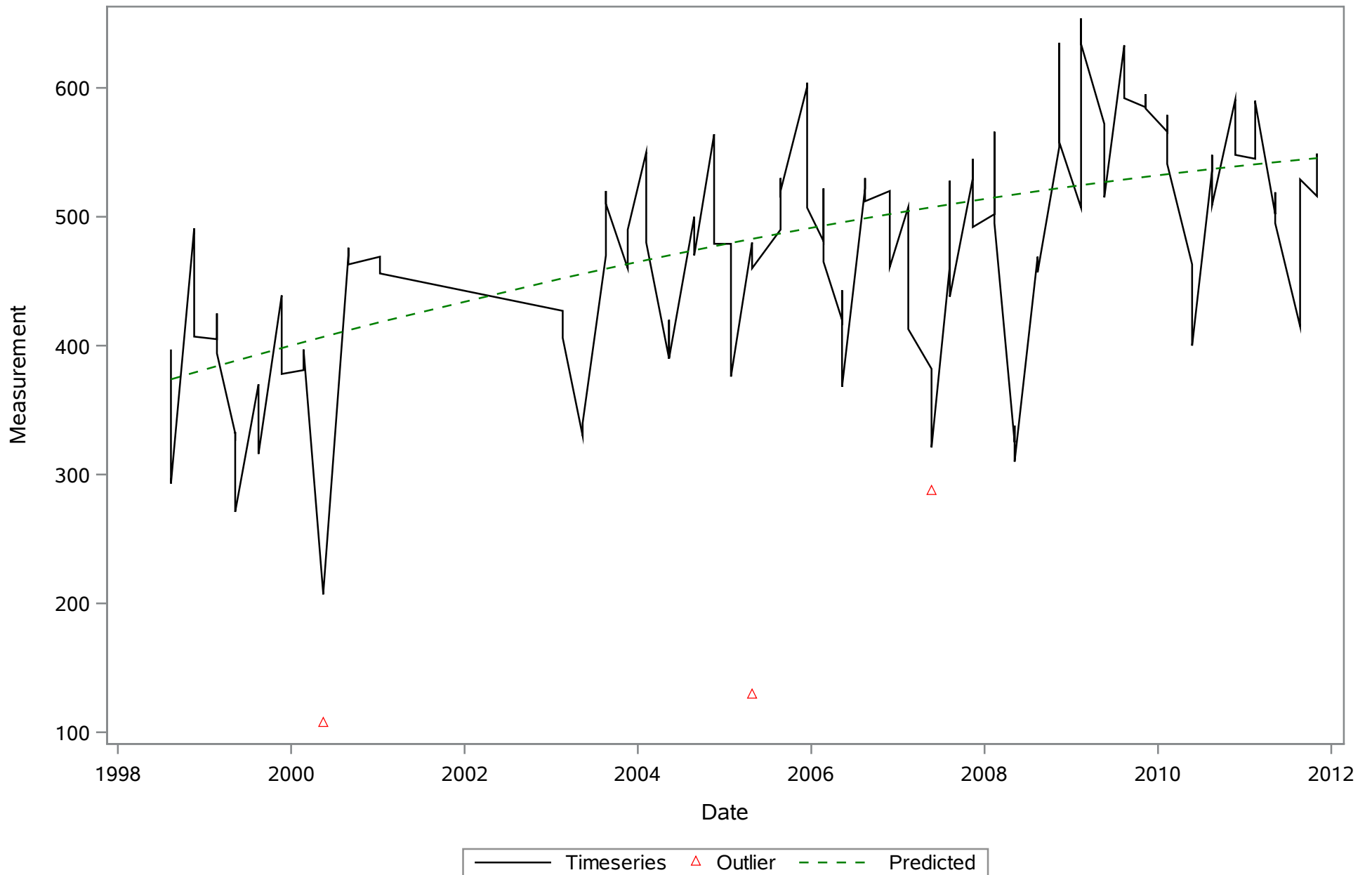
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
DO_mgL



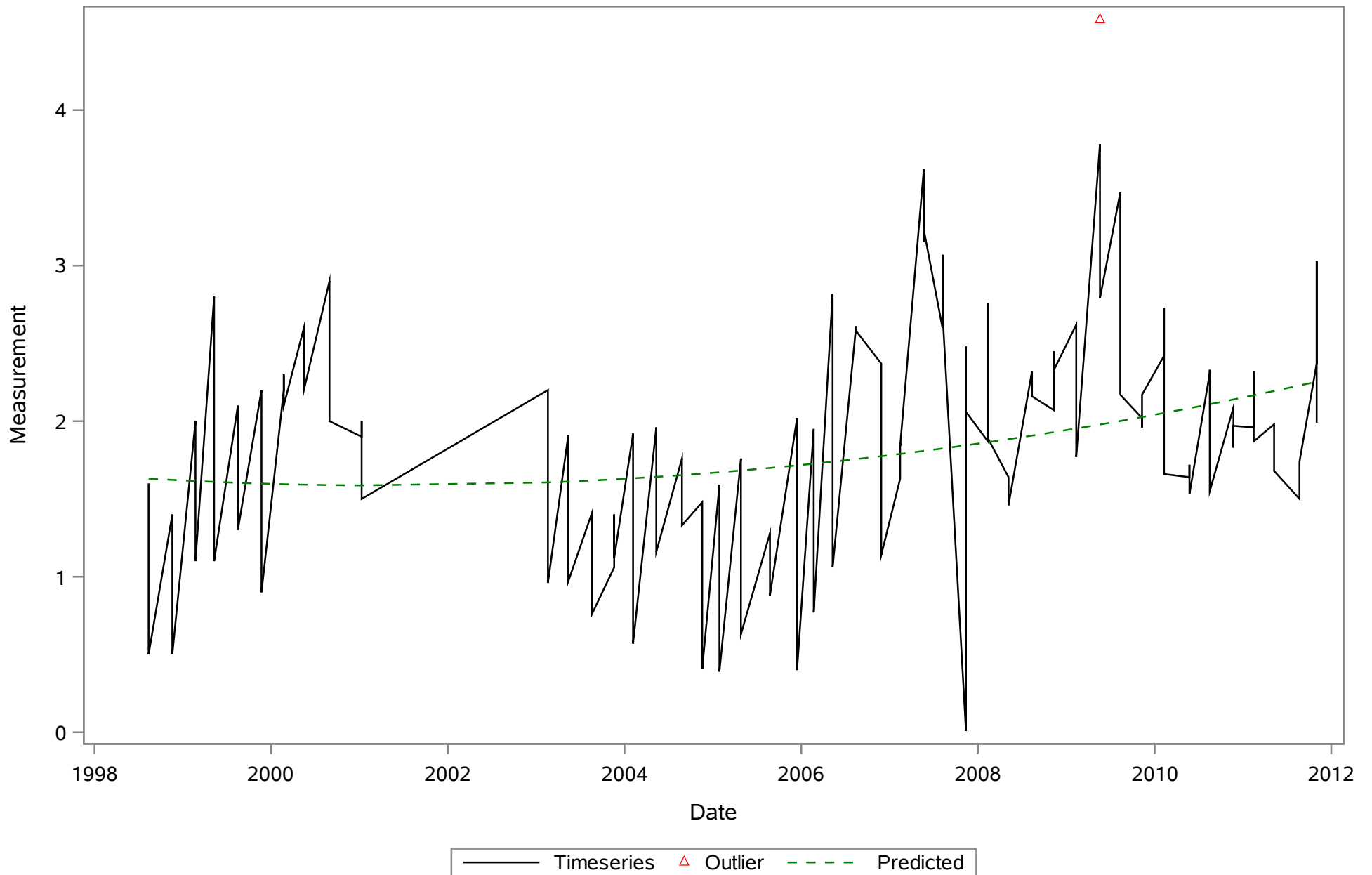
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NH4_ugl



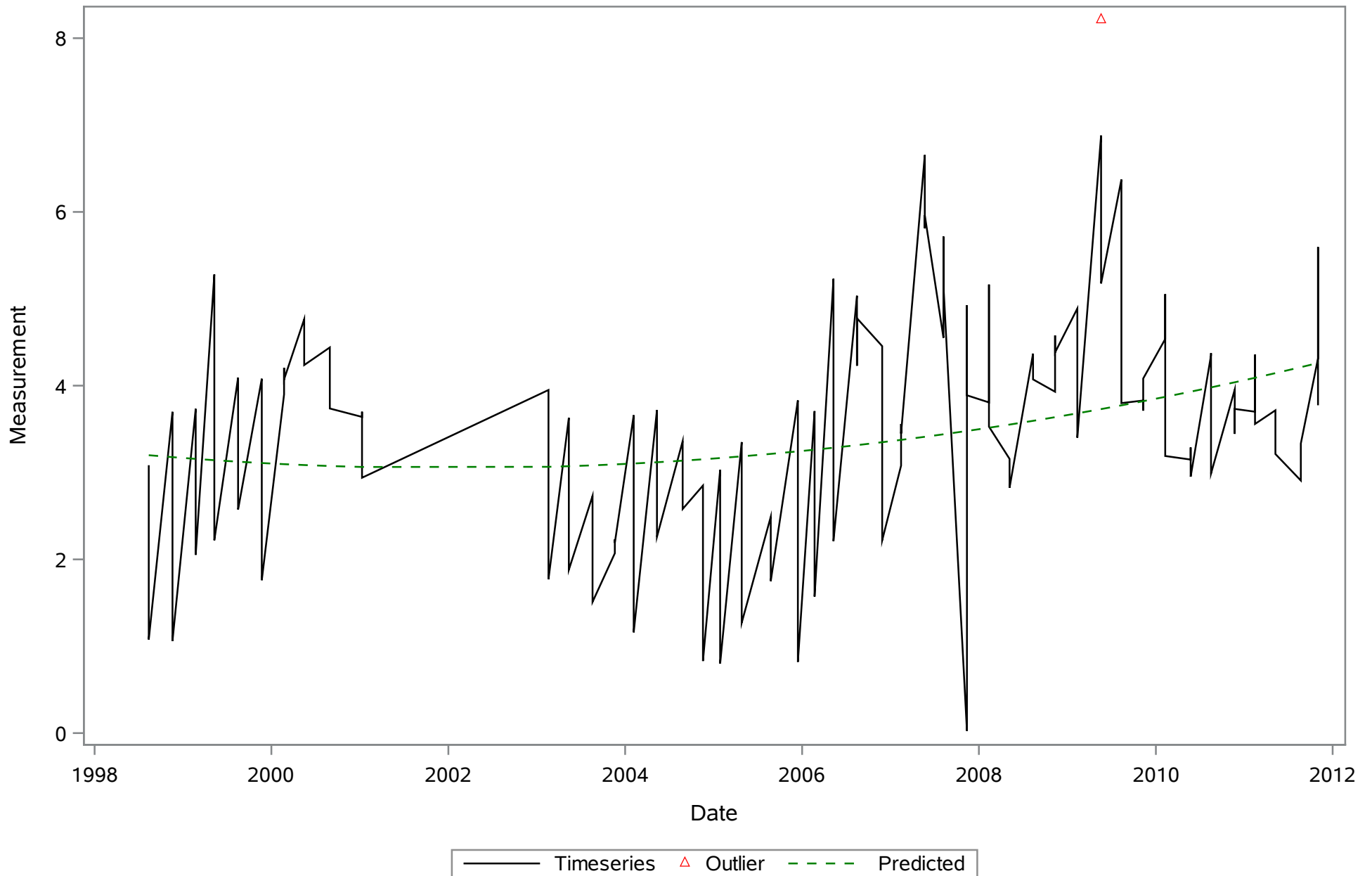
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NO3_ugL



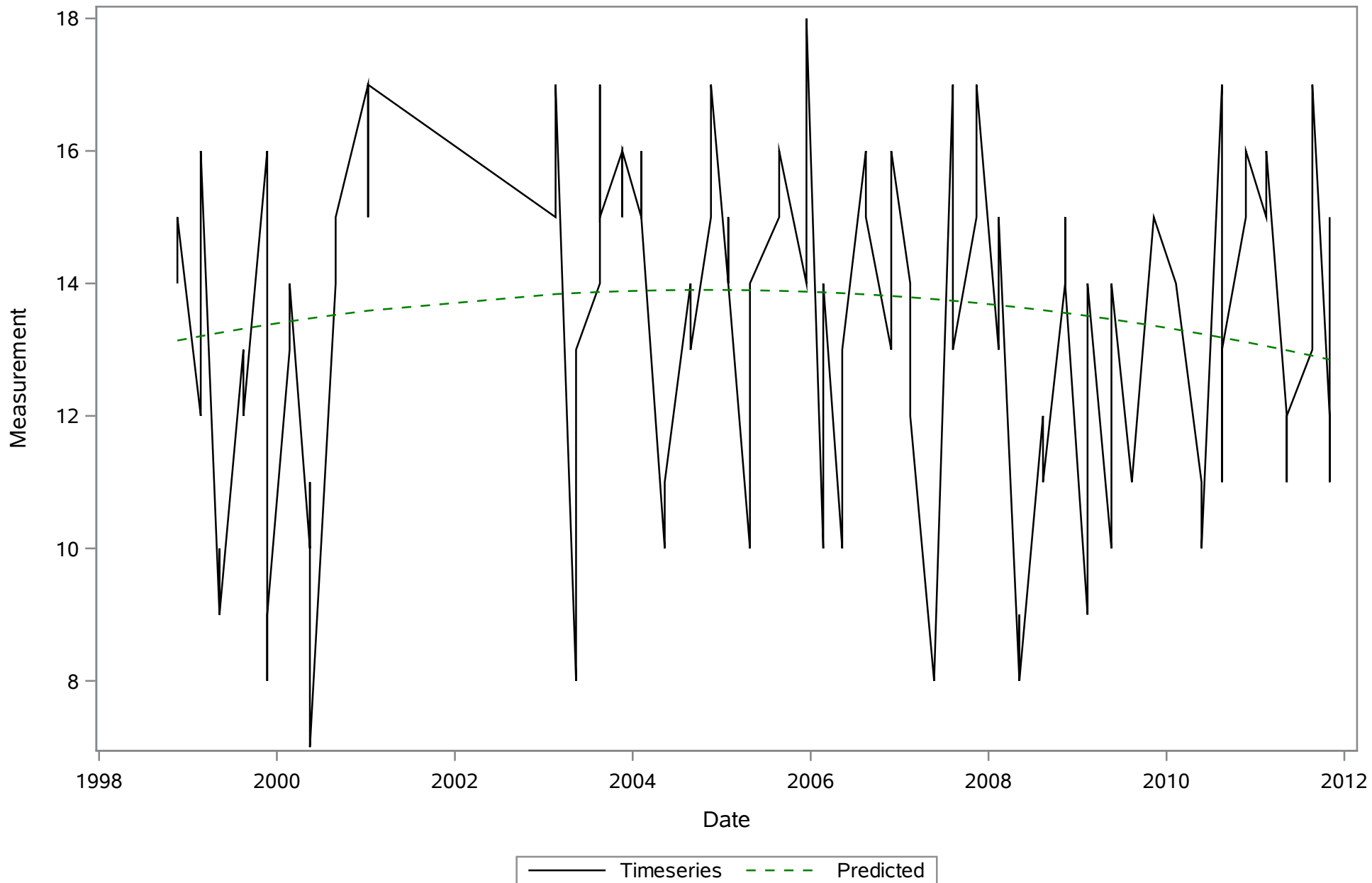
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SAL_Perc



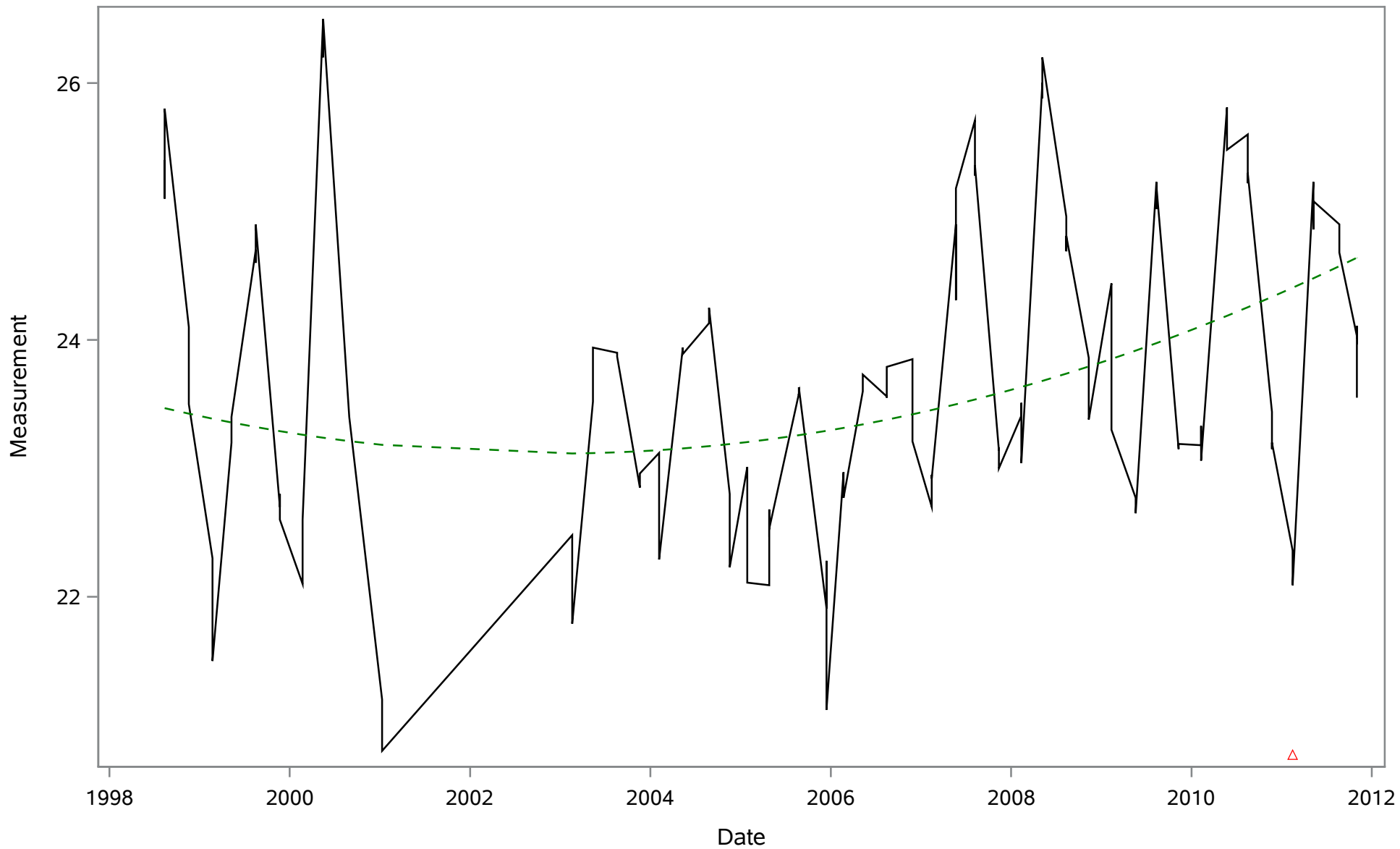
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SPCOND_mS_cm



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SRP_ugL

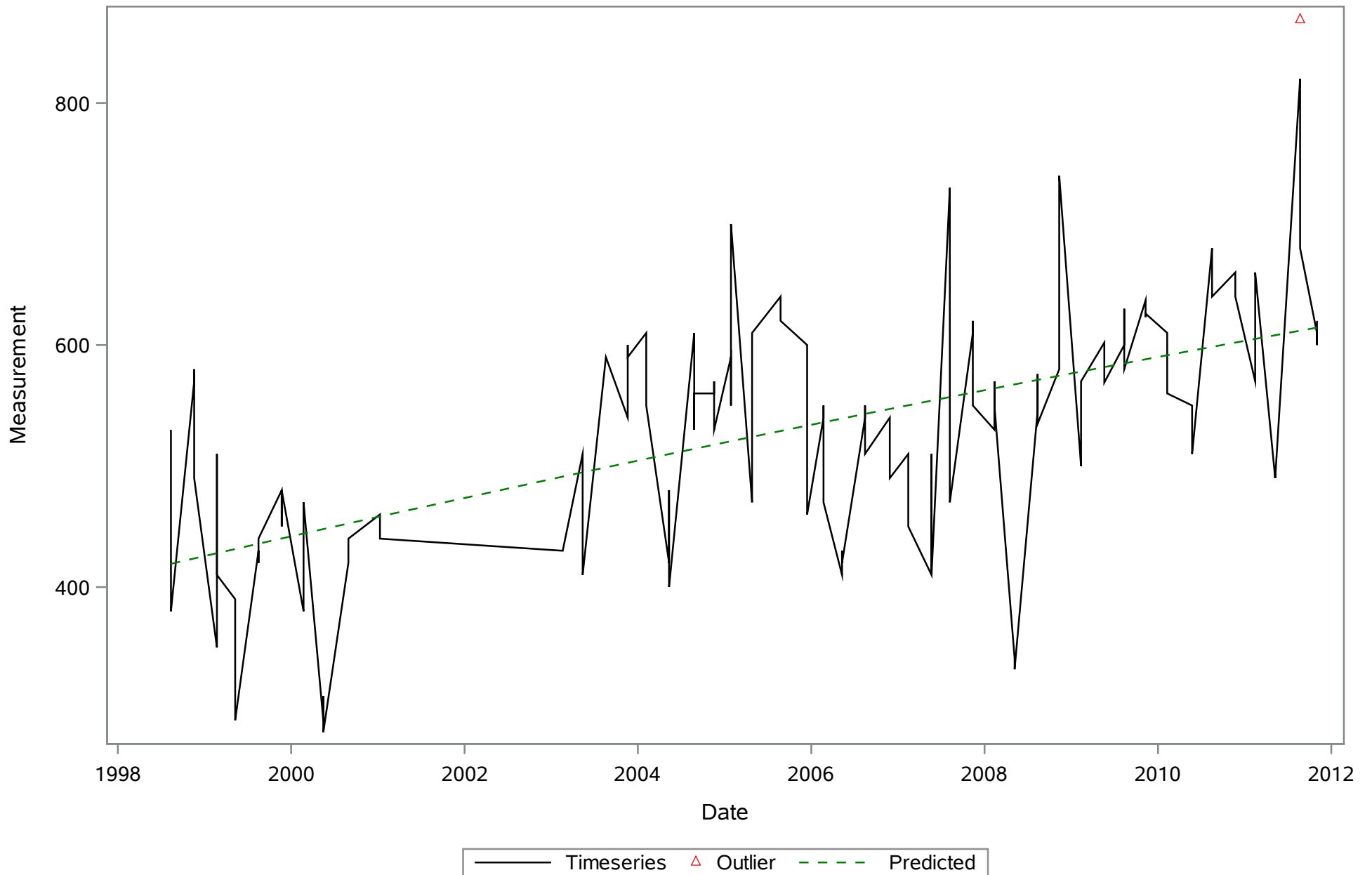


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TEMP_C

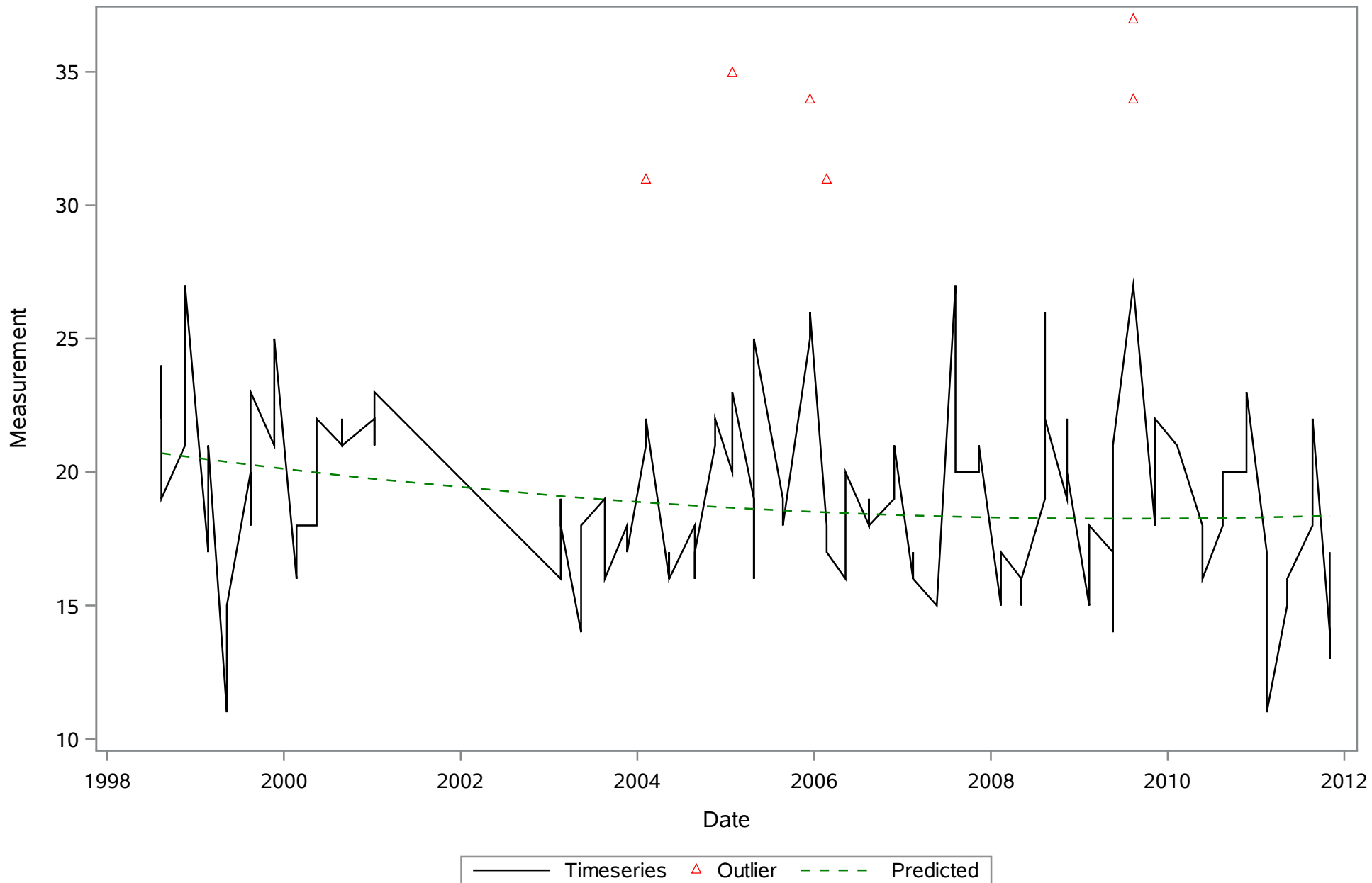


— Timeseries △ Outlier - - - Predicted

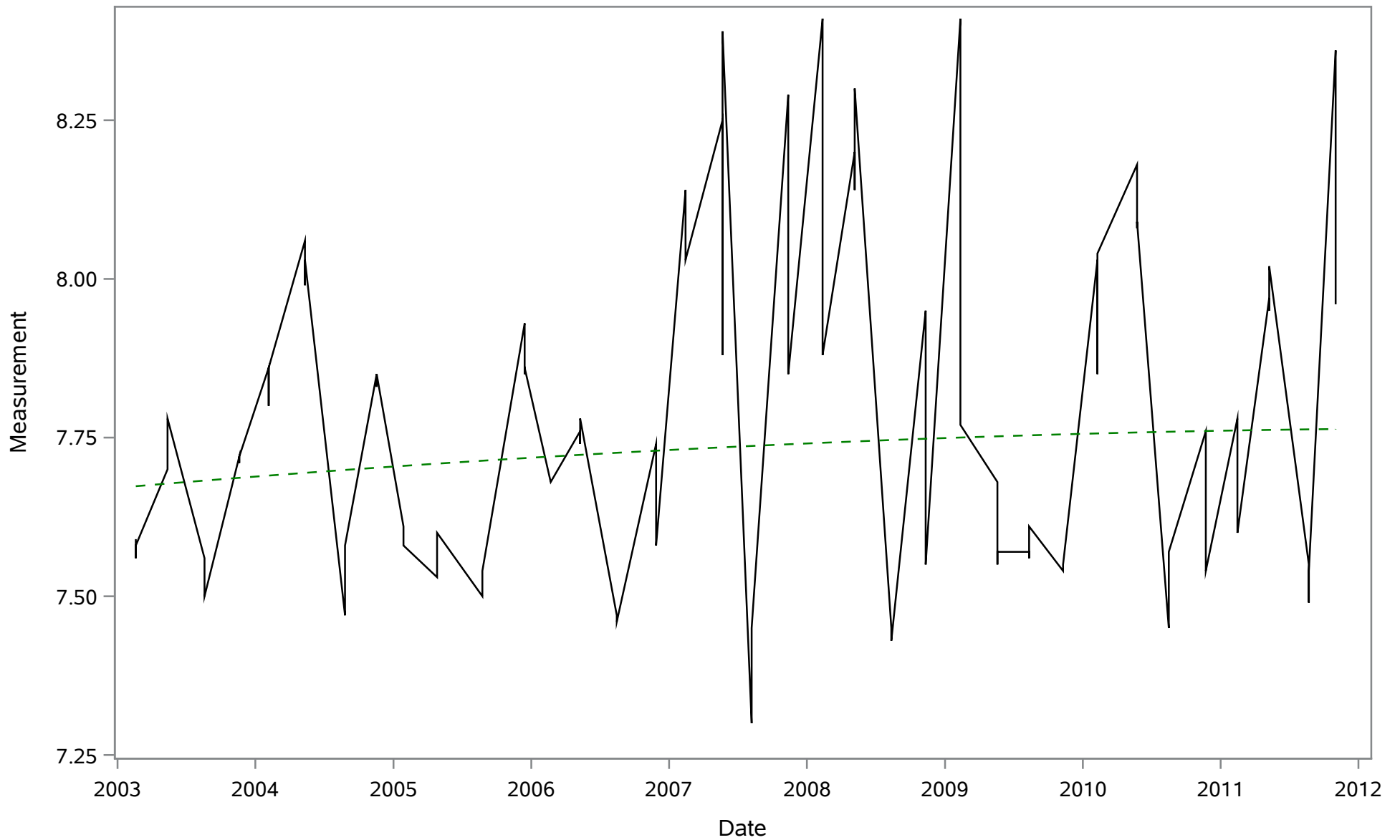
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TP_ugl



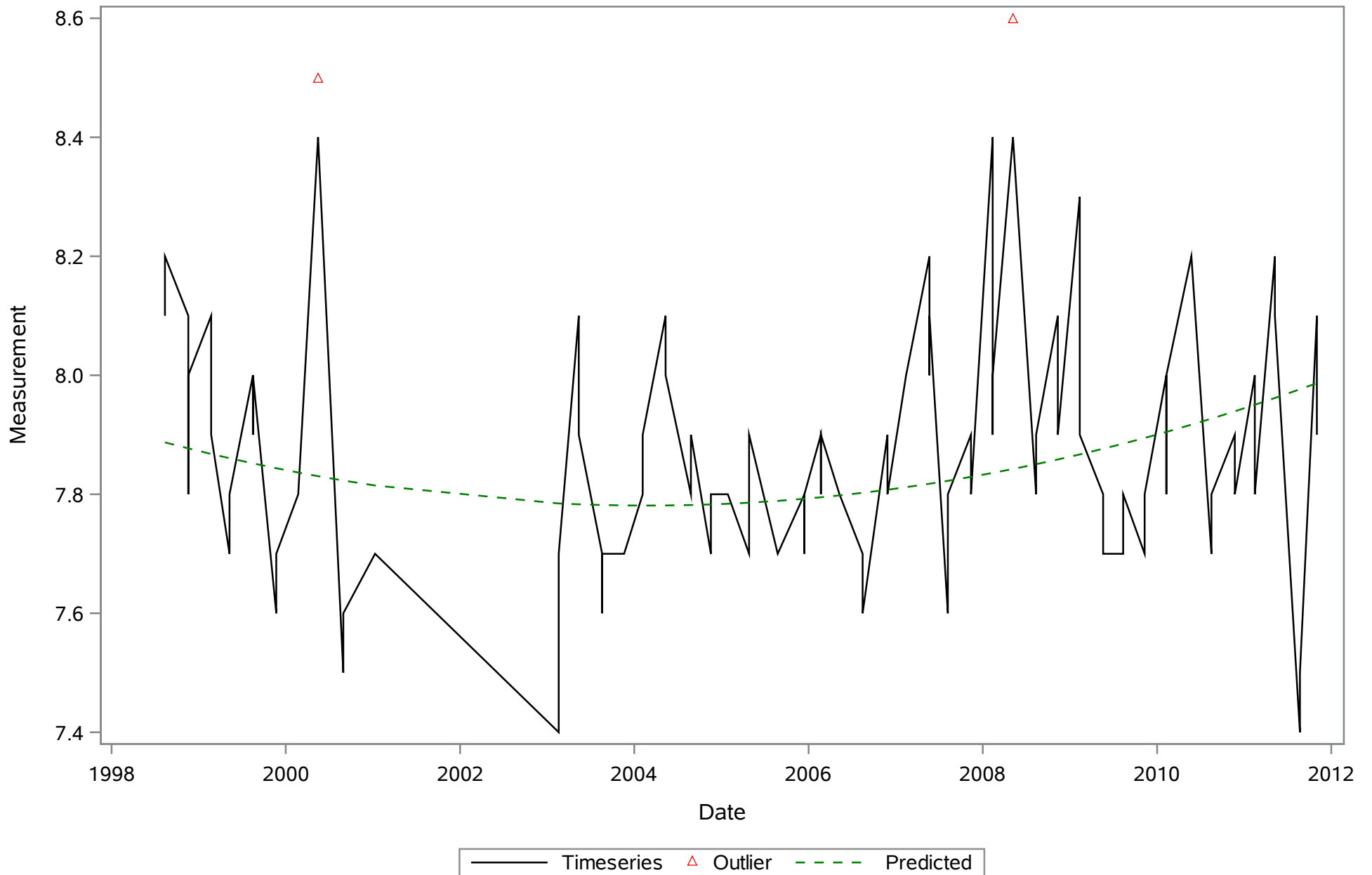
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Field



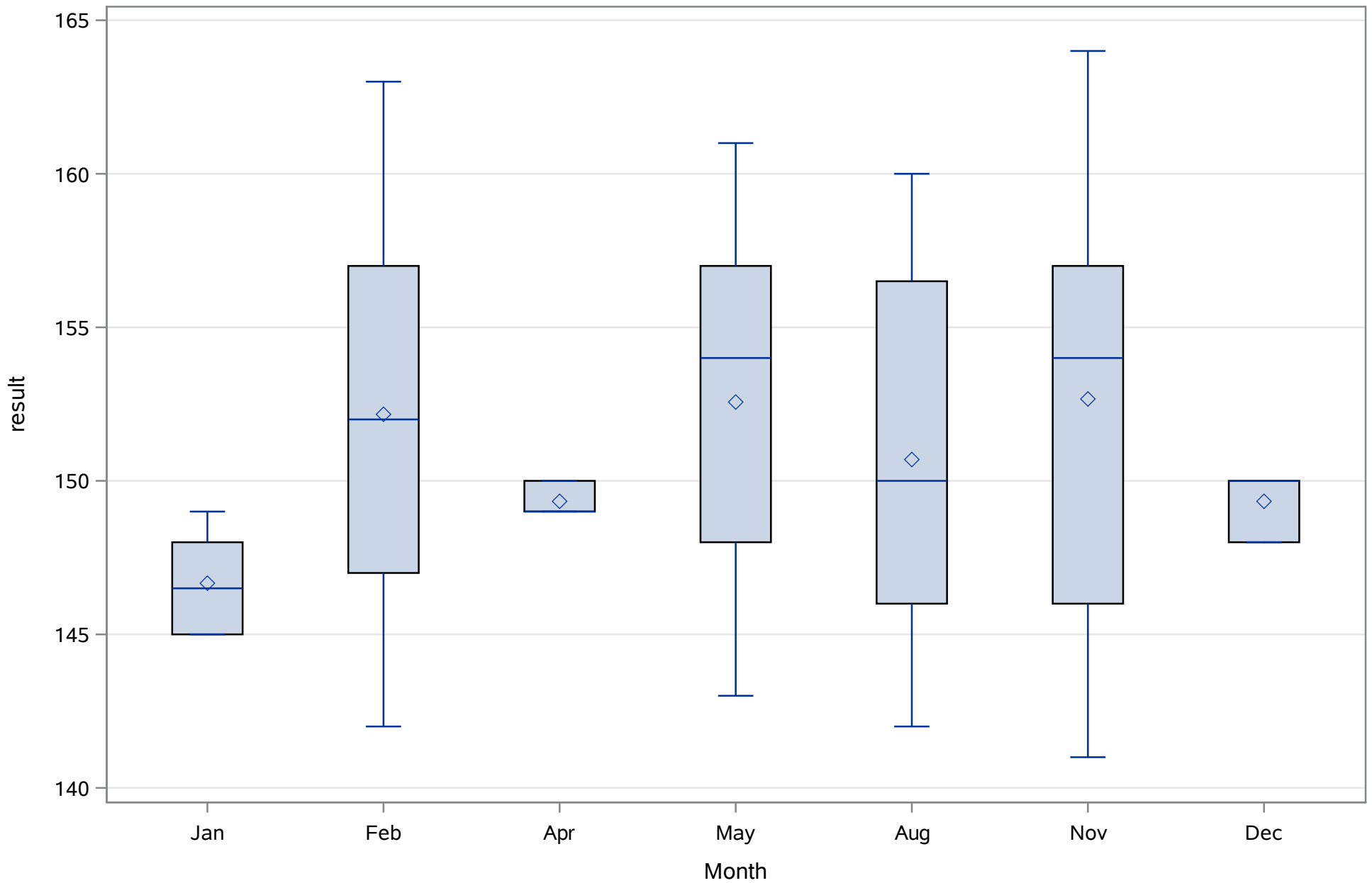
— Timeseries - - - Predicted

Chassahowitzka River - Fixed Station

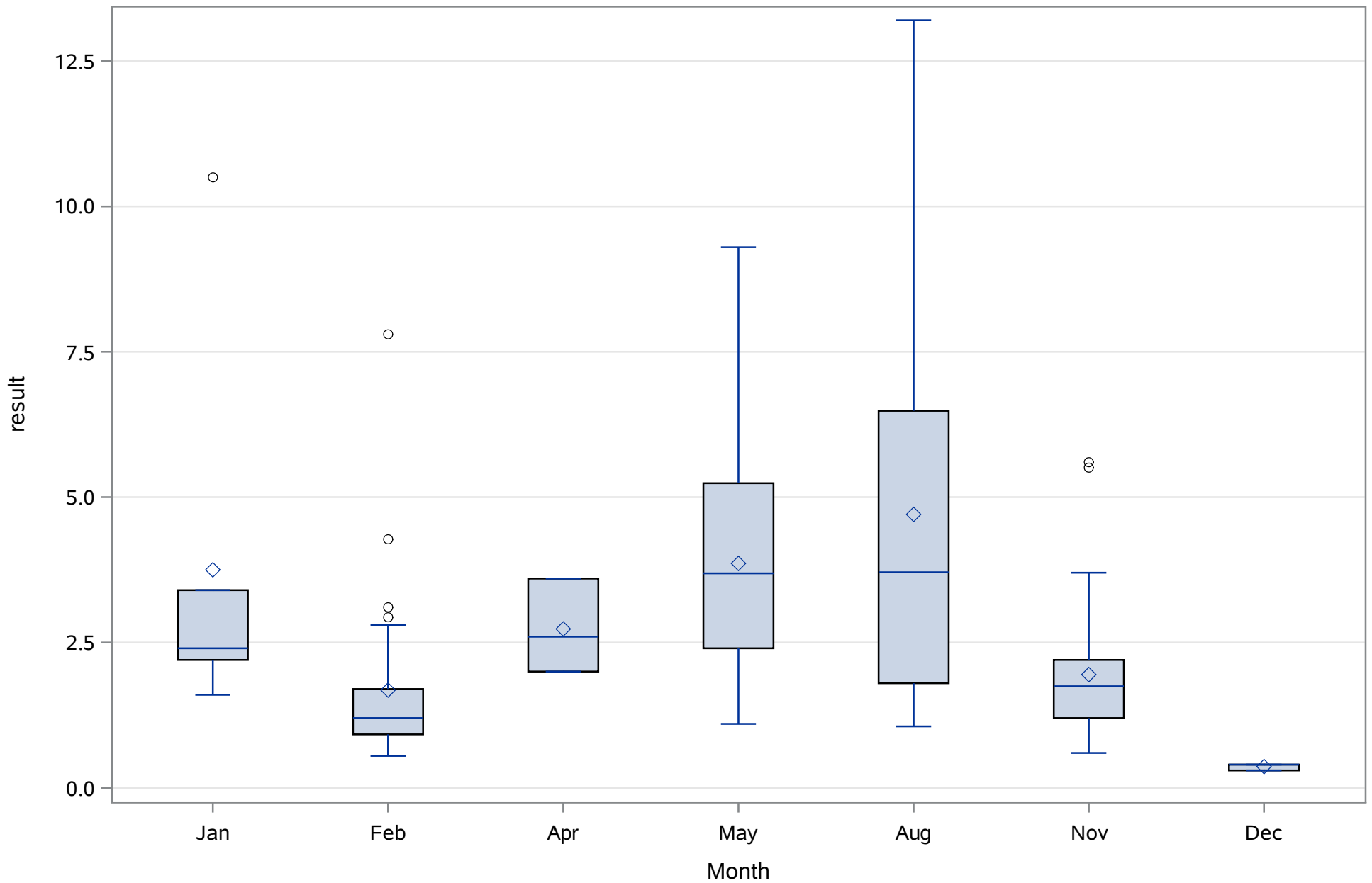
Source: UF 5 Rivers Study
Transect 2
pH_Lab



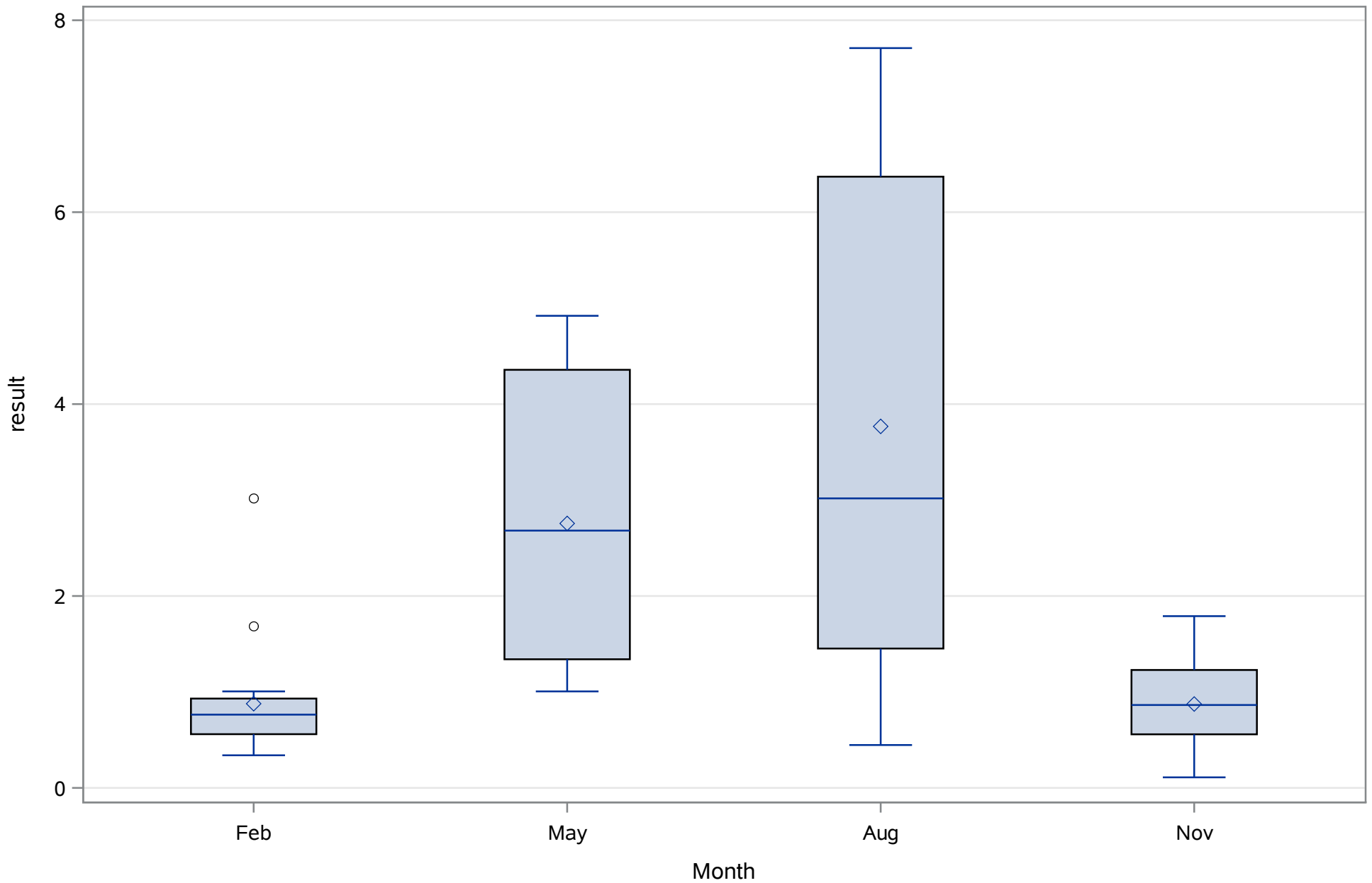
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
ALK_tot_mgL



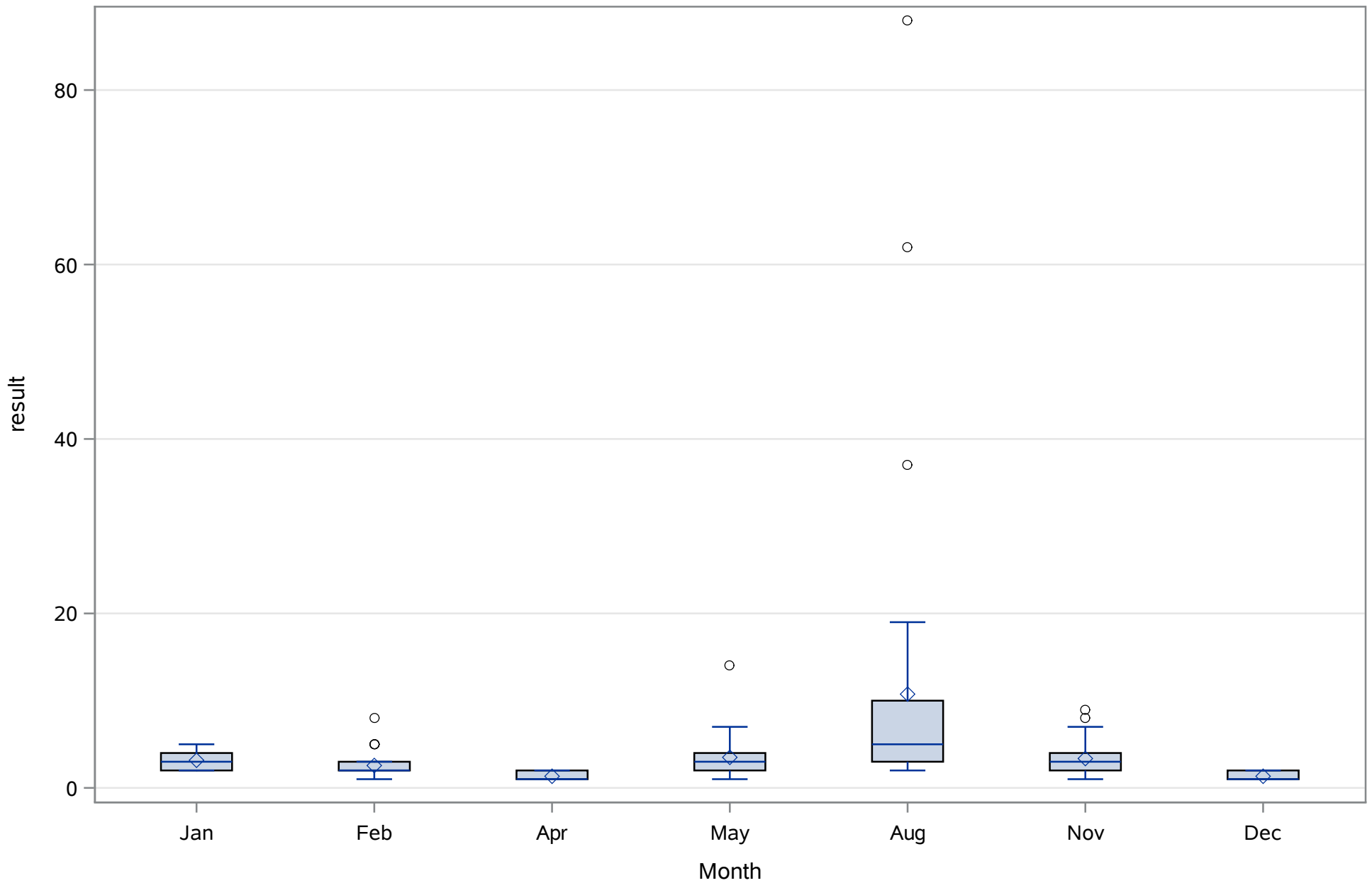
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_Uncor_ugL



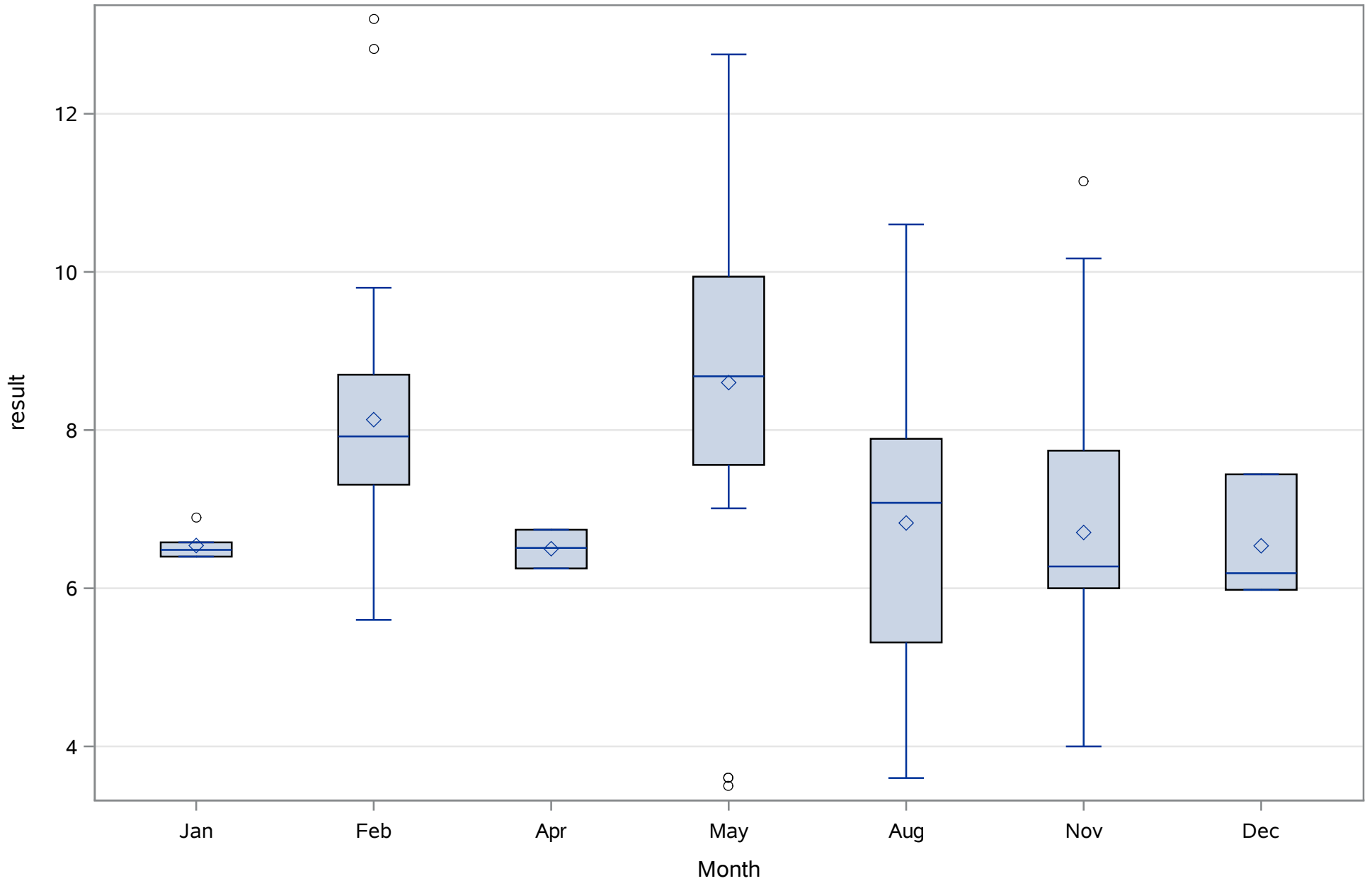
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
CHLA_cor_ugl



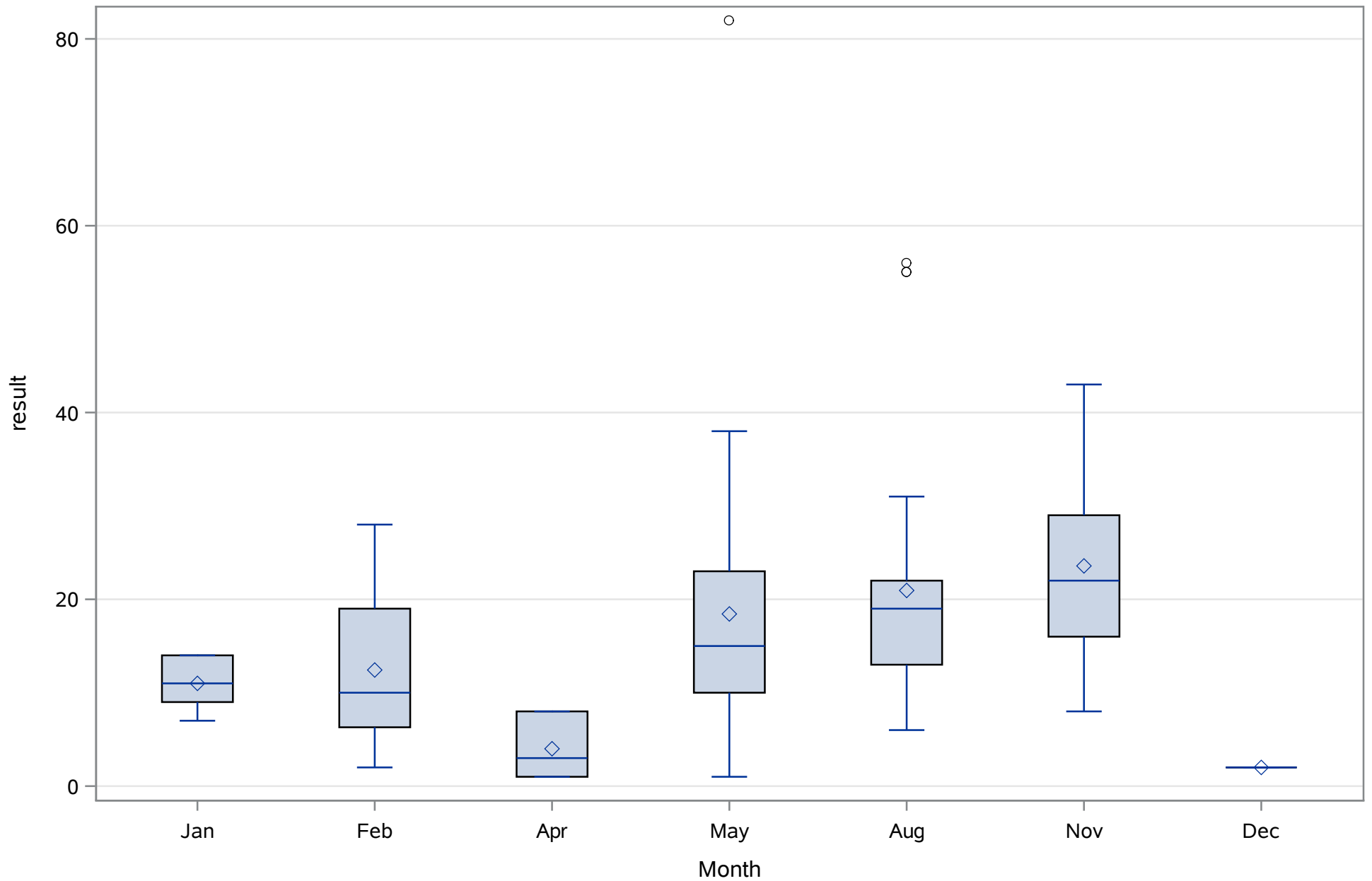
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
COLOR_PtCo



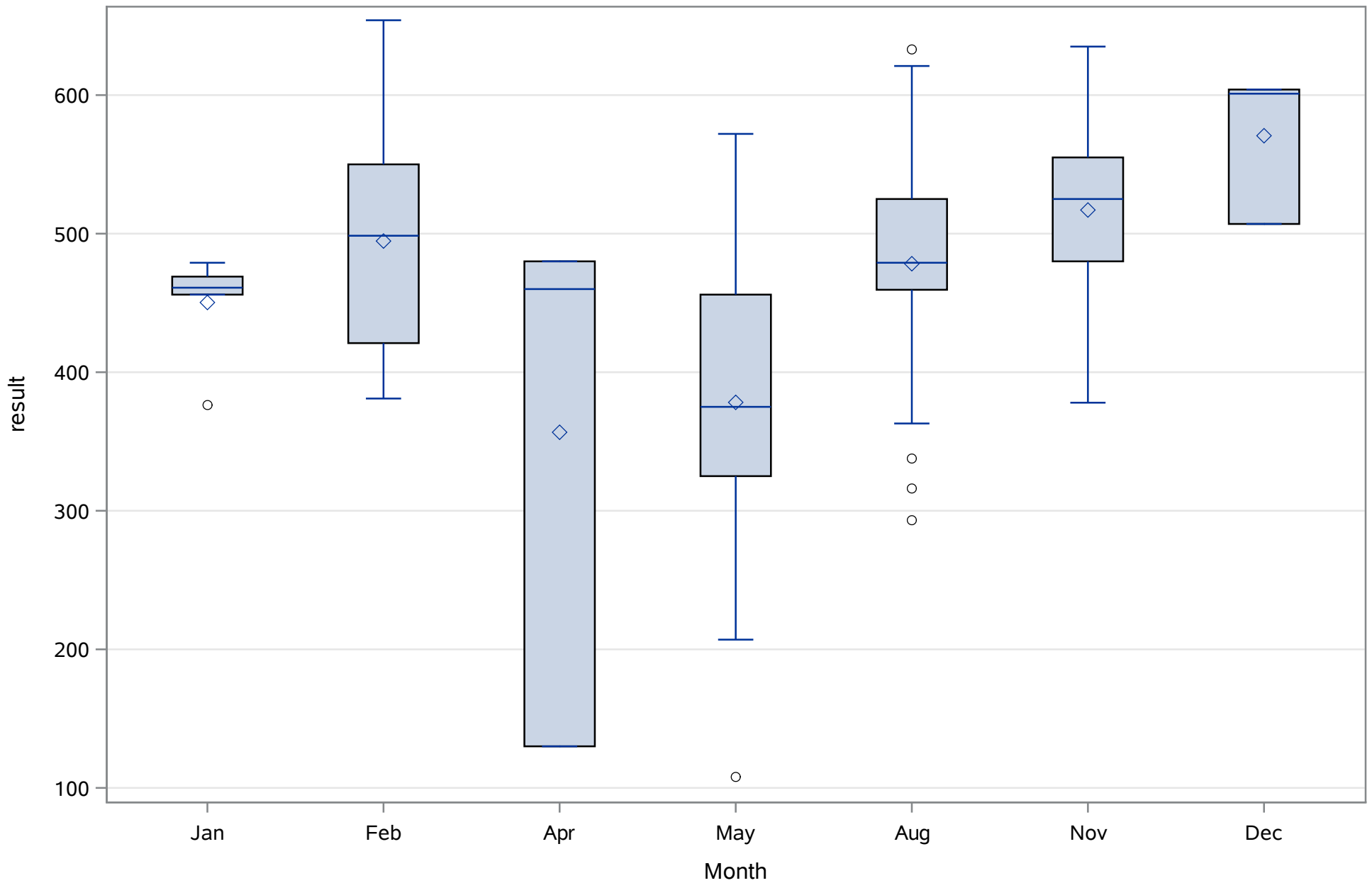
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
DO_mgL



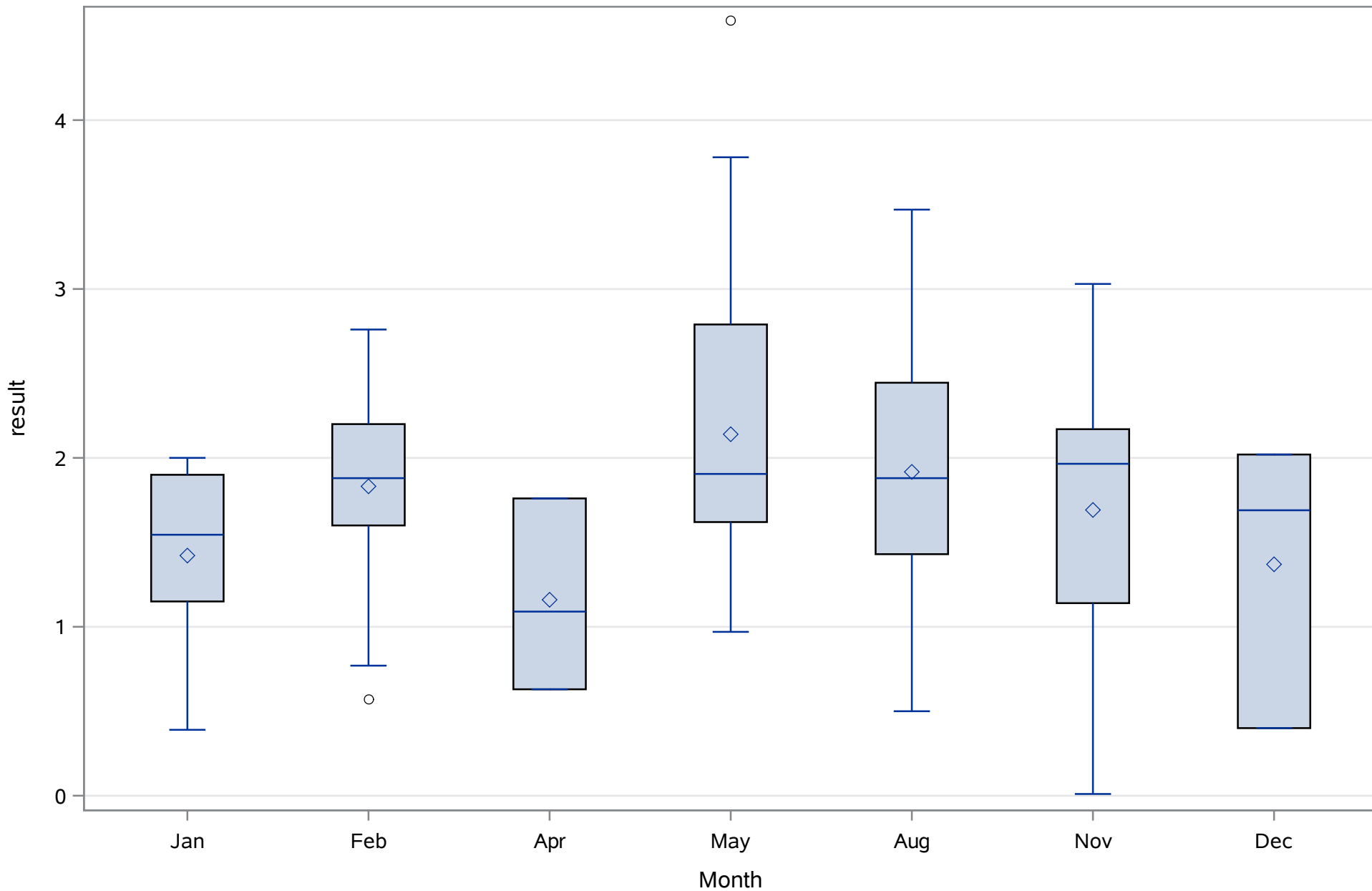
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NH4_ugl



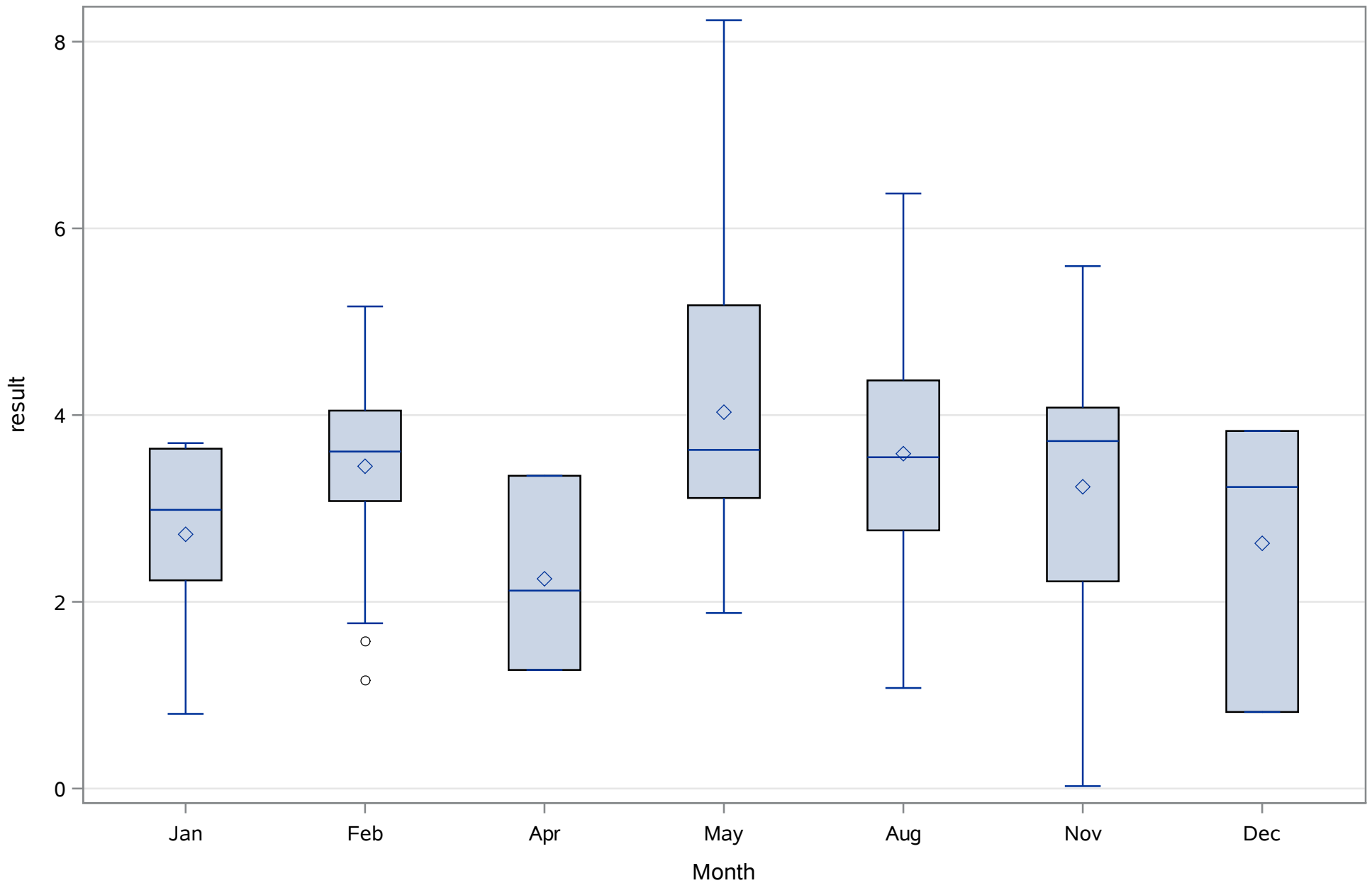
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
NO3_ugL



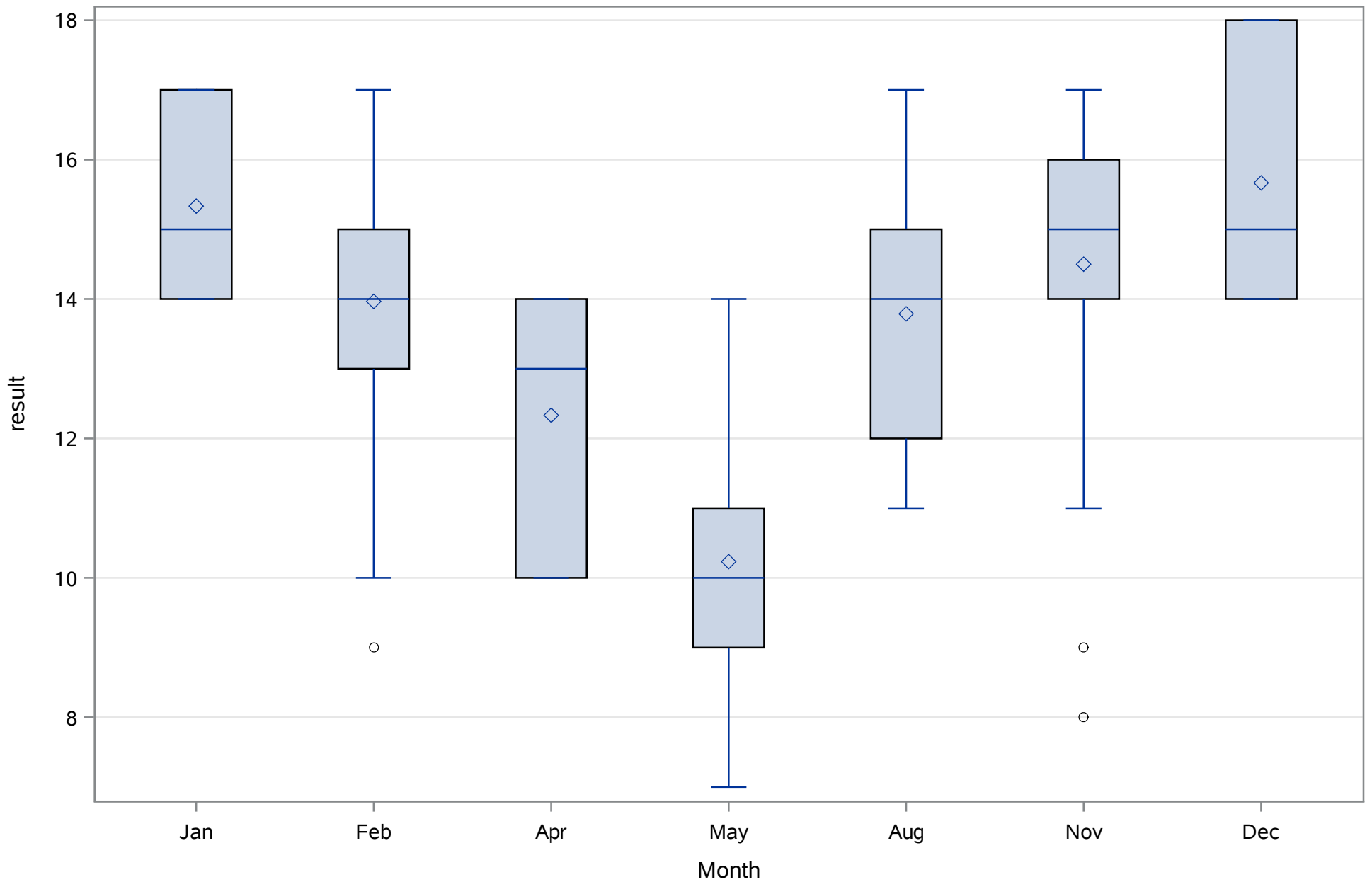
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SAL_Perc



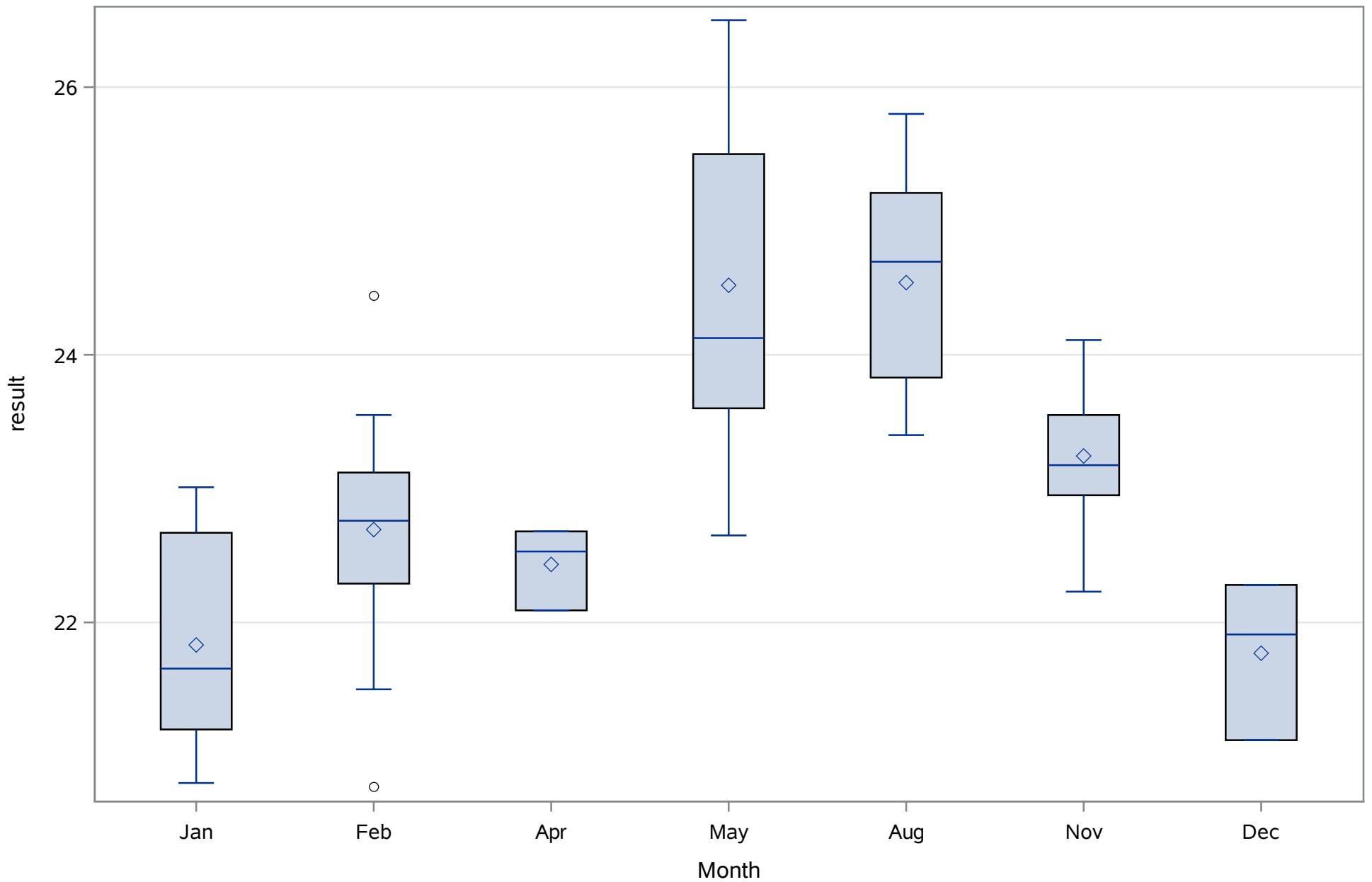
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SPCOND_mS_cm



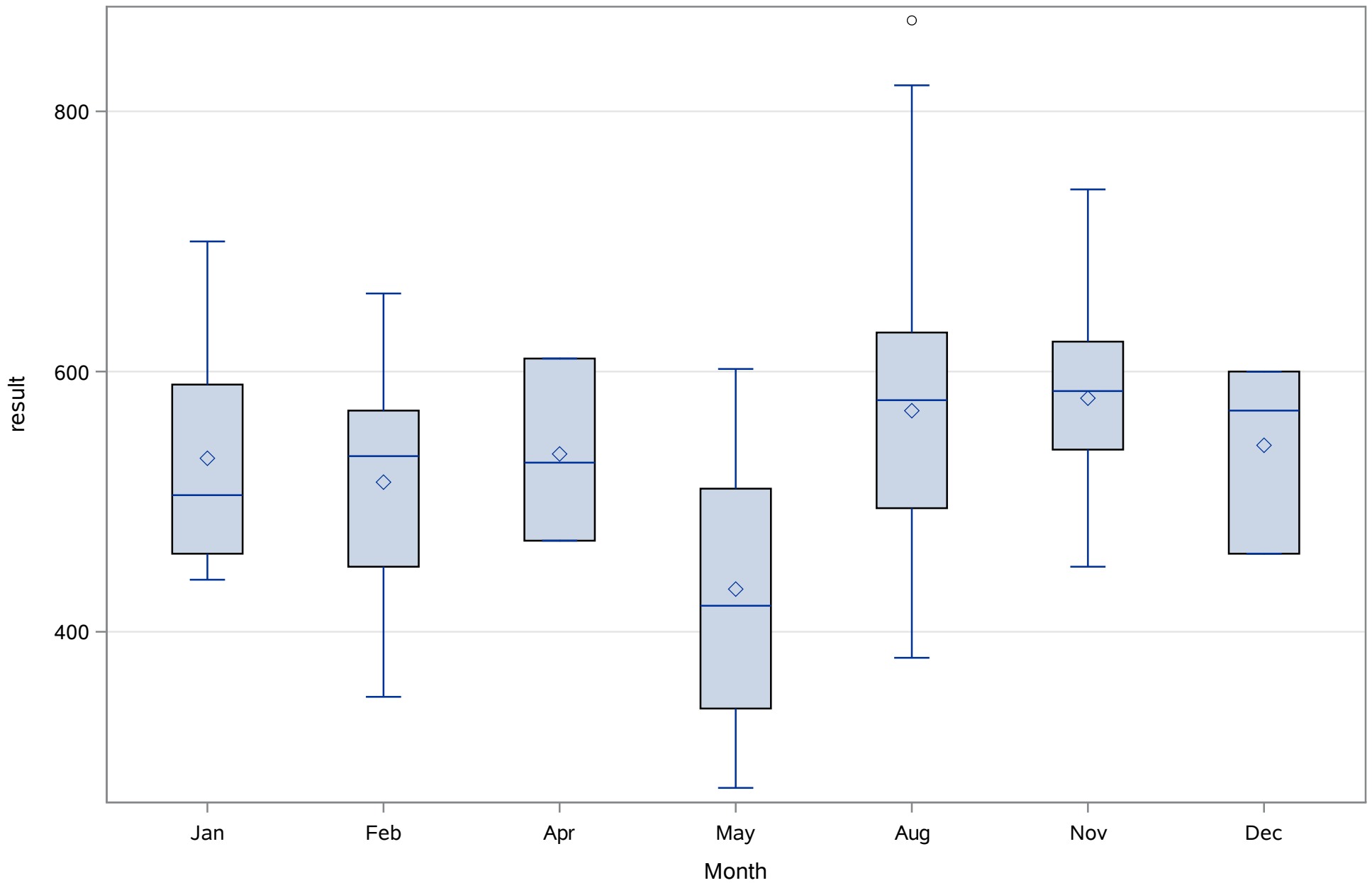
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
SRP_ugL



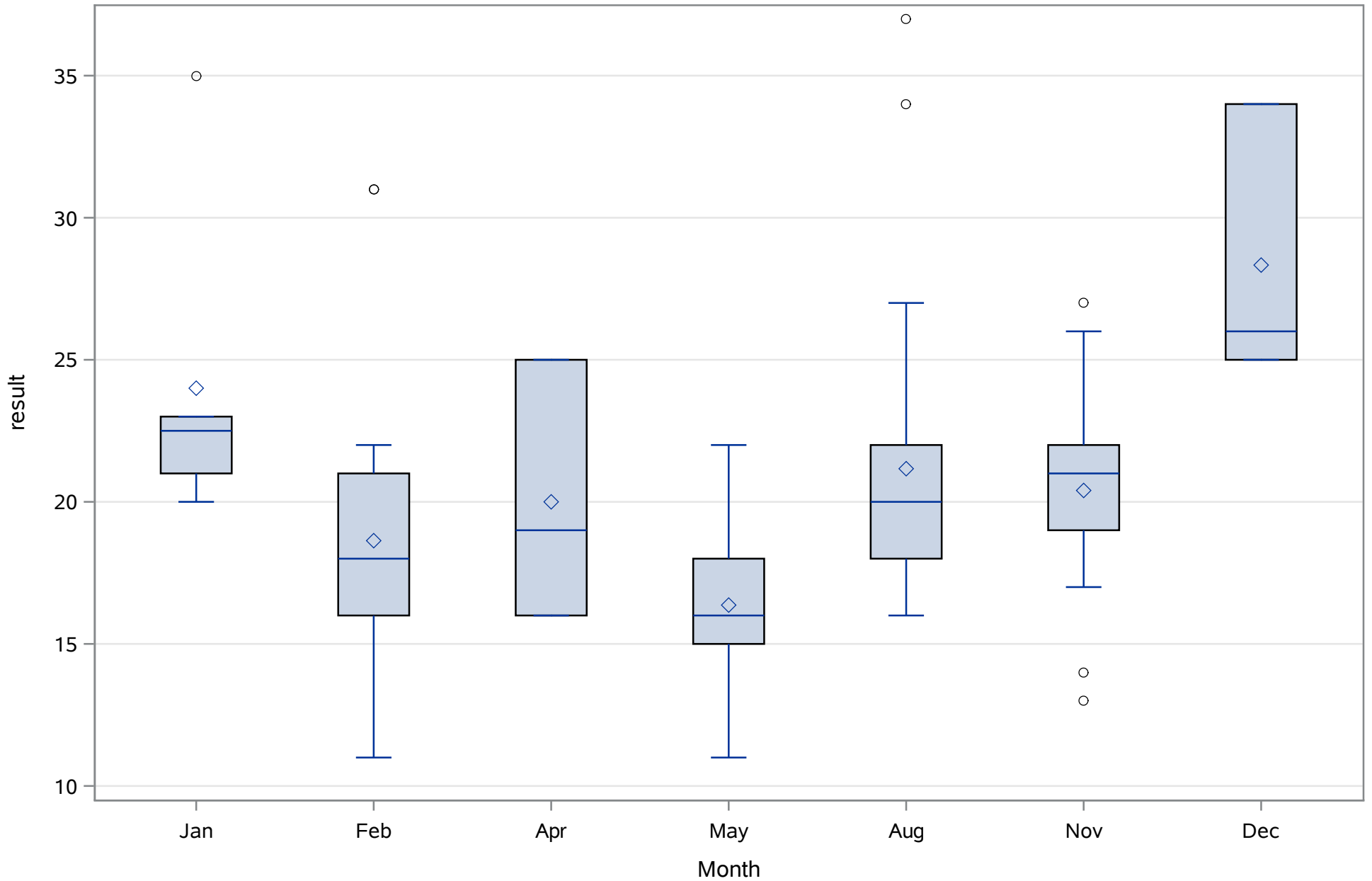
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TEMP_C



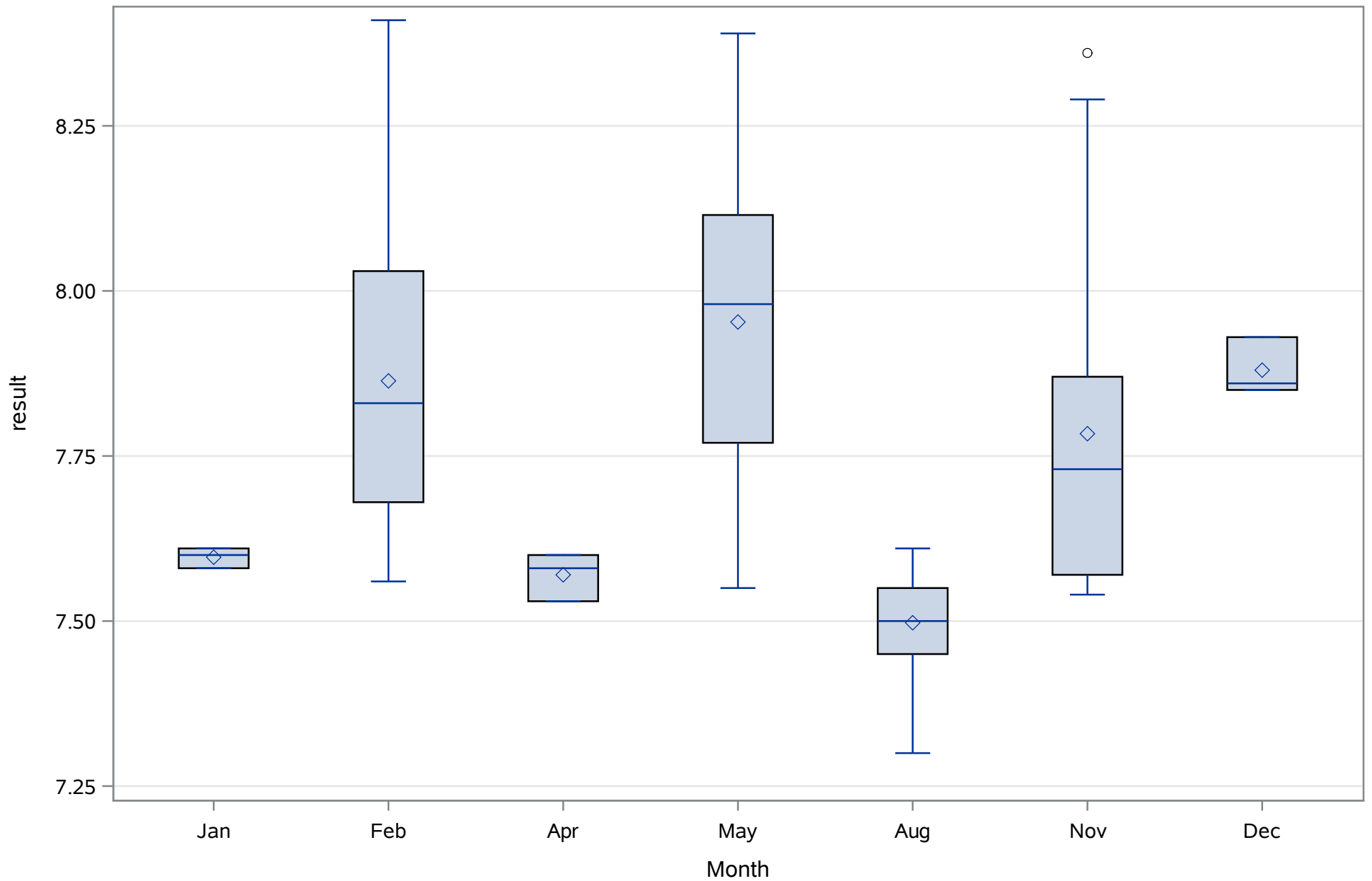
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TN_ugl



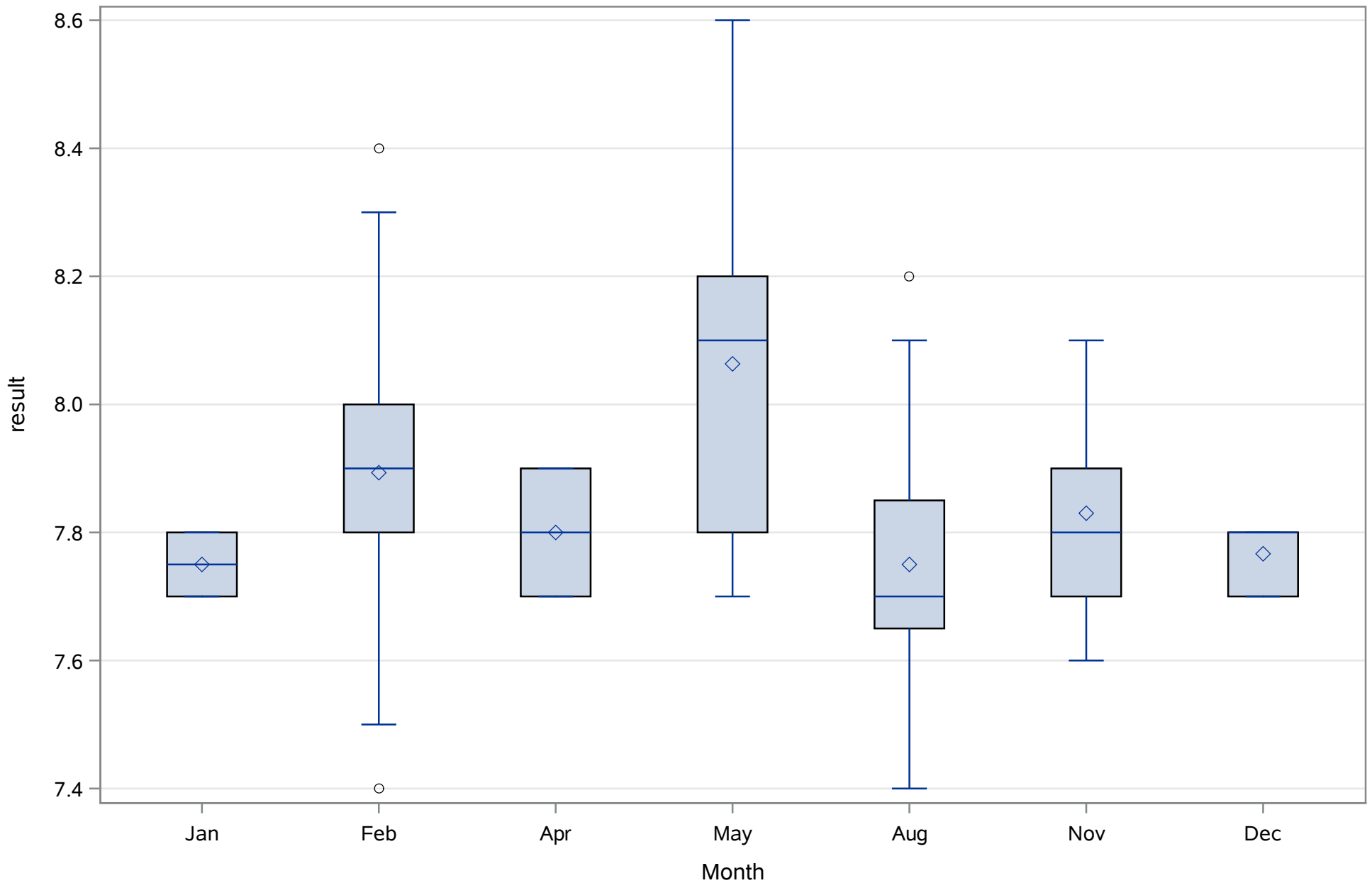
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 2
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	151.695652	Sum Observations	20934
Std Deviation	6.31023811	Variance	39.819105
Skewness	0.10024343	Kurtosis	-0.7906748
Uncorrected SS	3181052	Corrected SS	5455.21739
Coeff Variation	4.15980157	Std Error Mean	0.53716314

Basic Statistical Measures			
Location		Variability	
Mean	151.6957	Std Deviation	6.31024
Median	151.0000	Variance	39.81911
Mode	148.0000	Range	28.00000
		Interquartile Range	9.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	282.4015	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	164
99%	164
95%	163
90%	160
75% Q3	156
50% Median	151
25% Q1	147
10%	144
5%	142
1%	140
0% Min	136

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
ALK_tot_mgL

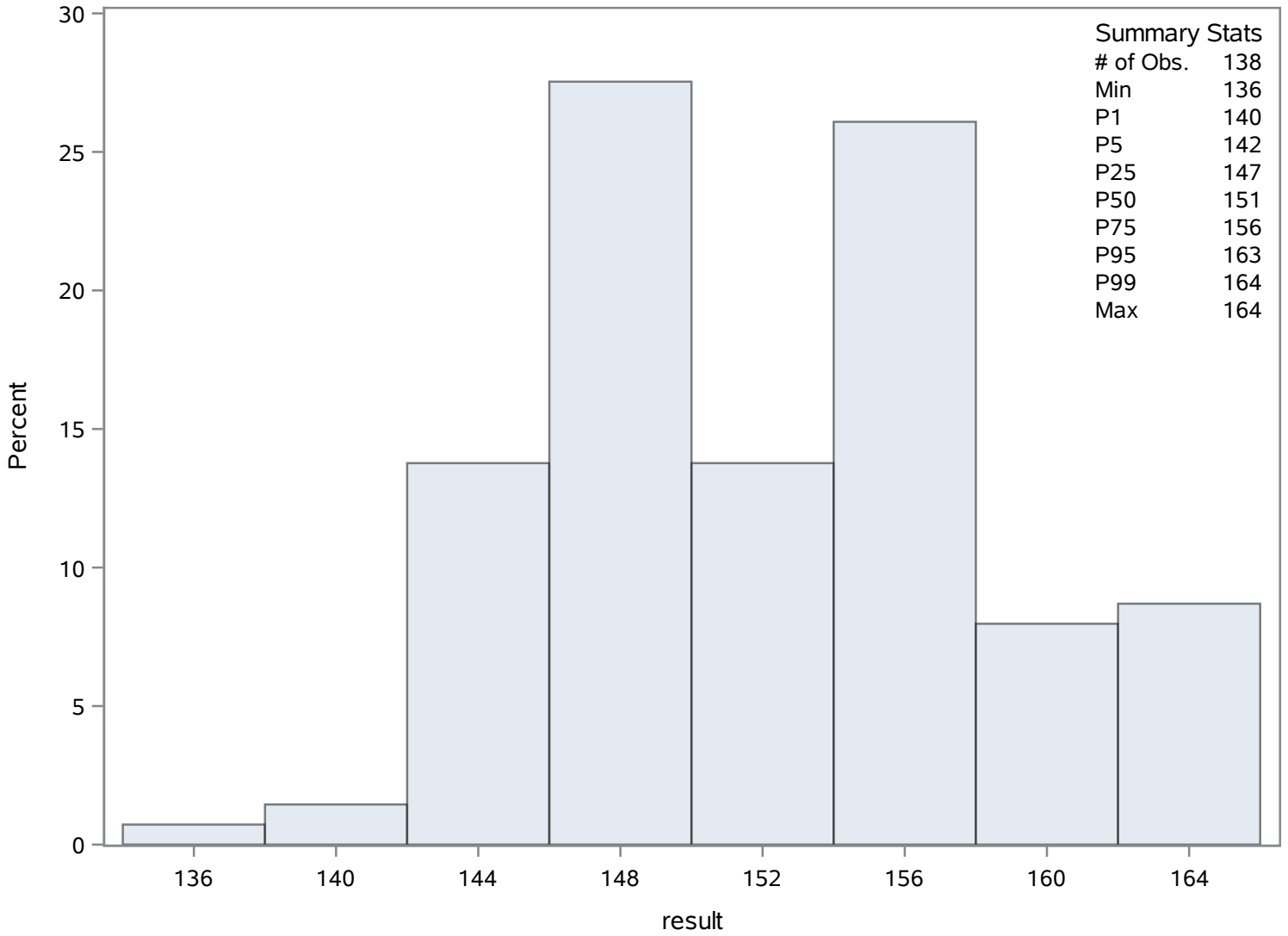
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
136	34	163	128
140	24	163	129
141	44	164	112
142	9	164	113
142	8	164	114

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	3.60087873	Sum Observations	496.921264
Std Deviation	2.85530031	Variance	8.15273988
Skewness	1.91159671	Kurtosis	4.53154044
Uncorrected SS	2906.27857	Corrected SS	1116.92536
Coeff Variation	79.2945425	Std Error Mean	0.2430593

Basic Statistical Measures			
Location		Variability	
Mean	3.600879	Std Deviation	2.85530
Median	2.850000	Variance	8.15274
Mode	3.000000	Range	16.60000
		Interquartile Range	3.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.81482	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16.97
99%	13.66
95%	8.69
90%	7.31
75% Q3	4.80
50% Median	2.85
25% Q1	1.60
10%	1.15
5%	0.83
1%	0.60
0% Min	0.37

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_Uncor_uGL

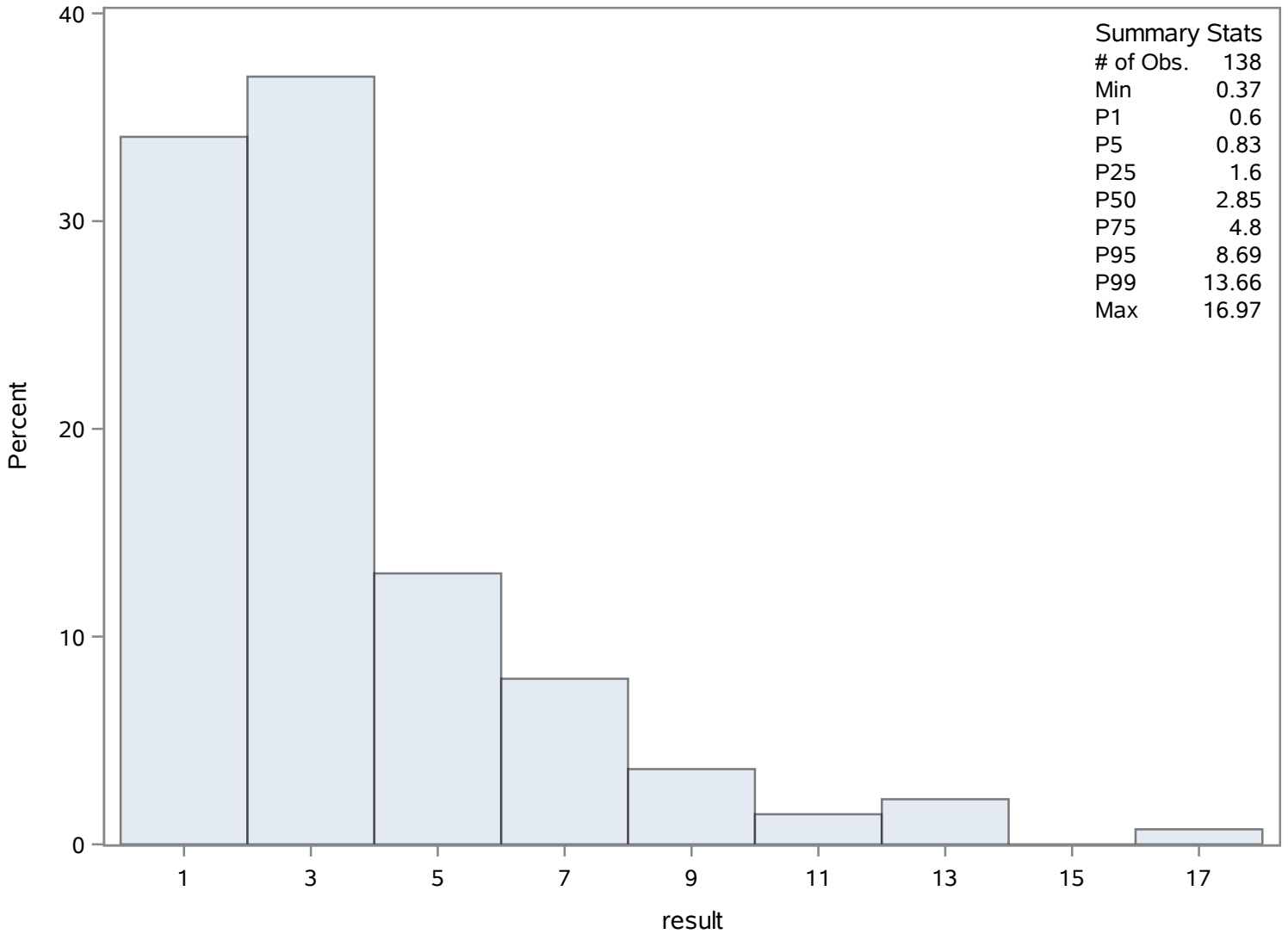
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.37	253	11.59	246
0.60	254	12.20	145
0.60	203	12.50	161
0.60	202	13.66	244
0.70	204	16.97	245

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	2.46792036	Sum Observations	177.690266
Std Deviation	2.45329457	Variance	6.01865425
Skewness	1.87686221	Kurtosis	4.04061744
Uncorrected SS	865.849878	Corrected SS	427.324452
Coeff Variation	99.4073638	Std Error Mean	0.28912354

Basic Statistical Measures			
Location		Variability	
Mean	2.467920	Std Deviation	2.45329
Median	1.396550	Variance	6.01865
Mode	0.670000	Range	12.07000
		Interquartile Range	2.87259

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.535868	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.290000
99%	12.290000
95%	6.370000
90%	5.590000
75% Q3	3.635000
50% Median	1.396550
25% Q1	0.762413
10%	0.670000
5%	0.450000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

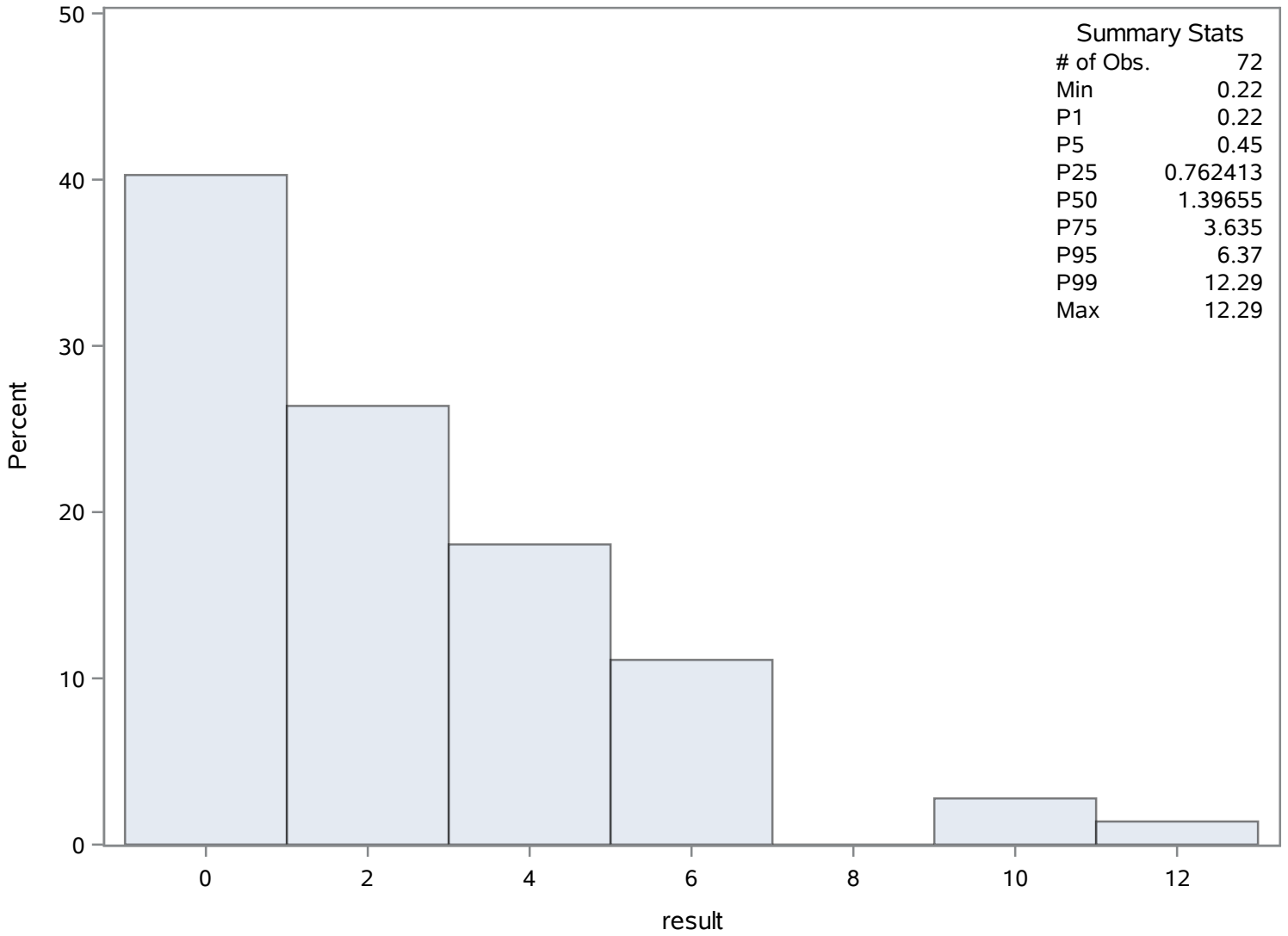
Quantiles (Definition 5)	
Level	Quantile
1%	0.220000
0% Min	0.220000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.22	327	6.14	333
0.22	325	6.37	330
0.34	326	9.05	318
0.45	336	10.61	316
0.56	338	12.29	317

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.7826087	Sum Observations	660
Std Deviation	5.94099838	Variance	35.2954618
Skewness	5.00956708	Kurtosis	28.7920939
Uncorrected SS	7992	Corrected SS	4835.47826
Coeff Variation	124.220875	Std Error Mean	0.50573137

Basic Statistical Measures			
Location		Variability	
Mean	4.782609	Std Deviation	5.94100
Median	3.000000	Variance	35.29546
Mode	2.000000	Range	45.00000
		Interquartile Range	3.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.456816	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	46
99%	38
95%	12
90%	9
75% Q3	5
50% Median	3
25% Q1	2
10%	2
5%	2
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
COLOR_PtCo

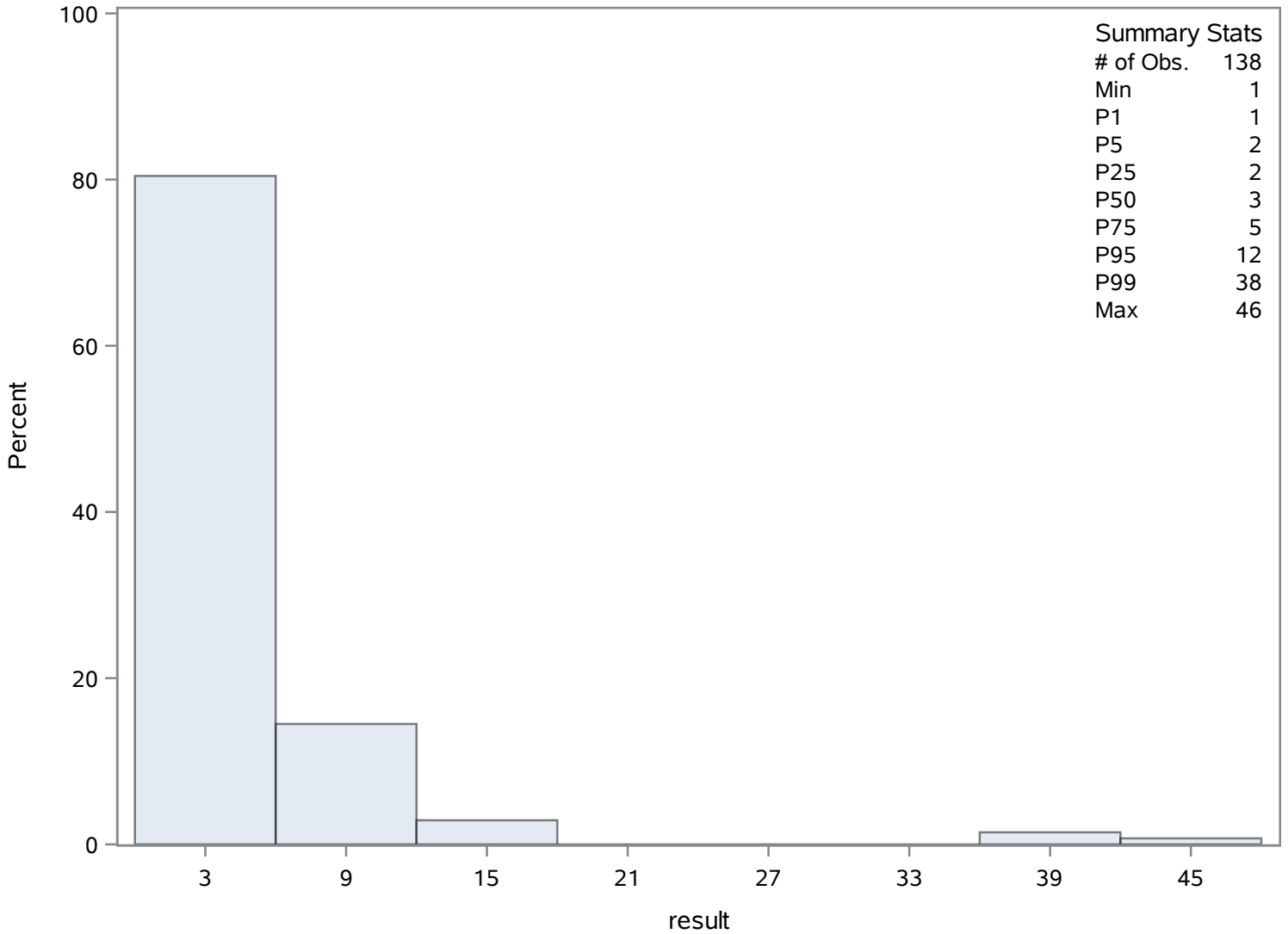
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	480	12	433
1	453	13	389
1	452	37	482
1	413	38	483
1	412	46	481

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8.0592029	Sum Observations	1112.17
Std Deviation	2.34617628	Variance	5.50454316
Skewness	0.48933002	Kurtosis	0.65011055
Uncorrected SS	9717.3261	Corrected SS	754.122412
Coeff Variation	29.1117659	Std Error Mean	0.19971979

Basic Statistical Measures			
Location		Variability	
Mean	8.059203	Std Deviation	2.34618
Median	7.720000	Variance	5.50454
Mode	7.300000	Range	11.59000
		Interquartile Range	2.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	40.35255	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.99
99%	14.89
95%	12.61
90%	11.05
75% Q3	9.20
50% Median	7.72
25% Q1	6.70
10%	4.79
5%	4.10
1%	3.50
0% Min	3.40

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
DO_mgL

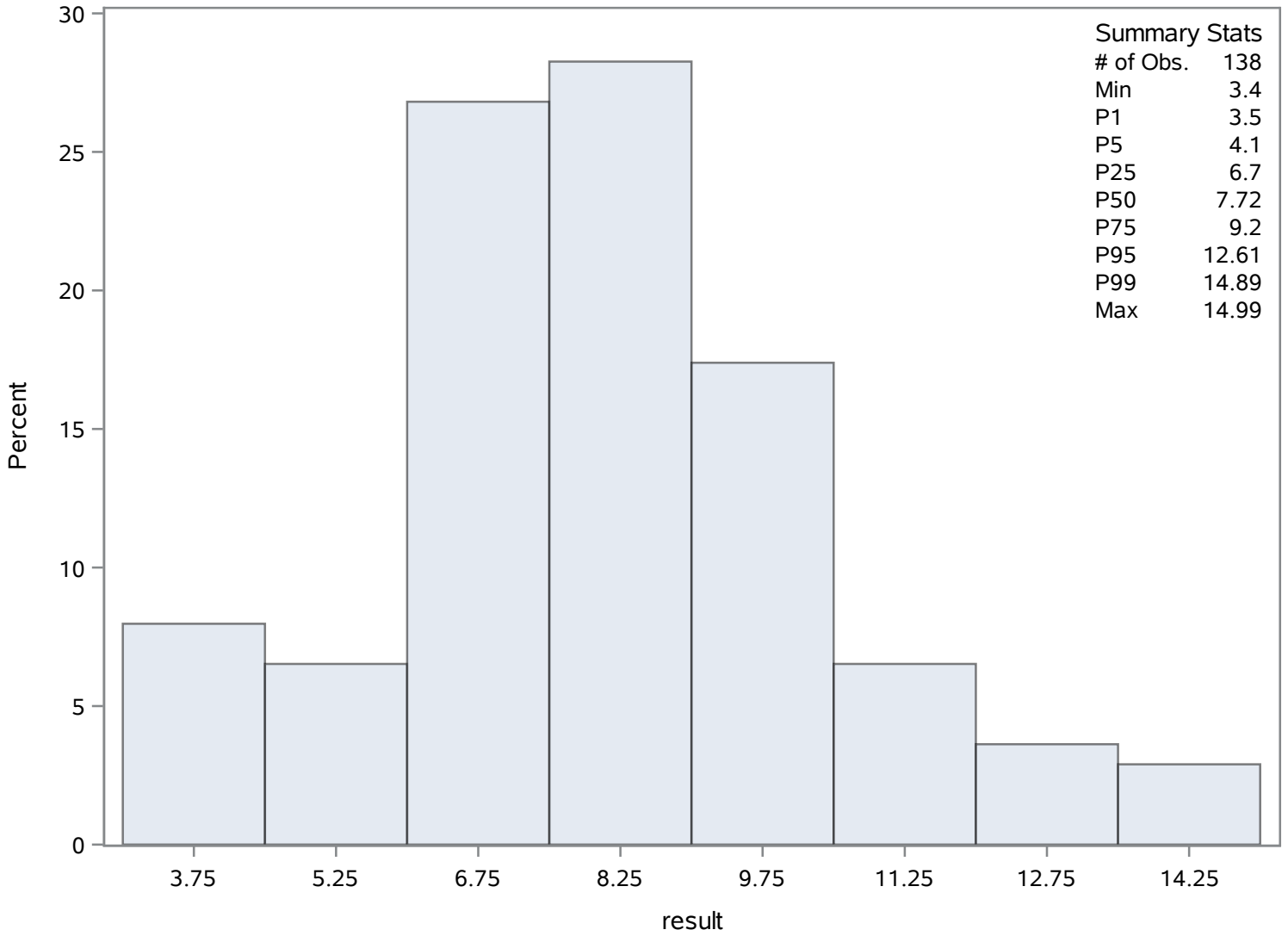
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.4	511	13.10	487
3.5	498	13.80	493
3.6	496	14.30	510
3.7	513	14.89	580
3.7	512	14.99	581

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	21.6189781	Sum Observations	2961.8
Std Deviation	13.6746359	Variance	186.995667
Skewness	1.23524994	Kurtosis	1.86618833
Uncorrected SS	89462.5	Corrected SS	25431.4107
Coeff Variation	63.2529244	Std Error Mean	1.16830299

Basic Statistical Measures			
Location		Variability	
Mean	21.61898	Std Deviation	13.67464
Median	20.00000	Variance	186.99567
Mode	22.00000	Range	65.00000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.5046	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	66
99%	65
95%	53
90%	39
75% Q3	26
50% Median	20
25% Q1	13
10%	6
5%	3
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NH4_ugl

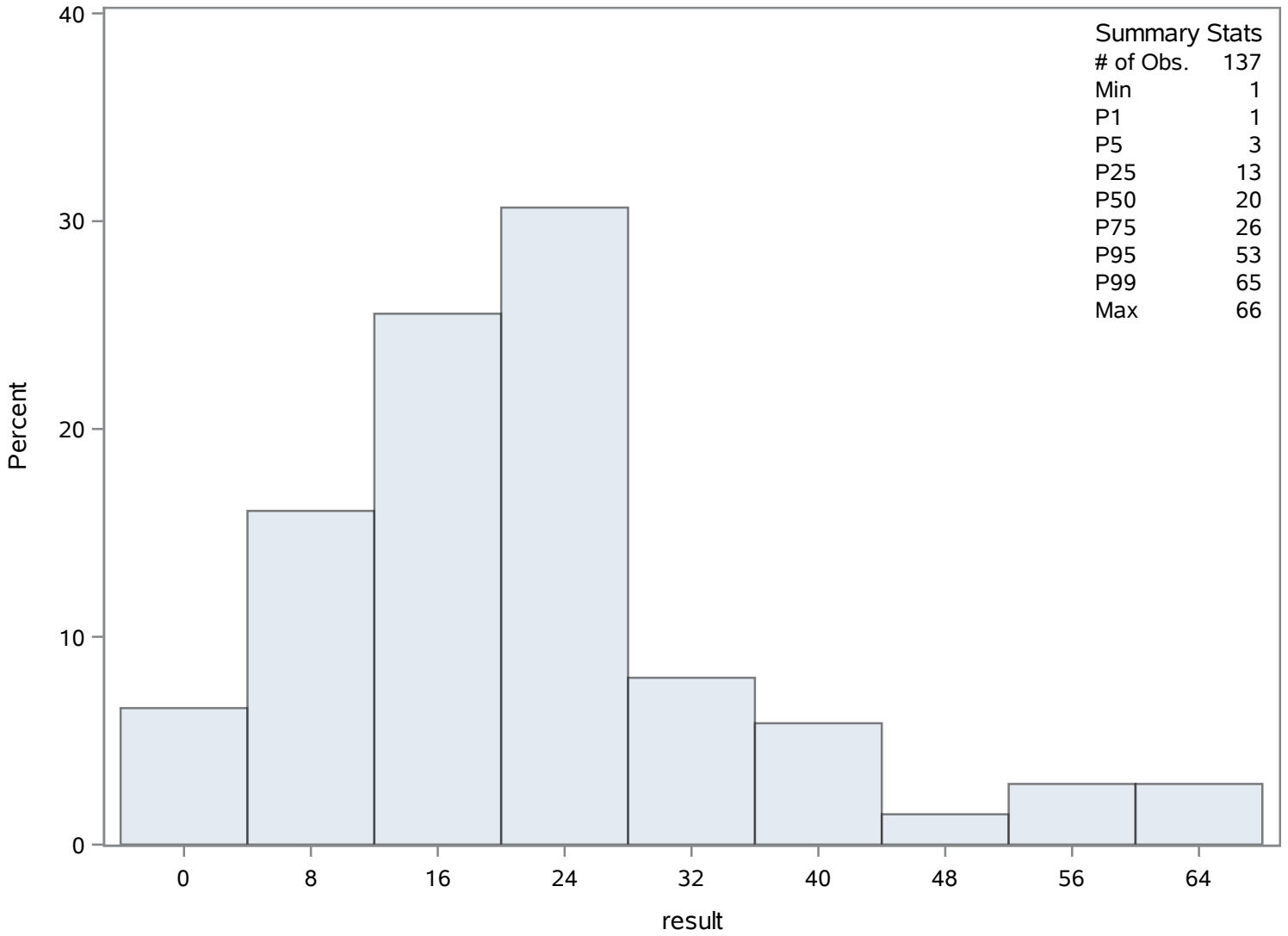
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	707	59	715
1	686	62	661
1	684	64	688
2	687	65	660
2	635	66	657

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	435.668841	Sum Observations	60122.3
Std Deviation	101.000439	Variance	10201.0886
Skewness	-0.7930656	Kurtosis	0.4402001
Uncorrected SS	27590961.9	Corrected SS	1397549.14
Coeff Variation	23.1828465	Std Error Mean	8.59772829

Basic Statistical Measures			
Location		Variability	
Mean	435.6688	Std Deviation	101.00044
Median	455.0000	Variance	10201
Mode	440.0000	Range	493.00000
		Interquartile Range	133.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	50.67255	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	610
99%	602
95%	573
90%	548
75% Q3	510
50% Median	455
25% Q1	377
10%	300
5%	256
1%	129
0% Min	117

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NO3_ugL

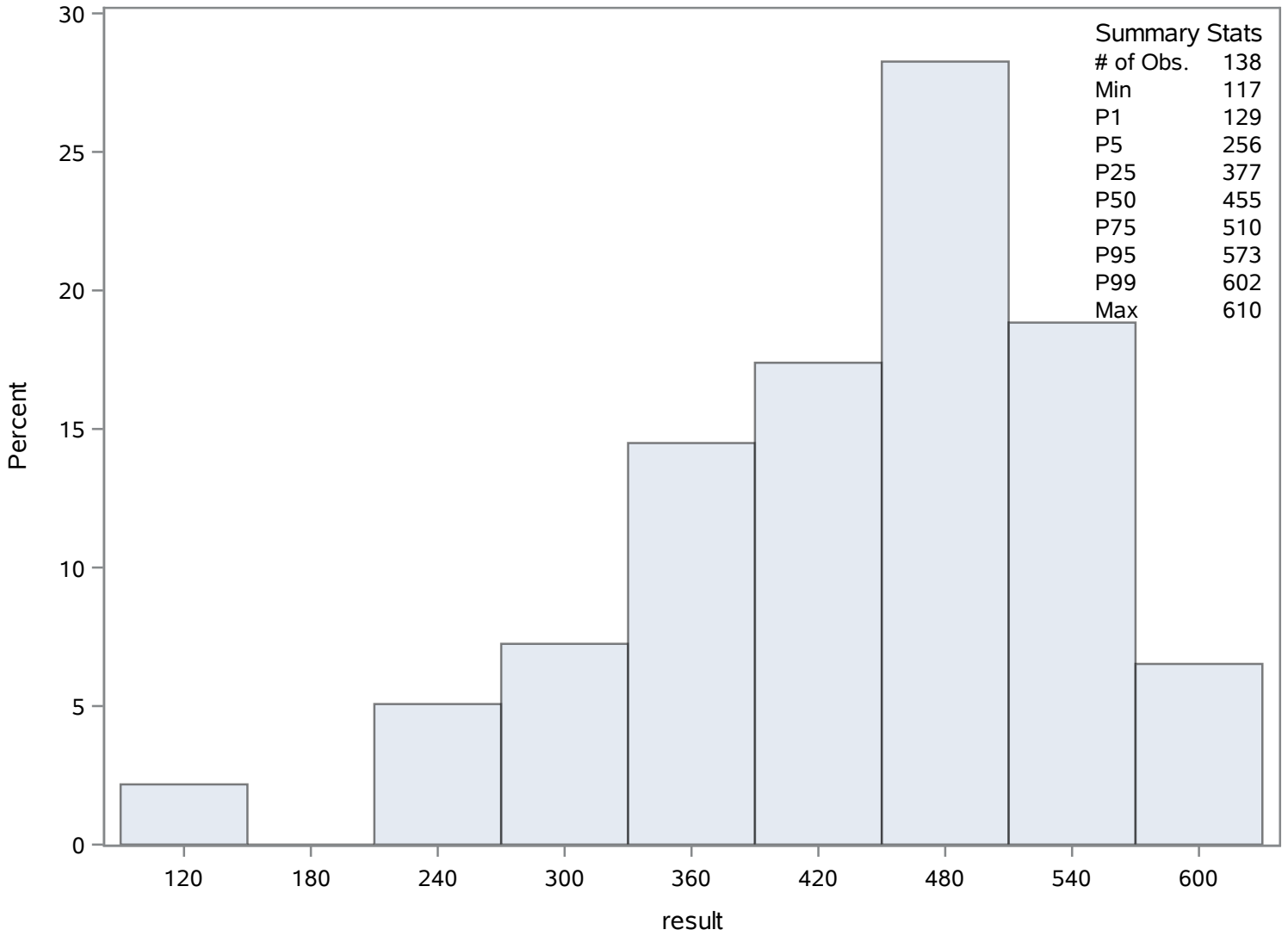
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
117	784	575	875
129	783	587	888
138	785	591	871
228	845	602	866
233	843	610	870

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	1.8273913	Sum Observations	252.18
Std Deviation	0.61163572	Variance	0.37409825
Skewness	0.17915177	Kurtosis	0.10506733
Uncorrected SS	512.083	Corrected SS	51.2514609
Coeff Variation	33.4704296	Std Error Mean	0.05206589

Basic Statistical Measures			
Location		Variability	
Mean	1.827391	Std Deviation	0.61164
Median	1.845000	Variance	0.37410
Mode	1.700000	Range	2.92000
		Interquartile Range	0.80000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	35.09767	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.400
99%	3.330
95%	3.080
90%	2.540
75% Q3	2.200
50% Median	1.845
25% Q1	1.400
10%	1.000
5%	0.830

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SAL_Perc

The UNIVARIATE Procedure
Variable: result

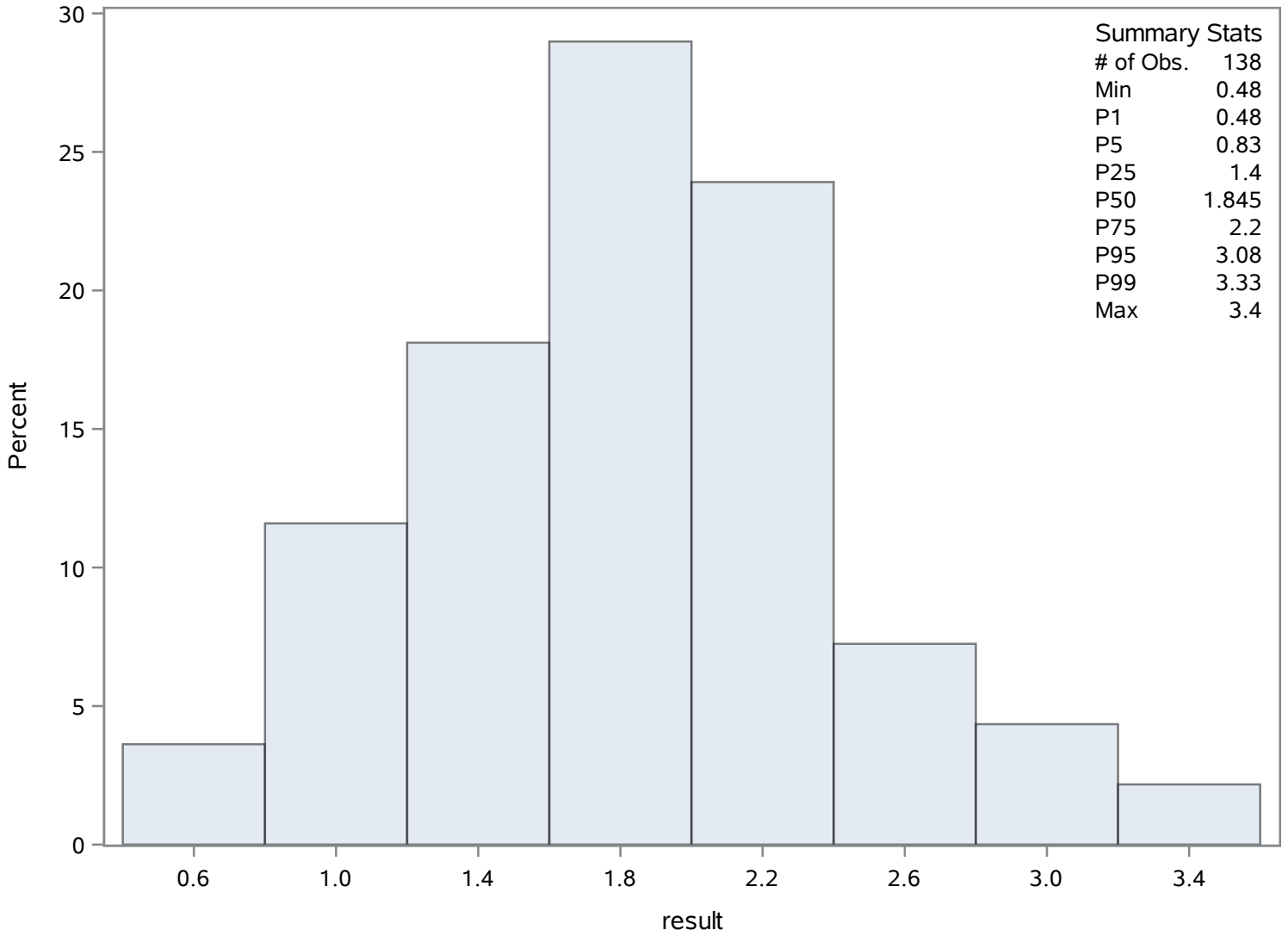
Quantiles (Definition 5)	
Level	Quantile
1%	0.480
0% Min	0.480

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.48	965	3.12	982
0.48	956	3.19	983
0.50	953	3.28	984
0.53	944	3.33	1006
0.78	968	3.40	1005

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	3.46305797	Sum Observations	477.902
Std Deviation	1.10525287	Variance	1.22158391
Skewness	0.12058399	Kurtosis	0.101868
Uncorrected SS	1822.35933	Corrected SS	167.356996
Coeff Variation	31.9155175	Std Error Mean	0.09408537

Basic Statistical Measures			
Location		Variability	
Mean	3.463058	Std Deviation	1.10525
Median	3.486000	Variance	1.22158
Mode	0.970000	Range	5.26400
		Interquartile Range	1.41000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	36.80761	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.234
99%	6.146
95%	5.753
90%	4.748
75% Q3	4.140
50% Median	3.486
25% Q1	2.730
10%	1.956
5%	1.640

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

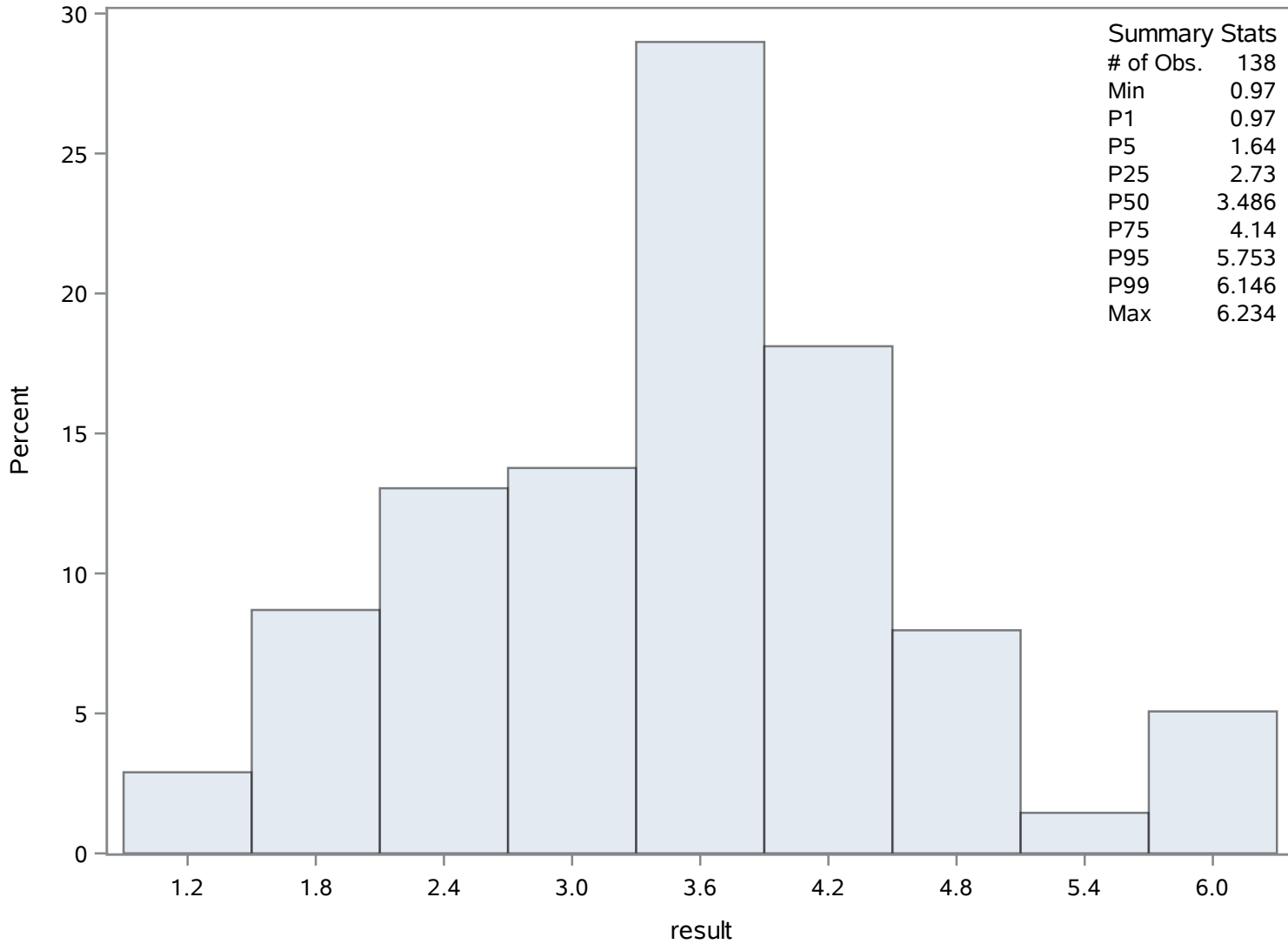
Quantiles (Definition 5)	
Level	Quantile
1%	0.970
0% Min	0.970

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.970	1103	5.811	1124
0.970	1094	5.880	1121
1.020	1091	6.102	1144
1.070	1082	6.146	1122
1.556	1106	6.234	1143

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	12.3185185	Sum Observations	1663
Std Deviation	2.94388273	Variance	8.66644555
Skewness	-0.4355736	Kurtosis	-0.4514832
Uncorrected SS	21647	Corrected SS	1161.3037
Coeff Variation	23.8980258	Std Error Mean	0.25336908

Basic Statistical Measures			
Location		Variability	
Mean	12.31852	Std Deviation	2.94388
Median	12.00000	Variance	8.66645
Mode	12.00000	Range	14.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	48.61887	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18
99%	17
95%	17
90%	16
75% Q3	15
50% Median	12
25% Q1	10
10%	8
5%	7
1%	6
0% Min	4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SRP_ugL

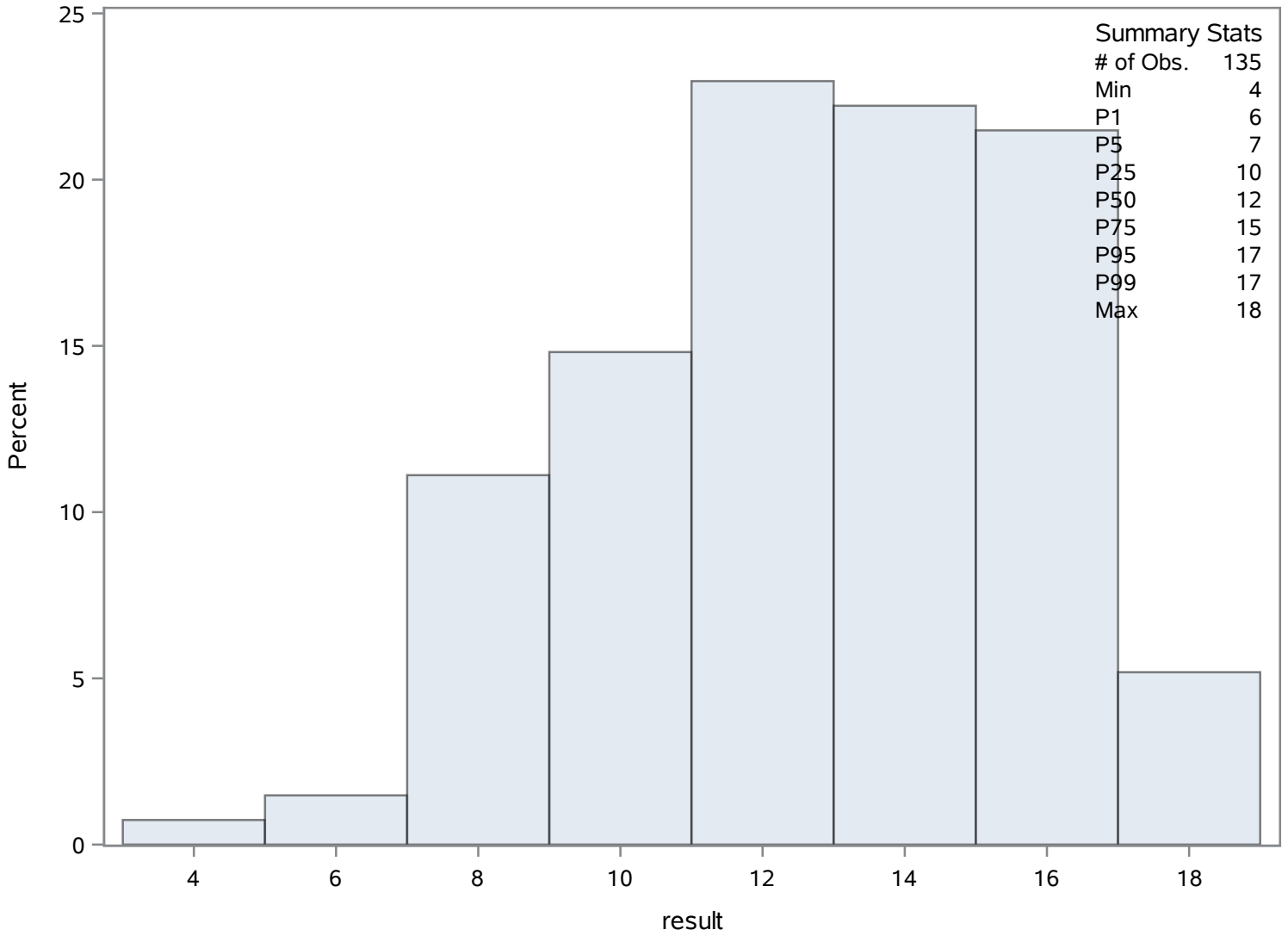
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	1188	17	1237
6	1254	17	1298
6	1195	17	1301
7	1268	17	1307
7	1267	18	1238

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.6534783	Sum Observations	3264.18
Std Deviation	1.37639784	Variance	1.89447103
Skewness	0.15592016	Kurtosis	-0.5112845
Uncorrected SS	77468.7532	Corrected SS	259.54253
Coeff Variation	5.81900822	Std Error Mean	0.11716677

Basic Statistical Measures			
Location		Variability	
Mean	23.65348	Std Deviation	1.37640
Median	23.55000	Variance	1.89447
Mode	23.40000	Range	6.30000
		Interquartile Range	2.04000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	201.8787	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.70
99%	26.50
95%	26.10
90%	25.58
75% Q3	24.74
50% Median	23.55
25% Q1	22.70
10%	21.89
5%	21.50

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TEMP_C

The UNIVARIATE Procedure
Variable: result

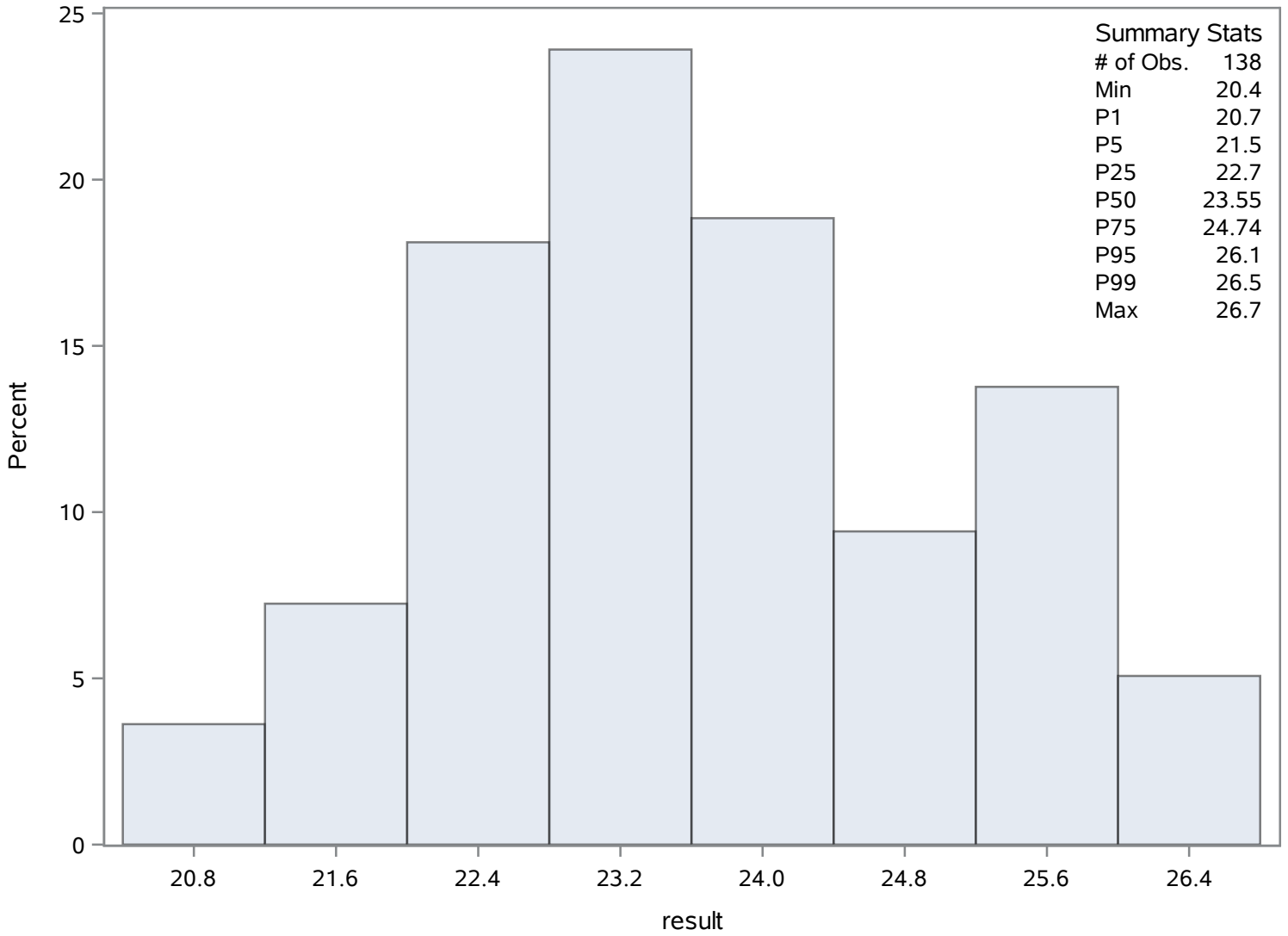
Quantiles (Definition 5)	
Level	Quantile
1%	20.70
0% Min	20.40

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.40	1338	26.25	1404
20.70	1340	26.28	1405
20.90	1339	26.30	1333
21.01	1376	26.50	1334
21.10	1317	26.70	1332

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	512.492754	Sum Observations	70724
Std Deviation	103.176997	Variance	10645.4926
Skewness	-0.2445968	Kurtosis	-0.0442719
Uncorrected SS	37703970	Corrected SS	1458432.49
Coeff Variation	20.1323816	Std Error Mean	8.78300923

Basic Statistical Measures			
Location		Variability	
Mean	512.4928	Std Deviation	103.17700
Median	530.0000	Variance	10645
Mode	540.0000	Range	540.00000
		Interquartile Range	132.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	58.35047	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	770
99%	750
95%	670
90%	640
75% Q3	582
50% Median	530
25% Q1	450
10%	360
5%	330
1%	250
0% Min	230

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TN_ugl

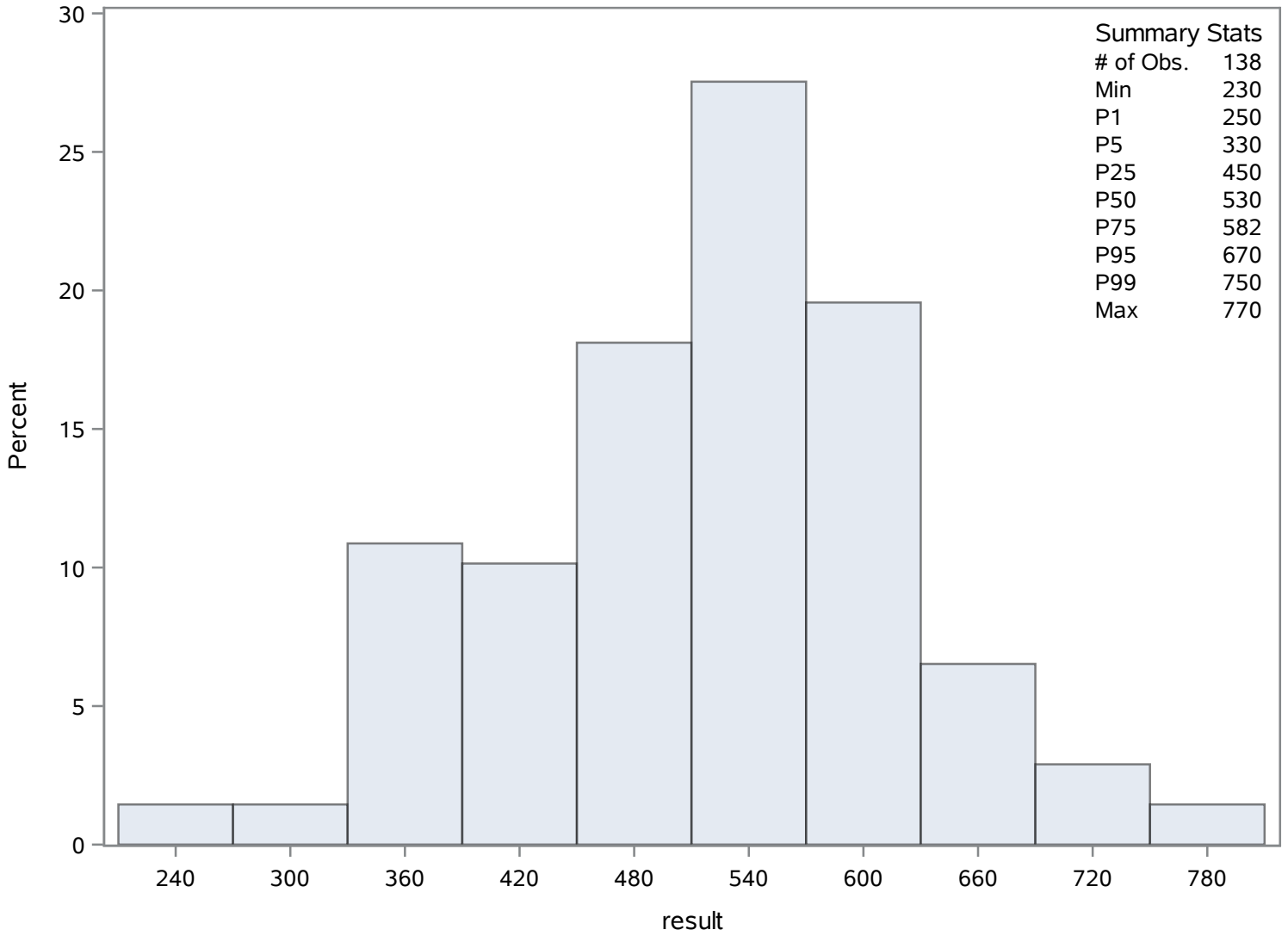
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
230	1472	700	1571
250	1458	700	1581
280	1471	720	1559
320	1459	750	1583
330	1496	770	1582

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	19.5362319	Sum Observations	2696
Std Deviation	4.24119426	Variance	17.9877288
Skewness	1.28331549	Kurtosis	3.40599095
Uncorrected SS	55134	Corrected SS	2464.31884
Coeff Variation	21.7093772	Std Error Mean	0.36103443

Basic Statistical Measures			
Location		Variability	
Mean	19.53623	Std Deviation	4.24119
Median	19.00000	Variance	17.98773
Mode	17.00000	Range	27.00000
		Interquartile Range	5.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	54.11182	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	39
99%	34
95%	27
90%	24
75% Q3	22
50% Median	19
25% Q1	17
10%	15
5%	14
1%	12
0% Min	12

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TP_ugl

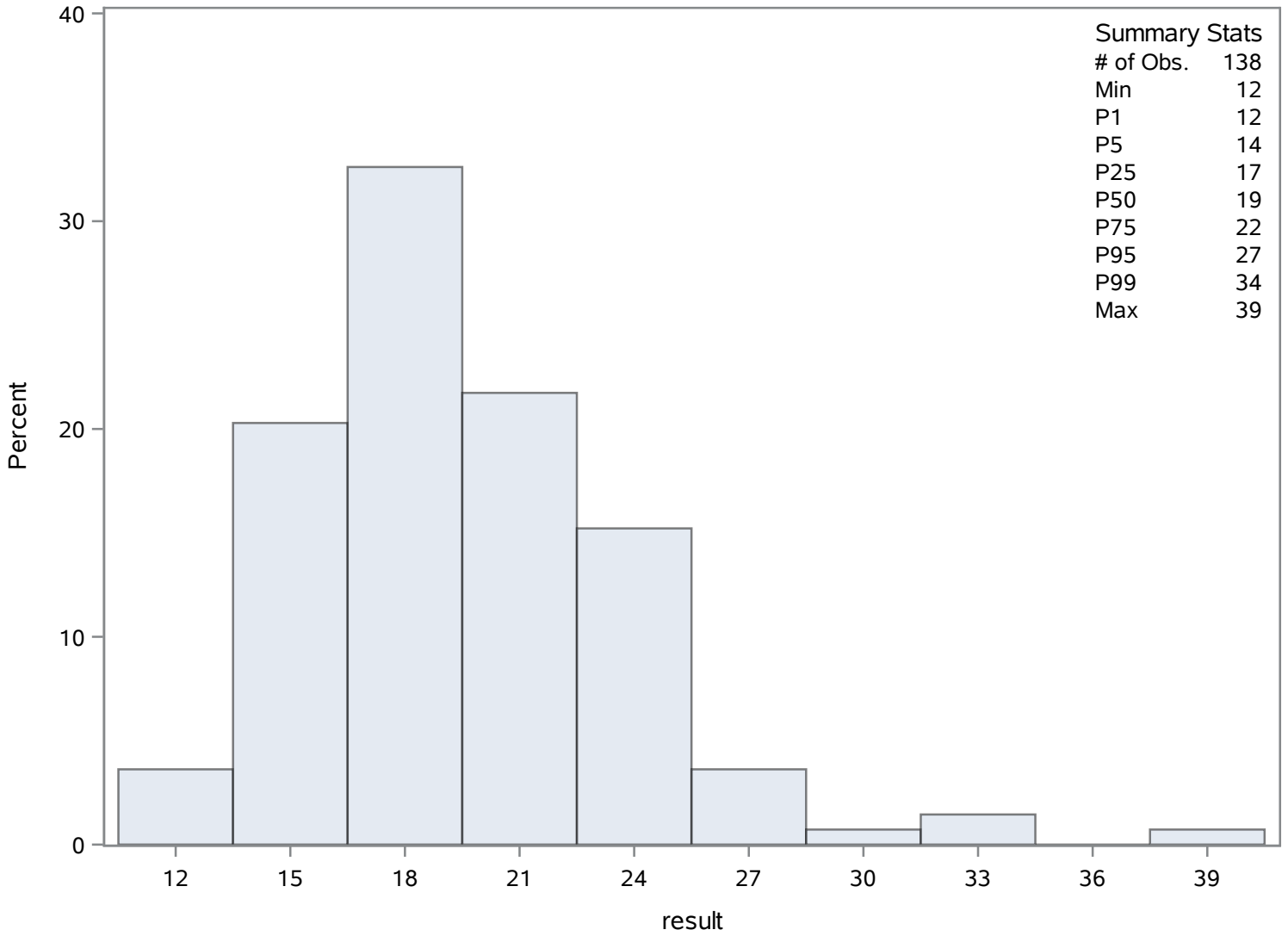
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12	1605	28	1697
12	1596	29	1650
13	1644	33	1664
13	1632	34	1651
13	1620	39	1652

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.82305556	Sum Observations	844.89
Std Deviation	0.25003349	Variance	0.06251674
Skewness	0.50714345	Kurtosis	-0.9231872
Uncorrected SS	6616.3107	Corrected SS	6.68929167
Coeff Variation	3.19611033	Std Error Mean	0.02405948

Basic Statistical Measures			
Location		Variability	
Mean	7.823056	Std Deviation	0.25003
Median	7.740000	Variance	0.06252
Mode	7.620000	Range	0.97000
		Interquartile Range	0.42000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	325.1548	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.42
99%	8.35
95%	8.27
90%	8.20
75% Q3	8.04
50% Median	7.74
25% Q1	7.62
10%	7.55
5%	7.50
1%	7.45
0% Min	7.45

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Field

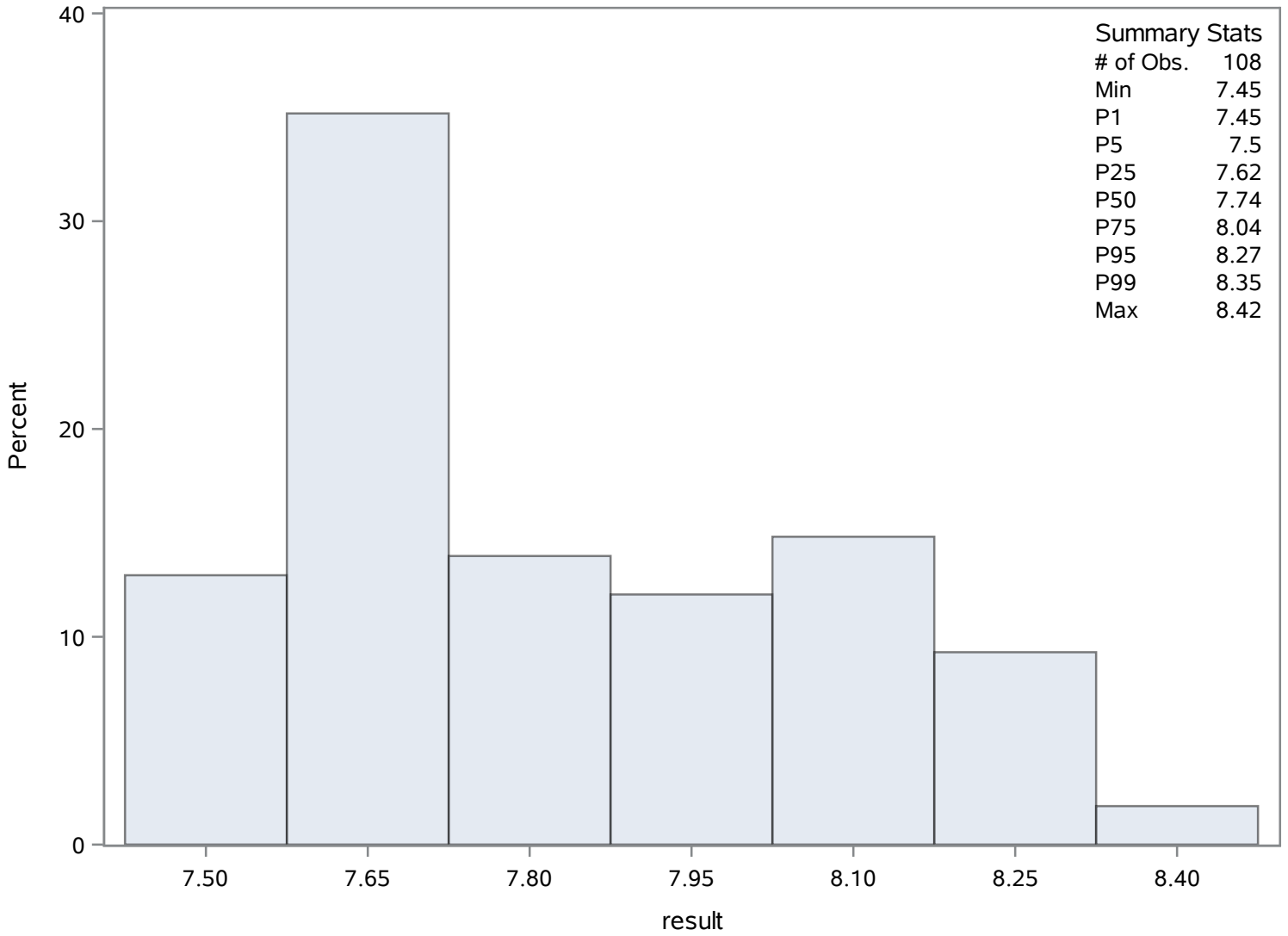
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.45	1793	8.28	1740
7.45	1792	8.30	1830
7.47	1769	8.32	1788
7.48	1768	8.35	1789
7.48	1767	8.42	1809

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.92463768	Sum Observations	1093.6
Std Deviation	0.25049195	Variance	0.06274622
Skewness	0.85508681	Kurtosis	1.36849875
Uncorrected SS	8674.98	Corrected SS	8.59623188
Coeff Variation	3.16092624	Std Error Mean	0.02132329

Basic Statistical Measures			
Location		Variability	
Mean	7.924638	Std Deviation	0.25049
Median	7.900000	Variance	0.06275
Mode	7.800000	Range	1.50000
		Interquartile Range	0.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	371.6423	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.9
99%	8.6
95%	8.4
90%	8.2
75% Q3	8.1
50% Median	7.9
25% Q1	7.8
10%	7.7
5%	7.6
1%	7.4
0% Min	7.4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Lab

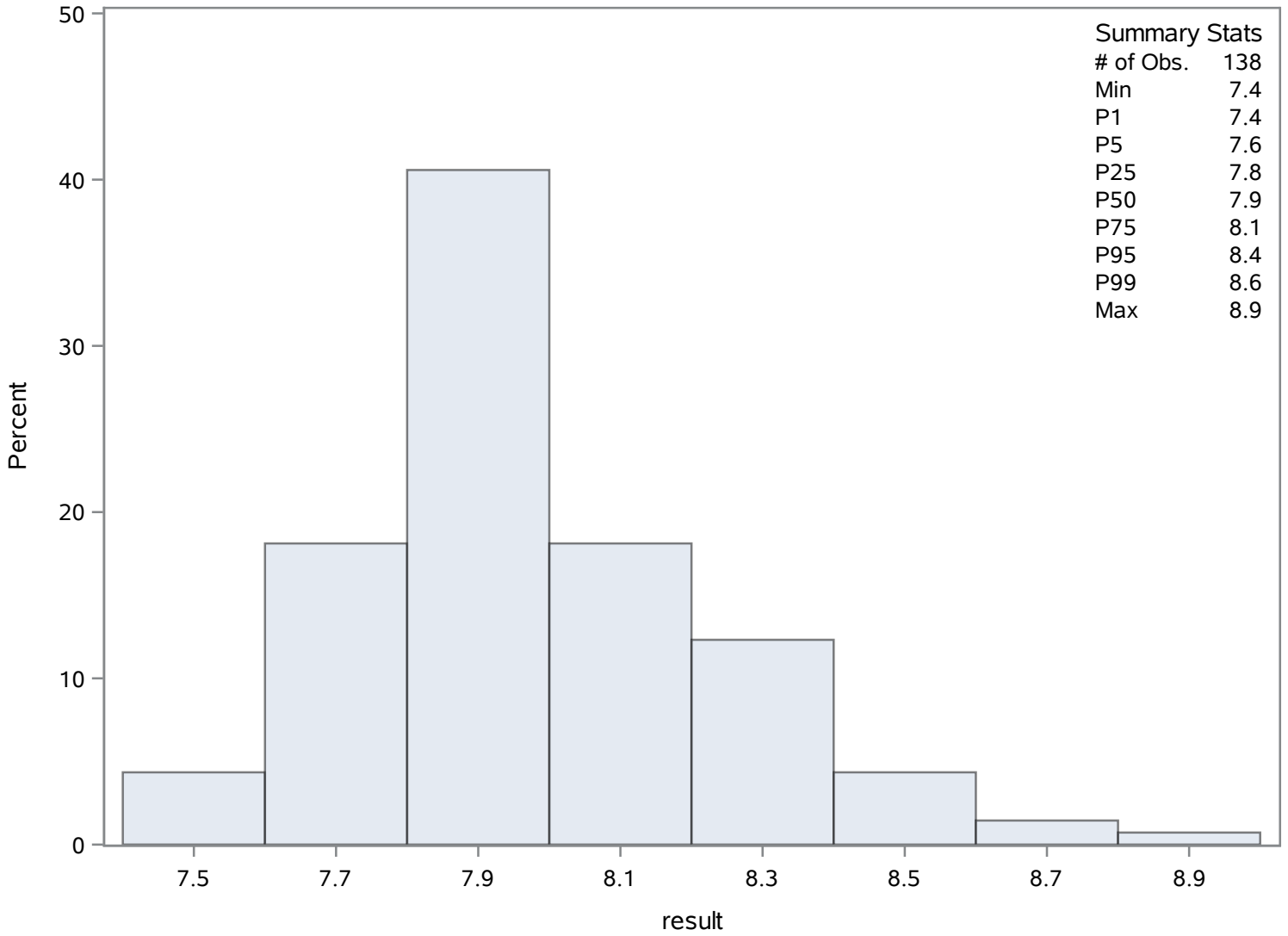
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.4	1965	8.5	1854
7.4	1866	8.5	1926
7.5	1966	8.6	1855
7.5	1859	8.6	1927
7.5	1858	8.9	1856

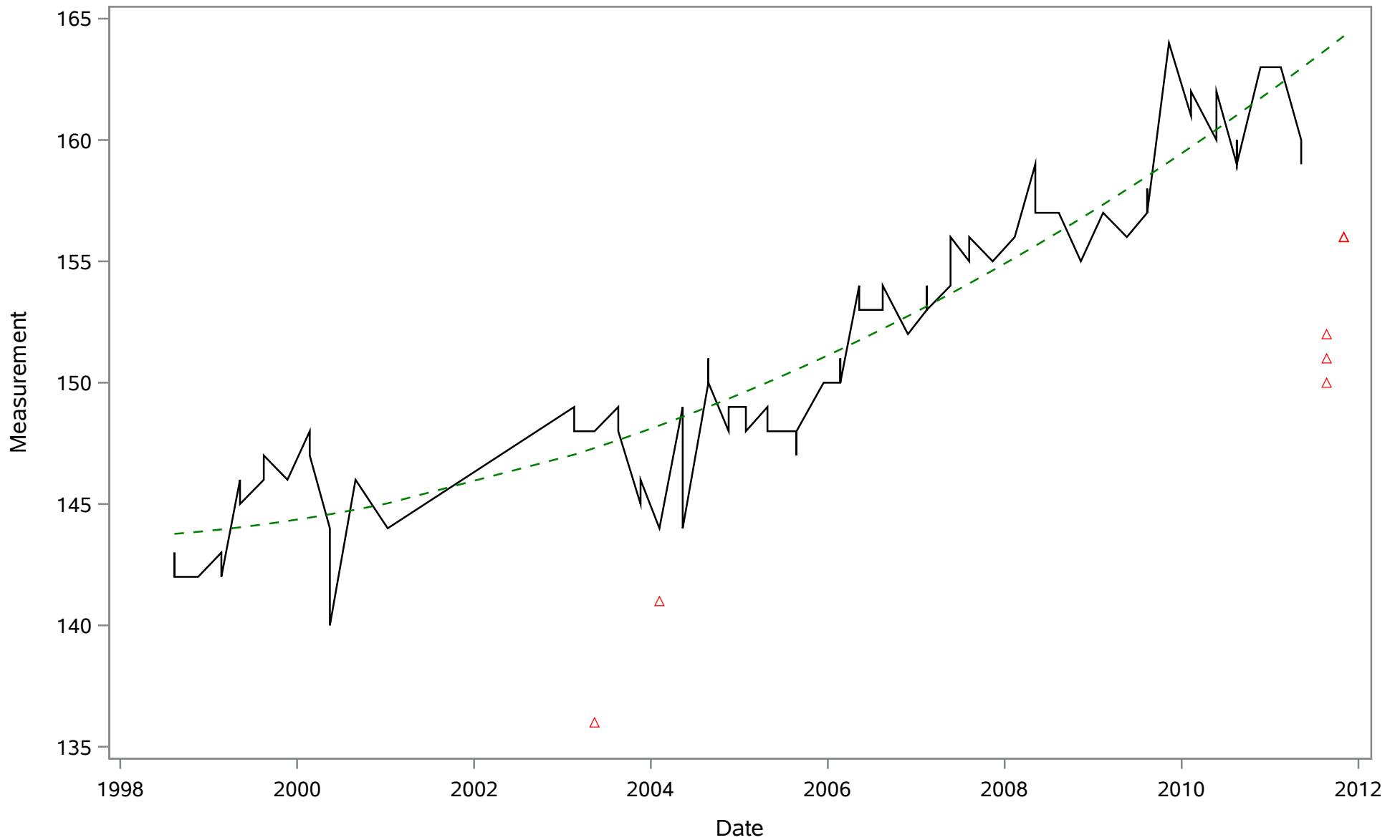
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Lab

The UNIVARIATE Procedure

Distribution of result

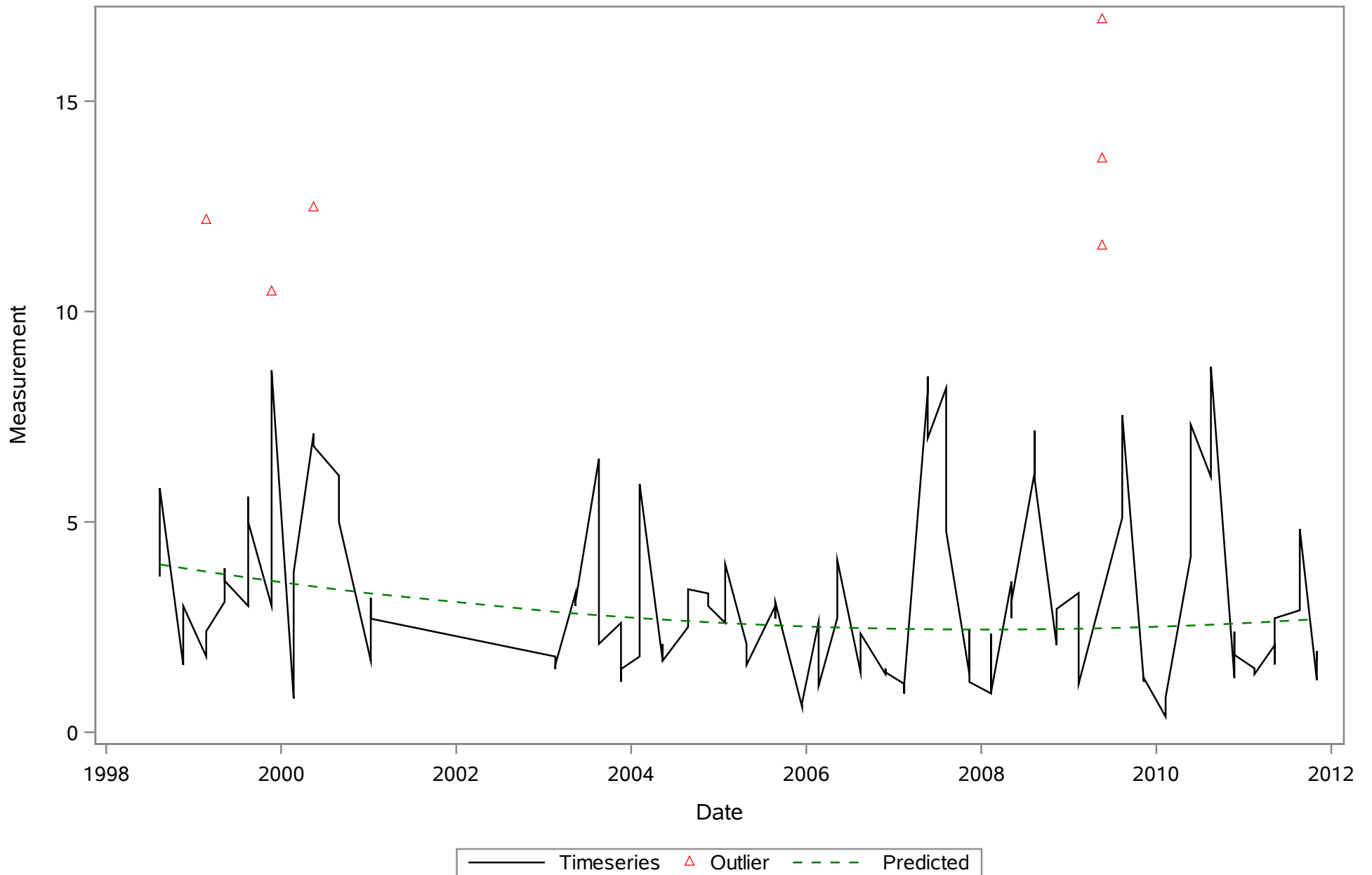


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
ALK_tot_mgL

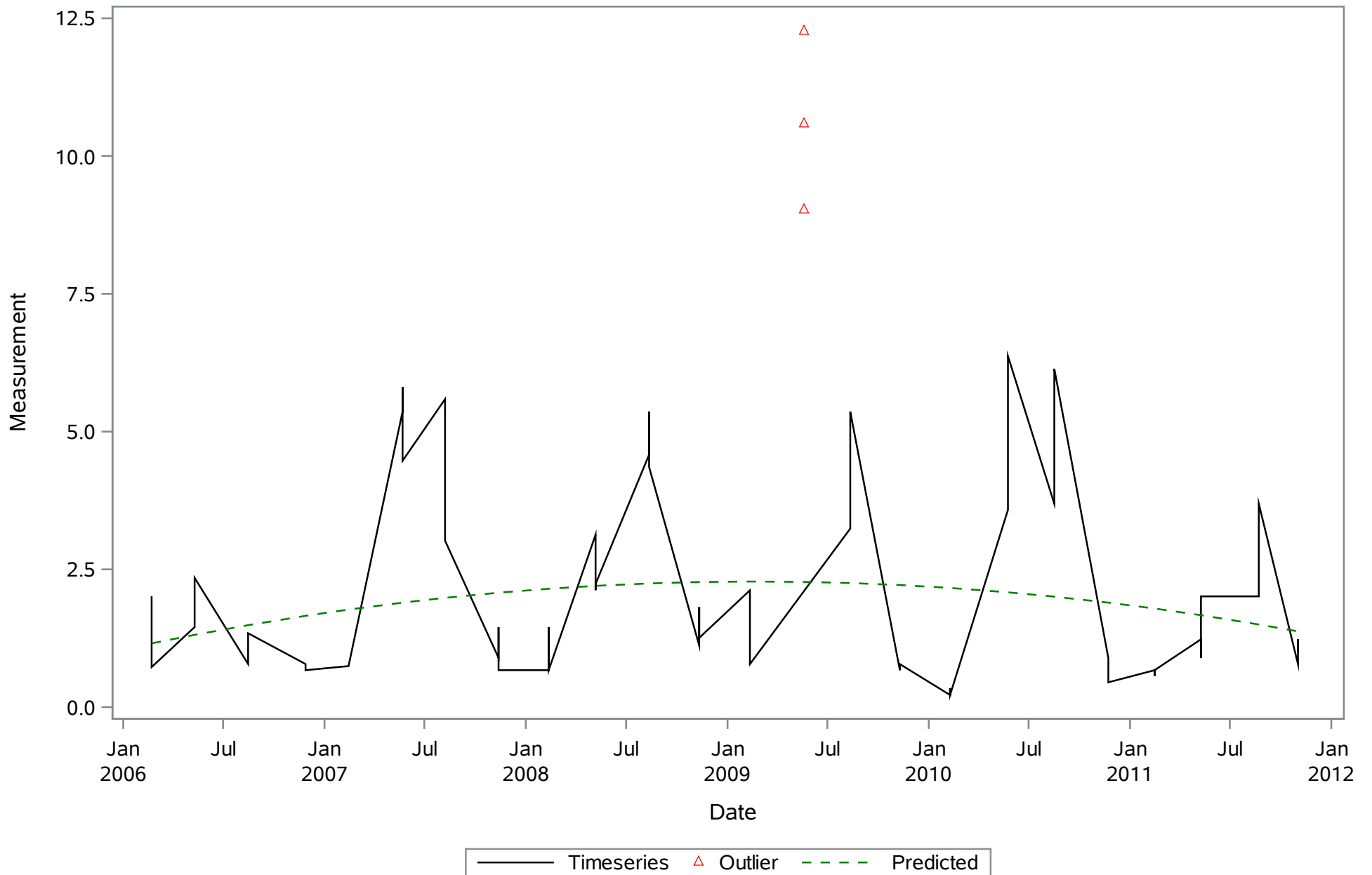


— Timeseries △ Outlier - - - Predicted

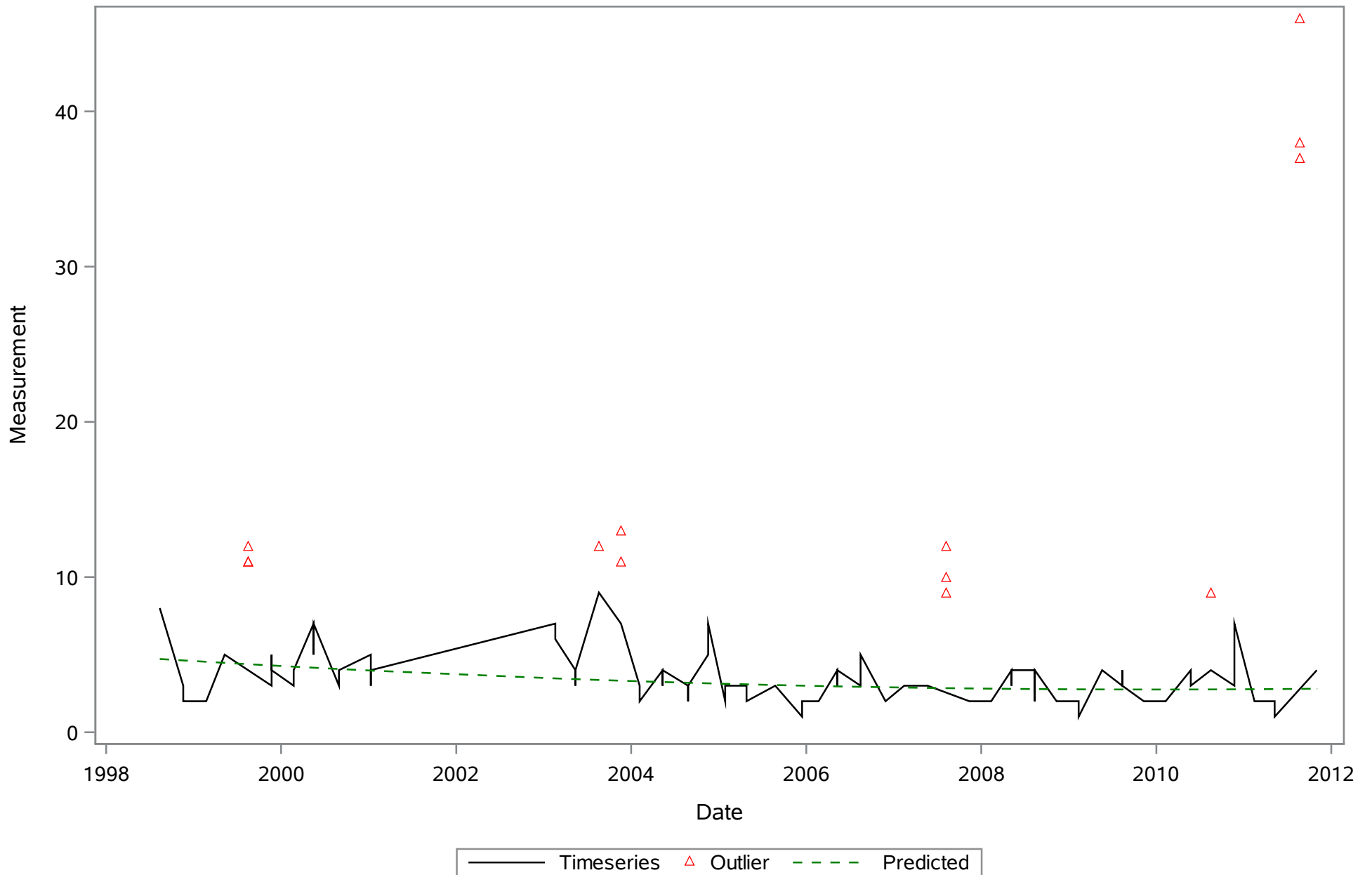
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_Uncor_ugL



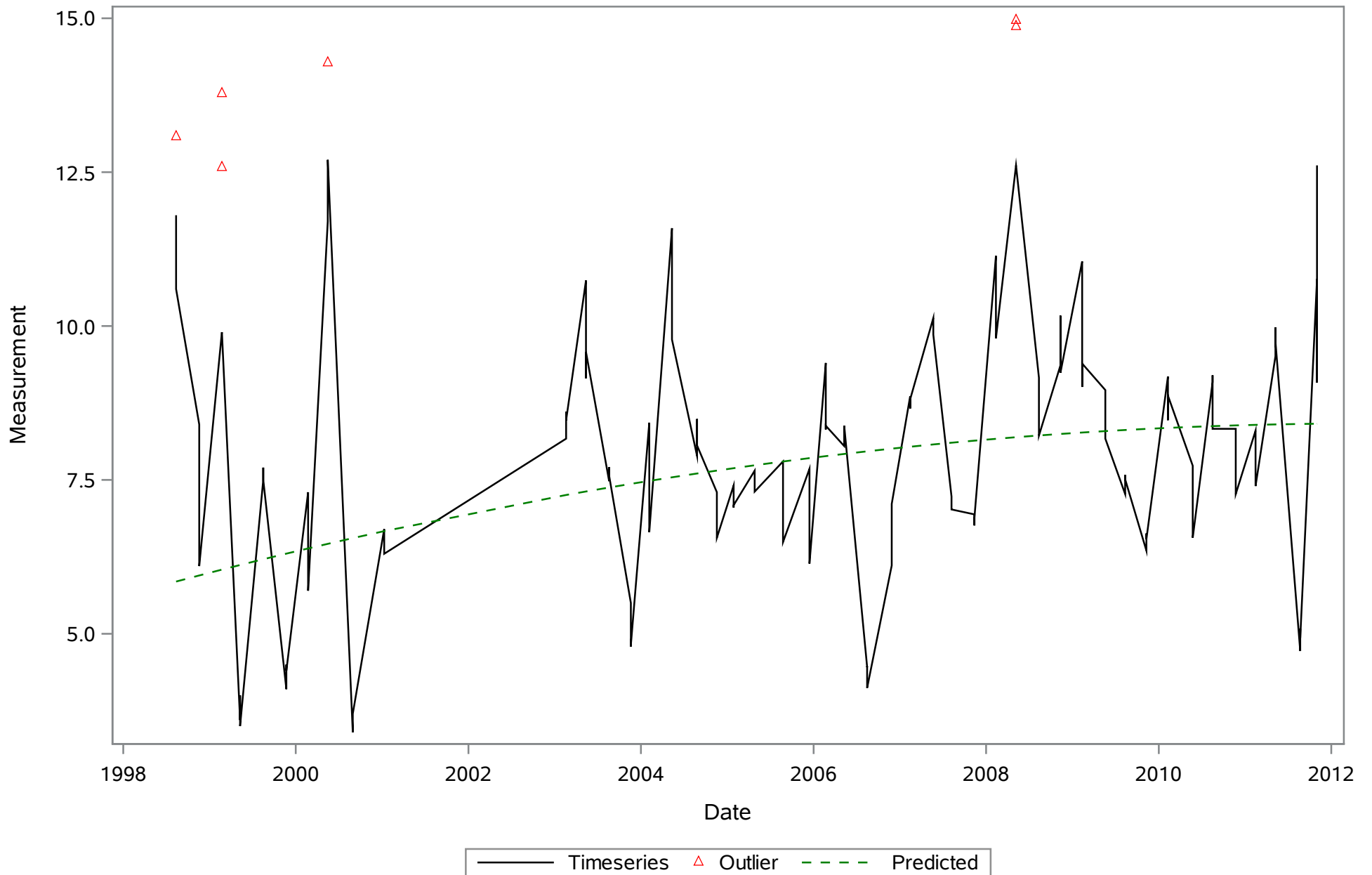
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_cor_uhl



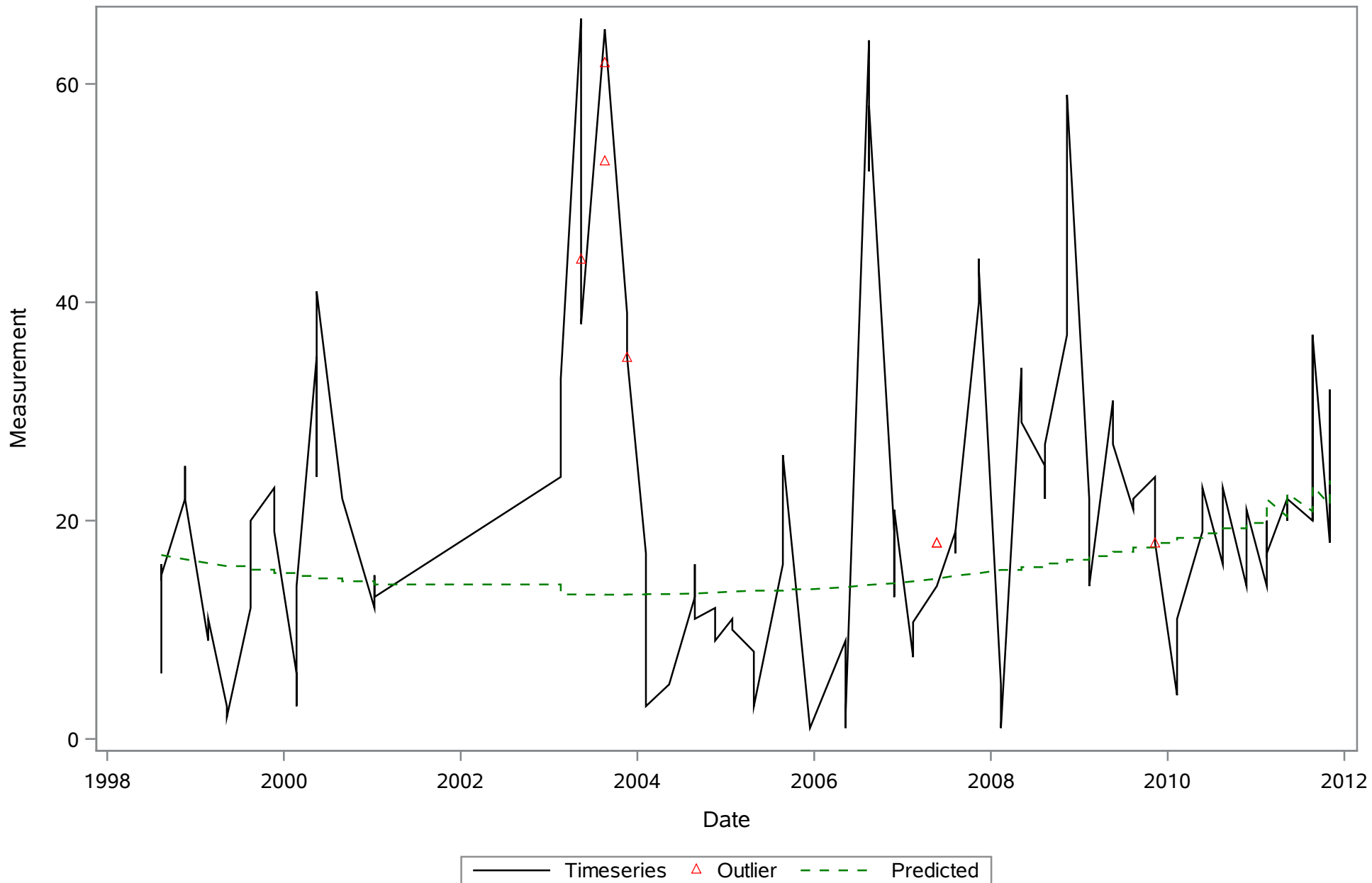
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
COLOR_PtCo



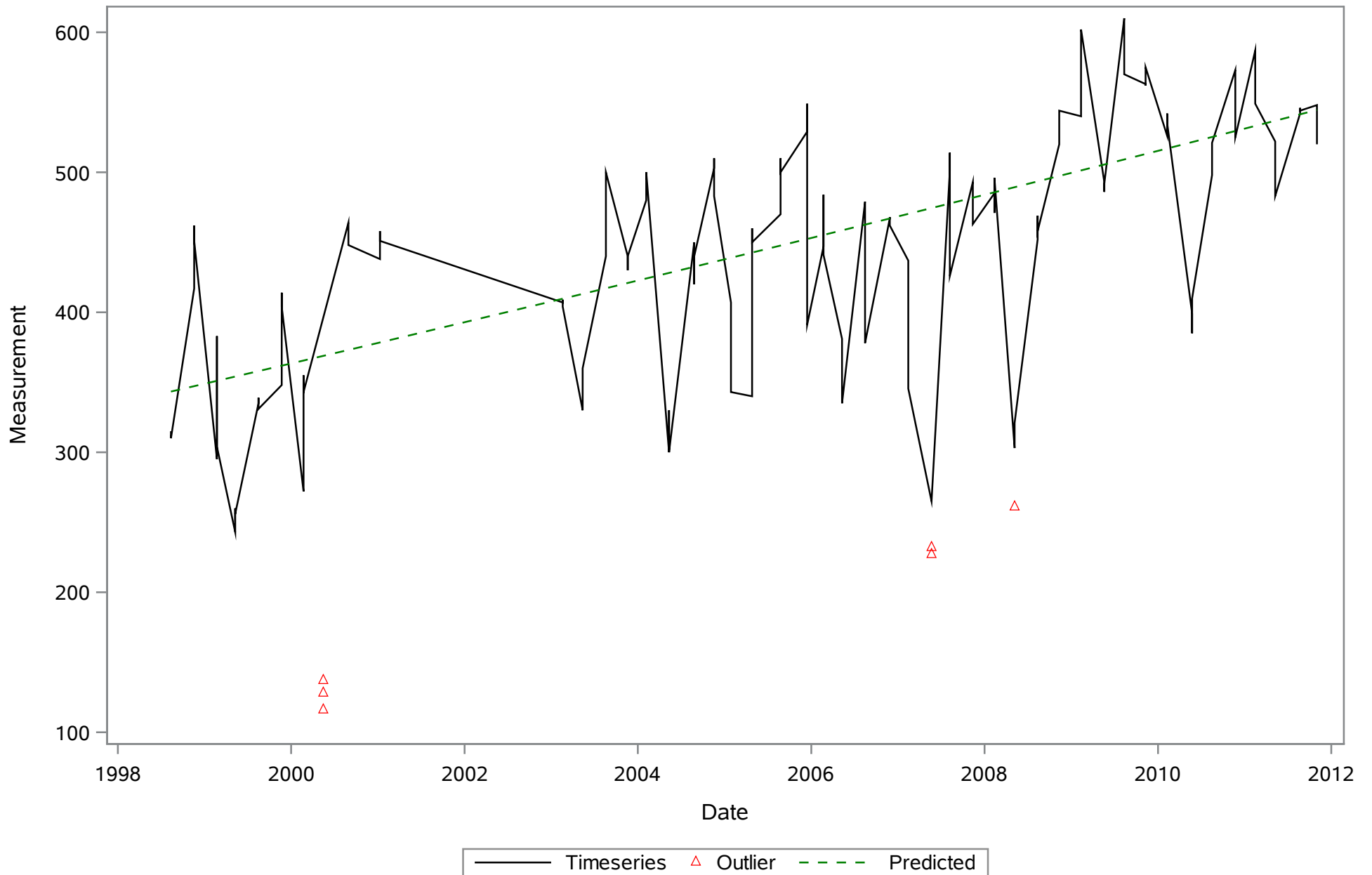
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
DO_mgL



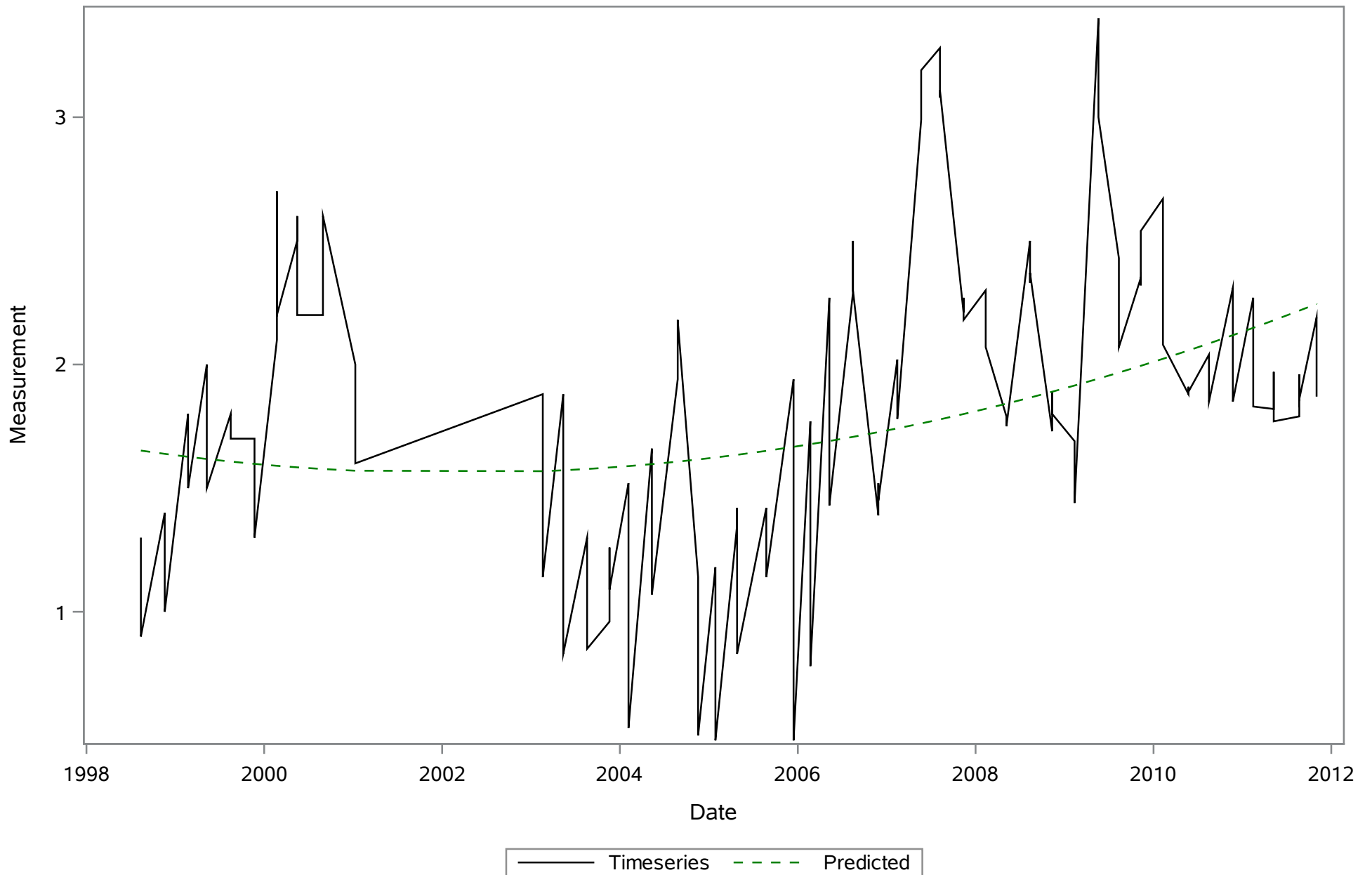
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NH4_ugl



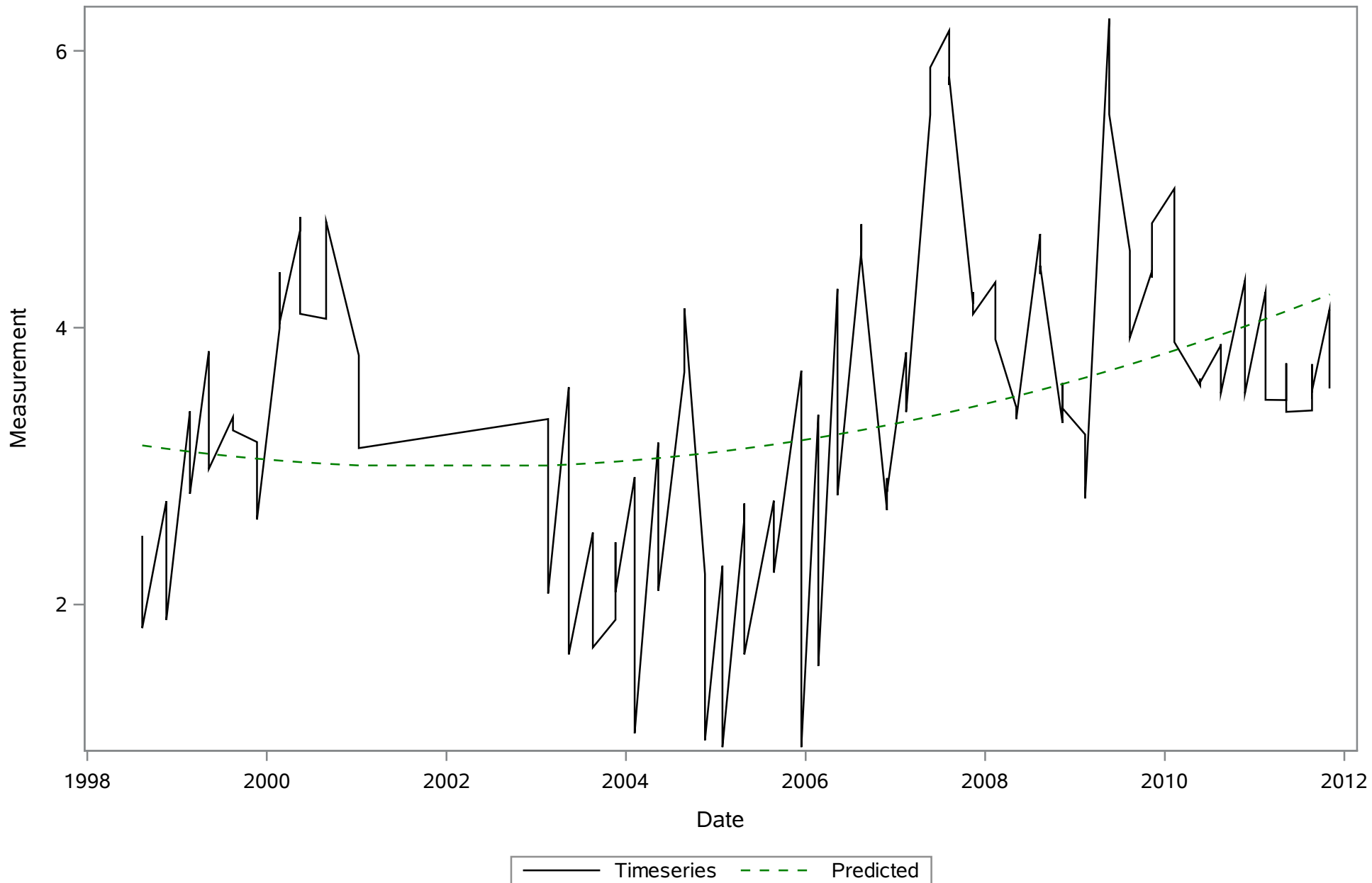
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NO3_ugL



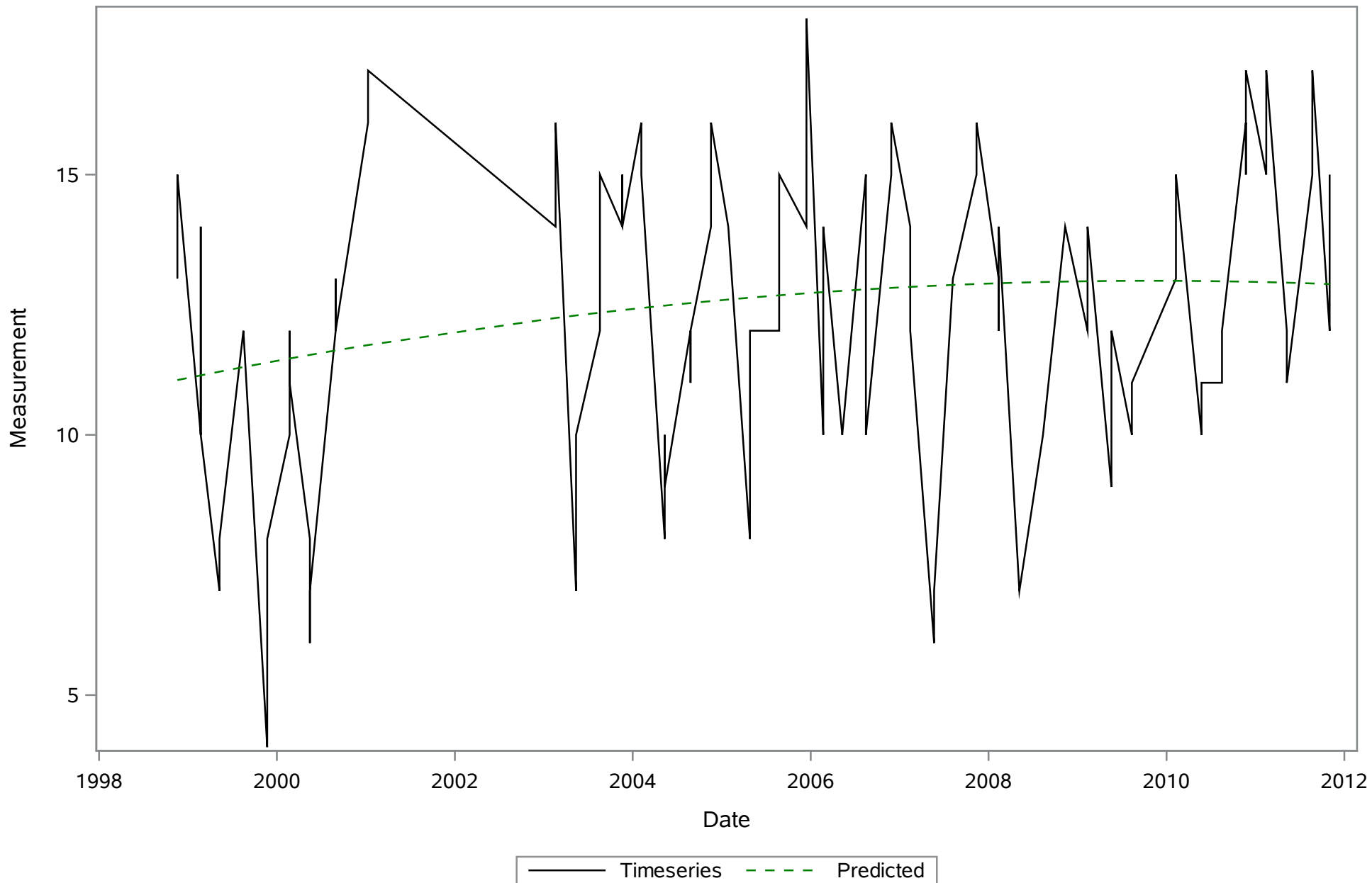
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SAL_Perc



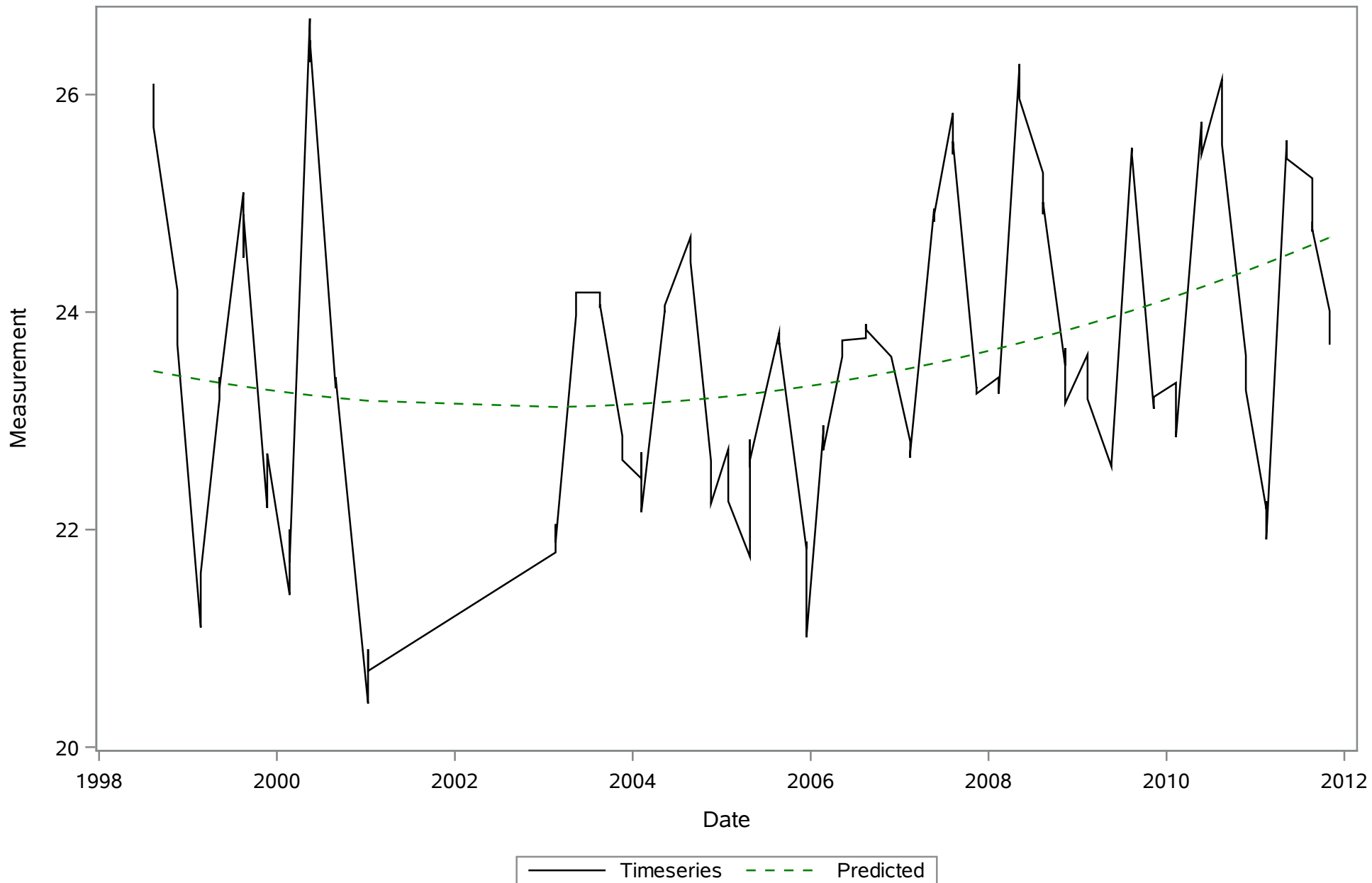
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SPCOND_mS_cm



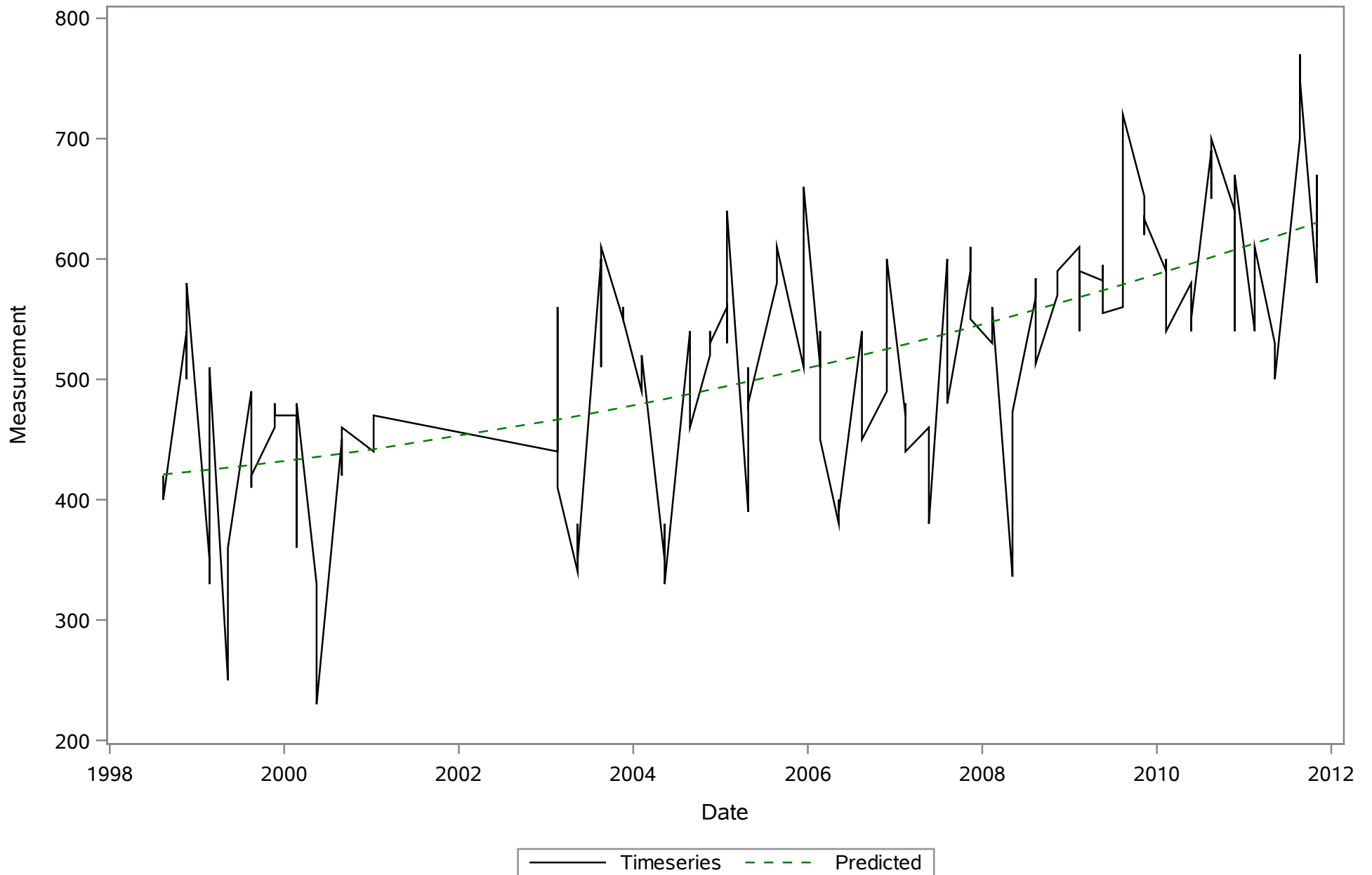
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SRP_ugL



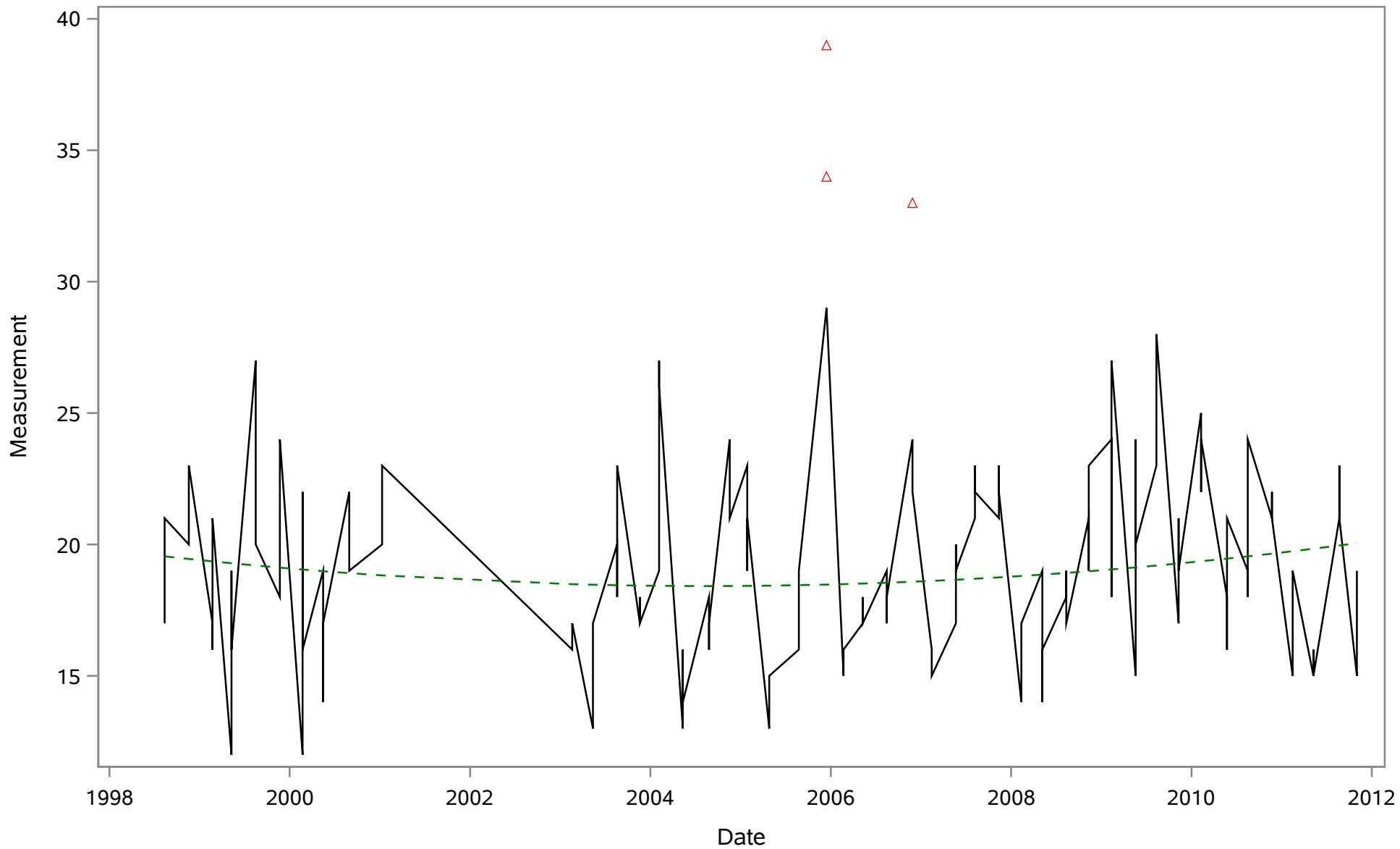
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TEMP_C



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TN_ugl

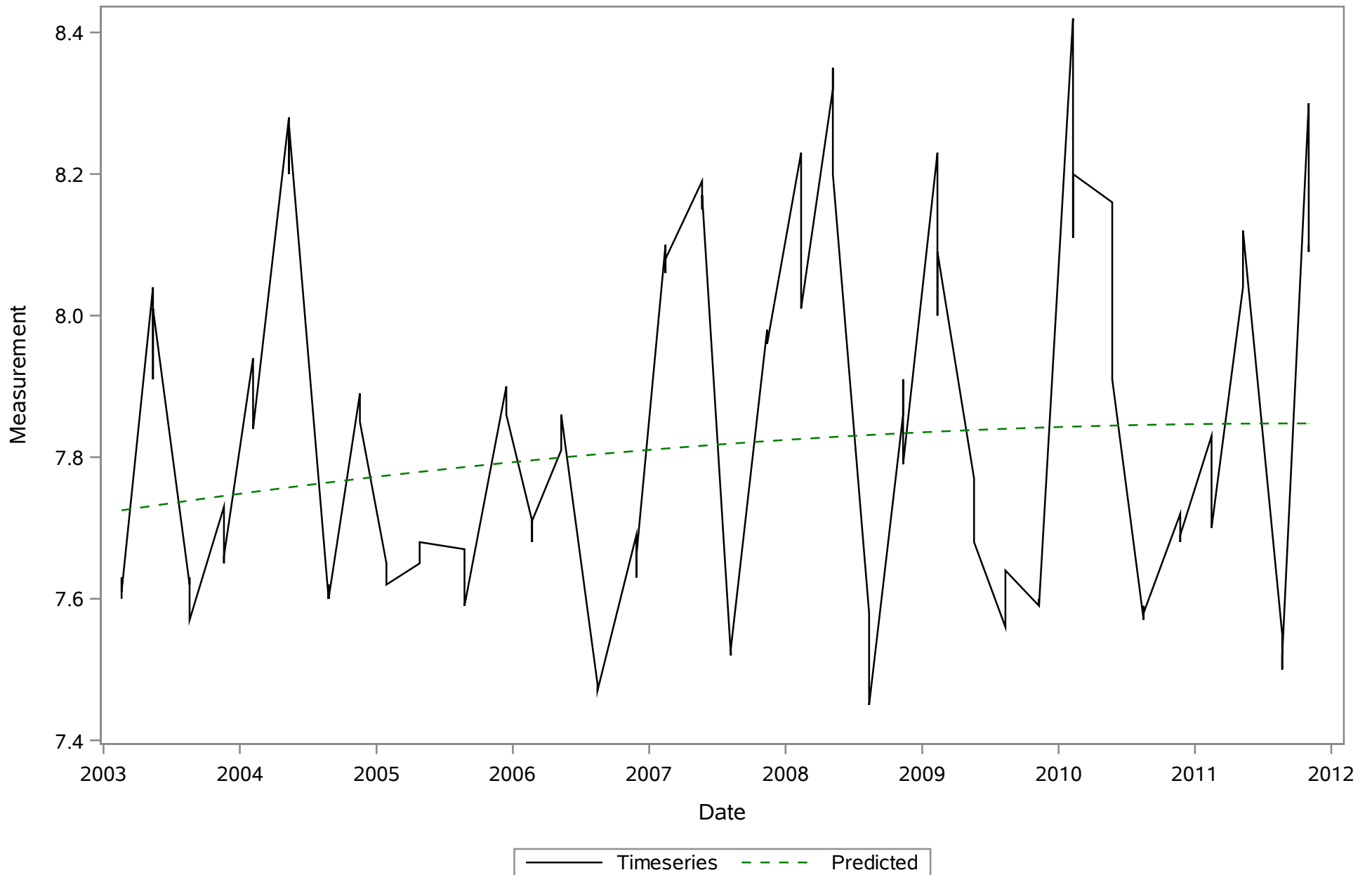


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TP_ugl

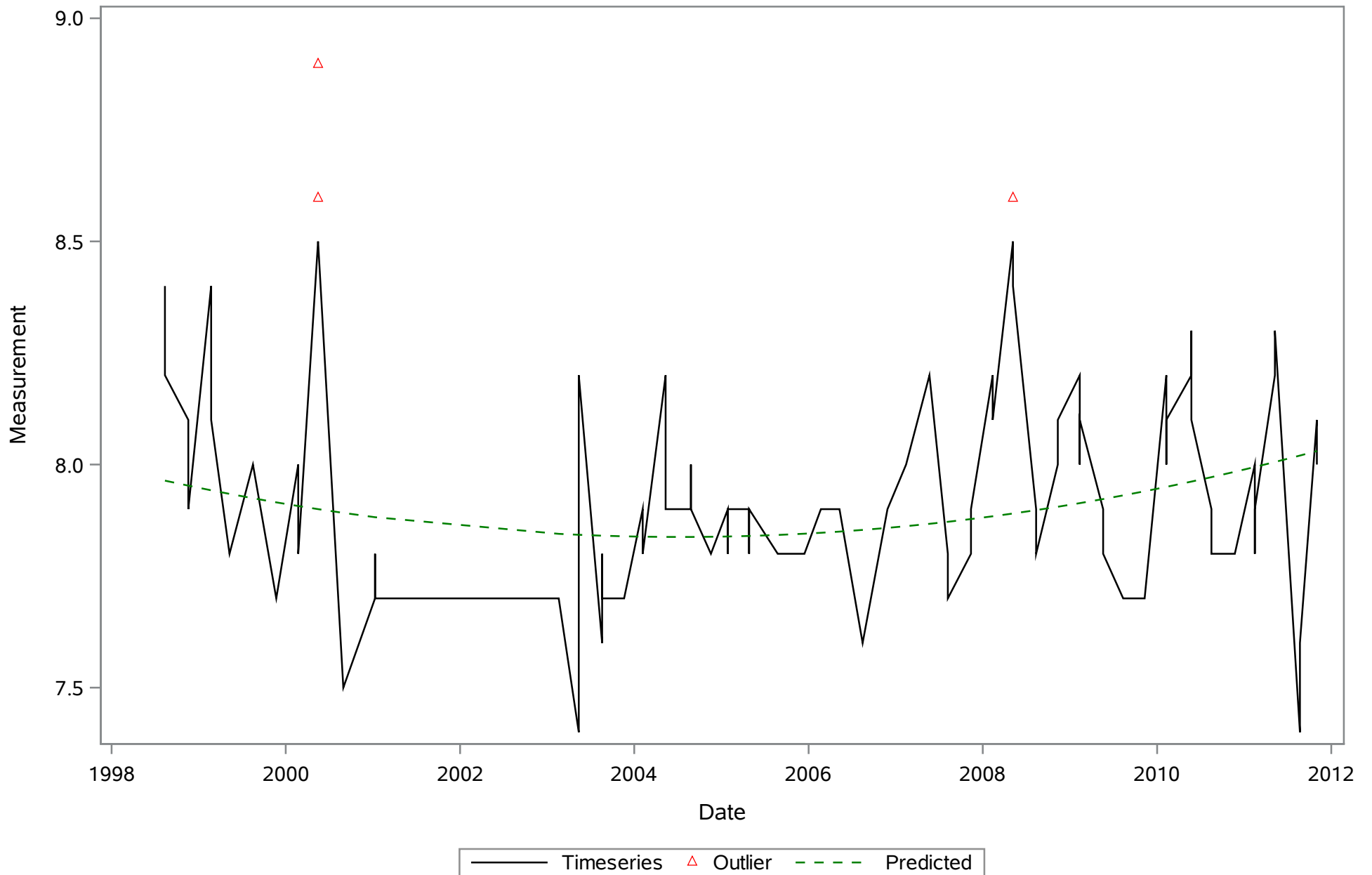


— Timeseries △ Outlier - - - Predicted

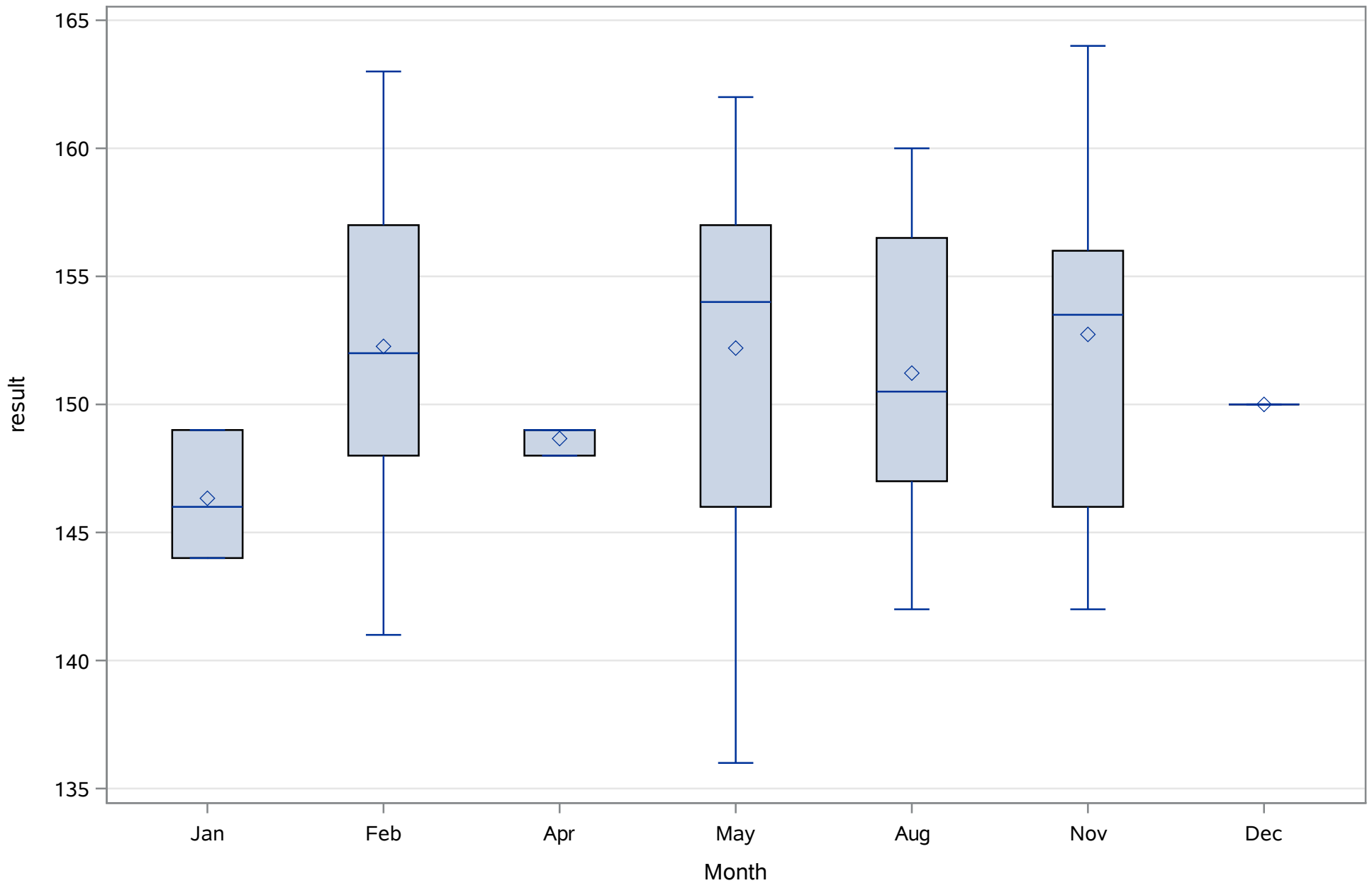
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Field



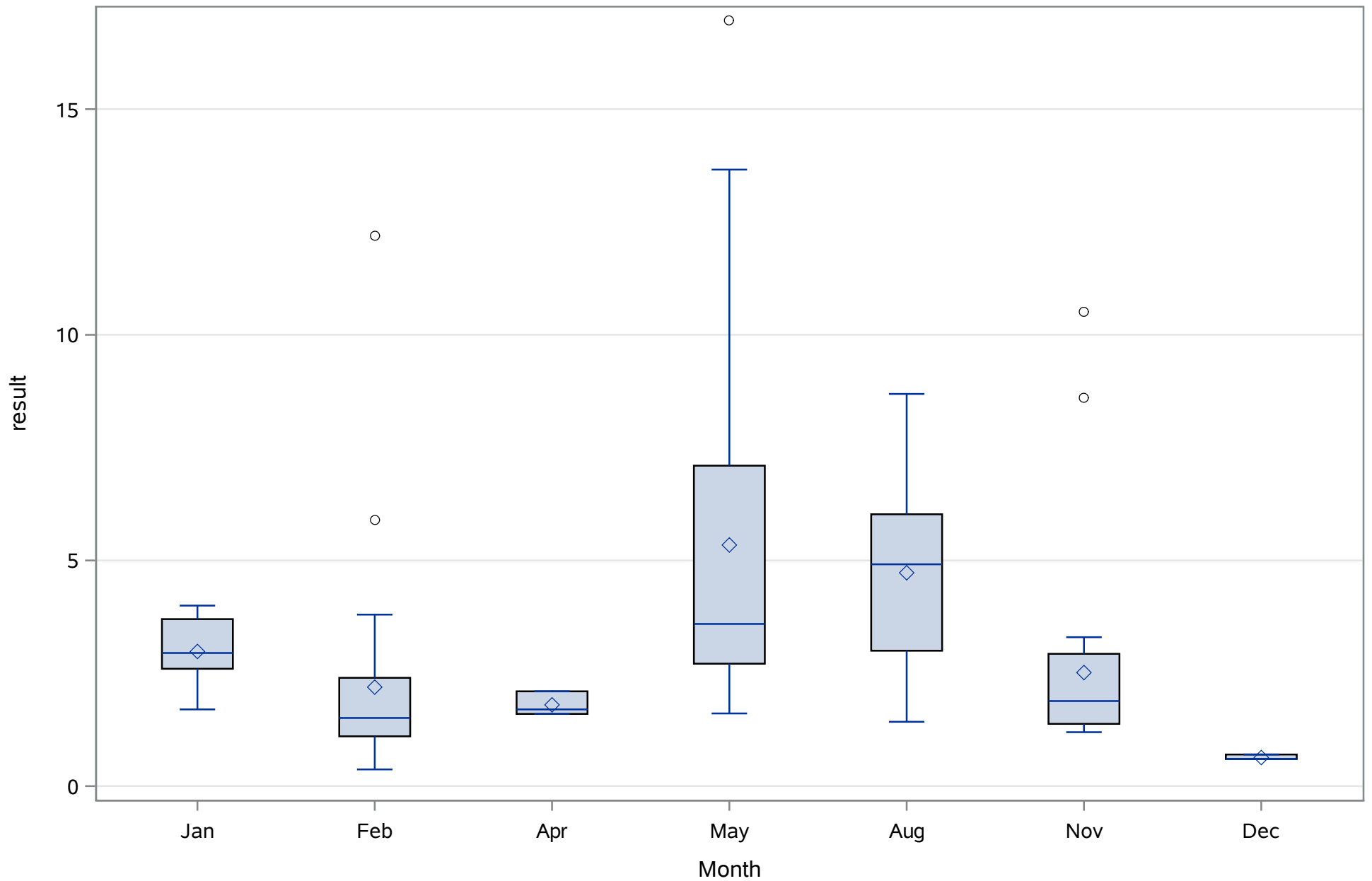
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Lab



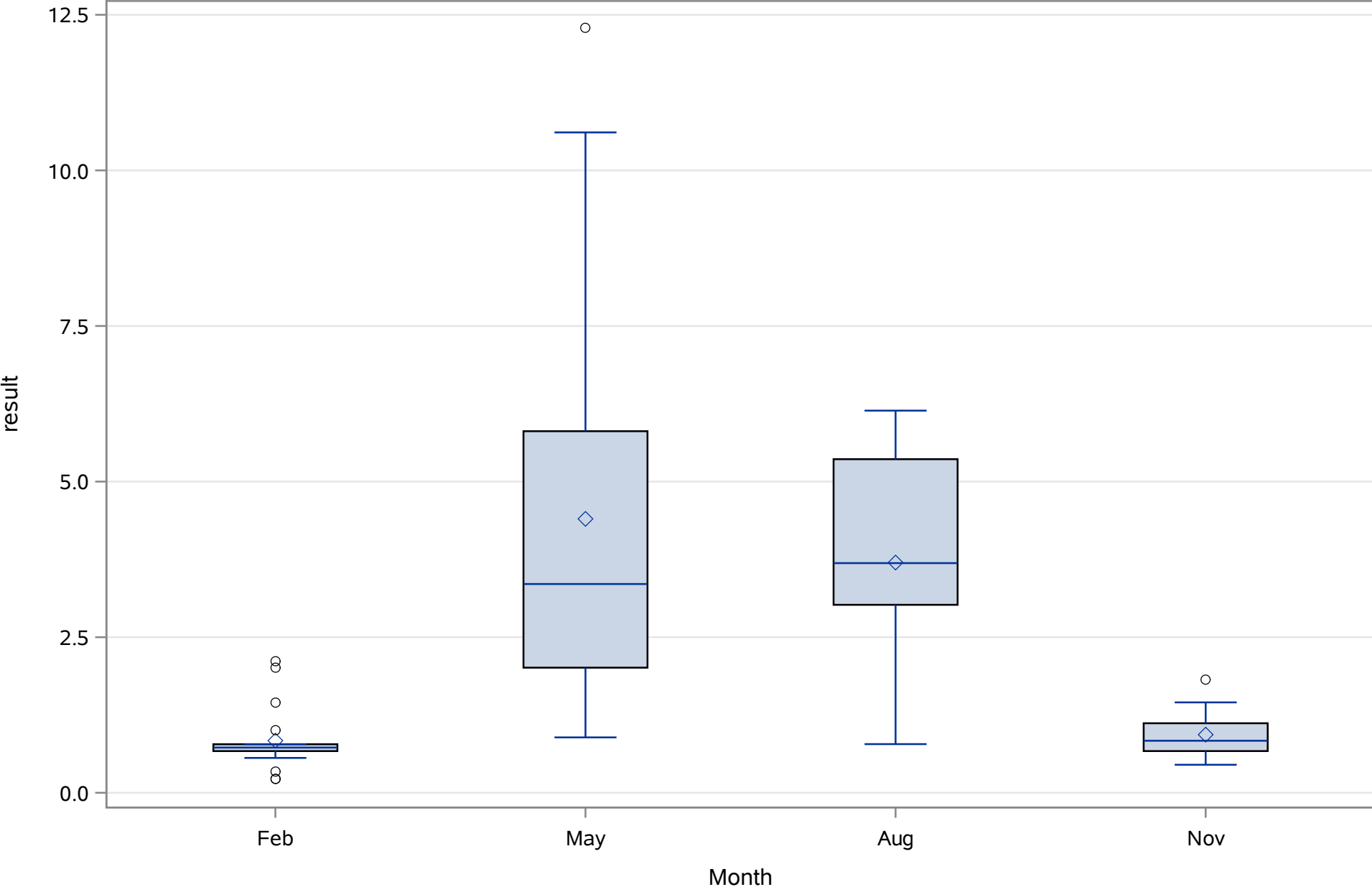
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
ALK_tot_mgL



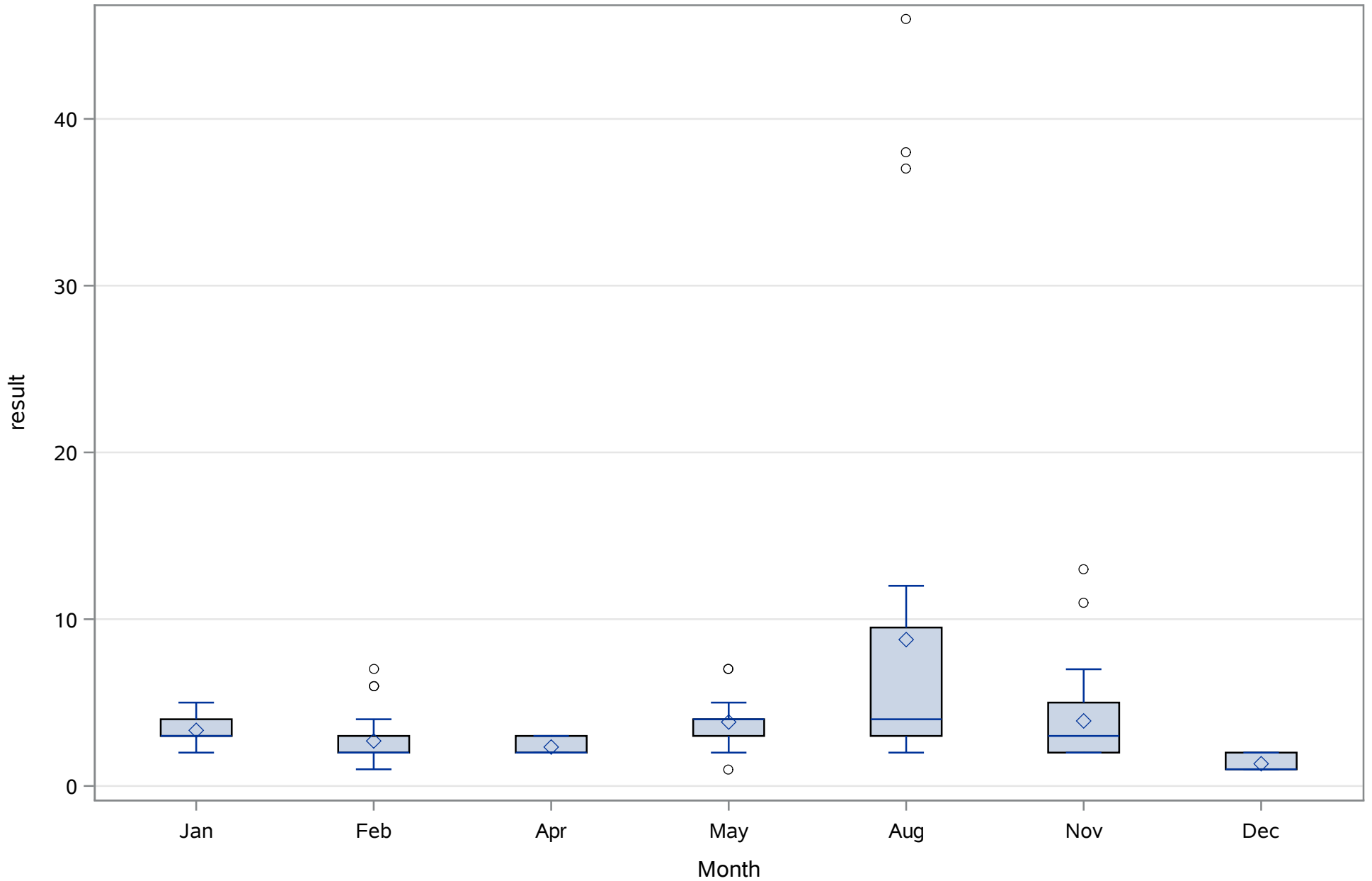
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_Uncor_ugL



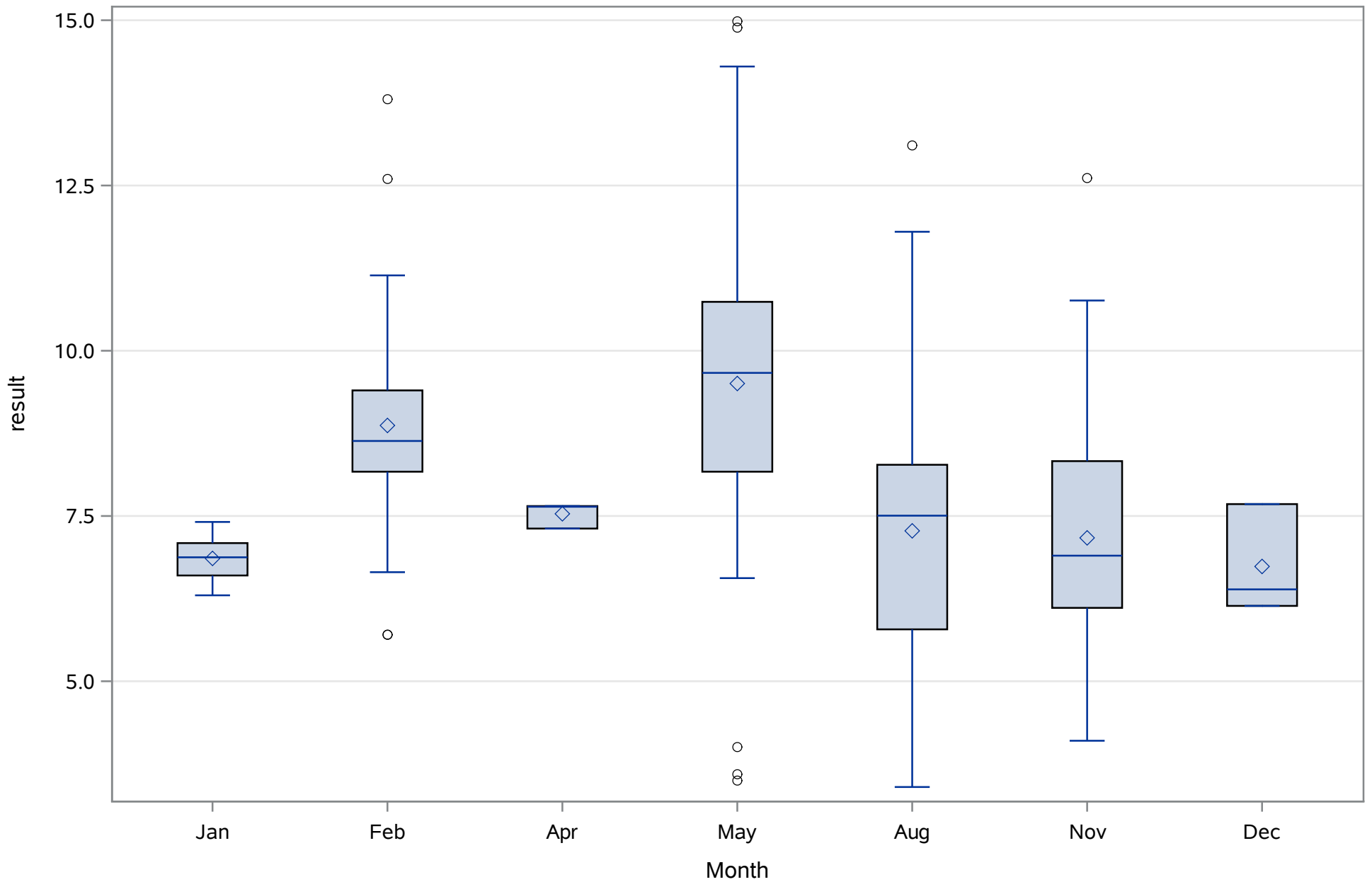
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
CHLA_cor_ugl



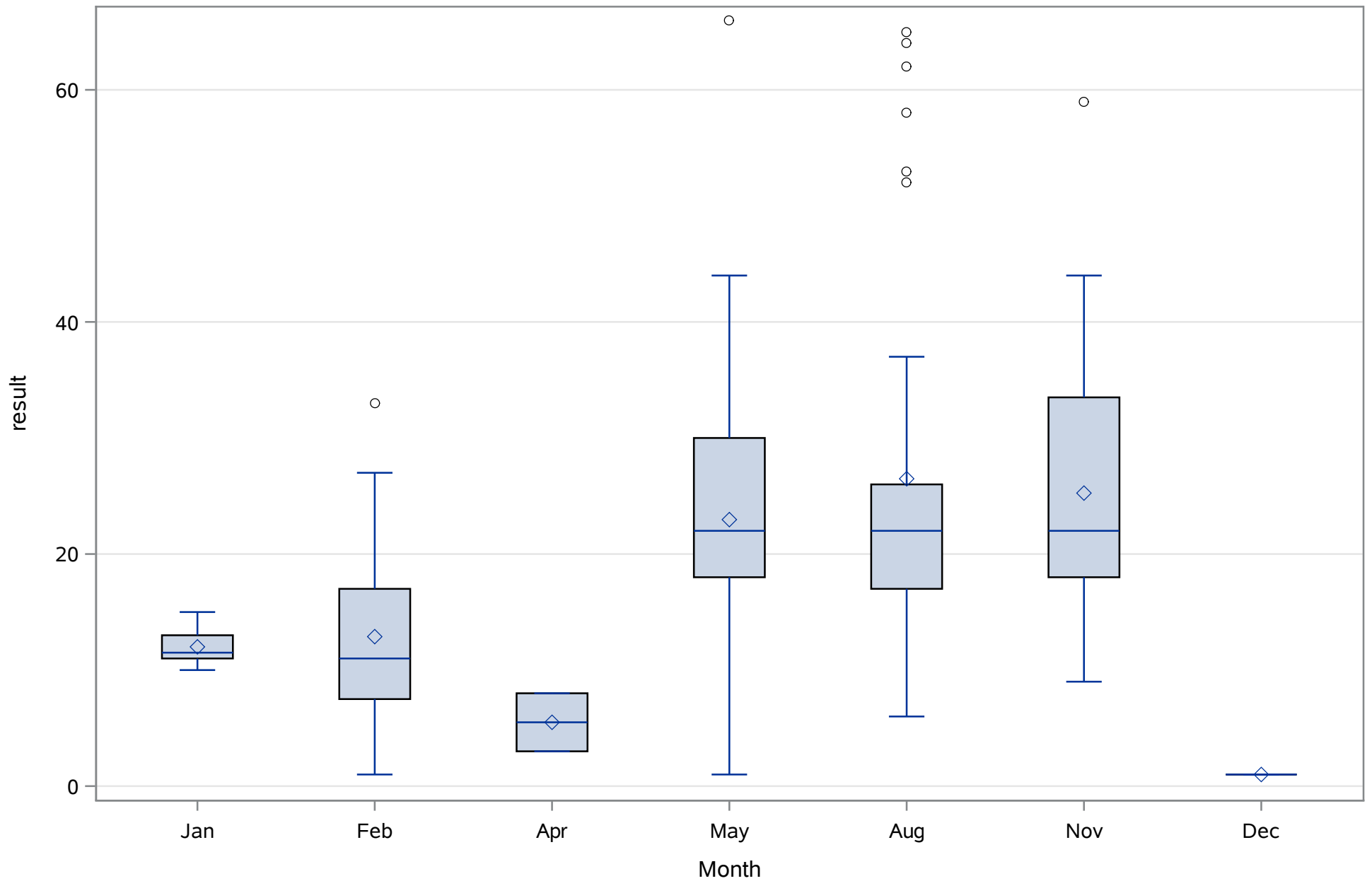
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
COLOR_PtCo



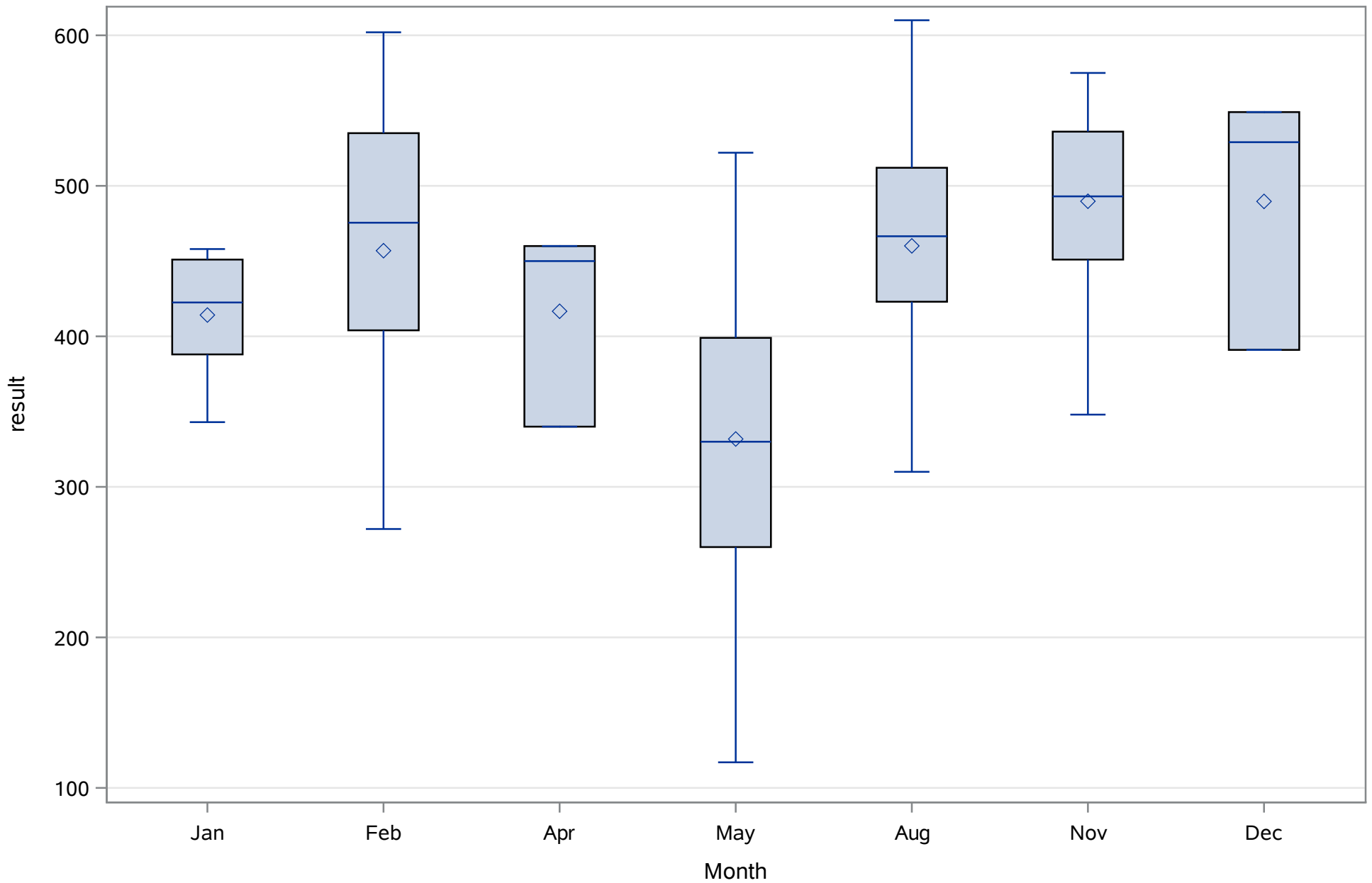
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
DO_mgL



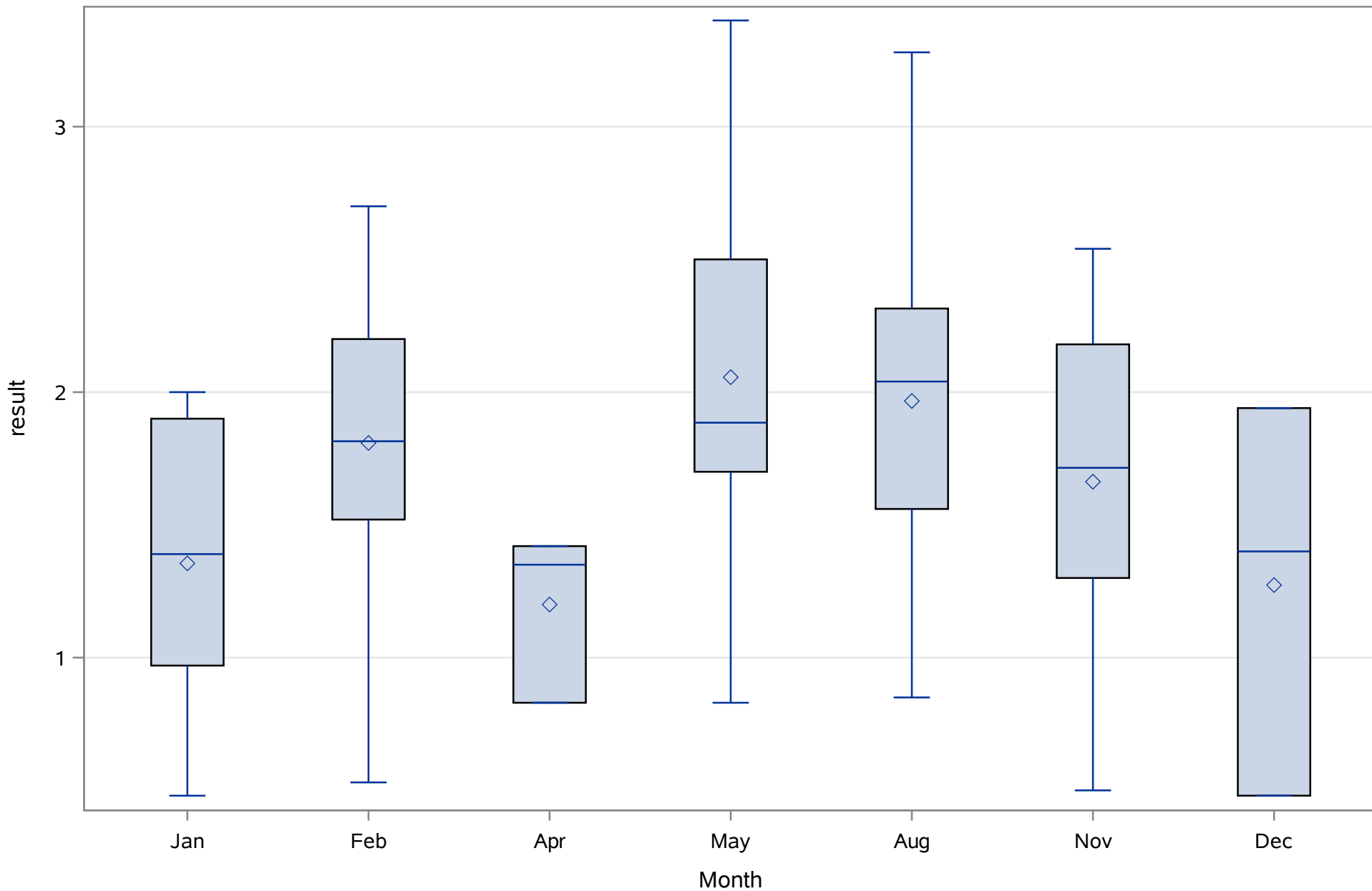
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NH4_ugl



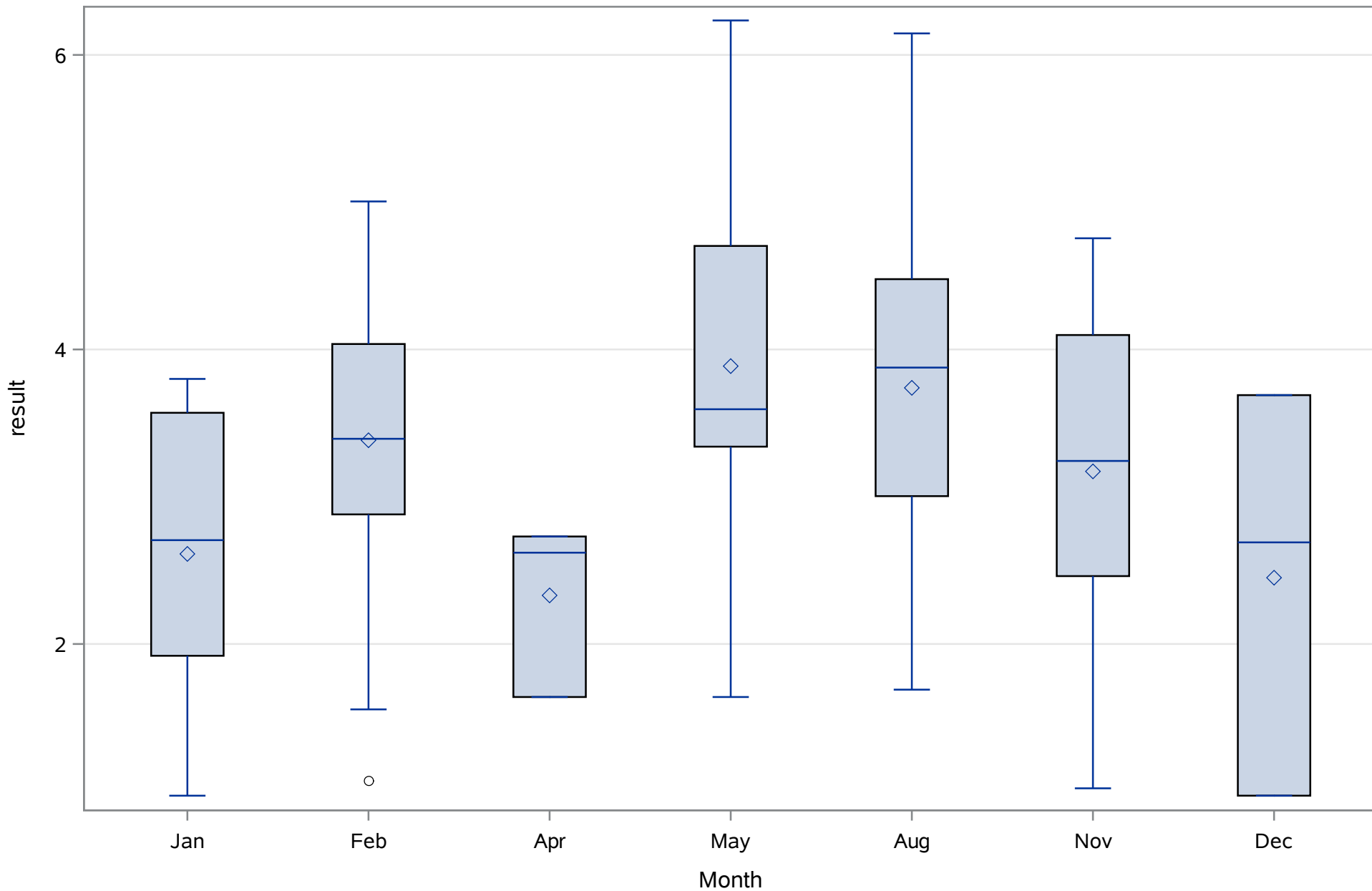
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
NO3_ugL



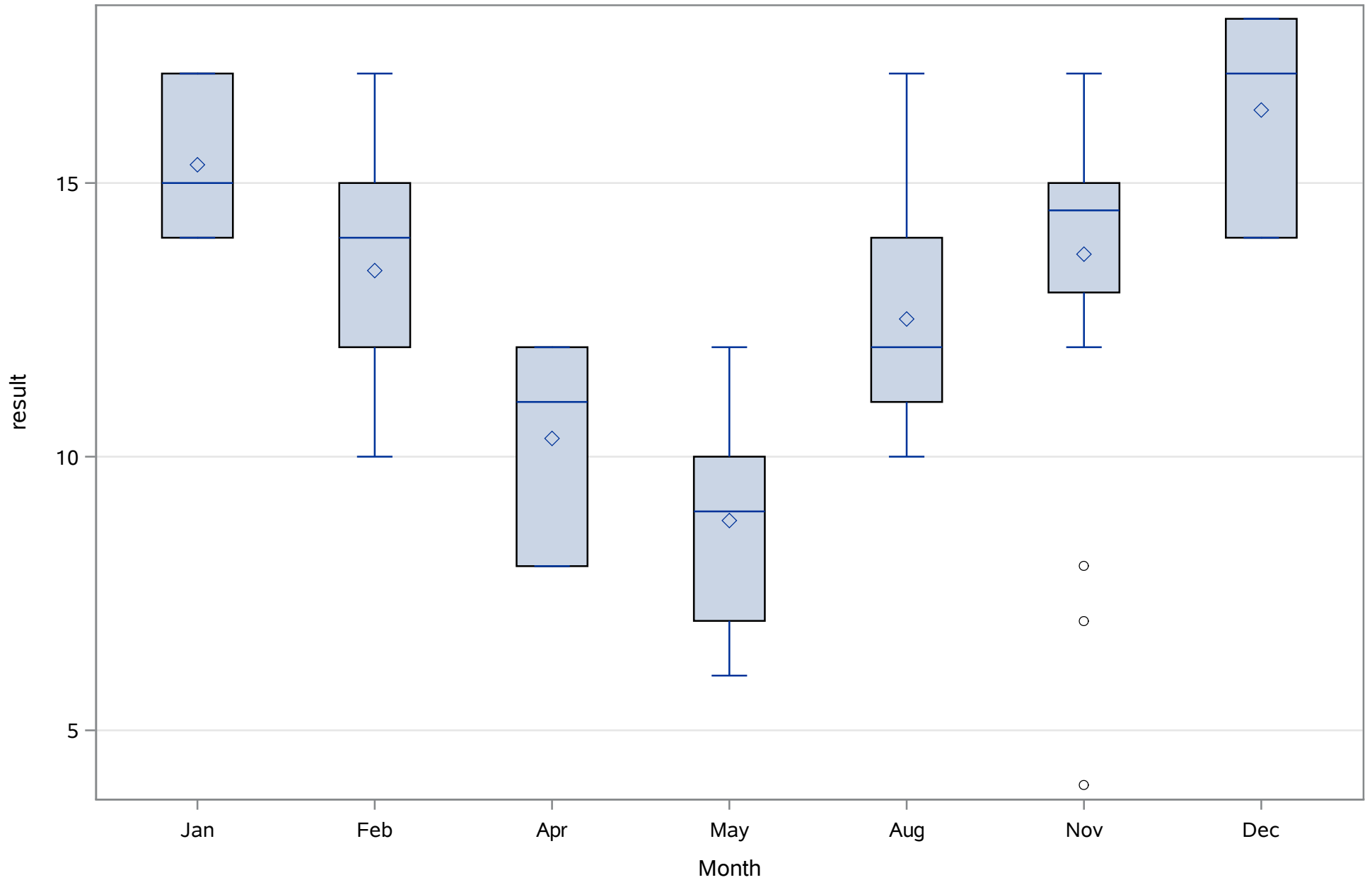
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SAL_Perc



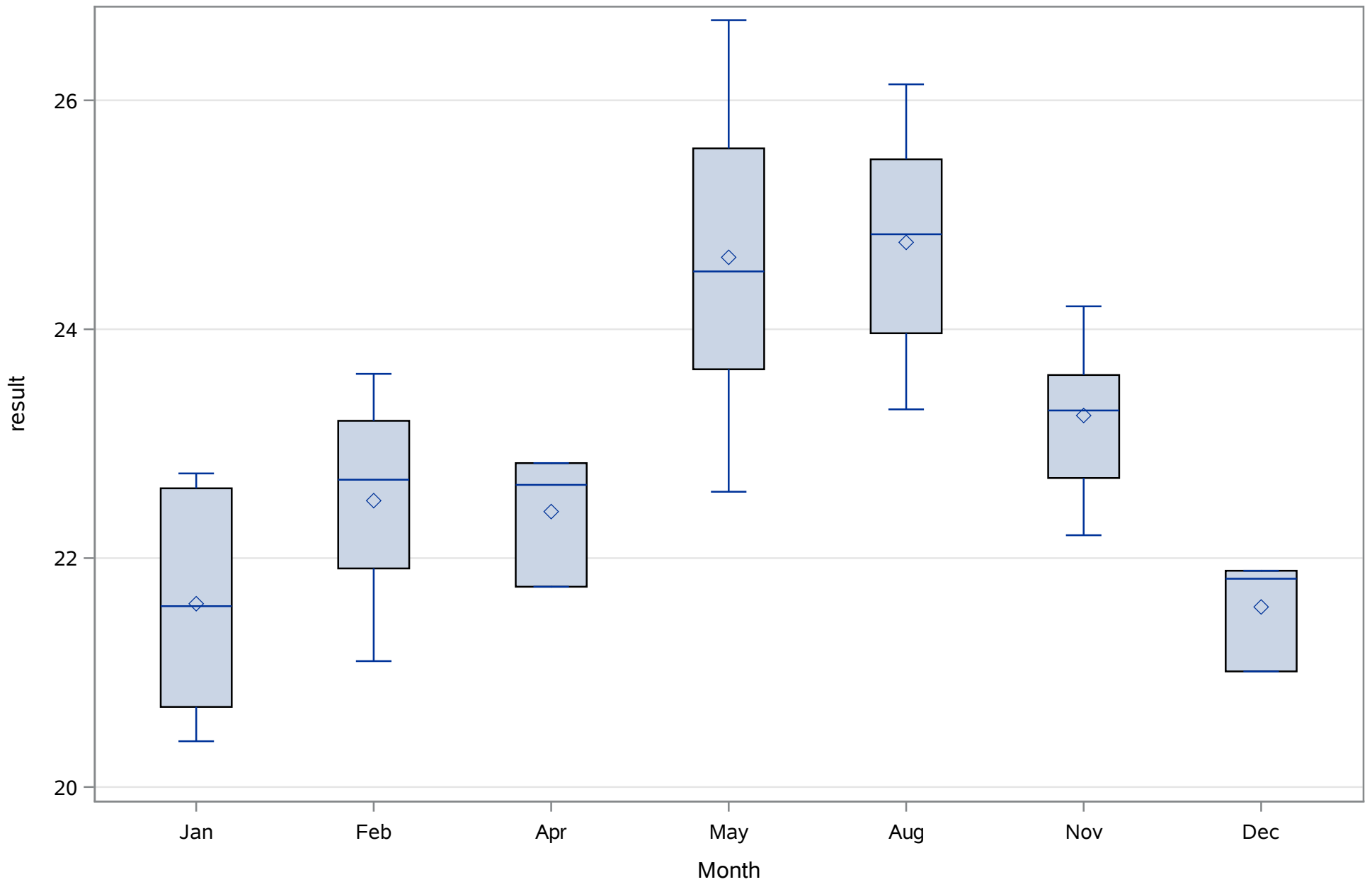
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SPCOND_mS_cm



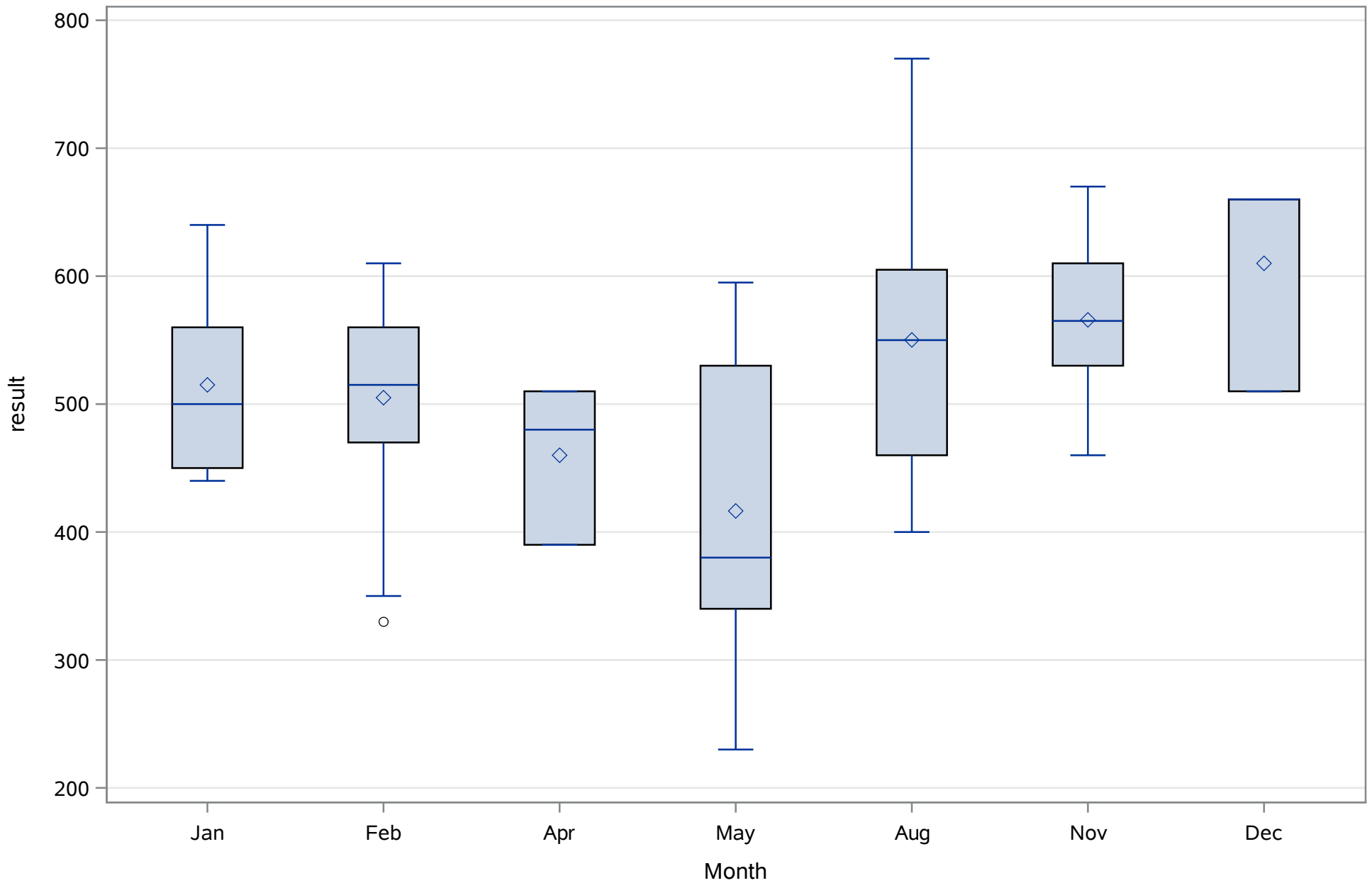
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
SRP_ugL



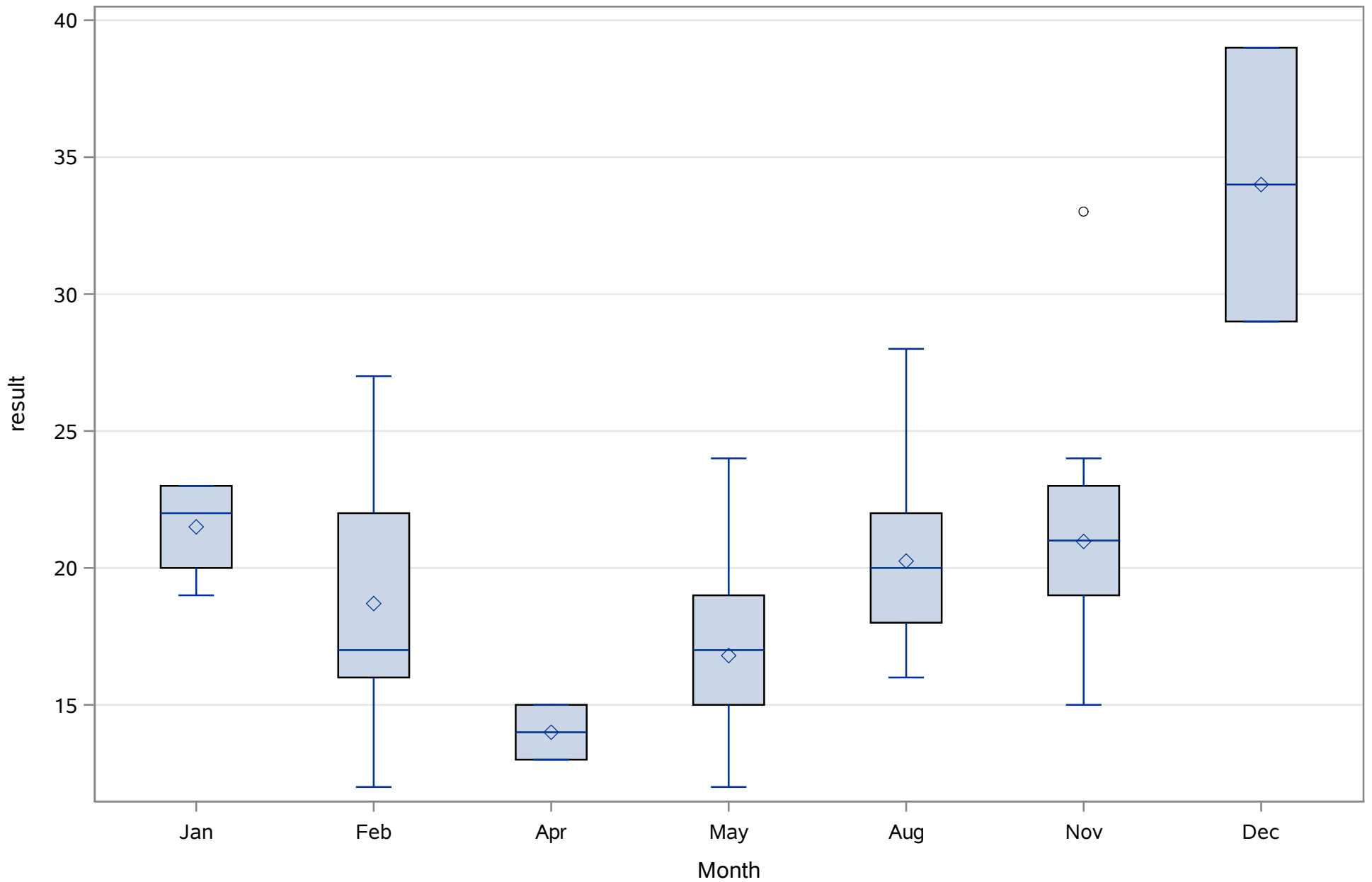
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TEMP_C



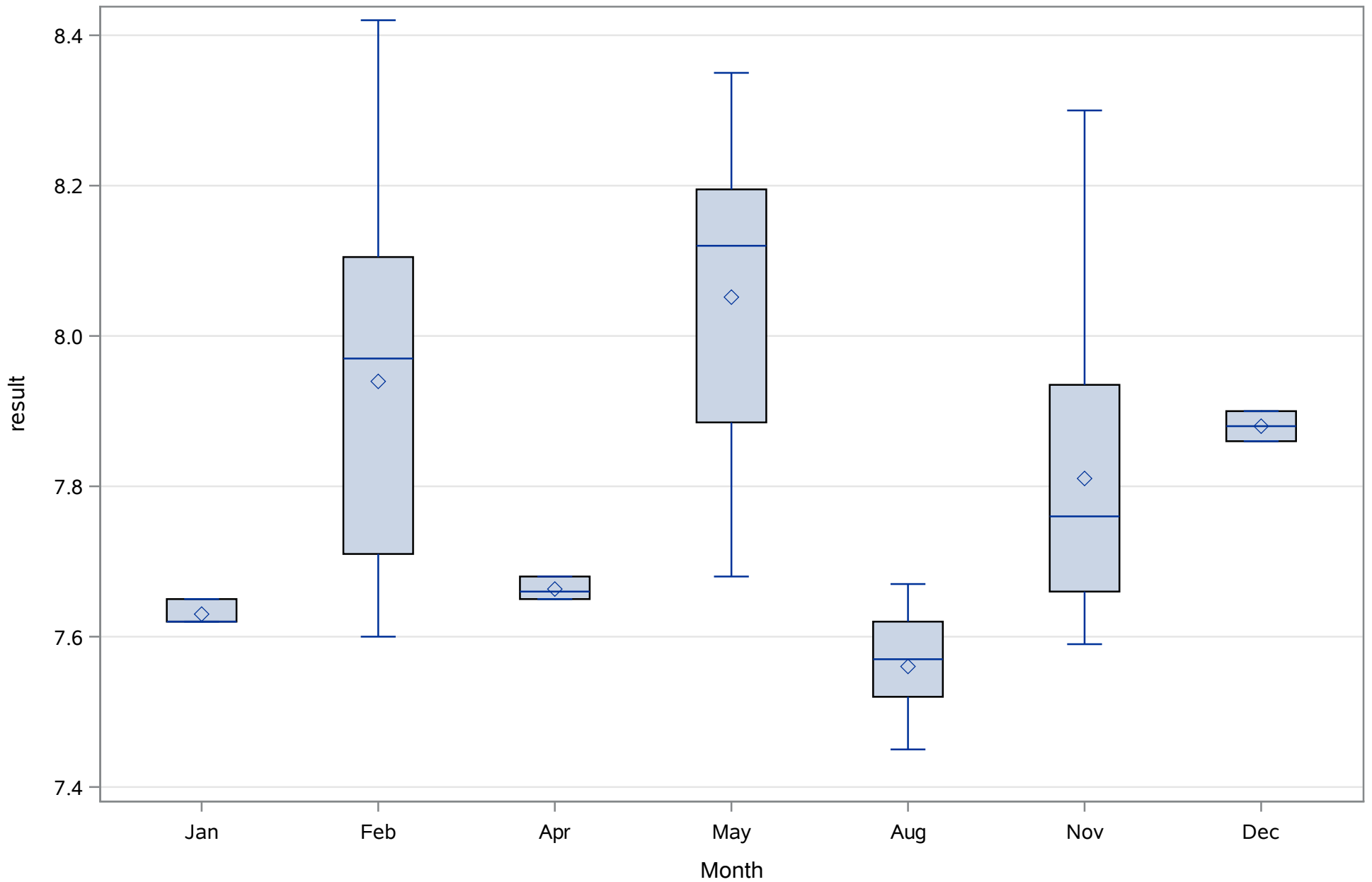
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 3
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	152.434783	Sum Observations	21036
Std Deviation	5.93634915	Variance	35.2402412
Skewness	0.21955819	Kurtosis	-0.8806163
Uncorrected SS	3211446	Corrected SS	4827.91304
Coeff Variation	3.8943534	Std Error Mean	0.5053356

Basic Statistical Measures			
Location		Variability	
Mean	152.4348	Std Deviation	5.93635
Median	151.0000	Variance	35.24024
Mode	149.0000	Range	23.00000
		Interquartile Range	9.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	301.6506	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	165
99%	165
95%	163
90%	162
75% Q3	157
50% Median	151
25% Q1	148
10%	145
5%	143
1%	142
0% Min	142

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
ALK_tot_mgL

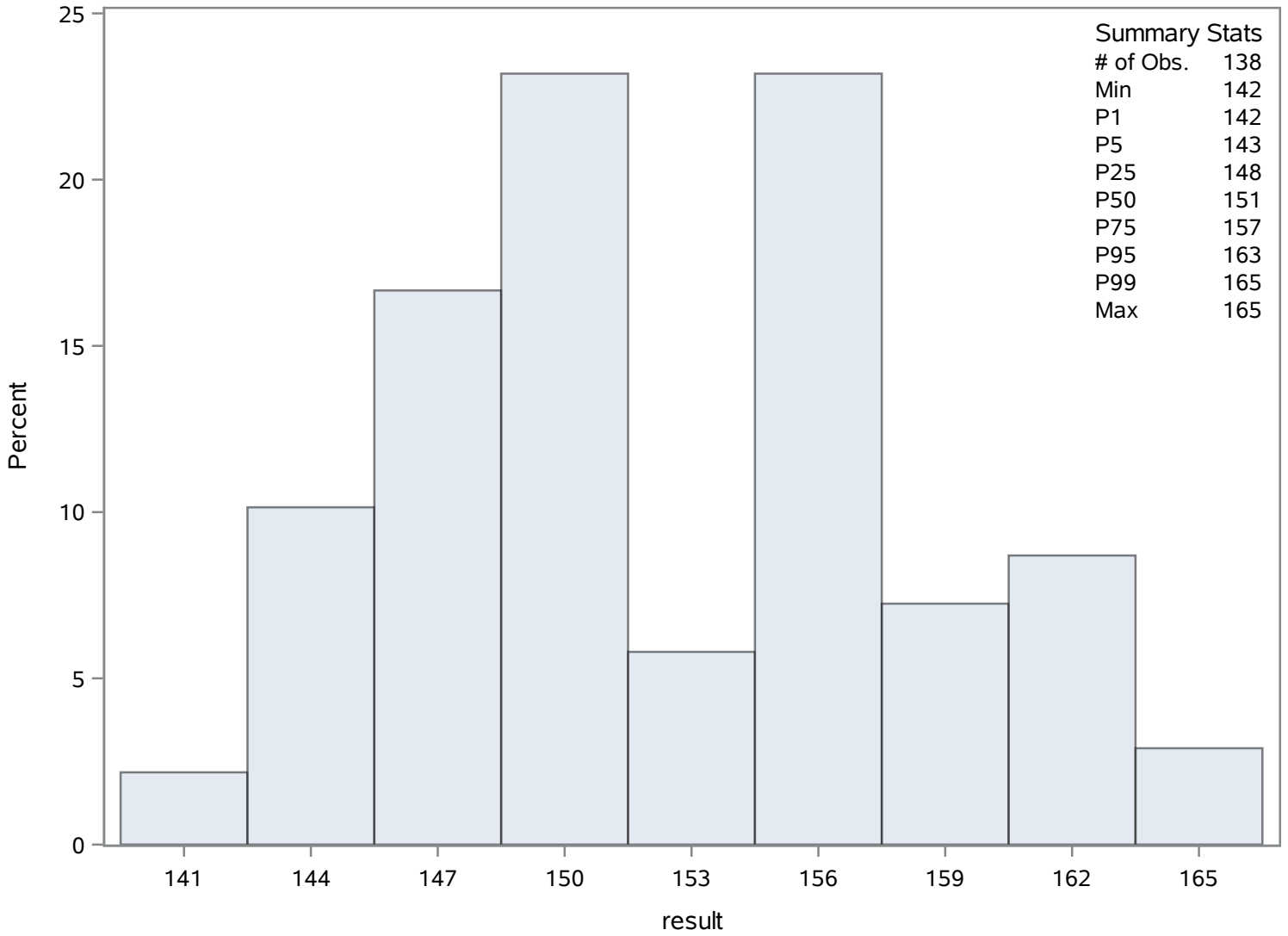
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
142	8	163	129
142	7	164	112
142	5	164	125
143	12	165	113
143	11	165	114

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	2.99538286	Sum Observations	413.362835
Std Deviation	2.19880318	Variance	4.83473543
Skewness	2.2938313	Kurtosis	7.90635734
Uncorrected SS	1900.53871	Corrected SS	662.358754
Coeff Variation	73.4064152	Std Error Mean	0.18717456

Basic Statistical Measures			
Location		Variability	
Mean	2.995383	Std Deviation	2.19880
Median	2.299425	Variance	4.83474
Mode	1.400000	Range	14.62000
		Interquartile Range	2.44000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.00315	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.080000
99%	11.000000
95%	6.712644
90%	5.400000
75% Q3	4.000000
50% Median	2.299425
25% Q1	1.560000
10%	1.100000
5%	0.873563
1%	0.500000
0% Min	0.460000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_Uncor_ugL

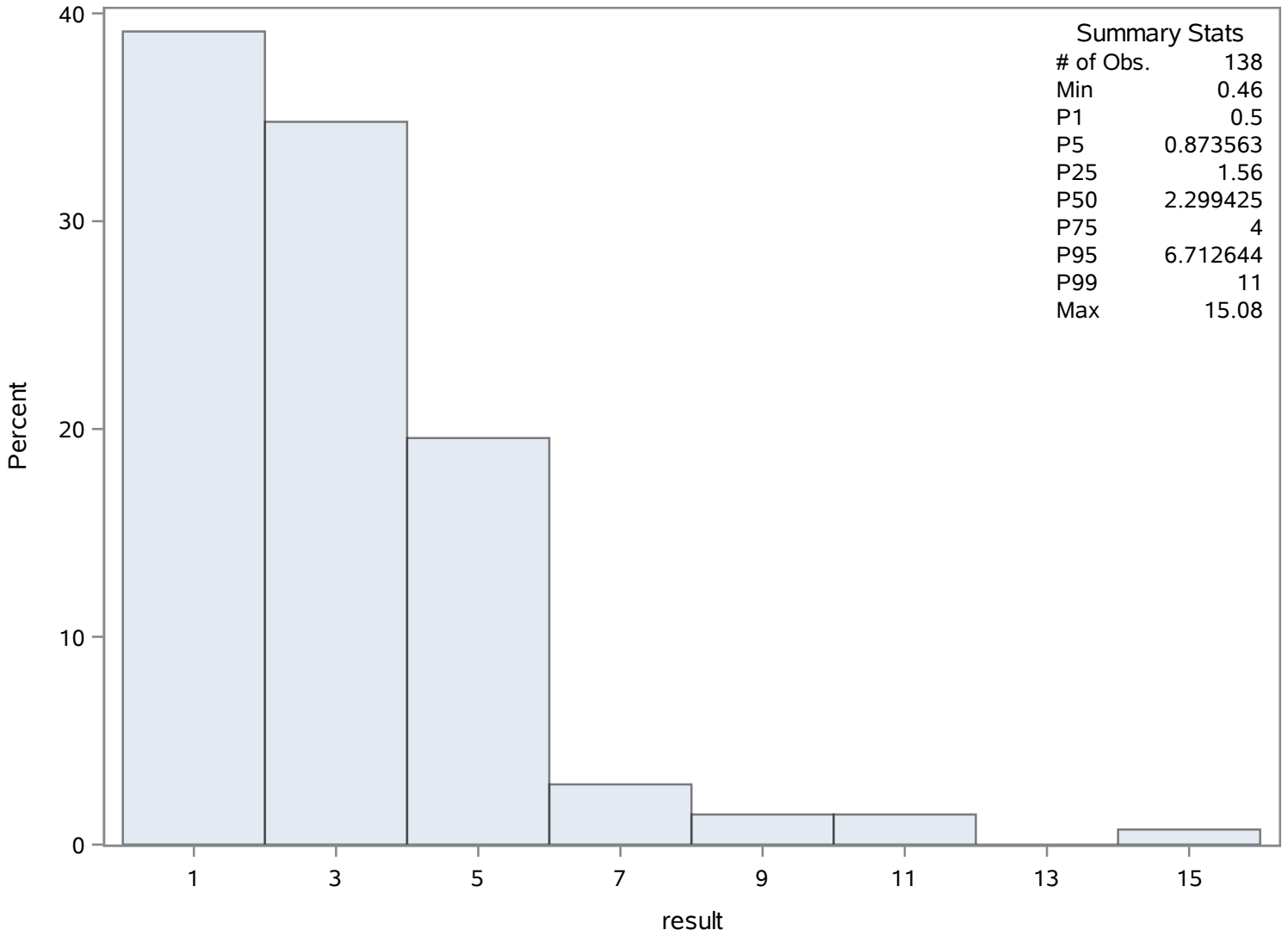
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.46	253	8.00000	163
0.50	206	9.93103	222
0.60	254	10.67000	270
0.60	207	11.00000	165
0.60	205	15.08000	246

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Summary Stats

# of Obs.	138
Min	0.46
P1	0.5
P5	0.873563
P25	1.56
P50	2.299425
P75	4
P95	6.712644
P99	11
Max	15.08

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	2.03445306	Sum Observations	146.48062
Std Deviation	2.04922757	Variance	4.19933362
Skewness	2.64908942	Kurtosis	9.81868097
Uncorrected SS	596.160632	Corrected SS	298.152687
Coeff Variation	100.726215	Std Error Mean	0.24150378

Basic Statistical Measures			
Location		Variability	
Mean	2.034453	Std Deviation	2.04923
Median	1.230000	Variance	4.19933
Mode	1.117240	Range	12.40000
		Interquartile Range	1.92569

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.424104	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.620000
99%	12.620000
95%	5.809648
90%	4.250000
75% Q3	2.735688
50% Median	1.230000
25% Q1	0.809999
10%	0.446896
5%	0.340000
1%	0.220000
0% Min	0.220000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_cor_ugl

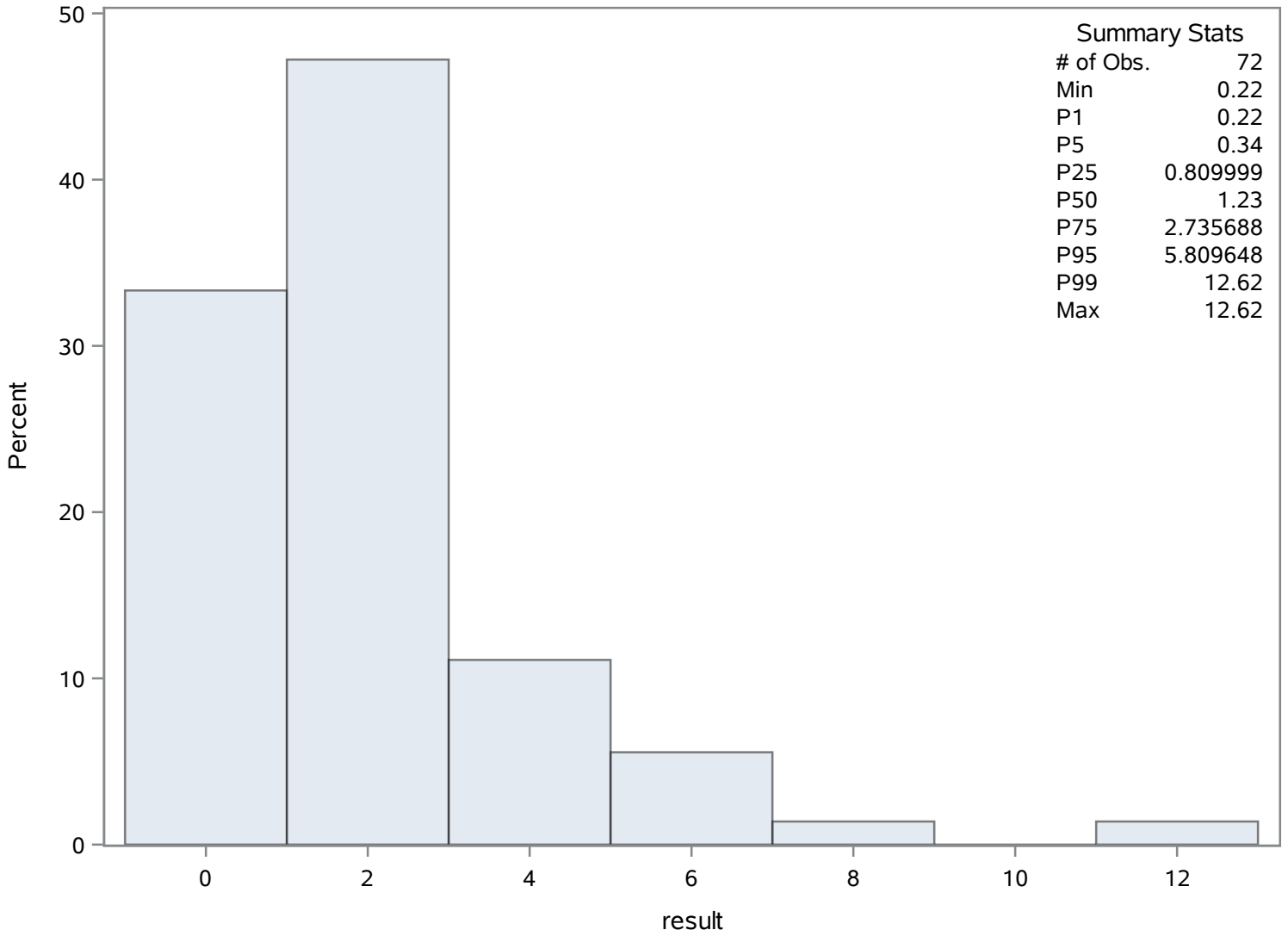
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.22000	325	5.36000	329
0.27931	312	5.80965	305
0.27931	311	6.70344	294
0.34000	338	7.93000	342
0.34000	337	12.62000	318

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	5.65217391	Sum Observations	780
Std Deviation	6.50508187	Variance	42.3160901
Skewness	4.97788858	Kurtosis	28.0196732
Uncorrected SS	10206	Corrected SS	5797.30435
Coeff Variation	115.08991	Std Error Mean	0.55374934

Basic Statistical Measures			
Location		Variability	
Mean	5.652174	Std Deviation	6.50508
Median	4.000000	Variance	42.31609
Mode	2.000000	Range	45.00000
		Interquartile Range	3.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.2071	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	47
99%	45
95%	12
90%	9
75% Q3	6
50% Median	4
25% Q1	3
10%	2
5%	2
1%	2
0% Min	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
COLOR_PtCo

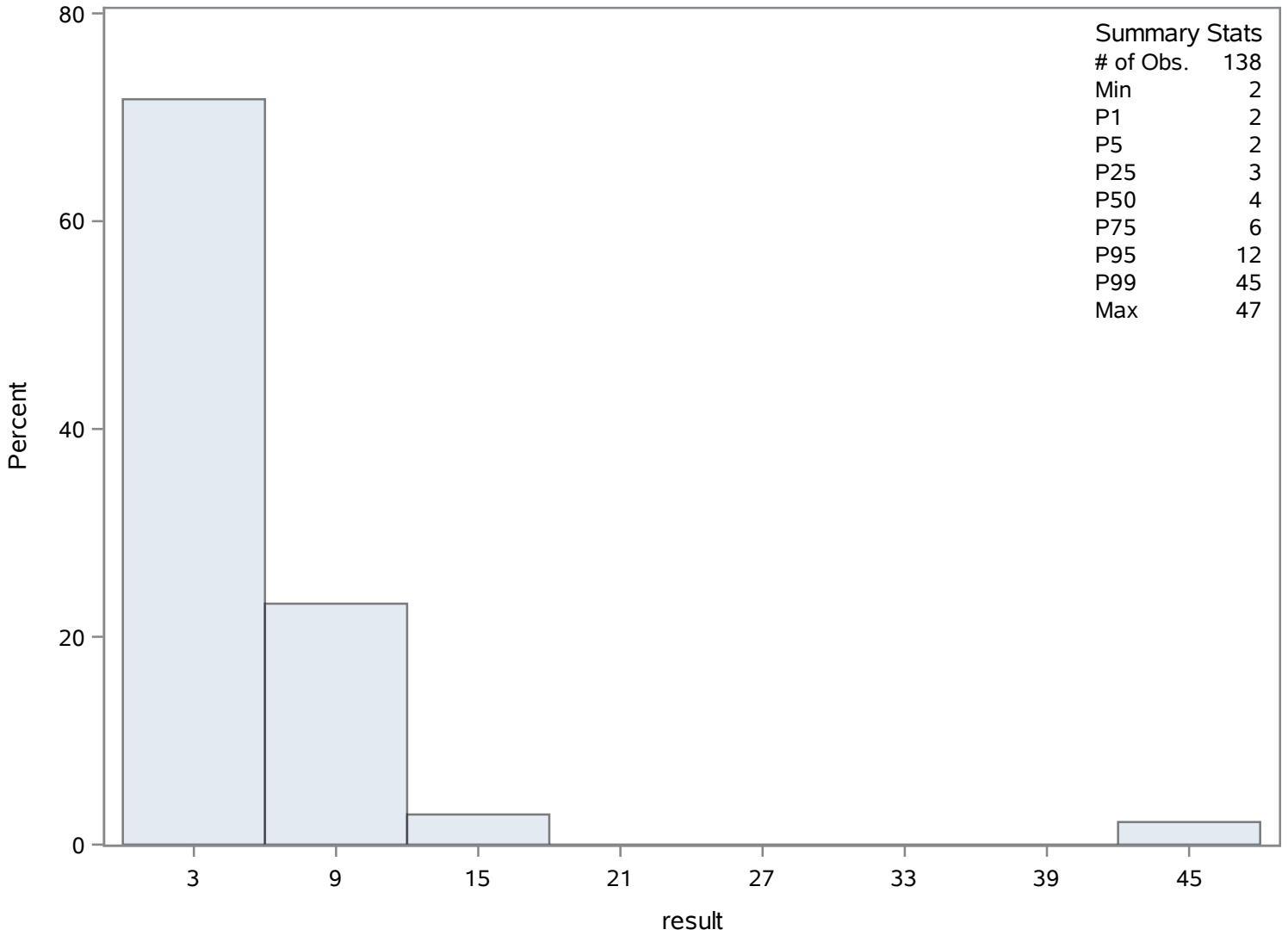
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	480	13	413
2	479	17	388
2	478	43	483
2	476	45	482
2	475	47	481

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.77253623	Sum Observations	1072.61
Std Deviation	2.28575853	Variance	5.22469206
Skewness	0.54315798	Kurtosis	0.97834646
Uncorrected SS	9052.6829	Corrected SS	715.782812
Coeff Variation	29.4081425	Std Error Mean	0.19457669

Basic Statistical Measures			
Location		Variability	
Mean	7.772536	Std Deviation	2.28576
Median	7.475000	Variance	5.22469
Mode	7.400000	Range	11.95000
		Interquartile Range	2.41000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	39.94588	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.950
99%	14.300
95%	12.100
90%	11.300
75% Q3	8.930
50% Median	7.475
25% Q1	6.520
10%	4.560
5%	4.100
1%	3.100
0% Min	3.000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
DO_mgL

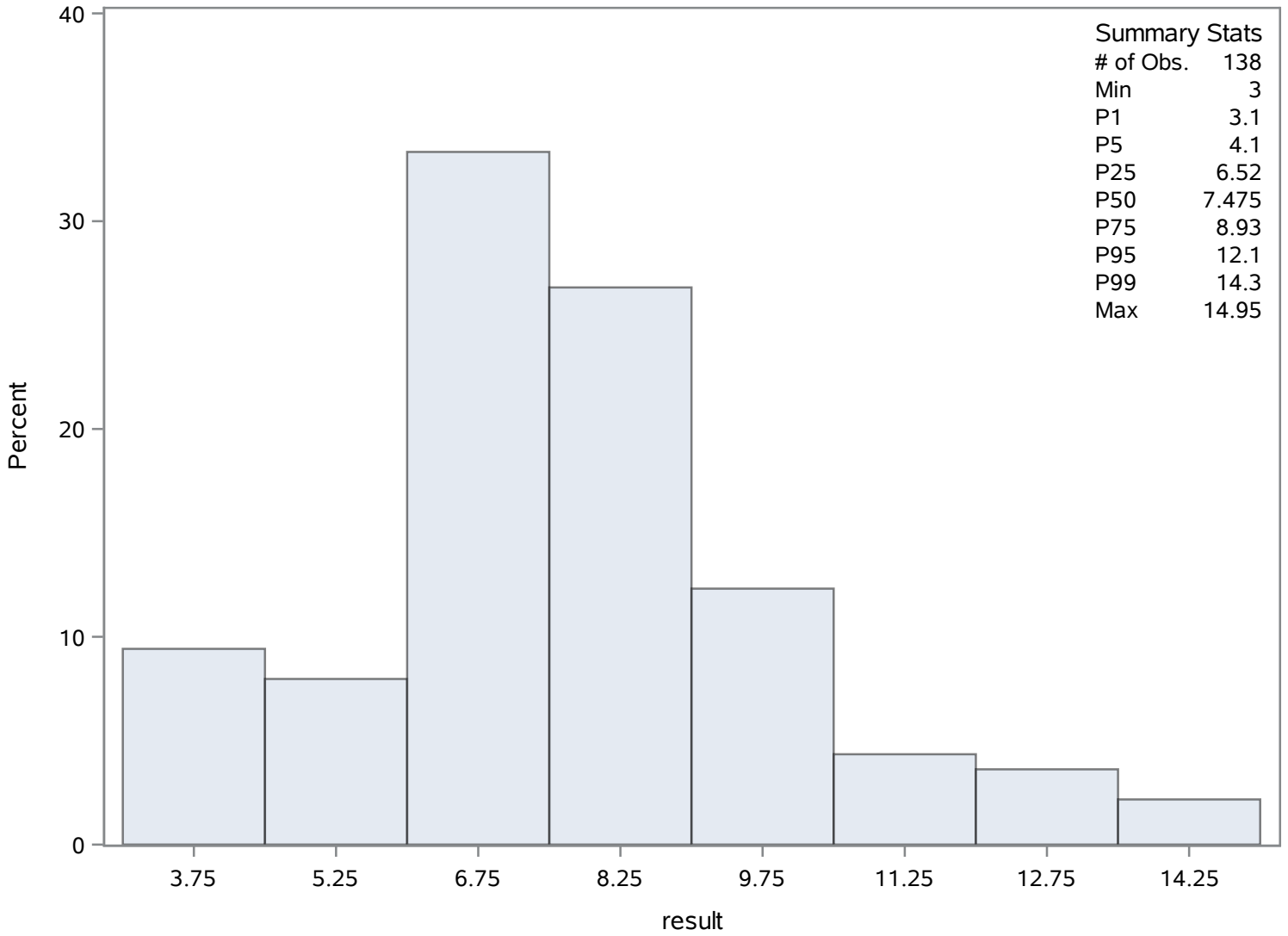
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.0	516	13.20	511
3.1	515	13.42	579
3.2	514	14.06	581
3.3	501	14.30	582
3.4	499	14.95	580

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	22.734058	Sum Observations	3137.3
Std Deviation	12.9568993	Variance	167.88124
Skewness	0.80805714	Kurtosis	1.01173366
Uncorrected SS	94323.29	Corrected SS	22999.7299
Coeff Variation	56.9933417	Std Error Mean	1.10296452

Basic Statistical Measures			
Location		Variability	
Mean	22.73406	Std Deviation	12.95690
Median	22.00000	Variance	167.88124
Mode	21.00000	Range	67.00000
		Interquartile Range	16.00000

Note: The mode displayed is the smallest of 2 modes with a count of 10.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.61178	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	68
99%	60
95%	50
90%	41
75% Q3	29
50% Median	22
25% Q1	13
10%	7
5%	3

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NH4_ugl

The UNIVARIATE Procedure
Variable: result

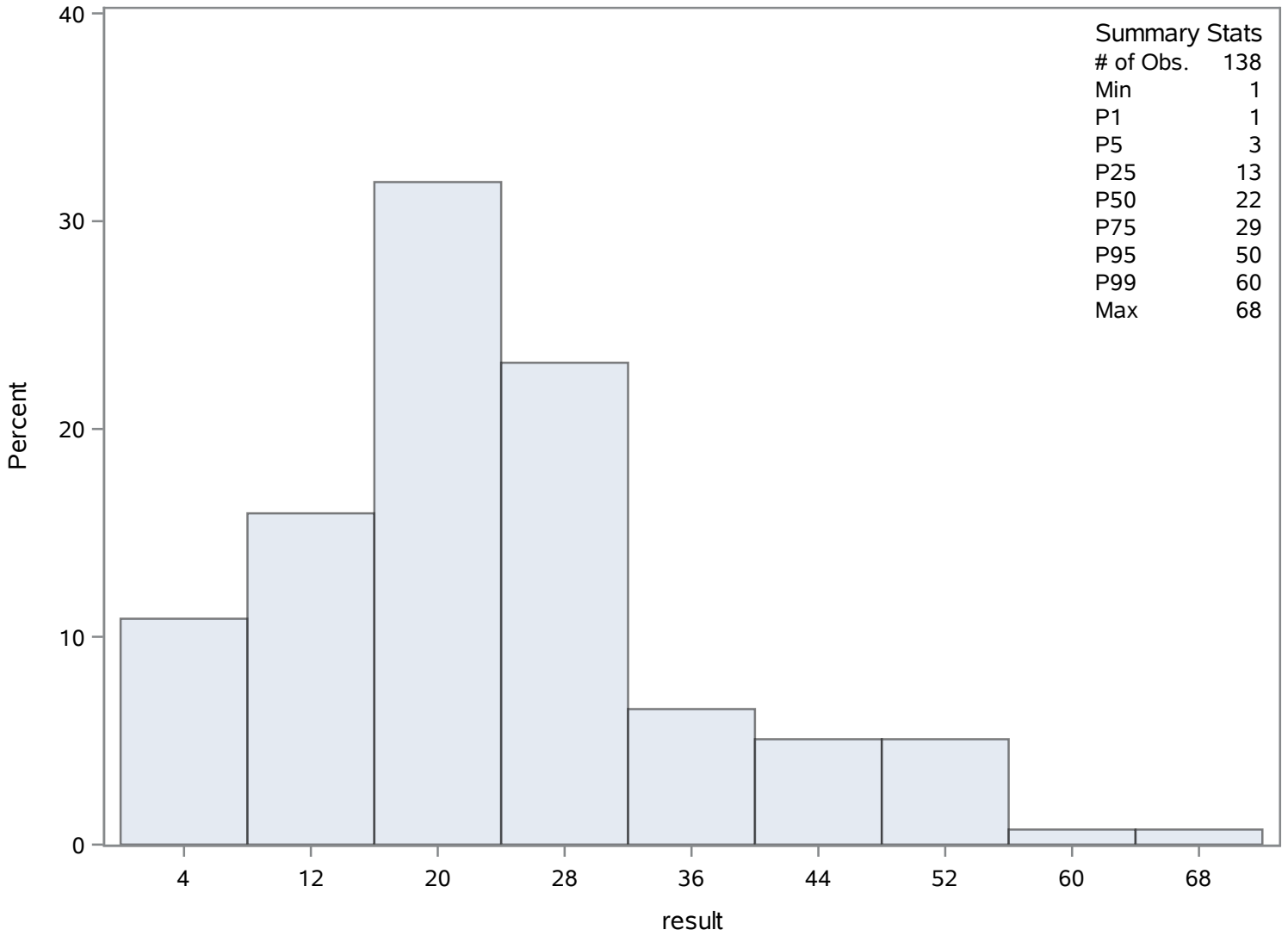
Quantiles (Definition 5)	
Level	Quantile
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	690	53	691
1	638	54	665
2	672	55	663
2	670	60	692
2	646	68	719

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	397.626812	Sum Observations	54872.5
Std Deviation	103.571694	Variance	10727.0957
Skewness	-0.714262	Kurtosis	0.40904308
Uncorrected SS	23288389.3	Corrected SS	1469612.11
Coeff Variation	26.0474622	Std Error Mean	8.81660805

Basic Statistical Measures			
Location		Variability	
Mean	397.6268	Std Deviation	103.57169
Median	415.7500	Variance	10727
Mode	410.0000	Range	588.00000
		Interquartile Range	151.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	45.09975	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	619.00
99%	590.00
95%	533.00
90%	510.00
75% Q3	475.00
50% Median	415.75
25% Q1	324.00
10%	249.00
5%	202.00
1%	136.00
0% Min	31.00

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NO3_ugL

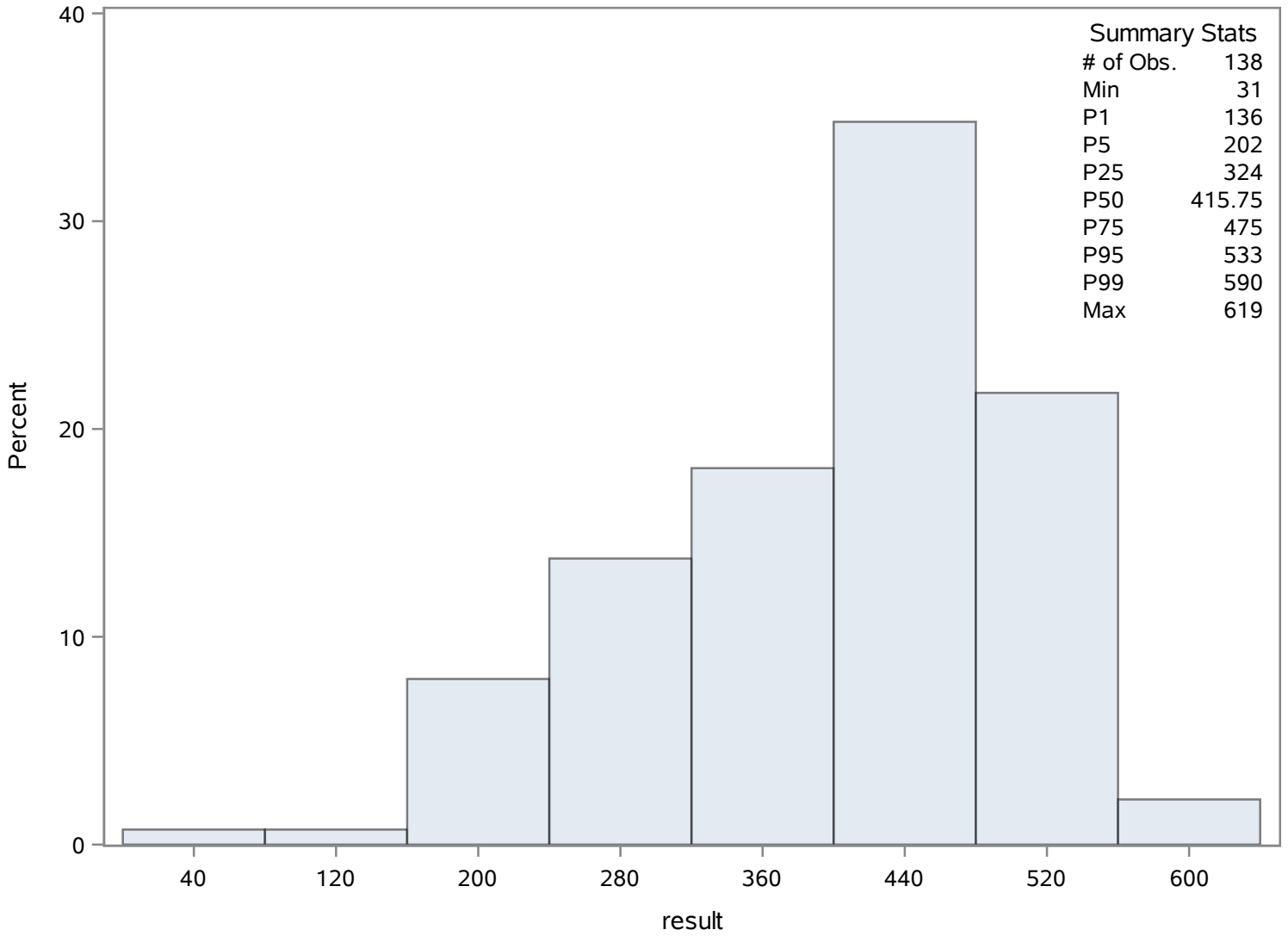
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
31	789	544	847
136	788	553	867
162	787	571	873
168	846	590	872
199	844	619	871

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	2.22724638	Sum Observations	307.36
Std Deviation	0.67357502	Variance	0.45370331
Skewness	0.63464539	Kurtosis	0.68809736
Uncorrected SS	746.7238	Corrected SS	62.1573536
Coeff Variation	30.2425017	Std Error Mean	0.05733851

Basic Statistical Measures			
Location		Variability	
Mean	2.227246	Std Deviation	0.67358
Median	2.200000	Variance	0.45370
Mode	1.400000	Range	3.83000
		Interquartile Range	0.86000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	38.84381	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.70
99%	4.07
95%	3.37
90%	3.15
75% Q3	2.61
50% Median	2.20
25% Q1	1.75
10%	1.39
5%	1.29

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SAL_Perc

The UNIVARIATE Procedure
Variable: result

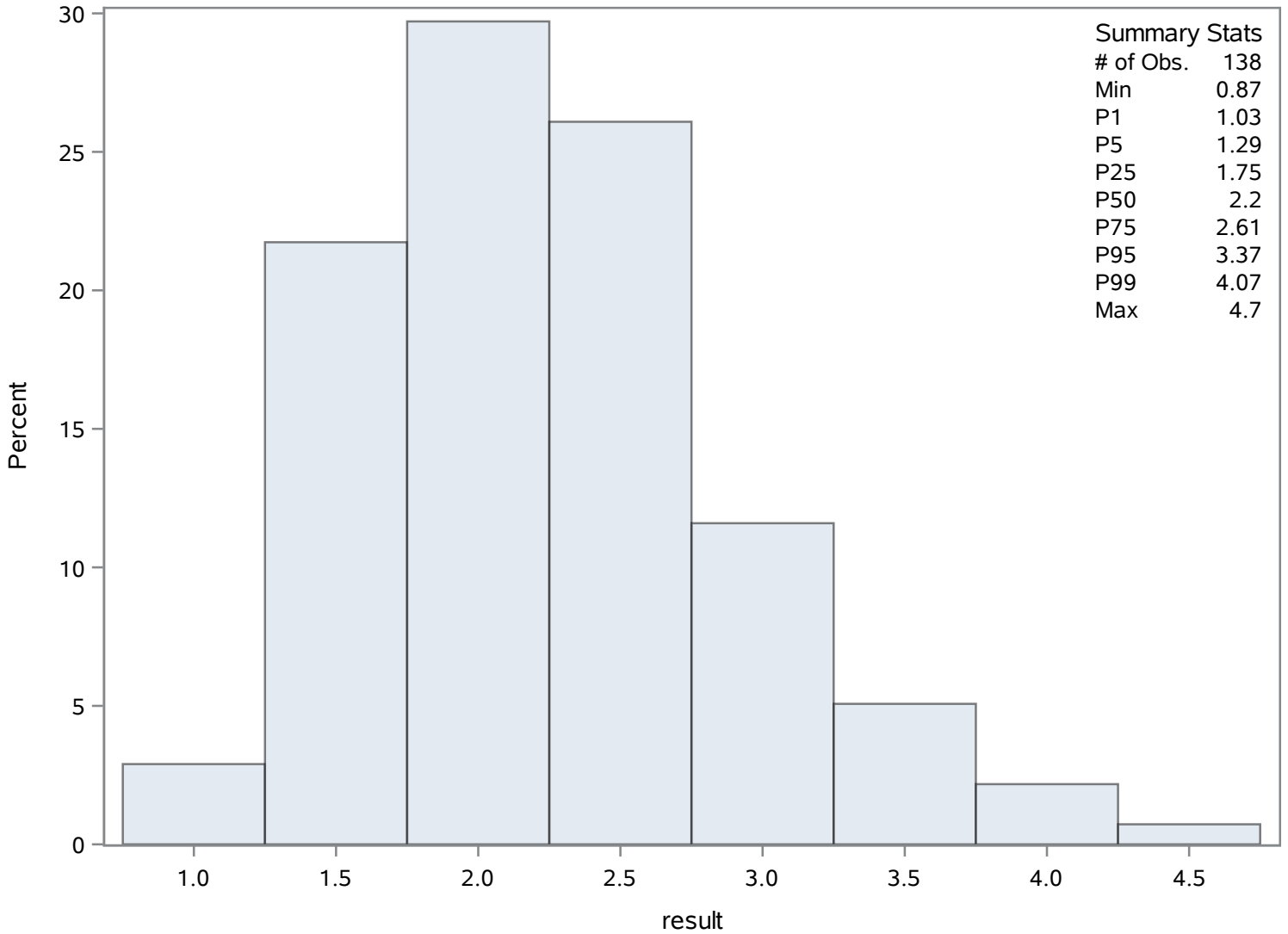
Quantiles (Definition 5)	
Level	Quantile
1%	1.03
0% Min	0.87

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.87	960	3.55	1006
1.03	957	3.78	987
1.04	958	3.82	986
1.13	955	4.07	985
1.28	972	4.70	1038

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.17849275	Sum Observations	576.632
Std Deviation	1.19724117	Variance	1.43338643
Skewness	0.55768473	Kurtosis	0.54132956
Uncorrected SS	2605.82657	Corrected SS	196.37394
Coeff Variation	28.652465	Std Error Mean	0.10191594

Basic Statistical Measures			
Location		Variability	
Mean	4.178493	Std Deviation	1.19724
Median	4.158500	Variance	1.43339
Mode	3.300000	Range	6.73200
		Interquartile Range	1.55900

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	40.9994	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.4520
99%	7.3450
95%	6.1890
90%	5.7670
75% Q3	4.8690
50% Median	4.1585
25% Q1	3.3100
10%	2.6600
5%	2.4800

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

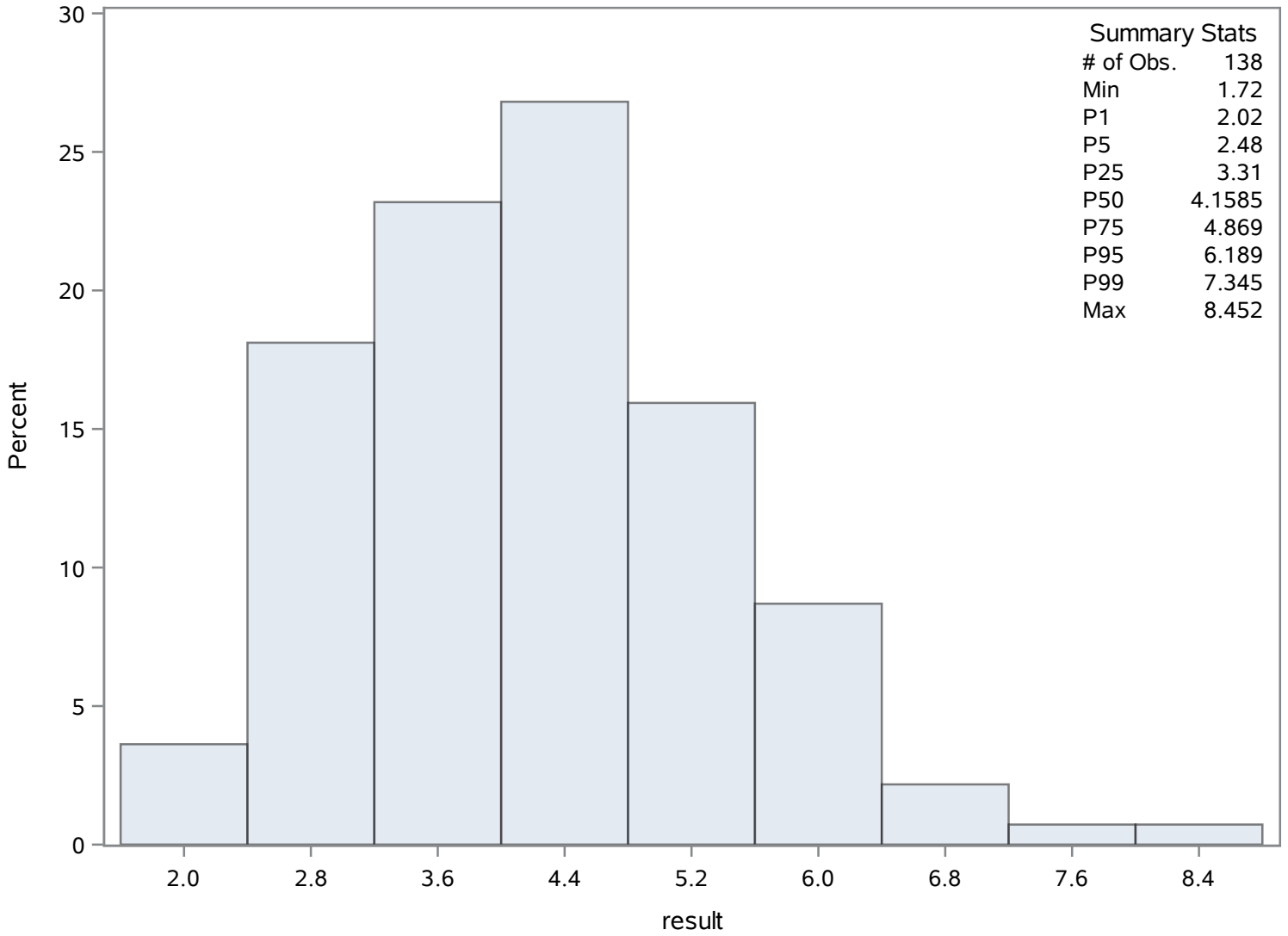
Quantiles (Definition 5)	
Level	Quantile
1%	2.0200
0% Min	1.7200

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.72	1098	6.435	1144
2.02	1095	7.055	1125
2.13	1096	7.131	1124
2.18	1093	7.345	1123
2.39	1085	8.452	1176

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	11.7481481	Sum Observations	1586
Std Deviation	3.20381889	Variance	10.2644555
Skewness	-0.4451649	Kurtosis	-0.3843962
Uncorrected SS	20008	Corrected SS	1375.43704
Coeff Variation	27.2708418	Std Error Mean	0.27574083

Basic Statistical Measures			
Location		Variability	
Mean	11.74815	Std Deviation	3.20382
Median	12.00000	Variance	10.26446
Mode	15.00000	Range	15.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	42.60576	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	19
99%	18
95%	16
90%	15
75% Q3	14
50% Median	12
25% Q1	10
10%	7
5%	6
1%	4
0% Min	4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SRP_ugL

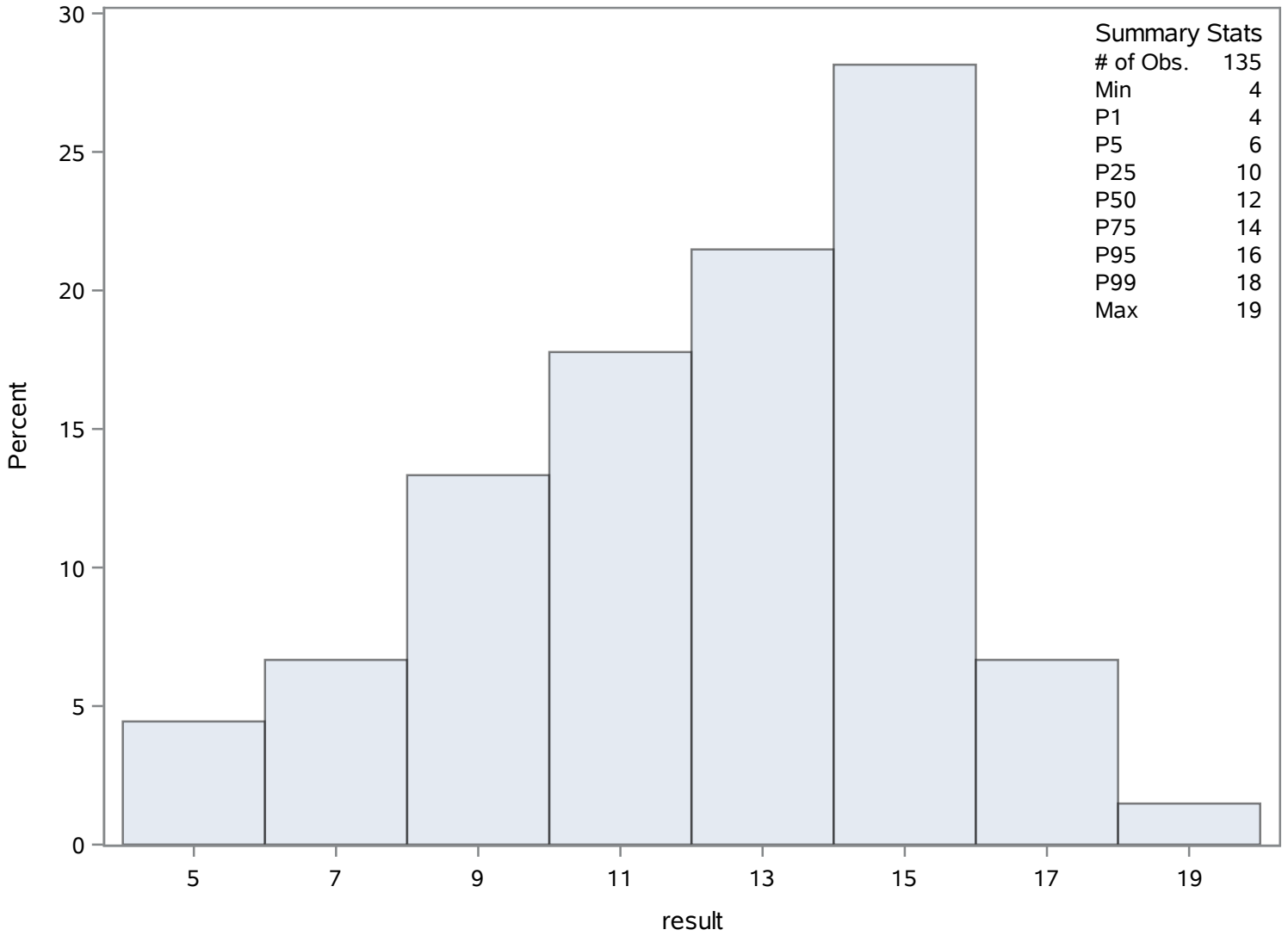
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	1275	16	1298
4	1268	16	1302
4	1267	17	1240
5	1269	18	1241
5	1257	19	1242

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.5869565	Sum Observations	3255
Std Deviation	1.59205079	Variance	2.53462571
Skewness	0.0184432	Kurtosis	-0.6978376
Uncorrected SS	77122.7872	Corrected SS	347.243722
Coeff Variation	6.7497084	Std Error Mean	0.13552436

Basic Statistical Measures			
Location		Variability	
Mean	23.58696	Std Deviation	1.59205
Median	23.50500	Variance	2.53463
Mode	23.80000	Range	6.50000
		Interquartile Range	2.36000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	174.0422	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.400
99%	26.400
95%	26.190
90%	26.000
75% Q3	24.790
50% Median	23.505
25% Q1	22.430
10%	21.450
5%	21.000
1%	20.100
0% Min	19.900

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TEMP_C

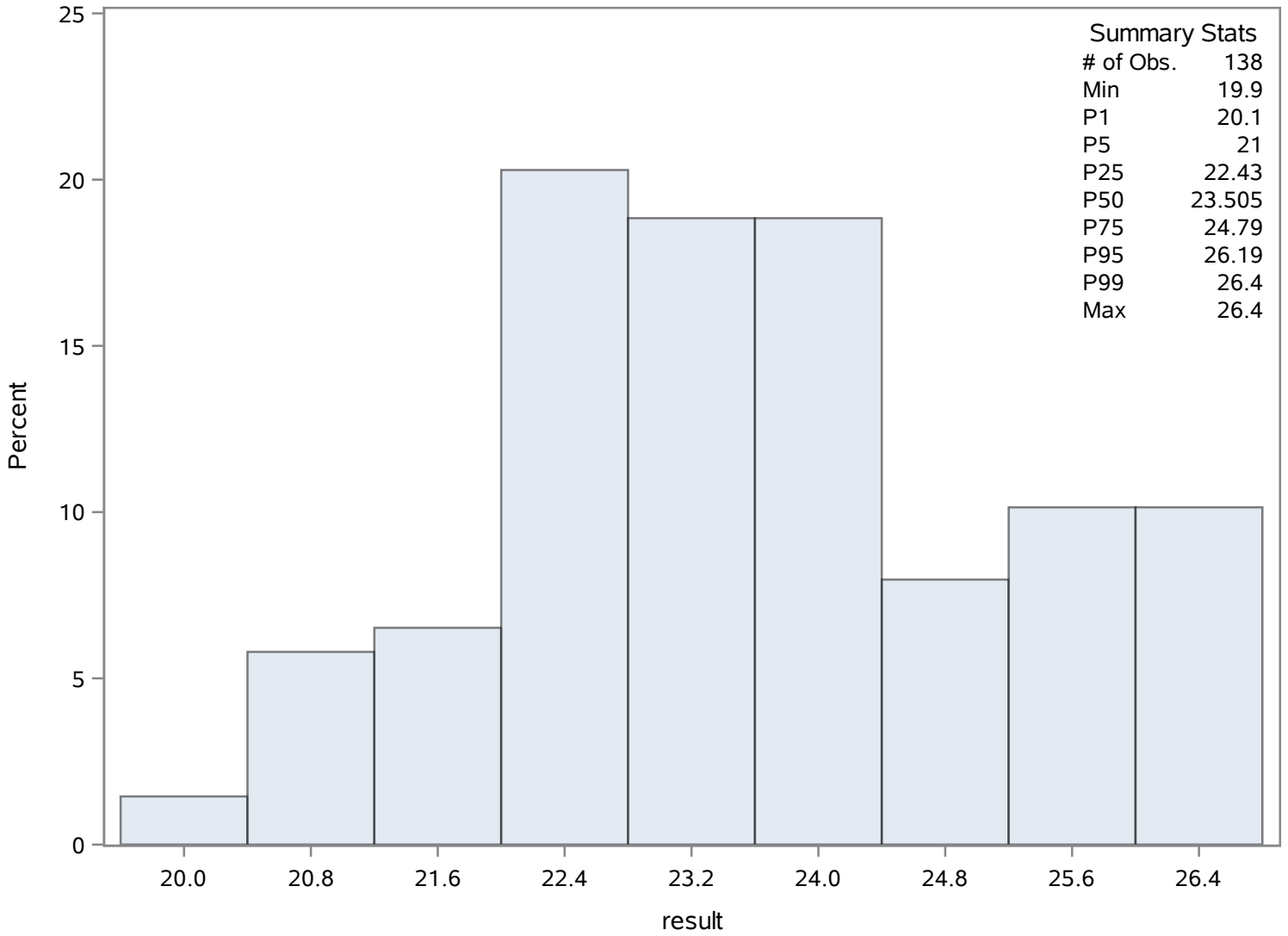
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19.90	1342	26.30	1338
20.10	1343	26.34	1405
20.40	1344	26.40	1315
20.69	1380	26.40	1336
20.70	1323	26.40	1337

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	496.130435	Sum Observations	68466
Std Deviation	128.147259	Variance	16421.7201
Skewness	1.49595992	Kurtosis	7.31755177
Uncorrected SS	36217842	Corrected SS	2249775.65
Coeff Variation	25.8293486	Std Error Mean	10.9086191

Basic Statistical Measures			
Location		Variability	
Mean	496.1304	Std Deviation	128.14726
Median	484.5000	Variance	16422
Mode	440.0000	Range	1000
		Interquartile Range	140.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	45.48059	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1240.0
99%	760.0
95%	692.0
90%	650.0
75% Q3	560.0
50% Median	484.5
25% Q1	420.0
10%	360.0
5%	320.0
1%	240.0
0% Min	240.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TN_ugl

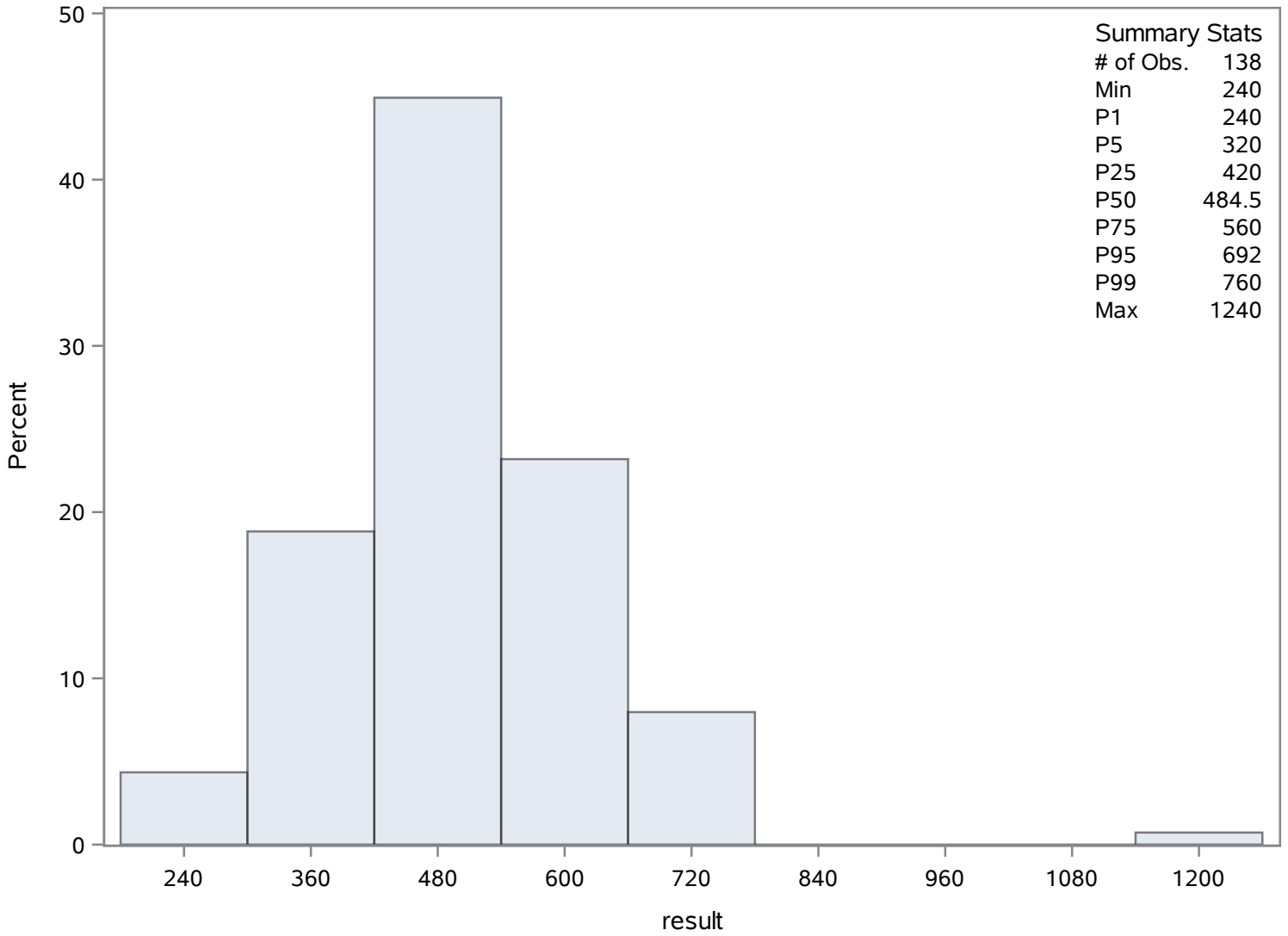
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
240	1474	750	1509
240	1463	750	1554
260	1476	750	1573
260	1475	760	1584
260	1464	1240	1559

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	19.442029	Sum Observations	2683
Std Deviation	6.23390554	Variance	38.8615783
Skewness	4.49726542	Kurtosis	30.8352117
Uncorrected SS	57487	Corrected SS	5324.03623
Coeff Variation	32.0640688	Std Error Mean	0.53066528

Basic Statistical Measures			
Location		Variability	
Mean	19.44203	Std Deviation	6.23391
Median	18.00000	Variance	38.86158
Mode	18.00000	Range	58.00000
		Interquartile Range	5.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	36.63708	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	69
99%	45
95%	27
90%	23
75% Q3	21
50% Median	18
25% Q1	16
10%	14
5%	14
1%	12
0% Min	11

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TP_ugl

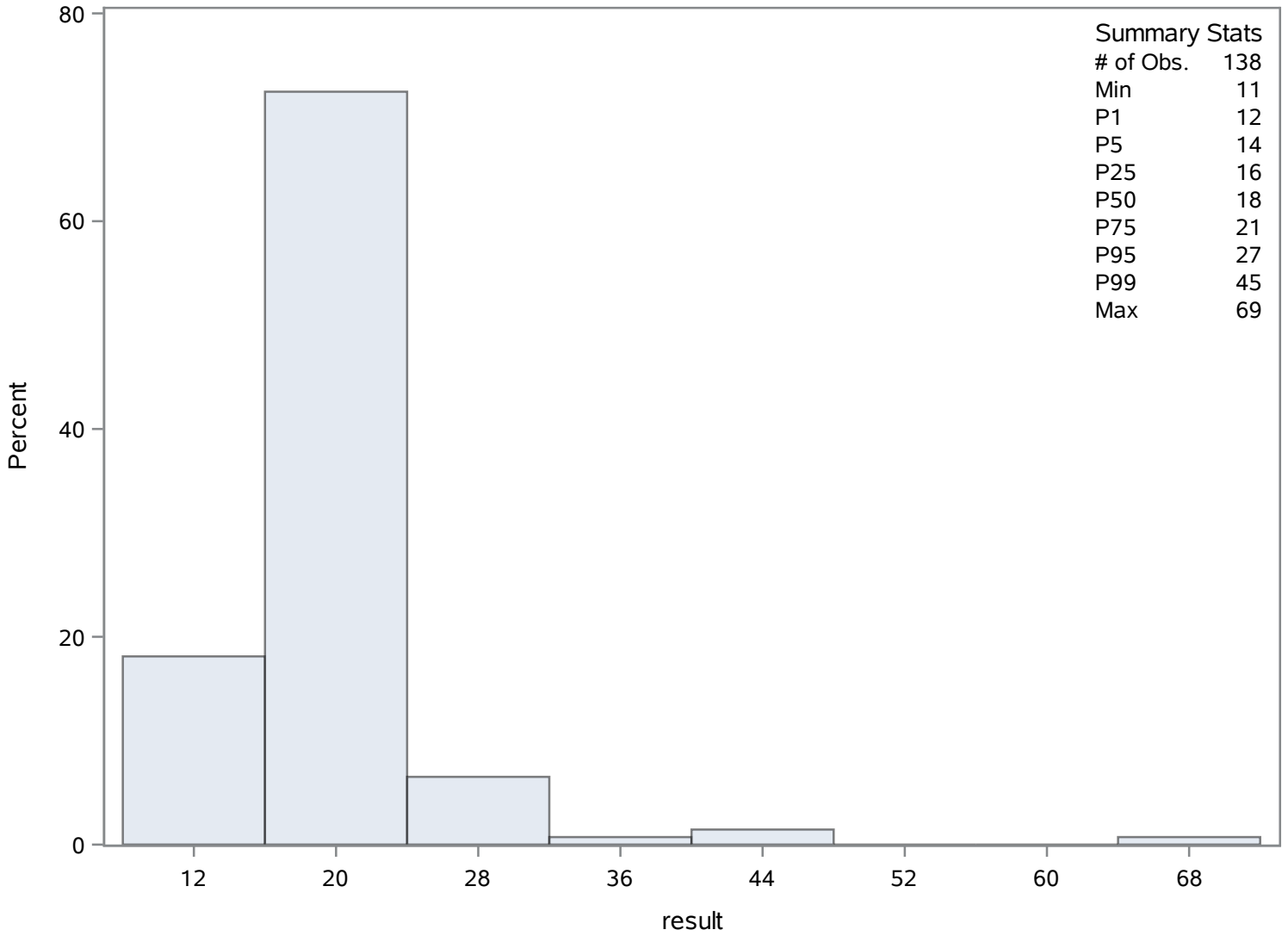
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11	1707	29	1692
12	1625	32	1654
13	1682	40	1629
13	1681	45	1656
13	1632	69	1697

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: UF 5 Rivers Study

Transect 4

pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.79222222	Sum Observations	841.56
Std Deviation	0.2550768	Variance	0.06506417
Skewness	0.44599982	Kurtosis	-0.6813454
Uncorrected SS	6564.5844	Corrected SS	6.96186667
Coeff Variation	3.27347955	Std Error Mean	0.02454478

Basic Statistical Measures			
Location		Variability	
Mean	7.792222	Std Deviation	0.25508
Median	7.750000	Variance	0.06506
Mode	7.440000	Range	1.09000
		Interquartile Range	0.40500

Note: The mode displayed is the smallest of 3 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	317.4697	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.390
99%	8.360
95%	8.250
90%	8.180
75% Q3	7.985
50% Median	7.750
25% Q1	7.580
10%	7.480
5%	7.440

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Field

The UNIVARIATE Procedure
Variable: result

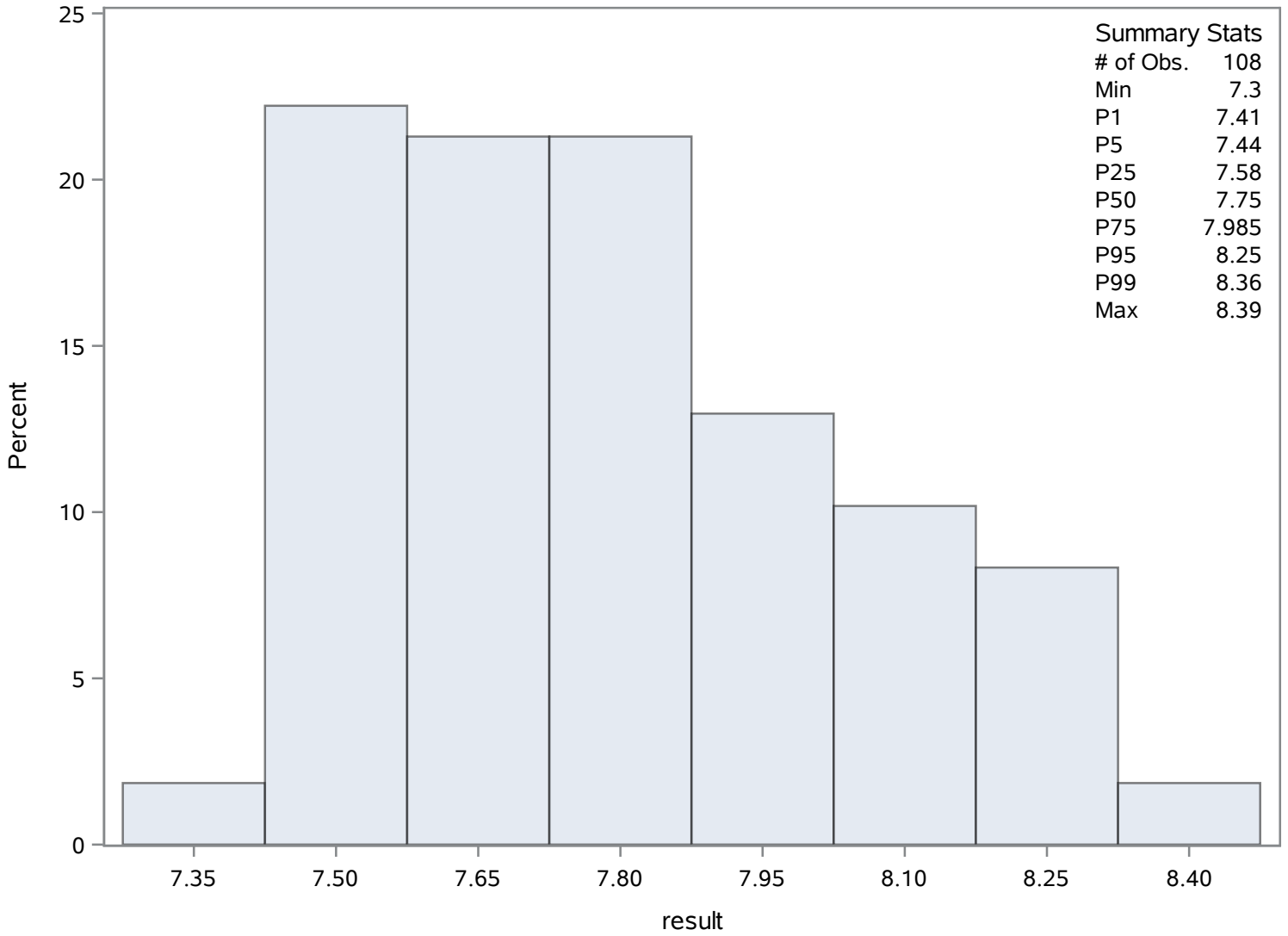
Quantiles (Definition 5)	
Level	Quantile
1%	7.410
0% Min	7.300

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.30	1792	8.29	1789
7.41	1793	8.30	1791
7.44	1829	8.31	1788
7.44	1828	8.36	1831
7.44	1794	8.39	1786

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.90942029	Sum Observations	1091.5
Std Deviation	0.2320608	Variance	0.05385222
Skewness	0.78729504	Kurtosis	0.62704234
Uncorrected SS	8640.51	Corrected SS	7.37775362
Coeff Variation	2.93397992	Std Error Mean	0.01975433

Basic Statistical Measures			
Location		Variability	
Mean	7.909420	Std Deviation	0.23206
Median	7.900000	Variance	0.05385
Mode	7.900000	Range	1.10000
		Interquartile Range	0.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	400.3892	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.6
99%	8.6
95%	8.4
90%	8.2
75% Q3	8.0
50% Median	7.9
25% Q1	7.7
10%	7.7
5%	7.6
1%	7.5
0% Min	7.5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Lab

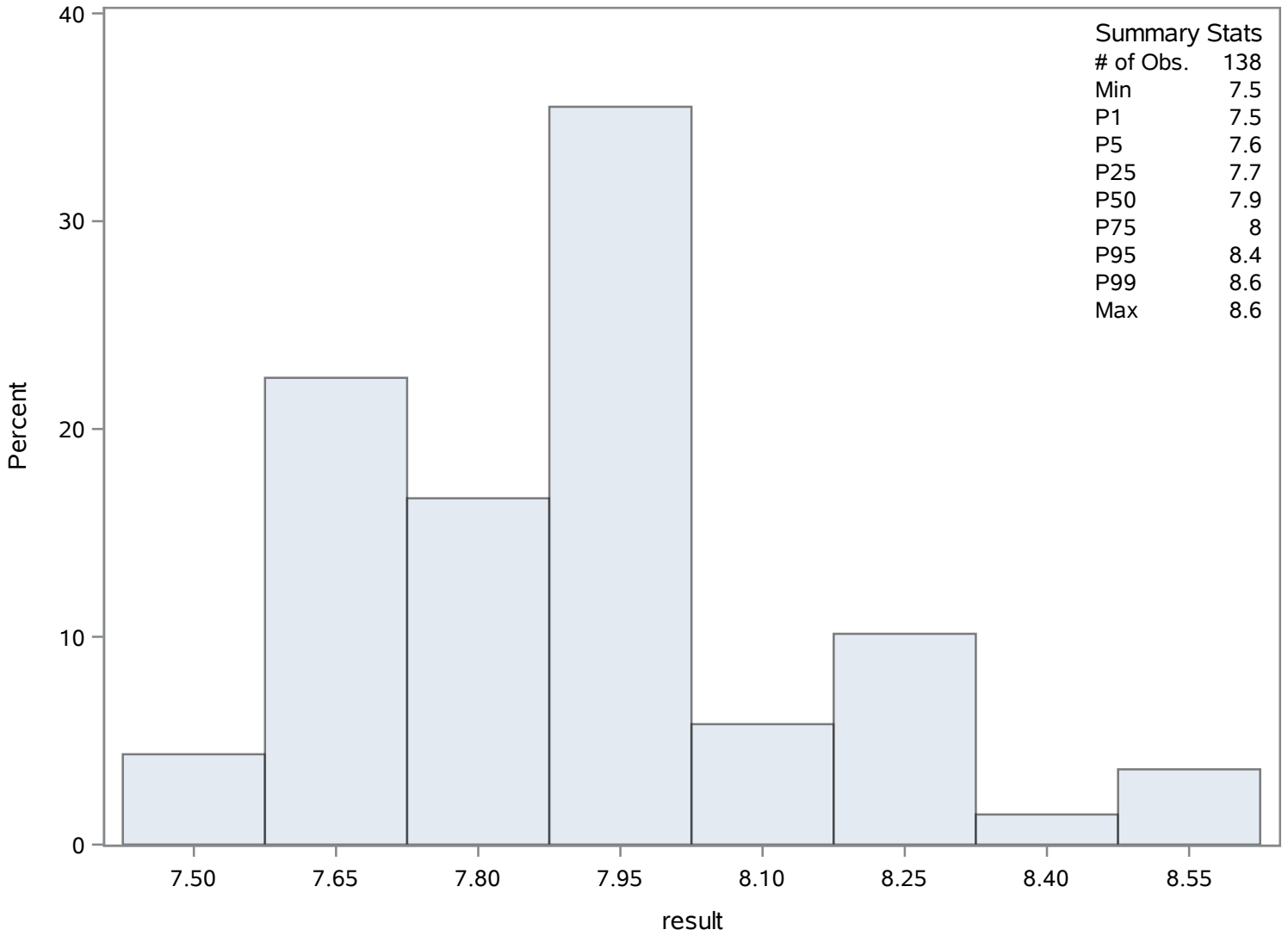
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.5	1968	8.5	1859
7.5	1967	8.5	1927
7.5	1966	8.5	1929
7.5	1863	8.6	1858
7.5	1862	8.6	1928

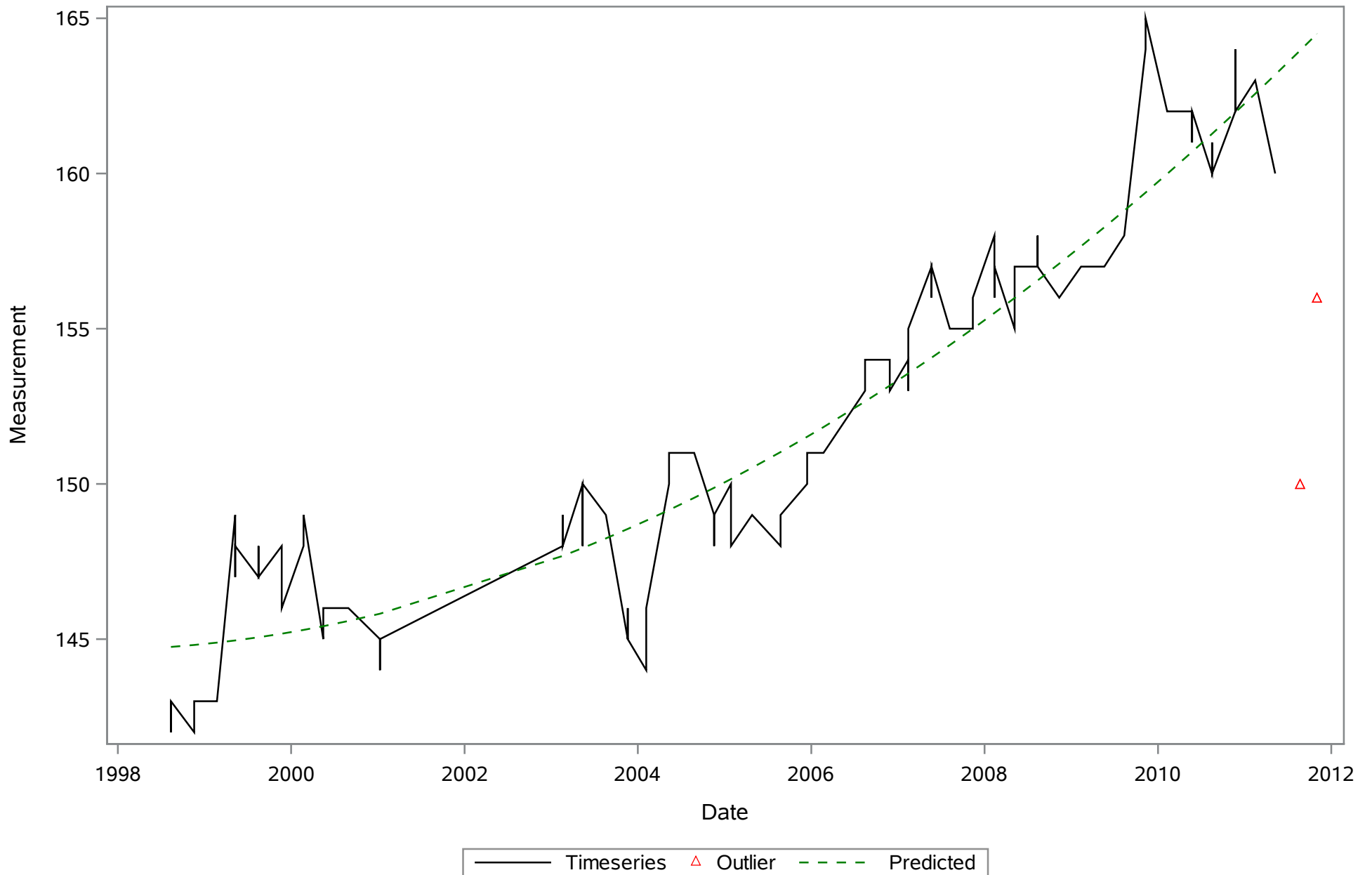
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Lab

The UNIVARIATE Procedure

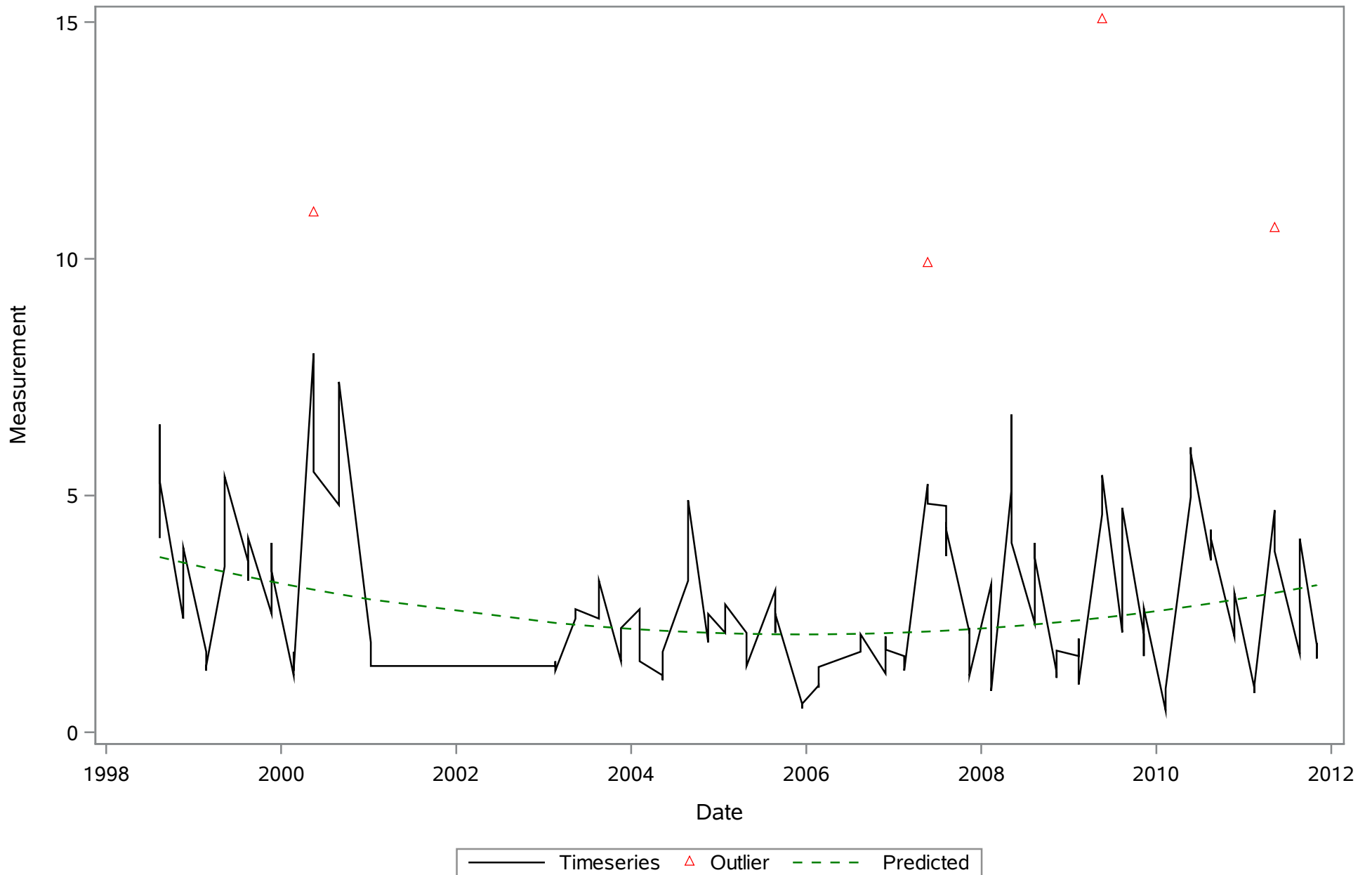
Distribution of result



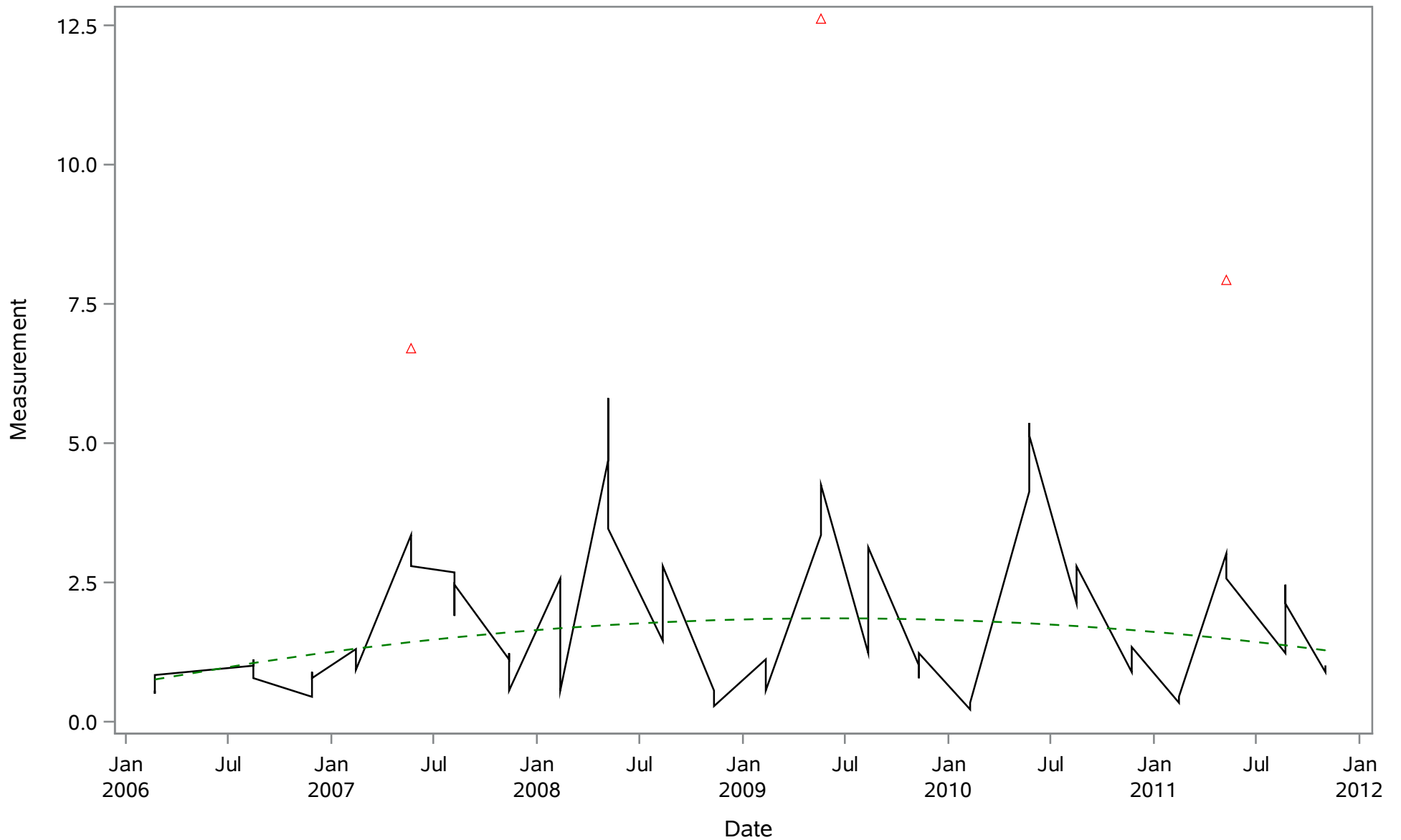
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_Uncor_ugL

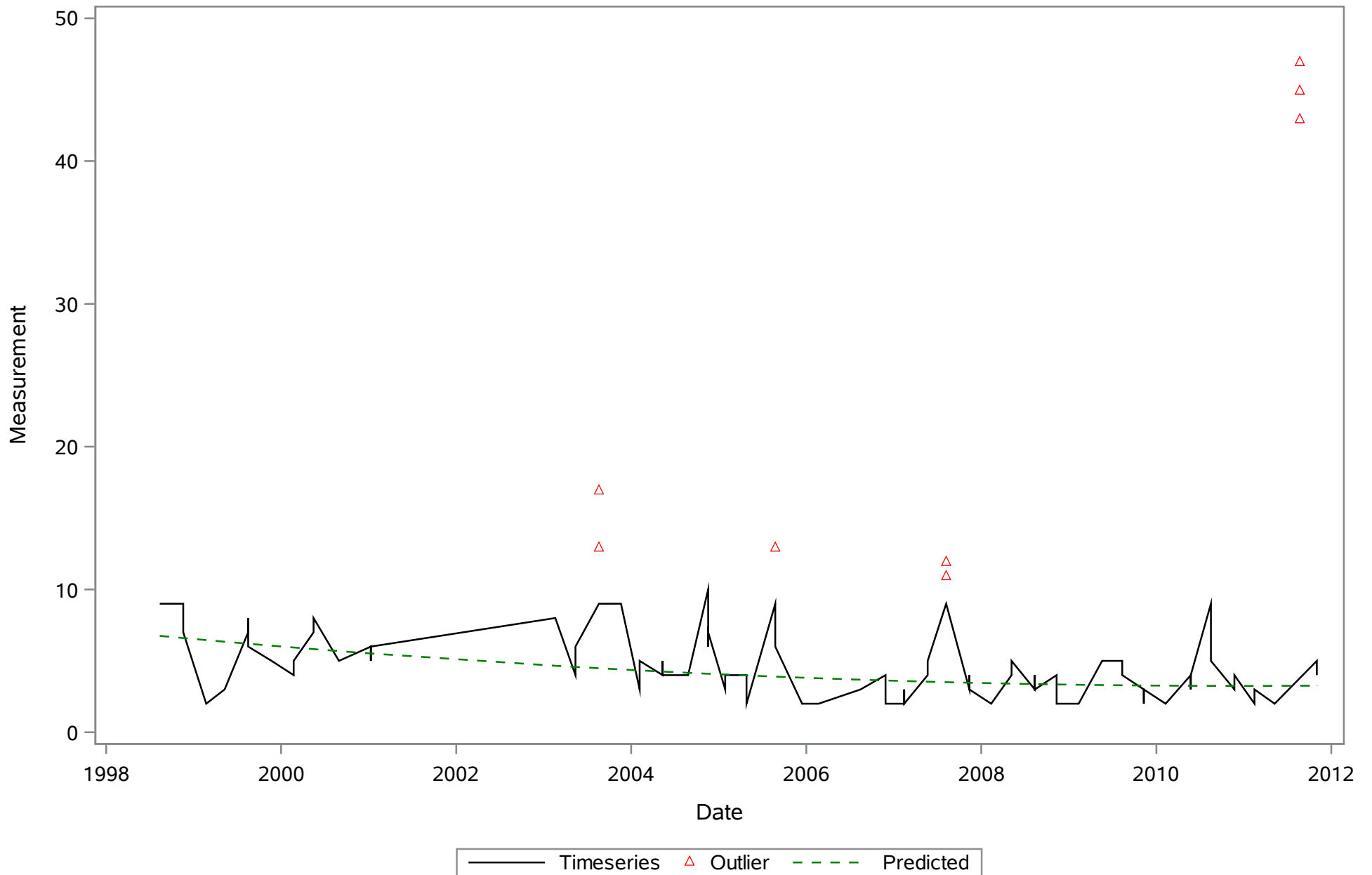


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_cor_ugl

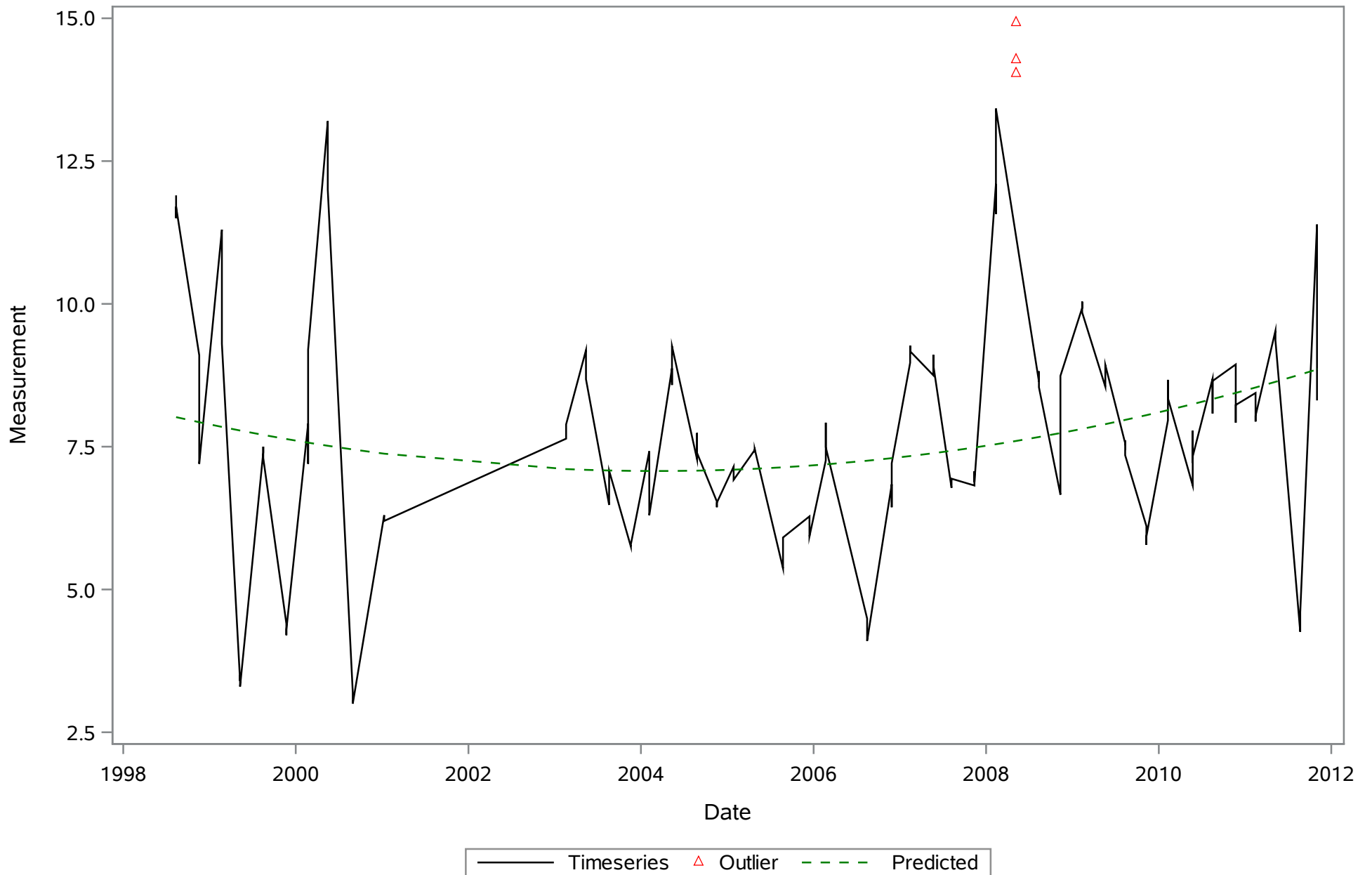


— Timeseries △ Outlier - - - Predicted

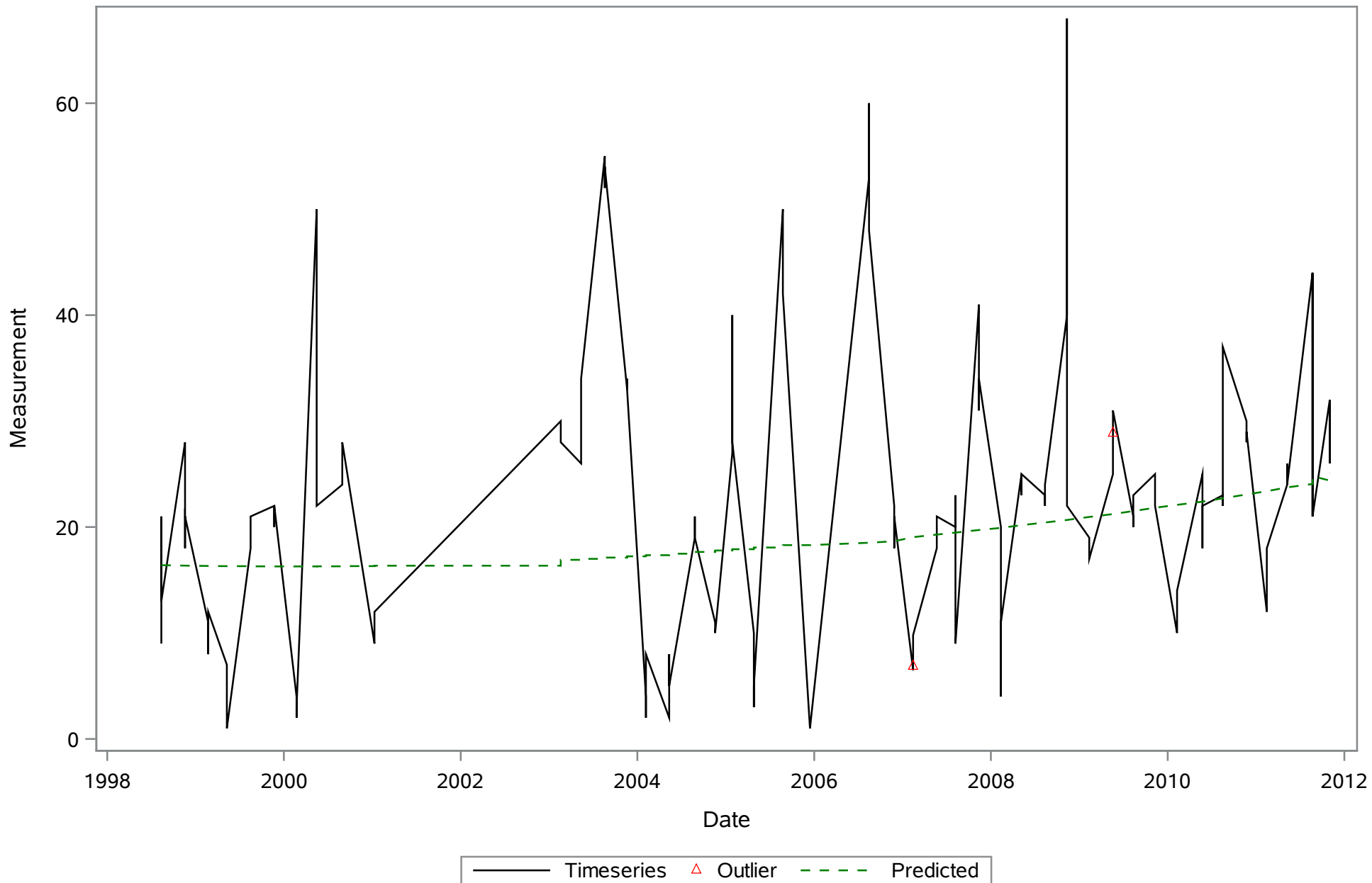
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
COLOR_PtCo



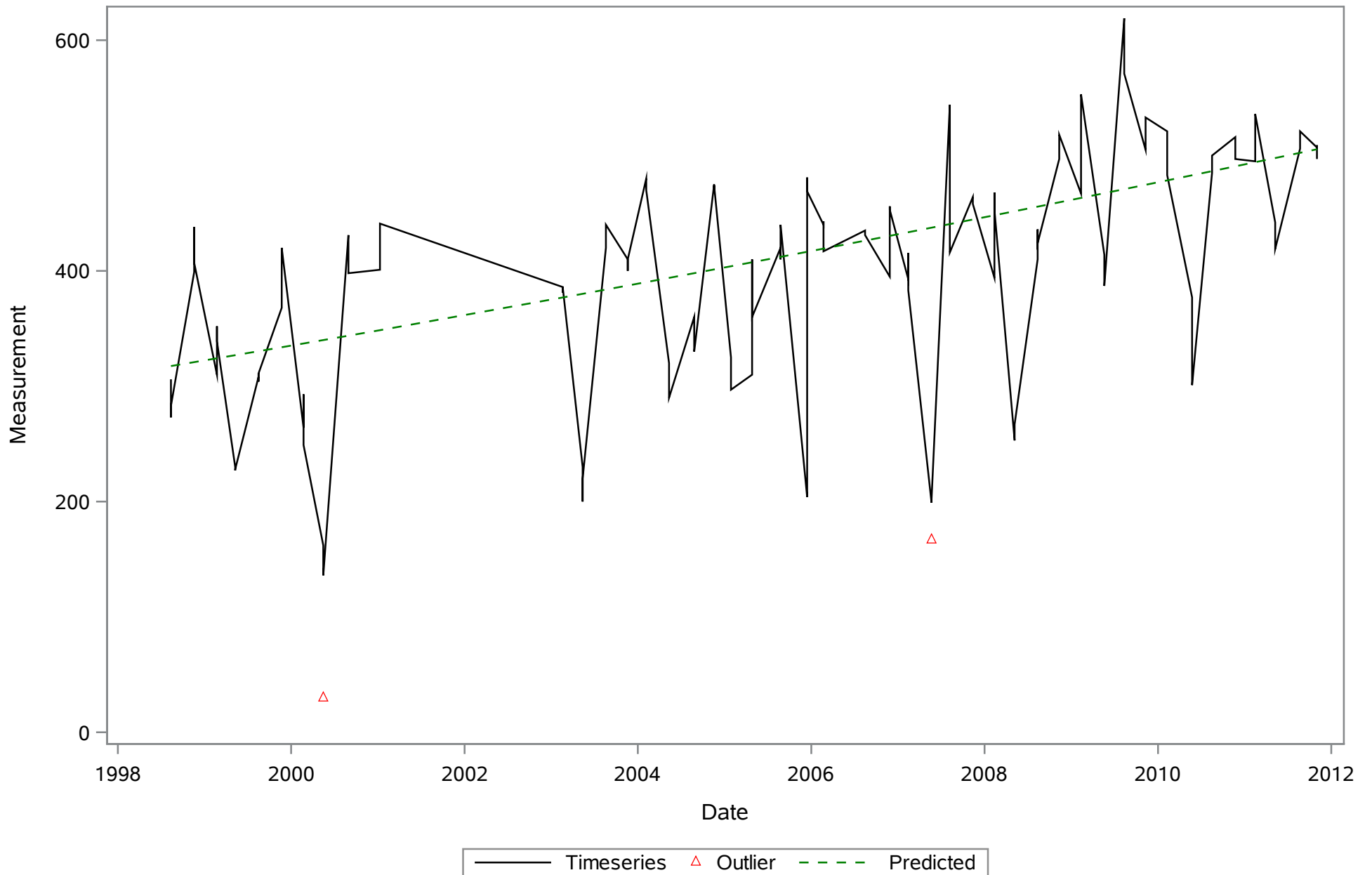
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
DO_mgL



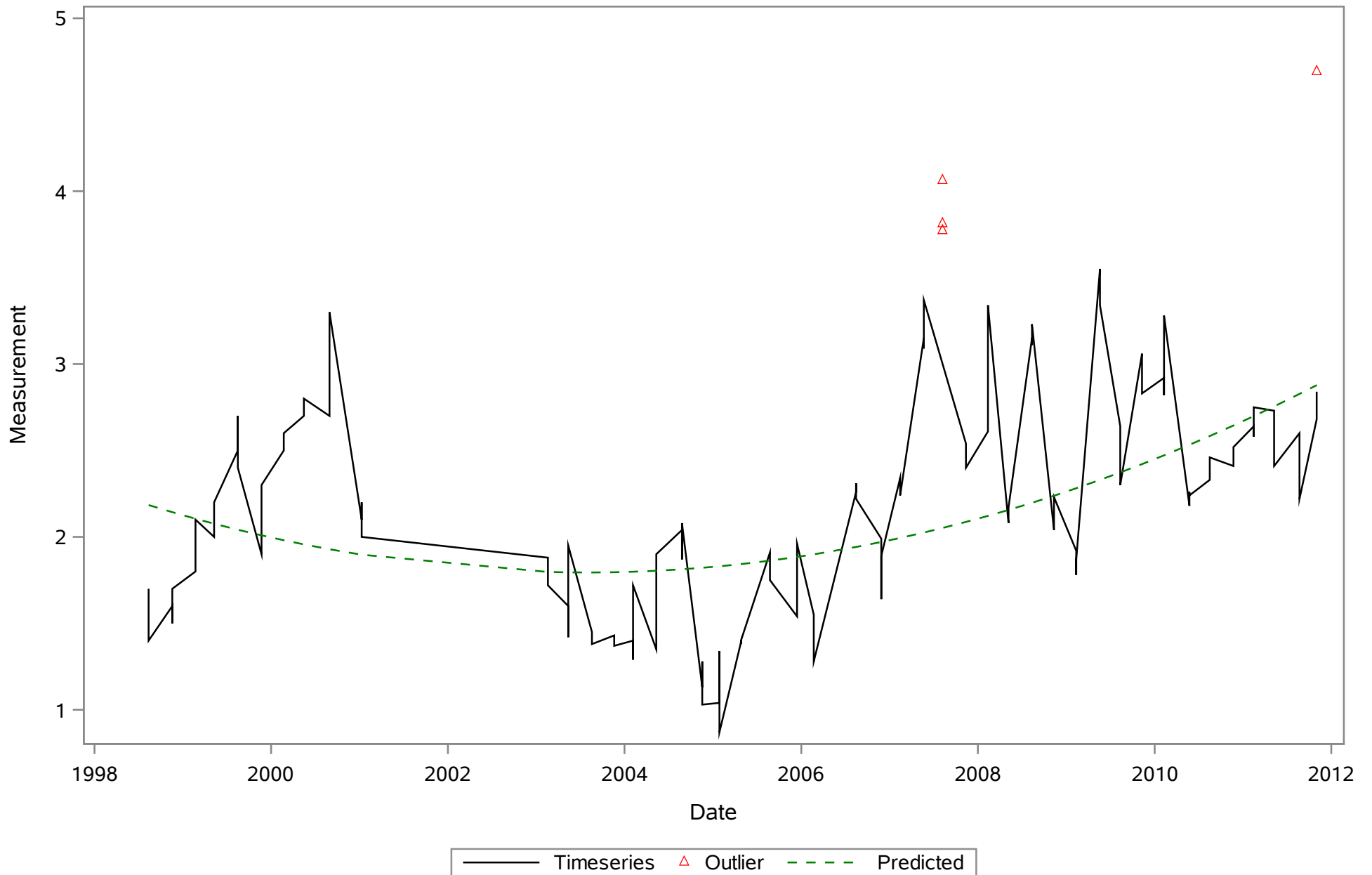
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NH4_uql



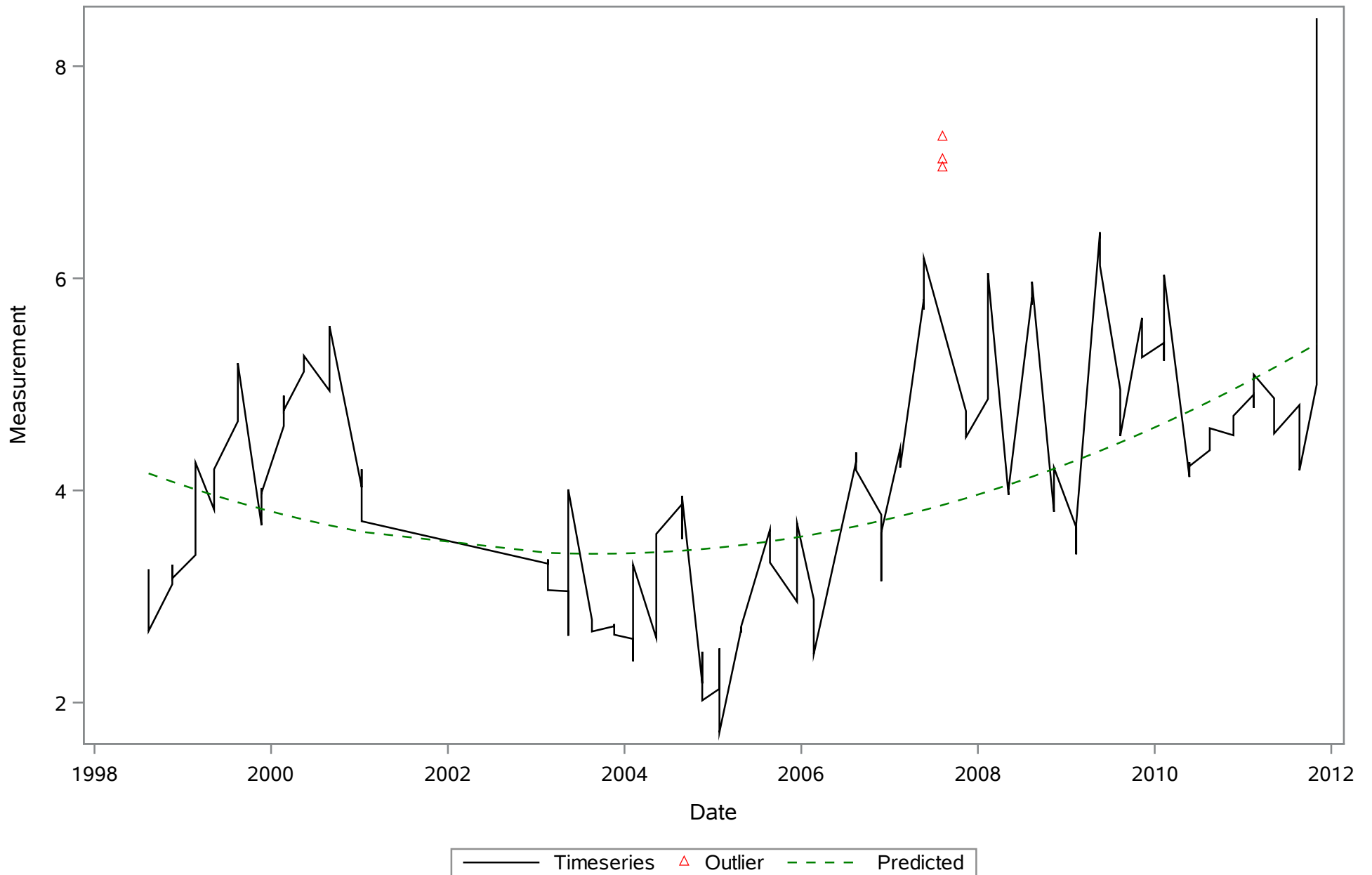
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NO3_ugL



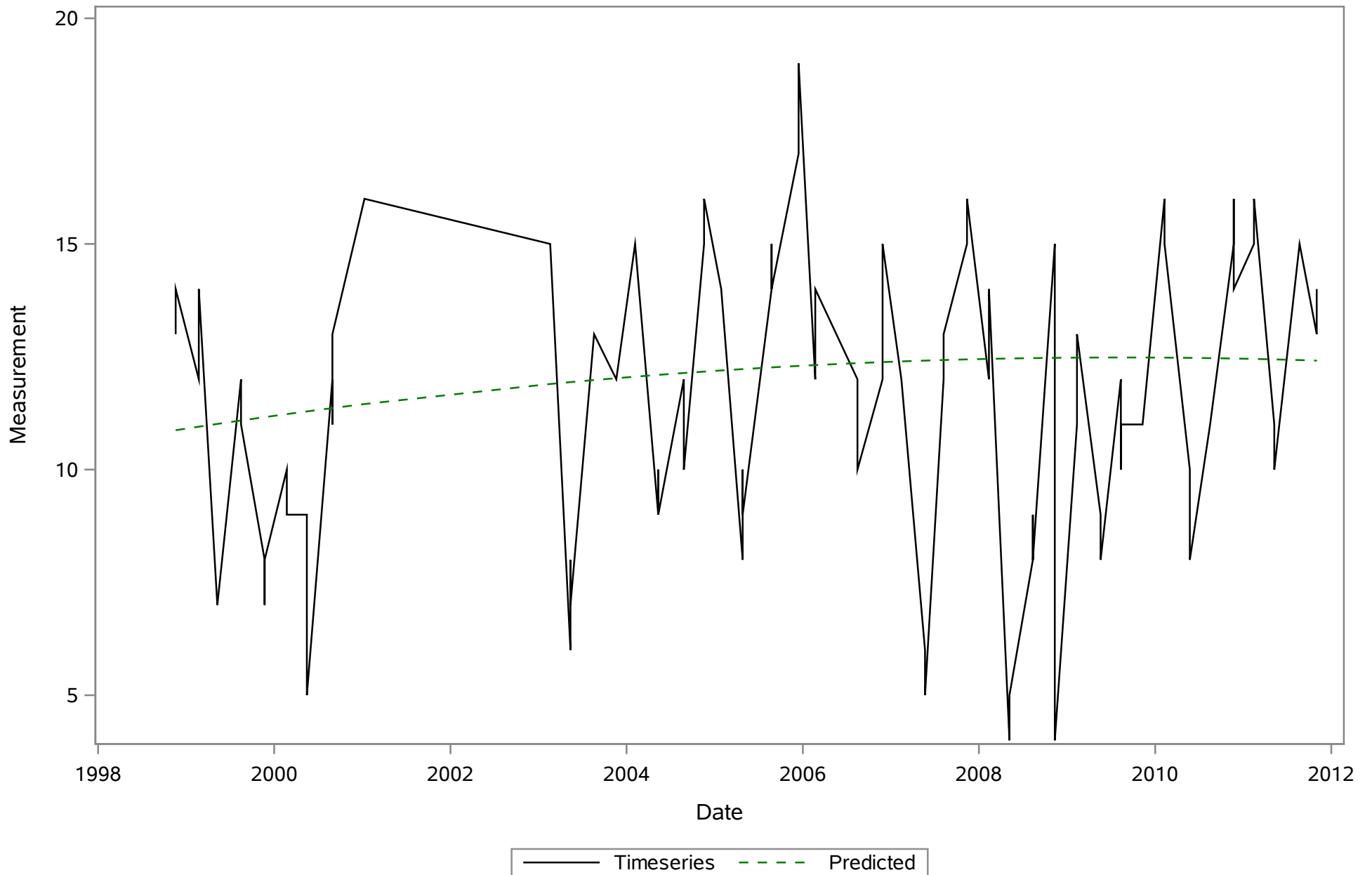
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SAL_Perc



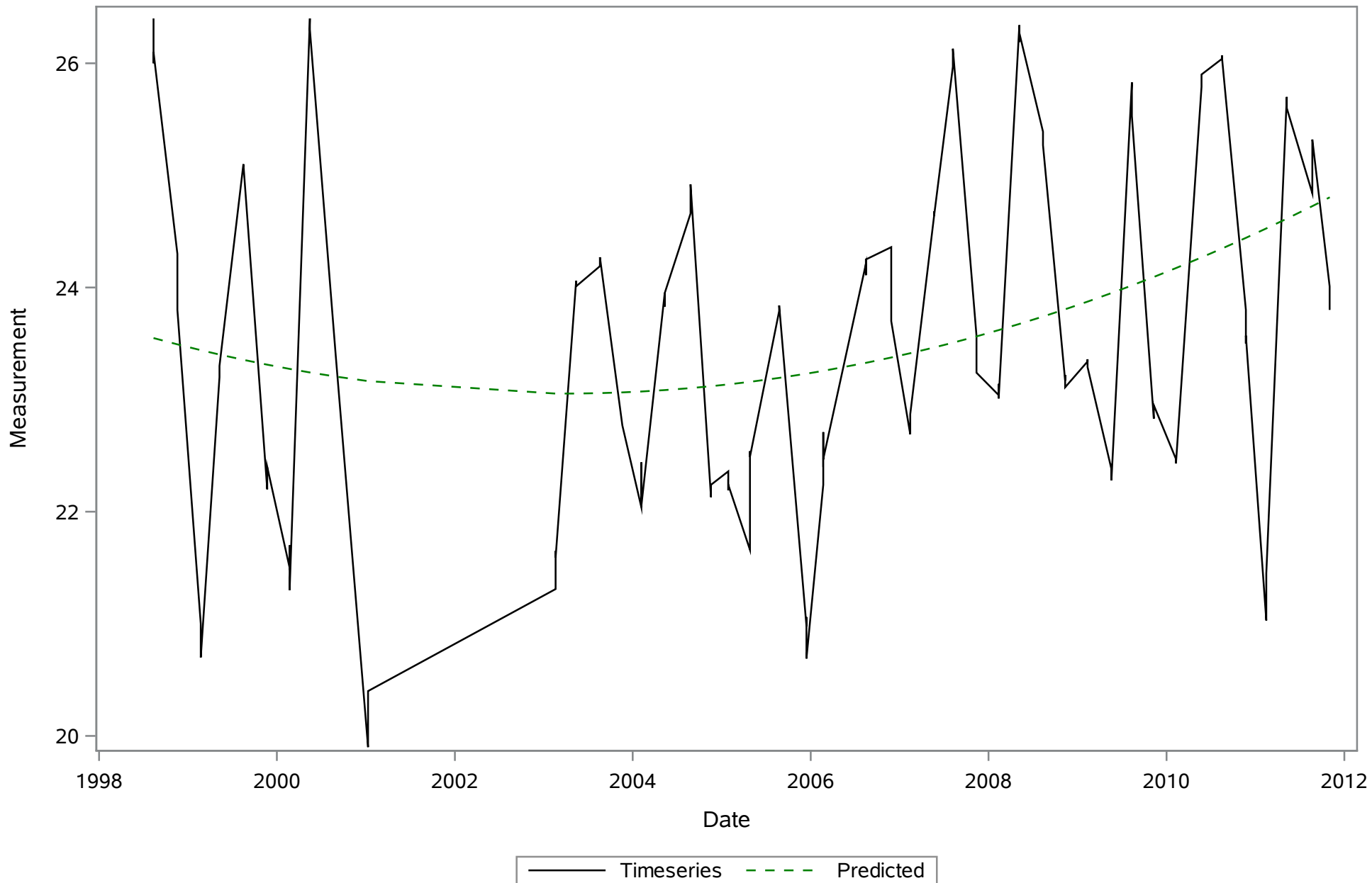
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SPCOND_mS_cm



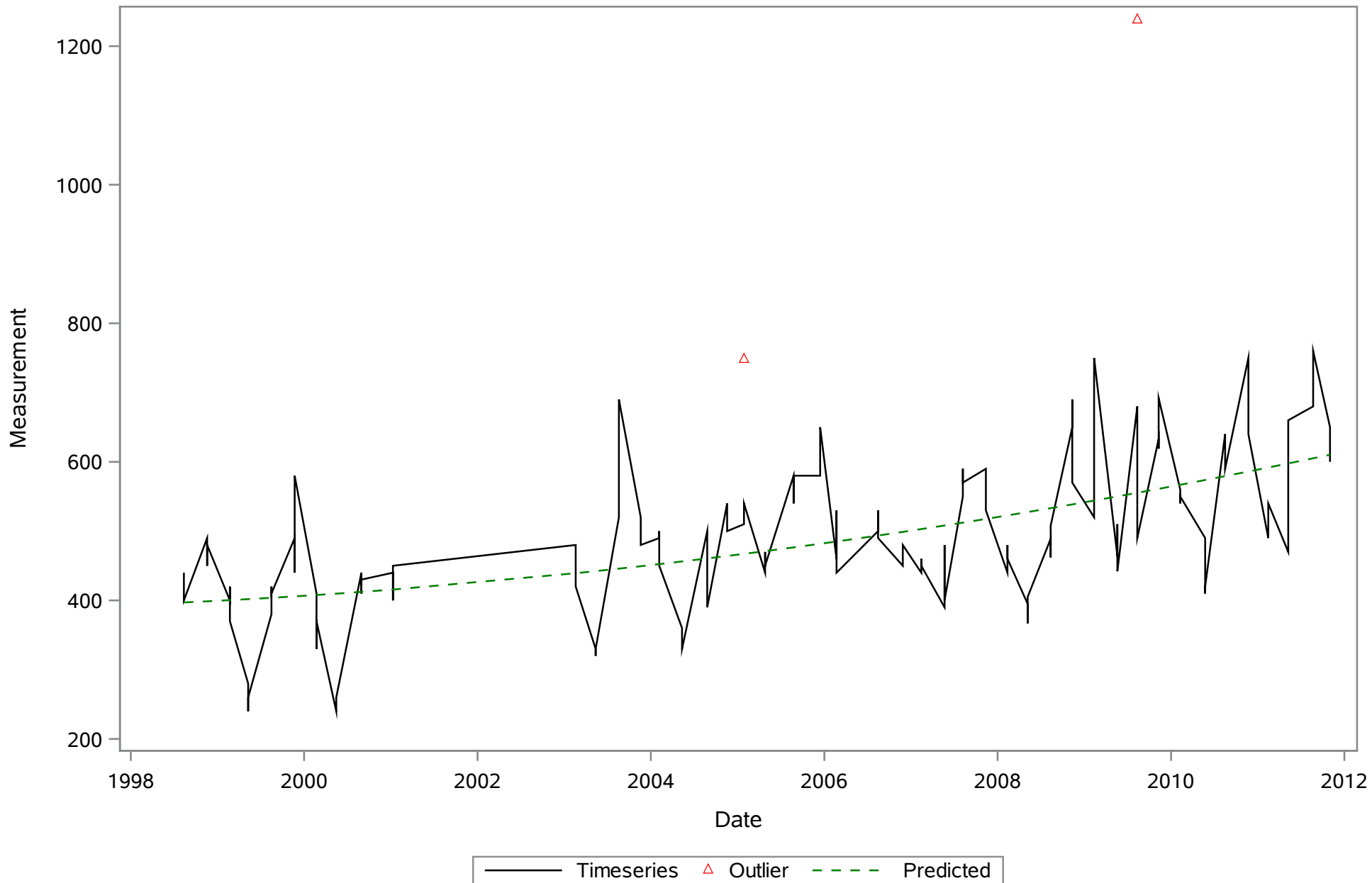
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SRP_ugL



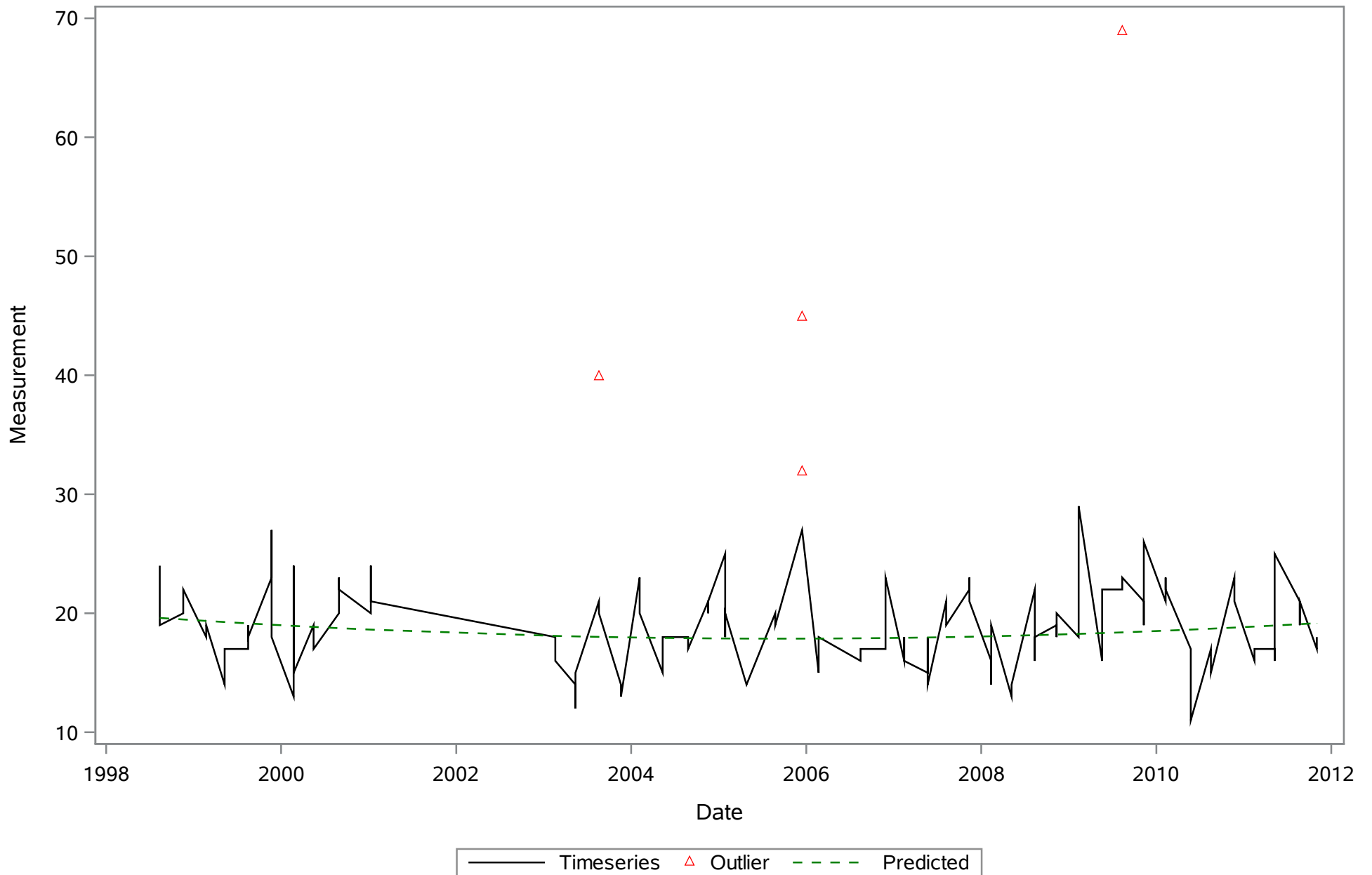
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TEMP_C



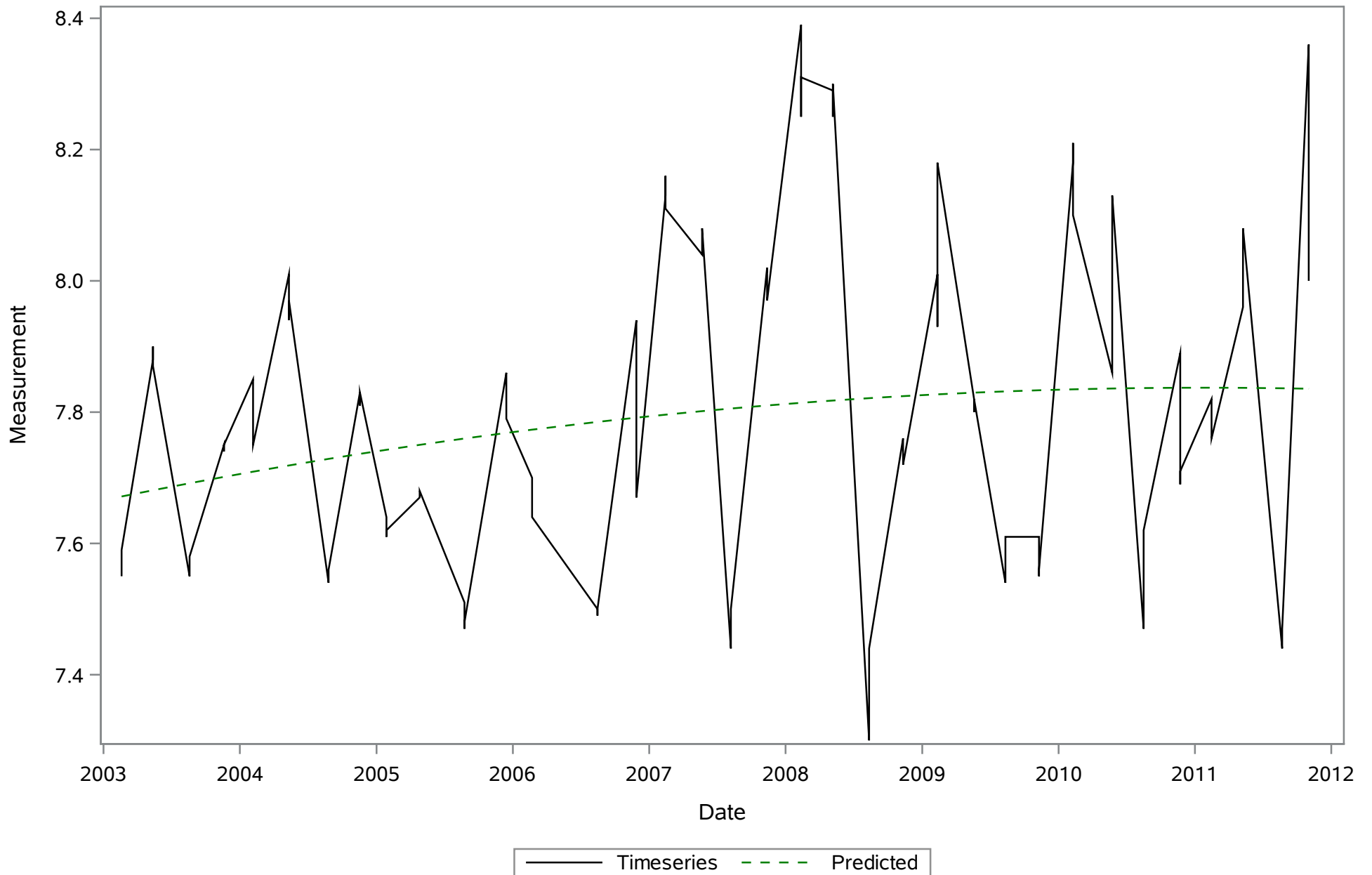
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TN_ugl



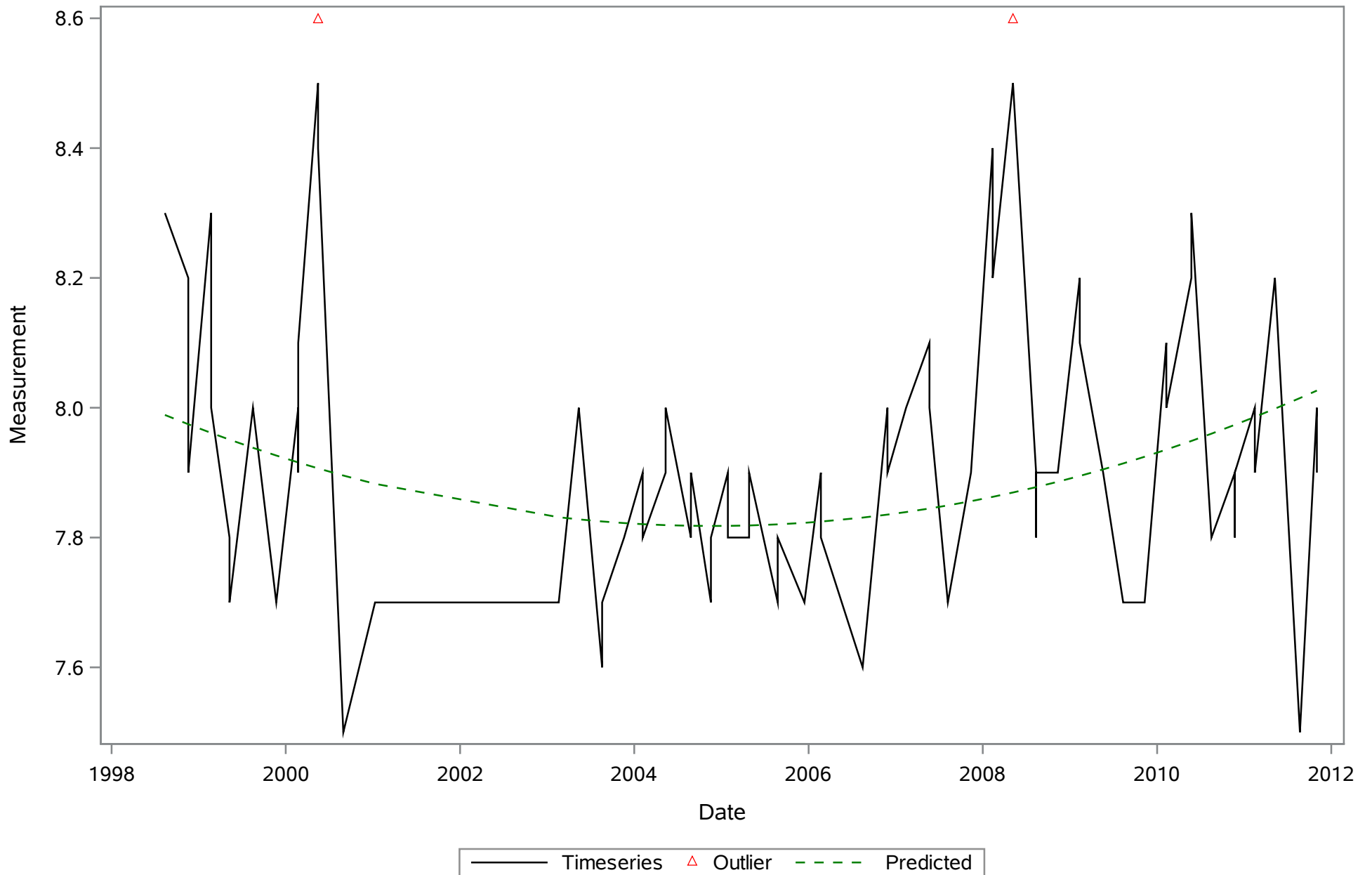
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TP_ugl



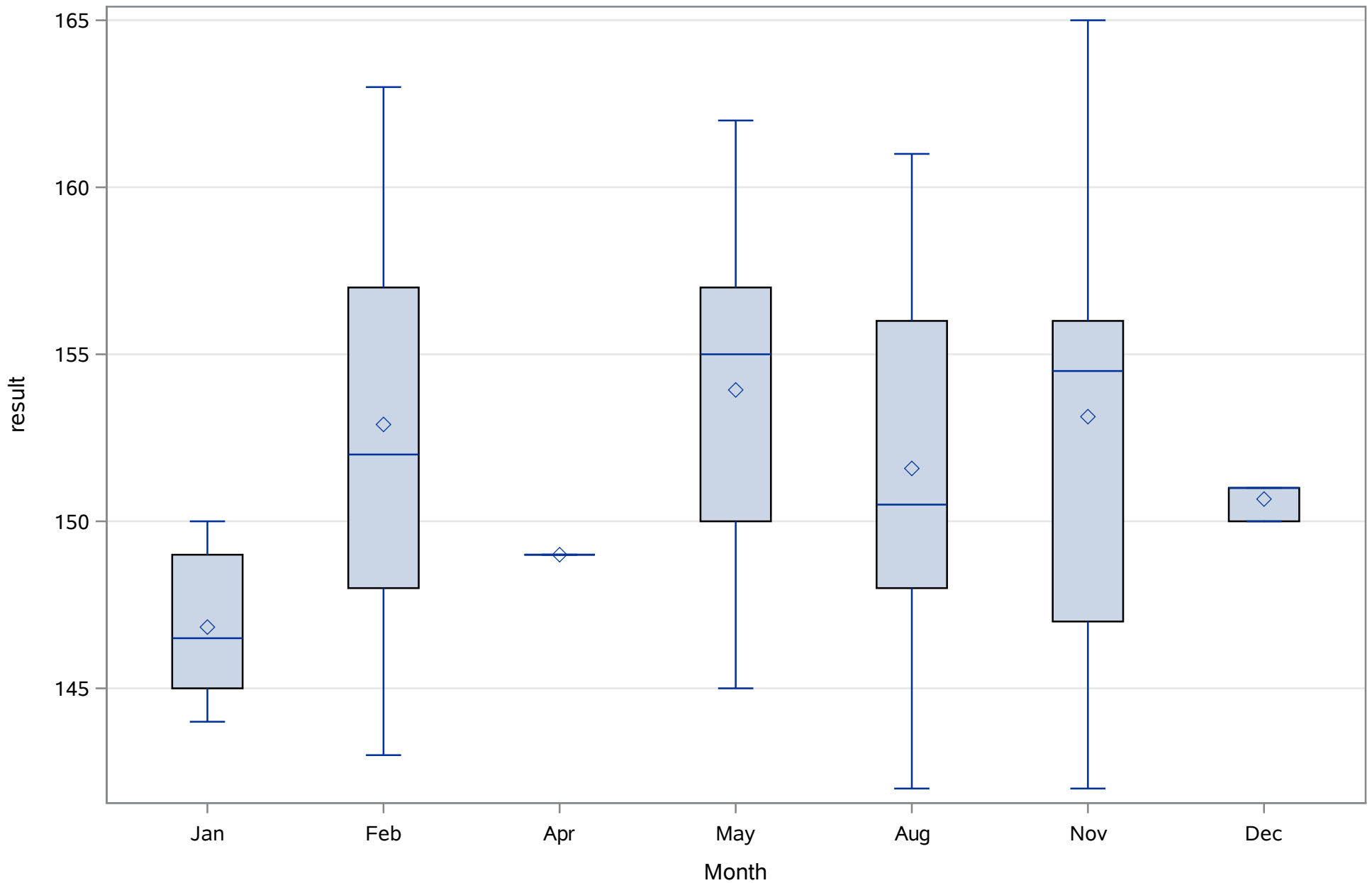
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Field



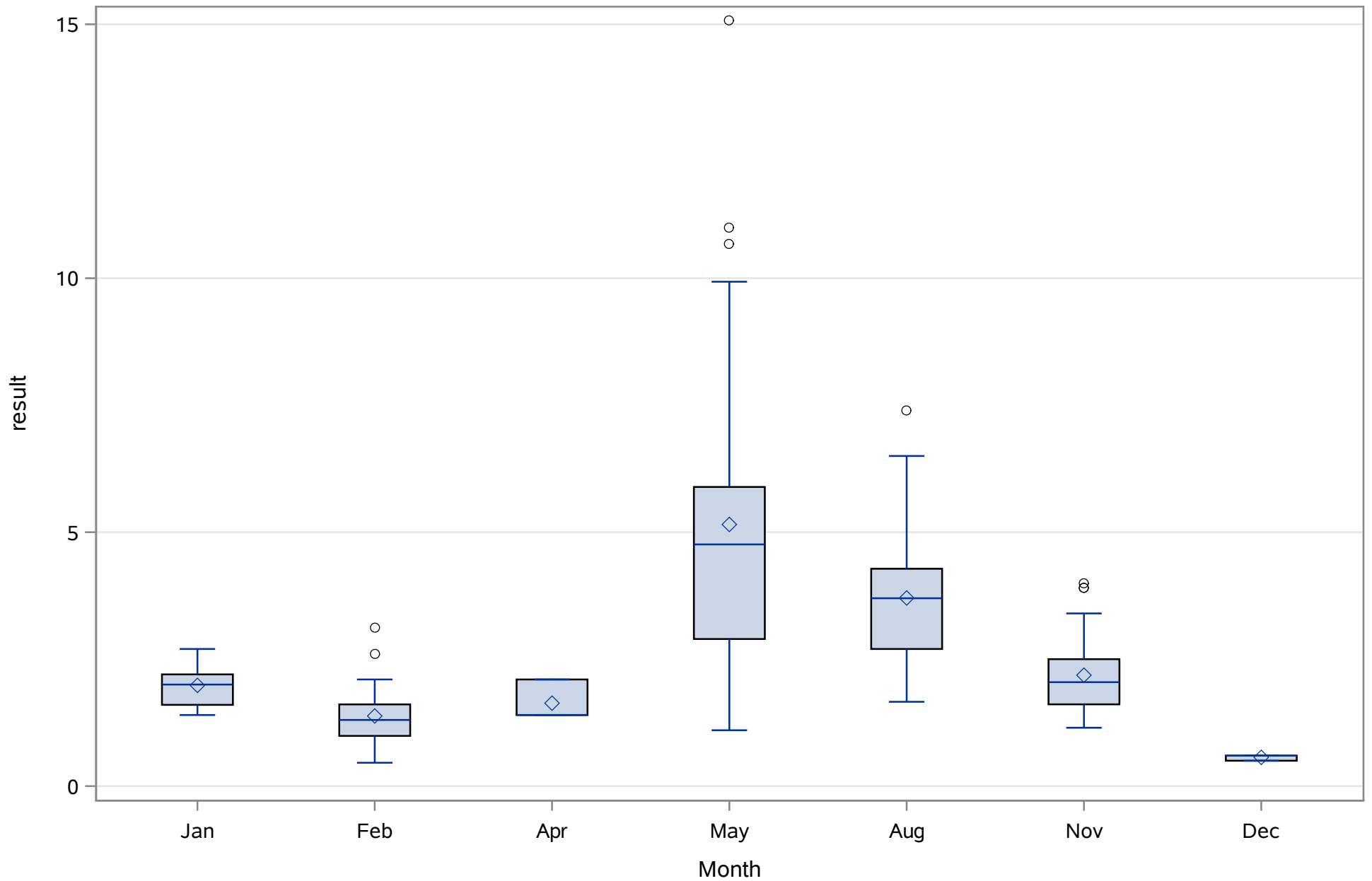
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Lab



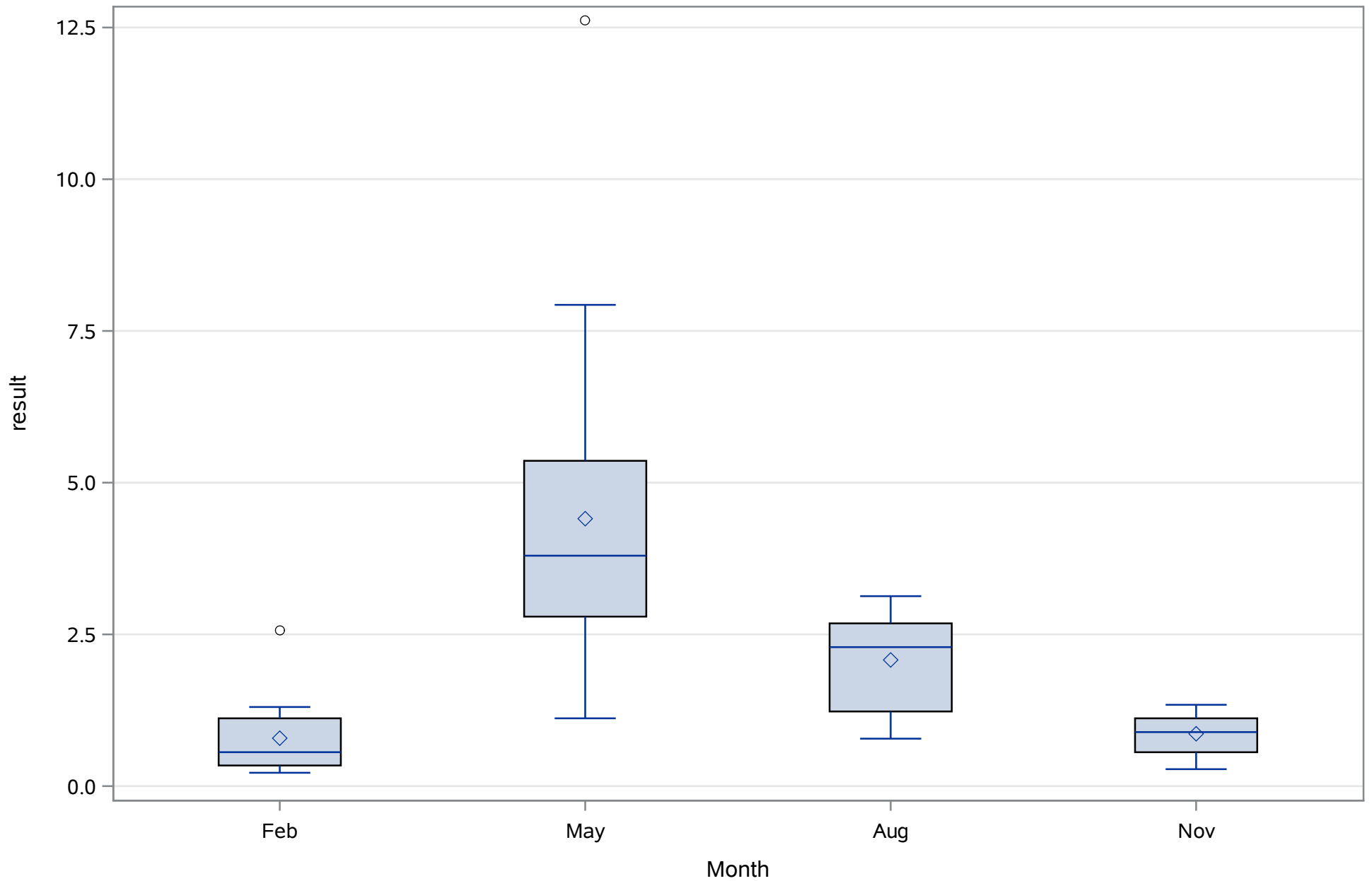
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
ALK_tot_mgL



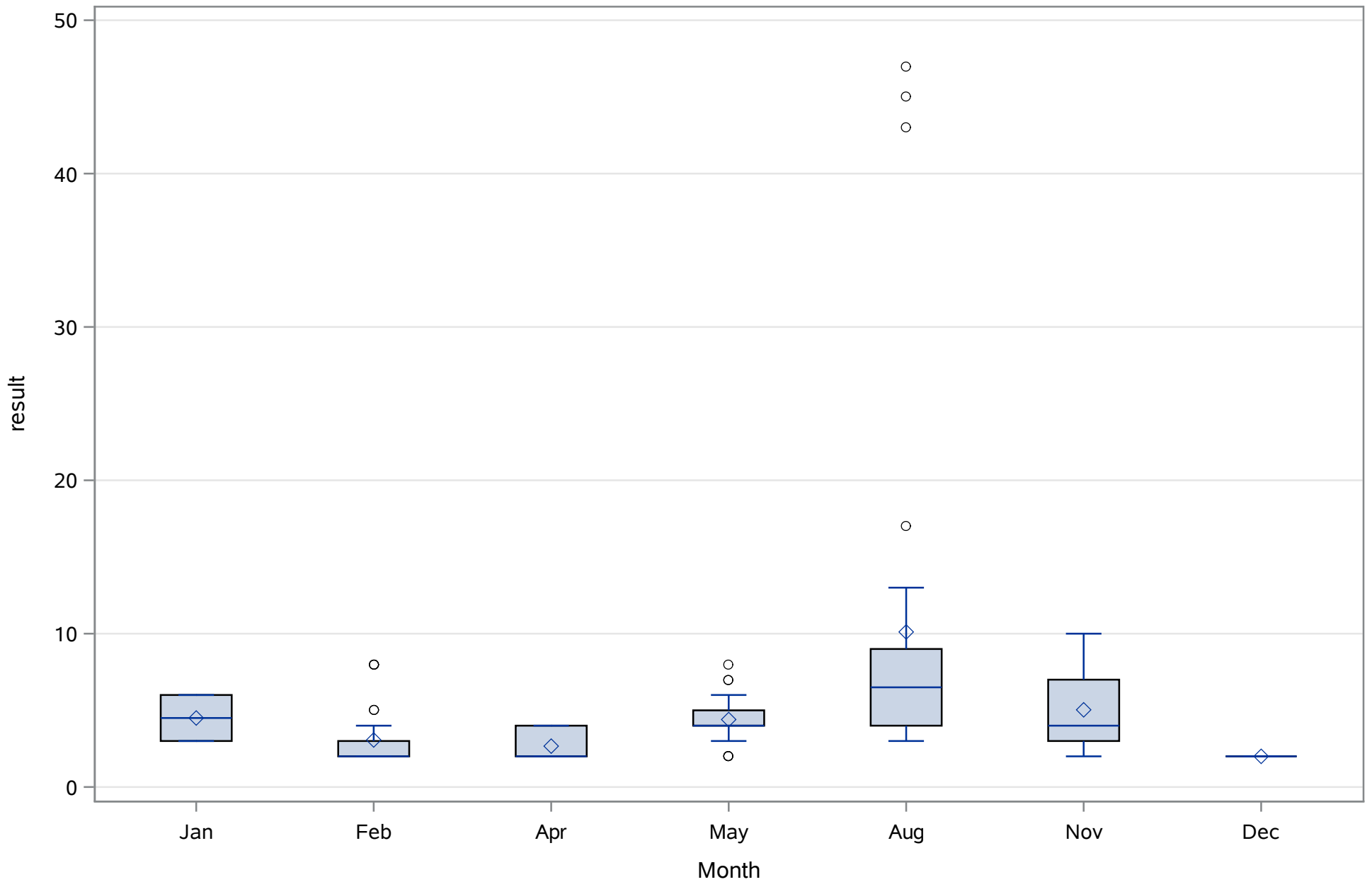
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_Uncor_ugL



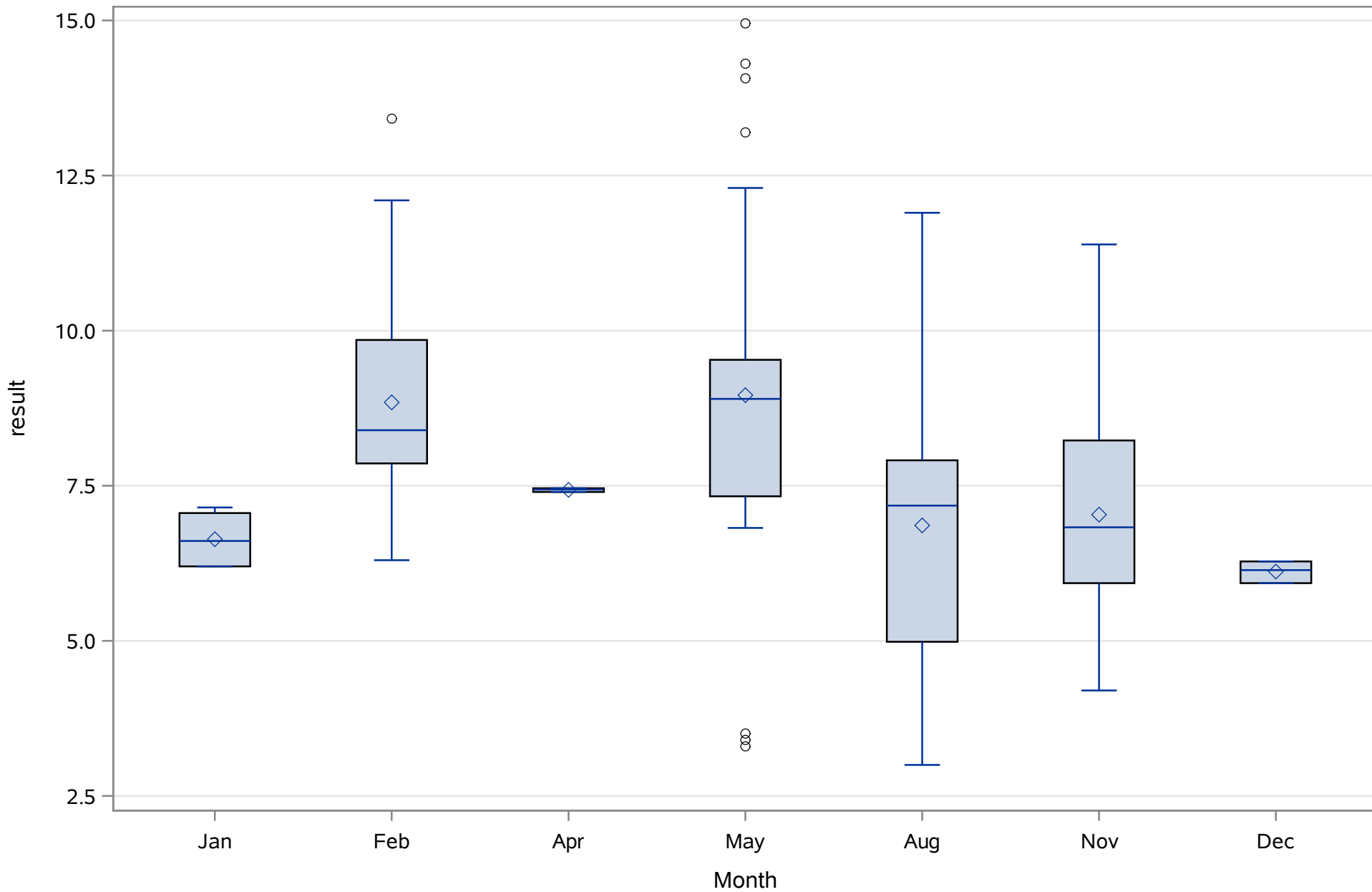
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
CHLA_cor_ugl



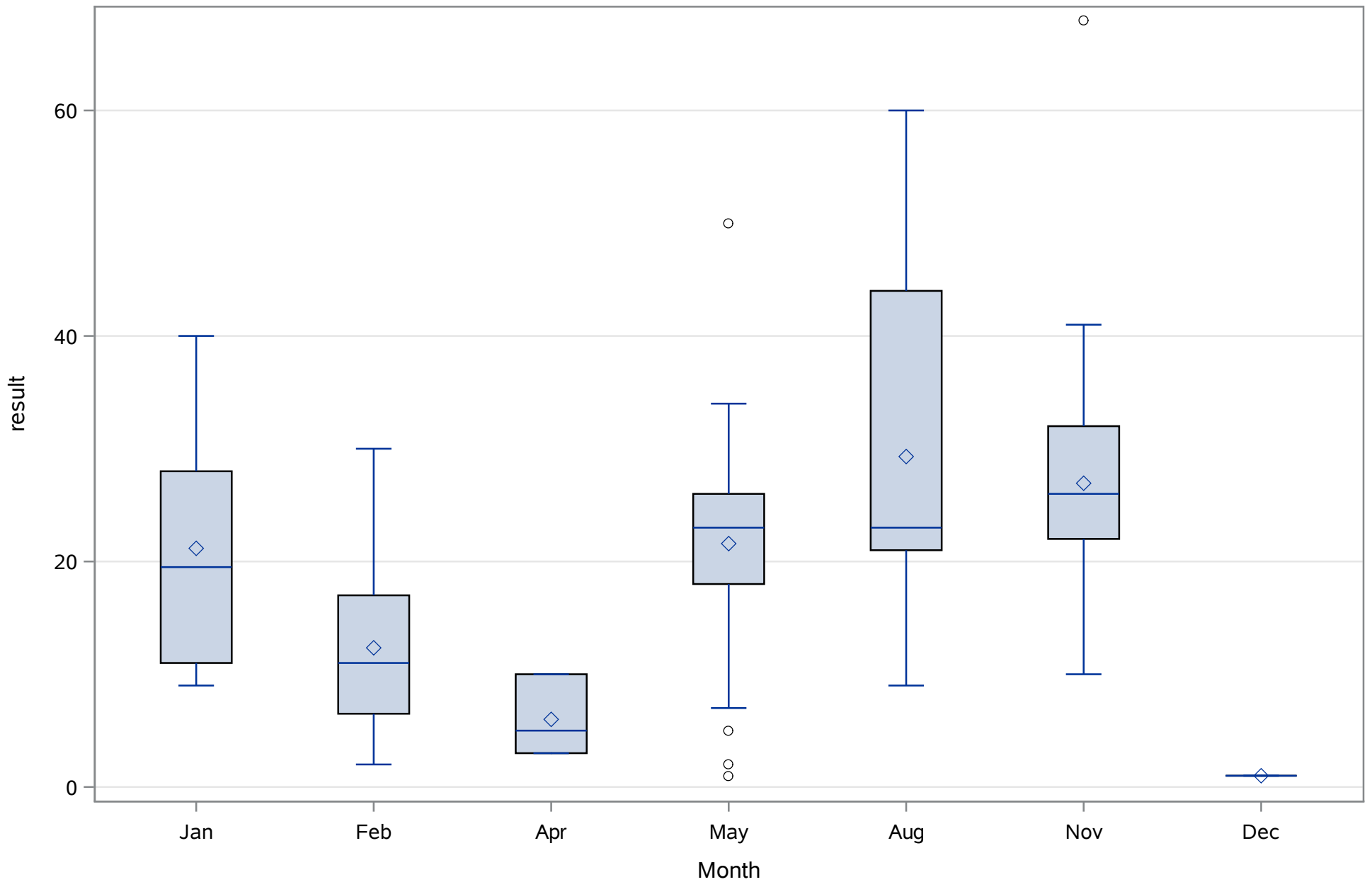
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
COLOR_PtCo



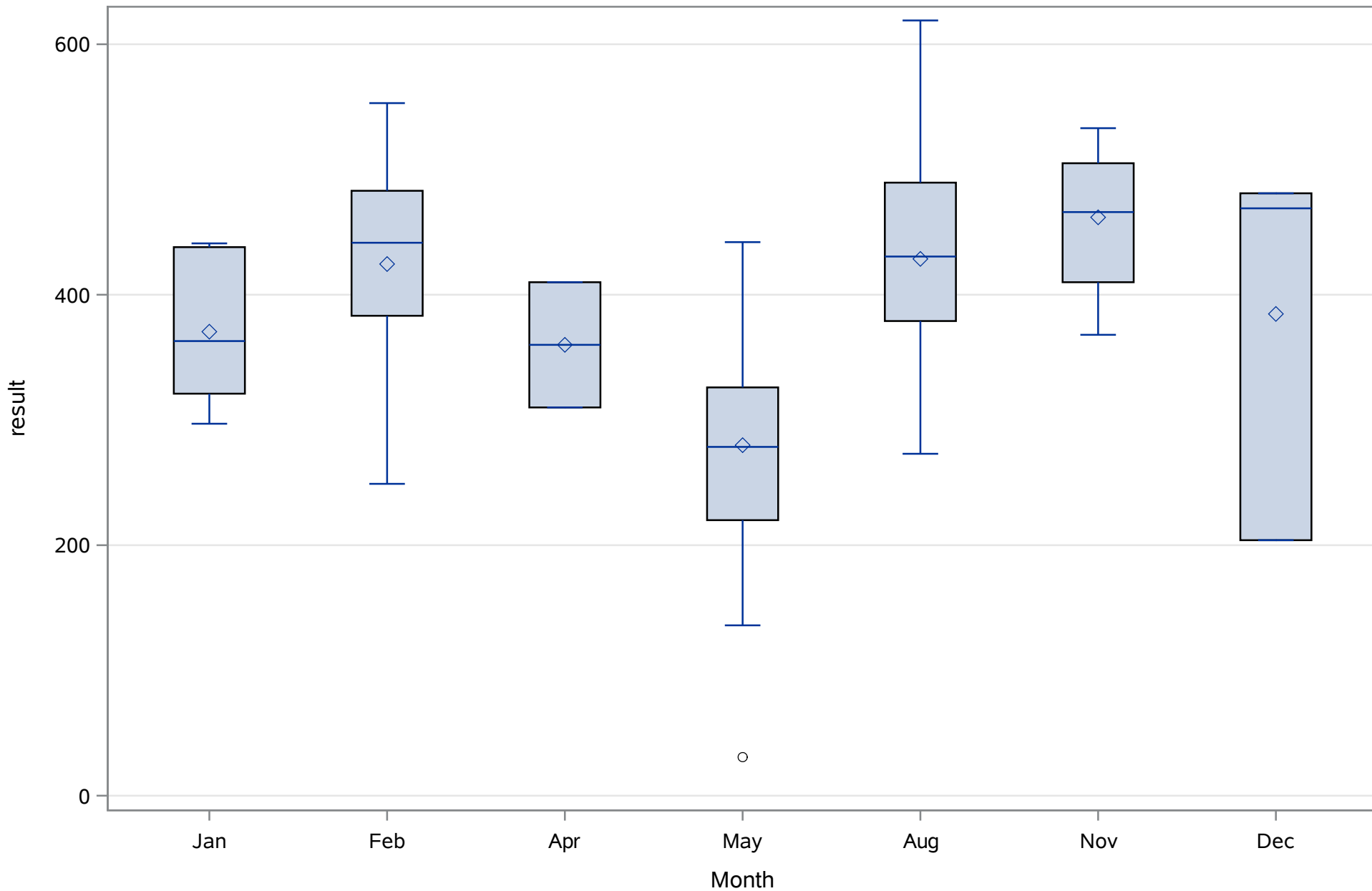
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
DO_mgL



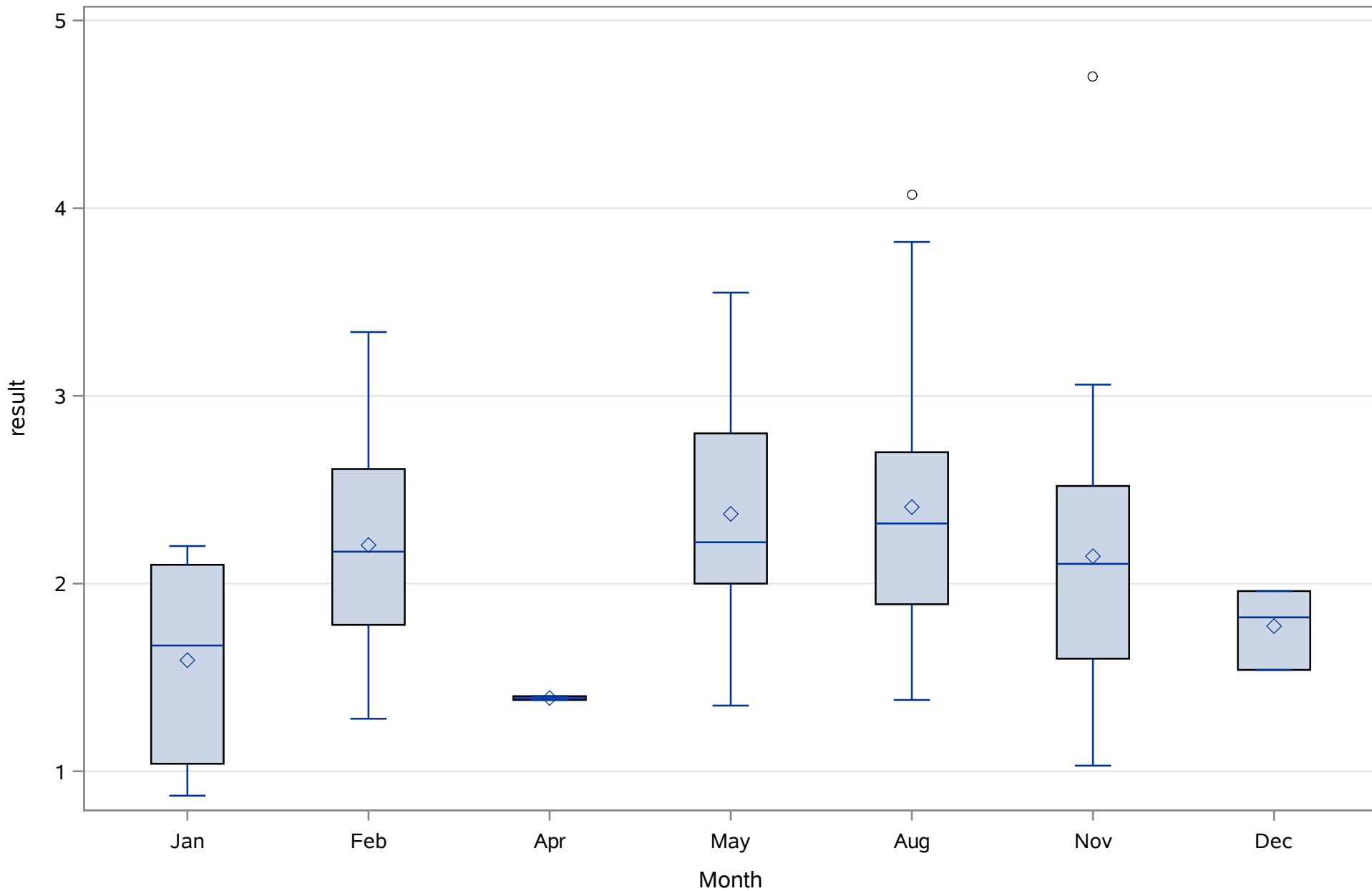
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NH4_ugl



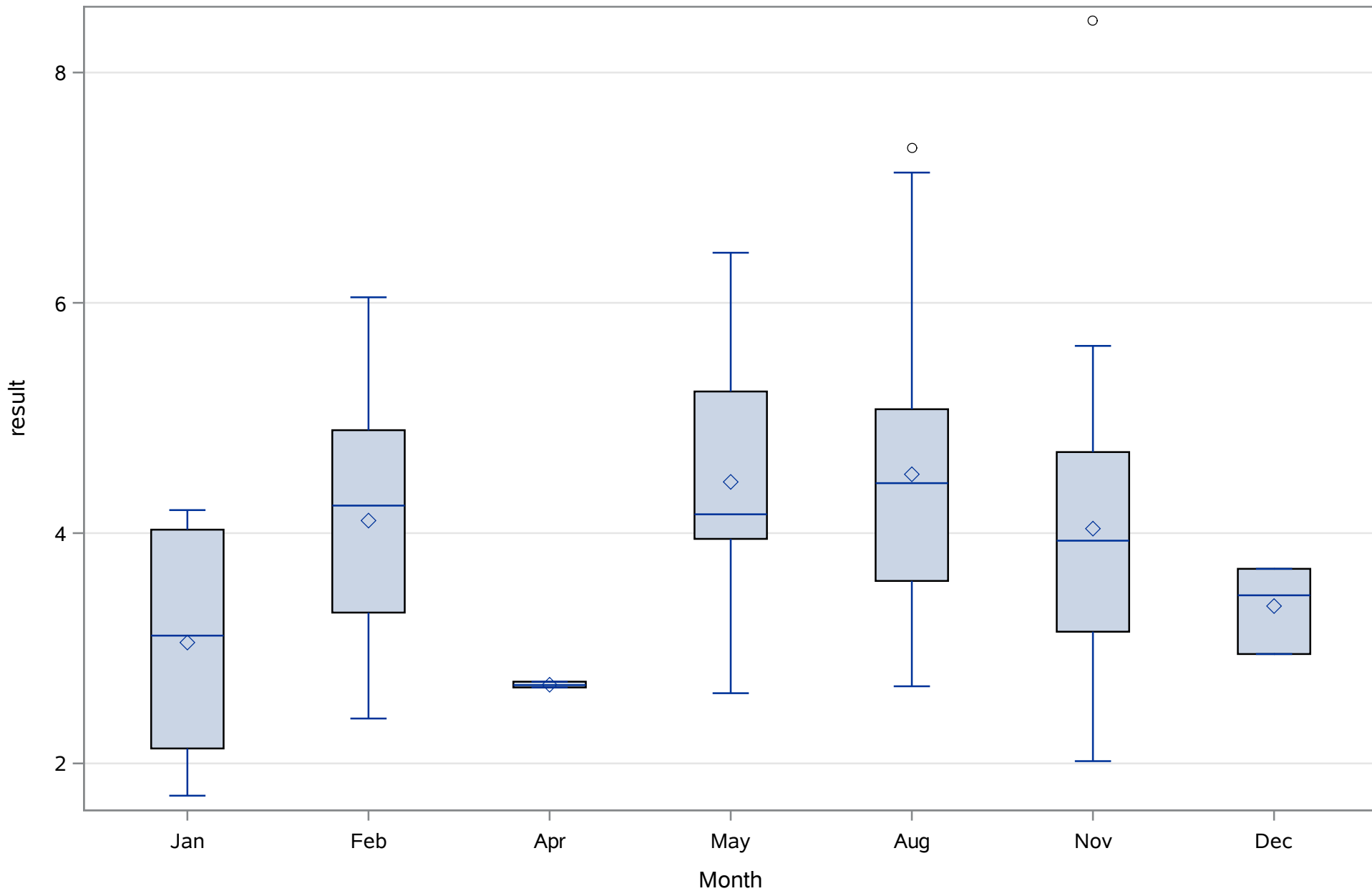
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
NO3_ugL



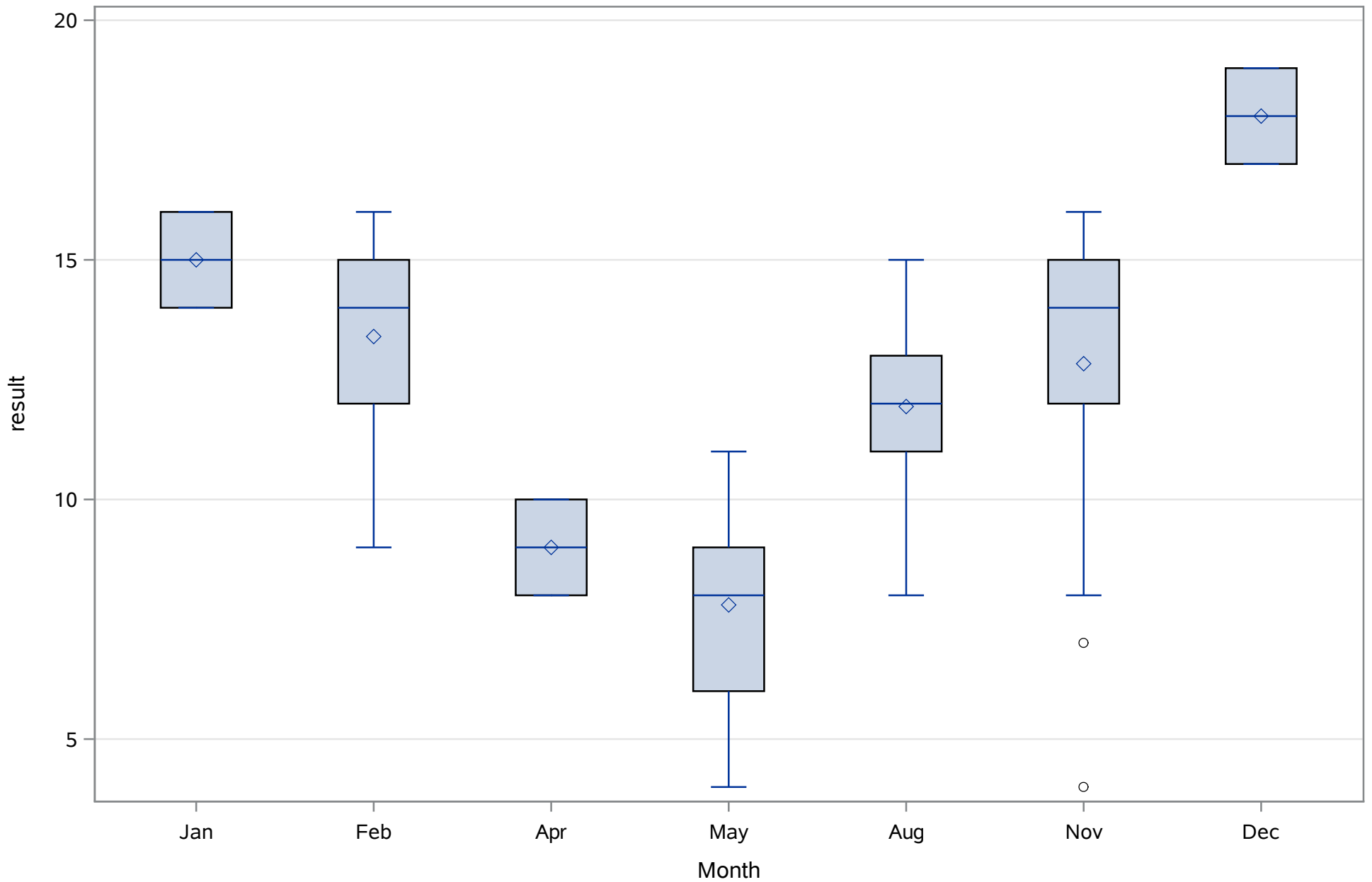
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SAL_Perc



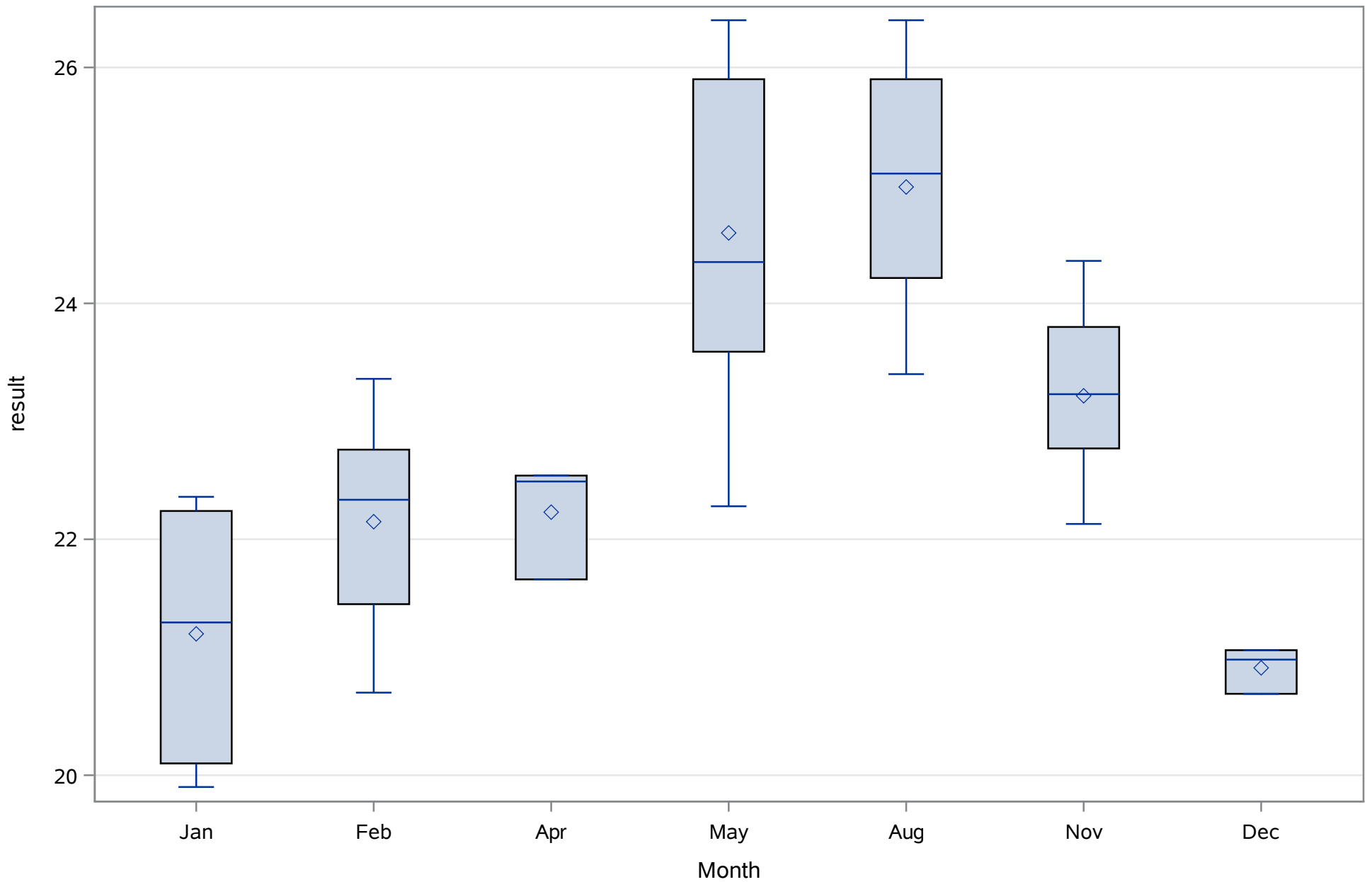
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SPCOND_mS_cm



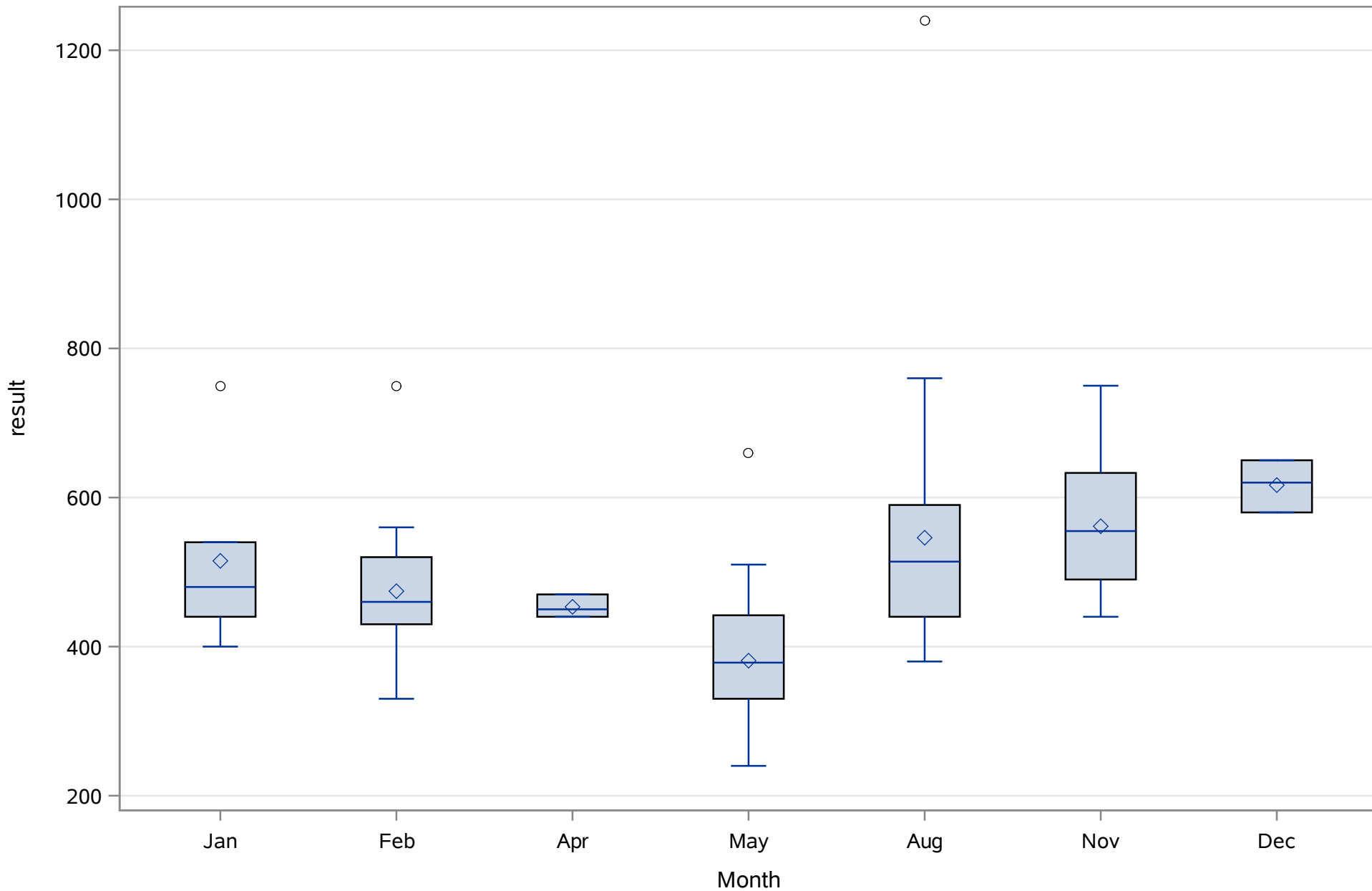
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
SRP_ugL



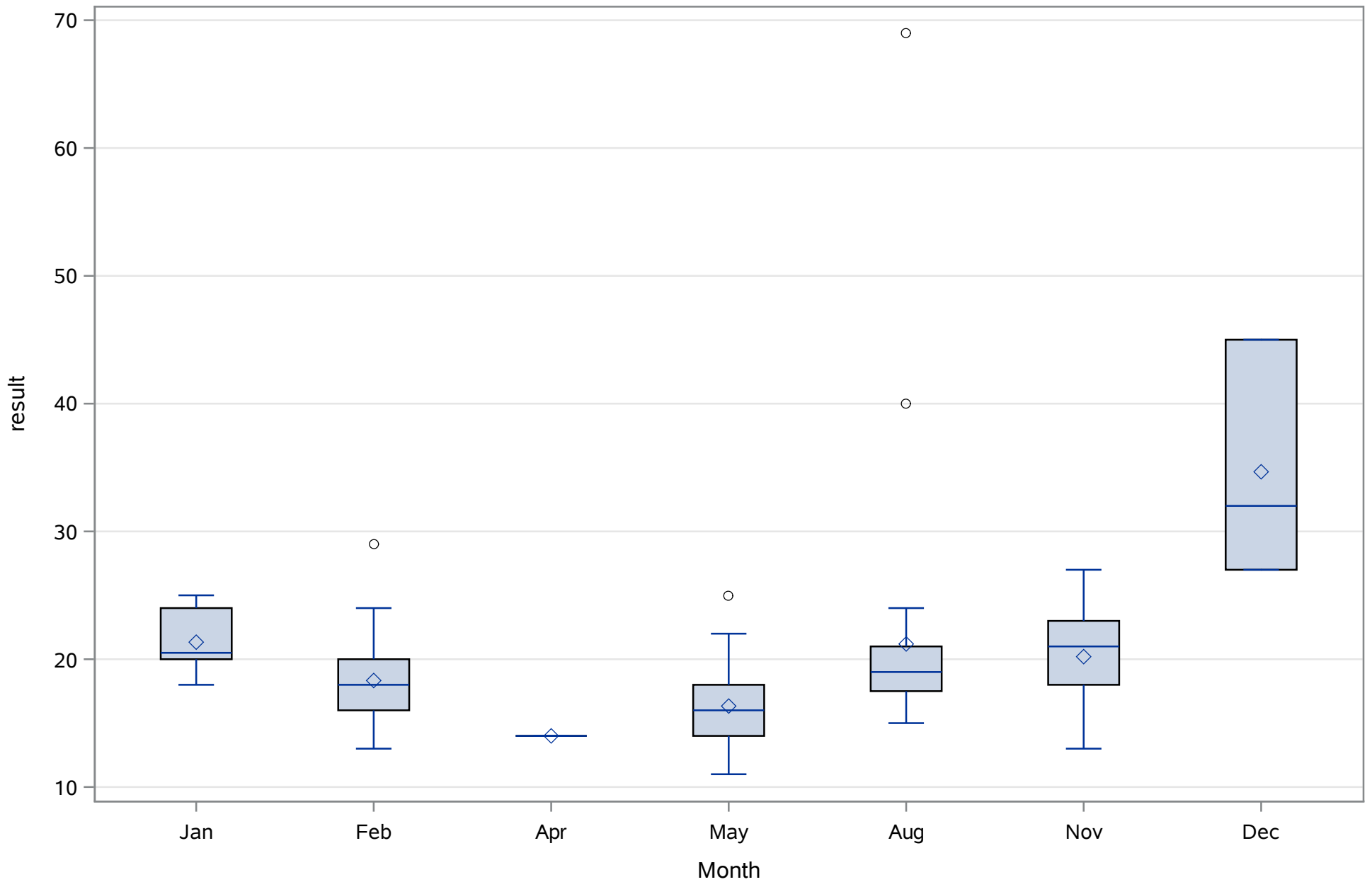
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TEMP_C



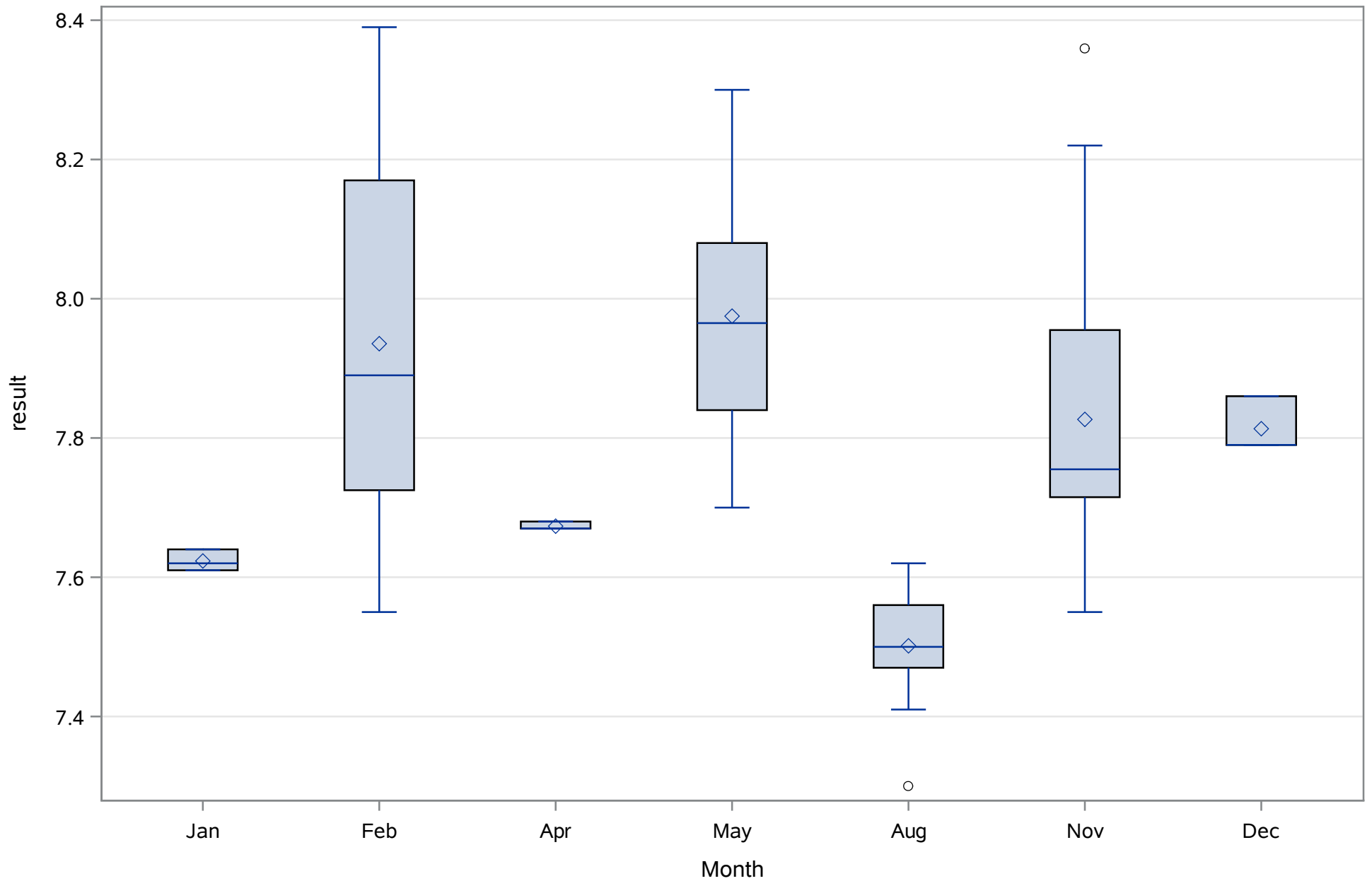
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 4
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	152.528986	Sum Observations	21049
Std Deviation	5.87732501	Variance	34.5429493
Skewness	0.27779282	Kurtosis	-0.7666216
Uncorrected SS	3215315	Corrected SS	4732.38406
Coeff Variation	3.85325123	Std Error Mean	0.50031113

Basic Statistical Measures			
Location		Variability	
Mean	152.5290	Std Deviation	5.87733
Median	152.0000	Variance	34.54295
Mode	149.0000	Range	24.00000
		Interquartile Range	9.00000

Note: The mode displayed is the smallest of 2 modes with a count of 13.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	304.8683	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	166
99%	166
95%	164
90%	160
75% Q3	157
50% Median	152
25% Q1	148
10%	145
5%	144

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

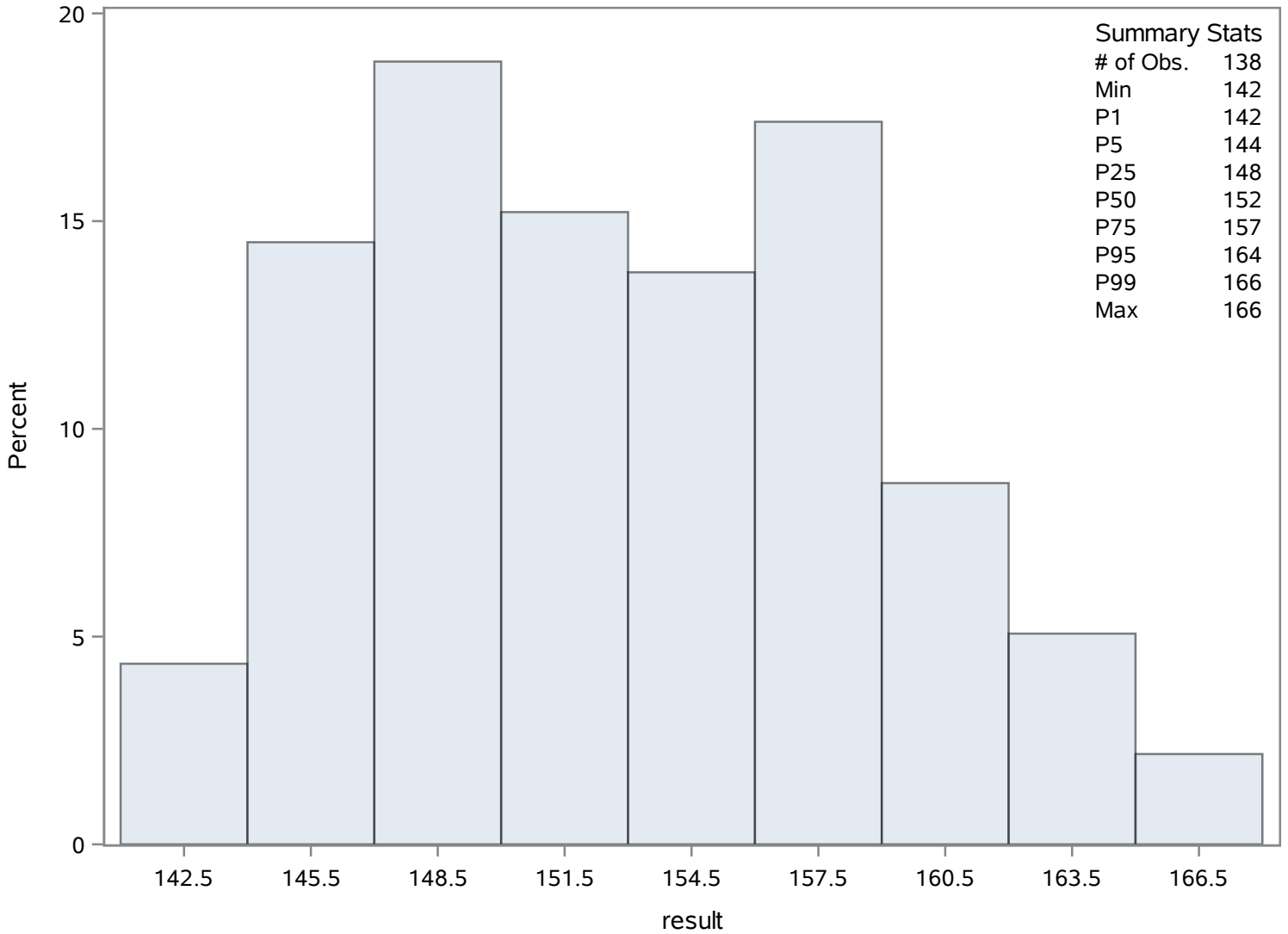
Quantiles (Definition 5)	
Level	Quantile
1%	142
0% Min	142

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
142	25	164	127
142	7	164	129
143	11	165	114
143	10	166	112
143	9	166	113

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	5.50849603	Sum Observations	760.172452
Std Deviation	5.41521941	Variance	29.3246013
Skewness	2.9353205	Kurtosis	10.8191822
Uncorrected SS	8204.87731	Corrected SS	4017.47038
Coeff Variation	98.3066772	Std Error Mean	0.46097409

Basic Statistical Measures			
Location		Variability	
Mean	5.508496	Std Deviation	5.41522
Median	4.045000	Variance	29.32460
Mode	2.700000	Range	34.50000
		Interquartile Range	3.92452

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.94969	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	35.10000
99%	29.06000
95%	15.82000
90%	10.76000
75% Q3	6.30000
50% Median	4.04500
25% Q1	2.37548
10%	1.50000
5%	1.29000
1%	0.69000
0% Min	0.60000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_Uncor_ugL

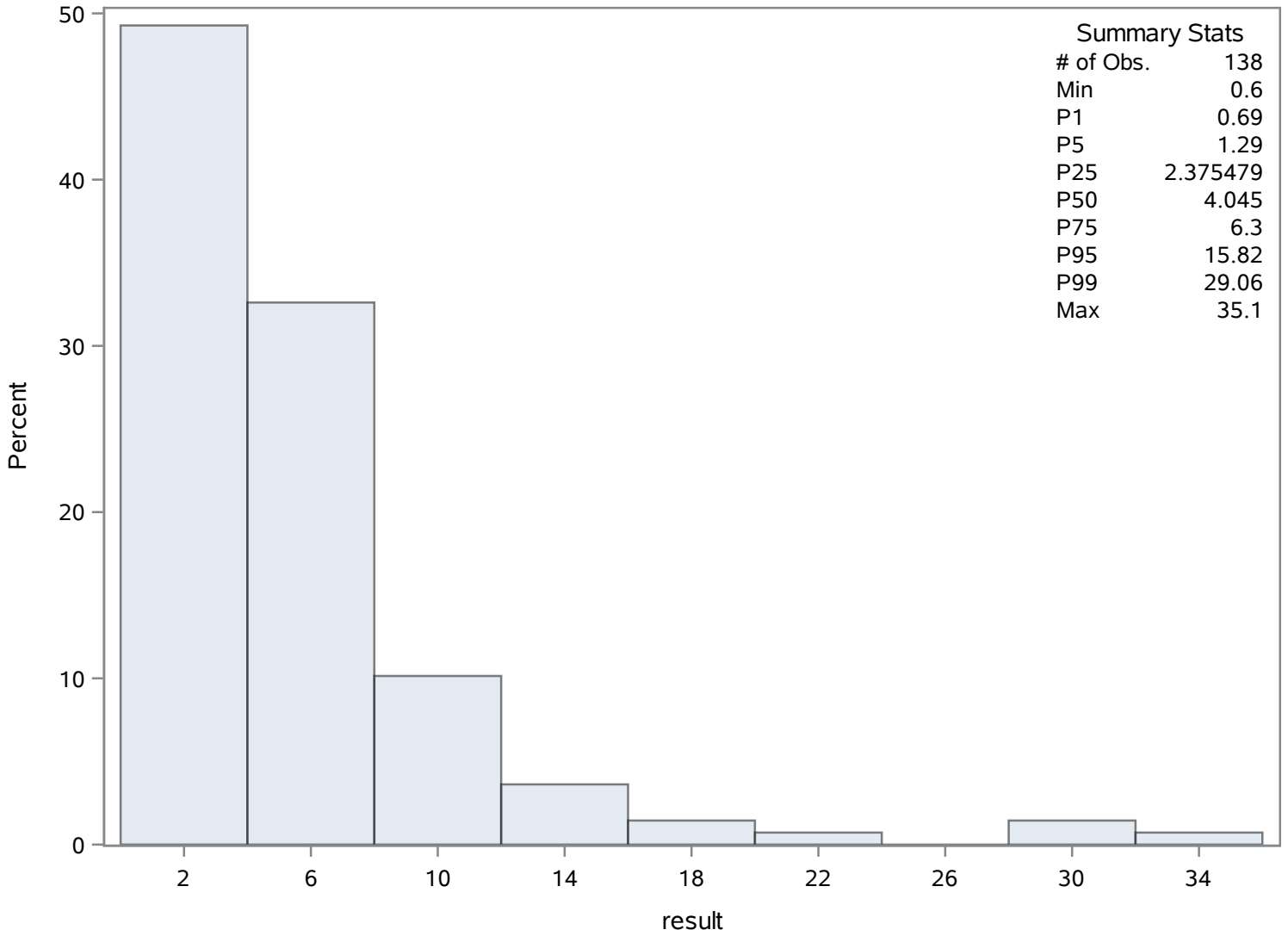
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	207	19.03	258
0.69	254	23.08	244
0.70	206	28.87	269
0.83	267	29.06	259
1.01	266	35.10	183

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	4.04496979	Sum Observations	291.237825
Std Deviation	4.65157558	Variance	21.6371554
Skewness	2.38225936	Kurtosis	6.37493568
Uncorrected SS	2714.28624	Corrected SS	1536.23803
Coeff Variation	114.996547	Std Error Mean	0.54819344

Basic Statistical Measures			
Location		Variability	
Mean	4.044970	Std Deviation	4.65158
Median	2.230000	Variance	21.63716
Mode	0.560000	Range	23.68000
		Interquartile Range	4.46793

Note: The mode displayed is the smallest of 12 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.378727	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.02000
99%	24.02000
95%	16.09000
90%	8.83000
75% Q3	5.64241
50% Median	2.23000
25% Q1	1.17448
10%	0.78000
5%	0.56000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

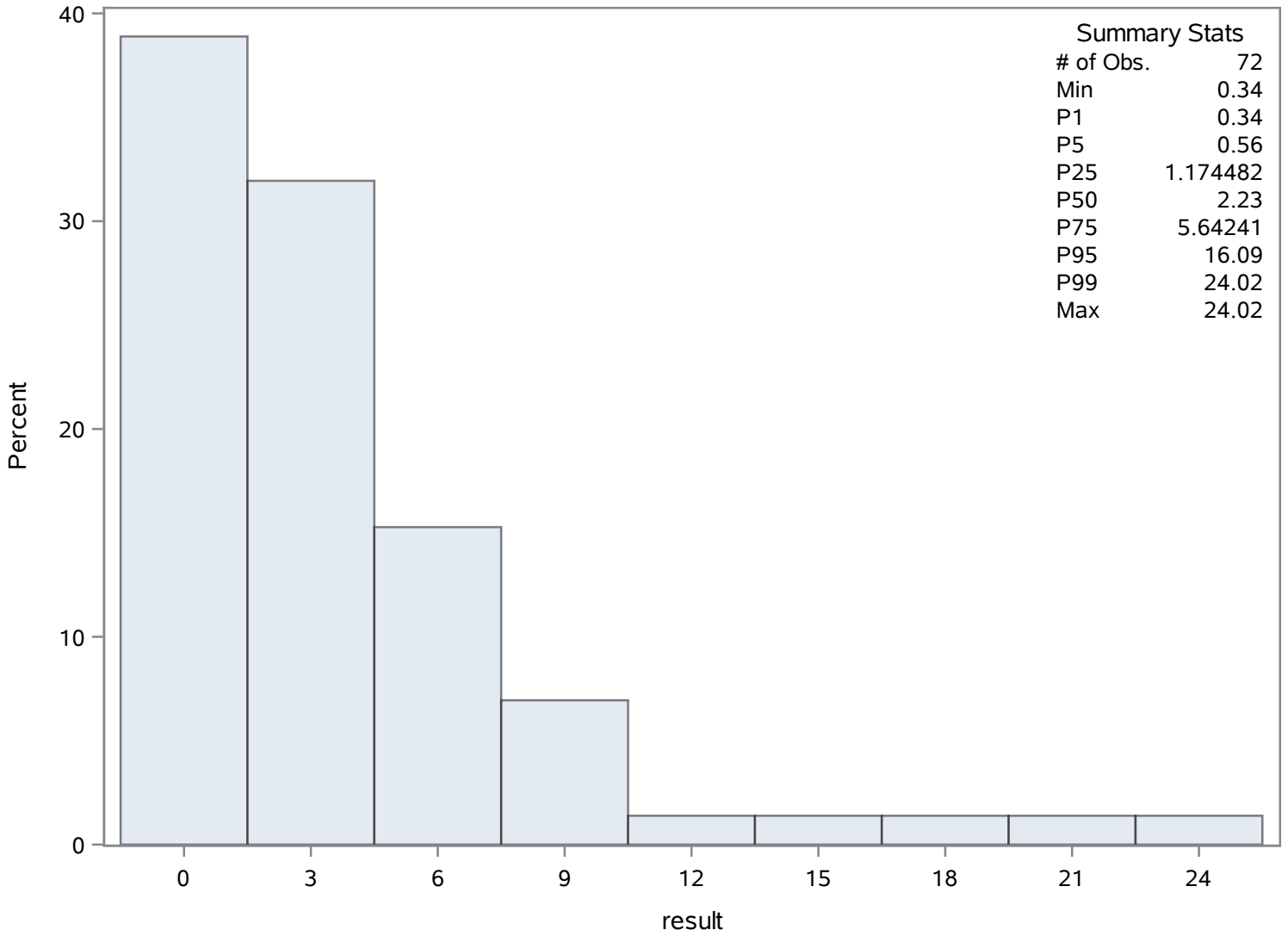
Quantiles (Definition 5)	
Level	Quantile
1%	0.34000
0% Min	0.34000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.340000	326	11.28	328
0.418965	312	16.09	331
0.450000	339	18.21	330
0.560000	338	19.78	316
0.560000	325	24.02	341

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.1666667	Sum Observations	851
Std Deviation	6.9572032	Variance	48.4026764
Skewness	5.10293413	Kurtosis	30.7666359
Uncorrected SS	11879	Corrected SS	6631.16667
Coeff Variation	112.819511	Std Error Mean	0.59223647

Basic Statistical Measures			
Location		Variability	
Mean	6.166667	Std Deviation	6.95720
Median	5.000000	Variance	48.40268
Mode	4.000000	Range	53.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.41251	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	54
99%	52
95%	15
90%	10
75% Q3	7
50% Median	5
25% Q1	3
10%	2
5%	2
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
COLOR_PtCo

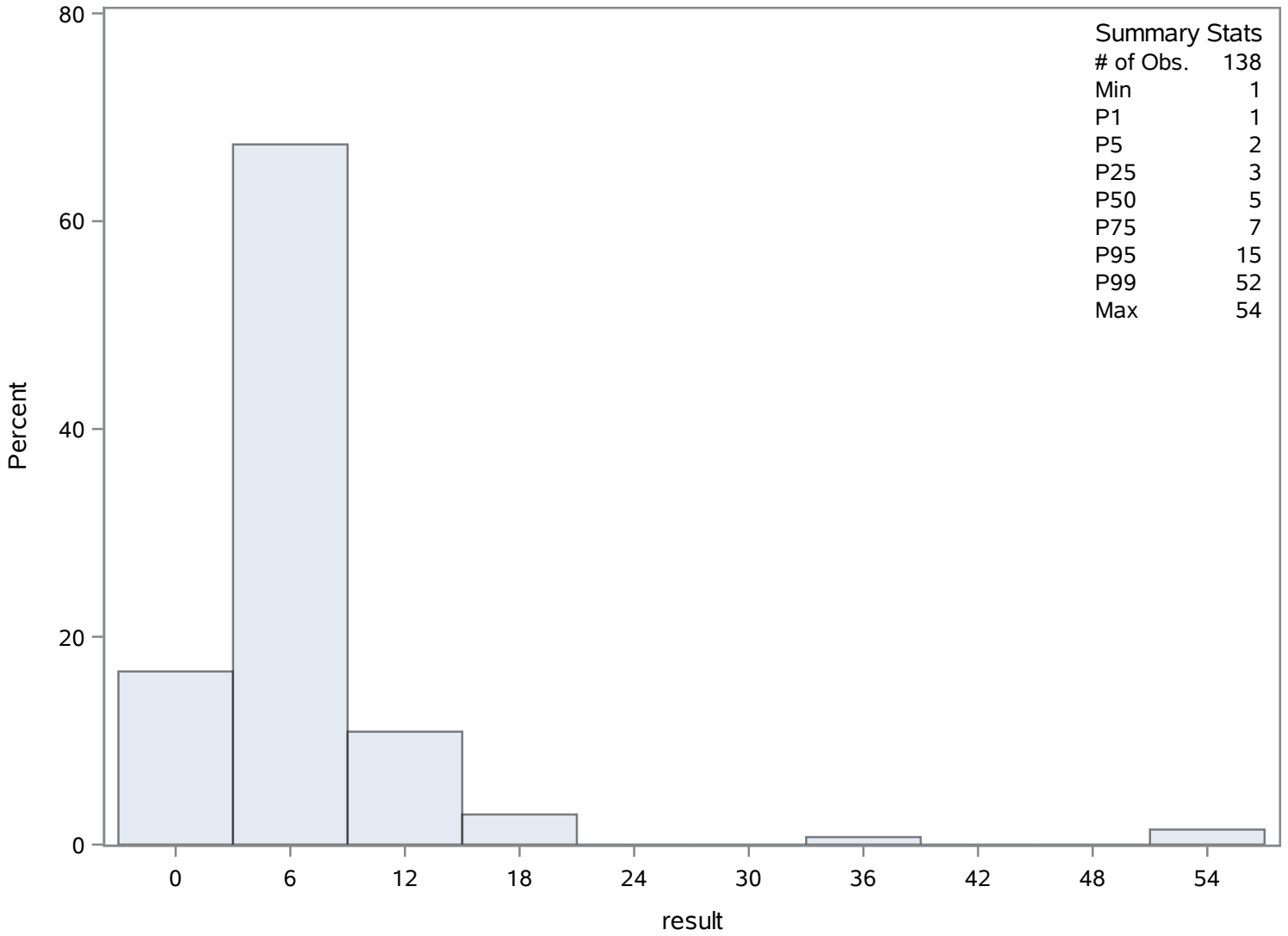
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	452	16	434
1	371	17	433
2	480	35	481
2	479	52	482
2	478	54	483

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8.50768116	Sum Observations	1174.06
Std Deviation	2.73987034	Variance	7.50688947
Skewness	0.54197444	Kurtosis	0.49713112
Uncorrected SS	11016.972	Corrected SS	1028.44386
Coeff Variation	32.2046664	Std Error Mean	0.23323325

Basic Statistical Measures			
Location		Variability	
Mean	8.507681	Std Deviation	2.73987
Median	8.350000	Variance	7.50689
Mode	6.100000	Range	13.69000
		Interquartile Range	3.36000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	36.47714	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16.59
99%	16.37
95%	13.40
90%	12.35
75% Q3	10.03
50% Median	8.35
25% Q1	6.67
10%	5.00
5%	4.38

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
DO_mgL

The UNIVARIATE Procedure
Variable: result

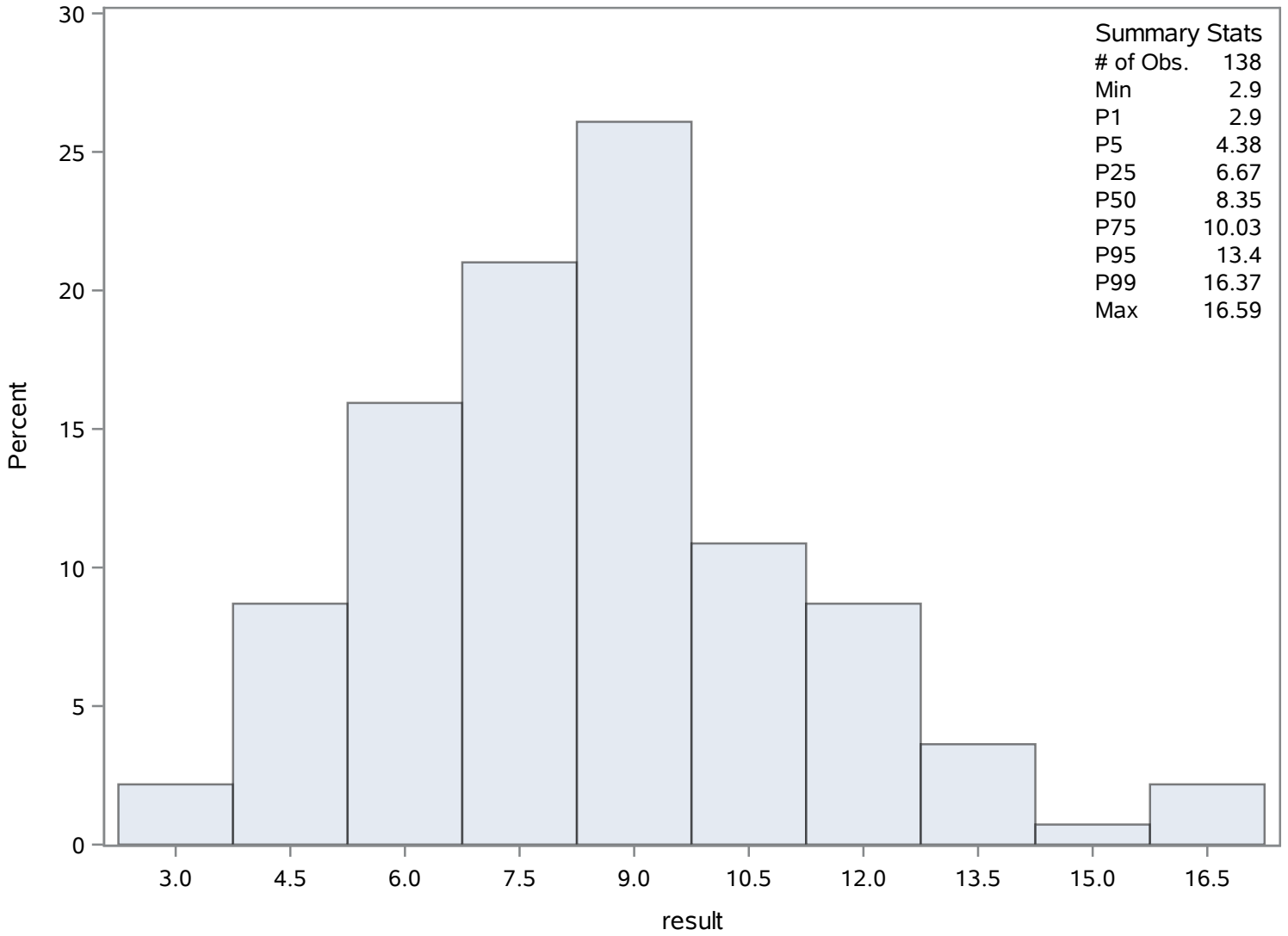
Quantiles (Definition 5)	
Level	Quantile
1%	2.90
0% Min	2.90

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.90	515	13.88	622
2.90	514	15.68	581
3.00	516	16.10	566
3.86	619	16.37	582
4.10	500	16.59	580

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	20.5789855	Sum Observations	2839.9
Std Deviation	11.6470256	Variance	135.653205
Skewness	1.08545856	Kurtosis	2.59757861
Uncorrected SS	77026.75	Corrected SS	18584.4891
Coeff Variation	56.5966946	Std Error Mean	0.99146066

Basic Statistical Measures			
Location		Variability	
Mean	20.57899	Std Deviation	11.64703
Median	20.00000	Variance	135.65320
Mode	20.00000	Range	67.00000
		Interquartile Range	14.00000

Note: The mode displayed is the smallest of 3 modes with a count of 7.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.75623	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	68
99%	63
95%	39
90%	35
75% Q3	27
50% Median	20
25% Q1	13
10%	6
5%	4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NH4_ugl

The UNIVARIATE Procedure
Variable: result

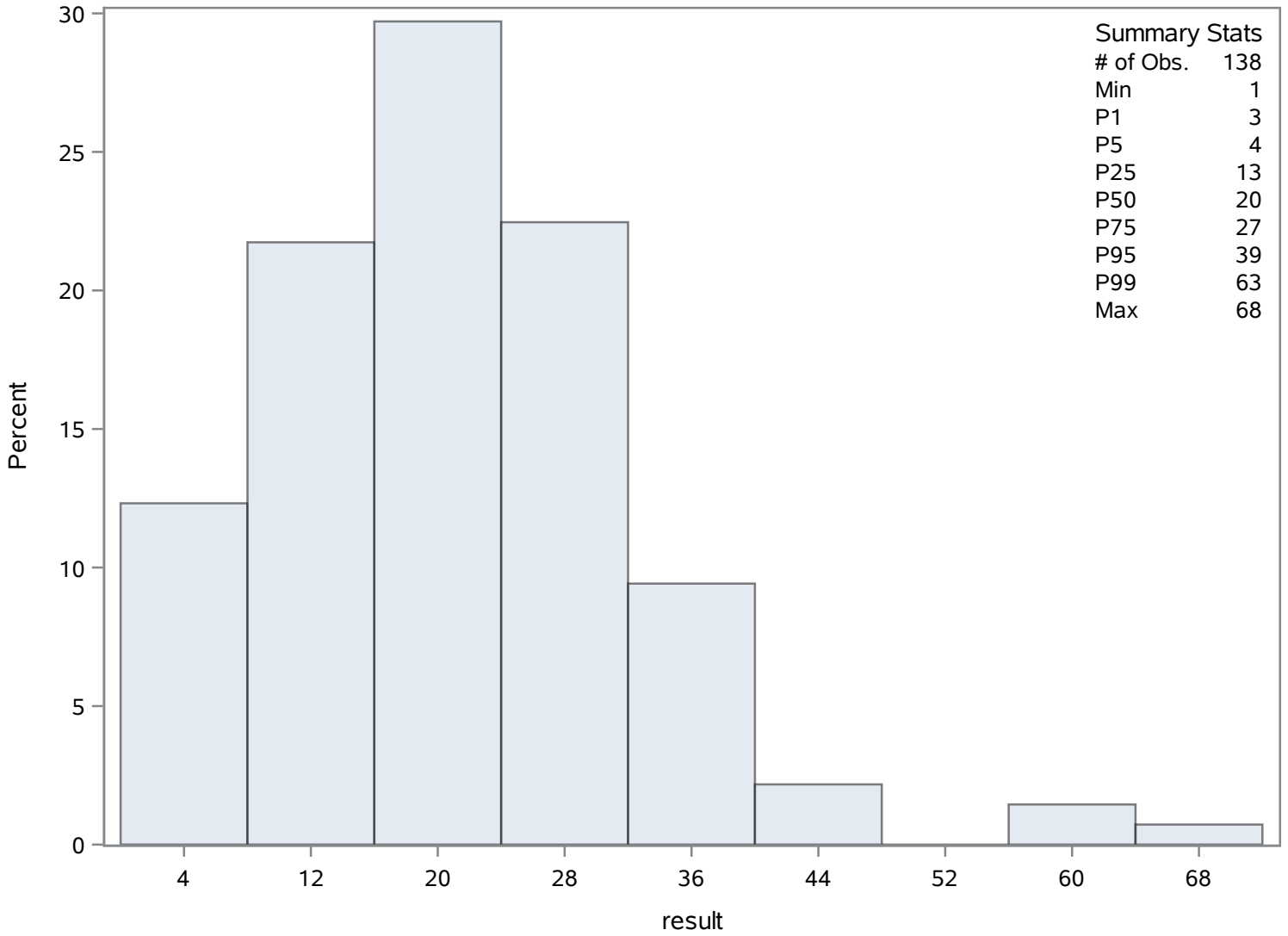
Quantiles (Definition 5)	
Level	Quantile
1%	3
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	645	42	633
3	709	42	707
3	690	60	692
3	686	63	693
3	667	68	691

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	349.813768	Sum Observations	48274.3
Std Deviation	113.52979	Variance	12889.0133
Skewness	-0.612027	Kurtosis	-0.3034224
Uncorrected SS	18652809.6	Corrected SS	1765794.82
Coeff Variation	32.4543516	Std Error Mean	9.66429755

Basic Statistical Measures			
Location		Variability	
Mean	349.8138	Std Deviation	113.52979
Median	375.0000	Variance	12889
Mode	273.0000	Range	496.00000
		Interquartile Range	165.00000

Note: The mode displayed is the smallest of 8 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	36.1965	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	544.0
99%	540.0
95%	500.0
90%	479.0
75% Q3	445.0
50% Median	375.0
25% Q1	280.0
10%	178.8
5%	130.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NO3_ugL

The UNIVARIATE Procedure
Variable: result

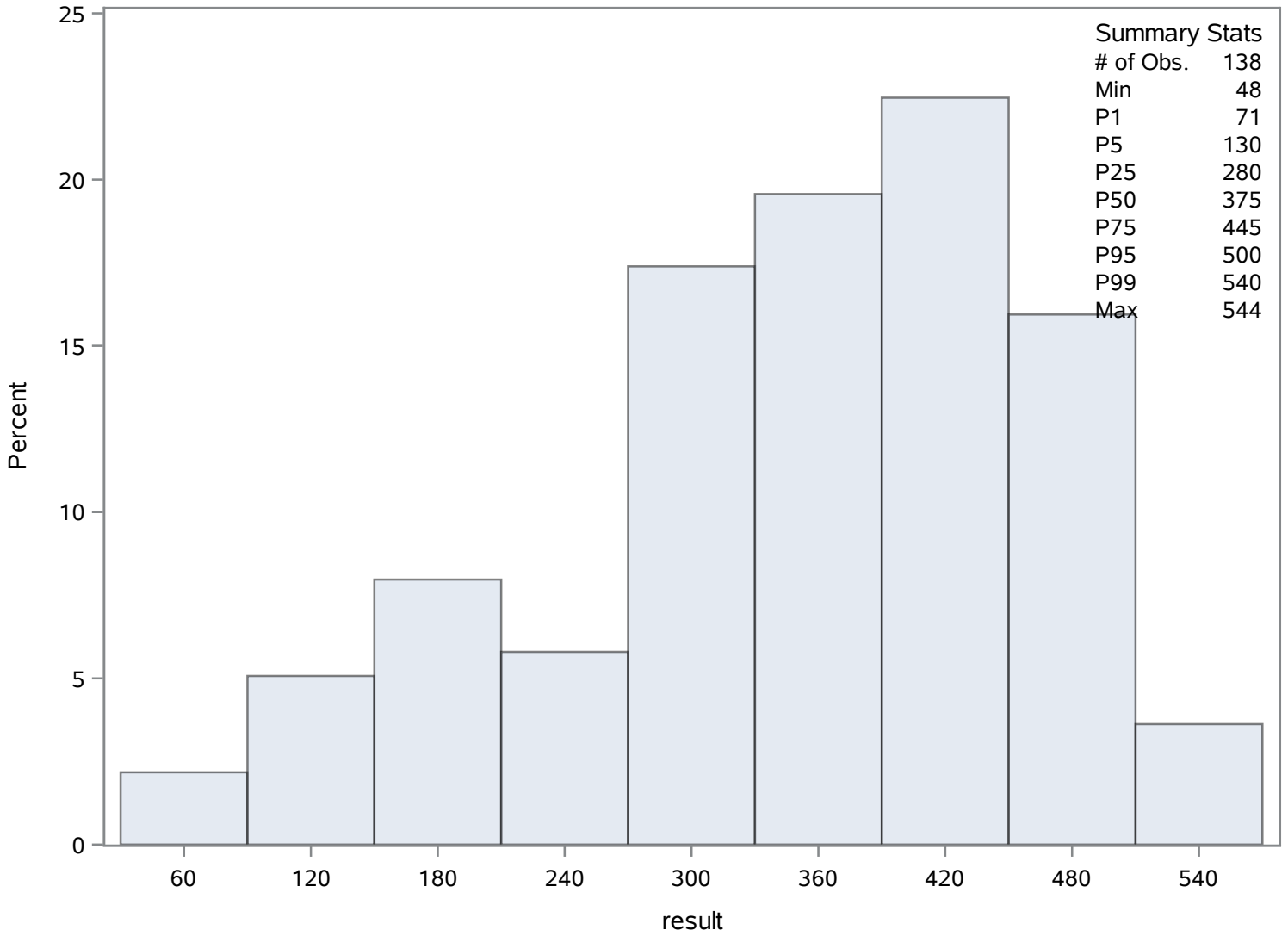
Quantiles (Definition 5)	
Level	Quantile
1%	71.0
0% Min	48.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
48	787	511	866
71	788	517	867
85	789	539	871
90	801	540	872
113	856	544	873

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	2.36623188	Sum Observations	326.54
Std Deviation	0.6770505	Variance	0.45839738
Skewness	0.75533603	Kurtosis	1.39528822
Uncorrected SS	835.4698	Corrected SS	62.8004406
Coeff Variation	28.613024	Std Error Mean	0.05763437

Basic Statistical Measures			
Location		Variability	
Mean	2.366232	Std Deviation	0.67705
Median	2.325000	Variance	0.45840
Mode	1.700000	Range	3.60000
		Interquartile Range	0.97000

Note: The mode displayed is the smallest of 5 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	41.05592	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.780
99%	4.770
95%	3.360
90%	3.100
75% Q3	2.840
50% Median	2.325
25% Q1	1.870
10%	1.560
5%	1.390

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SAL_Perc

The UNIVARIATE Procedure
Variable: result

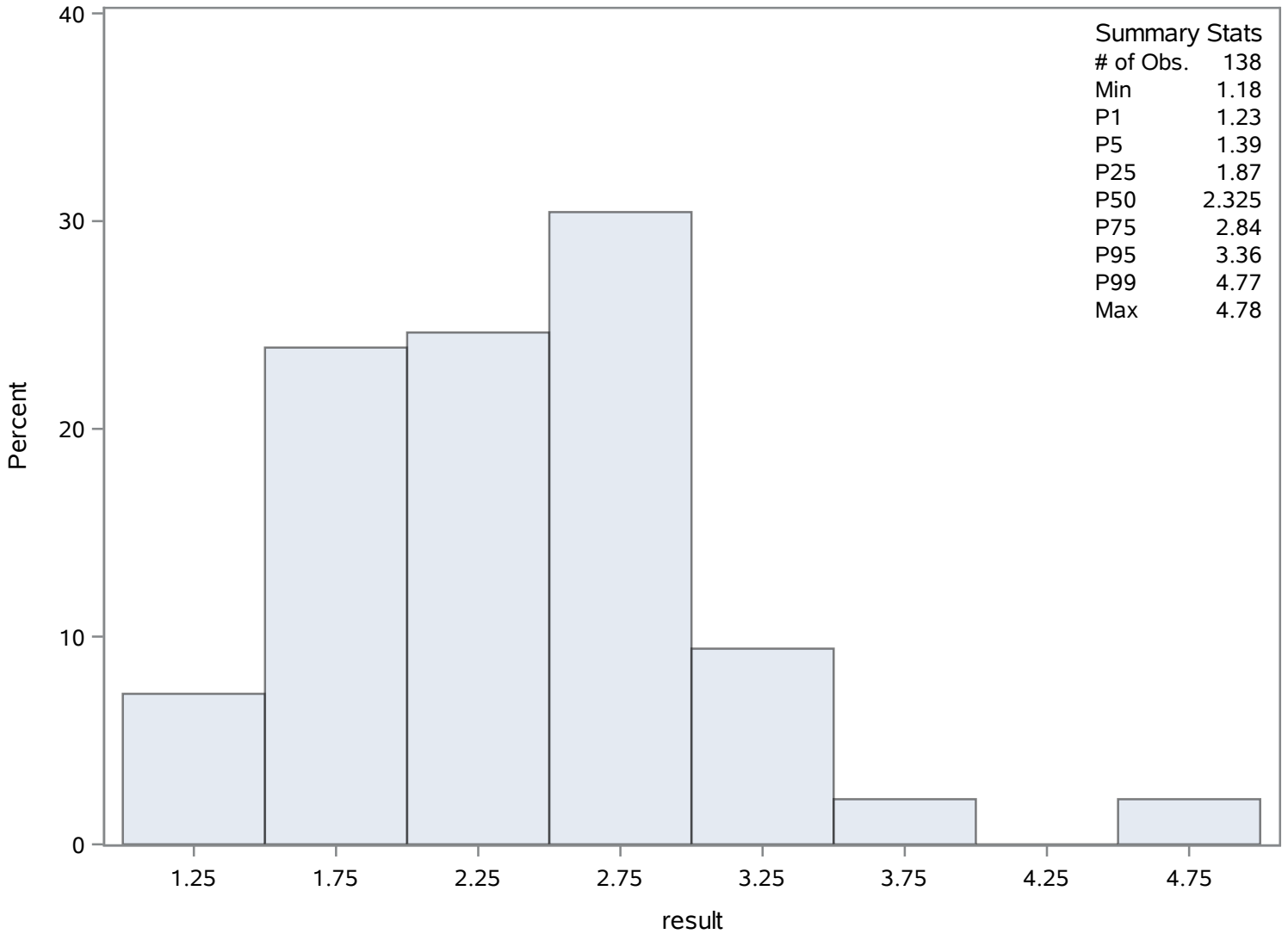
Quantiles (Definition 5)	
Level	Quantile
1%	1.230
0% Min	1.180

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.18	957	3.52	1007
1.23	956	3.58	1006
1.24	958	4.56	987
1.26	955	4.77	986
1.28	959	4.78	985

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.42950725	Sum Observations	611.272
Std Deviation	1.21094895	Variance	1.46639736
Skewness	0.78433393	Kurtosis	1.52813551
Uncorrected SS	2908.53019	Corrected SS	200.896438
Coeff Variation	27.3382316	Std Error Mean	0.10308282

Basic Statistical Measures			
Location		Variability	
Mean	4.429507	Std Deviation	1.21095
Median	4.304500	Variance	1.46640
Mode	3.560000	Range	6.49500
		Interquartile Range	1.76400

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	42.97037	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.7950
99%	8.7760
95%	6.1800
90%	5.7500
75% Q3	5.2940
50% Median	4.3045
25% Q1	3.5300
10%	2.9800
5%	2.6800

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

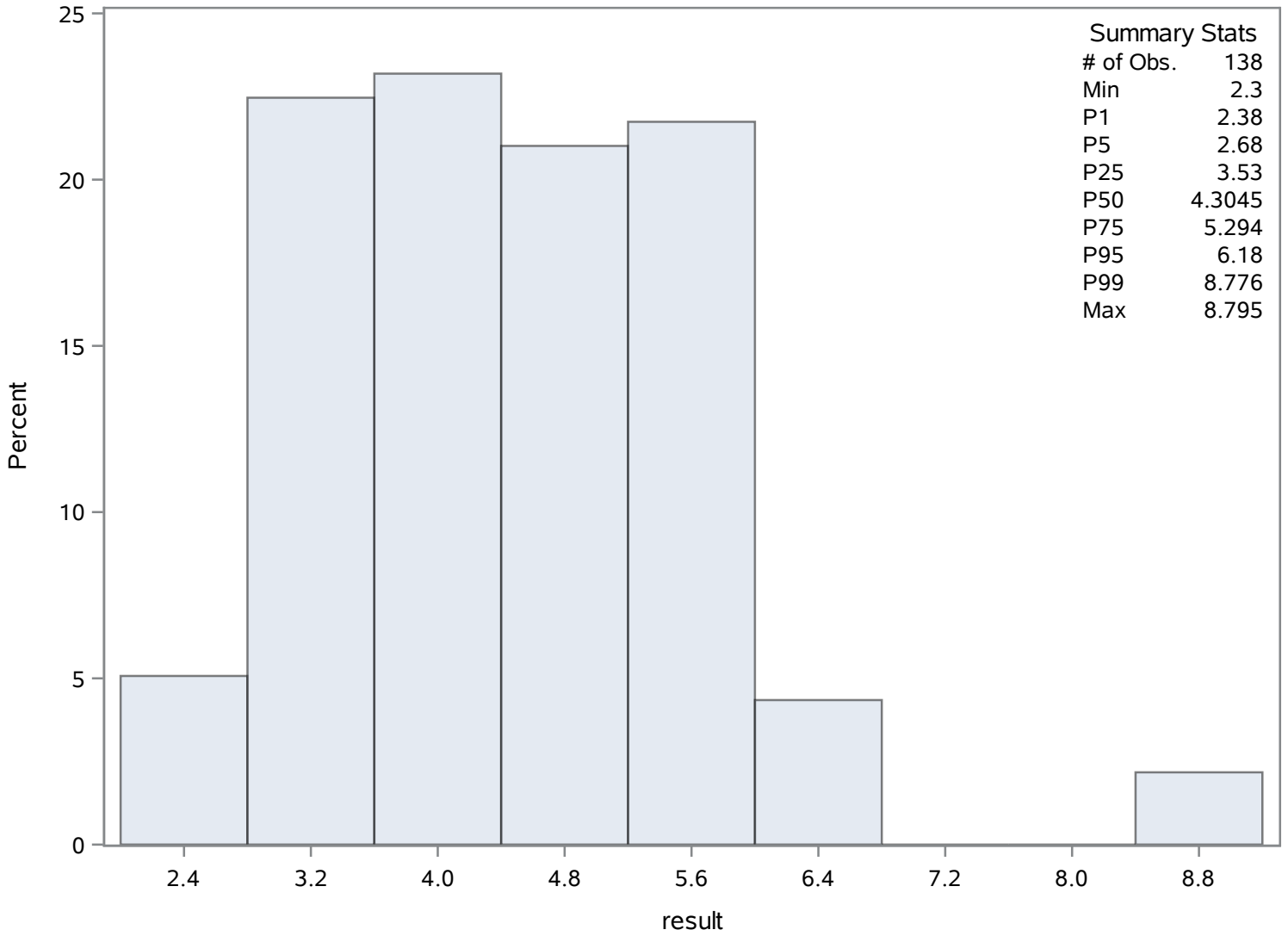
Quantiles (Definition 5)	
Level	Quantile
1%	2.3800
0% Min	2.3000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.30	1095	6.431	1145
2.38	1094	6.539	1144
2.42	1096	8.414	1125
2.45	1093	8.776	1124
2.48	1097	8.795	1123

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	10.1555556	Sum Observations	1371
Std Deviation	3.81838965	Variance	14.5800995
Skewness	-0.3792386	Kurtosis	-0.9845321
Uncorrected SS	15877	Corrected SS	1953.73333
Coeff Variation	37.5990228	Std Error Mean	0.32863466

Basic Statistical Measures			
Location		Variability	
Mean	10.15556	Std Deviation	3.81839
Median	11.00000	Variance	14.58010
Mode	12.00000	Range	15.00000
		Interquartile Range	6.00000

Note: The mode displayed is the smallest of 2 modes with a count of 16.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	30.90227	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	17
99%	17
95%	15
90%	15
75% Q3	13
50% Median	11
25% Q1	7
10%	4
5%	4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SRP_ugL

The UNIVARIATE Procedure
Variable: result

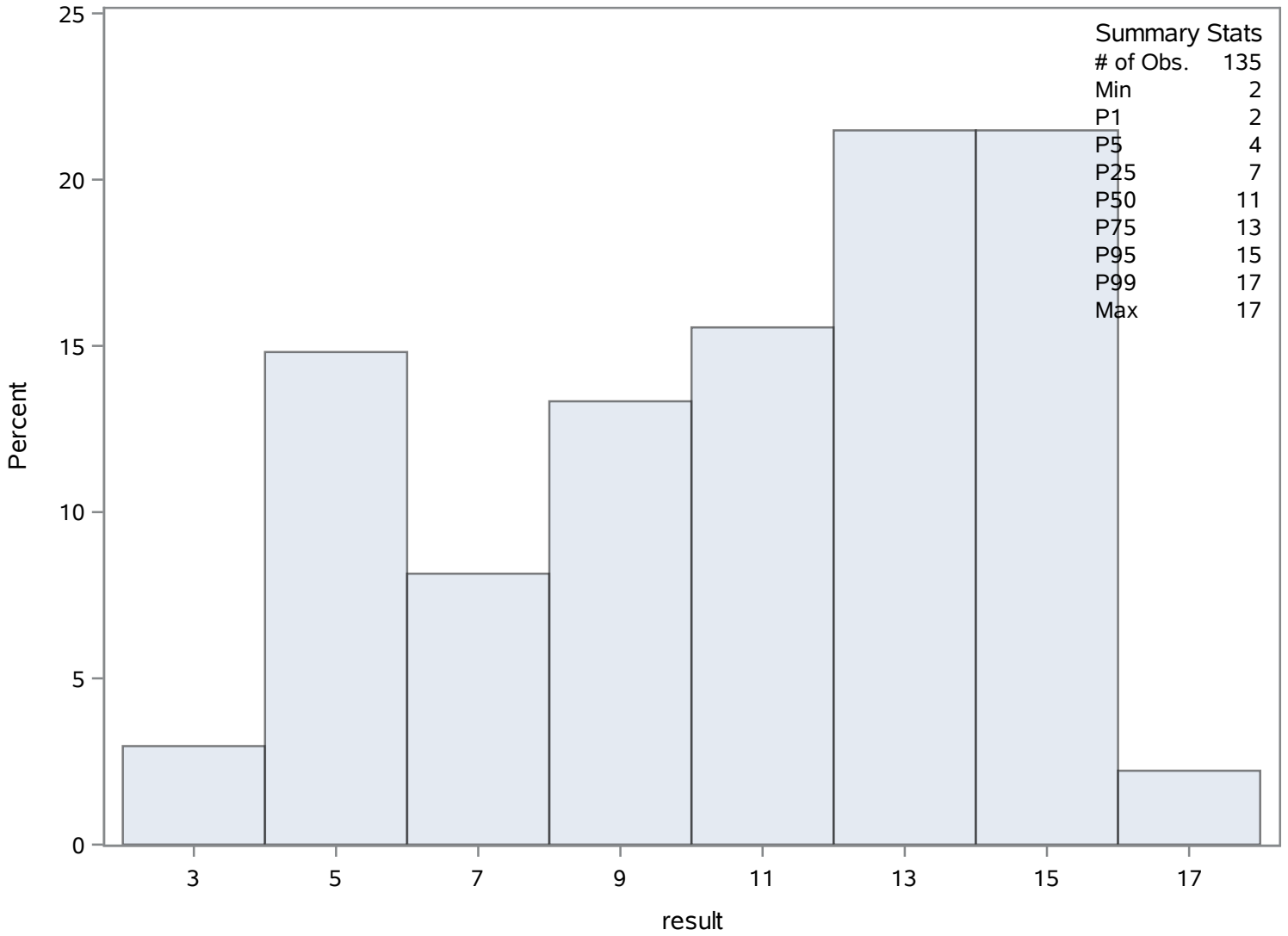
Quantiles (Definition 5)	
Level	Quantile
1%	2
0% Min	2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	1267	15	1306
2	1210	15	1307
3	1269	16	1288
3	1218	17	1241
4	1293	17	1242

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.6857246	Sum Observations	3268.63
Std Deviation	1.75133479	Variance	3.06717356
Skewness	0.12651251	Kurtosis	-0.4660743
Uncorrected SS	77840.0729	Corrected SS	420.202778
Coeff Variation	7.39405199	Std Error Mean	0.14908352

Basic Statistical Measures			
Location		Variability	
Mean	23.68572	Std Deviation	1.75133
Median	23.70000	Variance	3.06717
Mode	23.60000	Range	8.10000
		Interquartile Range	2.29000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	158.8755	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	27.70
99%	27.41
95%	26.70
90%	26.20
75% Q3	24.69
50% Median	23.70
25% Q1	22.40
10%	21.20
5%	20.92

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TEMP_C

The UNIVARIATE Procedure
Variable: result

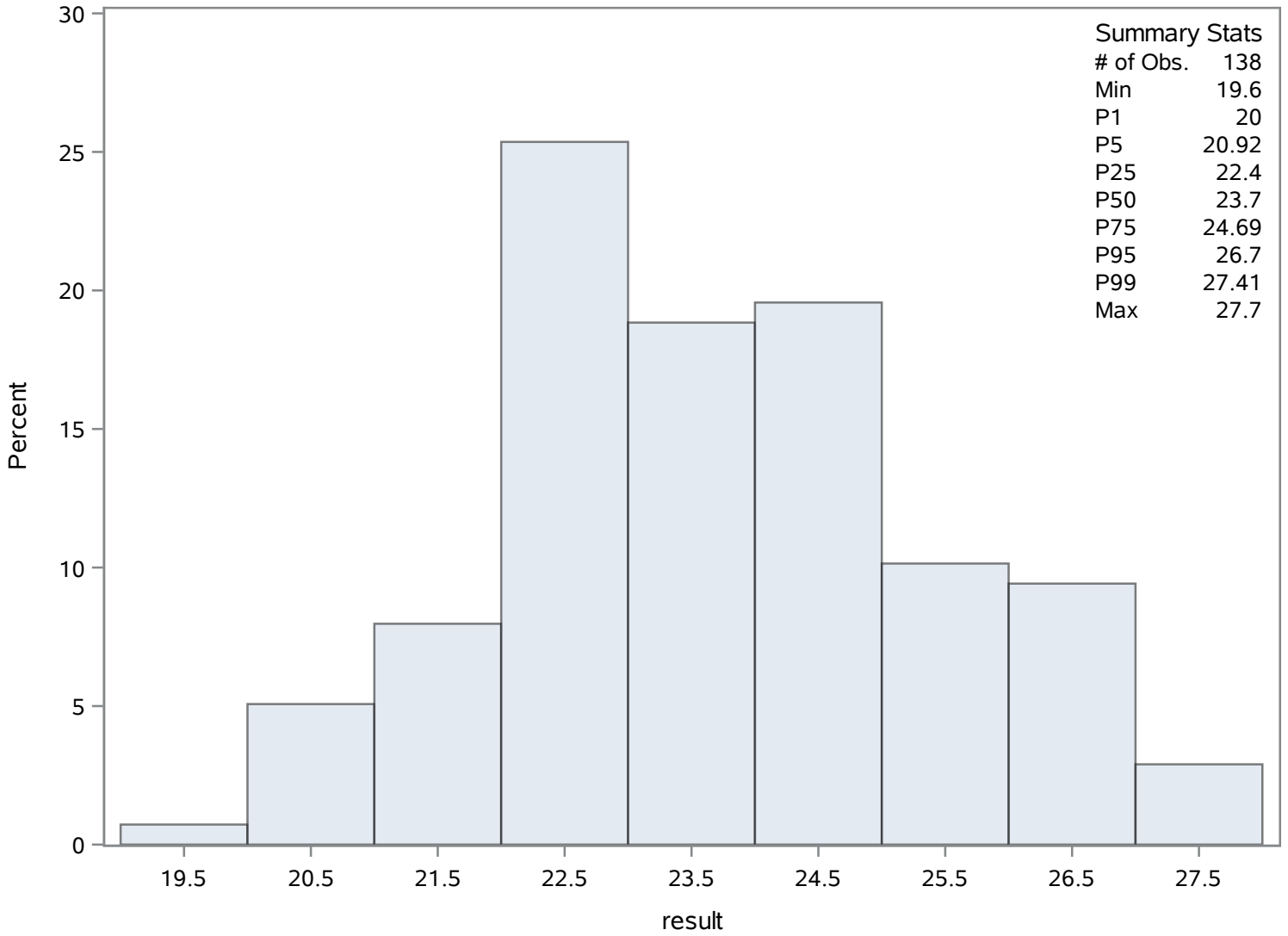
Quantiles (Definition 5)	
Level	Quantile
1%	20.00
0% Min	19.60

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19.60	1342	26.90	1431
20.00	1344	27.21	1406
20.00	1343	27.29	1407
20.50	1323	27.41	1405
20.75	1380	27.70	1336

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	462.847826	Sum Observations	63873
Std Deviation	122.278246	Variance	14951.9694
Skewness	0.48635989	Kurtosis	1.17031954
Uncorrected SS	31611899	Corrected SS	2048419.8
Coeff Variation	26.4186713	Std Error Mean	10.4090155

Basic Statistical Measures			
Location		Variability	
Mean	462.8478	Std Deviation	122.27825
Median	460.0000	Variance	14952
Mode	470.0000	Range	740.00000
		Interquartile Range	150.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	44.46605	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	950
99%	760
95%	660
90%	610
75% Q3	540
50% Median	460
25% Q1	390
10%	307
5%	260
1%	210
0% Min	210

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TN_ugl

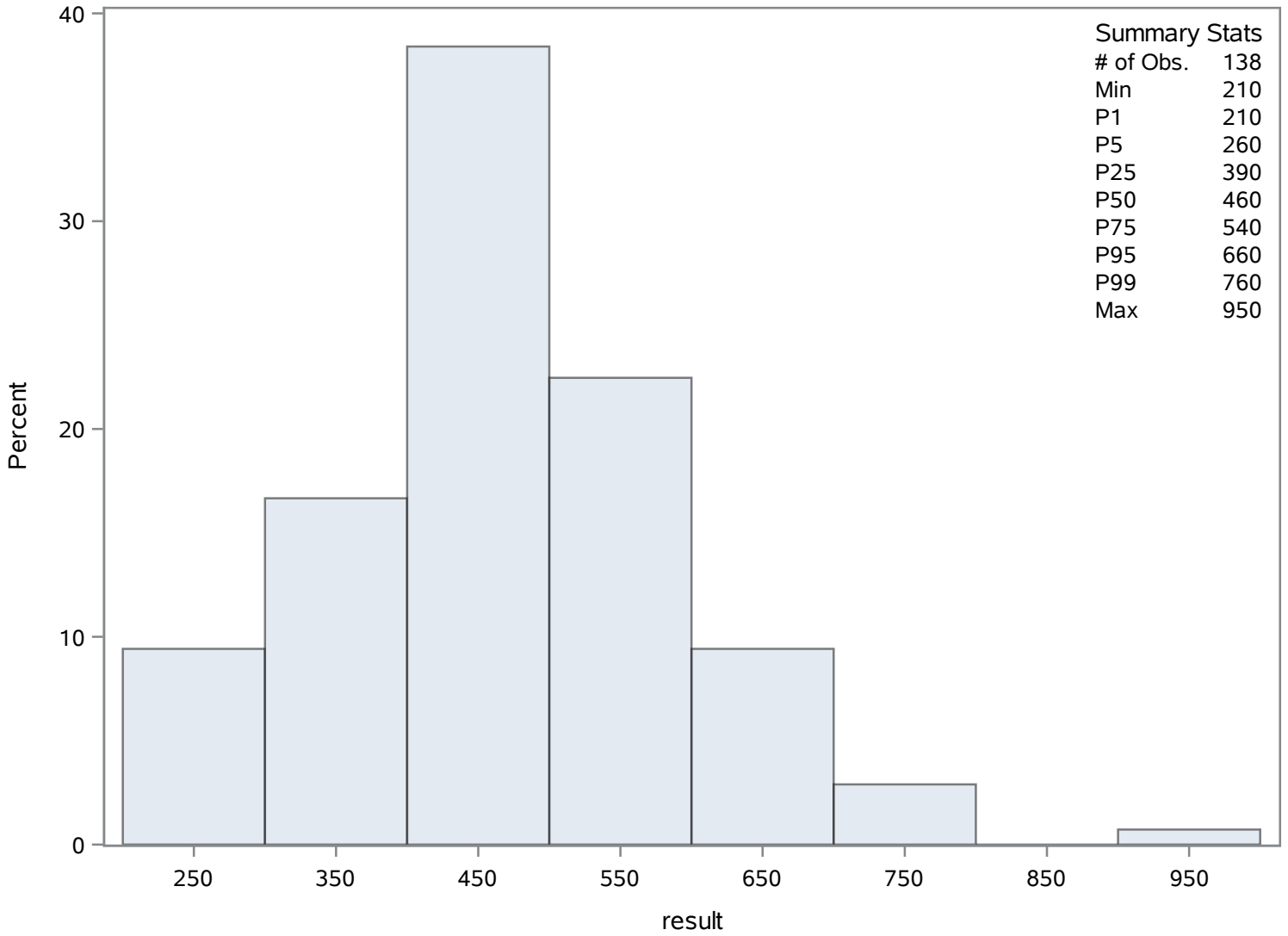
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
210	1500	710	1539
210	1475	730	1582
220	1463	730	1584
230	1498	760	1583
240	1462	950	1570

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	19.1811594	Sum Observations	2647
Std Deviation	6.08604423	Variance	37.0399344
Skewness	1.87661194	Kurtosis	8.01256663
Uncorrected SS	55847	Corrected SS	5074.47101
Coeff Variation	31.7292824	Std Error Mean	0.51807849

Basic Statistical Measures			
Location		Variability	
Mean	19.18116	Std Deviation	6.08604
Median	18.00000	Variance	37.03993
Mode	18.00000	Range	45.00000
		Interquartile Range	7.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	37.02366	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	55
99%	38
95%	29
90%	27
75% Q3	22
50% Median	18
25% Q1	15
10%	12
5%	11
1%	11
0% Min	10

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TP_ugl

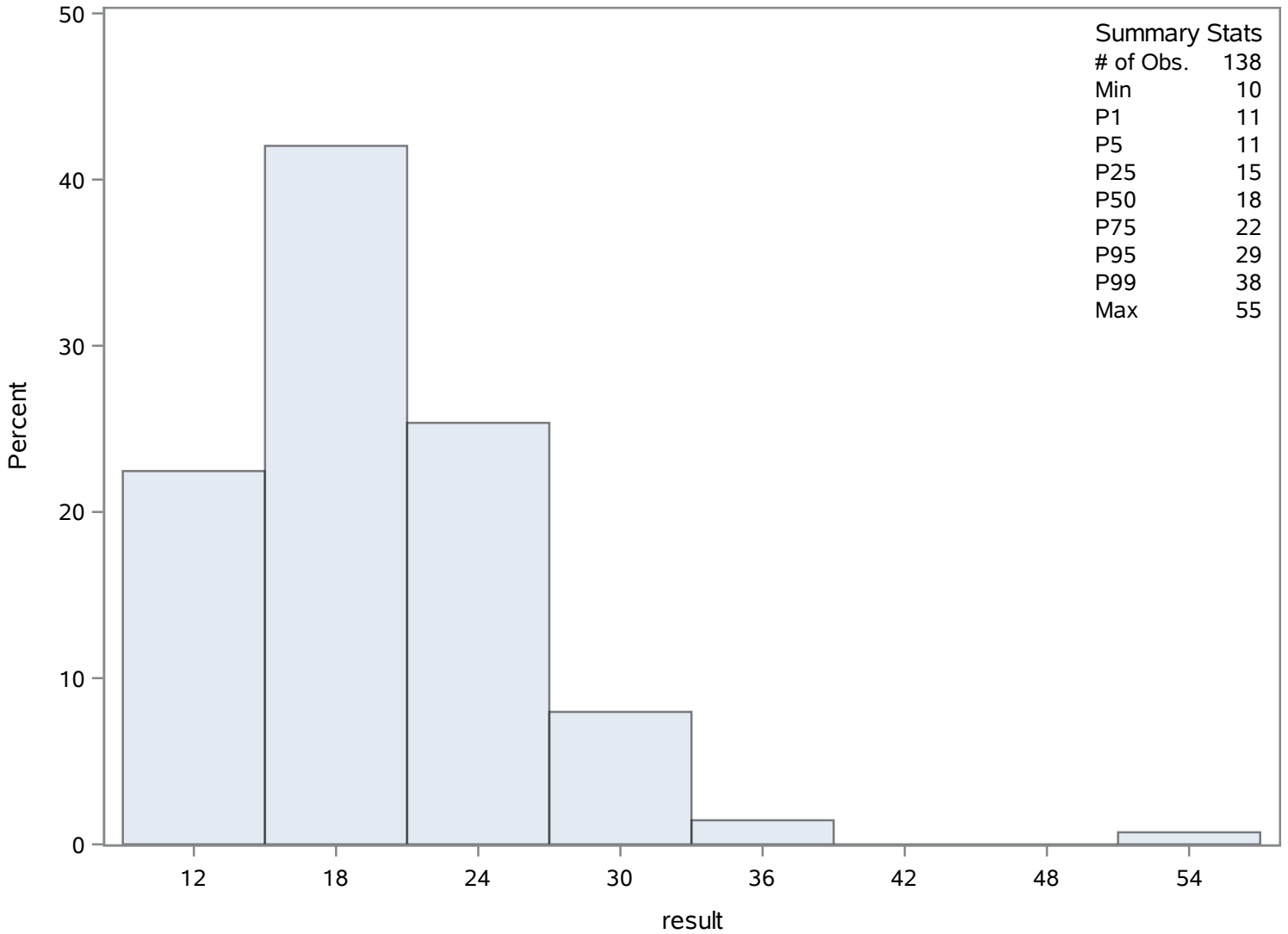
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	1693	30	1721
11	1706	31	1655
11	1683	33	1673
11	1668	38	1677
11	1667	55	1708

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: UF 5 Rivers Study

Transect 5

pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.88157407	Sum Observations	851.21
Std Deviation	0.33248473	Variance	0.1105461
Skewness	0.40660125	Kurtosis	-0.1777875
Uncorrected SS	6720.7031	Corrected SS	11.8284324
Coeff Variation	4.21850673	Std Error Mean	0.03199336

Basic Statistical Measures			
Location		Variability	
Mean	7.881574	Std Deviation	0.33248
Median	7.865000	Variance	0.11055
Mode	7.870000	Range	1.68000
		Interquartile Range	0.53500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	246.3503	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.910
99%	8.730
95%	8.410
90%	8.320
75% Q3	8.145
50% Median	7.865
25% Q1	7.610
10%	7.460
5%	7.400
1%	7.330
0% Min	7.230

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Field

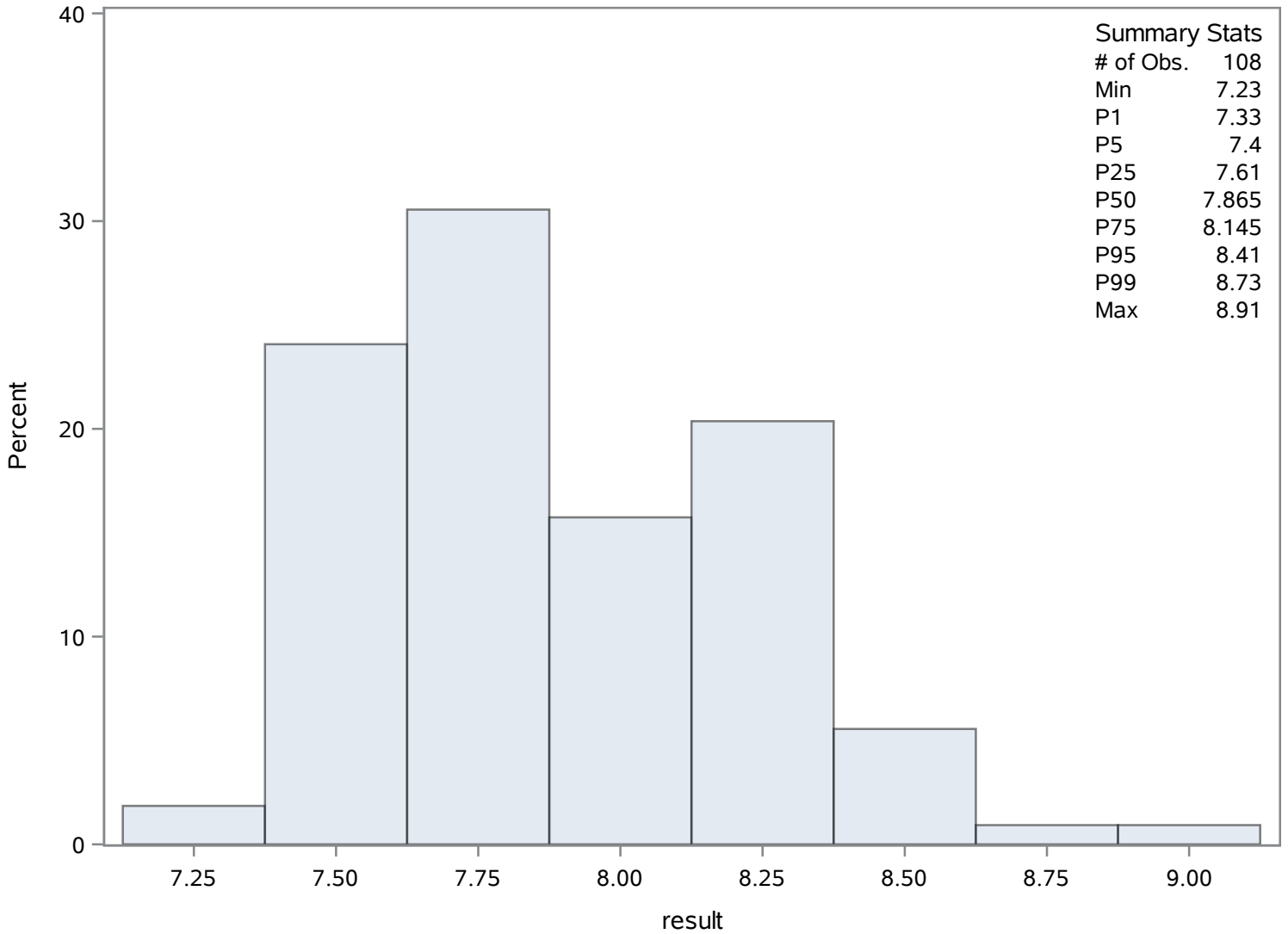
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.23	1780	8.45	1789
7.33	1781	8.45	1791
7.38	1816	8.56	1774
7.39	1828	8.73	1776
7.39	1782	8.91	1775

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8	Sum Observations	1104
Std Deviation	0.28871727	Variance	0.08335766
Skewness	0.6019635	Kurtosis	-0.173128
Uncorrected SS	8843.42	Corrected SS	11.42
Coeff Variation	3.60896592	Std Error Mean	0.02457725

Basic Statistical Measures			
Location		Variability	
Mean	8.000000	Std Deviation	0.28872
Median	7.900000	Variance	0.08336
Mode	7.900000	Range	1.20000
		Interquartile Range	0.40000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	325.5043	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.7
99%	8.7
95%	8.6
90%	8.4
75% Q3	8.2
50% Median	7.9
25% Q1	7.8
10%	7.7
5%	7.6
1%	7.5
0% Min	7.5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Lab

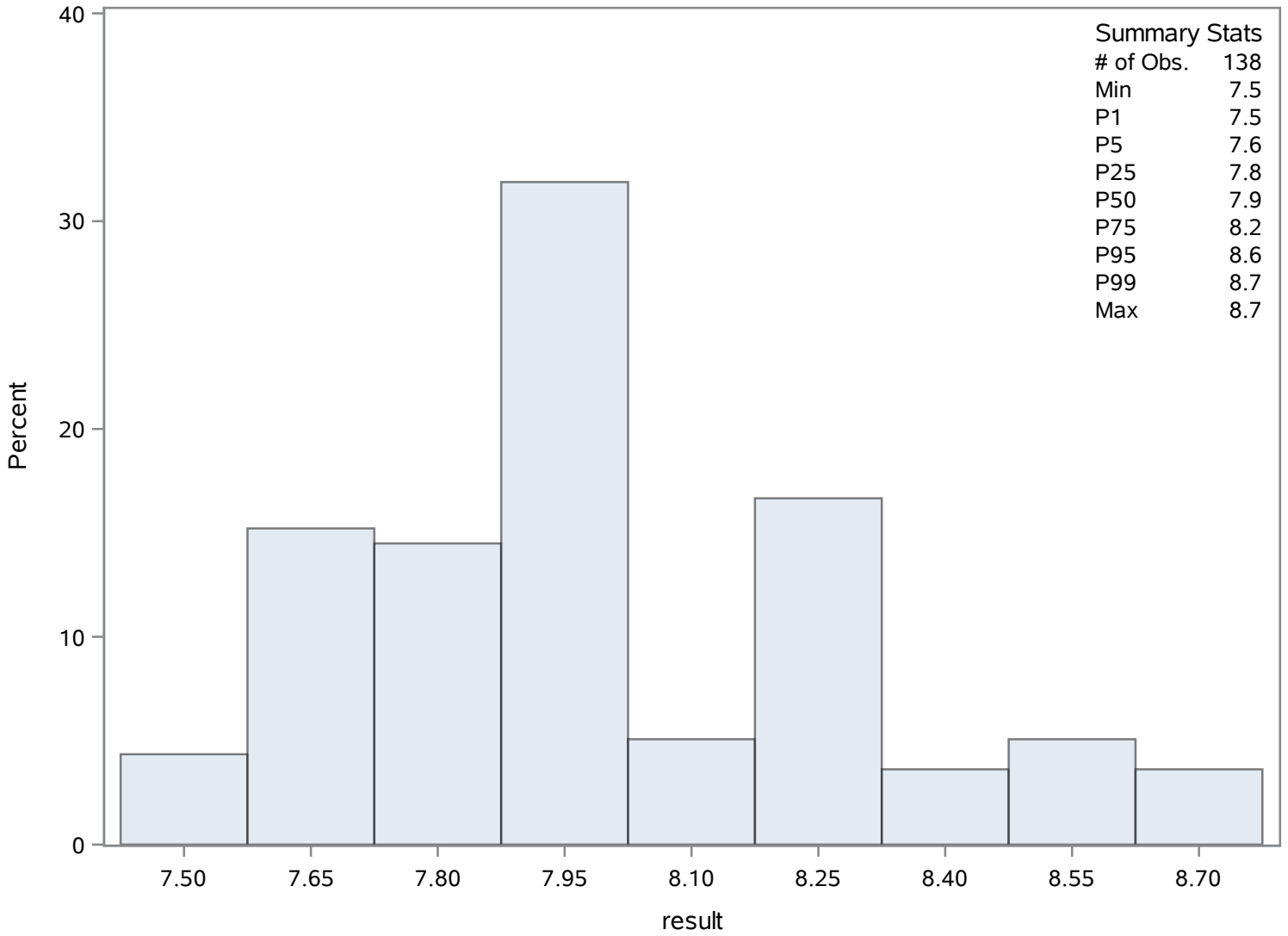
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.5	1968	8.7	1858
7.5	1967	8.7	1913
7.5	1966	8.7	1927
7.5	1863	8.7	1928
7.5	1862	8.7	1929

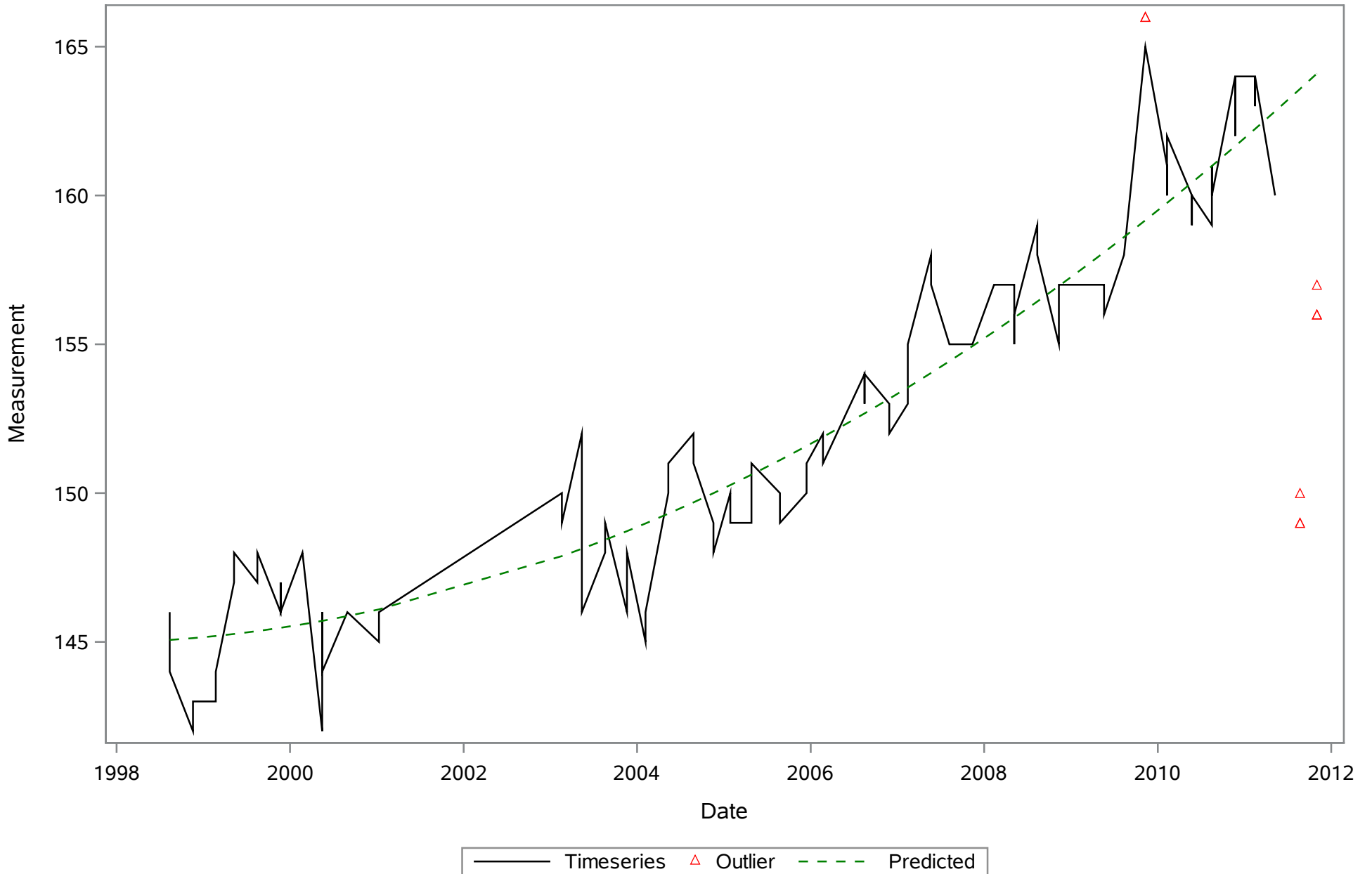
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Lab

The UNIVARIATE Procedure

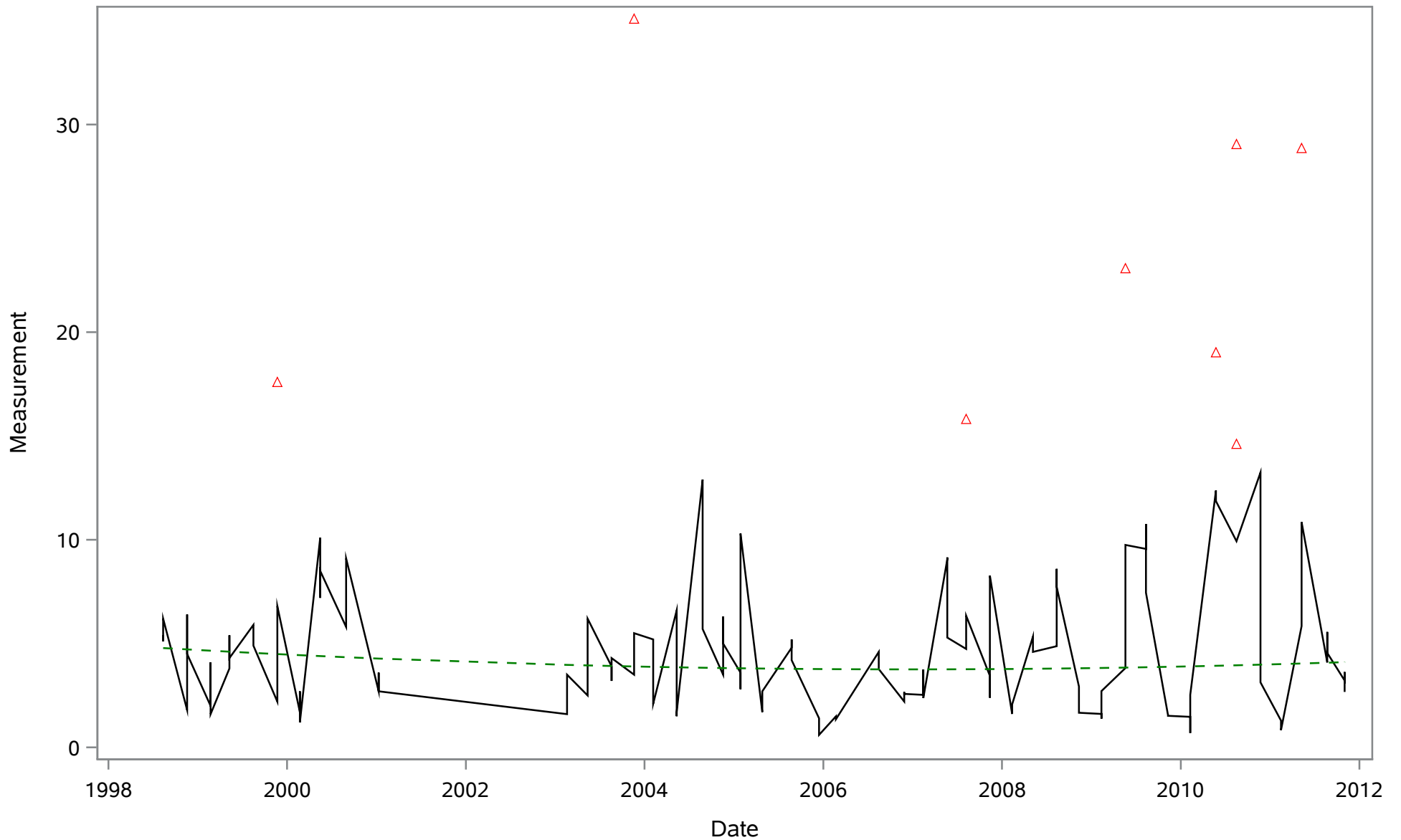
Distribution of result



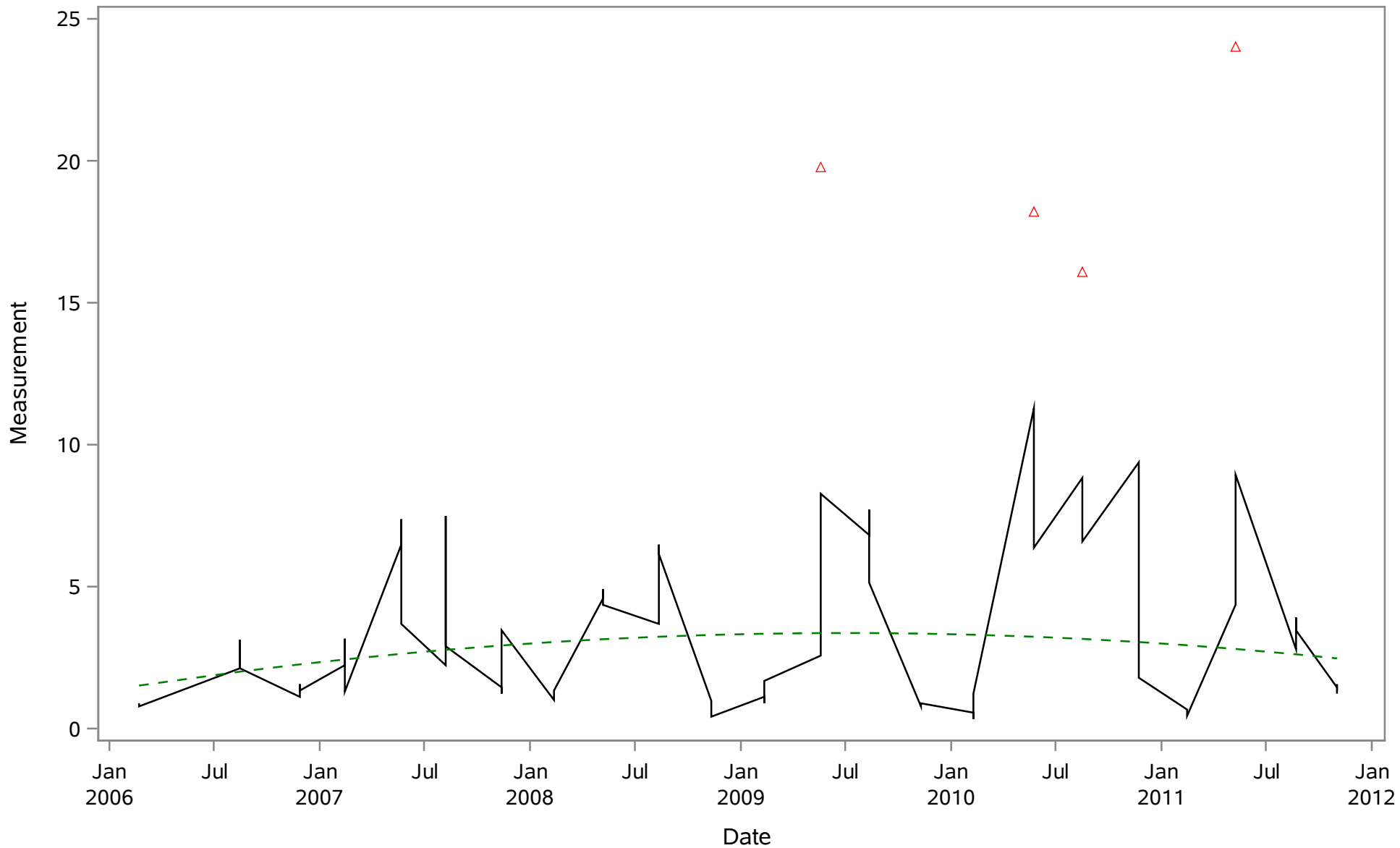
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_Uncor_ugL

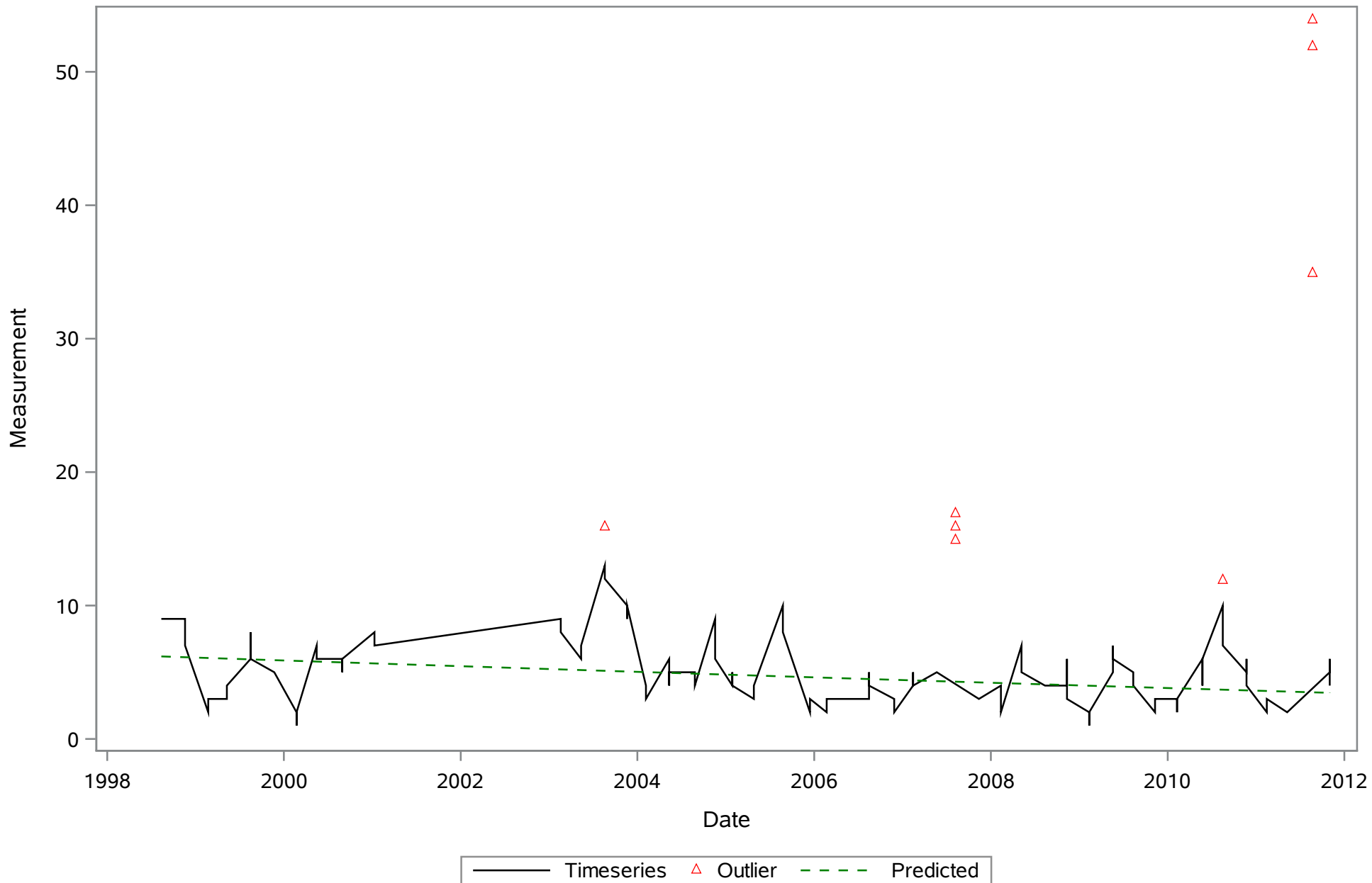


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_cor_ugl

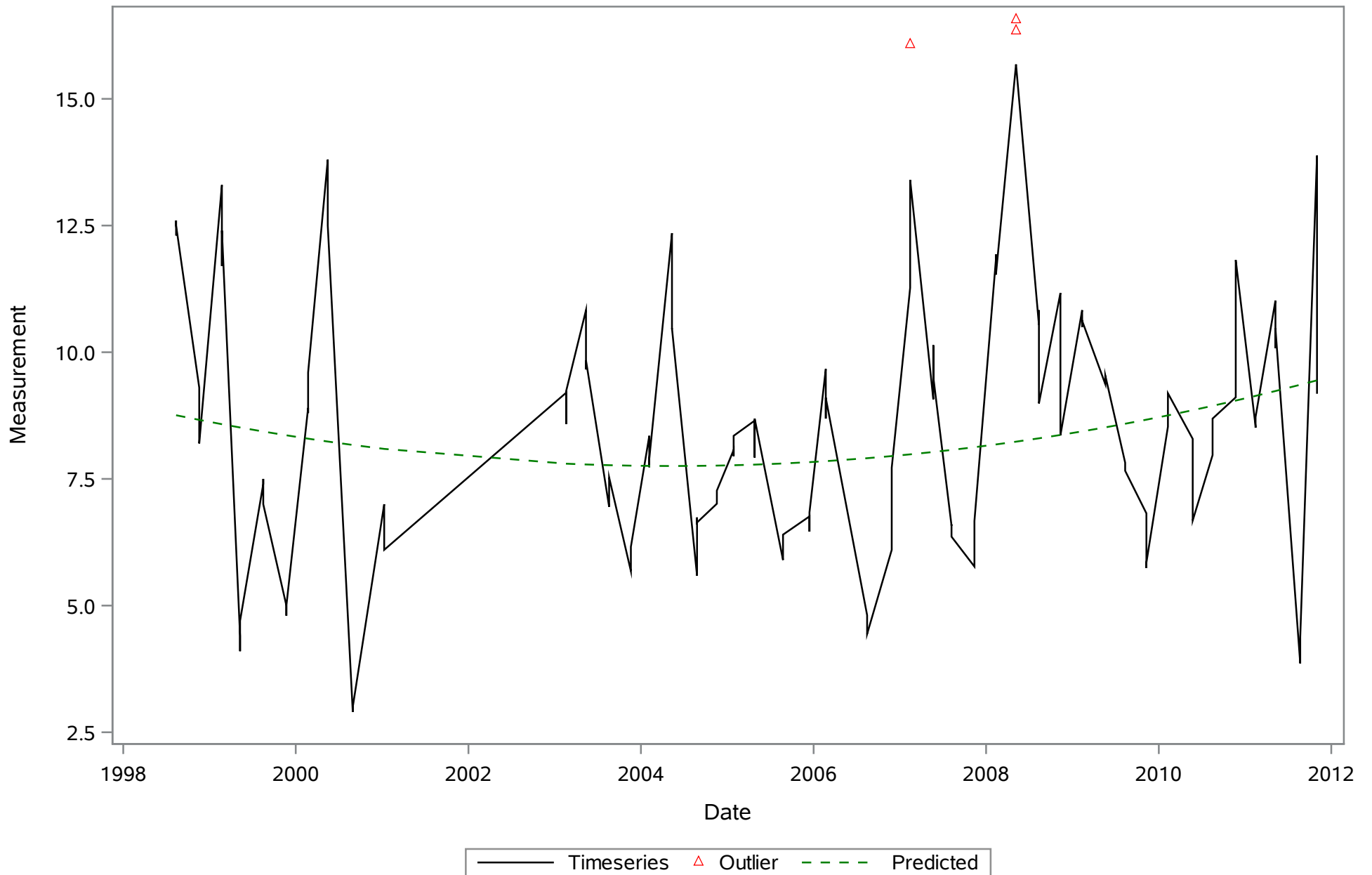


— Timeseries △ Outlier - - - Predicted

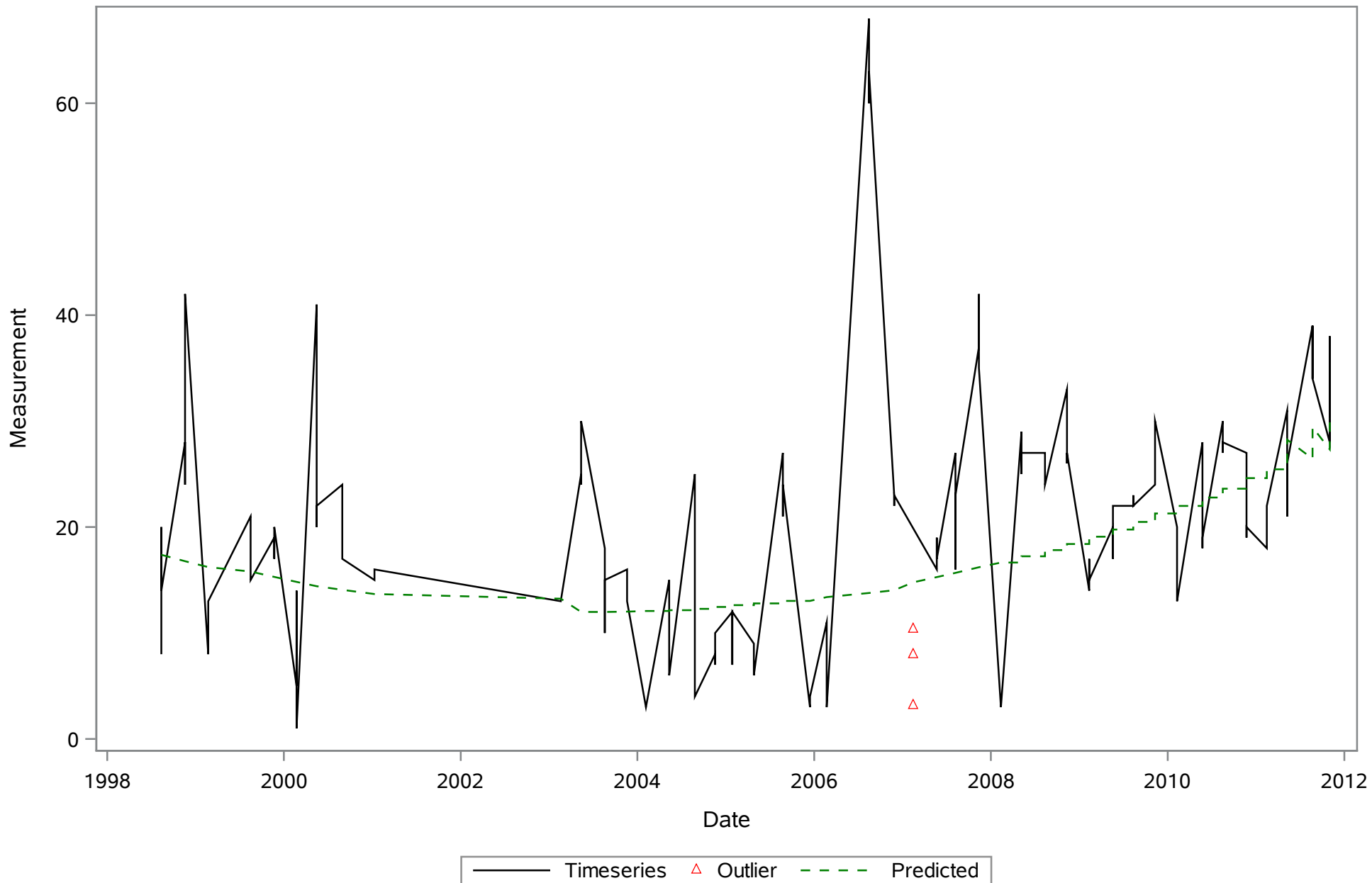
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
COLOR_PtCo



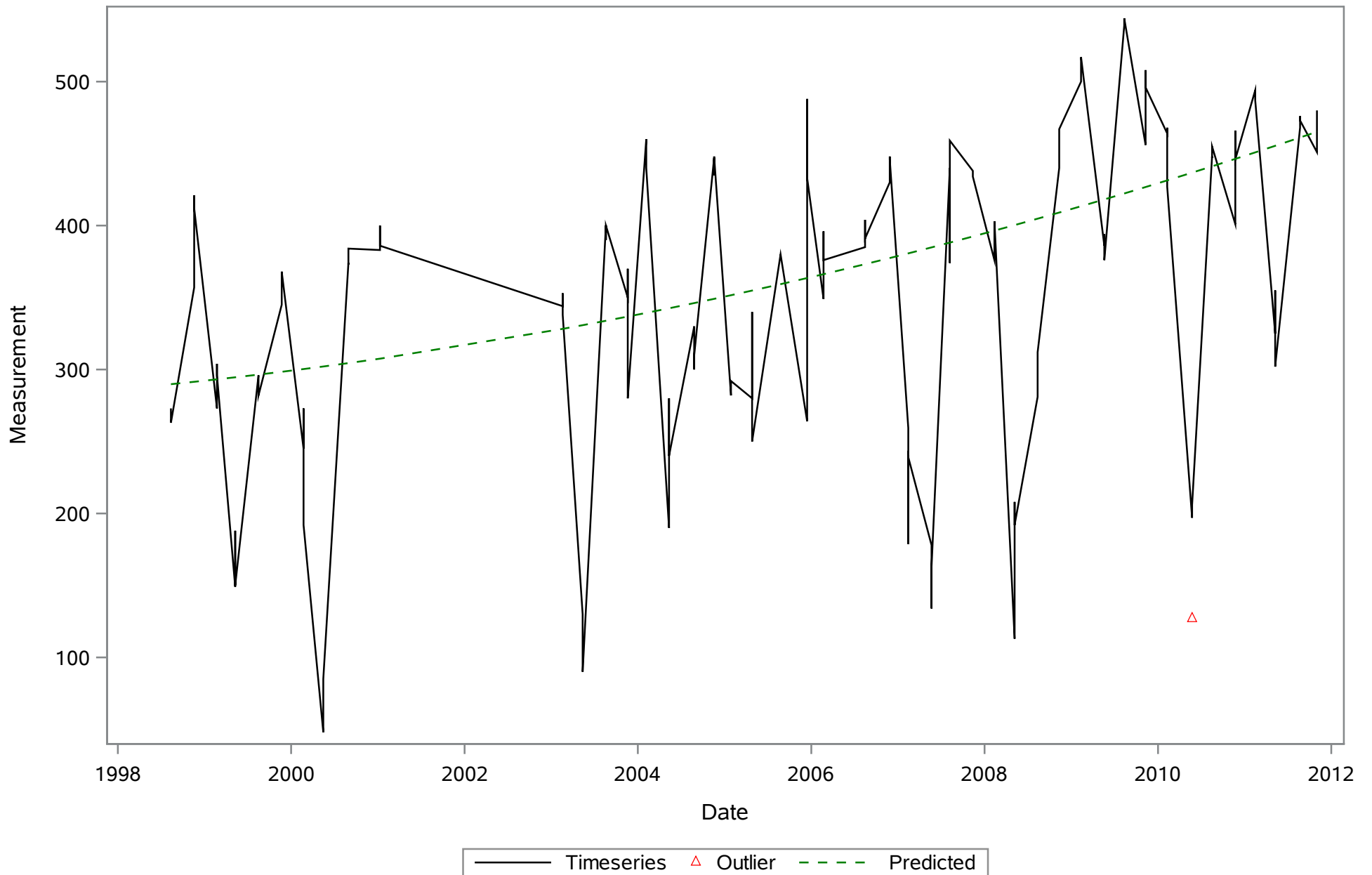
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
DO_mgL



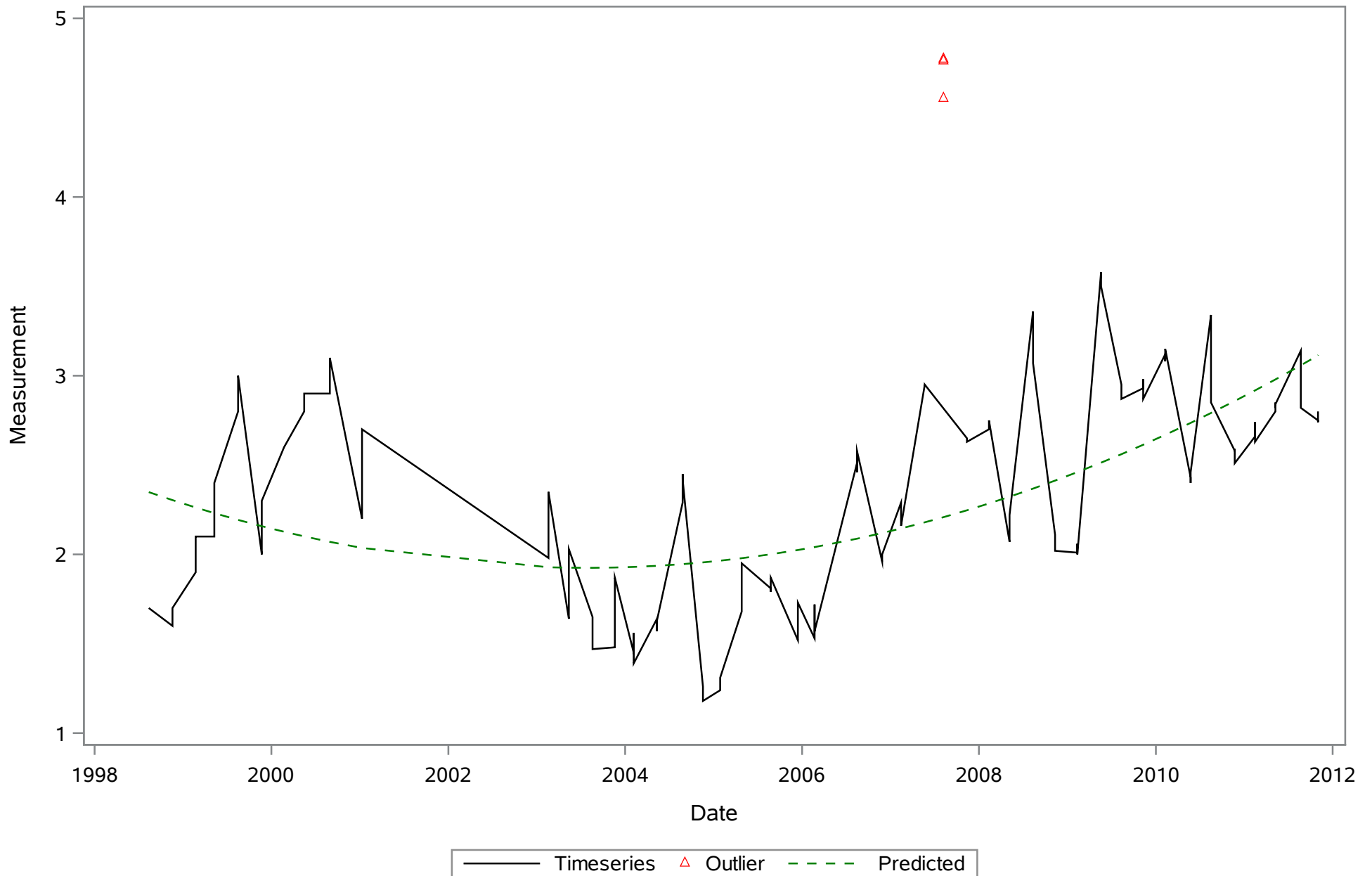
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NH4_ugl



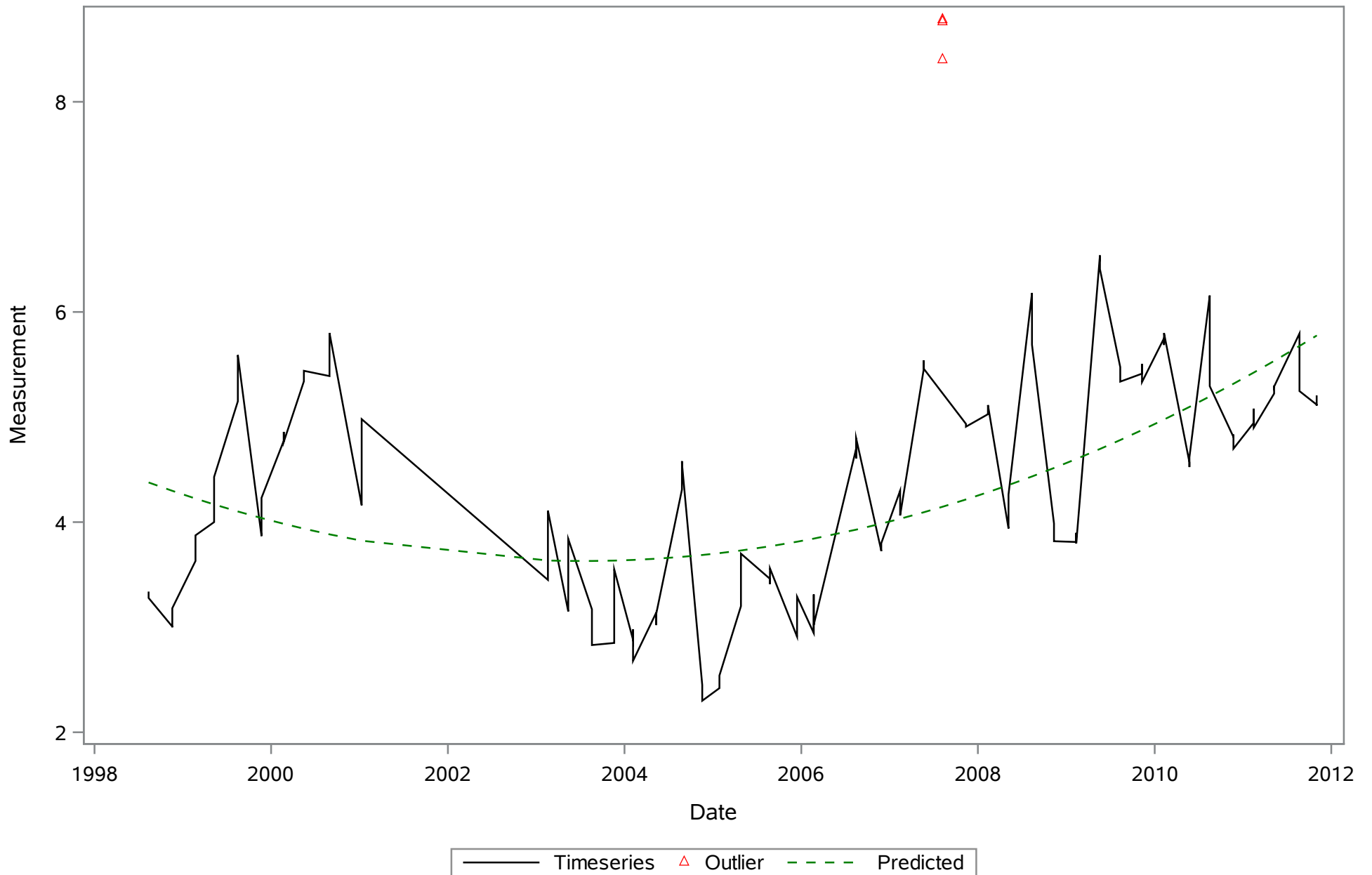
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NO3_ugL



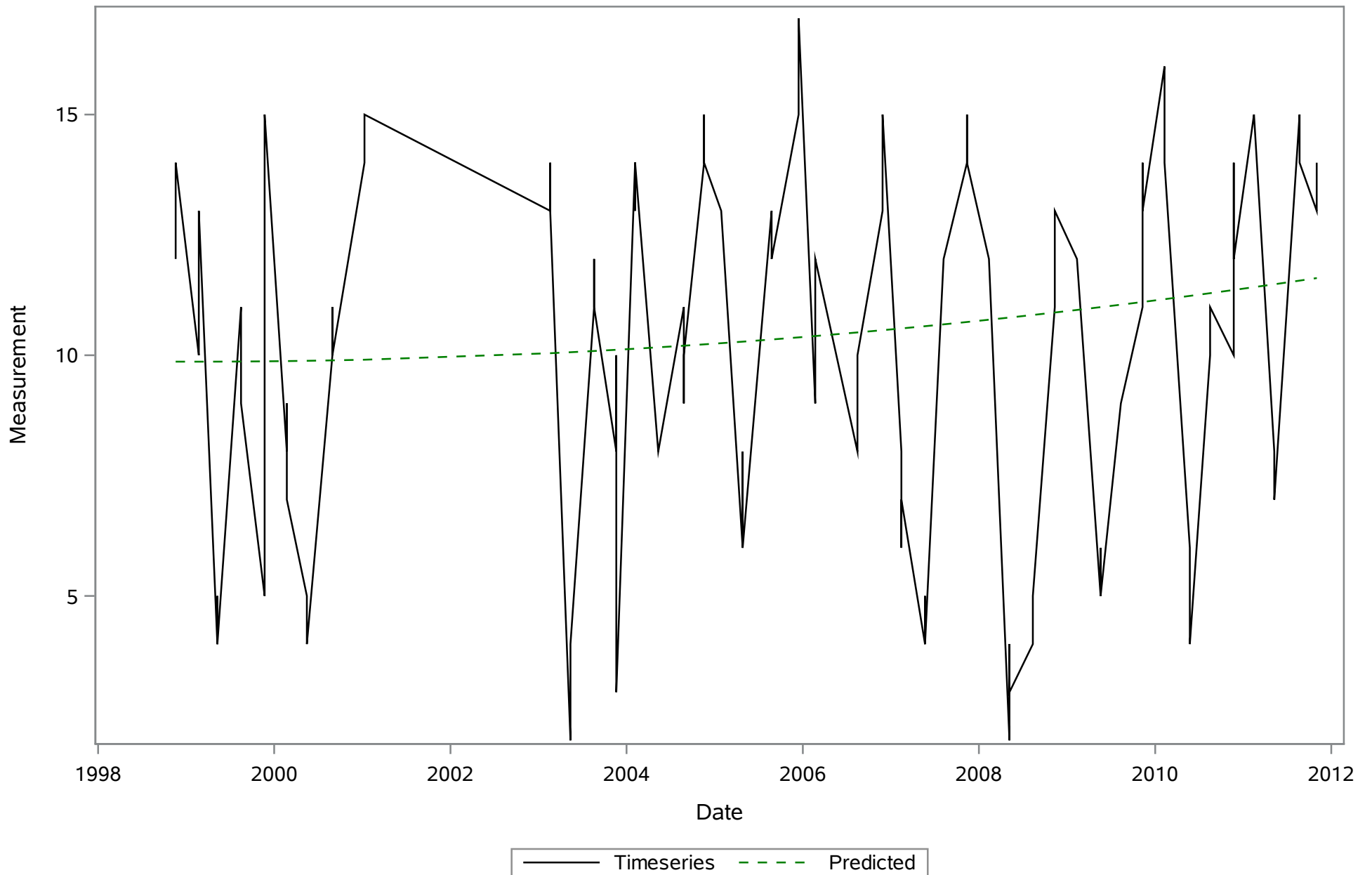
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SAL_Perc



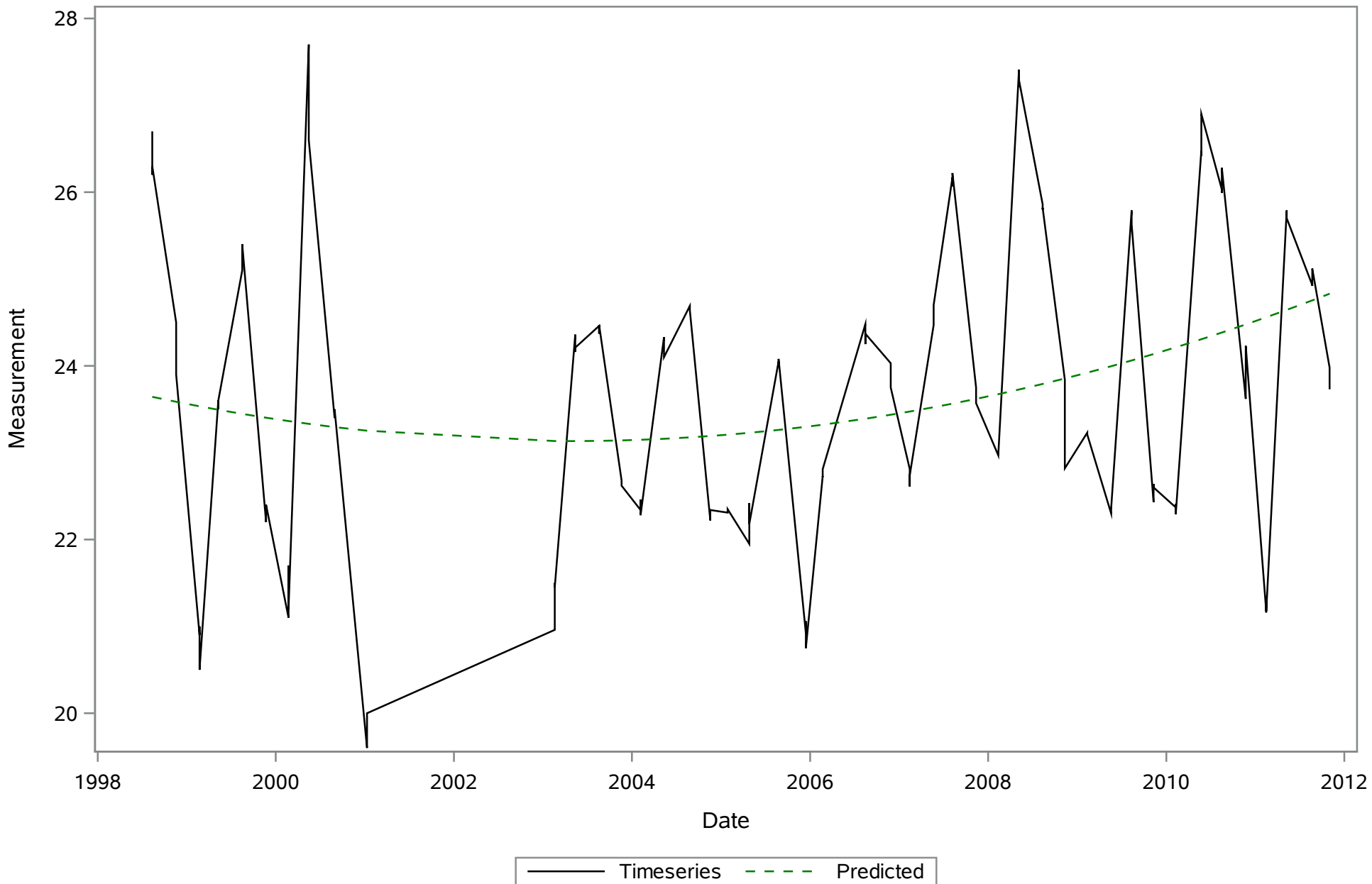
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SPCOND_mS_cm



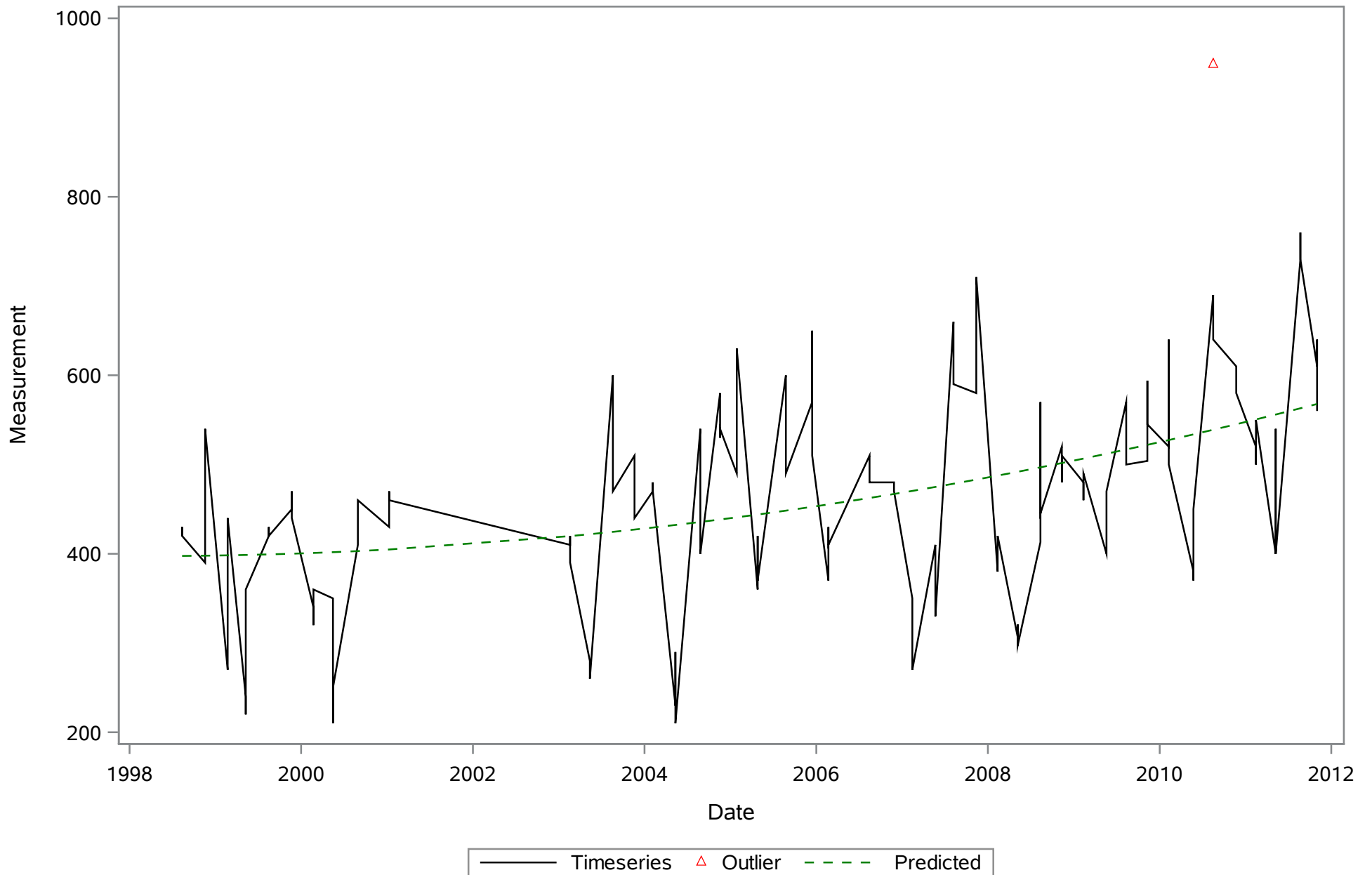
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SRP_ugL



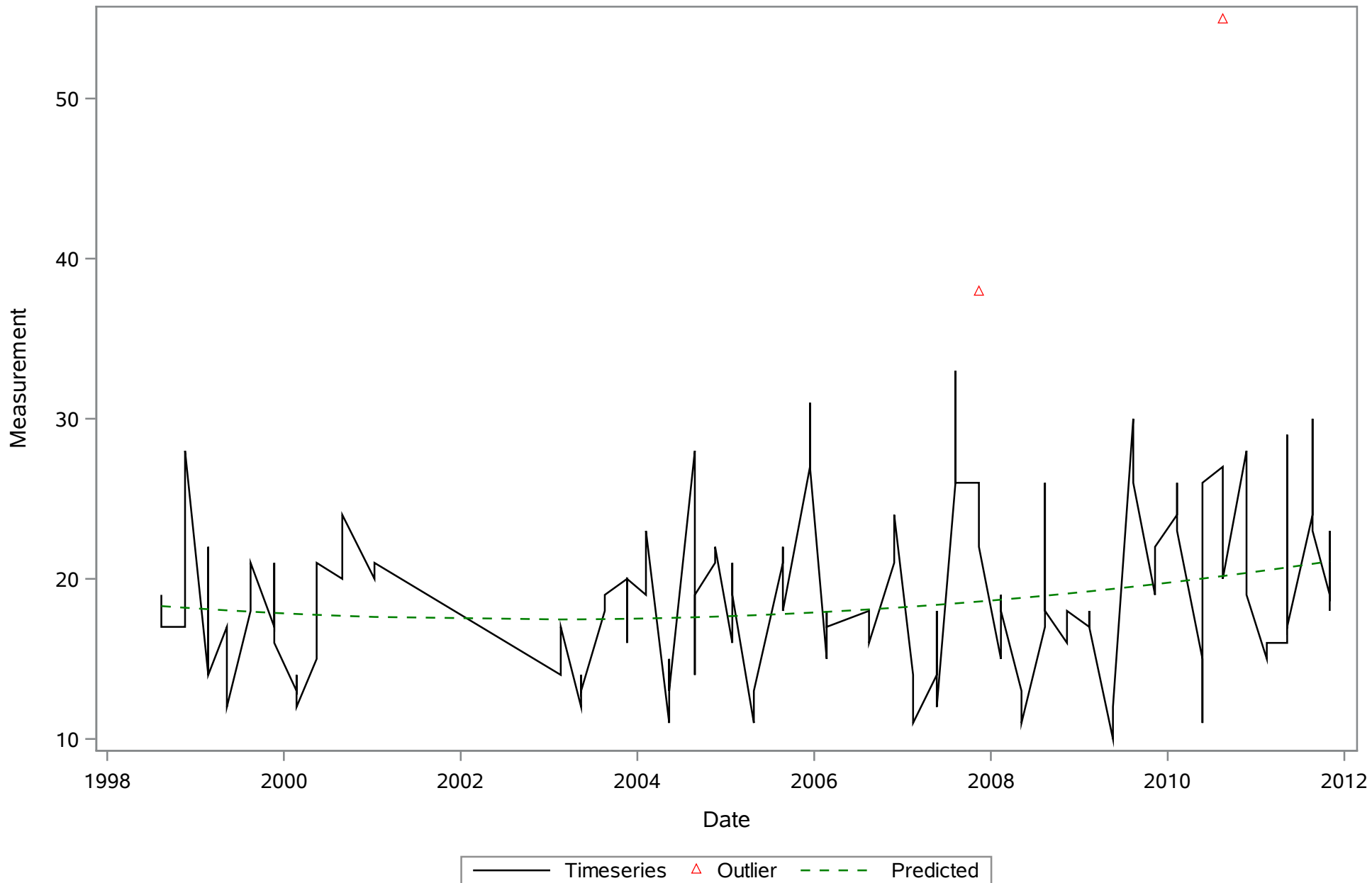
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TEMP_C



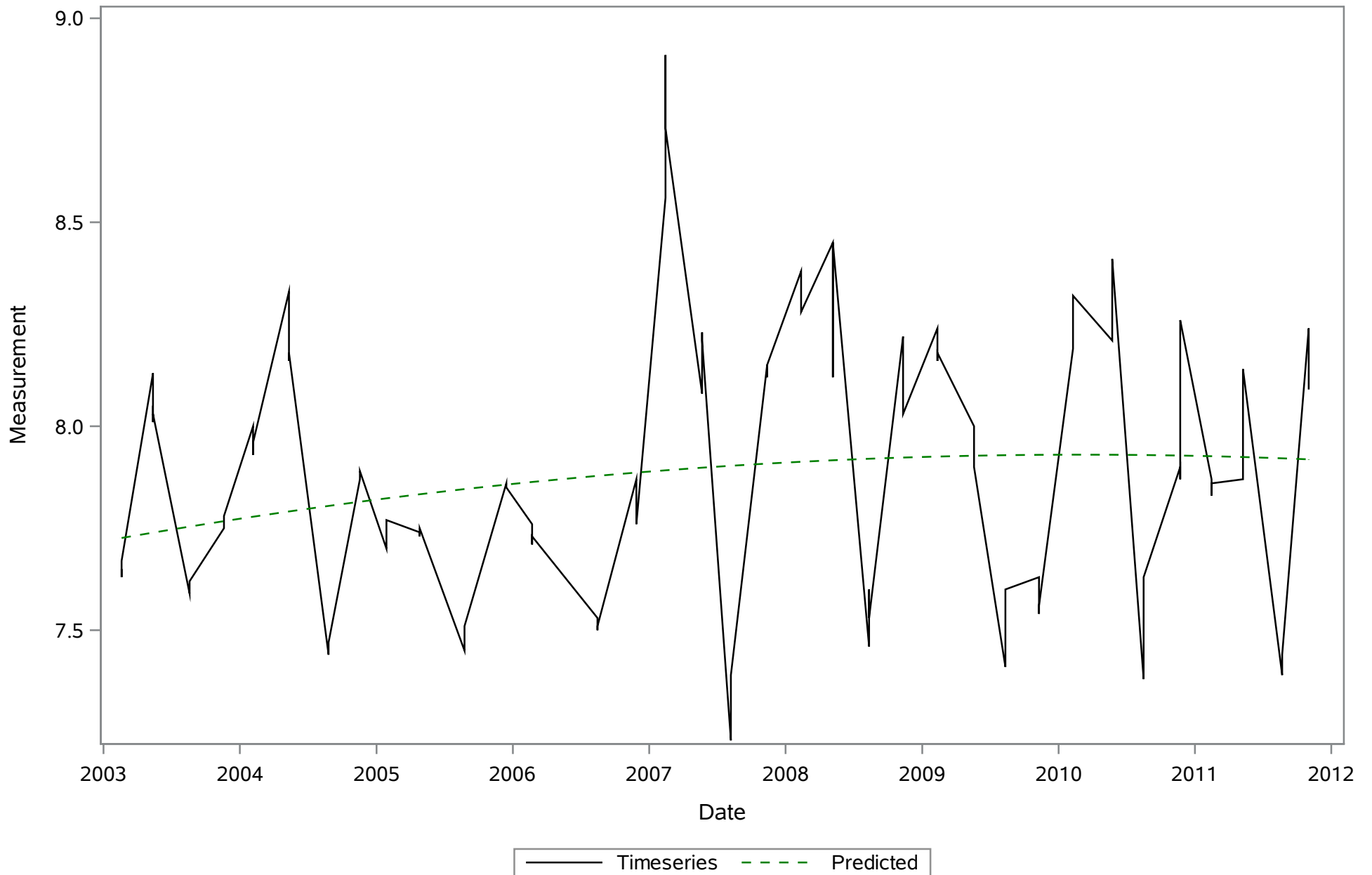
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TN_ugl



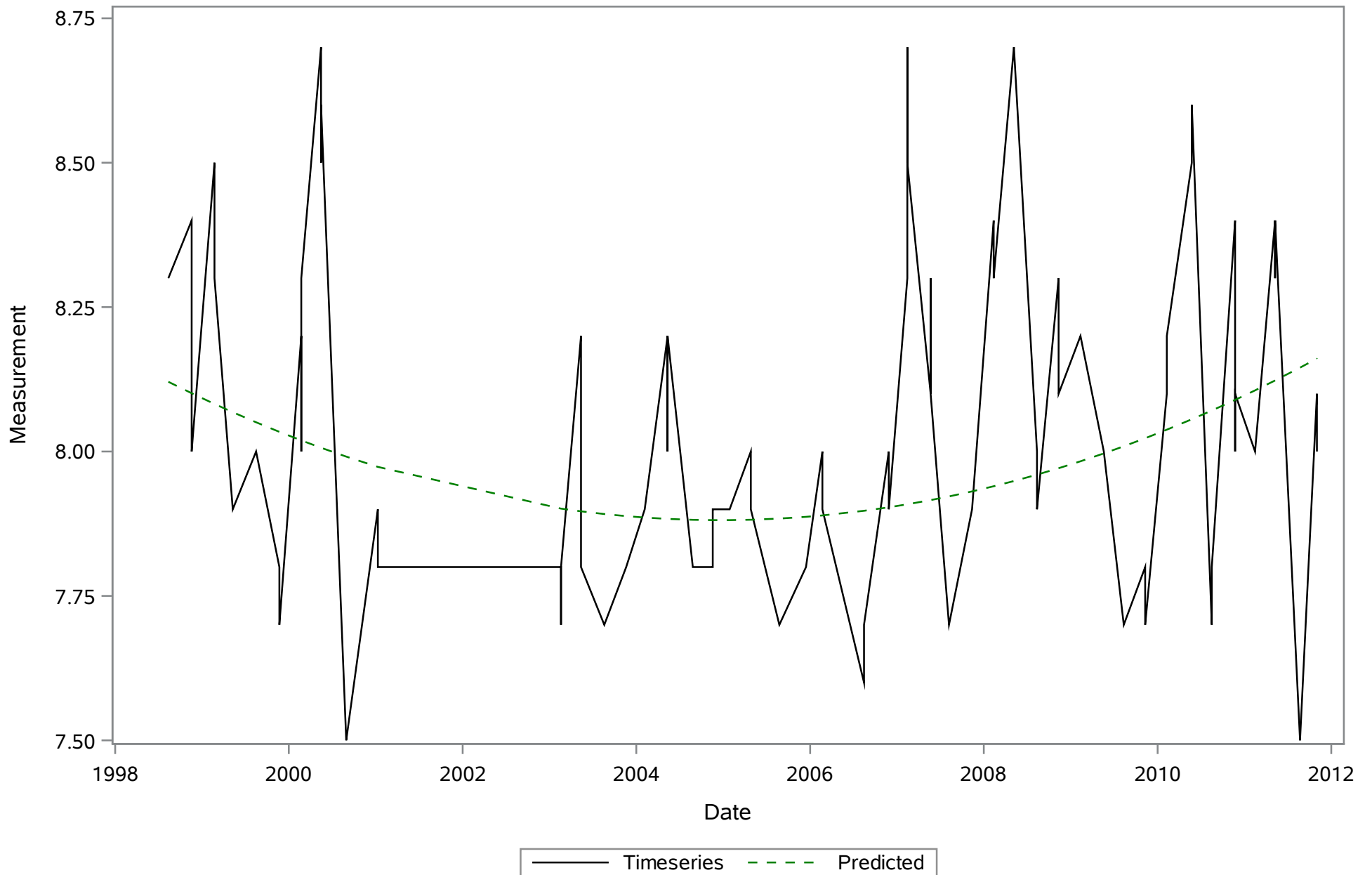
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TP_ugl



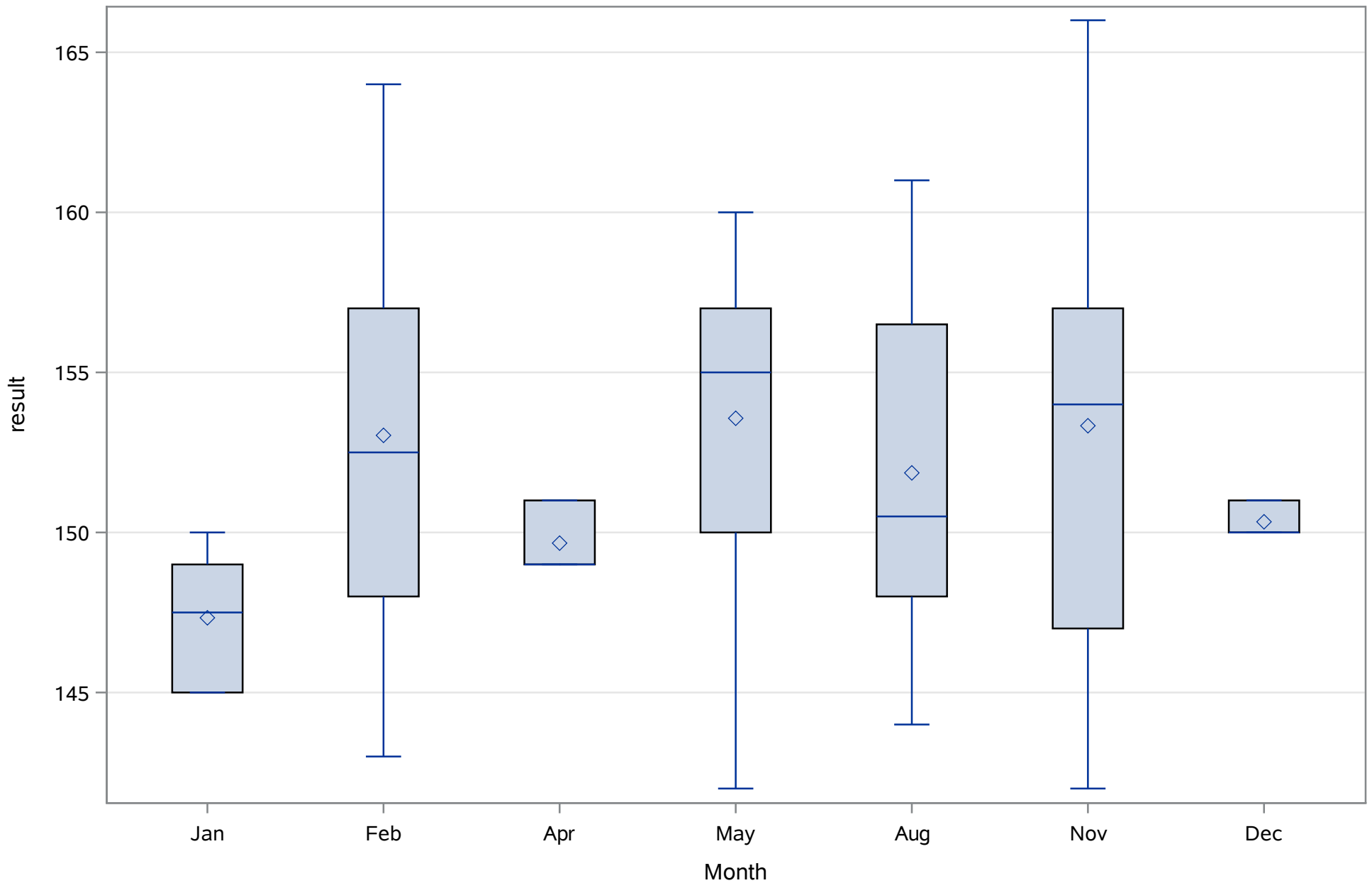
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Field



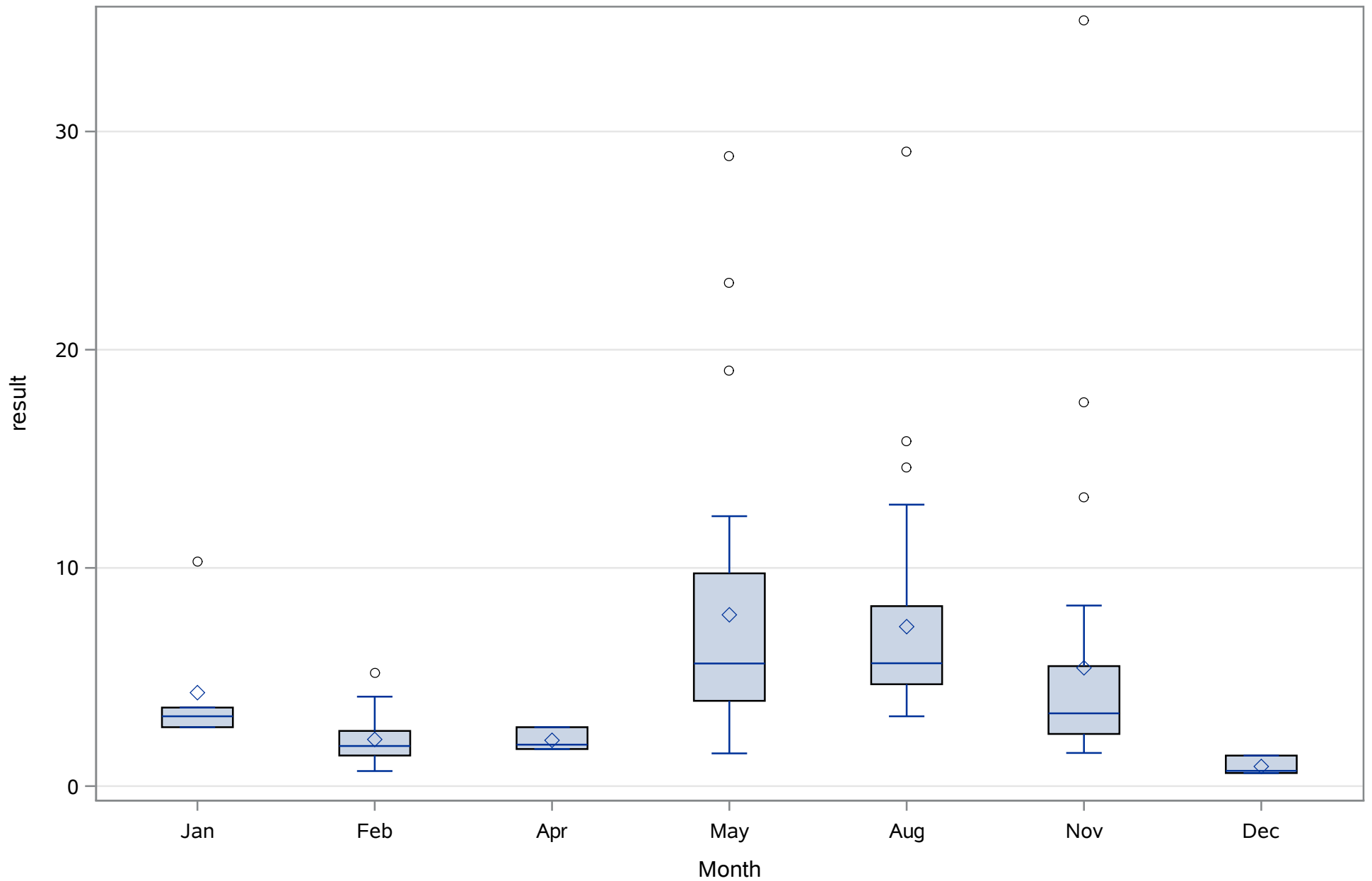
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Lab



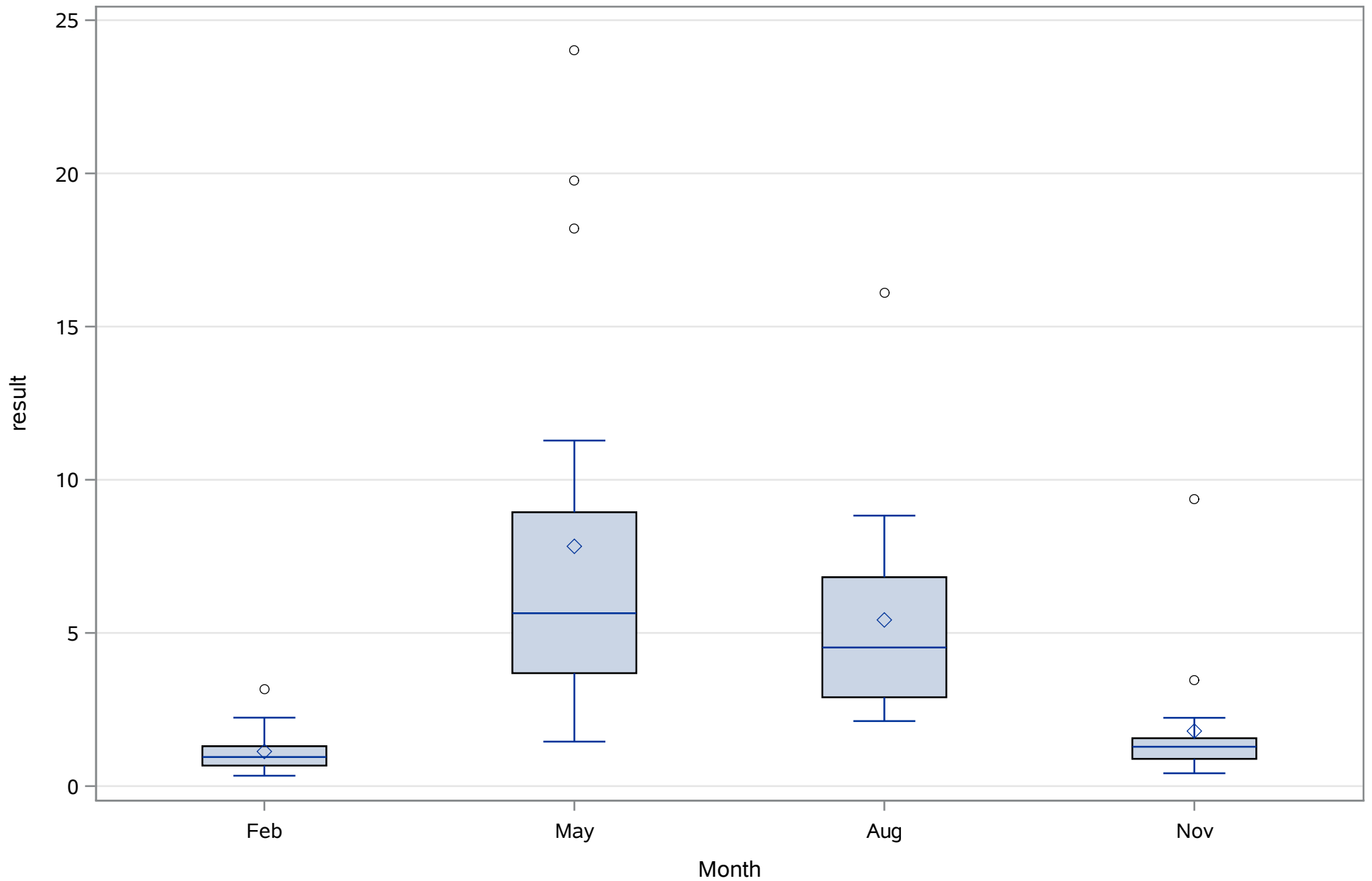
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
ALK_tot_mgL



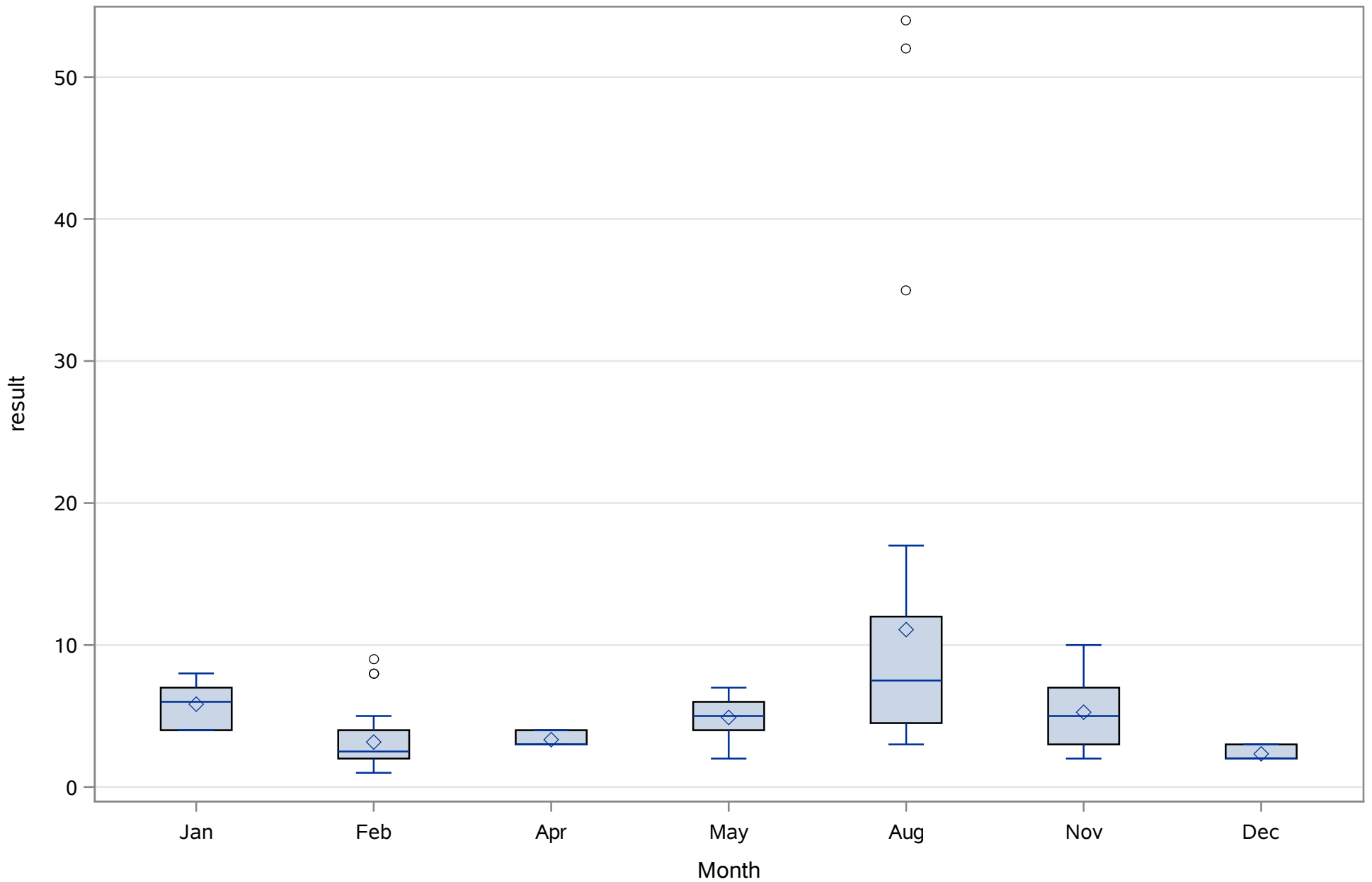
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_Uncor_ugL



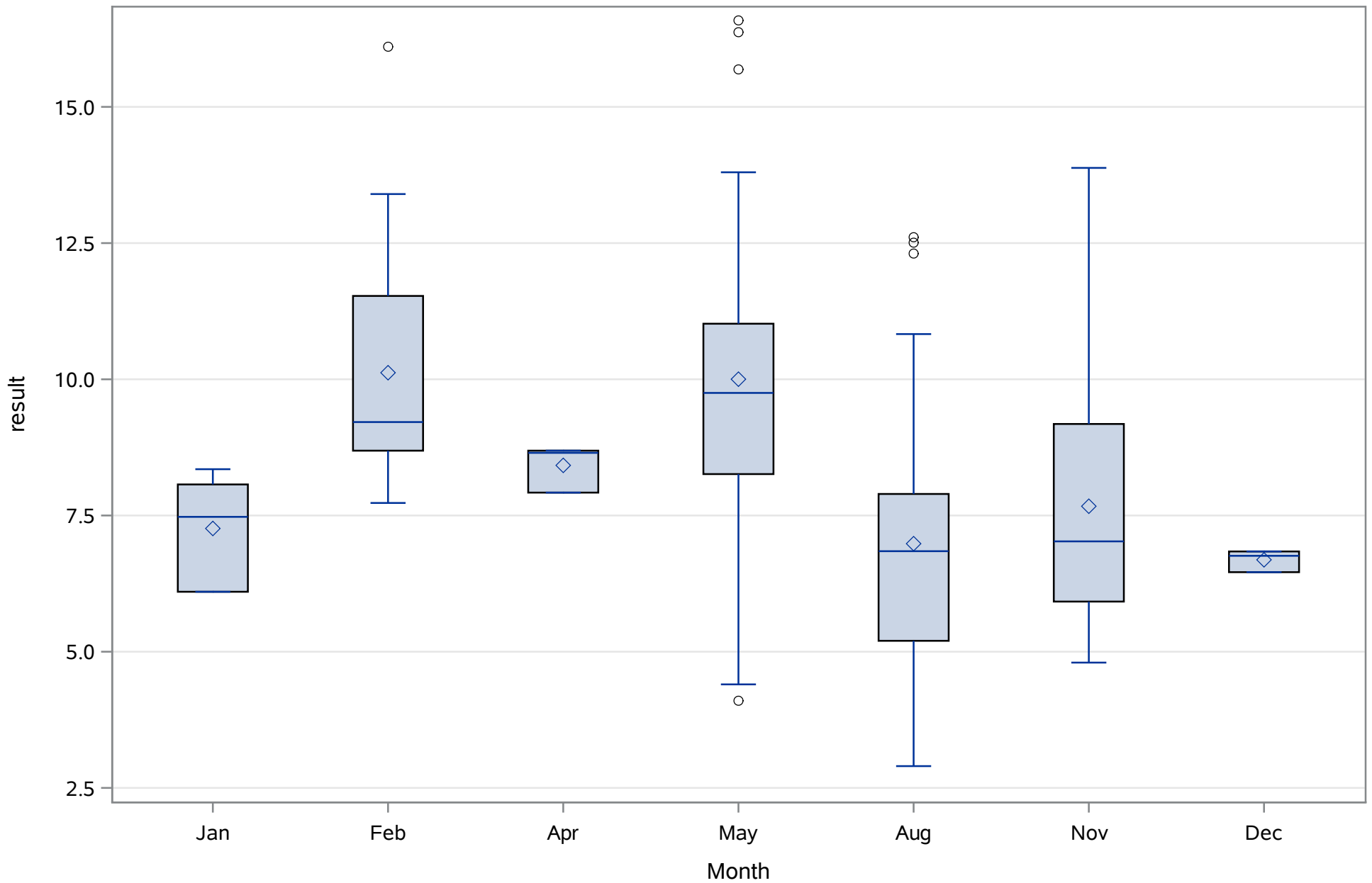
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
CHLA_cor_ugl



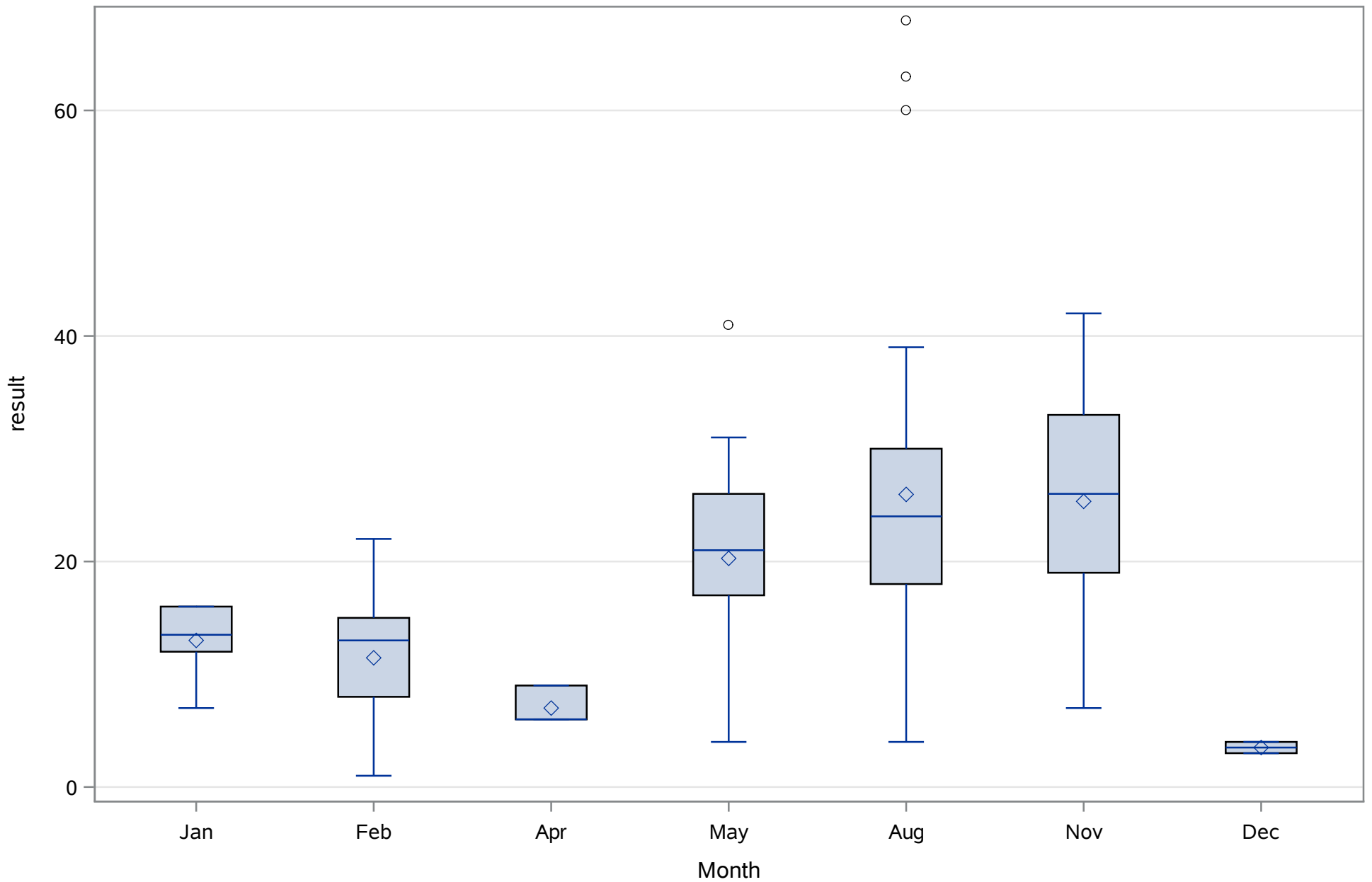
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
COLOR_PtCo



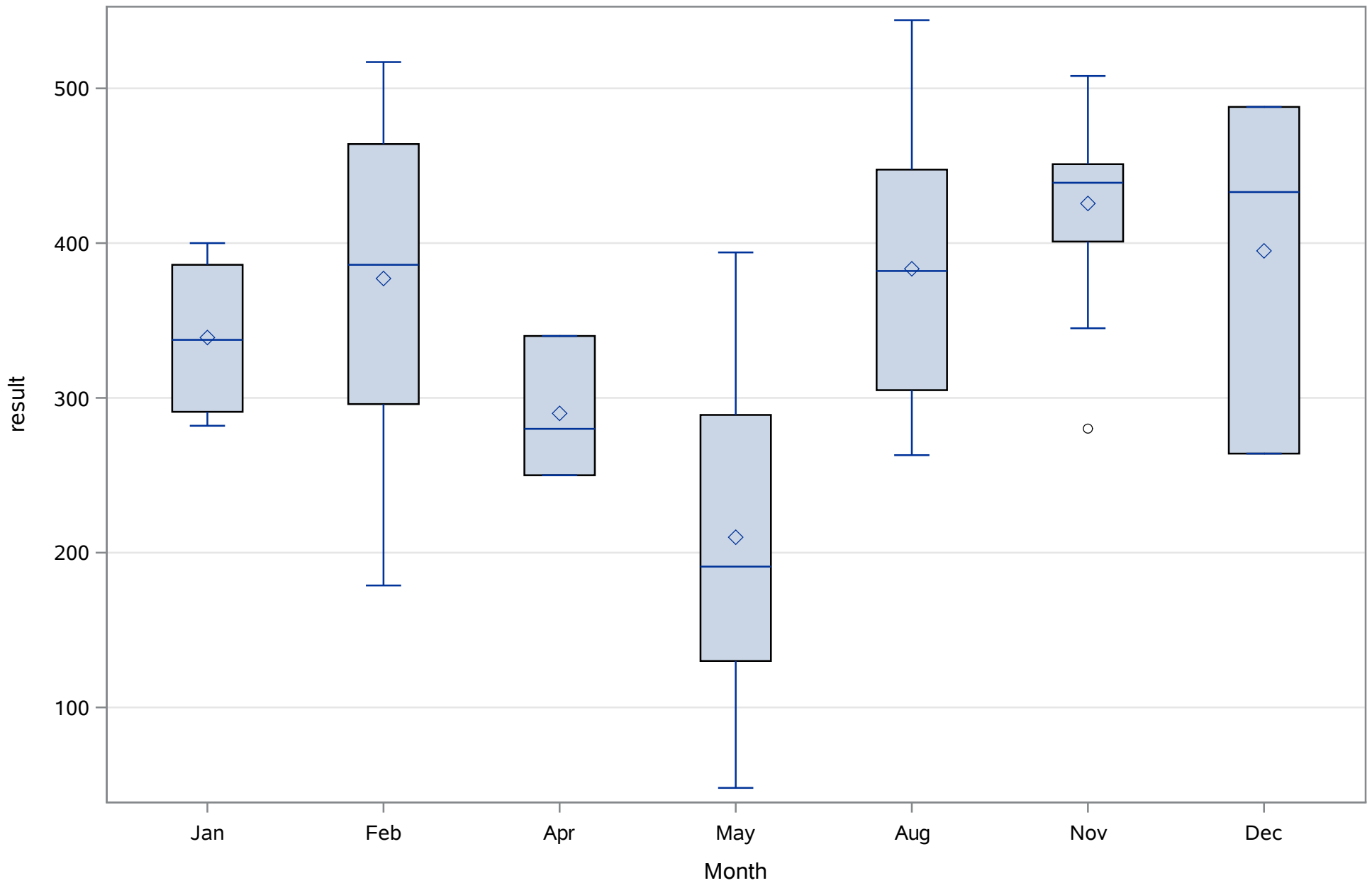
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
DO_mgL



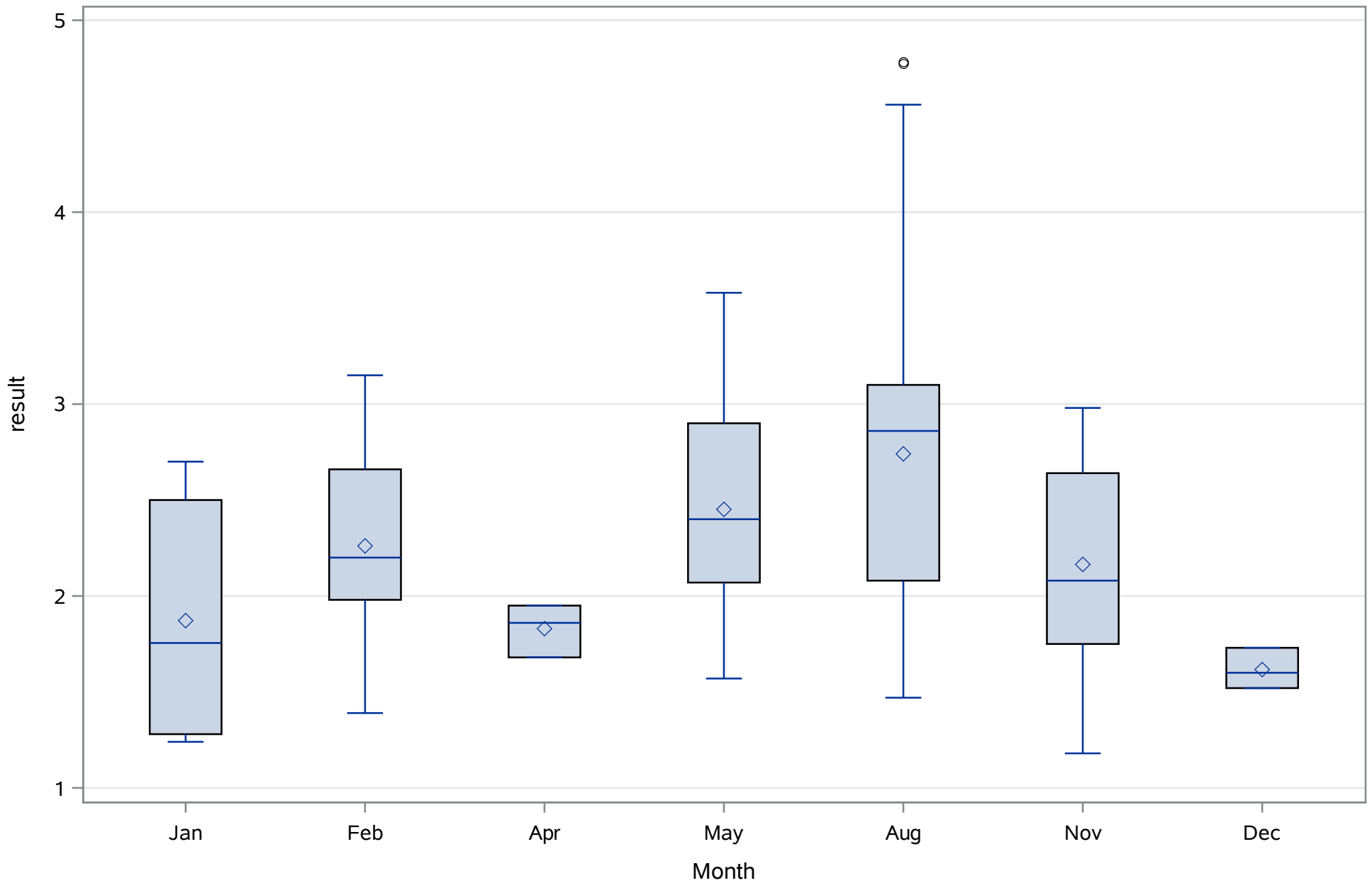
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NH4_ugl



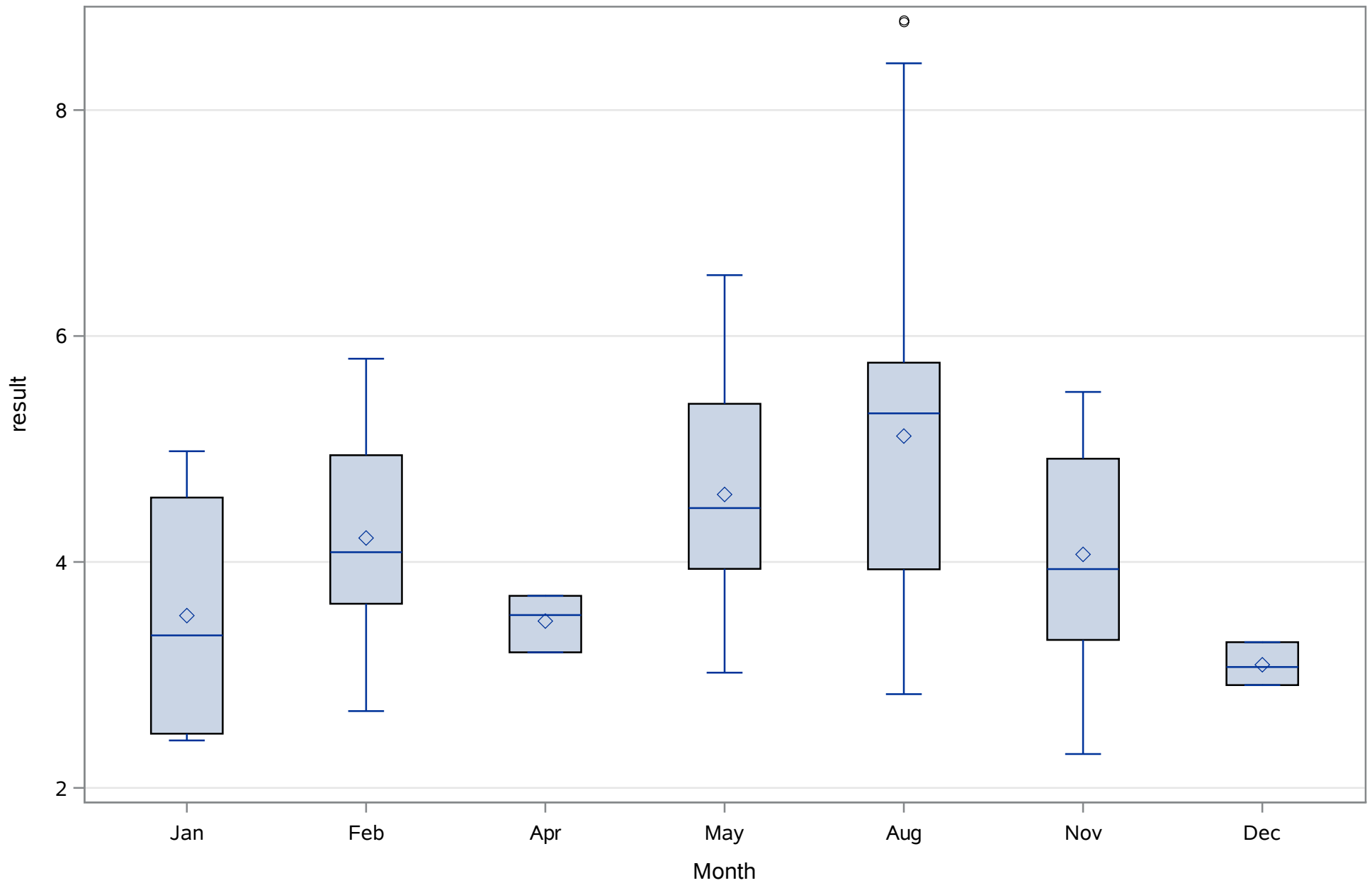
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
NO3_ugL



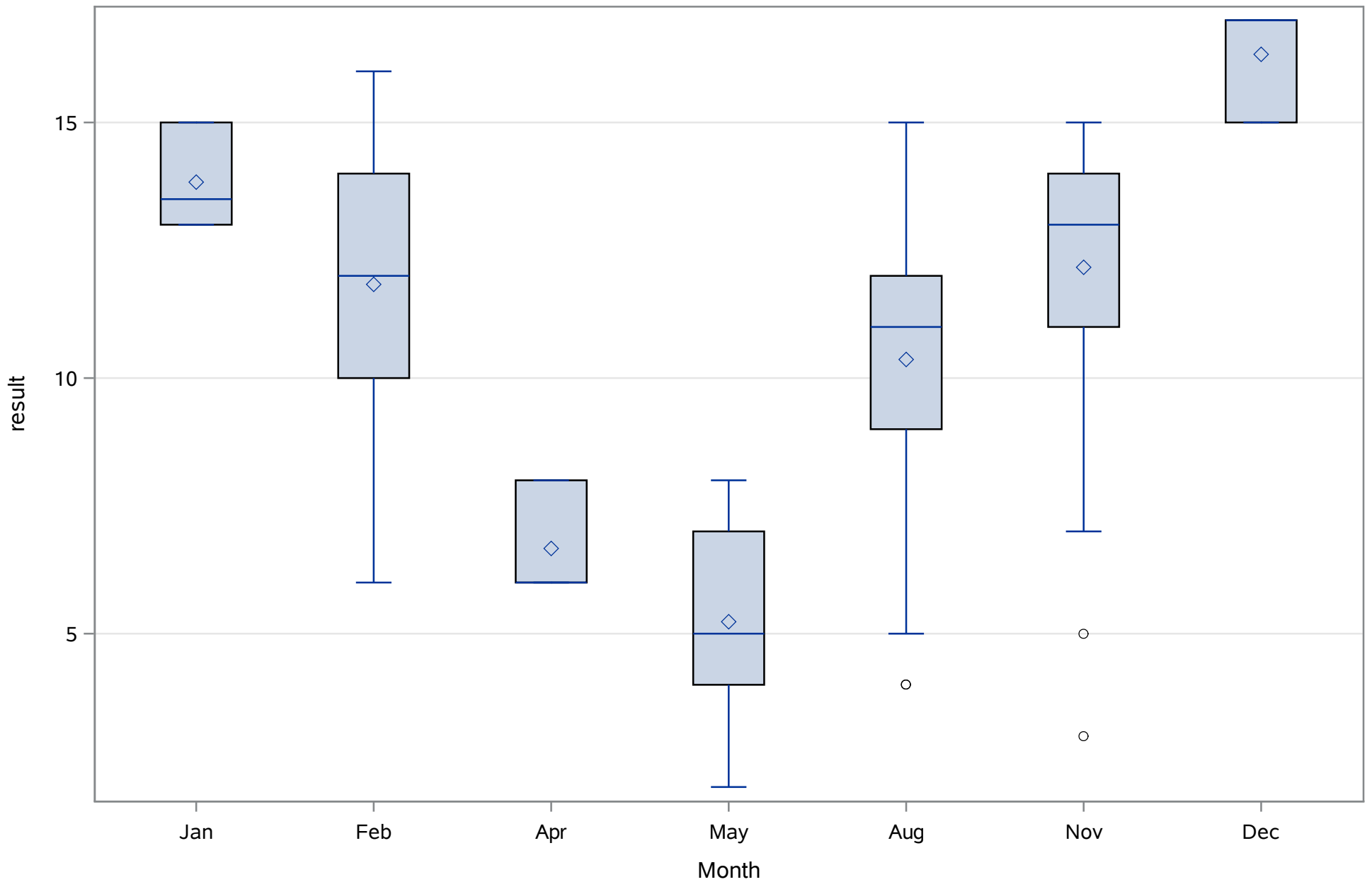
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SAL_Perc



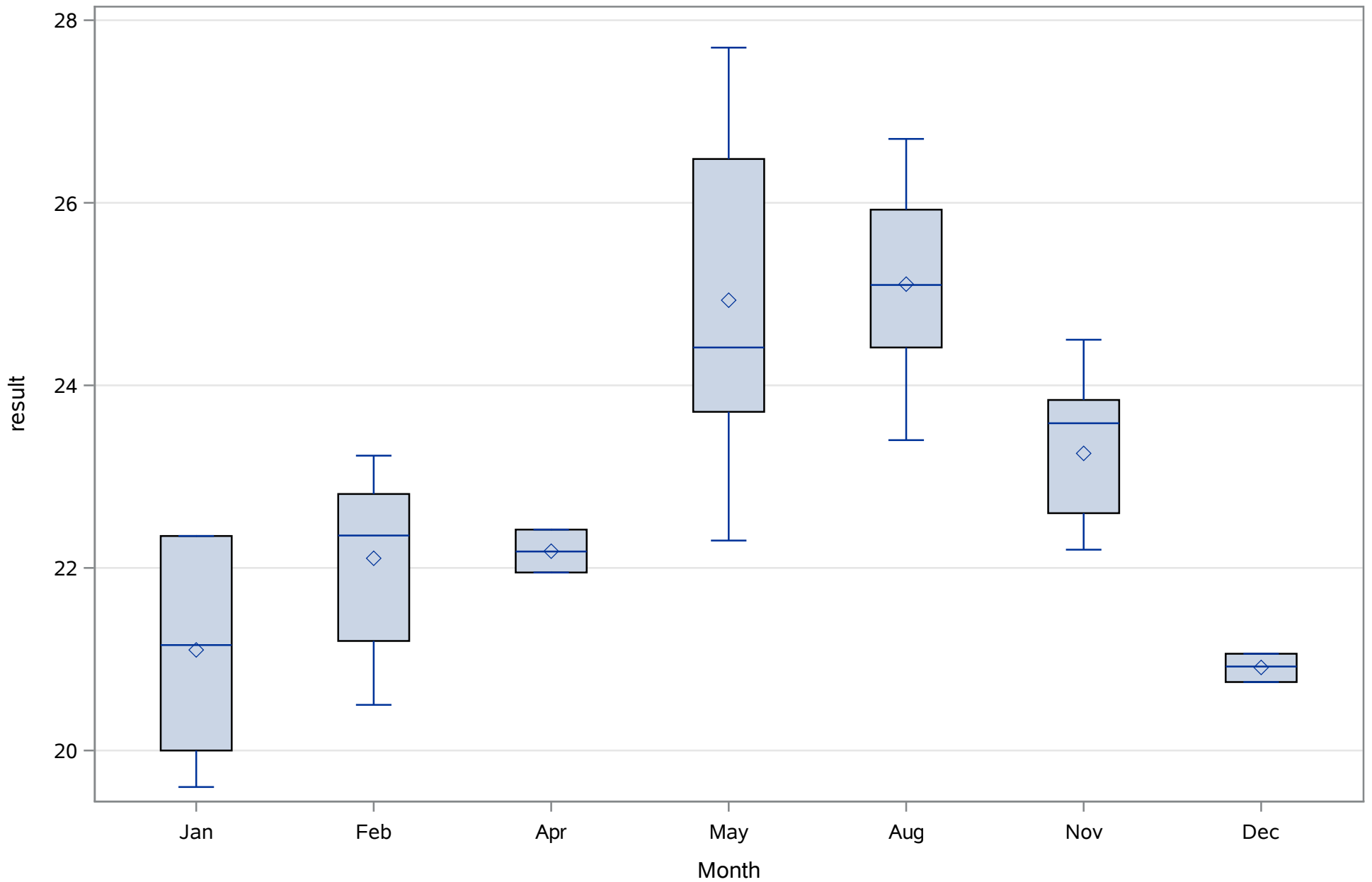
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SPCOND_mS_cm



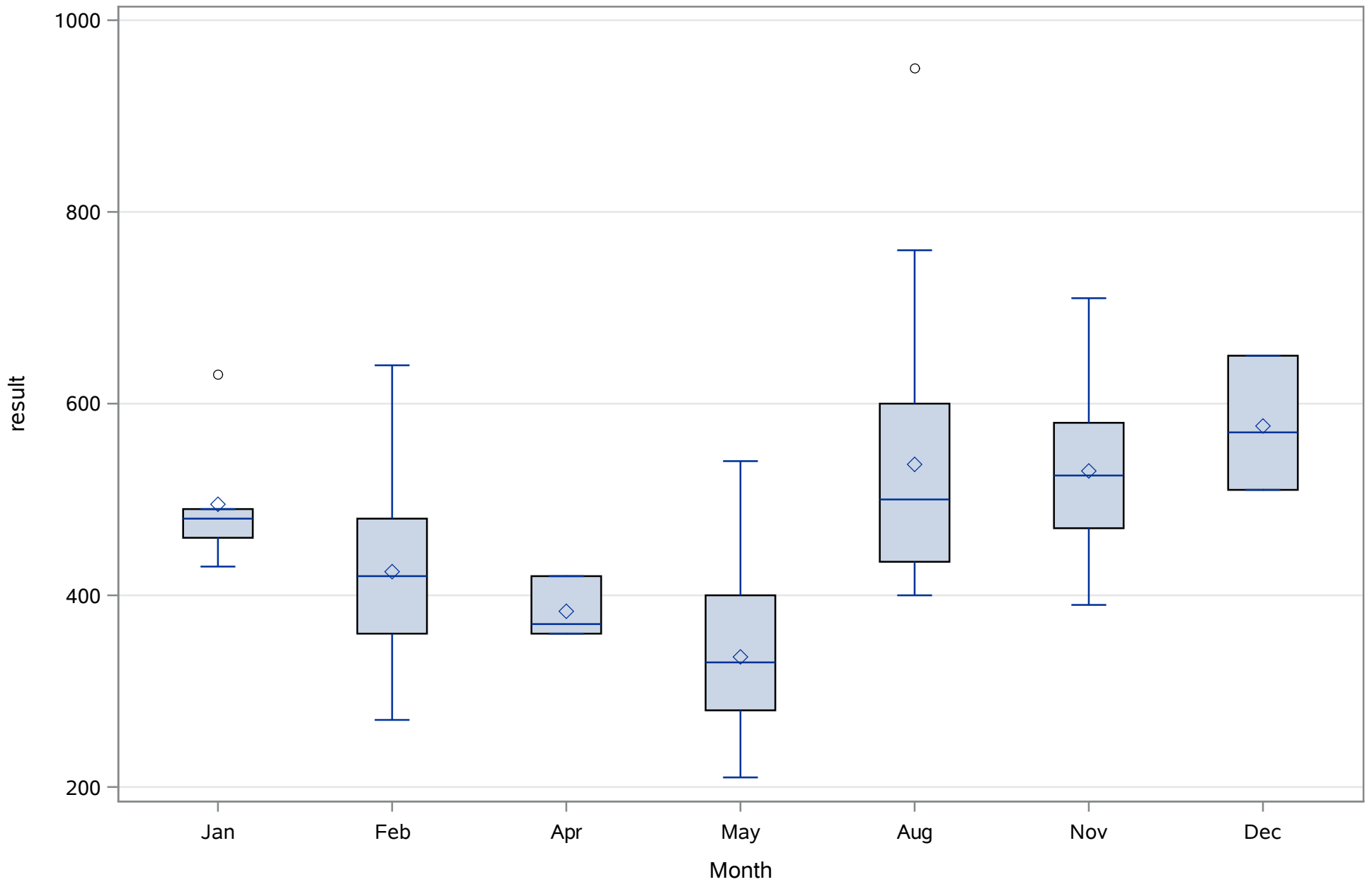
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
SRP_ugL



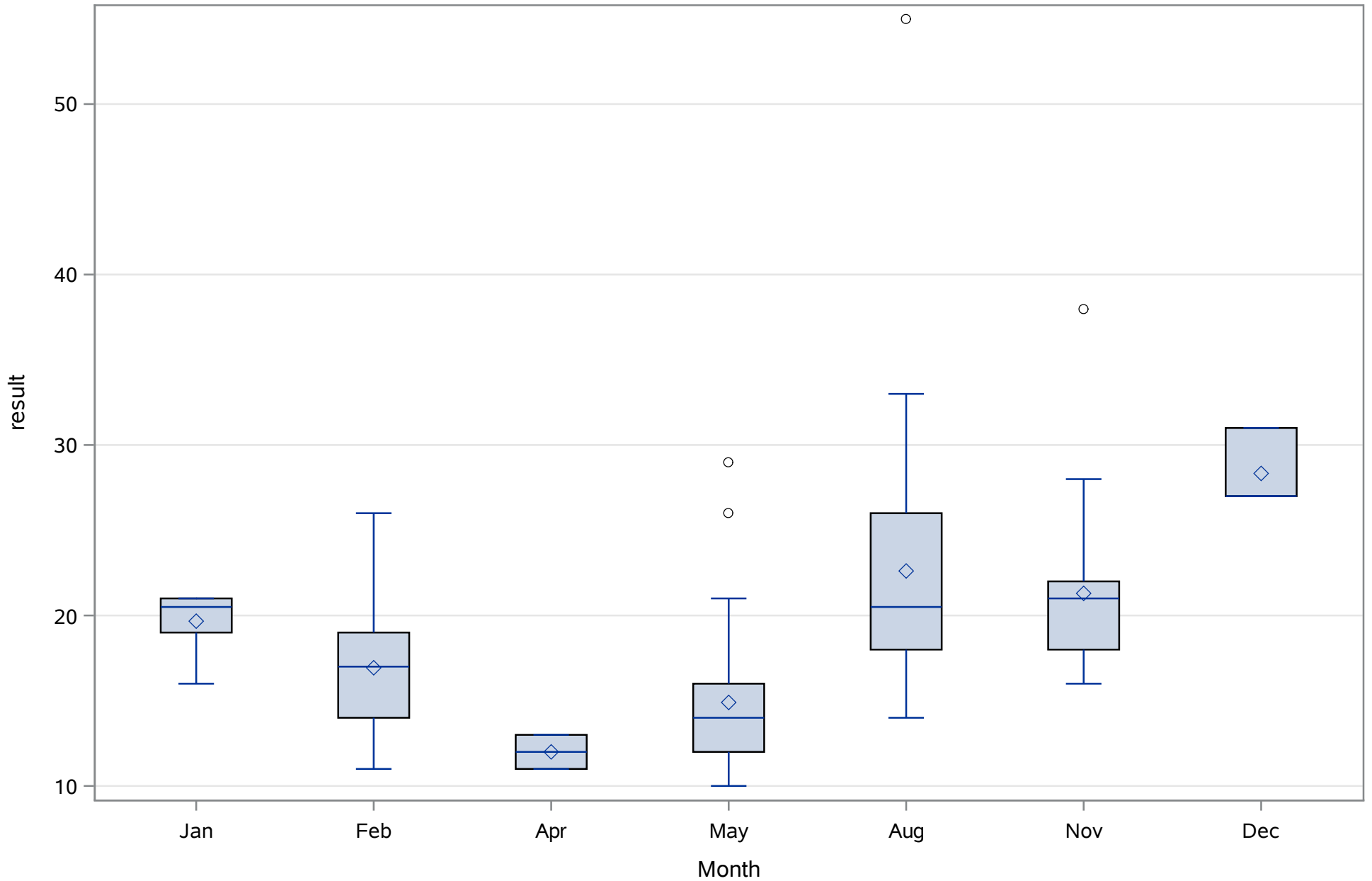
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TEMP_C



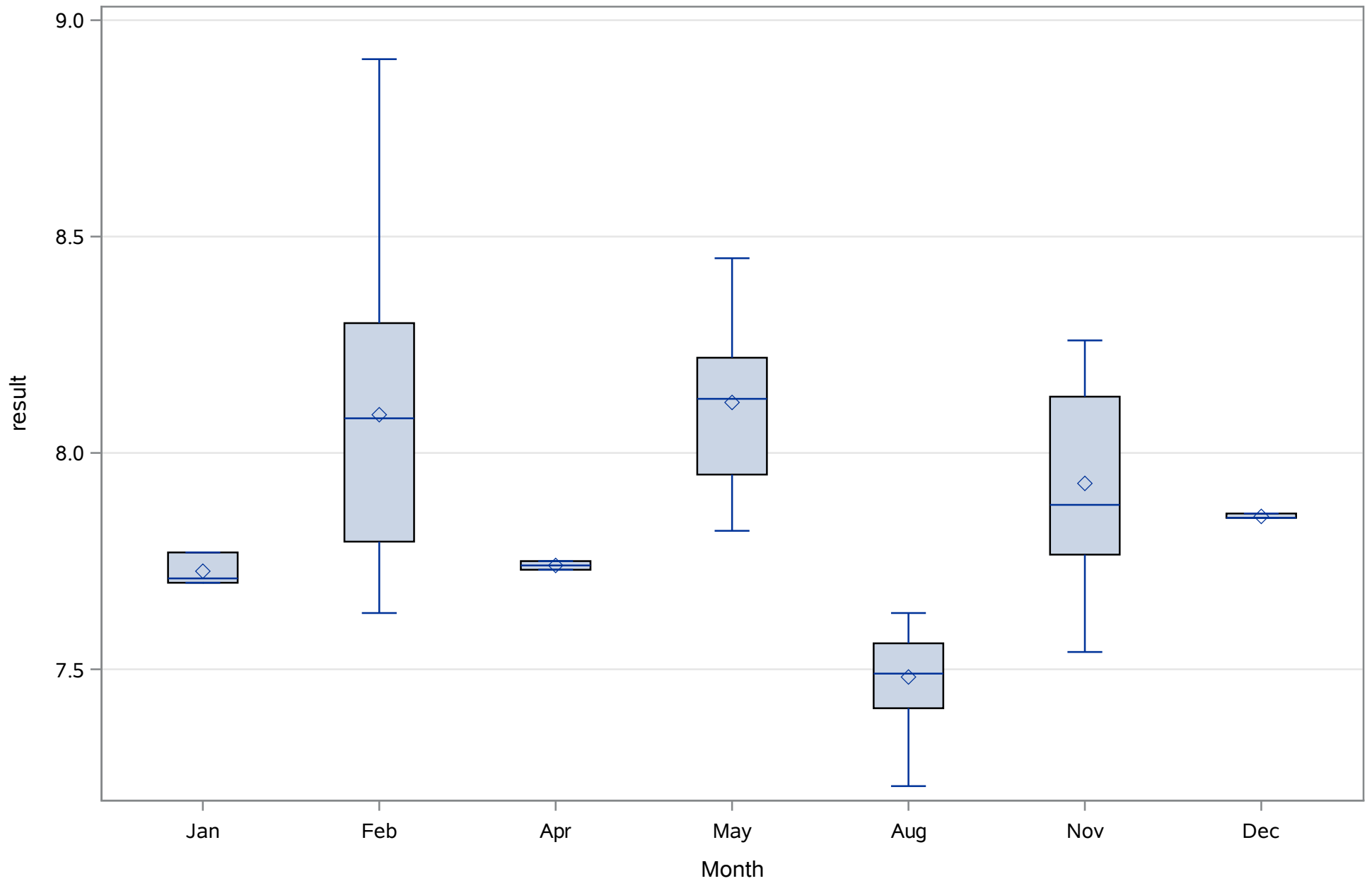
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 5
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	153.942029	Sum Observations	21244
Std Deviation	6.53208601	Variance	42.6681477
Skewness	0.362758	Kurtosis	-0.4717914
Uncorrected SS	3276190	Corrected SS	5845.53623
Coeff Variation	4.24321159	Std Error Mean	0.55604809

Basic Statistical Measures			
Location		Variability	
Mean	153.9420	Std Deviation	6.53209
Median	153.0000	Variance	42.66815
Mode	149.0000	Range	29.00000
		Interquartile Range	9.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	276.8502	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	171
99%	170
95%	164
90%	163
75% Q3	158
50% Median	153
25% Q1	149
10%	146
5%	143
1%	143
0% Min	142

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
ALK_tot_mgL

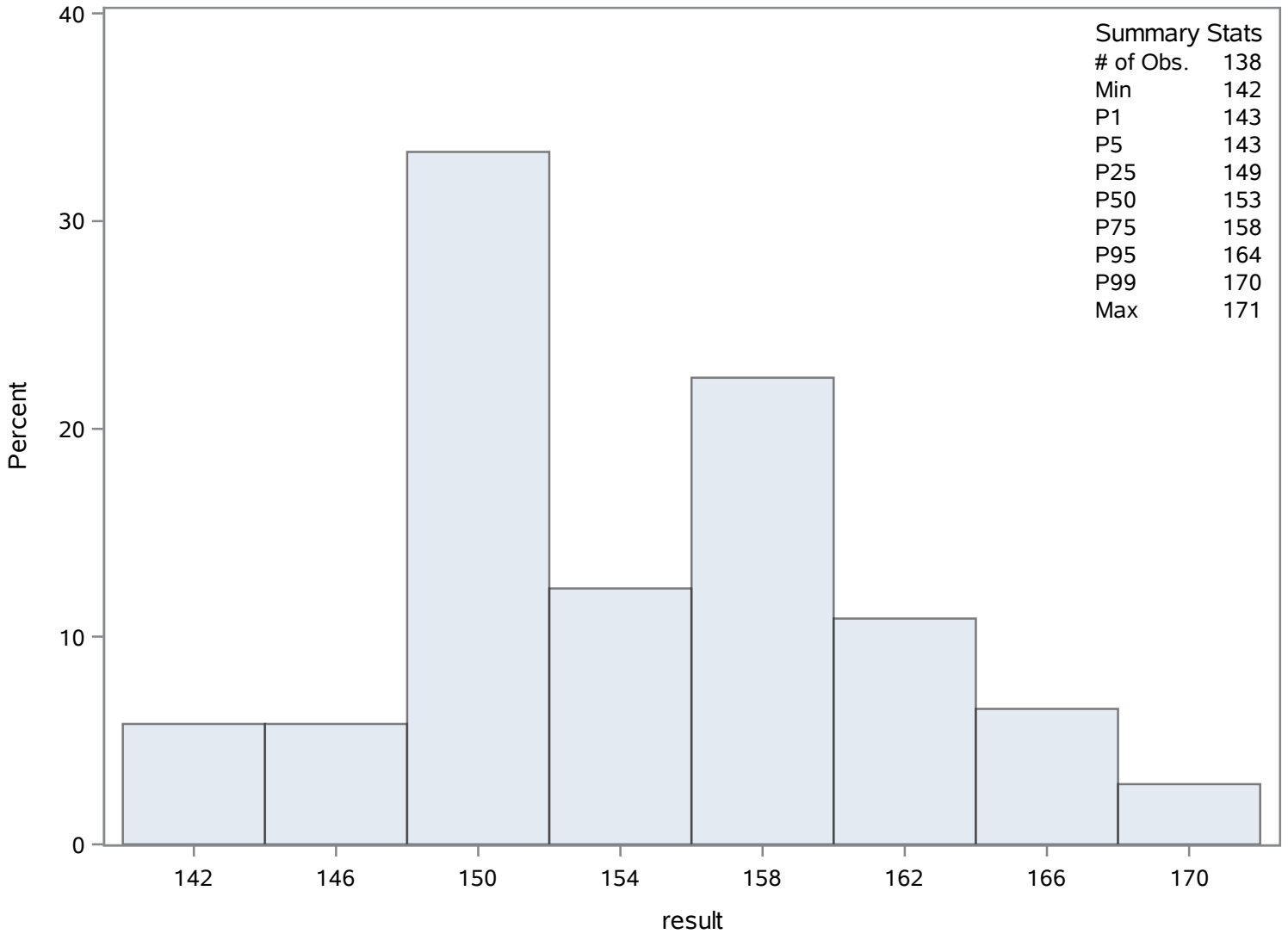
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
142	3	167	113
143	9	169	118
143	8	169	119
143	7	170	120
143	5	171	112

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	11.8275943	Sum Observations	1632.20801
Std Deviation	38.9963044	Variance	1520.71175
Skewness	6.53110365	Kurtosis	42.22624
Uncorrected SS	227642.604	Corrected SS	208337.51
Coeff Variation	329.706139	Std Error Mean	3.31958588

Basic Statistical Measures			
Location		Variability	
Mean	11.82759	Std Deviation	38.99630
Median	5.02874	Variance	1521
Mode	0.70000	Range	296.31000
		Interquartile Range	4.64000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	3.562973	Pr > t 	0.0005
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	297.01000
99%	256.55000
95%	19.17000
90%	14.30000
75% Q3	7.54000
50% Median	5.02874
25% Q1	2.90000
10%	1.88506
5%	1.10000
1%	0.70000
0% Min	0.70000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_Uncor_ugL

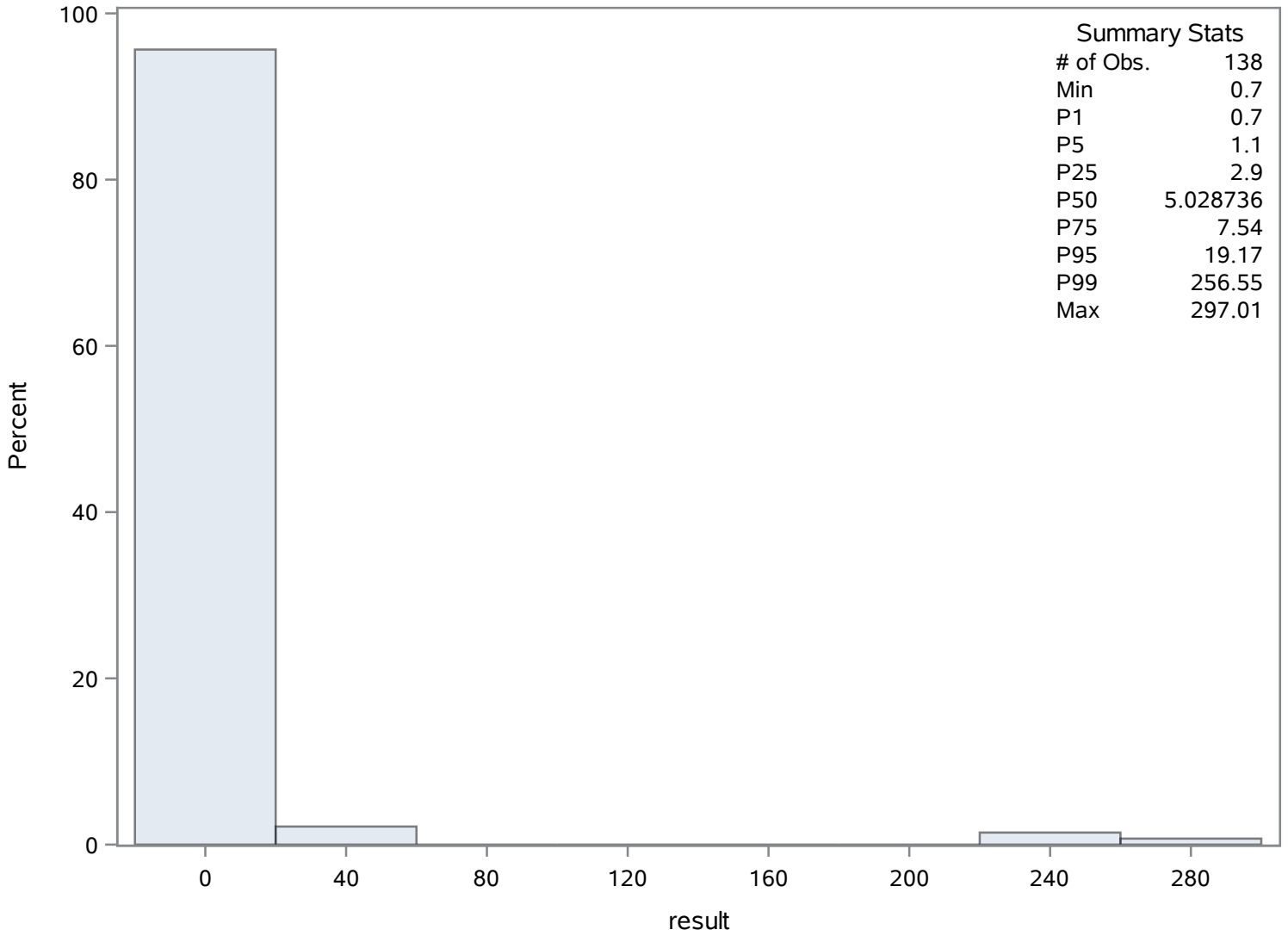
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.70	204	20.70	140
0.70	203	31.63	260
0.70	202	255.63	258
0.70	157	256.55	257
0.87	255	297.01	256

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	14.9856444	Sum Observations	1078.9664
Std Deviation	52.6769726	Variance	2774.86344
Skewness	4.69616727	Kurtosis	20.9401087
Uncorrected SS	213184.311	Corrected SS	197015.304
Coeff Variation	351.516232	Std Error Mean	6.20804075

Basic Statistical Measures			
Location		Variability	
Mean	14.98564	Std Deviation	52.67697
Median	2.79069	Variance	2775
Mode	1.22896	Range	292.27000
		Interquartile Range	4.30500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	2.413909	Pr > t 	0.0184
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	292.72000
99%	292.72000
95%	17.43000
90%	11.28000
75% Q3	5.86500
50% Median	2.79069
25% Q1	1.56000
10%	1.00552
5%	0.67000
1%	0.45000
0% Min	0.45000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_cor_ugl

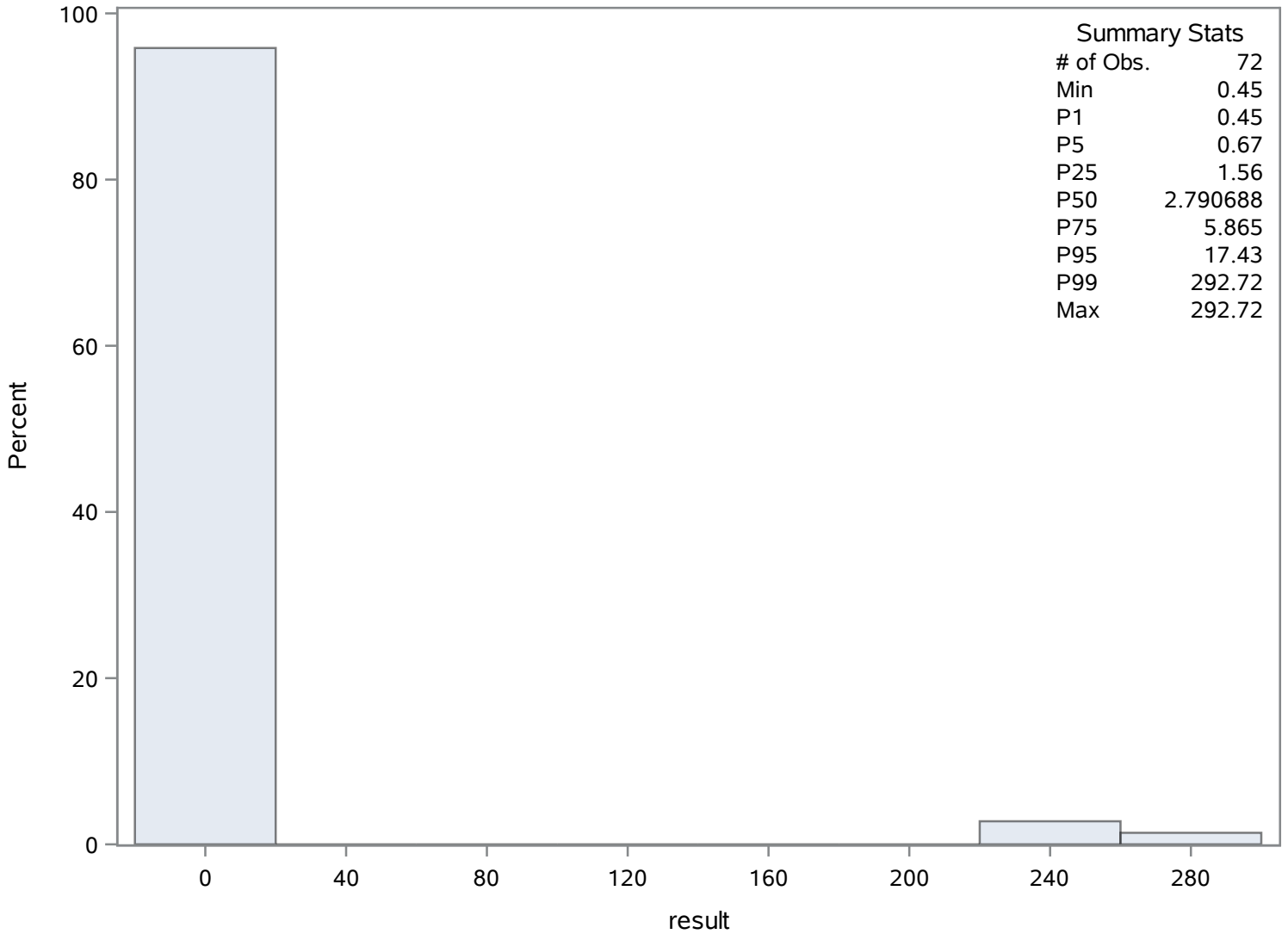
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.45	326	16.42	340
0.45	325	17.43	320
0.56	327	245.79	330
0.67	337	254.73	329
0.89	338	292.72	328

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8.10869565	Sum Observations	1119
Std Deviation	9.4294807	Variance	88.9151063
Skewness	4.46437977	Kurtosis	23.3958364
Uncorrected SS	21255	Corrected SS	12181.3696
Coeff Variation	116.288502	Std Error Mean	0.8026907

Basic Statistical Measures			
Location		Variability	
Mean	8.108696	Std Deviation	9.42948
Median	6.000000	Variance	88.91511
Mode	6.000000	Range	65.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.10189	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	67
99%	61
95%	22
90%	15
75% Q3	9
50% Median	6
25% Q1	4
10%	2
5%	2
1%	2
0% Min	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
COLOR_PtCo

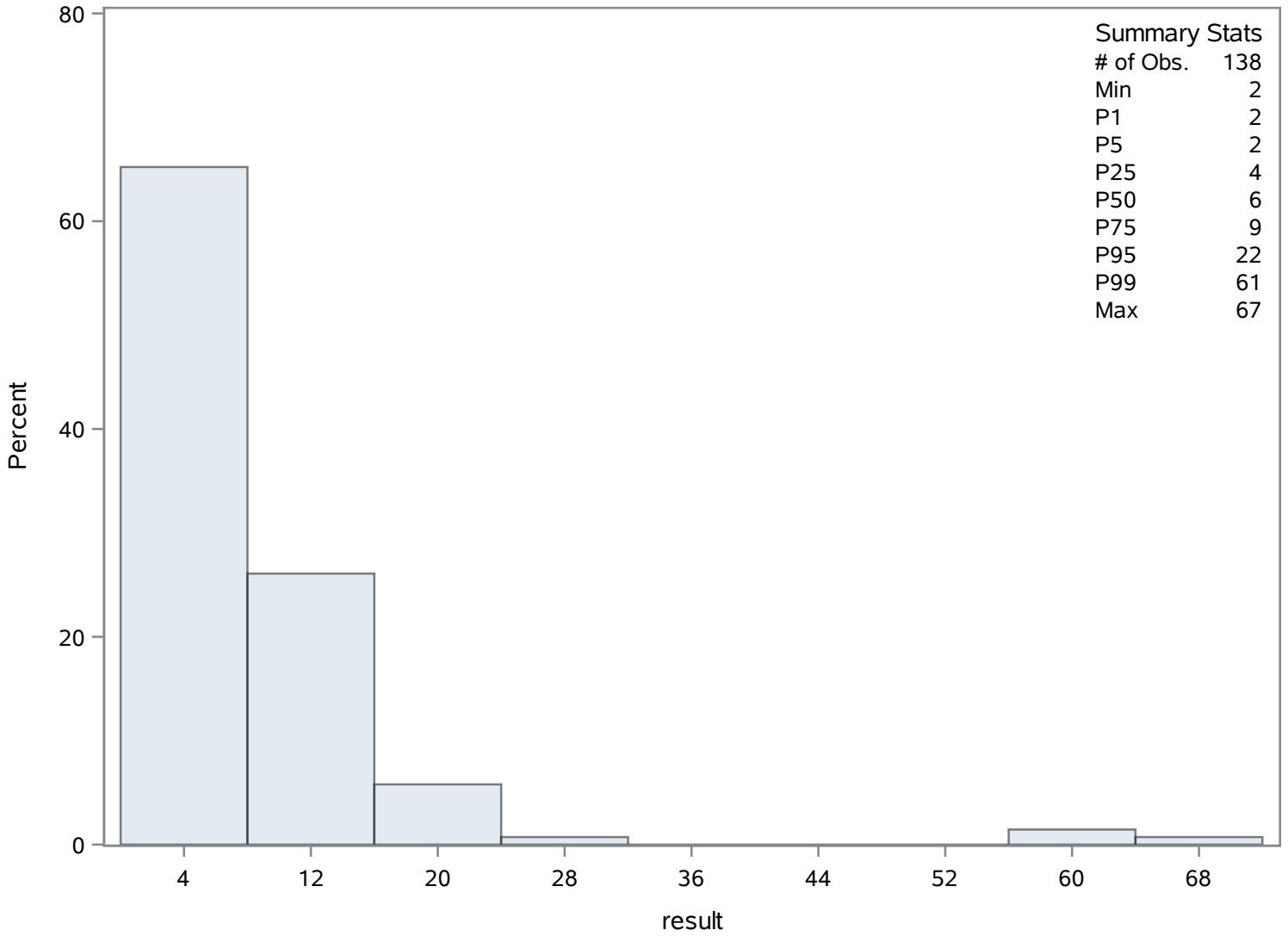
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	479	23	434
2	477	26	433
2	461	60	481
2	453	61	482
2	452	67	483

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	9.34514493	Sum Observations	1289.63
Std Deviation	3.16923722	Variance	10.0440646
Skewness	0.32754895	Kurtosis	0.29673415
Uncorrected SS	13427.8161	Corrected SS	1376.03685
Coeff Variation	33.913195	Std Error Mean	0.26978339

Basic Statistical Measures			
Location		Variability	
Mean	9.345145	Std Deviation	3.16924
Median	9.275000	Variance	10.04406
Mode	6.470000	Range	17.50000
		Interquartile Range	4.70000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	34.63944	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	19.900
99%	18.780
95%	14.310
90%	13.220
75% Q3	11.610
50% Median	9.275
25% Q1	6.910
10%	5.360
5%	4.530

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
DO_mgL

The UNIVARIATE Procedure
Variable: result

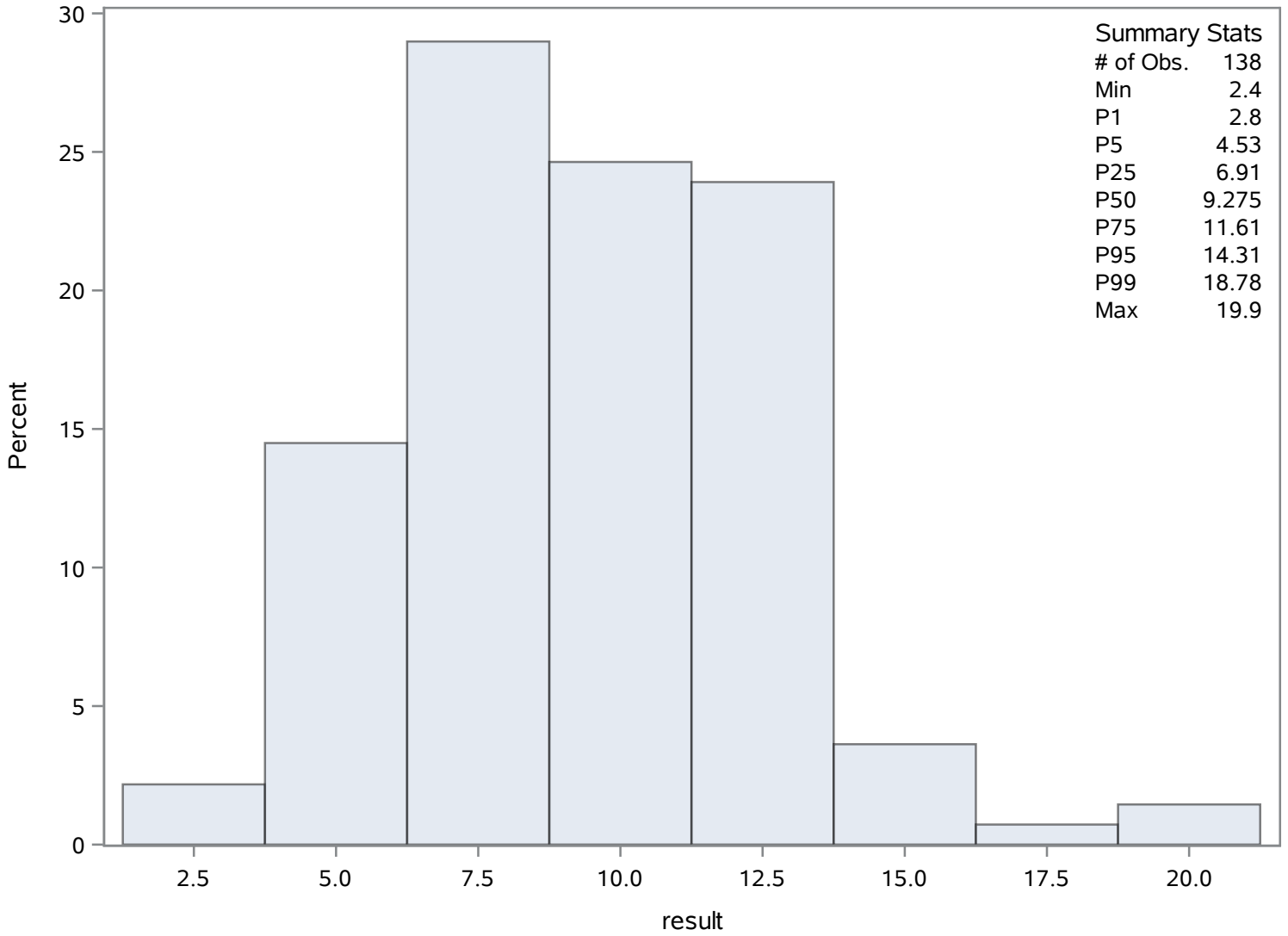
Quantiles (Definition 5)	
Level	Quantile
1%	2.800
0% Min	2.400

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.40	511	14.74	610
2.80	513	16.10	495
2.80	512	16.27	589
4.16	619	18.78	567
4.27	620	19.90	493

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	21.8463768	Sum Observations	3014.8
Std Deviation	15.136986	Variance	229.128344
Skewness	1.48974428	Kurtosis	3.0982969
Uncorrected SS	97253.04	Corrected SS	31390.5832
Coeff Variation	69.2883131	Std Error Mean	1.28854582

Basic Statistical Measures			
Location		Variability	
Mean	21.84638	Std Deviation	15.13699
Median	19.50000	Variance	229.12834
Mode	6.00000	Range	81.00000
		Interquartile Range	17.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.95429	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	84.0
99%	82.0
95%	53.0
90%	42.0
75% Q3	28.0
50% Median	19.5
25% Q1	11.0
10%	6.0
5%	5.0
1%	3.0
0% Min	3.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NH4_ugl

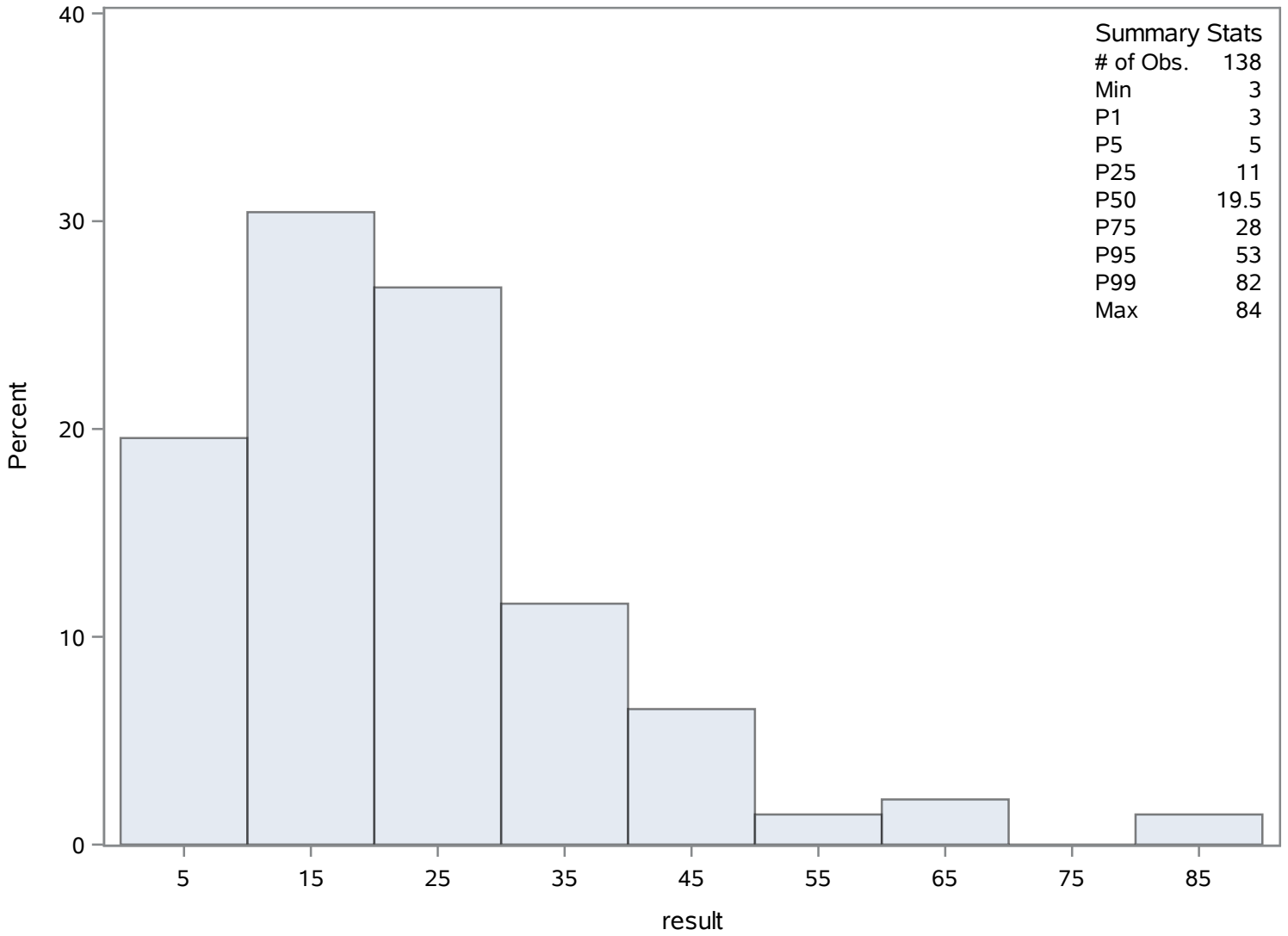
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	688	60	753
3	687	61	722
3	667	63	697
3	635	82	695
4	684	84	696

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	266.563043	Sum Observations	36785.7
Std Deviation	130.926278	Variance	17141.6904
Skewness	-0.309467	Kurtosis	-1.0037726
Uncorrected SS	12154119.7	Corrected SS	2348411.58
Coeff Variation	49.1164404	Std Error Mean	11.145185

Basic Statistical Measures			
Location		Variability	
Mean	266.5630	Std Deviation	130.92628
Median	282.5000	Variance	17142
Mode	430.0000	Range	510.00000
		Interquartile Range	221.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	23.91733	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	518.0
99%	500.0
95%	441.0
90%	428.0
75% Q3	381.0
50% Median	282.5
25% Q1	160.0
10%	64.0
5%	34.0
1%	8.0
0% Min	8.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NO3_ugL

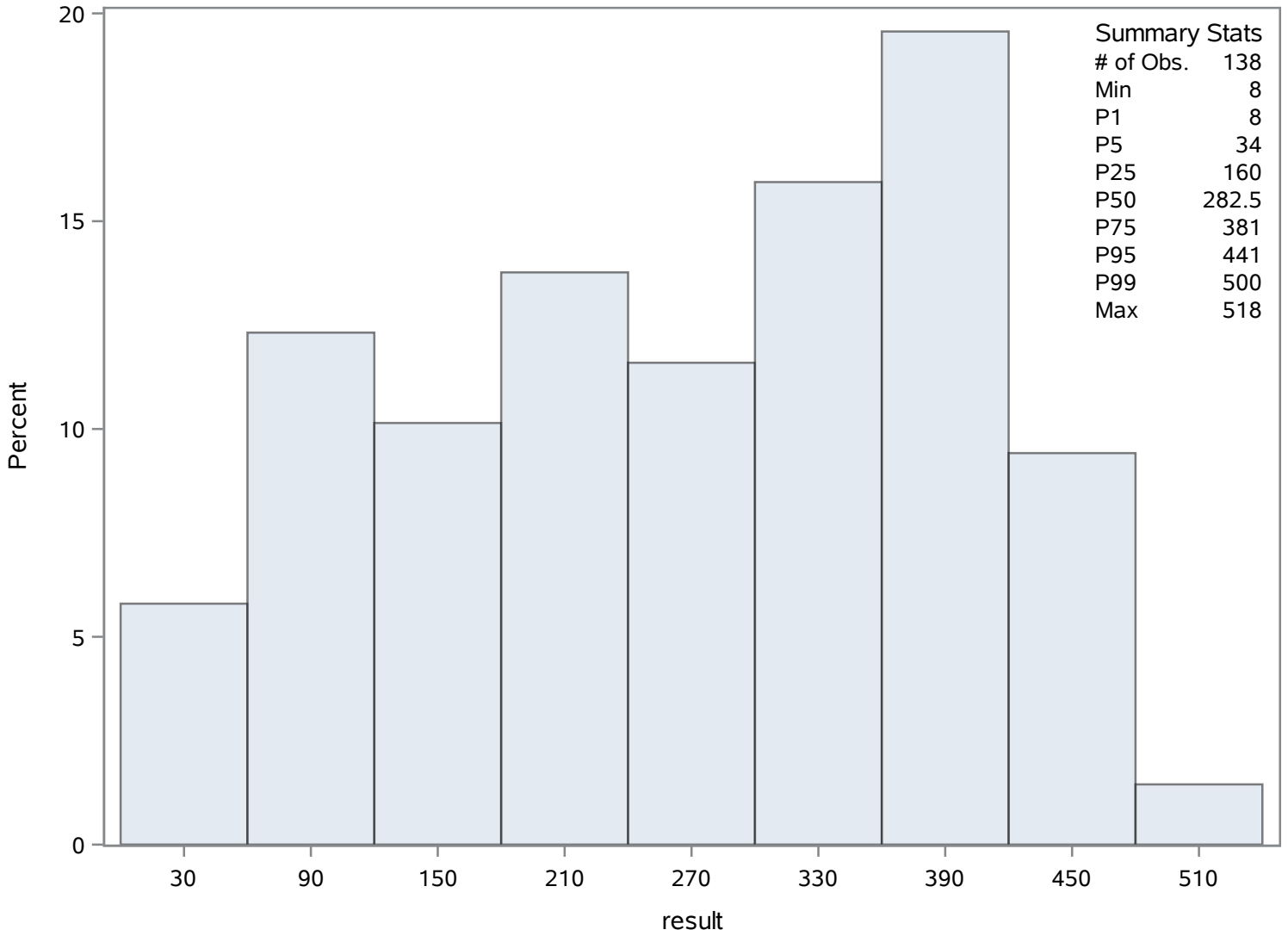
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8	882	451	887
8	881	455	891
10	880	467	900
17	784	500	867
29	786	518	873

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	2.43826087	Sum Observations	336.48
Std Deviation	0.65905364	Variance	0.4343517
Skewness	0.38918562	Kurtosis	0.14180164
Uncorrected SS	879.9322	Corrected SS	59.5061826
Coeff Variation	27.0296606	Std Error Mean	0.05610237

Basic Statistical Measures			
Location		Variability	
Mean	2.438261	Std Deviation	0.65905
Median	2.450000	Variance	0.43435
Mode	2.600000	Range	3.06000
		Interquartile Range	0.83000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	43.46092	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.36
99%	4.35
95%	3.63
90%	3.20
75% Q3	2.83
50% Median	2.45
25% Q1	2.00
10%	1.51
5%	1.44
1%	1.32
0% Min	1.30

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SAL_Perc

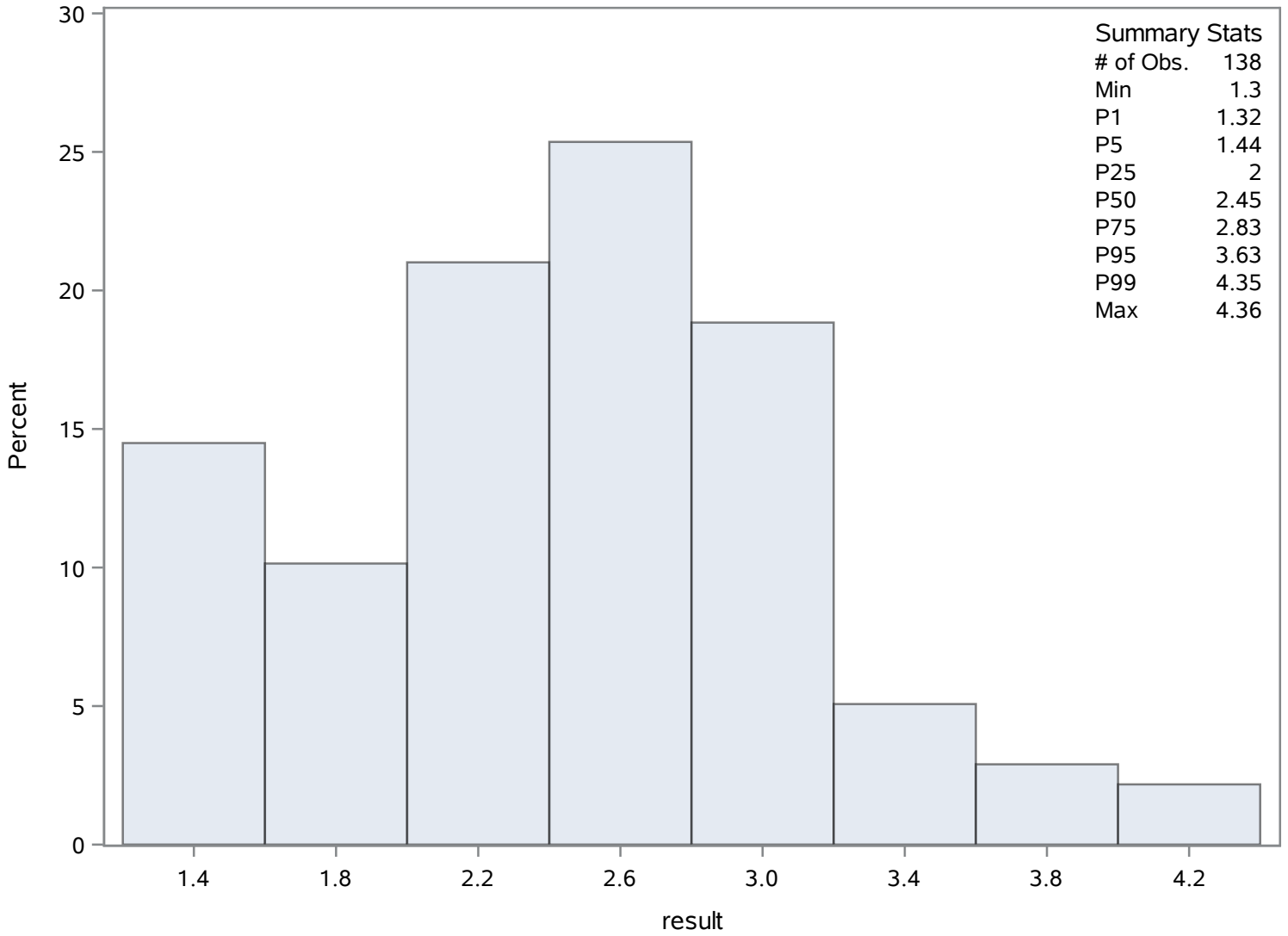
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.30	954	3.70	1006
1.32	953	3.74	940
1.33	955	4.31	987
1.34	957	4.35	985
1.38	956	4.36	986

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.55965942	Sum Observations	629.233
Std Deviation	1.18965783	Variance	1.41528574
Skewness	0.50177271	Kurtosis	0.53250785
Uncorrected SS	3062.98232	Corrected SS	193.894147
Coeff Variation	26.0909361	Std Error Mean	0.1012704

Basic Statistical Measures			
Location		Variability	
Mean	4.559659	Std Deviation	1.18966
Median	4.528000	Variance	1.41529
Mode	2.840000	Range	5.75100
		Interquartile Range	1.48100

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	45.0246	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.281
99%	8.267
95%	6.610
90%	5.910
75% Q3	5.267
50% Median	4.528
25% Q1	3.786
10%	2.920
5%	2.775

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

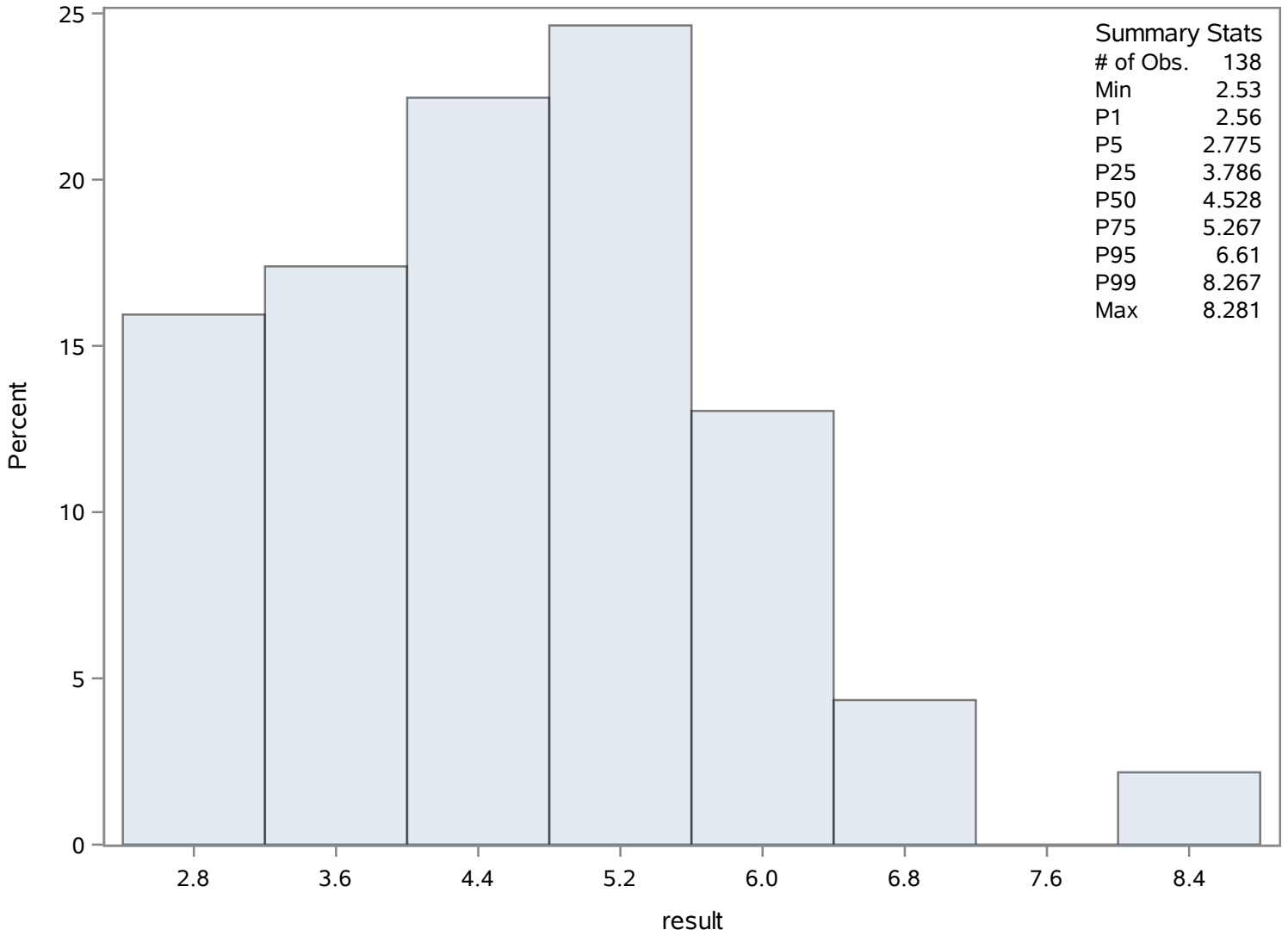
Quantiles (Definition 5)	
Level	Quantile
1%	2.560
0% Min	2.530

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.53	1092	6.743	1144
2.56	1091	6.800	1078
2.58	1093	8.199	1125
2.59	1095	8.267	1123
2.66	1094	8.281	1124

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	8.2962963	Sum Observations	1120
Std Deviation	4.42866186	Variance	19.6130459
Skewness	0.1243907	Kurtosis	-1.0795805
Uncorrected SS	11920	Corrected SS	2628.14815
Coeff Variation	53.3811921	Std Error Mean	0.38115853

Basic Statistical Measures			
Location		Variability	
Mean	8.296296	Std Deviation	4.42866
Median	8.000000	Variance	19.61305
Mode	3.000000	Range	16.00000
		Interquartile Range	8.00000

Note: The mode displayed is the smallest of 2 modes with a count of 15.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	21.766	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	17
99%	17
95%	16
90%	14
75% Q3	12
50% Median	8
25% Q1	4
10%	3
5%	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SRP_ugL

The UNIVARIATE Procedure
Variable: result

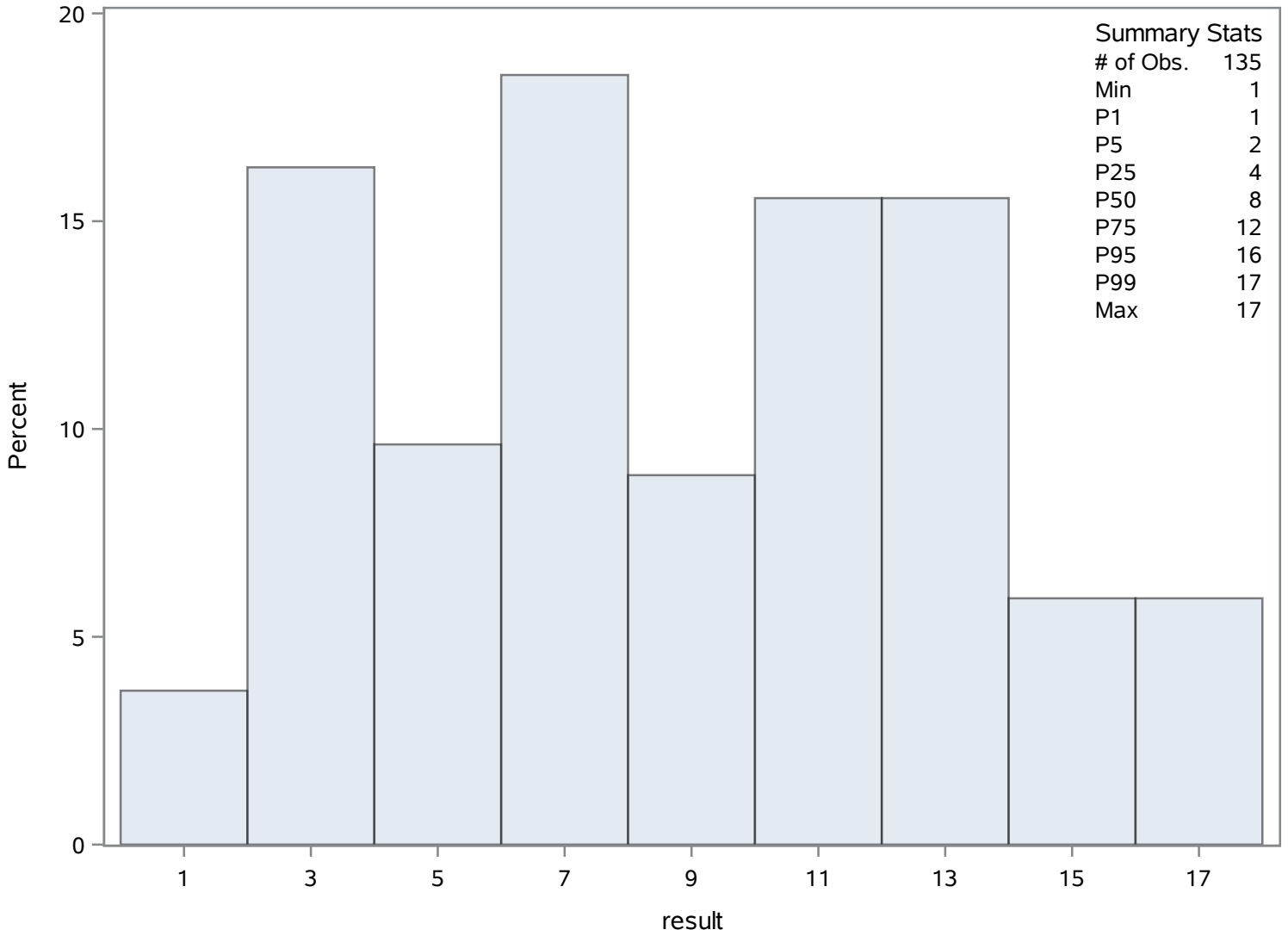
Quantiles (Definition 5)	
Level	Quantile
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1209	16	1239
1	1208	17	1258
1	1185	17	1306
1	1184	17	1307
1	1183	17	1308

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.8200725	Sum Observations	3287.17
Std Deviation	2.05034535	Variance	4.20391605
Skewness	0.01747104	Kurtosis	-0.8782654
Uncorrected SS	78876.5641	Corrected SS	575.936499
Coeff Variation	8.60763691	Std Error Mean	0.17453699

Basic Statistical Measures			
Location		Variability	
Mean	23.82007	Std Deviation	2.05035
Median	23.90000	Variance	4.20392
Mode	23.80000	Range	8.61000
		Interquartile Range	3.31000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	136.4758	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	27.51
99%	27.50
95%	27.32
90%	26.71
75% Q3	25.47
50% Median	23.90
25% Q1	22.16
10%	21.20
5%	20.69
1%	19.70
0% Min	18.90

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TEMP_C

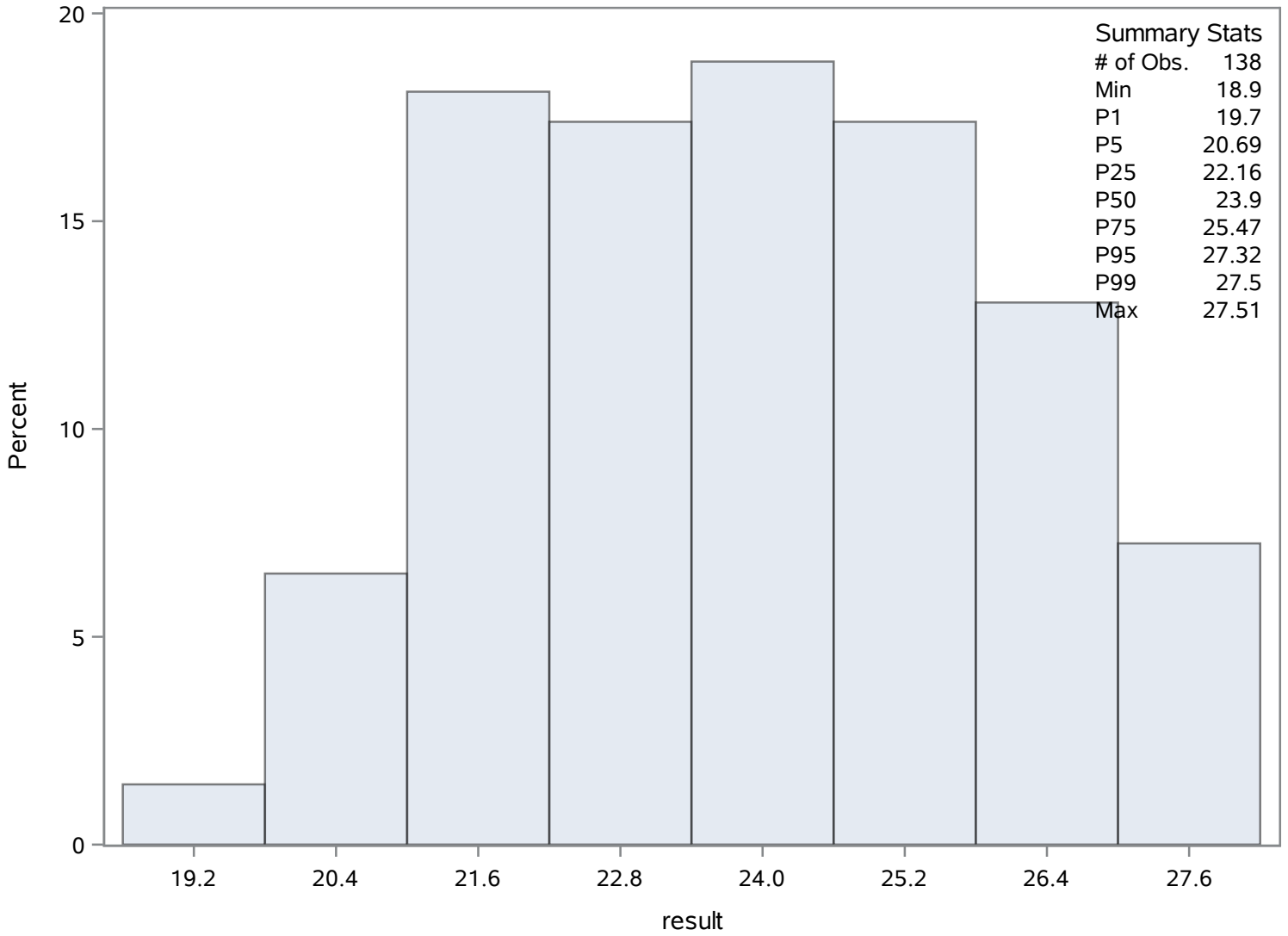
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.90	1339	27.44	1397
19.70	1341	27.45	1396
19.80	1340	27.50	1334
20.33	1375	27.50	1335
20.50	1318	27.51	1398

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	433.586957	Sum Observations	59835
Std Deviation	159.187477	Variance	25340.653
Skewness	1.19895422	Kurtosis	3.44729136
Uncorrected SS	29415345	Corrected SS	3471669.46
Coeff Variation	36.7140835	Std Error Mean	13.550938

Basic Statistical Measures			
Location		Variability	
Mean	433.5870	Std Deviation	159.18748
Median	430.0000	Variance	25341
Mode	540.0000	Range	960.00000
		Interquartile Range	190.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	31.99682	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1120
99%	1090
95%	700
90%	610
75% Q3	520
50% Median	430
25% Q1	330
10%	230
5%	210
1%	180
0% Min	160

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TN_ugl

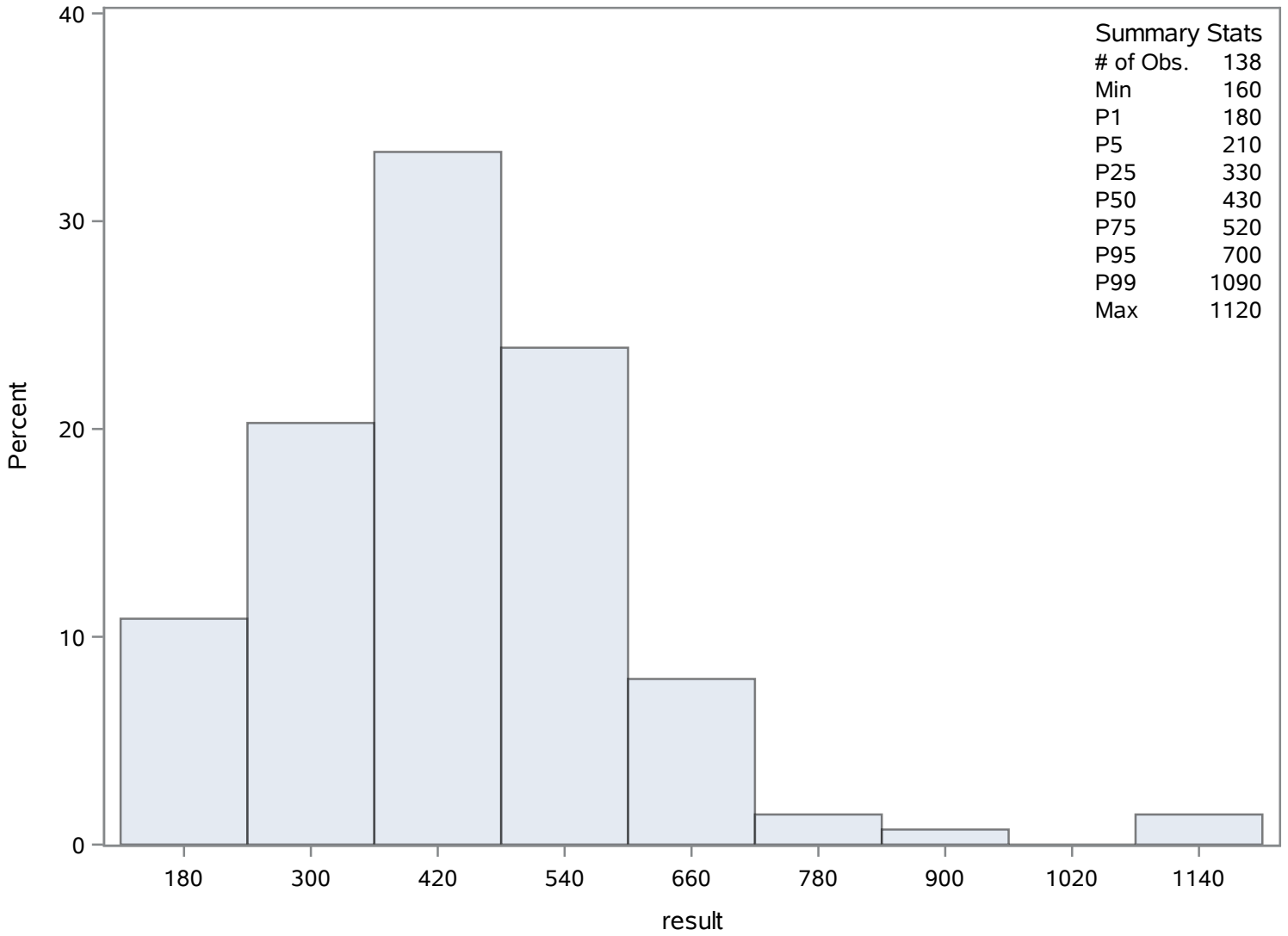
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
160	1519	730	1568
180	1497	750	1583
180	1495	880	1571
190	1521	1090	1567
200	1460	1120	1569

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	20.7681159	Sum Observations	2866
Std Deviation	18.445932	Variance	340.252407
Skewness	5.80061615	Kurtosis	37.3204458
Uncorrected SS	106136	Corrected SS	46614.5797
Coeff Variation	88.8185141	Std Error Mean	1.57022201

Basic Statistical Measures			
Location		Variability	
Mean	20.76812	Std Deviation	18.44593
Median	18.00000	Variance	340.25241
Mode	16.00000	Range	142.00000
		Interquartile Range	7.00000

Note: The mode displayed is the smallest of 2 modes with a count of 13.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	13.22623	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	151
99%	150
95%	36
90%	28
75% Q3	21
50% Median	18
25% Q1	14
10%	11
5%	10

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TP_ugl

The UNIVARIATE Procedure
Variable: result

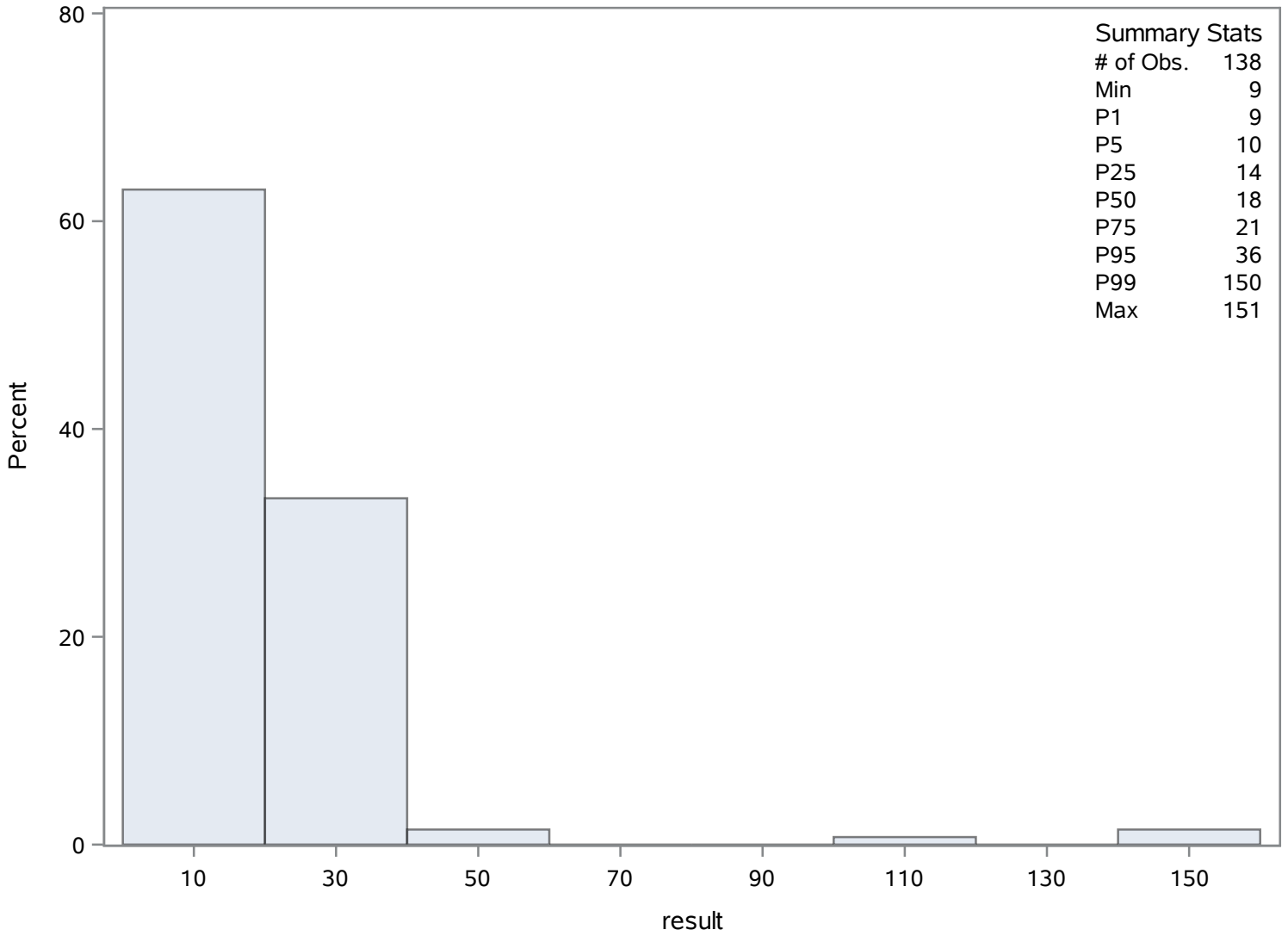
Quantiles (Definition 5)	
Level	Quantile
1%	9
0% Min	9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9	1714	40	1653
9	1695	41	1697
9	1657	103	1706
9	1645	150	1707
9	1621	151	1705

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station

Source: UF 5 Rivers Study

Transect 6

pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	8.01175926	Sum Observations	865.27
Std Deviation	0.37261347	Variance	0.1388408
Skewness	-0.0143519	Kurtosis	-0.6754204
Uncorrected SS	6947.1909	Corrected SS	14.8559657
Coeff Variation	4.65083214	Std Error Mean	0.03585475

Basic Statistical Measures			
Location		Variability	
Mean	8.011759	Std Deviation	0.37261
Median	8.070000	Variance	0.13884
Mode	7.580000	Range	1.70000
		Interquartile Range	0.64000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	223.4504	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.04
99%	8.82
95%	8.52
90%	8.45
75% Q3	8.32
50% Median	8.07
25% Q1	7.68
10%	7.47
5%	7.42

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Field

The UNIVARIATE Procedure
Variable: result

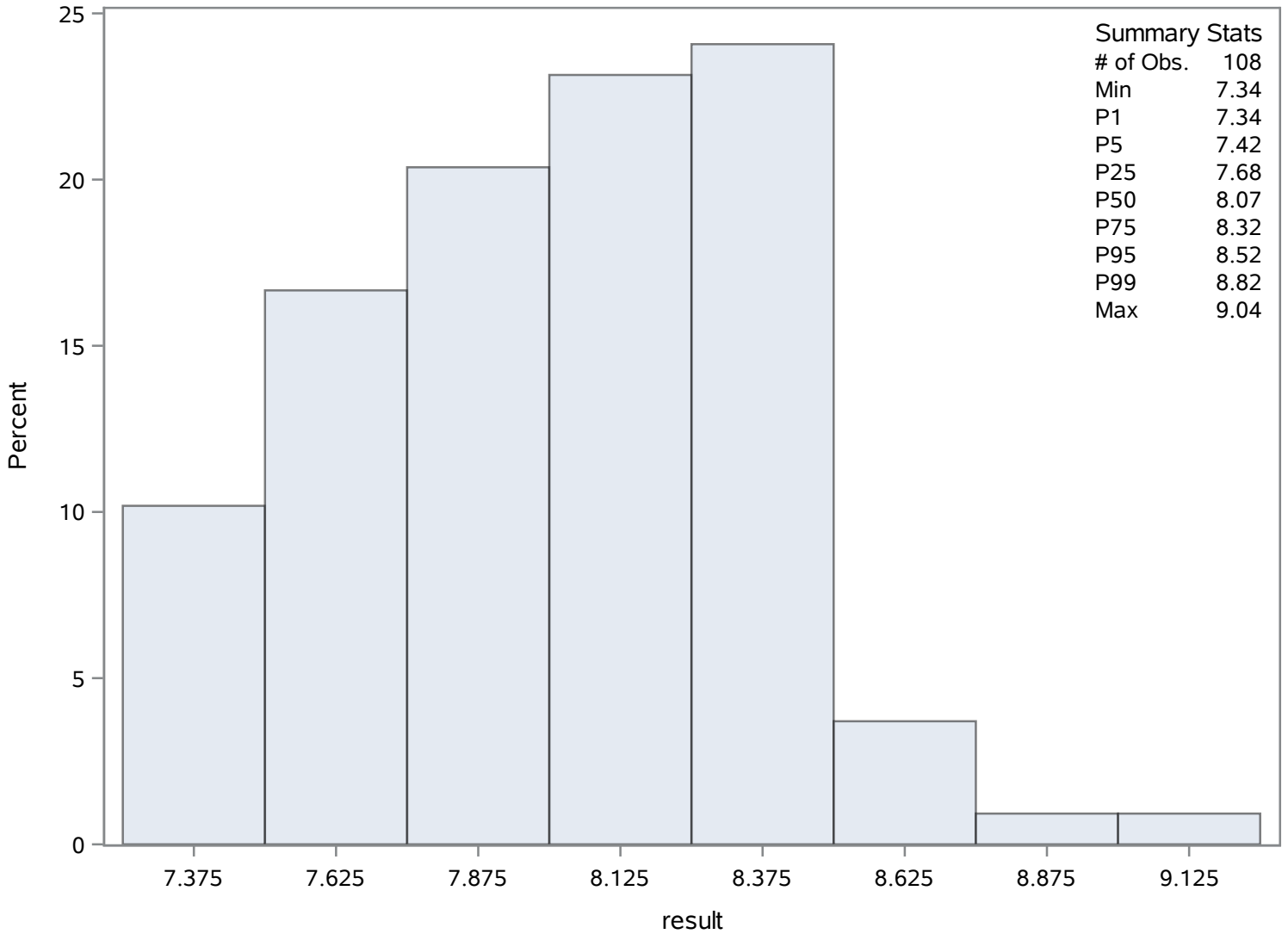
Quantiles (Definition 5)	
Level	Quantile
1%	7.34
0% Min	7.34

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.34	1793	8.53	1822
7.34	1780	8.55	1815
7.36	1781	8.66	1812
7.38	1782	8.82	1798
7.41	1792	9.04	1776

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8.10144928	Sum Observations	1118
Std Deviation	0.32397745	Variance	0.10496139
Skewness	0.21943773	Kurtosis	-0.4994166
Uncorrected SS	9071.8	Corrected SS	14.3797101
Coeff Variation	3.99900609	Std Error Mean	0.02757879

Basic Statistical Measures			
Location		Variability	
Mean	8.101449	Std Deviation	0.32398
Median	8.100000	Variance	0.10496
Mode	8.100000	Range	1.40000
		Interquartile Range	0.40000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	293.7565	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.9
99%	8.9
95%	8.7
90%	8.5
75% Q3	8.3
50% Median	8.1
25% Q1	7.9
10%	7.7
5%	7.6
1%	7.5
0% Min	7.5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Lab

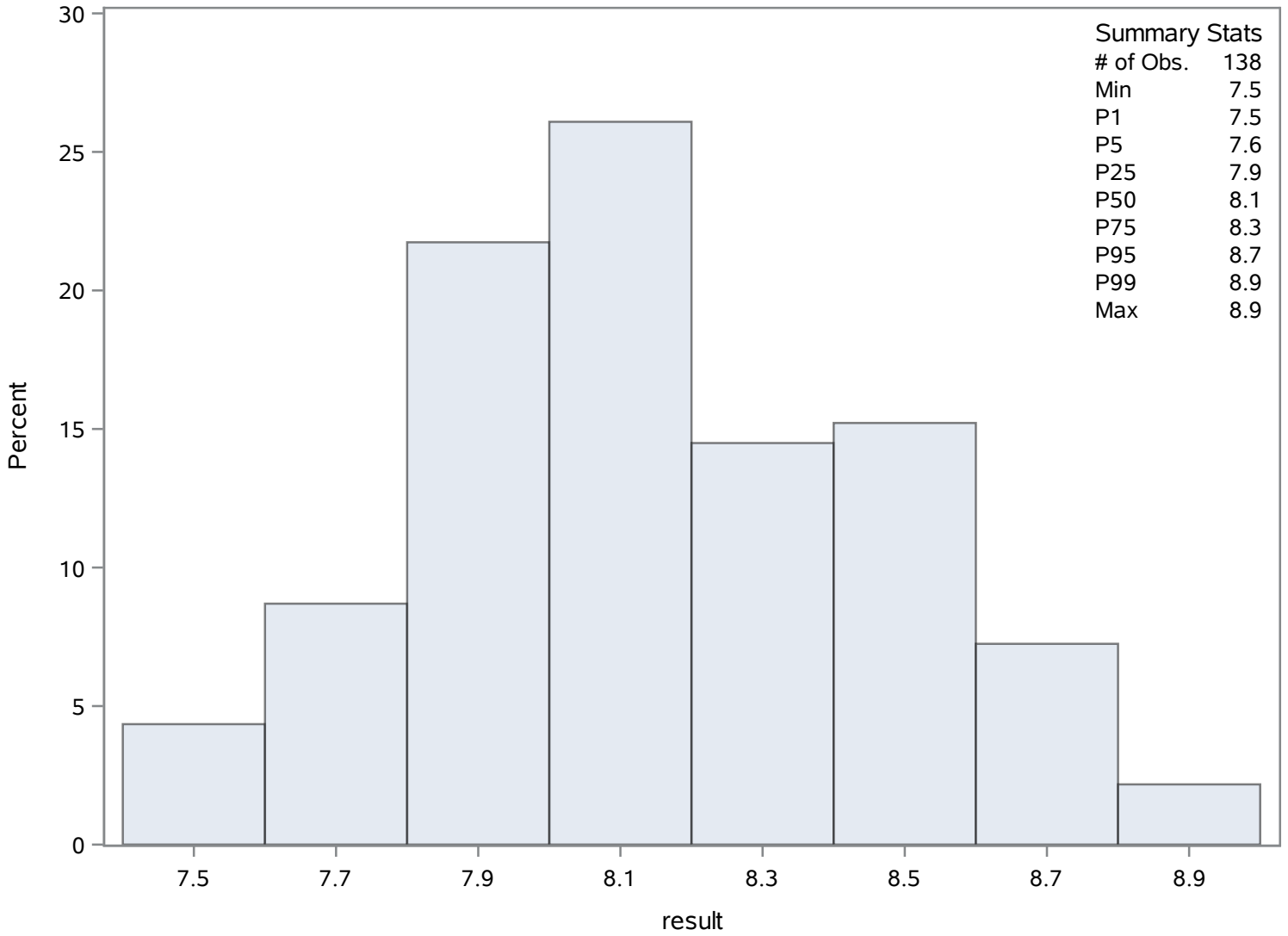
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.5	1968	8.7	1936
7.5	1967	8.7	1953
7.5	1966	8.8	1914
7.5	1860	8.9	1837
7.5	1859	8.9	1840

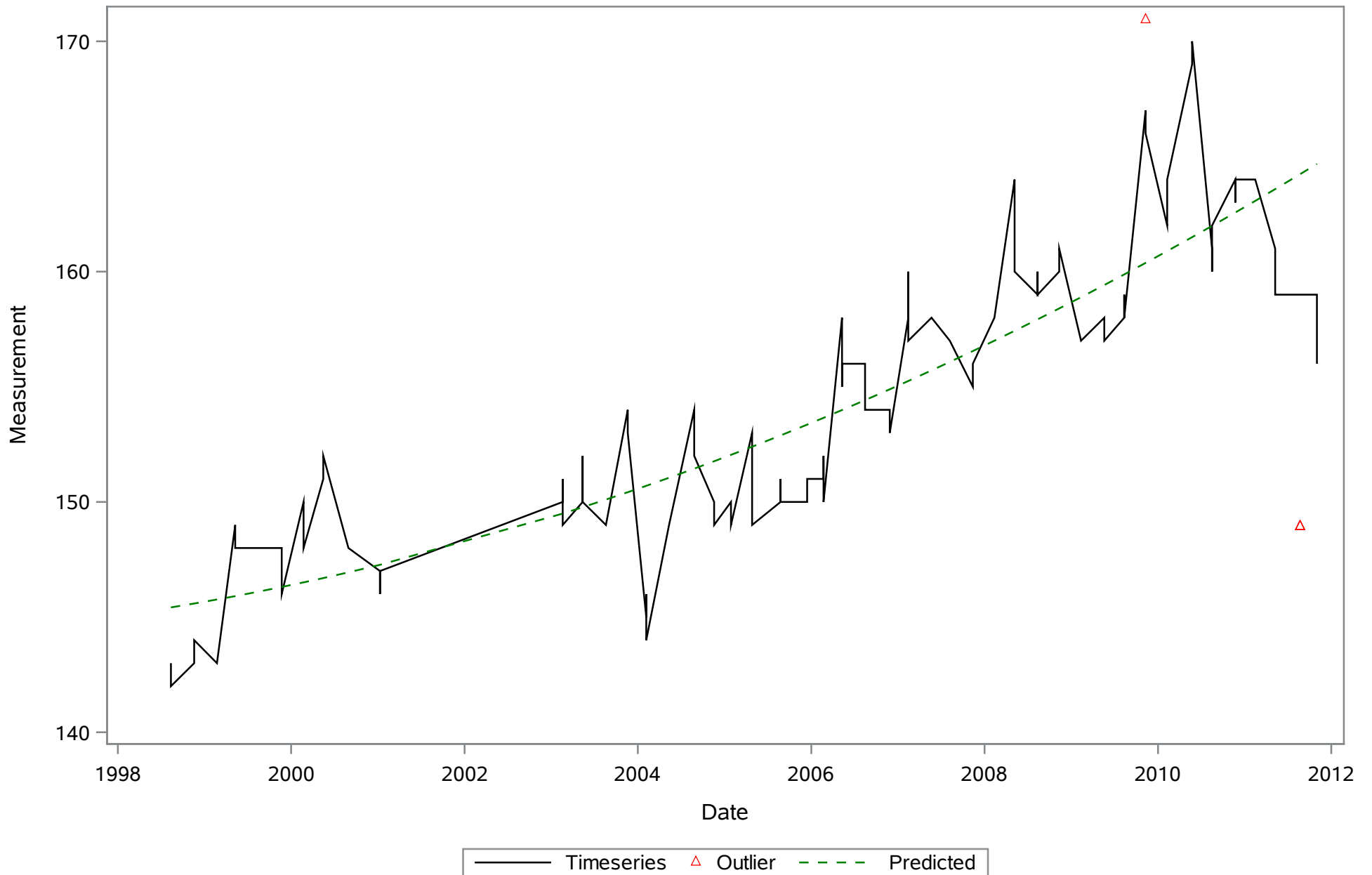
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Lab

The UNIVARIATE Procedure

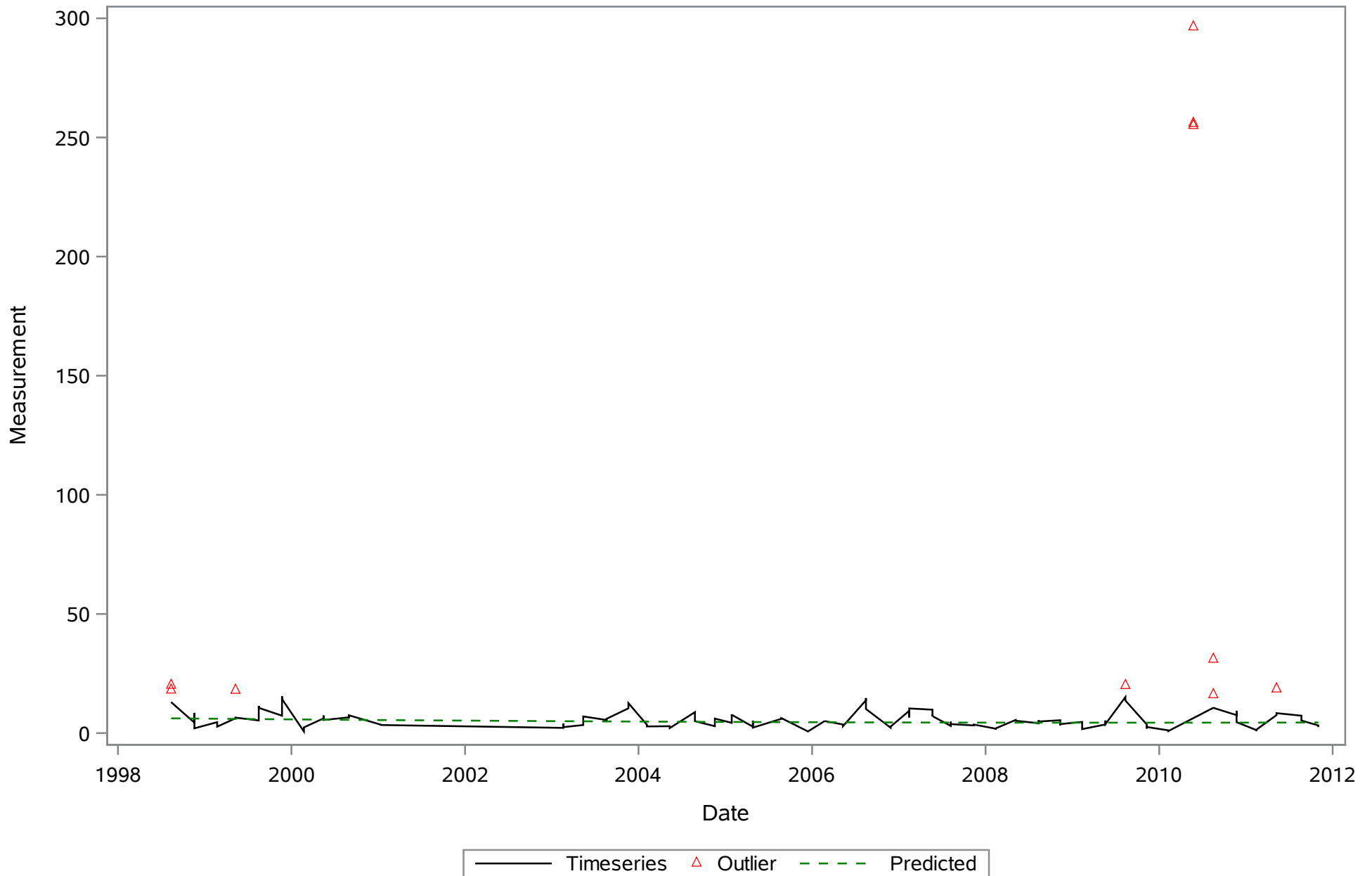
Distribution of result



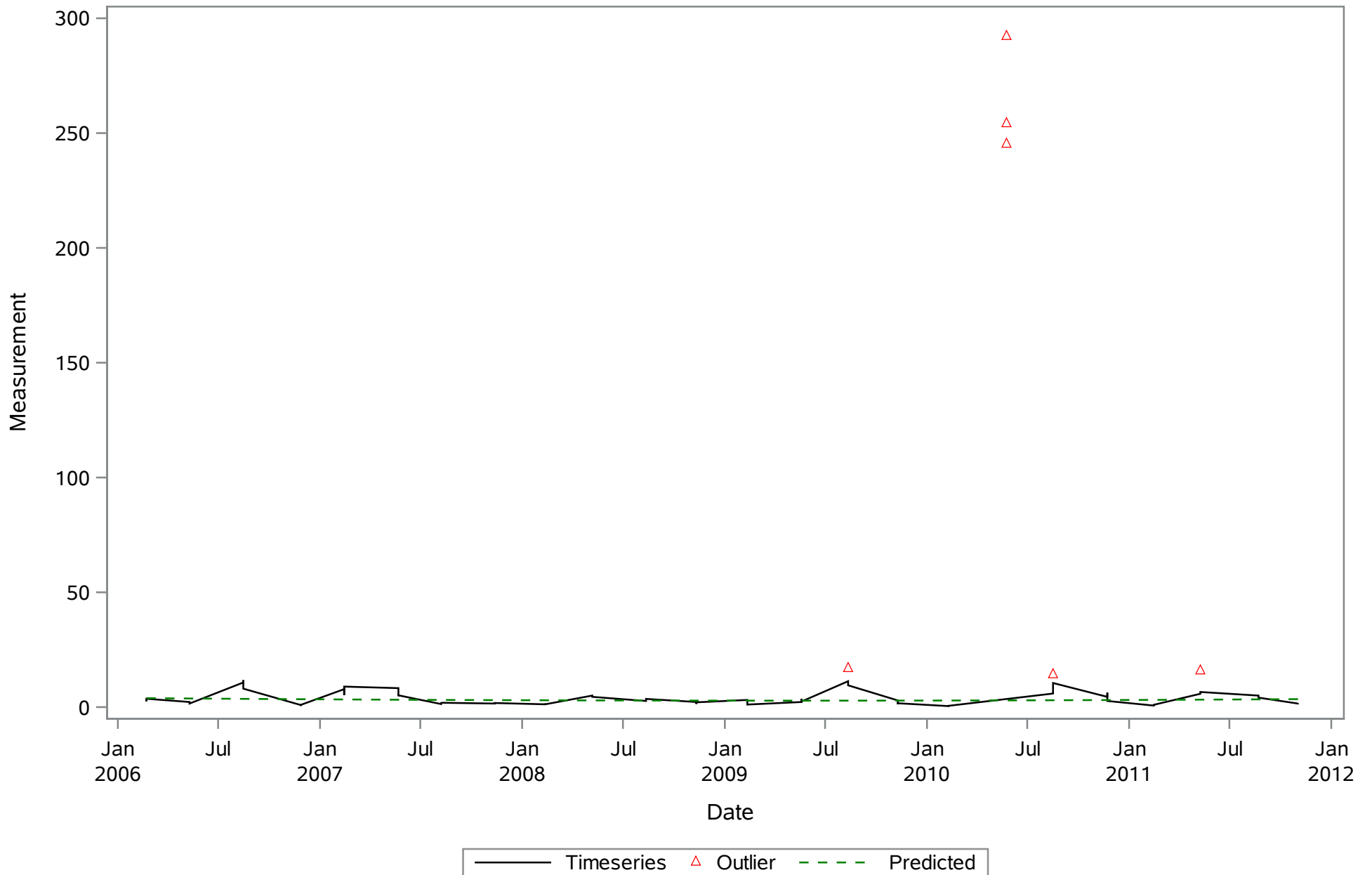
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
ALK_tot_mgL



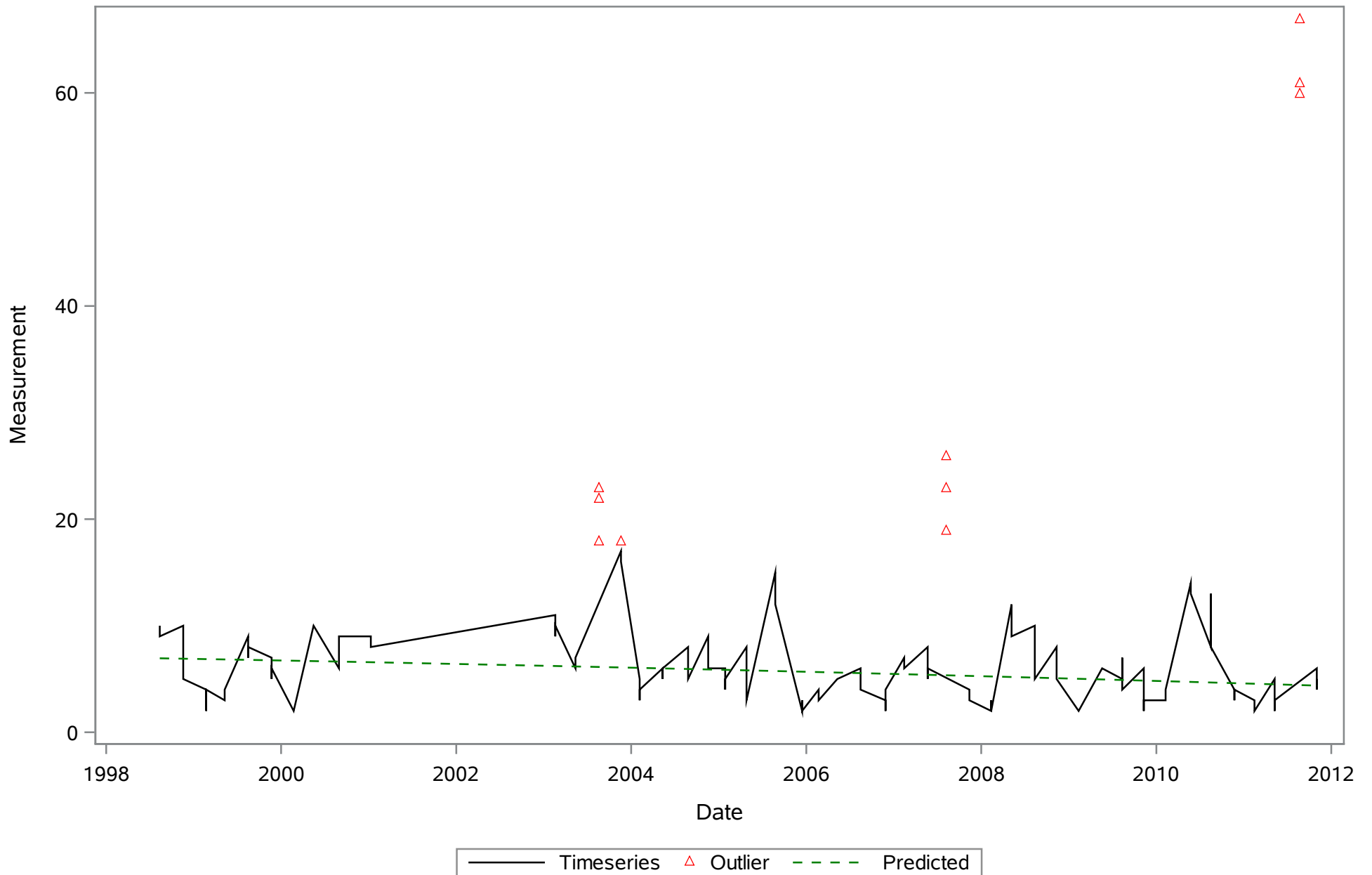
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_Uncor_ugL



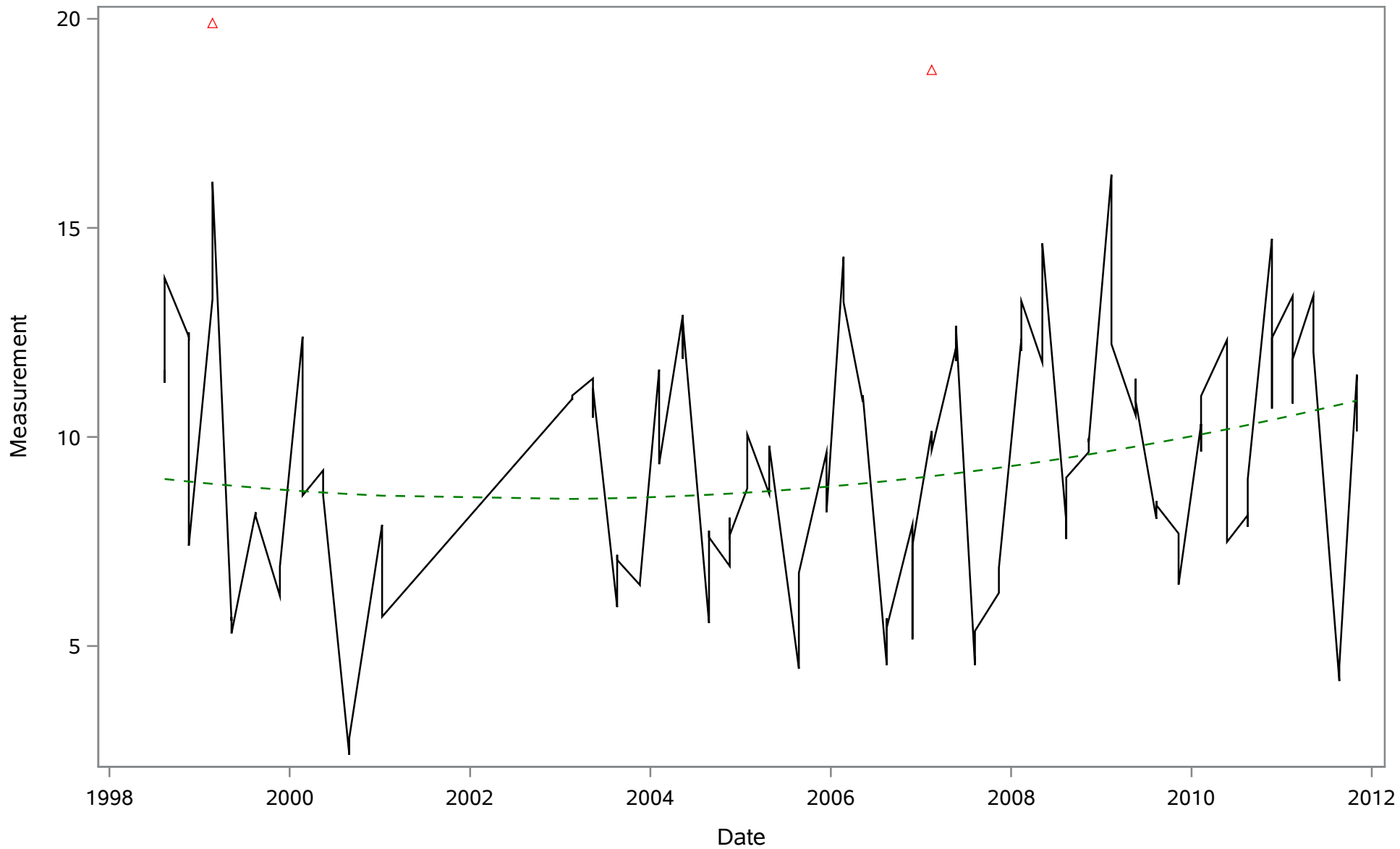
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_cor_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
COLOR_PtCo

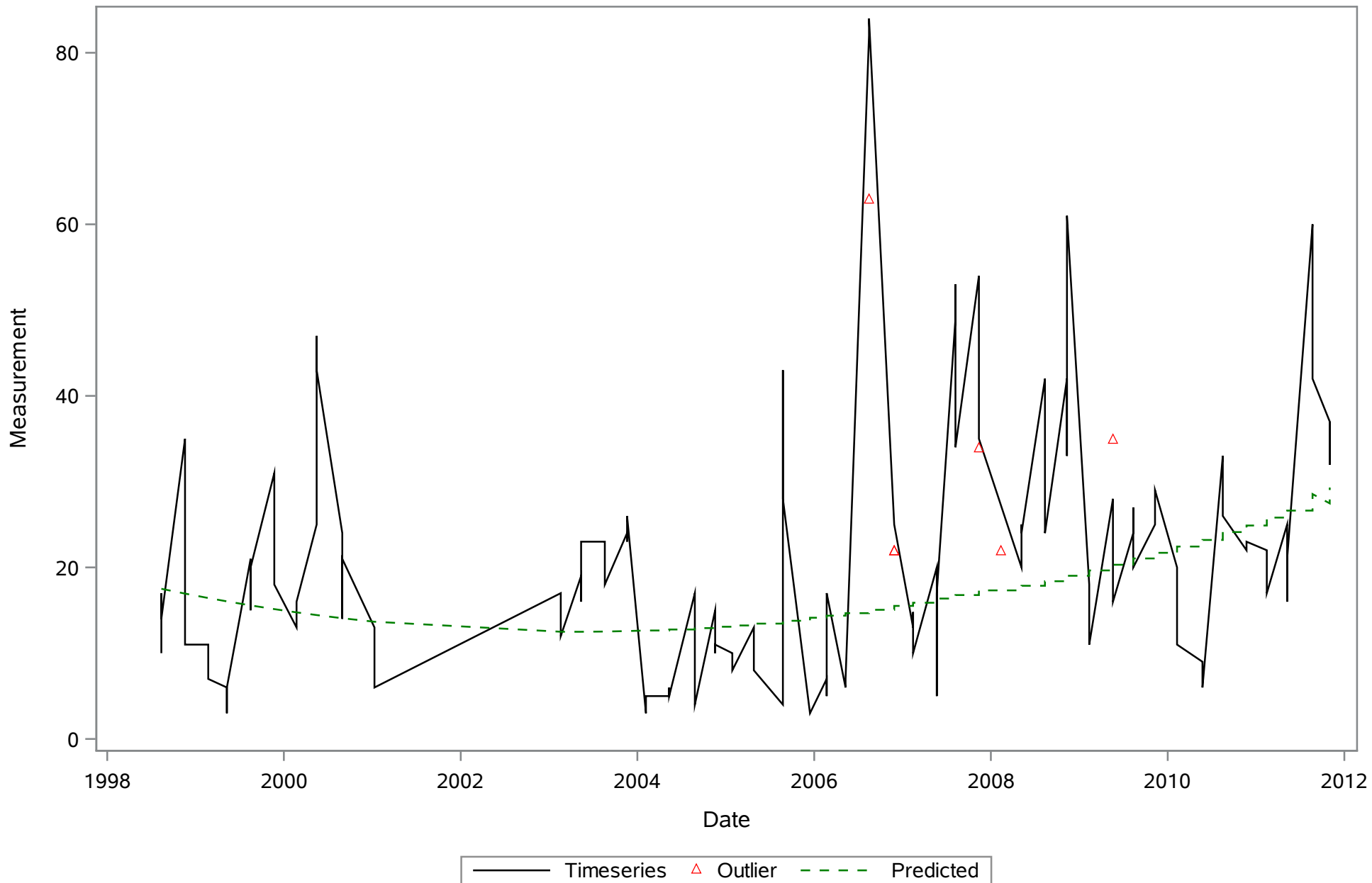


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
DO_mgL

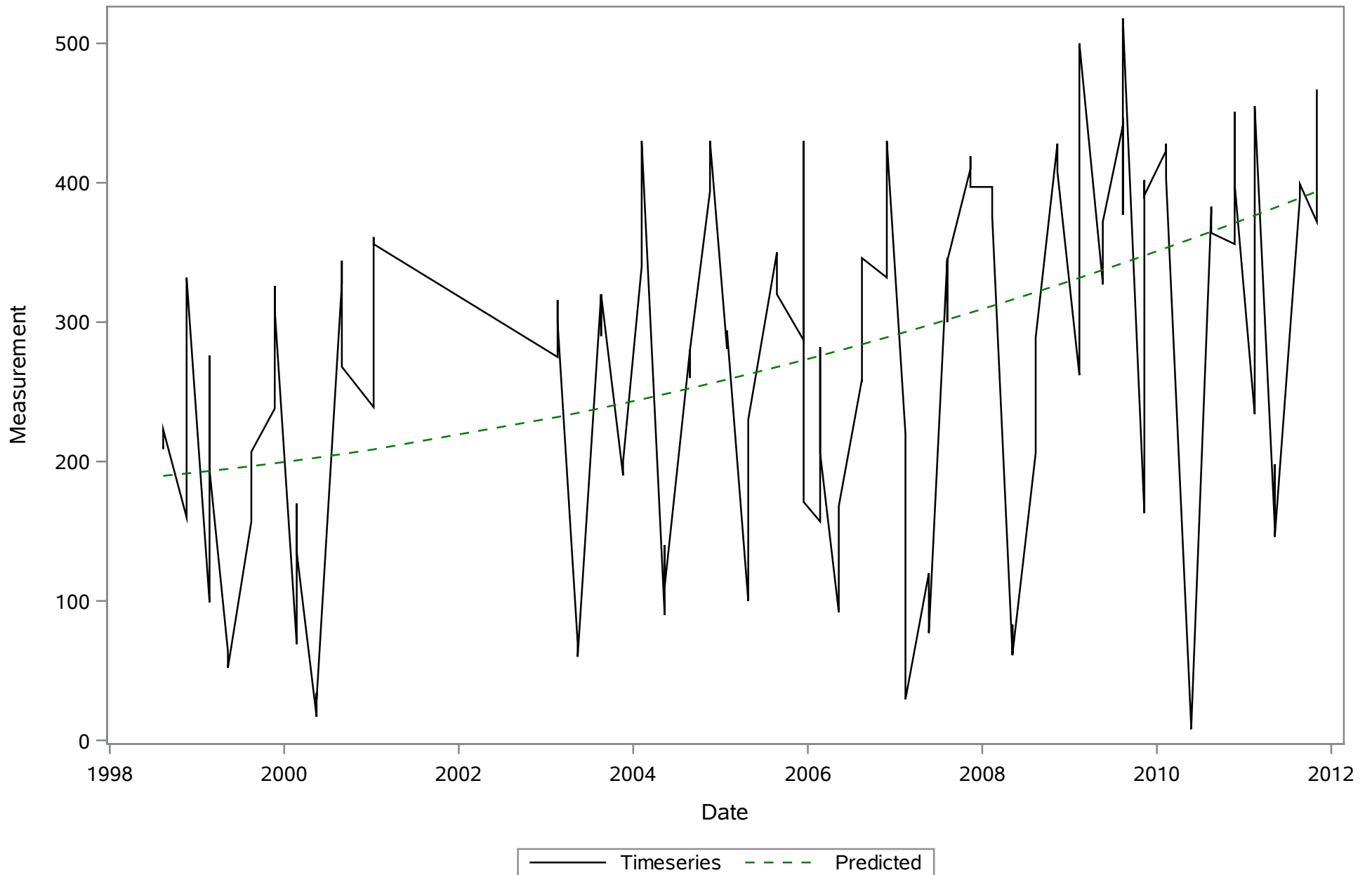


— Timeseries △ Outlier - - - Predicted

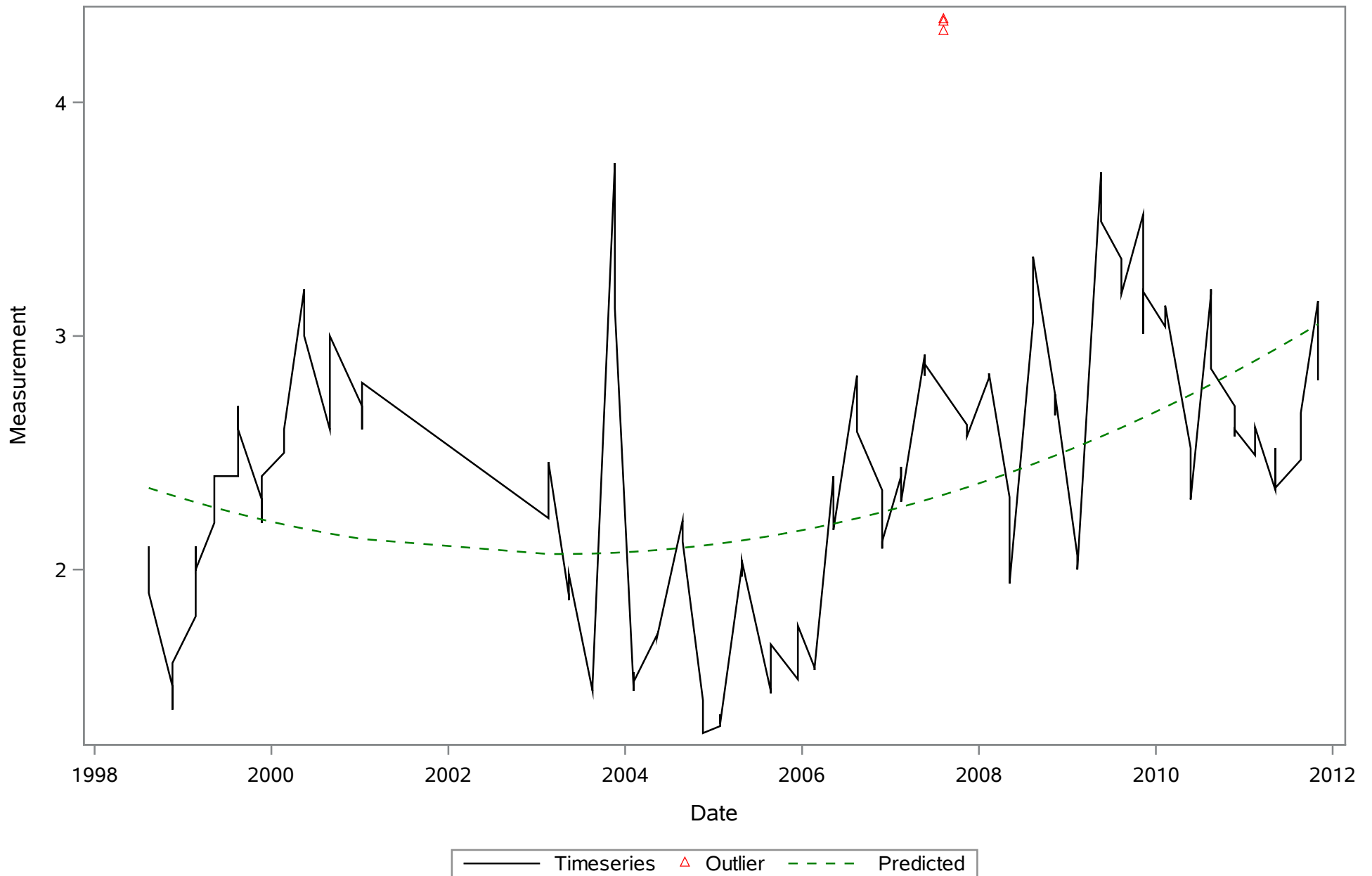
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NH4_ugl



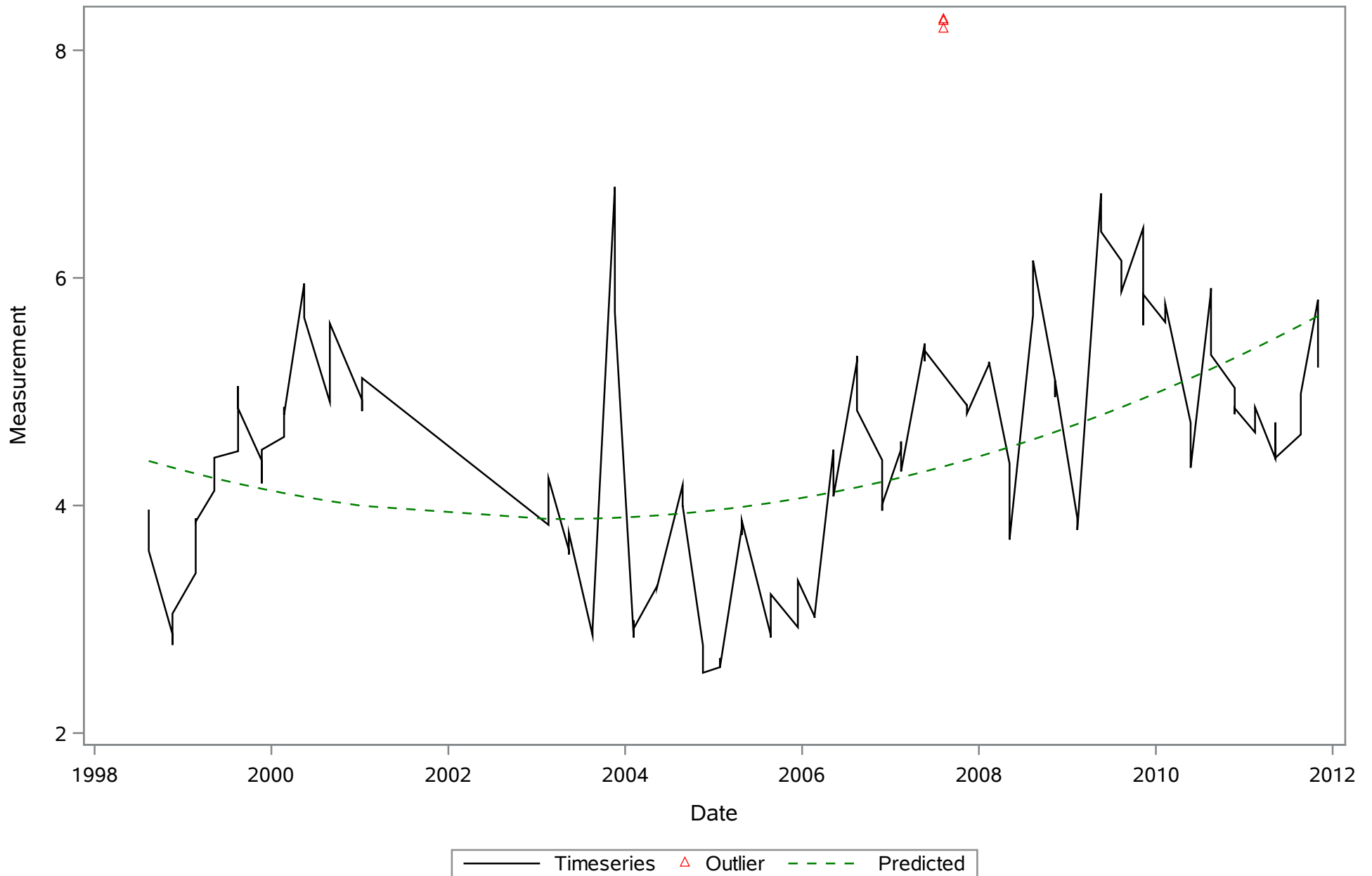
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NO3_ugL



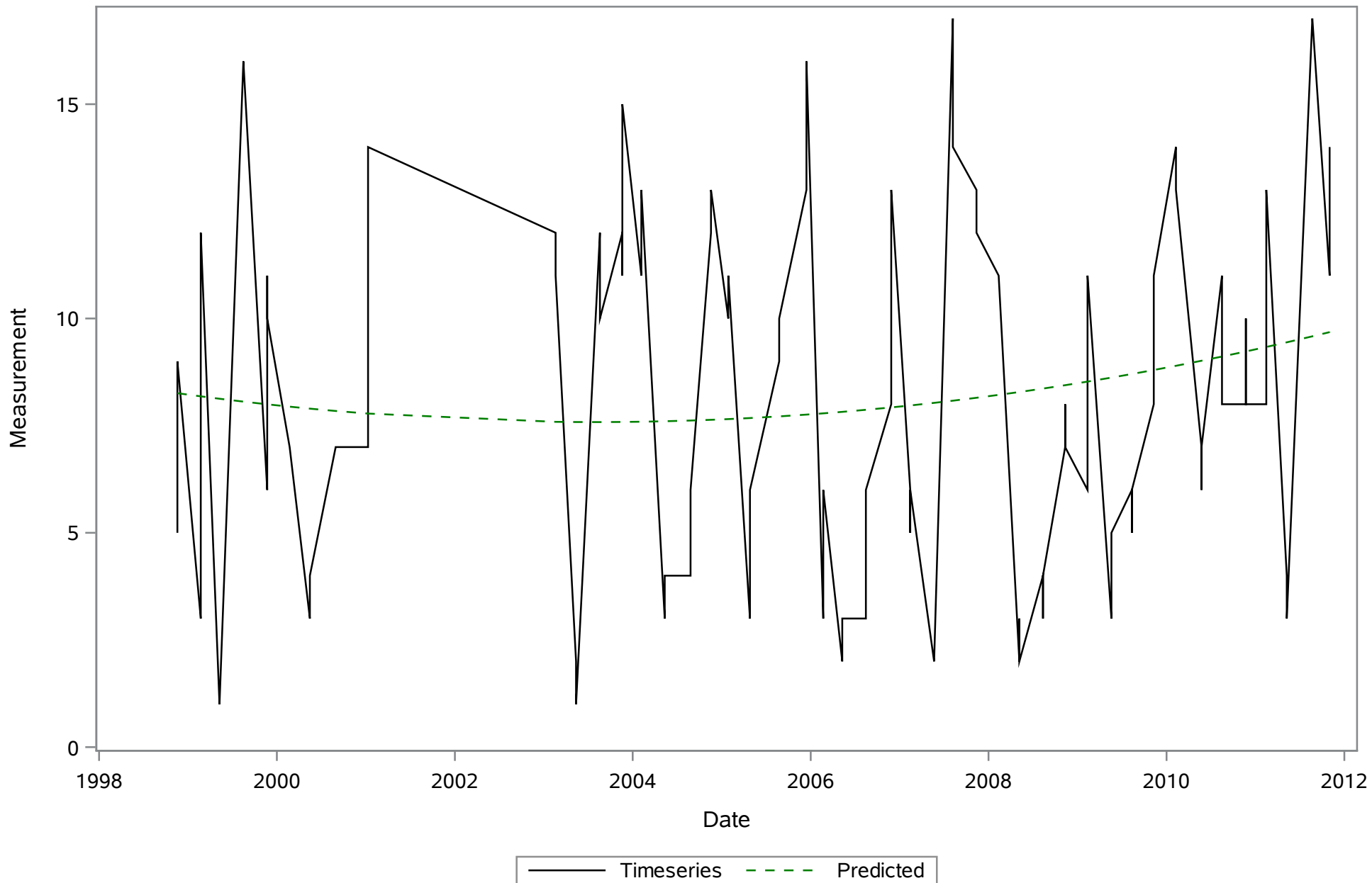
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SAL_Perc



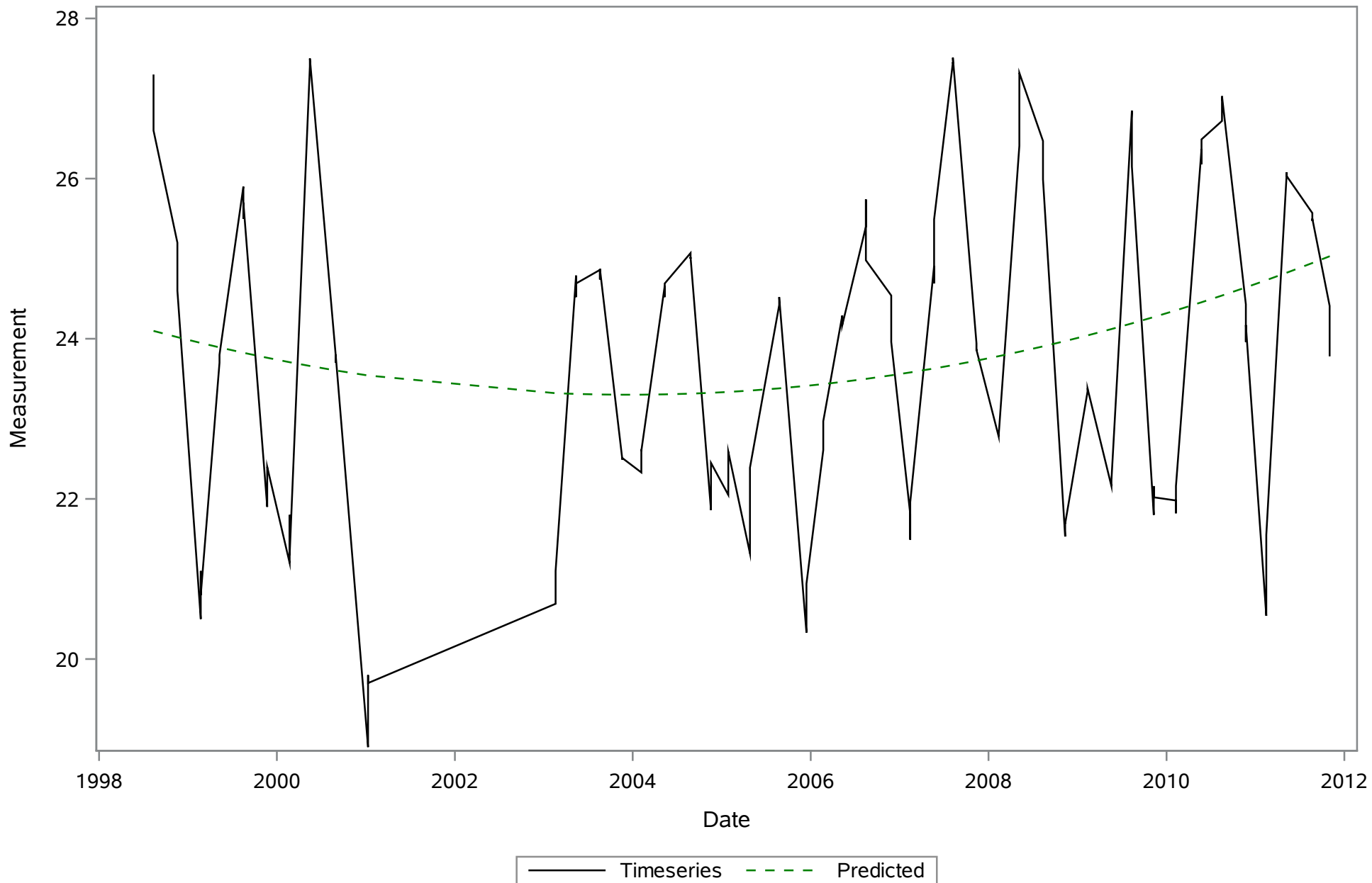
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SPCOND_mS_cm



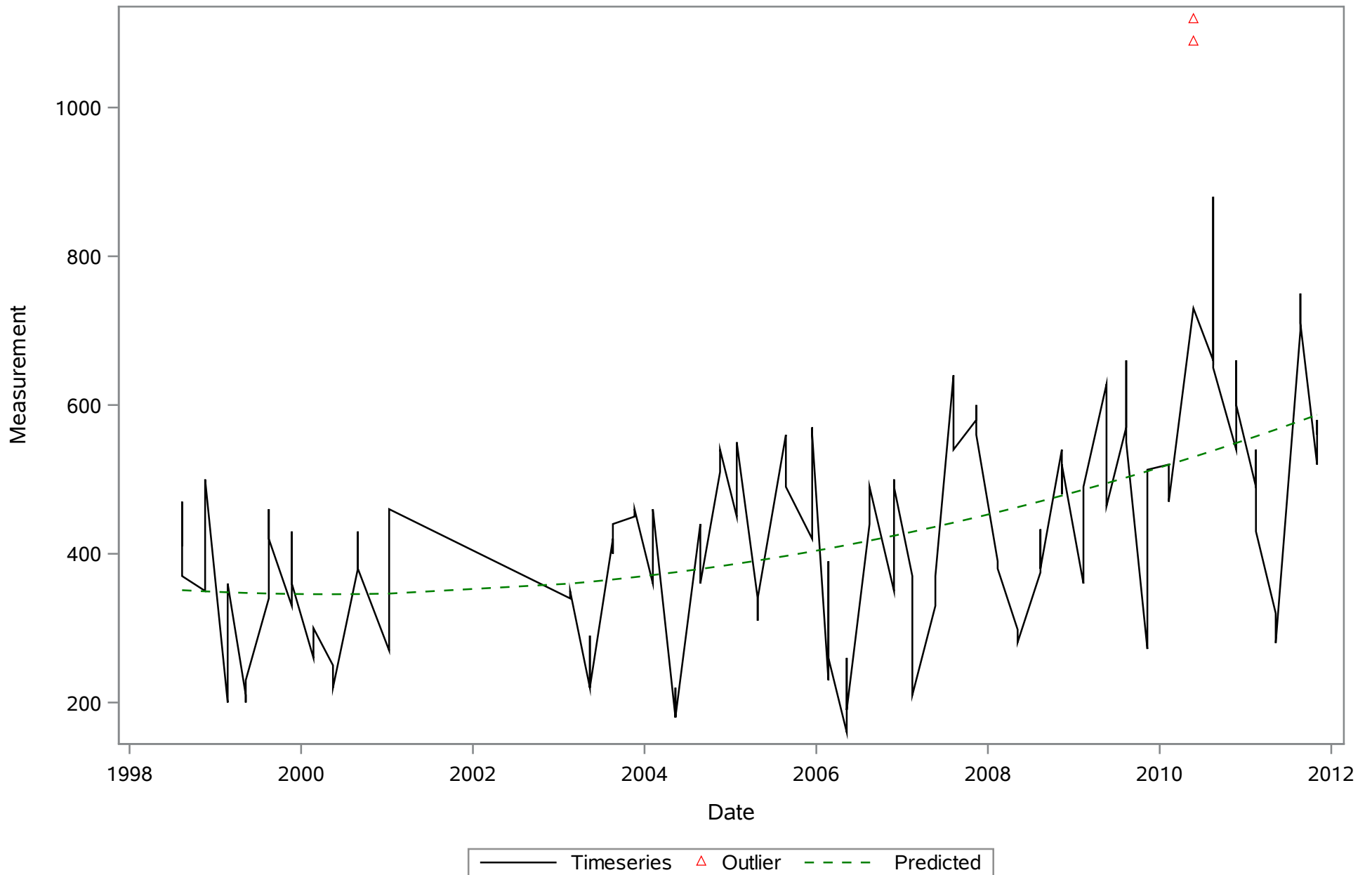
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SRP_ugL



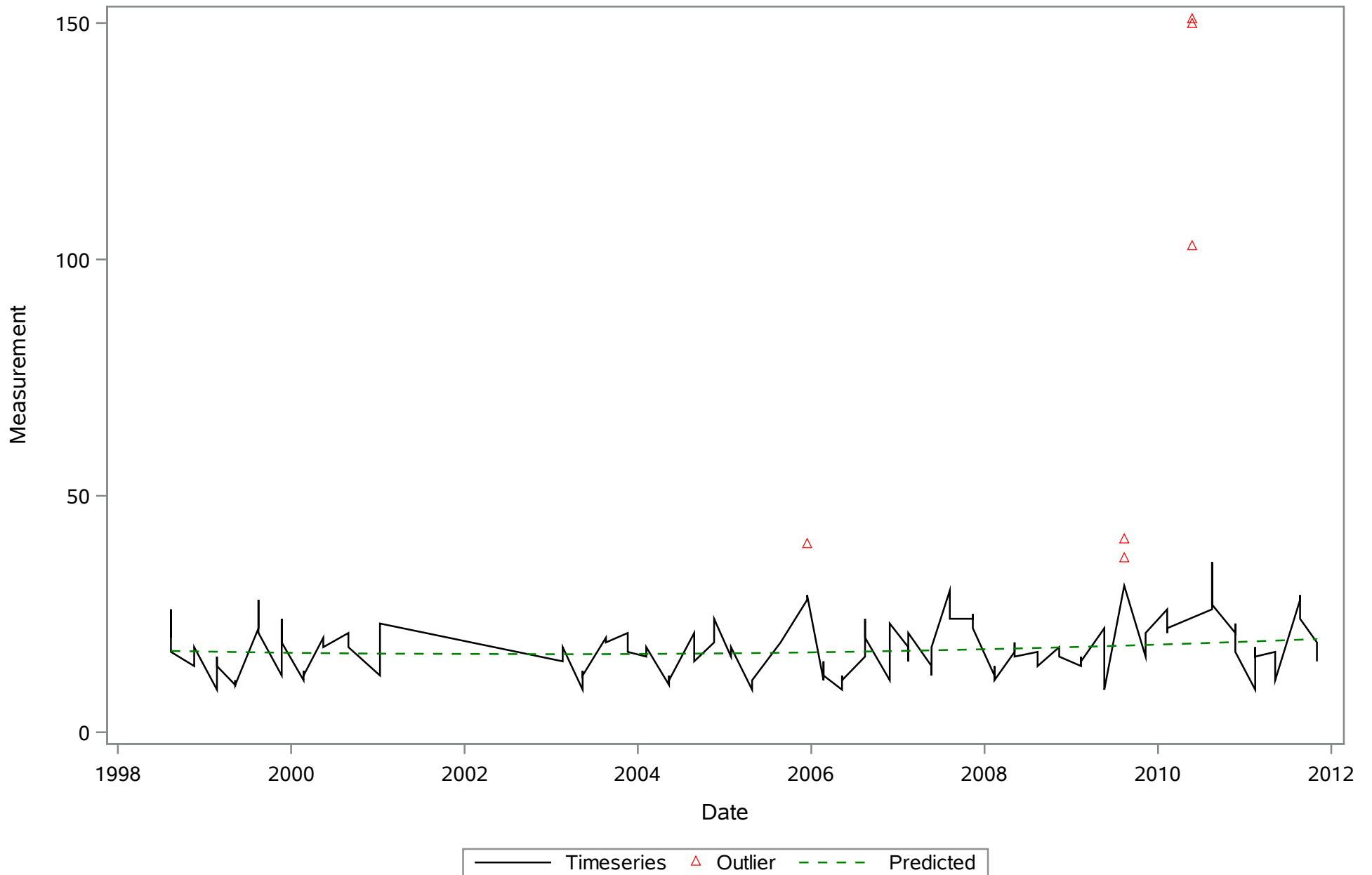
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TEMP_C



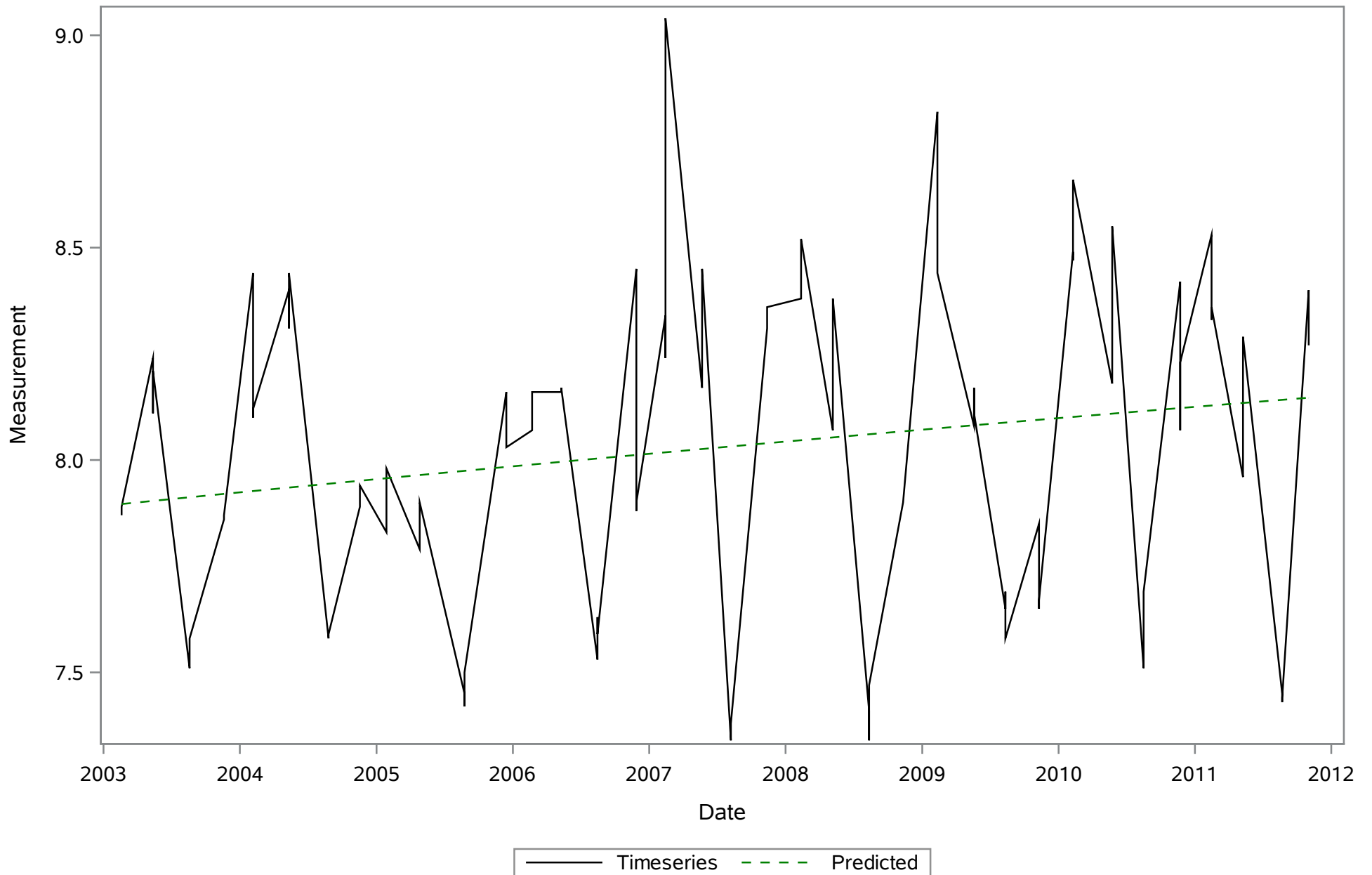
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TN_ugl



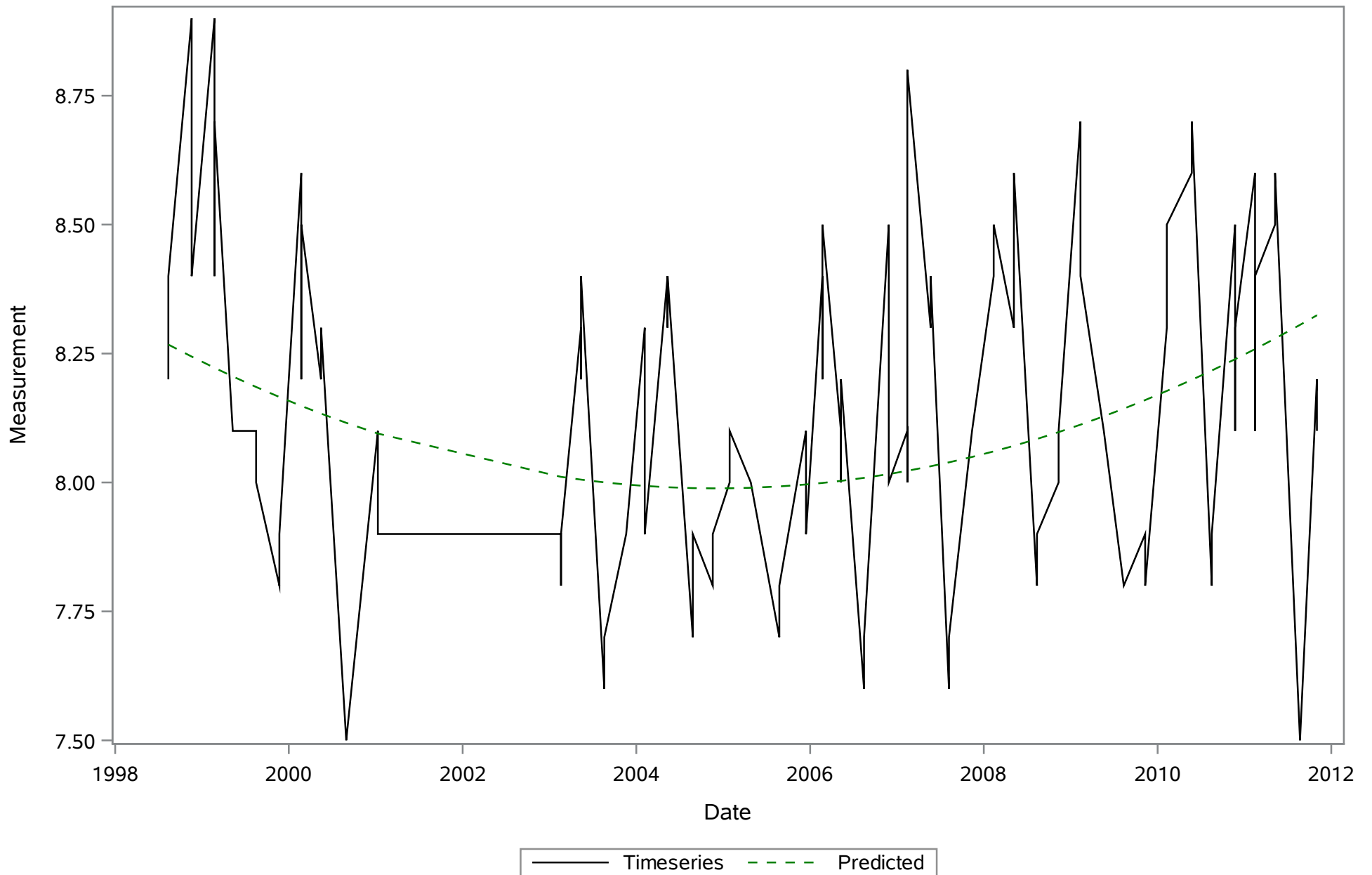
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TP_ugl



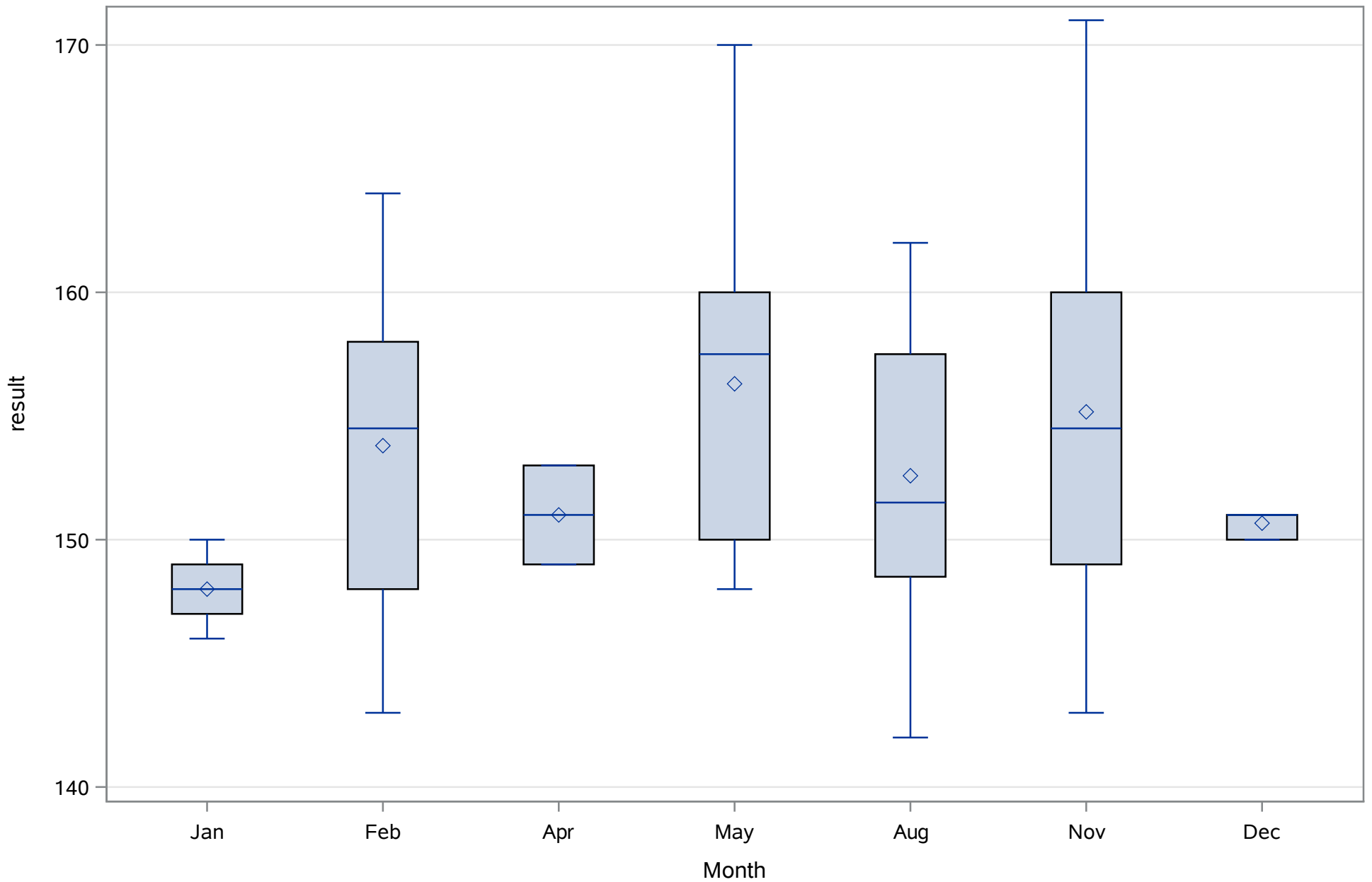
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Field



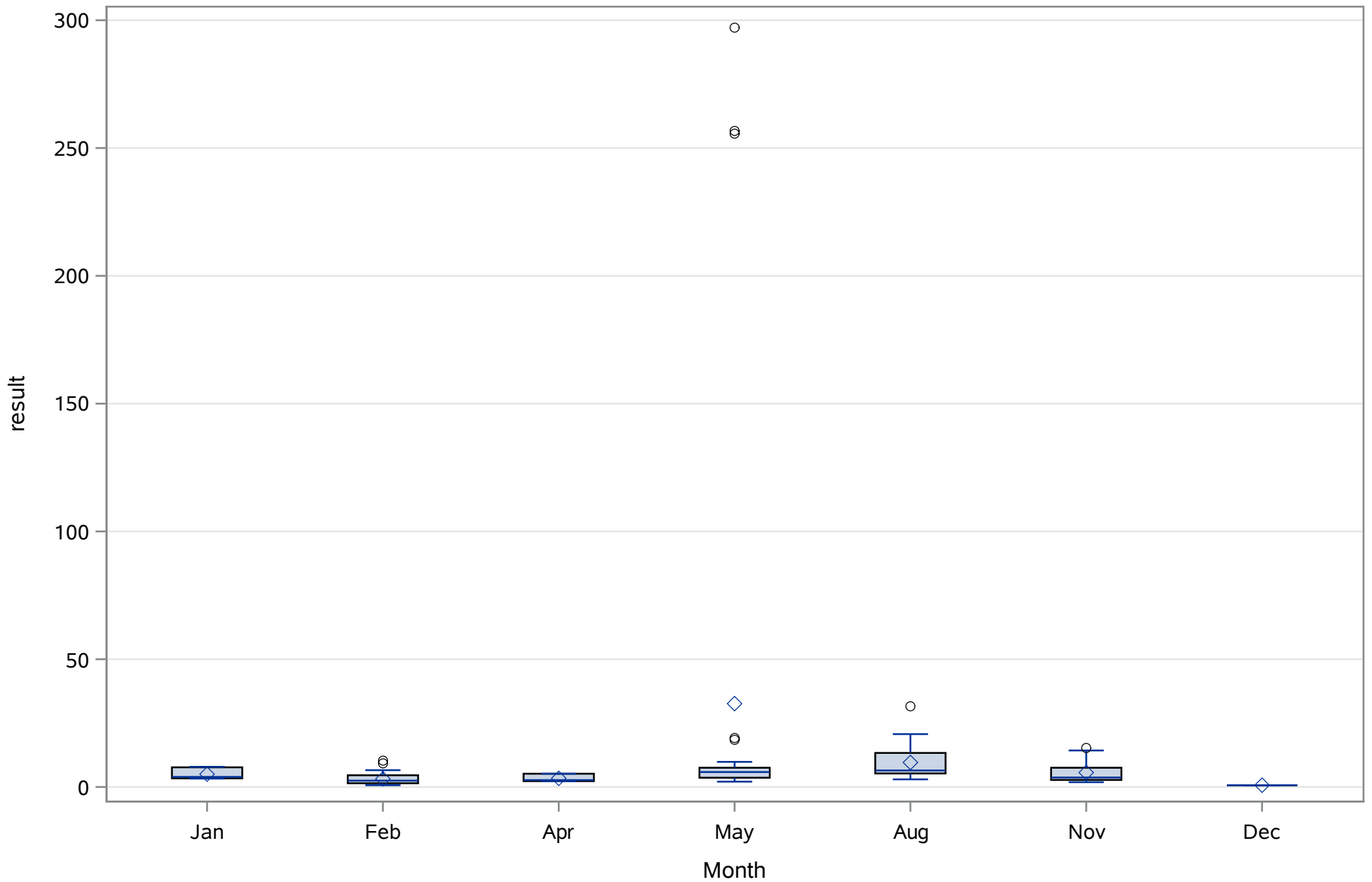
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Lab



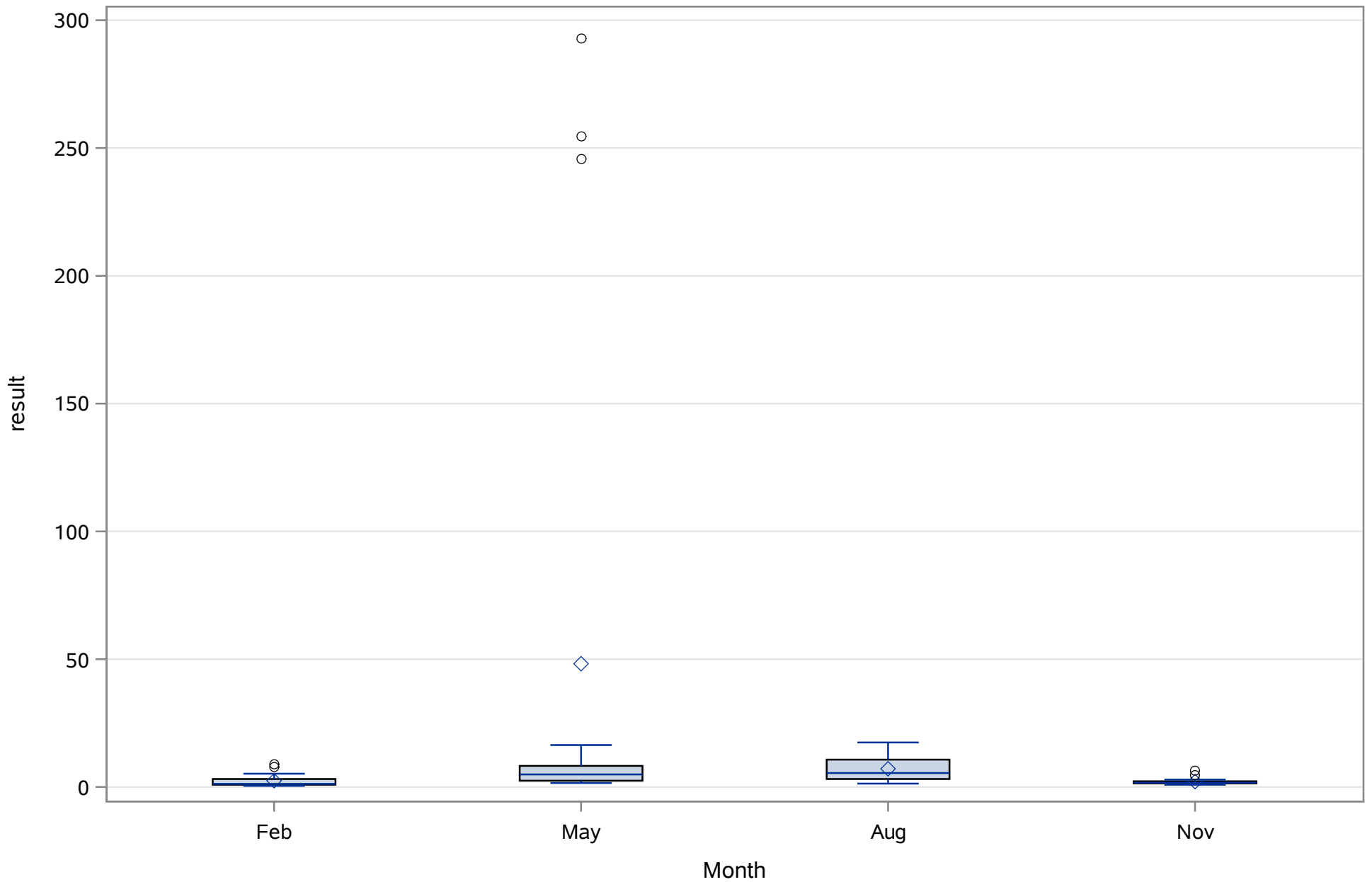
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
ALK_tot_mgL



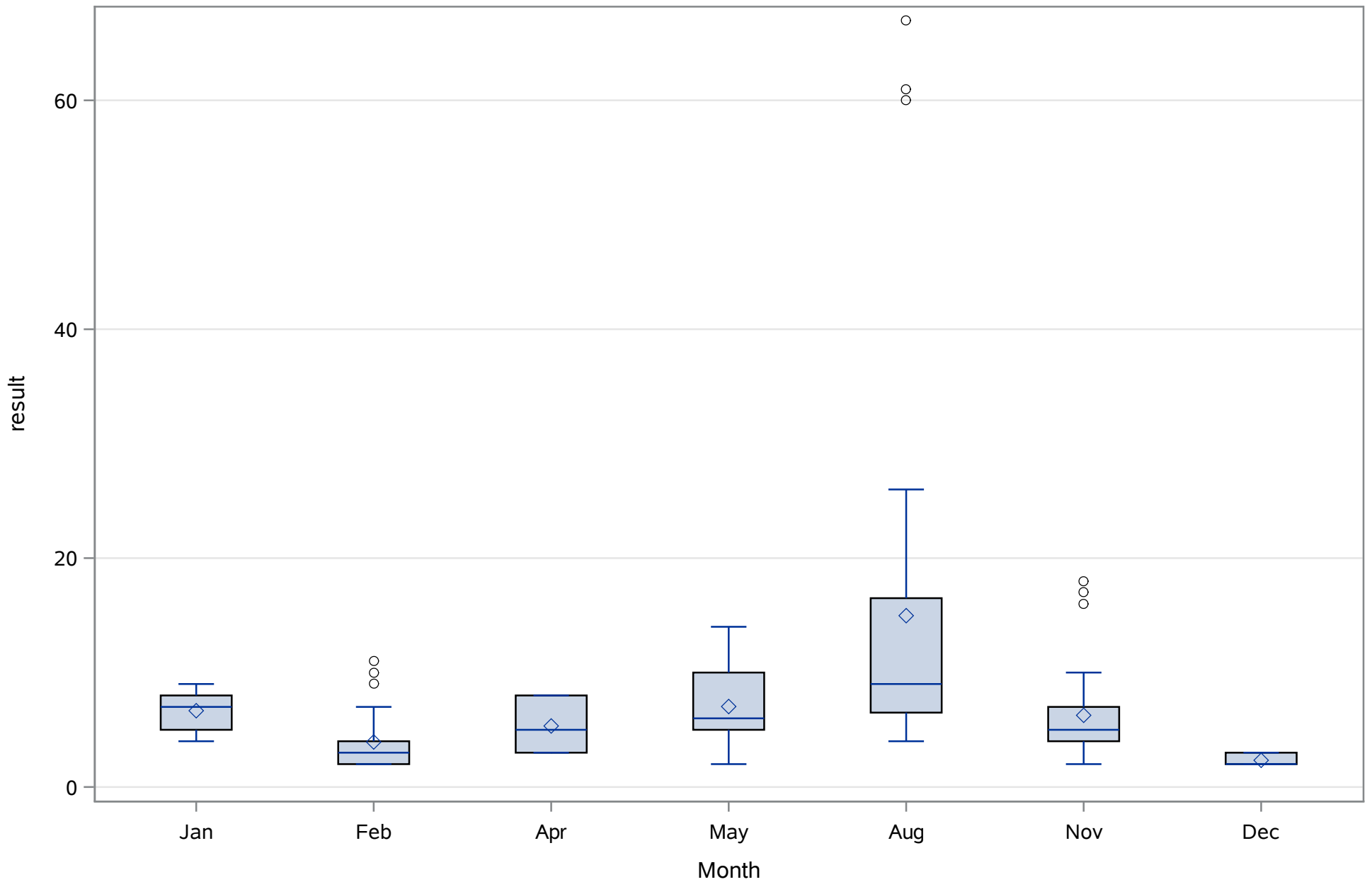
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_Uncor_ugL



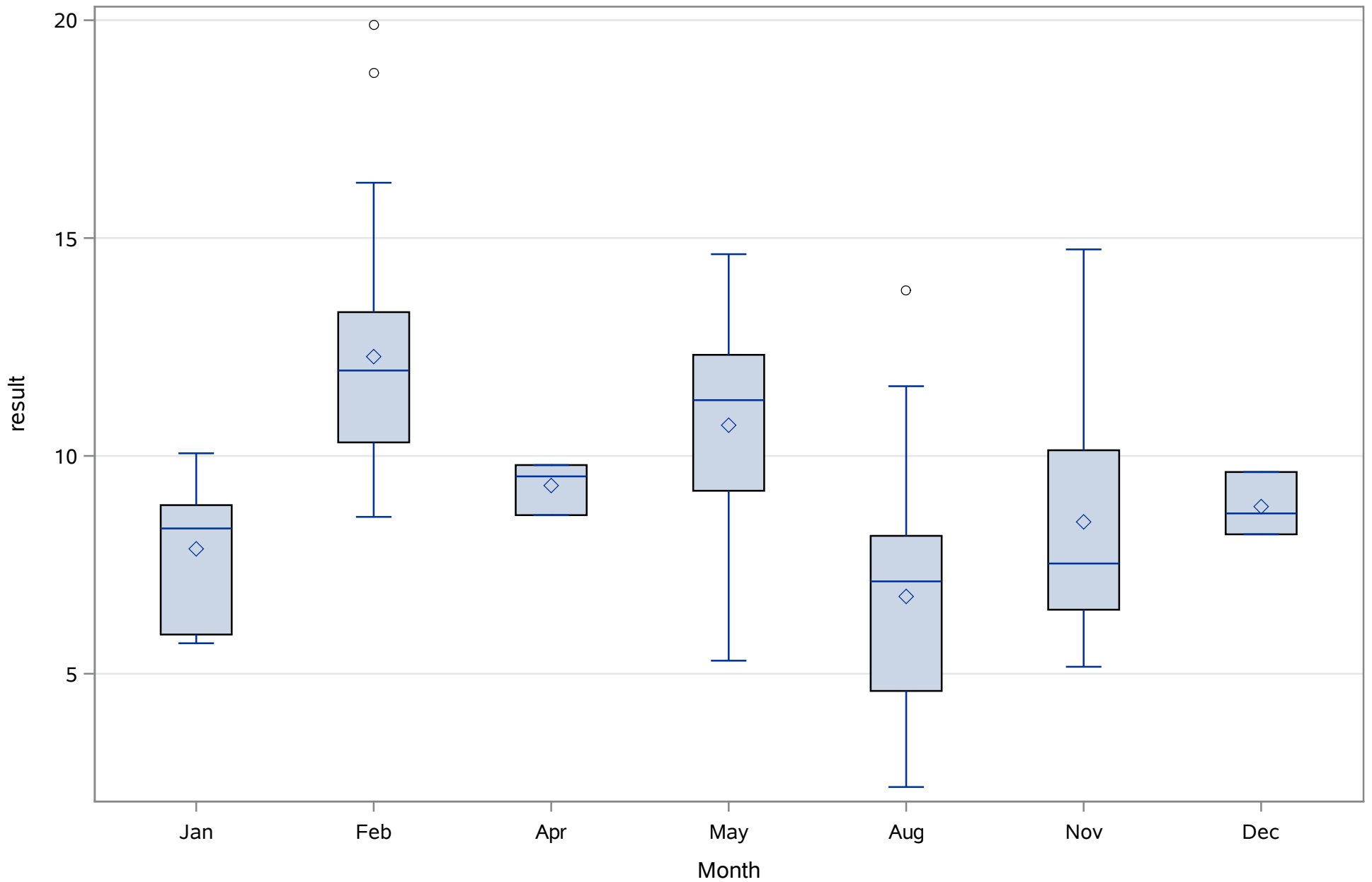
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
CHLA_cor_ugl



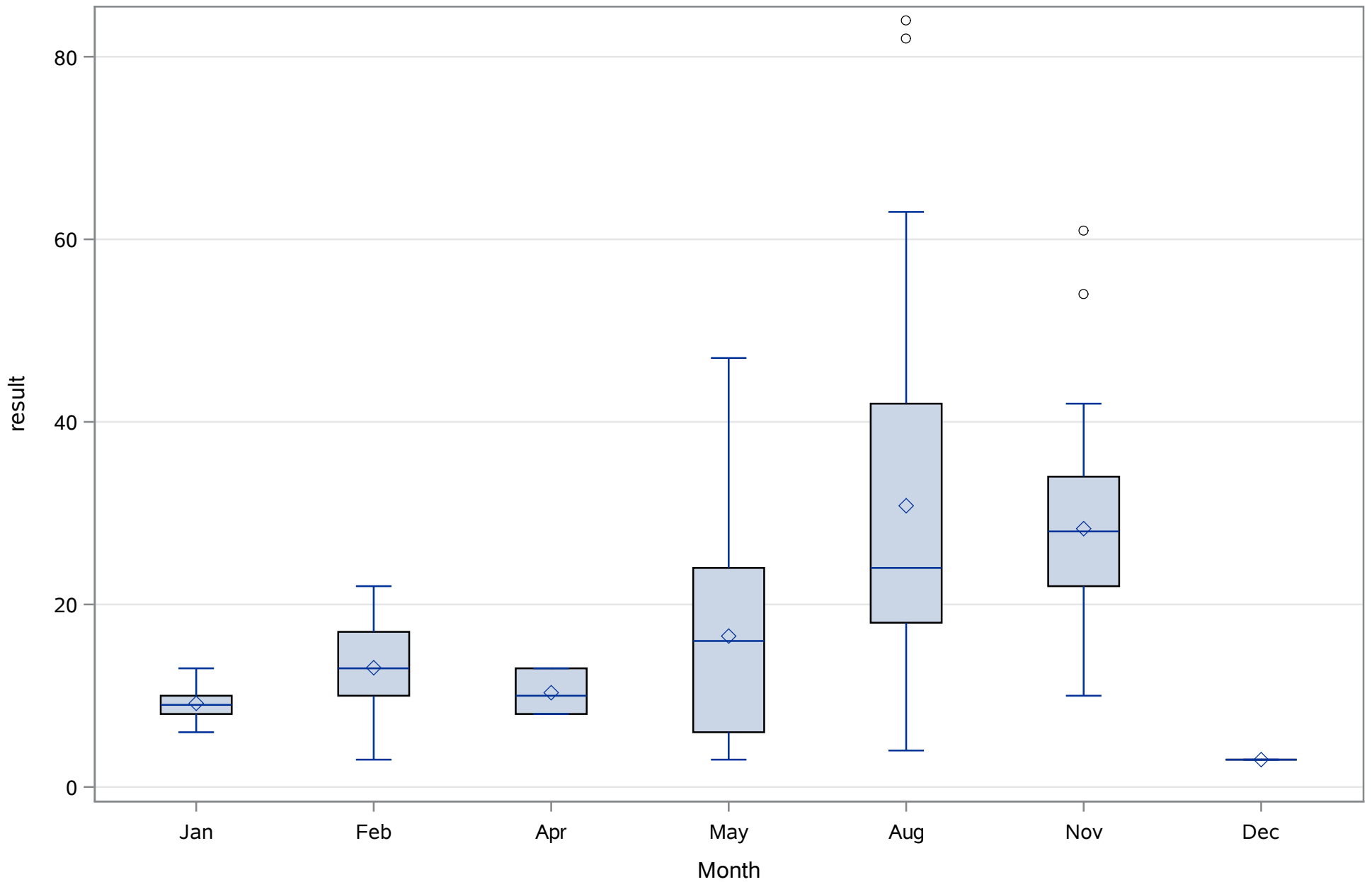
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
COLOR_PtCo



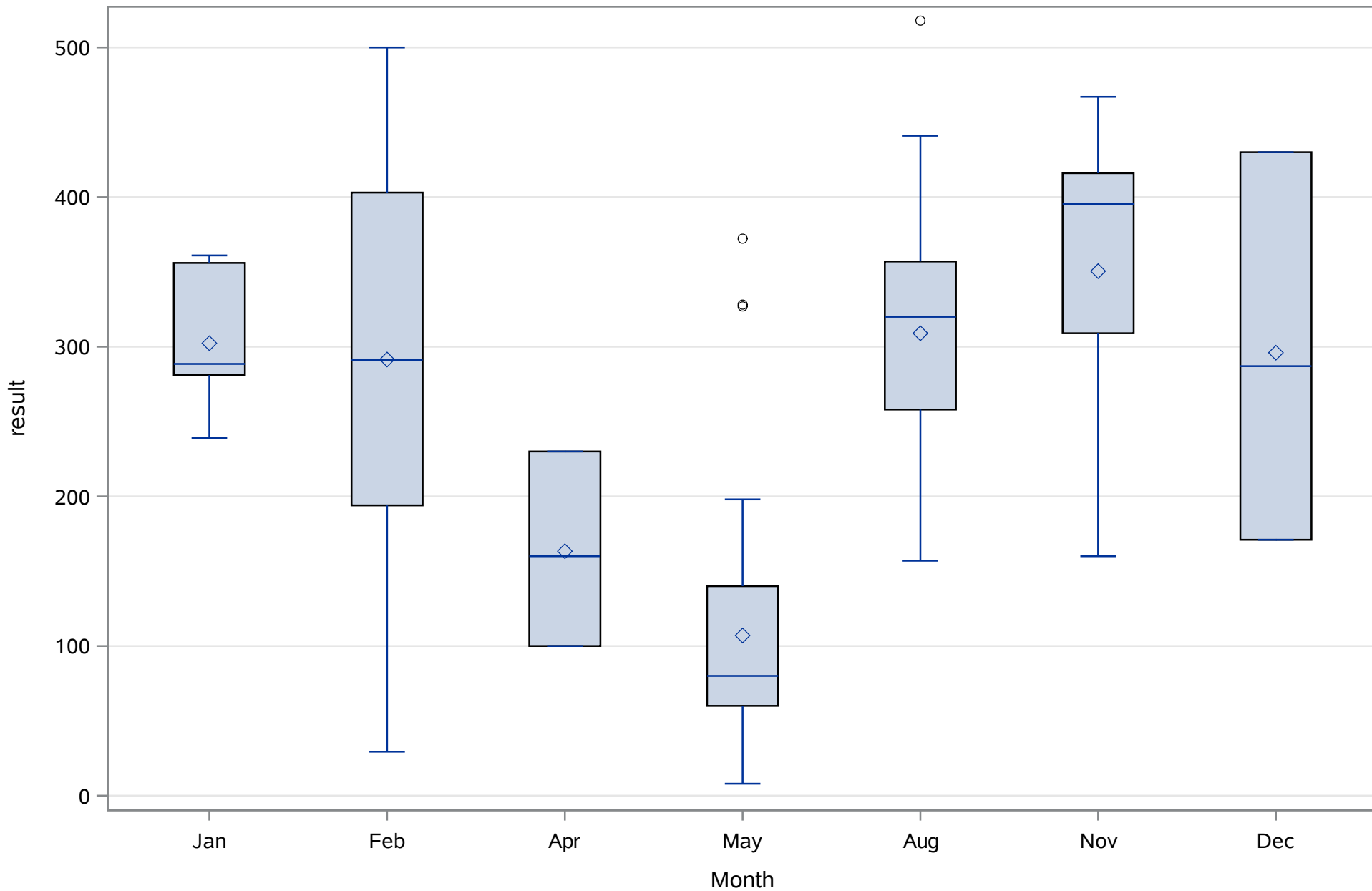
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
DO_mgL



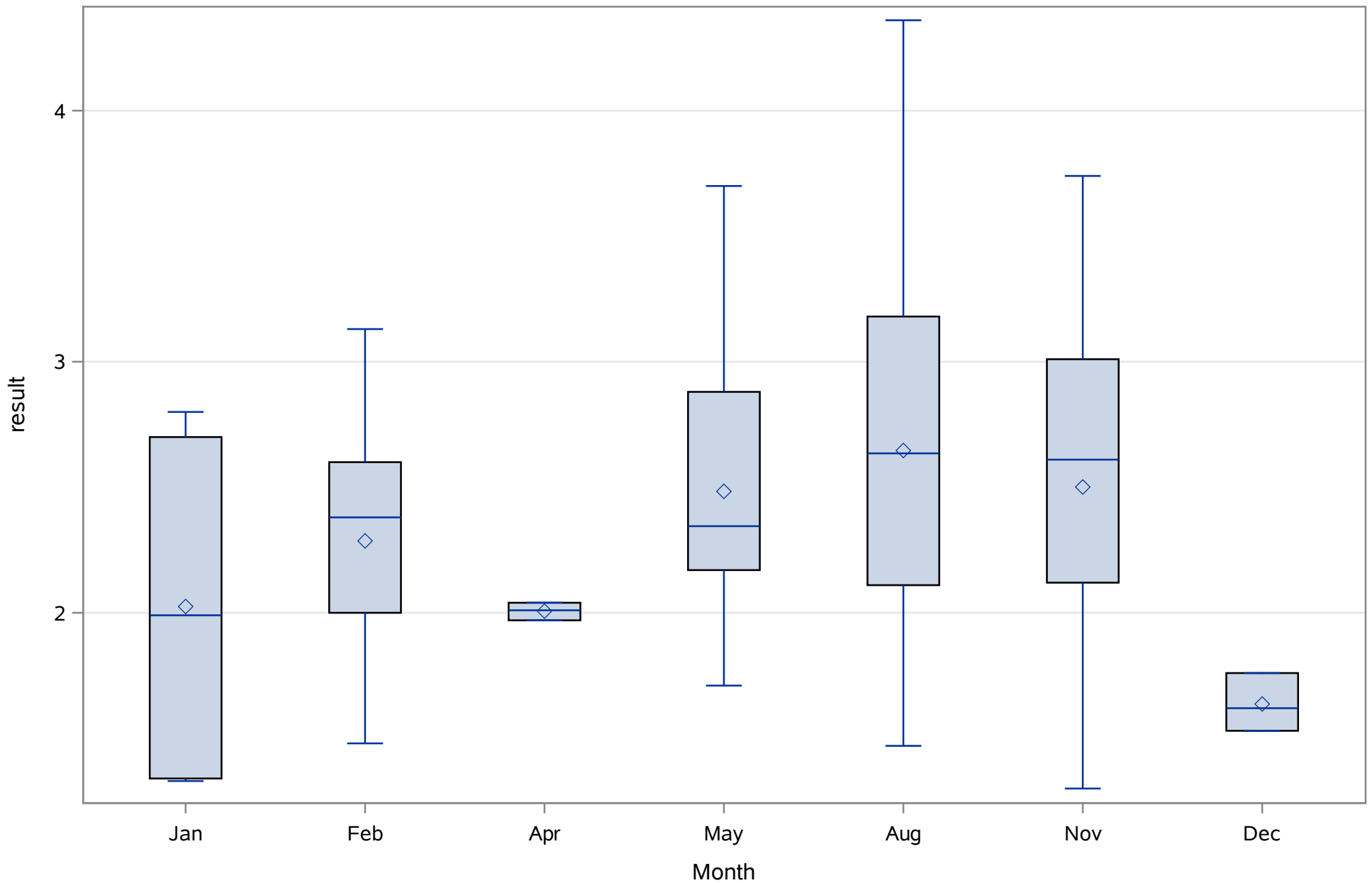
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NH4_ugl



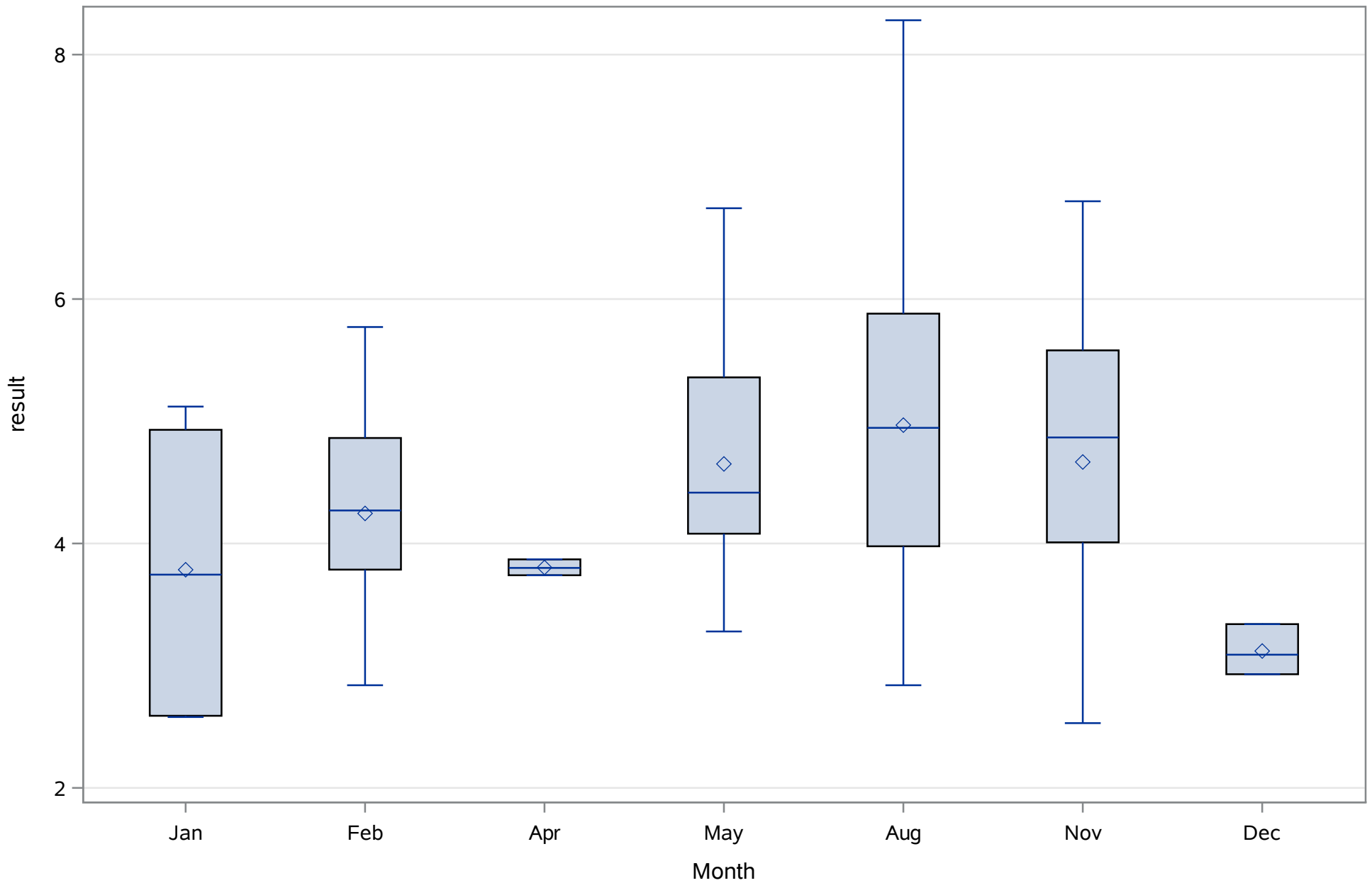
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
NO3_ugL



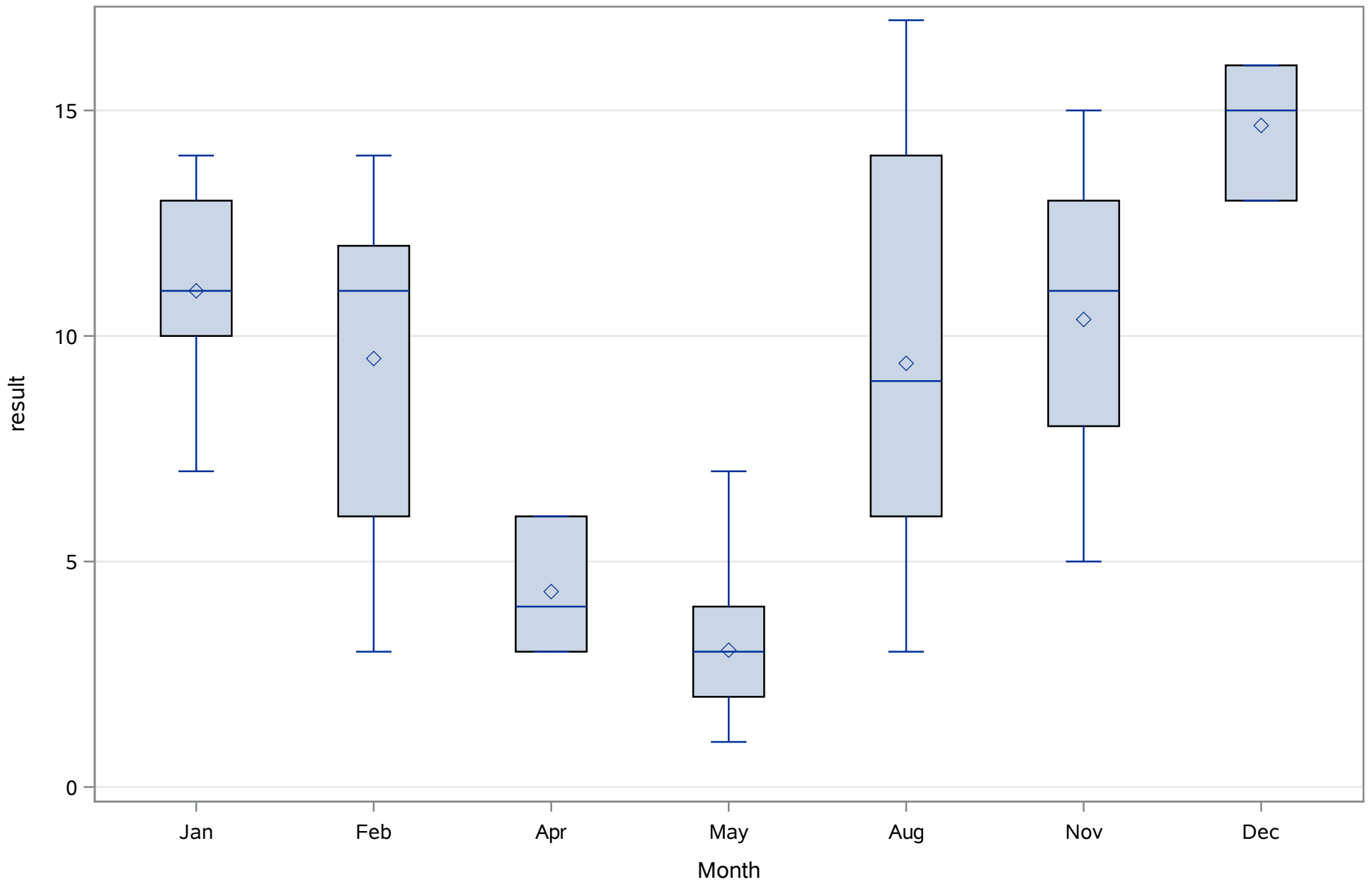
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SAL_Perc



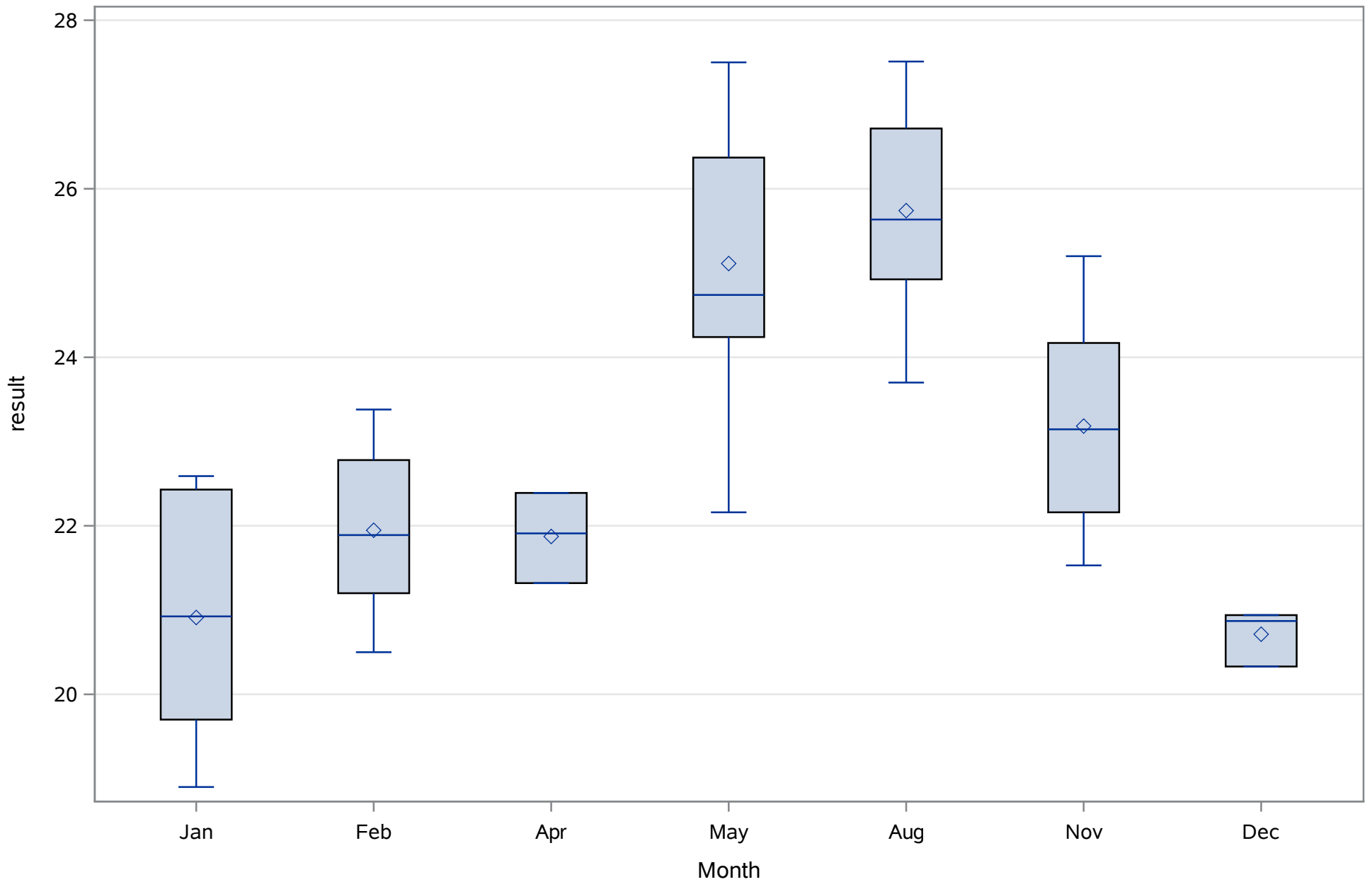
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SPCOND_mS_cm



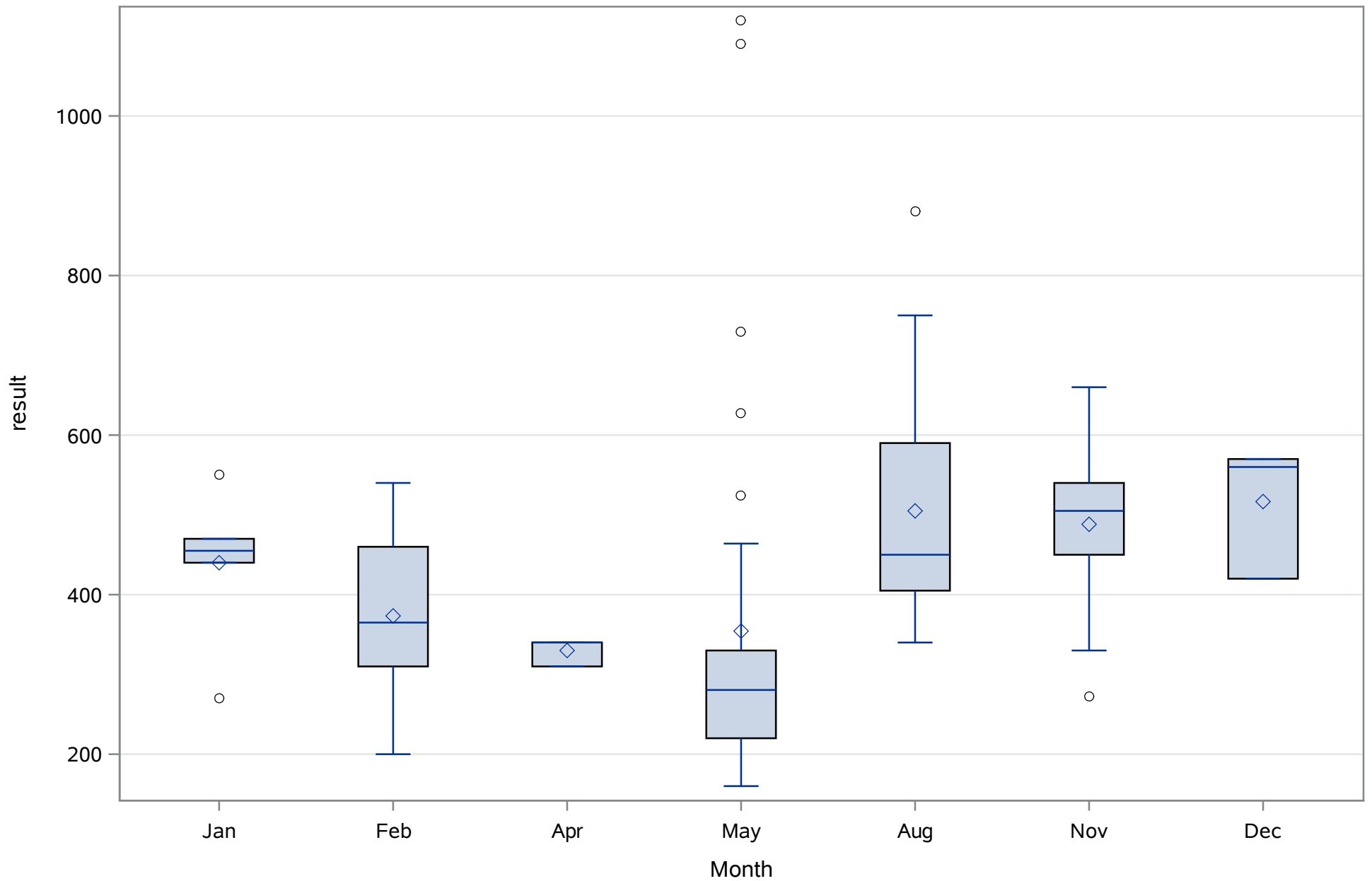
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
SRP_ugL



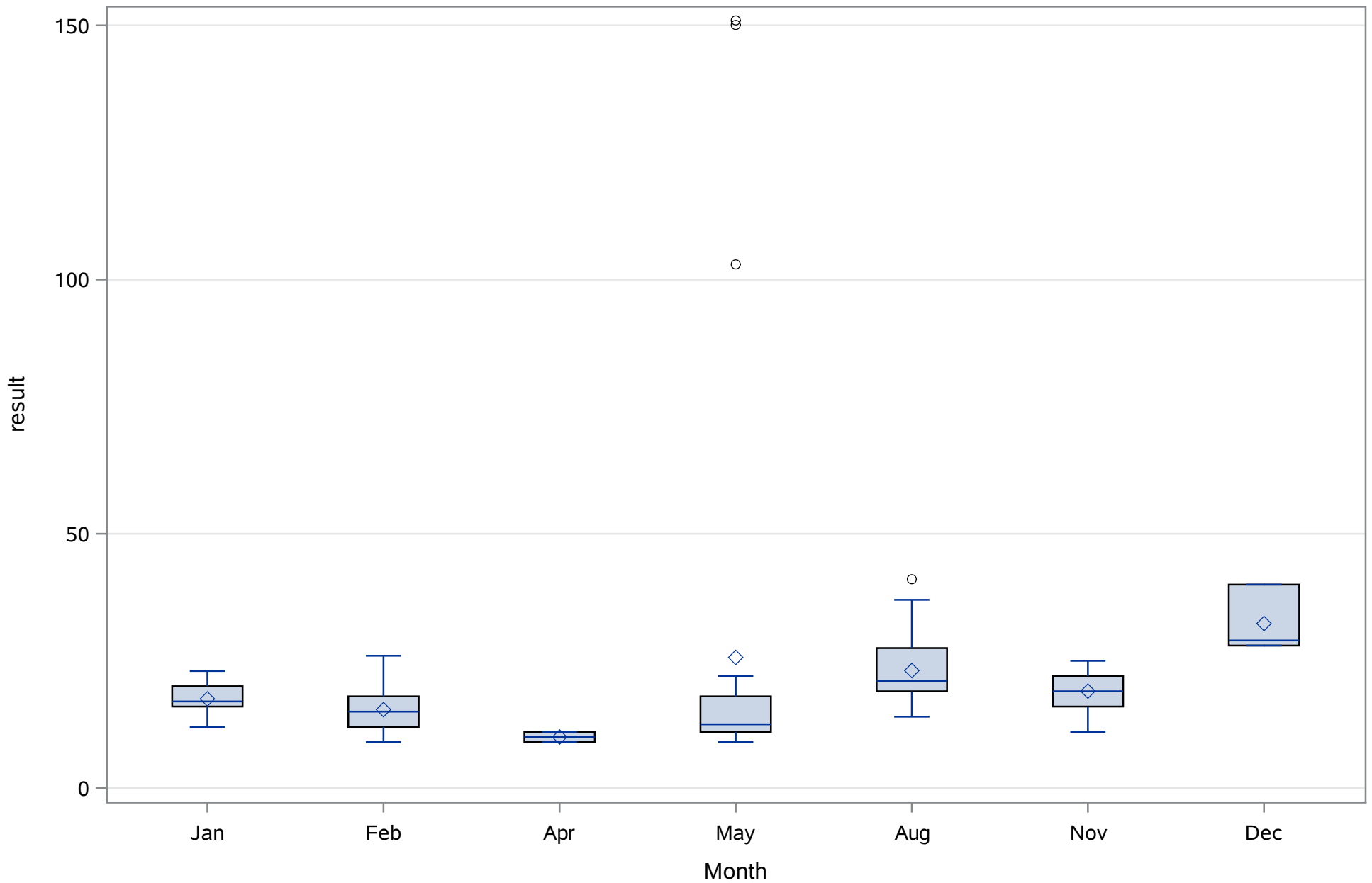
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TEMP_C



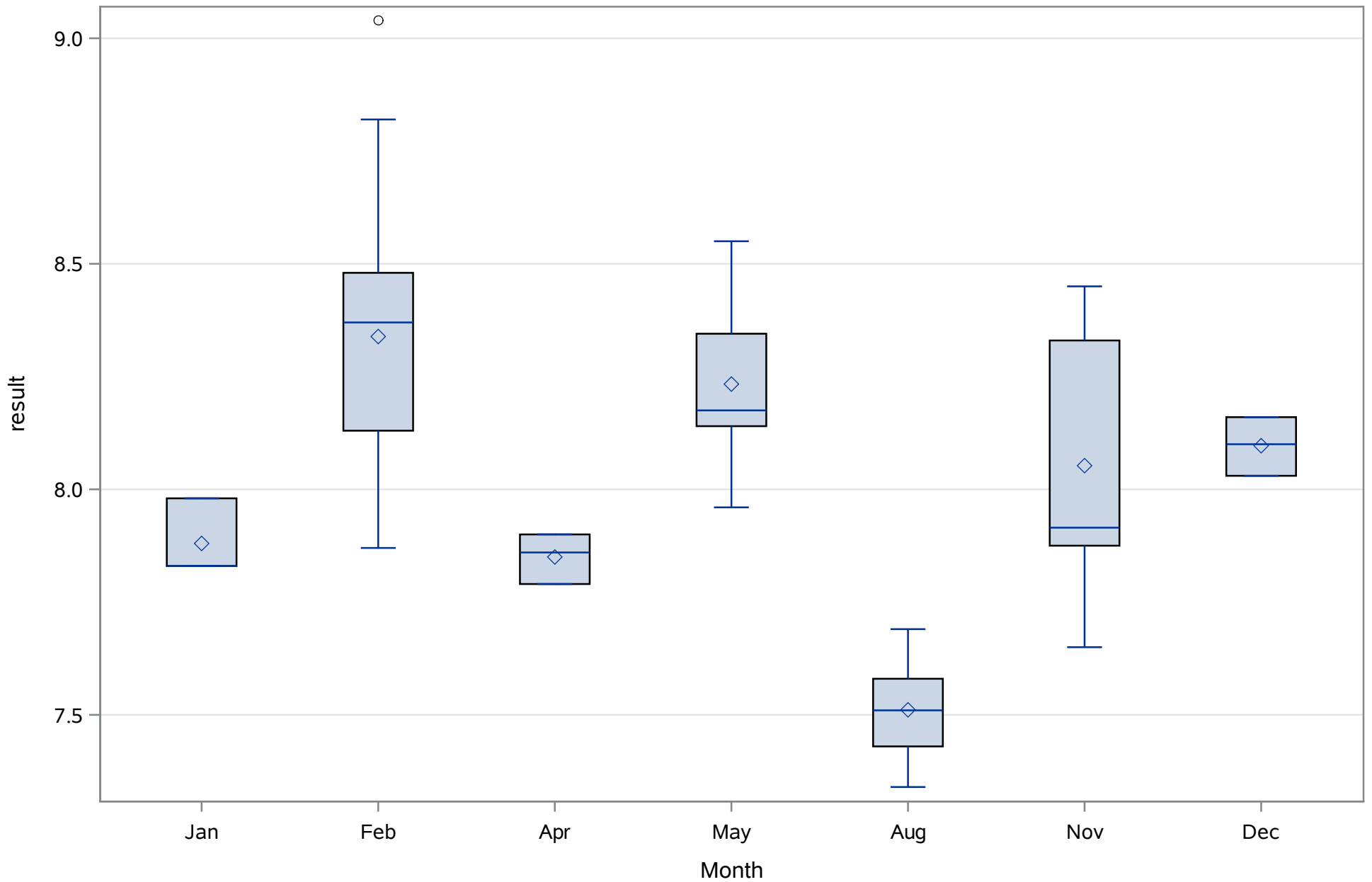
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TN_ugl



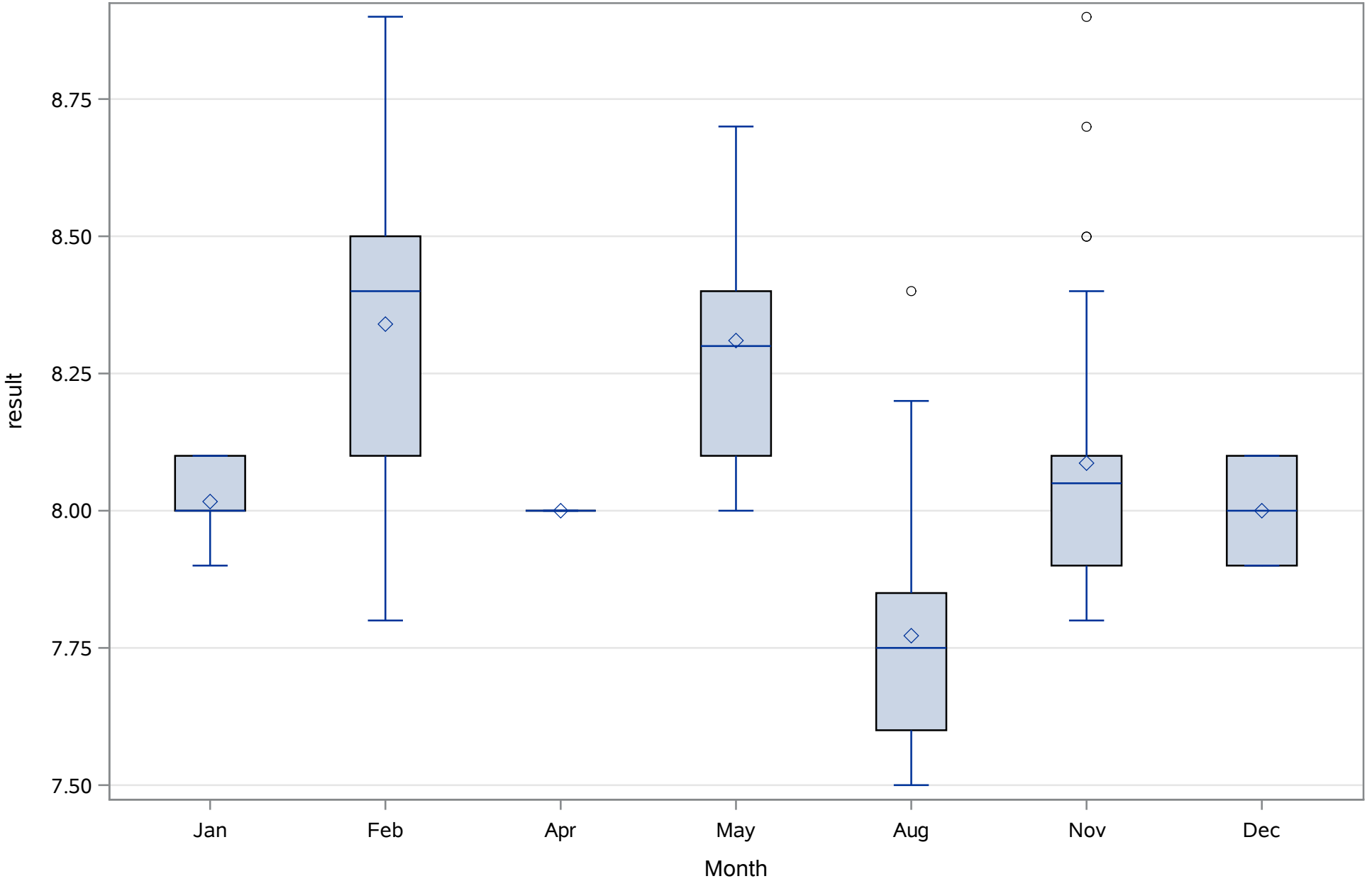
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 6
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	156.333333	Sum Observations	21574
Std Deviation	7.52061239	Variance	56.5596107
Skewness	0.35849148	Kurtosis	0.22486114
Uncorrected SS	3380484	Corrected SS	7748.66667
Coeff Variation	4.81062626	Std Error Mean	0.64019704

Basic Statistical Measures			
Location		Variability	
Mean	156.3333	Std Deviation	7.52061
Median	156.5000	Variance	56.55961
Mode	148.0000	Range	41.00000
		Interquartile Range	10.00000

Note: The mode displayed is the smallest of 2 modes with a count of 10.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	244.1957	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	179.0
99%	177.0
95%	170.0
90%	166.0
75% Q3	161.0
50% Median	156.5
25% Q1	151.0
10%	148.0
5%	144.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

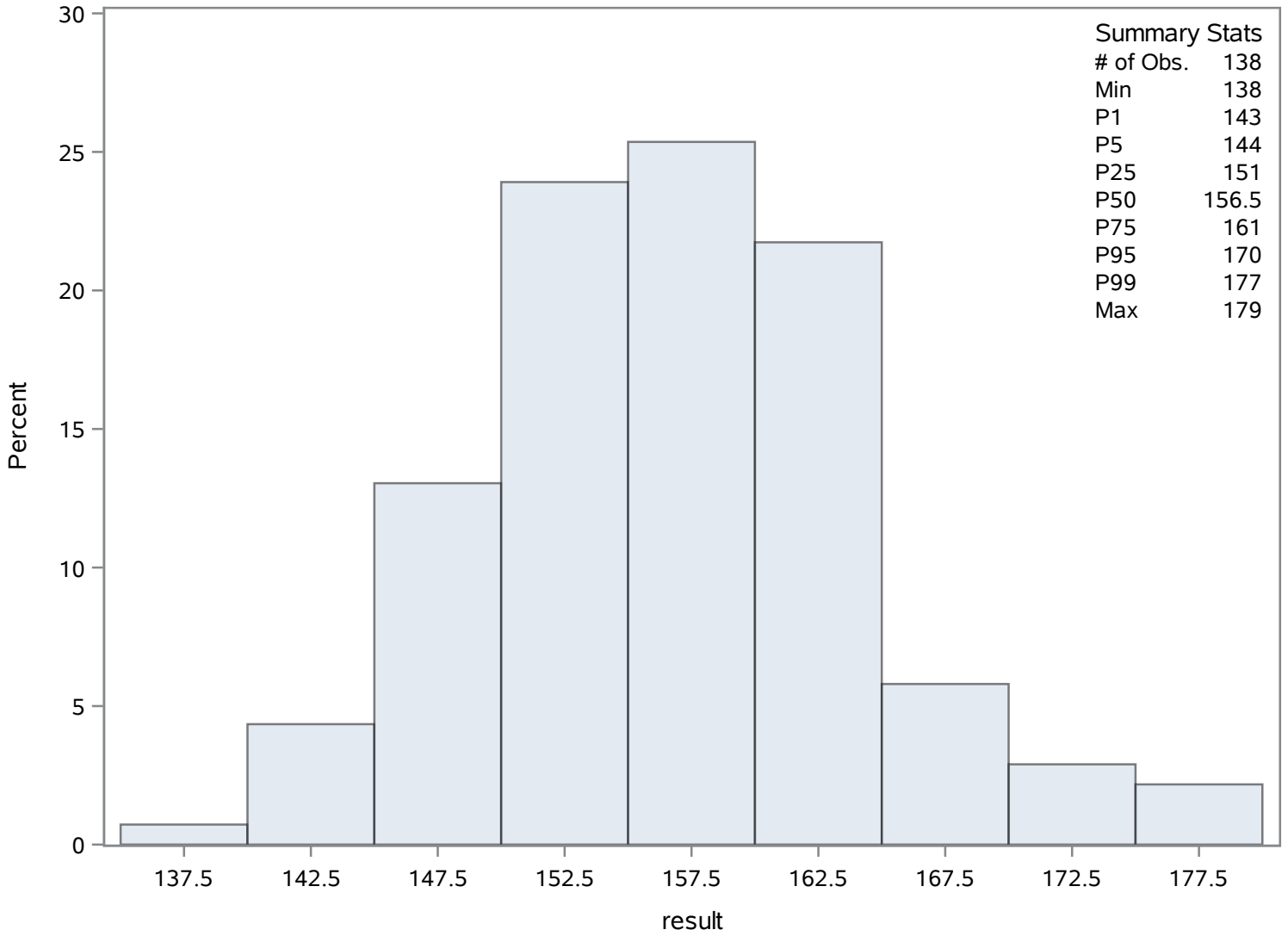
Quantiles (Definition 5)	
Level	Quantile
1%	143.0
0% Min	138.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
138	134	172	120
143	6	173	114
143	5	176	113
143	4	177	121
143	3	179	112

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	9.22538925	Sum Observations	1273.10372
Std Deviation	17.8959349	Variance	320.264486
Skewness	5.22526234	Kurtosis	29.5153825
Uncorrected SS	55621.112	Corrected SS	43876.2346
Coeff Variation	193.985689	Std Error Mean	1.52340315

Basic Statistical Measures			
Location		Variability	
Mean	9.225389	Std Deviation	17.89593
Median	4.505000	Variance	320.26449
Mode	2.200000	Range	125.03000
		Interquartile Range	6.11736

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.055777	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	125.43000
99%	123.10000
95%	26.09000
90%	16.60000
75% Q3	8.83000
50% Median	4.50500
25% Q1	2.71264
10%	2.02000
5%	1.06000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

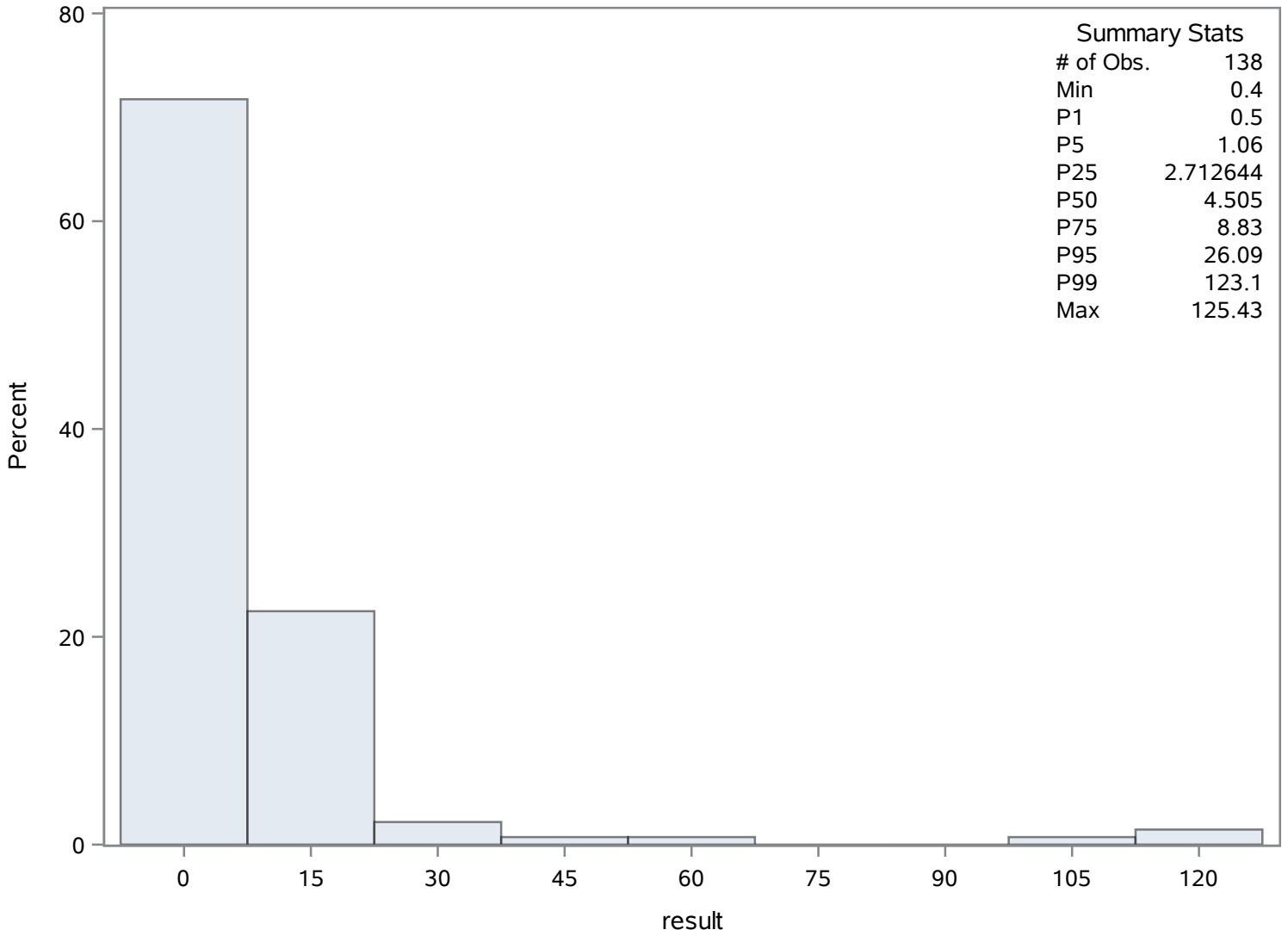
Quantiles (Definition 5)	
Level	Quantile
1%	0.50000
0% Min	0.40000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	202	39.0345	212
0.50	204	57.7000	140
0.60	203	104.0400	256
0.78	253	123.1000	139
0.97	254	125.4300	257

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	7.98285136	Sum Observations	574.765298
Std Deviation	18.698811	Variance	349.645534
Skewness	5.07006041	Kurtosis	27.1717832
Uncorrected SS	29413.0989	Corrected SS	24824.8329
Coeff Variation	234.237244	Std Error Mean	2.20367601

Basic Statistical Measures			
Location		Variability	
Mean	7.982851	Std Deviation	18.69881
Median	2.960686	Variance	349.64553
Mode	1.117240	Range	121.22000
		Interquartile Range	5.04103

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	3.622516	Pr > t 	0.0005
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	121.56000
99%	121.56000
95%	25.98000
90%	12.85000
75% Q3	6.53413
50% Median	2.96069
25% Q1	1.49310
10%	1.11724
5%	0.67000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

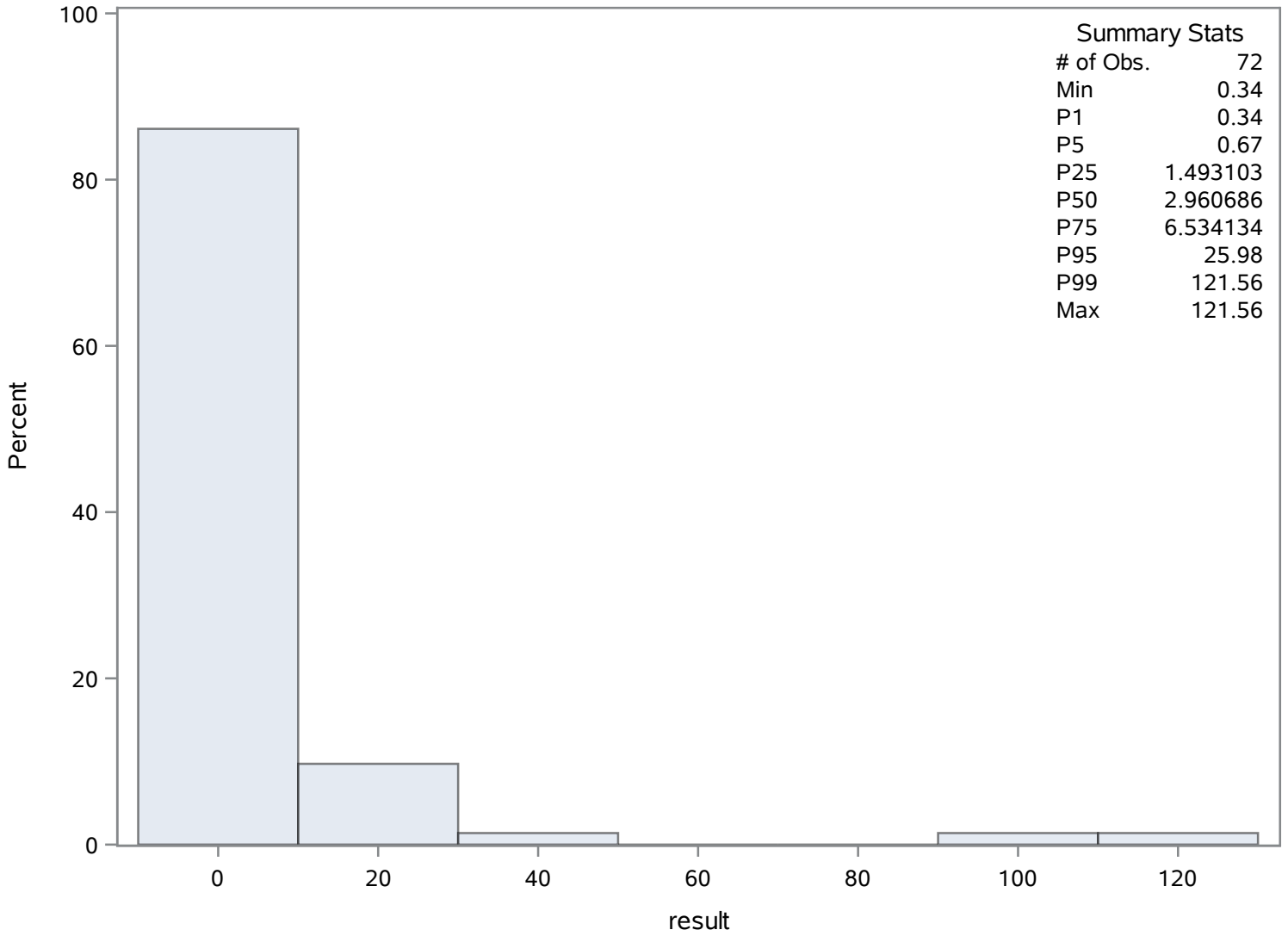
Quantiles (Definition 5)	
Level	Quantile
1%	0.34000
0% Min	0.34000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.34	326	22.7917	294
0.34	325	25.9800	330
0.45	339	36.0869	284
0.67	338	100.8700	328
0.67	337	121.5600	329

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	12.2463768	Sum Observations	1690
Std Deviation	16.0522921	Variance	257.676082
Skewness	4.7621506	Kurtosis	28.1171321
Uncorrected SS	55998	Corrected SS	35301.6232
Coeff Variation	131.077888	Std Error Mean	1.36646185

Basic Statistical Measures			
Location		Variability	
Mean	12.24638	Std Deviation	16.05229
Median	8.00000	Variance	257.67608
Mode	4.00000	Range	130.00000
		Interquartile Range	9.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.962107	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	131
99%	99
95%	38
90%	20
75% Q3	14
50% Median	8
25% Q1	5
10%	3
5%	3
1%	2
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
COLOR_PtCo

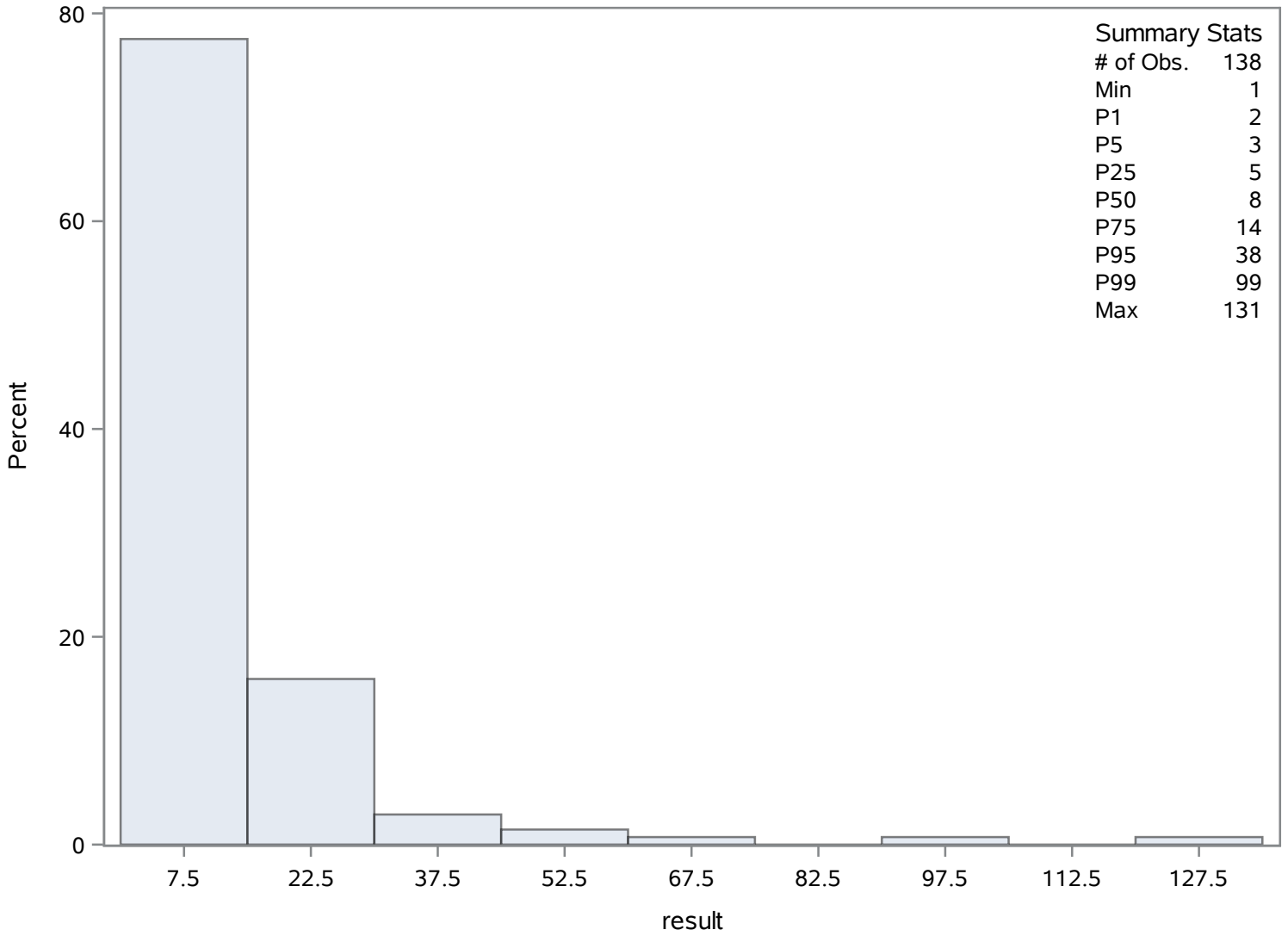
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	452	51	433
2	477	55	469
2	476	66	483
2	475	99	481
2	440	131	482

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8.5542029	Sum Observations	1180.48
Std Deviation	3.24635895	Variance	10.5388464
Skewness	0.21750013	Kurtosis	-0.502657
Uncorrected SS	11541.8874	Corrected SS	1443.82196
Coeff Variation	37.9504553	Std Error Mean	0.27634843

Basic Statistical Measures			
Location		Variability	
Mean	8.554203	Std Deviation	3.24636
Median	8.230000	Variance	10.53885
Mode	2.300000	Range	15.05000
		Interquartile Range	4.38000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	30.95441	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	17.05
99%	14.90
95%	14.30
90%	13.40
75% Q3	10.81
50% Median	8.23
25% Q1	6.43
10%	4.55
5%	2.76

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
DO_mgL

The UNIVARIATE Procedure
Variable: result

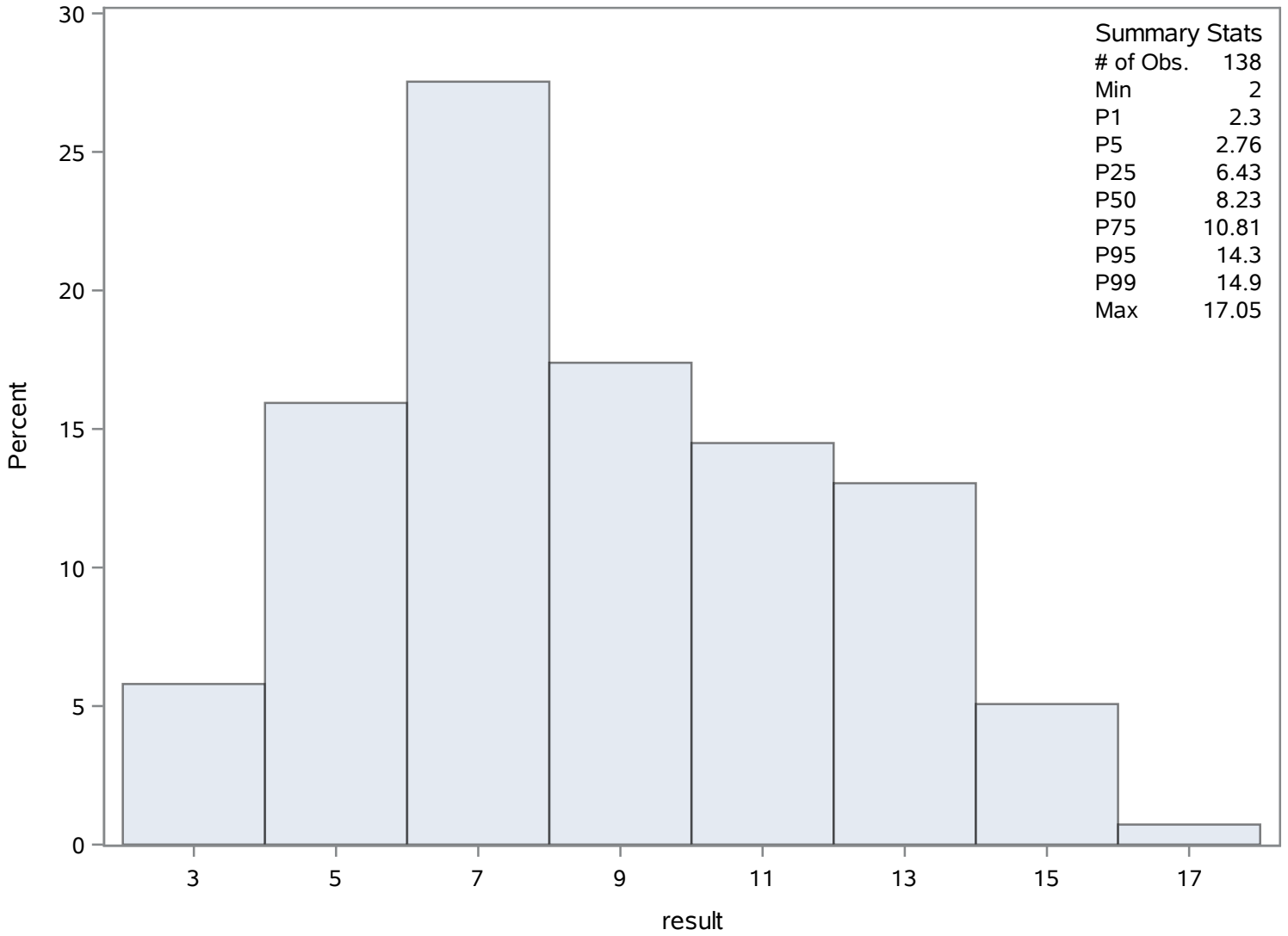
Quantiles (Definition 5)	
Level	Quantile
1%	2.30
0% Min	2.00

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.0	497	14.71	578
2.3	513	14.76	617
2.3	512	14.86	555
2.3	496	14.90	494
2.4	511	17.05	577

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	26.429927	Sum Observations	3620.9
Std Deviation	18.3210798	Variance	335.661965
Skewness	1.4442638	Kurtosis	3.09042409
Uncorrected SS	141350.15	Corrected SS	45650.0273
Coeff Variation	69.3194491	Std Error Mean	1.56527548

Basic Statistical Measures			
Location		Variability	
Mean	26.42993	Std Deviation	18.32108
Median	23.00000	Variance	335.66197
Mode	30.00000	Range	97.00000
		Interquartile Range	22.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.88516	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	98
99%	98
95%	60
90%	45
75% Q3	35
50% Median	23
25% Q1	13
10%	7
5%	3
1%	3
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NH4_ugl

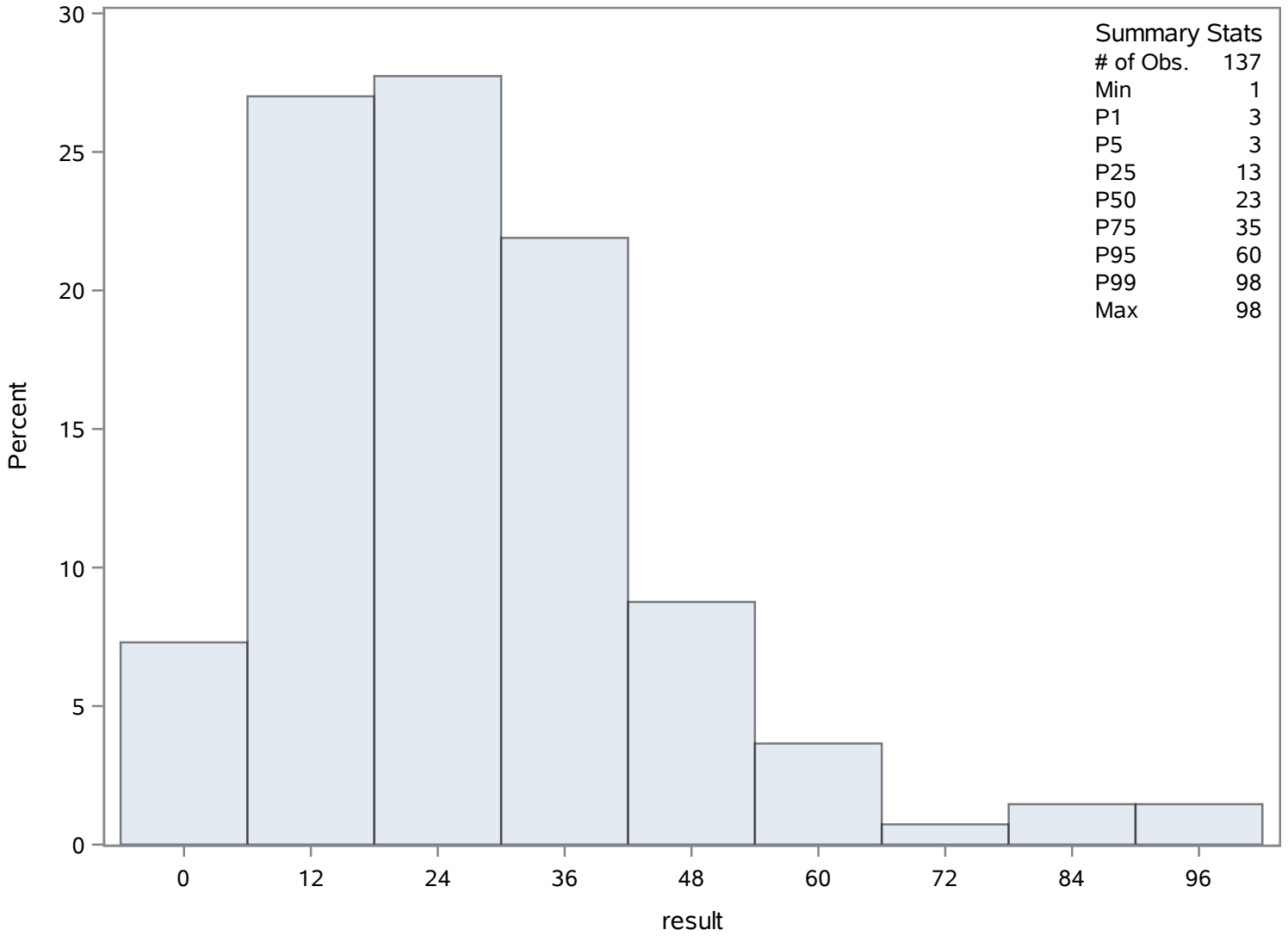
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	631	67	697
3	688	82	743
3	687	86	756
3	667	98	755
3	652	98	759

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	225.985401	Sum Observations	30960
Std Deviation	126.805536	Variance	16079.6441
Skewness	0.10724019	Kurtosis	-0.9546544
Uncorrected SS	9183339.62	Corrected SS	2186831.59
Coeff Variation	56.112269	Std Error Mean	10.8337281

Basic Statistical Measures			
Location		Variability	
Mean	225.9854	Std Deviation	126.80554
Median	224.0000	Variance	16080
Mode	300.0000	Range	475.00000
		Interquartile Range	192.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.85943	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	481
99%	468
95%	441
90%	410
75% Q3	312
50% Median	224
25% Q1	120
10%	57
5%	20
1%	10
0% Min	6

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NO3_ugL

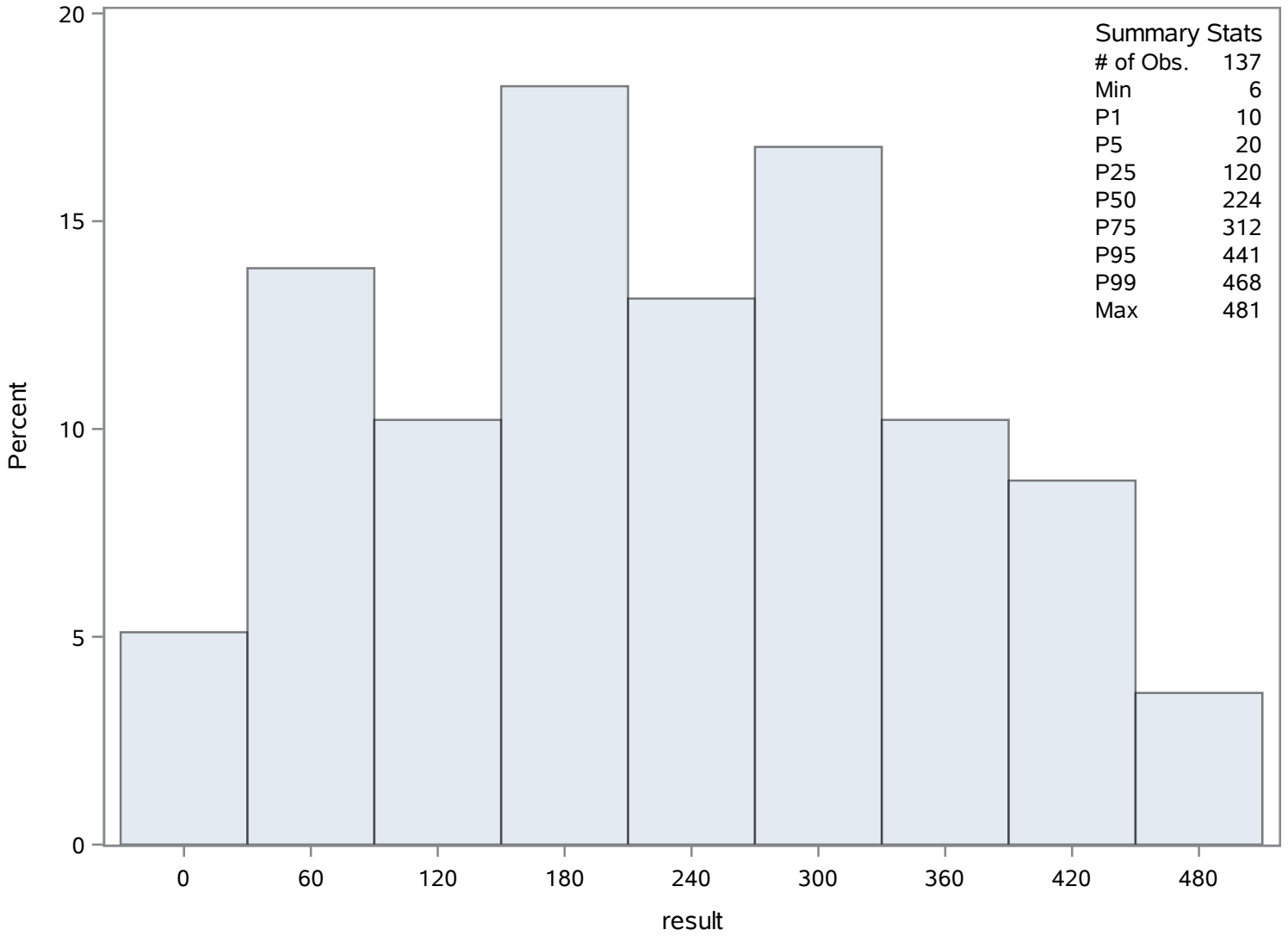
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6	878	456	871
10	880	463	898
11	879	467	864
15	783	468	888
18	785	481	865

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	2.89246377	Sum Observations	399.16
Std Deviation	1.16498477	Variance	1.35718951
Skewness	2.41395017	Kurtosis	7.9879274
Uncorrected SS	1340.4908	Corrected SS	185.934962
Coeff Variation	40.2765552	Std Error Mean	0.09917009

Basic Statistical Measures			
Location		Variability	
Mean	2.892464	Std Deviation	1.16498
Median	2.680000	Variance	1.35719
Mode	2.100000	Range	7.61000
		Interquartile Range	0.96000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.1667	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.94
99%	7.33
95%	5.52
90%	3.90
75% Q3	3.19
50% Median	2.68
25% Q1	2.23
10%	1.69
5%	1.60
1%	1.35
0% Min	1.33

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SAL_Perc

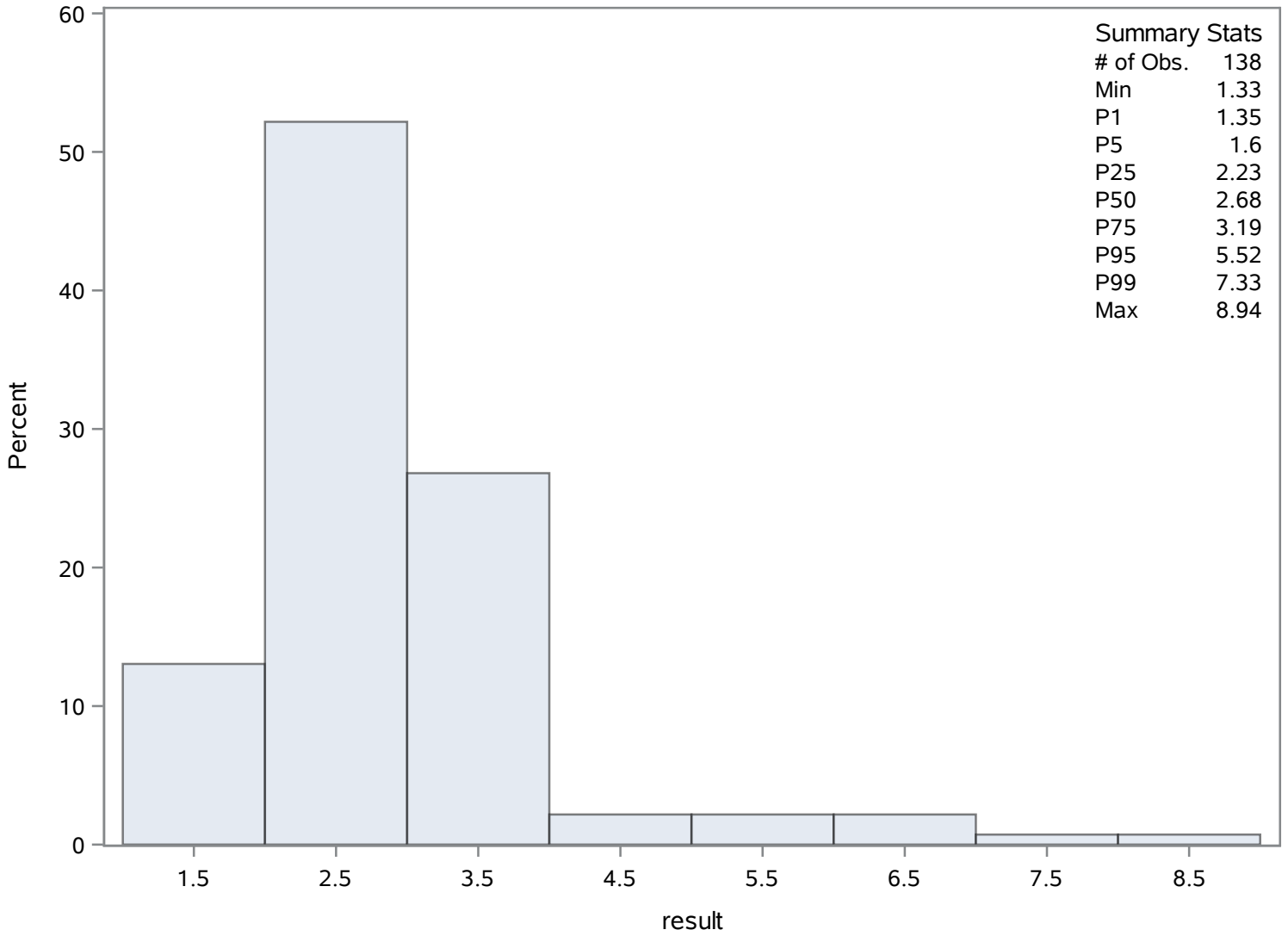
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.33	952	6.64	940
1.35	955	6.88	938
1.49	937	6.93	939
1.57	943	7.33	1010
1.57	942	8.94	981

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	5.34876812	Sum Observations	738.13
Std Deviation	1.99581474	Variance	3.98327649
Skewness	2.14872517	Kurtosis	6.15400939
Uncorrected SS	4493.79509	Corrected SS	545.708879
Coeff Variation	37.3135402	Std Error Mean	0.16989503

Basic Statistical Measures			
Location		Variability	
Mean	5.348768	Std Deviation	1.99581
Median	4.980000	Variance	3.98328
Mode	3.940000	Range	12.29000
		Interquartile Range	1.67000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	31.48278	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.860
99%	12.680
95%	10.240
90%	7.160
75% Q3	5.870
50% Median	4.980
25% Q1	4.200
10%	3.215
5%	3.086
1%	2.610
0% Min	2.570

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SPCOND_mS_cm

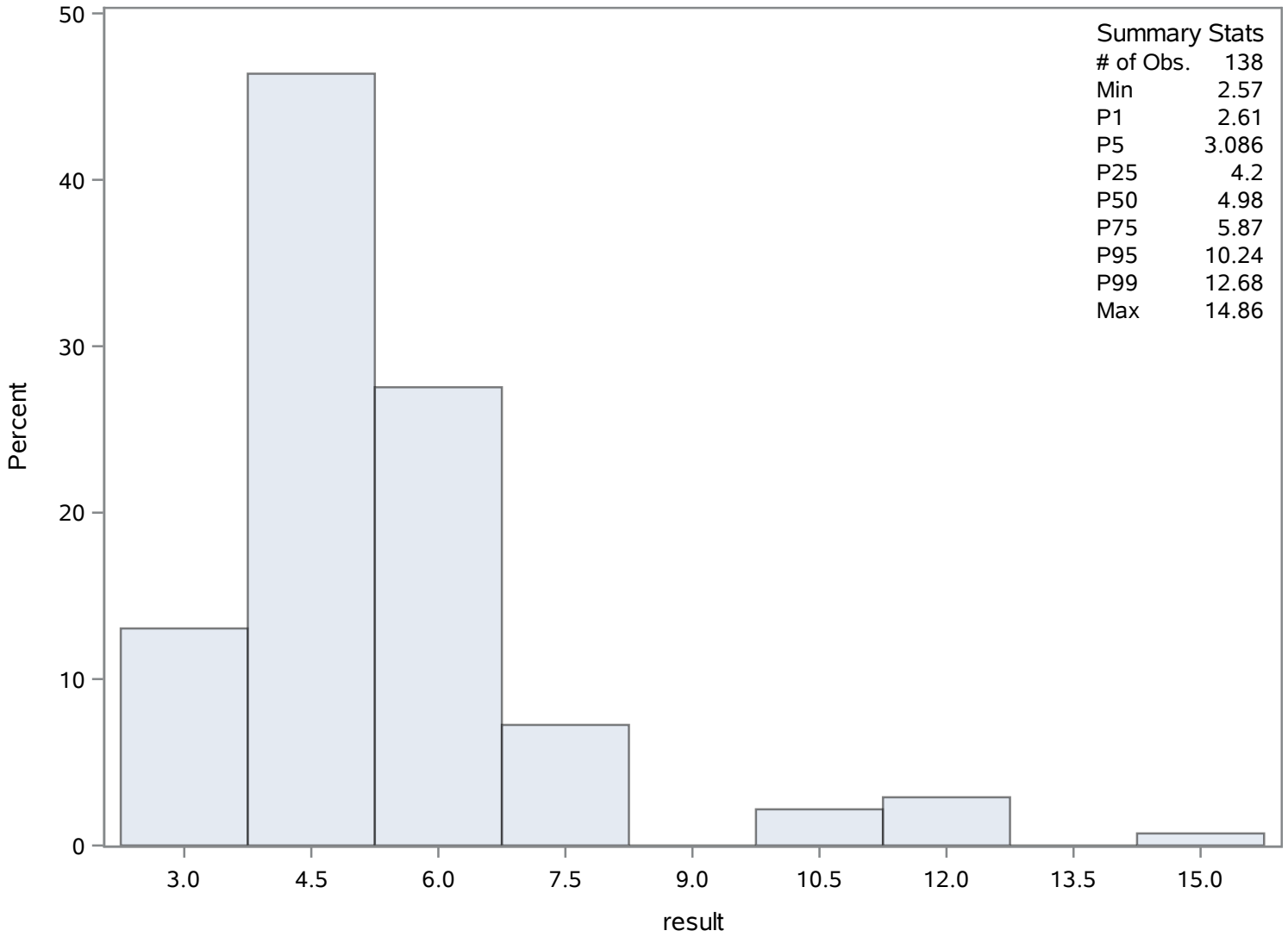
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.57	1090	11.51	1078
2.61	1093	11.98	1076
2.88	1075	12.09	1077
3.01	1080	12.68	1148
3.02	1081	14.86	1119

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	7.87407407	Sum Observations	1063
Std Deviation	5.46280452	Variance	29.8422333
Skewness	1.97524485	Kurtosis	7.33411972
Uncorrected SS	12369	Corrected SS	3998.85926
Coeff Variation	69.3771036	Std Error Mean	0.47016335

Basic Statistical Measures			
Location		Variability	
Mean	7.874074	Std Deviation	5.46280
Median	7.000000	Variance	29.84223
Mode	3.000000	Range	37.00000
		Interquartile Range	6.00000

Note: The mode displayed is the smallest of 2 modes with a count of 13.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.74753	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	38
99%	27
95%	16
90%	14
75% Q3	10
50% Median	7
25% Q1	4
10%	2
5%	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SRP_ugL

The UNIVARIATE Procedure
Variable: result

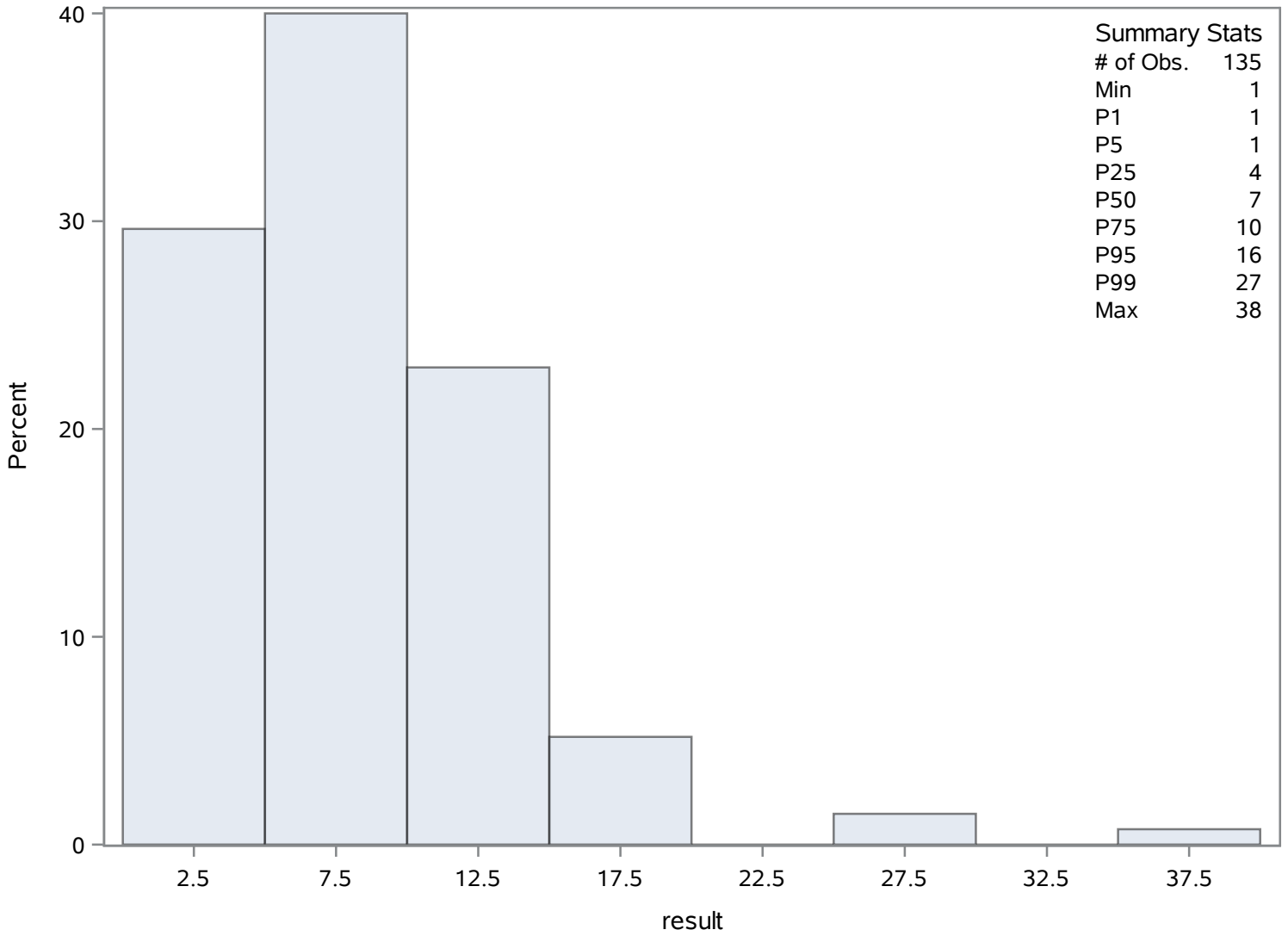
Quantiles (Definition 5)	
Level	Quantile
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1244	18	1306
1	1219	19	1257
1	1218	27	1304
1	1207	27	1305
1	1206	38	1292

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.7655797	Sum Observations	3279.65
Std Deviation	2.54147495	Variance	6.45909492
Skewness	-0.2082767	Kurtosis	-0.3698583
Uncorrected SS	78827.6795	Corrected SS	884.896004
Coeff Variation	10.6939321	Std Error Mean	0.21634471

Basic Statistical Measures			
Location		Variability	
Mean	23.76558	Std Deviation	2.54147
Median	24.05500	Variance	6.45909
Mode	20.68000	Range	13.18000
		Interquartile Range	3.88000

Note: The mode displayed is the smallest of 12 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	109.8505	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	29.580
99%	29.200
95%	27.450
90%	27.000
75% Q3	25.680
50% Median	24.055
25% Q1	21.800
10%	20.600
5%	19.700

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TEMP_C

The UNIVARIATE Procedure
Variable: result

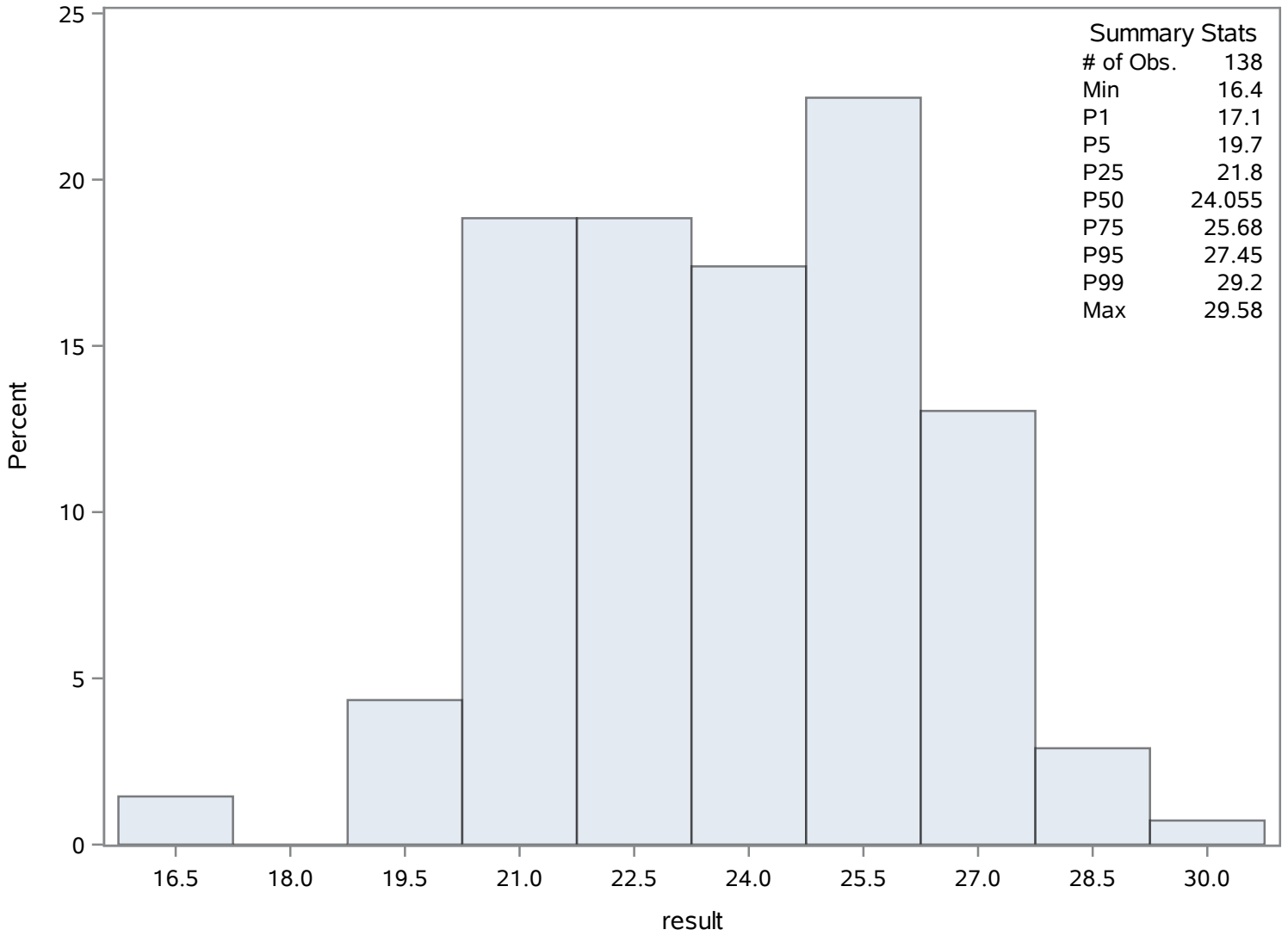
Quantiles (Definition 5)	
Level	Quantile
1%	17.100
0% Min	16.400

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
16.40	1337	28.05	1406
17.10	1338	28.24	1382
18.80	1339	28.43	1395
18.92	1340	29.20	1430
19.17	1373	29.58	1418

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	455.789855	Sum Observations	62899
Std Deviation	164.521578	Variance	27067.3497
Skewness	1.69094509	Kurtosis	6.54430794
Uncorrected SS	32376953	Corrected SS	3708226.91
Coeff Variation	36.0959281	Std Error Mean	14.0050068

Basic Statistical Measures			
Location		Variability	
Mean	455.7899	Std Deviation	164.52158
Median	449.0000	Variance	27067
Mode	340.0000	Range	1170
		Interquartile Range	210.00000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.54478	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1350
99%	1050
95%	720
90%	630
75% Q3	550
50% Median	449
25% Q1	340
10%	270
5%	240

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TN_ugl

The UNIVARIATE Procedure
Variable: result

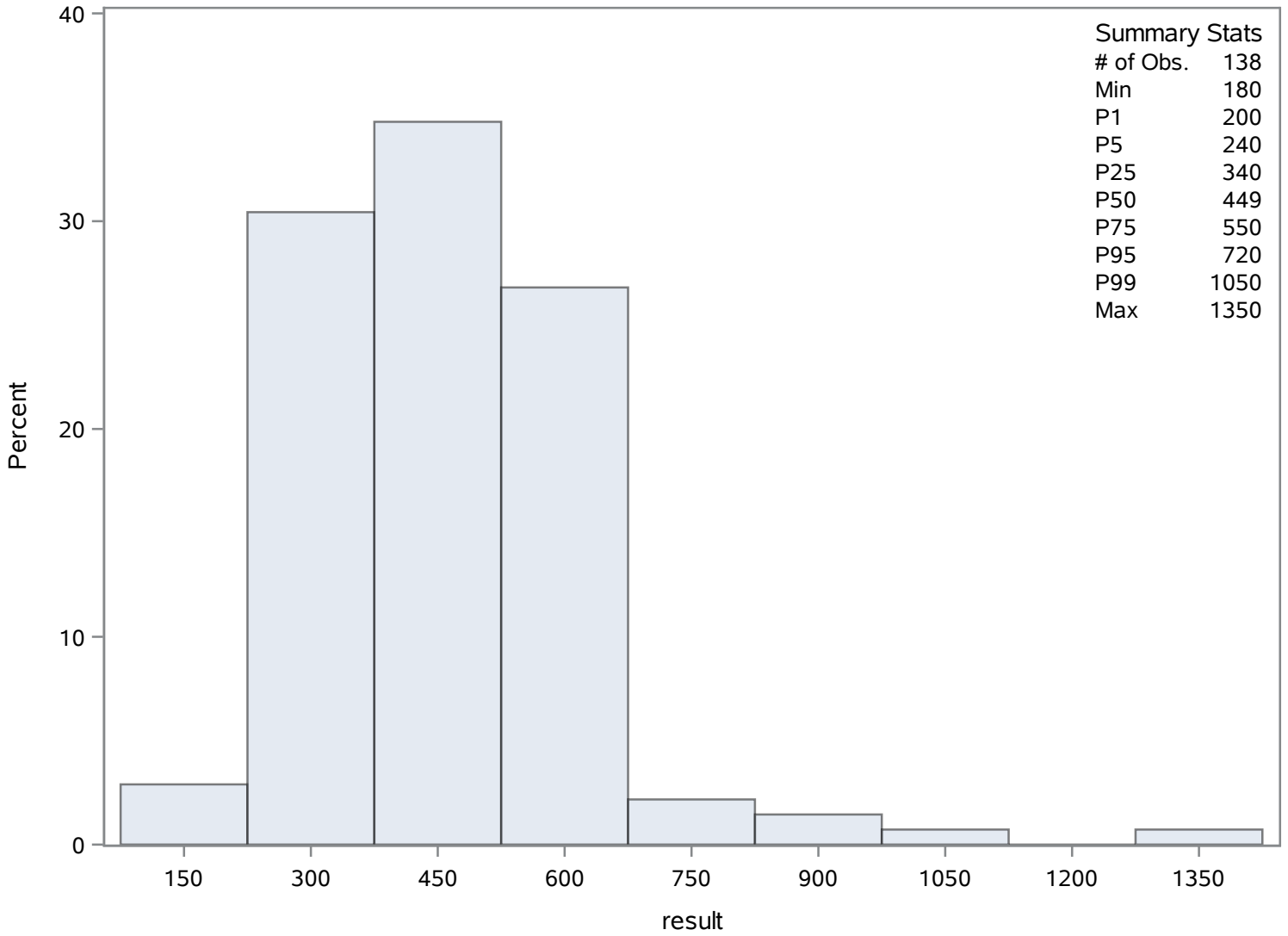
Quantiles (Definition 5)	
Level	Quantile
1%	200
0% Min	180

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
180	1516	760	1448
200	1514	880	1580
200	1475	920	1581
210	1577	1050	1566
230	1481	1350	1567

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.4565217	Sum Observations	3237
Std Deviation	17.5087547	Variance	306.55649
Skewness	5.41150794	Kurtosis	37.1086171
Uncorrected SS	117927	Corrected SS	41998.2391
Coeff Variation	74.6434397	Std Error Mean	1.49044418

Basic Statistical Measures			
Location		Variability	
Mean	23.45652	Std Deviation	17.50875
Median	20.00000	Variance	306.55649
Mode	20.00000	Range	155.00000
		Interquartile Range	10.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.73794	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	164
99%	122
95%	41
90%	34
75% Q3	26
50% Median	20
25% Q1	16
10%	12
5%	11
1%	9
0% Min	9

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TP_ugl

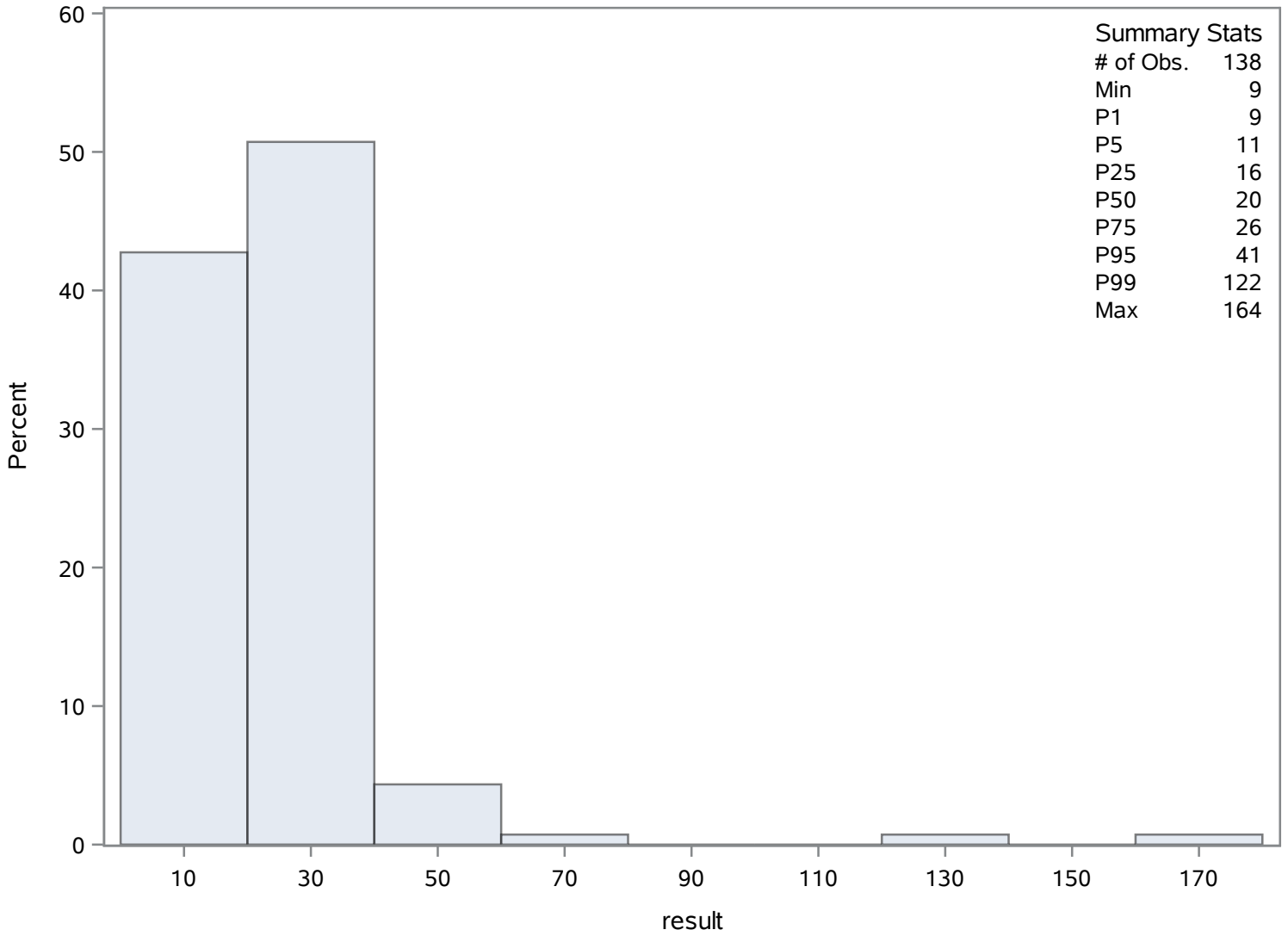
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9	1652	51	1706
9	1645	55	1694
10	1654	76	1703
10	1653	122	1704
10	1644	164	1705

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.94055556	Sum Observations	857.58
Std Deviation	0.38091094	Variance	0.14509315
Skewness	0.12888315	Kurtosis	-0.6215738
Uncorrected SS	6825.1866	Corrected SS	15.5249667
Coeff Variation	4.79703139	Std Error Mean	0.03665317

Basic Statistical Measures			
Location		Variability	
Mean	7.940556	Std Deviation	0.38091
Median	7.920000	Variance	0.14509
Mode	7.520000	Range	1.72000
		Interquartile Range	0.57000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	216.6403	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.830
99%	8.710
95%	8.620
90%	8.460
75% Q3	8.205
50% Median	7.920
25% Q1	7.635
10%	7.450
5%	7.370

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Field

The UNIVARIATE Procedure
Variable: result

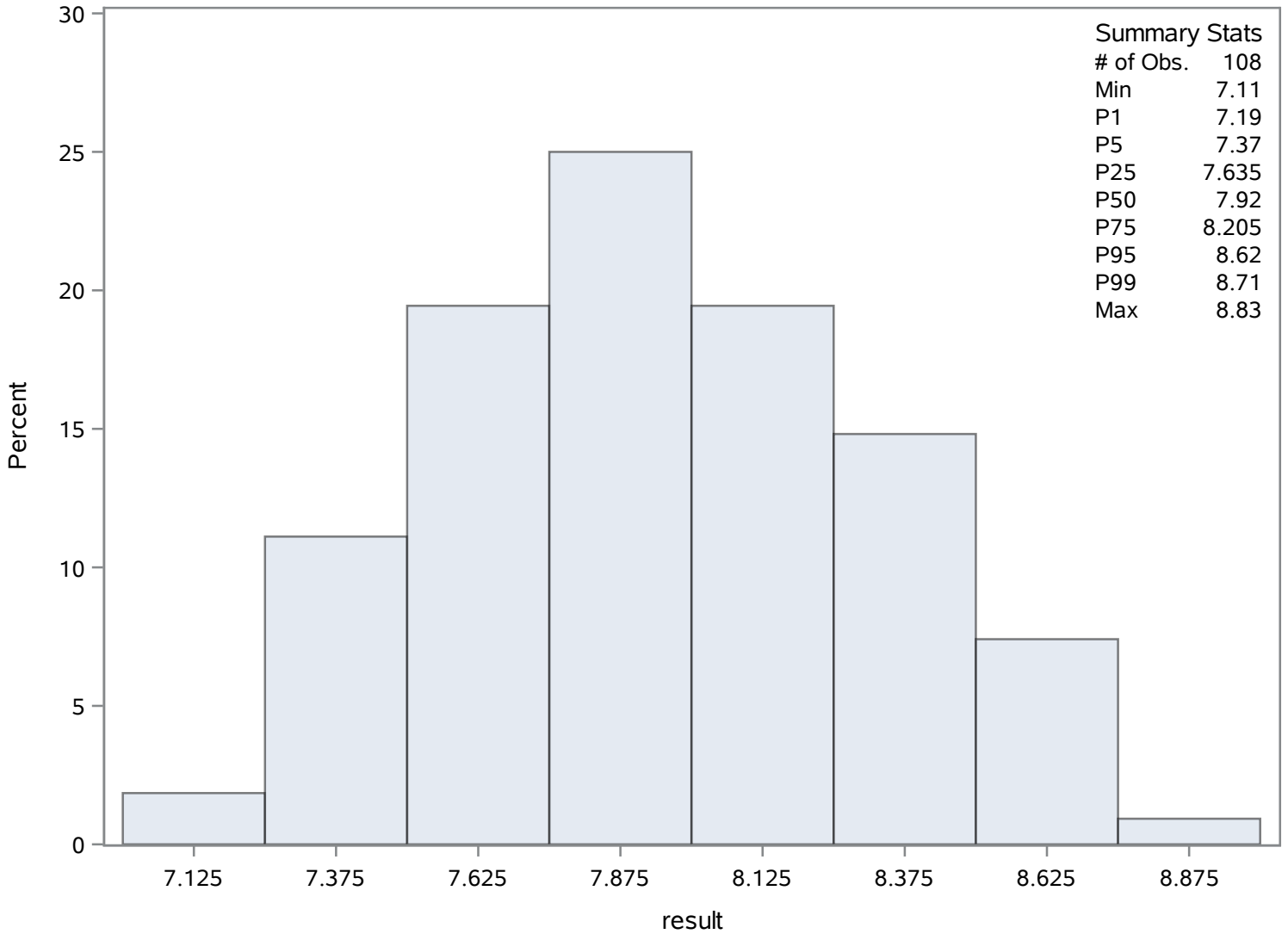
Quantiles (Definition 5)	
Level	Quantile
1%	7.190
0% Min	7.110

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.11	1790	8.64	1785
7.19	1791	8.65	1781
7.25	1814	8.70	1783
7.28	1815	8.71	1796
7.33	1778	8.83	1784

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8.02608696	Sum Observations	1107.6
Std Deviation	0.31374925	Variance	0.09843859
Skewness	0.26286243	Kurtosis	-0.5123412
Uncorrected SS	8903.18	Corrected SS	13.486087
Coeff Variation	3.90911848	Std Error Mean	0.02670811

Basic Statistical Measures			
Location		Variability	
Mean	8.026087	Std Deviation	0.31375
Median	8.000000	Variance	0.09844
Mode	7.900000	Range	1.50000
		Interquartile Range	0.50000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	300.5112	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.8
99%	8.7
95%	8.6
90%	8.5
75% Q3	8.3
50% Median	8.0
25% Q1	7.8
10%	7.7
5%	7.5
1%	7.4
0% Min	7.3

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Lab

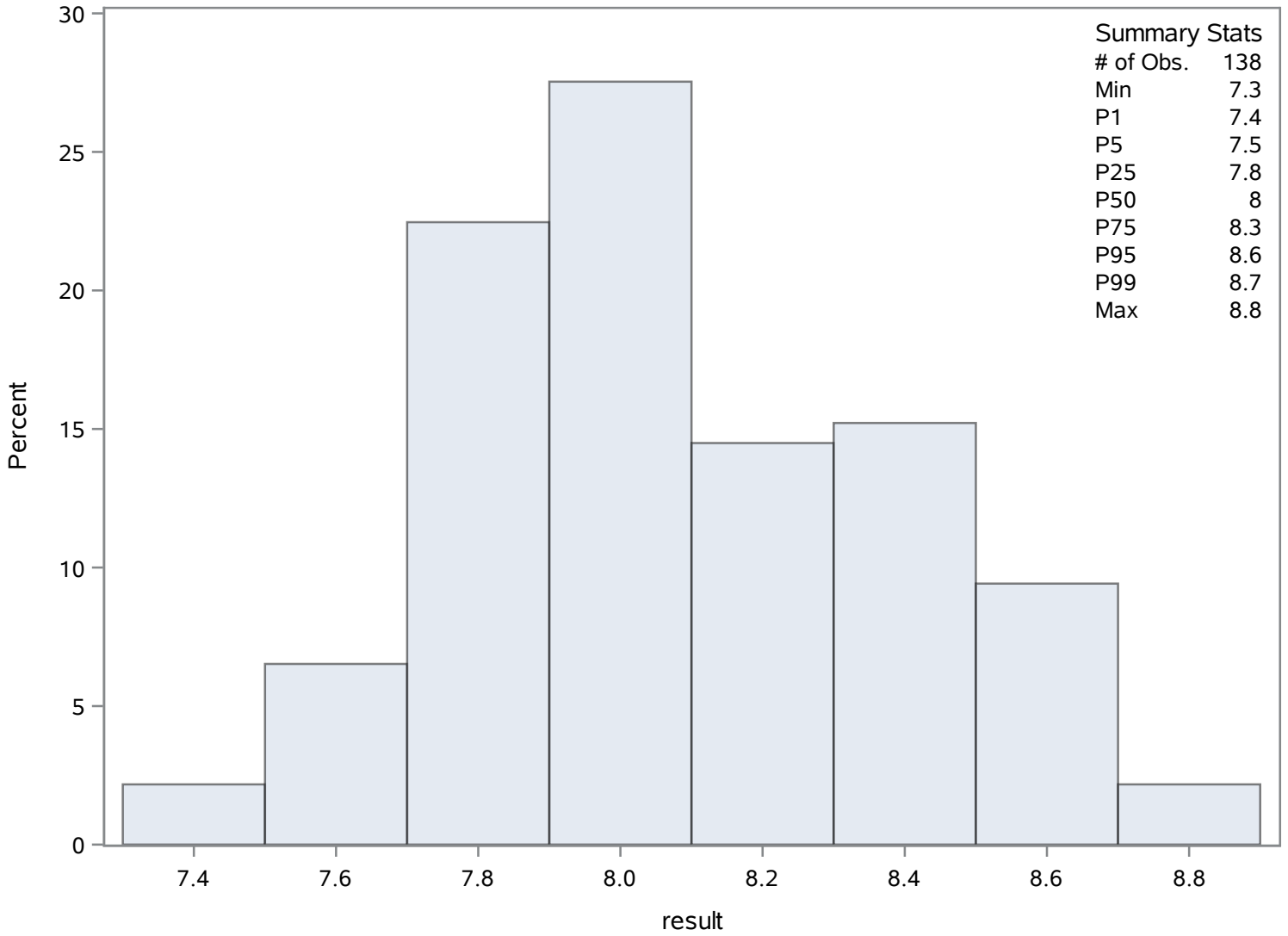
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.3	1965	8.6	1934
7.4	1966	8.6	1962
7.4	1964	8.7	1839
7.5	1869	8.7	1840
7.5	1858	8.8	1922

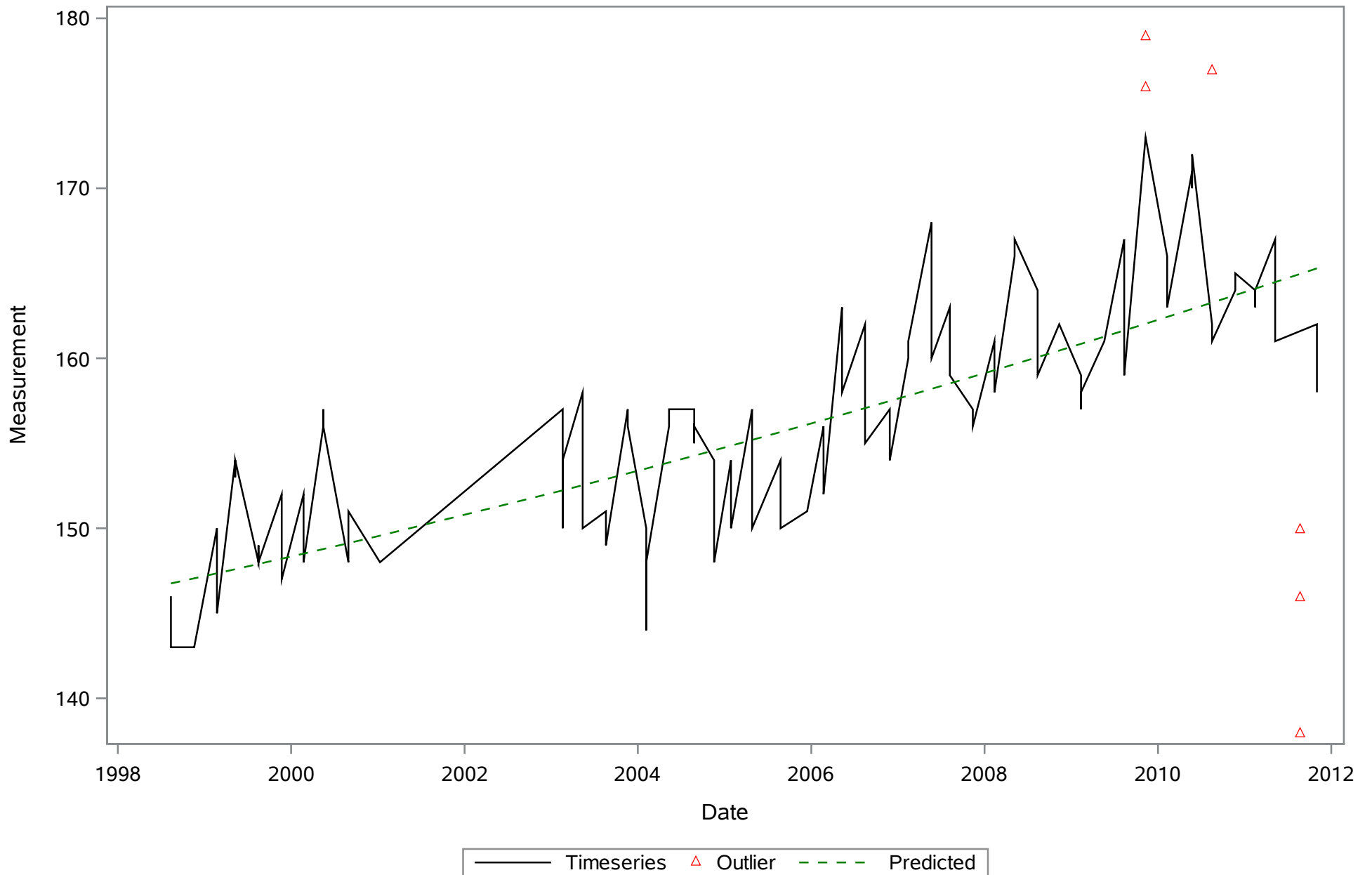
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Lab

The UNIVARIATE Procedure

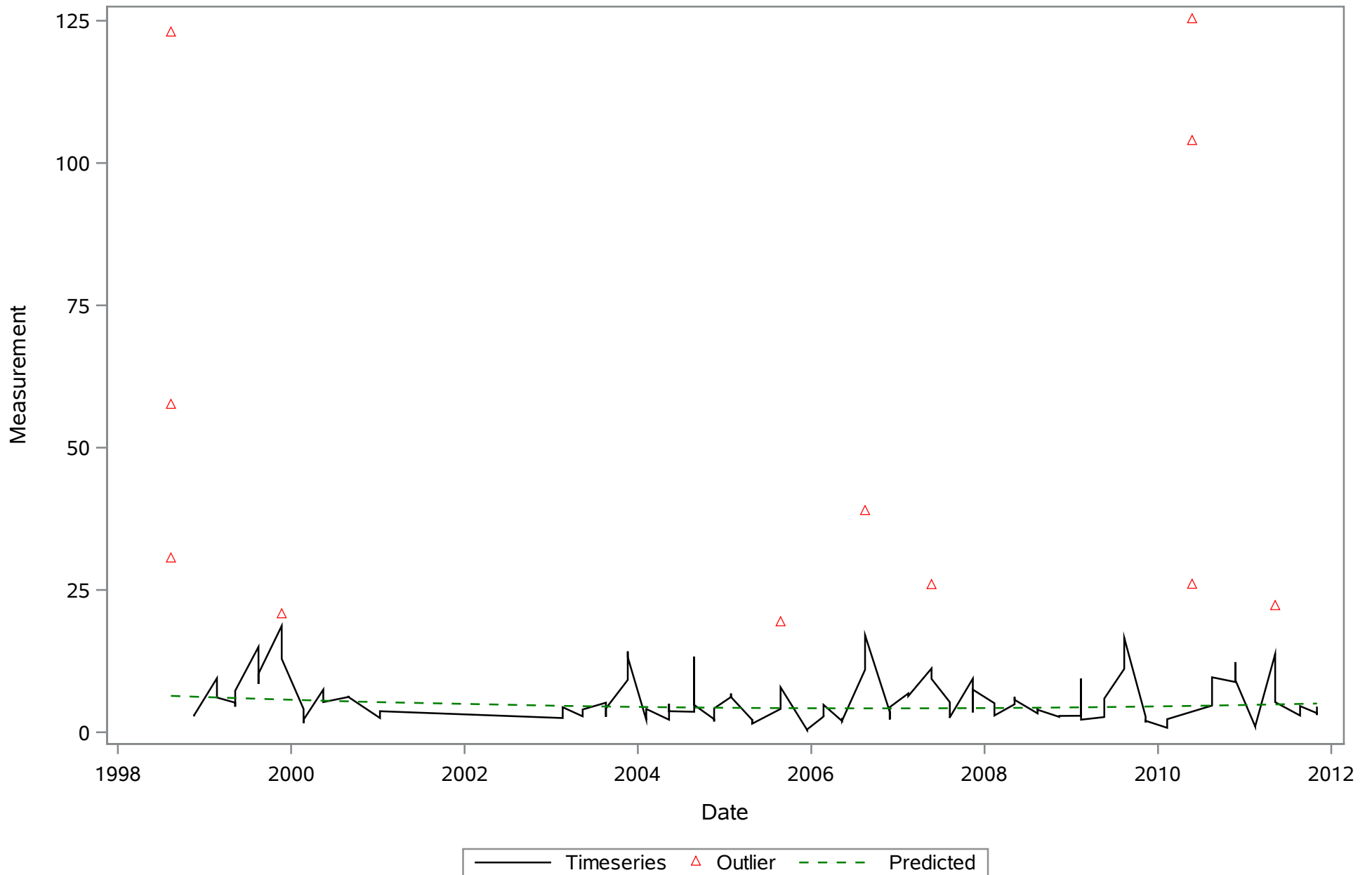
Distribution of result



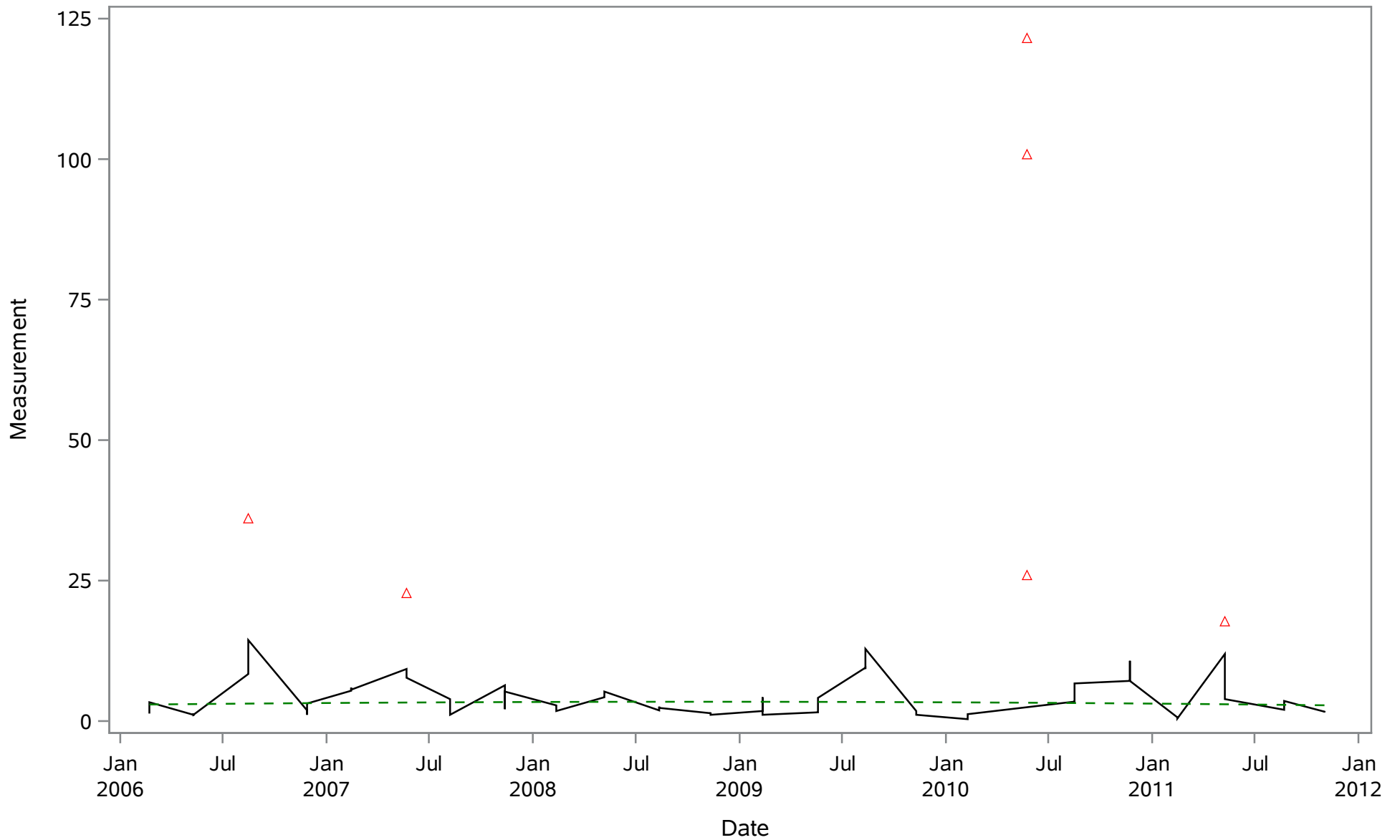
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_Uncor_ugL



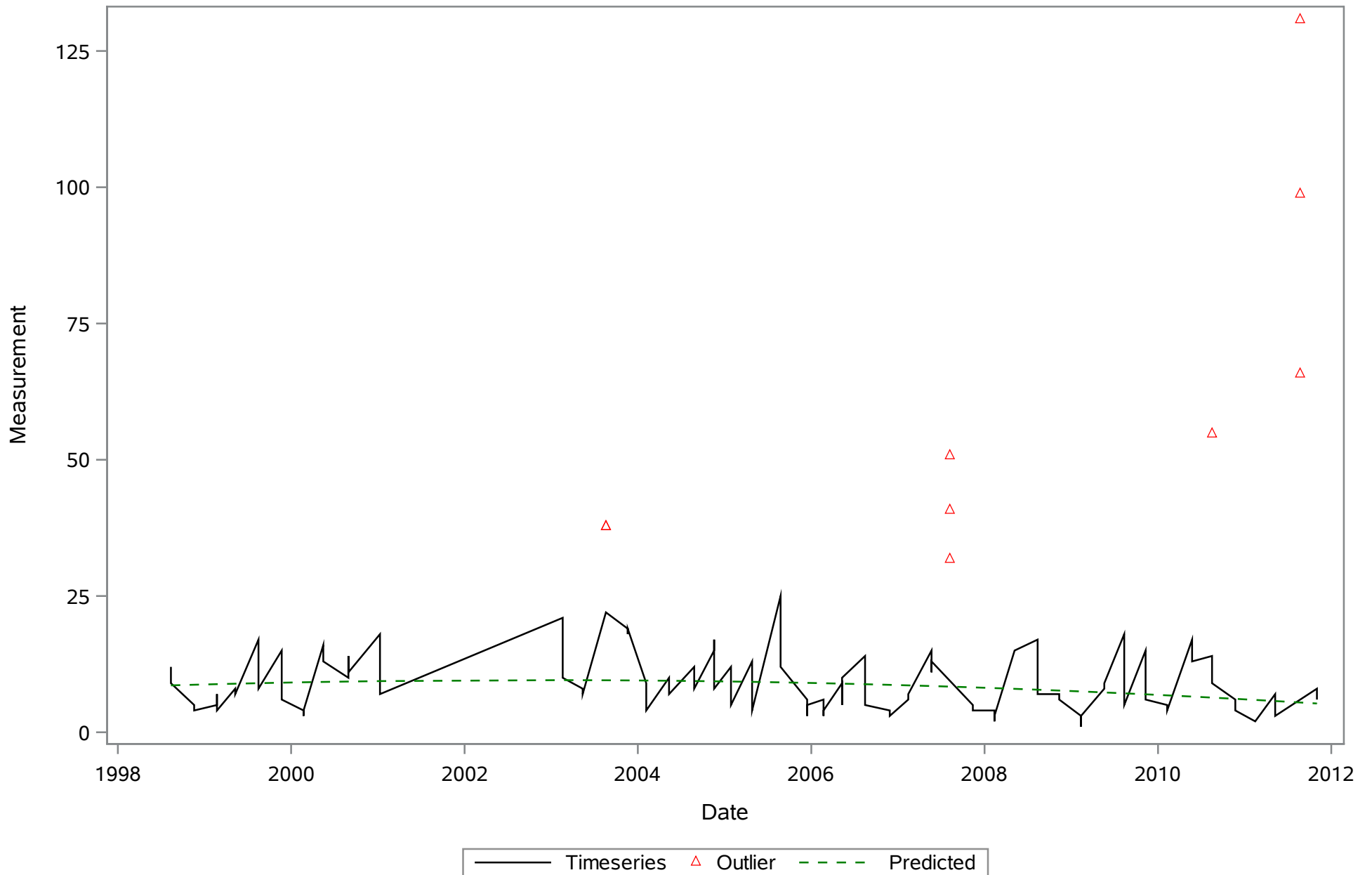
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_cor_ugl



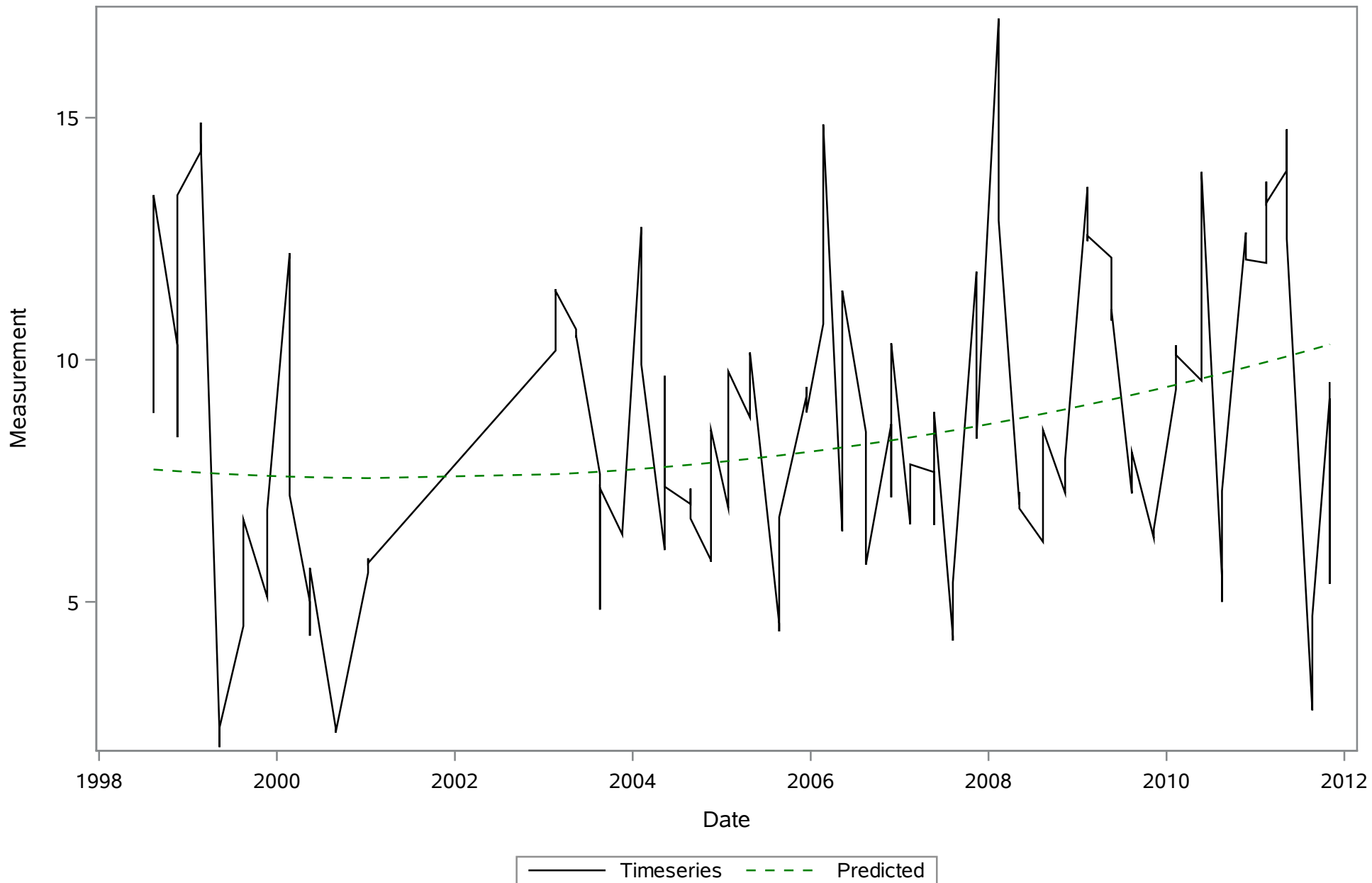
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station

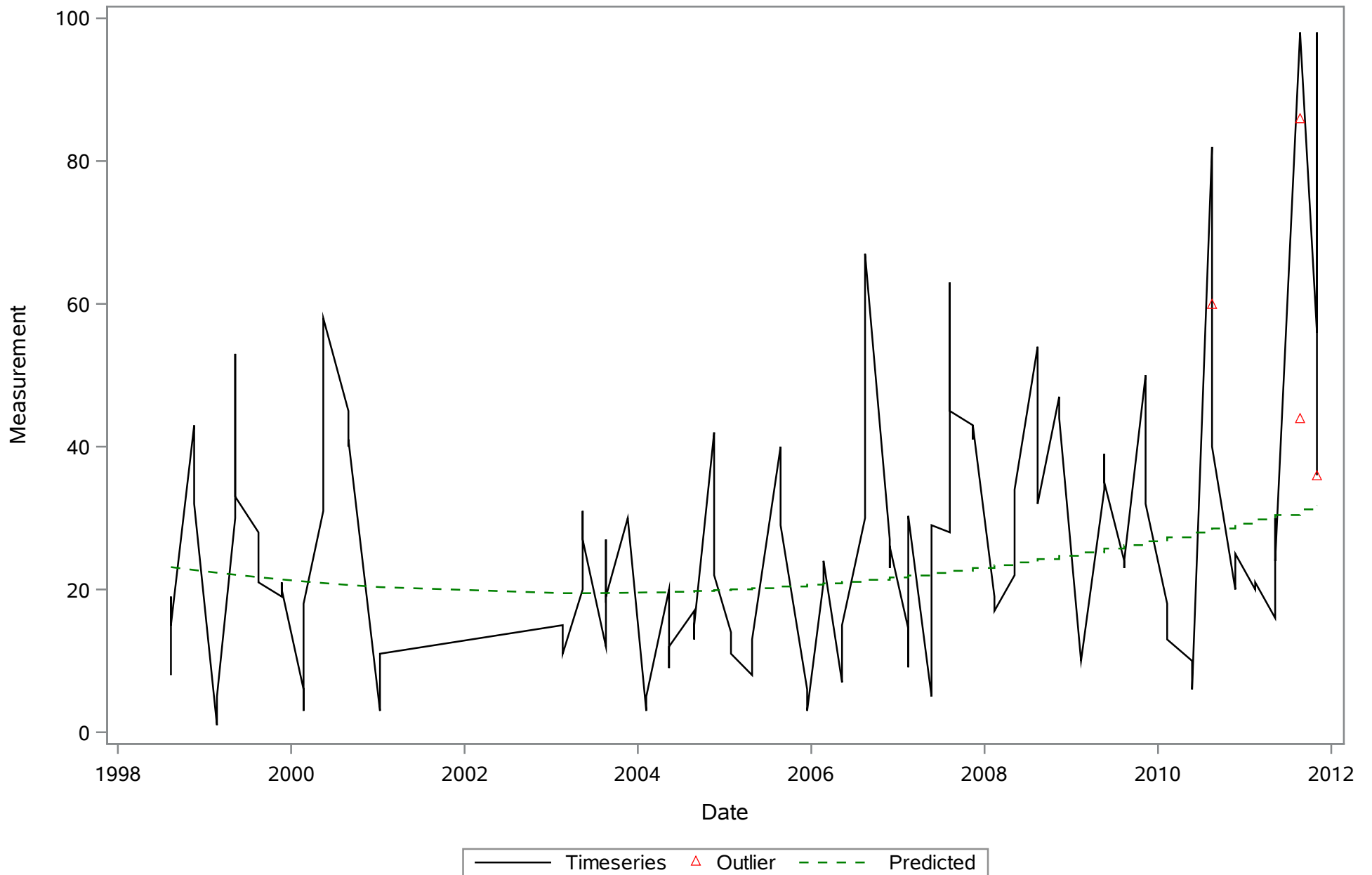
Source: UF 5 Rivers Study
Transect 7
COLOR_PtCo



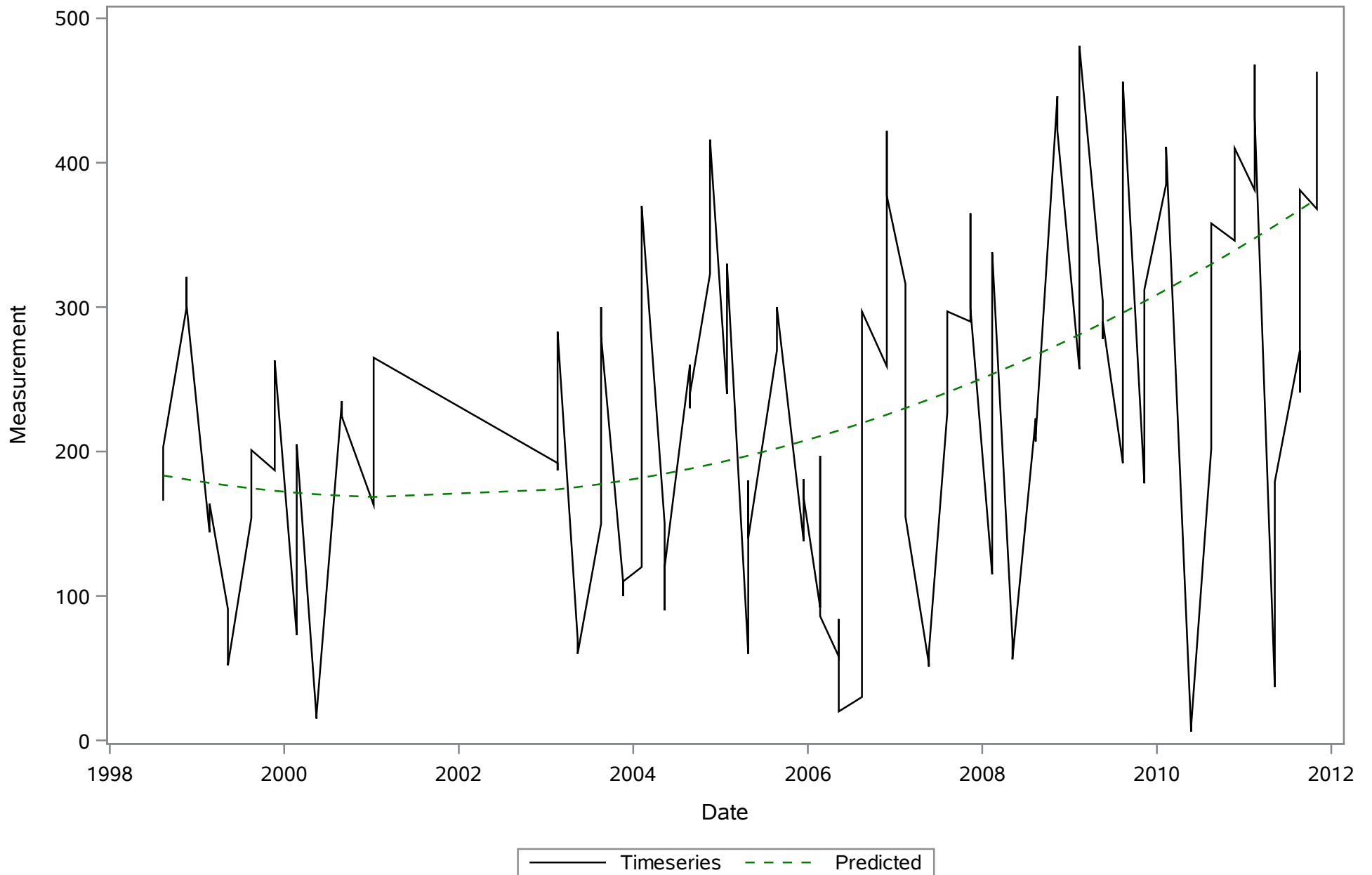
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
DO_mgL



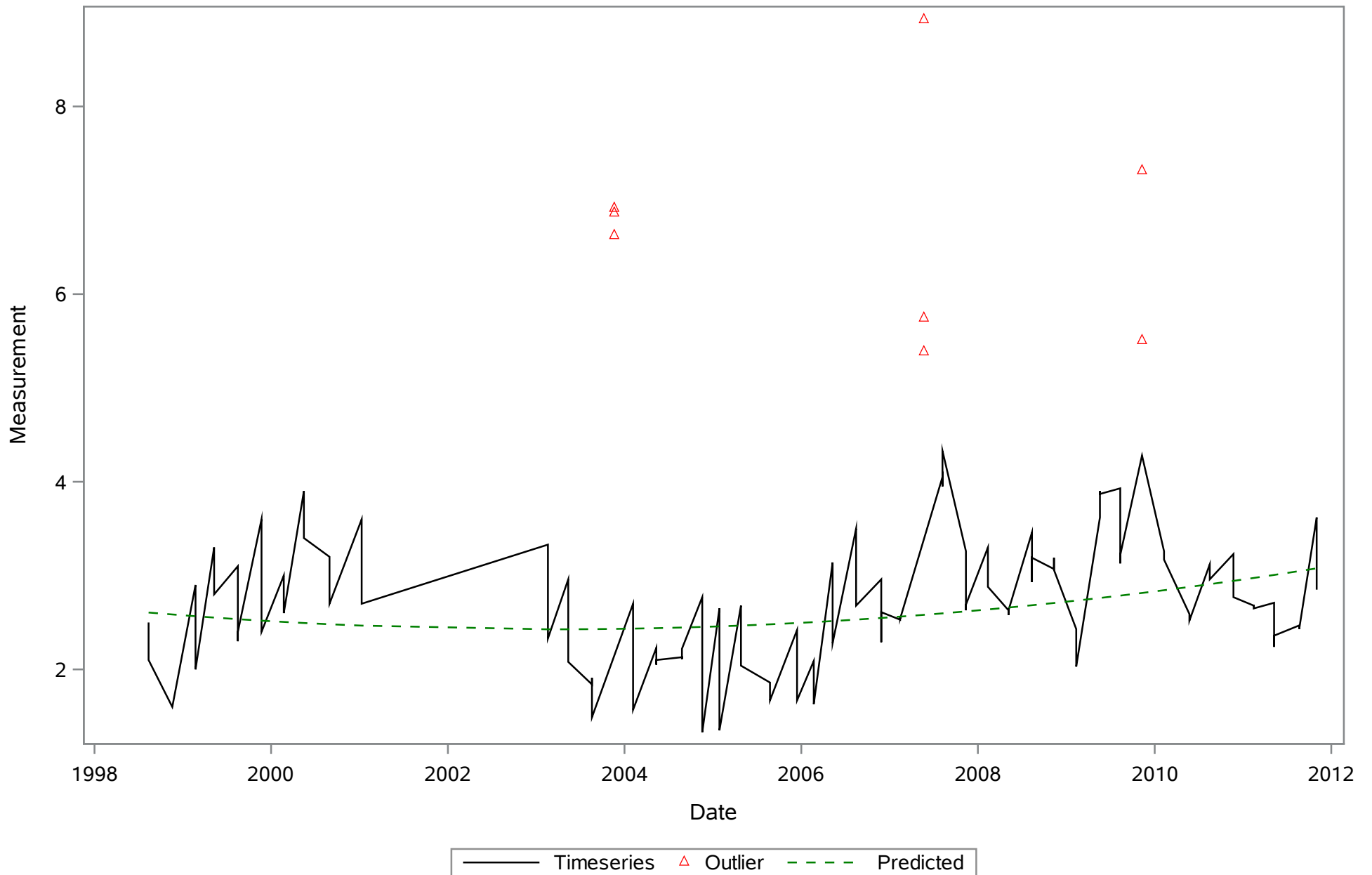
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NH₄_ugl



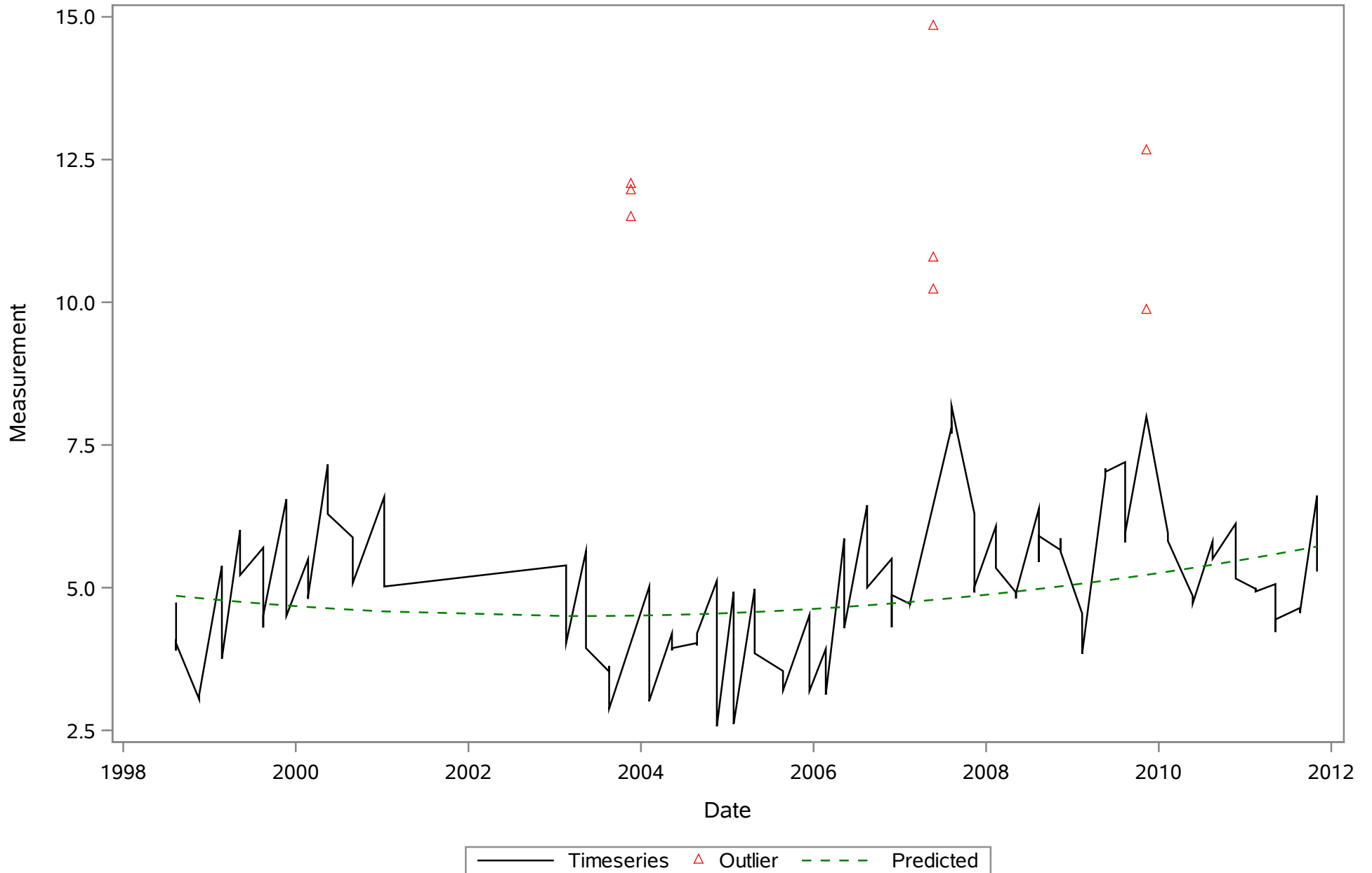
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NO3_ugL



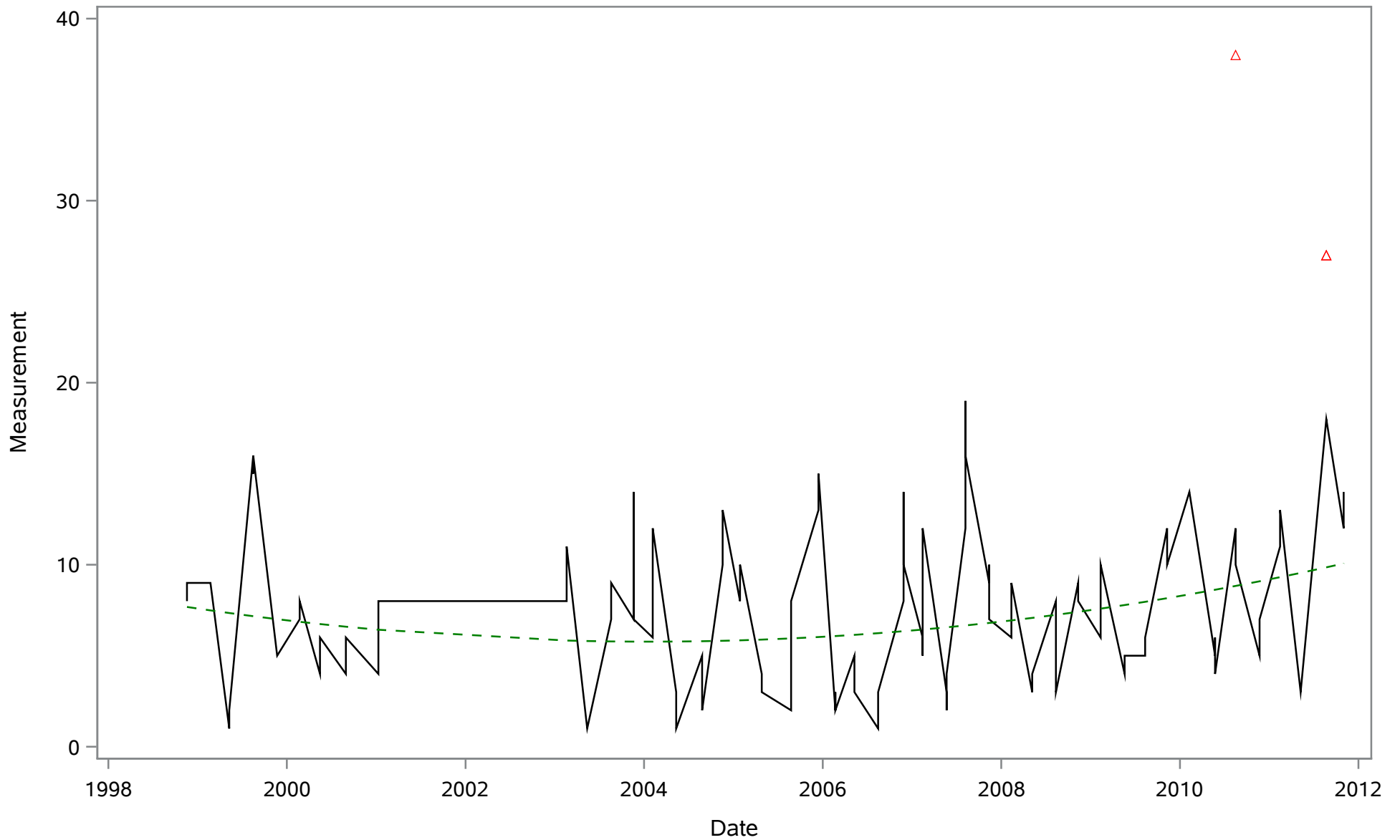
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SAL_Perc



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SPCOND_mS_cm

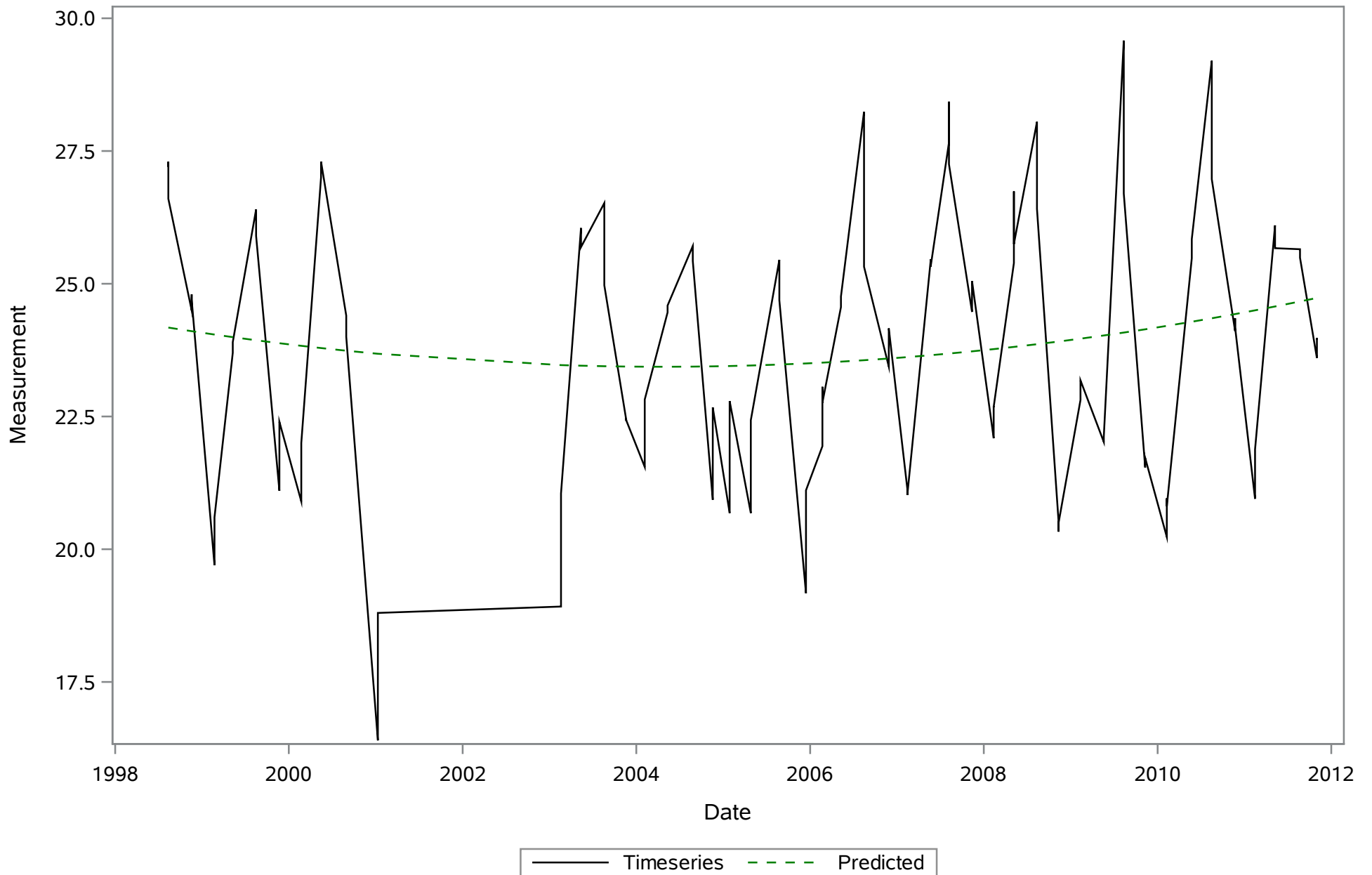


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SRP_ugL

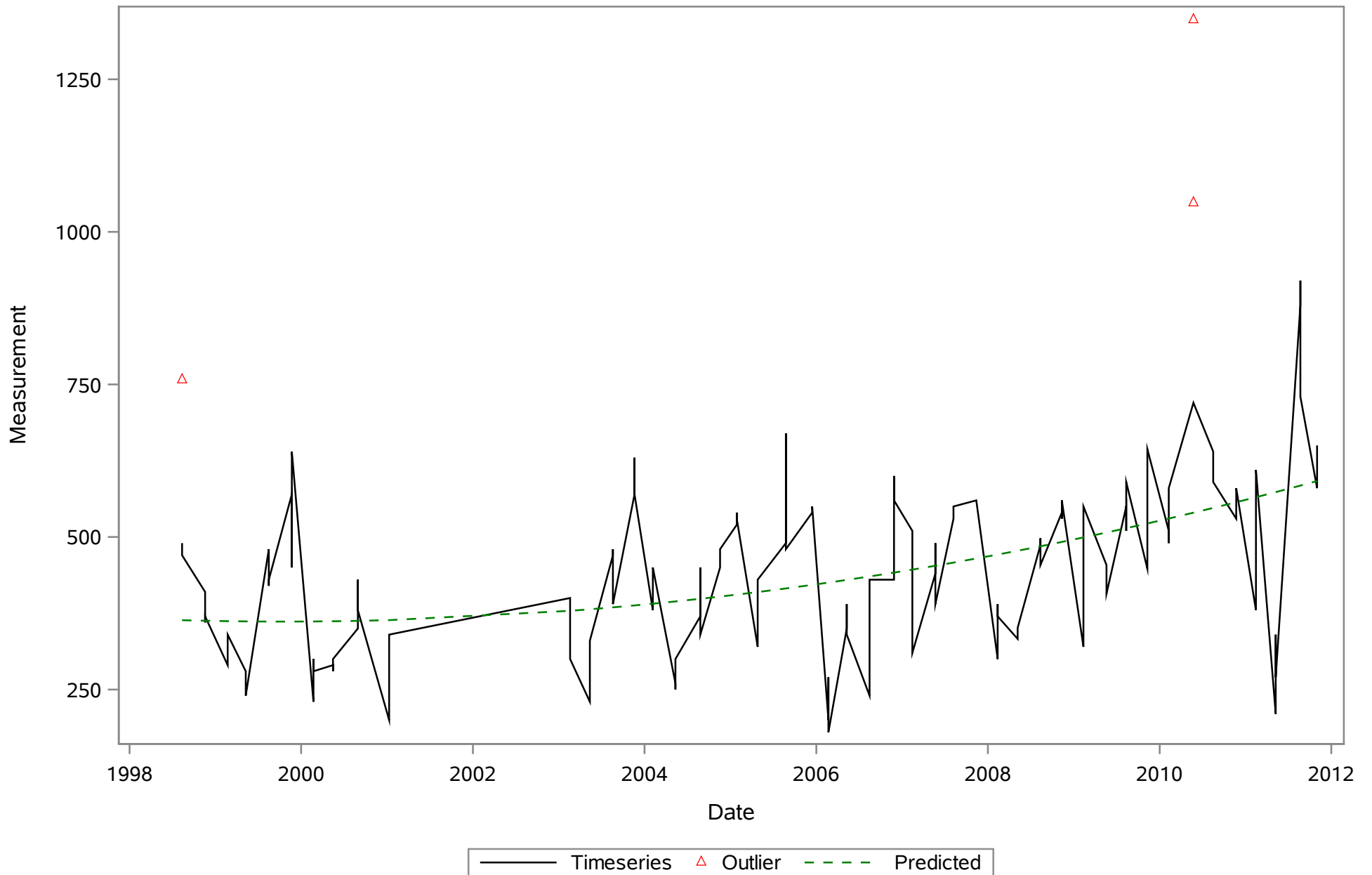


— Timeseries △ Outlier - - - Predicted

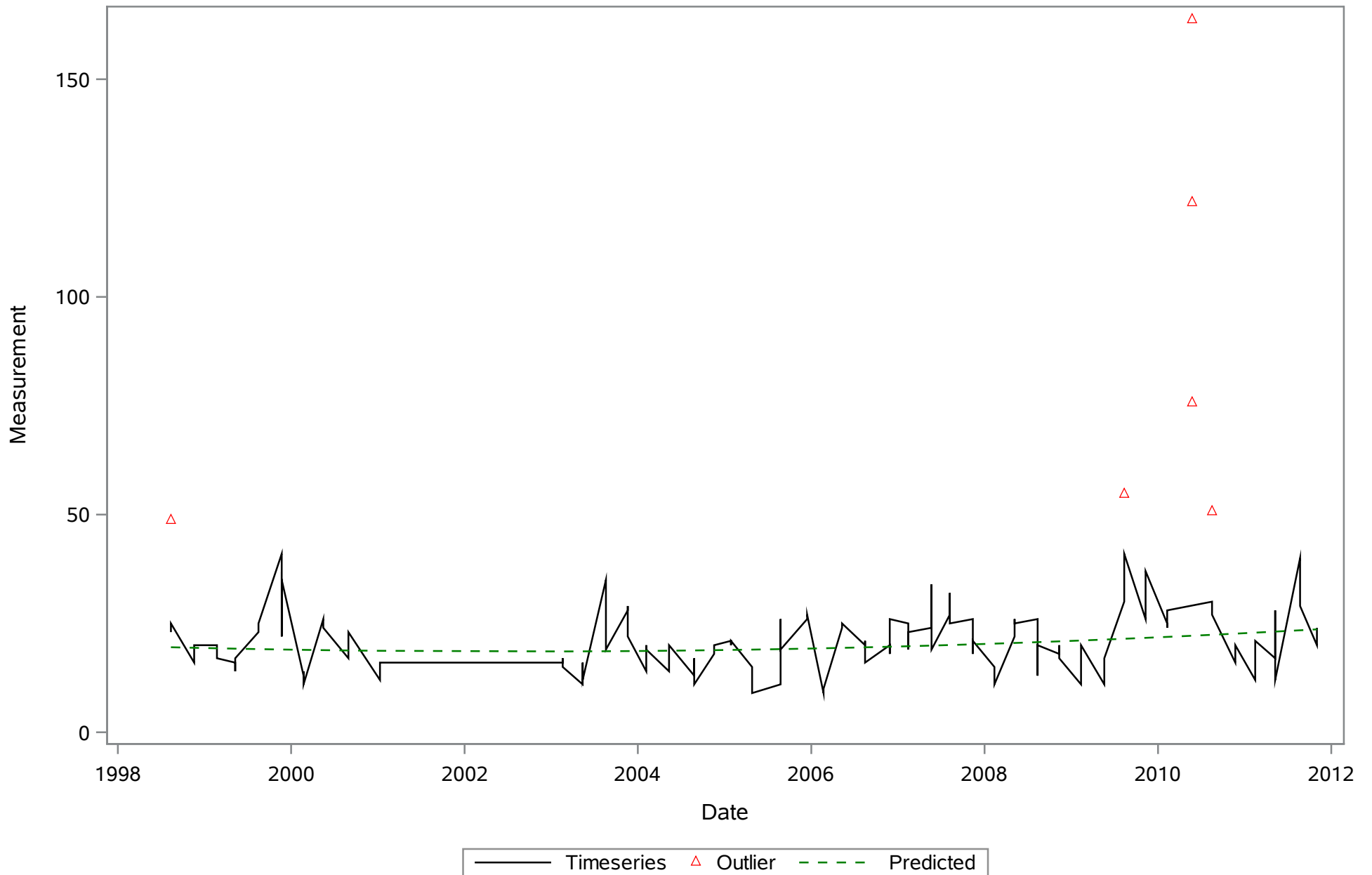
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TEMP_C



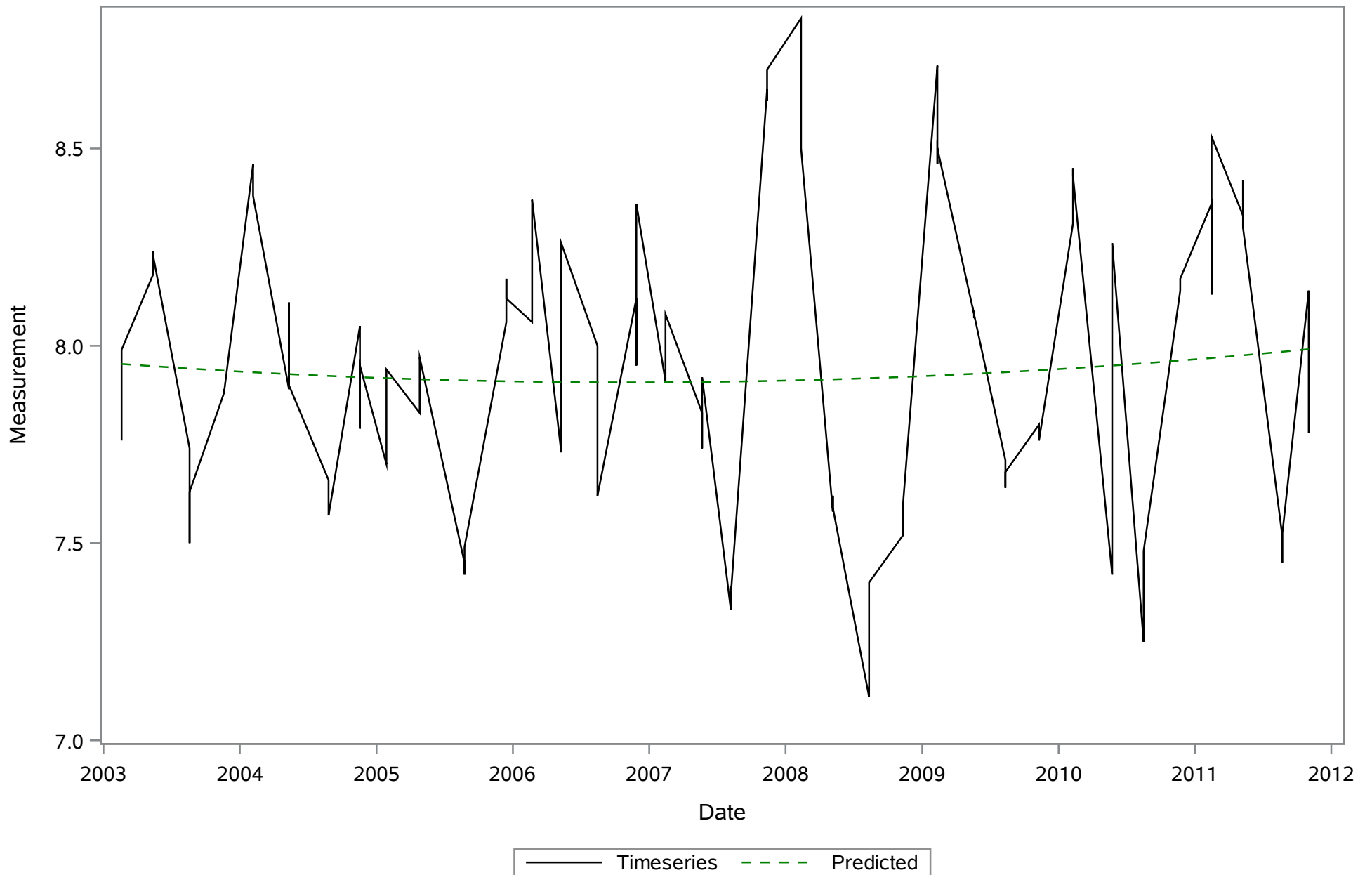
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TN_ugl



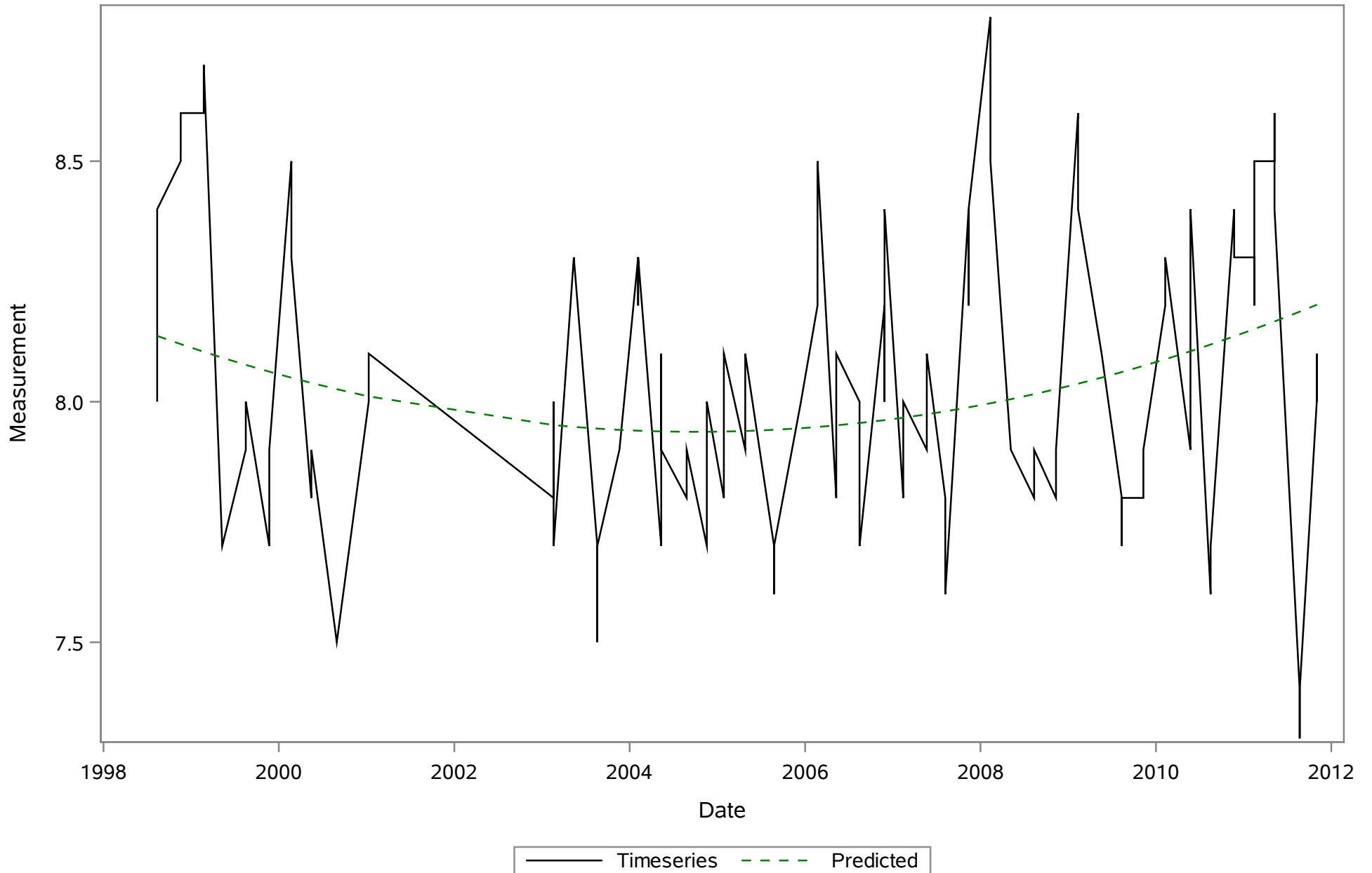
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TP_ugl



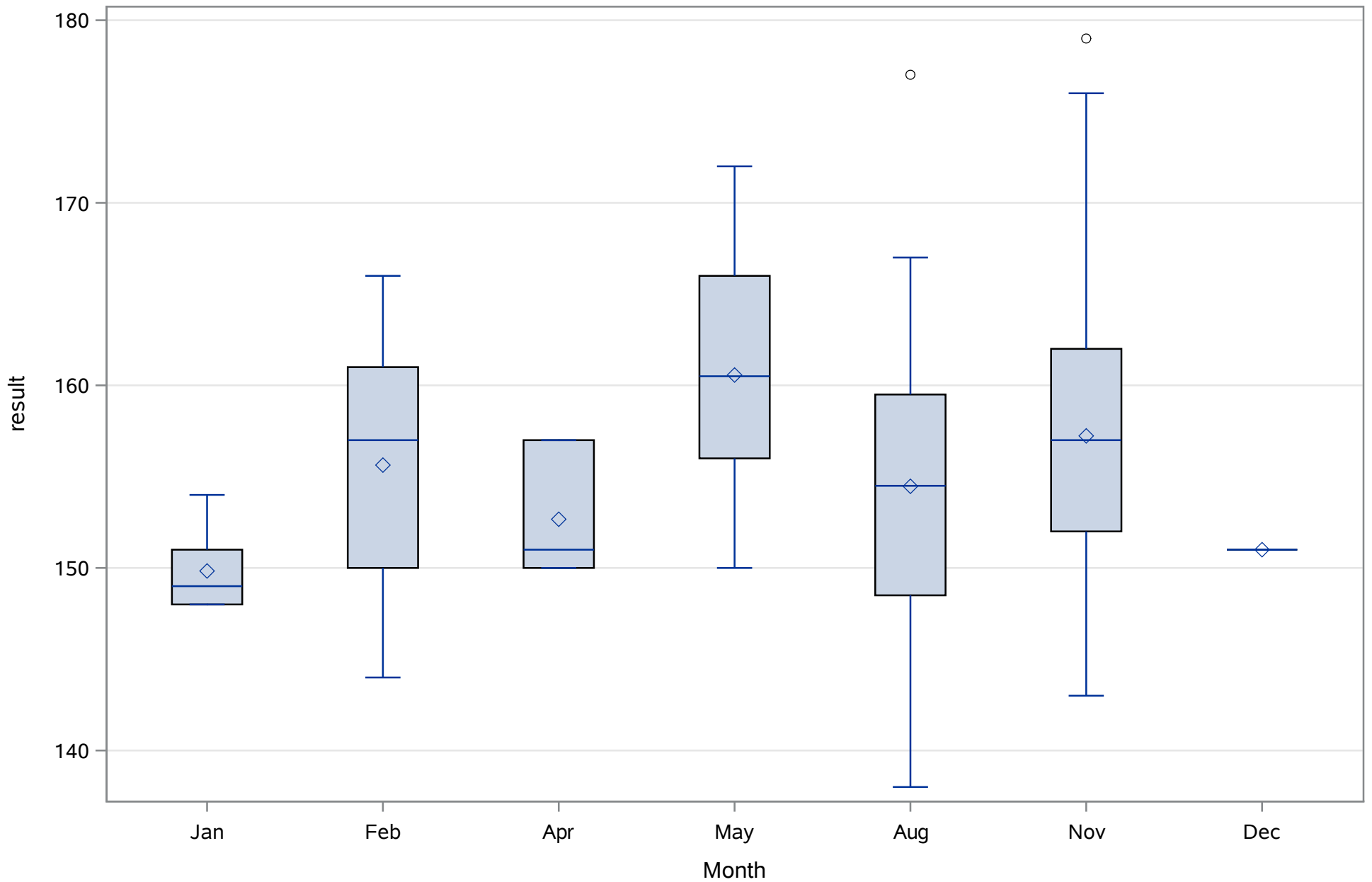
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Field



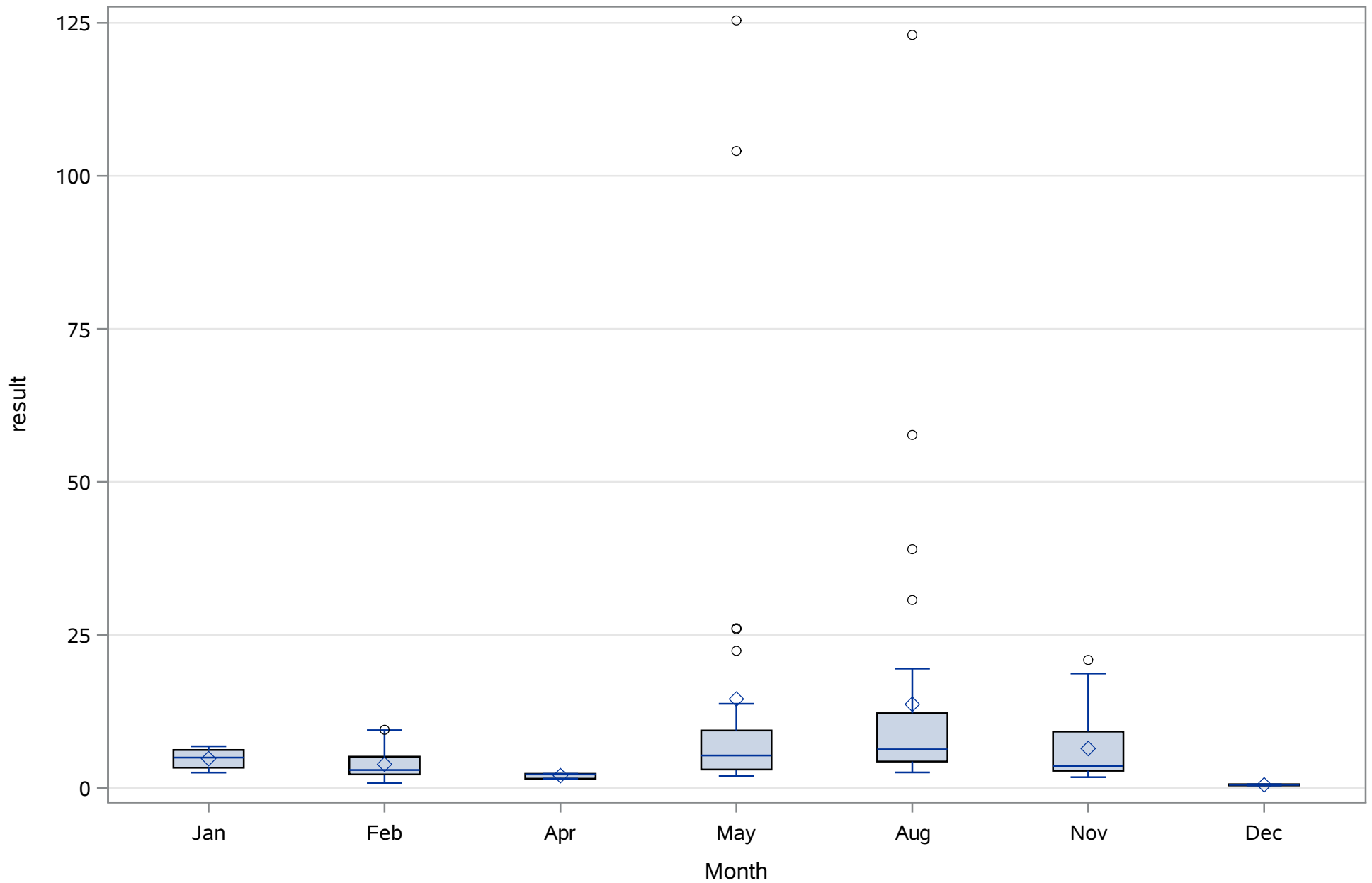
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Lab



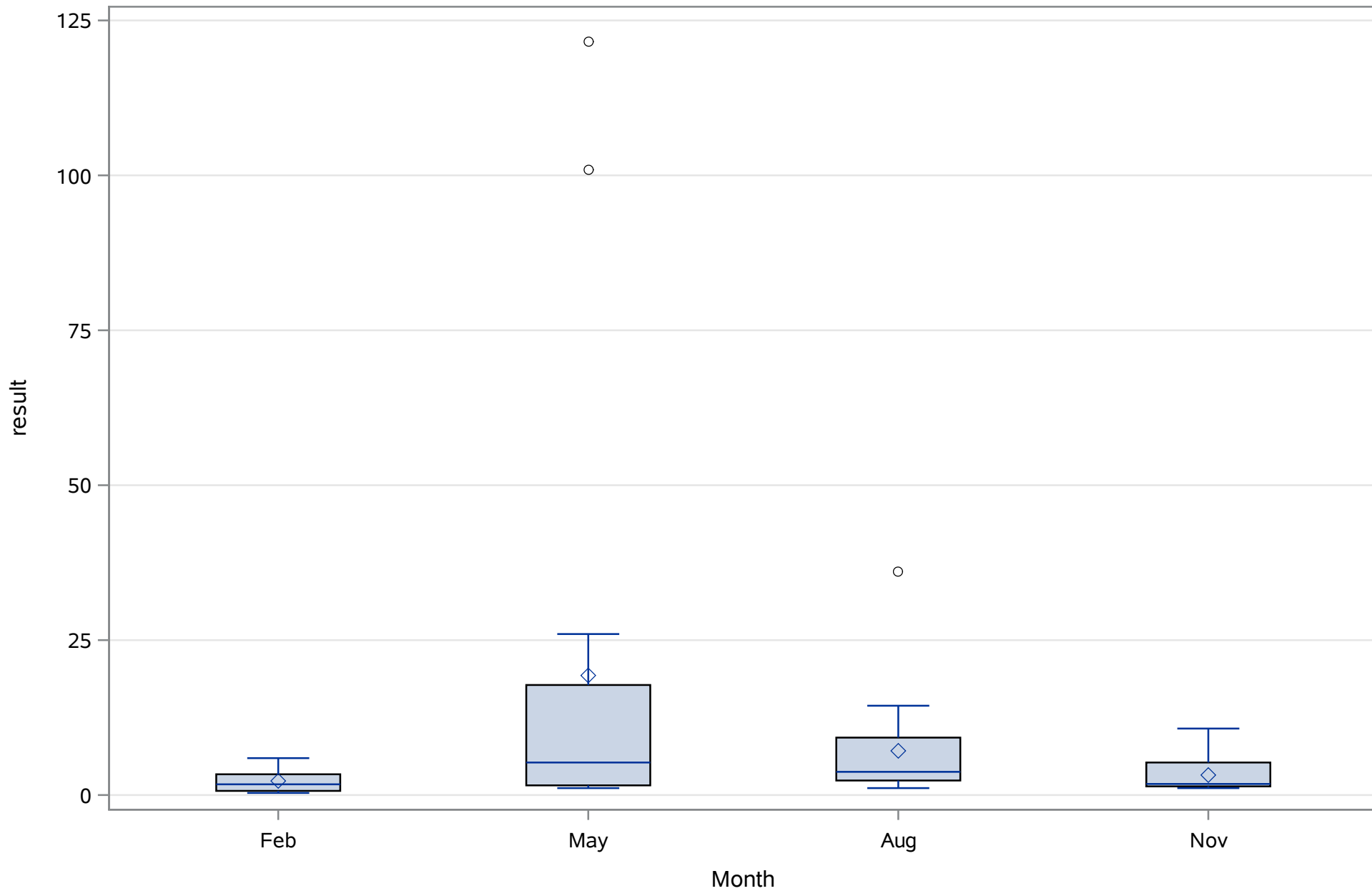
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
ALK_tot_mgL



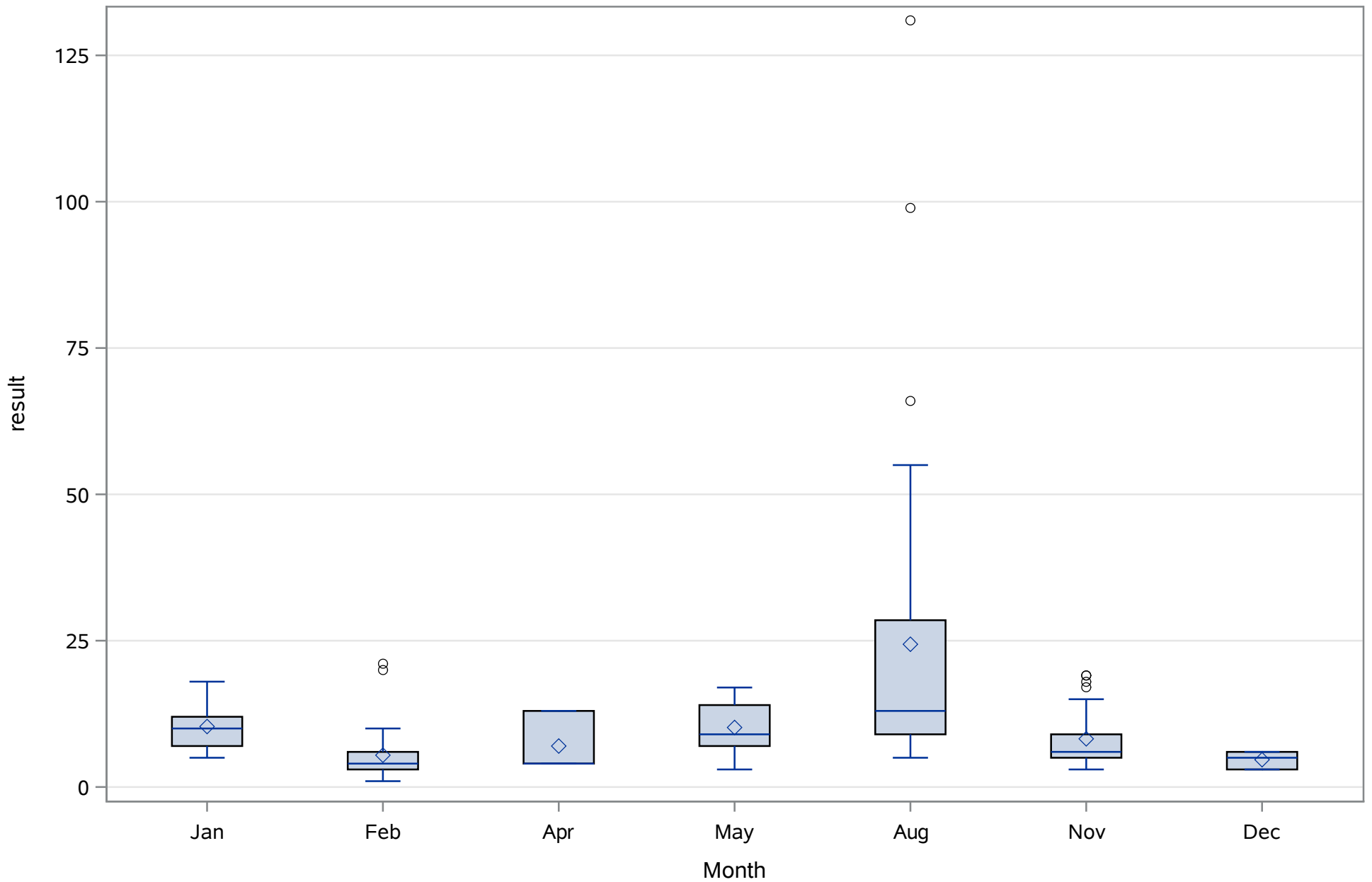
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_Uncor_ugL



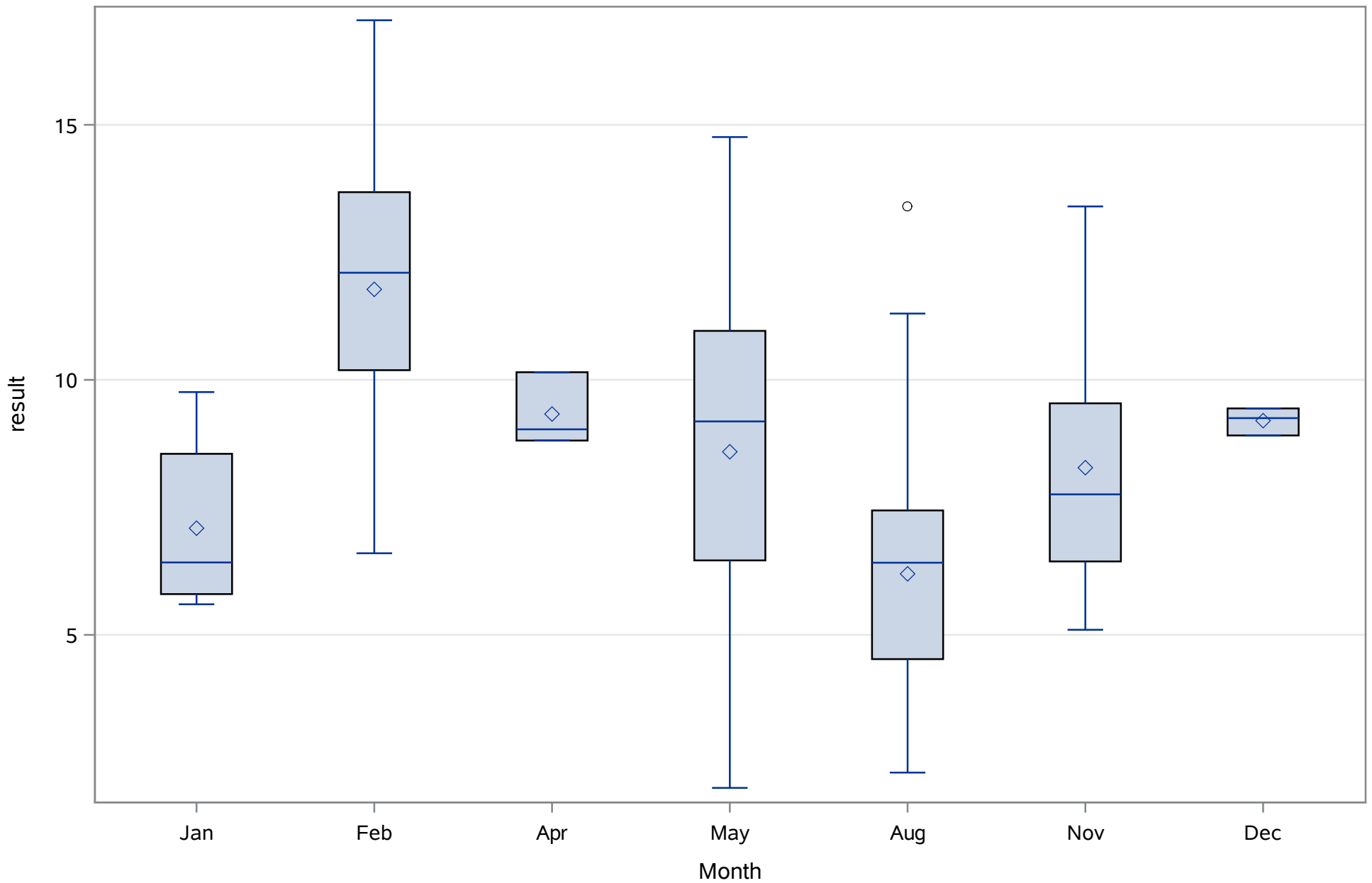
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
CHLA_cor_ugl



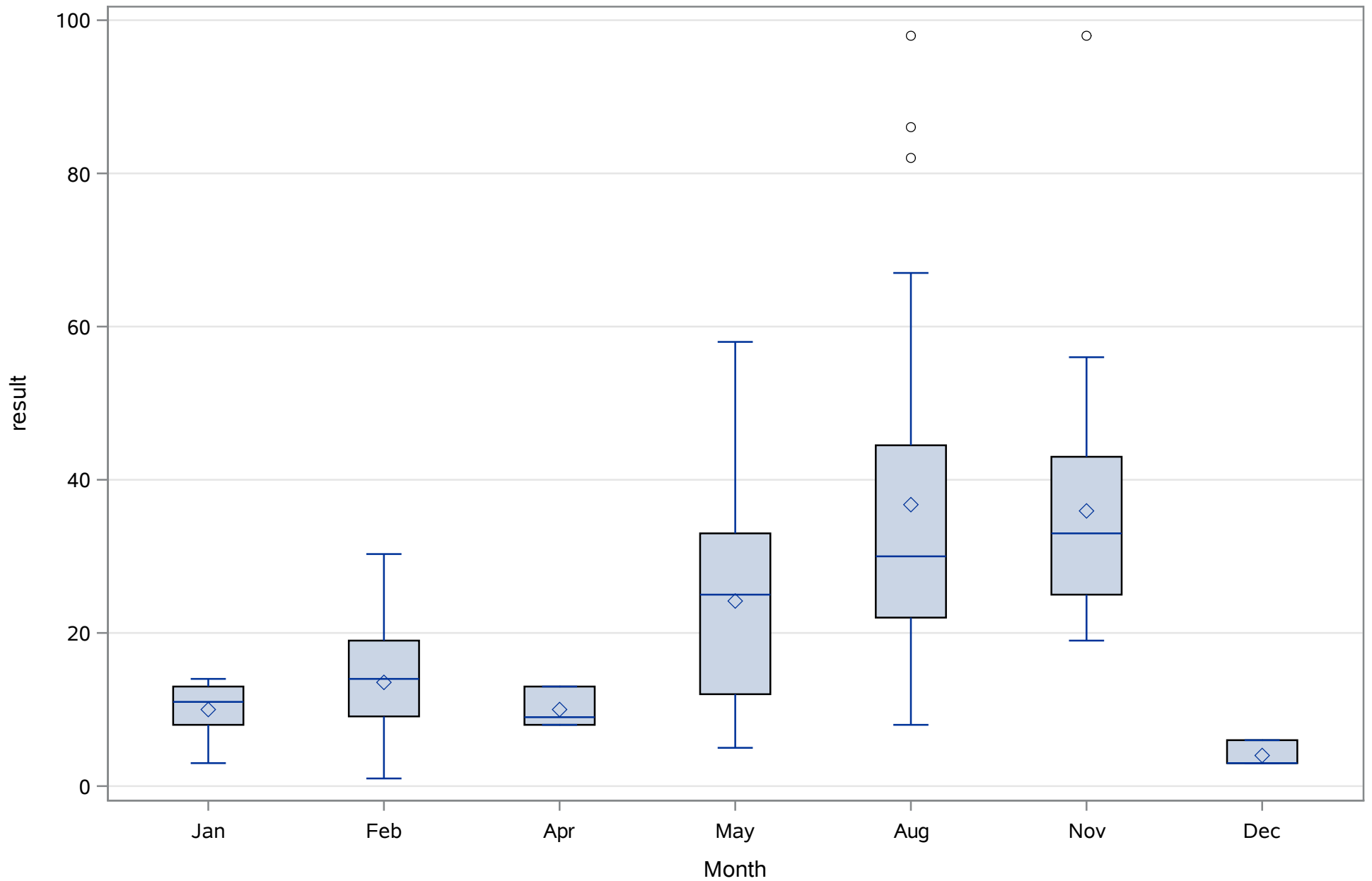
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
COLOR_PtCo



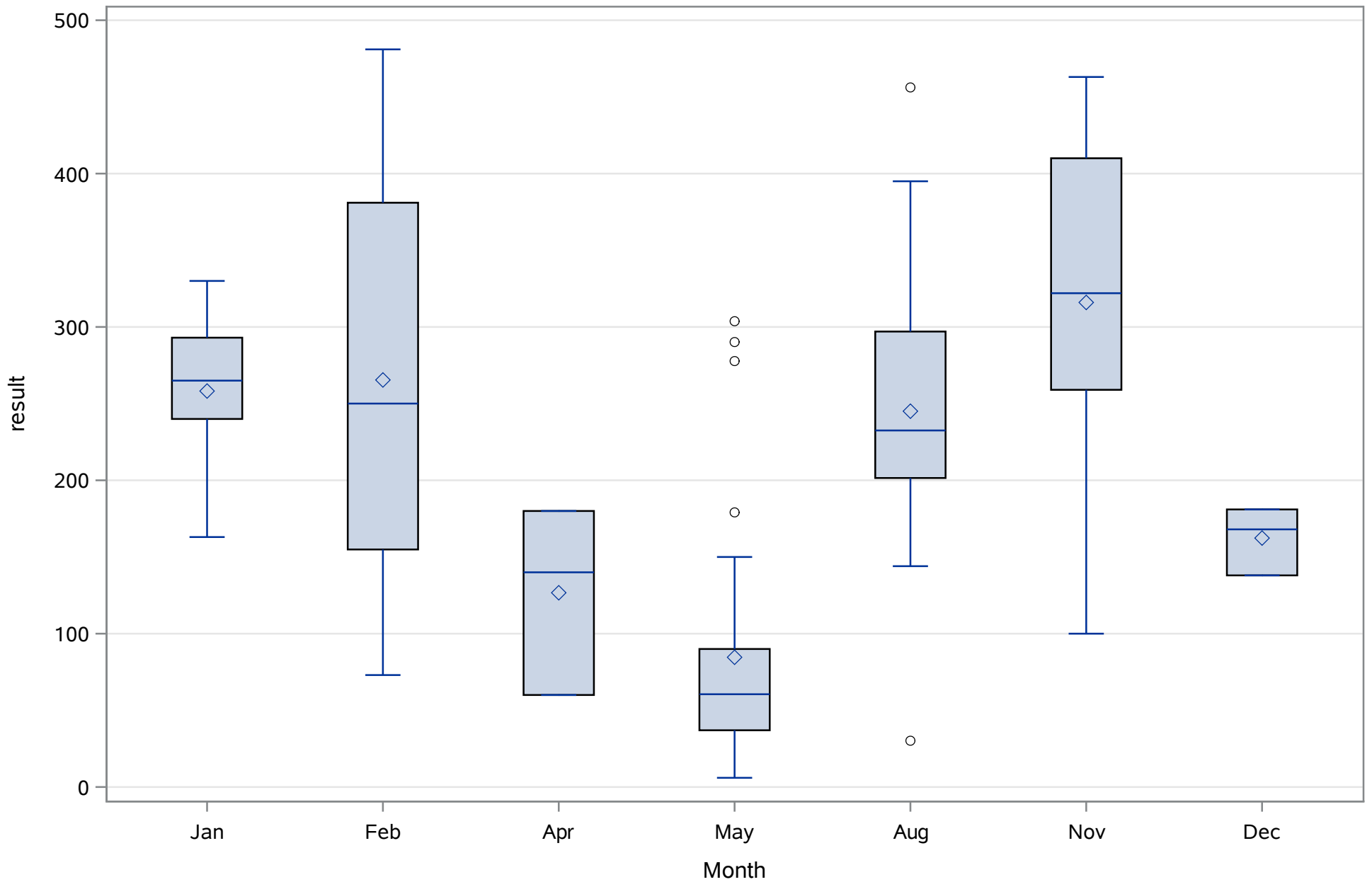
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
DO_mgL



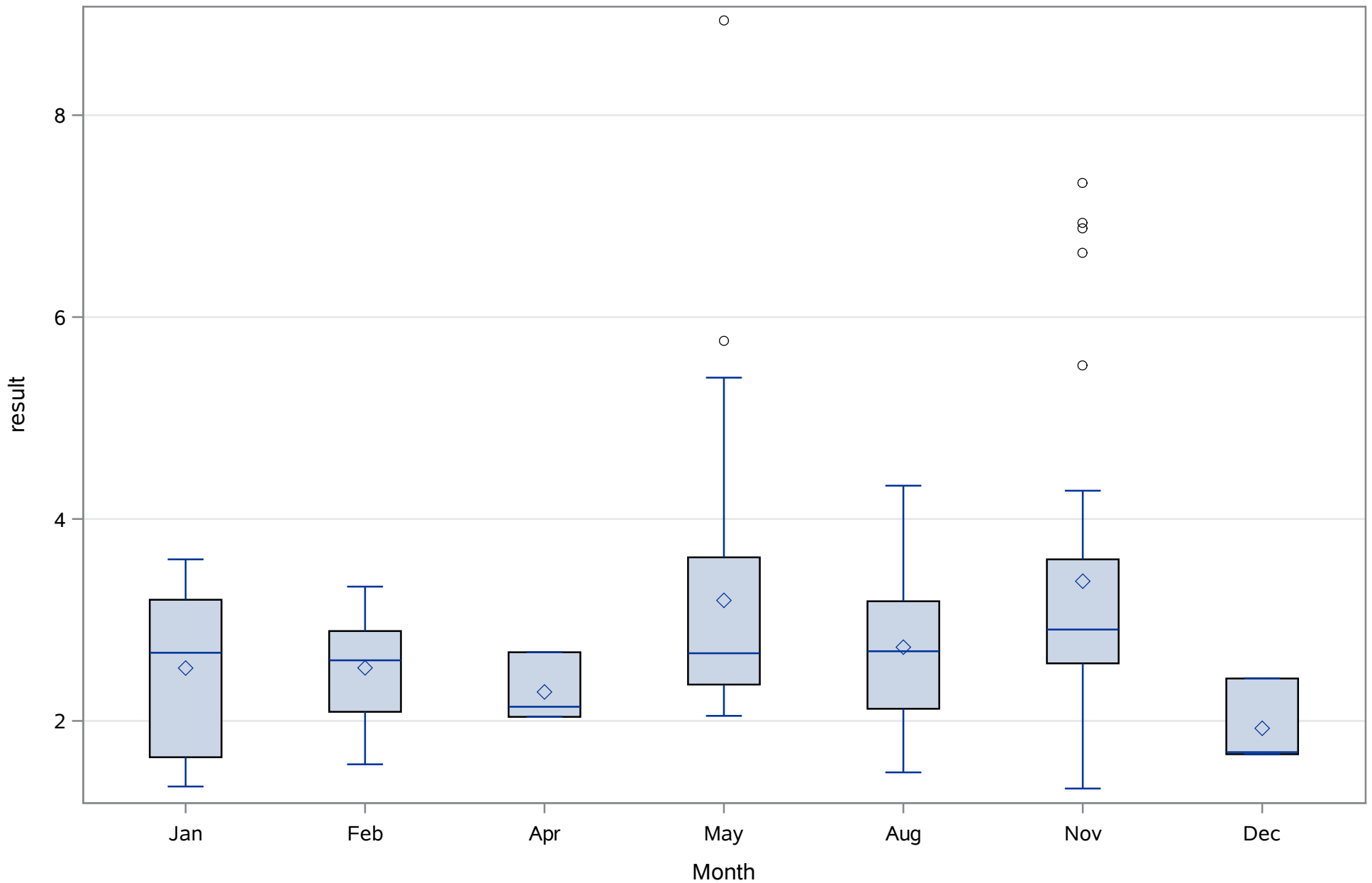
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NH4_ugl



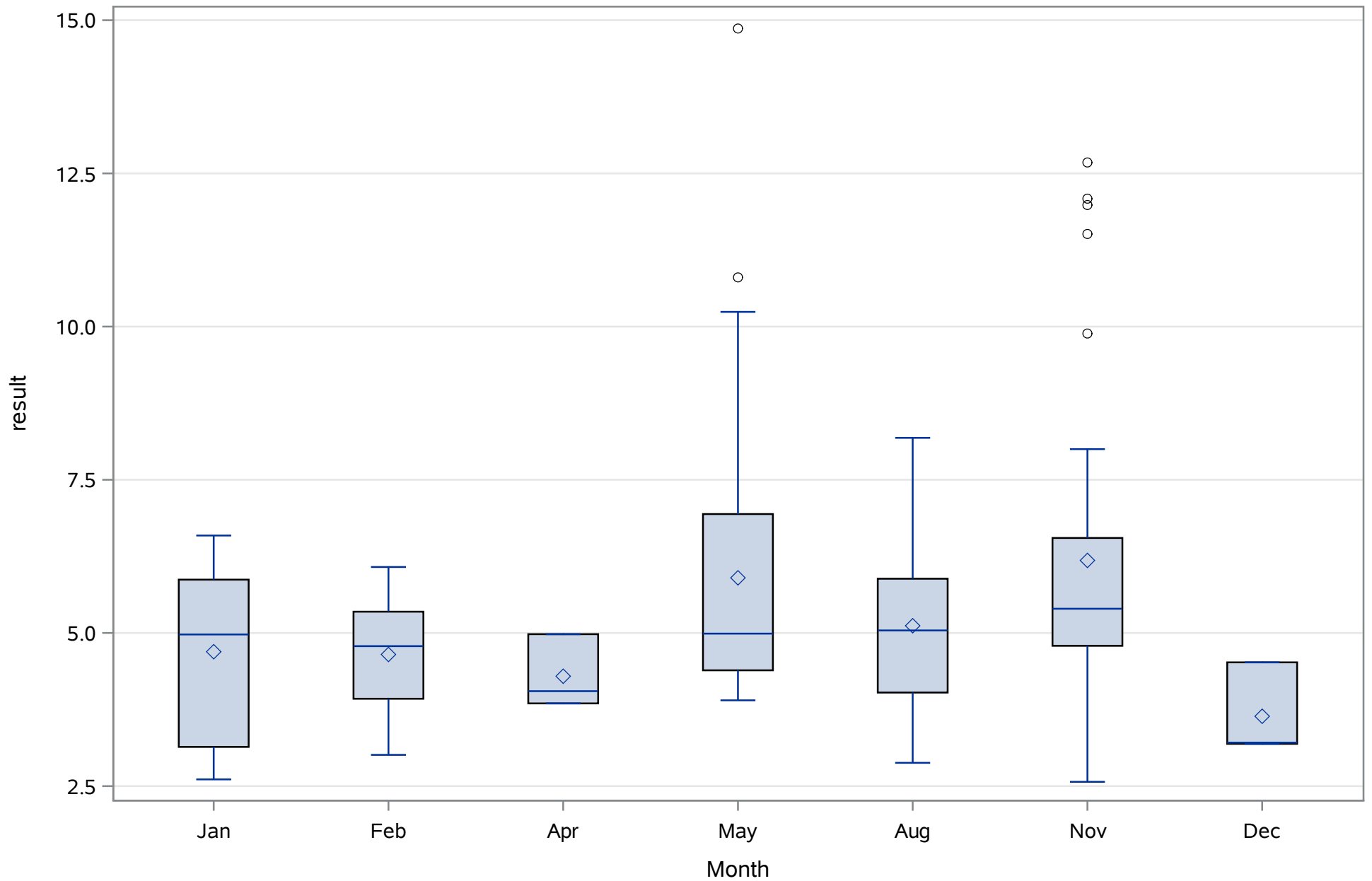
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
NO3_ugL



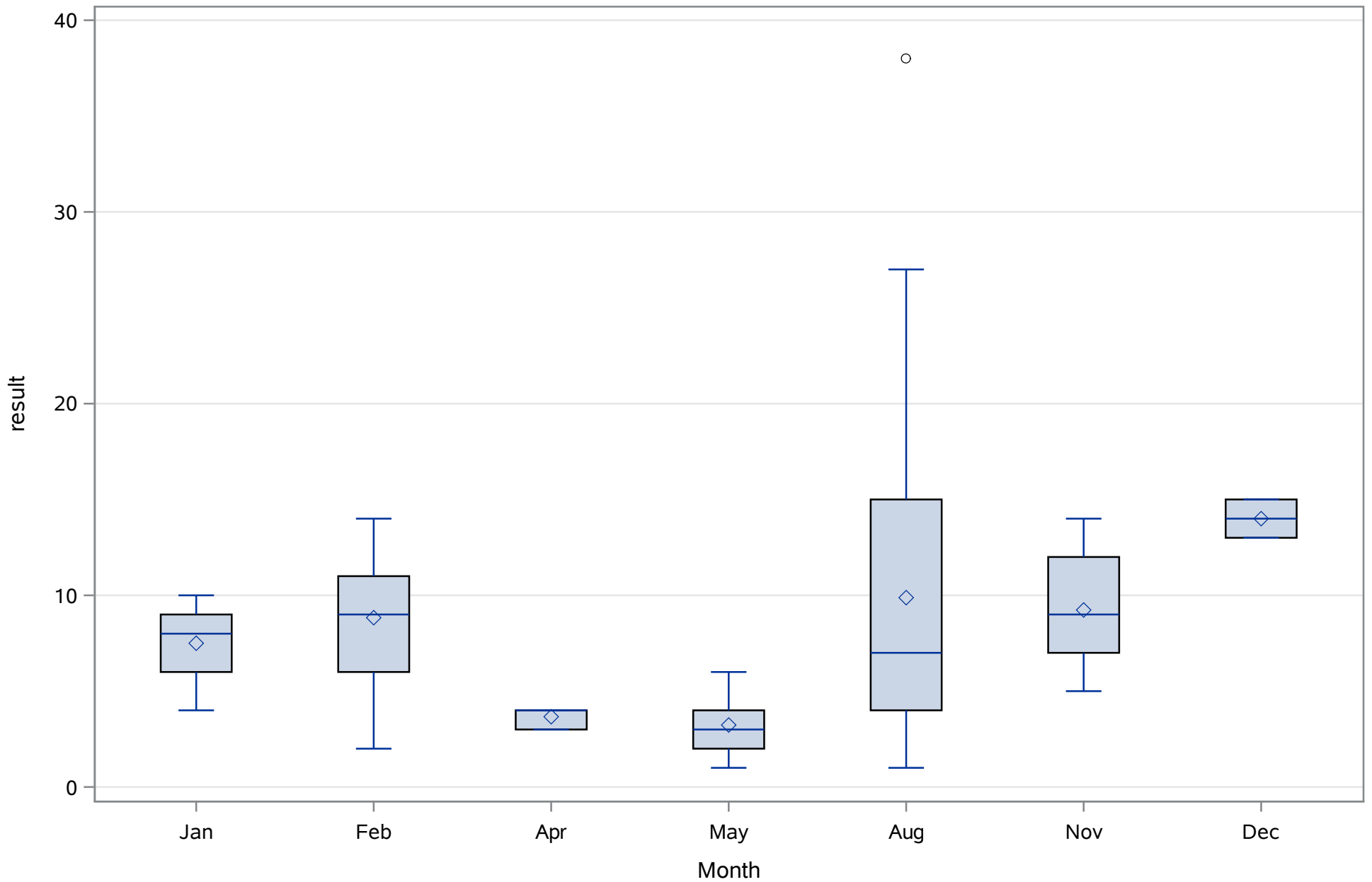
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SAL_Perc



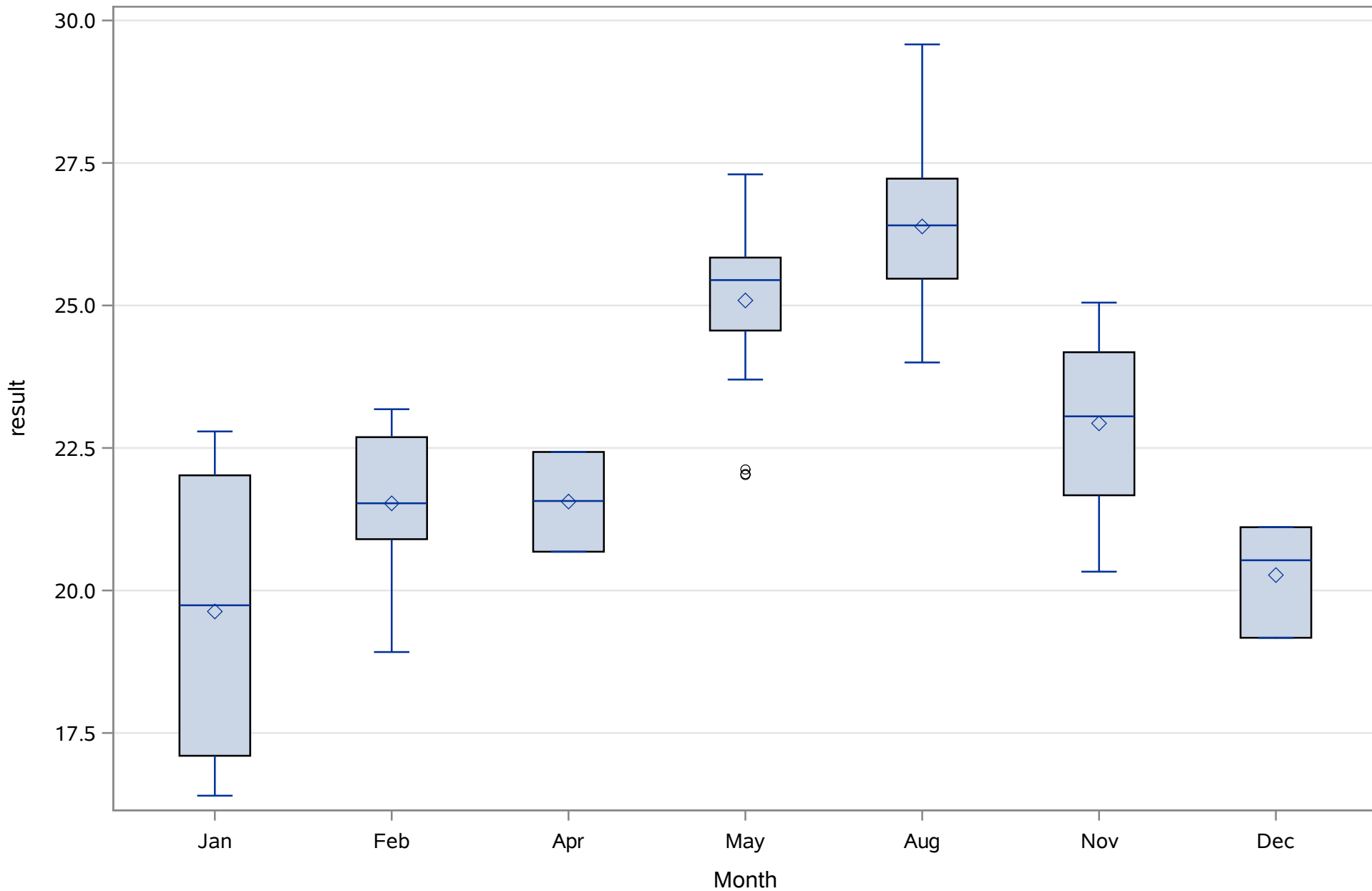
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SPCOND_mS_cm



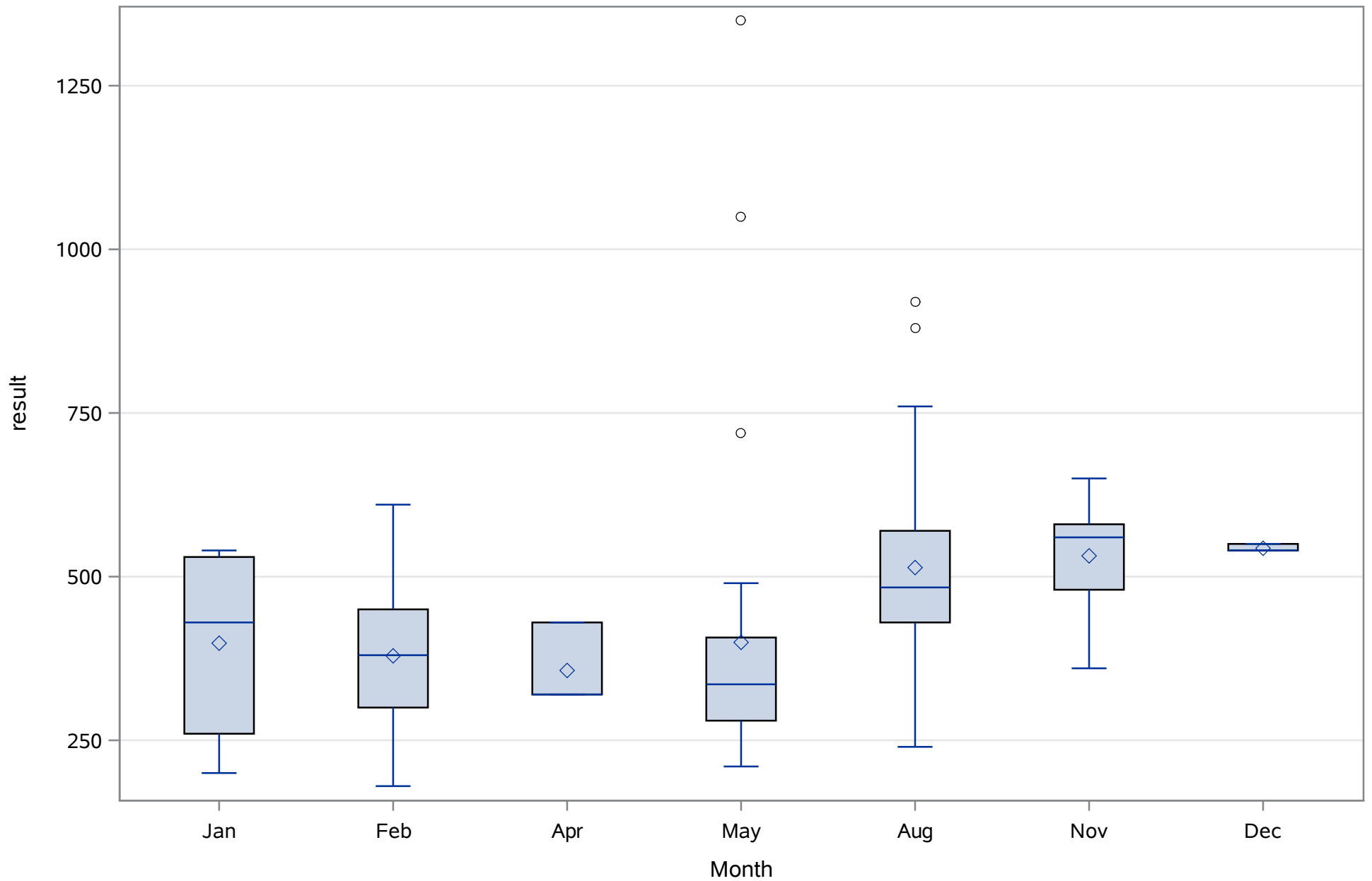
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
SRP_ugL



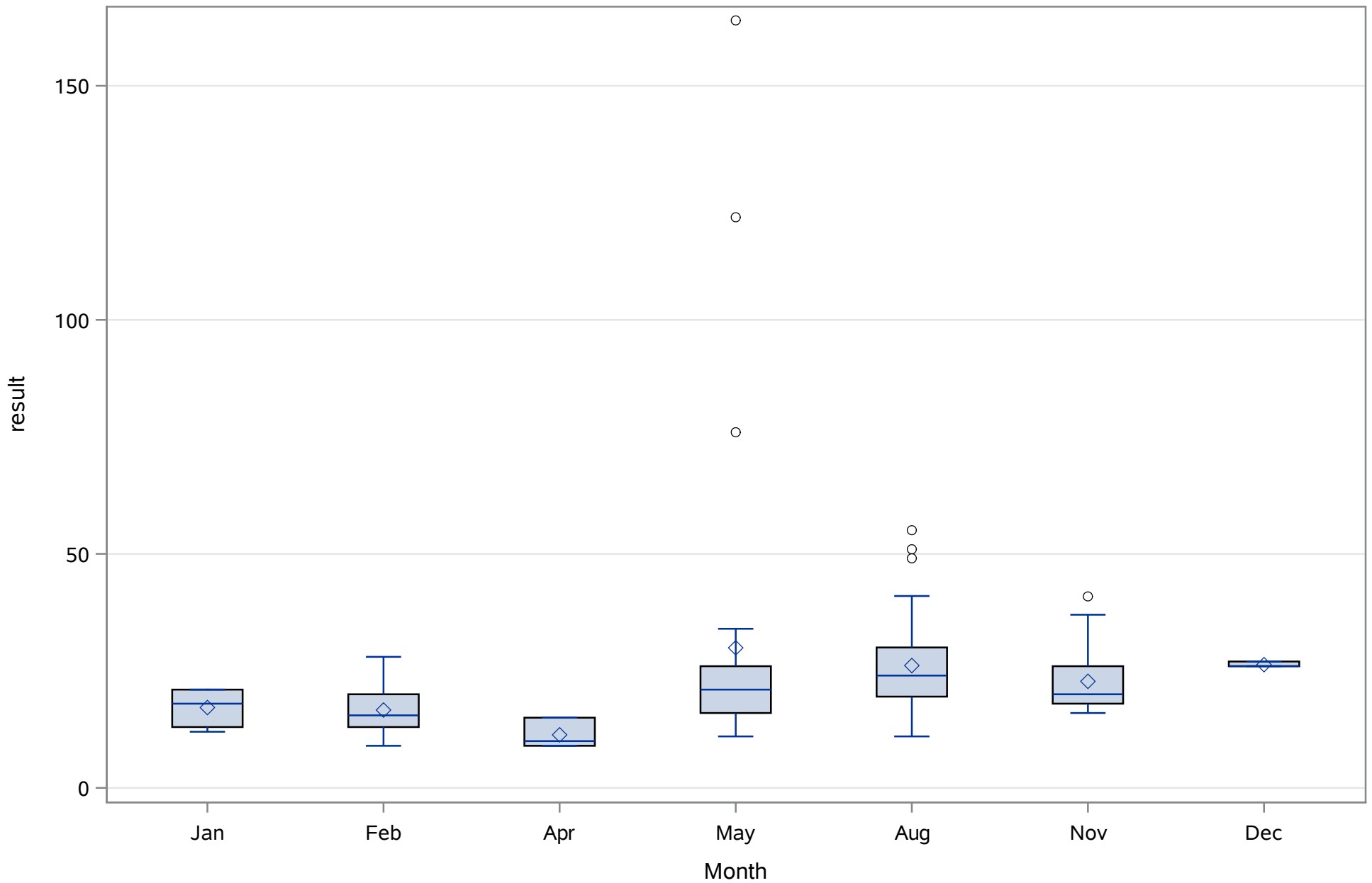
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TEMP_C



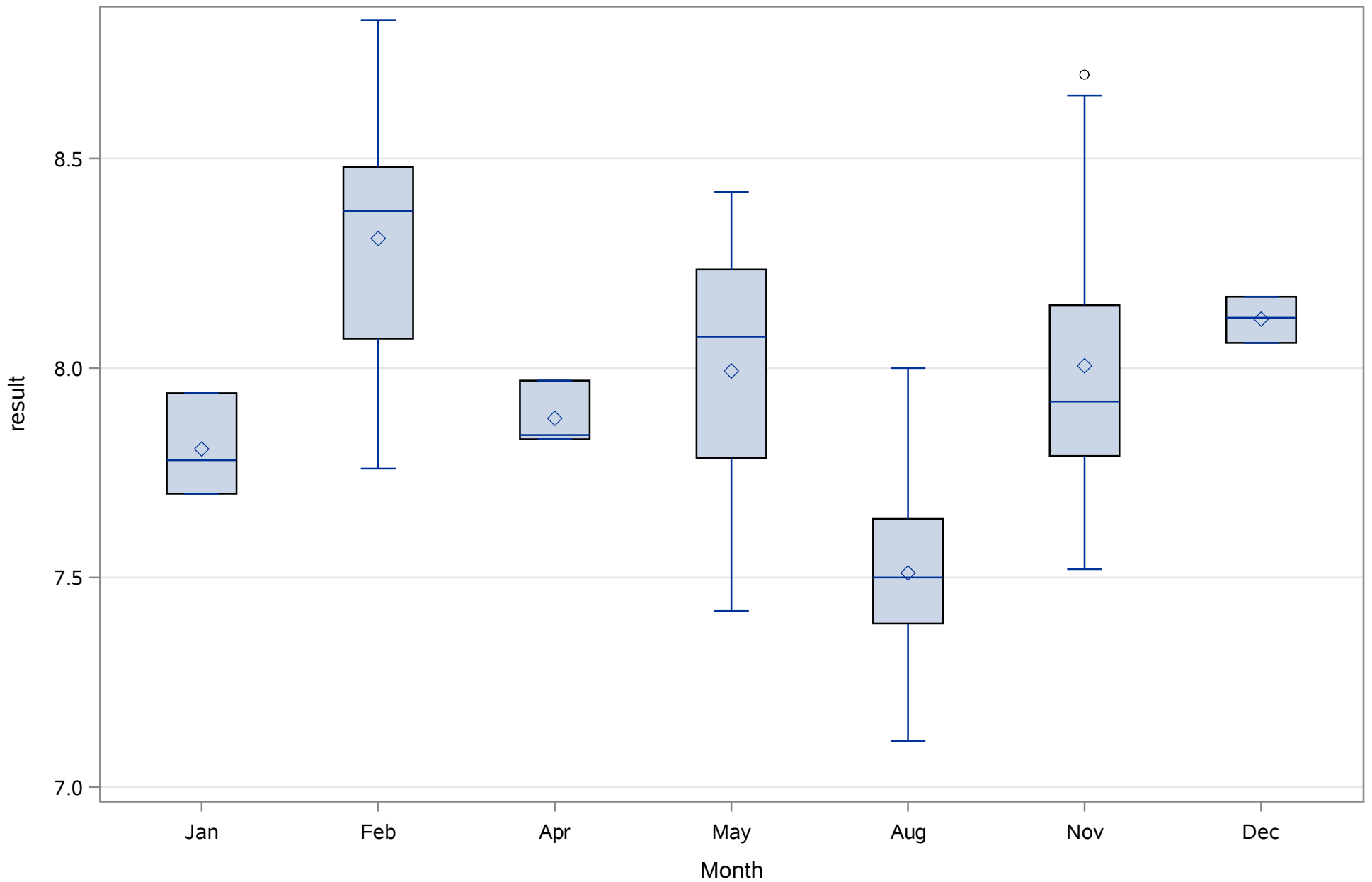
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 7
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	71	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	157.557971	Sum Observations	21743
Std Deviation	8.14738157	Variance	66.3798265
Skewness	0.34312272	Kurtosis	-0.5837473
Uncorrected SS	3434877	Corrected SS	9094.03623
Coeff Variation	5.17103738	Std Error Mean	0.69355118

Basic Statistical Measures			
Location		Variability	
Mean	157.5580	Std Deviation	8.14738
Median	157.0000	Variance	66.37983
Mode	149.0000	Range	36.00000
		Interquartile Range	15.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	227.1757	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	179
99%	179
95%	170
90%	168
75% Q3	165
50% Median	157
25% Q1	150
10%	148
5%	146
1%	144
0% Min	143

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
ALK_tot_mgL

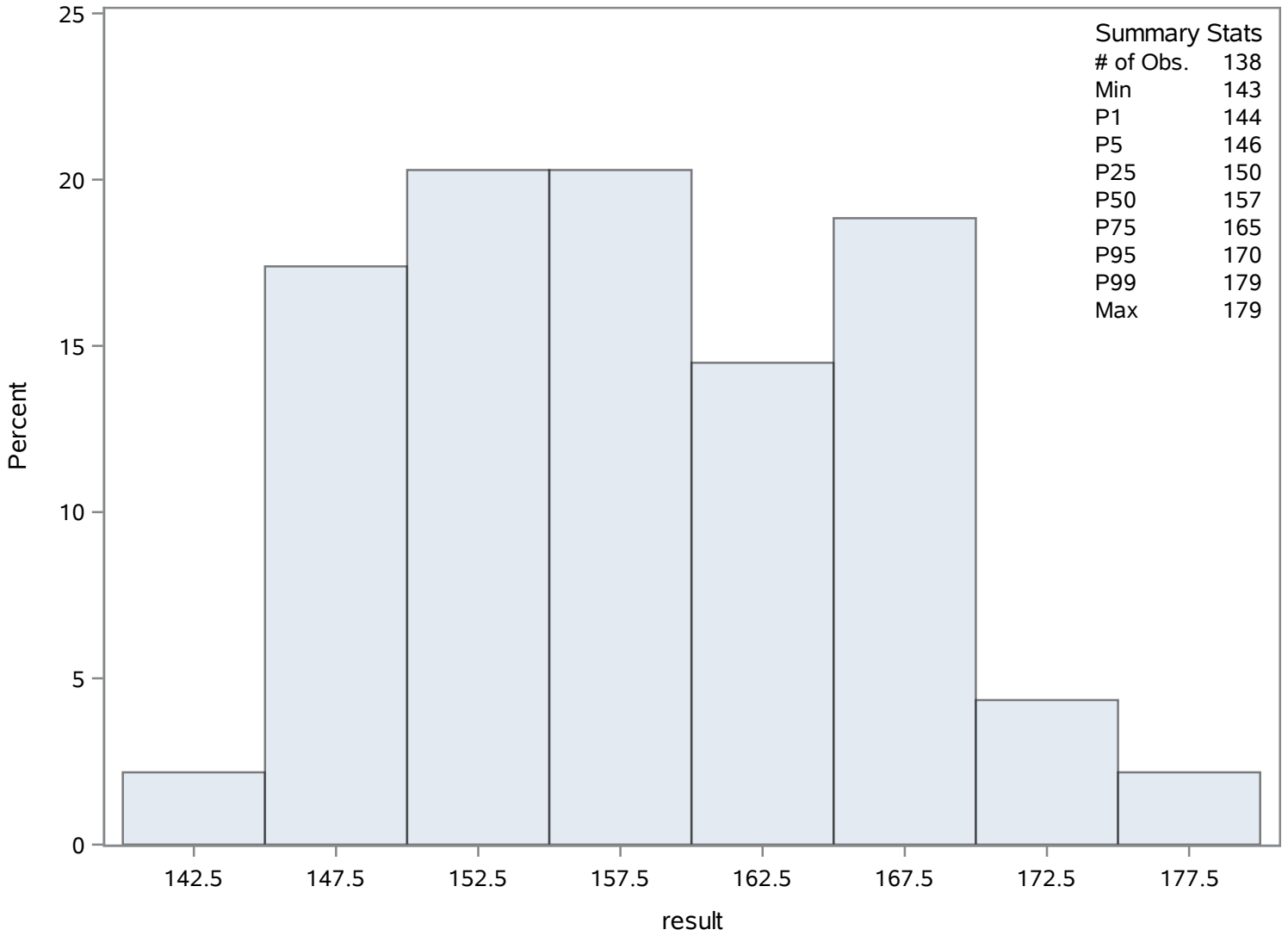
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
143	6	171	116
144	9	171	120
144	8	179	112
145	5	179	113
145	3	179	114

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	9.41345471	Sum Observations	1289.6433
Std Deviation	18.5980412	Variance	345.887135
Skewness	4.70231155	Kurtosis	23.7293113
Uncorrected SS	59180.6491	Corrected SS	47040.6503
Coeff Variation	197.568711	Std Error Mean	1.58893789

Basic Statistical Measures			
Location		Variability	
Mean	9.413455	Std Deviation	18.59804
Median	4.367816	Variance	345.88713
Mode	3.600000	Range	119.83000
		Interquartile Range	4.34943

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	5.924369	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	120.33000
99%	120.20000
95%	37.06000
90%	17.98000
75% Q3	7.20000
50% Median	4.36782
25% Q1	2.85057
10%	1.80000
5%	1.43000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

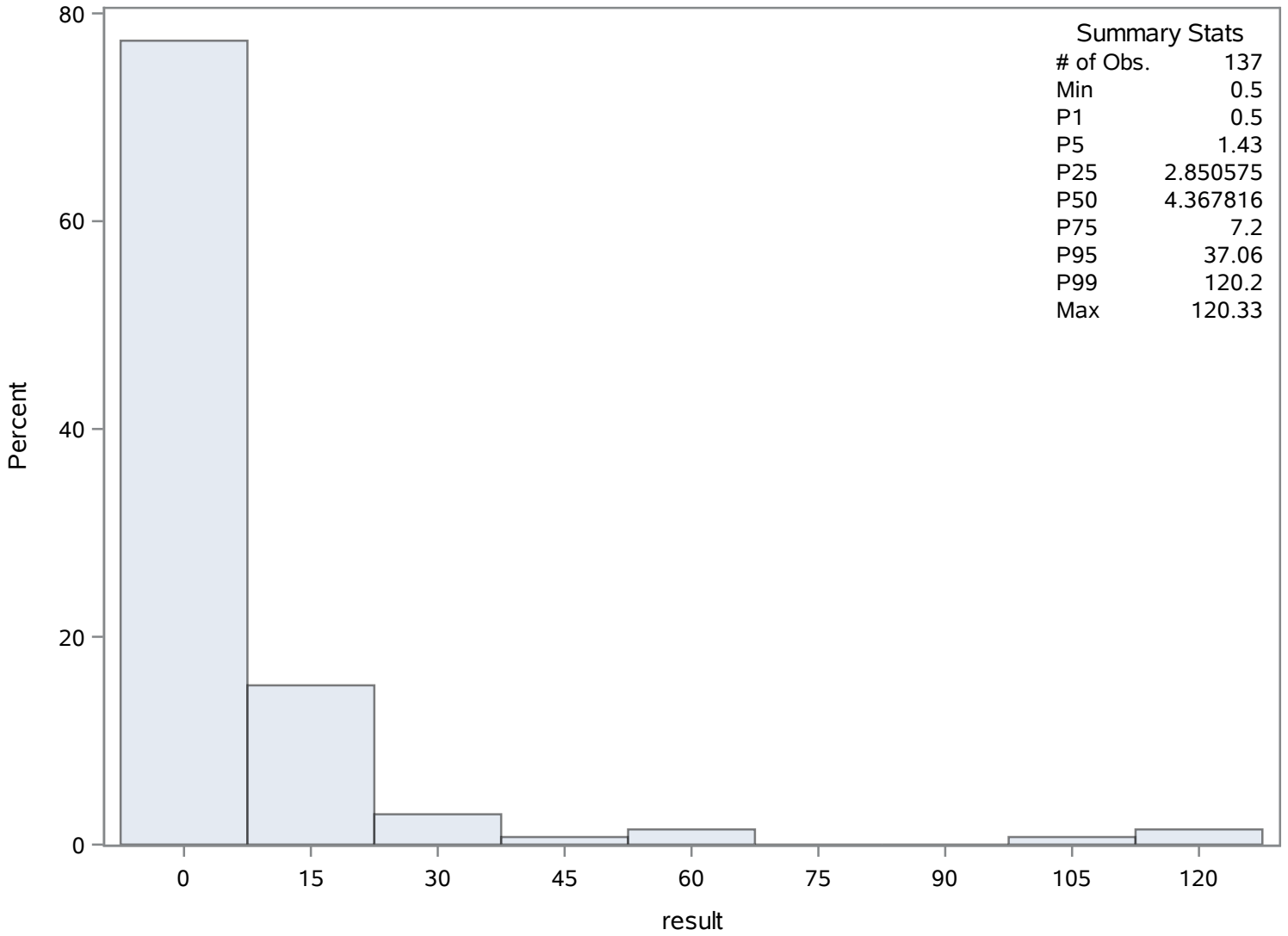
Quantiles (Definition 5)	
Level	Quantile
1%	0.50000
0% Min	0.50000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50000	203	58.06	263
0.50000	202	65.29	255
0.60000	204	108.70	139
0.69000	265	120.20	141
1.05747	229	120.33	262

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	71	Sum Weights	71
Mean	7.51757895	Sum Observations	533.748105
Std Deviation	16.4706541	Variance	271.282445
Skewness	4.64651122	Kurtosis	24.7903306
Uncorrected SS	23002.2647	Corrected SS	18989.7711
Coeff Variation	219.095192	Std Error Mean	1.95470701

Basic Statistical Measures			
Location		Variability	
Mean	7.517579	Std Deviation	16.47065
Median	2.234480	Variance	271.28244
Mode	2.120000	Range	111.38000
		Interquartile Range	4.19345

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	3.845885	Pr > t 	0.0003
Sign	M	35.5	Pr >= M 	<.0001
Signed Rank	S	1278	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	111.720000
99%	111.720000
95%	35.420000
90%	15.417912
75% Q3	5.590000
50% Median	2.234480
25% Q1	1.396550
10%	0.893792
5%	0.670000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

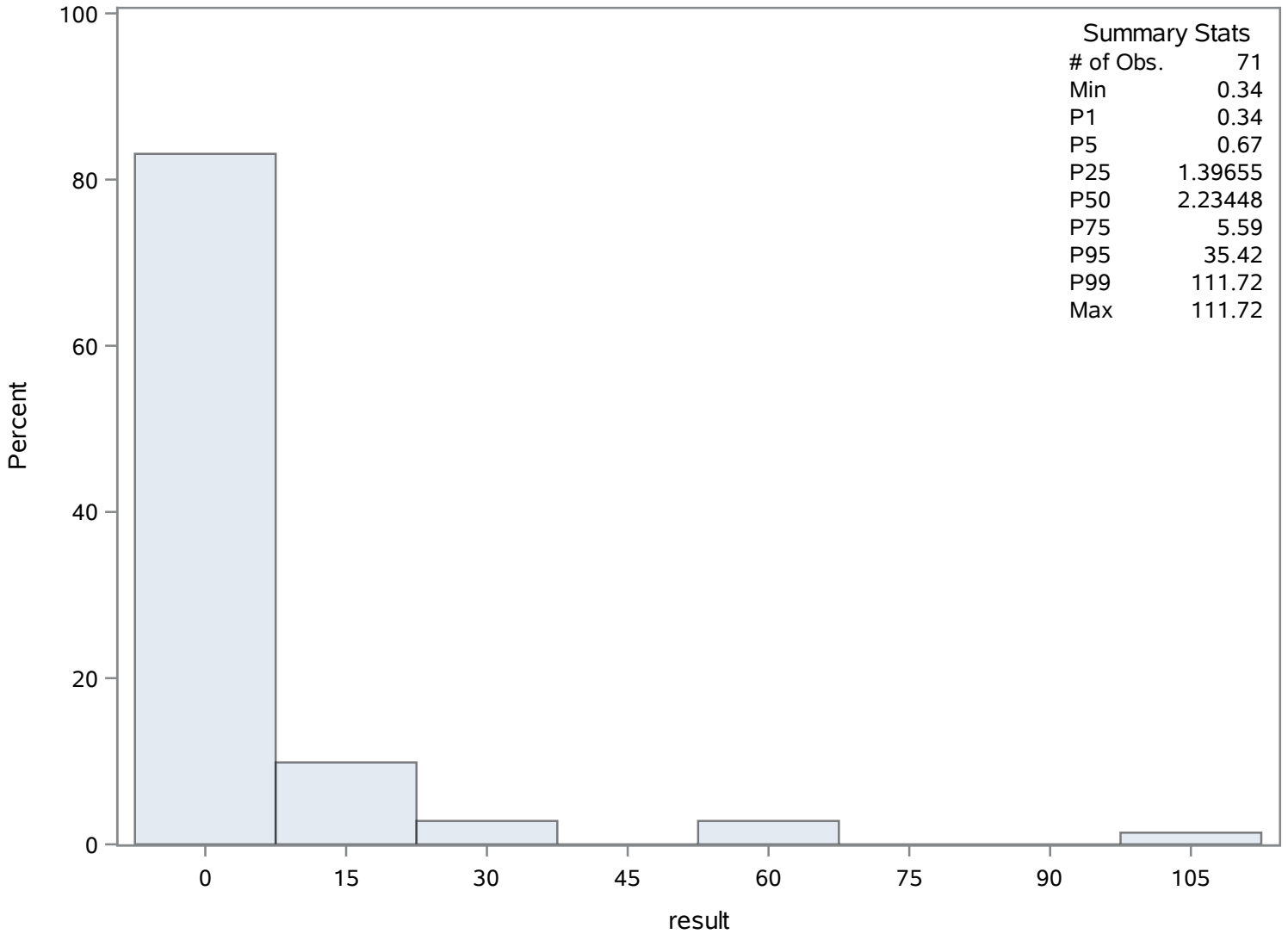
Quantiles (Definition 5)	
Level	Quantile
1%	0.340000
0% Min	0.340000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.34000	336	25.2496	282
0.55862	300	35.4200	328
0.67000	335	53.6300	334
0.67000	323	62.0100	326
0.78000	337	111.7200	333

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	13.2391304	Sum Observations	1827
Std Deviation	15.9165499	Variance	253.33656
Skewness	4.67963133	Kurtosis	24.8983566
Uncorrected SS	58895	Corrected SS	34707.1087
Coeff Variation	120.223529	Std Error Mean	1.3549067

Basic Statistical Measures			
Location		Variability	
Mean	13.23913	Std Deviation	15.91655
Median	10.00000	Variance	253.33656
Mode	7.00000	Range	106.00000
		Interquartile Range	8.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.771249	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	108
99%	108
95%	38
90%	20
75% Q3	14
50% Median	10
25% Q1	6
10%	4
5%	3
1%	3
0% Min	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
COLOR_PtCo

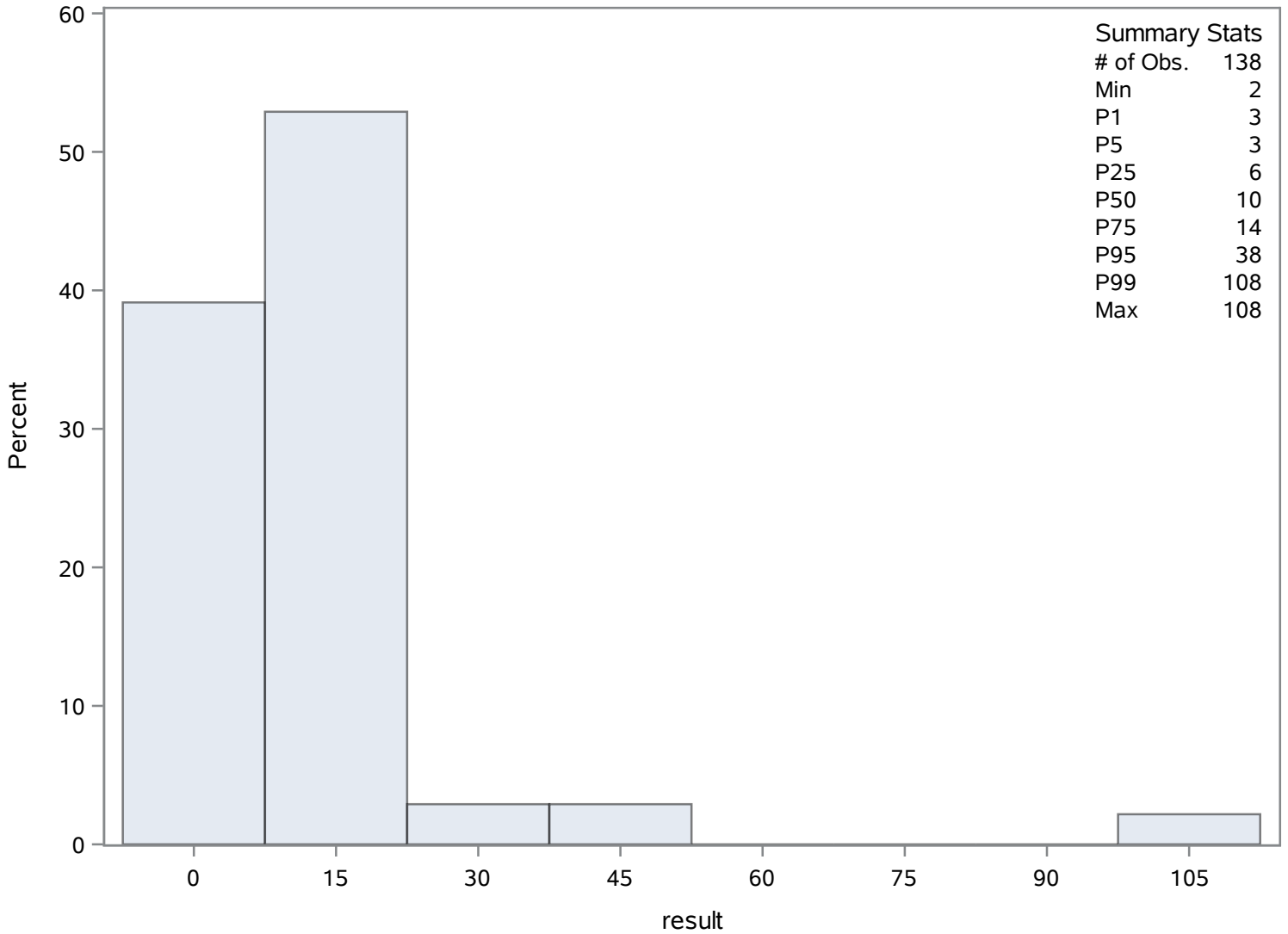
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	450	40	432
3	475	48	431
3	474	105	480
3	424	108	479
3	423	108	481

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.83282609	Sum Observations	1080.93
Std Deviation	3.3511068	Variance	11.2299168
Skewness	0.71542159	Kurtosis	0.3699321
Uncorrected SS	10005.2353	Corrected SS	1538.4986
Coeff Variation	42.7828572	Std Error Mean	0.28526515

Basic Statistical Measures			
Location		Variability	
Mean	7.832826	Std Deviation	3.35111
Median	7.125000	Variance	11.22992
Mode	7.120000	Range	15.84000
		Interquartile Range	4.04000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	27.45805	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	17.840
99%	16.820
95%	15.230
90%	12.200
75% Q3	9.540
50% Median	7.125
25% Q1	5.500
10%	3.900
5%	2.740
1%	2.100
0% Min	2.000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
DO_mgL

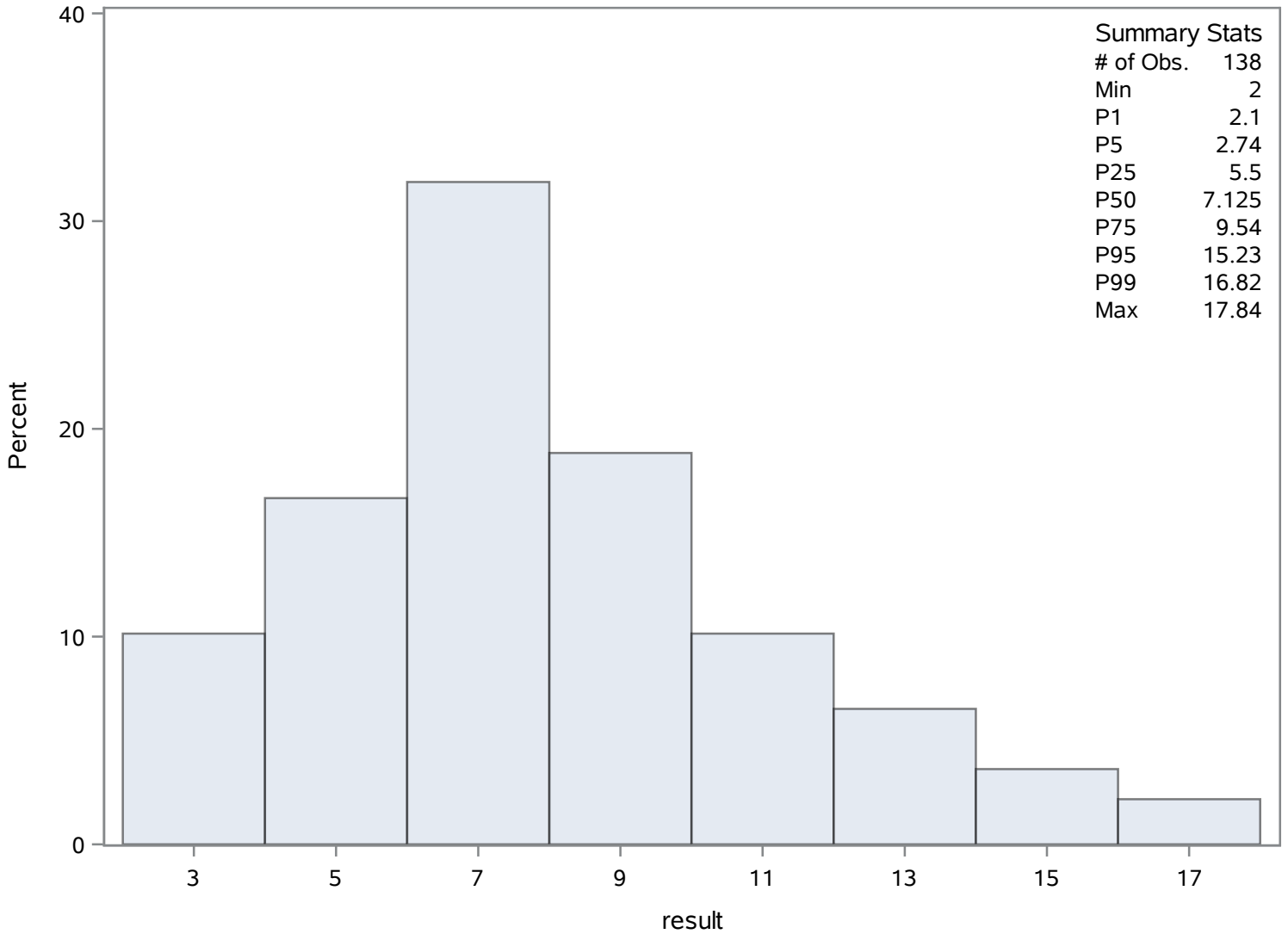
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.0	495	15.50	492
2.1	494	15.90	493
2.3	617	16.56	575
2.3	509	16.82	588
2.4	511	17.84	577

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	30.0686131	Sum Observations	4119.4
Std Deviation	17.9961219	Variance	323.860405
Skewness	1.19368111	Kurtosis	1.55382575
Uncorrected SS	167909.66	Corrected SS	44045.015
Coeff Variation	59.8501895	Std Error Mean	1.53751246

Basic Statistical Measures			
Location		Variability	
Mean	30.06861	Std Deviation	17.99612
Median	26.00000	Variance	323.86040
Mode	21.00000	Range	90.00000
		Interquartile Range	23.40000

Note: The mode displayed is the smallest of 4 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.55666	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	94.0
99%	90.0
95%	63.0
90%	54.0
75% Q3	40.0
50% Median	26.0
25% Q1	16.6
10%	12.0
5%	10.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NH4_ugl

The UNIVARIATE Procedure
Variable: result

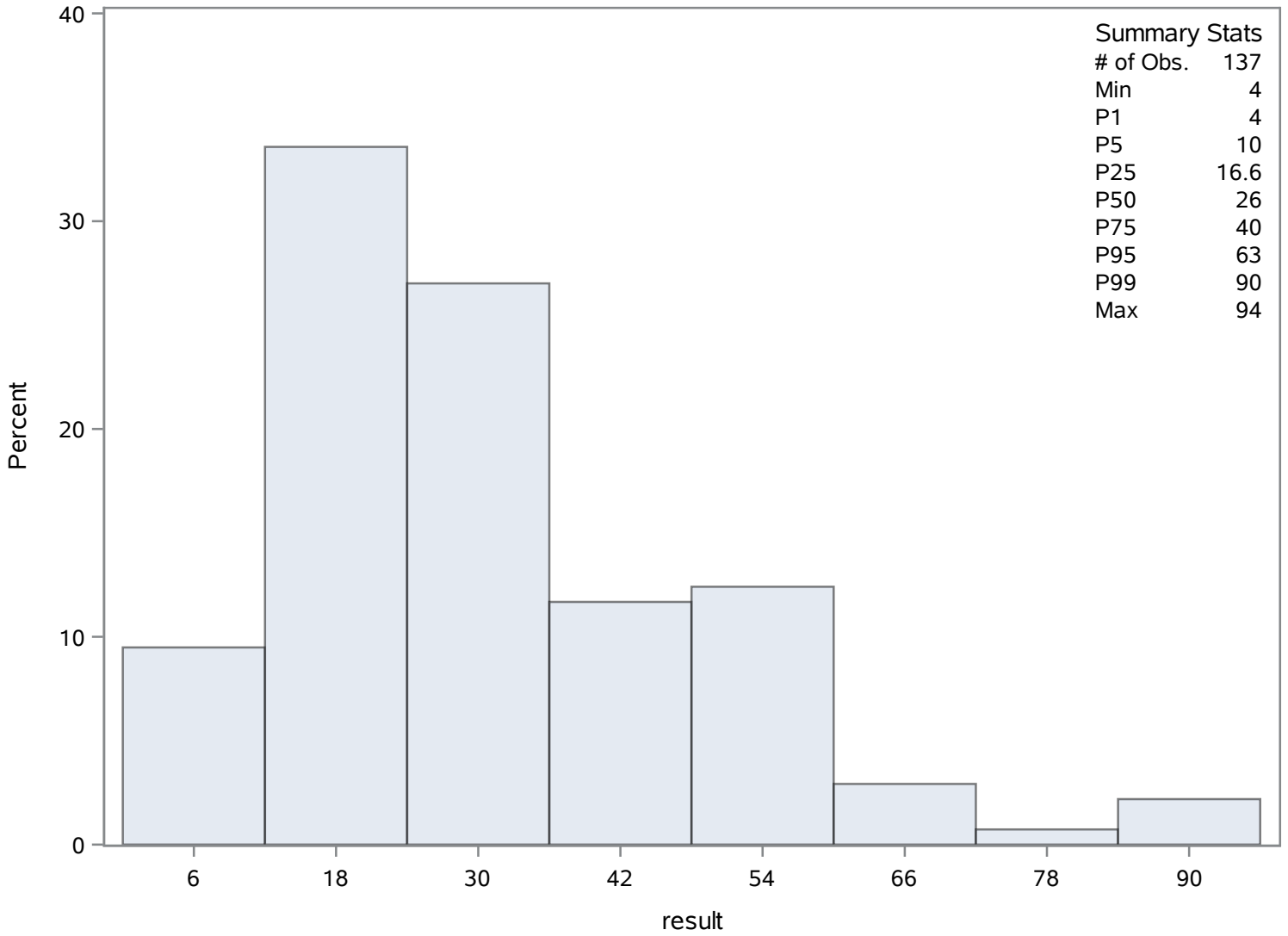
Quantiles (Definition 5)	
Level	Quantile
1%	4.0
0% Min	4.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	688	71	756
4	665	74	741
6	687	89	755
6	672	90	753
6	666	94	754

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	213.528986	Sum Observations	29467
Std Deviation	125.61103	Variance	15778.1308
Skewness	-0.055358	Kurtosis	-1.2249111
Uncorrected SS	8453662.54	Corrected SS	2161603.92
Coeff Variation	58.8262196	Std Error Mean	10.692721

Basic Statistical Measures			
Location		Variability	
Mean	213.5290	Std Deviation	125.61103
Median	228.5000	Variance	15778
Mode	50.0000	Range	449.00000
		Interquartile Range	228.00000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.96956	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	456.0
99%	439.0
95%	408.0
90%	386.0
75% Q3	320.0
50% Median	228.5
25% Q1	92.0
10%	47.0
5%	26.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NO3_ugL

The UNIVARIATE Procedure
Variable: result

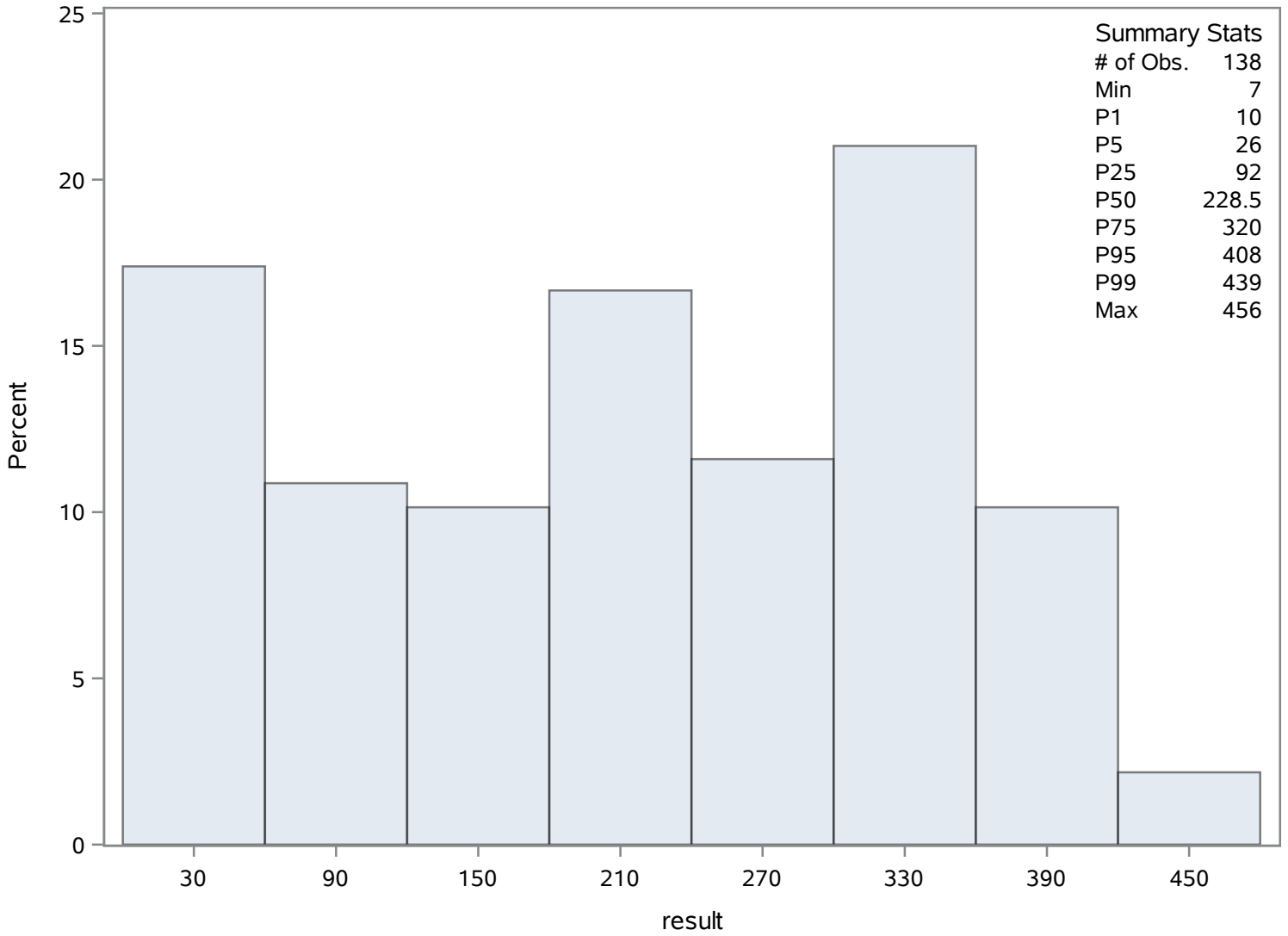
Quantiles (Definition 5)	
Level	Quantile
1%	10.0
0% Min	7.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	783	411	812
10	879	411	896
10	877	425	895
13	863	439	897
16	782	456	835

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	3.00862319	Sum Observations	415.19
Std Deviation	1.45683047	Variance	2.12235502
Skewness	2.4158365	Kurtosis	6.74168818
Uncorrected SS	1539.9129	Corrected SS	290.762638
Coeff Variation	48.4218322	Std Error Mean	0.12401365

Basic Statistical Measures			
Location		Variability	
Mean	3.008623	Std Deviation	1.45683
Median	2.680000	Variance	2.12236
Mode	1.730000	Range	8.07000
		Interquartile Range	0.99000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.26042	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.46
99%	8.81
95%	7.16
90%	4.08
75% Q3	3.24
50% Median	2.68
25% Q1	2.25
10%	1.73
5%	1.54

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SAL_Perc

The UNIVARIATE Procedure
Variable: result

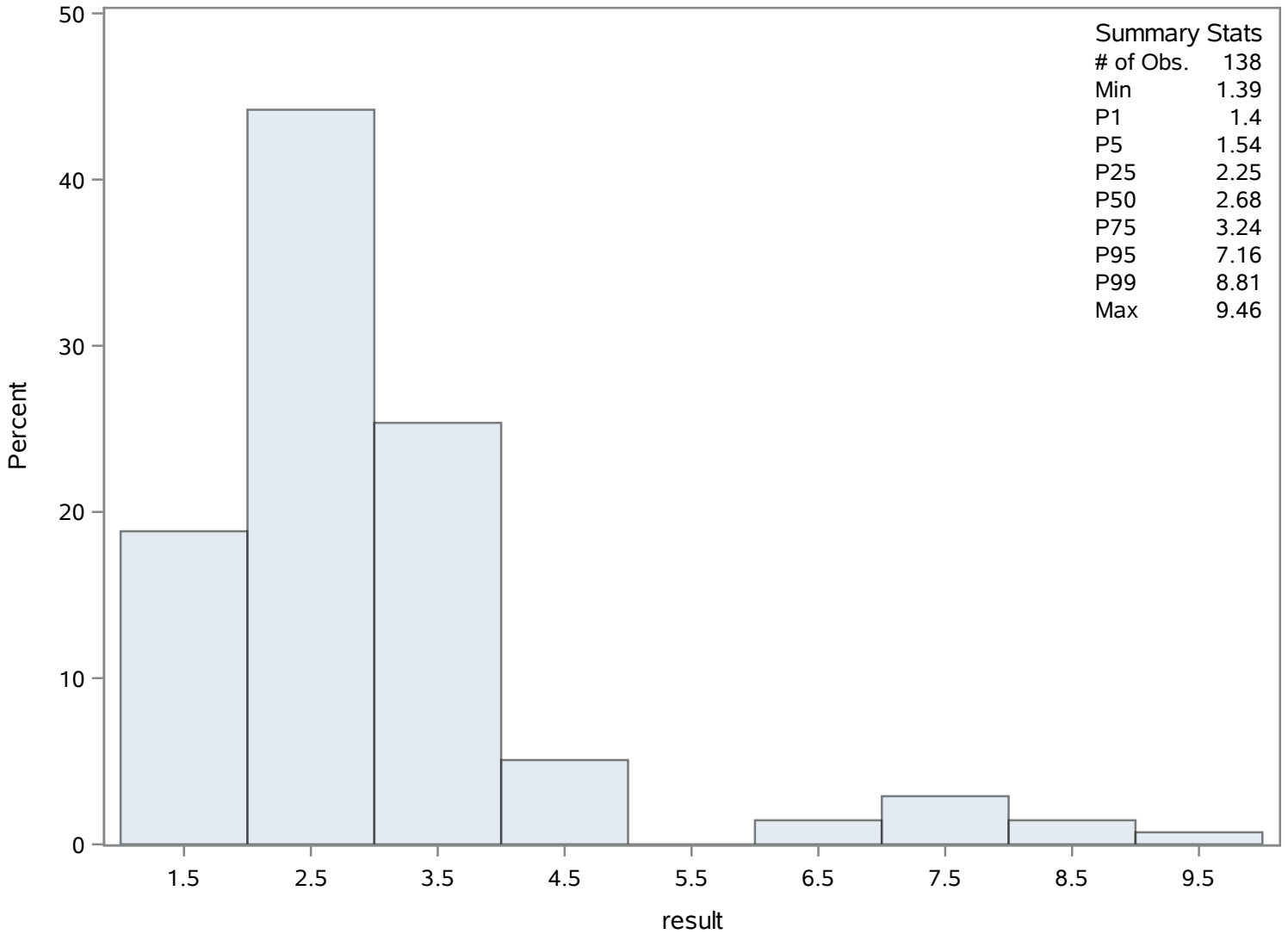
Quantiles (Definition 5)	
Level	Quantile
1%	1.40
0% Min	1.39

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.39	953	7.73	937
1.40	936	7.78	1011
1.43	960	8.61	939
1.46	954	8.81	981
1.52	951	9.46	938

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	5.54021739	Sum Observations	764.55
Std Deviation	2.50144398	Variance	6.25722197
Skewness	2.33706216	Kurtosis	6.41101189
Uncorrected SS	5093.01262	Corrected SS	857.239409
Coeff Variation	45.1506466	Std Error Mean	0.21293705

Basic Statistical Measures			
Location		Variability	
Mean	5.540217	Std Deviation	2.50144
Median	5.057500	Variance	6.25722
Mode	3.290000	Range	13.25000
		Interquartile Range	1.78500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.0181	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.9400
99%	15.7500
95%	12.4600
90%	7.8060
75% Q3	5.9330
50% Median	5.0575
25% Q1	4.1480
10%	3.2900
5%	2.9600
1%	2.7200
0% Min	2.6900

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SPCOND_mS_cm

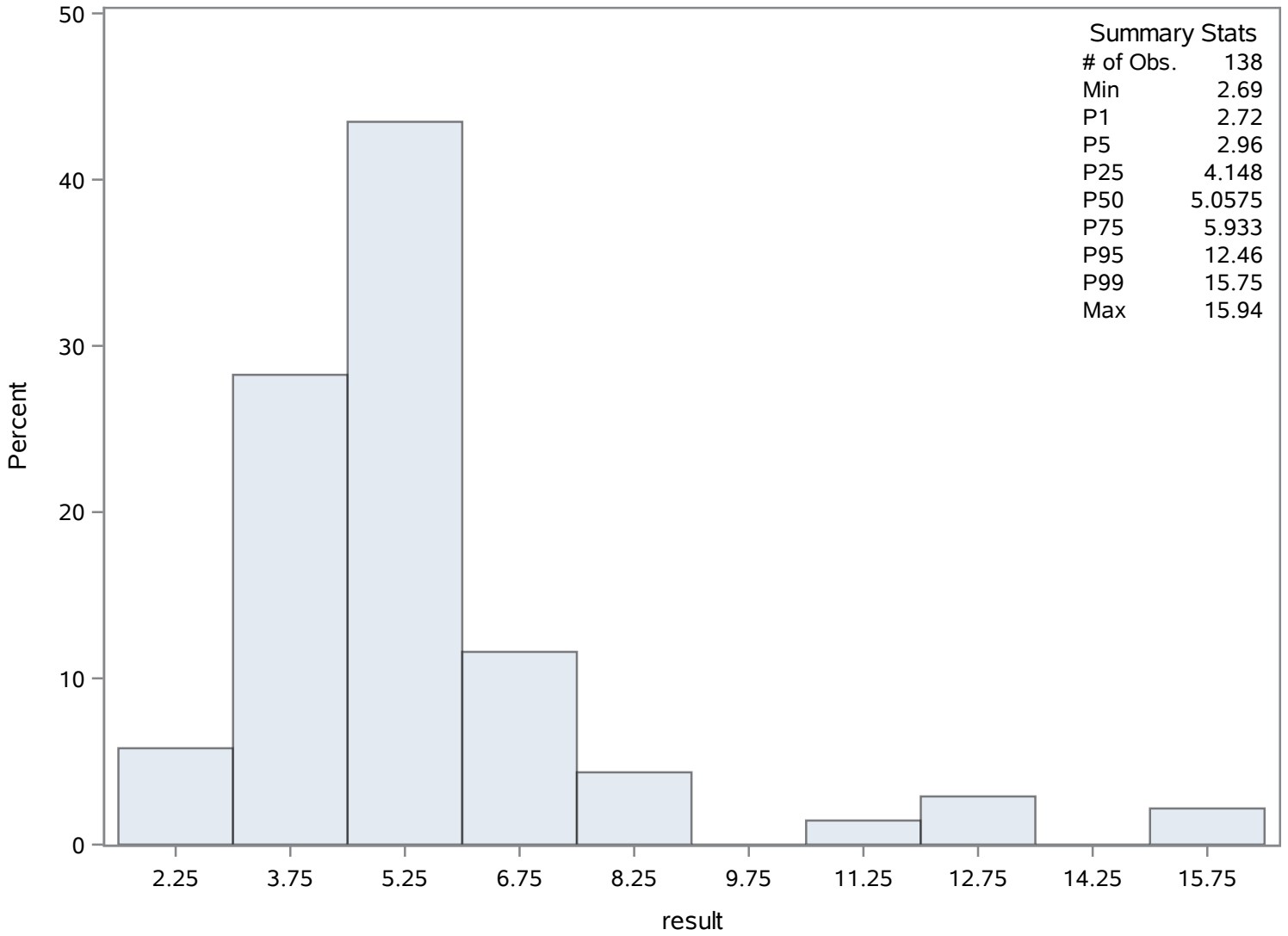
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.690	1091	13.40	1075
2.720	1074	13.46	1149
2.790	1098	15.73	1119
2.810	1092	15.75	1076
2.938	1102	15.94	1077

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	8.08888889	Sum Observations	1092
Std Deviation	5.5657088	Variance	30.9771144
Skewness	1.43708686	Kurtosis	2.89610955
Uncorrected SS	12984	Corrected SS	4150.93333
Coeff Variation	68.8068395	Std Error Mean	0.47901994

Basic Statistical Measures			
Location		Variability	
Mean	8.088889	Std Deviation	5.56571
Median	7.000000	Variance	30.97711
Mode	6.000000	Range	31.00000
		Interquartile Range	7.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.88633	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32
99%	26
95%	19
90%	15
75% Q3	11
50% Median	7
25% Q1	4
10%	2
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SRP_ugL

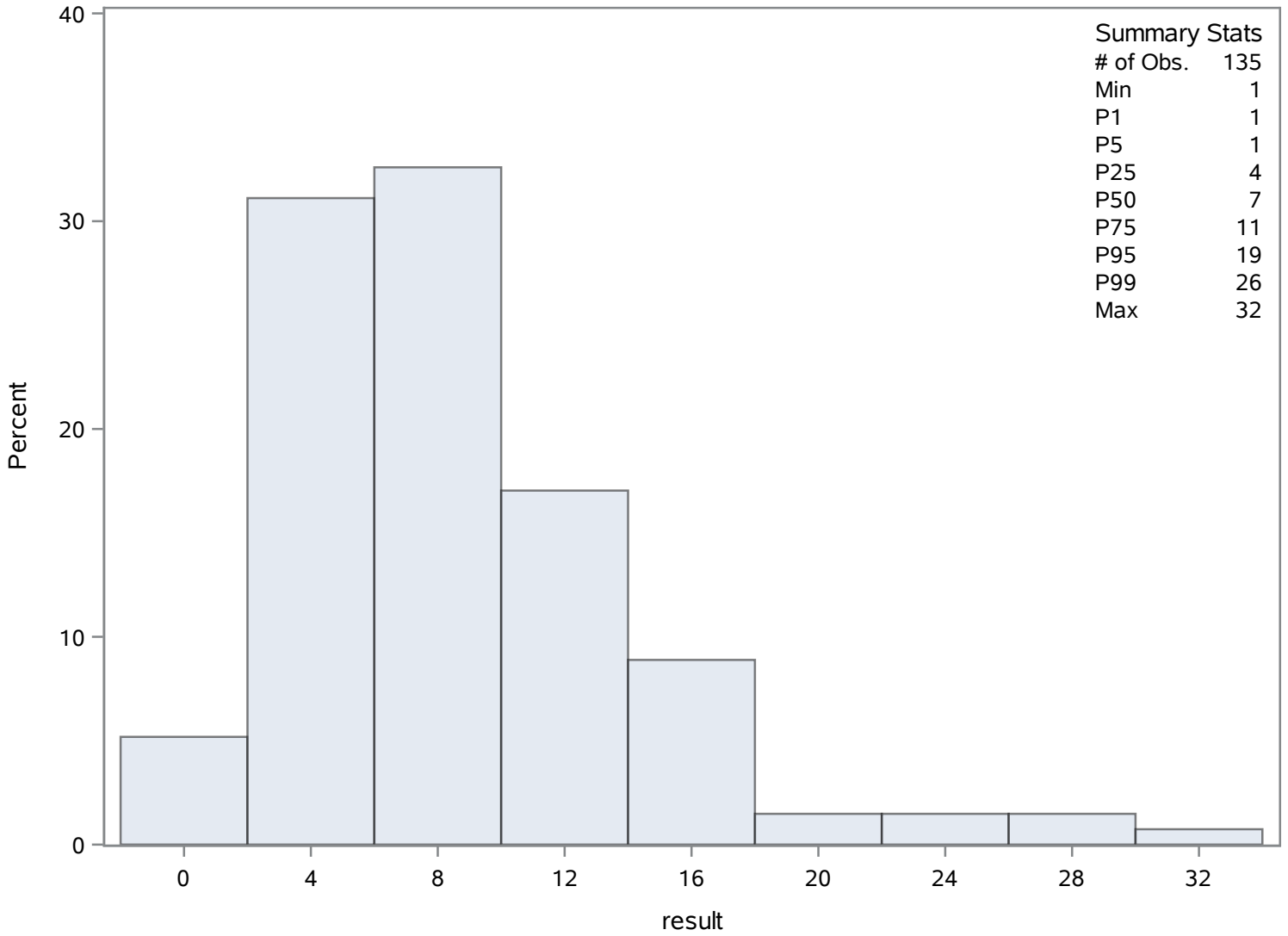
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1245	22	1287
1	1244	23	1291
1	1243	26	1303
1	1231	26	1305
1	1217	32	1304

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.7218841	Sum Observations	3273.62
Std Deviation	2.71577107	Variance	7.37541248
Skewness	-0.0113428	Kurtosis	-0.7666194
Uncorrected SS	78666.8656	Corrected SS	1010.43151
Coeff Variation	11.4483785	Std Error Mean	0.23118179

Basic Statistical Measures			
Location		Variability	
Mean	23.72188	Std Deviation	2.71577
Median	23.94000	Variance	7.37541
Mode	24.30000	Range	12.25000
		Interquartile Range	4.48000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	102.6114	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.05
99%	28.83
95%	28.24
90%	27.20
75% Q3	25.88
50% Median	23.94
25% Q1	21.40
10%	20.24
5%	19.18

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TEMP_C

The UNIVARIATE Procedure
Variable: result

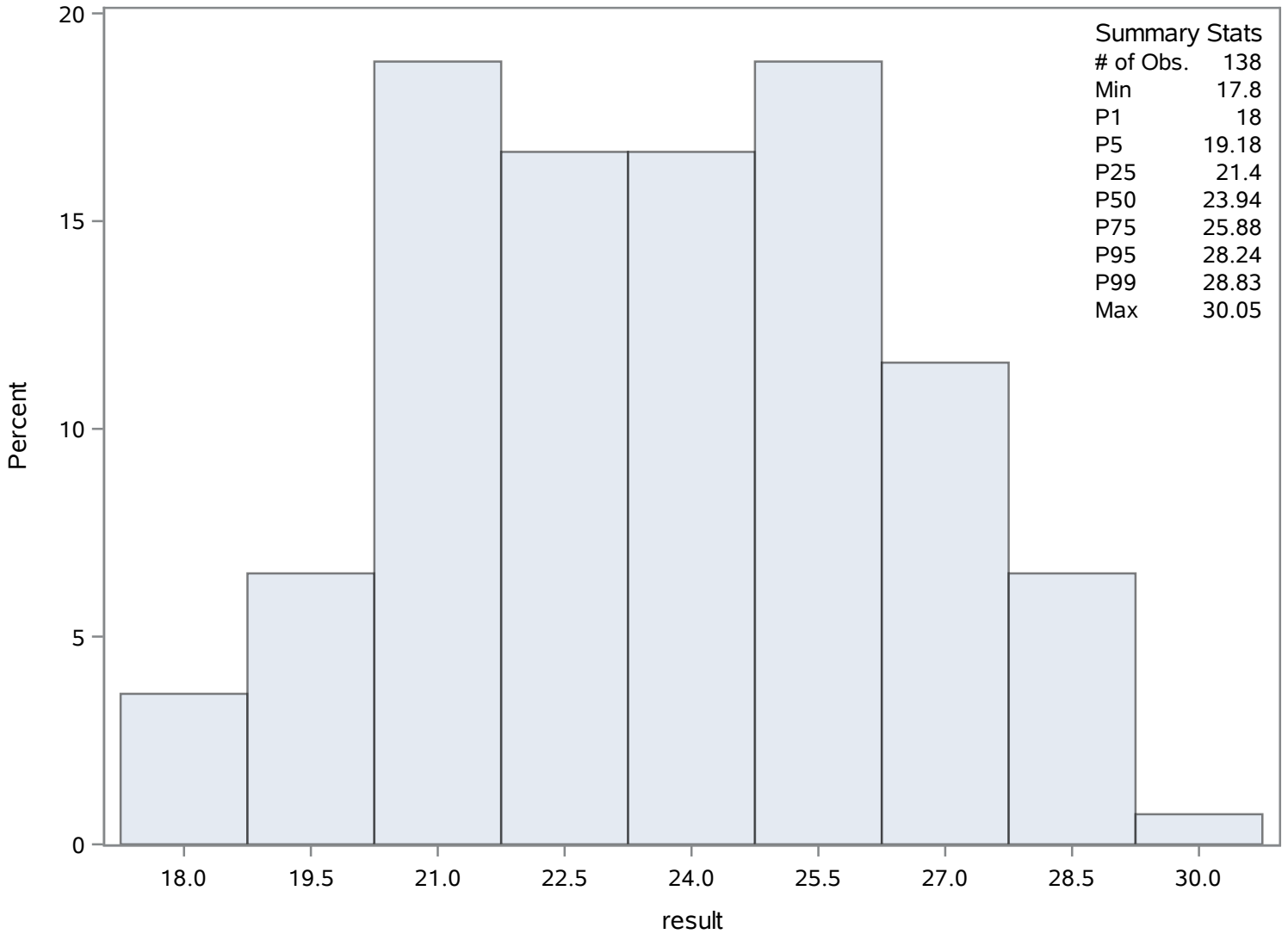
Quantiles (Definition 5)	
Level	Quantile
1%	18.00
0% Min	17.80

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17.80	1336	28.48	1405
18.00	1338	28.60	1395
18.10	1424	28.83	1407
18.43	1423	28.83	1417
18.67	1425	30.05	1393

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	457.124088	Sum Observations	62626
Std Deviation	162.69366	Variance	26469.2271
Skewness	0.72814582	Kurtosis	0.4472258
Uncorrected SS	32227668	Corrected SS	3599814.89
Coeff Variation	35.5906995	Std Error Mean	13.8998575

Basic Statistical Measures			
Location		Variability	
Mean	457.1241	Std Deviation	162.69366
Median	460.0000	Variance	26469
Mode	330.0000	Range	760.00000
		Interquartile Range	210.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.88696	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	940
99%	910
95%	820
90%	680
75% Q3	540
50% Median	460
25% Q1	330
10%	250
5%	230
1%	220
0% Min	180

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TN_ugl

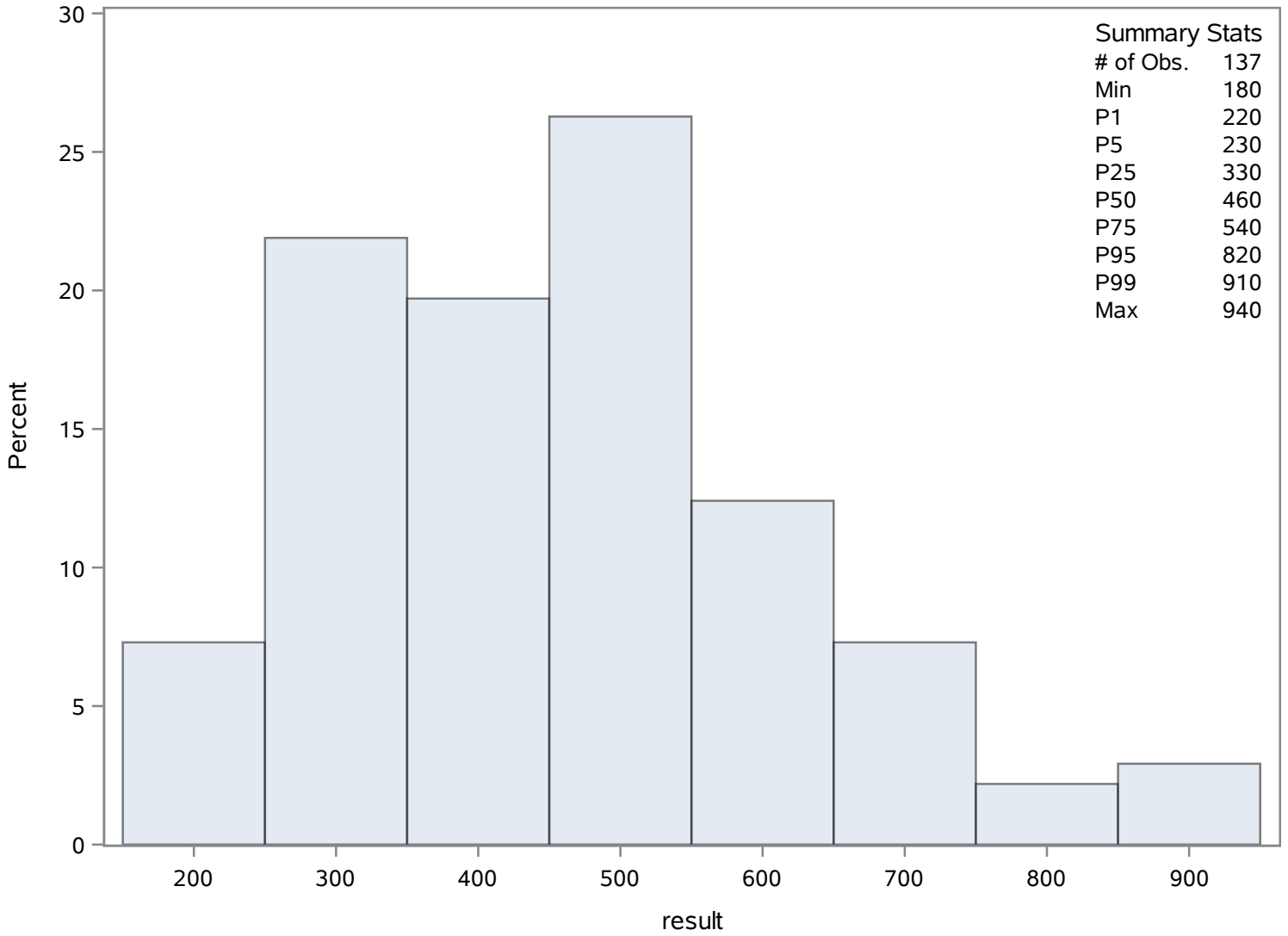
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
180	1577	840	1581
220	1514	890	1579
220	1480	900	1578
220	1467	910	1447
220	1466	940	1580

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.5289855	Sum Observations	3247
Std Deviation	10.1429146	Variance	102.878716
Skewness	1.71452752	Kurtosis	4.13929996
Uncorrected SS	90493	Corrected SS	14094.3841
Coeff Variation	43.1081678	Std Error Mean	0.86342223

Basic Statistical Measures			
Location		Variability	
Mean	23.52899	Std Deviation	10.14291
Median	22.00000	Variance	102.87872
Mode	16.00000	Range	54.00000
		Interquartile Range	11.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	27.25085	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	64
99%	63
95%	44
90%	35
75% Q3	27
50% Median	22
25% Q1	16
10%	13
5%	12
1%	10
0% Min	10

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TP_ugl

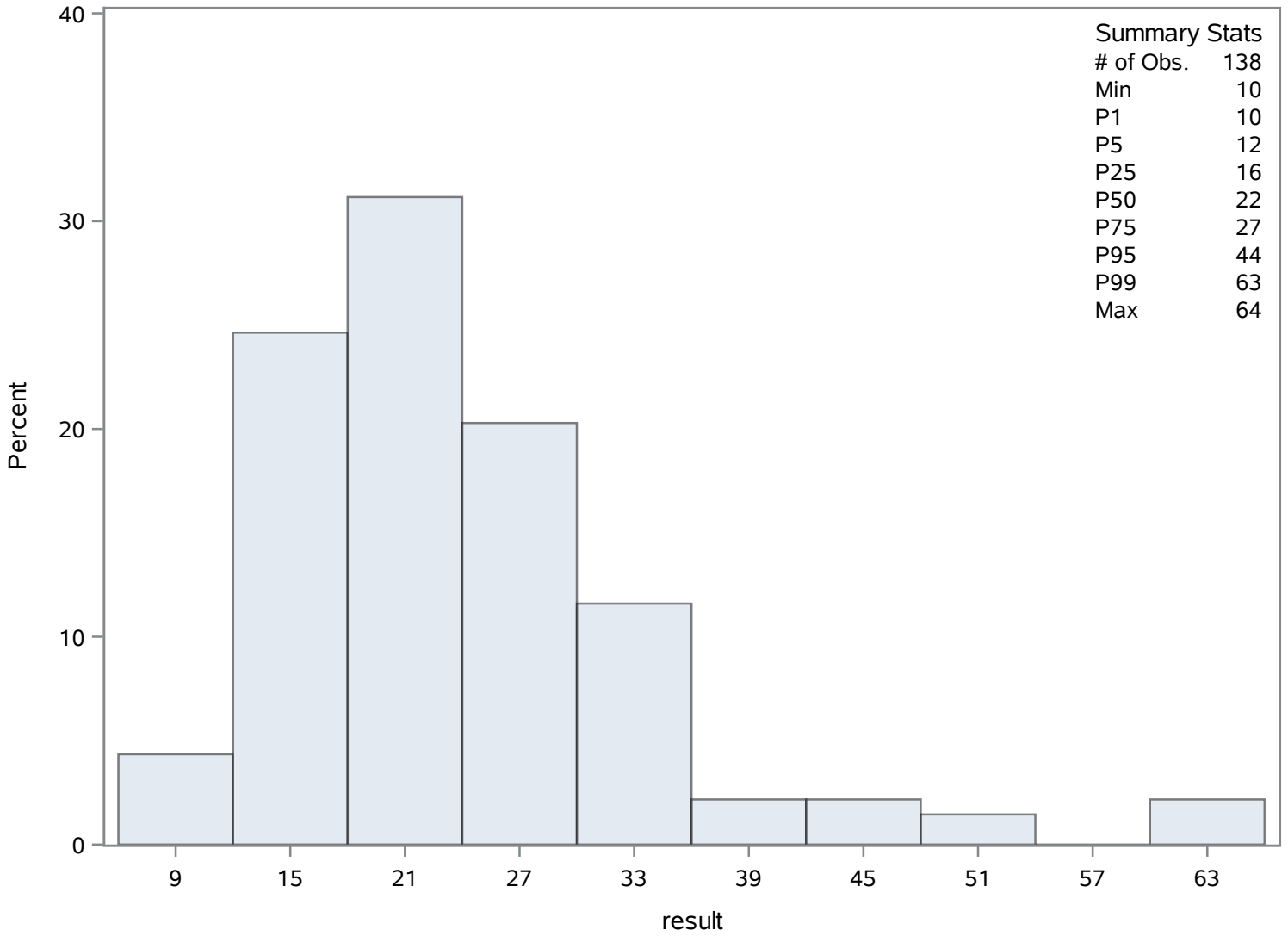
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	1710	49	1586
10	1641	53	1708
10	1617	63	1676
10	1604	63	1701
11	1674	64	1584

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.86527778	Sum Observations	849.45
Std Deviation	0.36190167	Variance	0.13097282
Skewness	0.91045264	Kurtosis	0.51261607
Uncorrected SS	6695.1743	Corrected SS	14.0140917
Coeff Variation	4.60125734	Std Error Mean	0.034824

Basic Statistical Measures			
Location		Variability	
Mean	7.865278	Std Deviation	0.36190
Median	7.800000	Variance	0.13097
Mode	7.750000	Range	1.66000
		Interquartile Range	0.43500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	225.8579	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.910
99%	8.830
95%	8.650
90%	8.430
75% Q3	8.025
50% Median	7.800
25% Q1	7.590
10%	7.470
5%	7.410
1%	7.300
0% Min	7.250

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Field

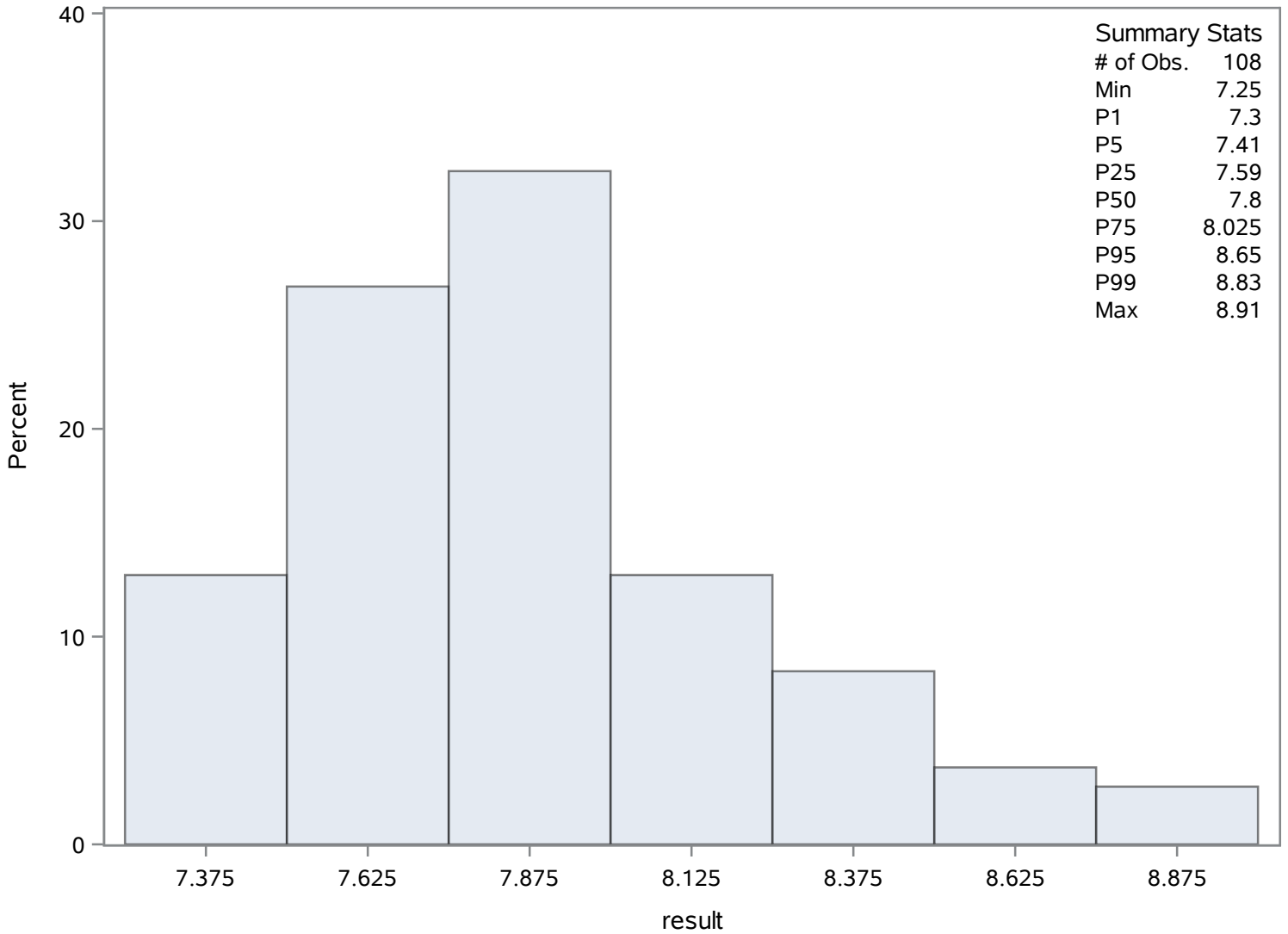
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.25	1812	8.68	1782
7.30	1813	8.72	1736
7.35	1777	8.82	1795
7.37	1788	8.83	1796
7.38	1778	8.91	1784

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.96449275	Sum Observations	1099.1
Std Deviation	0.31502537	Variance	0.09924098
Skewness	0.91576273	Kurtosis	0.5647441
Uncorrected SS	8767.37	Corrected SS	13.5960145
Coeff Variation	3.95537263	Std Error Mean	0.02681674

Basic Statistical Measures			
Location		Variability	
Mean	7.964493	Std Deviation	0.31503
Median	7.900000	Variance	0.09924
Mode	7.800000	Range	1.40000
		Interquartile Range	0.30000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	296.9971	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.8
99%	8.8
95%	8.6
90%	8.4
75% Q3	8.1
50% Median	7.9
25% Q1	7.8
10%	7.6
5%	7.6
1%	7.4
0% Min	7.4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Lab

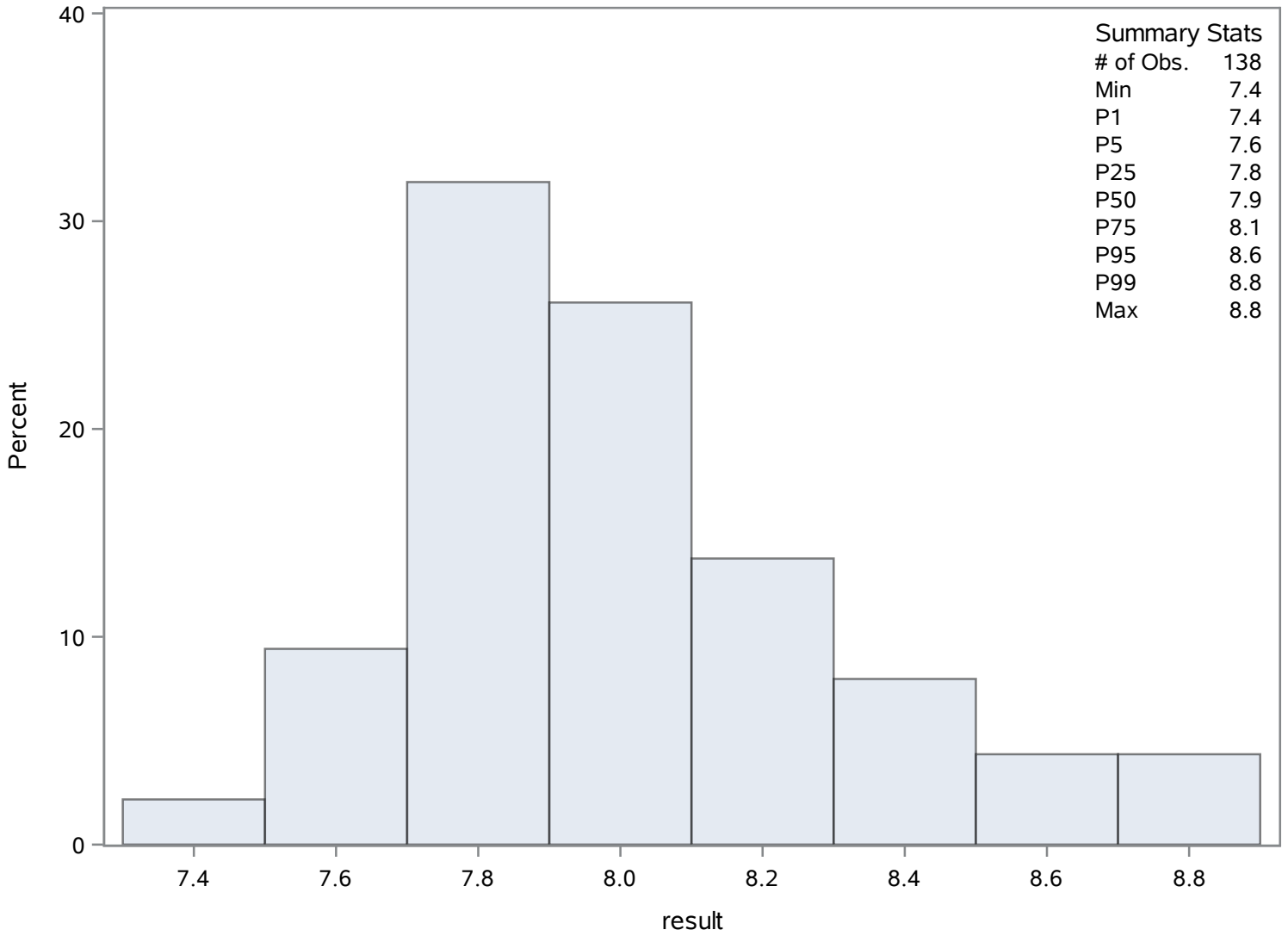
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.4	1964	8.8	1837
7.4	1963	8.8	1838
7.4	1962	8.8	1922
7.5	1856	8.8	1933
7.5	1855	8.8	1934

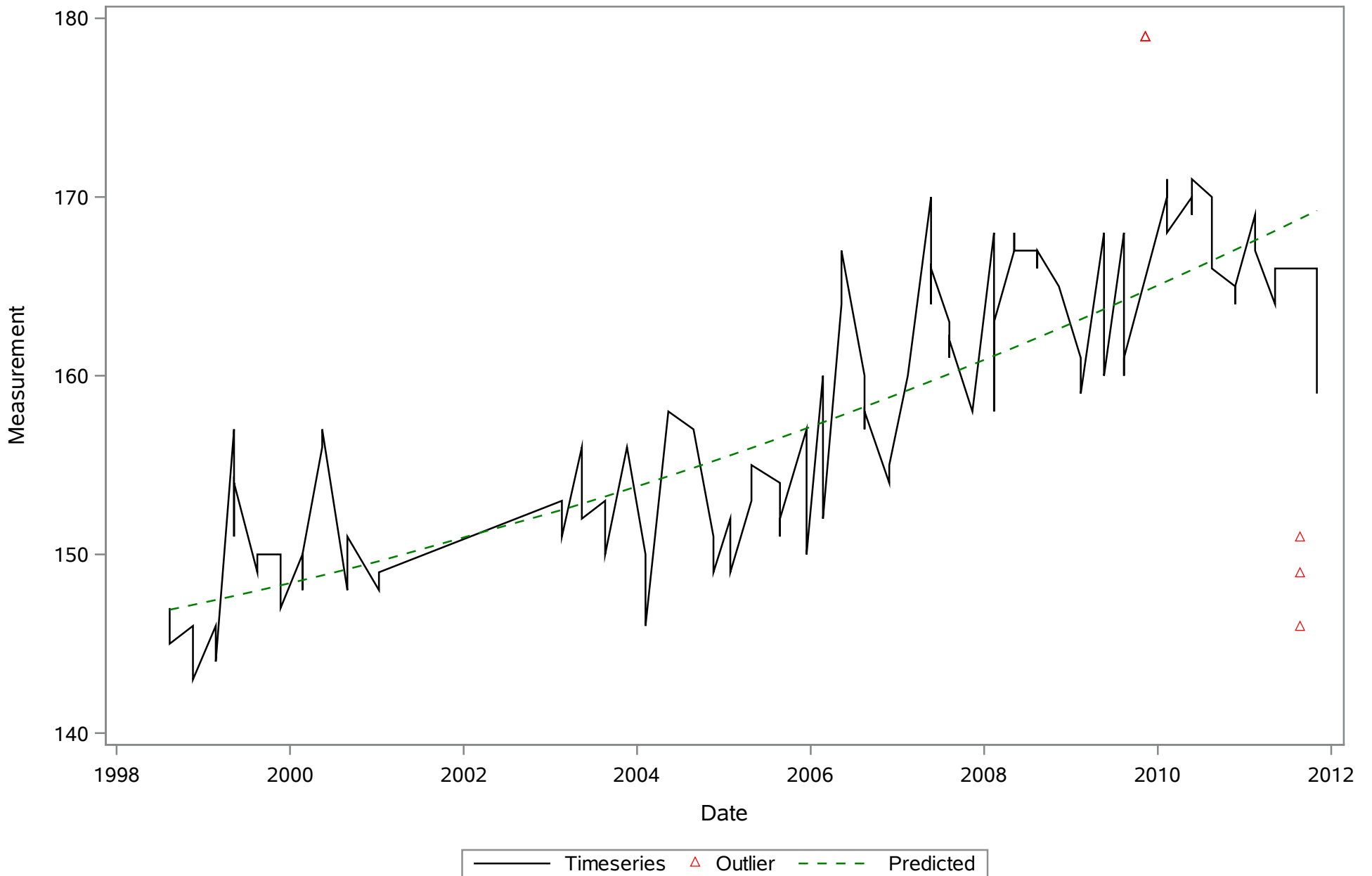
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Lab

The UNIVARIATE Procedure

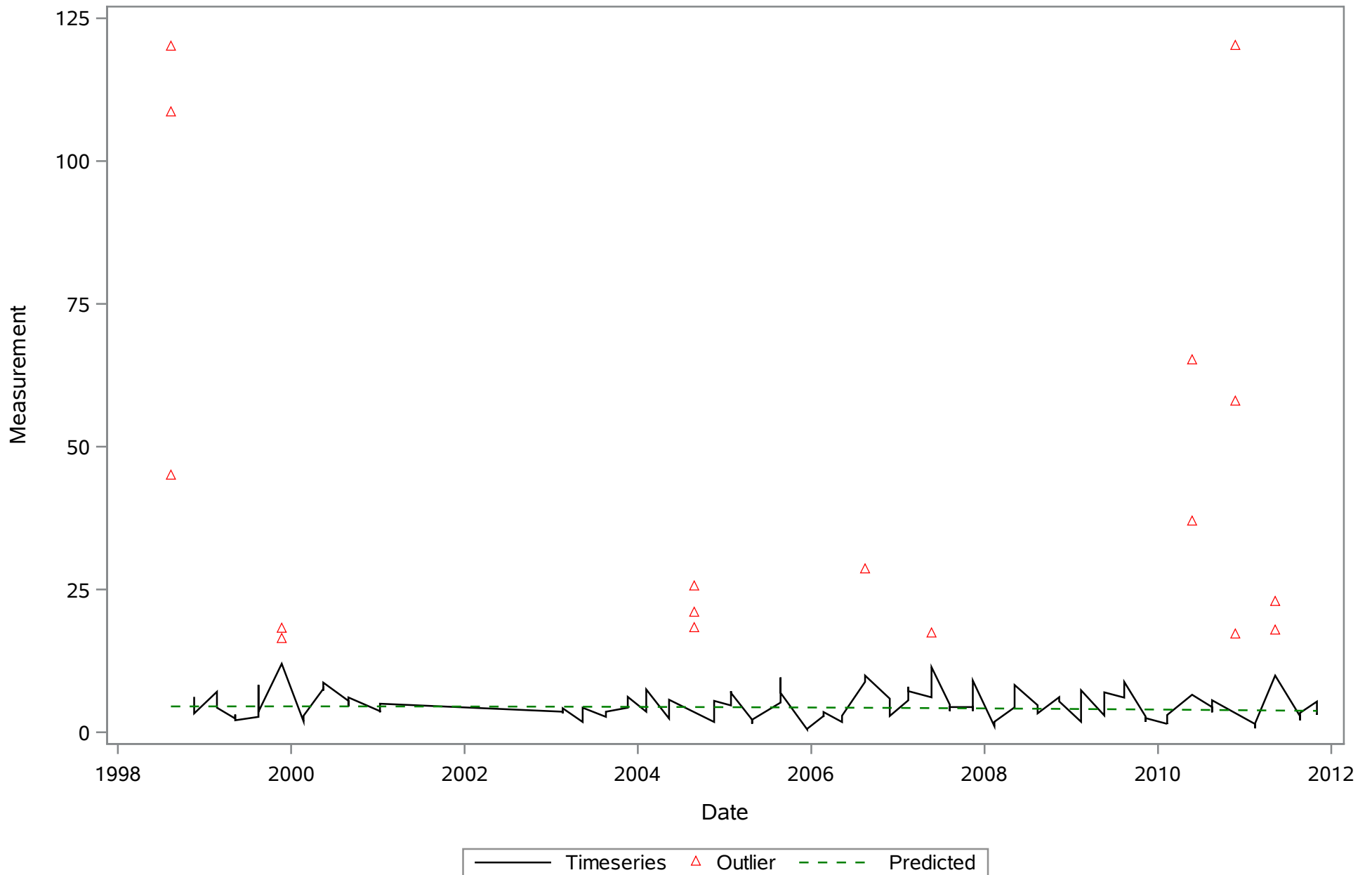
Distribution of result



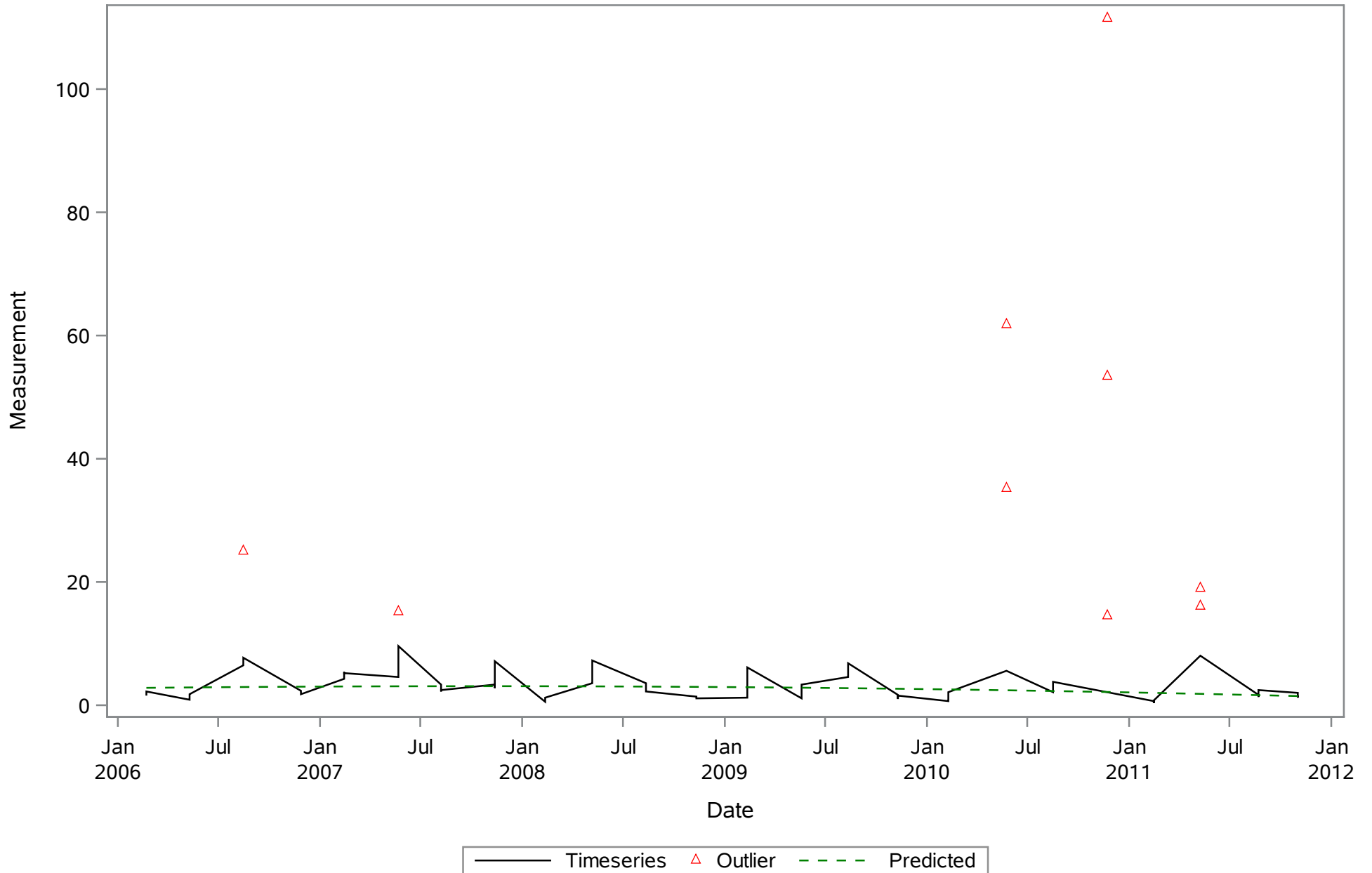
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
ALK_tot_mgL



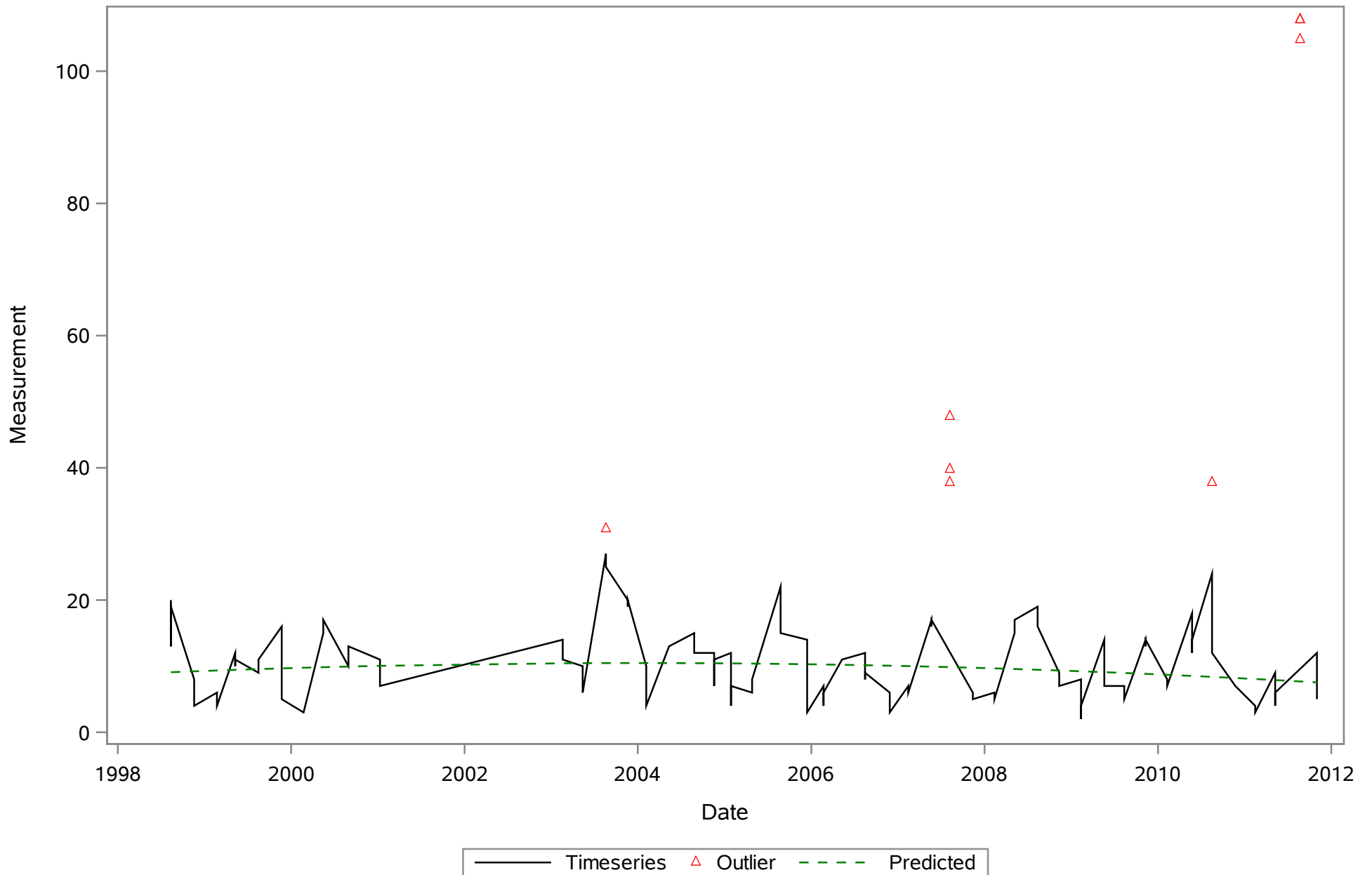
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_Uncor_ugL



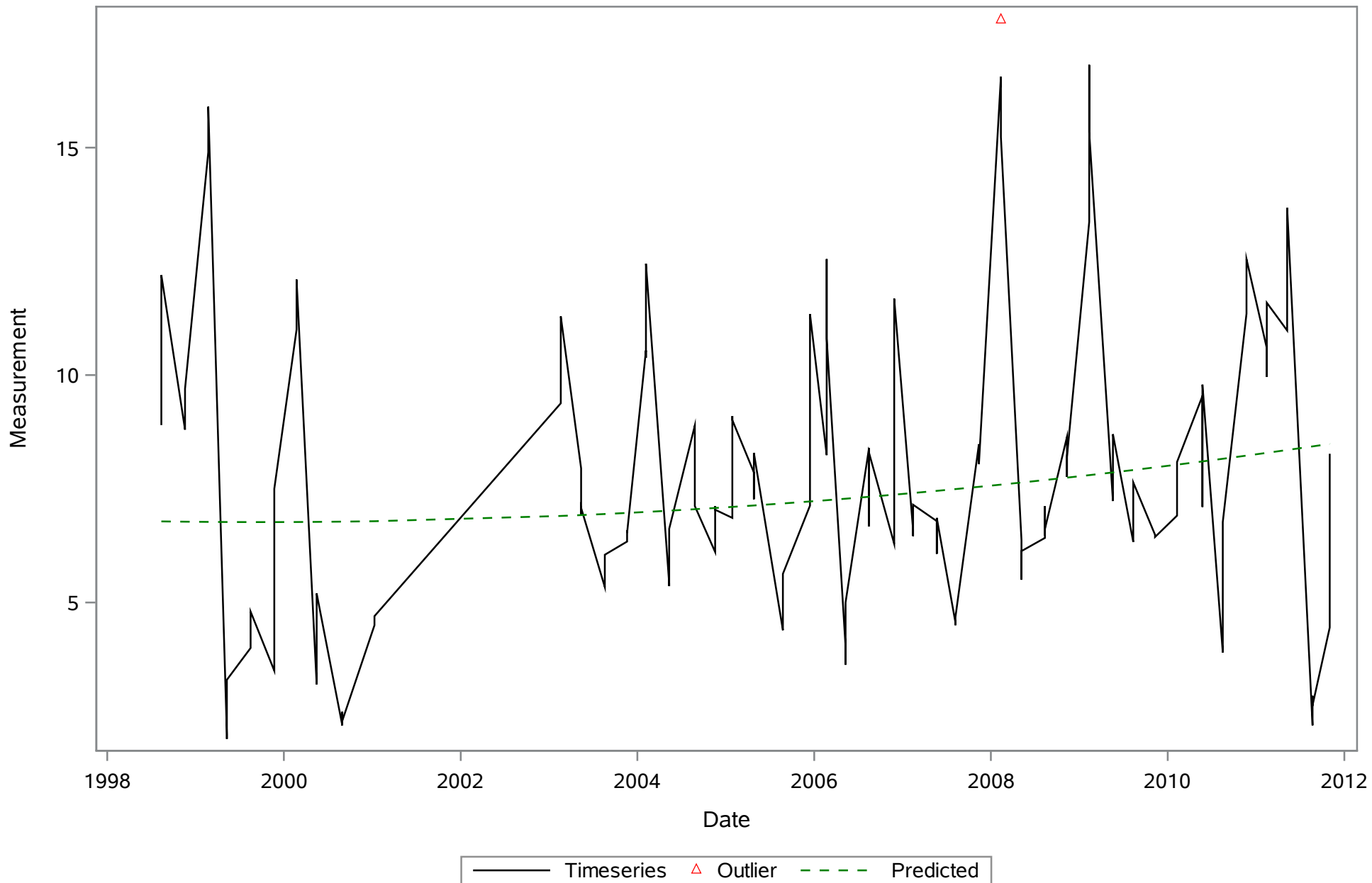
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_cor_ugl



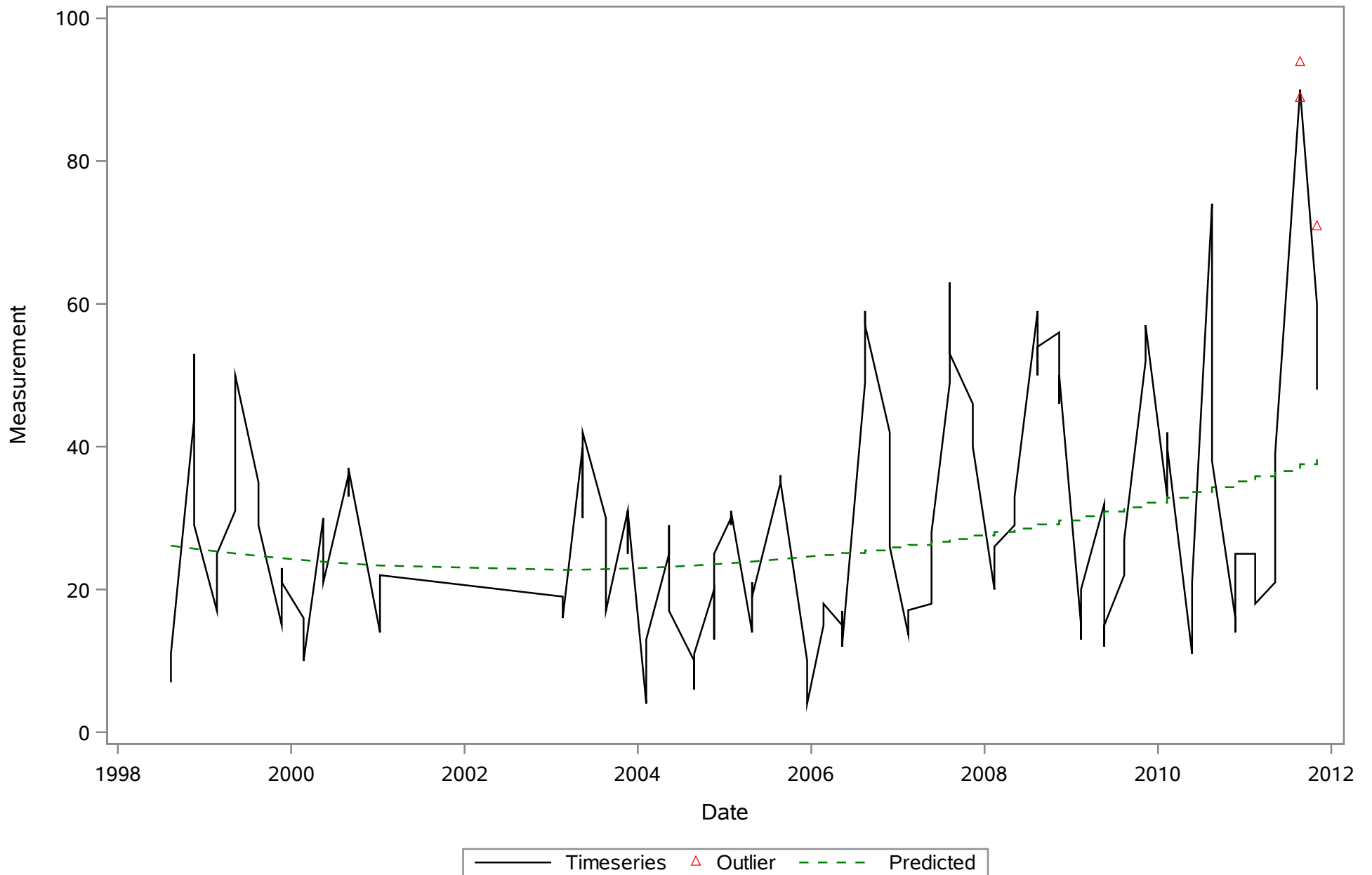
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
COLOR_PtCo



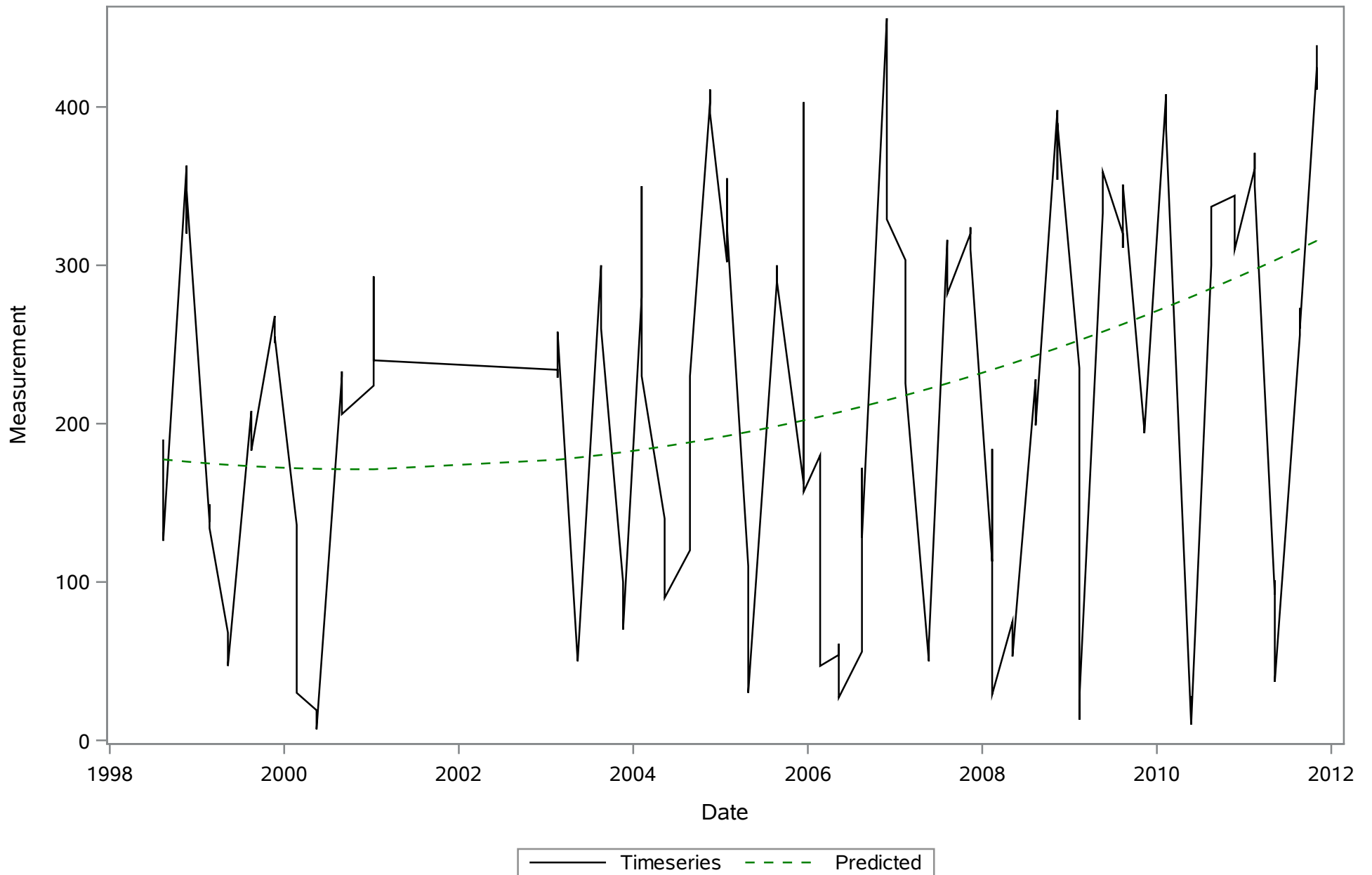
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
DO_mgL



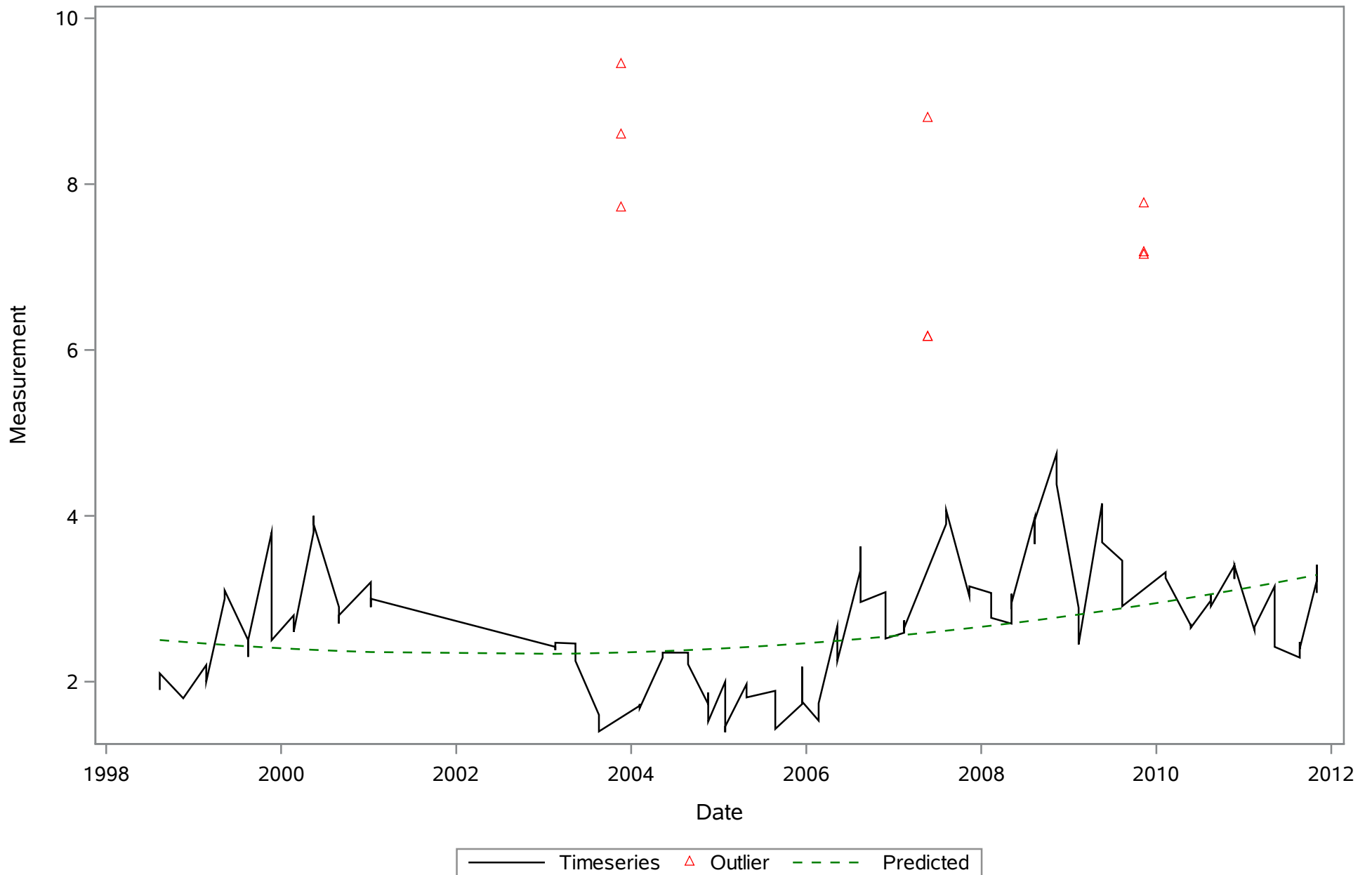
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NH4_ugl



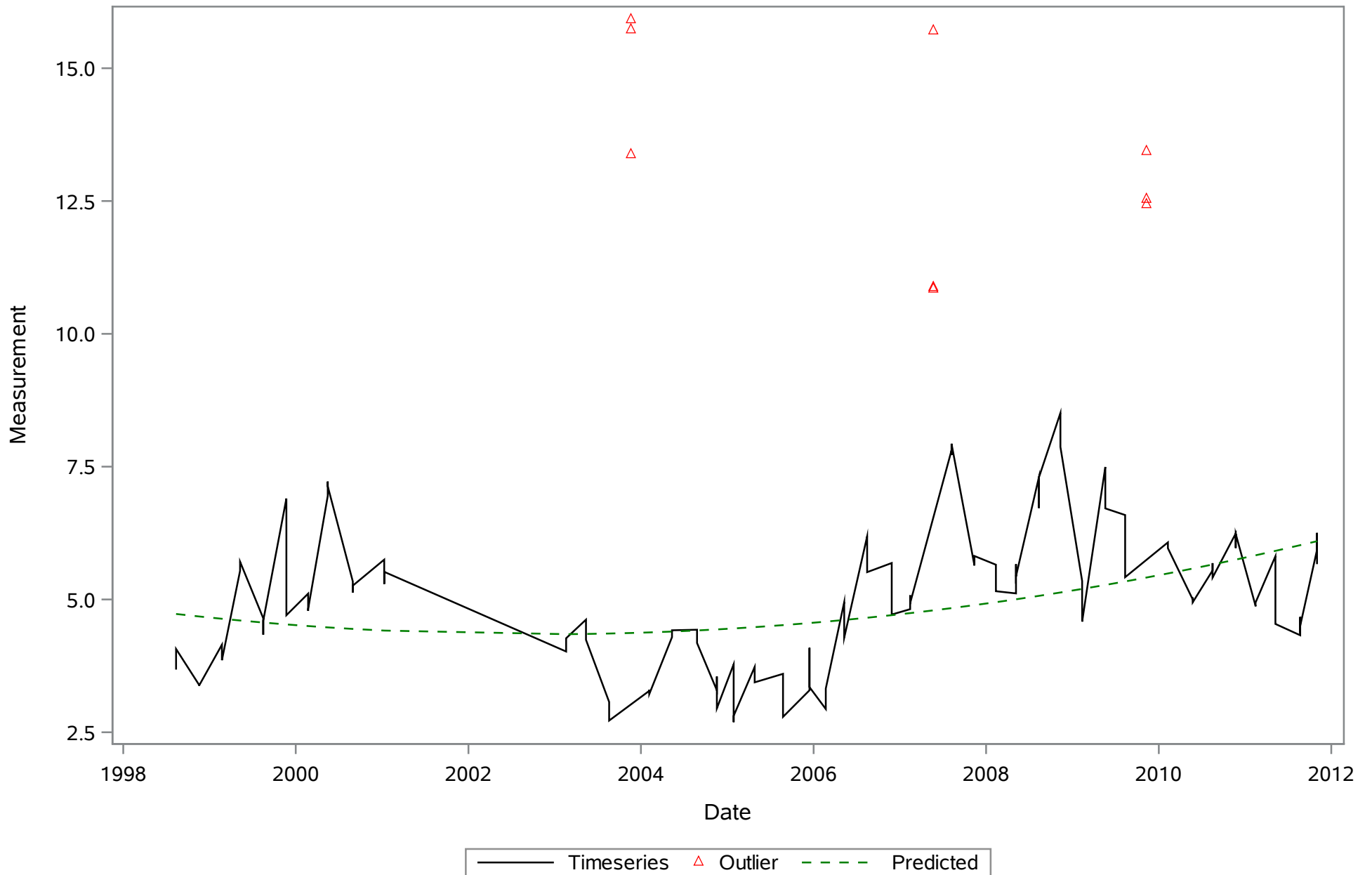
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NO3_ugL



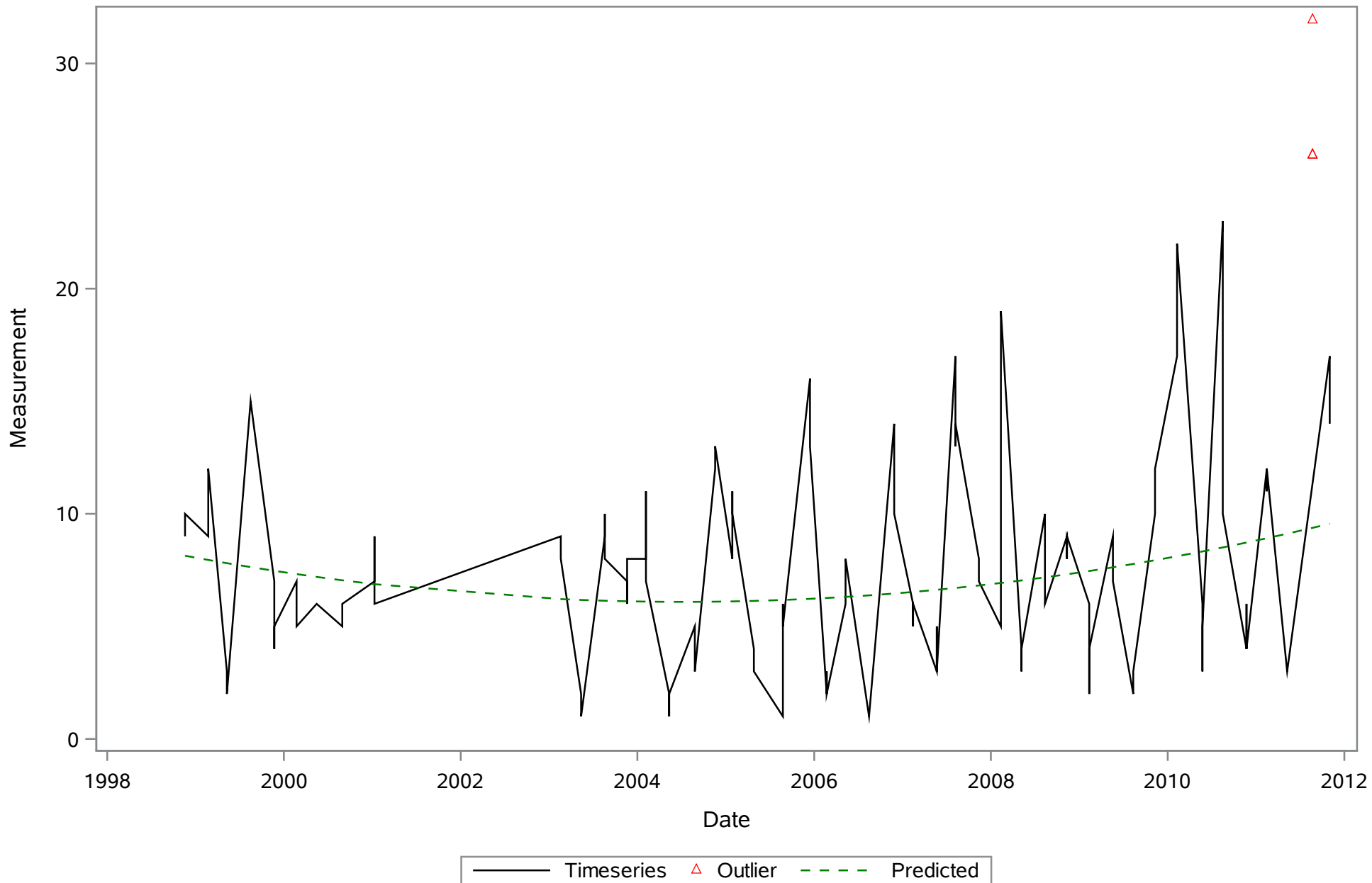
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SAL_Perc



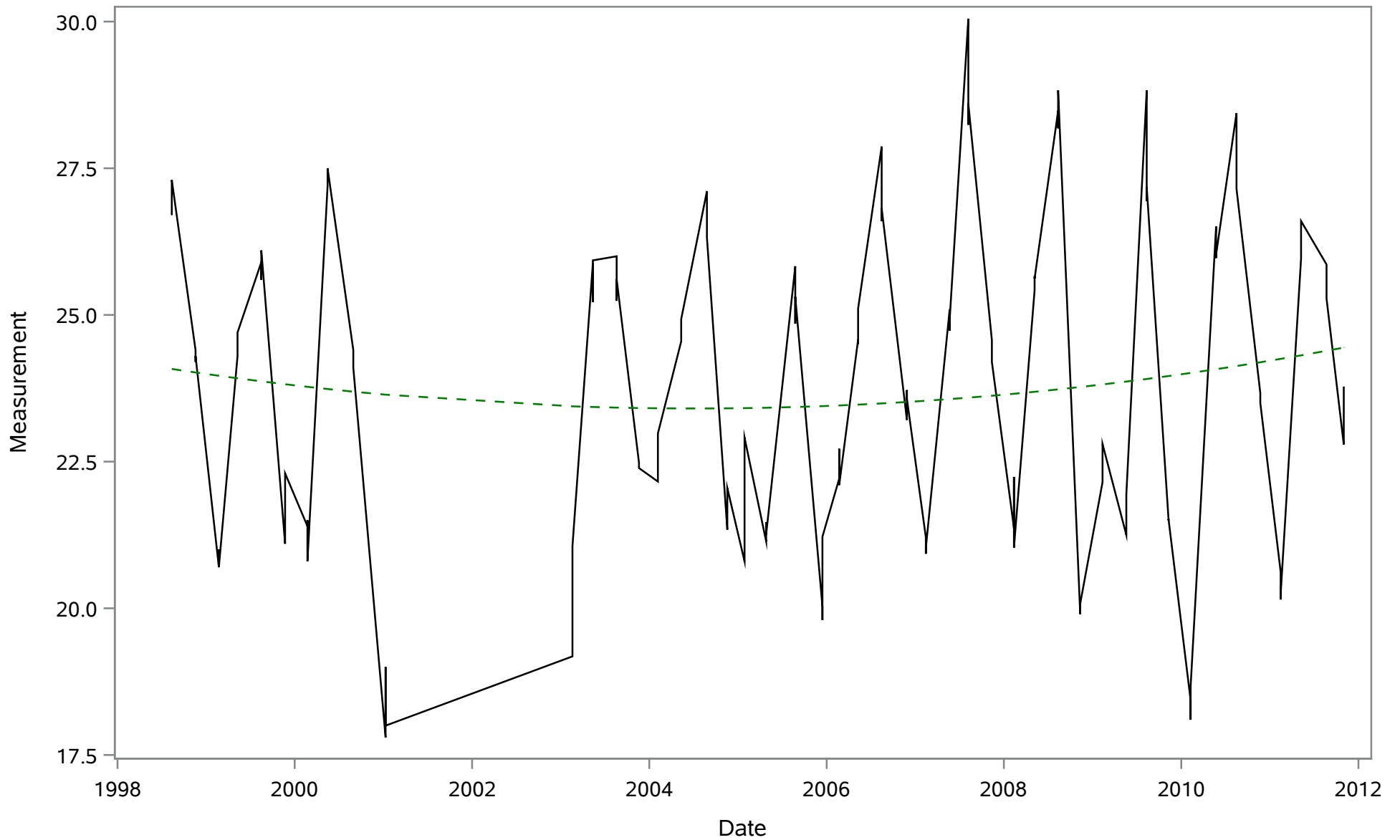
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SPCOND_mS_cm



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SRP_ugL

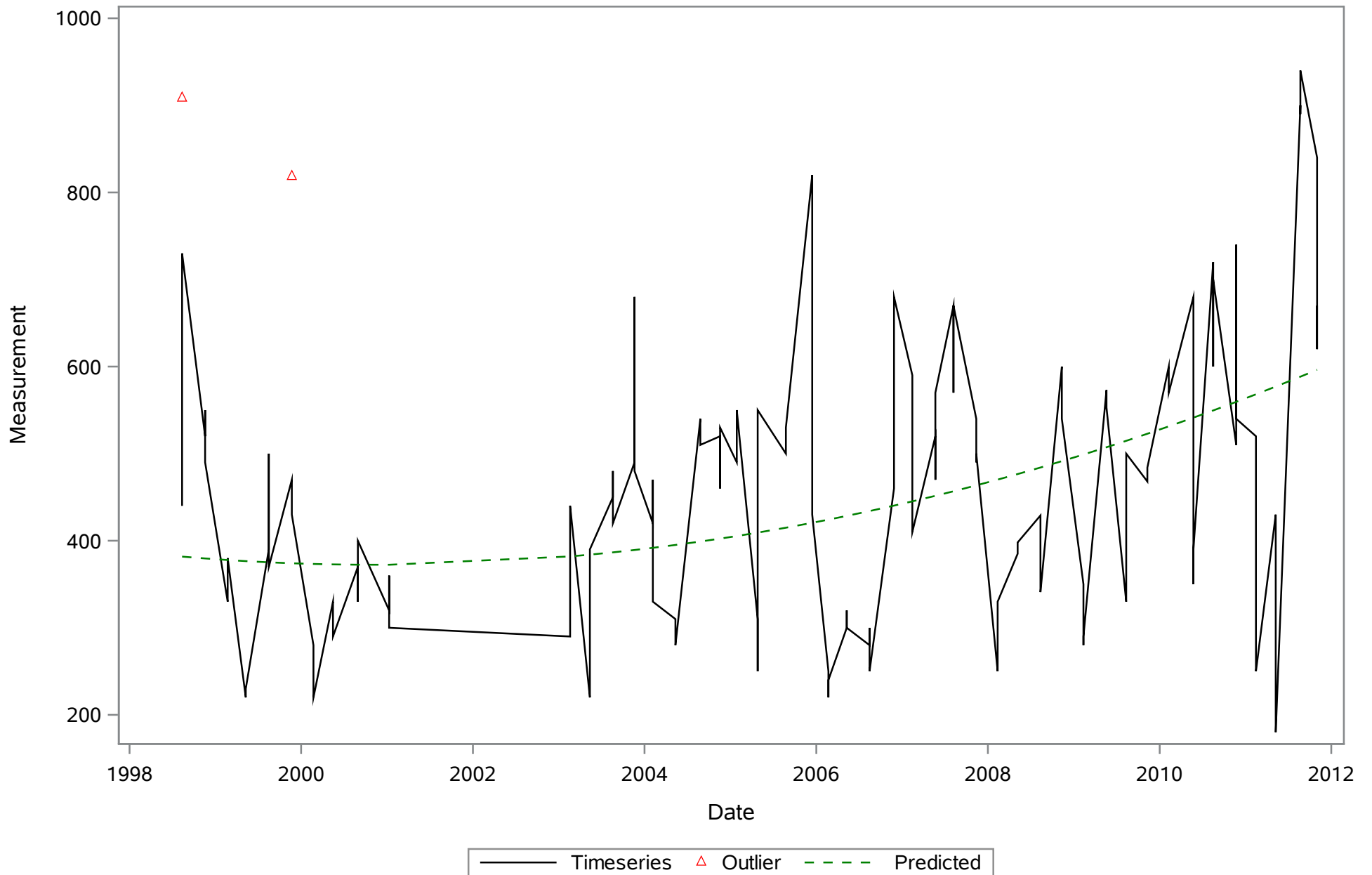


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TEMP_C

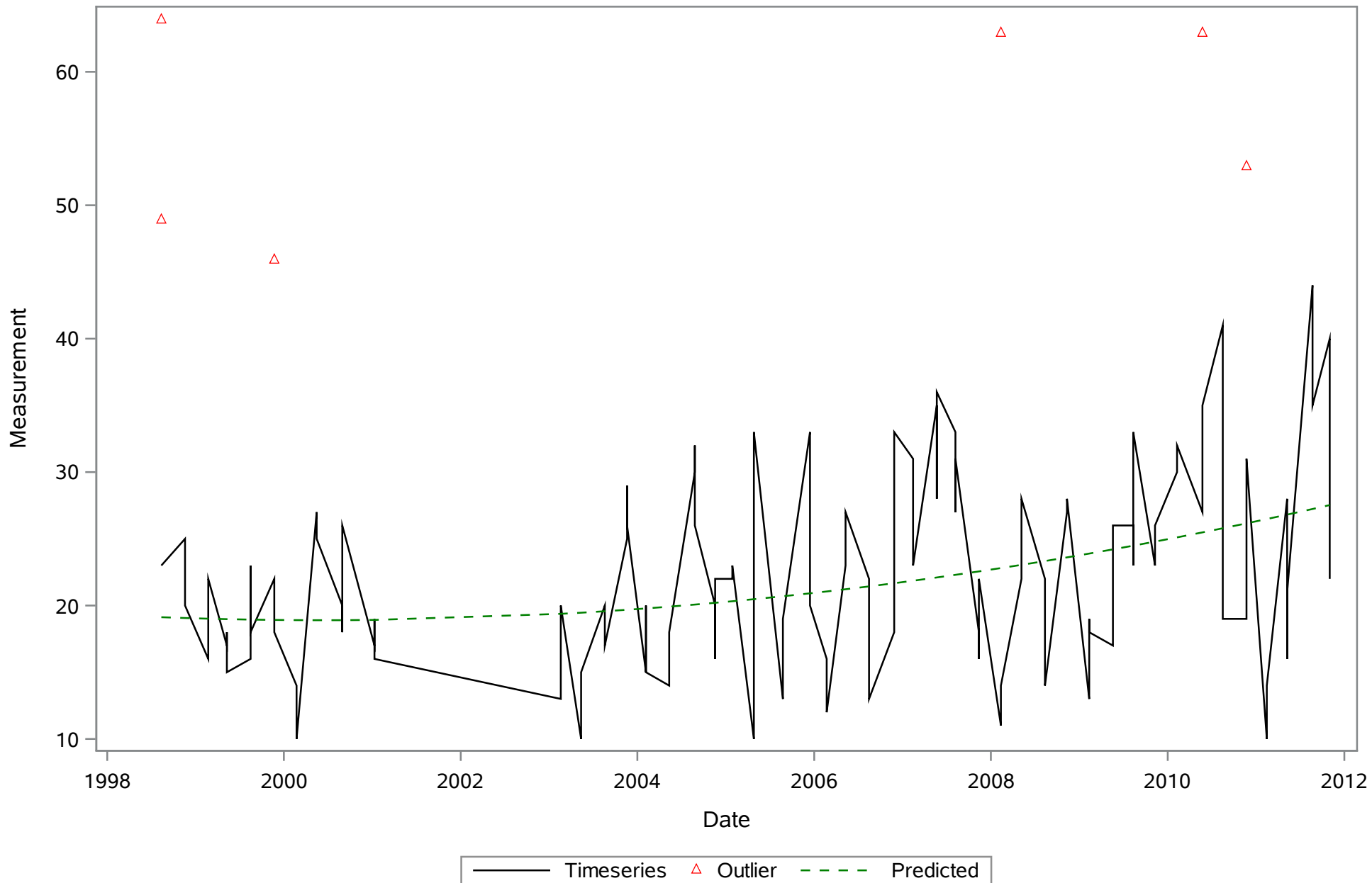


— Timeseries - - - Predicted

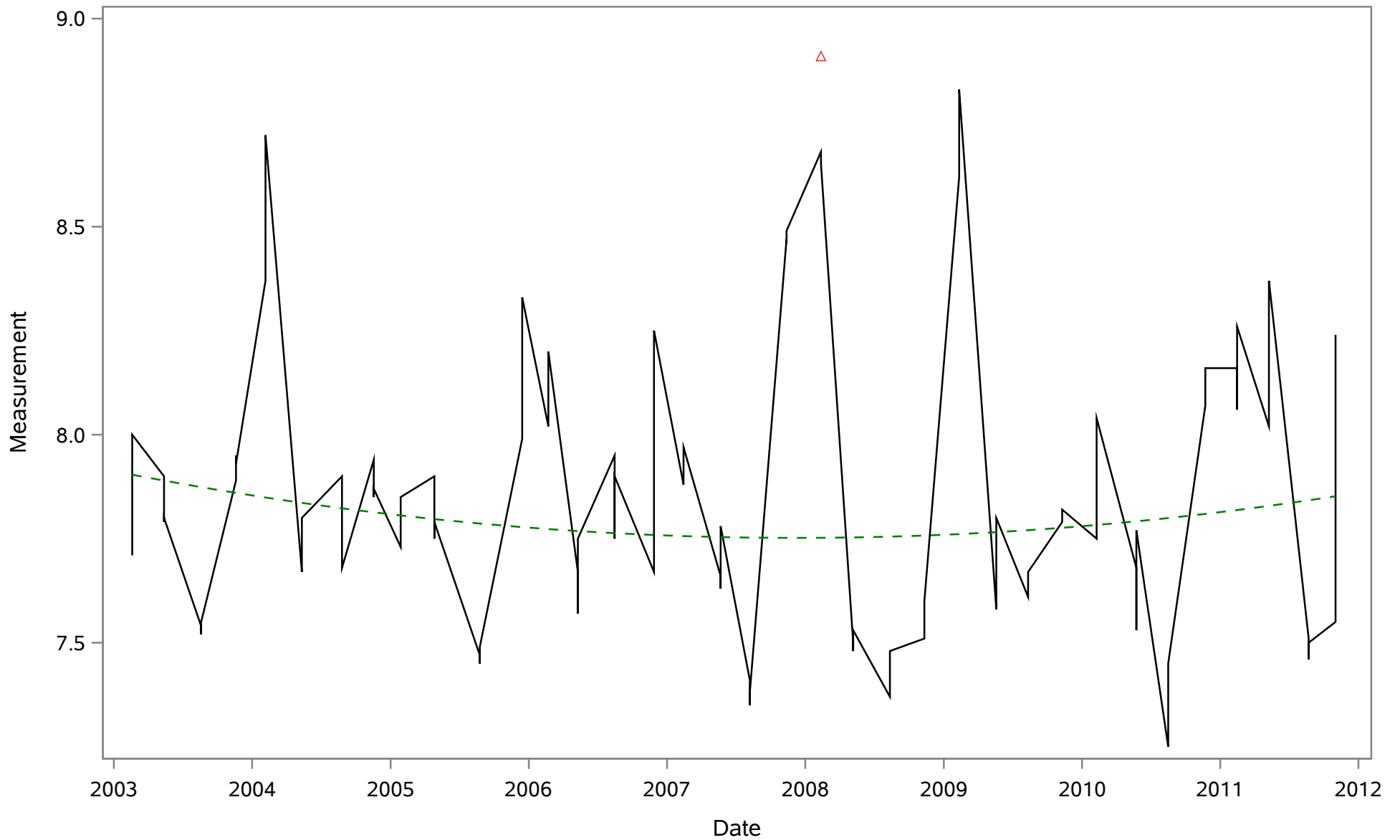
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TP_uql

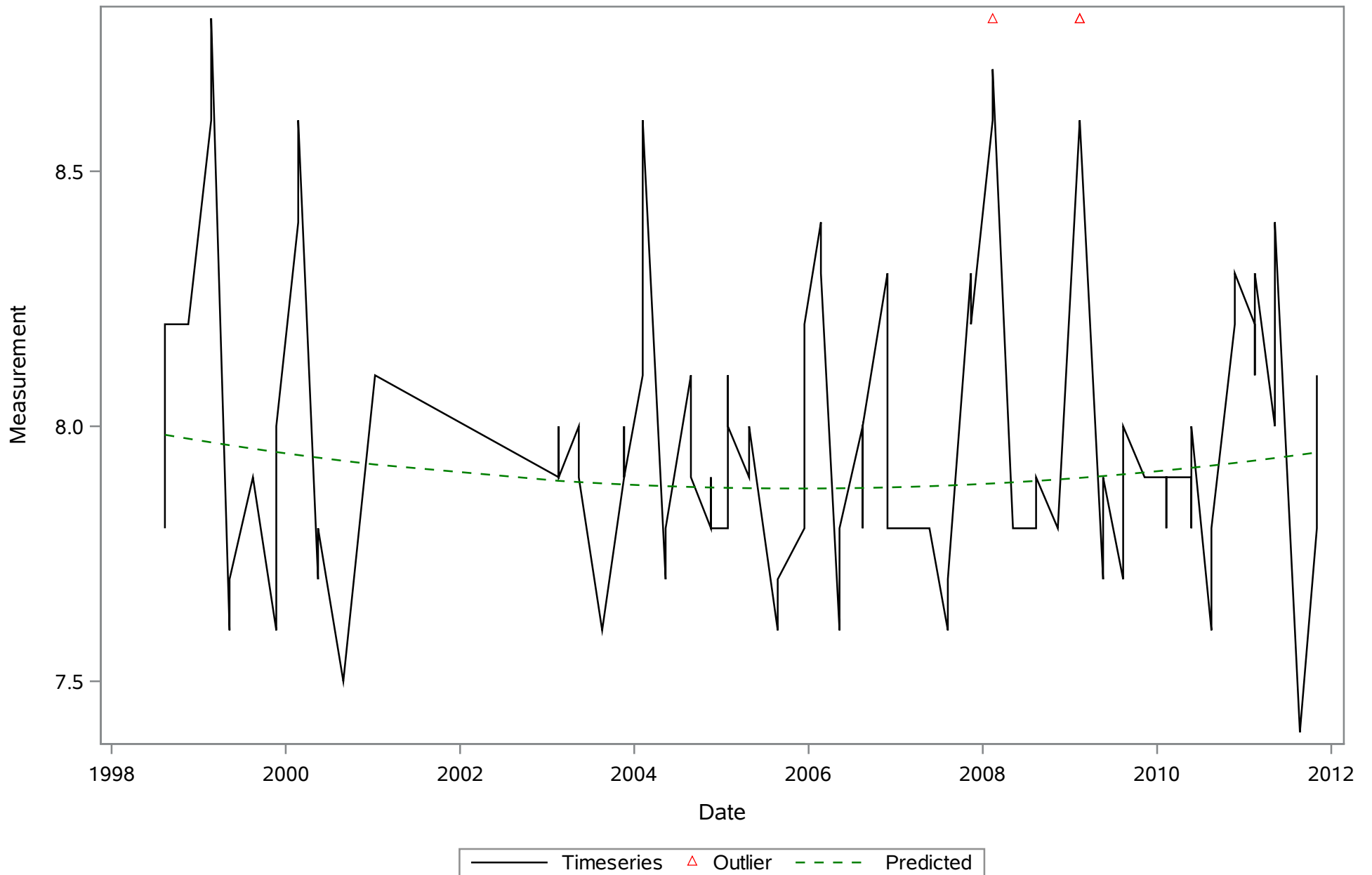


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Field

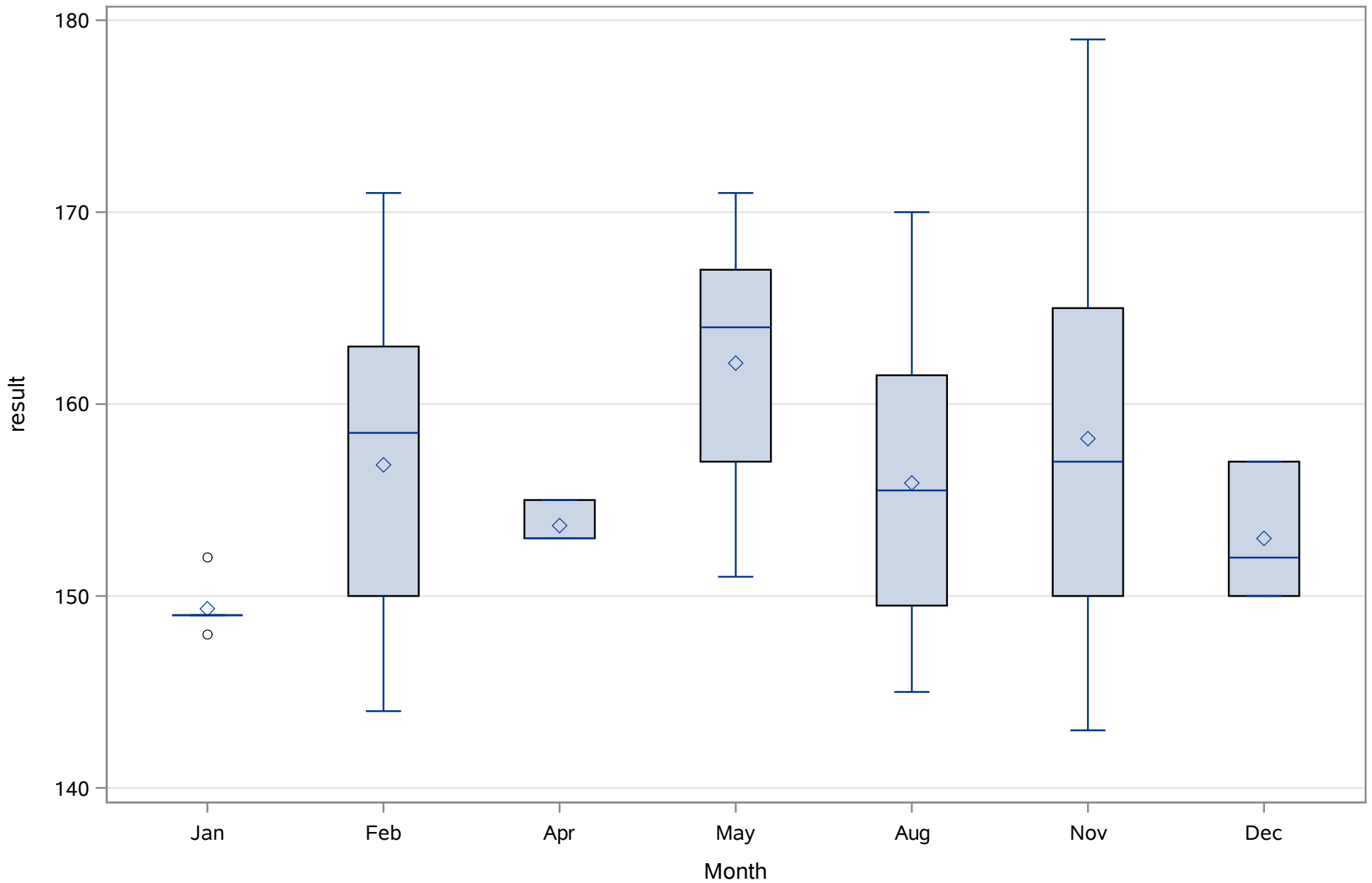


— Timeseries ▲ Outlier - - - Predicted

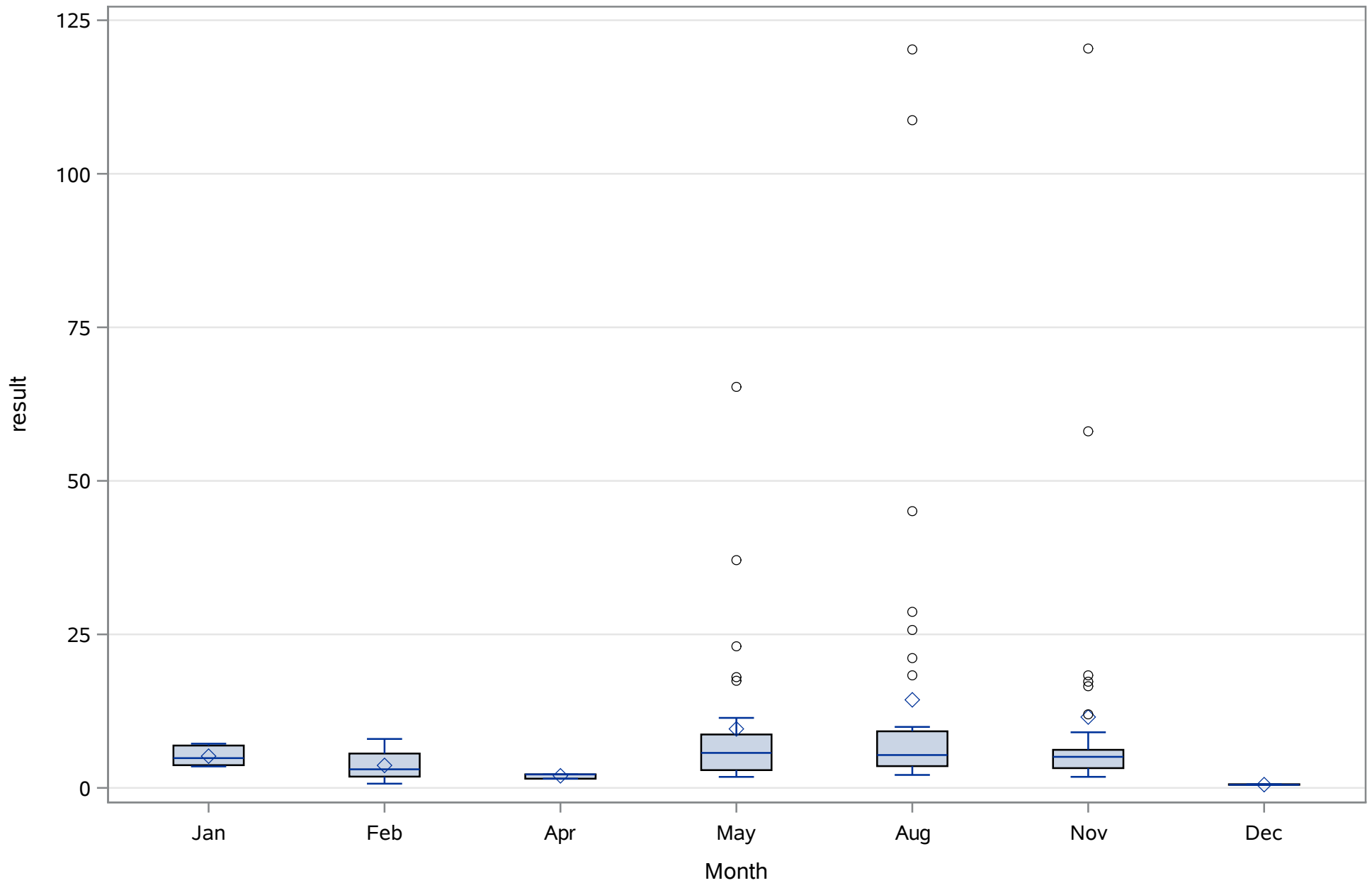
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Lab



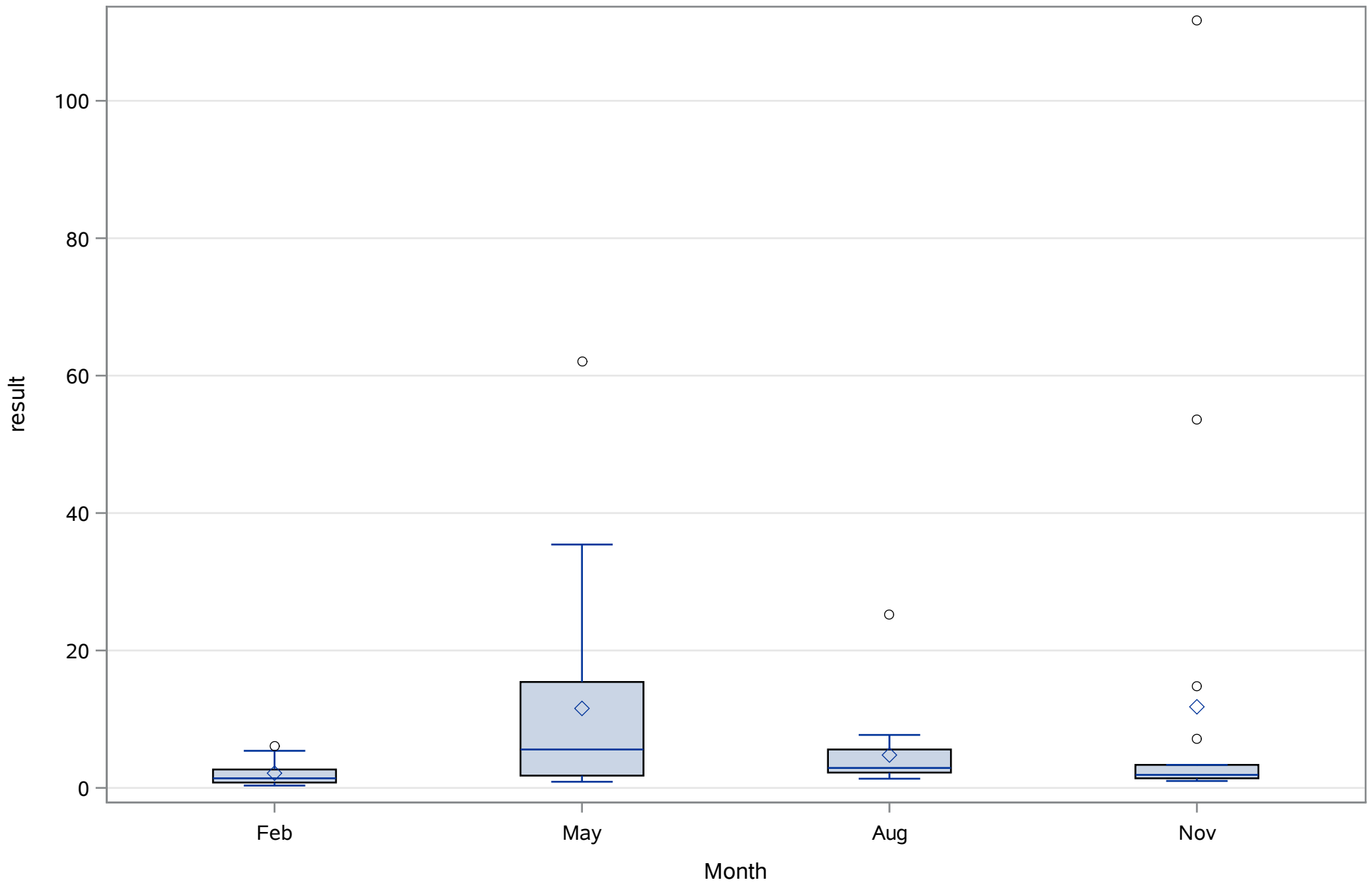
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
ALK_tot_mgL



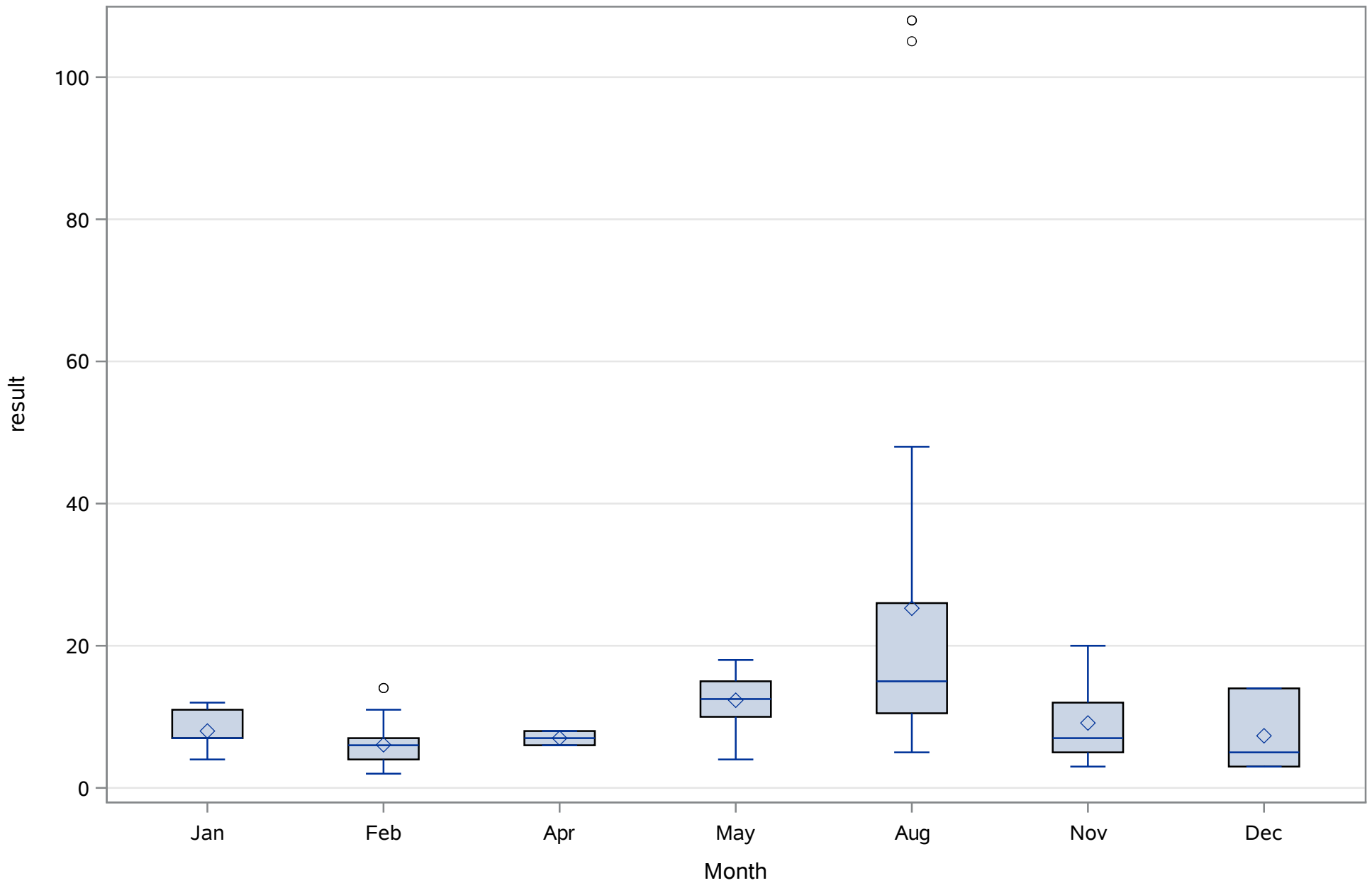
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_Uncor_ugL



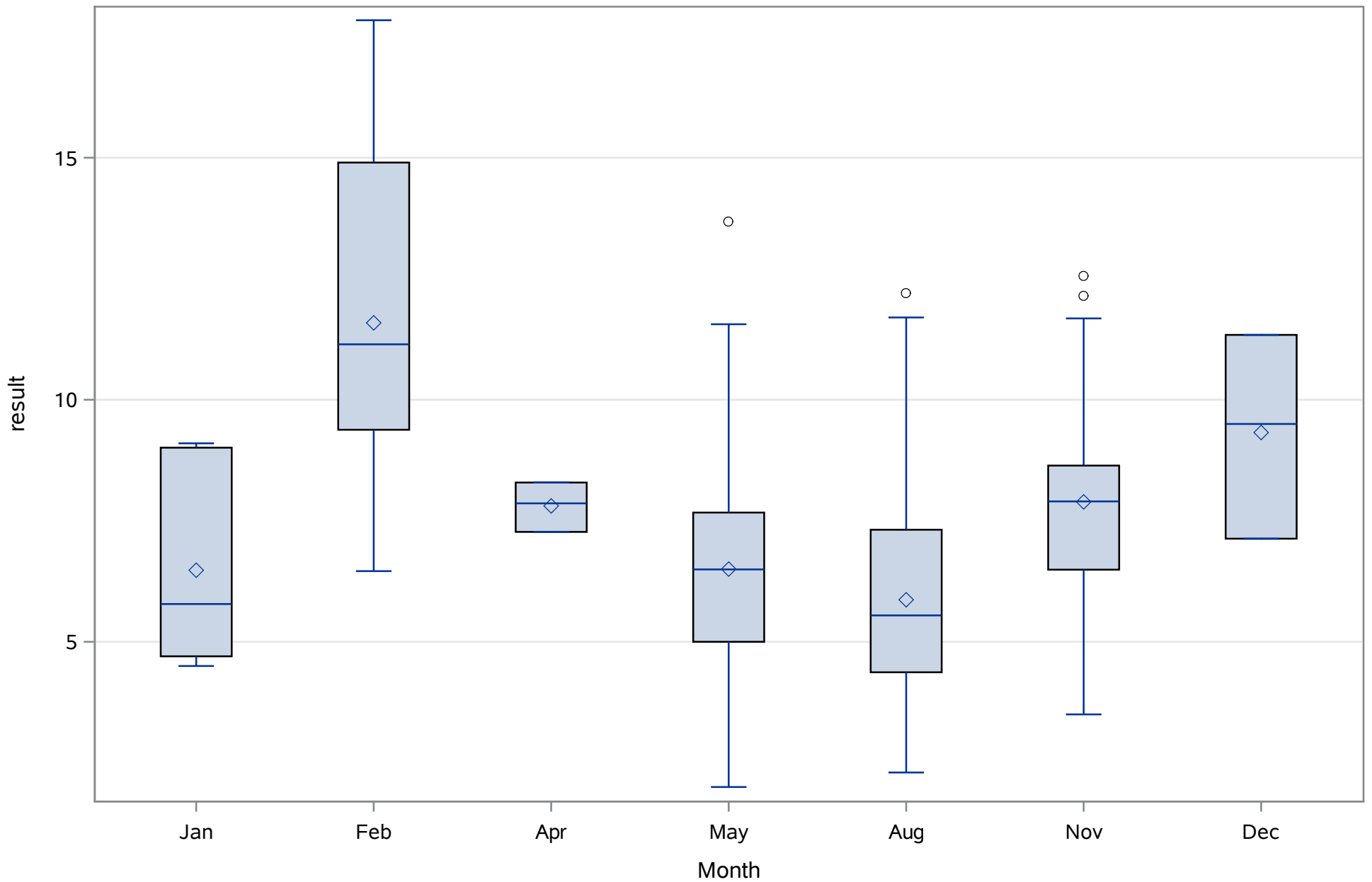
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
CHLA_cor_ugl



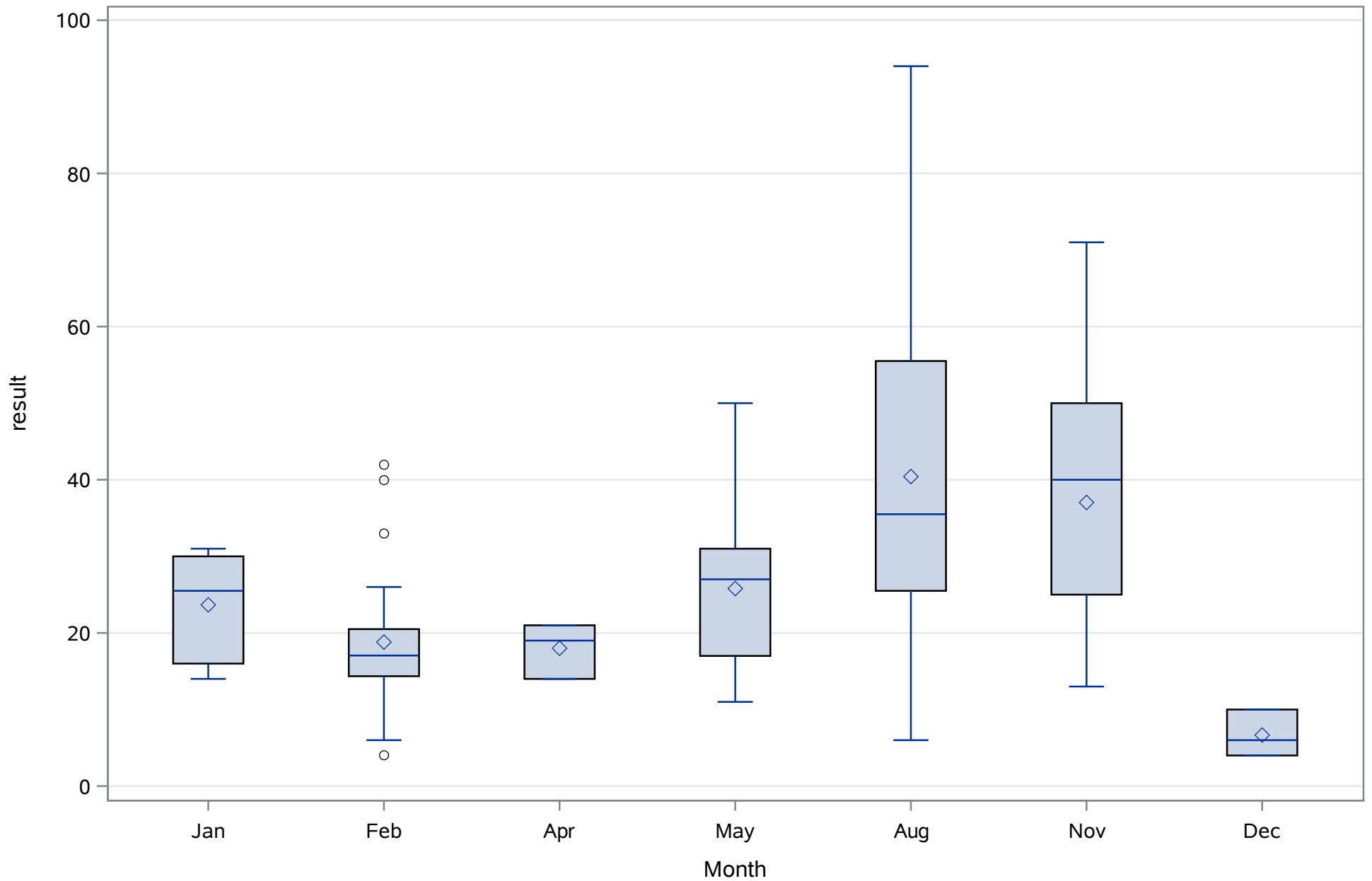
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
COLOR_PtCo



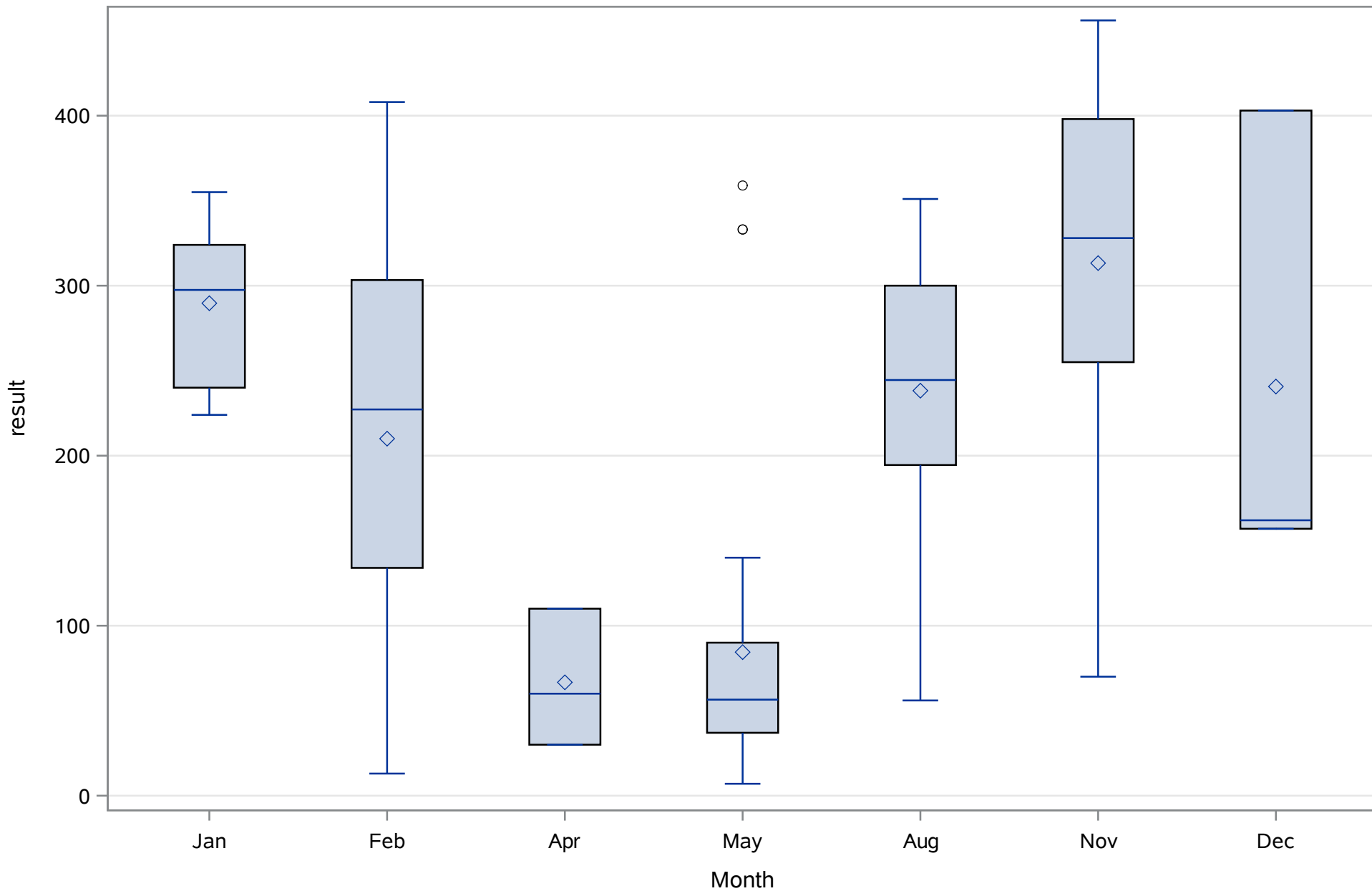
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
DO_mgL



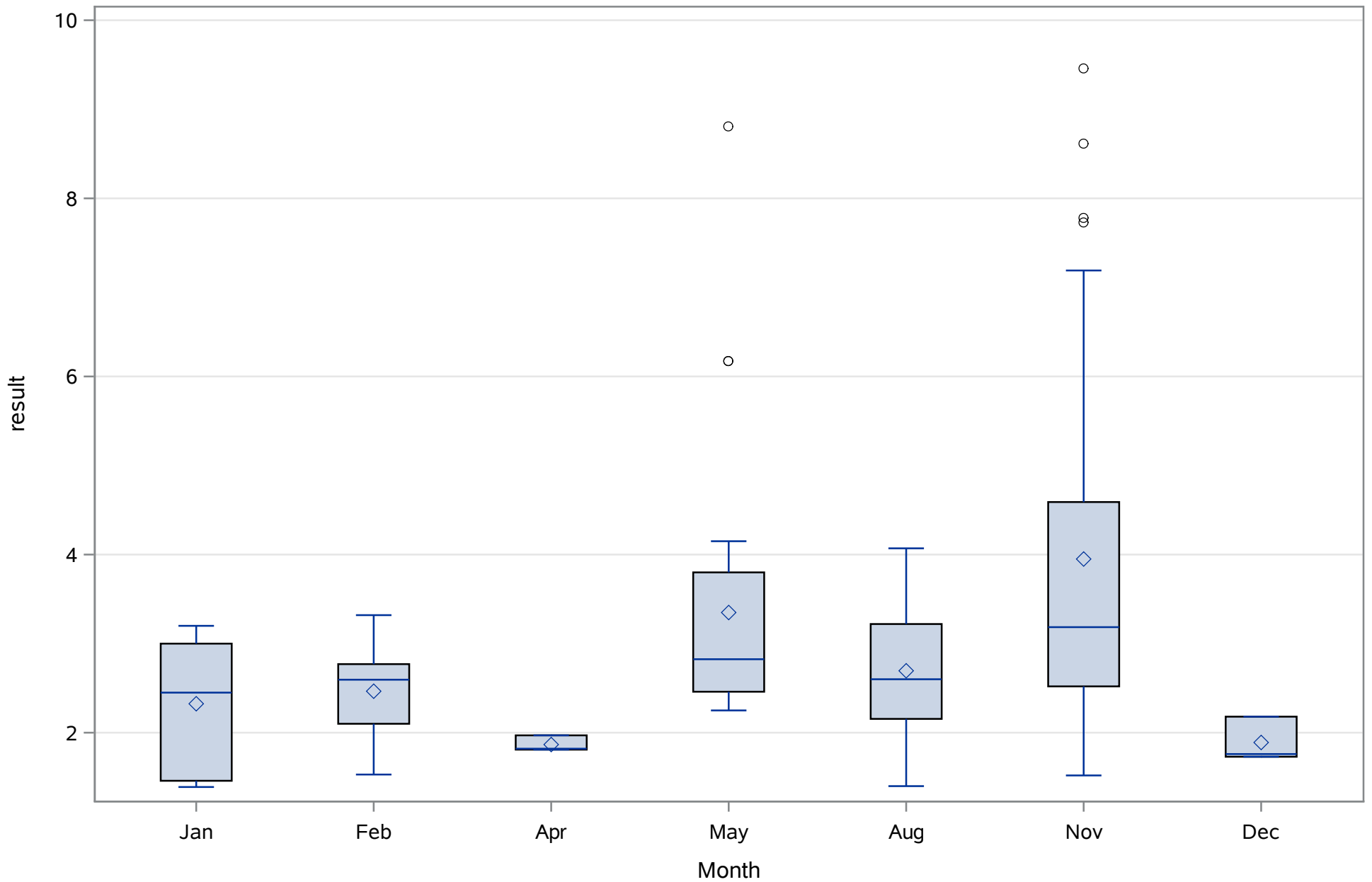
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NH4_ugl



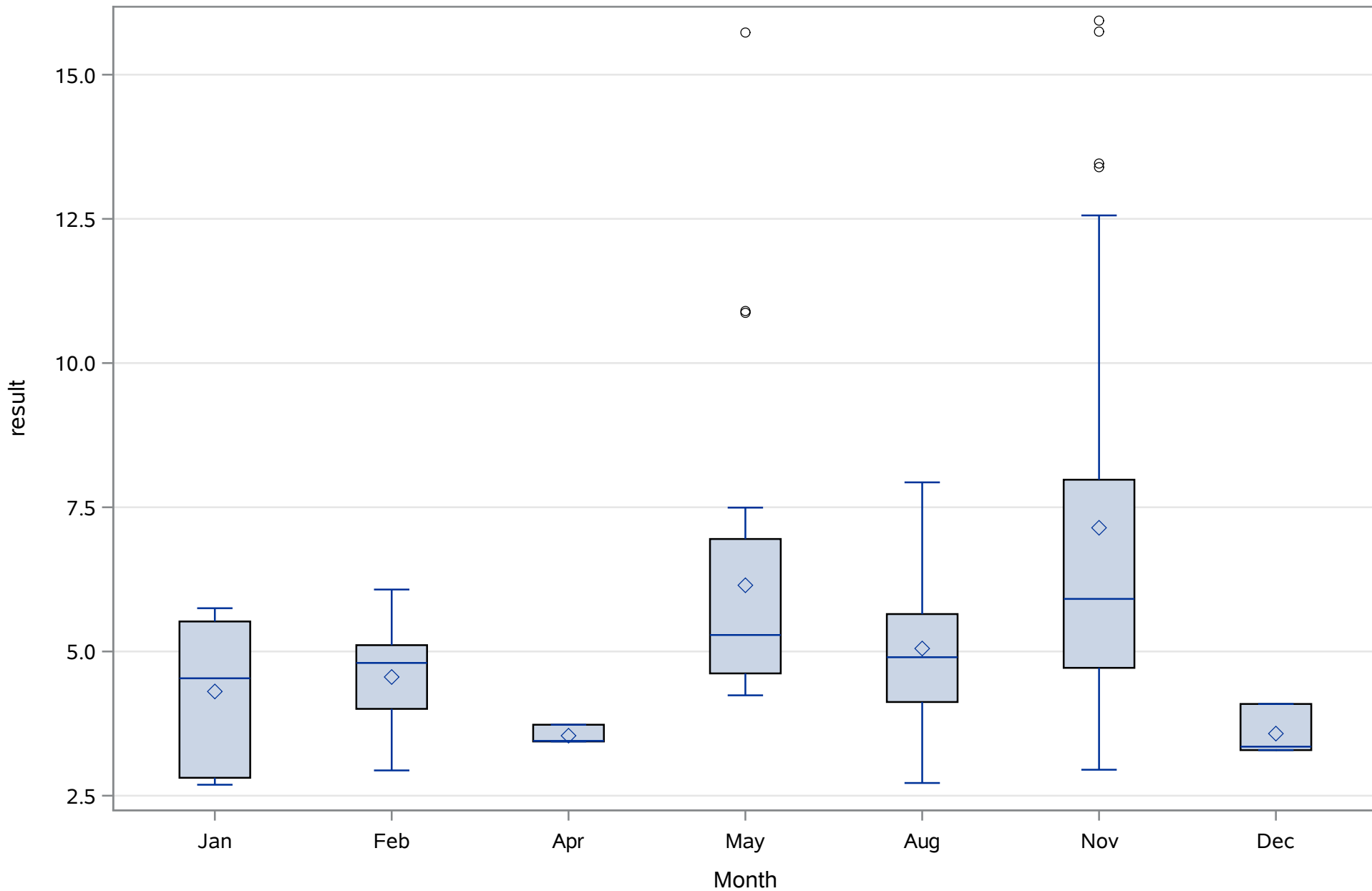
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
NO3_ugL



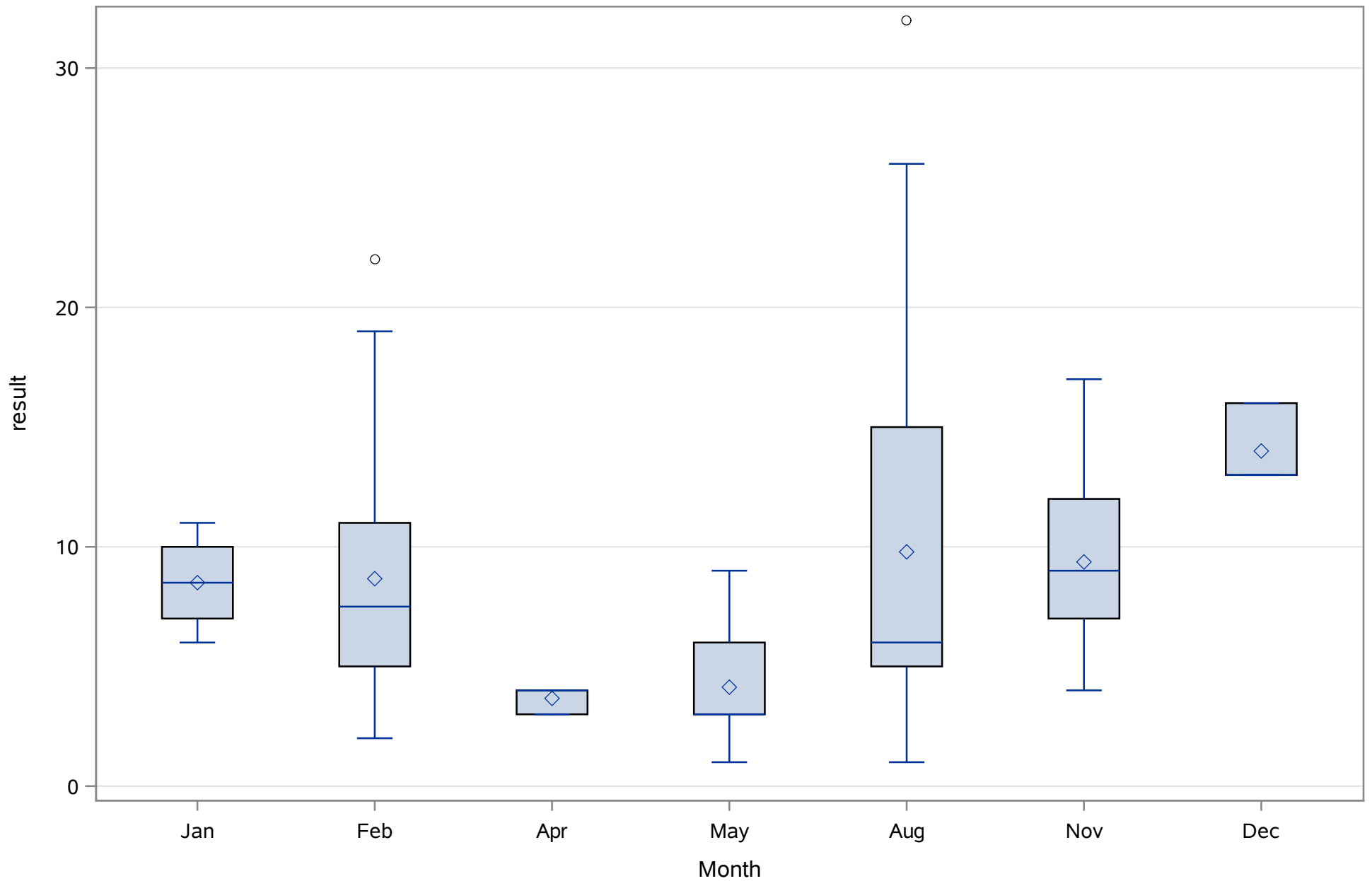
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SAL_Perc



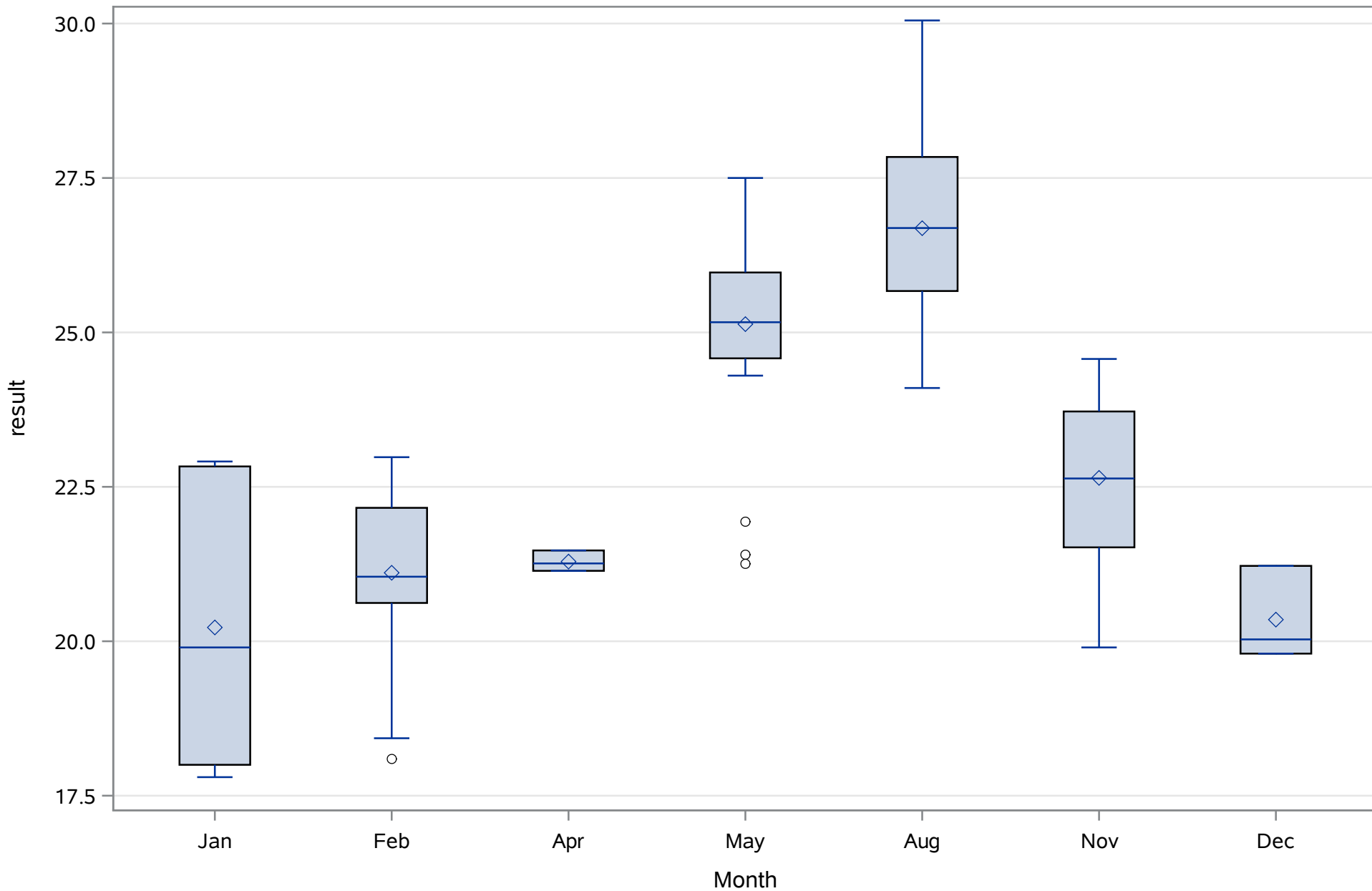
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SPCOND_mS_cm



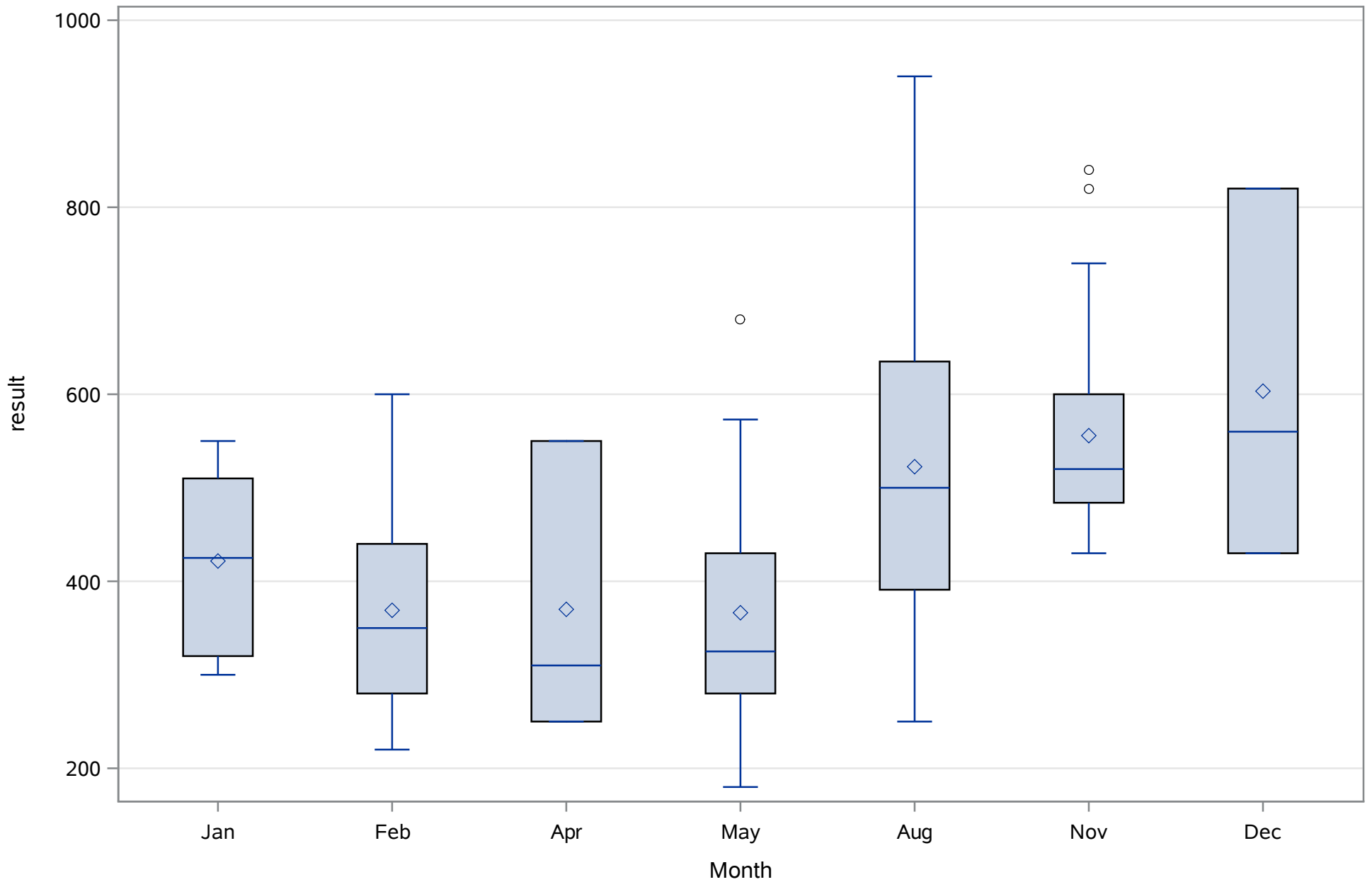
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
SRP_ugL



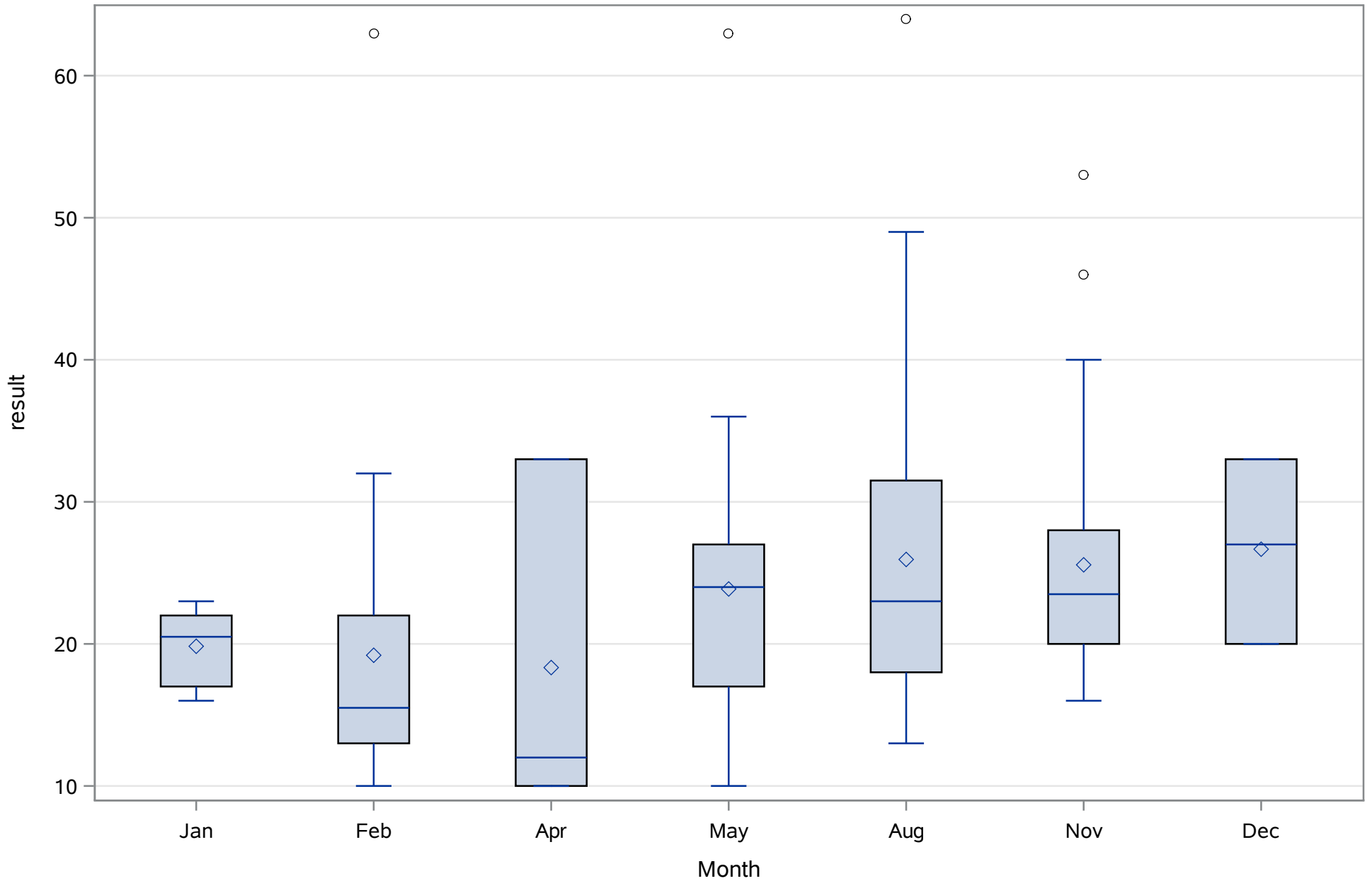
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TEMP_C



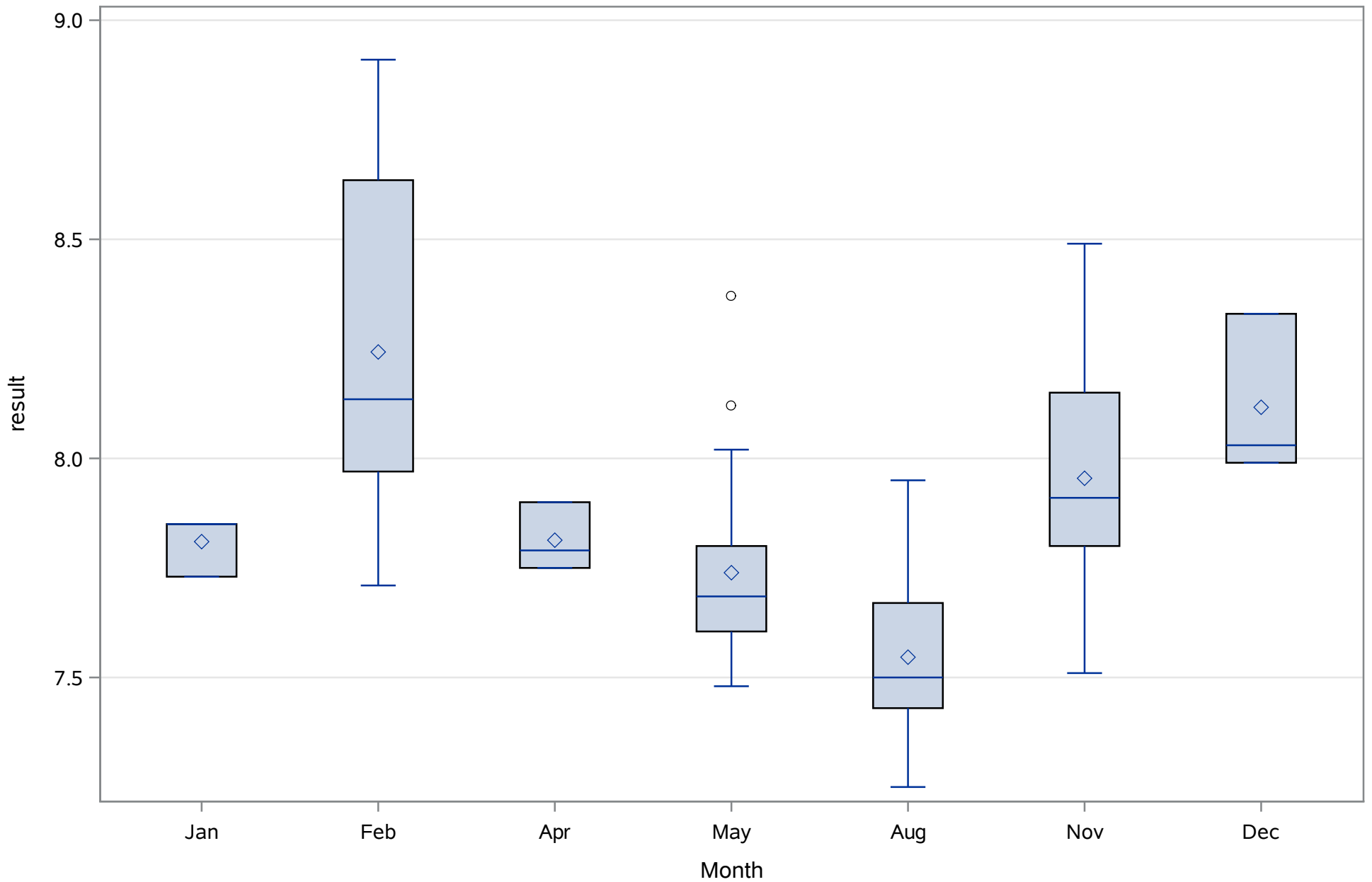
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TN_ugl



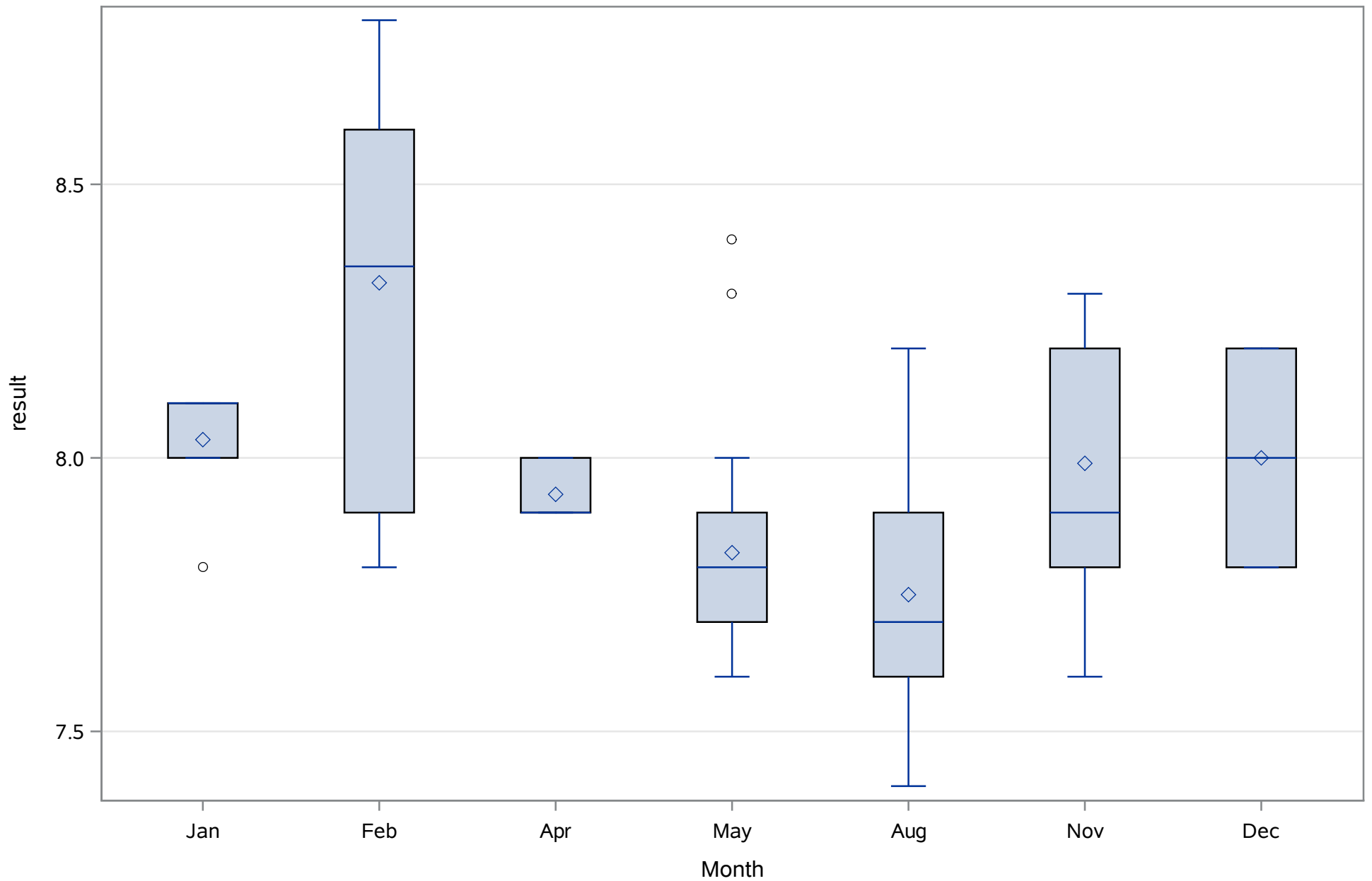
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 8
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	134	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	159.173913	Sum Observations	21966
Std Deviation	8.34818311	Variance	69.6921612
Skewness	0.49034887	Kurtosis	-0.0819944
Uncorrected SS	3505962	Corrected SS	9547.82609
Coeff Variation	5.24469302	Std Error Mean	0.71064454

Basic Statistical Measures			
Location		Variability	
Mean	159.1739	Std Deviation	8.34818
Median	159.5000	Variance	69.69216
Mode	152.0000	Range	40.00000
		Interquartile Range	14.00000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	223.9853	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	184.0
99%	184.0
95%	171.0
90%	170.0
75% Q3	166.0
50% Median	159.5
25% Q1	152.0
10%	149.0
5%	148.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

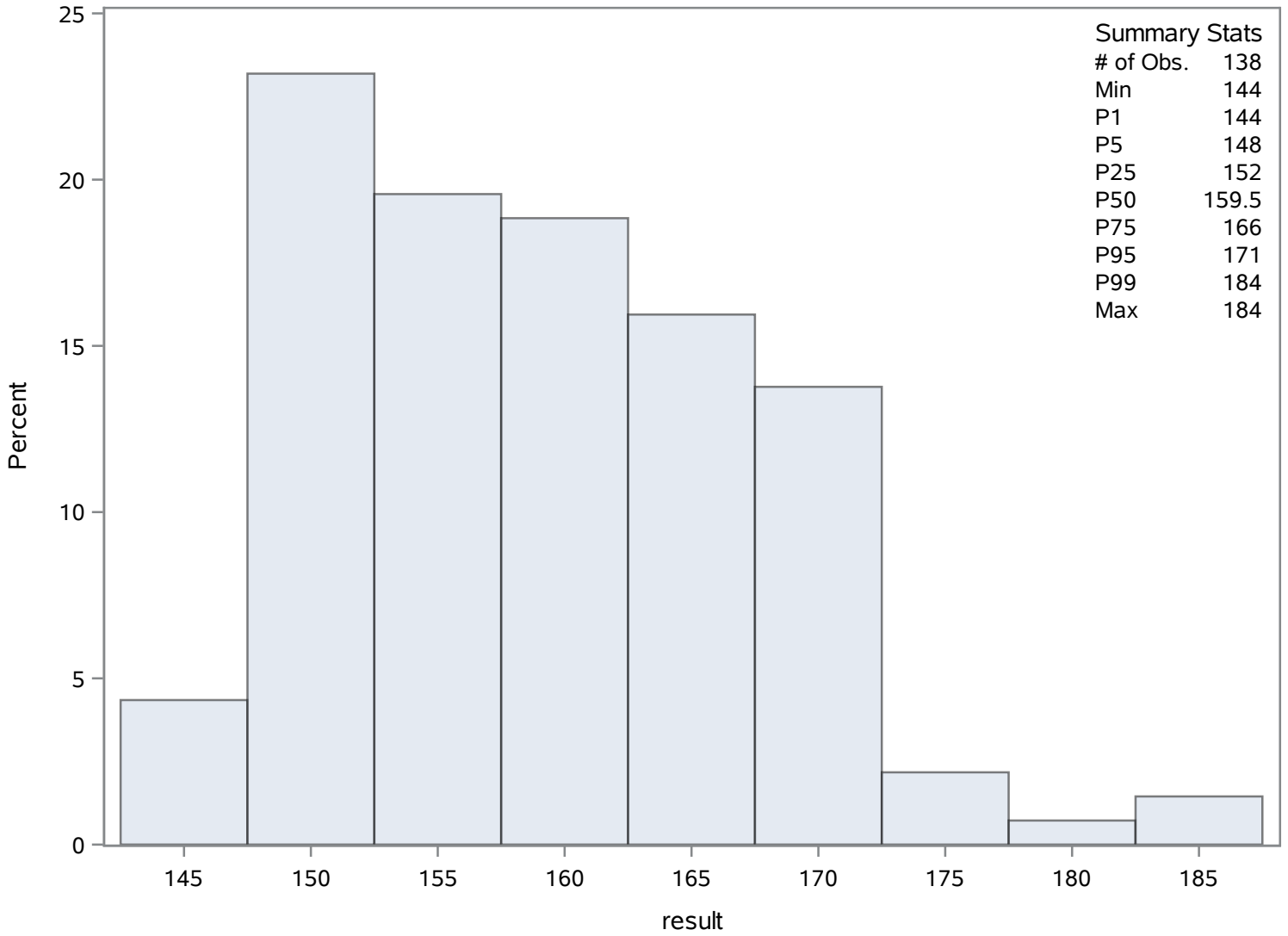
Quantiles (Definition 5)	
Level	Quantile
1%	144.0
0% Min	144.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
144	135	175	97
144	134	176	98
144	133	181	112
146	5	184	113
147	8	184	114

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	9.51120523	Sum Observations	1312.54632
Std Deviation	11.5905049	Variance	134.339805
Skewness	2.97293477	Kurtosis	10.5953543
Uncorrected SS	30888.4507	Corrected SS	18404.5532
Coeff Variation	121.86158	Std Error Mean	0.9866493

Basic Statistical Measures			
Location		Variability	
Mean	9.511205	Std Deviation	11.59050
Median	5.400000	Variance	134.33980
Mode	2.600000	Range	71.00000
		Interquartile Range	5.94000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.639905	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	71.60
99%	64.92
95%	31.40
90%	25.40
75% Q3	9.20
50% Median	5.40
25% Q1	3.26
10%	2.16
5%	1.70

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

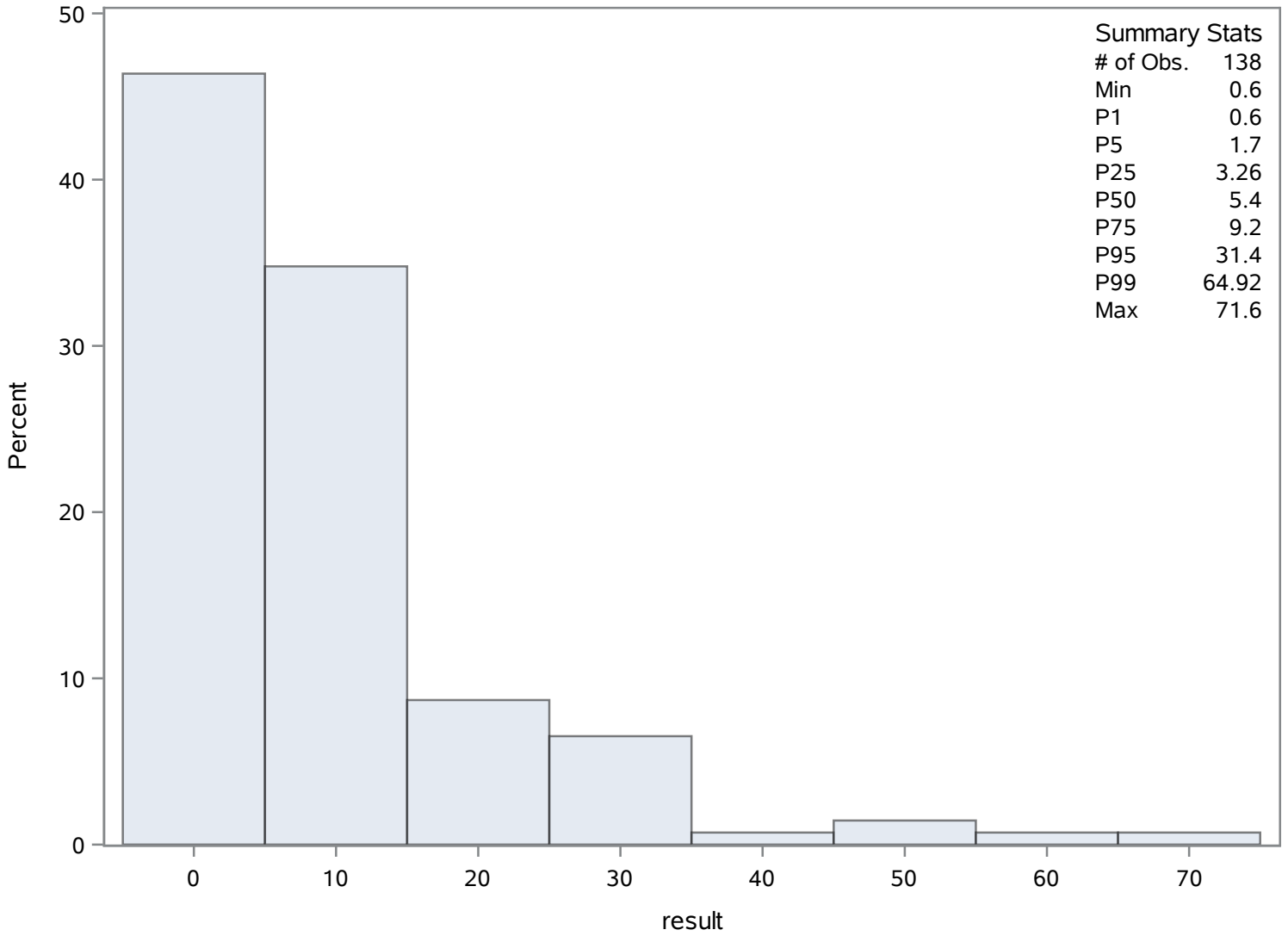
Quantiles (Definition 5)	
Level	Quantile
1%	0.60
0% Min	0.60

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60000	204	35.40	173
0.60000	203	49.90	140
1.30000	159	52.70	139
1.30000	157	64.92	263
1.56322	231	71.60	141

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	6.02871796	Sum Observations	434.067693
Std Deviation	8.84698282	Variance	78.269105
Skewness	4.05828889	Kurtosis	21.0291157
Uncorrected SS	8173.97815	Corrected SS	5557.10646
Coeff Variation	146.747333	Std Error Mean	1.04262692

Basic Statistical Measures			
Location		Variability	
Mean	6.028718	Std Deviation	8.84698
Median	3.350860	Variance	78.26911
Mode	1.340000	Range	60.64035
		Interquartile Range	4.07500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	5.782239	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	60.780000
99%	60.780000
95%	23.240000
90%	15.194464
75% Q3	5.810000
50% Median	3.350860
25% Q1	1.735000
10%	1.120000
5%	0.893792
1%	0.139655
0% Min	0.139655

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_cor_ugl

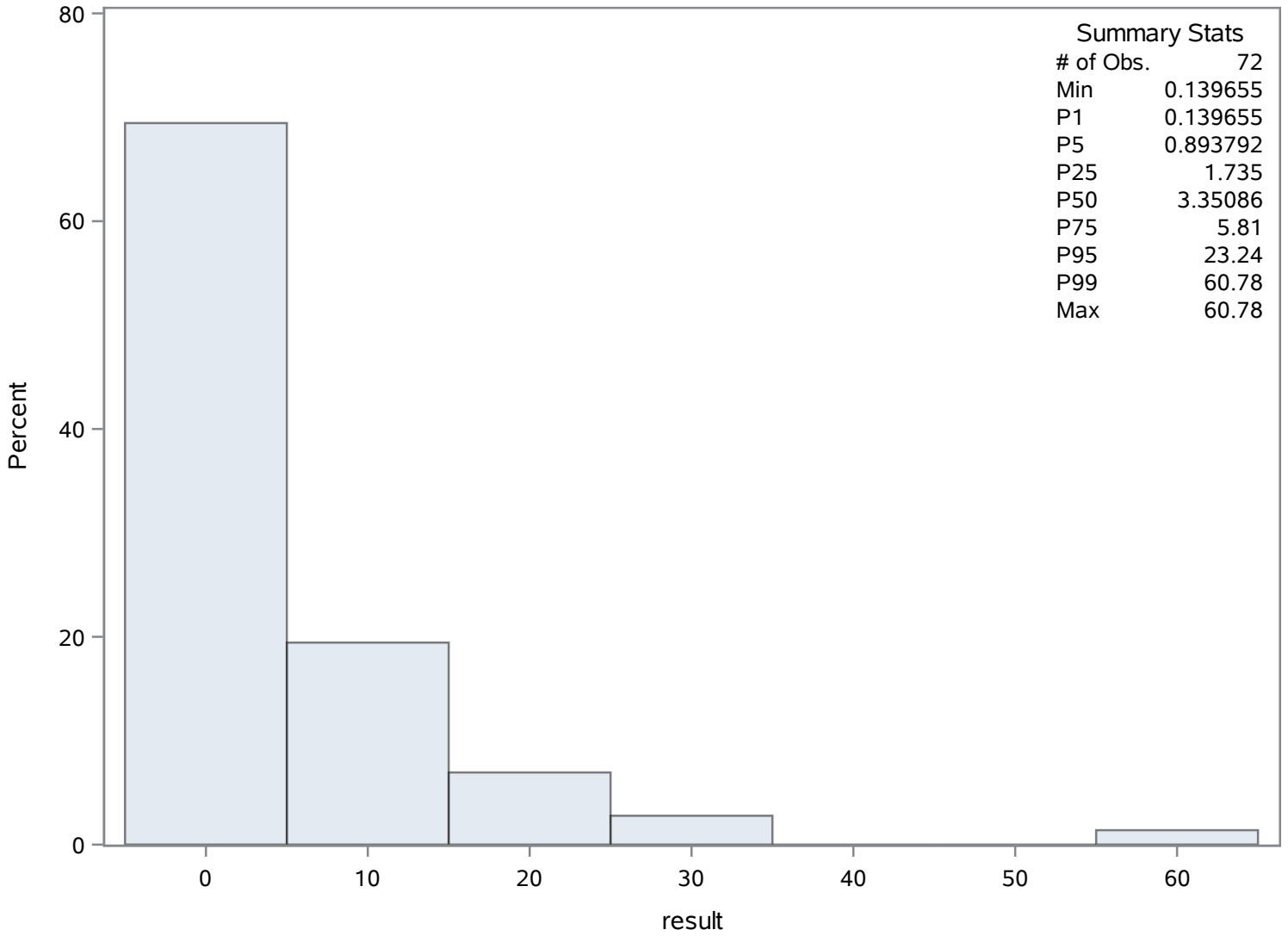
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.139655	310	17.6524	284
0.782068	303	23.2400	336
0.890000	347	26.0317	299
0.893792	302	30.3900	334
0.893792	278	60.7800	335

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	16.2826087	Sum Observations	2247
Std Deviation	16.4325603	Variance	270.029038
Skewness	3.82028447	Kurtosis	17.7491101
Uncorrected SS	73581	Corrected SS	36993.9783
Coeff Variation	100.920931	Std Error Mean	1.39883243

Basic Statistical Measures			
Location		Variability	
Mean	16.28261	Std Deviation	16.43256
Median	12.00000	Variance	270.02904
Mode	4.00000	Range	104.00000
		Interquartile Range	12.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.64014	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	106
99%	105
95%	35
90%	27
75% Q3	20
50% Median	12
25% Q1	8
10%	4
5%	4
1%	2
0% Min	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
COLOR_PtCo

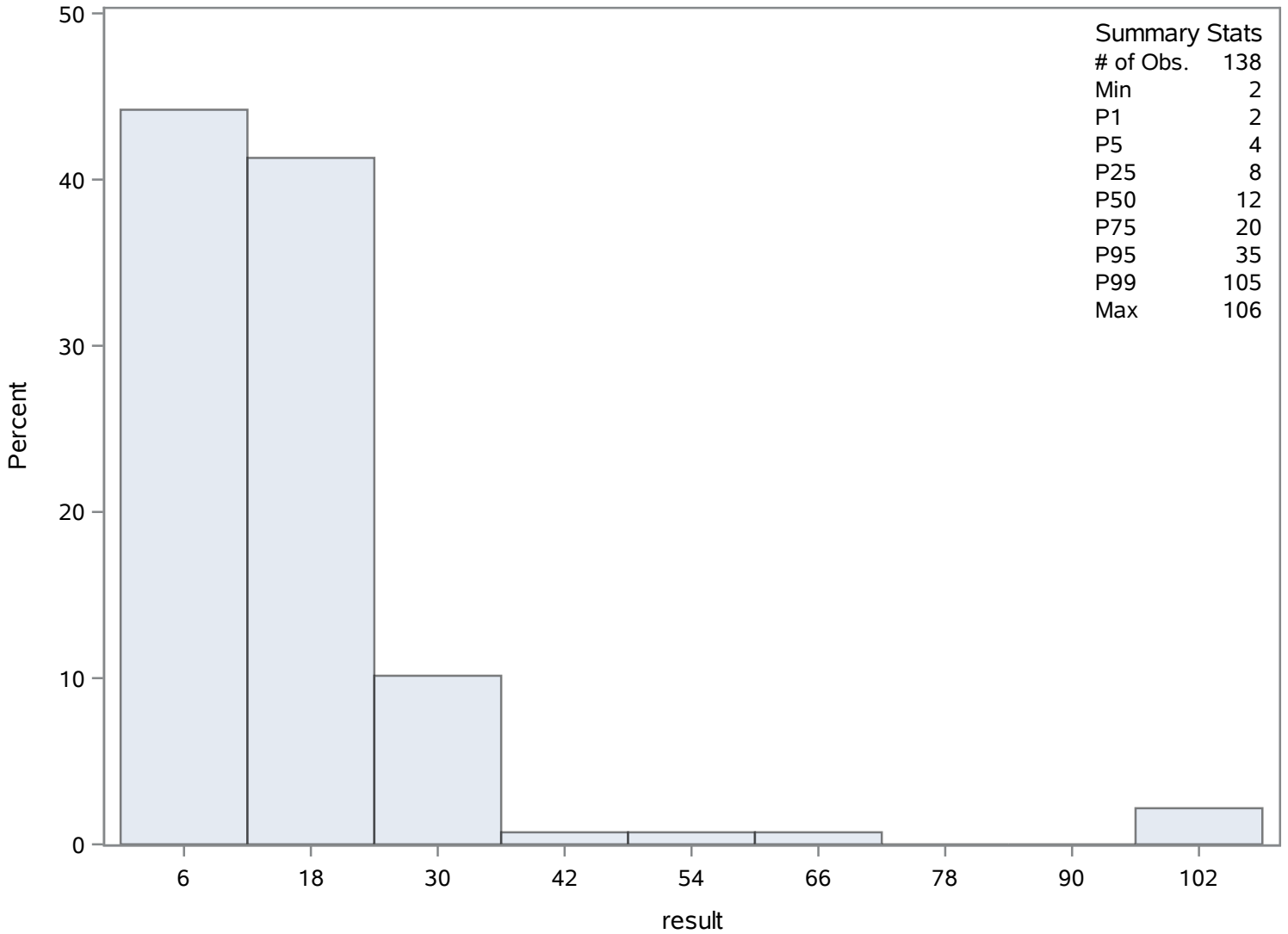
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	453	49	434
2	369	68	433
2	368	105	481
3	452	105	482
3	451	106	483

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.9357971	Sum Observations	957.14
Std Deviation	2.31581986	Variance	5.36302162
Skewness	0.3674004	Kurtosis	0.24280442
Uncorrected SS	7373.2628	Corrected SS	734.733962
Coeff Variation	33.389383	Std Error Mean	0.19713568

Basic Statistical Measures			
Location		Variability	
Mean	6.935797	Std Deviation	2.31582
Median	6.685000	Variance	5.36302
Mode	3.600000	Range	12.10000
		Interquartile Range	3.02000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	35.18286	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.400
99%	13.100
95%	10.610
90%	10.050
75% Q3	8.500
50% Median	6.685
25% Q1	5.480
10%	3.770
5%	3.080

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
DO_mgL

The UNIVARIATE Procedure
Variable: result

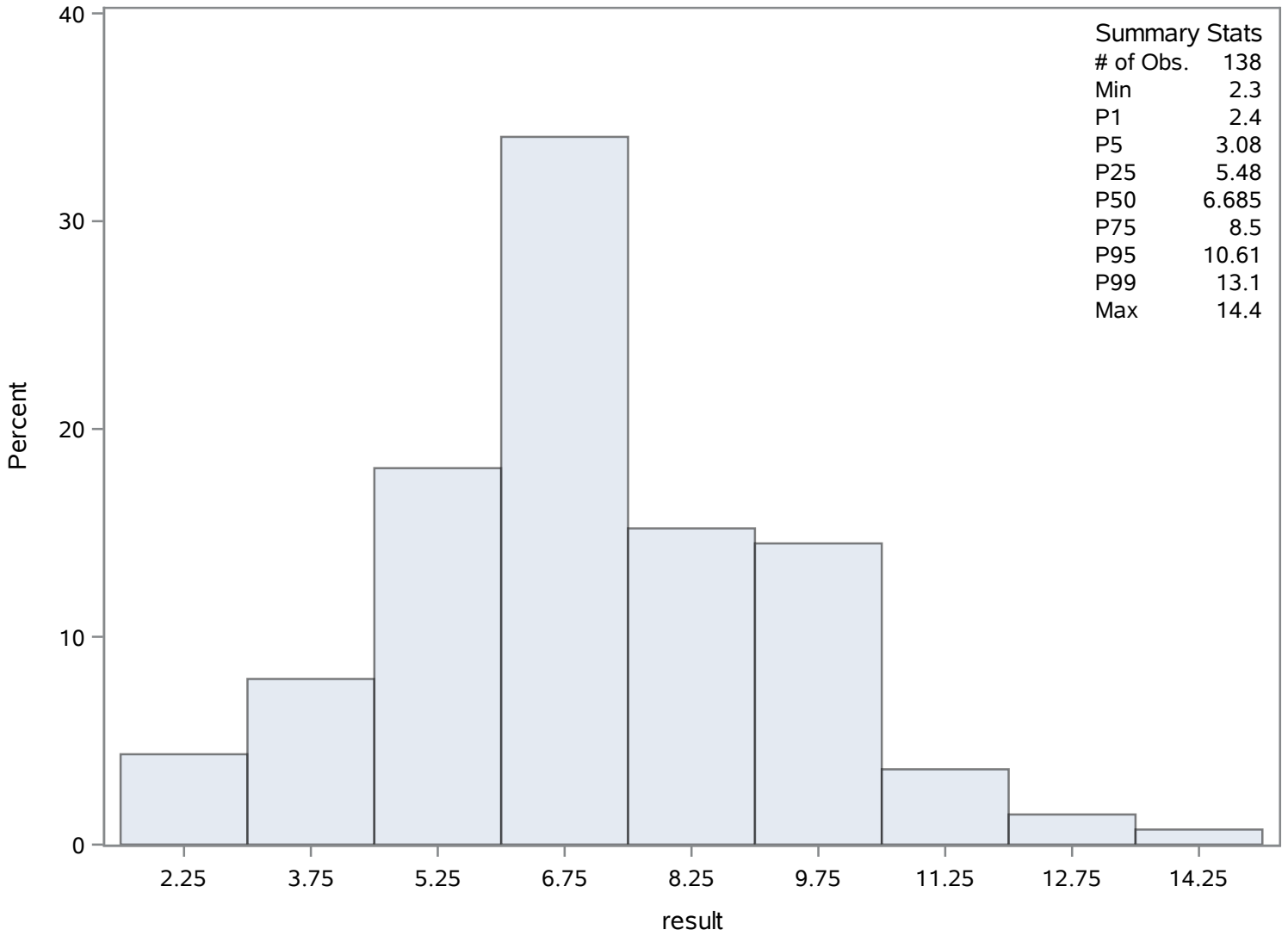
Quantiles (Definition 5)	
Level	Quantile
1%	2.400
0% Min	2.300

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.30	511	10.88	577
2.40	513	11.15	578
2.50	512	13.00	494
2.61	557	13.10	493
2.77	619	14.40	495

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	33.9708029	Sum Observations	4654
Std Deviation	20.5053263	Variance	420.468406
Skewness	1.19586138	Kurtosis	1.60829418
Uncorrected SS	215283.82	Corrected SS	57183.7032
Coeff Variation	60.361618	Std Error Mean	1.75188825

Basic Statistical Measures			
Location		Variability	
Mean	33.97080	Std Deviation	20.50533
Median	29.10000	Variance	420.46841
Mode	16.00000	Range	111.00000
		Interquartile Range	24.00000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.39096	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	112.0
99%	94.0
95%	78.0
90%	61.0
75% Q3	43.0
50% Median	29.1
25% Q1	19.0
10%	13.0
5%	8.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NH4_ugl

The UNIVARIATE Procedure
Variable: result

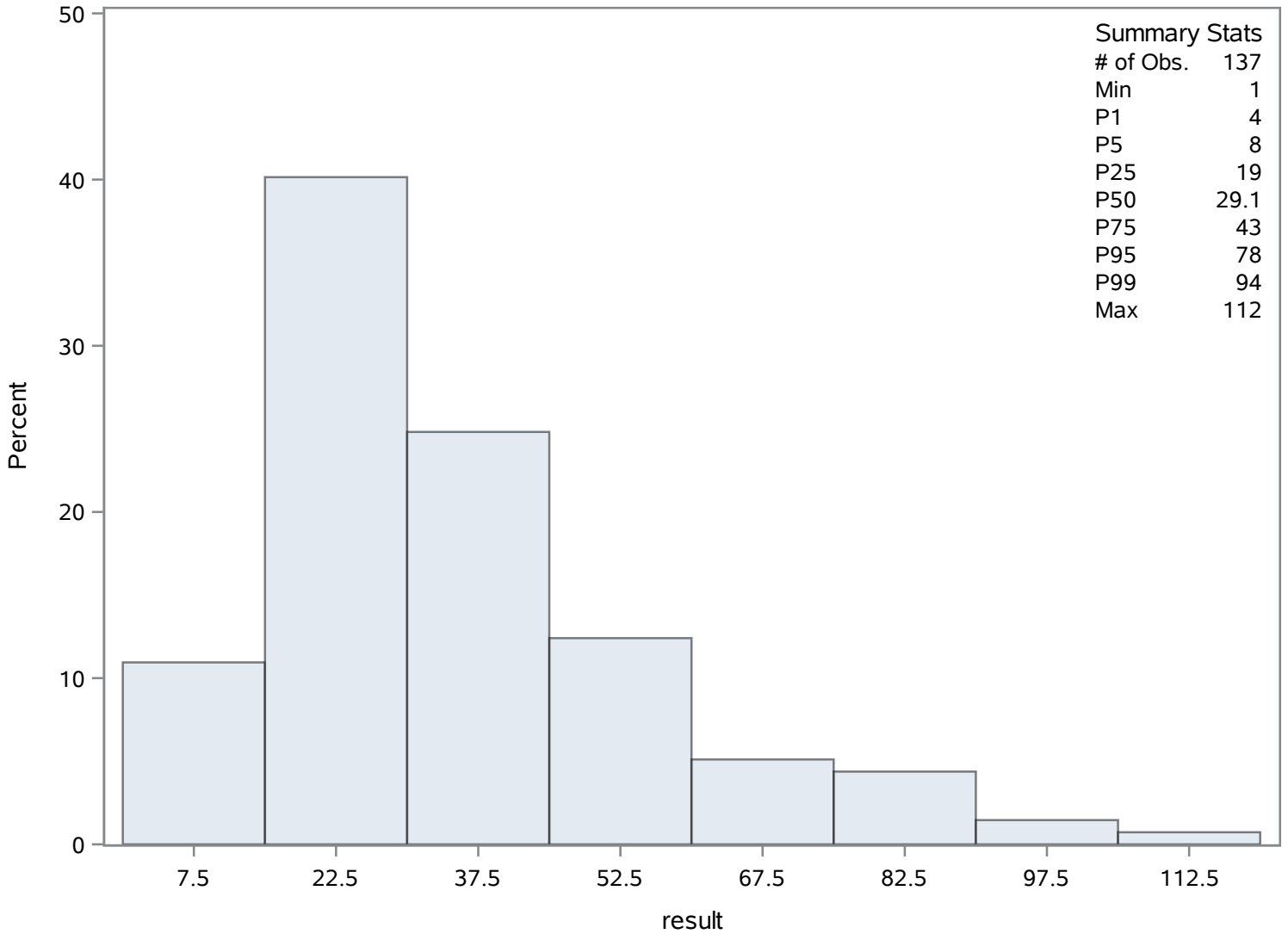
Quantiles (Definition 5)	
Level	Quantile
1%	4.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	668	84	760
4	696	89	759
5	669	90	756
5	657	94	758
6	655	112	757

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	194.94058	Sum Observations	26901.8
Std Deviation	122.795733	Variance	15078.7921
Skewness	0.03372862	Kurtosis	-1.1354099
Uncorrected SS	7310047	Corrected SS	2065794.51
Coeff Variation	62.9913655	Std Error Mean	10.453067

Basic Statistical Measures			
Location		Variability	
Mean	194.9406	Std Deviation	122.79573
Median	200.5000	Variance	15079
Mode	30.0000	Range	444.00000
		Interquartile Range	222.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.64913	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	449.0
99%	427.0
95%	391.0
90%	359.0
75% Q3	295.0
50% Median	200.5
25% Q1	73.0
10%	30.0
5%	19.0
1%	11.0
0% Min	5.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NO3_ugL

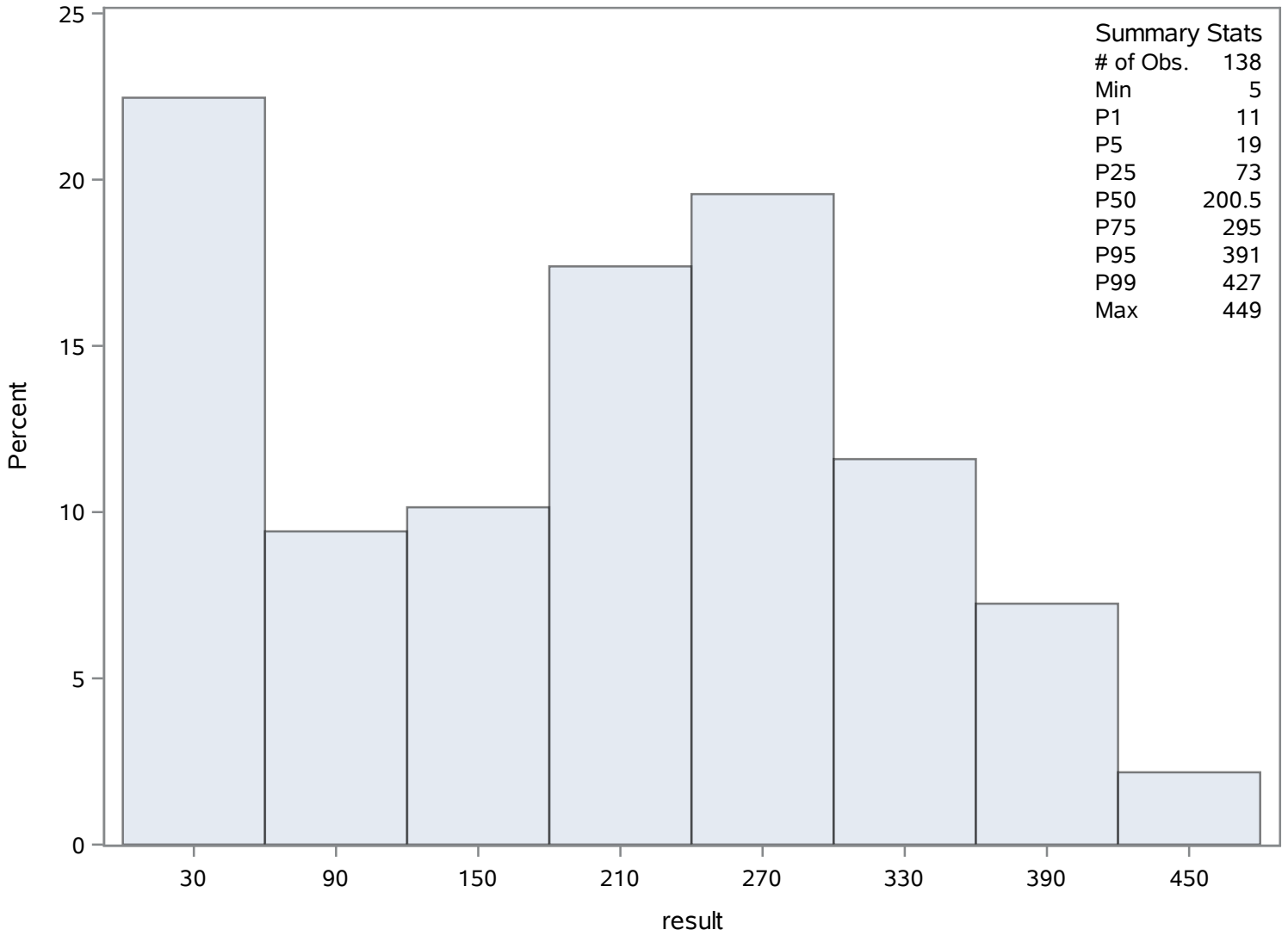
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	771	407	876
11	772	418	899
12	836	426	825
12	773	427	898
14	784	449	897

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	3.55427536	Sum Observations	490.49
Std Deviation	2.18752498	Variance	4.78526553
Skewness	2.38185084	Kurtosis	5.86623409
Uncorrected SS	2398.9179	Corrected SS	655.581378
Coeff Variation	61.5463	Std Error Mean	0.18621449

Basic Statistical Measures			
Location		Variability	
Mean	3.554275	Std Deviation	2.18752
Median	2.905000	Variance	4.78527
Mode	2.900000	Range	10.80000
		Interquartile Range	1.42000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.087	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.310
99%	12.220
95%	9.640
90%	6.030
75% Q3	3.630
50% Median	2.905
25% Q1	2.210
10%	1.860
5%	1.770

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SAL_Perc

The UNIVARIATE Procedure
Variable: result

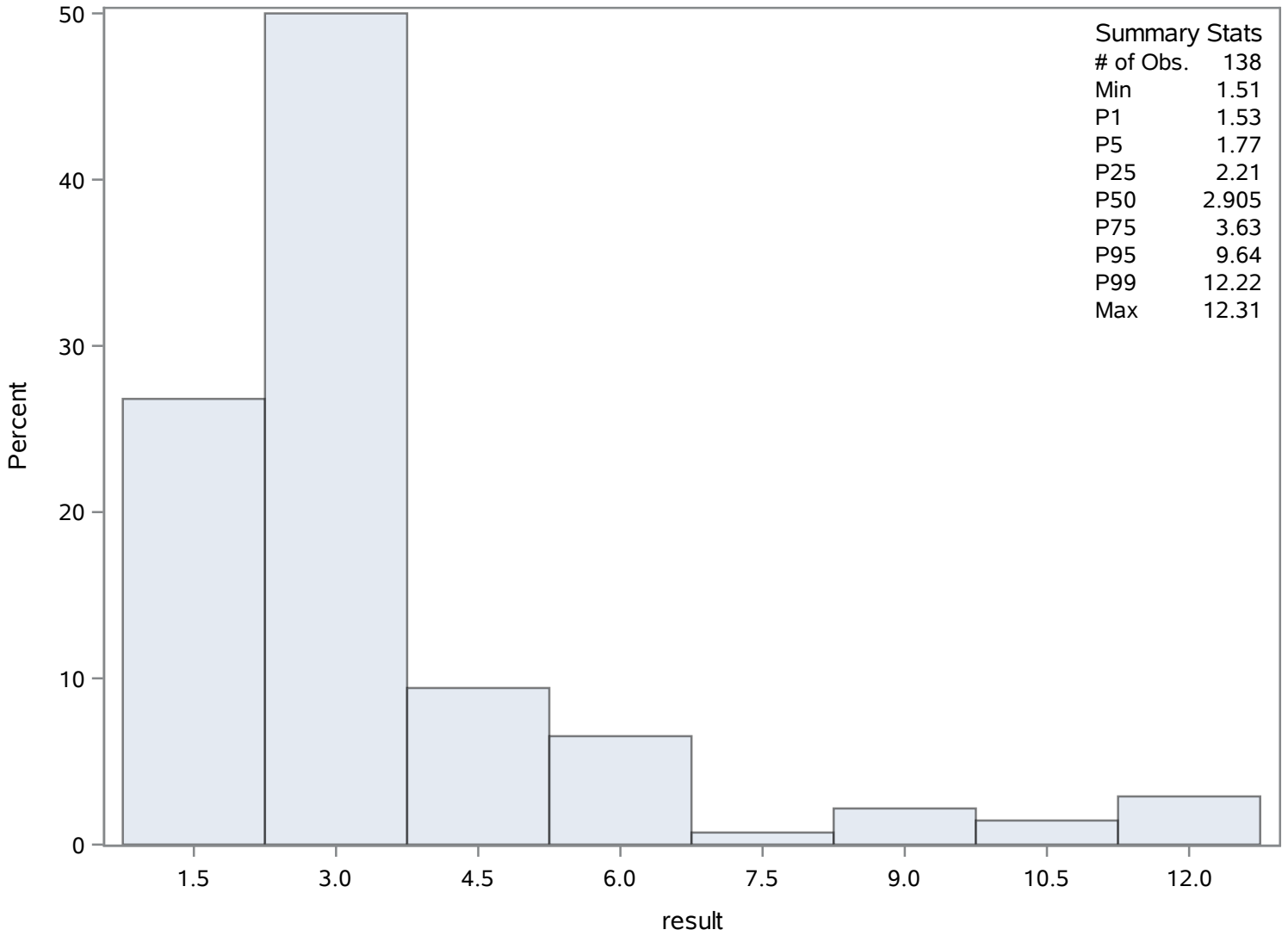
Quantiles (Definition 5)	
Level	Quantile
1%	1.530
0% Min	1.510

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.51	938	10.17	1011
1.53	937	11.56	981
1.67	966	11.58	941
1.67	936	12.22	940
1.70	967	12.31	939

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.40622464	Sum Observations	884.059
Std Deviation	3.59791108	Variance	12.9449642
Skewness	2.28994405	Kurtosis	5.4869658
Uncorrected SS	7436.94064	Corrected SS	1773.46009
Coeff Variation	56.1627368	Std Error Mean	0.30627453

Basic Statistical Measures			
Location		Variability	
Mean	6.406225	Std Deviation	3.59791
Median	5.400500	Variance	12.94496
Mode	3.510000	Range	17.72000
		Interquartile Range	2.49200

Note: The mode displayed is the smallest of 8 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	20.91661	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	20.6300
99%	20.4100
95%	16.4300
90%	10.5500
75% Q3	6.6240
50% Median	5.4005
25% Q1	4.1320
10%	3.5200
5%	3.3650

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	2.9500
0% Min	2.9100

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.910	1076	17.31	1149
2.950	1075	19.40	1119
3.184	1104	19.43	1079
3.200	1074	20.41	1078
3.248	1105	20.63	1077

Chassahowitzka River - Fixed Station

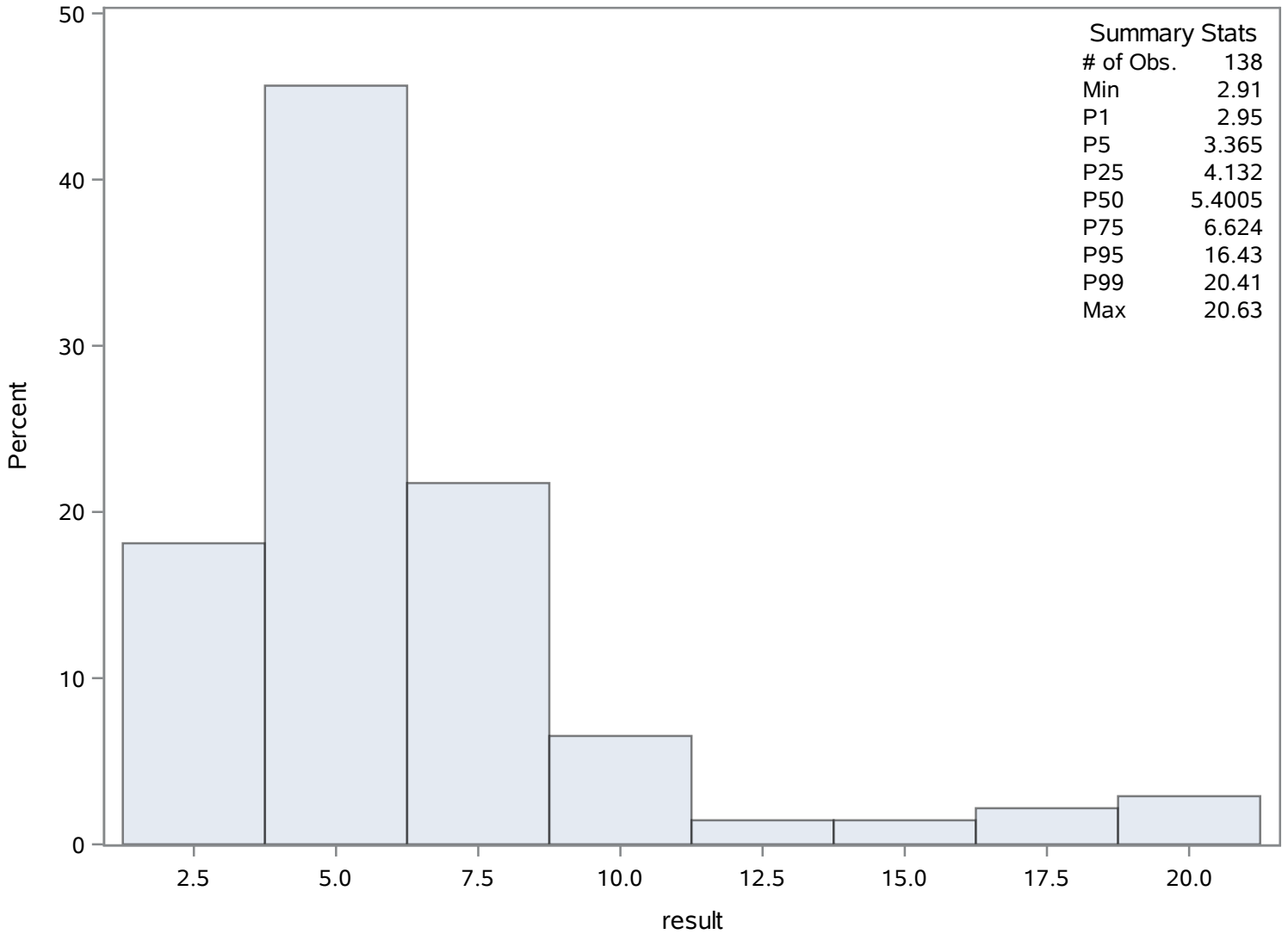
Source: UF 5 Rivers Study

Transect 9

SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	134	Sum Weights	134
Mean	7.5895224	Sum Observations	1017
Std Deviation	4.9146286	Variance	24.1535742
Skewness	0.94313529	Kurtosis	0.49647402
Uncorrected SS	10931	Corrected SS	3212.42537
Coeff Variation	64.755185	Std Error Mean	0.42455925

Basic Statistical Measures			
Location		Variability	
Mean	7.589552	Std Deviation	4.91463
Median	7.000000	Variance	24.15357
Mode	4.000000	Range	22.00000
		Interquartile Range	7.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.87631	Pr > t 	<.0001
Sign	M	67	Pr >= M 	<.0001
Signed Rank	S	4522.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	23
99%	22
95%	17
90%	15
75% Q3	11
50% Median	7
25% Q1	4
10%	2
5%	2
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SRP_ugL

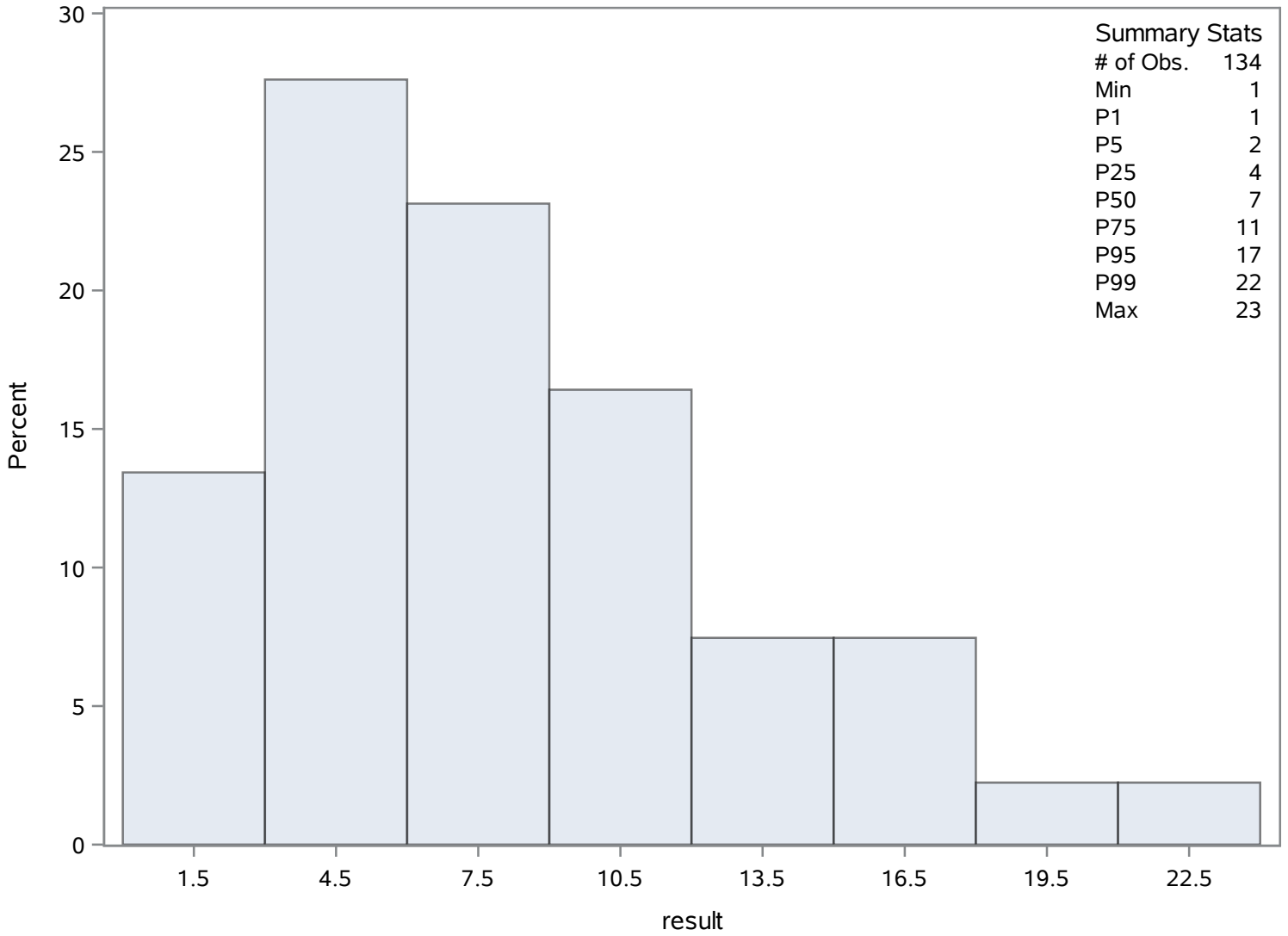
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1246	18	1288
1	1245	18	1292
1	1244	22	1304
1	1234	22	1306
1	1218	23	1305

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.6415217	Sum Observations	3262.53
Std Deviation	3.3923641	Variance	11.5081342
Skewness	0.14948438	Kurtosis	-1.0974509
Uncorrected SS	78707.7883	Corrected SS	1576.61438
Coeff Variation	14.3491783	Std Error Mean	0.28877721

Basic Statistical Measures			
Location		Variability	
Mean	23.64152	Std Deviation	3.39236
Median	22.75000	Variance	11.50813
Mode	25.80000	Range	13.18000
		Interquartile Range	5.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	81.86769	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.48
99%	30.23
95%	29.28
90%	28.37
75% Q3	26.48
50% Median	22.75
25% Q1	20.98
10%	19.62
5%	18.38
1%	17.53
0% Min	17.30

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TEMP_C

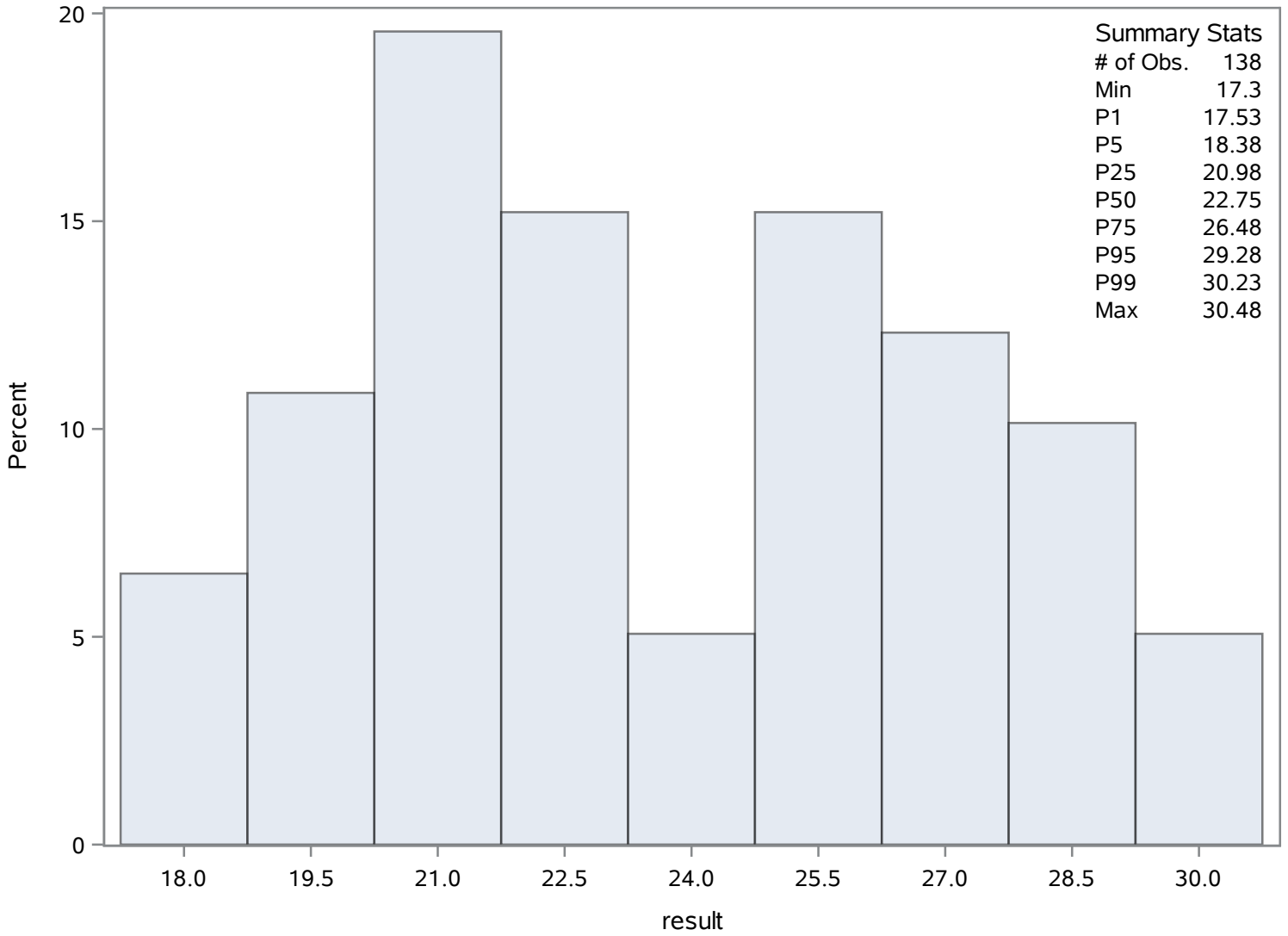
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17.30	1339	29.41	1408
17.53	1425	29.62	1406
17.81	1424	29.79	1395
17.90	1338	30.23	1394
17.90	1337	30.48	1396

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	489.028986	Sum Observations	67486
Std Deviation	153.674836	Variance	23615.9554
Skewness	0.56762448	Kurtosis	0.59516393
Uncorrected SS	36237996	Corrected SS	3235385.88
Coeff Variation	31.4244842	Std Error Mean	13.0816708

Basic Statistical Measures			
Location		Variability	
Mean	489.0290	Std Deviation	153.67484
Median	480.0000	Variance	23616
Mode	480.0000	Range	780.00000
		Interquartile Range	180.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	37.38276	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	970
99%	920
95%	770
90%	670
75% Q3	570
50% Median	480
25% Q1	390
10%	290
5%	250
1%	200
0% Min	190

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TN_ugl

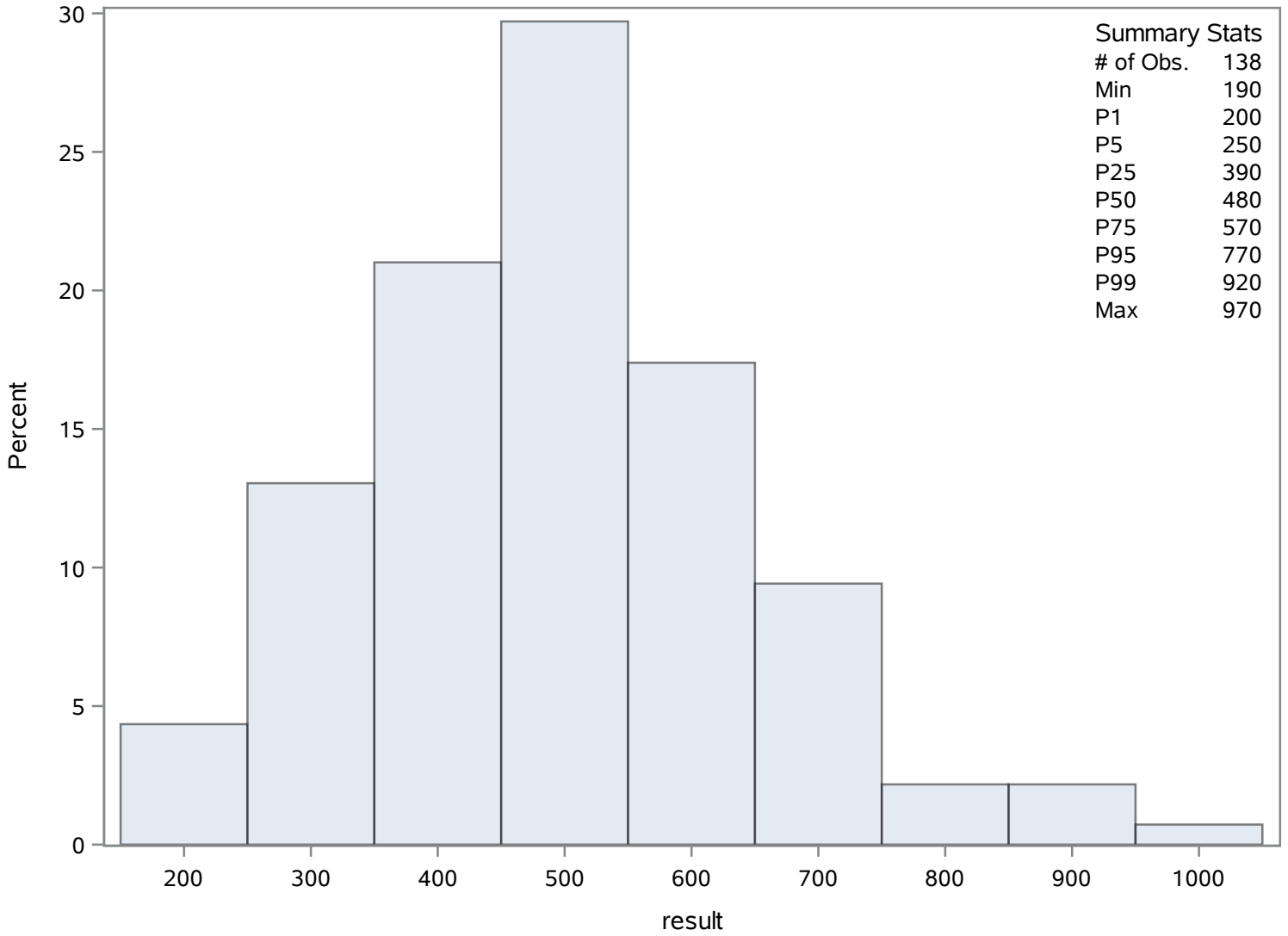
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
190	1522	840	1463
200	1521	890	1581
220	1520	900	1580
230	1519	920	1582
240	1518	970	1513

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	27.2391304	Sum Observations	3759
Std Deviation	9.88514653	Variance	97.7161219
Skewness	0.71050763	Kurtosis	0.46436257
Uncorrected SS	115779	Corrected SS	13387.1087
Coeff Variation	36.2902426	Std Error Mean	0.84147955

Basic Statistical Measures			
Location		Variability	
Mean	27.23913	Std Deviation	9.88515
Median	26.00000	Variance	97.71612
Mode	25.00000	Range	51.00000
		Interquartile Range	14.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.37052	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	60
99%	56
95%	45
90%	41
75% Q3	33
50% Median	26
25% Q1	19
10%	16
5%	14
1%	10
0% Min	9

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TP_ugl

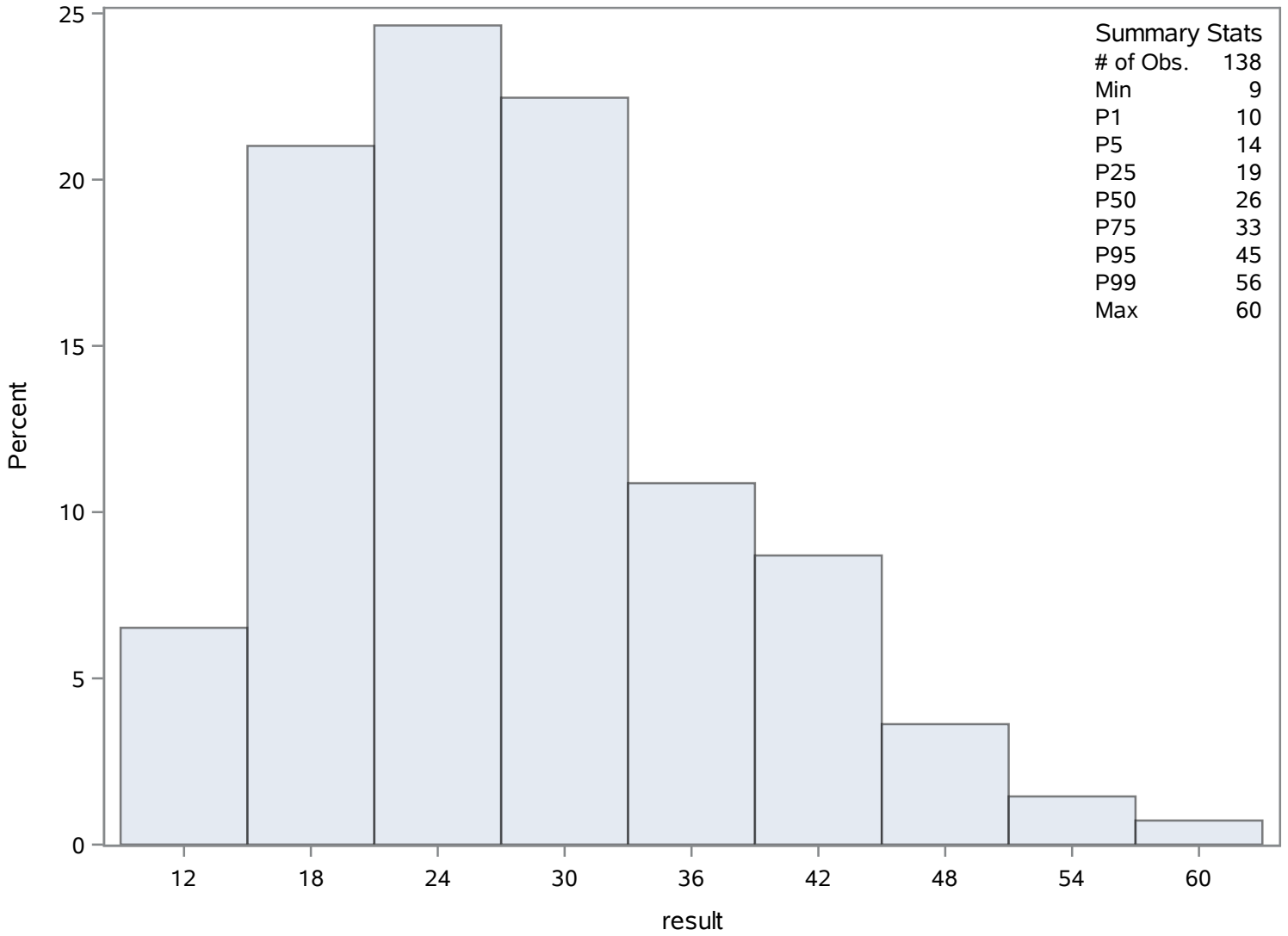
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9	1653	49	1597
10	1652	49	1619
10	1645	53	1651
12	1654	56	1694
12	1644	60	1601

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.77814815	Sum Observations	840.04
Std Deviation	0.25147471	Variance	0.06323953
Skewness	0.4246217	Kurtosis	-0.5450698
Uncorrected SS	6540.7222	Corrected SS	6.76662963
Coeff Variation	3.2330923	Std Error Mean	0.02419817

Basic Statistical Measures			
Location		Variability	
Mean	7.778148	Std Deviation	0.25147
Median	7.760000	Variance	0.06324
Mode	7.800000	Range	0.99000
		Interquartile Range	0.35000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	321.4355	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.320
99%	8.300
95%	8.280
90%	8.150
75% Q3	7.935
50% Median	7.760
25% Q1	7.585
10%	7.460
5%	7.410
1%	7.370
0% Min	7.330

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Field

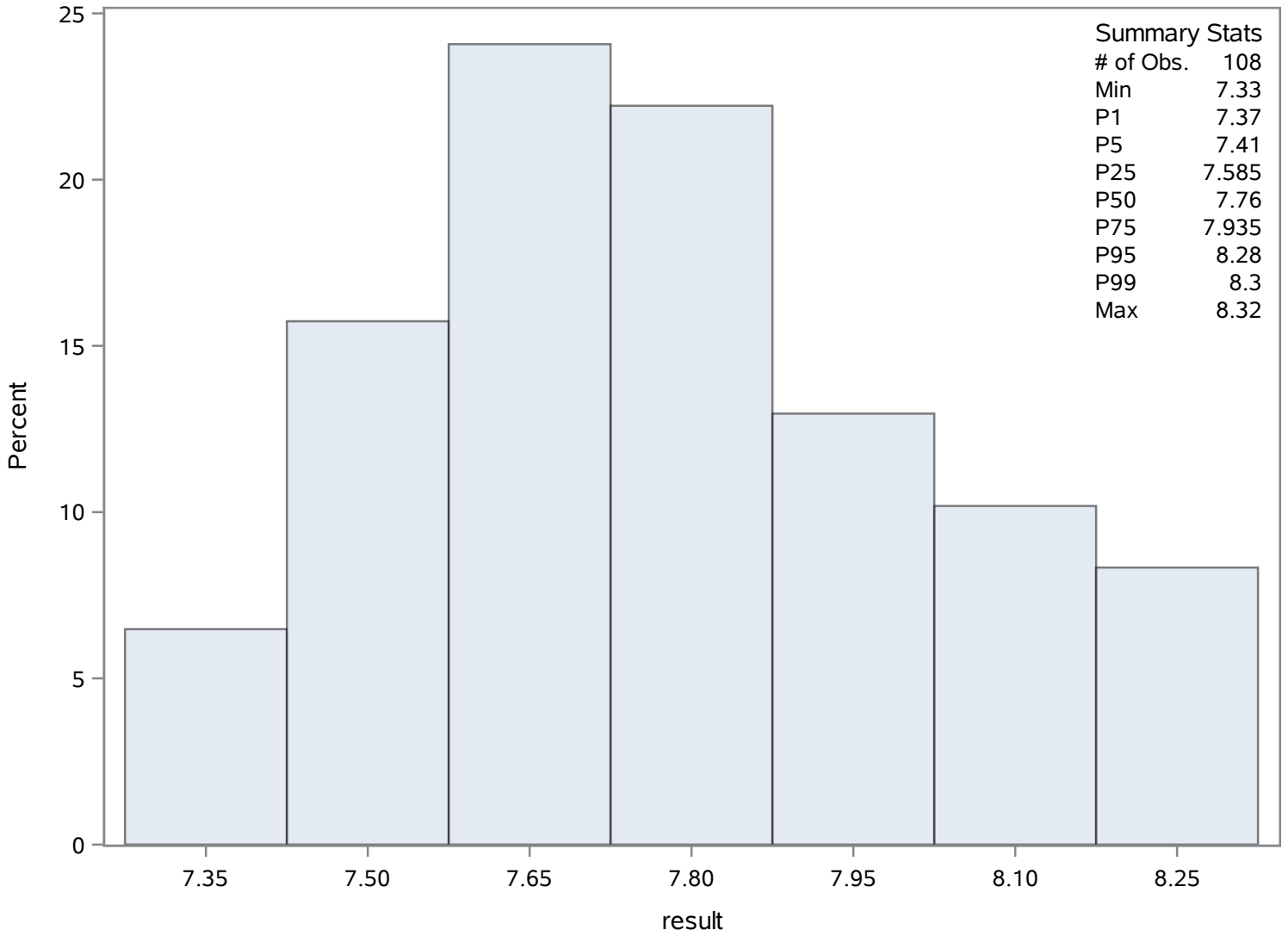
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.33	1727	8.29	1782
7.37	1815	8.30	1737
7.37	1791	8.30	1738
7.38	1790	8.30	1797
7.39	1814	8.32	1783

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.88405797	Sum Observations	1088
Std Deviation	0.20334659	Variance	0.04134984
Skewness	0.44174494	Kurtosis	0.68477497
Uncorrected SS	8583.52	Corrected SS	5.66492754
Coeff Variation	2.57921227	Std Error Mean	0.01731001

Basic Statistical Measures			
Location		Variability	
Mean	7.884058	Std Deviation	0.20335
Median	7.900000	Variance	0.04135
Mode	7.800000	Range	1.10000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	455.4623	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.5
99%	8.5
95%	8.2
90%	8.2
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.7
5%	7.6
1%	7.4
0% Min	7.4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Lab

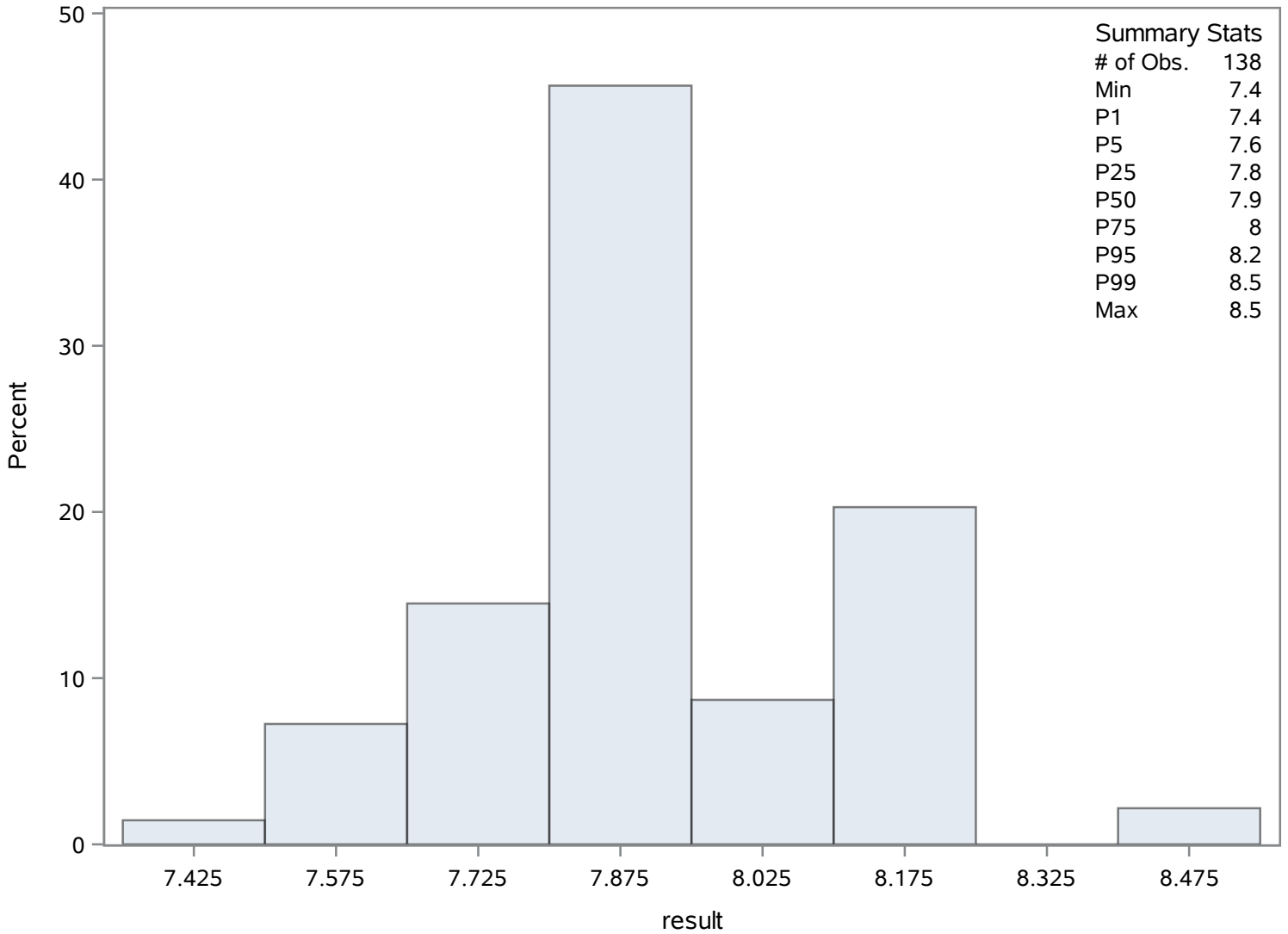
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.4	1965	8.2	1936
7.4	1964	8.2	1963
7.5	1966	8.5	1838
7.5	1858	8.5	1839
7.5	1857	8.5	1840

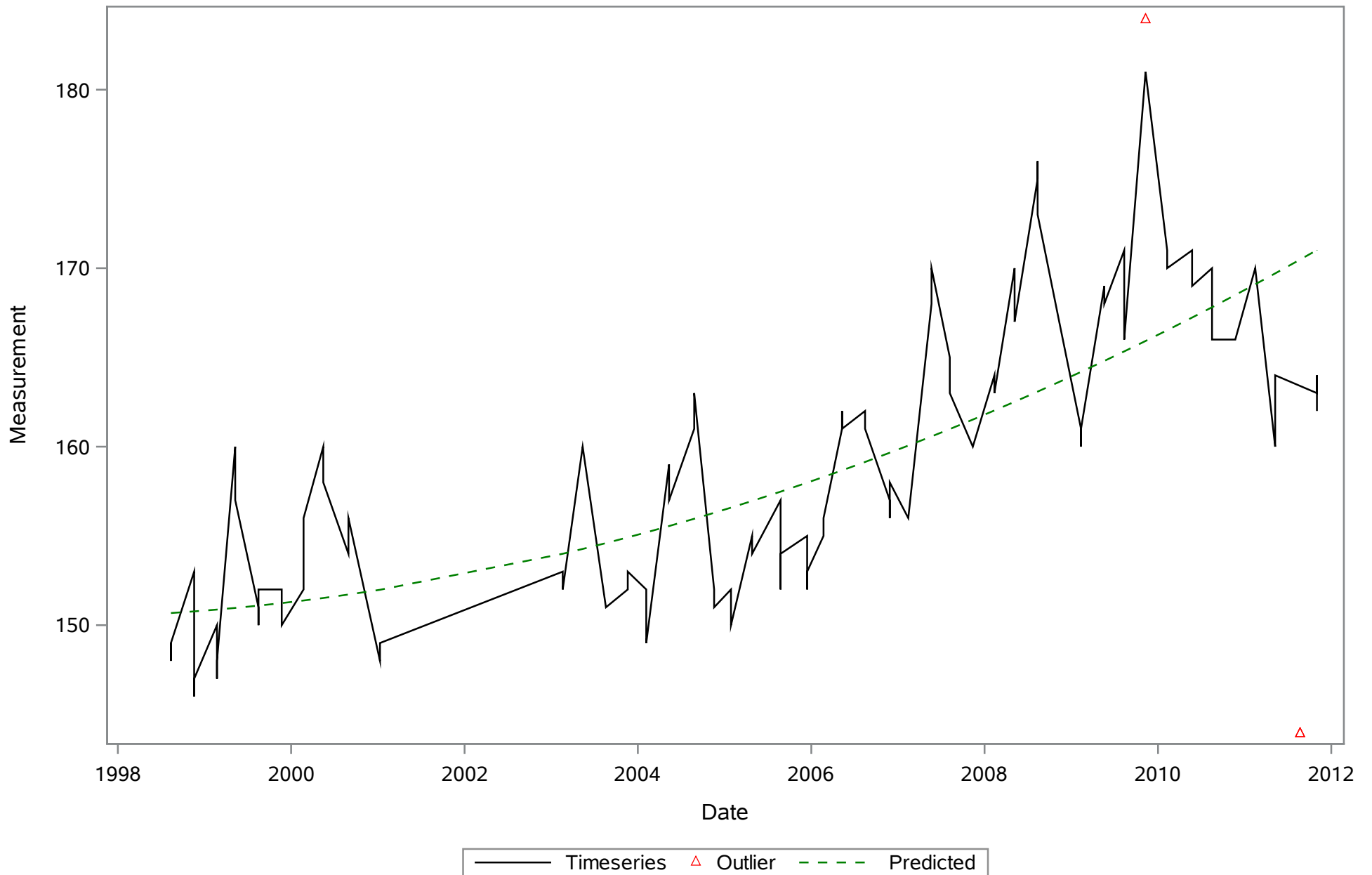
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Lab

The UNIVARIATE Procedure

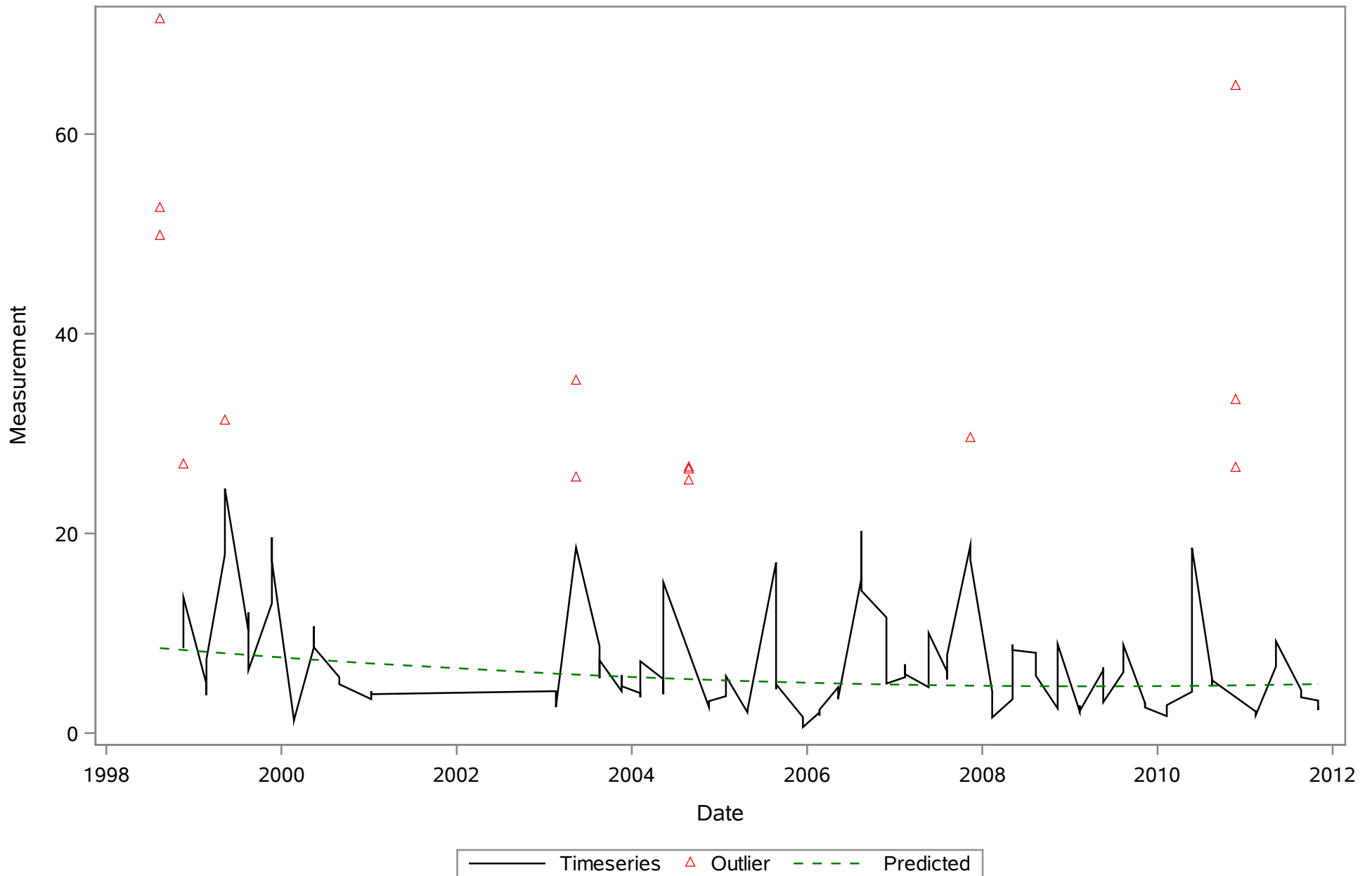
Distribution of result



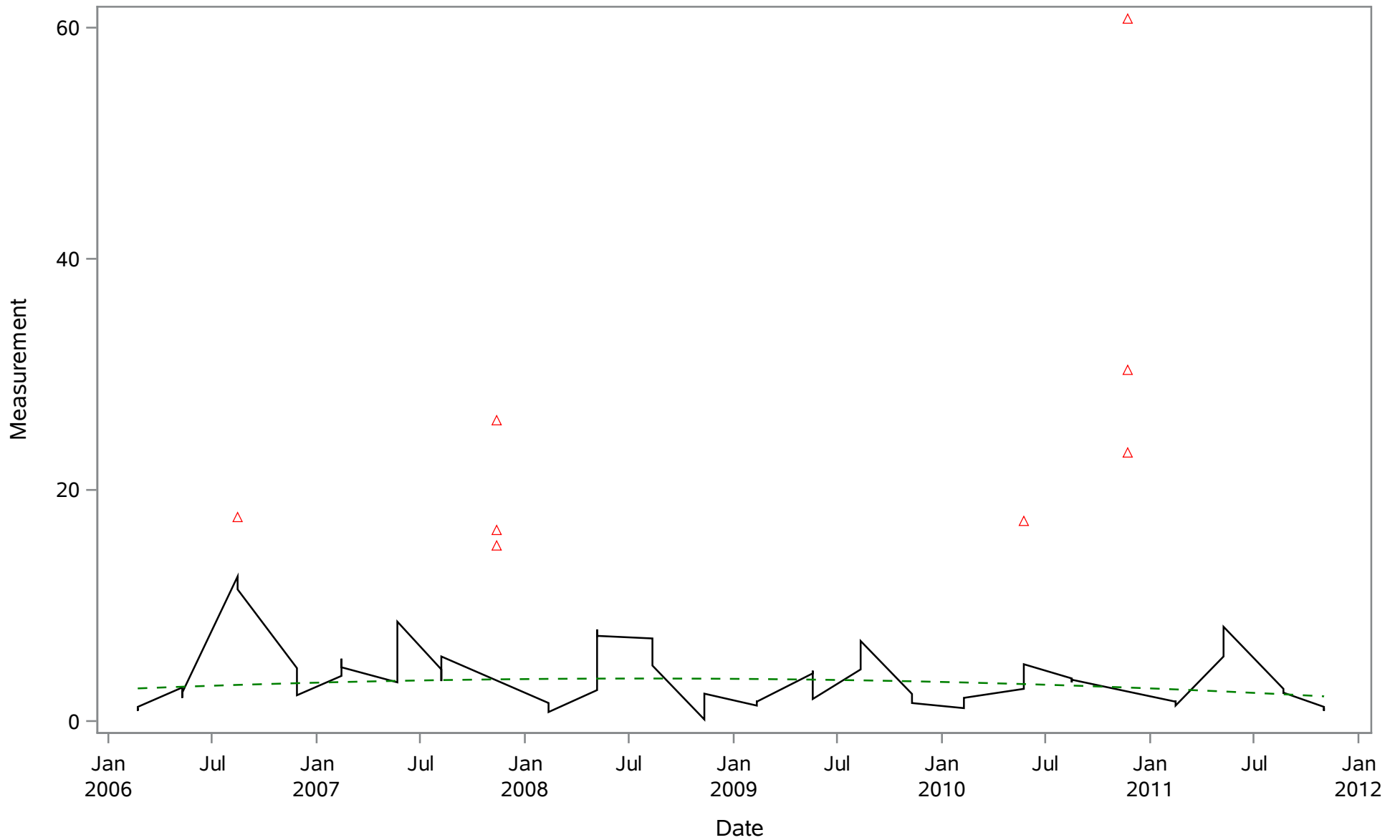
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_Uncor_ugL

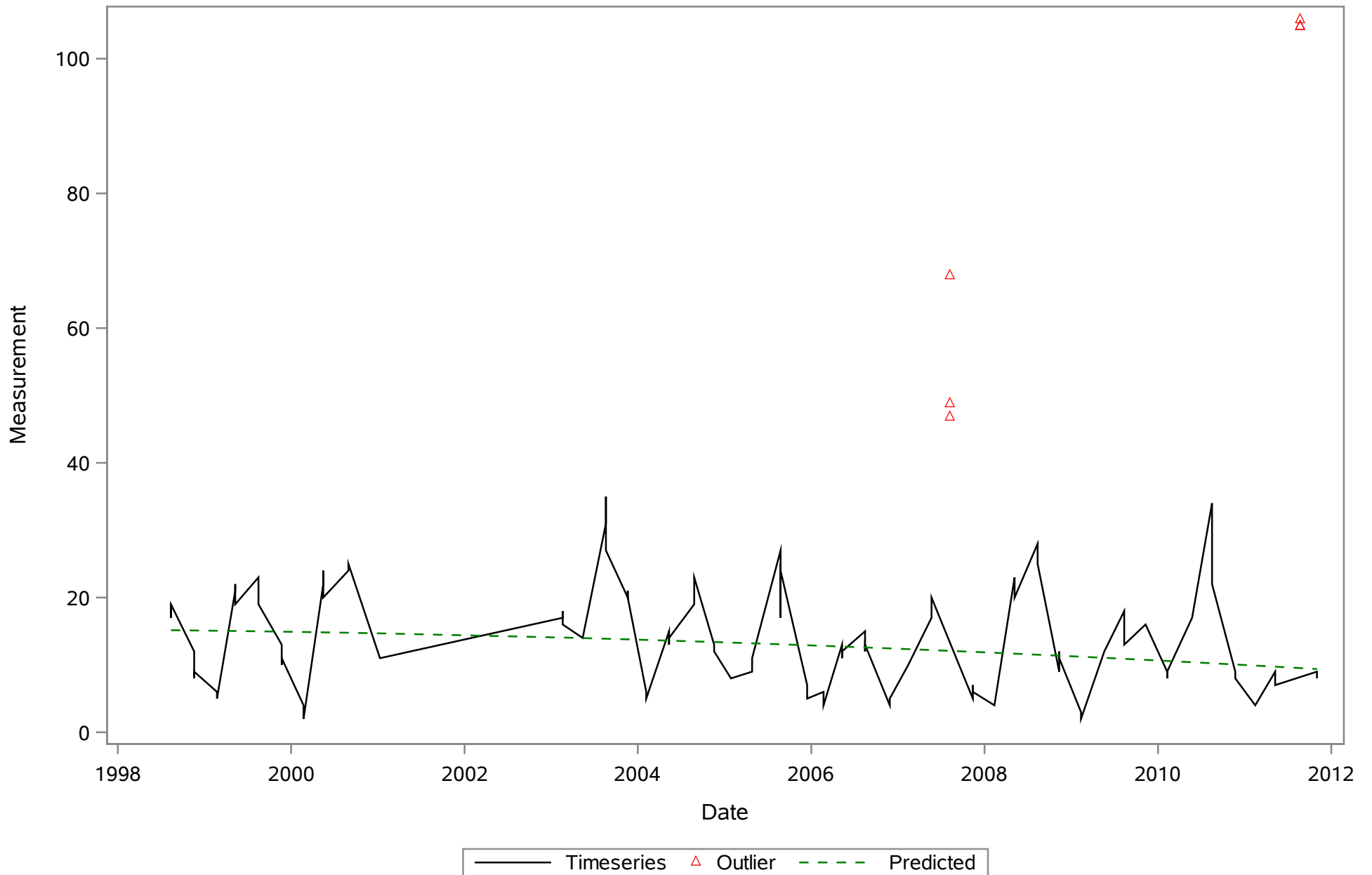


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_cor_ugl

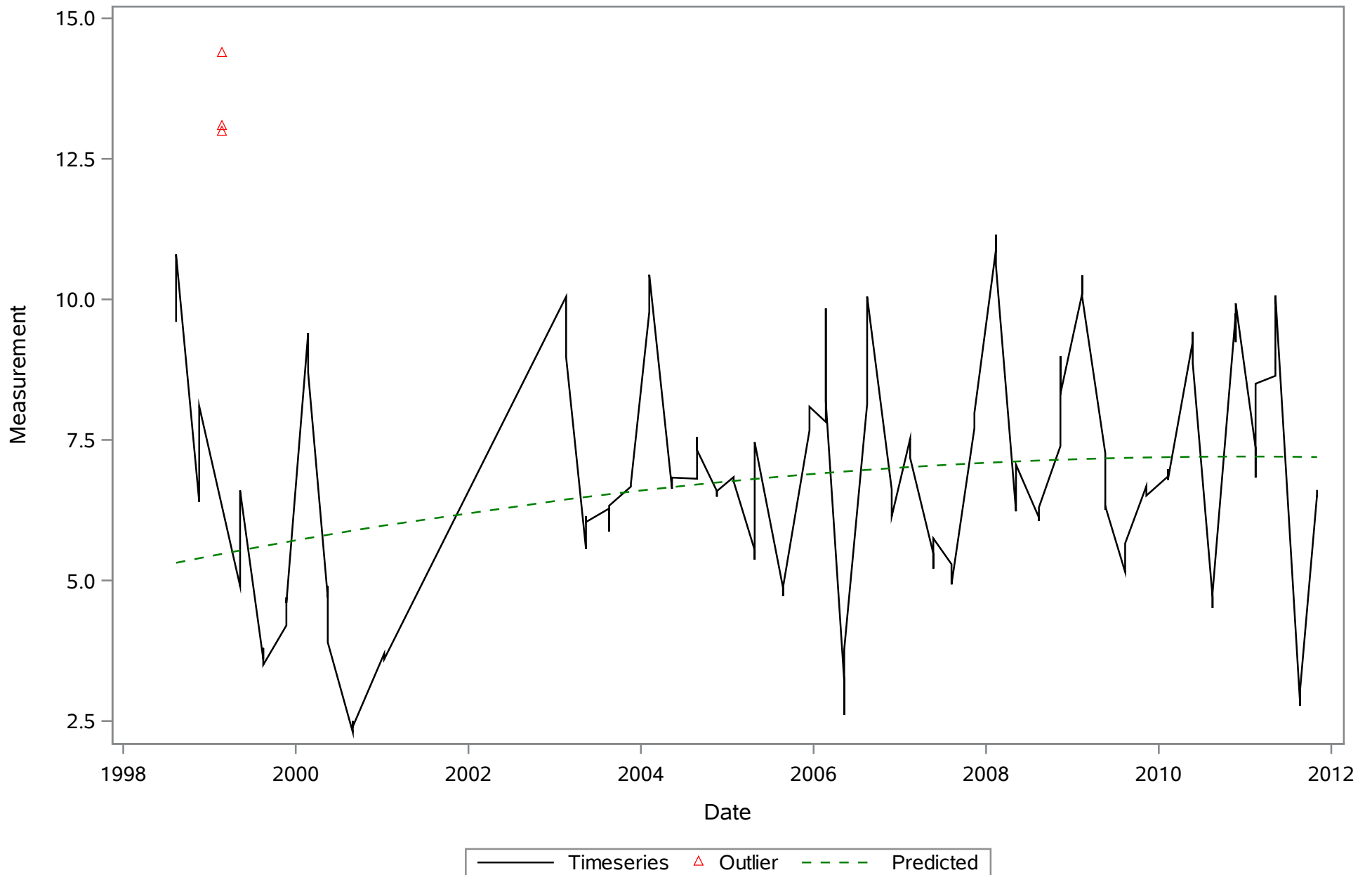


— Timeseries △ Outlier - - - Predicted

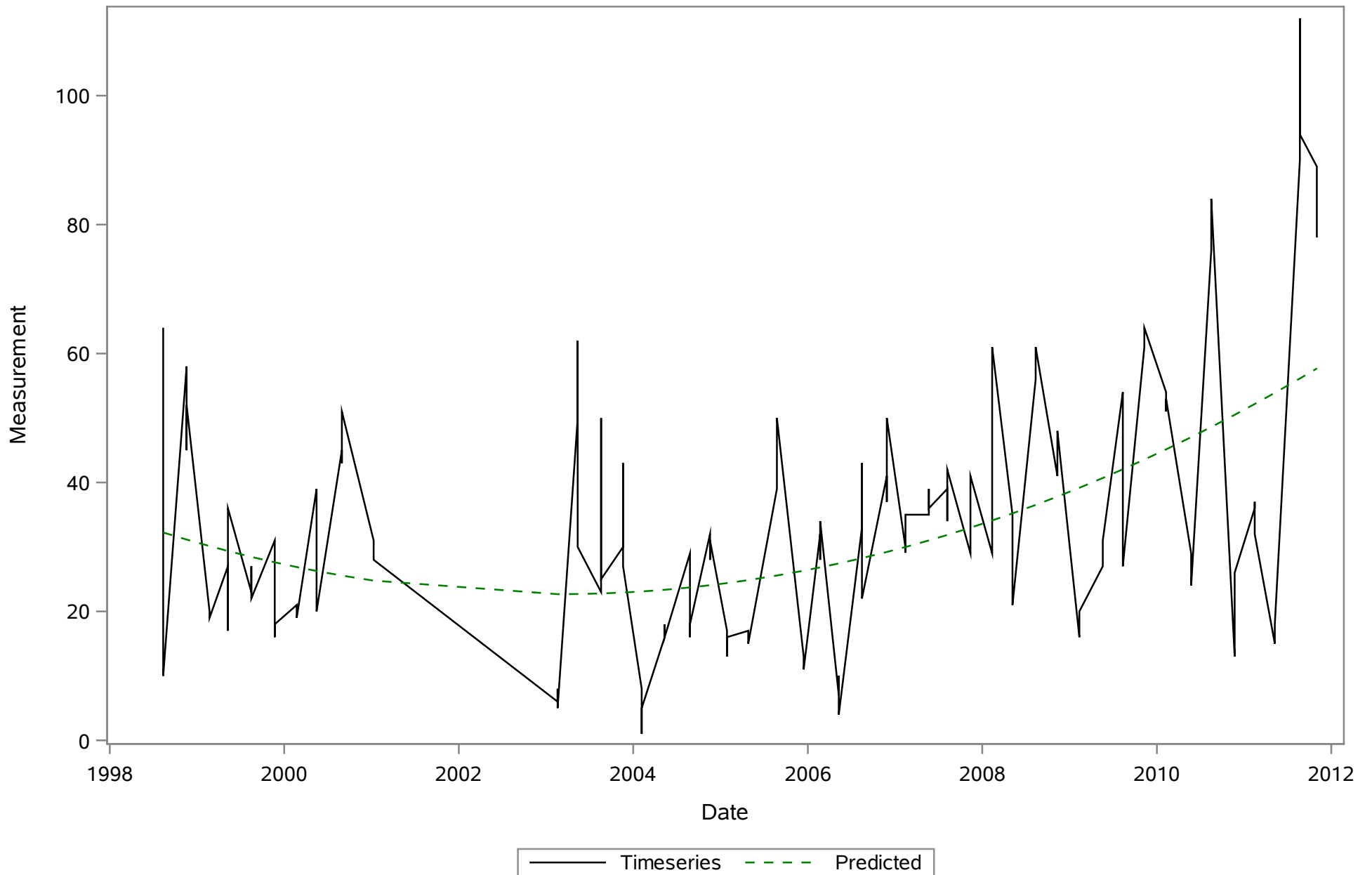
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
COLOR_PtCo



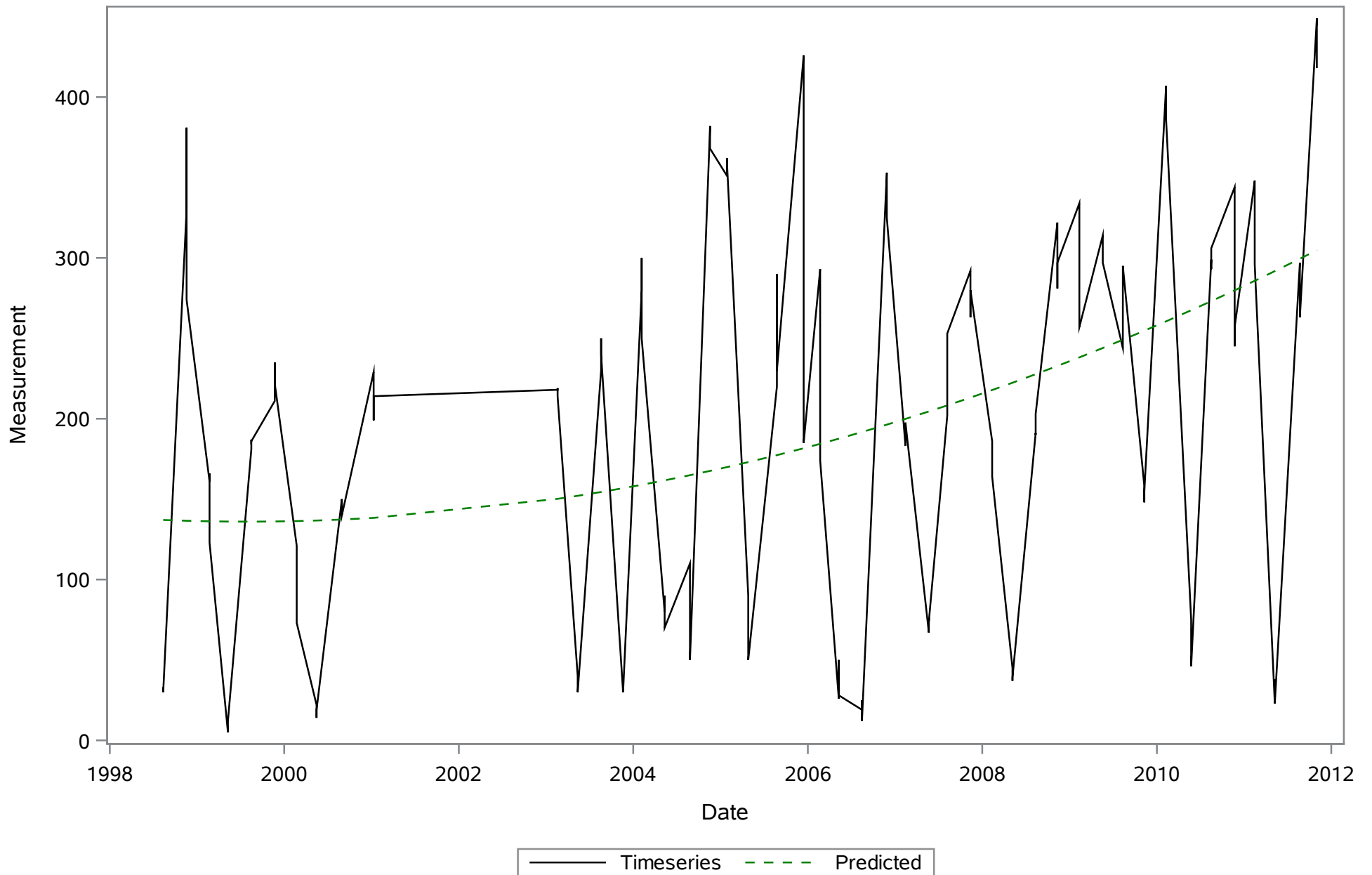
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
DO_mgL



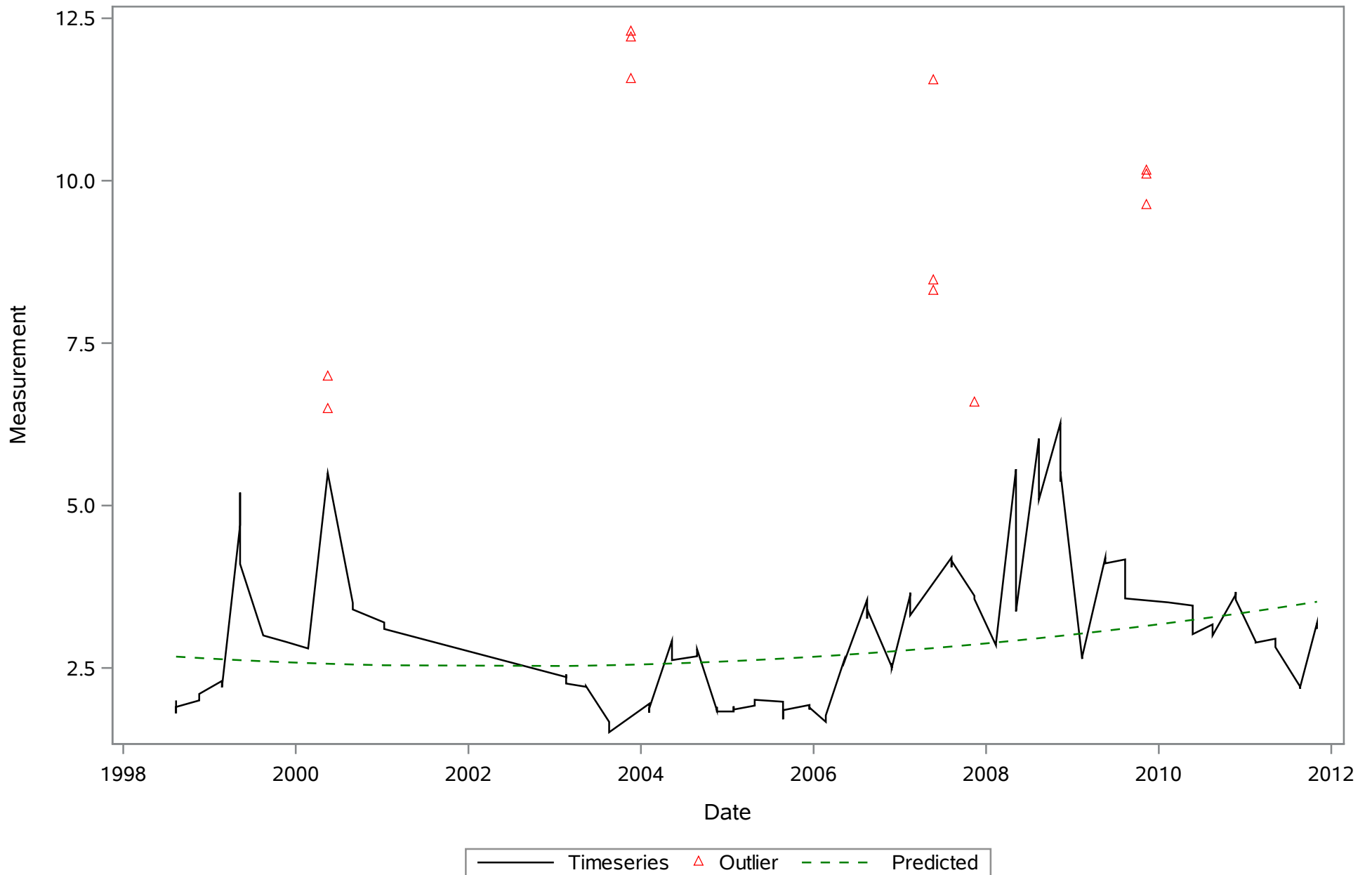
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NH4_ugl



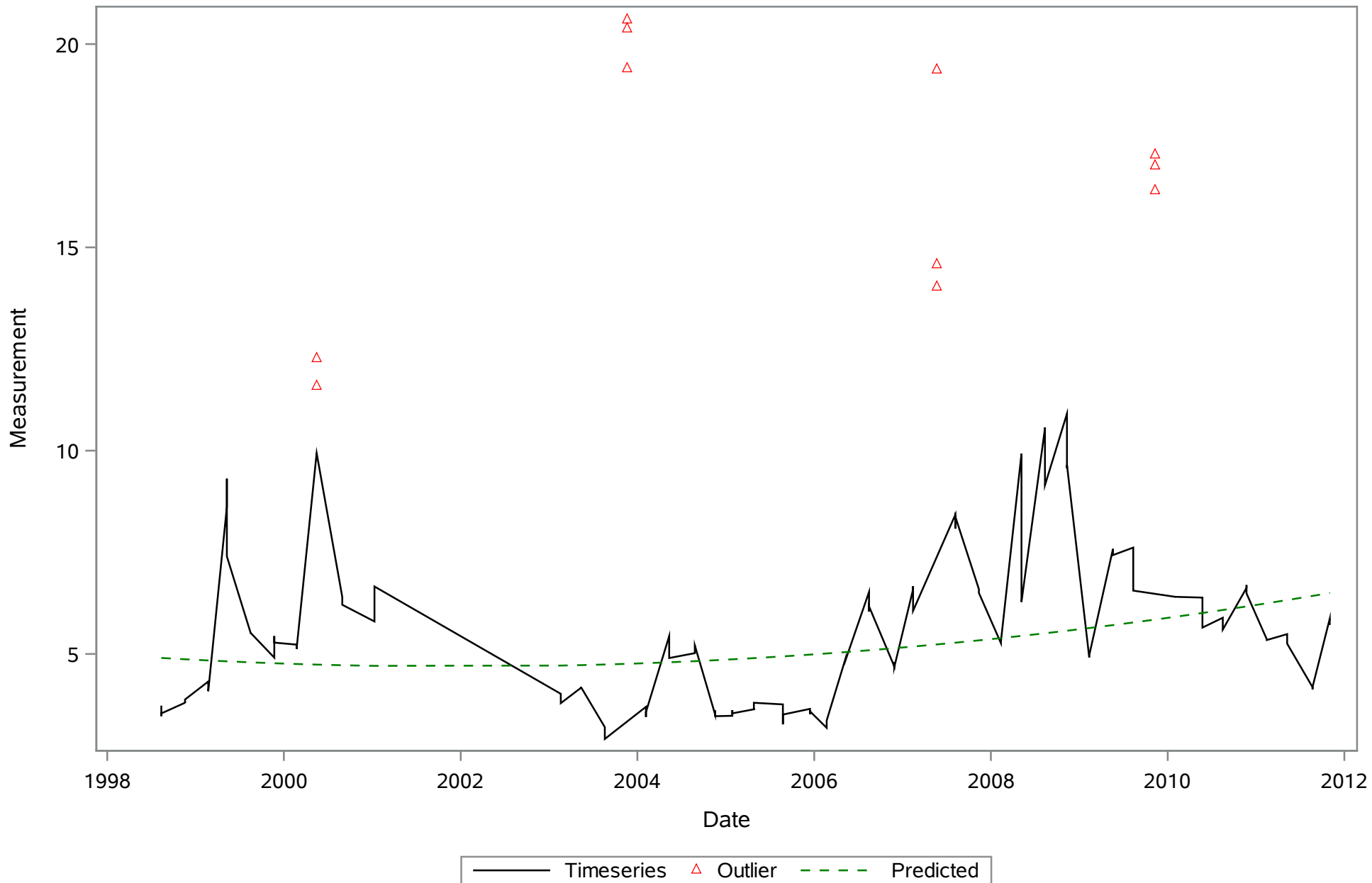
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NO3_ugL



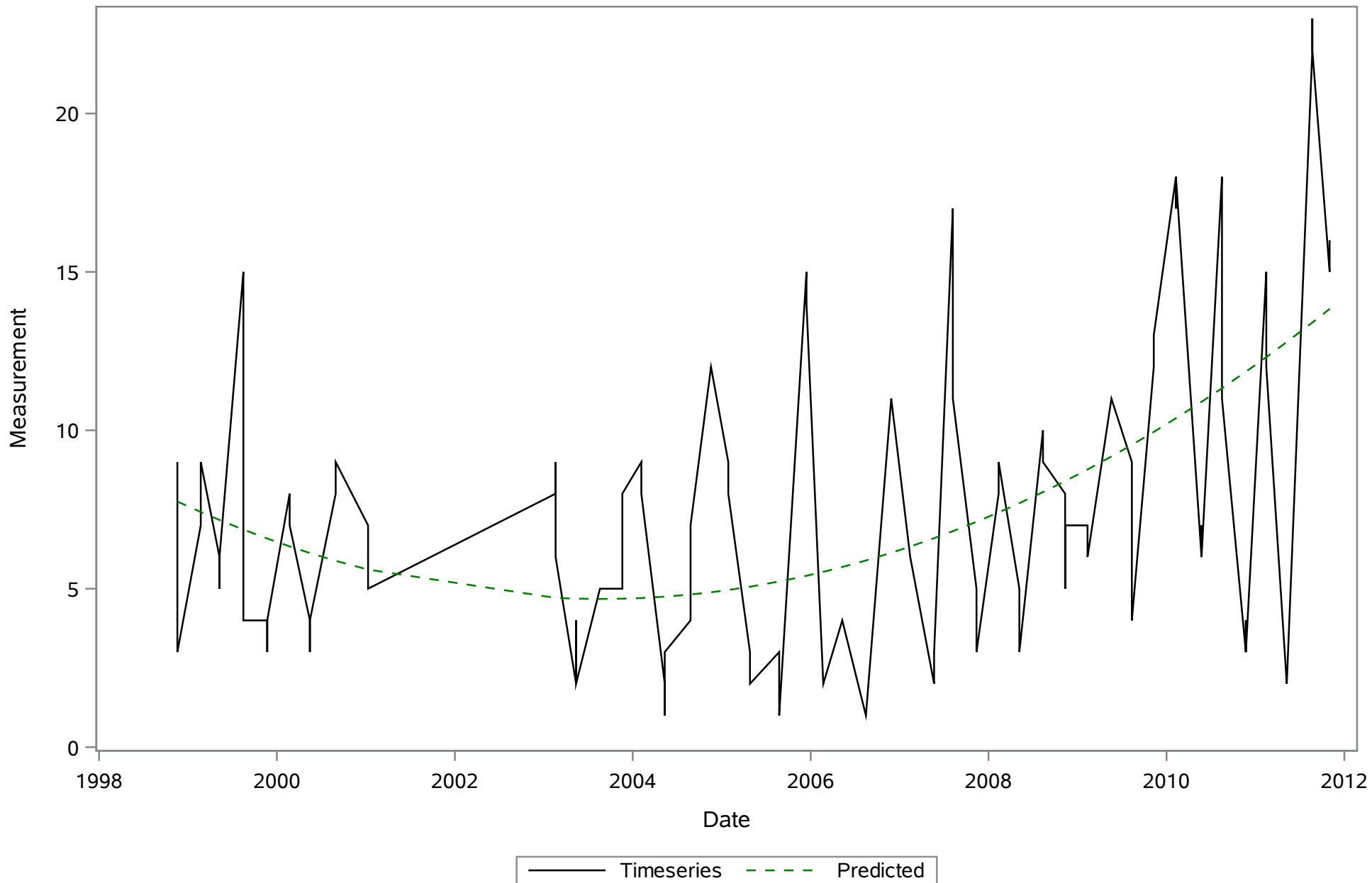
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SAL_Perc



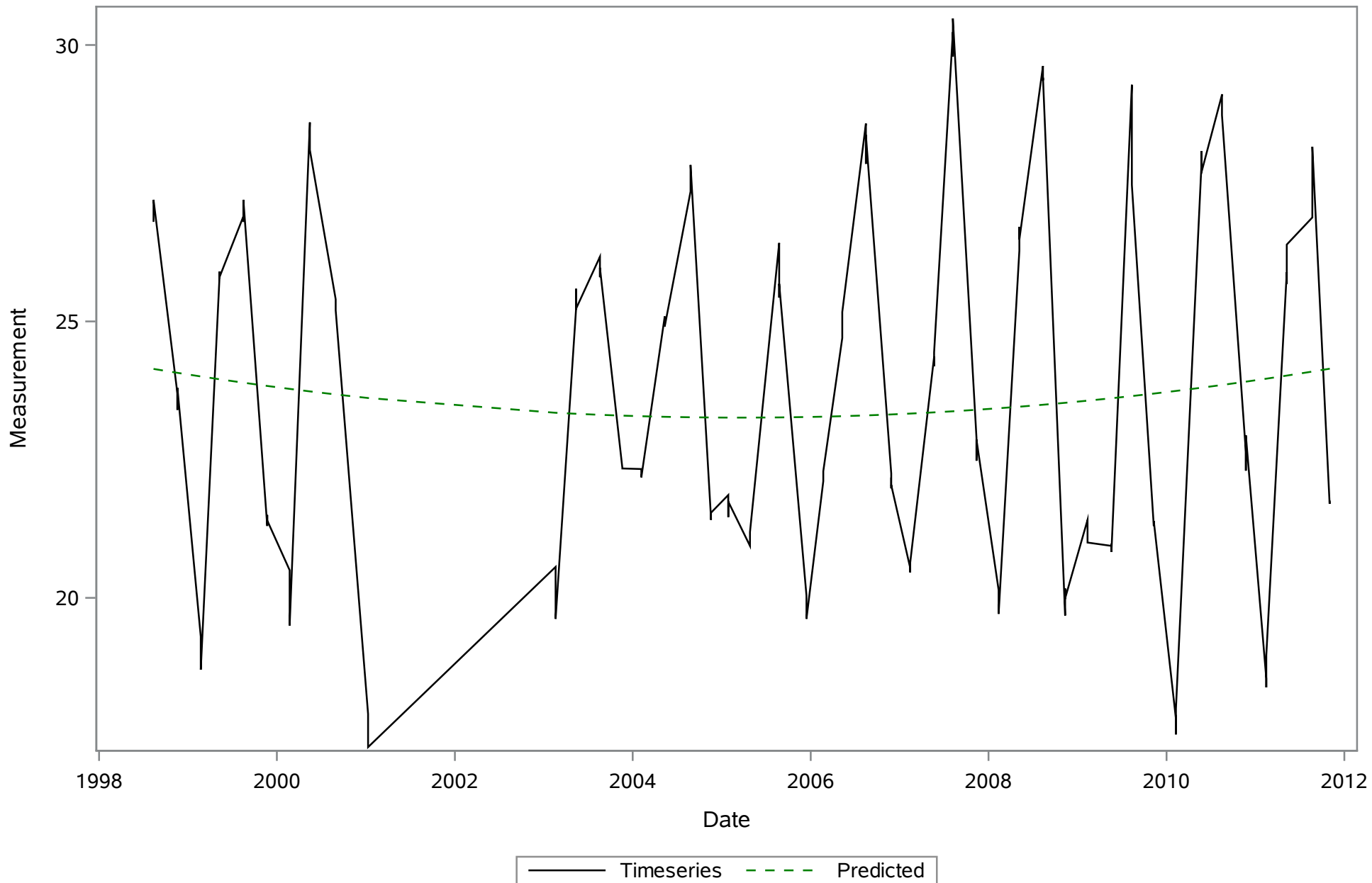
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SPCOND_mS_cm



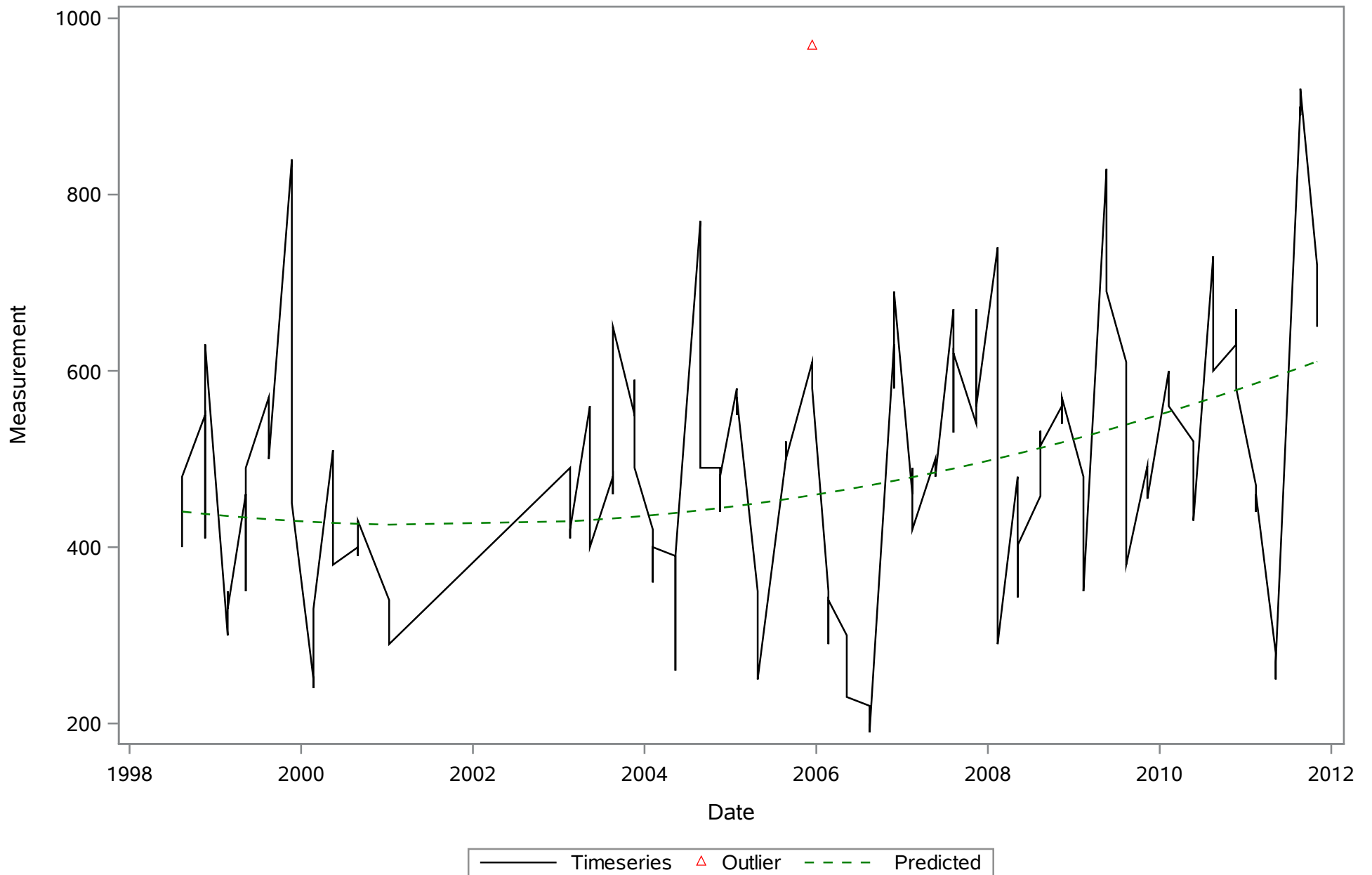
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SRP_ugL



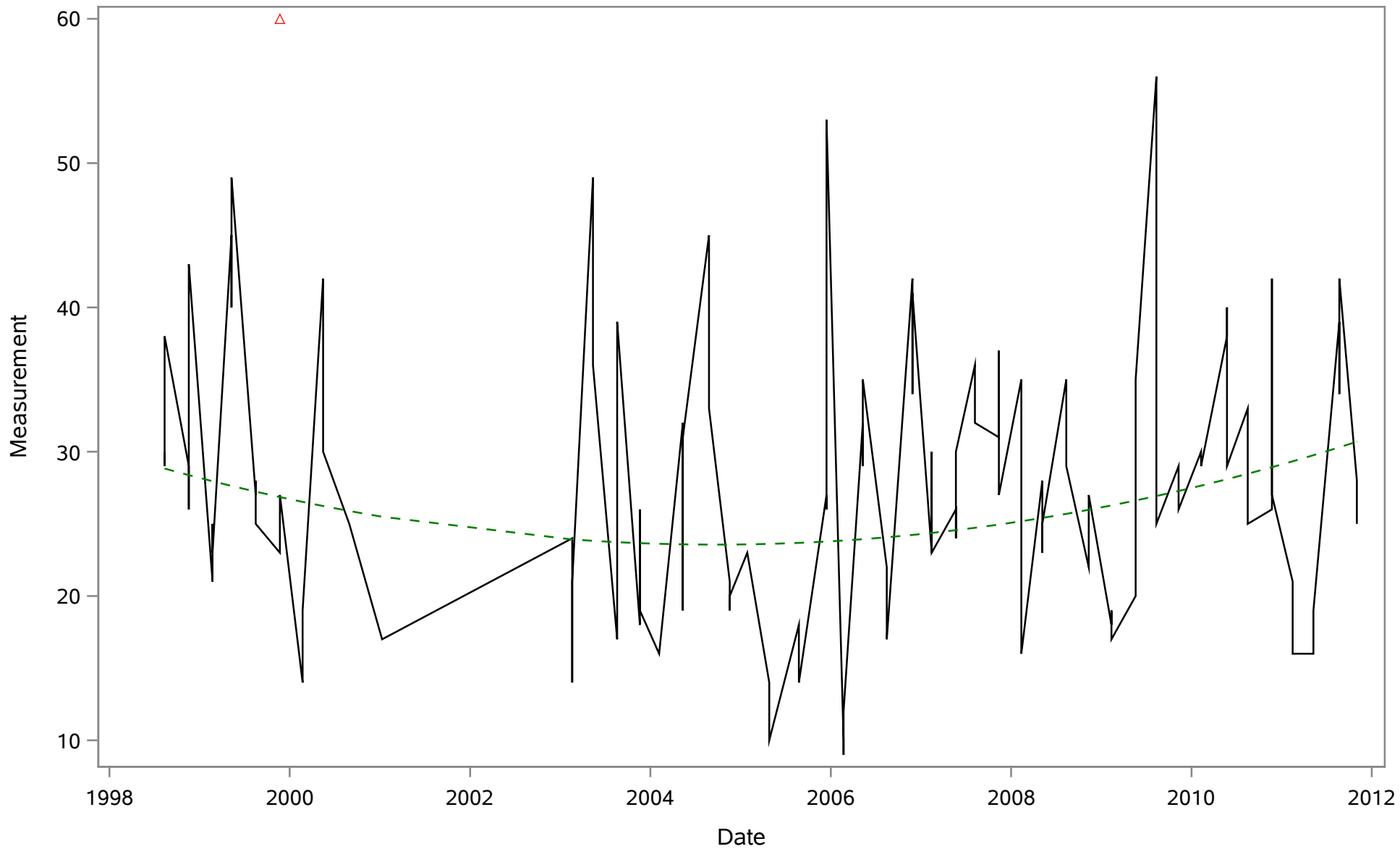
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TEMP_C



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TN_ugl

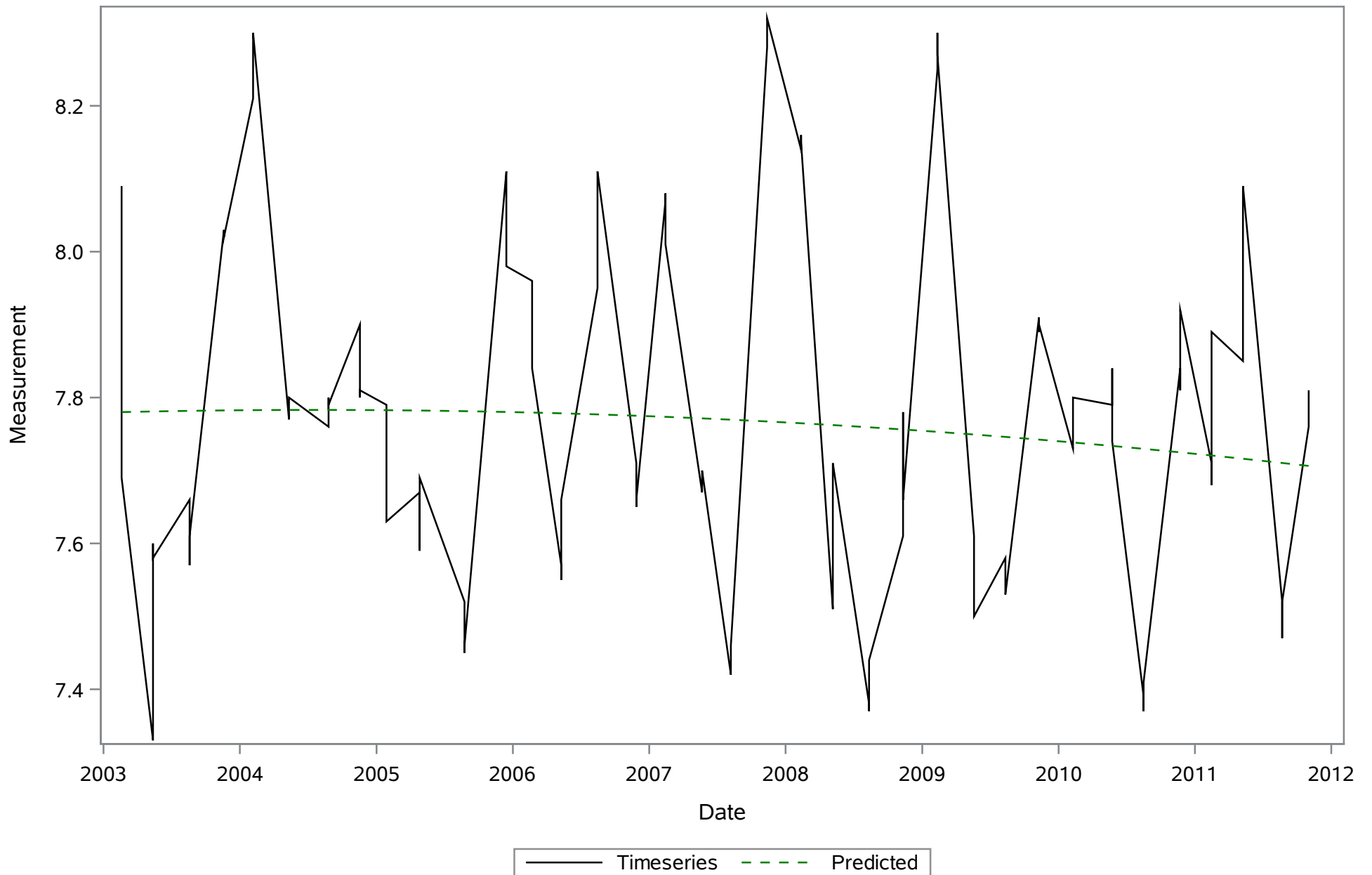


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TP_ugl



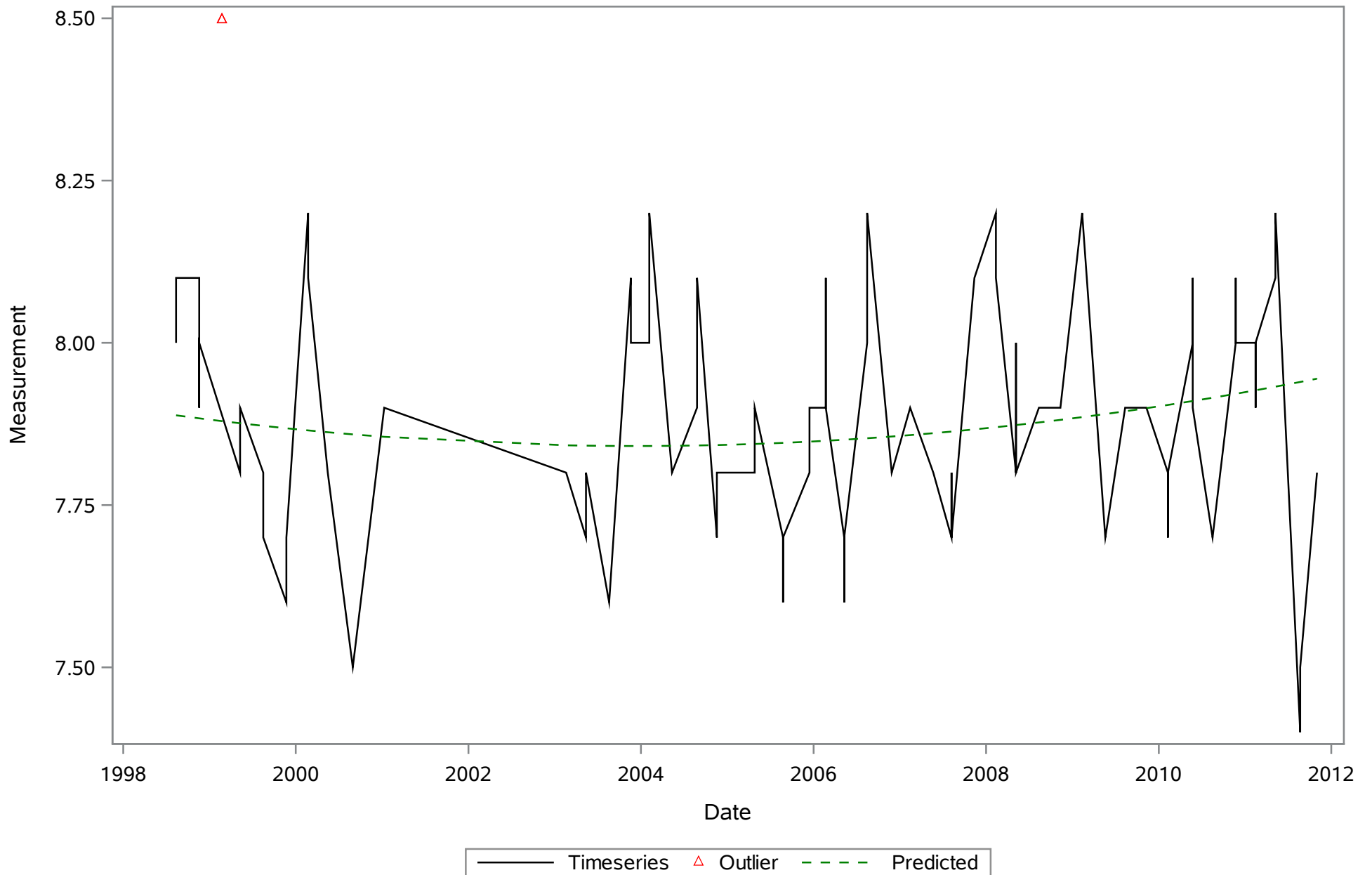
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Field

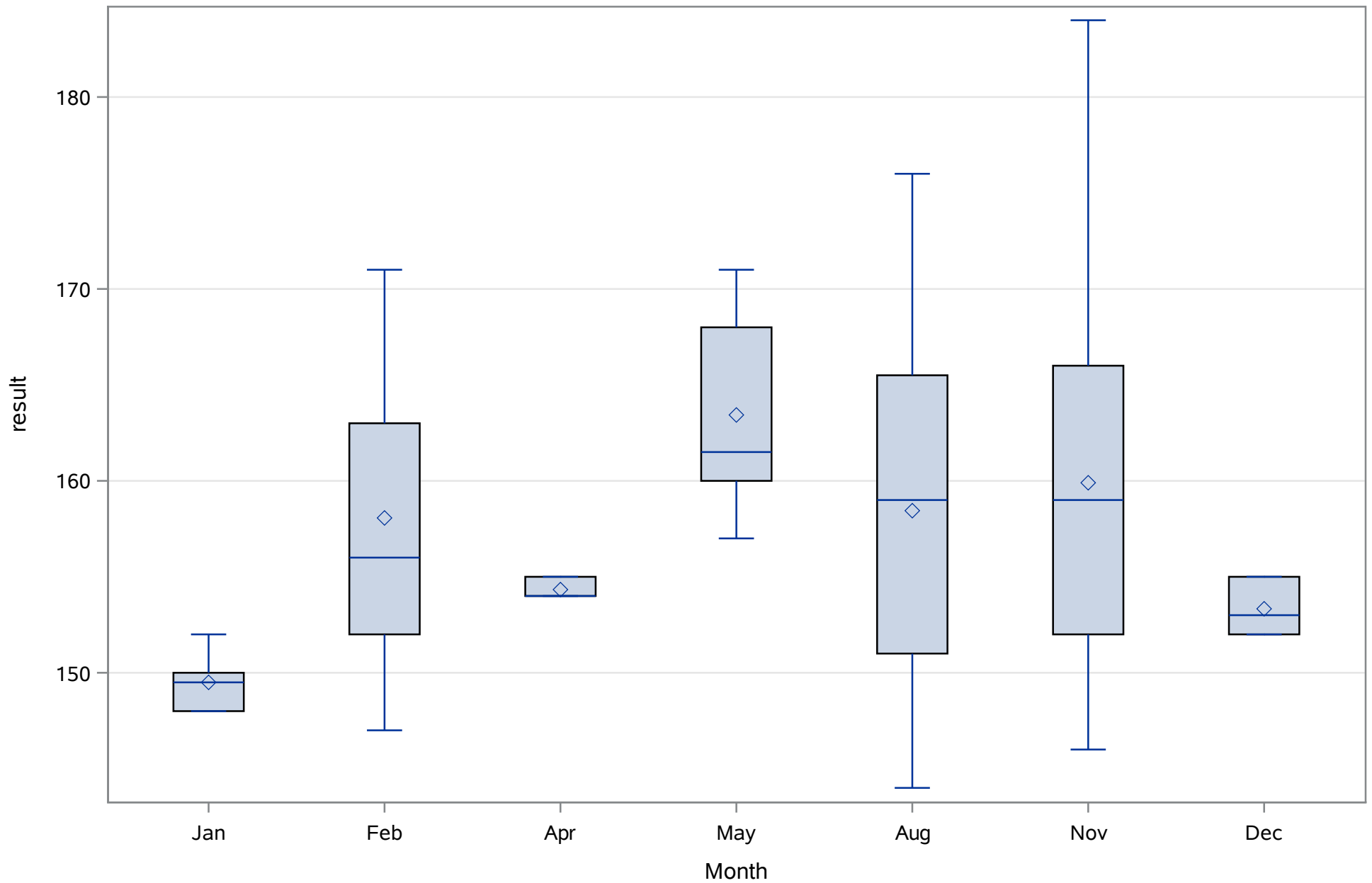


Chassahowitzka River - Fixed Station

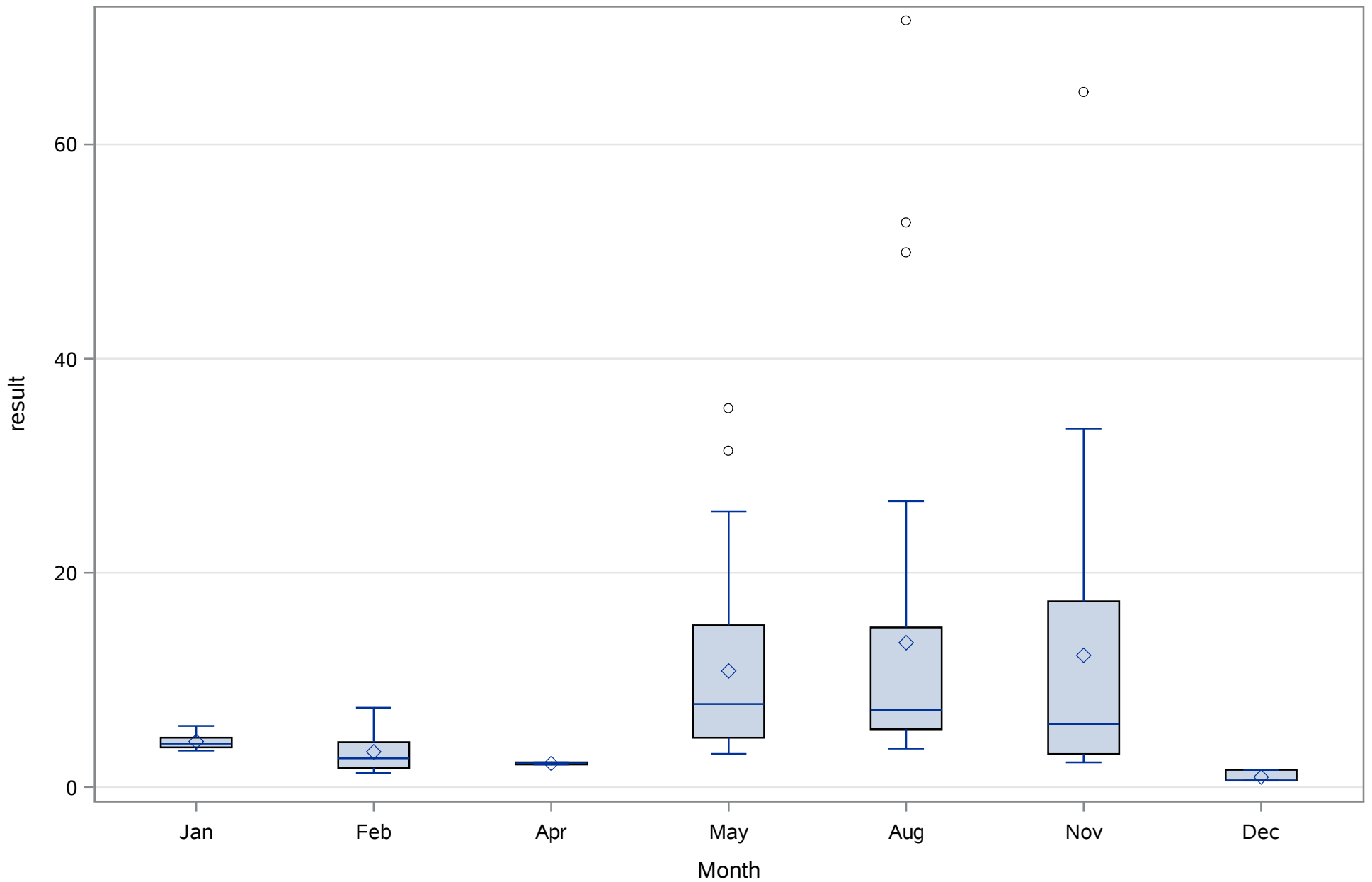
Source: UF 5 Rivers Study
Transect 9
pH_Lab



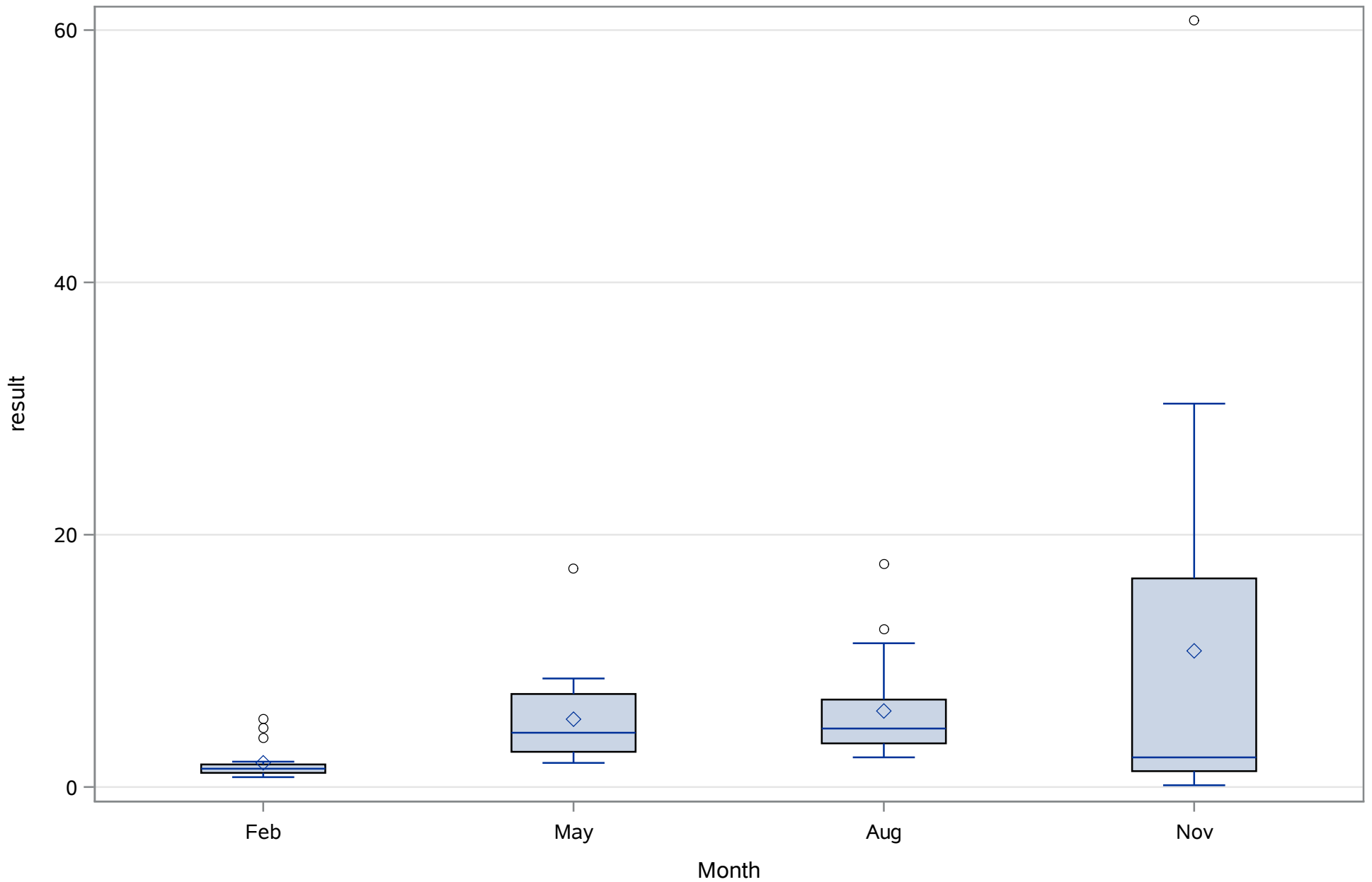
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
ALK_tot_mgL



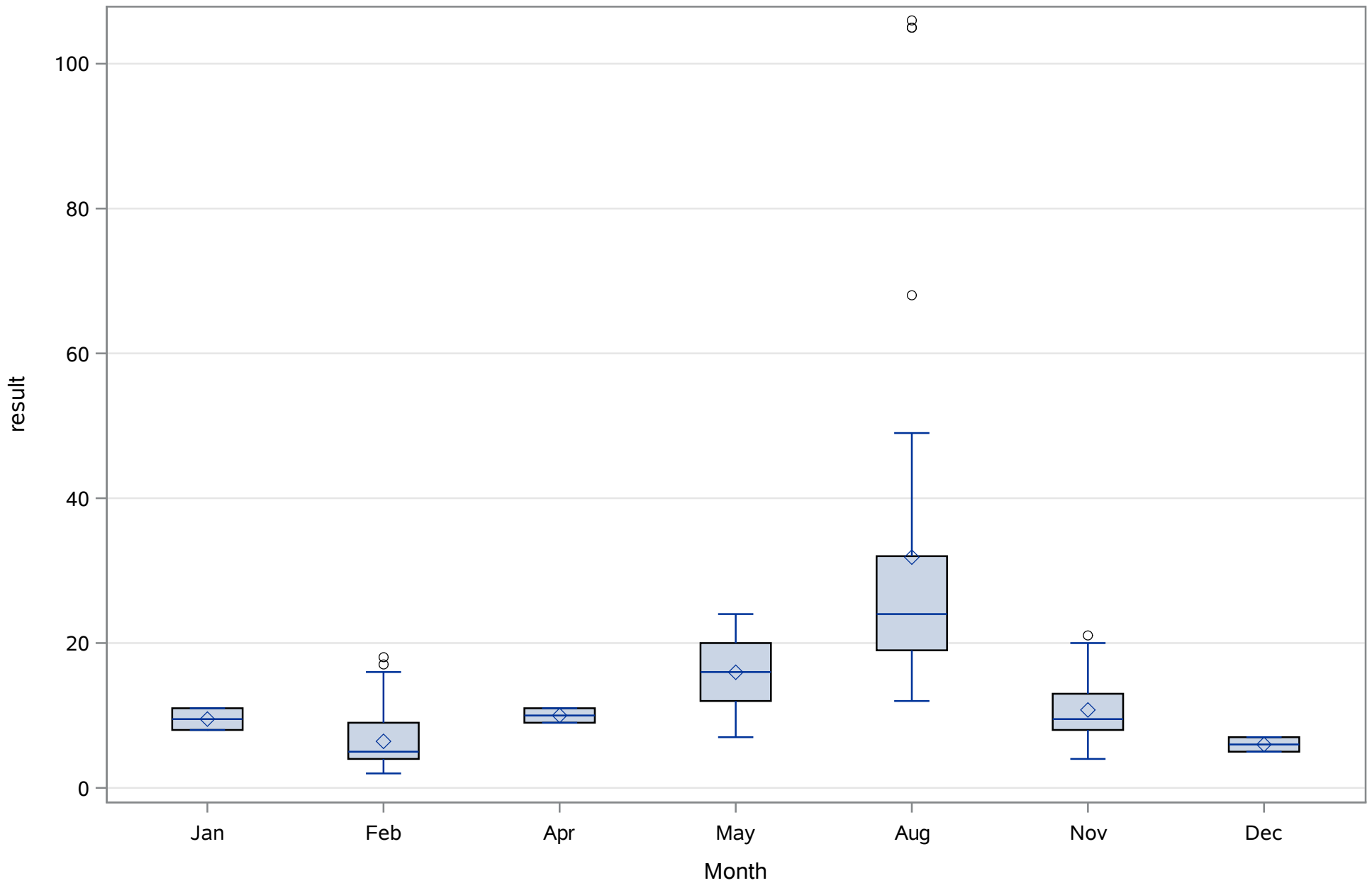
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_Uncor_ugL



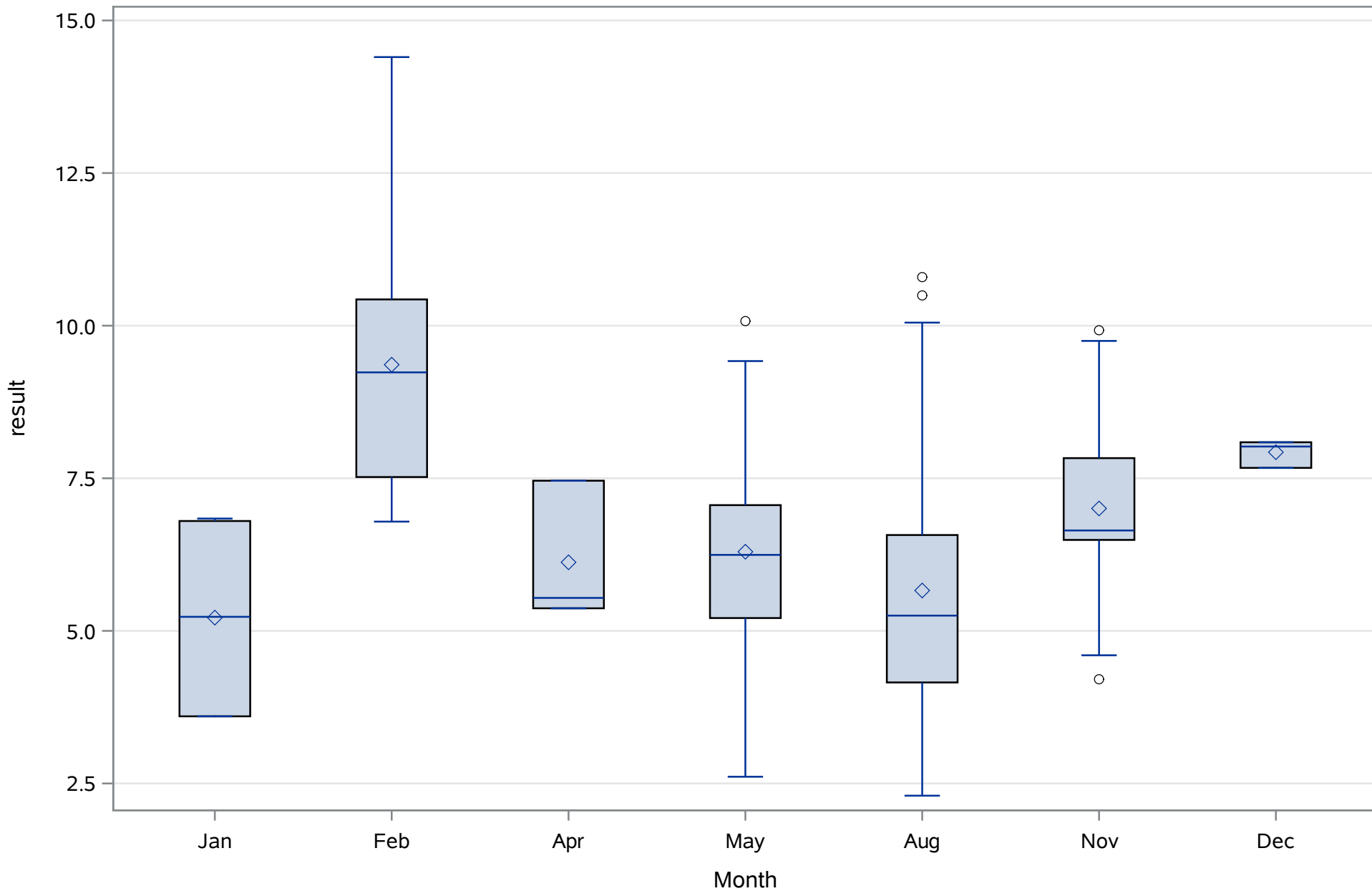
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
CHLA_cor_ugl



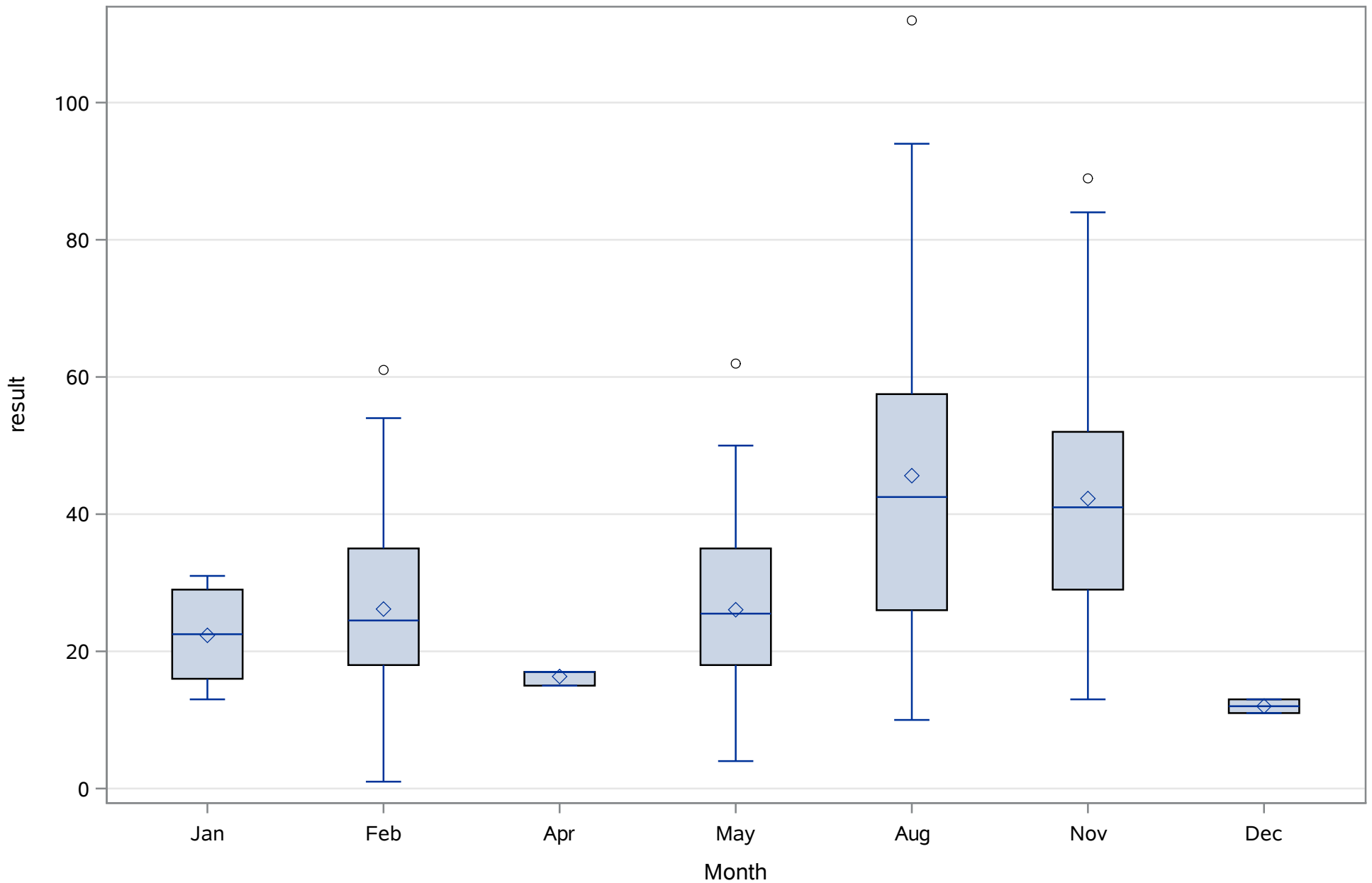
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
COLOR_PtCo



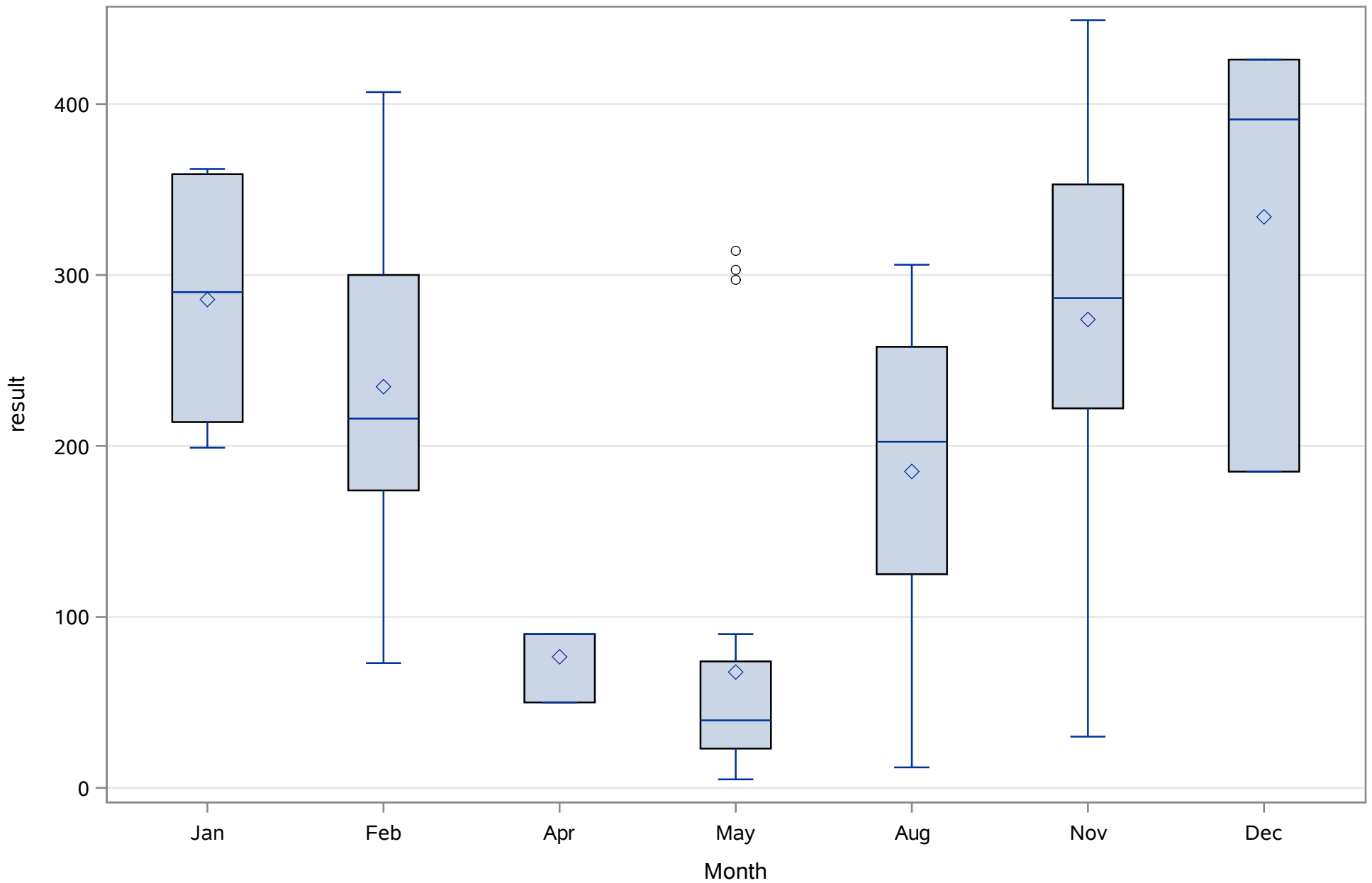
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
DO_mgL



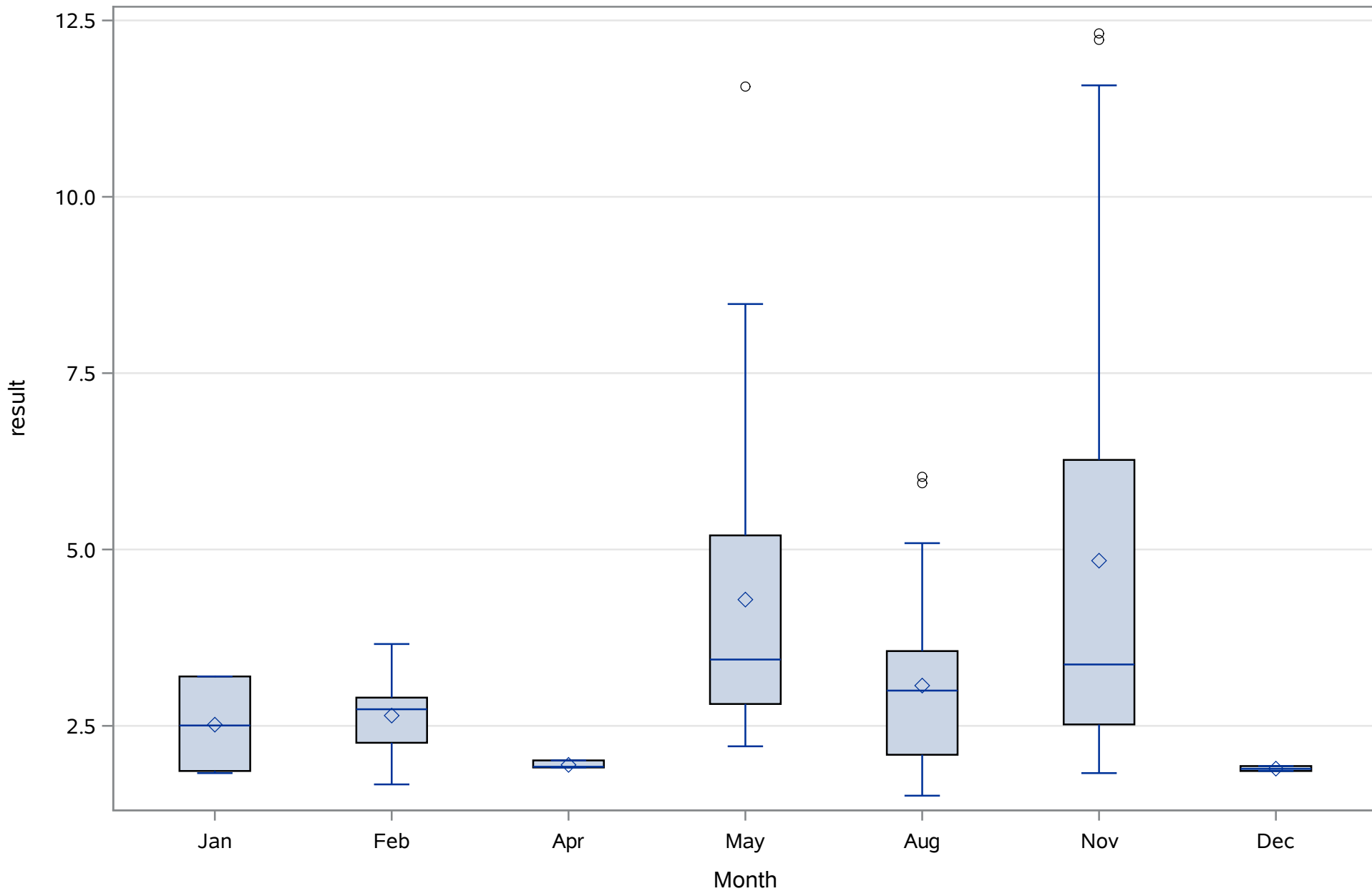
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NH4_ugl



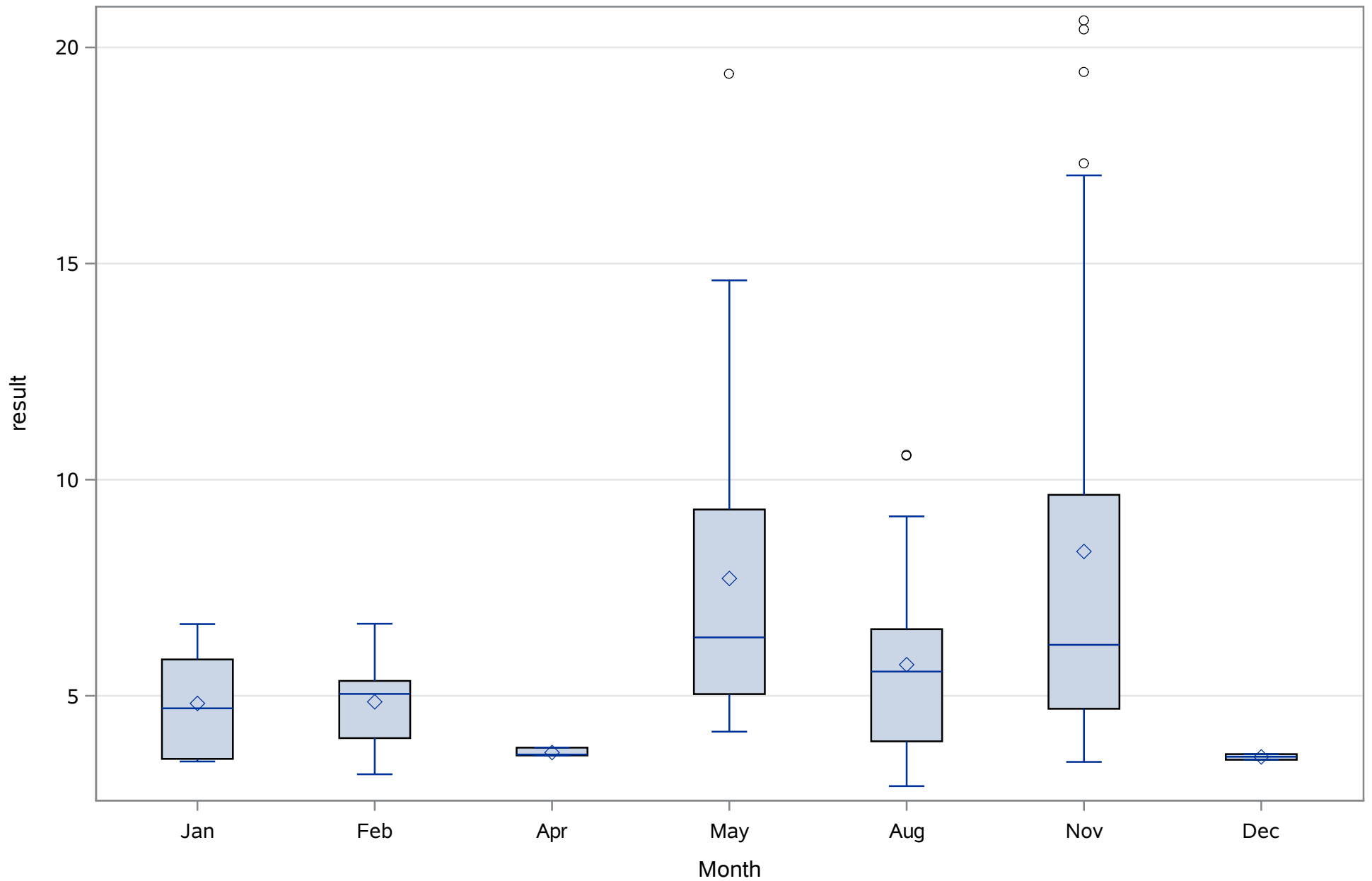
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
NO3_ugL



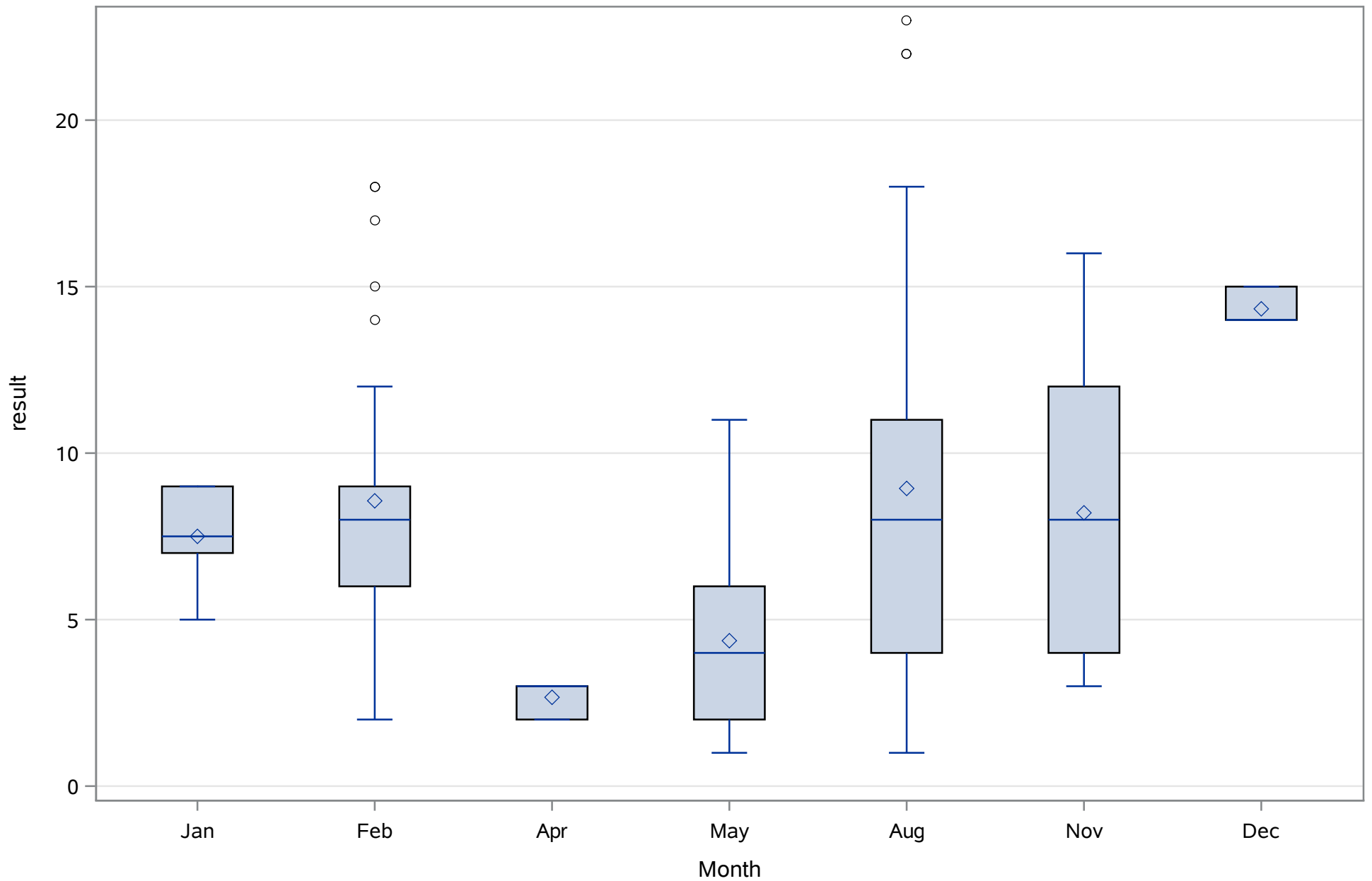
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SAL_Perc



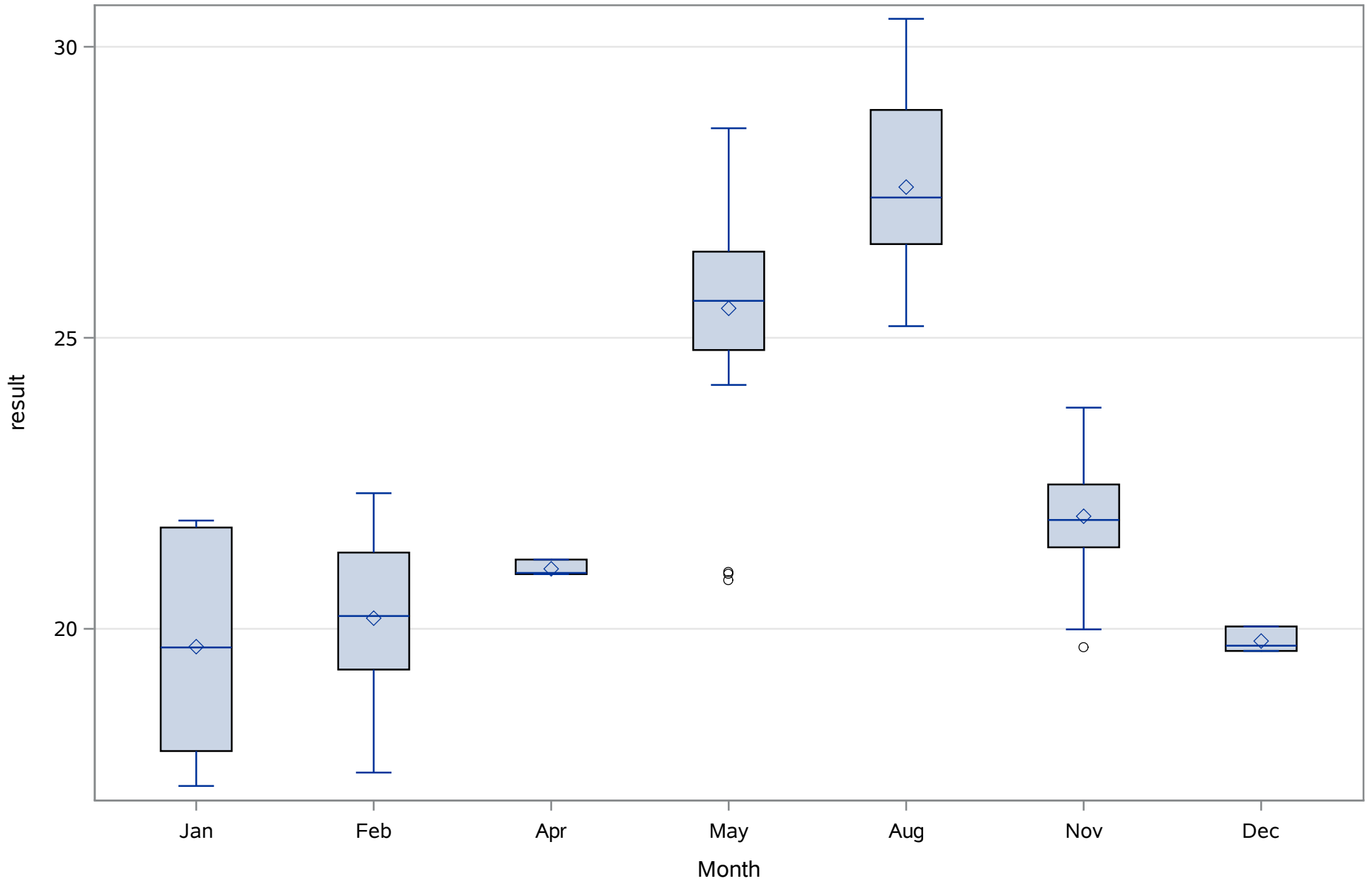
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SPCOND_mS_cm



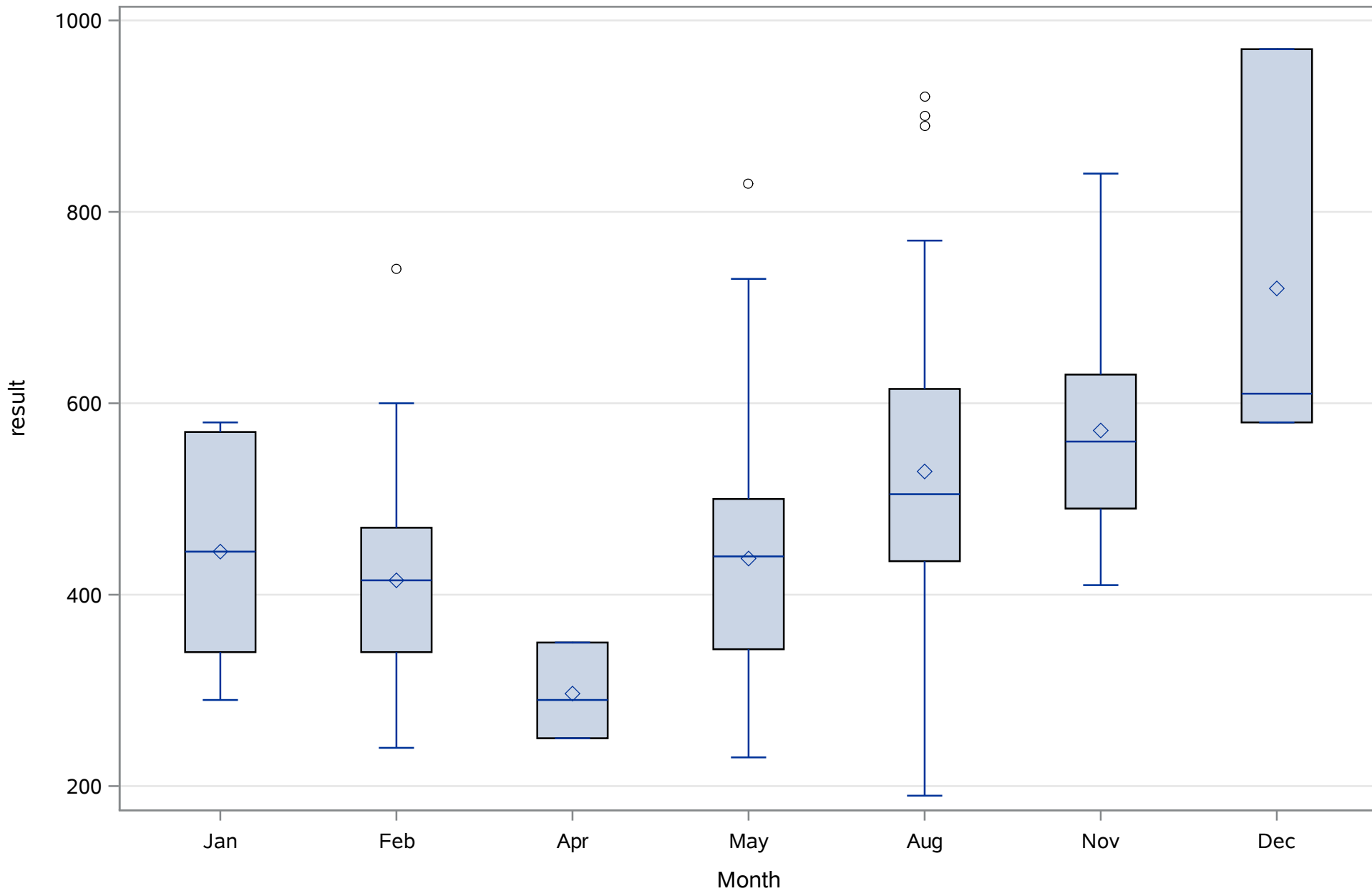
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
SRP_ugL



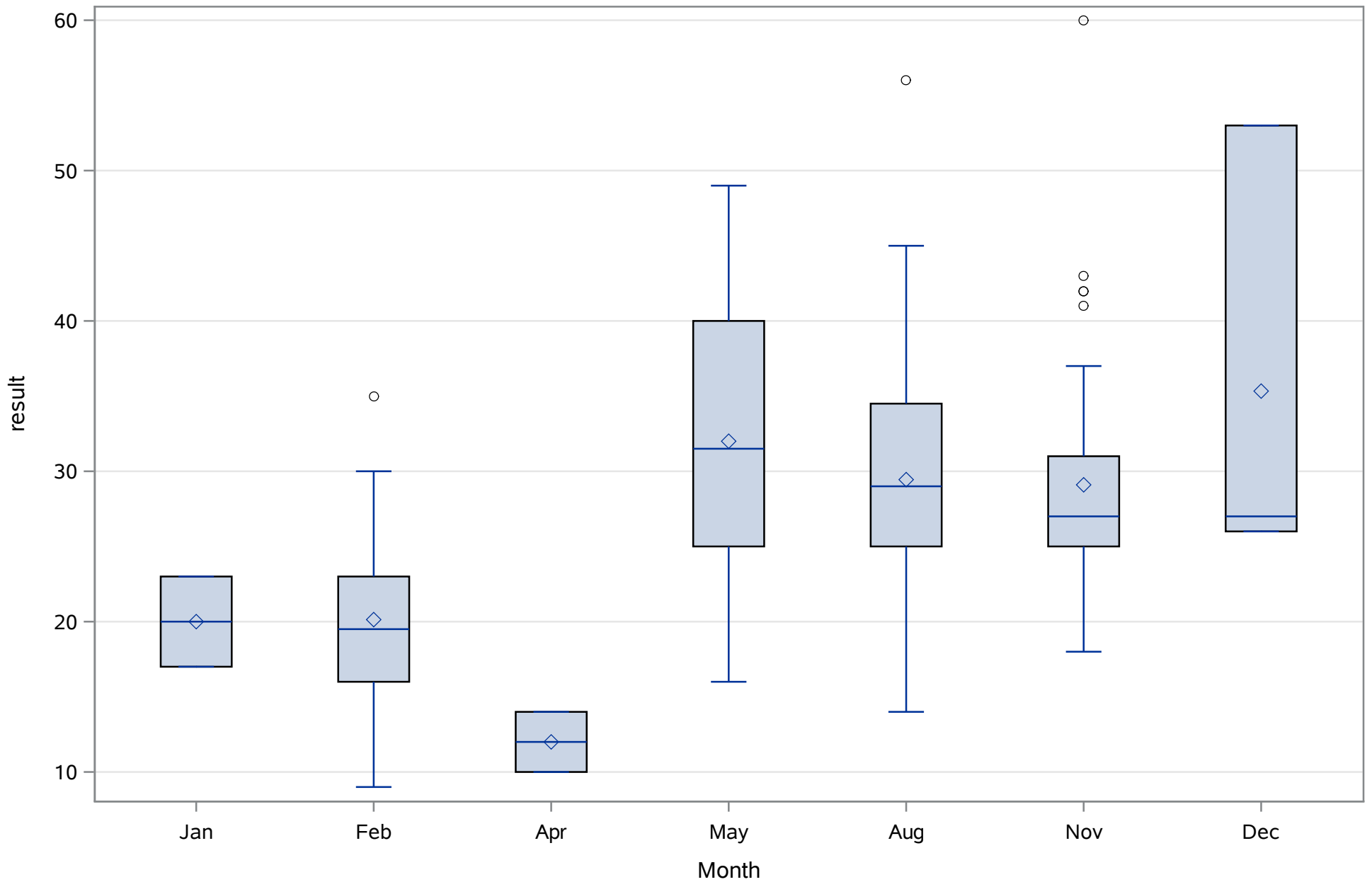
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TEMP_C



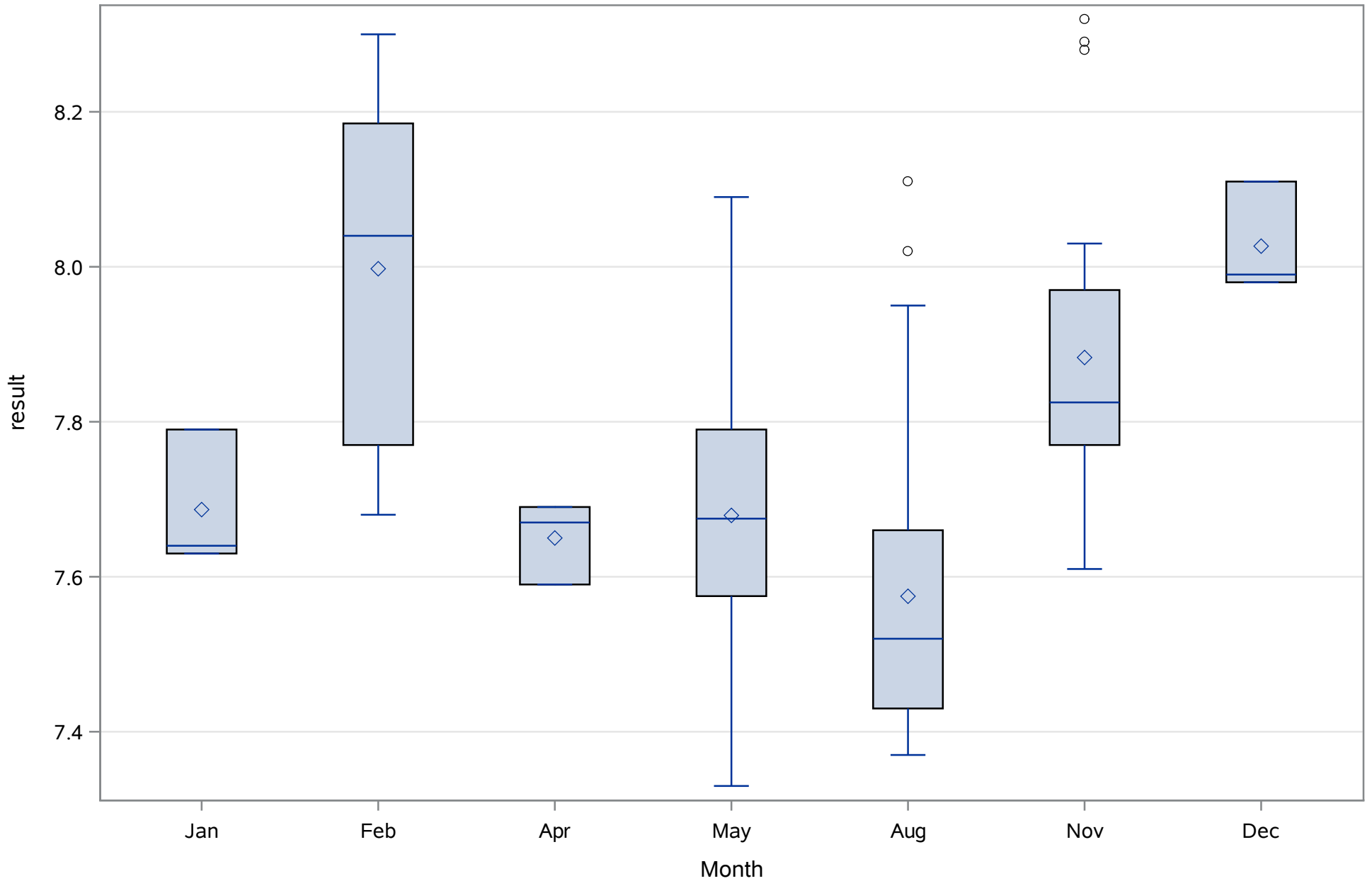
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TN_ugl



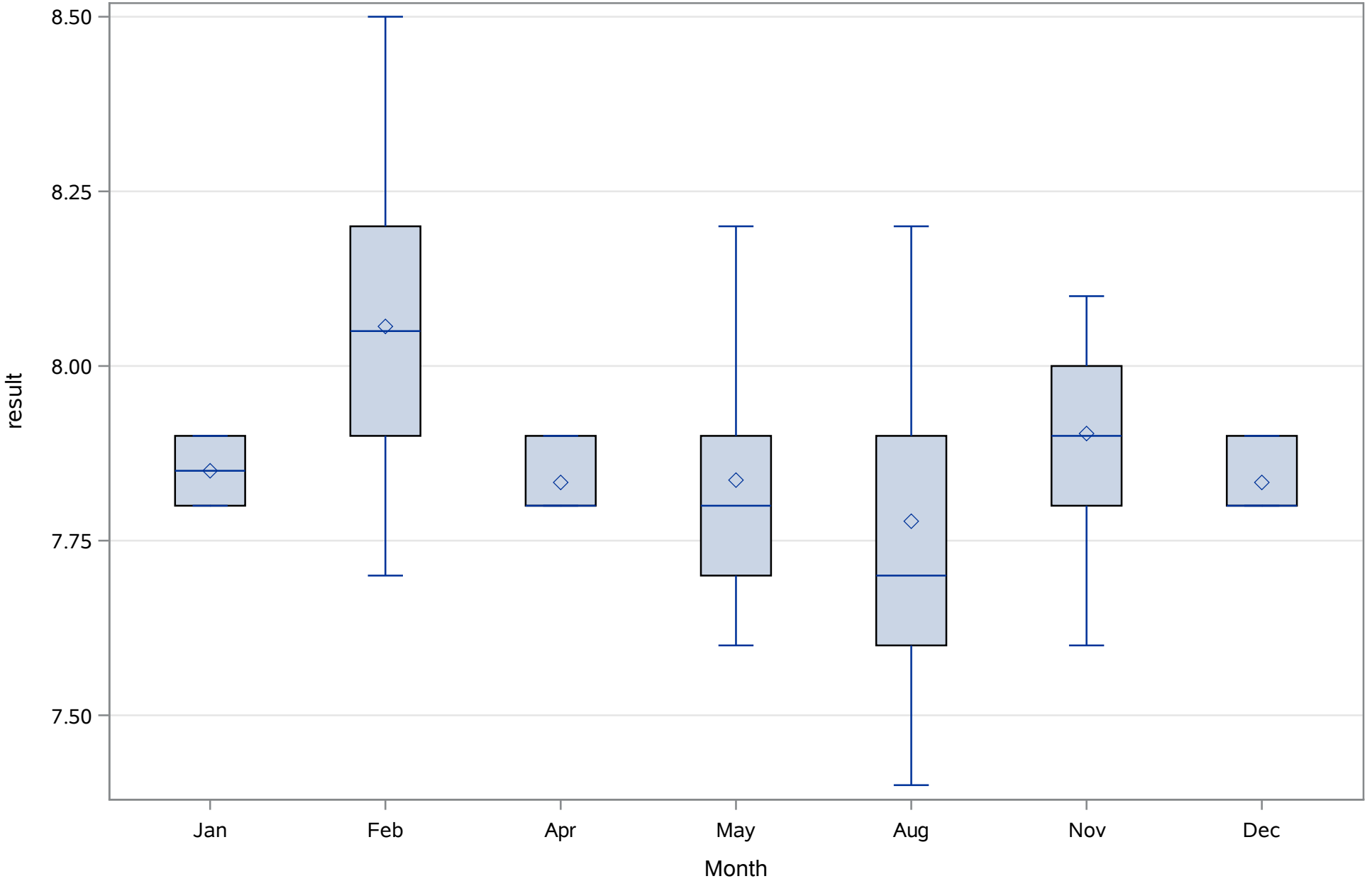
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 9
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	132	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	161.115942	Sum Observations	22234
Std Deviation	9.88700575	Variance	97.7528827
Skewness	0.38855037	Kurtosis	-0.4903442
Uncorrected SS	3595644	Corrected SS	13392.1449
Coeff Variation	6.13657818	Std Error Mean	0.84163782

Basic Statistical Measures			
Location		Variability	
Mean	161.1159	Std Deviation	9.88701
Median	160.5000	Variance	97.75288
Mode	149.0000	Range	43.00000
		Interquartile Range	16.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	191.4314	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	185.0
99%	185.0
95%	182.0
90%	174.0
75% Q3	168.0
50% Median	160.5
25% Q1	152.0
10%	149.0
5%	149.0
1%	142.0
0% Min	142.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
ALK_tot_mgL

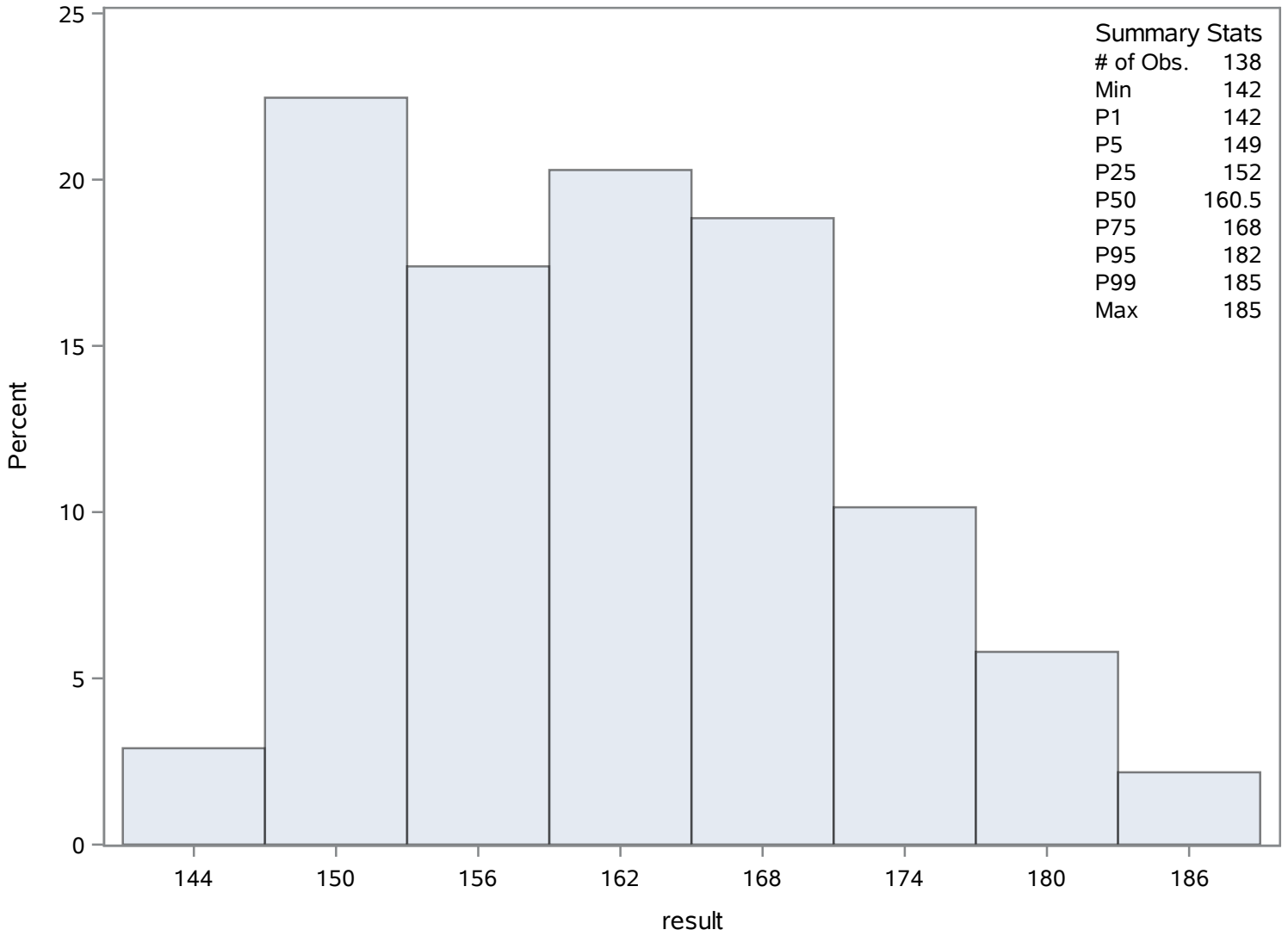
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
142	135	182	99
142	134	182	116
143	133	184	112
146	5	185	113
148	6	185	114

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	9.16313482	Sum Observations	1264.51261
Std Deviation	11.9762935	Variance	143.431606
Skewness	4.44641842	Kurtosis	27.8093983
Uncorrected SS	31237.0295	Corrected SS	19650.13
Coeff Variation	130.700833	Std Error Mean	1.01948981

Basic Statistical Measures			
Location		Variability	
Mean	9.163135	Std Deviation	11.97629
Median	5.250000	Variance	143.43161
Mode	1.200000	Range	101.07000
		Interquartile Range	5.69770

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.987961	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	102.0700
99%	57.2400
95%	29.1000
90%	22.6000
75% Q3	9.1000
50% Median	5.2500
25% Q1	3.4023
10%	2.2000
5%	1.7000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

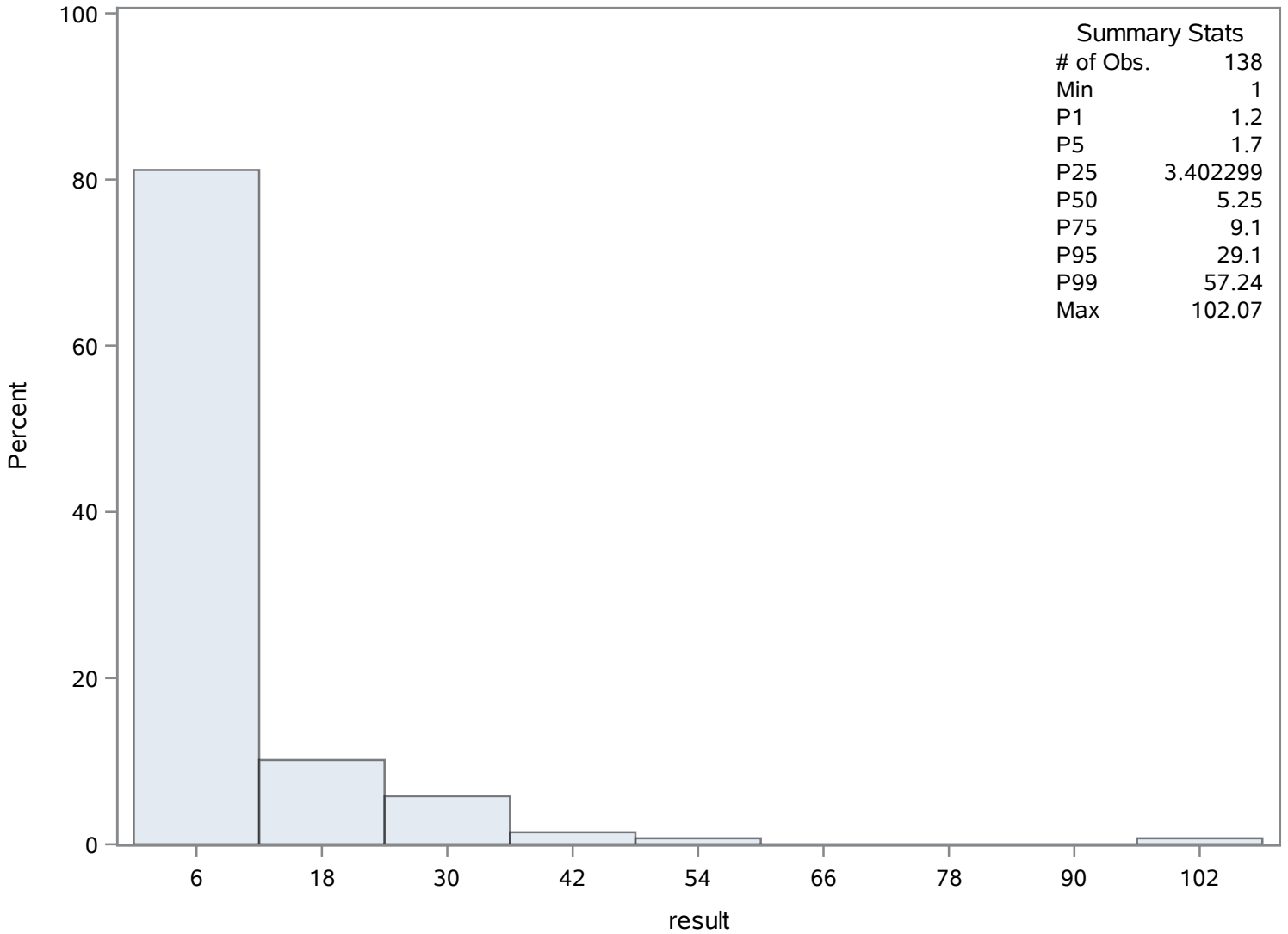
Quantiles (Definition 5)	
Level	Quantile
1%	1.2000
0% Min	1.0000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	157	31.60	140
1.20	204	39.80	141
1.20	203	42.00	139
1.20	202	57.24	263
1.38	255	102.07	262

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	6.8626836	Sum Observations	494.113219
Std Deviation	12.9461941	Variance	167.603942
Skewness	5.30551137	Kurtosis	32.3422671
Uncorrected SS	15290.8225	Corrected SS	11899.8799
Coeff Variation	188.646233	Std Error Mean	1.52572361

Basic Statistical Measures			
Location		Variability	
Mean	6.862684	Std Deviation	12.94619
Median	3.744308	Variance	167.60394
Mode	1.005516	Range	94.08000
		Interquartile Range	3.99242

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.497986	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	94.97000
99%	94.97000
95%	25.91997
90%	10.05516
75% Q3	5.97500
50% Median	3.74431
25% Q1	1.98259
10%	1.22896
5%	1.00552

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

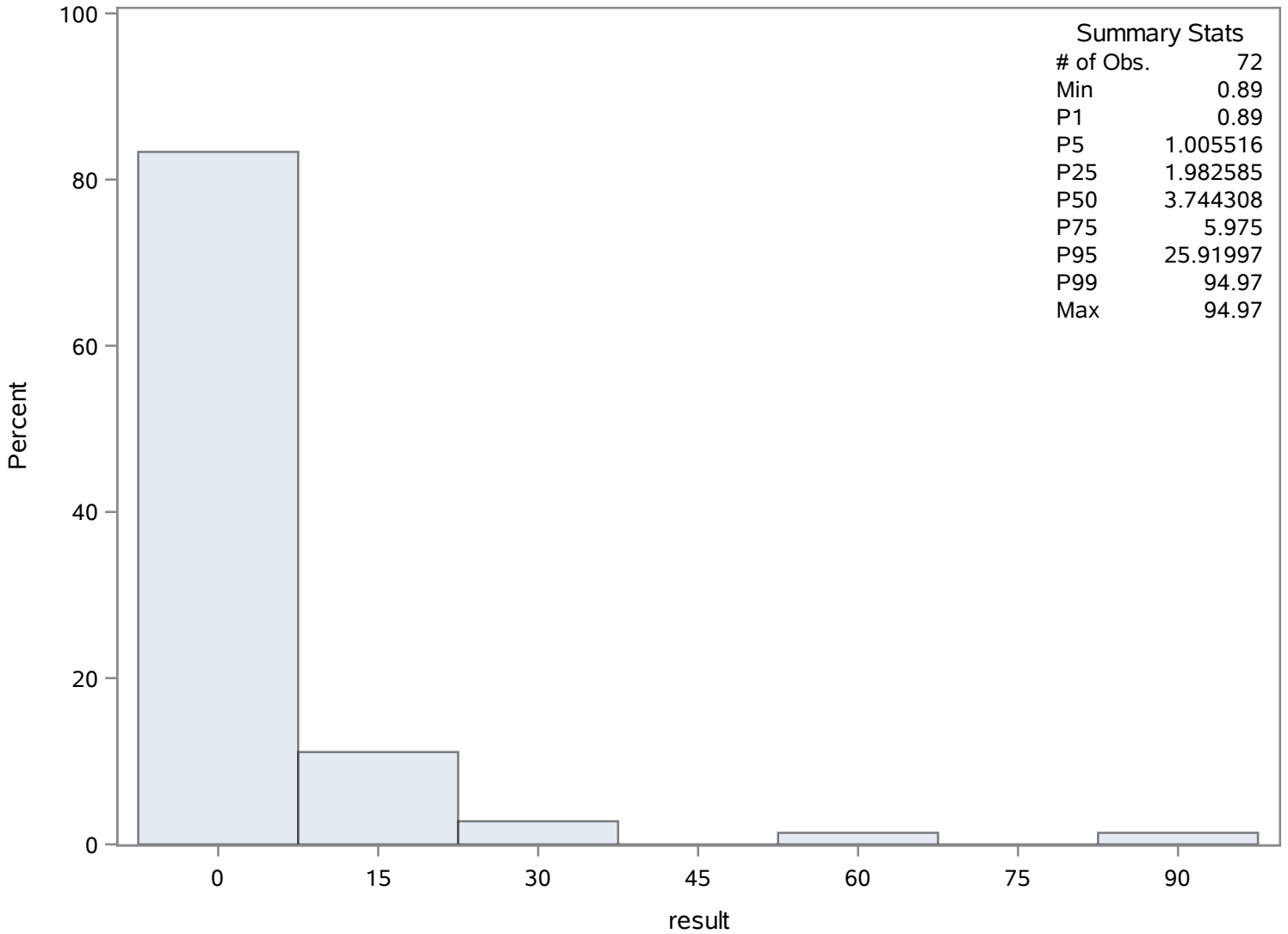
Quantiles (Definition 5)	
Level	Quantile
1%	0.89000
0% Min	0.89000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.890000	327	19.1048	298
0.893792	302	25.9200	299
1.005516	303	28.7131	300
1.005516	279	52.5100	335
1.005516	278	94.9700	334

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	19.1956522	Sum Observations	2649
Std Deviation	18.514882	Variance	342.800857
Skewness	3.24163211	Kurtosis	12.6711532
Uncorrected SS	97813	Corrected SS	46963.7174
Coeff Variation	96.4535191	Std Error Mean	1.57609143

Basic Statistical Measures			
Location		Variability	
Mean	19.19565	Std Deviation	18.51488
Median	15.50000	Variance	342.80086
Mode	5.00000	Range	111.00000
		Interquartile Range	14.00000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	12.17928	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	113.0
99%	112.0
95%	44.0
90%	33.0
75% Q3	23.0
50% Median	15.5
25% Q1	9.0
10%	5.0
5%	5.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

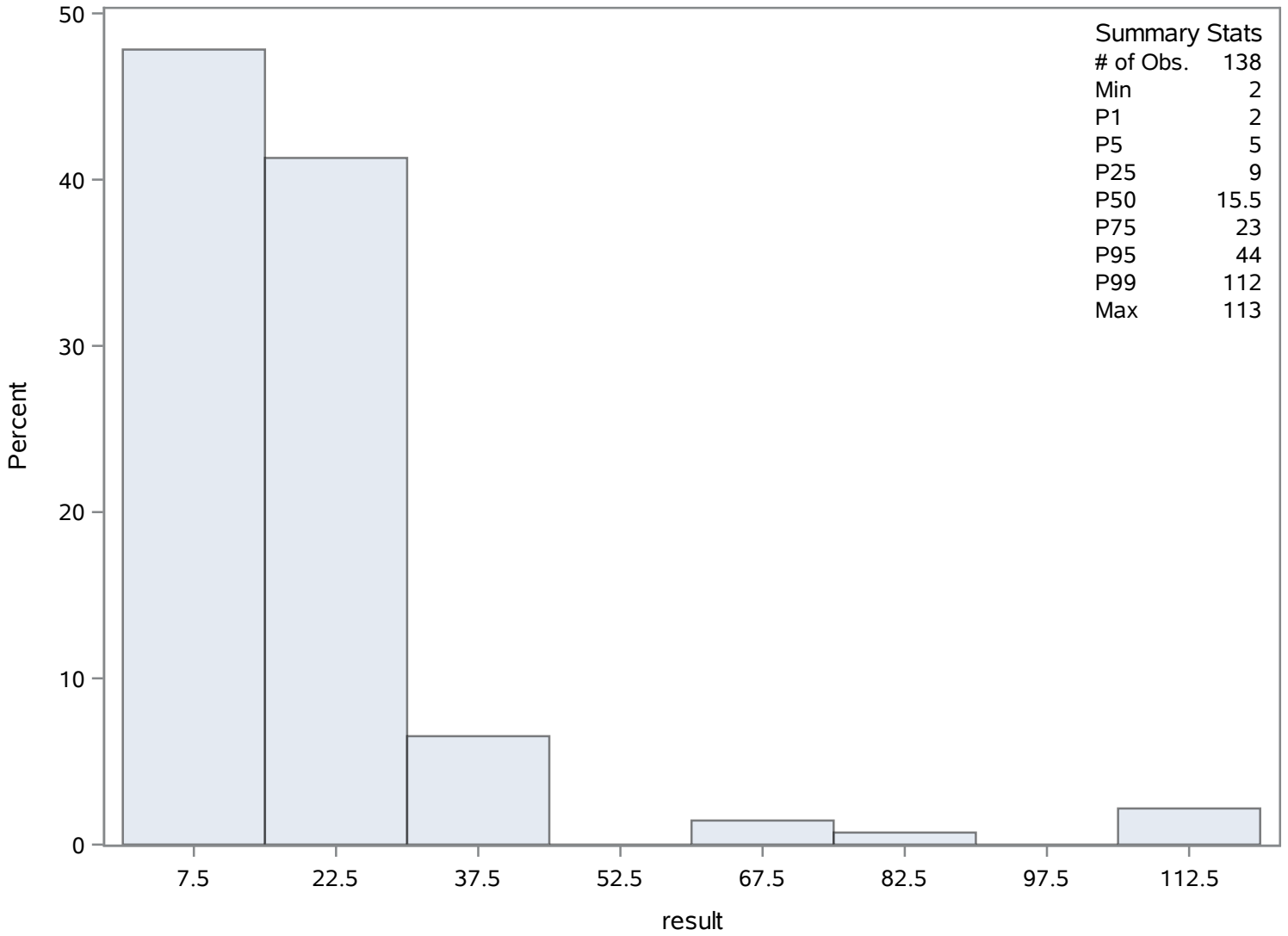
Quantiles (Definition 5)	
Level	Quantile
1%	2.0
0% Min	2.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	369	73	434
2	368	78	435
2	367	107	481
3	453	112	483
3	452	113	482

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.57985507	Sum Observations	908.02
Std Deviation	1.85366002	Variance	3.43605545
Skewness	0.2815566	Kurtosis	0.16538787
Uncorrected SS	6445.3796	Corrected SS	470.739597
Coeff Variation	28.1717454	Std Error Mean	0.15779402

Basic Statistical Measures			
Location		Variability	
Mean	6.579855	Std Deviation	1.85366
Median	6.710000	Variance	3.43606
Mode	3.700000	Range	8.97000
		Interquartile Range	2.52000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	41.69901	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.90
99%	11.60
95%	9.96
90%	8.76
75% Q3	7.67
50% Median	6.71
25% Q1	5.15
10%	4.14
5%	3.50

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
DO_mgL

The UNIVARIATE Procedure
Variable: result

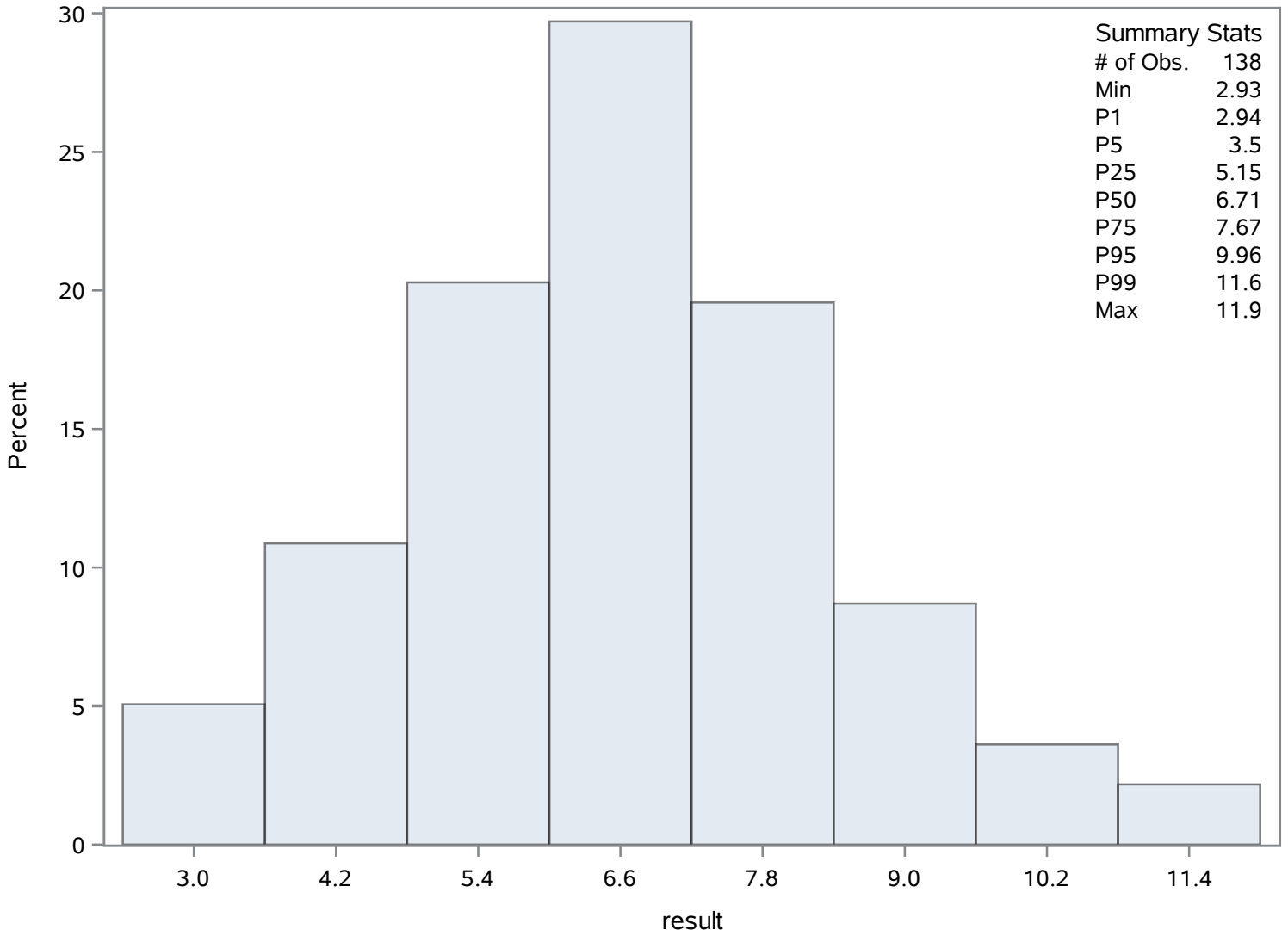
Quantiles (Definition 5)	
Level	Quantile
1%	2.94
0% Min	2.93

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.93	619	10.28	615
2.94	621	10.36	614
2.95	620	11.60	493
3.10	515	11.60	495
3.10	514	11.90	494

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	34.0181159	Sum Observations	4694.5
Std Deviation	22.2493246	Variance	495.032443
Skewness	1.15238483	Kurtosis	1.26081259
Uncorrected SS	227517.49	Corrected SS	67819.4447
Coeff Variation	65.404341	Std Error Mean	1.89398828

Basic Statistical Measures			
Location		Variability	
Mean	34.01812	Std Deviation	22.24932
Median	29.50000	Variance	495.03244
Mode	14.00000	Range	102.00000
		Interquartile Range	25.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.9611	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	105.0
99%	98.0
95%	87.0
90%	63.0
75% Q3	43.0
50% Median	29.5
25% Q1	18.0
10%	10.0
5%	5.0
1%	3.0
0% Min	3.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NH4_ugl

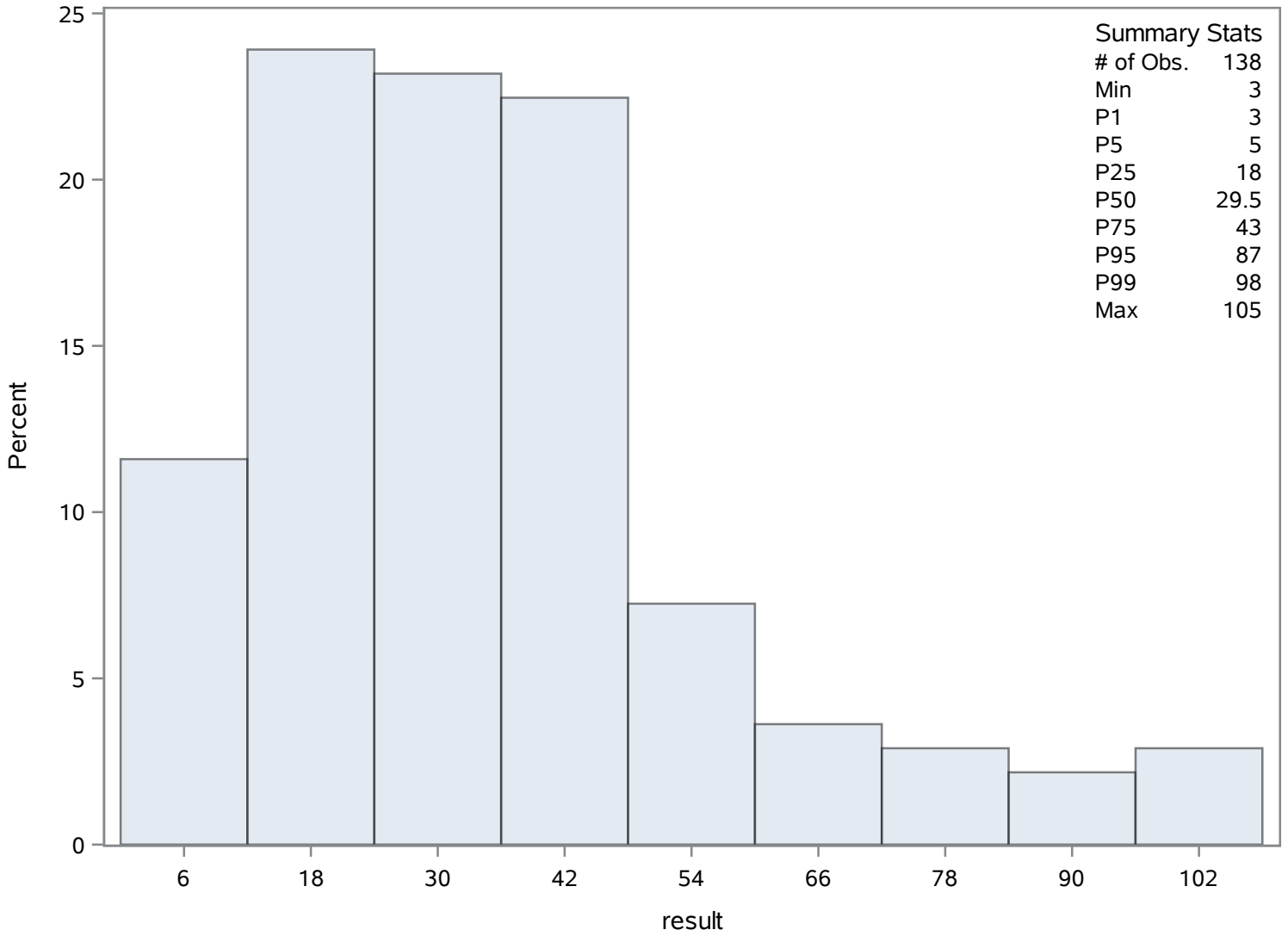
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	696	95	757
3	668	96	759
3	636	97	758
3	627	98	739
3	625	105	760

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	186.018841	Sum Observations	25670.6
Std Deviation	122.638541	Variance	15040.2118
Skewness	0.15330022	Kurtosis	-0.918131
Uncorrected SS	6835724.26	Corrected SS	2060509.01
Coeff Variation	65.9280214	Std Error Mean	10.4396859

Basic Statistical Measures			
Location		Variability	
Mean	186.0188	Std Deviation	122.63854
Median	196.0000	Variance	15040
Mode	30.0000	Range	431.00000
		Interquartile Range	198.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.81843	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	434
99%	426
95%	421
90%	362
75% Q3	264
50% Median	196
25% Q1	66
10%	20
5%	6
1%	3
0% Min	3

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NO3_ugL

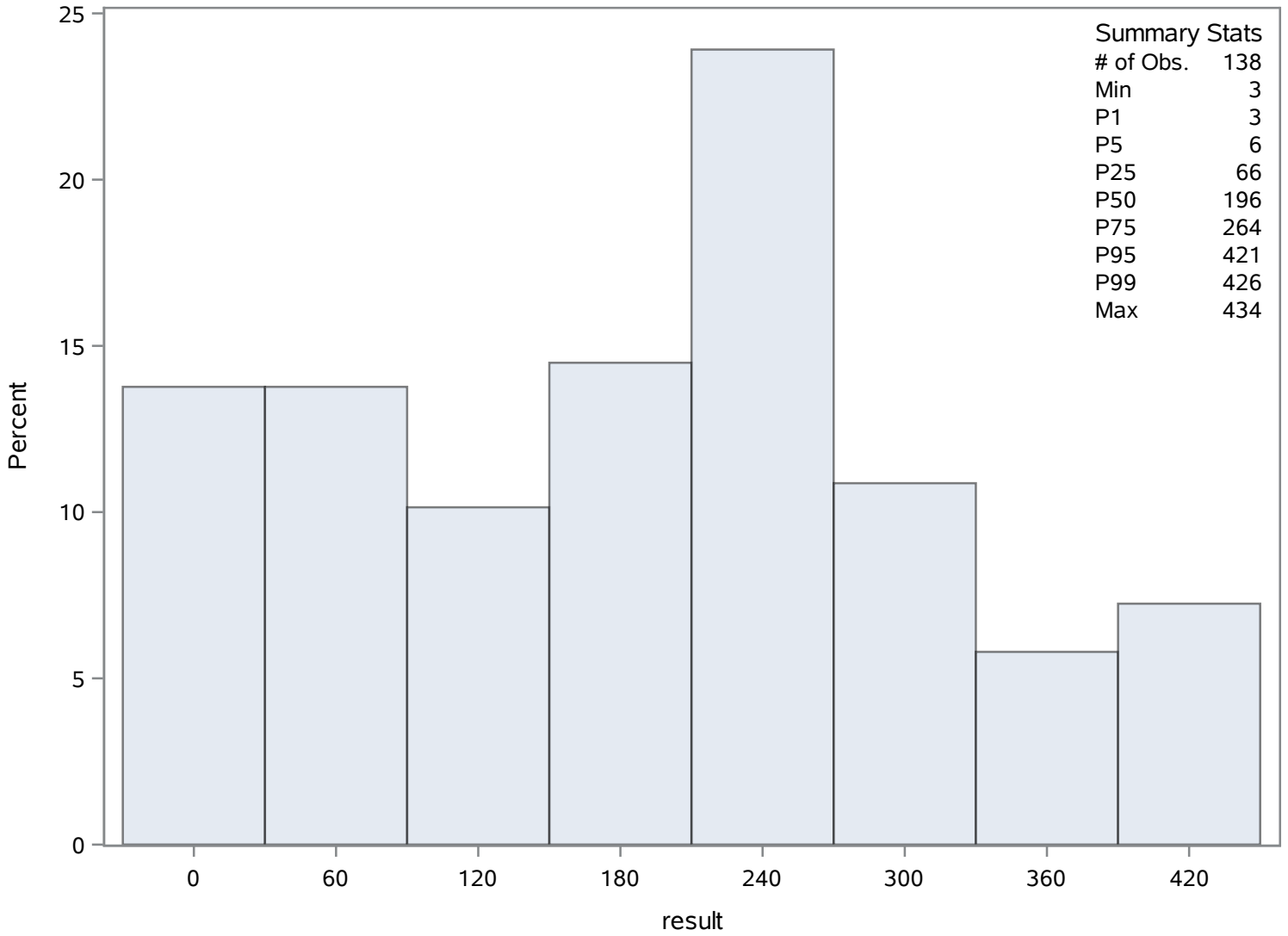
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	833	426	896
3	763	426	897
4	832	426	899
4	771	426	900
5	772	434	824

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.07630435	Sum Observations	562.53
Std Deviation	2.57666793	Variance	6.63921763
Skewness	2.1170743	Kurtosis	4.57098628
Uncorrected SS	3202.6163	Corrected SS	909.572815
Coeff Variation	63.210882	Std Error Mean	0.21934054

Basic Statistical Measures			
Location		Variability	
Mean	4.076304	Std Deviation	2.57667
Median	3.300000	Variance	6.63922
Mode	1.910000	Range	13.14000
		Interquartile Range	2.44000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.58436	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.67
99%	12.43
95%	11.82
90%	6.97
75% Q3	4.72
50% Median	3.30
25% Q1	2.28
10%	1.92
5%	1.87
1%	1.68
0% Min	1.53

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SAL_Perc

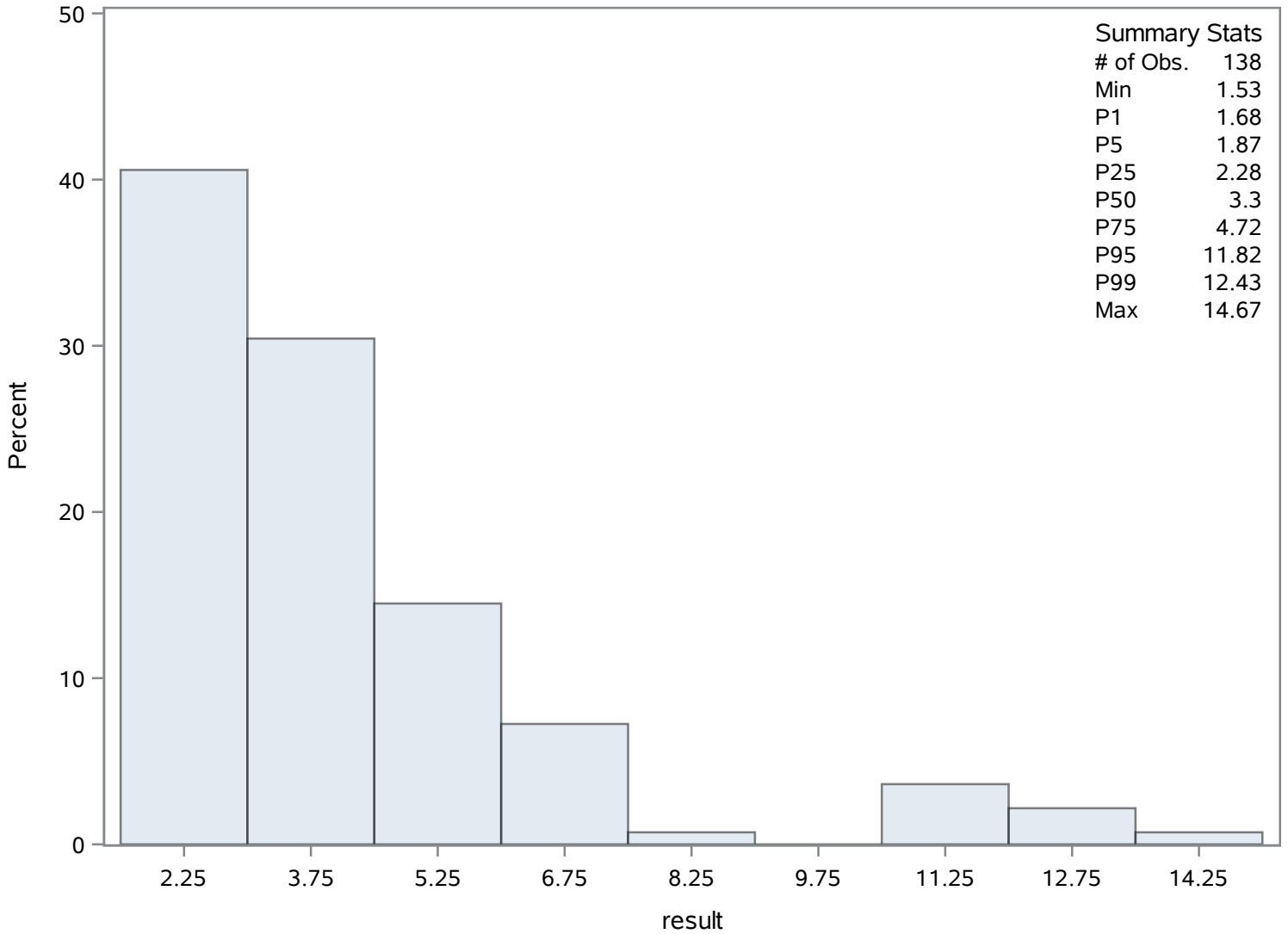
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.53	938	11.97	942
1.68	937	12.09	941
1.79	968	12.33	982
1.82	939	12.43	1012
1.86	962	14.67	983

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.33680435	Sum Observations	1012.479
Std Deviation	4.2553831	Variance	18.1082853
Skewness	1.95333923	Kurtosis	3.90191394
Uncorrected SS	9909.19542	Corrected SS	2480.83509
Coeff Variation	58.0004986	Std Error Mean	0.36224227

Basic Statistical Measures			
Location		Variability	
Mean	7.336804	Std Deviation	4.25538
Median	6.059500	Variance	18.10829
Mode	3.550000	Range	21.22000
		Interquartile Range	4.27900

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	20.25386	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.1700
99%	20.9100
95%	19.7900
90%	12.2900
75% Q3	8.5330
50% Median	6.0595
25% Q1	4.2540
10%	3.6300
5%	3.5500

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

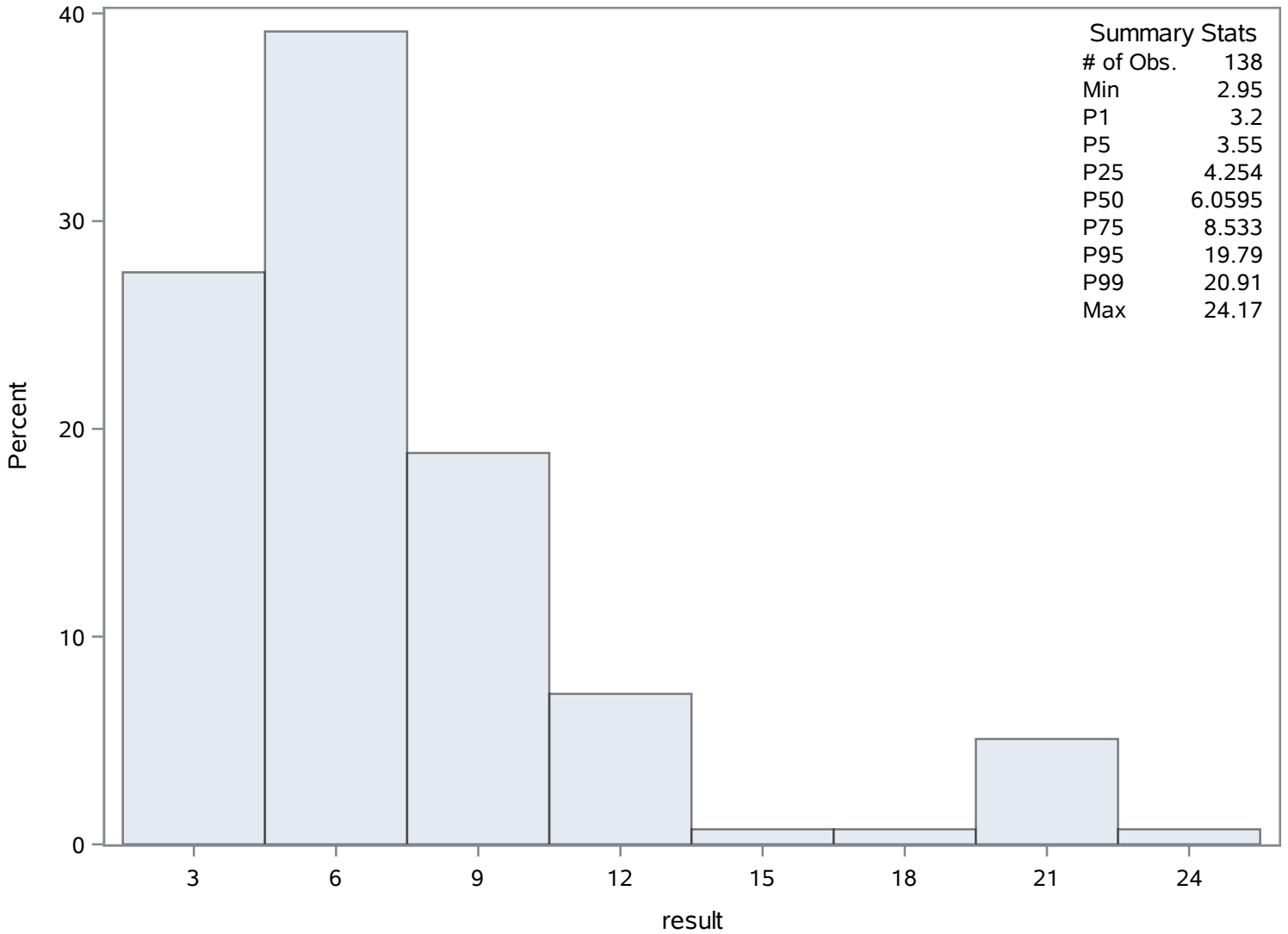
Quantiles (Definition 5)	
Level	Quantile
1%	3.2000
0% Min	2.9500

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.950	1076	20.15	1079
3.200	1075	20.49	1080
3.401	1106	20.76	1150
3.490	1077	20.91	1120
3.530	1091	24.17	1121

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	132	Sum Weights	132
Mean	7.83333333	Sum Observations	1034
Std Deviation	5.28308068	Variance	27.9109415
Skewness	1.13639337	Kurtosis	0.8518864
Uncorrected SS	11756	Corrected SS	3656.33333
Coeff Variation	67.4435832	Std Error Mean	0.45983315

Basic Statistical Measures			
Location		Variability	
Mean	7.833333	Std Deviation	5.28308
Median	6.500000	Variance	27.91094
Mode	2.000000	Range	25.00000
		Interquartile Range	6.00000

Note: The mode displayed is the smallest of 4 modes with a count of 13.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.03516	Pr > t 	<.0001
Sign	M	66	Pr >= M 	<.0001
Signed Rank	S	4389	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.0
99%	23.0
95%	19.0
90%	16.0
75% Q3	10.0
50% Median	6.5
25% Q1	4.0
10%	2.0
5%	2.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SRP_ugL

The UNIVARIATE Procedure
Variable: result

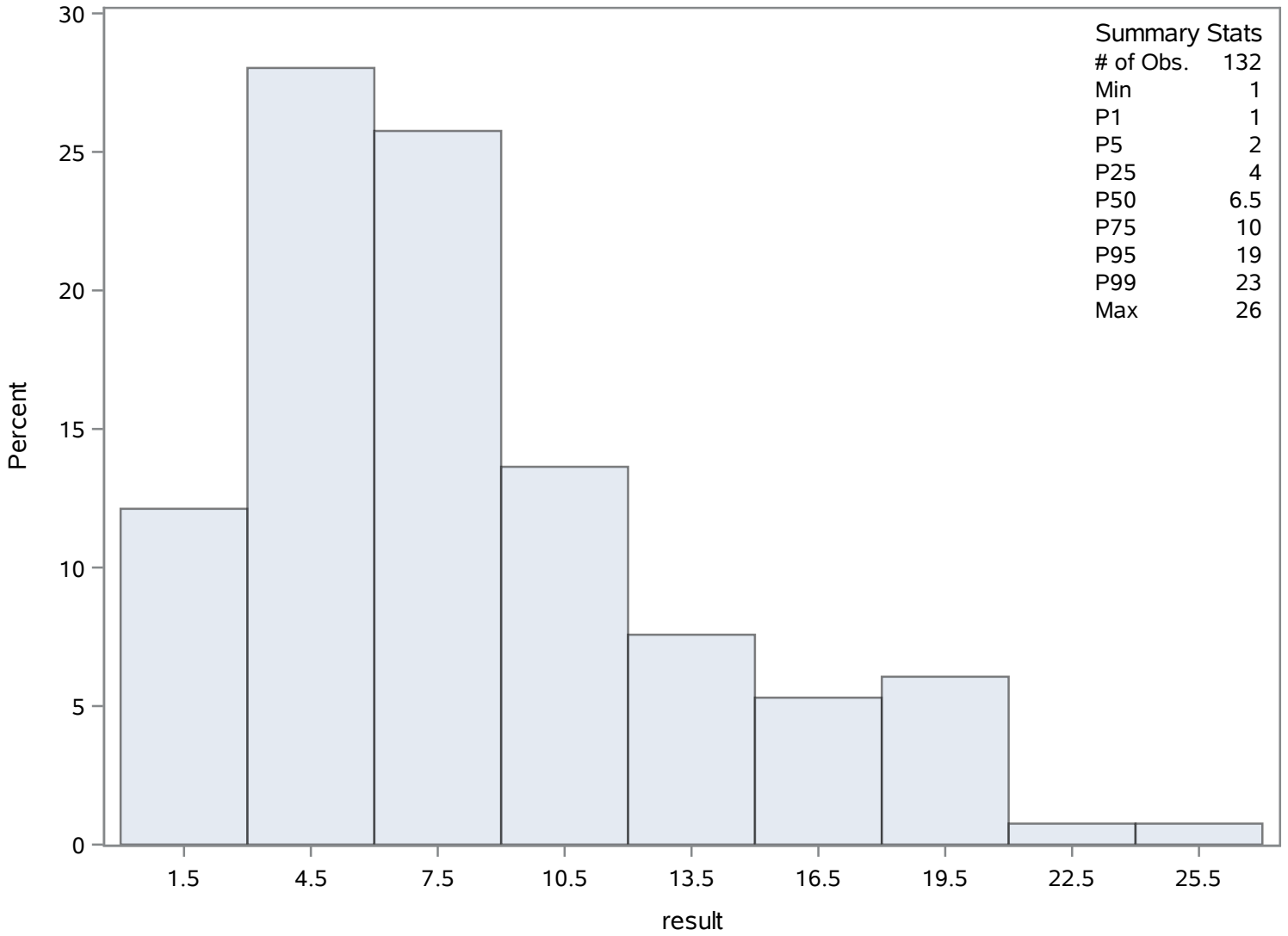
Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1300	20	1291
1	1243	20	1293
1	1232	20	1303
2	1302	23	1304
2	1301	26	1305

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.7519565	Sum Observations	3277.77
Std Deviation	3.93985158	Variance	15.5224305
Skewness	0.11226666	Kurtosis	-1.1891066
Uncorrected SS	79980.0235	Corrected SS	2126.57297
Coeff Variation	16.5874823	Std Error Mean	0.33538244

Basic Statistical Measures			
Location		Variability	
Mean	23.75196	Std Deviation	3.93985
Median	22.36000	Variance	15.52243
Mode	21.36000	Range	15.24000
		Interquartile Range	6.30000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	70.82051	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.99
99%	30.87
95%	29.96
90%	29.12
75% Q3	27.20
50% Median	22.36
25% Q1	20.90
10%	19.11
5%	18.40

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TEMP_C

The UNIVARIATE Procedure
Variable: result

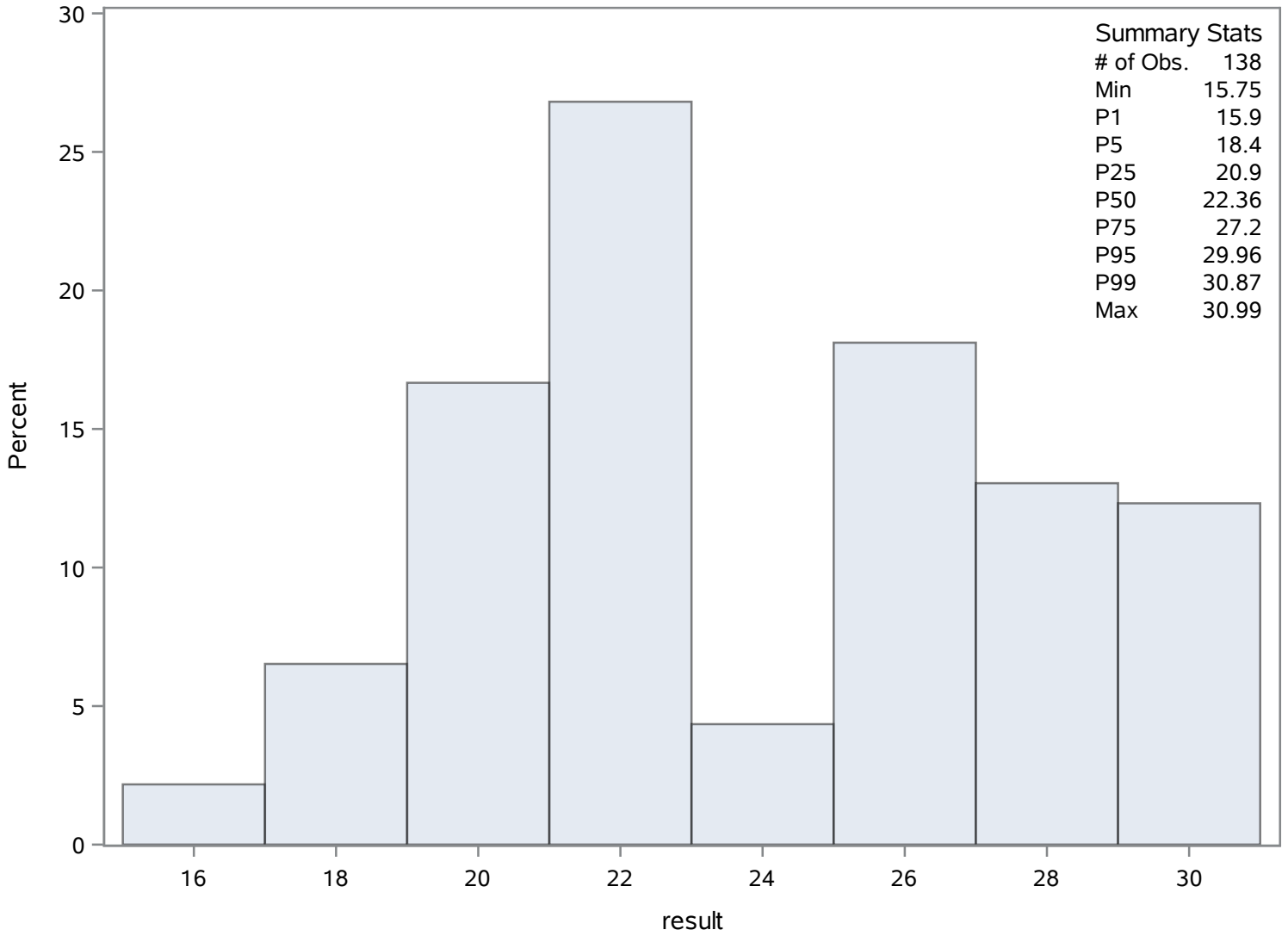
Quantiles (Definition 5)	
Level	Quantile
1%	15.90
0% Min	15.75

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
15.75	1423	30.16	1429
15.90	1424	30.45	1394
16.52	1425	30.50	1431
17.20	1338	30.87	1395
17.30	1337	30.99	1393

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	503.160584	Sum Observations	68933
Std Deviation	163.516065	Variance	26737.5034
Skewness	1.19351359	Kurtosis	2.7679273
Uncorrected SS	38320669	Corrected SS	3636300.47
Coeff Variation	32.497789	Std Error Mean	13.9701202

Basic Statistical Measures			
Location		Variability	
Mean	503.1606	Std Deviation	163.51606
Median	492.0000	Variance	26738
Mode	320.0000	Range	1020
		Interquartile Range	183.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	36.01691	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1230
99%	970
95%	860
90%	690
75% Q3	573
50% Median	492
25% Q1	390
10%	320
5%	280
1%	230
0% Min	210

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TN_ugl

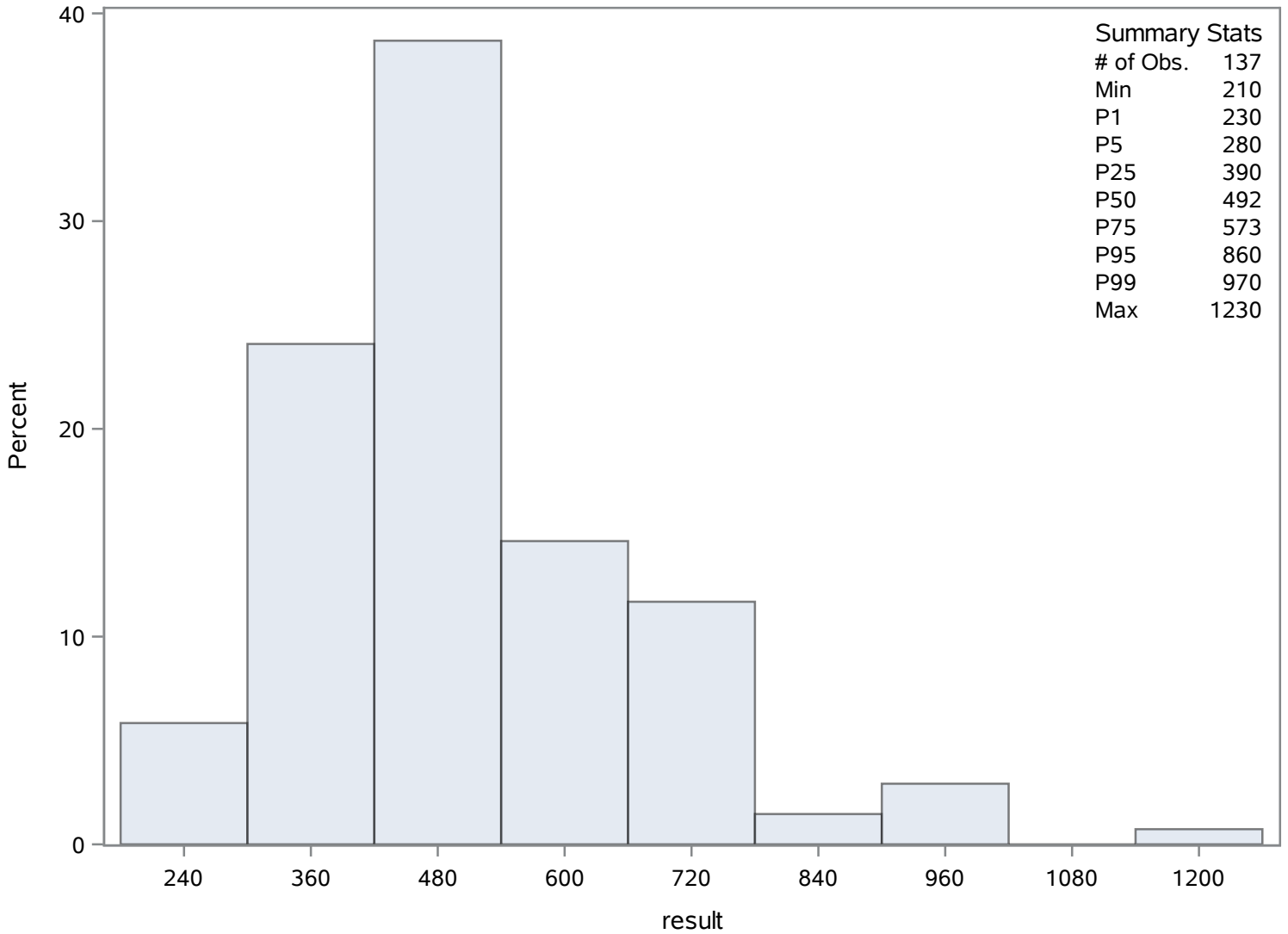
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
210	1516	910	1536
230	1515	920	1578
250	1575	970	1579
250	1464	970	1580
280	1518	1230	1569

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	28.3115942	Sum Observations	3907
Std Deviation	12.3606396	Variance	152.785412
Skewness	2.91973993	Kurtosis	17.5760329
Uncorrected SS	131545	Corrected SS	20931.6014
Coeff Variation	43.6592851	Std Error Mean	1.05220752

Basic Statistical Measures			
Location		Variability	
Mean	28.31159	Std Deviation	12.36064
Median	26.00000	Variance	152.78541
Mode	22.00000	Range	106.00000
		Interquartile Range	13.00000

Note: The mode displayed is the smallest of 3 modes with a count of 7.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.90685	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	116
99%	59
95%	46
90%	43
75% Q3	34
50% Median	26
25% Q1	21
10%	16
5%	14

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TP_ugl

The UNIVARIATE Procedure
Variable: result

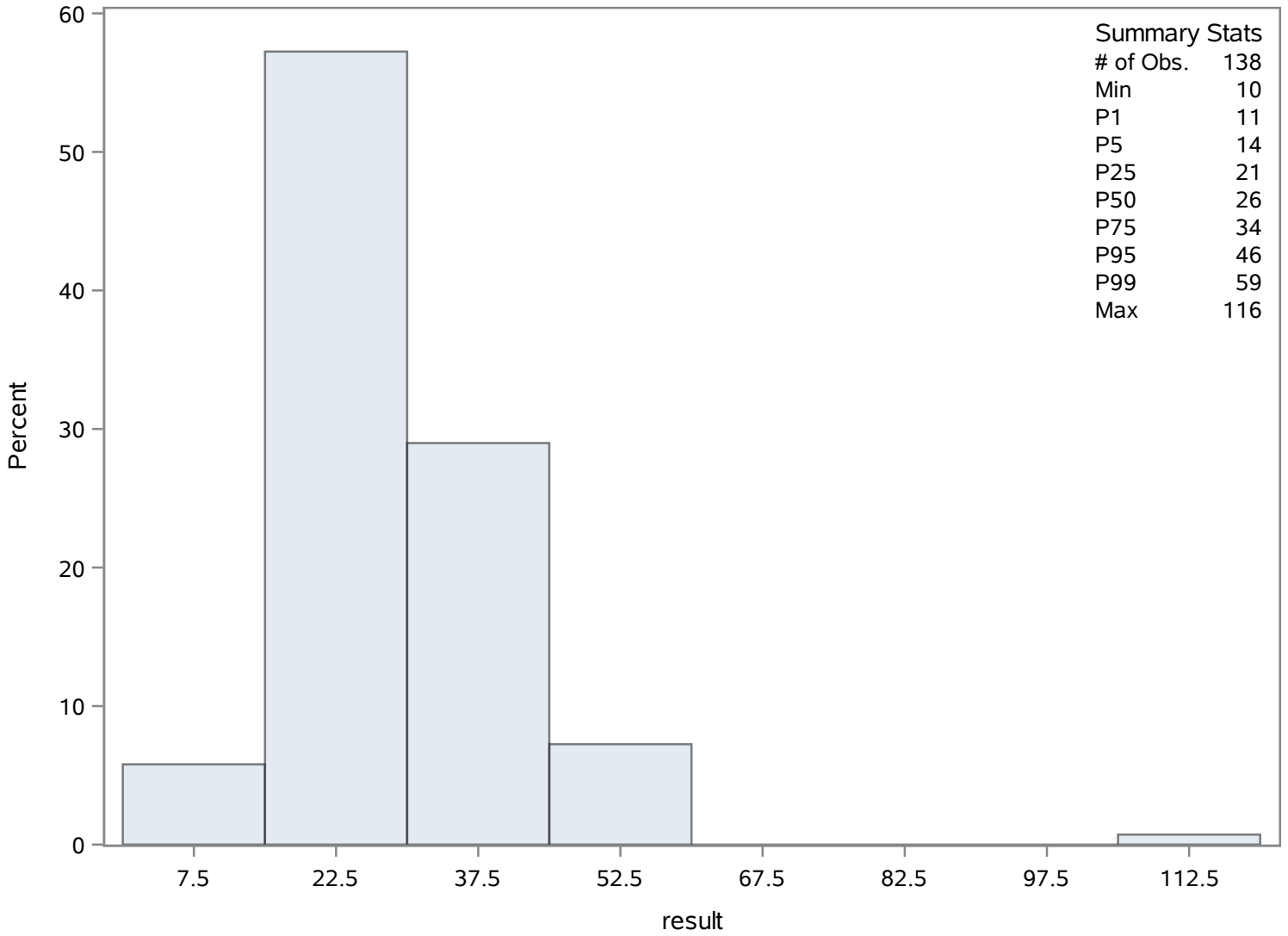
Quantiles (Definition 5)	
Level	Quantile
1%	11
0% Min	10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	1642	52	1617
11	1651	53	1674
11	1650	56	1673
12	1652	59	1708
13	1643	116	1707

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Summary Stats

# of Obs.	138
Min	10
P1	11
P5	14
P25	21
P50	26
P75	34
P95	46
P99	59
Max	116

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.7525	Sum Observations	837.27
Std Deviation	0.2363038	Variance	0.05583949
Skewness	0.17886058	Kurtosis	-0.1902477
Uncorrected SS	6496.9105	Corrected SS	5.974825
Coeff Variation	3.04809804	Std Error Mean	0.02273834

Basic Statistical Measures			
Location		Variability	
Mean	7.752500	Std Deviation	0.23630
Median	7.720000	Variance	0.05584
Mode	7.600000	Range	1.15000
		Interquartile Range	0.31000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	340.9439	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.260
99%	8.250
95%	8.200
90%	8.050
75% Q3	7.905
50% Median	7.720
25% Q1	7.595
10%	7.470
5%	7.410
1%	7.260
0% Min	7.110

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Field

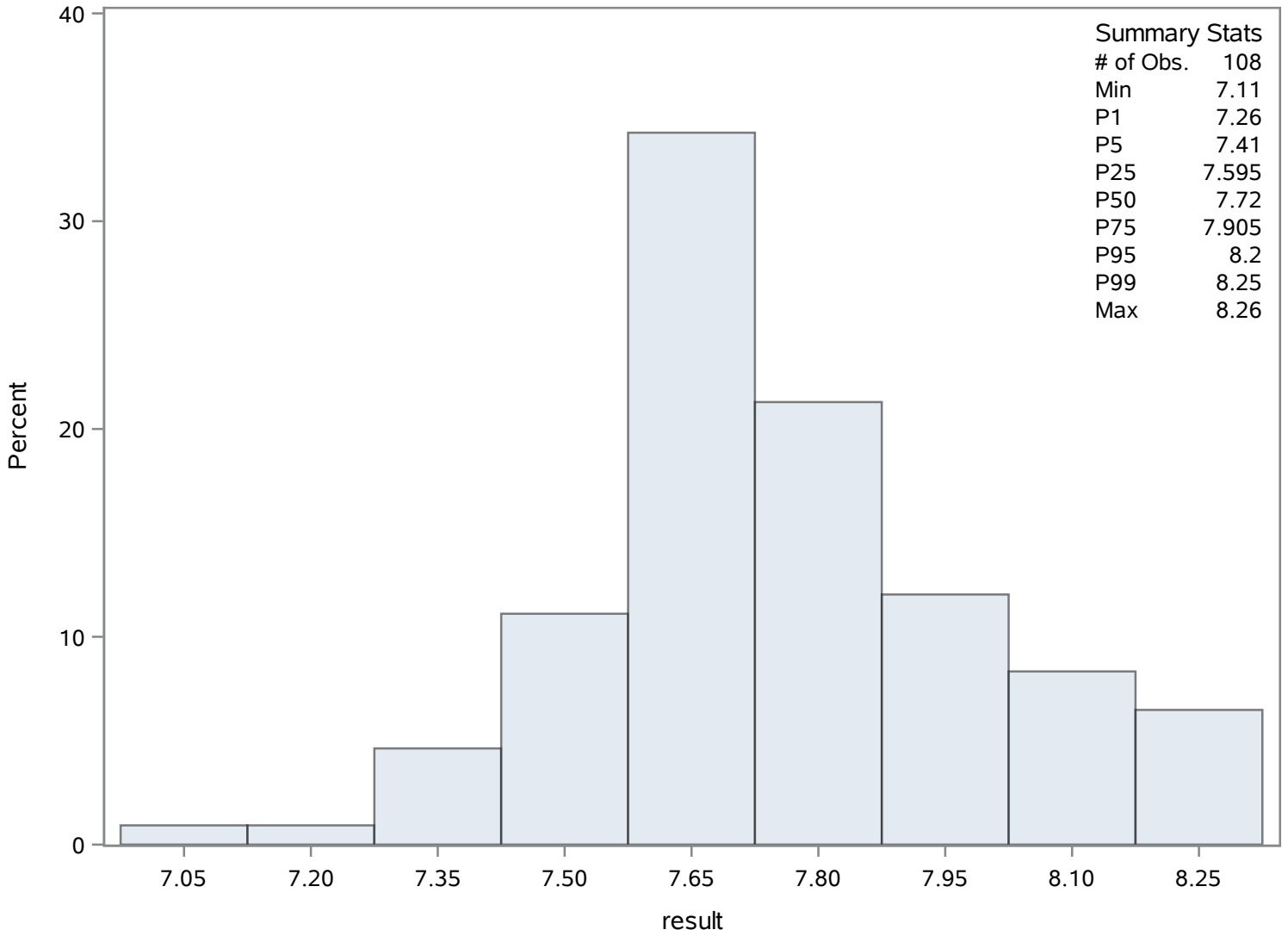
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.11	1812	8.23	1780
7.26	1813	8.23	1781
7.31	1788	8.24	1820
7.35	1809	8.25	1819
7.38	1789	8.26	1818

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.87173913	Sum Observations	1086.3
Std Deviation	0.16388937	Variance	0.02685973
Skewness	0.45444992	Kurtosis	0.95749197
Uncorrected SS	8554.75	Corrected SS	3.67978261
Coeff Variation	2.08199702	Std Error Mean	0.01395119

Basic Statistical Measures			
Location		Variability	
Mean	7.871739	Std Deviation	0.16389
Median	7.900000	Variance	0.02686
Mode	7.800000	Range	1.00000
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	564.2342	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.4
99%	8.3
95%	8.1
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.7
5%	7.7
1%	7.5
0% Min	7.4

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Lab

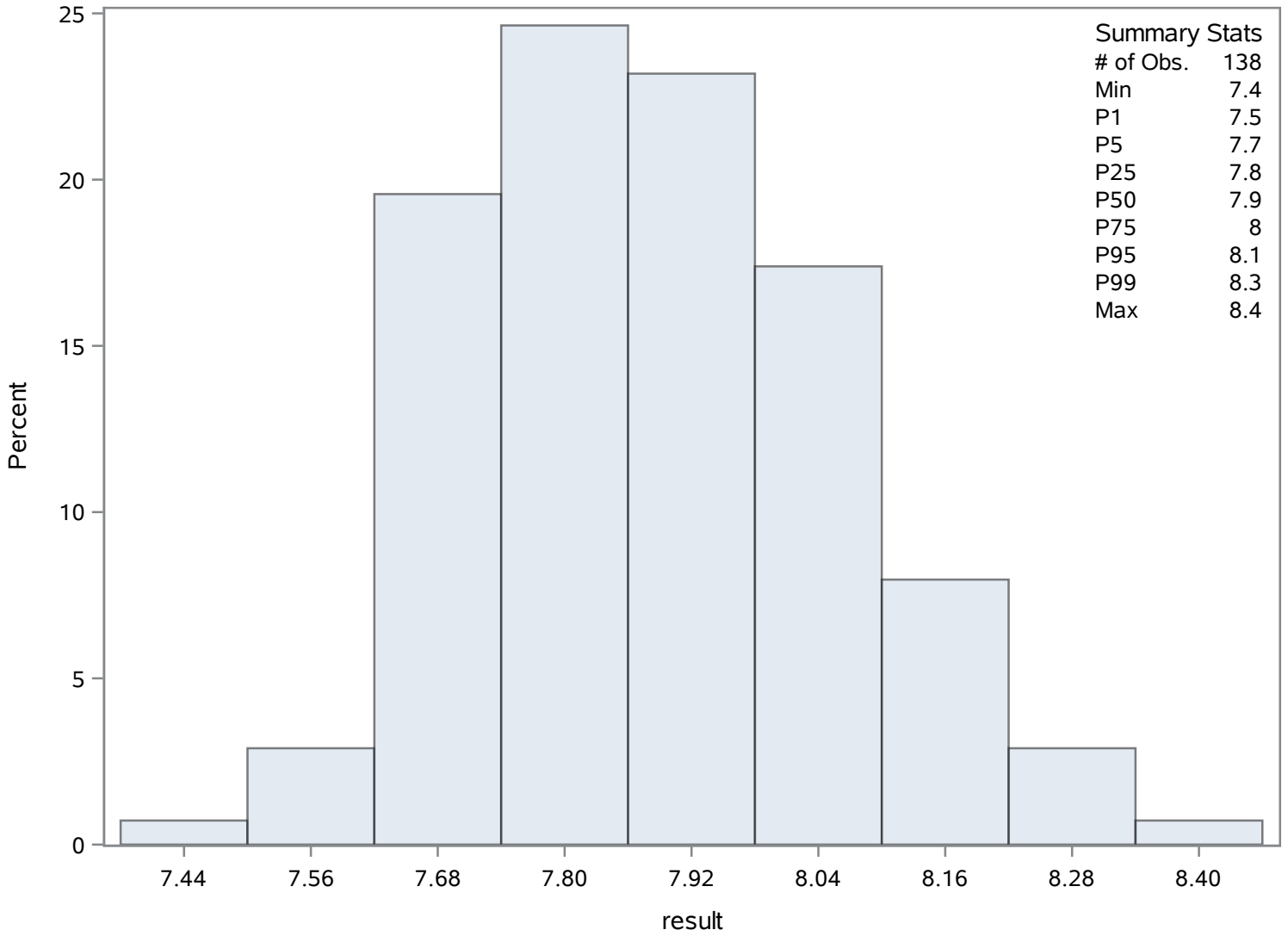
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.4	1962	8.3	1836
7.5	1964	8.3	1837
7.5	1963	8.3	1838
7.6	1856	8.3	1958
7.6	1854	8.4	1957

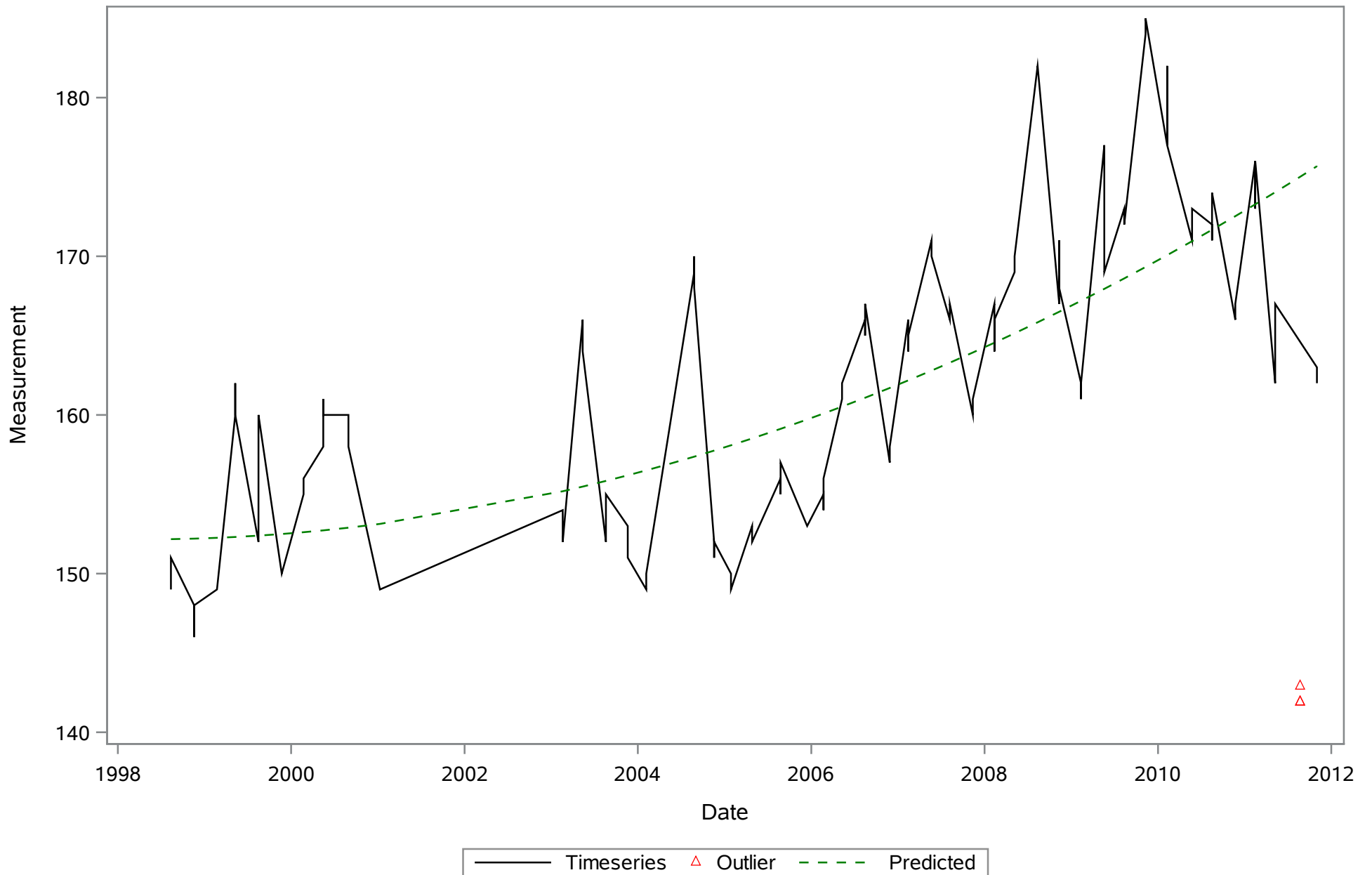
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Lab

The UNIVARIATE Procedure

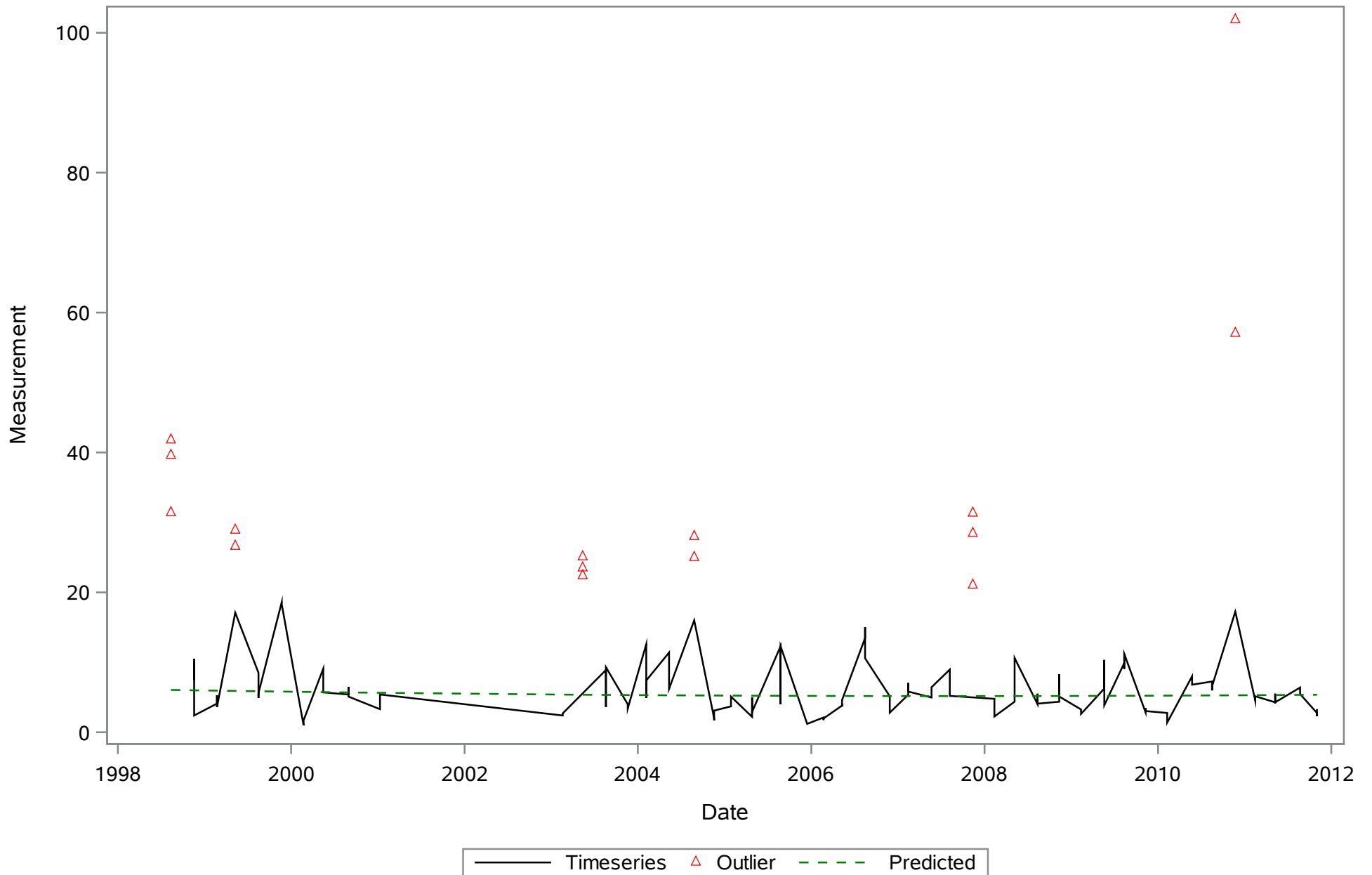
Distribution of result



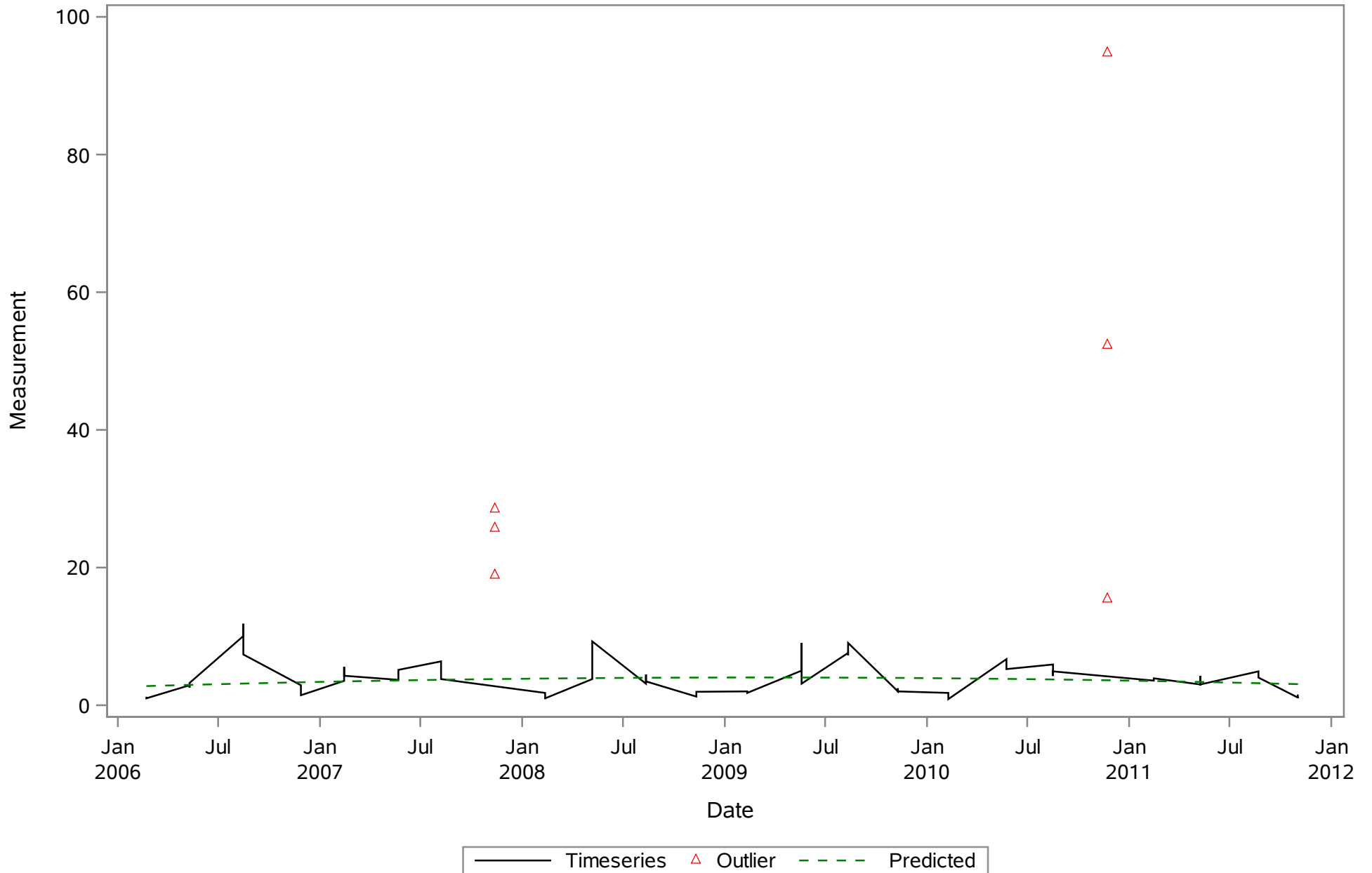
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
ALK_tot_mgL



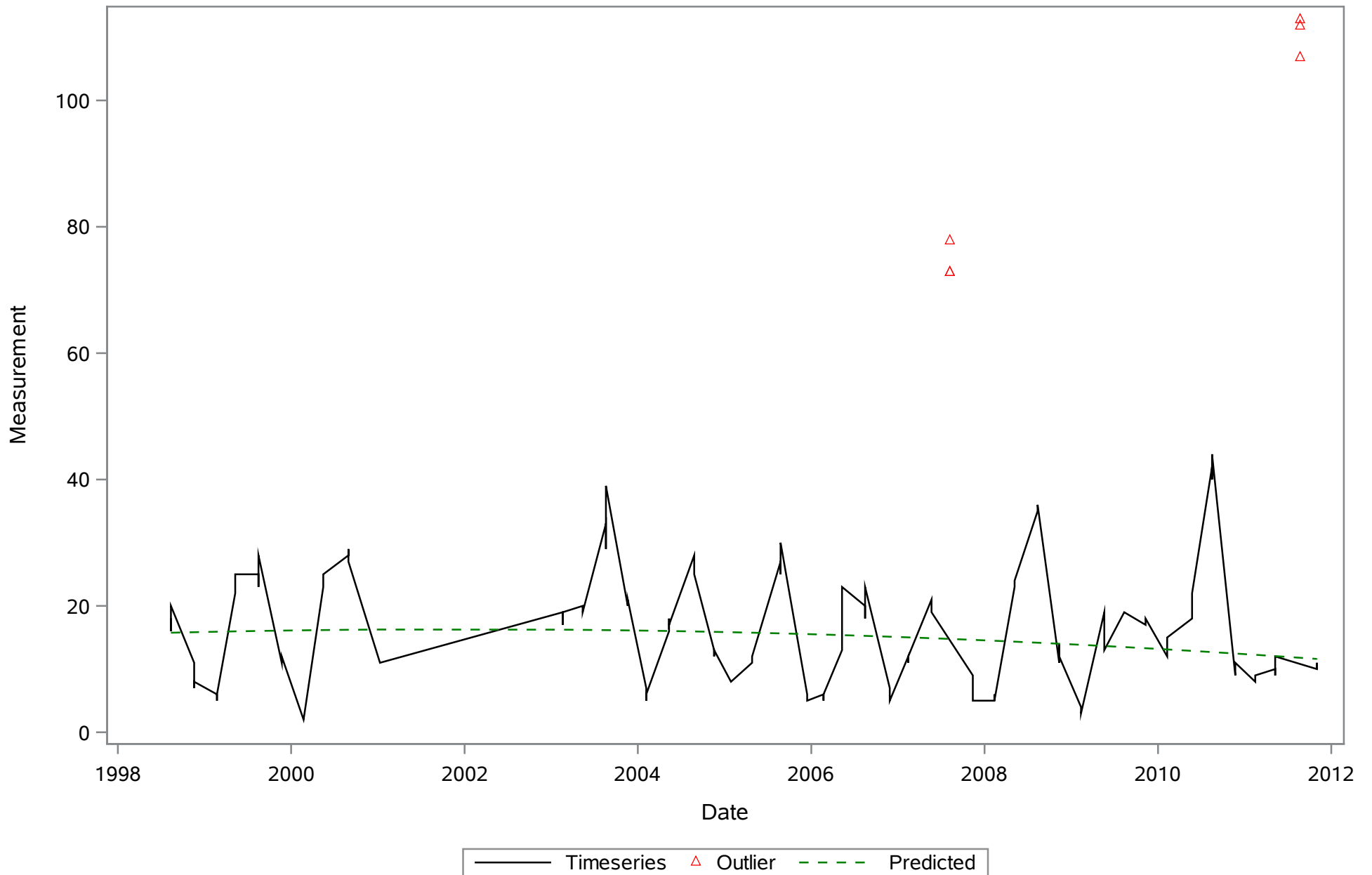
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_Uncor_ugL



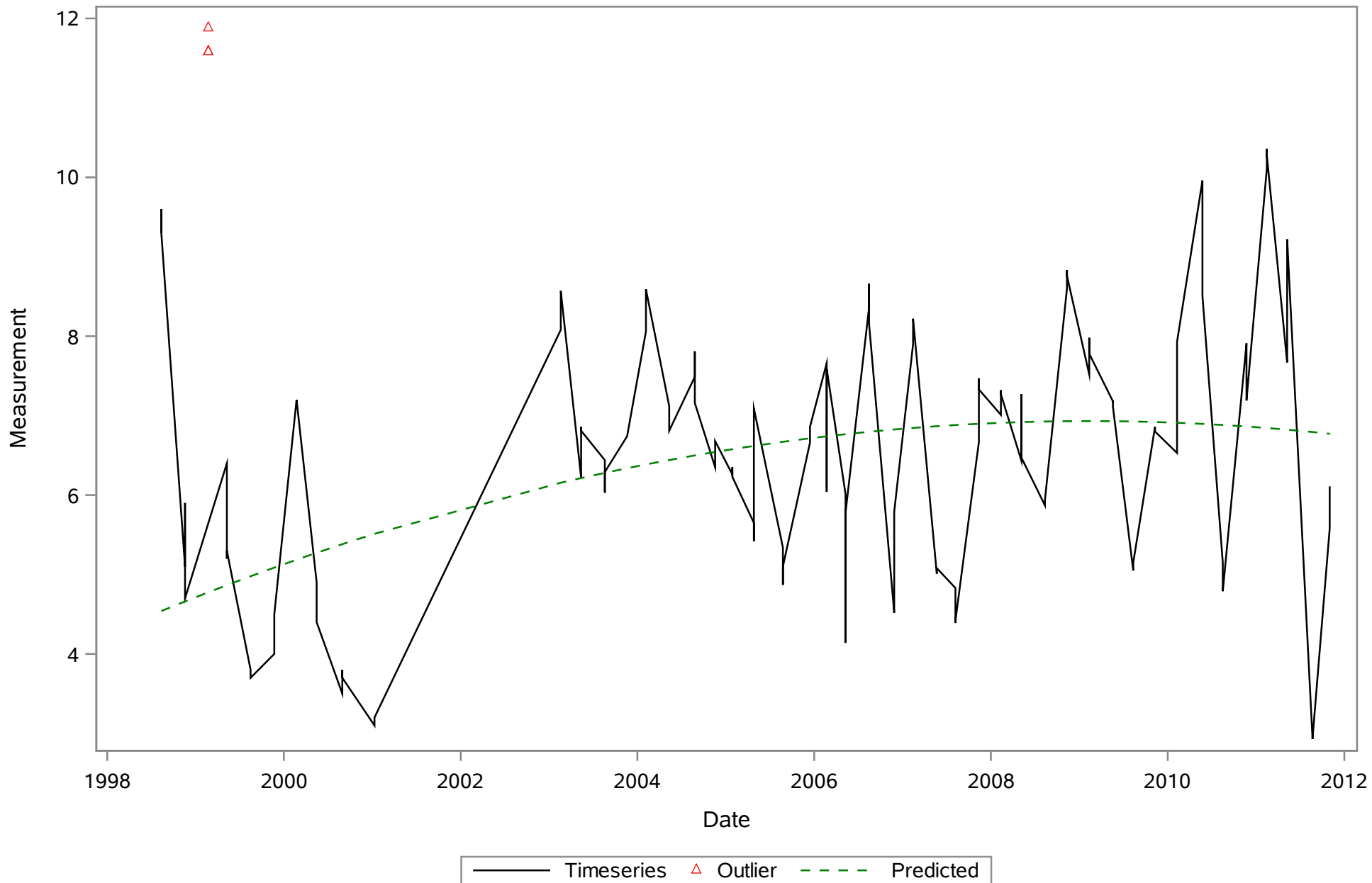
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_cor_ugl



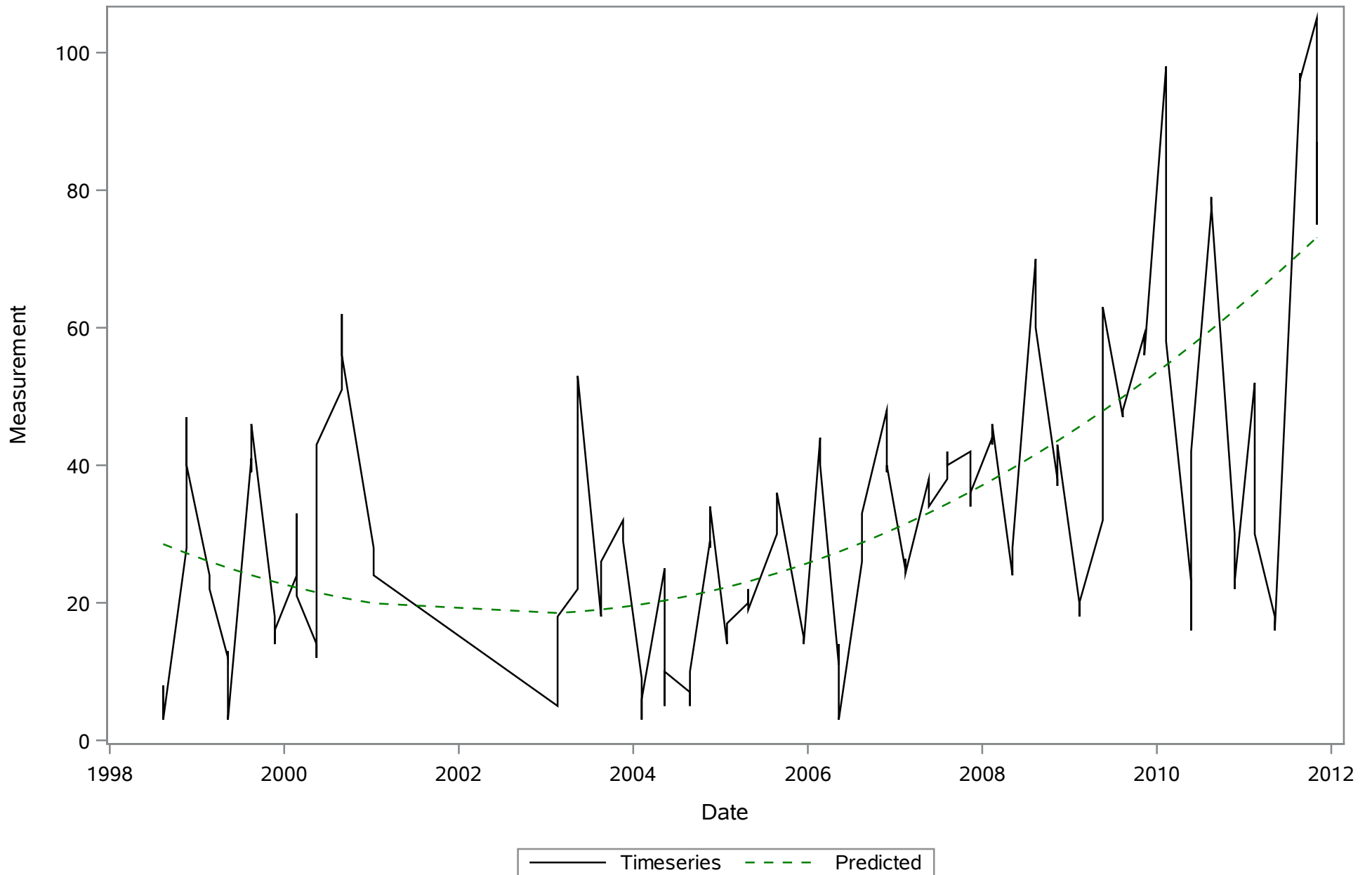
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
COLOR_PtCo



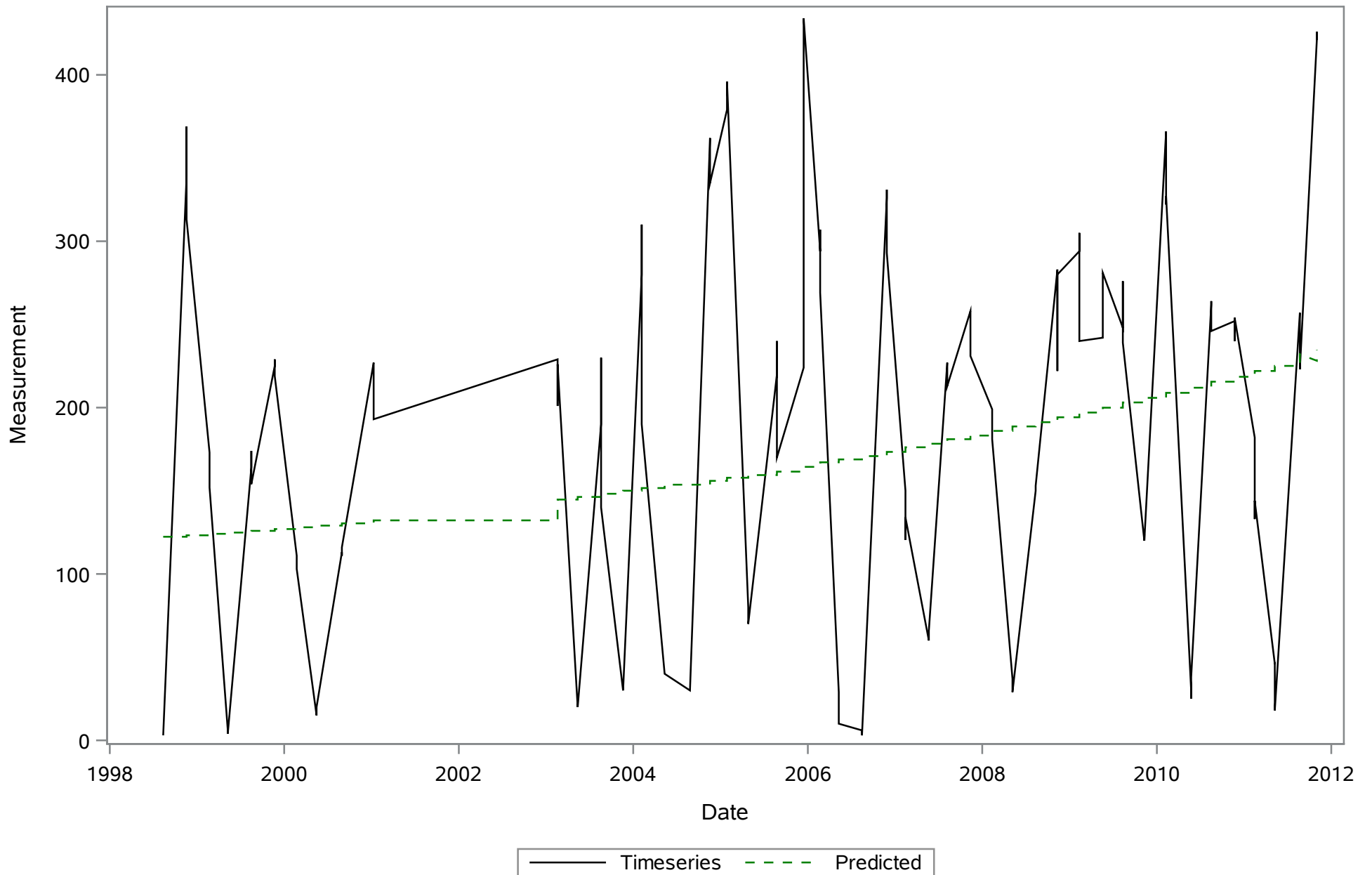
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
DO_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NH₄_ugl

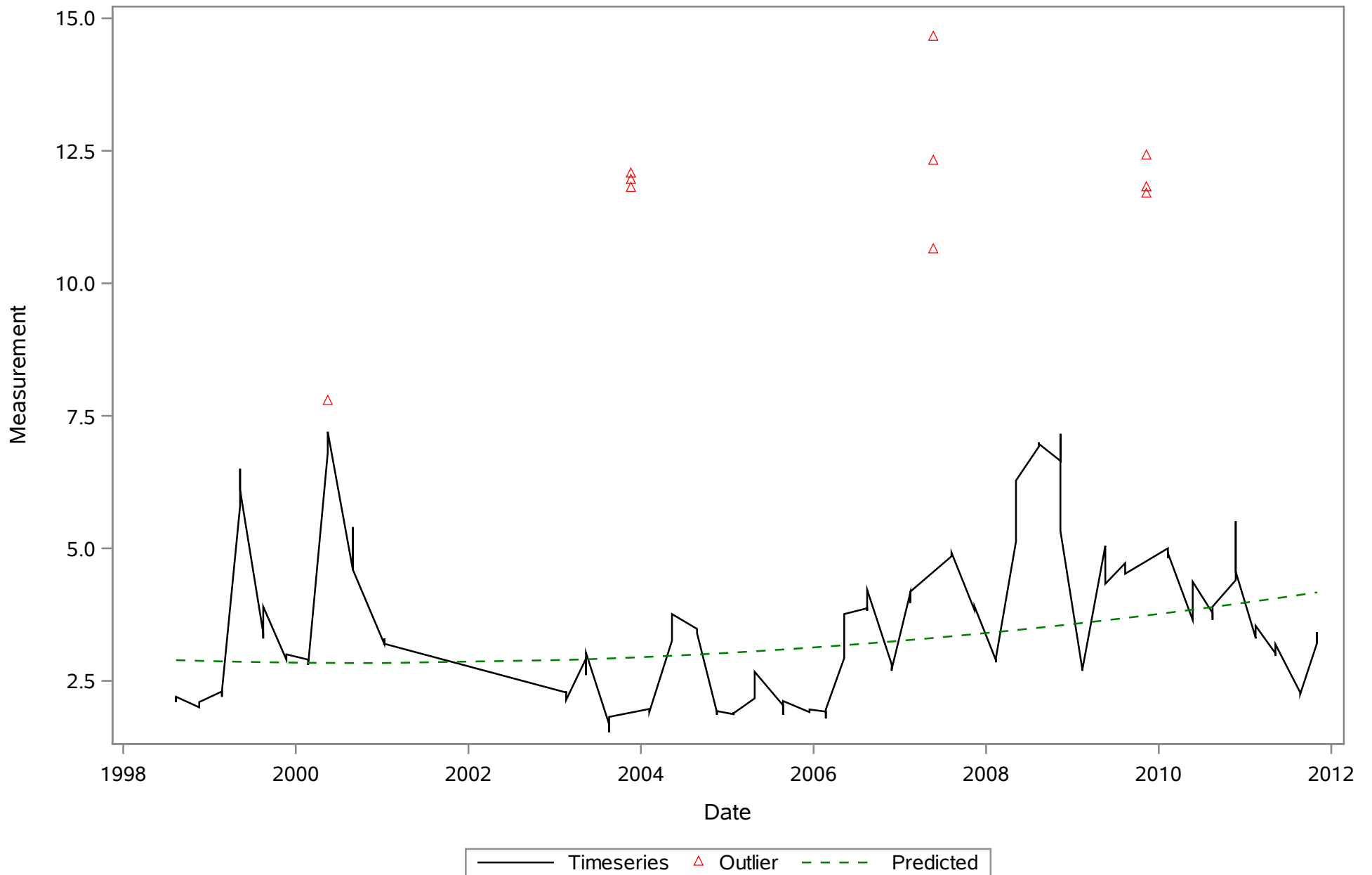


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NO3_ugL

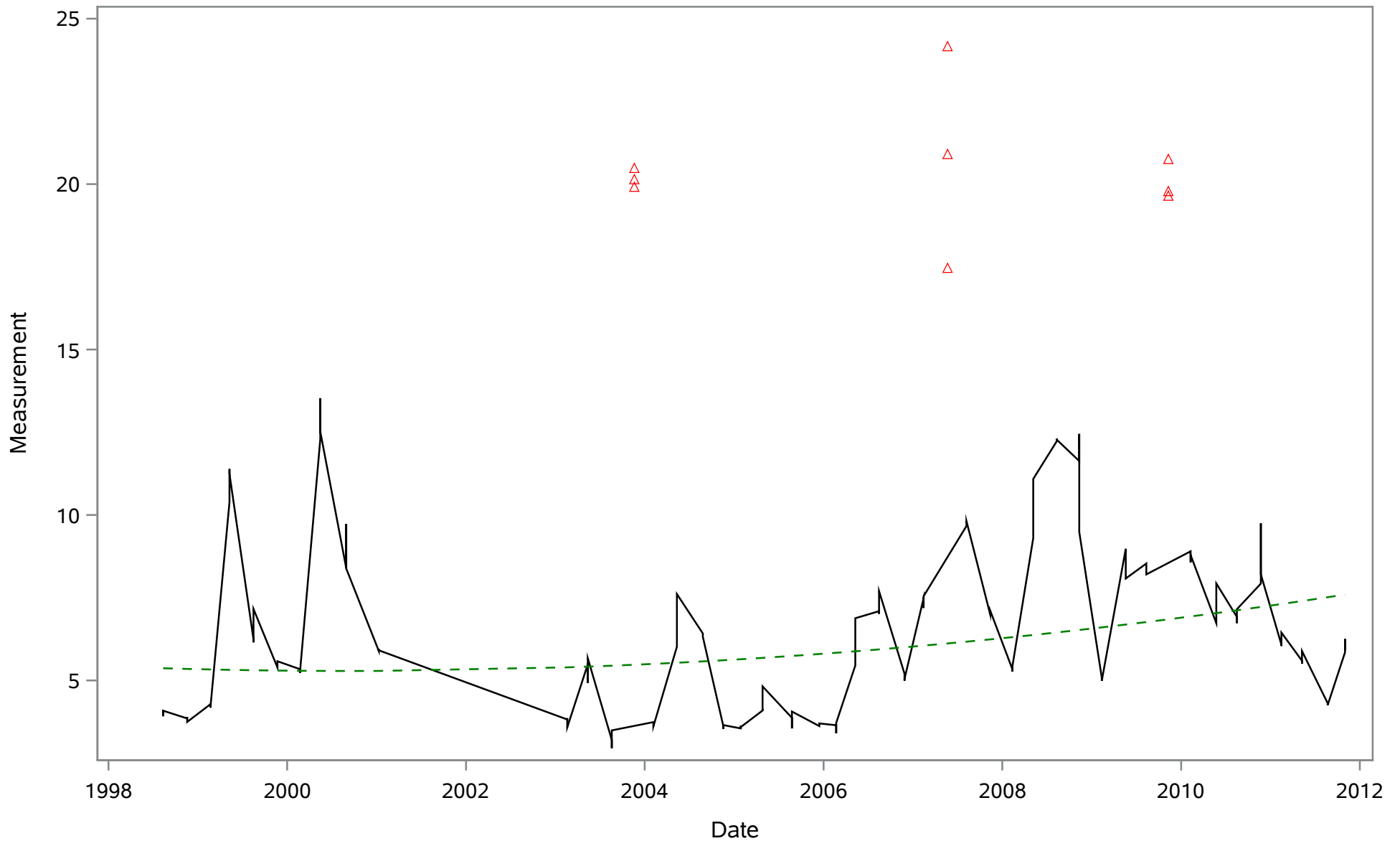


Chassahowitzka River - Fixed Station

Source: UF 5 Rivers Study
Transect 10
SAL_Perc

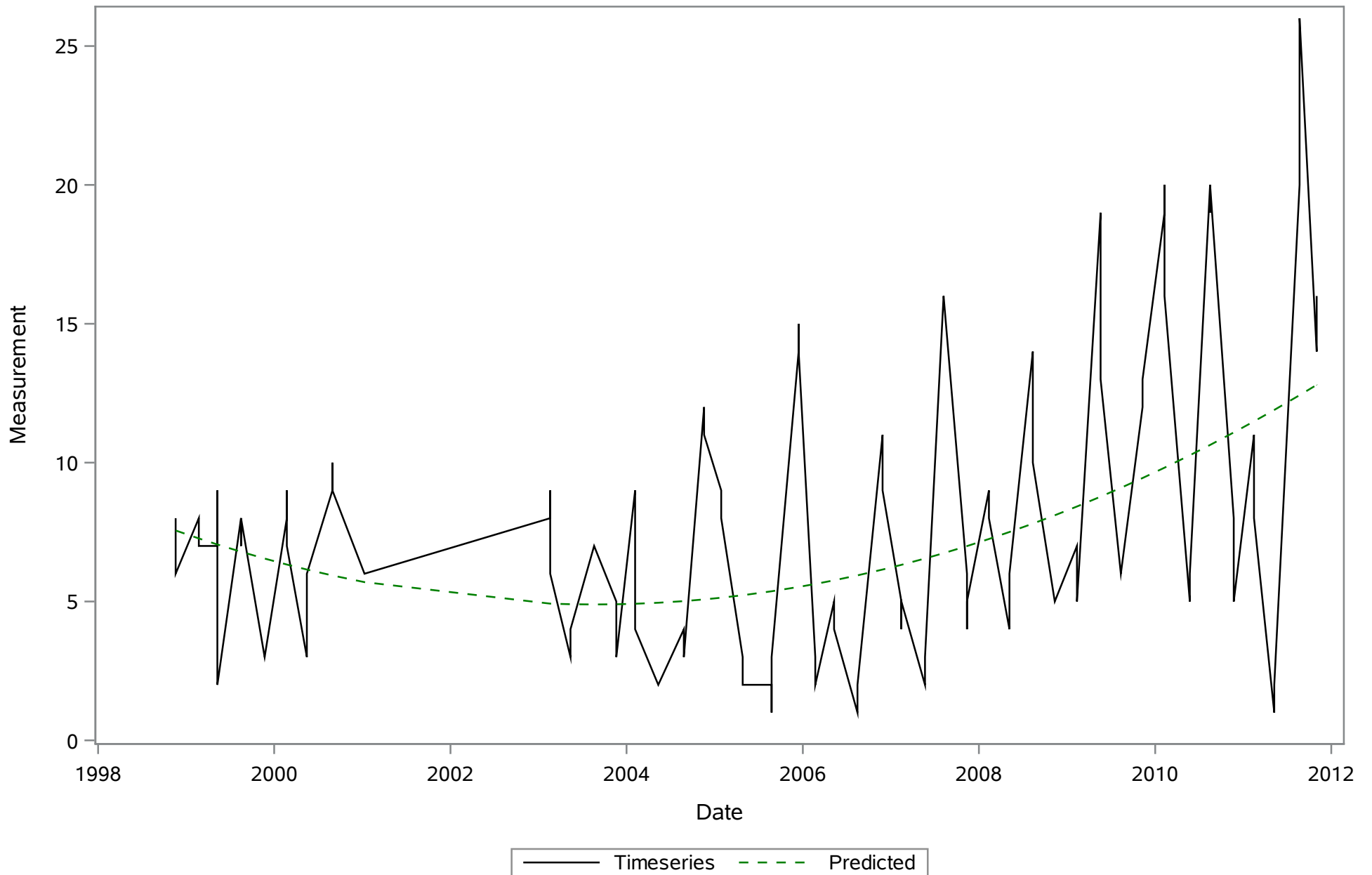


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SPCOND_mS_cm

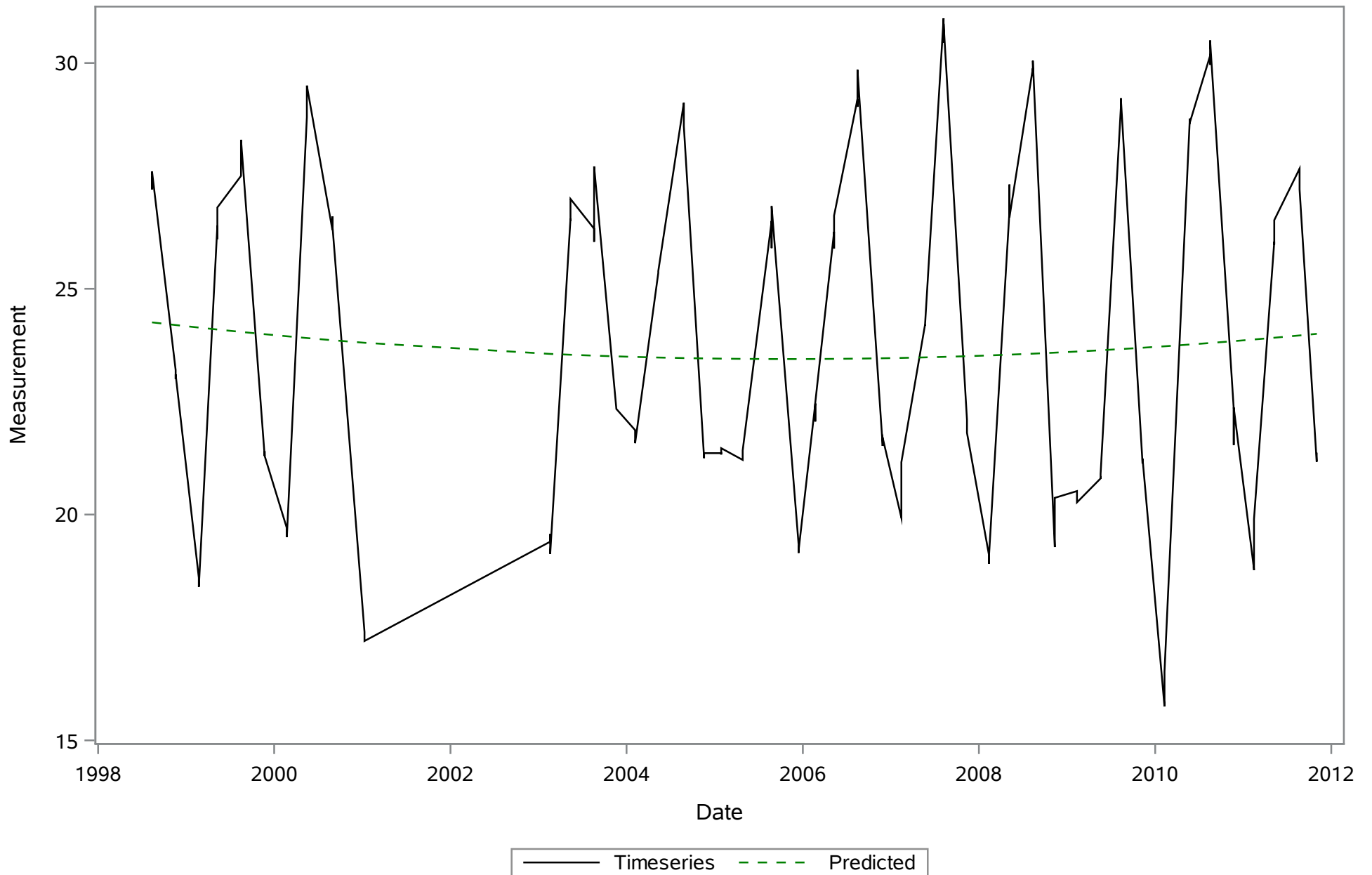


— Timeseries △ Outlier - - - Predicted

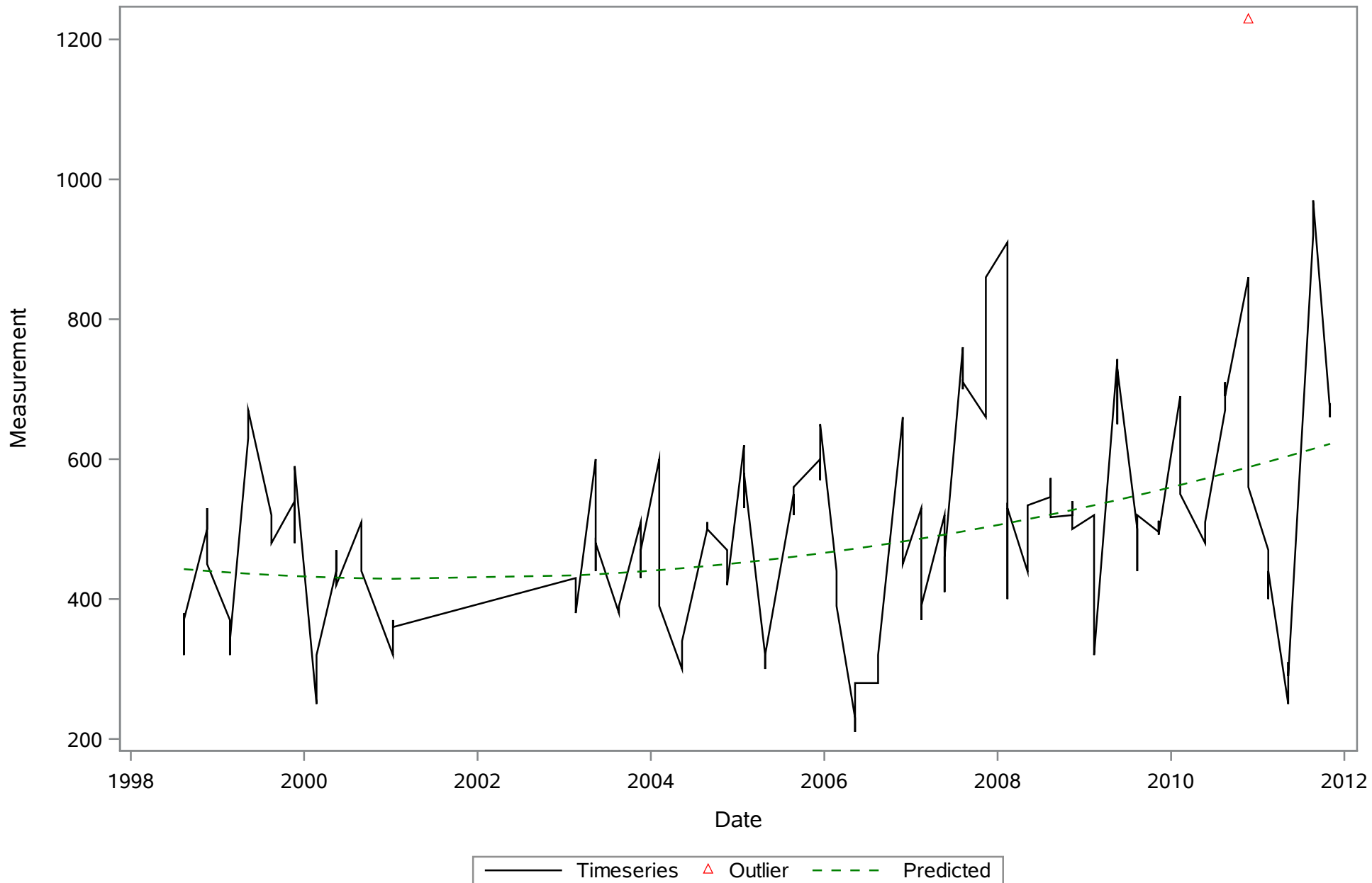
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SRP_ugL



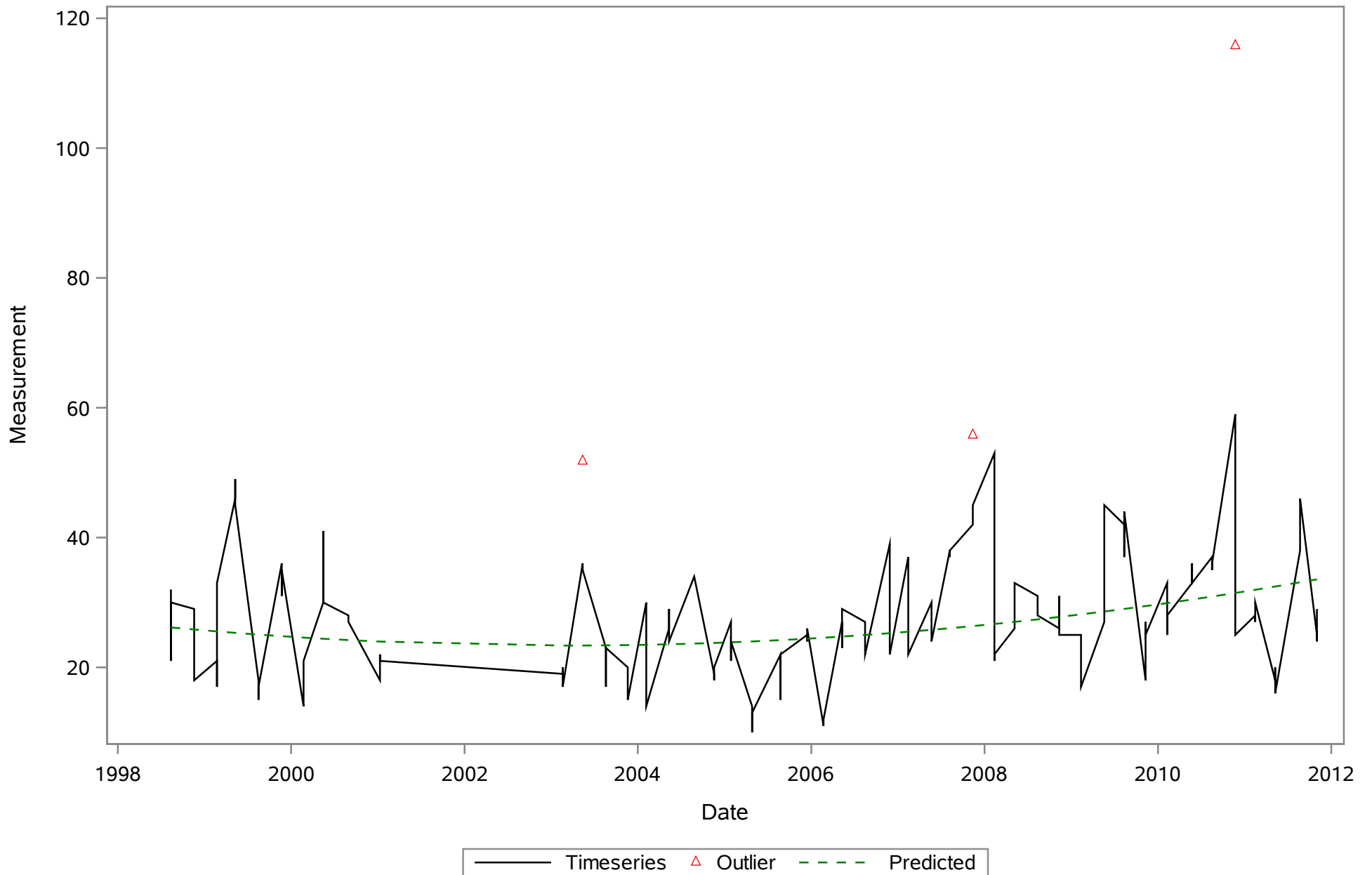
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TEMP_C



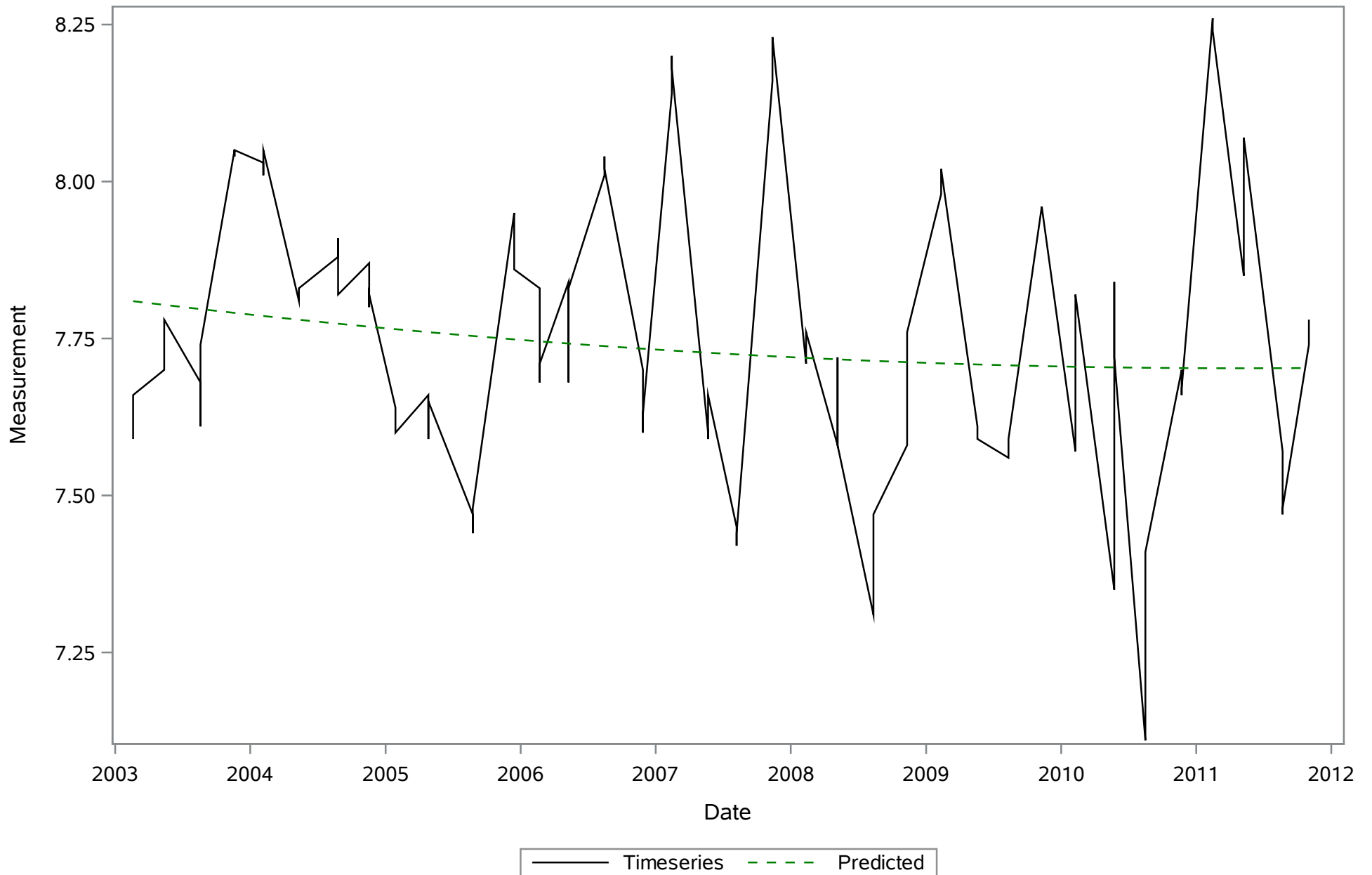
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TN_ugl



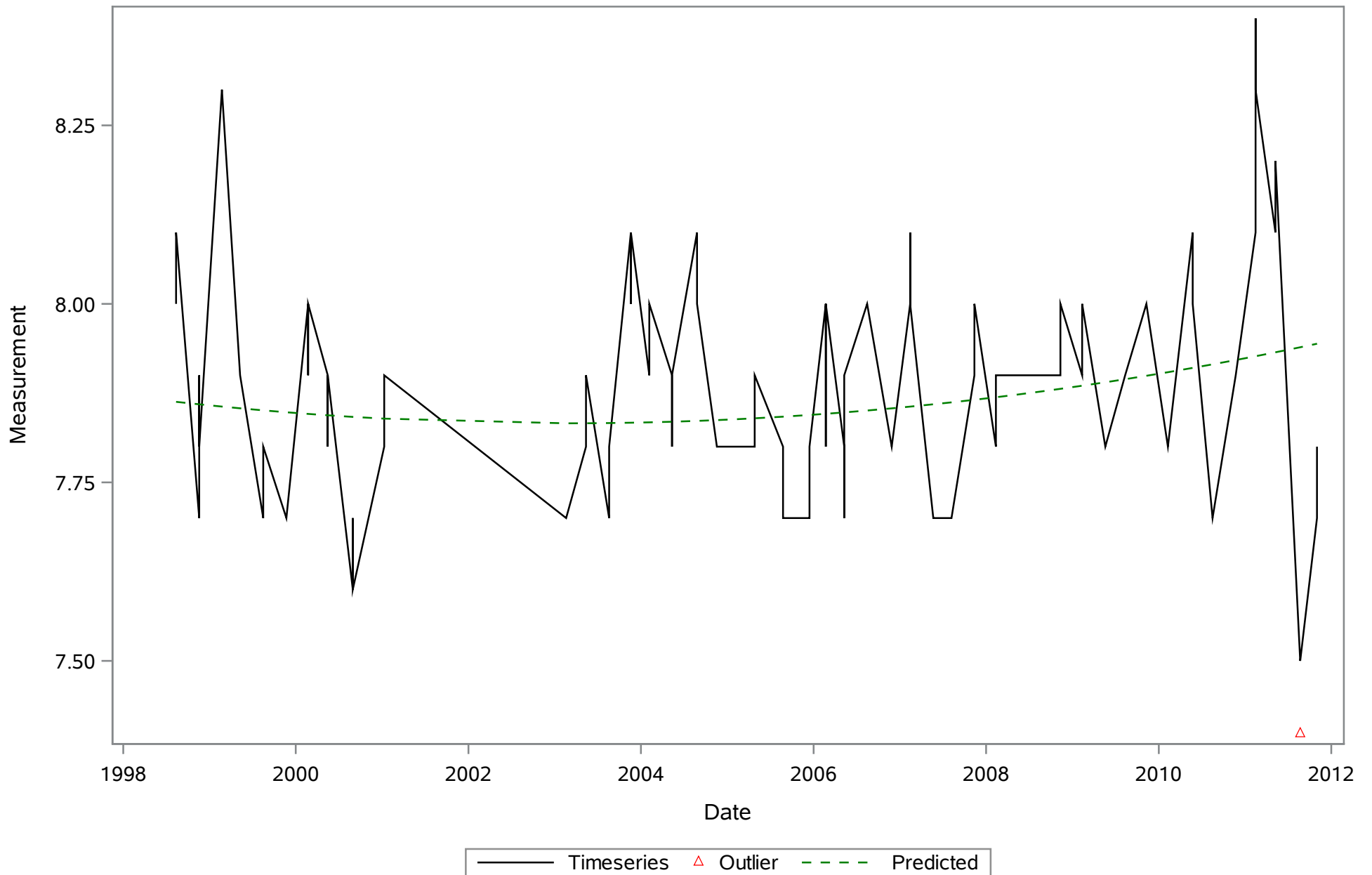
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TP_ugl



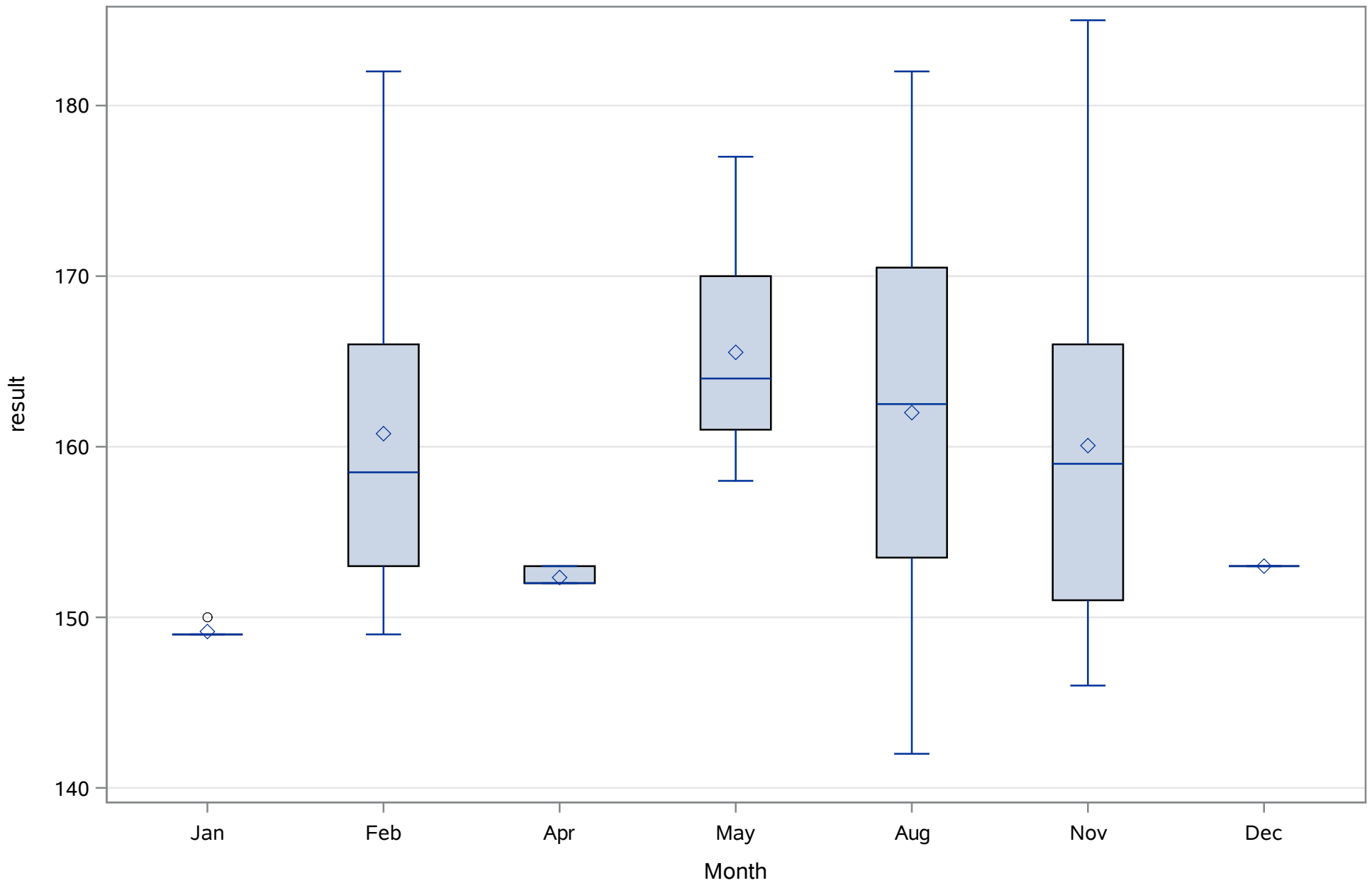
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Field



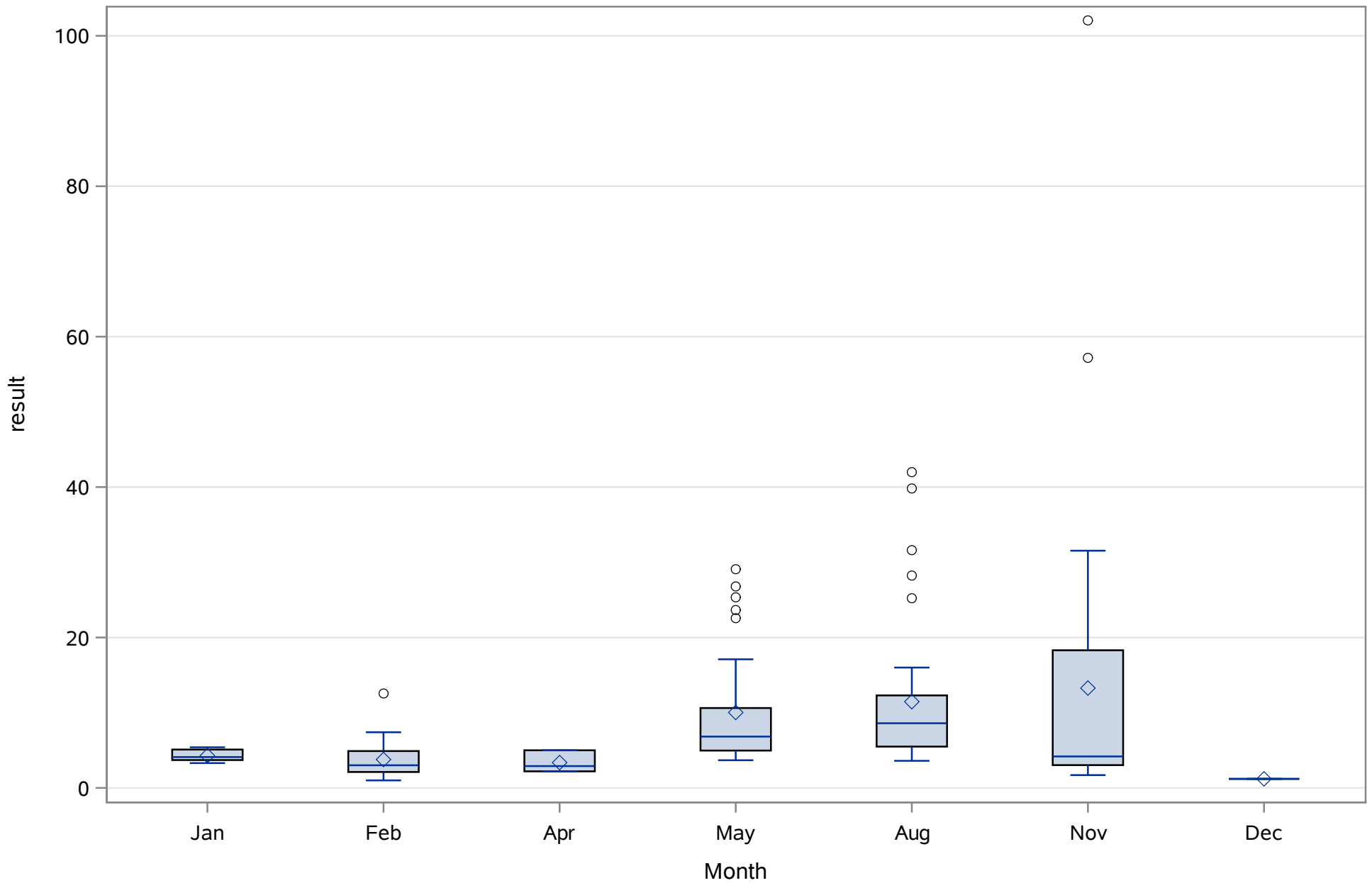
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Lab



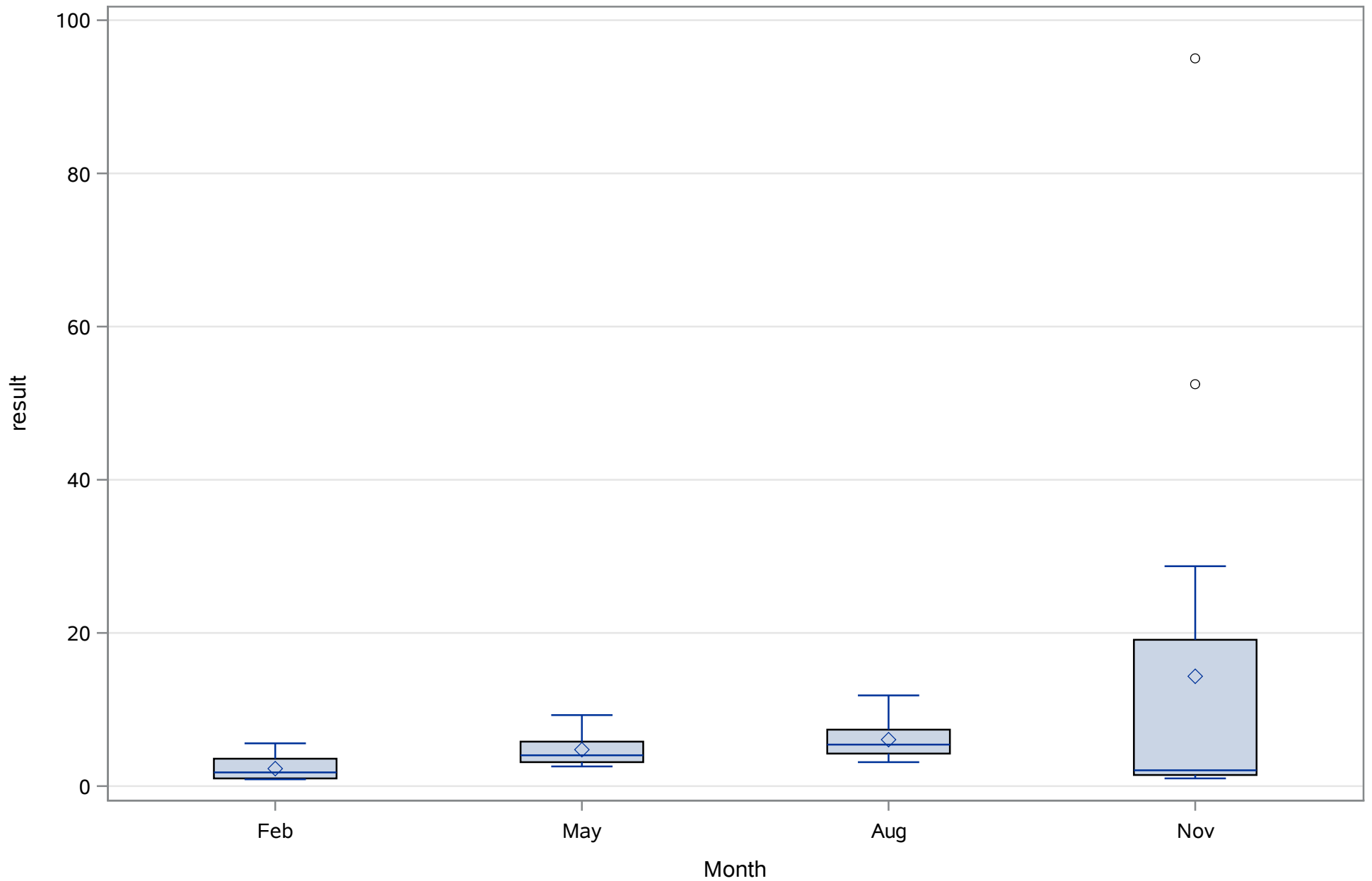
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
ALK_tot_mgL



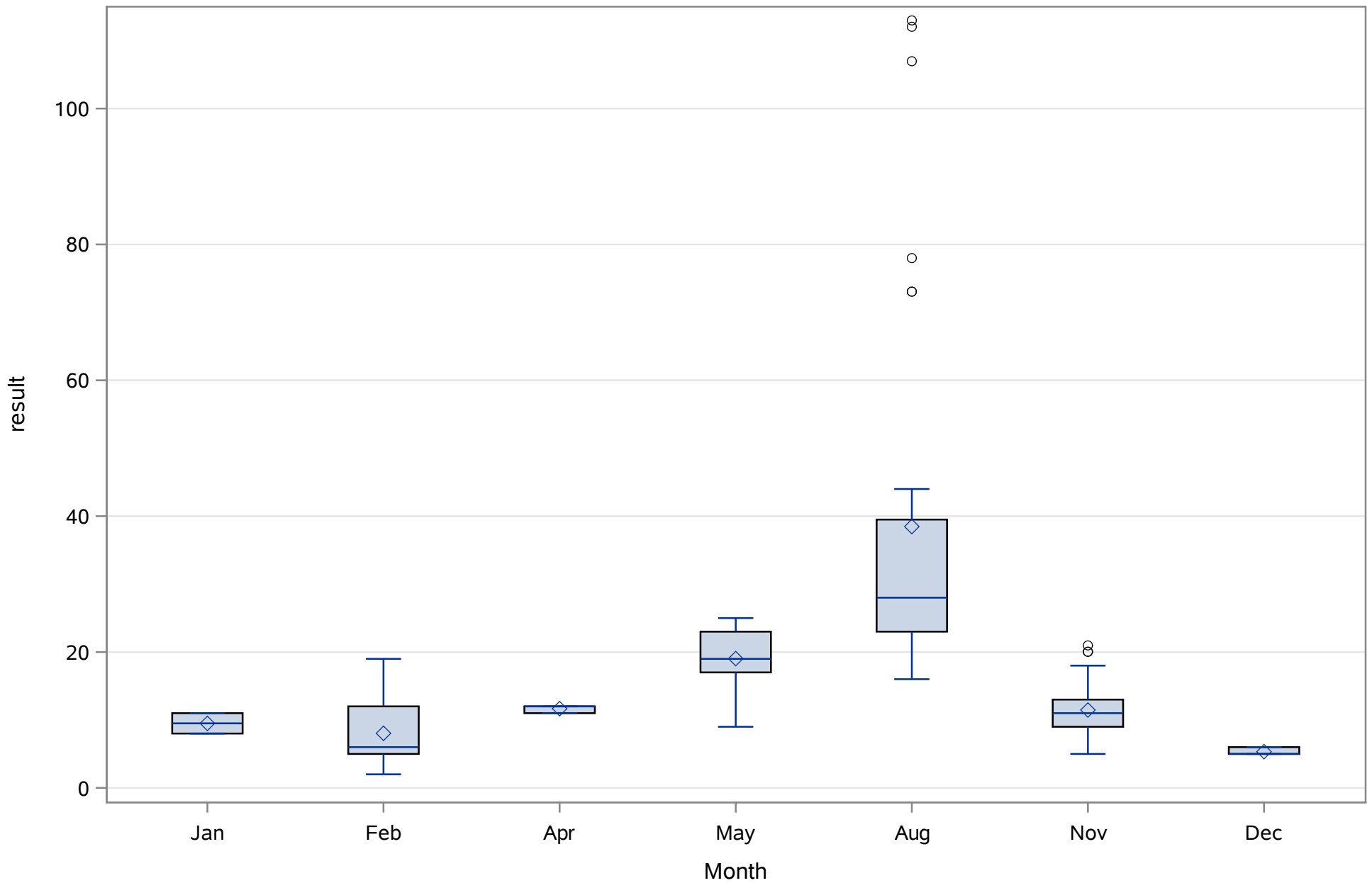
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_Uncor_ugL



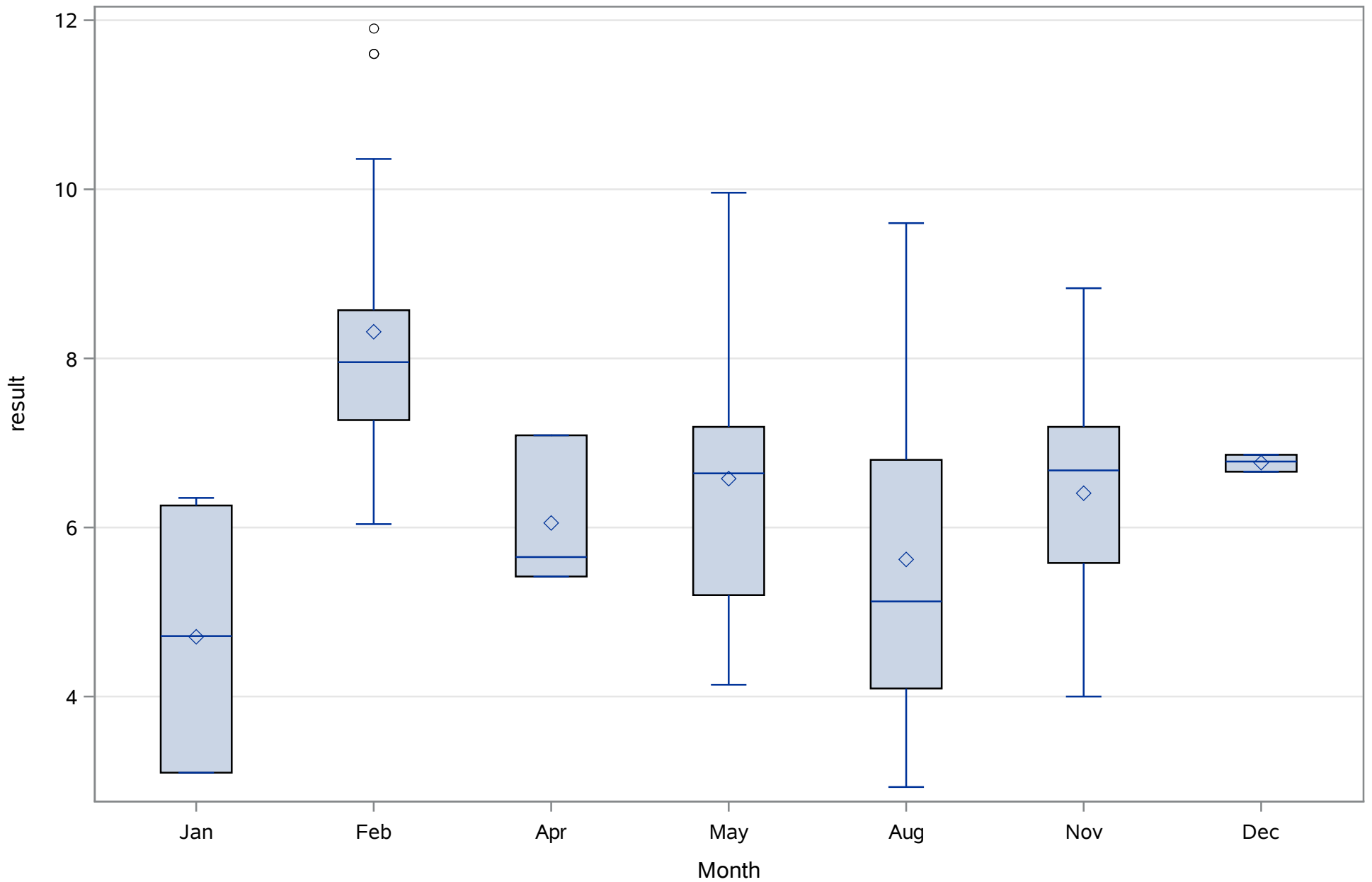
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
CHLA_cor_ugl



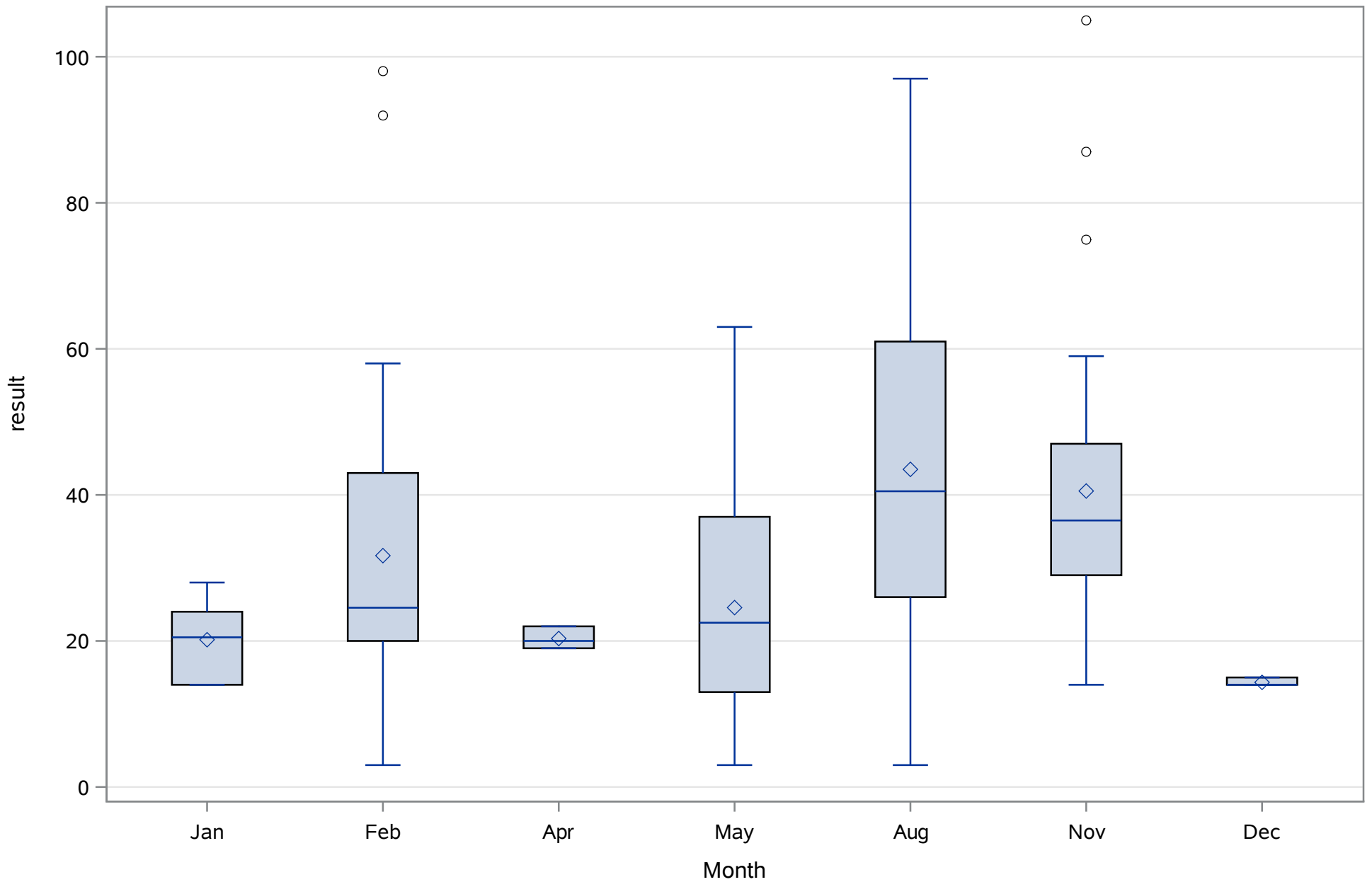
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
COLOR_PtCo



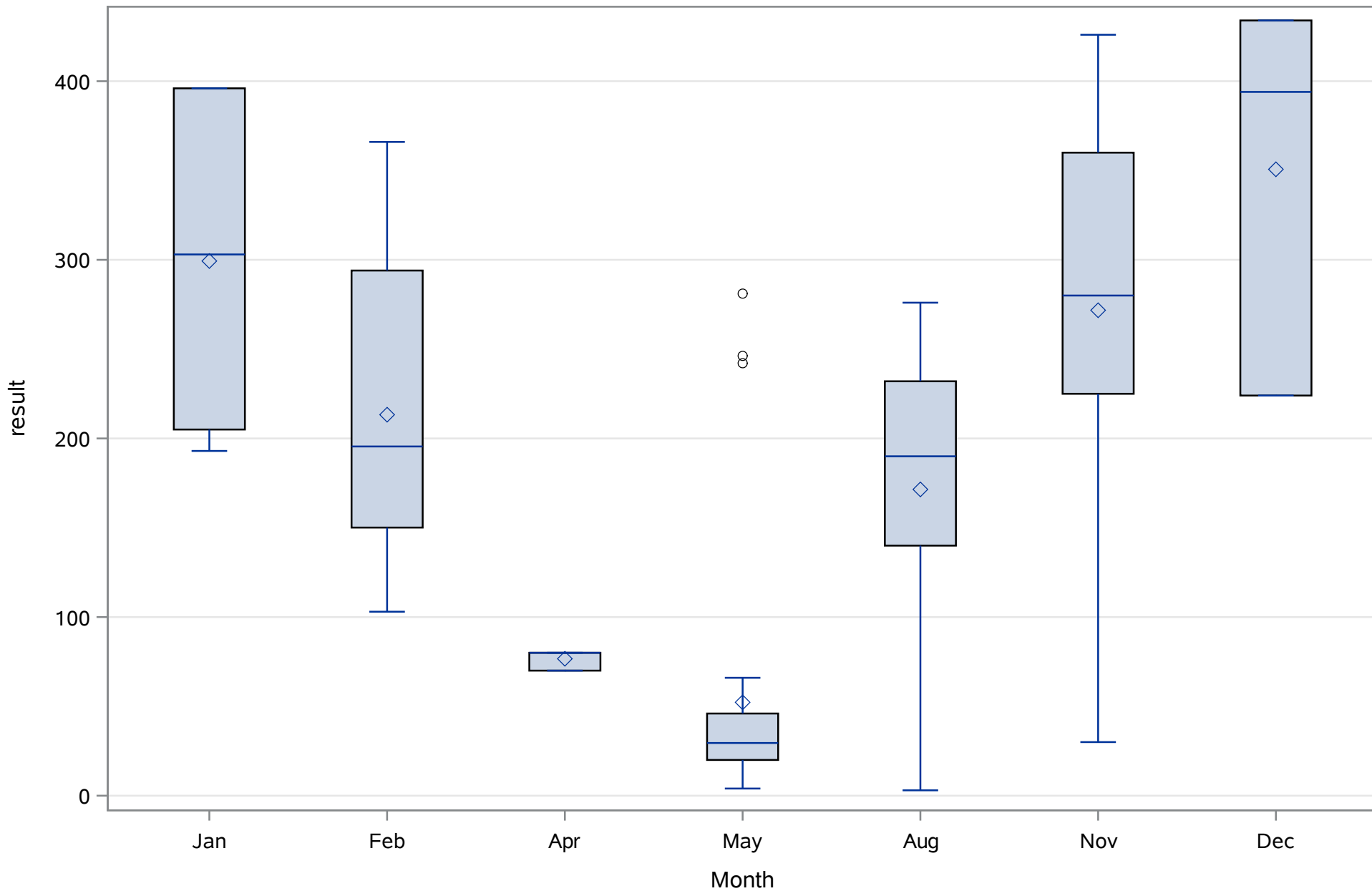
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
DO_mgL



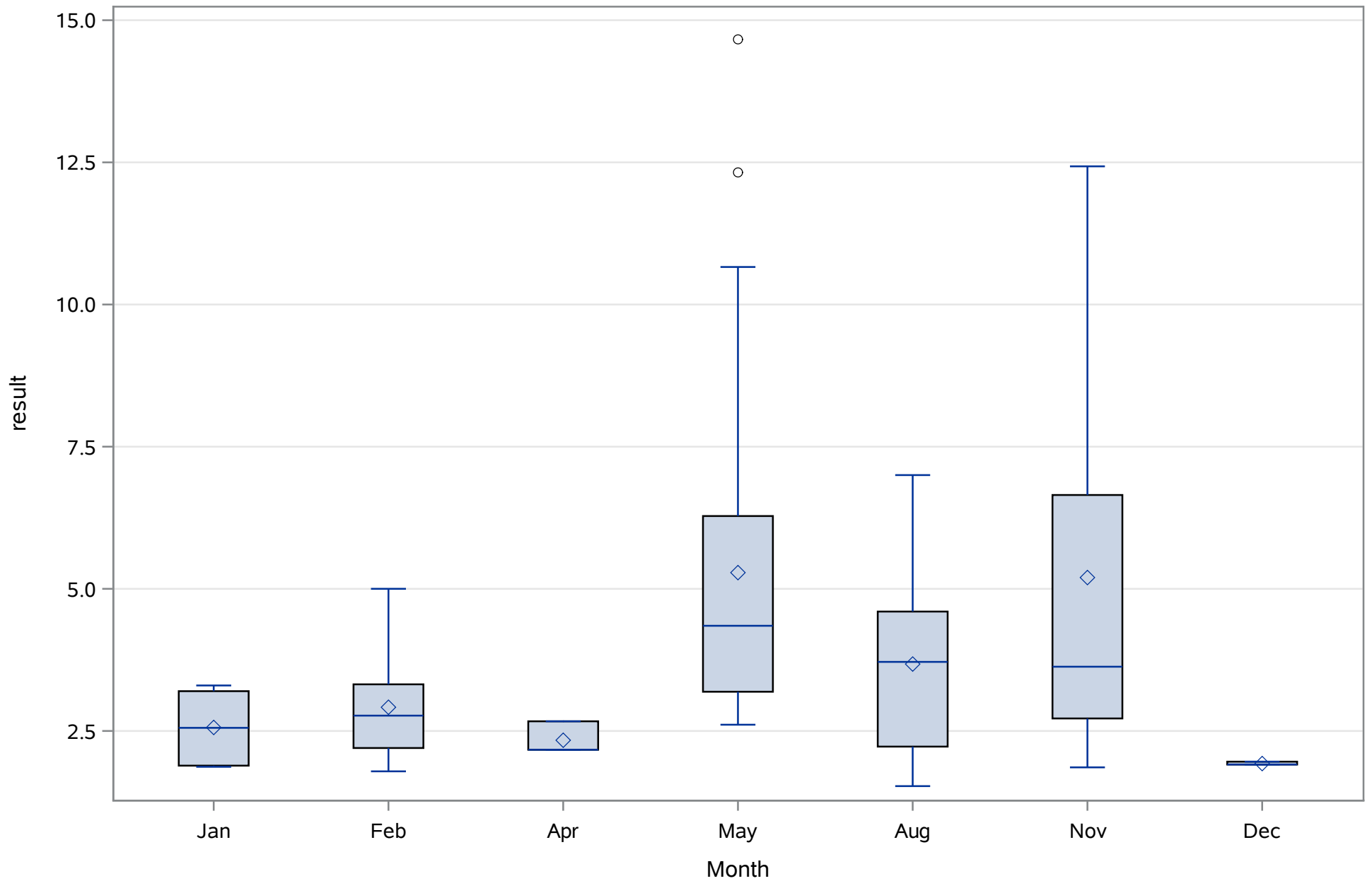
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NH4_ugl



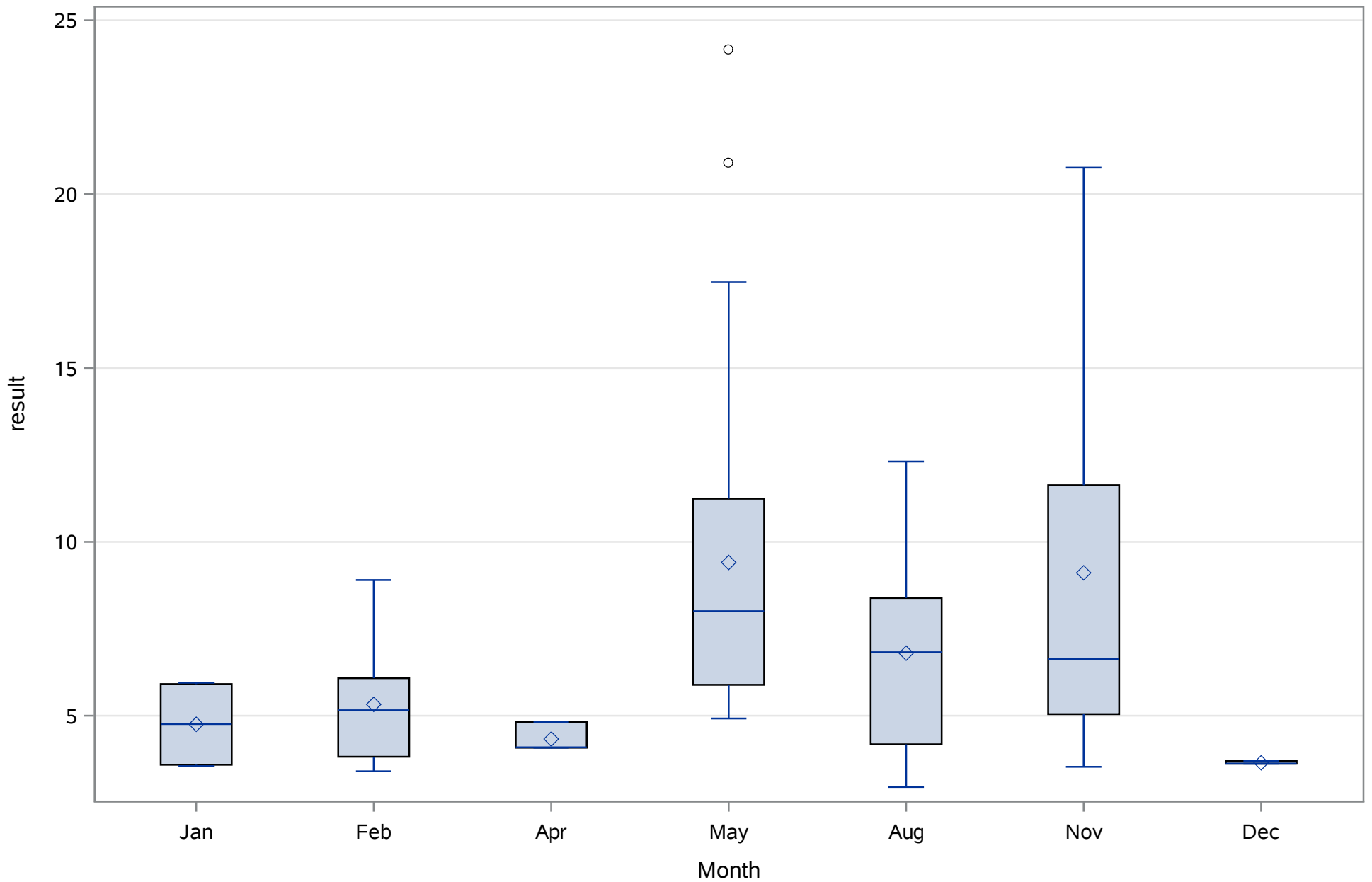
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
NO3_ugL



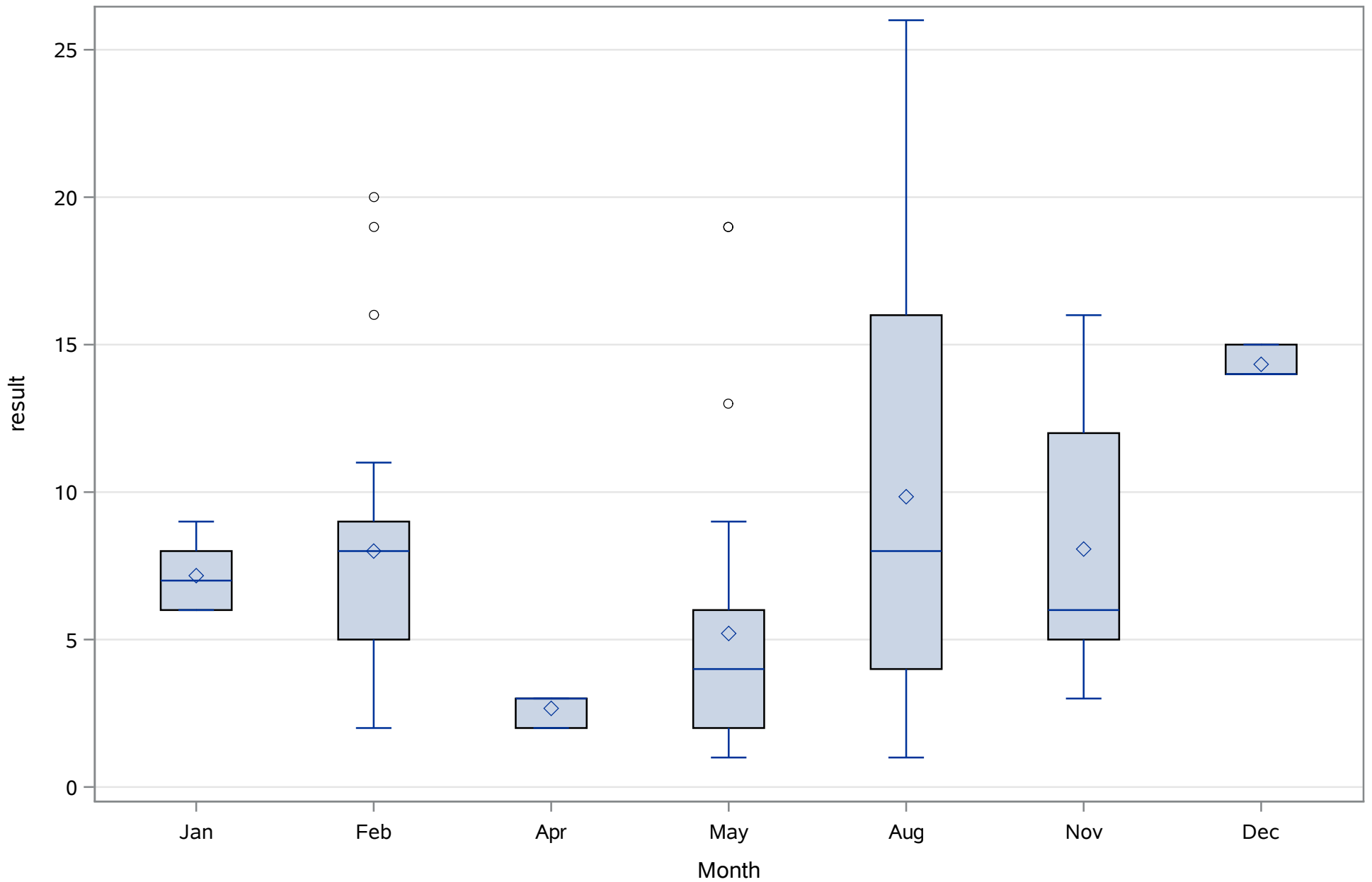
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SAL_Perc



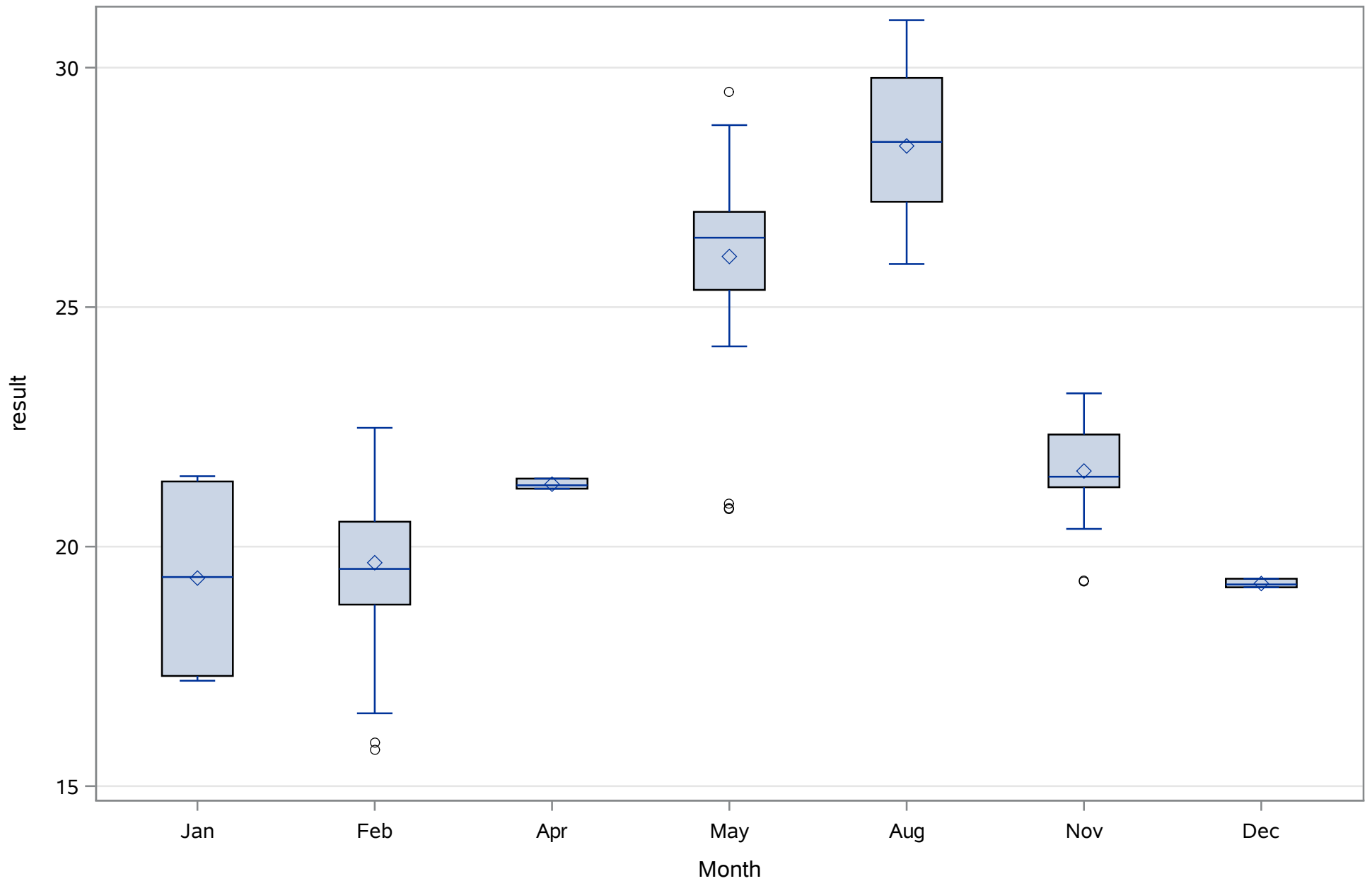
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SPCOND_mS_cm



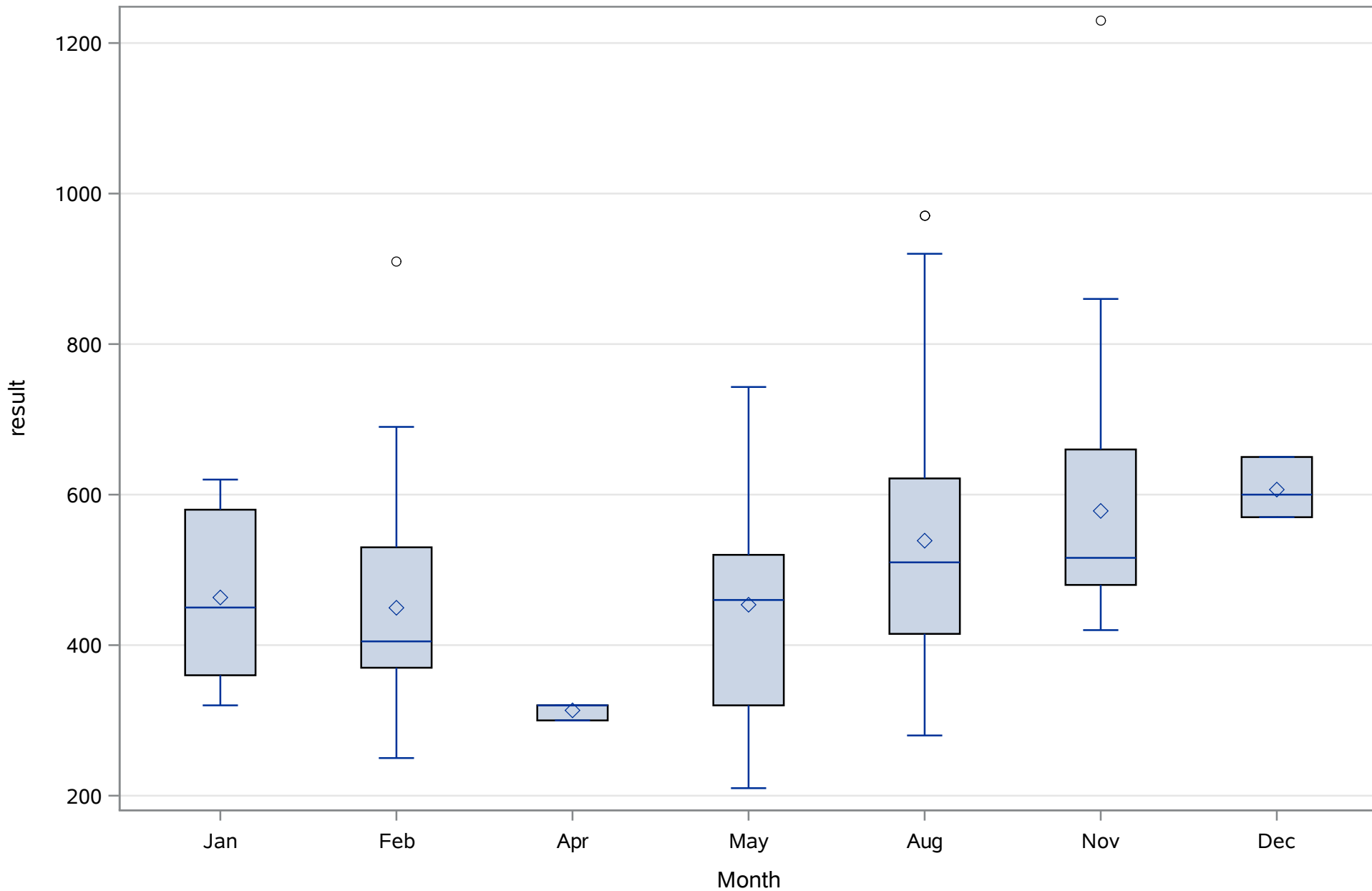
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
SRP_ugL



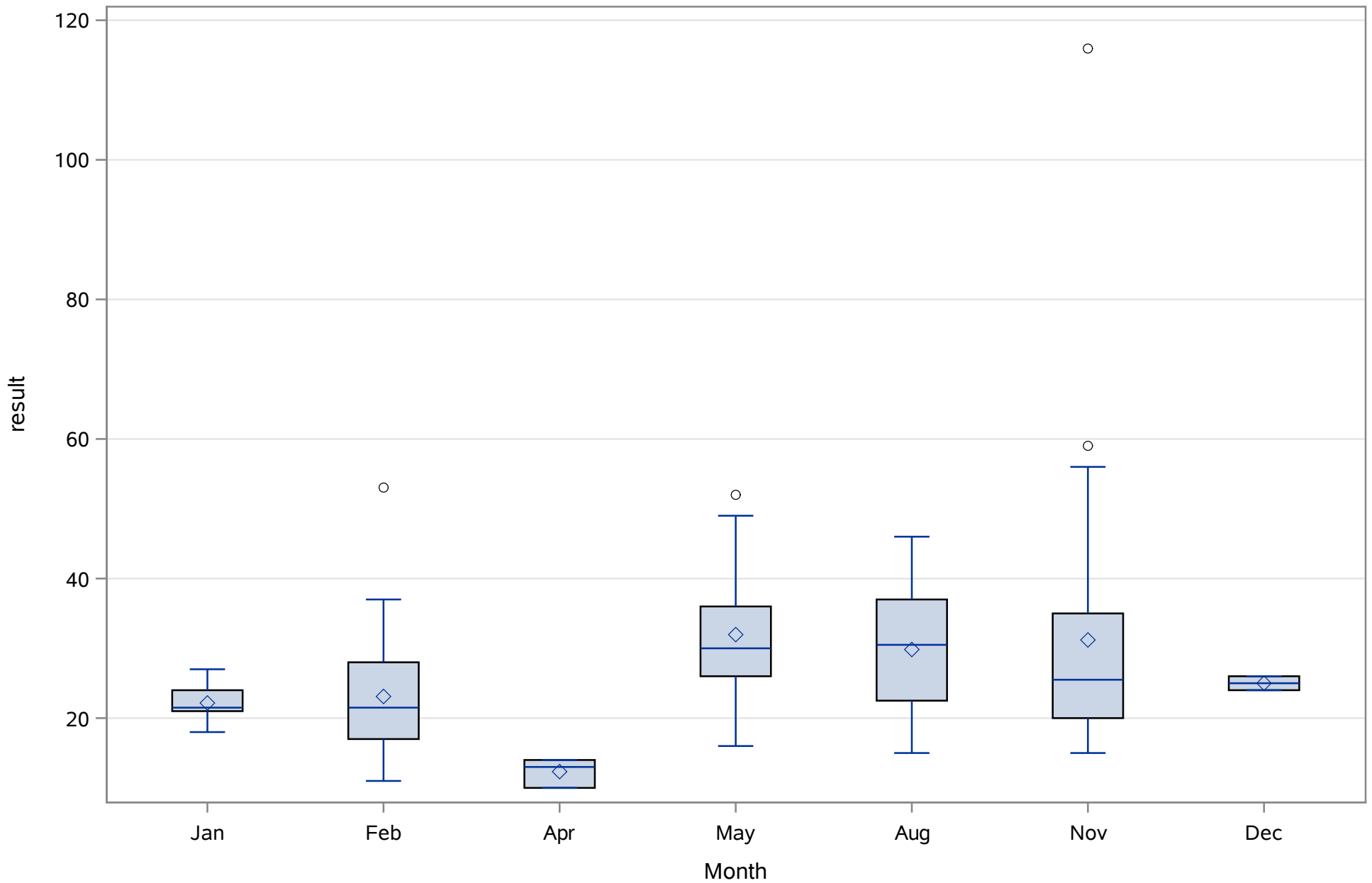
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TEMP_C



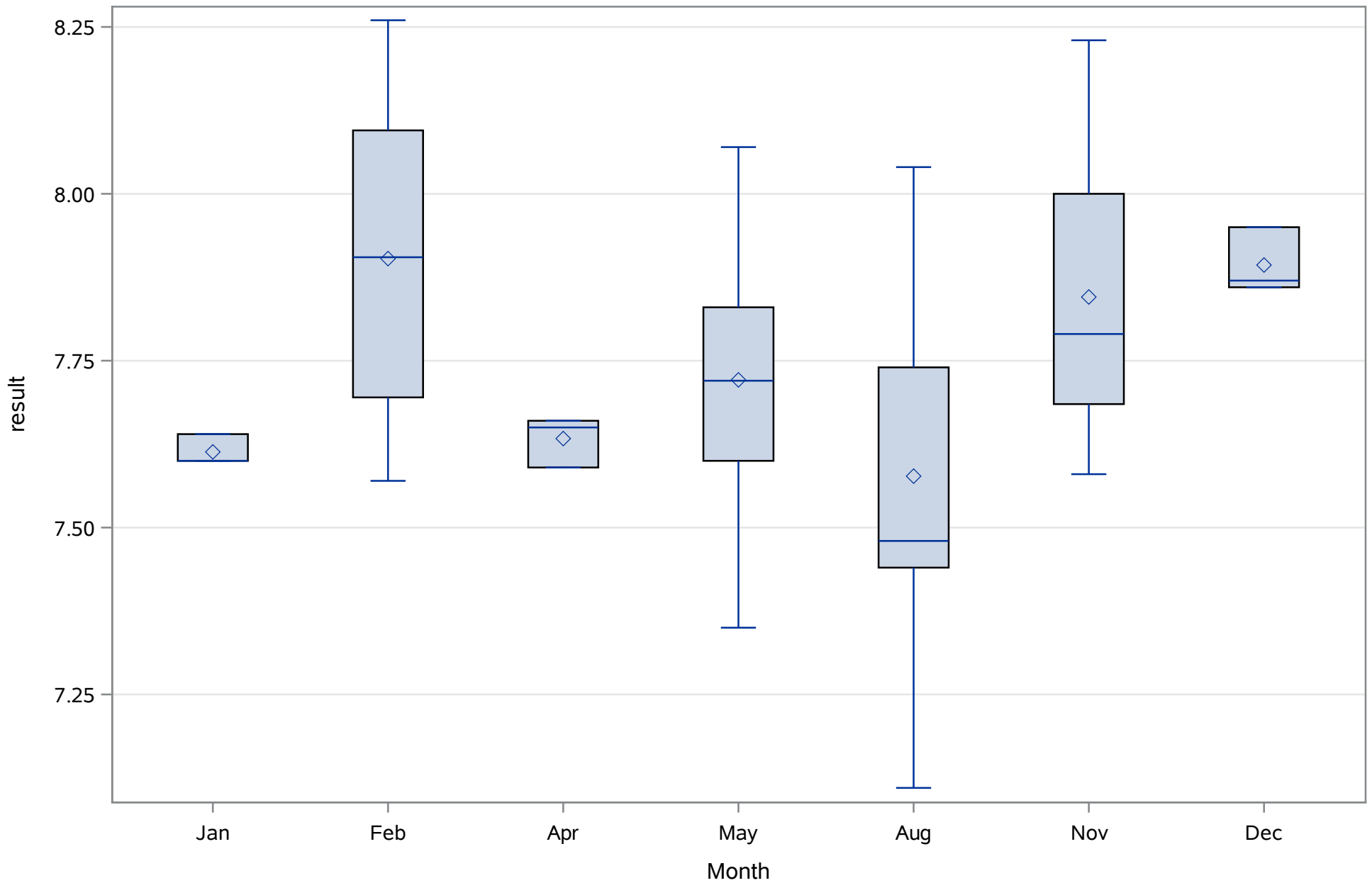
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TN_ugl



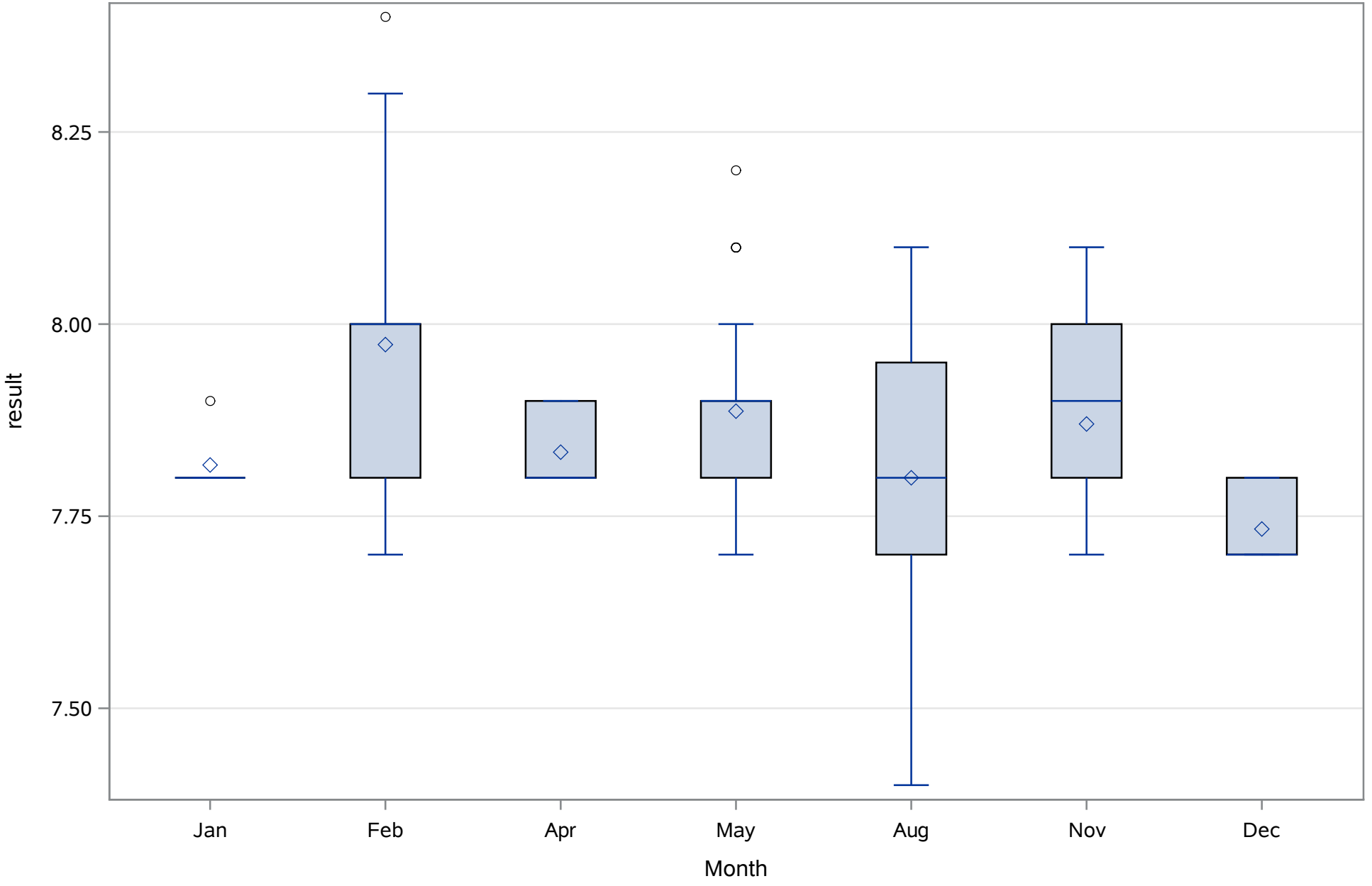
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 10
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	134	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	167.369565	Sum Observations	23097
Std Deviation	11.0526782	Variance	122.161695
Skewness	-0.0496727	Kurtosis	-0.4223669
Uncorrected SS	3882471	Corrected SS	16736.1522
Coeff Variation	6.60375628	Std Error Mean	0.94086645

Basic Statistical Measures			
Location		Variability	
Mean	167.3696	Std Deviation	11.05268
Median	168.0000	Variance	122.16169
Mode	166.0000	Range	49.00000
		Interquartile Range	15.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	177.8888	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	192
99%	192
95%	186
90%	182
75% Q3	174
50% Median	168
25% Q1	159
10%	152
5%	149
1%	143
0% Min	143

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
ALK_tot_mgL

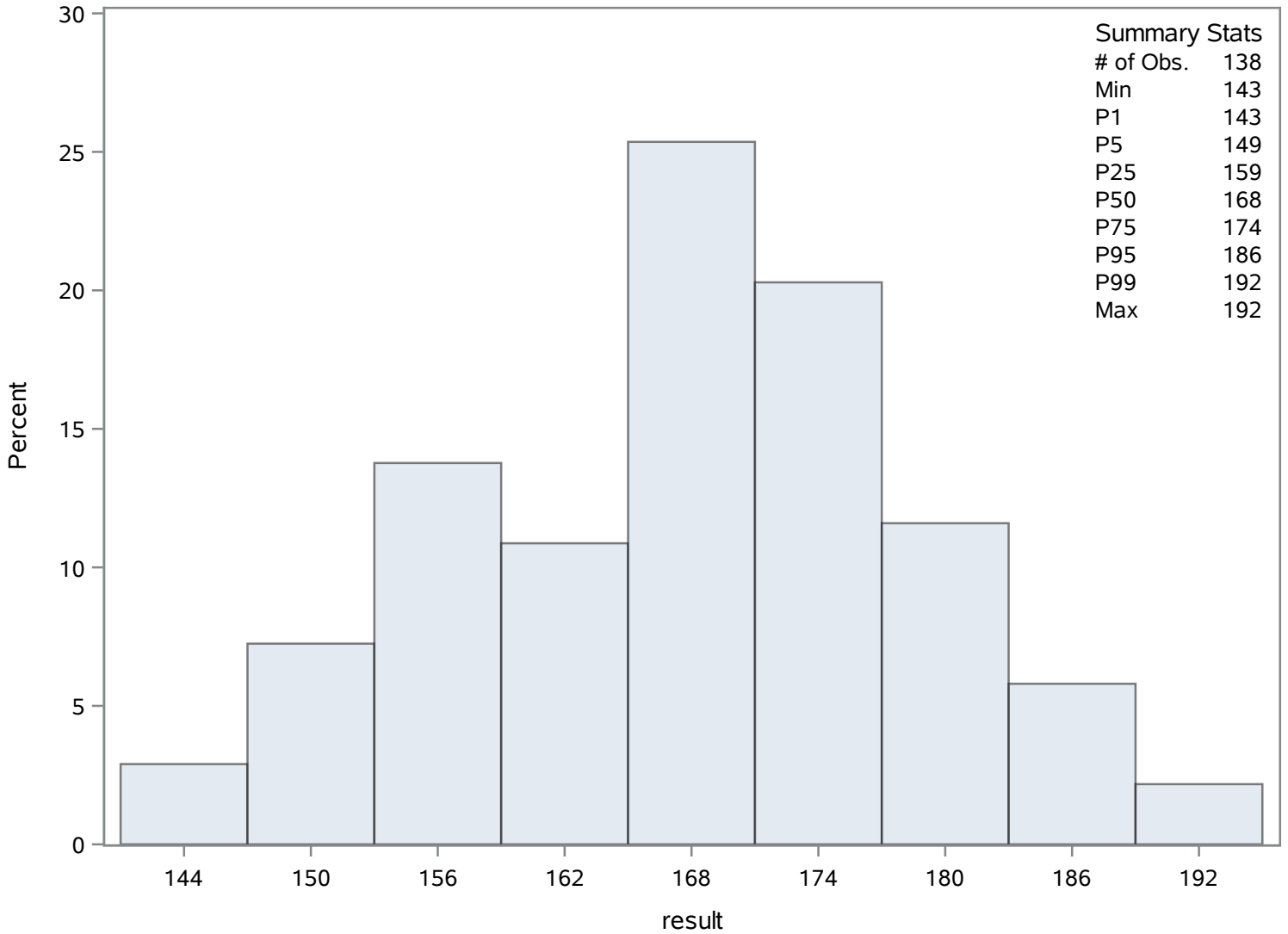
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
143	135	188	98
143	134	188	99
143	133	192	127
146	41	192	128
148	42	192	129

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	5.85443389	Sum Observations	807.911877
Std Deviation	4.66832546	Variance	21.7932626
Skewness	1.98754354	Kurtosis	4.36782281
Uncorrected SS	7715.54366	Corrected SS	2985.67698
Coeff Variation	79.7399979	Std Error Mean	0.39739425

Basic Statistical Measures			
Location		Variability	
Mean	5.854434	Std Deviation	4.66833
Median	4.150000	Variance	21.79326
Mode	2.900000	Range	25.14000
		Interquartile Range	3.85747

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.73205	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.20000
99%	23.10000
95%	15.72414
90%	11.60000
75% Q3	6.80000
50% Median	4.15000
25% Q1	2.94253
10%	1.80000
5%	1.40000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

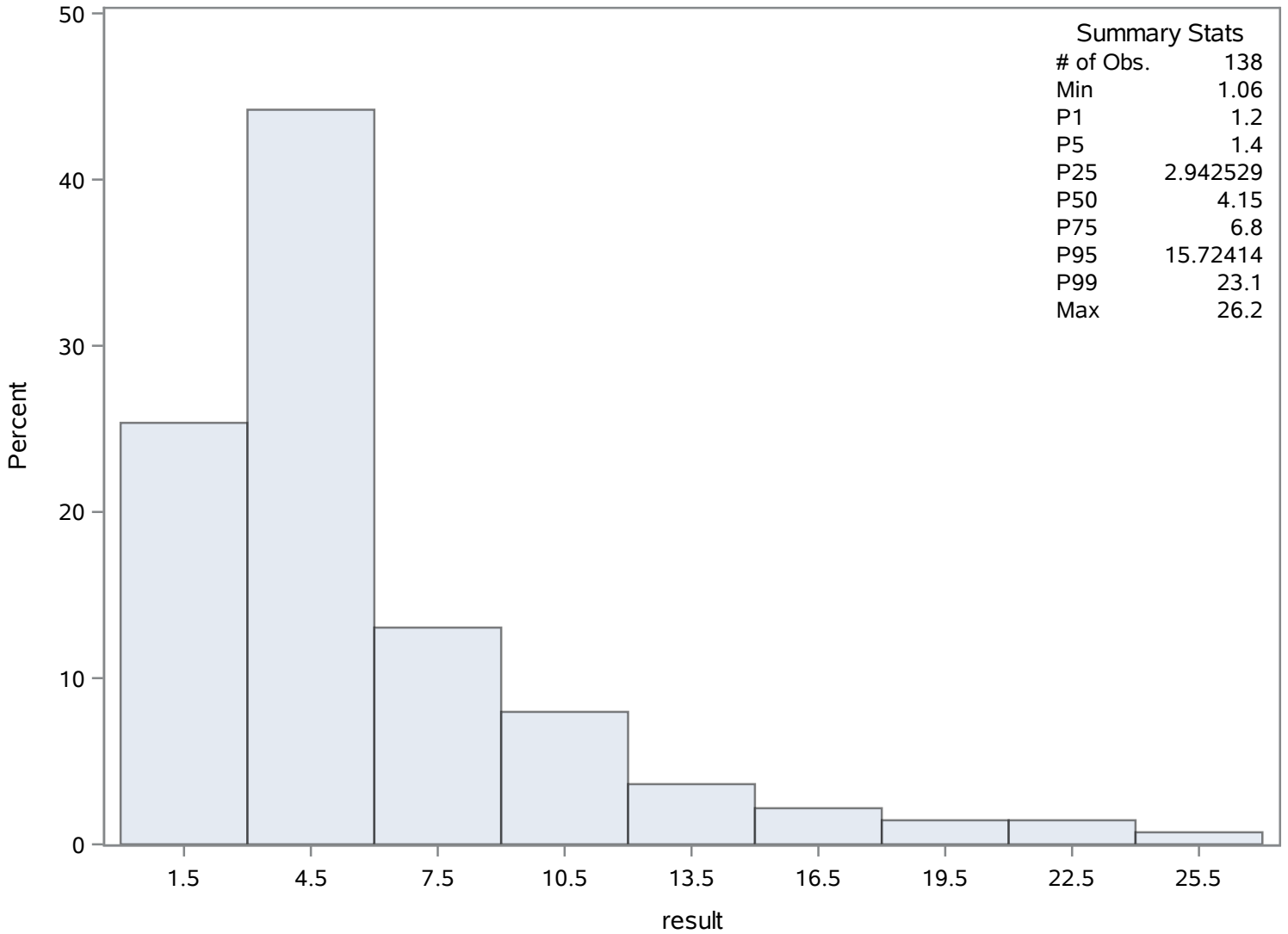
Quantiles (Definition 5)	
Level	Quantile
1%	1.20000
0% Min	1.06000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.06	255	18.000	177
1.20	202	19.908	226
1.24	253	22.200	175
1.29	254	23.100	176
1.30	203	26.200	167

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	4.05052452	Sum Observations	291.637765
Std Deviation	3.31871182	Variance	11.0138481
Skewness	2.06419709	Kurtosis	4.7513958
Uncorrected SS	1963.26913	Corrected SS	781.983216
Coeff Variation	81.9328904	Std Error Mean	0.39111394

Basic Statistical Measures			
Location		Variability	
Mean	4.050525	Std Deviation	3.31871
Median	2.902412	Variance	11.01385
Mode	2.460000	Range	17.37308
		Interquartile Range	2.93742

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.35638	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	17.65239
99%	17.65239
95%	11.95000
90%	7.71000
75% Q3	4.92000
50% Median	2.90241
25% Q1	1.98259
10%	1.23000
5%	0.89000
1%	0.27931
0% Min	0.27931

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_cor_ugl

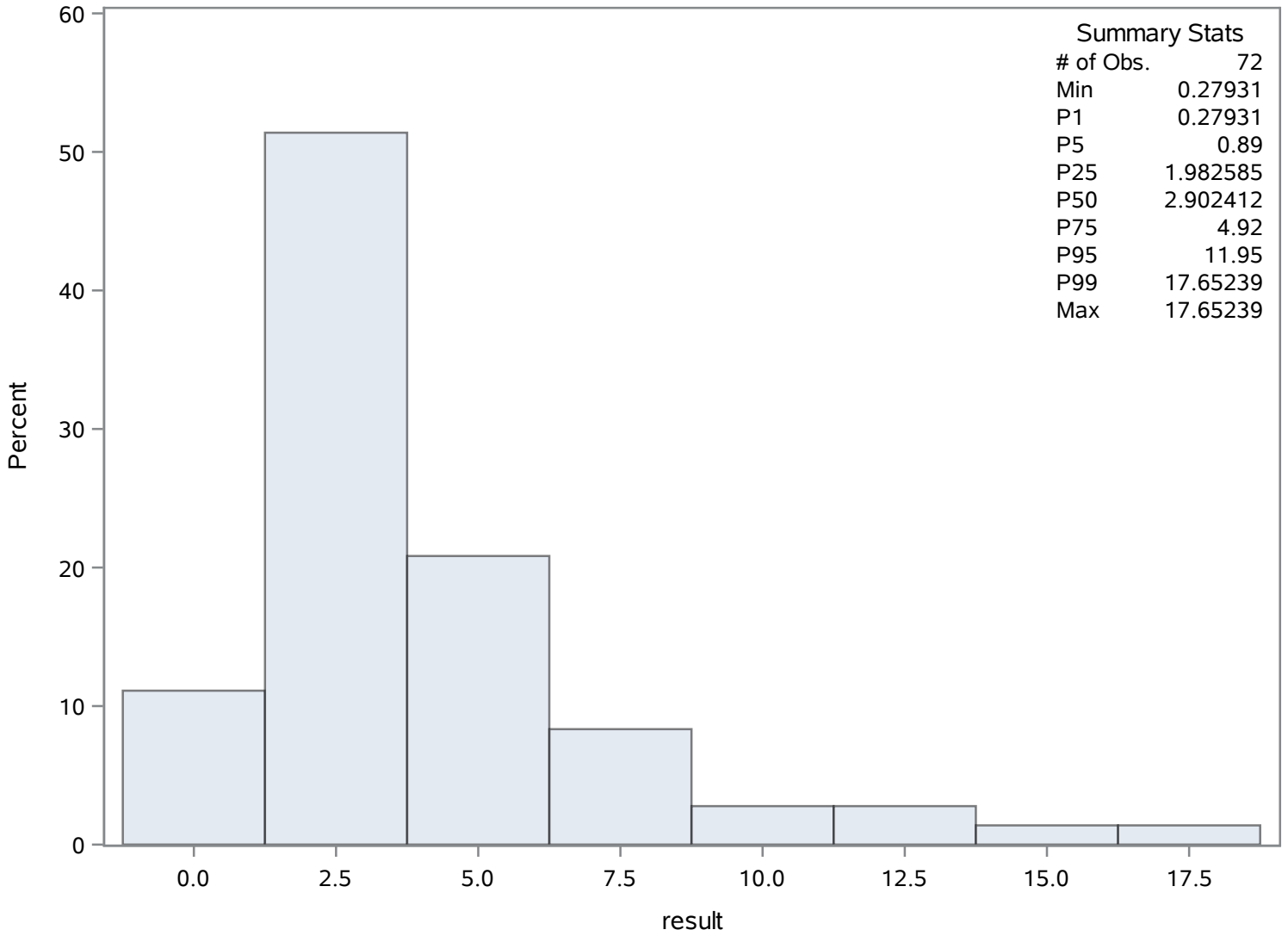
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.27931	310	11.1700	316
0.67000	327	11.9500	321
0.89000	326	13.7421	300
0.89000	325	14.0772	299
1.01000	339	17.6524	298

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	26.2028986	Sum Observations	3616
Std Deviation	16.9249781	Variance	286.454882
Skewness	2.00215247	Kurtosis	4.81529469
Uncorrected SS	133994	Corrected SS	39244.3188
Coeff Variation	64.5920069	Std Error Mean	1.44074981

Basic Statistical Measures			
Location		Variability	
Mean	26.20290	Std Deviation	16.92498
Median	23.50000	Variance	286.45488
Mode	11.00000	Range	81.00000
		Interquartile Range	17.00000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.18699	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	89.0
99%	89.0
95%	58.0
90%	42.0
75% Q3	31.0
50% Median	23.5
25% Q1	14.0
10%	11.0
5%	9.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

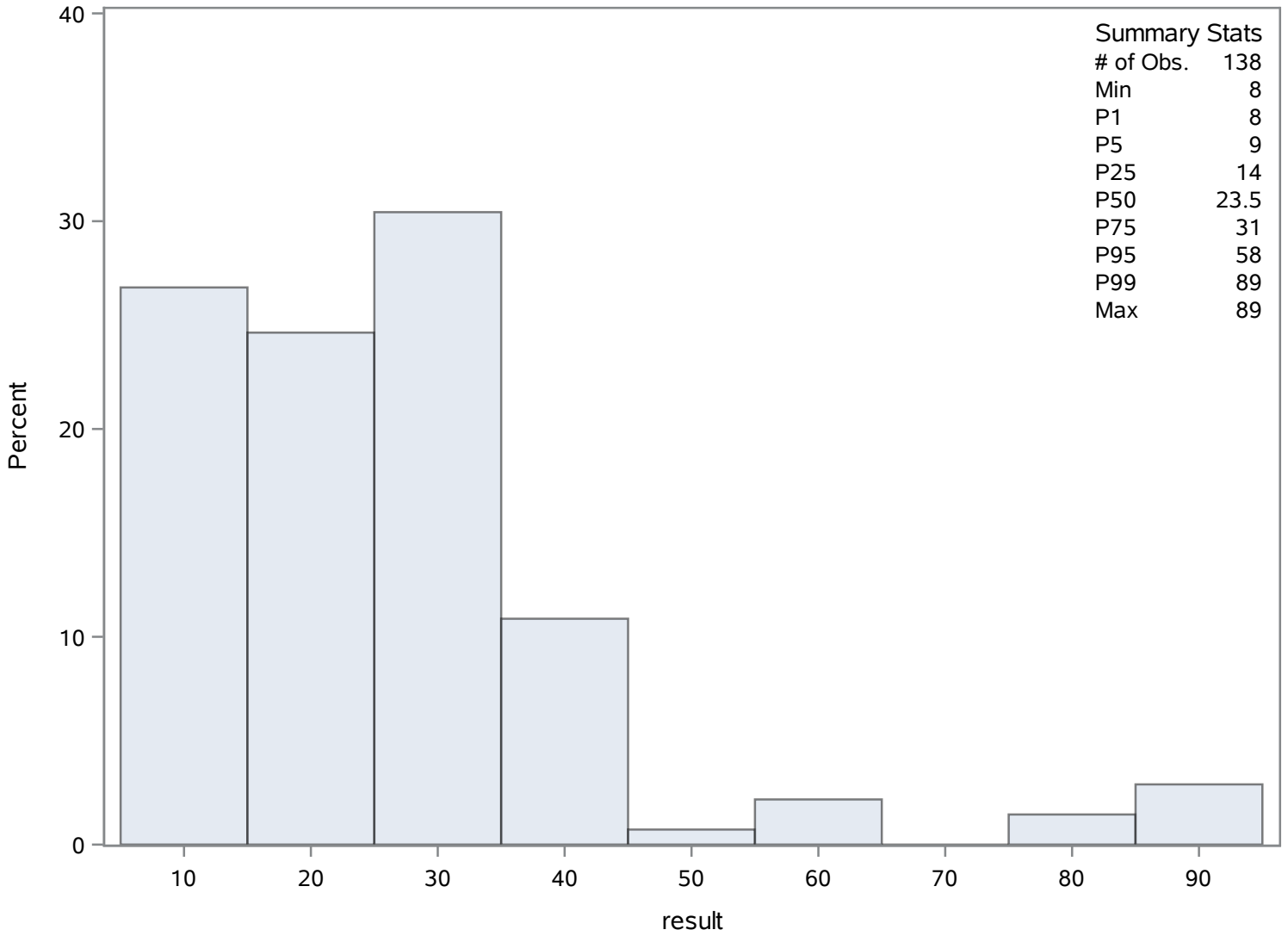
Quantiles (Definition 5)	
Level	Quantile
1%	8.0
0% Min	8.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8	452	83	483
8	369	87	434
8	368	88	482
8	367	89	433
9	453	89	435

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.41630435	Sum Observations	885.45
Std Deviation	1.52370758	Variance	2.32168478
Skewness	-0.2513345	Kurtosis	-0.6062679
Uncorrected SS	5999.3875	Corrected SS	318.070815
Coeff Variation	23.747433	Std Error Mean	0.1297066

Basic Statistical Measures			
Location		Variability	
Mean	6.416304	Std Deviation	1.52371
Median	6.615000	Variance	2.32168
Mode	3.900000	Range	6.64000
		Interquartile Range	2.00000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	49.46783	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.540
99%	9.480
95%	8.700
90%	8.260
75% Q3	7.500
50% Median	6.615
25% Q1	5.500
10%	4.000
5%	3.800

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
DO_mgL

The UNIVARIATE Procedure
Variable: result

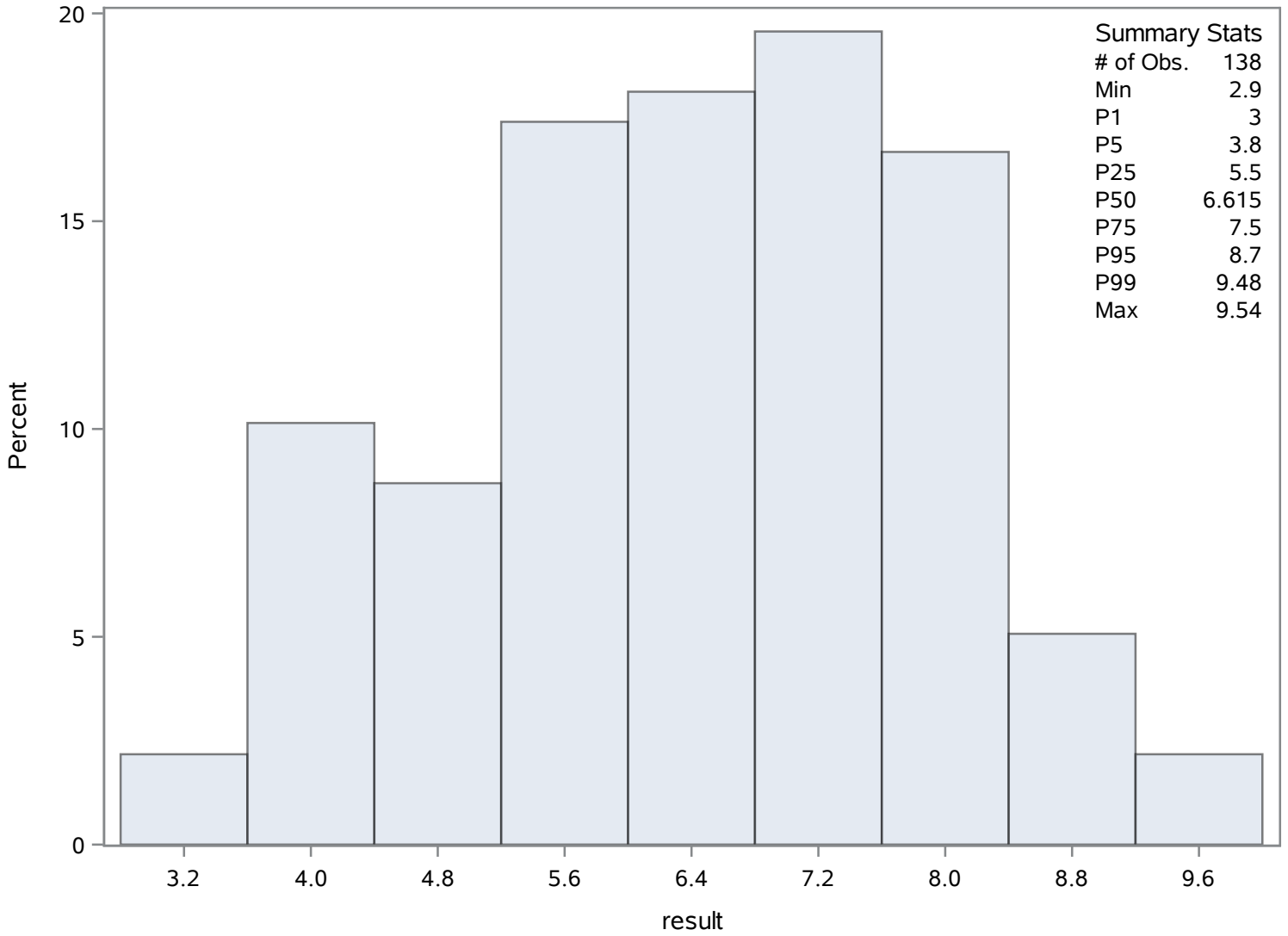
Quantiles (Definition 5)	
Level	Quantile
1%	3.000
0% Min	2.900

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.9	511	9.00	494
3.0	513	9.12	554
3.2	512	9.40	495
3.6	501	9.48	553
3.6	500	9.54	555

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	35.4876812	Sum Observations	4897.3
Std Deviation	20.485307	Variance	419.647803
Skewness	1.30335185	Kurtosis	2.64904706
Uncorrected SS	231285.57	Corrected SS	57491.7491
Coeff Variation	57.7251213	Std Error Mean	1.74382514

Basic Statistical Measures			
Location		Variability	
Mean	35.48768	Std Deviation	20.48531
Median	34.00000	Variance	419.64780
Mode	48.00000	Range	105.00000
		Interquartile Range	28.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.35048	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	107
99%	104
95%	73
90%	56
75% Q3	48
50% Median	34
25% Q1	20
10%	13
5%	11
1%	2
0% Min	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NH4_ugl

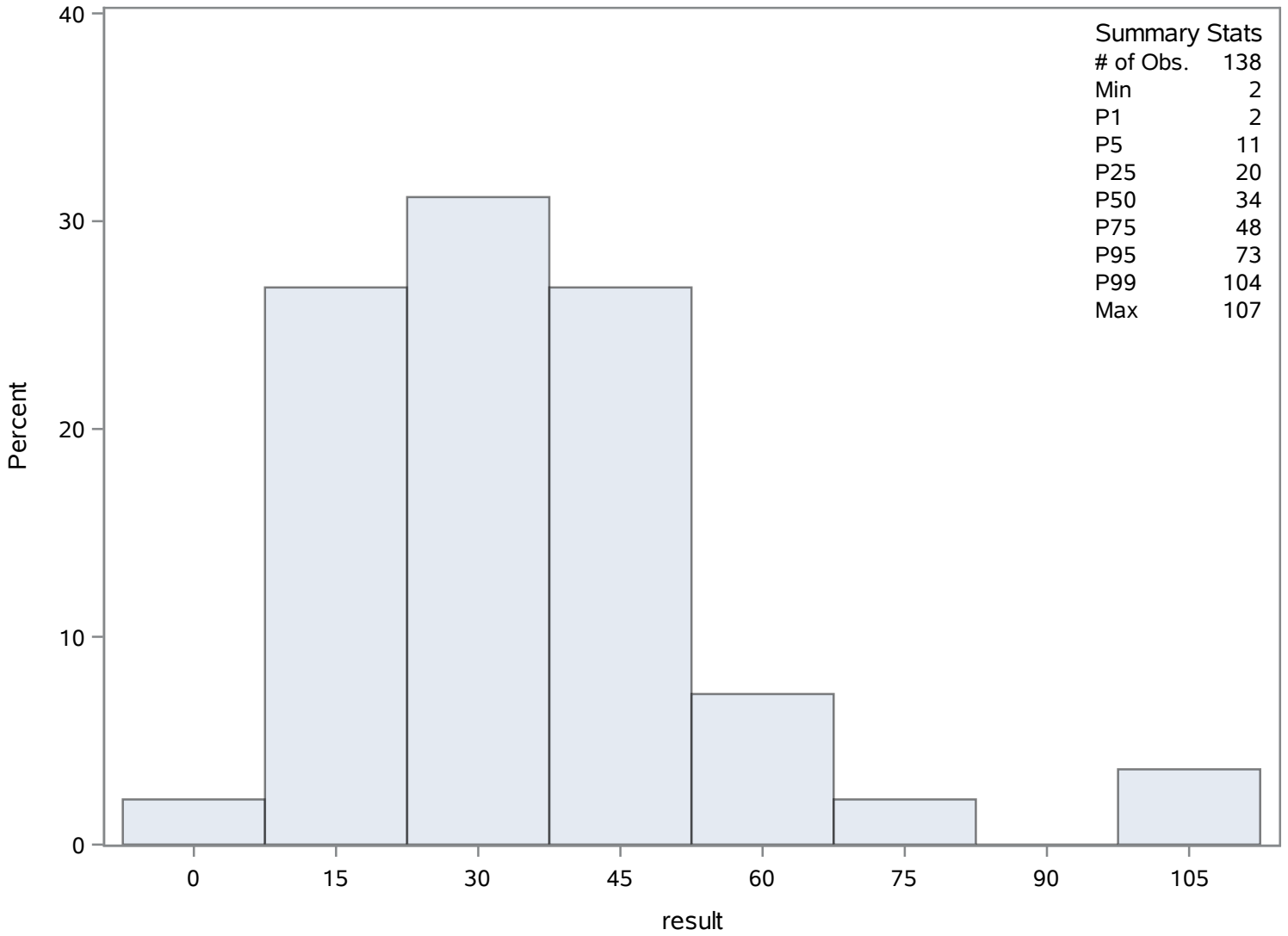
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	694	103	759
2	667	103	761
5	673	104	760
8	642	104	762
9	674	107	758

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	115.425362	Sum Observations	15928.7
Std Deviation	90.4340547	Variance	8178.31826
Skewness	0.61143433	Kurtosis	-0.5232433
Uncorrected SS	2959005.57	Corrected SS	1120429.6
Coeff Variation	78.3485128	Std Error Mean	7.69825797

Basic Statistical Measures			
Location		Variability	
Mean	115.4254	Std Deviation	90.43405
Median	103.0000	Variance	8178
Mode	10.0000	Range	317.00000
		Interquartile Range	153.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.9937	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	322
99%	322
95%	307
90%	260
75% Q3	179
50% Median	103
25% Q1	26
10%	10
5%	9
1%	6
0% Min	5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NO3_ugL

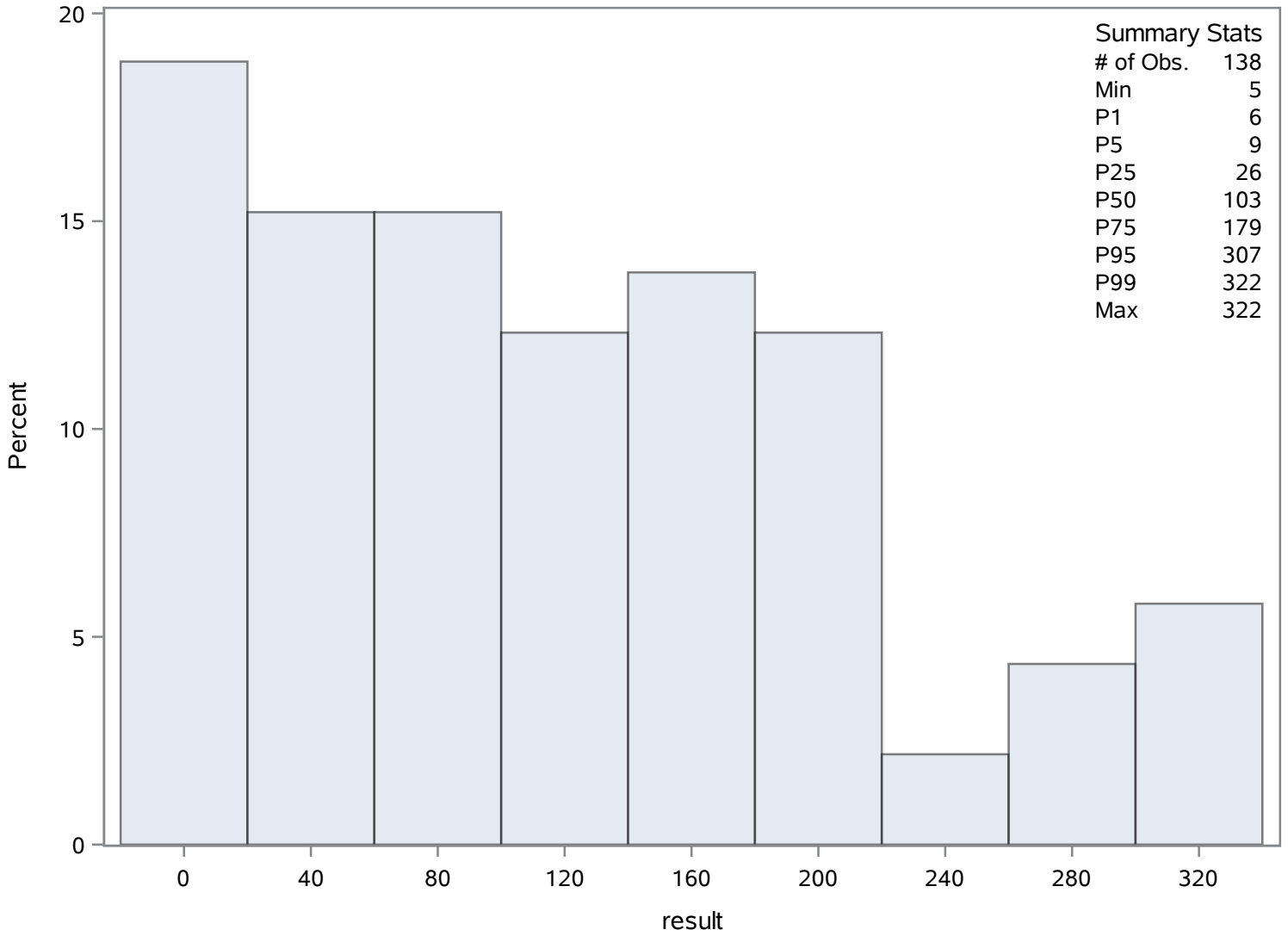
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	889	310	898
6	774	316	815
6	773	316	822
6	763	322	896
7	890	322	899

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.52876812	Sum Observations	900.97
Std Deviation	3.78991679	Variance	14.3634693
Skewness	1.47728511	Kurtosis	2.00712105
Uncorrected SS	7850.0195	Corrected SS	1967.79529
Coeff Variation	58.049493	Std Error Mean	0.32261914

Basic Statistical Measures			
Location		Variability	
Mean	6.528768	Std Deviation	3.78992
Median	5.620000	Variance	14.36347
Mode	5.300000	Range	17.39000
		Interquartile Range	4.09000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.23677	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	19.24
99%	18.85
95%	14.15
90%	12.50
75% Q3	7.69
50% Median	5.62
25% Q1	3.60
10%	2.80
5%	2.60
1%	1.89
0% Min	1.85

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SAL_Perc

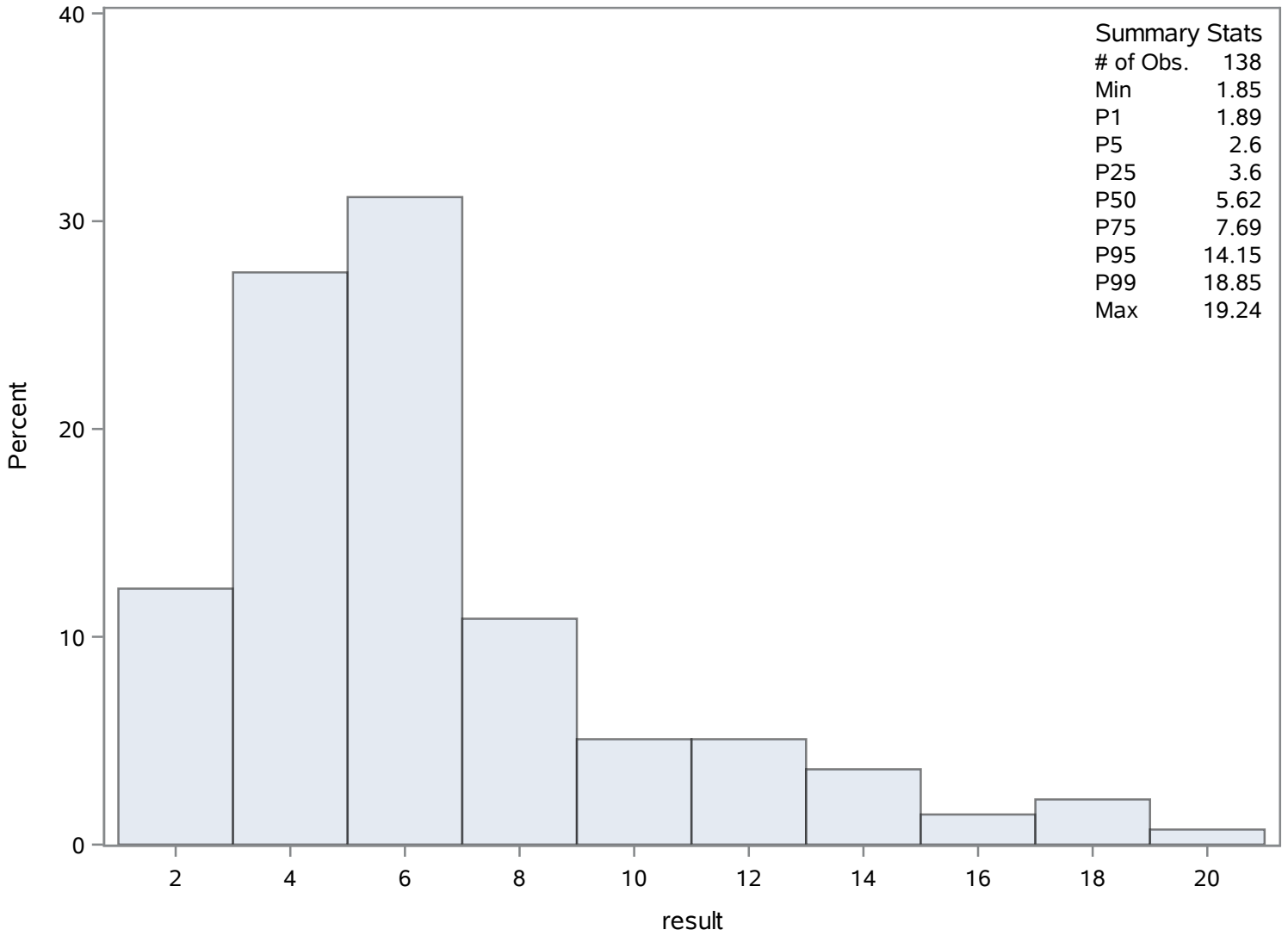
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.85	938	16.98	983
1.89	937	17.21	984
1.98	939	18.61	1013
2.36	966	18.85	1014
2.40	965	19.24	1012

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	11.3367899	Sum Observations	1564.477
Std Deviation	6.08363947	Variance	37.0106691
Skewness	1.33247179	Kurtosis	1.5263902
Uncorrected SS	22806.6087	Corrected SS	5070.46167
Coeff Variation	53.6628053	Std Error Mean	0.51787378

Basic Statistical Measures			
Location		Variability	
Mean	11.33679	Std Deviation	6.08364
Median	9.97000	Variance	37.01067
Mode	6.52000	Range	27.34000
		Interquartile Range	6.79000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	21.89103	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	30.88
99%	30.60
95%	23.40
90%	20.88
75% Q3	13.35
50% Median	9.97
25% Q1	6.56
10%	5.09
5%	4.48

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

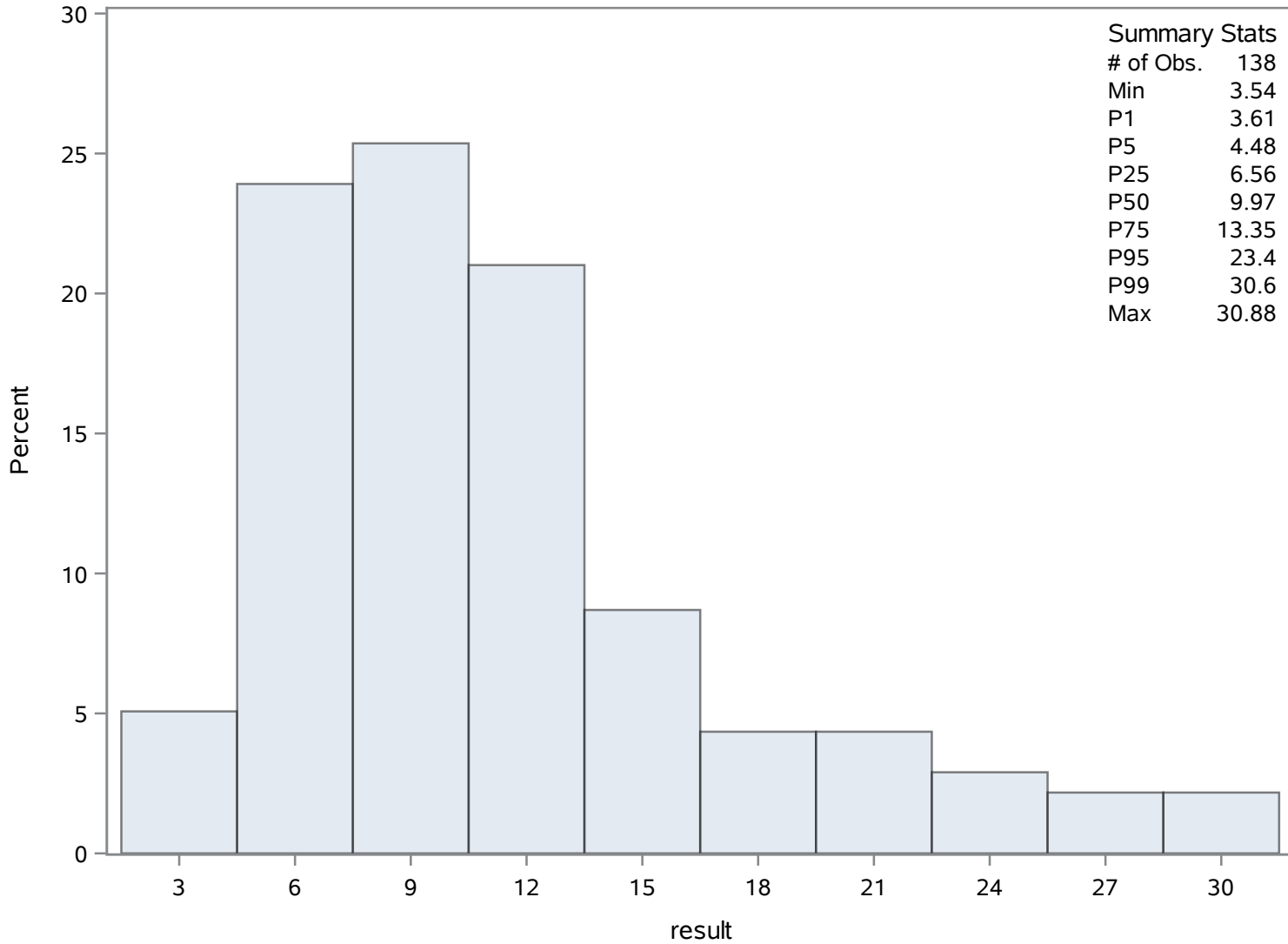
Quantiles (Definition 5)	
Level	Quantile
1%	3.61
0% Min	3.54

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.54	1076	27.64	1121
3.61	1075	28.03	1122
3.78	1077	29.97	1151
4.42	1104	30.60	1152
4.45	1069	30.88	1150

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	134	Sum Weights	134
Mean	6.67910448	Sum Observations	895
Std Deviation	4.86448035	Variance	23.6631691
Skewness	1.2757242	Kurtosis	1.28174647
Uncorrected SS	9125	Corrected SS	3147.20149
Coeff Variation	72.831326	Std Error Mean	0.4202271

Basic Statistical Measures			
Location		Variability	
Mean	6.679104	Std Deviation	4.86448
Median	6.000000	Variance	23.66317
Mode	2.000000	Range	21.00000
		Interquartile Range	6.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.89404	Pr > t 	<.0001
Sign	M	67	Pr >= M 	<.0001
Signed Rank	S	4522.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	22
99%	22
95%	17
90%	14
75% Q3	9
50% Median	6
25% Q1	3
10%	2
5%	2
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SRP_ugL

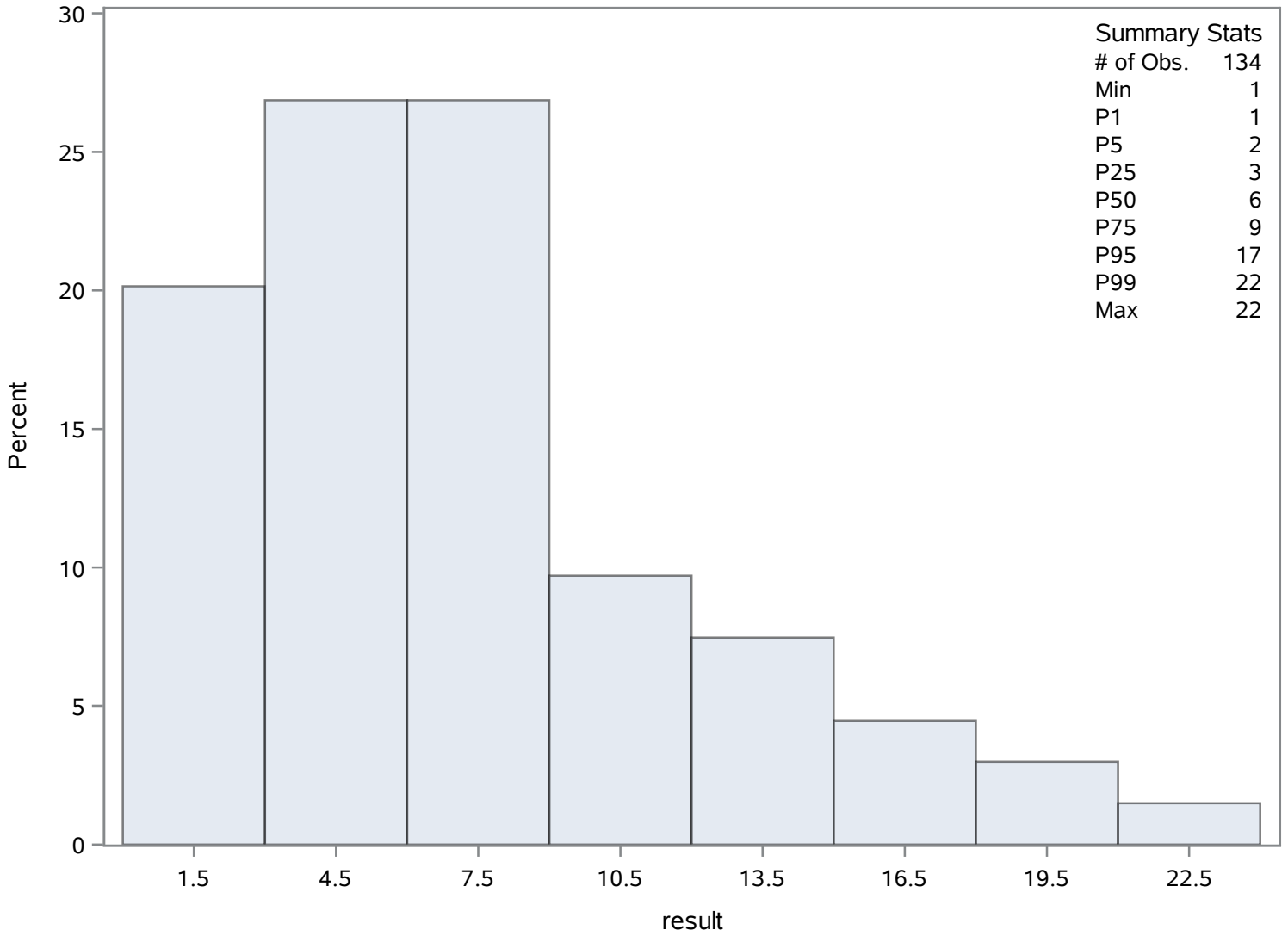
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1240	20	1293
1	1238	20	1294
1	1185	20	1304
1	1184	22	1305
1	1183	22	1306

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.6544928	Sum Observations	3264.32
Std Deviation	4.98357596	Variance	24.8360293
Skewness	0.06277238	Kurtosis	-1.2493664
Uncorrected SS	80618.3698	Corrected SS	3402.53601
Coeff Variation	21.0682005	Std Error Mean	0.42423016

Basic Statistical Measures			
Location		Variability	
Mean	23.65449	Std Deviation	4.98358
Median	22.21500	Variance	24.83603
Mode	15.20000	Range	17.91000
		Interquartile Range	8.97000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	55.75863	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.560
99%	31.990
95%	31.150
90%	30.440
75% Q3	28.460
50% Median	22.215
25% Q1	19.490
10%	17.260
5%	15.580

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TEMP_C

The UNIVARIATE Procedure
Variable: result

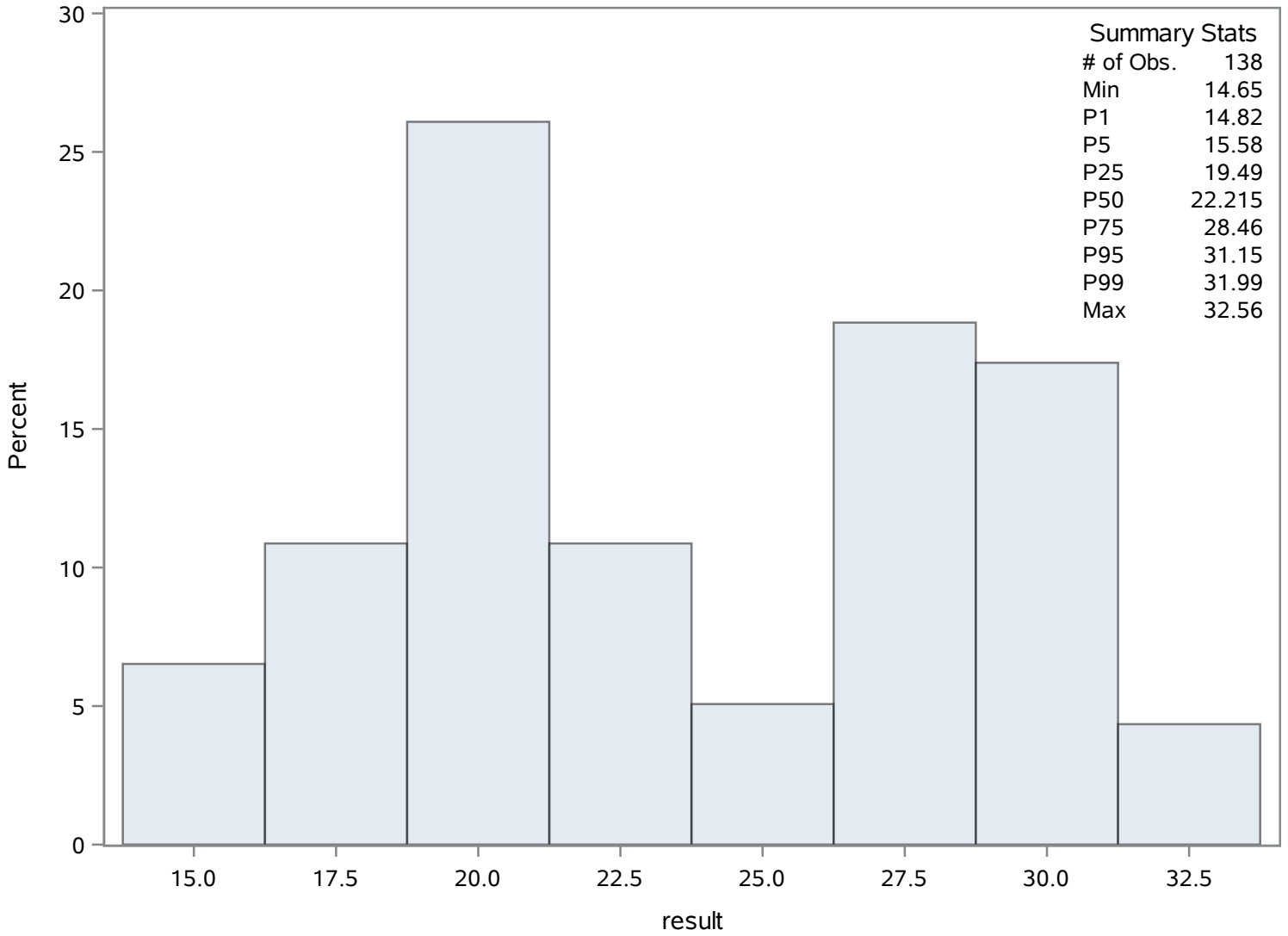
Quantiles (Definition 5)	
Level	Quantile
1%	14.820
0% Min	14.650

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
14.65	1425	31.76	1432
14.82	1426	31.81	1433
14.89	1427	31.86	1397
15.20	1340	31.99	1396
15.20	1339	32.56	1395

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	482.231884	Sum Observations	66548
Std Deviation	133.374906	Variance	17788.8655
Skewness	1.61398573	Kurtosis	4.90928079
Uncorrected SS	34528642	Corrected SS	2437074.58
Coeff Variation	27.6578365	Std Error Mean	11.353626

Basic Statistical Measures			
Location		Variability	
Mean	482.2319	Std Deviation	133.37491
Median	460.0000	Variance	17789
Mode	350.0000	Range	892.00000
		Interquartile Range	150.00000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	42.47382	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1182
99%	850
95%	730
90%	680
75% Q3	540
50% Median	460
25% Q1	390
10%	340
5%	320

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TN_ugl

The UNIVARIATE Procedure
Variable: result

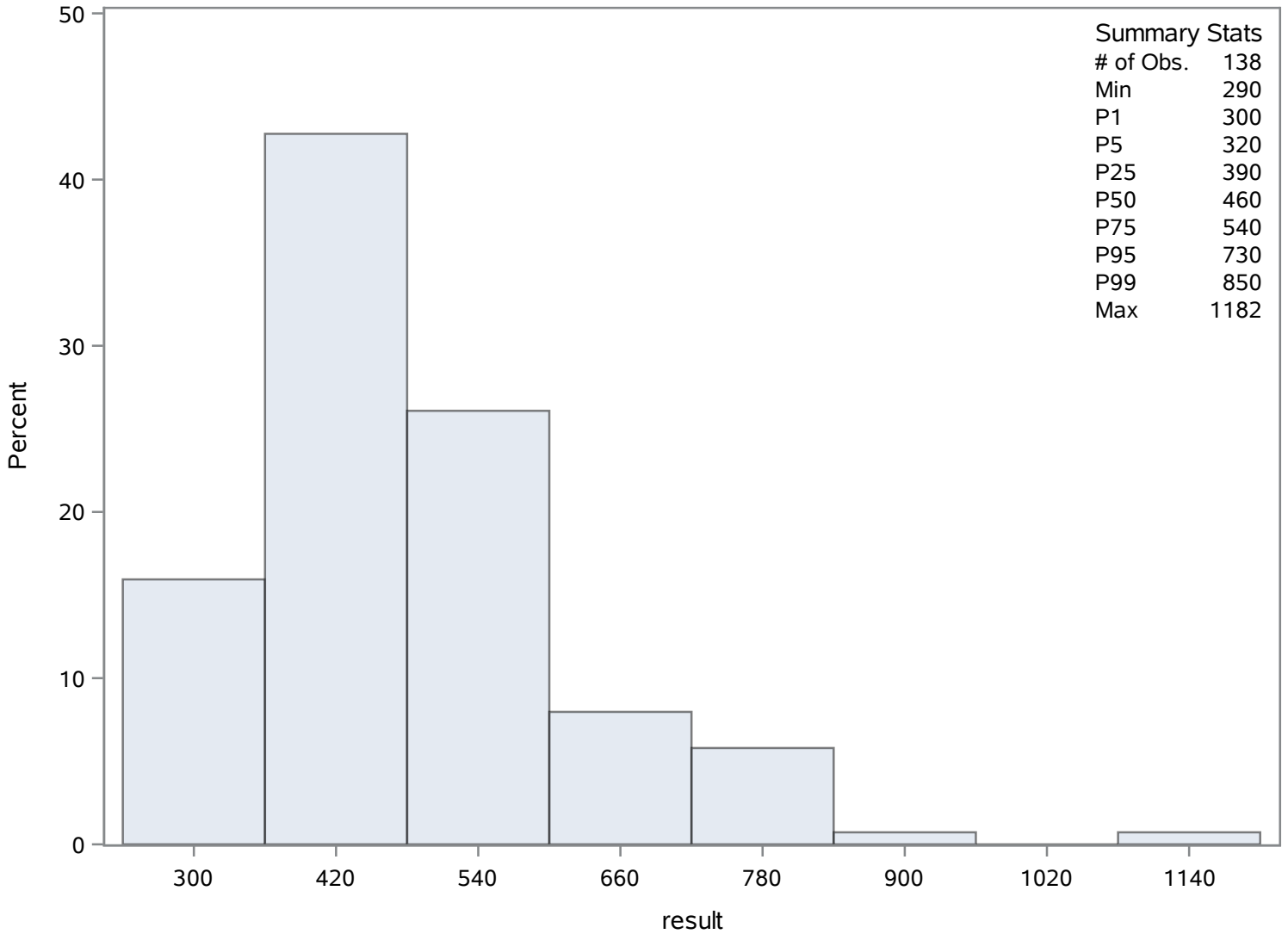
Quantiles (Definition 5)	
Level	Quantile
1%	300
0% Min	290

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
290	1457	770	1533
300	1553	784	1555
300	1516	810	1535
310	1520	850	1584
310	1496	1182	1554

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	25.8985507	Sum Observations	3574
Std Deviation	8.47347933	Variance	71.7998519
Skewness	1.73148623	Kurtosis	5.66553311
Uncorrected SS	102398	Corrected SS	9836.57971
Coeff Variation	32.7179672	Std Error Mean	0.72131046

Basic Statistical Measures			
Location		Variability	
Mean	25.89855	Std Deviation	8.47348
Median	25.00000	Variance	71.79985
Mode	22.00000	Range	58.00000
		Interquartile Range	9.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	35.90486	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	71
99%	54
95%	42
90%	37
75% Q3	29
50% Median	25
25% Q1	20
10%	17
5%	16
1%	13
0% Min	13

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TP_ugl

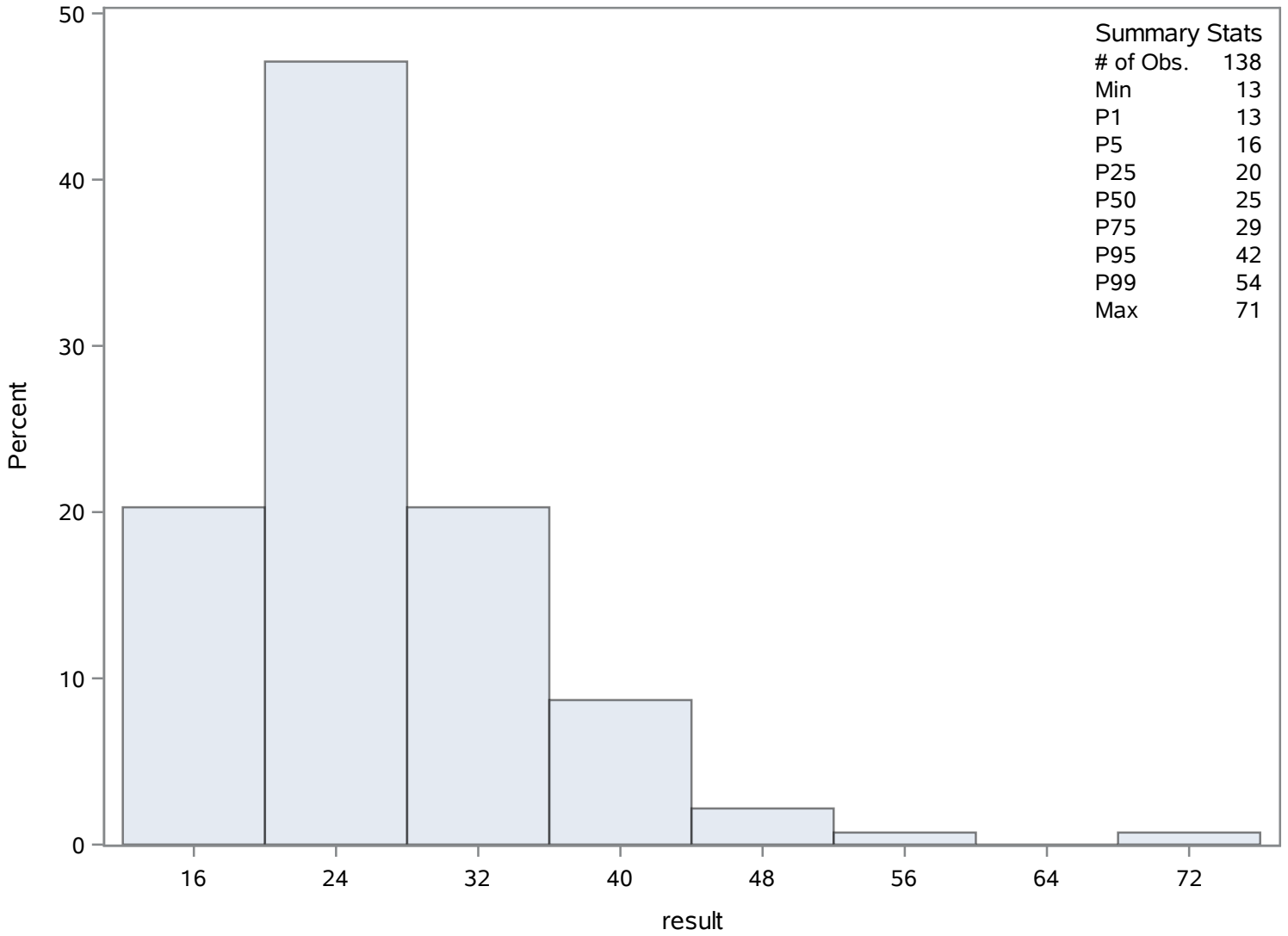
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13	1627	45	1616
13	1626	45	1722
14	1628	48	1694
14	1594	54	1615
14	1593	71	1693

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.78259259	Sum Observations	840.52
Std Deviation	0.19842544	Variance	0.03937265
Skewness	-0.0024775	Kurtosis	0.13352381
Uncorrected SS	6545.6376	Corrected SS	4.21287407
Coeff Variation	2.54960589	Std Error Mean	0.0190935

Basic Statistical Measures			
Location		Variability	
Mean	7.782593	Std Deviation	0.19843
Median	7.755000	Variance	0.03937
Mode	7.670000	Range	1.02000
		Interquartile Range	0.25500

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	407.6044	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.210
99%	8.210
95%	8.140
90%	8.060
75% Q3	7.910
50% Median	7.755
25% Q1	7.655
10%	7.550
5%	7.470

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Field

The UNIVARIATE Procedure
Variable: result

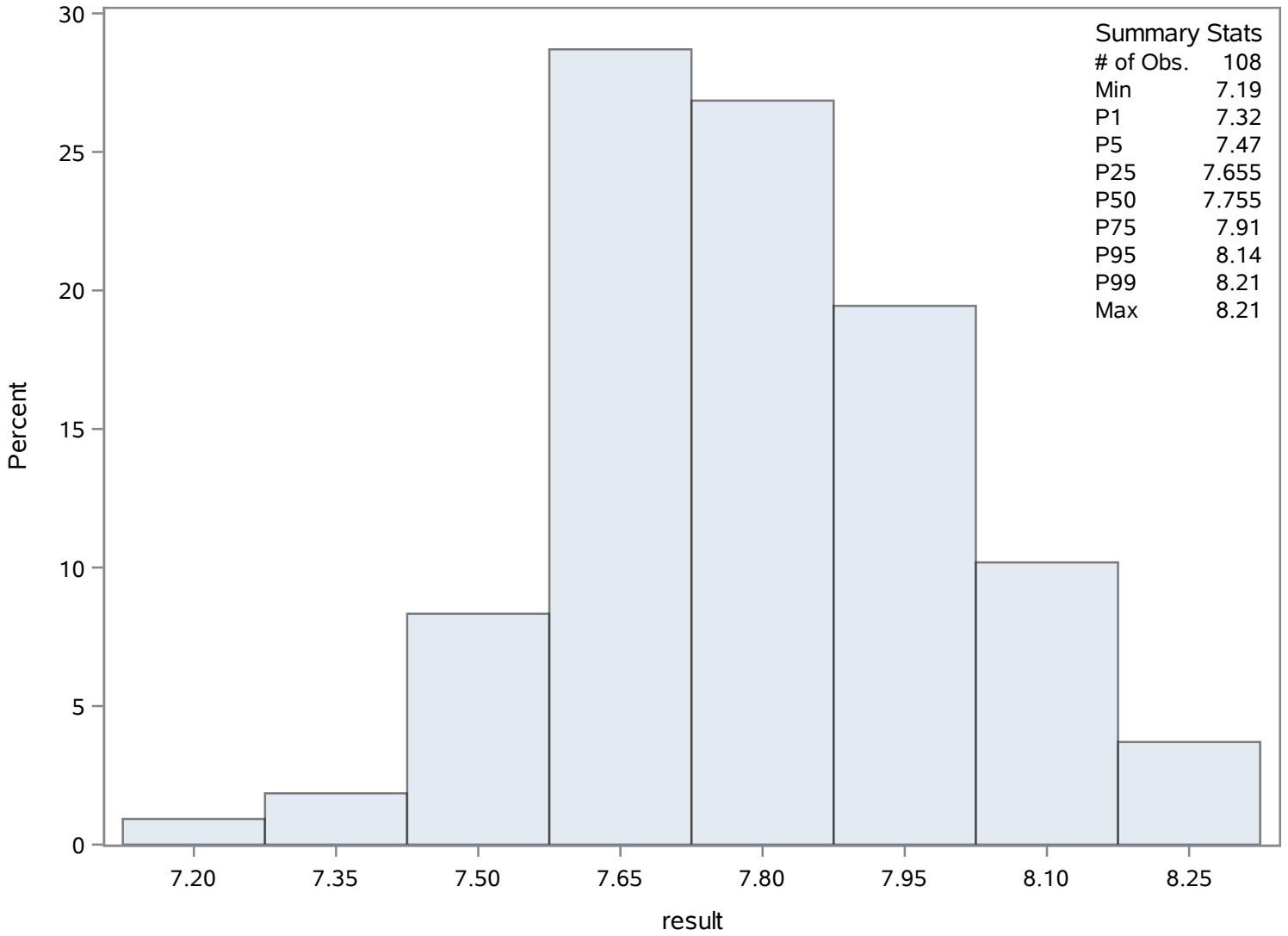
Quantiles (Definition 5)	
Level	Quantile
1%	7.320
0% Min	7.190

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.19	1815	8.16	1773
7.32	1802	8.20	1783
7.39	1816	8.20	1797
7.44	1791	8.21	1782
7.47	1817	8.21	1784

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.88550725	Sum Observations	1088.2
Std Deviation	0.13430042	Variance	0.0180366
Skewness	-0.1166325	Kurtosis	-0.5522604
Uncorrected SS	8583.48	Corrected SS	2.47101449
Coeff Variation	1.70312972	Std Error Mean	0.01143241

Basic Statistical Measures			
Location		Variability	
Mean	7.885507	Std Deviation	0.13430
Median	7.900000	Variance	0.01804
Mode	7.900000	Range	0.60000
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	689.7502	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.2
99%	8.1
95%	8.1
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.7
5%	7.7
1%	7.6
0% Min	7.6

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Lab

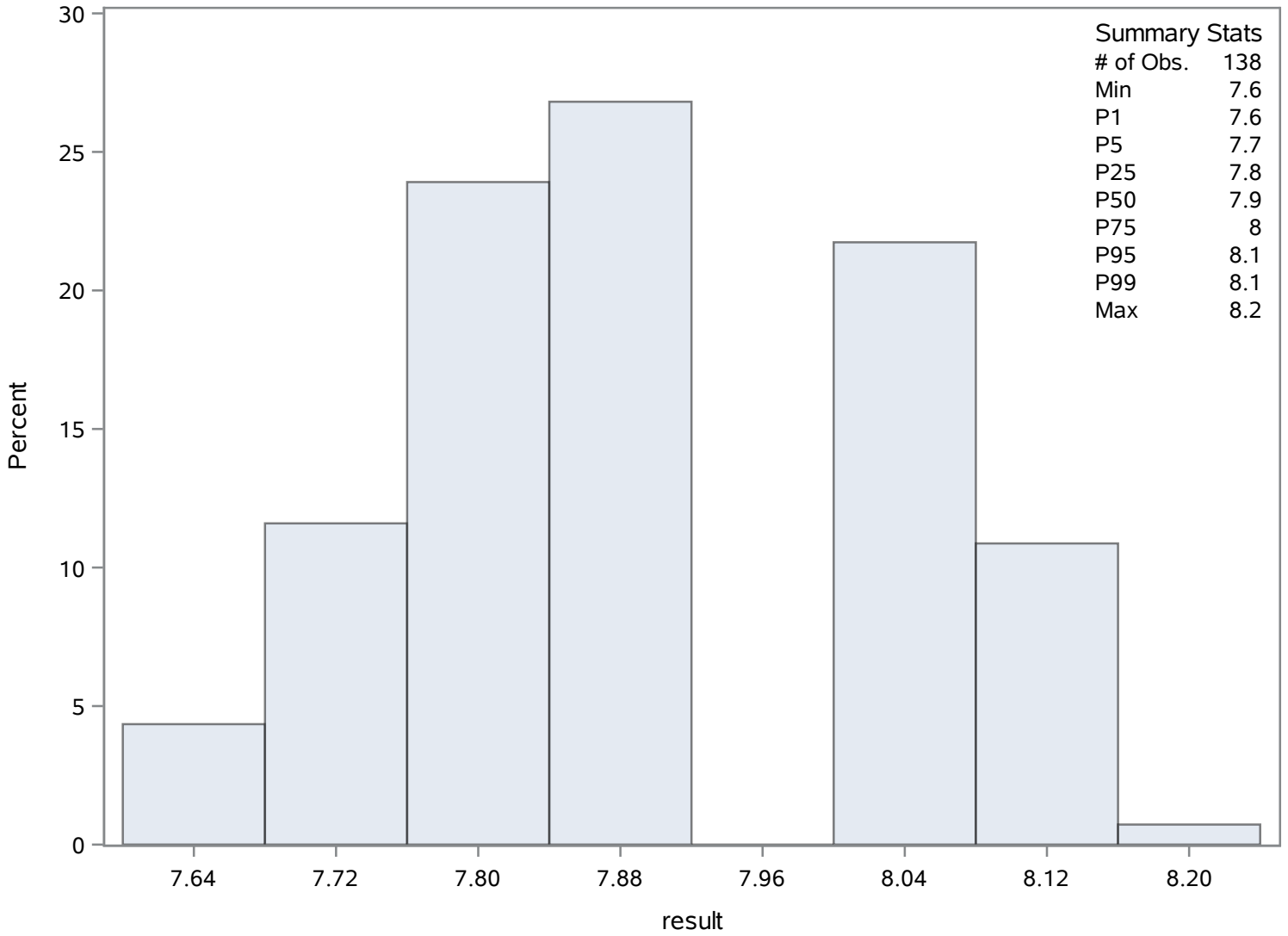
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.6	1967	8.1	1946
7.6	1966	8.1	1959
7.6	1965	8.1	1963
7.6	1859	8.1	1964
7.6	1858	8.2	1901

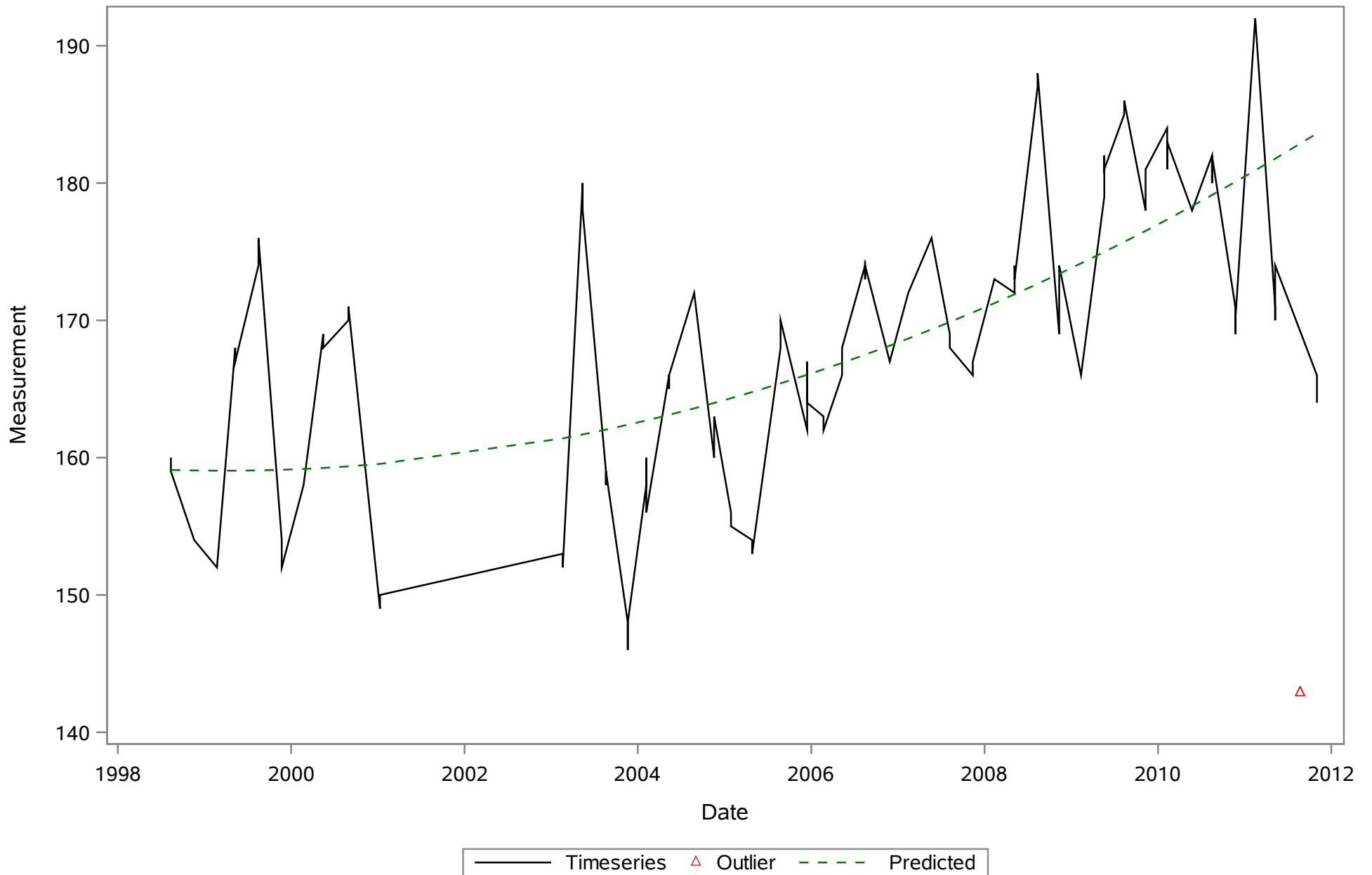
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Lab

The UNIVARIATE Procedure

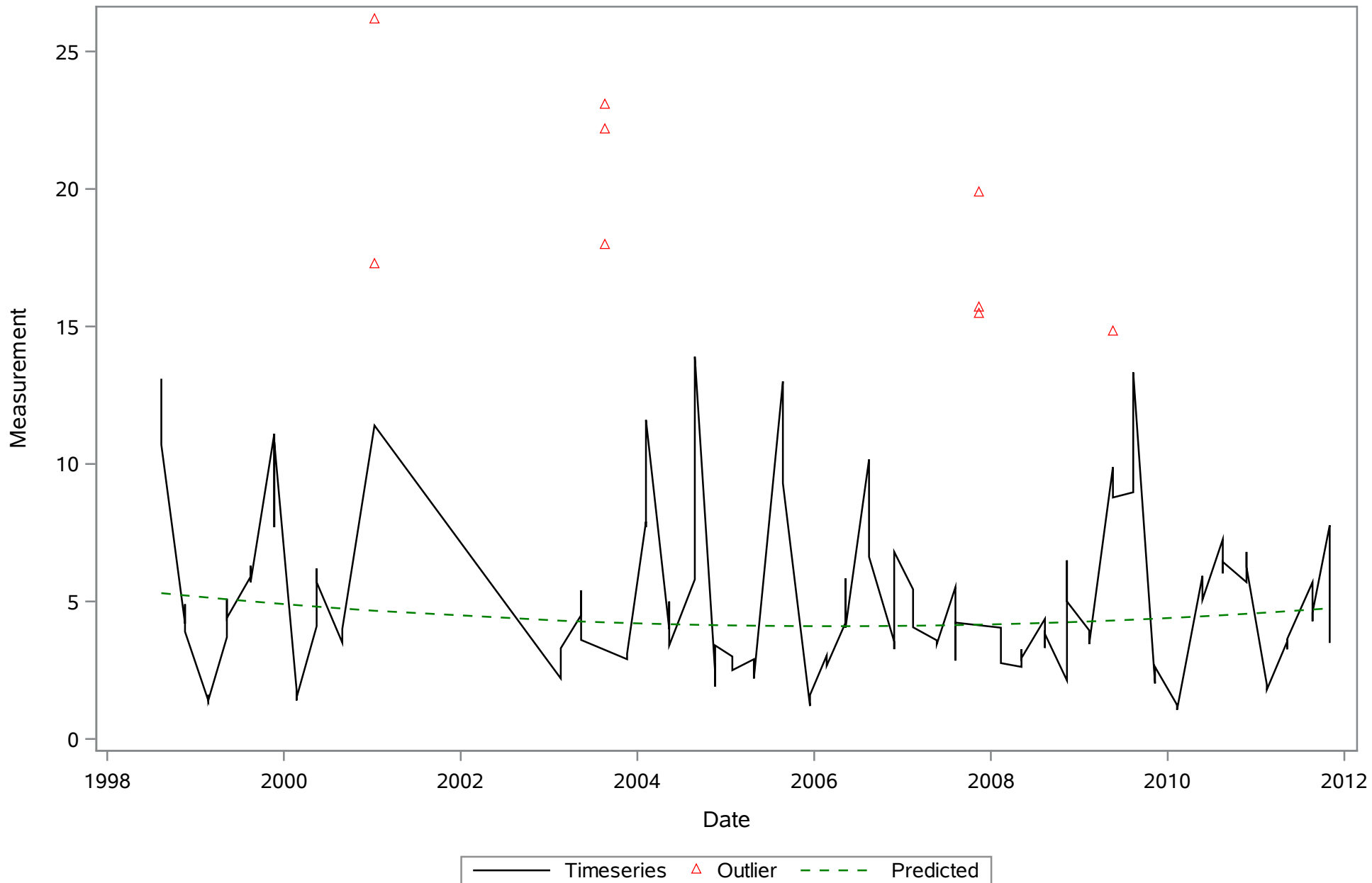
Distribution of result



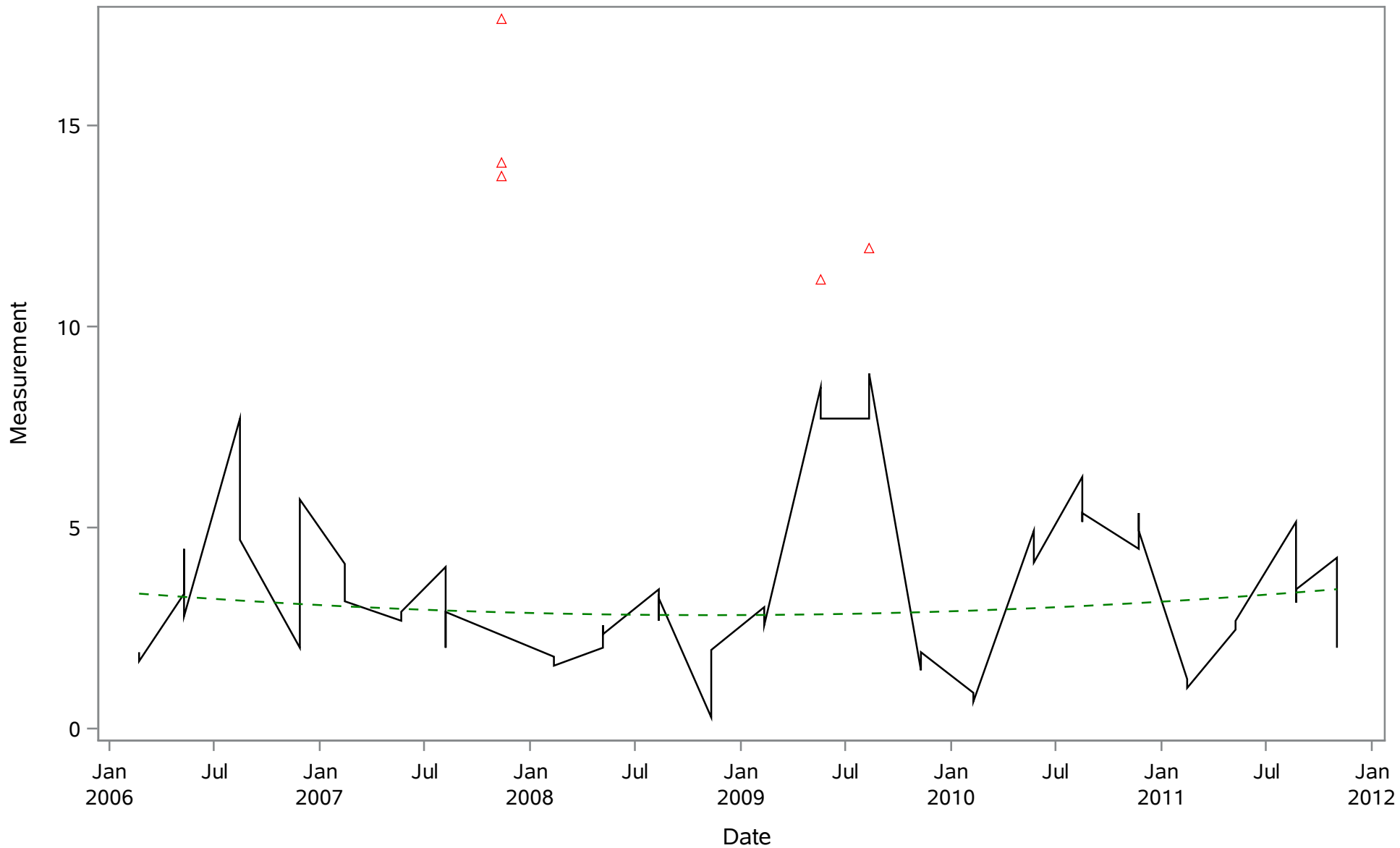
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_Uncor_ugL

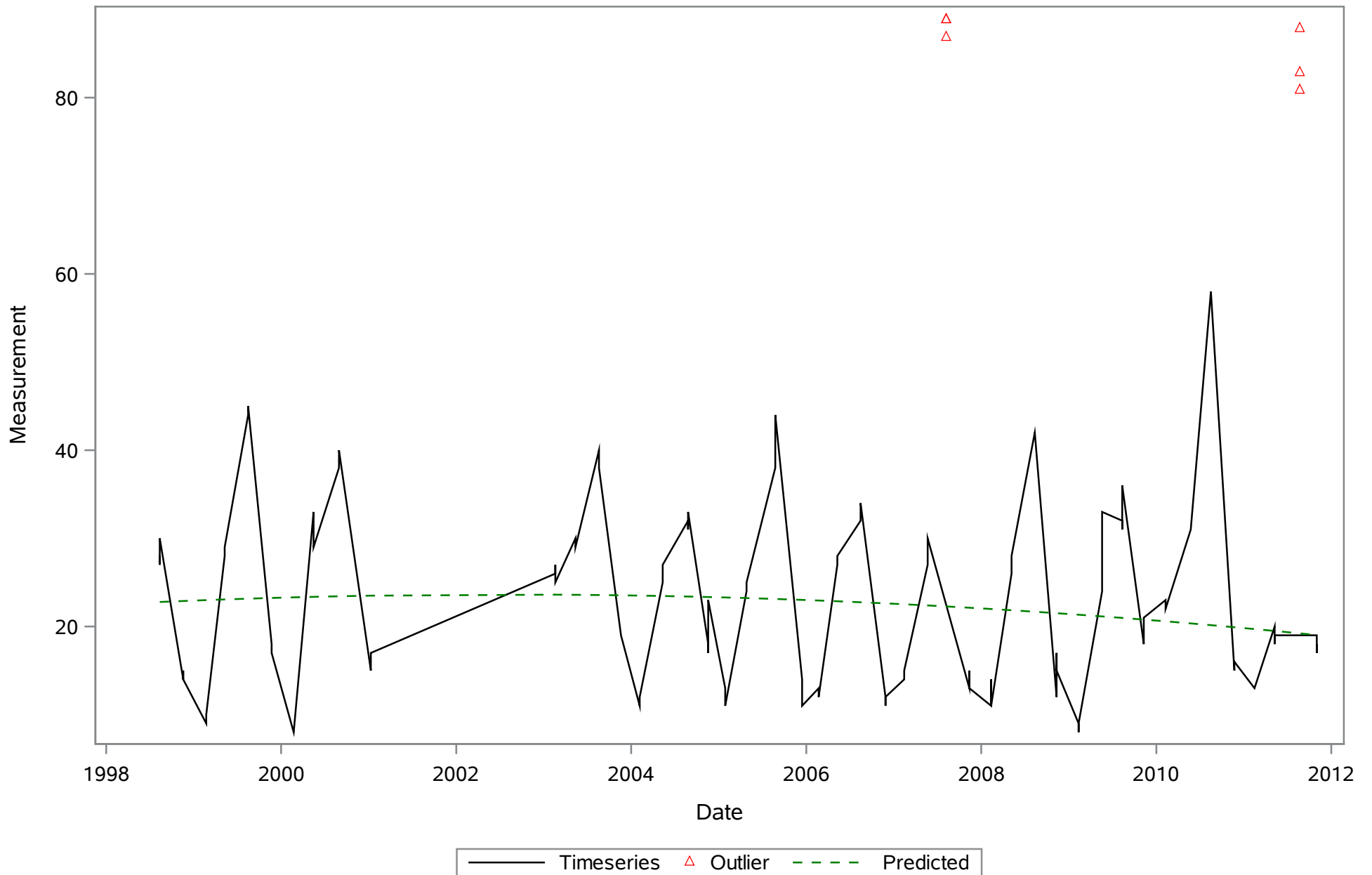


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_cor_ugl

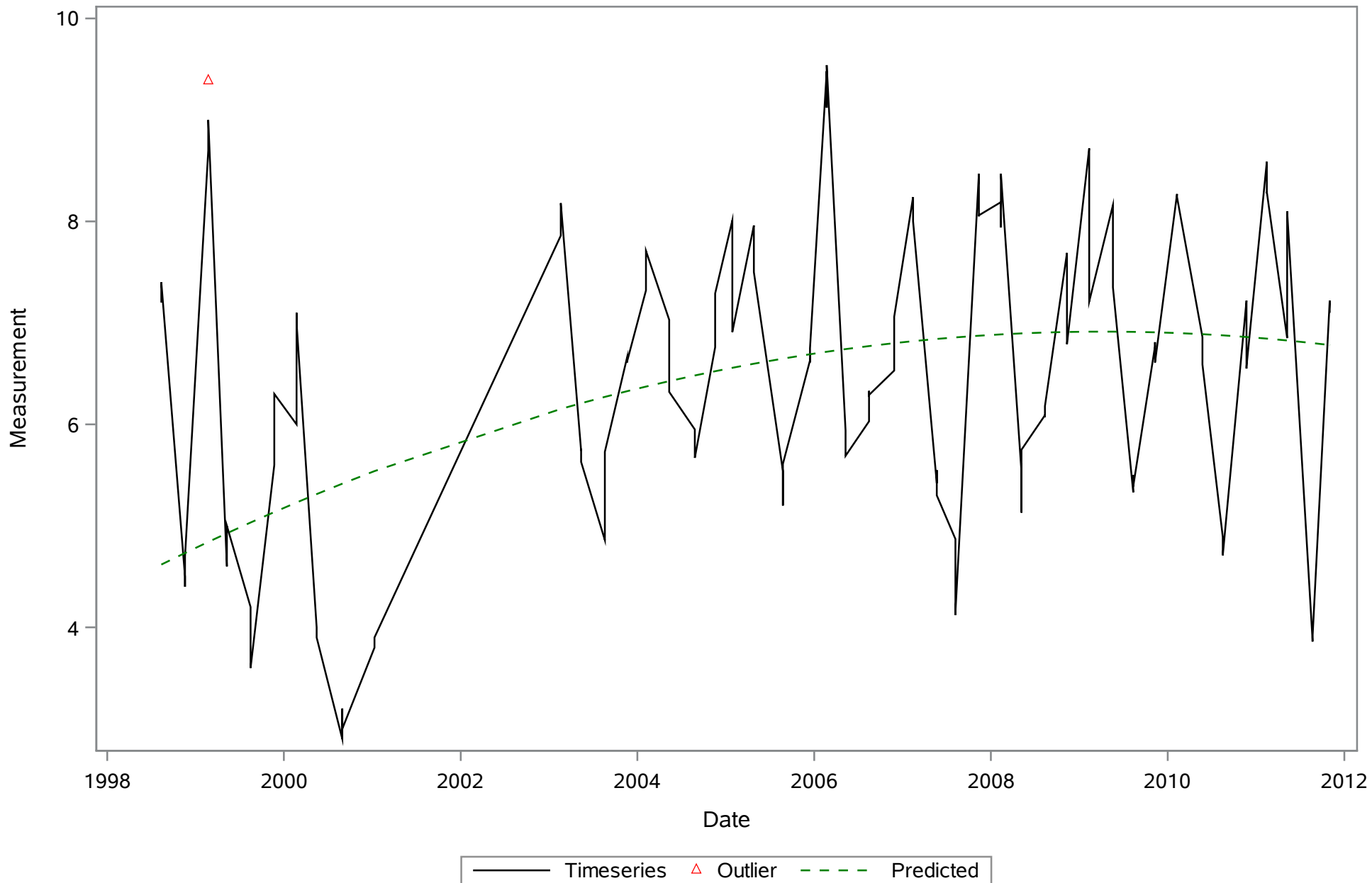


— Timeseries △ Outlier - - - Predicted

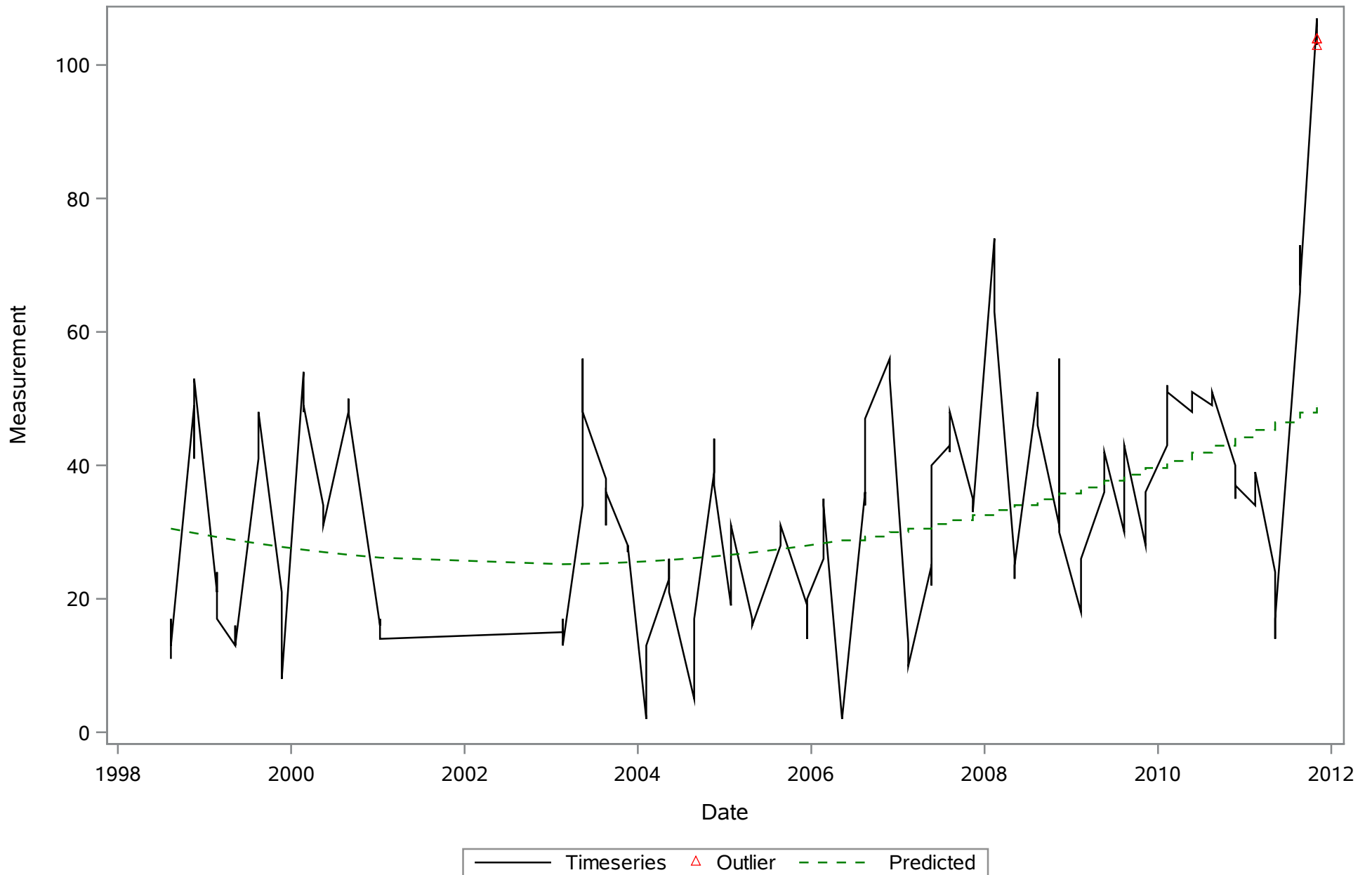
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
COLOR_PtCo



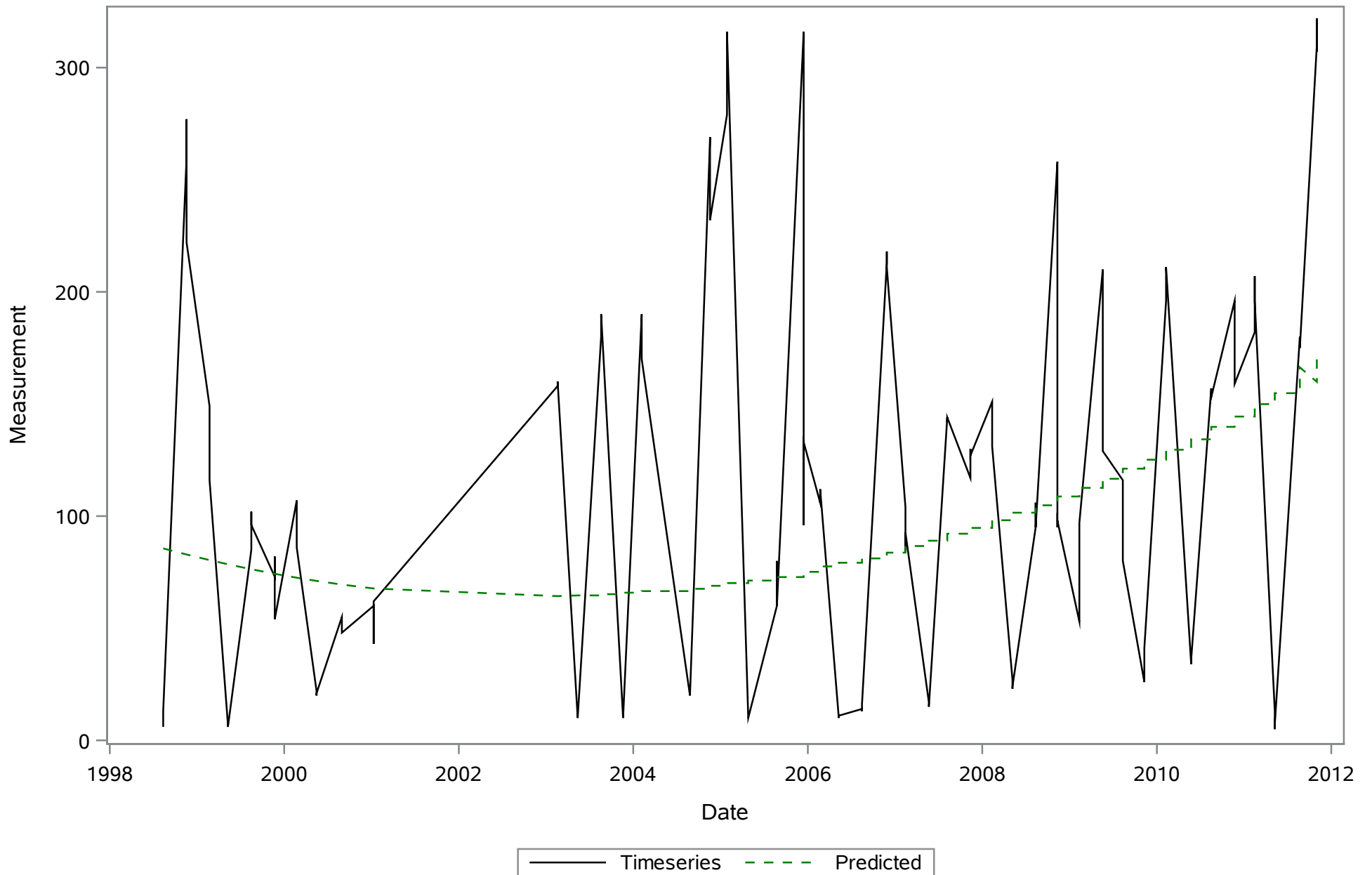
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
DO_mgL



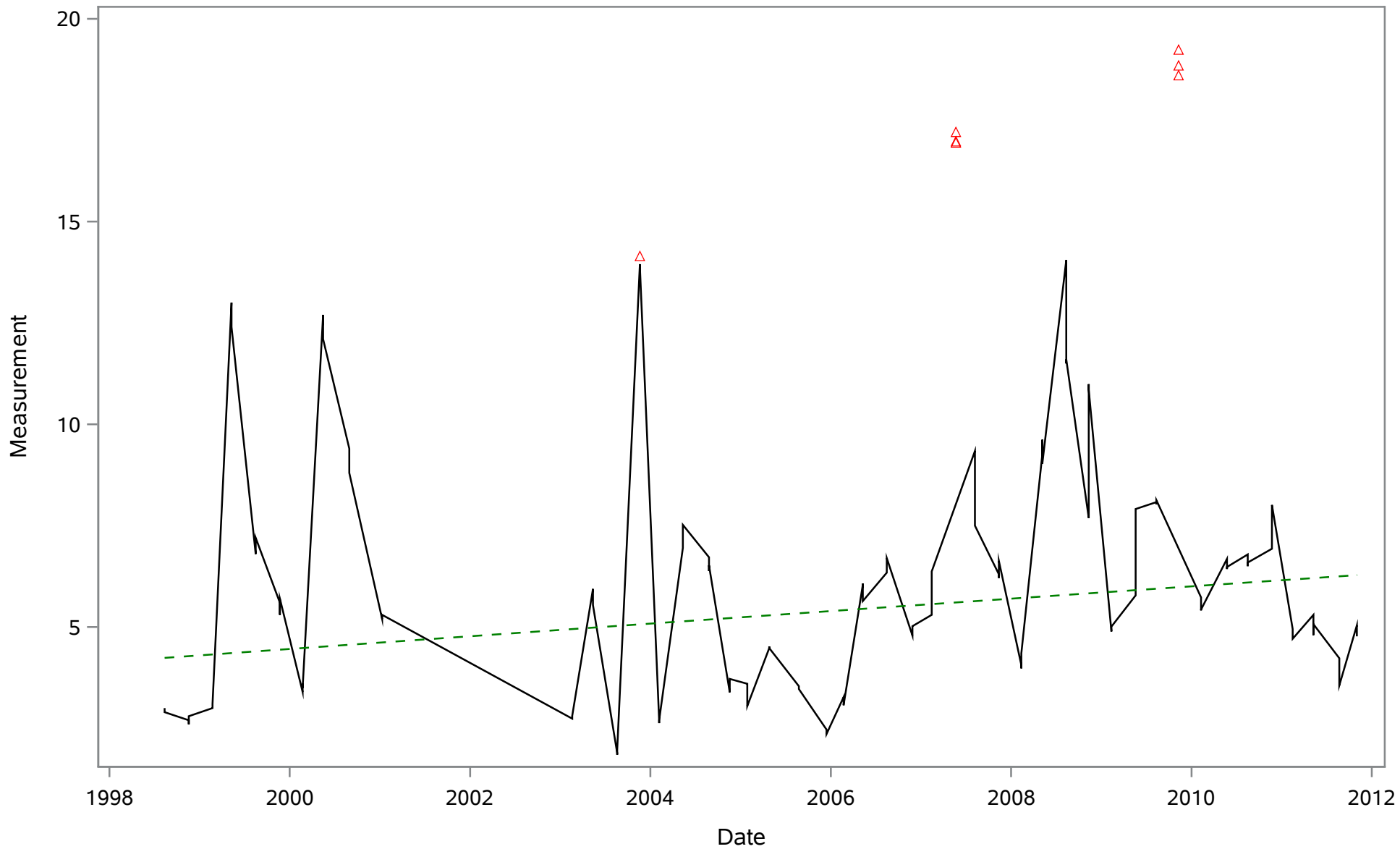
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NH4_ugl



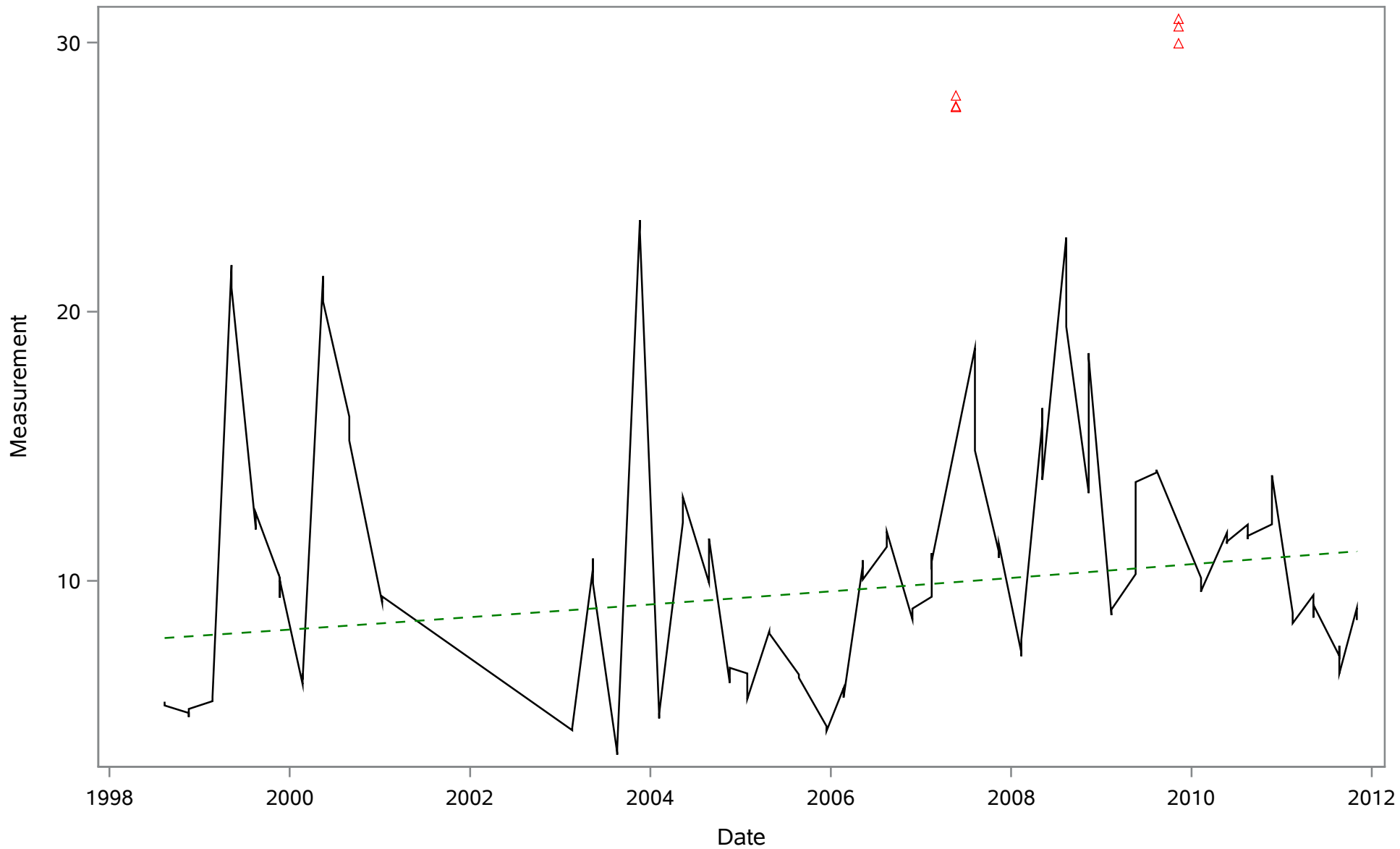
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NO3_ugL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SAL_Perc

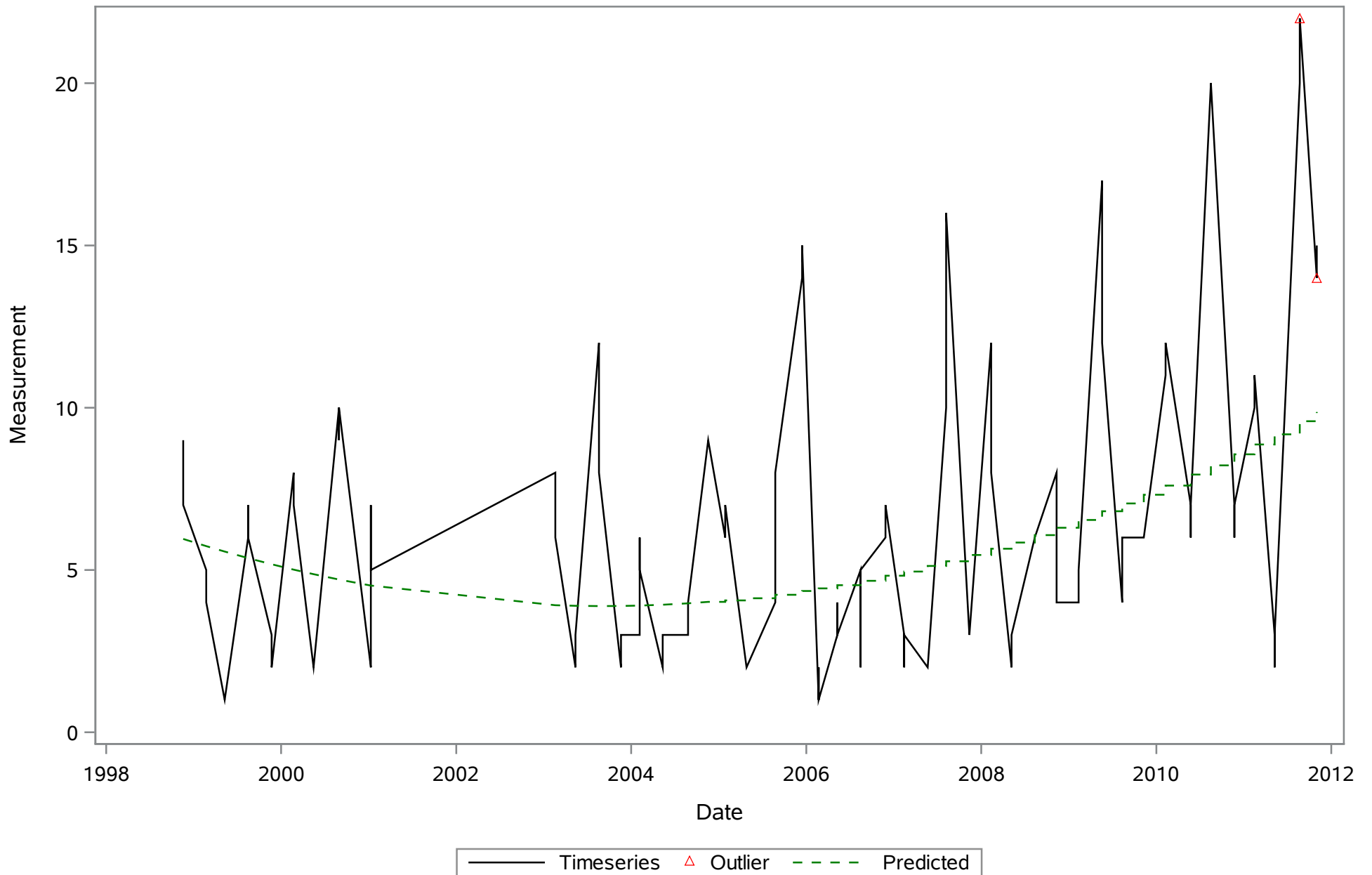


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SPCOND_mS_cm

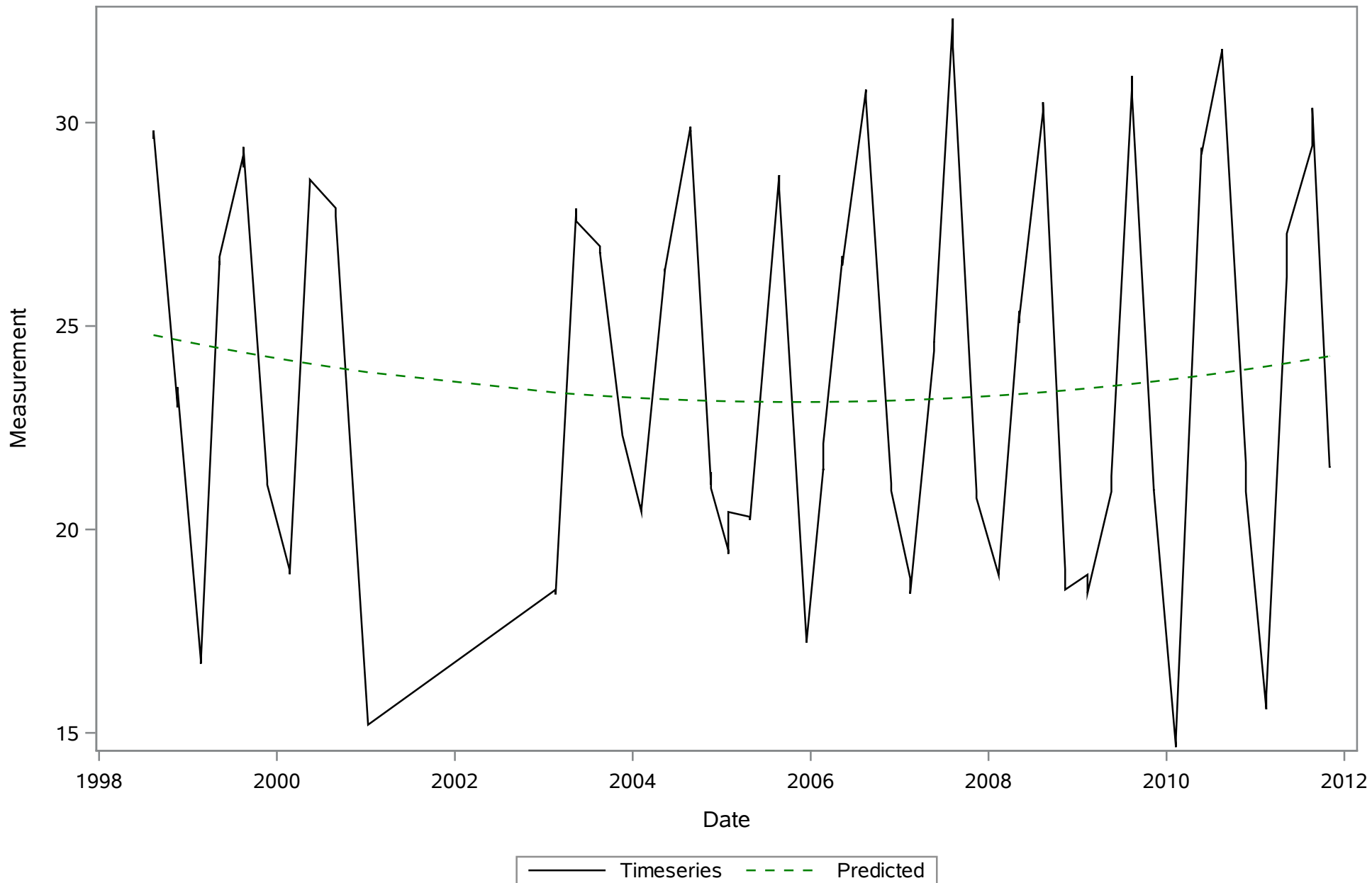


— Timeseries △ Outlier - - - Predicted

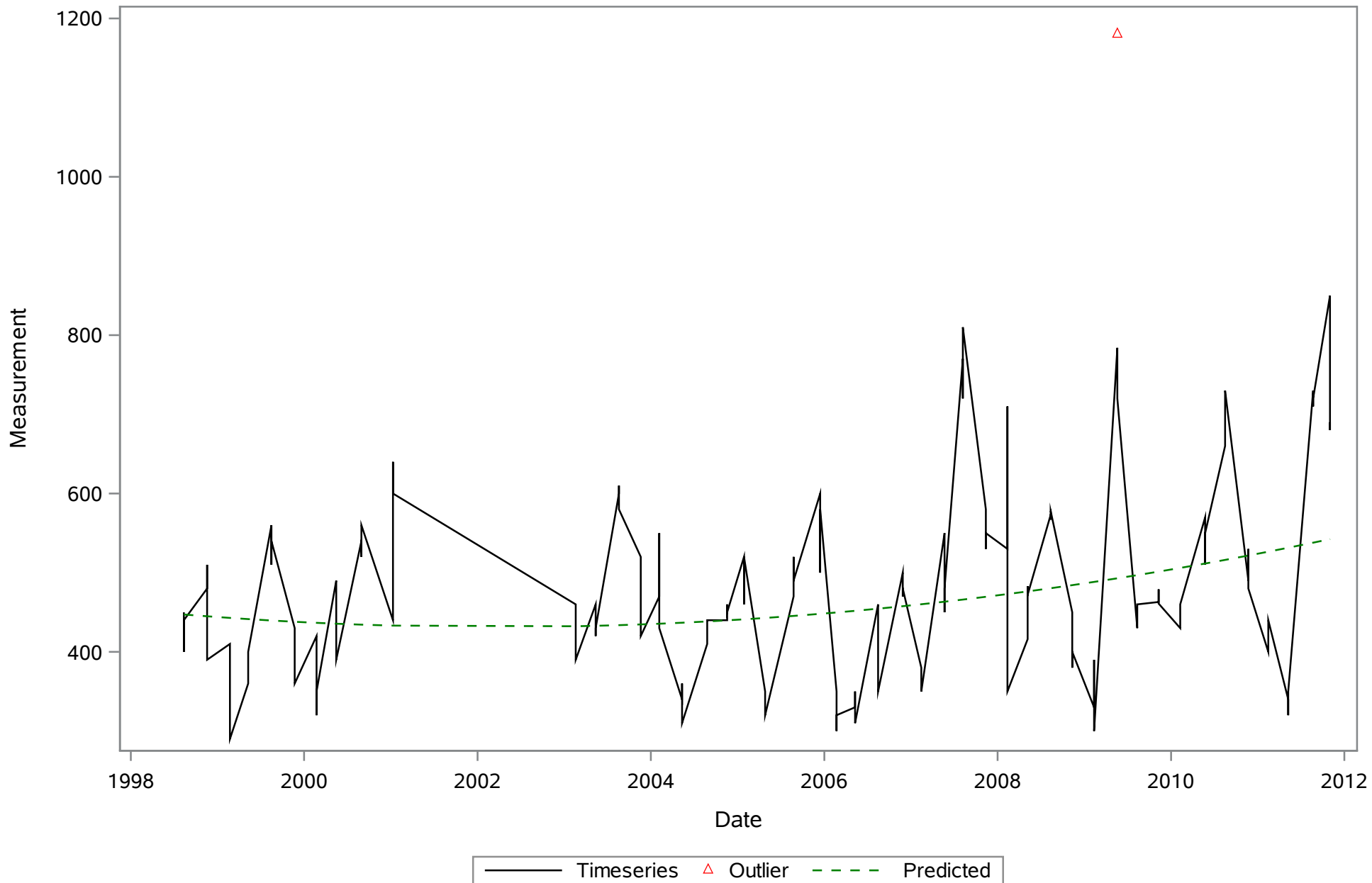
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SRP_ugL



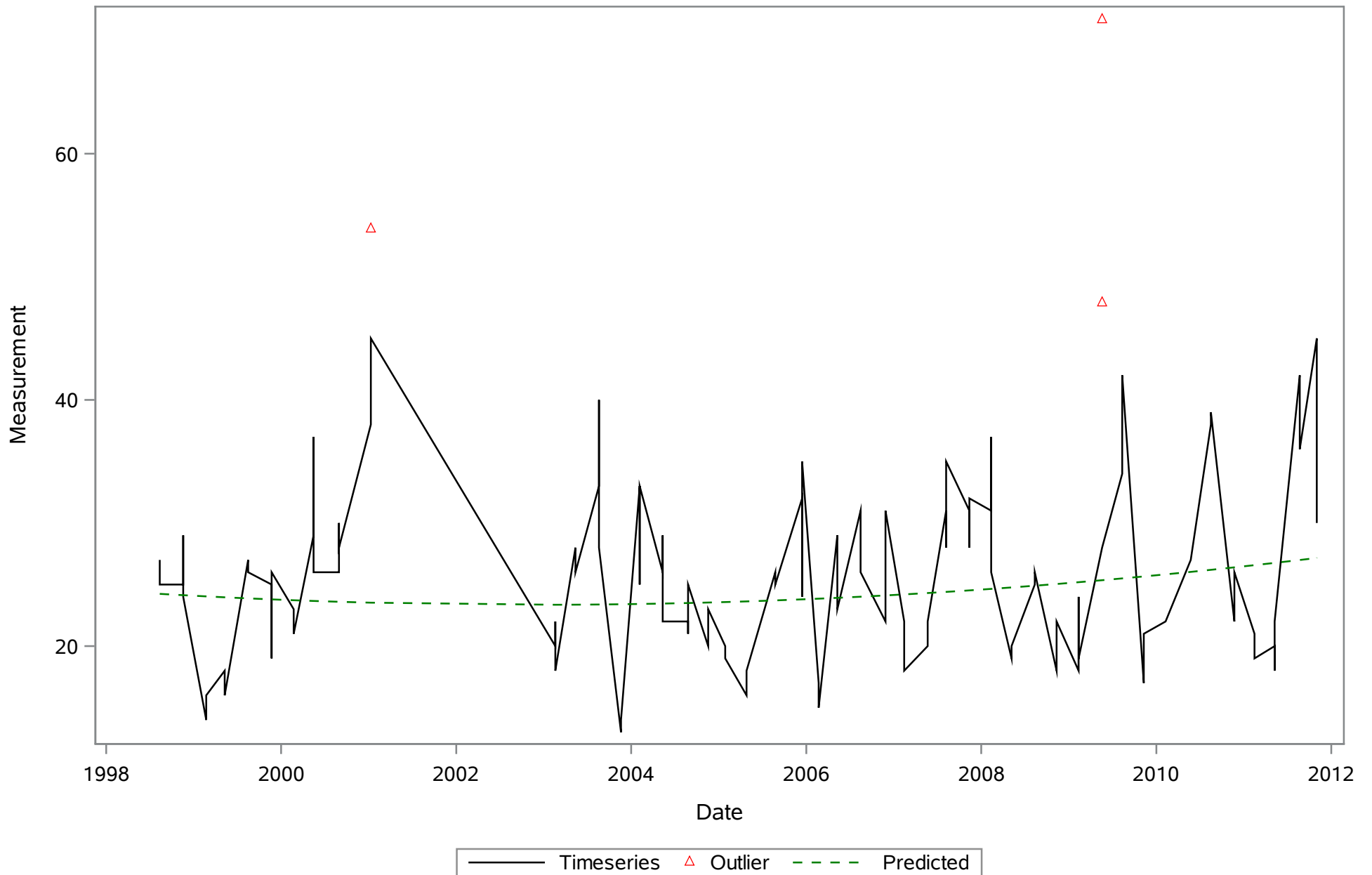
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TEMP_C



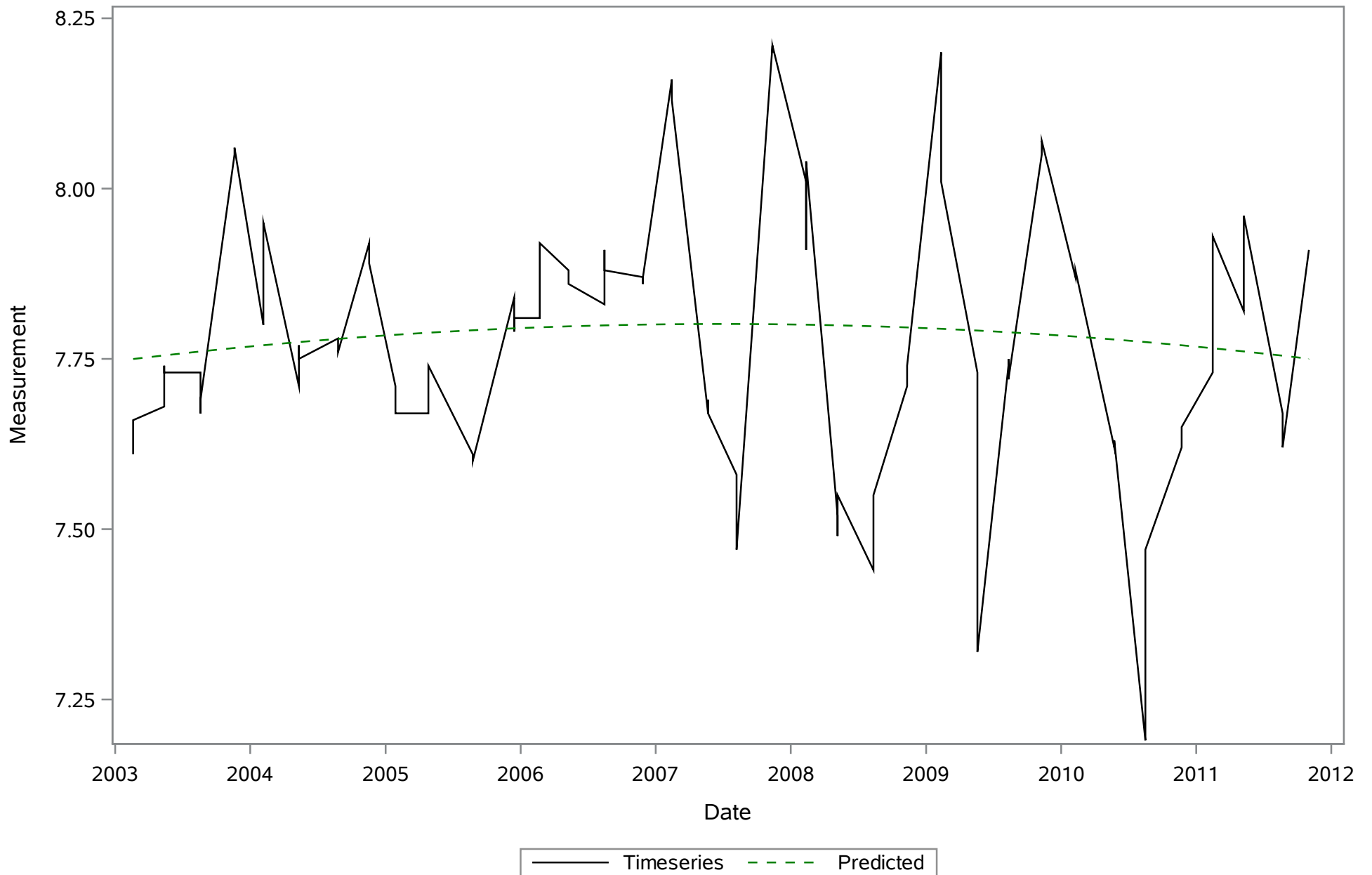
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TN_ugl



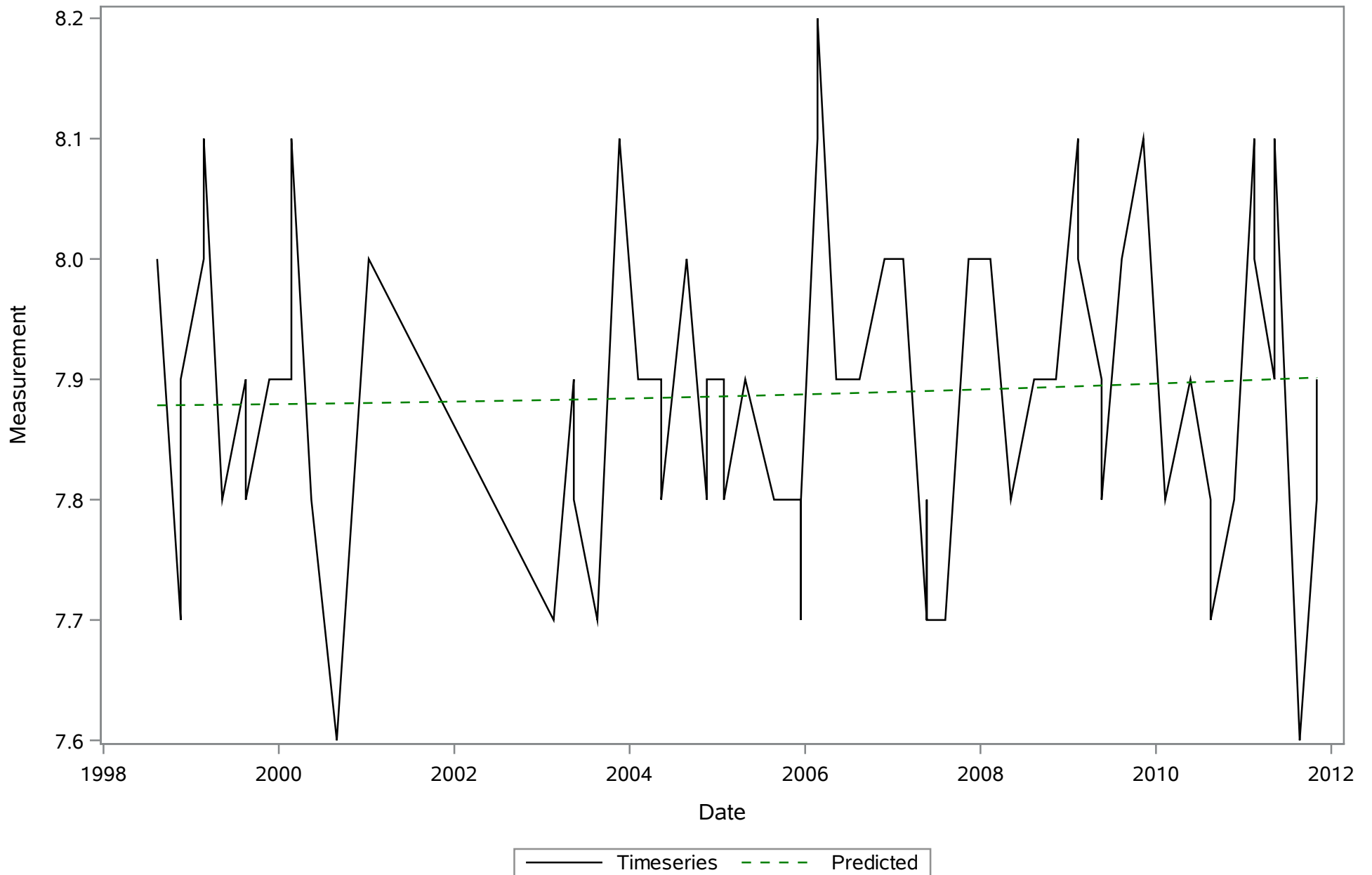
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TP_ugl



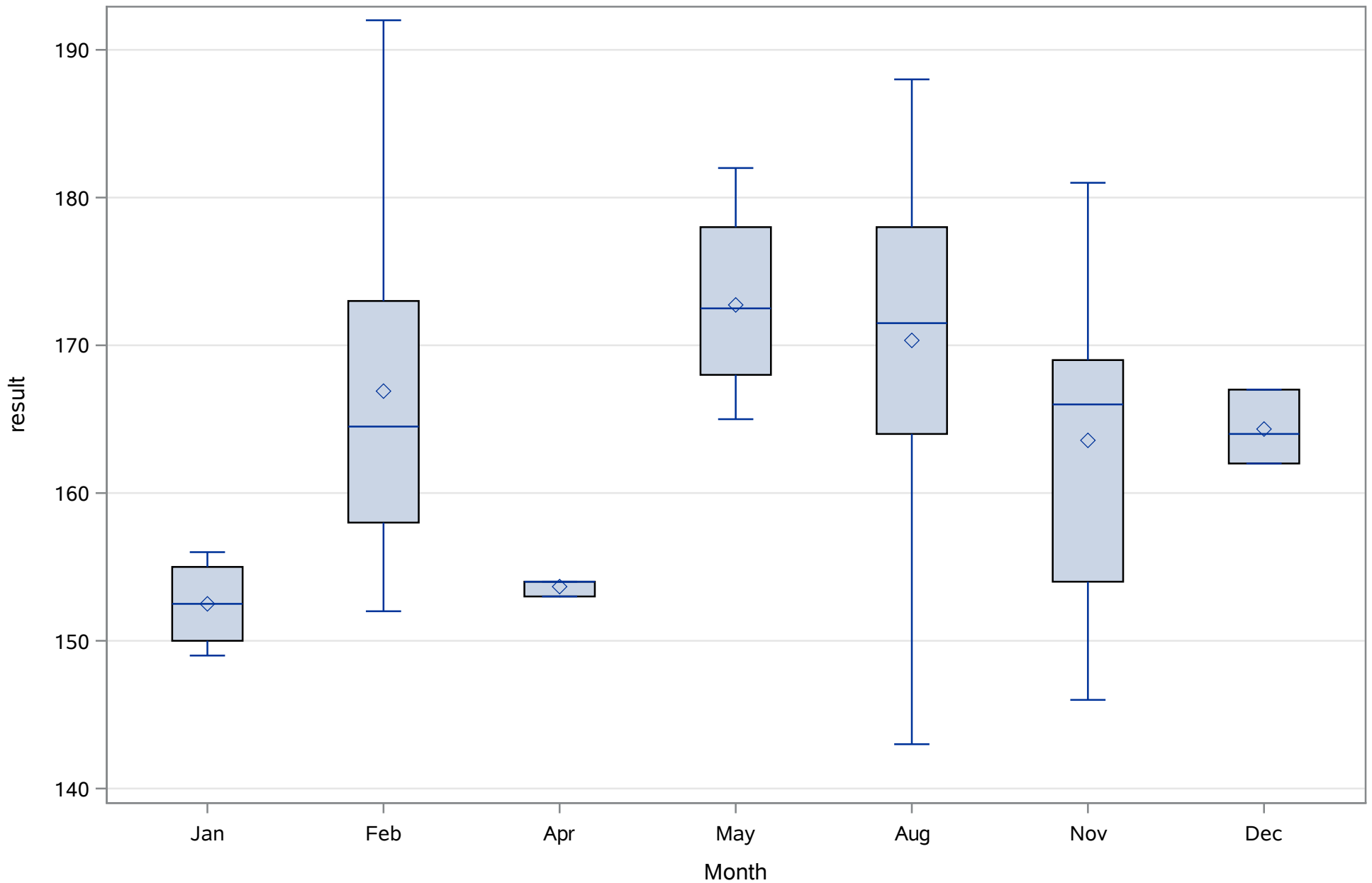
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Field



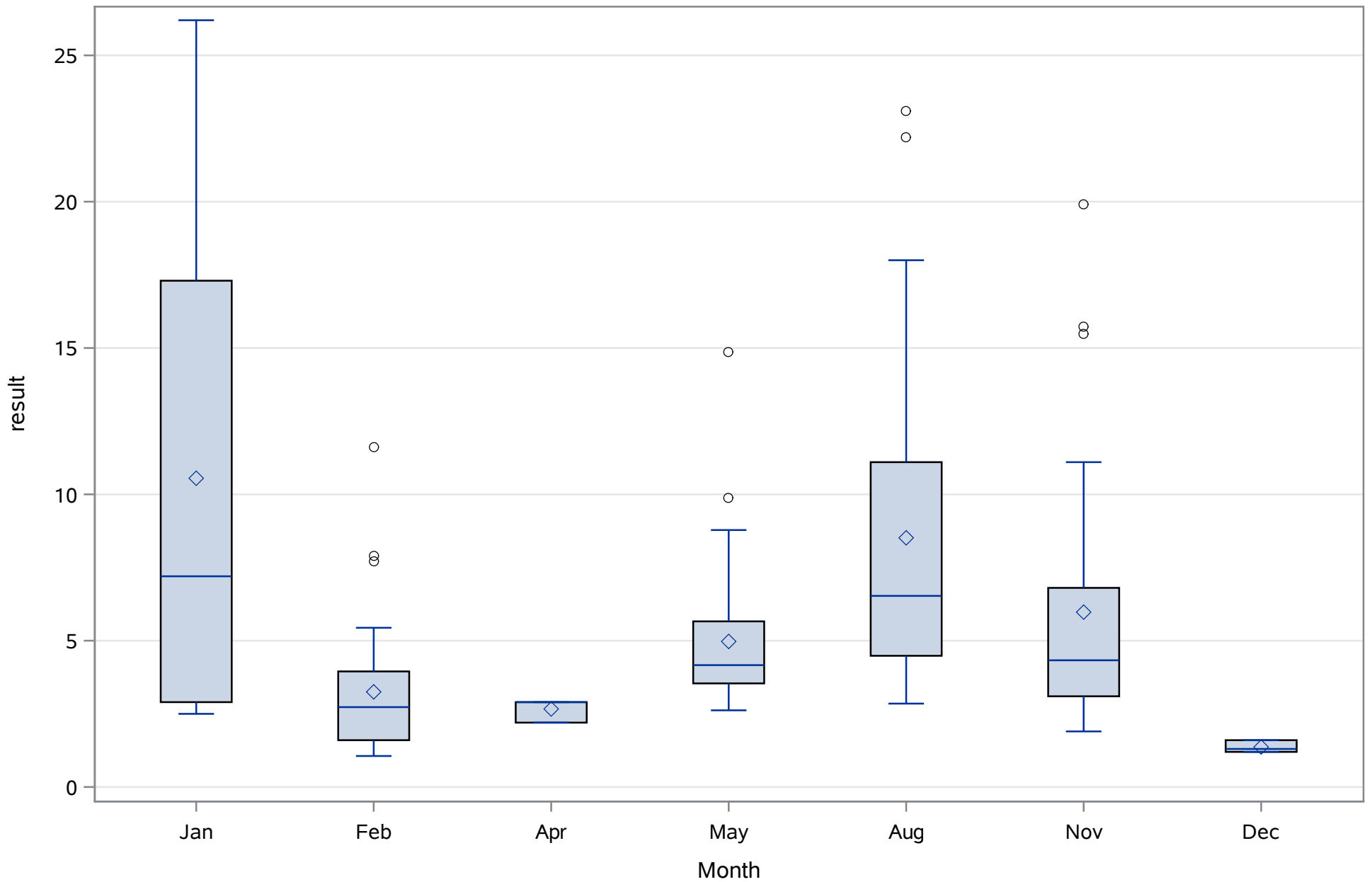
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Lab



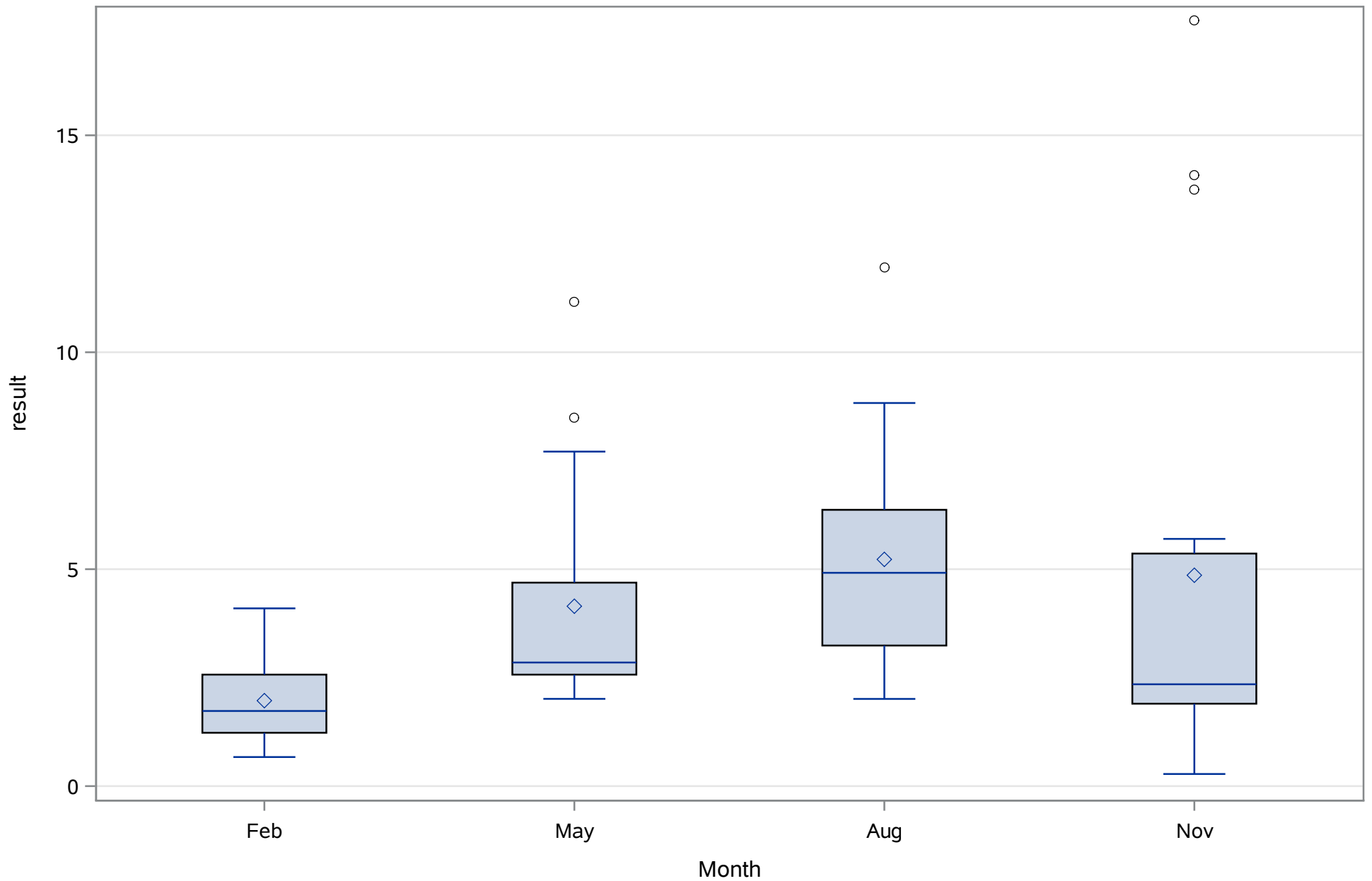
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
ALK_tot_mgL



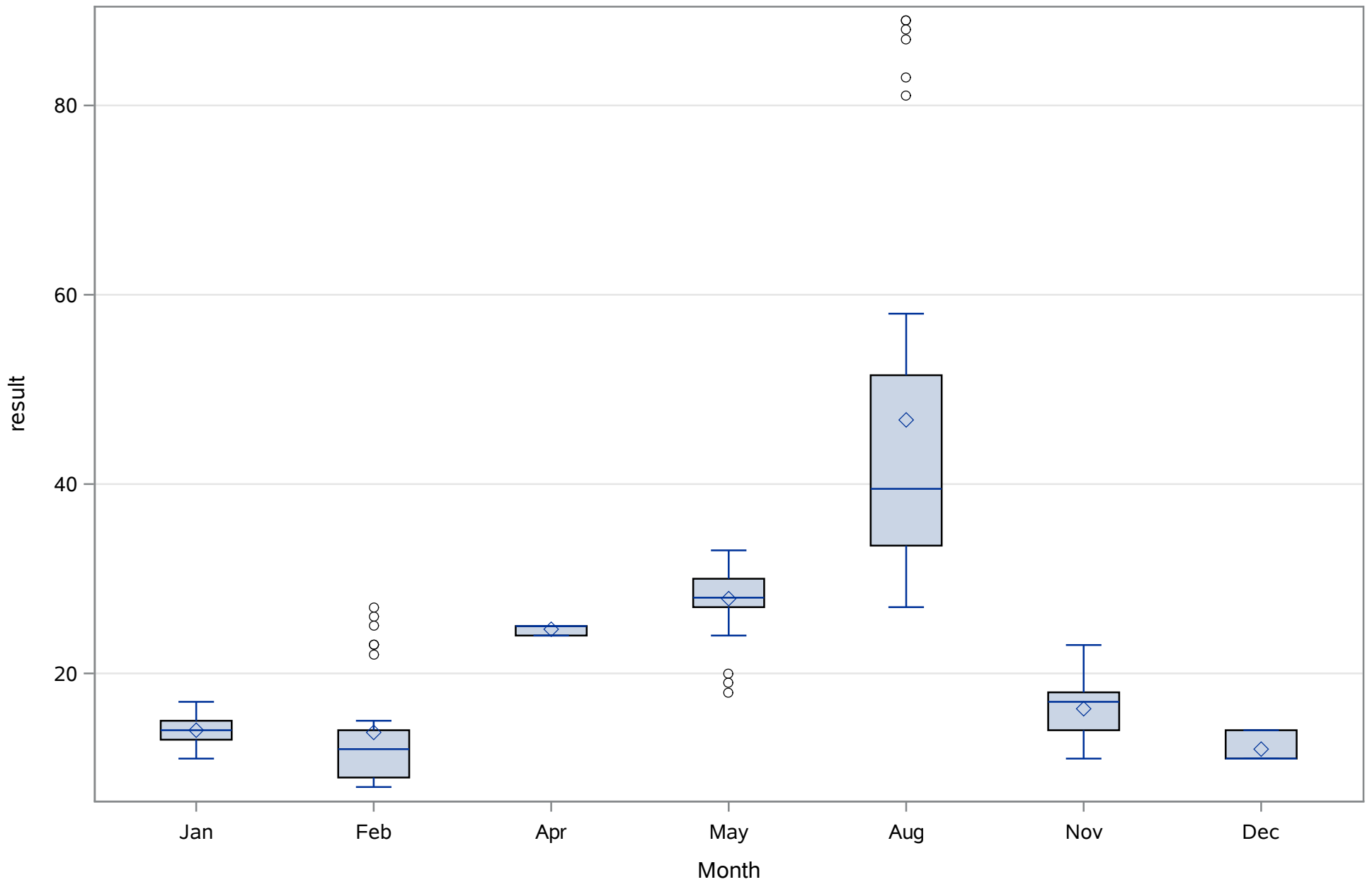
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_Uncor_ugL



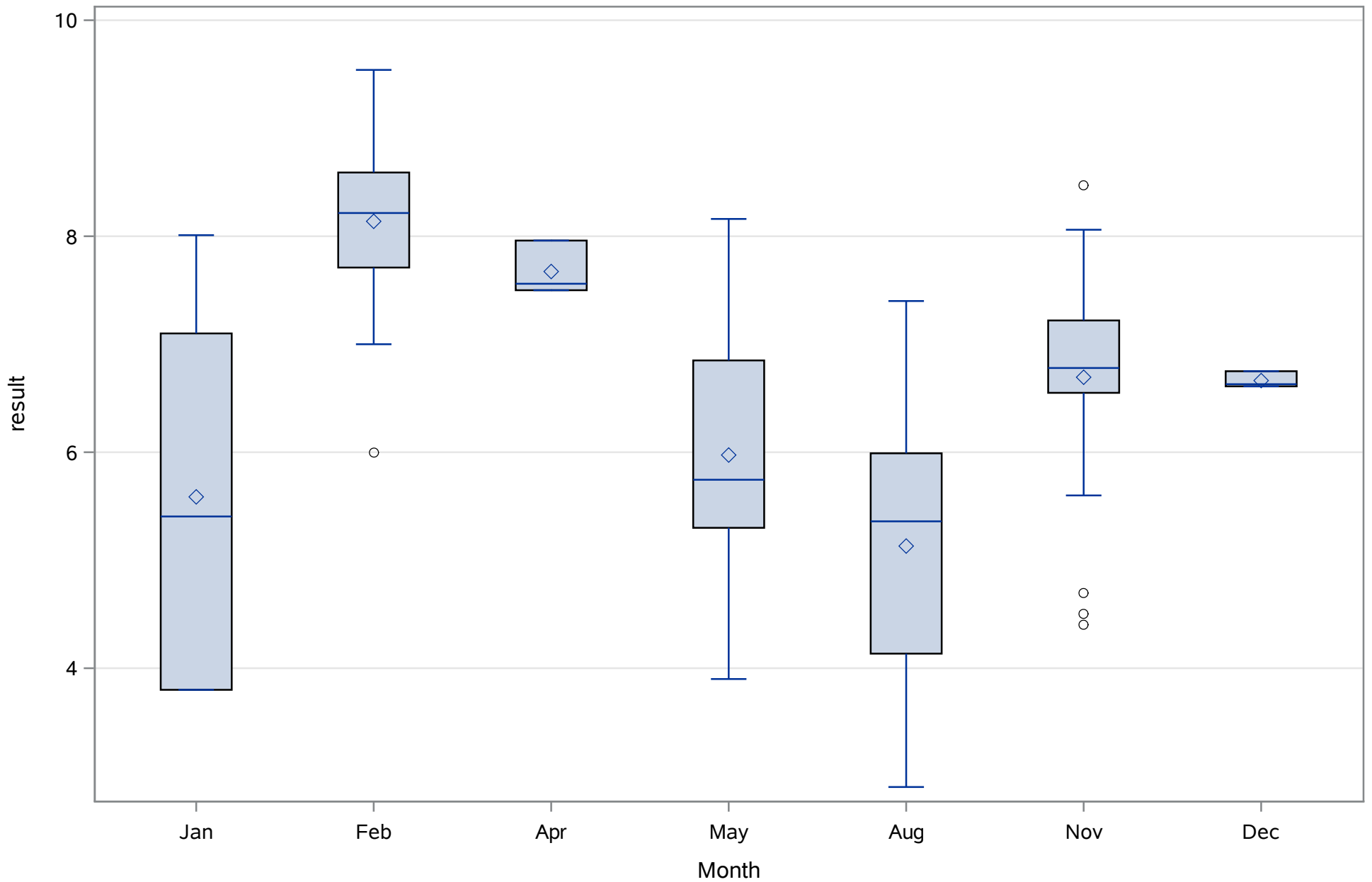
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
CHLA_cor_ugl



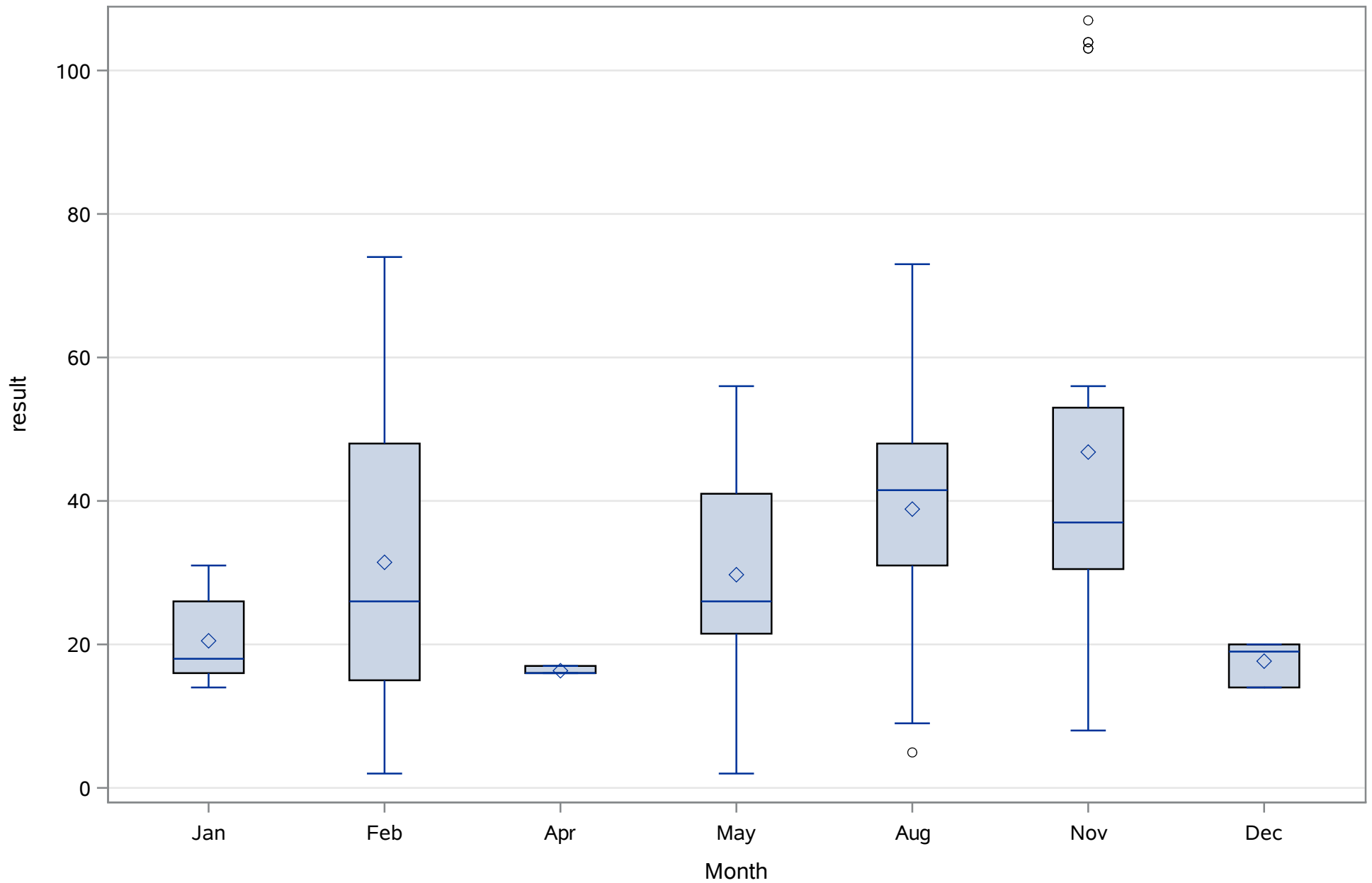
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
COLOR_PtCo



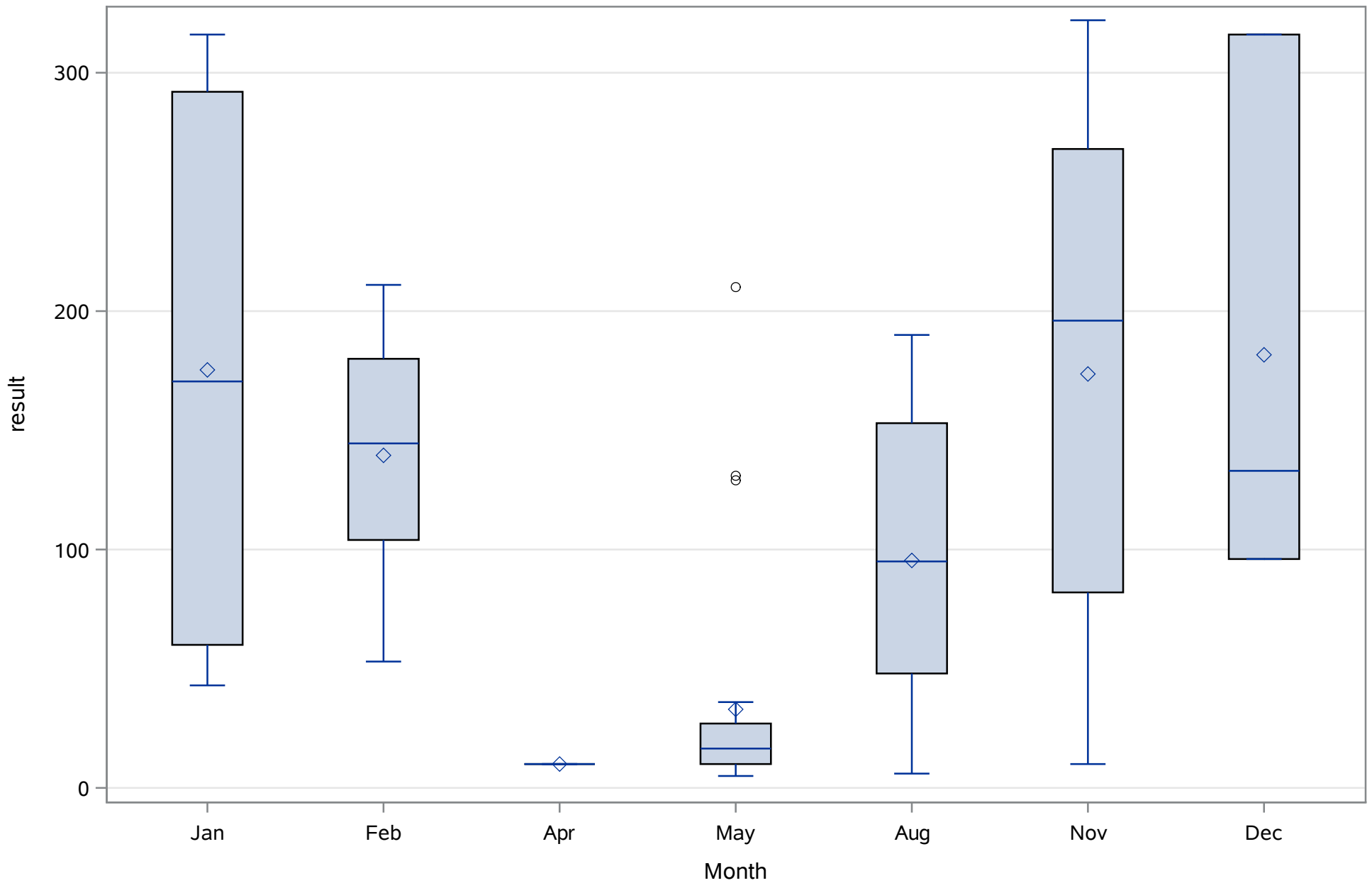
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
DO_mgL



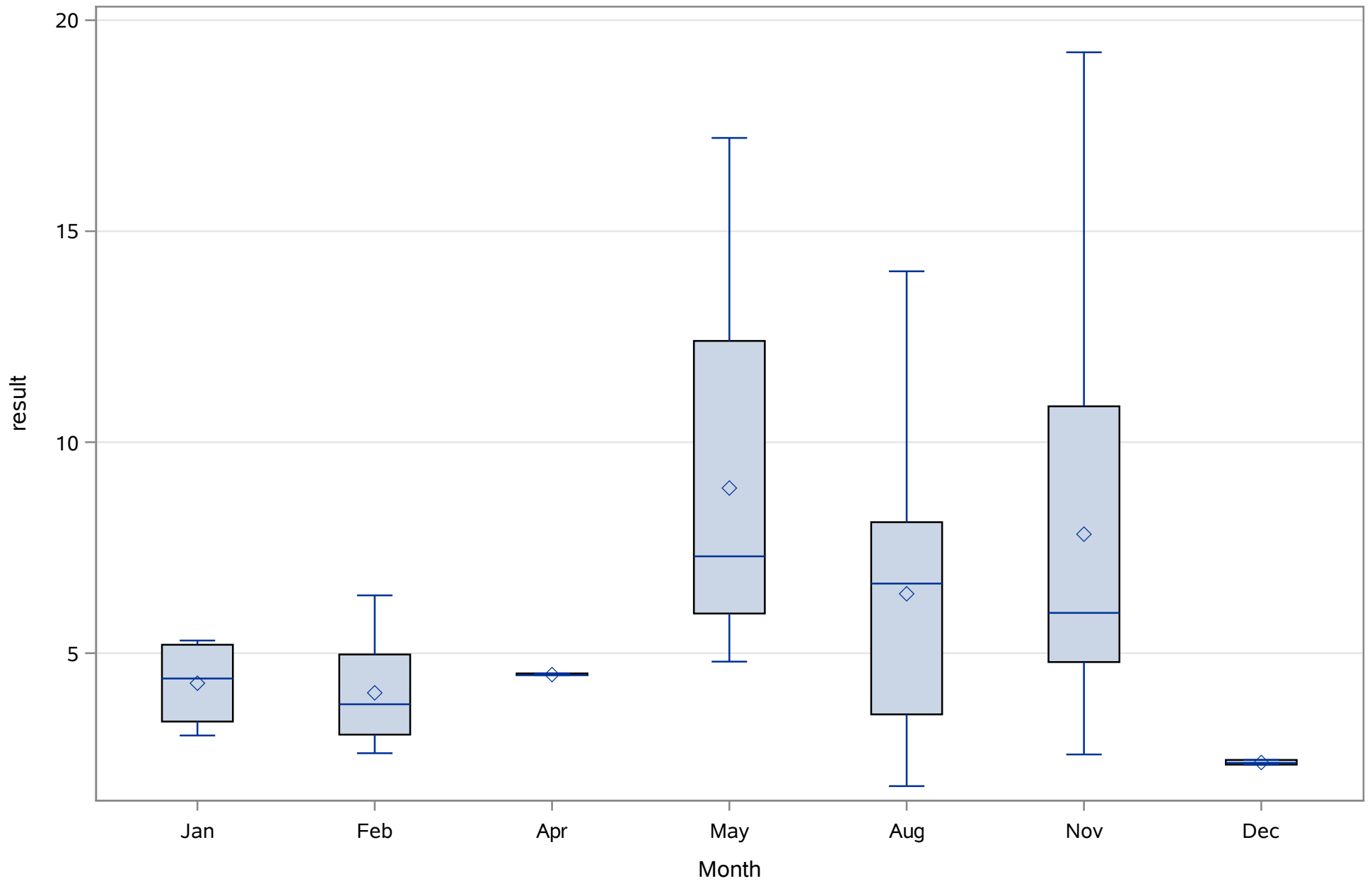
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NH4_ugl



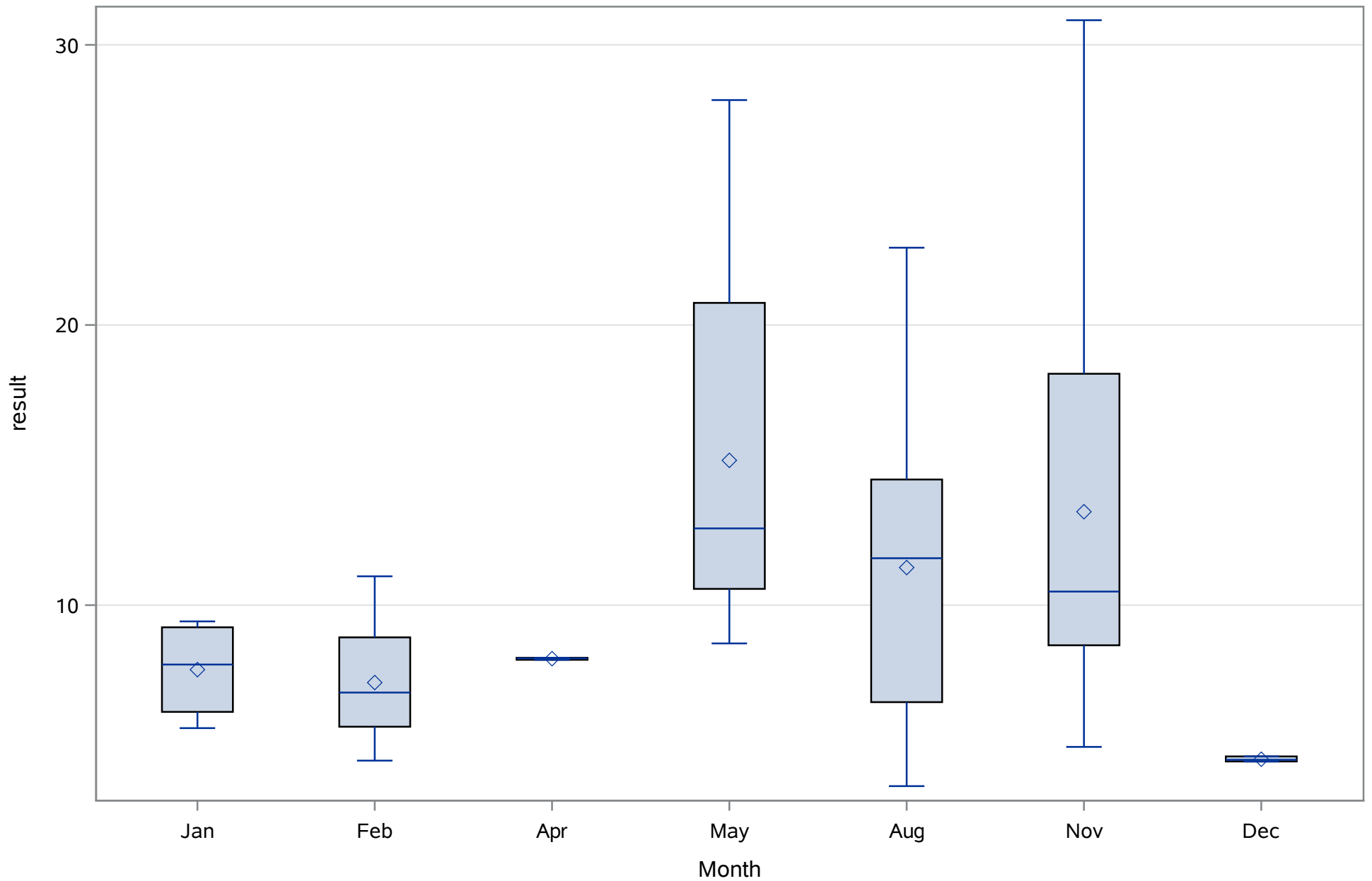
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
NO3_ugL



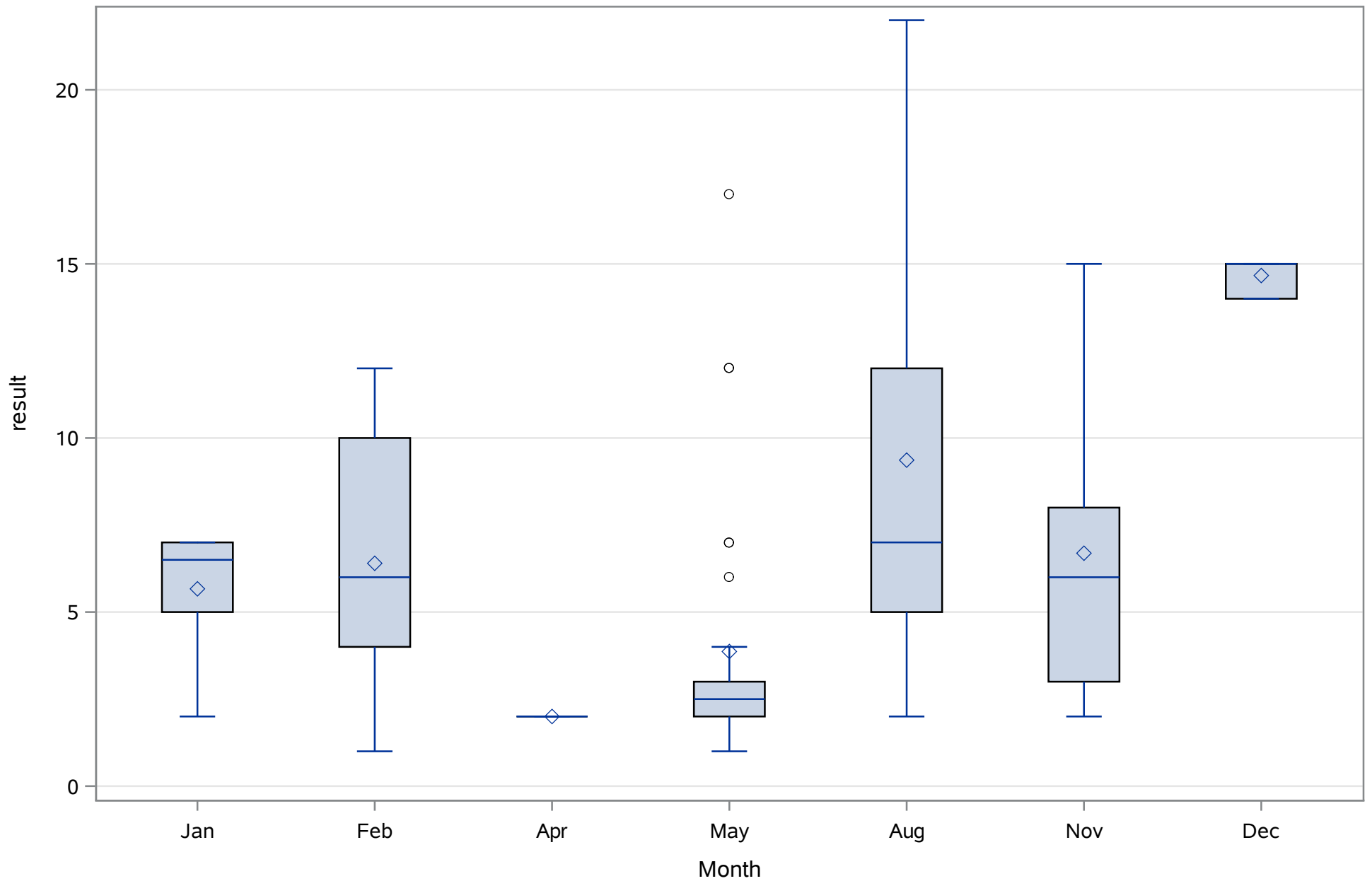
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SAL_Perc



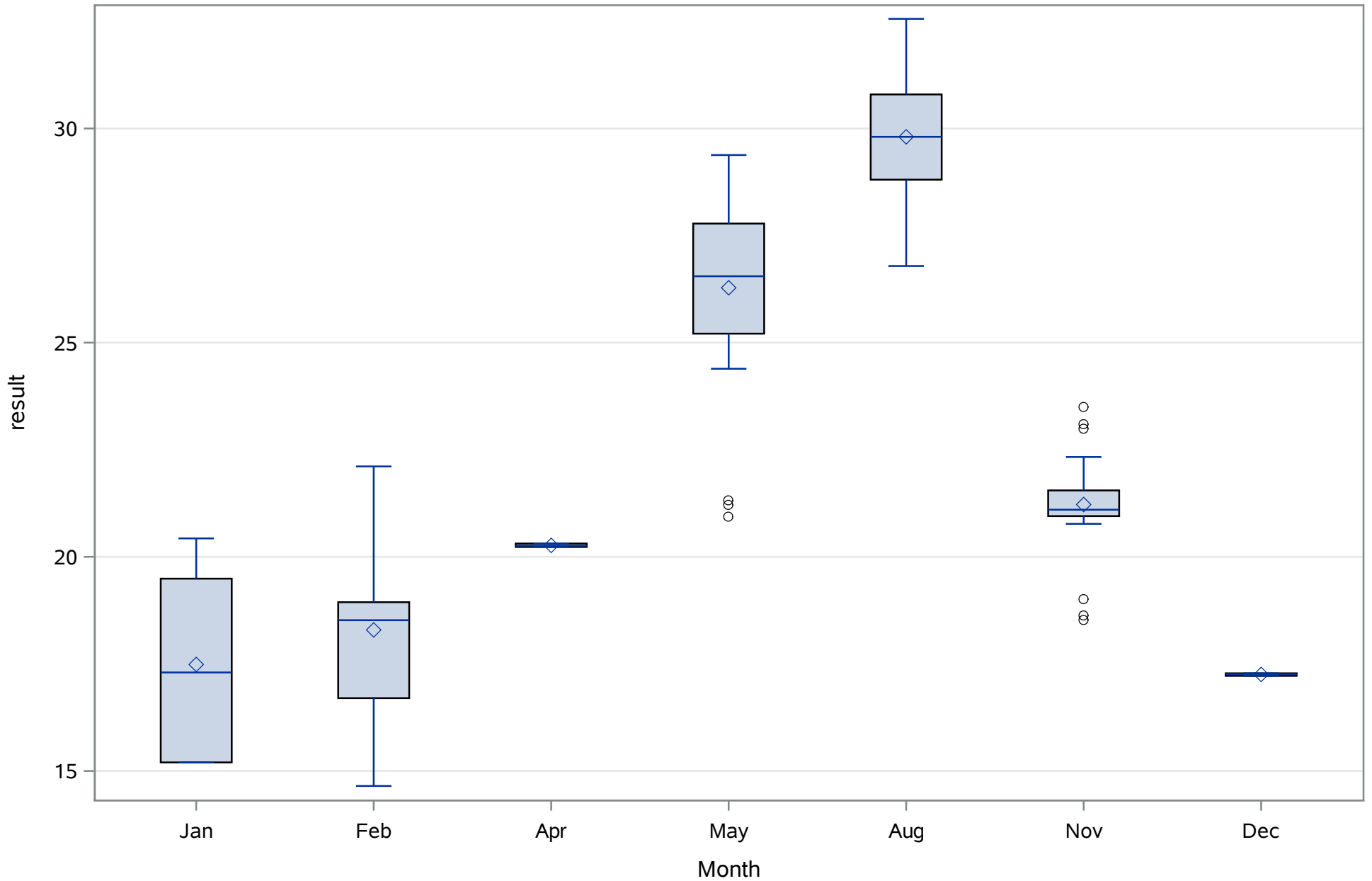
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SPCOND_mS_cm



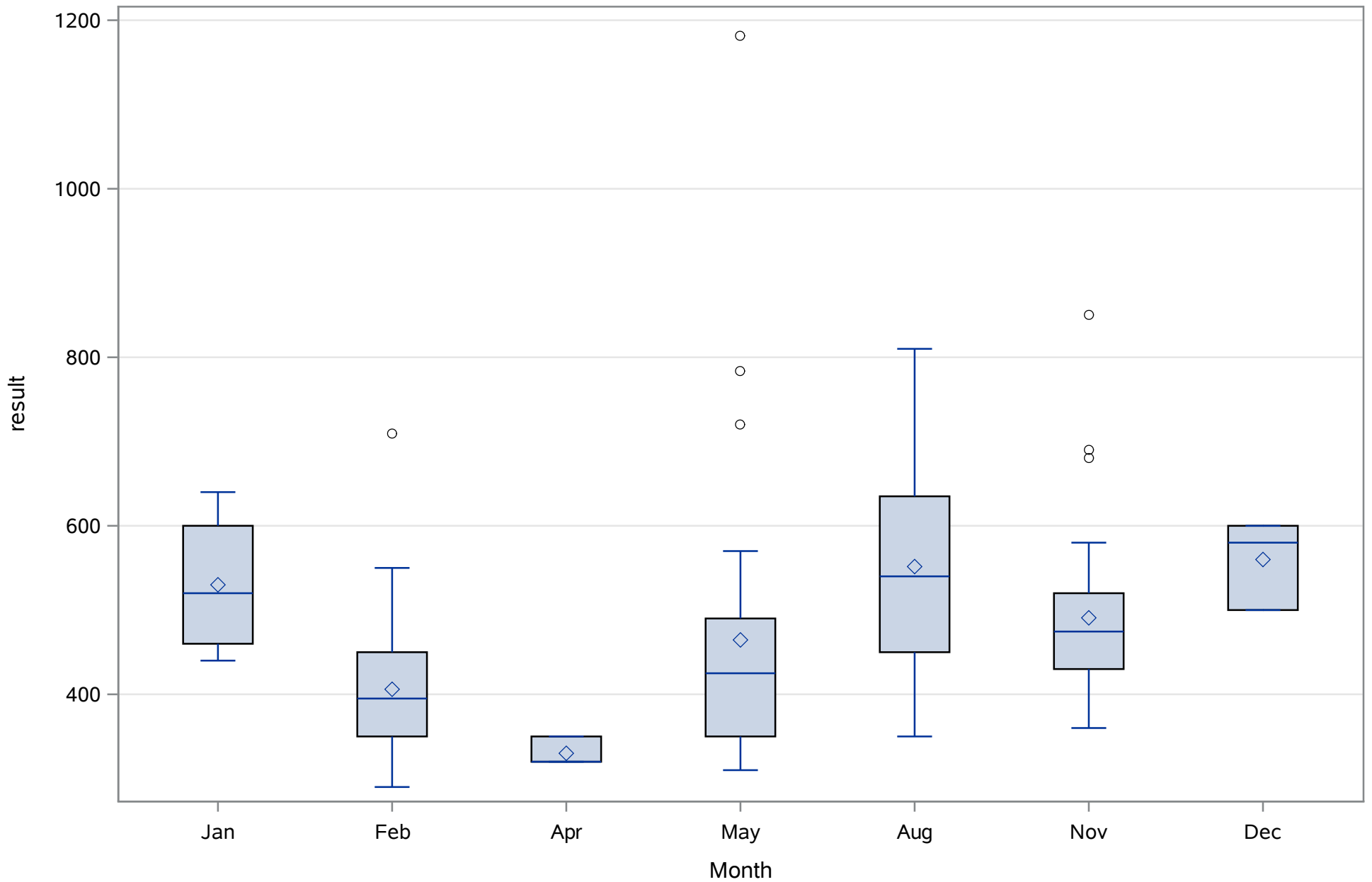
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
SRP_ugL



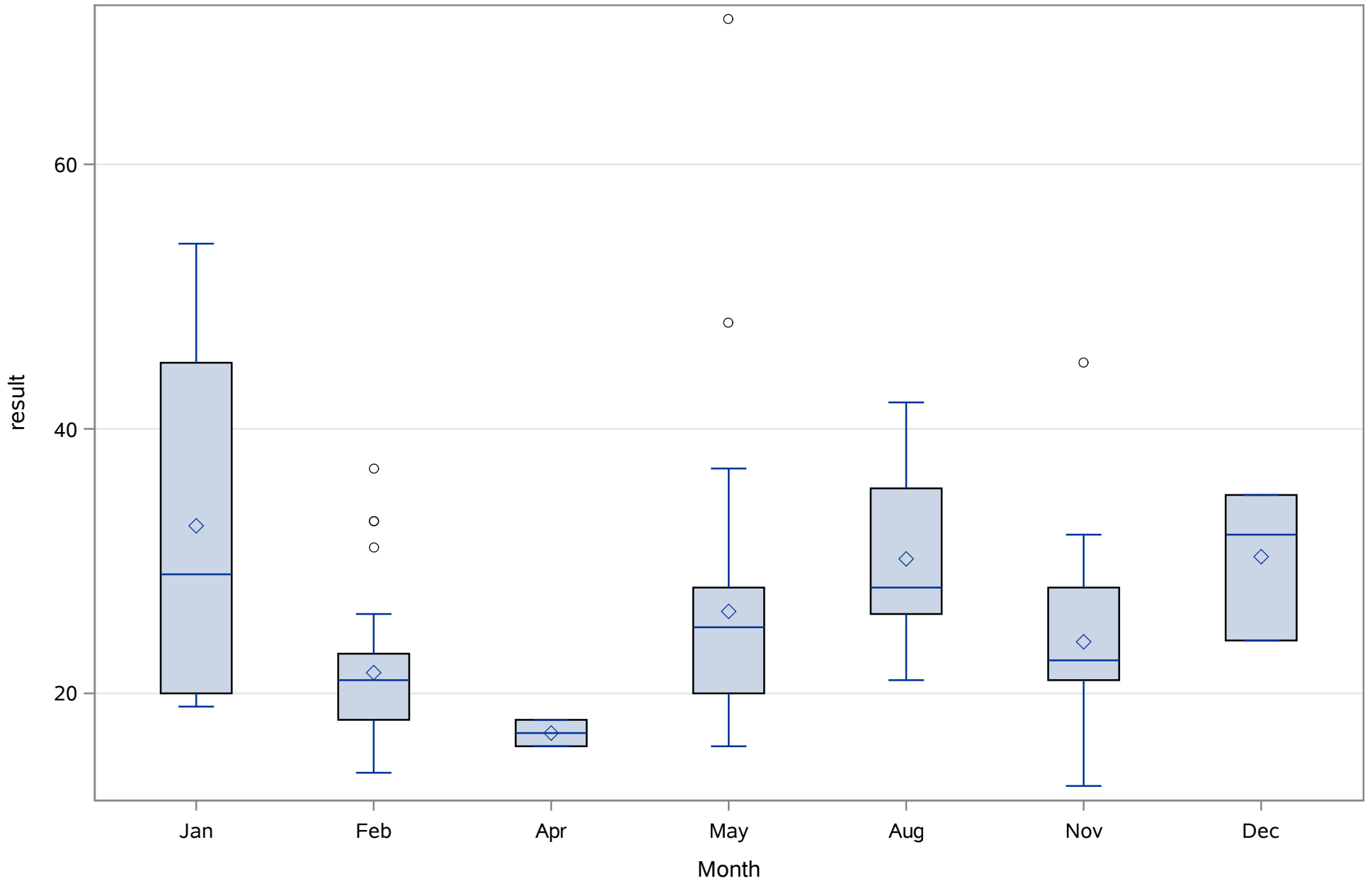
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TEMP_C



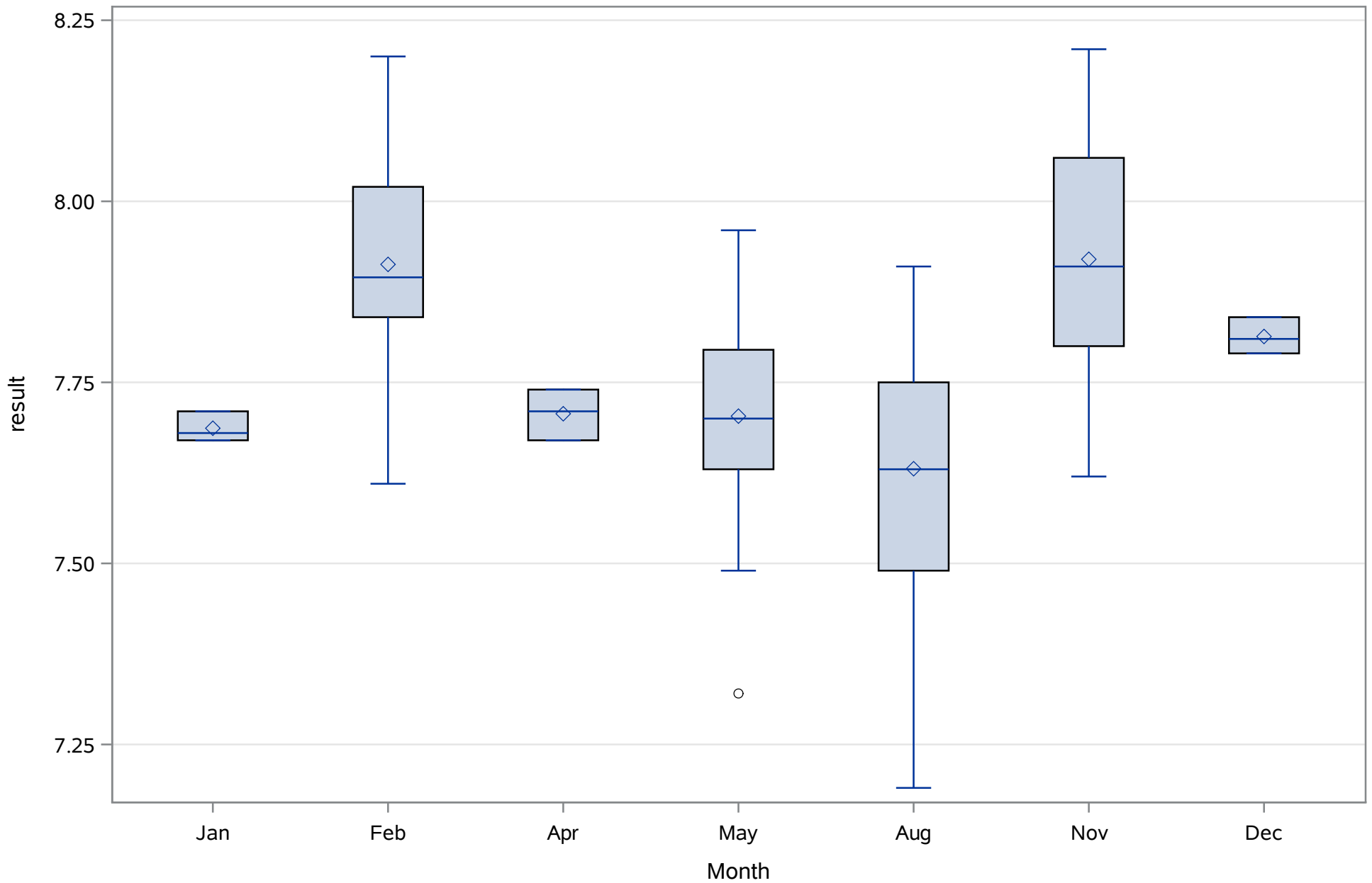
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TN_ugl



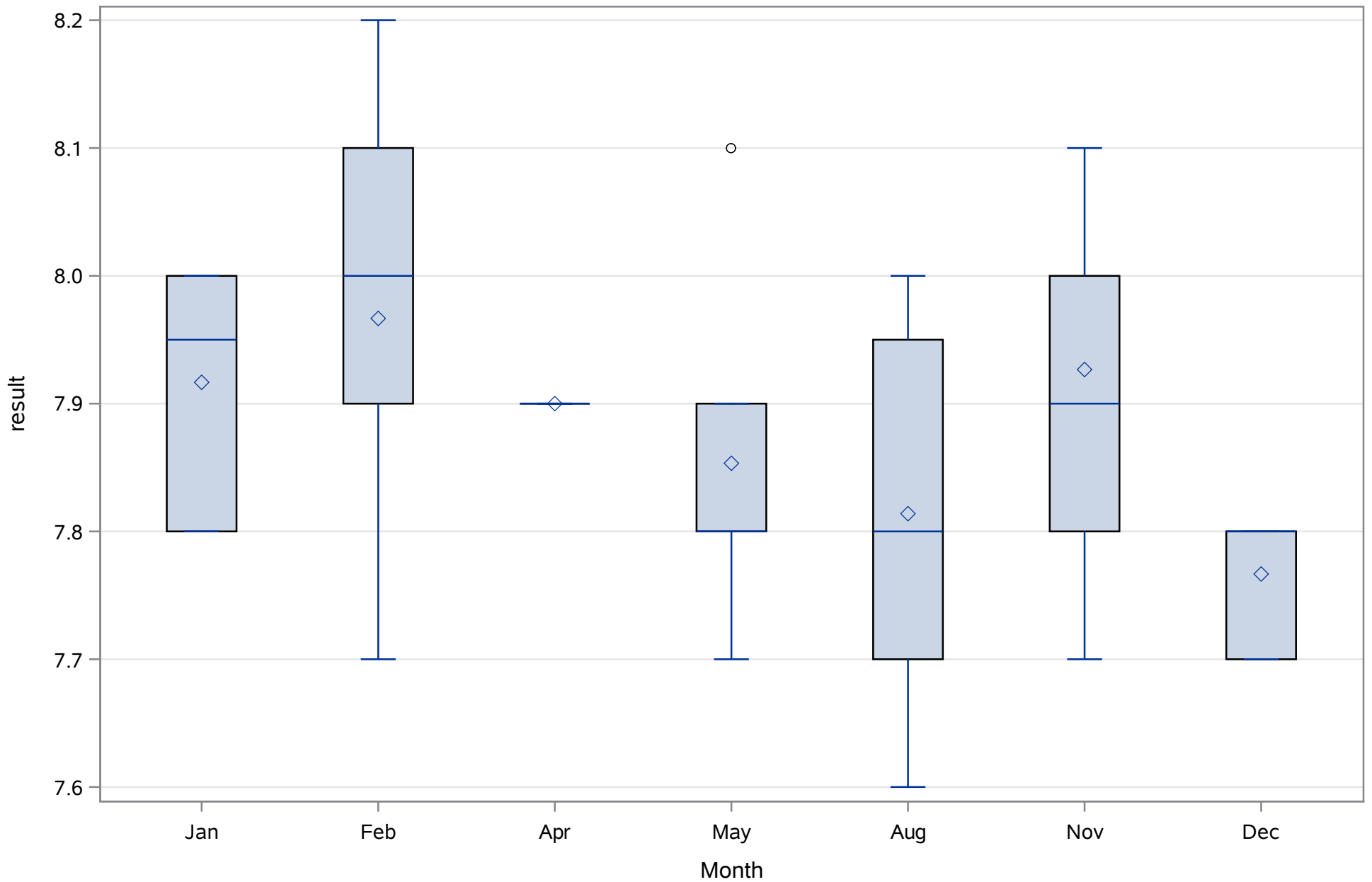
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 11
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	134	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	135	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	169.282609	Sum Observations	23361
Std Deviation	9.95610009	Variance	99.1239289
Skewness	-0.1883578	Kurtosis	0.08204361
Uncorrected SS	3968191	Corrected SS	13579.9783
Coeff Variation	5.88134845	Std Error Mean	0.84751952

Basic Statistical Measures			
Location		Variability	
Mean	169.2826	Std Deviation	9.95610
Median	170.0000	Variance	99.12393
Mode	170.0000	Range	47.00000
		Interquartile Range	11.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	199.7389	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	192
99%	192
95%	185
90%	180
75% Q3	175
50% Median	170
25% Q1	164
10%	155
5%	151
1%	145
0% Min	145

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
ALK_tot_mgL

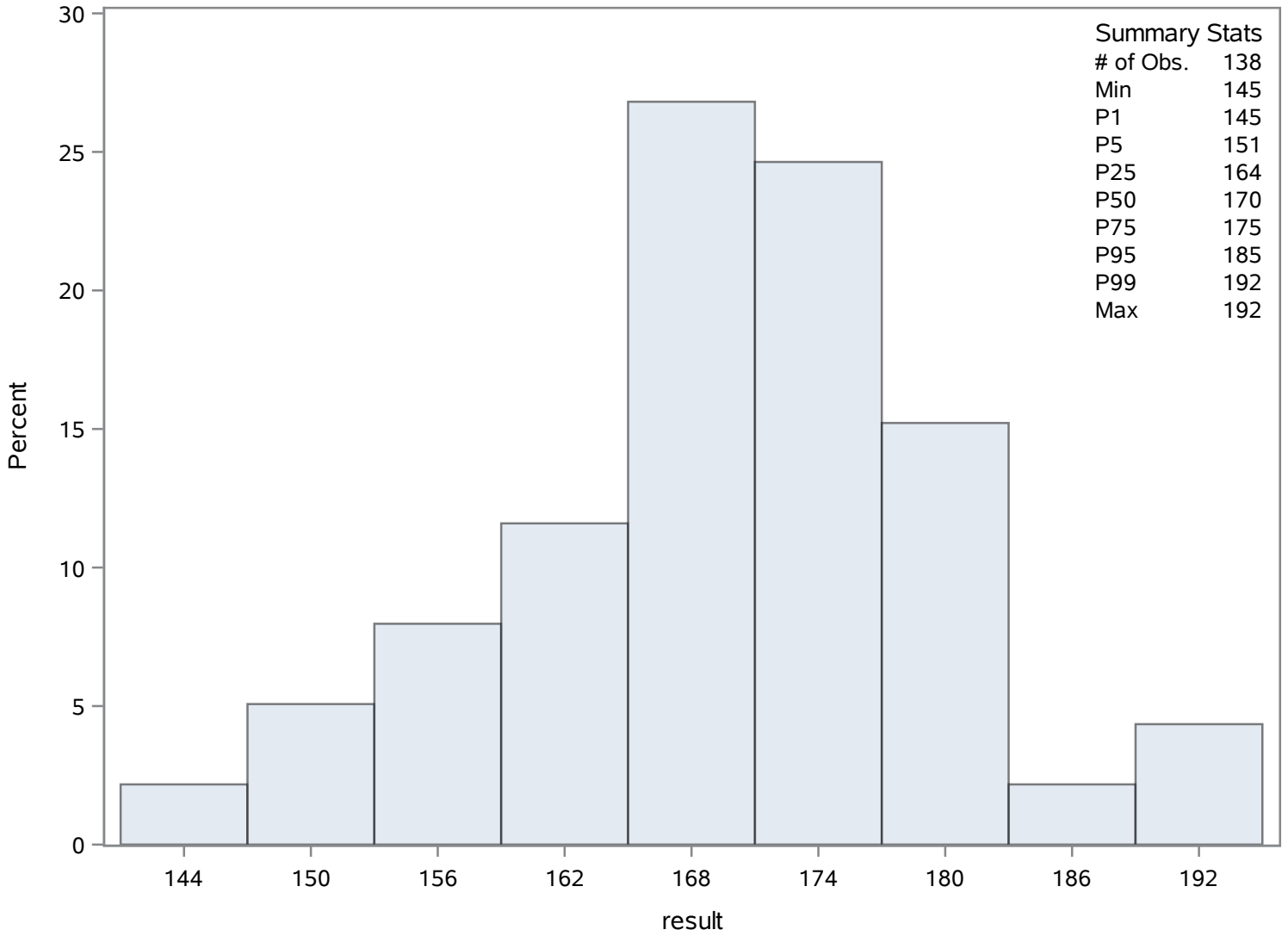
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
145	42	190	128
145	40	191	127
146	41	192	110
149	134	192	111
150	28	192	129

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.6295133	Sum Observations	638.872835
Std Deviation	3.24534962	Variance	10.5322941
Skewness	1.89417687	Kurtosis	4.01945806
Uncorrected SS	4400.59458	Corrected SS	1442.9243
Coeff Variation	70.1013132	Std Error Mean	0.27626251

Basic Statistical Measures			
Location		Variability	
Mean	4.629513	Std Deviation	3.24535
Median	3.517241	Variance	10.53229
Mode	3.300000	Range	16.90000
		Interquartile Range	3.21000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	16.75766	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18.00000
99%	17.29000
95%	11.40000
90%	8.60000
75% Q3	5.61000
50% Median	3.51724
25% Q1	2.40000
10%	1.80000
5%	1.40000
1%	1.10000
0% Min	1.10000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_Uncor_ugL

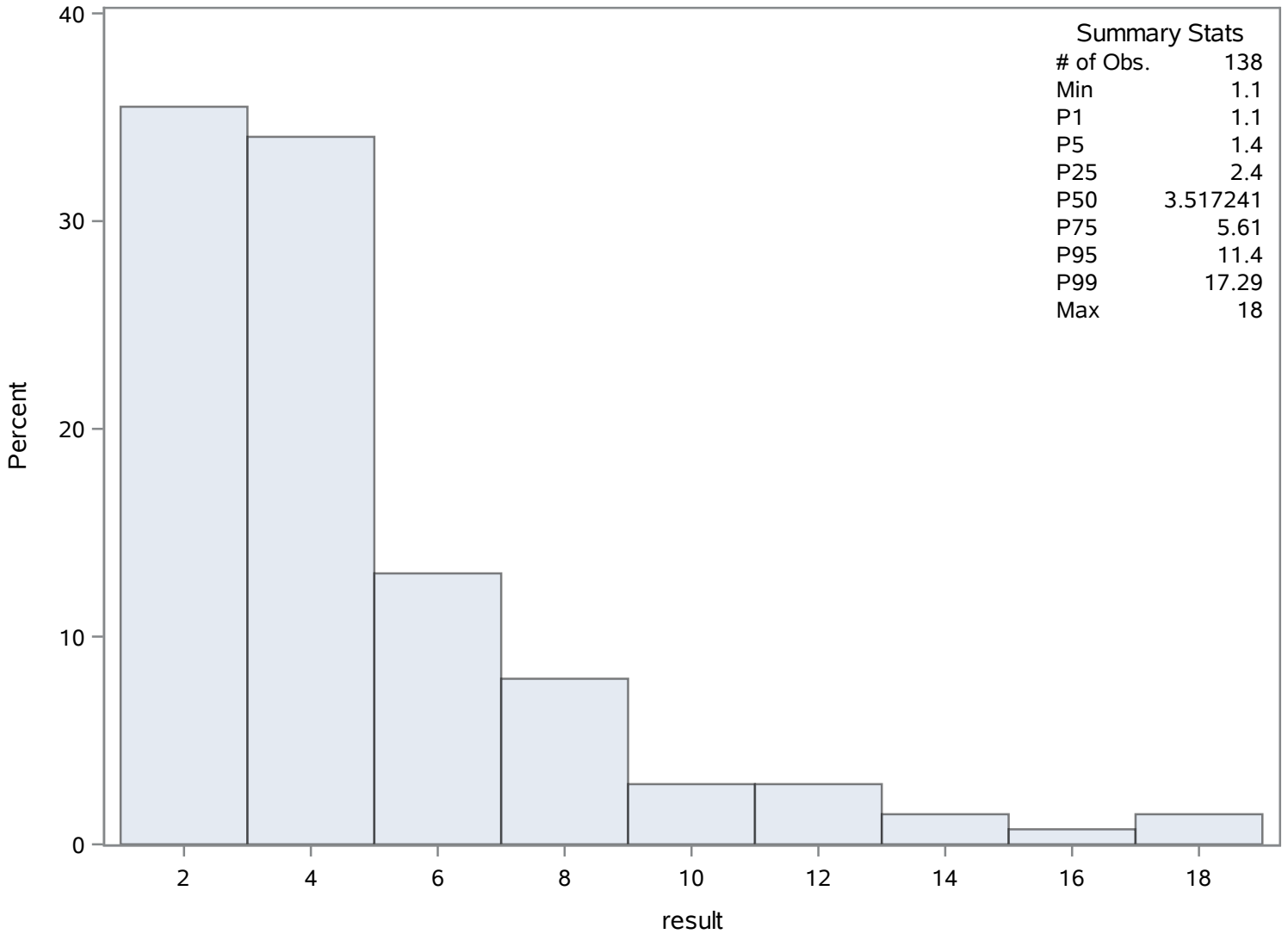
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.10	204	13.40	167
1.10	203	14.60	175
1.20	202	15.54	244
1.20	192	17.29	247
1.38	251	18.00	176

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	3.66547222	Sum Observations	263.914
Std Deviation	2.79672467	Variance	7.82166887
Skewness	2.29159841	Kurtosis	6.64995836
Uncorrected SS	1522.70793	Corrected SS	555.33849
Coeff Variation	76.2991642	Std Error Mean	0.32959716

Basic Statistical Measures			
Location		Variability	
Mean	3.665472	Std Deviation	2.79672
Median	2.900000	Variance	7.82167
Mode	1.117240	Range	14.86000
		Interquartile Range	2.95793

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.12107	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.75000
99%	15.75000
95%	10.05516
90%	6.59172
75% Q3	4.74793
50% Median	2.90000
25% Q1	1.79000
10%	1.23000
5%	1.11724

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

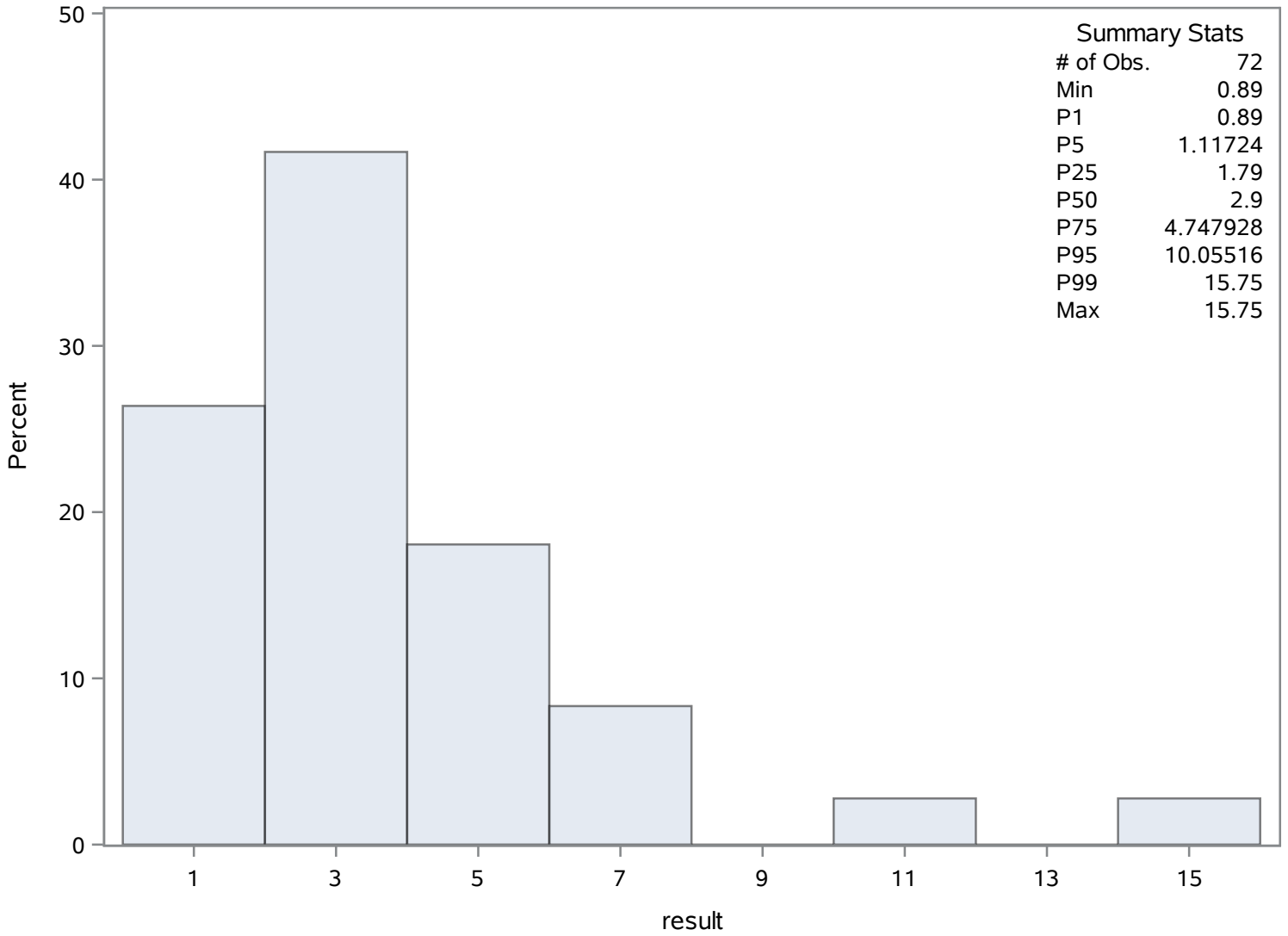
Quantiles (Definition 5)	
Level	Quantile
1%	0.89000
0% Min	0.89000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.89000	323	7.4900	318
1.01000	327	10.0552	300
1.11724	312	10.2800	317
1.11724	302	14.3000	316
1.11724	277	15.7500	319

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	26.1449275	Sum Observations	3608
Std Deviation	14.8292228	Variance	219.90585
Skewness	1.51742227	Kurtosis	3.18043261
Uncorrected SS	124458	Corrected SS	30127.1014
Coeff Variation	56.7193113	Std Error Mean	1.26234728

Basic Statistical Measures			
Location		Variability	
Mean	26.14493	Std Deviation	14.82922
Median	25.50000	Variance	219.90585
Mode	28.00000	Range	77.00000
		Interquartile Range	17.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.71136	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	85.0
99%	81.0
95%	57.0
90%	44.0
75% Q3	32.0
50% Median	25.5
25% Q1	15.0
10%	11.0
5%	9.0
1%	8.0
0% Min	8.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
COLOR_PtCo

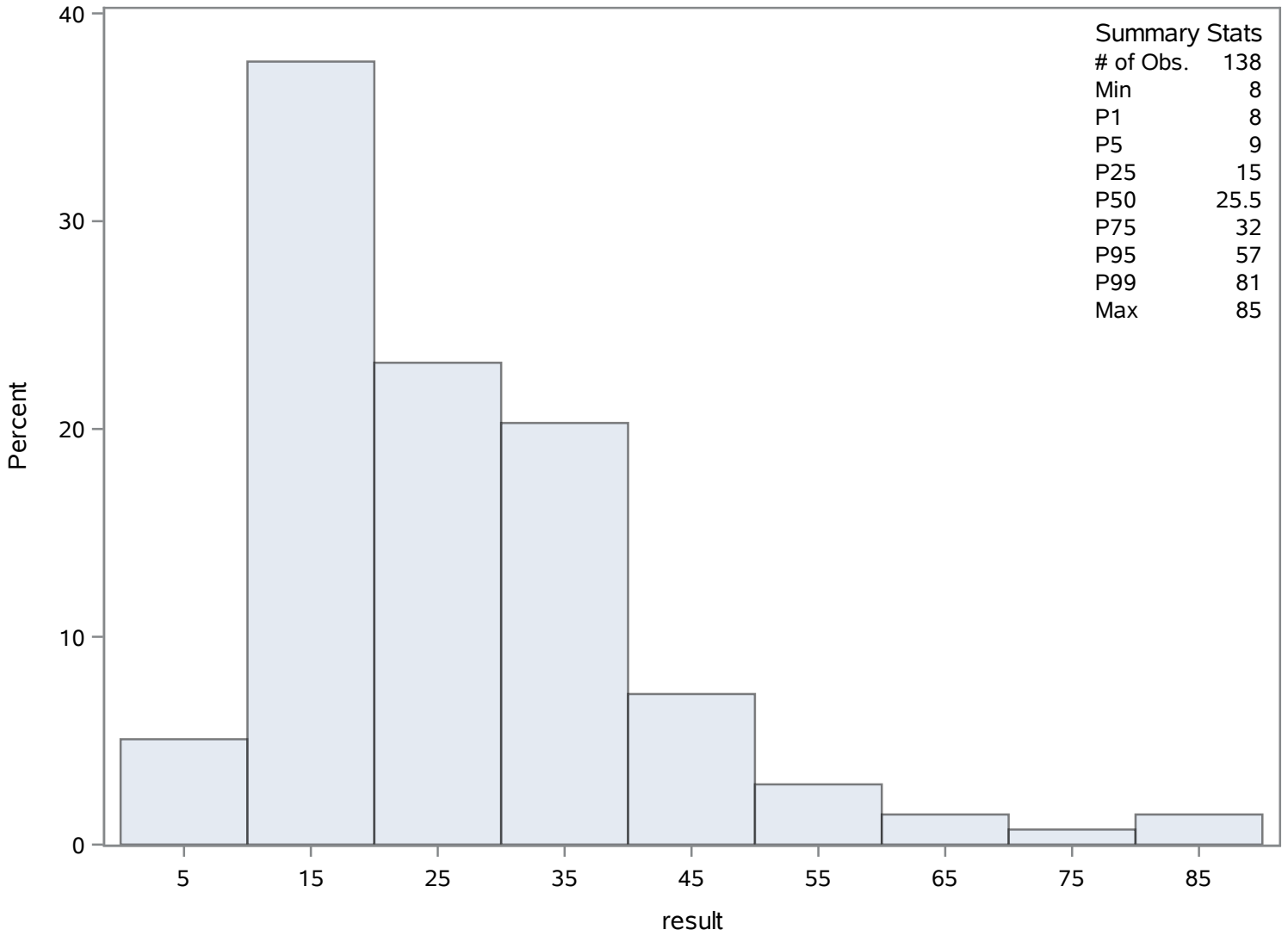
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8	414	62	481
8	368	68	482
8	367	79	435
9	452	81	434
9	426	85	433

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.37847826	Sum Observations	880.23
Std Deviation	1.67043502	Variance	2.79035314
Skewness	0.04947858	Kurtosis	-0.3849358
Uncorrected SS	5996.8063	Corrected SS	382.27838
Coeff Variation	26.1886135	Std Error Mean	0.14219687

Basic Statistical Measures			
Location		Variability	
Mean	6.378478	Std Deviation	1.67044
Median	6.585000	Variance	2.79035
Mode	4.800000	Range	8.20000
		Interquartile Range	2.30000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	44.85667	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.100
99%	9.630
95%	9.290
90%	8.410
75% Q3	7.480
50% Median	6.585
25% Q1	5.180
10%	4.050
5%	3.600
1%	3.000
0% Min	2.900

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
DO_mgL

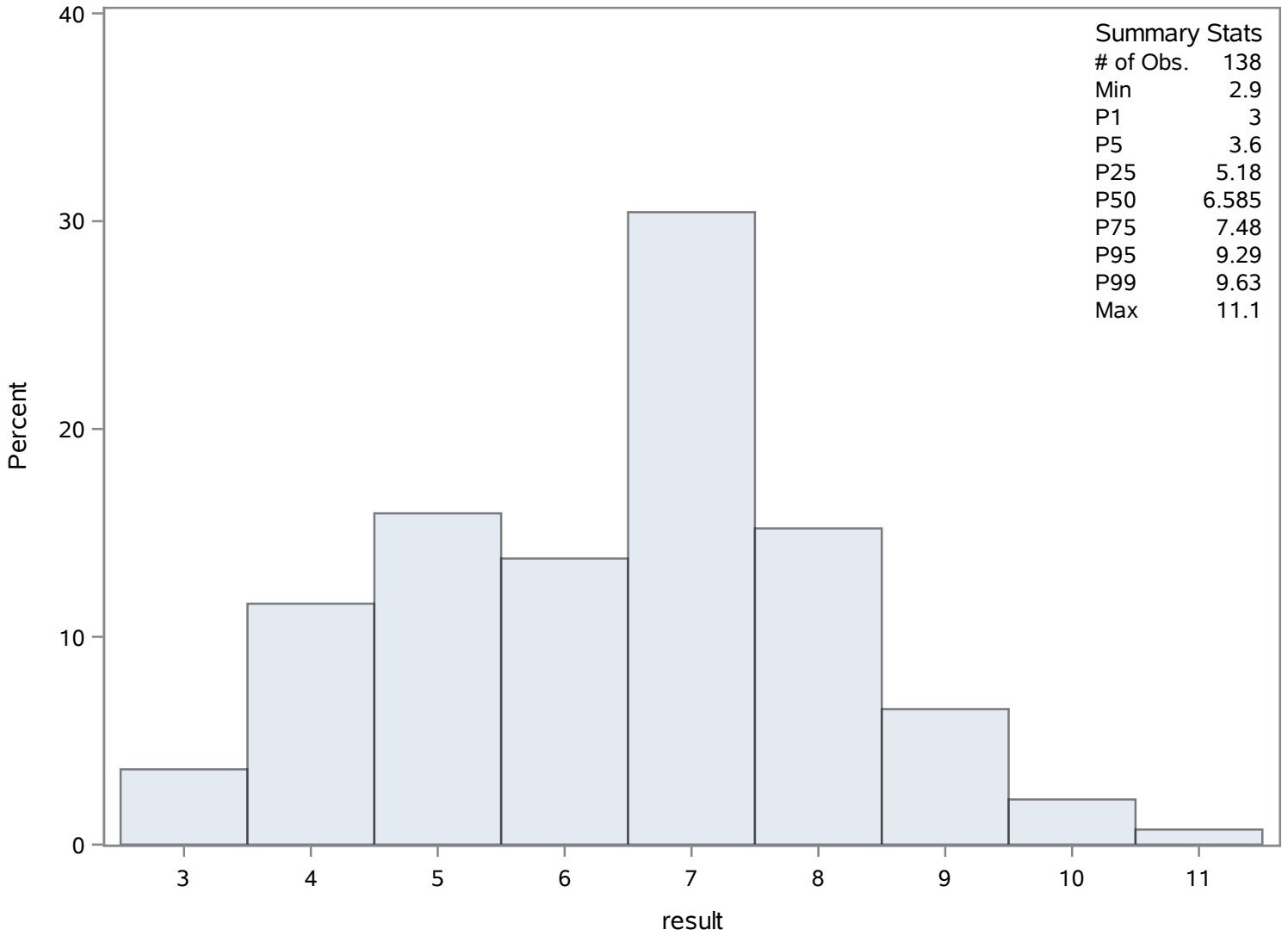
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.9	512	9.40	493
3.0	511	9.50	494
3.1	513	9.59	613
3.1	501	9.63	614
3.1	500	11.10	495

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	30.9620438	Sum Observations	4241.8
Std Deviation	16.4461292	Variance	270.475166
Skewness	0.96636391	Kurtosis	1.65108974
Uncorrected SS	168119.42	Corrected SS	36784.6226
Coeff Variation	53.1170659	Std Error Mean	1.40508764

Basic Statistical Measures			
Location		Variability	
Mean	30.96204	Std Deviation	16.44613
Median	28.00000	Variance	270.47517
Mode	17.00000	Range	88.00000
		Interquartile Range	23.00000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	22.03567	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	89.0
99%	89.0
95%	56.0
90%	48.0
75% Q3	41.0
50% Median	28.0
25% Q1	18.0
10%	12.0
5%	8.3

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NH4_ugl

The UNIVARIATE Procedure
Variable: result

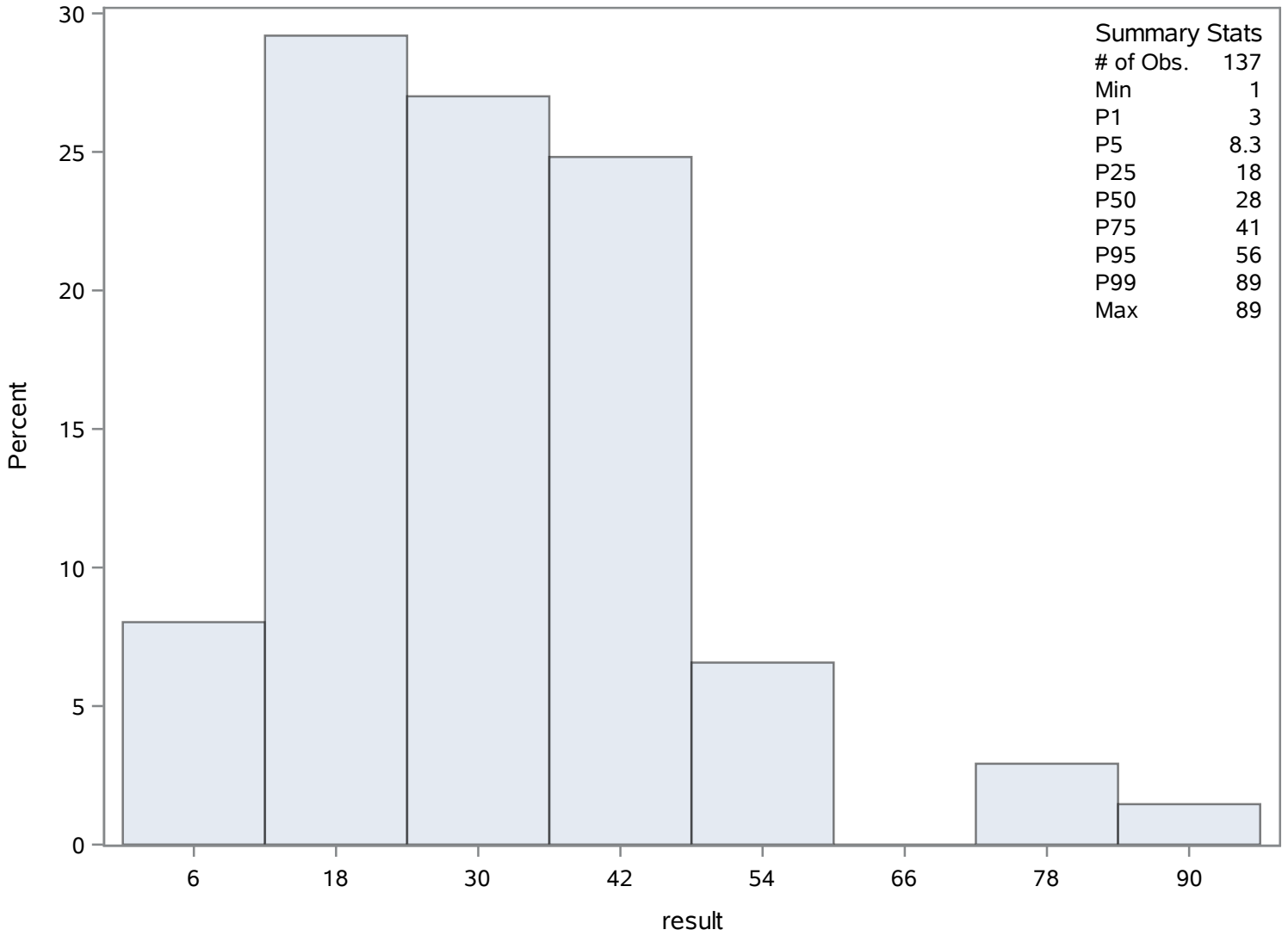
Quantiles (Definition 5)	
Level	Quantile
1%	3.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	641	74	758
3.0	694	74	760
4.0	667	76	757
5.0	668	89	759
5.8	701	89	761

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	109.928261	Sum Observations	15170.1
Std Deviation	82.7468296	Variance	6847.03781
Skewness	0.90219121	Kurtosis	0.49135563
Uncorrected SS	2605666.89	Corrected SS	938044.18
Coeff Variation	75.2734819	Std Error Mean	7.04387791

Basic Statistical Measures			
Location		Variability	
Mean	109.9283	Std Deviation	82.74683
Median	105.0000	Variance	6847
Mode	12.0000	Range	346.00000
		Interquartile Range	111.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.60621	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	353
99%	322
95%	313
90%	241
75% Q3	145
50% Median	105
25% Q1	34
10%	13
5%	10
1%	8
0% Min	7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NO3_ugL

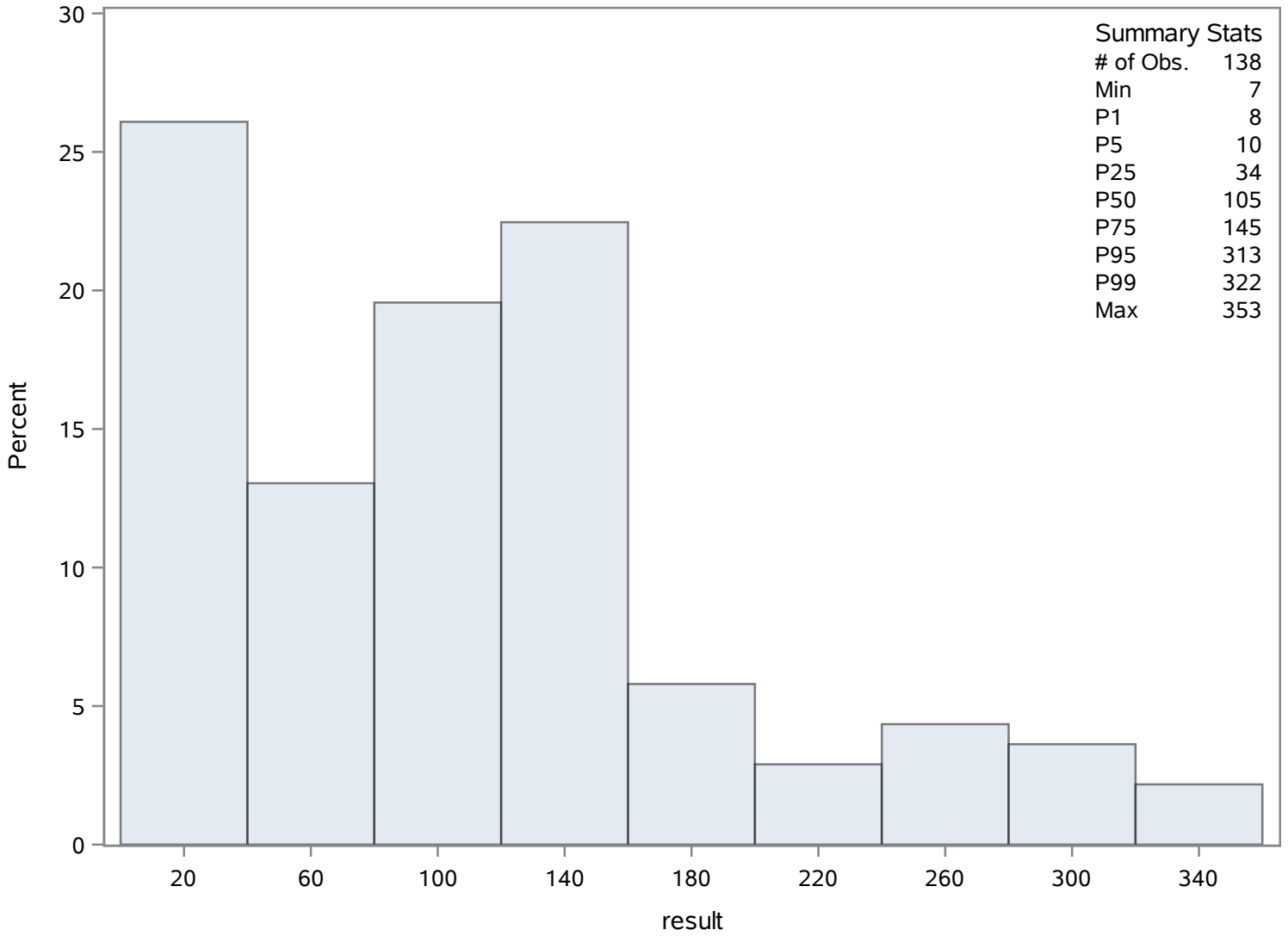
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	773	315	896
8	772	315	899
8	771	322	895
9	885	322	898
9	882	353	815

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.12144928	Sum Observations	982.76
Std Deviation	4.04255855	Variance	16.3422796
Skewness	1.26531069	Kurtosis	1.29410237
Uncorrected SS	9237.5678	Corrected SS	2238.89231
Coeff Variation	56.765953	Std Error Mean	0.34412544

Basic Statistical Measures			
Location		Variability	
Mean	7.121449	Std Deviation	4.04256
Median	6.385000	Variance	16.34228
Mode	3.100000	Range	18.47000
		Interquartile Range	4.68000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	20.69434	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	20.430
99%	18.840
95%	16.320
90%	14.000
75% Q3	8.480
50% Median	6.385
25% Q1	3.800
10%	2.940
5%	2.540
1%	1.980
0% Min	1.960

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SAL_Perc

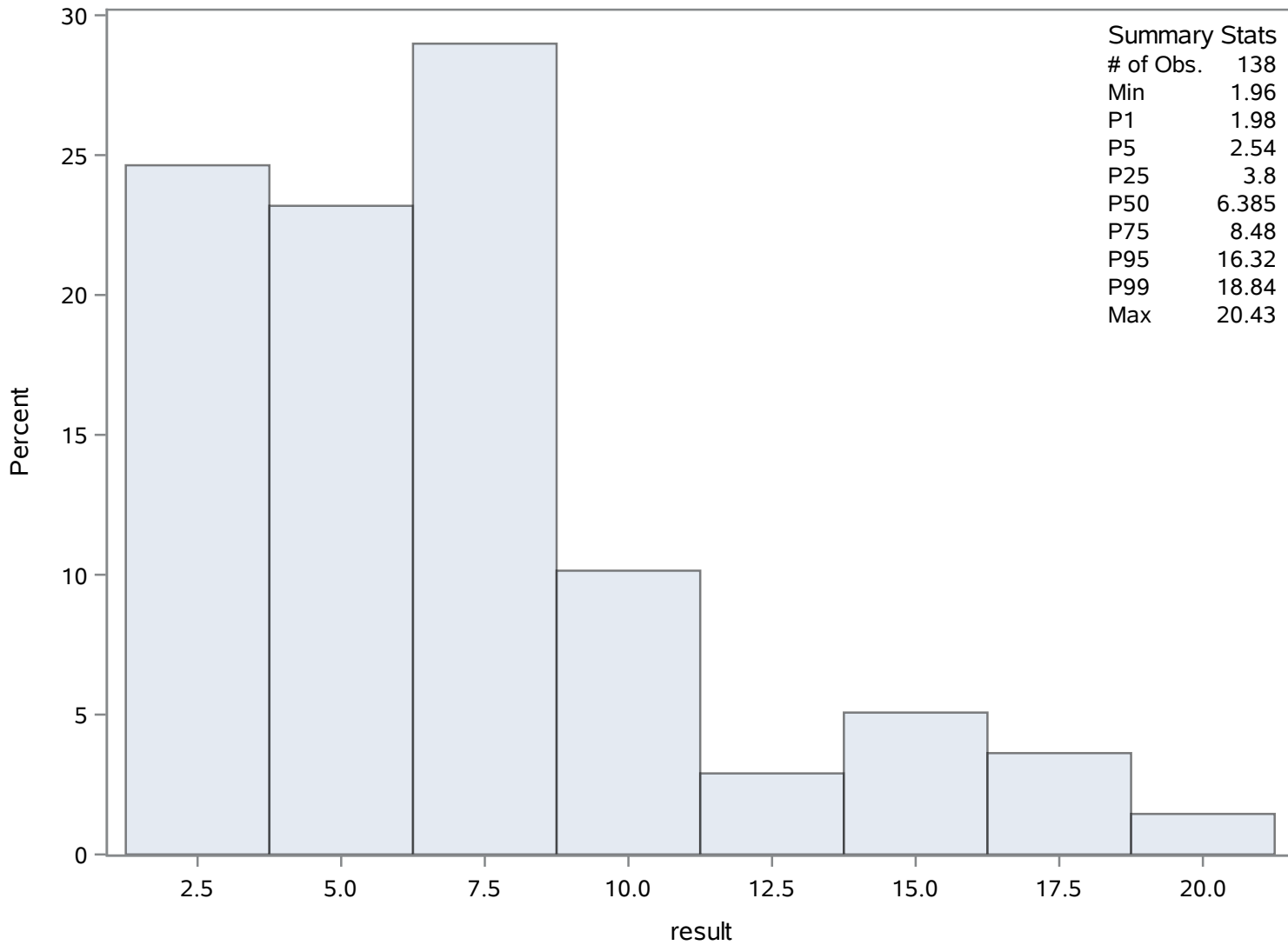
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.96	936	17.20	981
1.98	937	17.97	982
1.99	938	18.31	983
2.34	965	18.84	1012
2.40	905	20.43	1013

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	12.3386594	Sum Observations	1702.735
Std Deviation	6.55267051	Variance	42.9374908
Skewness	1.14287627	Kurtosis	0.94579884
Uncorrected SS	26891.9035	Corrected SS	5882.43623
Coeff Variation	53.1068269	Std Error Mean	0.55780036

Basic Statistical Measures			
Location		Variability	
Mean	12.33866	Std Deviation	6.55267
Median	11.23000	Variance	42.93749
Mode	4.71000	Range	28.87000
		Interquartile Range	7.62000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	22.12021	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.59
99%	30.89
95%	26.61
90%	23.33
75% Q3	14.58
50% Median	11.23
25% Q1	6.96
10%	5.42
5%	4.61

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

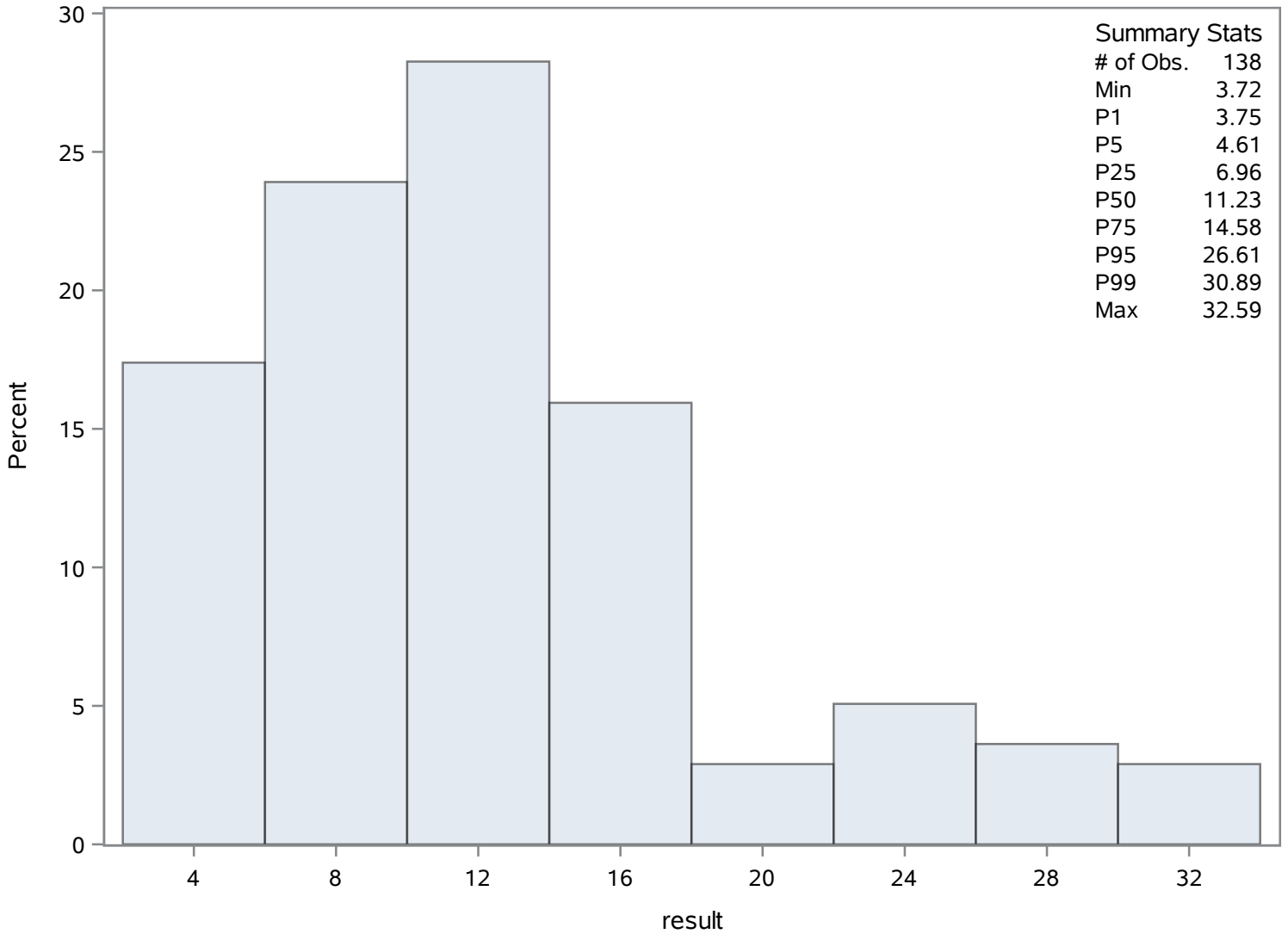
Quantiles (Definition 5)	
Level	Quantile
1%	3.75
0% Min	3.72

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.720	1074	28.84	1120
3.750	1075	30.03	1121
3.790	1076	30.32	1150
4.257	1043	30.89	1119
4.340	1070	32.59	1151

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	134	Sum Weights	134
Mean	6.47014925	Sum Observations	867
Std Deviation	4.23322039	Variance	17.9201549
Skewness	0.82157311	Kurtosis	-0.176497
Uncorrected SS	7993	Corrected SS	2383.3806
Coeff Variation	65.4269357	Std Error Mean	0.36569454

Basic Statistical Measures			
Location		Variability	
Mean	6.470149	Std Deviation	4.23322
Median	5.000000	Variance	17.92015
Mode	2.000000	Range	16.00000
		Interquartile Range	7.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.69277	Pr > t 	<.0001
Sign	M	67	Pr >= M 	<.0001
Signed Rank	S	4522.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	17
99%	17
95%	15
90%	13
75% Q3	10
50% Median	5
25% Q1	3
10%	2
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SRP_ugL

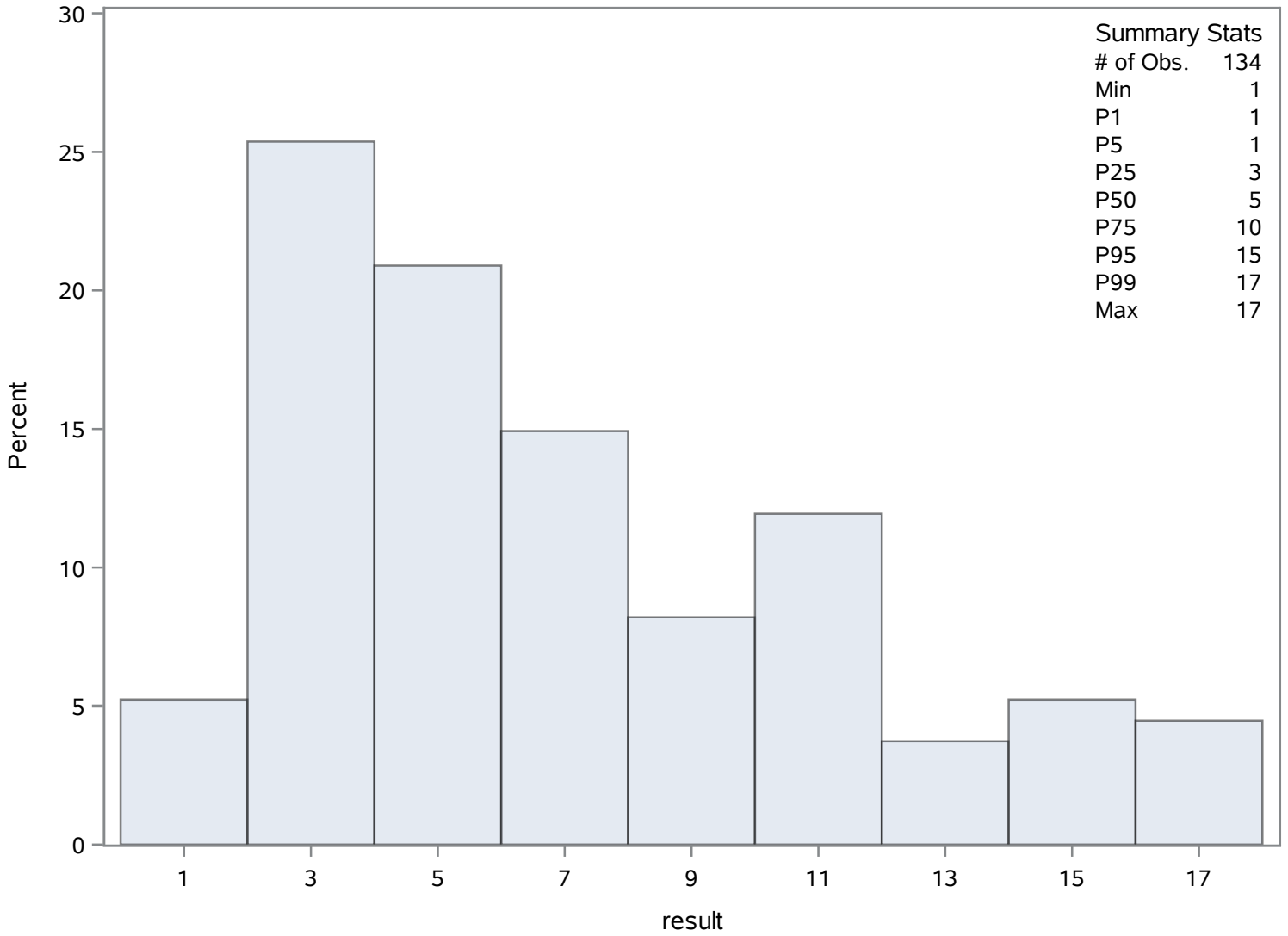
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1240	16	1307
1	1238	16	1309
1	1214	17	1304
1	1200	17	1305
1	1184	17	1308

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.5221014	Sum Observations	3246.05
Std Deviation	5.03268724	Variance	25.3279408
Skewness	0.01338507	Kurtosis	-1.2364113
Uncorrected SS	79823.8453	Corrected SS	3469.92789
Coeff Variation	21.3955681	Std Error Mean	0.42841079

Basic Statistical Measures			
Location		Variability	
Mean	23.52210	Std Deviation	5.03269
Median	22.03000	Variance	25.32794
Mode	21.00000	Range	18.27000
		Interquartile Range	8.60000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	54.90548	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.66
99%	32.03
95%	30.85
90%	29.80
75% Q3	28.47
50% Median	22.03
25% Q1	19.87
10%	17.46
5%	14.86

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TEMP_C

The UNIVARIATE Procedure
Variable: result

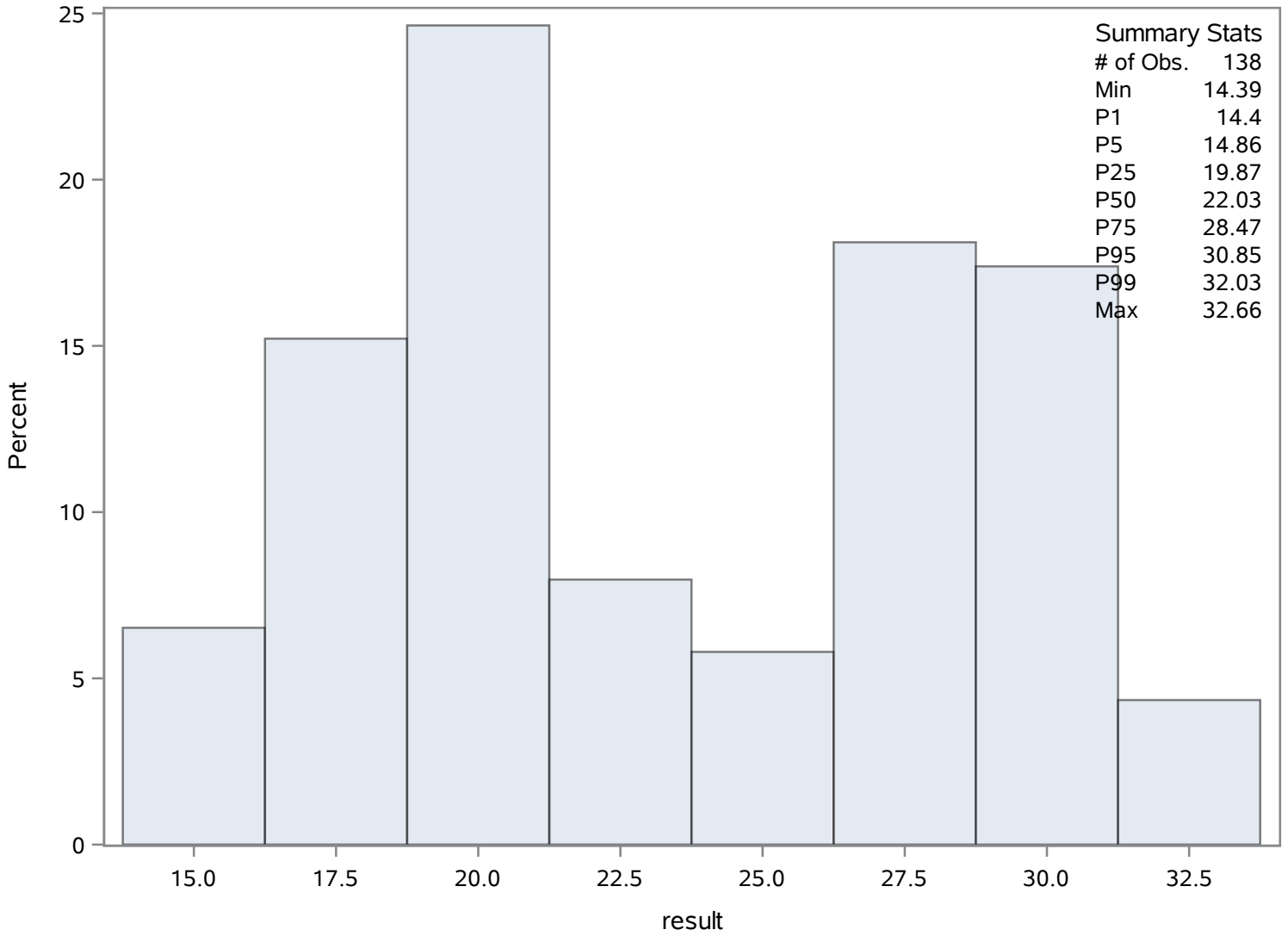
Quantiles (Definition 5)	
Level	Quantile
1%	14.40
0% Min	14.39

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
14.39	1425	31.63	1432
14.40	1337	31.75	1395
14.54	1424	31.84	1430
14.59	1426	32.03	1396
14.60	1339	32.66	1394

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	454.177778	Sum Observations	61314
Std Deviation	118.517199	Variance	14046.3264
Skewness	0.88951727	Kurtosis	1.54823417
Uncorrected SS	29729664	Corrected SS	1882207.73
Coeff Variation	26.0948916	Std Error Mean	10.2003364

Basic Statistical Measures			
Location		Variability	
Mean	454.1778	Std Deviation	118.51720
Median	450.0000	Variance	14046
Mode	340.0000	Range	690.00000
		Interquartile Range	160.00000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	44.52576	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	930
99%	800
95%	678
90%	611
75% Q3	520
50% Median	450
25% Q1	360
10%	310
5%	290

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TN_ugl

The UNIVARIATE Procedure
Variable: result

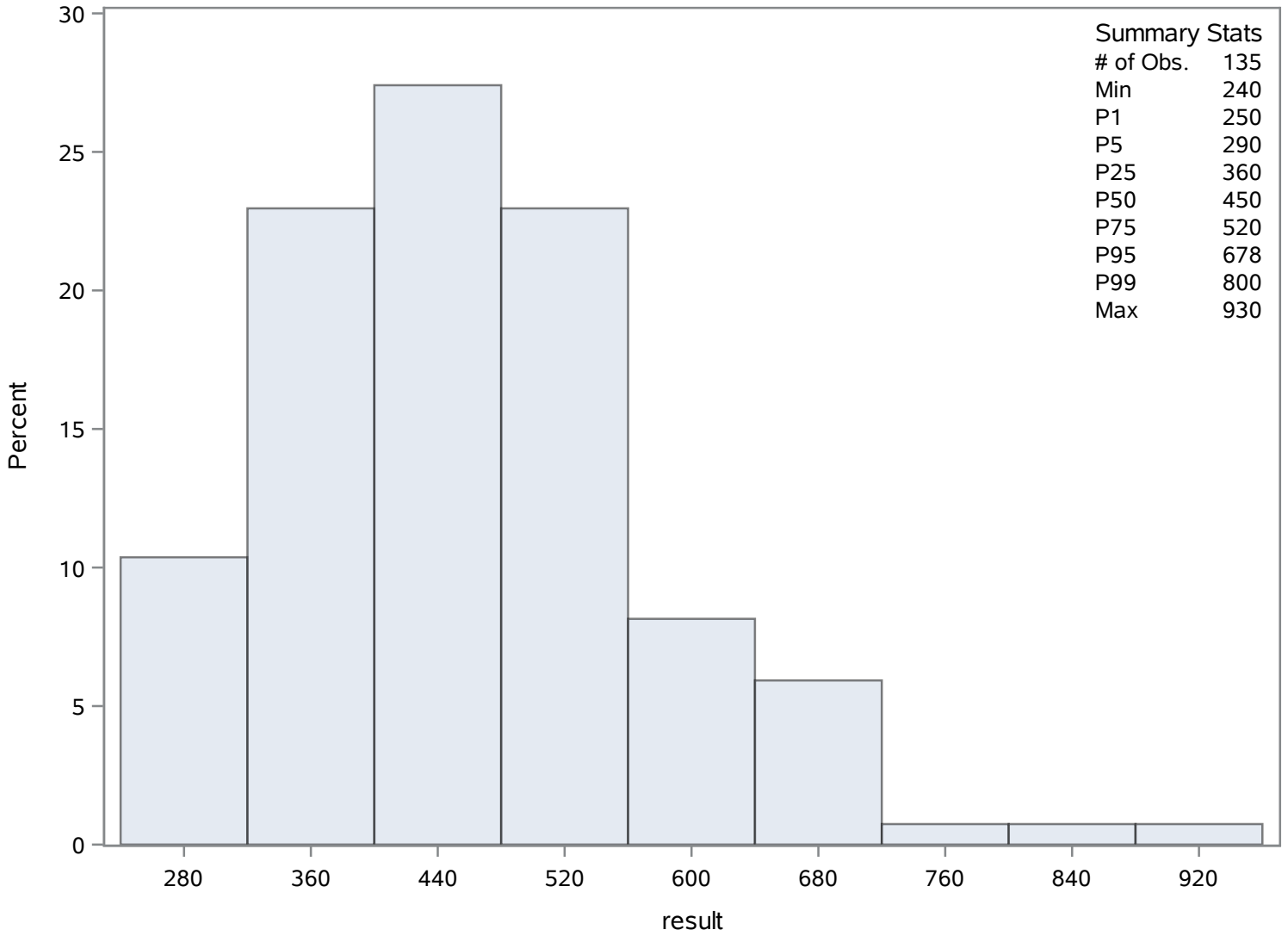
Quantiles (Definition 5)	
Level	Quantile
1%	250
0% Min	240

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
240	1455	696	1551
250	1511	700	1566
260	1513	790	1531
270	1467	800	1529
280	1512	930	1530

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	22.3985507	Sum Observations	3091
Std Deviation	6.7234635	Variance	45.2049614
Skewness	0.91948461	Kurtosis	1.03920618
Uncorrected SS	75427	Corrected SS	6193.07971
Coeff Variation	30.0174042	Std Error Mean	0.57233922

Basic Statistical Measures			
Location		Variability	
Mean	22.39855	Std Deviation	6.72346
Median	21.00000	Variance	45.20496
Mode	17.00000	Range	33.00000
		Interquartile Range	9.00000

Note: The mode displayed is the smallest of 3 modes with a count of 11.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	39.1351	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	44
99%	43
95%	35
90%	31
75% Q3	27
50% Median	21
25% Q1	18
10%	15
5%	13

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TP_ugl

The UNIVARIATE Procedure
Variable: result

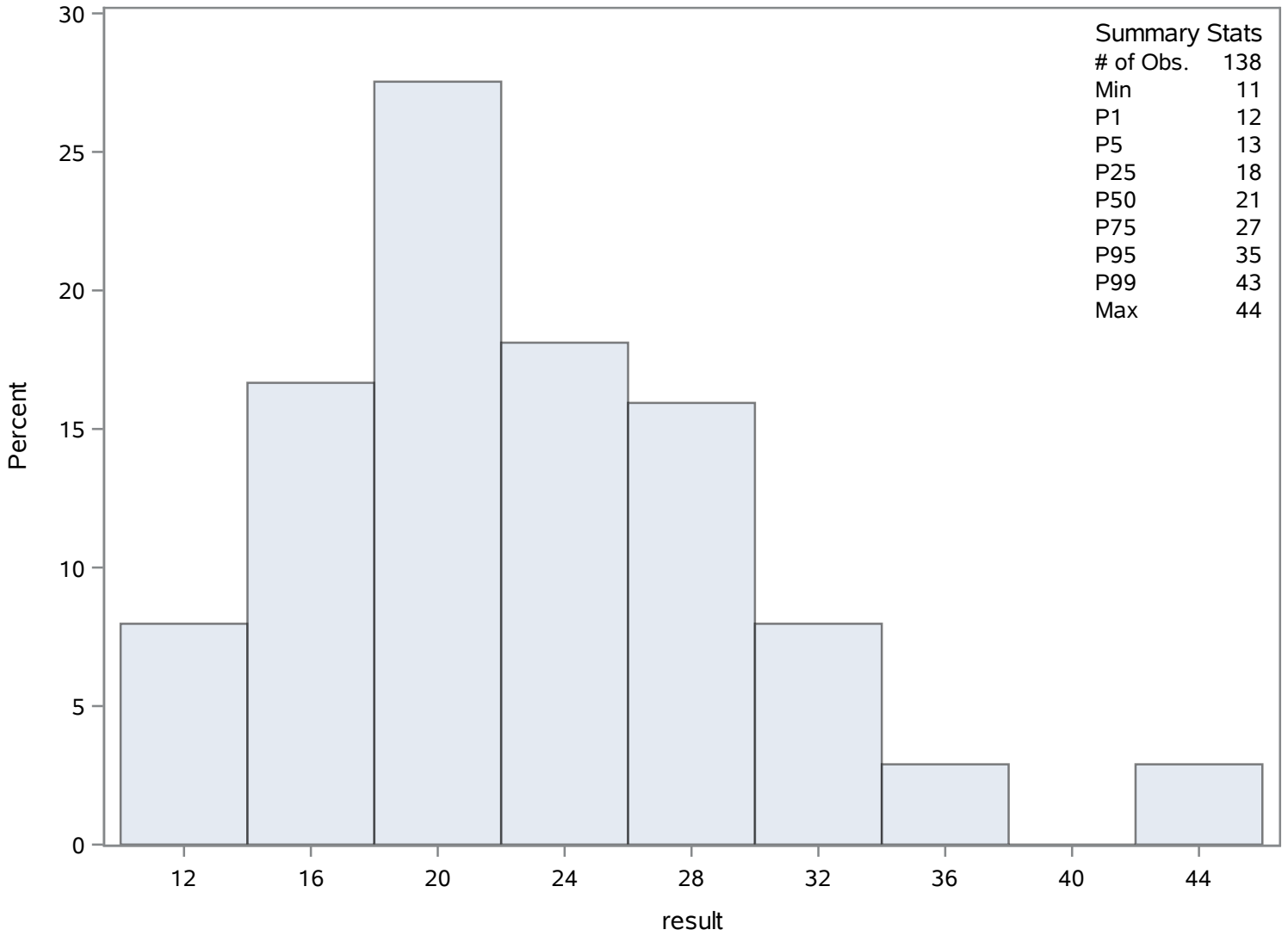
Quantiles (Definition 5)	
Level	Quantile
1%	12
0% Min	11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11	1623	36	1716
12	1651	43	1688
12	1591	43	1690
13	1711	43	1691
13	1710	44	1689

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.79212963	Sum Observations	841.55
Std Deviation	0.20276155	Variance	0.04111224
Skewness	0.15212271	Kurtosis	-0.6878027
Uncorrected SS	6561.8657	Corrected SS	4.39901019
Coeff Variation	2.60213261	Std Error Mean	0.01951074

Basic Statistical Measures			
Location		Variability	
Mean	7.792130	Std Deviation	0.20276
Median	7.750000	Variance	0.04111
Mode	7.700000	Range	0.83000
		Interquartile Range	0.27000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	399.3764	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.18
99%	8.16
95%	8.14
90%	8.11
75% Q3	7.92
50% Median	7.75
25% Q1	7.65
10%	7.54
5%	7.46
1%	7.40
0% Min	7.35

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Field

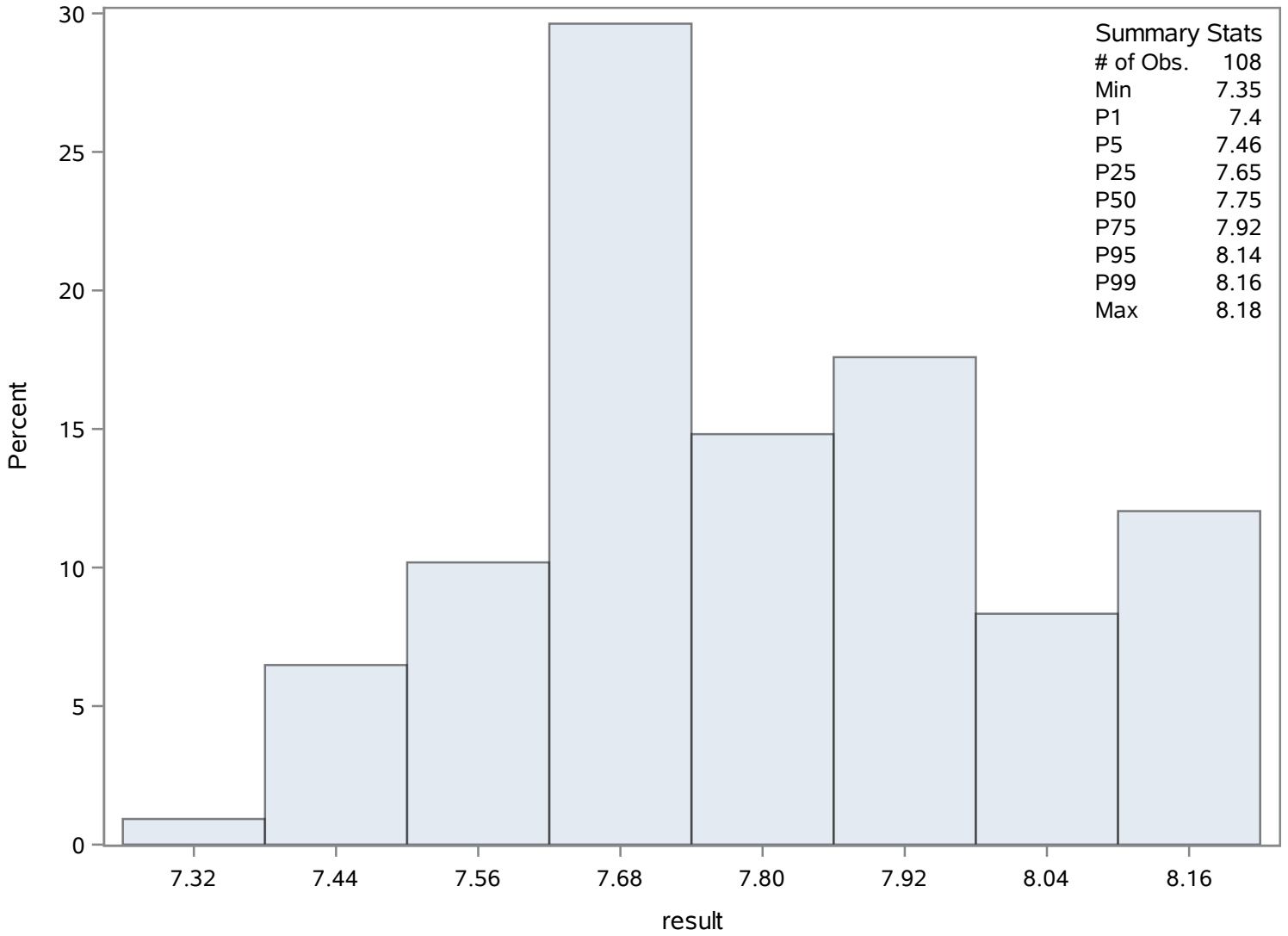
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.35	1809	8.14	1771
7.40	1813	8.14	1779
7.40	1812	8.15	1778
7.41	1753	8.16	1769
7.46	1816	8.18	1780

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.89130435	Sum Observations	1089
Std Deviation	0.13039987	Variance	0.01700413
Skewness	0.24338245	Kurtosis	0.1845883
Uncorrected SS	8595.96	Corrected SS	2.32956522
Coeff Variation	1.65245012	Std Error Mean	0.01110037

Basic Statistical Measures			
Location		Variability	
Mean	7.891304	Std Deviation	0.13040
Median	7.900000	Variance	0.01700
Mode	7.800000	Range	0.70000
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	710.9044	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.3
99%	8.2
95%	8.1
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.8
5%	7.7
1%	7.6
0% Min	7.6

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Lab

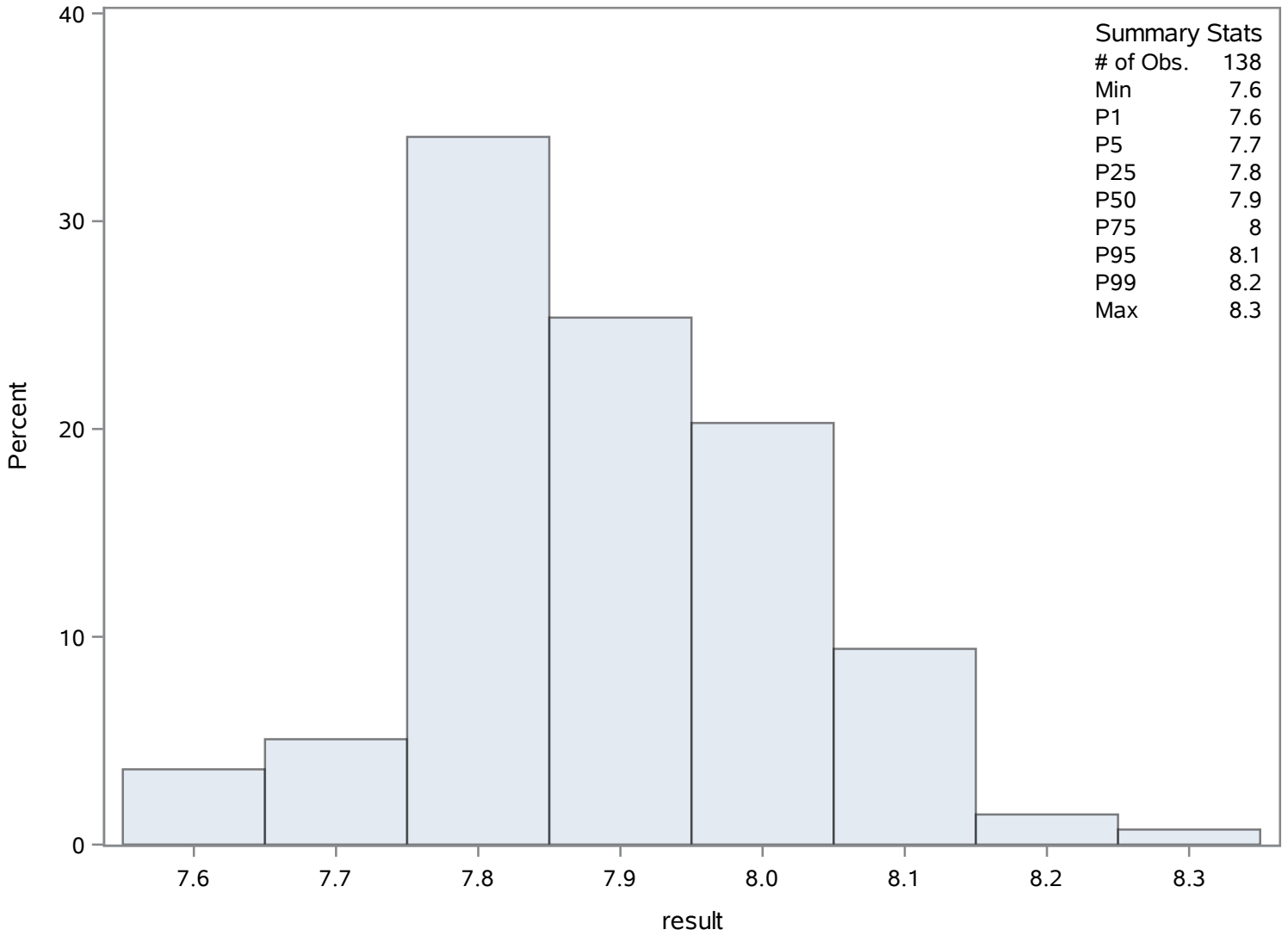
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.6	1962	8.1	1942
7.6	1961	8.1	1957
7.6	1855	8.2	1955
7.6	1854	8.2	1956
7.6	1853	8.3	1837

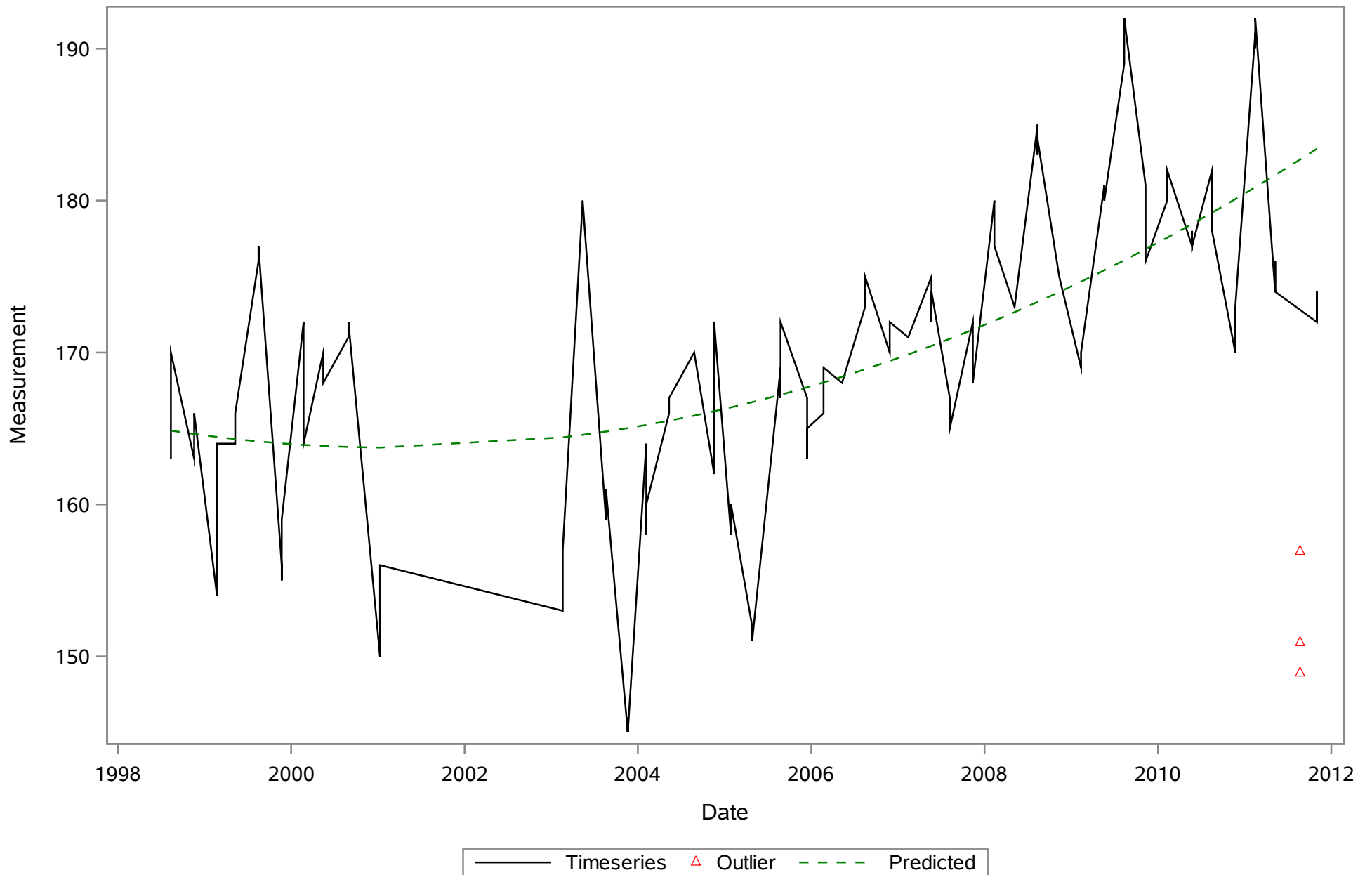
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Lab

The UNIVARIATE Procedure

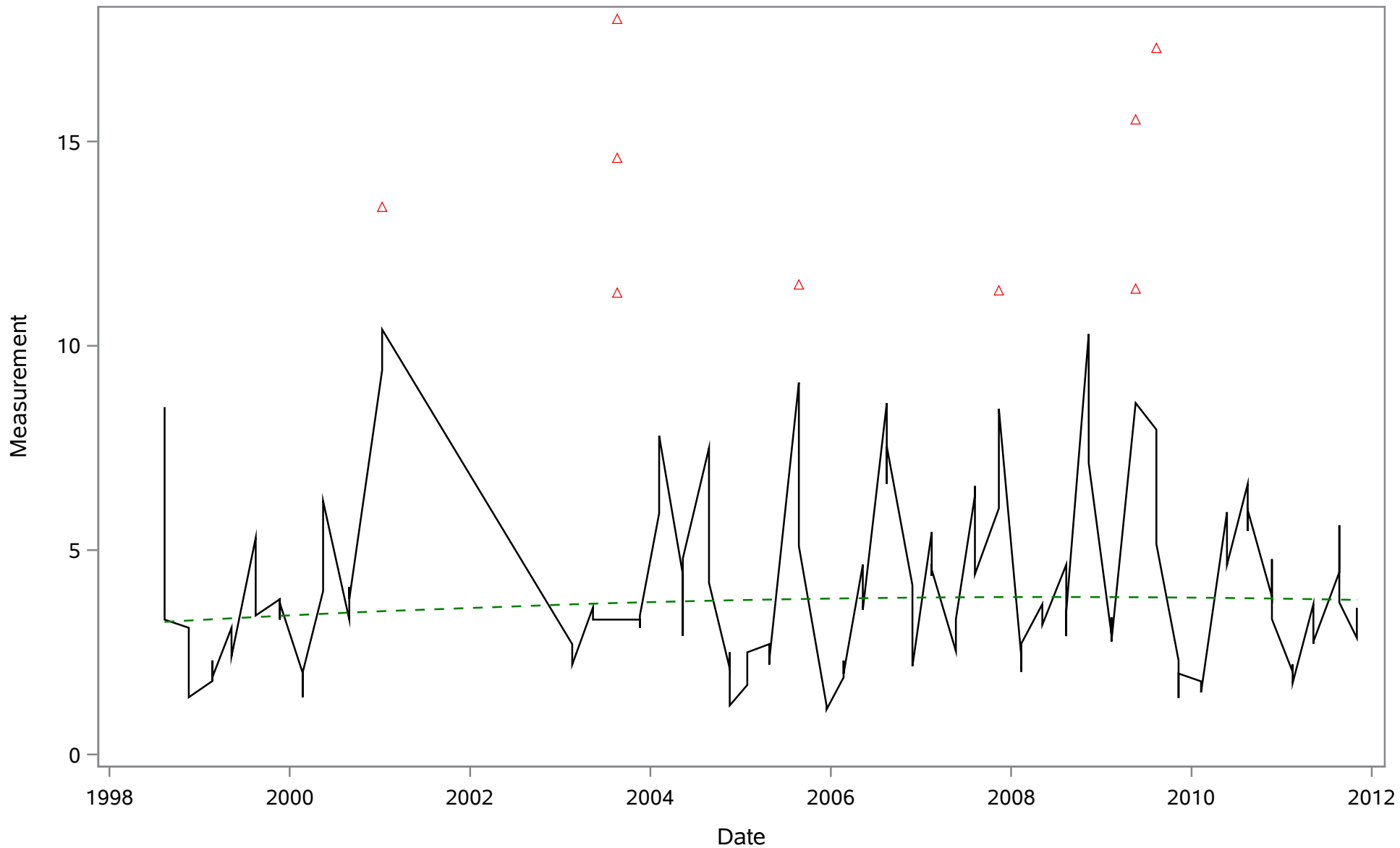
Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
ALK_tot_mgL

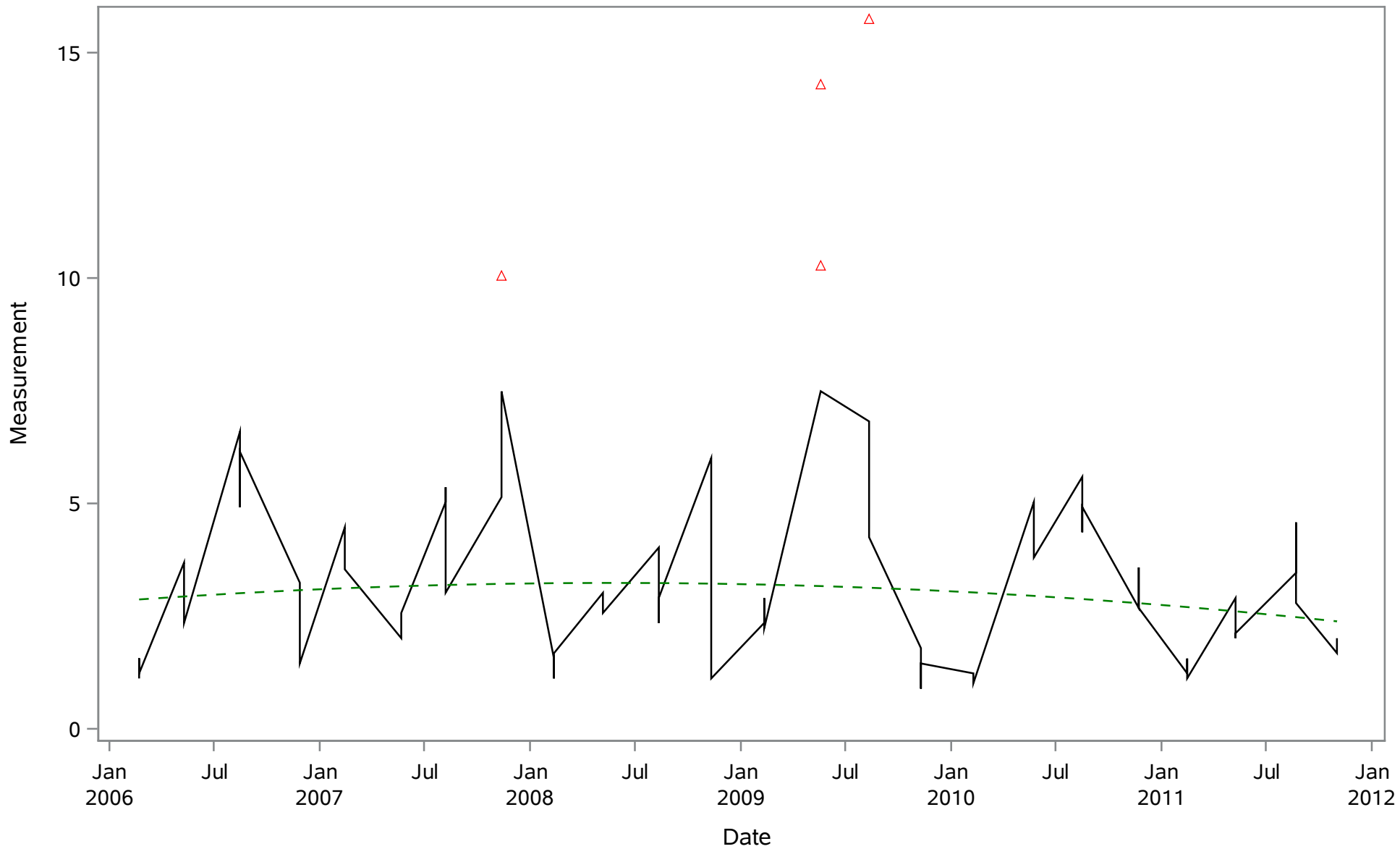


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_Uncor_ugL



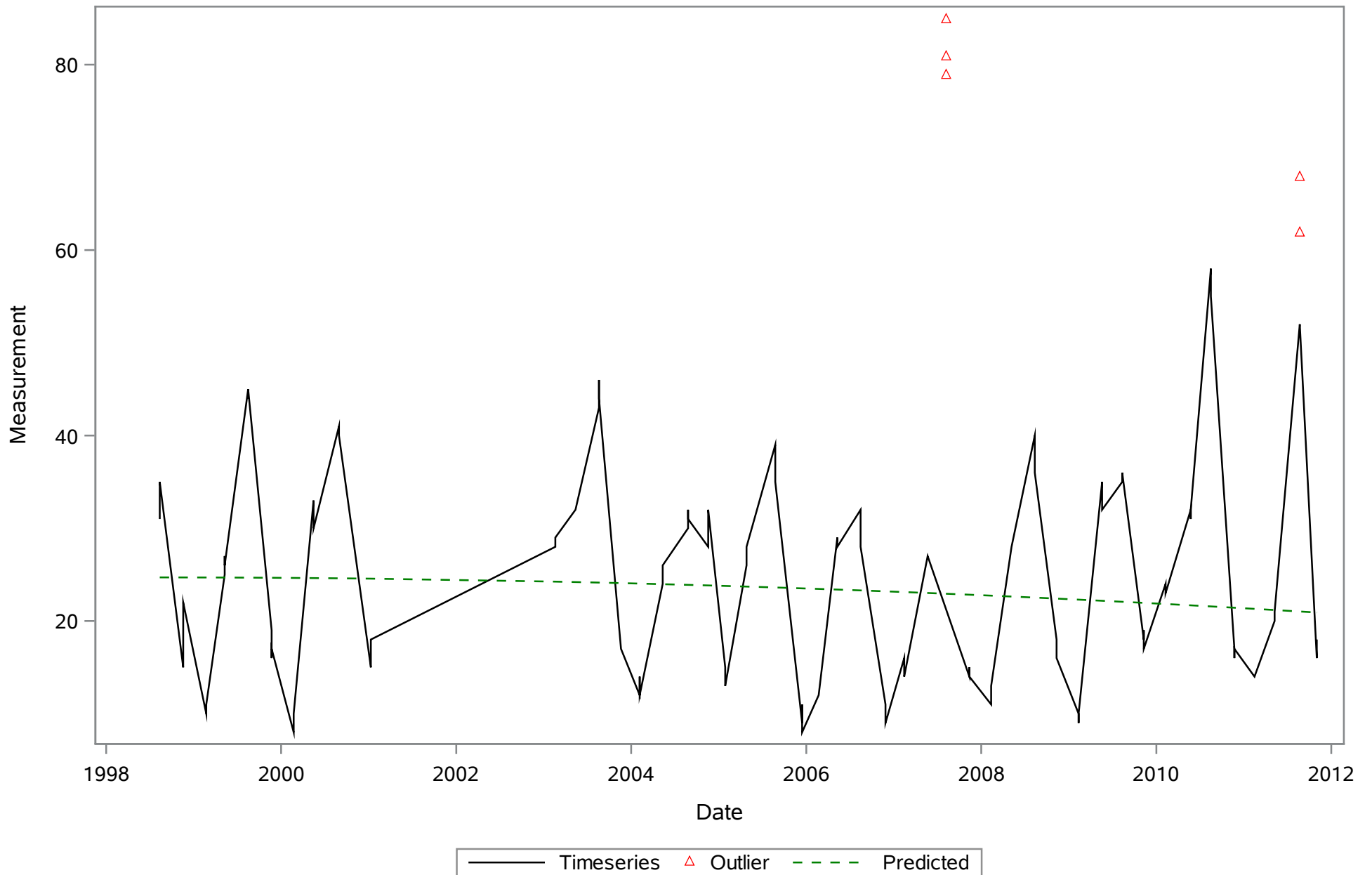
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_cor_uhl

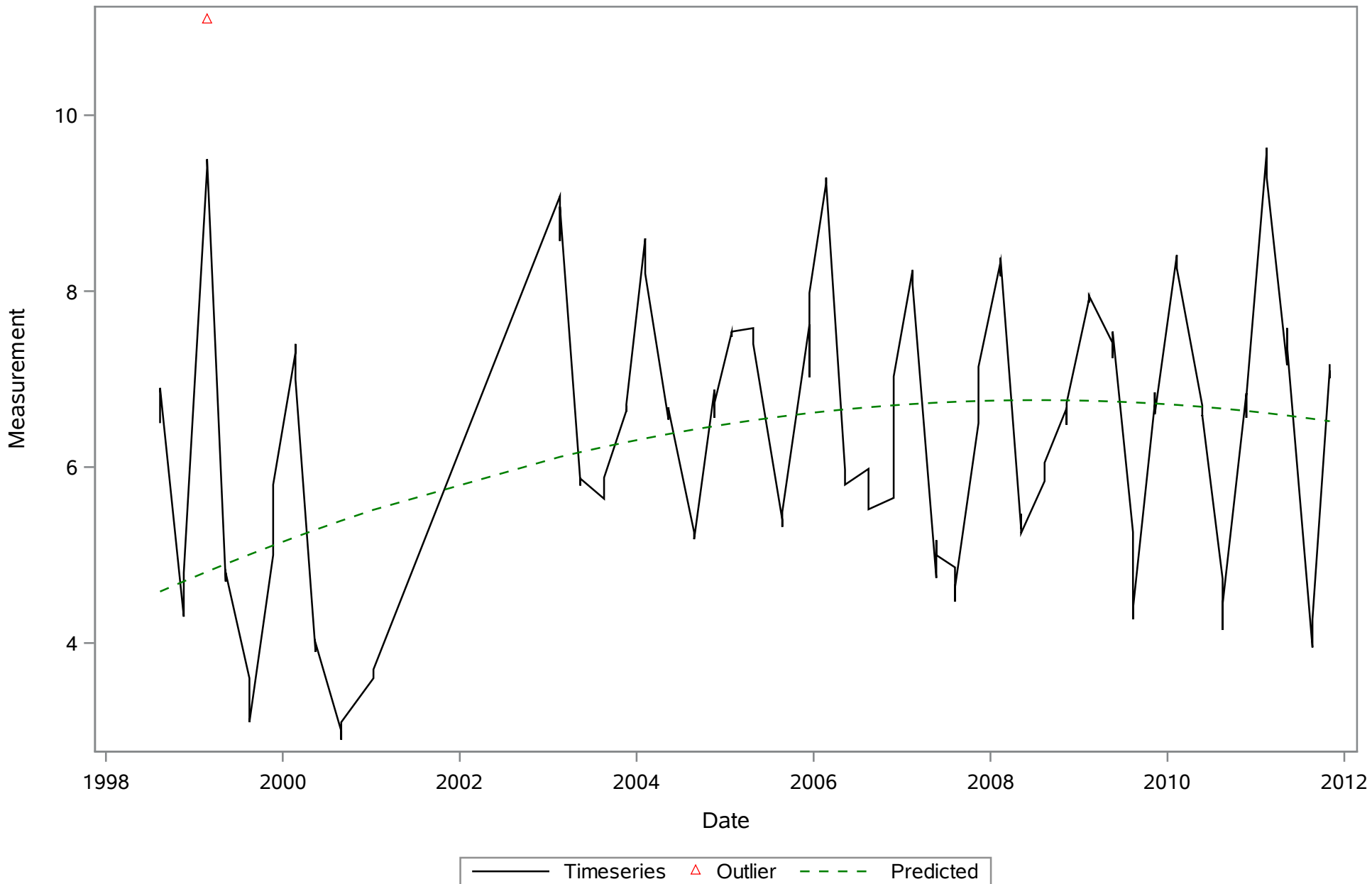


— Timeseries △ Outlier - - - Predicted

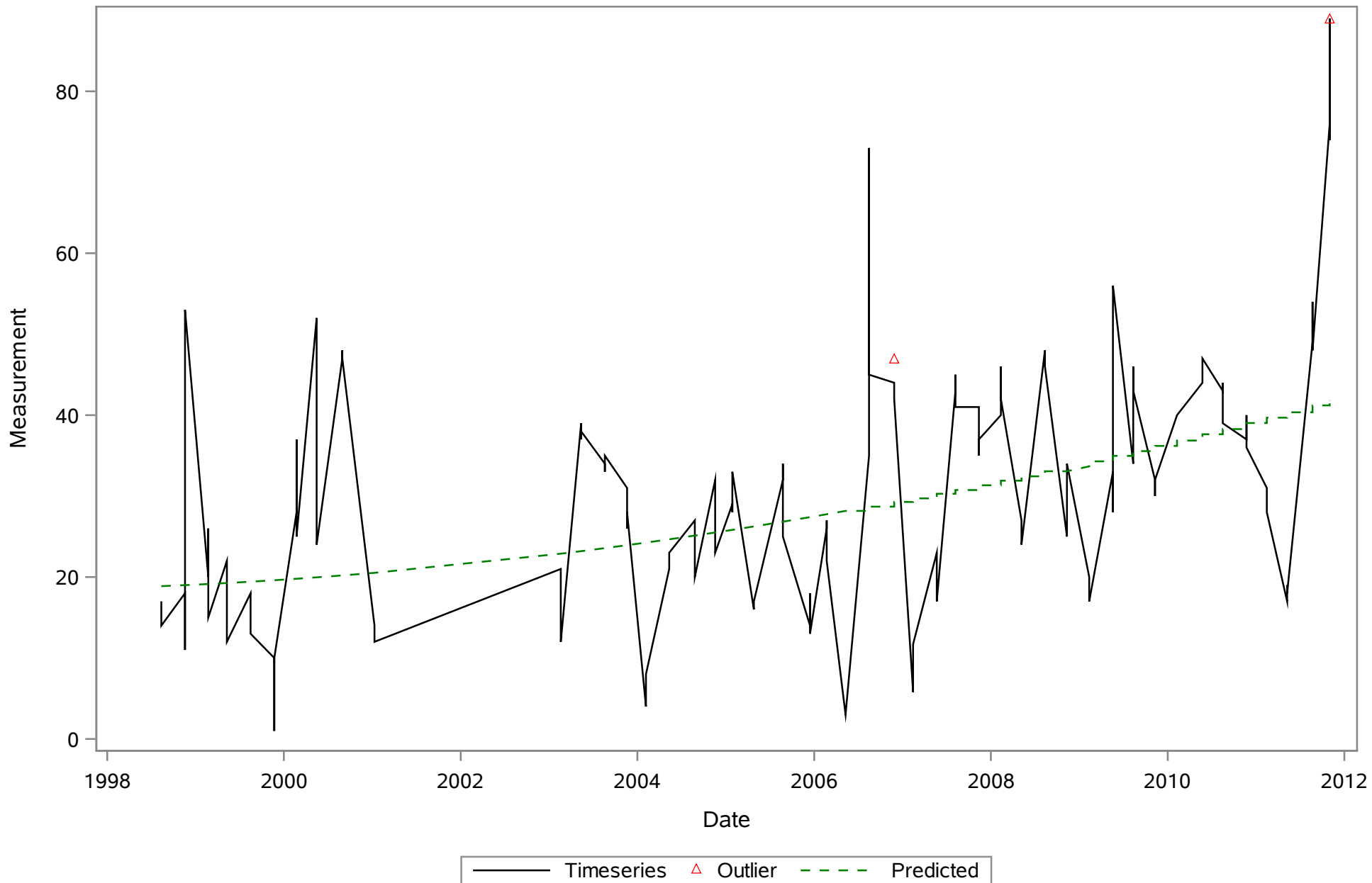
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
COLOR_PtCo



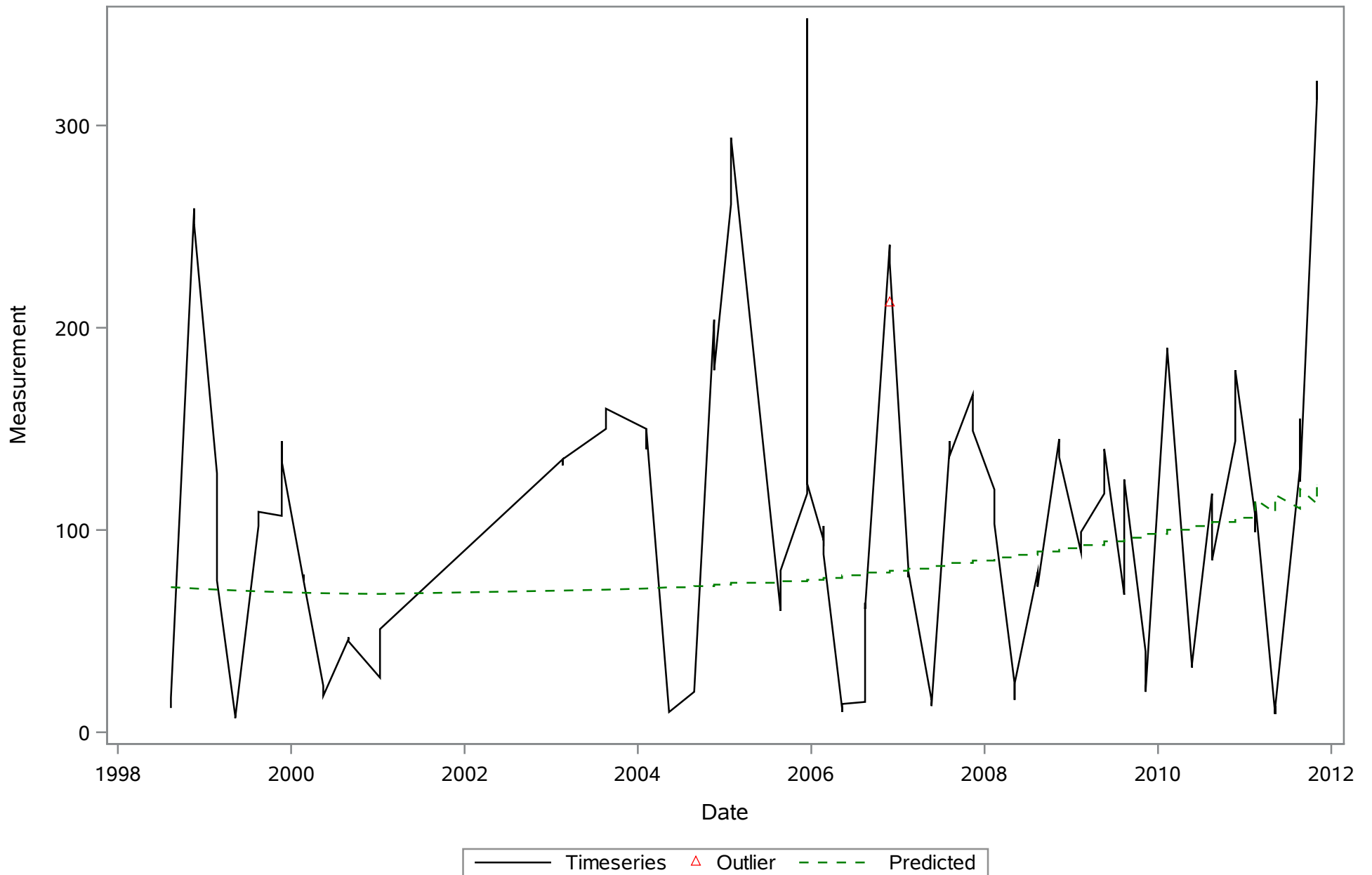
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
DO_mgL



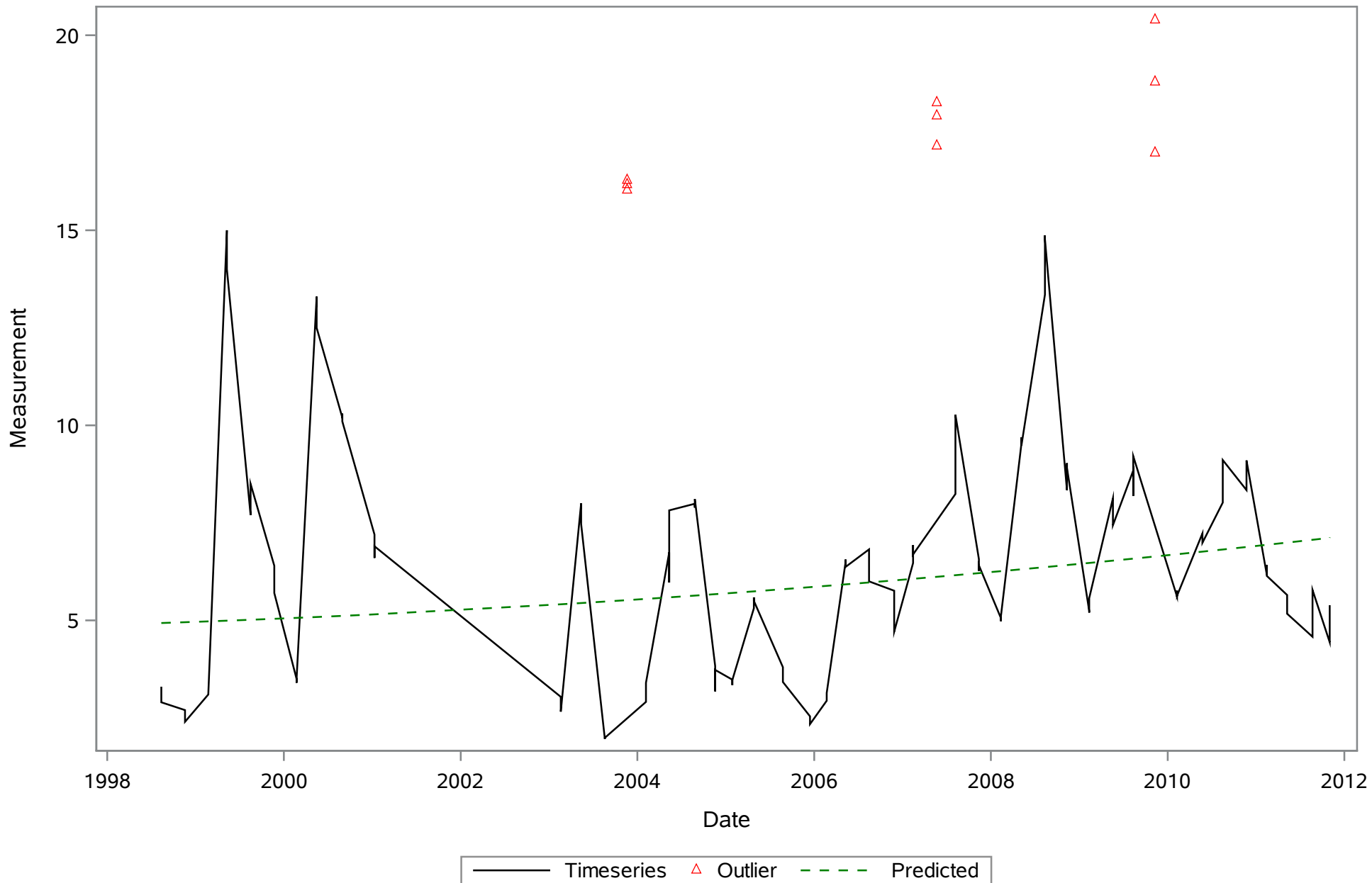
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NH4_uhl



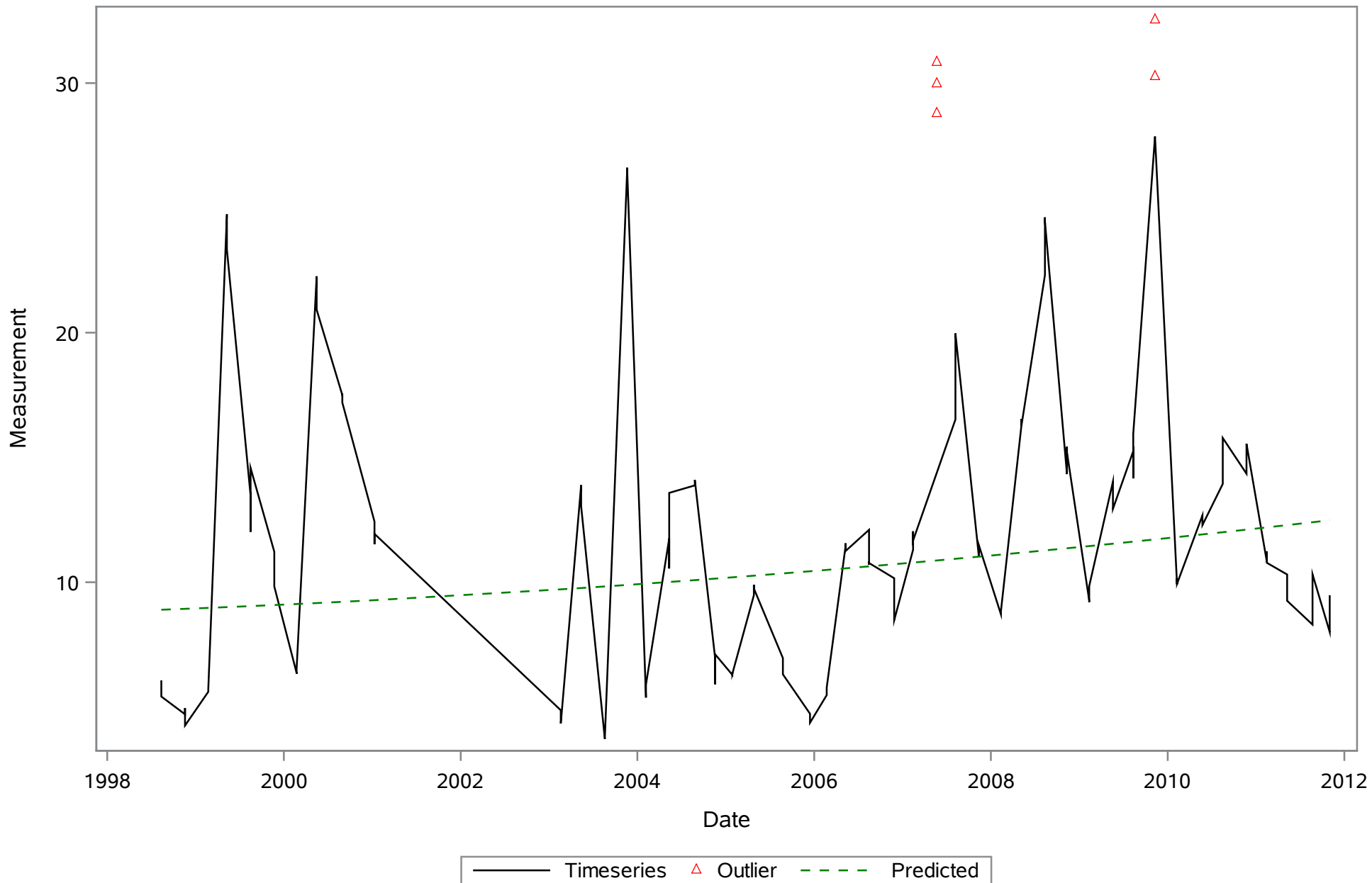
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NO3_ugL



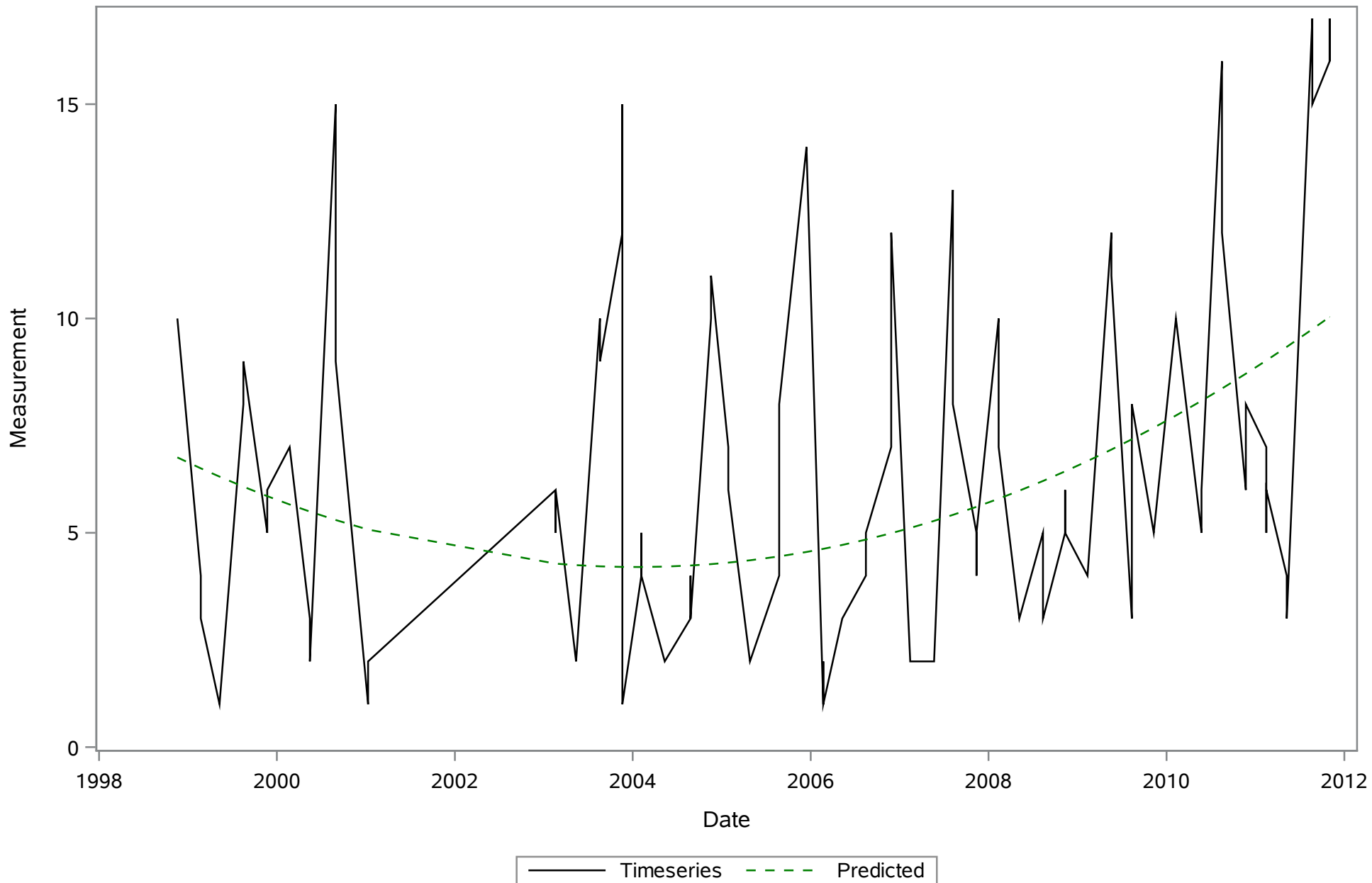
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SAL_Perc



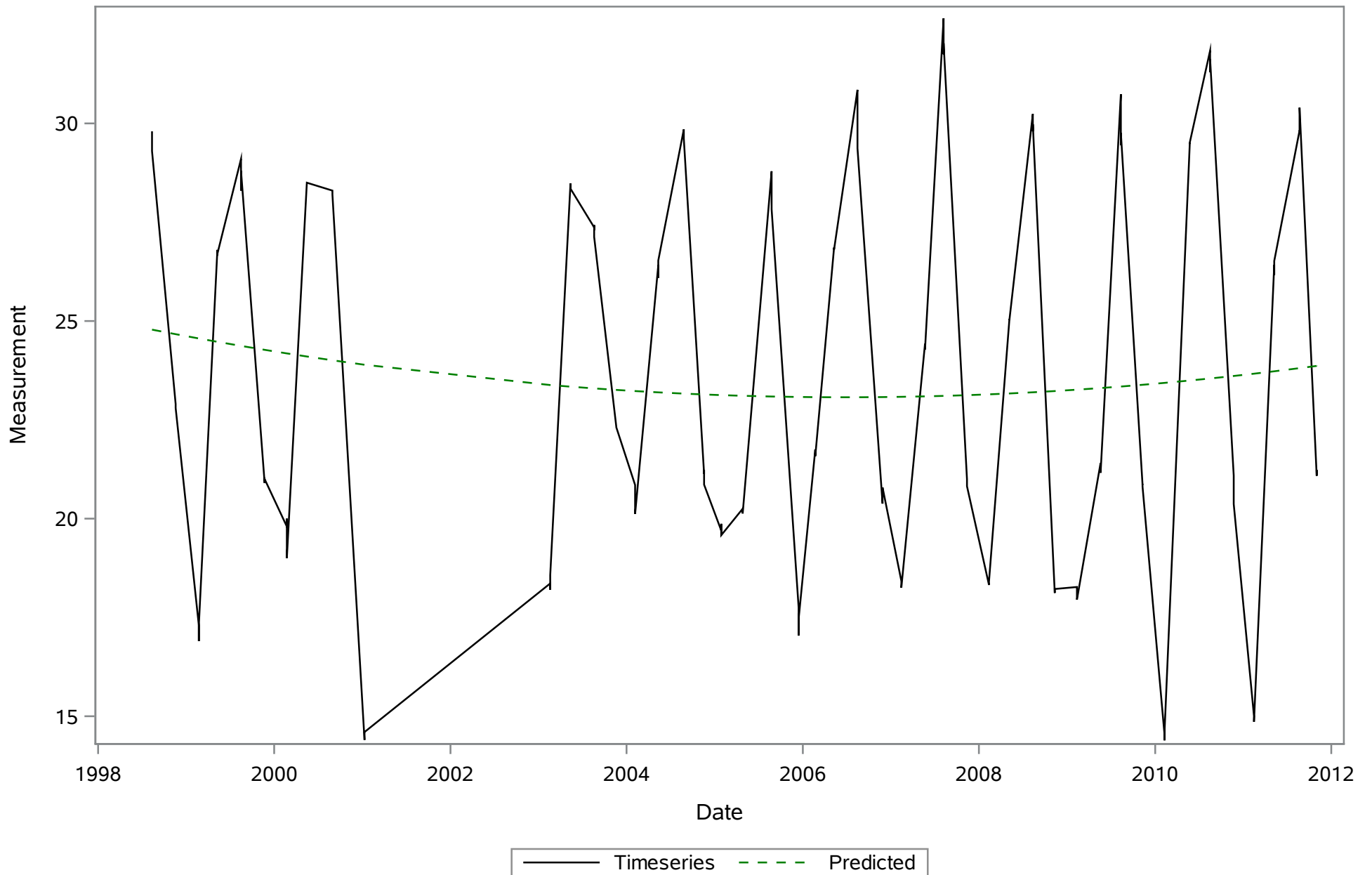
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SPCOND_mS_cm



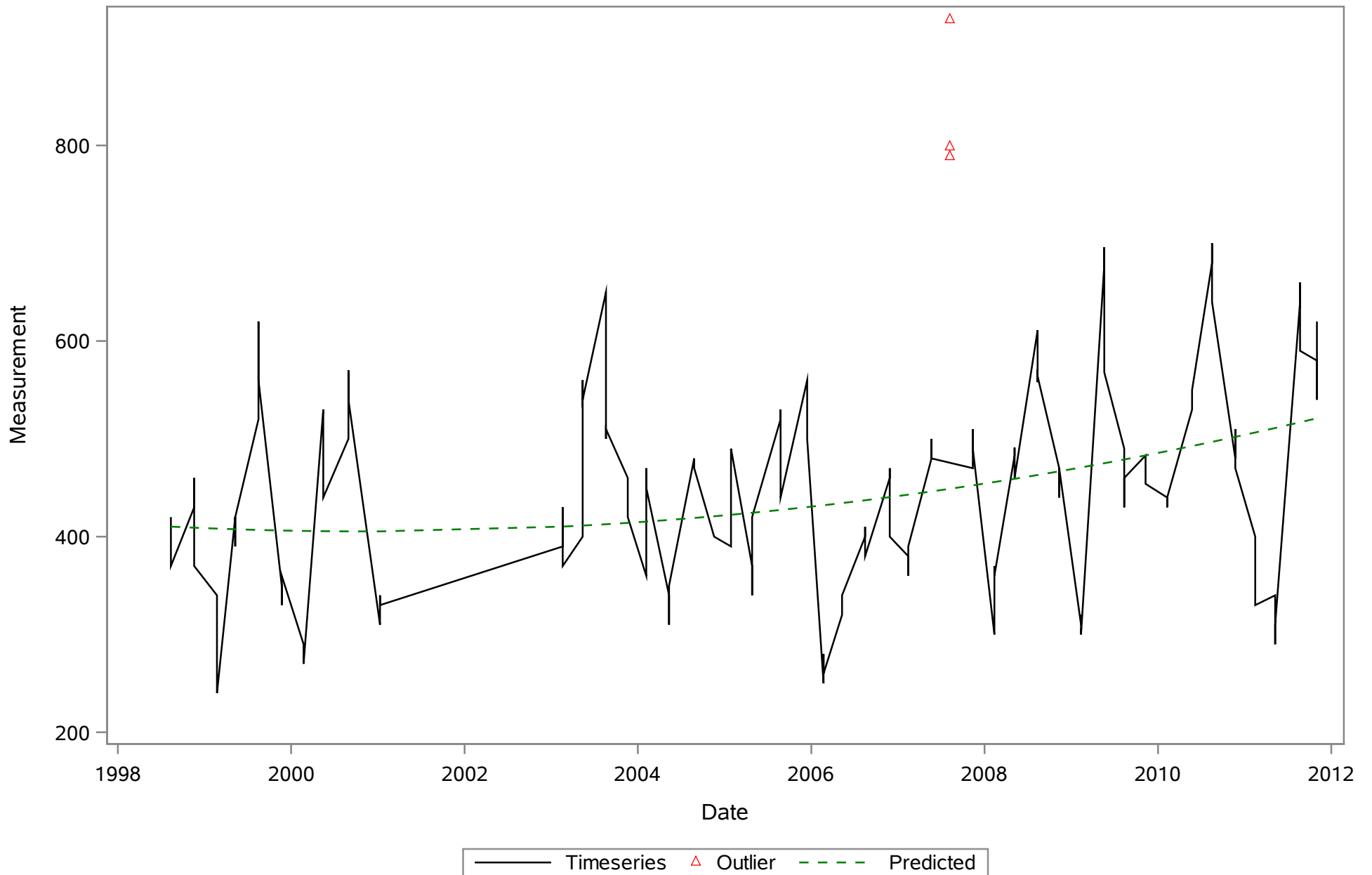
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SRP_ugL



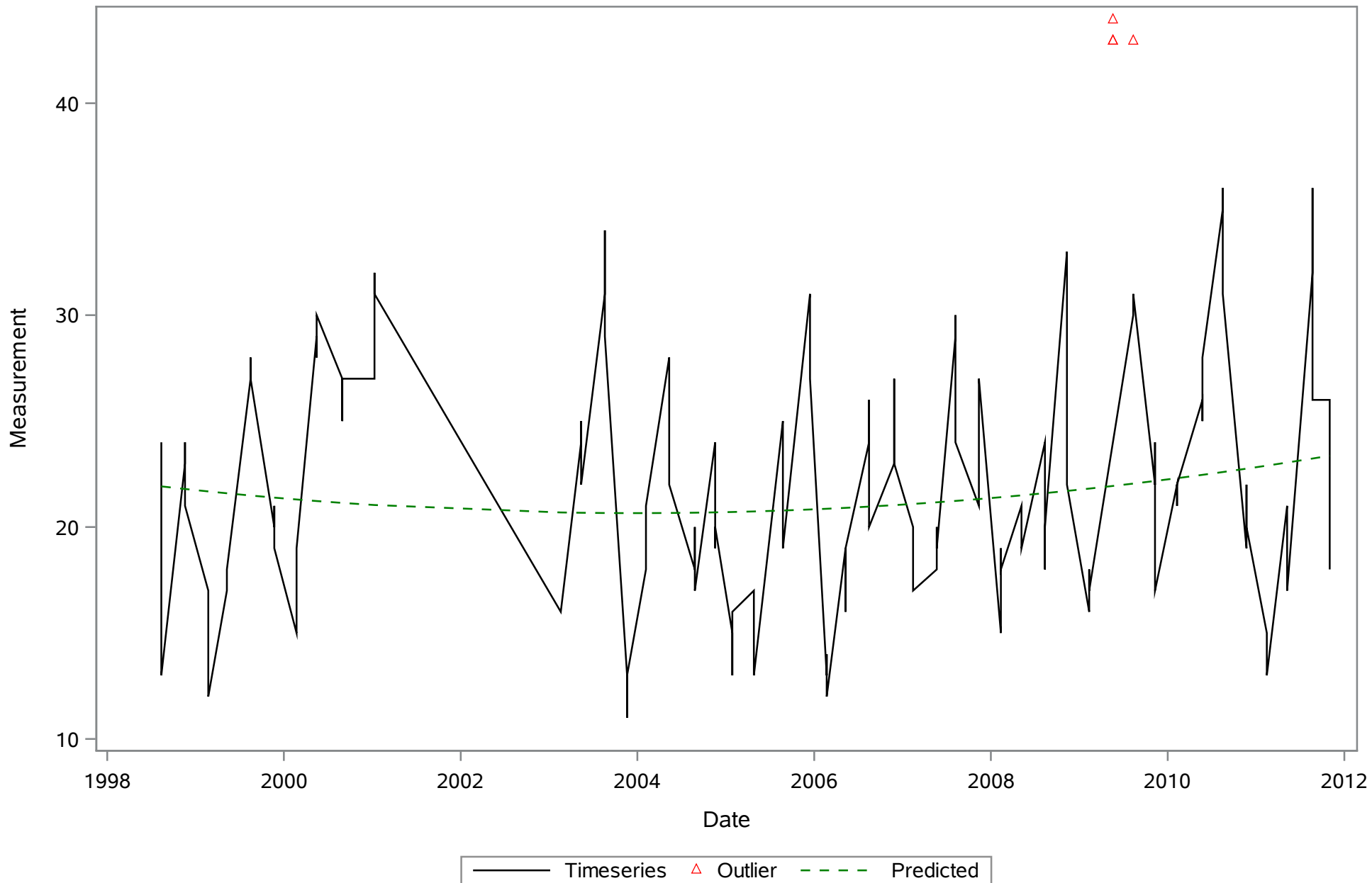
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TEMP_C



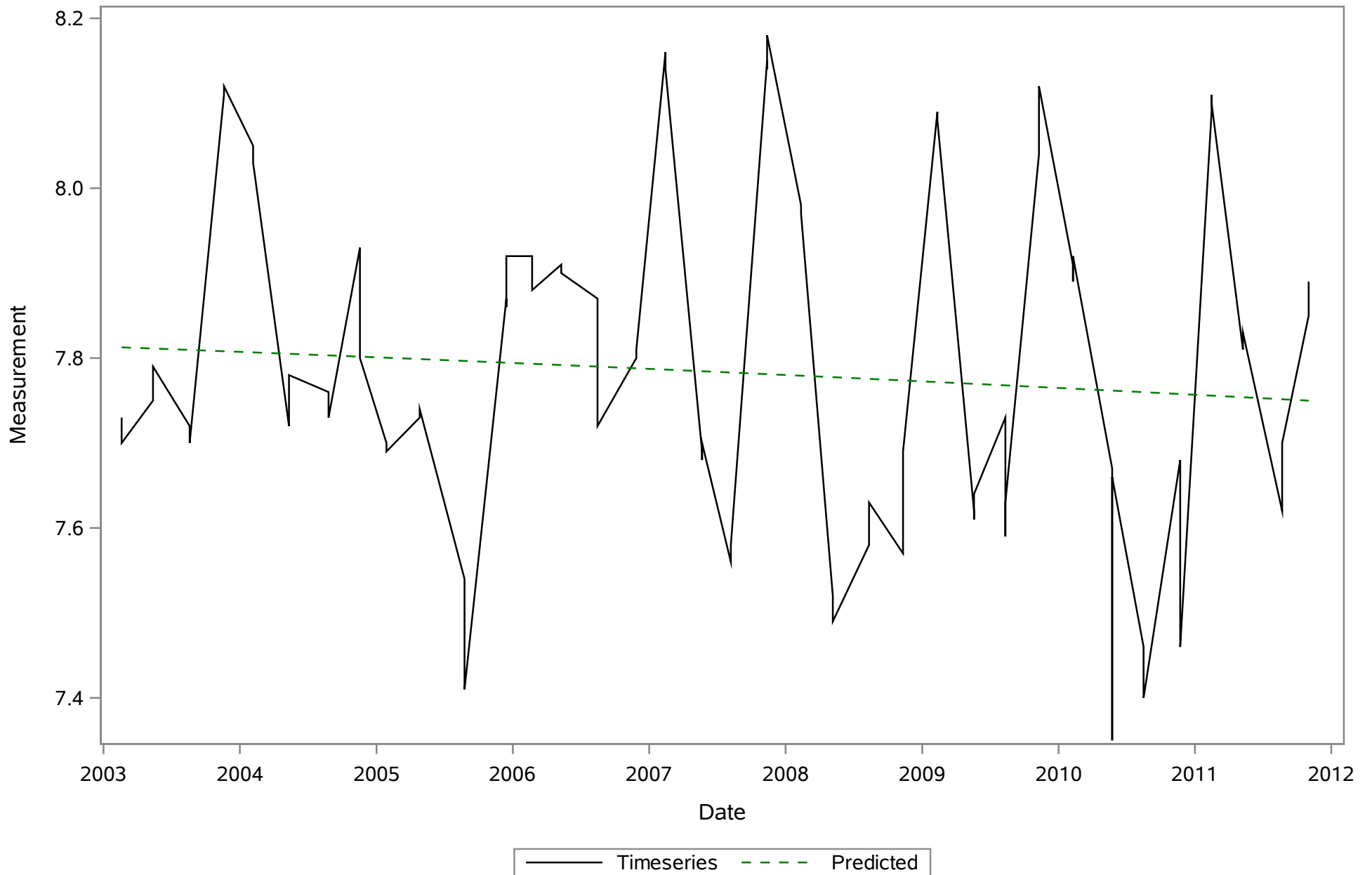
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TN_ugl



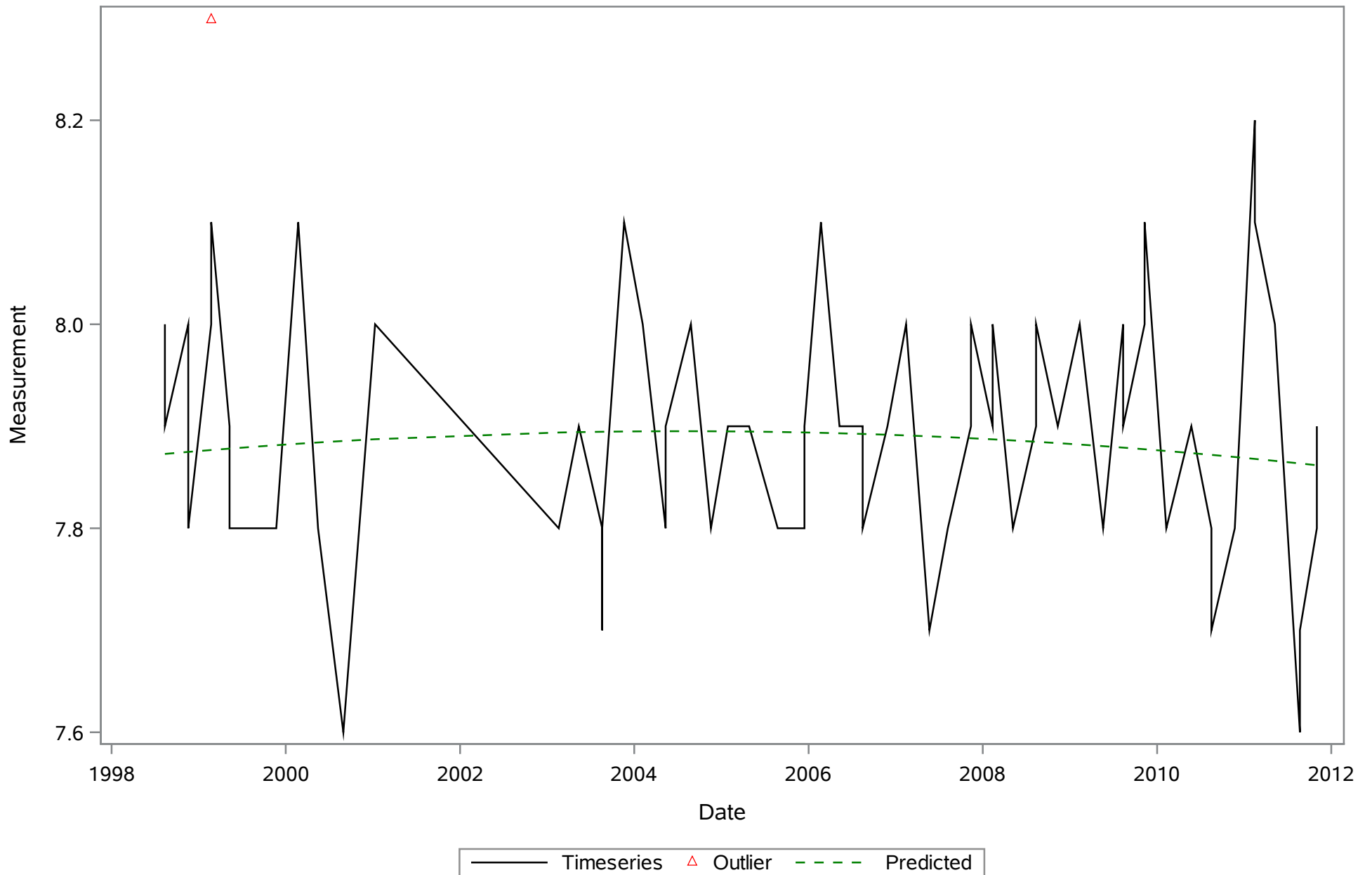
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TP_ugl



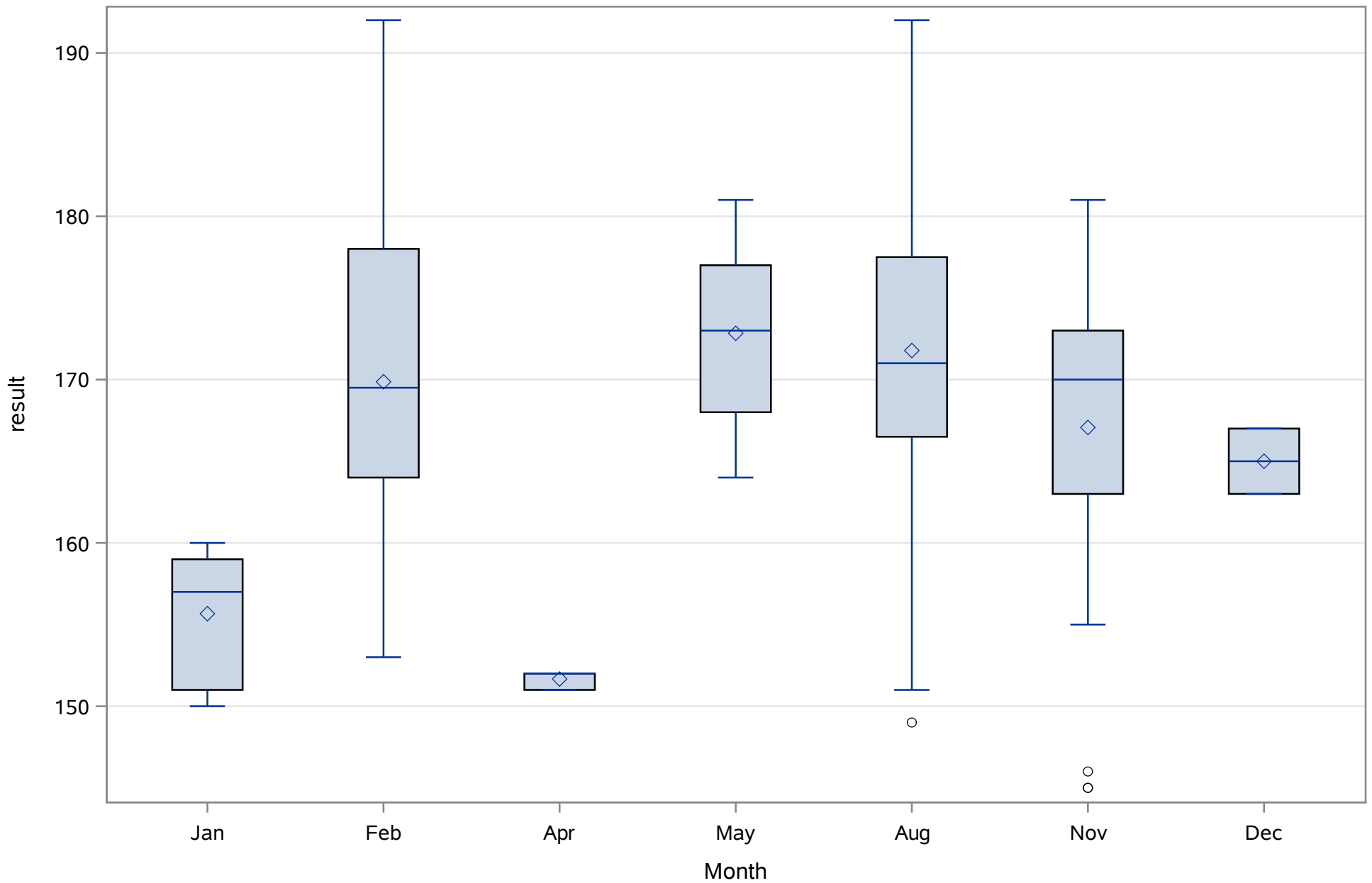
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Field



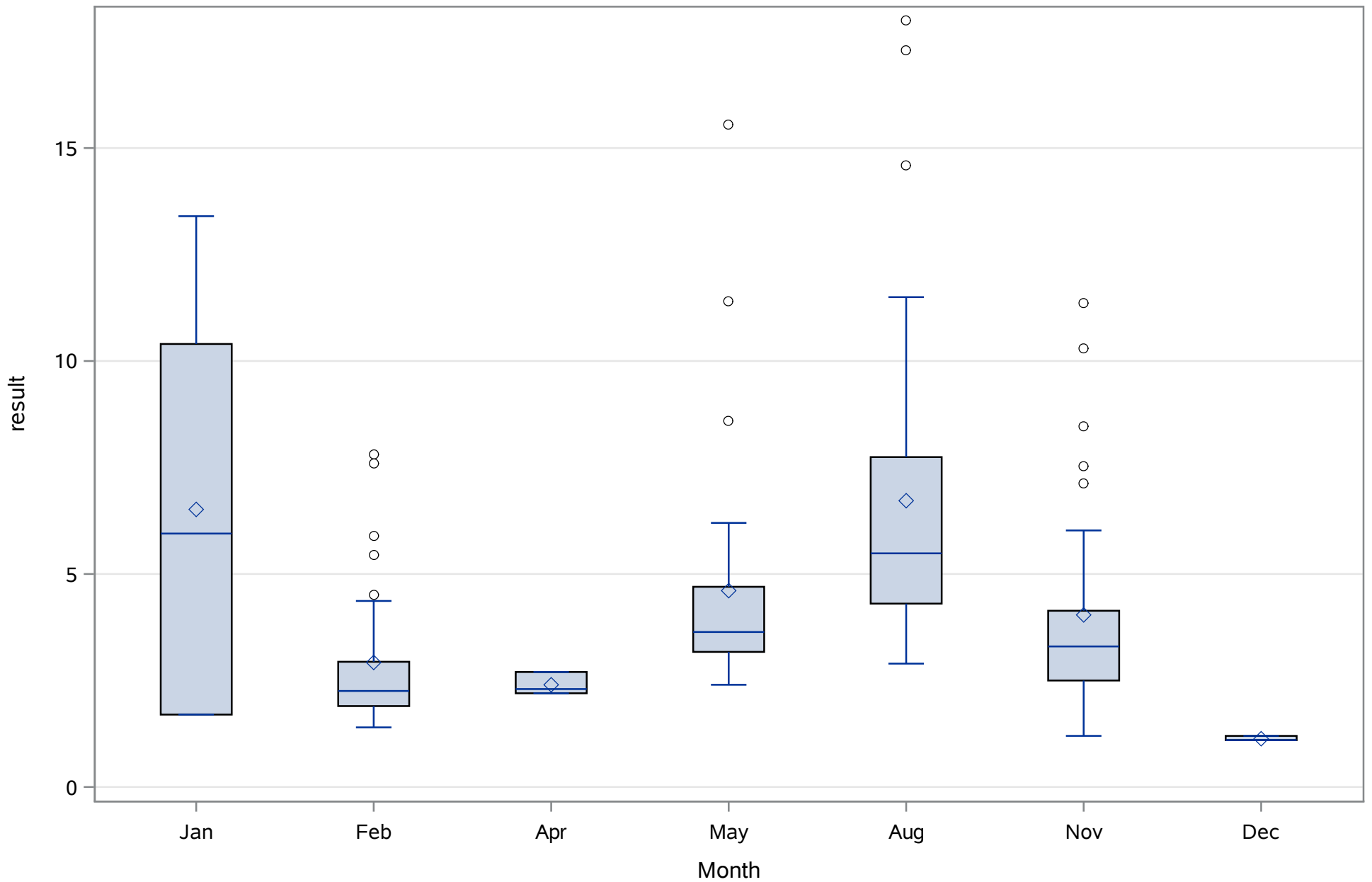
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Lab



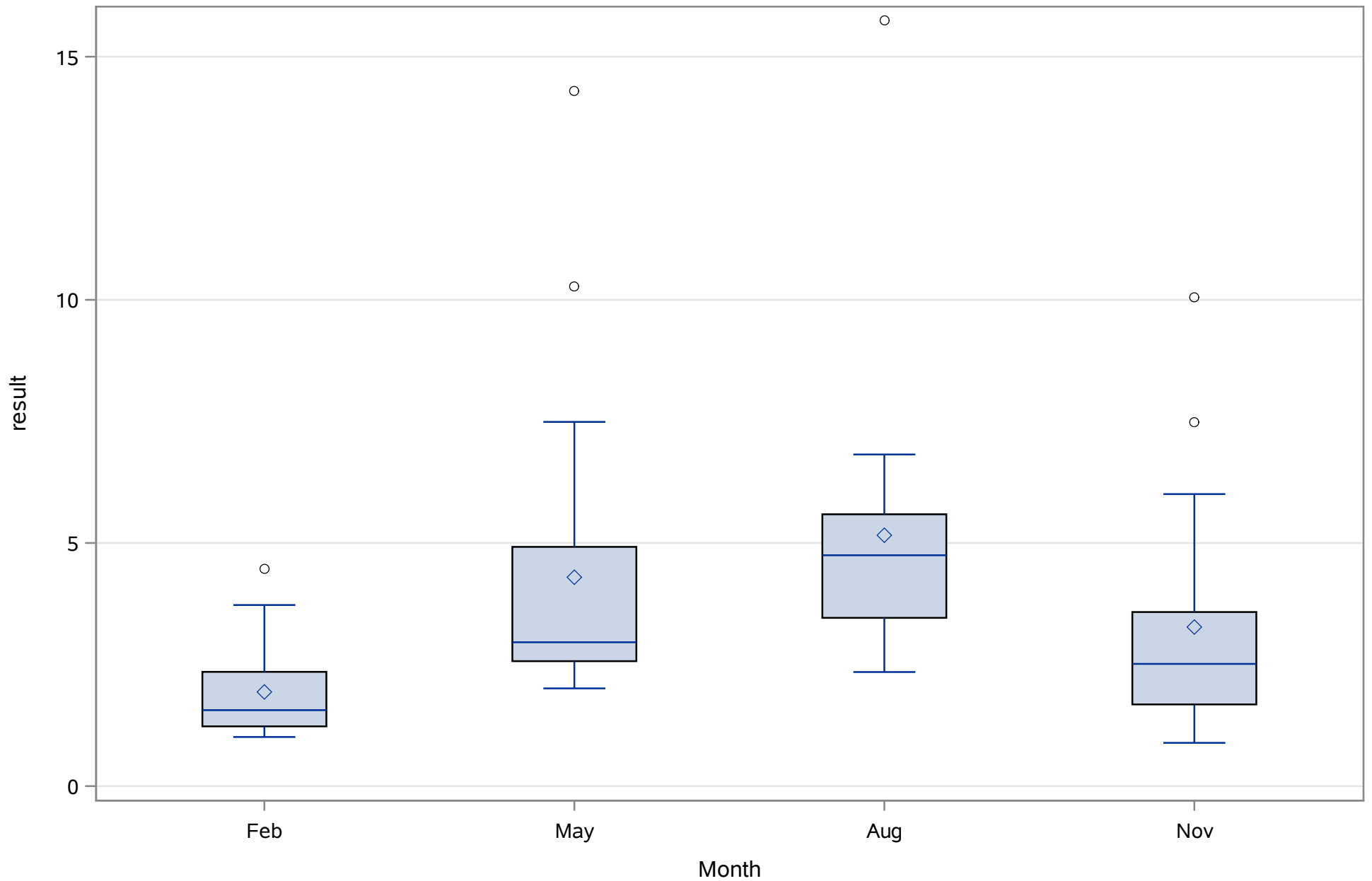
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
ALK_tot_mgL



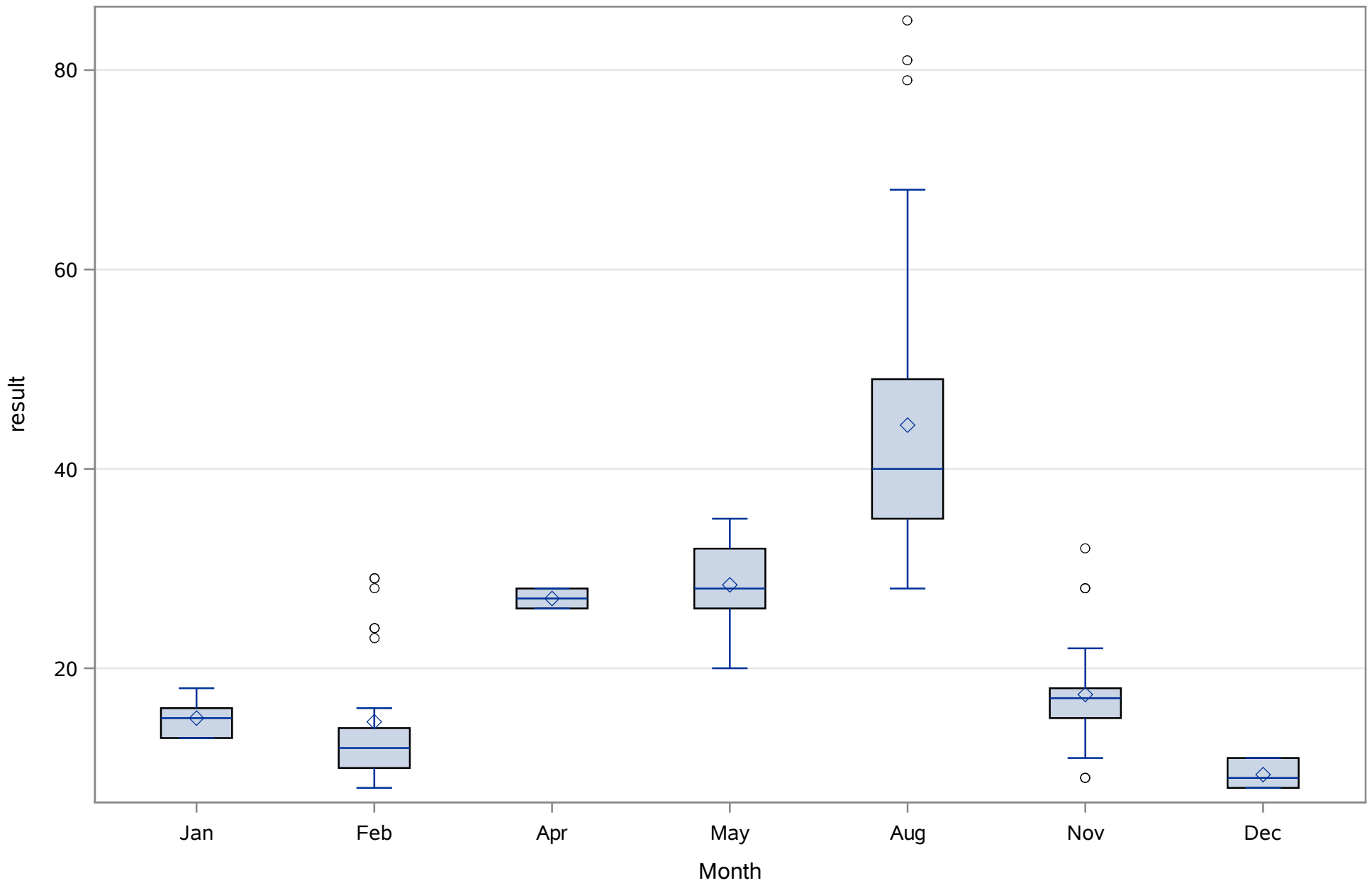
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_Uncor_ugL



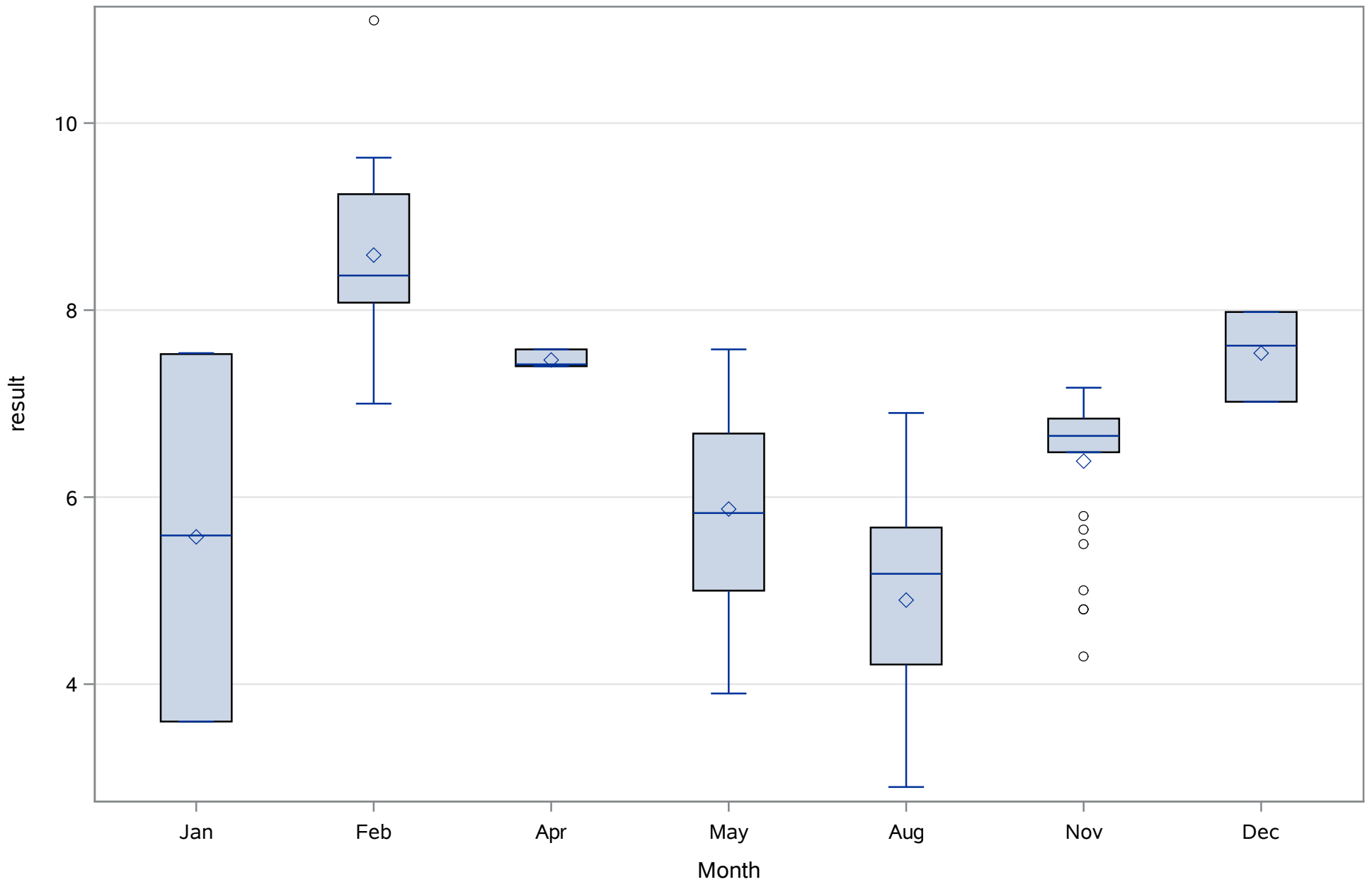
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
CHLA_cor_ugl



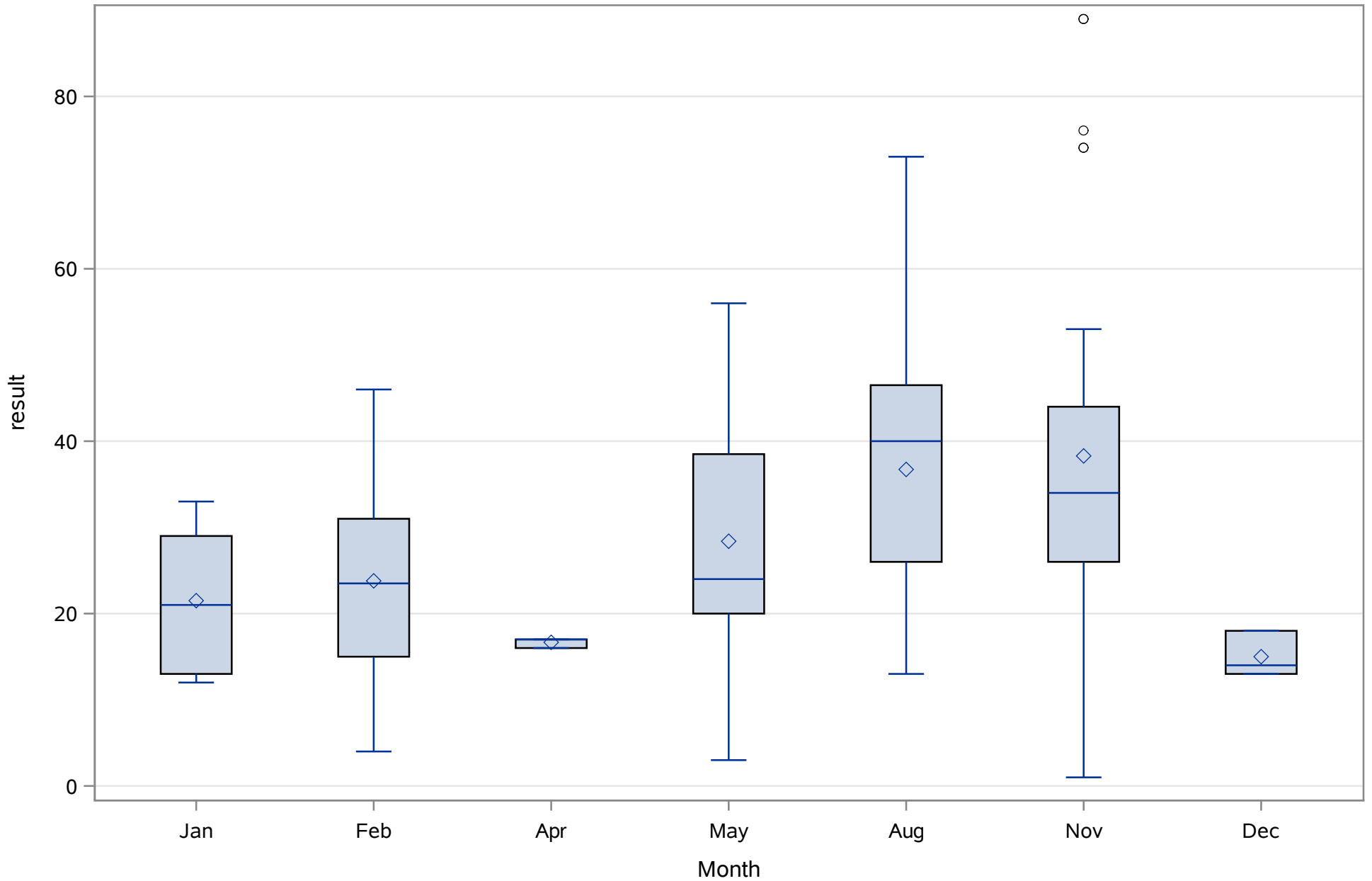
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
COLOR_PtCo



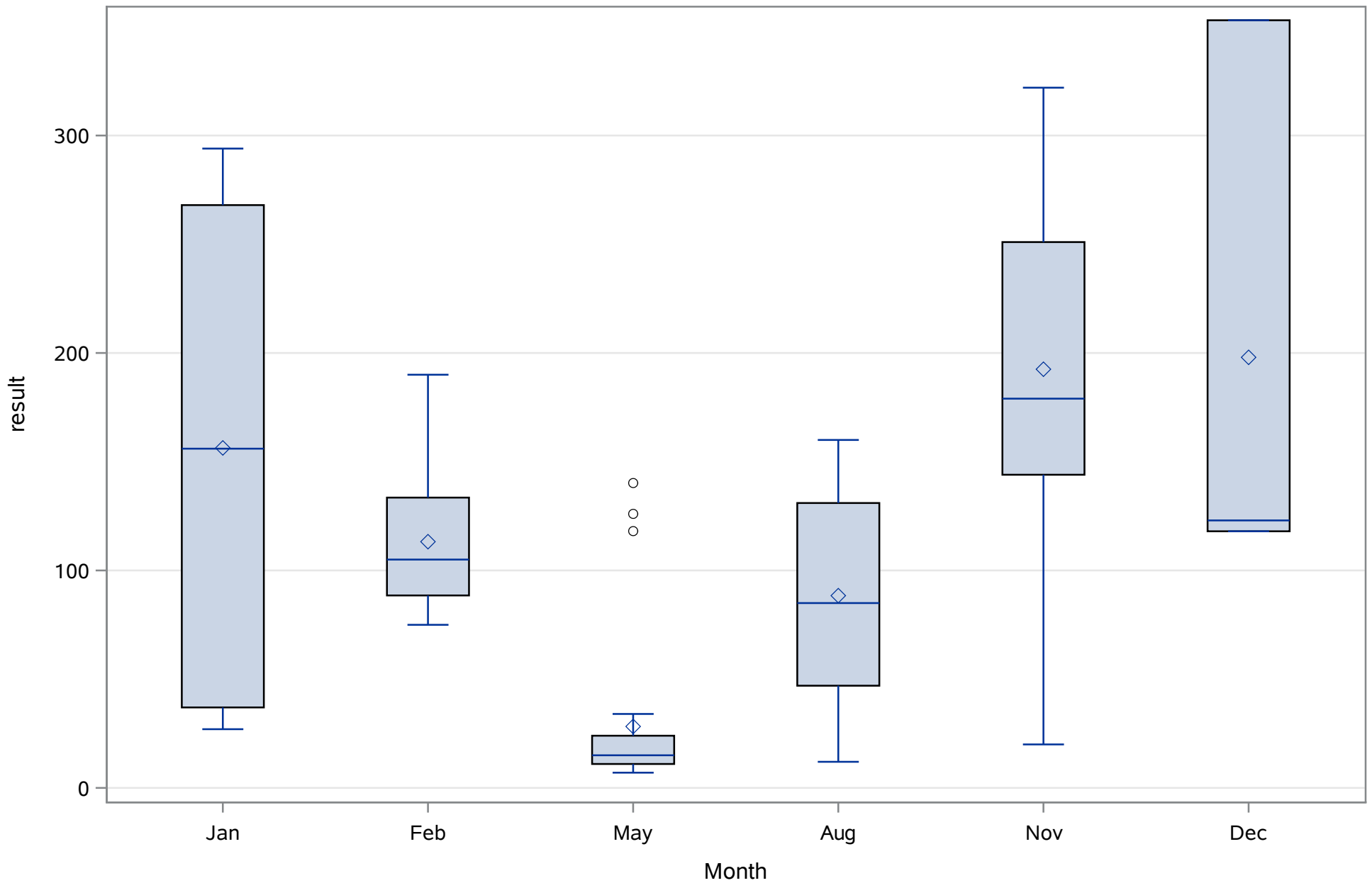
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
DO_mgL



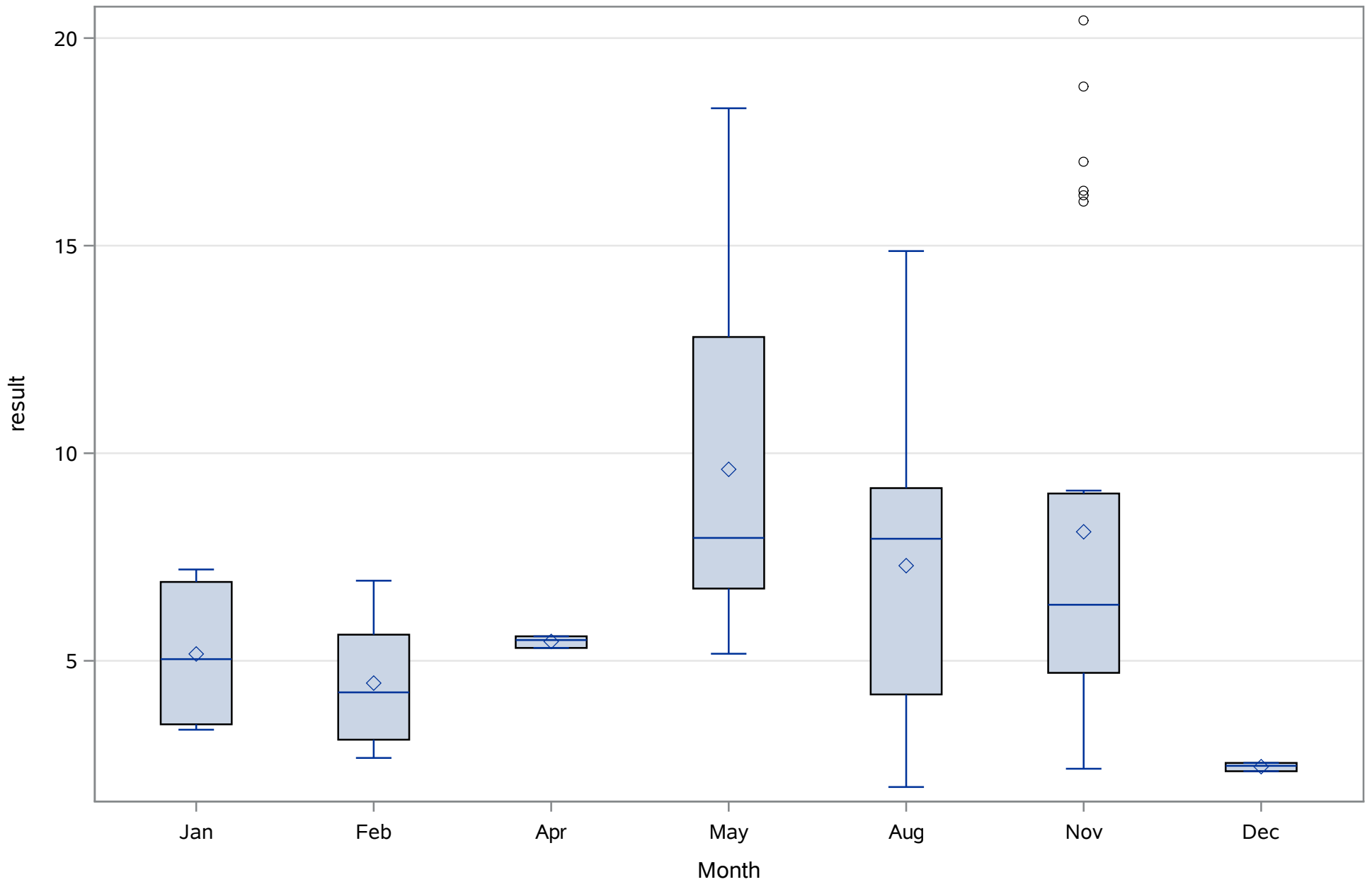
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NH4_ugl



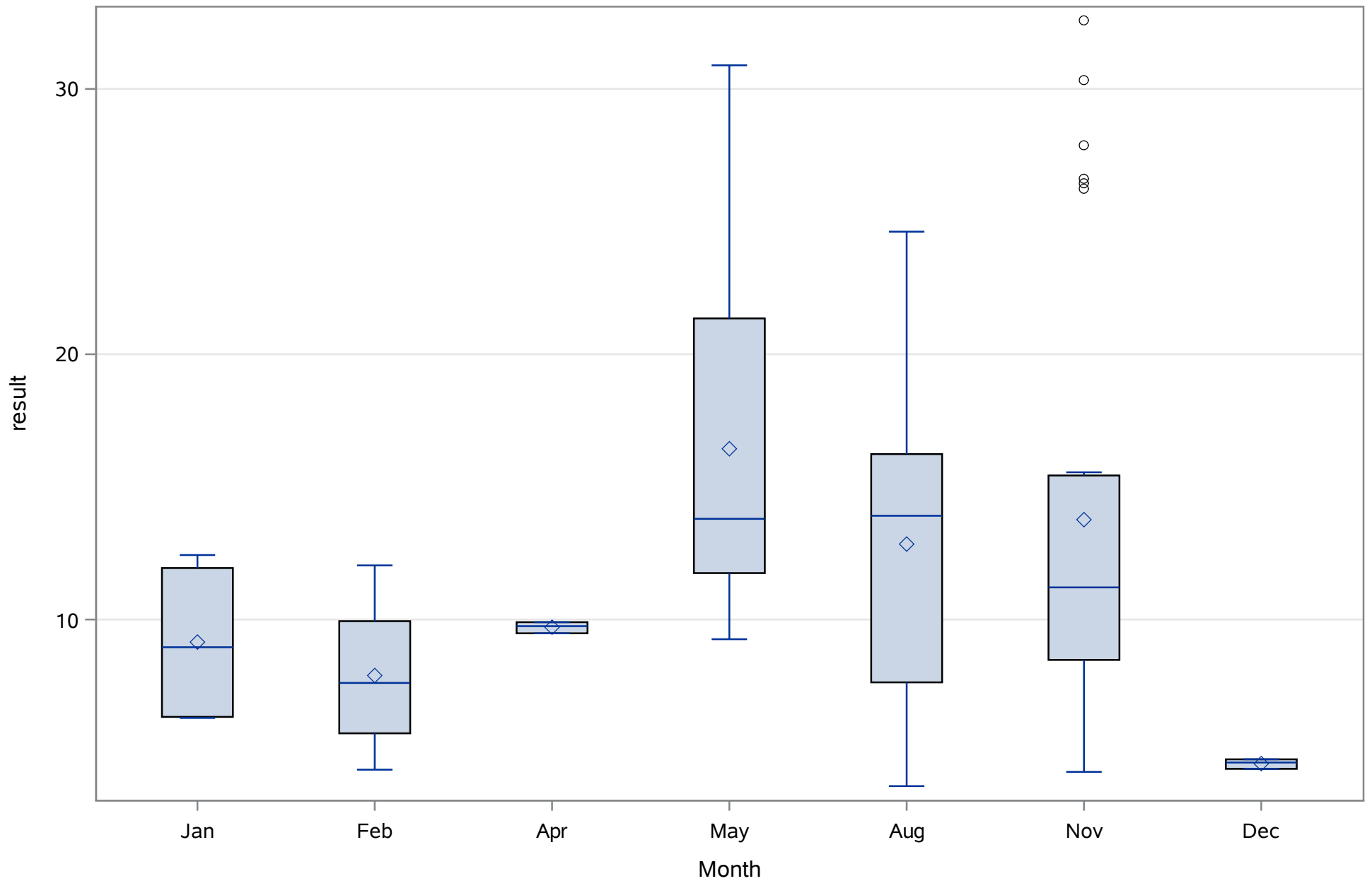
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
NO3_ugL



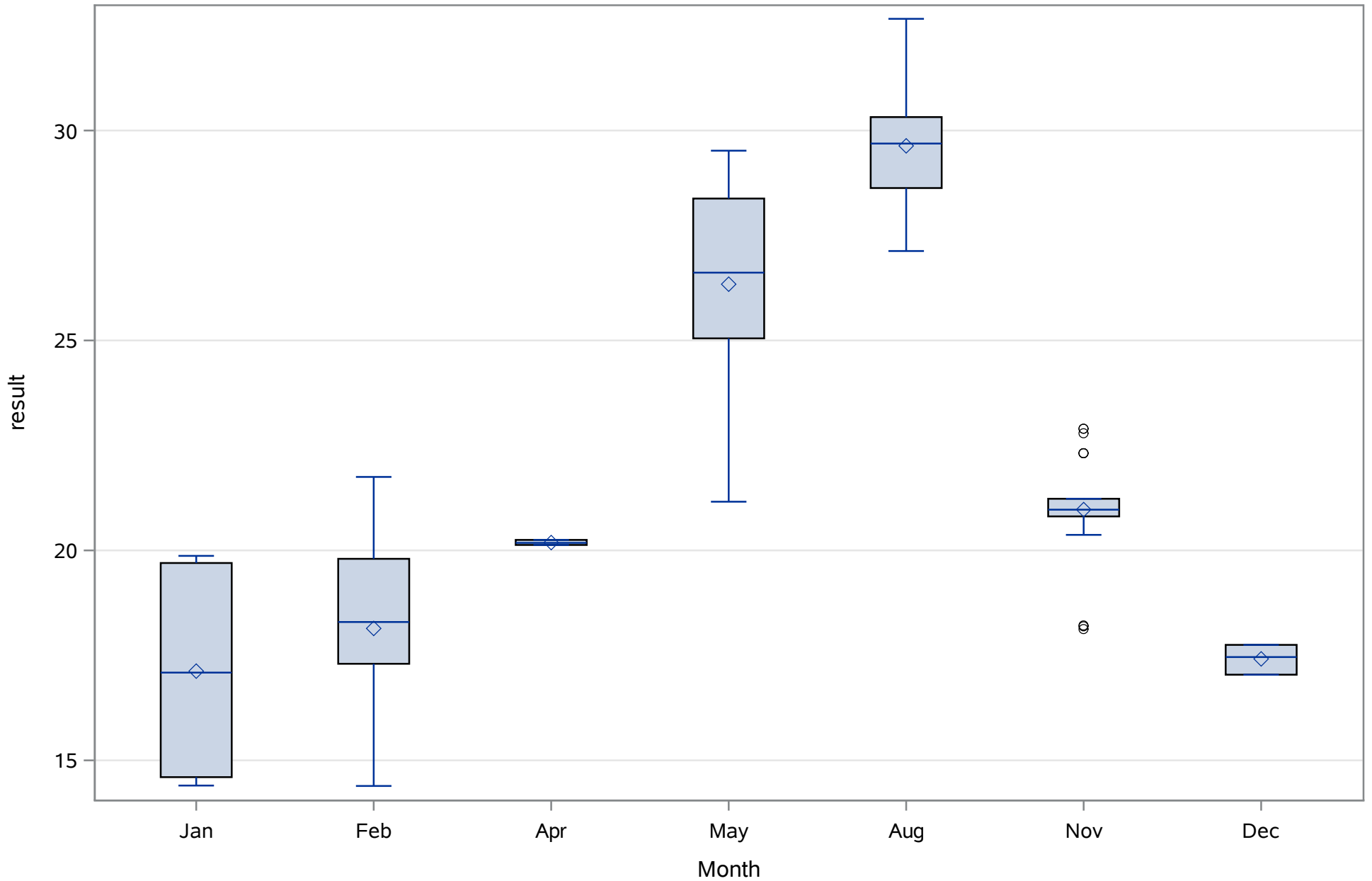
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SAL_Perc



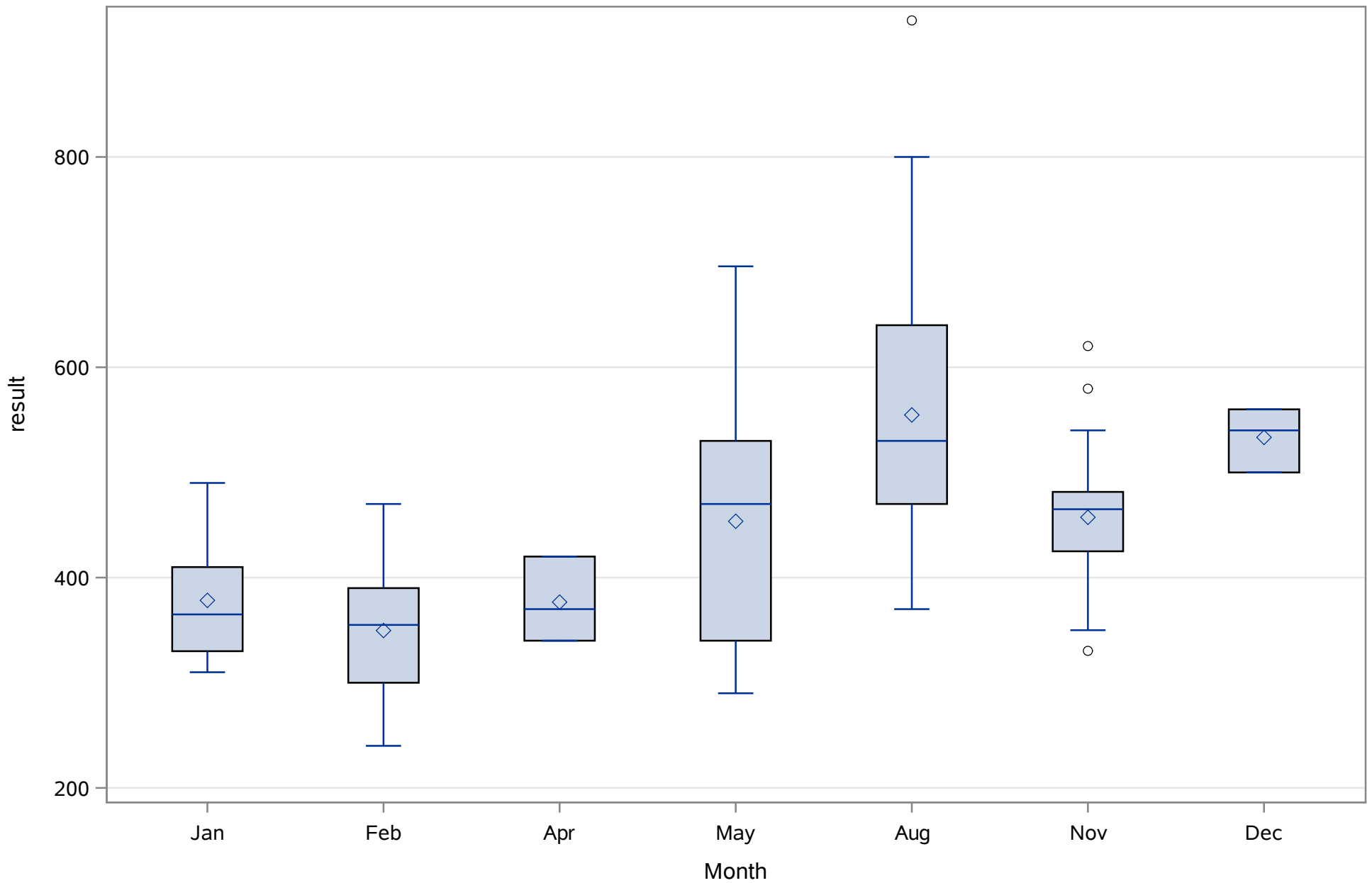
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
SPCOND_mS_cm



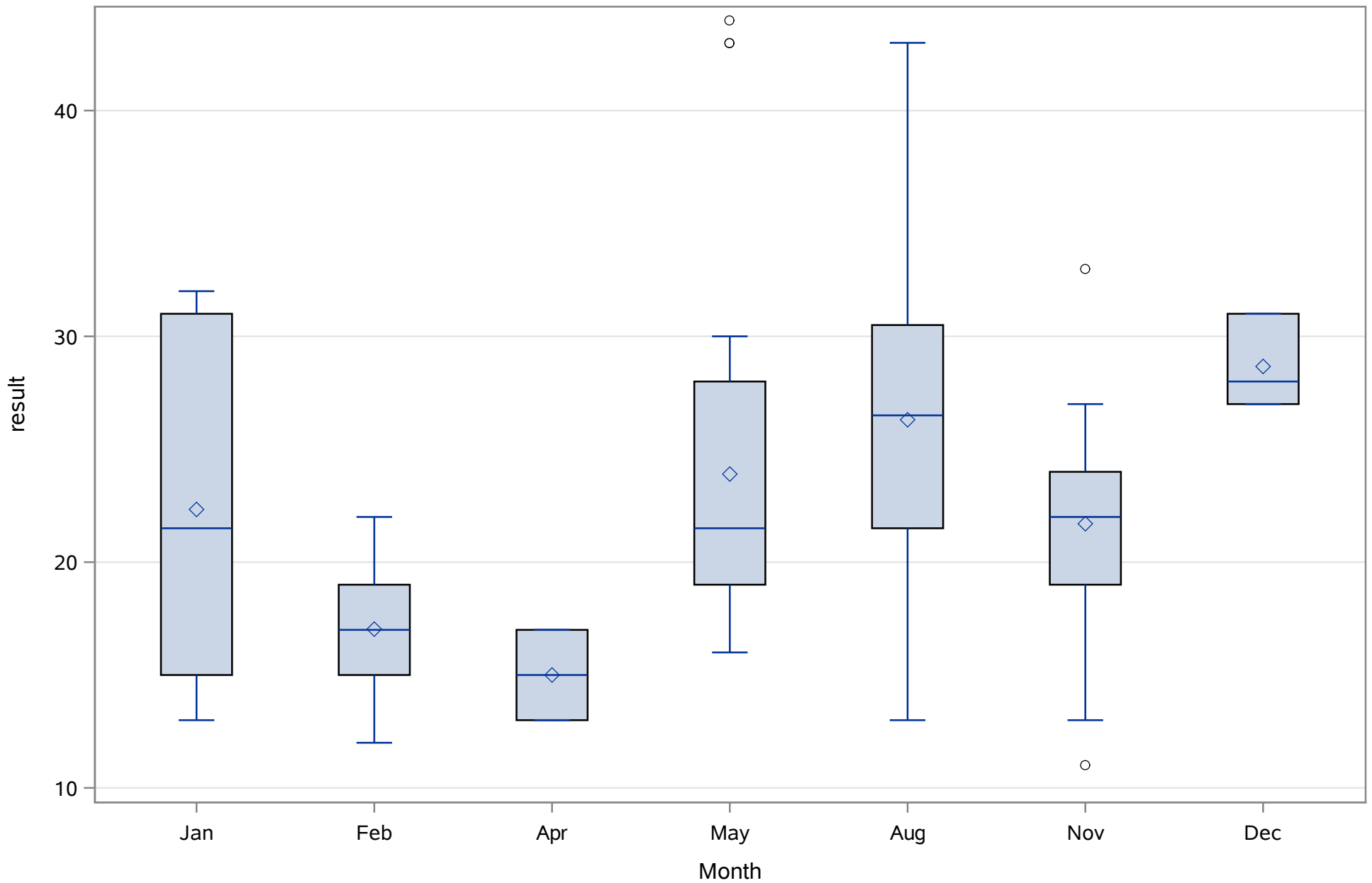
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TEMP_C



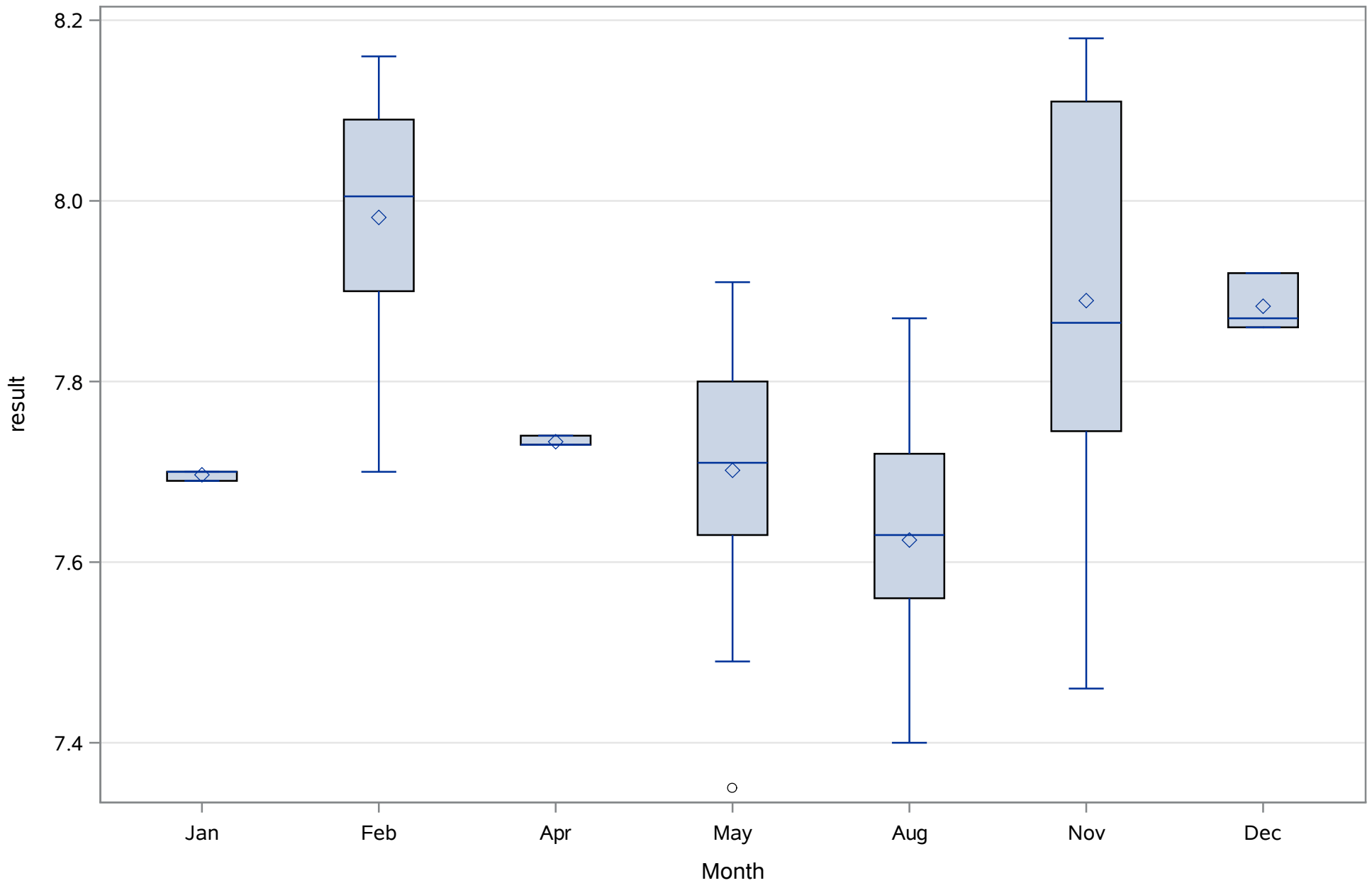
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TN_ugl



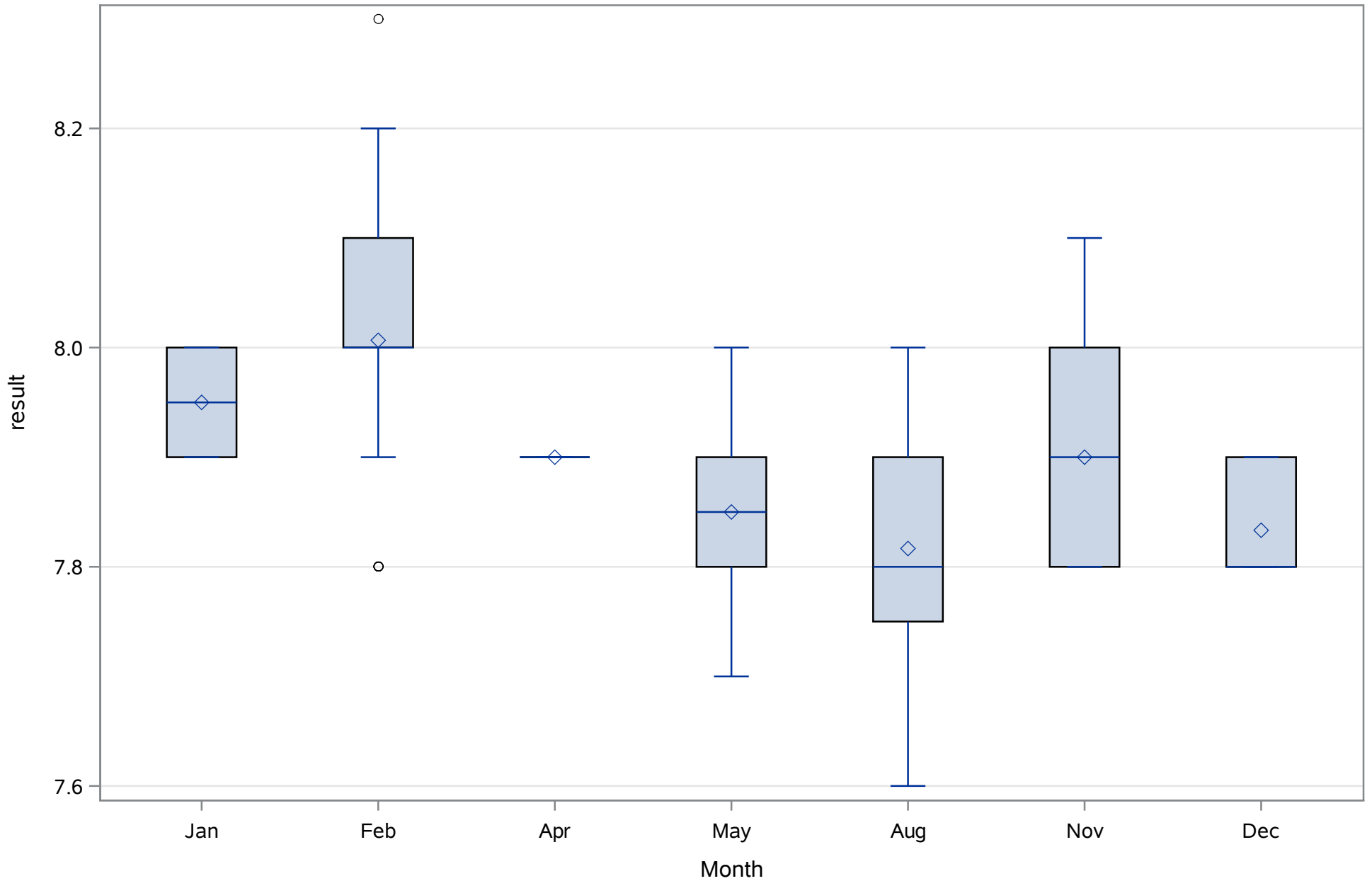
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 12
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	169.275362	Sum Observations	23360
Std Deviation	10.028258	Variance	100.565958
Skewness	-0.1524234	Kurtosis	0.00678406
Uncorrected SS	3968050	Corrected SS	13777.5362
Coeff Variation	5.92422774	Std Error Mean	0.85366201

Basic Statistical Measures			
Location		Variability	
Mean	169.2754	Std Deviation	10.02826
Median	170.0000	Variance	100.56596
Mode	170.0000	Range	51.00000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	198.2932	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	196
99%	193
95%	183
90%	180
75% Q3	177
50% Median	170
25% Q1	164
10%	154
5%	151
1%	145
0% Min	145

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
ALK_tot_mgL

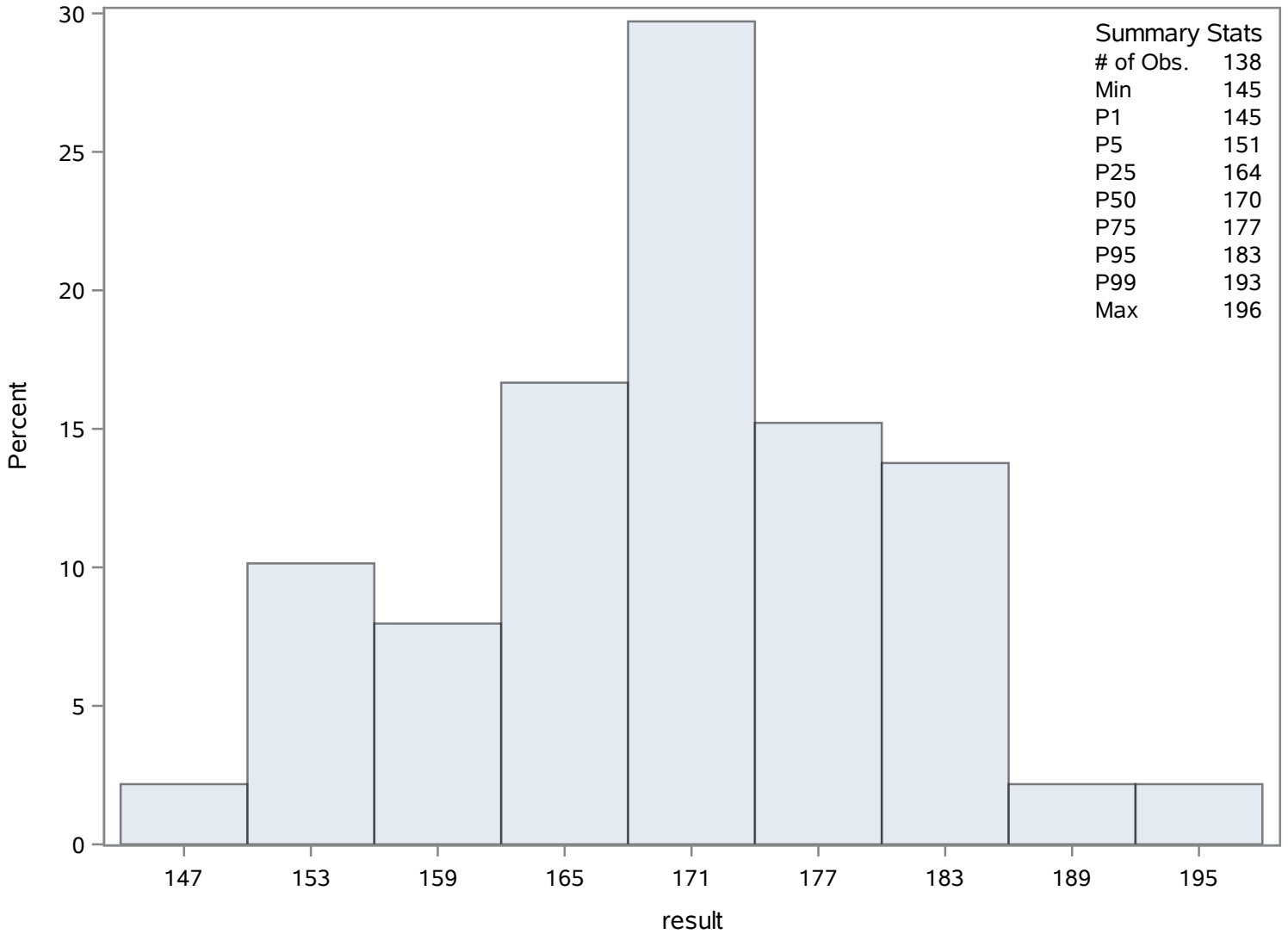
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
145	41	188	128
145	40	188	129
146	42	192	110
151	60	193	109
151	59	196	111

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.77611583	Sum Observations	659.103985
Std Deviation	3.91726096	Variance	15.3449335
Skewness	2.55886738	Kurtosis	8.49519385
Uncorrected SS	5250.21286	Corrected SS	2102.25588
Coeff Variation	82.0177128	Std Error Mean	0.3334594

Basic Statistical Measures			
Location		Variability	
Mean	4.776116	Std Deviation	3.91726
Median	3.469138	Variance	15.34493
Mode	2.000000	Range	25.88000
		Interquartile Range	3.30115

Note: The mode displayed is the smallest of 3 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.32293	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	26.48000
99%	18.44000
95%	13.38000
90%	9.30000
75% Q3	5.70115
50% Median	3.46914
25% Q1	2.40000
10%	1.87000
5%	1.52000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

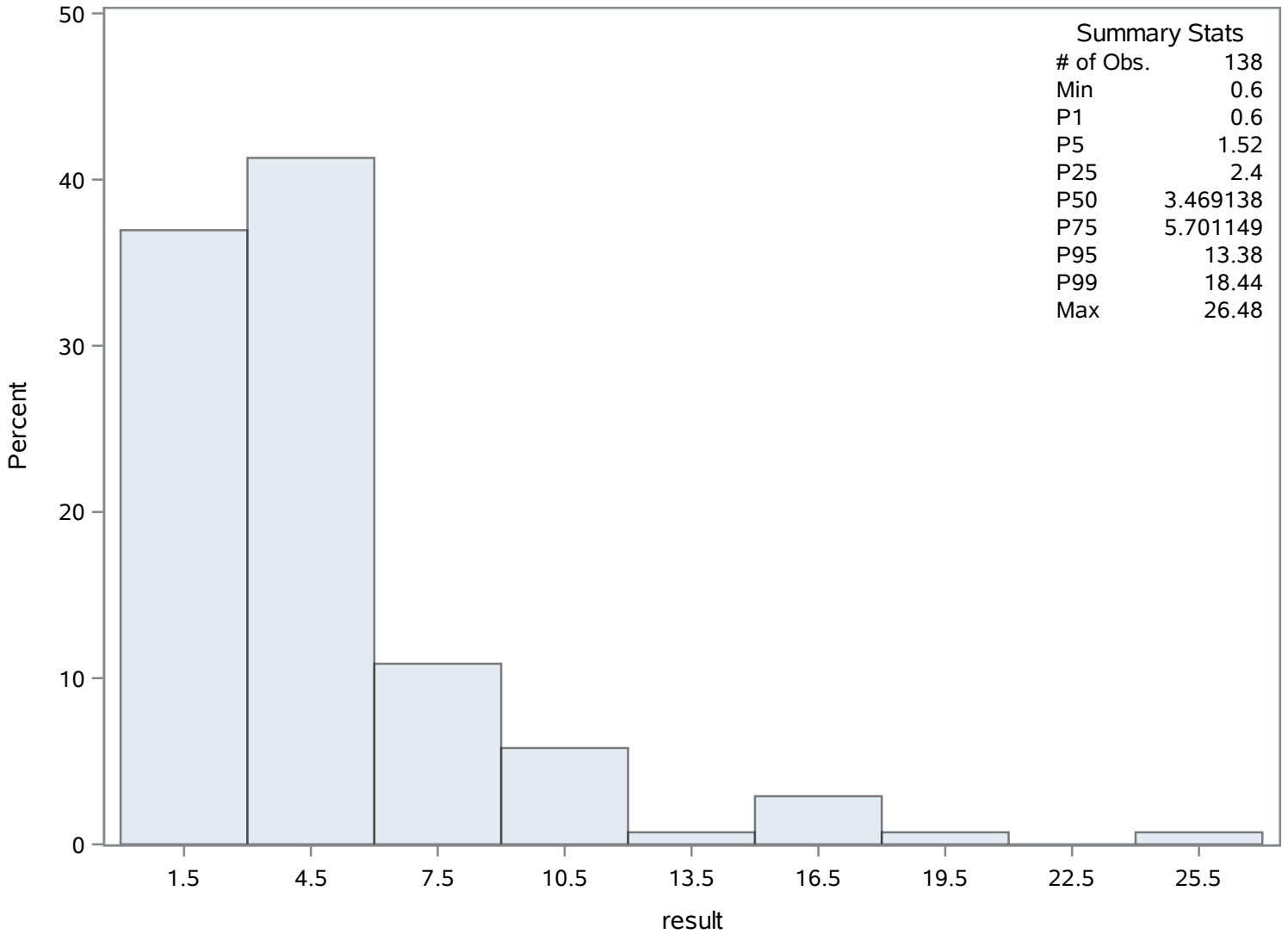
Quantiles (Definition 5)	
Level	Quantile
1%	0.60000
0% Min	0.60000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	204	16.83	245
0.6	203	16.92	247
0.6	202	17.10	244
1.2	146	18.44	246
1.3	145	26.48	248

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	4.38197594	Sum Observations	315.502268
Std Deviation	4.3547824	Variance	18.9641297
Skewness	2.53207381	Kurtosis	7.20025479
Uncorrected SS	2728.97656	Corrected SS	1346.45321
Coeff Variation	99.3794228	Std Error Mean	0.51321603

Basic Statistical Measures			
Location		Variability	
Mean	4.381976	Std Deviation	4.35478
Median	2.960686	Variance	18.96413
Mode	1.680000	Range	23.91138
		Interquartile Range	2.95742

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.538268	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.47000
99%	24.47000
95%	15.42000
90%	8.82620
75% Q3	4.74500
50% Median	2.96069
25% Q1	1.78758
10%	1.34000
5%	1.22896
1%	0.55862
0% Min	0.55862

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_cor_ugl

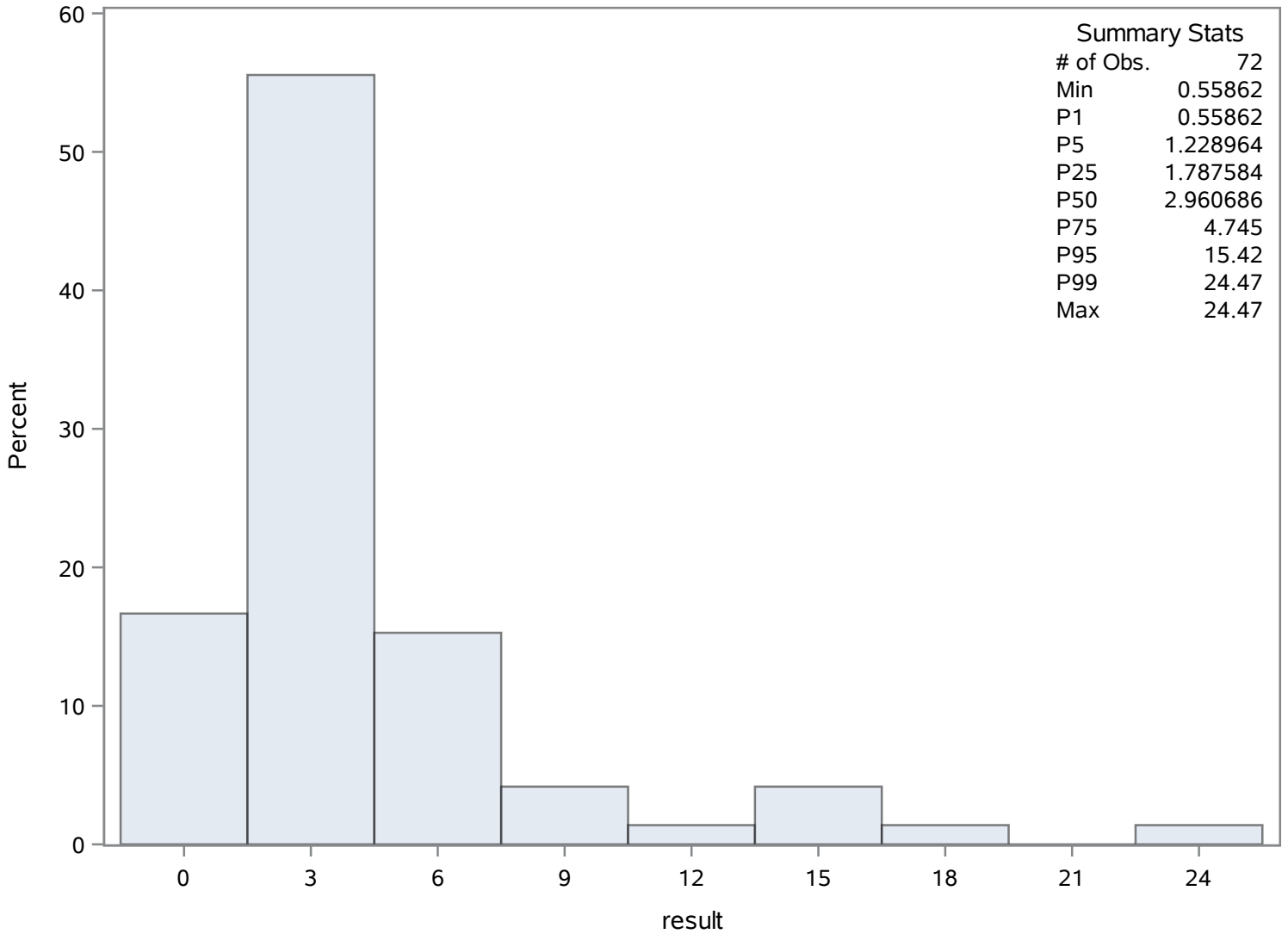
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.55862	312	15.42	317
1.01000	339	15.42	319
1.01000	338	15.98	316
1.22896	294	16.98	318
1.23000	326	24.47	320

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	26.6884058	Sum Observations	3683
Std Deviation	13.6300445	Variance	185.778113
Skewness	1.24898312	Kurtosis	1.78894052
Uncorrected SS	123745	Corrected SS	25451.6014
Coeff Variation	51.0710328	Std Error Mean	1.16026644

Basic Statistical Measures			
Location		Variability	
Mean	26.68841	Std Deviation	13.63004
Median	24.50000	Variance	185.77811
Mode	15.00000	Range	67.00000
		Interquartile Range	19.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.00196	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	77.0
99%	73.0
95%	55.0
90%	44.0
75% Q3	34.0
50% Median	24.5
25% Q1	15.0
10%	13.0
5%	11.0
1%	10.0
0% Min	10.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
COLOR_PtCo

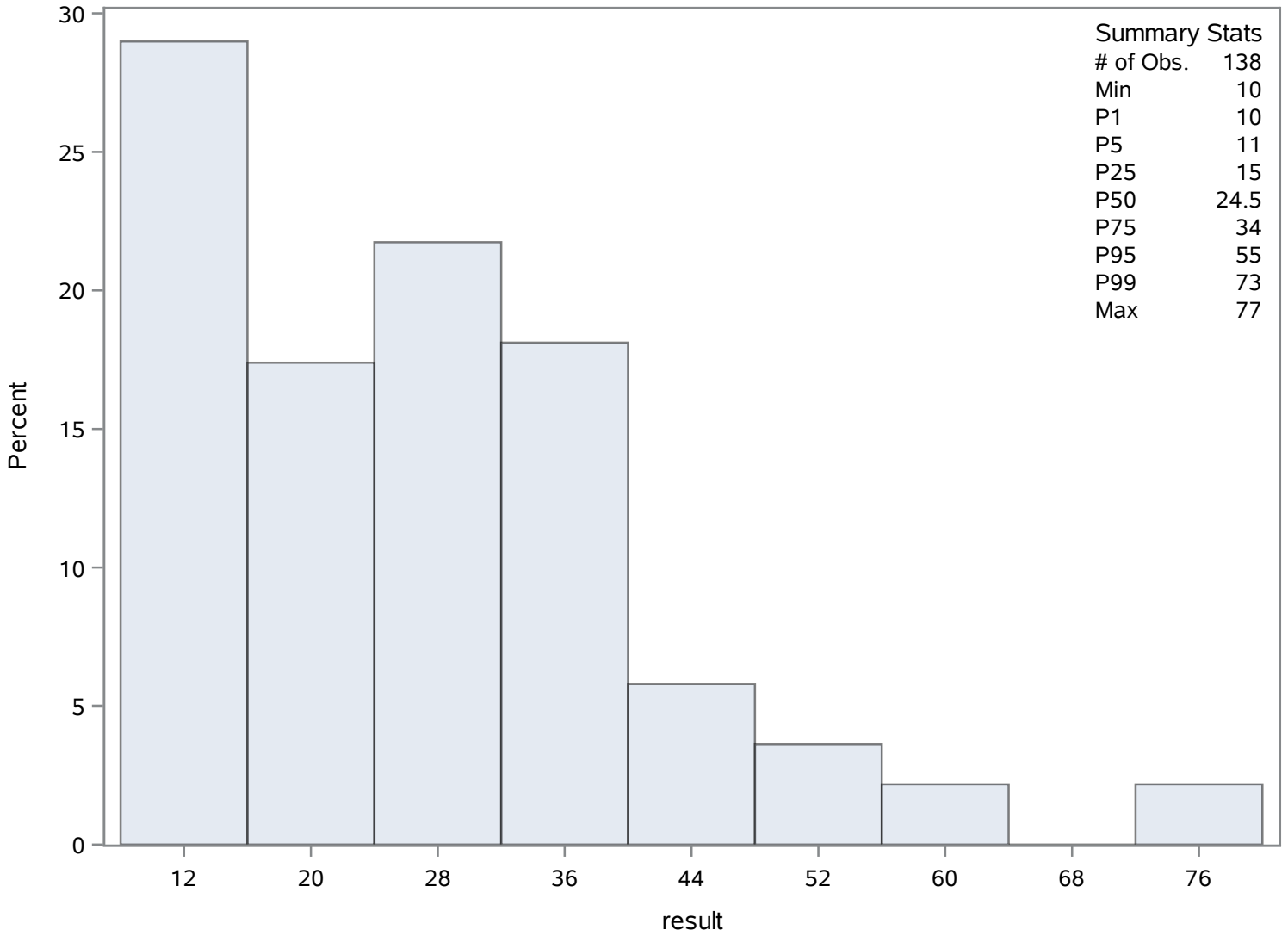
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	452	56	470
10	451	57	387
11	453	72	434
11	369	73	435
11	368	77	433

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.41601449	Sum Observations	885.41
Std Deviation	1.65873646	Variance	2.75140663
Skewness	0.01271088	Kurtosis	-0.6087931
Uncorrected SS	6057.7461	Corrected SS	376.942708
Coeff Variation	25.8530659	Std Error Mean	0.14120102

Basic Statistical Measures			
Location		Variability	
Mean	6.416014	Std Deviation	1.65874
Median	6.580000	Variance	2.75141
Mode	4.800000	Range	6.99000
		Interquartile Range	2.50000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	45.43887	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.19
99%	10.01
95%	9.10
90%	8.60
75% Q3	7.60
50% Median	6.58
25% Q1	5.10
10%	4.23
5%	3.50

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
DO_mgL

The UNIVARIATE Procedure
Variable: result

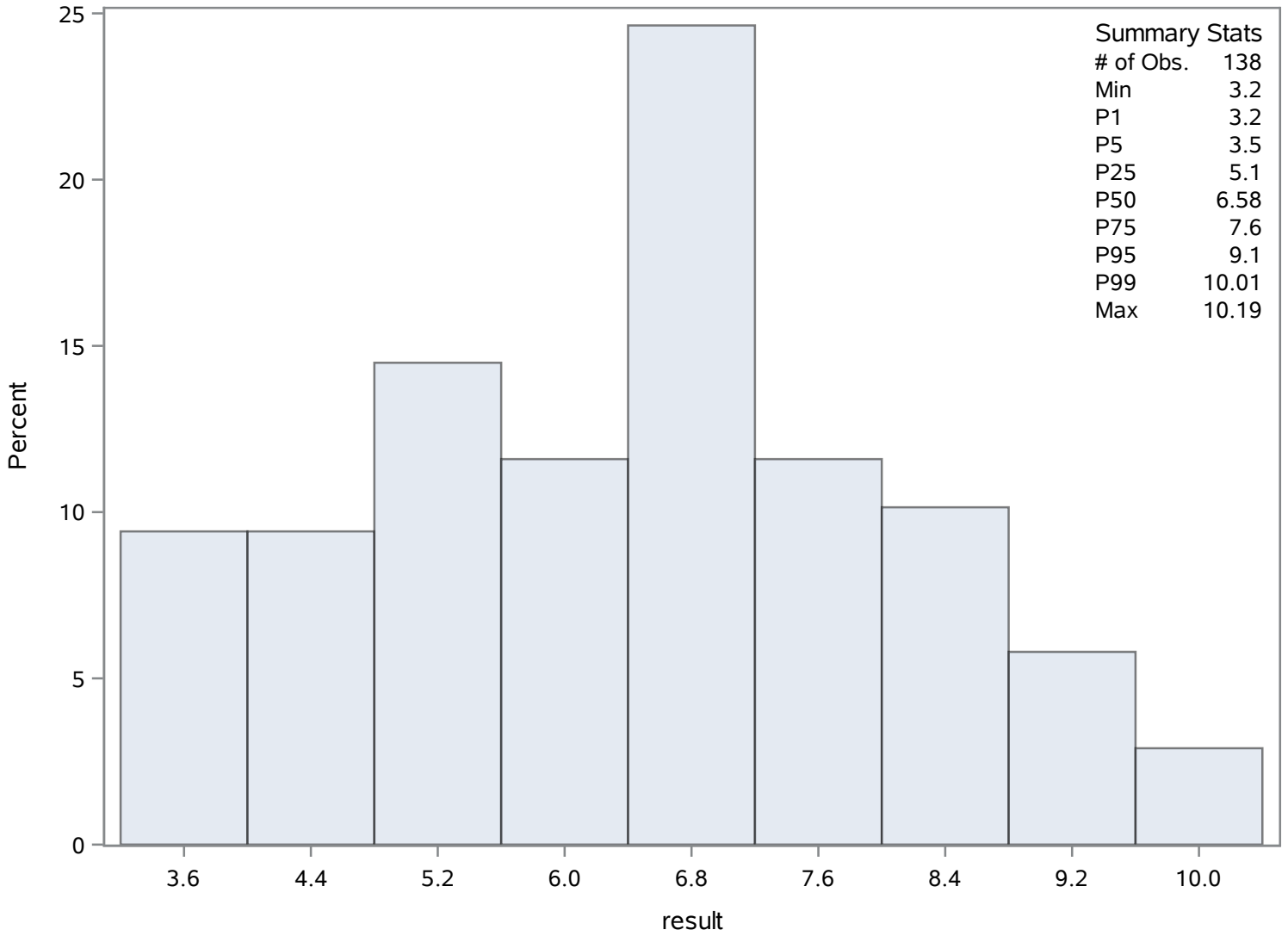
Quantiles (Definition 5)	
Level	Quantile
1%	3.20
0% Min	3.20

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.2	513	9.21	519
3.2	511	9.81	615
3.3	512	10.00	495
3.3	501	10.01	614
3.4	500	10.19	613

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	31.7313869	Sum Observations	4347.2
Std Deviation	19.3700297	Variance	375.198052
Skewness	1.72715082	Kurtosis	5.95498703
Uncorrected SS	188969.62	Corrected SS	51026.935
Coeff Variation	61.043754	Std Error Mean	1.65489332

Basic Statistical Measures			
Location		Variability	
Mean	31.73139	Std Deviation	19.37003
Median	29.00000	Variance	375.19805
Mode	15.00000	Range	129.00000
		Interquartile Range	25.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	19.17428	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	131
99%	102
95%	59
90%	50
75% Q3	42
50% Median	29
25% Q1	17
10%	12
5%	7
1%	3
0% Min	2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NH4_ugl

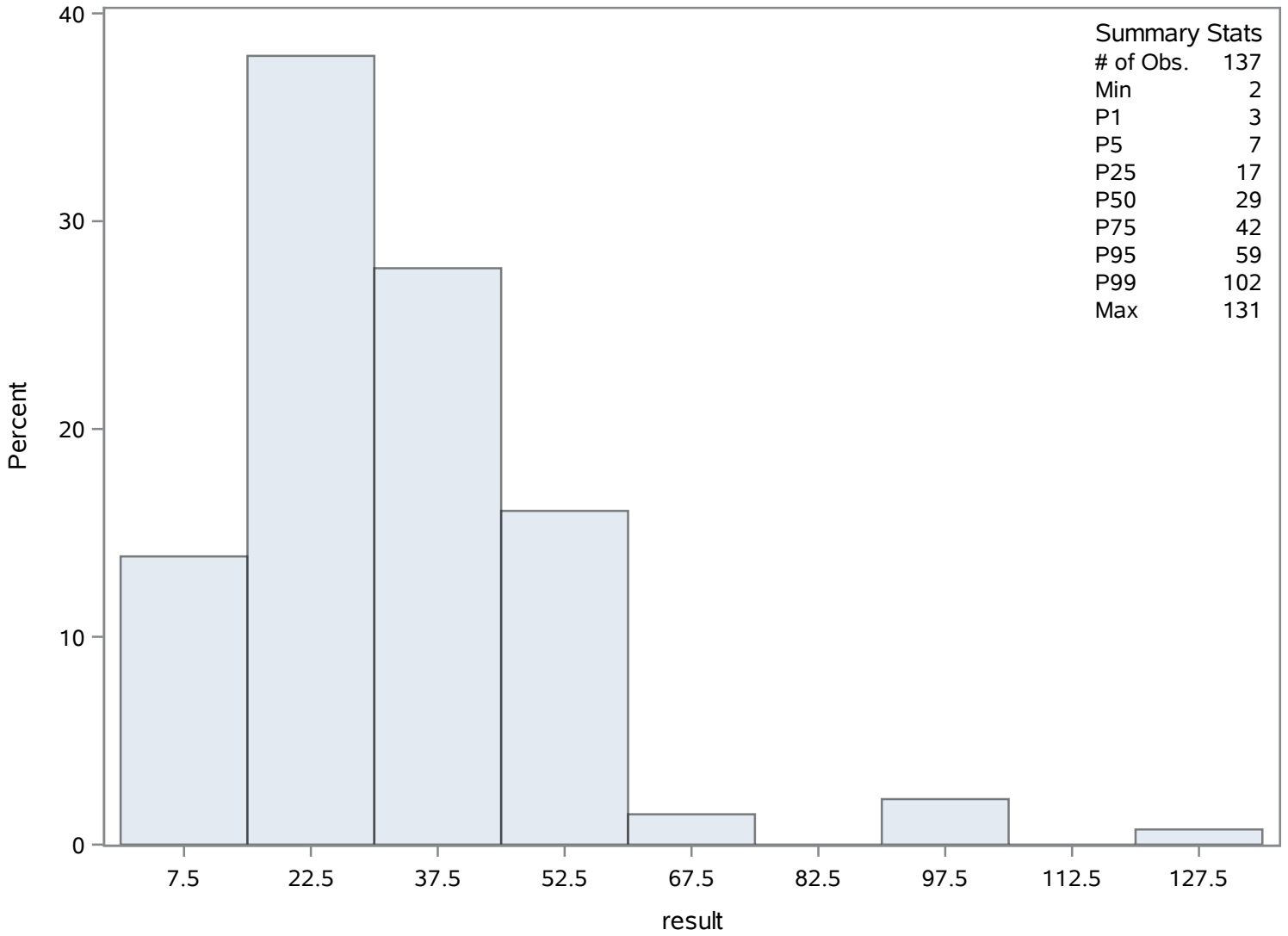
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	653	63	700
3	695	94	761
3	694	95	760
3	654	102	759
3	652	131	628

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	94.4810219	Sum Observations	12943.9
Std Deviation	76.5492936	Variance	5859.79434
Skewness	0.90682832	Kurtosis	0.104767
Uncorrected SS	2019884.93	Corrected SS	796932.031
Coeff Variation	81.0208146	Std Error Mean	6.54004751

Basic Statistical Measures			
Location		Variability	
Mean	94.48102	Std Deviation	76.54929
Median	81.00000	Variance	5860
Mode	23.00000	Range	283.00000
		Interquartile Range	106.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.44653	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	286
99%	286
95%	273
90%	215
75% Q3	129
50% Median	81
25% Q1	23
10%	11
5%	8
1%	6
0% Min	3

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NO3_ugL

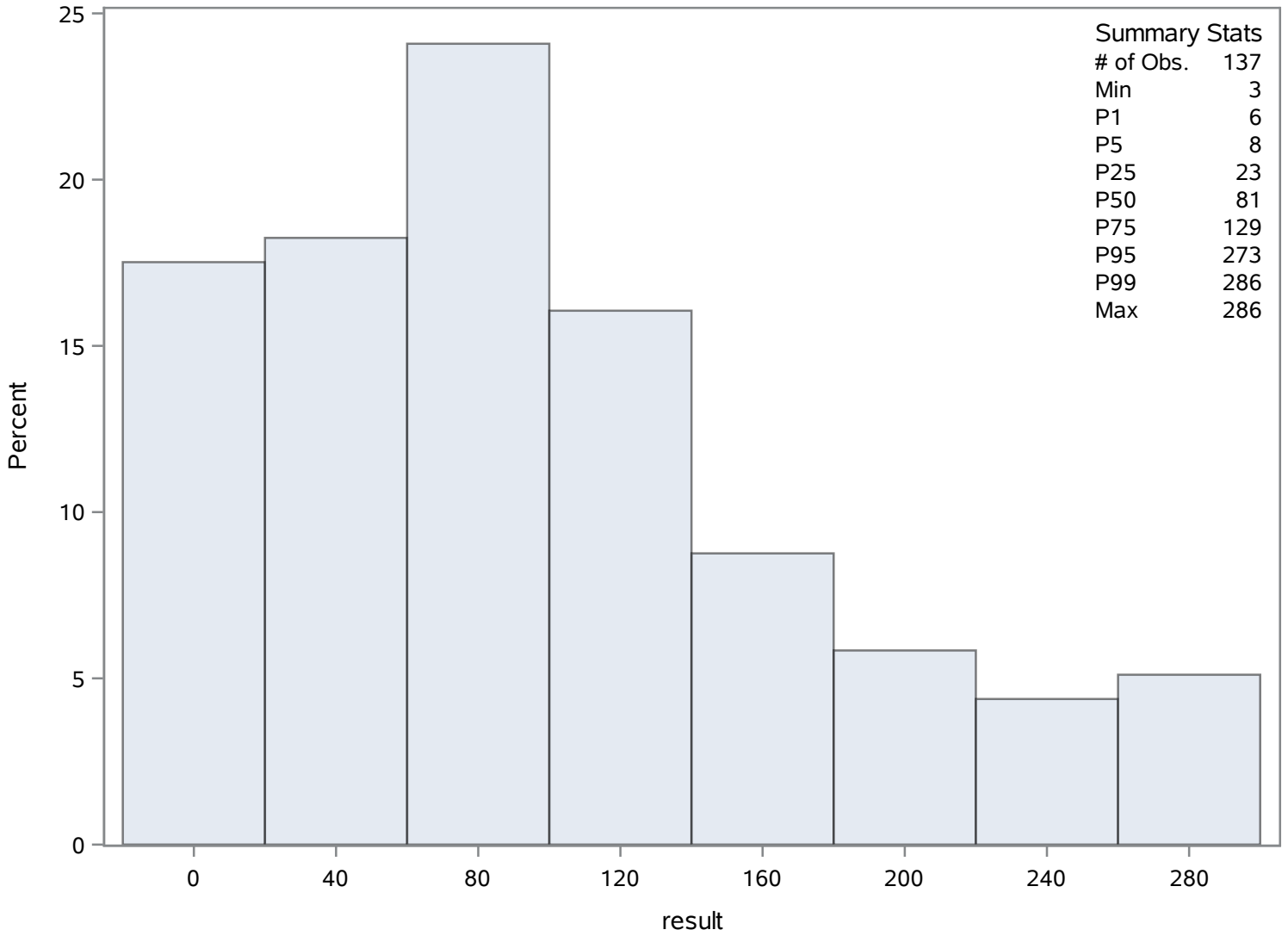
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	764	282	894
6	884	282	897
6	881	285	817
7	771	286	895
8	773	286	898

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.89811594	Sum Observations	1089.94
Std Deviation	4.13361748	Variance	17.0867935
Skewness	1.19633315	Kurtosis	1.1690098
Uncorrected SS	10949.3632	Corrected SS	2340.89071
Coeff Variation	52.3367537	Std Error Mean	0.35187689

Basic Statistical Measures			
Location		Variability	
Mean	7.898116	Std Deviation	4.13362
Median	7.125000	Variance	17.08679
Mode	5.900000	Range	18.19000
		Interquartile Range	4.43000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	22.44568	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	20.200
99%	19.960
95%	16.600
90%	15.460
75% Q3	9.110
50% Median	7.125
25% Q1	4.680
10%	3.500
5%	3.050
1%	2.100
0% Min	2.010

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SAL_Perc

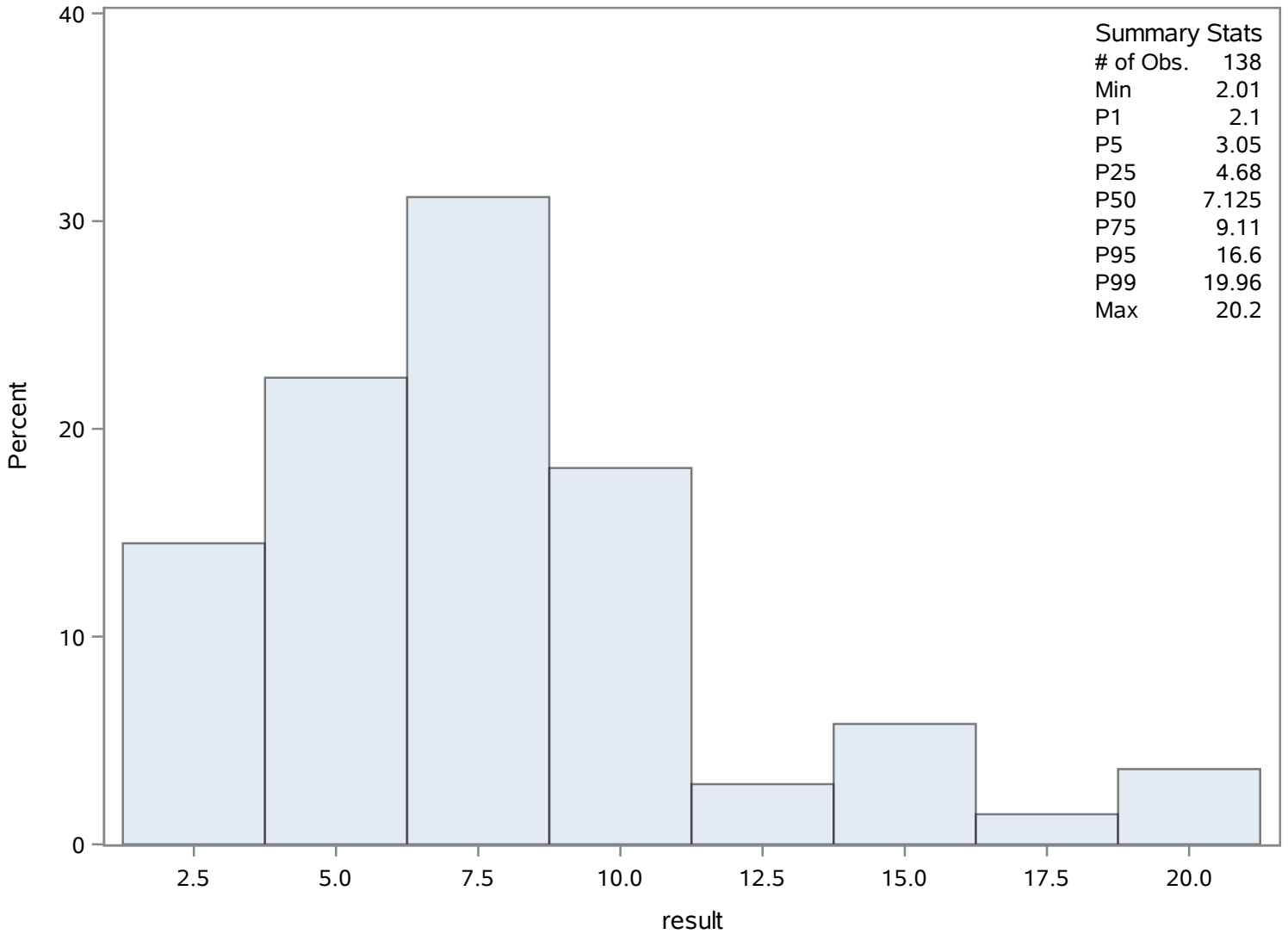
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.01	936	19.27	1012
2.10	935	19.58	980
2.64	962	19.61	981
2.74	963	19.96	982
2.98	964	20.20	1011

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	13.5911884	Sum Observations	1875.584
Std Deviation	6.59848586	Variance	43.5400156
Skewness	1.04004974	Kurtosis	0.76086014
Uncorrected SS	31456.3977	Corrected SS	5964.98214
Coeff Variation	48.5497343	Std Error Mean	0.56170042

Basic Statistical Measures			
Location		Variability	
Mean	13.59119	Std Deviation	6.59849
Median	12.35000	Variance	43.54002
Mode	6.30000	Range	28.44000
		Interquartile Range	7.14000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.19651	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.27
99%	31.98
95%	27.23
90%	25.44
75% Q3	15.61
50% Median	12.35
25% Q1	8.47
10%	6.30
5%	5.08

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

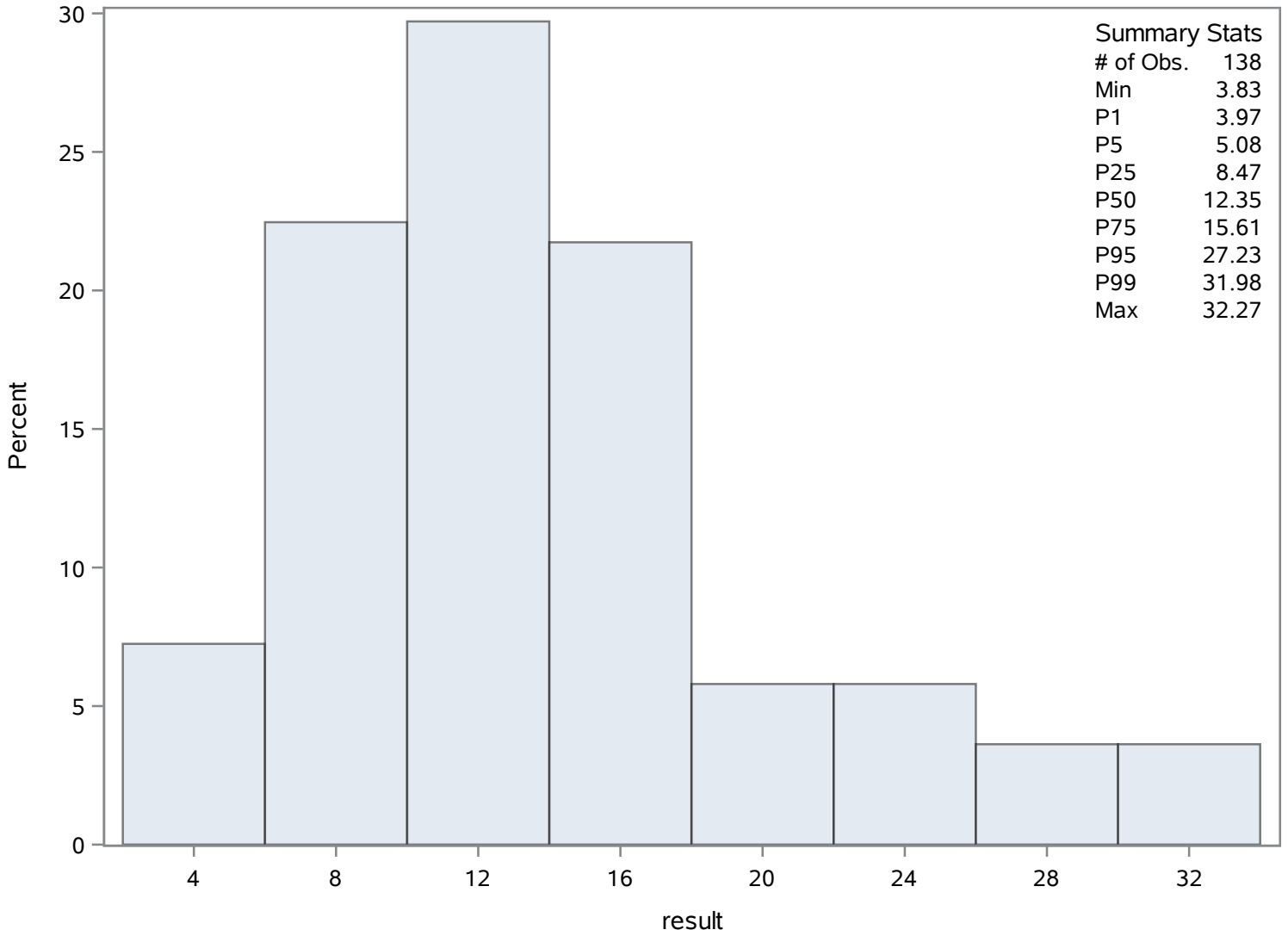
Quantiles (Definition 5)	
Level	Quantile
1%	3.97
0% Min	3.83

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.83	1074	31.47	1118
3.97	1073	31.53	1119
4.88	1067	31.57	1150
4.89	1100	31.98	1120
4.94	1068	32.27	1149

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	5.2666667	Sum Observations	711
Std Deviation	3.51160124	Variance	12.3313433
Skewness	0.90289939	Kurtosis	0.31158053
Uncorrected SS	5397	Corrected SS	1652.4
Coeff Variation	66.675973	Std Error Mean	0.30223051

Basic Statistical Measures			
Location		Variability	
Mean	5.266667	Std Deviation	3.51160
Median	5.000000	Variance	12.33134
Mode	2.000000	Range	15.00000
		Interquartile Range	5.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.42599	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16
99%	15
95%	13
90%	10
75% Q3	7
50% Median	5
25% Q1	2
10%	1
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SRP_ugL

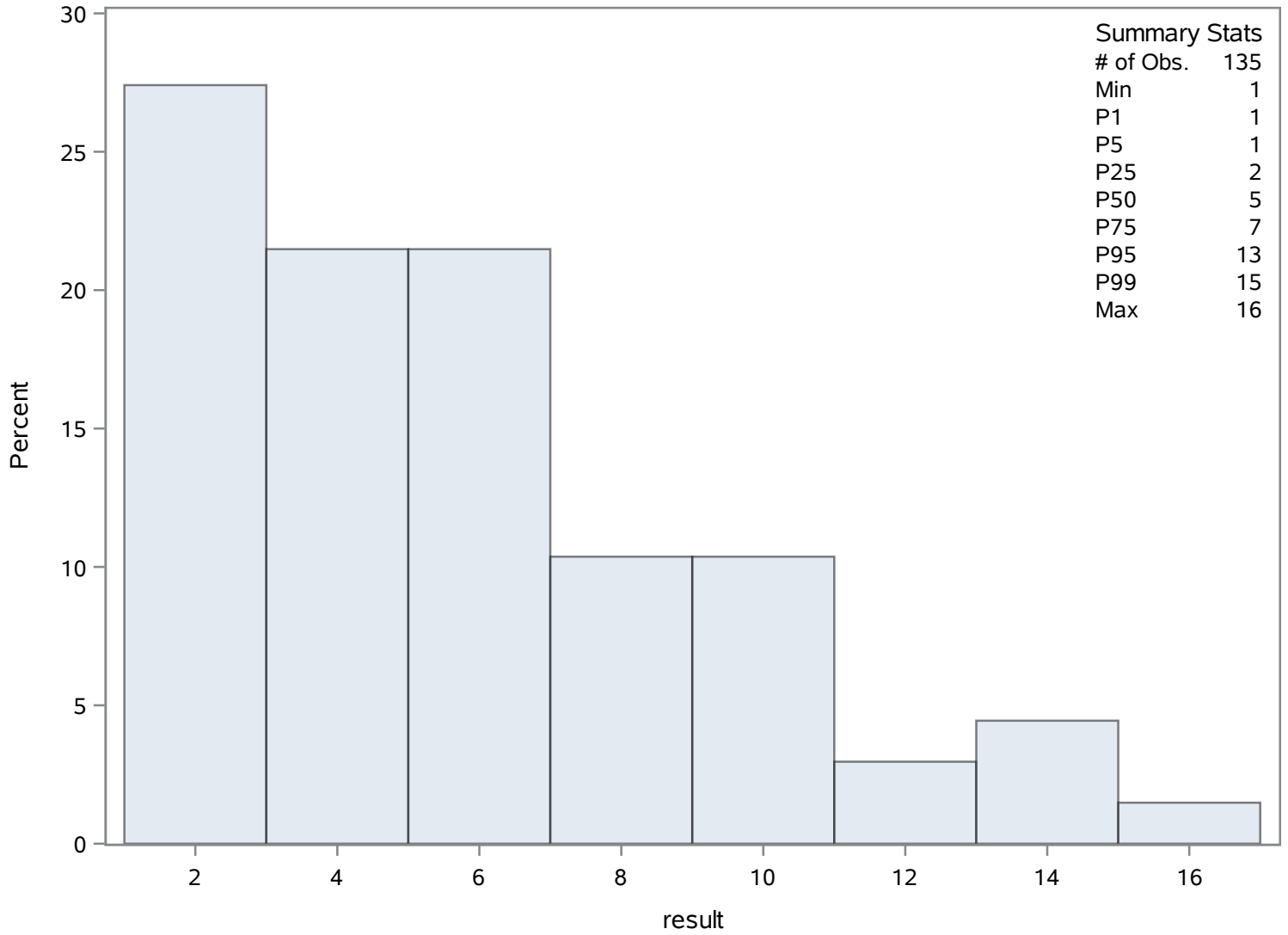
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1254	13	1305
1	1252	14	1236
1	1251	14	1307
1	1250	15	1308
1	1242	16	1309

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.4797101	Sum Observations	3240.2
Std Deviation	5.30426353	Variance	28.1352116
Skewness	0.01494078	Kurtosis	-1.3210082
Uncorrected SS	79933.4808	Corrected SS	3854.52399
Coeff Variation	22.5908391	Std Error Mean	0.4515289

Basic Statistical Measures			
Location		Variability	
Mean	23.47971	Std Deviation	5.30426
Median	22.03000	Variance	28.13521
Mode	18.80000	Range	18.34000
		Interquartile Range	9.86000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	52.00046	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.14
99%	31.86
95%	31.49
90%	30.30
75% Q3	28.66
50% Median	22.03
25% Q1	18.80
10%	16.93
5%	14.71

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TEMP_C

The UNIVARIATE Procedure
Variable: result

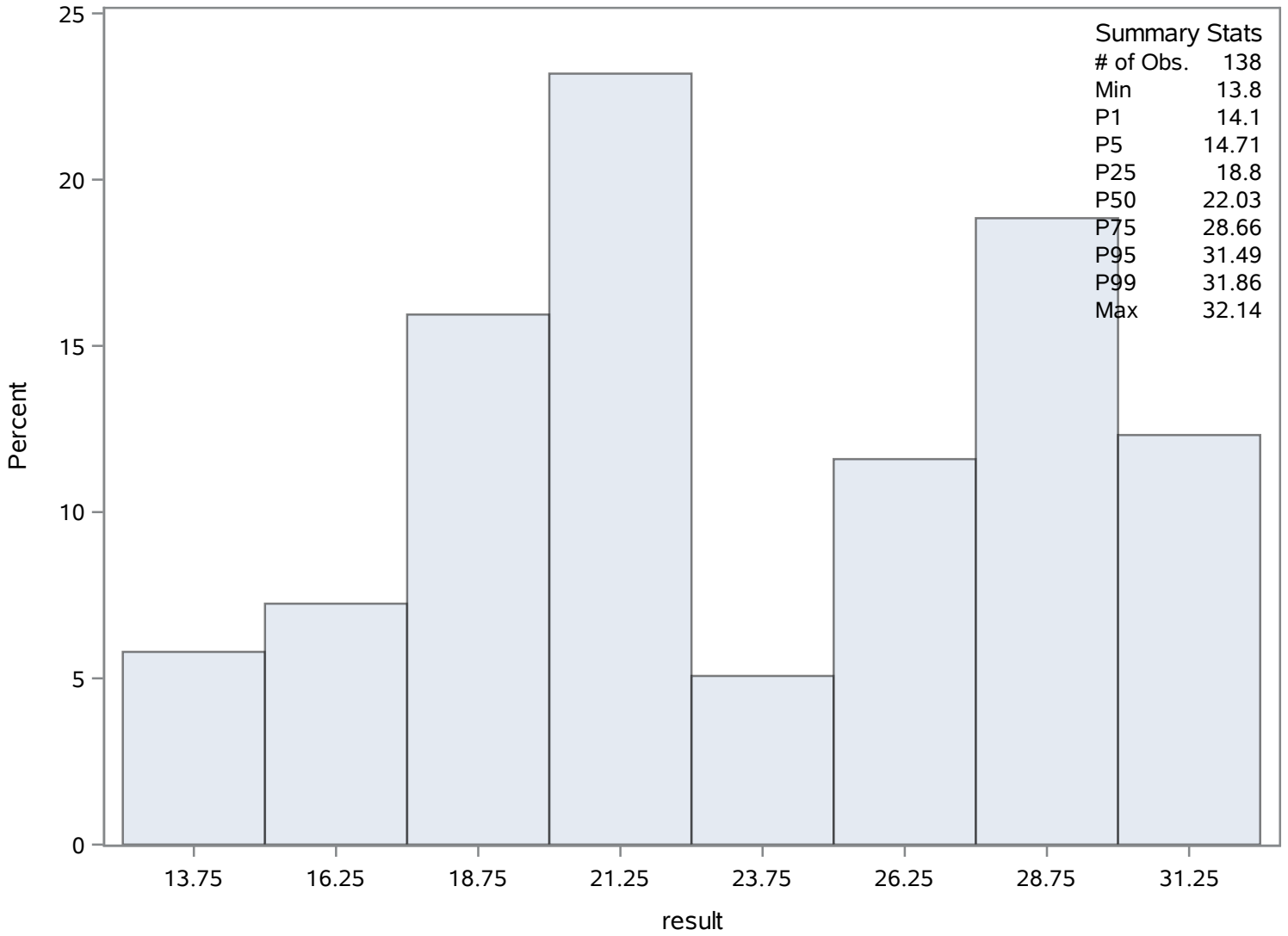
Quantiles (Definition 5)	
Level	Quantile
1%	14.10
0% Min	13.80

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.80	1337	31.72	1430
14.10	1338	31.74	1431
14.20	1339	31.82	1395
14.28	1425	31.86	1396
14.30	1424	32.14	1394

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	455.355072	Sum Observations	62839
Std Deviation	125.307959	Variance	15702.0847
Skewness	0.86066023	Kurtosis	0.60172596
Uncorrected SS	30765243	Corrected SS	2151185.6
Coeff Variation	27.5187358	Std Error Mean	10.6669219

Basic Statistical Measures			
Location		Variability	
Mean	455.3551	Std Deviation	125.30796
Median	430.0000	Variance	15702
Mode	530.0000	Range	620.00000
		Interquartile Range	170.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	42.68852	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	880
99%	810
95%	680
90%	650
75% Q3	530
50% Median	430
25% Q1	360
10%	310
5%	290
1%	270
0% Min	260

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TN_ugl

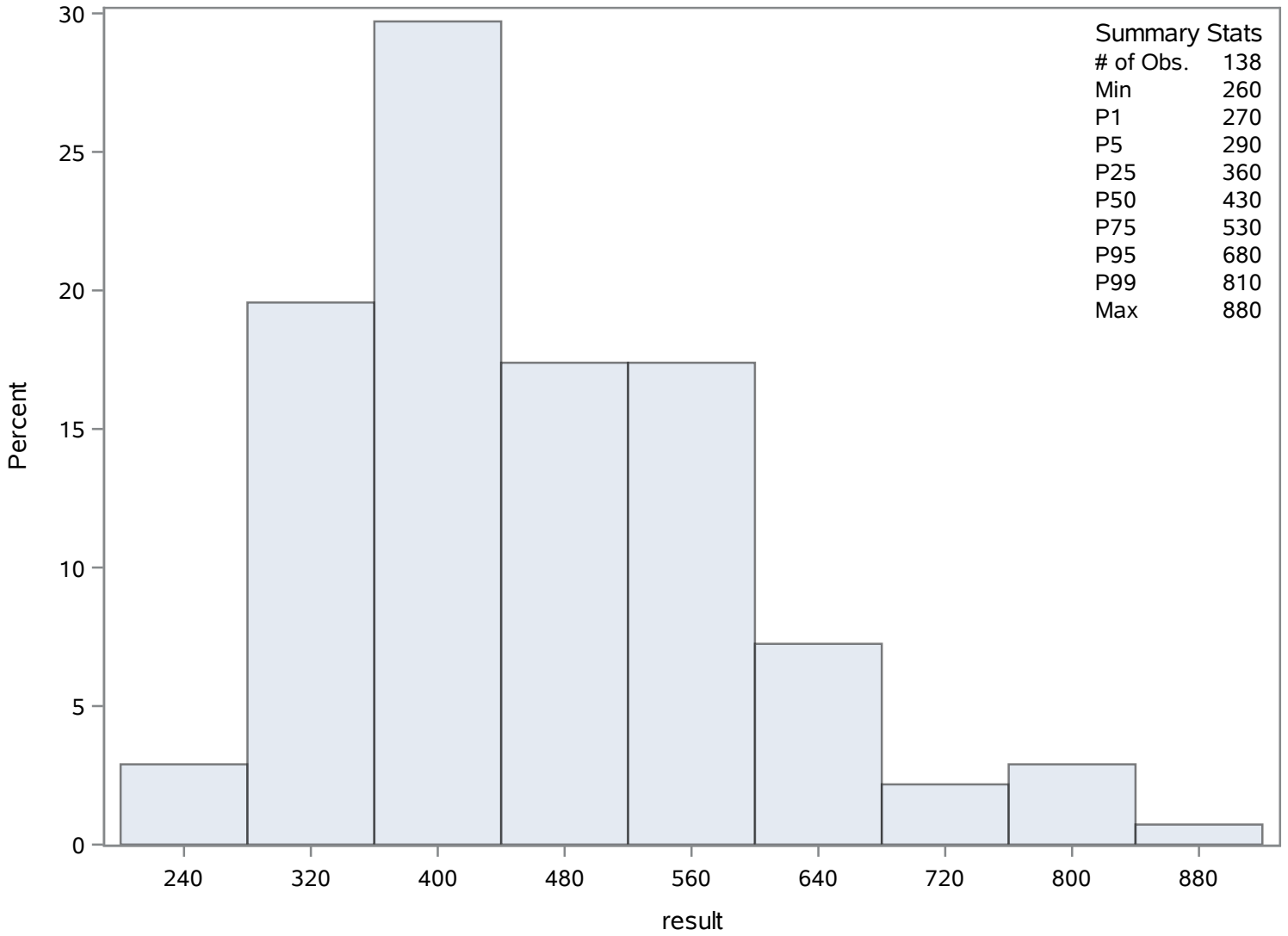
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
260	1514	760	1554
270	1576	770	1534
270	1516	774	1553
270	1515	810	1533
280	1475	880	1532

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	22.2391304	Sum Observations	3069
Std Deviation	8.06502257	Variance	65.044589
Skewness	2.22752591	Kurtosis	8.20796568
Uncorrected SS	77163	Corrected SS	8911.1087
Coeff Variation	36.2650086	Std Error Mean	0.68654031

Basic Statistical Measures			
Location		Variability	
Mean	22.23913	Std Deviation	8.06502
Median	21.00000	Variance	65.04459
Mode	19.00000	Range	56.00000
		Interquartile Range	9.00000

Note: The mode displayed is the smallest of 2 modes with a count of 13.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.39304	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	66
99%	56
95%	37
90%	31
75% Q3	26
50% Median	21
25% Q1	17
10%	15
5%	13

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TP_ugl

The UNIVARIATE Procedure
Variable: result

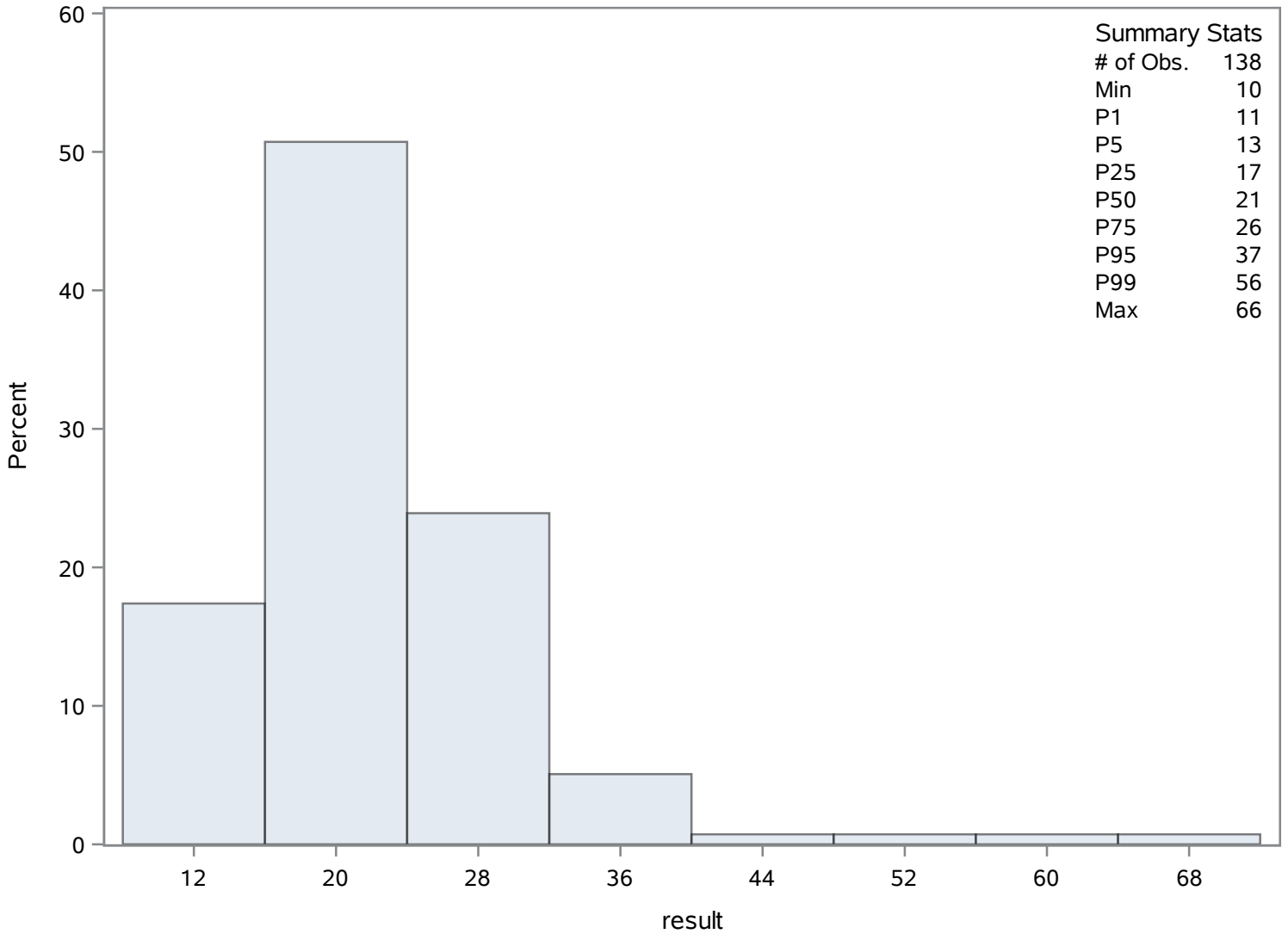
Quantiles (Definition 5)	
Level	Quantile
1%	11
0% Min	10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	1713	39	1691
11	1714	42	1694
11	1712	51	1693
12	1625	56	1692
13	1666	66	1695

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.81462963	Sum Observations	843.98
Std Deviation	0.20260189	Variance	0.04104753
Skewness	0.19307149	Kurtosis	-0.5970135
Uncorrected SS	6599.7832	Corrected SS	4.39208519
Coeff Variation	2.59259745	Std Error Mean	0.01949538

Basic Statistical Measures			
Location		Variability	
Mean	7.814630	Std Deviation	0.20260
Median	7.795000	Variance	0.04105
Mode	7.900000	Range	0.88000
		Interquartile Range	0.23000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	400.8453	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.210
99%	8.190
95%	8.160
90%	8.120
75% Q3	7.915
50% Median	7.795
25% Q1	7.685
10%	7.560
5%	7.520
1%	7.450
0% Min	7.330

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Field

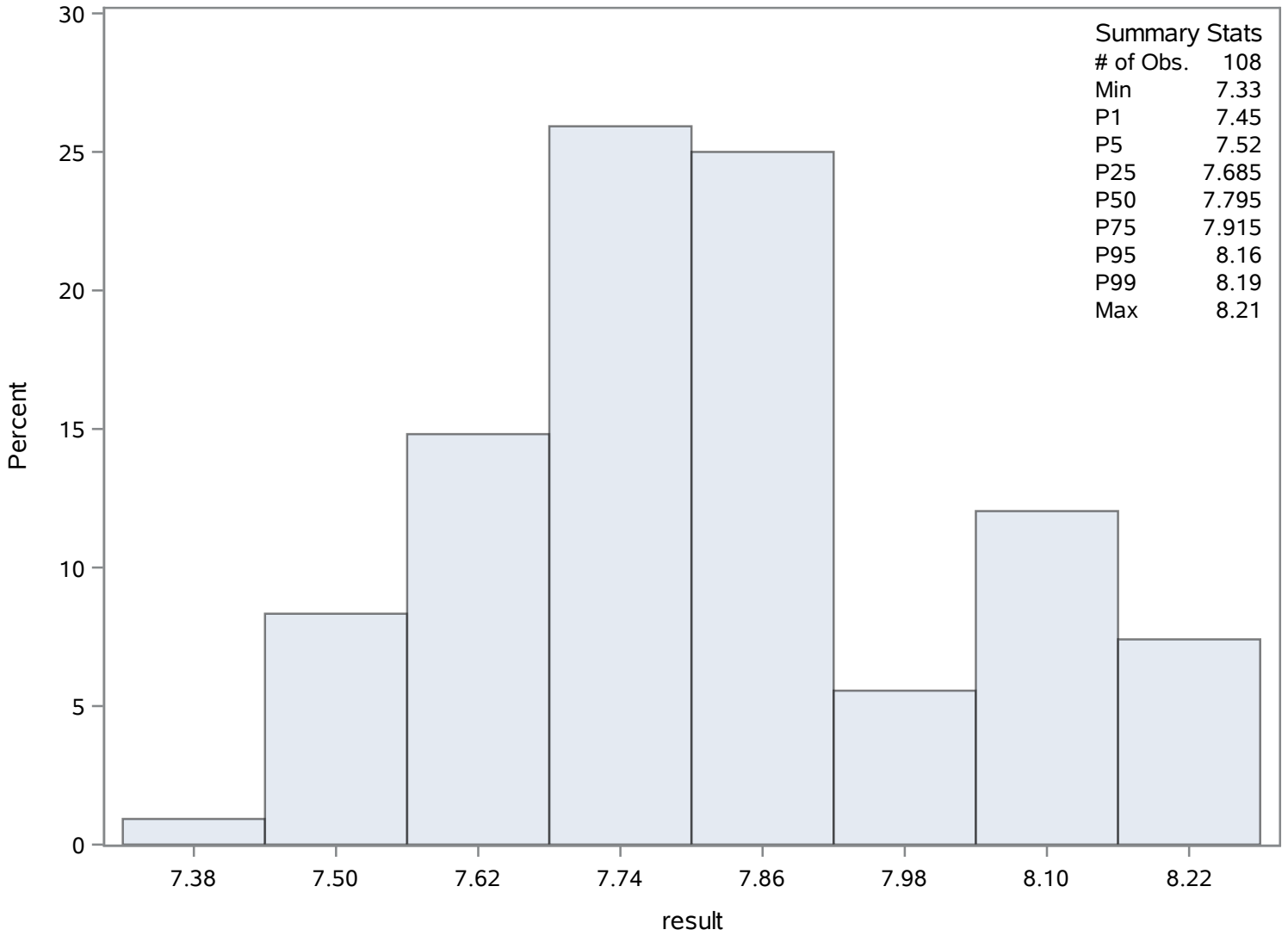
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.33	1817	8.17	1782
7.45	1788	8.18	1822
7.45	1787	8.19	1781
7.48	1789	8.19	1821
7.49	1790	8.21	1820

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.91449275	Sum Observations	1092.2
Std Deviation	0.14626779	Variance	0.02139427
Skewness	1.46306468	Kurtosis	3.86531633
Uncorrected SS	8647.14	Corrected SS	2.93101449
Coeff Variation	1.84810062	Std Error Mean	0.01245114

Basic Statistical Measures			
Location		Variability	
Mean	7.914493	Std Deviation	0.14627
Median	7.900000	Variance	0.02139
Mode	7.800000	Range	0.80000
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	635.644	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.5
99%	8.5
95%	8.1
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.8
5%	7.7
1%	7.7
0% Min	7.7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Lab

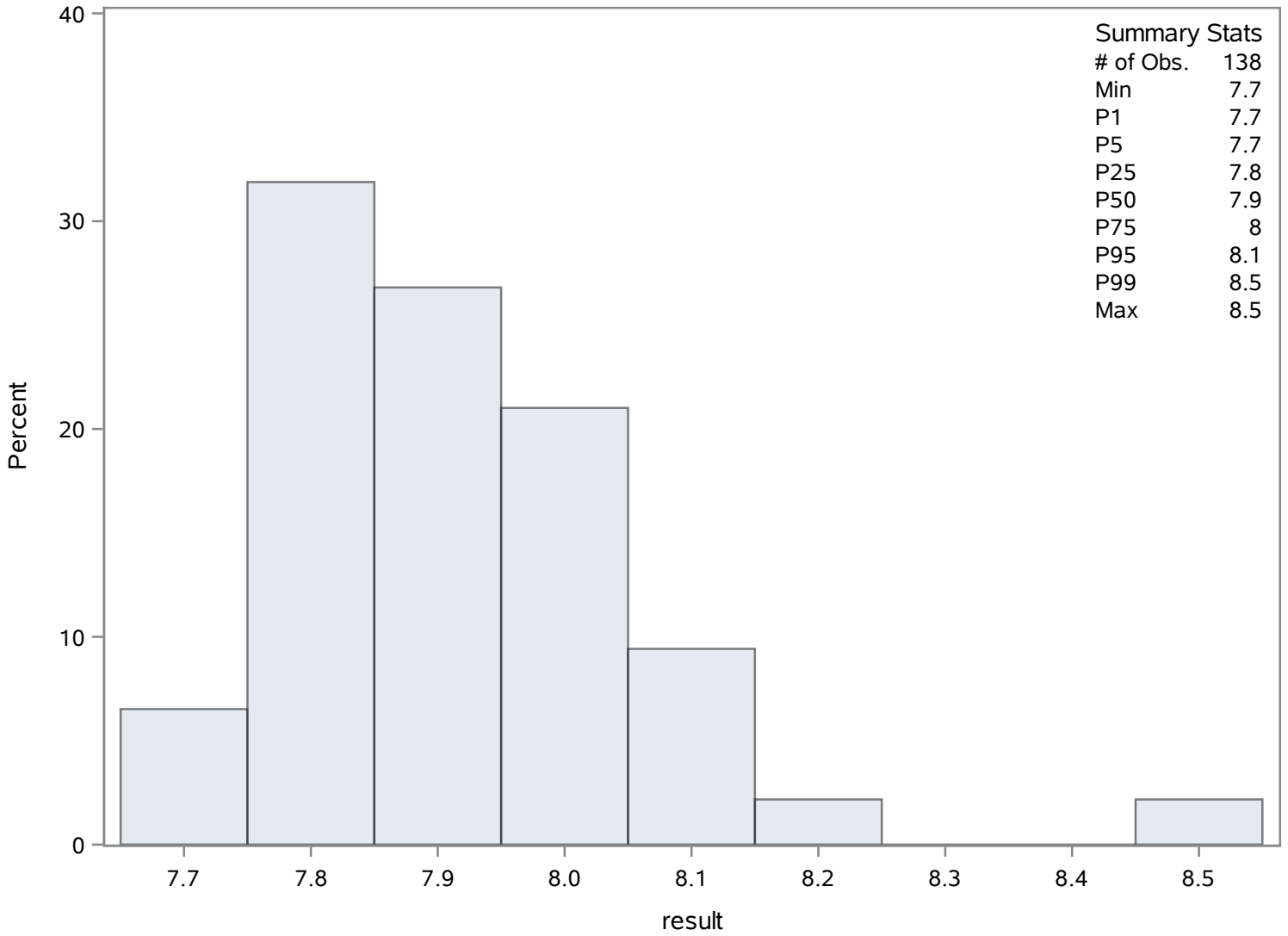
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.7	1965	8.2	1959
7.7	1964	8.2	1960
7.7	1954	8.5	1955
7.7	1915	8.5	1956
7.7	1914	8.5	1957

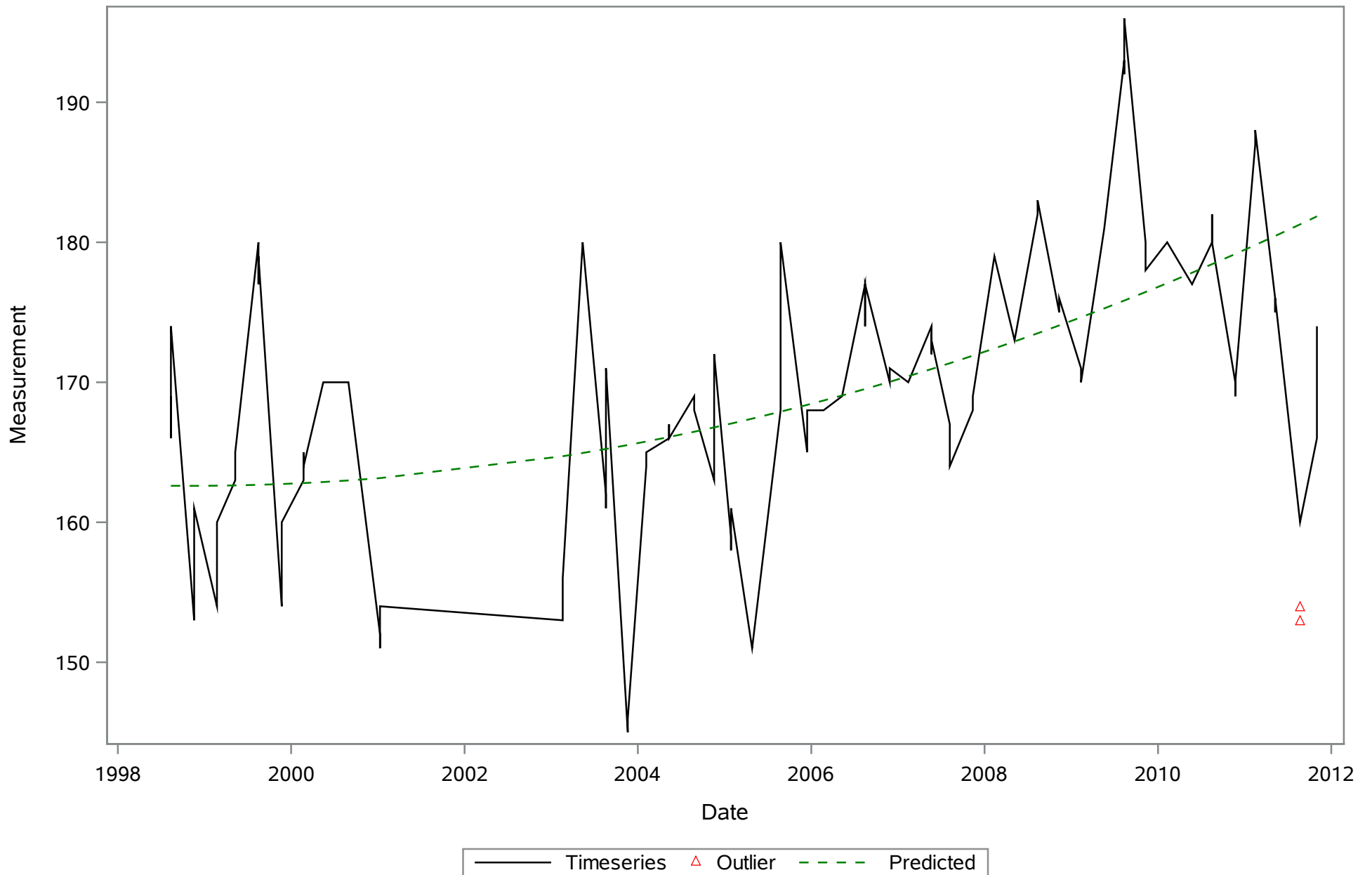
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Lab

The UNIVARIATE Procedure

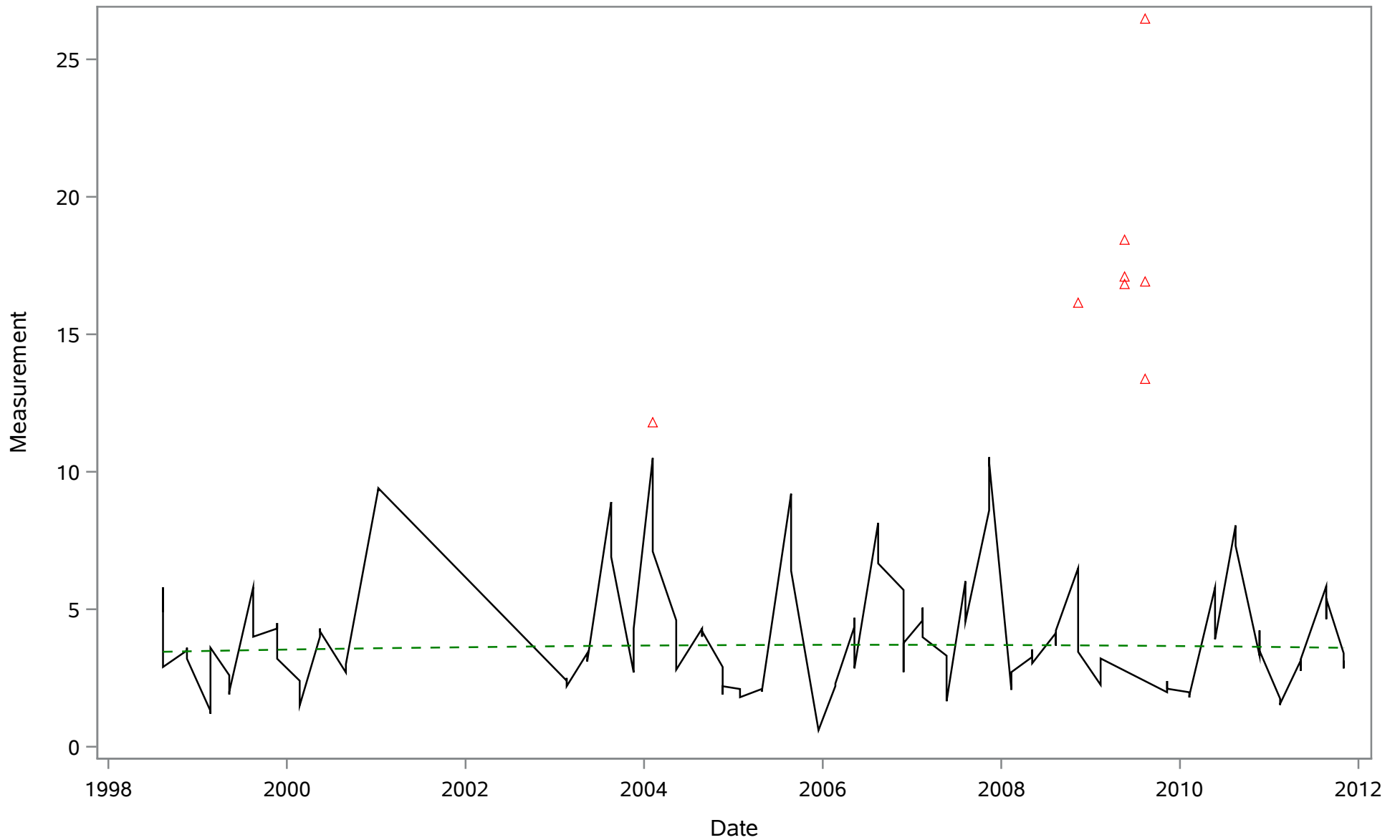
Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
ALK_tot_mgL

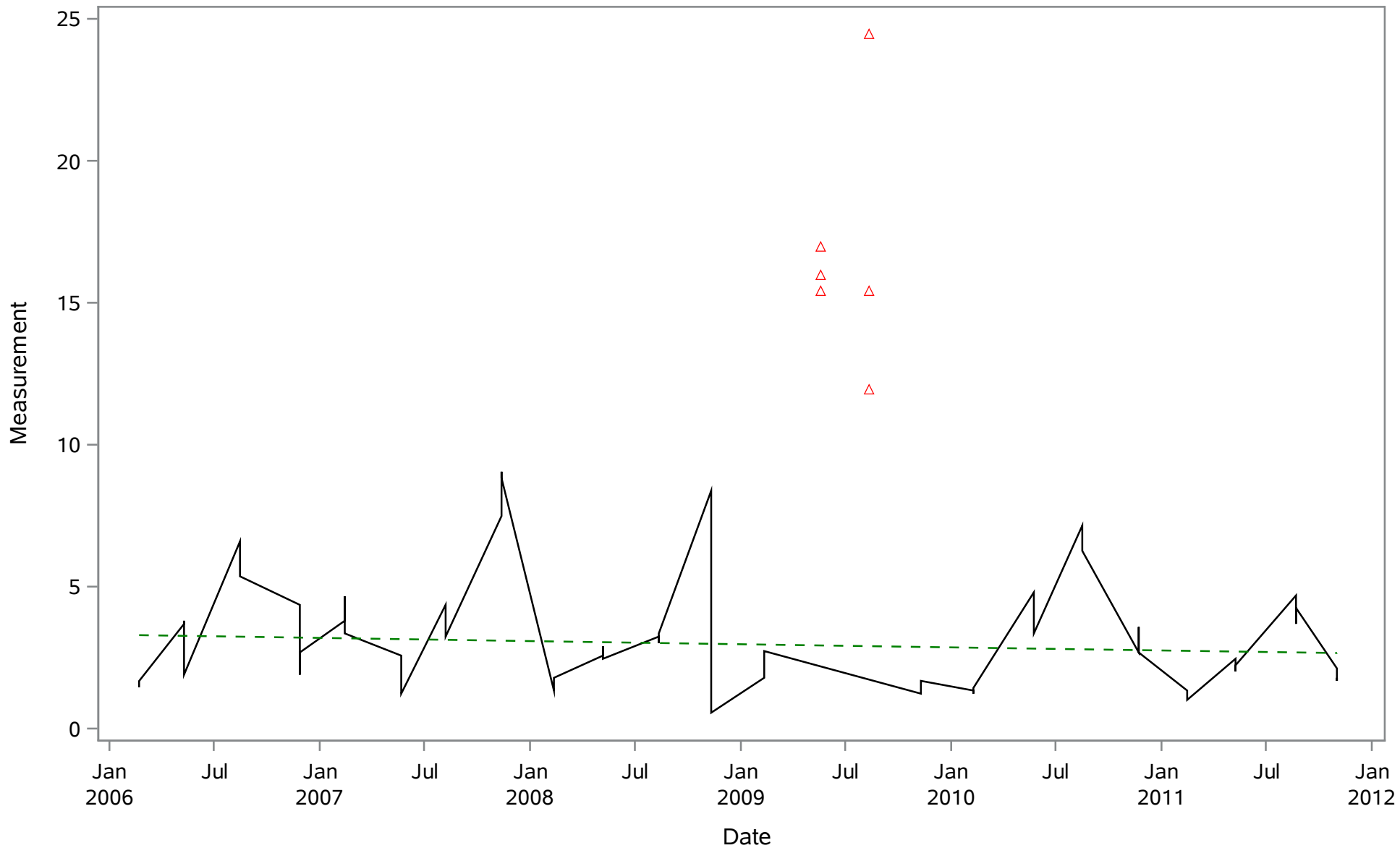


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_Uncor_ugL



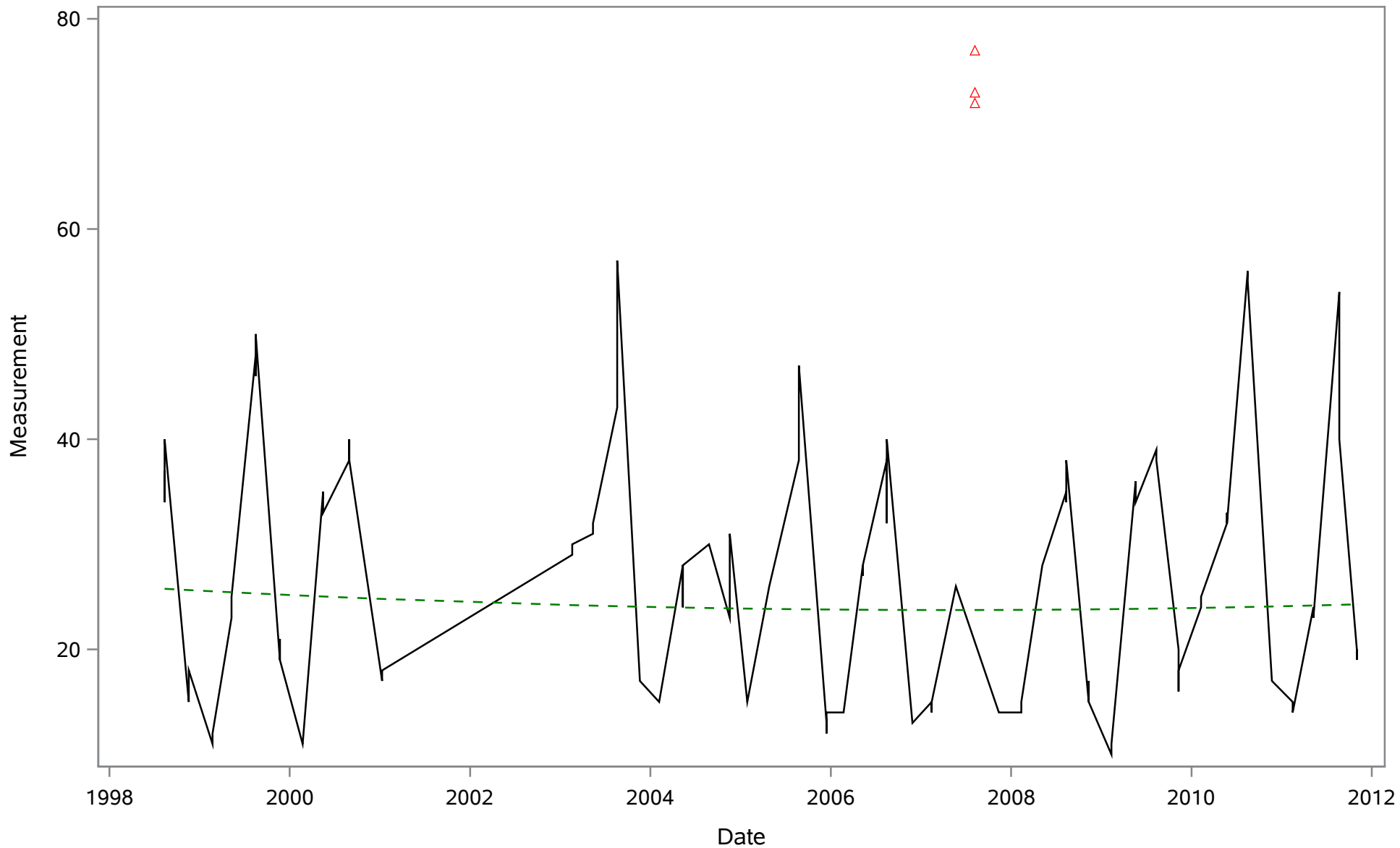
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_cor_ugl



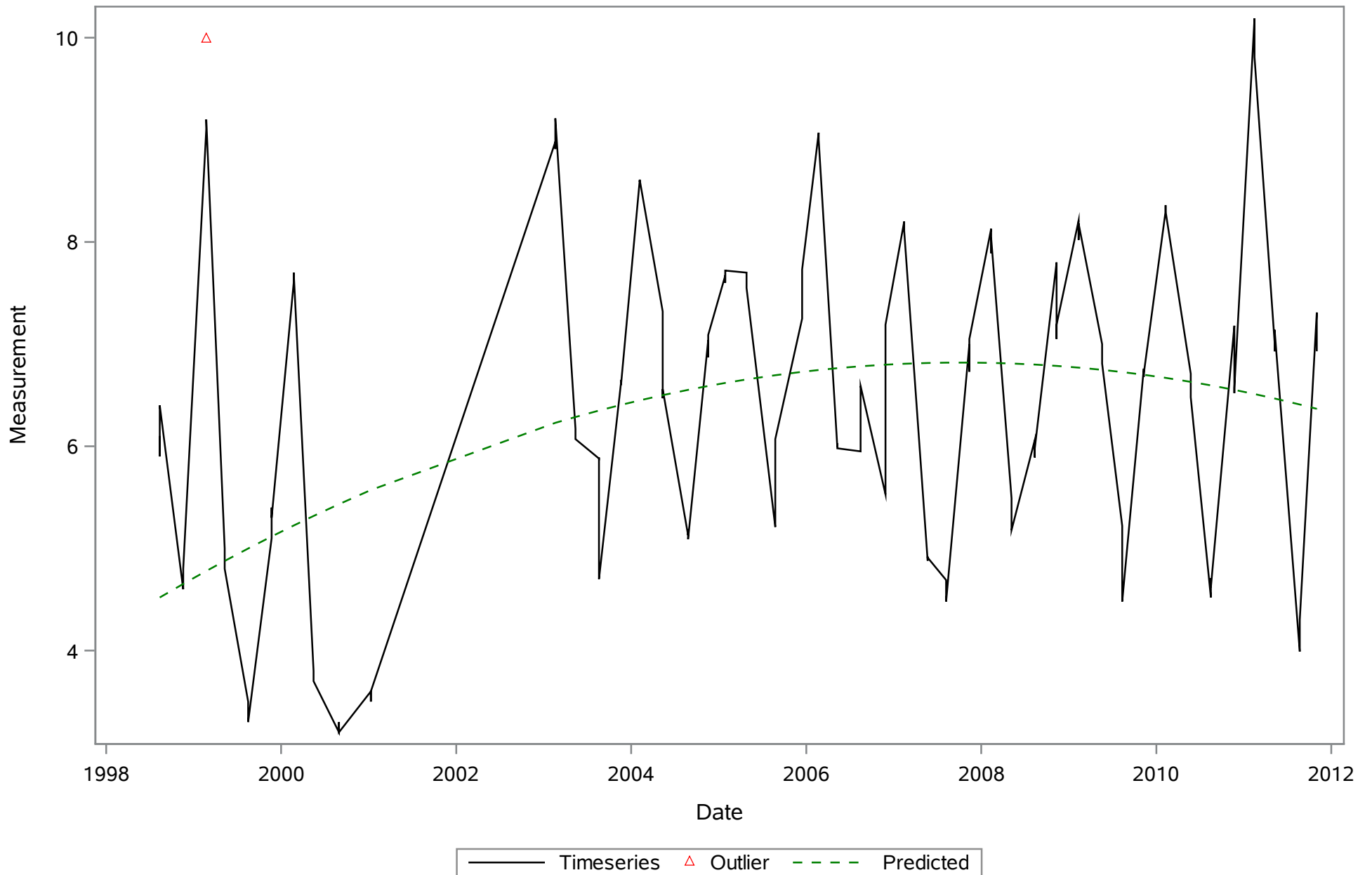
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
COLOR_PtCo

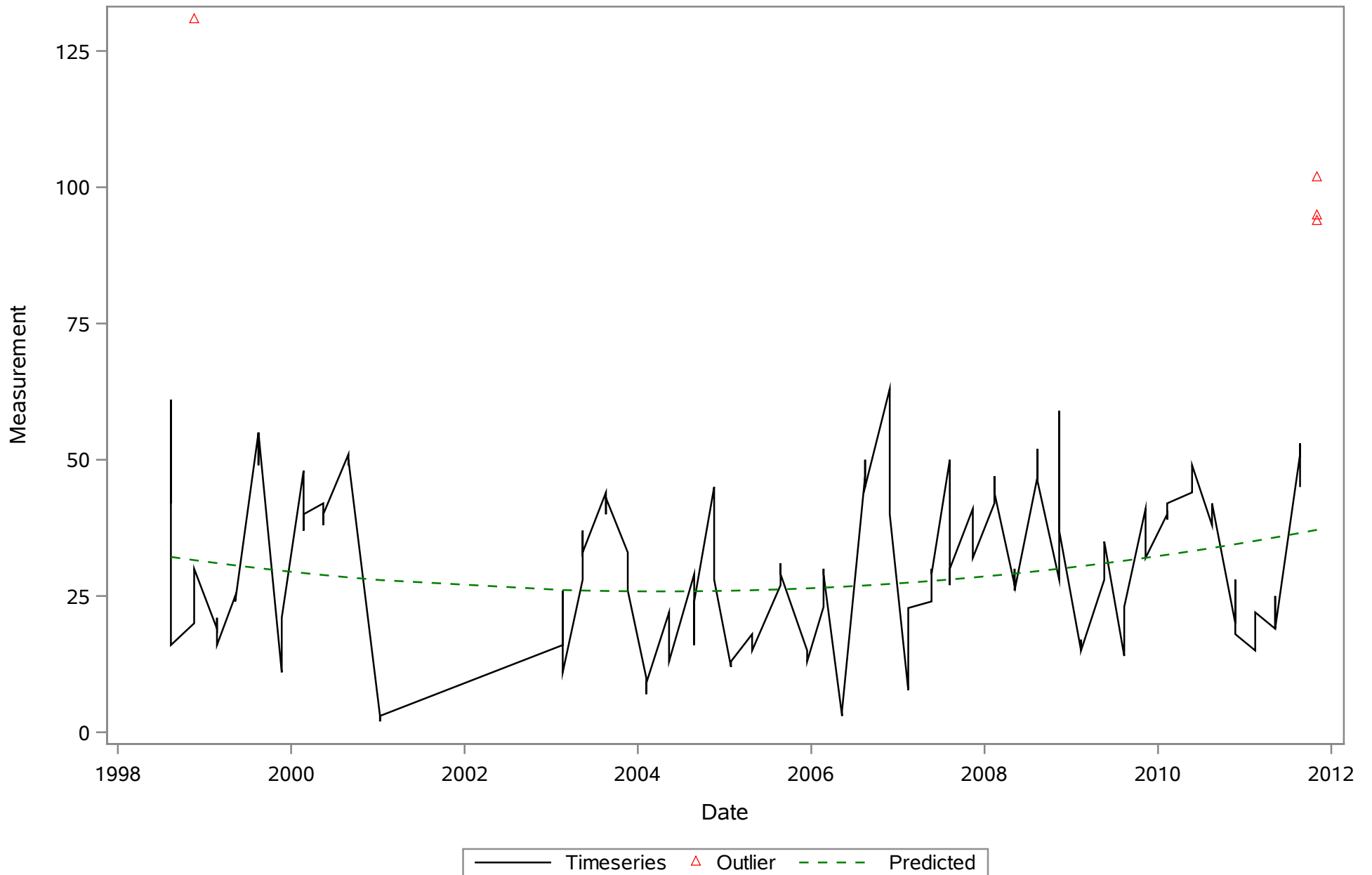


— Timeseries △ Outlier - - - Predicted

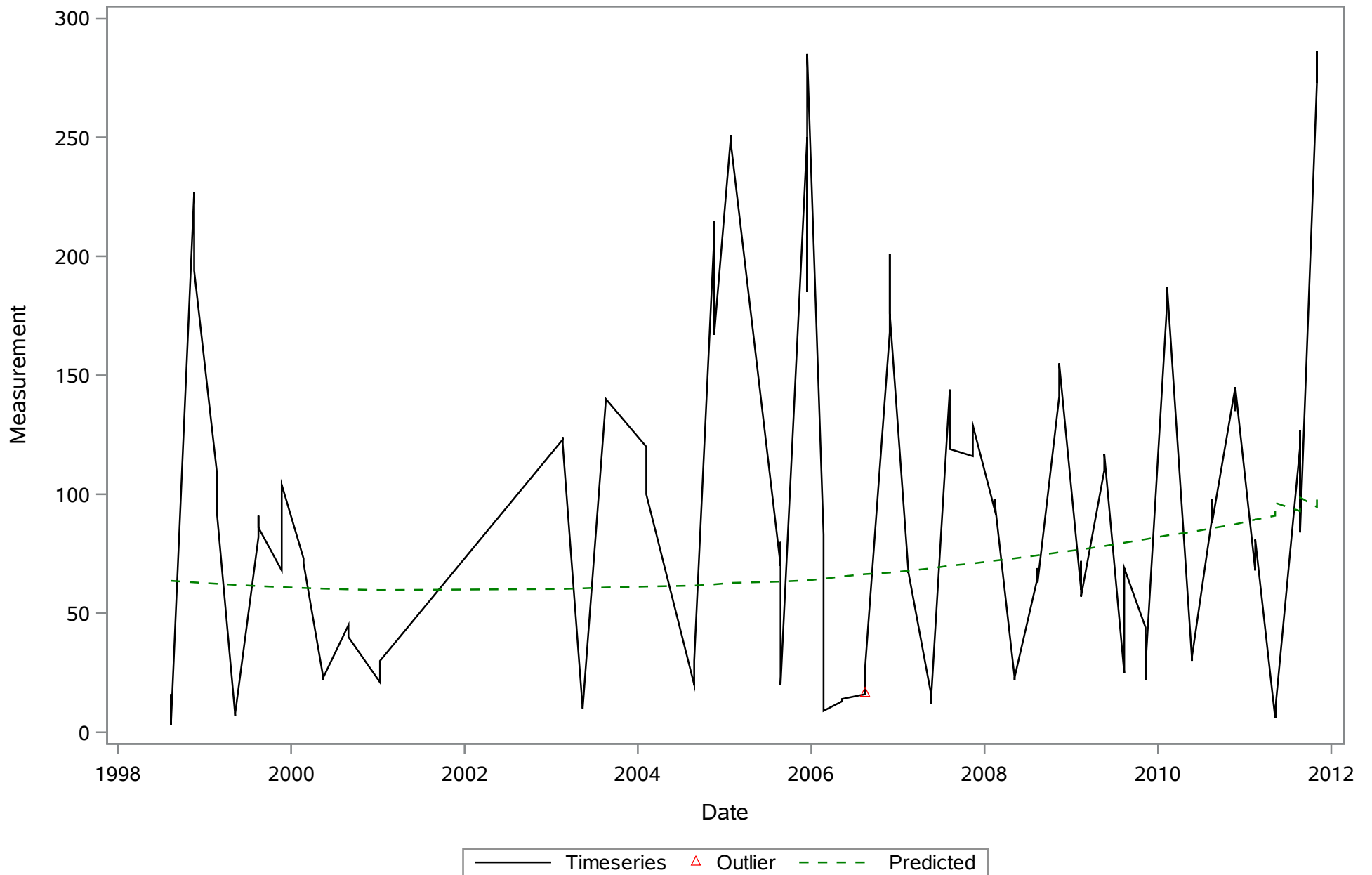
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
DO_mgL



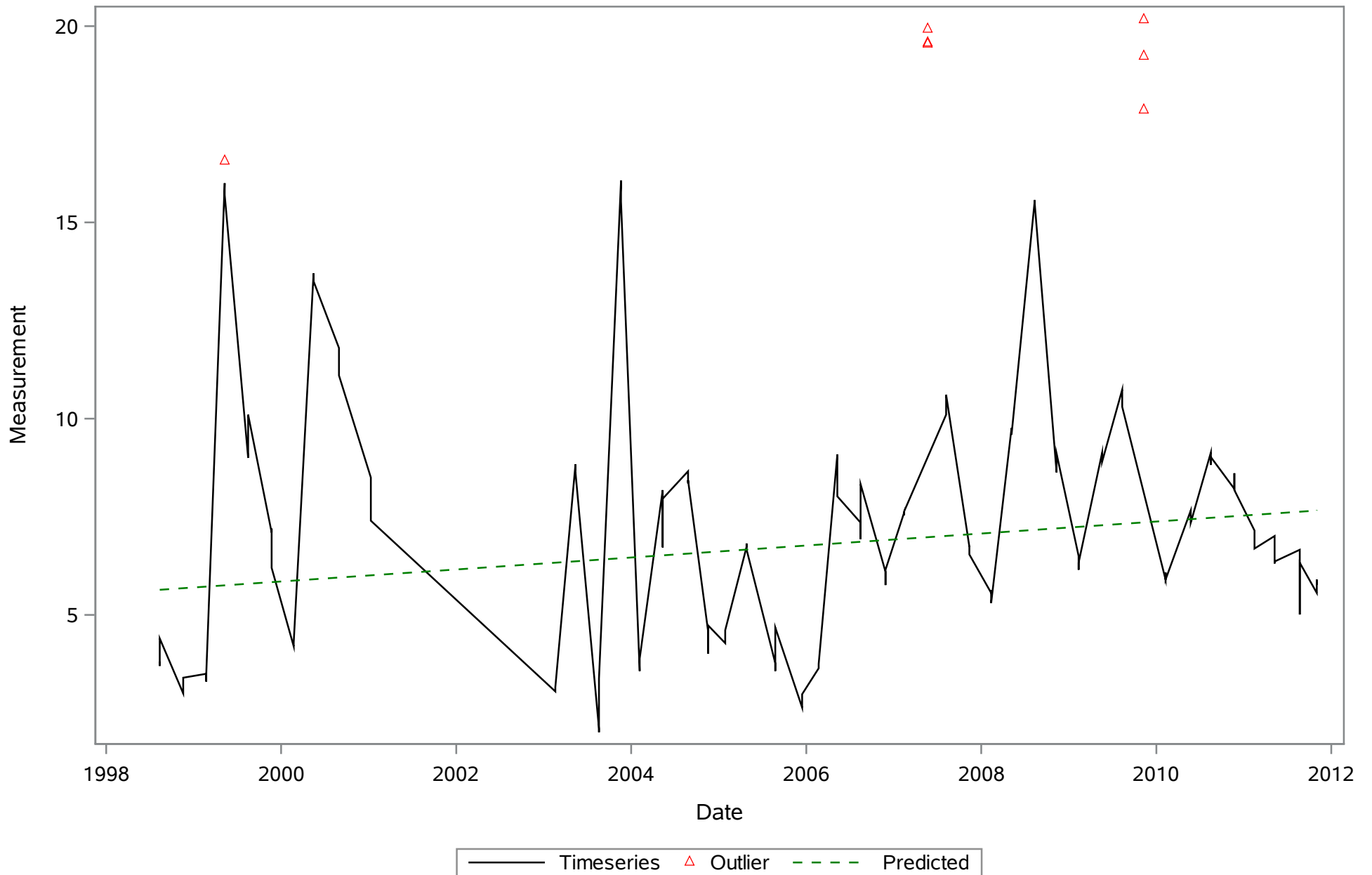
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NH4_ugl



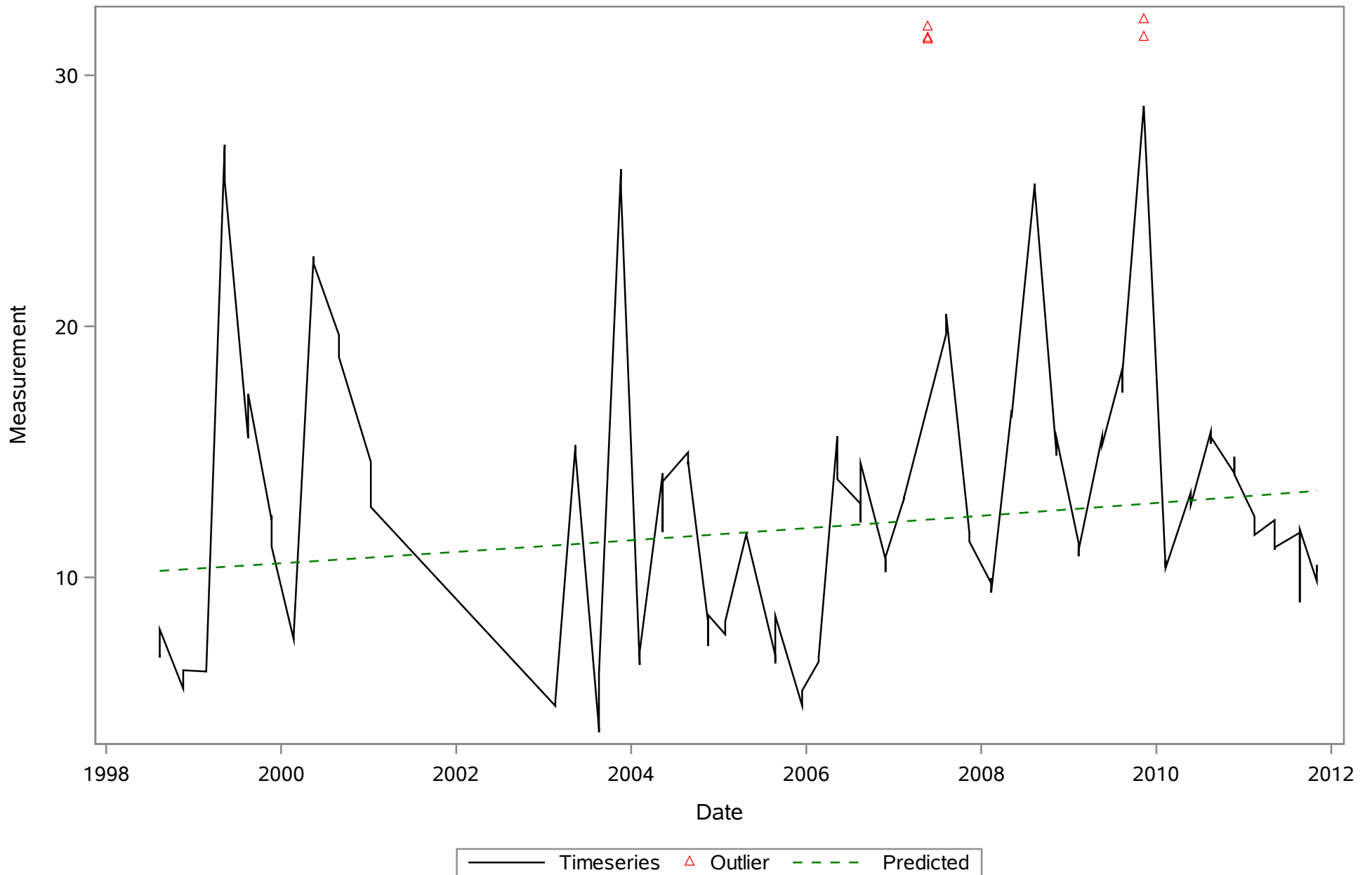
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NO3_ugL



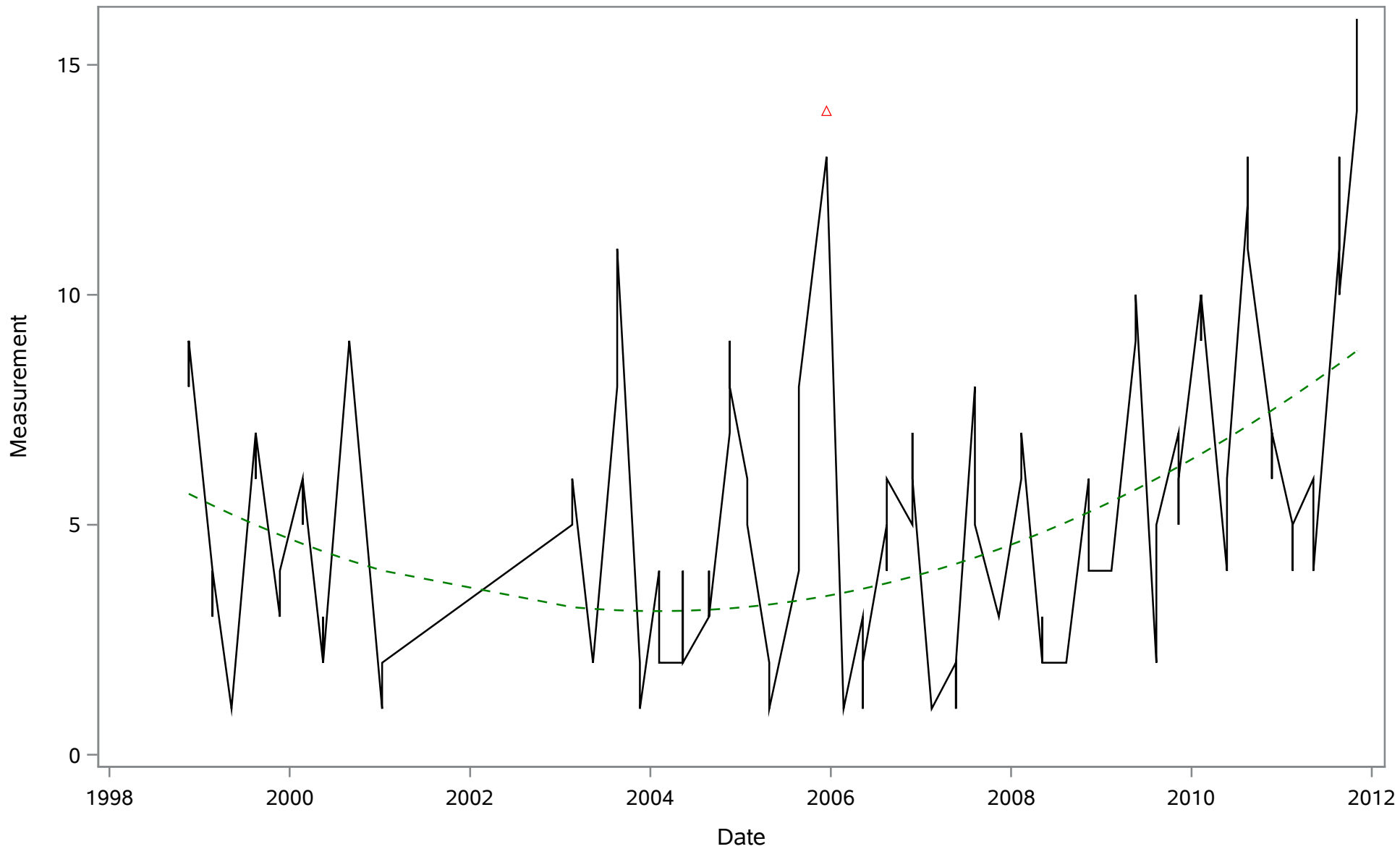
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SAL_Perc



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SPCOND_mS_cm

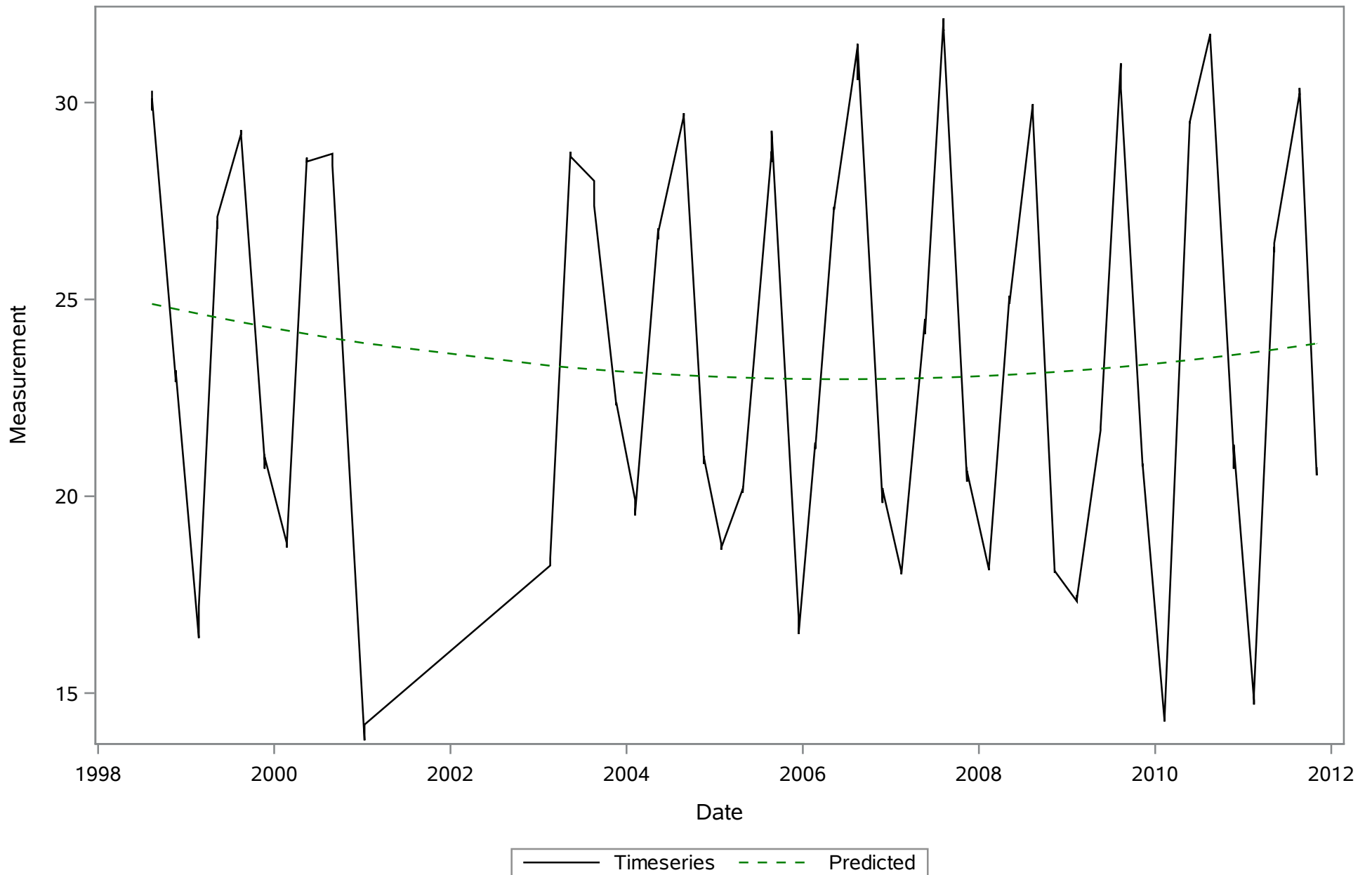


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SRP_ugL

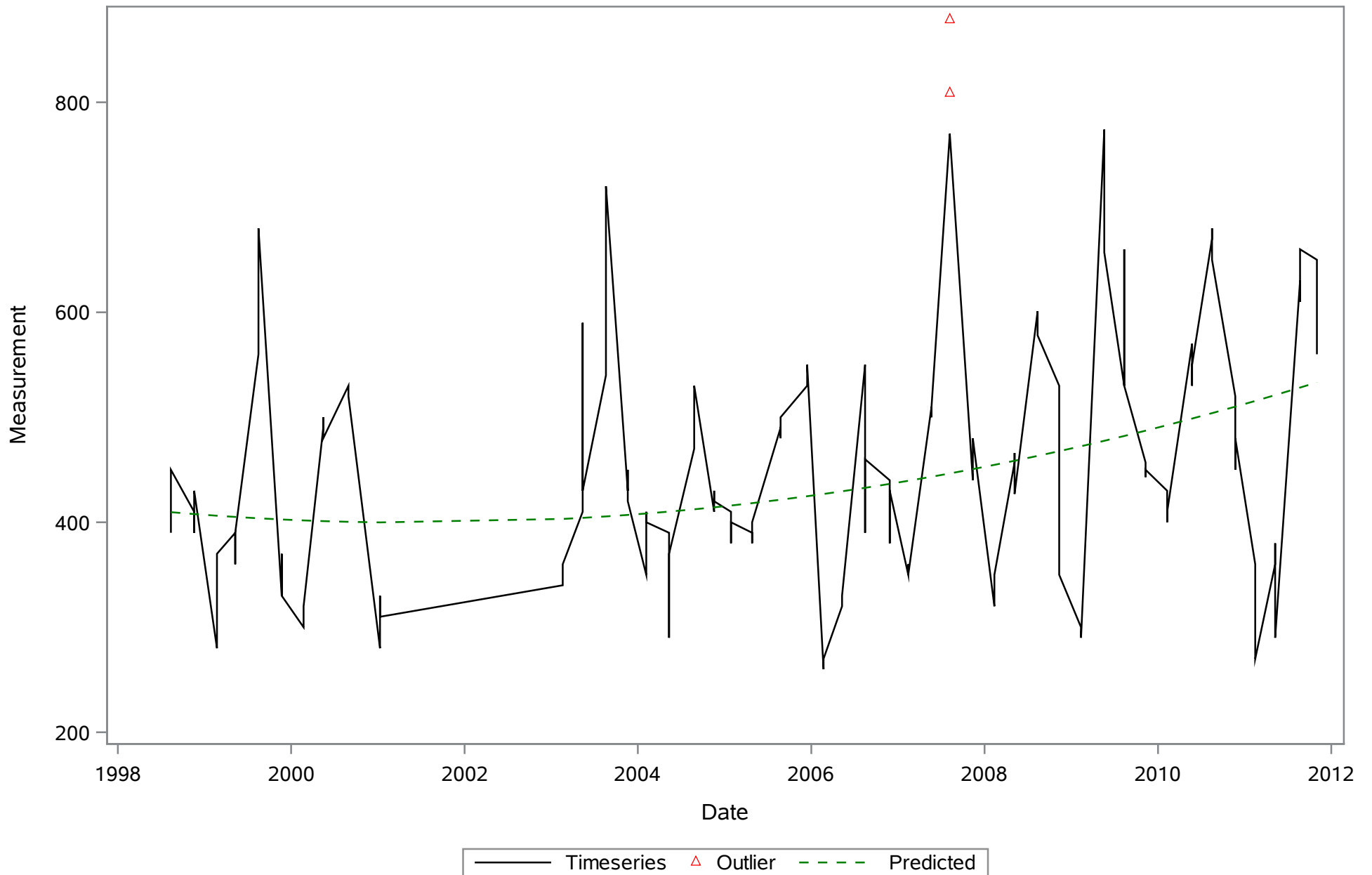


— Timeseries △ Outlier - - - Predicted

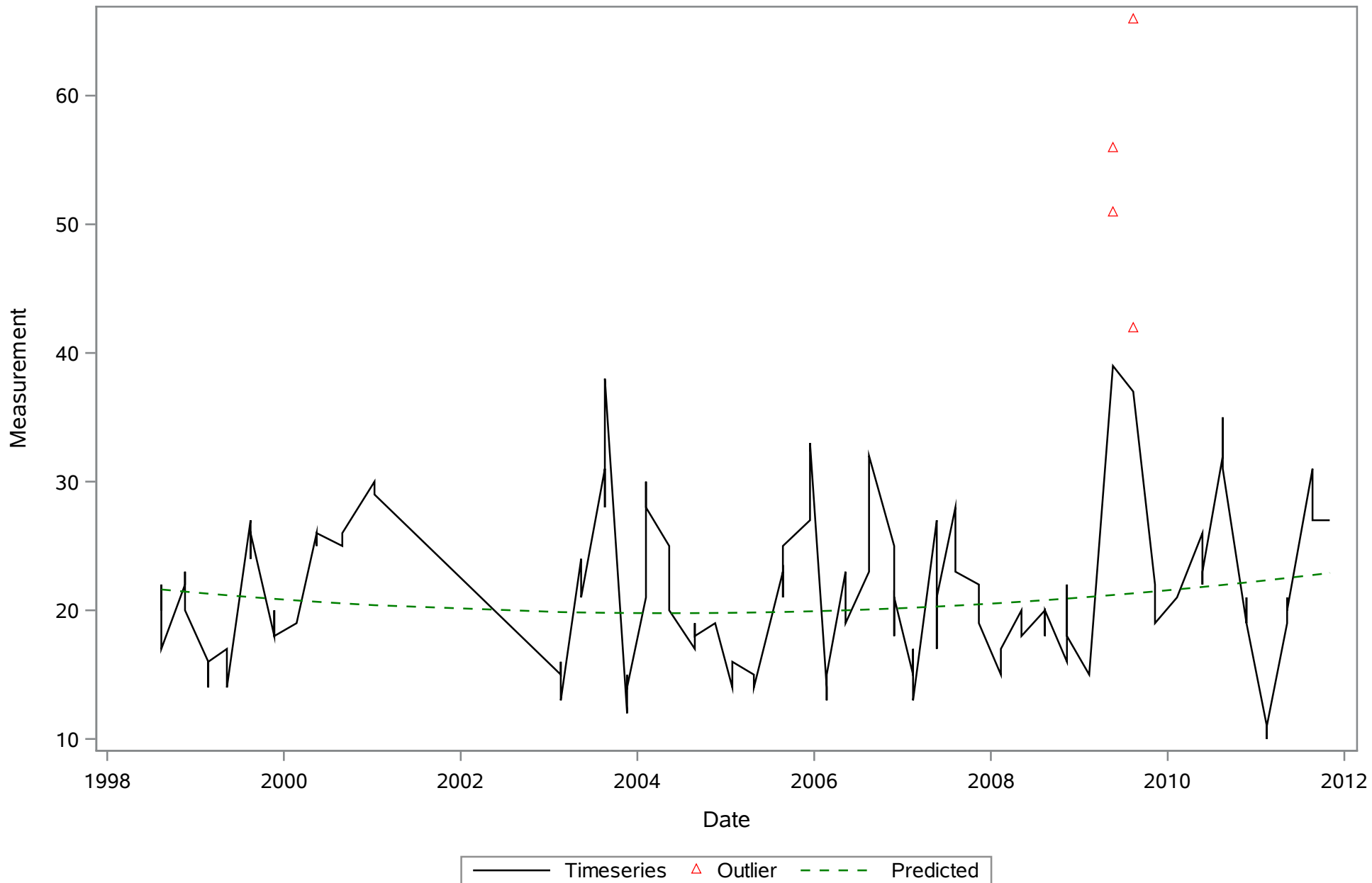
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TEMP_C



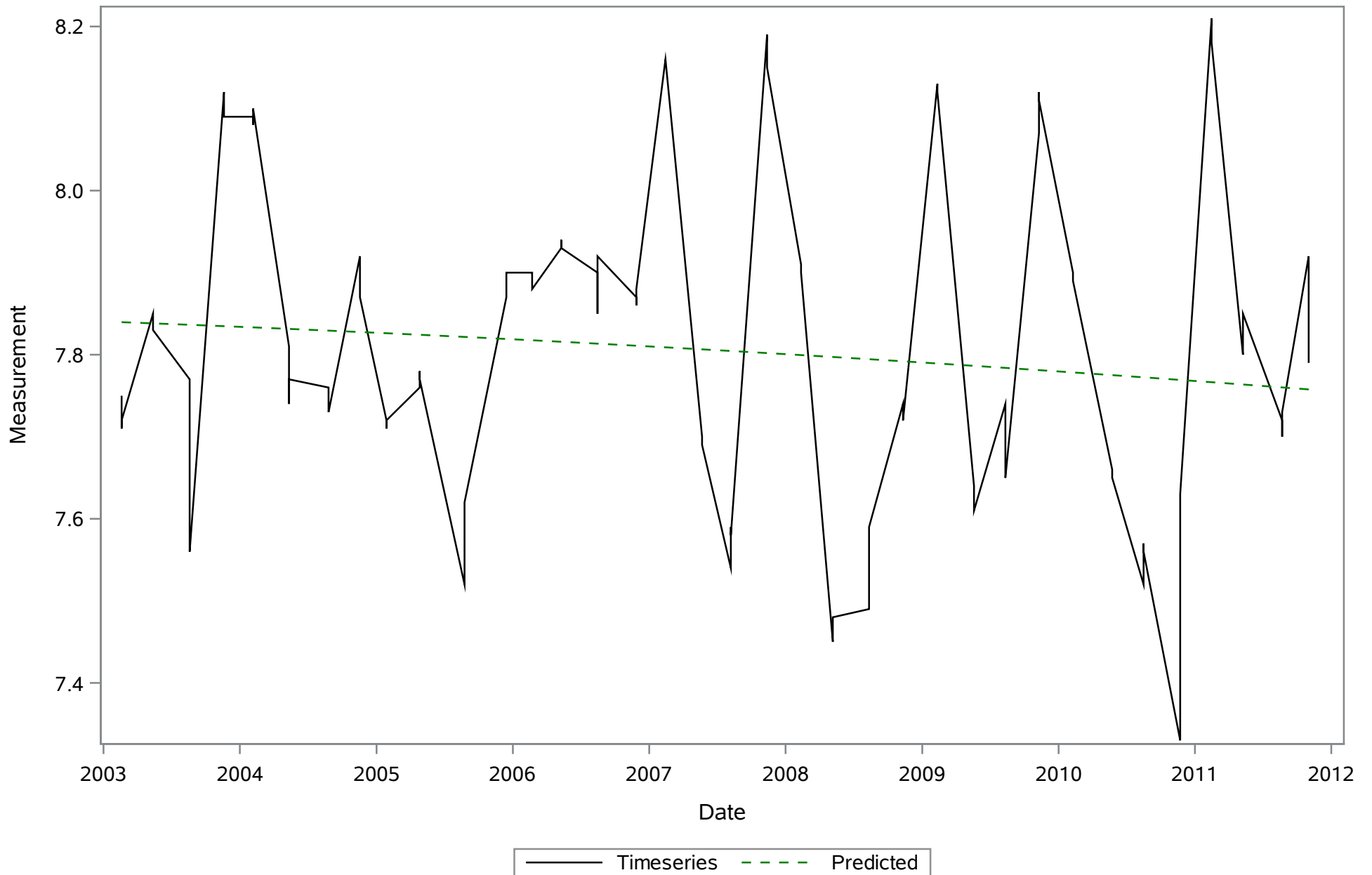
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TN_ugl



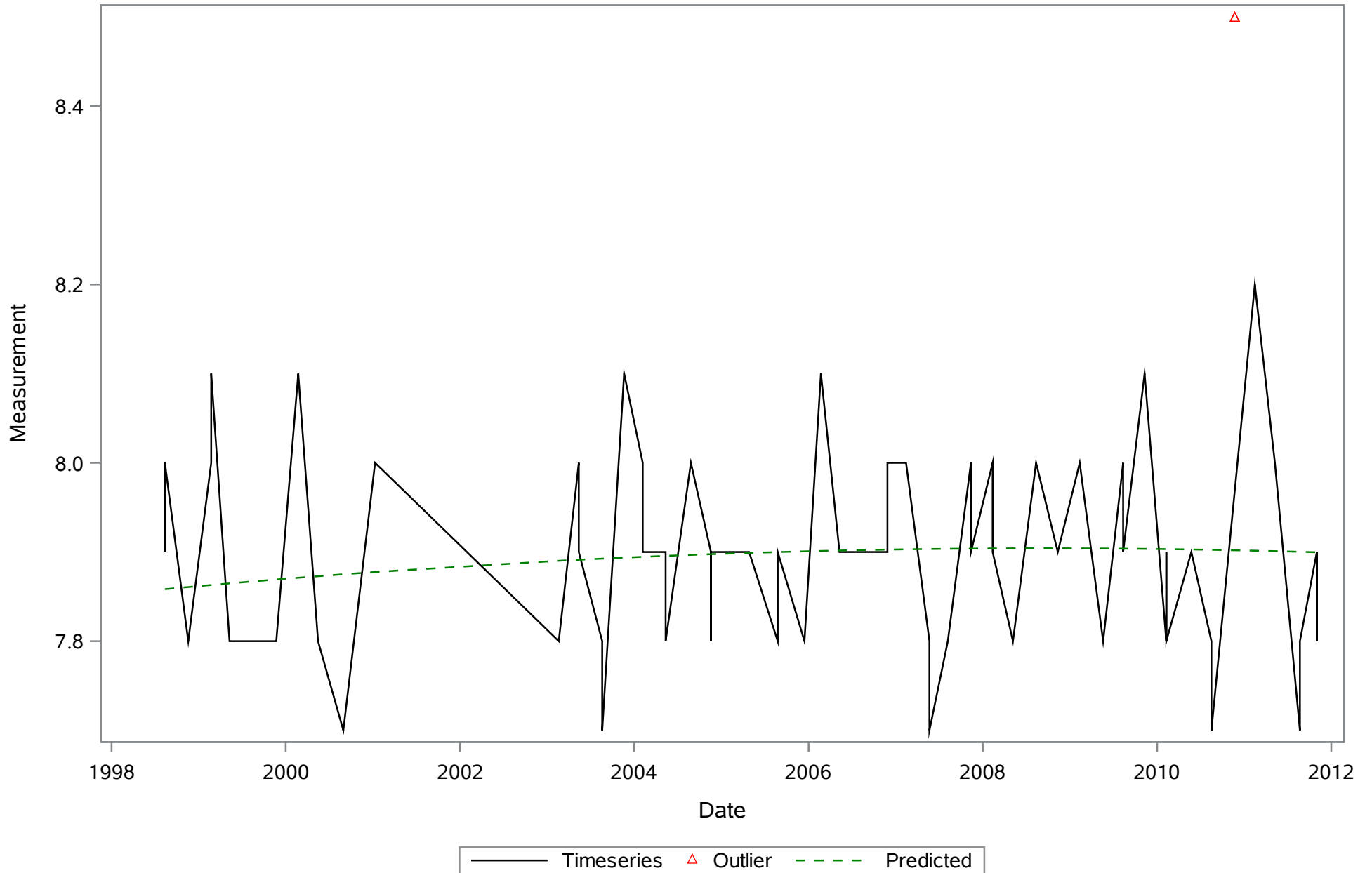
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TP_ugl



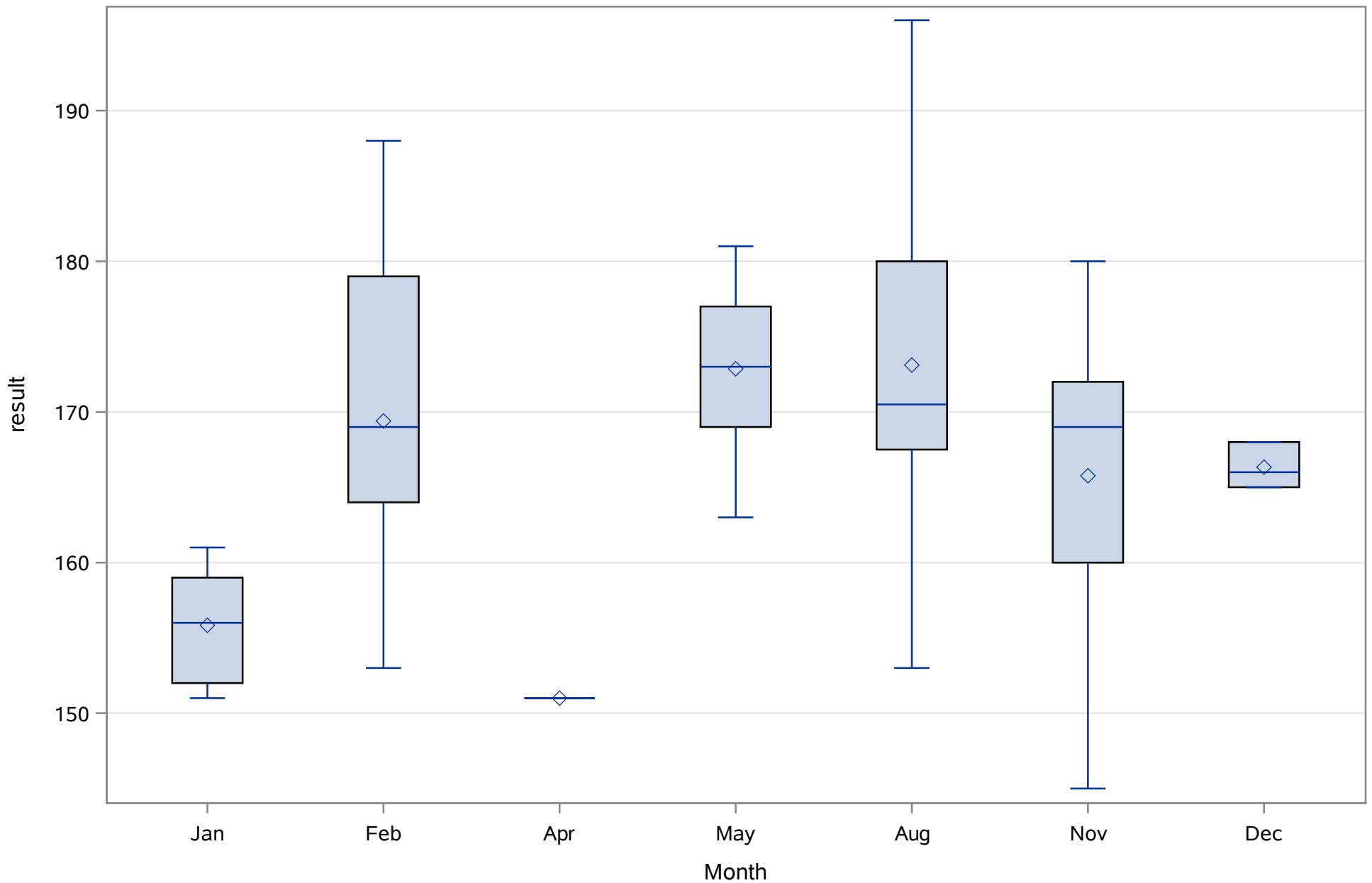
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Field



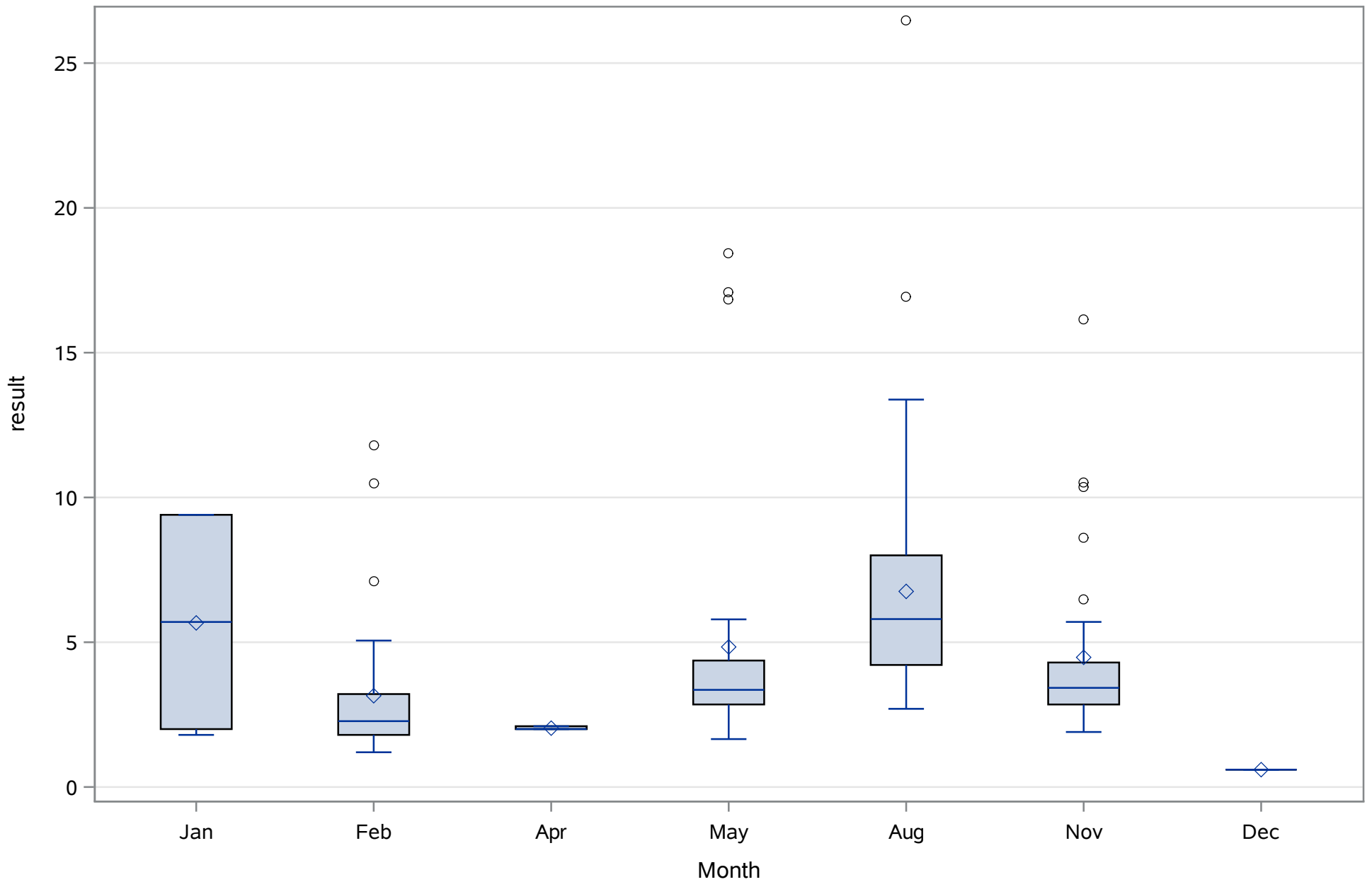
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Lab



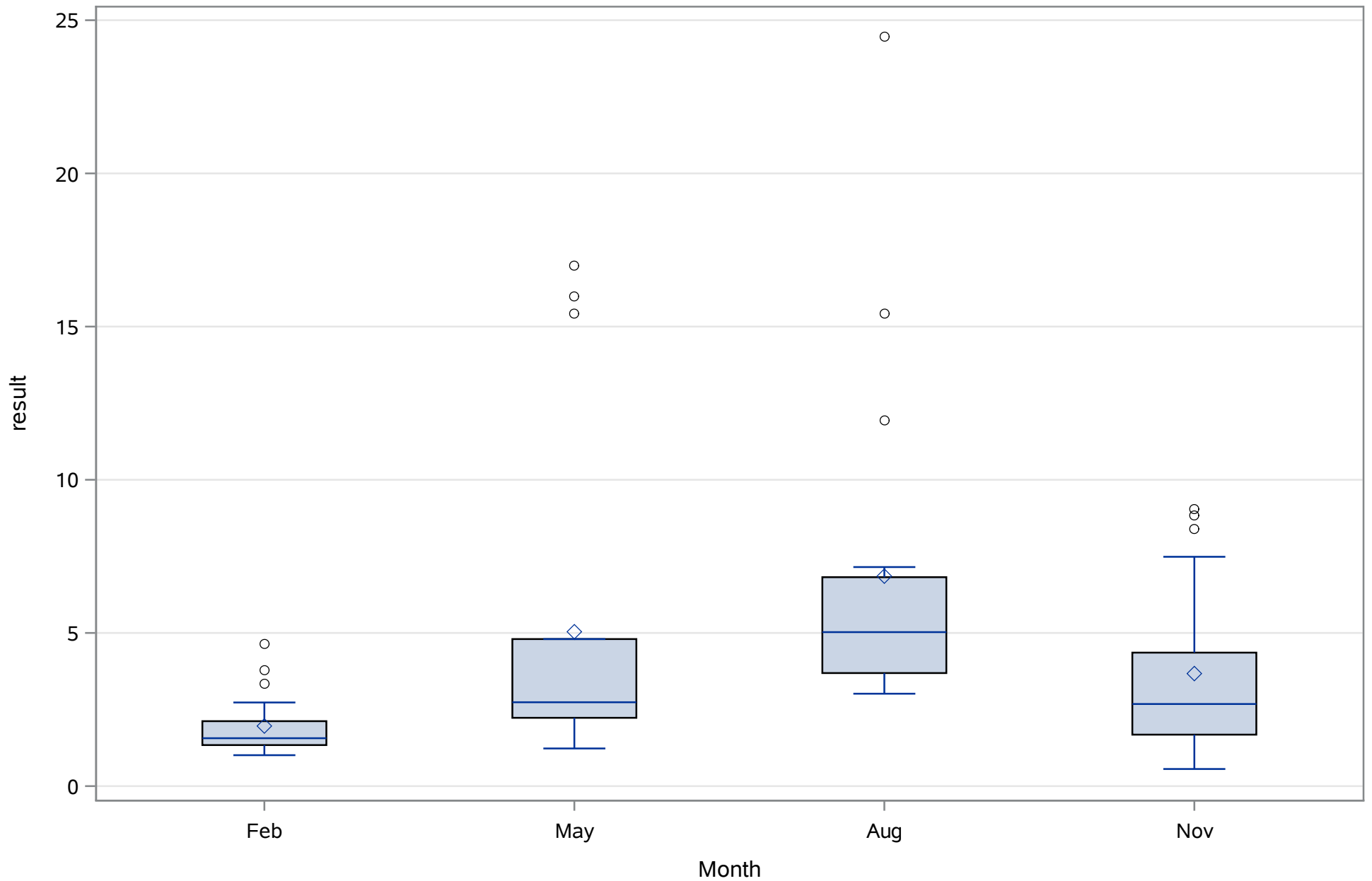
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
ALK_tot_mgL



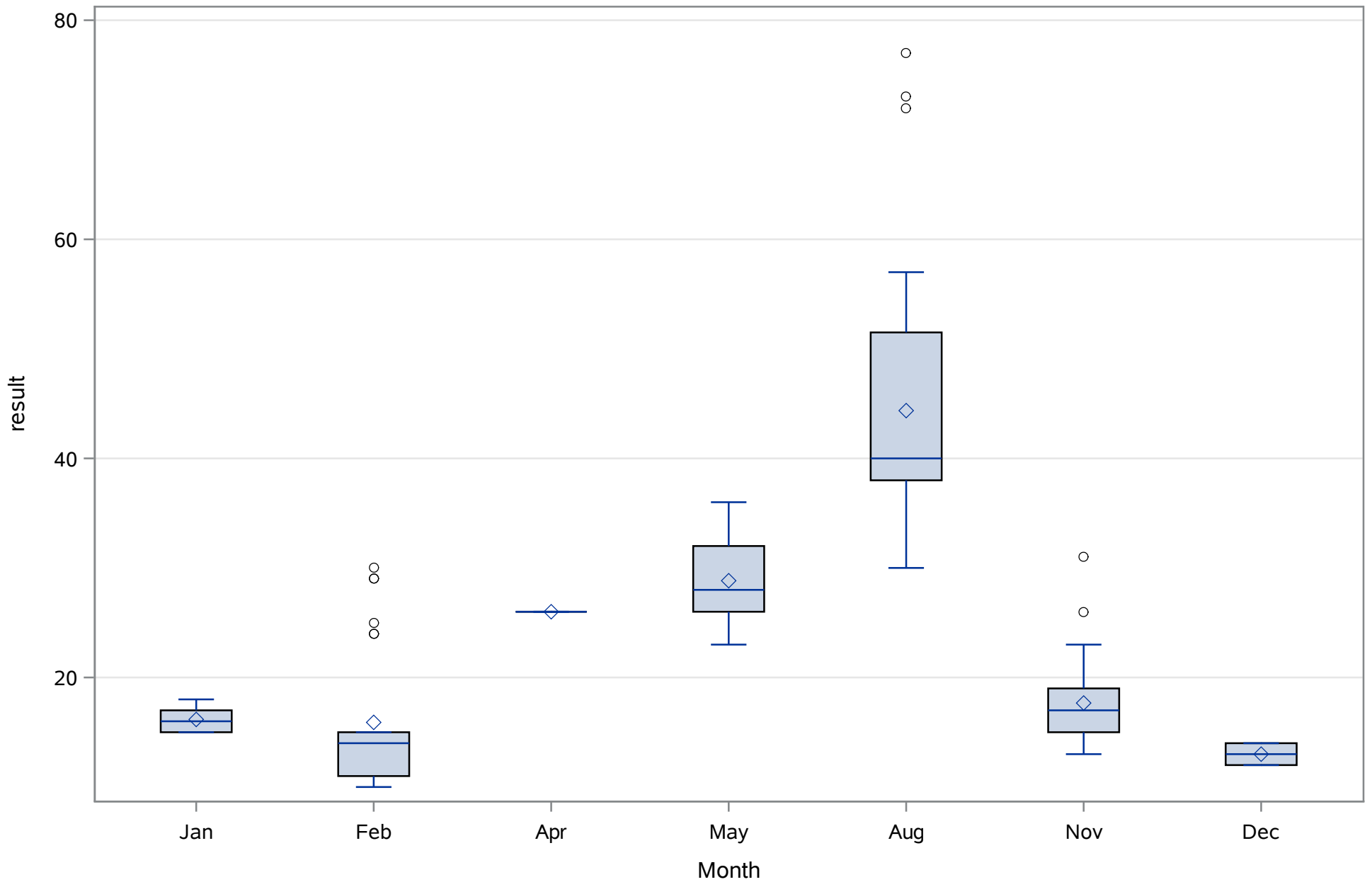
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_Uncor_ugL



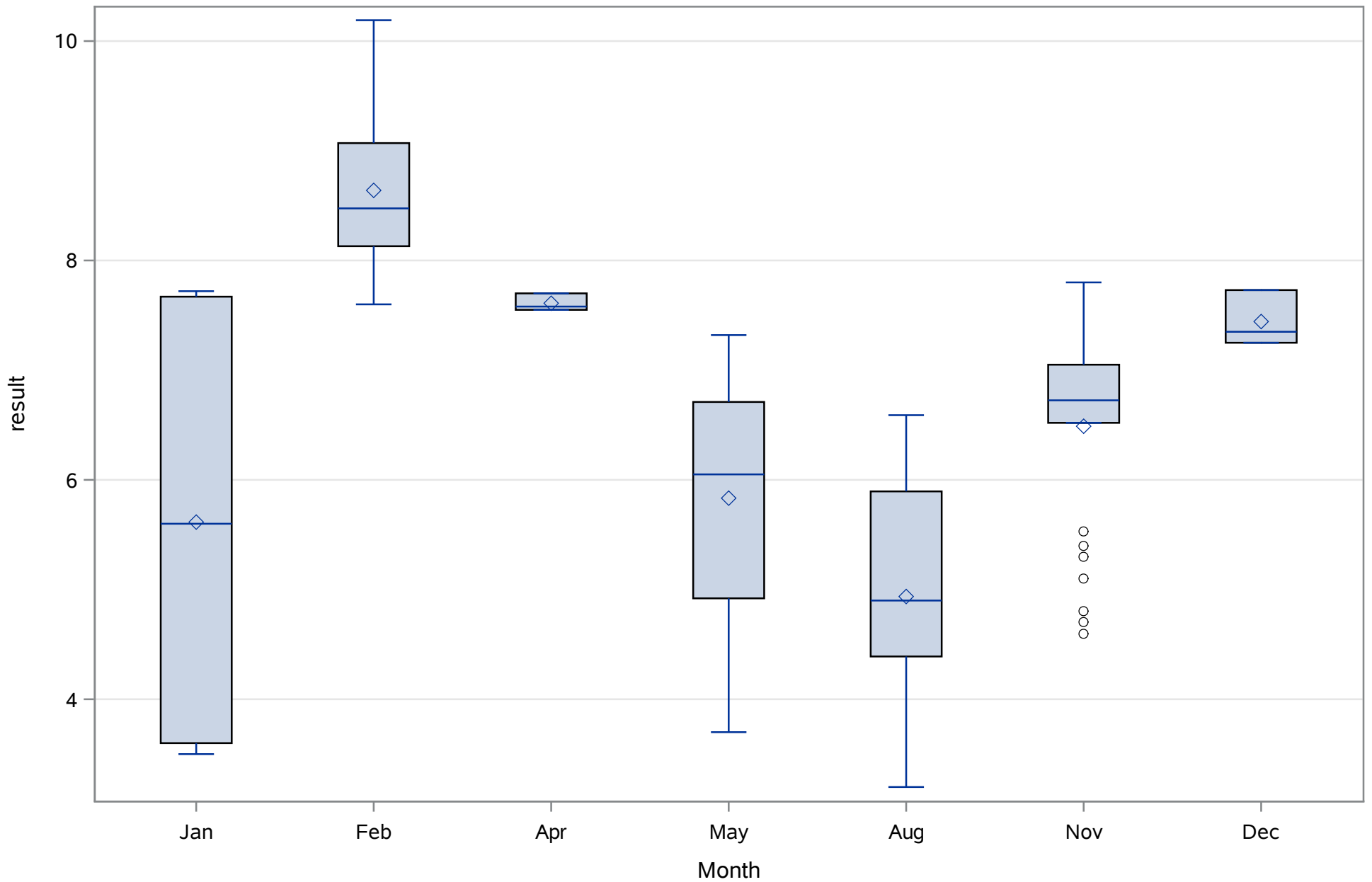
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
CHLA_cor_ugl



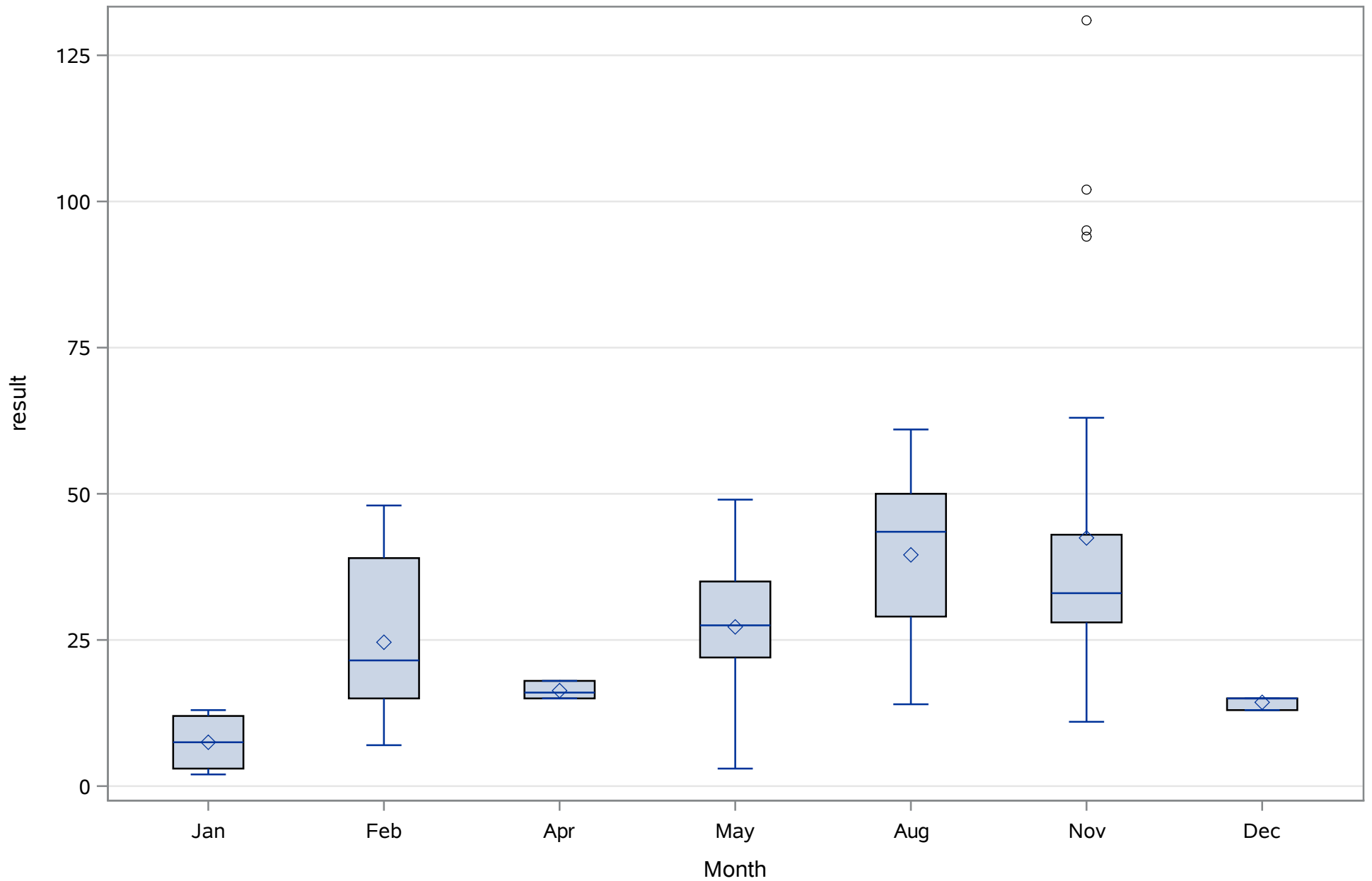
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
COLOR_PtCo



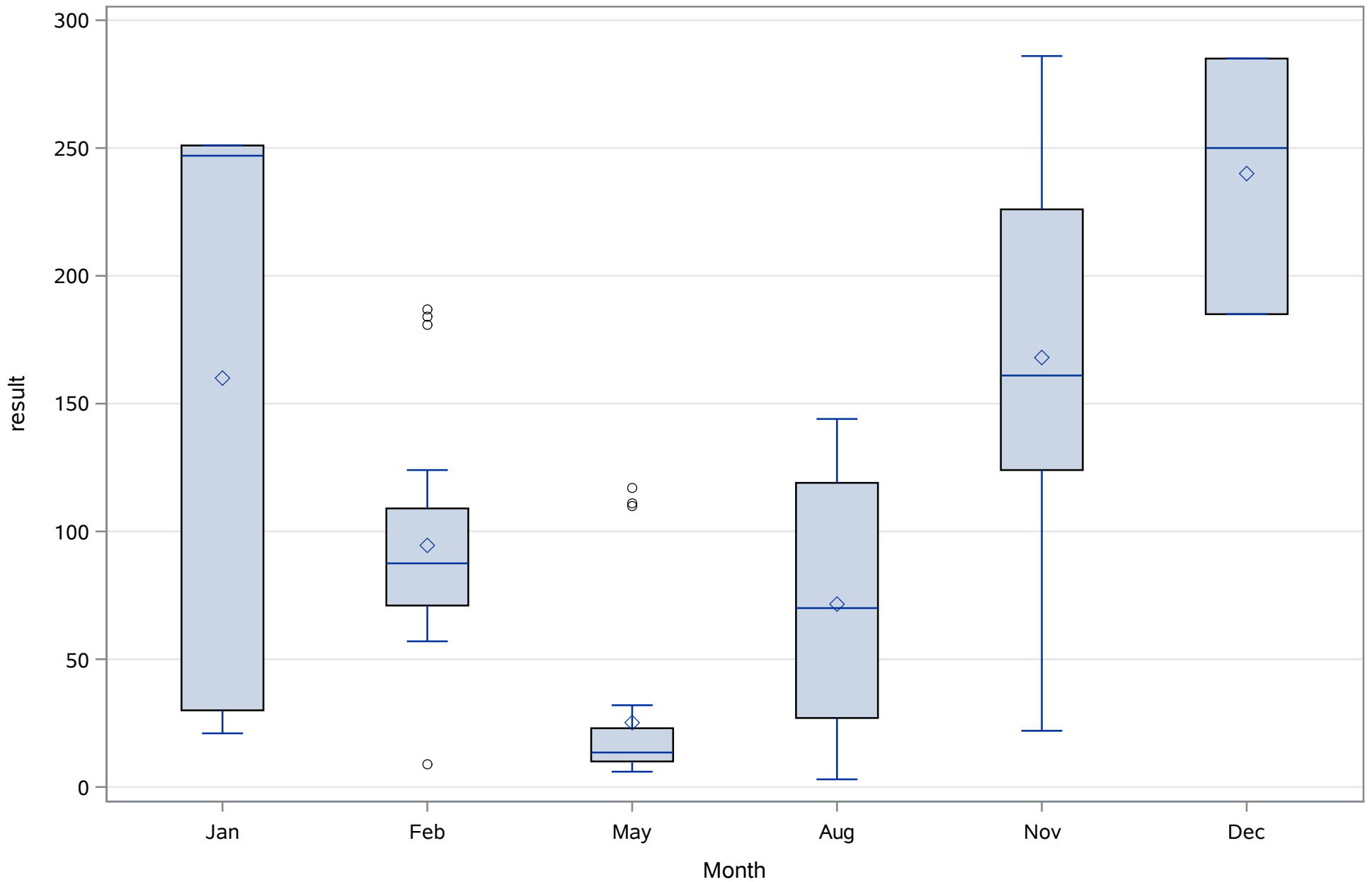
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
DO_mgL



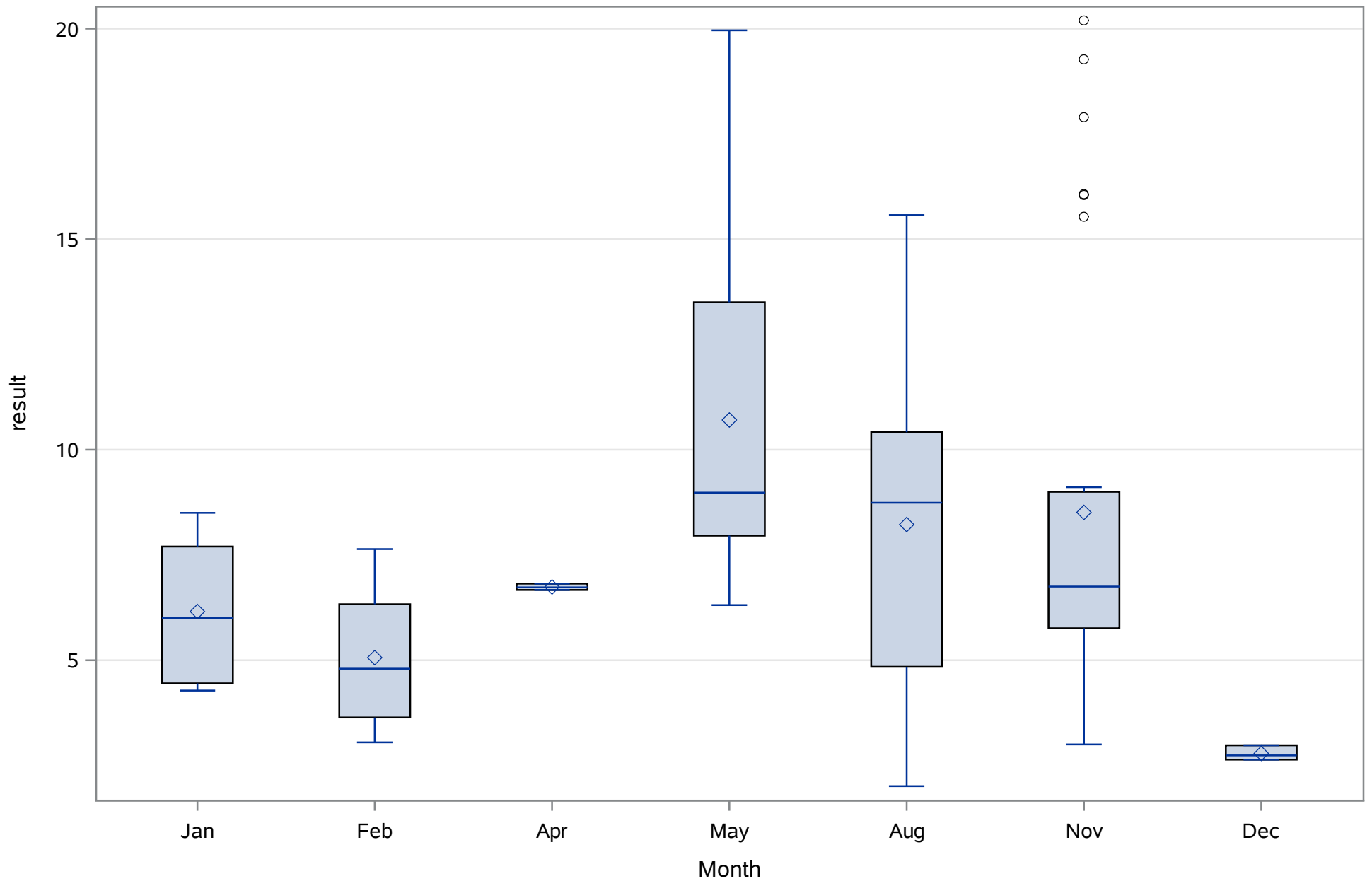
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NH4_ugl



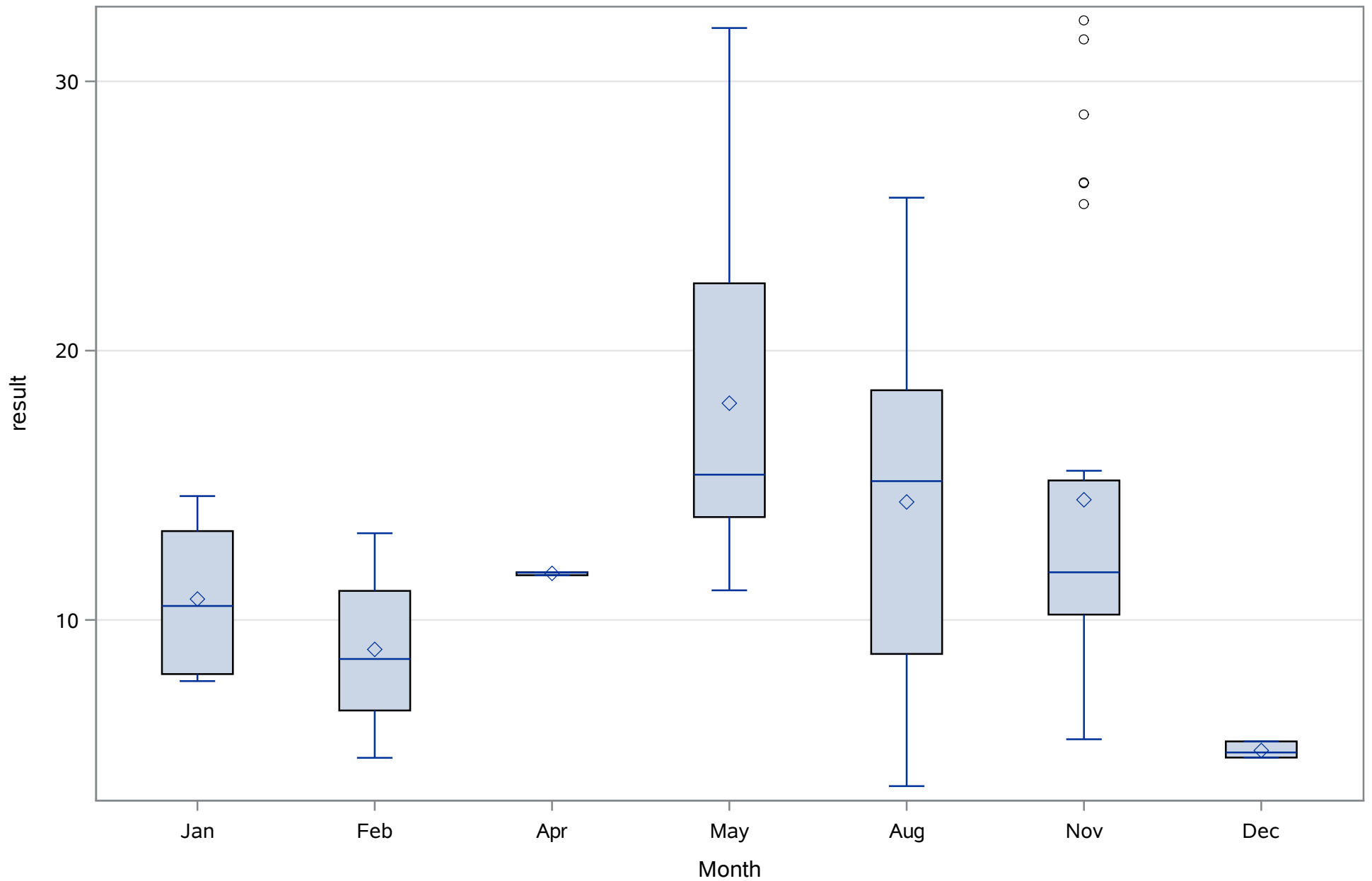
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
NO3_ugL



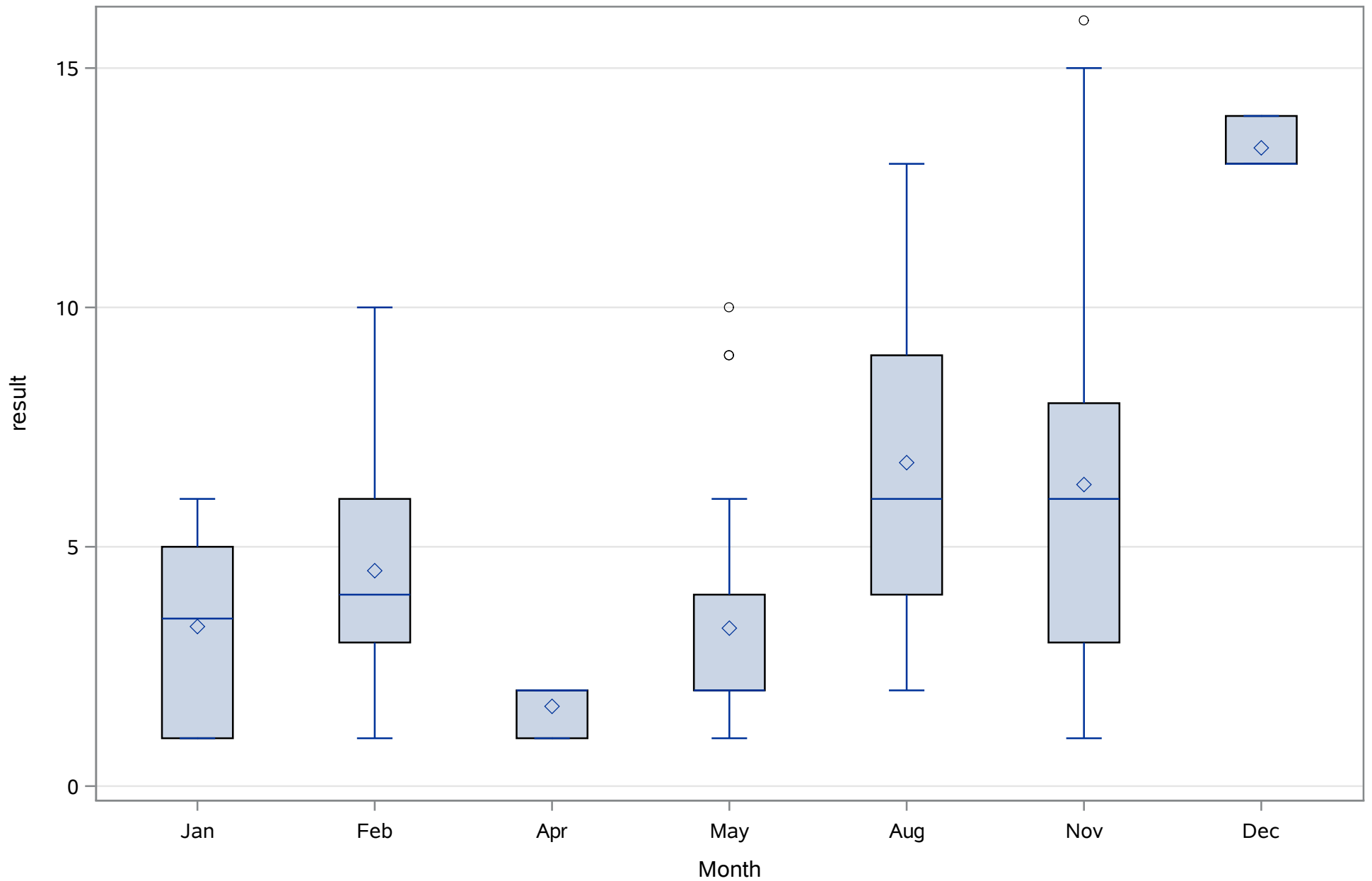
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SAL_Perc



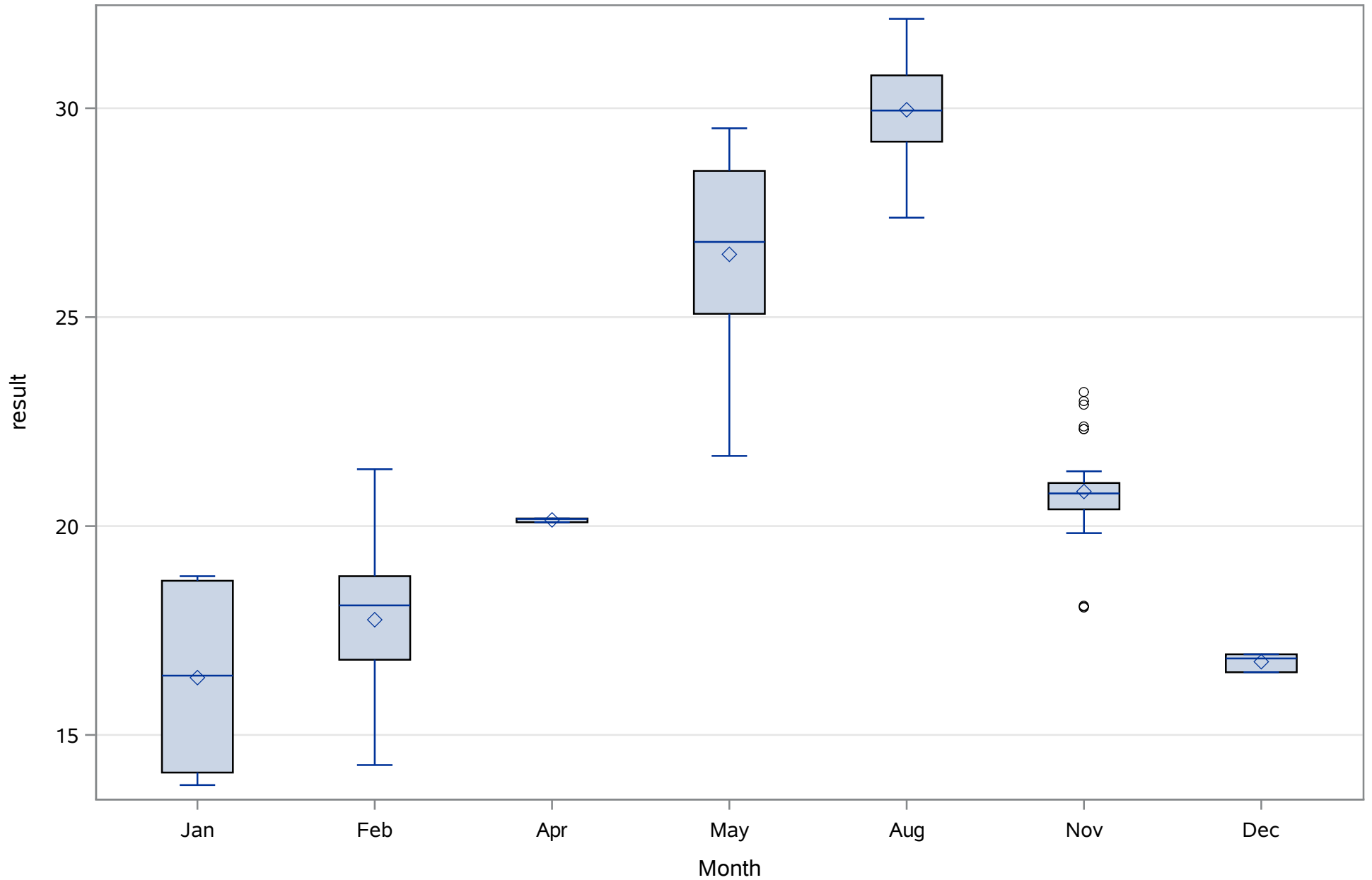
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SPCOND_mS_cm



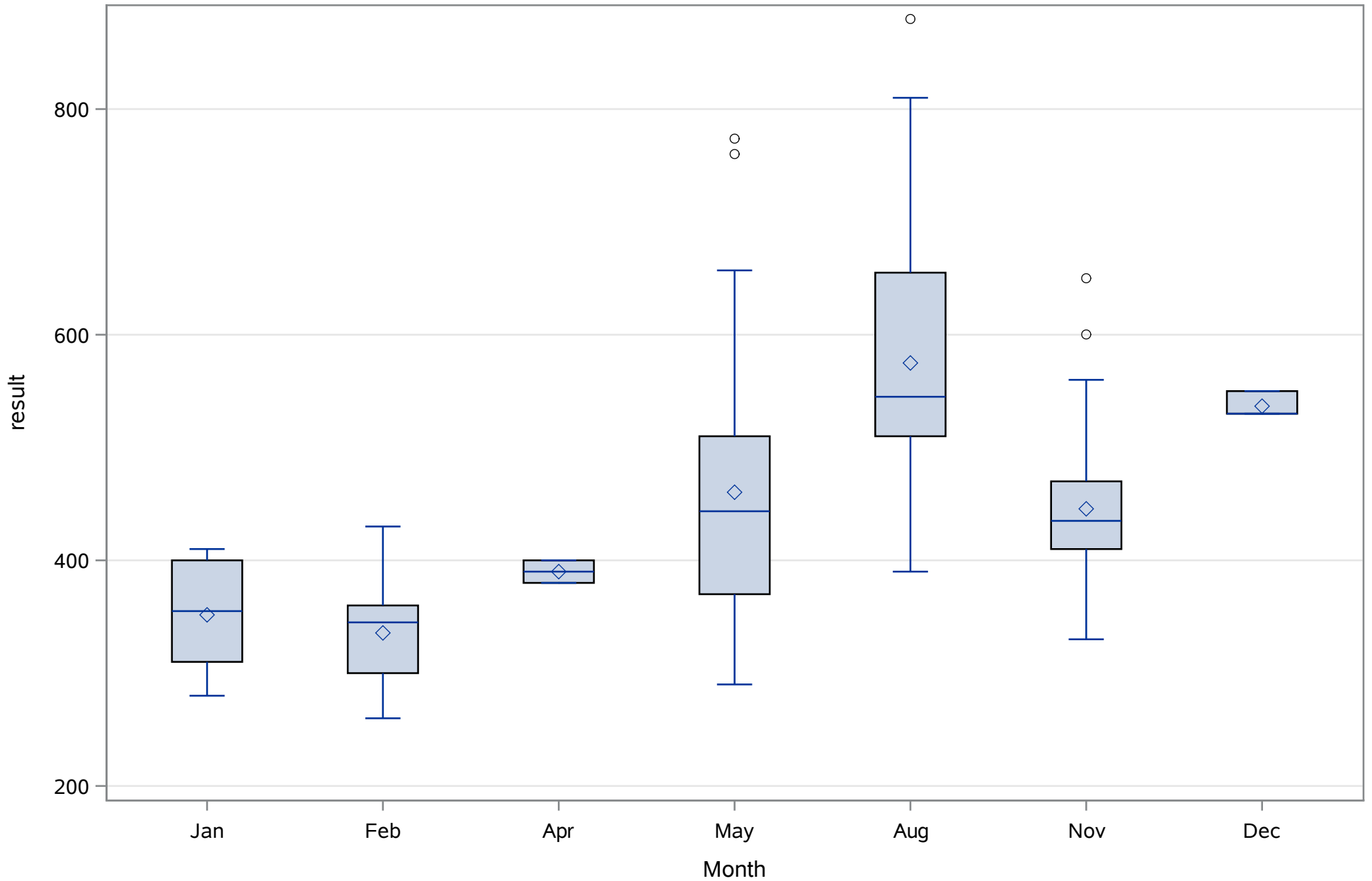
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
SRP_ugL



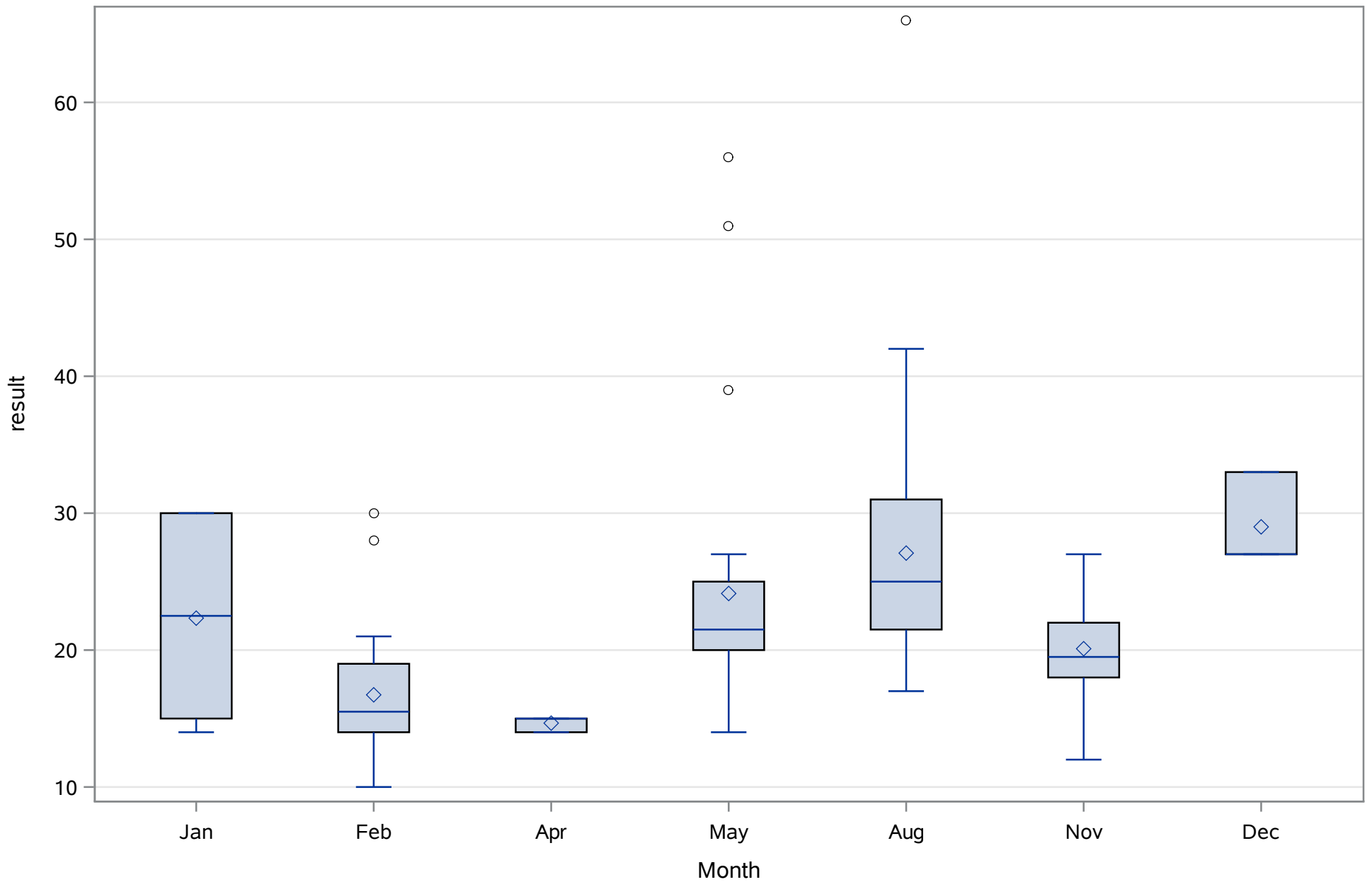
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TEMP_C



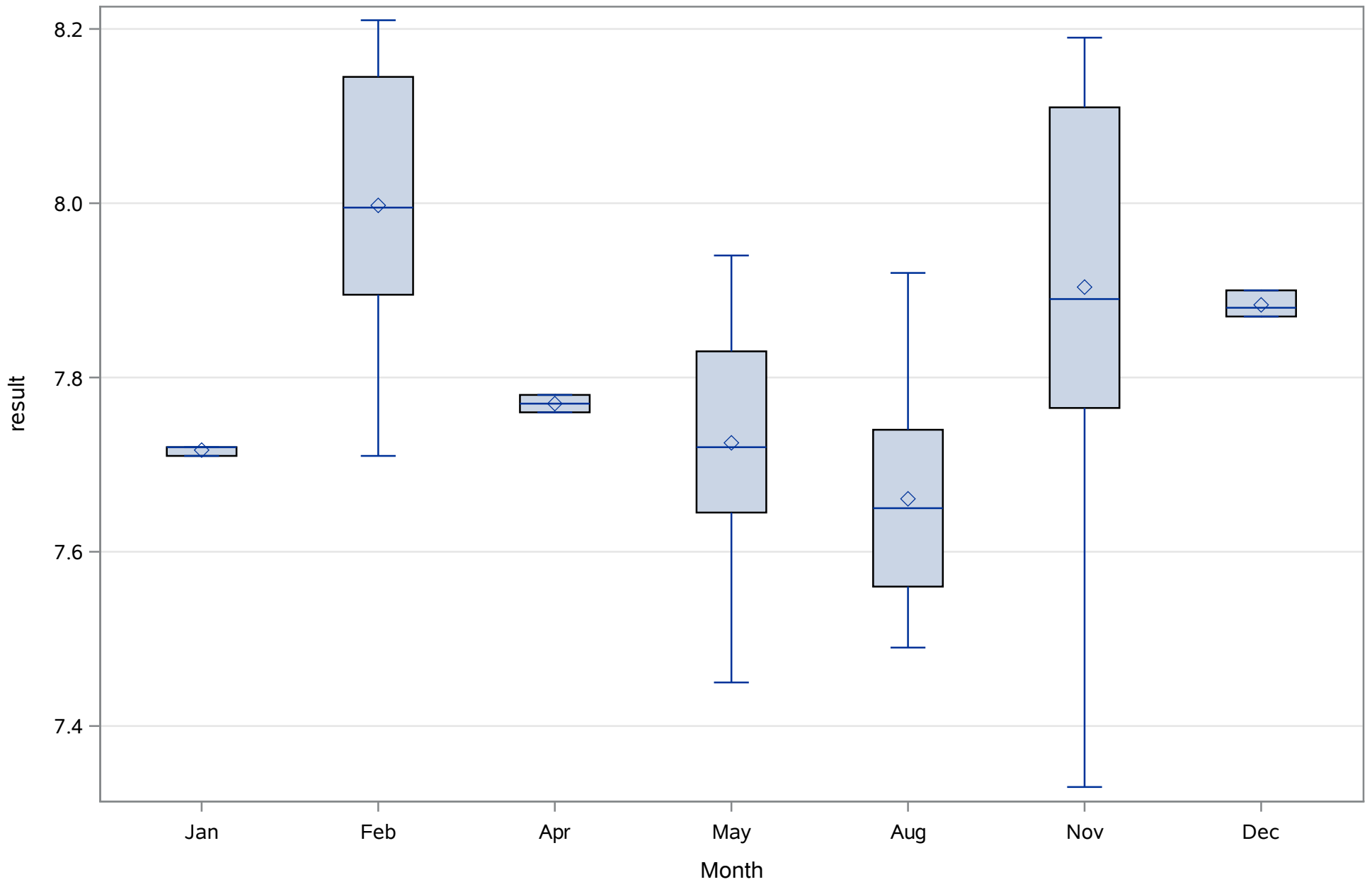
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TN_ugl



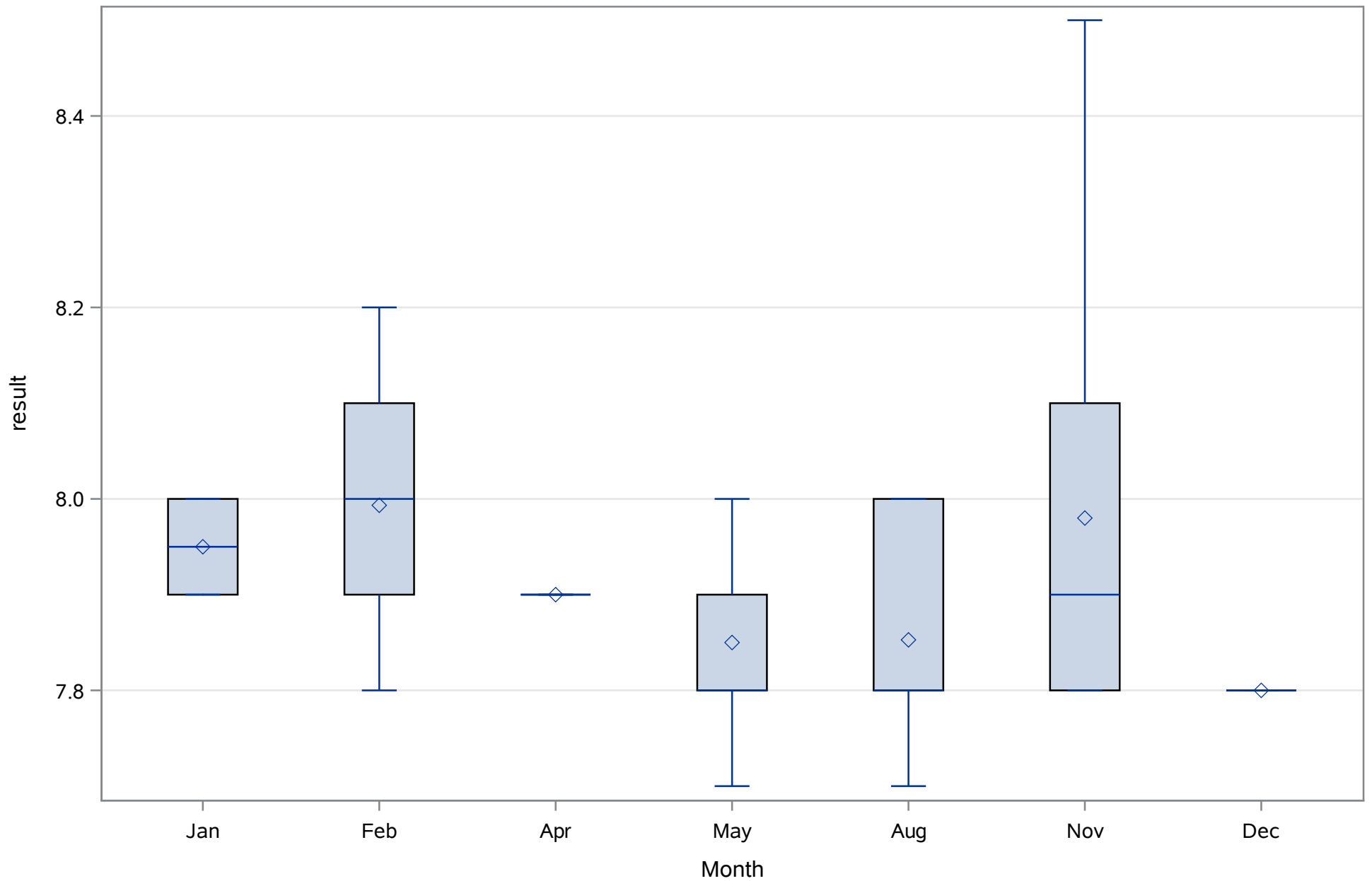
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 13
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	135	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	169.869565	Sum Observations	23442
Std Deviation	9.34483431	Variance	87.3259283
Skewness	-0.136781	Kurtosis	0.25522868
Uncorrected SS	3994046	Corrected SS	11963.6522
Coeff Variation	5.50118221	Std Error Mean	0.79548512

Basic Statistical Measures			
Location		Variability	
Mean	169.8696	Std Deviation	9.34483
Median	170.0000	Variance	87.32593
Mode	170.0000	Range	48.00000
		Interquartile Range	12.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	213.5421	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	195
99%	194
95%	183
90%	181
75% Q3	177
50% Median	170
25% Q1	165
10%	157
5%	152
1%	149
0% Min	147

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
ALK_tot_mgL

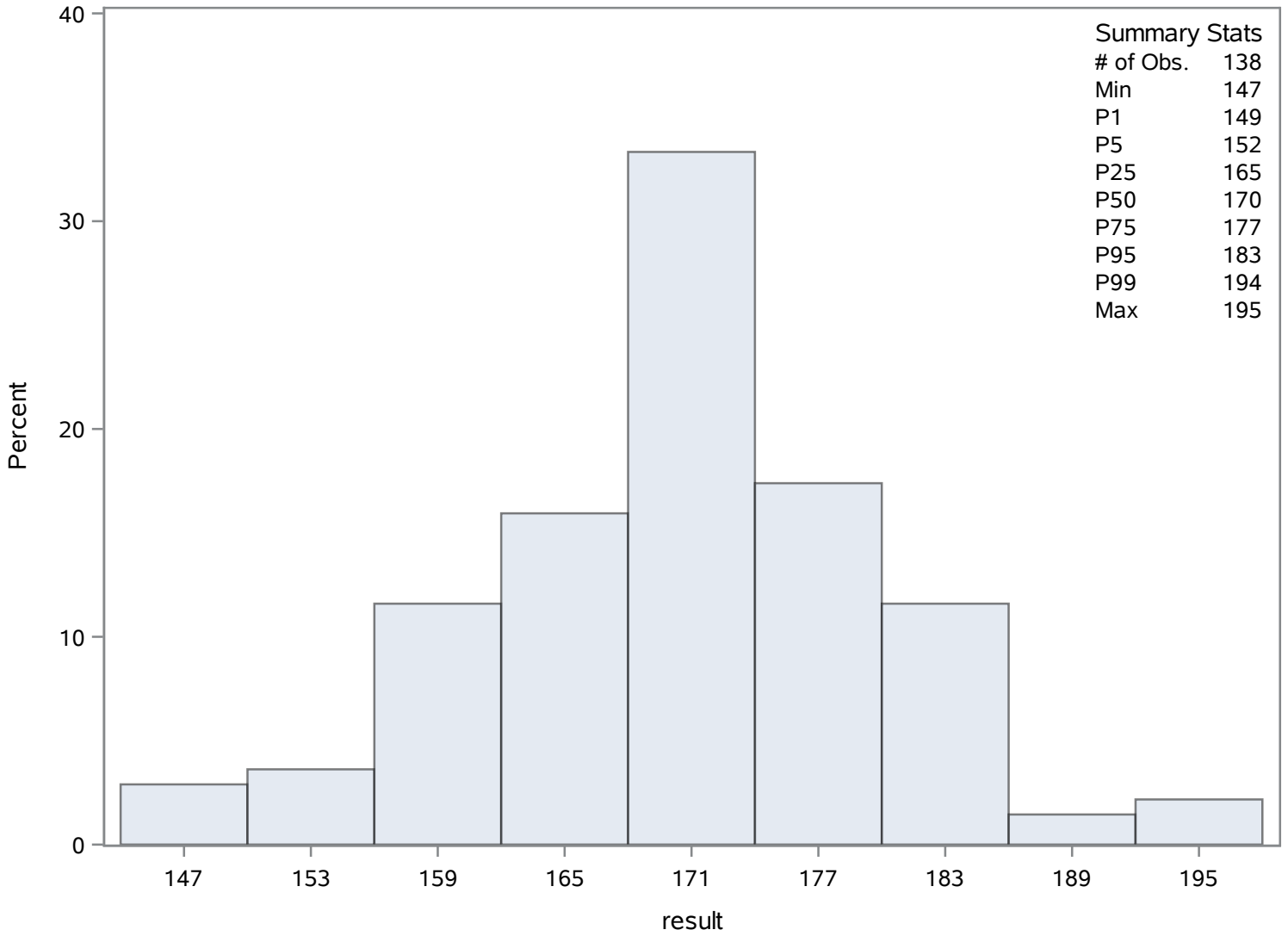
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
147	40	186	127
149	60	188	128
149	42	193	111
149	41	194	110
150	59	195	109

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.84495252	Sum Observations	668.603448
Std Deviation	3.95405099	Variance	15.6345192
Skewness	2.61518222	Kurtosis	8.16403269
Uncorrected SS	5381.2811	Corrected SS	2141.92913
Coeff Variation	81.6117592	Std Error Mean	0.33659117

Basic Statistical Measures			
Location		Variability	
Mean	4.844953	Std Deviation	3.95405
Median	3.543103	Variance	15.63452
Mode	3.900000	Range	23.22000
		Interquartile Range	2.71333

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	14.39418	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	23.72000
99%	22.50000
95%	12.97000
90%	9.30000
75% Q3	5.38000
50% Median	3.54310
25% Q1	2.66667
10%	1.90000
5%	1.43000
1%	0.60000
0% Min	0.50000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_Uncor_ugL

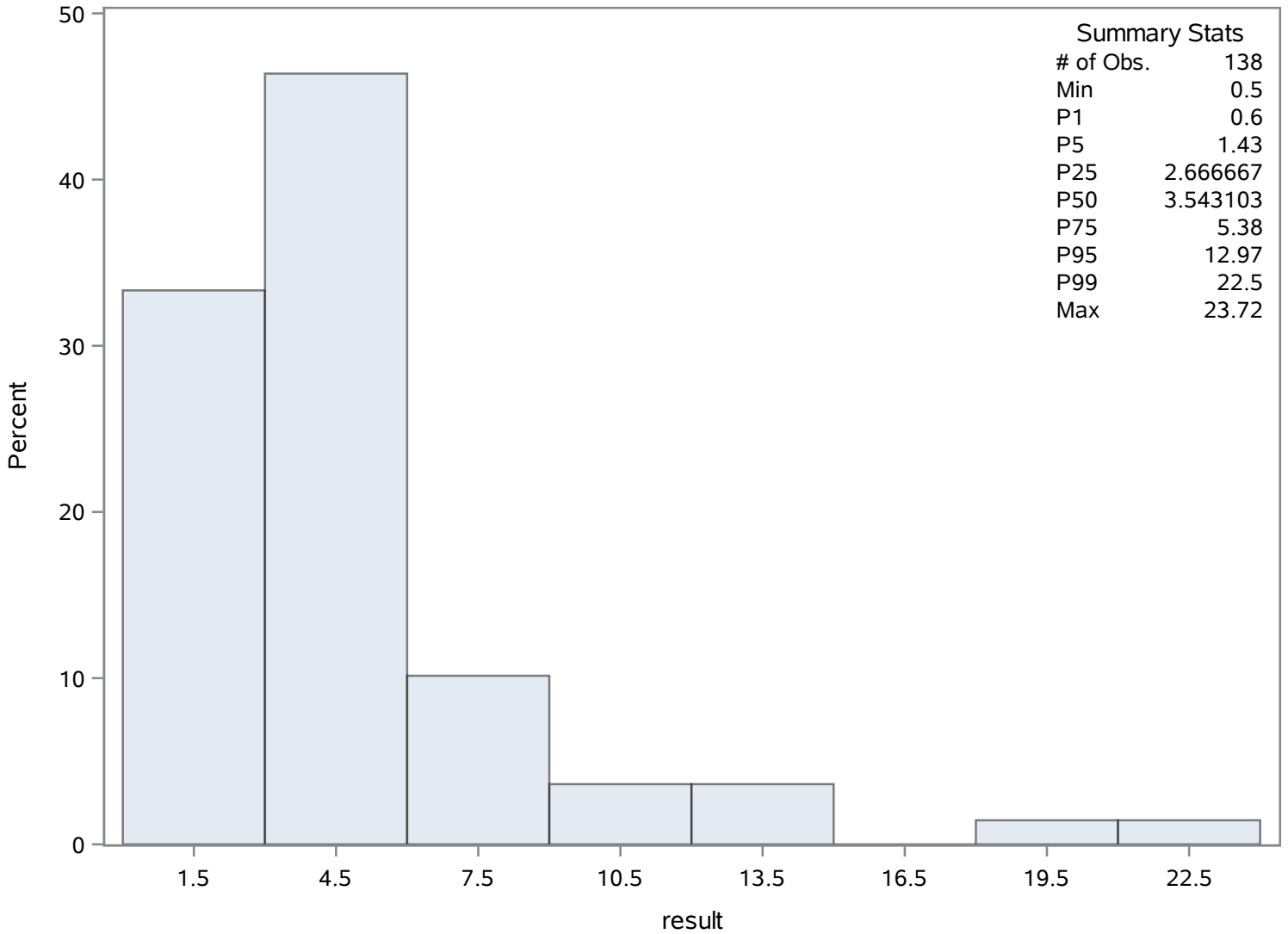
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	204	14.40	199
0.60	202	19.36	248
0.80	203	20.37	245
1.06	266	22.50	246
1.20	145	23.72	244

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	4.282091	Sum Observations	308.310552
Std Deviation	4.24162428	Variance	17.9913766
Skewness	2.70784851	Kurtosis	7.50014386
Uncorrected SS	2597.60158	Corrected SS	1277.38774
Coeff Variation	99.0549776	Std Error Mean	0.49988022

Basic Statistical Measures			
Location		Variability	
Mean	4.282091	Std Deviation	4.24162
Median	2.903274	Variance	17.99138
Mode	1.787584	Range	21.45000
		Interquartile Range	2.40448

Note: The mode displayed is the smallest of 6 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.566234	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	22.34000
99%	22.34000
95%	17.65000
90%	7.37378
75% Q3	4.35948
50% Median	2.90327
25% Q1	1.95500
10%	1.68000
5%	1.22896

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

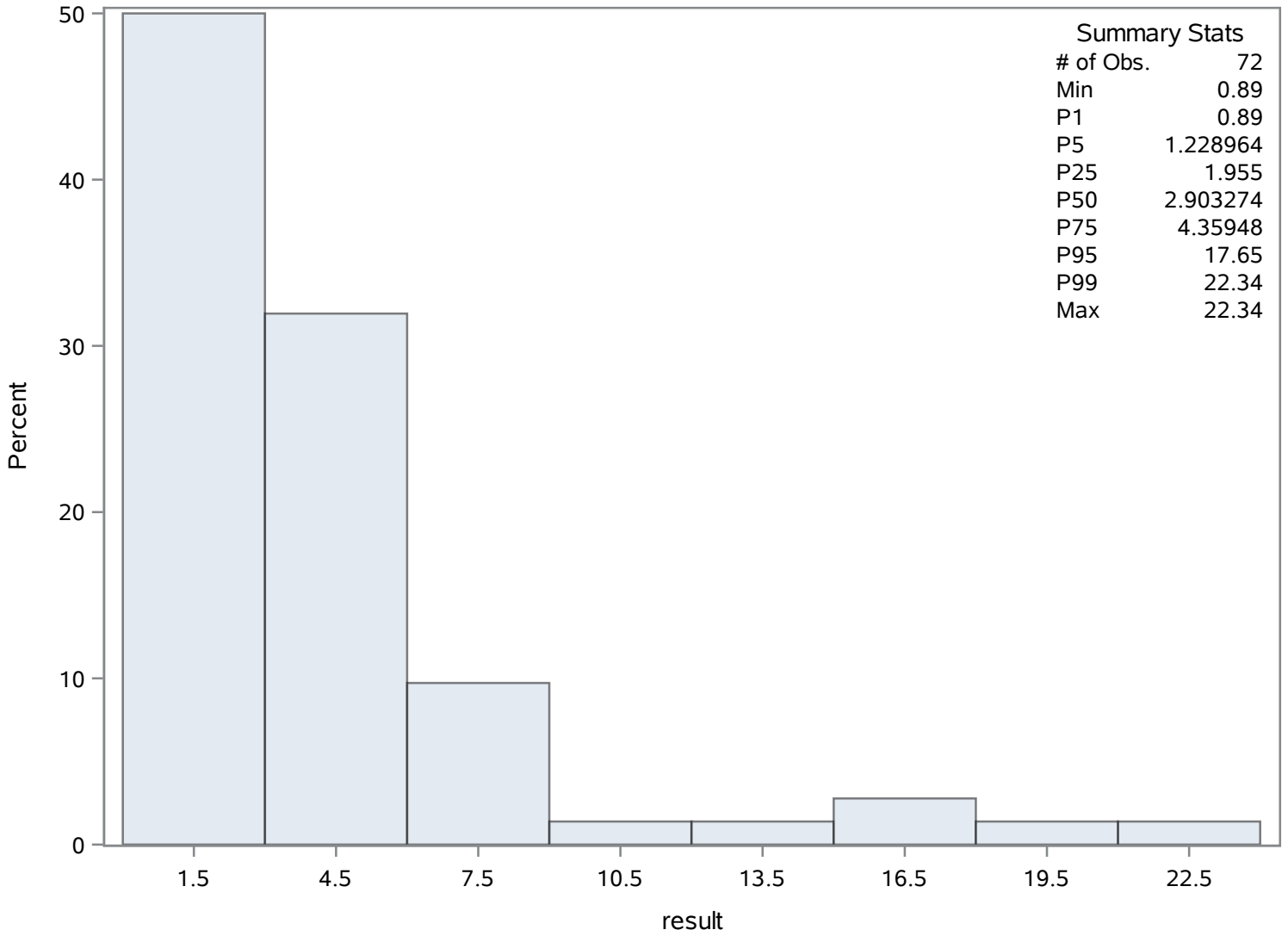
Quantiles (Definition 5)	
Level	Quantile
1%	0.89000
0% Min	0.89000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.89000	339	12.07	321
0.89000	338	17.65	317
1.12000	337	17.65	320
1.22896	279	18.96	318
1.22896	277	22.34	316

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	26.8550725	Sum Observations	3706
Std Deviation	12.3516308	Variance	152.562784
Skewness	0.99454705	Kurtosis	0.62720913
Uncorrected SS	120426	Corrected SS	20901.1014
Coeff Variation	45.9936604	Std Error Mean	1.05144064

Basic Statistical Measures			
Location		Variability	
Mean	26.85507	Std Deviation	12.35163
Median	25.00000	Variance	152.56278
Mode	15.00000	Range	56.00000
		Interquartile Range	19.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.54122	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	66
99%	64
95%	53
90%	45
75% Q3	35
50% Median	25
25% Q1	16
10%	14
5%	13
1%	11
0% Min	10

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
COLOR_PtCo

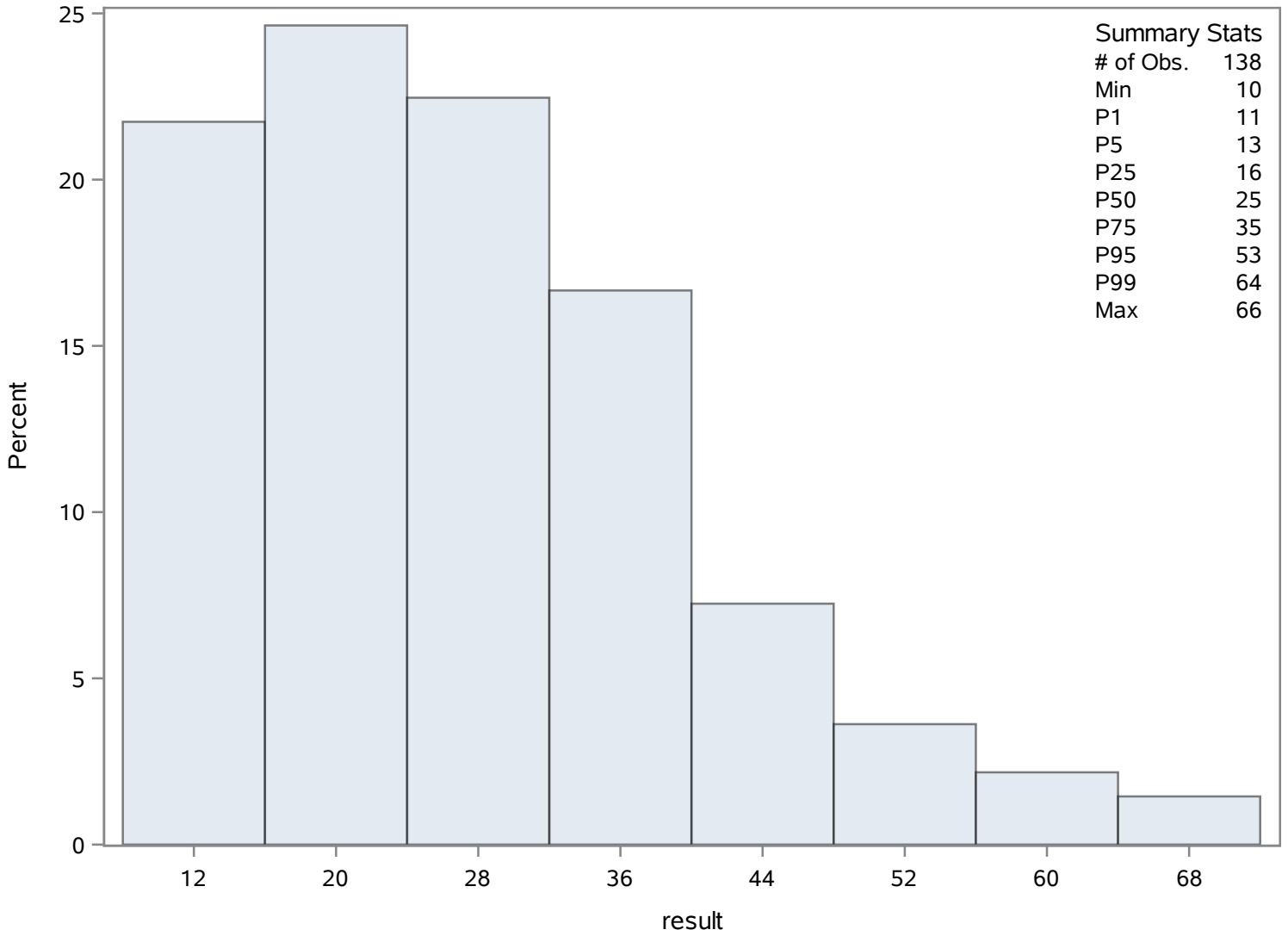
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	414	56	470
11	453	60	385
11	452	60	433
12	451	64	435
13	426	66	434

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.60804348	Sum Observations	911.91
Std Deviation	1.8487245	Variance	3.41778228
Skewness	0.40042959	Kurtosis	-0.3478954
Uncorrected SS	6494.1771	Corrected SS	468.236172
Coeff Variation	27.9768816	Std Error Mean	0.15737388

Basic Statistical Measures			
Location		Variability	
Mean	6.608043	Std Deviation	1.84872
Median	6.475000	Variance	3.41778
Mode	5.500000	Range	7.84000
		Interquartile Range	2.53000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	41.98946	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.040
99%	11.000
95%	10.360
90%	9.300
75% Q3	7.830
50% Median	6.475
25% Q1	5.300
10%	4.270
5%	3.600
1%	3.500
0% Min	3.200

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
DO_mgL

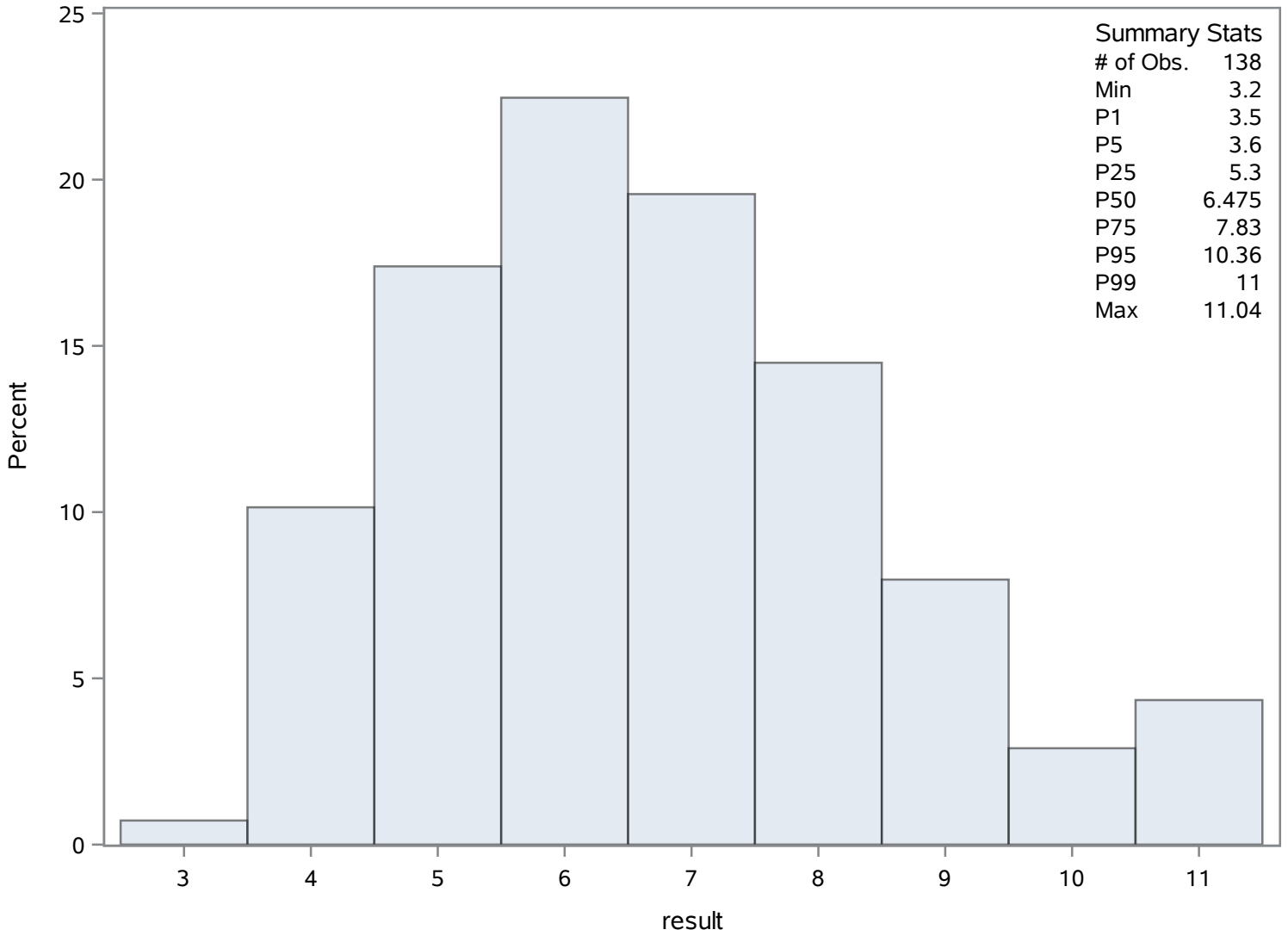
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.2	499	10.62	614
3.5	516	10.72	615
3.5	513	10.76	613
3.5	501	11.00	495
3.5	500	11.04	529

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	31.0514493	Sum Observations	4285.1
Std Deviation	17.552475	Variance	308.089377
Skewness	1.01828753	Kurtosis	2.35654294
Uncorrected SS	175266.81	Corrected SS	42208.2447
Coeff Variation	56.5270716	Std Error Mean	1.49416589

Basic Statistical Measures			
Location		Variability	
Mean	31.05145	Std Deviation	17.55247
Median	30.00000	Variance	308.08938
Mode	38.00000	Range	97.00000
		Interquartile Range	23.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	20.78179	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	100
99%	96
95%	59
90%	49
75% Q3	41
50% Median	30
25% Q1	18
10%	9
5%	5
1%	3
0% Min	3

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NH4_ugl

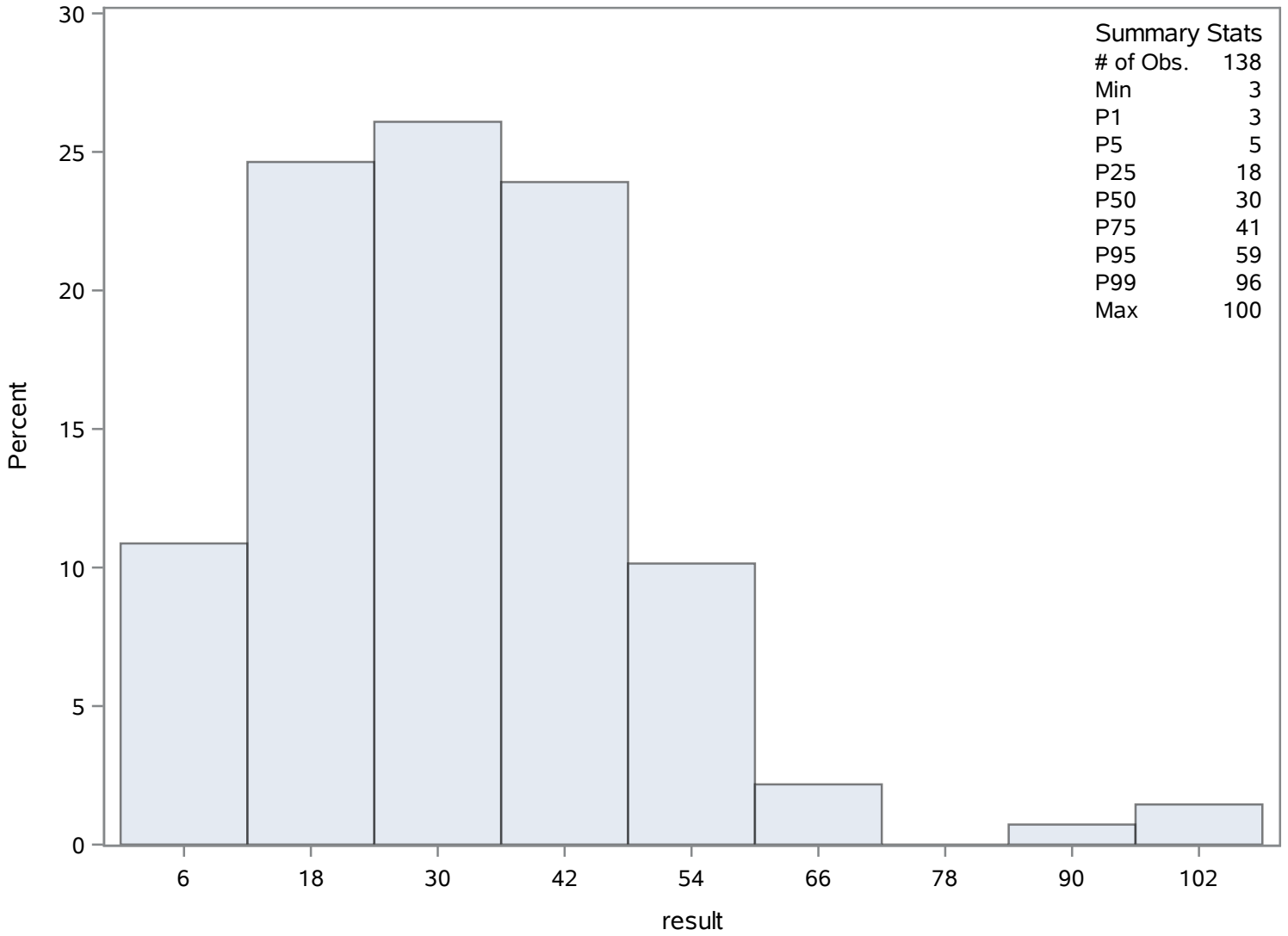
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3	675	67	724
3	654	69	637
3	653	89	762
4	668	96	761
4	652	100	760

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	80.7014599	Sum Observations	11056.1
Std Deviation	68.1313934	Variance	4641.88676
Skewness	1.17680892	Kurtosis	0.76828935
Uncorrected SS	1523540.01	Corrected SS	631296.6
Coeff Variation	84.4239912	Std Error Mean	5.82085777

Basic Statistical Measures			
Location		Variability	
Mean	80.70146	Std Deviation	68.13139
Median	65.00000	Variance	4642
Mode	9.00000	Range	276.00000
		Interquartile Range	87.00000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	13.86419	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	280
99%	270
95%	255
90%	181
75% Q3	110
50% Median	65
25% Q1	23
10%	14
5%	9

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NO3_ugL

The UNIVARIATE Procedure
Variable: result

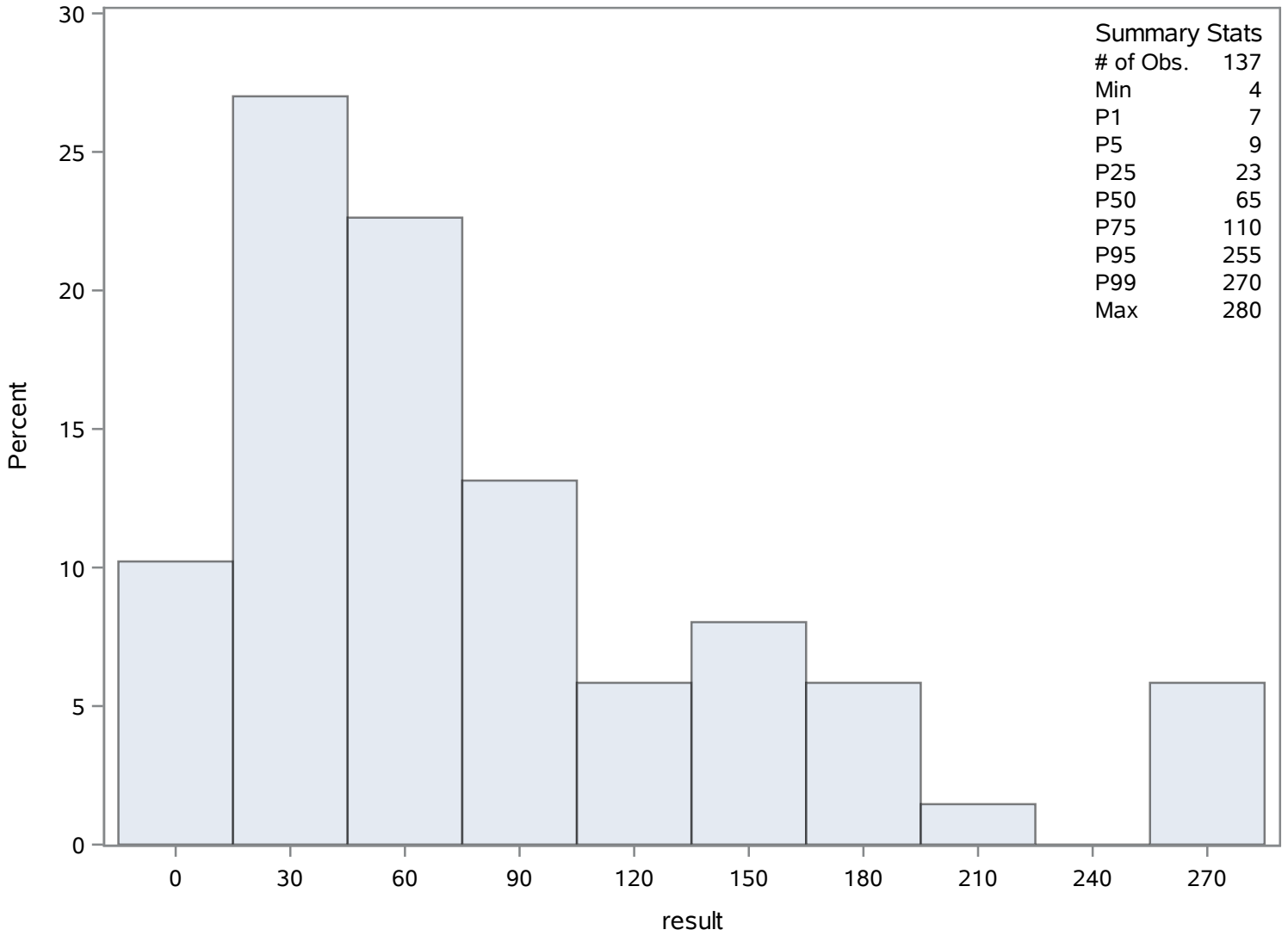
Quantiles (Definition 5)	
Level	Quantile
1%	7
0% Min	4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	790	256	899
7	774	258	895
7	773	258	898
9	886	270	816
9	885	280	817

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	8.54376812	Sum Observations	1179.04
Std Deviation	4.14593112	Variance	17.1887448
Skewness	1.13264695	Kurtosis	1.16749707
Uncorrected SS	12428.3024	Corrected SS	2354.85804
Coeff Variation	48.5257917	Std Error Mean	0.35292509

Basic Statistical Measures			
Location		Variability	
Mean	8.543768	Std Deviation	4.14593
Median	7.825000	Variance	17.18874
Mode	3.700000	Range	18.77000
		Interquartile Range	4.17000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.20845	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21.010
99%	20.350
95%	18.000
90%	14.200
75% Q3	9.910
50% Median	7.825
25% Q1	5.740
10%	4.100
5%	3.490

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SAL_Perc

The UNIVARIATE Procedure
Variable: result

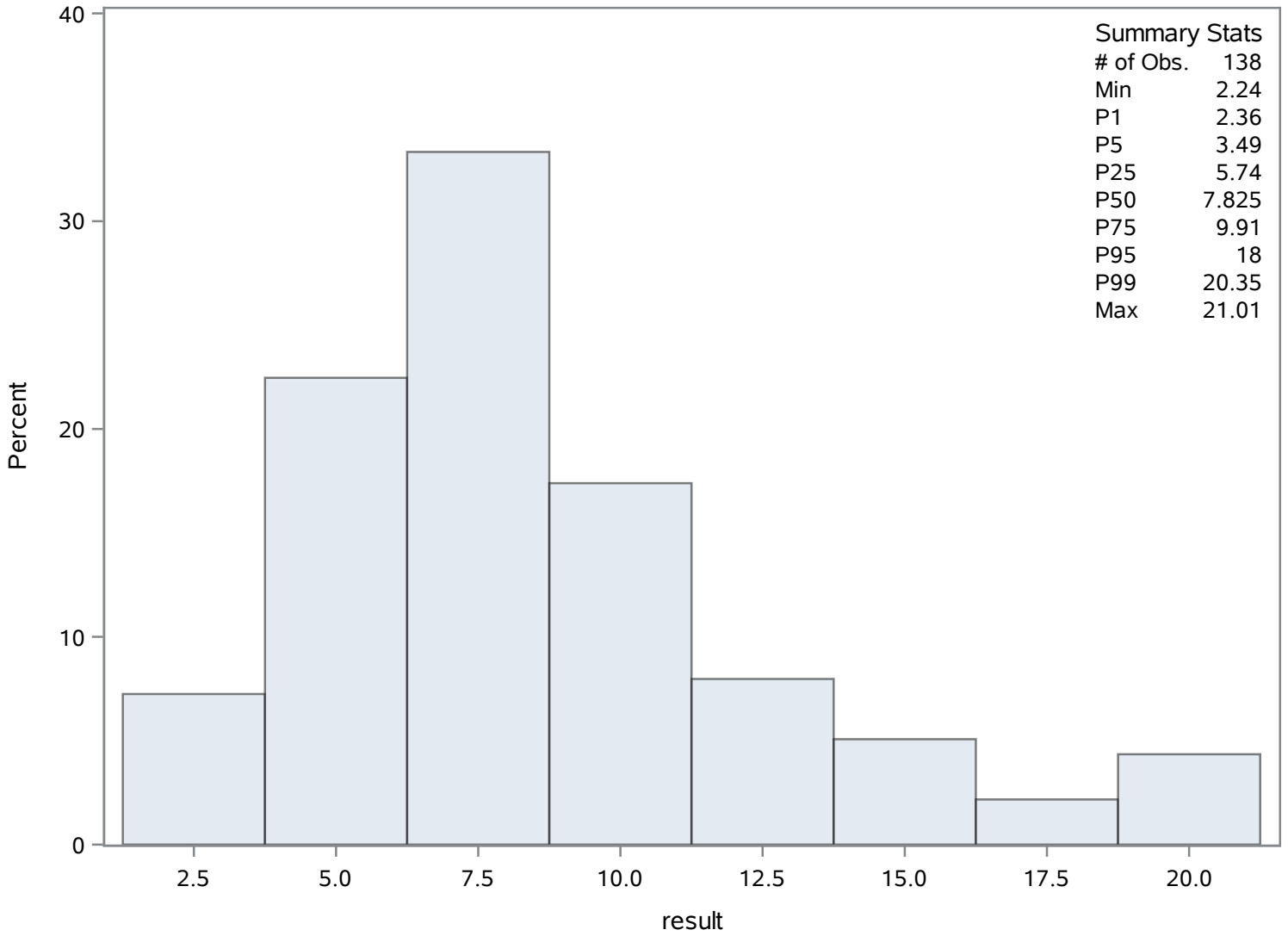
Quantiles (Definition 5)	
Level	Quantile
1%	2.360
0% Min	2.240

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.24	938	19.91	983
2.36	937	20.03	982
2.86	936	20.30	1012
2.93	963	20.35	981
3.18	965	21.01	1011

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	14.6160725	Sum Observations	2017.018
Std Deviation	6.58694663	Variance	43.387866
Skewness	0.97028552	Kurtosis	0.70230519
Uncorrected SS	35425.0189	Corrected SS	5944.13764
Coeff Variation	45.0664613	Std Error Mean	0.56071813

Basic Statistical Measures			
Location		Variability	
Mean	14.61607	Std Deviation	6.58695
Median	13.54500	Variance	43.38787
Mode	16.60000	Range	29.06000
		Interquartile Range	6.76000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.0667	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	33.300
99%	32.560
95%	29.180
90%	23.720
75% Q3	16.900
50% Median	13.545
25% Q1	10.140
10%	7.240
5%	5.850
1%	4.470
0% Min	4.240

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SPCOND_mS_cm

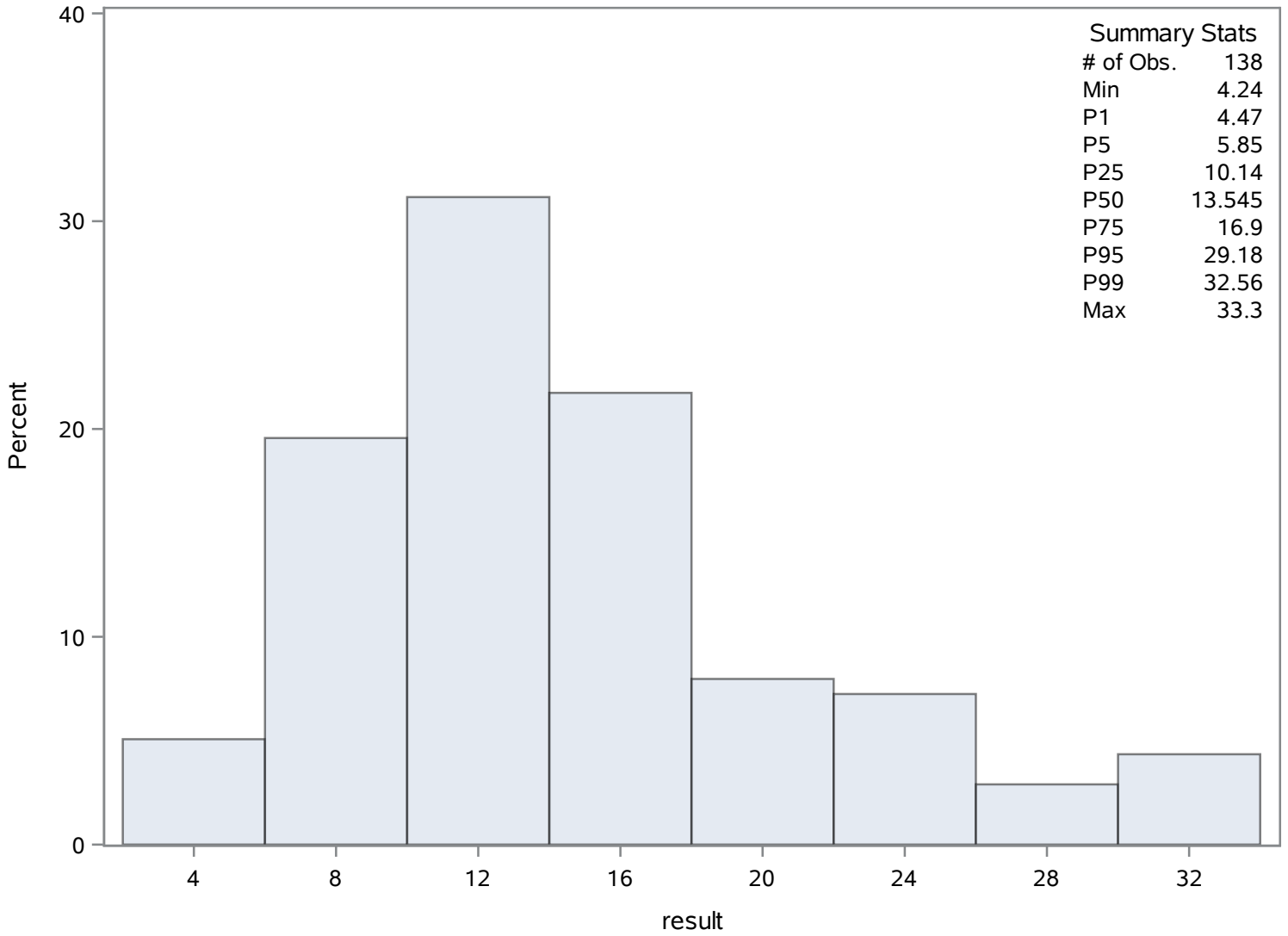
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.24	1076	31.93	1121
4.47	1075	32.10	1120
5.32	1074	32.38	1150
5.39	1101	32.56	1119
5.52	1069	33.30	1149

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	135	Sum Weights	135
Mean	5.0962963	Sum Observations	688
Std Deviation	3.37876175	Variance	11.416031
Skewness	1.03512715	Kurtosis	0.63198498
Uncorrected SS	5036	Corrected SS	1529.74815
Coeff Variation	66.2983773	Std Error Mean	0.29079751

Basic Statistical Measures			
Location		Variability	
Mean	5.096296	Std Deviation	3.37876
Median	4.000000	Variance	11.41603
Mode	4.000000	Range	14.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.52524	Pr > t 	<.0001
Sign	M	67.5	Pr >= M 	<.0001
Signed Rank	S	4590	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15
99%	15
95%	12
90%	9
75% Q3	7
50% Median	4
25% Q1	2
10%	2
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SRP_ugL

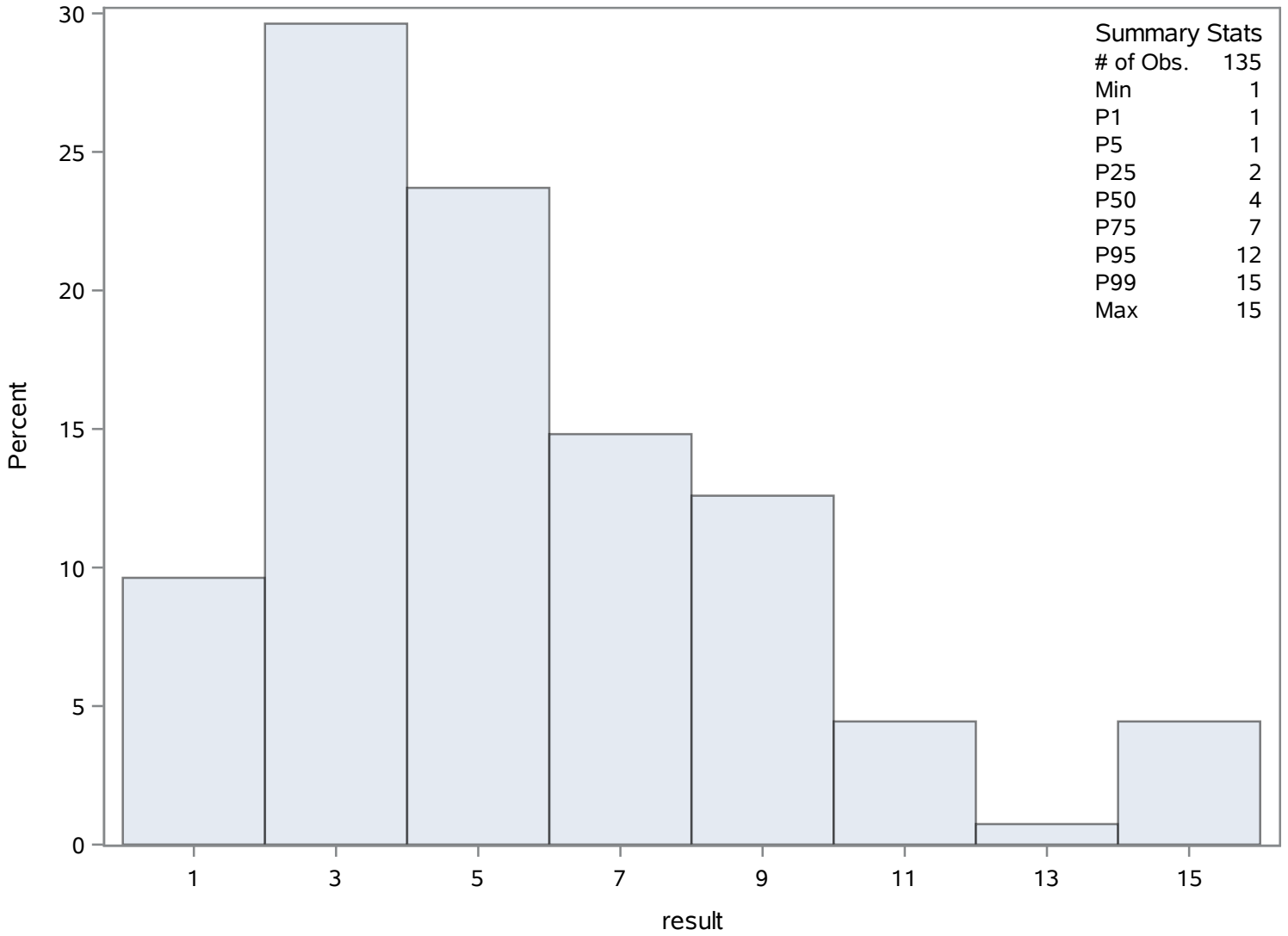
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1249	14	1306
1	1248	14	1308
1	1240	14	1309
1	1239	15	1307
1	1238	15	1310

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.3307246	Sum Observations	3219.64
Std Deviation	5.48323279	Variance	30.0658418
Skewness	0.02524805	Kurtosis	-1.3810858
Uncorrected SS	79235.5546	Corrected SS	4119.02033
Coeff Variation	23.5021967	Std Error Mean	0.46676377

Basic Statistical Measures			
Location		Variability	
Mean	23.33072	Std Deviation	5.48323
Median	21.99500	Variance	30.06584
Mode	14.81000	Range	18.60000
		Interquartile Range	10.56000

Note: The mode displayed is the smallest of 3 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	49.98401	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.900
99%	31.850
95%	31.110
90%	30.530
75% Q3	28.960
50% Median	21.995
25% Q1	18.400
10%	16.080
5%	14.810

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TEMP_C

The UNIVARIATE Procedure
Variable: result

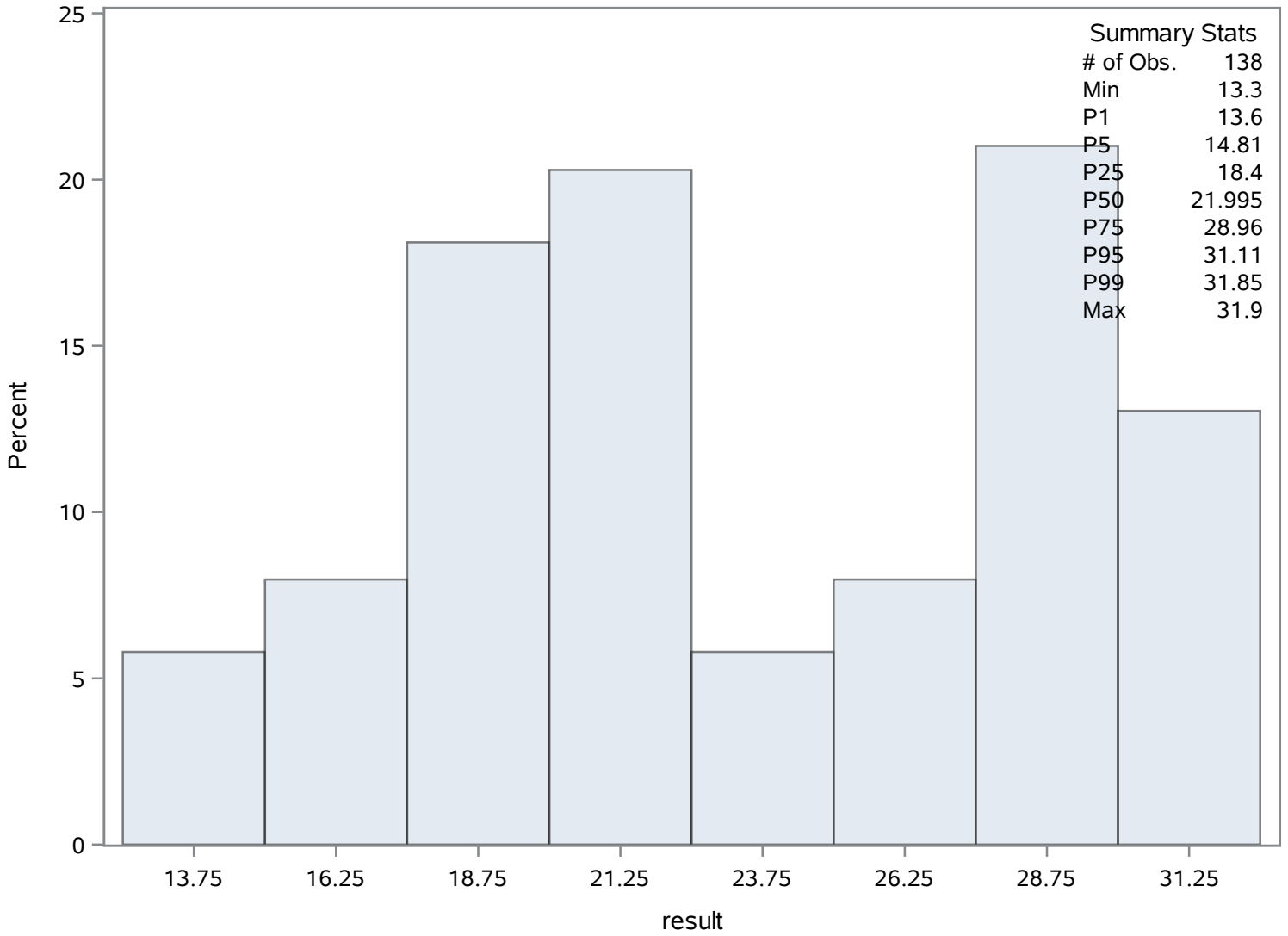
Quantiles (Definition 5)	
Level	Quantile
1%	13.600
0% Min	13.300

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.30	1338	31.55	1431
13.60	1339	31.60	1432
13.90	1340	31.64	1433
14.26	1425	31.85	1397
14.28	1426	31.90	1396

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	470.717391	Sum Observations	64959
Std Deviation	153.697494	Variance	23622.9195
Skewness	0.92342727	Kurtosis	1.48910791
Uncorrected SS	33813671	Corrected SS	3236339.98
Coeff Variation	32.6517559	Std Error Mean	13.0835995

Basic Statistical Measures			
Location		Variability	
Mean	470.7174	Std Deviation	153.69749
Median	458.0000	Variance	23623
Mode	470.0000	Range	910.00000
		Interquartile Range	190.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	35.97767	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1050
99%	959
95%	770
90%	670
75% Q3	550
50% Median	458
25% Q1	360
10%	280
5%	260
1%	190
0% Min	140

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TN_ugl

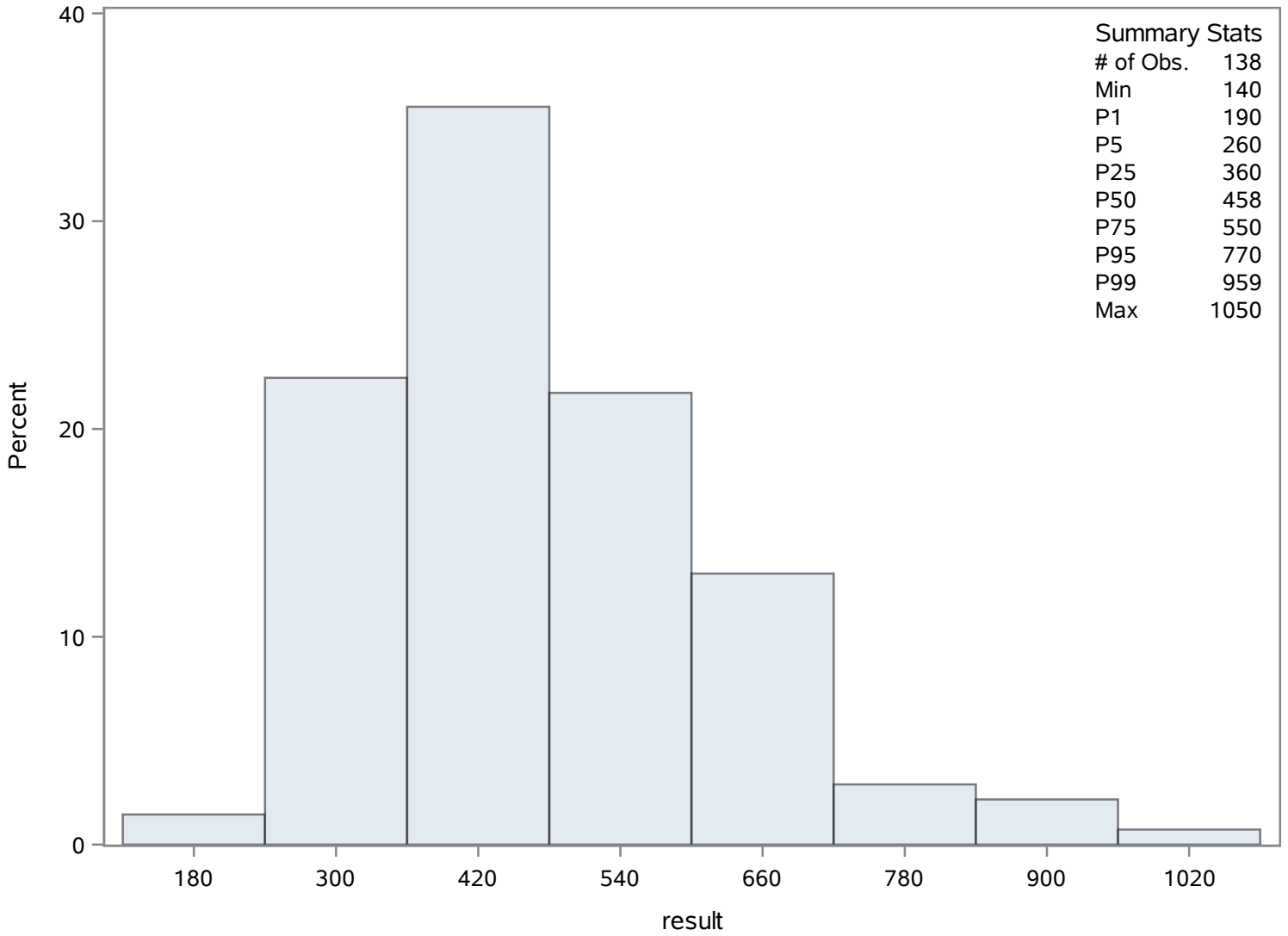
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
140	1576	830	1534
190	1579	860	1533
250	1500	876	1555
250	1476	959	1556
260	1552	1050	1538

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	22.2246377	Sum Observations	3067
Std Deviation	8.13123931	Variance	66.1170528
Skewness	1.50042253	Kurtosis	3.12837059
Uncorrected SS	77221	Corrected SS	9058.03623
Coeff Variation	36.5866001	Std Error Mean	0.69217706

Basic Statistical Measures			
Location		Variability	
Mean	22.22464	Std Deviation	8.13124
Median	20.00000	Variance	66.11705
Mode	20.00000	Range	46.00000
		Interquartile Range	9.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	32.10831	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	54
99%	54
95%	39
90%	32
75% Q3	26
50% Median	20
25% Q1	17
10%	14
5%	13
1%	8
0% Min	8

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TP_ugl

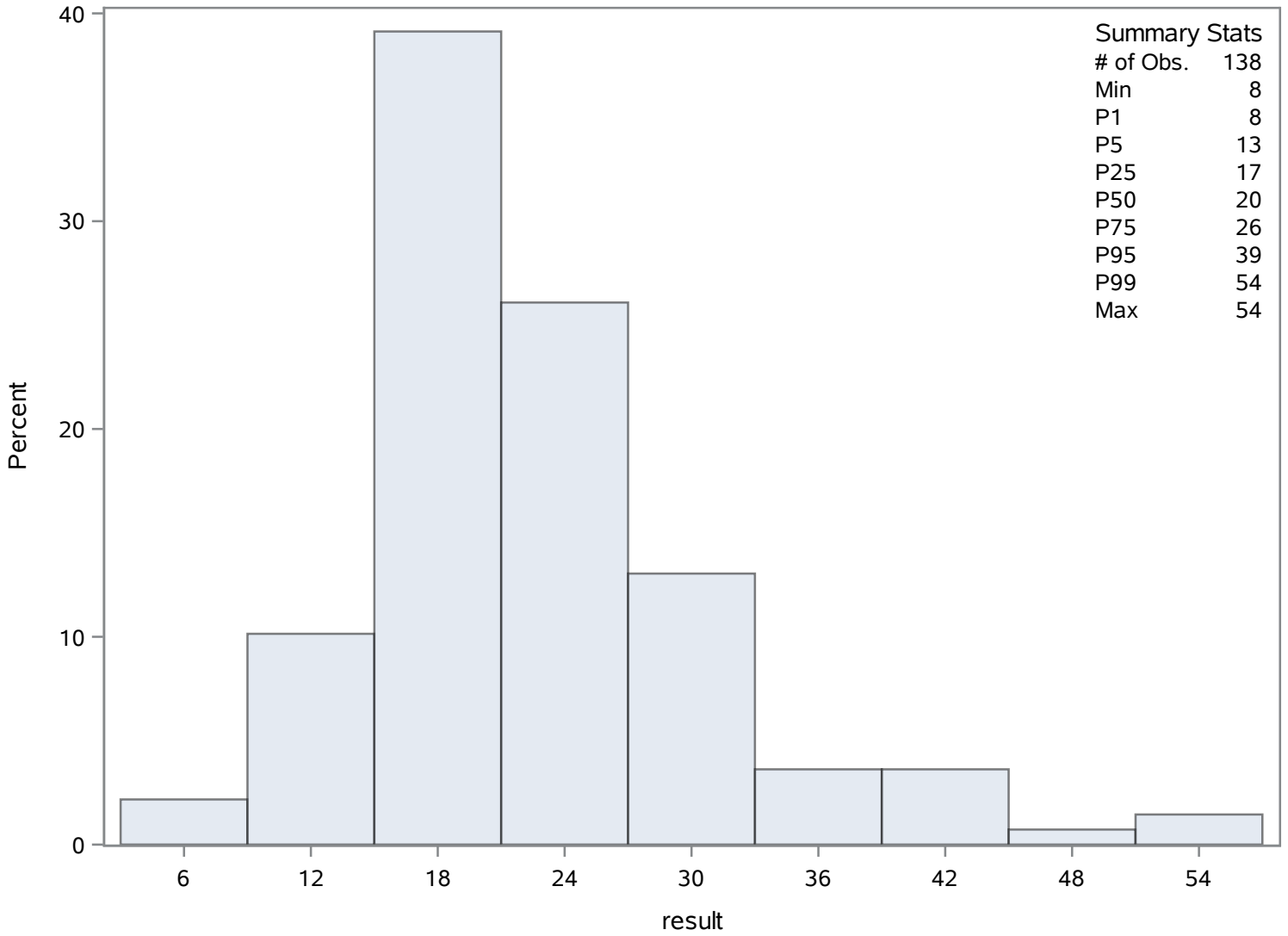
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8	1715	44	1692
8	1714	44	1706
8	1713	47	1696
13	1691	54	1676
13	1689	54	1694

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.85324074	Sum Observations	848.15
Std Deviation	0.20531639	Variance	0.04215482
Skewness	0.36683766	Kurtosis	-0.4902627
Uncorrected SS	6665.2367	Corrected SS	4.51056574
Coeff Variation	2.6144161	Std Error Mean	0.01975658

Basic Statistical Measures			
Location		Variability	
Mean	7.853241	Std Deviation	0.20532
Median	7.835000	Variance	0.04215
Mode	7.650000	Range	0.96000
		Interquartile Range	0.27000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	397.5	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.390
99%	8.300
95%	8.220
90%	8.160
75% Q3	7.975
50% Median	7.835
25% Q1	7.705
10%	7.620
5%	7.550
1%	7.480
0% Min	7.430

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Field

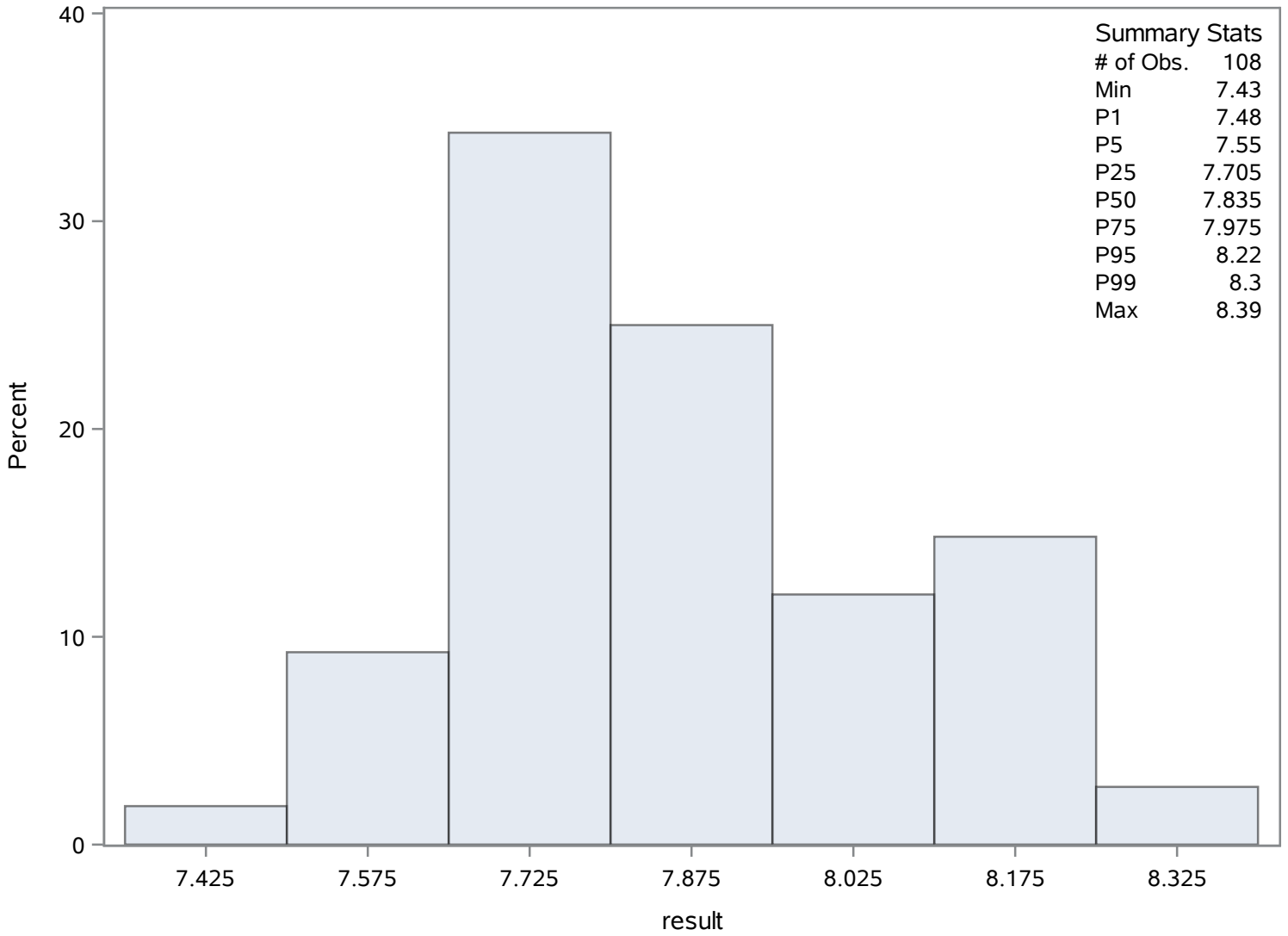
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.43	1788	8.23	1821
7.48	1789	8.24	1822
7.50	1790	8.26	1823
7.51	1815	8.30	1784
7.53	1756	8.39	1737

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.92536232	Sum Observations	1093.7
Std Deviation	0.12675719	Variance	0.01606739
Skewness	0.66646598	Kurtosis	0.67161156
Uncorrected SS	8670.17	Corrected SS	2.20123188
Coeff Variation	1.59938673	Std Error Mean	0.01079029

Basic Statistical Measures			
Location		Variability	
Mean	7.925362	Std Deviation	0.12676
Median	7.900000	Variance	0.01607
Mode	8.000000	Range	0.60000
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	734.4903	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.3
99%	8.3
95%	8.1
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.8
5%	7.8
1%	7.7
0% Min	7.7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Lab

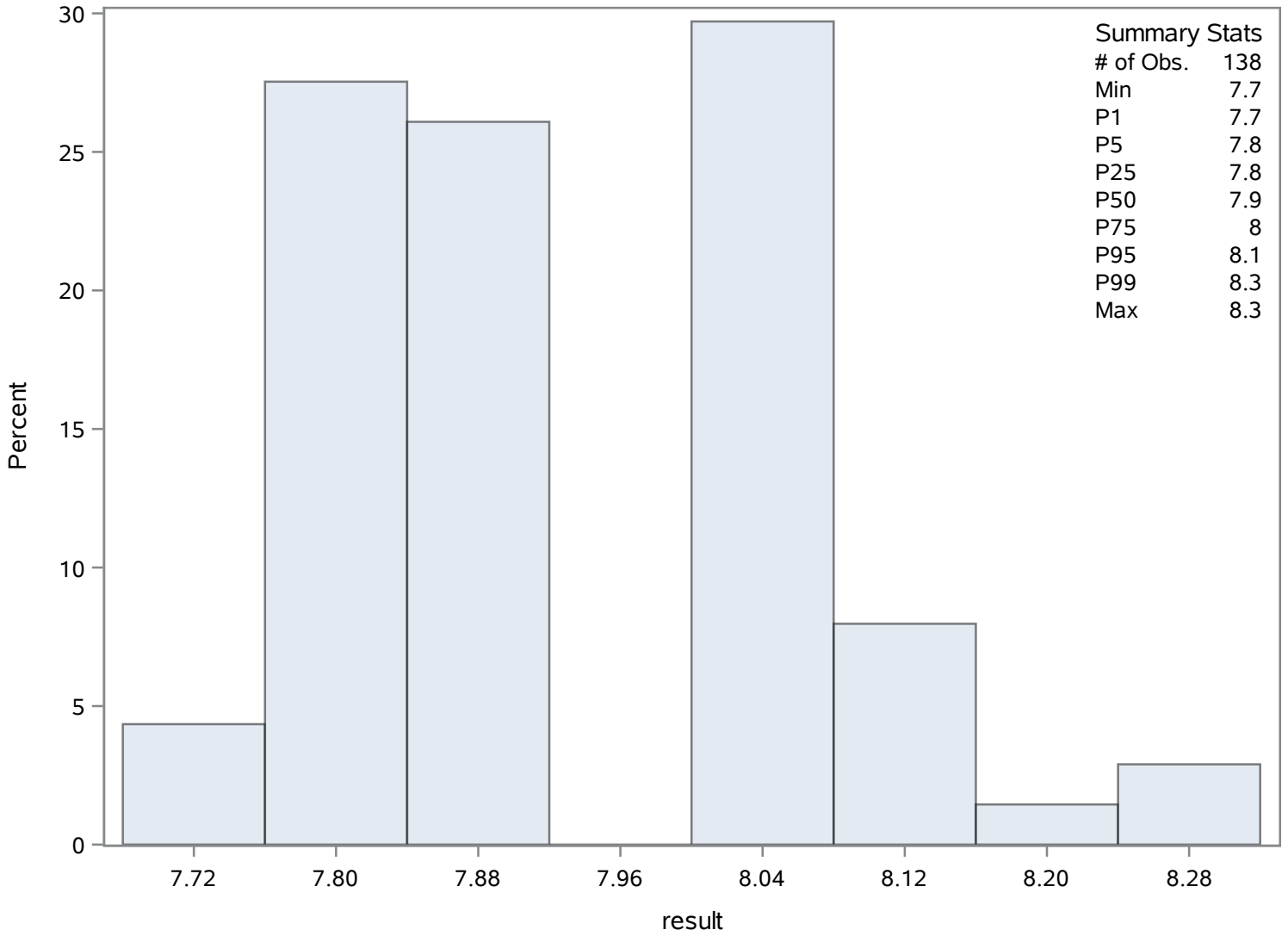
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.7	1916	8.2	1899
7.7	1915	8.3	1875
7.7	1914	8.3	1959
7.7	1859	8.3	1960
7.7	1858	8.3	1961

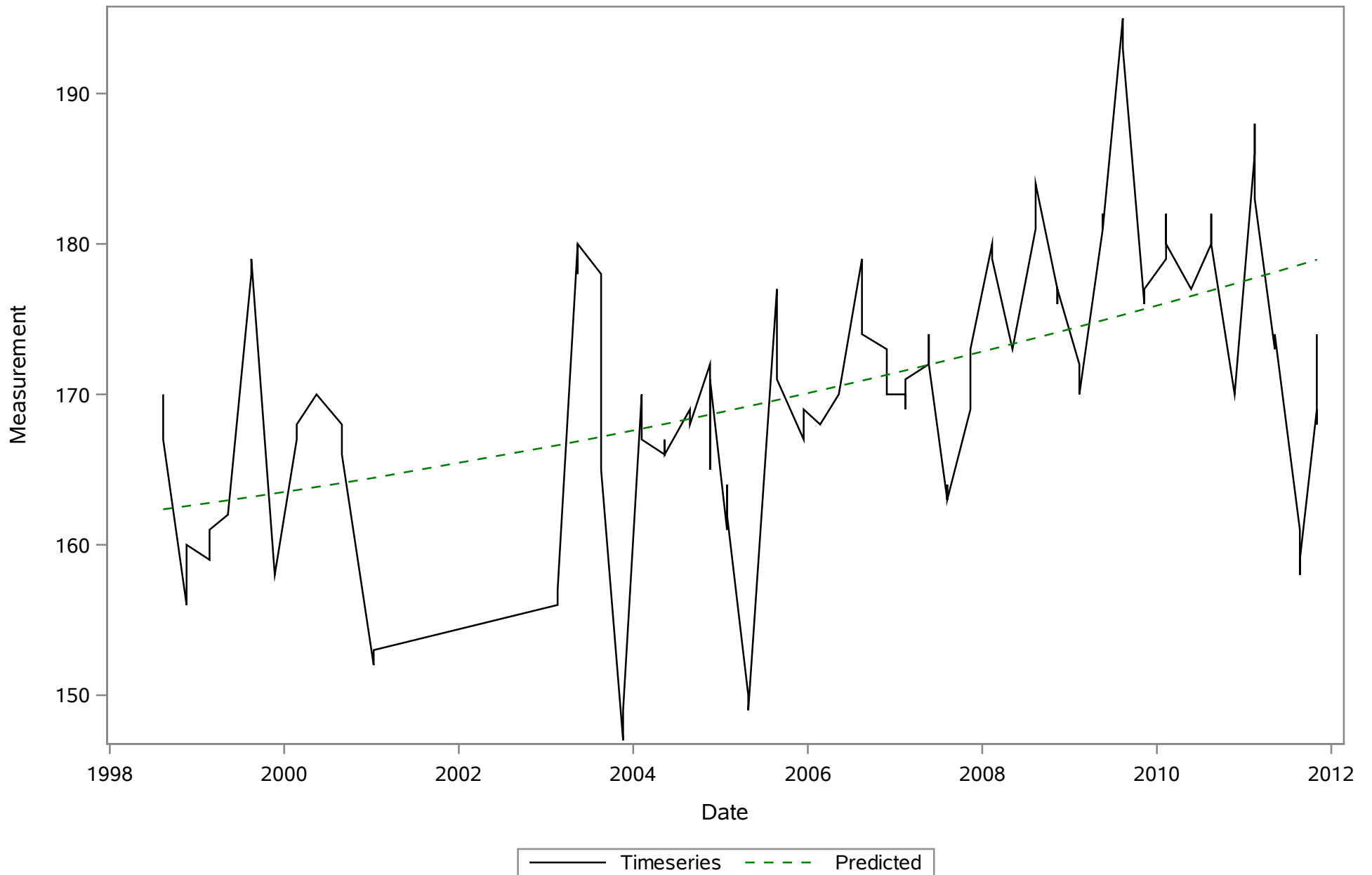
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Lab

The UNIVARIATE Procedure

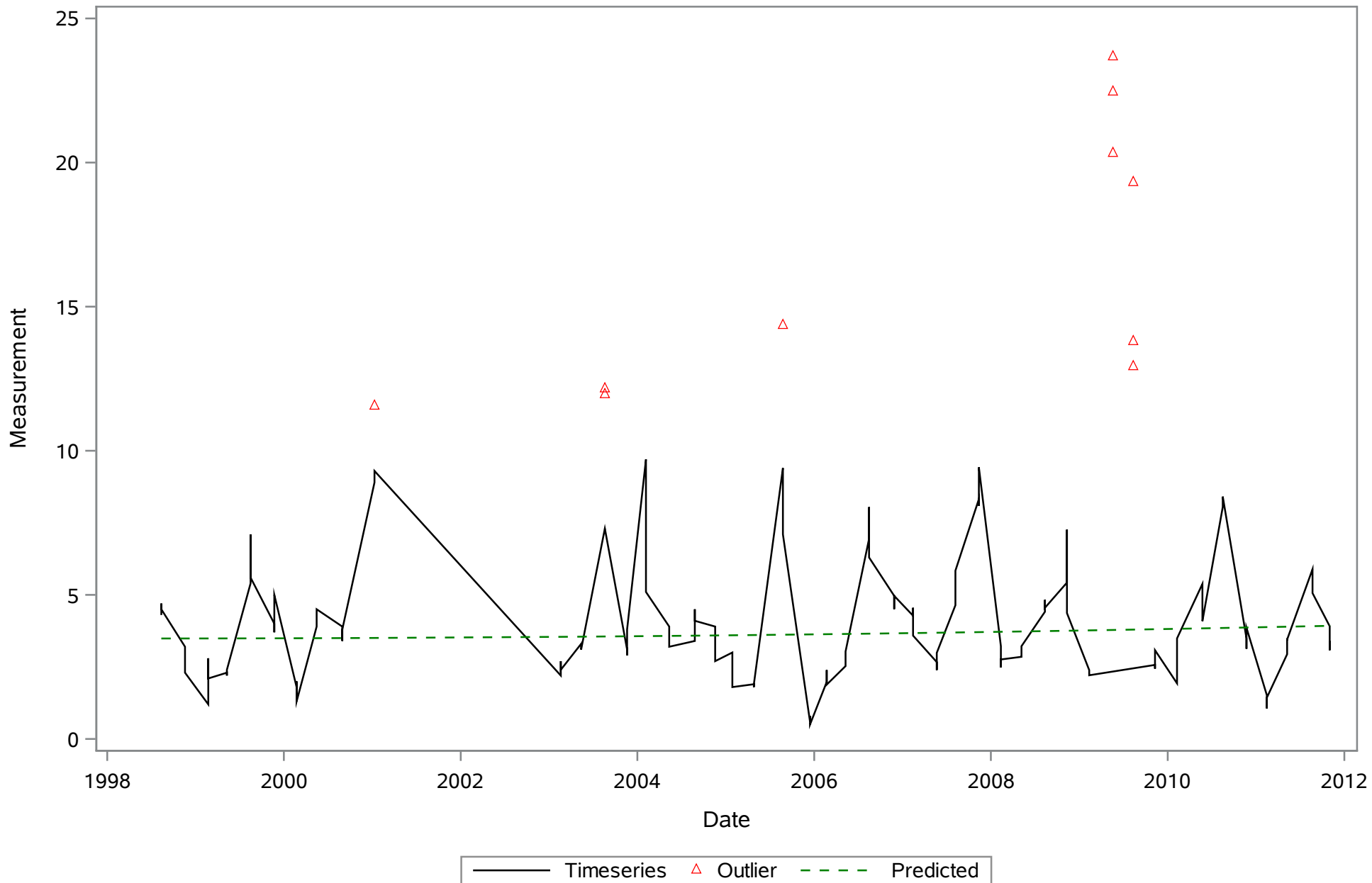
Distribution of result



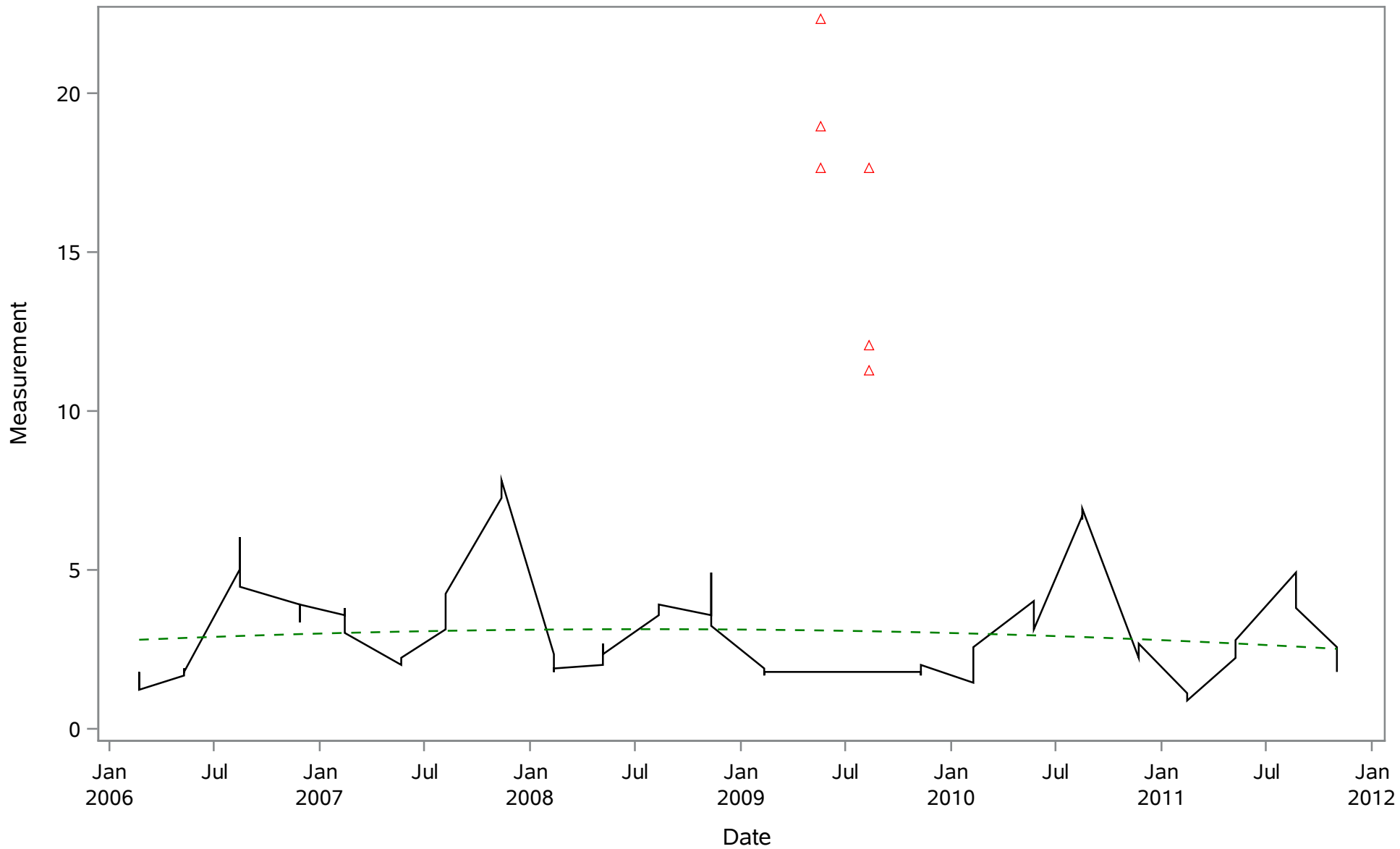
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_Uncor_ugL

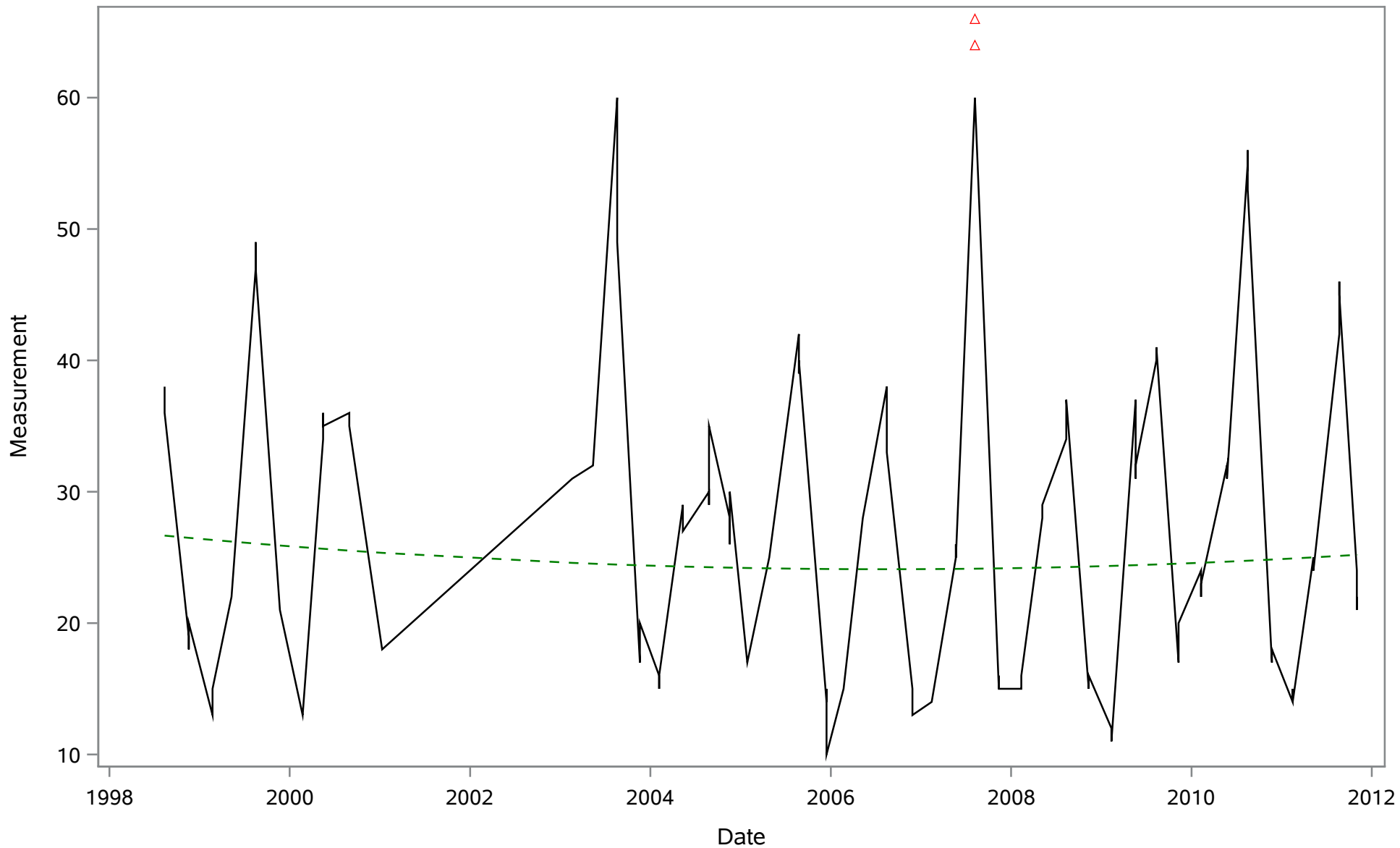


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_cor_uvl



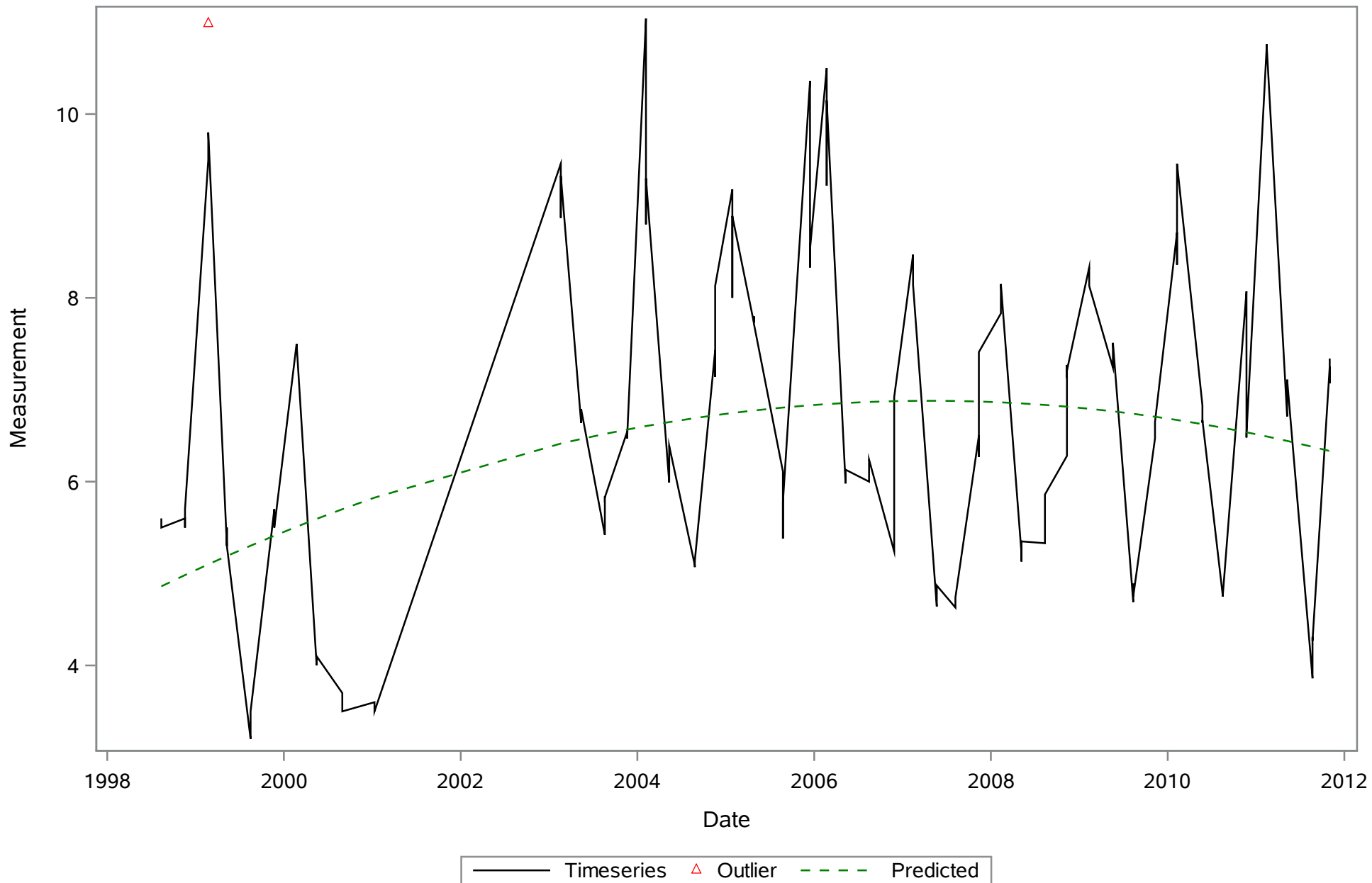
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
COLOR_PtCo

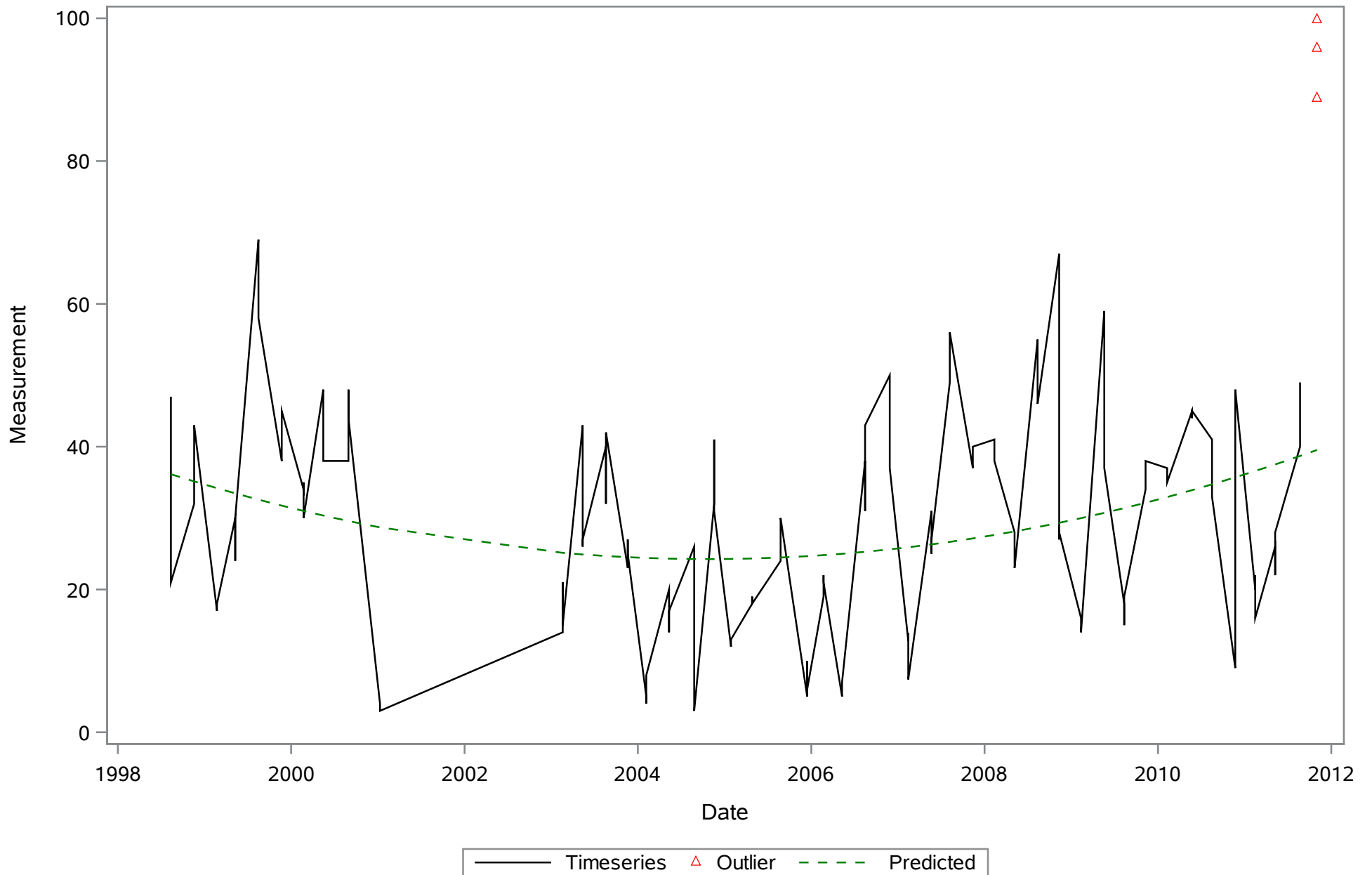


— Timeseries △ Outlier - - - Predicted

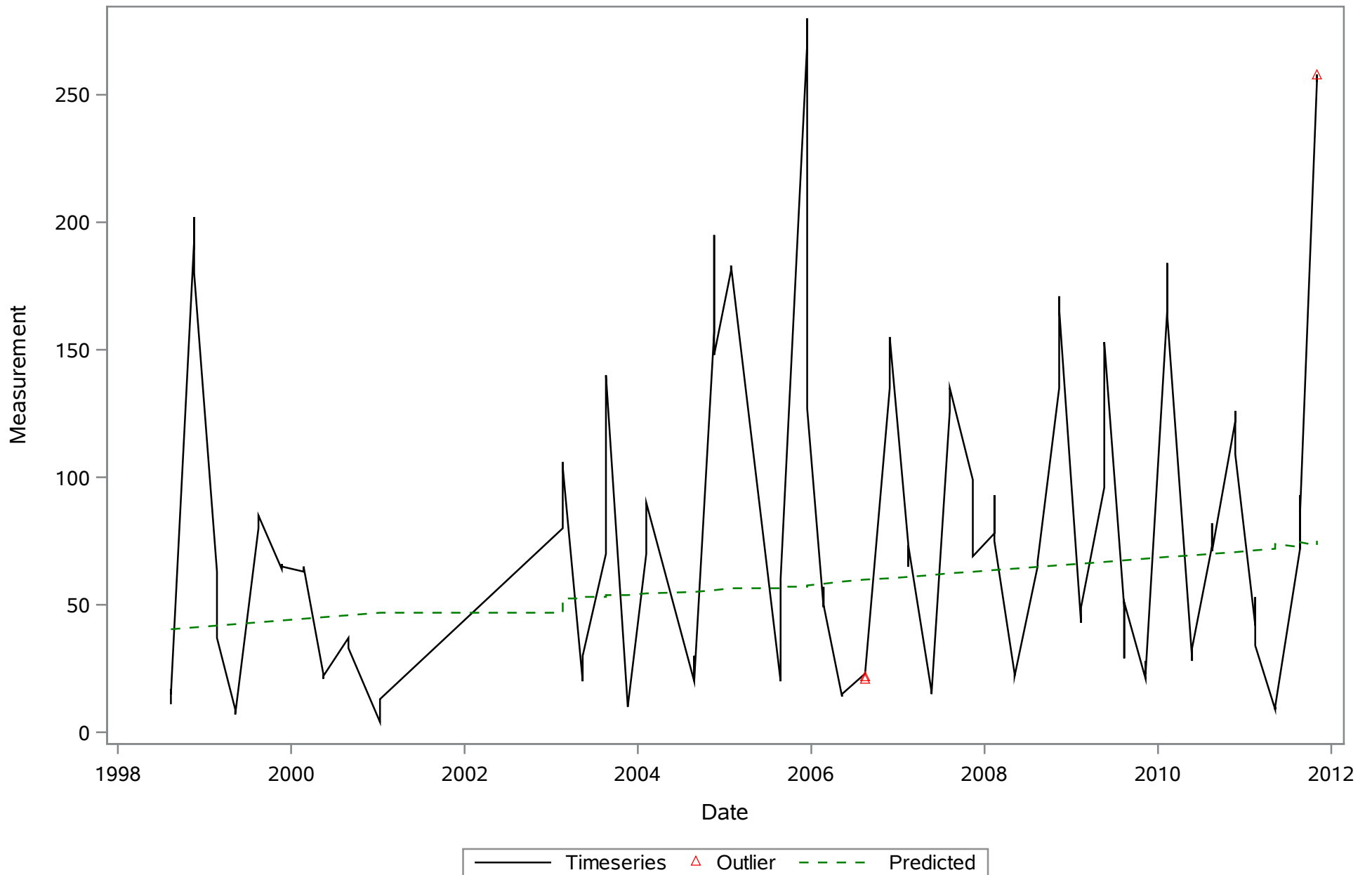
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
DO_mgL



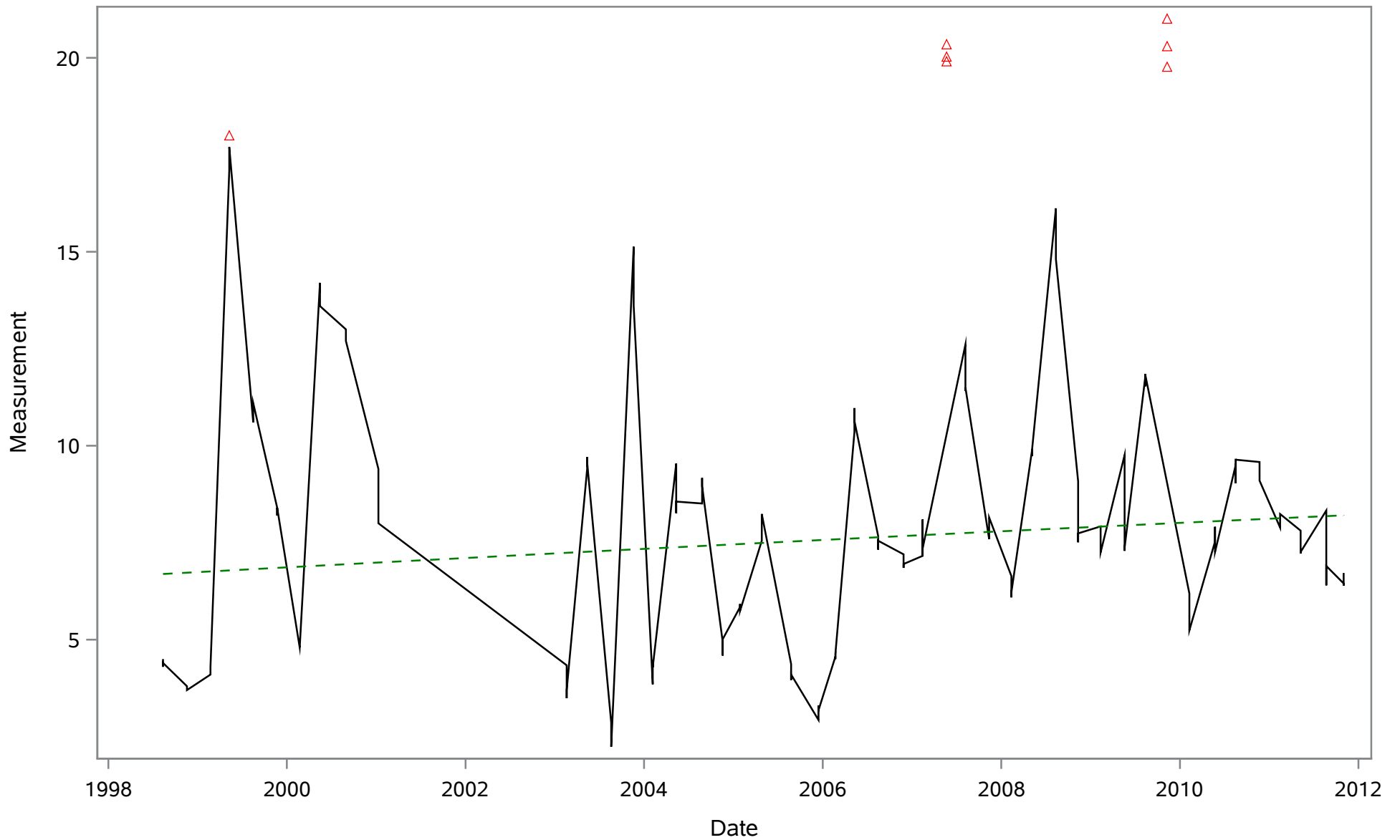
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NH₄_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NO3_ugL

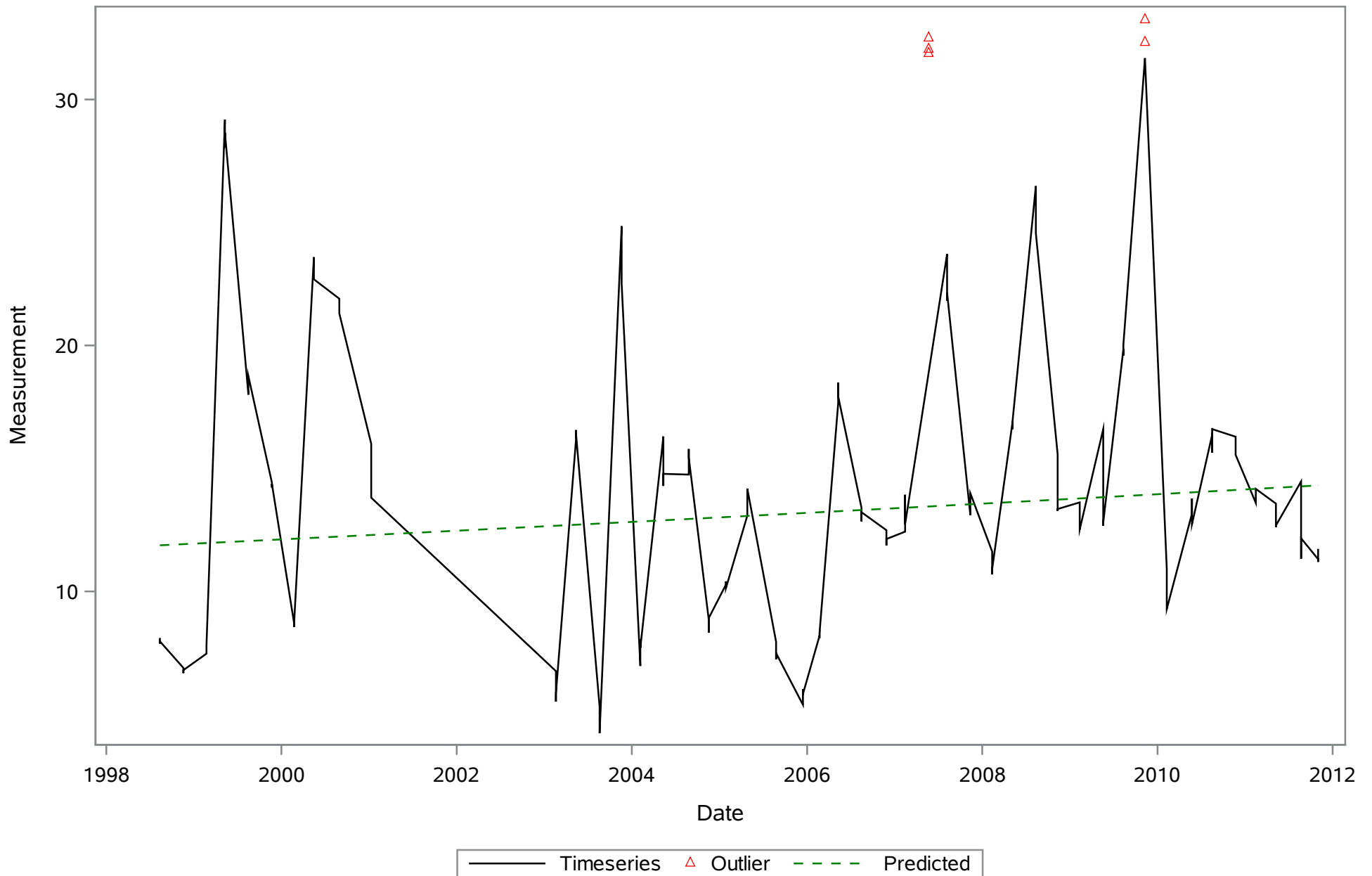


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SAL_Perc

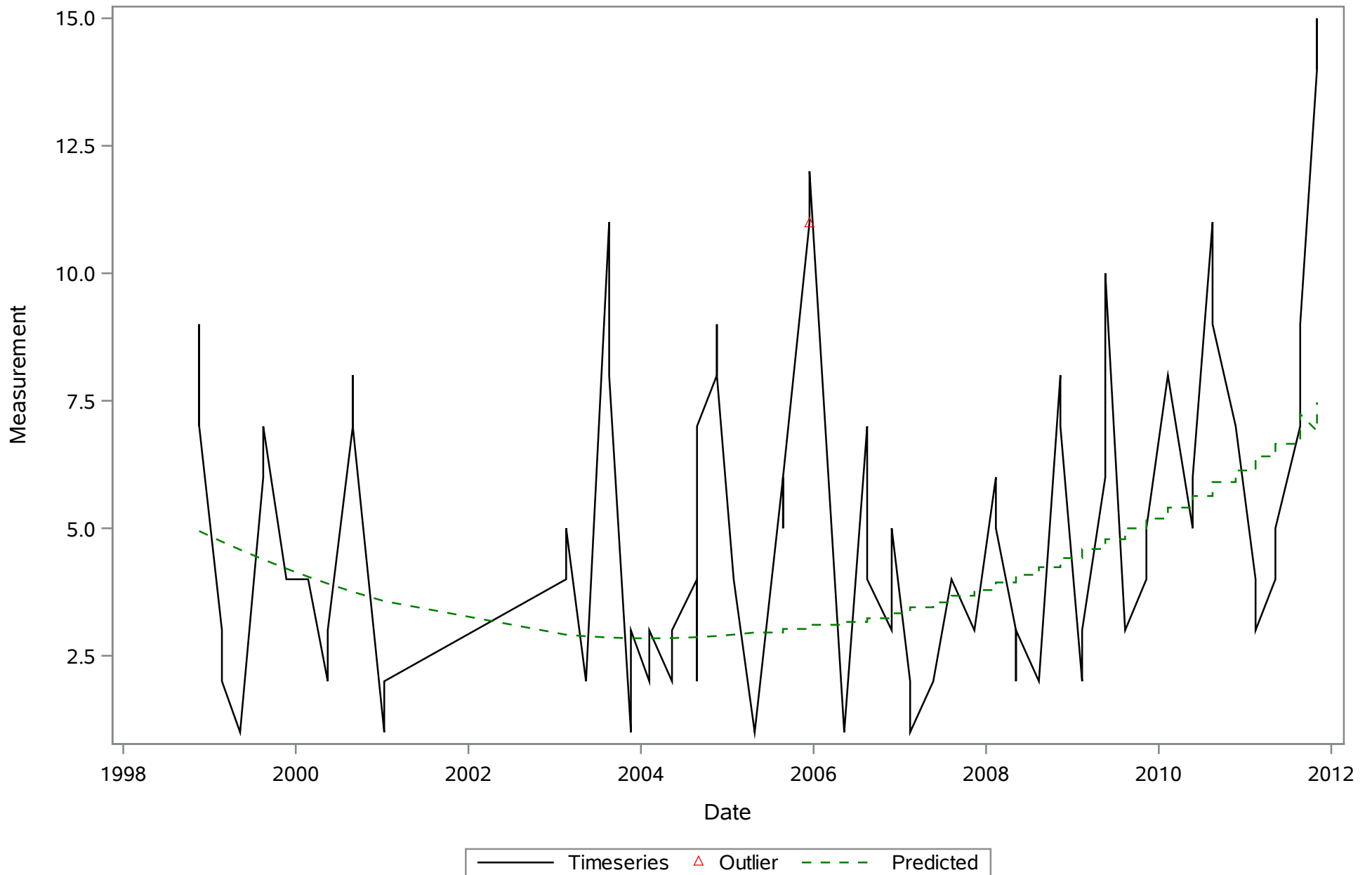


— Timeseries △ Outlier - - - Predicted

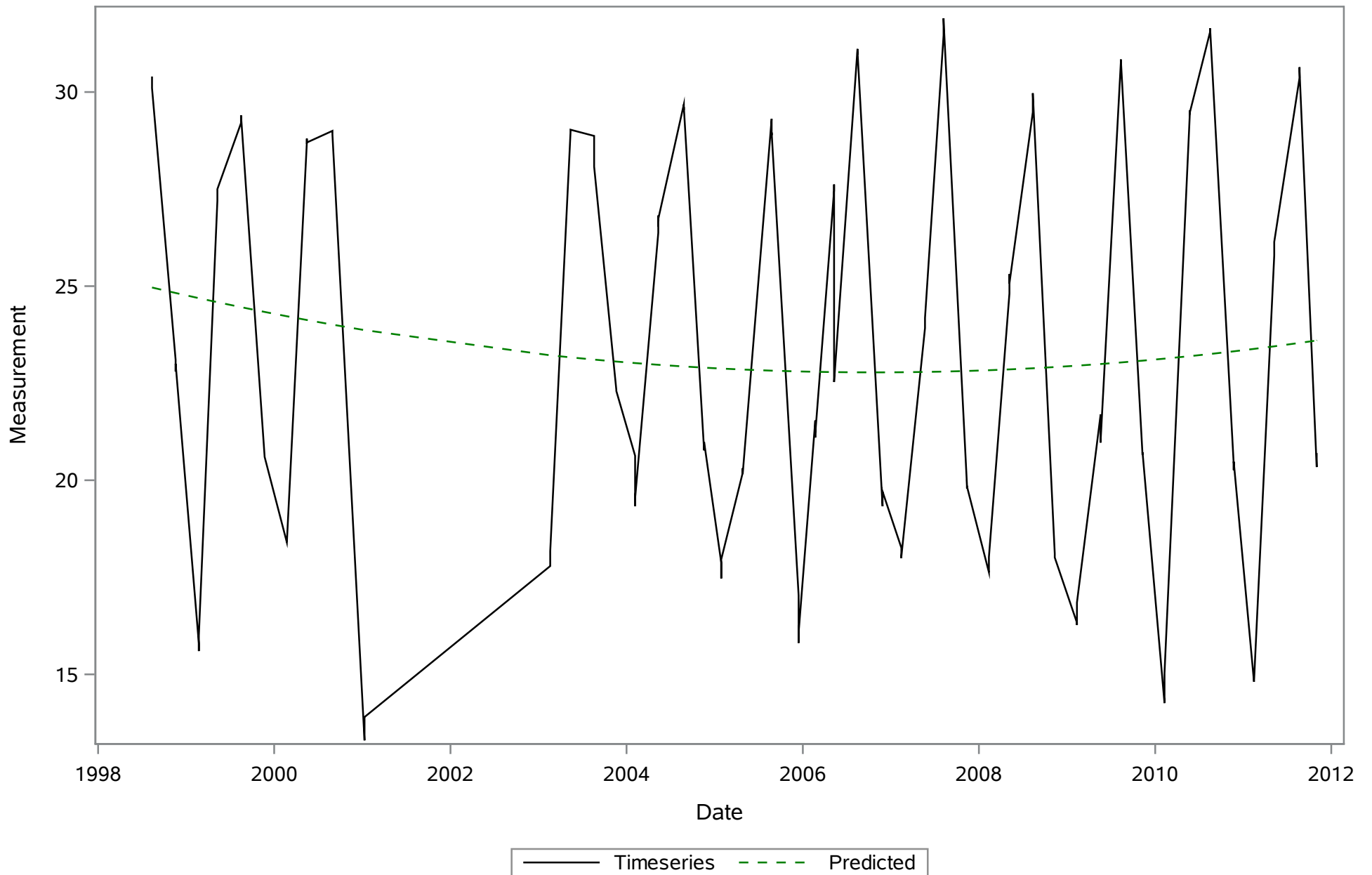
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SPCOND_mS_cm



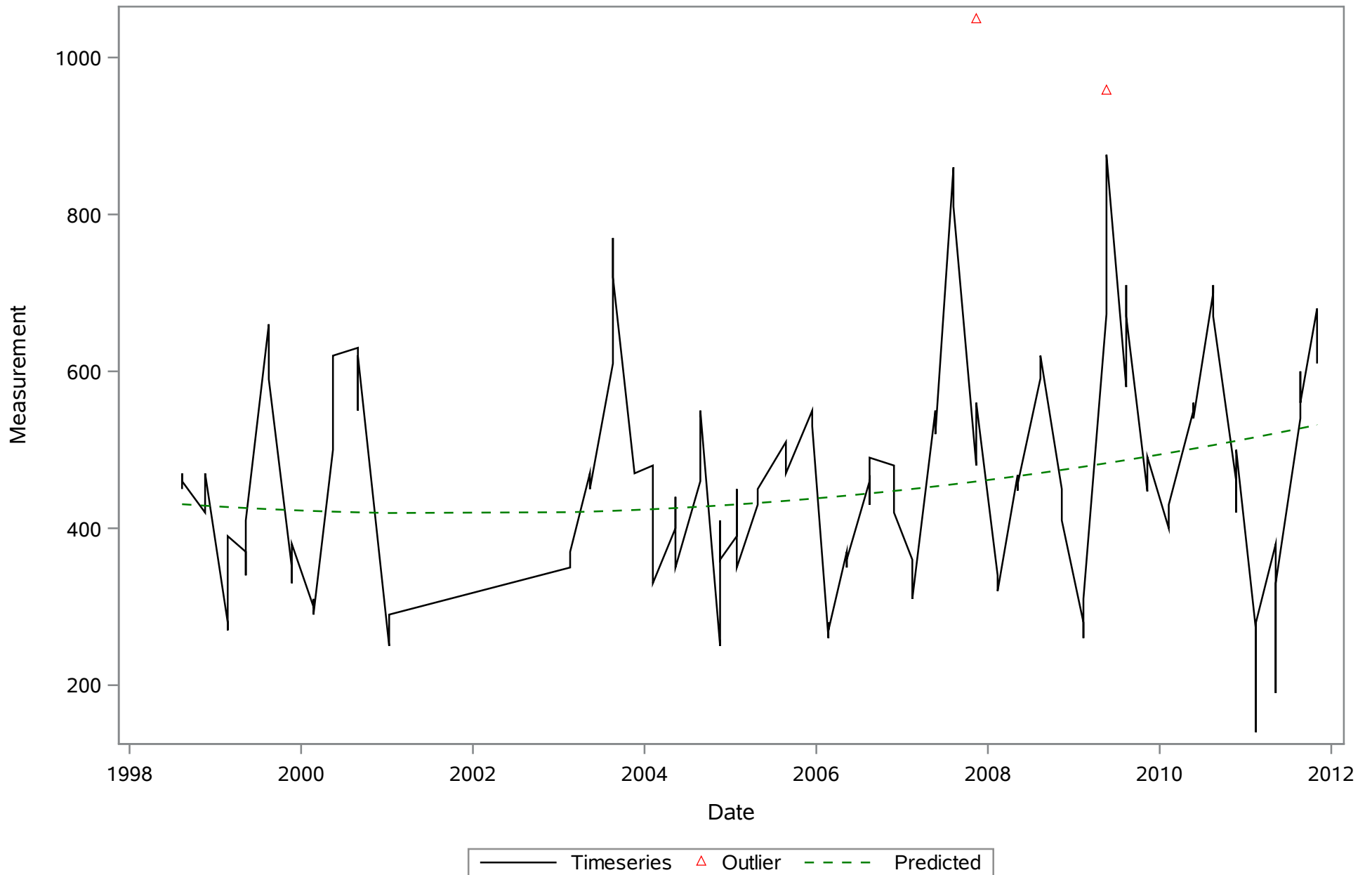
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SRP_ugL



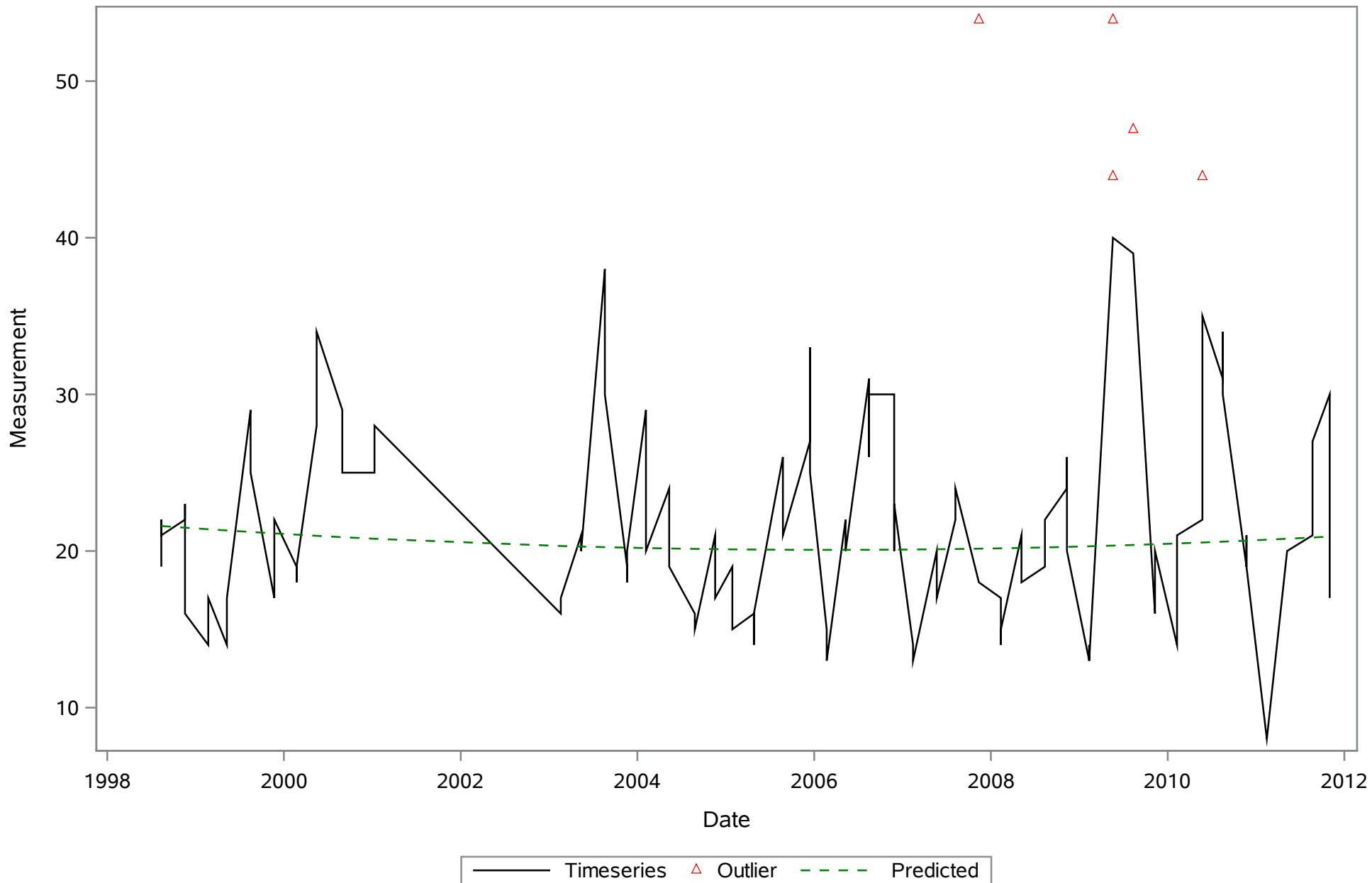
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TEMP_C



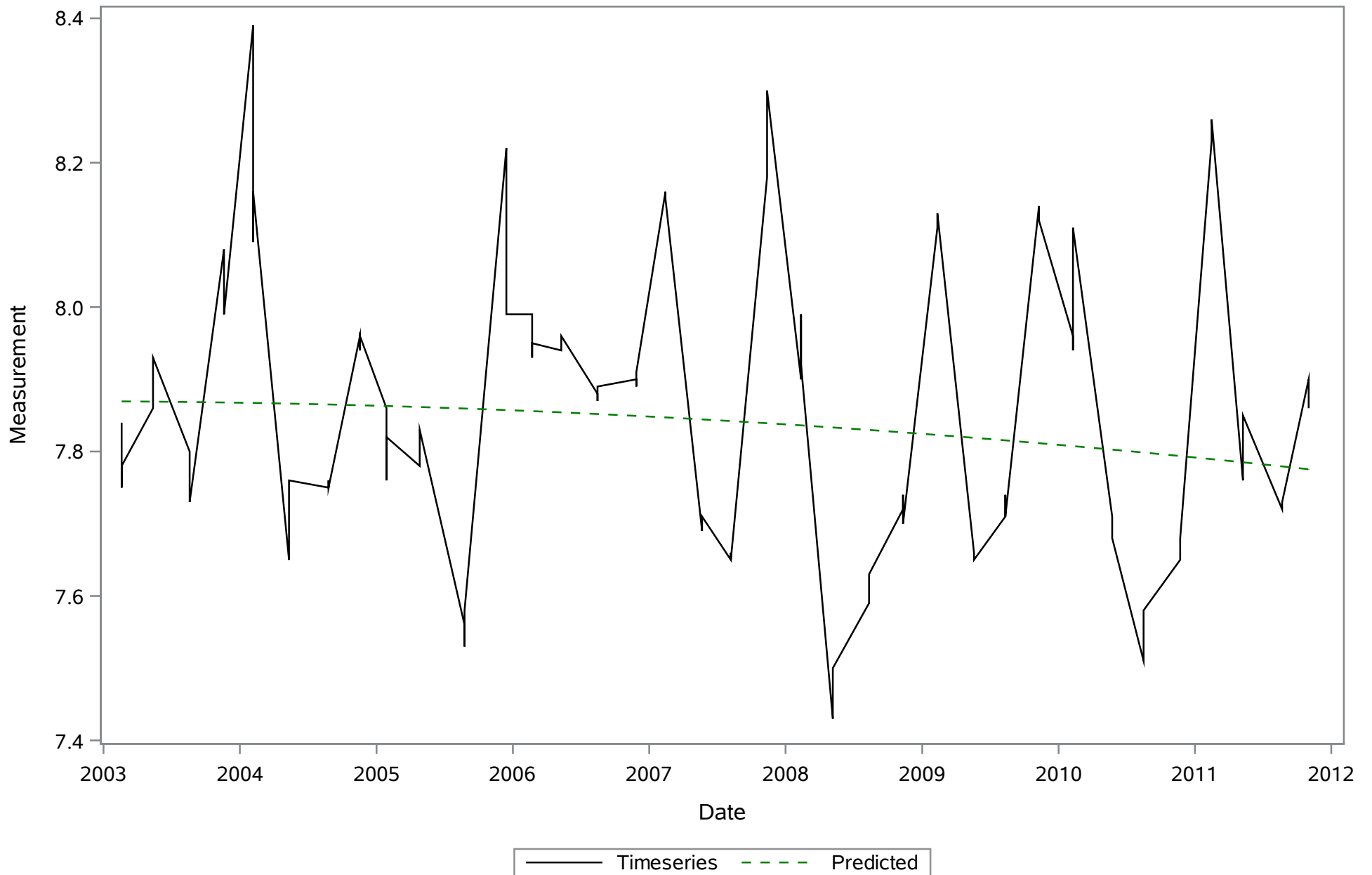
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TP_{ugl}



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Field

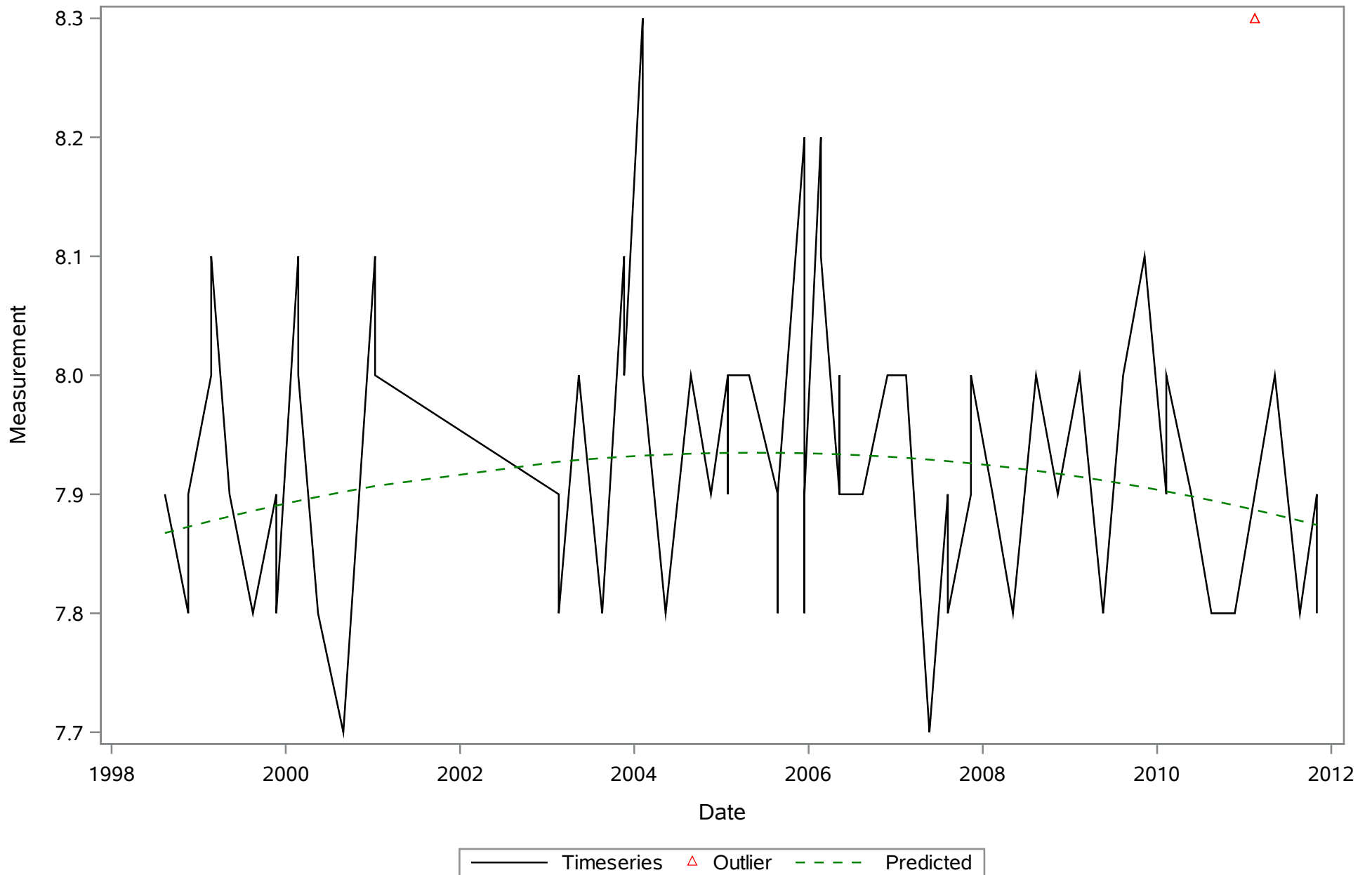


Chassahowitzka River - Fixed Station

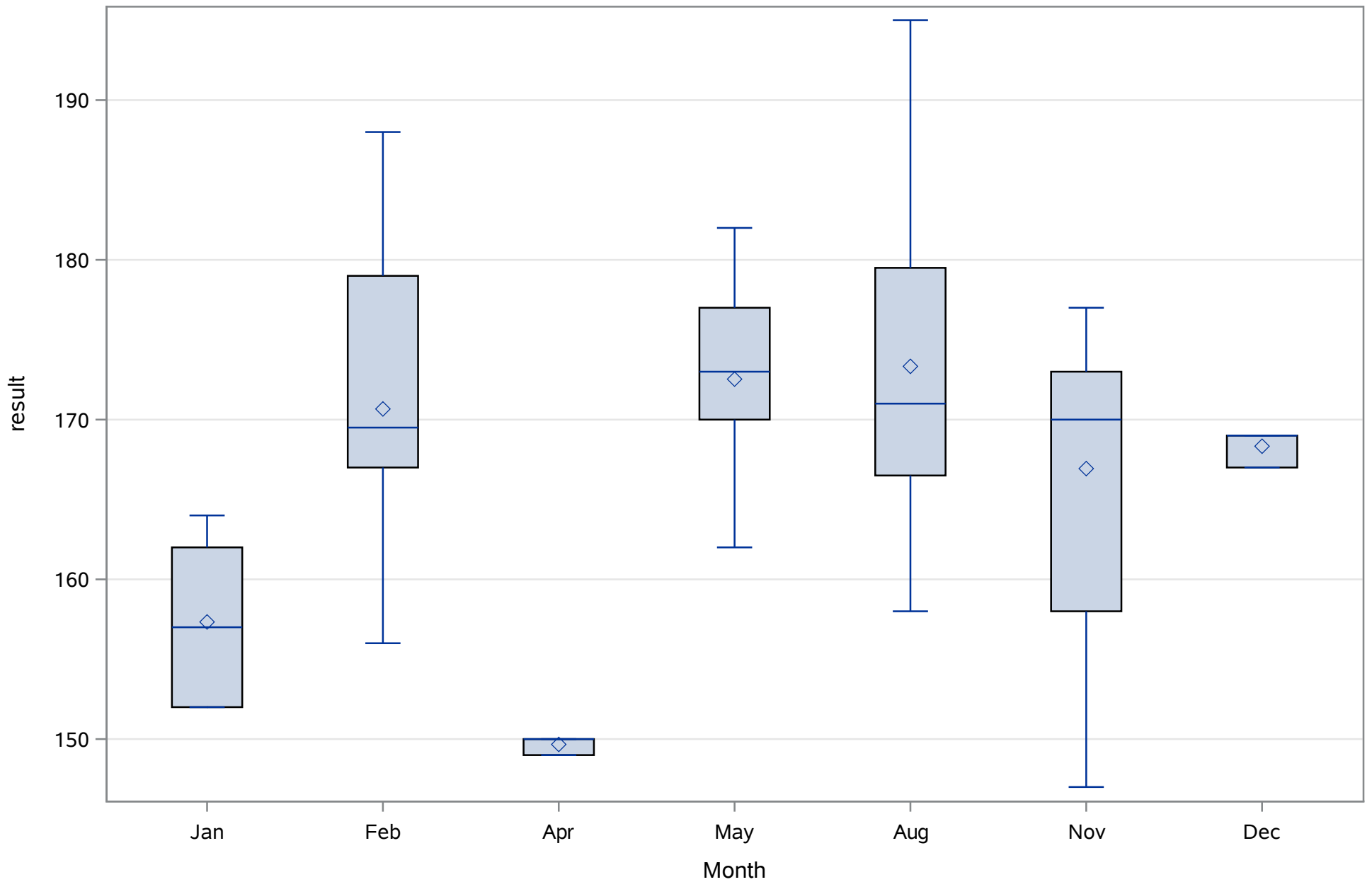
Source: UF 5 Rivers Study

Transect 14

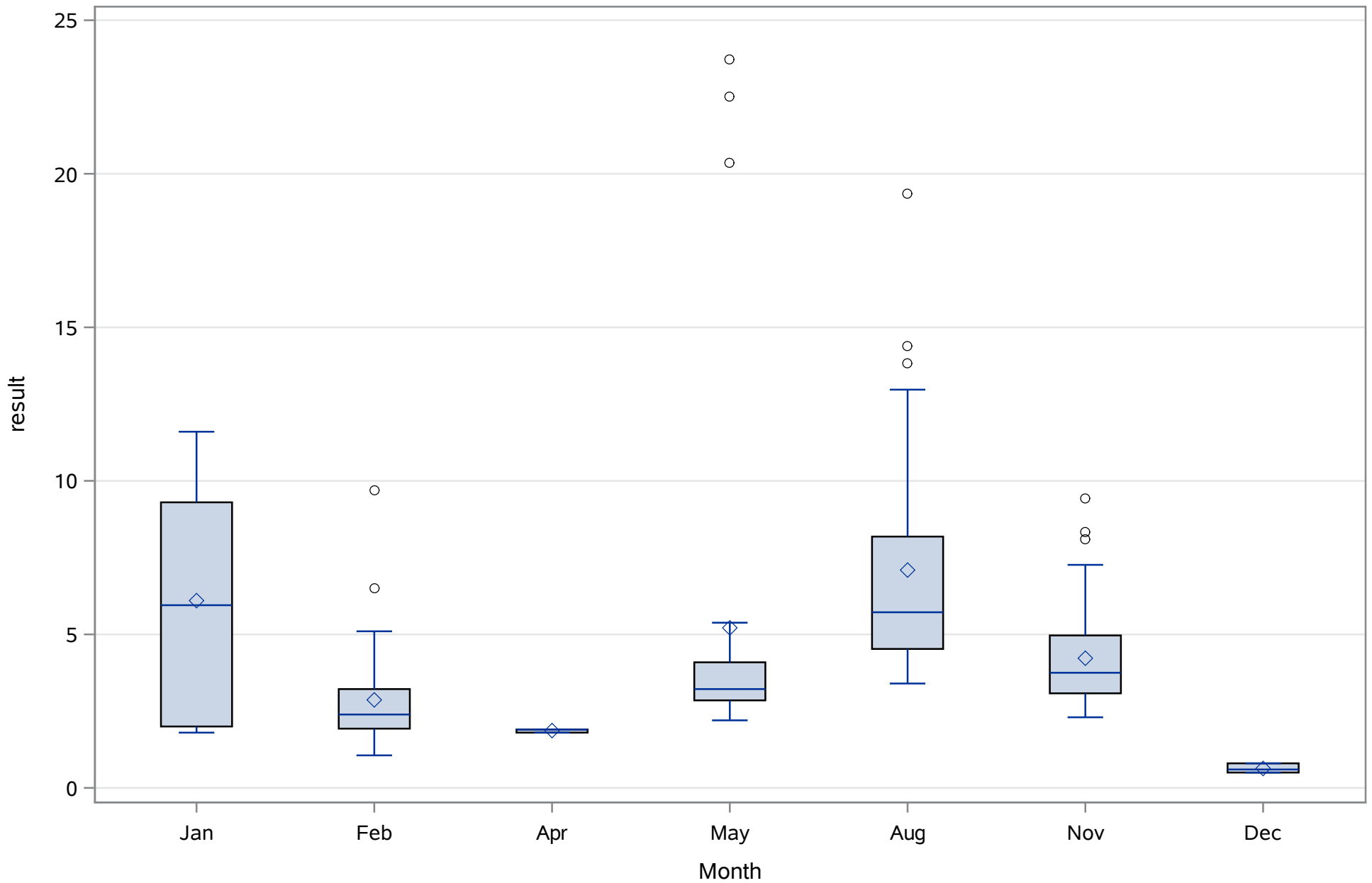
pH_Lab



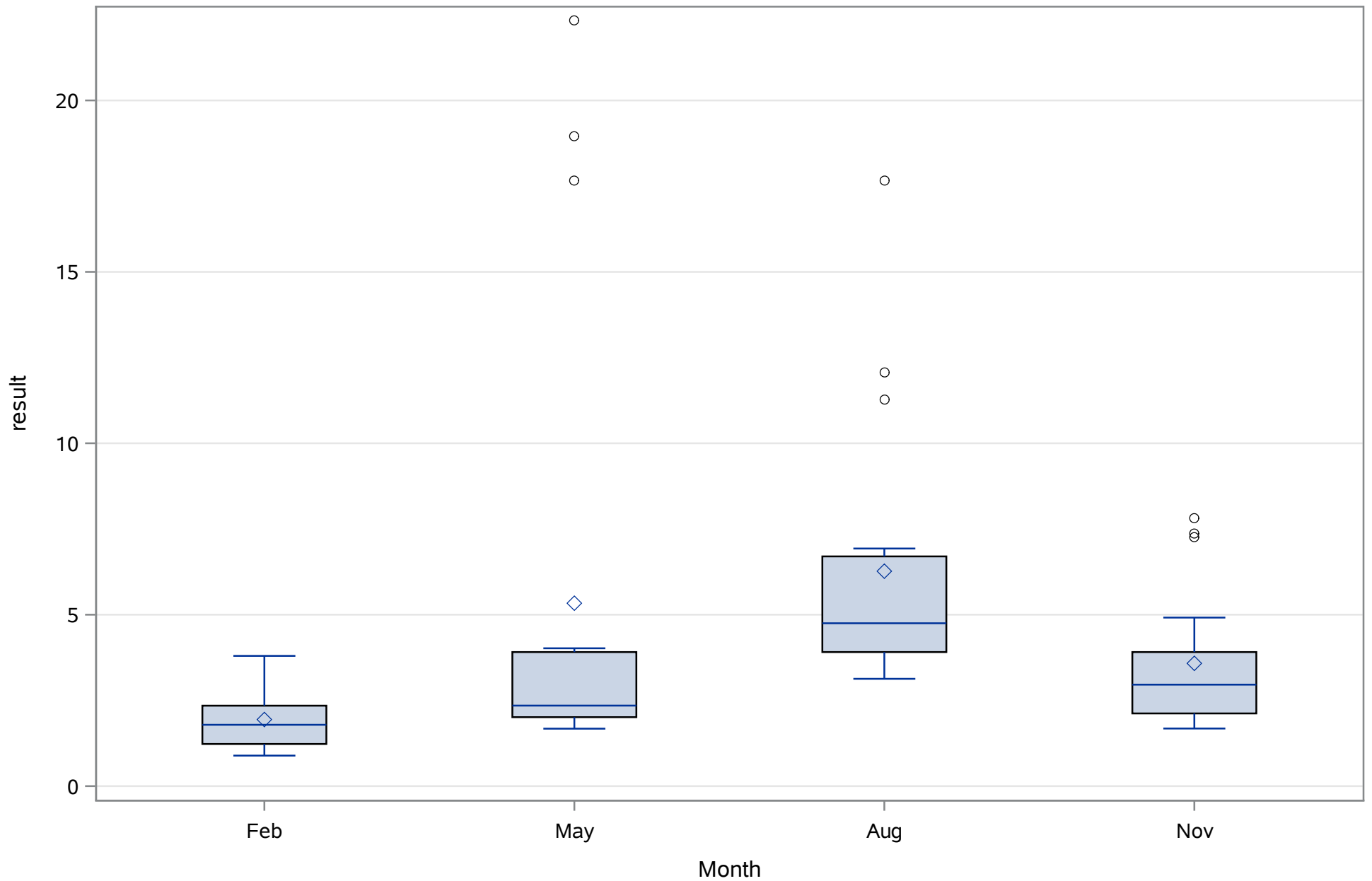
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
ALK_tot_mgL



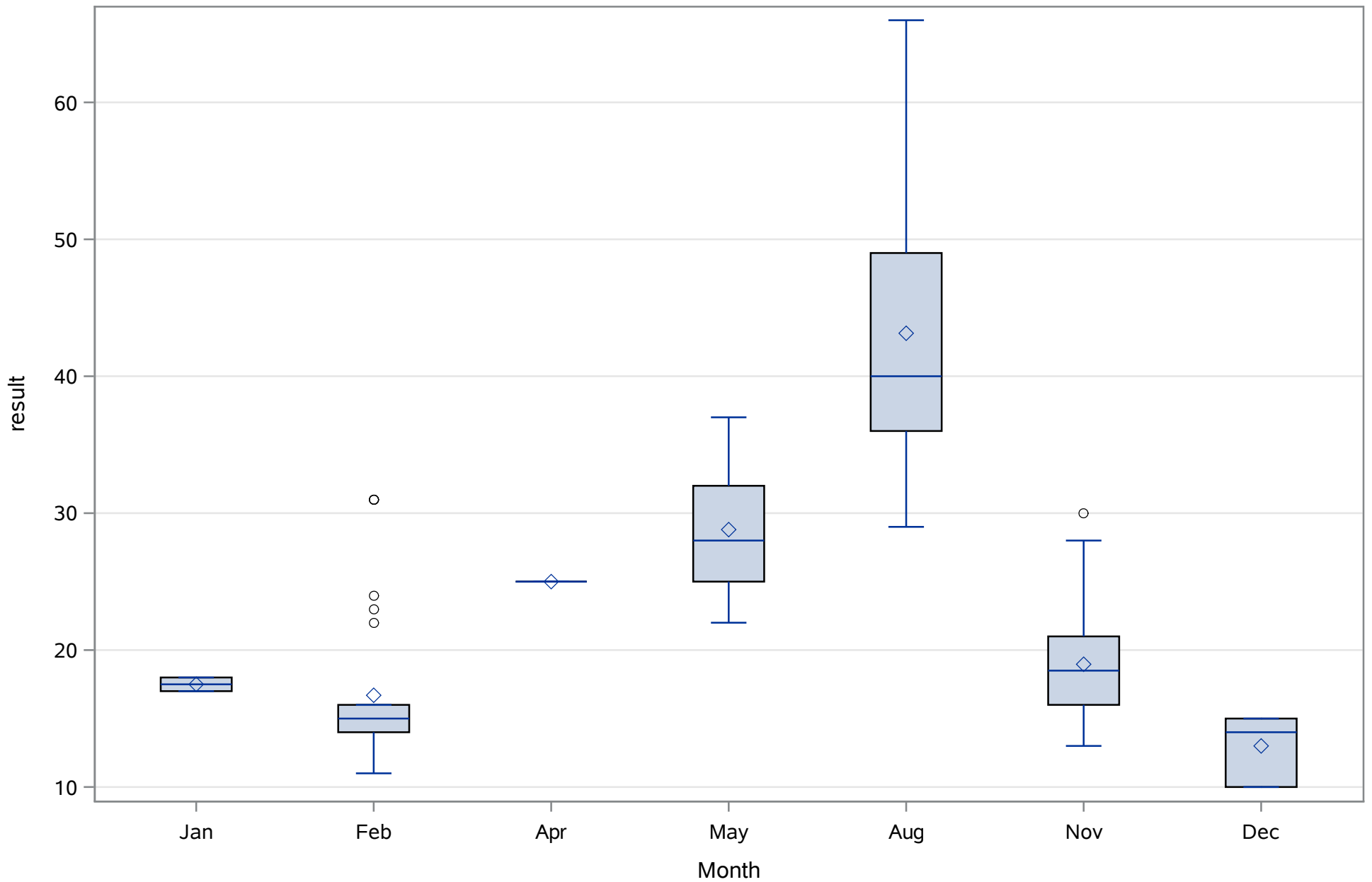
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_Uncor_ugL



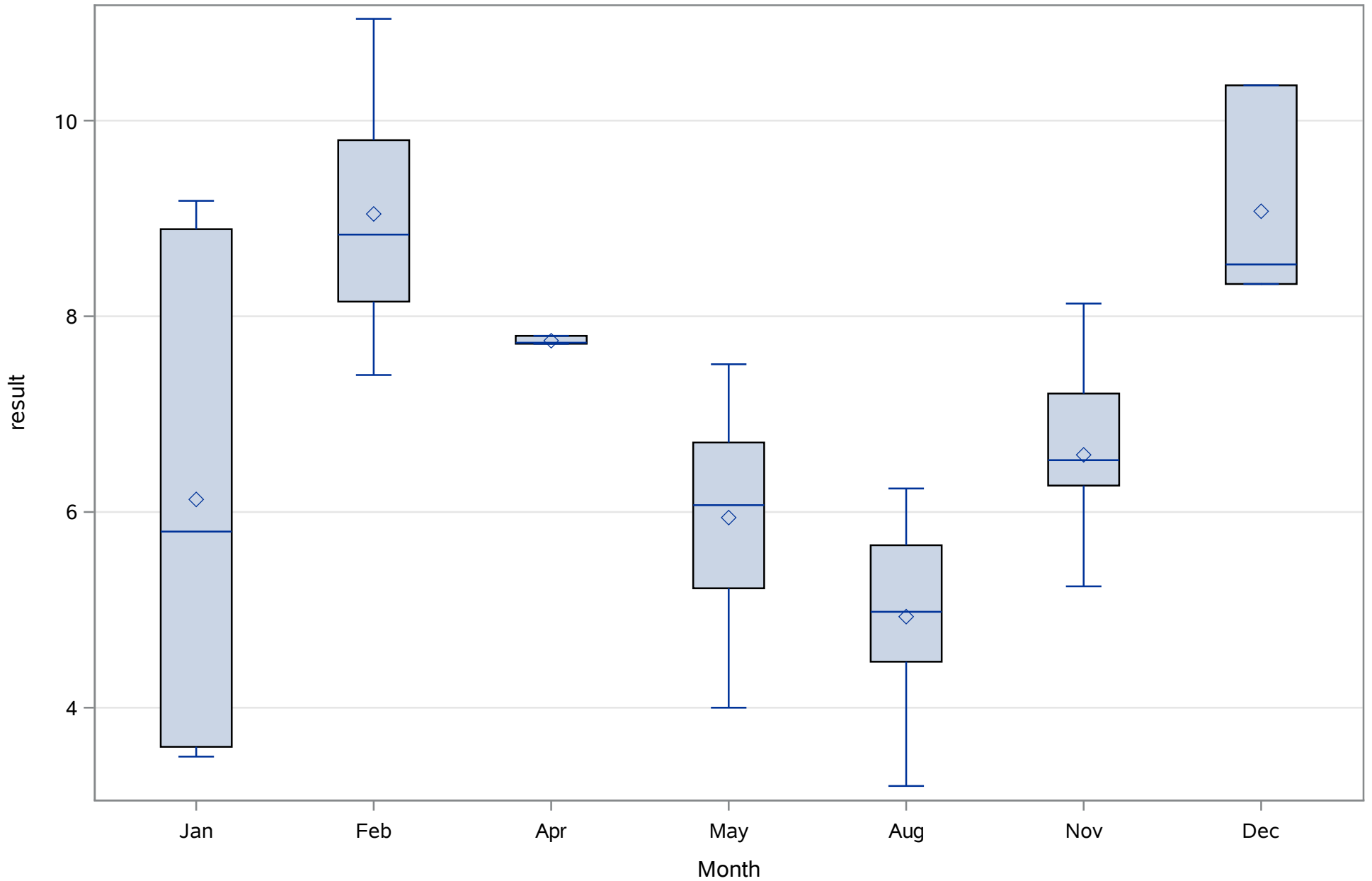
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
CHLA_cor_ugl



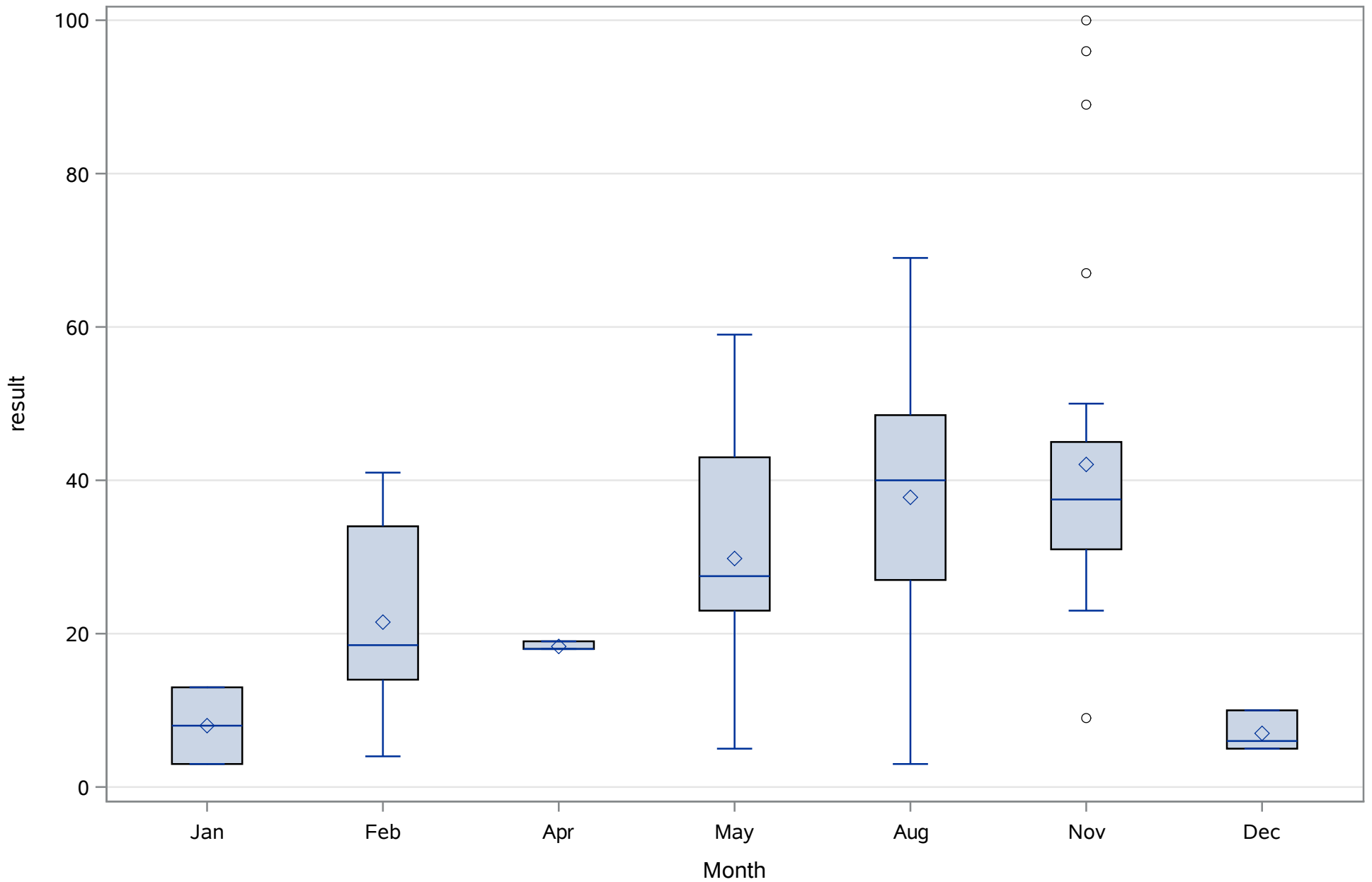
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
COLOR_PtCo



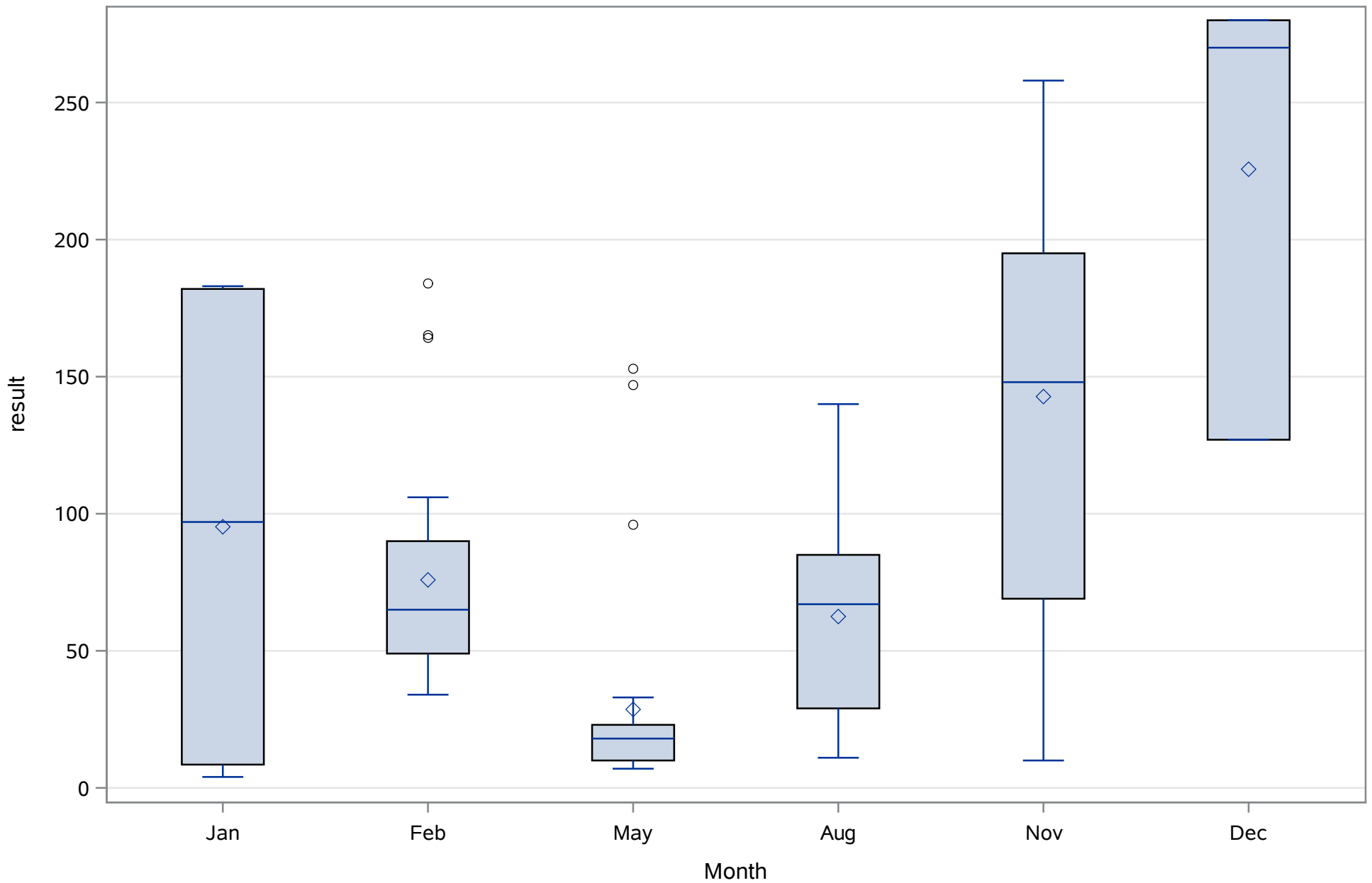
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
DO_mgL



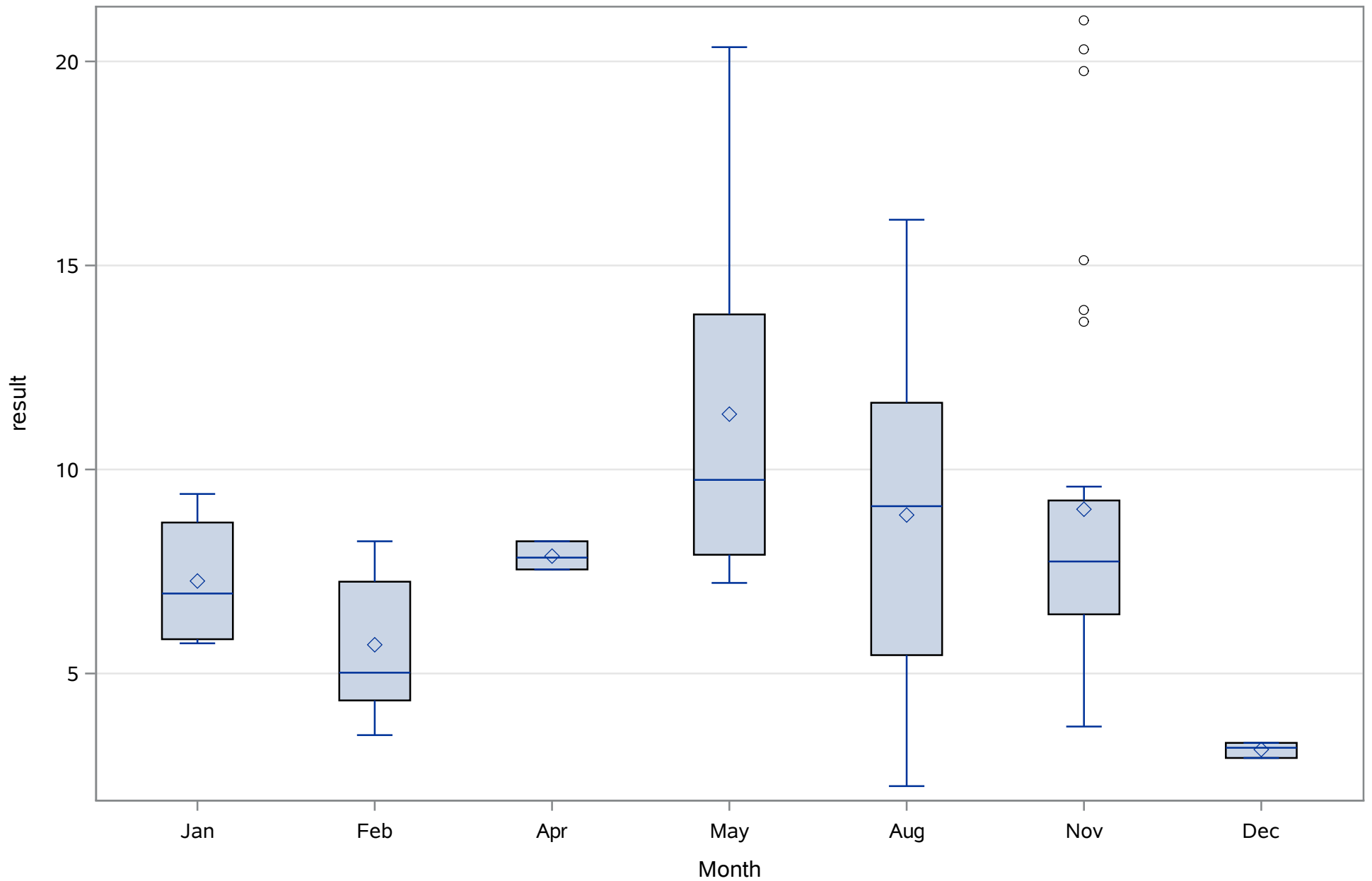
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NH4_ugl



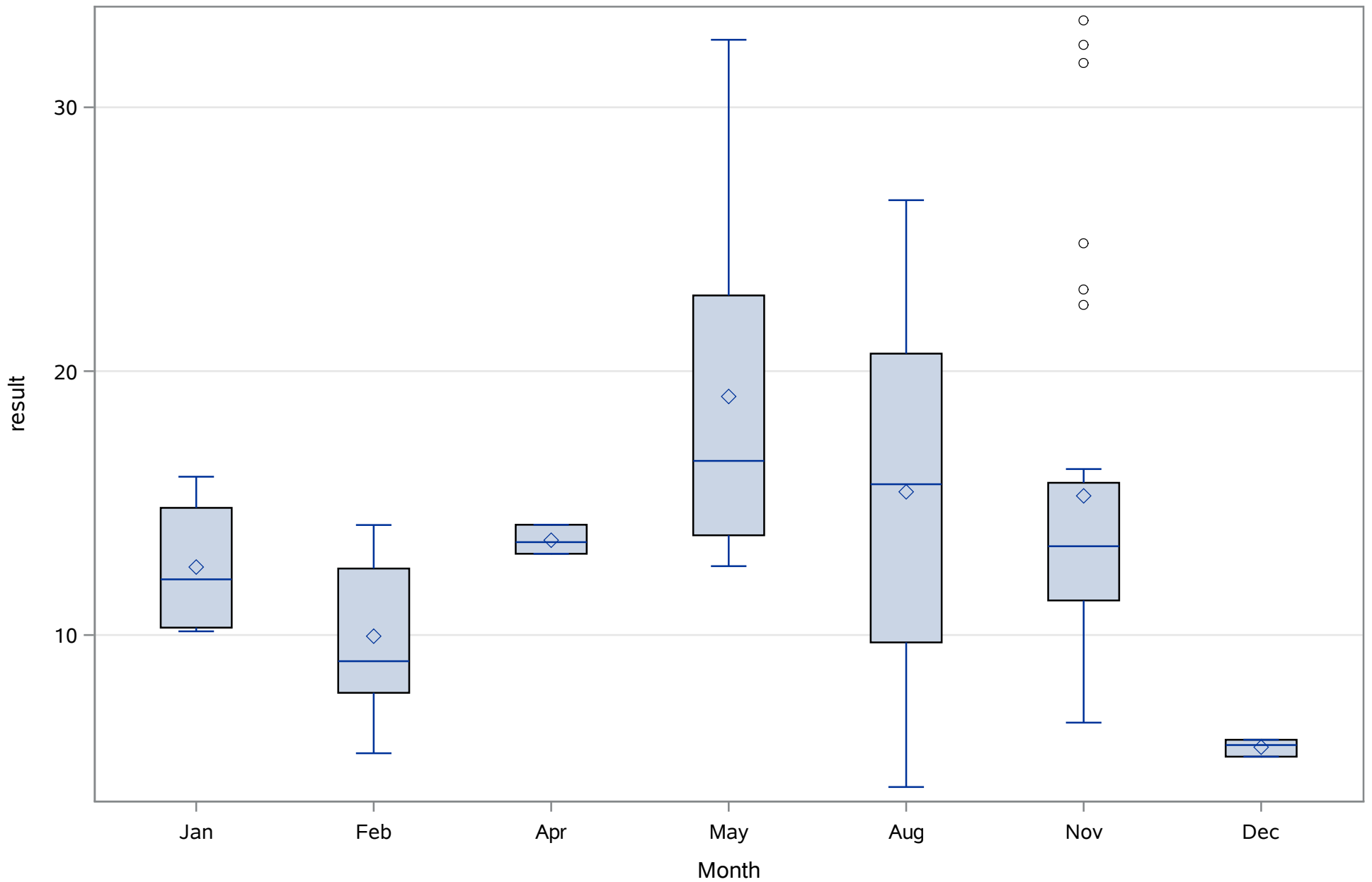
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
NO3_ugL



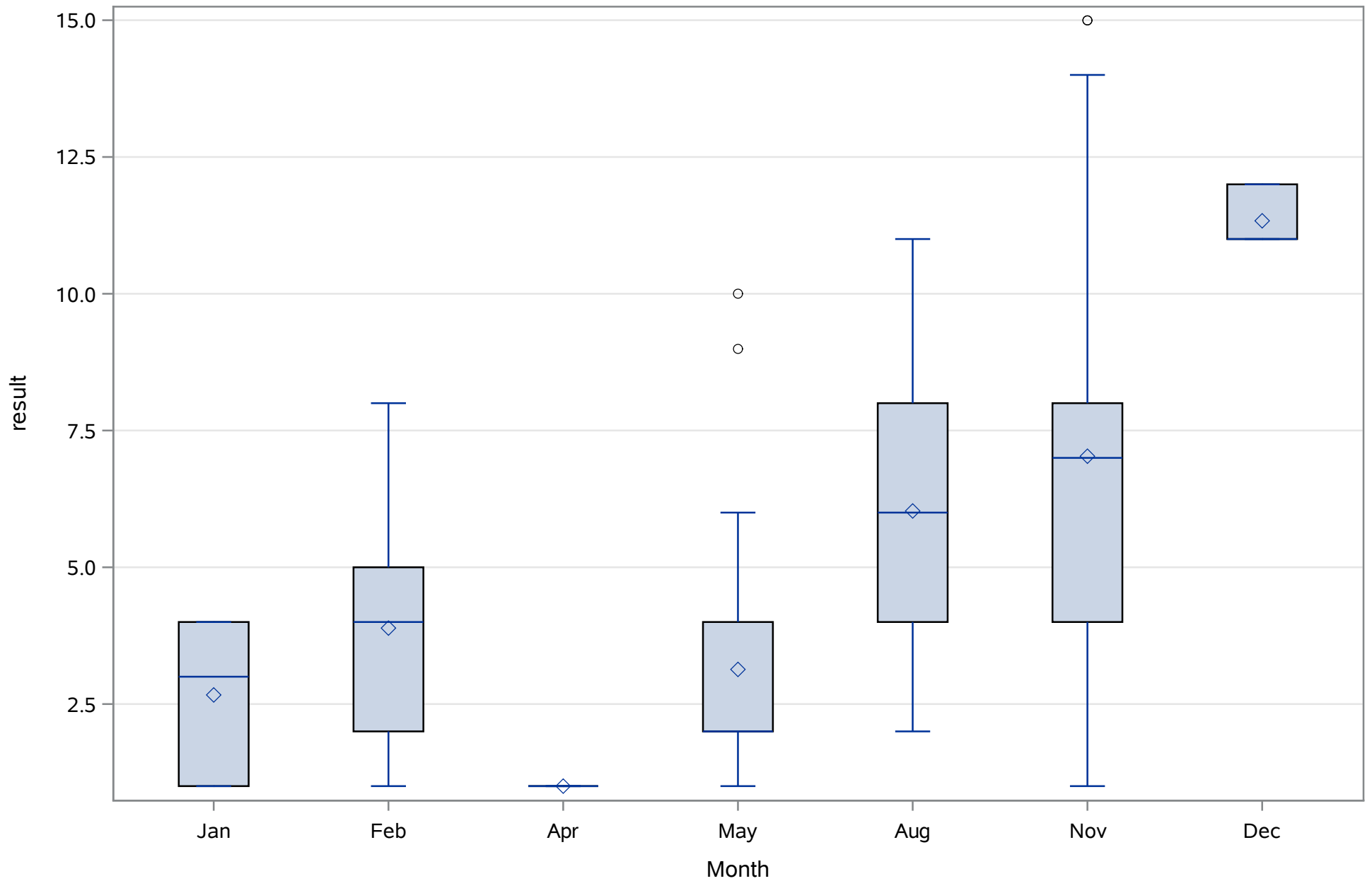
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SAL_Perc



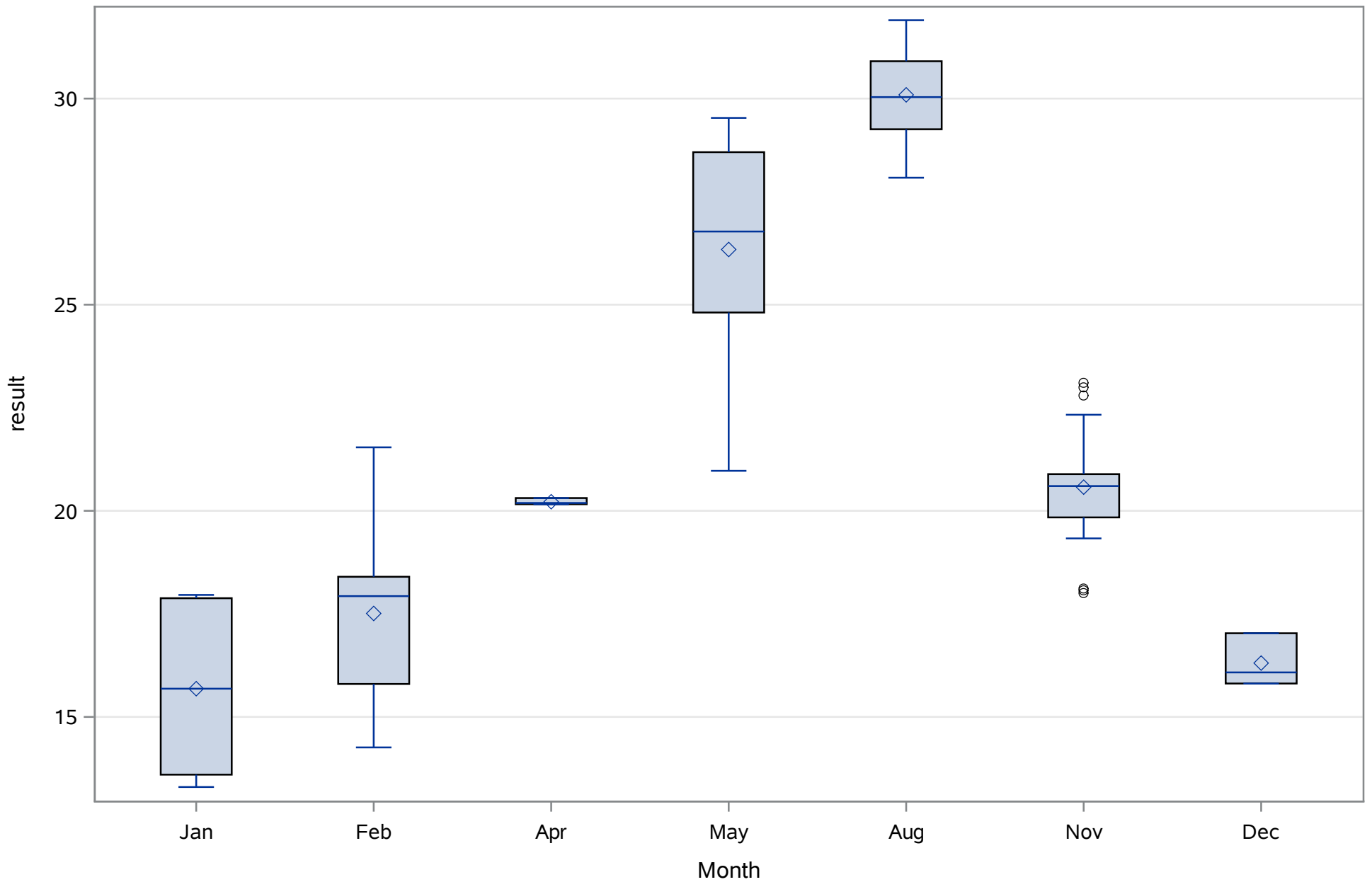
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SPCOND_mS_cm



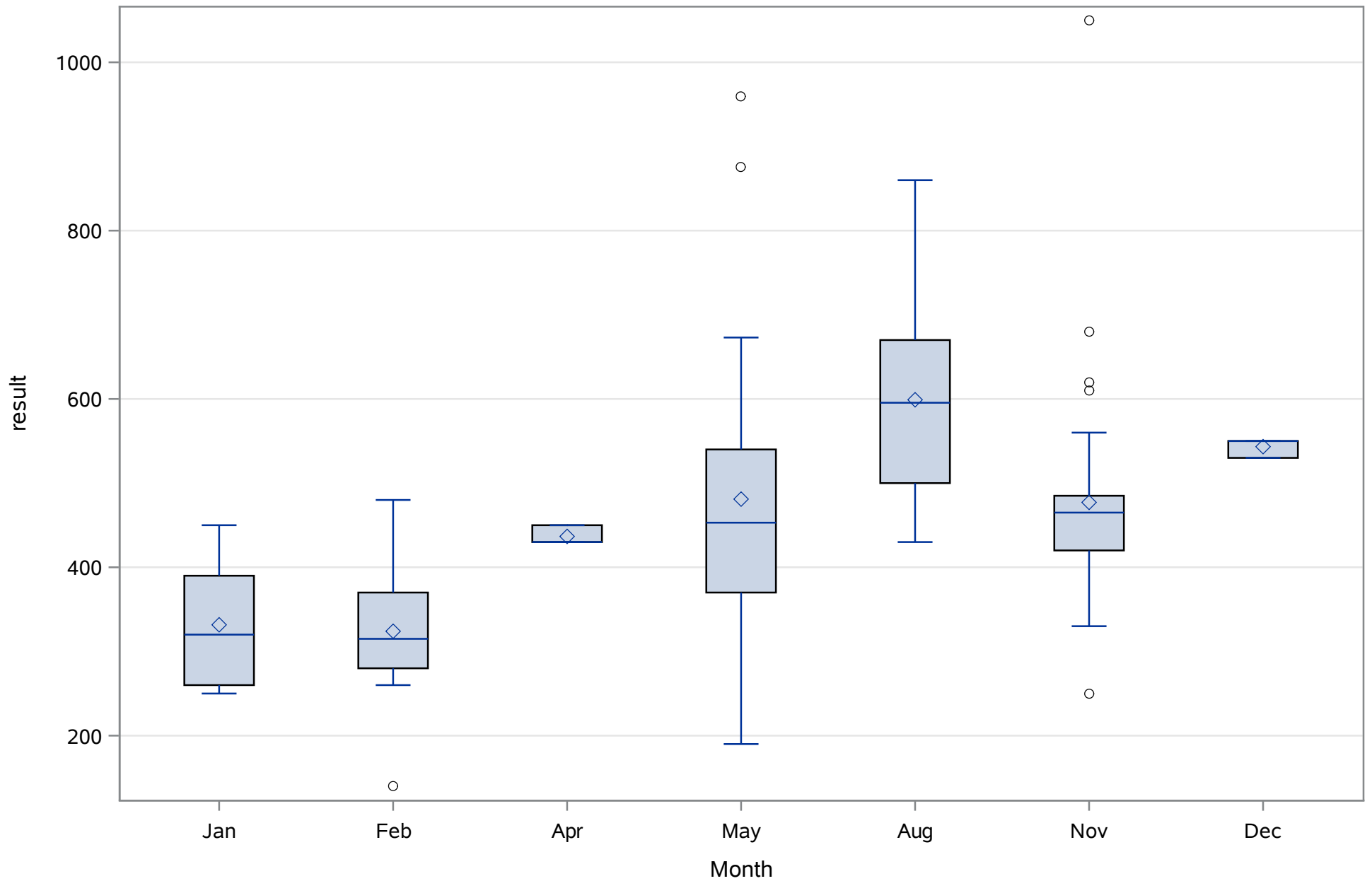
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
SRP_ugL



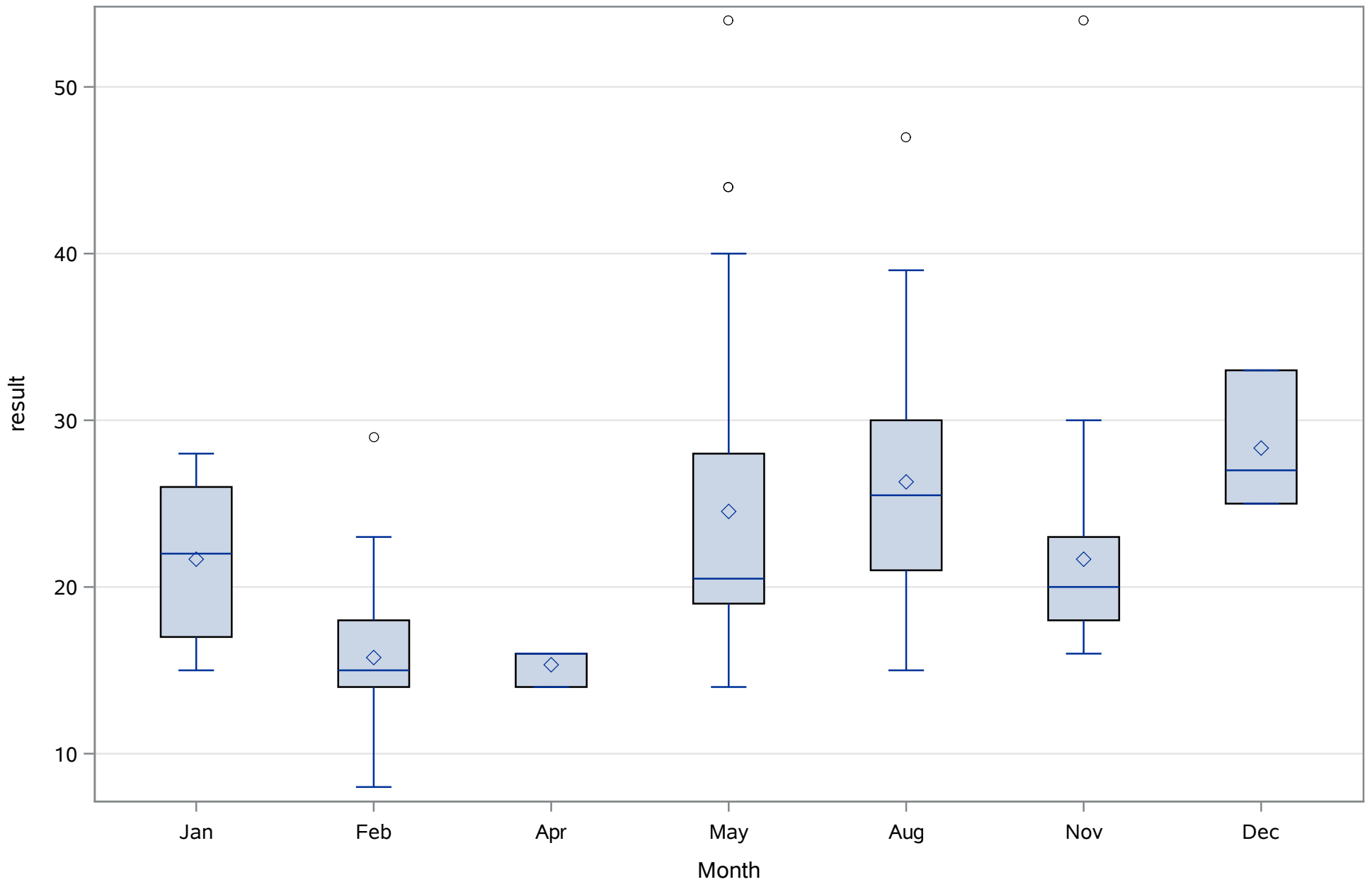
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TEMP_C



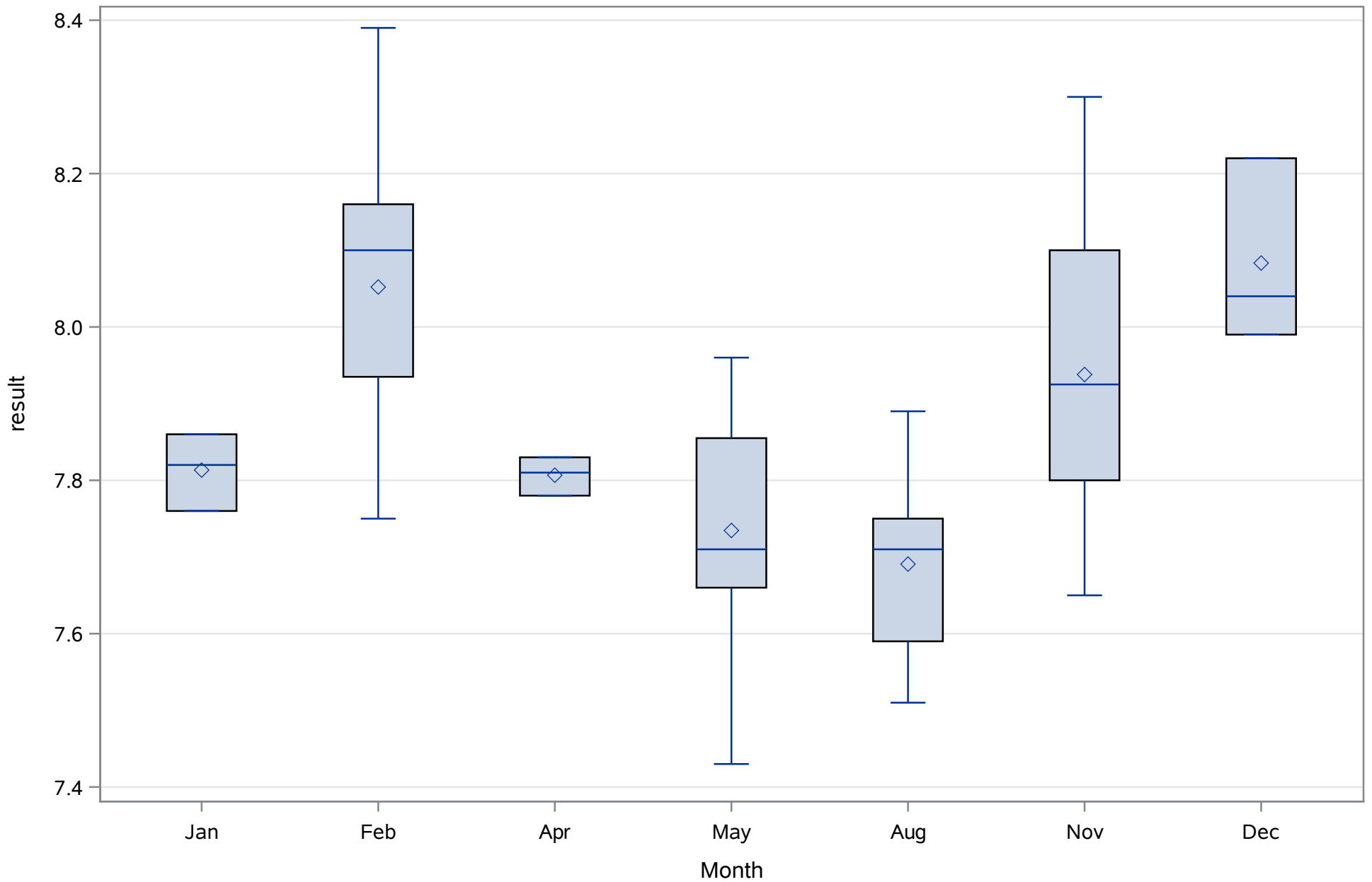
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TN_ugl



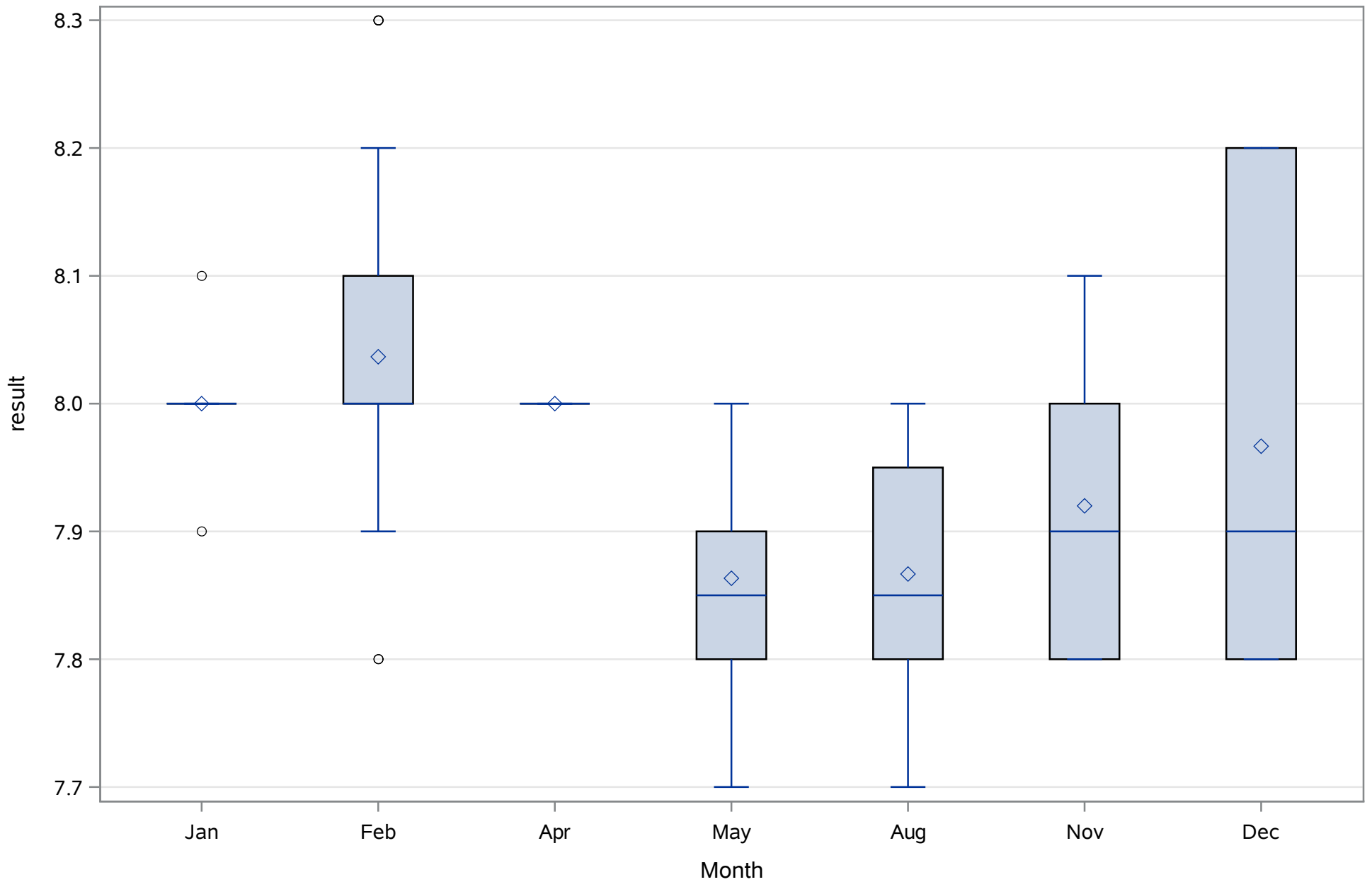
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 14
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	72	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	137	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	134	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	138	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	108	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	138	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	169.434783	Sum Observations	23382
Std Deviation	8.77035195	Variance	76.9190733
Skewness	-0.2592006	Kurtosis	0.52992096
Uncorrected SS	3972262	Corrected SS	10537.913
Coeff Variation	5.17624057	Std Error Mean	0.74658194

Basic Statistical Measures			
Location		Variability	
Mean	169.4348	Std Deviation	8.77035
Median	170.0000	Variance	76.91907
Mode	170.0000	Range	47.00000
		Interquartile Range	11.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	226.9473	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	193
99%	192
95%	182
90%	180
75% Q3	175
50% Median	170
25% Q1	164
10%	158
5%	152
1%	149
0% Min	146

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
ALK_tot_mgL

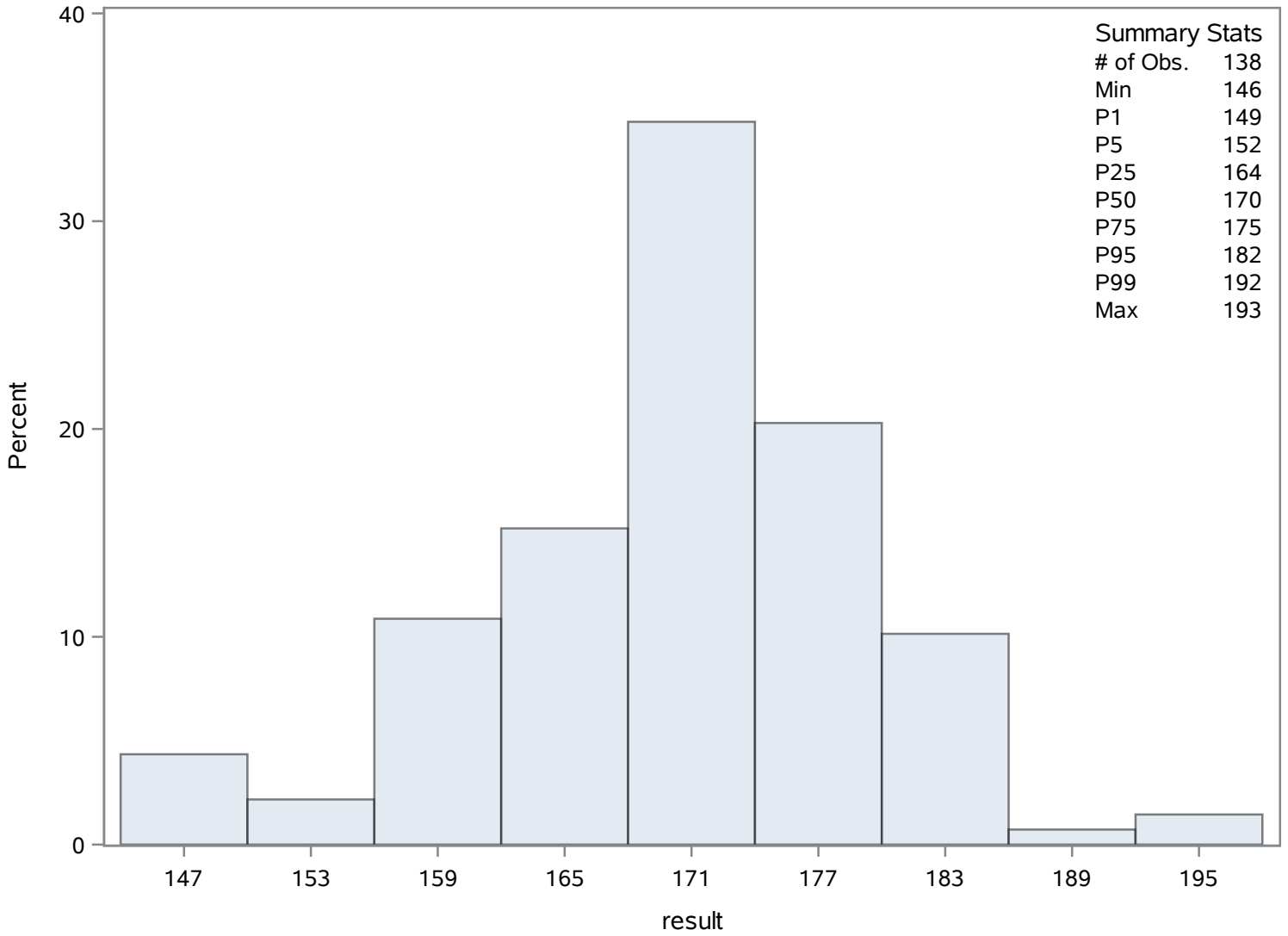
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
146	40	184	127
149	60	185	129
149	59	191	109
149	58	192	110
149	42	193	111

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	4.28661836	Sum Observations	591.553333
Std Deviation	2.68796079	Variance	7.22513319
Skewness	1.55384145	Kurtosis	2.49844832
Uncorrected SS	3525.60662	Corrected SS	989.843246
Coeff Variation	62.7058572	Std Error Mean	0.22881442

Basic Statistical Measures			
Location		Variability	
Mean	4.286618	Std Deviation	2.68796
Median	3.495000	Variance	7.22513
Mode	1.800000	Range	14.26000
		Interquartile Range	2.52874

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	18.73404	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	14.76000
99%	13.38000
95%	10.16000
90%	8.46000
75% Q3	5.10345
50% Median	3.49500
25% Q1	2.57471
10%	1.80000
5%	1.50000
1%	0.60000
0% Min	0.50000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_Uncor_ugL

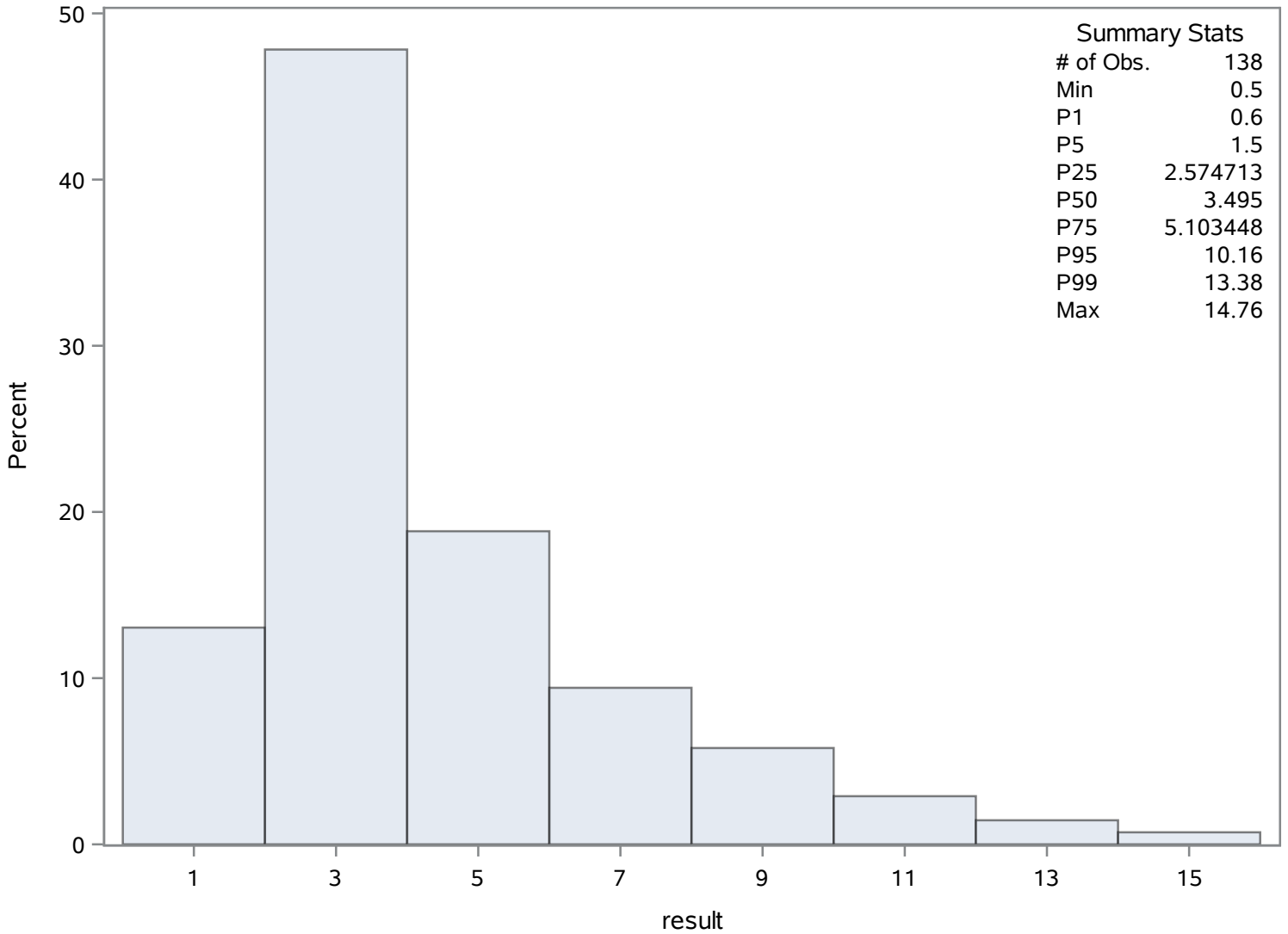
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	204	10.4828	239
0.60	203	11.6000	168
0.60	202	12.9700	246
1.10	267	13.3800	249
1.15	265	14.7600	245

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	72	Sum Weights	72
Mean	3.66629117	Sum Observations	263.972964
Std Deviation	2.61534116	Variance	6.84000941
Skewness	1.80881575	Kurtosis	3.57132567
Uncorrected SS	1453.44241	Corrected SS	485.640668
Coeff Variation	71.3347916	Std Error Mean	0.30822091

Basic Statistical Measures			
Location		Variability	
Mean	3.666291	Std Deviation	2.61534
Median	2.624826	Variance	6.84001
Mode	2.011032	Range	12.85000
		Interquartile Range	2.51500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	11.89501	Pr > t 	<.0001
Sign	M	36	Pr >= M 	<.0001
Signed Rank	S	1314	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13.63000
99%	13.63000
95%	8.38000
90%	7.04000
75% Q3	4.47000
50% Median	2.62483
25% Q1	1.95500
10%	1.56414
5%	1.23000
1%	0.78000
0% Min	0.78000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_cor_ugl

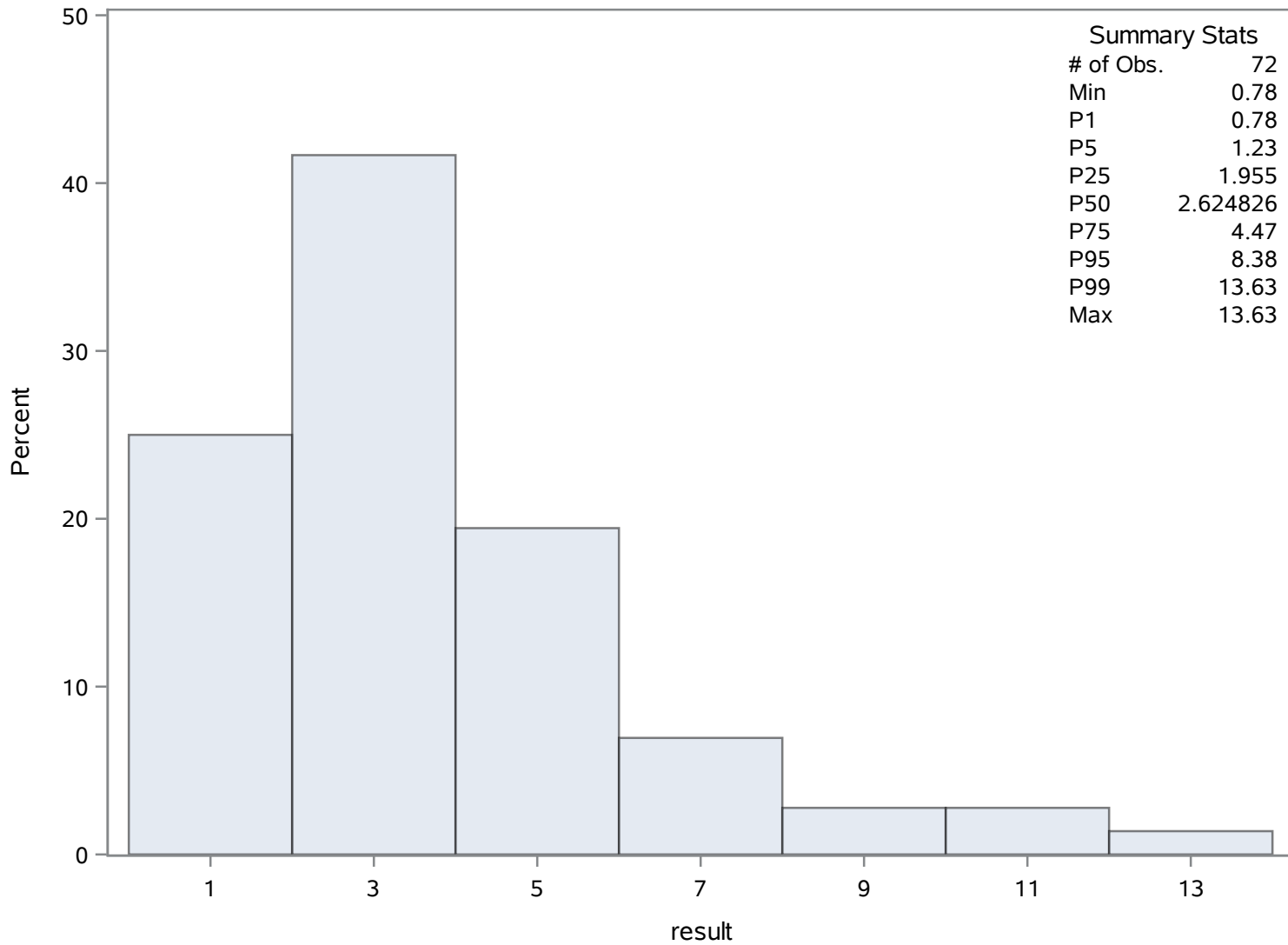
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.78	339	8.27	319
0.89	338	8.38	320
0.89	337	11.62	318
1.23	325	11.73	321
1.34	327	13.63	317

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	26.8043478	Sum Observations	3699
Std Deviation	11.6880741	Variance	136.611076
Skewness	1.11022781	Kurtosis	0.87812589
Uncorrected SS	117865	Corrected SS	18715.7174
Coeff Variation	43.6051426	Std Error Mean	0.99495494

Basic Statistical Measures			
Location		Variability	
Mean	26.80435	Std Deviation	11.68807
Median	24.00000	Variance	136.61108
Mode	15.00000	Range	52.00000
		Interquartile Range	15.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.94026	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	64
99%	61
95%	55
90%	43
75% Q3	32
50% Median	24
25% Q1	17
10%	15
5%	14
1%	13
0% Min	12

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
COLOR_PtCo

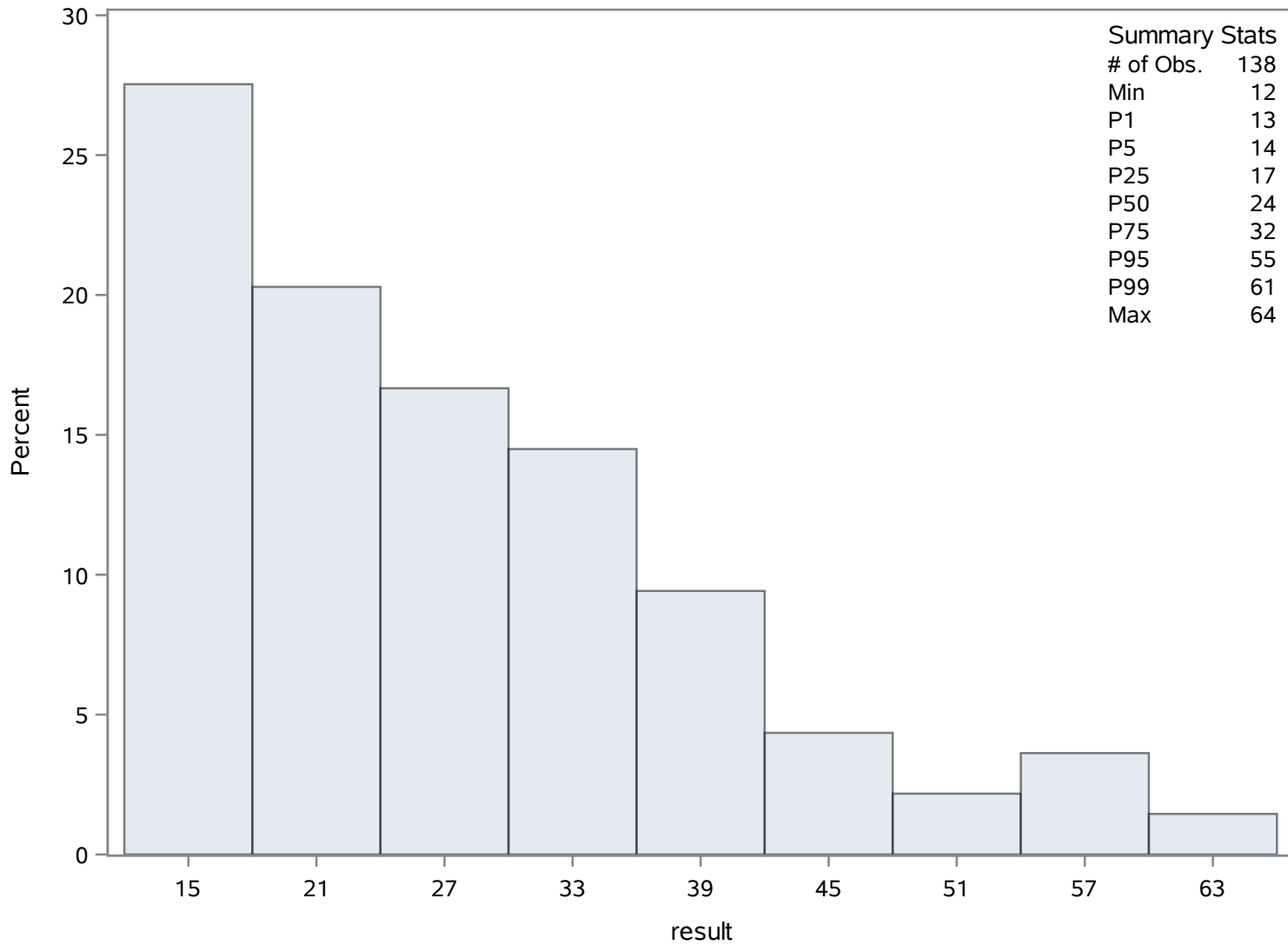
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12	453	57	387
13	451	57	433
14	477	59	434
14	476	61	385
14	452	64	435

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	6.4334058	Sum Observations	887.81
Std Deviation	1.72235897	Variance	2.96652043
Skewness	0.28443531	Kurtosis	-0.5382769
Uncorrected SS	6118.0553	Corrected SS	406.413299
Coeff Variation	26.7721177	Std Error Mean	0.14661693

Basic Statistical Measures			
Location		Variability	
Mean	6.433406	Std Deviation	1.72236
Median	6.285000	Variance	2.96652
Mode	5.200000	Range	7.63000
		Interquartile Range	2.64000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	43.87901	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.730
99%	10.670
95%	9.170
90%	8.910
75% Q3	7.840
50% Median	6.285
25% Q1	5.200
10%	4.240
5%	3.640
1%	3.400
0% Min	3.100

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
DO_mgL

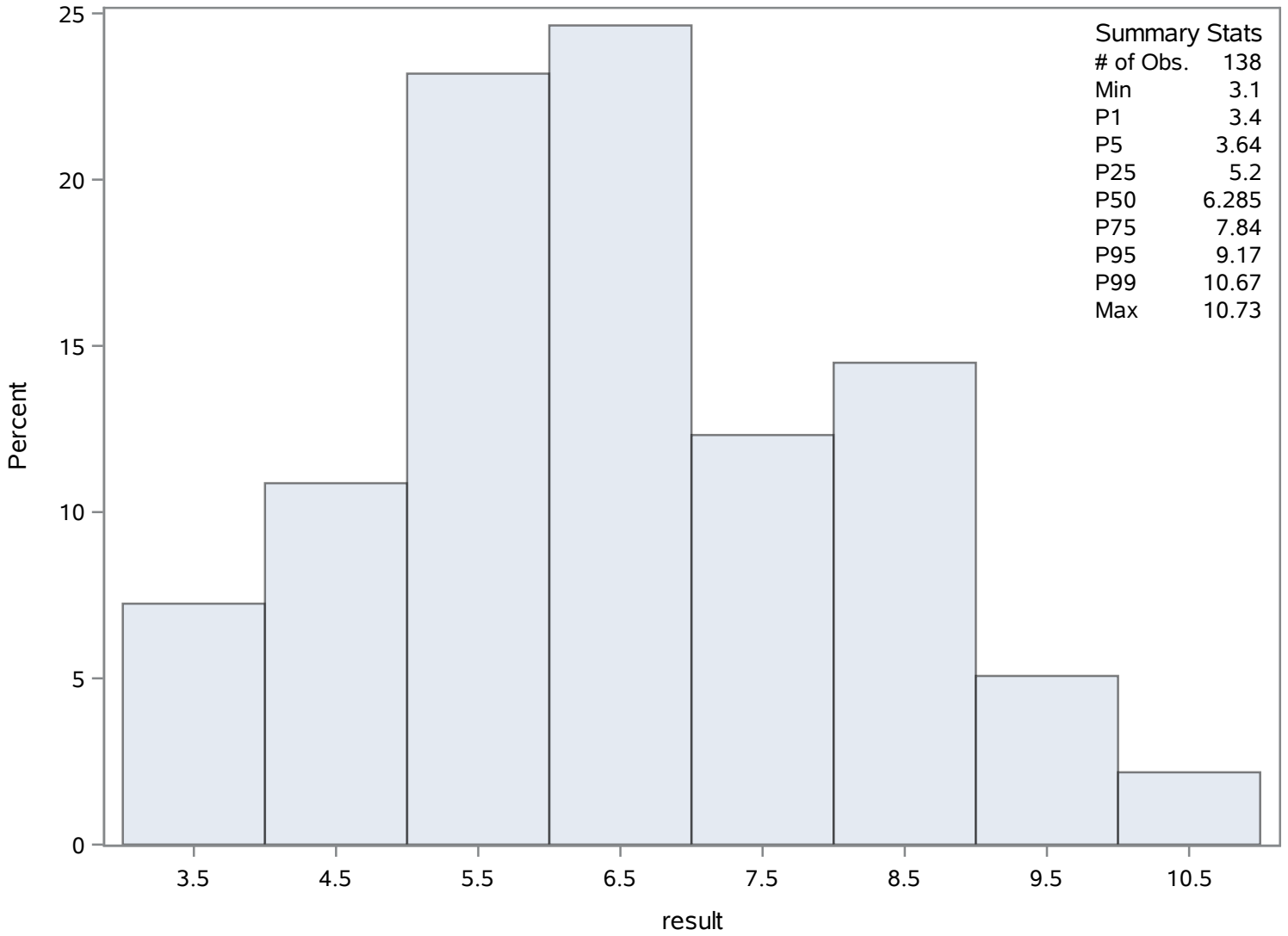
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.1	501	9.39	531
3.4	516	9.50	495
3.4	515	10.60	615
3.4	514	10.67	614
3.4	500	10.73	613

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	34.3050725	Sum Observations	4734.1
Std Deviation	26.0282702	Variance	677.47085
Skewness	3.52134741	Kurtosis	23.4648061
Uncorrected SS	255217.15	Corrected SS	92813.5064
Coeff Variation	75.8729492	Std Error Mean	2.2156735

Basic Statistical Measures			
Location		Variability	
Mean	34.30507	Std Deviation	26.02827
Median	30.50000	Variance	677.47085
Mode	13.00000	Range	230.00000
		Interquartile Range	30.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.48291	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	232.0
99%	101.0
95%	70.0
90%	63.0
75% Q3	47.0
50% Median	30.5
25% Q1	17.0
10%	11.0
5%	5.0
1%	4.0
0% Min	2.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NH4_ugl

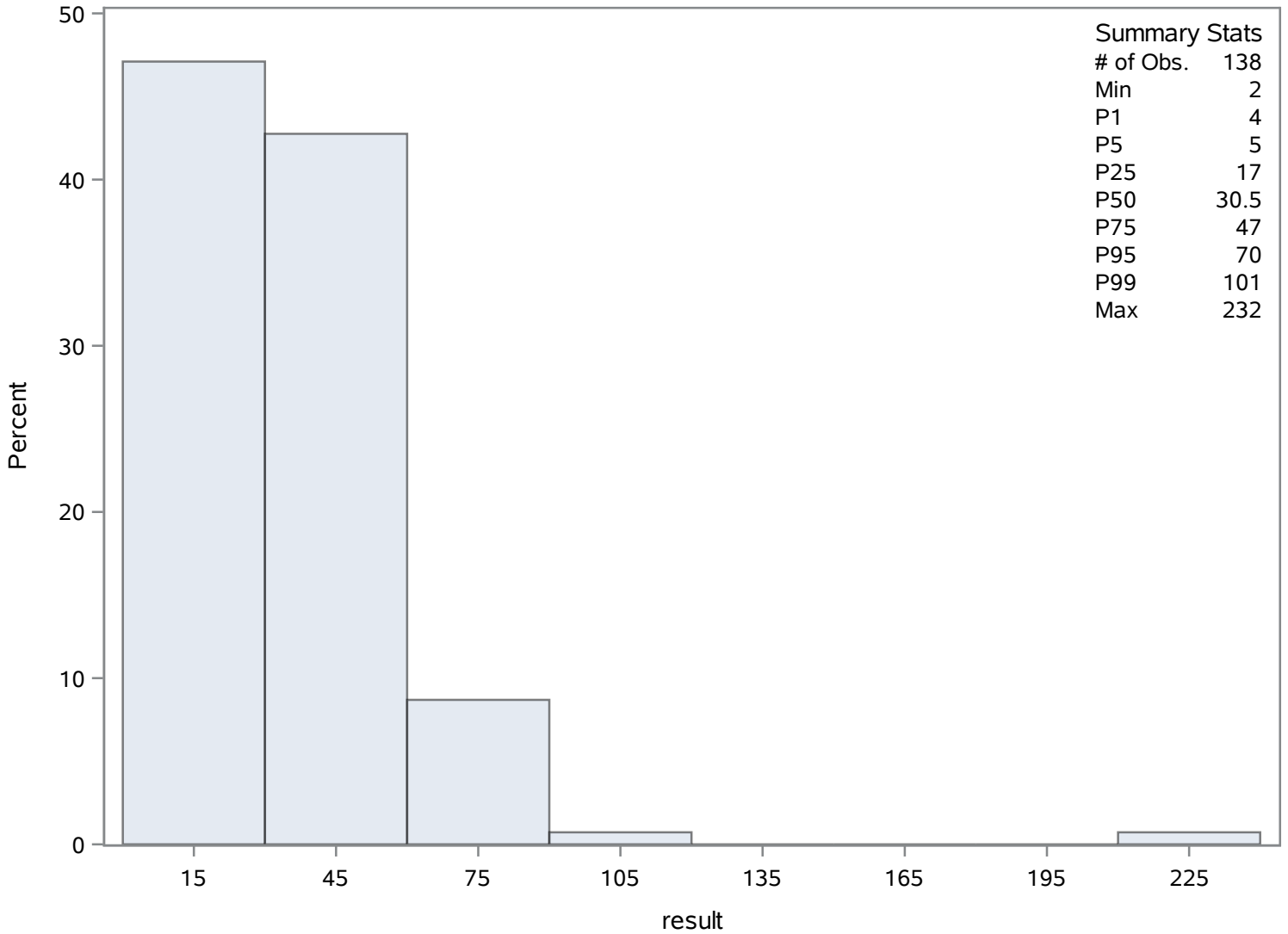
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	669	87	761
4	654	87	762
5	695	88	760
5	668	101	759
5	667	232	696

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	137	Sum Weights	137
Mean	71.6445255	Sum Observations	9815.3
Std Deviation	64.5186965	Variance	4162.66219
Skewness	1.37790884	Kurtosis	1.26555425
Uncorrected SS	1269334.57	Corrected SS	566122.058
Coeff Variation	90.0539099	Std Error Mean	5.51220424

Basic Statistical Measures			
Location		Variability	
Mean	71.64453	Std Deviation	64.51870
Median	50.00000	Variance	4163
Mode	20.00000	Range	256.00000
		Interquartile Range	72.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	12.99744	Pr > t 	<.0001
Sign	M	68.5	Pr >= M 	<.0001
Signed Rank	S	4726.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	261
99%	249
95%	243
90%	161
75% Q3	94
50% Median	50
25% Q1	22
10%	13
5%	9
1%	6
0% Min	5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NO3_ugL

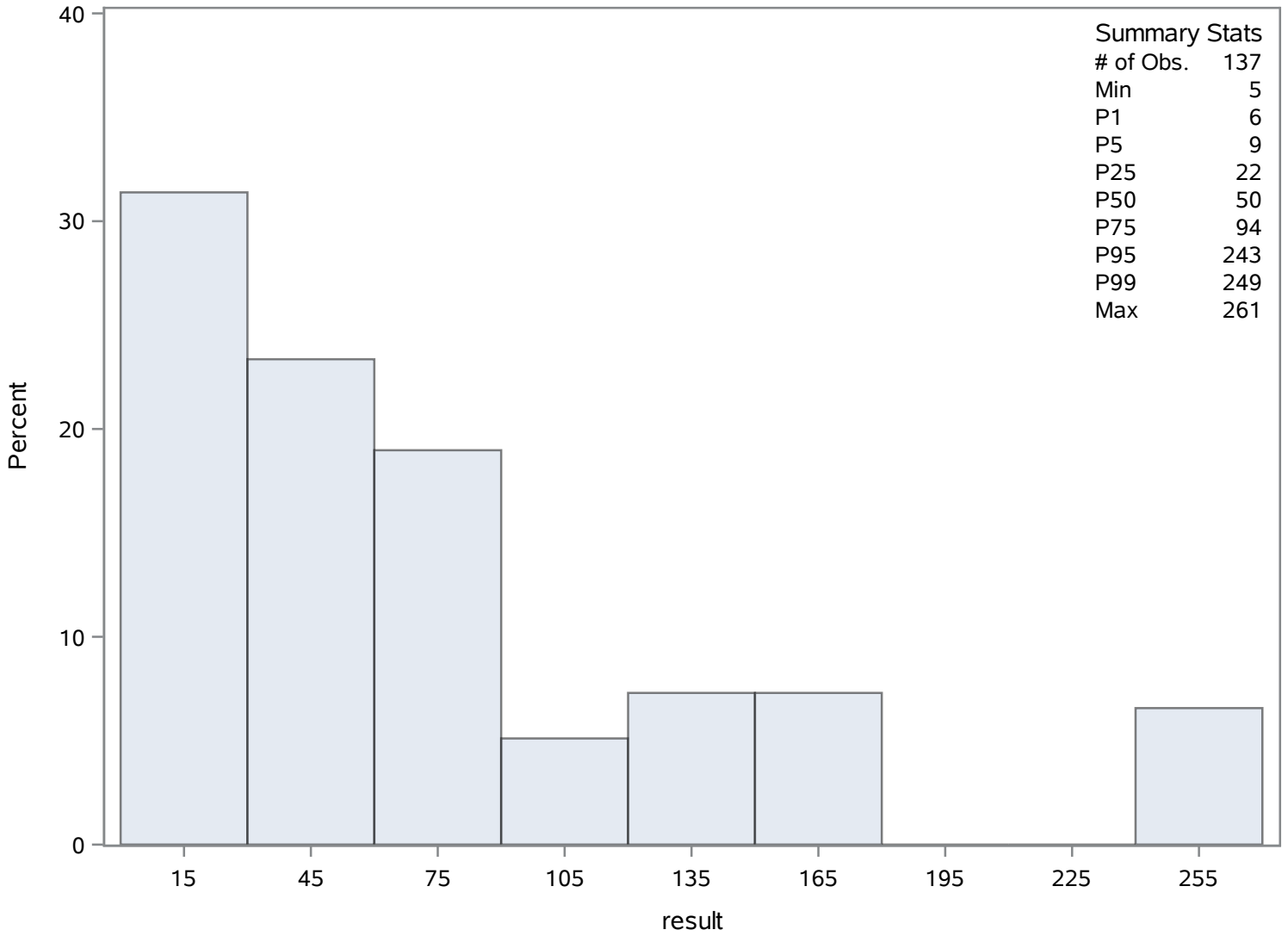
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	774	245	896
6	858	245	899
6	792	249	894
6	772	249	897
7	791	261	819

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	9.24956522	Sum Observations	1276.44
Std Deviation	4.26078038	Variance	18.1542494
Skewness	1.00671026	Kurtosis	0.85899329
Uncorrected SS	14293.6472	Corrected SS	2487.13217
Coeff Variation	46.0646558	Std Error Mean	0.36270171

Basic Statistical Measures			
Location		Variability	
Mean	9.249565	Std Deviation	4.26078
Median	8.755000	Variance	18.15425
Mode	8.910000	Range	18.71000
		Interquartile Range	4.45000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.50185	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21.090
99%	21.000
95%	18.500
90%	15.400
75% Q3	10.620
50% Median	8.755
25% Q1	6.170
10%	4.300
5%	4.020
1%	2.710
0% Min	2.380

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SAL_Perc

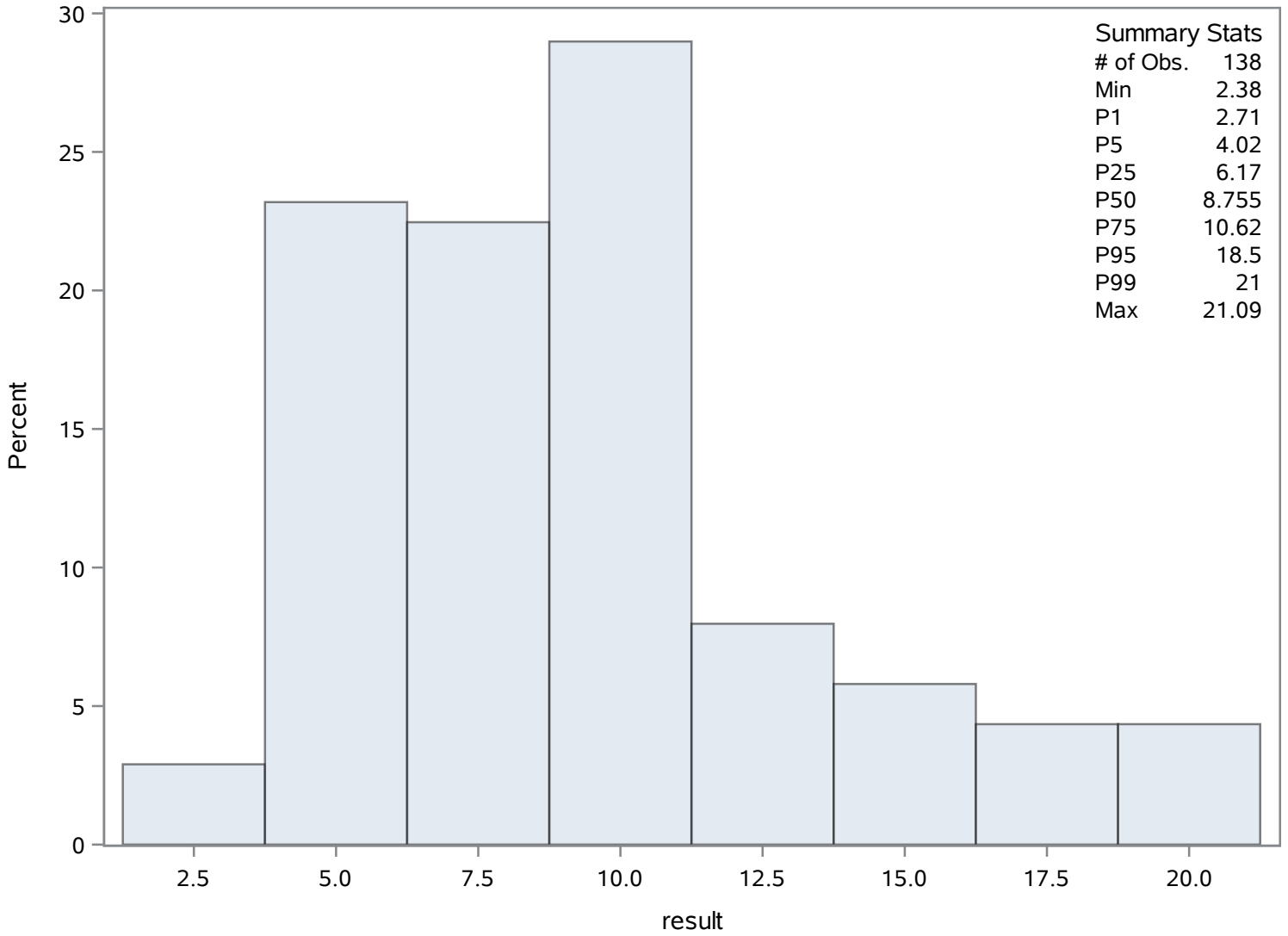
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.38	938	20.86	981
2.71	937	20.96	1011
2.85	936	20.97	1013
3.54	963	21.00	982
3.99	965	21.09	1012

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	15.7443043	Sum Observations	2172.714
Std Deviation	6.74800375	Variance	45.5355546
Skewness	0.84775614	Kurtosis	0.45517449
Uncorrected SS	40446.2415	Corrected SS	6238.37098
Coeff Variation	42.8599676	Std Error Mean	0.57442823

Basic Statistical Measures			
Location		Variability	
Mean	15.74430	Std Deviation	6.74800
Median	14.99500	Variance	45.53555
Mode	9.21000	Range	29.13000
		Interquartile Range	7.09000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	27.40865	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	33.640
99%	33.500
95%	29.990
90%	25.320
75% Q3	17.880
50% Median	14.995
25% Q1	10.790
10%	7.700
5%	6.430

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

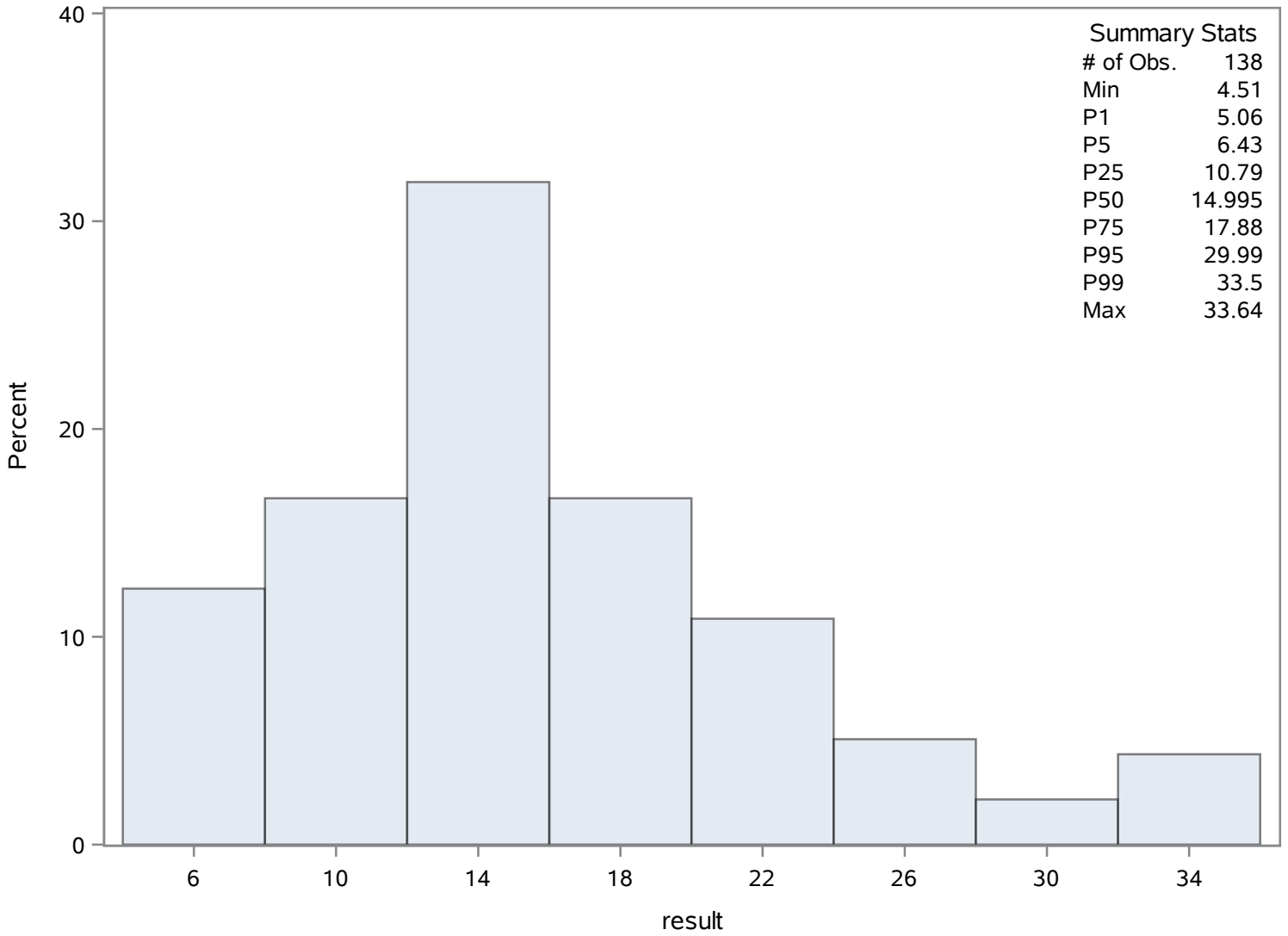
Quantiles (Definition 5)	
Level	Quantile
1%	5.060
0% Min	4.510

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.51	1076	33.29	1119
5.06	1075	33.40	1151
5.33	1074	33.43	1149
6.28	1070	33.50	1120
6.33	1069	33.64	1150

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	134	Sum Weights	134
Mean	4.80597015	Sum Observations	644
Std Deviation	3.04225286	Variance	9.25530244
Skewness	1.00393649	Kurtosis	0.40138165
Uncorrected SS	4326	Corrected SS	1230.95522
Coeff Variation	63.3015346	Std Error Mean	0.26281062

Basic Statistical Measures			
Location		Variability	
Mean	4.805970	Std Deviation	3.04225
Median	4.000000	Variance	9.25530
Mode	2.000000	Range	12.00000
		Interquartile Range	5.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.28682	Pr > t 	<.0001
Sign	M	67	Pr >= M 	<.0001
Signed Rank	S	4522.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	13
99%	13
95%	12
90%	9
75% Q3	7
50% Median	4
25% Q1	2
10%	2
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SRP_ugL

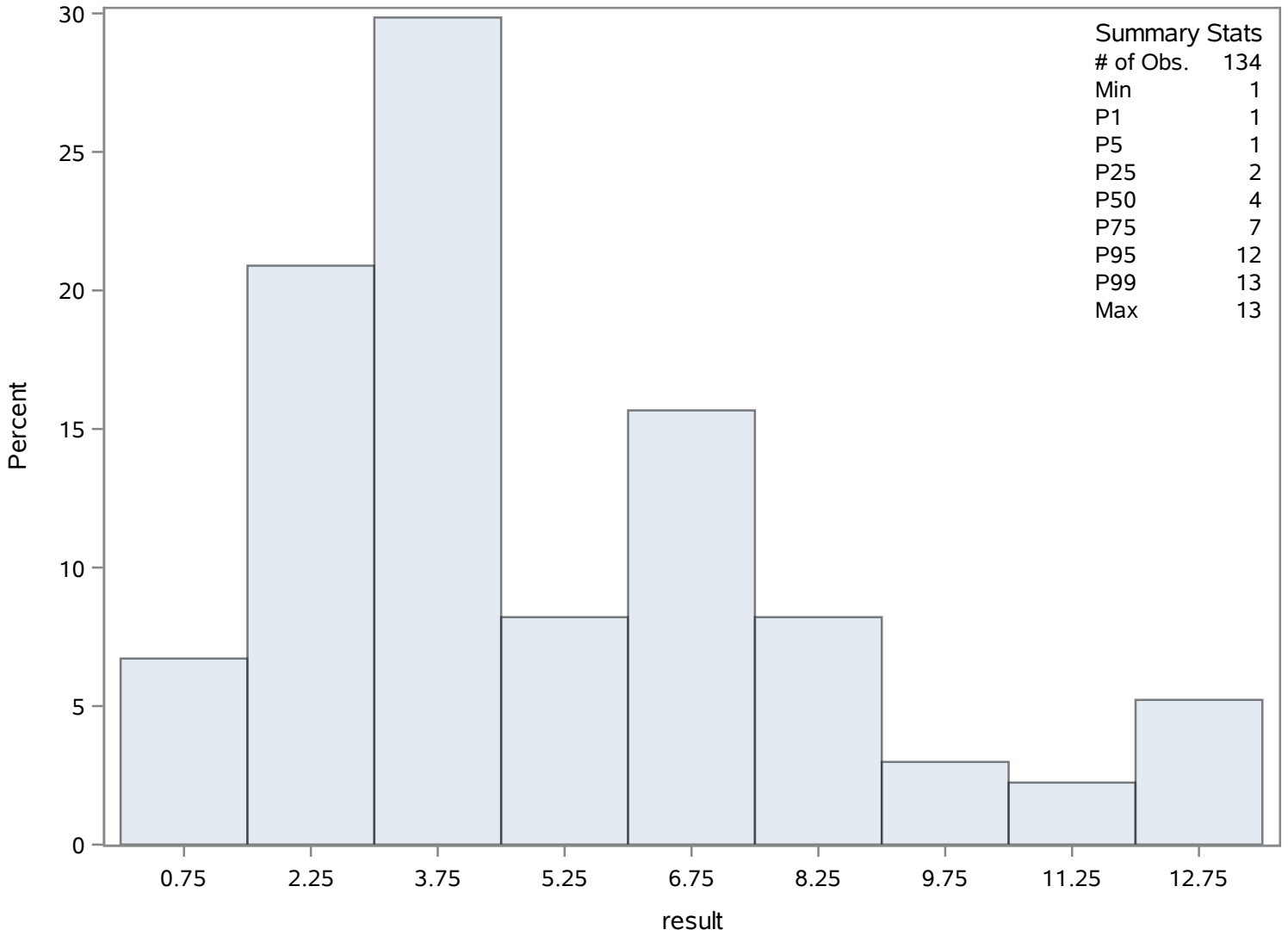
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	1246	12	1307
1	1245	13	1305
1	1244	13	1306
1	1243	13	1308
1	1220	13	1309

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	23.2651449	Sum Observations	3210.59
Std Deviation	5.59070935	Variance	31.256031
Skewness	0.00095447	Kurtosis	-1.4210023
Uncorrected SS	78976.9179	Corrected SS	4282.07625
Coeff Variation	24.0304084	Std Error Mean	0.47591278

Basic Statistical Measures			
Location		Variability	
Mean	23.26514	Std Deviation	5.59071
Median	22.07500	Variance	31.25603
Mode	18.06000	Range	18.02000
		Interquartile Range	10.54000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	48.88531	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.620
99%	31.520
95%	31.180
90%	30.470
75% Q3	29.140
50% Median	22.075
25% Q1	18.600
10%	15.790
5%	14.960
1%	13.600
0% Min	13.600

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TEMP_C

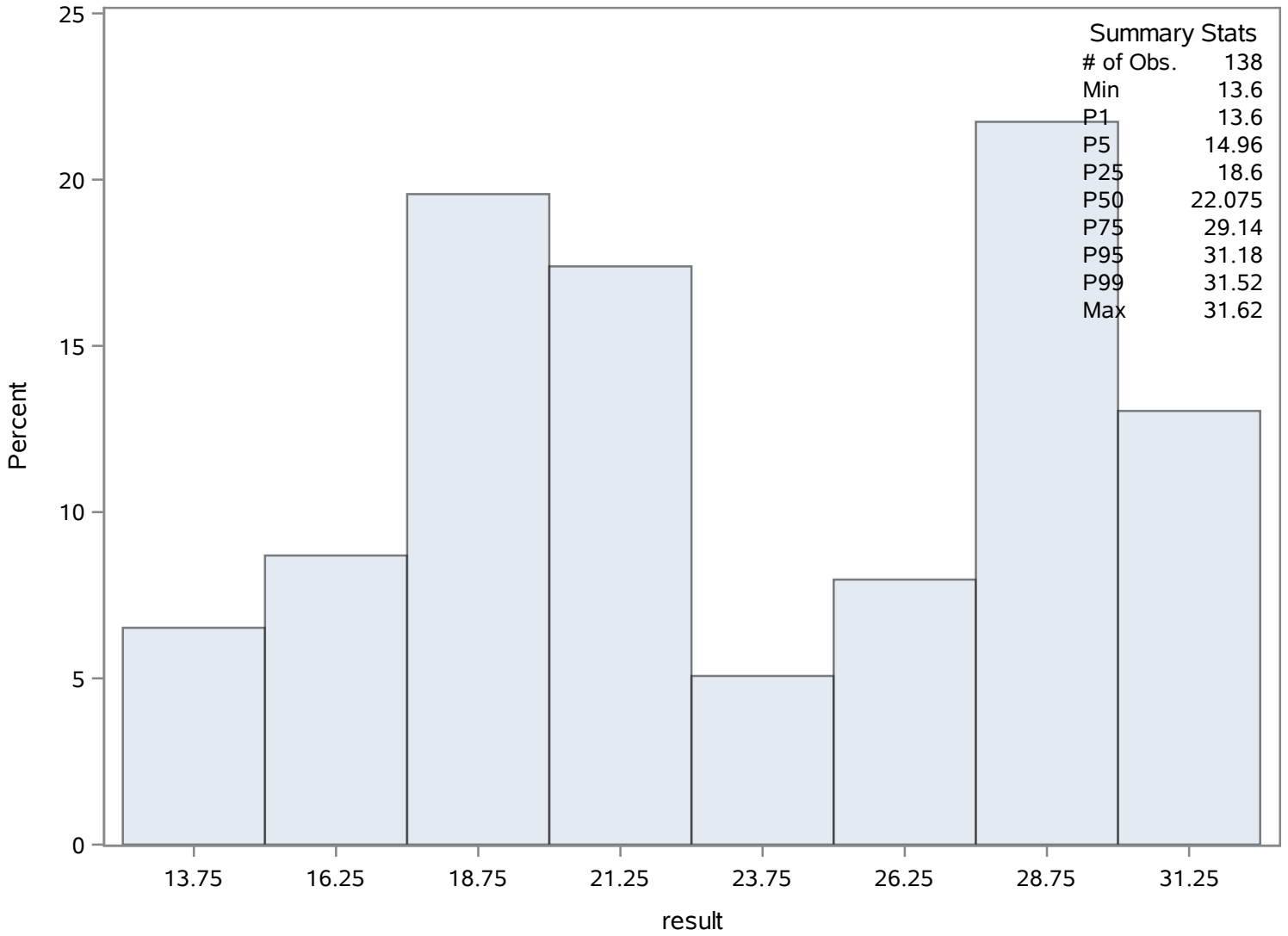
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.60	1339	31.40	1396
13.60	1338	31.44	1431
13.60	1337	31.48	1394
13.77	1425	31.52	1432
14.02	1424	31.62	1430

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	457.115942	Sum Observations	63082
Std Deviation	136.290912	Variance	18575.2127
Skewness	0.34088939	Kurtosis	0.25917434
Uncorrected SS	31380592	Corrected SS	2544804.14
Coeff Variation	29.8153925	Std Error Mean	11.6018529

Basic Statistical Measures			
Location		Variability	
Mean	457.1159	Std Deviation	136.29091
Median	440.0000	Variance	18575
Mode	400.0000	Range	830.00000
		Interquartile Range	190.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	39.40025	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	870
99%	810
95%	680
90%	640
75% Q3	550
50% Median	440
25% Q1	360
10%	290
5%	260
1%	220
0% Min	40

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TN_ugl

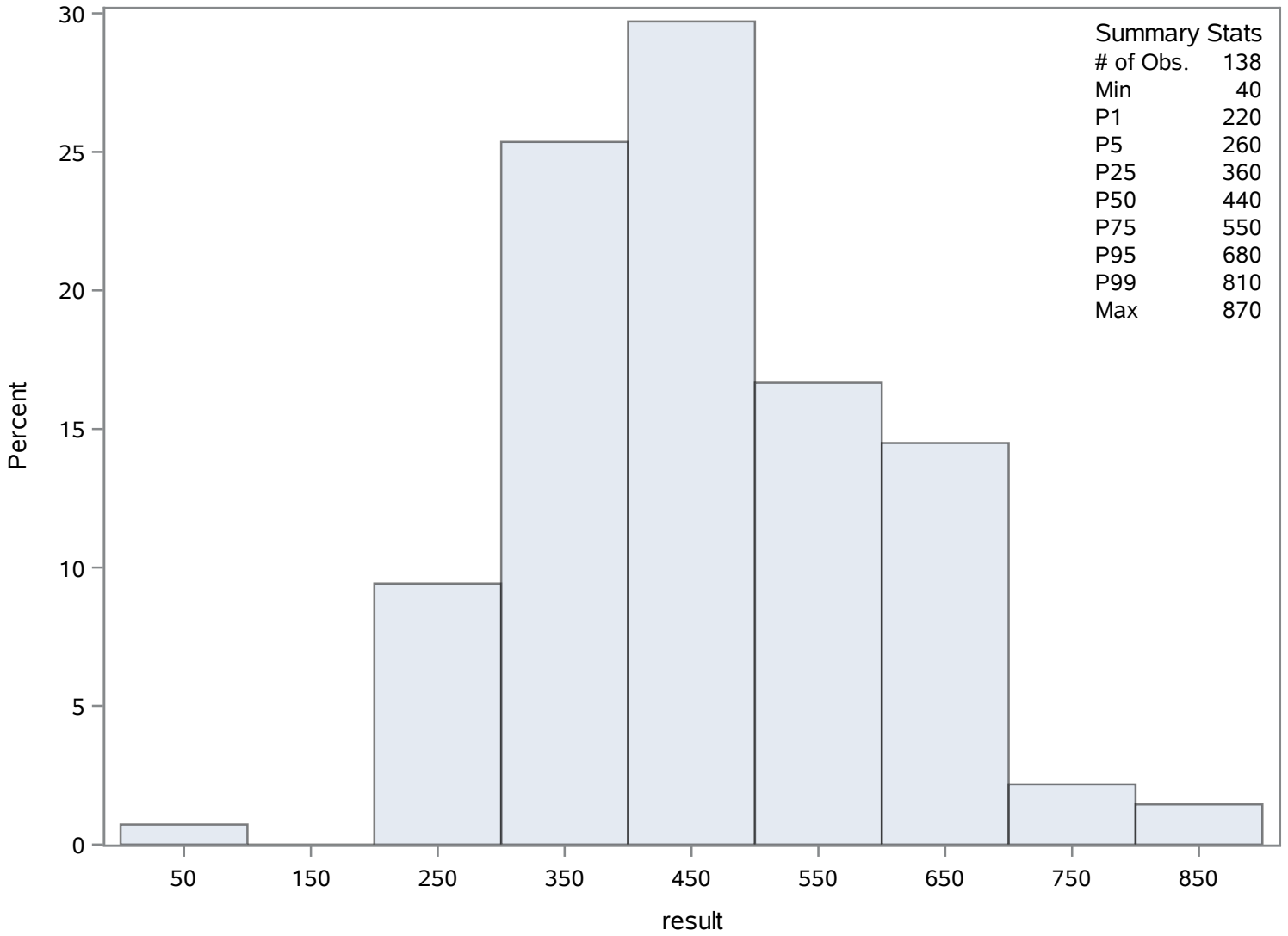
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
40	1520	732	1555
220	1501	740	1533
220	1500	770	1554
240	1499	810	1532
250	1576	870	1534

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	21.2681159	Sum Observations	2935
Std Deviation	8.61041625	Variance	74.139268
Skewness	2.42397568	Kurtosis	8.95307753
Uncorrected SS	72579	Corrected SS	10157.0797
Coeff Variation	40.4850917	Std Error Mean	0.73296731

Basic Statistical Measures			
Location		Variability	
Mean	21.26812	Std Deviation	8.61042
Median	20.00000	Variance	74.13927
Mode	21.00000	Range	60.00000
		Interquartile Range	7.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	29.01646	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	67
99%	58
95%	37
90%	31
75% Q3	23
50% Median	20
25% Q1	16
10%	14
5%	13
1%	7
0% Min	7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TP_ugl

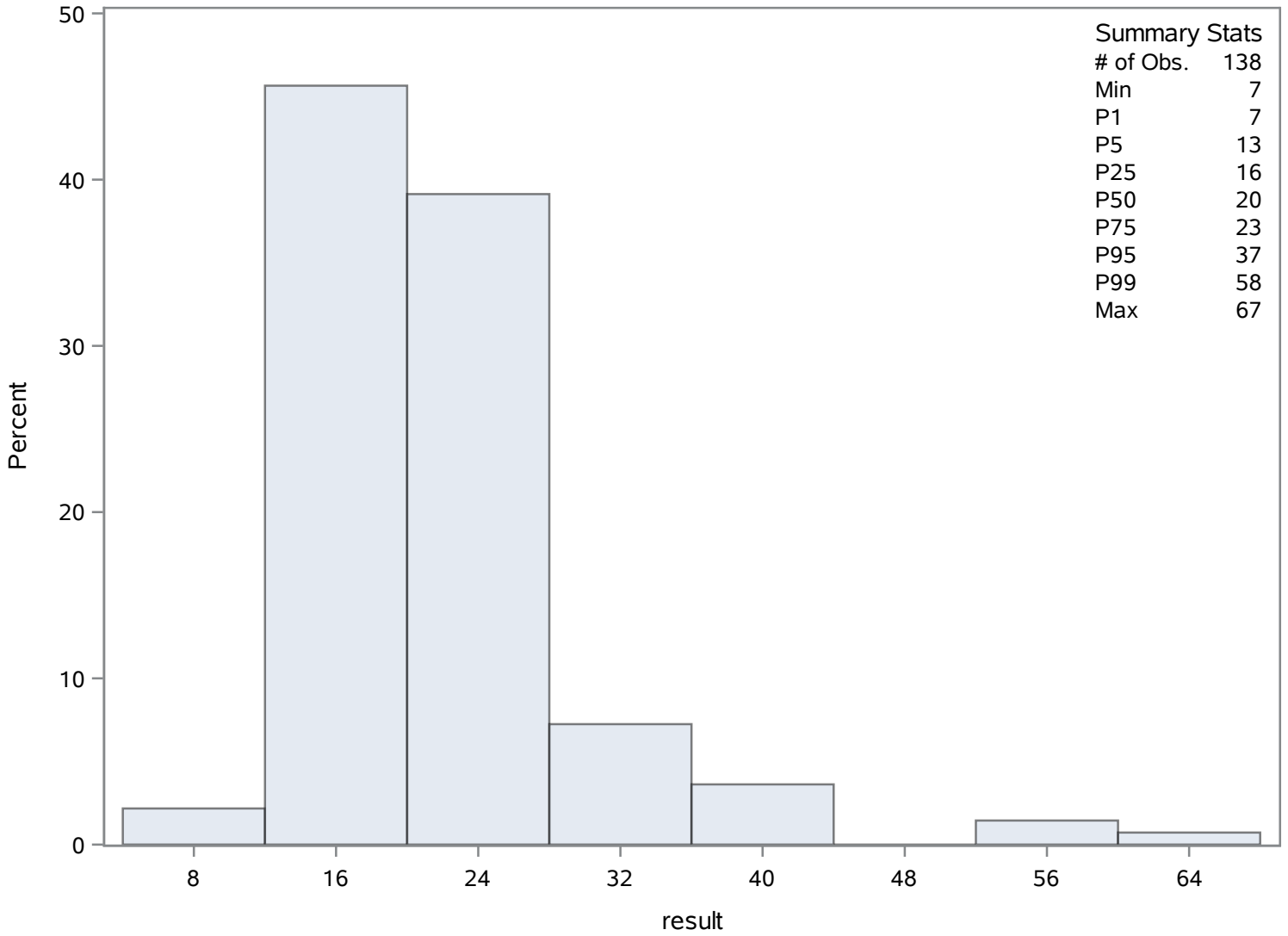
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	1714	40	1696
7	1713	42	1693
8	1712	57	1691
12	1666	58	1704
12	1652	67	1703

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	108	Sum Weights	108
Mean	7.85138889	Sum Observations	847.95
Std Deviation	0.19687018	Variance	0.03875787
Skewness	0.15117961	Kurtosis	-0.5468956
Uncorrected SS	6661.7323	Corrected SS	4.14709167
Coeff Variation	2.50745669	Std Error Mean	0.01894384

Basic Statistical Measures			
Location		Variability	
Mean	7.851389	Std Deviation	0.19687
Median	7.835000	Variance	0.03876
Mode	7.720000	Range	0.90000
		Interquartile Range	0.27000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	414.456	Pr > t 	<.0001
Sign	M	54	Pr >= M 	<.0001
Signed Rank	S	2943	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.290
99%	8.270
95%	8.150
90%	8.140
75% Q3	7.980
50% Median	7.835
25% Q1	7.710
10%	7.640
5%	7.580
1%	7.400
0% Min	7.390

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Field

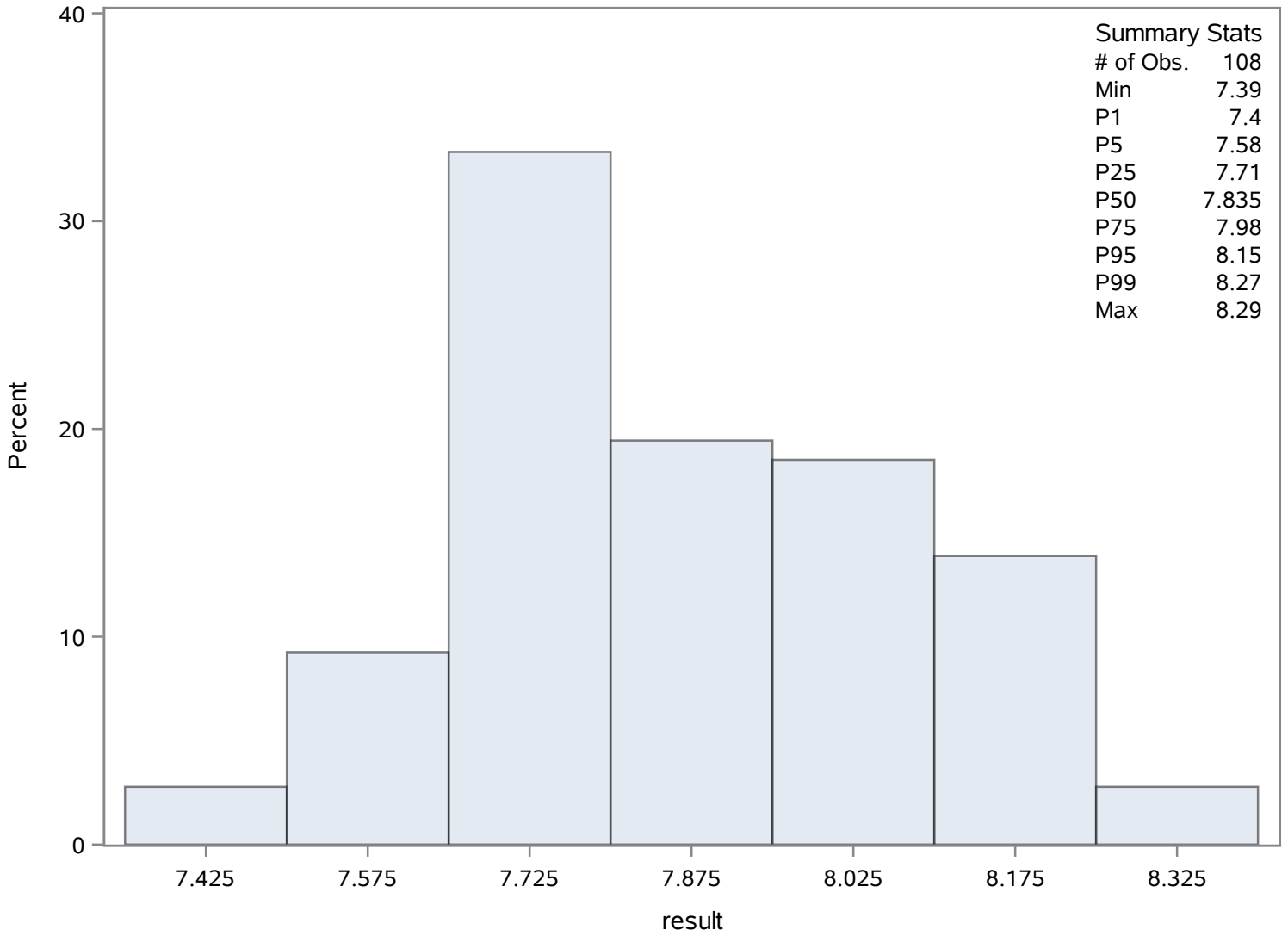
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.39	1787	8.17	1774
7.40	1788	8.18	1783
7.44	1789	8.25	1822
7.56	1814	8.27	1821
7.57	1756	8.29	1820

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	138	Sum Weights	138
Mean	7.92536232	Sum Observations	1093.7
Std Deviation	0.11529815	Variance	0.01329366
Skewness	0.88032957	Kurtosis	1.10745728
Uncorrected SS	8669.79	Corrected SS	1.82123188
Coeff Variation	1.45479973	Std Error Mean	0.00981483

Basic Statistical Measures			
Location		Variability	
Mean	7.925362	Std Deviation	0.11530
Median	7.900000	Variance	0.01329
Mode	8.000000	Range	0.60000
		Interquartile Range	0.20000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	807.4885	Pr > t 	<.0001
Sign	M	69	Pr >= M 	<.0001
Signed Rank	S	4795.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.3
99%	8.3
95%	8.1
90%	8.0
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.8
5%	7.8
1%	7.8
0% Min	7.7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Lab

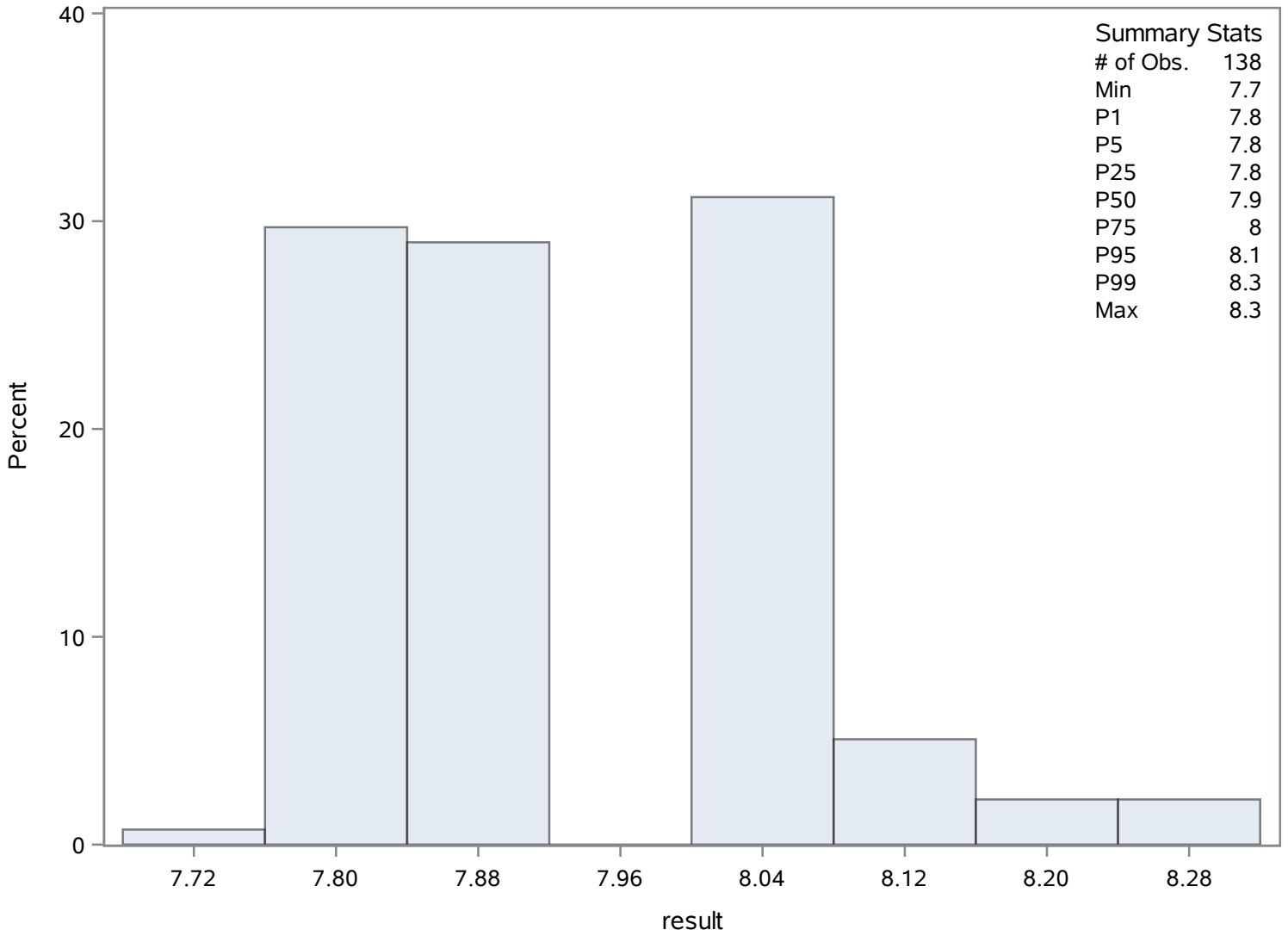
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.7	1952	8.2	1944
7.8	1966	8.2	1945
7.8	1965	8.3	1958
7.8	1964	8.3	1959
7.8	1957	8.3	1960

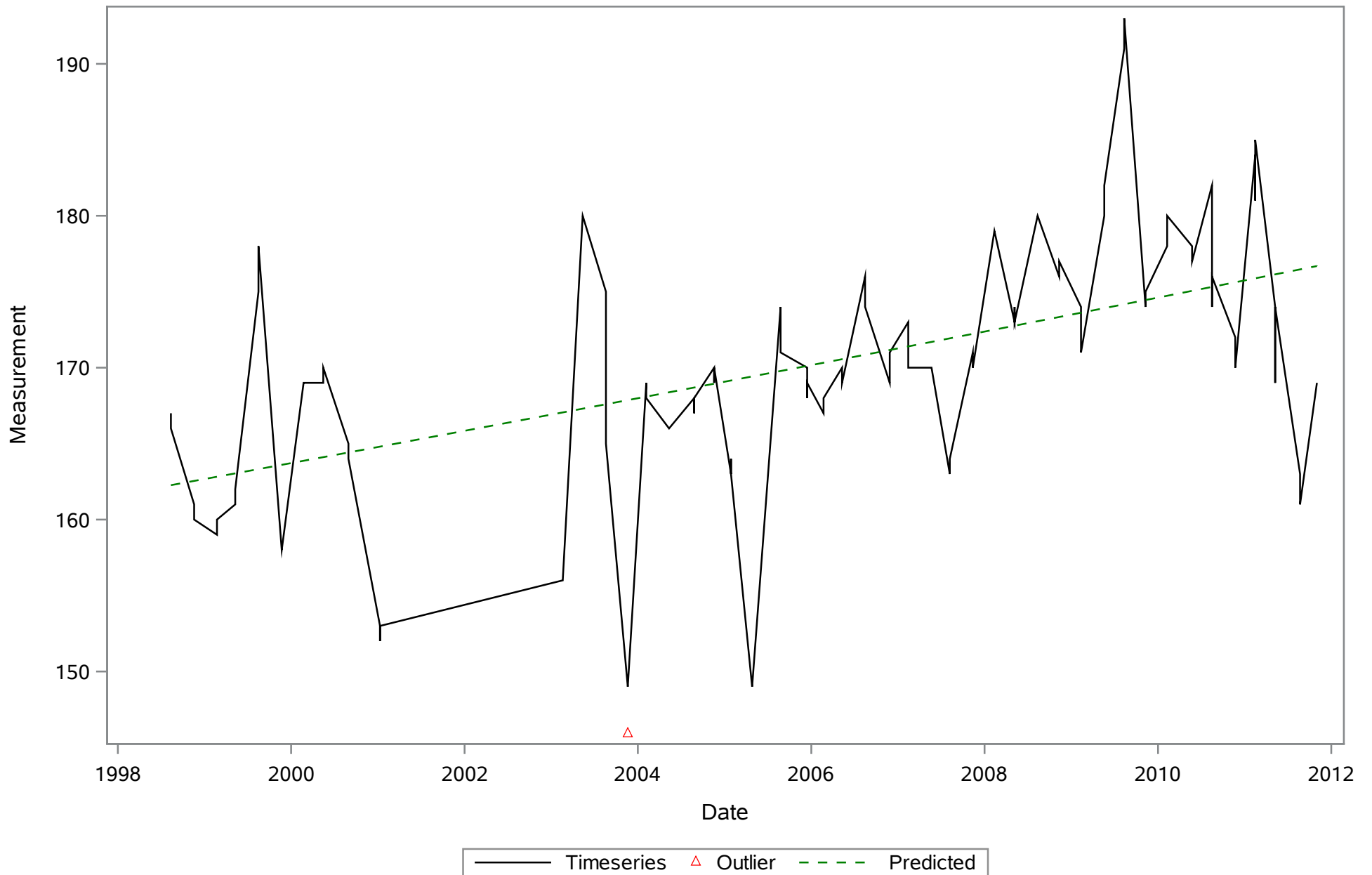
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Lab

The UNIVARIATE Procedure

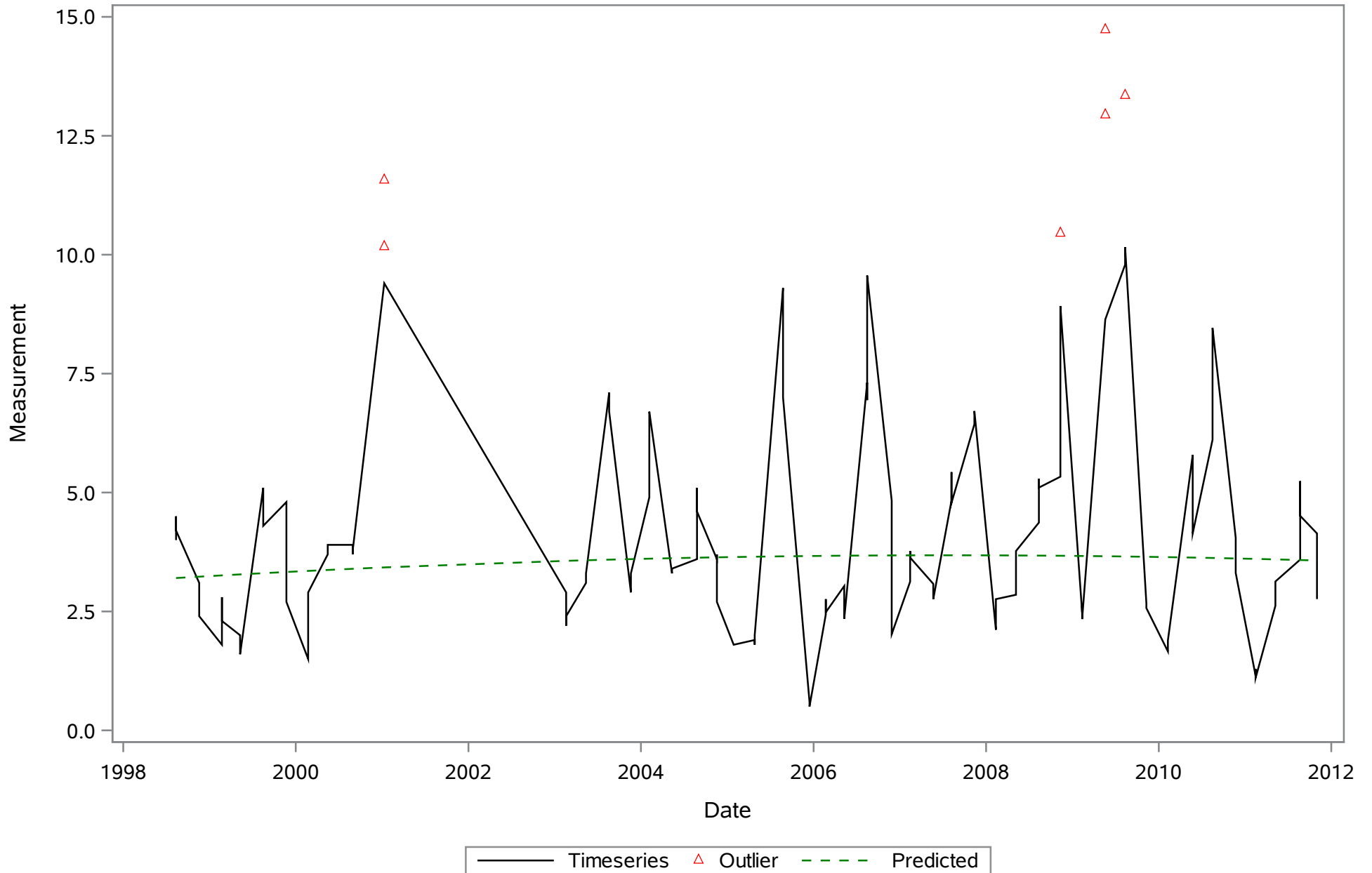
Distribution of result



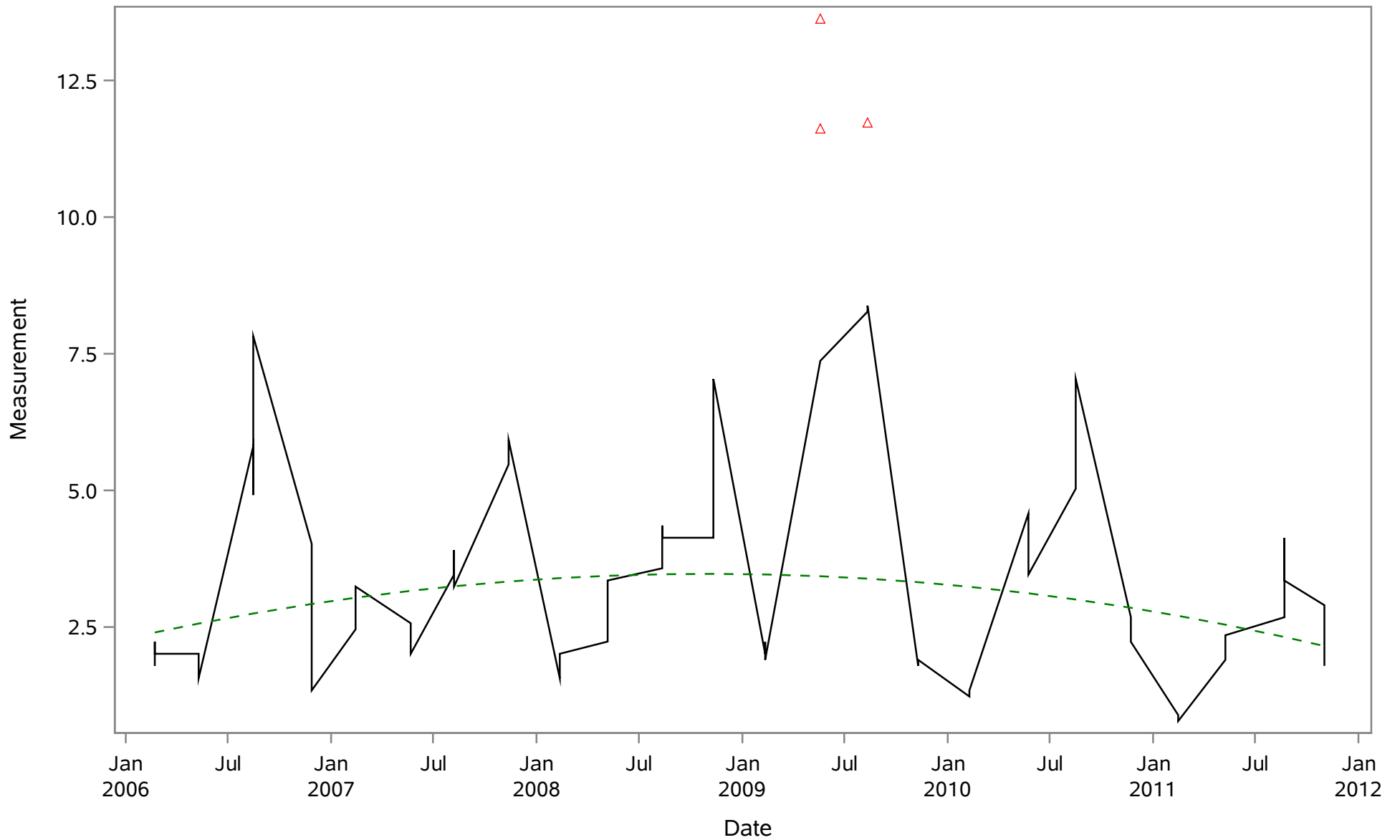
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_Uncor_ugL

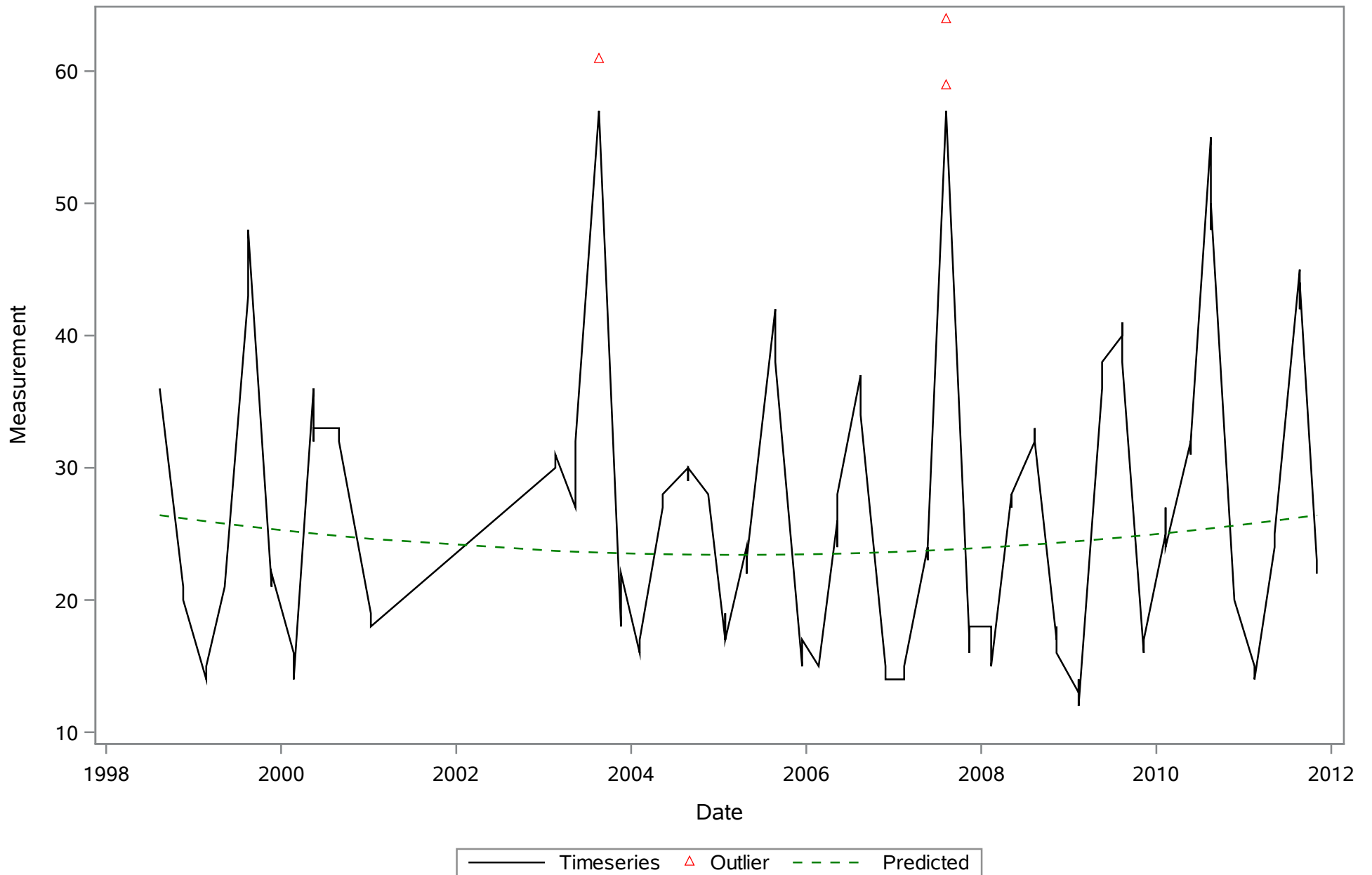


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_cor_ugl

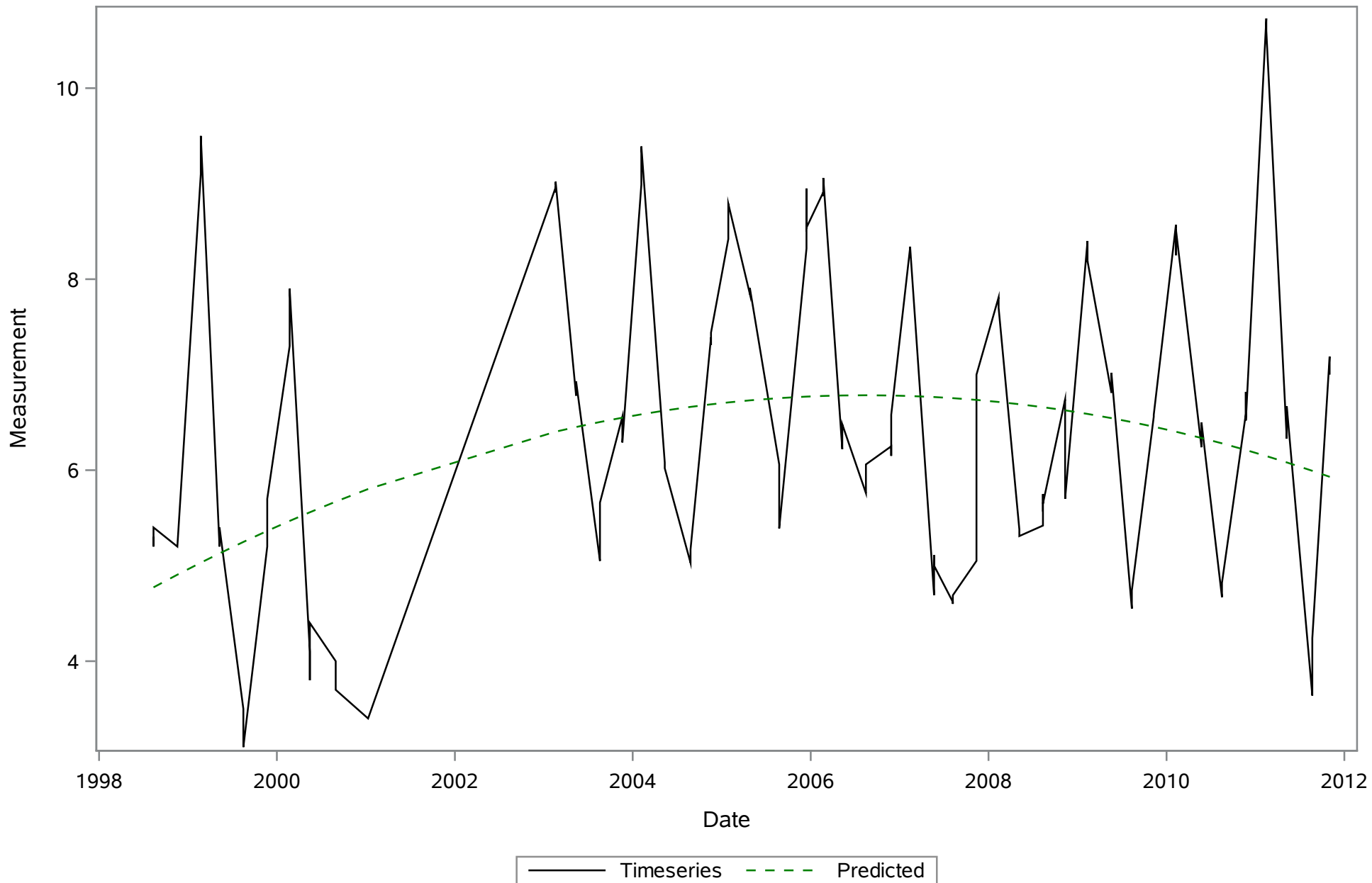


— Timeseries △ Outlier - - - Predicted

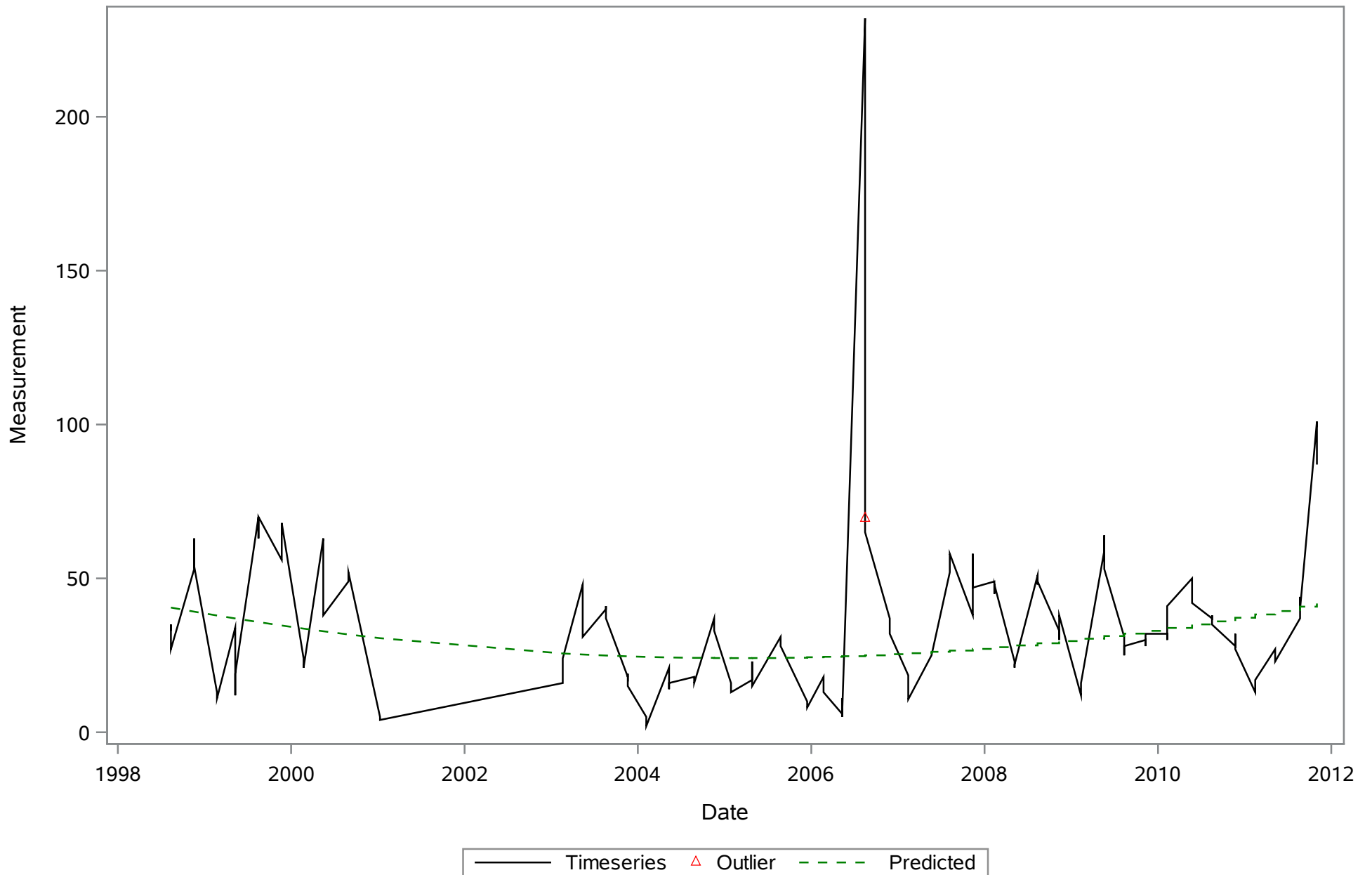
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
COLOR_PtCo



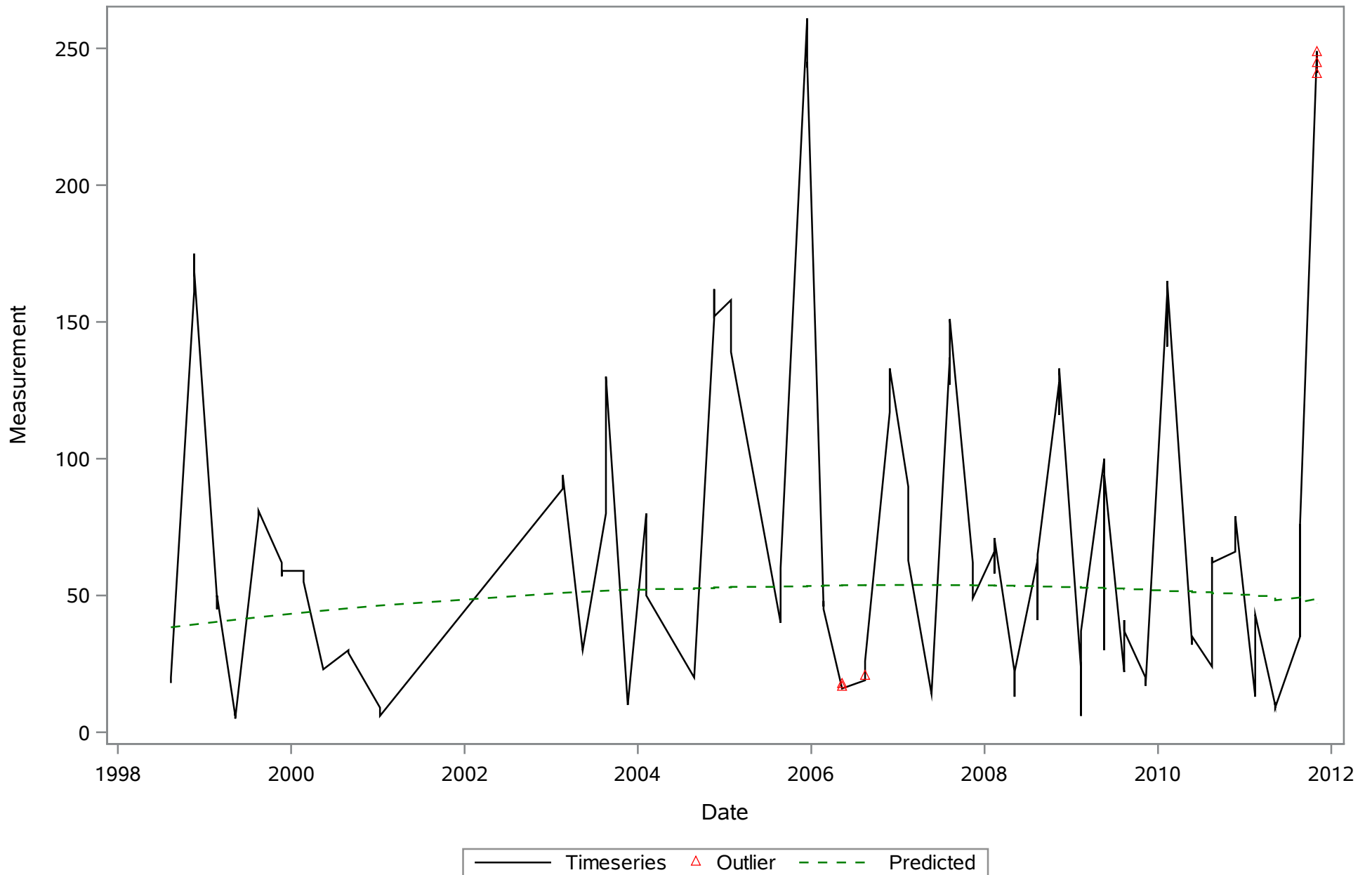
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
DO_mgL



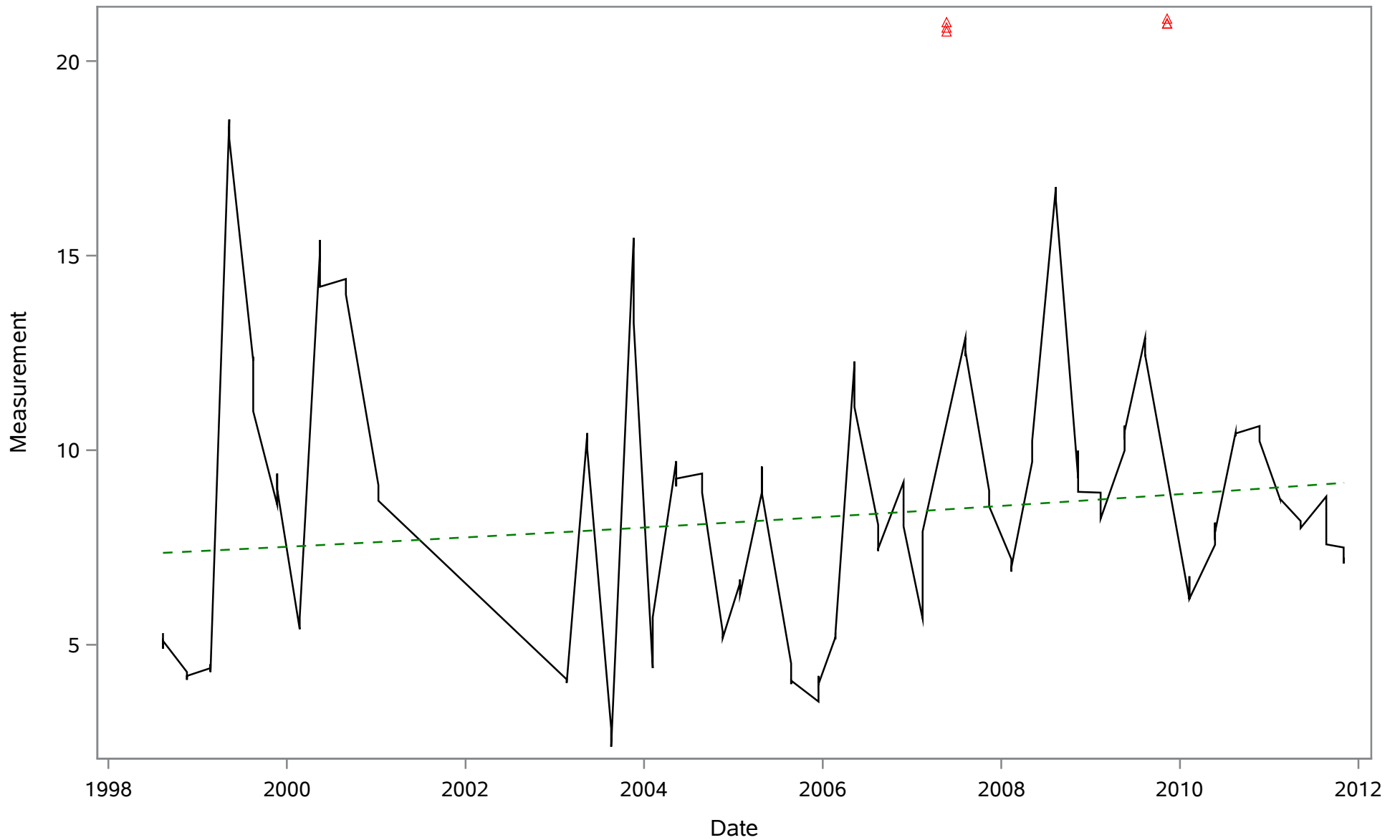
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NH4_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NO3_ugL

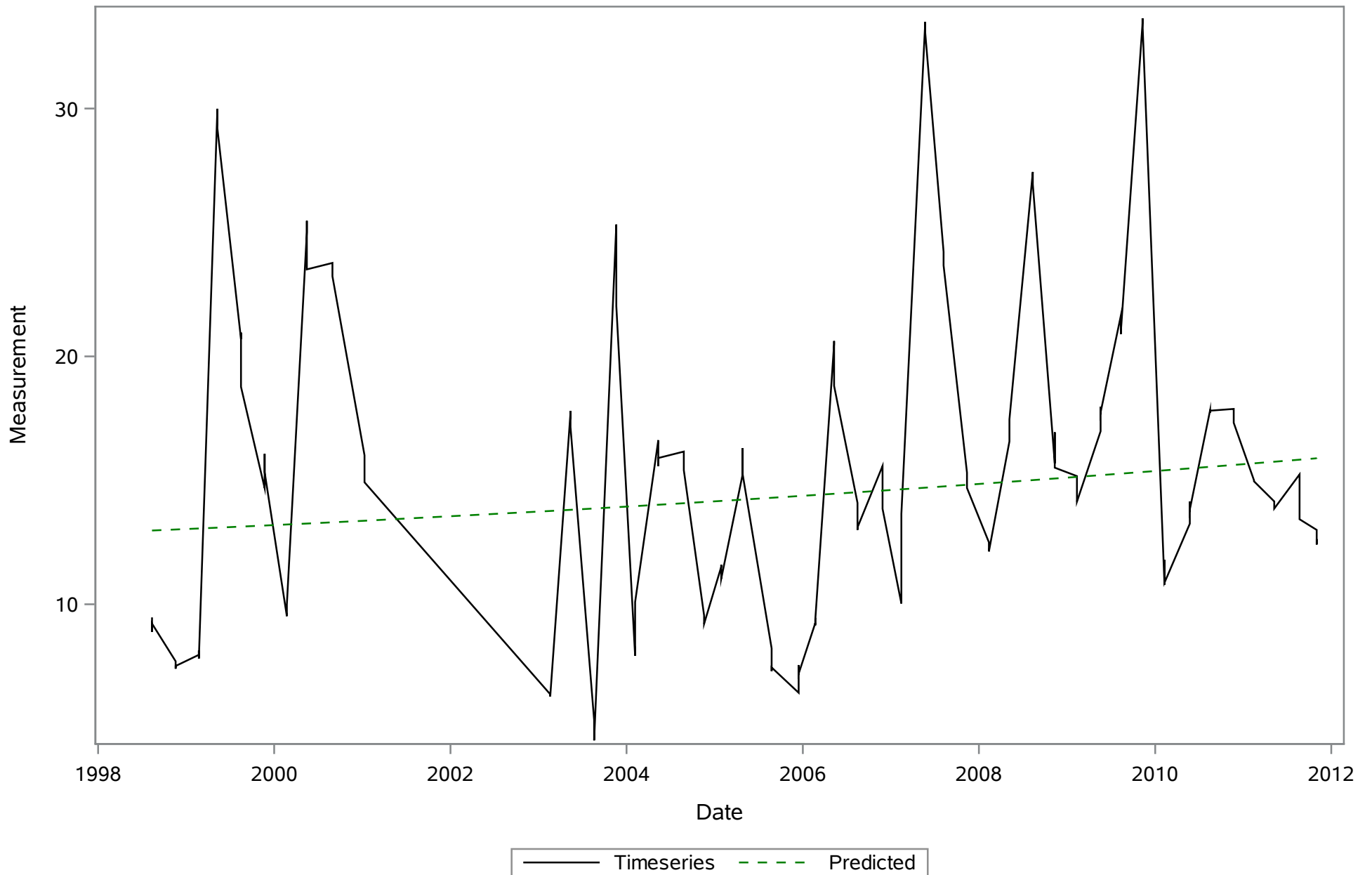


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SAL_Perc

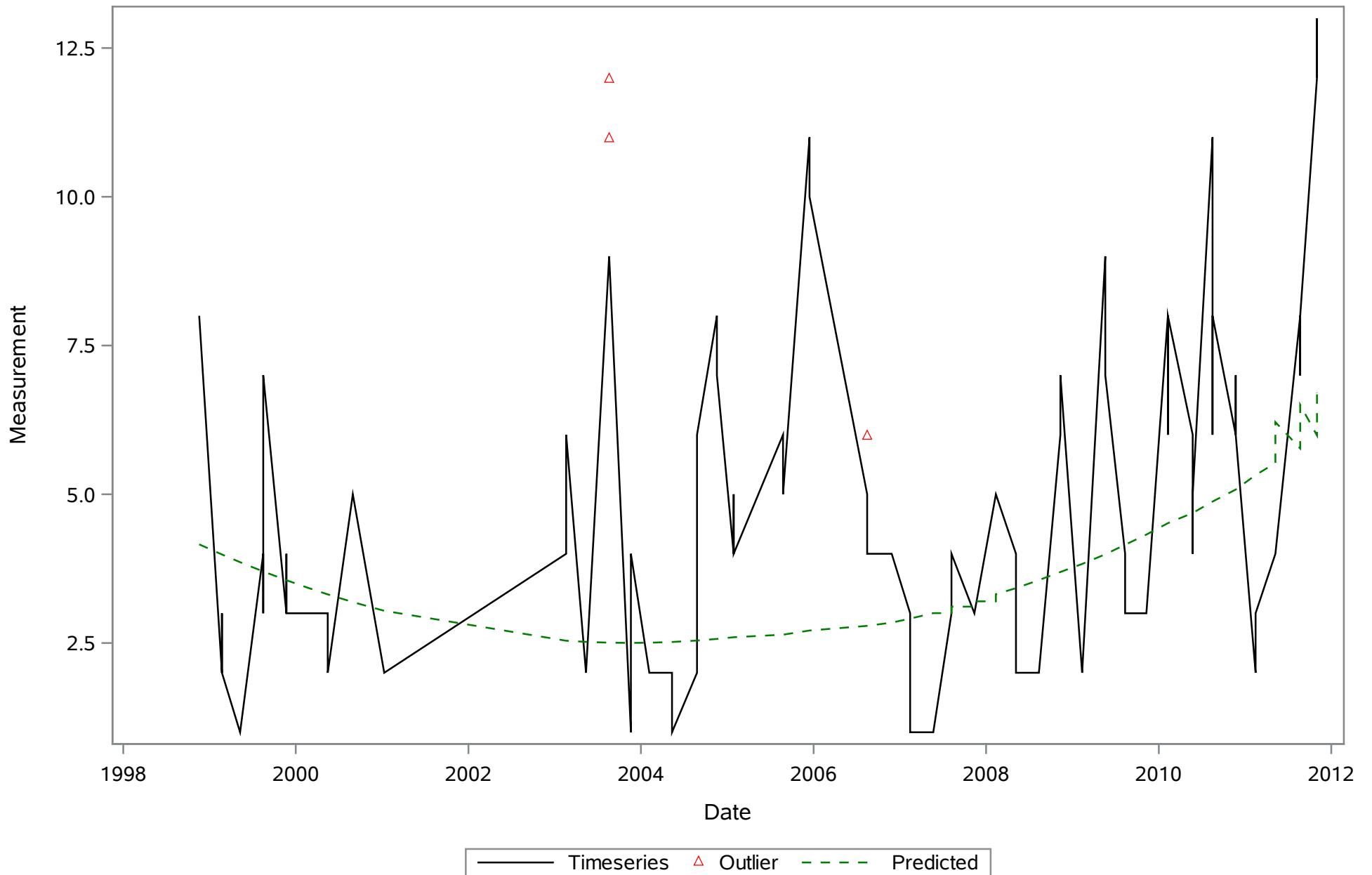


— Timeseries △ Outlier - - - Predicted

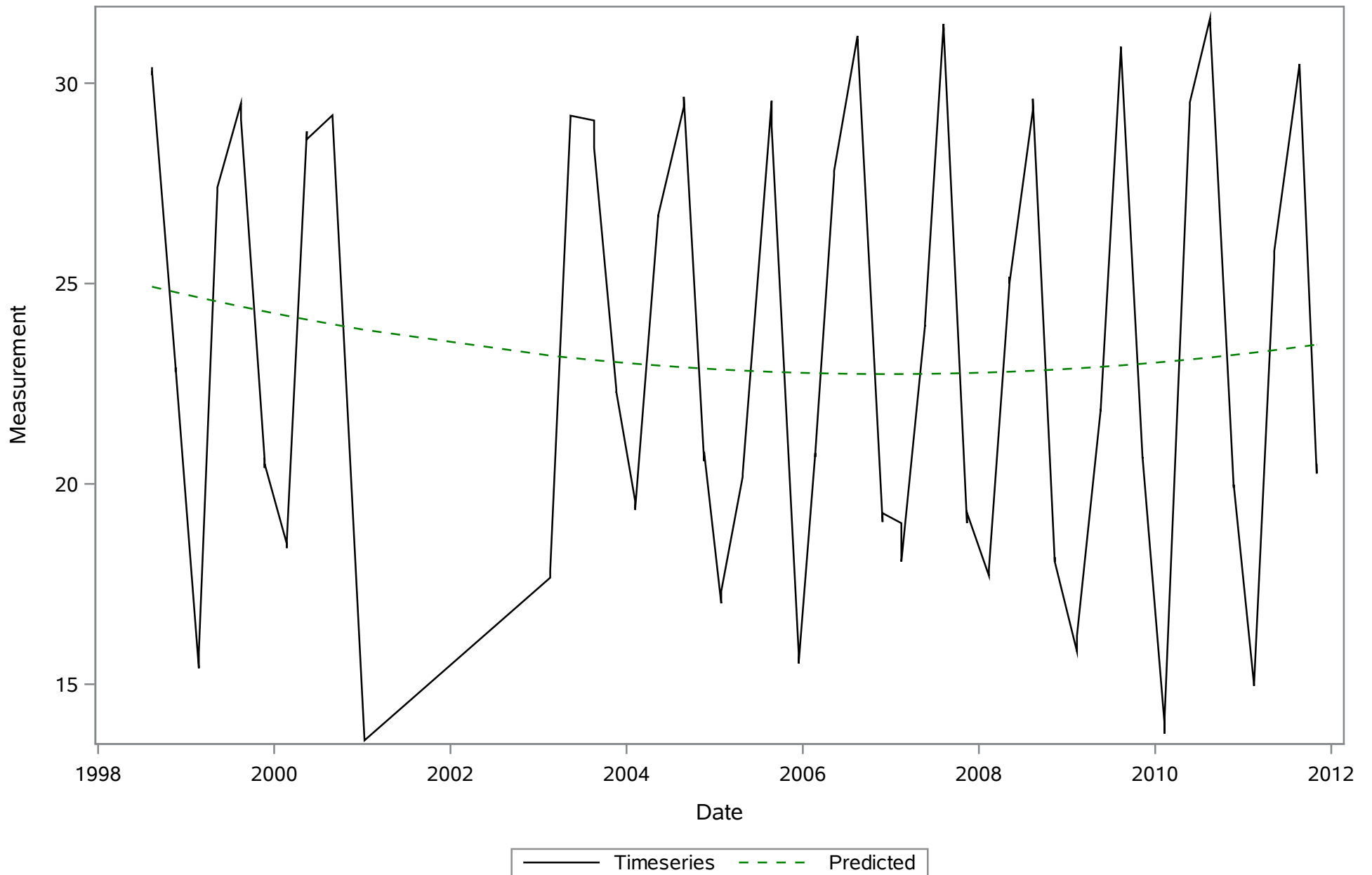
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SPCOND_mS_cm



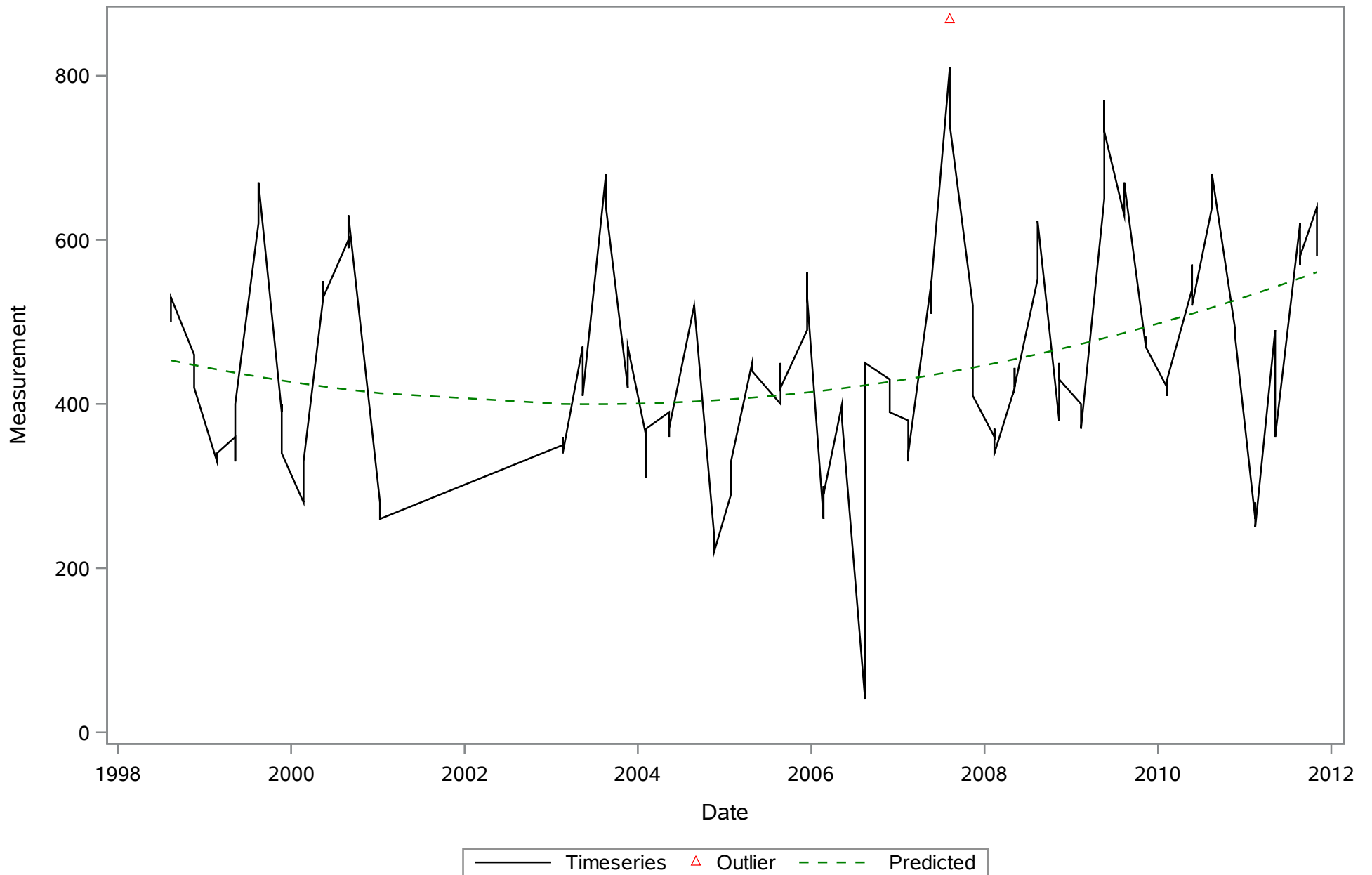
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SRP_ugL



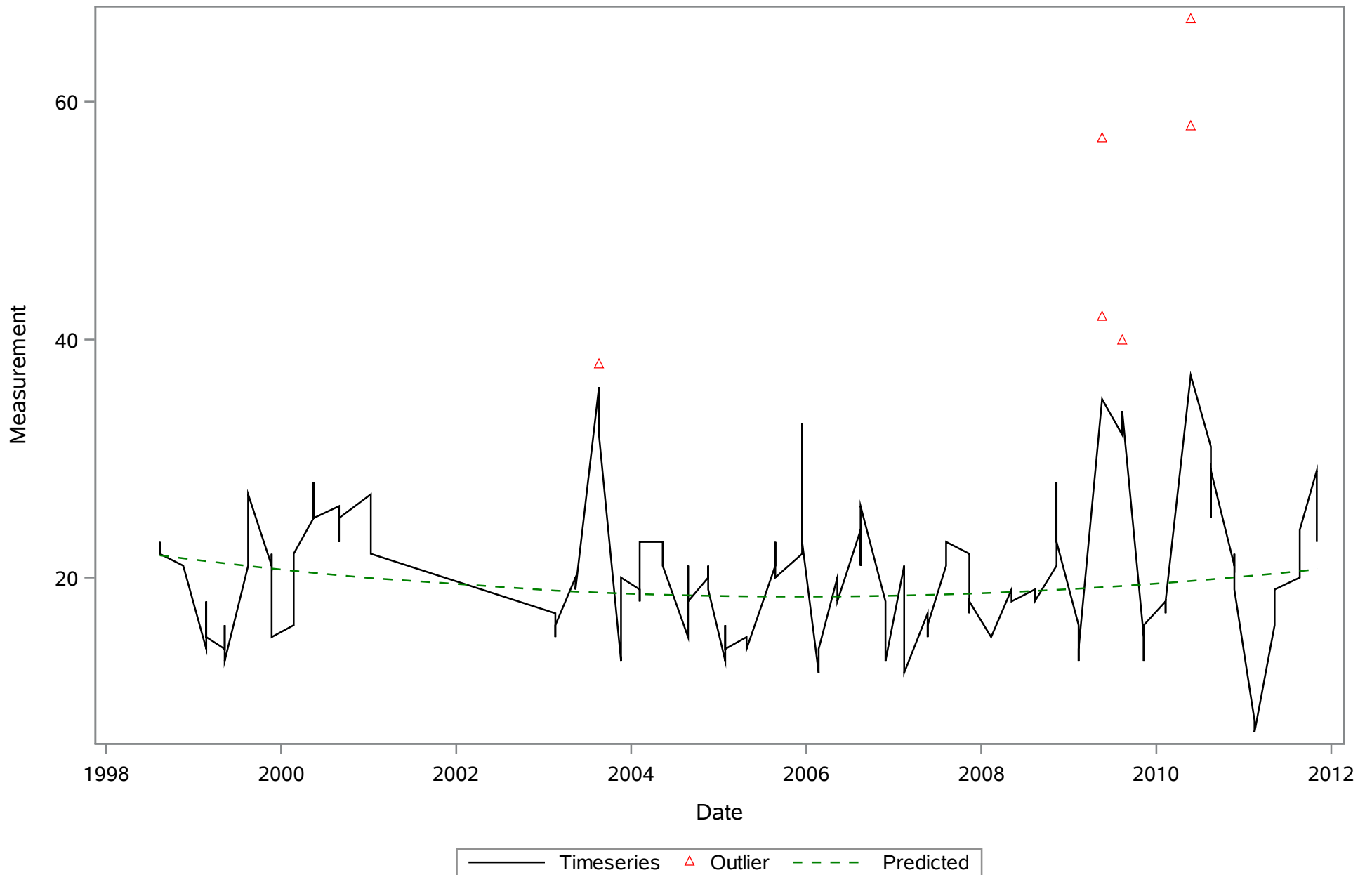
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TEMP_C



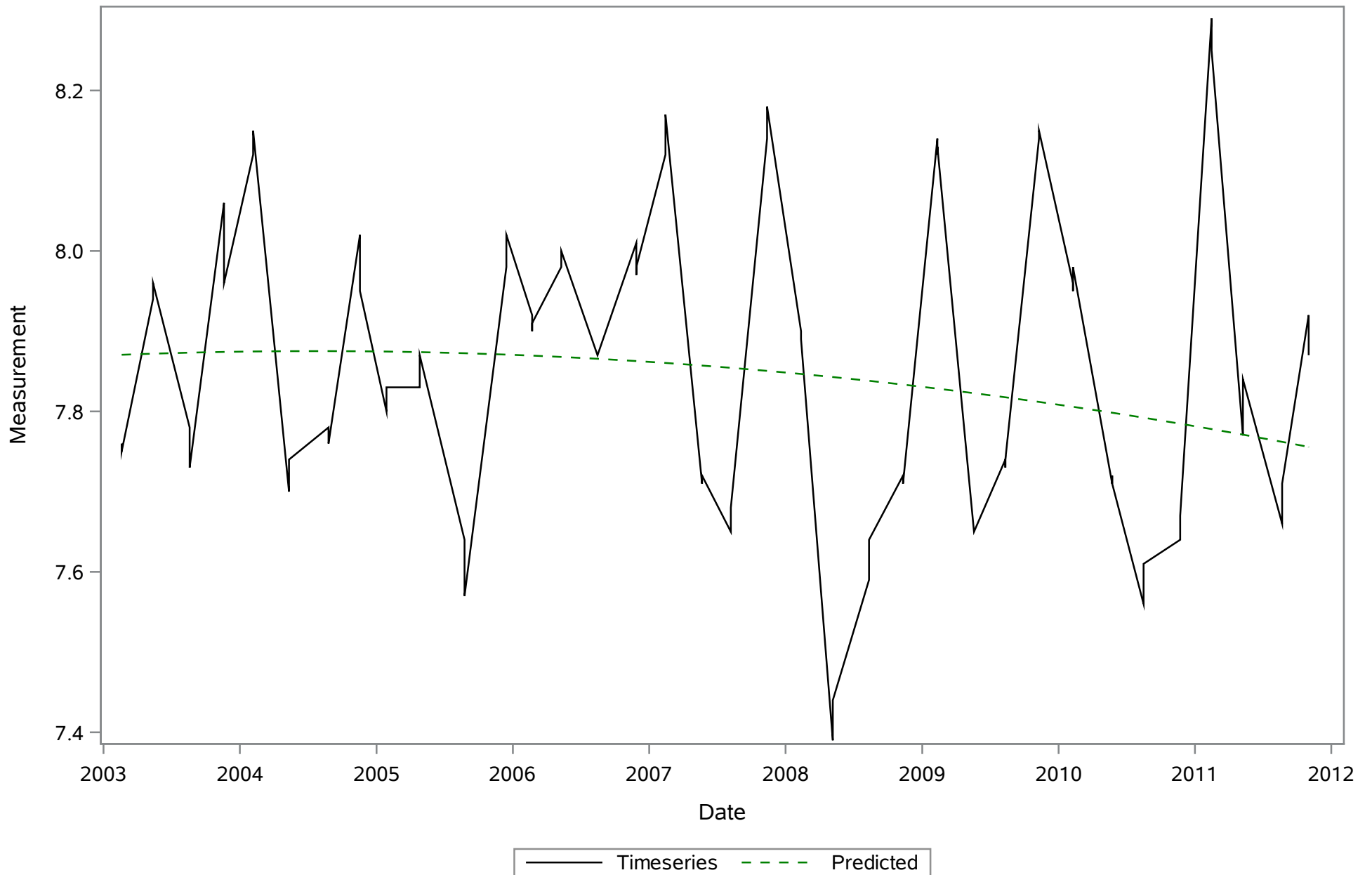
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TN_ugl



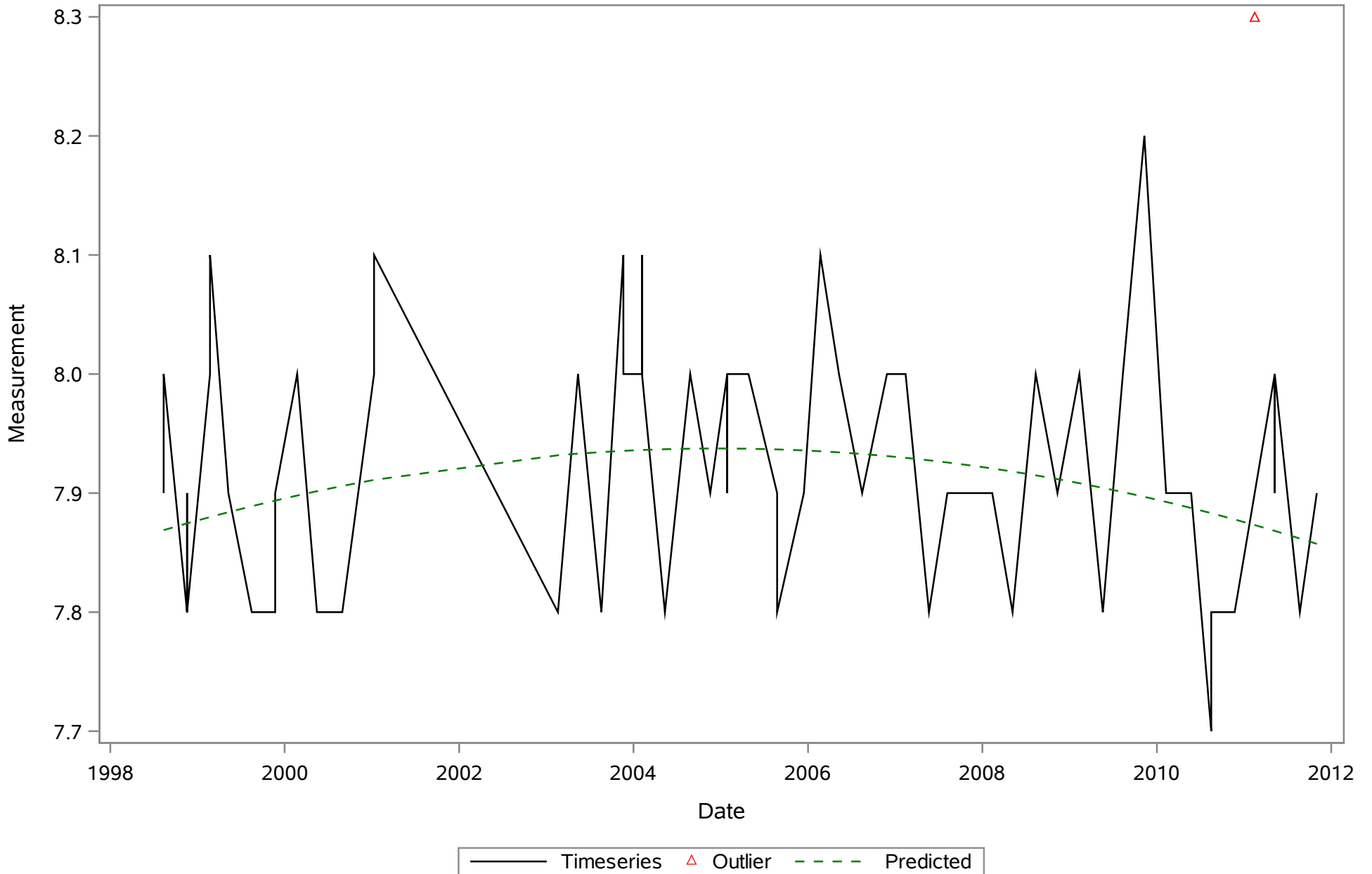
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TP_ugl



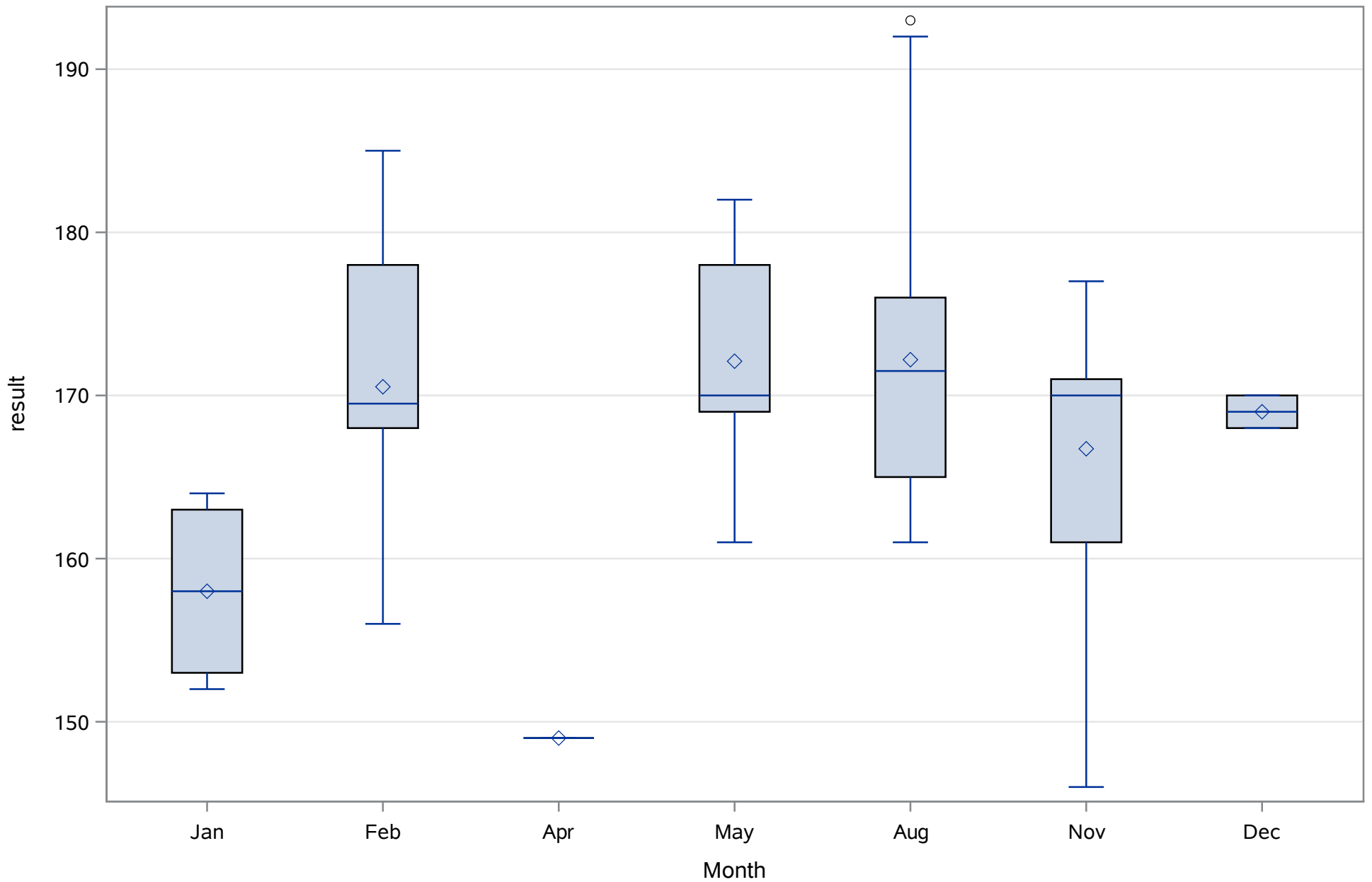
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Field



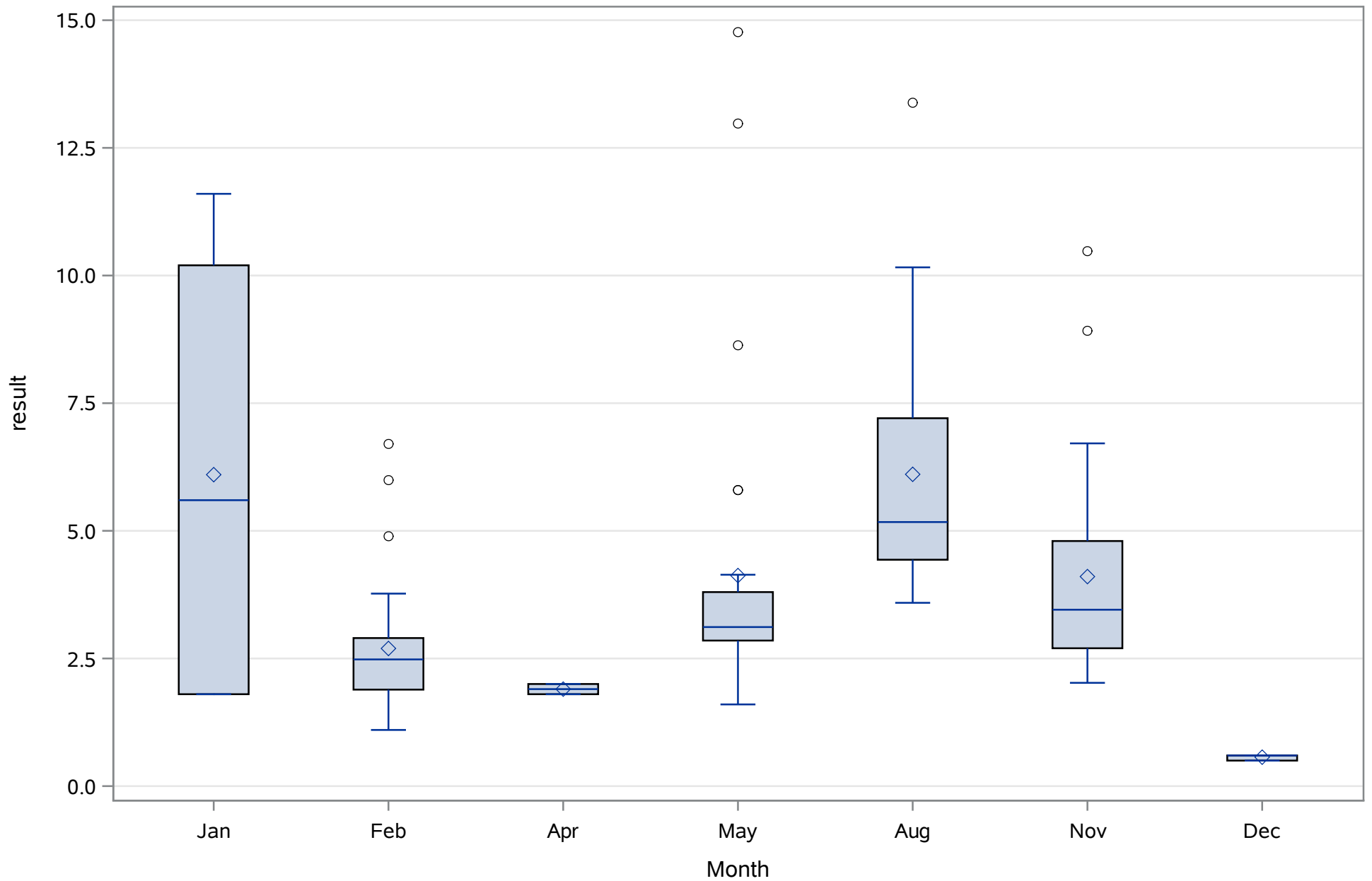
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Lab



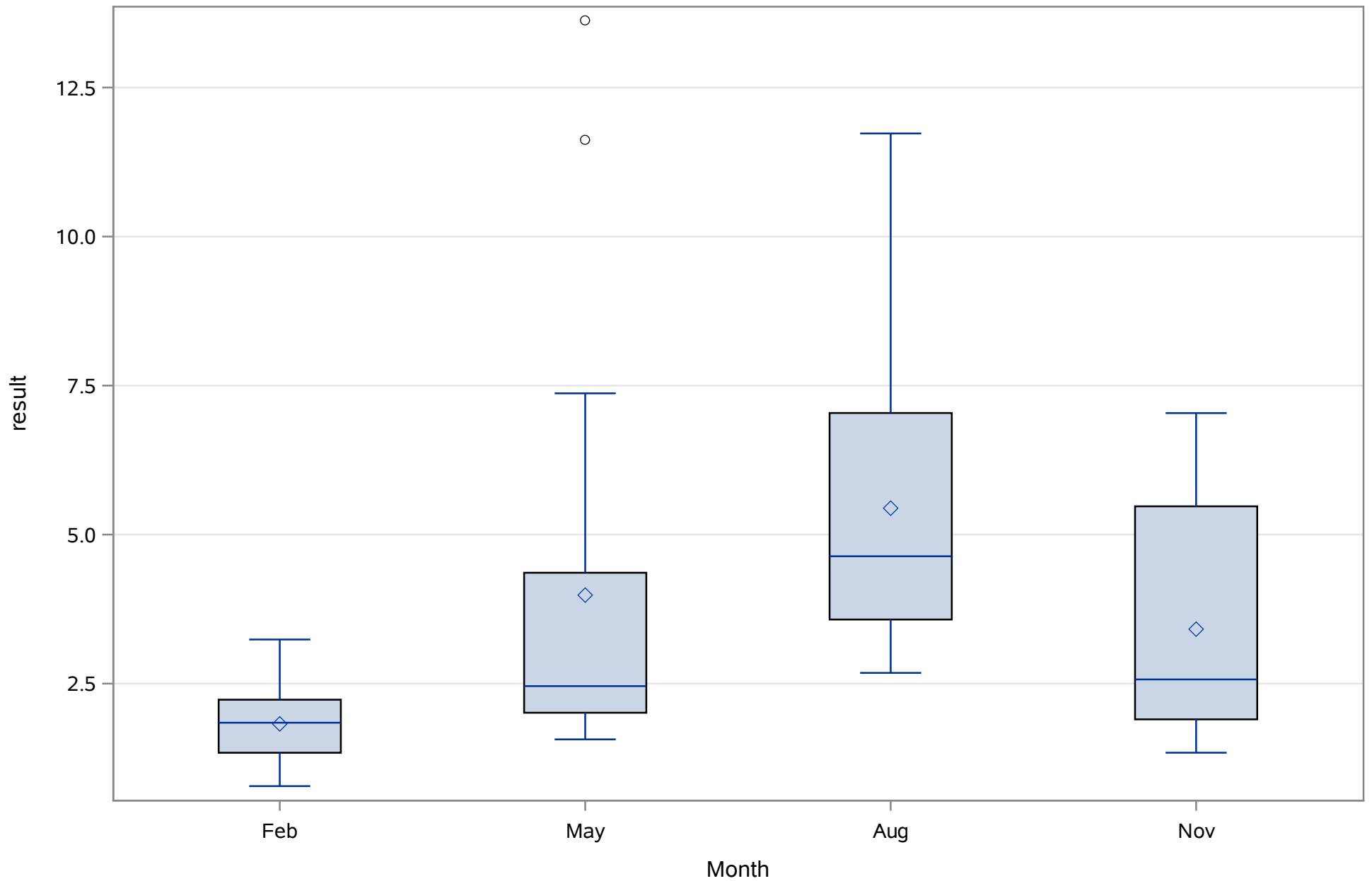
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
ALK_tot_mgL



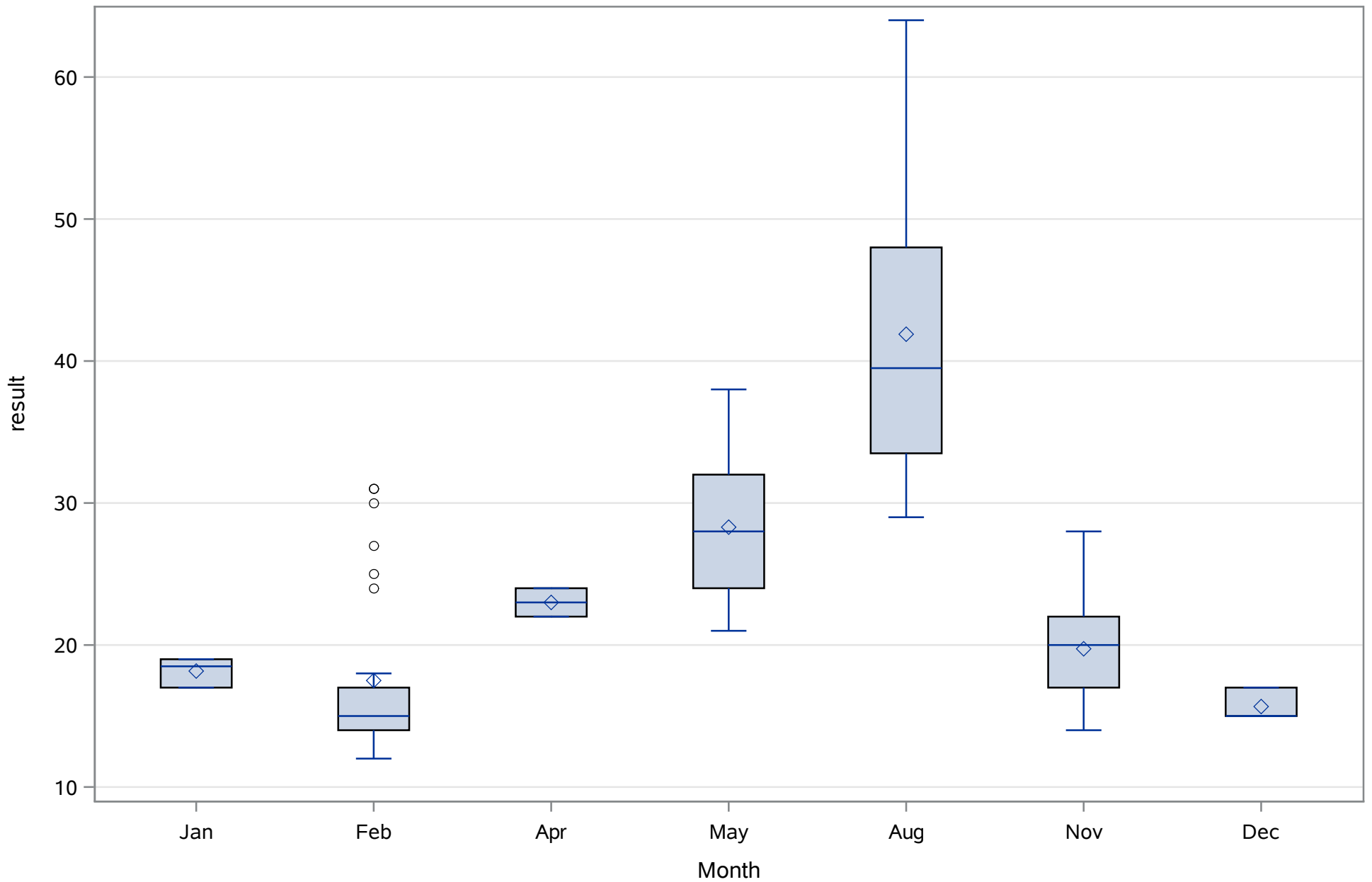
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_Uncor_ugL



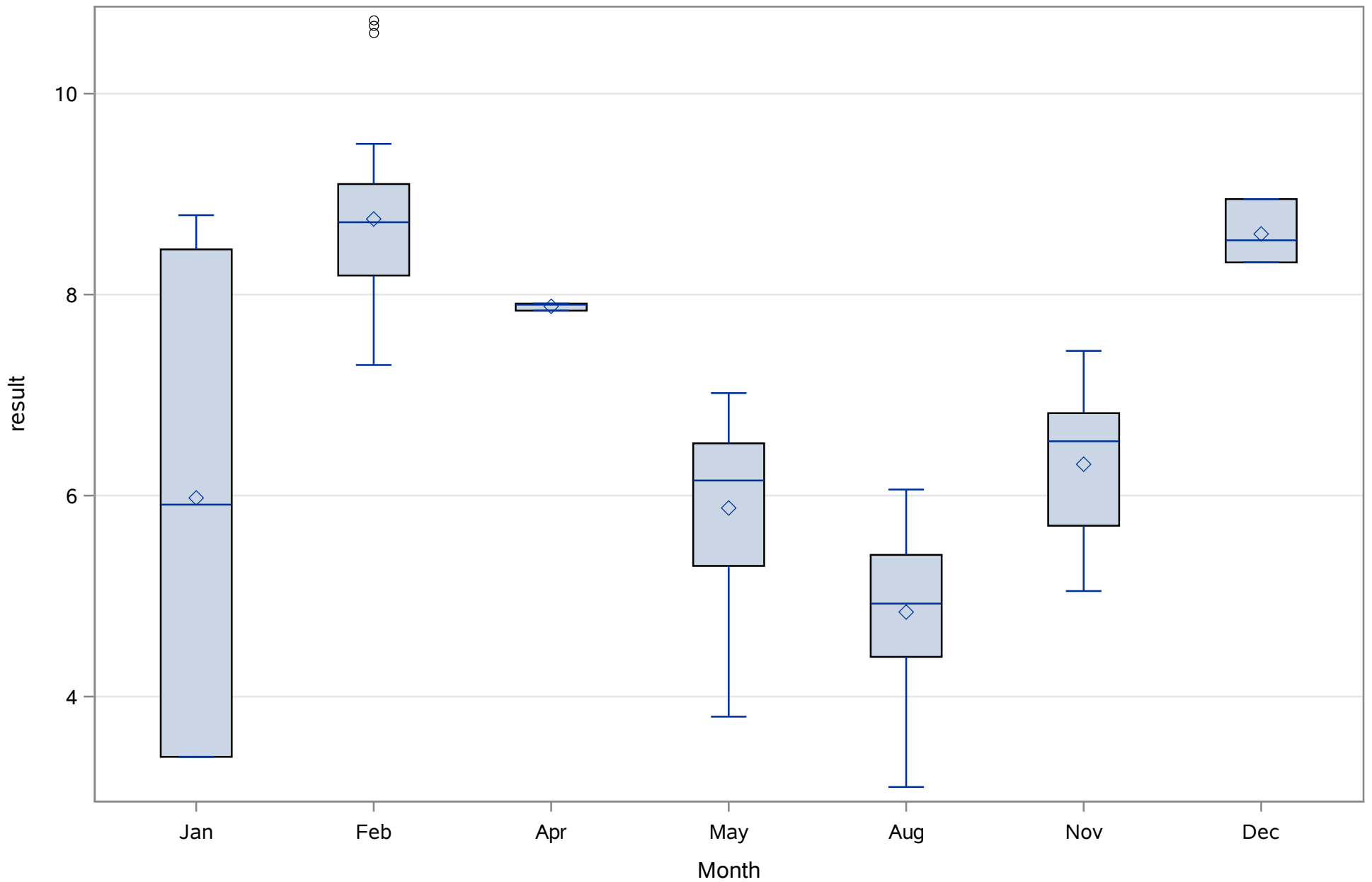
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
CHLA_cor_ugl



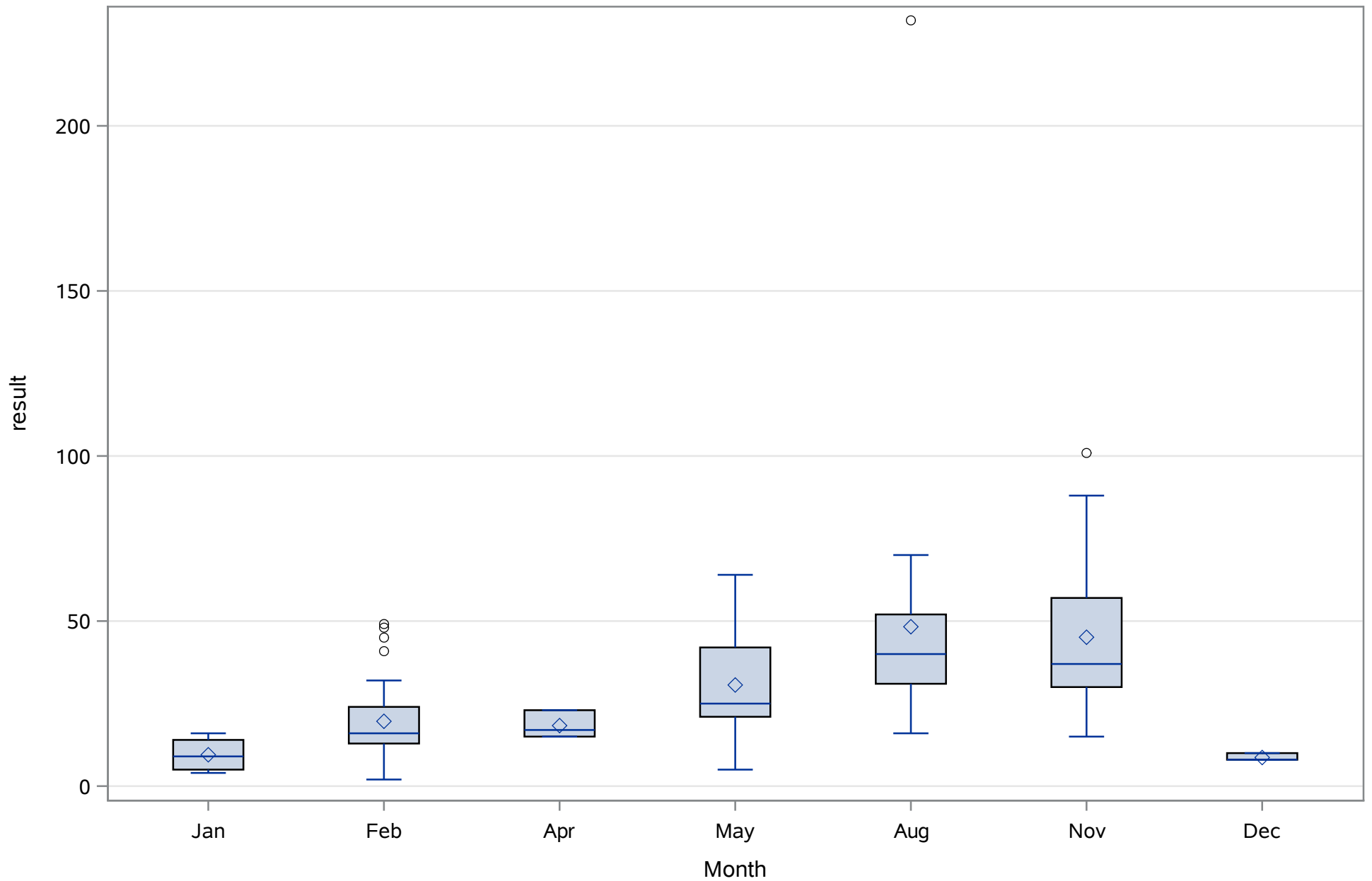
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
COLOR_PtCo



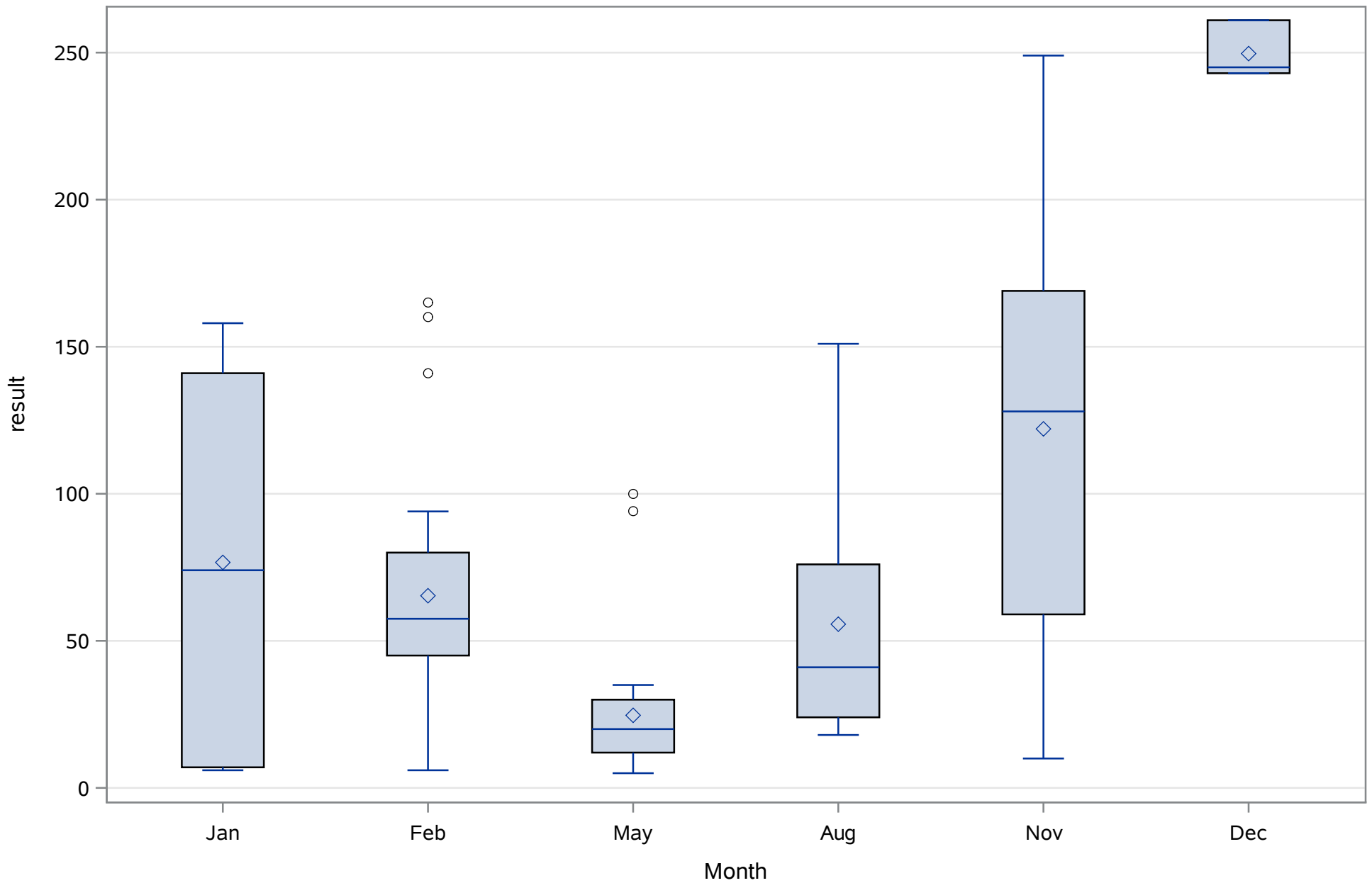
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
DO_mgL



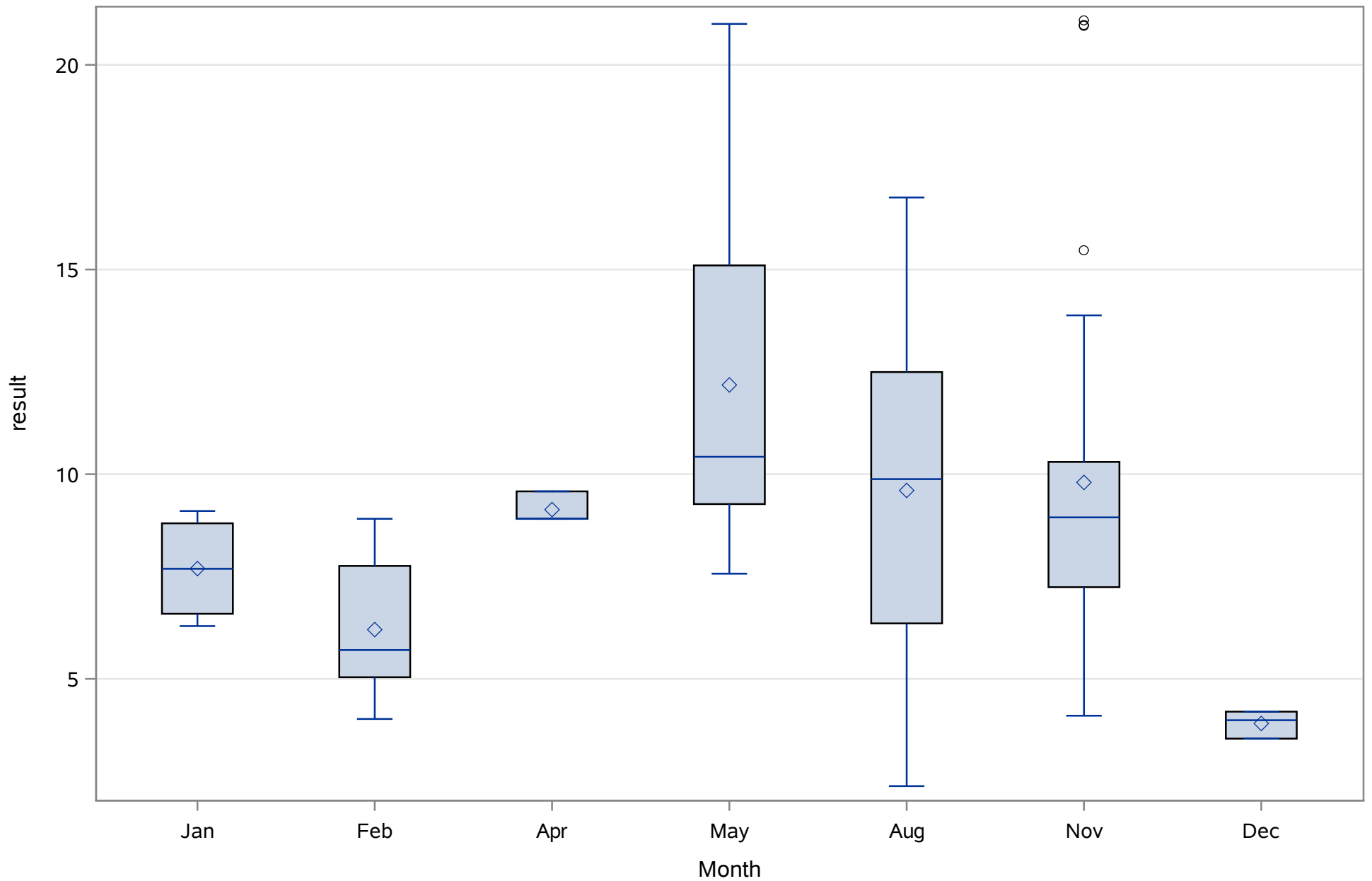
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NH4_ugl



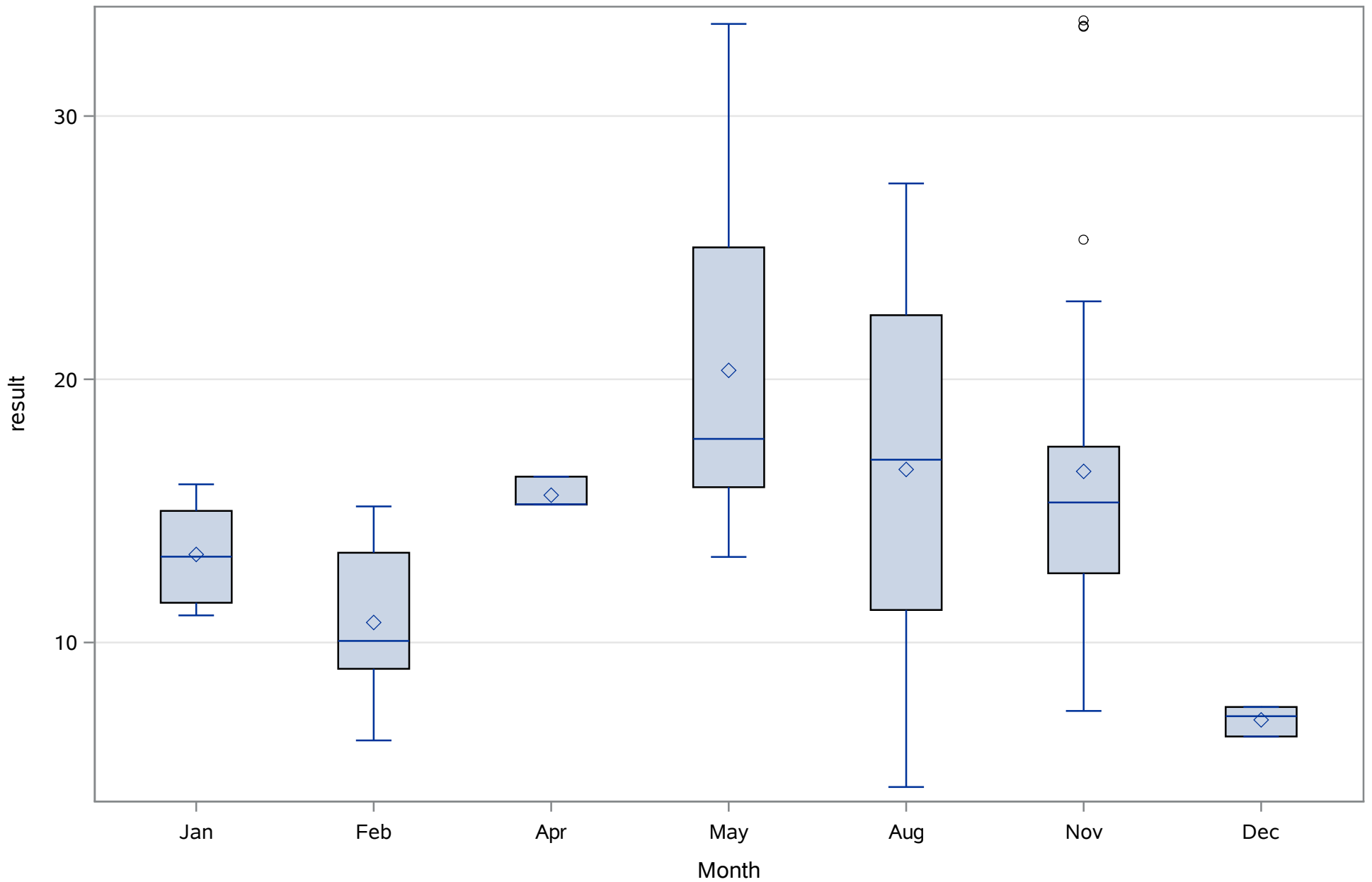
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
NO3_ugL



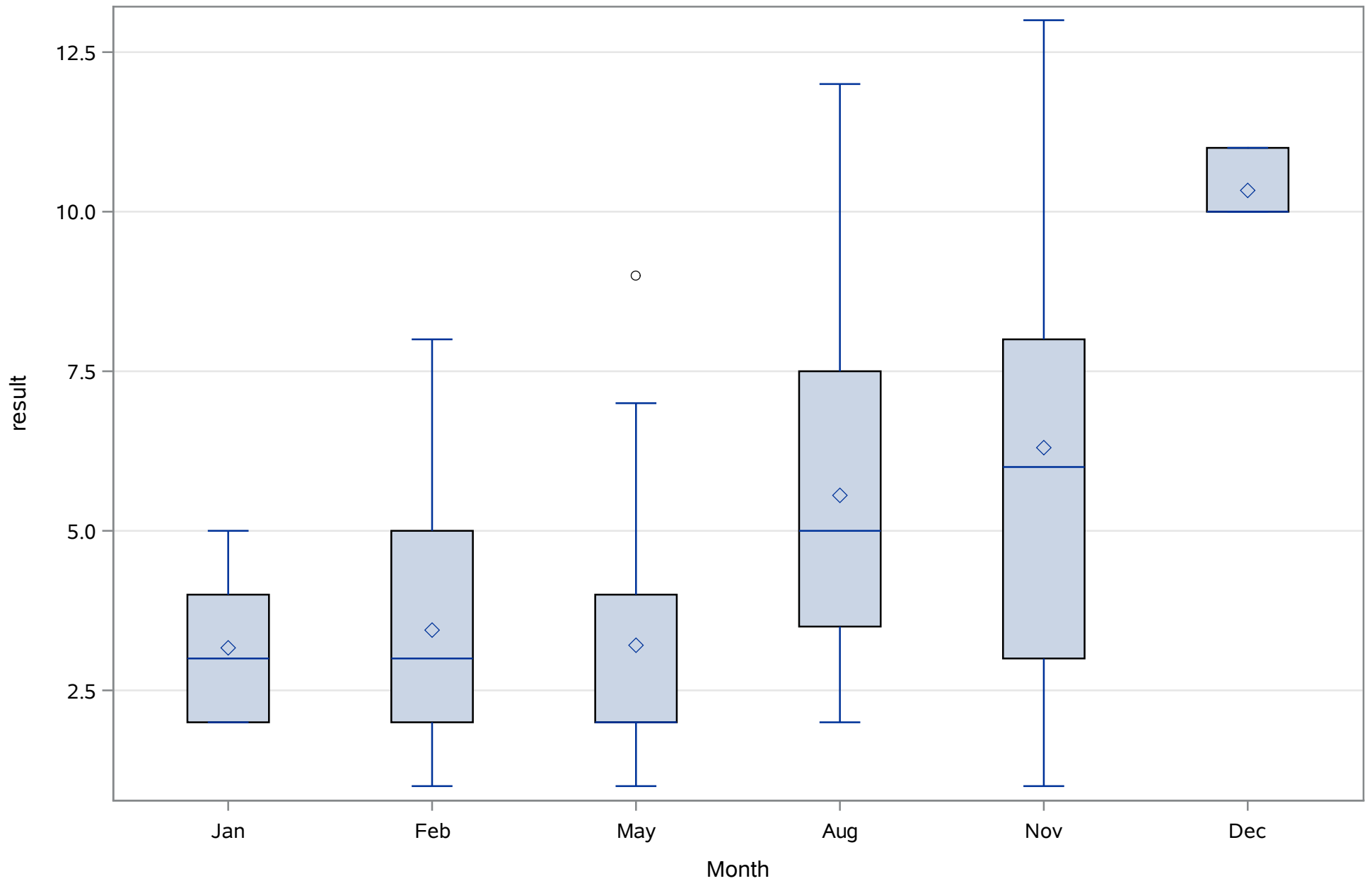
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SAL_Perc



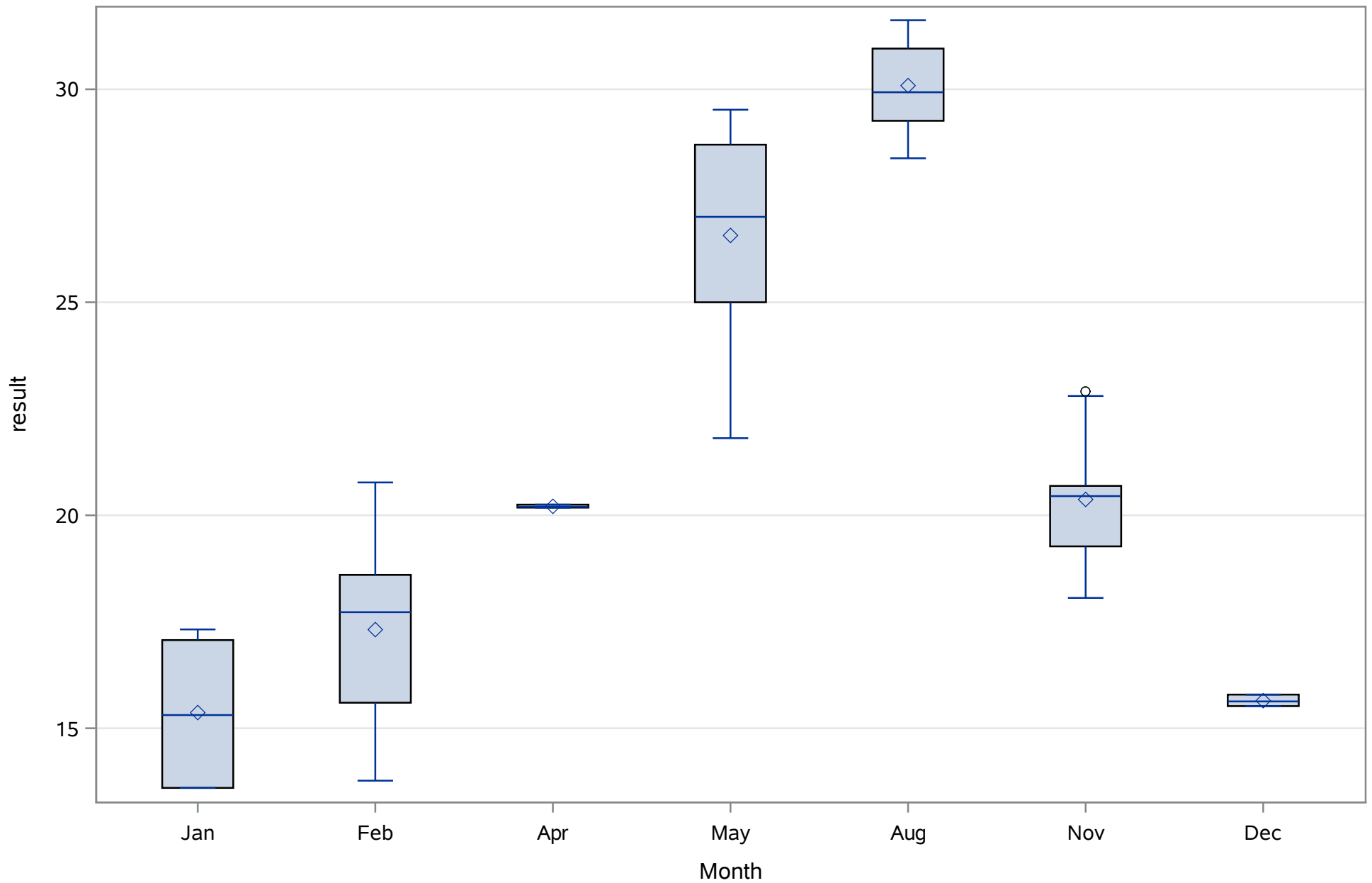
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SPCOND_mS_cm



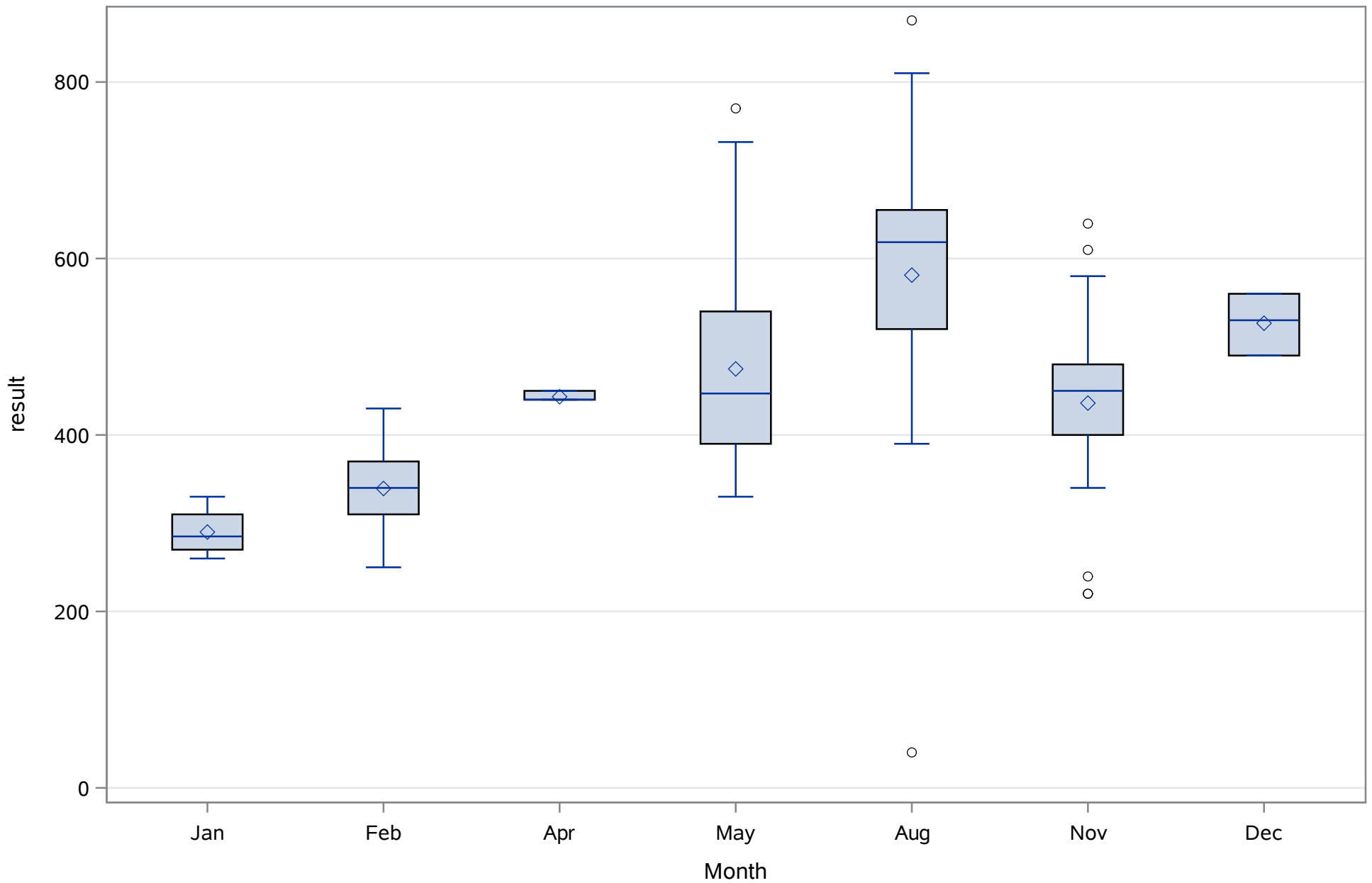
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
SRP_ugL



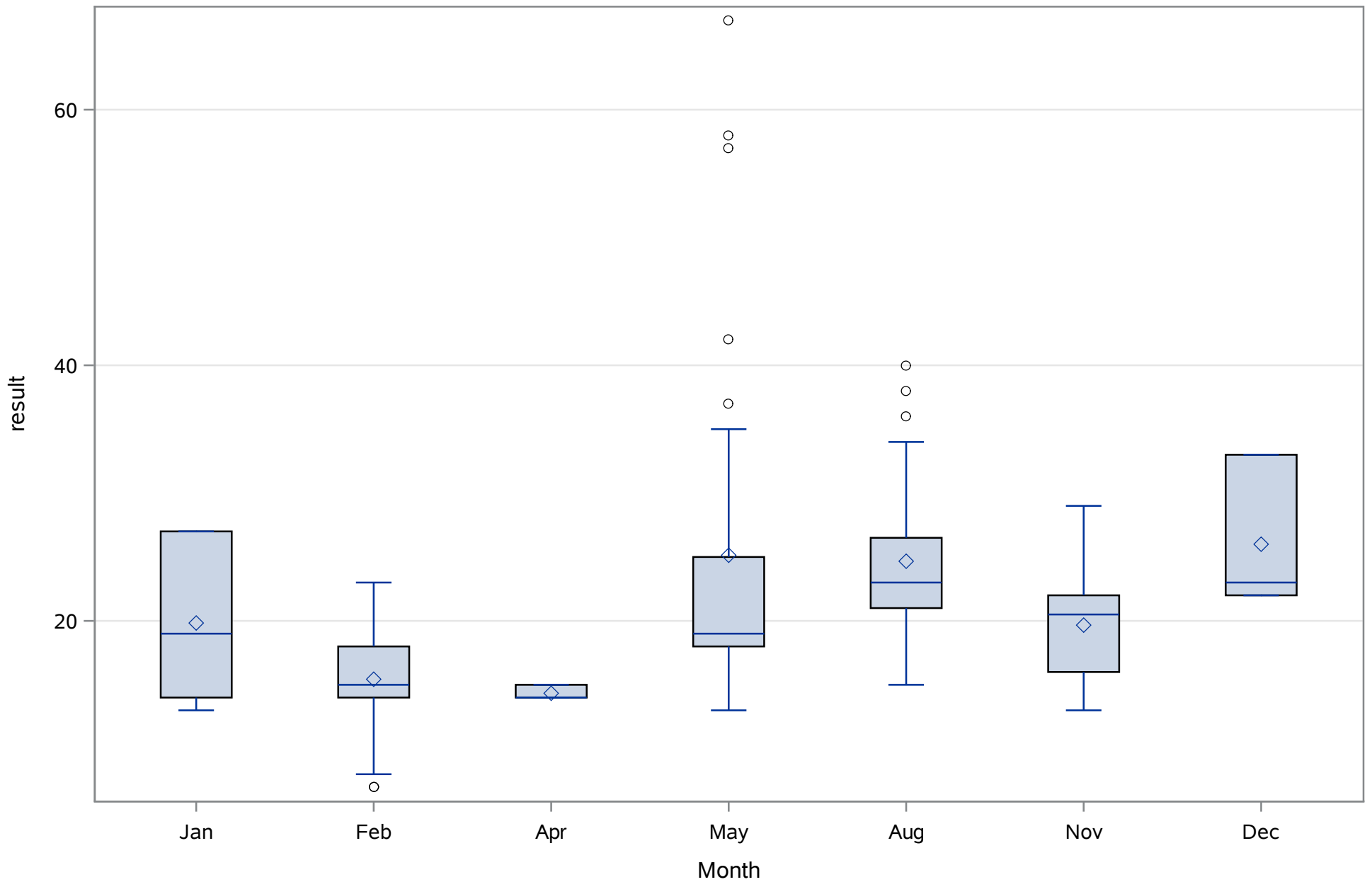
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TEMP_C



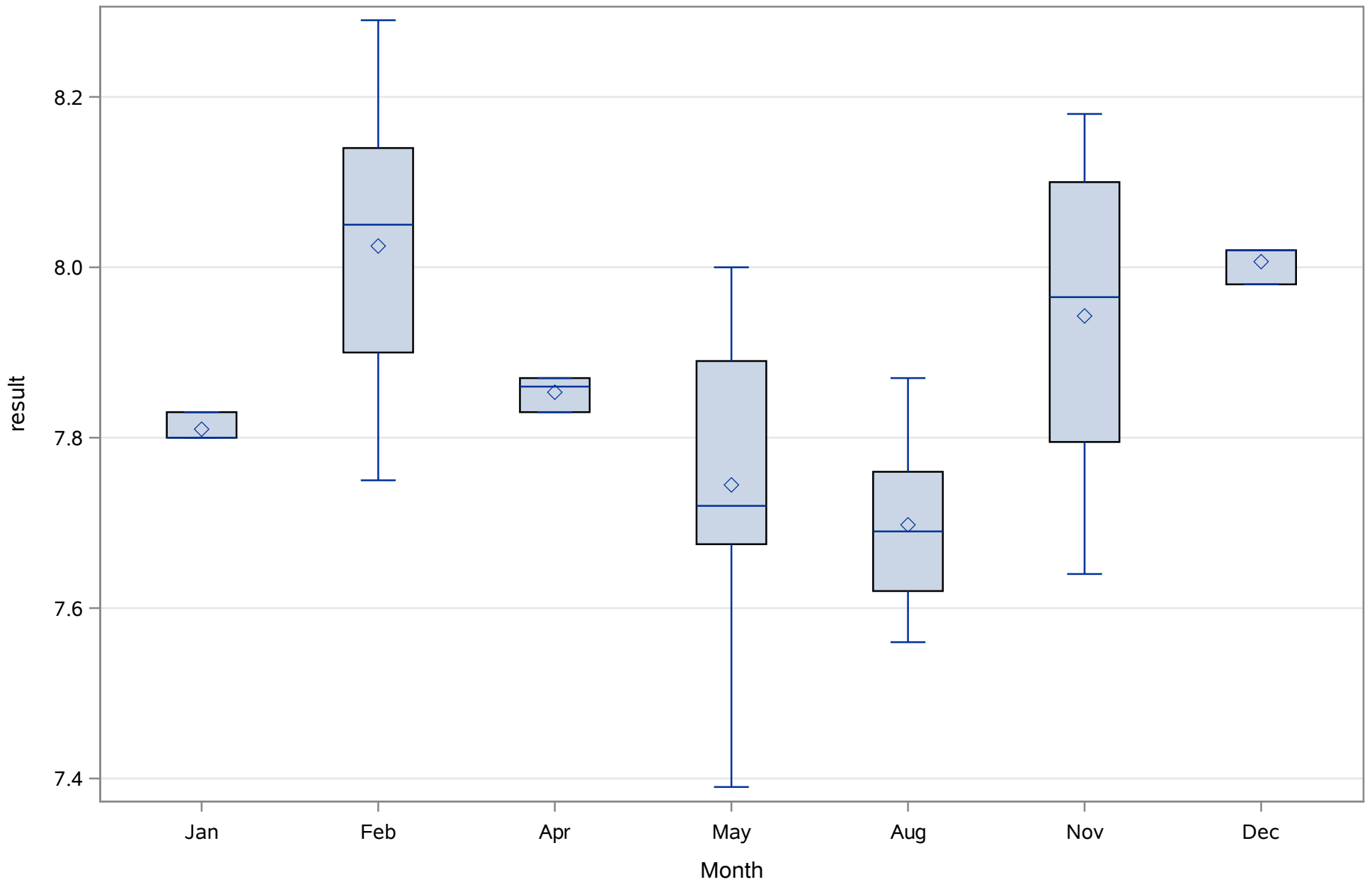
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TN_ugl



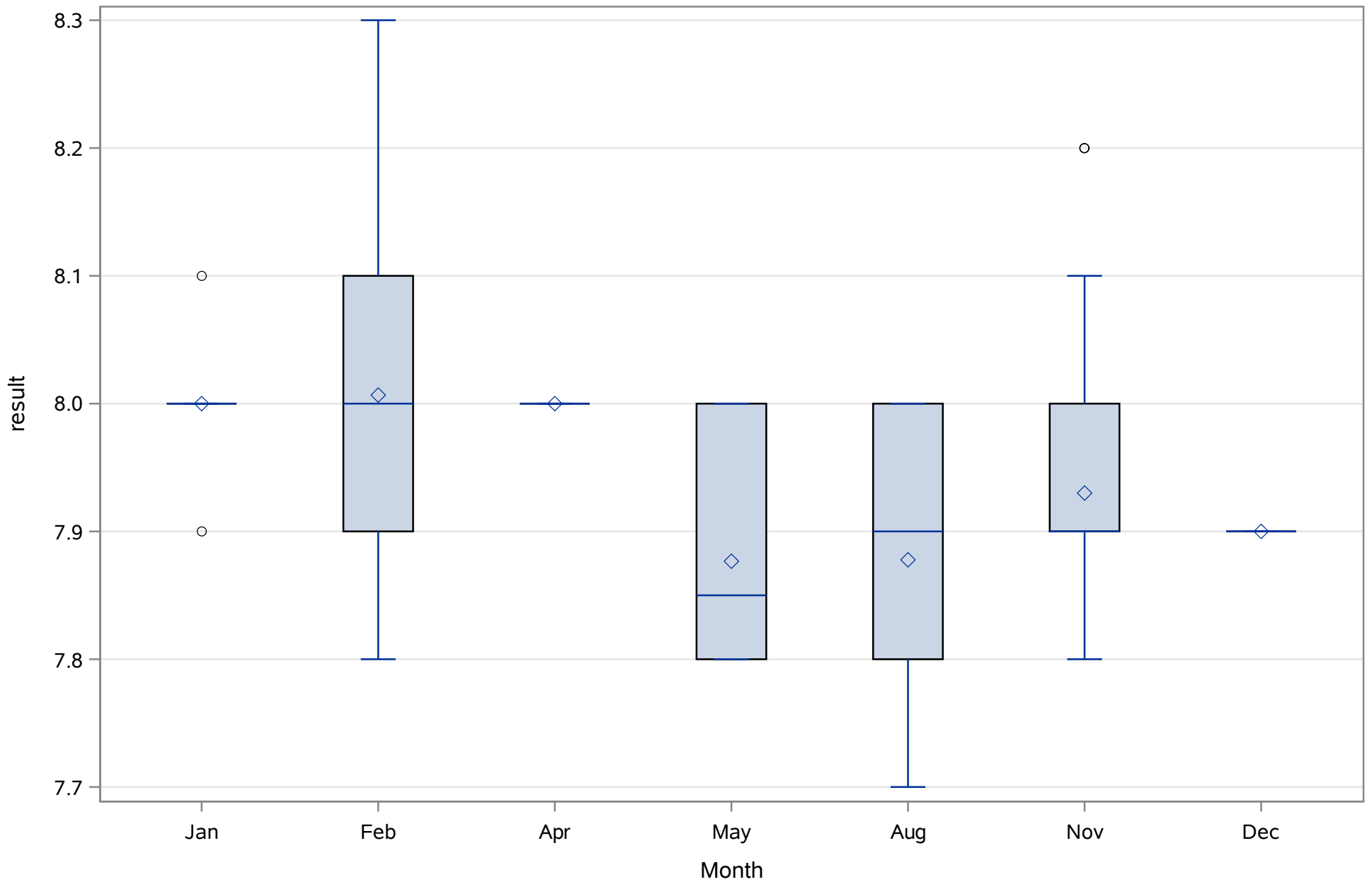
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 15
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	24	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	44	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	46	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	36	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	46	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	168.565217	Sum Observations	7754
Std Deviation	8.85852301	Variance	78.47343
Skewness	-0.2201778	Kurtosis	0.35177004
Uncorrected SS	1310586	Corrected SS	3531.30435
Coeff Variation	5.25524966	Std Error Mean	1.30611796

Basic Statistical Measures			
Location		Variability	
Mean	168.5652	Std Deviation	8.85852
Median	169.0000	Variance	78.47343
Mode	168.0000	Range	43.00000
		Interquartile Range	10.00000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	129.0582	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	190
99%	190
95%	182
90%	180
75% Q3	174
50% Median	169
25% Q1	164
10%	156
5%	153

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

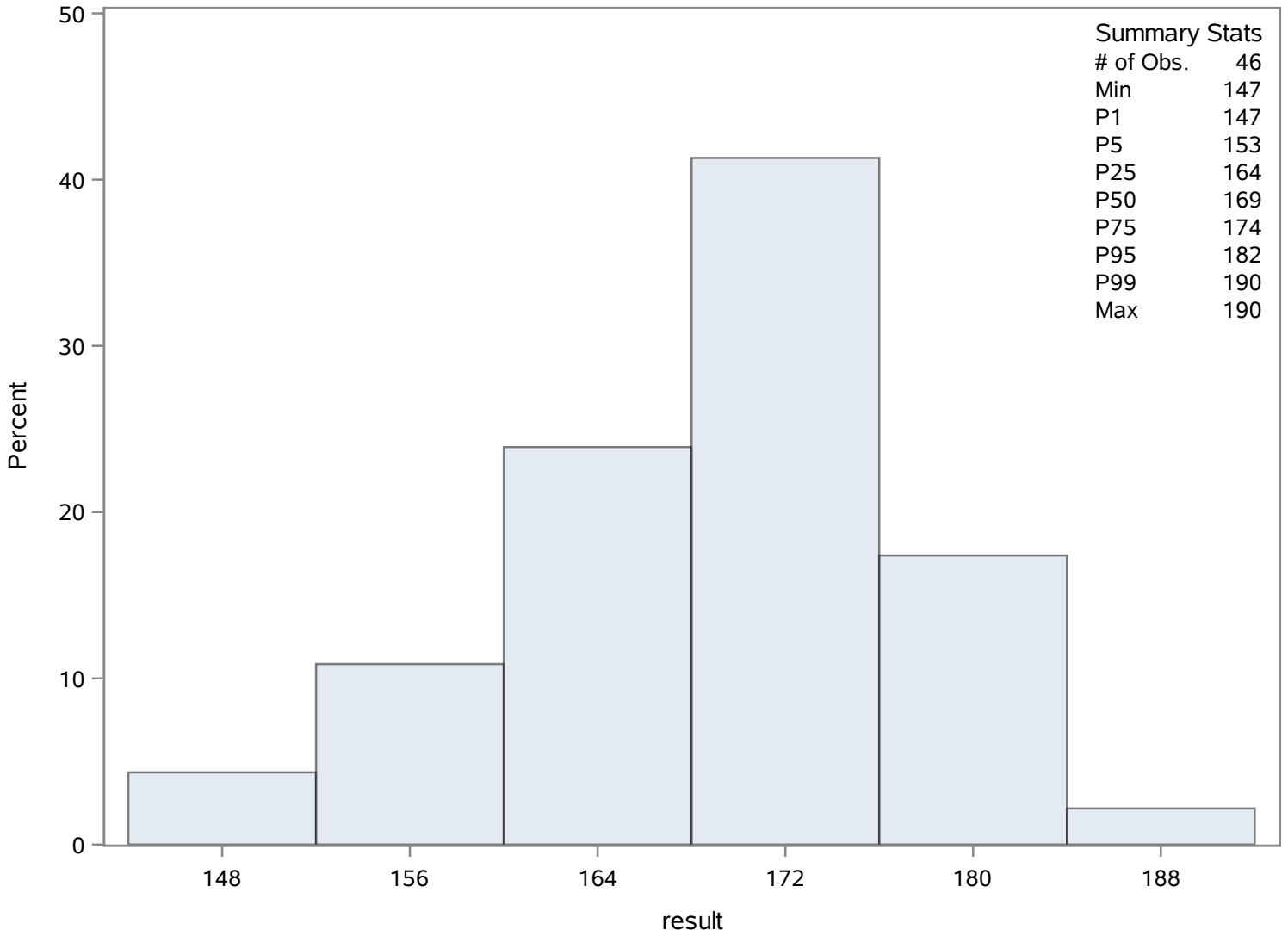
Quantiles (Definition 5)	
Level	Quantile
1%	147
0% Min	147

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
147	15	180	34
149	21	182	13
153	11	182	37
155	12	182	43
156	7	190	38

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	4.0747976	Sum Observations	187.44069
Std Deviation	3.29267385	Variance	10.8417011
Skewness	3.59972702	Kurtosis	17.4890427
Uncorrected SS	1251.65942	Corrected SS	487.87655
Coeff Variation	80.8058258	Std Error Mean	0.48547827

Basic Statistical Measures			
Location		Variability	
Mean	4.074798	Std Deviation	3.29267
Median	3.050000	Variance	10.84170
Mode	3.400000	Range	20.86000
		Interquartile Range	2.66000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.393368	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21.56000
99%	21.56000
95%	8.28000
90%	6.50000
75% Q3	5.06000
50% Median	3.05000
25% Q1	2.40000
10%	1.79000
5%	1.24138
1%	0.70000
0% Min	0.70000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_Uncor_ugL

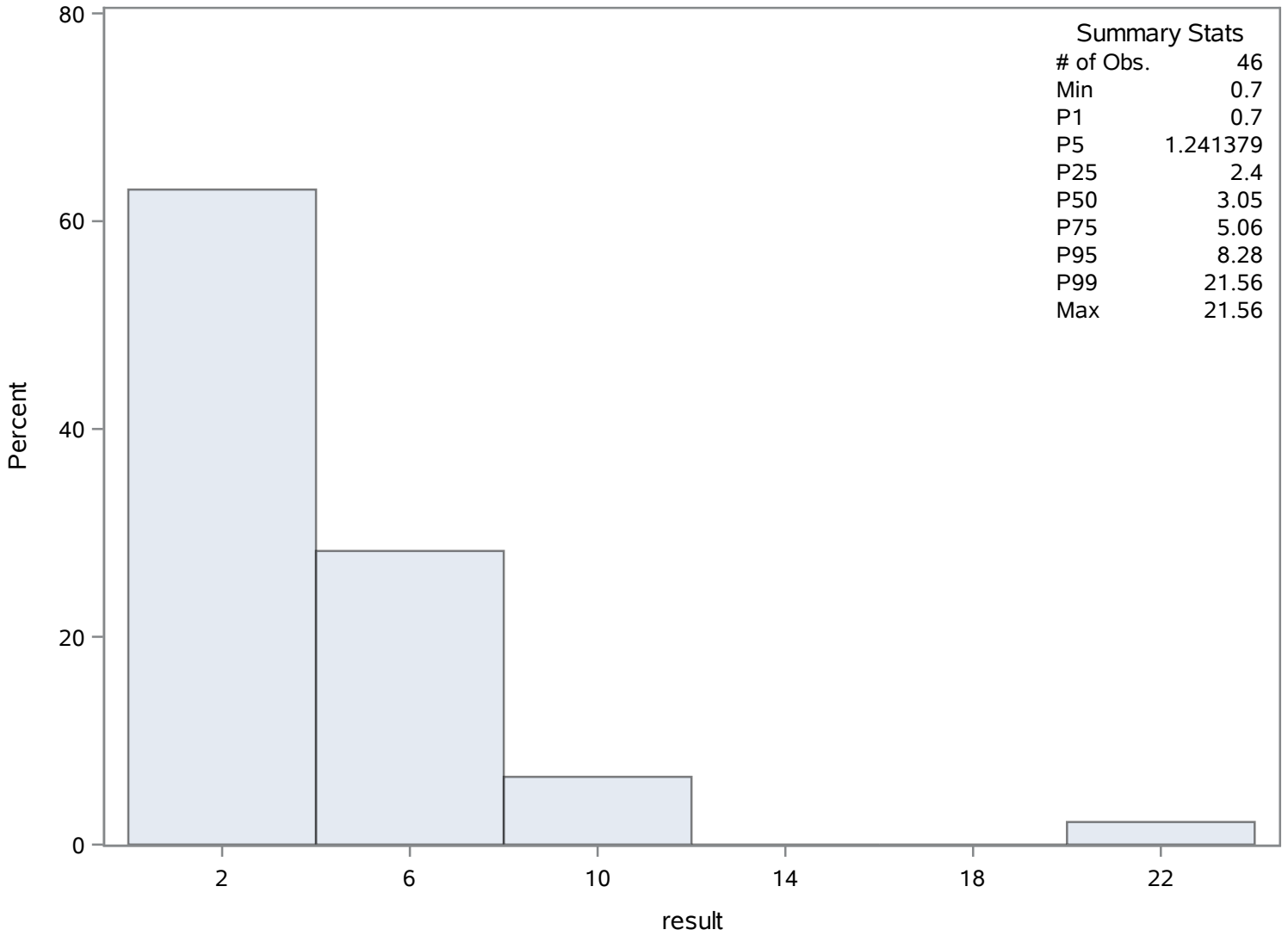
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.70000	69	6.50	60
0.97000	89	8.10	68
1.24138	70	8.28	87
1.50000	51	9.93	84
1.79000	47	21.56	83

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	3.83140633	Sum Observations	91.953752
Std Deviation	3.95354054	Variance	15.6304828
Skewness	3.35636409	Kurtosis	13.4306763
Uncorrected SS	711.813292	Corrected SS	359.501104
Coeff Variation	103.187712	Std Error Mean	0.80701308

Basic Statistical Measures			
Location		Variability	
Mean	3.831406	Std Deviation	3.95354
Median	2.346204	Variance	15.63048
Mode	1.680000	Range	19.55000
		Interquartile Range	2.62569

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4.747638	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	20.220000
99%	20.220000
95%	8.380000
90%	6.480000
75% Q3	4.414480
50% Median	2.346204
25% Q1	1.788792
10%	1.340000
5%	0.782068

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

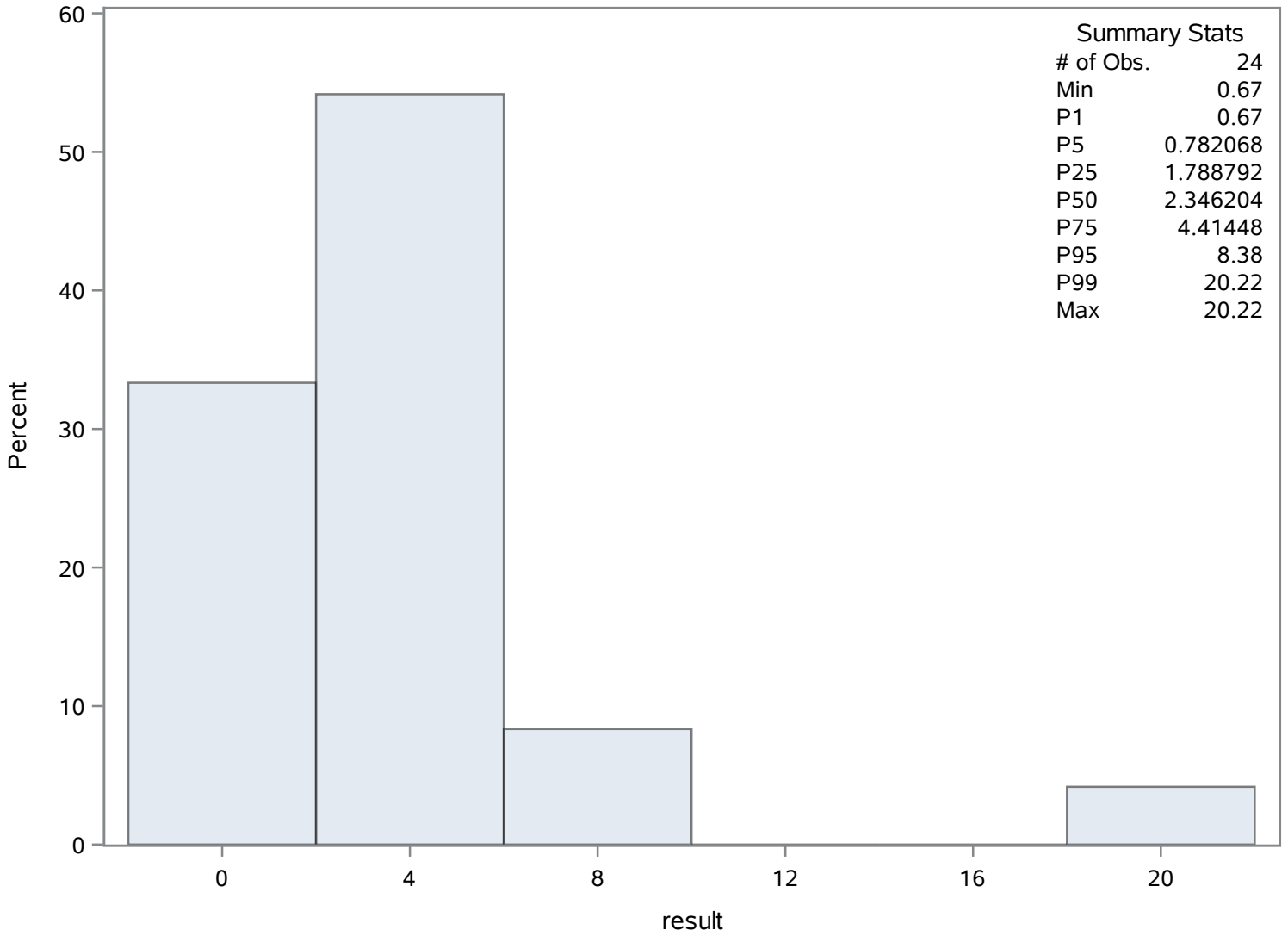
Quantiles (Definition 5)	
Level	Quantile
1%	0.670000
0% Min	0.670000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.670000	113	4.69241	96
0.782068	94	4.69241	104
1.340000	93	6.48000	111
1.680000	109	8.38000	108
1.680000	106	20.22000	107

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	26.4130435	Sum Observations	1215
Std Deviation	10.5695077	Variance	111.714493
Skewness	1.00480349	Kurtosis	0.76311216
Uncorrected SS	37119	Corrected SS	5027.15217
Coeff Variation	40.0162431	Std Error Mean	1.55838889

Basic Statistical Measures			
Location		Variability	
Mean	26.41304	Std Deviation	10.56951
Median	24.50000	Variance	111.71449
Mode	16.00000	Range	44.00000
		Interquartile Range	15.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.94894	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	58.0
99%	58.0
95%	47.0
90%	40.0
75% Q3	33.0
50% Median	24.5
25% Q1	18.0
10%	15.0
5%	14.0
1%	14.0
0% Min	14.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
COLOR_PtCo

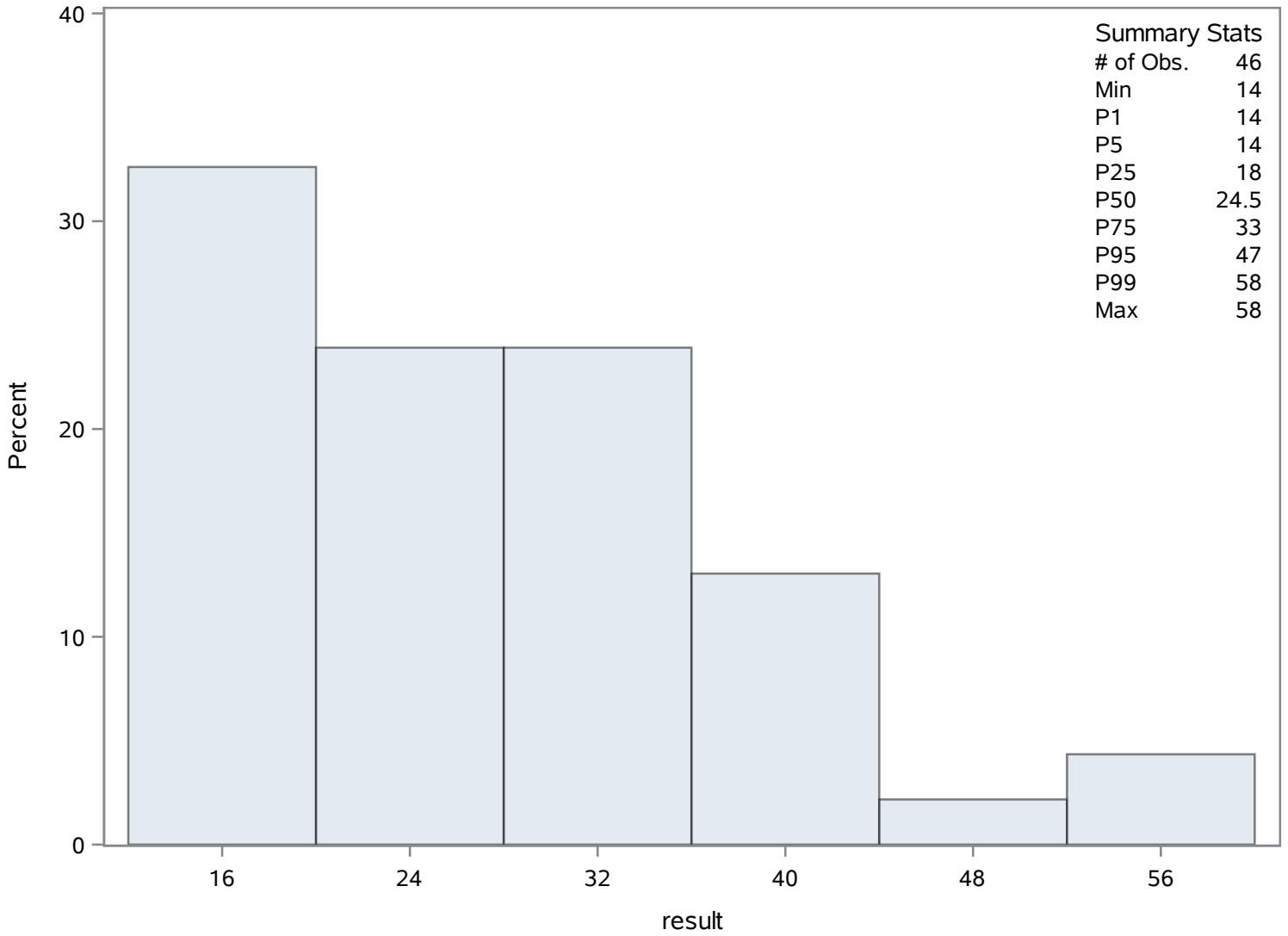
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
14	159	40	138
14	152	41	161
14	143	47	157
15	144	52	130
15	139	58	146

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	6.46152174	Sum Observations	297.23
Std Deviation	1.89067885	Variance	3.57466652
Skewness	0.27020041	Kurtosis	-0.8031929
Uncorrected SS	2081.4181	Corrected SS	160.859993
Coeff Variation	29.2605818	Std Error Mean	0.27876539

Basic Statistical Measures			
Location		Variability	
Mean	6.461522	Std Deviation	1.89068
Median	6.355000	Variance	3.57467
Mode	5.500000	Range	7.58000
		Interquartile Range	3.06000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	23.17907	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.880
99%	10.880
95%	9.390
90%	9.100
75% Q3	8.110
50% Median	6.355
25% Q1	5.050
10%	4.000
5%	3.600

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
DO_mgL

The UNIVARIATE Procedure
Variable: result

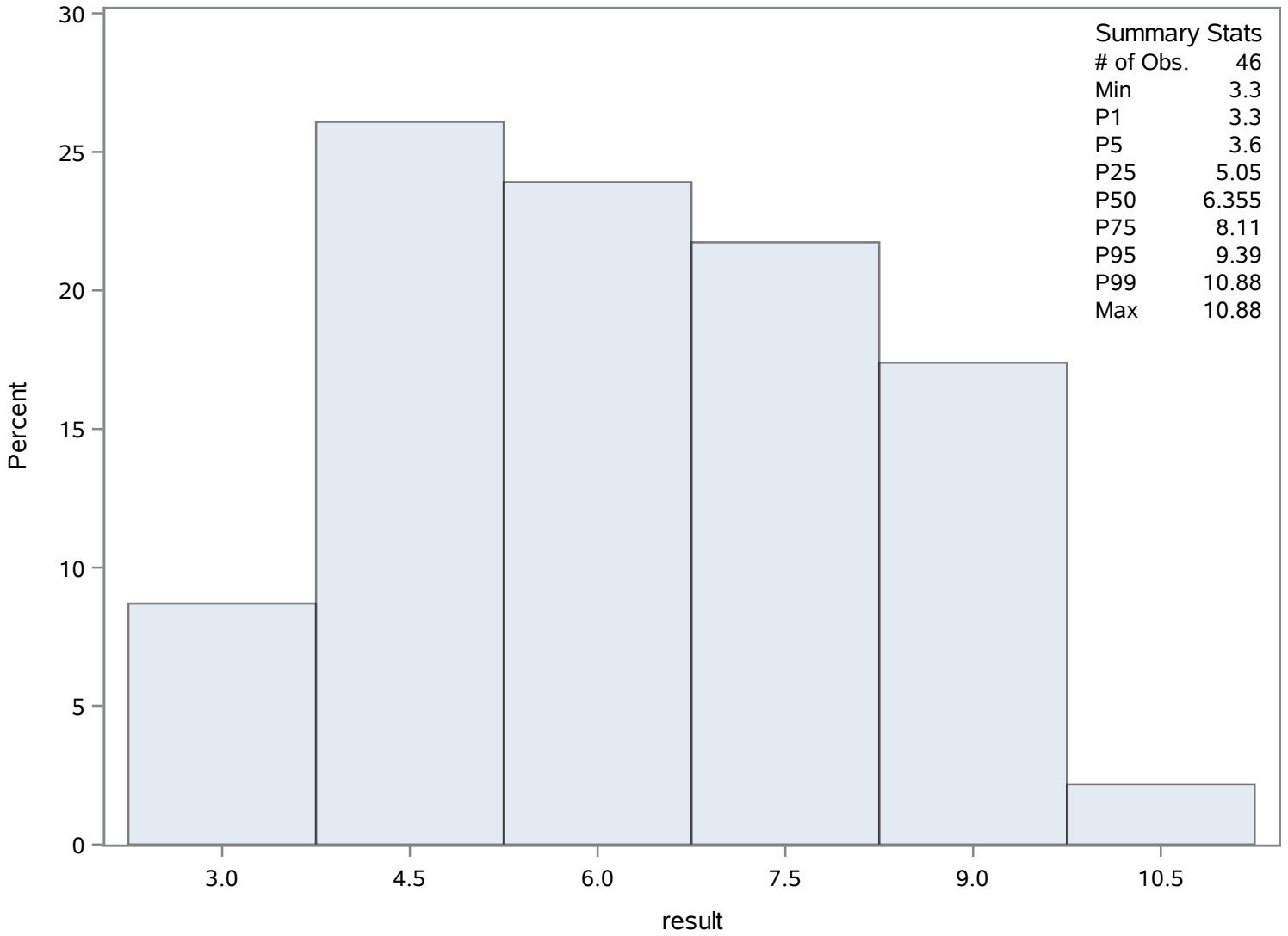
Quantiles (Definition 5)	
Level	Quantile
1%	3.300
0% Min	3.300

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.30	173	9.10	166
3.40	168	9.10	174
3.60	172	9.39	186
3.65	207	9.46	185
4.00	171	10.88	205

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	34.1413043	Sum Observations	1570.5
Std Deviation	24.4945942	Variance	599.985145
Skewness	2.08283552	Kurtosis	7.15031376
Uncorrected SS	80618.25	Corrected SS	26999.3315
Coeff Variation	71.7447522	Std Error Mean	3.61153088

Basic Statistical Measures			
Location		Variability	
Mean	34.14130	Std Deviation	24.49459
Median	33.00000	Variance	599.98514
Mode	36.00000	Range	136.00000
		Interquartile Range	28.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.453416	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	141
99%	141
95%	74
90%	60
75% Q3	45
50% Median	33
25% Q1	17
10%	9
5%	6
1%	5
0% Min	5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NH4_ugl

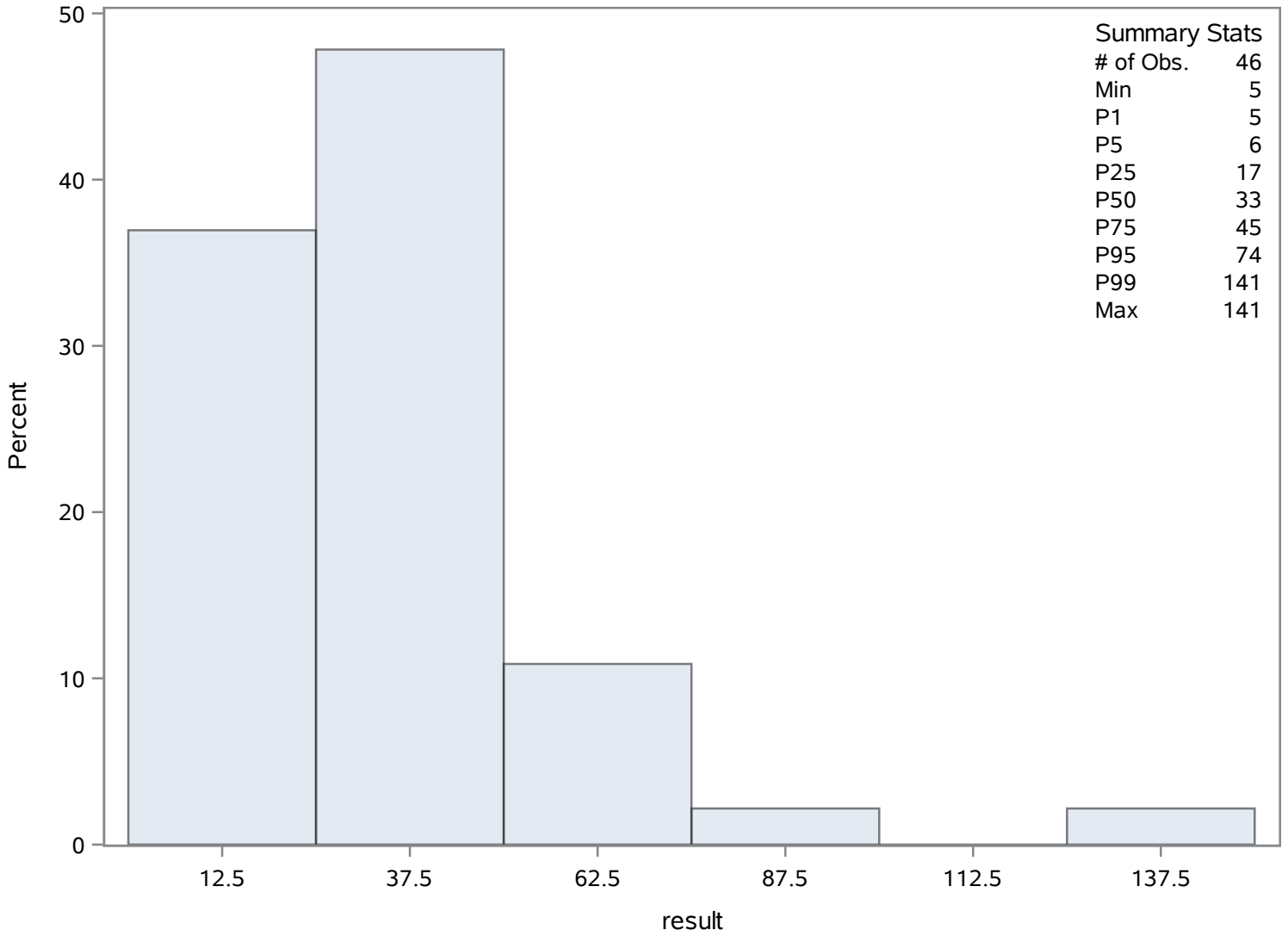
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	231	60	215
5	224	64	245
6	233	74	214
6	219	87	254
9	212	141	211

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	63.7913043	Sum Observations	2934.4
Std Deviation	54.2598187	Variance	2944.12792
Skewness	1.34739795	Kurtosis	1.21440389
Uncorrected SS	319674.96	Corrected SS	132485.757
Coeff Variation	85.0583308	Std Error Mean	8.00017381

Basic Statistical Measures			
Location		Variability	
Mean	63.79130	Std Deviation	54.25982
Median	53.50000	Variance	2944
Mode	20.00000	Range	206.00000
		Interquartile Range	59.00000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.97374	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	214.0
99%	214.0
95%	187.0
90%	144.0
75% Q3	81.0
50% Median	53.5
25% Q1	22.0
10%	17.0
5%	13.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NO3_ugL

The UNIVARIATE Procedure
Variable: result

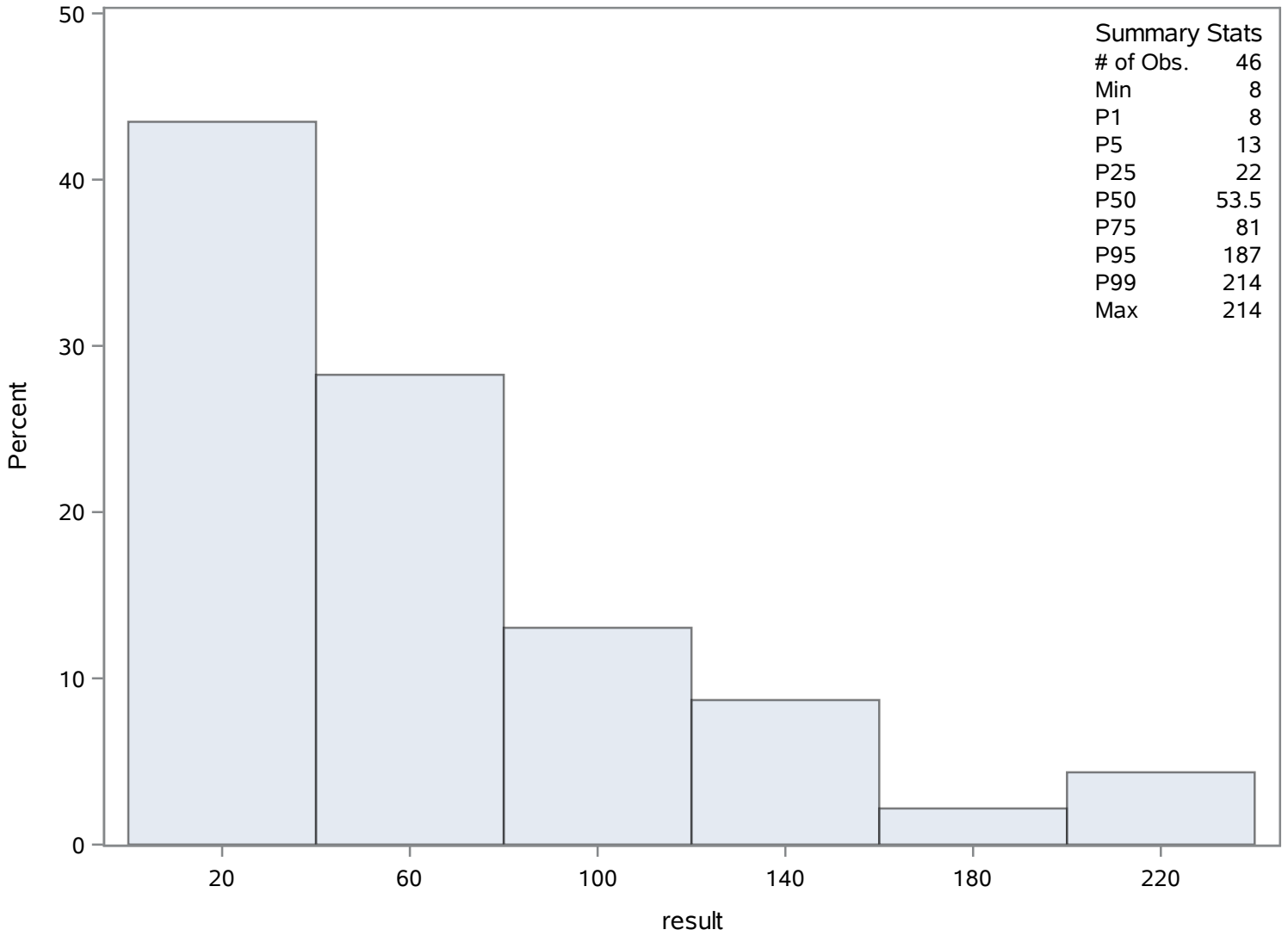
Quantiles (Definition 5)	
Level	Quantile
1%	8.0
0% Min	8.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8	296	144	280
8	295	156	257
13	279	187	273
14	259	214	299
17	289	214	300

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	10.033913	Sum Observations	461.56
Std Deviation	4.13033358	Variance	17.0596555
Skewness	0.88774297	Kurtosis	0.88927364
Uncorrected SS	5398.9374	Corrected SS	767.684496
Coeff Variation	41.163737	Std Error Mean	0.60898446

Basic Statistical Measures			
Location		Variability	
Mean	10.03391	Std Deviation	4.13033
Median	9.46500	Variance	17.05966
Mode	.	Range	18.92000
		Interquartile Range	3.16000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.47647	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21.580
99%	21.580
95%	18.100
90%	15.040
75% Q3	11.060
50% Median	9.465
25% Q1	7.900
10%	5.380
5%	4.600
1%	2.660
0% Min	2.660

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SAL_Perc

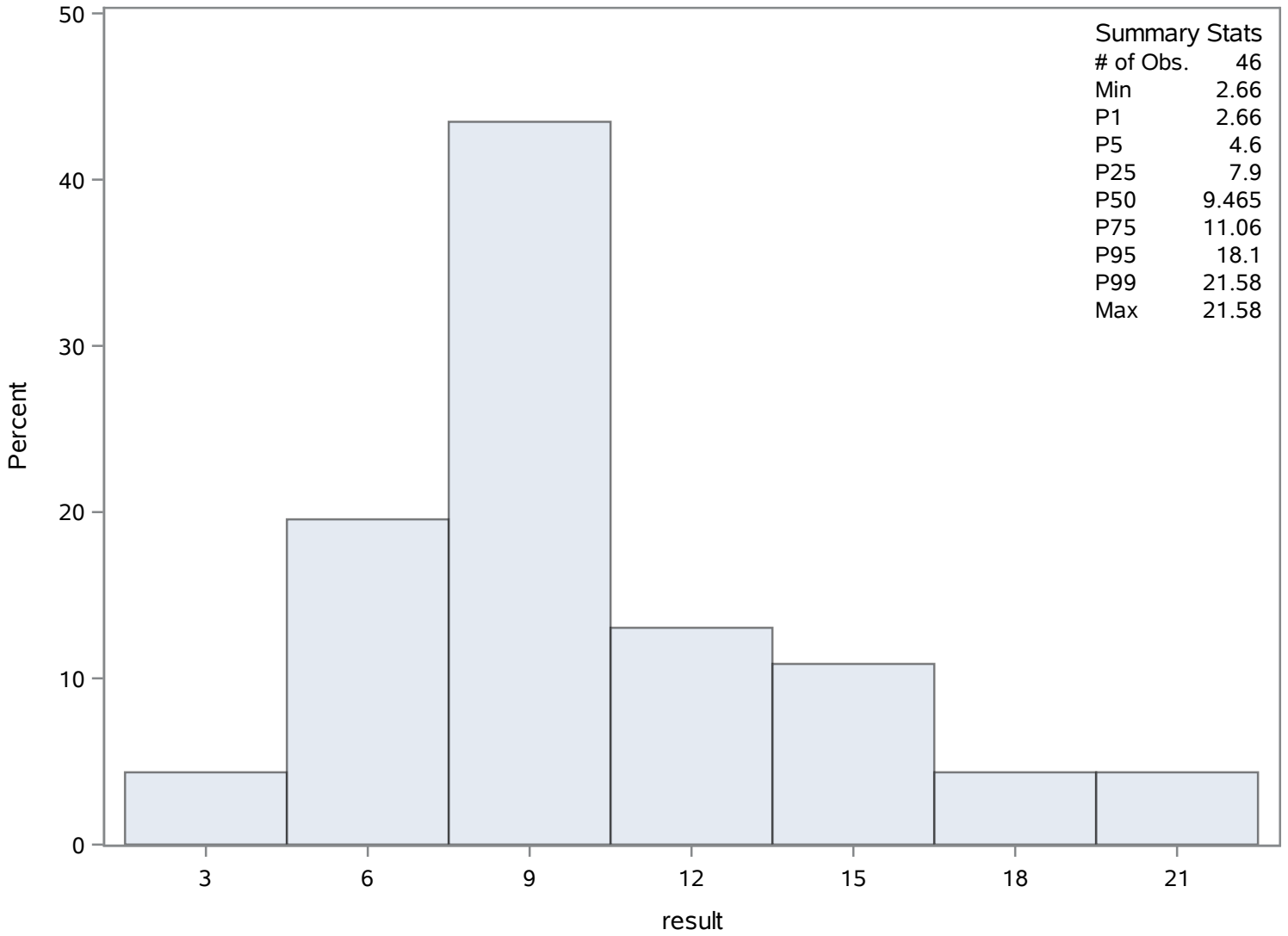
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.66	314	15.04	315
4.19	322	16.87	334
4.60	303	18.10	305
4.61	312	20.63	339
5.38	323	21.58	329

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	16.9419565	Sum Observations	779.33
Std Deviation	6.55012286	Variance	42.9041094
Skewness	0.72592917	Kurtosis	0.4657228
Uncorrected SS	15134.0599	Corrected SS	1930.68492
Coeff Variation	38.6621394	Std Error Mean	0.96576293

Basic Statistical Measures			
Location		Variability	
Mean	16.94196	Std Deviation	6.55012
Median	16.09500	Variance	42.90411
Mode	.	Range	29.37000
		Interquartile Range	6.26000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	17.54256	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	34.360
99%	34.360
95%	29.200
90%	25.030
75% Q3	18.610
50% Median	16.095
25% Q1	12.350
10%	9.540
5%	7.640
1%	4.990
0% Min	4.990

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SPCOND_mS_cm

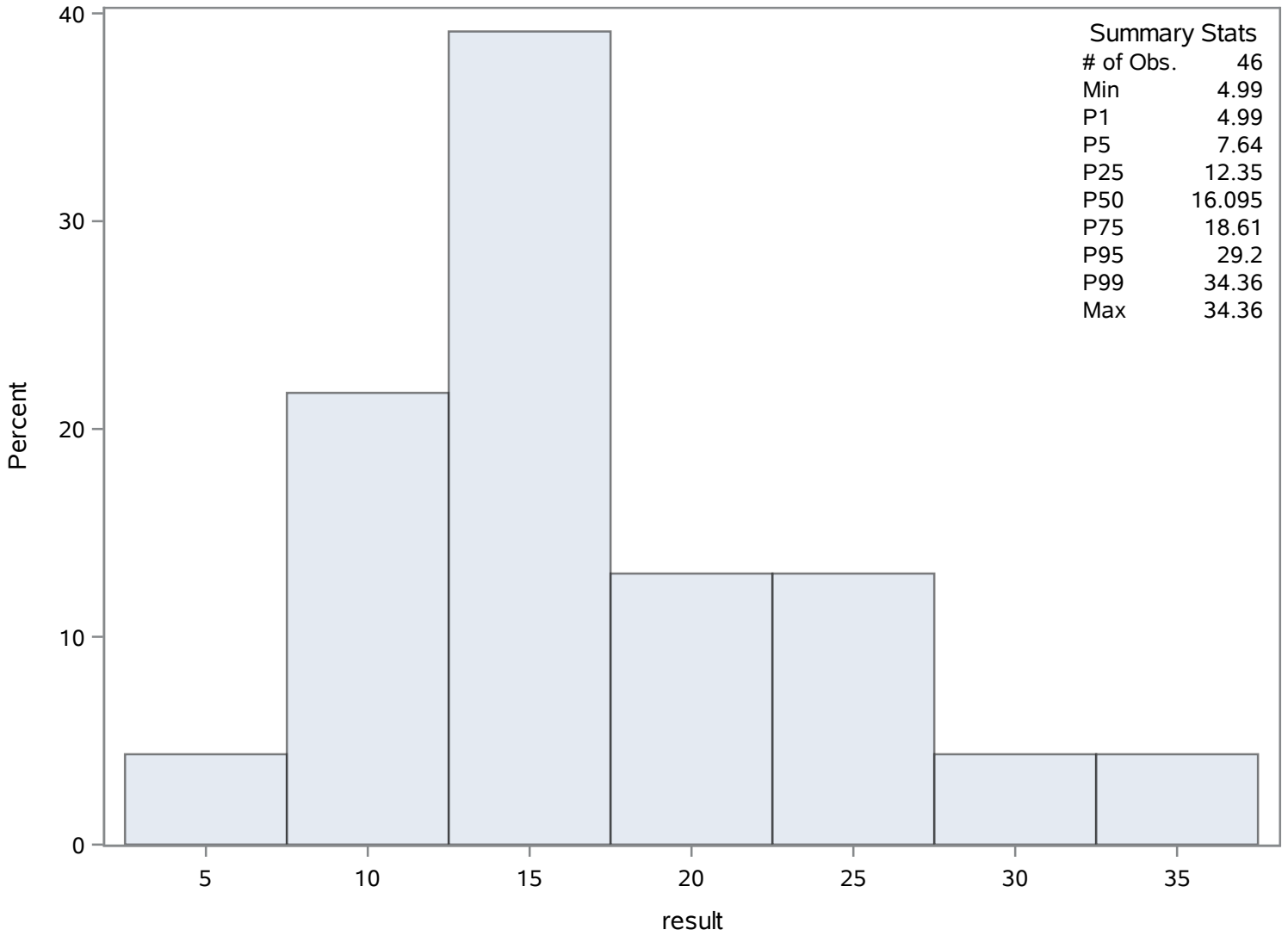
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.99	360	25.03	376
7.09	358	27.59	380
7.64	368	29.20	351
8.20	349	32.88	385
9.54	369	34.36	375

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	44	Sum Weights	44
Mean	4.11363636	Sum Observations	181
Std Deviation	2.81371978	Variance	7.91701903
Skewness	1.32213341	Kurtosis	1.59319488
Uncorrected SS	1085	Corrected SS	340.431818
Coeff Variation	68.399818	Std Error Mean	0.42418422

Basic Statistical Measures			
Location		Variability	
Mean	4.113636	Std Deviation	2.81372
Median	3.500000	Variance	7.91702
Mode	2.000000	Range	11.00000
		Interquartile Range	3.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.697759	Pr > t 	<.0001
Sign	M	22	Pr >= M 	<.0001
Signed Rank	S	495	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.0
99%	12.0
95%	11.0
90%	7.0
75% Q3	5.5
50% Median	3.5
25% Q1	2.0
10%	1.0
5%	1.0
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SRP_ugL

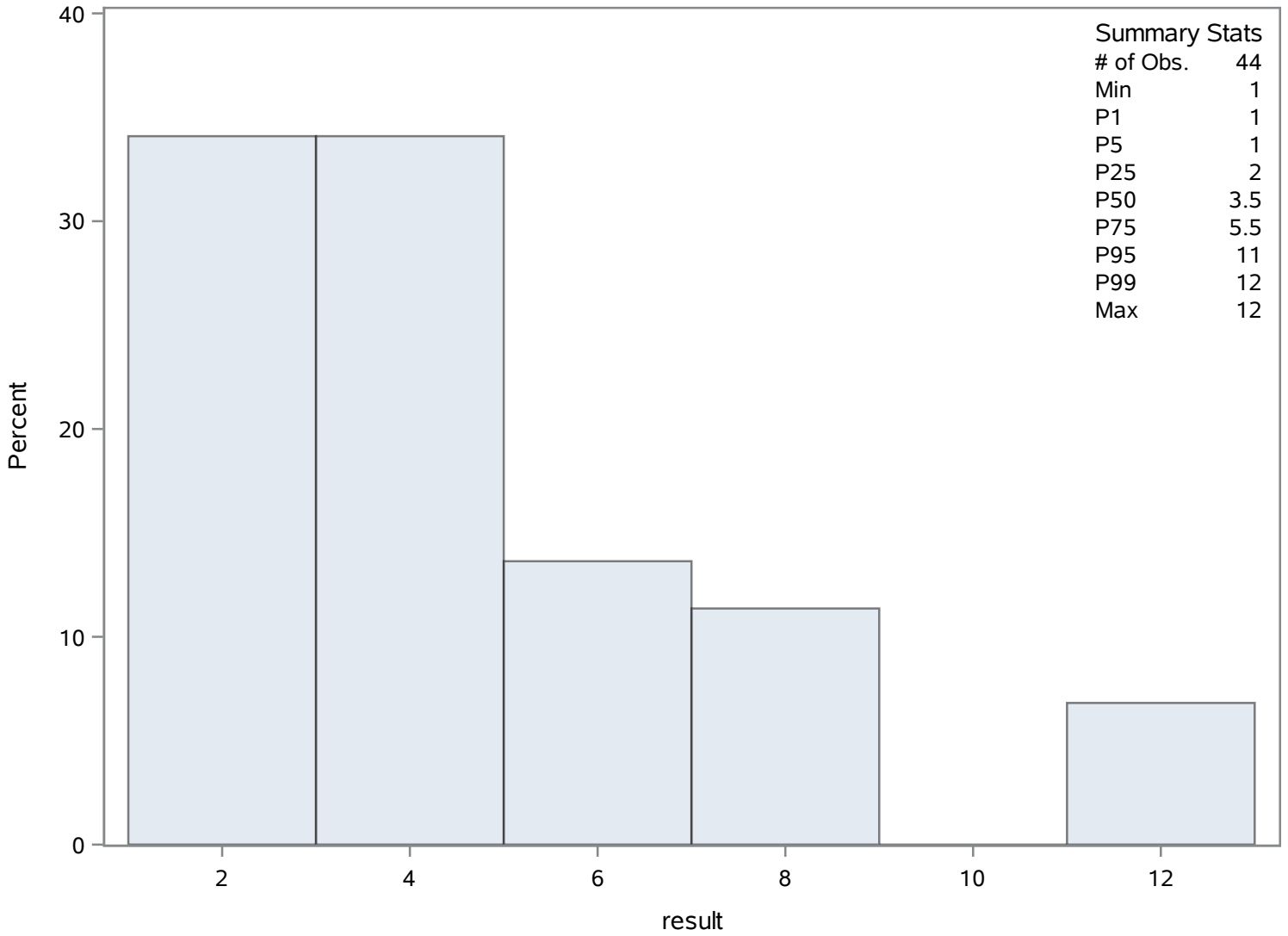
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	416	7	434
1	415	8	394
1	407	11	404
1	405	12	435
1	401	12	436

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	23.1945652	Sum Observations	1066.95
Std Deviation	5.74018765	Variance	32.9497543
Skewness	-0.0020586	Kurtosis	-1.4448447
Uncorrected SS	26230.1803	Corrected SS	1482.73894
Coeff Variation	24.7479856	Std Error Mean	0.8463445

Basic Statistical Measures			
Location		Variability	
Mean	23.19457	Std Deviation	5.74019
Median	21.90500	Variance	32.94975
Mode	.	Range	18.20000
		Interquartile Range	10.59000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	27.40558	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.400
99%	31.400
95%	31.050
90%	30.600
75% Q3	29.290
50% Median	21.905
25% Q1	18.700
10%	15.600
5%	15.380
1%	13.200
0% Min	13.200

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TEMP_C

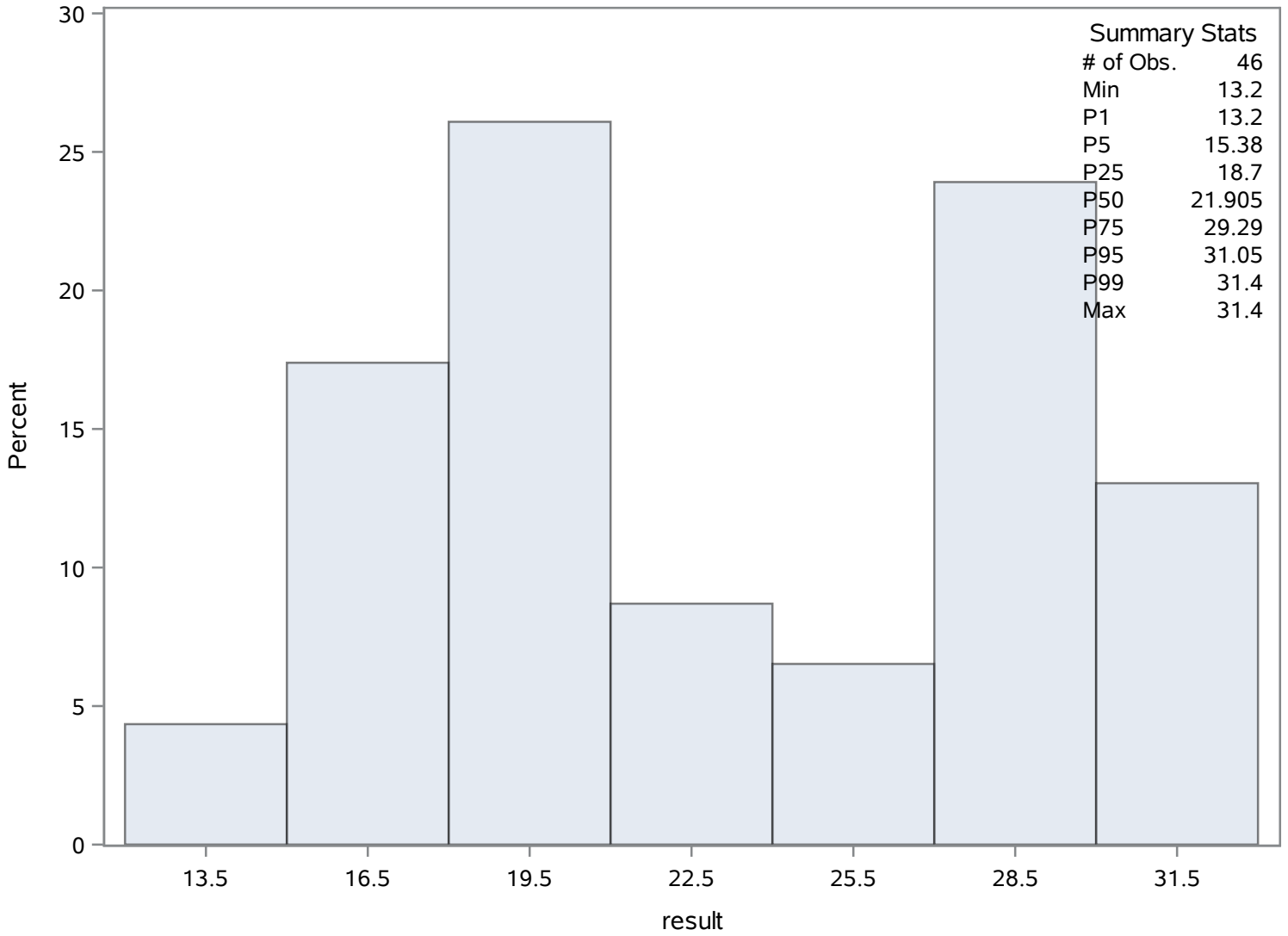
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.20	447	30.60	438
13.54	437	31.00	474
15.38	479	31.05	462
15.41	459	31.37	466
15.60	440	31.40	477

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	459.26087	Sum Observations	21126
Std Deviation	132.820419	Variance	17641.2638
Skewness	0.37135328	Kurtosis	-0.4964149
Uncorrected SS	10496202	Corrected SS	793856.87
Coeff Variation	28.9204738	Std Error Mean	19.5833024

Basic Statistical Measures			
Location		Variability	
Mean	459.2609	Std Deviation	132.82042
Median	430.0000	Variance	17641
Mode	420.0000	Range	560.00000
		Interquartile Range	200.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.45166	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	770
99%	770
95%	670
90%	640
75% Q3	560
50% Median	430
25% Q1	360
10%	310
5%	260
1%	210
0% Min	210

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TN_ugl

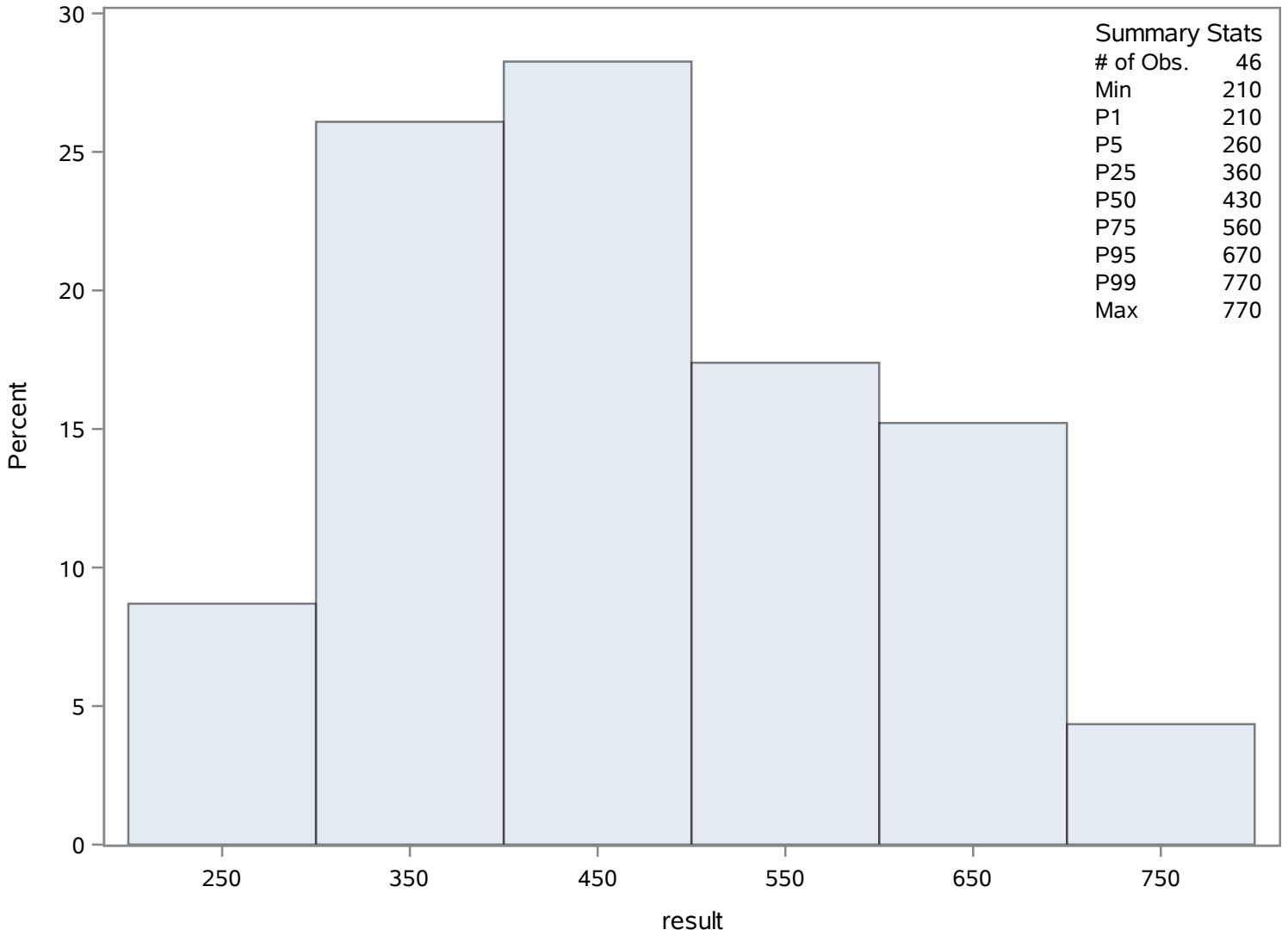
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
210	501	640	496
250	493	650	528
260	525	670	523
260	506	726	519
310	498	770	512

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	19.7826087	Sum Observations	910
Std Deviation	6.9822411	Variance	48.7516908
Skewness	1.35295238	Kurtosis	3.07125419
Uncorrected SS	20196	Corrected SS	2193.82609
Coeff Variation	35.2948451	Std Error Mean	1.02947529

Basic Statistical Measures			
Location		Variability	
Mean	19.78261	Std Deviation	6.98224
Median	19.50000	Variance	48.75169
Mode	20.00000	Range	37.00000
		Interquartile Range	7.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	19.21621	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	42.0
99%	42.0
95%	35.0
90%	26.0
75% Q3	22.0
50% Median	19.5
25% Q1	15.0
10%	13.0
5%	13.0
1%	5.0
0% Min	5.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TP_ugl

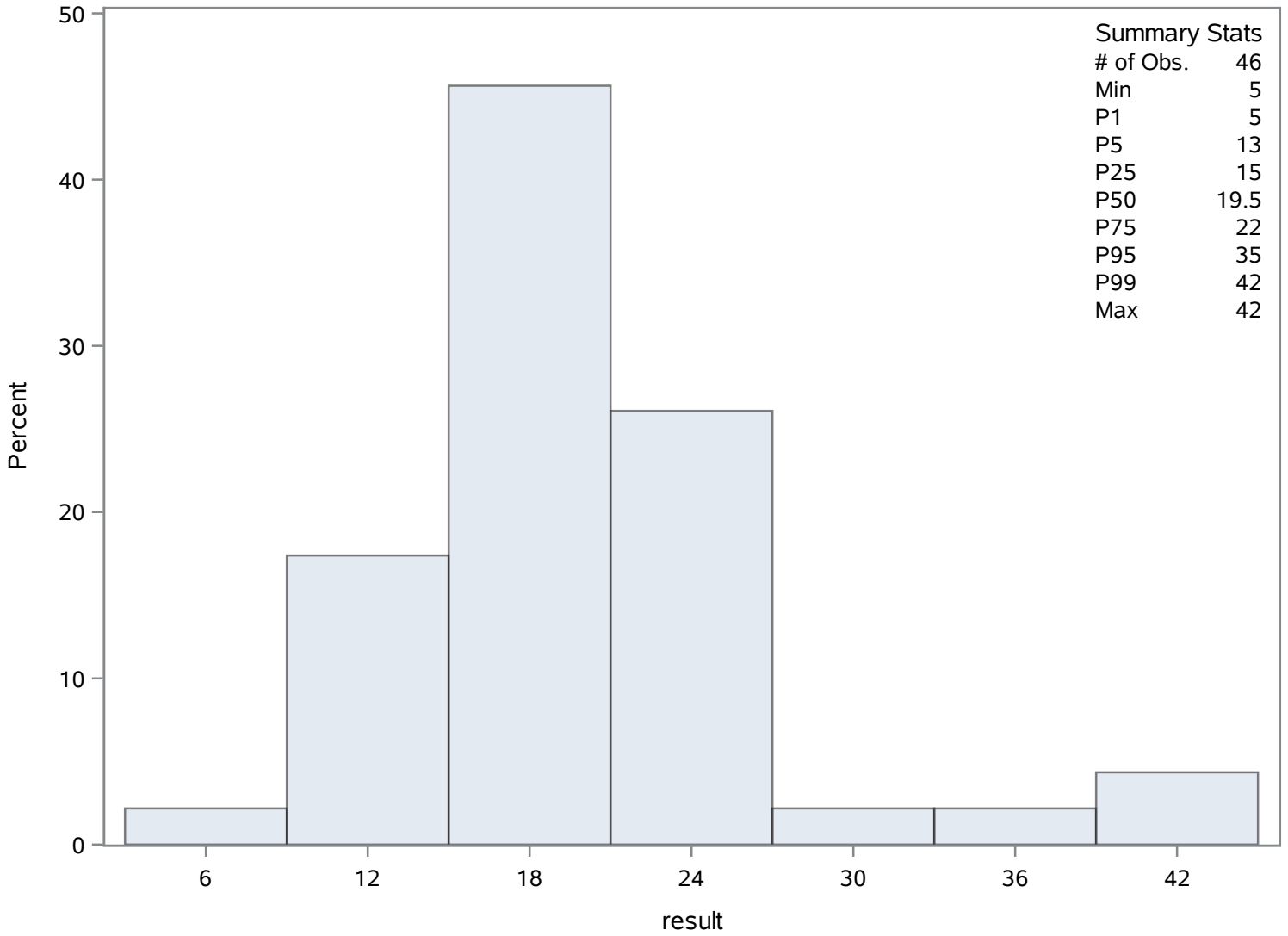
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	571	26	569
11	552	31	566
13	564	35	542
13	555	41	565
13	543	42	568

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	7.85777778	Sum Observations	282.88
Std Deviation	0.20973604	Variance	0.04398921
Skewness	0.04600561	Kurtosis	-0.5531715
Uncorrected SS	2224.3478	Corrected SS	1.53962222
Coeff Variation	2.66915209	Std Error Mean	0.03495601

Basic Statistical Measures			
Location		Variability	
Mean	7.857778	Std Deviation	0.20974
Median	7.830000	Variance	0.04399
Mode	7.570000	Range	0.92000
		Interquartile Range	0.34500

Note: The mode displayed is the smallest of 7 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	224.7905	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.300
99%	8.300
95%	8.160
90%	8.140
75% Q3	8.030
50% Median	7.830
25% Q1	7.685
10%	7.620
5%	7.570

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Field

The UNIVARIATE Procedure
Variable: result

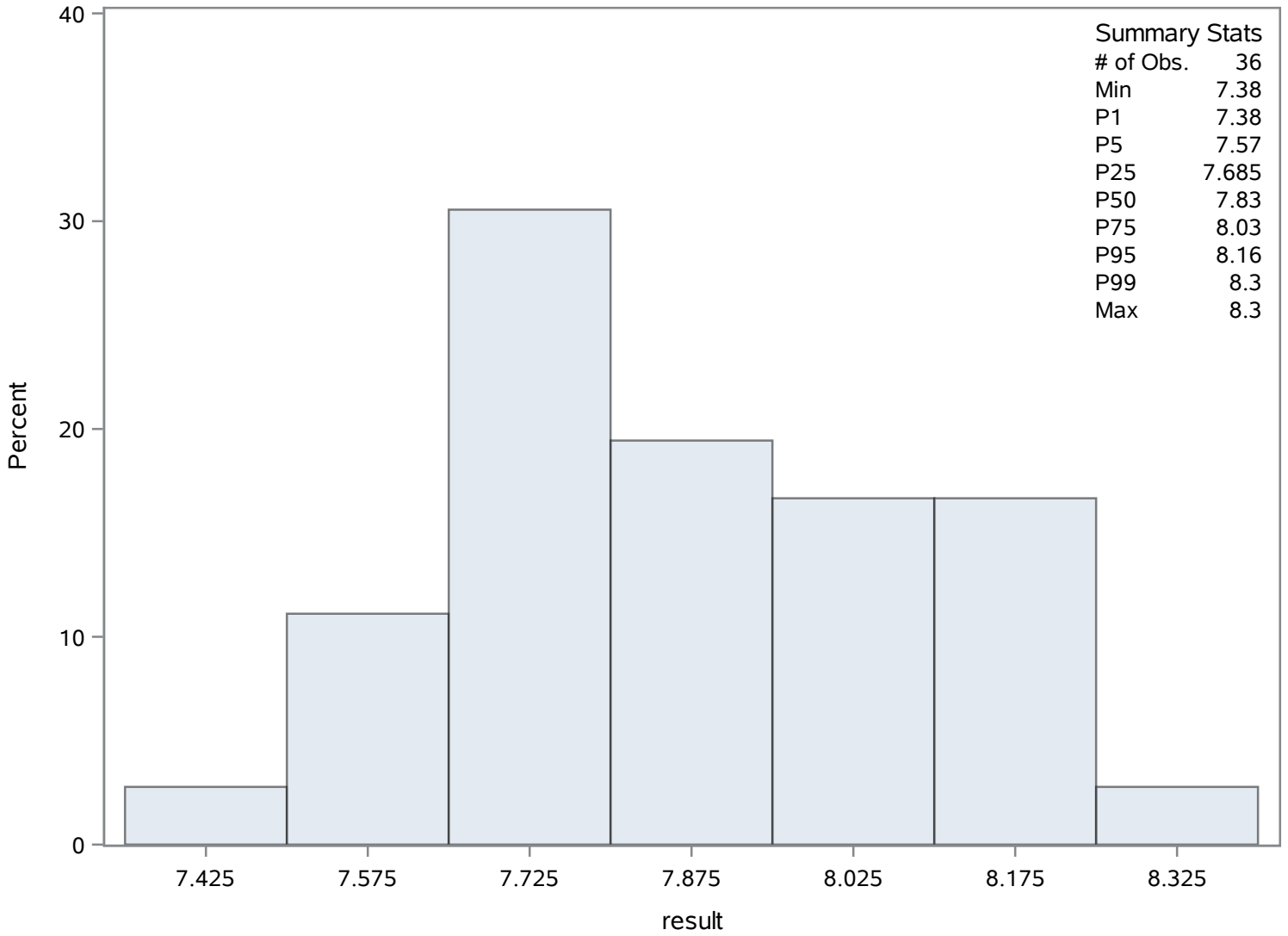
Quantiles (Definition 5)	
Level	Quantile
1%	7.380
0% Min	7.380

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.38	597	8.13	603
7.57	598	8.14	595
7.57	586	8.14	600
7.62	606	8.16	592
7.62	605	8.30	607

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	46	Sum Weights	46
Mean	7.91956522	Sum Observations	364.3
Std Deviation	0.12930509	Variance	0.01671981
Skewness	0.26320525	Kurtosis	0.6449598
Uncorrected SS	2885.85	Corrected SS	0.7523913
Coeff Variation	1.63272968	Std Error Mean	0.019065

Basic Statistical Measures			
Location		Variability	
Mean	7.919565	Std Deviation	0.12931
Median	7.900000	Variance	0.01672
Mode	7.800000	Range	0.70000
		Interquartile Range	0.20000

Note: The mode displayed is the smallest of 2 modes with a count of 14.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	415.3982	Pr > t 	<.0001
Sign	M	23	Pr >= M 	<.0001
Signed Rank	S	540.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.3
99%	8.3
95%	8.1
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.8
5%	7.8

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Lab

The UNIVARIATE Procedure
Variable: result

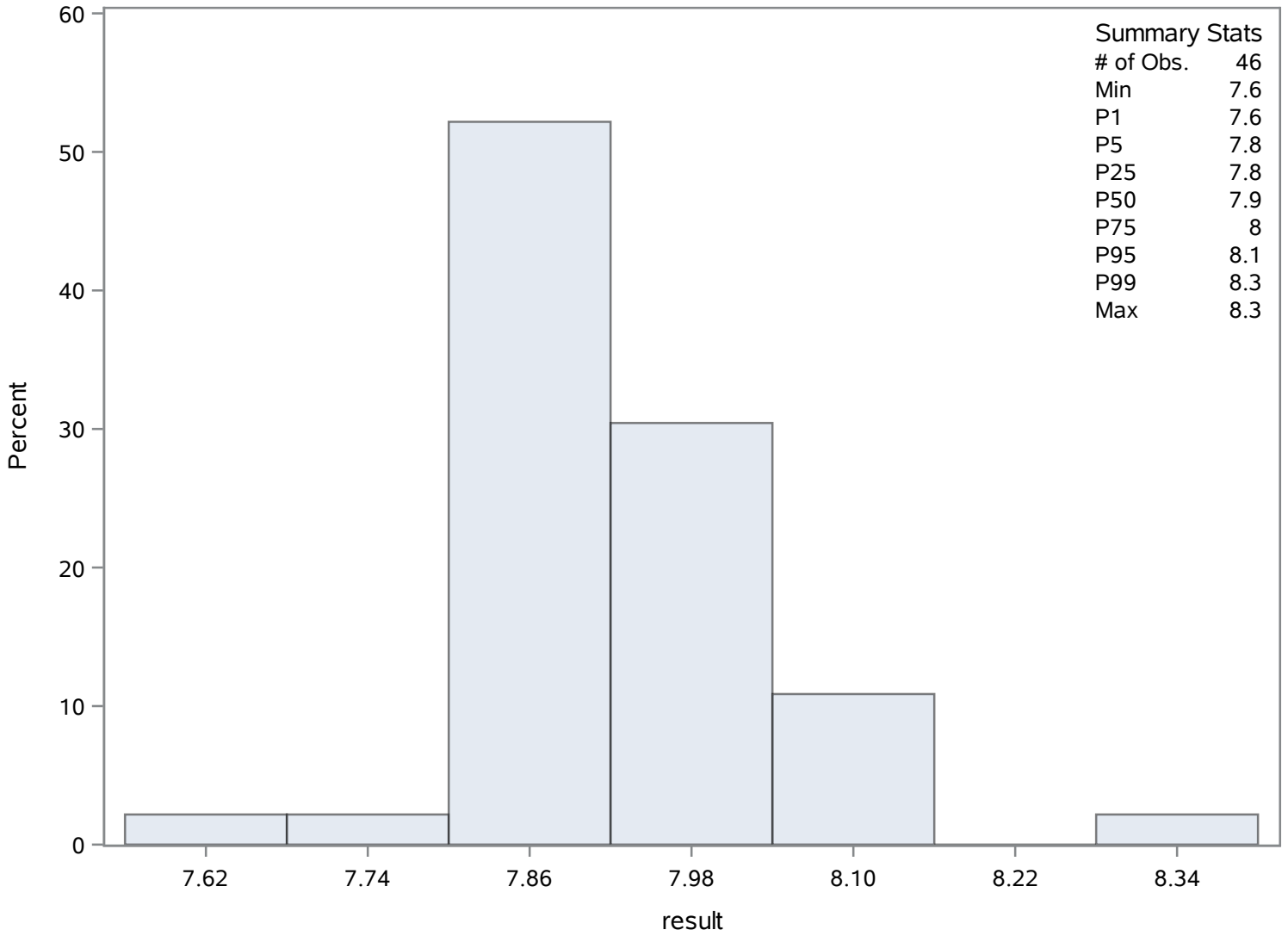
Quantiles (Definition 5)	
Level	Quantile
1%	7.6
0% Min	7.6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.6	615	8.1	625
7.7	613	8.1	631
7.8	655	8.1	634
7.8	652	8.1	649
7.8	651	8.3	653

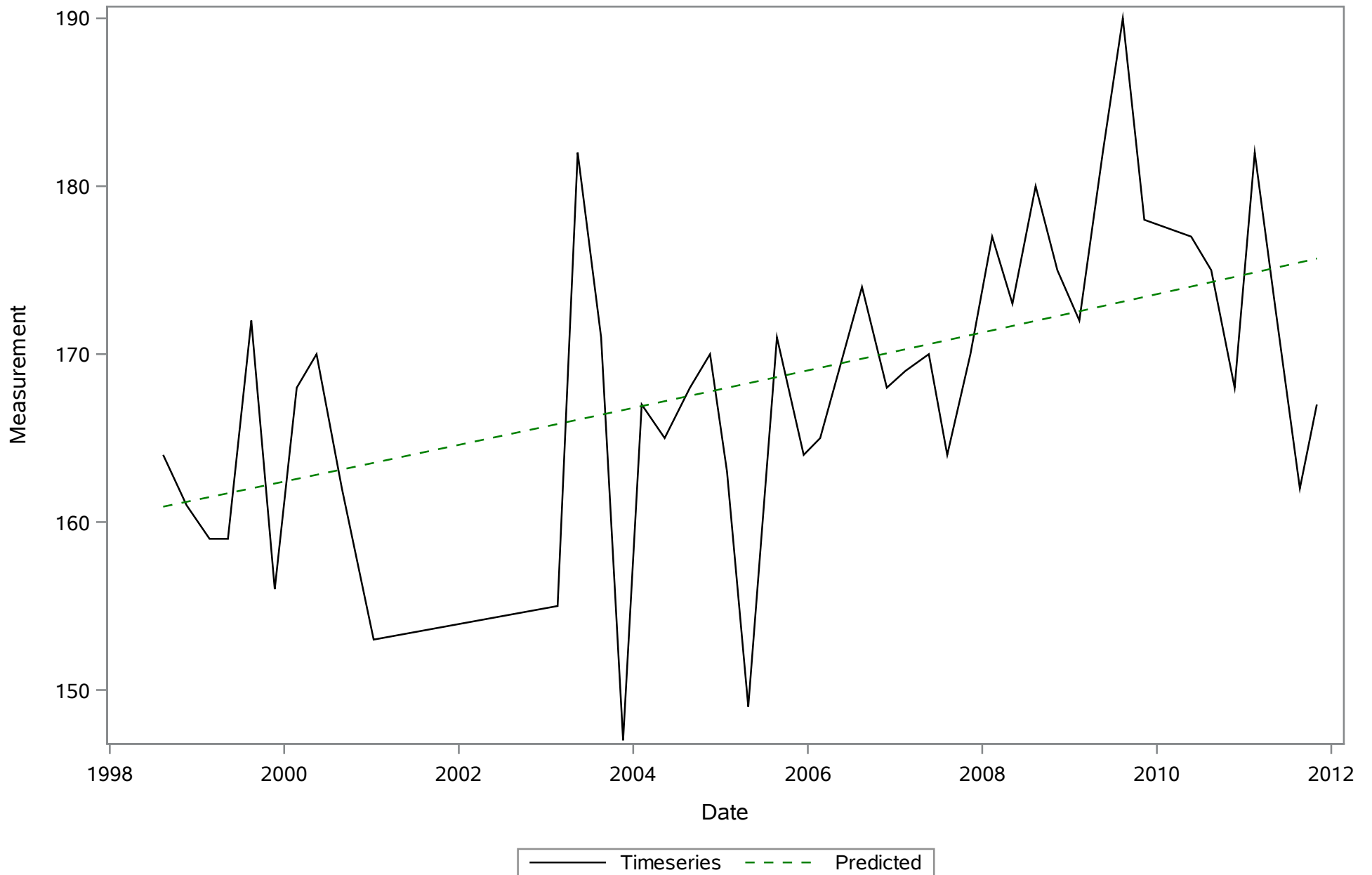
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Lab

The UNIVARIATE Procedure

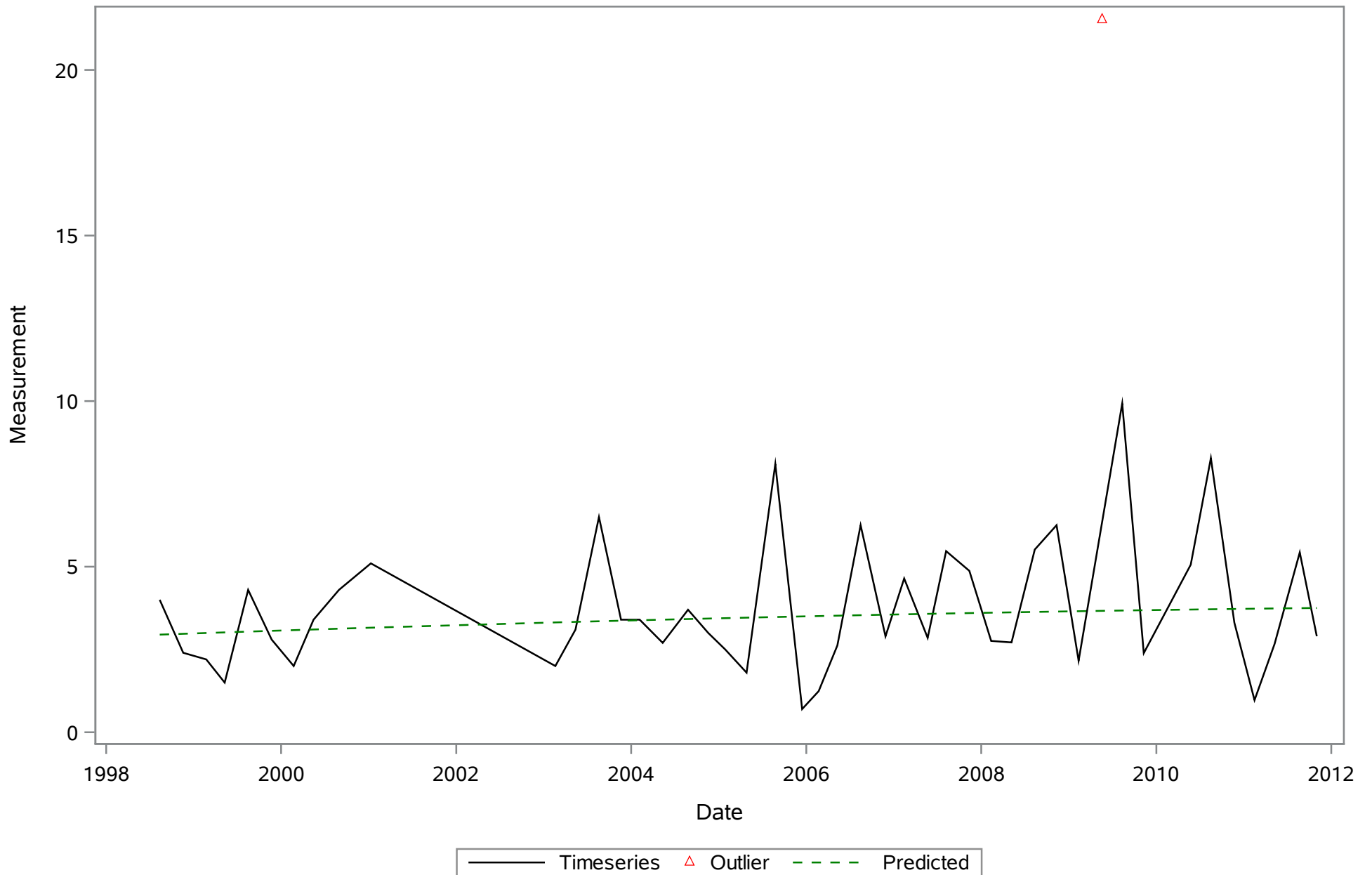
Distribution of result



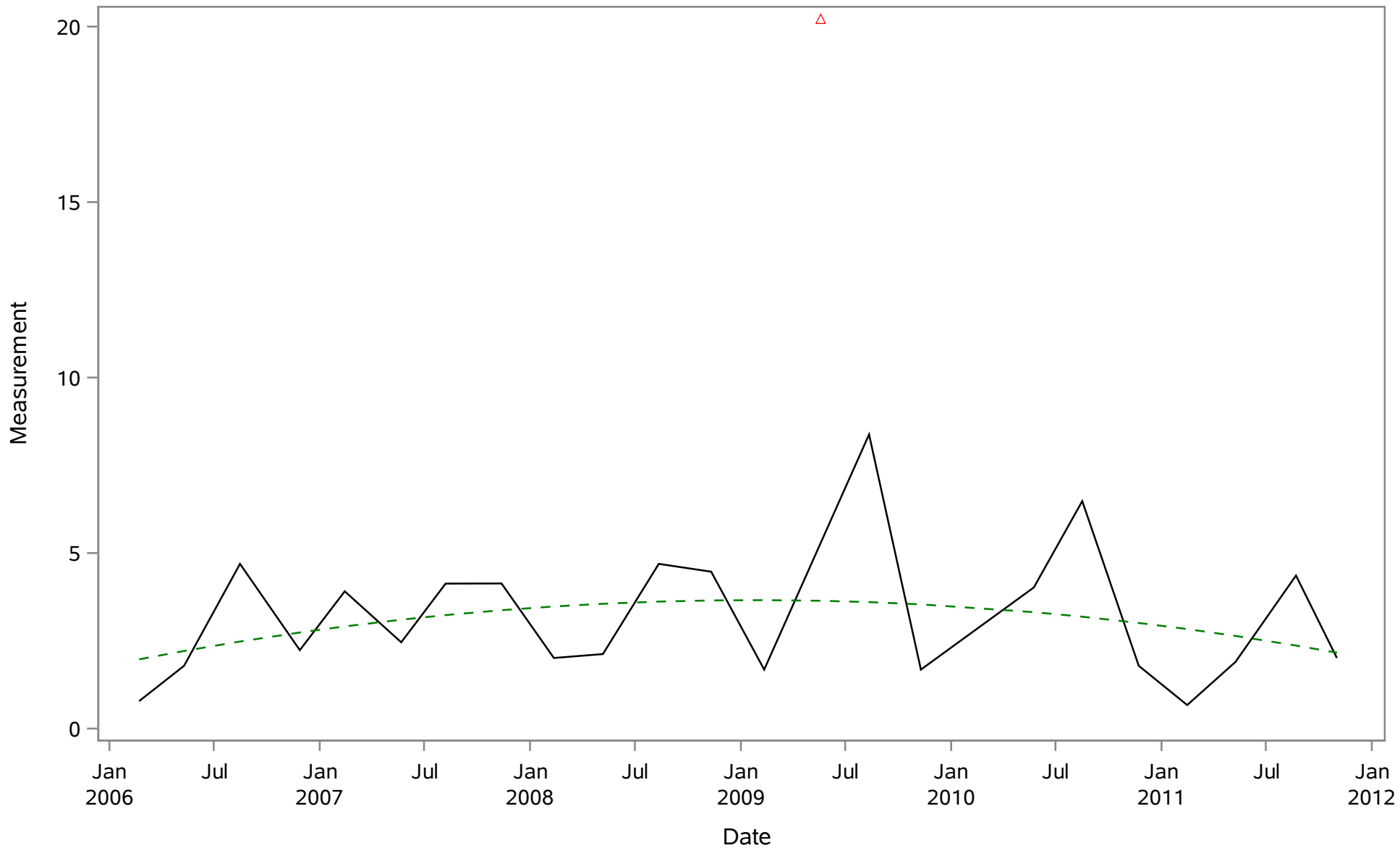
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_Uncor_ugL

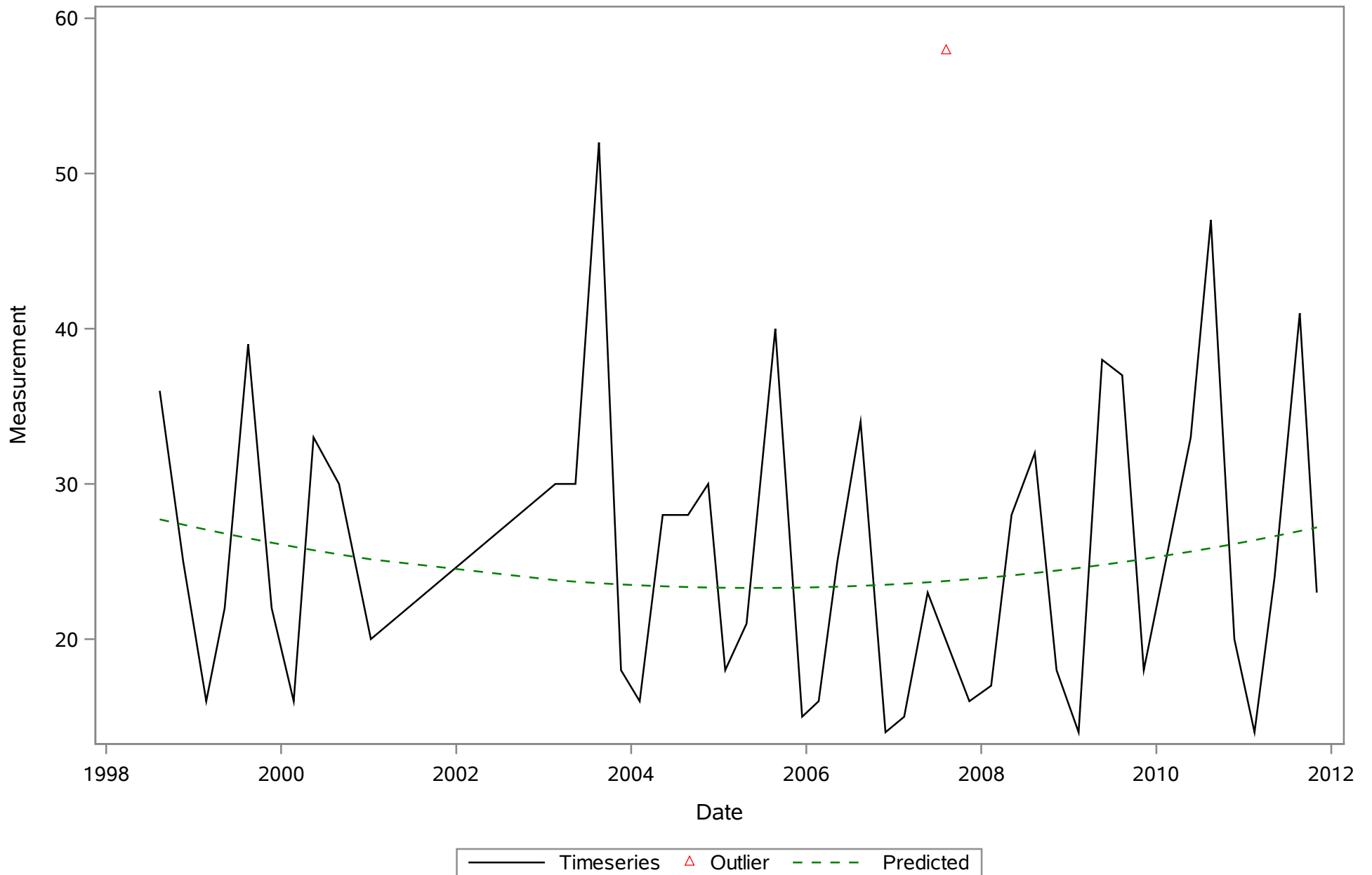


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_cor_ugl

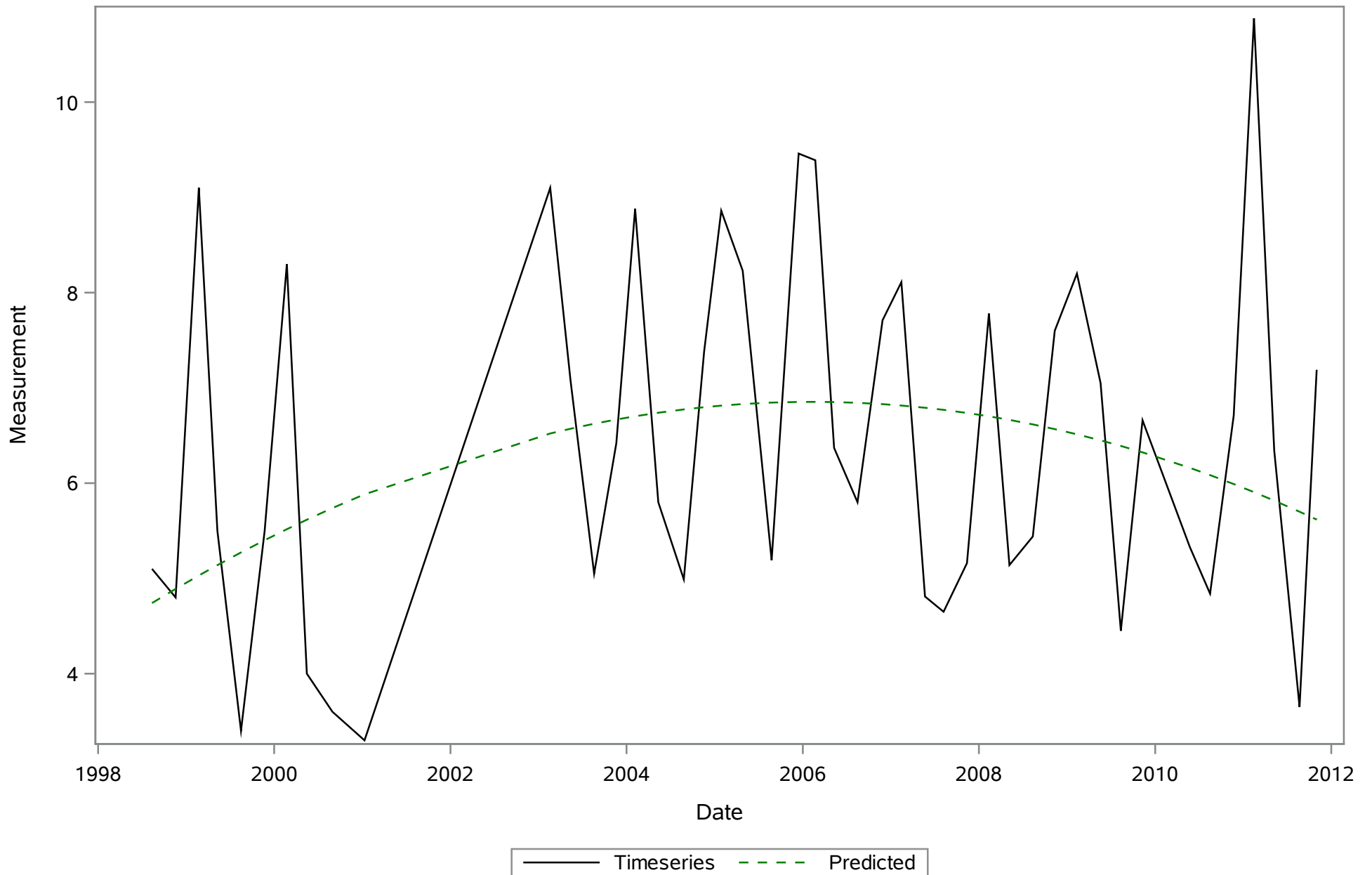


— Timeseries △ Outlier - - - Predicted

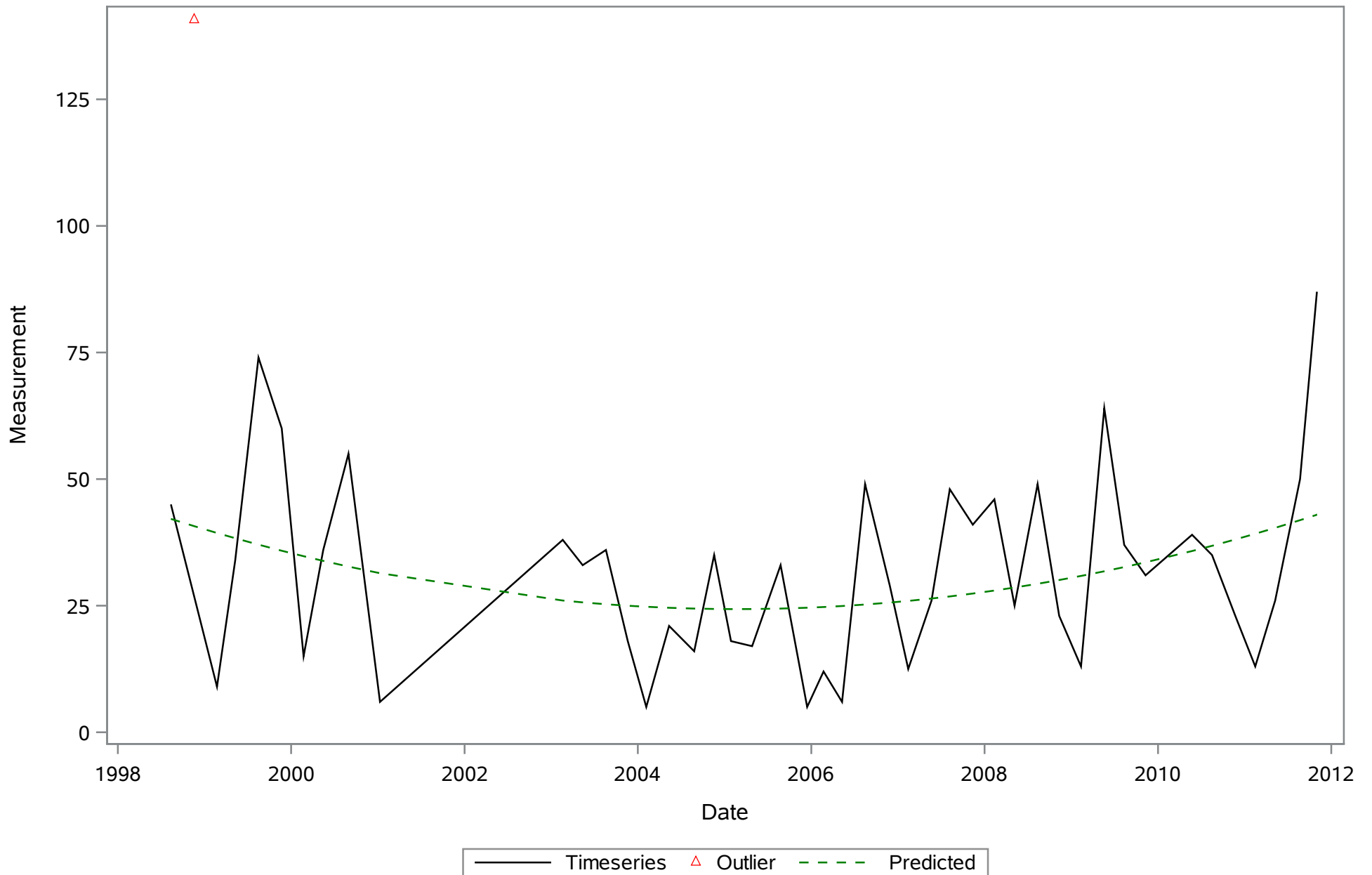
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
COLOR_PtCo



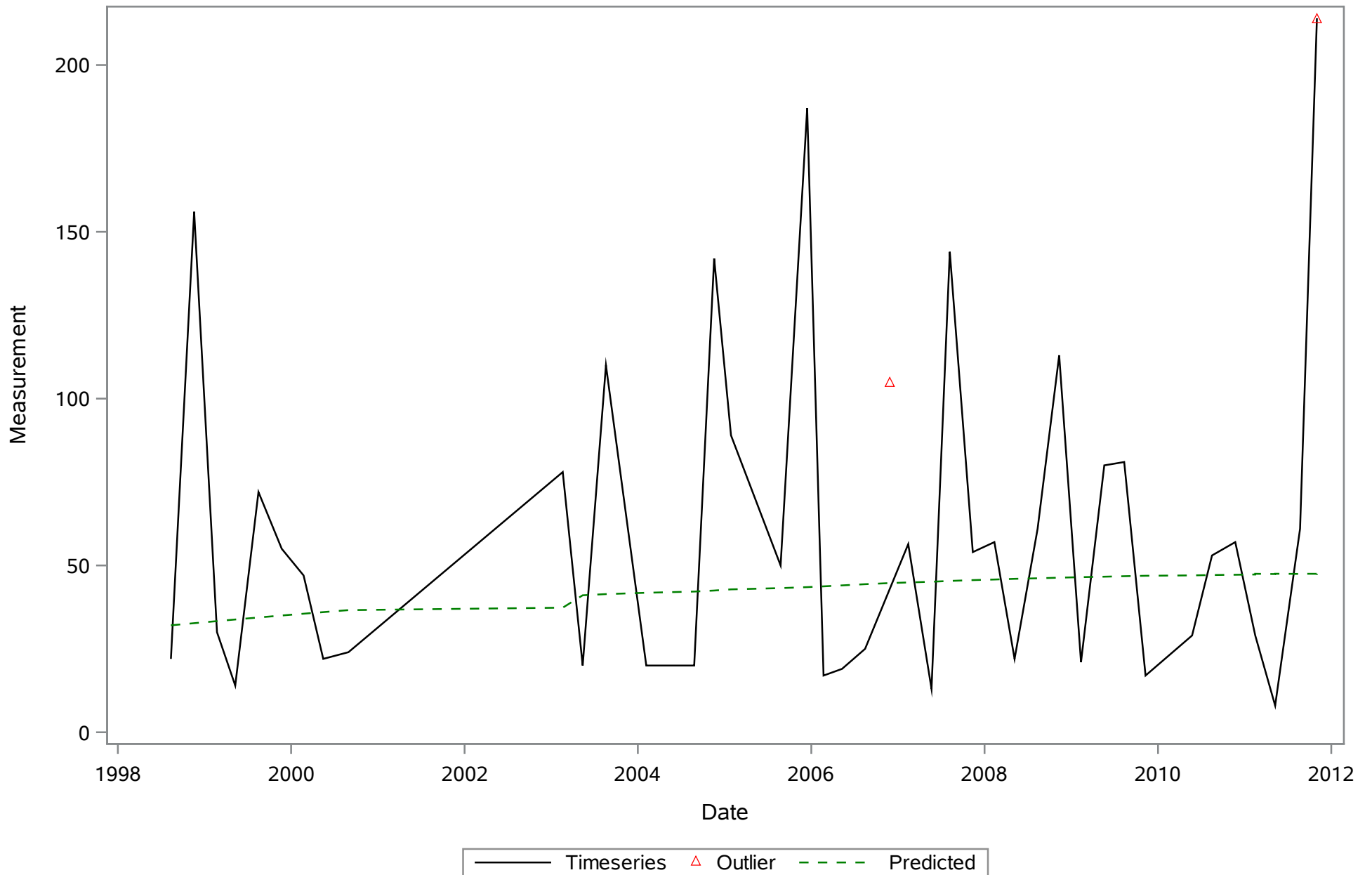
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
DO_mgL



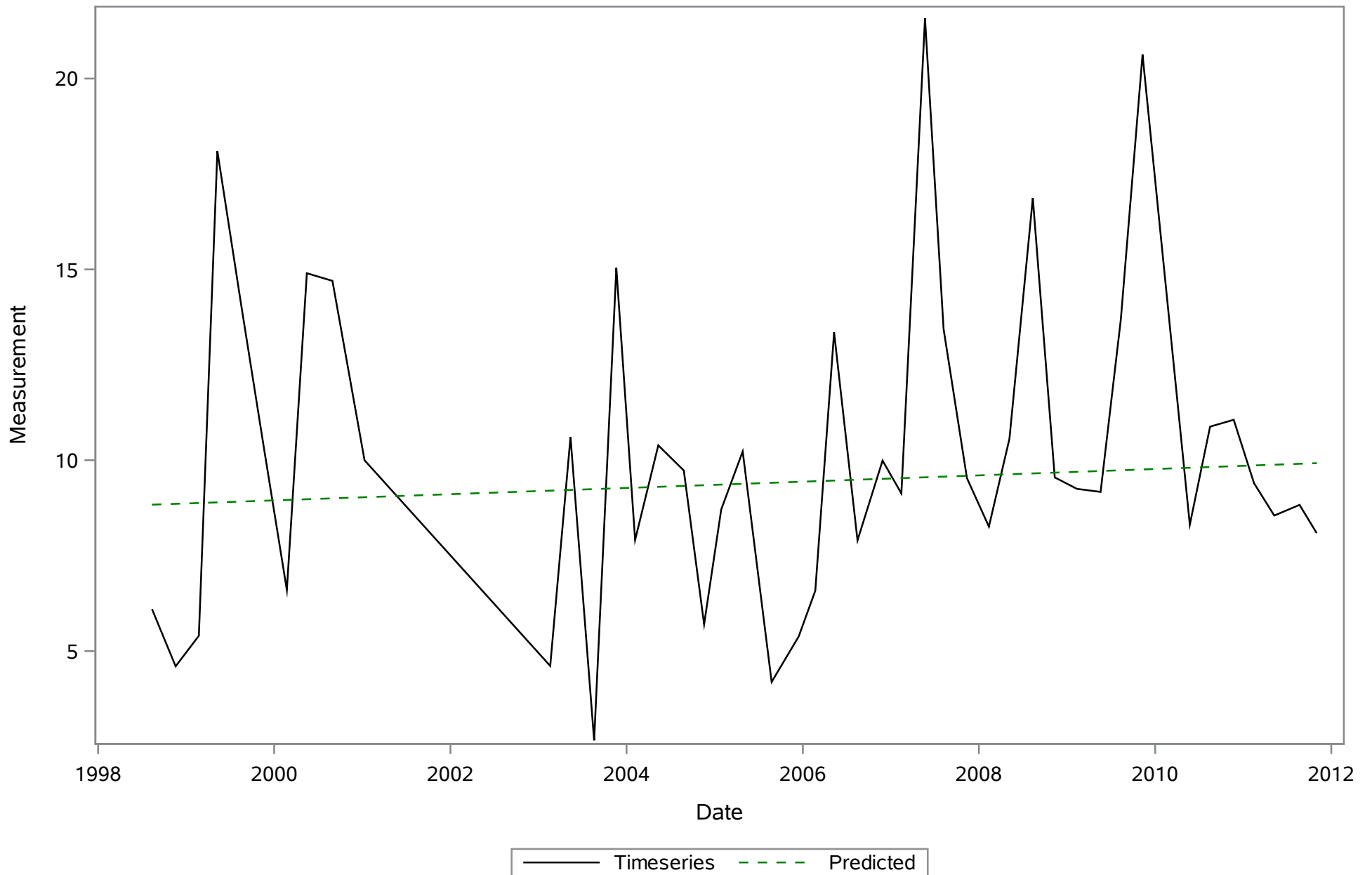
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NH4_ugl



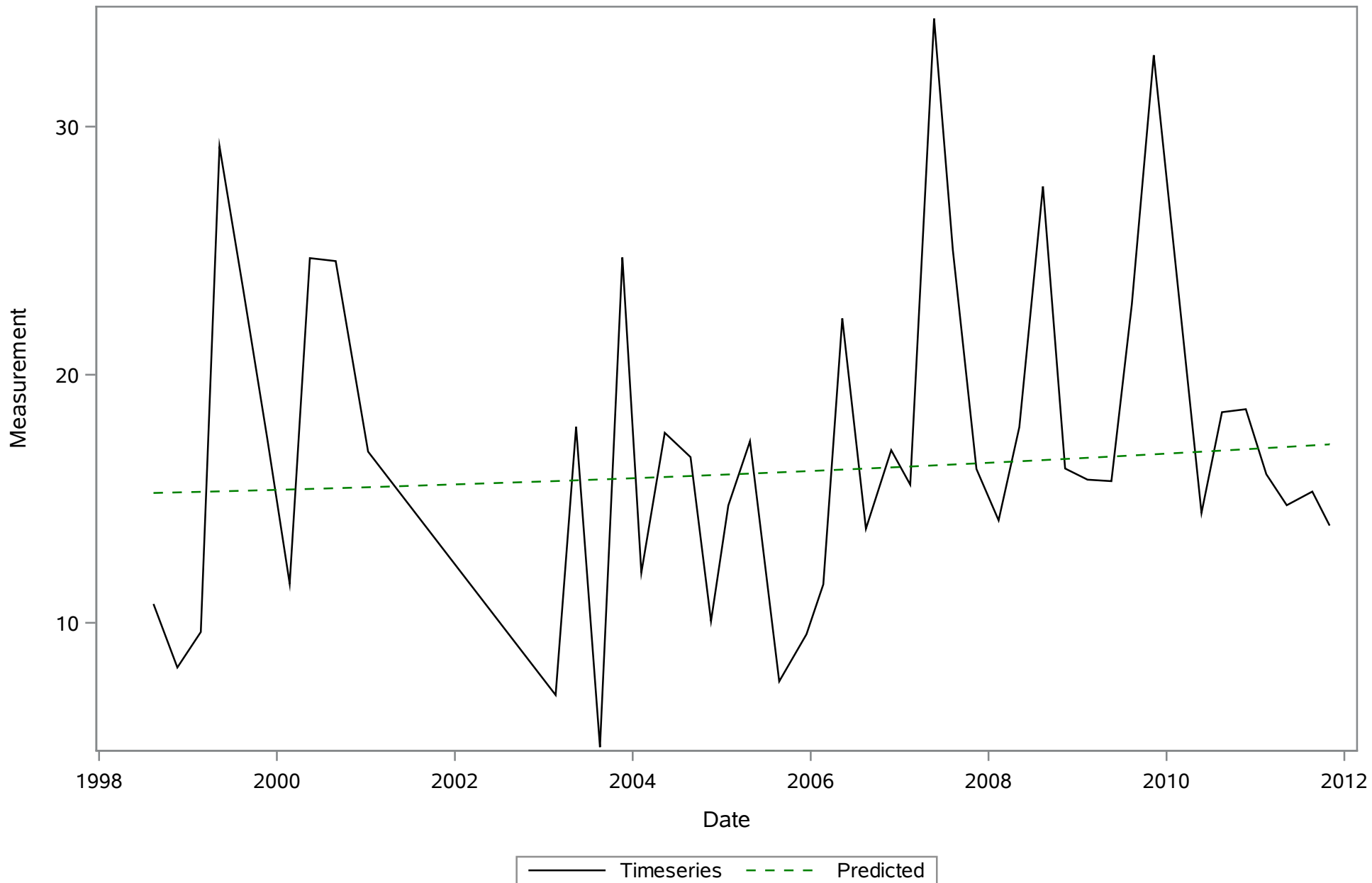
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NO3_ugL



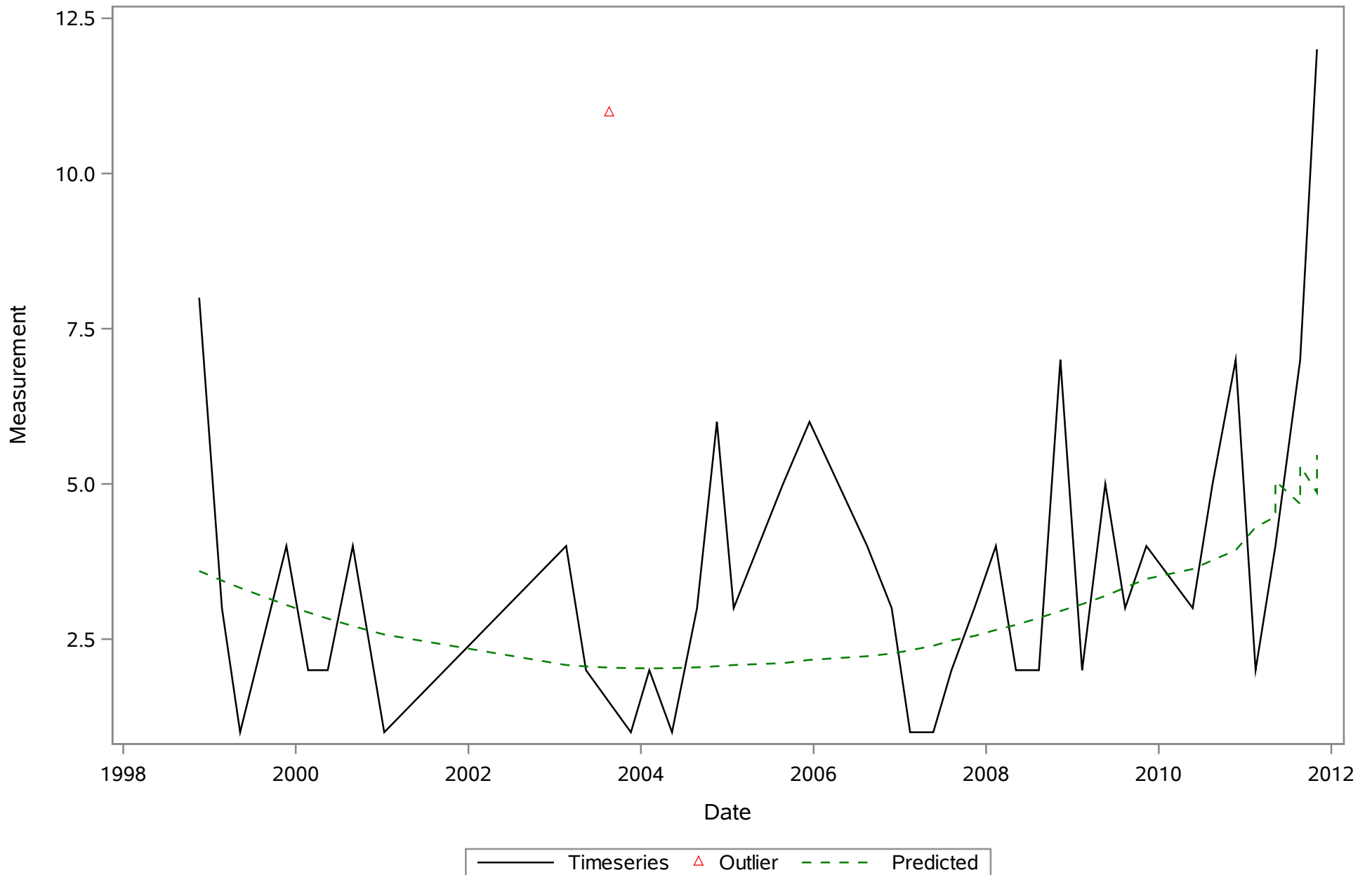
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SAL_Perc



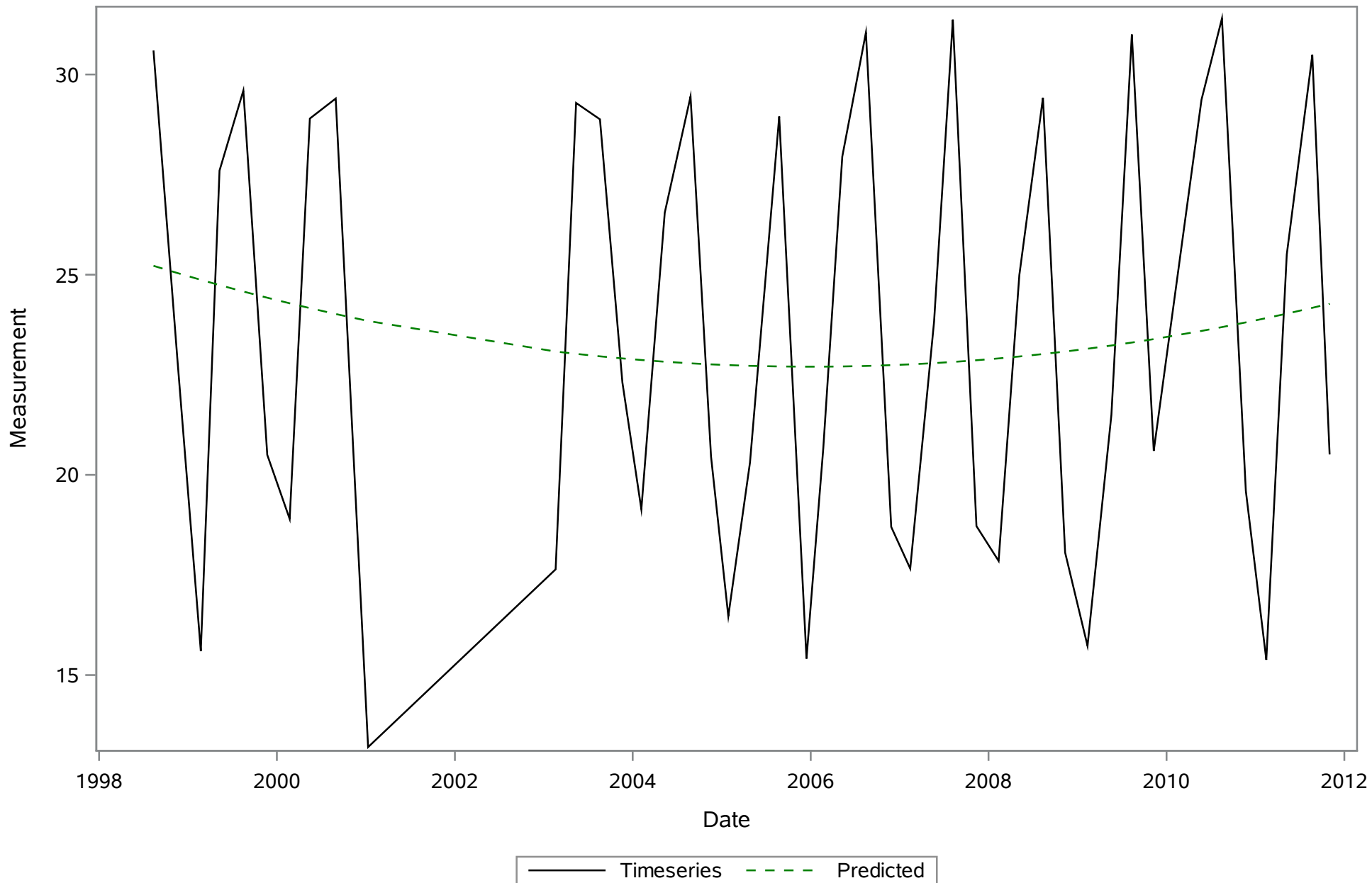
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SPCOND_mS_cm



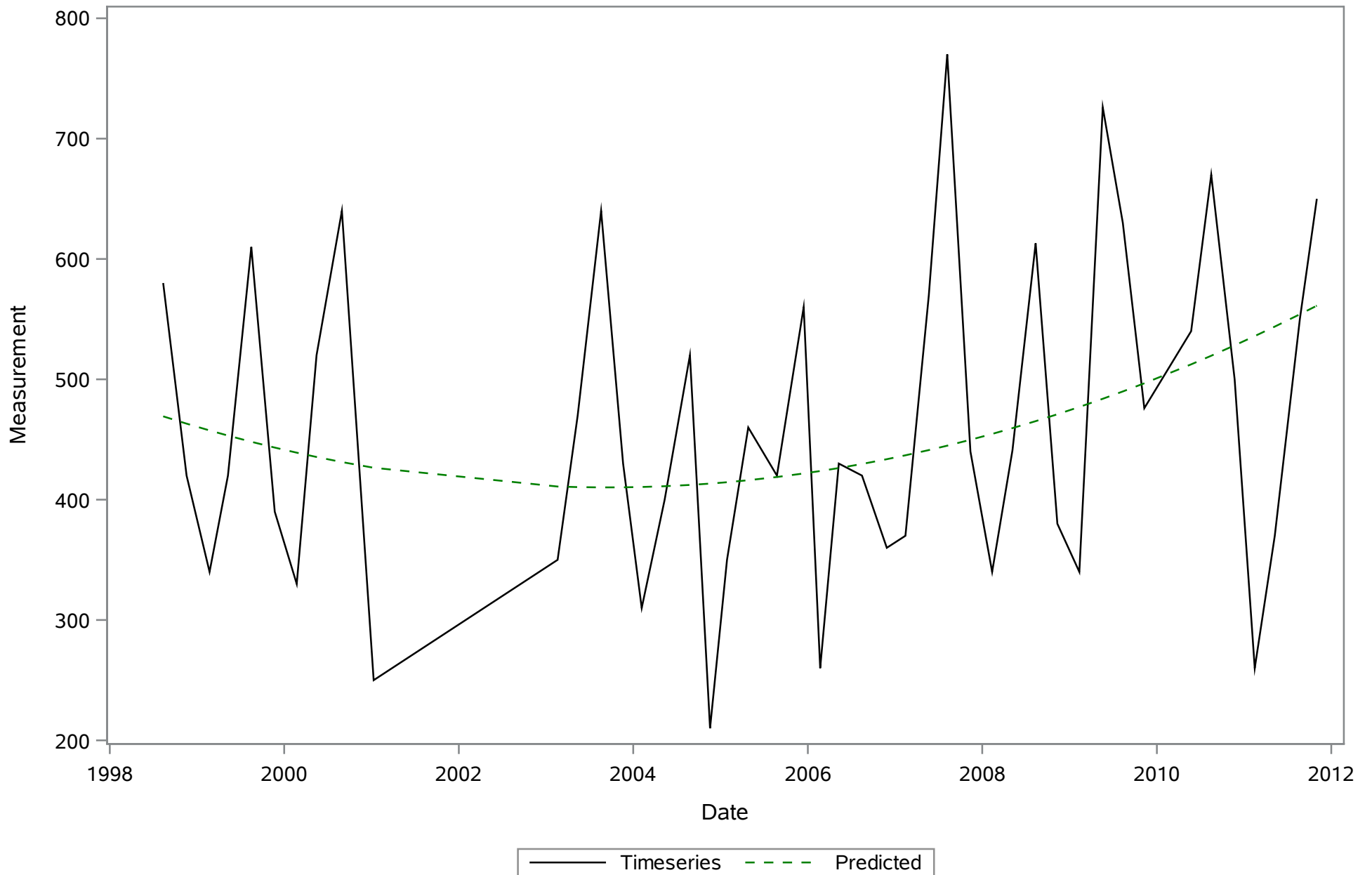
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SRP_ugL



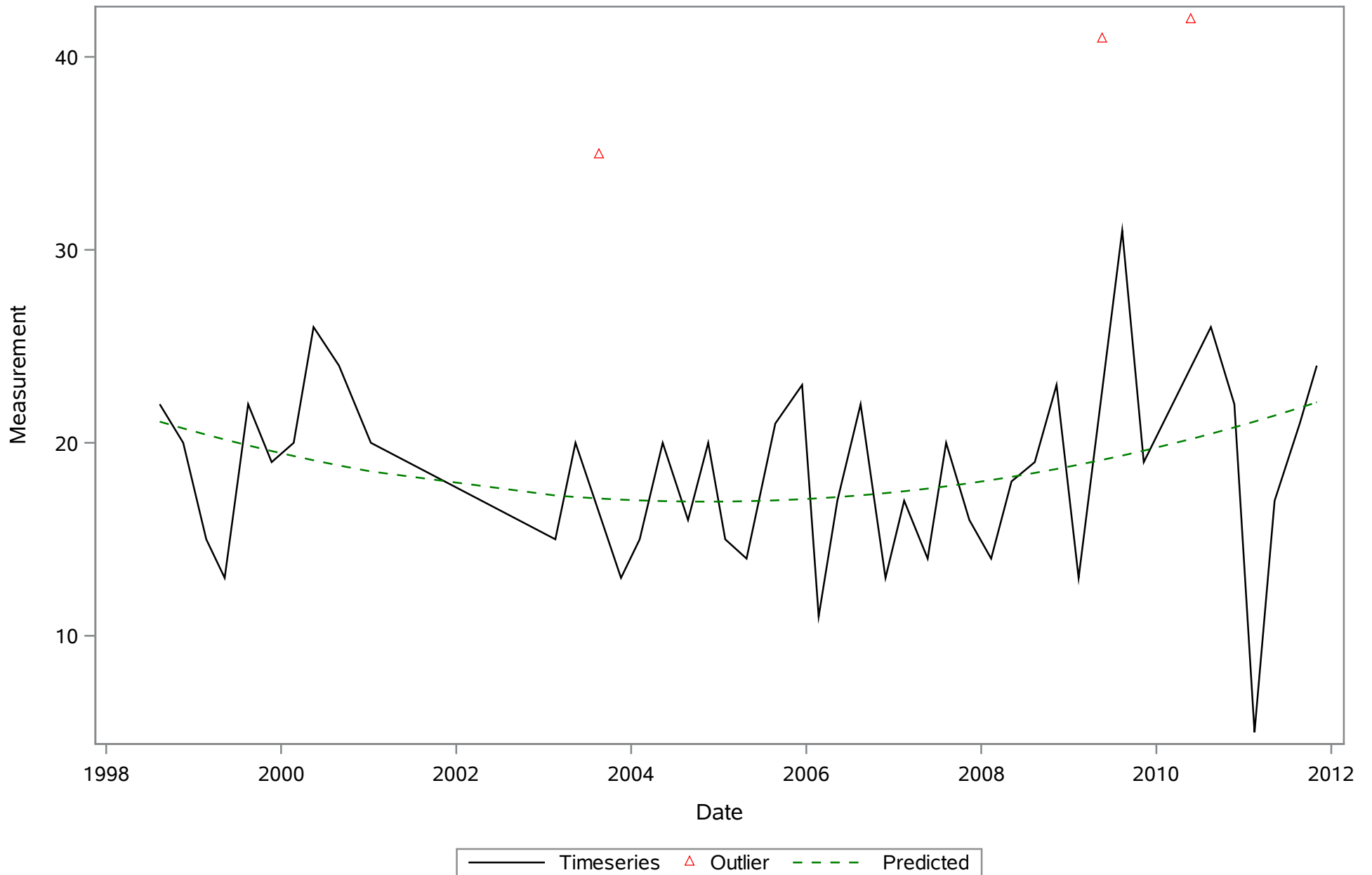
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TEMP_C



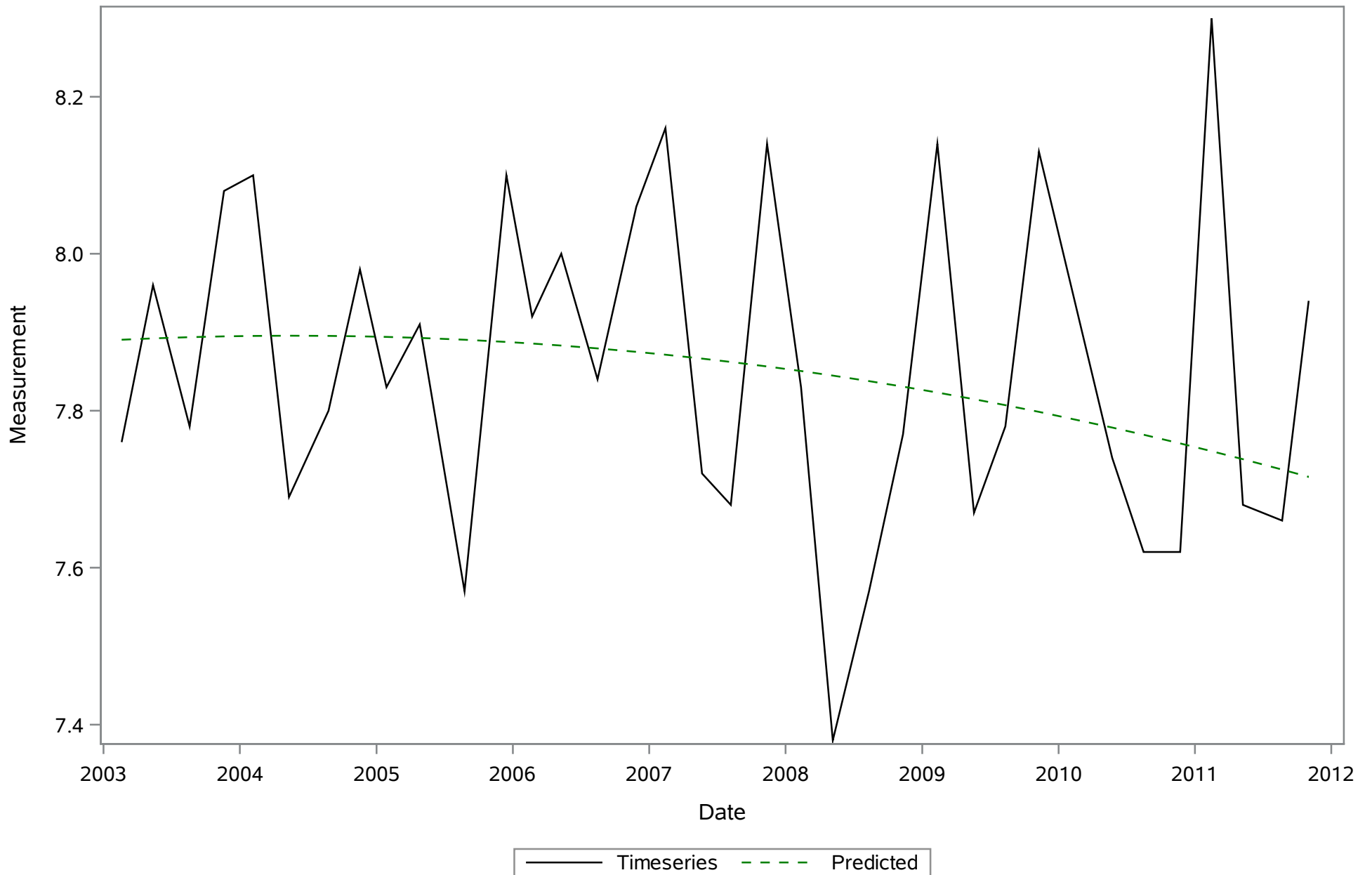
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TN_ugl



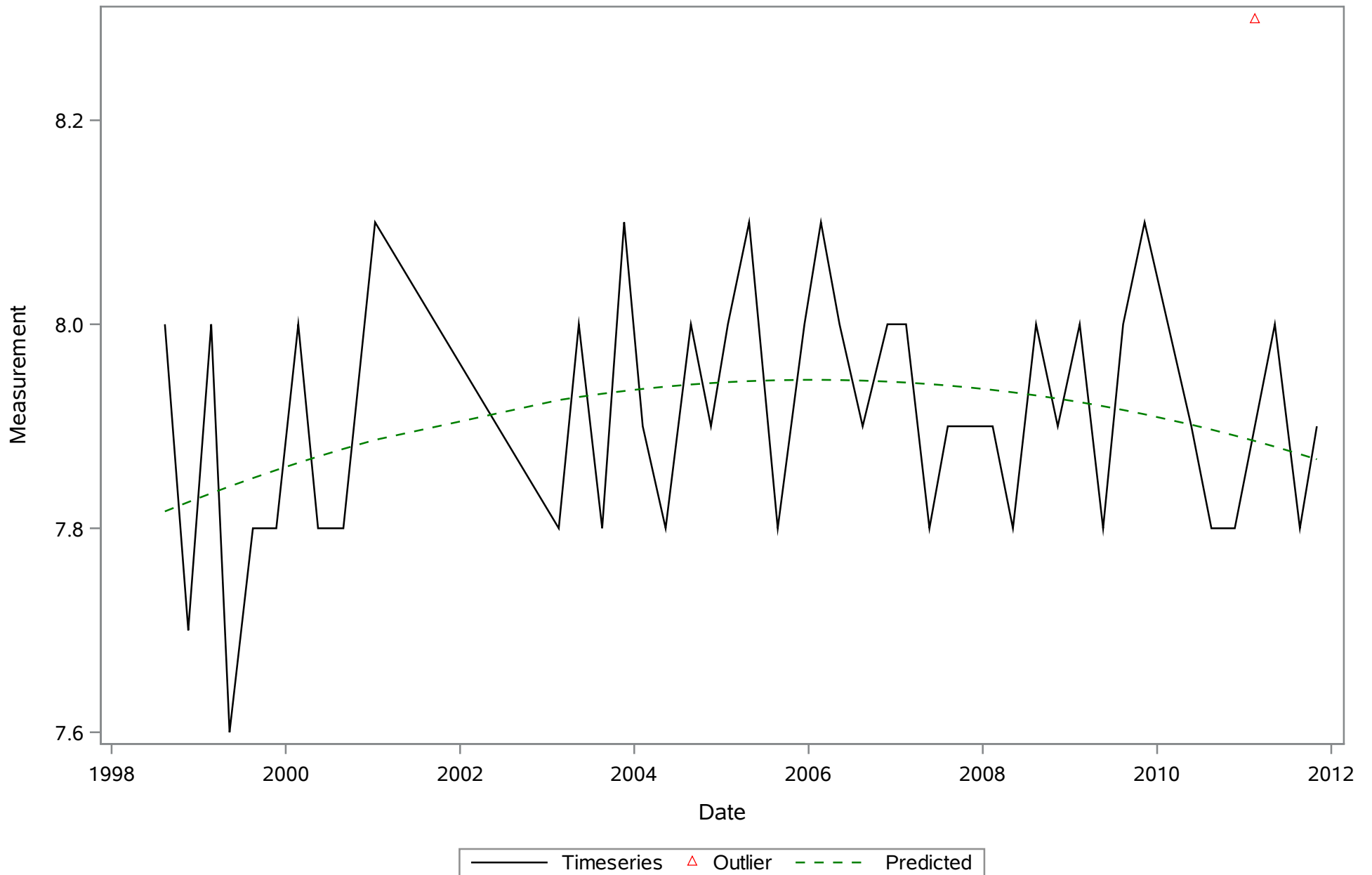
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TP_ugl



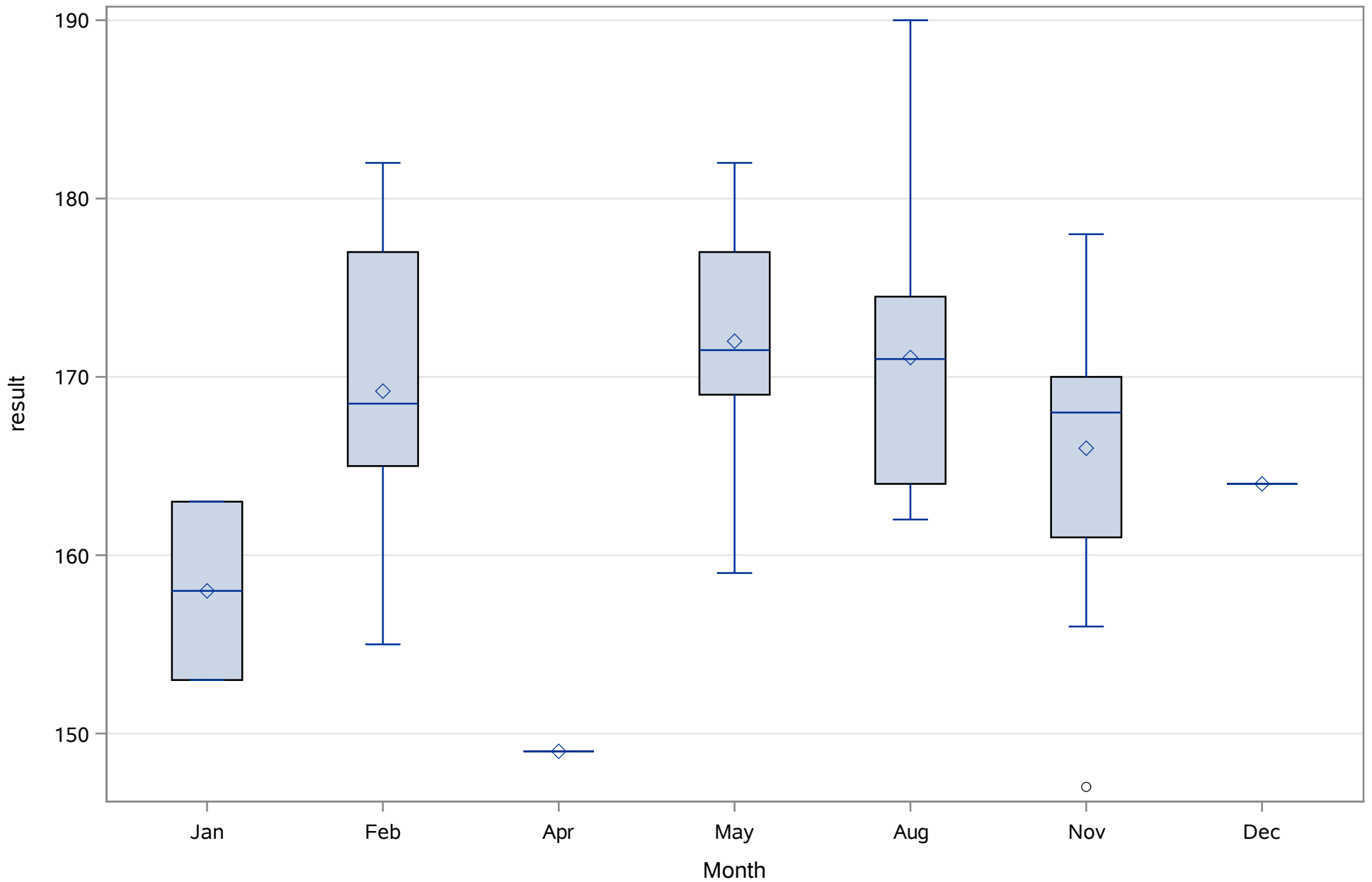
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Field



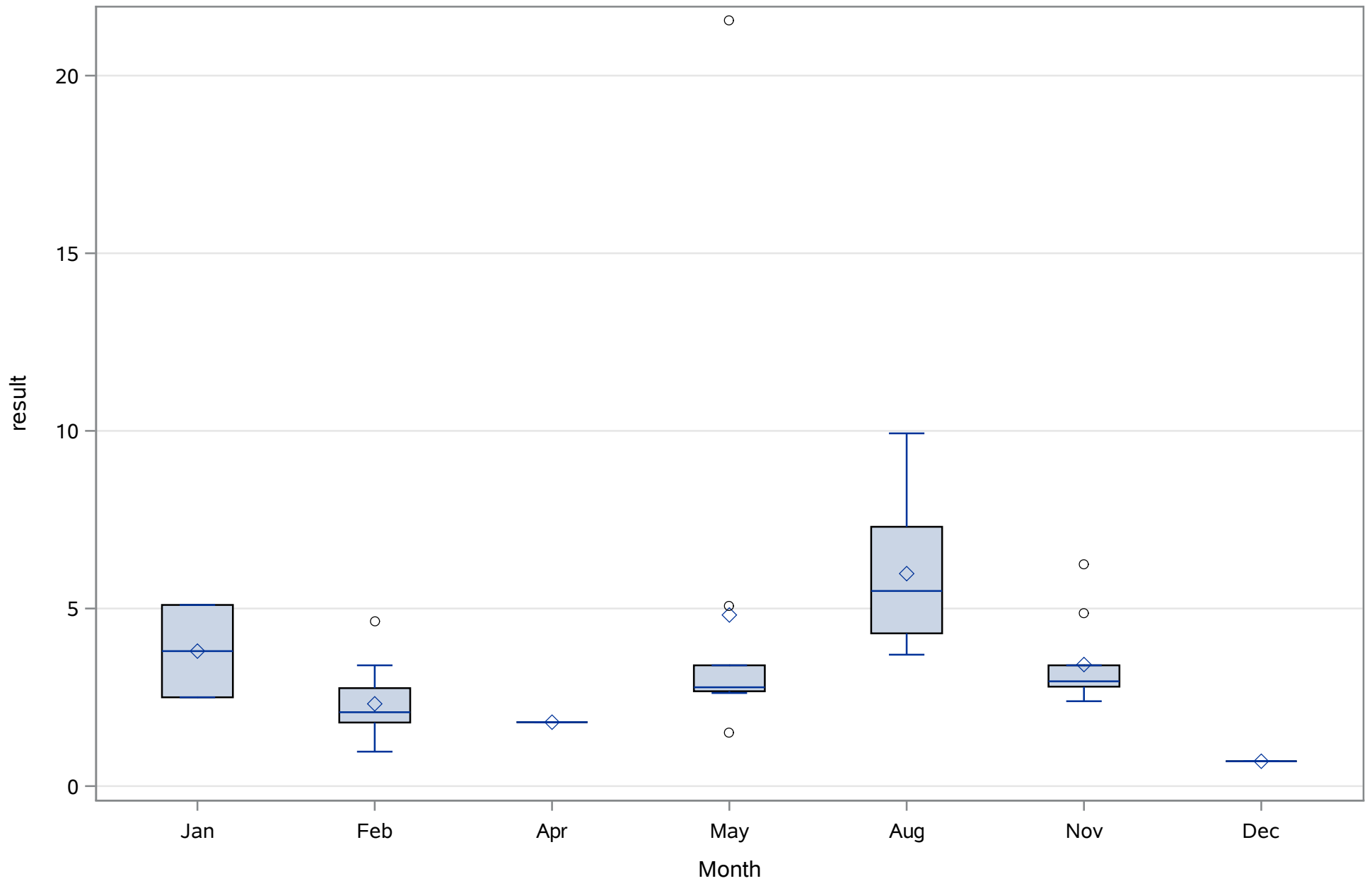
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Lab



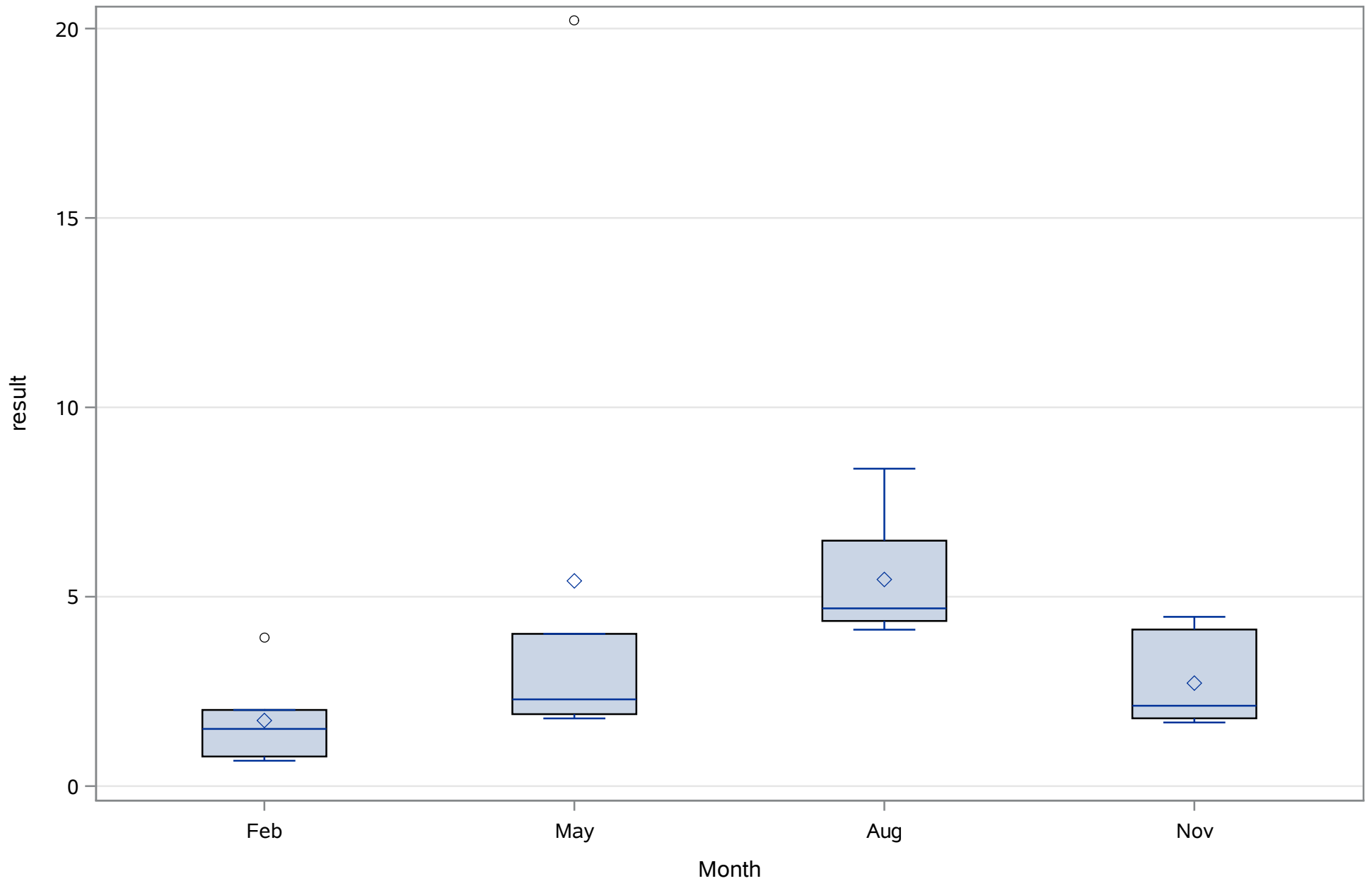
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
ALK_tot_mgL



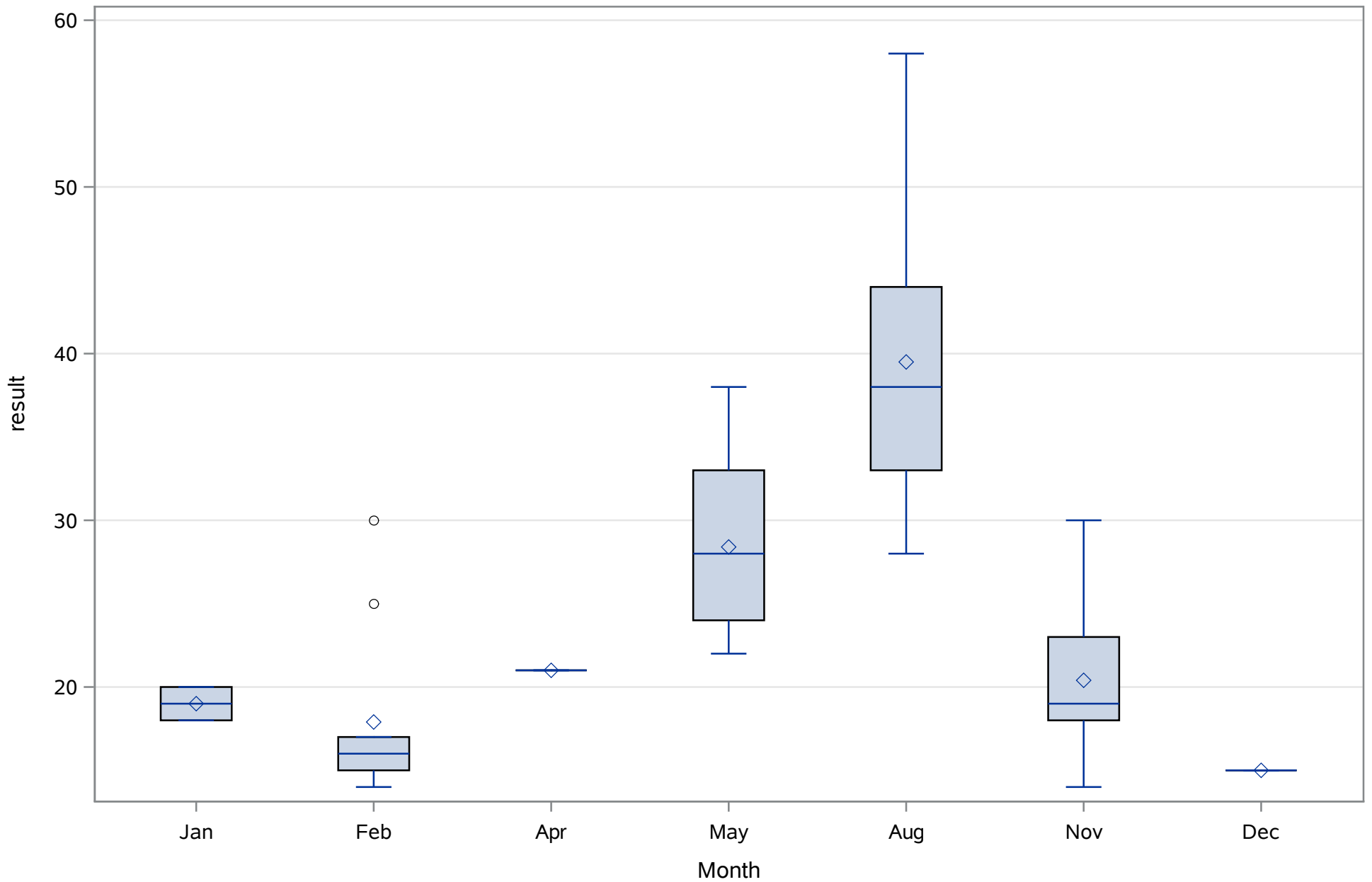
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_Uncor_ugL



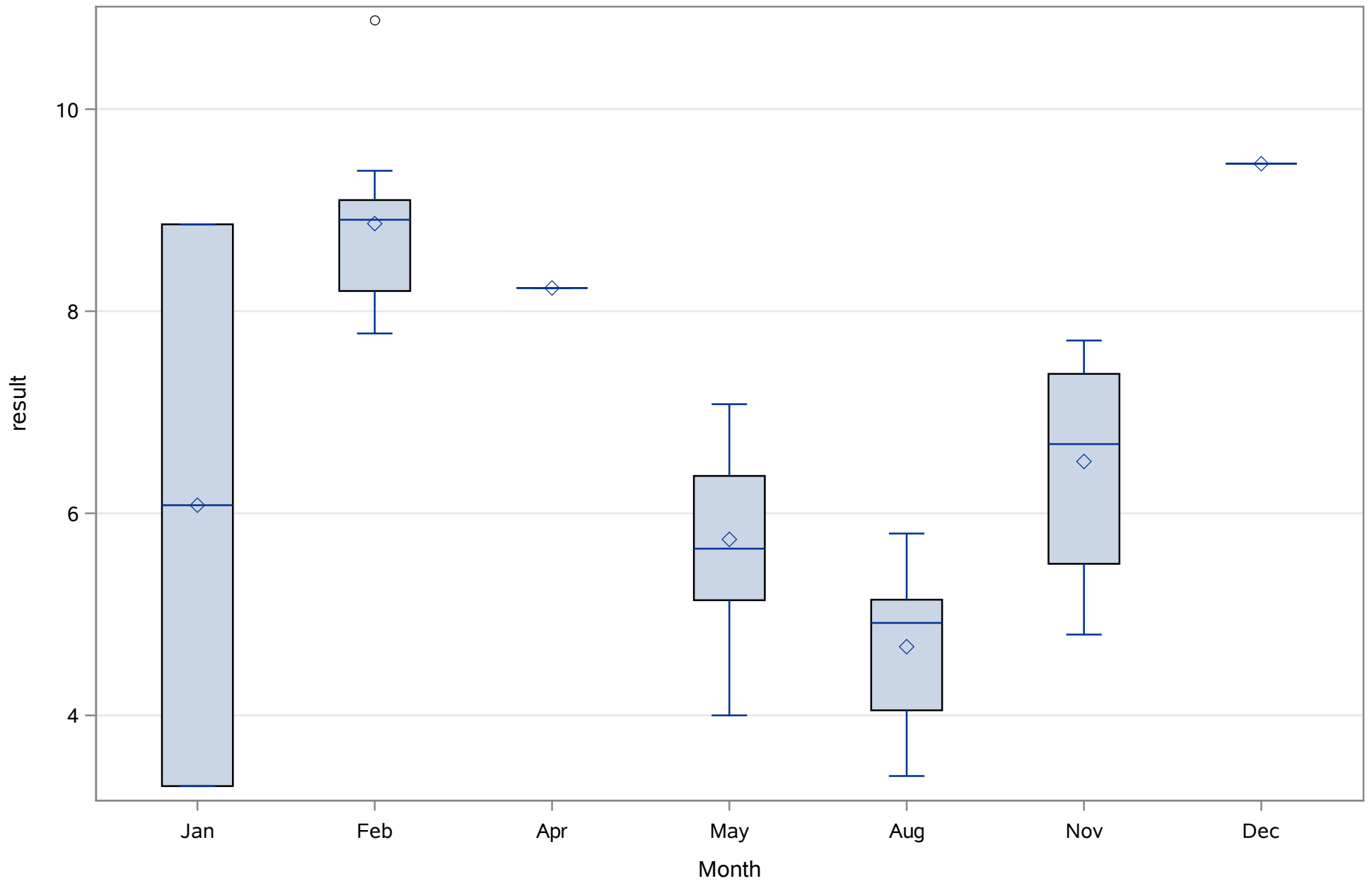
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
CHLA_cor_ugl



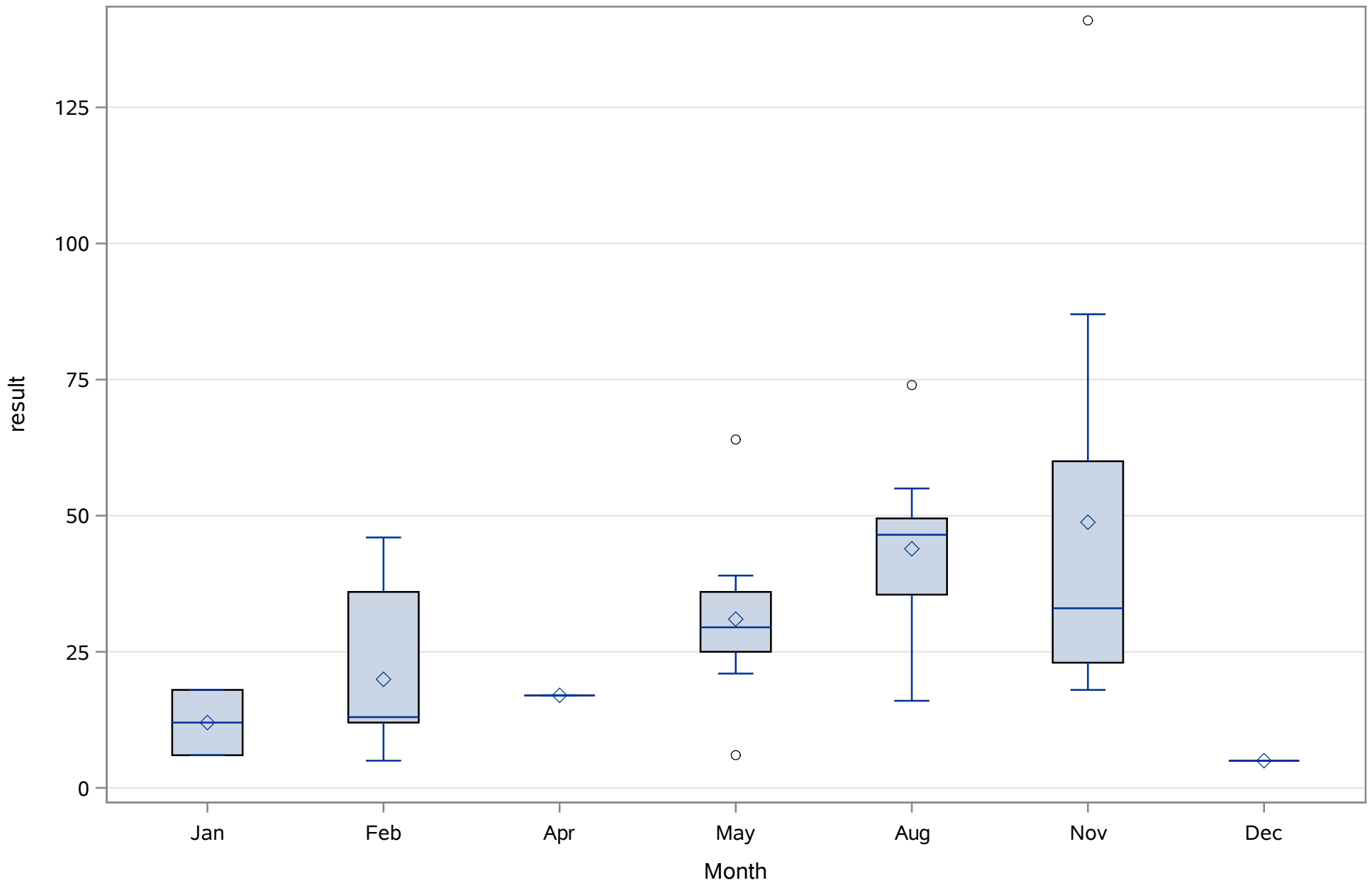
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
COLOR_PtCo



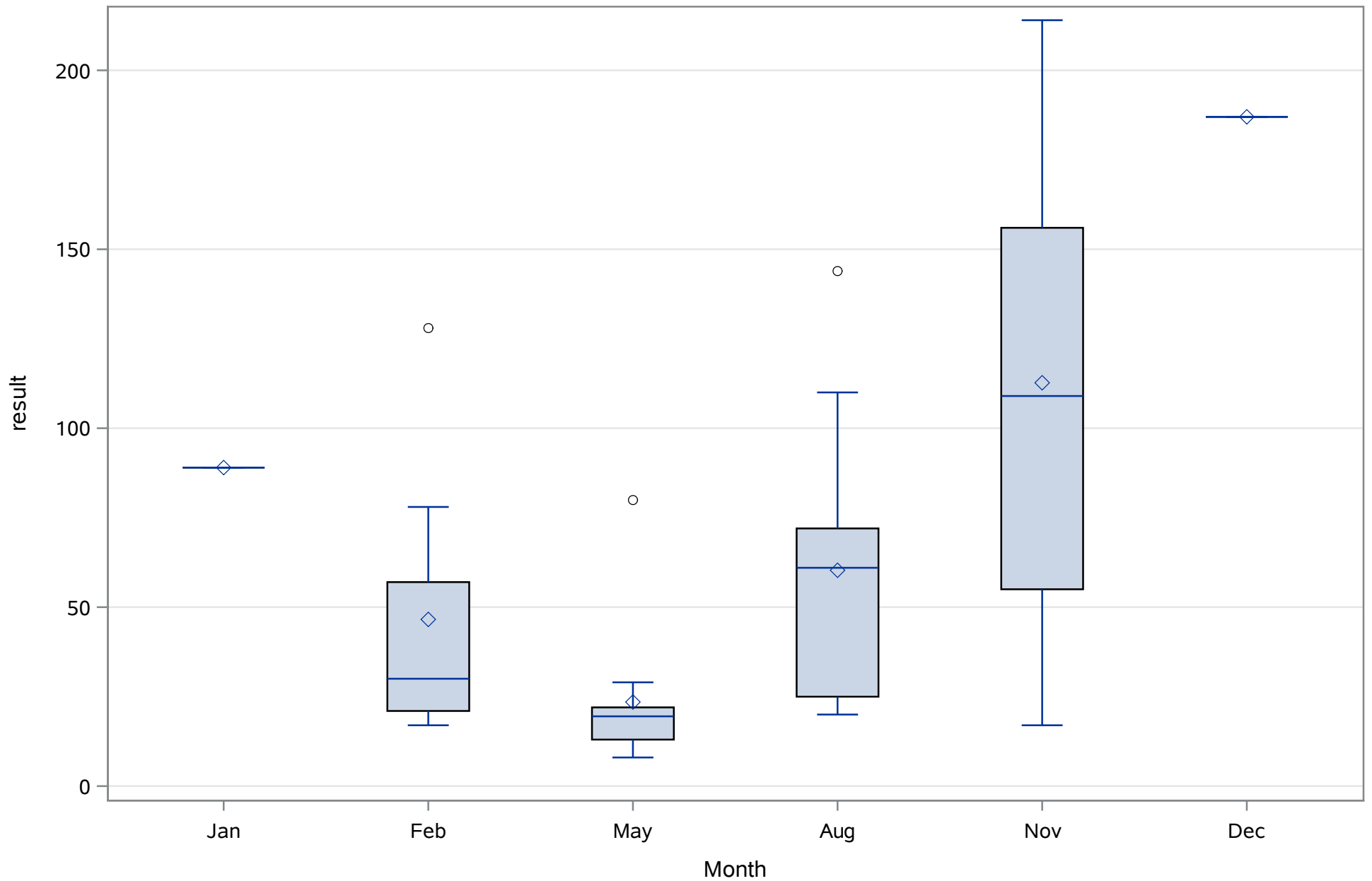
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
DO_mgL



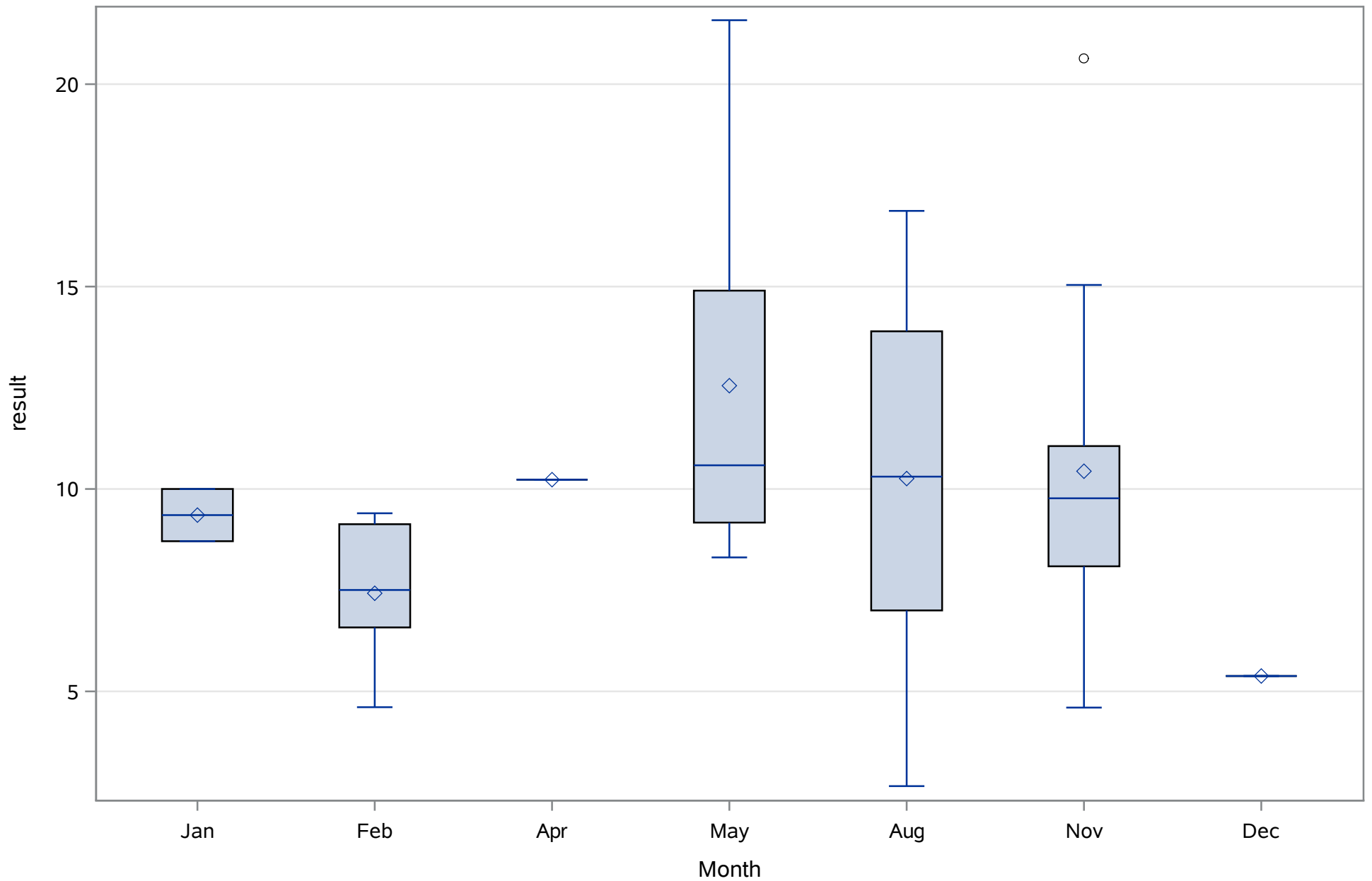
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NH4_ugl



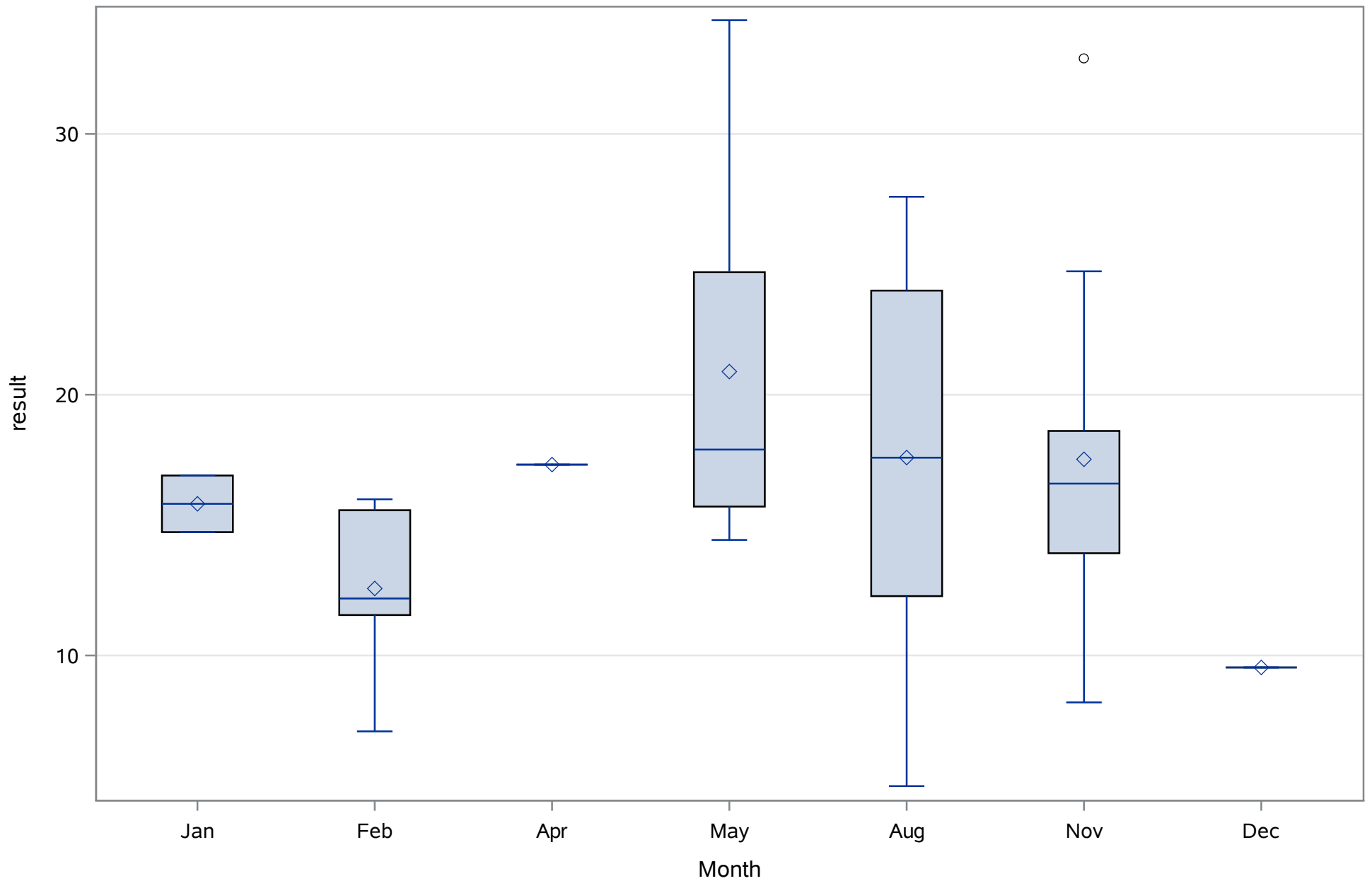
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
NO3_ugL



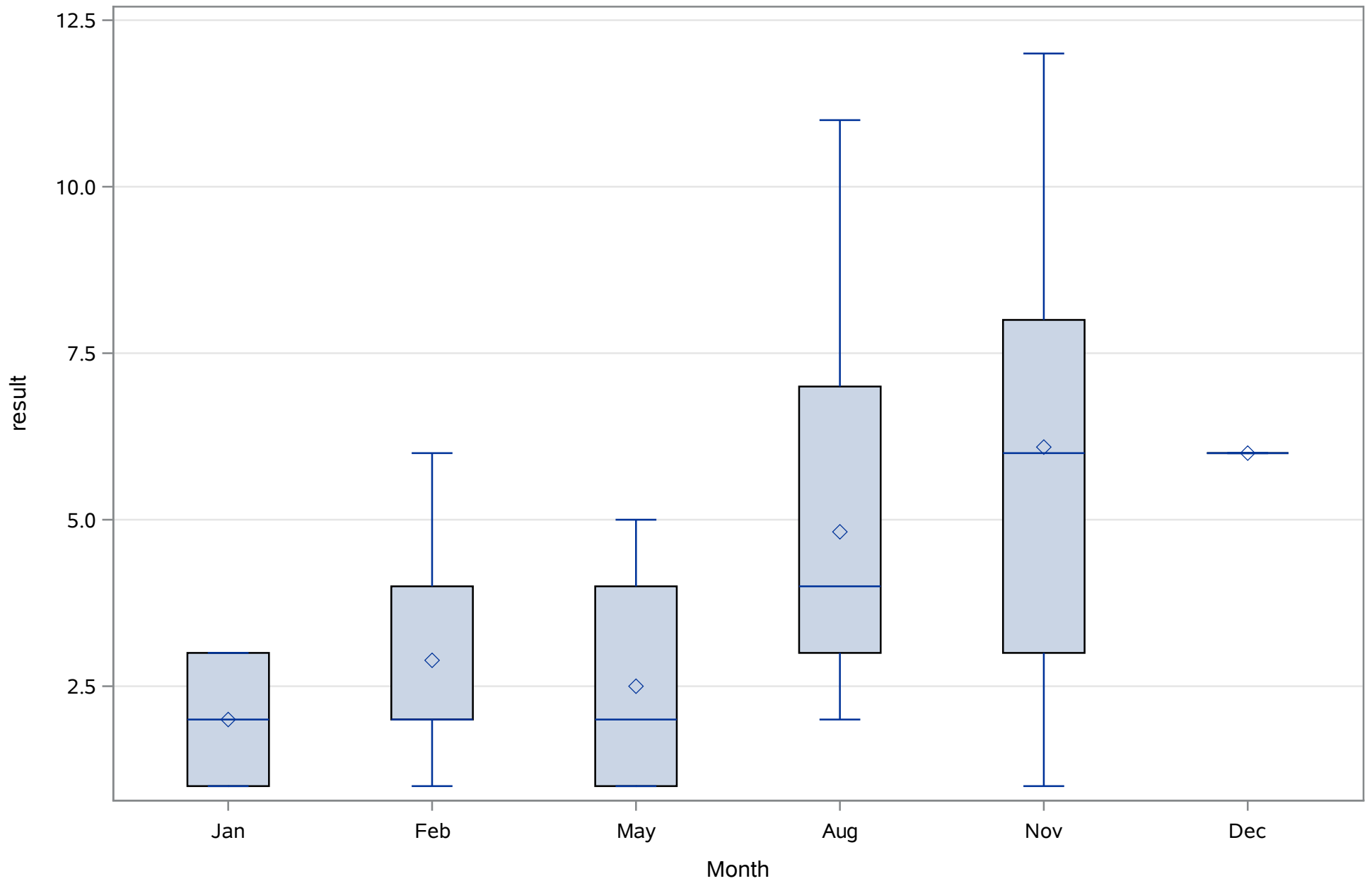
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SAL_Perc



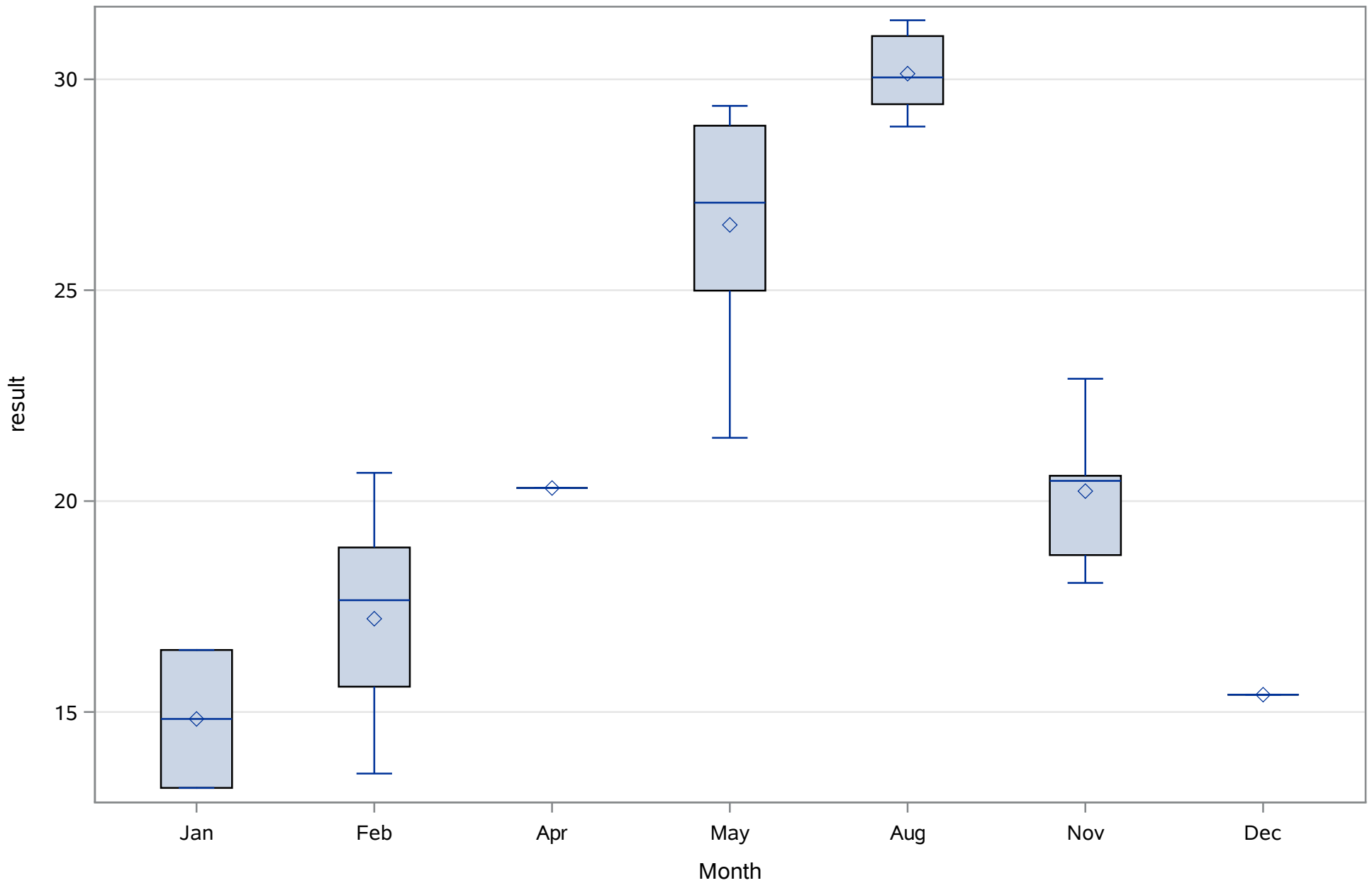
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SPCOND_mS_cm



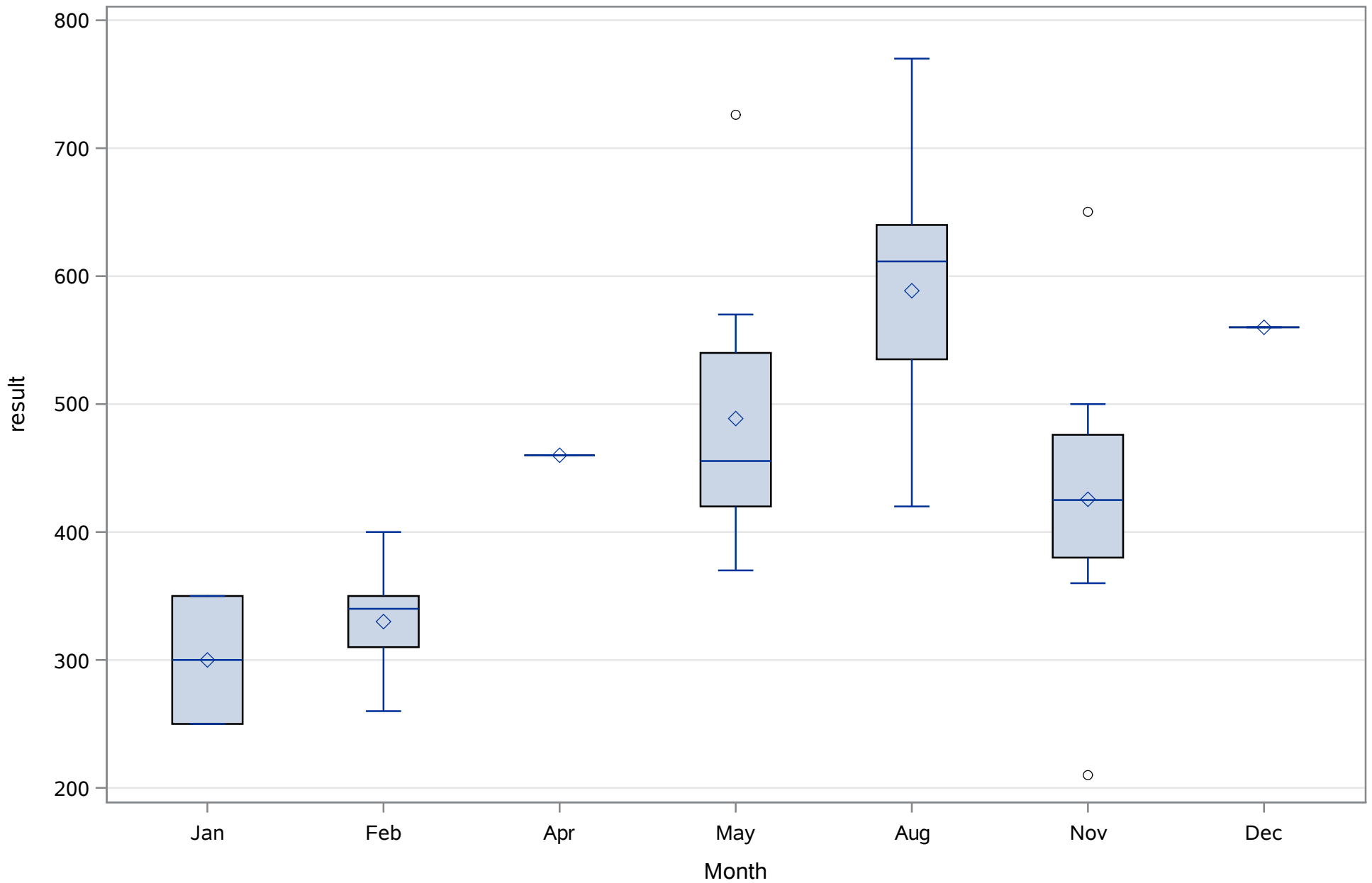
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
SRP_ugL



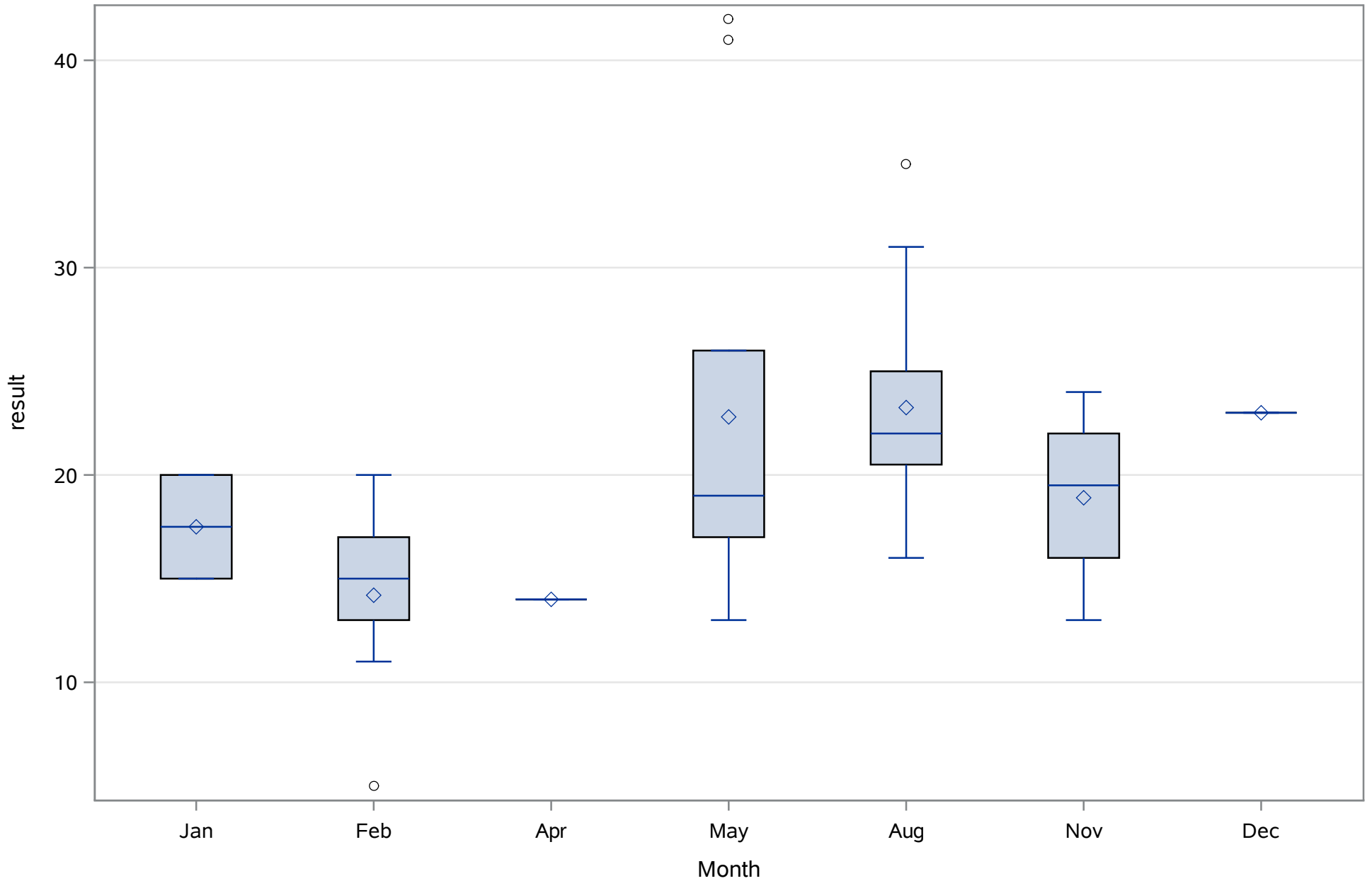
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TEMP_C



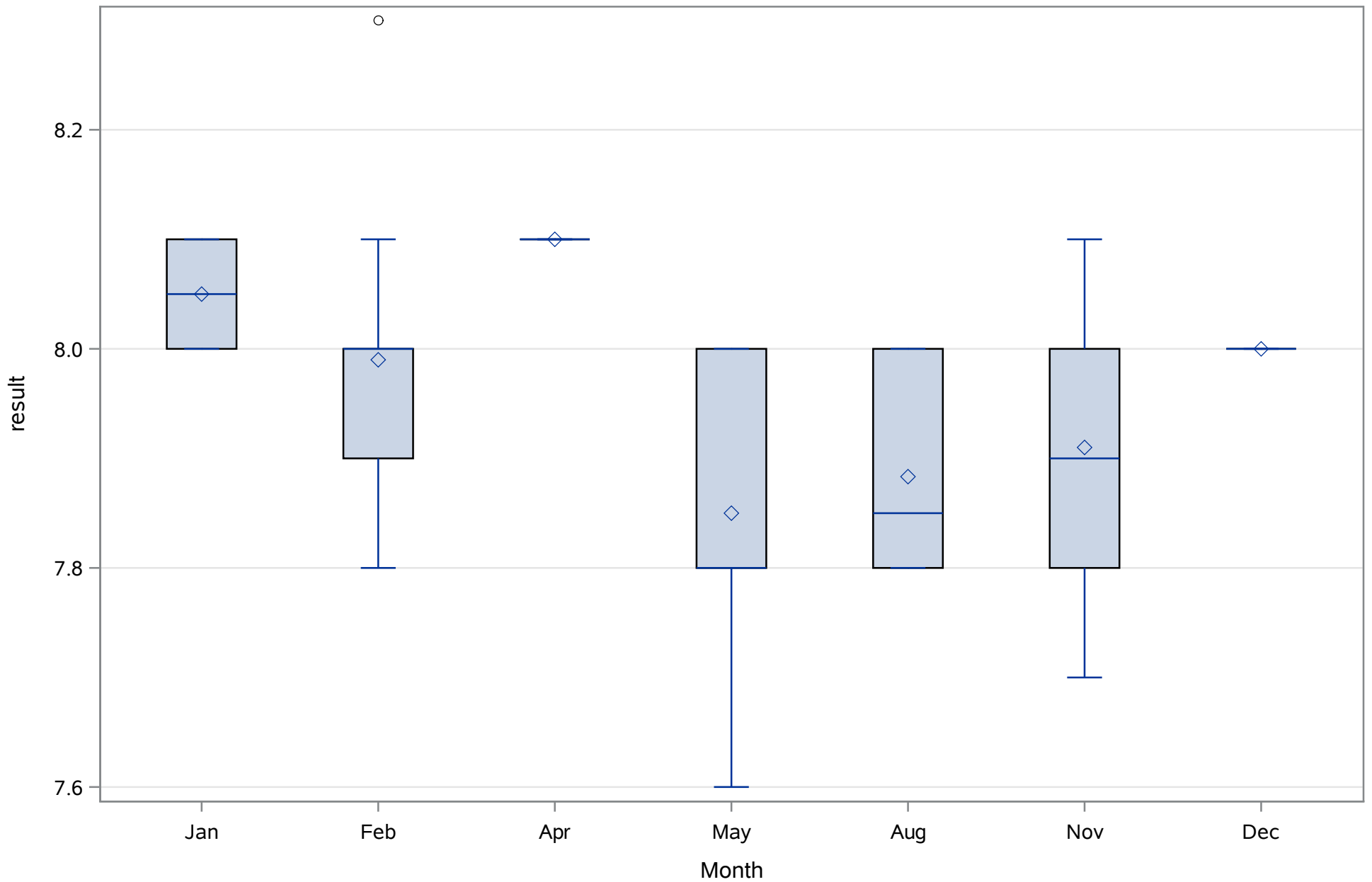
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TN_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 16
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	24	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	42	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	36	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	45	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	166.733333	Sum Observations	7503
Std Deviation	8.32138537	Variance	69.2454545
Skewness	0.00058998	Kurtosis	0.49136923
Uncorrected SS	1254047	Corrected SS	3046.8
Coeff Variation	4.99083489	Std Error Mean	1.24047889

Basic Statistical Measures			
Location		Variability	
Mean	166.7333	Std Deviation	8.32139
Median	167.0000	Variance	69.24545
Mode	163.0000	Range	41.00000
		Interquartile Range	10.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	134.4105	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	189
99%	189
95%	179
90%	178
75% Q3	172
50% Median	167
25% Q1	162
10%	156
5%	154
1%	148
0% Min	148

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
ALK_tot_mgL

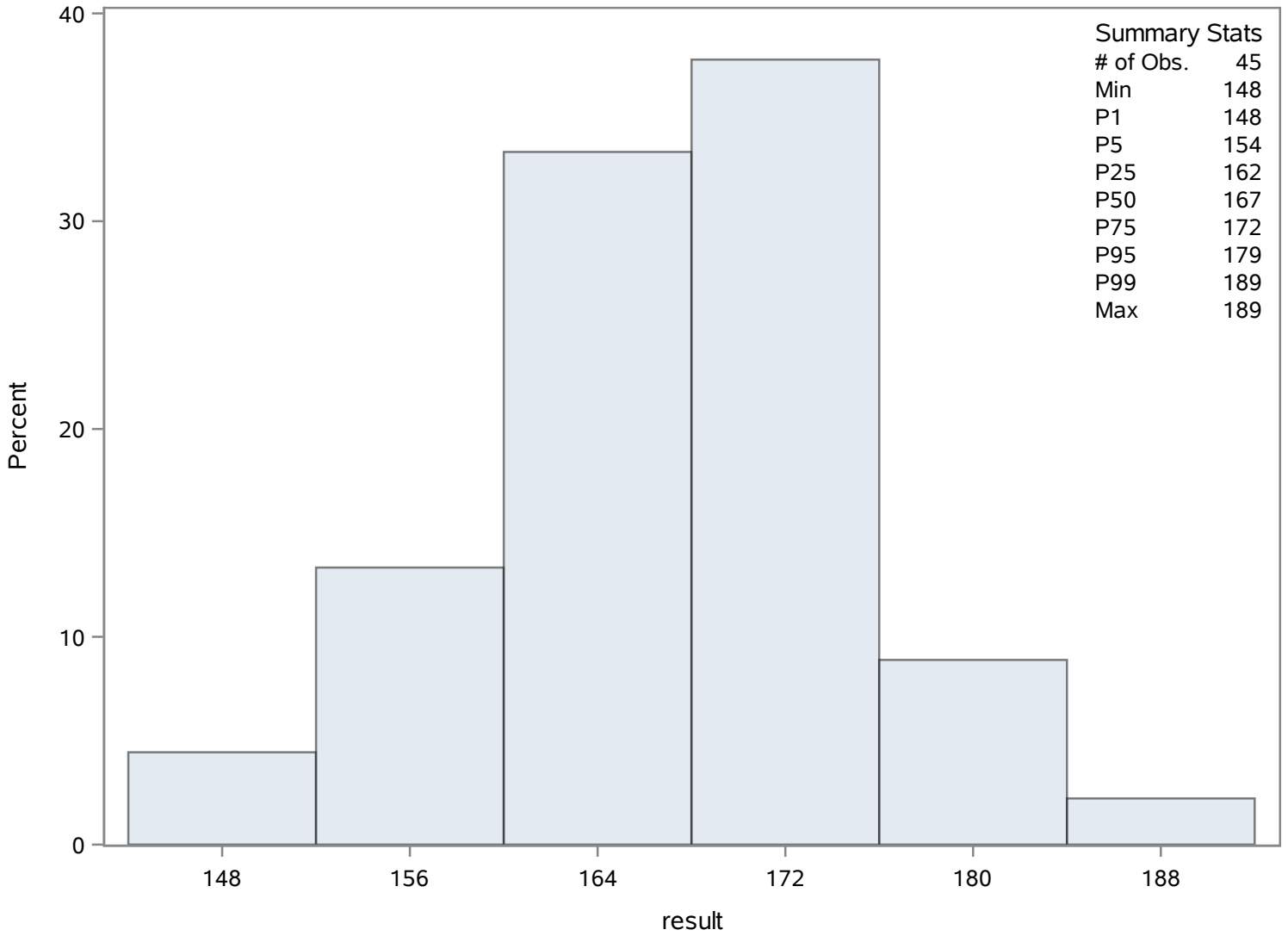
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
148	20	178	12
148	14	178	36
154	7	179	33
155	11	181	42
156	15	189	37

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	3.56102427	Sum Observations	160.246092
Std Deviation	2.06703275	Variance	4.2726244
Skewness	0.75912704	Kurtosis	-0.2733208
Uncorrected SS	758.635696	Corrected SS	187.995474
Coeff Variation	58.0460171	Std Error Mean	0.30813505

Basic Statistical Measures			
Location		Variability	
Mean	3.561024	Std Deviation	2.06703
Median	2.758621	Variance	4.27262
Mode	2.500000	Range	8.37000
		Interquartile Range	2.70000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.5567	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.970000
99%	8.970000
95%	7.540230
90%	6.250000
75% Q3	4.900000
50% Median	2.758621
25% Q1	2.200000
10%	1.300000
5%	0.988506
1%	0.600000
0% Min	0.600000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_Uncor_uGL

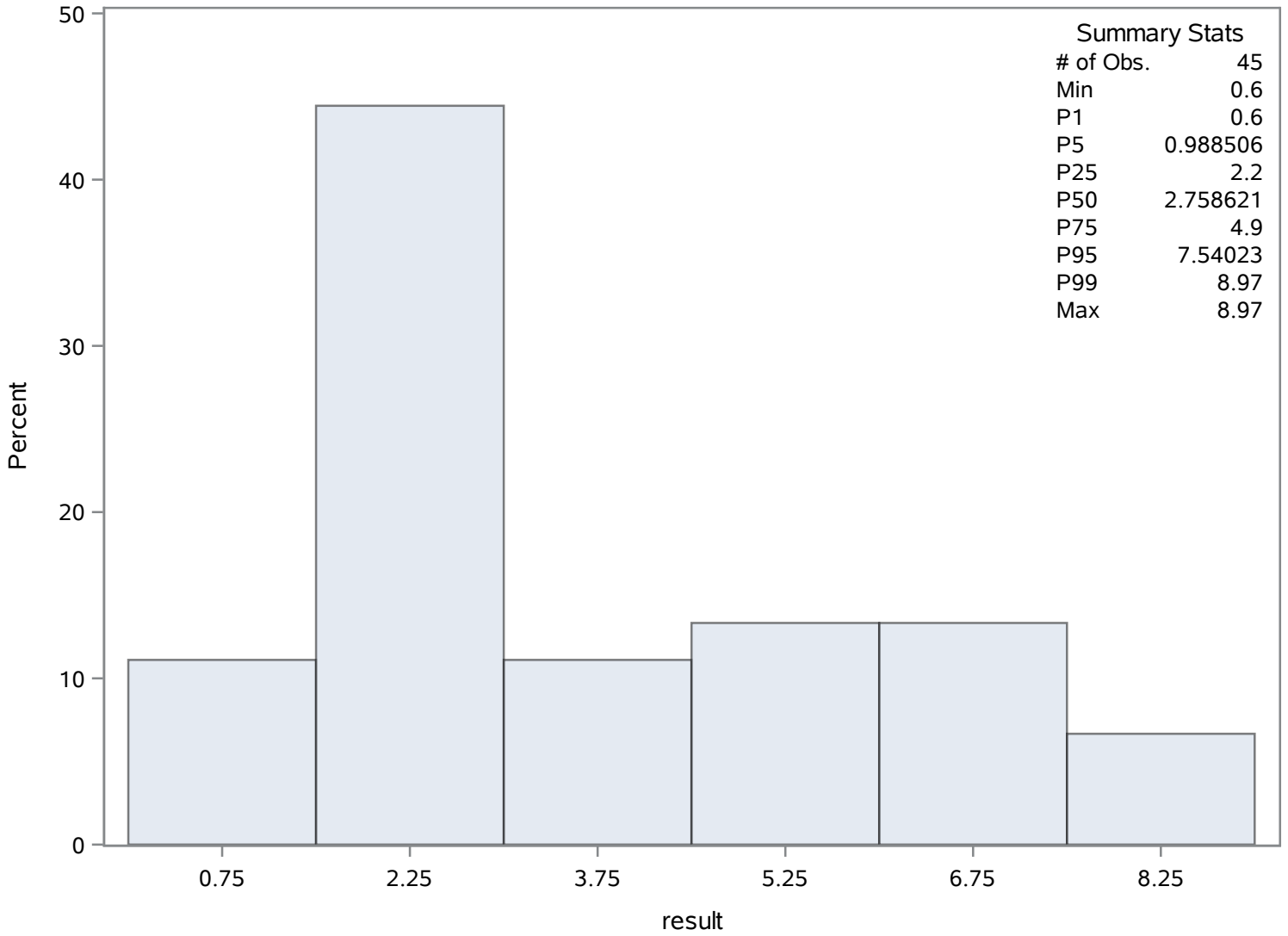
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.600000	67	6.25000	89
0.700000	49	6.50000	59
0.988506	68	7.54023	79
1.150000	87	7.63000	82
1.300000	50	8.97000	85

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	2.99966808	Sum Observations	71.992034
Std Deviation	1.88126729	Variance	3.5391666
Skewness	0.7132313	Kurtosis	-0.7330853
Uncorrected SS	297.353038	Corrected SS	81.4008318
Coeff Variation	62.7158483	Std Error Mean	0.38401208

Basic Statistical Measures			
Location		Variability	
Mean	2.999668	Std Deviation	1.88127
Median	2.120516	Variance	3.53917
Mode	1.450000	Range	6.53379
		Interquartile Range	3.24620

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	7.81139	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.260000
99%	7.260000
95%	5.810000
90%	5.474476
75% Q3	4.806204
50% Median	2.120516
25% Q1	1.560000
10%	1.005516
5%	0.890000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

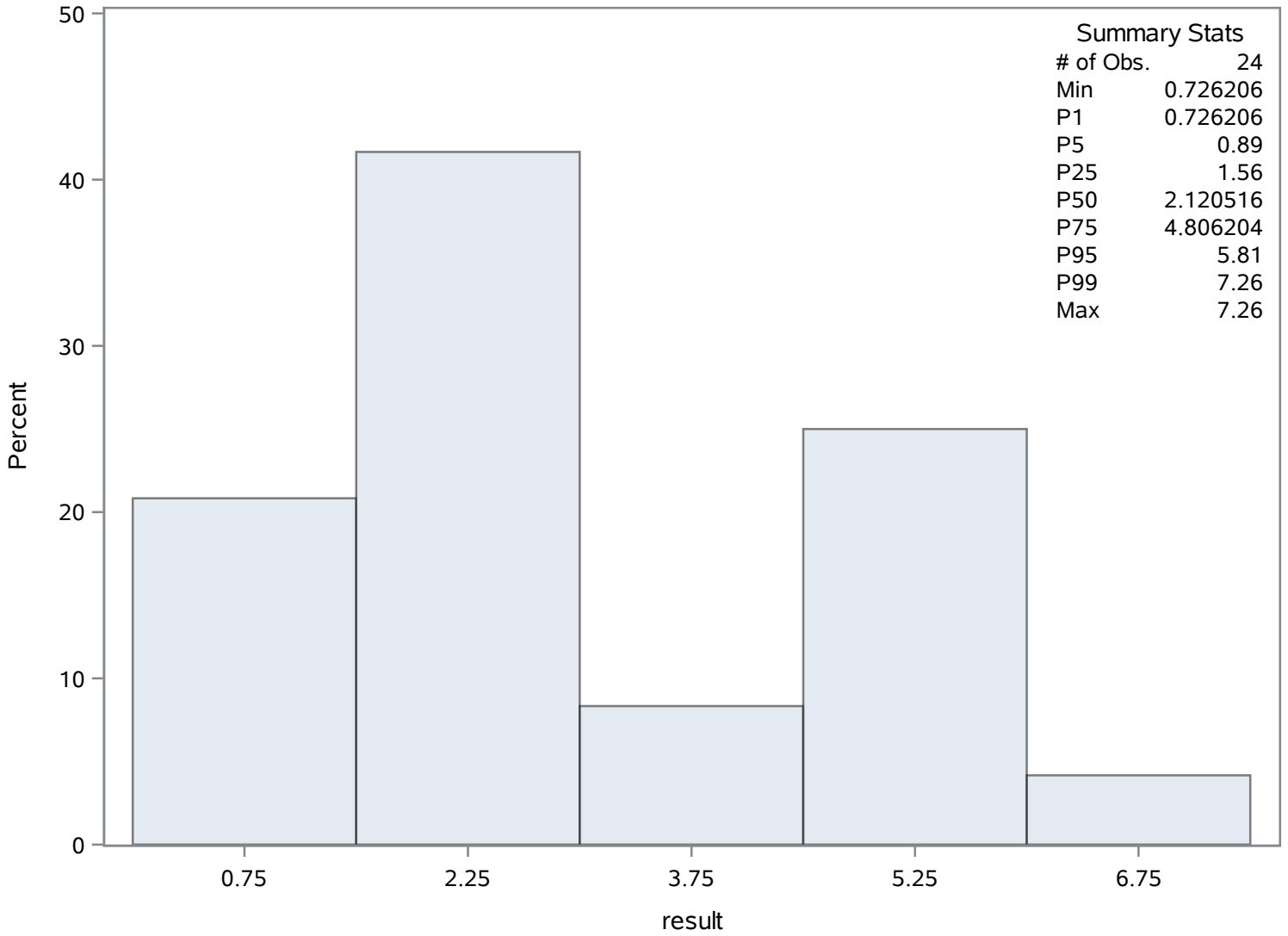
Quantiles (Definition 5)	
Level	Quantile
1%	0.726206
0% Min	0.726206

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.726206	92	5.14000	105
0.890000	111	5.36000	113
1.005516	95	5.47448	103
1.450000	114	5.81000	106
1.450000	104	7.26000	109

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	25.6222222	Sum Observations	1153
Std Deviation	10.6585196	Variance	113.60404
Skewness	1.02967867	Kurtosis	0.80481197
Uncorrected SS	34541	Corrected SS	4998.57778
Coeff Variation	41.5987322	Std Error Mean	1.58887829

Basic Statistical Measures			
Location		Variability	
Mean	25.62222	Std Deviation	10.65852
Median	23.00000	Variance	113.60404
Mode	21.00000	Range	43.00000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	16.12598	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	55
99%	55
95%	45
90%	39
75% Q3	30
50% Median	23
25% Q1	17
10%	14
5%	13
1%	12
0% Min	12

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
COLOR_PtCo

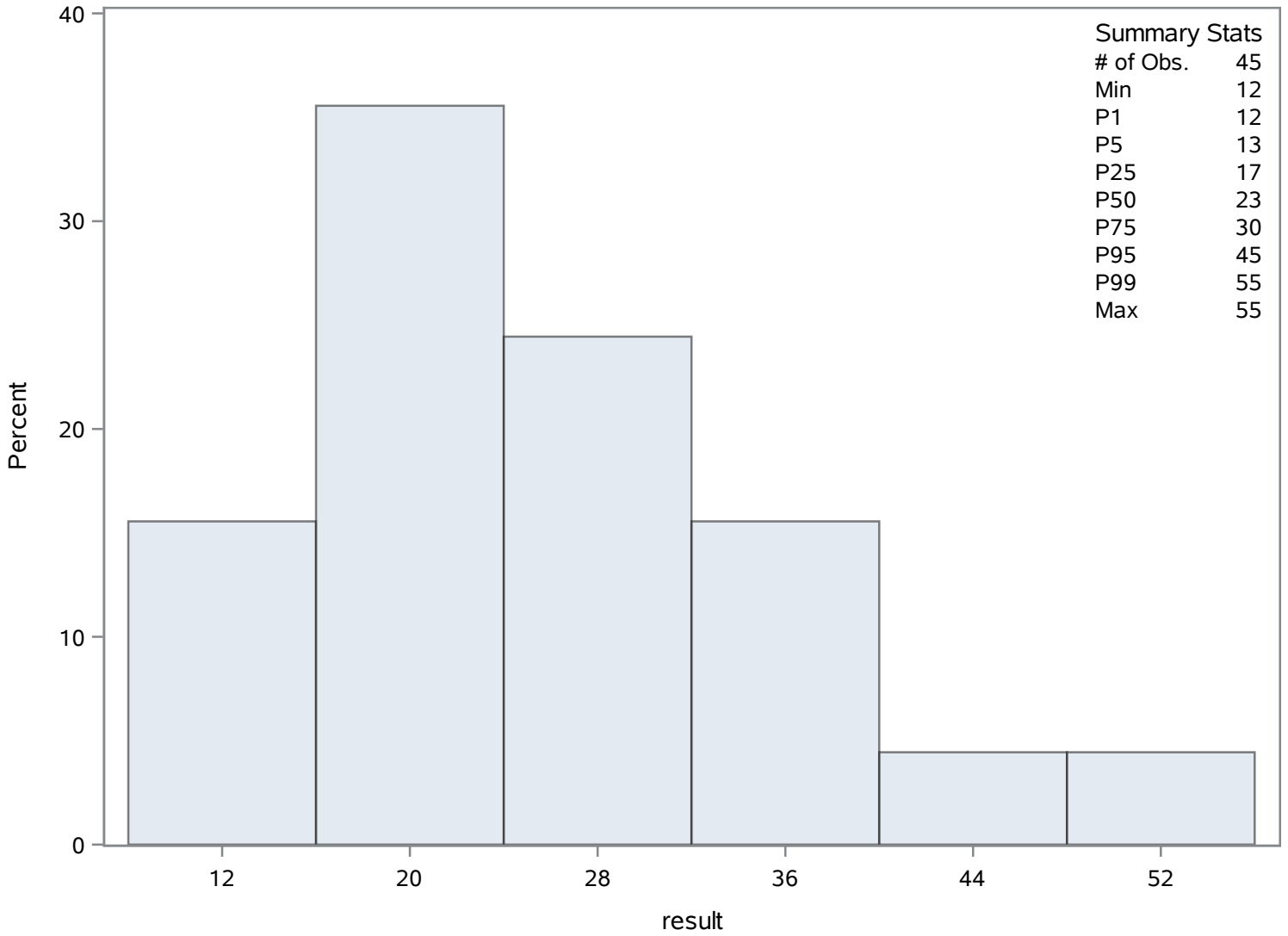
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12	149	39	135
13	141	41	158
13	122	45	154
14	156	55	127
14	129	55	143

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	6.74266667	Sum Observations	303.42
Std Deviation	2.00202897	Variance	4.00812
Skewness	0.66986589	Kurtosis	0.10335386
Uncorrected SS	2222.2172	Corrected SS	176.35728
Coeff Variation	29.6919464	Std Error Mean	0.29844486

Basic Statistical Measures			
Location		Variability	
Mean	6.742667	Std Deviation	2.00203
Median	6.380000	Variance	4.00812
Mode	4.000000	Range	8.90000
		Interquartile Range	3.00000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	22.59267	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.40
99%	12.40
95%	10.41
90%	9.32
75% Q3	8.30
50% Median	6.38
25% Q1	5.30
10%	4.70
5%	4.00

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
DO_mgL

The UNIVARIATE Procedure
Variable: result

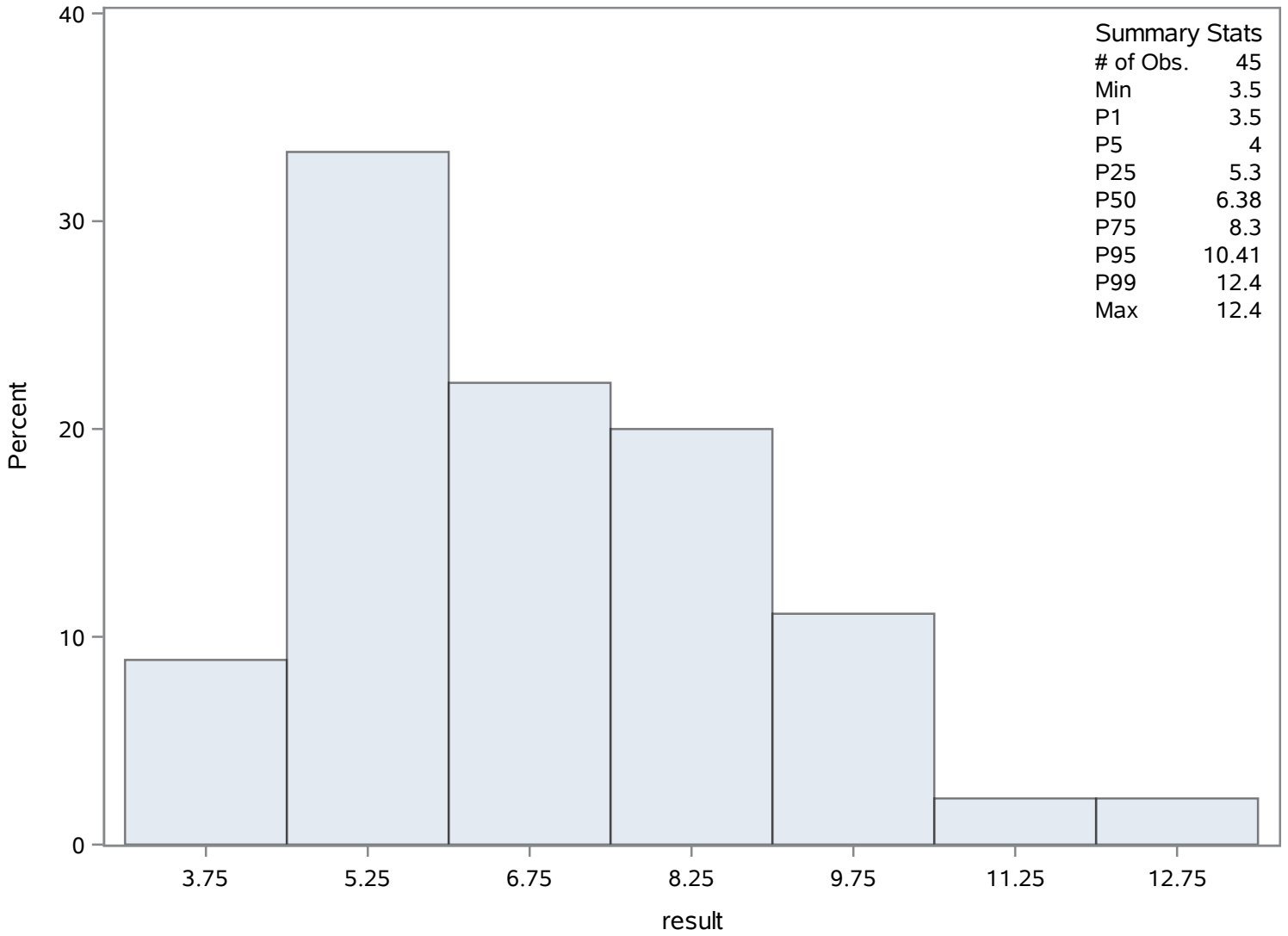
Quantiles (Definition 5)	
Level	Quantile
1%	3.50
0% Min	3.50

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.50	165	9.32	178
3.82	203	9.43	182
4.00	169	10.41	181
4.00	168	10.56	201
4.70	162	12.40	163

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	33.3733333	Sum Observations	1501.8
Std Deviation	20.8333038	Variance	434.026545
Skewness	0.71836763	Kurtosis	0.07891071
Uncorrected SS	69217.24	Corrected SS	19097.168
Coeff Variation	62.4250013	Std Error Mean	3.10564556

Basic Statistical Measures			
Location		Variability	
Mean	33.37333	Std Deviation	20.83330
Median	30.00000	Variance	434.02655
Mode	14.00000	Range	83.00000
		Interquartile Range	21.00000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.74602	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	84
99%	84
95%	77
90%	69
75% Q3	42
50% Median	30
25% Q1	21
10%	10
5%	3

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NH4_ugl

The UNIVARIATE Procedure
Variable: result

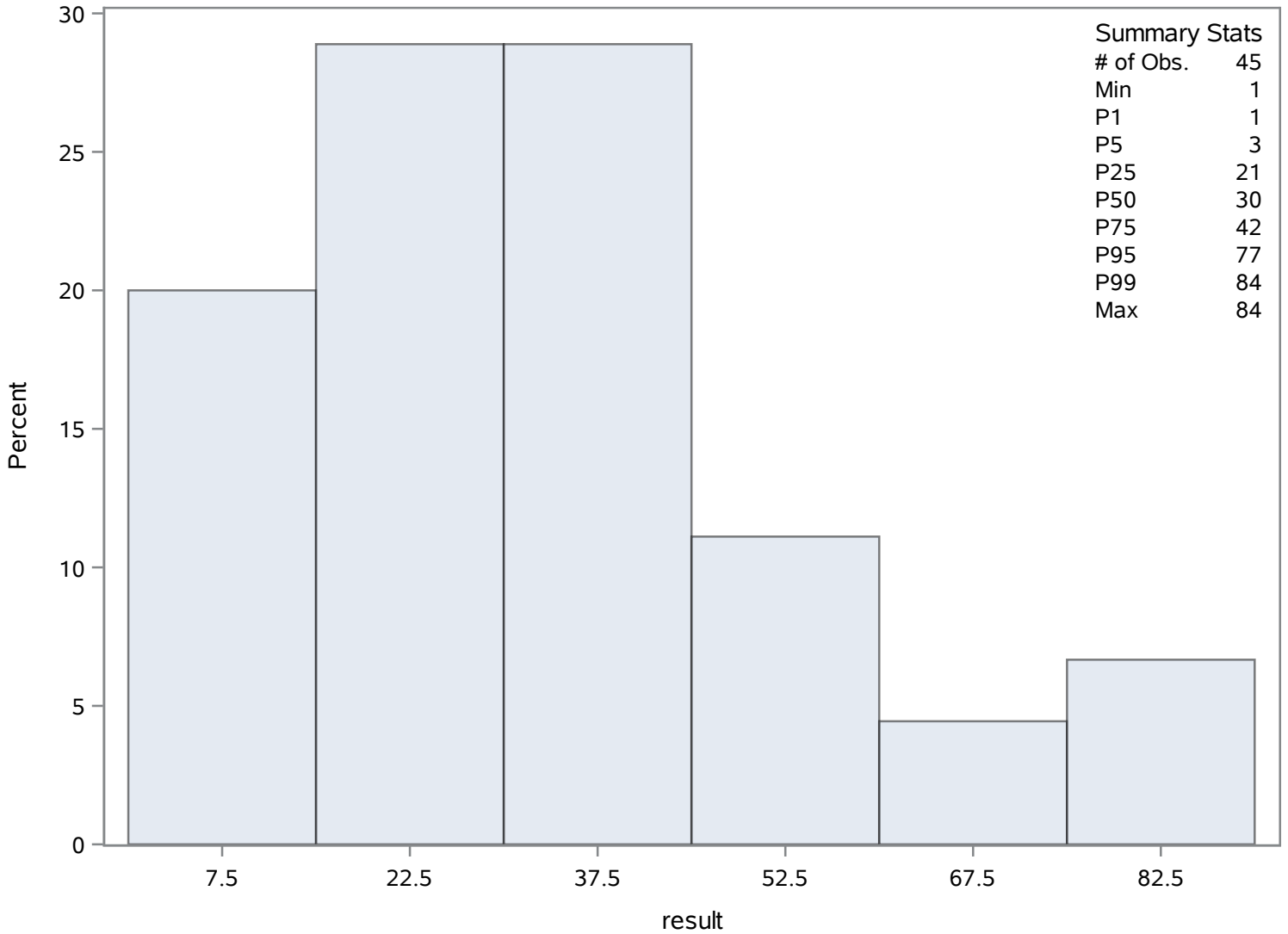
Quantiles (Definition 5)	
Level	Quantile
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	226	69	238
2.0	228	73	249
3.0	219	77	229
6.8	231	78	210
10.0	218	84	211

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	48.8244444	Sum Observations	2197.1
Std Deviation	44.7842868	Variance	2005.63234
Skewness	1.42182387	Kurtosis	1.22302571
Uncorrected SS	195520.01	Corrected SS	88247.8231
Coeff Variation	91.7251334	Std Error Mean	6.67604731

Basic Statistical Measures			
Location		Variability	
Mean	48.82444	Std Deviation	44.78429
Median	37.00000	Variance	2006
Mode	5.00000	Range	164.00000
		Interquartile Range	41.00000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7.313376	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	169
99%	169
95%	150
90%	128
75% Q3	59
50% Median	37
25% Q1	18
10%	8
5%	6

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NO3_ugL

The UNIVARIATE Procedure
Variable: result

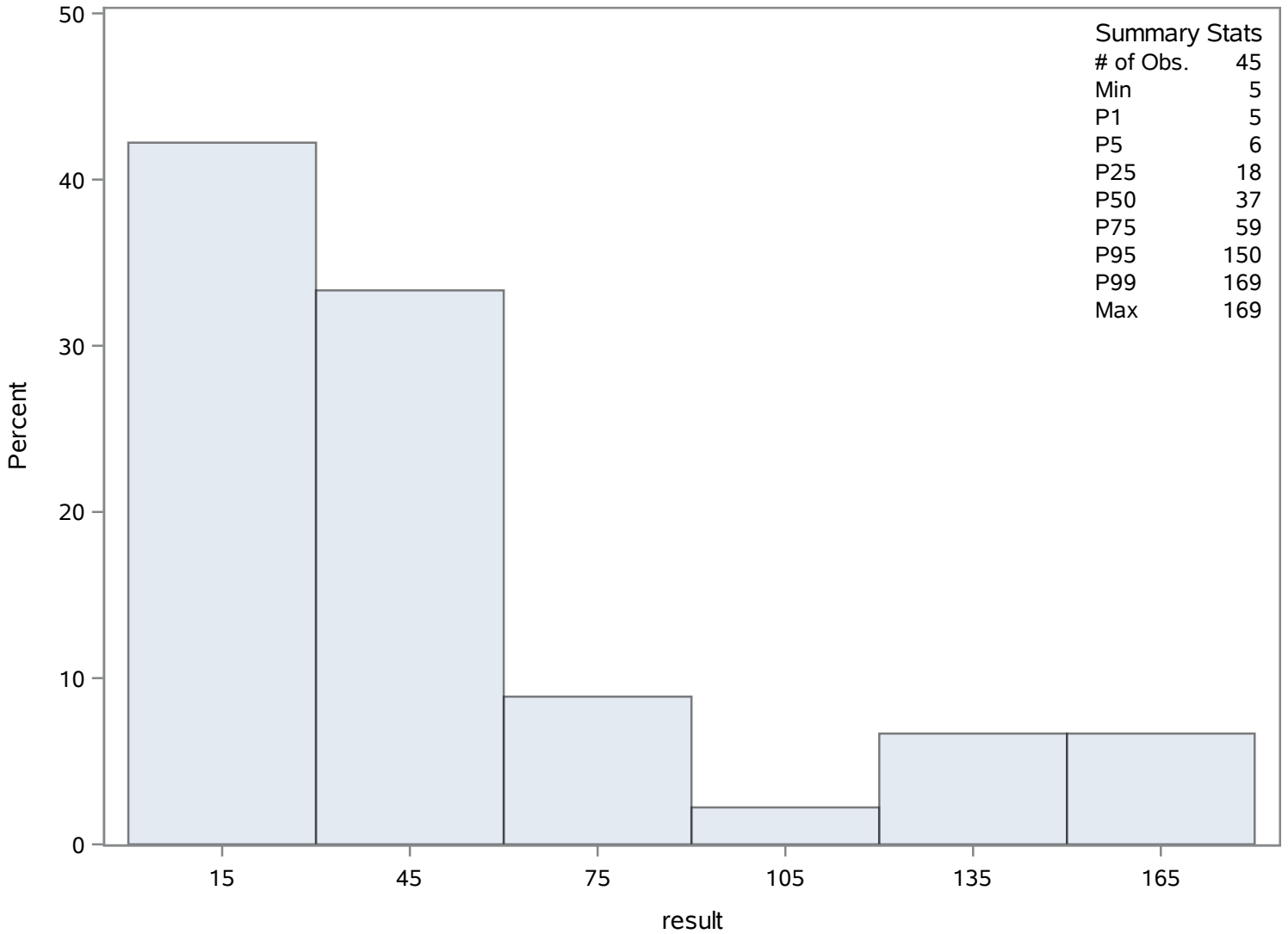
Quantiles (Definition 5)	
Level	Quantile
1%	5
0% Min	5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	254	128	252
5	253	129	274
6	290	150	267
6	289	169	293
8	268	169	294

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	11.4515556	Sum Observations	515.32
Std Deviation	4.34768275	Variance	18.9023453
Skewness	0.65232892	Kurtosis	0.47936158
Uncorrected SS	6732.9188	Corrected SS	831.703191
Coeff Variation	37.9658704	Std Error Mean	0.64811428

Basic Statistical Measures			
Location		Variability	
Mean	11.45156	Std Deviation	4.34768
Median	11.10000	Variance	18.90235
Mode	.	Range	19.68000
		Interquartile Range	3.93000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.66904	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	22.45
99%	22.45
95%	20.20
90%	17.92
75% Q3	12.74
50% Median	11.10
25% Q1	8.81
10%	6.37
5%	5.64
1%	2.77
0% Min	2.77

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SAL_Perc

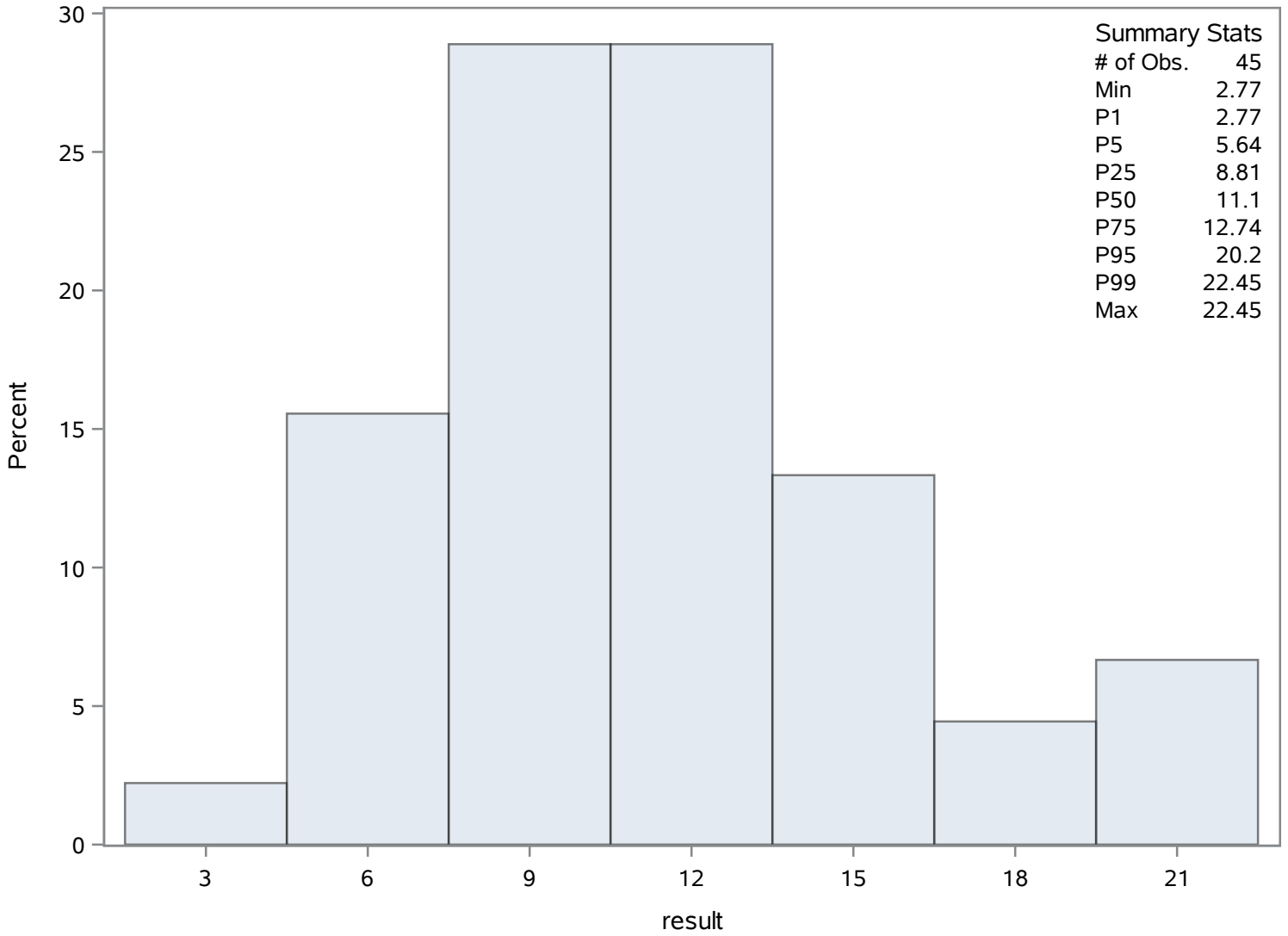
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.77	307	17.92	327
5.17	315	18.40	303
5.64	316	20.20	299
5.80	297	22.10	332
6.37	305	22.45	322

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	19.1895556	Sum Observations	863.53
Std Deviation	6.80757197	Variance	46.3430362
Skewness	0.50336563	Kurtosis	0.19919959
Uncorrected SS	18609.8505	Corrected SS	2039.09359
Coeff Variation	35.475402	Std Error Mean	1.01481291

Basic Statistical Measures			
Location		Variability	
Mean	19.18956	Std Deviation	6.80757
Median	18.66000	Variance	46.34304
Mode	.	Range	30.46000
		Interquartile Range	6.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.90945	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	35.61
99%	35.61
95%	32.48
90%	29.16
75% Q3	21.48
50% Median	18.66
25% Q1	15.28
10%	10.18
5%	9.59
1%	5.15
0% Min	5.15

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SPCOND_mS_cm

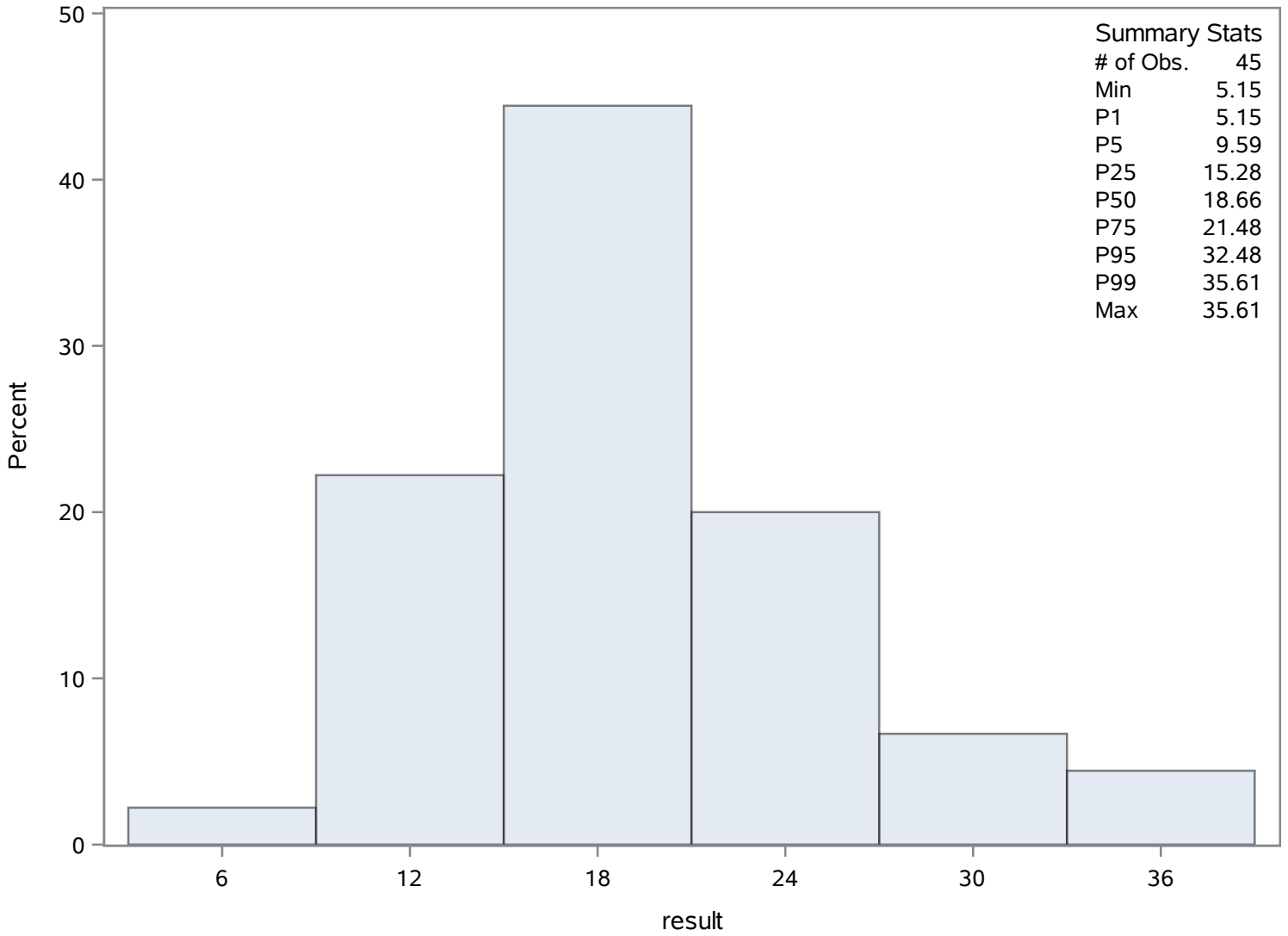
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.15	352	29.16	372
9.30	360	29.92	348
9.59	350	32.48	344
10.00	361	35.02	377
10.18	342	35.61	367

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	42	Sum Weights	42
Mean	3.38095238	Sum Observations	142
Std Deviation	2.56574414	Variance	6.58304297
Skewness	1.49078182	Kurtosis	1.34509495
Uncorrected SS	750	Corrected SS	269.904762
Coeff Variation	75.8882069	Std Error Mean	0.39590292

Basic Statistical Measures			
Location		Variability	
Mean	3.380952	Std Deviation	2.56574
Median	2.000000	Variance	6.58304
Mode	2.000000	Range	10.00000
		Interquartile Range	2.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	8.539852	Pr > t 	<.0001
Sign	M	21	Pr >= M 	<.0001
Signed Rank	S	451.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11
99%	11
95%	9
90%	7
75% Q3	4
50% Median	2
25% Q1	2
10%	1
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SRP_ugL

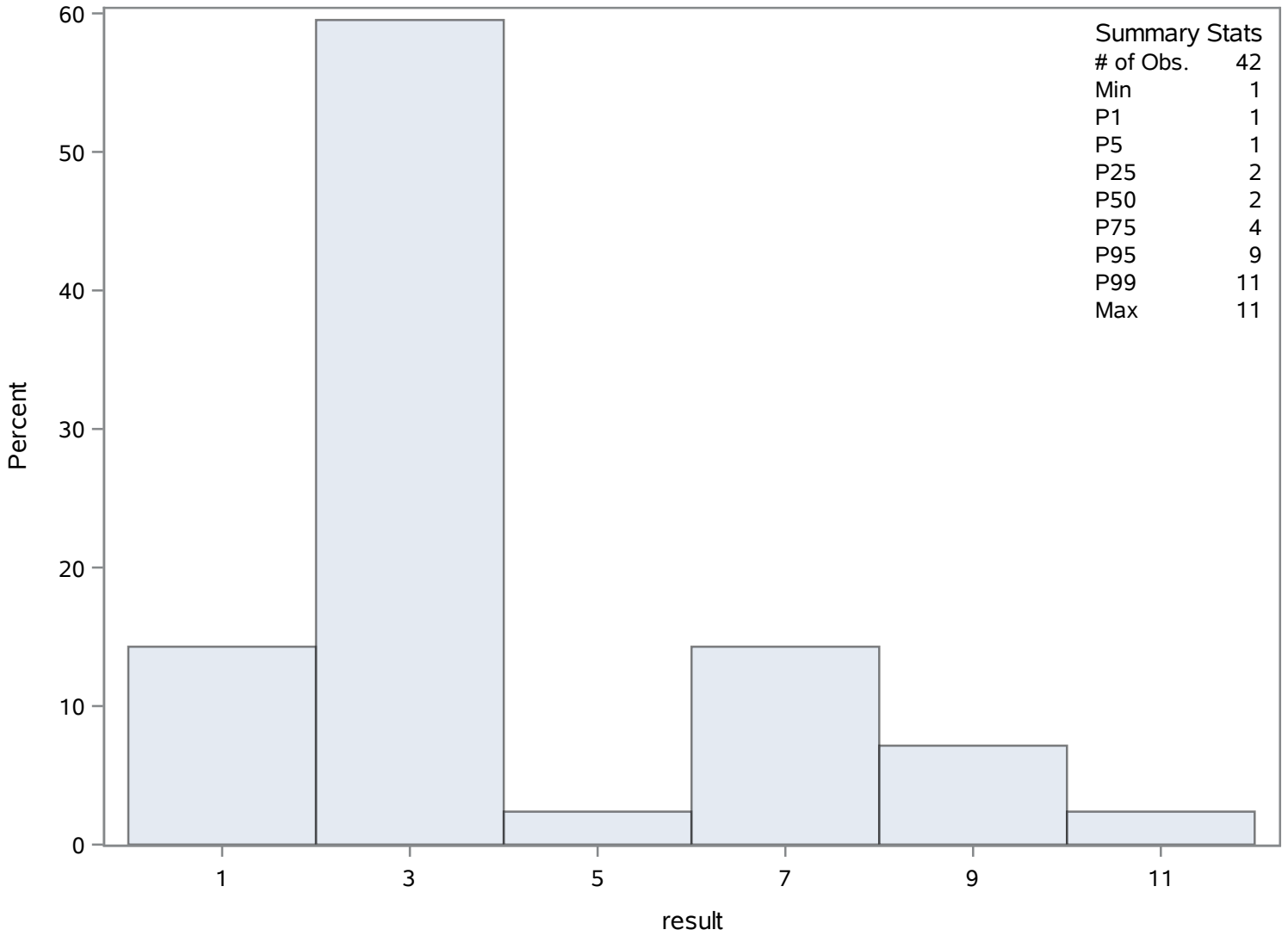
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	413	7	412
1	407	9	396
1	399	9	425
1	398	9	426
1	393	11	387

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	23.488	Sum Observations	1056.96
Std Deviation	5.61707688	Variance	31.5515527
Skewness	-0.0064713	Kurtosis	-1.4627521
Uncorrected SS	26214.1448	Corrected SS	1388.26832
Coeff Variation	23.9146666	Std Error Mean	0.83734438

Basic Statistical Measures			
Location		Variability	
Mean	23.48800	Std Deviation	5.61708
Median	22.30000	Variance	31.55155
Mode	16.02000	Range	18.30000
		Interquartile Range	10.81000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	28.05059	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.38
99%	31.38
95%	31.22
90%	30.80
75% Q3	29.33
50% Median	22.30
25% Q1	18.52
10%	16.02
5%	15.31
1%	13.08
0% Min	13.08

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TEMP_C

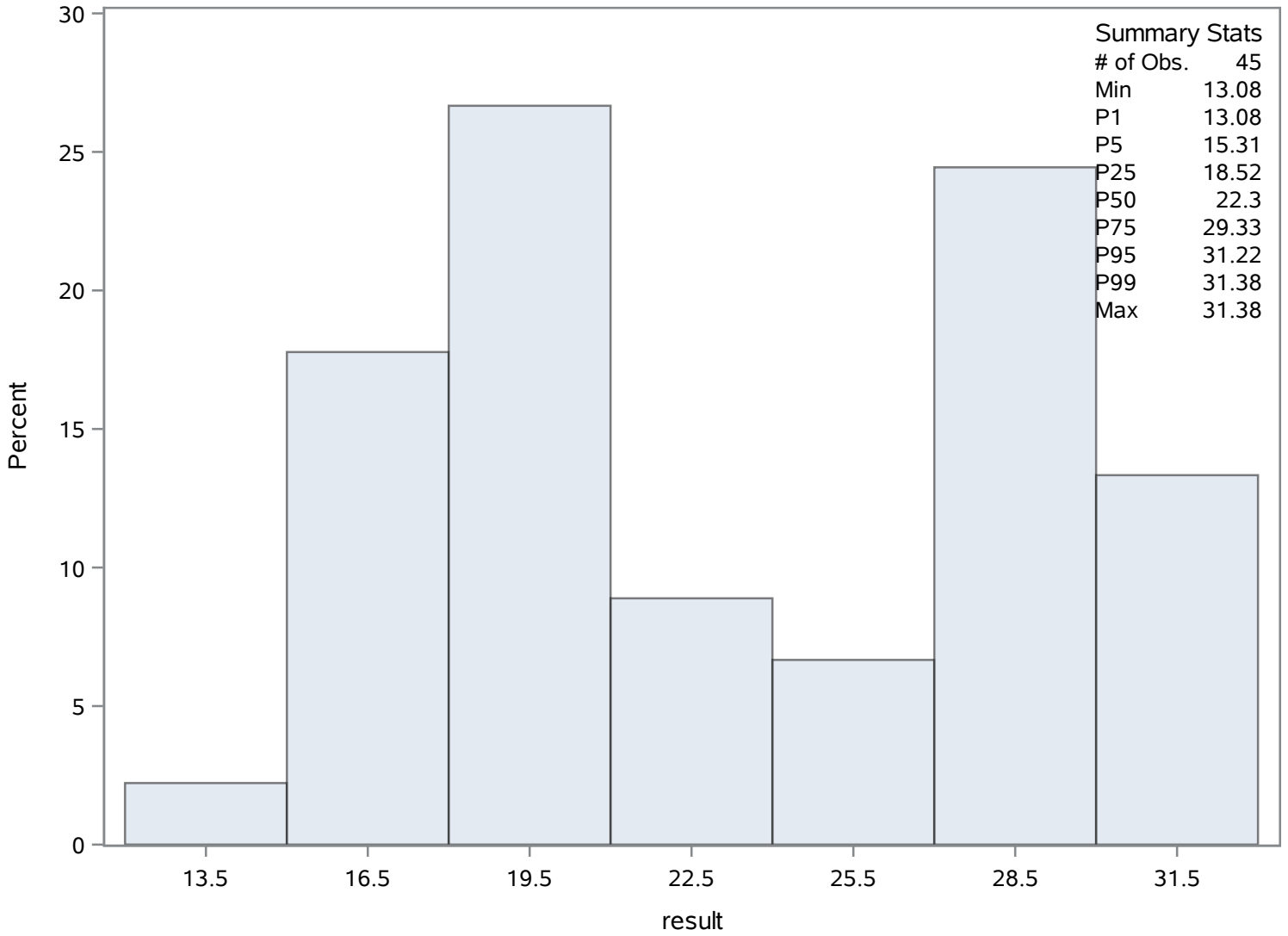
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.08	427	30.80	428
15.10	468	31.15	463
15.31	461	31.22	451
16.02	448	31.35	466
16.02	445	31.38	455

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	461.6	Sum Observations	20772
Std Deviation	126.513276	Variance	16005.6091
Skewness	0.25467505	Kurtosis	-0.5015244
Uncorrected SS	10292602	Corrected SS	704246.8
Coeff Variation	27.4075555	Std Error Mean	18.8594857

Basic Statistical Measures			
Location		Variability	
Mean	461.6000	Std Deviation	126.51328
Median	440.0000	Variance	16006
Mode	320.0000	Range	550.00000
		Interquartile Range	190.00000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.47575	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	750
99%	750
95%	650
90%	620
75% Q3	550
50% Median	440
25% Q1	360
10%	320
5%	280

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TN_ugl

The UNIVARIATE Procedure
Variable: result

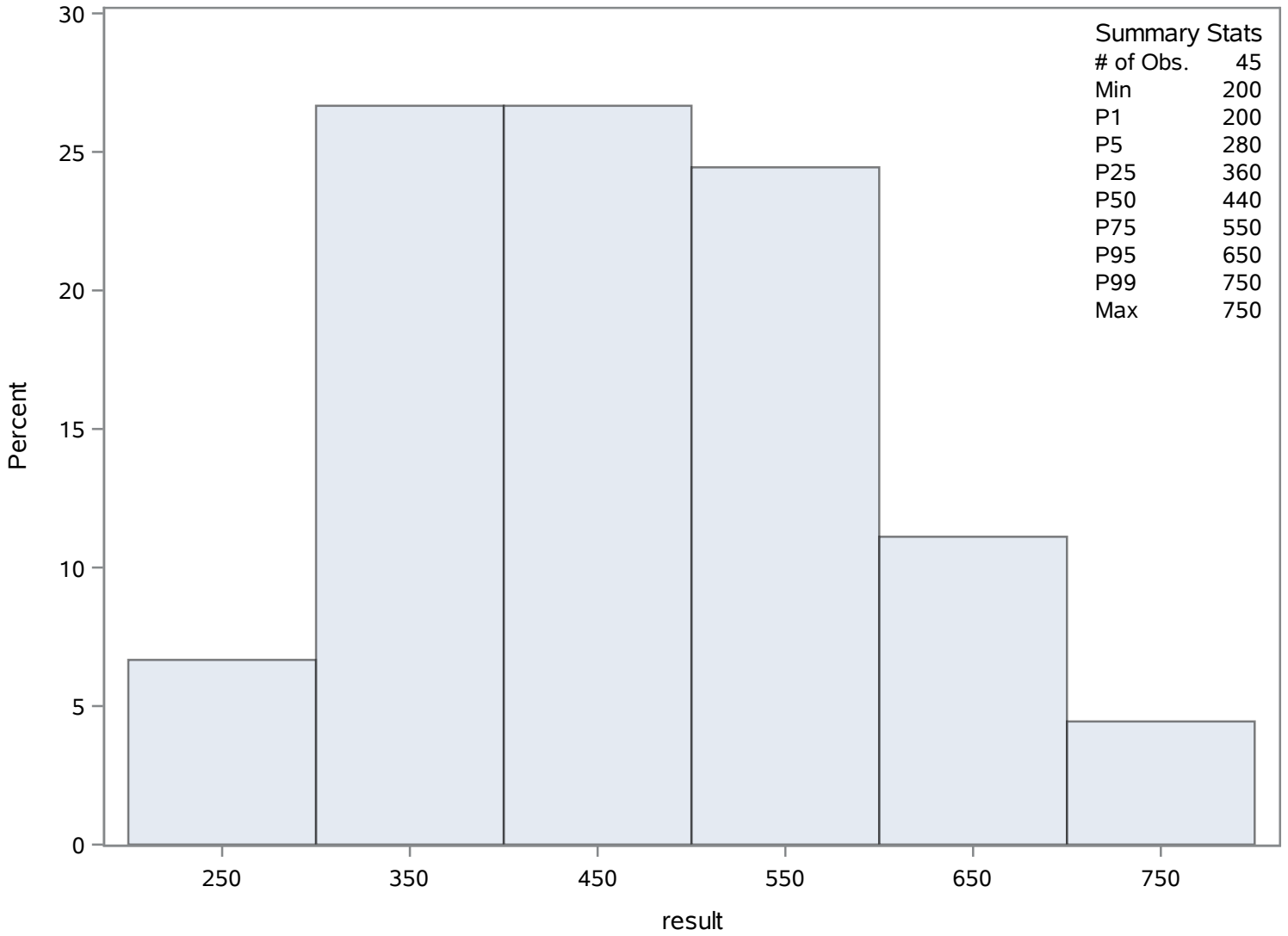
Quantiles (Definition 5)	
Level	Quantile
1%	200
0% Min	200

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
200	489	620	507
280	494	630	485
280	475	650	508
300	482	730	511
320	513	750	500

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	18.9777778	Sum Observations	854
Std Deviation	11.5453432	Variance	133.294949
Skewness	4.29017152	Kurtosis	23.3619002
Uncorrected SS	22072	Corrected SS	5864.97778
Coeff Variation	60.8361175	Std Error Mean	1.72107815

Basic Statistical Measures			
Location		Variability	
Mean	18.97778	Std Deviation	11.54534
Median	17.00000	Variance	133.29495
Mode	15.00000	Range	79.00000
		Interquartile Range	5.00000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	11.02668	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	84
99%	84
95%	32
90%	25
75% Q3	20
50% Median	17
25% Q1	15
10%	10
5%	9

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TP_ugl

The UNIVARIATE Procedure
Variable: result

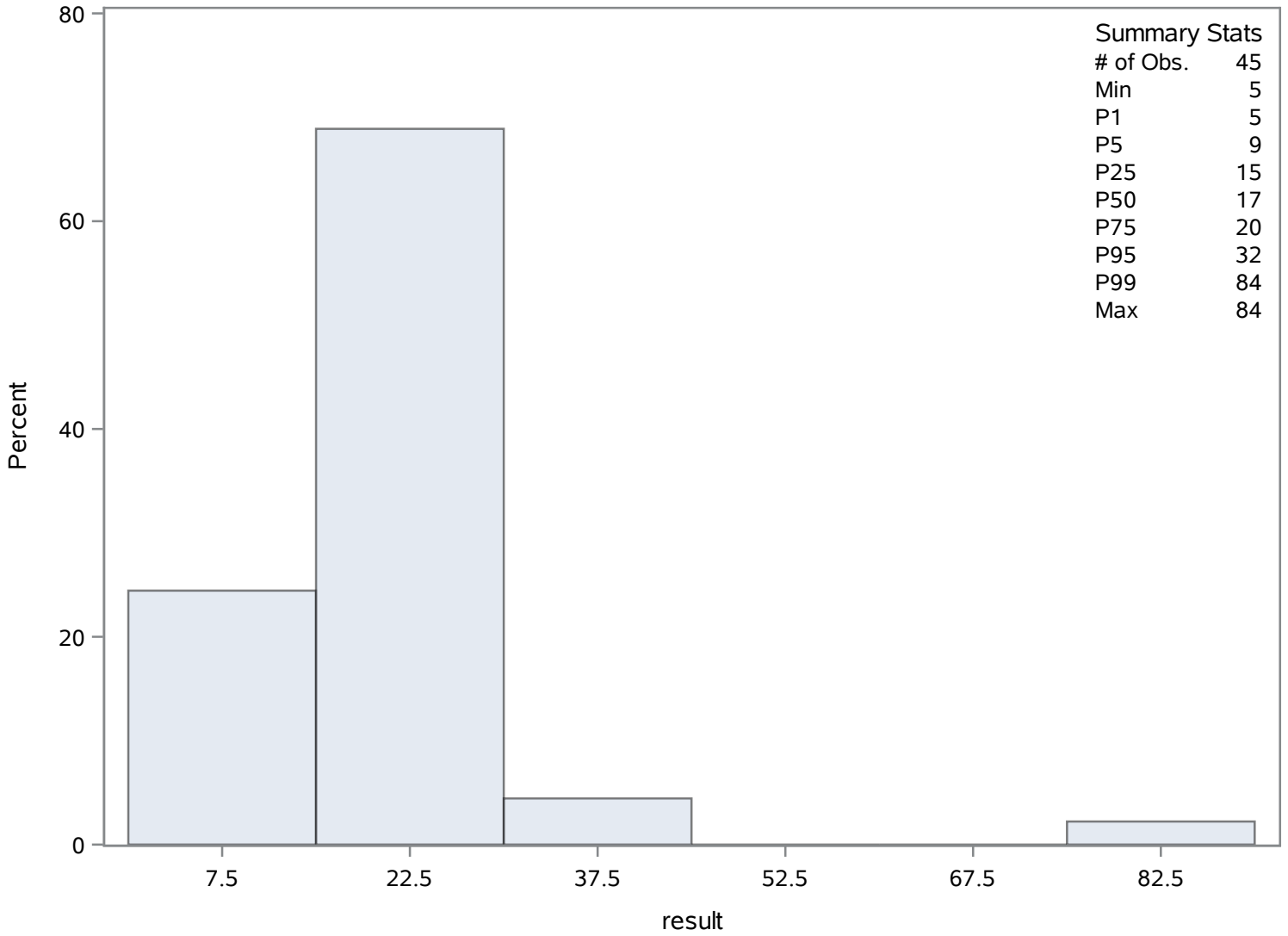
Quantiles (Definition 5)	
Level	Quantile
1%	5
0% Min	5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	558	25	556
9	543	29	553
9	542	32	529
10	547	38	552
10	539	84	555

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	7.90444444	Sum Observations	284.56
Std Deviation	0.20999924	Variance	0.04409968
Skewness	0.07622719	Kurtosis	-0.8641669
Uncorrected SS	2250.8322	Corrected SS	1.54348889
Coeff Variation	2.65672364	Std Error Mean	0.03499987

Basic Statistical Measures			
Location		Variability	
Mean	7.904444	Std Deviation	0.21000
Median	7.870000	Variance	0.04410
Mode	8.030000	Range	0.76000
		Interquartile Range	0.29500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	225.8421	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.290
99%	8.290
95%	8.270
90%	8.180
75% Q3	8.055
50% Median	7.870
25% Q1	7.760
10%	7.600
5%	7.550
1%	7.530
0% Min	7.530

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Field

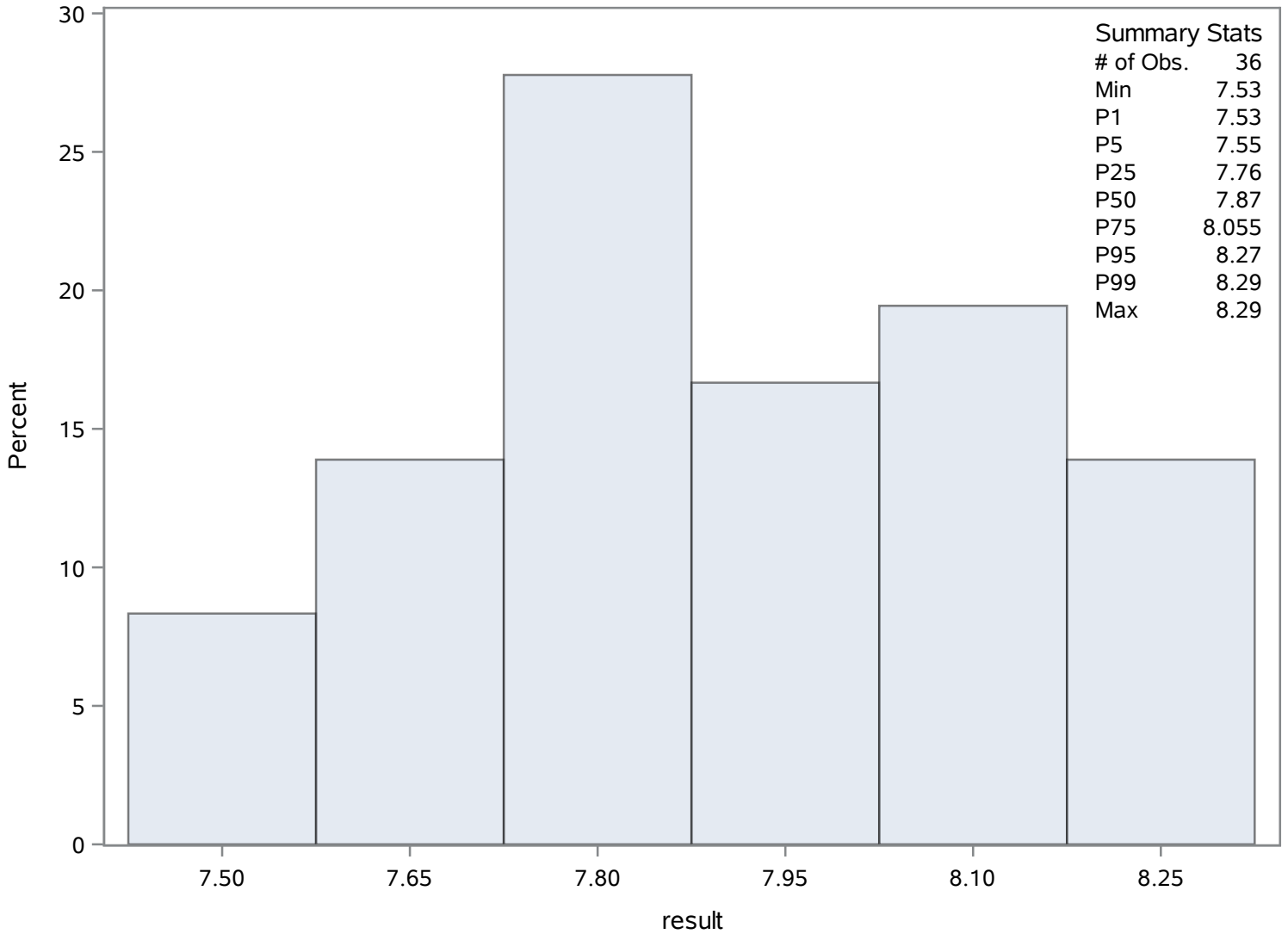
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.53	584	8.18	582
7.55	585	8.18	590
7.57	592	8.23	574
7.60	573	8.27	579
7.68	588	8.29	594

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	7.97555556	Sum Observations	358.9
Std Deviation	0.14794894	Variance	0.02188889
Skewness	0.70715789	Kurtosis	0.25528248
Uncorrected SS	2863.39	Corrected SS	0.96311111
Coeff Variation	1.8550299	Std Error Mean	0.02205493

Basic Statistical Measures			
Location		Variability	
Mean	7.975556	Std Deviation	0.14795
Median	8.000000	Variance	0.02189
Mode	7.800000	Range	0.60000
		Interquartile Range	0.20000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	361.6224	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.4
99%	8.4
95%	8.2
90%	8.2
75% Q3	8.1
50% Median	8.0
25% Q1	7.9
10%	7.8
5%	7.8

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Lab

The UNIVARIATE Procedure
Variable: result

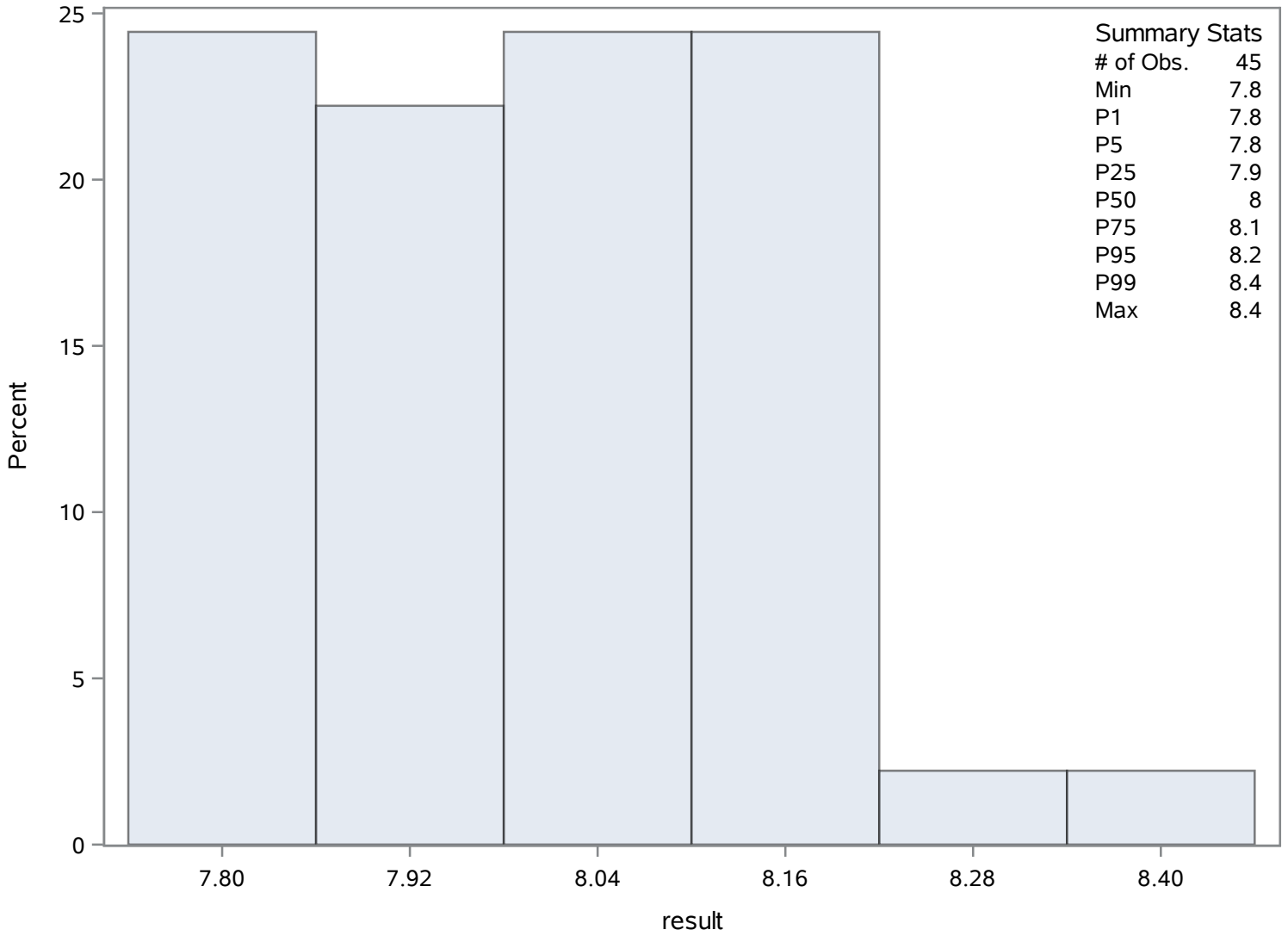
Quantiles (Definition 5)	
Level	Quantile
1%	7.8
0% Min	7.8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.8	641	8.2	609
7.8	637	8.2	620
7.8	633	8.2	635
7.8	629	8.3	601
7.8	625	8.4	639

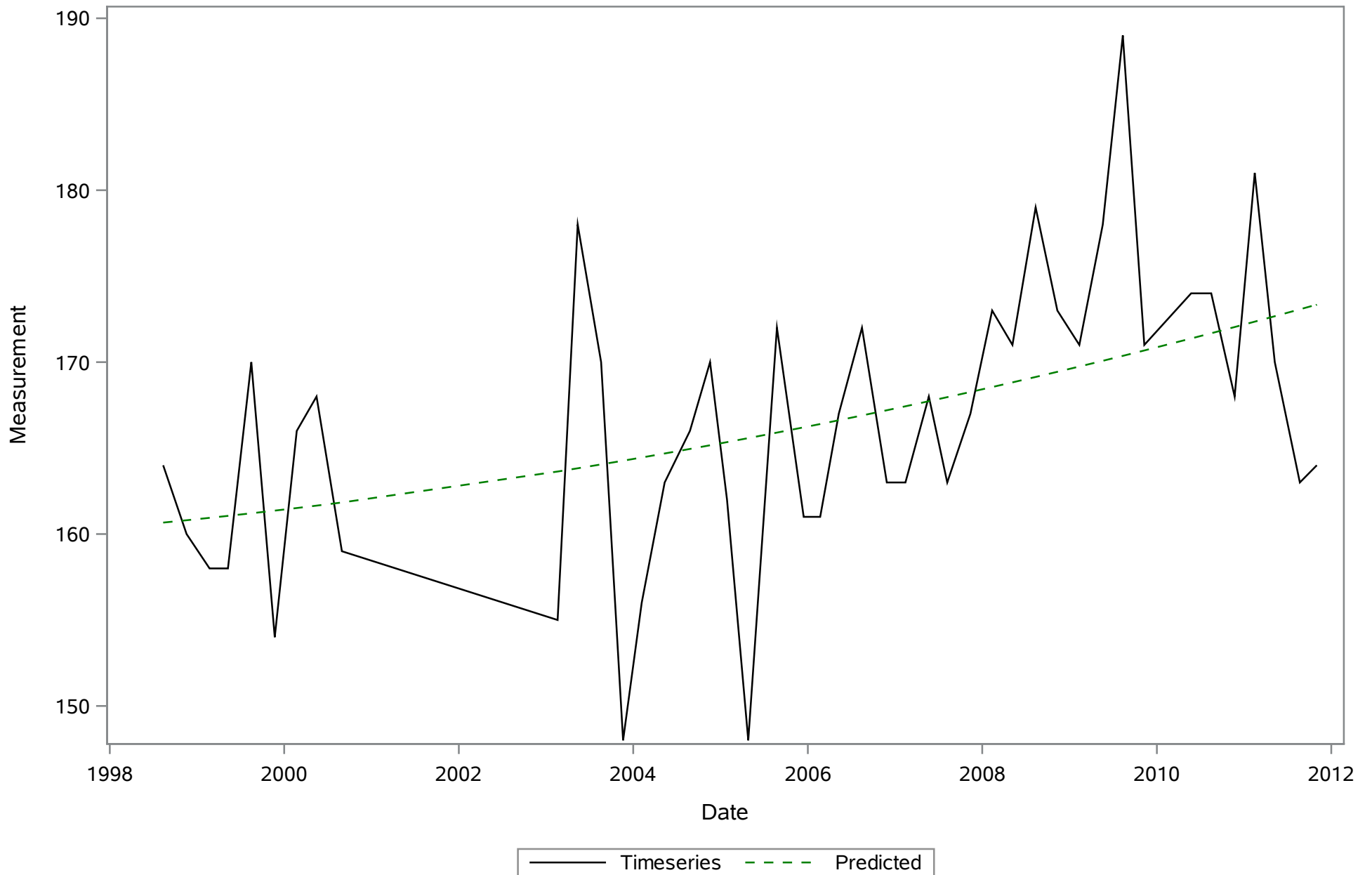
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Lab

The UNIVARIATE Procedure

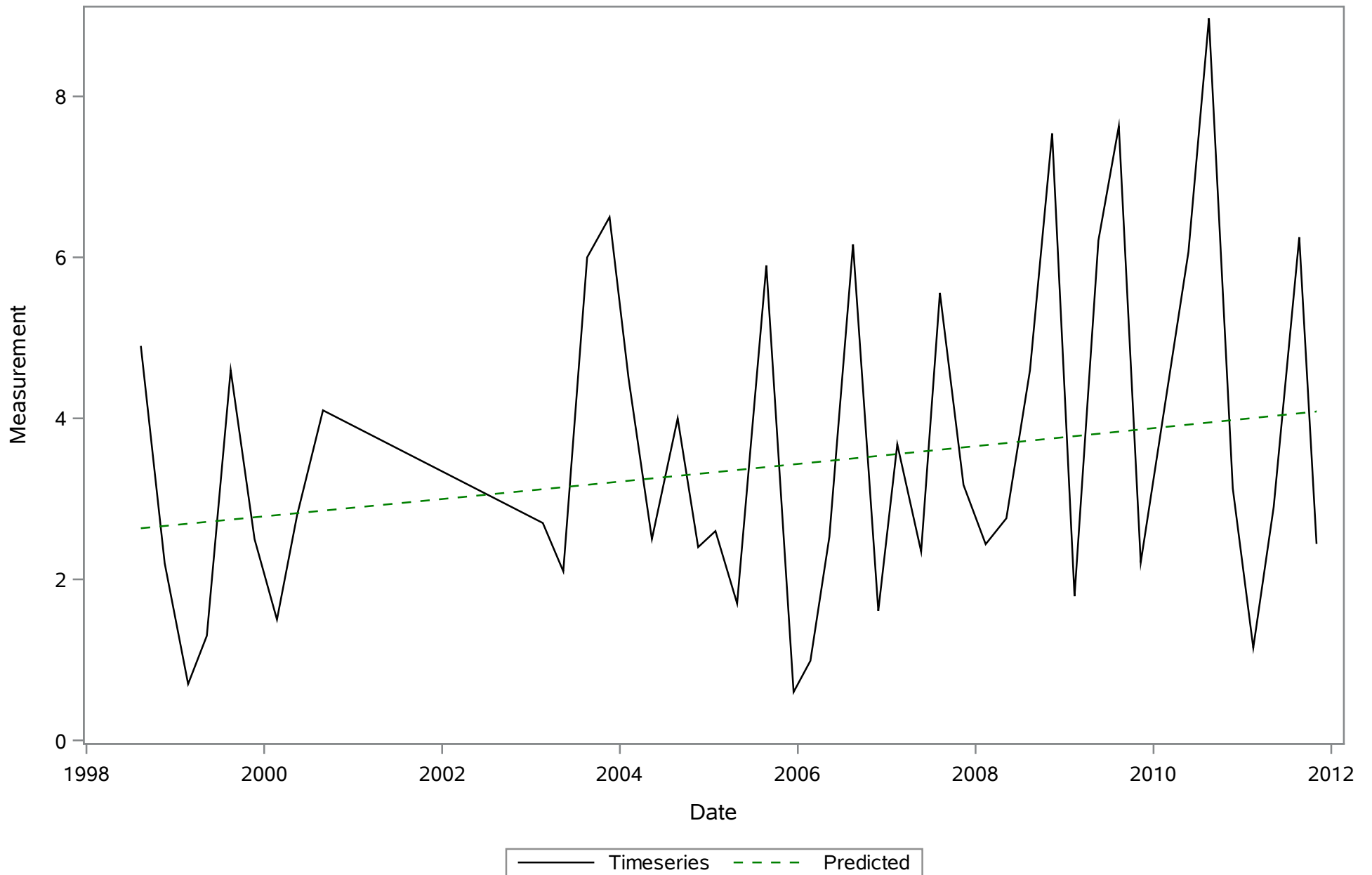
Distribution of result



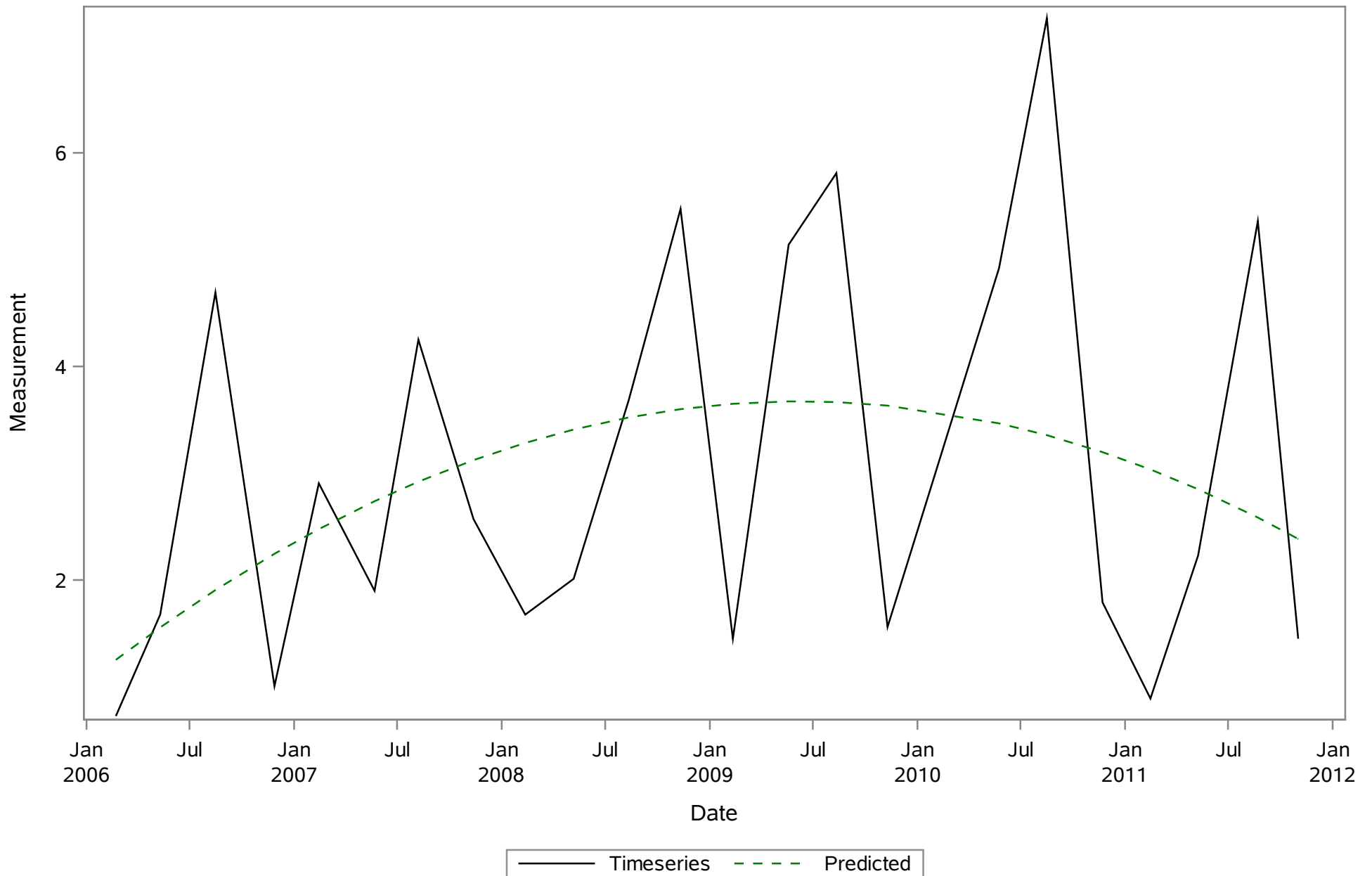
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
ALK_tot_mgL



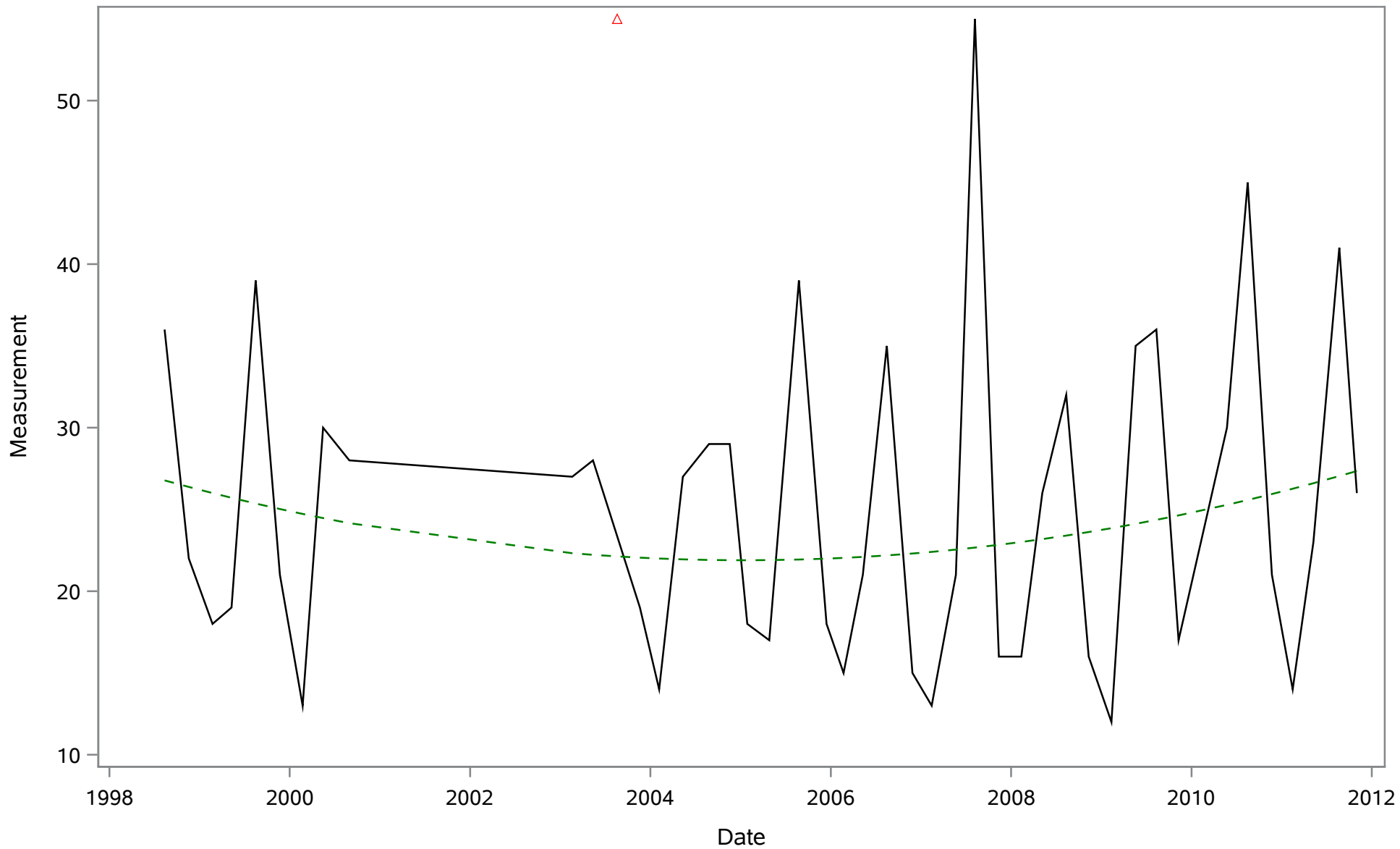
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_Uncor_ugL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_cor_ugl

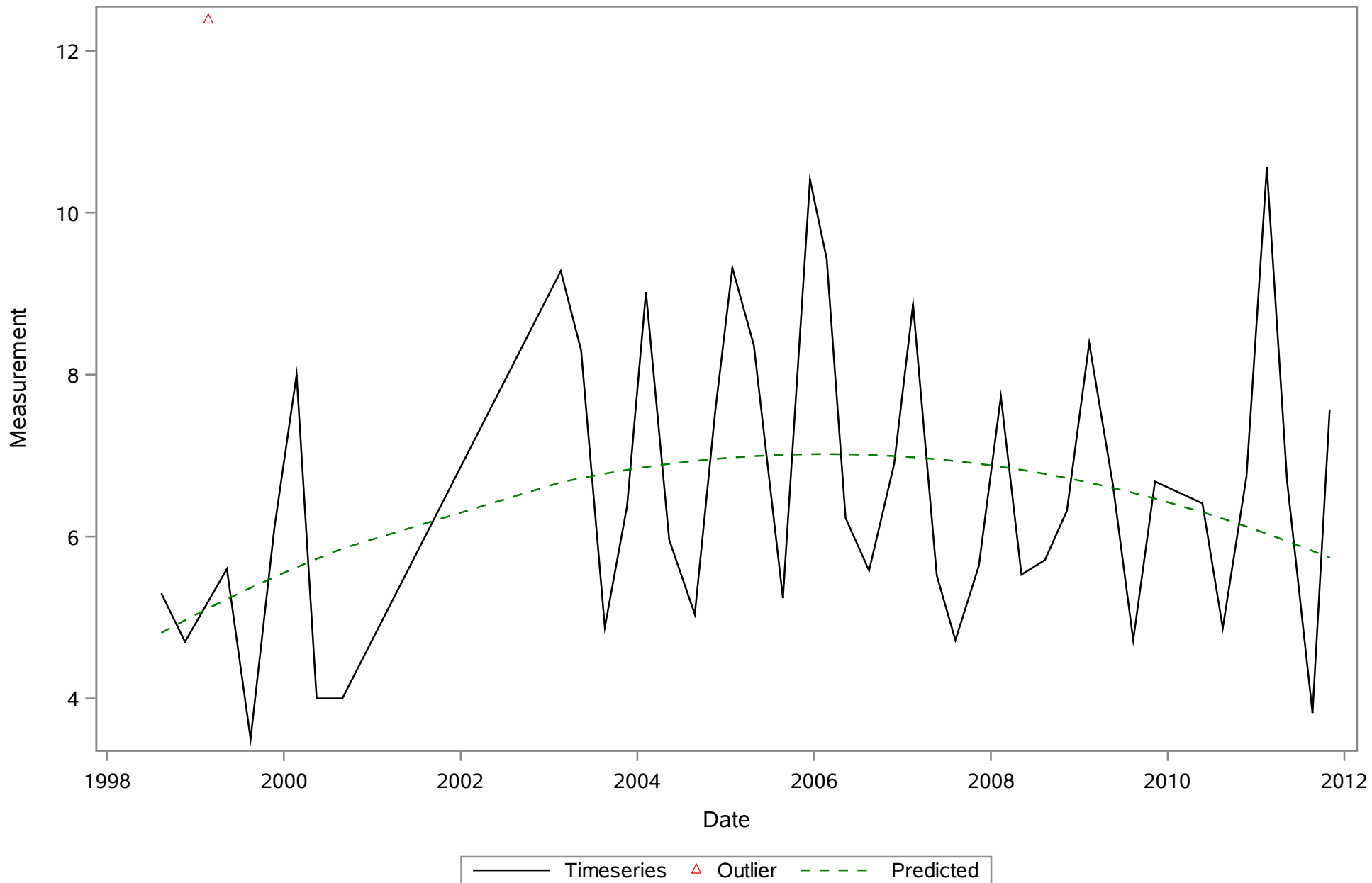


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
COLOR_PtCo

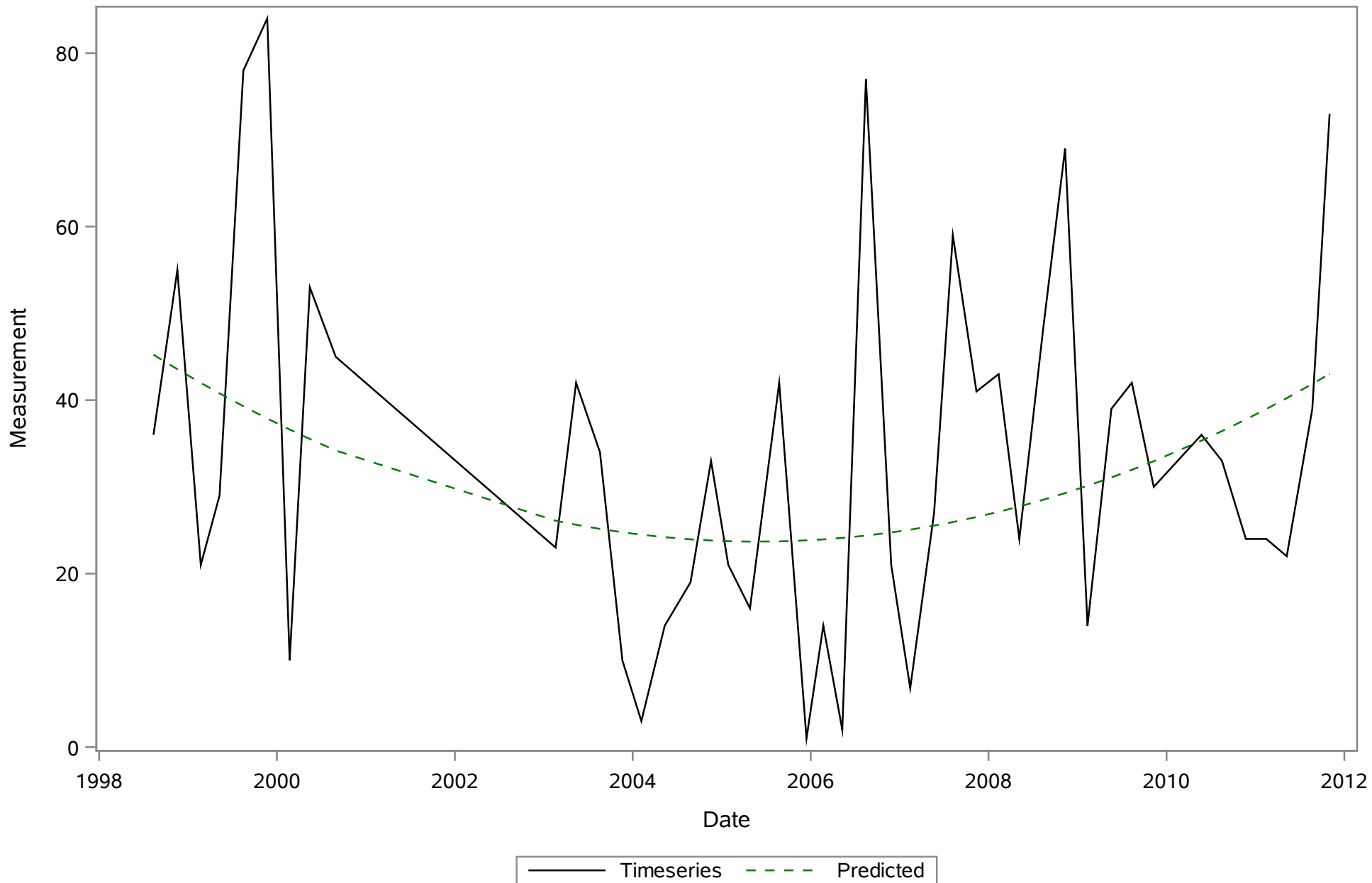


— Timeseries △ Outlier - - - Predicted

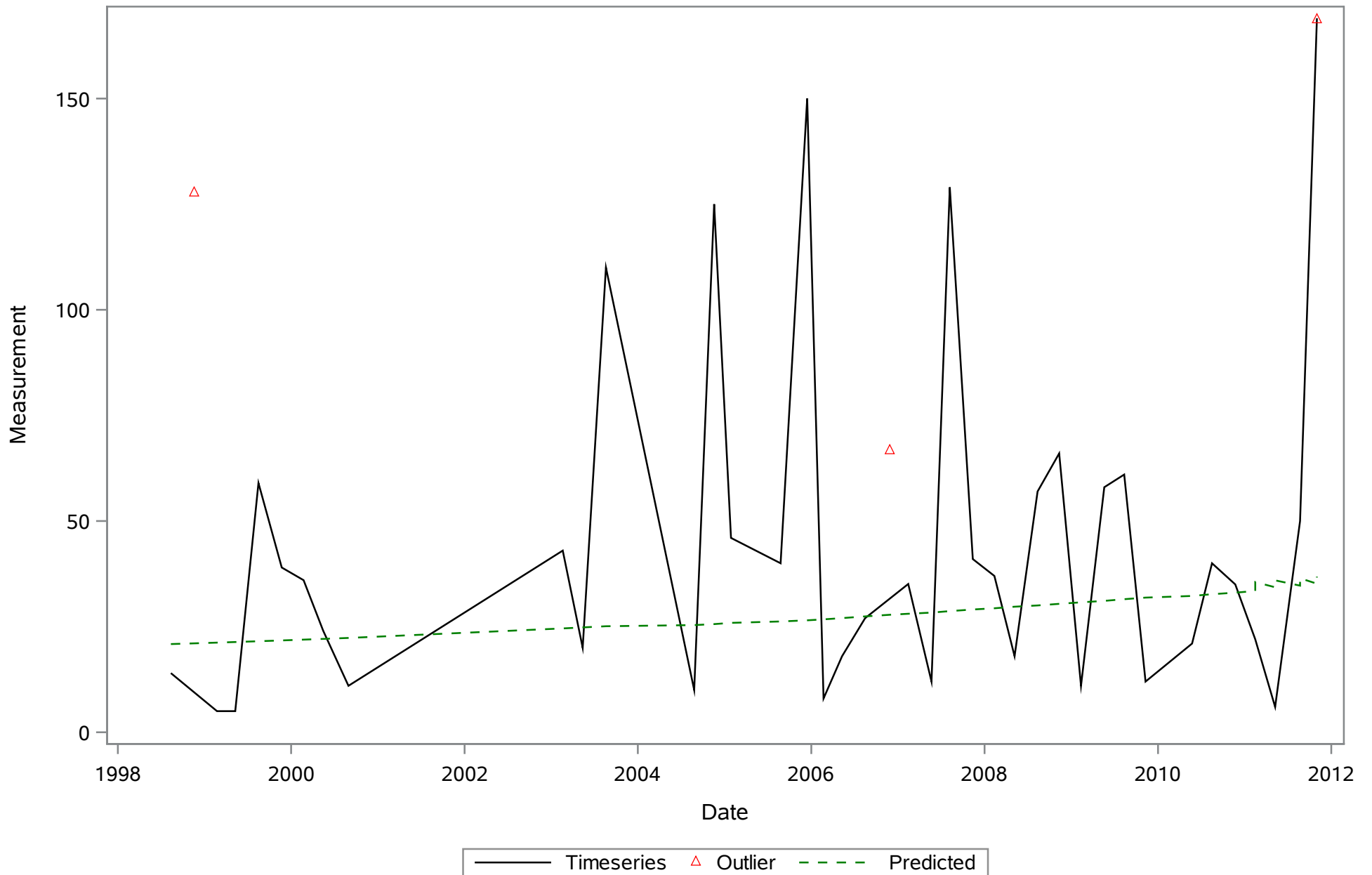
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
DO_mgL



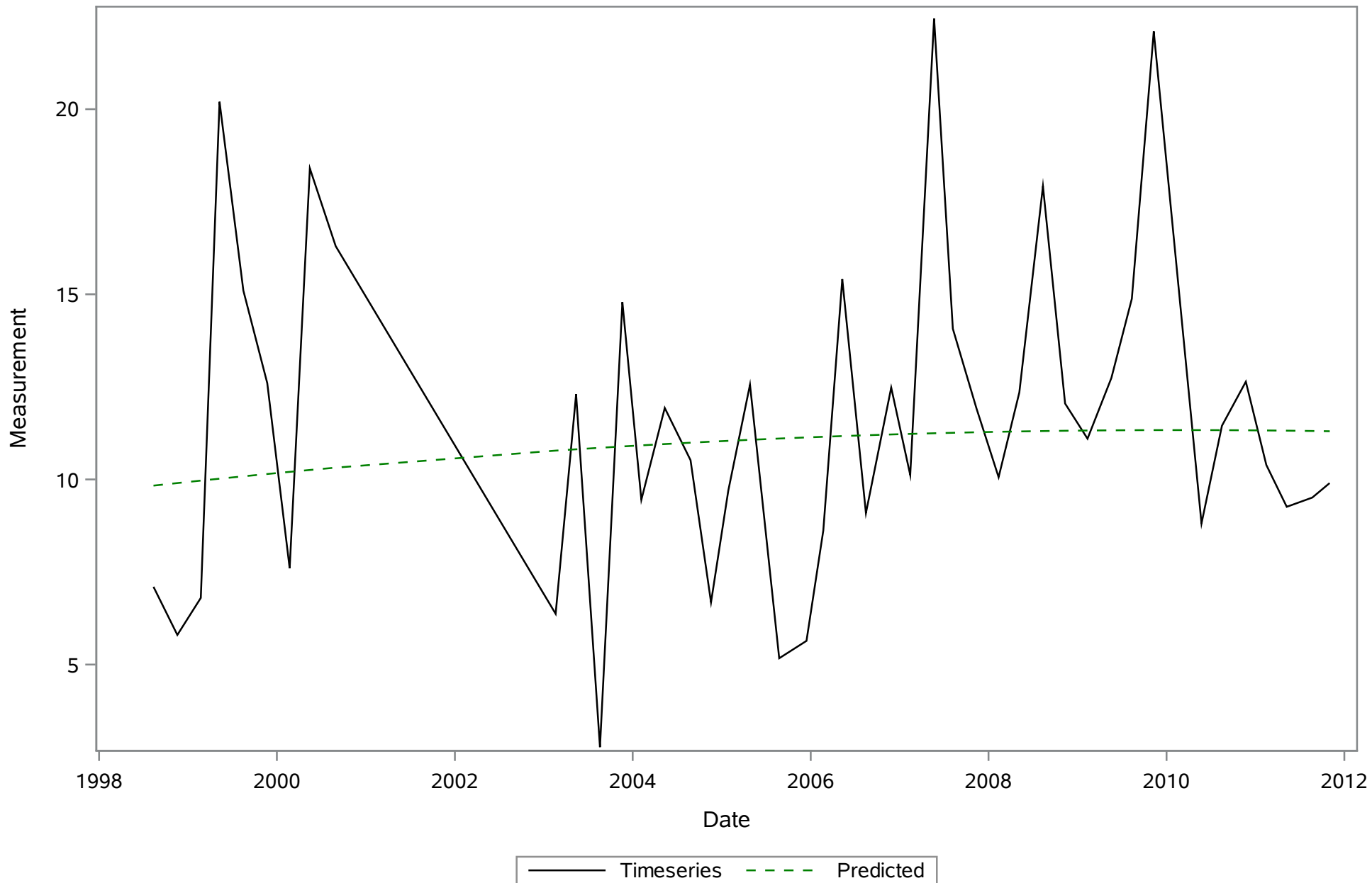
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NH4_ugl



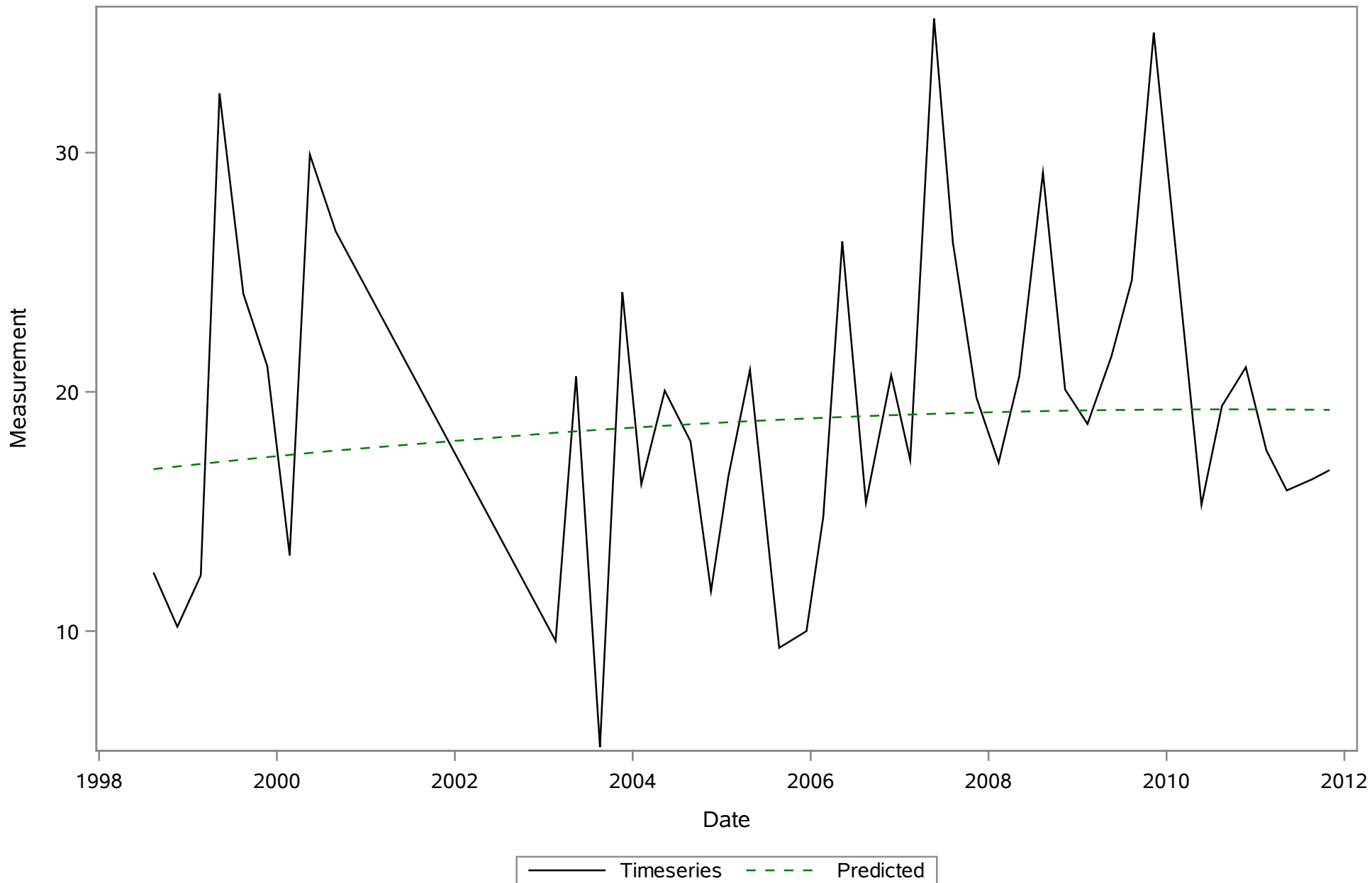
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NO3_ugL



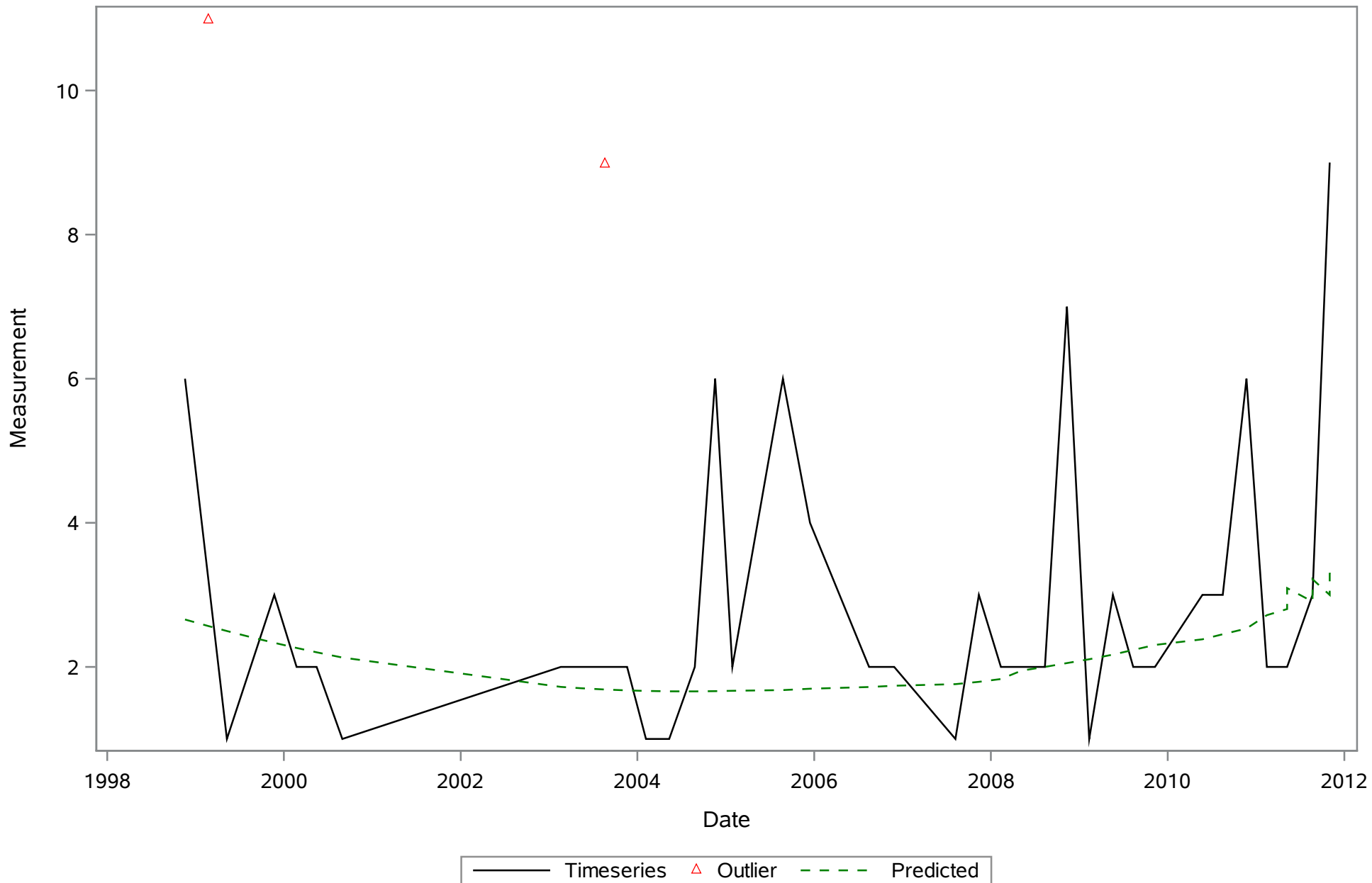
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SAL_Perc



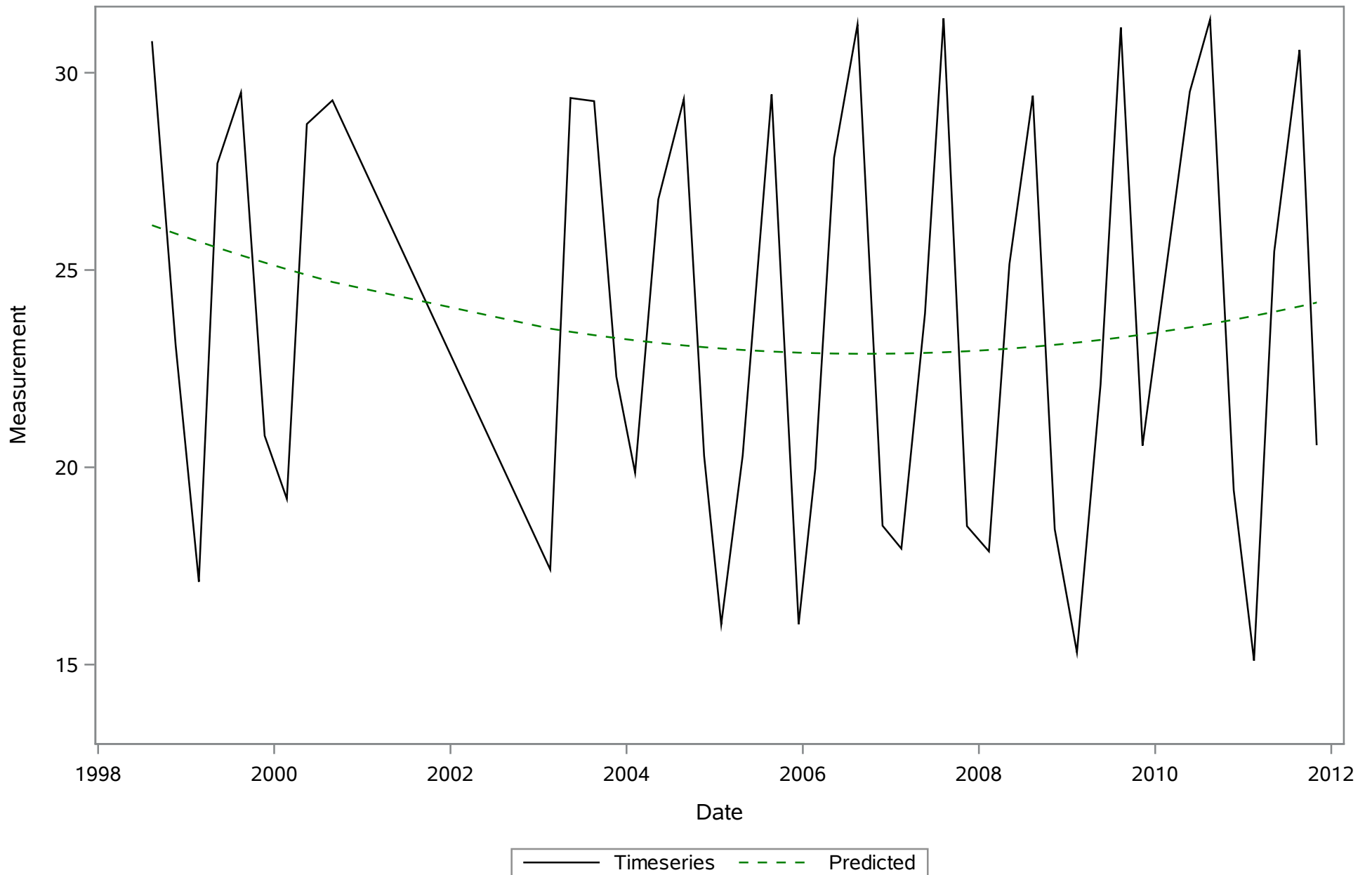
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SPCOND_mS_cm



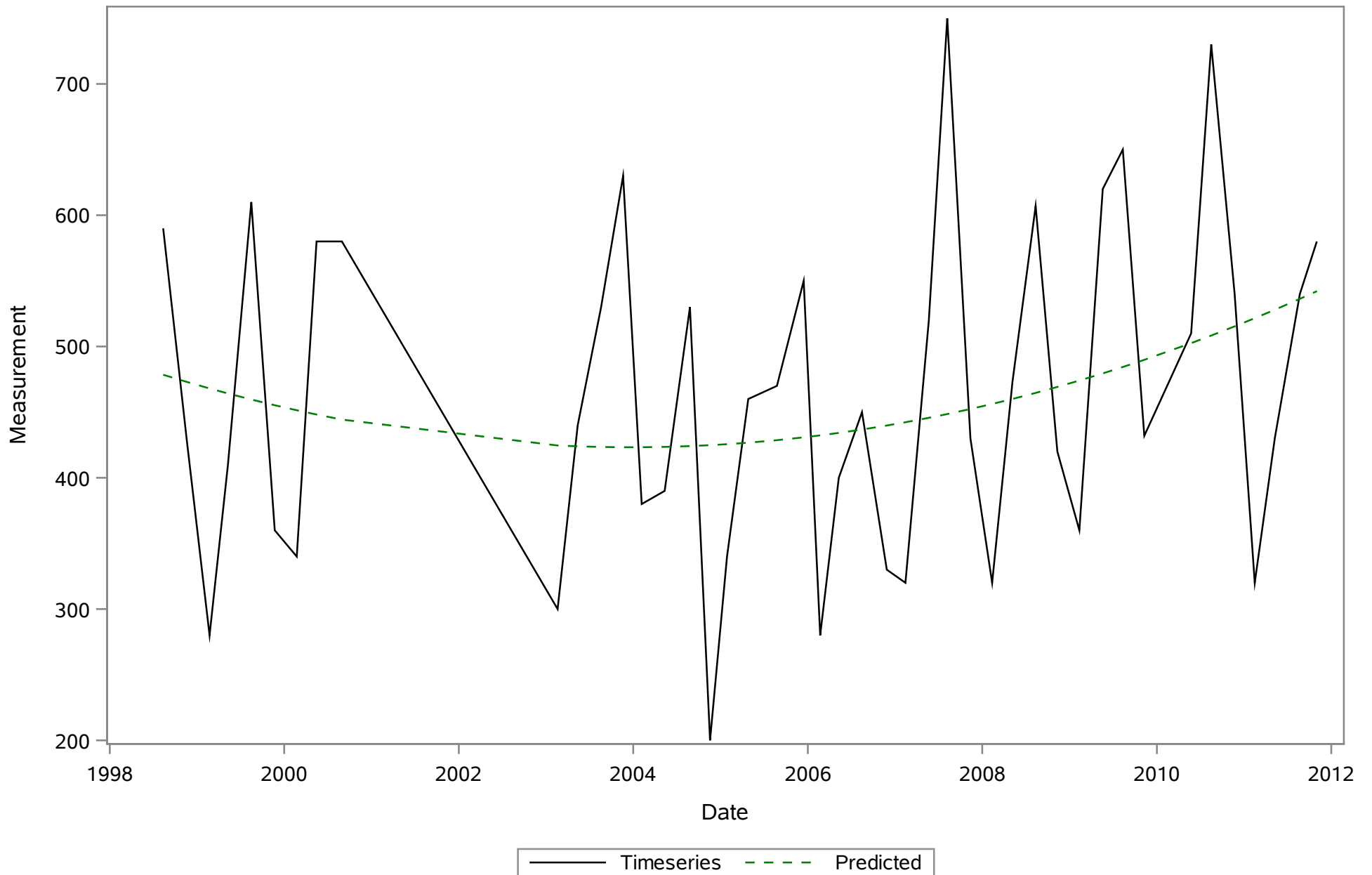
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SRP_ugL



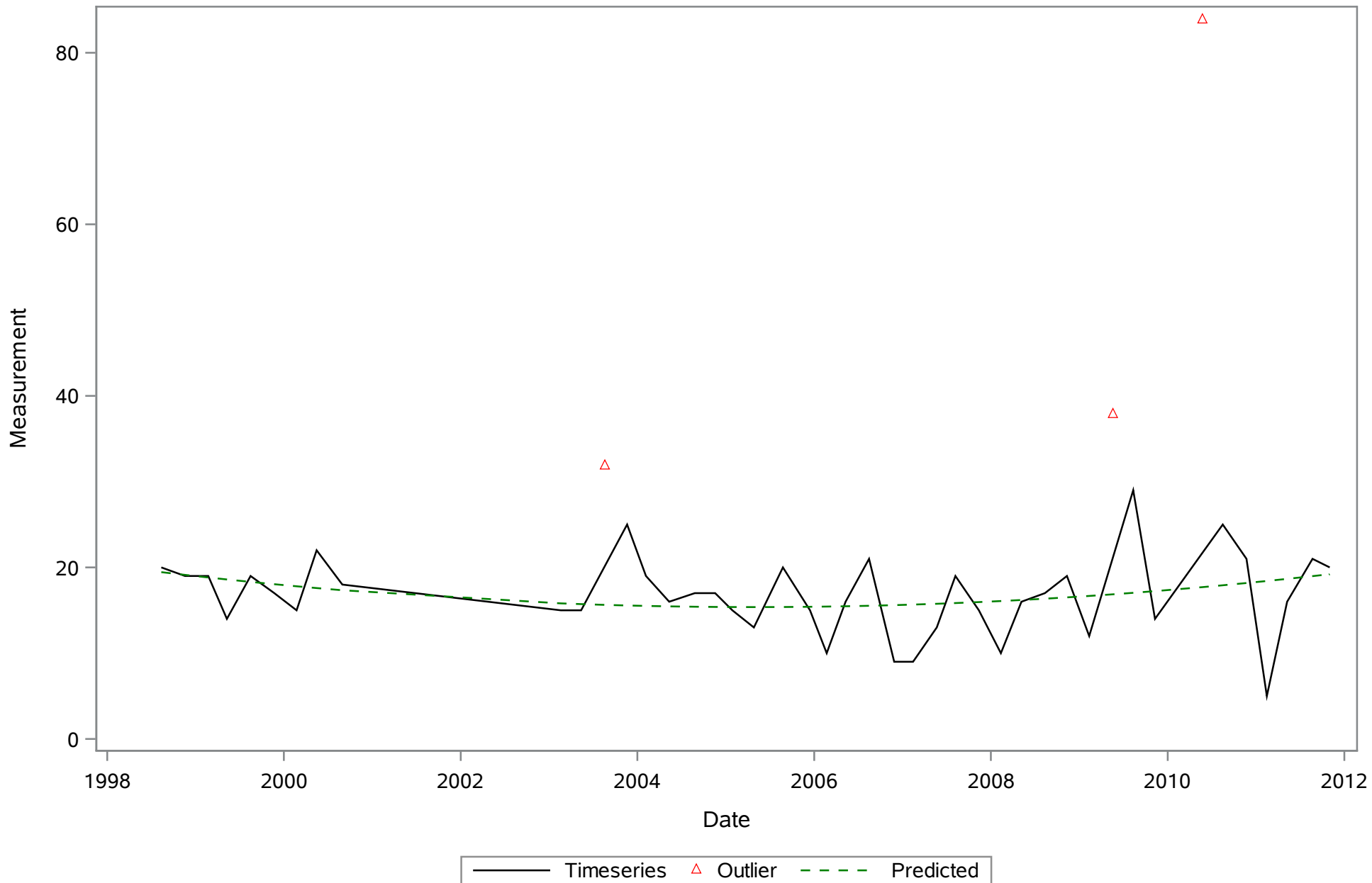
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TEMP_C



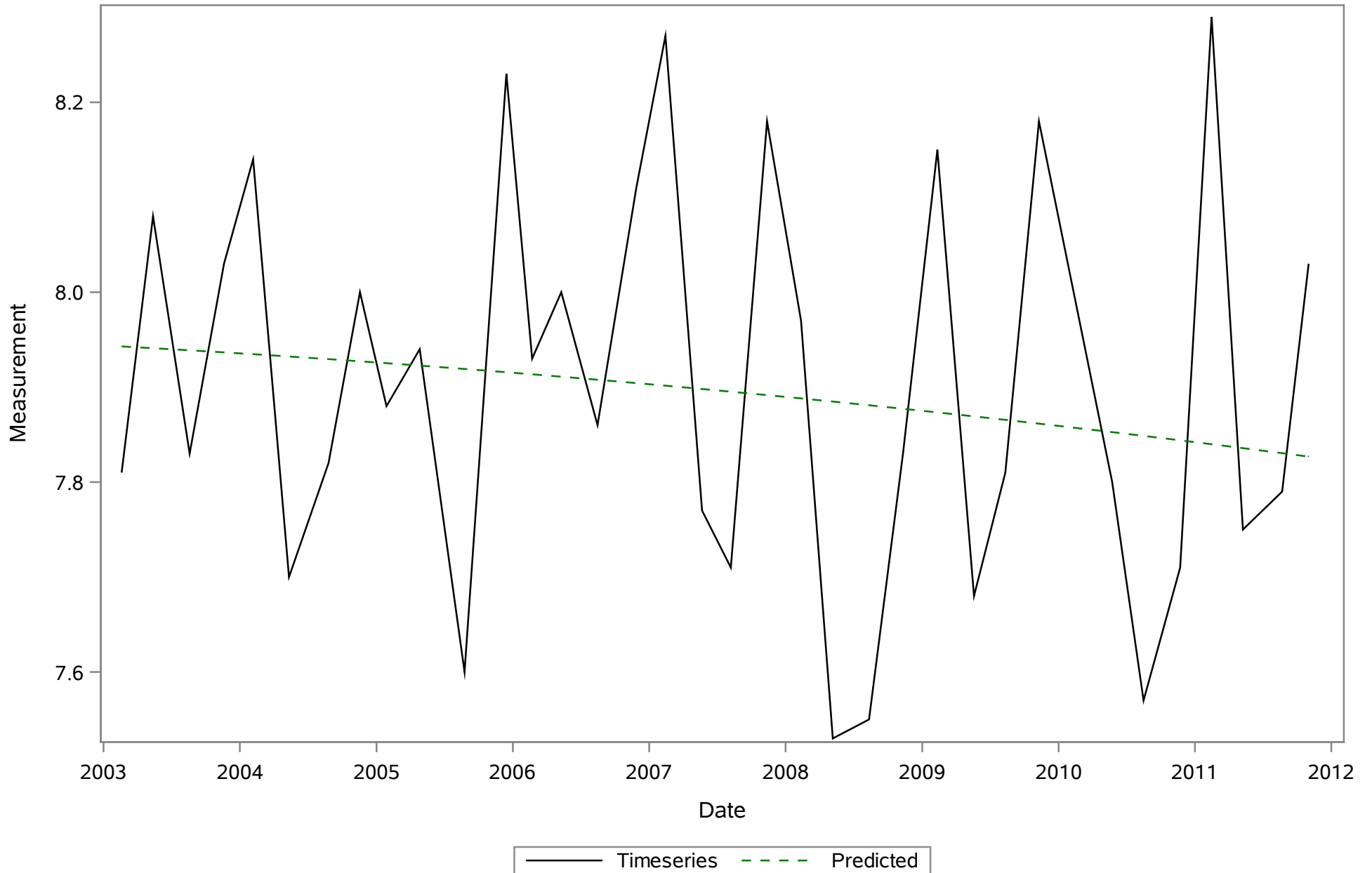
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TN_ugl



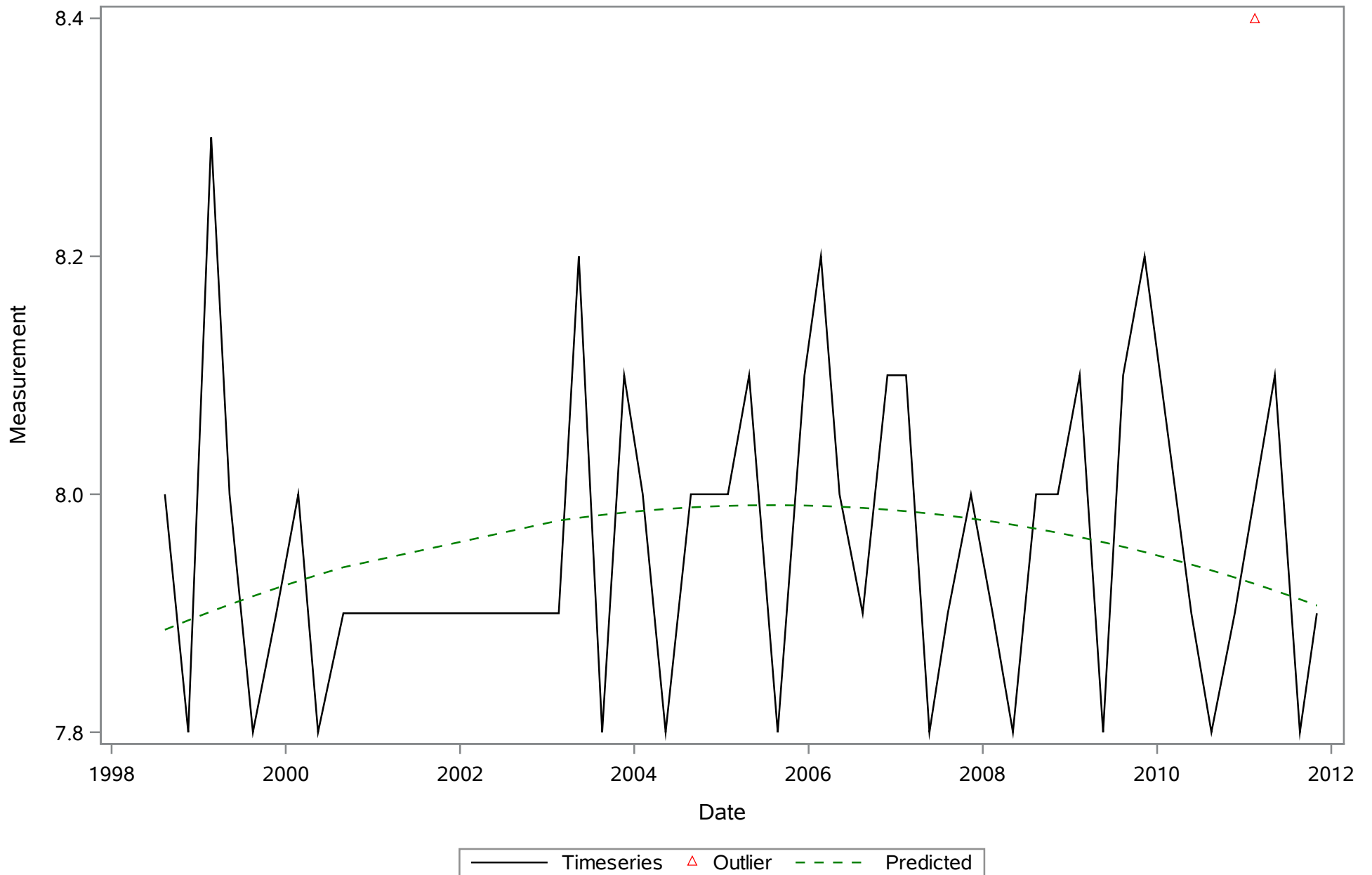
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TP_ugl



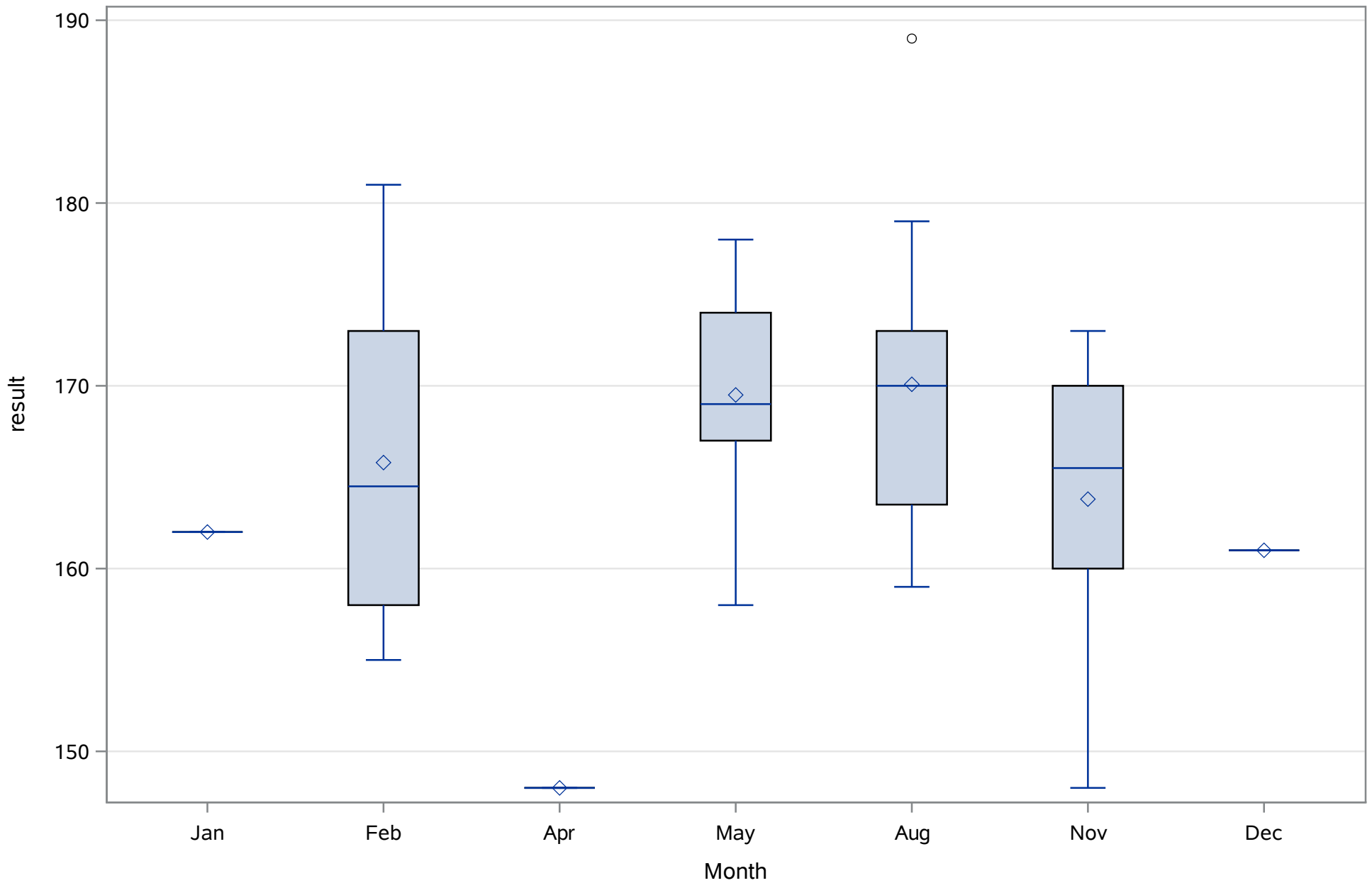
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Field



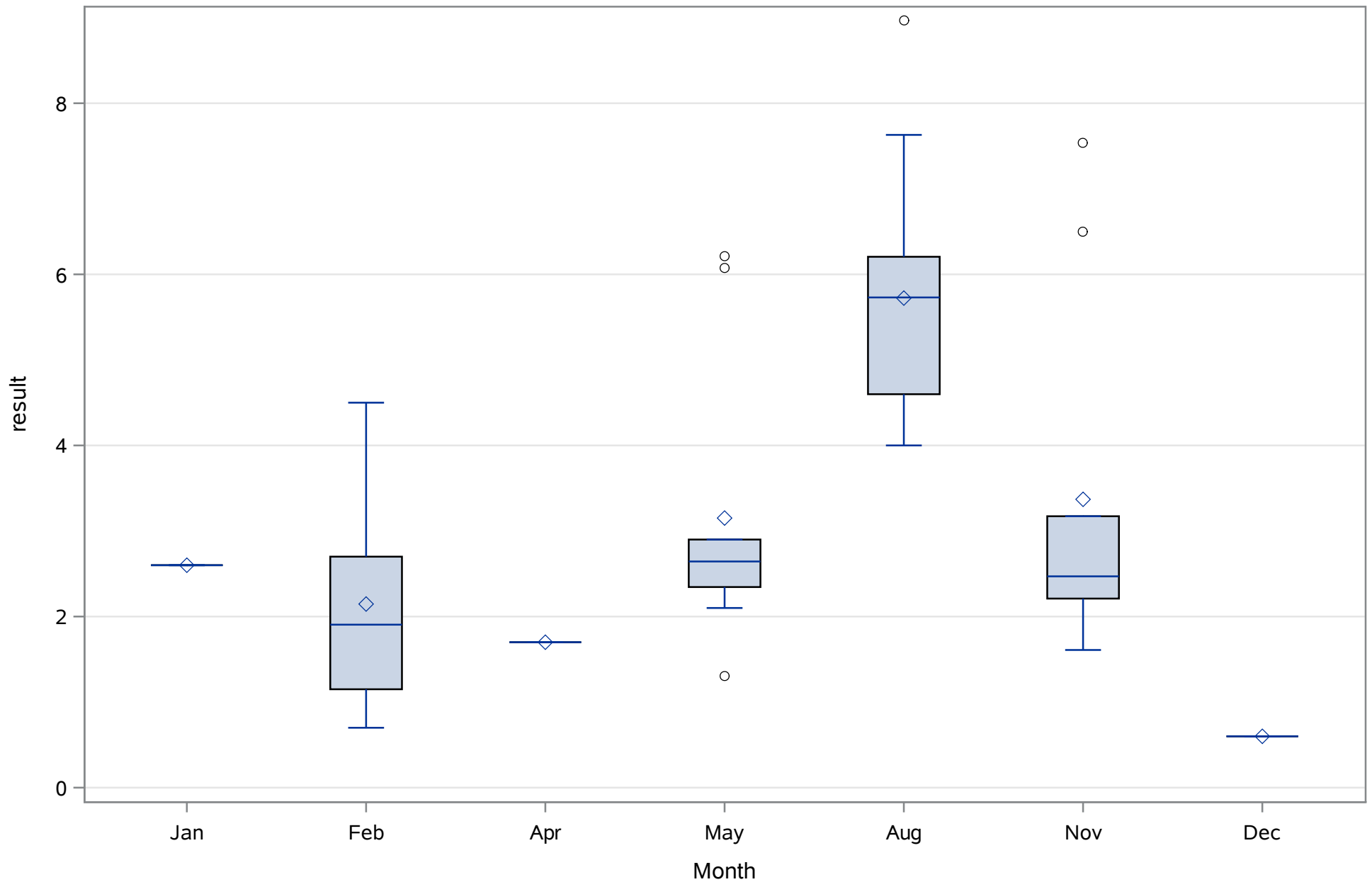
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Lab



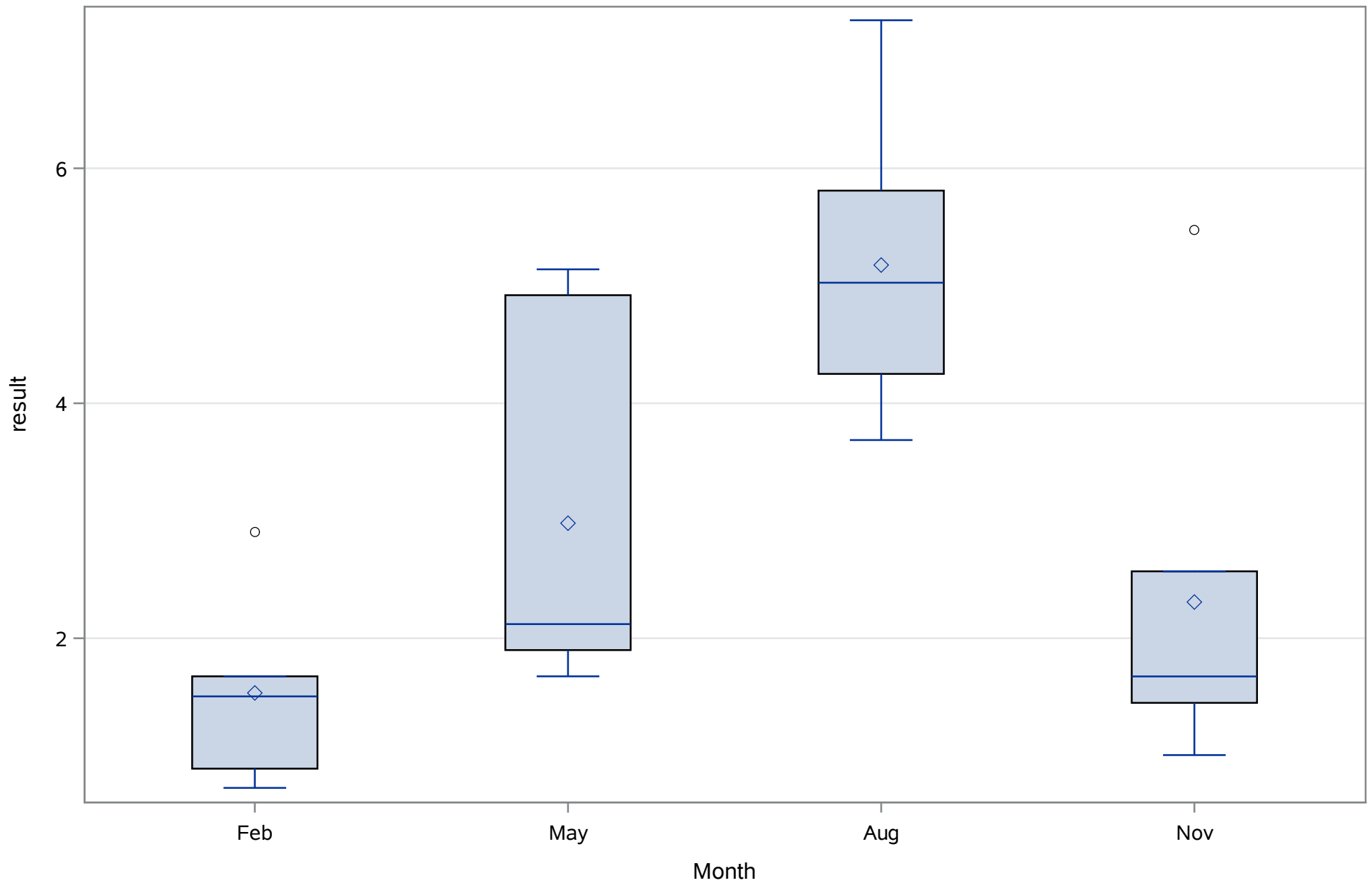
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
ALK_tot_mgL



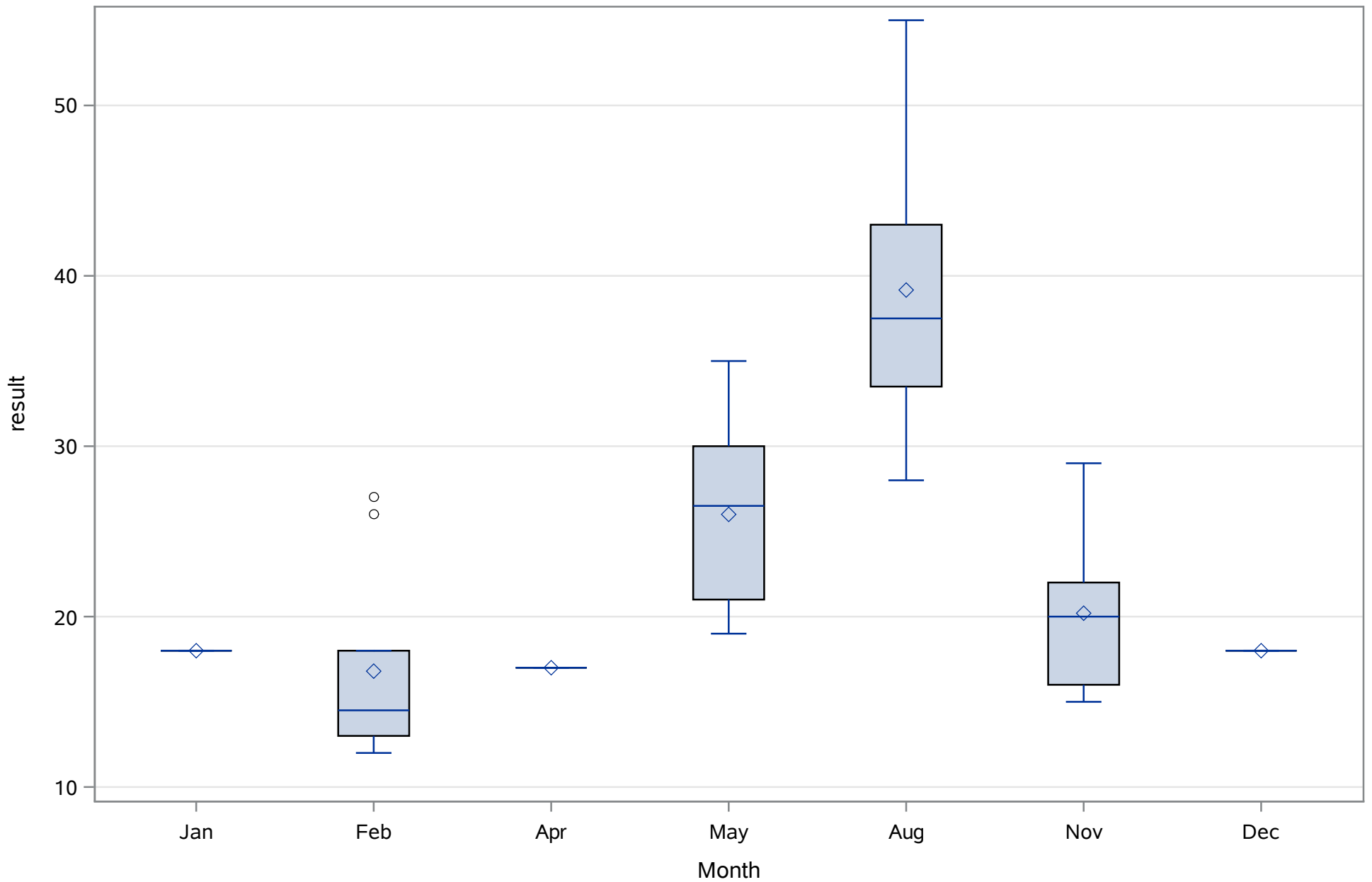
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_Uncor_ugL



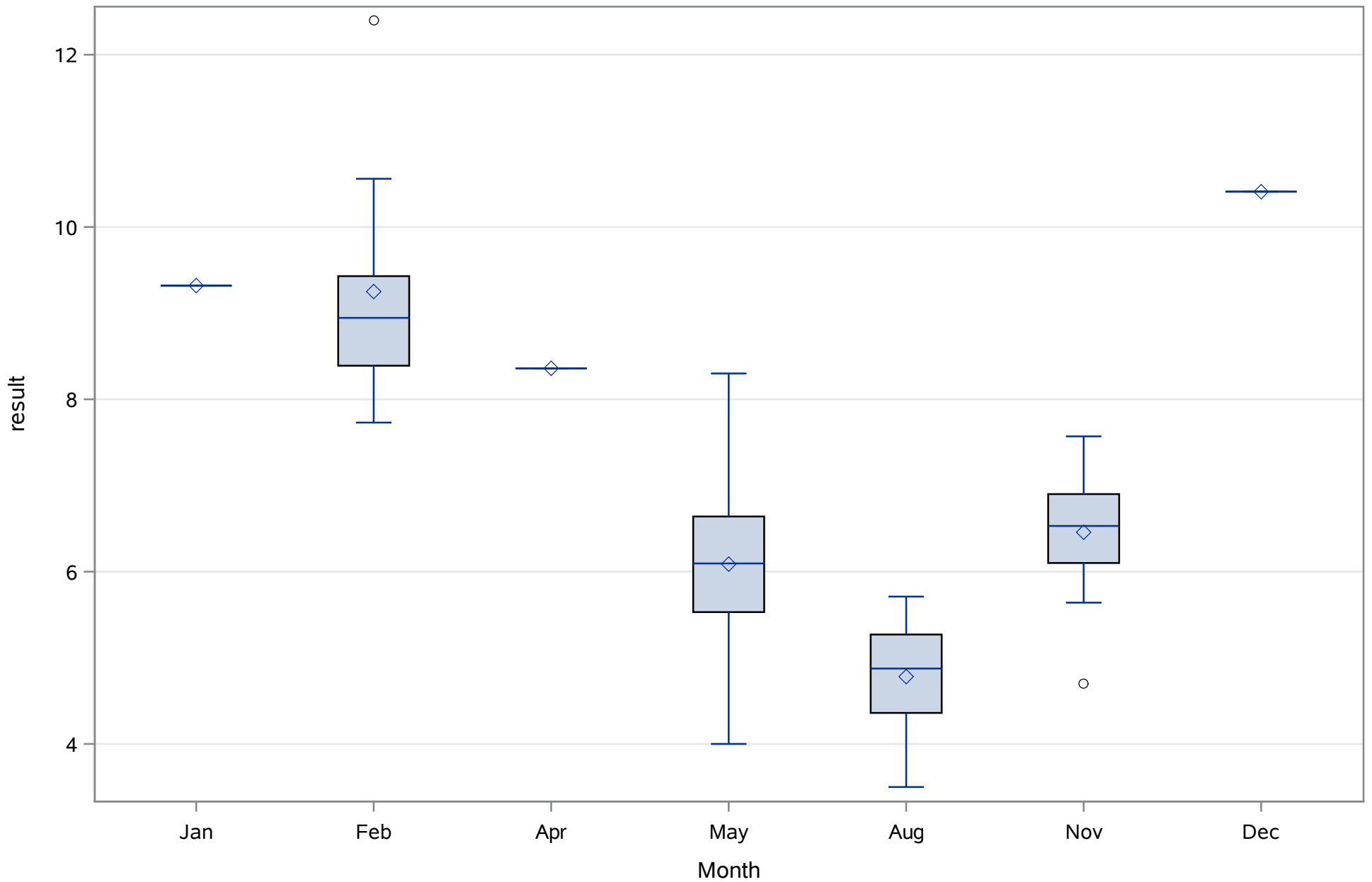
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
CHLA_cor_uvl



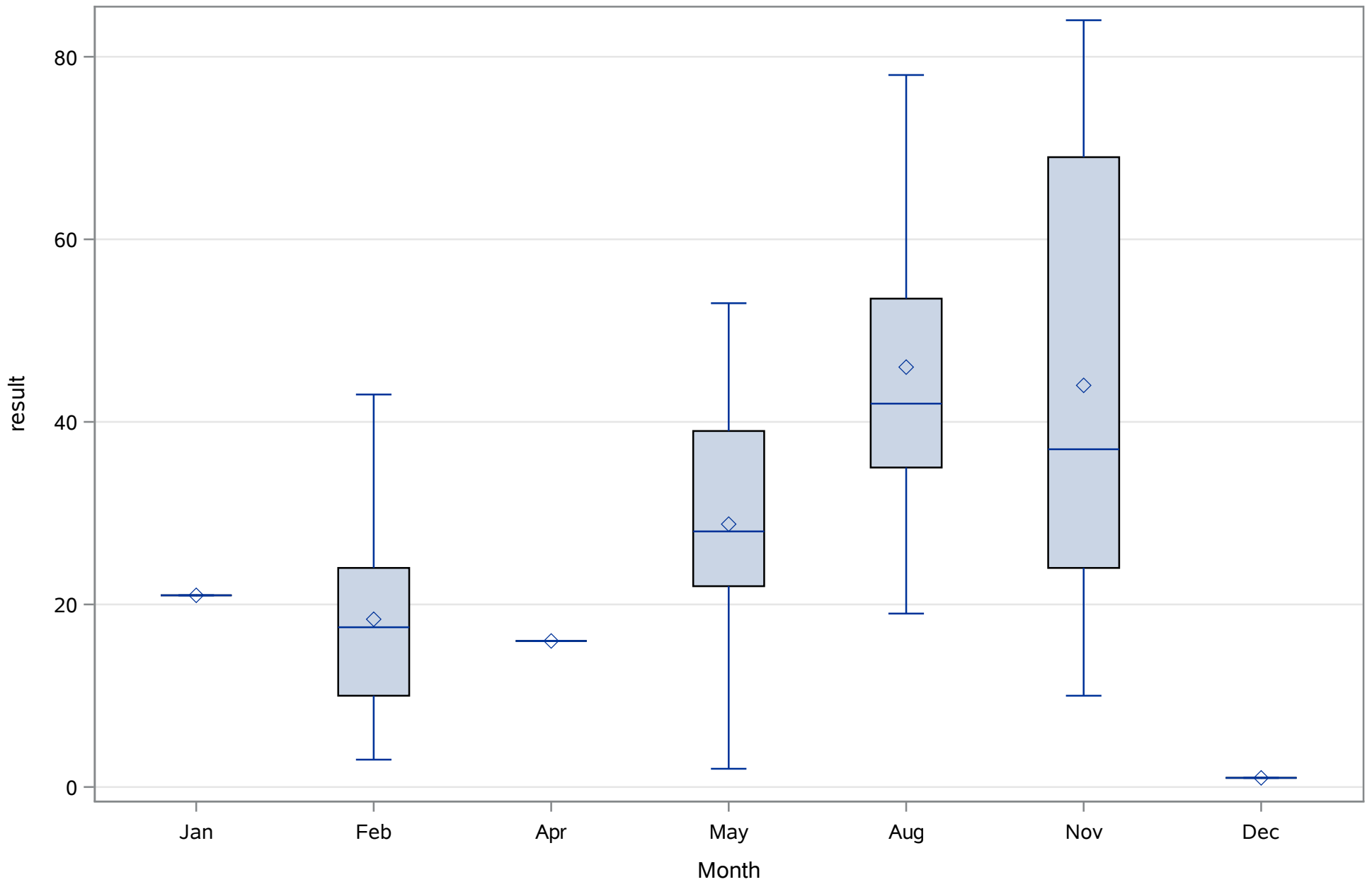
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
COLOR_PtCo



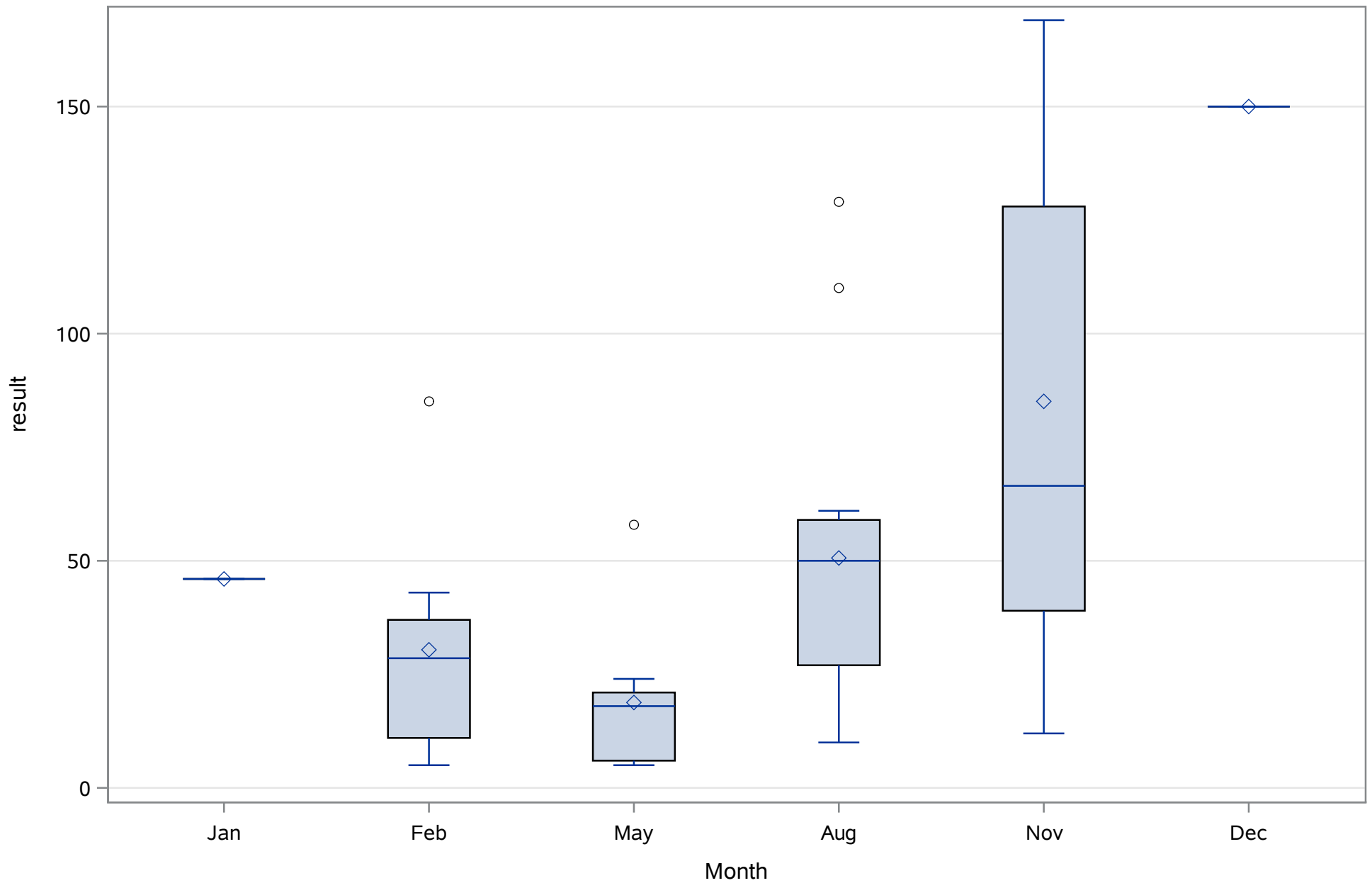
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
DO_mgL



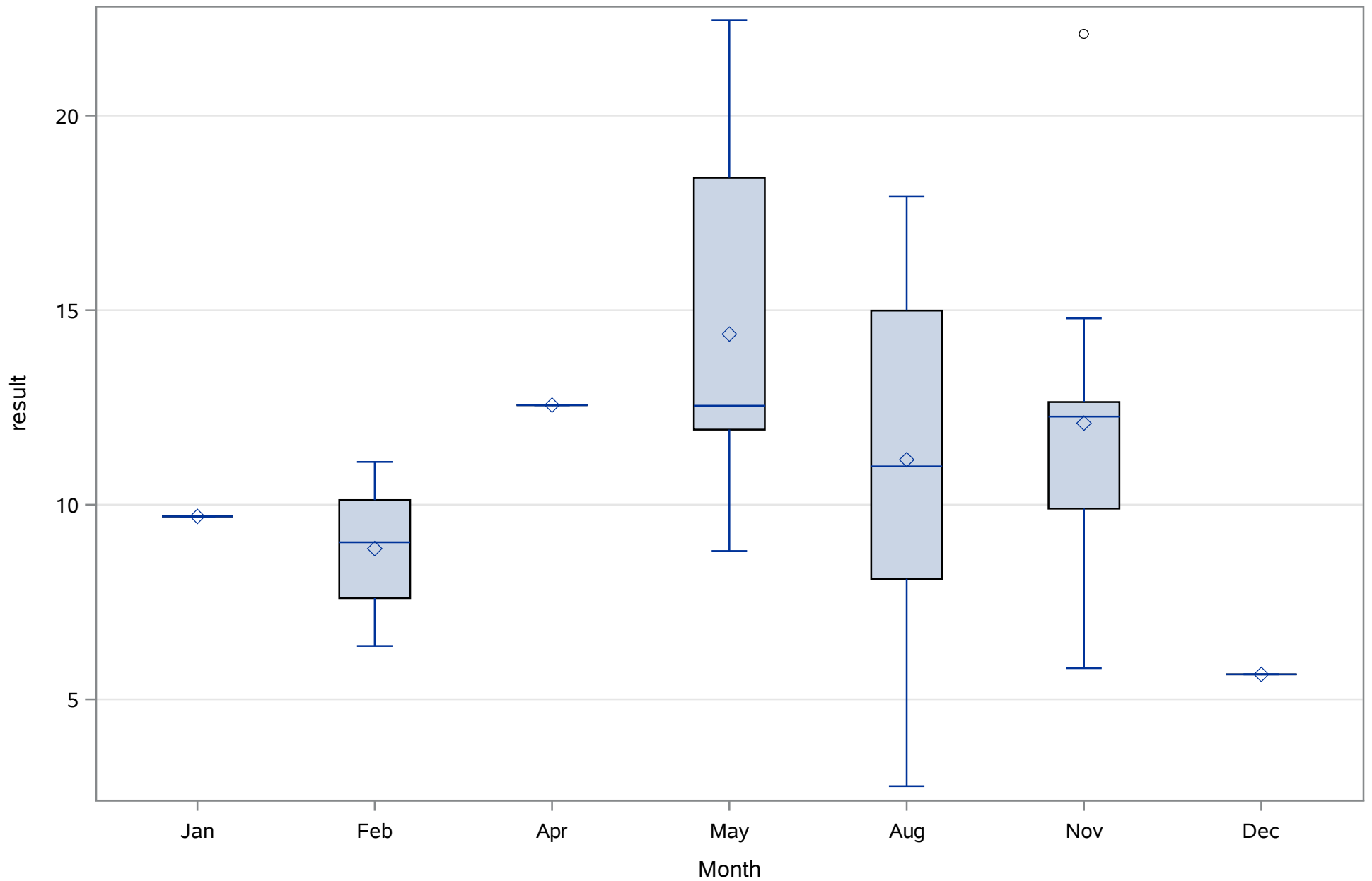
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NH4_ugl



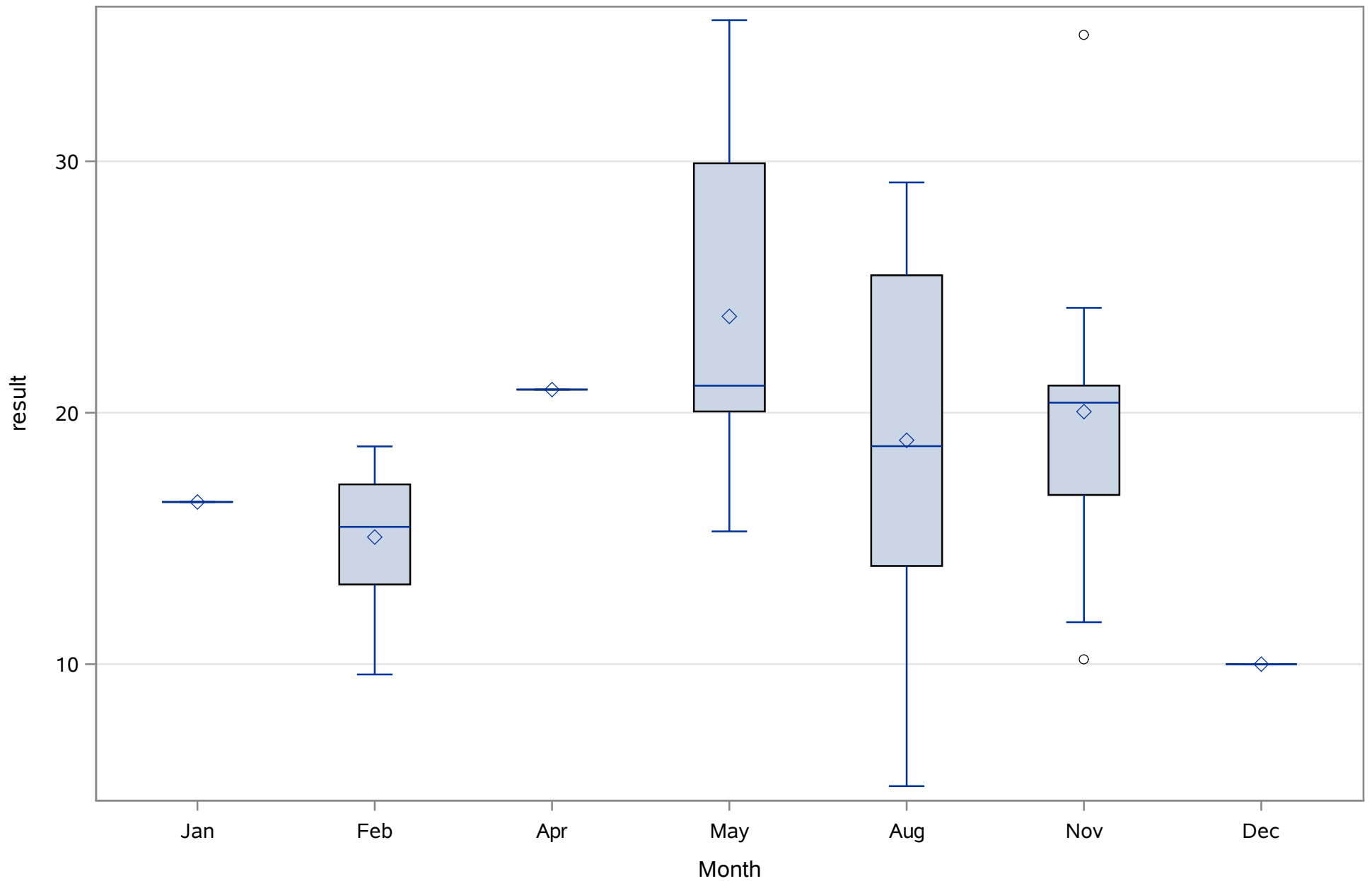
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
NO3_ugL



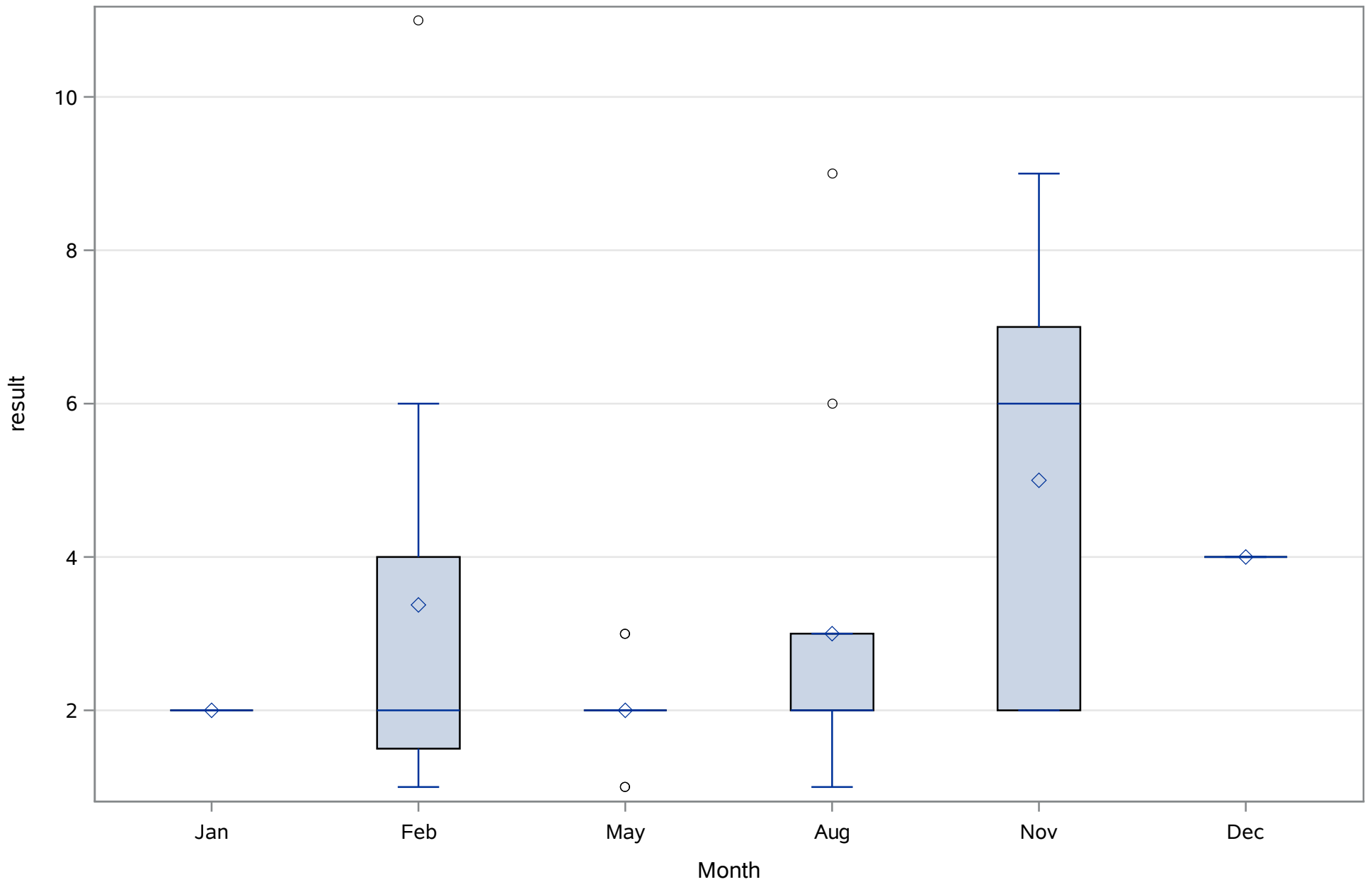
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SAL_Perc



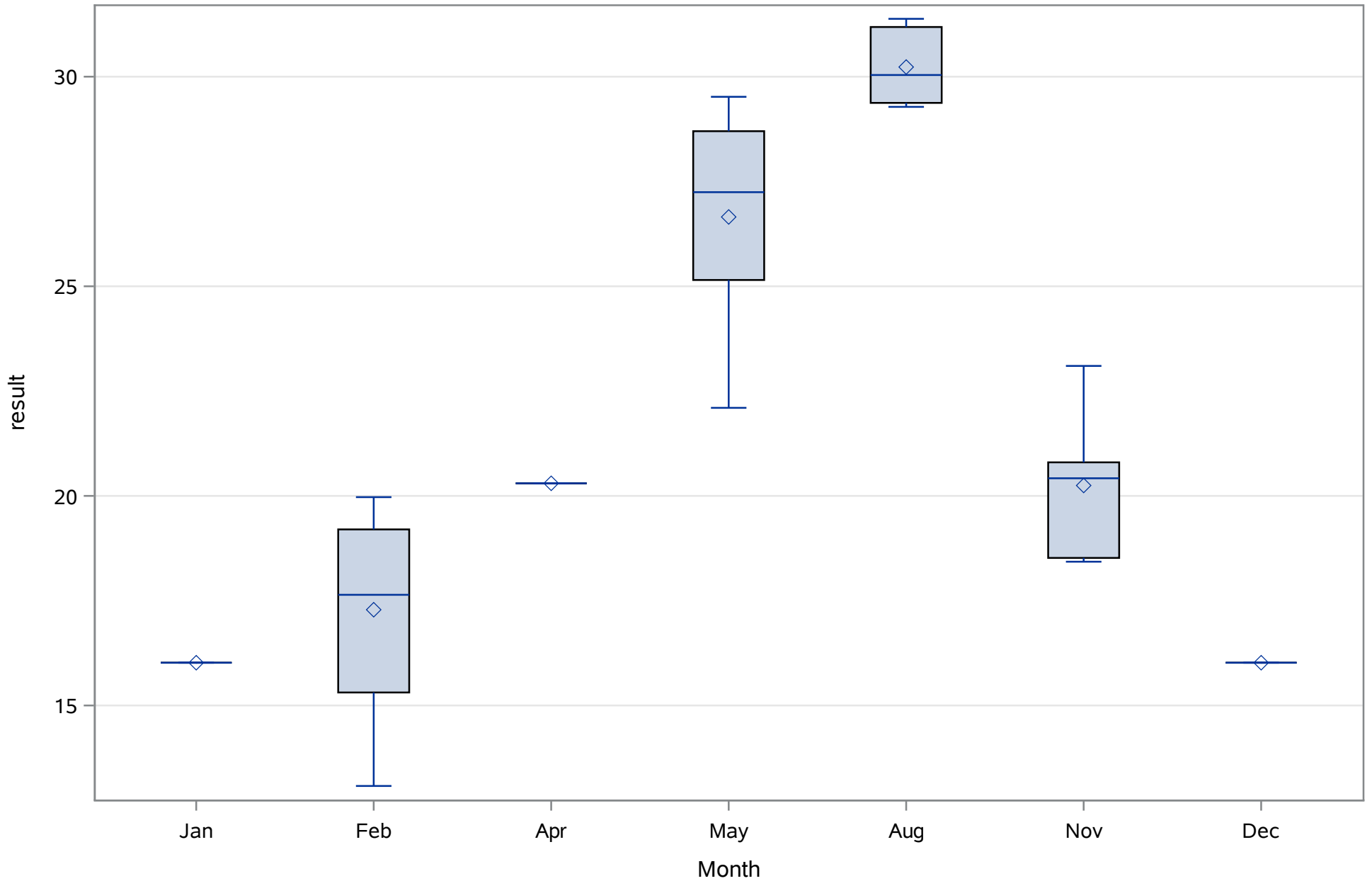
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SPCOND_mS_cm



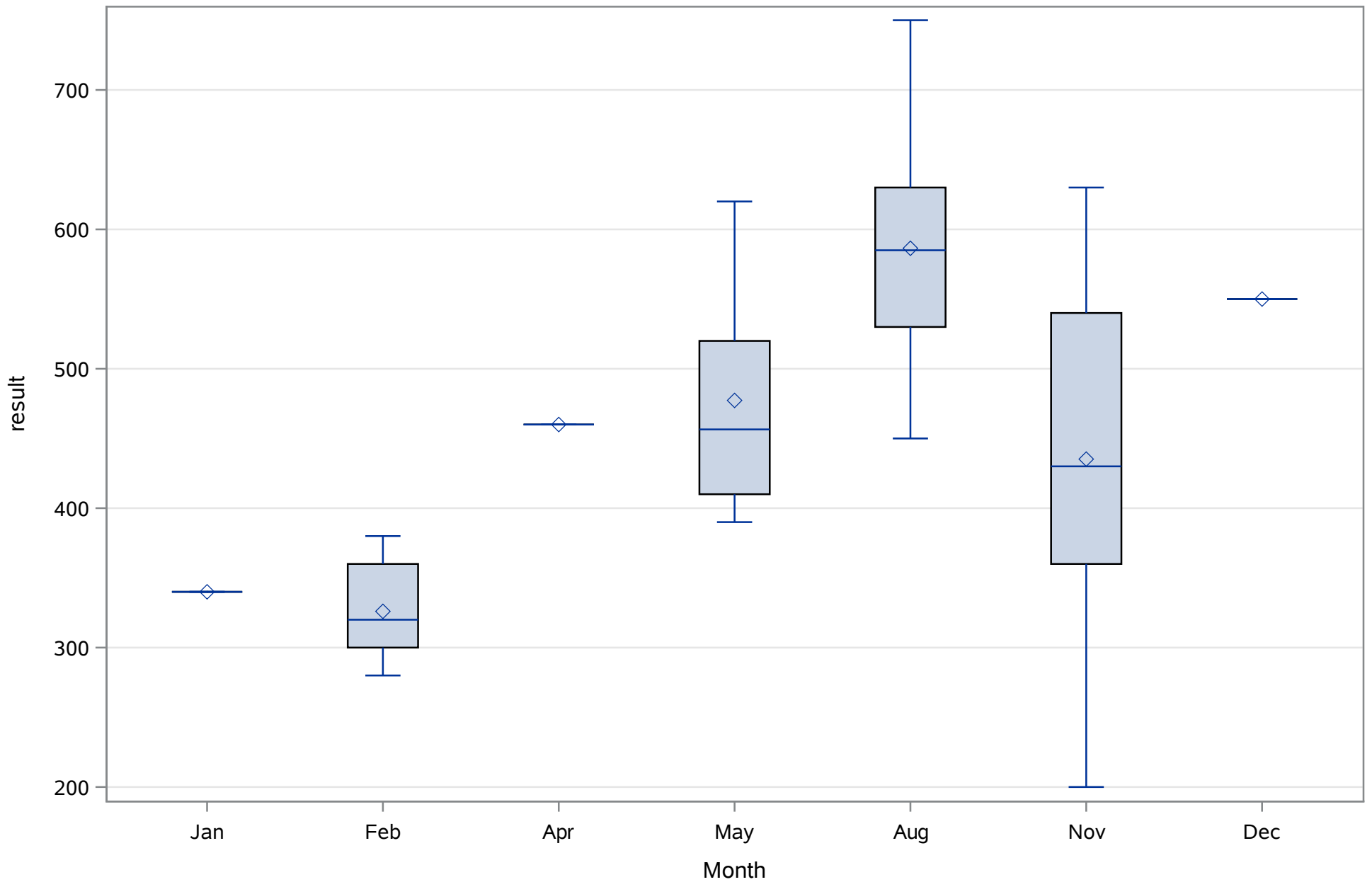
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
SRP_ugL



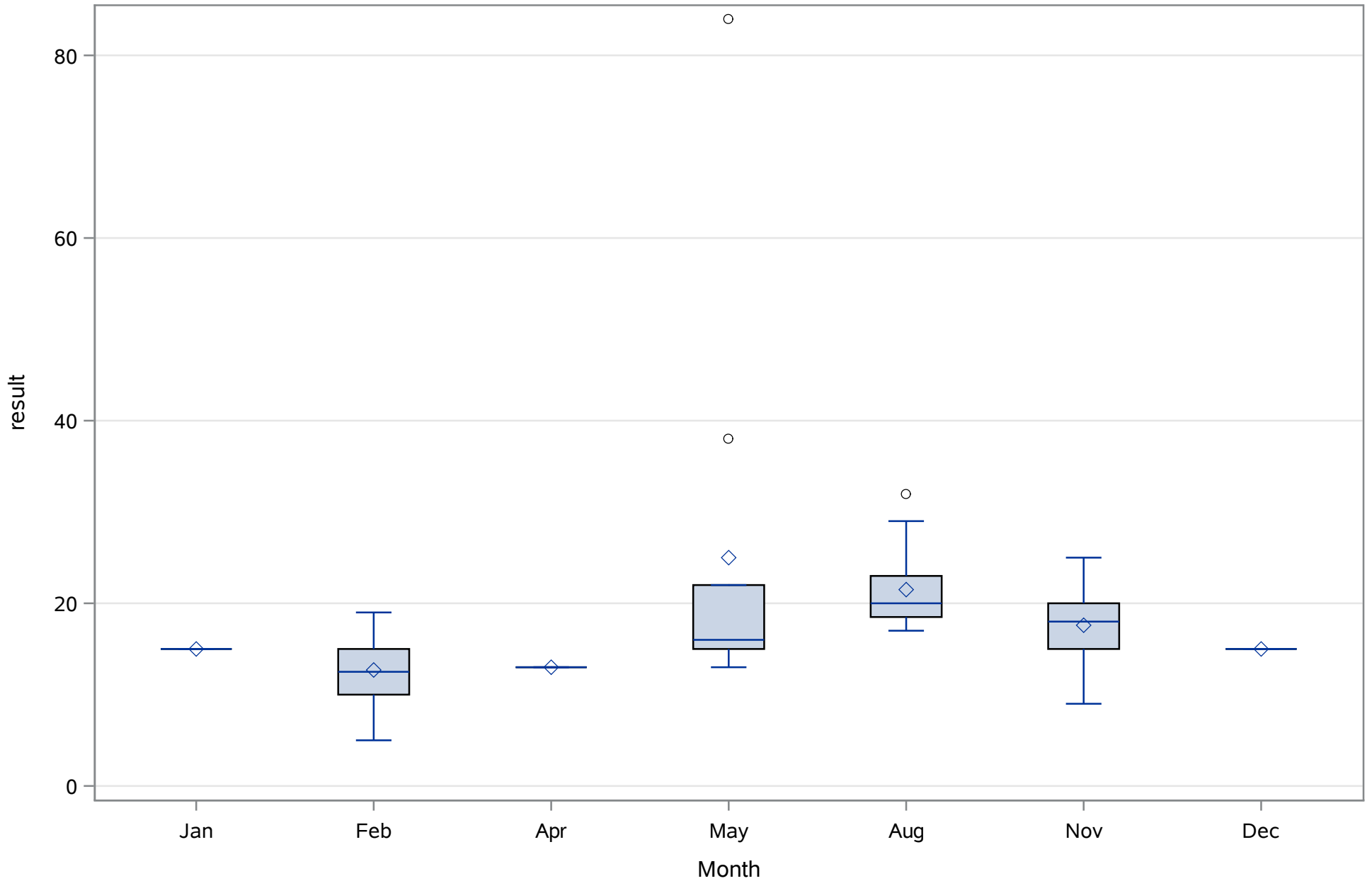
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TEMP_C



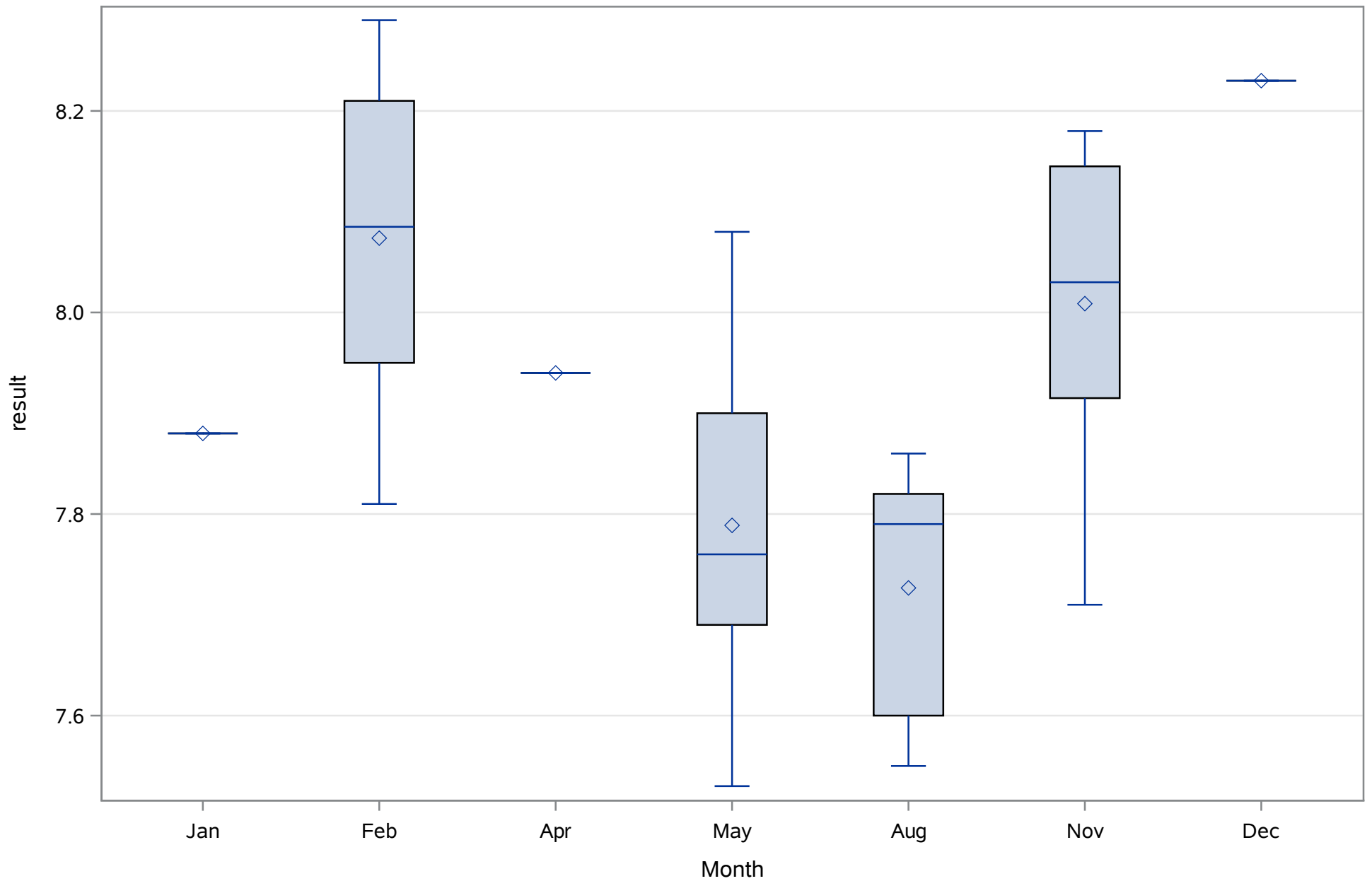
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TN_ugl



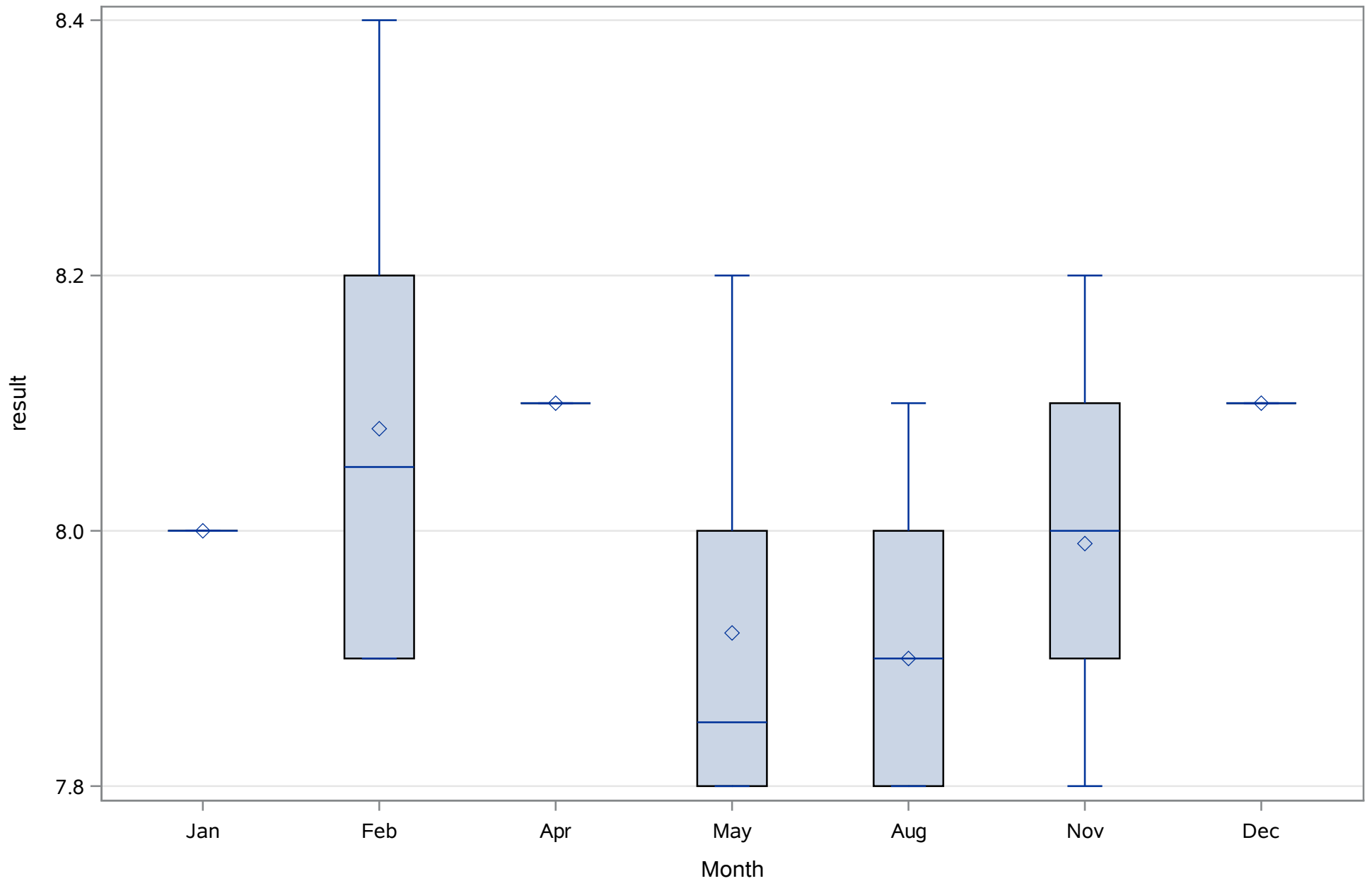
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 17
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	24	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	39	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	36	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	45	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	163	Sum Observations	7335
Std Deviation	9.32250454	Variance	86.9090909
Skewness	0.14900992	Kurtosis	0.23283747
Uncorrected SS	1199429	Corrected SS	3824
Coeff Variation	5.71932794	Std Error Mean	1.38971692

Basic Statistical Measures			
Location		Variability	
Mean	163.0000	Std Deviation	9.32250
Median	164.0000	Variance	86.90909
Mode	158.0000	Range	45.00000
		Interquartile Range	11.00000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	117.2901	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	188
99%	188
95%	178
90%	175
75% Q3	168
50% Median	164
25% Q1	157
10%	150
5%	147

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

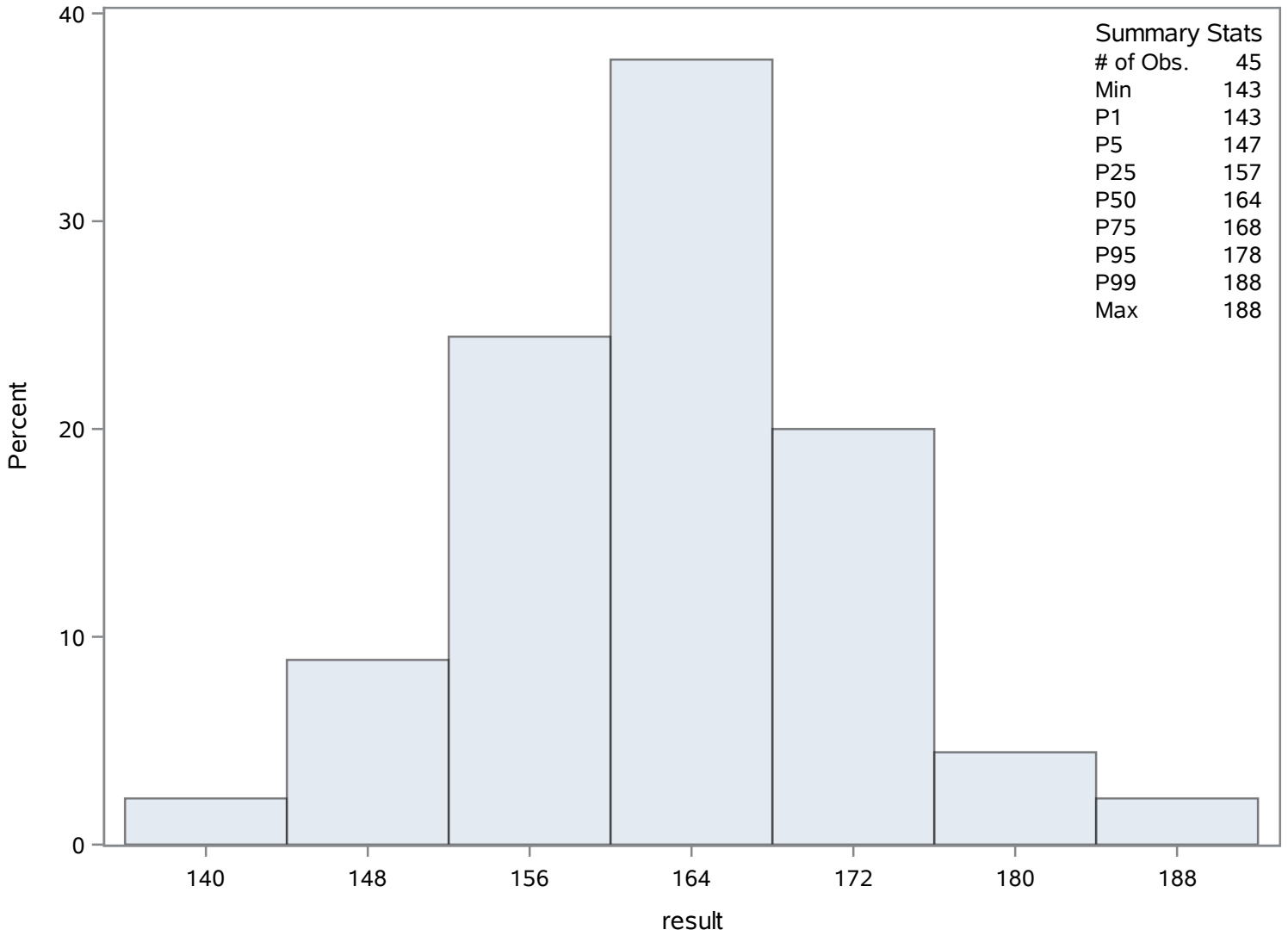
Quantiles (Definition 5)	
Level	Quantile
1%	143
0% Min	143

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
143	19	175	32
147	13	175	42
147	6	178	35
149	21	180	11
150	14	188	36

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_Uncor_uGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	3.27921839	Sum Observations	147.564828
Std Deviation	2.03027384	Variance	4.12201185
Skewness	1.1730776	Kurtosis	1.42739535
Uncorrected SS	665.265818	Corrected SS	181.368521
Coeff Variation	61.9133462	Std Error Mean	0.30265535

Basic Statistical Measures			
Location		Variability	
Mean	3.279218	Std Deviation	2.03027
Median	2.600000	Variance	4.12201
Mode	1.700000	Range	9.73000
		Interquartile Range	2.60000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	10.83483	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	9.930000
99%	9.930000
95%	6.900000
90%	6.200000
75% Q3	4.600000
50% Median	2.600000
25% Q1	2.000000
10%	1.241379
5%	0.827586

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

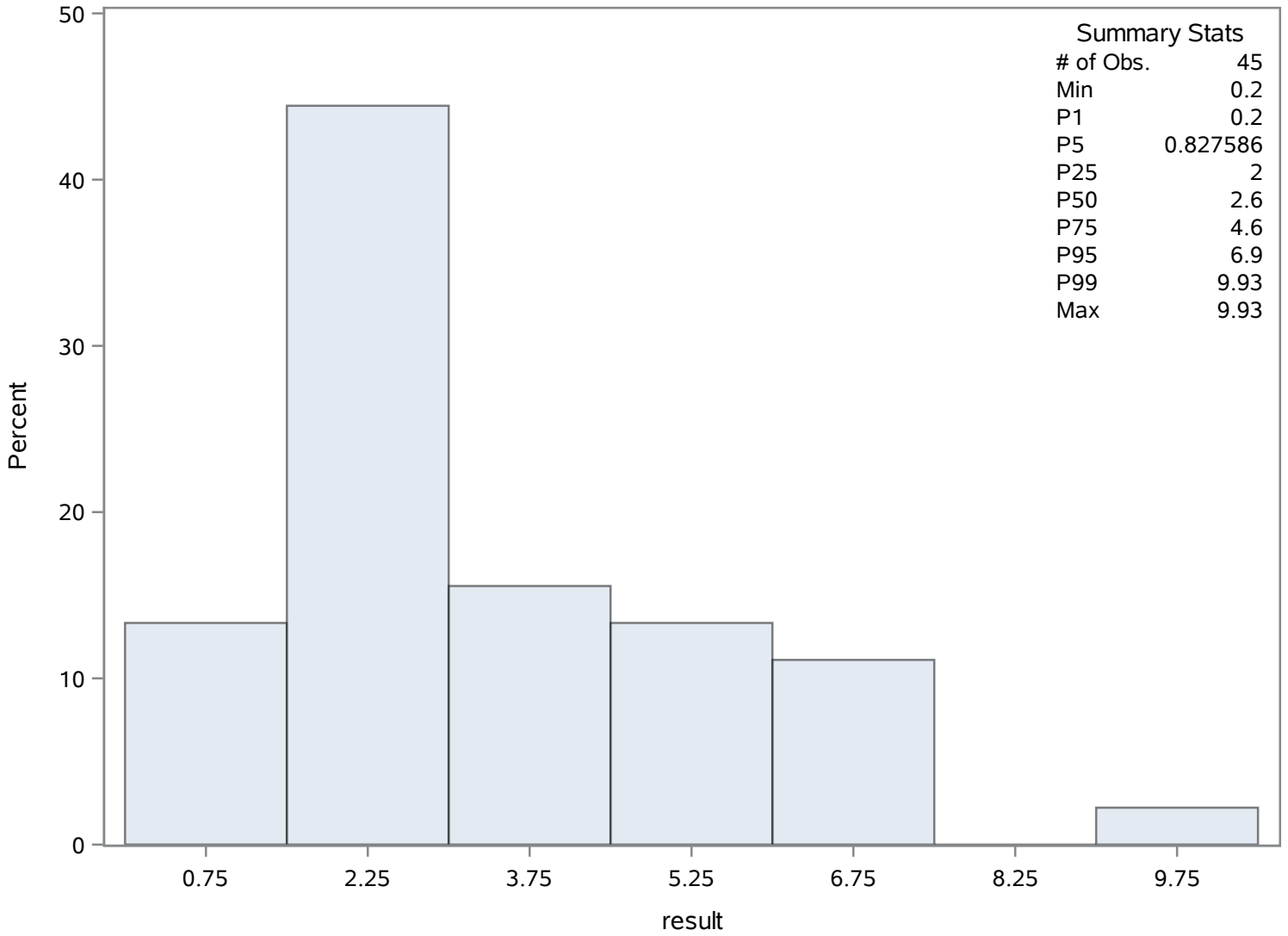
Quantiles (Definition 5)	
Level	Quantile
1%	0.200000
0% Min	0.200000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.200000	66	6.20	46
0.690000	87	6.39	81
0.827586	67	6.90	57
0.900000	48	7.49	89
1.241379	70	9.93	85

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	2.62159367	Sum Observations	62.918248
Std Deviation	1.92402307	Variance	3.70186476
Skewness	1.47431903	Kurtosis	1.84906081
Uncorrected SS	250.08897	Corrected SS	85.1428895
Coeff Variation	73.3913532	Std Error Mean	0.39273956

Basic Statistical Measures			
Location		Variability	
Mean	2.621594	Std Deviation	1.92402
Median	1.790000	Variance	3.70186
Mode	1.564136	Range	7.65724
		Interquartile Range	2.12103

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	6.675145	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.160000
99%	8.160000
95%	6.370000
90%	5.250000
75% Q3	3.685170
50% Median	1.790000
25% Q1	1.564136
10%	0.837930
5%	0.560000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

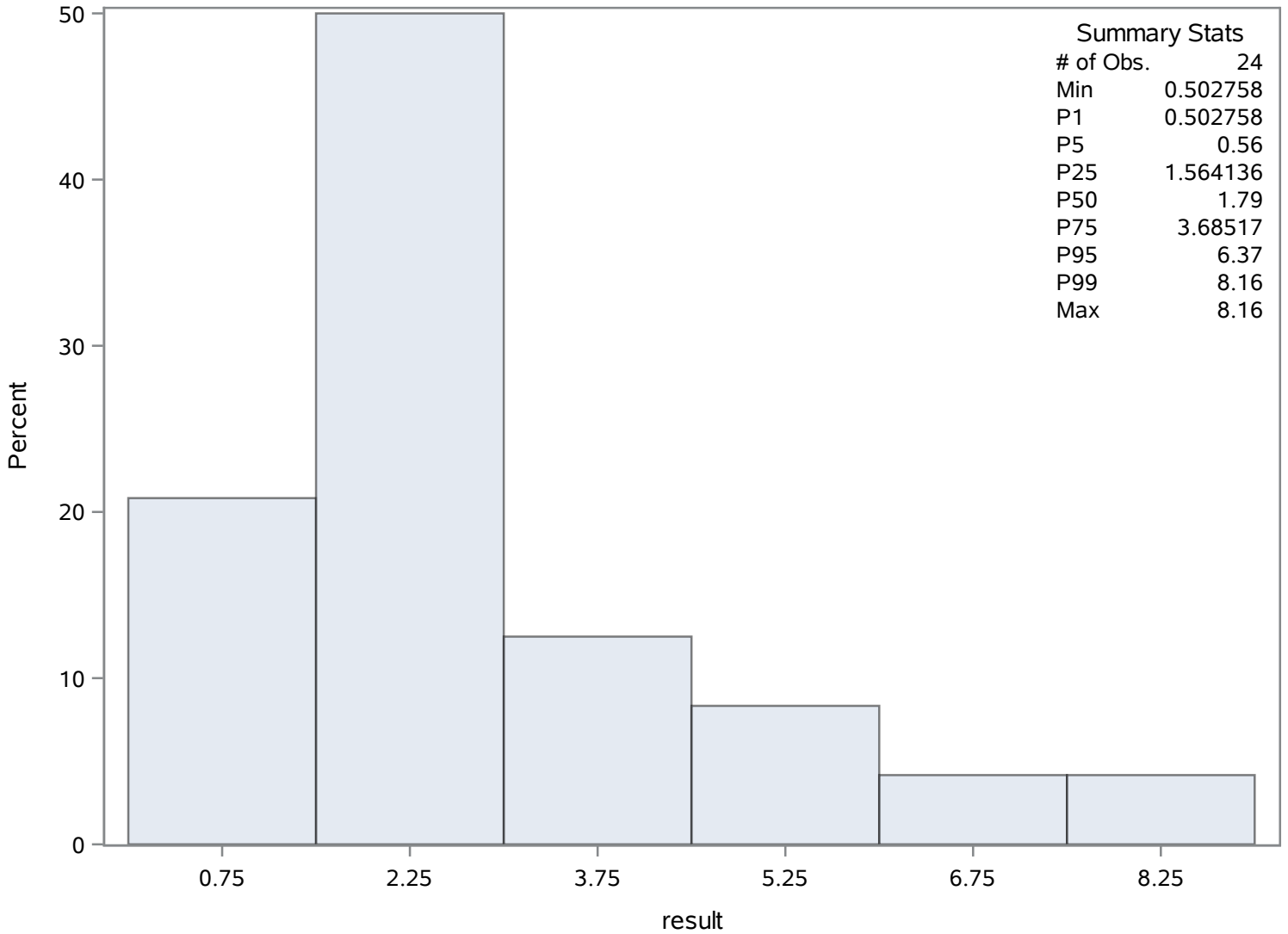
Quantiles (Definition 5)	
Level	Quantile
1%	0.502758
0% Min	0.502758

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.502758	91	4.25000	108
0.560000	111	4.80413	93
0.837930	94	5.25000	105
1.010000	103	6.37000	113
1.450000	106	8.16000	109

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	23.6888889	Sum Observations	1066
Std Deviation	10.1238293	Variance	102.491919
Skewness	1.44869337	Kurtosis	3.19663714
Uncorrected SS	29762	Corrected SS	4509.64444
Coeff Variation	42.7366151	Std Error Mean	1.50917136

Basic Statistical Measures			
Location		Variability	
Mean	23.68889	Std Deviation	10.12383
Median	22.00000	Variance	102.49192
Mode	15.00000	Range	51.00000
		Interquartile Range	14.00000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.69662	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	62
99%	62
95%	40
90%	37
75% Q3	30
50% Median	22
25% Q1	16
10%	14
5%	13

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

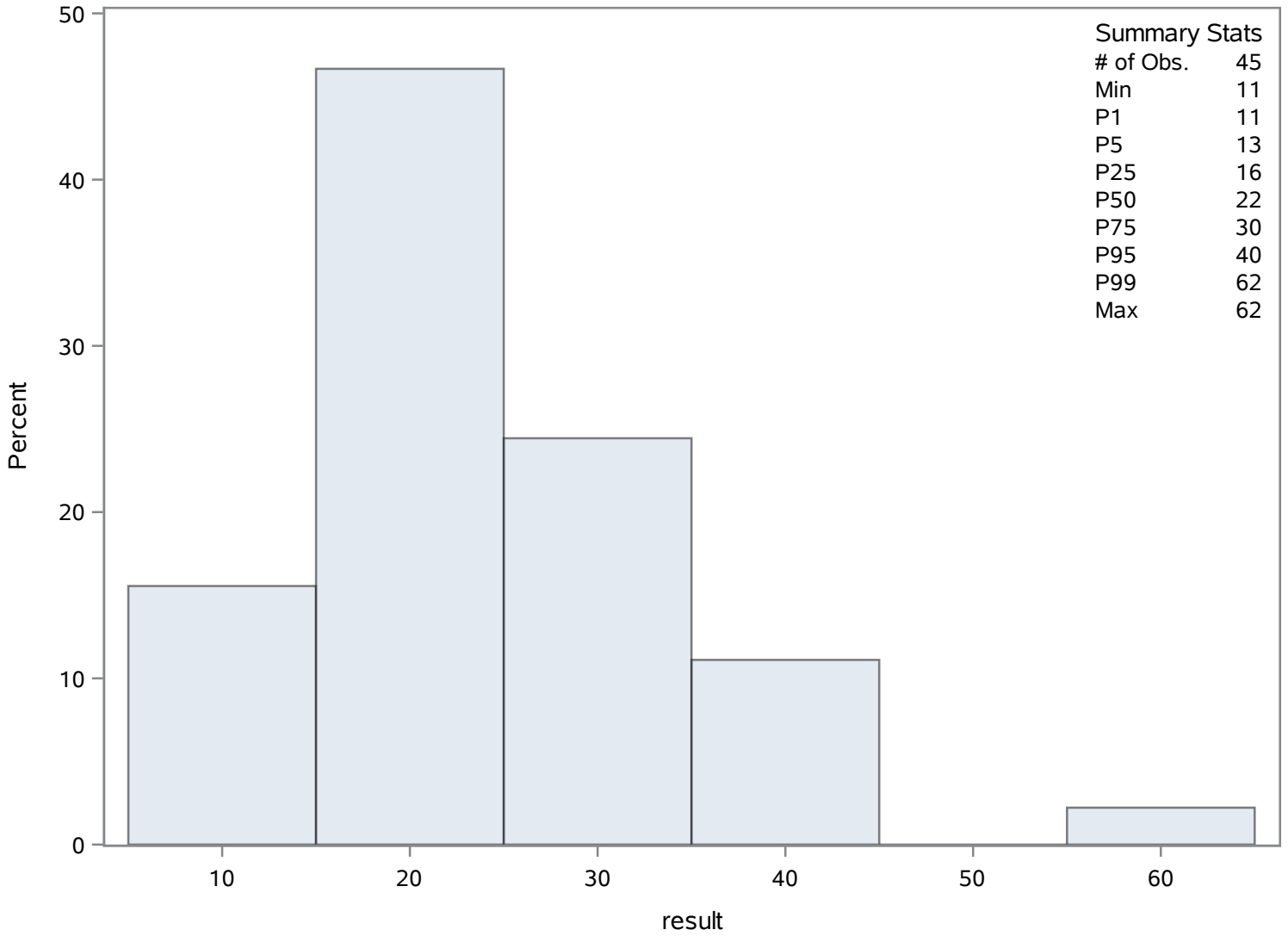
Quantiles (Definition 5)	
Level	Quantile
1%	11
0% Min	11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11	148	37	115
13	140	37	134
13	128	40	154
13	121	42	142
14	156	62	126

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	6.77533333	Sum Observations	304.89
Std Deviation	1.83843263	Variance	3.37983455
Skewness	0.30554138	Kurtosis	-0.7695427
Uncorrected SS	2214.4441	Corrected SS	148.71272
Coeff Variation	27.134202	Std Error Mean	0.27405736

Basic Statistical Measures			
Location		Variability	
Mean	6.775333	Std Deviation	1.83843
Median	6.570000	Variance	3.37983
Mode	5.090000	Range	7.10000
		Interquartile Range	2.71000

Note: The mode displayed is the smallest of 2 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.72232	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.50
99%	10.50
95%	9.97
90%	9.50
75% Q3	8.10
50% Median	6.57
25% Q1	5.39
10%	4.60
5%	4.20

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
DO_mgL

The UNIVARIATE Procedure
Variable: result

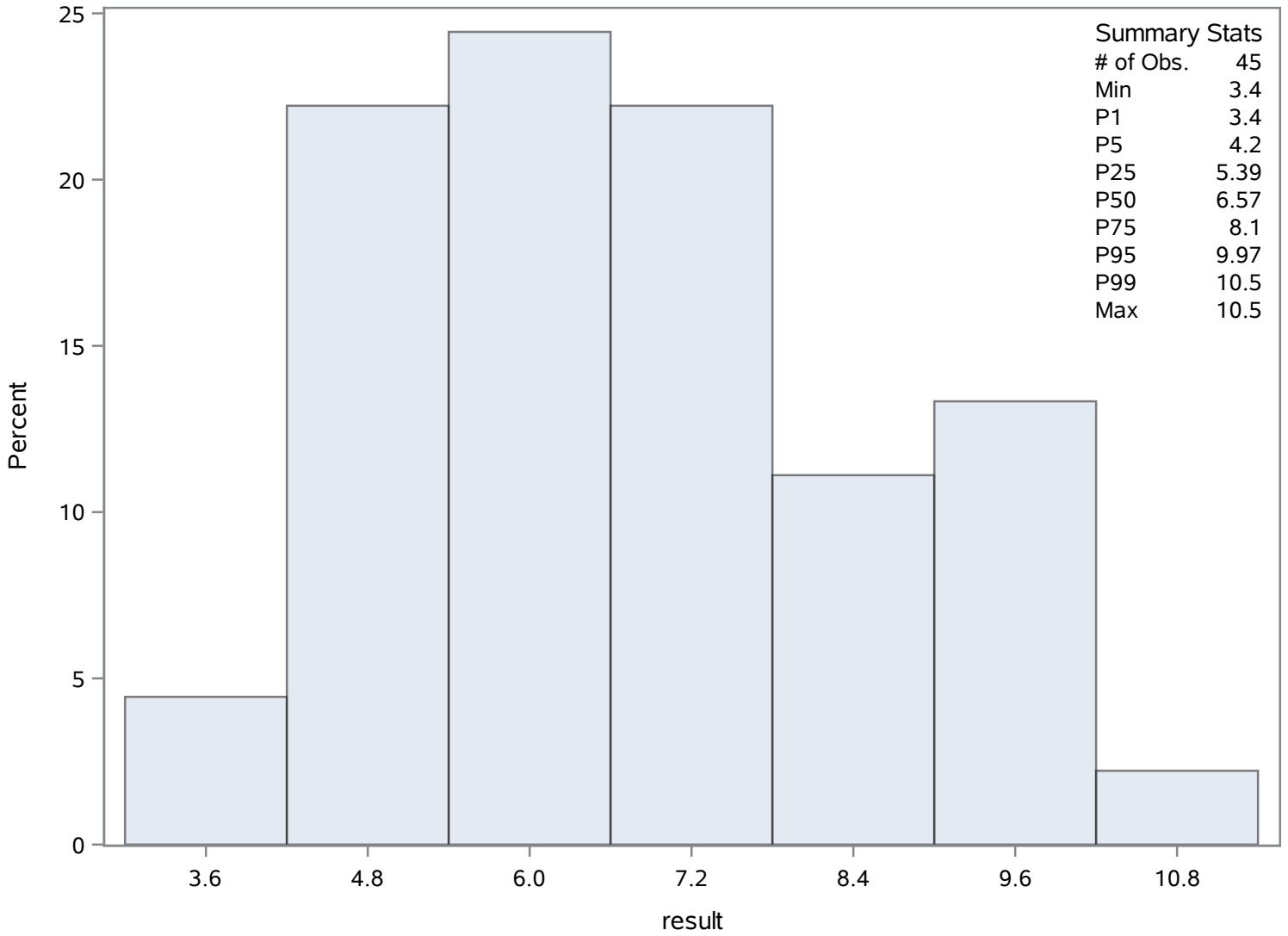
Quantiles (Definition 5)	
Level	Quantile
1%	3.40
0% Min	3.40

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.40	164	9.50	162
3.84	203	9.83	169
4.20	168	9.97	201
4.30	167	10.07	180
4.60	161	10.50	181

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	30.4244444	Sum Observations	1369.1
Std Deviation	19.065499	Variance	363.493253
Skewness	1.11176189	Kurtosis	1.32101209
Uncorrected SS	57647.81	Corrected SS	15993.7031
Coeff Variation	62.6650687	Std Error Mean	2.84211679

Basic Statistical Measures			
Location		Variability	
Mean	30.42444	Std Deviation	19.06550
Median	27.00000	Variance	363.49325
Mode	20.00000	Range	87.00000
		Interquartile Range	18.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	10.70485	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	88.0
99%	88.0
95%	69.0
90%	58.0
75% Q3	37.0
50% Median	27.0
25% Q1	19.0
10%	10.0
5%	4.1
1%	1.0
0% Min	1.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NH4_ugl

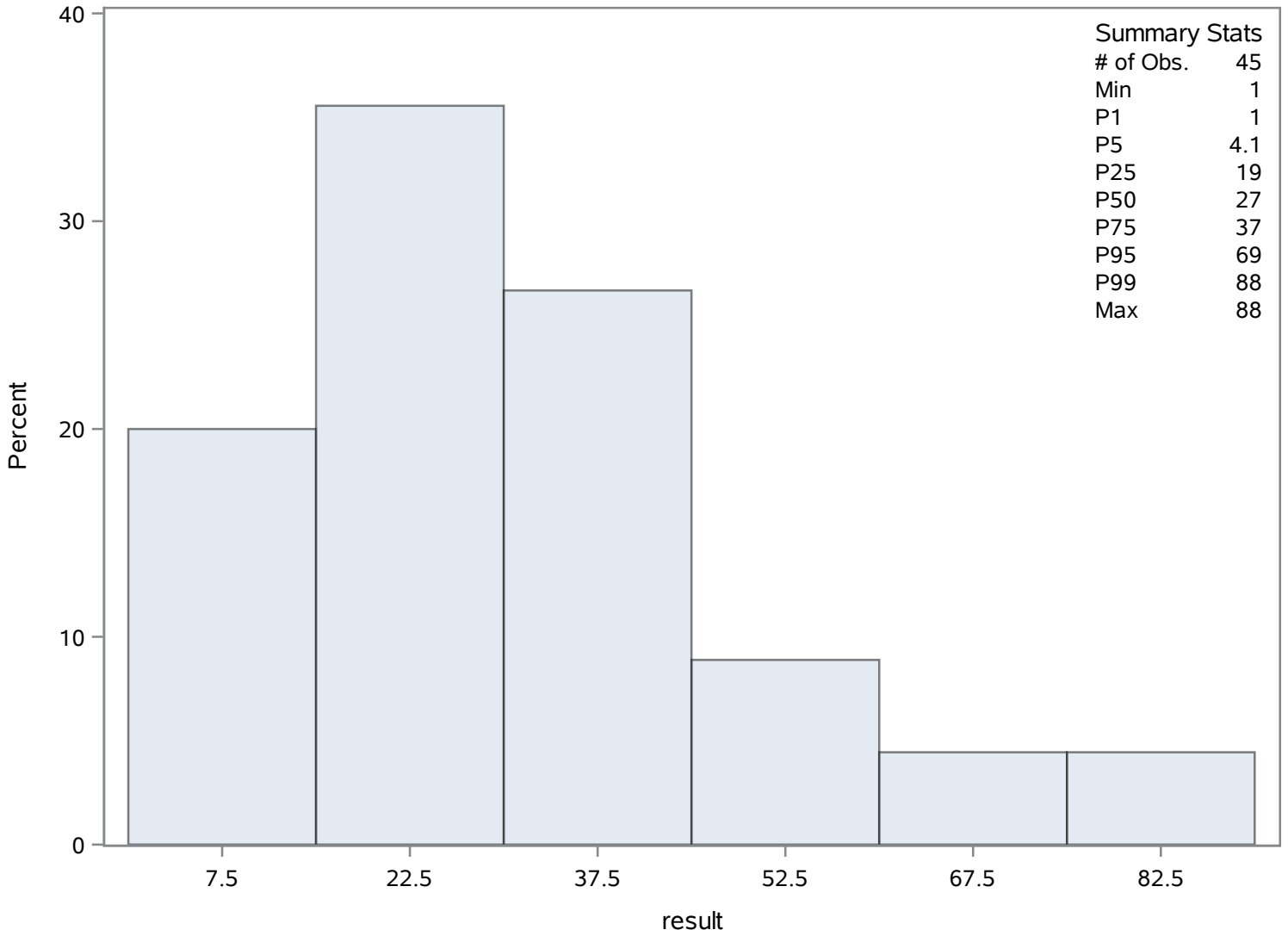
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	225	58	230
4.0	214	62	206
4.1	228	69	210
10.0	218	78	209
10.0	207	88	226

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	28.6333333	Sum Observations	1288.5
Std Deviation	29.2416266	Variance	855.072727
Skewness	1.7352363	Kurtosis	2.30476941
Uncorrected SS	74517.25	Corrected SS	37623.2
Coeff Variation	102.124424	Std Error Mean	4.35908433

Basic Statistical Measures			
Location		Variability	
Mean	28.63333	Std Deviation	29.24163
Median	22.00000	Variance	855.07273
Mode	26.00000	Range	117.00000
		Interquartile Range	20.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.568658	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	118
99%	118
95%	99
90%	84
75% Q3	29
50% Median	22
25% Q1	9
10%	4
5%	4
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NO3_ugL

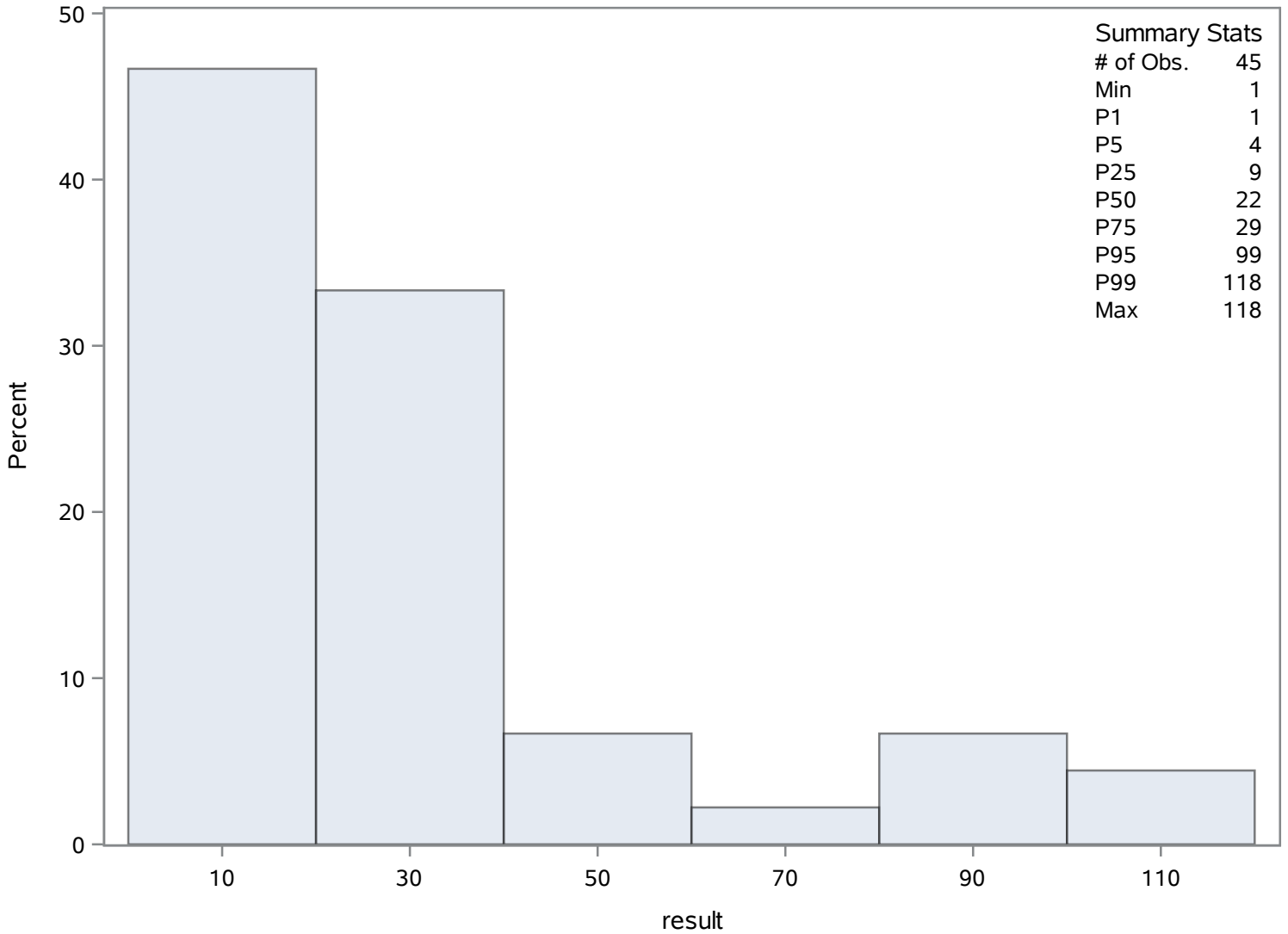
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	252	84	251
2	266	99	293
4	290	99	294
4	289	100	261
4	288	118	272

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	13.7877778	Sum Observations	620.45
Std Deviation	4.31044234	Variance	18.5799131
Skewness	0.32720192	Kurtosis	0.49189684
Uncorrected SS	9372.1429	Corrected SS	817.516178
Coeff Variation	31.2627778	Std Error Mean	0.64256281

Basic Statistical Measures			
Location		Variability	
Mean	13.78778	Std Deviation	4.31044
Median	13.42000	Variance	18.57991
Mode	13.58000	Range	20.75000
		Interquartile Range	4.43000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.45748	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.14
99%	24.14
95%	22.10
90%	18.60
75% Q3	15.72
50% Median	13.42
25% Q1	11.29
10%	8.50
5%	8.20

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SAL_Perc

The UNIVARIATE Procedure
Variable: result

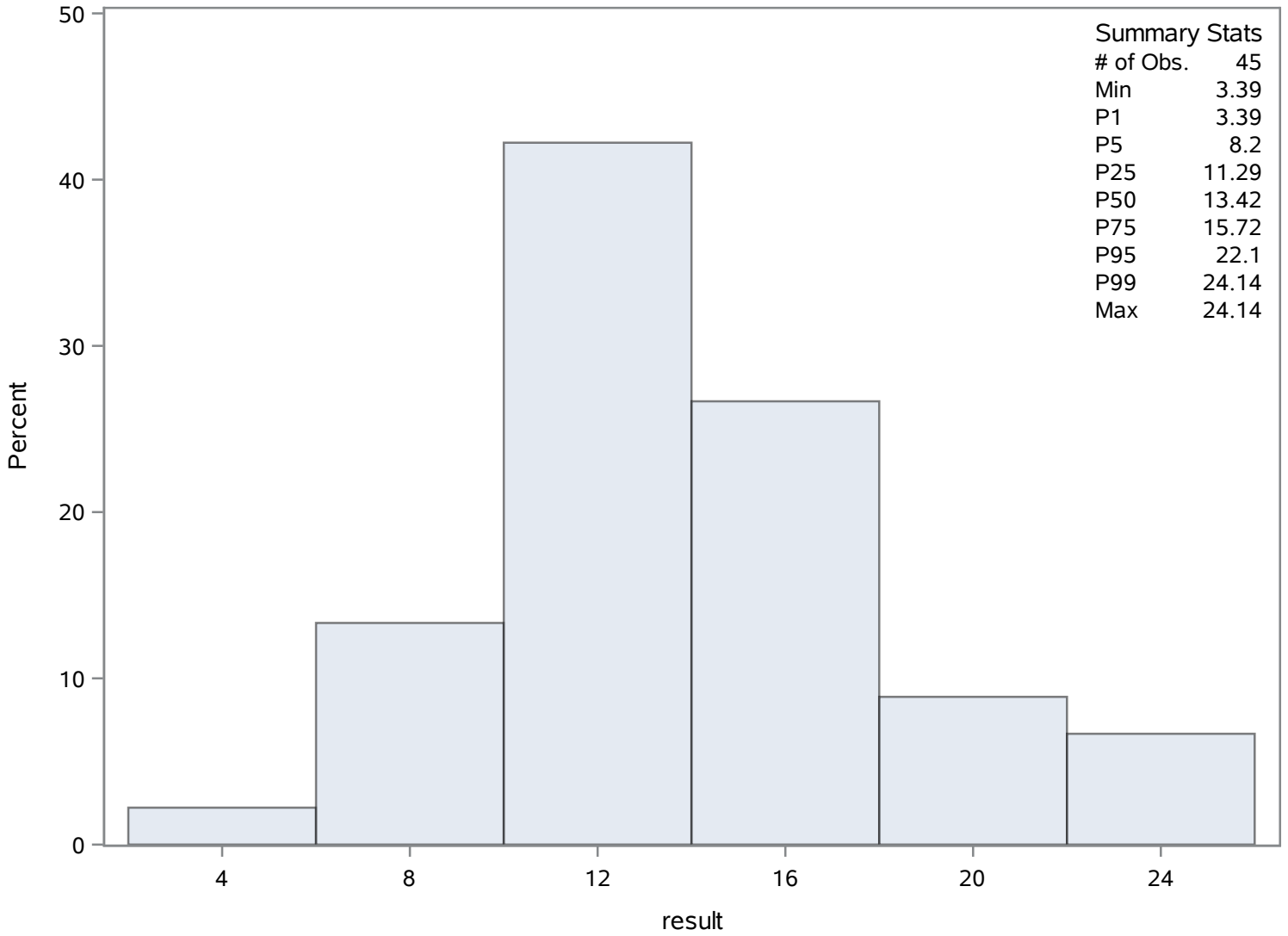
Quantiles (Definition 5)	
Level	Quantile
1%	3.39
0% Min	3.39

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.39	306	18.60	303
6.26	314	21.30	302
8.20	296	22.10	298
8.28	304	23.48	331
8.50	295	24.14	321

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	22.7508889	Sum Observations	1023.79
Std Deviation	6.63079929	Variance	43.9674992
Skewness	0.14895706	Kurtosis	0.35059602
Uncorrected SS	25226.7025	Corrected SS	1934.56996
Coeff Variation	29.1452317	Std Error Mean	0.9884612

Basic Statistical Measures			
Location		Variability	
Mean	22.75089	Std Deviation	6.63080
Median	22.23000	Variance	43.96750
Mode	.	Range	31.77000
		Interquartile Range	7.67000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.01647	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	38.05
99%	38.05
95%	35.15
90%	30.23
75% Q3	26.58
50% Median	22.23
25% Q1	18.91
10%	14.75
5%	12.18
1%	6.28
0% Min	6.28

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SPCOND_mS_cm

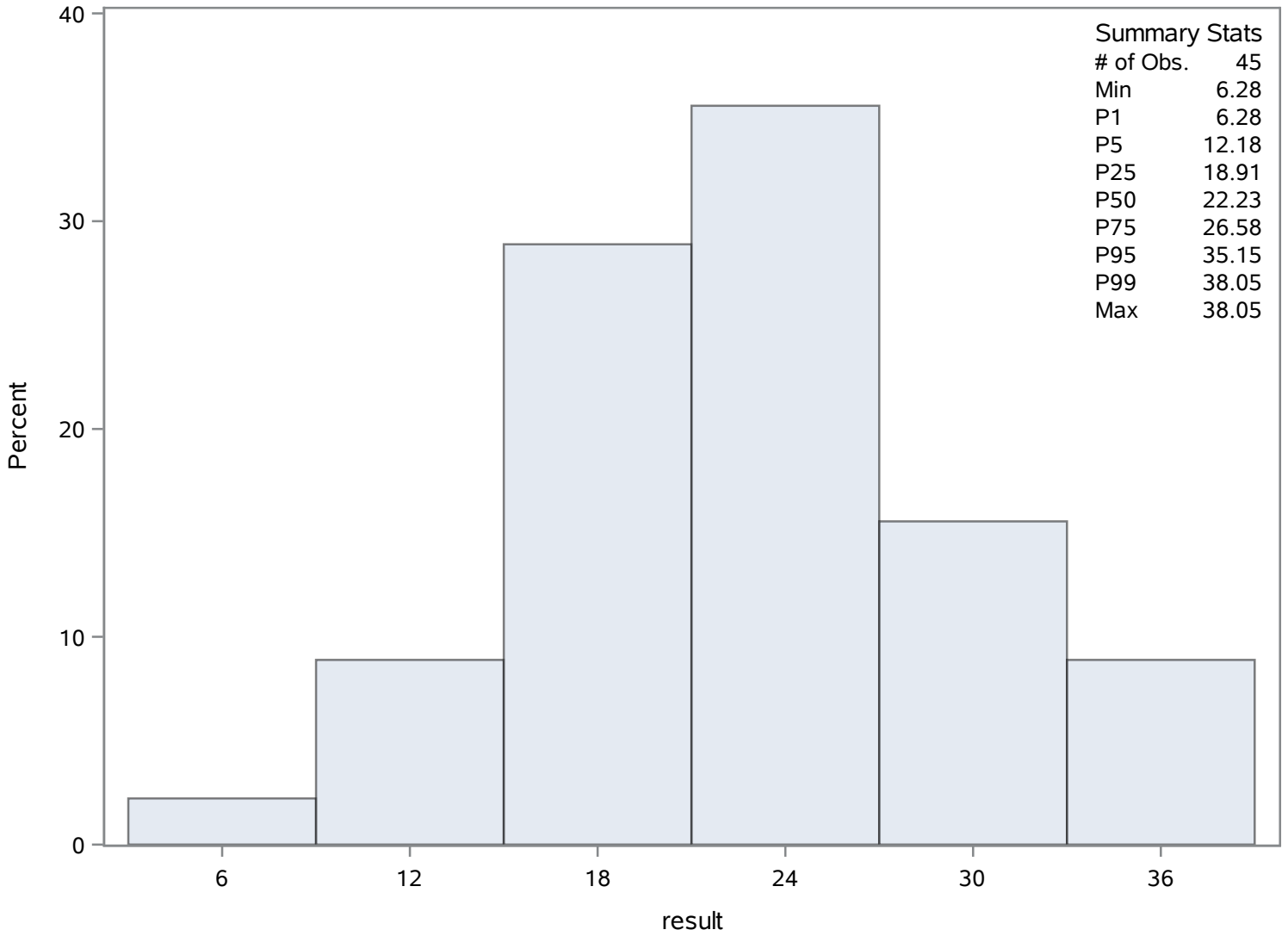
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.28	351	30.23	348
11.10	359	33.22	347
12.18	349	35.15	343
14.18	341	37.00	376
14.75	340	38.05	366

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	39	Sum Weights	39
Mean	2.33333333	Sum Observations	91
Std Deviation	1.47493681	Variance	2.1754386
Skewness	0.94133154	Kurtosis	-0.5546587
Uncorrected SS	295	Corrected SS	82.6666667
Coeff Variation	63.2115776	Std Error Mean	0.23617891

Basic Statistical Measures			
Location		Variability	
Mean	2.333333	Std Deviation	1.47494
Median	2.000000	Variance	2.17544
Mode	1.000000	Range	4.00000
		Interquartile Range	2.00000

Note: The mode displayed is the smallest of 2 modes with a count of 14.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	9.879516	Pr > t 	<.0001
Sign	M	19.5	Pr >= M 	<.0001
Signed Rank	S	390	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5
99%	5
95%	5
90%	5
75% Q3	3
50% Median	2
25% Q1	1
10%	1
5%	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SRP_ugL

The UNIVARIATE Procedure
Variable: result

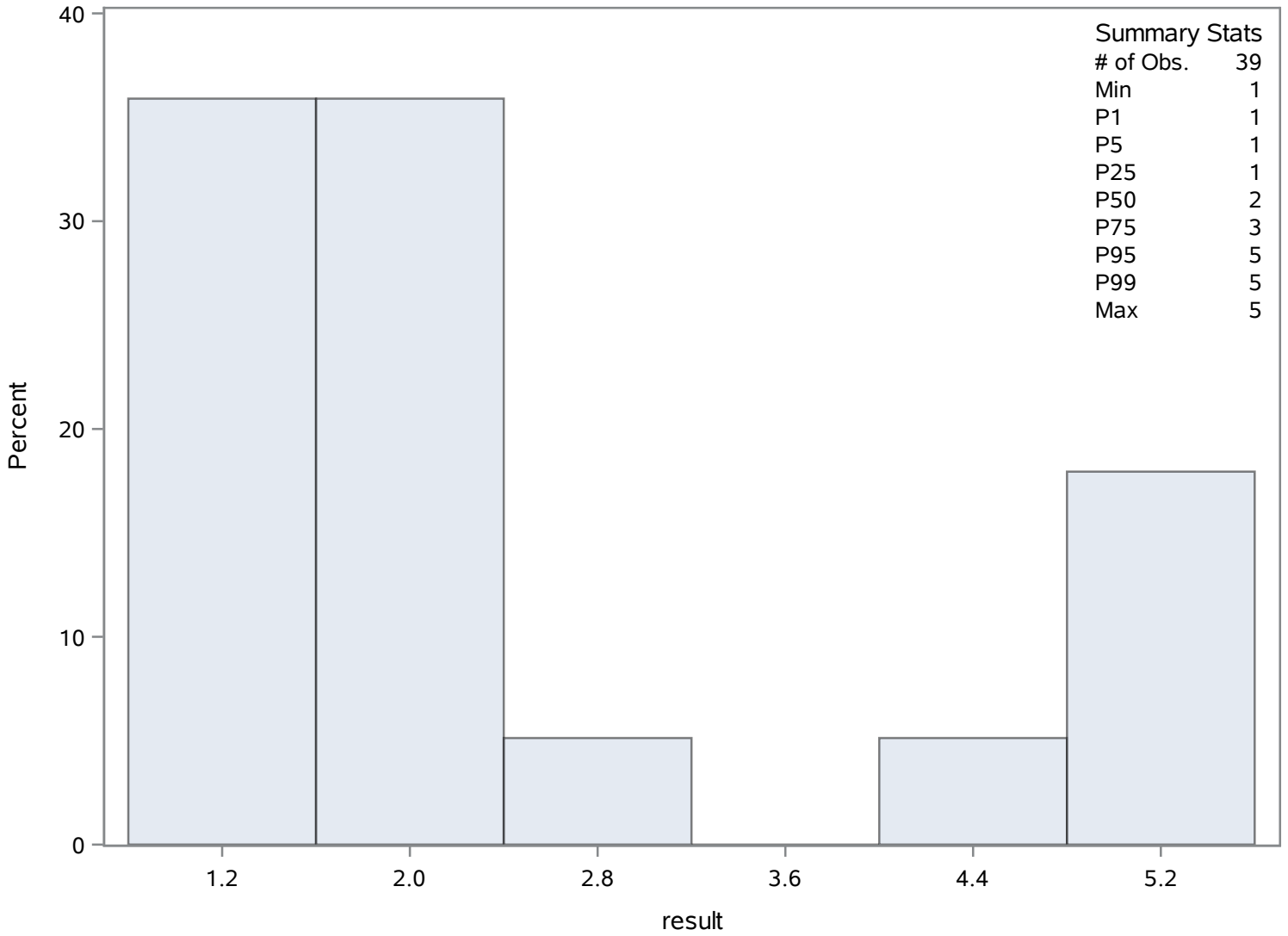
Quantiles (Definition 5)	
Level	Quantile
1%	1
0% Min	1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	421	5	402
1	420	5	414
1	405	5	415
1	404	5	422
1	400	5	423

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	23.4137778	Sum Observations	1053.62
Std Deviation	5.87370113	Variance	34.5003649
Skewness	-0.0486998	Kurtosis	-1.4643859
Uncorrected SS	26187.2406	Corrected SS	1518.01606
Coeff Variation	25.0865161	Std Error Mean	0.87559967

Basic Statistical Measures			
Location		Variability	
Mean	23.41378	Std Deviation	5.87370
Median	22.29000	Variance	34.50036
Mode	.	Range	18.68000
		Interquartile Range	10.88000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.74028	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.32
99%	31.32
95%	31.24
90%	31.00
75% Q3	29.50
50% Median	22.29
25% Q1	18.62
10%	15.28
5%	15.02
1%	12.64
0% Min	12.64

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TEMP_C

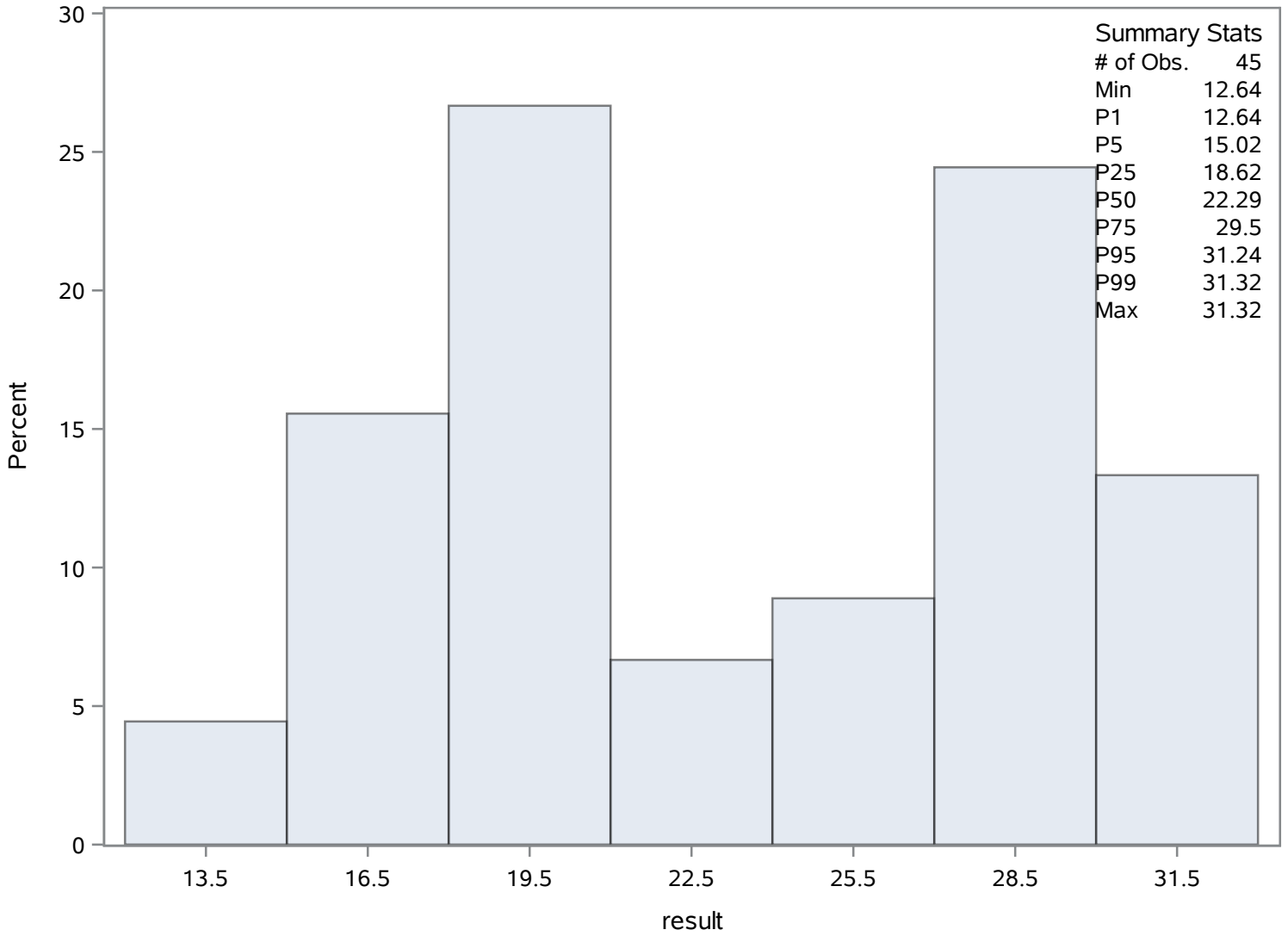
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.64	461	31.00	424
14.80	426	31.14	459
15.02	444	31.24	451
15.14	457	31.30	447
15.28	441	31.32	463

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	464.822222	Sum Observations	20917
Std Deviation	133.048229	Variance	17701.8313
Skewness	0.24419103	Kurtosis	-0.4289941
Uncorrected SS	10501567	Corrected SS	778880.578
Coeff Variation	28.6234657	Std Error Mean	19.833659

Basic Statistical Measures			
Location		Variability	
Mean	464.8222	Std Deviation	133.04823
Median	450.0000	Variance	17702
Mode	330.0000	Range	570.00000
		Interquartile Range	180.00000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	23.43603	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	770
99%	770
95%	700
90%	650
75% Q3	550
50% Median	450
25% Q1	370
10%	310
5%	280

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TN_ugl

The UNIVARIATE Procedure
Variable: result

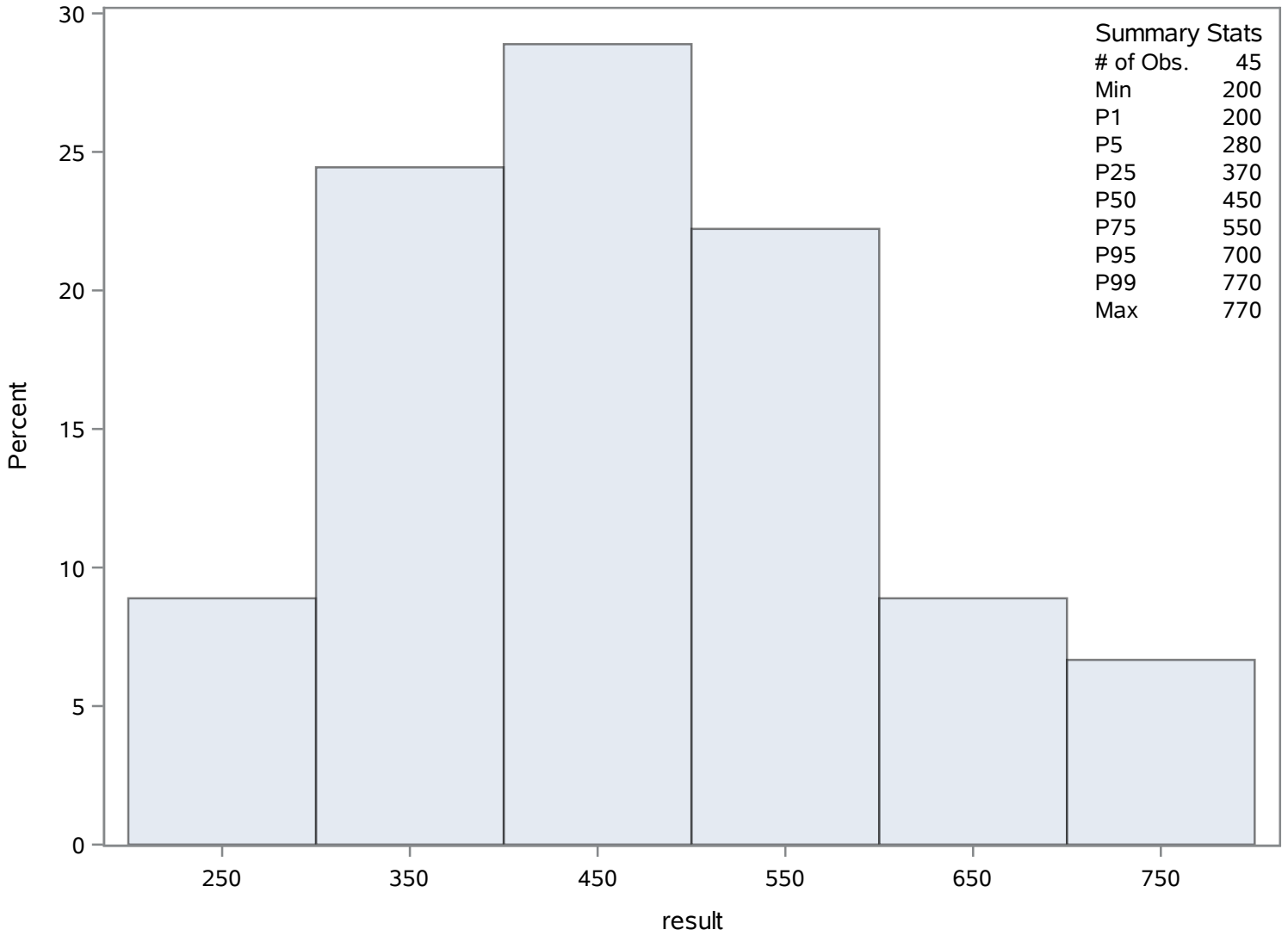
Quantiles (Definition 5)	
Level	Quantile
1%	200
0% Min	200

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
200	485	650	504
230	471	660	473
280	510	700	508
280	490	710	469
310	482	770	496

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	16.0444444	Sum Observations	722
Std Deviation	6.97057307	Variance	48.5888889
Skewness	1.87785744	Kurtosis	4.92938319
Uncorrected SS	13722	Corrected SS	2137.91111
Coeff Variation	43.4454	Std Error Mean	1.03911168

Basic Statistical Measures			
Location		Variability	
Mean	16.04444	Std Deviation	6.97057
Median	15.00000	Variance	48.58889
Mode	12.00000	Range	38.00000
		Interquartile Range	6.00000

Note: The mode displayed is the smallest of 2 modes with a count of 5.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	15.44054	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	42
99%	42
95%	33
90%	20
75% Q3	18
50% Median	15
25% Q1	12
10%	10
5%	8

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TP_ugl

The UNIVARIATE Procedure
Variable: result

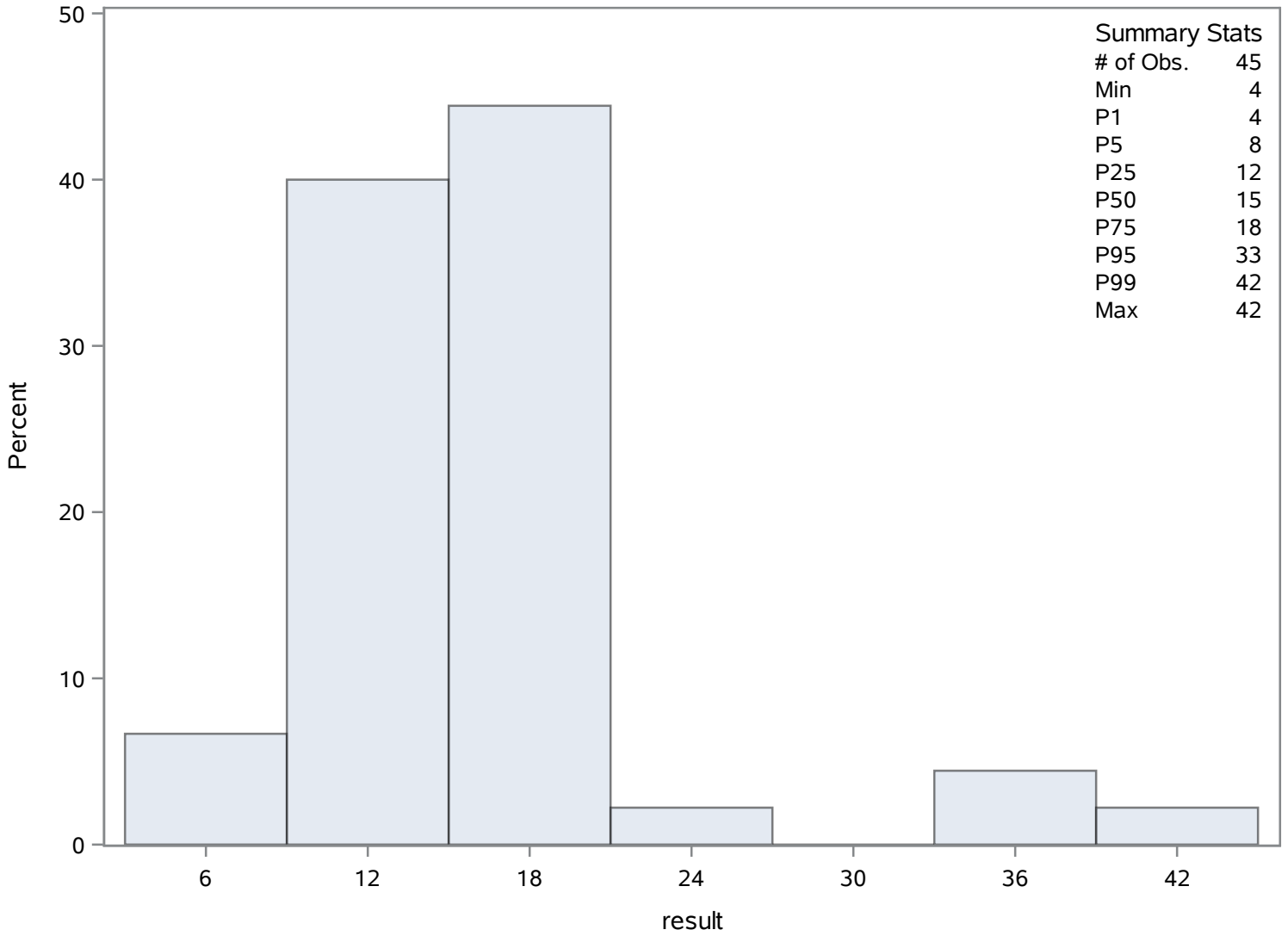
Quantiles (Definition 5)	
Level	Quantile
1%	4
0% Min	4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4	555	20	554
8	538	24	549
8	535	33	552
10	550	36	525
10	547	42	526

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	7.95555556	Sum Observations	286.4
Std Deviation	0.20063392	Variance	0.04025397
Skewness	0.0185579	Kurtosis	-0.7191325
Uncorrected SS	2279.88	Corrected SS	1.40888889
Coeff Variation	2.5219347	Std Error Mean	0.03343899

Basic Statistical Measures			
Location		Variability	
Mean	7.955556	Std Deviation	0.20063
Median	7.920000	Variance	0.04025
Mode	7.800000	Range	0.74000
		Interquartile Range	0.31000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	237.9126	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.30
99%	8.30
95%	8.29
90%	8.26
75% Q3	8.11
50% Median	7.92
25% Q1	7.80
10%	7.72
5%	7.57

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Field

The UNIVARIATE Procedure
Variable: result

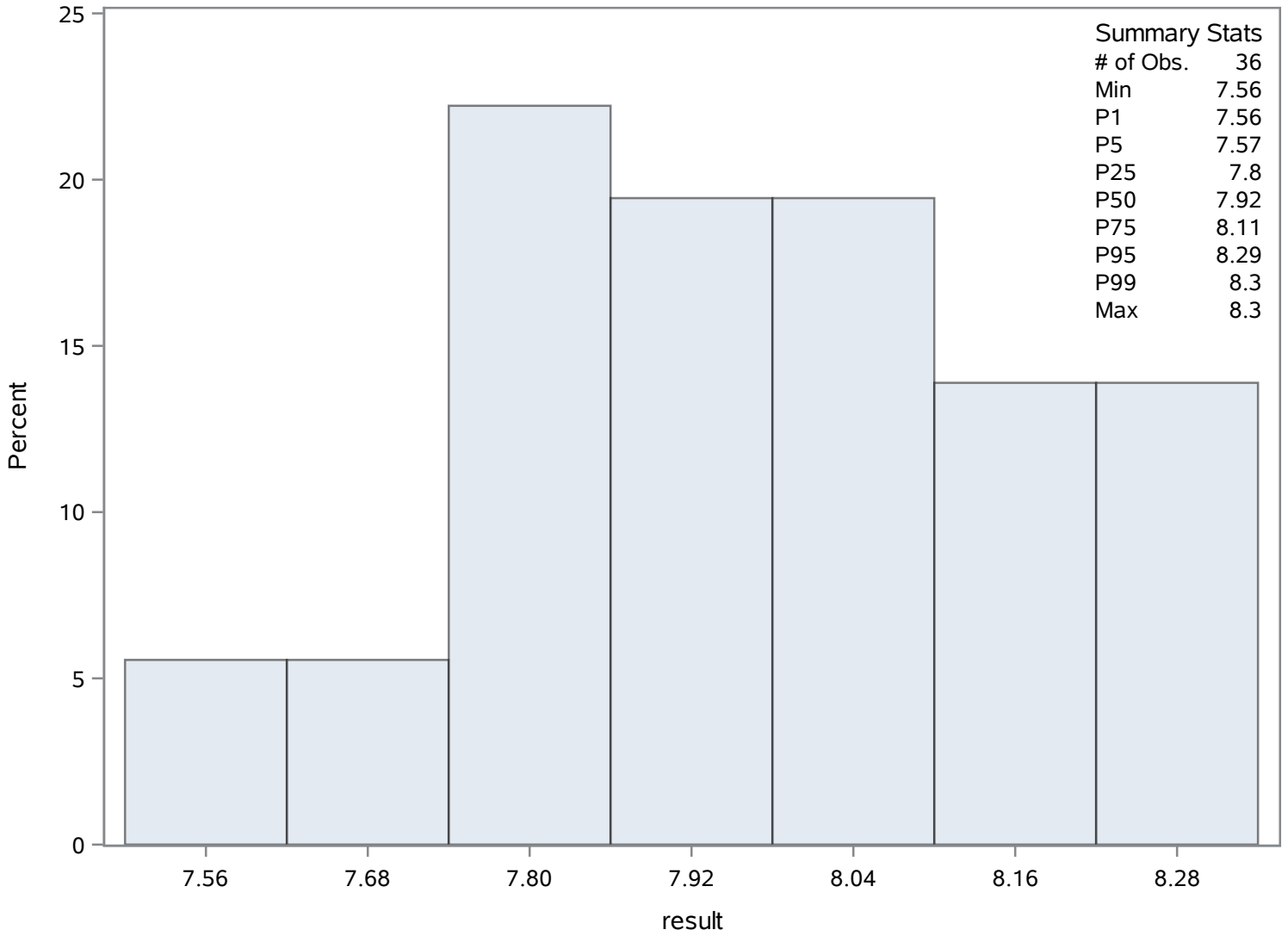
Quantiles (Definition 5)	
Level	Quantile
1%	7.56
0% Min	7.56

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.56	569	8.23	586
7.57	580	8.26	570
7.67	589	8.28	575
7.72	584	8.29	591
7.75	581	8.30	578

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	8.02888889	Sum Observations	361.3
Std Deviation	0.11797963	Variance	0.01391919
Skewness	0.35971744	Kurtosis	-0.4015814
Uncorrected SS	2901.45	Corrected SS	0.61244444
Coeff Variation	1.46943901	Std Error Mean	0.01758736

Basic Statistical Measures			
Location		Variability	
Mean	8.028889	Std Deviation	0.11798
Median	8.000000	Variance	0.01392
Mode	8.100000	Range	0.50000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	456.5146	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.3
99%	8.3
95%	8.2
90%	8.2
75% Q3	8.1
50% Median	8.0
25% Q1	7.9
10%	7.9
5%	7.9
1%	7.8
0% Min	7.8

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Lab

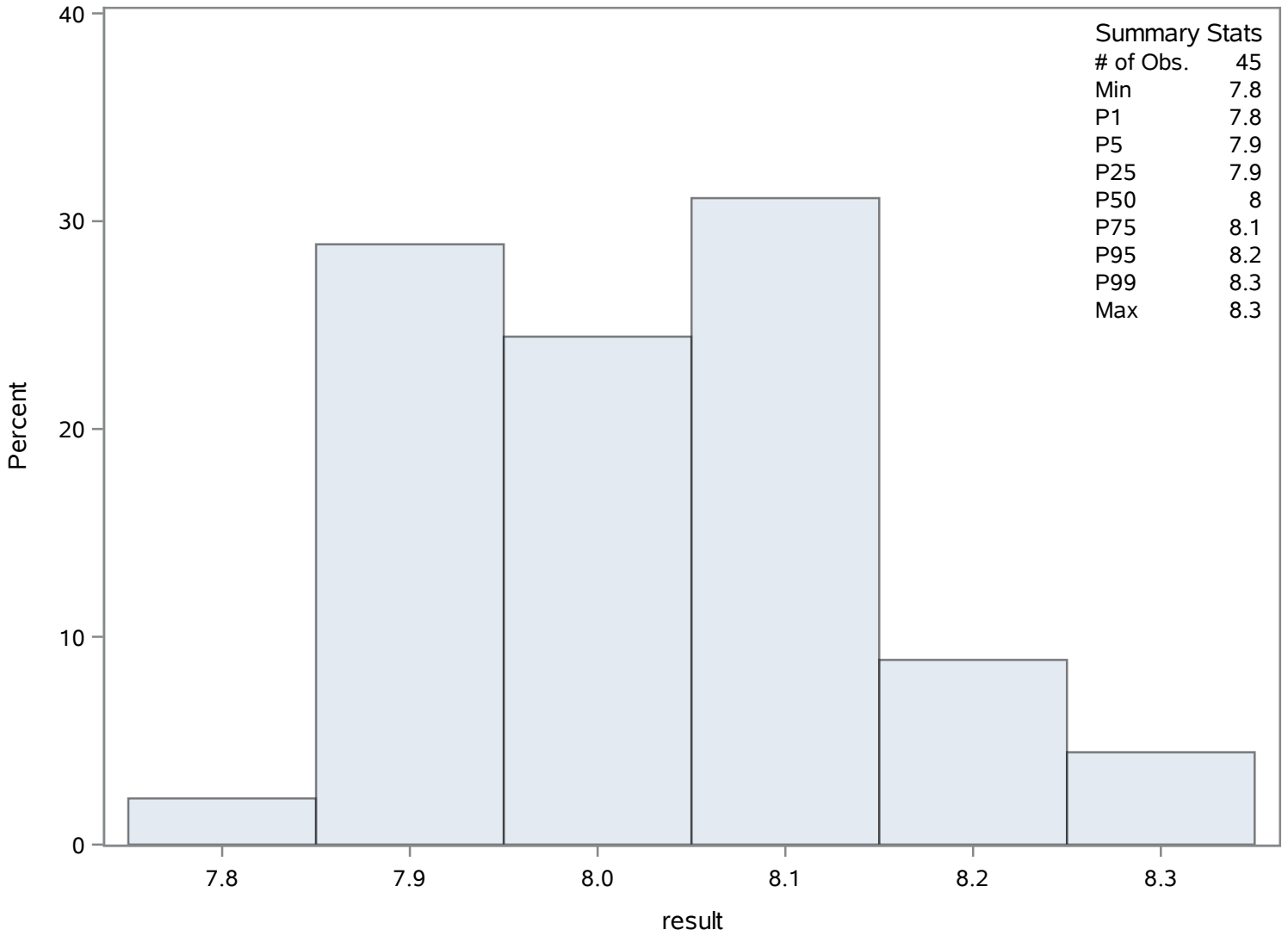
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.8	606	8.2	615
7.9	638	8.2	619
7.9	635	8.2	631
7.9	634	8.3	616
7.9	629	8.3	636

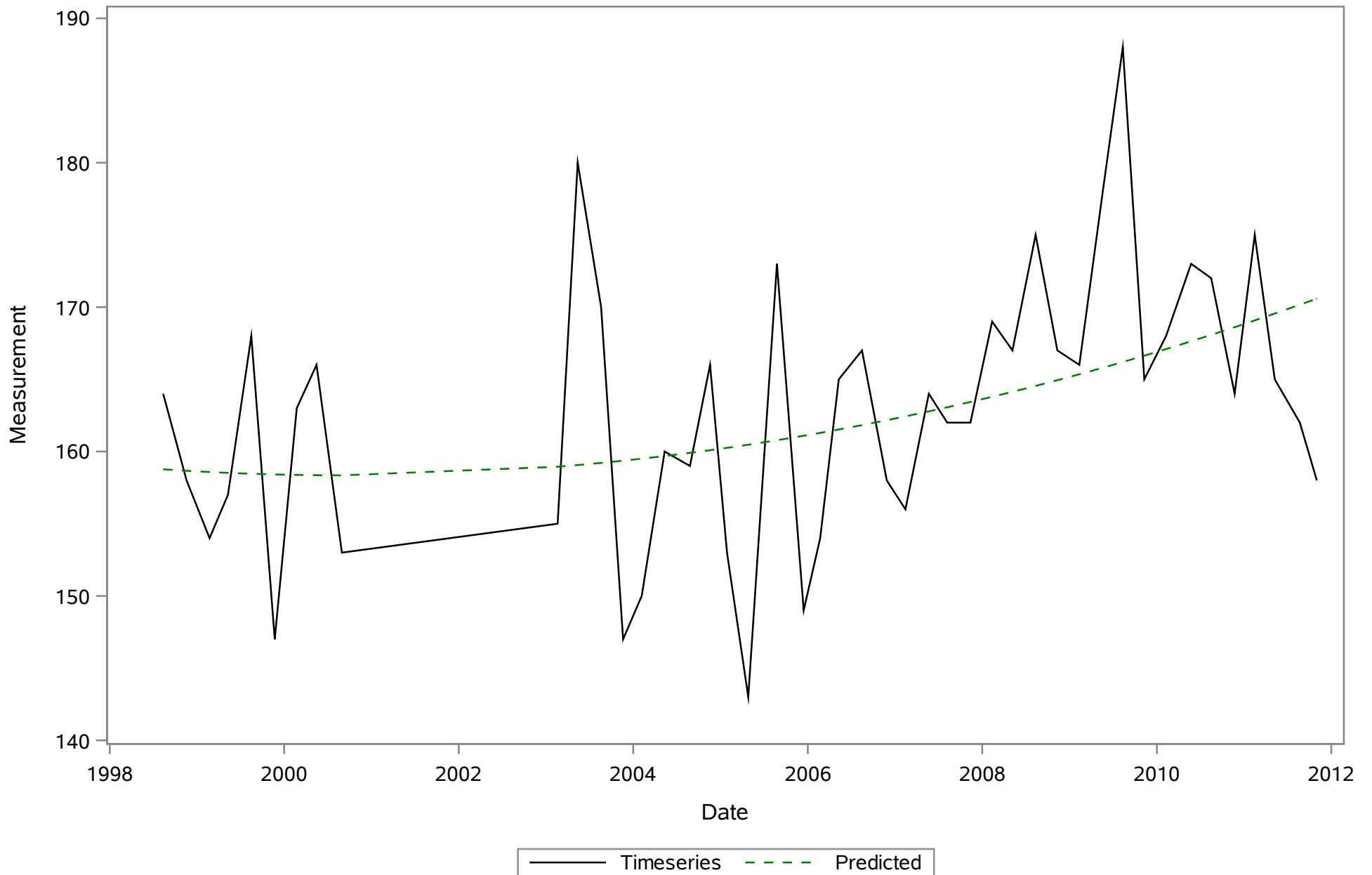
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Lab

The UNIVARIATE Procedure

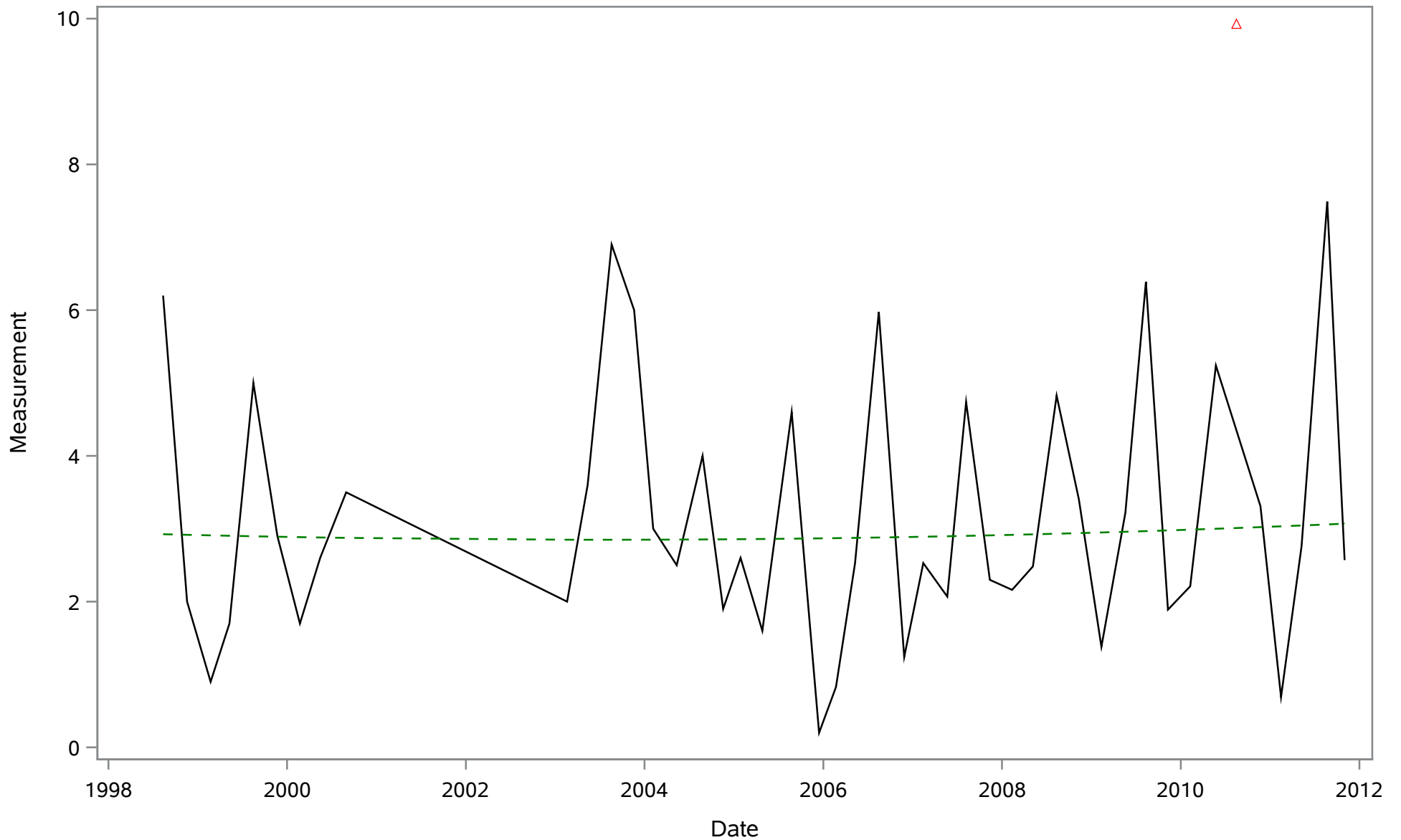
Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
ALK_tot_mgL

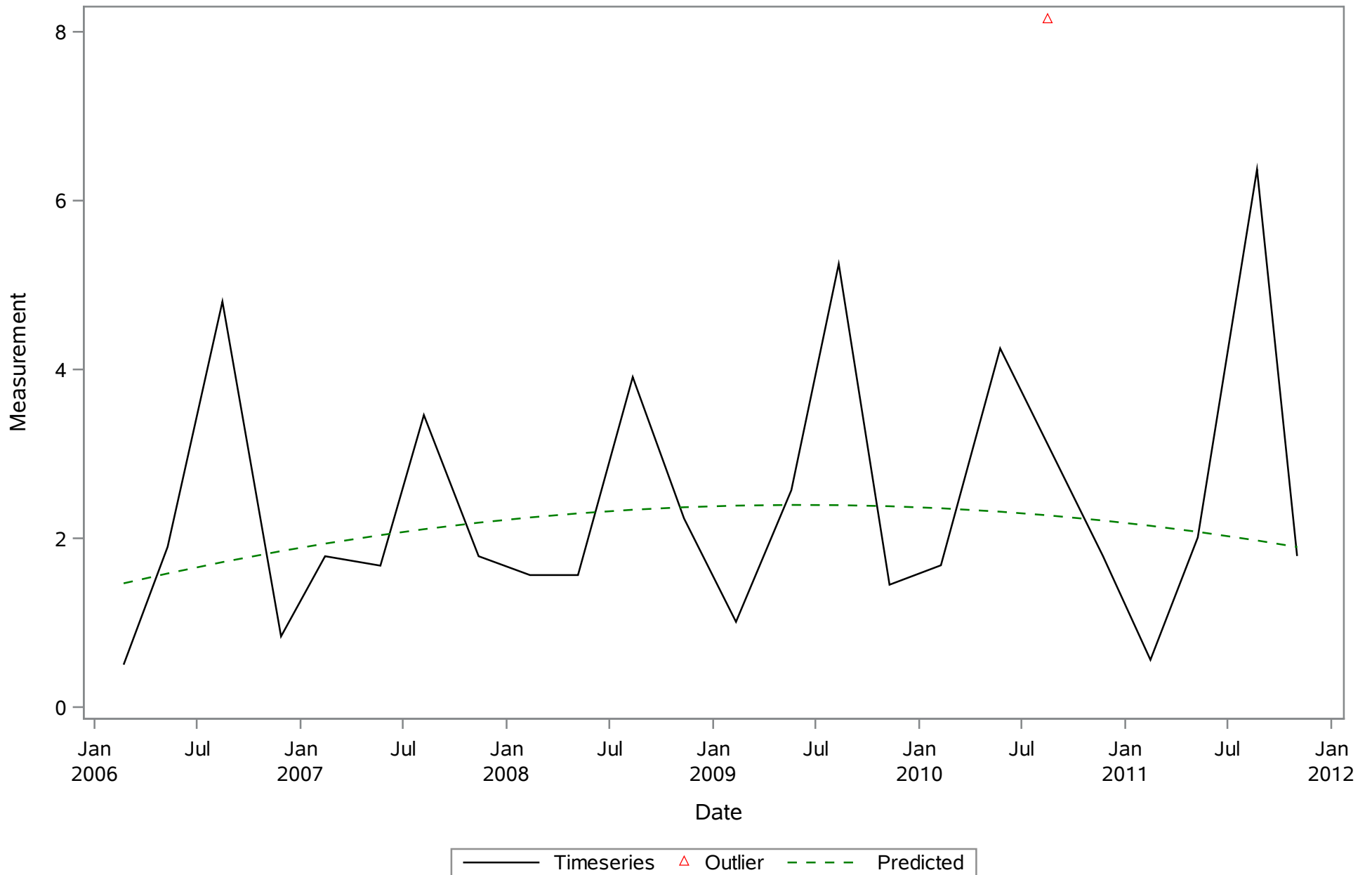


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_Uncor_ugL

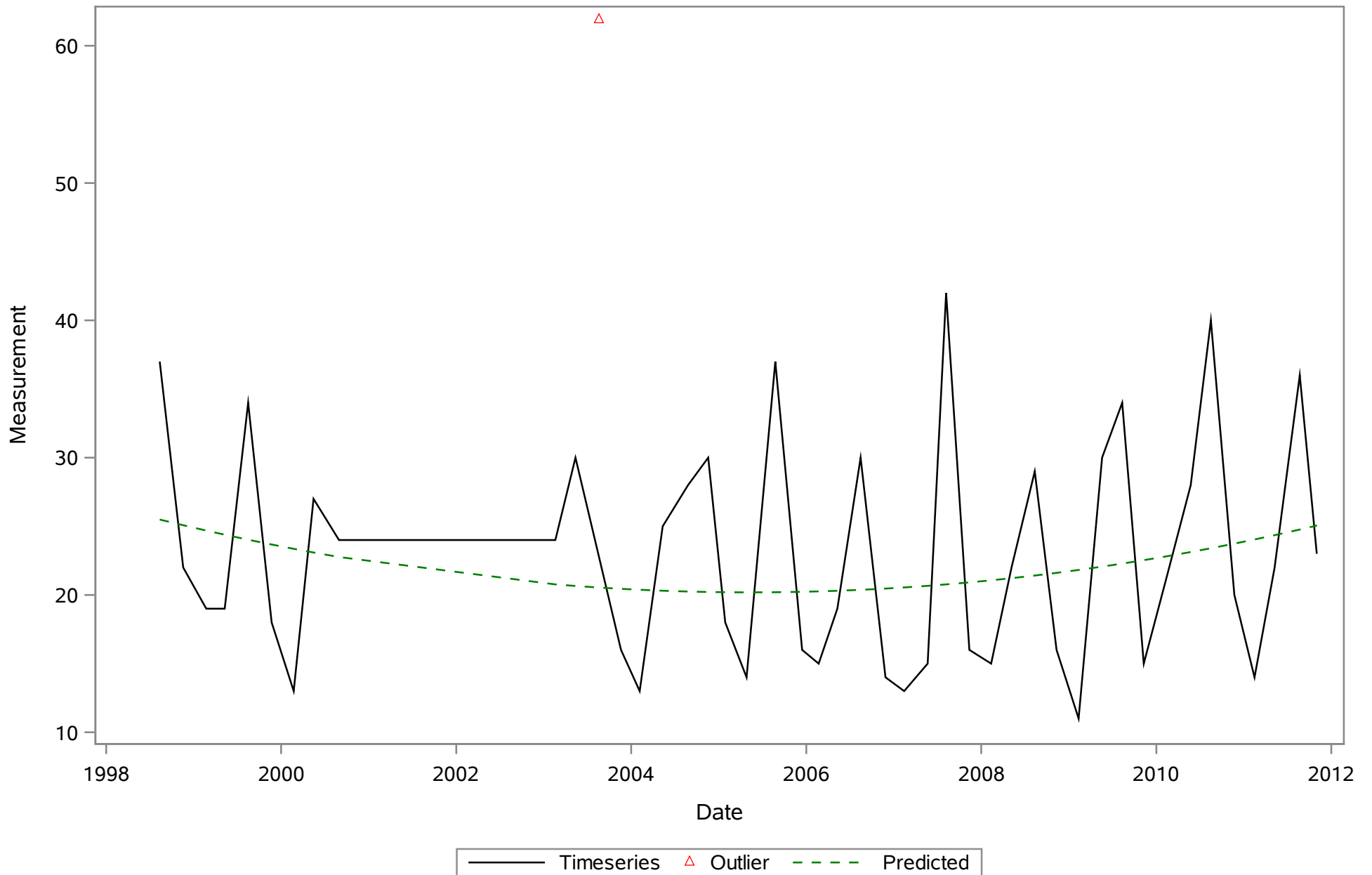


— Timeseries △ Outlier - - - Predicted

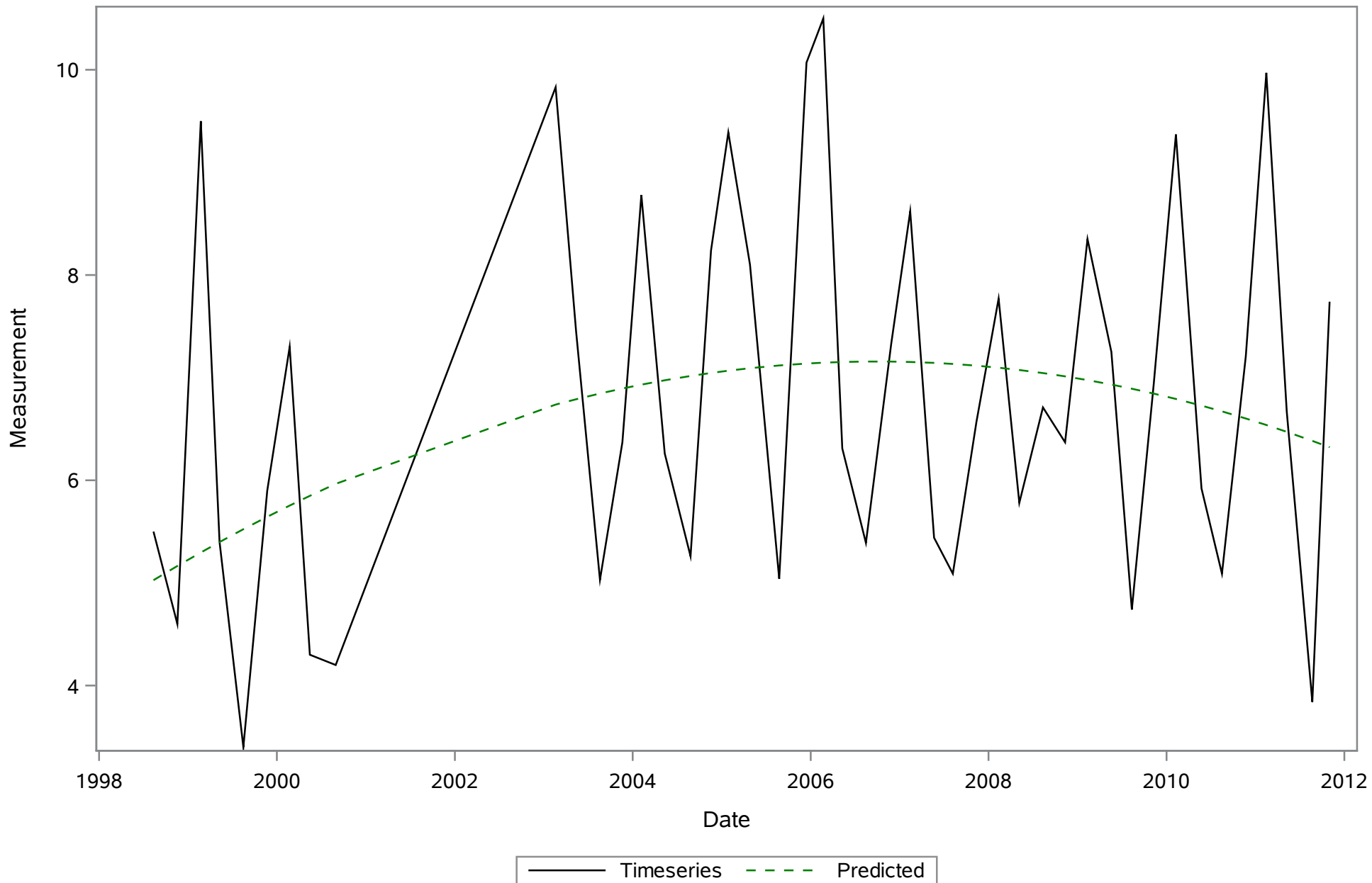
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_cor_ugl



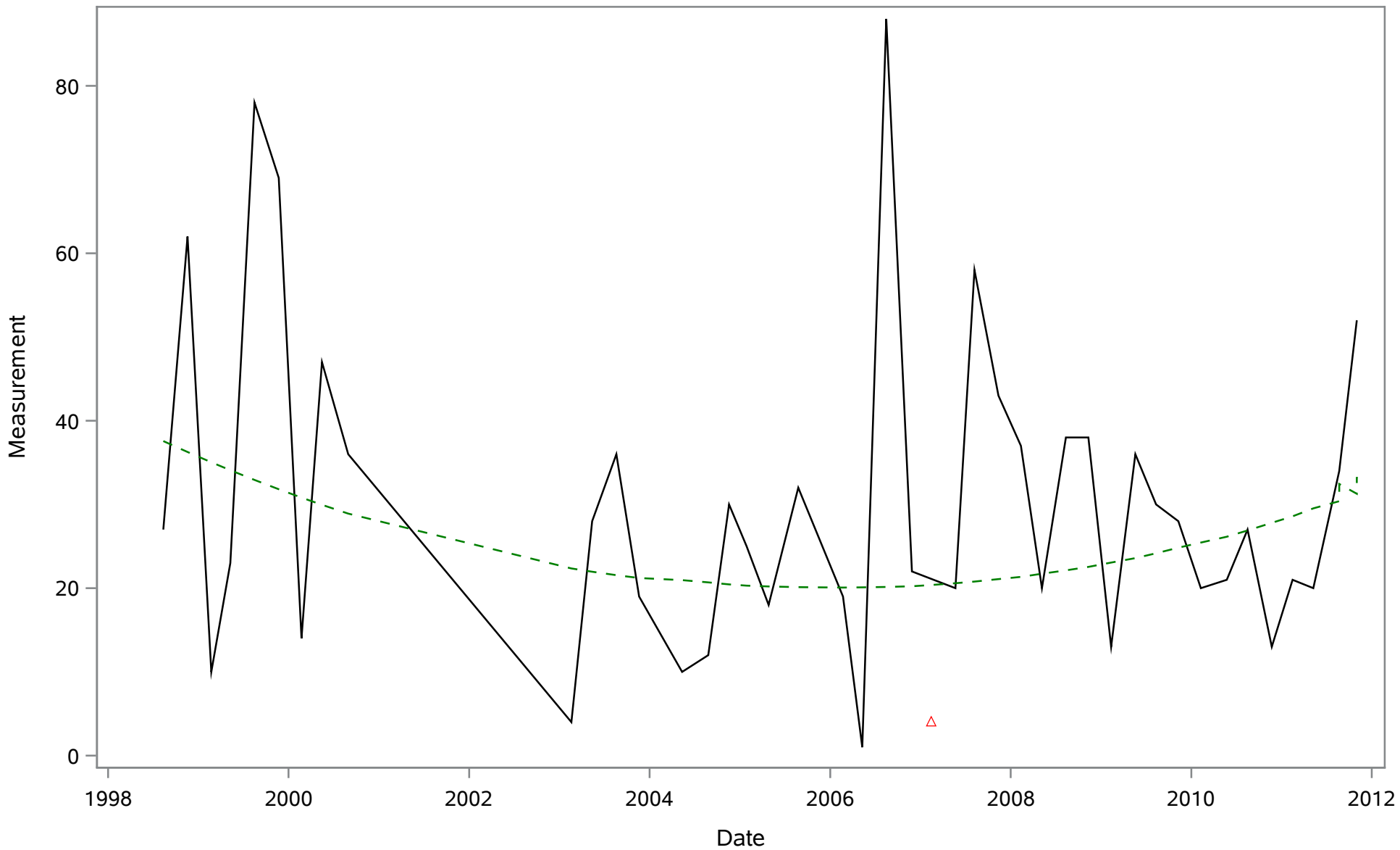
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
COLOR_PtCo



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
DO_mgL

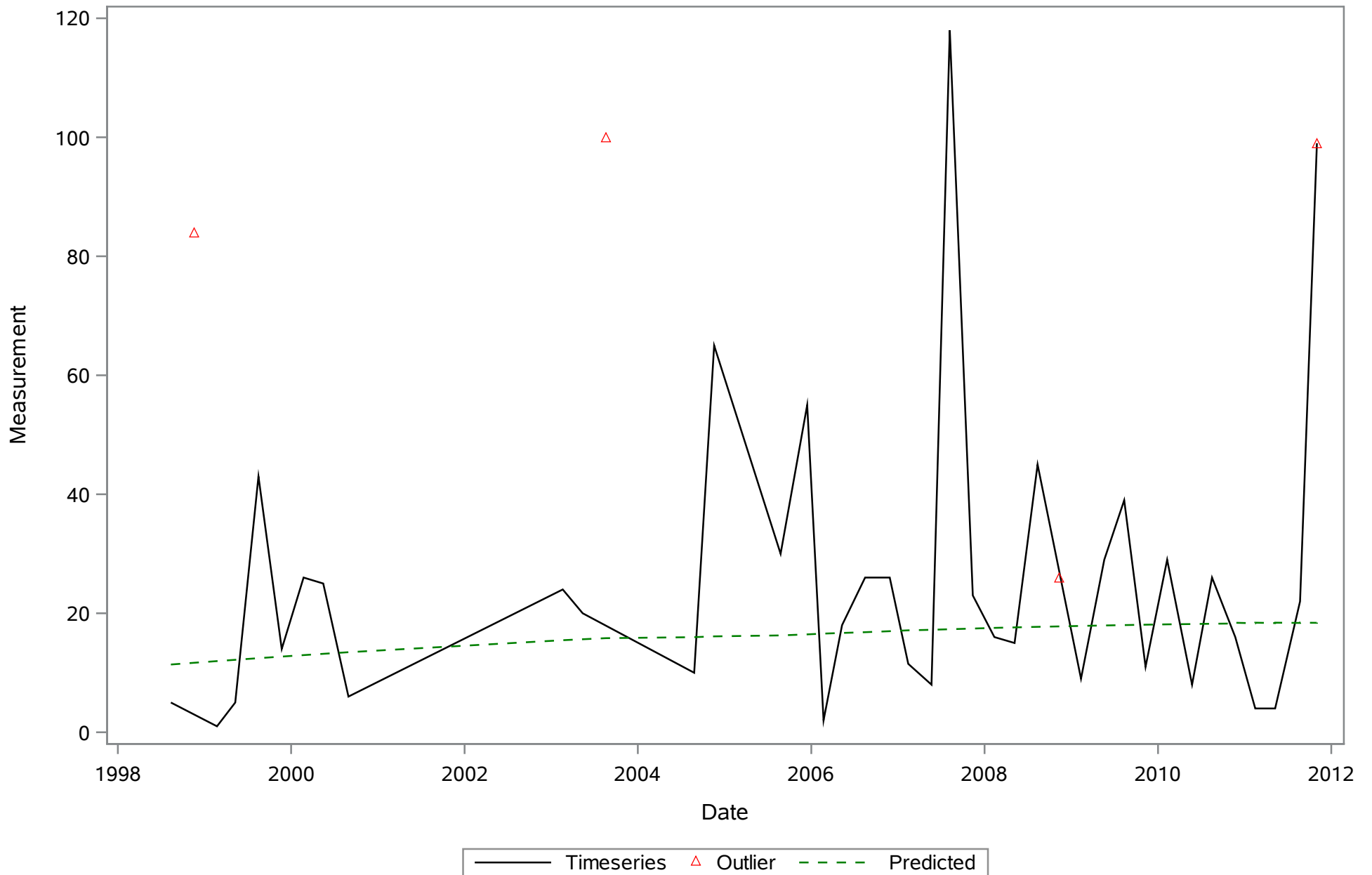


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NH4_ugl

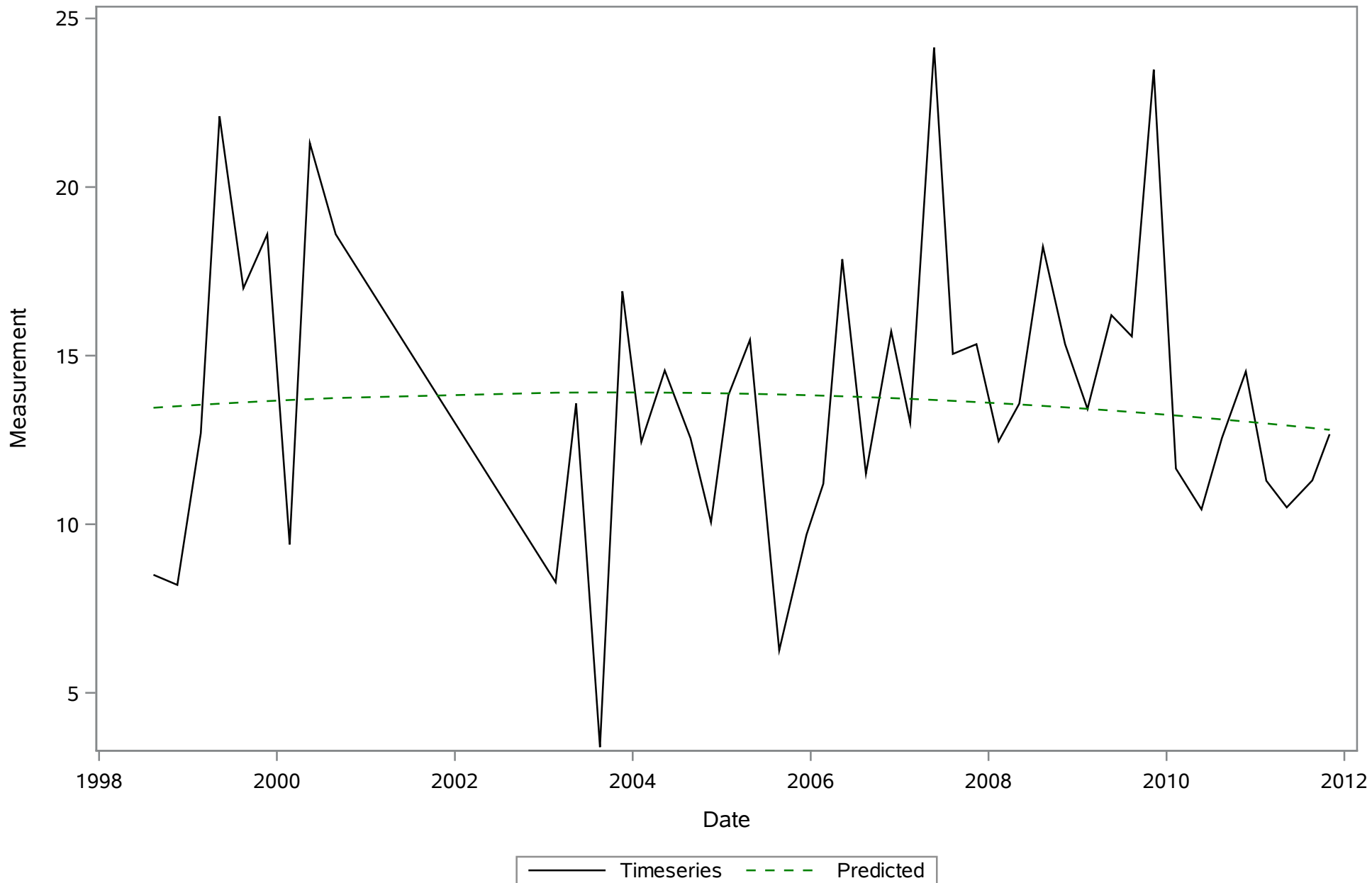


— Timeseries △ Outlier - - - Predicted

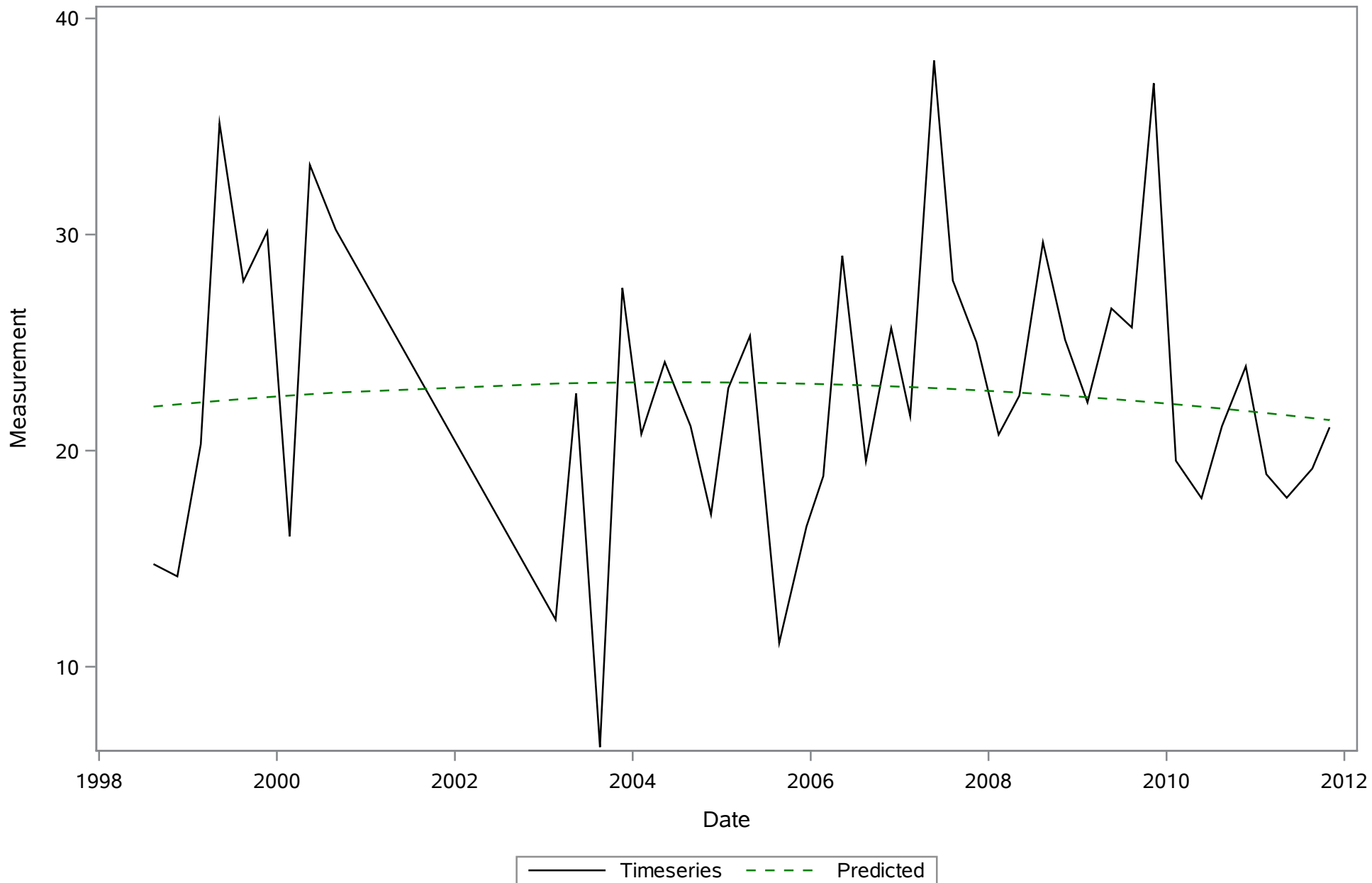
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NO3_ugL



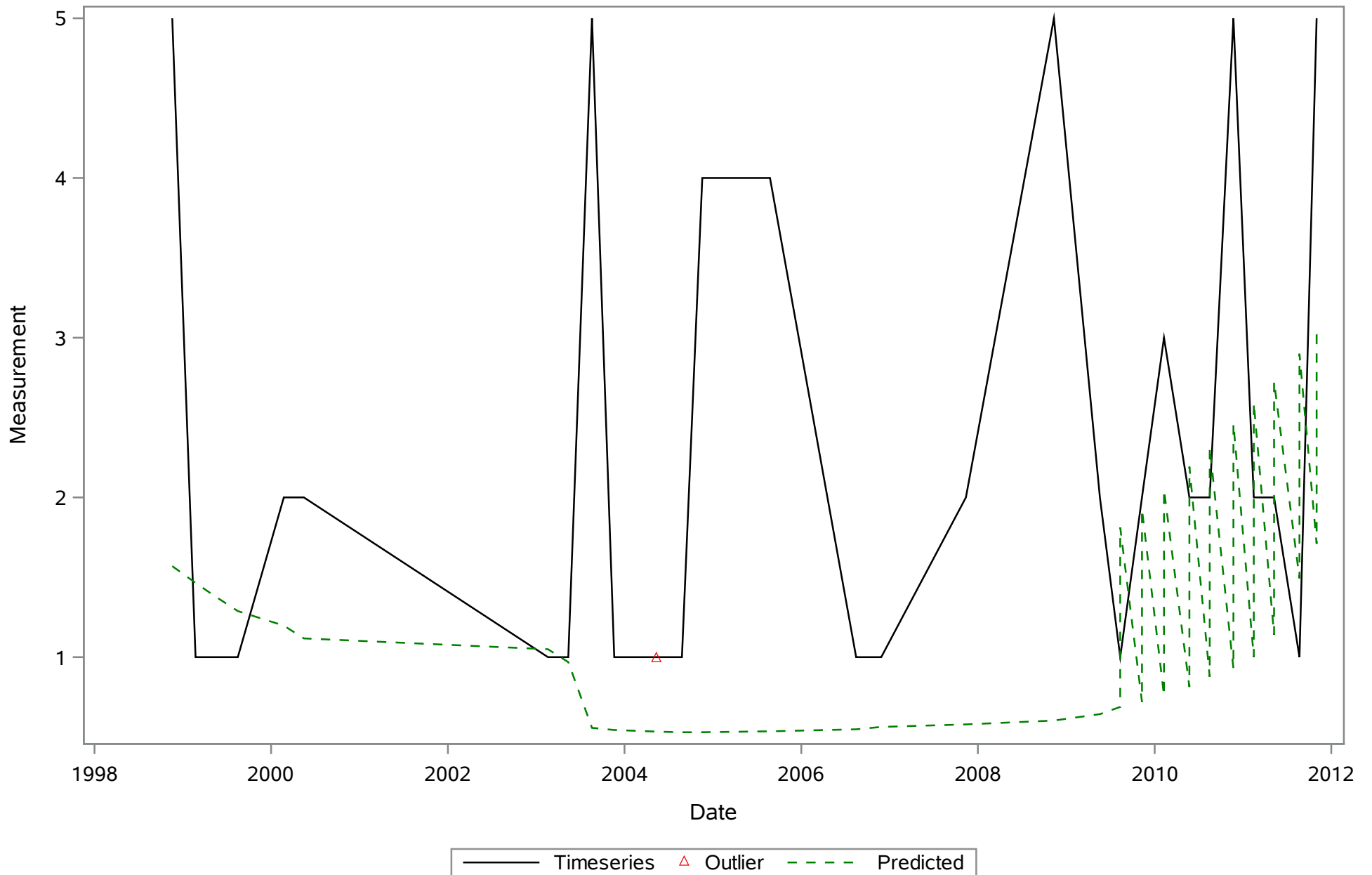
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SAL_Perc



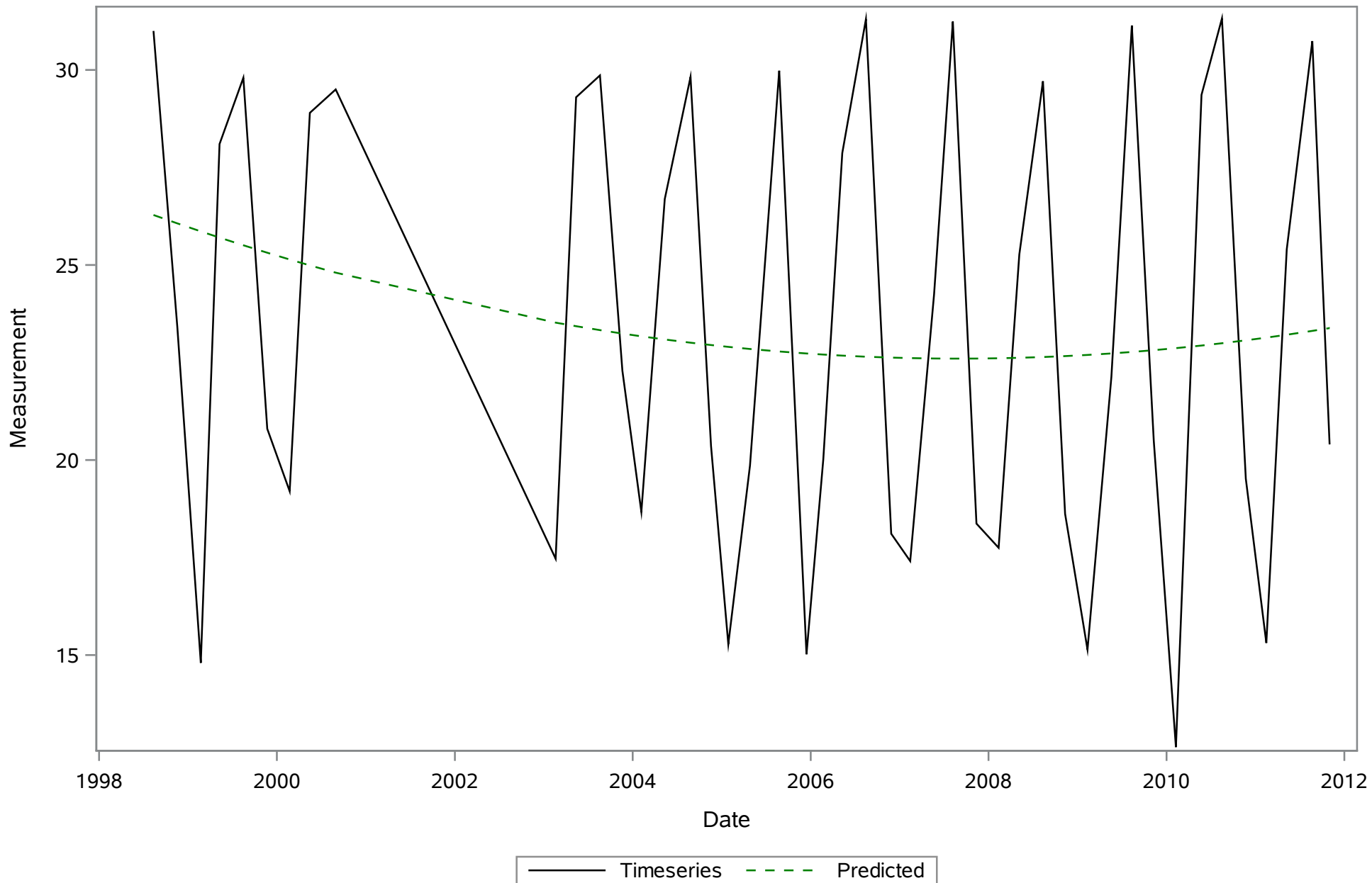
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SPCOND_mS_cm



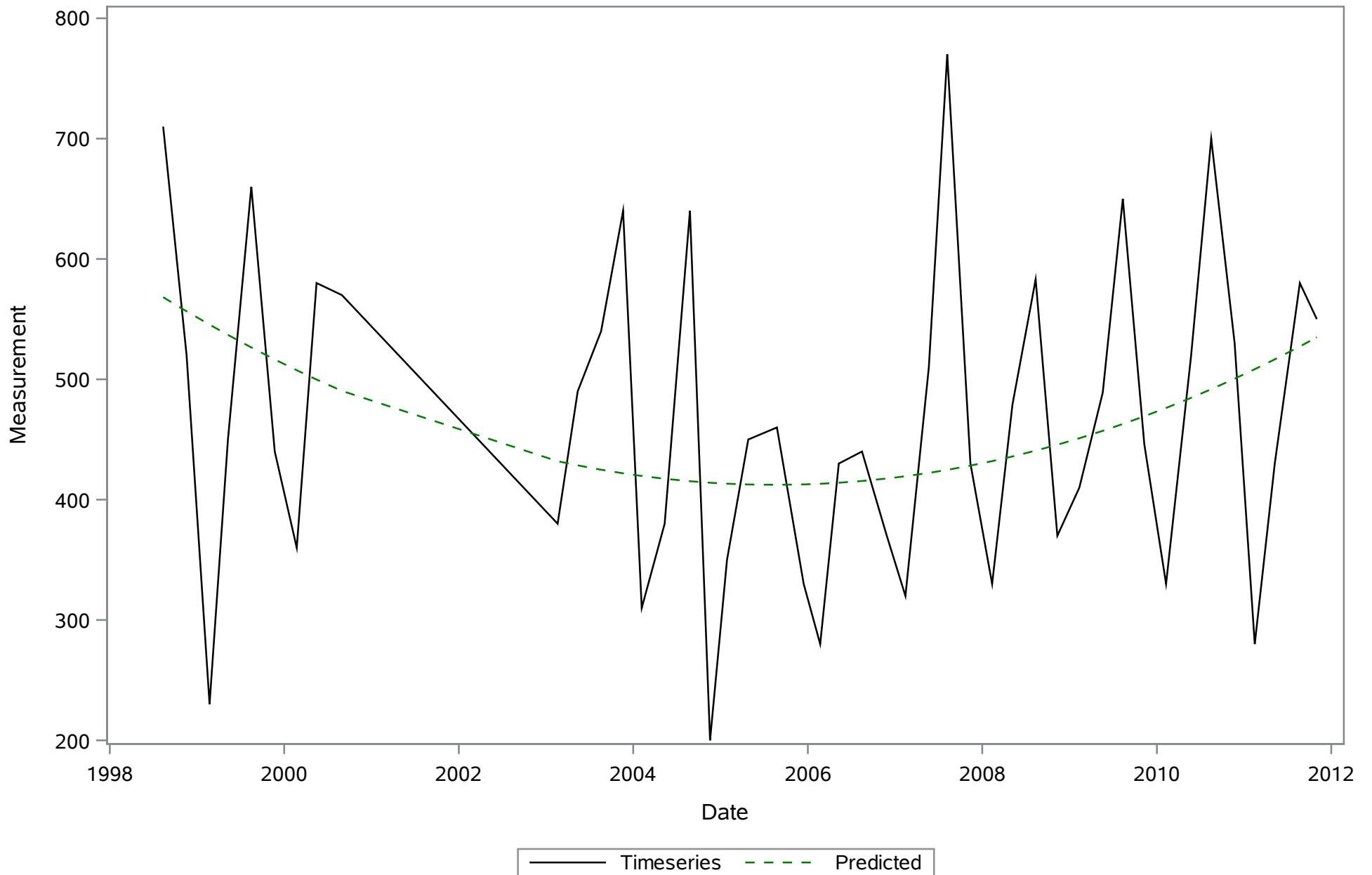
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SRP_ugL



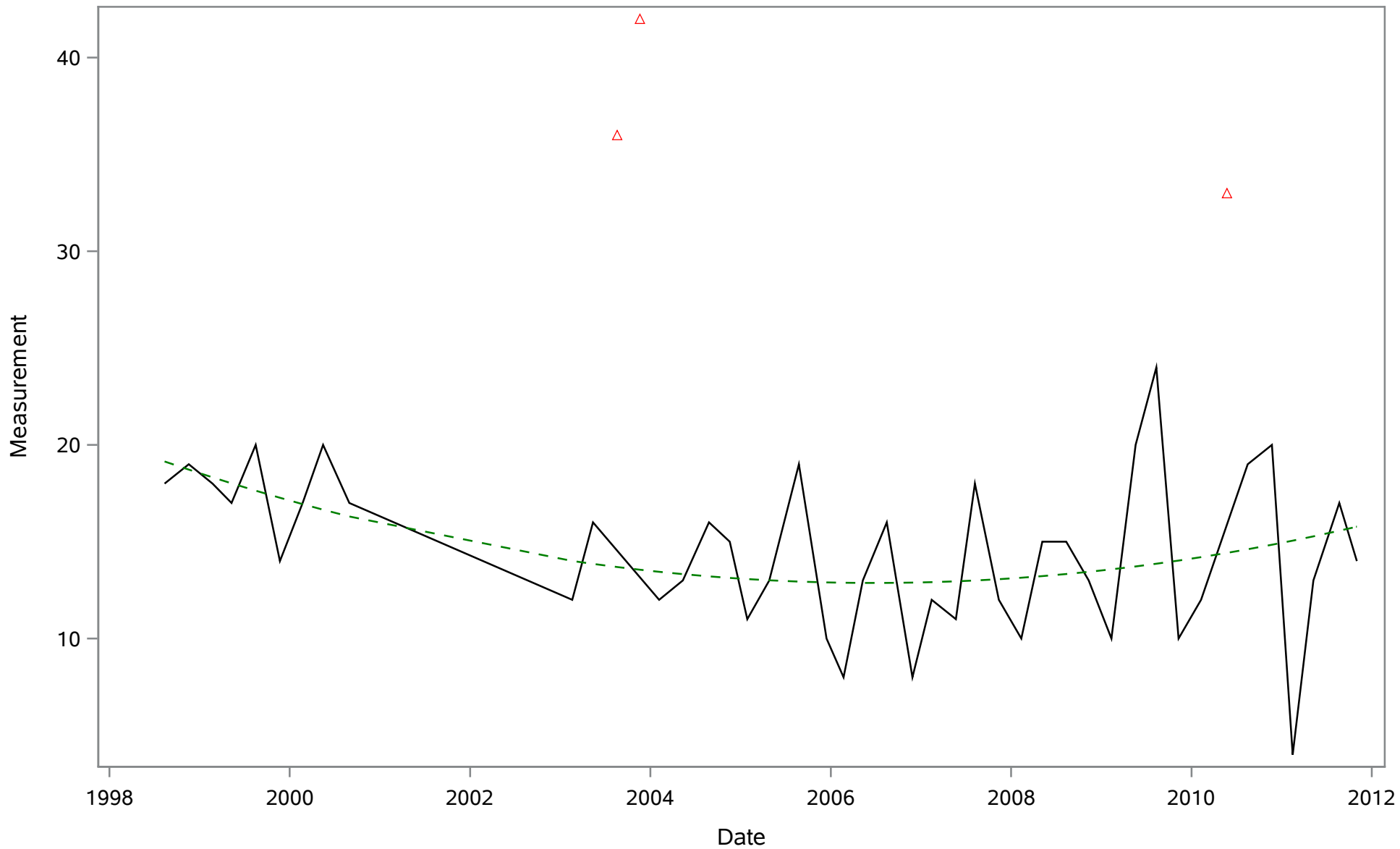
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TEMP_C



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TN_ugl

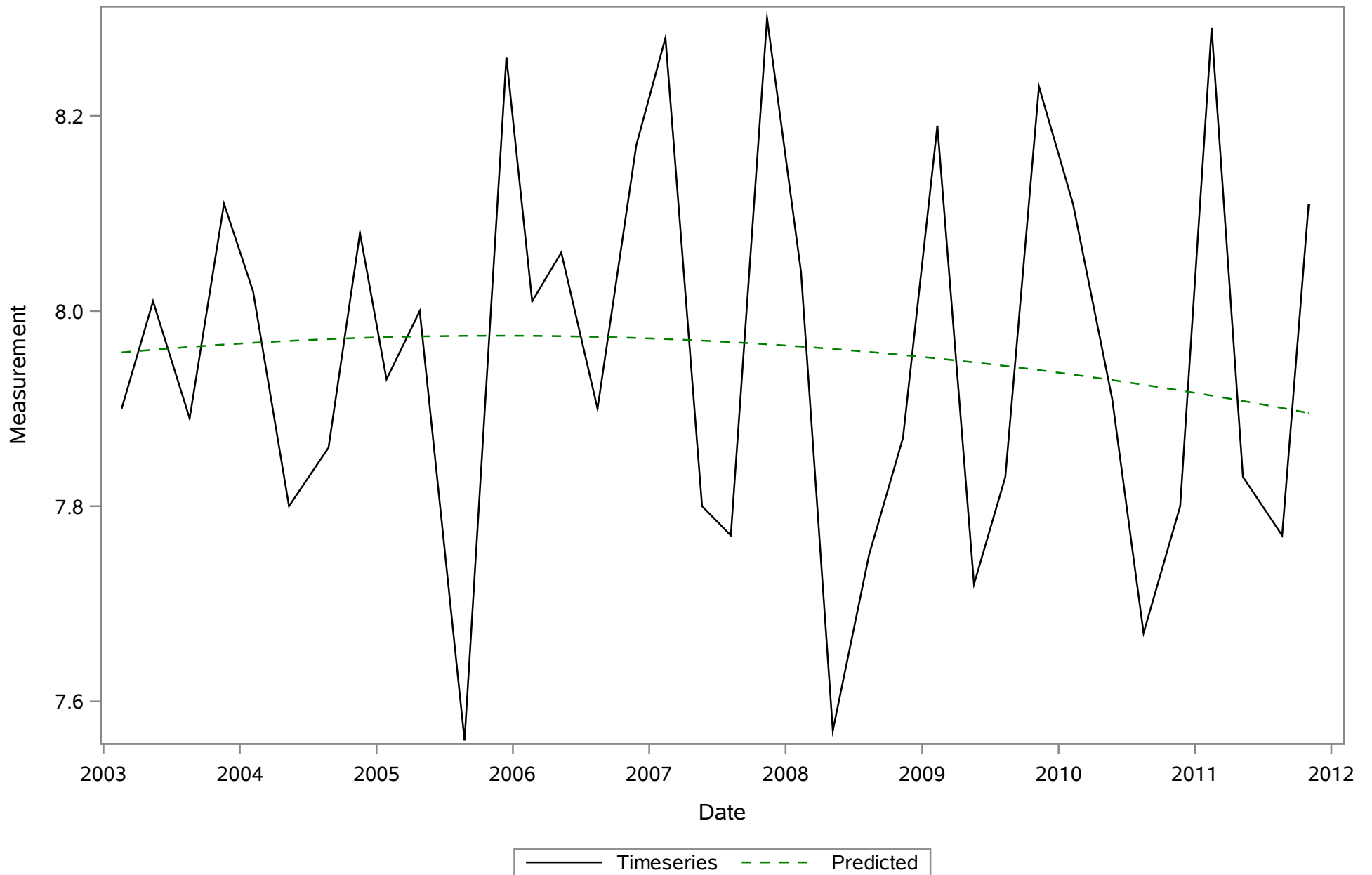


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TP_ugl

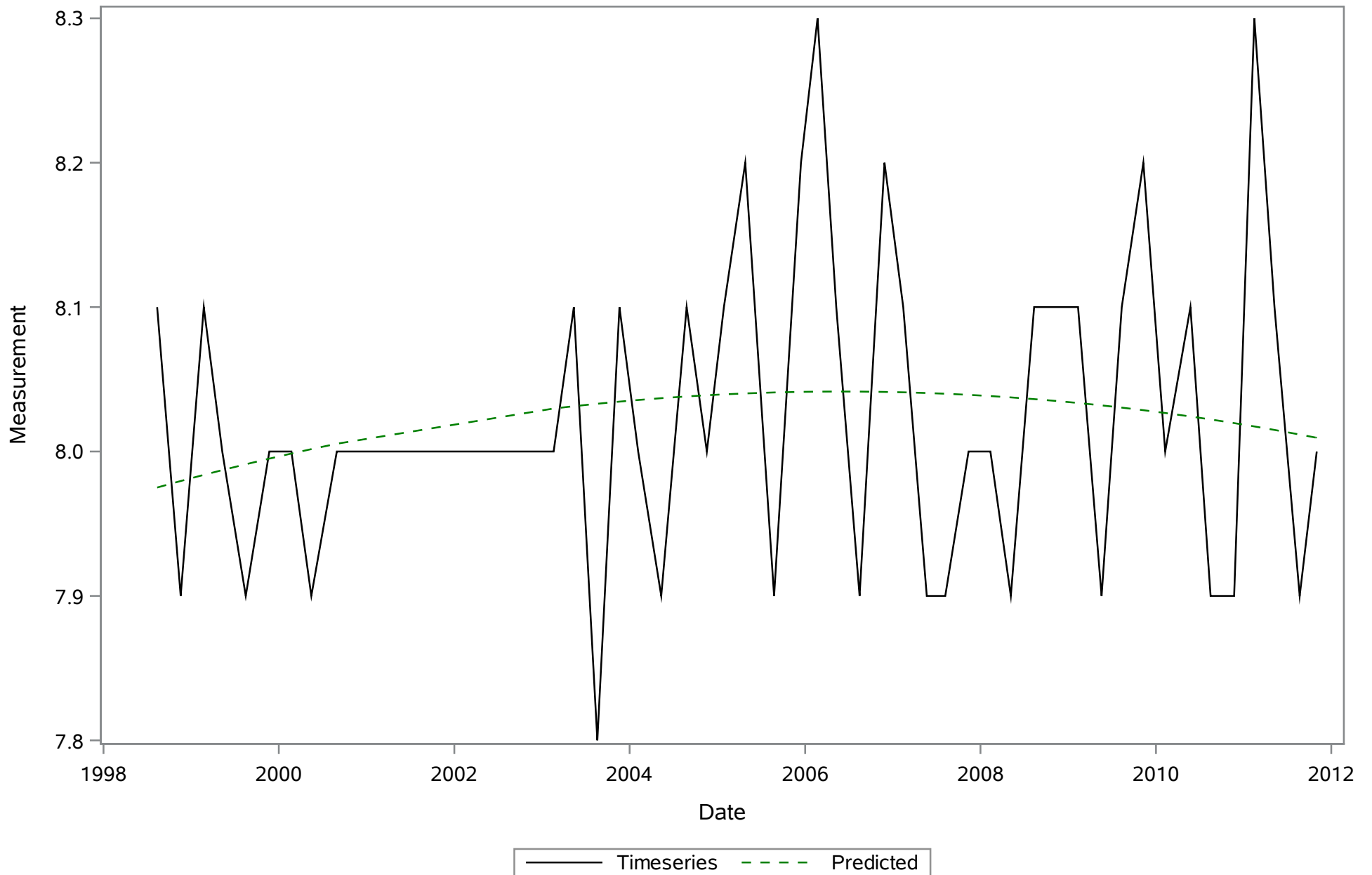


— Timeseries △ Outlier - - - Predicted

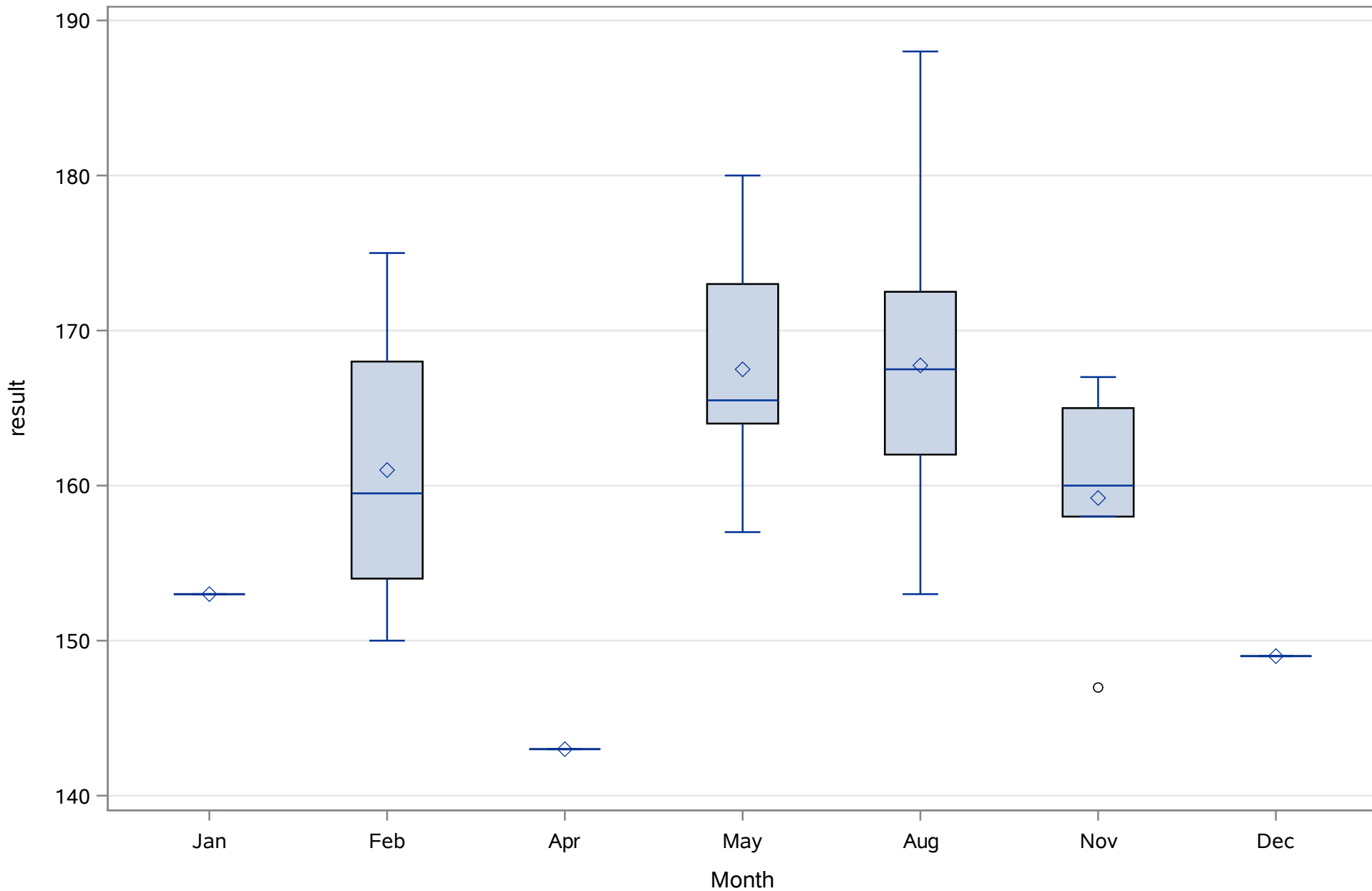
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Field



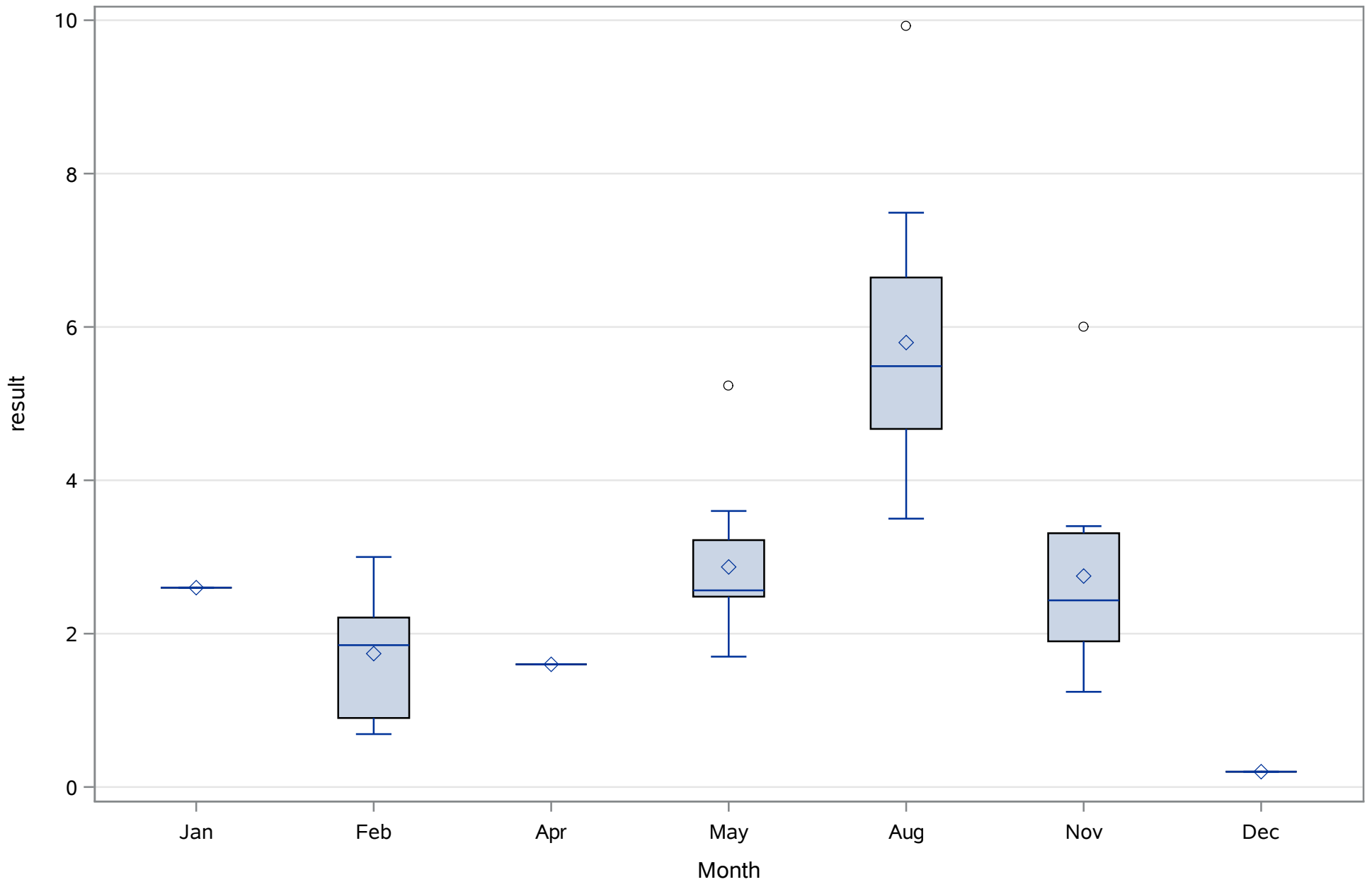
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Lab



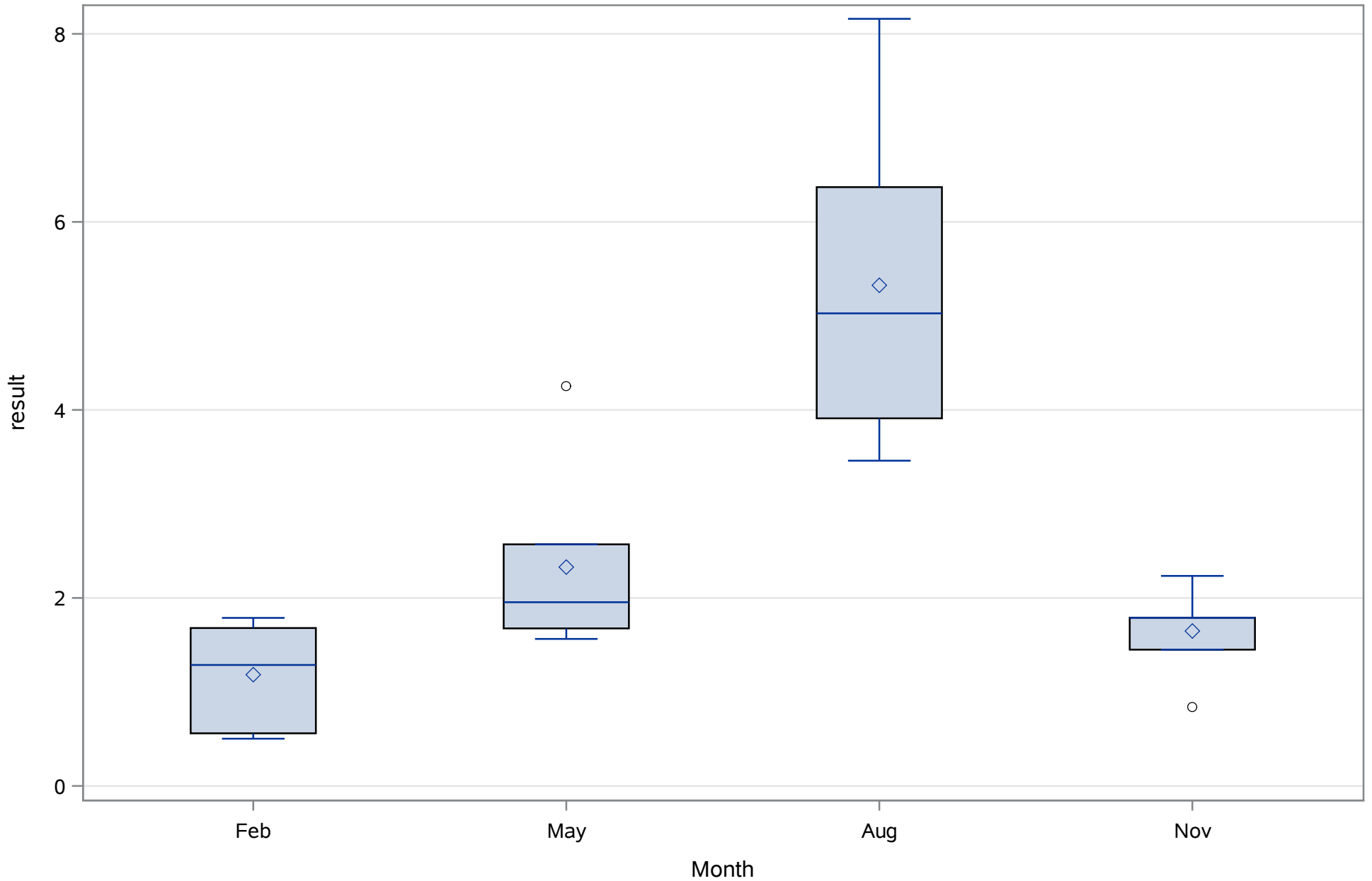
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
ALK_tot_mgL



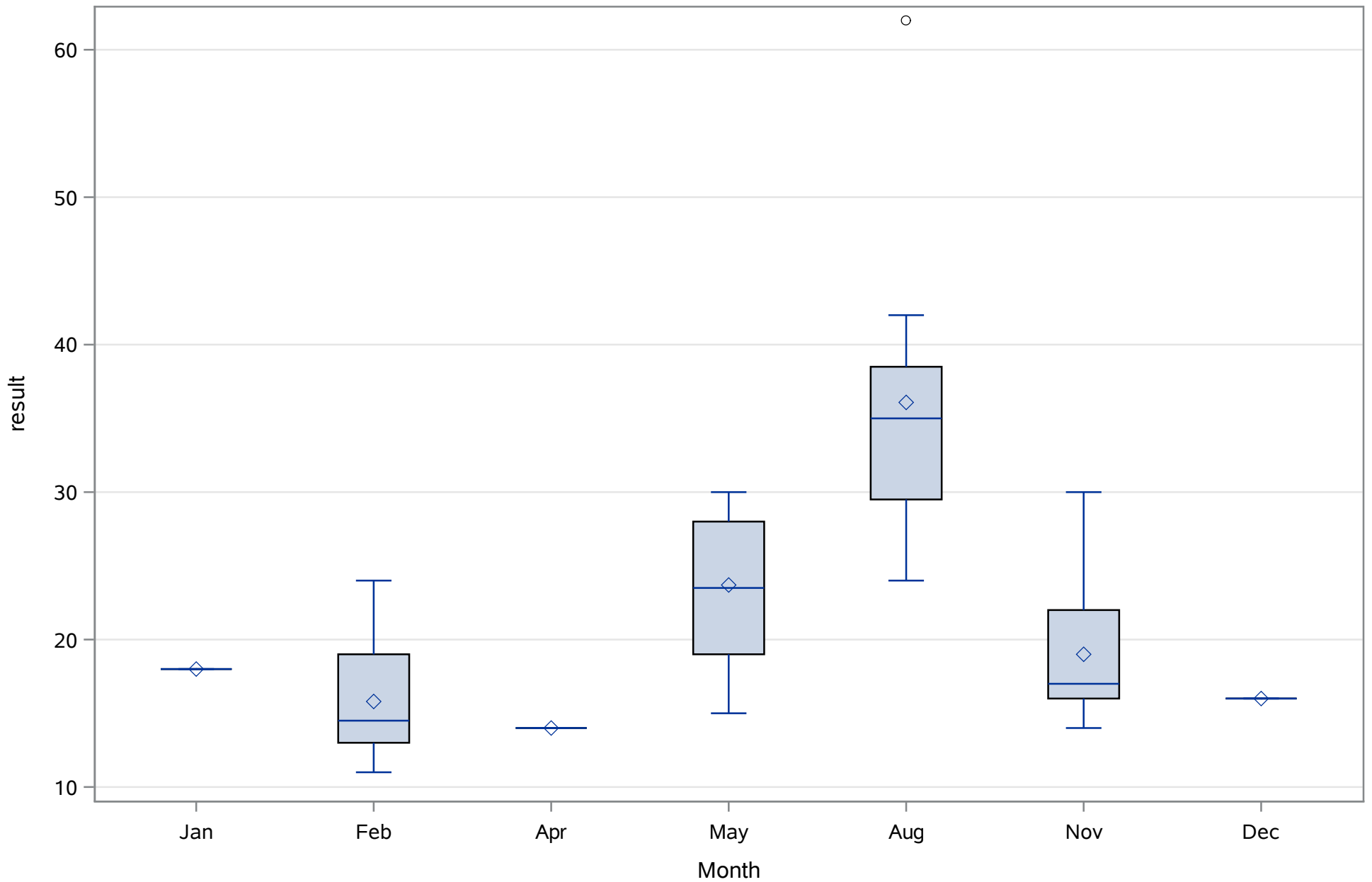
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_Uncor_ugL



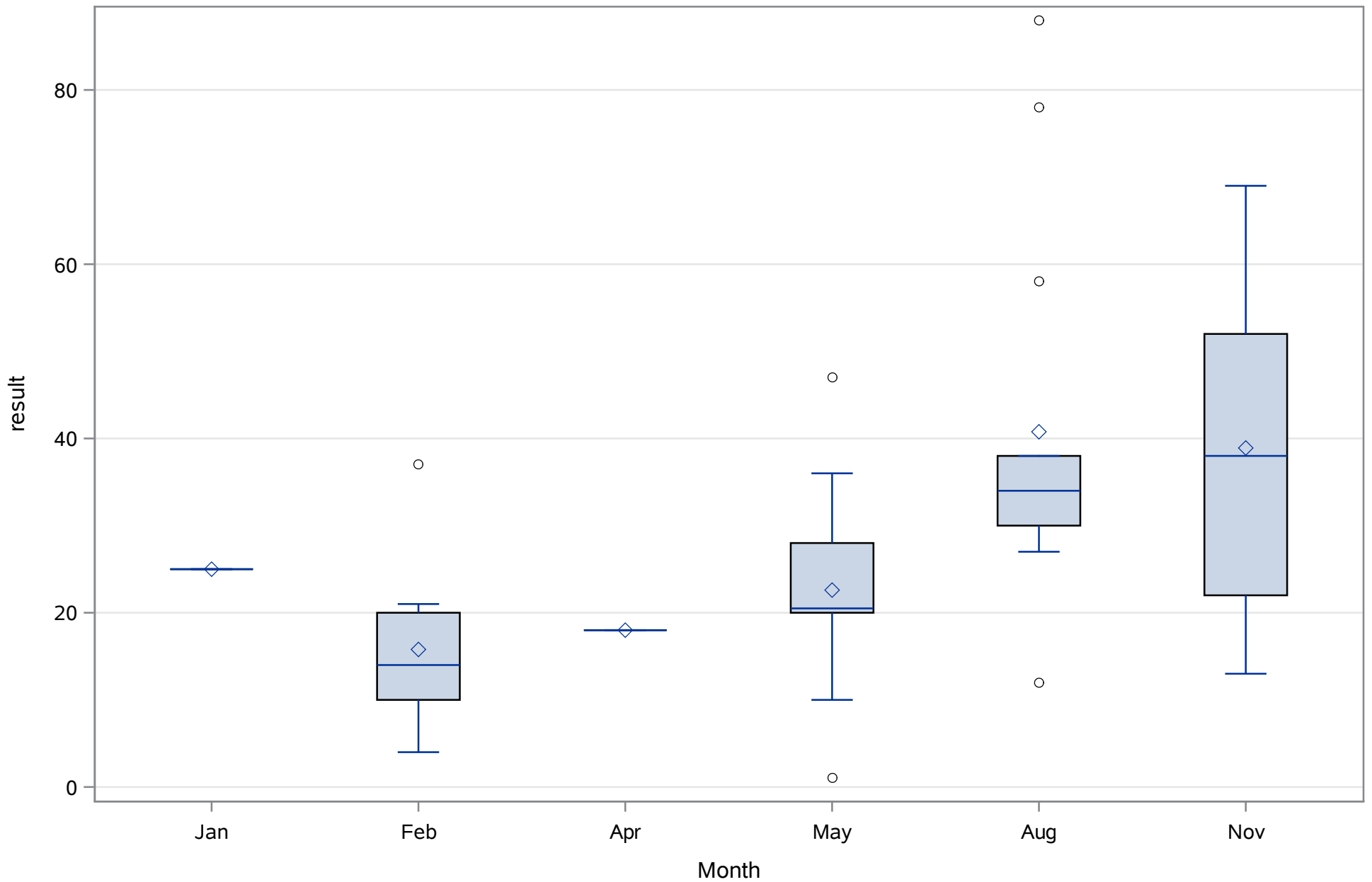
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
CHLA_cor_uvl



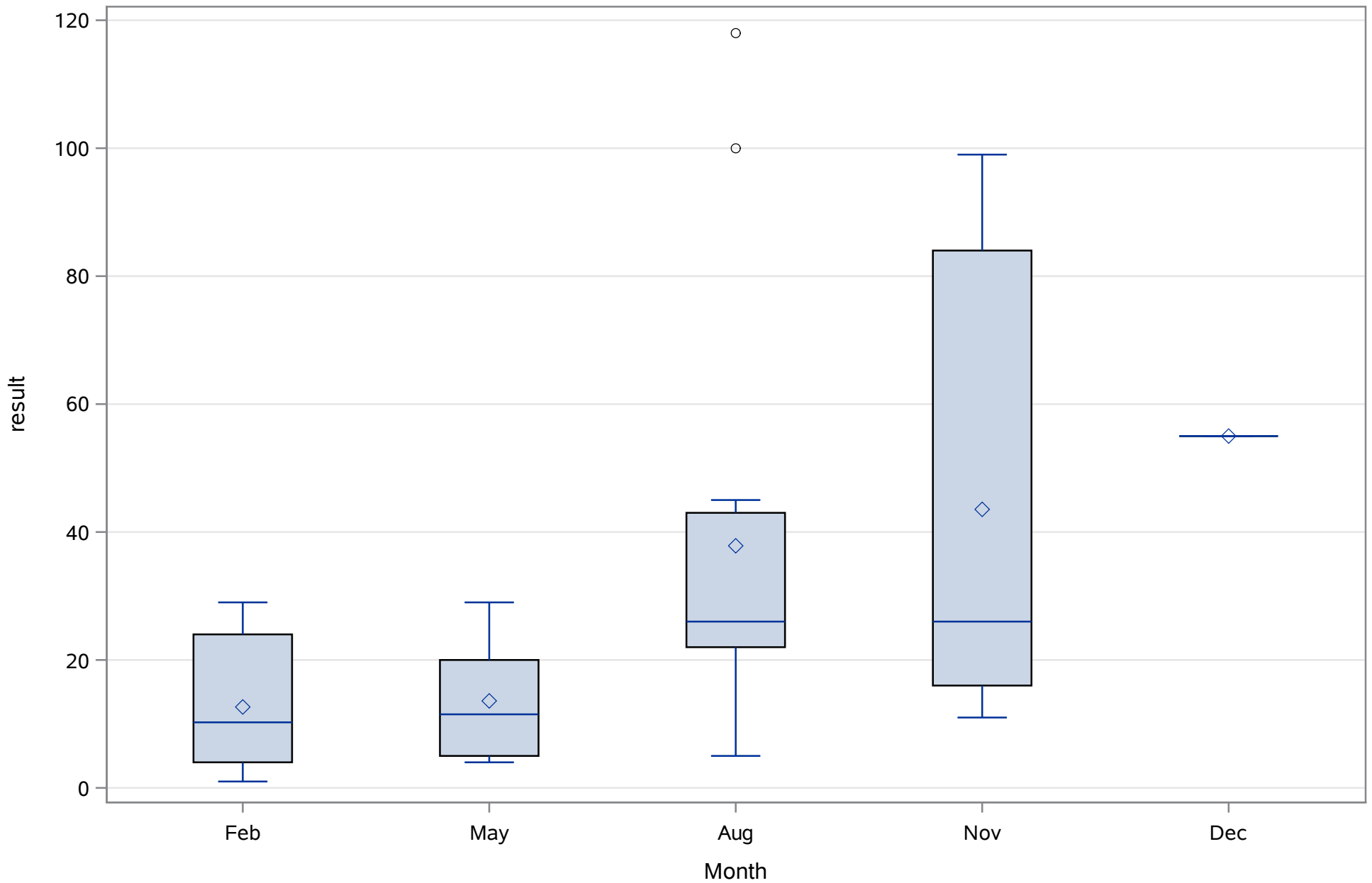
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
COLOR_PtCo



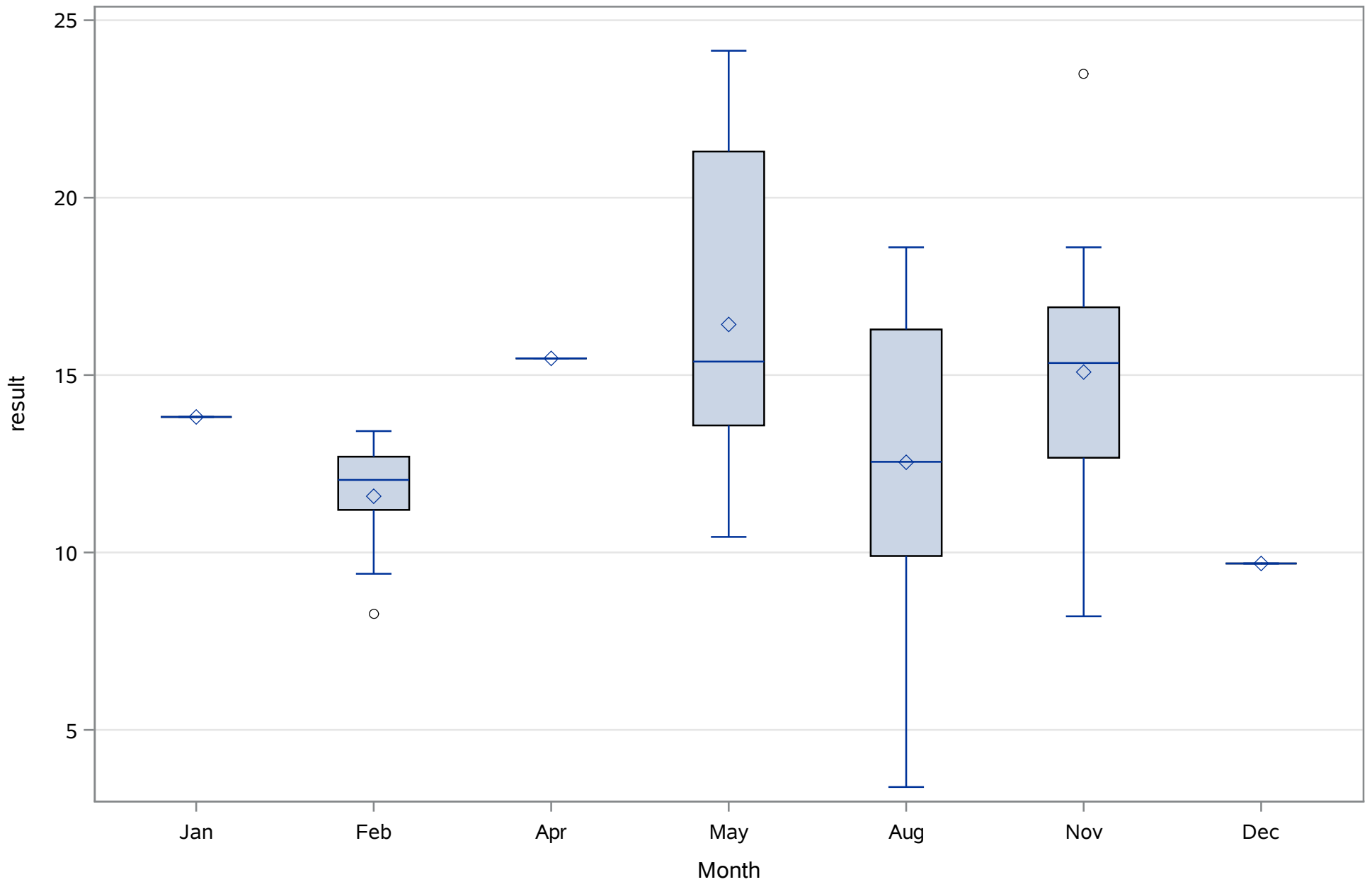
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NH4_ugl



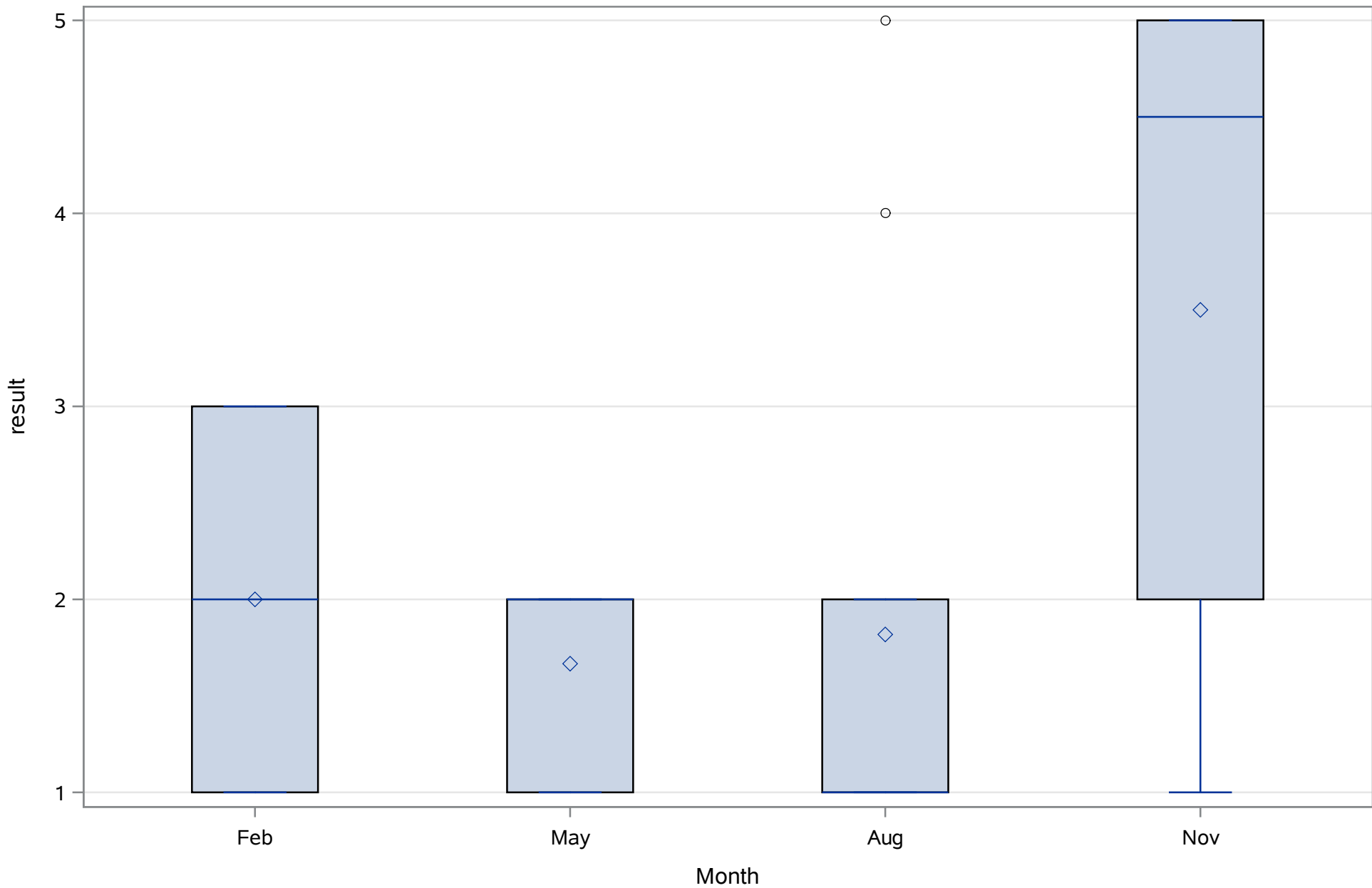
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
NO3_ugL



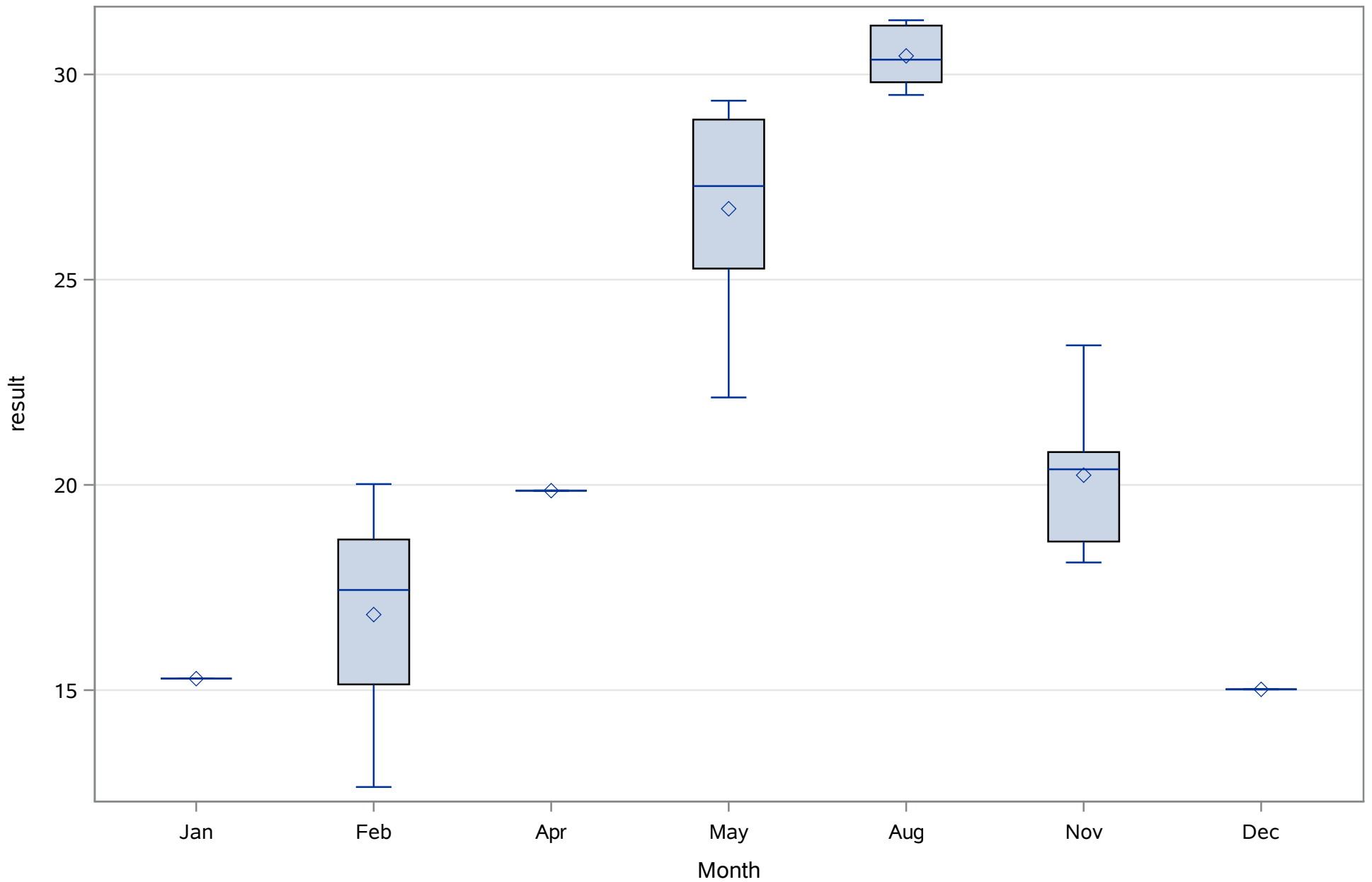
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SAL_Perc



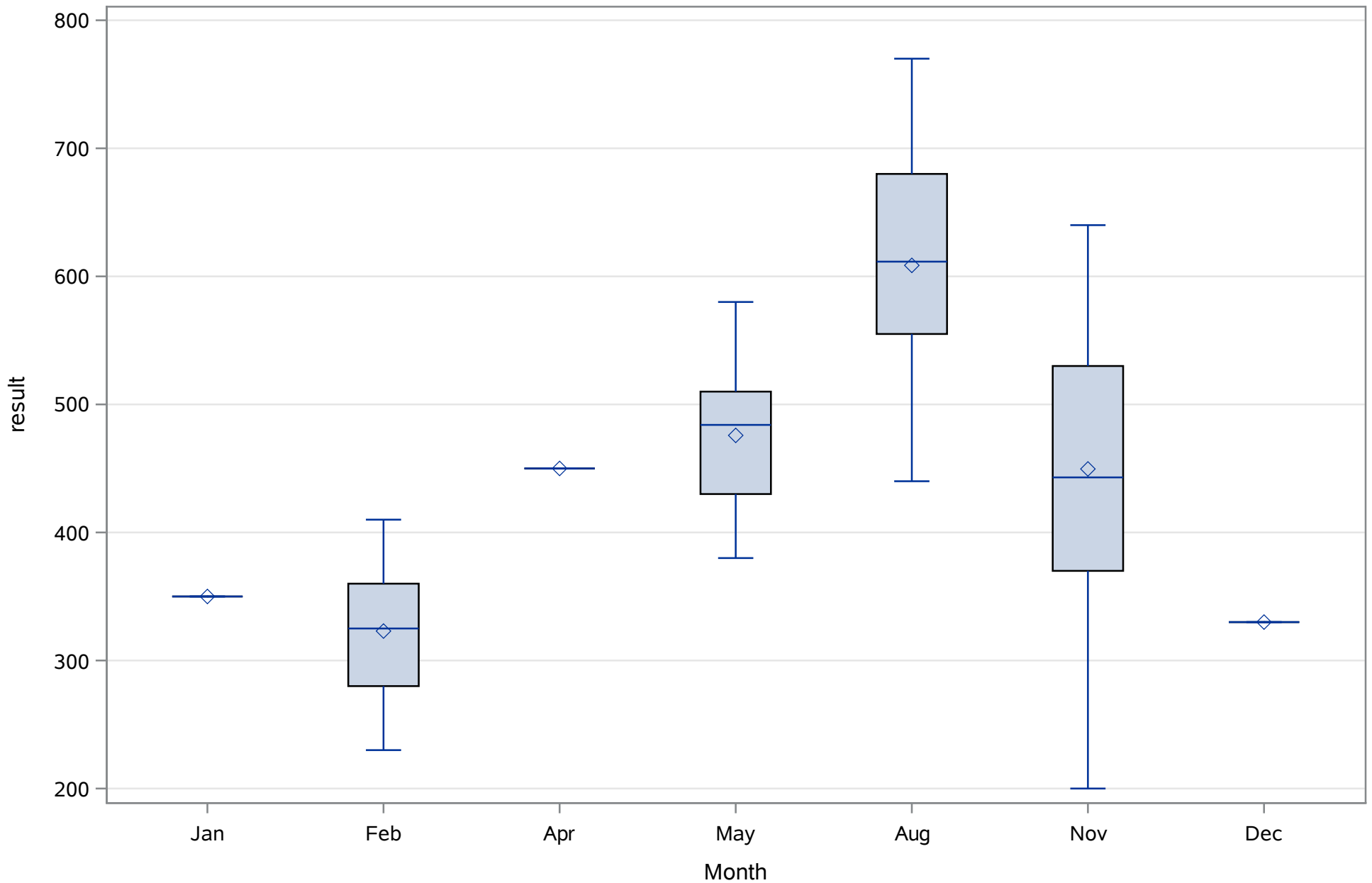
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
SRP_ugL



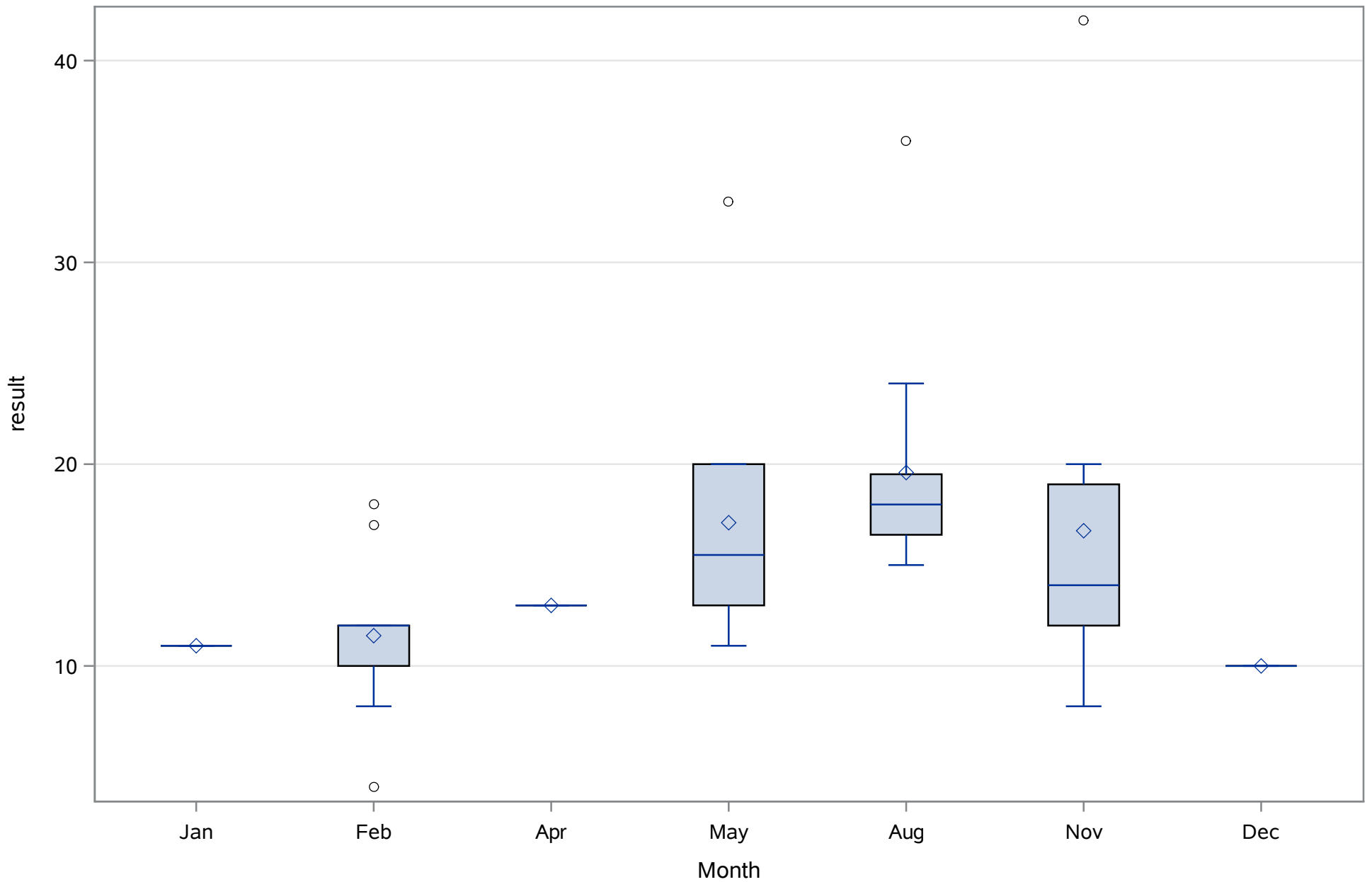
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TEMP_C



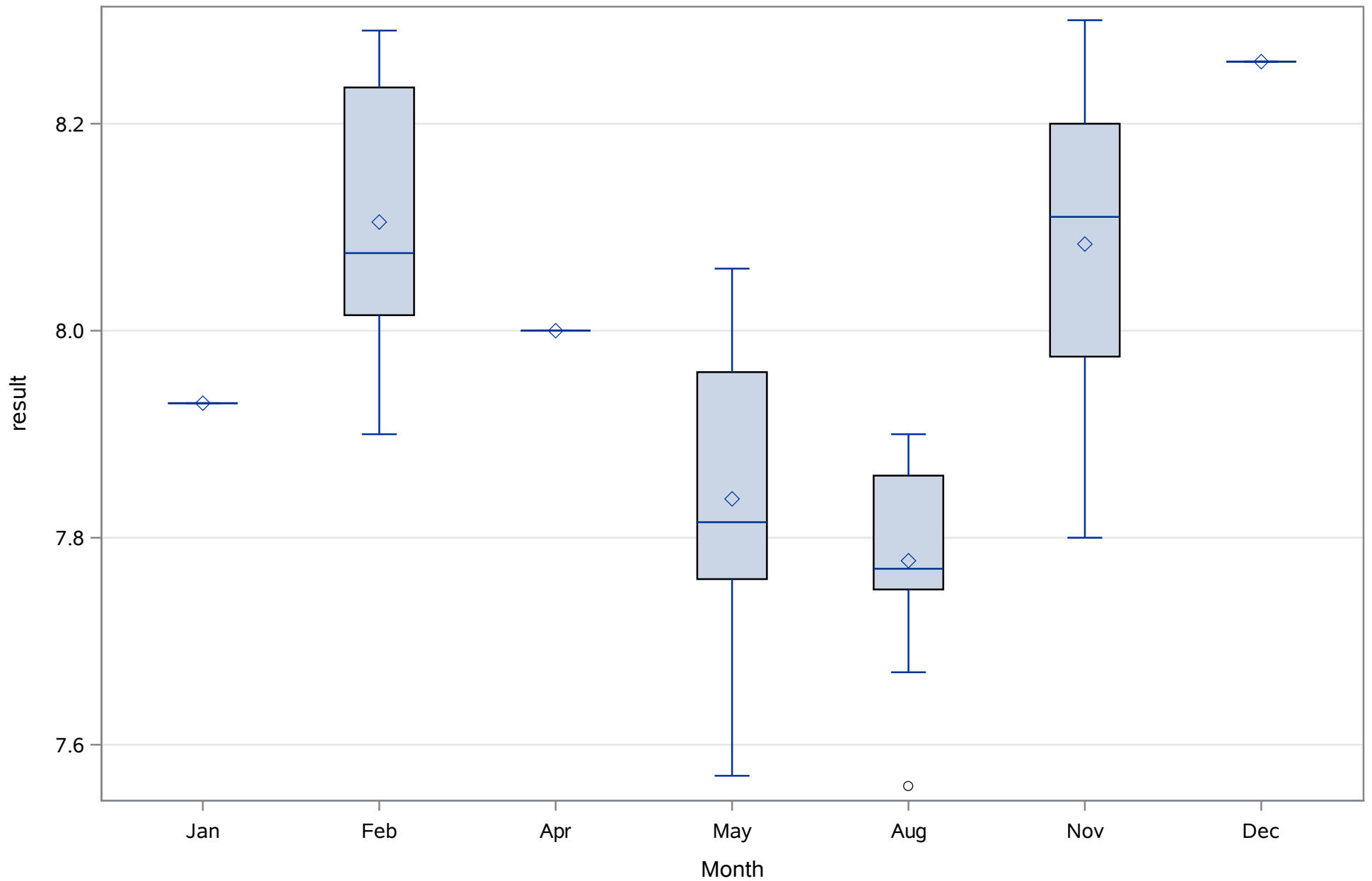
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TN_ugl



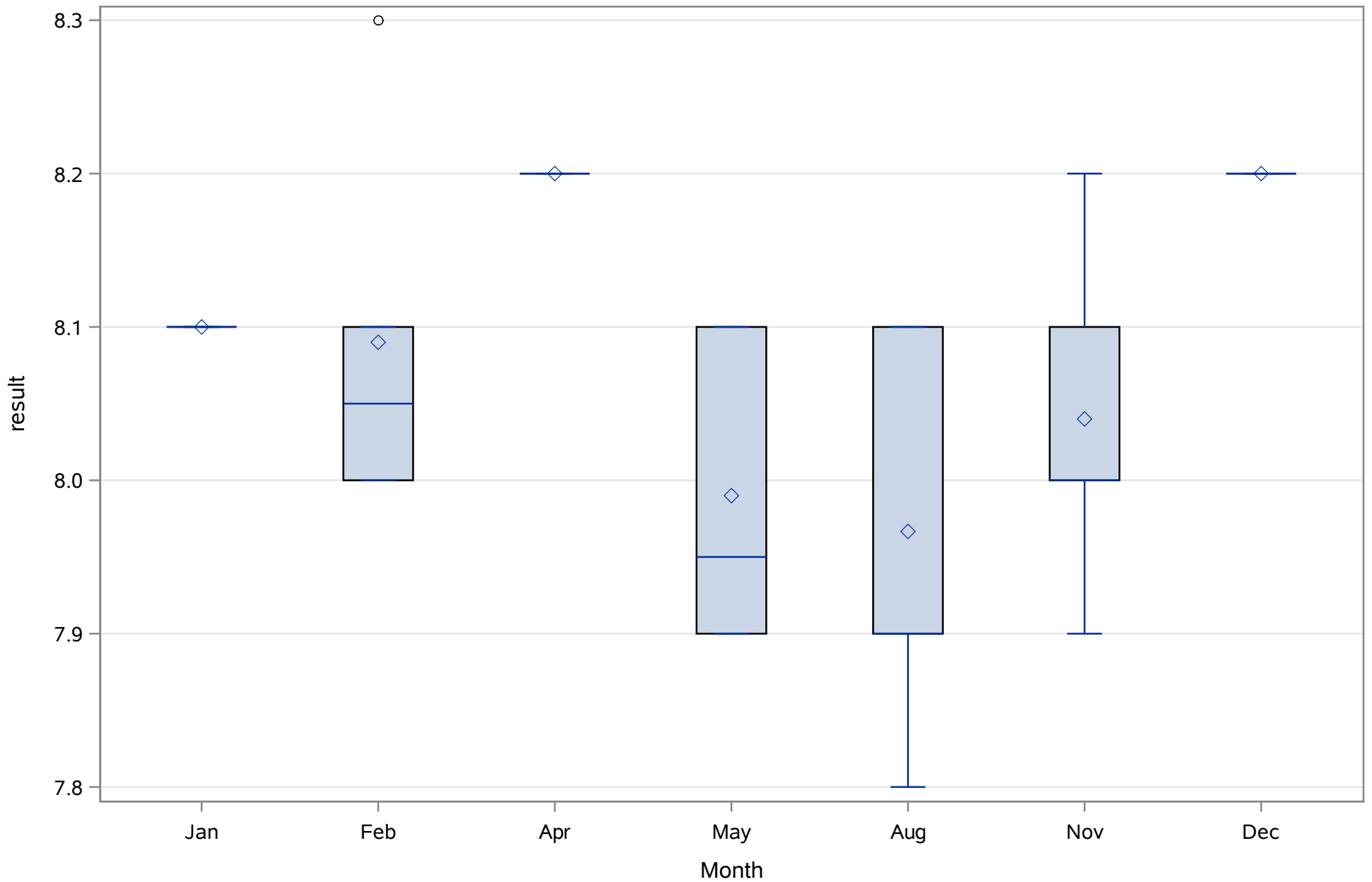
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 18
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	24	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
NO3_ugL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	36	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	36	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	45	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	160.066667	Sum Observations	7203
Std Deviation	9.80120586	Variance	96.0636364
Skewness	0.10740091	Kurtosis	0.0905831
Uncorrected SS	1157187	Corrected SS	4226.8
Coeff Variation	6.12320233	Std Error Mean	1.4610775

Basic Statistical Measures			
Location		Variability	
Mean	160.0667	Std Deviation	9.80121
Median	161.0000	Variance	96.06364
Mode	162.0000	Range	46.00000
		Interquartile Range	14.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	109.5539	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	186
99%	186
95%	176
90%	172
75% Q3	167
50% Median	161
25% Q1	153
10%	146
5%	144
1%	140
0% Min	140

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
ALK_tot_mgL

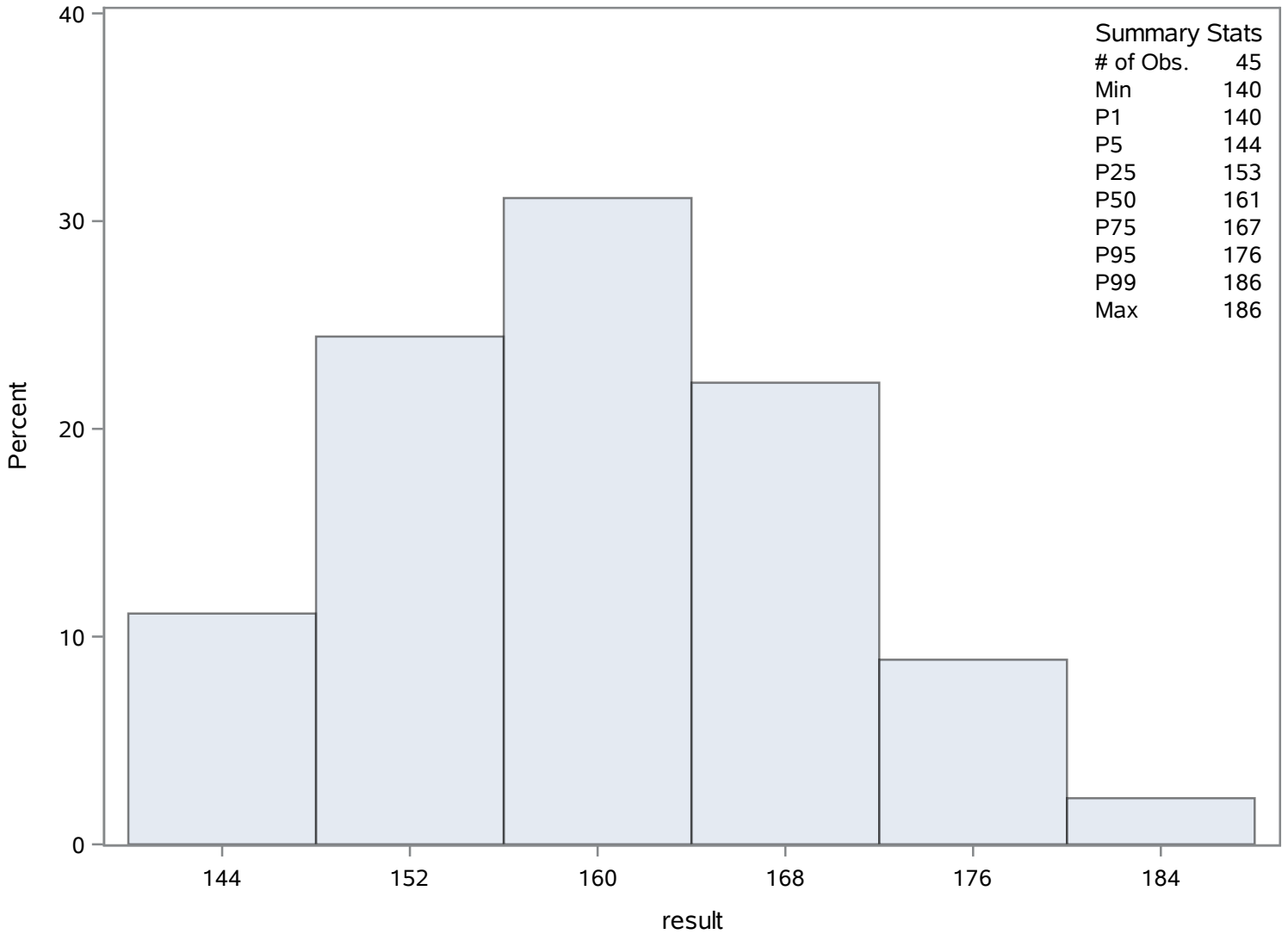
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
140	14	172	20
141	19	172	39
144	6	176	11
146	21	177	35
146	13	186	36

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	2.81986207	Sum Observations	126.893793
Std Deviation	2.25166789	Variance	5.07000829
Skewness	1.62273475	Kurtosis	2.19699437
Uncorrected SS	580.903359	Corrected SS	223.080365
Coeff Variation	79.8502847	Std Error Mean	0.33565883

Basic Statistical Measures			
Location		Variability	
Mean	2.819862	Std Deviation	2.25167
Median	2.160000	Variance	5.07001
Mode	1.100000	Range	10.01000
		Interquartile Range	1.70000

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	8.400977	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.11000
99%	10.11000
95%	7.54000
90%	6.25287
75% Q3	3.26000
50% Median	2.16000
25% Q1	1.56000
10%	0.91954
5%	0.60000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

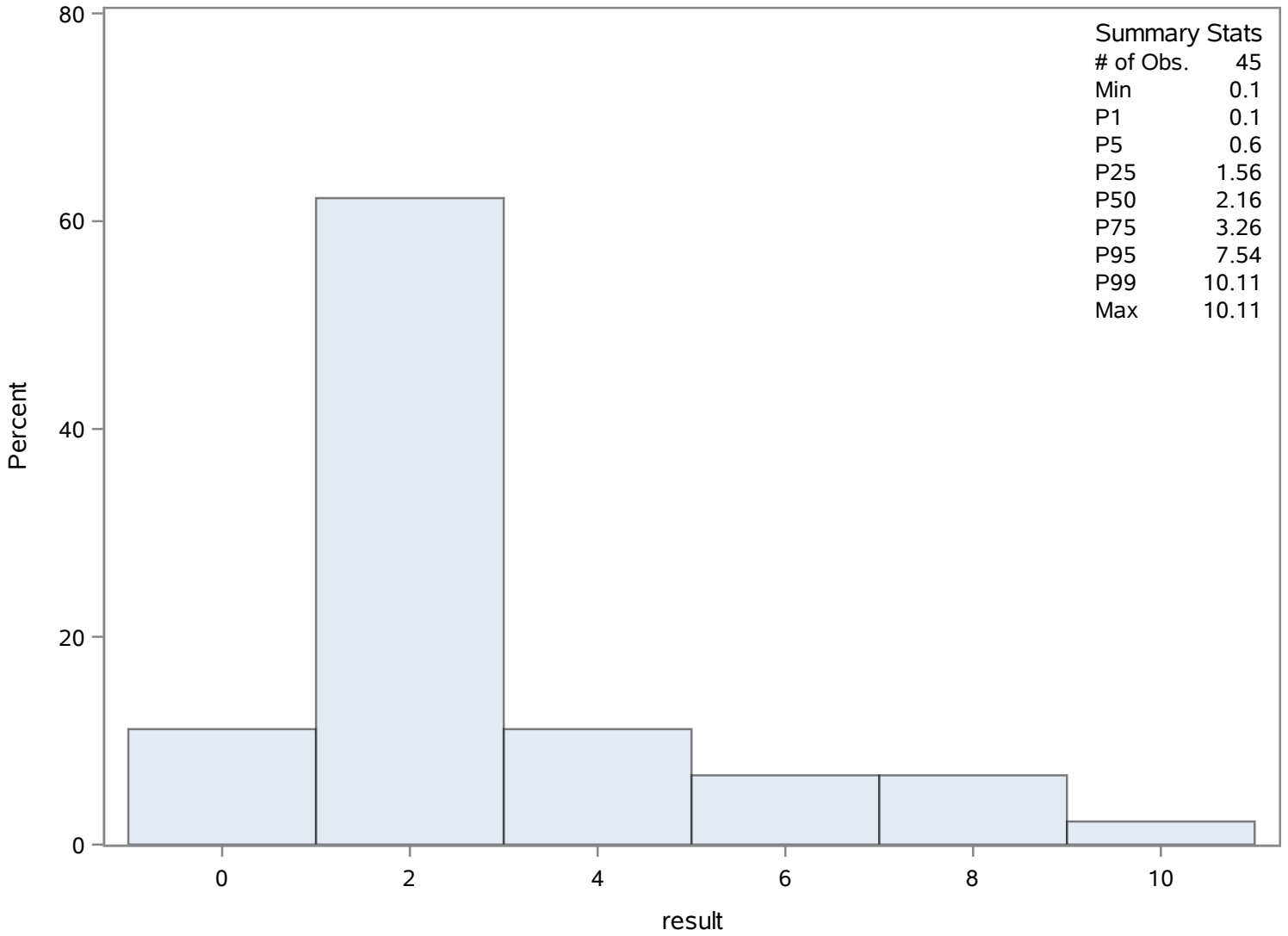
Quantiles (Definition 5)	
Level	Quantile
1%	0.10000
0% Min	0.10000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.100000	66	6.25287	69
0.510000	87	7.40000	57
0.600000	48	7.54000	89
0.643678	67	8.50000	58
0.919540	70	10.11000	85

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	2.19942433	Sum Observations	52.786184
Std Deviation	1.99749403	Variance	3.9899824
Skewness	2.04591232	Kurtosis	4.26373957
Uncorrected SS	207.868813	Corrected SS	91.7695953
Coeff Variation	90.8189475	Std Error Mean	0.40773676

Basic Statistical Measures			
Location		Variability	
Mean	2.199424	Std Deviation	1.99749
Median	1.451206	Variance	3.98998
Mode	1.340688	Range	8.32000
		Interquartile Range	1.28500

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	5.394226	Pr > t 	<.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.710000
99%	8.710000
95%	6.140000
90%	5.027580
75% Q3	2.460000
50% Median	1.451206
25% Q1	1.175000
10%	0.558620
5%	0.446896
1%	0.390000
0% Min	0.390000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_cor_ugl

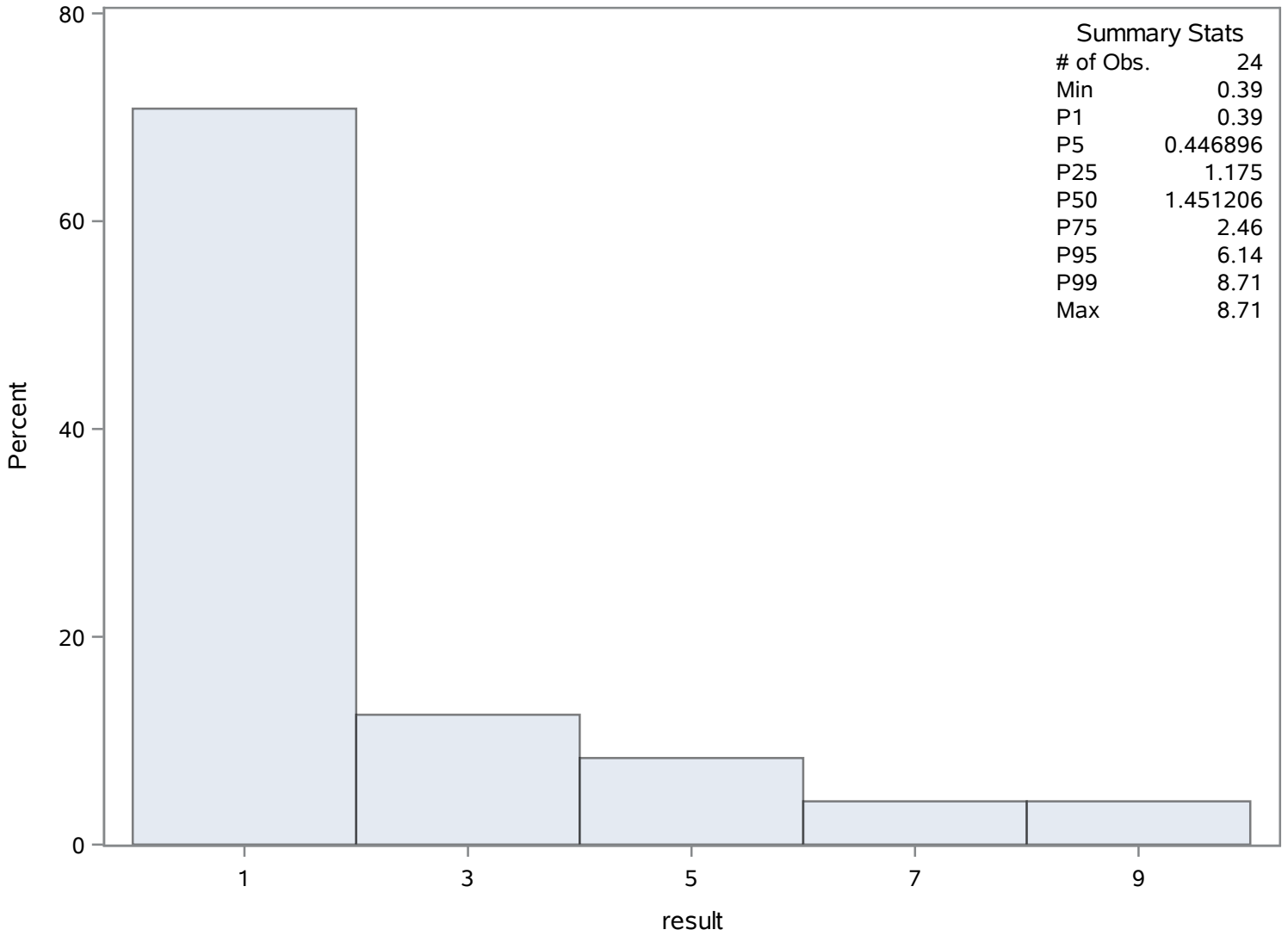
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.390000	111	2.79310	101
0.446896	91	4.47000	105
0.558620	102	5.02758	93
0.670344	94	6.14000	113
0.780000	103	8.71000	109

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	22.0666667	Sum Observations	993
Std Deviation	9.38422274	Variance	88.0636364
Skewness	1.76141732	Kurtosis	4.76301177
Uncorrected SS	25787	Corrected SS	3874.8
Coeff Variation	42.5266891	Std Error Mean	1.39891733

Basic Statistical Measures			
Location		Variability	
Mean	22.06667	Std Deviation	9.38422
Median	20.00000	Variance	88.06364
Mode	16.00000	Range	48.00000
		Interquartile Range	11.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	15.7741	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	60
99%	60
95%	38
90%	34
75% Q3	26
50% Median	20
25% Q1	15
10%	13
5%	12
1%	12
0% Min	12

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
COLOR_PtCo

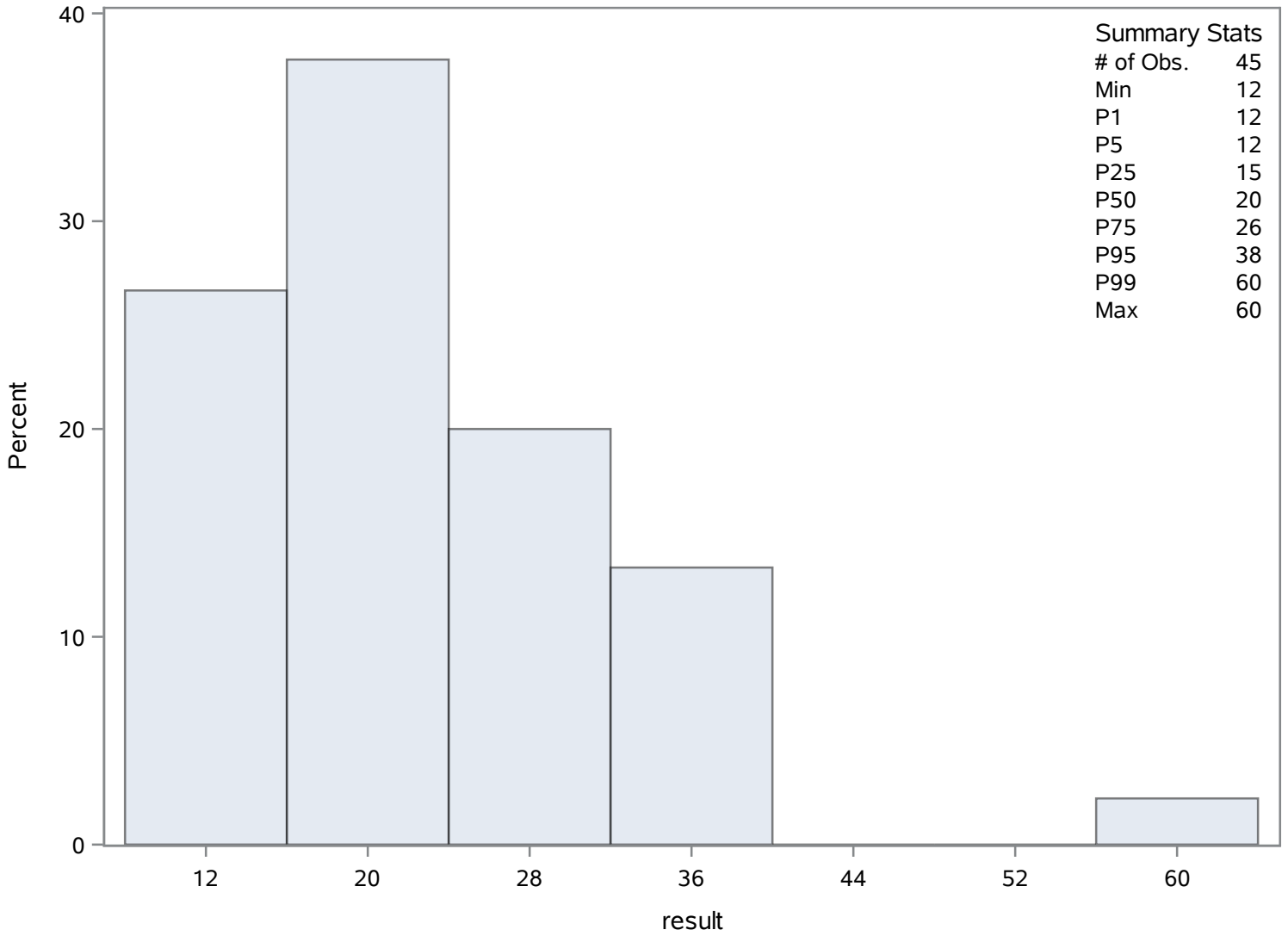
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12	156	34	158
12	148	35	134
12	140	38	115
12	128	39	154
13	121	60	126

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	6.83422222	Sum Observations	307.54
Std Deviation	1.76686097	Variance	3.12179768
Skewness	0.12534295	Kurtosis	-1.0226655
Uncorrected SS	2239.1558	Corrected SS	137.359098
Coeff Variation	25.8531389	Std Error Mean	0.26338808

Basic Statistical Measures			
Location		Variability	
Mean	6.834222	Std Deviation	1.76686
Median	6.780000	Variance	3.12180
Mode	8.610000	Range	6.30000
		Interquartile Range	2.99000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	25.94735	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.00
99%	10.00
95%	9.77
90%	9.30
75% Q3	8.45
50% Median	6.78
25% Q1	5.46
10%	4.79
5%	4.02
1%	3.70
0% Min	3.70

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
DO_mgL

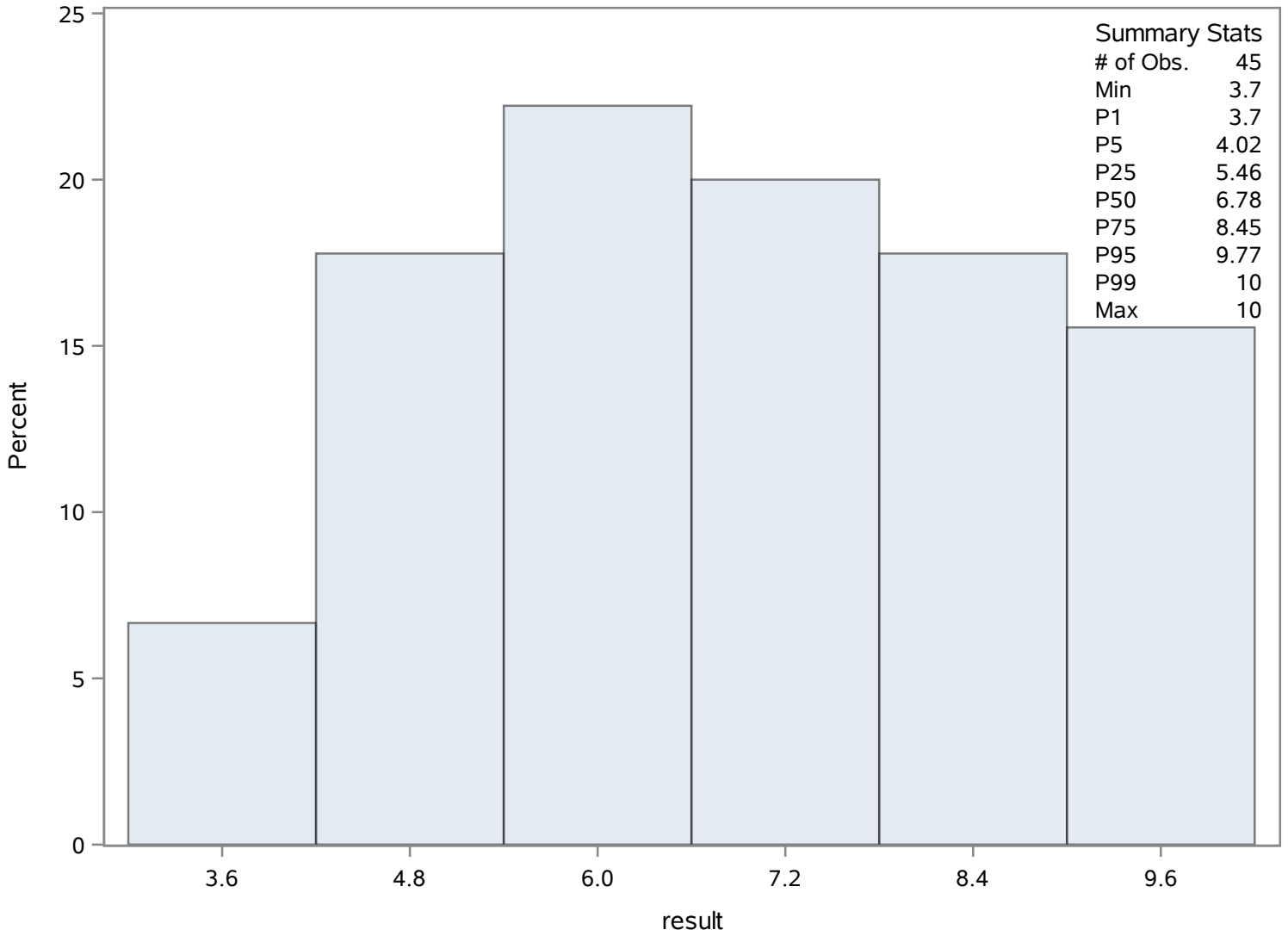
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.70	164	9.30	162
3.90	167	9.36	181
4.02	203	9.77	201
4.20	168	9.91	177
4.79	195	10.00	180

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	31.8711111	Sum Observations	1434.2
Std Deviation	22.8722204	Variance	523.138465
Skewness	1.28306951	Kurtosis	1.11282634
Uncorrected SS	68727.64	Corrected SS	23018.0924
Coeff Variation	71.7647411	Std Error Mean	3.4095893

Basic Statistical Measures			
Location		Variability	
Mean	31.87111	Std Deviation	22.87222
Median	23.00000	Variance	523.13846
Mode	19.00000	Range	91.80000
		Interquartile Range	26.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.347493	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	96.0
99%	96.0
95%	79.0
90%	64.0
75% Q3	43.0
50% Median	23.0
25% Q1	17.0
10%	13.0
5%	6.0
1%	4.2
0% Min	4.2

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NH4_ugl

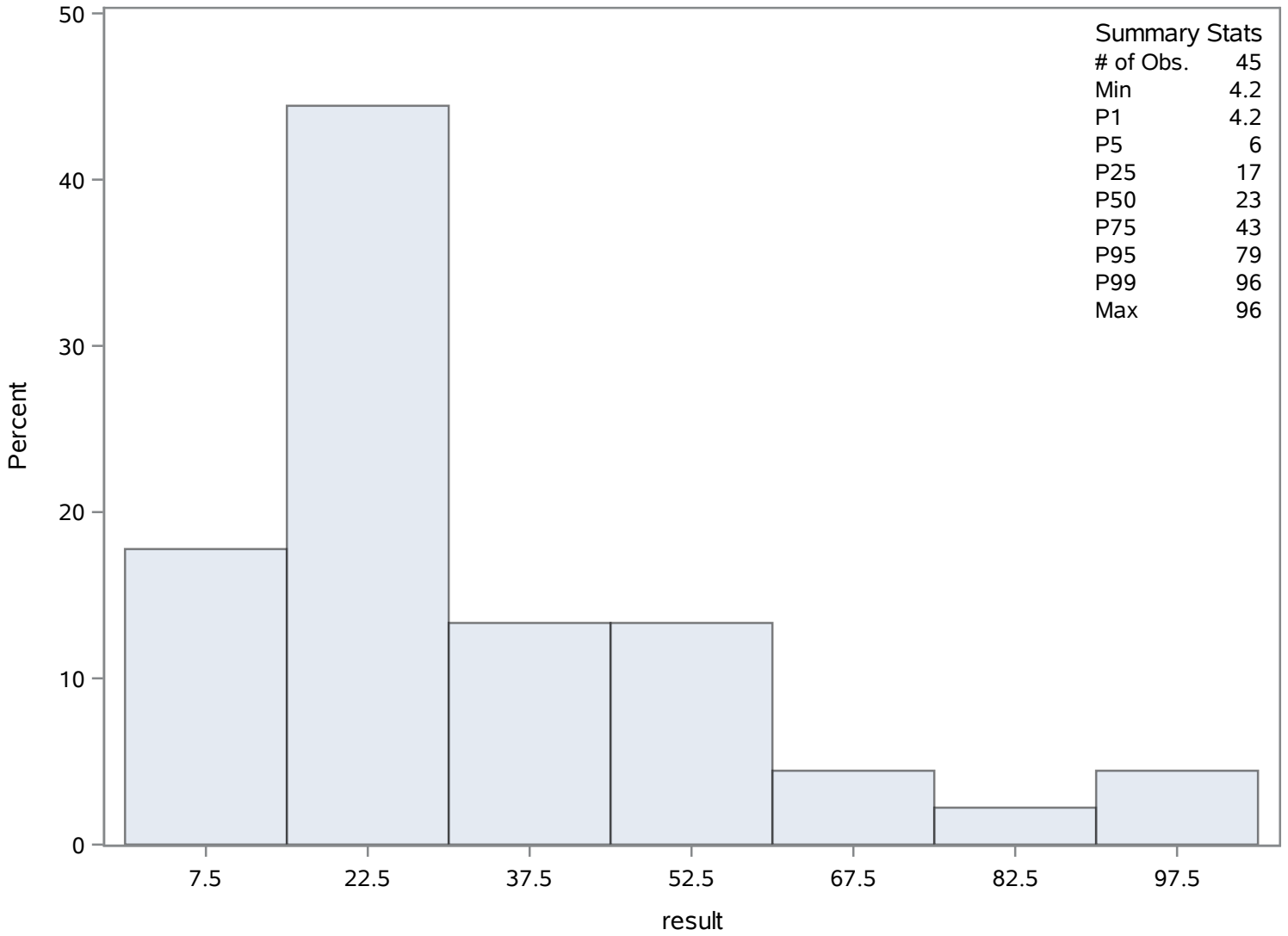
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.2	228	64	209
5.0	218	74	212
6.0	219	79	210
7.0	214	94	206
13.0	244	96	226

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	20.1888889	Sum Observations	908.5
Std Deviation	22.2141665	Variance	493.469192
Skewness	1.9362551	Kurtosis	3.78383389
Uncorrected SS	40054.25	Corrected SS	21712.6444
Coeff Variation	110.031645	Std Error Mean	3.31149242

Basic Statistical Measures			
Location		Variability	
Mean	20.18889	Std Deviation	22.21417
Median	12.00000	Variance	493.46919
Mode	3.00000	Range	100.00000
		Interquartile Range	19.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.096613	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	101
99%	101
95%	61
90%	60
75% Q3	25
50% Median	12
25% Q1	6
10%	3
5%	1
1%	1
0% Min	1

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NO3_ugL

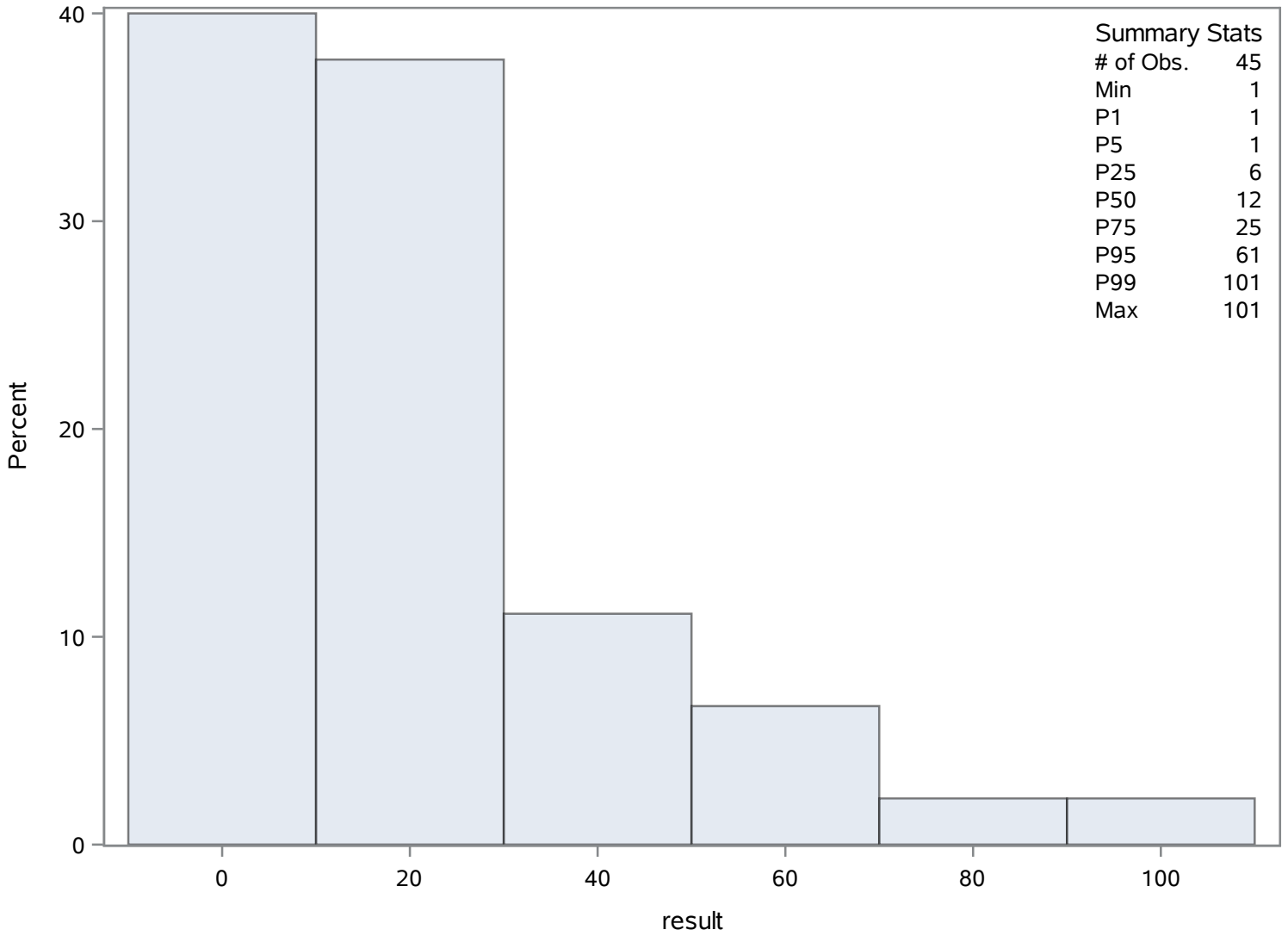
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	264	60	251
1	253	61	293
1	252	61	294
3	290	80	260
3	289	101	270

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	15.2306667	Sum Observations	685.38
Std Deviation	4.58550255	Variance	21.0268336
Skewness	0.28716128	Kurtosis	0.50757799
Uncorrected SS	11363.975	Corrected SS	925.18068
Coeff Variation	30.1070377	Std Error Mean	0.68356636

Basic Statistical Measures			
Location		Variability	
Mean	15.23067	Std Deviation	4.58550
Median	14.88000	Variance	21.02683
Mode	.	Range	22.15000
		Interquartile Range	5.55000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	22.28118	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.94
99%	25.94
95%	24.20
90%	19.90
75% Q3	18.01
50% Median	14.88
25% Q1	12.46
10%	10.56
5%	9.10
1%	3.79
0% Min	3.79

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SAL_Perc

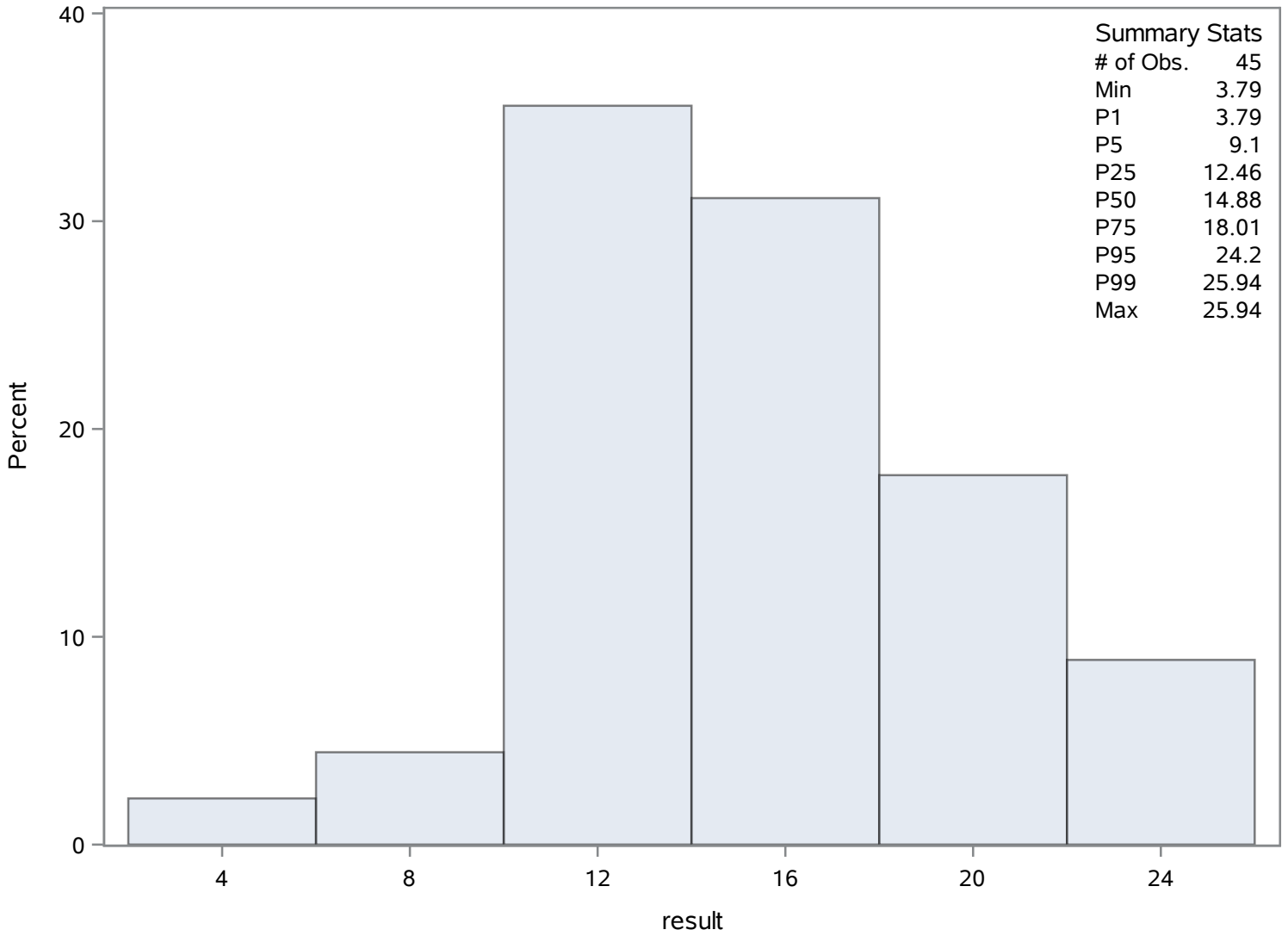
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.79	306	19.90	303
7.26	314	23.80	298
9.10	295	24.20	302
10.10	296	25.38	331
10.56	304	25.94	321

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	24.9311111	Sum Observations	1121.9
Std Deviation	7.03772407	Variance	49.5295601
Skewness	0.13687558	Kurtosis	0.3306876
Uncorrected SS	30149.5142	Corrected SS	2179.30064
Coeff Variation	28.228682	Std Error Mean	1.04912196

Basic Statistical Measures			
Location		Variability	
Mean	24.93111	Std Deviation	7.03772
Median	24.42000	Variance	49.52956
Mode	.	Range	33.57000
		Interquartile Range	8.92000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	23.76379	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	40.54
99%	40.54
95%	38.35
90%	32.05
75% Q3	29.91
50% Median	24.42
25% Q1	20.99
10%	17.17
5%	15.09
1%	6.97
0% Min	6.97

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SPCOND_mS_cm

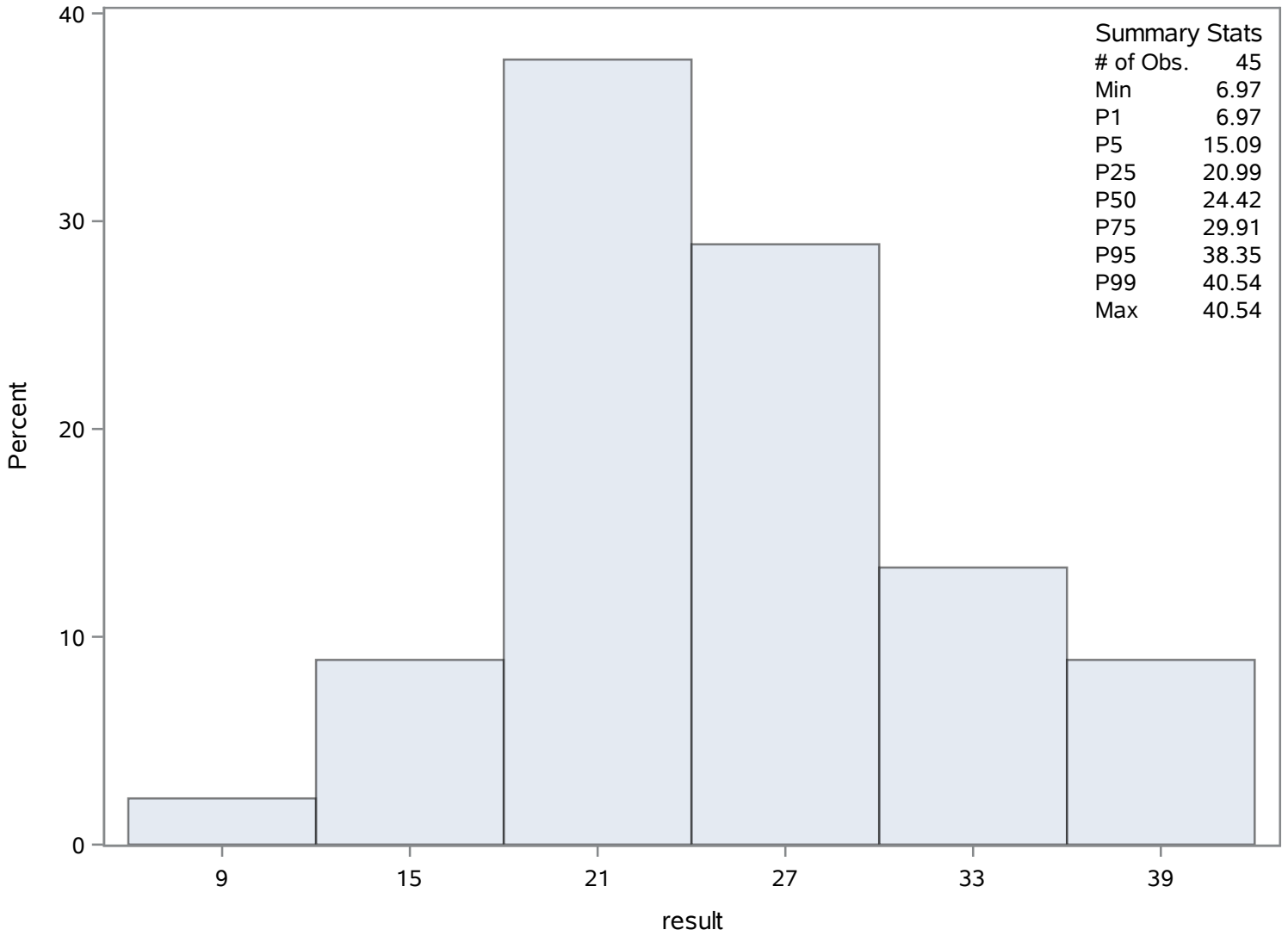
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.97	351	32.05	348
12.75	359	37.68	343
15.09	349	38.35	347
15.72	340	39.70	376
17.17	341	40.54	366

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	2.36111111	Sum Observations	85
Std Deviation	1.55200843	Variance	2.40873016
Skewness	1.24600574	Kurtosis	0.81699322
Uncorrected SS	285	Corrected SS	84.3055556
Coeff Variation	65.7321216	Std Error Mean	0.25866807

Basic Statistical Measures			
Location		Variability	
Mean	2.361111	Std Deviation	1.55201
Median	2.000000	Variance	2.40873
Mode	2.000000	Range	6.00000
		Interquartile Range	1.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.127957	Pr > t 	<.0001
Sign	M	17.5	Pr >= M 	<.0001
Signed Rank	S	315	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	6.0
99%	6.0
95%	6.0
90%	5.0
75% Q3	2.5
50% Median	2.0
25% Q1	1.0
10%	1.0
5%	1.0
1%	0.0
0% Min	0.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SRP_ugL

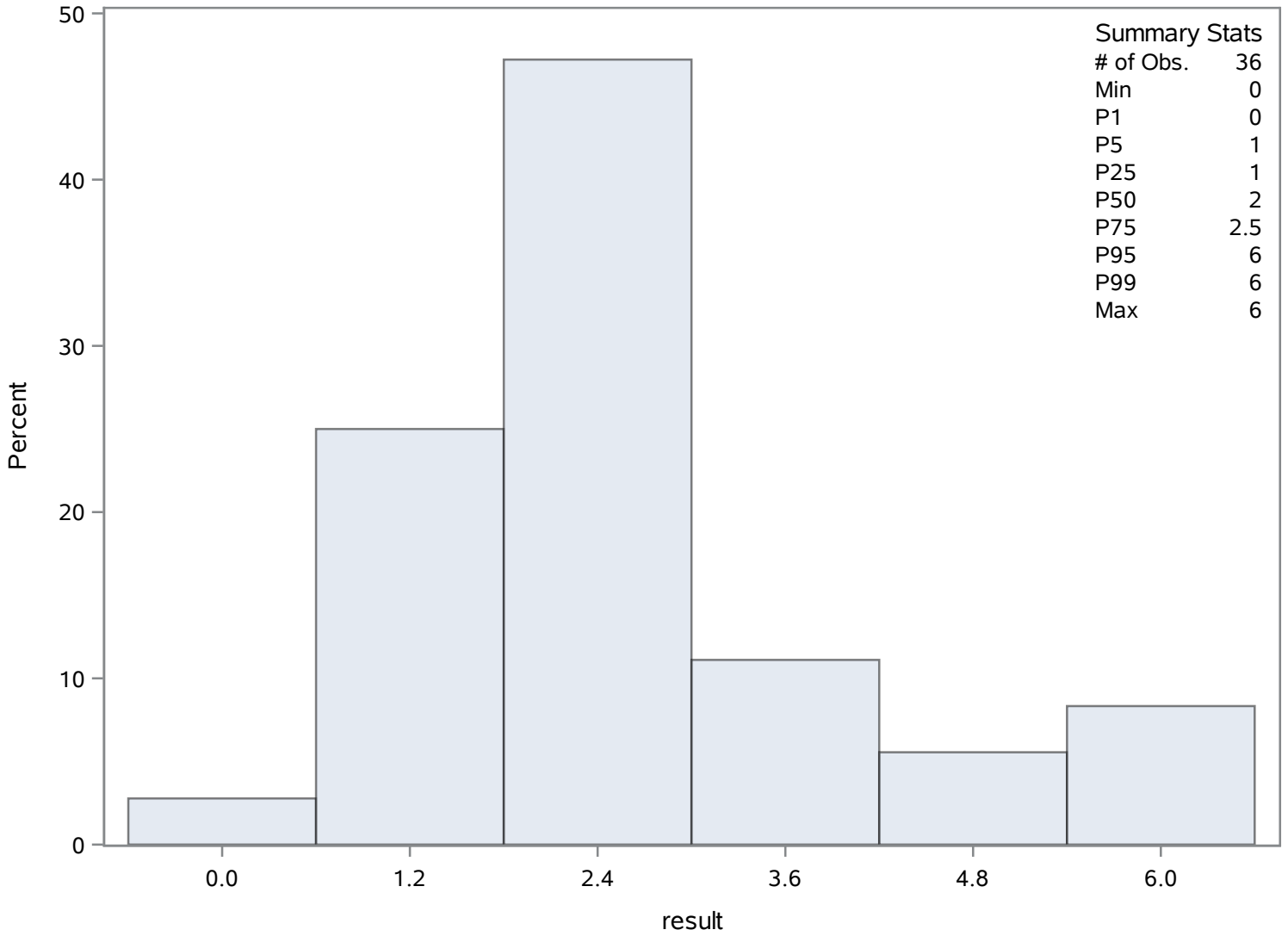
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	398	5	411
1	414	5	412
1	413	6	391
1	397	6	401
1	394	6	402

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	23.3502222	Sum Observations	1050.76
Std Deviation	5.93546065	Variance	35.2296931
Skewness	-0.046603	Kurtosis	-1.4338665
Uncorrected SS	26085.586	Corrected SS	1550.1065
Coeff Variation	25.4192898	Std Error Mean	0.88480623

Basic Statistical Measures			
Location		Variability	
Mean	23.35022	Std Deviation	5.93546
Median	22.32000	Variance	35.22969
Mode	29.70000	Range	18.94000
		Interquartile Range	10.93000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	26.39021	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.52
99%	31.52
95%	31.33
90%	31.00
75% Q3	29.44
50% Median	22.32
25% Q1	18.51
10%	15.02
5%	14.80
1%	12.58
0% Min	12.58

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TEMP_C

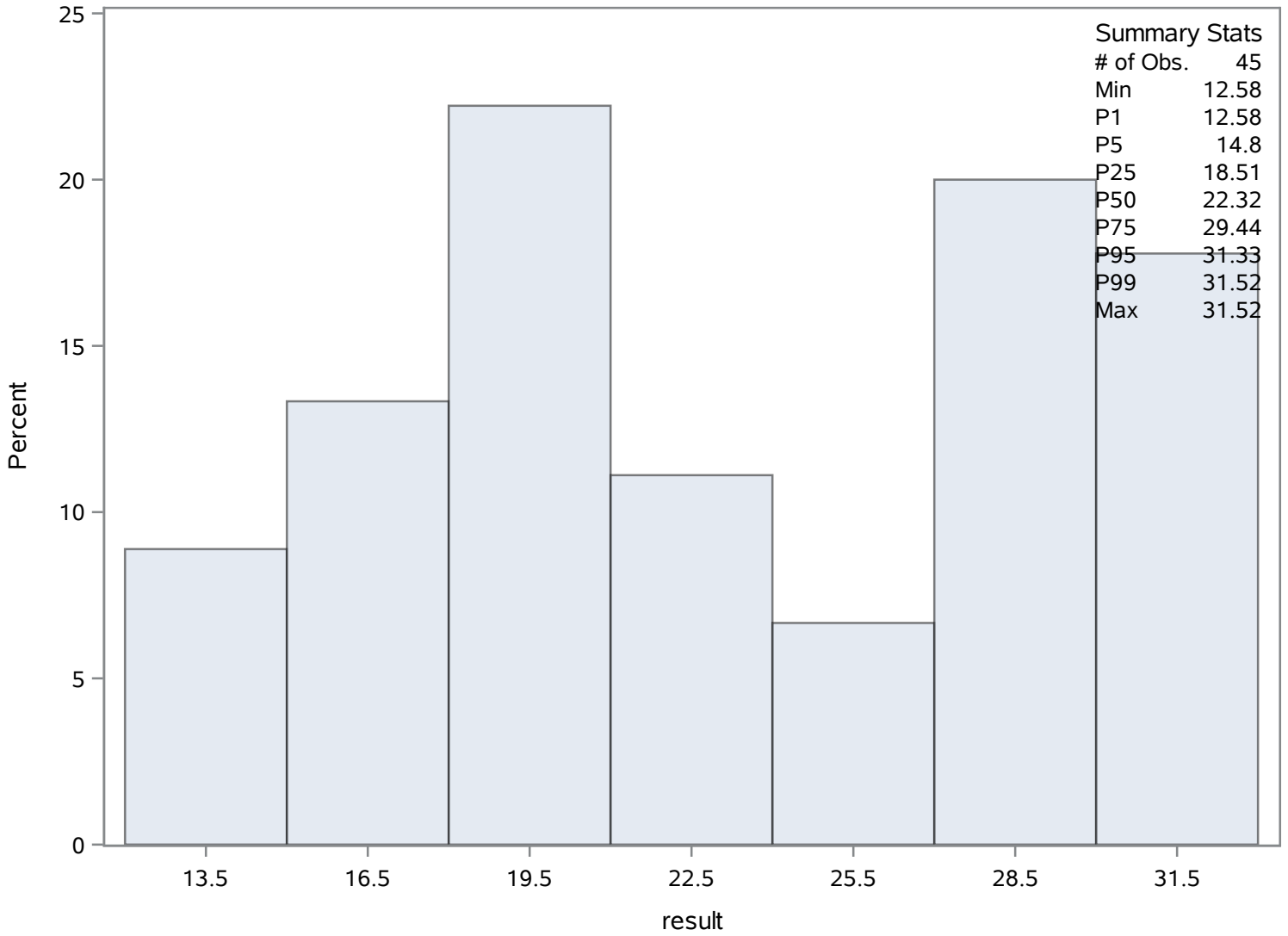
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.58	458	31.00	421
14.45	462	31.18	456
14.80	423	31.33	448
14.87	441	31.43	460
15.02	438	31.52	444

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	452.444444	Sum Observations	20360
Std Deviation	125.854634	Variance	15839.3889
Skewness	0.23024368	Kurtosis	-0.3275851
Uncorrected SS	9908702	Corrected SS	696933.111
Coeff Variation	27.8165939	Std Error Mean	18.7613011

Basic Statistical Measures			
Location		Variability	
Mean	452.4444	Std Deviation	125.85463
Median	460.0000	Variance	15839
Mode	300.0000	Range	580.00000
		Interquartile Range	160.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	24.11584	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	780
99%	780
95%	630
90%	620
75% Q3	520
50% Median	460
25% Q1	360
10%	300
5%	280
1%	200
0% Min	200

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TN_ugl

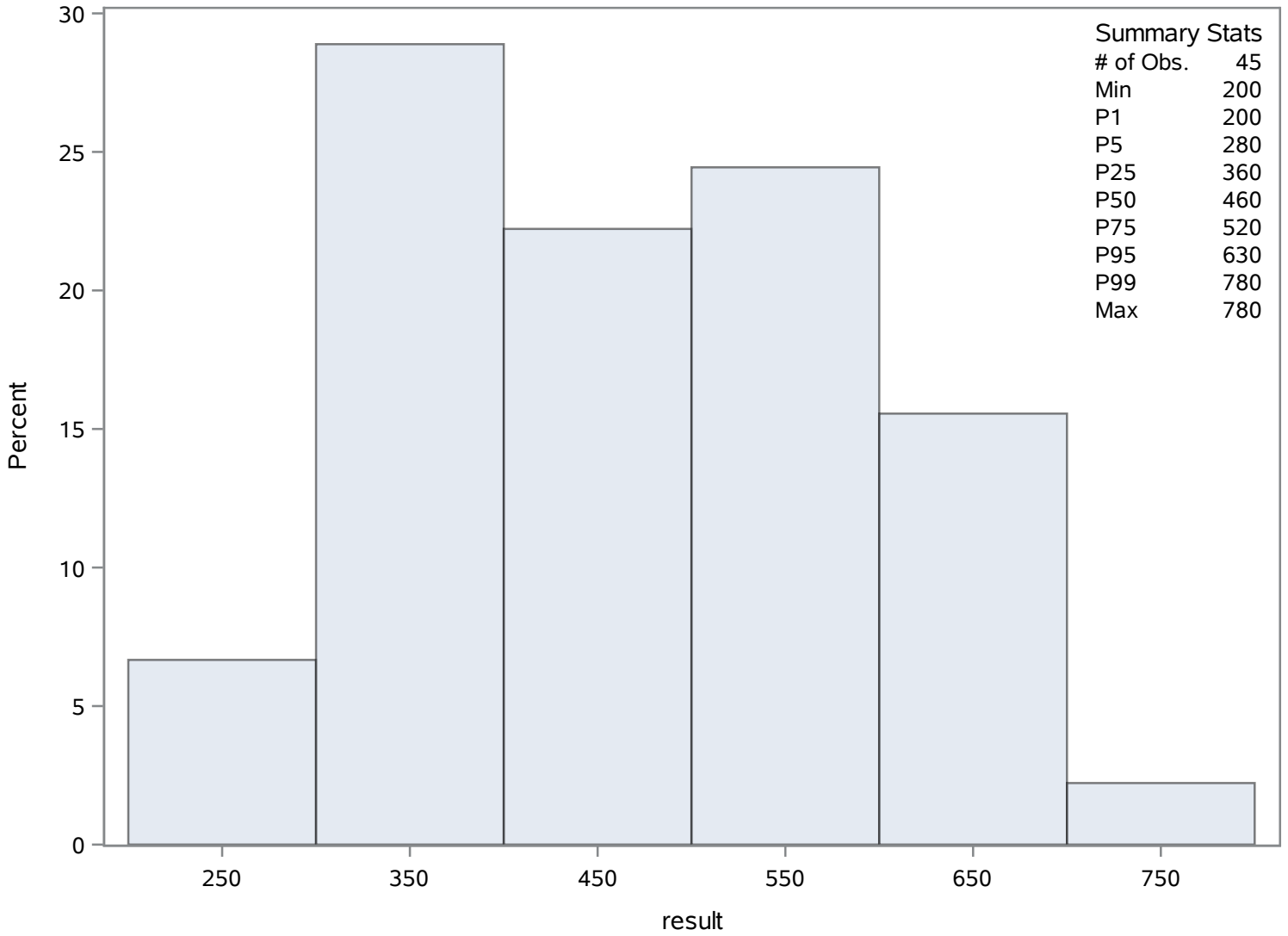
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
200	482	620	505
260	507	630	493
280	487	630	501
300	491	650	473
300	486	780	466

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	13.2444444	Sum Observations	596
Std Deviation	5.12638254	Variance	26.279798
Skewness	1.78000599	Kurtosis	5.14513945
Uncorrected SS	9050	Corrected SS	1156.31111
Coeff Variation	38.7059085	Std Error Mean	0.76419599

Basic Statistical Measures			
Location		Variability	
Mean	13.24444	Std Deviation	5.12638
Median	12.00000	Variance	26.27980
Mode	12.00000	Range	28.00000
		Interquartile Range	5.00000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.33121	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	34
99%	34
95%	20
90%	19
75% Q3	15
50% Median	12
25% Q1	10
10%	8
5%	7

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TP_ugl

The UNIVARIATE Procedure
Variable: result

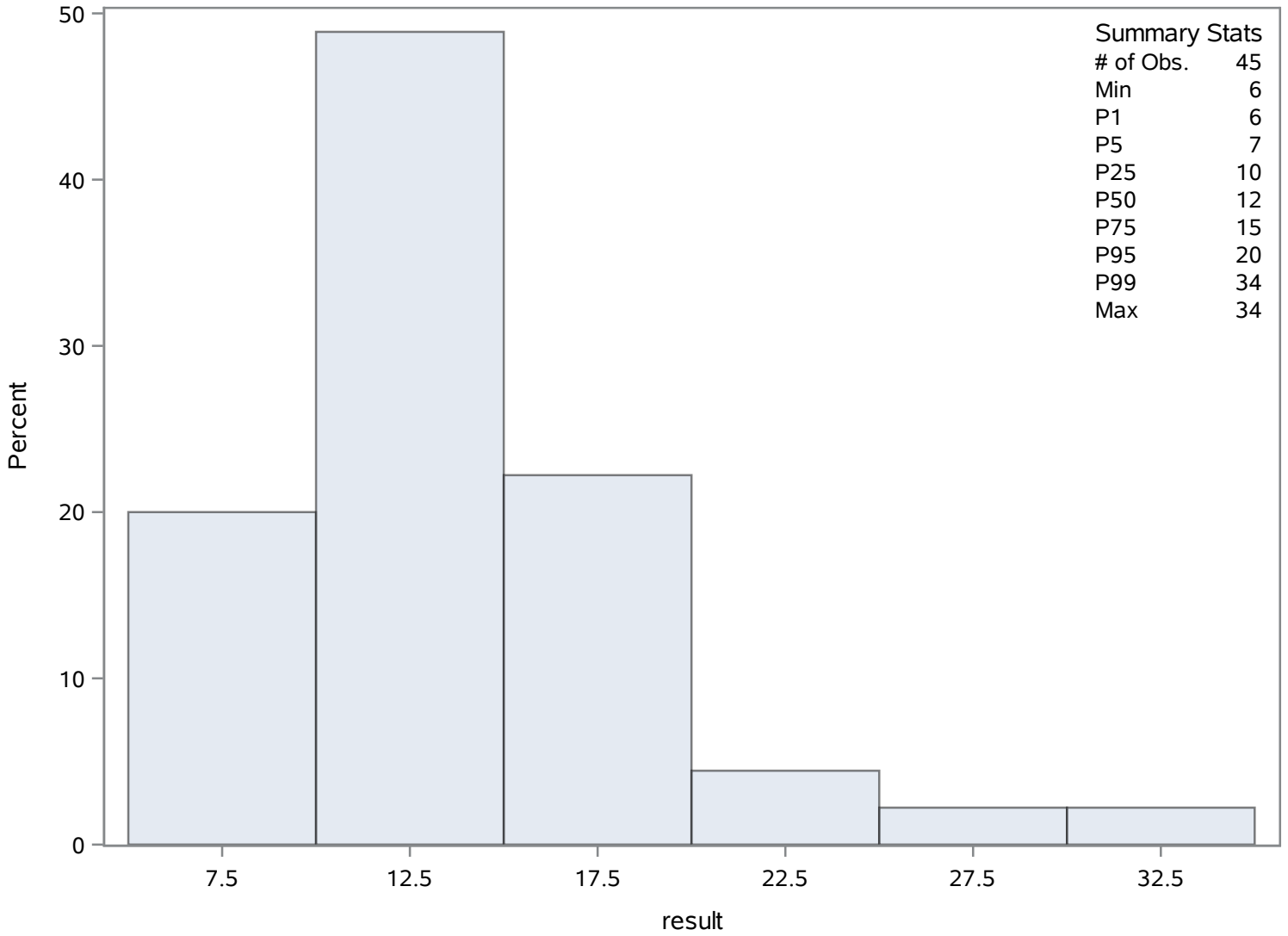
Quantiles (Definition 5)	
Level	Quantile
1%	6
0% Min	6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6	536	19	550
7	552	20	511
7	535	20	523
8	540	25	546
8	532	34	522

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	7.98833333	Sum Observations	287.58
Std Deviation	0.20594729	Variance	0.04241429
Skewness	-0.1108156	Kurtosis	-0.6835554
Uncorrected SS	2298.7694	Corrected SS	1.4845
Coeff Variation	2.57810084	Std Error Mean	0.03432455

Basic Statistical Measures			
Location		Variability	
Mean	7.988333	Std Deviation	0.20595
Median	7.975000	Variance	0.04241
Mode	7.910000	Range	0.78000
		Interquartile Range	0.30000

Note: The mode displayed is the smallest of 5 modes with a count of 2.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	232.7295	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.350
99%	8.350
95%	8.310
90%	8.280
75% Q3	8.155
50% Median	7.975
25% Q1	7.855
10%	7.710
5%	7.620

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Field

The UNIVARIATE Procedure
Variable: result

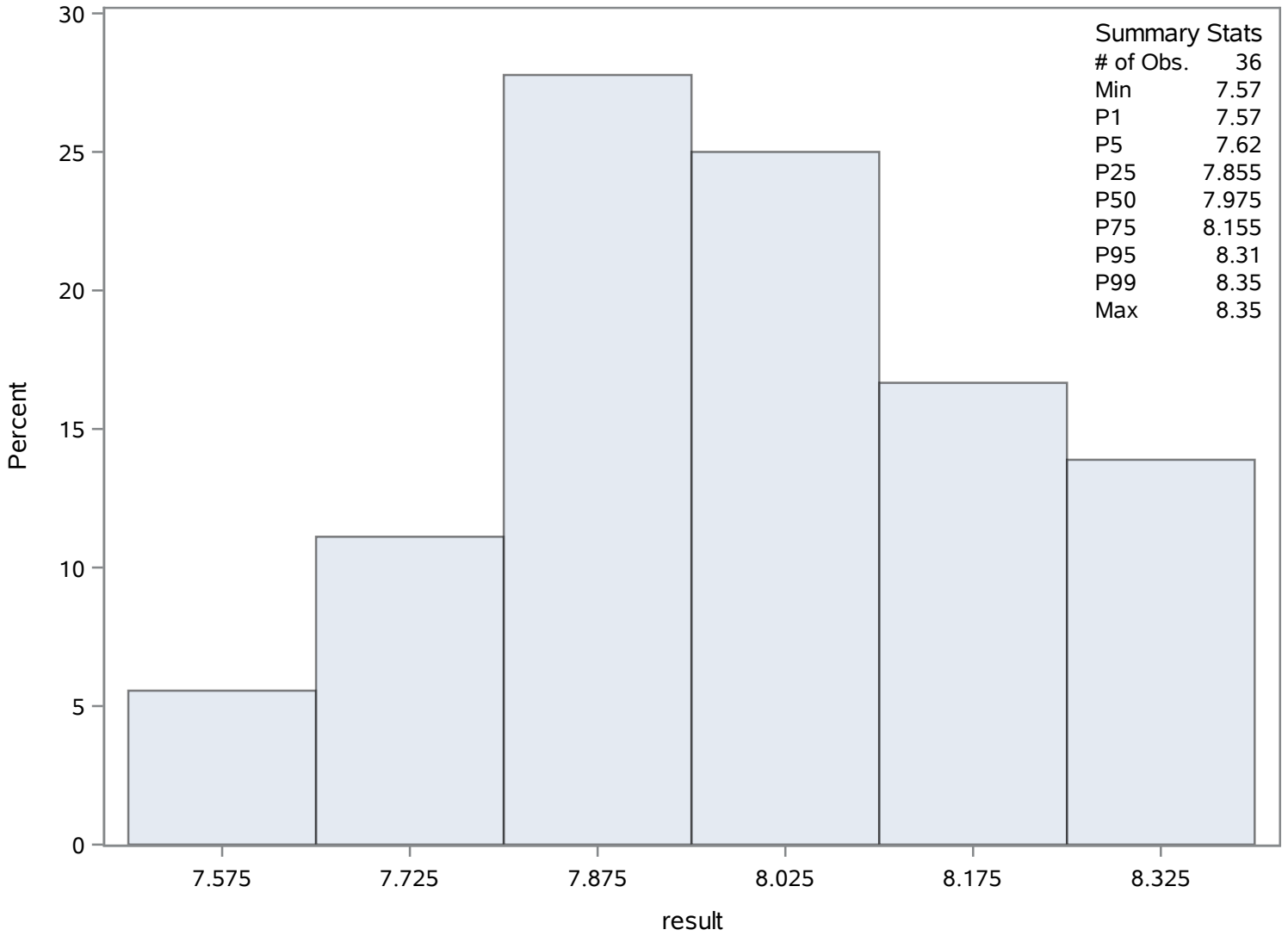
Quantiles (Definition 5)	
Level	Quantile
1%	7.570
0% Min	7.570

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.57	578	8.25	580
7.62	566	8.28	583
7.65	577	8.31	567
7.71	586	8.31	572
7.72	581	8.35	575

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	8.05333333	Sum Observations	362.4
Std Deviation	0.11984839	Variance	0.01436364
Skewness	0.00073687	Kurtosis	-0.6353628
Uncorrected SS	2919.16	Corrected SS	0.632
Coeff Variation	1.48818364	Std Error Mean	0.01786594

Basic Statistical Measures			
Location		Variability	
Mean	8.053333	Std Deviation	0.11985
Median	8.100000	Variance	0.01436
Mode	8.100000	Range	0.50000
		Interquartile Range	0.10000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	450.7645	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.3
99%	8.3
95%	8.2
90%	8.2
75% Q3	8.1
50% Median	8.1
25% Q1	8.0
10%	7.9
5%	7.9
1%	7.8
0% Min	7.8

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Lab

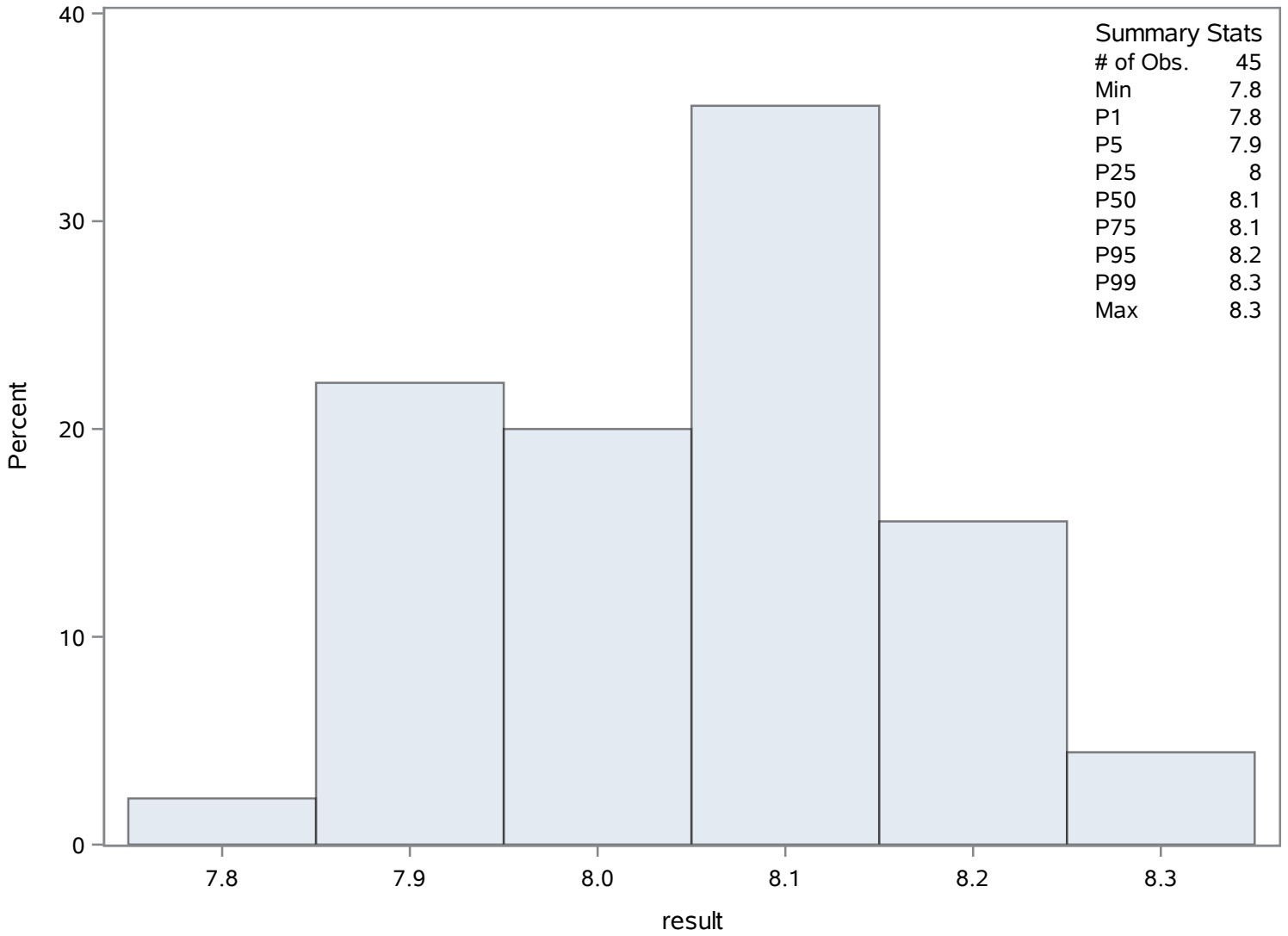
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.8	605	8.2	613
7.9	631	8.2	616
7.9	626	8.2	634
7.9	622	8.3	628
7.9	618	8.3	633

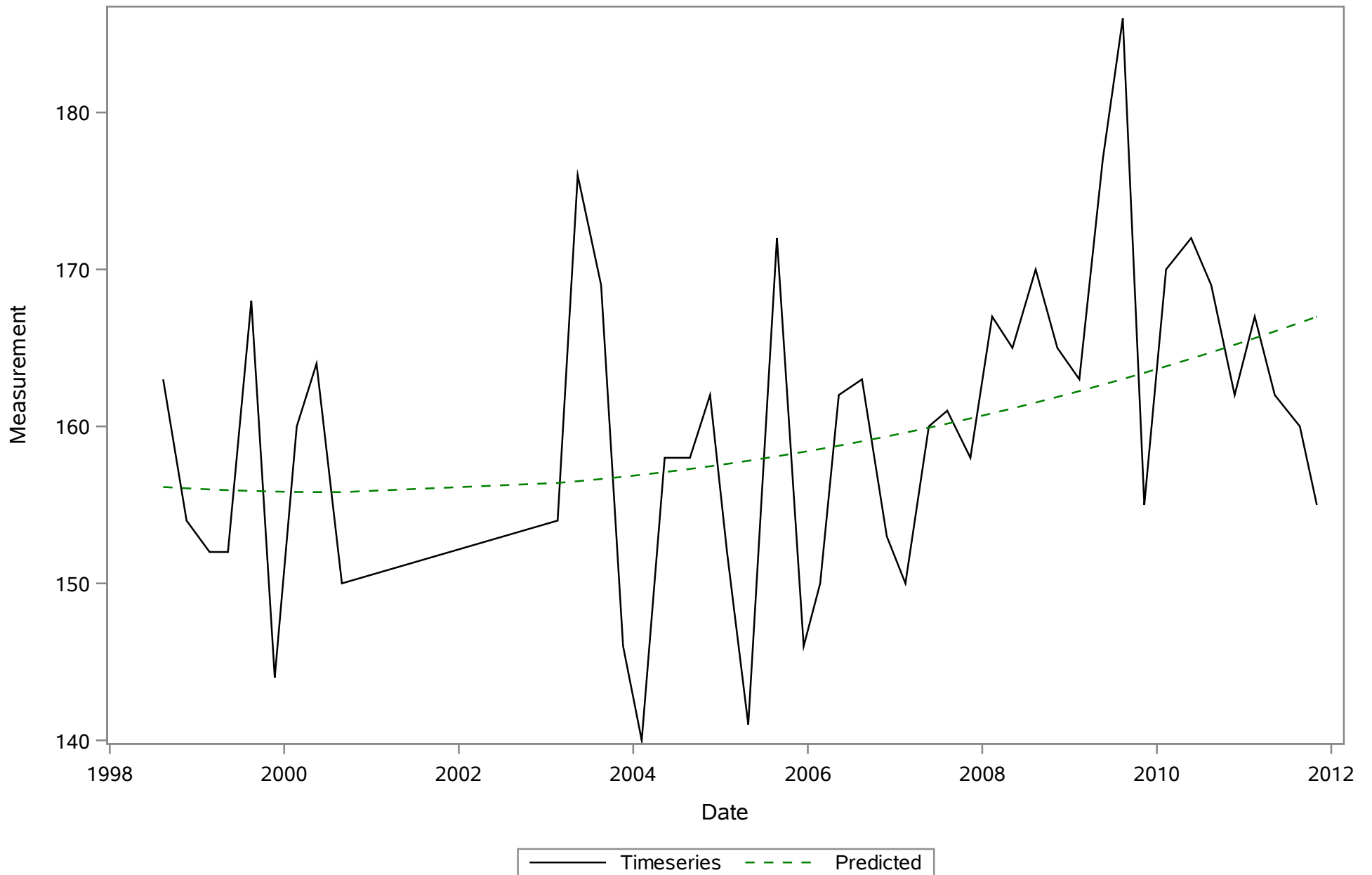
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Lab

The UNIVARIATE Procedure

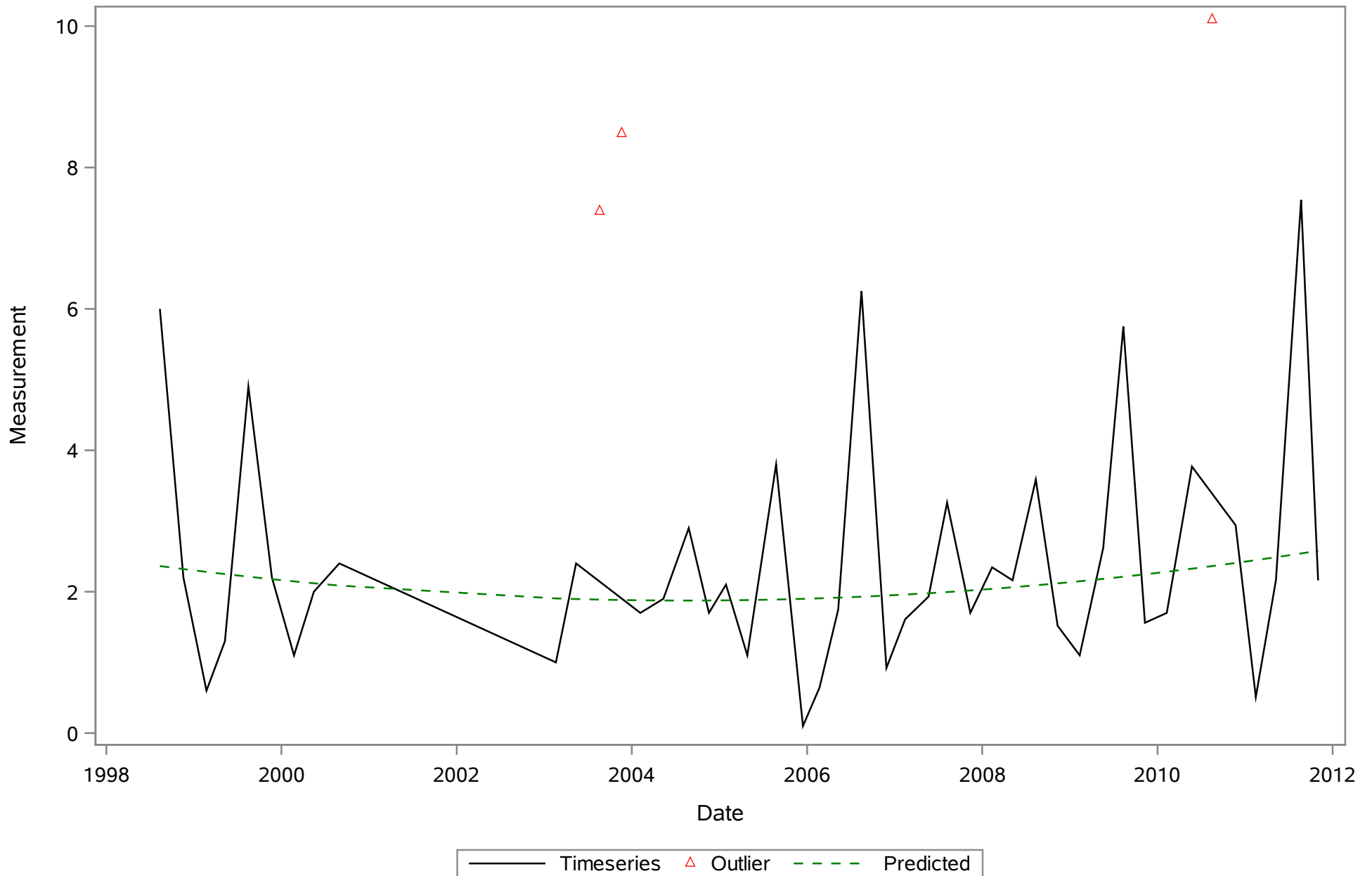
Distribution of result



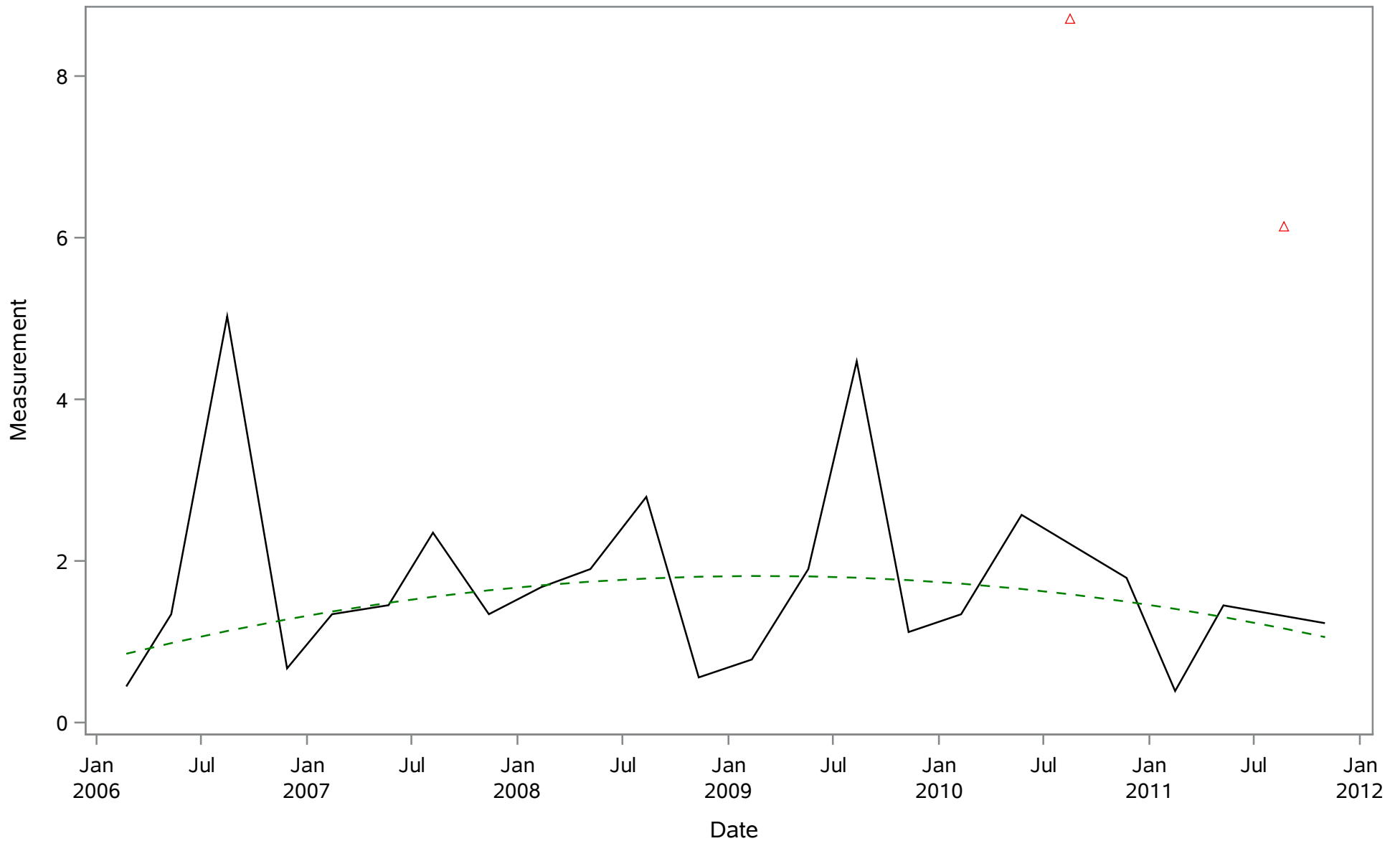
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
ALK_tot_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_Uncor_ugL

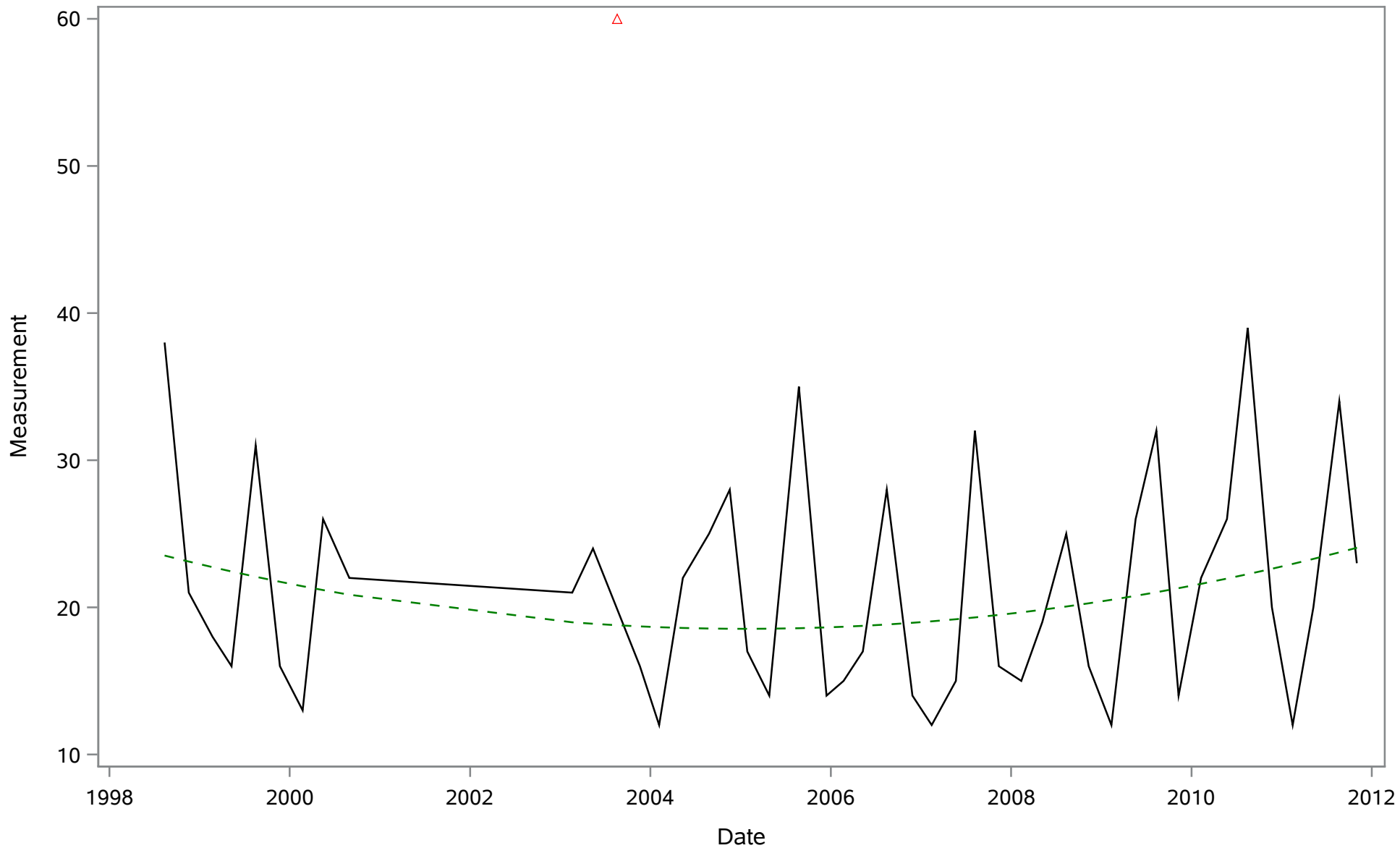


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_cor_ugl



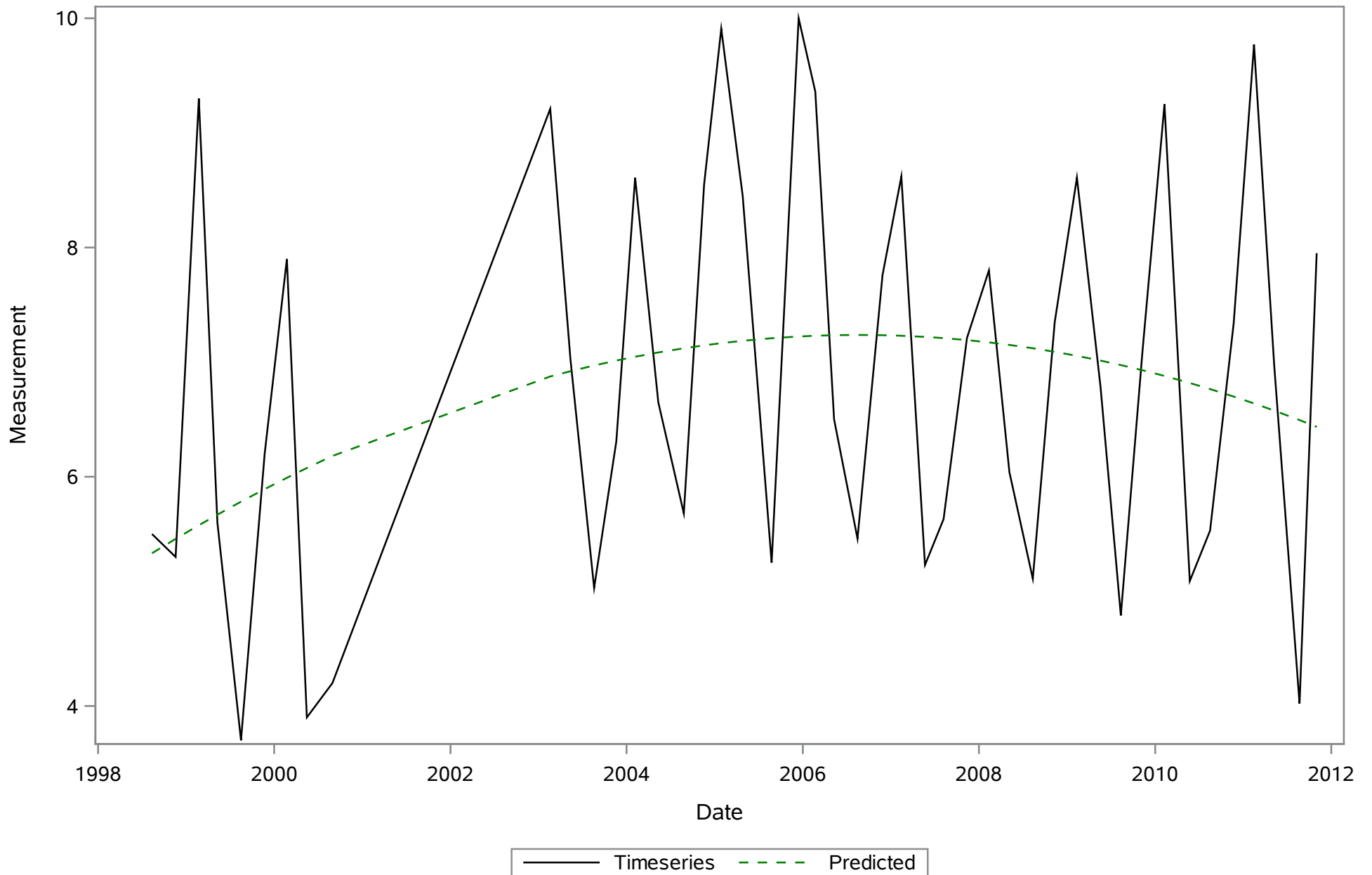
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
COLOR_PtCo

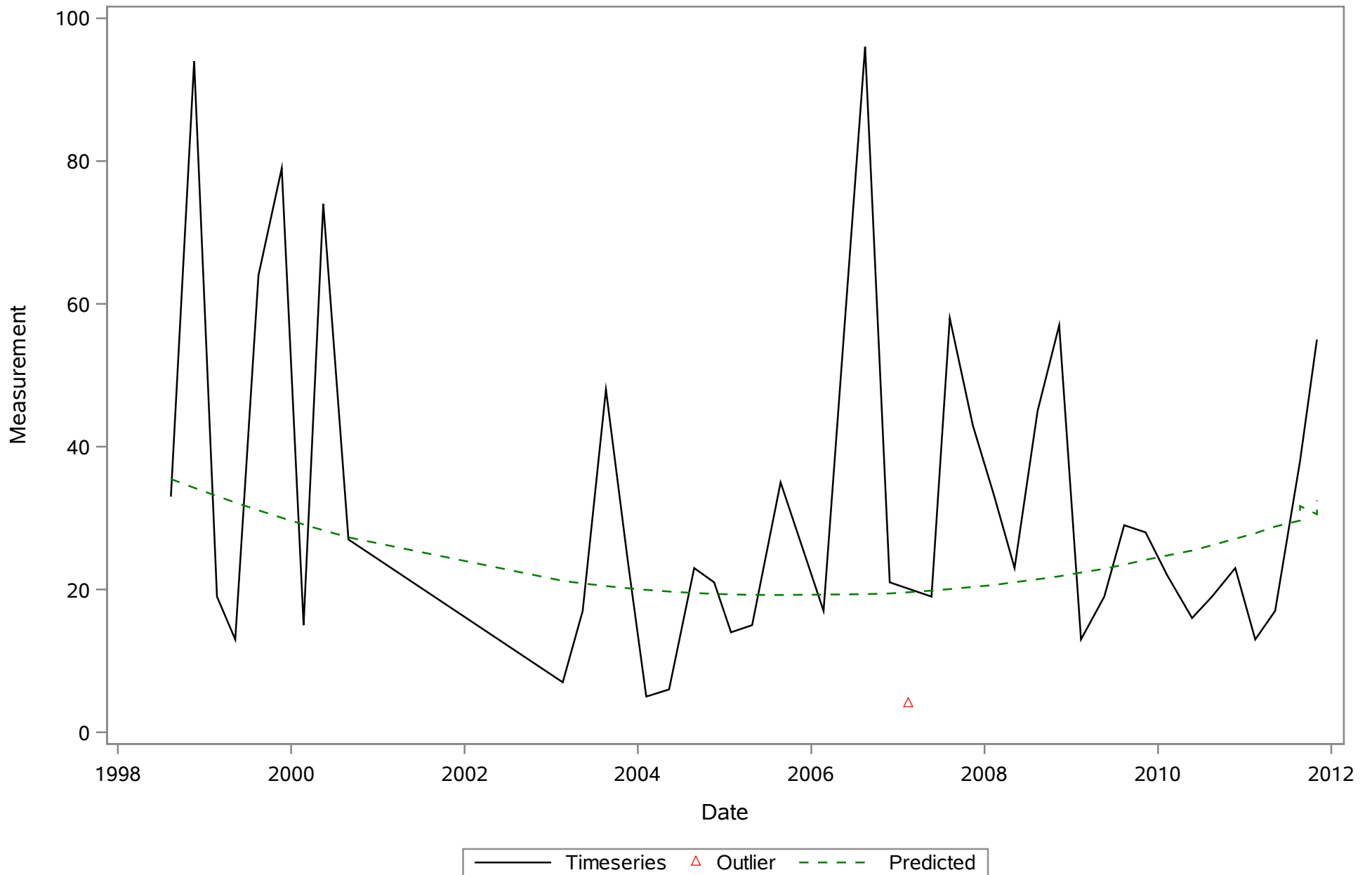


— Timeseries △ Outlier - - - Predicted

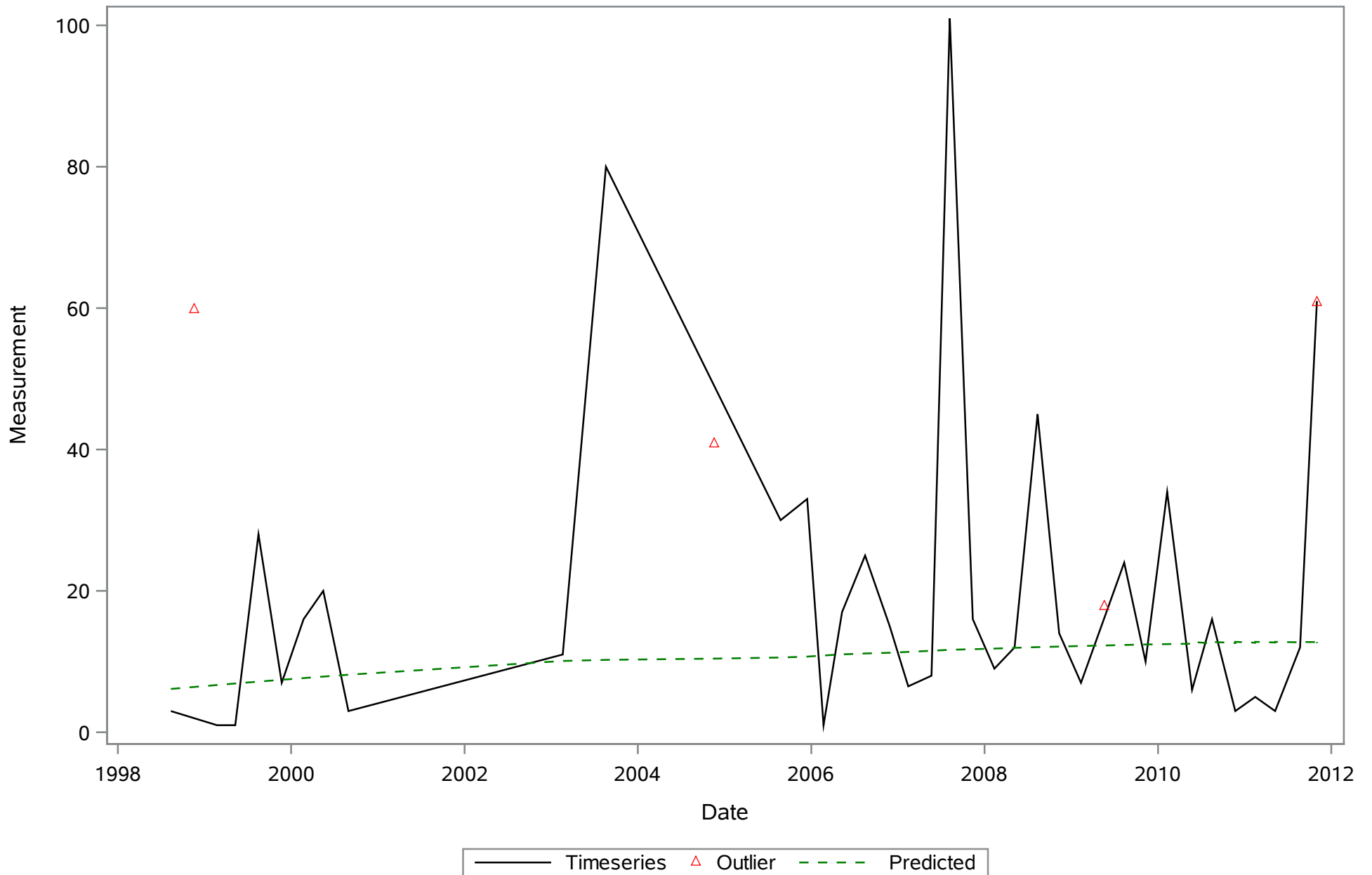
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
DO_mgL



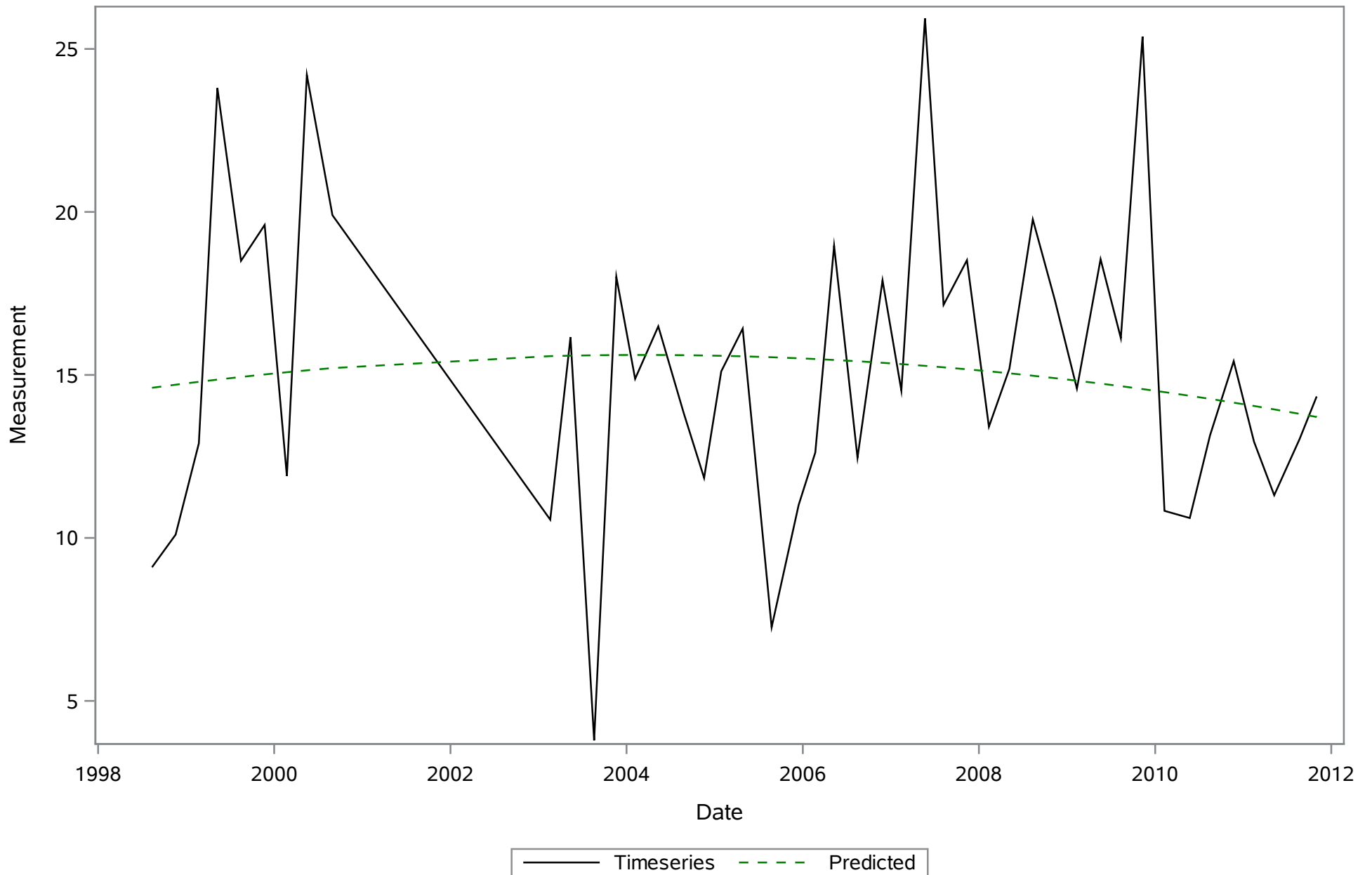
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NH4_ugl



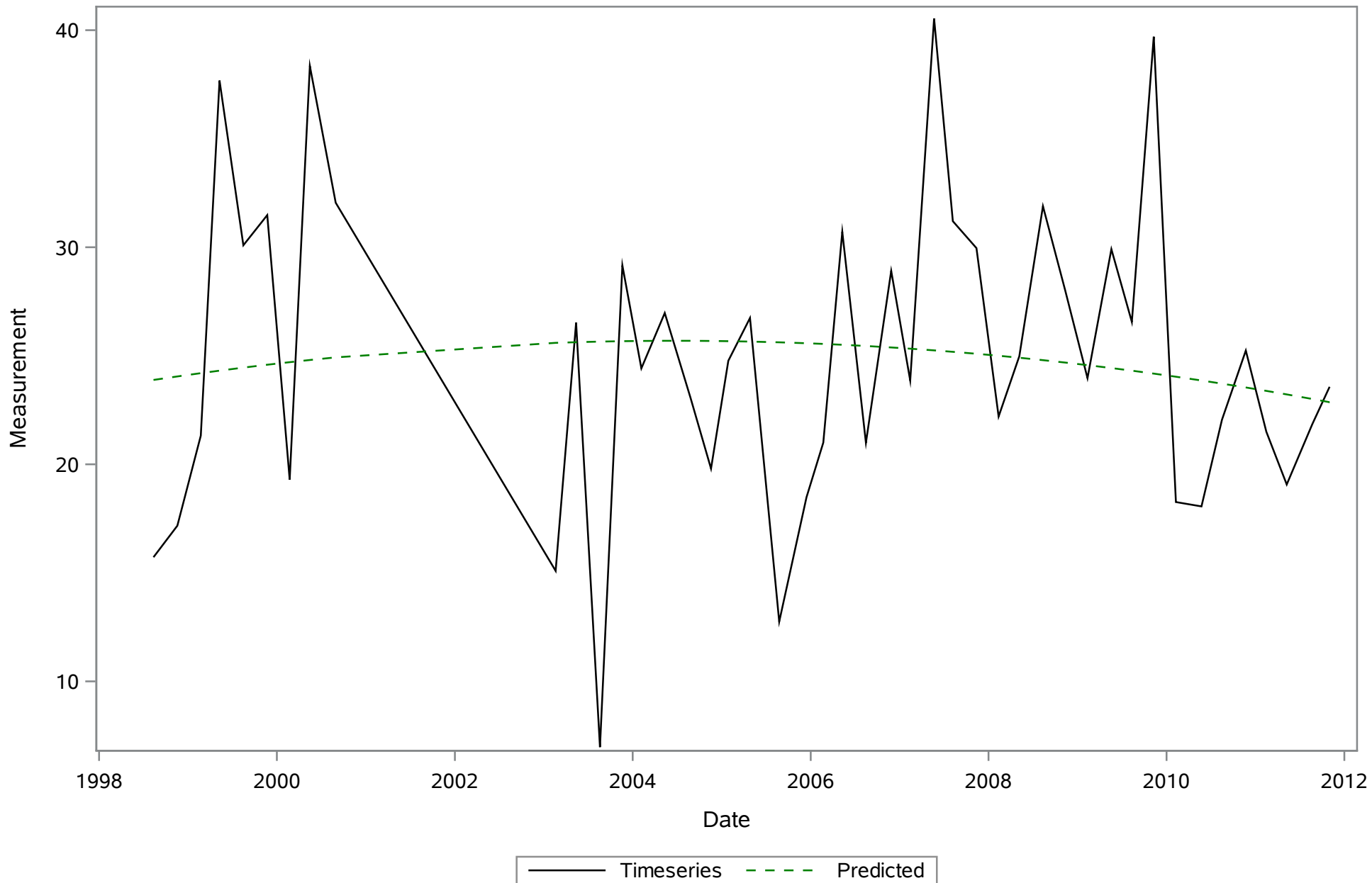
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NO3_ugL



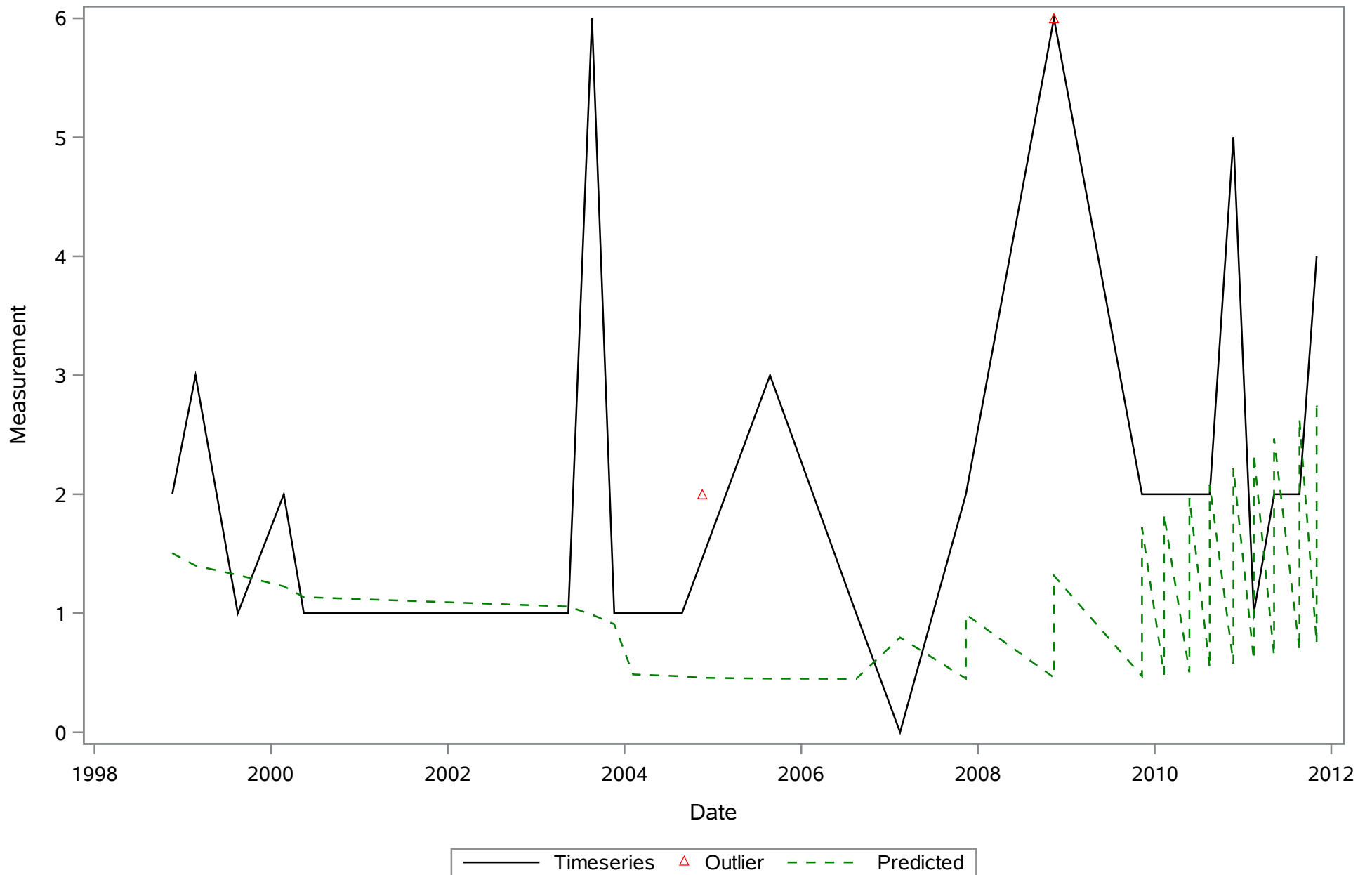
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SAL_Perc



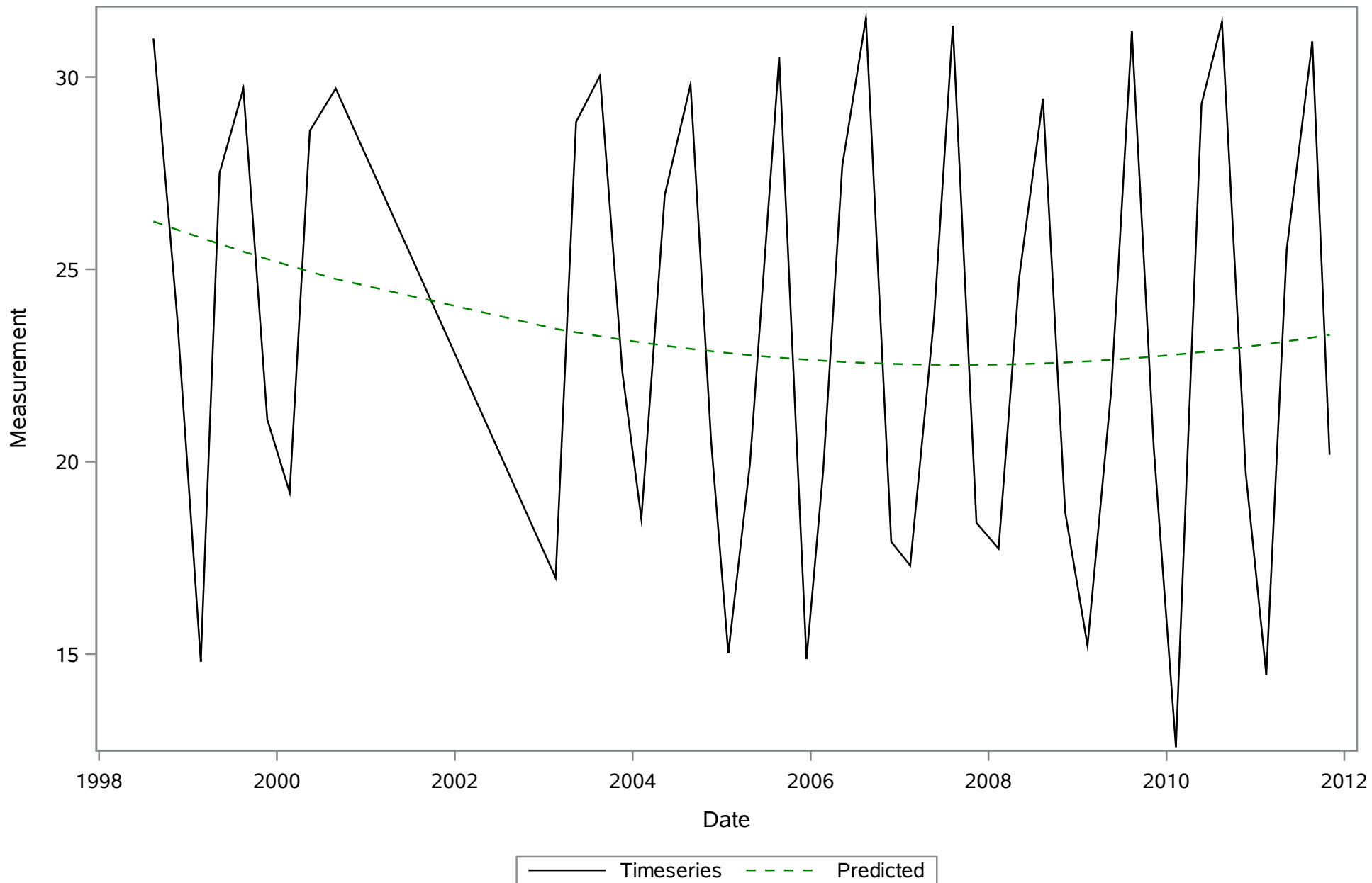
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SPCOND_mS_cm



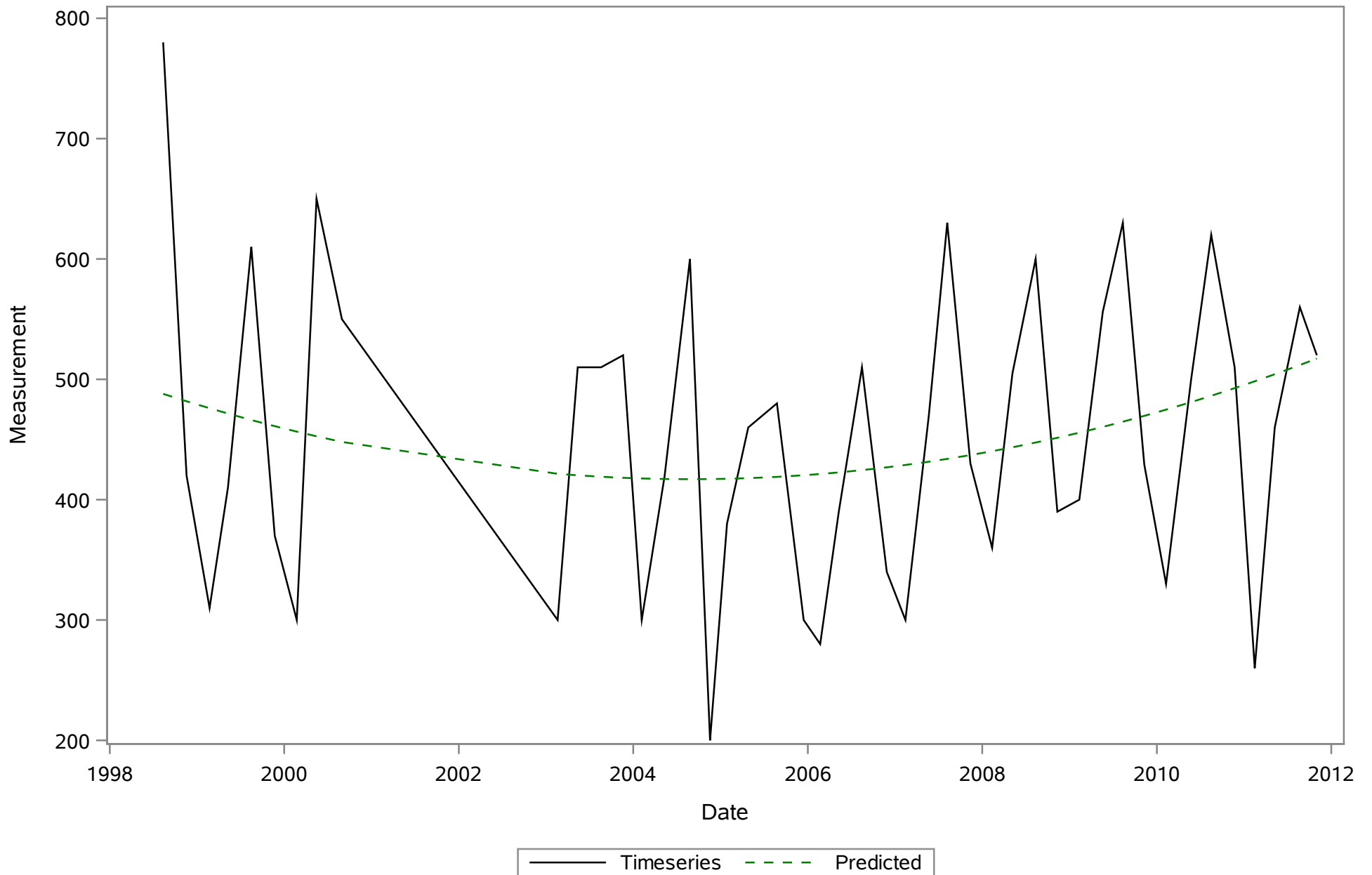
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SRP_ugL



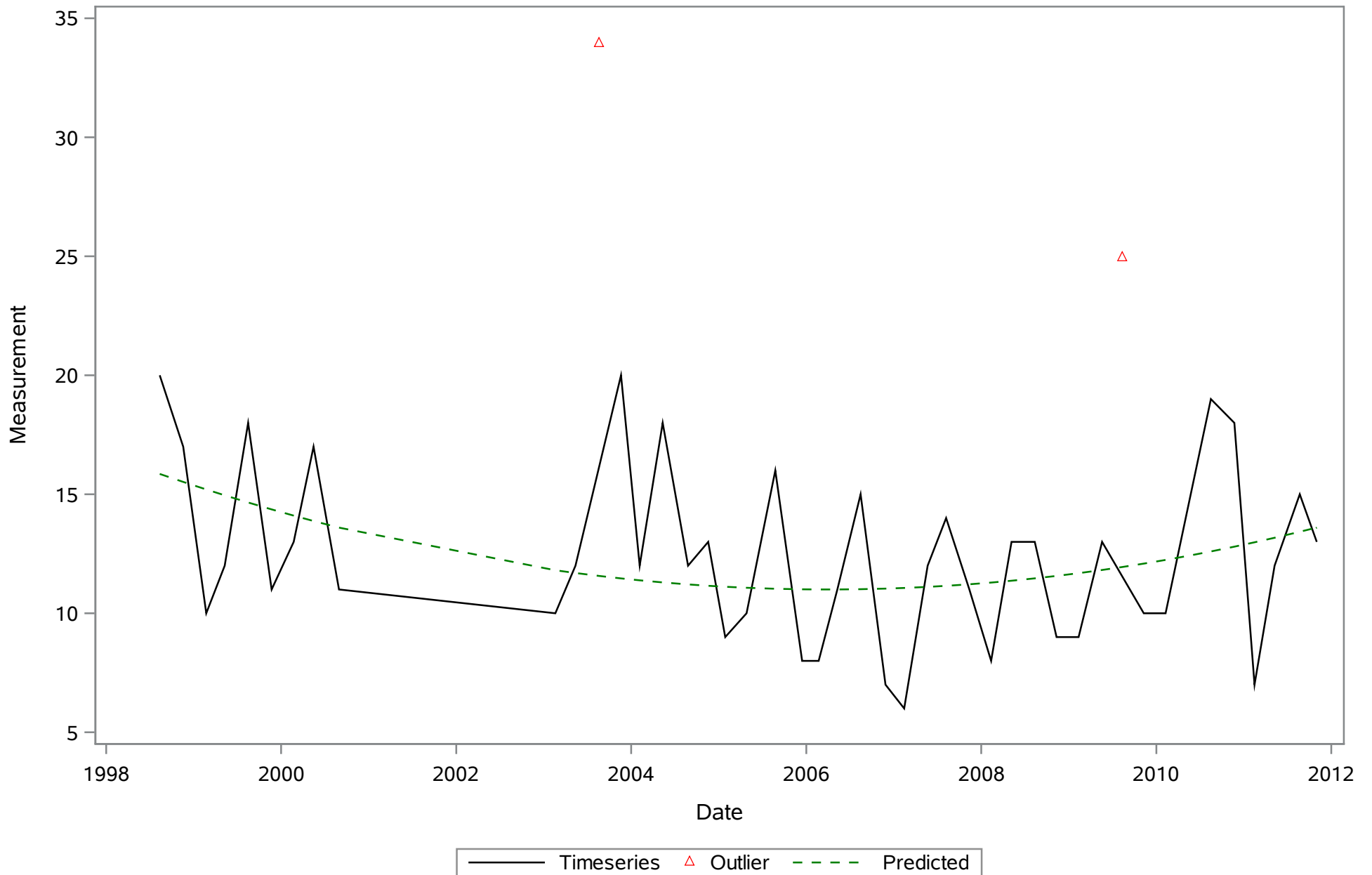
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TEMP_C



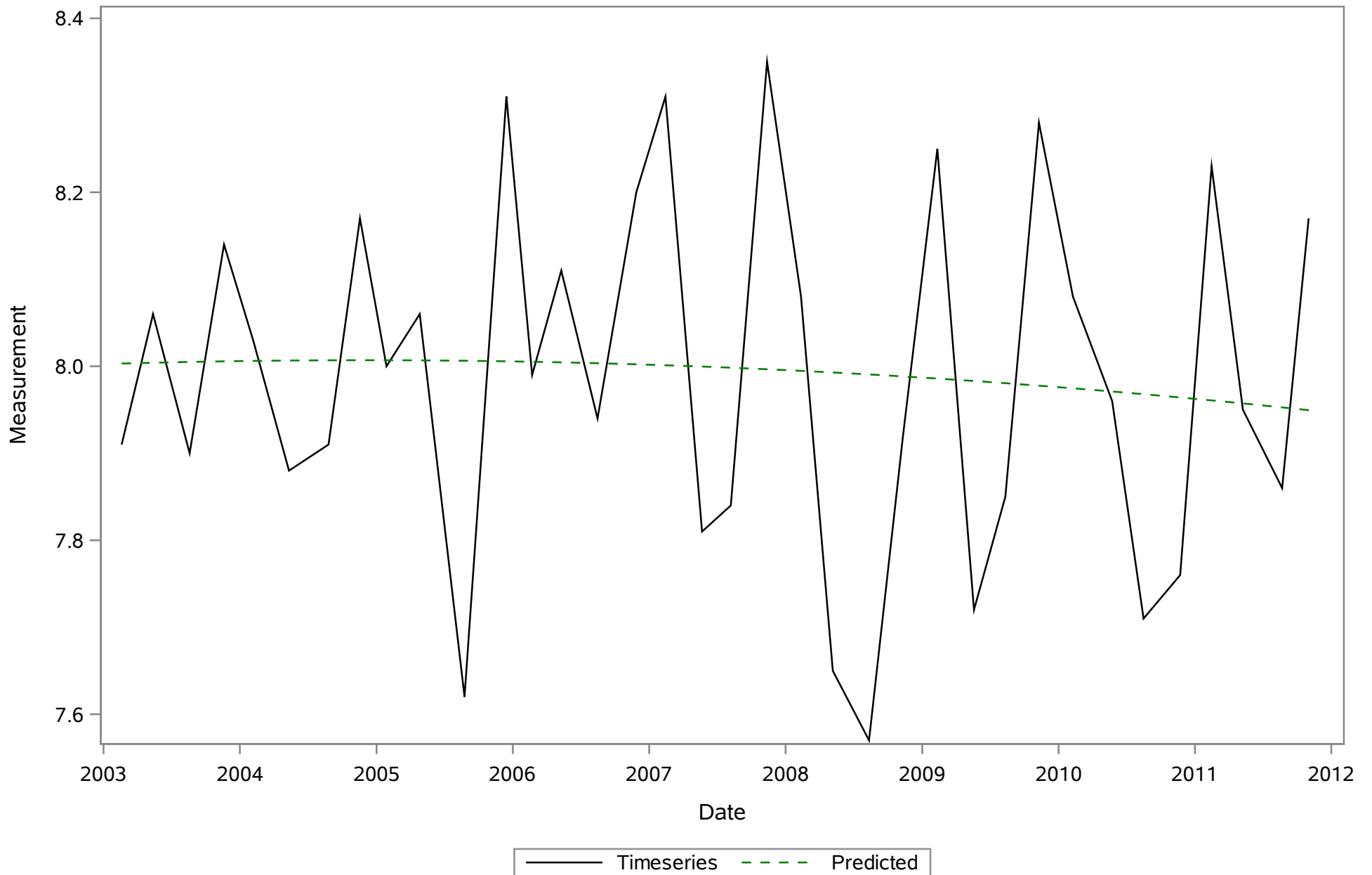
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TN_ugl



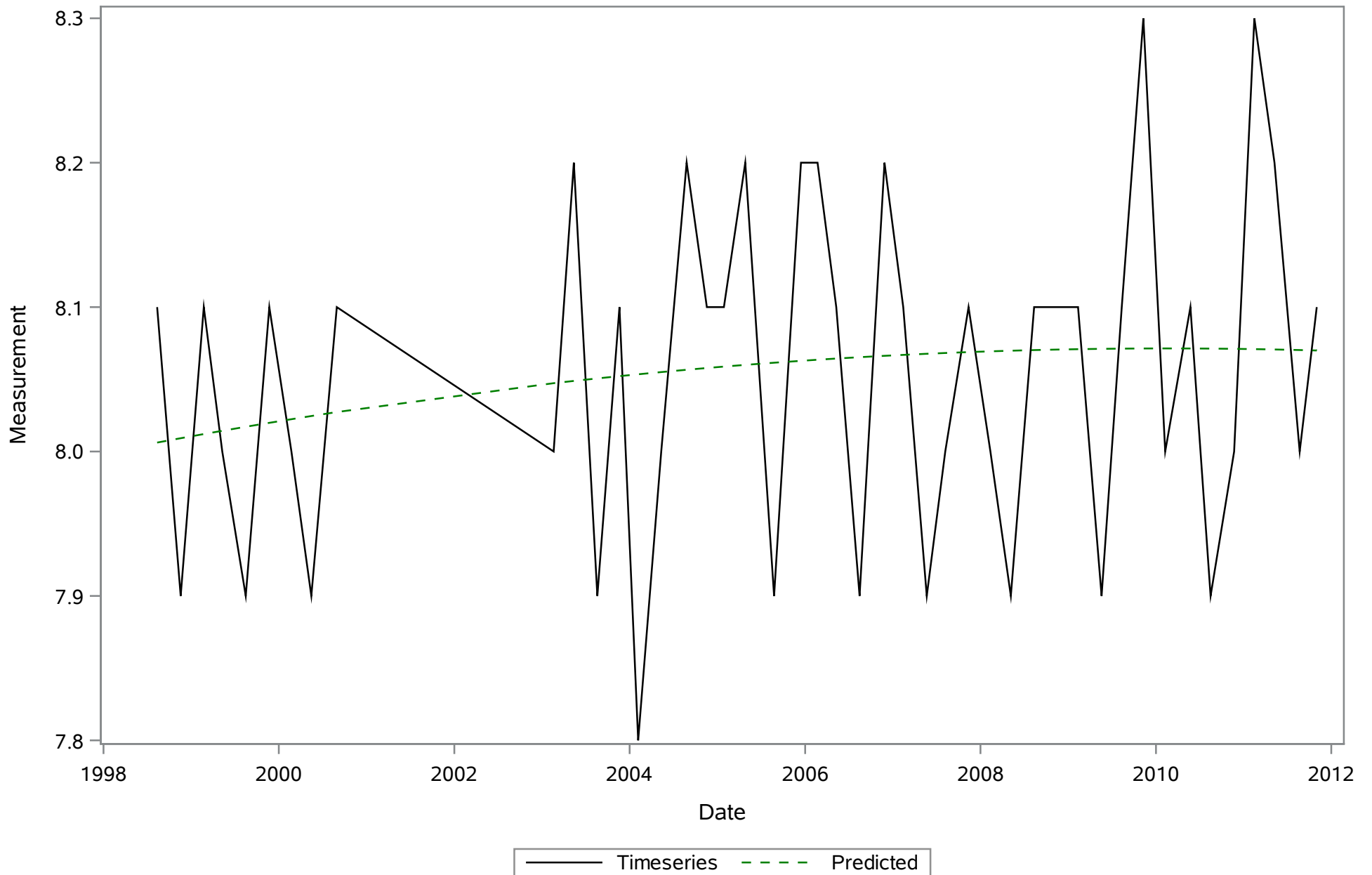
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TP_ugl



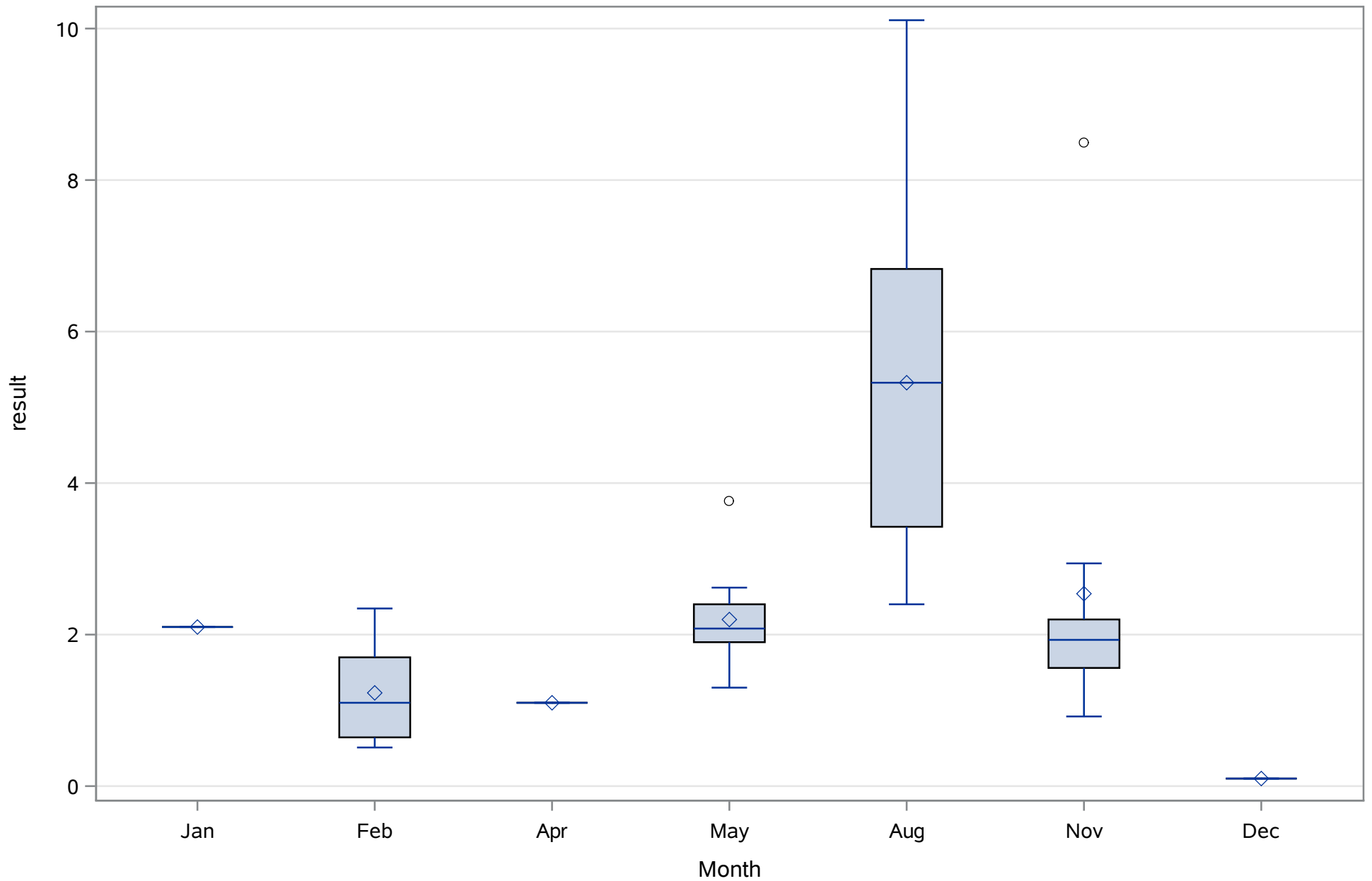
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Field



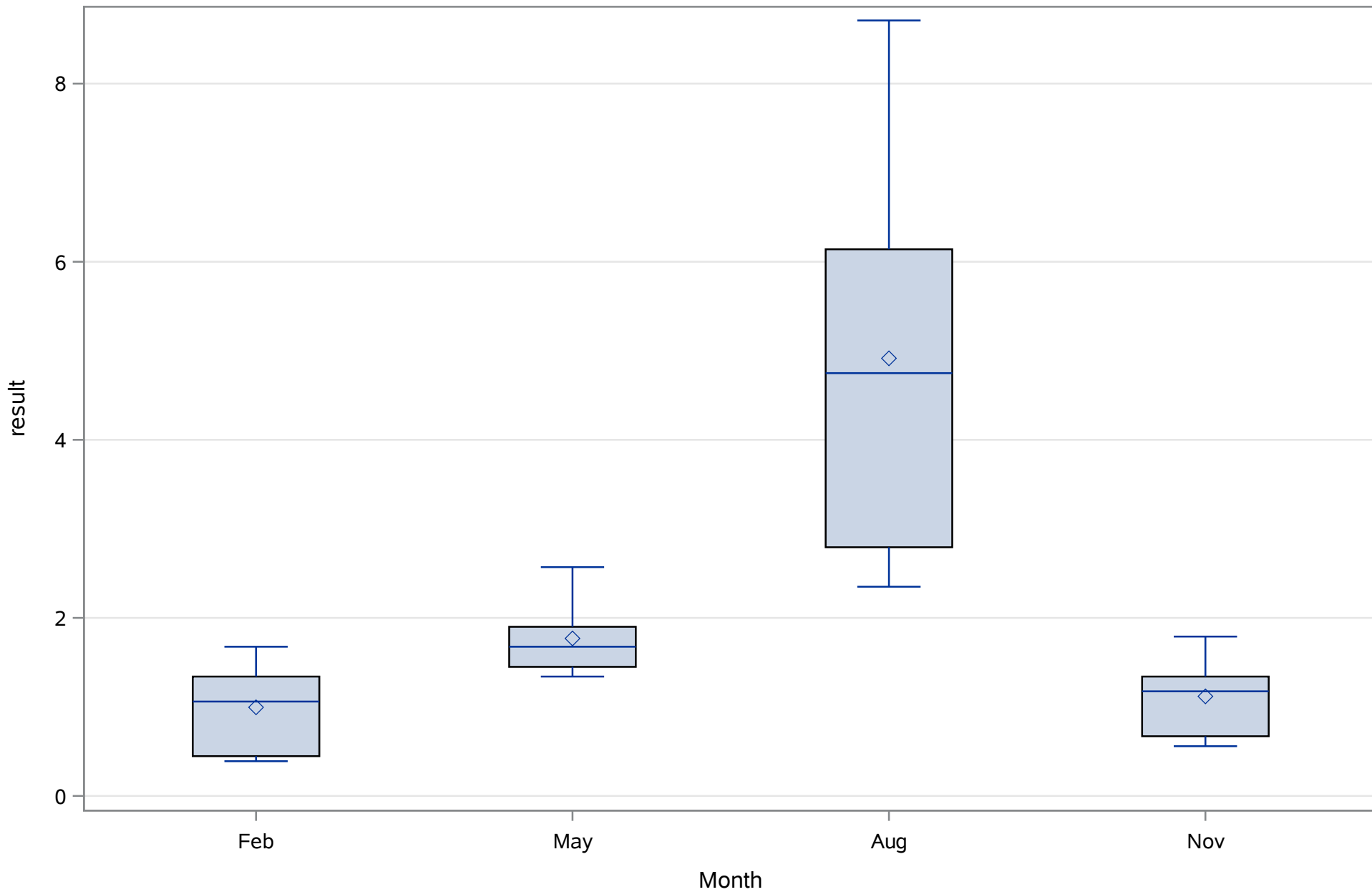
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Lab



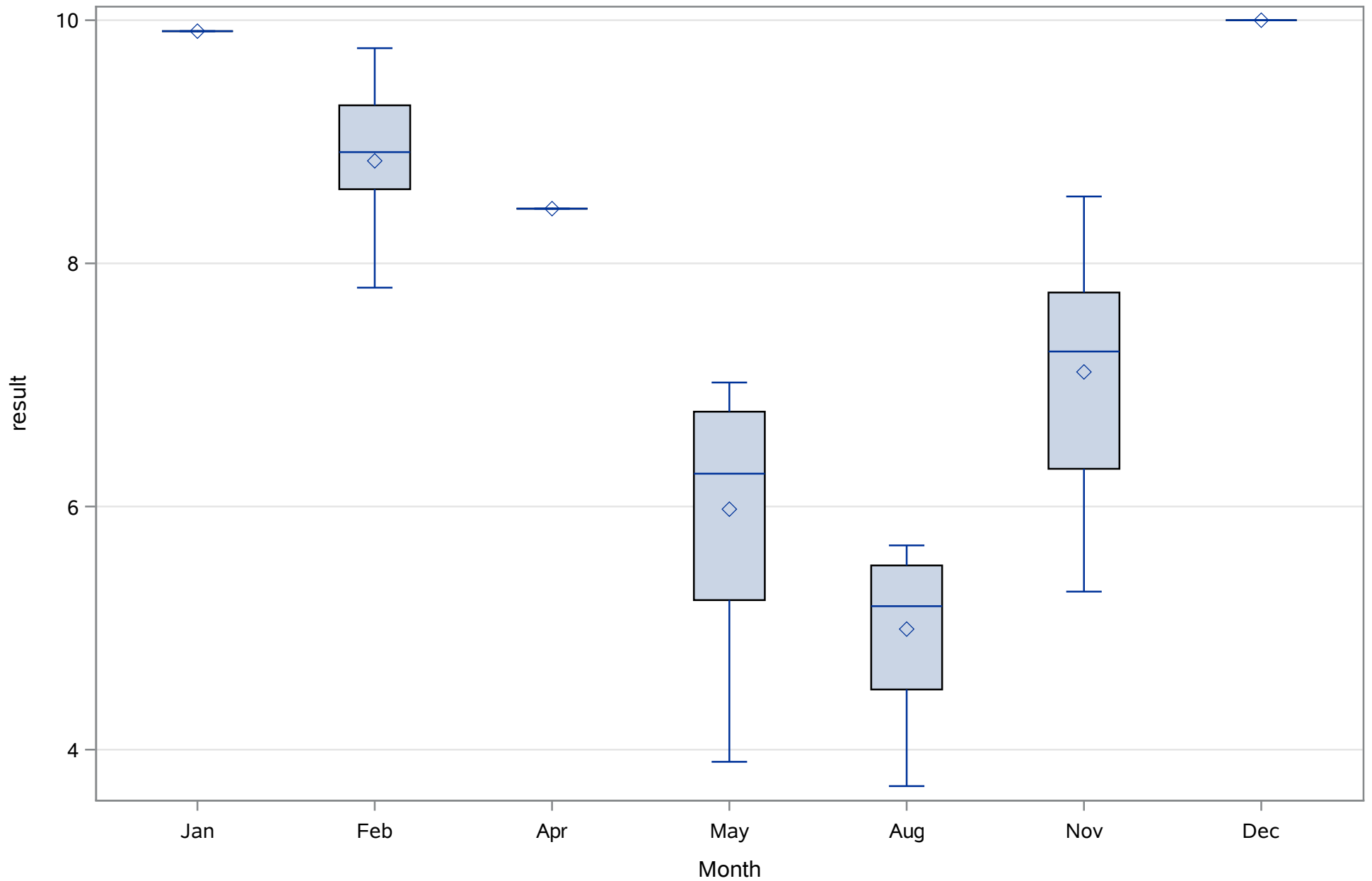
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_Uncor_ugL



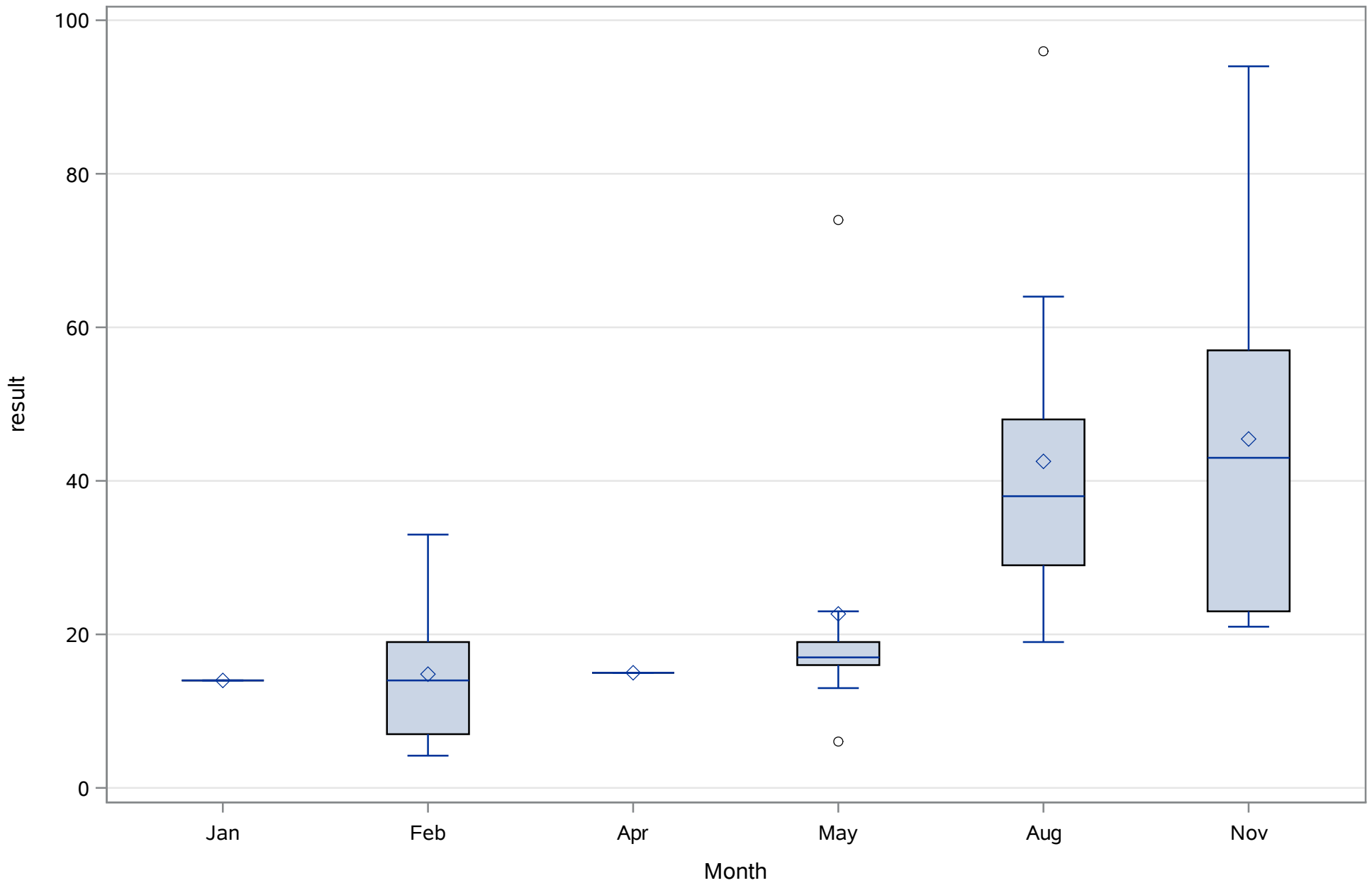
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
CHLA_cor_ugl



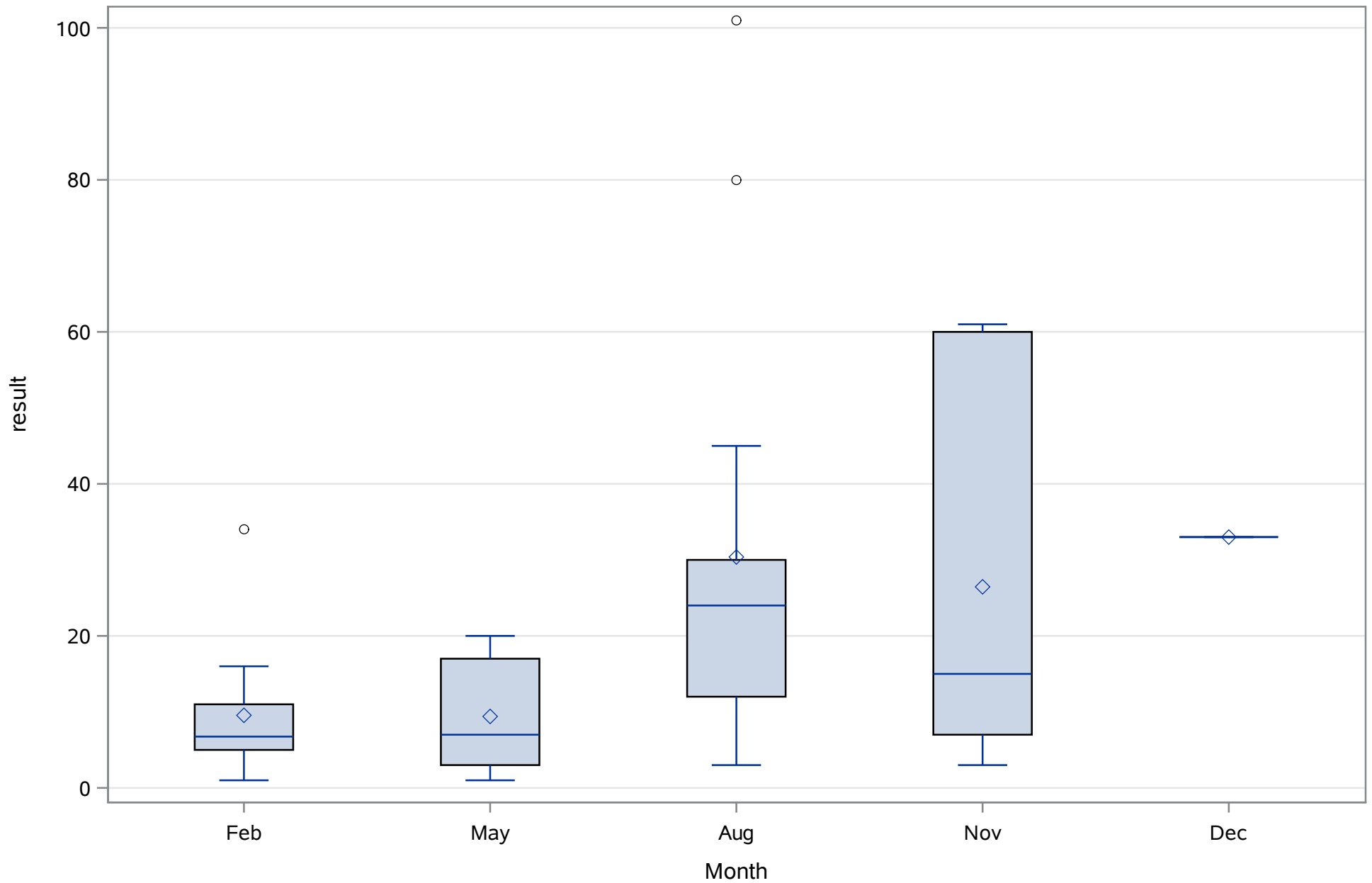
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
DO_mgL



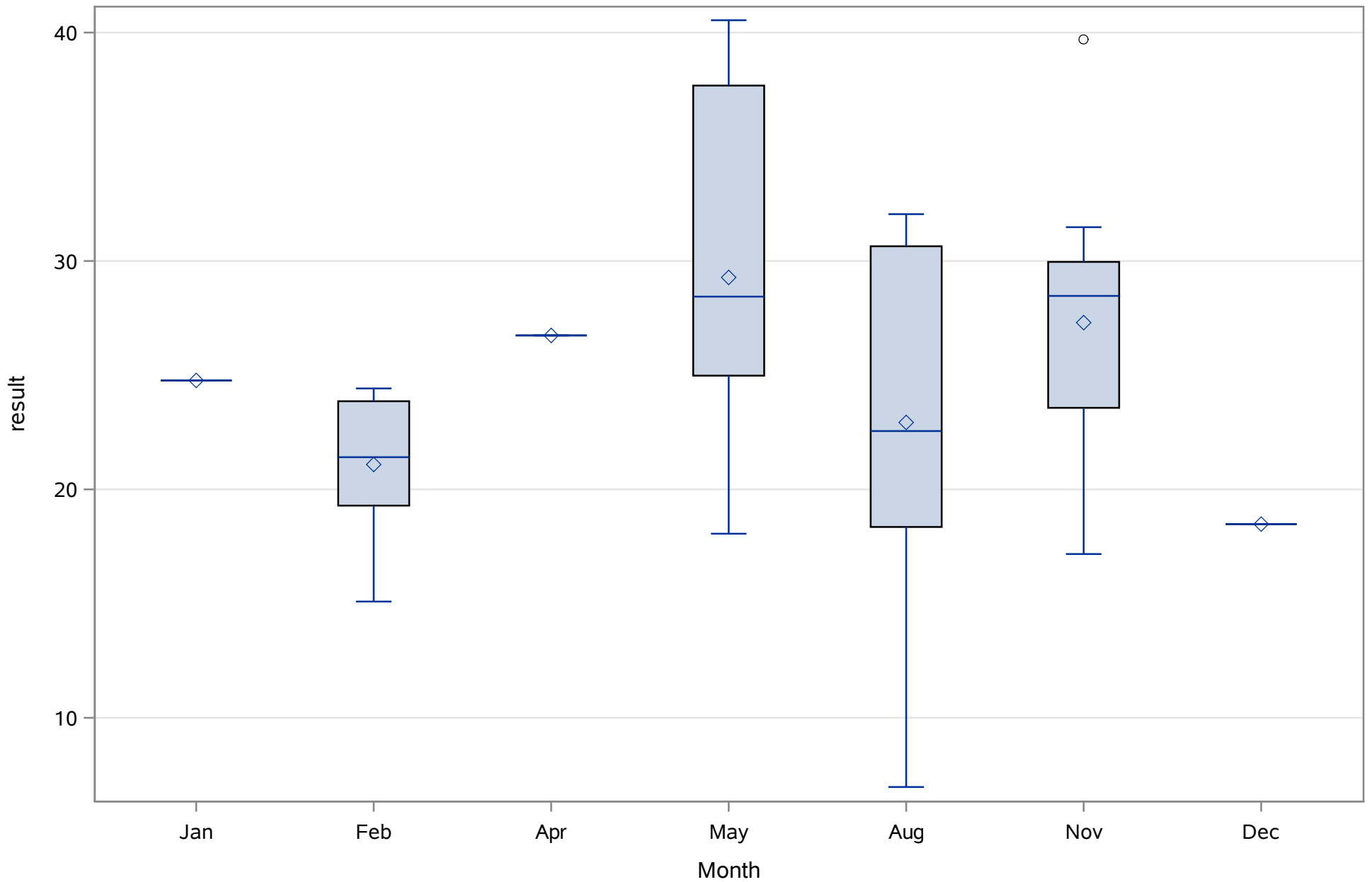
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NH4_ugl



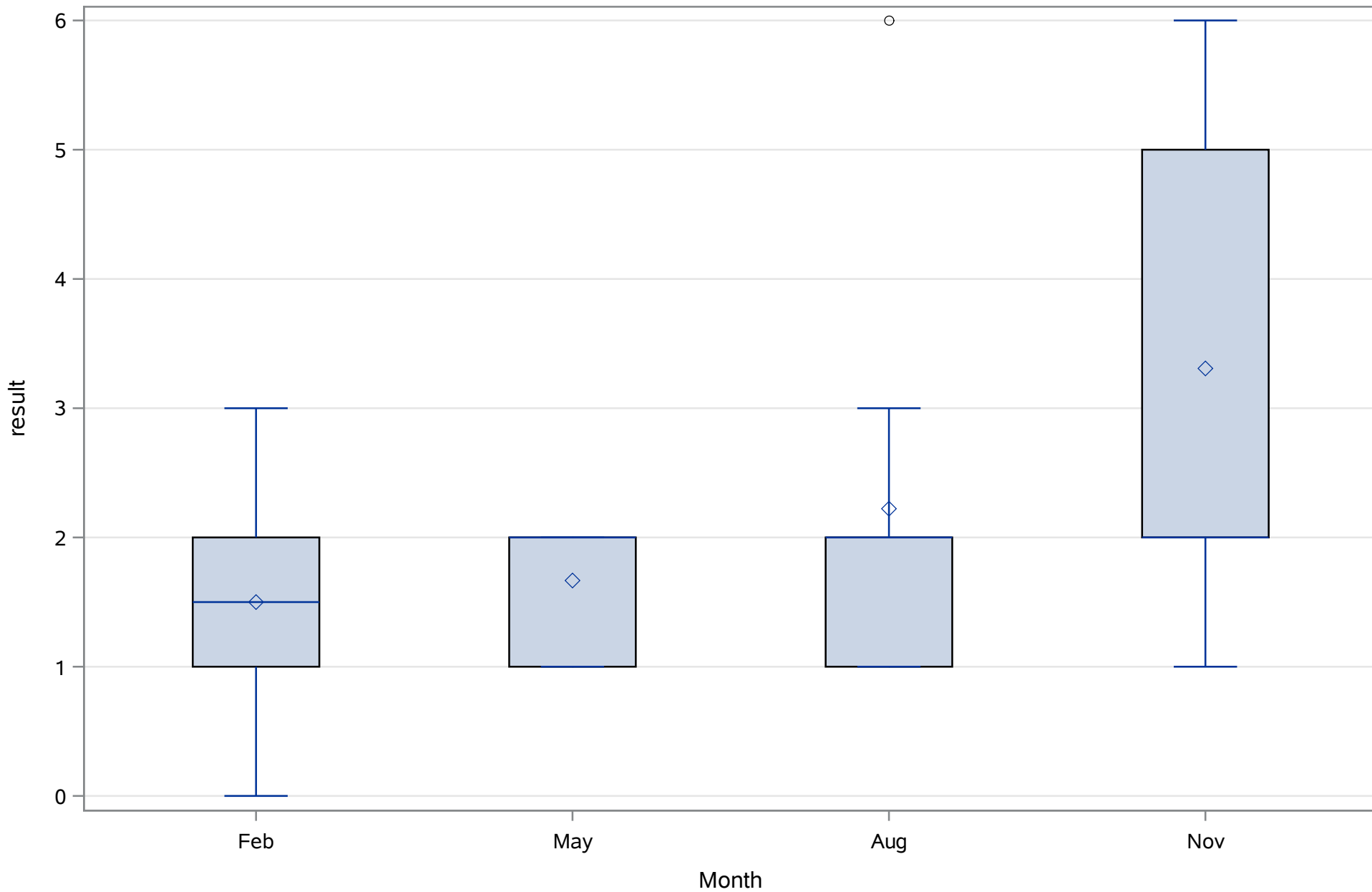
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
NO3_ugL



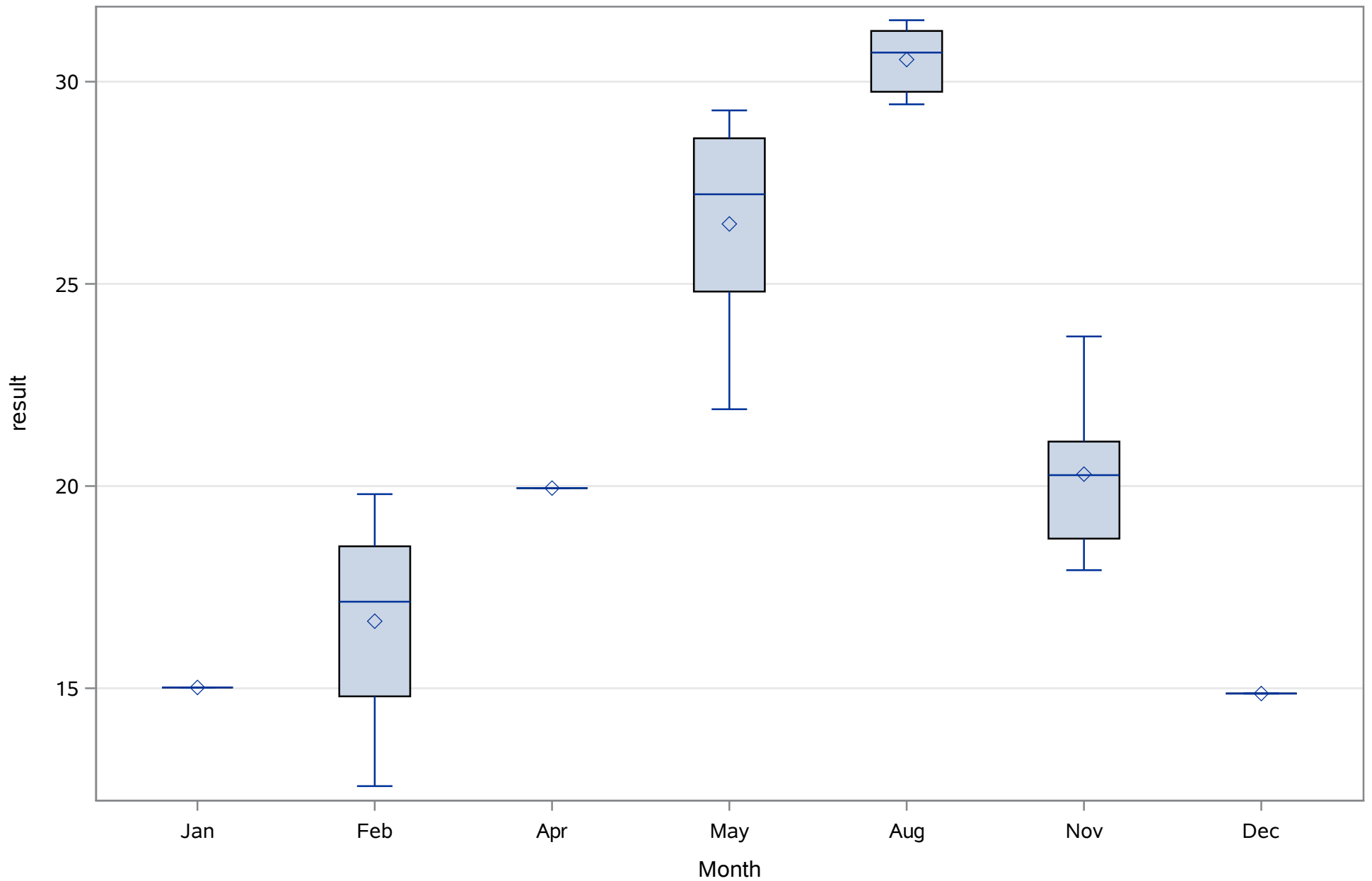
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SPCOND_mS_cm



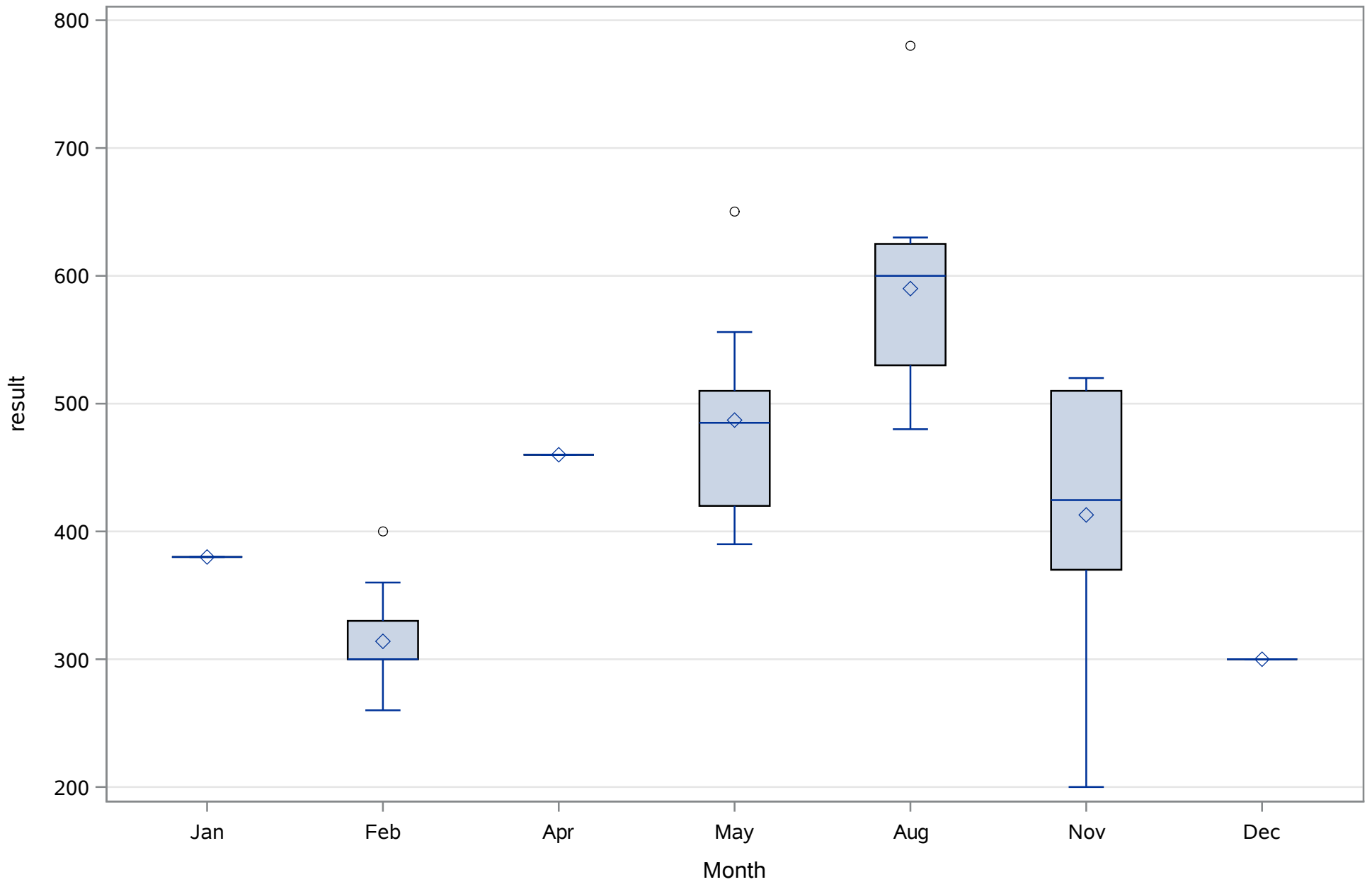
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
SRP_ugL



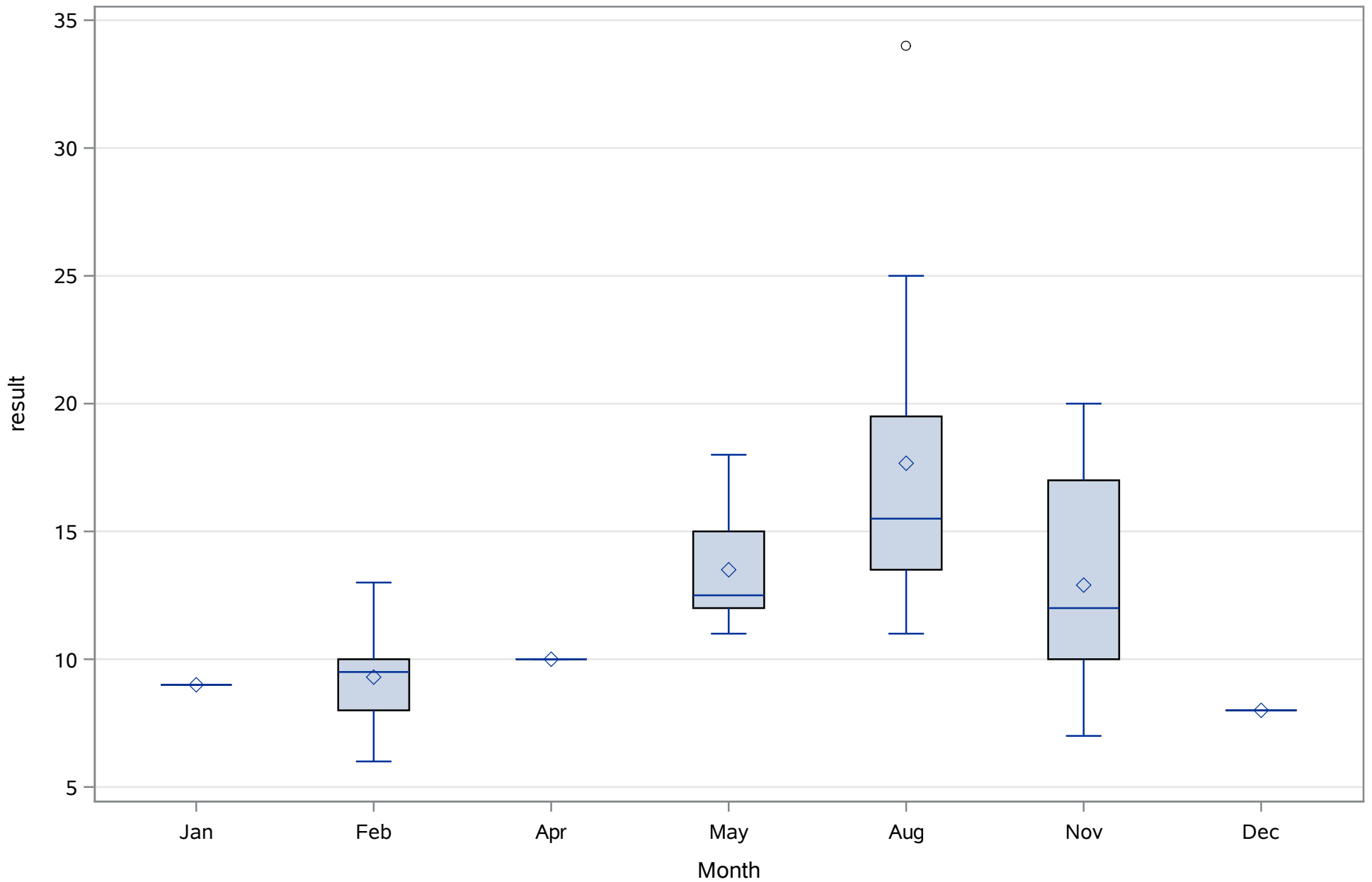
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TEMP_C



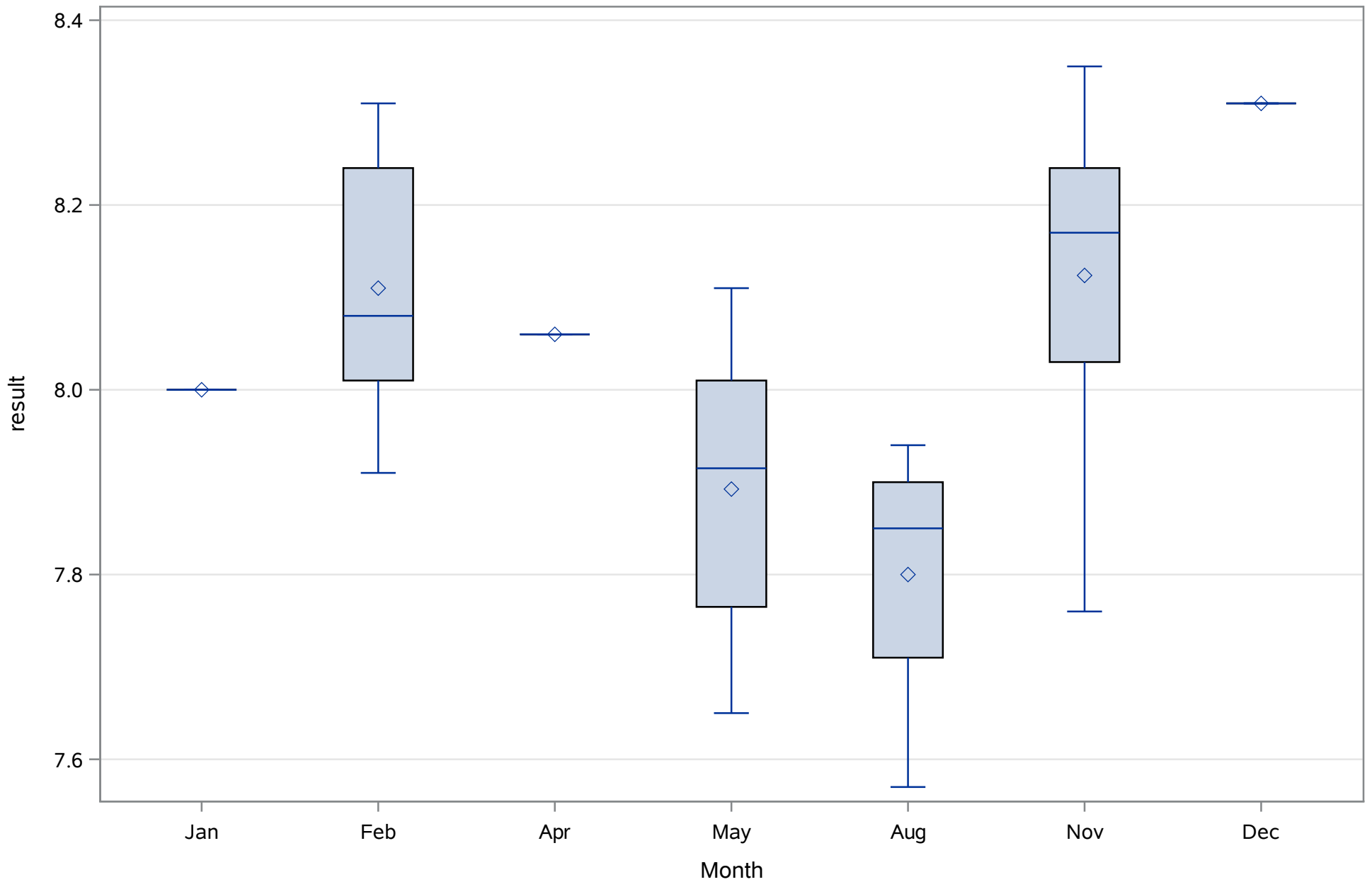
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TN_ugl



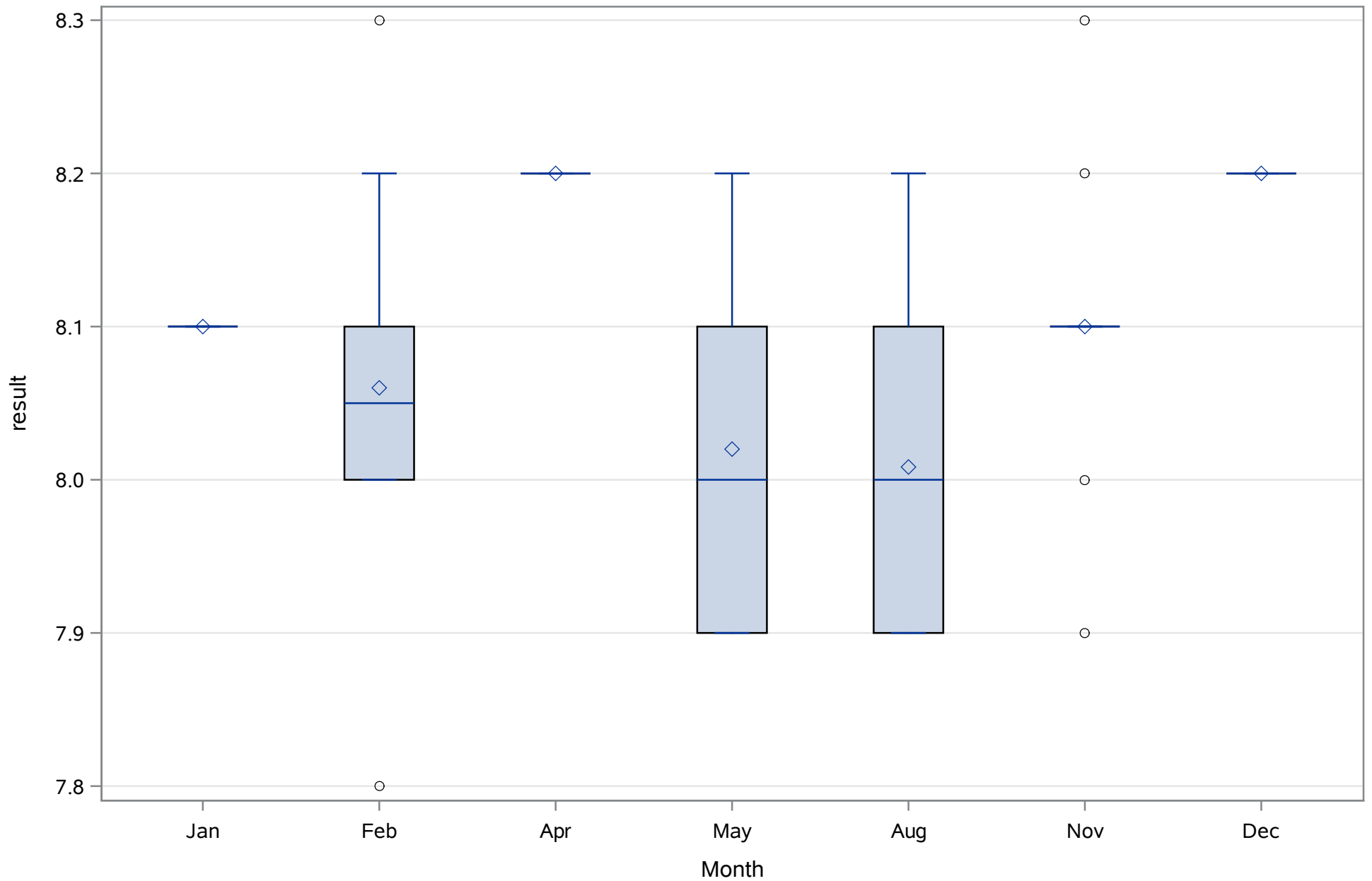
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 19
pH_Lab



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
ALK_tot_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_Uncor_ugL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
CHLA_cor_ugl		FEB2006	NOV2011	24	0.0%	0.0%	0.0%
COLOR_PtCo		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
DO_mgL		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
NH4_ugl		AUG1998	NOV2011	44	0.0%	0.0%	0.0%
NO3_ugL		NOV1998	NOV2011	45	0.0%	0.0%	0.0%
SAL_Perc		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SPCOND_mS_cm		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
SRP_ugL		NOV1998	NOV2011	36	0.0%	0.0%	0.0%
TEMP_C		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TN_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
TP_ugl		AUG1998	NOV2011	45	0.0%	0.0%	0.0%
pH_Field		FEB2003	NOV2011	36	0.0%	0.0%	0.0%
pH_Lab		AUG1998	NOV2011	45	0.0%	0.0%	0.0%

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
ALK_tot_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	156.688889	Sum Observations	7051
Std Deviation	10.485536	Variance	109.946465
Skewness	-0.1649551	Kurtosis	0.25922657
Uncorrected SS	1109651	Corrected SS	4837.64444
Coeff Variation	6.69194609	Std Error Mean	1.56309141

Basic Statistical Measures			
Location		Variability	
Mean	156.6889	Std Deviation	10.48554
Median	158.0000	Variance	109.94646
Mode	154.0000	Range	51.00000
		Interquartile Range	13.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	100.2429	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	182
99%	182
95%	171
90%	170
75% Q3	163
50% Median	158
25% Q1	150
10%	143
5%	139
1%	131
0% Min	131

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
ALK_tot_mgL

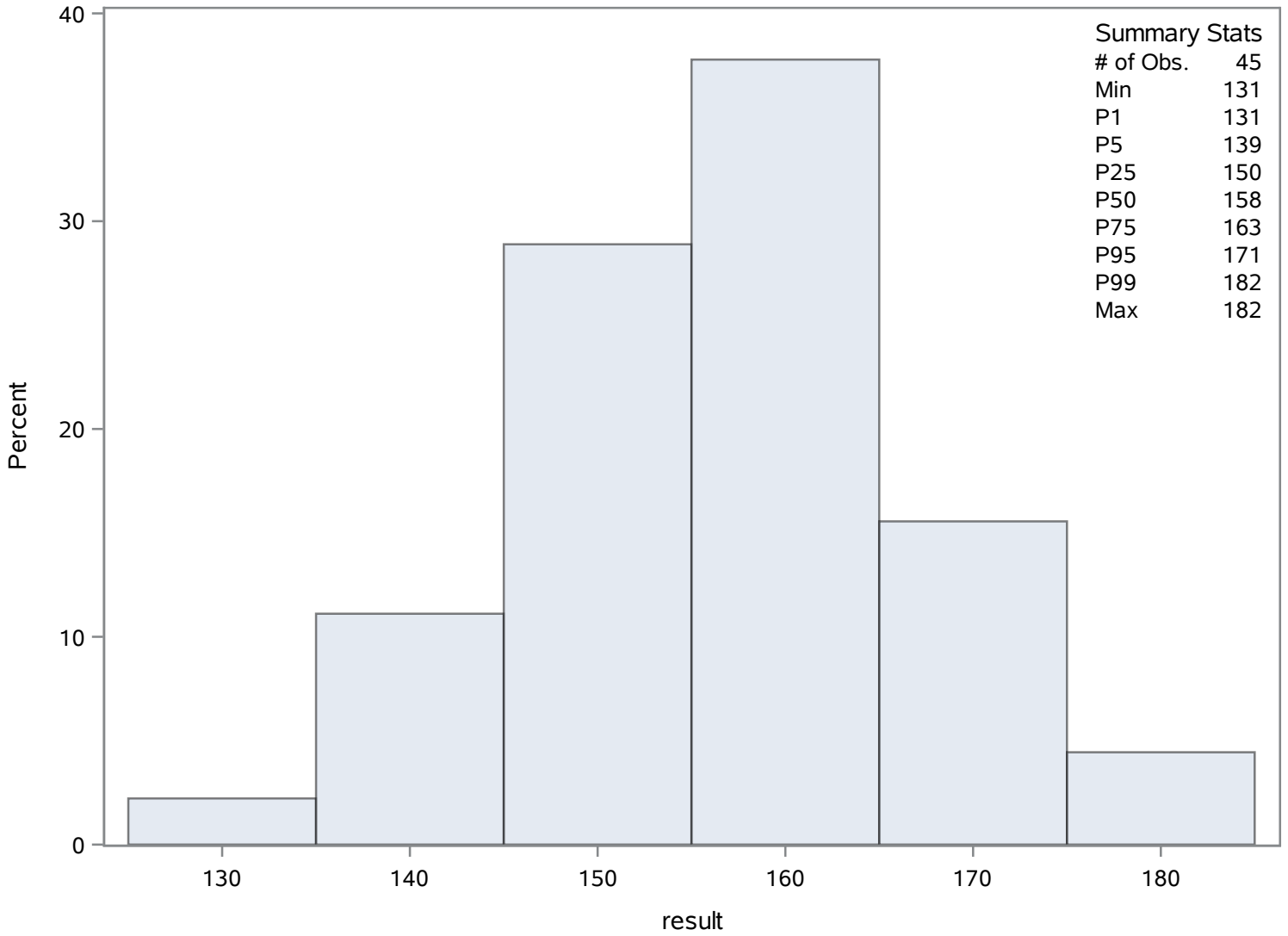
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
131	19	170	11
136	21	170	40
139	14	171	20
140	6	176	35
143	26	182	36

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
ALK_tot_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_Uncor_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	2.59115709	Sum Observations	116.602069
Std Deviation	2.57251299	Variance	6.61782309
Skewness	2.09373644	Kurtosis	4.28388051
Uncorrected SS	593.318493	Corrected SS	291.184216
Coeff Variation	99.2804721	Std Error Mean	0.38348759

Basic Statistical Measures			
Location		Variability	
Mean	2.591157	Std Deviation	2.57251
Median	1.600000	Variance	6.61782
Mode	1.300000	Range	12.00000
		Interquartile Range	1.65057

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	6.756821	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	12.100000
99%	12.100000
95%	8.900000
90%	6.900000
75% Q3	2.800000
50% Median	1.600000
25% Q1	1.149425
10%	0.700000
5%	0.505747
1%	0.100000
0% Min	0.100000

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_Uncor_ugL

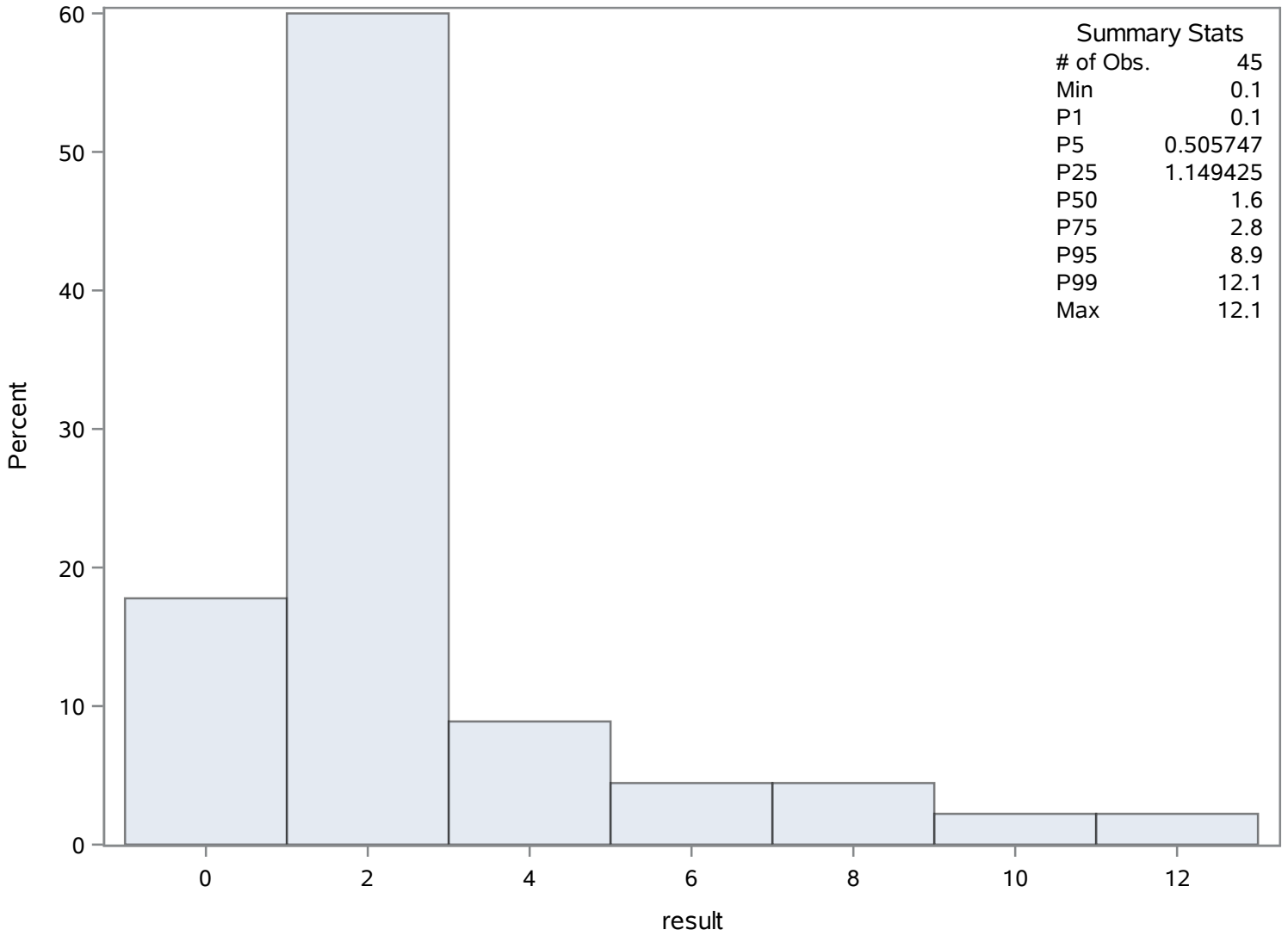
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.100000	66	6.90	46
0.390000	87	7.26	89
0.505747	70	8.90	57
0.551724	67	9.06	85
0.700000	48	12.10	58

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_Uncor_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	24	Sum Weights	24
Mean	1.84132117	Sum Observations	44.191708
Std Deviation	1.92550389	Variance	3.70756524
Skewness	2.04908408	Kurtosis	3.99954814
Uncorrected SS	166.645128	Corrected SS	85.2740005
Coeff Variation	104.571865	Std Error Mean	0.39304184

Basic Statistical Measures			
Location		Variability	
Mean	1.841321	Std Deviation	1.92550
Median	1.230344	Variance	3.70757
Mode	0.335172	Range	7.65000
		Interquartile Range	1.28397

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	4.684797	Pr > t 	0.0001
Sign	M	12	Pr >= M 	<.0001
Signed Rank	S	150	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.930000
99%	7.930000
95%	6.140000
90%	4.360000
75% Q3	1.955000
50% Median	1.230344
25% Q1	0.671034
10%	0.335172
5%	0.335172

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_cor_ugl

The UNIVARIATE Procedure
Variable: result

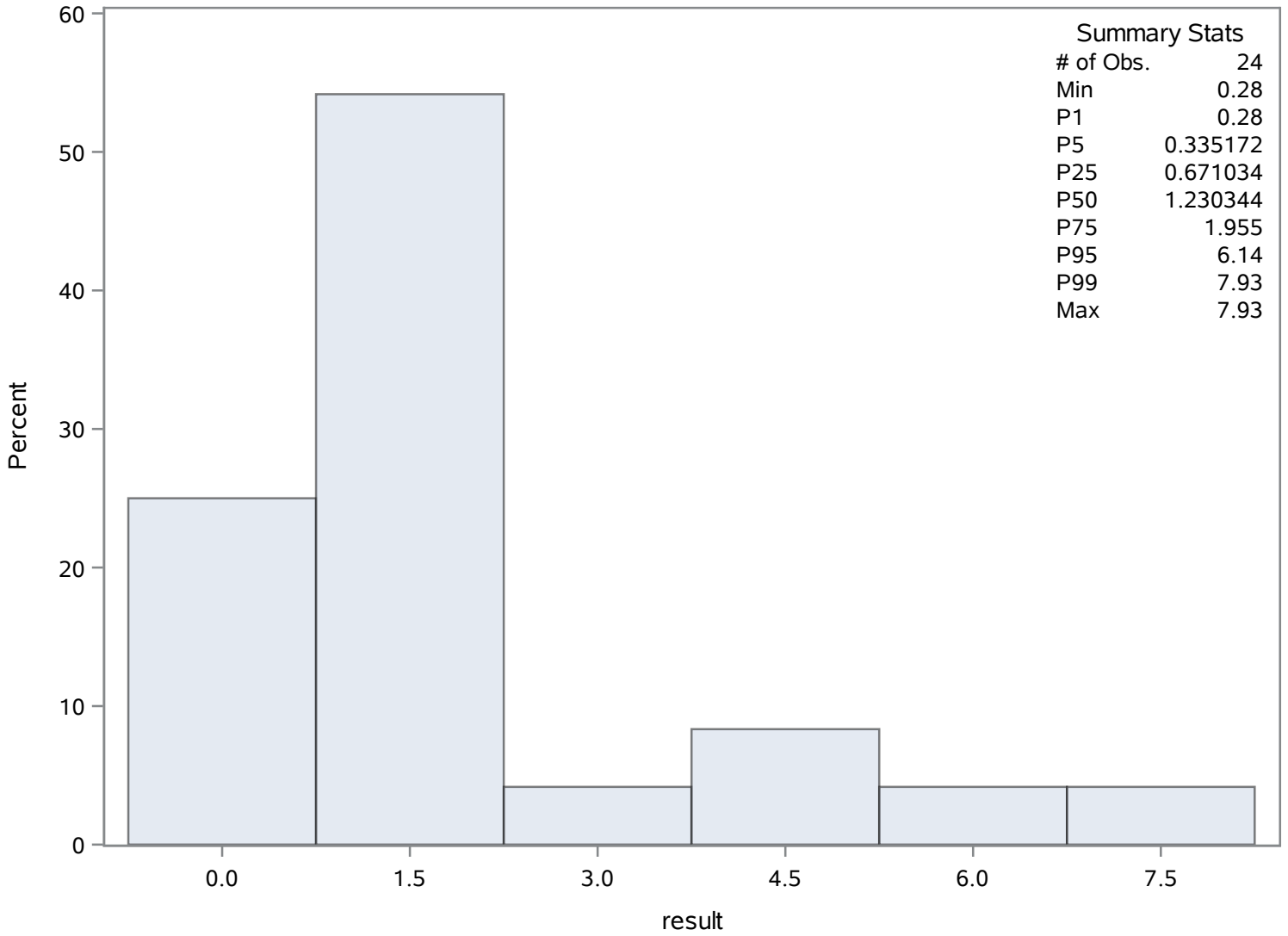
Quantiles (Definition 5)	
Level	Quantile
1%	0.280000
0% Min	0.280000

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.280000	111	2.35000	108
0.335172	94	4.02206	93
0.335172	91	4.36000	105
0.446896	99	6.14000	113
0.450000	103	7.93000	109

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_cor_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
COLOR_PtCo

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	21.177778	Sum Observations	953
Std Deviation	9.86566334	Variance	97.3313131
Skewness	2.43589788	Kurtosis	8.74470135
Uncorrected SS	24465	Corrected SS	4282.57778
Coeff Variation	46.584979	Std Error Mean	1.47068626

Basic Statistical Measures			
Location		Variability	
Mean	21.17778	Std Deviation	9.86566
Median	19.00000	Variance	97.33131
Mode	15.00000	Range	55.00000
		Interquartile Range	9.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	14.39993	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	66
99%	66
95%	36
90%	34
75% Q3	24
50% Median	19
25% Q1	15
10%	12
5%	12
1%	11
0% Min	11

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
COLOR_PtCo

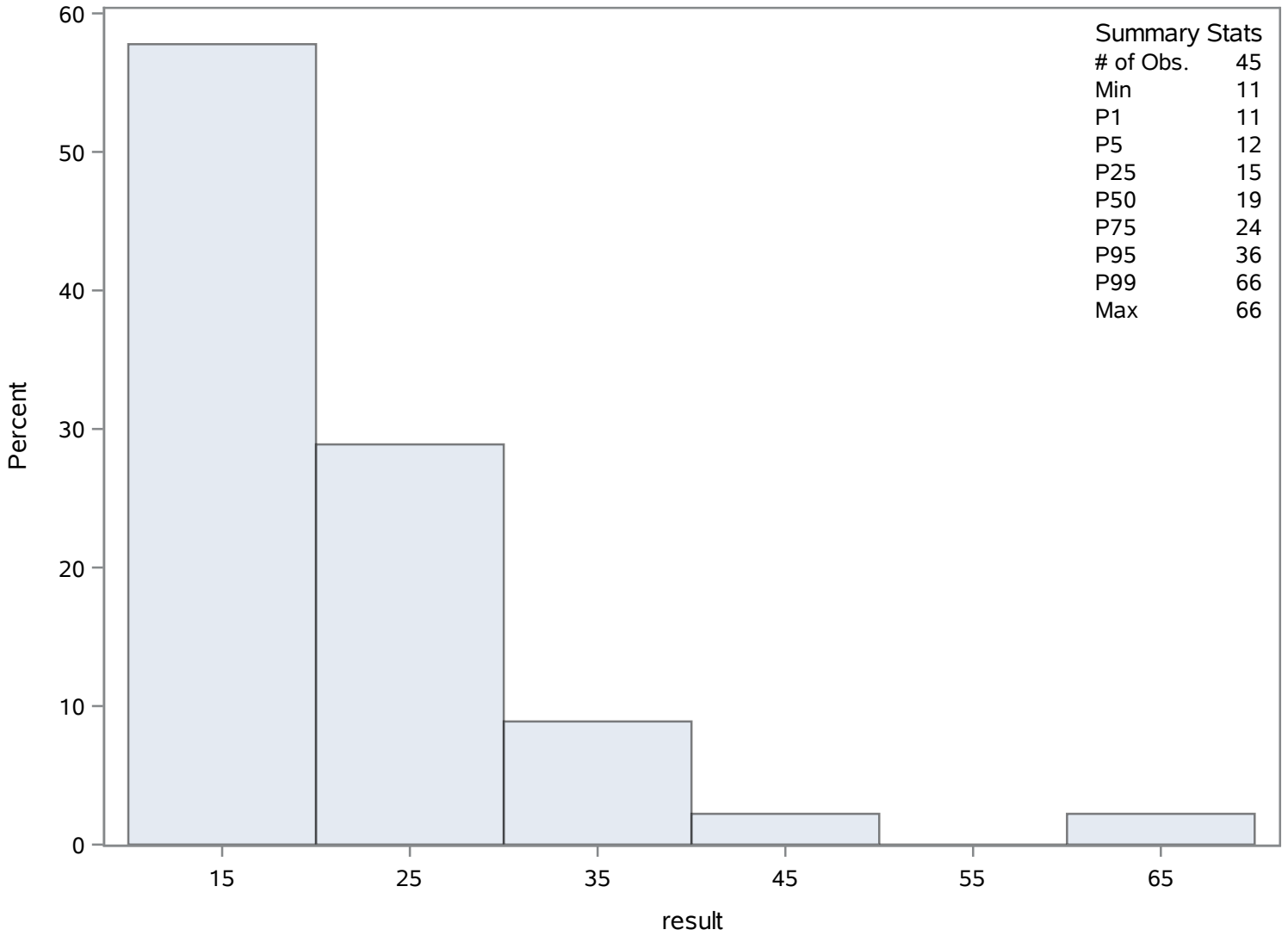
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11	121	34	134
12	156	34	150
12	148	36	154
12	140	40	115
12	128	66	126

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
COLOR_PtCo

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
DO_mgL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	6.97511111	Sum Observations	313.88
Std Deviation	1.75128345	Variance	3.06699374
Skewness	0.28618004	Kurtosis	-1.2336704
Uncorrected SS	2324.2956	Corrected SS	134.947724
Coeff Variation	25.1076066	Std Error Mean	0.26106592

Basic Statistical Measures			
Location		Variability	
Mean	6.975111	Std Deviation	1.75128
Median	6.630000	Variance	3.06699
Mode	4.300000	Range	5.75000
		Interquartile Range	3.28000

Note: The mode displayed is the smallest of 3 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.71782	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	10.05
99%	10.05
95%	9.80
90%	9.74
75% Q3	8.67
50% Median	6.63
25% Q1	5.39
10%	5.04
5%	4.60

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
DO_mgL

The UNIVARIATE Procedure
Variable: result

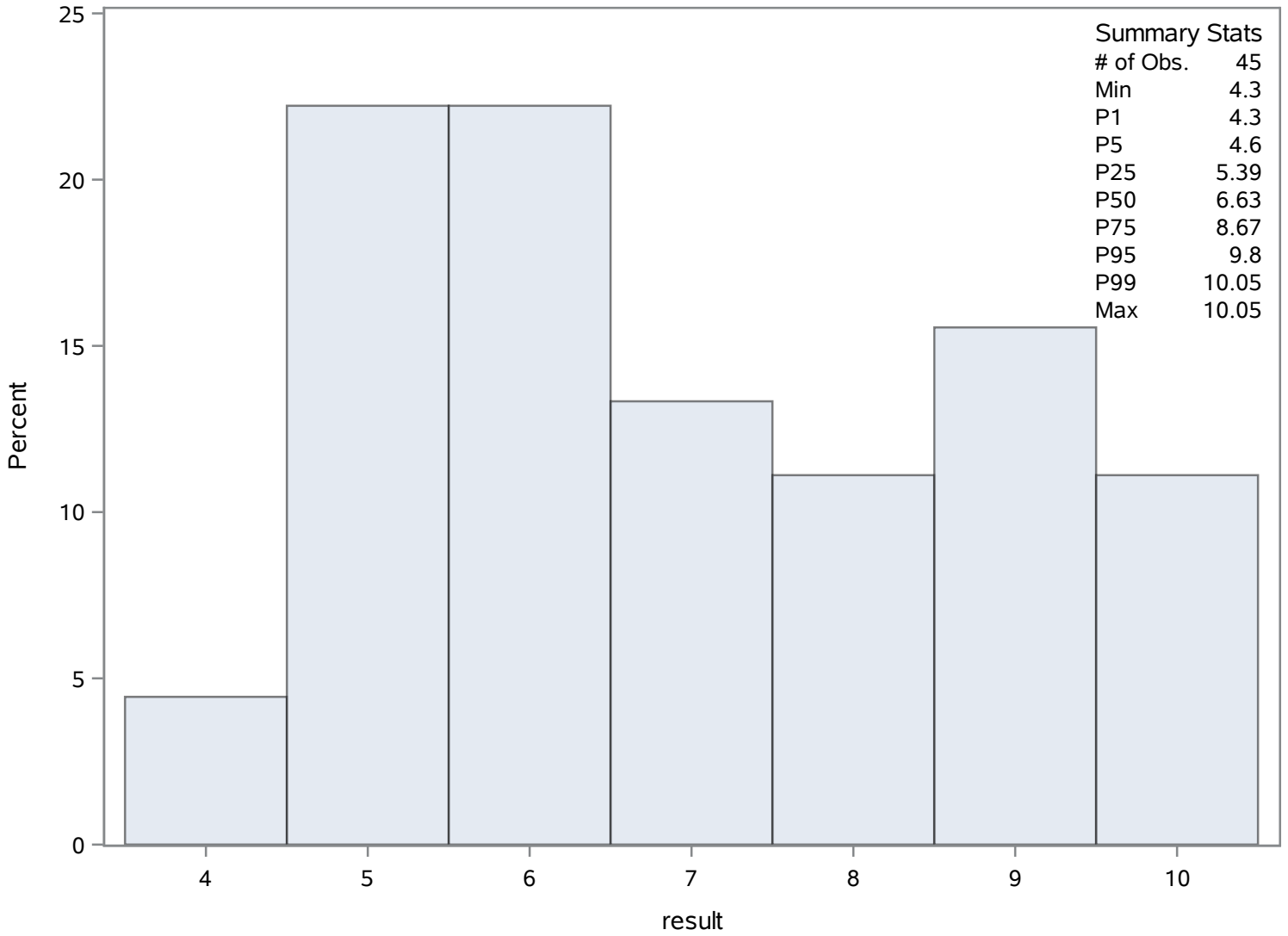
Quantiles (Definition 5)	
Level	Quantile
1%	4.30
0% Min	4.30

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.30	168	9.74	181
4.30	164	9.78	201
4.60	203	9.80	162
4.80	167	9.92	180
5.04	179	10.05	177

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
DO_mgL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NH4_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	44	Sum Weights	44
Mean	28.6977273	Sum Observations	1262.7
Std Deviation	20.3263317	Variance	413.159762
Skewness	1.21955716	Kurtosis	0.75410724
Uncorrected SS	54002.49	Corrected SS	17765.8698
Coeff Variation	70.8290644	Std Error Mean	3.06430981

Basic Statistical Measures			
Location		Variability	
Mean	28.69773	Std Deviation	20.32633
Median	21.00000	Variance	413.15976
Mode	15.00000	Range	84.00000
		Interquartile Range	20.50000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	9.365152	Pr > t 	<.0001
Sign	M	22	Pr >= M 	<.0001
Signed Rank	S	495	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	85.0
99%	85.0
95%	70.0
90%	61.0
75% Q3	35.5
50% Median	21.0
25% Q1	15.0
10%	10.0
5%	8.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NH4_ugl

The UNIVARIATE Procedure
Variable: result

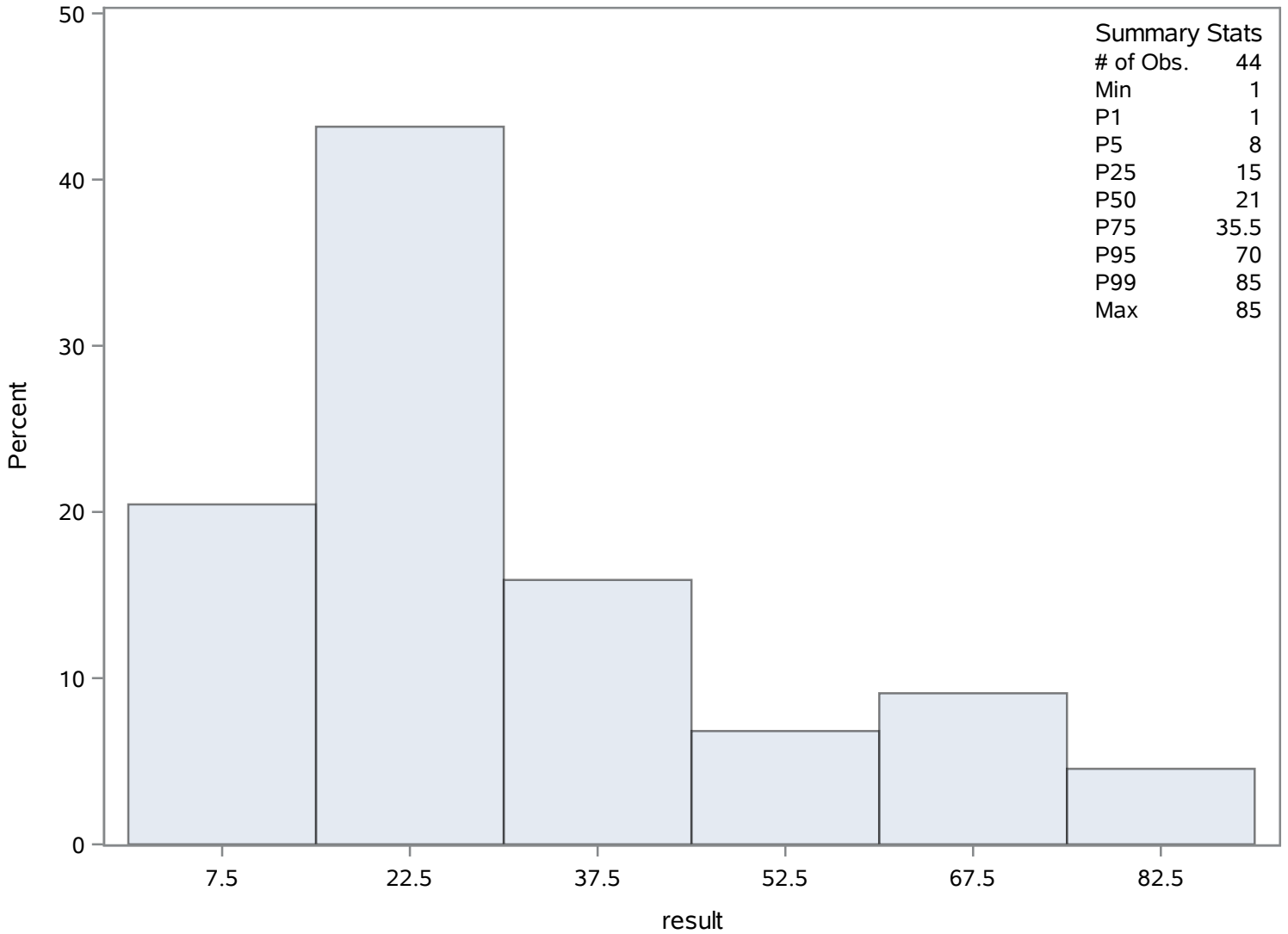
Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	214	61	209
6	227	61	233
8	242	70	206
8	208	79	210
10	219	85	205

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NH4_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NO3_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	13.7488889	Sum Observations	618.7
Std Deviation	15.6100583	Variance	243.673919
Skewness	3.20534282	Kurtosis	11.5800124
Uncorrected SS	19228.09	Corrected SS	10721.6524
Coeff Variation	113.536871	Std Error Mean	2.32701009

Basic Statistical Measures			
Location		Variability	
Mean	13.74889	Std Deviation	15.61006
Median	10.00000	Variance	243.67392
Mode	3.00000	Range	79.00000
		Interquartile Range	12.30000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	5.908392	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	80.0
99%	80.0
95%	34.0
90%	21.0
75% Q3	17.0
50% Median	10.0
25% Q1	4.7
10%	2.0
5%	2.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NO3_ugL

The UNIVARIATE Procedure
Variable: result

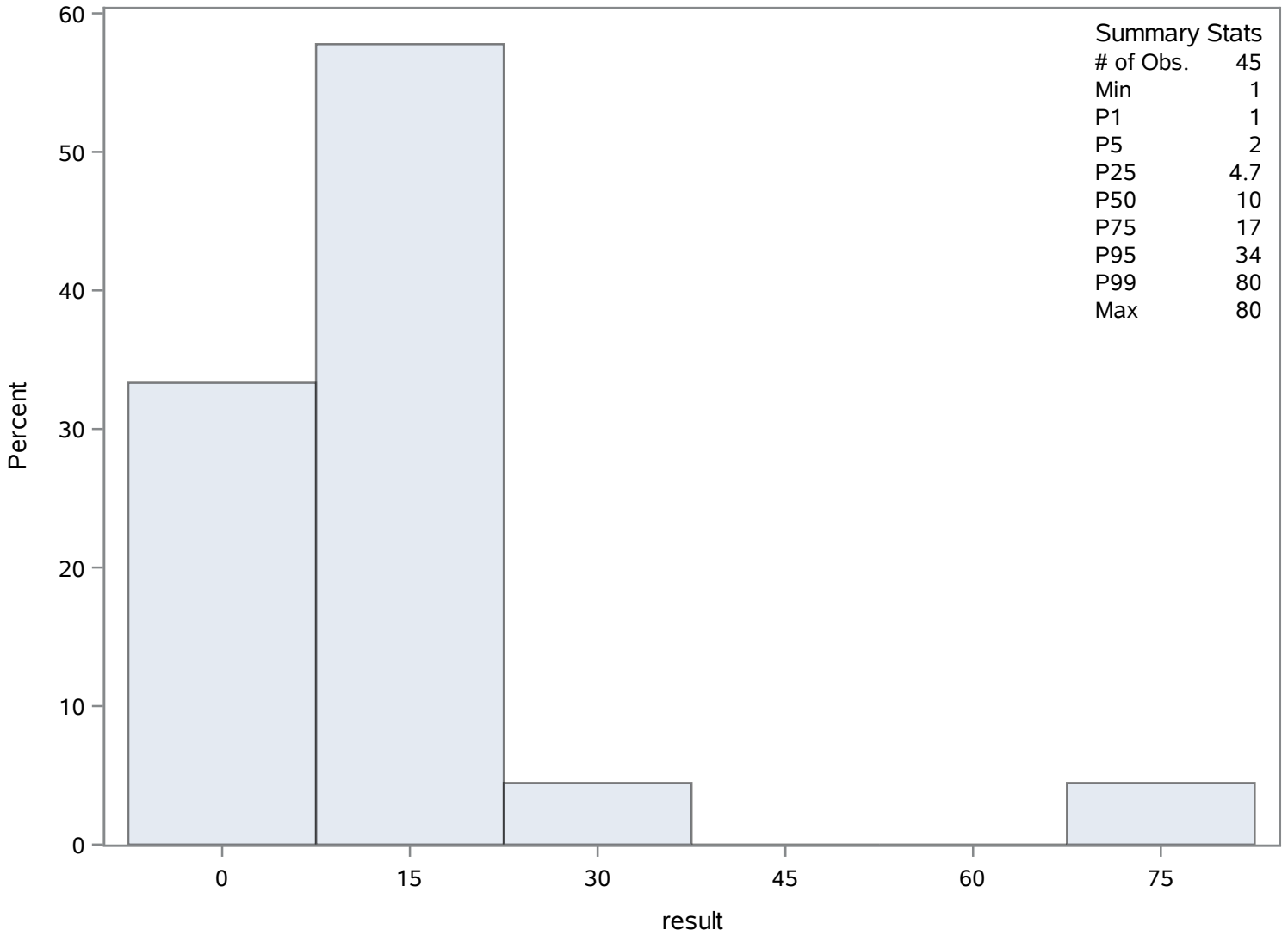
Quantiles (Definition 5)	
Level	Quantile
1%	1.0
0% Min	1.0

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	250	21	270
2	287	24	269
2	286	34	249
2	281	75	266
2	280	80	257

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NO3_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SAL_Perc

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	17.1097778	Sum Observations	769.94
Std Deviation	4.45164397	Variance	19.817134
Skewness	-0.0014228	Kurtosis	0.59394032
Uncorrected SS	14045.4562	Corrected SS	871.953898
Coeff Variation	26.0181285	Std Error Mean	0.6636119

Basic Statistical Measures			
Location		Variability	
Mean	17.10978	Std Deviation	4.45164
Median	17.24000	Variance	19.81713
Mode	.	Range	22.39000
		Interquartile Range	5.67000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	25.78281	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	27.21
99%	27.21
95%	25.37
90%	22.30
75% Q3	19.91
50% Median	17.24
25% Q1	14.24
10%	12.03
5%	10.30
1%	4.82
0% Min	4.82

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SAL_Perc

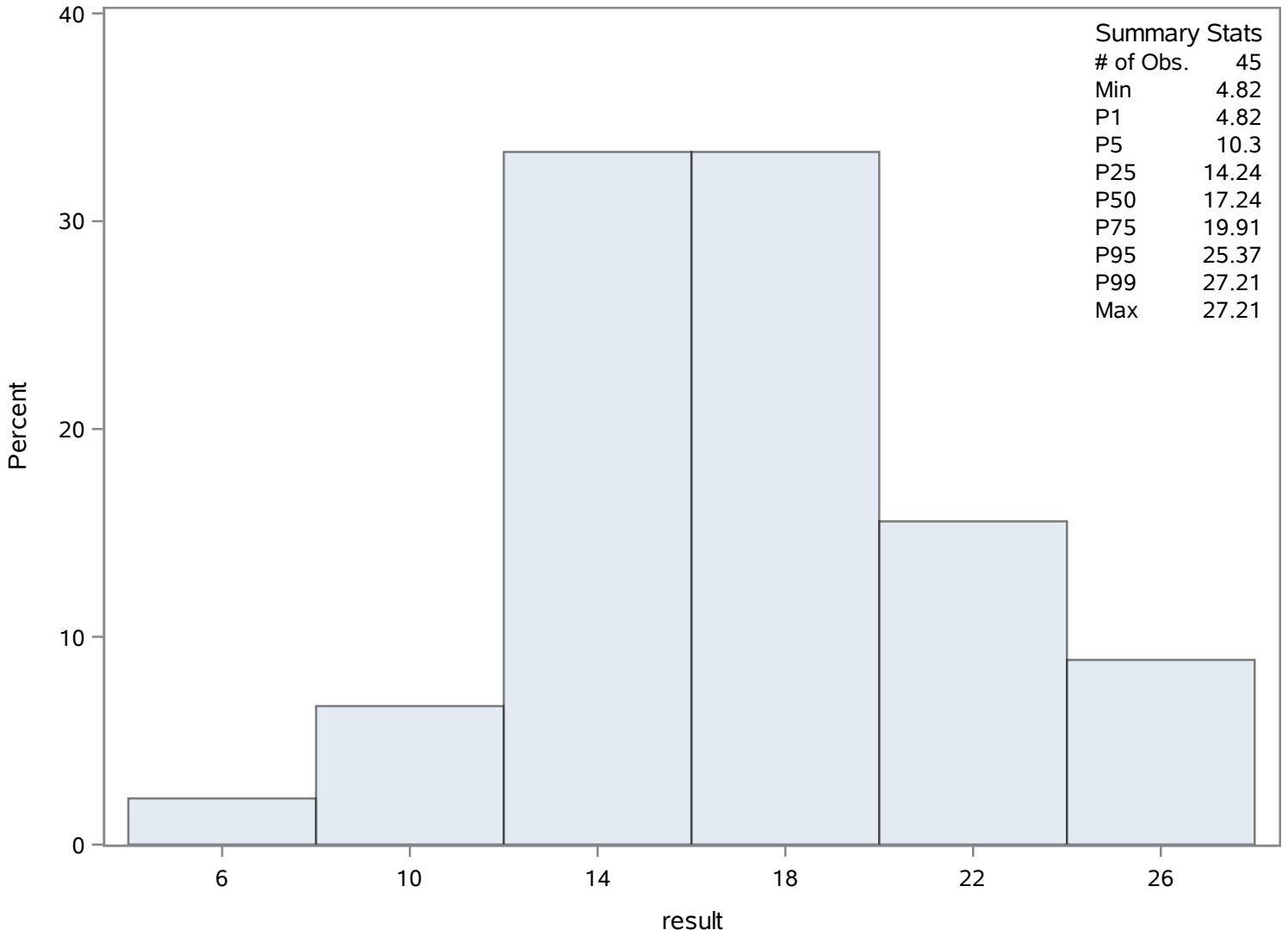
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.82	305	22.30	299
9.66	313	25.30	297
10.30	294	25.37	330
11.89	303	25.40	301
12.03	332	27.21	320

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SAL_Perc

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SPCOND_mS_cm

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	27.6615556	Sum Observations	1244.77
Std Deviation	6.95637476	Variance	48.3911498
Skewness	-0.274411	Kurtosis	0.58119792
Uncorrected SS	36561.4851	Corrected SS	2129.21059
Coeff Variation	25.1481691	Std Error Mean	1.03699512

Basic Statistical Measures			
Location		Variability	
Mean	27.66156	Std Deviation	6.95637
Median	27.94000	Variance	48.39115
Mode	.	Range	33.59000
		Interquartile Range	8.57000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	26.67472	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	42.31
99%	42.31
95%	39.85
90%	35.39
75% Q3	32.15
50% Median	27.94
25% Q1	23.58
10%	20.27
5%	16.59
1%	8.72
0% Min	8.72

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SPCOND_mS_cm

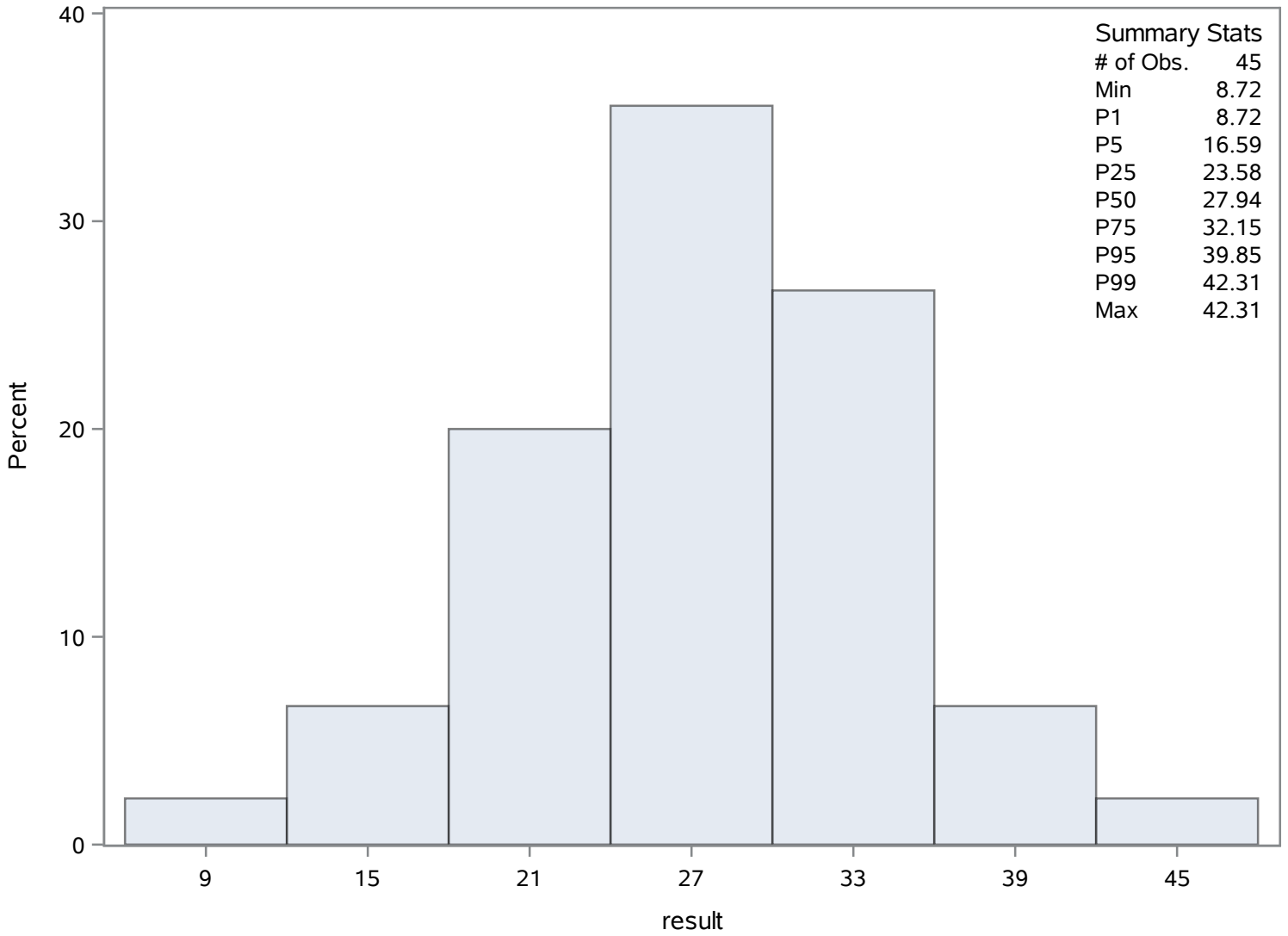
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.72	350	35.39	344
12.66	339	39.69	375
16.59	358	39.85	342
16.75	348	39.87	346
20.27	377	42.31	365

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SPCOND_mS_cm

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SRP_ugL

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	1.83333333	Sum Observations	66
Std Deviation	1.87464282	Variance	3.51428571
Skewness	1.85362905	Kurtosis	2.88919923
Uncorrected SS	244	Corrected SS	123
Coeff Variation	102.253245	Std Error Mean	0.31244047

Basic Statistical Measures			
Location		Variability	
Mean	1.833333	Std Deviation	1.87464
Median	1.000000	Variance	3.51429
Mode	1.000000	Range	7.00000
		Interquartile Range	1.50000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	5.867784	Pr > t 	<.0001
Sign	M	16	Pr >= M 	<.0001
Signed Rank	S	264	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.0
99%	7.0
95%	7.0
90%	4.0
75% Q3	2.5
50% Median	1.0
25% Q1	1.0
10%	0.0
5%	0.0
1%	0.0
0% Min	0.0

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SRP_ugL

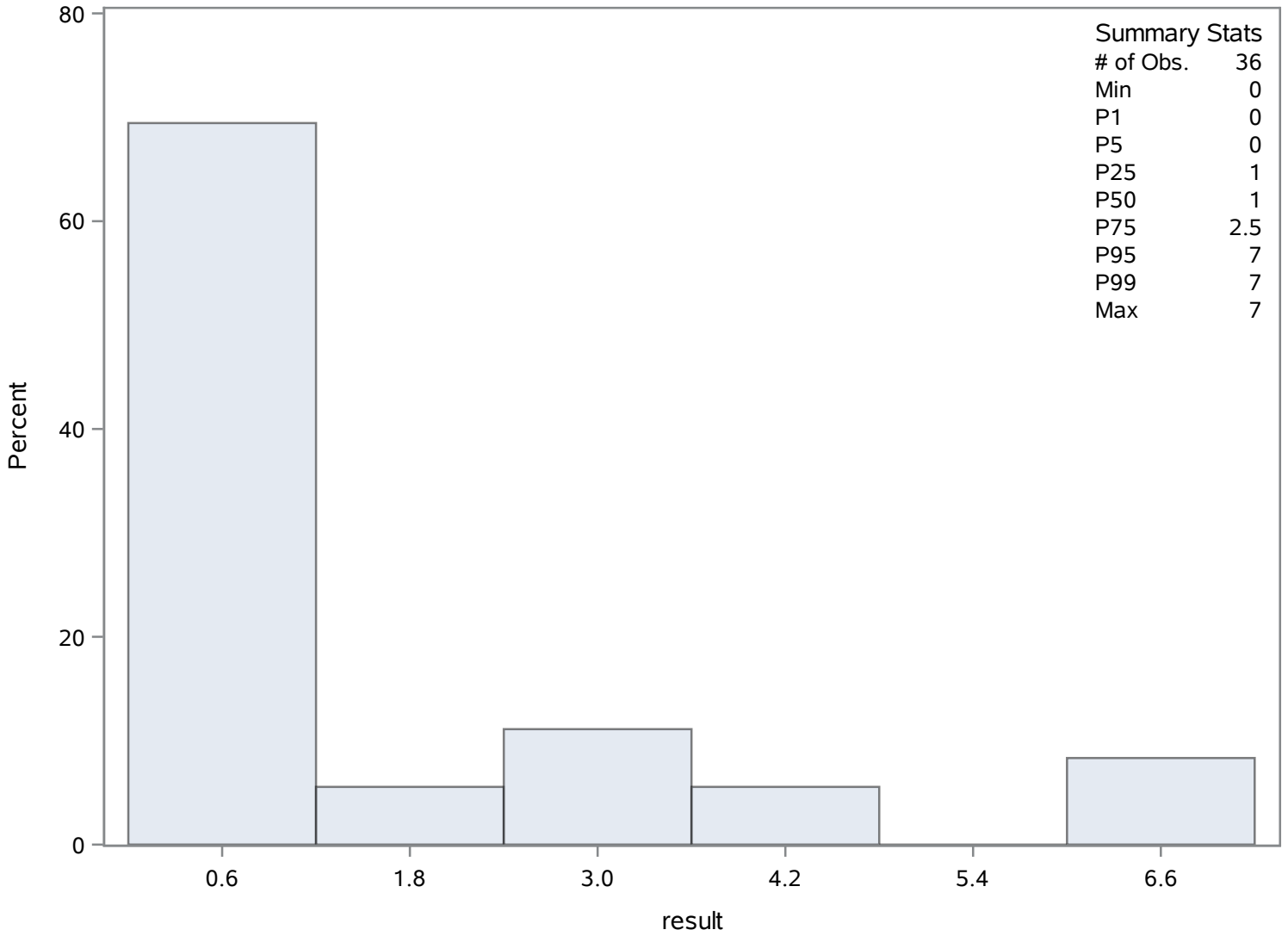
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	399	4	410
0	398	4	411
0	397	7	391
0	394	7	402
1	417	7	403

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SRP_ugL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	23.3491111	Sum Observations	1050.71
Std Deviation	6.07208172	Variance	36.8701765
Skewness	-0.0499203	Kurtosis	-1.4502637
Uncorrected SS	26155.4323	Corrected SS	1622.28776
Coeff Variation	26.0056226	Std Error Mean	0.9051725

Basic Statistical Measures			
Location		Variability	
Mean	23.34911	Std Deviation	6.07208
Median	22.39000	Variance	36.87018
Mode	.	Range	19.36000
		Interquartile Range	10.90000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	25.79521	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31.87
99%	31.87
95%	31.35
90%	31.14
75% Q3	29.30
50% Median	22.39
25% Q1	18.40
10%	14.89
5%	14.50
1%	12.51
0% Min	12.51

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TEMP_C

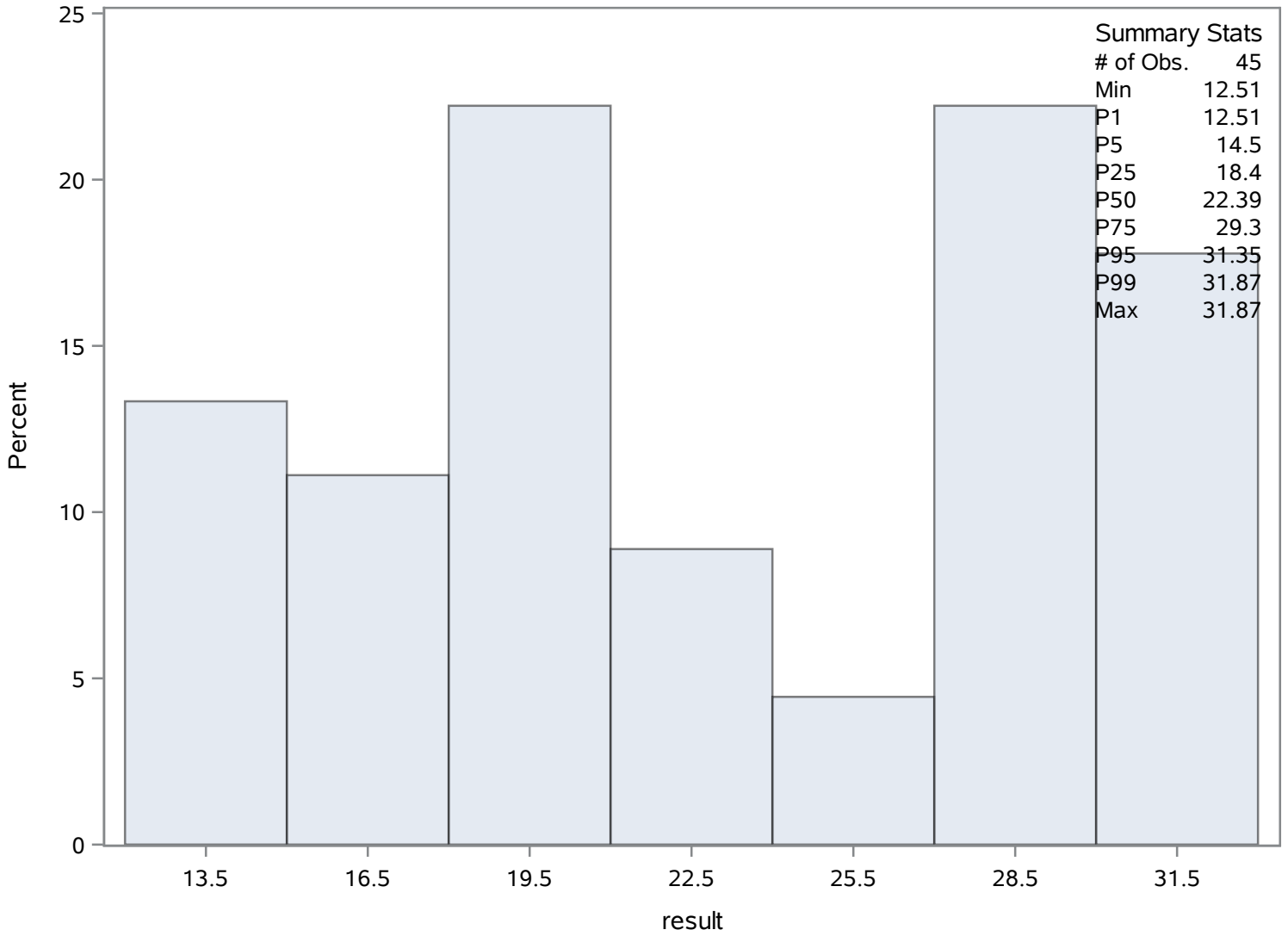
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.51	457	31.14	455
14.41	440	31.30	420
14.50	437	31.35	459
14.79	461	31.68	447
14.89	453	31.87	443

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TN_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	467.333333	Sum Observations	21030
Std Deviation	129.272967	Variance	16711.5
Skewness	0.02993088	Kurtosis	-0.6628356
Uncorrected SS	10563326	Corrected SS	735306
Coeff Variation	27.6618332	Std Error Mean	19.2708761

Basic Statistical Measures			
Location		Variability	
Mean	467.3333	Std Deviation	129.27297
Median	470.0000	Variance	16712
Mode	340.0000	Range	550.00000
		Interquartile Range	217.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	24.25076	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	730
99%	730
95%	660
90%	640
75% Q3	567
50% Median	470
25% Q1	350
10%	310
5%	280
1%	180
0% Min	180

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TN_ugl

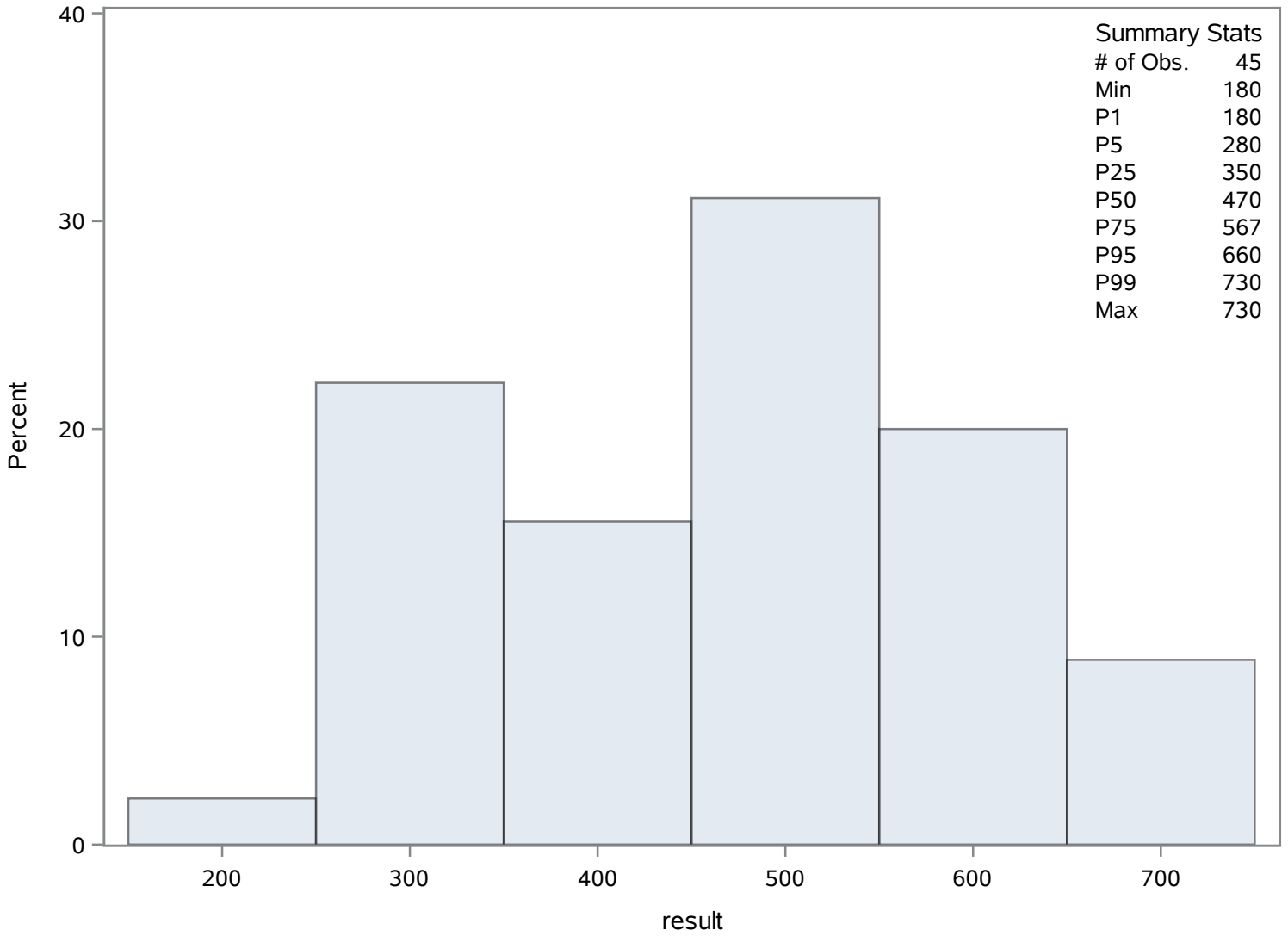
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
180	481	640	504
270	506	650	492
280	486	660	508
280	474	710	477
310	490	730	465

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TN_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TP_ugl

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	11.6444444	Sum Observations	524
Std Deviation	4.36491984	Variance	19.0525253
Skewness	2.28003705	Kurtosis	8.17539409
Uncorrected SS	6940	Corrected SS	838.311111
Coeff Variation	37.4849987	Std Error Mean	0.65068383

Basic Statistical Measures			
Location		Variability	
Mean	11.64444	Std Deviation	4.36492
Median	11.00000	Variance	19.05253
Mode	10.00000	Range	26.00000
		Interquartile Range	4.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	17.8957	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	31
99%	31
95%	17
90%	16
75% Q3	13
50% Median	11
25% Q1	9
10%	8
5%	7
1%	5
0% Min	5

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TP_ugl

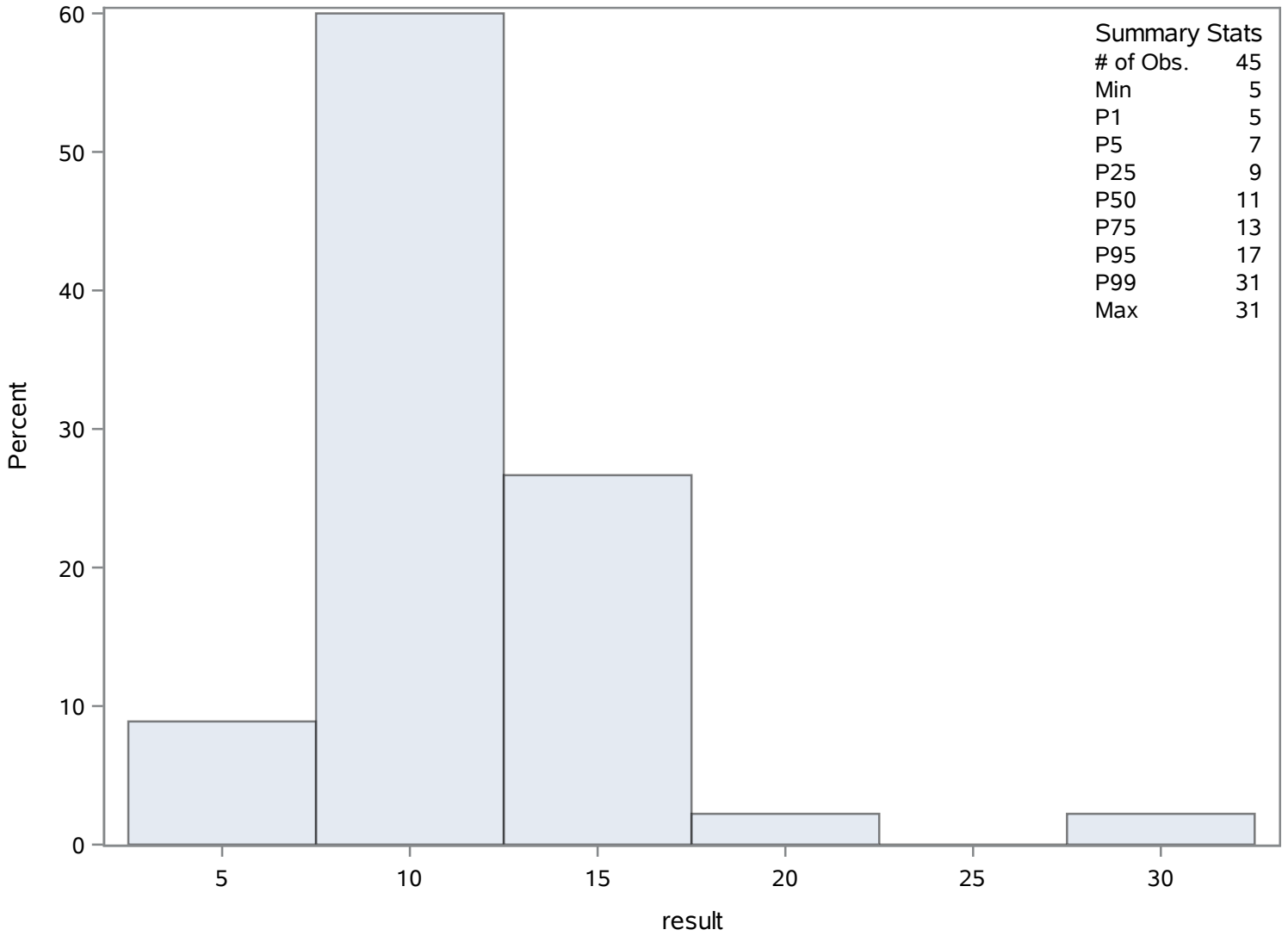
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	551	16	522
7	539	16	549
7	535	17	545
7	530	22	510
8	543	31	521

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TP_ugl

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Field

The UNIVARIATE Procedure
Variable: result

Moments			
N	36	Sum Weights	36
Mean	8.02277778	Sum Observations	288.82
Std Deviation	0.21306754	Variance	0.04539778
Skewness	-0.3448926	Kurtosis	-0.7582564
Uncorrected SS	2318.7276	Corrected SS	1.58892222
Coeff Variation	2.65578268	Std Error Mean	0.03551126

Basic Statistical Measures			
Location		Variability	
Mean	8.022778	Std Deviation	0.21307
Median	8.010000	Variance	0.04540
Mode	7.980000	Range	0.76000
		Interquartile Range	0.32000

Note: The mode displayed is the smallest of 6 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	225.9221	Pr > t 	<.0001
Sign	M	18	Pr >= M 	<.0001
Signed Rank	S	333	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.370
99%	8.370
95%	8.350
90%	8.270
75% Q3	8.205
50% Median	8.010
25% Q1	7.885
10%	7.680
5%	7.620

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Field

The UNIVARIATE Procedure
Variable: result

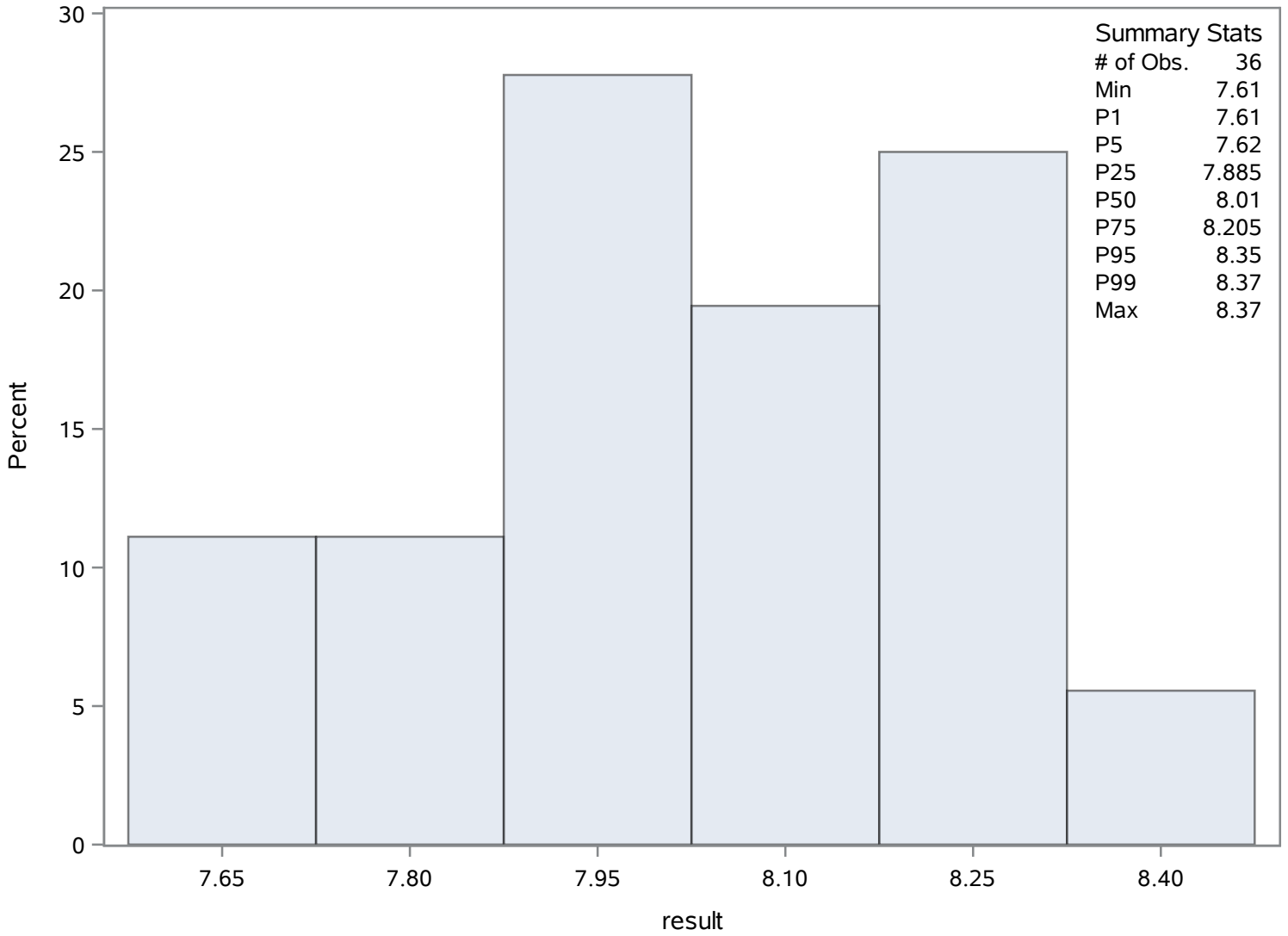
Quantiles (Definition 5)	
Level	Quantile
1%	7.610
0% Min	7.610

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.61	565	8.27	582
7.62	576	8.27	590
7.63	585	8.29	574
7.68	572	8.35	571
7.77	580	8.37	566

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Field

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Lab

The UNIVARIATE Procedure
Variable: result

Moments			
N	45	Sum Weights	45
Mean	8.1088889	Sum Observations	364.9
Std Deviation	0.12026906	Variance	0.01446465
Skewness	-0.2598138	Kurtosis	-1.027949
Uncorrected SS	2959.57	Corrected SS	0.63644444
Coeff Variation	1.48317557	Std Error Mean	0.01792865

Basic Statistical Measures			
Location		Variability	
Mean	8.108889	Std Deviation	0.12027
Median	8.100000	Variance	0.01446
Mode	8.200000	Range	0.40000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	452.2866	Pr > t 	<.0001
Sign	M	22.5	Pr >= M 	<.0001
Signed Rank	S	517.5	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.3
99%	8.3
95%	8.3
90%	8.2
75% Q3	8.2
50% Median	8.1
25% Q1	8.0
10%	7.9
5%	7.9
1%	7.9
0% Min	7.9

Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Lab

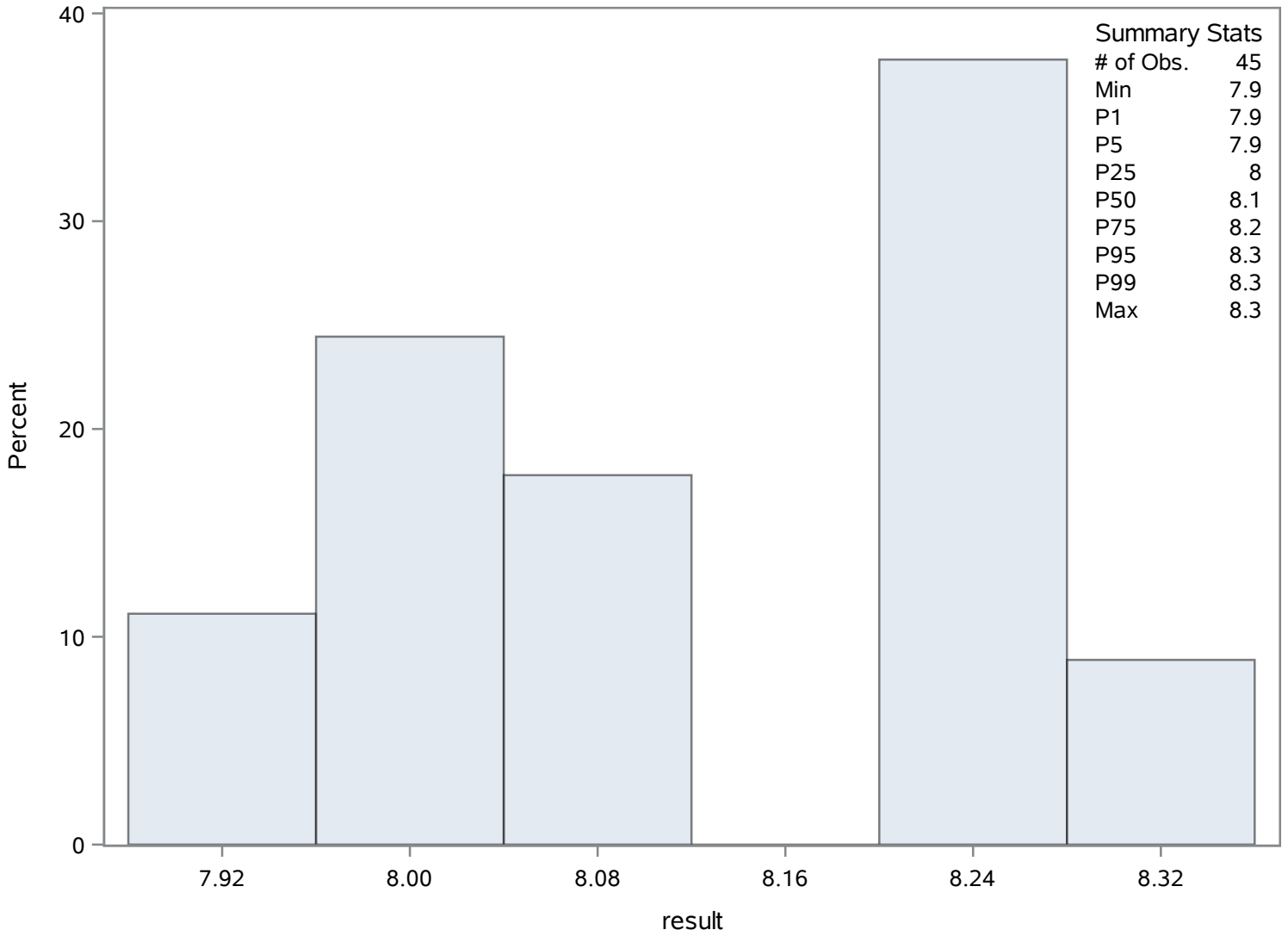
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.9	625	8.2	635
7.9	617	8.3	609
7.9	610	8.3	611
7.9	602	8.3	627
7.9	598	8.3	632

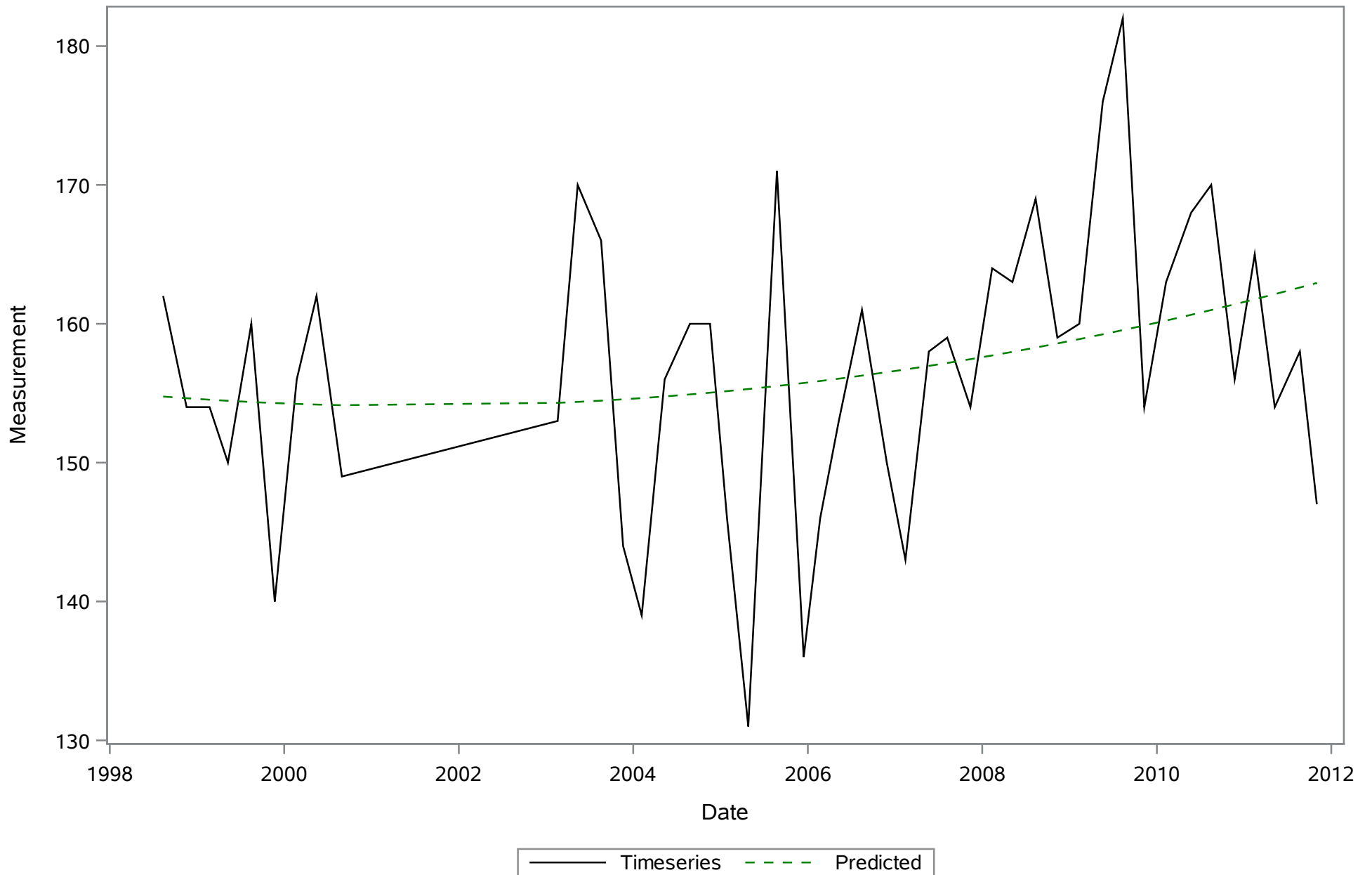
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Lab

The UNIVARIATE Procedure

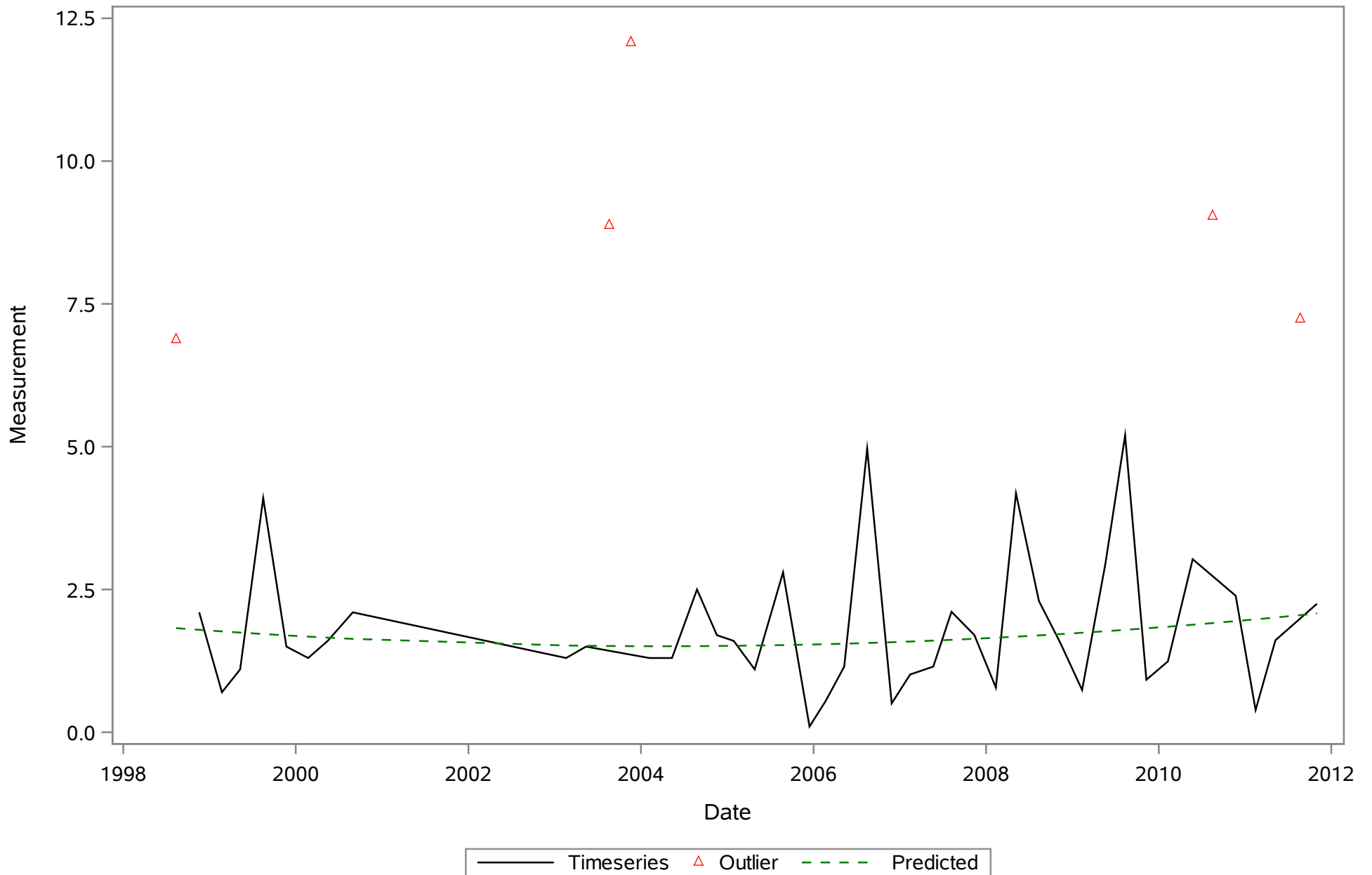
Distribution of result



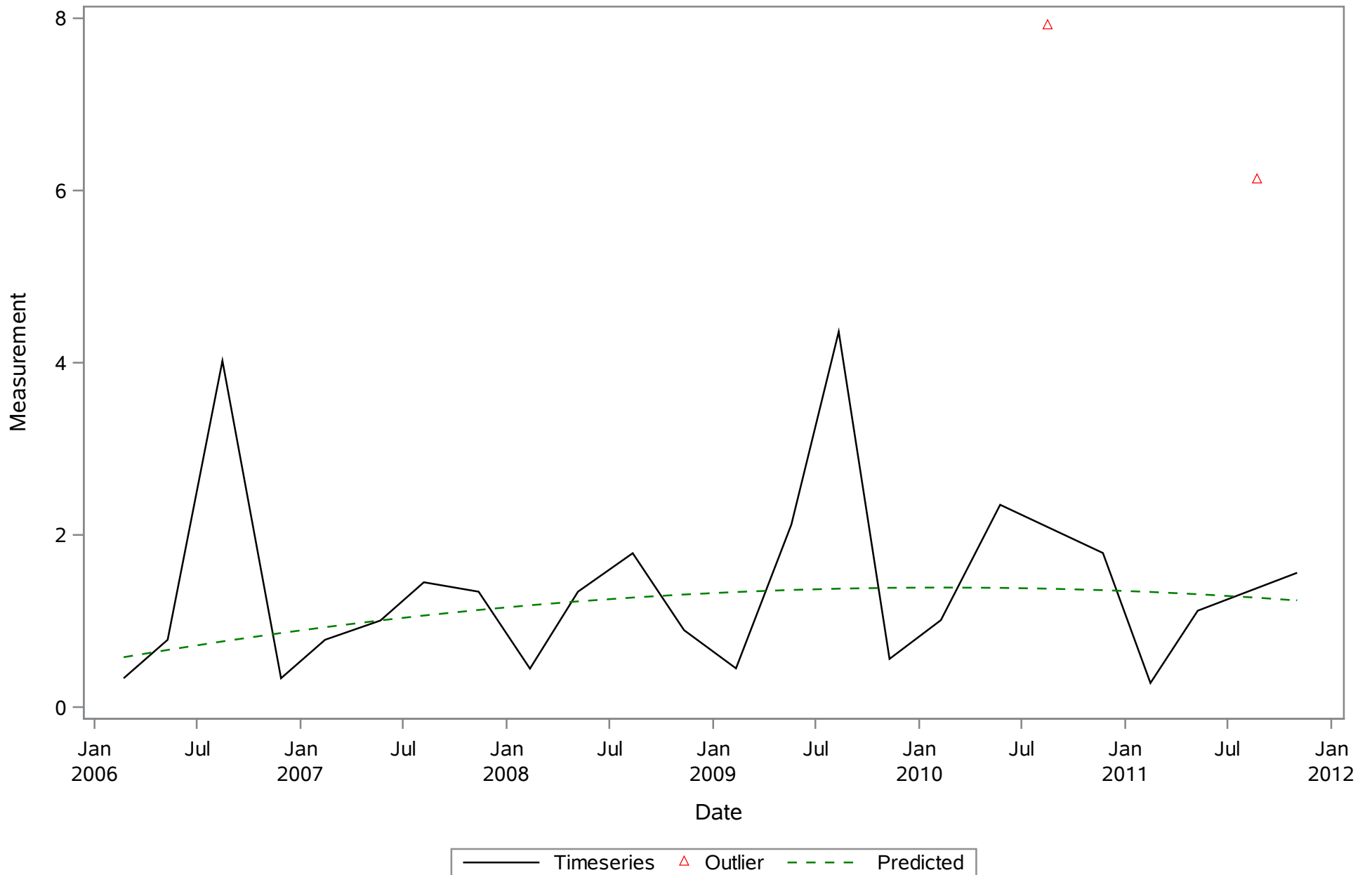
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
ALK_tot_mgL



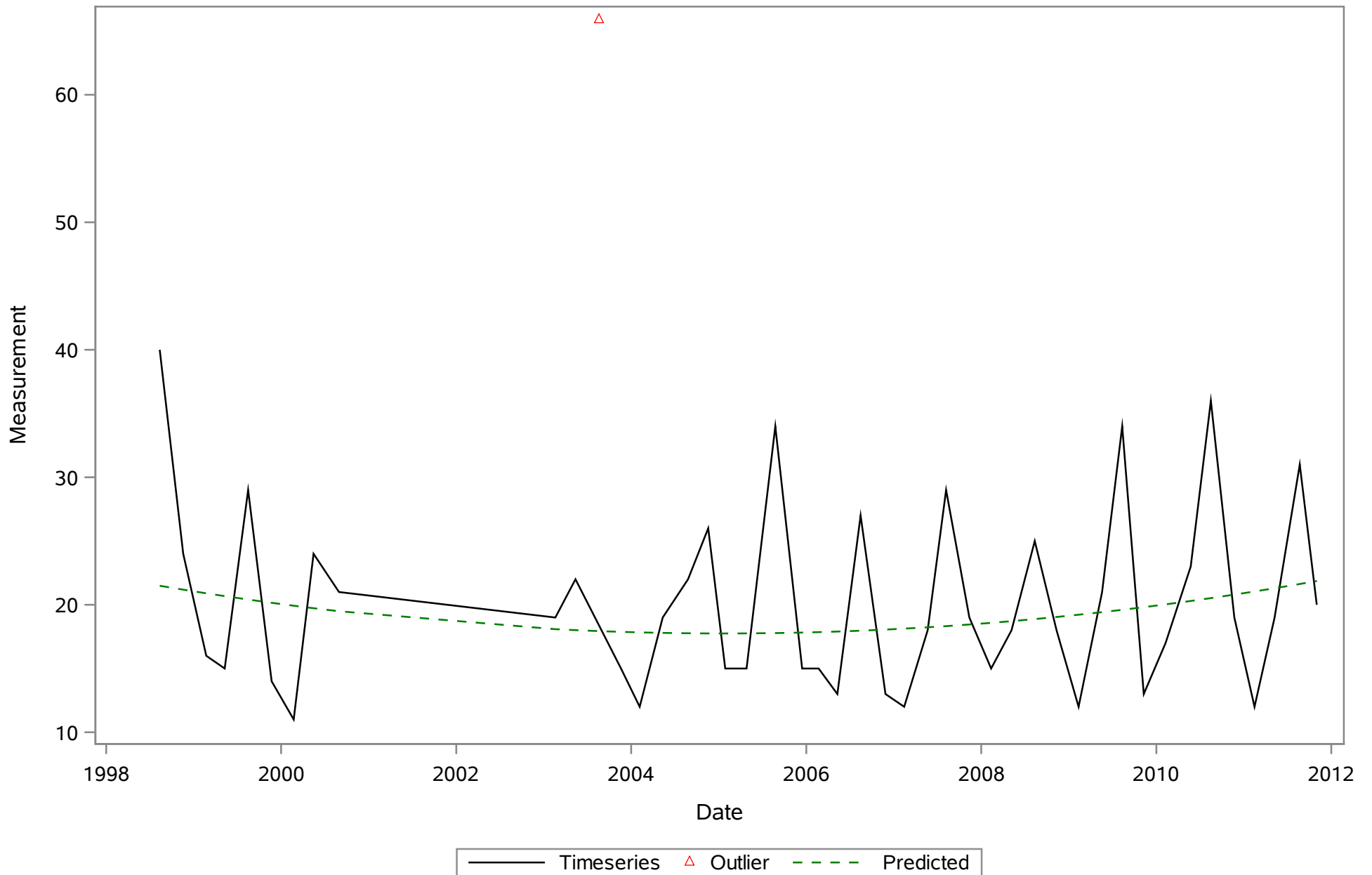
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_Uncor_ugL



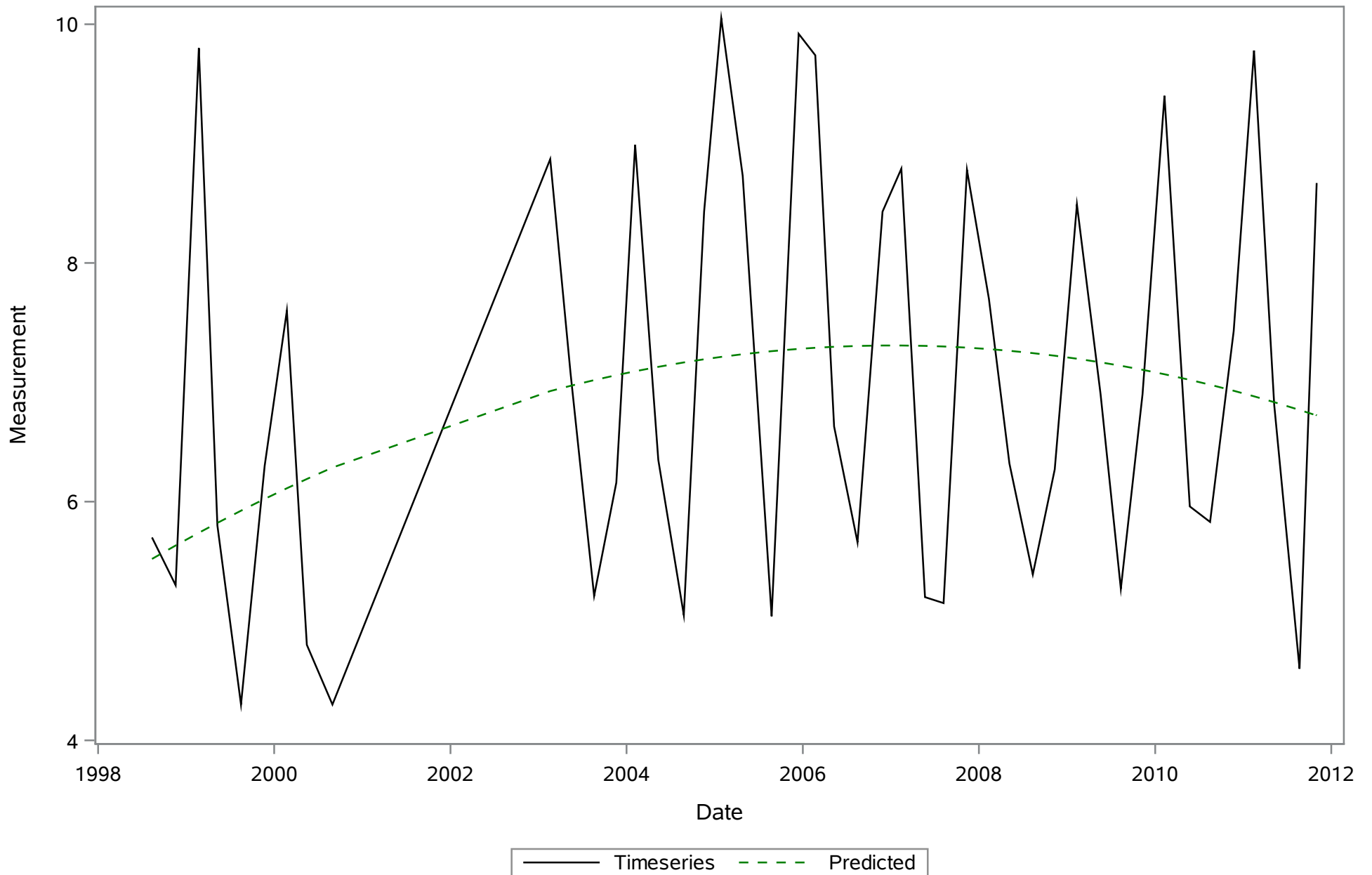
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_cor_ugl



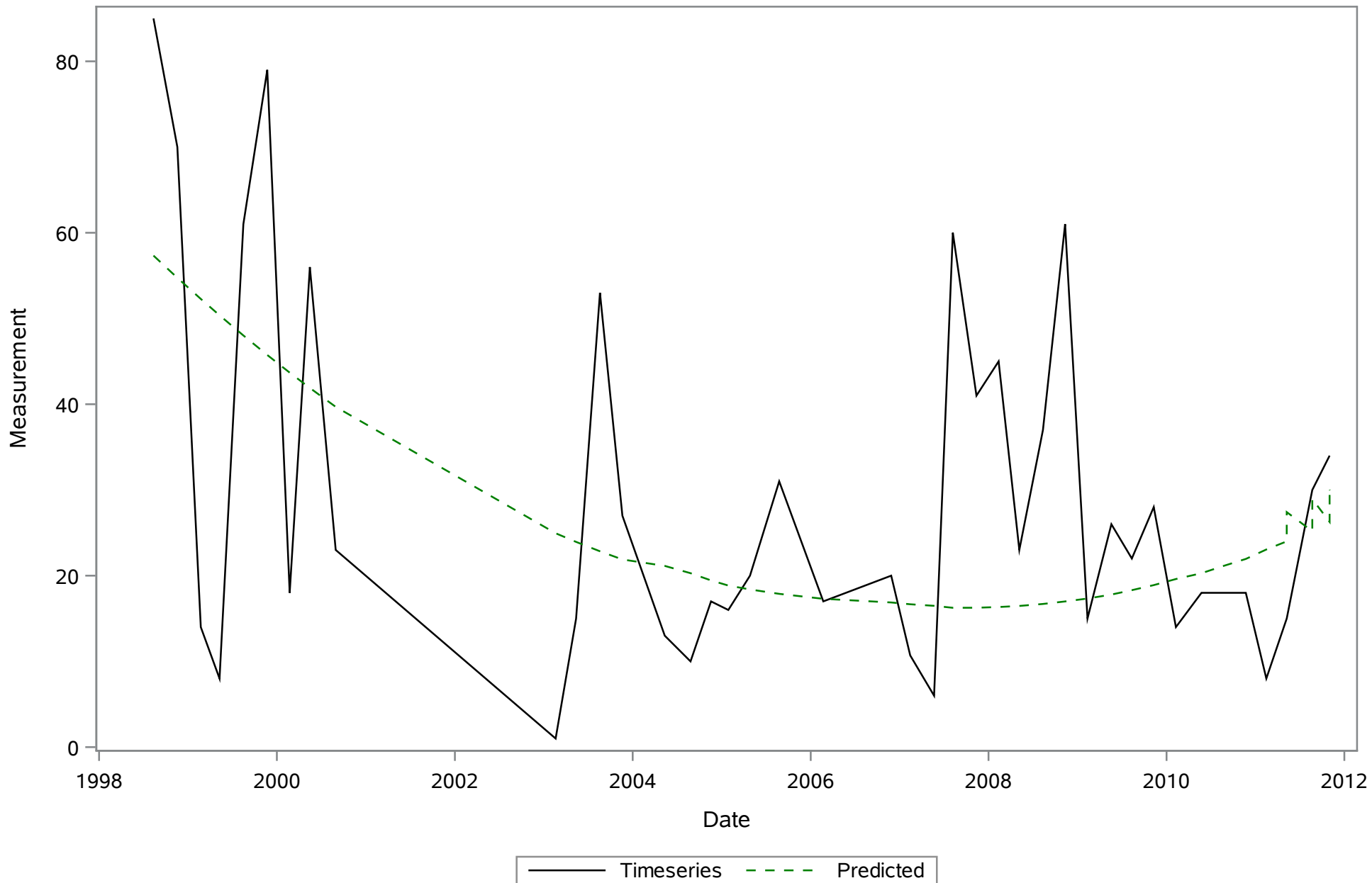
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
COLOR_PtCo



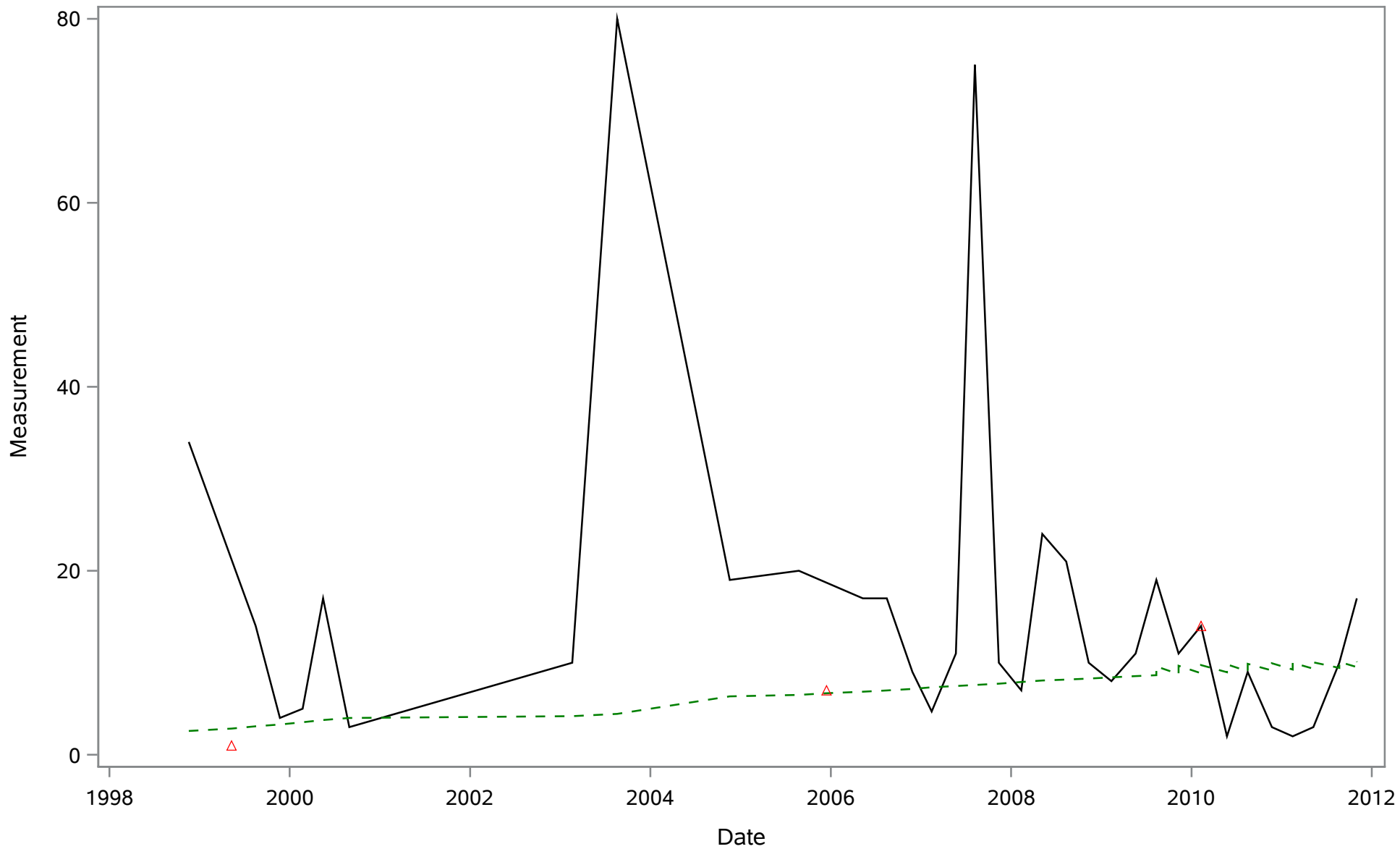
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
DO_mgL



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NH4_ugl

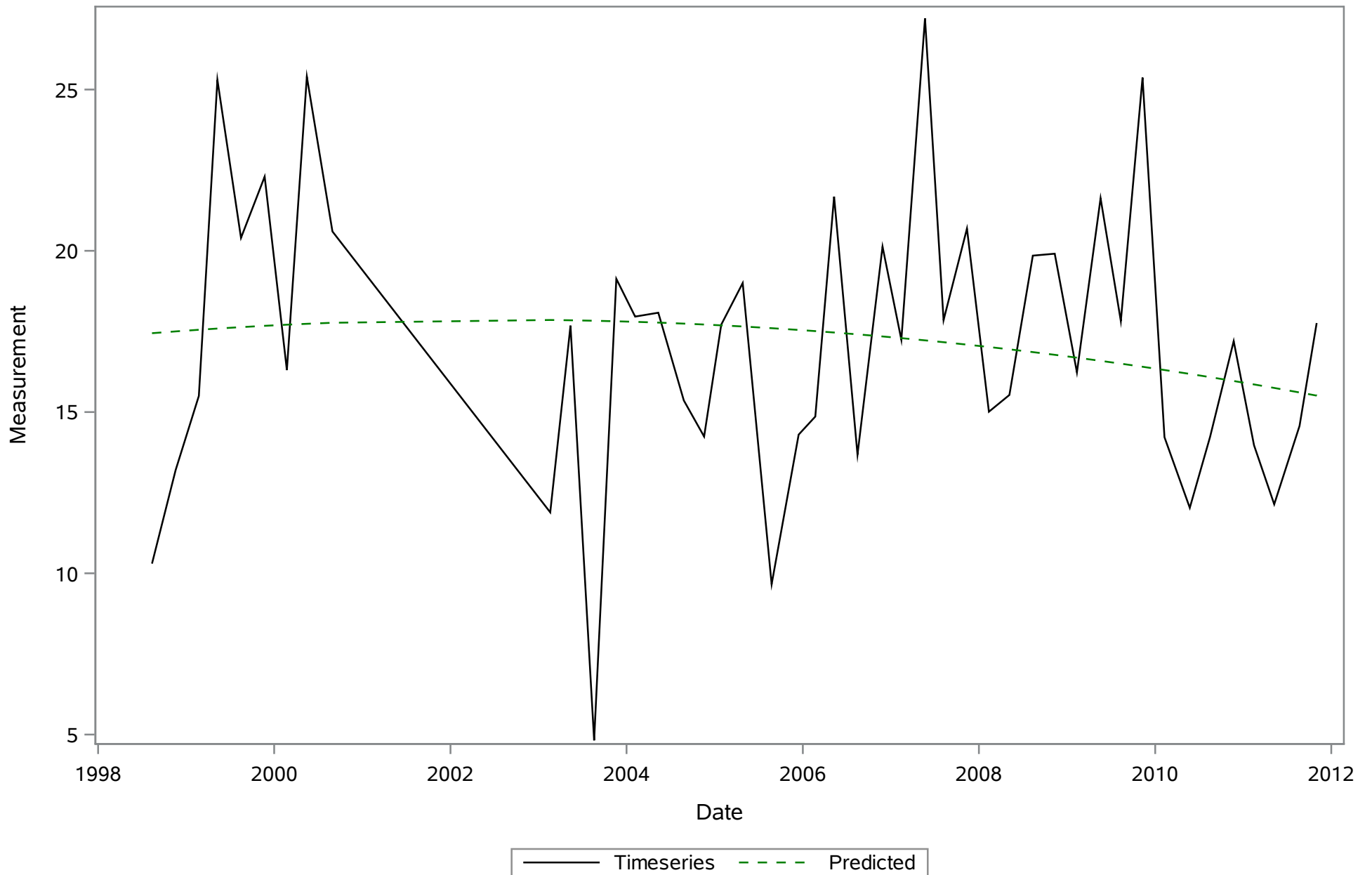


Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NO3_ugL

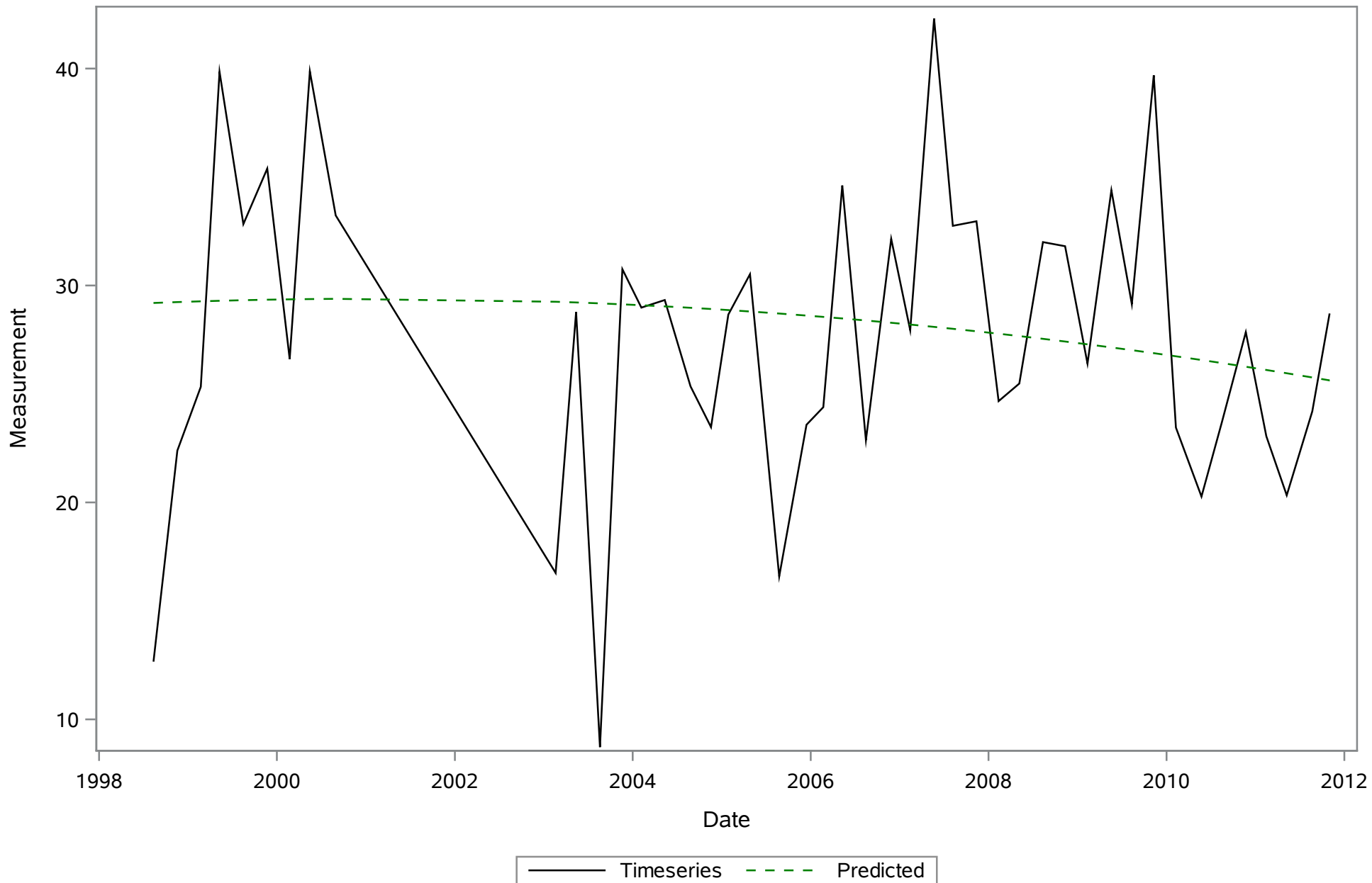


— Timeseries △ Outlier - - - Predicted

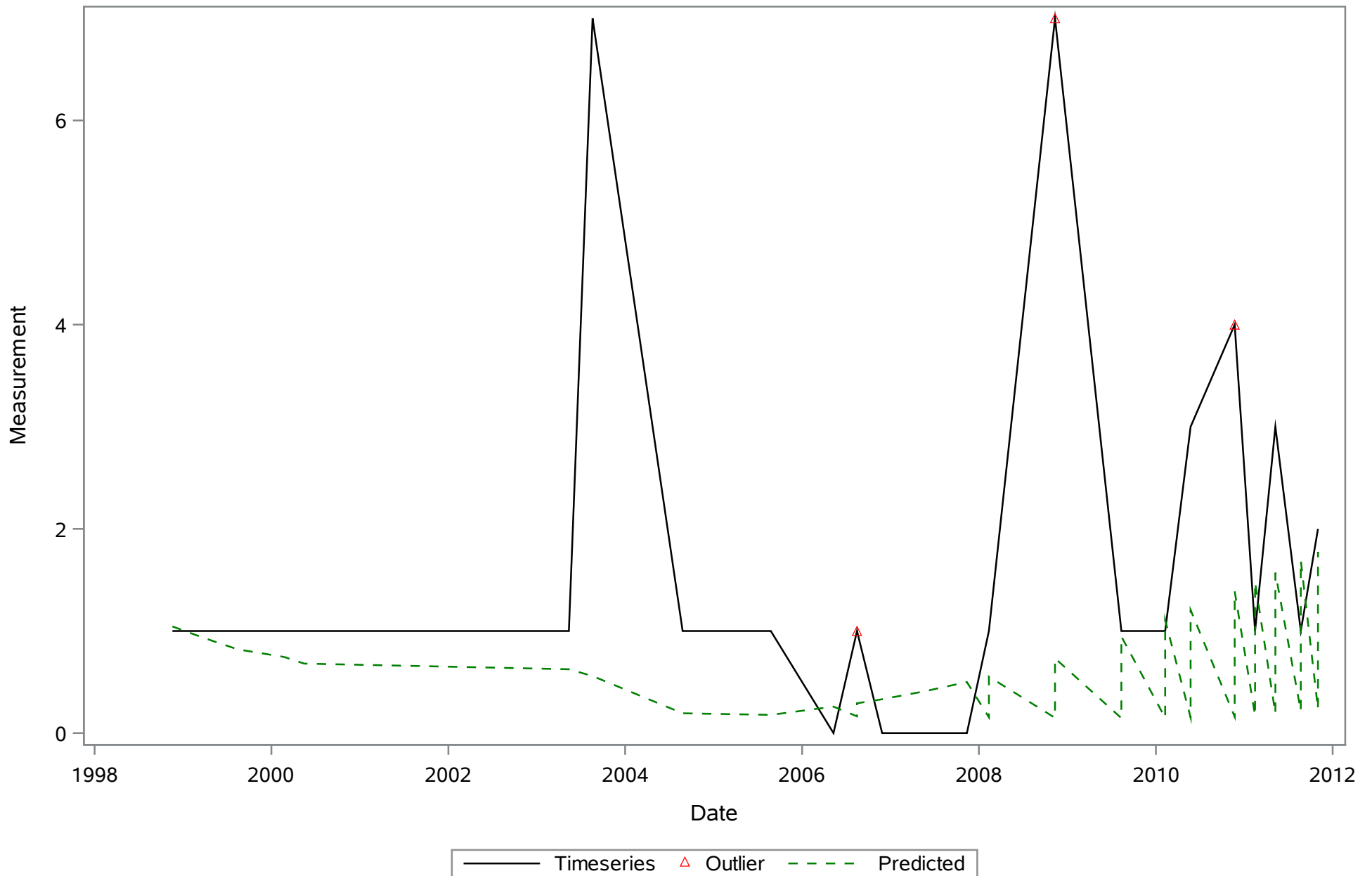
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SAL_Perc



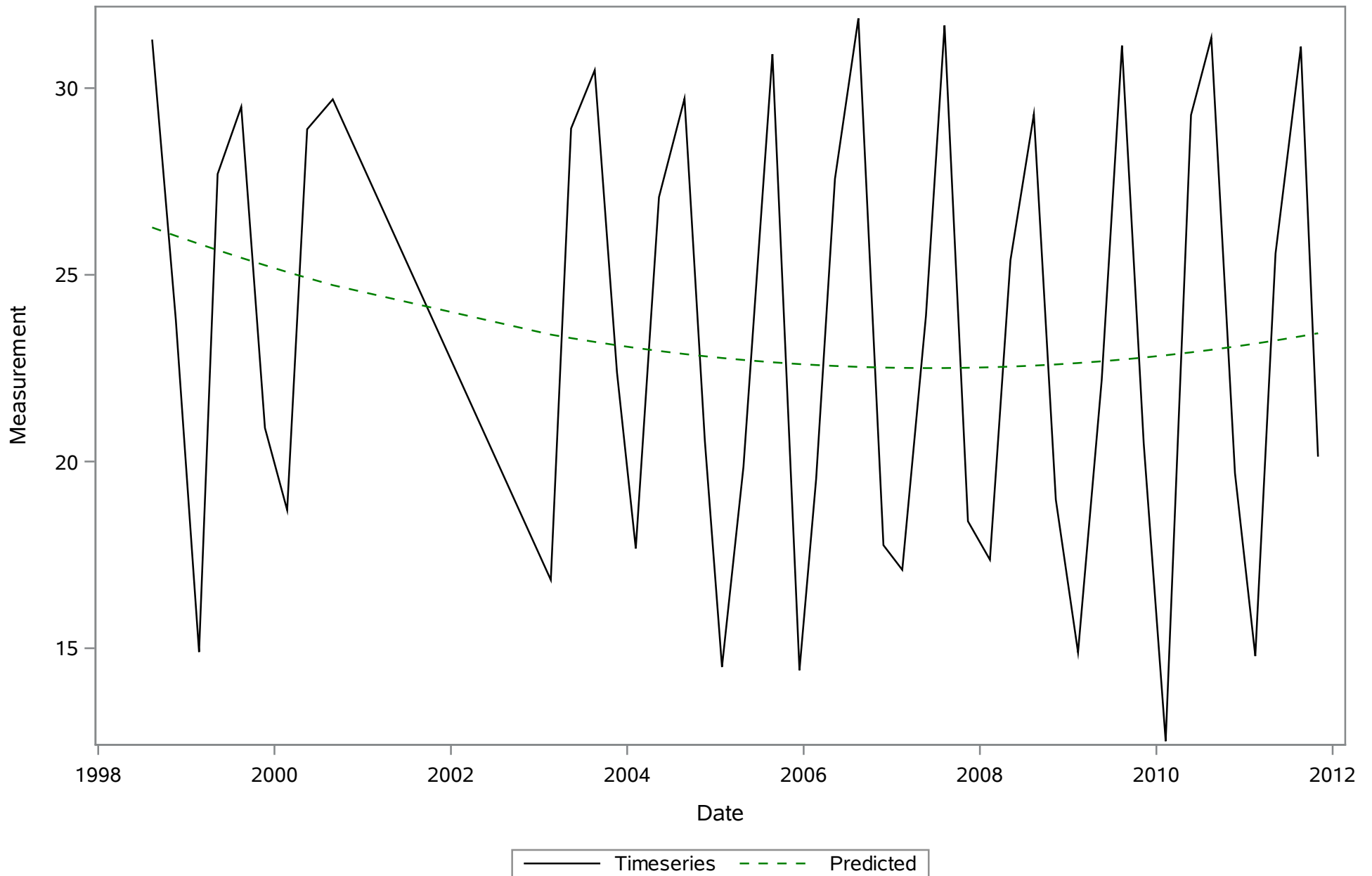
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SPCOND_mS_cm



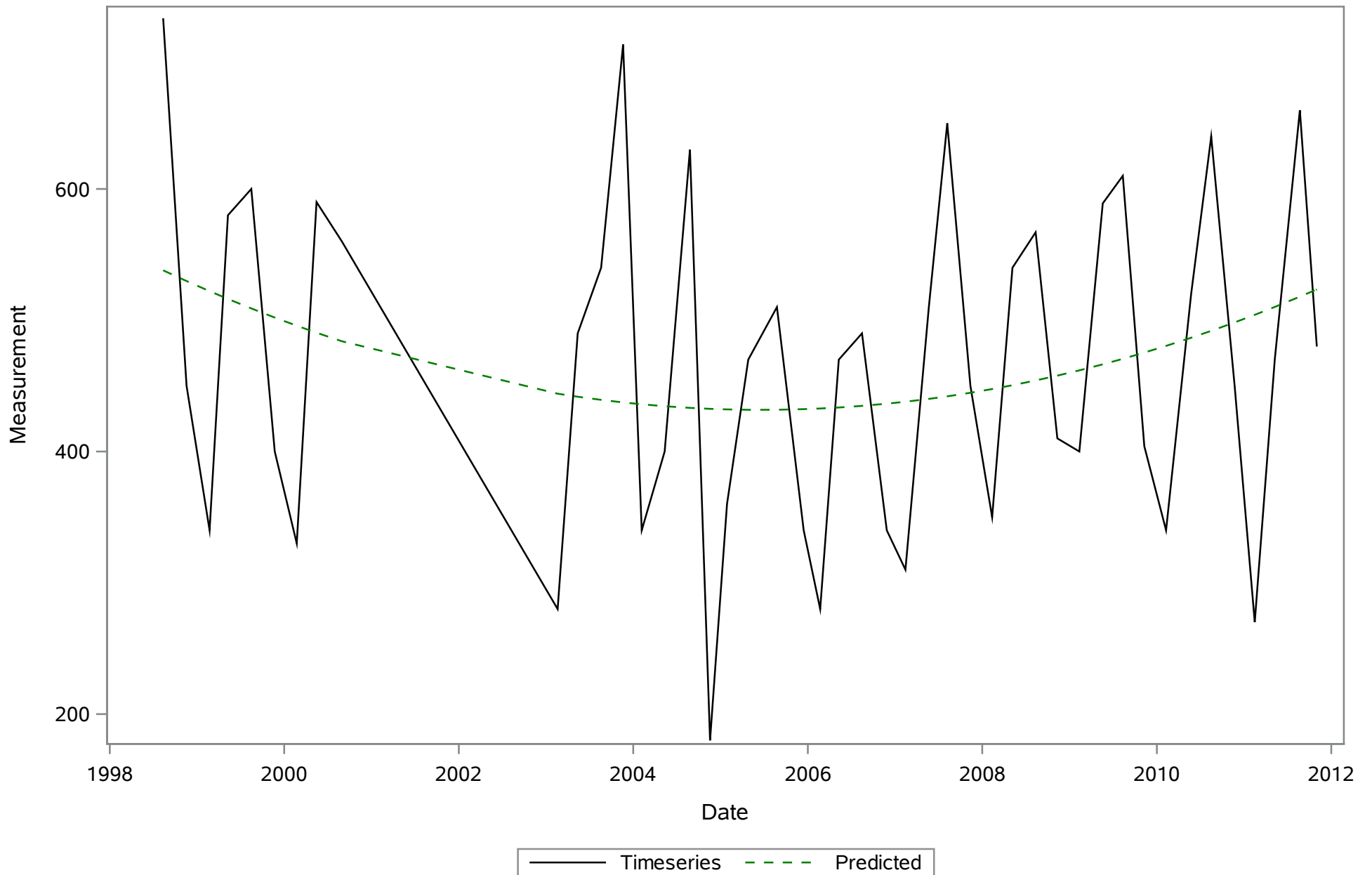
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SRP_ugL



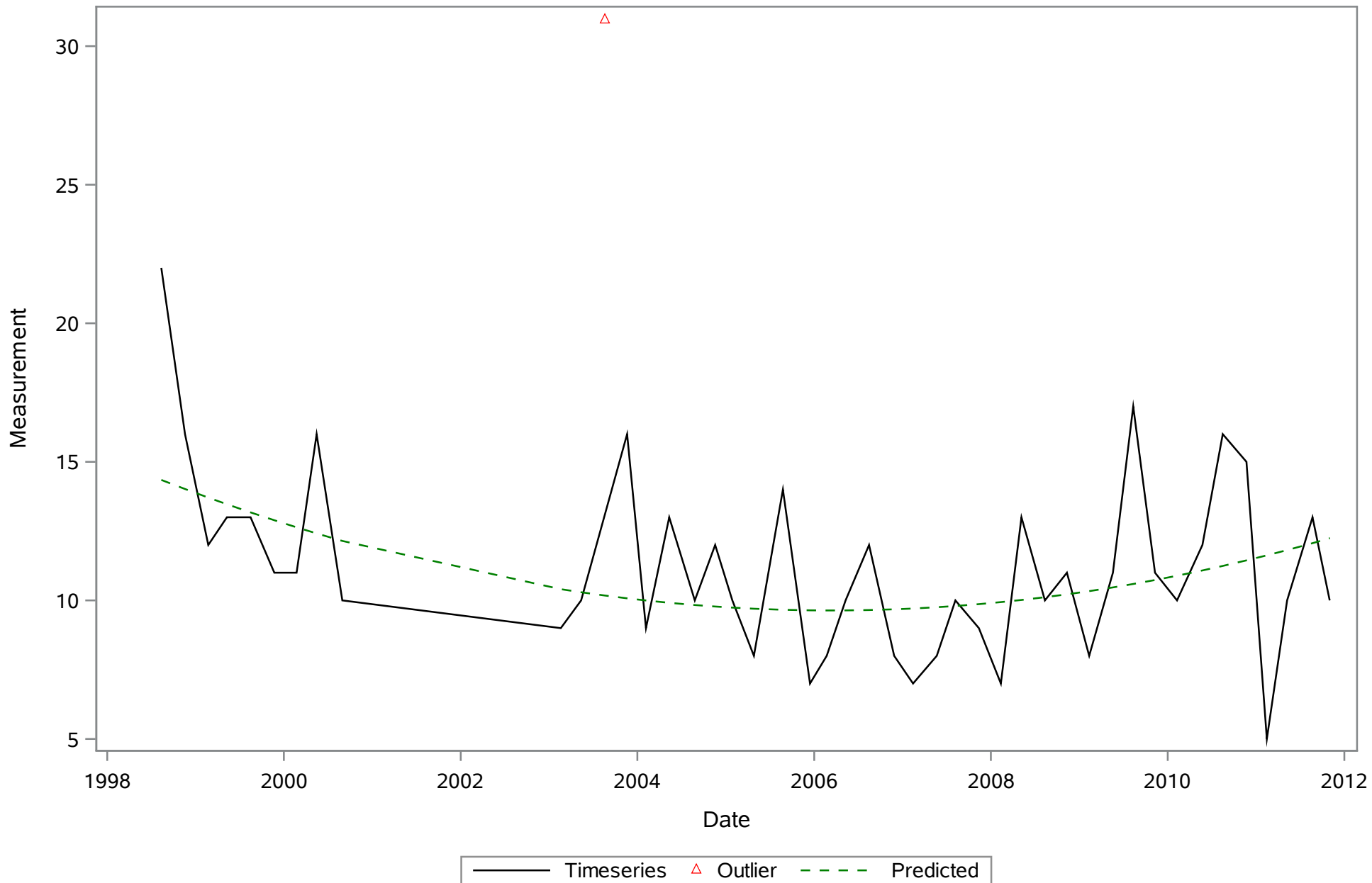
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TEMP_C



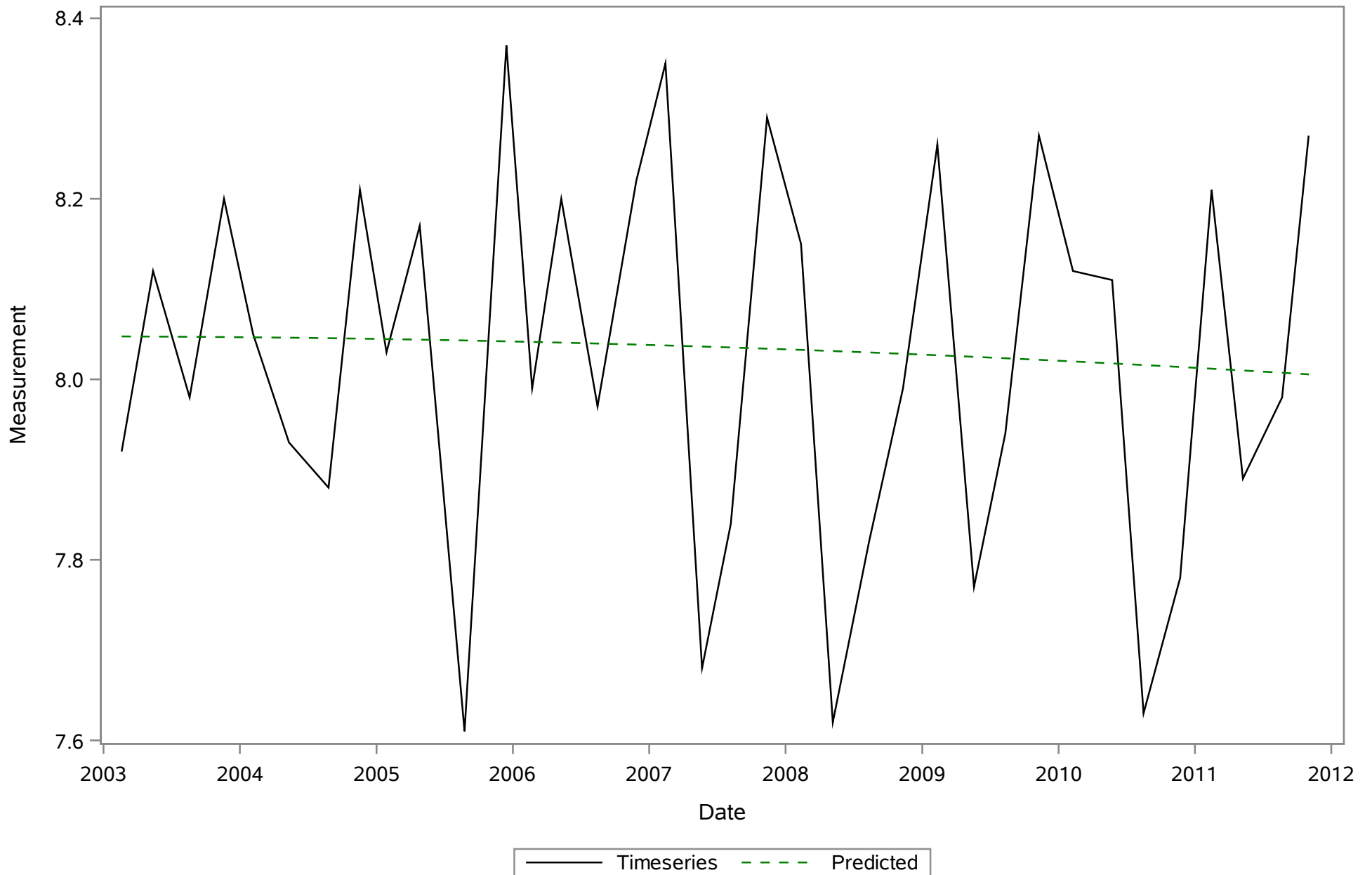
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TN_ugl



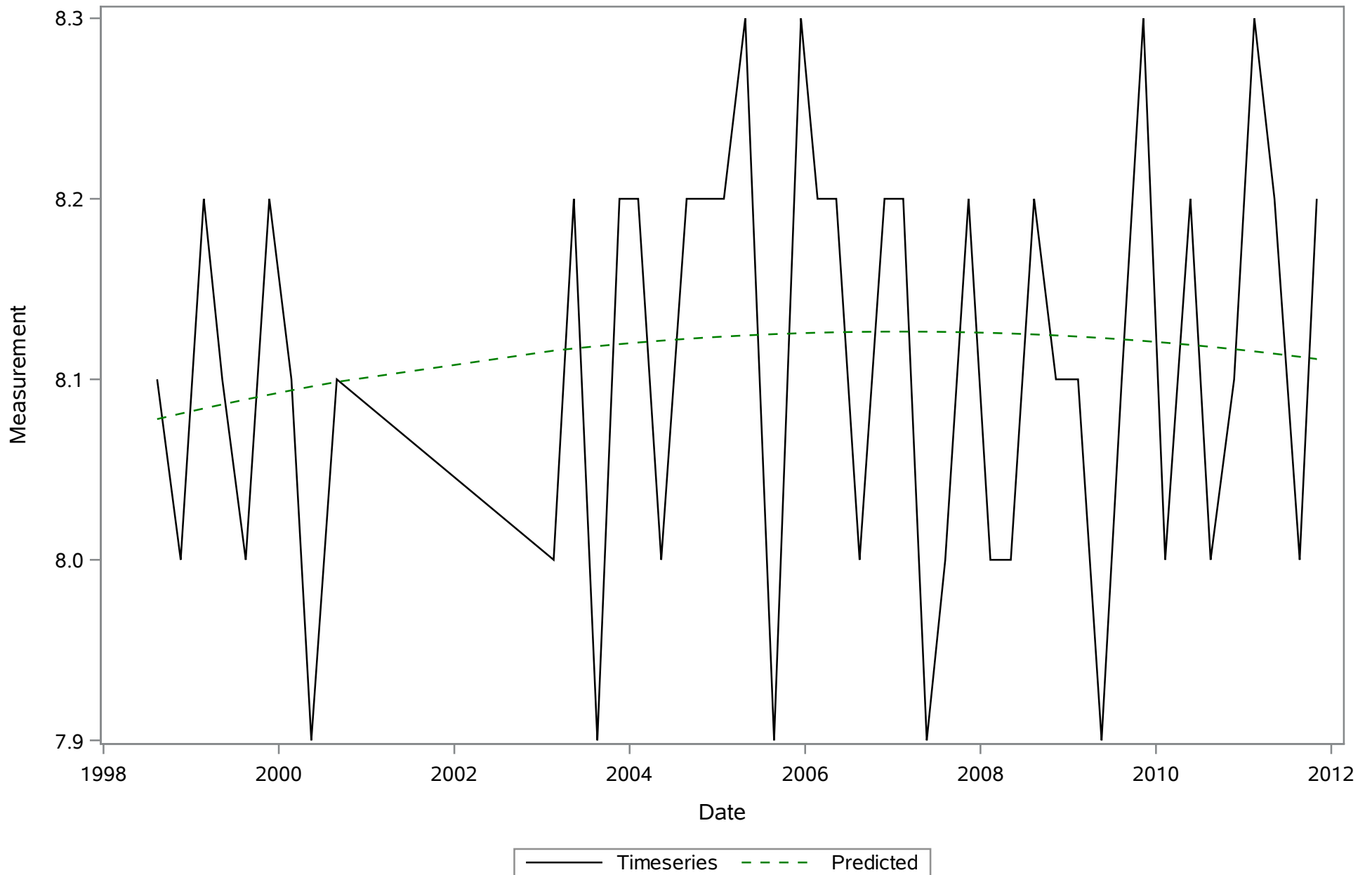
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TP_ugl



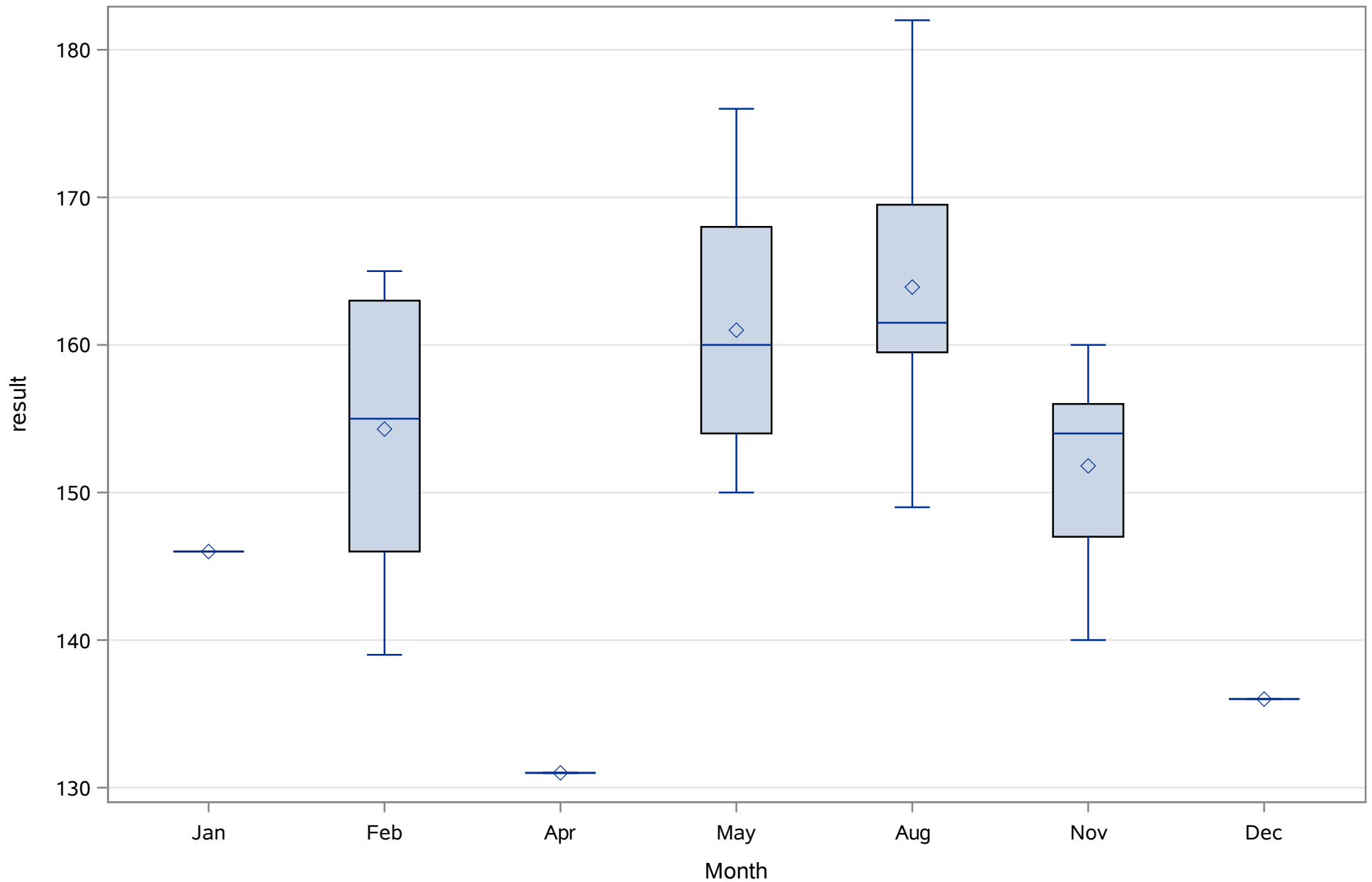
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Field



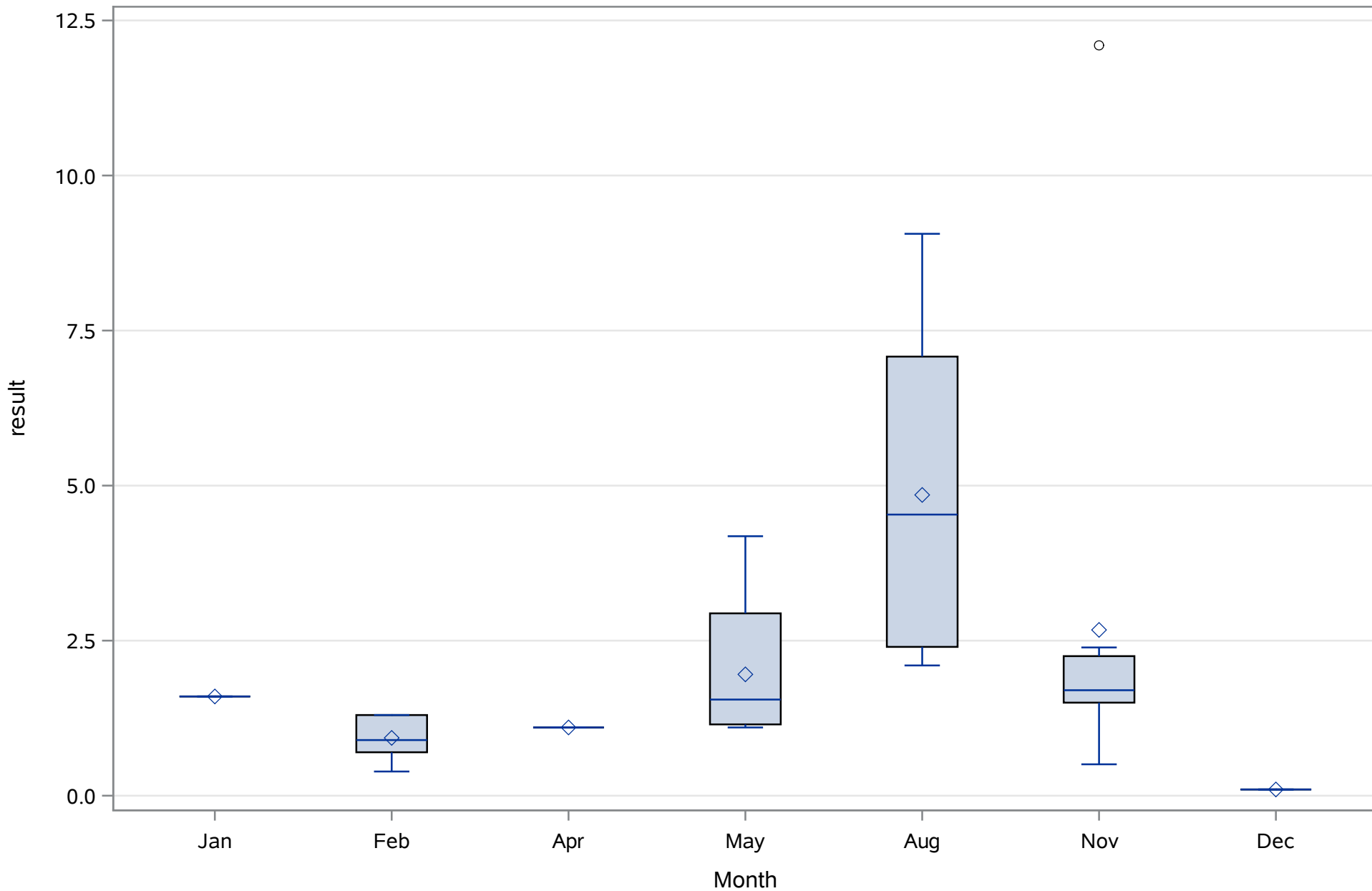
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Lab



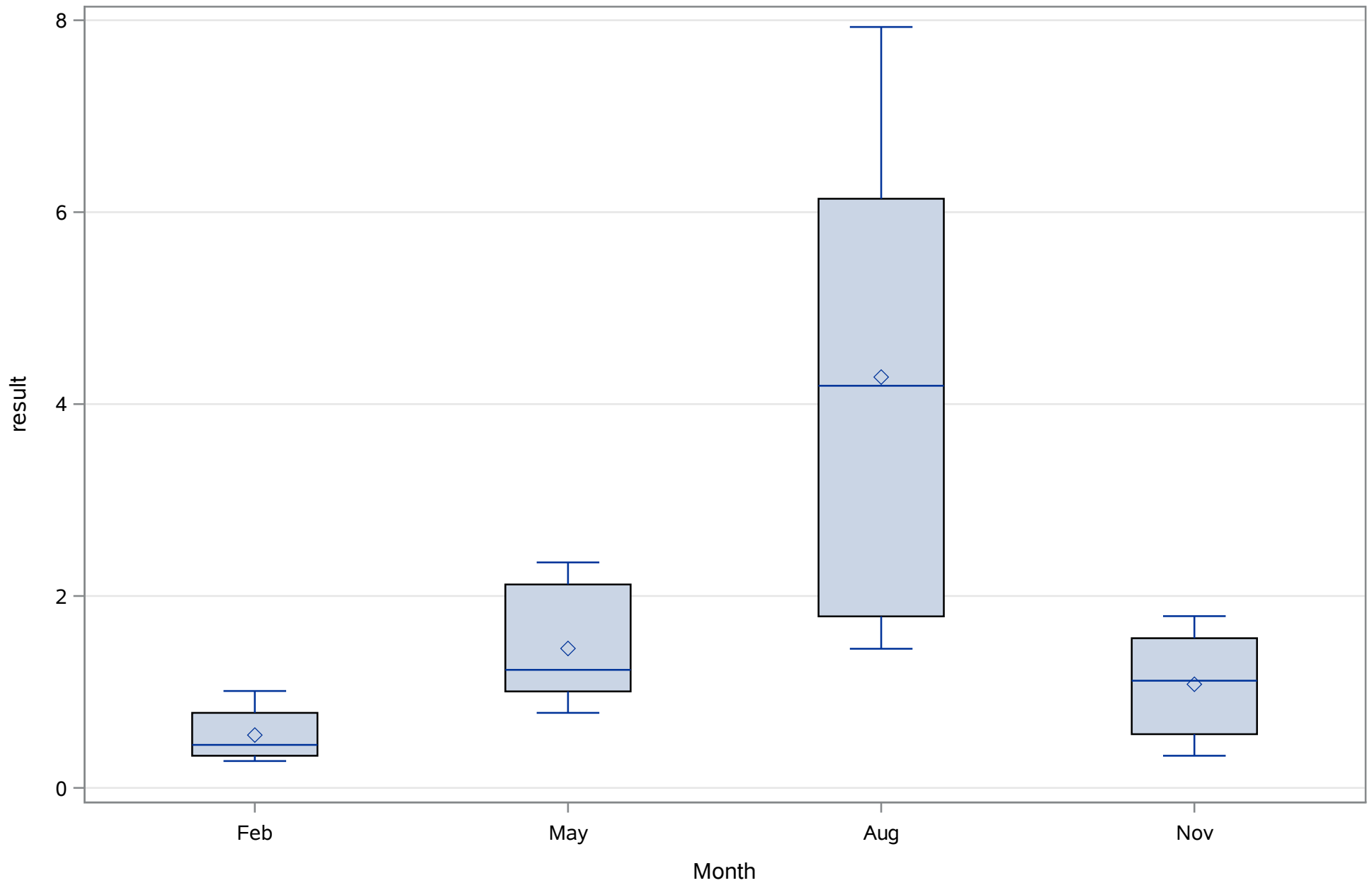
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
ALK_tot_mgL



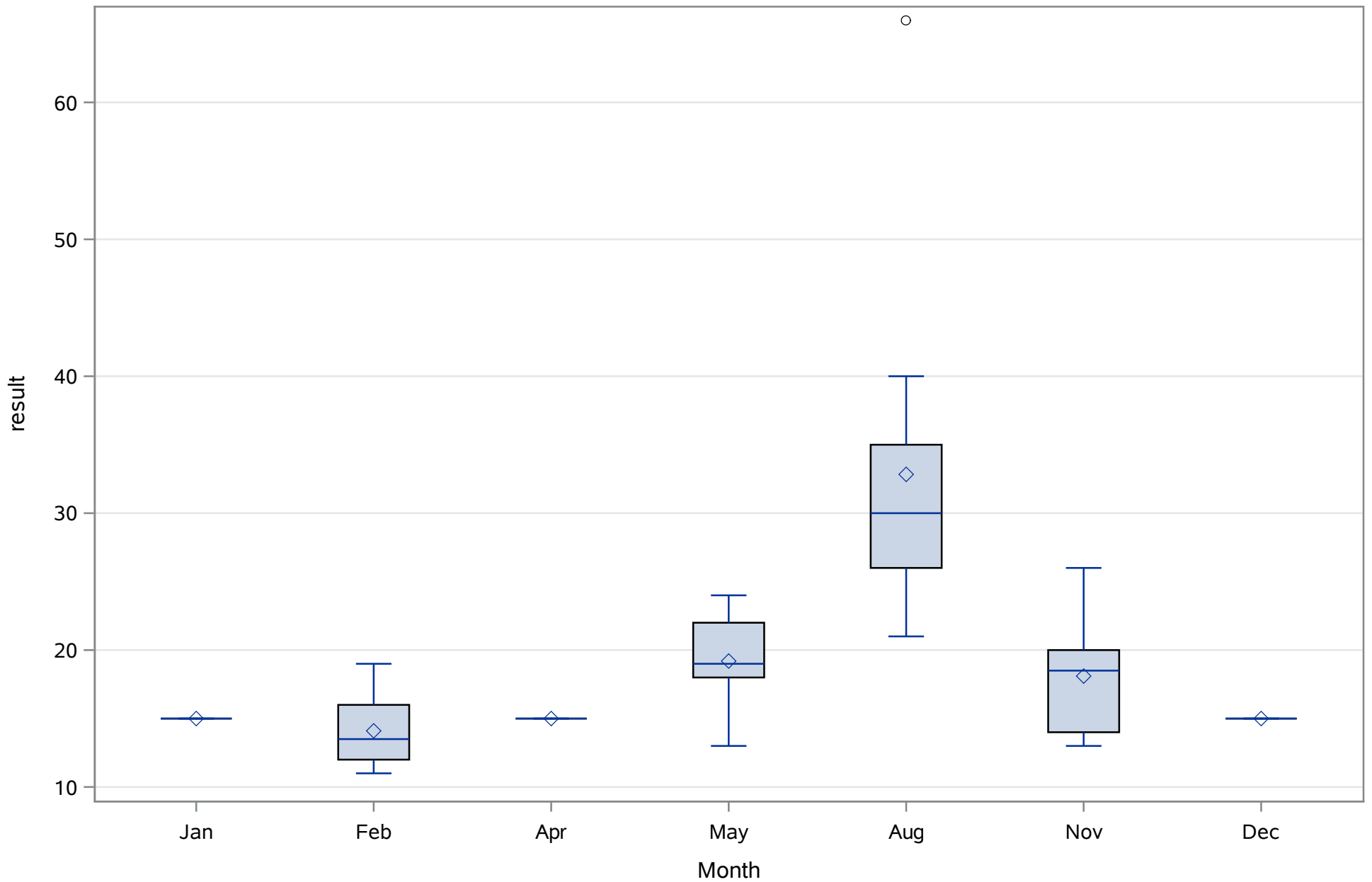
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_Uncor_ugL



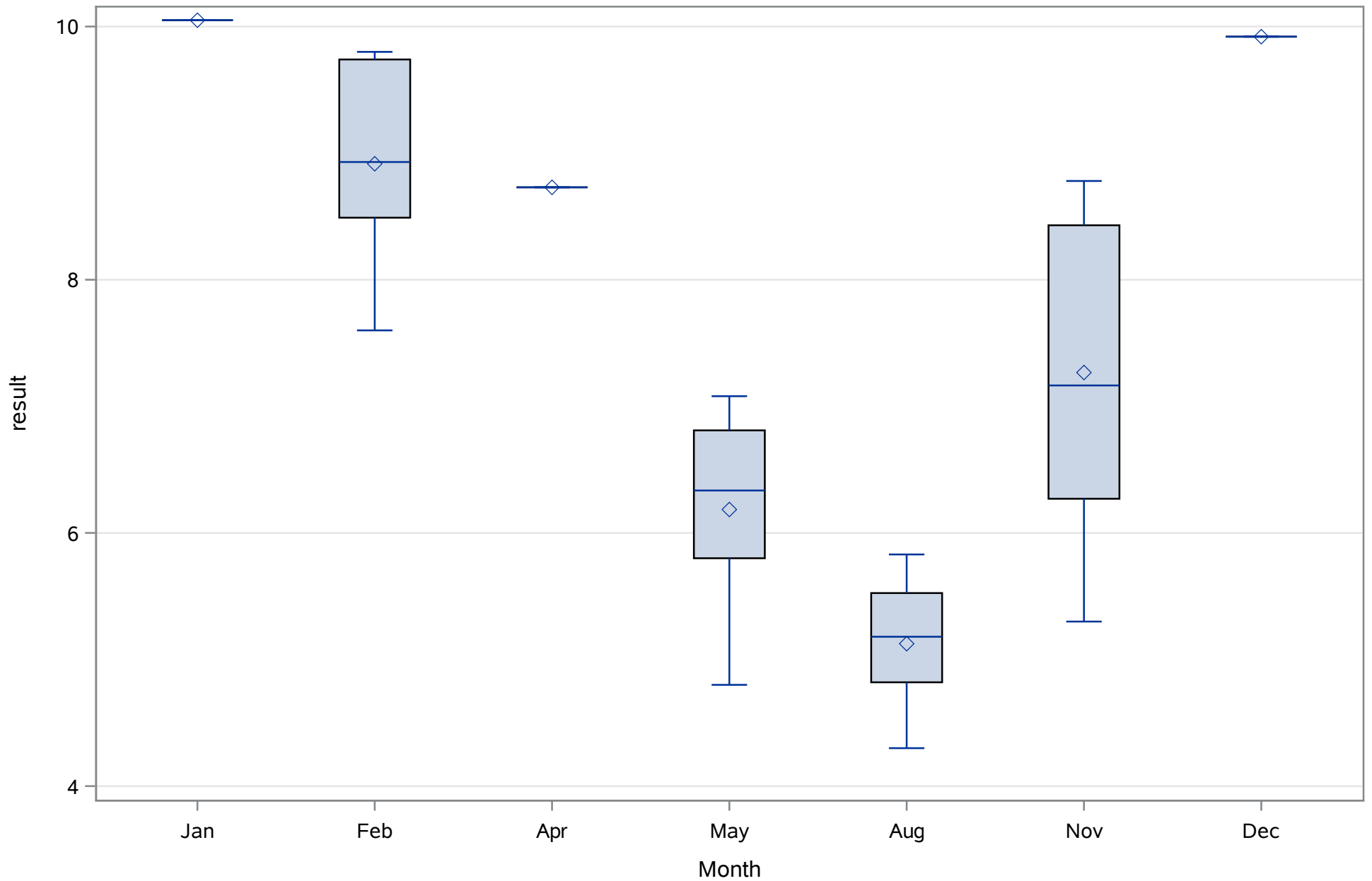
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
CHLA_cor_ugl



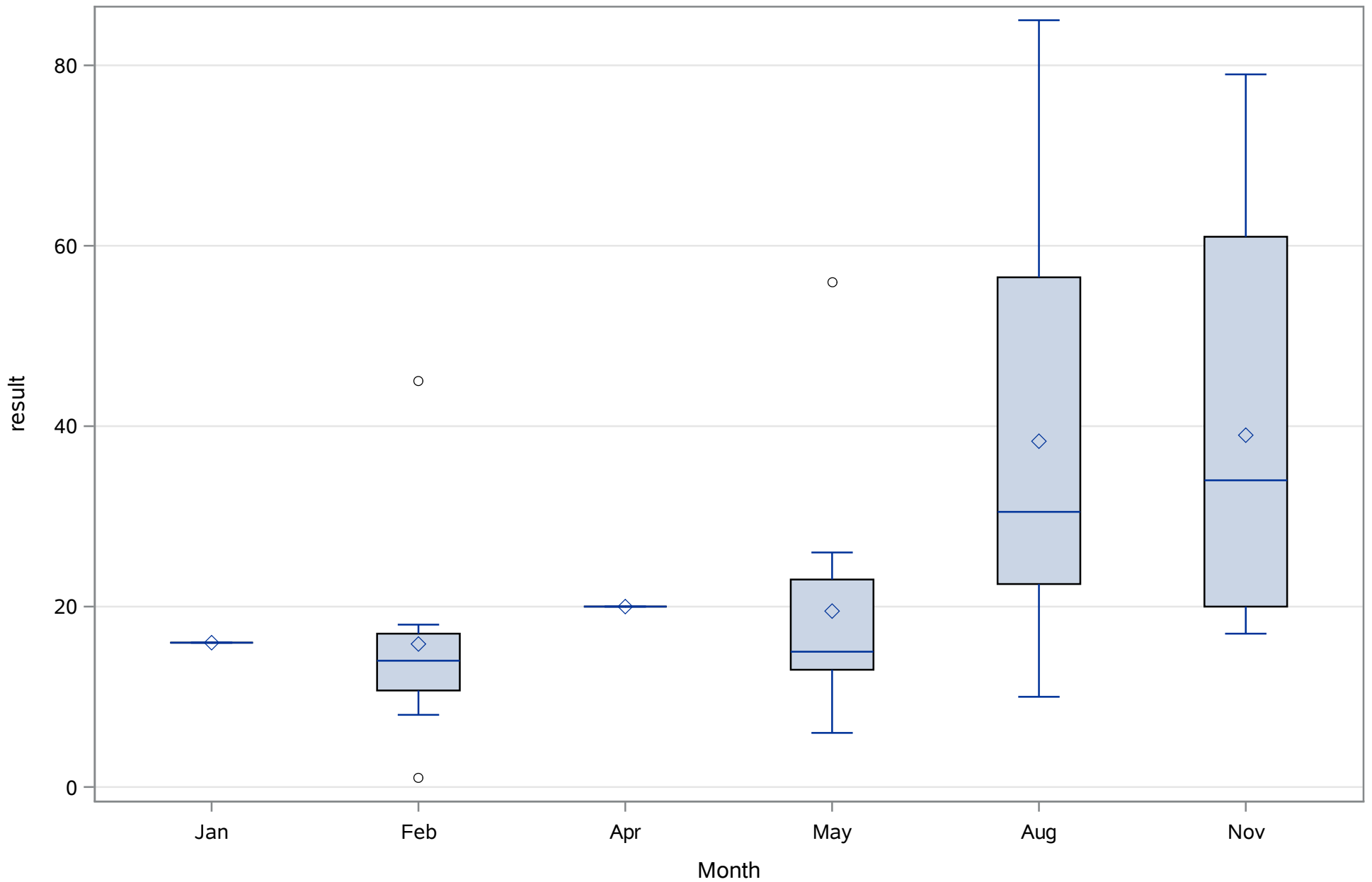
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
COLOR_PtCo



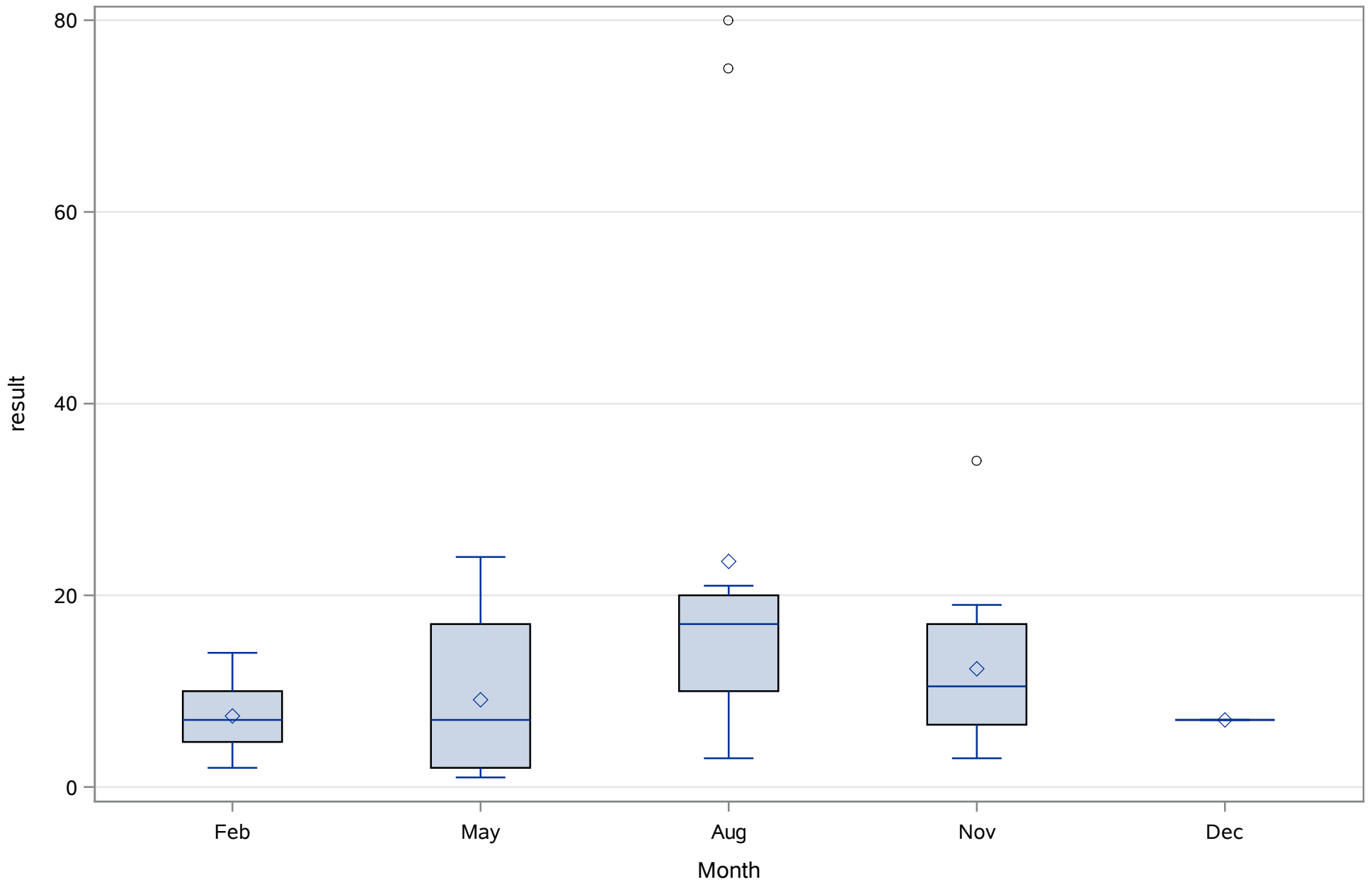
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
DO_mgL



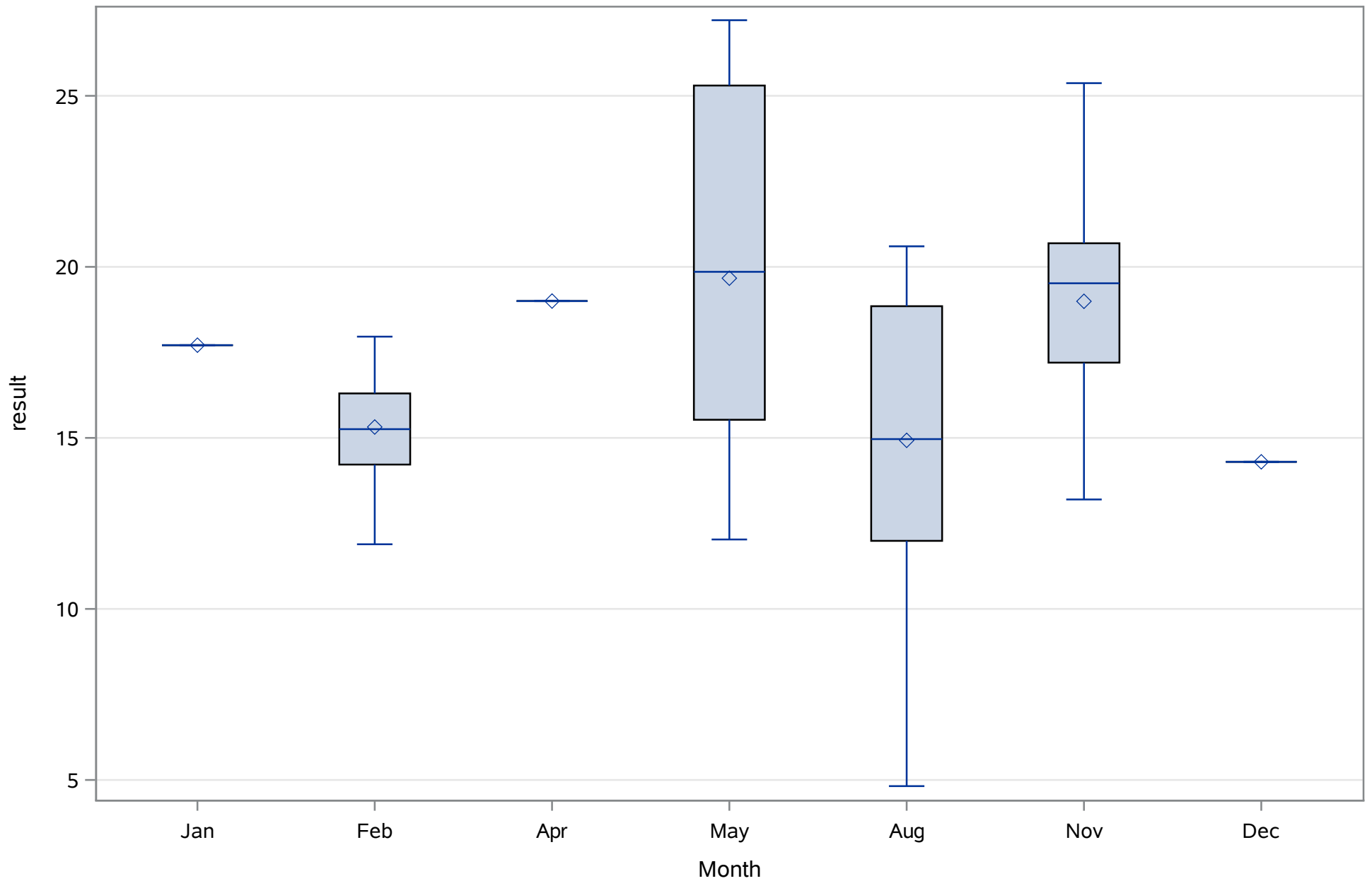
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NH₄_ugl



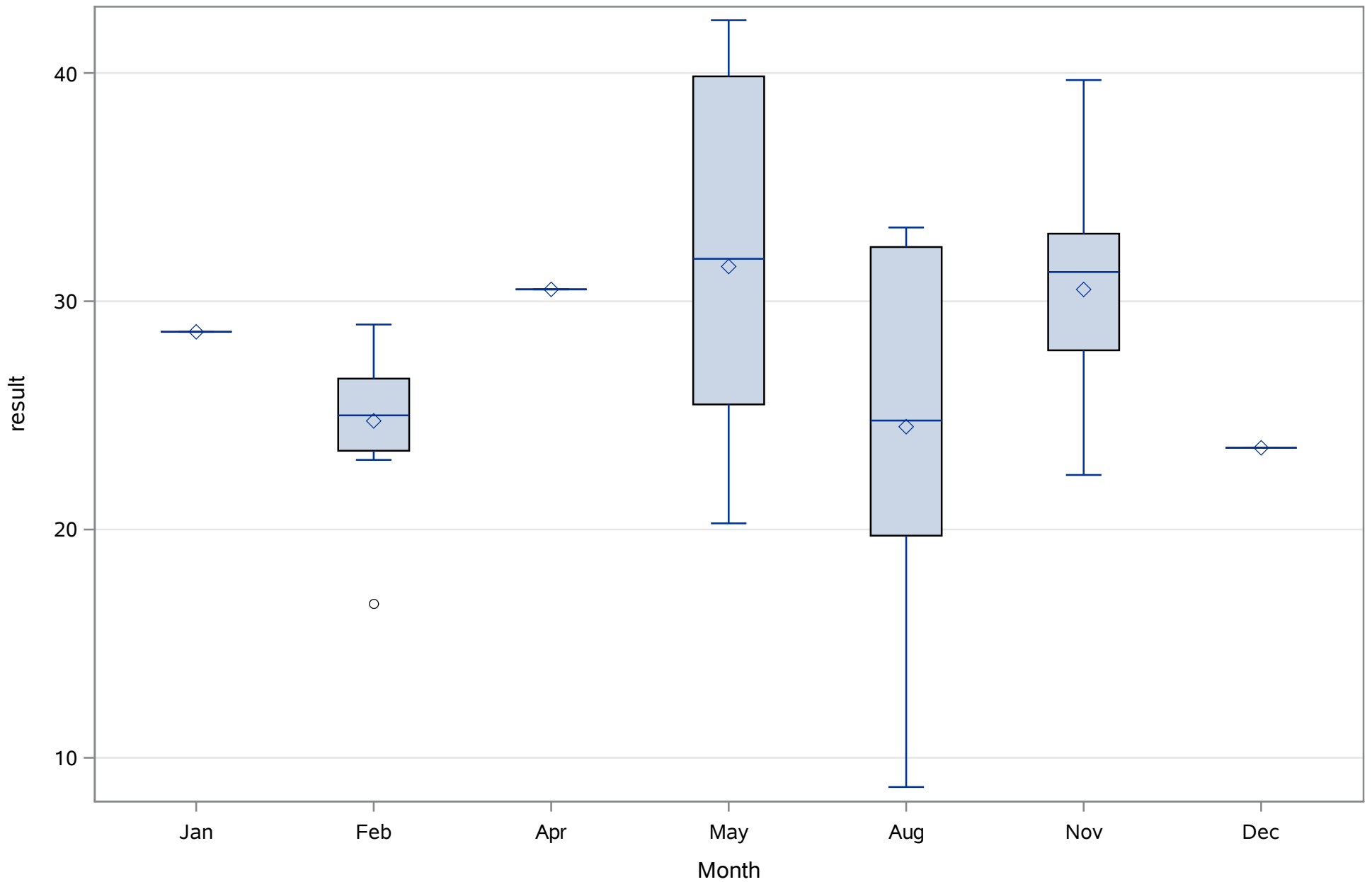
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
NO3_ugL



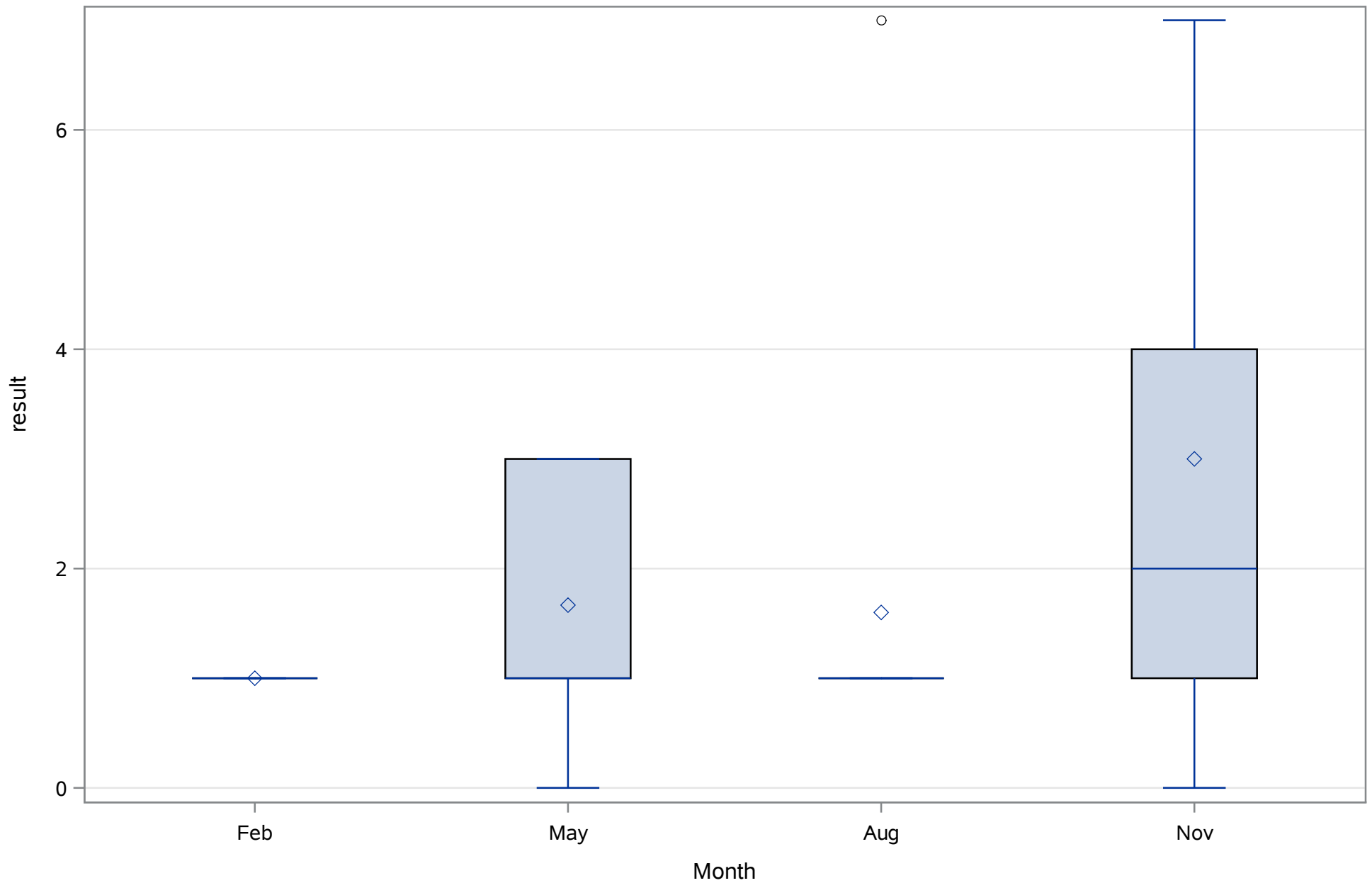
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SAL_Perc



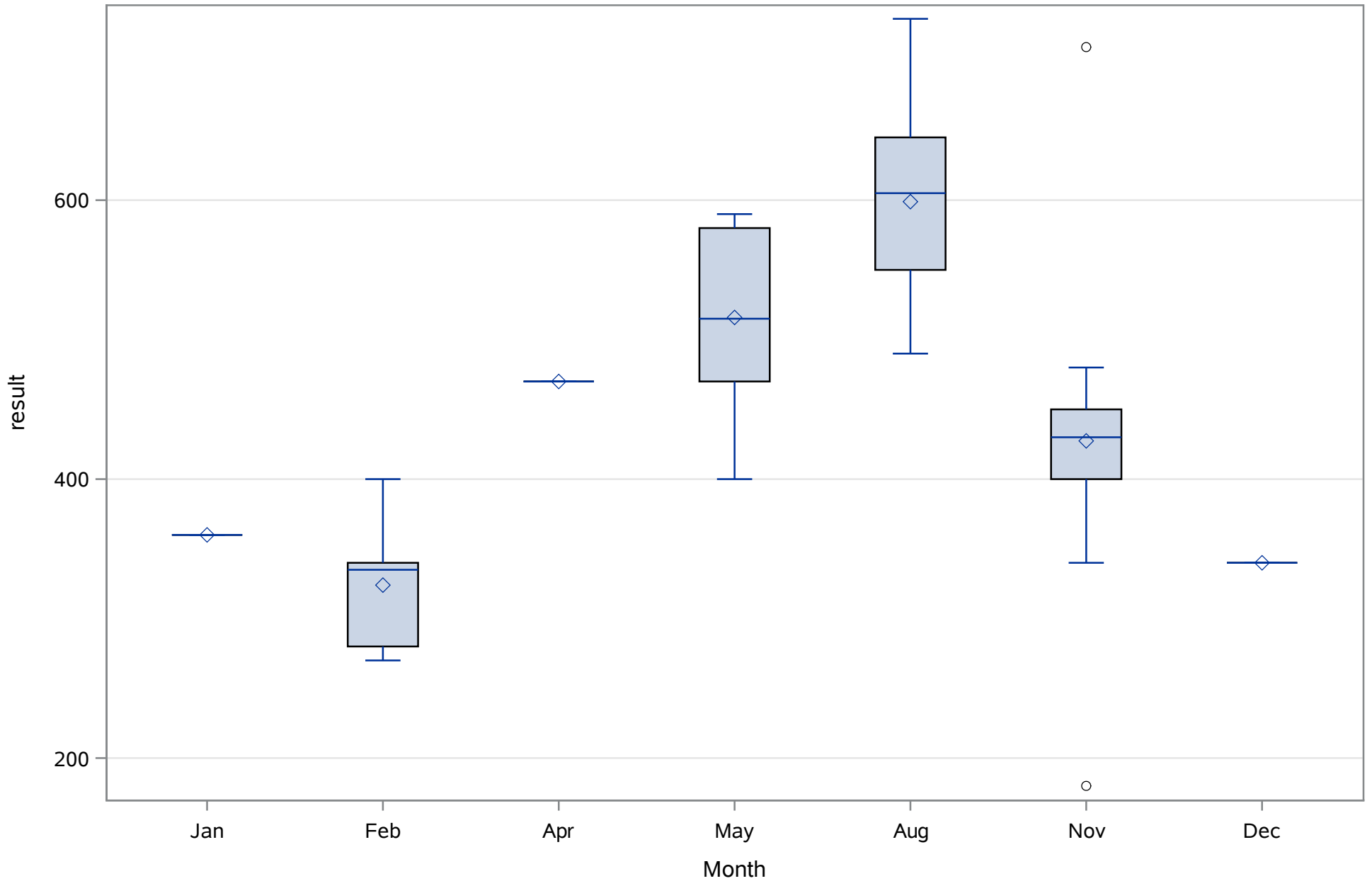
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SPCOND_mS_cm



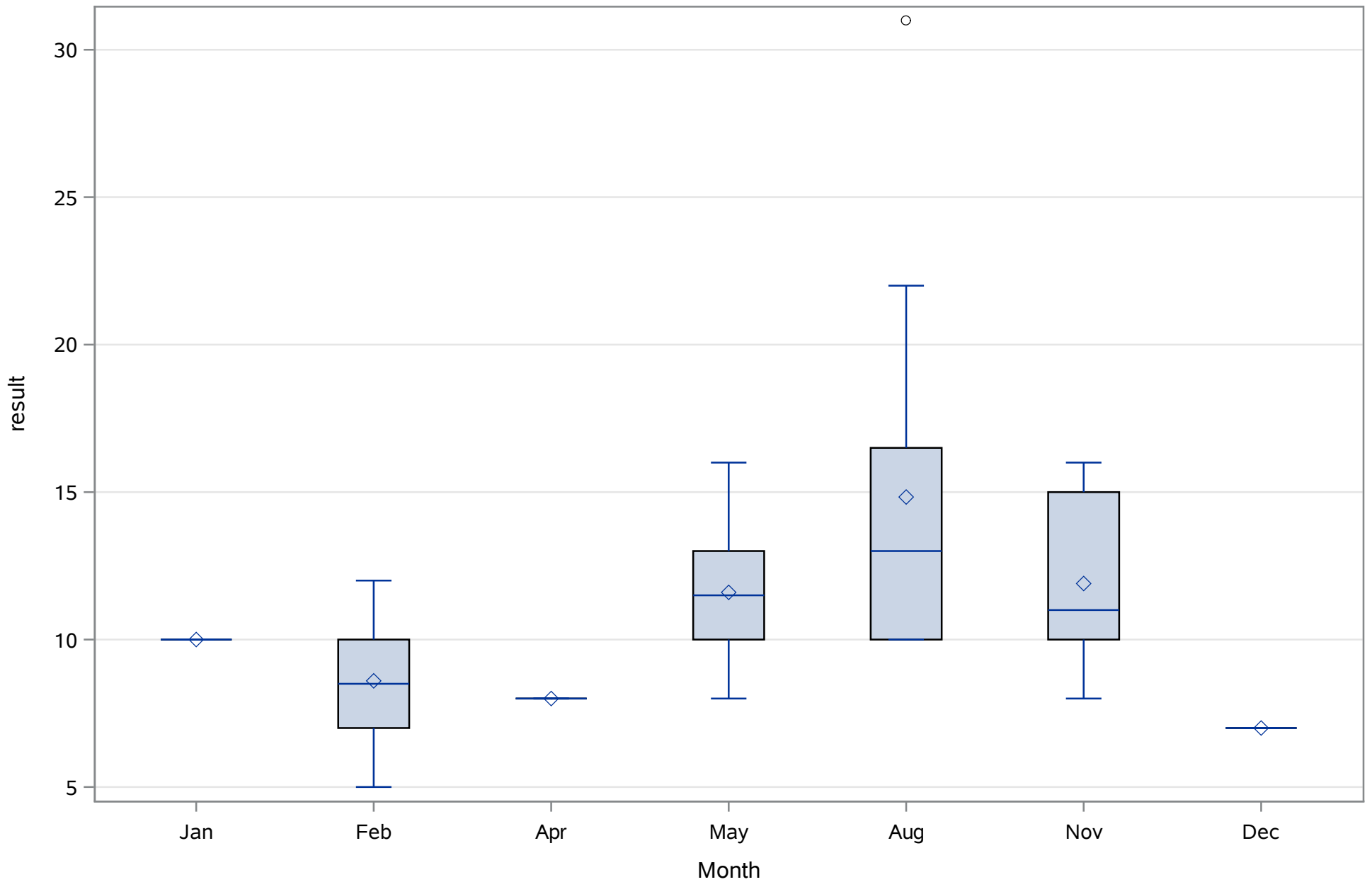
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
SRP_ugL



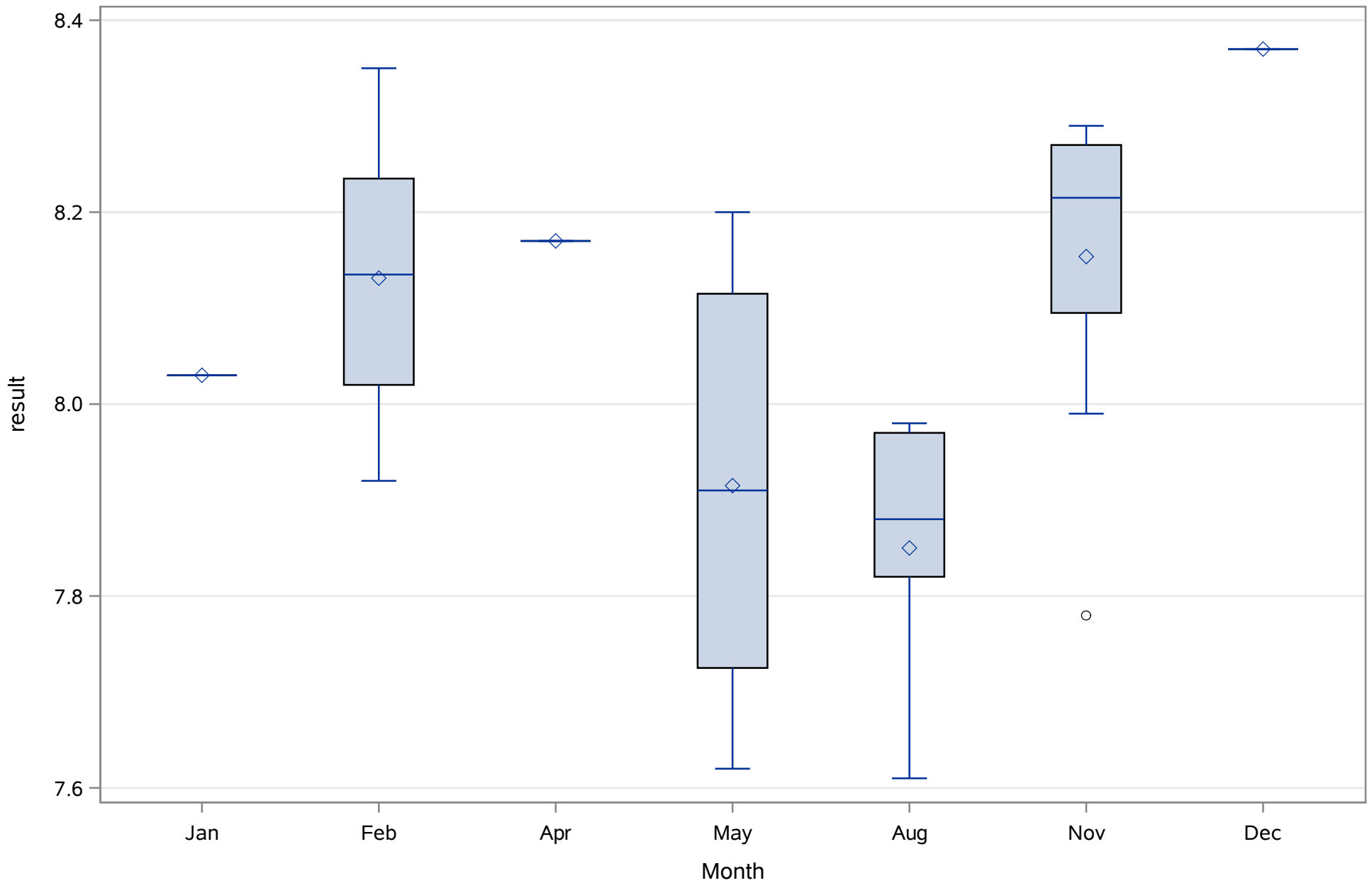
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TN_ugl



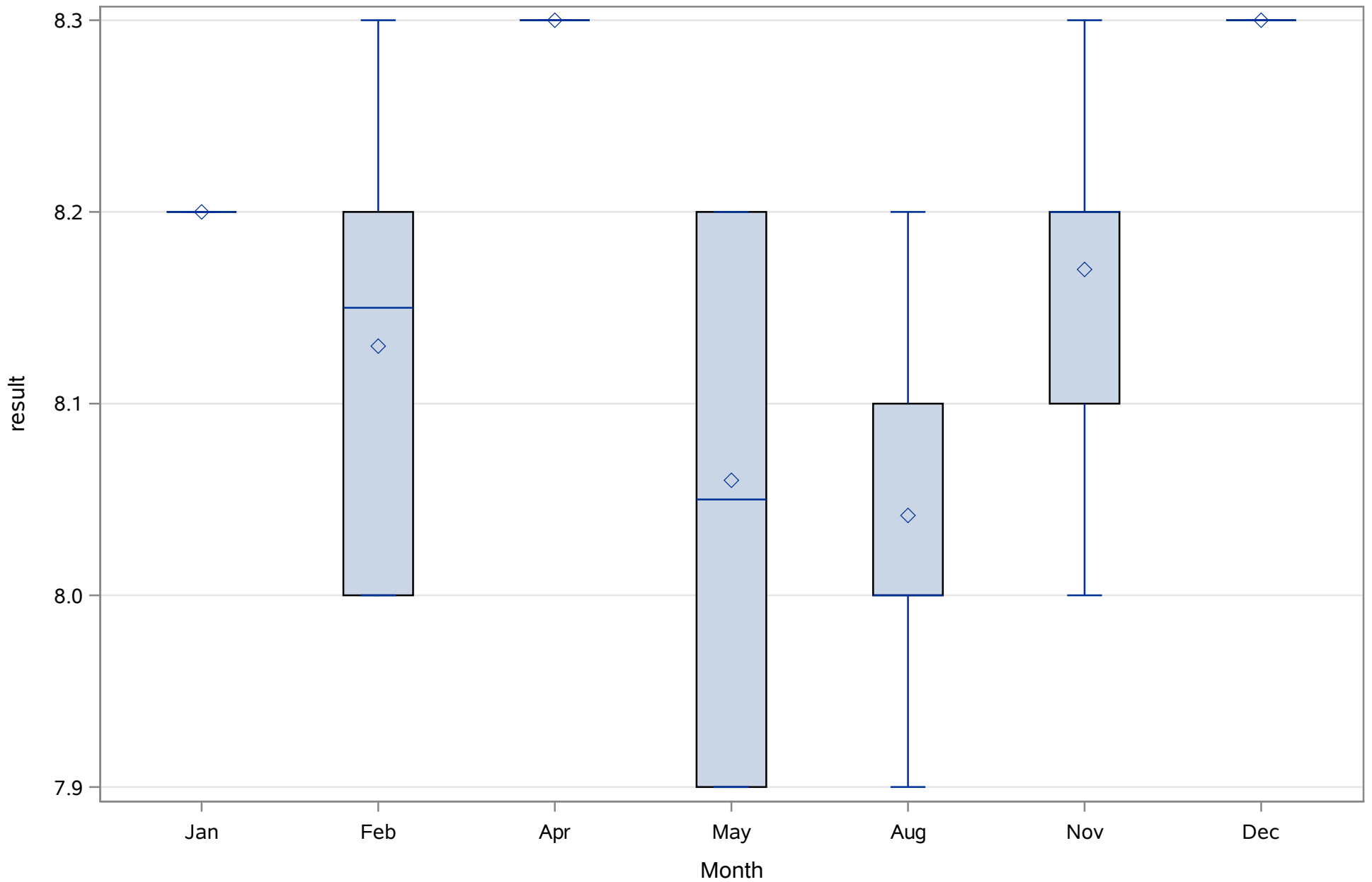
Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
TP_ugl



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Field



Chassahowitzka River - Fixed Station
Source: UF 5 Rivers Study
Transect 20
pH_Lab



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
BATTV_EXO		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
CHLA_UGL		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
COND		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
DARK_SPECTRUM_AVG		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
DEPTH_M		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
DO_MGL		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
DO_PCT		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
FDOM_QSU		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
LIGHT_SPECTRUM_AVG		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
NITRATE_MGL		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
PH		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
PH_mV		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
SAL_PPT		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
TEMP_C		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
TEMP_F		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
TURB_NTU		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
TURB_RAW		FEB2017	APR2018	9417	0.0%	0.0%	0.0%
WIPER_POS_V		FEB2017	APR2018	9417	0.0%	0.0%	0.0%

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

BATTV_EXO

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	0	Sum Observations	0
Std Deviation	0	Variance	0
Skewness	.	Kurtosis	.
Uncorrected SS	0	Corrected SS	0
Coeff Variation	.	Std Error Mean	0

Basic Statistical Measures			
Location		Variability	
Mean	0	Std Deviation	0
Median	0	Variance	0
Mode	0	Range	0
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > t	.
Sign	M	.	Pr >= M	.
Signed Rank	S	.	Pr >= S	.

Quantiles (Definition 5)	
Level	Quantile
100% Max	0
99%	0
95%	0
90%	0
75% Q3	0
50% Median	0
25% Q1	0
10%	0
5%	0
1%	0
0% Min	0

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
BATTV_EXO

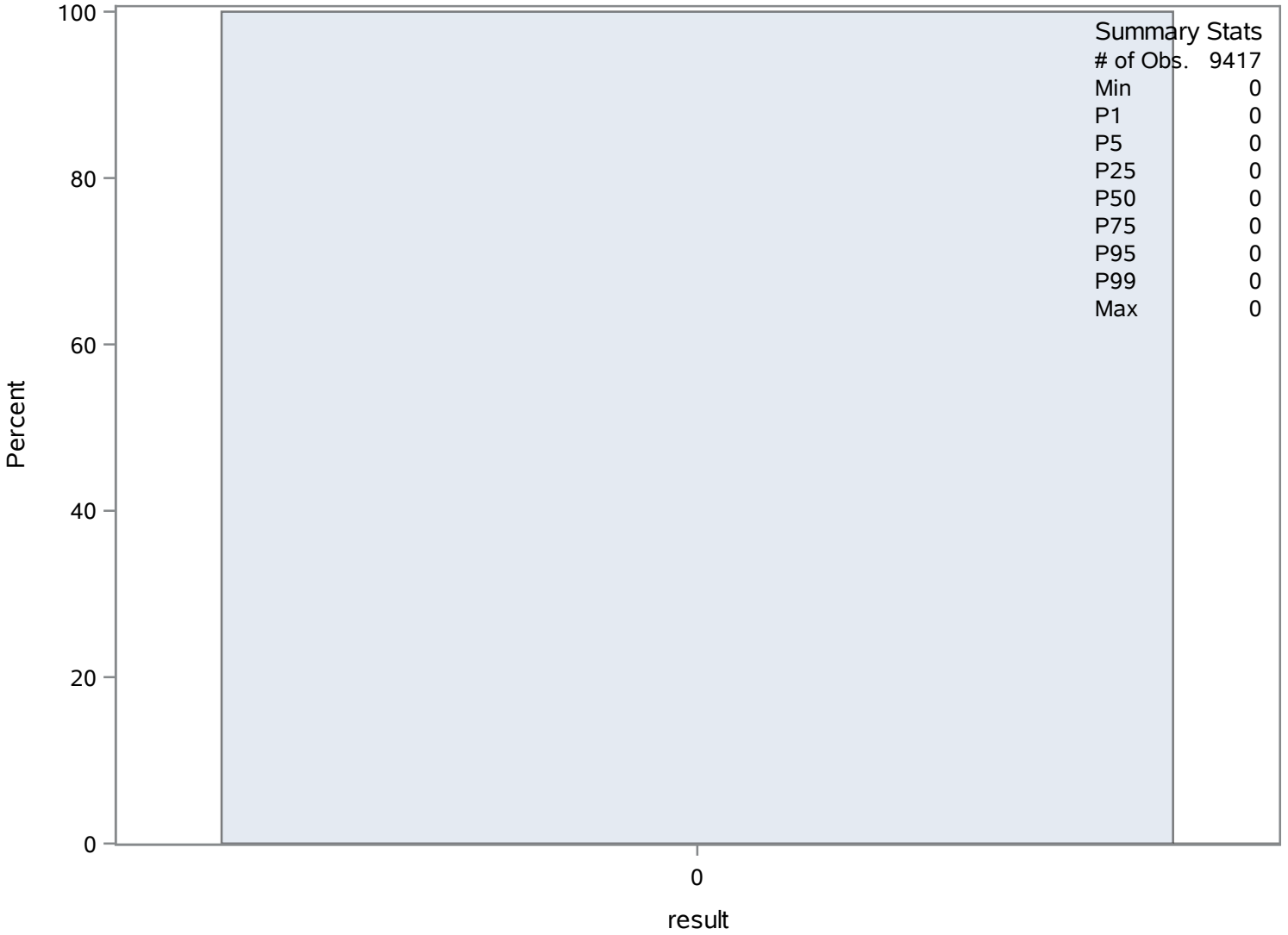
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	9417	0	9413
0	9416	0	9414
0	9415	0	9415
0	9414	0	9416
0	9413	0	9417

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
BATTV_EXO

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
CHLA_UGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	6.21444409	Sum Observations	58521.42
Std Deviation	11.132688	Variance	123.936743
Skewness	48.1393556	Kurtosis	2859.67946
Uncorrected SS	1530666.46	Corrected SS	1166988.37
Coeff Variation	179.142138	Std Error Mean	0.11472122

Basic Statistical Measures			
Location		Variability	
Mean	6.214444	Std Deviation	11.13269
Median	5.510000	Variance	123.93674
Mode	6.590000	Range	762.19000
		Interquartile Range	3.70000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	54.16996	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	762.70
99%	15.50
95%	11.31
90%	9.61
75% Q3	7.45
50% Median	5.51
25% Q1	3.75
10%	2.64
5%	2.23
1%	1.73
0% Min	0.51

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
CHLA_UGL

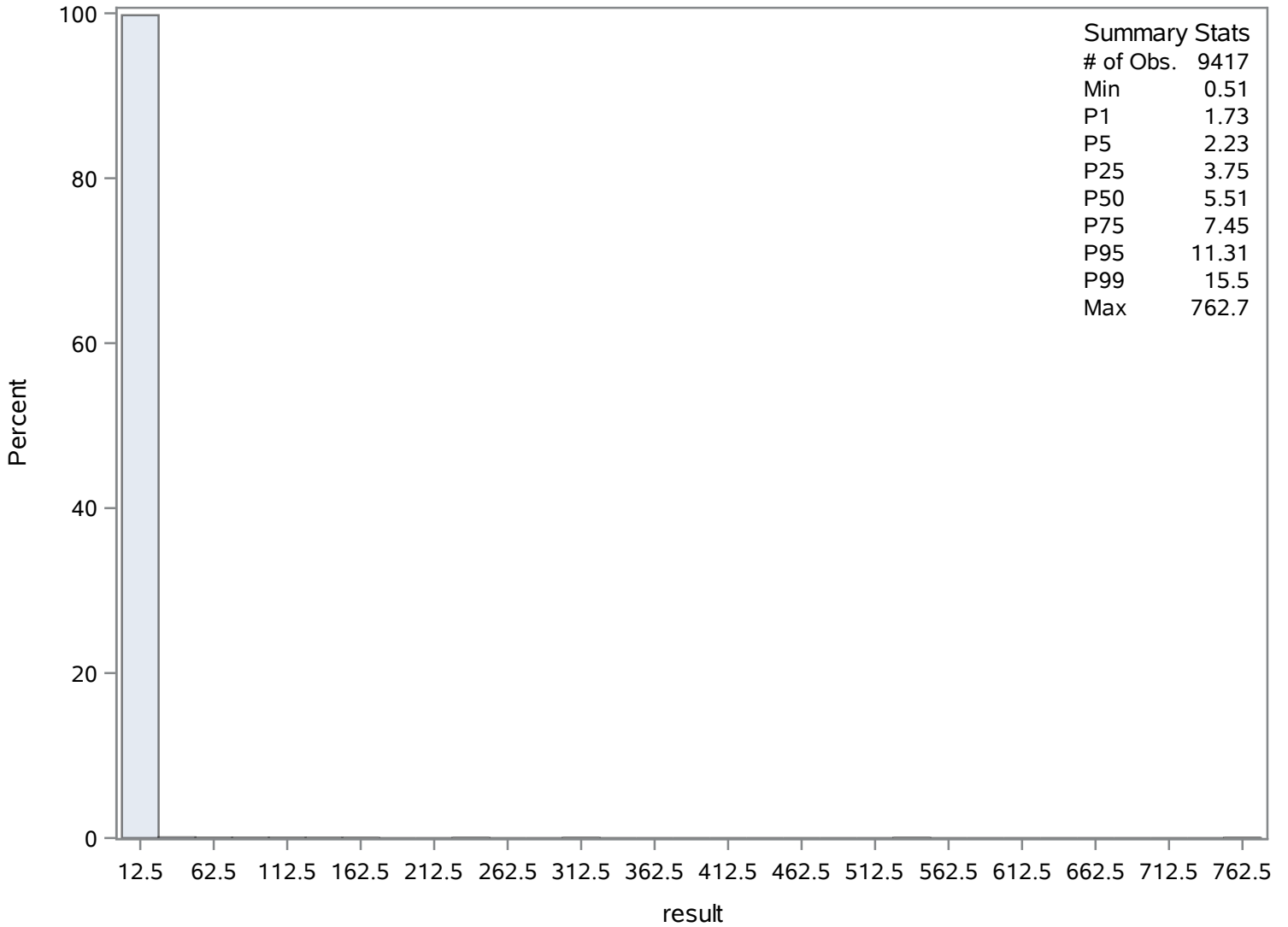
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.51	16991	151.0	9949
0.57	16682	235.0	10693
0.61	16680	310.2	11208
0.61	16678	527.4	11102
0.63	16684	762.7	11196

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
CHLA_UGL

The UNIVARIATE Procedure

Distribution of result



Summary Stats

# of Obs.	9417
Min	0.51
P1	1.73
P5	2.23
P25	3.75
P50	5.51
P75	7.45
P95	11.31
P99	15.5
Max	762.7

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

COND

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	21563.0846	Sum Observations	203059568
Std Deviation	5455.51363	Variance	29762629
Skewness	0.07383926	Kurtosis	-0.2687806
Uncorrected SS	4.65884E12	Corrected SS	2.80245E11
Coeff Variation	25.3002469	Std Error Mean	56.2185138

Basic Statistical Measures			
Location		Variability	
Mean	21563.08	Std Deviation	5456
Median	21425.56	Variance	29762629
Mode	12116.10	Range	39817
		Interquartile Range	7808

Note: The mode displayed is the smallest of 26 modes with a count of 2.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	383.5584	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	39849.3
99%	33826.8
95%	30835.0
90%	28984.4
75% Q3	25395.2
50% Median	21425.6
25% Q1	17586.9
10%	14472.1
5%	12945.1

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

COND

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	10686.1
0% Min	32.2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
32.20	26100	37709.1	20624
32.40	26651	38395.0	20623
32.49	26099	39240.1	21068
34.51	26101	39444.5	21067
38.01	26098	39849.3	21069

Chassahowitzka River - Continuous Recorder

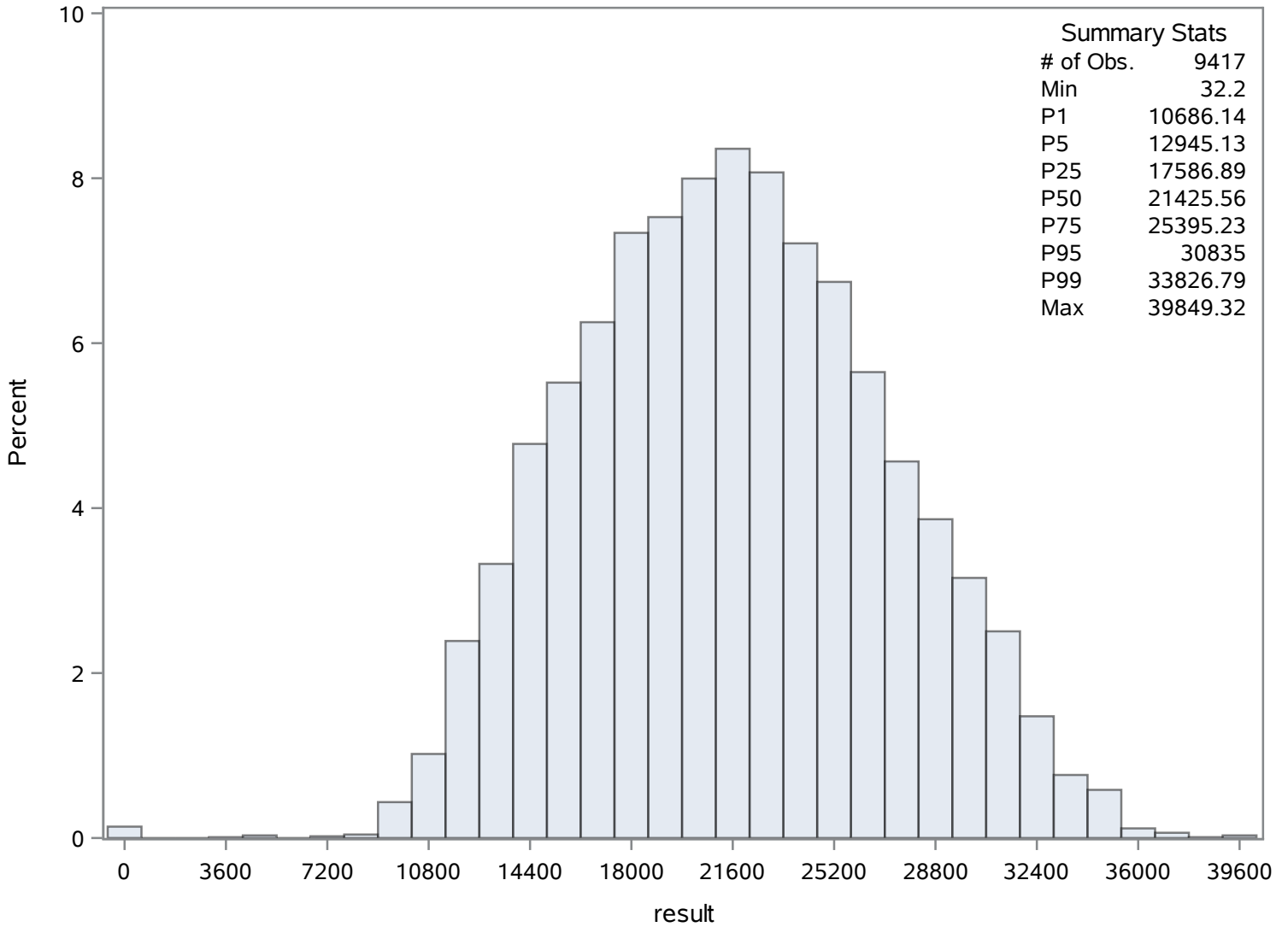
Source: Continuous Recorder

Chass Near Mouth

COND

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

DARK_SPECTRUM_AVG

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	879.330572	Sum Observations	8280656
Std Deviation	96.3802793	Variance	9289.15823
Skewness	0.79905365	Kurtosis	-0.531774
Uncorrected SS	7368900694	Corrected SS	87466713.9
Coeff Variation	10.9606424	Std Error Mean	0.99318899

Basic Statistical Measures			
Location		Variability	
Mean	879.3306	Std Deviation	96.38028
Median	844.0000	Variance	9289
Mode	795.0000	Range	411.00000
		Interquartile Range	150.00000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	885.3608	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1158
99%	1112
95%	1063
90%	1032
75% Q3	955
50% Median	844
25% Q1	805
10%	782
5%	766
1%	753
0% Min	747

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DARK_SPECTRUM_AVG

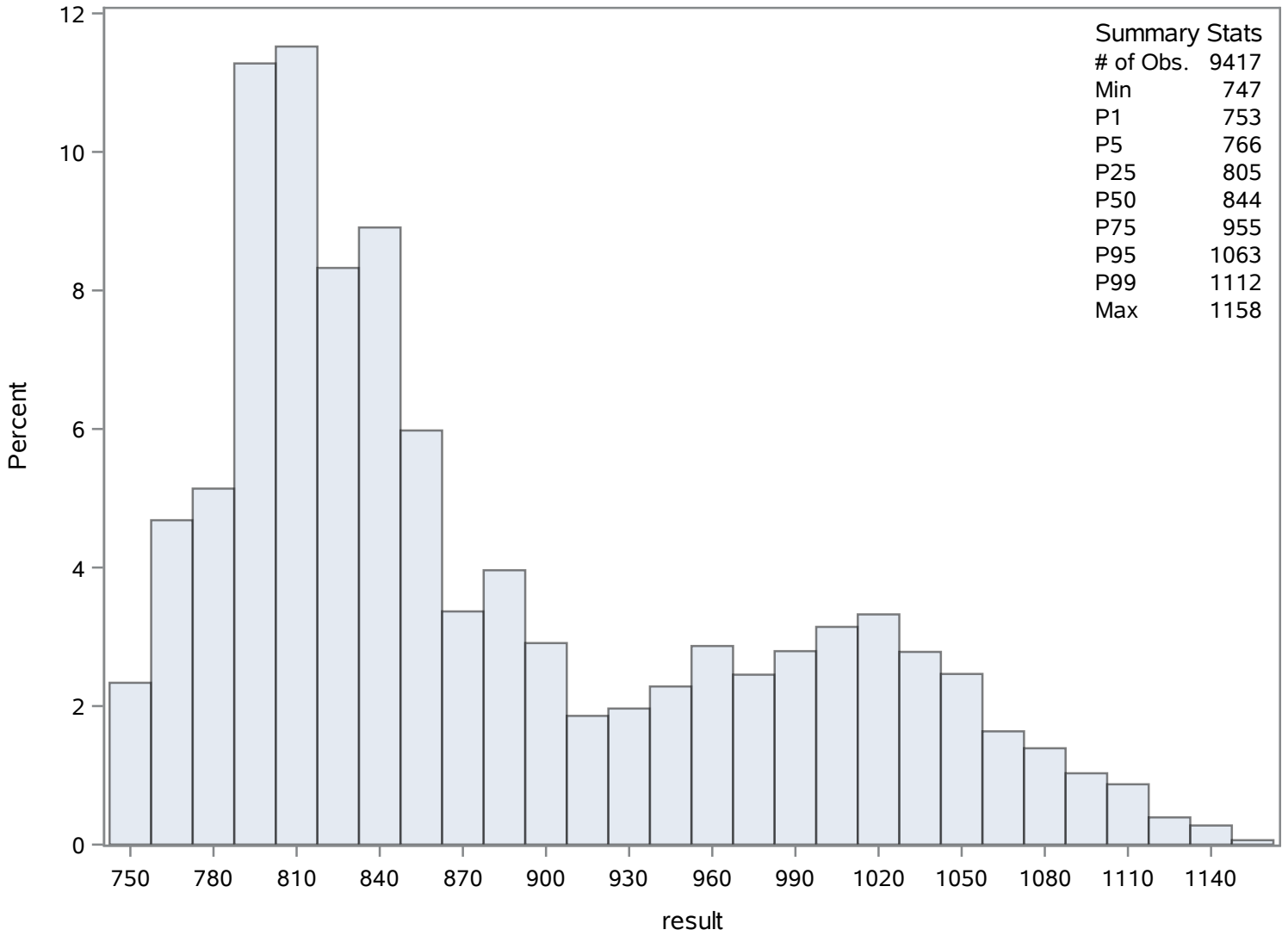
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
747	37211	1150	31377
747	37188	1150	32453
748	37213	1151	31471
748	37210	1155	31374
748	37187	1158	31375

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DARK_SPECTRUM_AVG

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

DEPTH_M

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	0.69340565	Sum Observations	6529.801
Std Deviation	0.27186768	Variance	0.07391203
Skewness	-0.0272162	Kurtosis	-0.3654964
Uncorrected SS	5223.75662	Corrected SS	695.95572
Coeff Variation	39.207595	Std Error Mean	0.00280157

Basic Statistical Measures			
Location		Variability	
Mean	0.693406	Std Deviation	0.27187
Median	0.701000	Variance	0.07391
Mode	0.635000	Range	1.71800
		Interquartile Range	0.39400

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	247.5062	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.722
99%	1.279
95%	1.126
90%	1.035
75% Q3	0.893
50% Median	0.701
25% Q1	0.499
10%	0.329
5%	0.233
1%	0.103
0% Min	0.004

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DEPTH_M

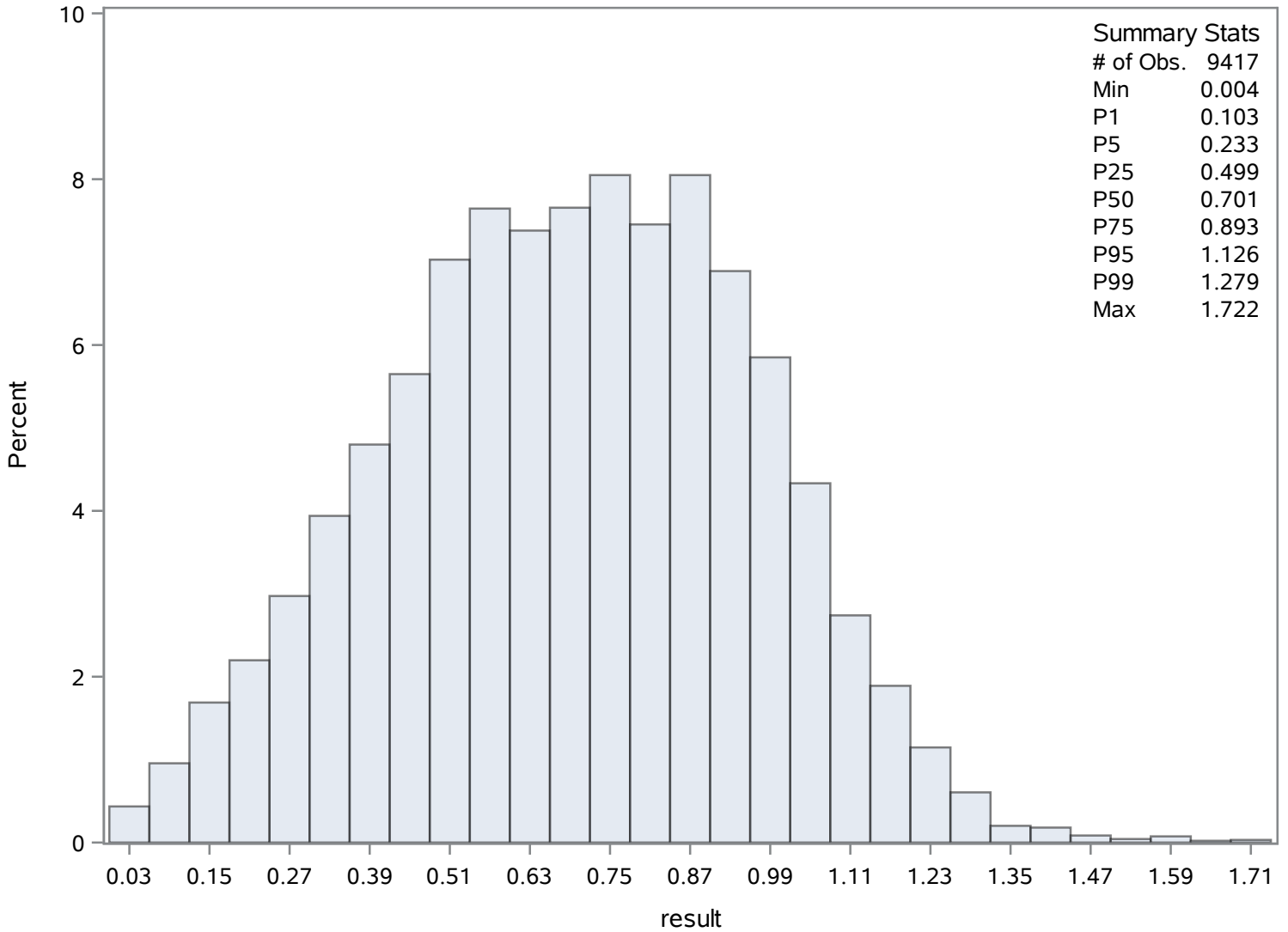
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	45622	1.636	42849
0.005	45474	1.642	42823
0.007	45599	1.692	42859
0.009	46361	1.719	42848
0.011	45621	1.722	39901

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DEPTH_M

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

DO_MGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	6.61912923	Sum Observations	62332.34
Std Deviation	1.84786314	Variance	3.4145982
Skewness	0.46090733	Kurtosis	-0.0575867
Uncorrected SS	444737.671	Corrected SS	32151.8567
Coeff Variation	27.9170126	Std Error Mean	0.01904204

Basic Statistical Measures			
Location		Variability	
Mean	6.619129	Std Deviation	1.84786
Median	6.520000	Variance	3.41460
Mode	6.850000	Range	13.73000
		Interquartile Range	2.65000

Note: The mode displayed is the smallest of 2 modes with a count of 29.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	347.6061	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16.20
99%	11.18
95%	10.00
90%	9.07
75% Q3	7.82
50% Median	6.52
25% Q1	5.17
10%	4.28
5%	3.92

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DO_MGL

The UNIVARIATE Procedure
Variable: result

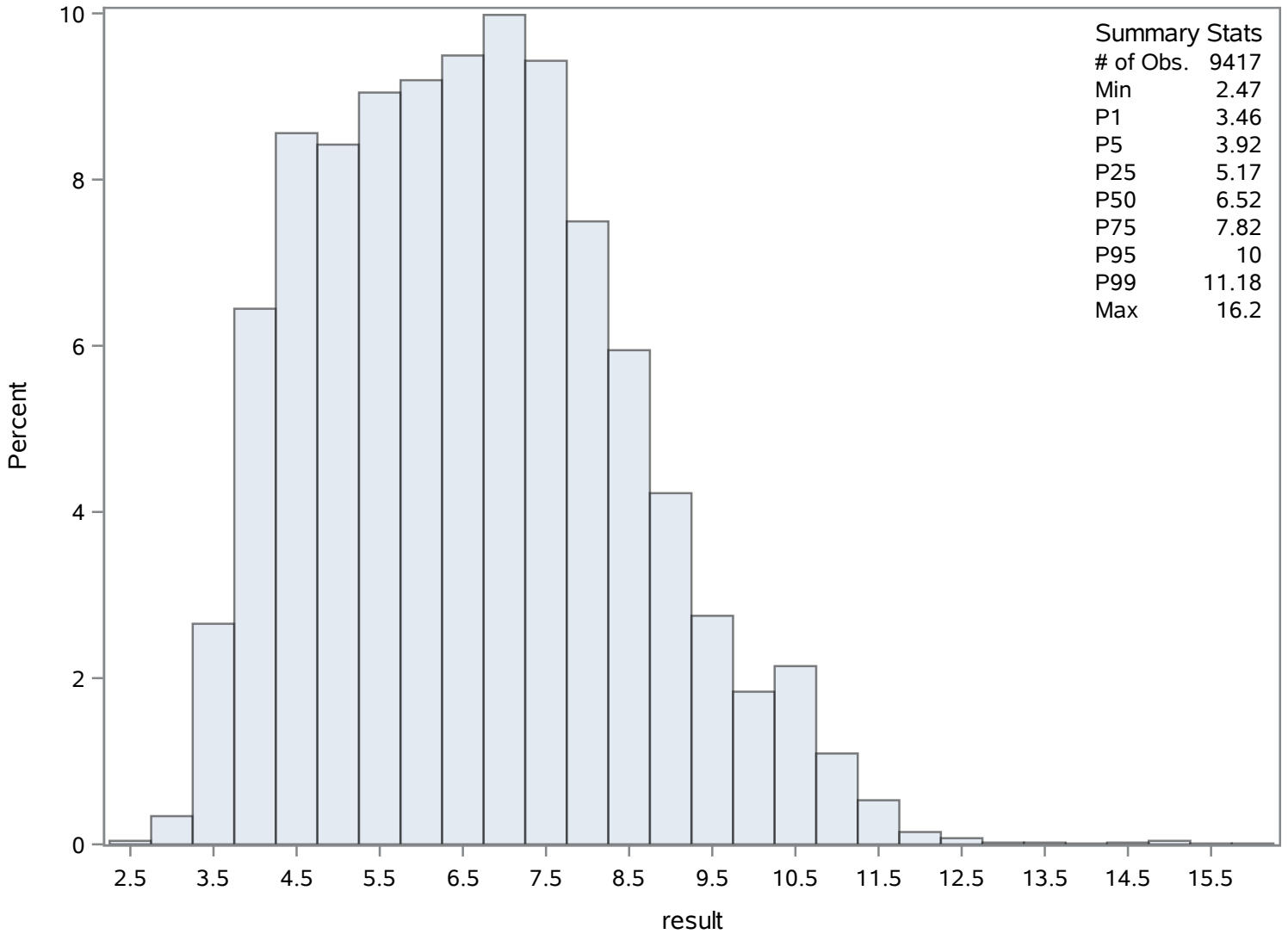
Quantiles (Definition 5)	
Level	Quantile
1%	3.46
0% Min	2.47

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.47	52323	14.82	47353
2.68	52322	14.89	47354
2.70	52312	15.09	54661
2.70	48782	15.34	47355
2.86	52348	16.20	47378

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DO_MGL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

DO_PCT

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	82.362951	Sum Observations	775611.91
Std Deviation	16.7078483	Variance	279.152195
Skewness	0.14340327	Kurtosis	0.39799392
Uncorrected SS	66510182.8	Corrected SS	2628497.07
Coeff Variation	20.2856358	Std Error Mean	0.17217268

Basic Statistical Measures			
Location		Variability	
Mean	82.36295	Std Deviation	16.70785
Median	83.20000	Variance	279.15219
Mode	89.00000	Range	159.47000
		Interquartile Range	23.59000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	478.3741	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	193.40
99%	120.80
95%	107.80
90%	102.80
75% Q3	94.10
50% Median	83.20
25% Q1	70.51
10%	59.51
5%	54.55
1%	48.05
0% Min	33.93

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DO_PCT

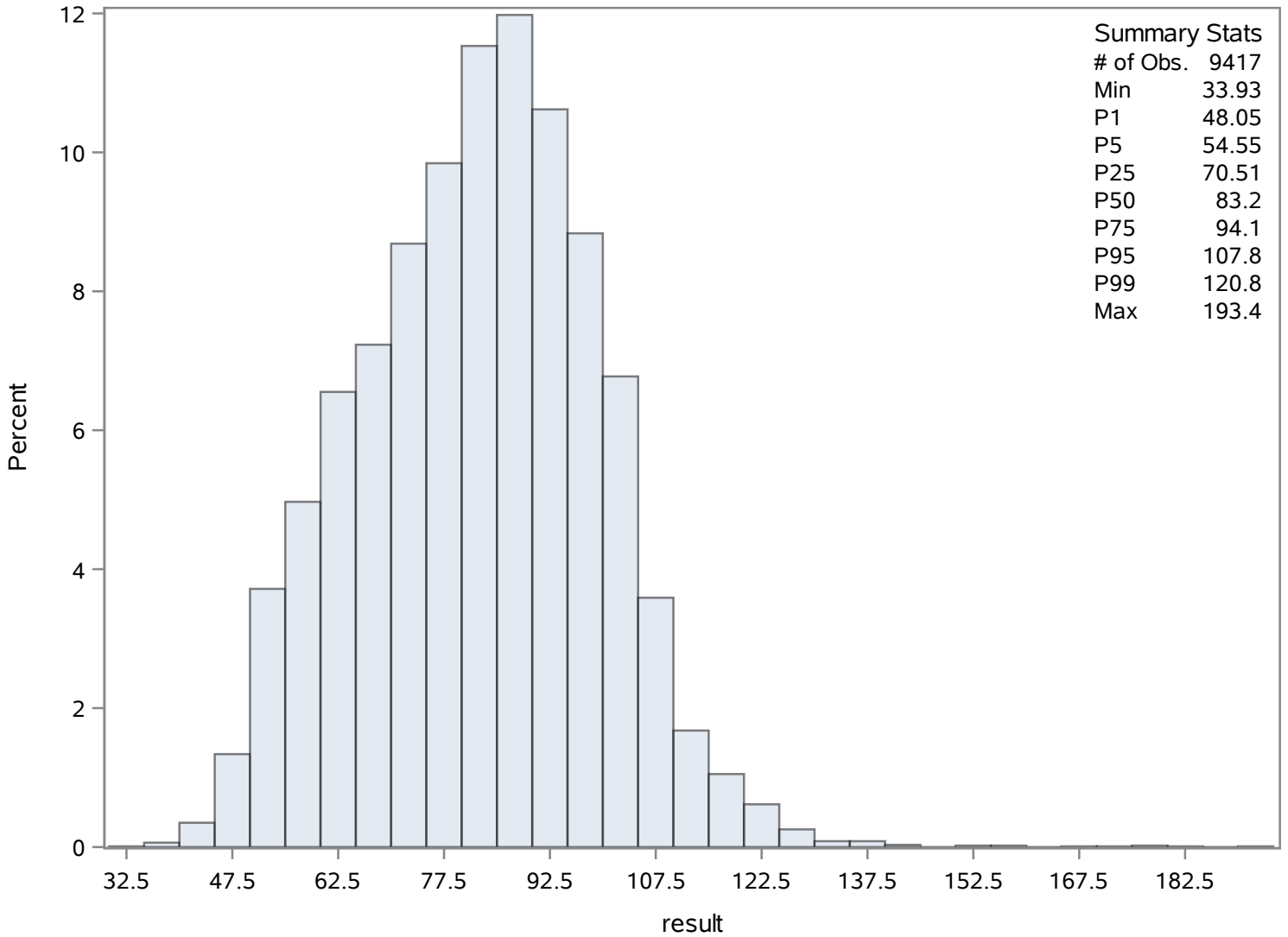
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
33.93	61740	173.0	56796
36.73	61739	175.9	56770
37.17	58199	177.5	56771
37.56	61729	183.3	56772
39.14	58224	193.4	56795

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DO_PCT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
FDOM_QSU

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	48.5839195	Sum Observations	457514.77
Std Deviation	38.3015138	Variance	1467.00596
Skewness	0.01351006	Kurtosis	-1.0850933
Uncorrected SS	36041188.9	Corrected SS	13813328.1
Coeff Variation	78.8357839	Std Error Mean	0.39469321

Basic Statistical Measures			
Location		Variability	
Mean	48.58392	Std Deviation	38.30151
Median	53.10000	Variance	1467
Mode	0.00000	Range	176.70000
		Interquartile Range	79.23000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	123.0929	Pr > t 	<.0001
Sign	M	3211	Pr >= M 	<.0001
Signed Rank	S	10312127	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	176.70
99%	130.38
95%	103.67
90%	94.93
75% Q3	79.23
50% Median	53.10
25% Q1	0.00
10%	0.00
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
FDOM_QSU

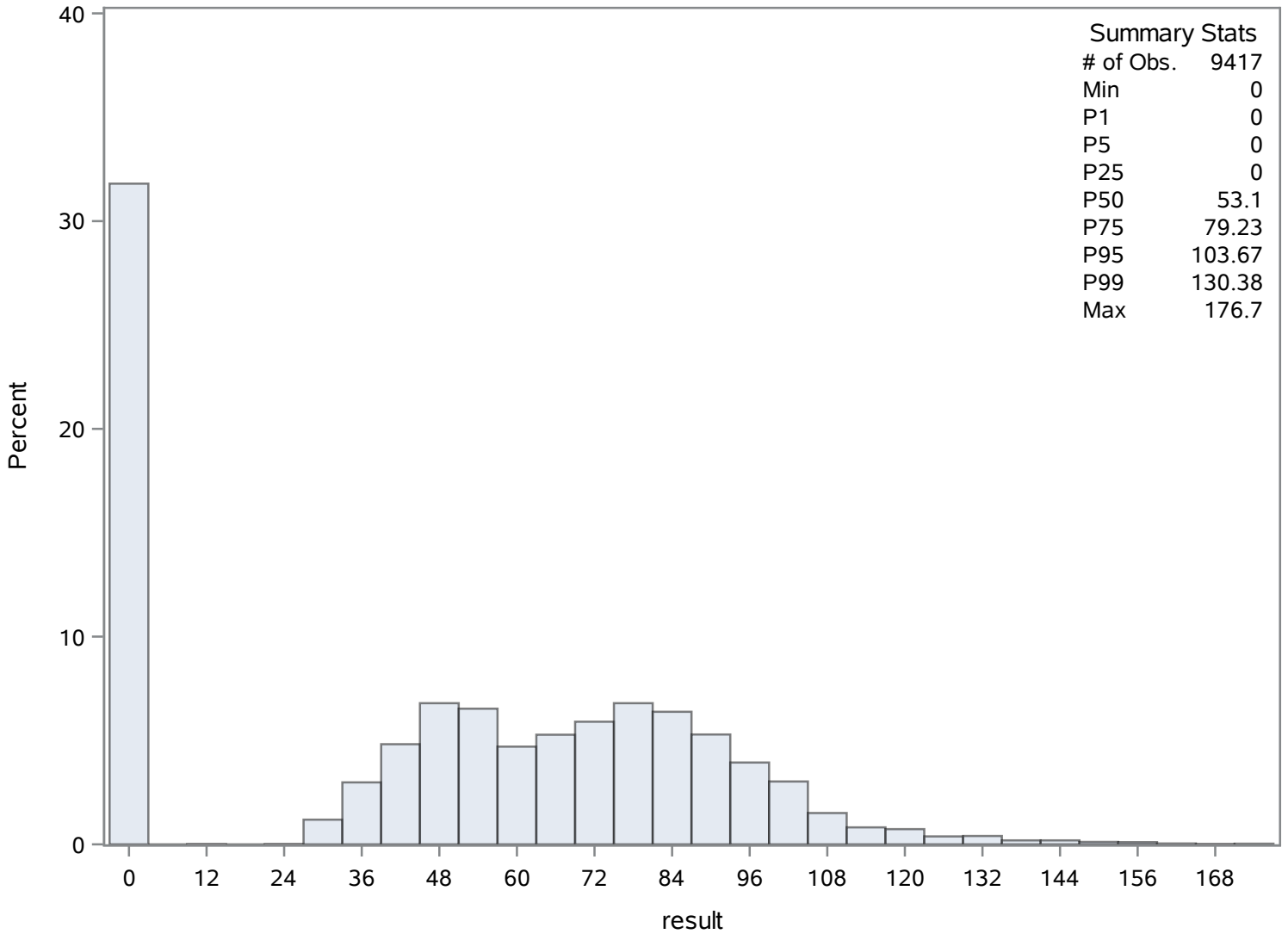
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	75336	164.64	70488
0	75335	165.98	70505
0	75334	171.58	70489
0	75333	172.28	70503
0	75332	176.70	70504

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
FDOM_QSU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
LIGHT_SPECTRUM_AVG

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	17443.4376	Sum Observations	164264852
Std Deviation	1973.64544	Variance	3895276.31
Skewness	-0.6149263	Kurtosis	1.23458562
Uncorrected SS	2.90202E12	Corrected SS	3.66779E10
Coeff Variation	11.3145441	Std Error Mean	20.3382157

Basic Statistical Measures			
Location		Variability	
Mean	17443.44	Std Deviation	1974
Median	17650.00	Variance	3895276
Mode	15281.00	Range	20613
		Interquartile Range	3139

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	857.668	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	21555
99%	20786
95%	20319
90%	19882
75% Q3	19029
50% Median	17650
25% Q1	15890
10%	15006
5%	14448
1%	12294
0% Min	942

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
LIGHT_SPECTRUM_AVG

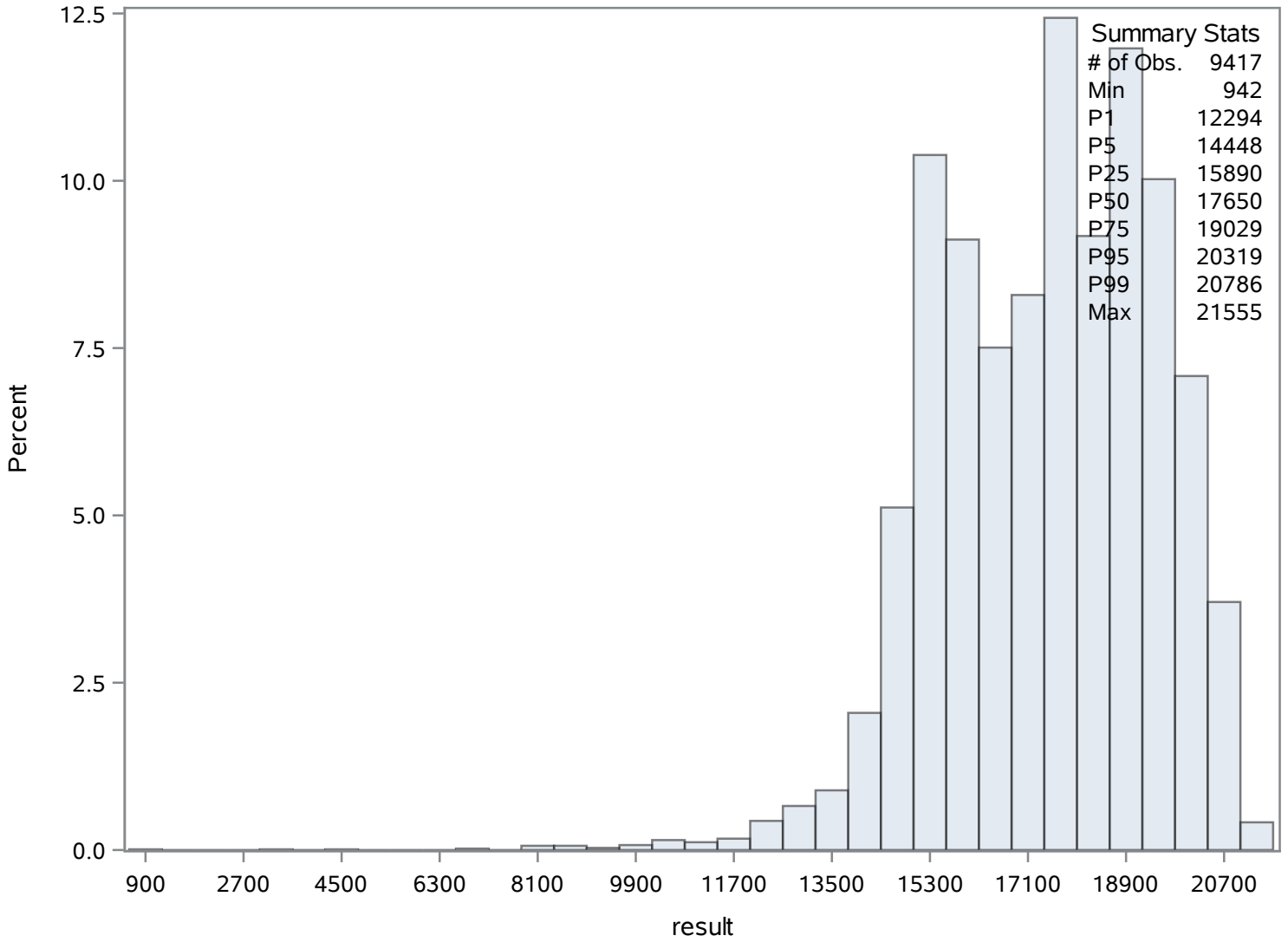
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
942	76180	21455	76076
3312	82560	21483	83120
4722	80786	21486	82864
6695	80785	21549	83104
7078	80790	21555	83107

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
LIGHT_SPECTRUM_AVG

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

NITRATE_MGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	0.11187937	Sum Observations	1053.568
Std Deviation	0.05222002	Variance	0.00272693
Skewness	1.67305031	Kurtosis	25.6552112
Uncorrected SS	143.549296	Corrected SS	25.676775
Coeff Variation	46.6752886	Std Error Mean	0.00053812

Basic Statistical Measures			
Location		Variability	
Mean	0.111879	Std Deviation	0.05222
Median	0.105000	Variance	0.00273
Mode	0.080000	Range	1.30500
		Interquartile Range	0.07200

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	207.9071	Pr > t 	<.0001
Sign	M	4704.5	Pr >= M 	<.0001
Signed Rank	S	22171788	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.270
99%	0.248
95%	0.201
90%	0.179
75% Q3	0.146
50% Median	0.105
25% Q1	0.074
10%	0.052
5%	0.039
1%	0.016
0% Min	-0.035

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
NITRATE_MGL

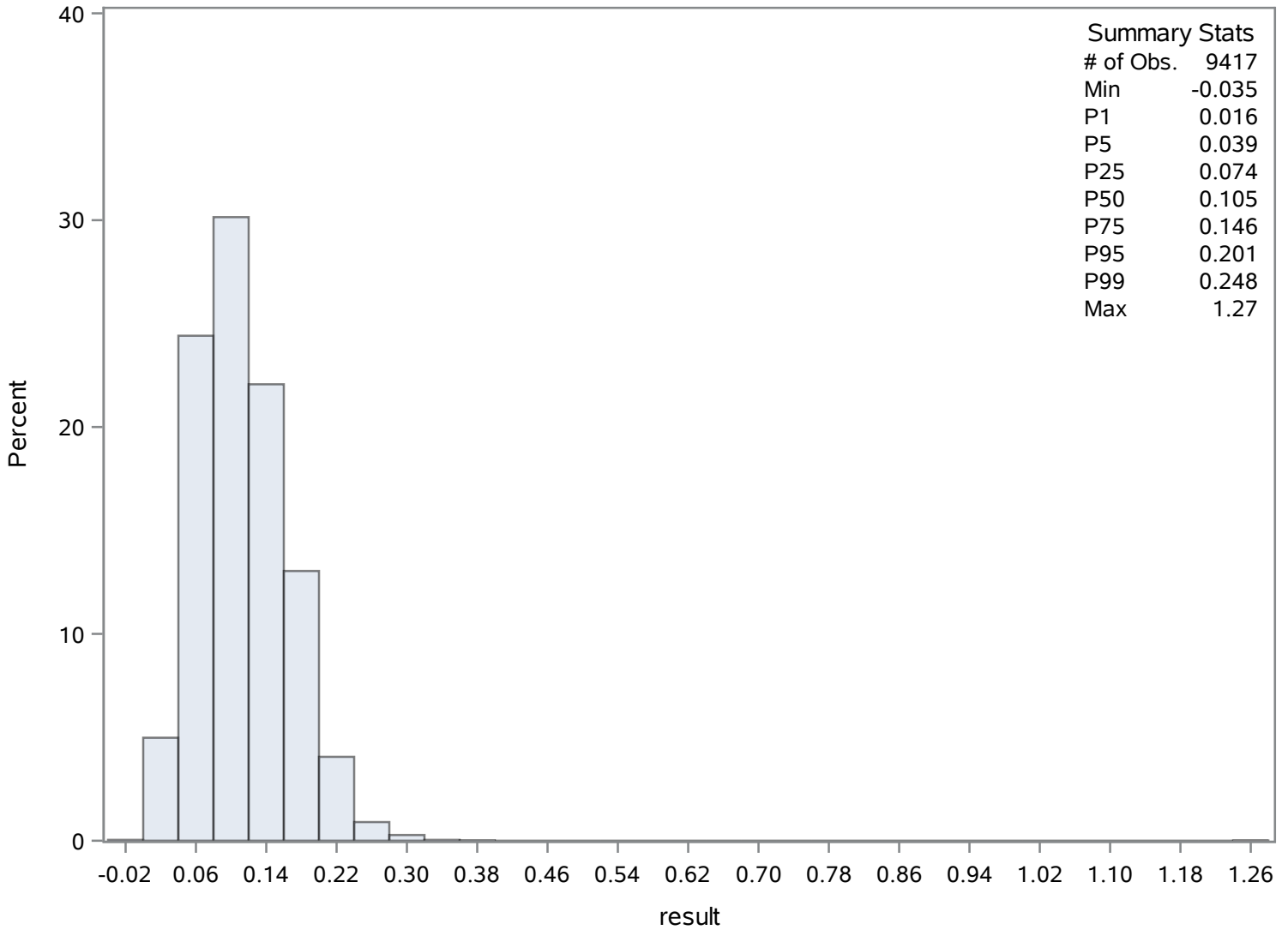
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.035	94158	0.343	90229
-0.012	94023	0.350	91946
-0.011	94032	0.378	91942
-0.010	94157	0.387	91944
0.001	87946	1.270	93310

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
NITRATE_MGL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

PH

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	7.9176999	Sum Observations	74560.98
Std Deviation	0.21330519	Variance	0.04549911
Skewness	0.10372425	Kurtosis	-0.8044298
Uncorrected SS	590779.884	Corrected SS	428.41958
Coeff Variation	2.69402979	Std Error Mean	0.00219809

Basic Statistical Measures			
Location		Variability	
Mean	7.917700	Std Deviation	0.21331
Median	7.910000	Variance	0.04550
Mode	7.800000	Range	1.33000
		Interquartile Range	0.33000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	3602.084	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.64
99%	8.36
95%	8.27
90%	8.21
75% Q3	8.08
50% Median	7.91
25% Q1	7.75
10%	7.64
5%	7.59
1%	7.51
0% Min	7.31

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
PH

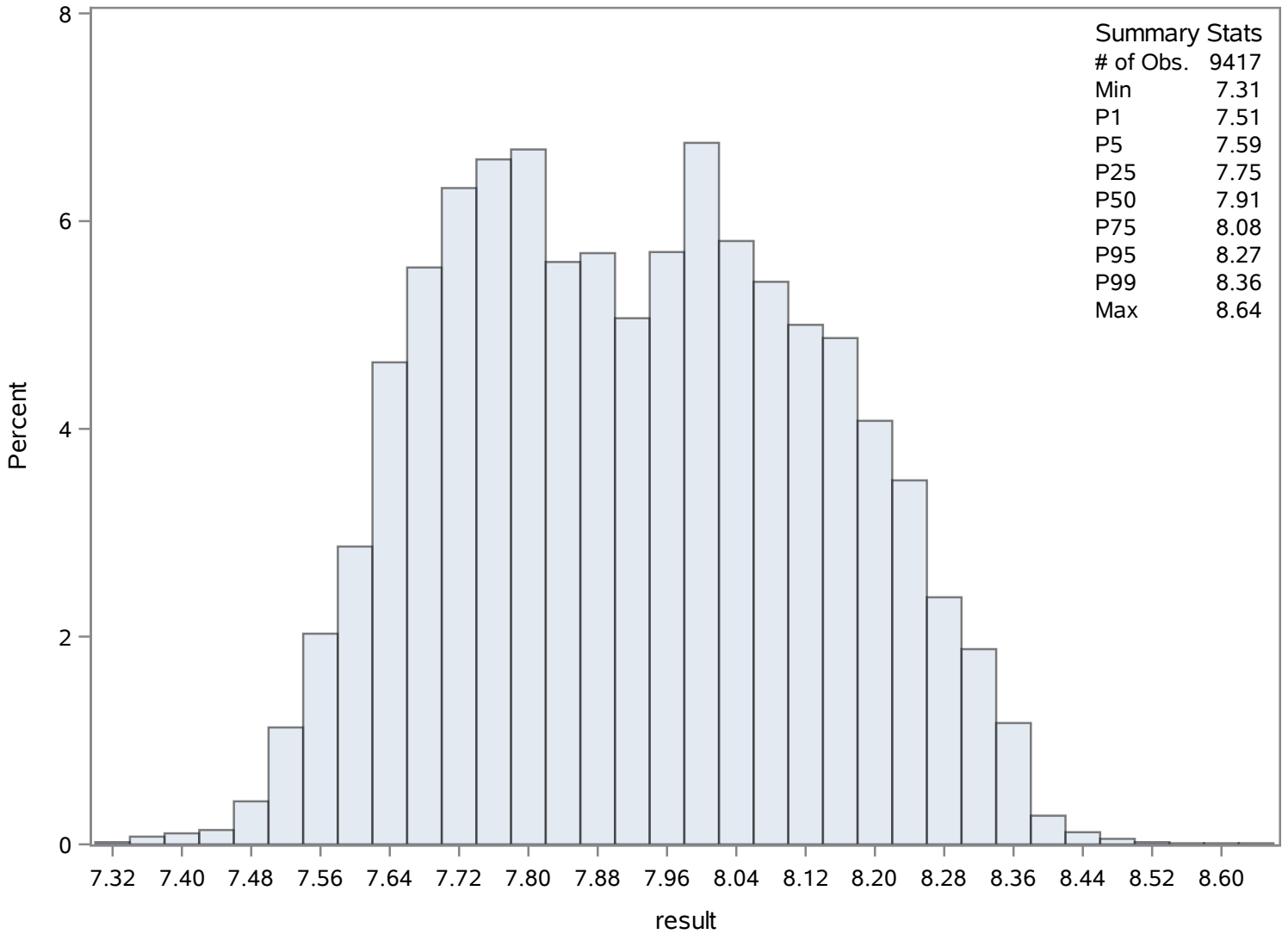
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.31	99395	8.51	94438
7.33	99394	8.53	94464
7.35	99396	8.56	94439
7.37	99419	8.59	94463
7.37	99398	8.64	94440

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
PH

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

PH_mV

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	-84.209867	Sum Observations	-793004.32
Std Deviation	15.0382985	Variance	226.150423
Skewness	-0.46125	Kurtosis	-0.3148395
Uncorrected SS	68908220.9	Corrected SS	2129432.38
Coeff Variation	-17.858119	Std Error Mean	0.15496814

Basic Statistical Measures			
Location		Variability	
Mean	-84.2099	Std Deviation	15.03830
Median	-82.4000	Variance	226.15042
Mode	-81.2000	Range	85.60000
		Interquartile Range	22.06000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	-543.401	Pr > t 	<.0001
Sign	M	-4708.5	Pr >= M 	<.0001
Signed Rank	S	-2.217E7	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	-45.50
99%	-57.57
95%	-62.97
90%	-66.14
75% Q3	-72.54
50% Median	-82.40
25% Q1	-94.60
10%	-104.40
5%	-112.10
1%	-122.90
0% Min	-131.10

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
PH_mV

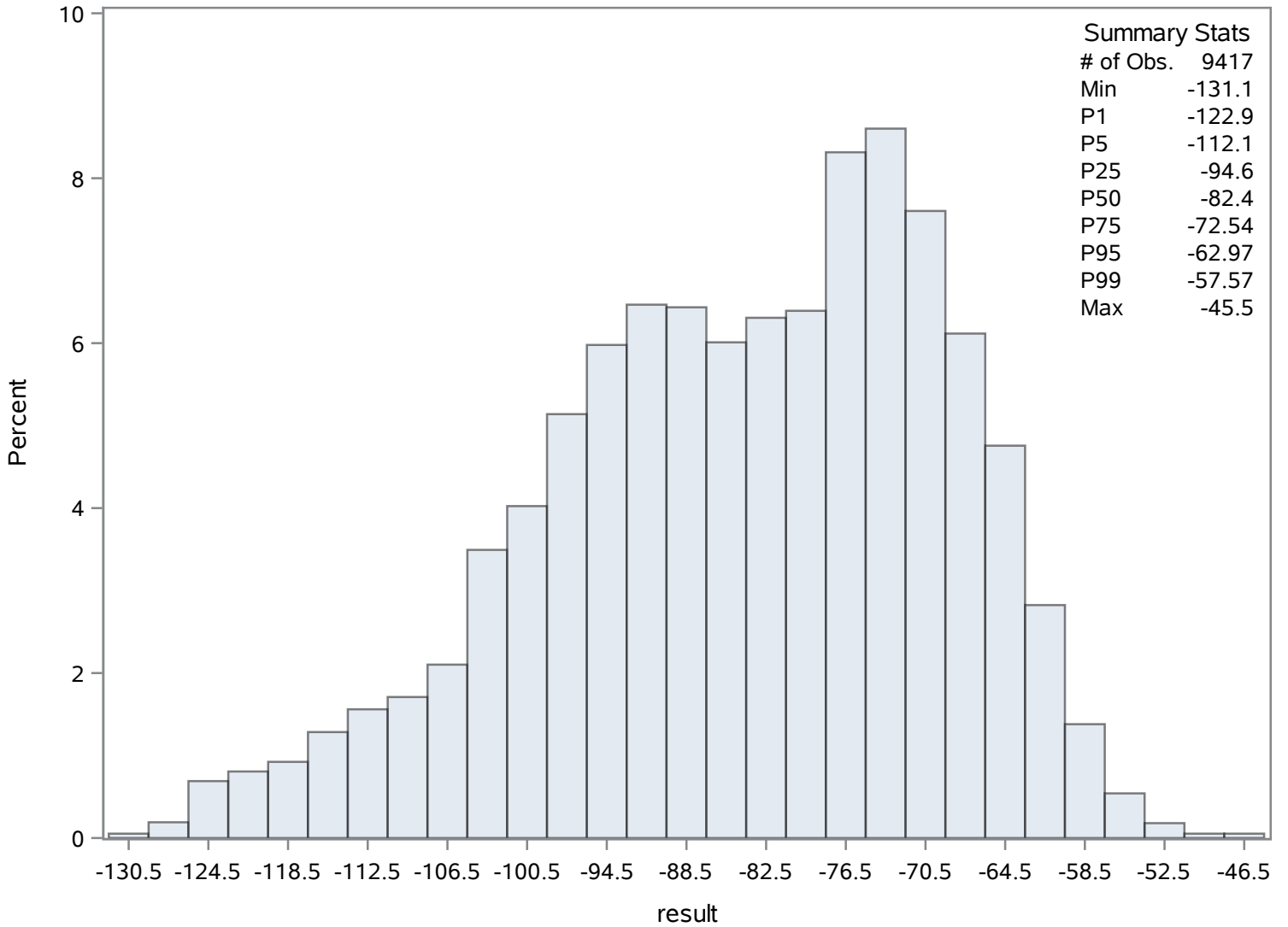
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-131.1	112367	-47.06	105851
-130.6	112342	-46.06	105855
-130.5	112341	-45.96	105852
-130.4	112366	-45.51	105853
-129.5	112365	-45.50	105854

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
PH_mV

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
SAL_PPT

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	12.9838547	Sum Observations	122268.96
Std Deviation	3.55791471	Variance	12.6587571
Skewness	0.15793264	Kurtosis	-0.3105273
Uncorrected SS	1706717.27	Corrected SS	119194.857
Coeff Variation	27.4026072	Std Error Mean	0.03666395

Basic Statistical Measures			
Location		Variability	
Mean	12.98385	Std Deviation	3.55791
Median	12.85000	Variance	12.65876
Mode	11.99000	Range	25.36000
		Interquartile Range	5.09000

Note: The mode displayed is the smallest of 3 modes with a count of 20.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	354.1314	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	25.37
99%	21.20
95%	19.11
90%	17.89
75% Q3	15.45
50% Median	12.85
25% Q1	10.36
10%	8.41
5%	7.47

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
SAL_PPT

The UNIVARIATE Procedure
Variable: result

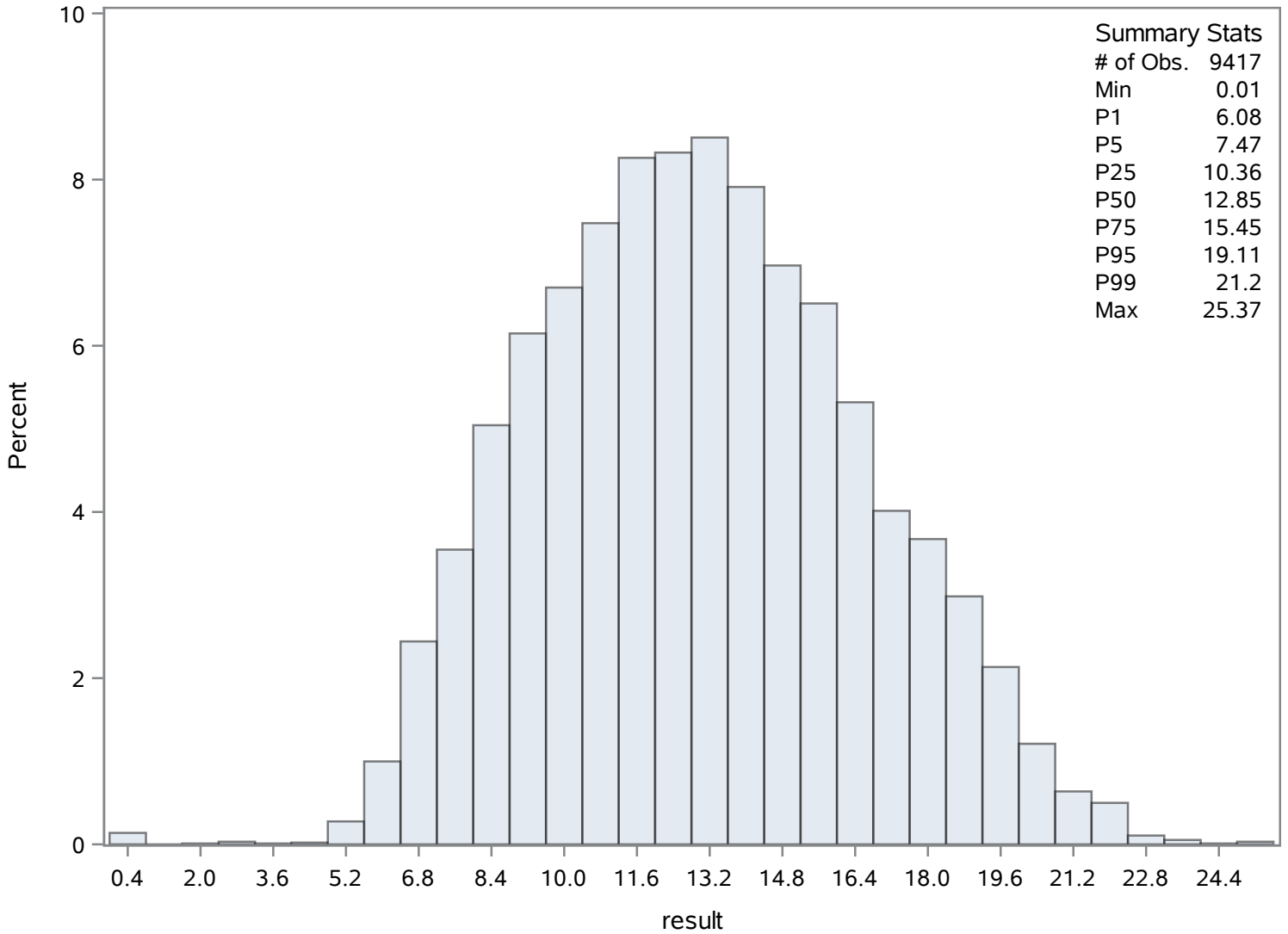
Quantiles (Definition 5)	
Level	Quantile
1%	6.08
0% Min	0.01

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	120821	23.95	114794
0.01	120270	24.43	114793
0.01	120269	24.94	115238
0.02	120271	25.08	115237
0.02	120268	25.37	115239

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
SAL_PPT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	23.6808101	Sum Observations	223002.189
Std Deviation	5.38064073	Variance	28.9512947
Skewness	-0.3989455	Kurtosis	-0.5493743
Uncorrected SS	5553477.89	Corrected SS	272605.391
Coeff Variation	22.721523	Std Error Mean	0.05544696

Basic Statistical Measures			
Location		Variability	
Mean	23.68081	Std Deviation	5.38064
Median	23.91000	Variance	28.95129
Mode	20.50000	Range	25.63200
		Interquartile Range	8.46000

Note: The mode displayed is the smallest of 3 modes with a count of 15.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	427.0895	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	33.040
99%	32.170
95%	31.130
90%	30.410
75% Q3	28.460
50% Median	23.910
25% Q1	20.000
10%	16.420
5%	14.480

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_C

The UNIVARIATE Procedure
Variable: result

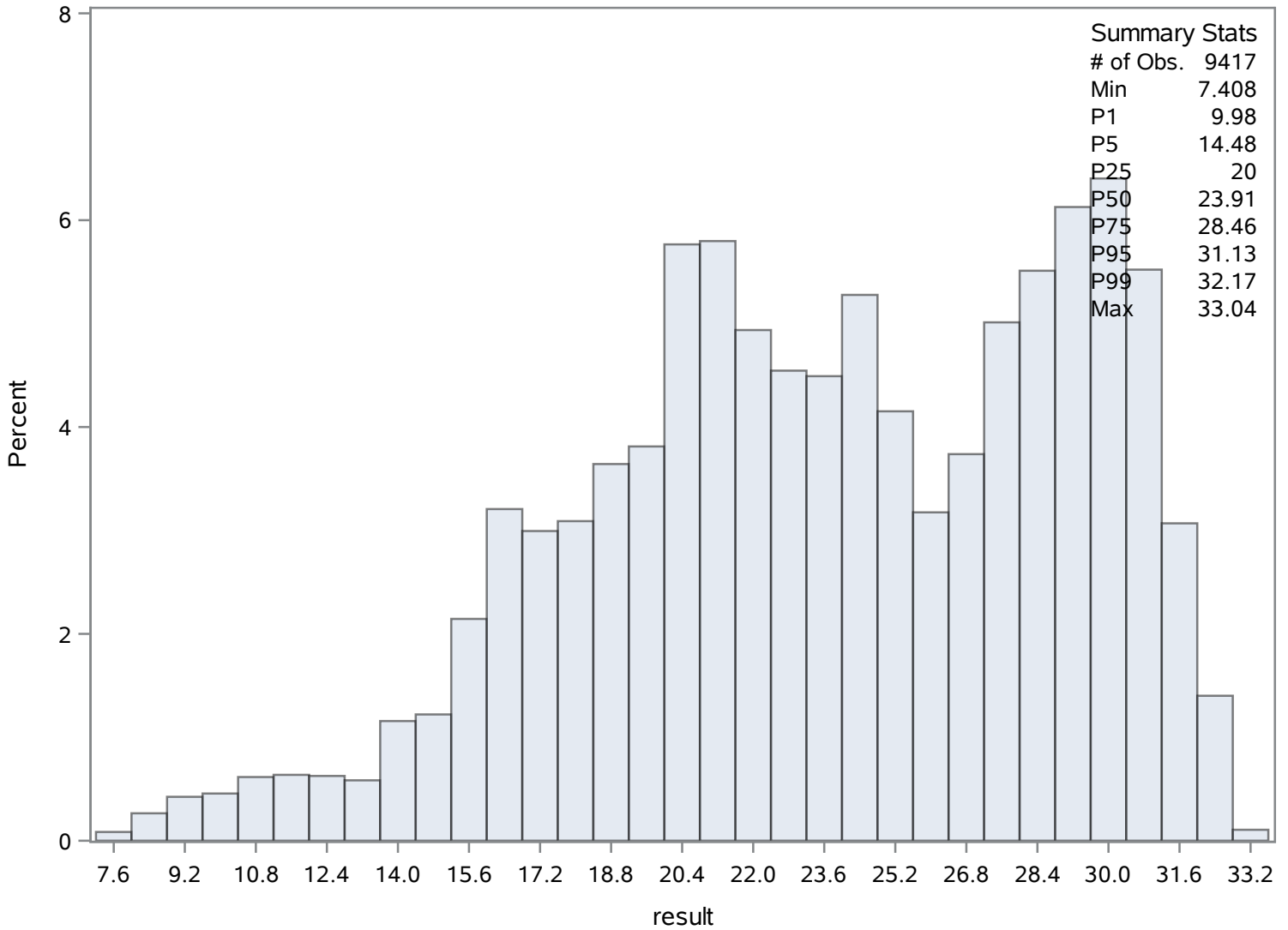
Quantiles (Definition 5)	
Level	Quantile
1%	9.980
0% Min	7.408

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.408	129682	32.87	125663
7.749	129683	32.91	126670
7.768	129687	32.95	125688
7.922	129724	33.01	125592
7.929	129726	33.04	125591

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_F

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	74.6246713	Sum Observations	702740.53
Std Deviation	9.68517645	Variance	93.8026429
Skewness	-0.3989515	Kurtosis	-0.5492945
Uncorrected SS	53325026.8	Corrected SS	883245.685
Coeff Variation	12.9785181	Std Error Mean	0.09980476

Basic Statistical Measures			
Location		Variability	
Mean	74.62467	Std Deviation	9.68518
Median	75.03000	Variance	93.80264
Mode	84.70000	Range	46.17000
		Interquartile Range	15.19000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	747.7065	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	91.50
99%	89.90
95%	88.00
90%	86.70
75% Q3	83.20
50% Median	75.03
25% Q1	68.01
10%	61.56
5%	58.06
1%	49.97
0% Min	45.33

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_F

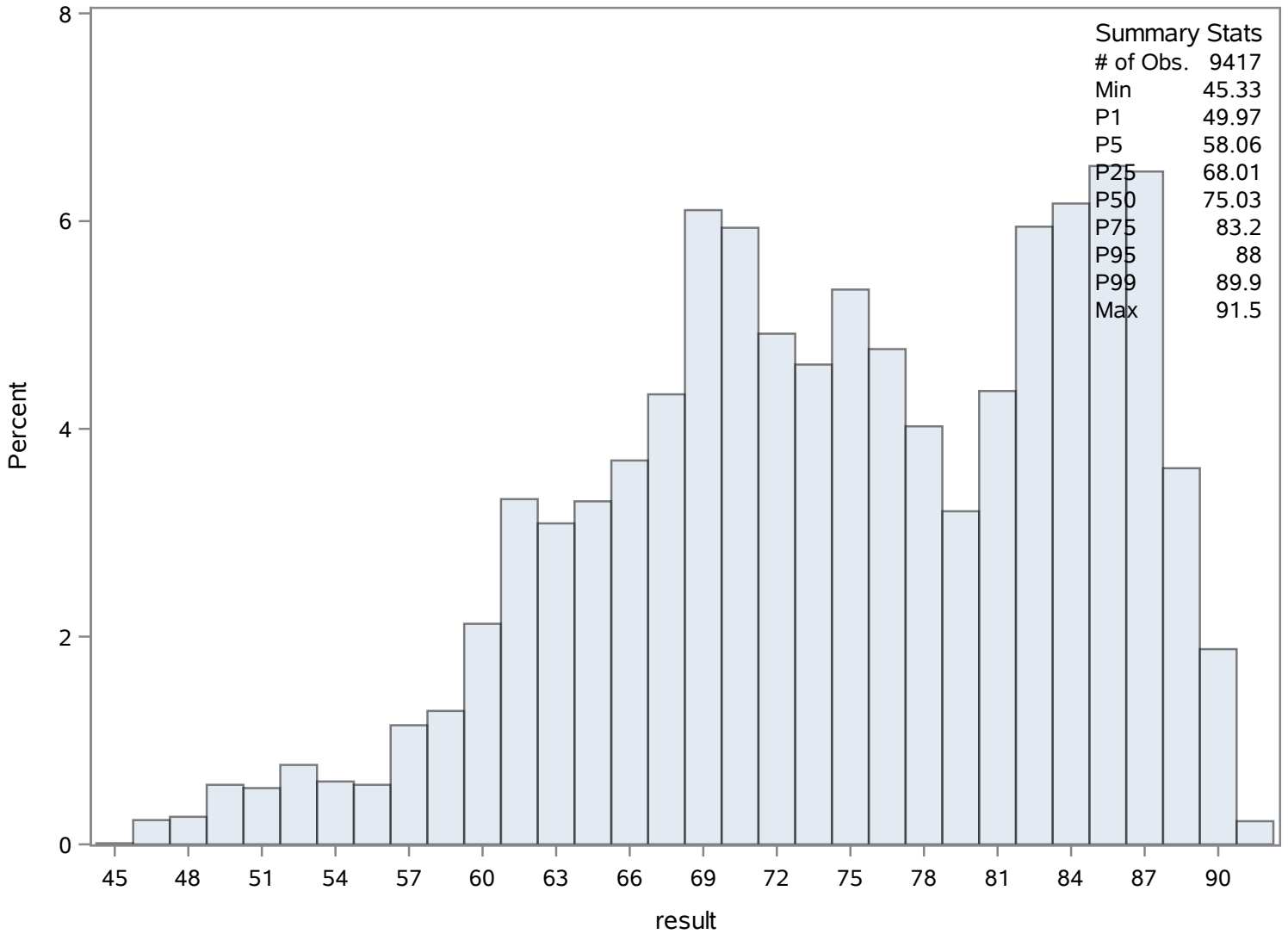
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
45.33	139099	91.2	135080
45.95	139100	91.2	136087
45.98	139104	91.3	135105
46.26	139141	91.4	135009
46.27	139143	91.5	135008

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_F

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	2.2408113	Sum Observations	21101.72
Std Deviation	8.85790177	Variance	78.4624238
Skewness	52.438002	Kurtosis	3649.35366
Uncorrected SS	786087.155	Corrected SS	738802.183
Coeff Variation	395.298871	Std Error Mean	0.09127978

Basic Statistical Measures			
Location		Variability	
Mean	2.240811	Std Deviation	8.85790
Median	1.150000	Variance	78.46242
Mode	0.120000	Range	673.06000
		Interquartile Range	1.61000

Note: The mode displayed is the smallest of 2 modes with a count of 58.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	24.54883	Pr > t 	<.0001
Sign	M	4542	Pr >= M 	<.0001
Signed Rank	S	22039982	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	672.50
99%	21.03
95%	7.03
90%	4.23
75% Q3	2.15
50% Median	1.15
25% Q1	0.54
10%	0.21
5%	0.09

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_NTU

The UNIVARIATE Procedure
Variable: result

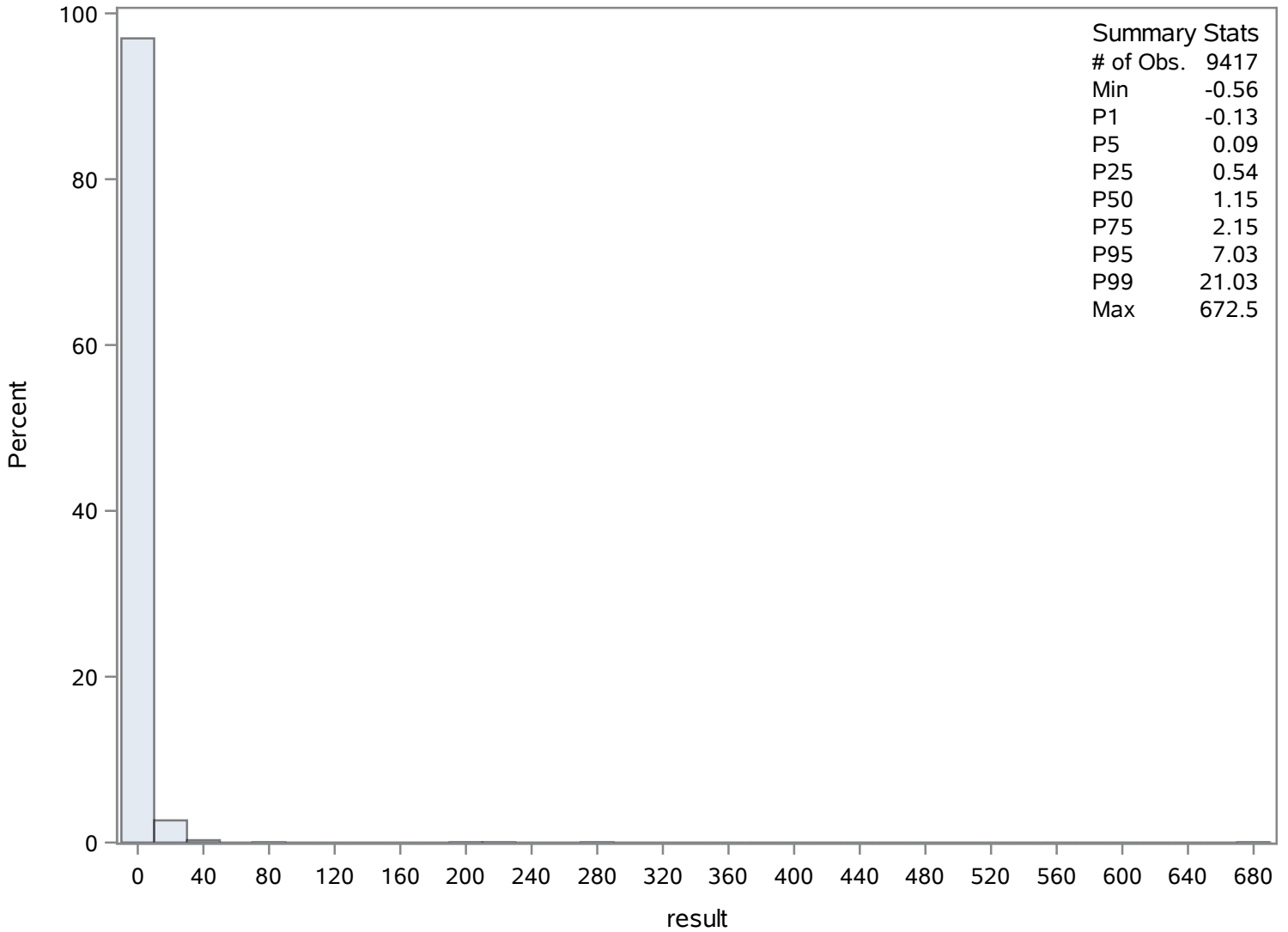
Quantiles (Definition 5)	
Level	Quantile
1%	-0.13
0% Min	-0.56

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.56	150357	79.68	148601
-0.52	150344	204.10	148602
-0.46	150352	211.20	143058
-0.43	150358	281.60	148089
-0.42	150356	672.50	148402

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

TURB_RAW

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	0.08260593	Sum Observations	777.9
Std Deviation	0.21565549	Variance	0.04650729
Skewness	52.1351826	Kurtosis	3621.44299
Uncorrected SS	502.1718	Corrected SS	437.912651
Coeff Variation	261.065402	Std Error Mean	0.00222231

Basic Statistical Measures			
Location		Variability	
Mean	0.082606	Std Deviation	0.21566
Median	0.060000	Variance	0.04651
Mode	0.050000	Range	16.36000
		Interquartile Range	0.04000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	37.17123	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16.37
99%	0.54
95%	0.21
90%	0.13
75% Q3	0.08
50% Median	0.06
25% Q1	0.04
10%	0.03
5%	0.03
1%	0.02
0% Min	0.01

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_RAW

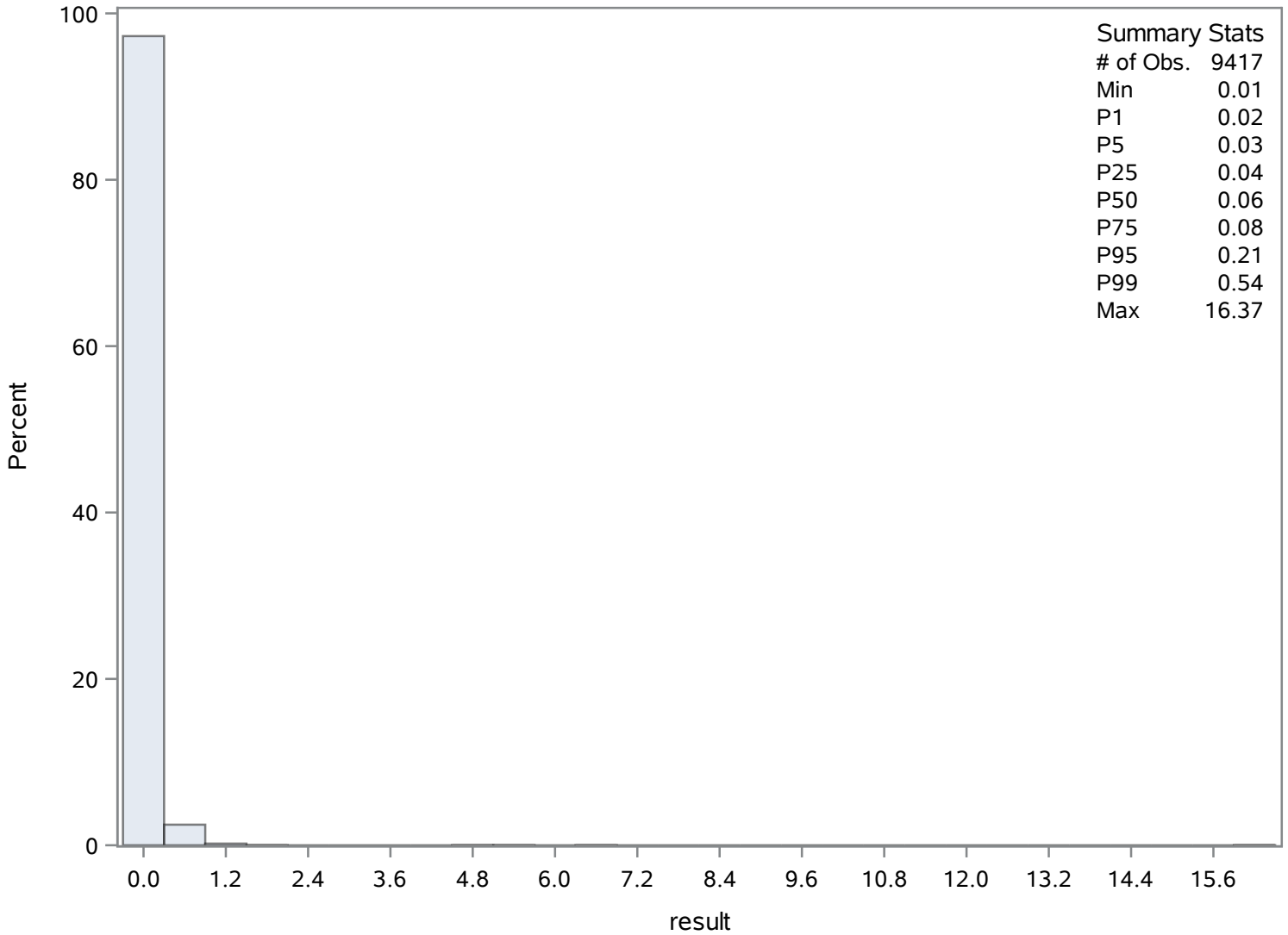
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	159696	2.04	158488
0.01	159565	4.97	152897
0.01	159563	5.16	158489
0.01	159534	6.87	157932
0.02	159821	16.37	158245

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_RAW

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near Mouth

WIPER_POS_V

The UNIVARIATE Procedure
Variable: result

Moments			
N	9417	Sum Weights	9417
Mean	1.21655623	Sum Observations	11456.31
Std Deviation	0.01589652	Variance	0.0002527
Skewness	5.87295002	Kurtosis	114.223747
Uncorrected SS	13939.6247	Corrected SS	2.37941848
Coeff Variation	1.30668229	Std Error Mean	0.00016381

Basic Statistical Measures			
Location		Variability	
Mean	1.216556	Std Deviation	0.01590
Median	1.210000	Variance	0.0002527
Mode	1.210000	Range	0.43000
		Interquartile Range	0.02000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	7426.536	Pr > t 	<.0001
Sign	M	4708.5	Pr >= M 	<.0001
Signed Rank	S	22172327	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.61
99%	1.24
95%	1.24
90%	1.24
75% Q3	1.23
50% Median	1.21
25% Q1	1.21
10%	1.20
5%	1.20
1%	1.20
0% Min	1.18

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
WIPER_POS_V

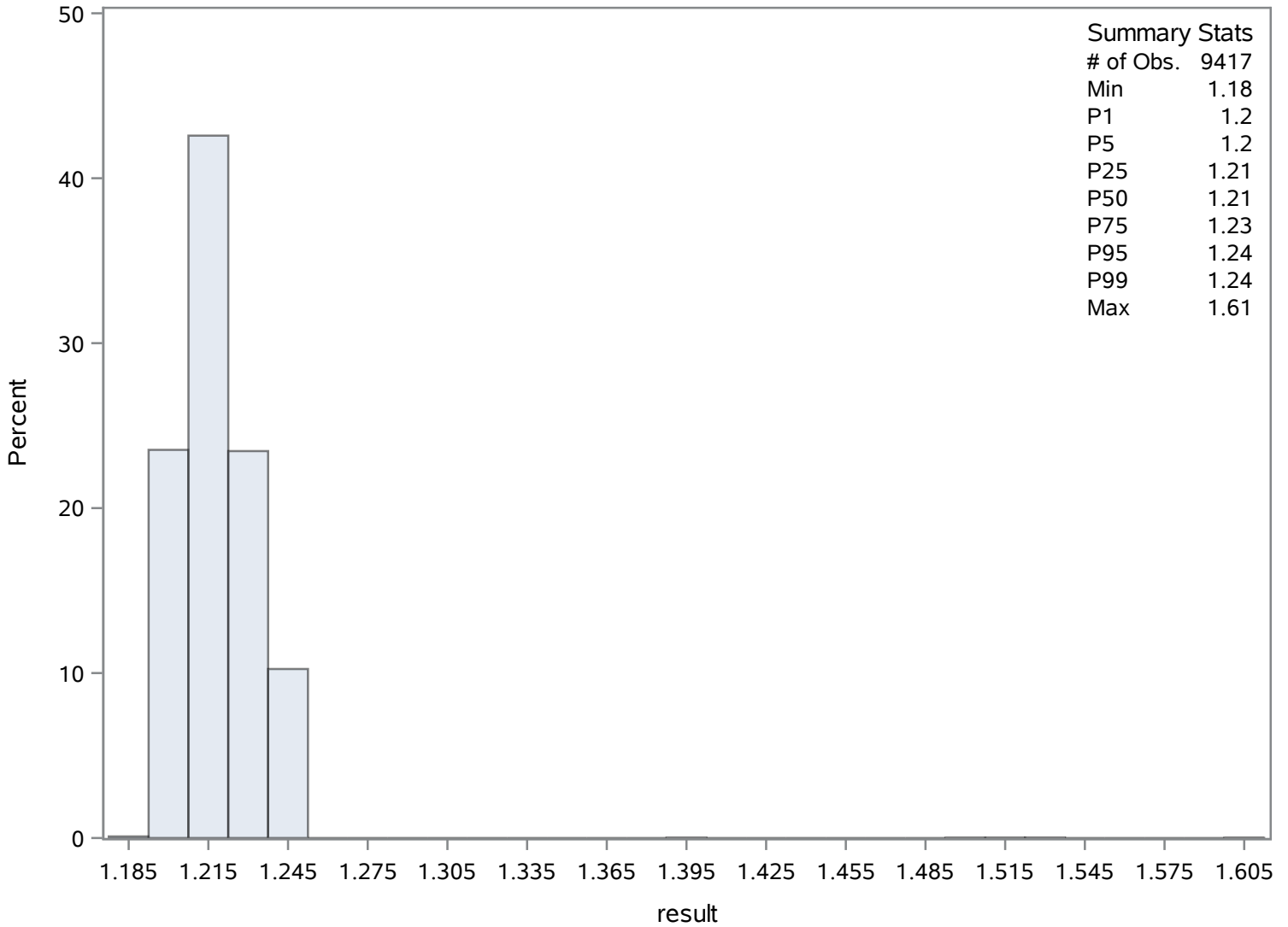
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.18	169171	1.52	163092
1.18	167946	1.53	163447
1.18	167892	1.53	163448
1.18	167744	1.53	163449
1.19	169311	1.61	163442

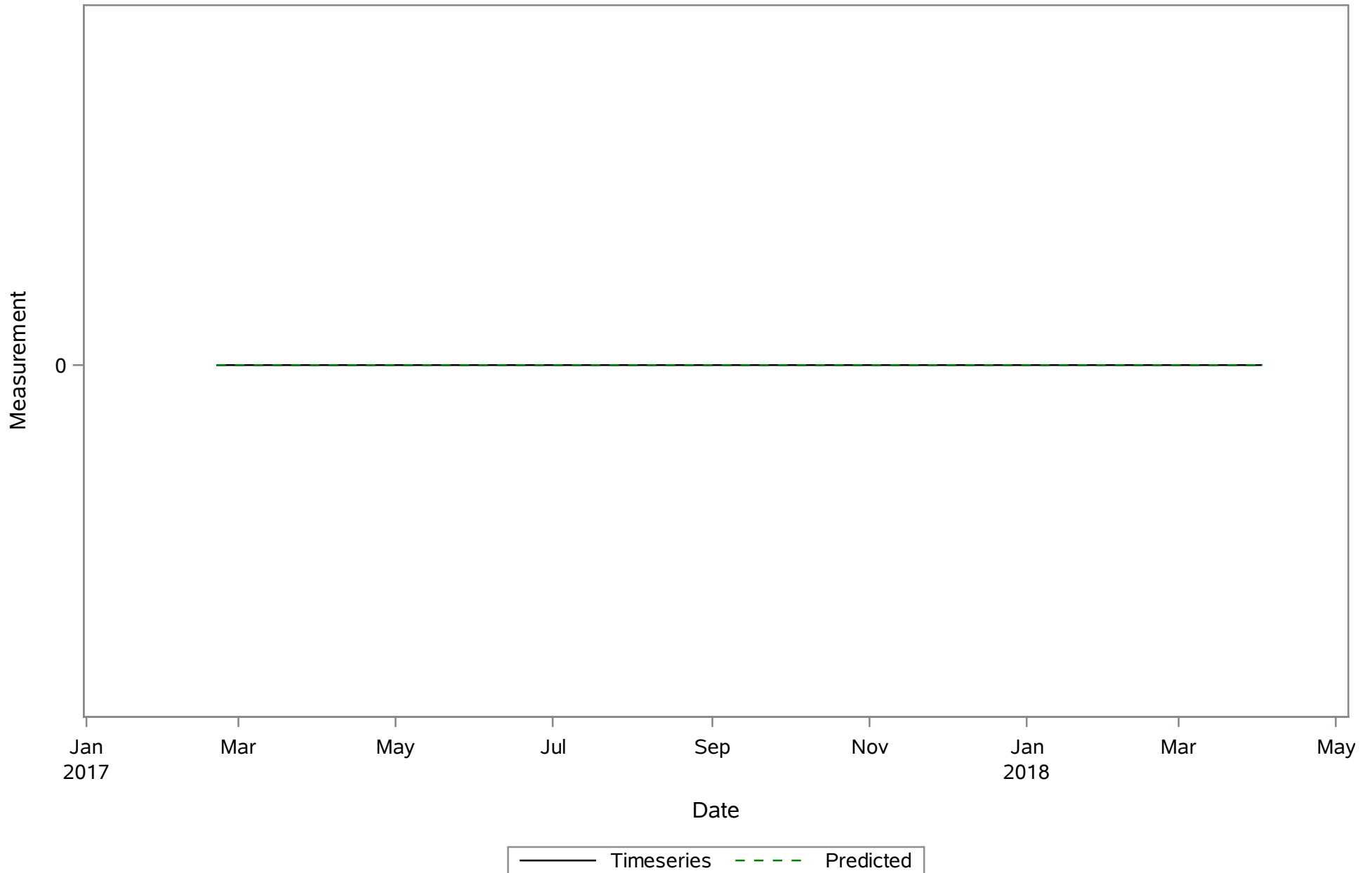
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
WIPER_POS_V

The UNIVARIATE Procedure

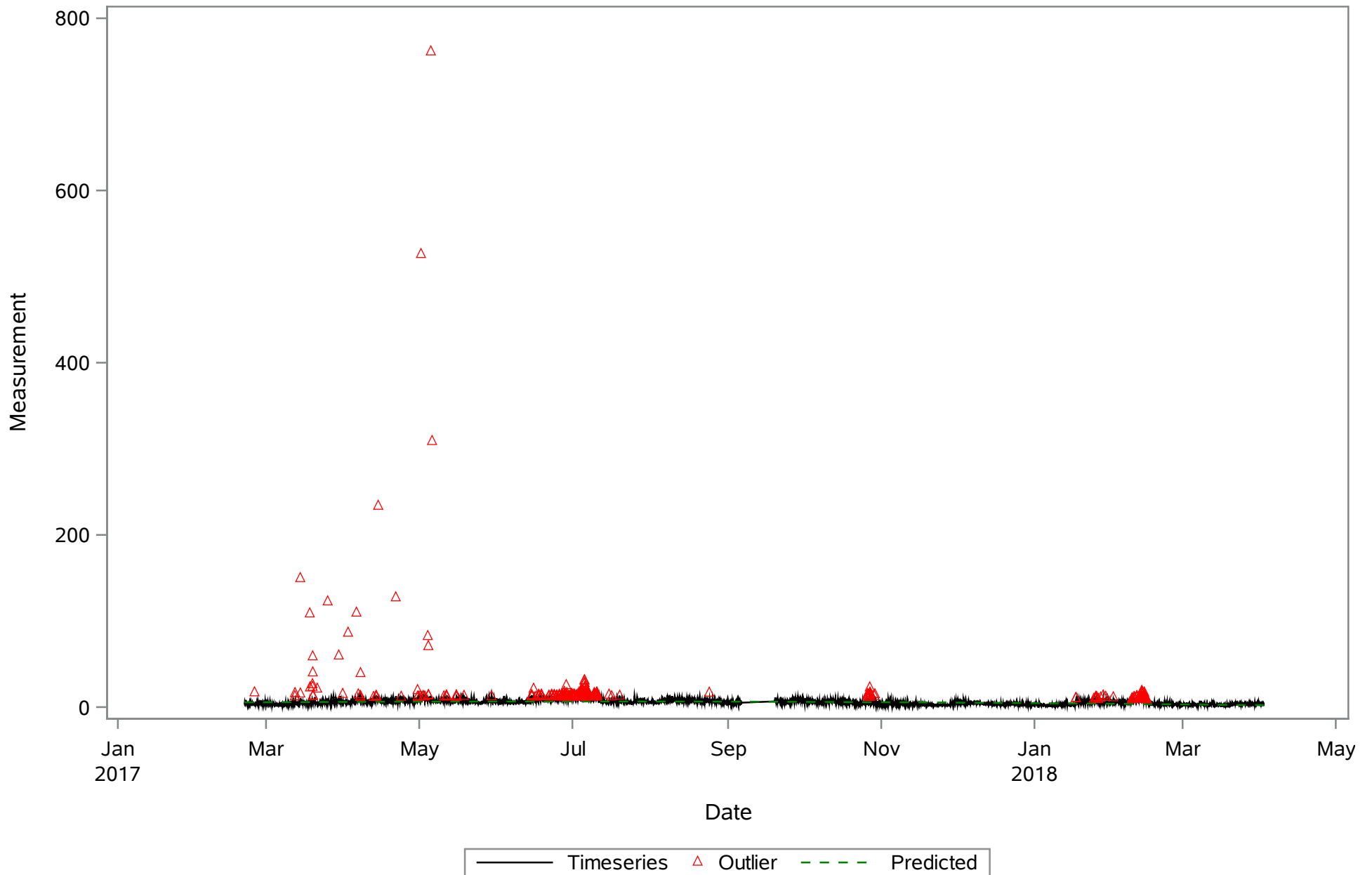
Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
BATTV_EXO

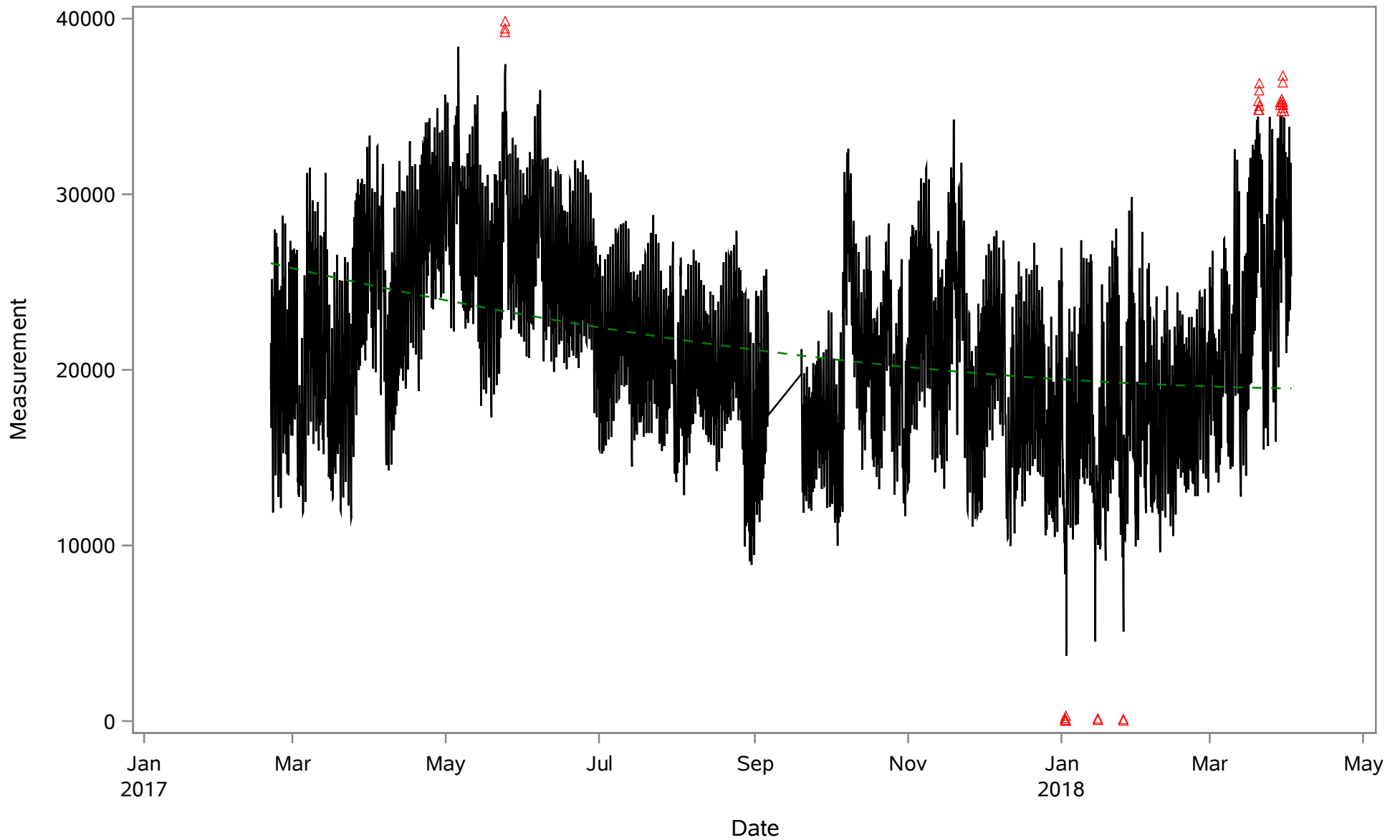


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
CHLA_UGL



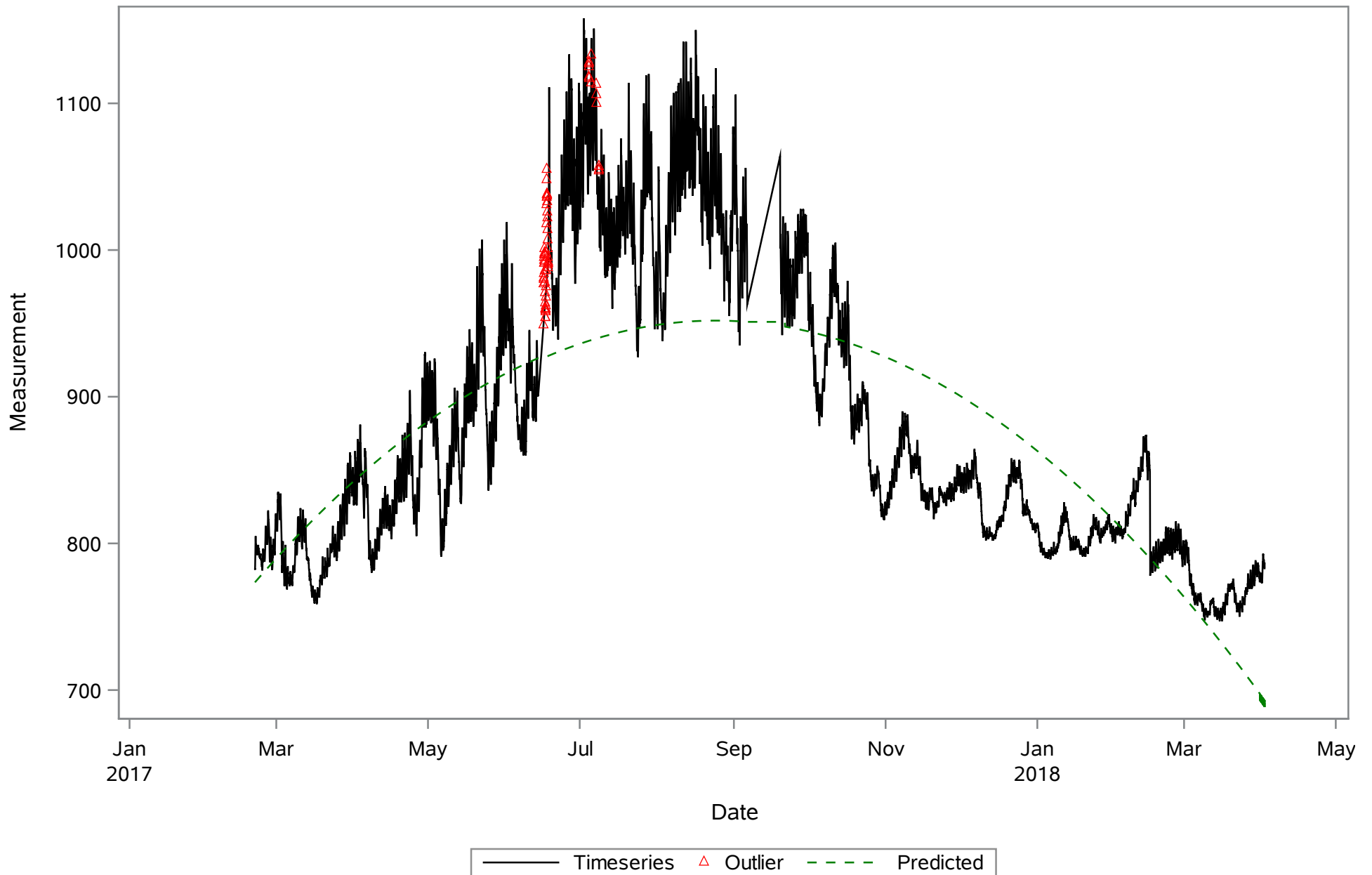
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near Mouth
COND

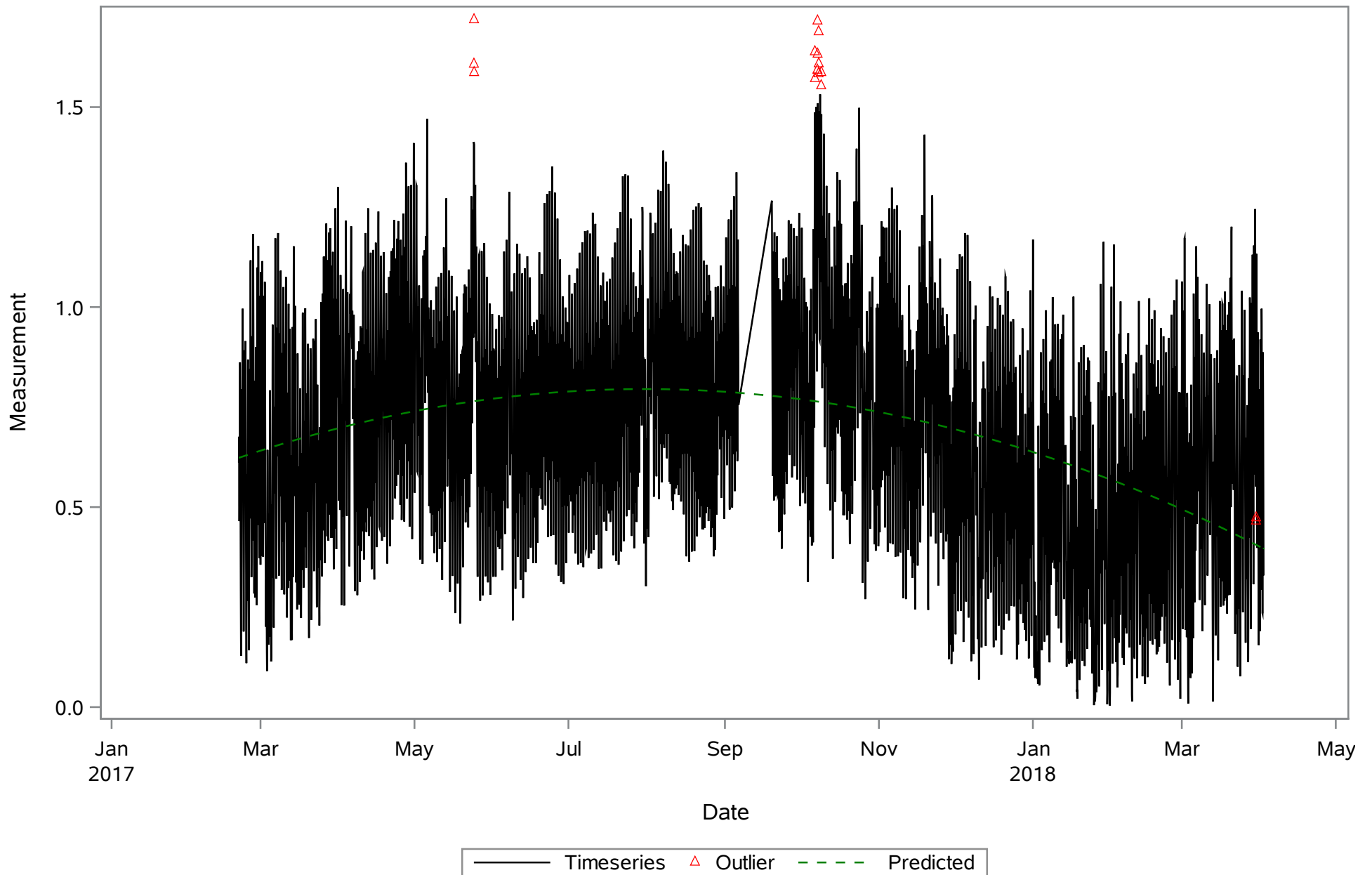


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DARK_SPECTRUM_AVG

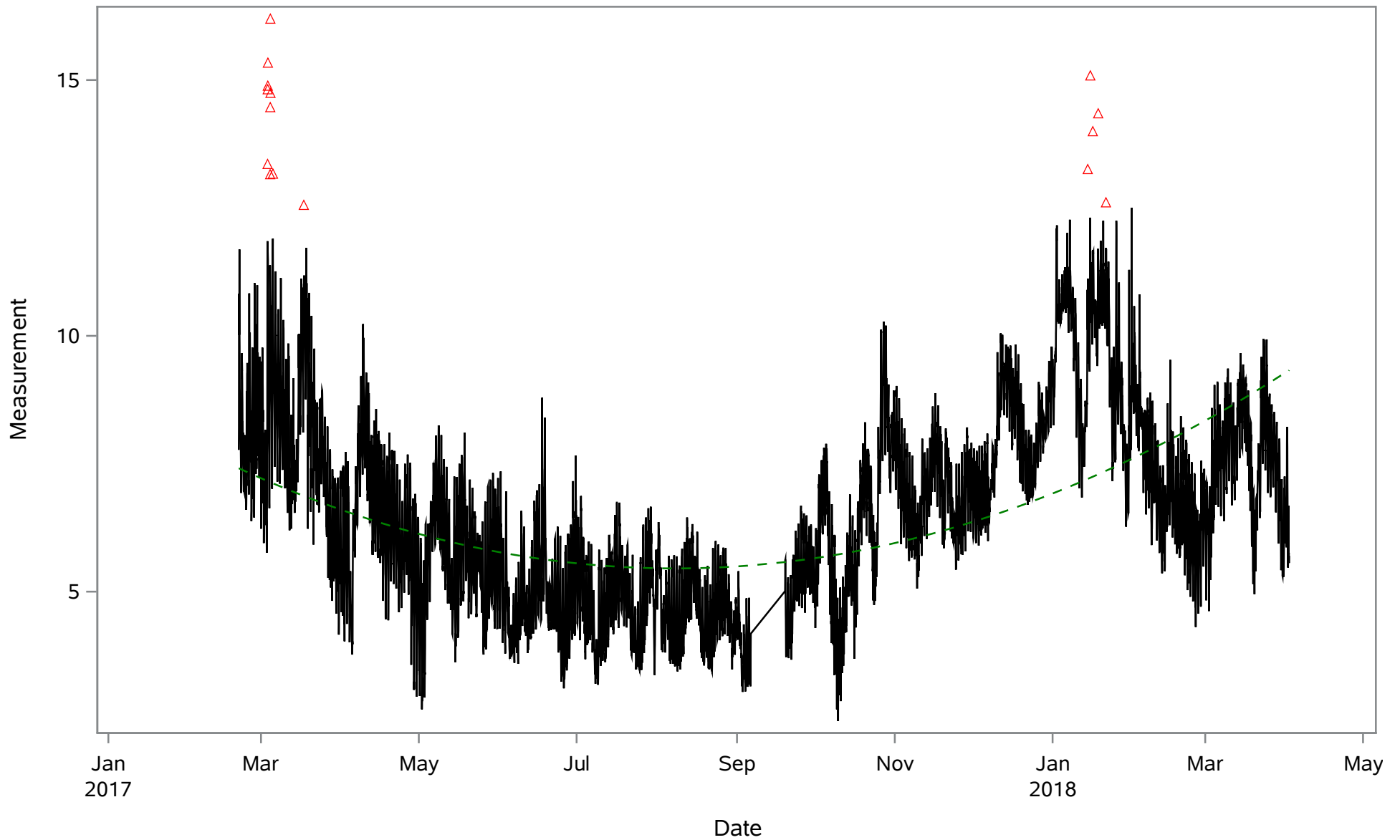


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DEPTH_M



Chassahowitzka River - Continuous Recorder

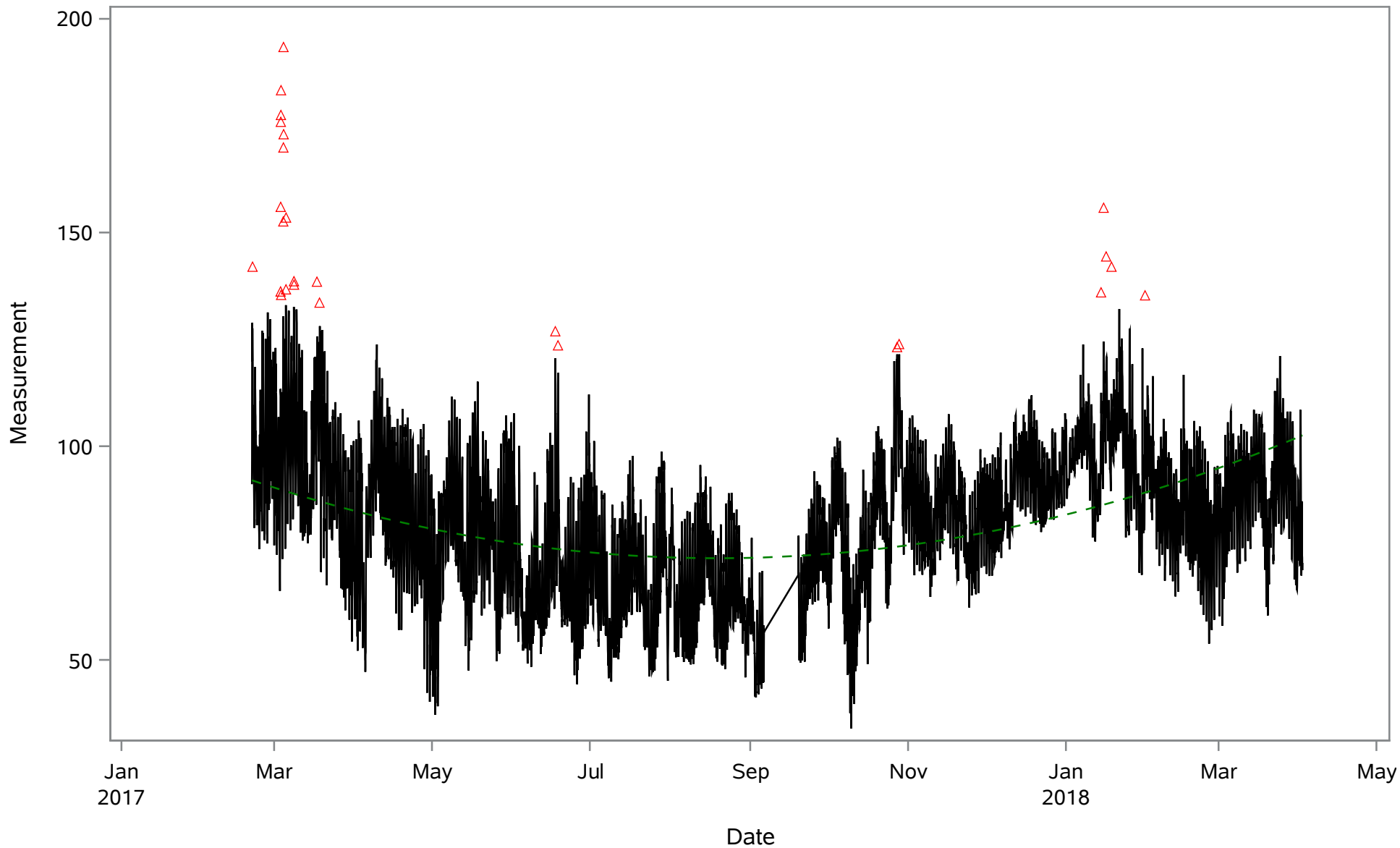
Source: Continuous Recorder
Chass Near Mouth
DO_MGL



— Timeseries △ Outlier - - - Predicted

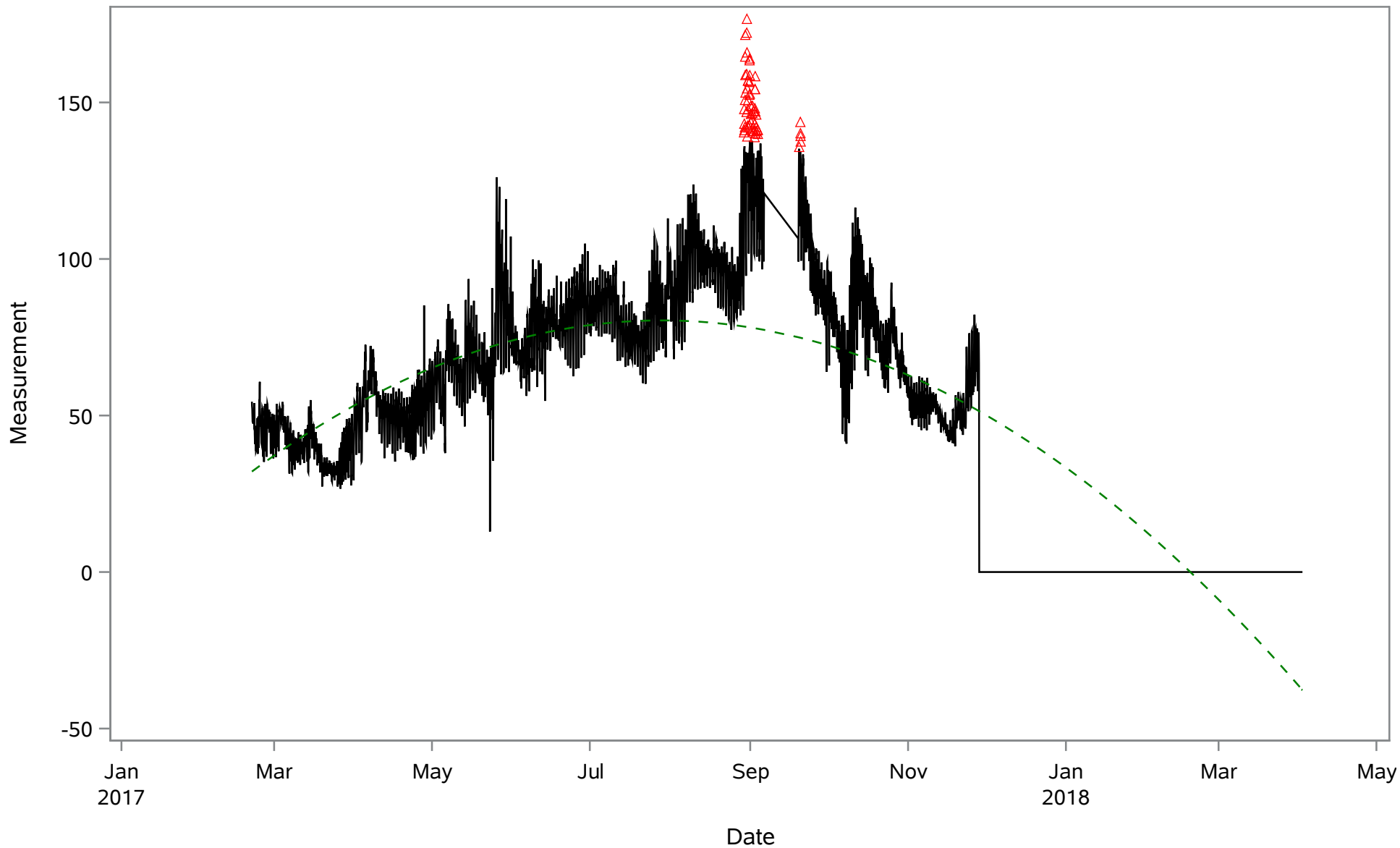
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near Mouth
DO_PCT



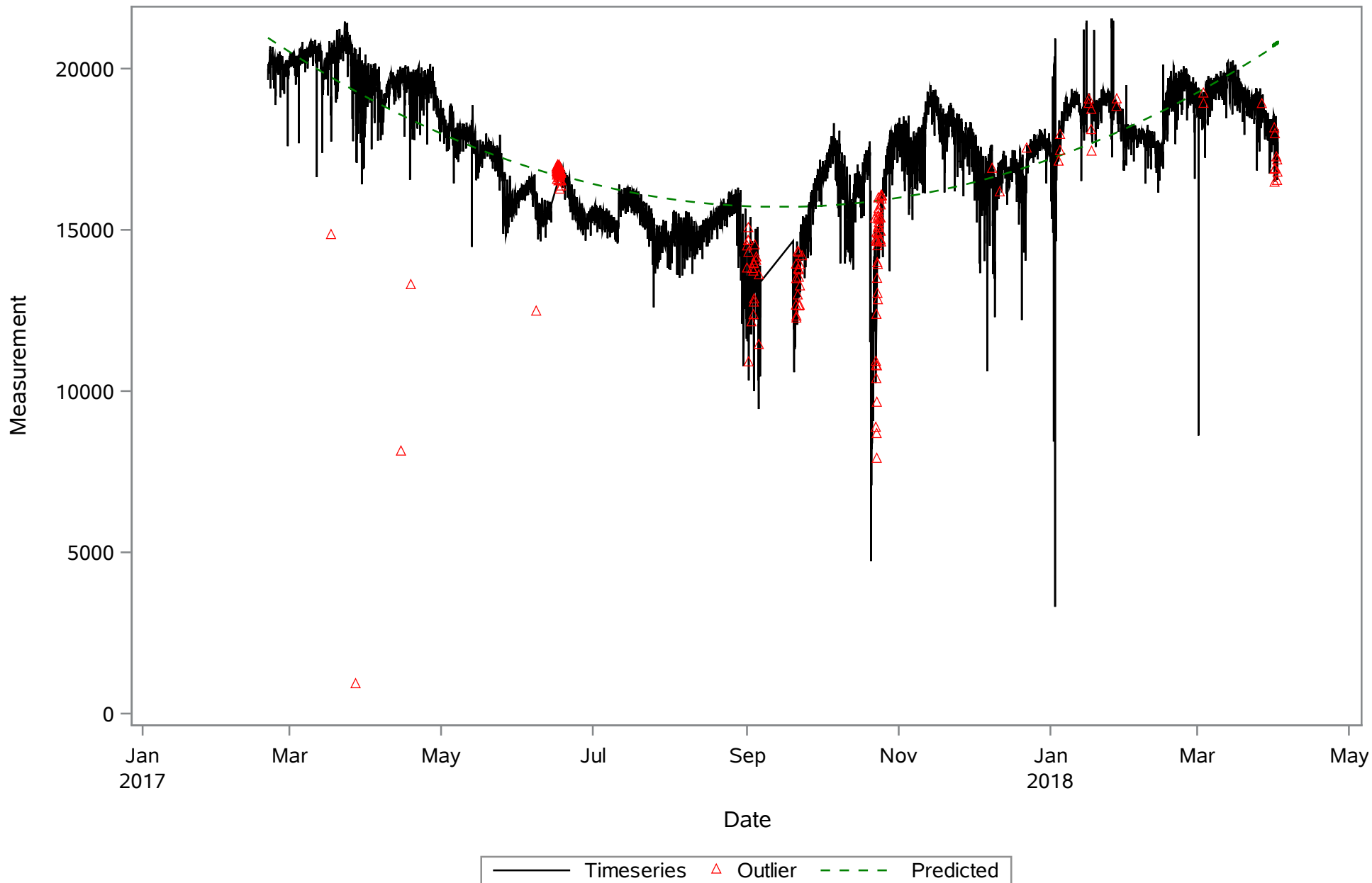
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
FDOM_QSU

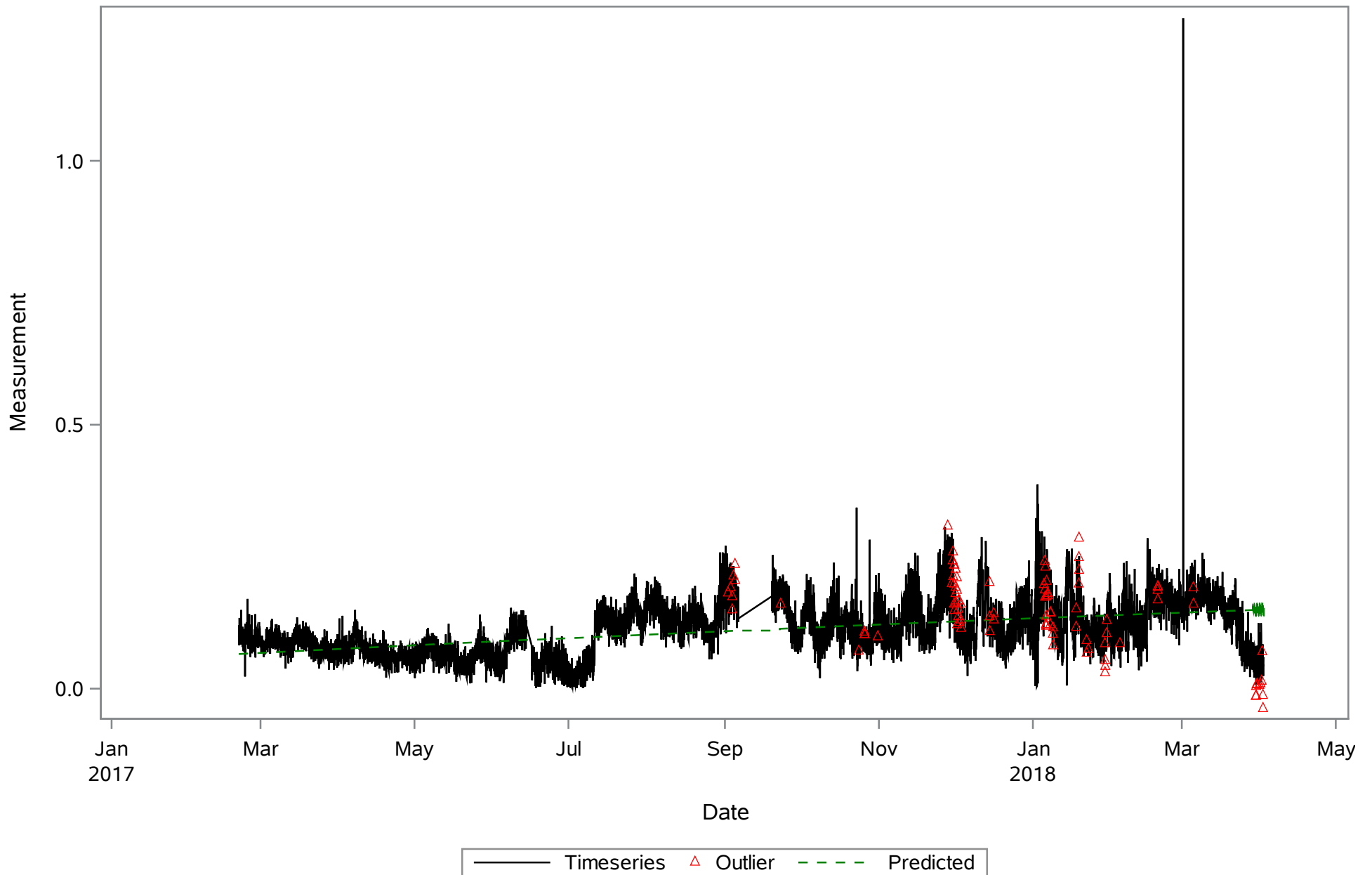


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
LIGHT_SPECTRUM_AVG

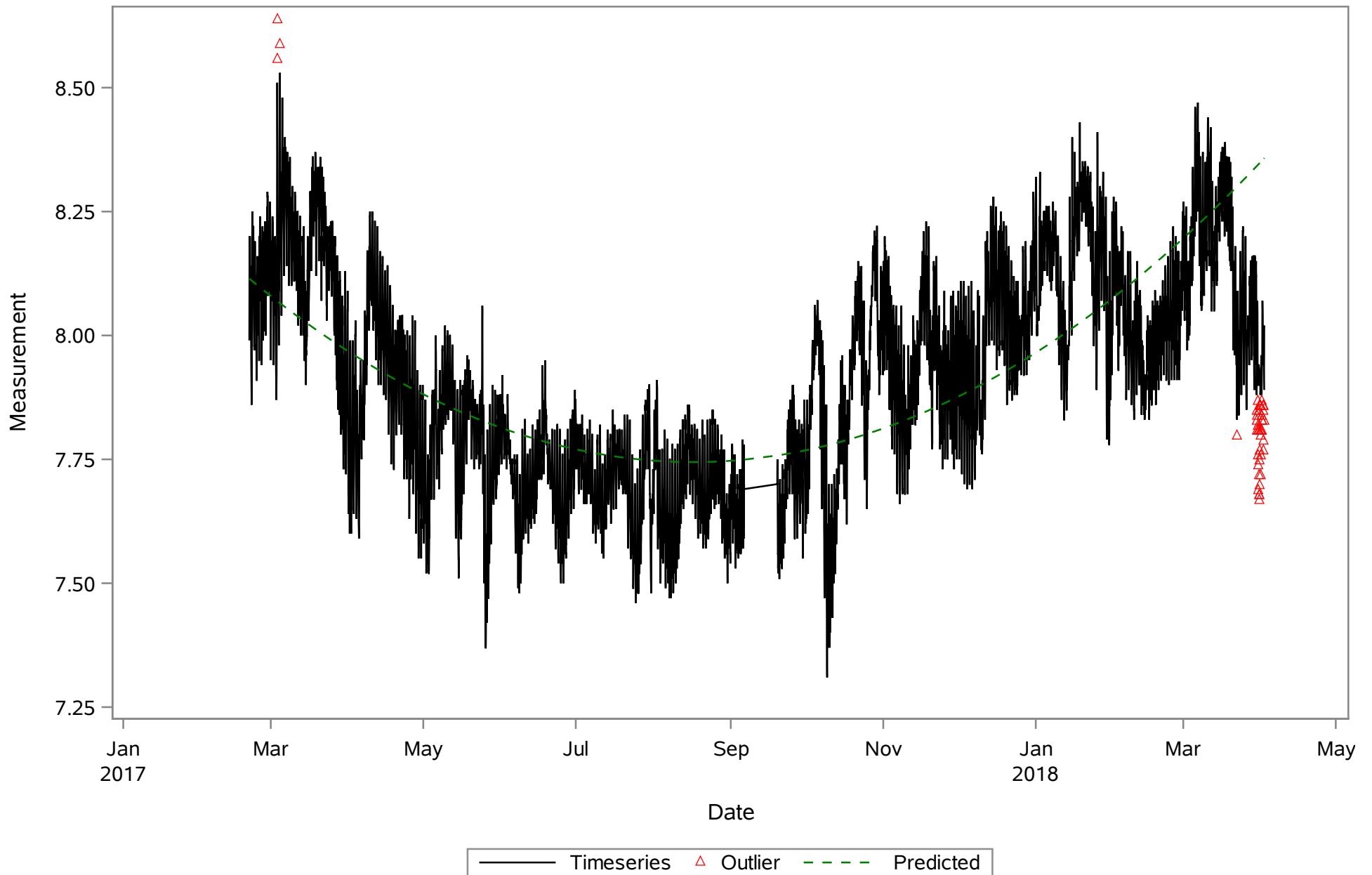


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
NITRATE_MGL



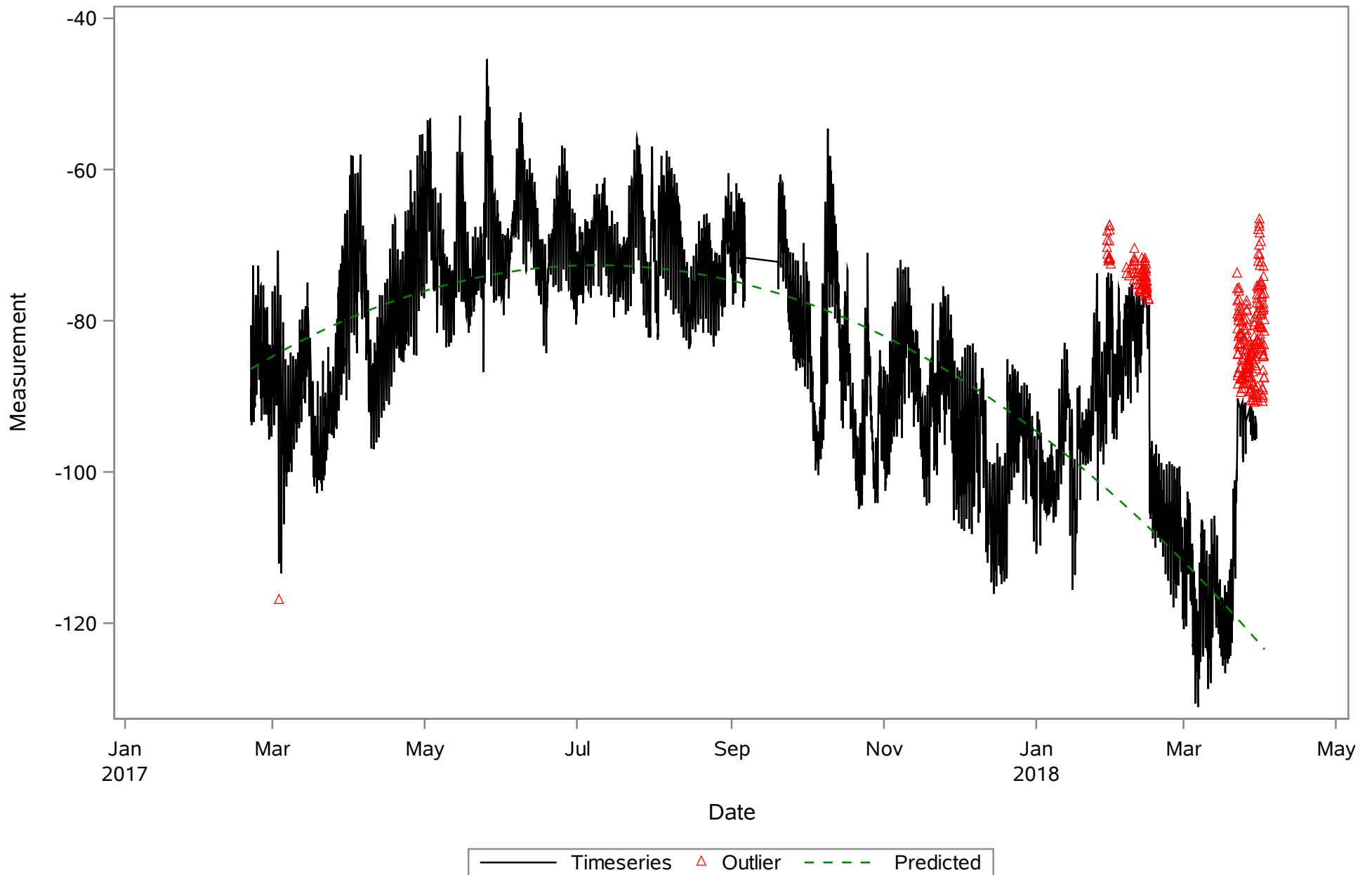
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near Mouth
PH

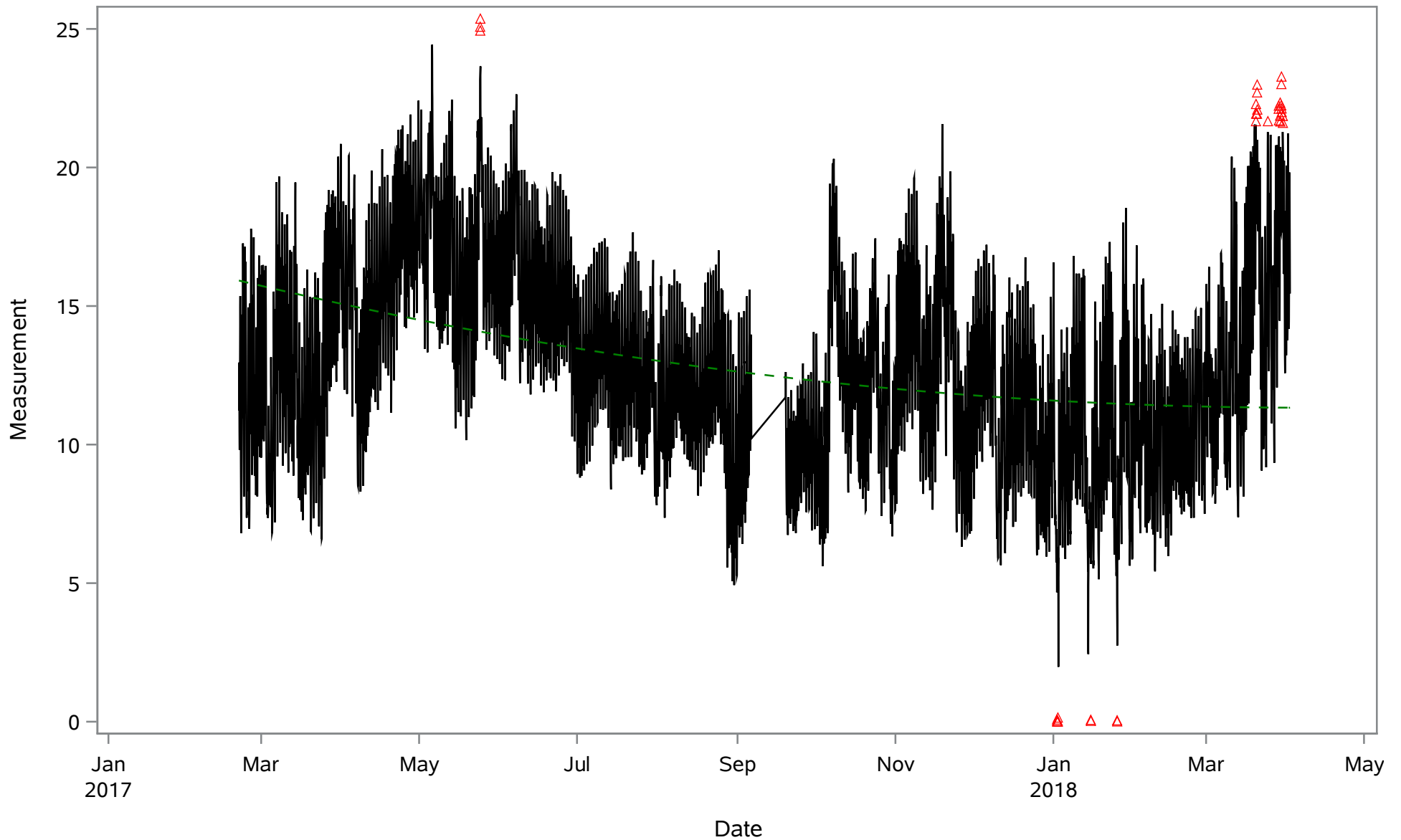


Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near Mouth
PH_mV

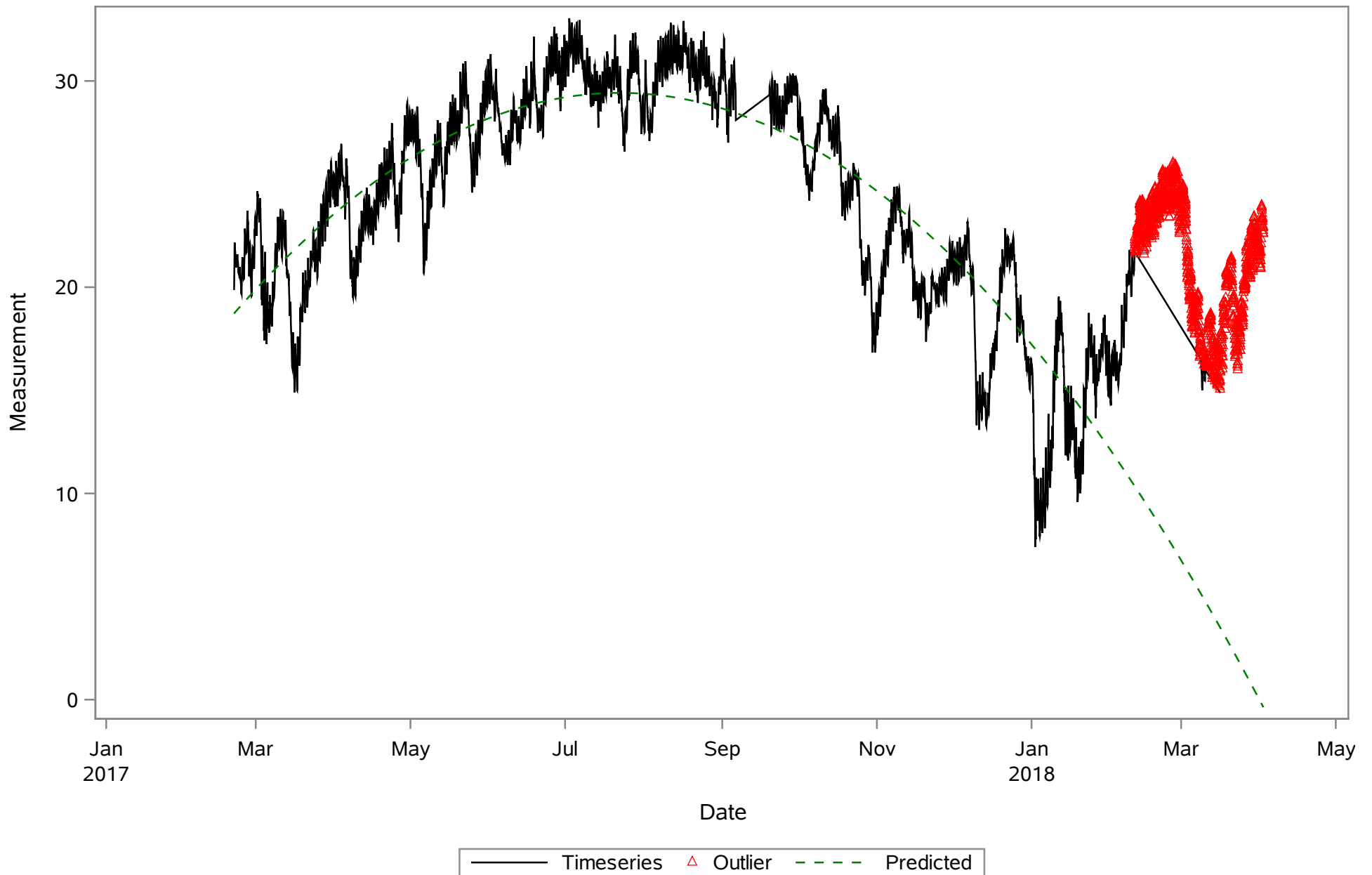


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
SAL_PPT

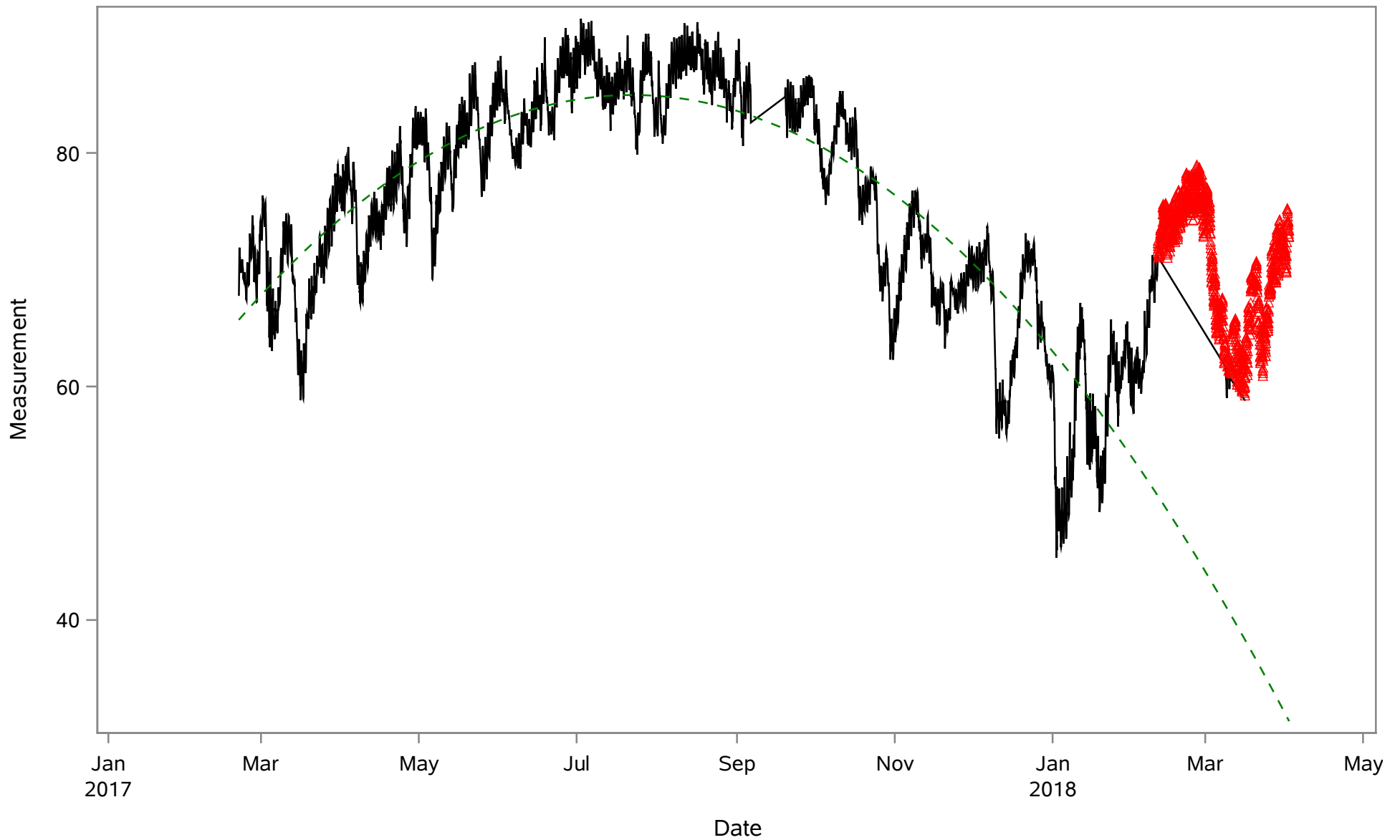


— Timeseries ▲ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_C

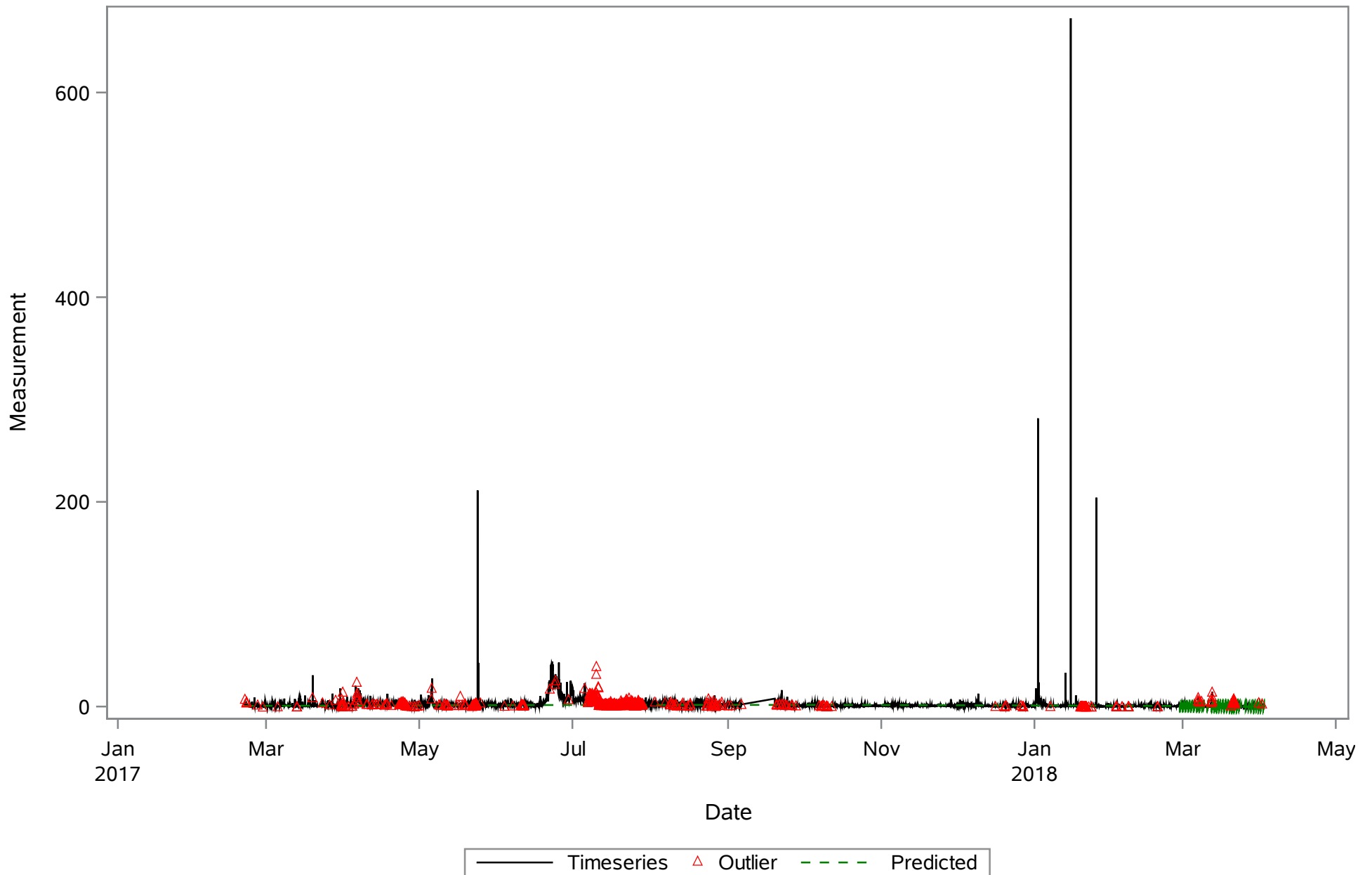


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_F



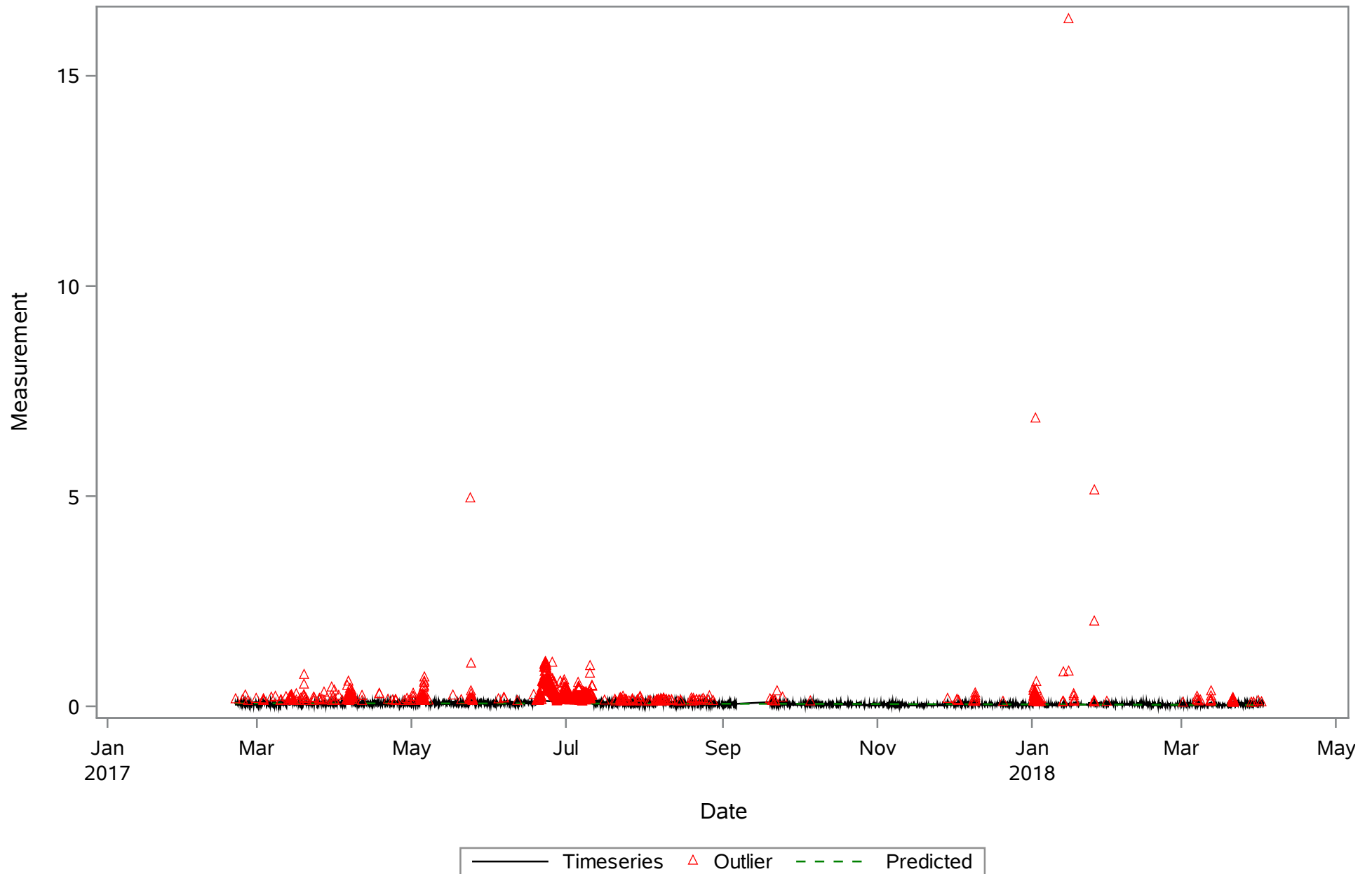
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_NTU

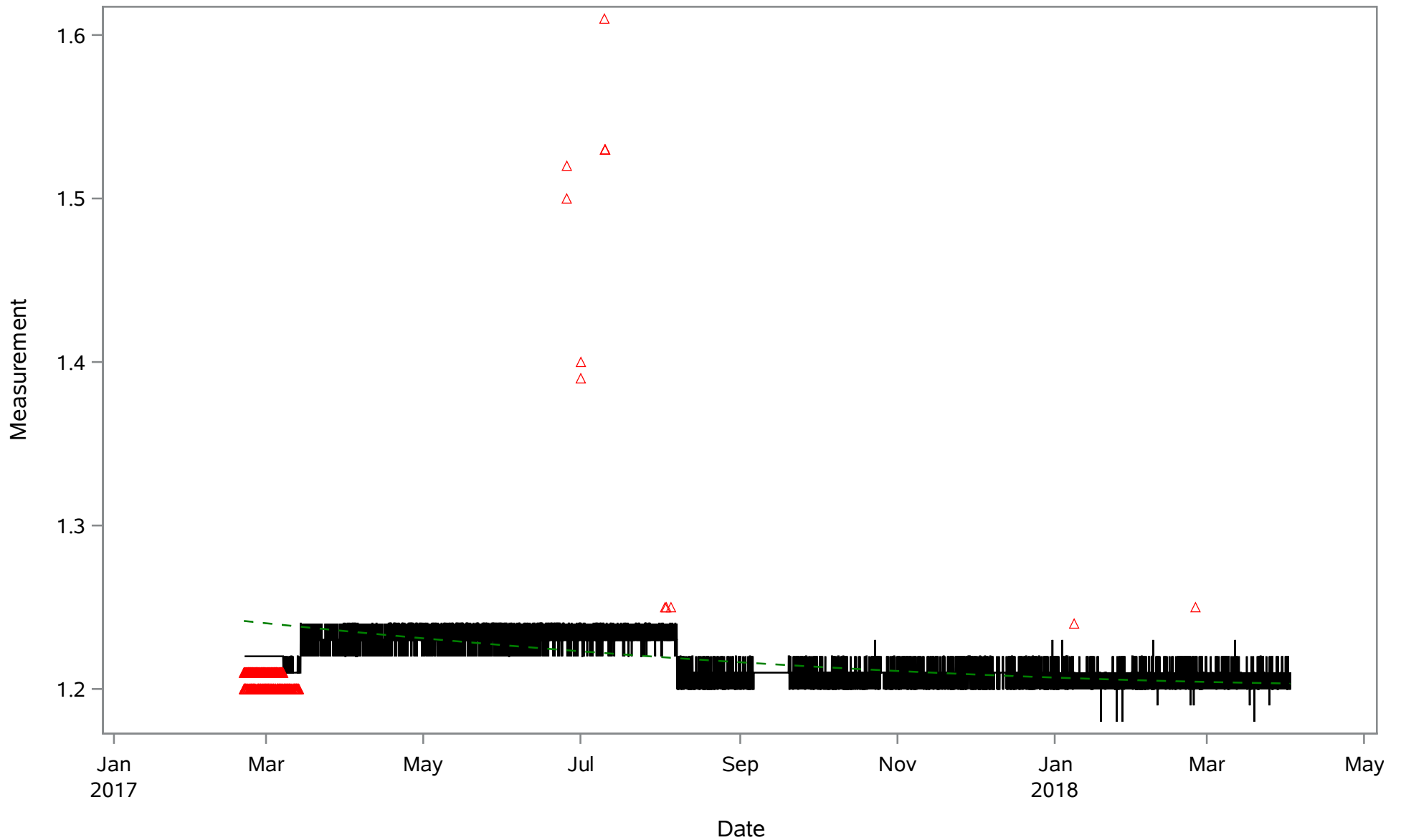


Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near Mouth
TURB_RAW

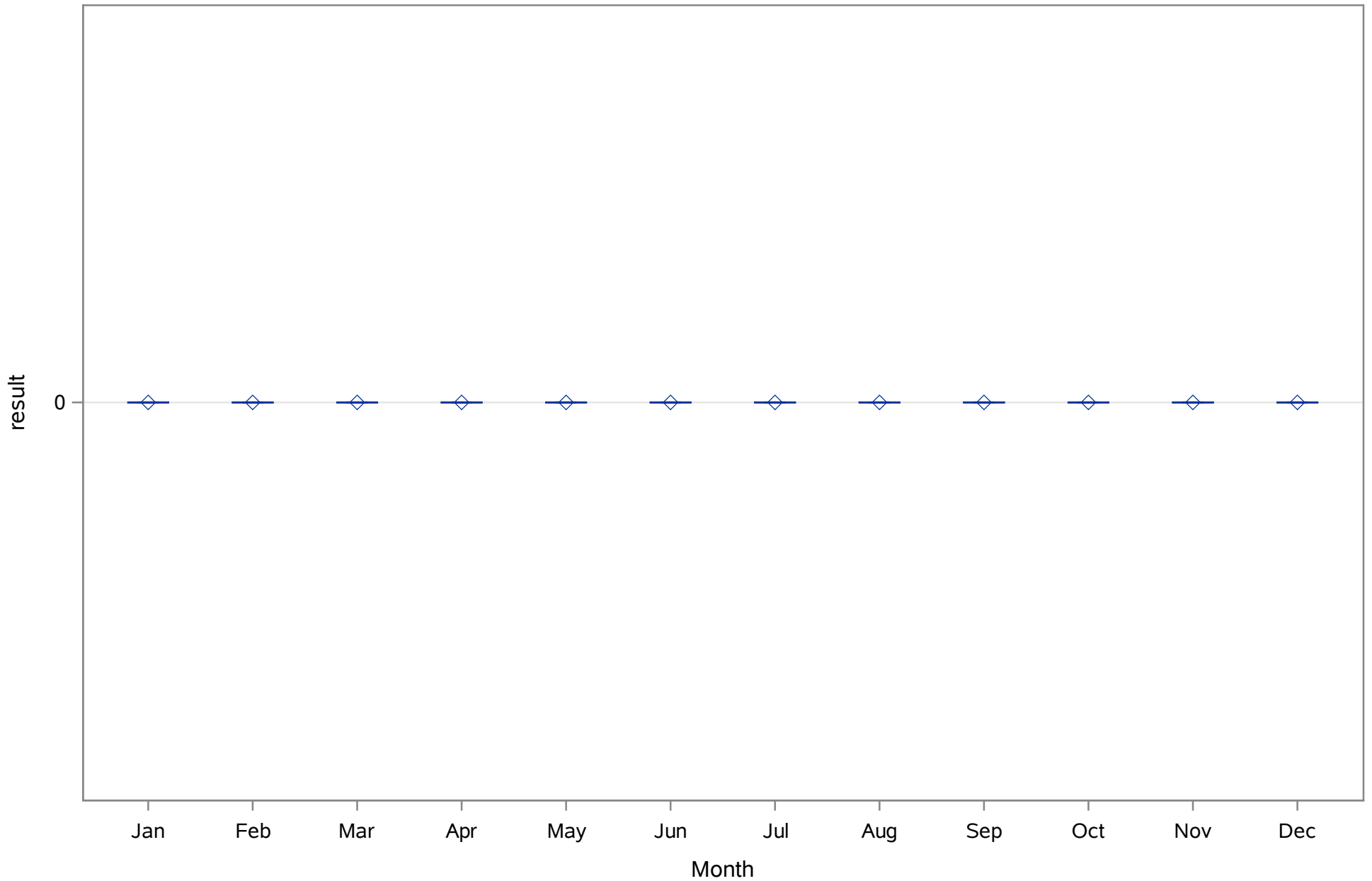


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
WIPER_POS_V

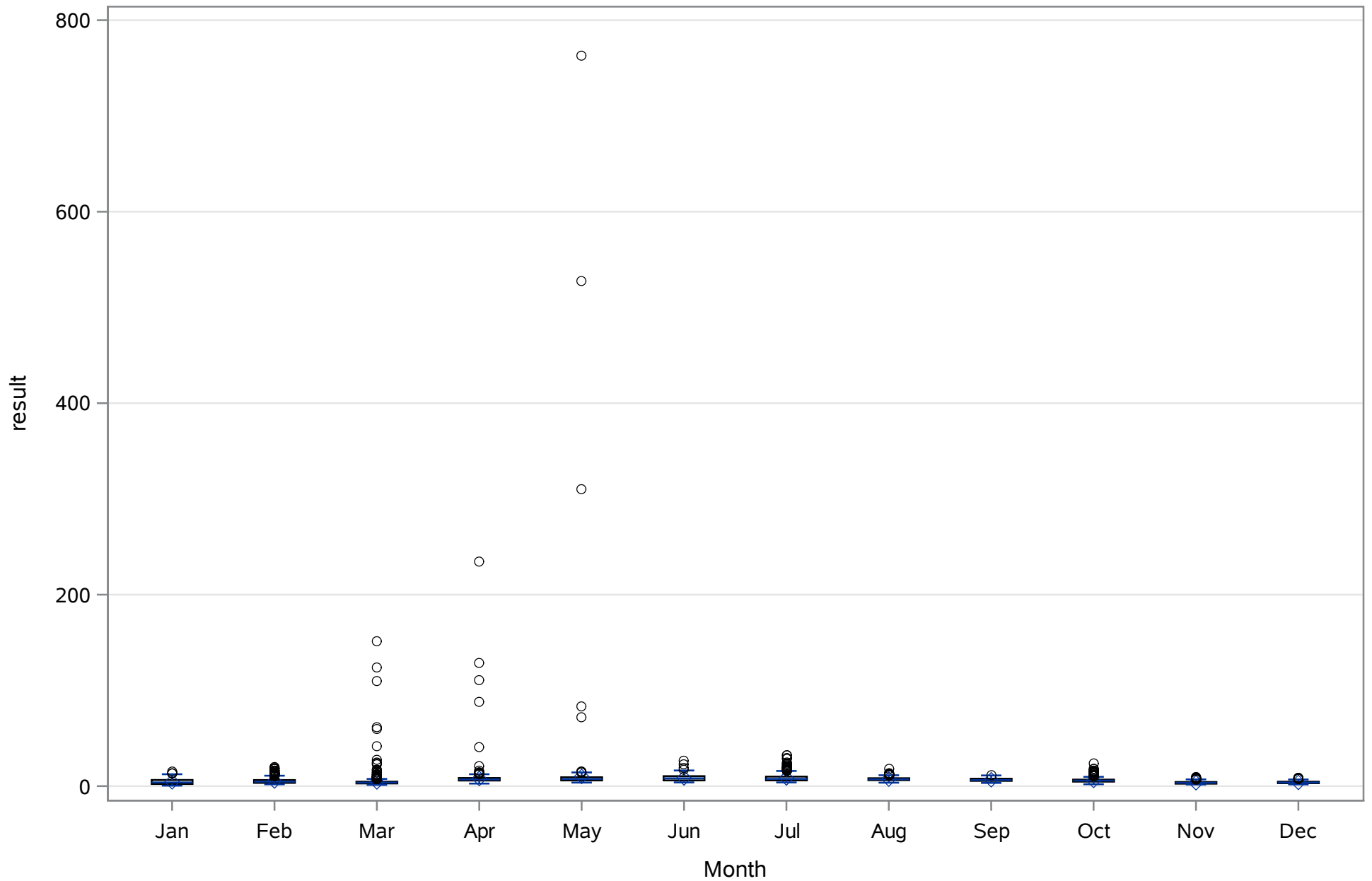


— Timeseries △ Outlier - - - Predicted

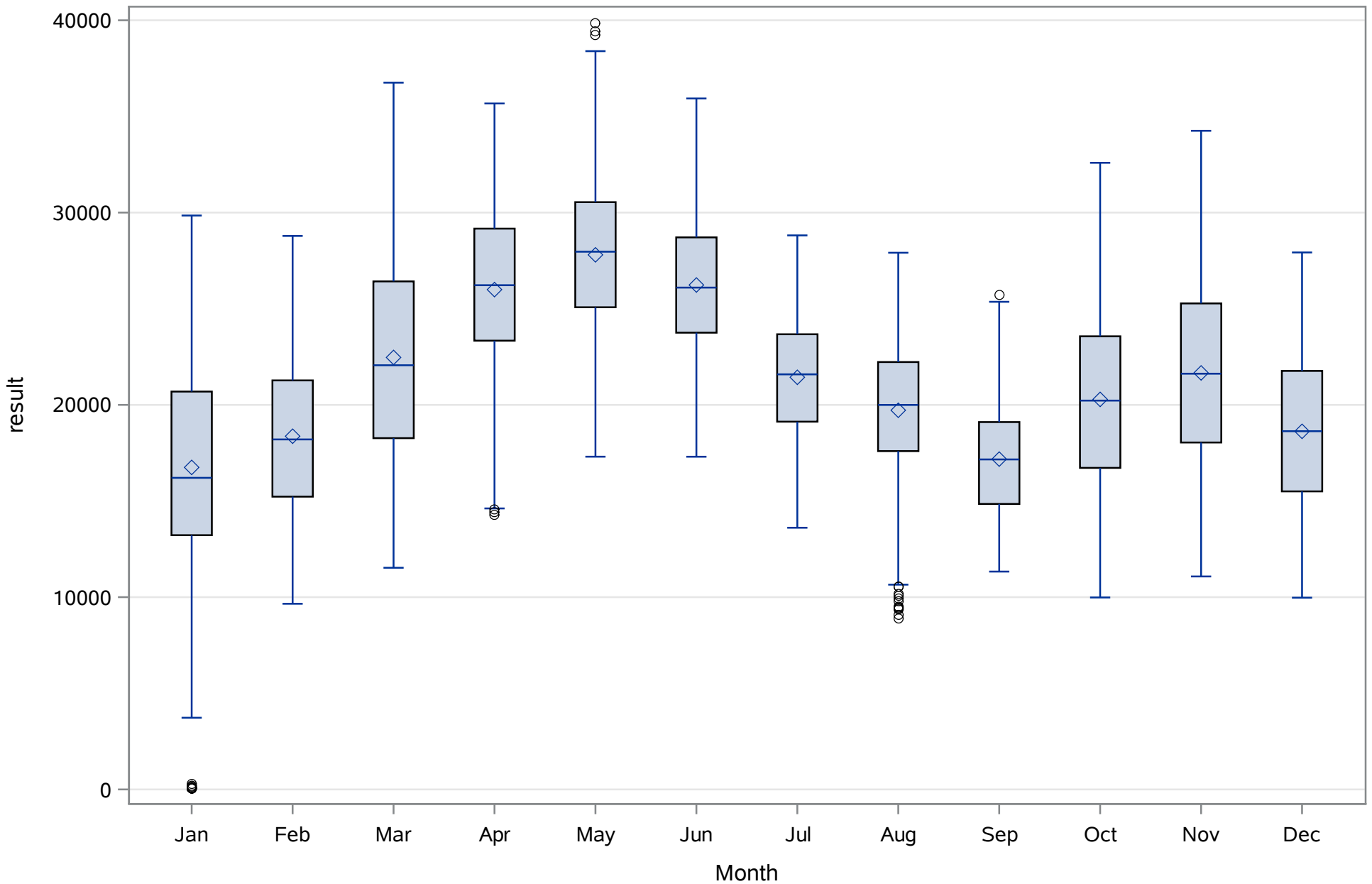
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
BATTV_EXO



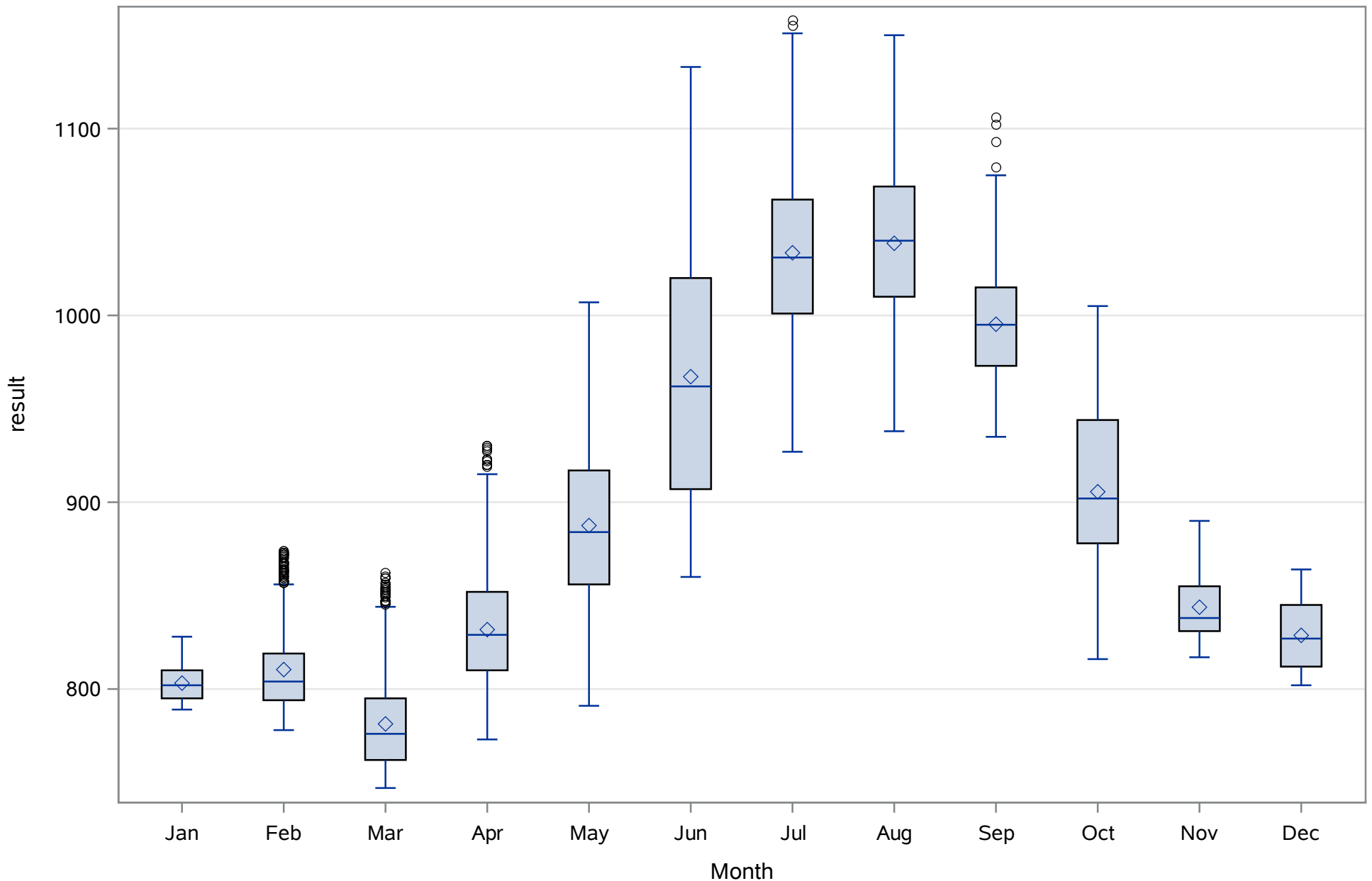
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
CHLA_UGL



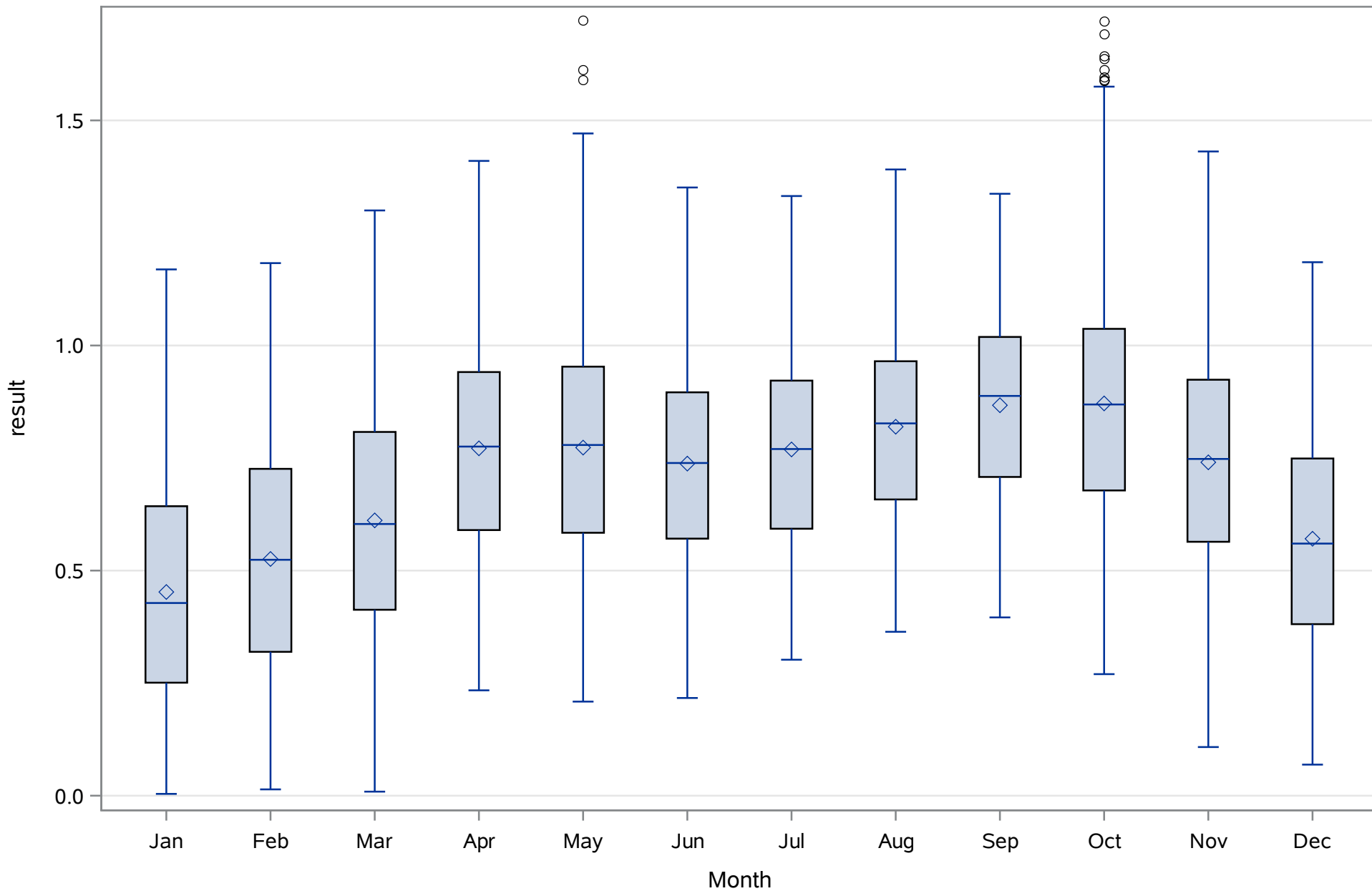
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
COND



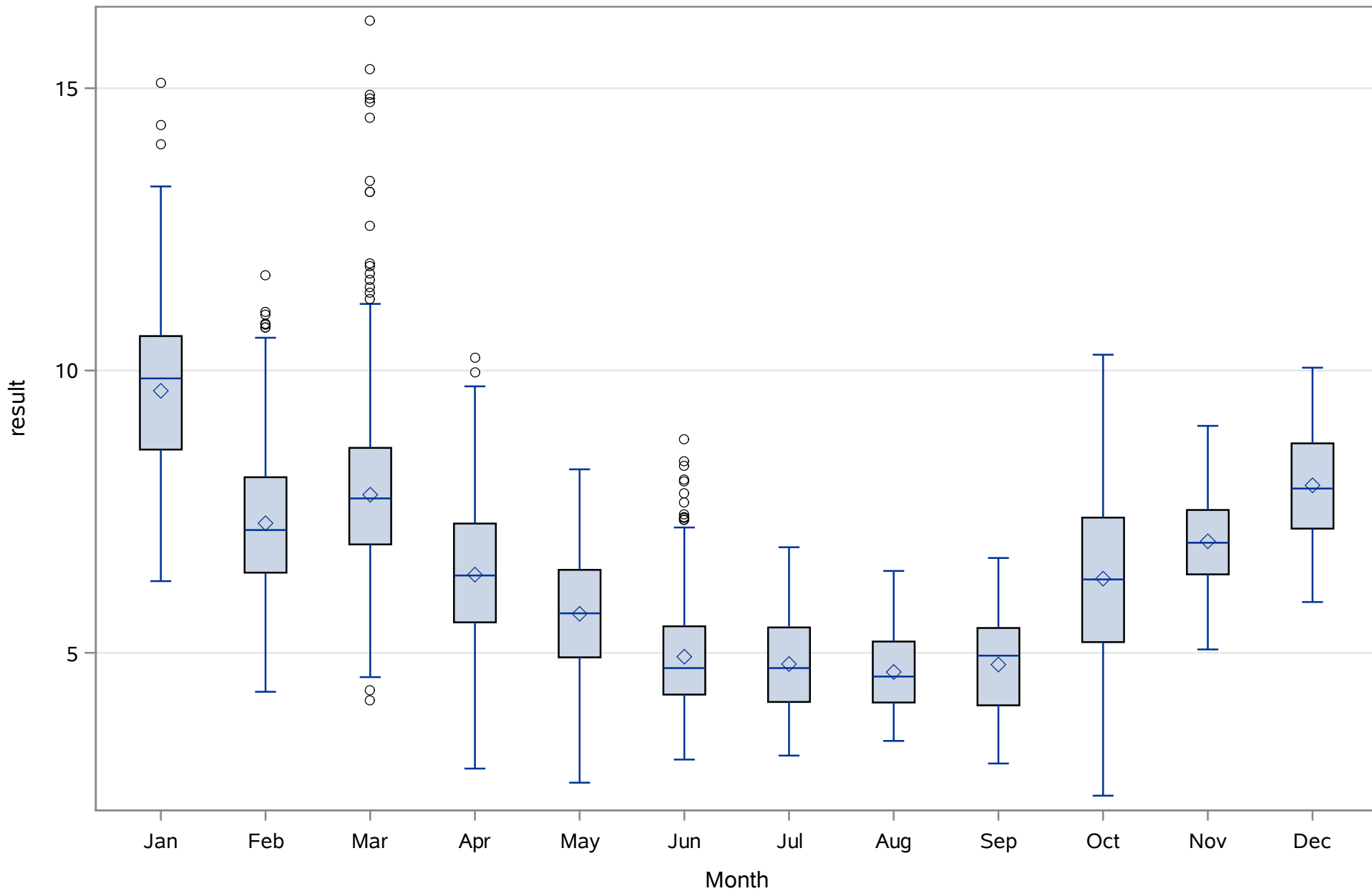
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
DARK_SPECTRUM_AVG



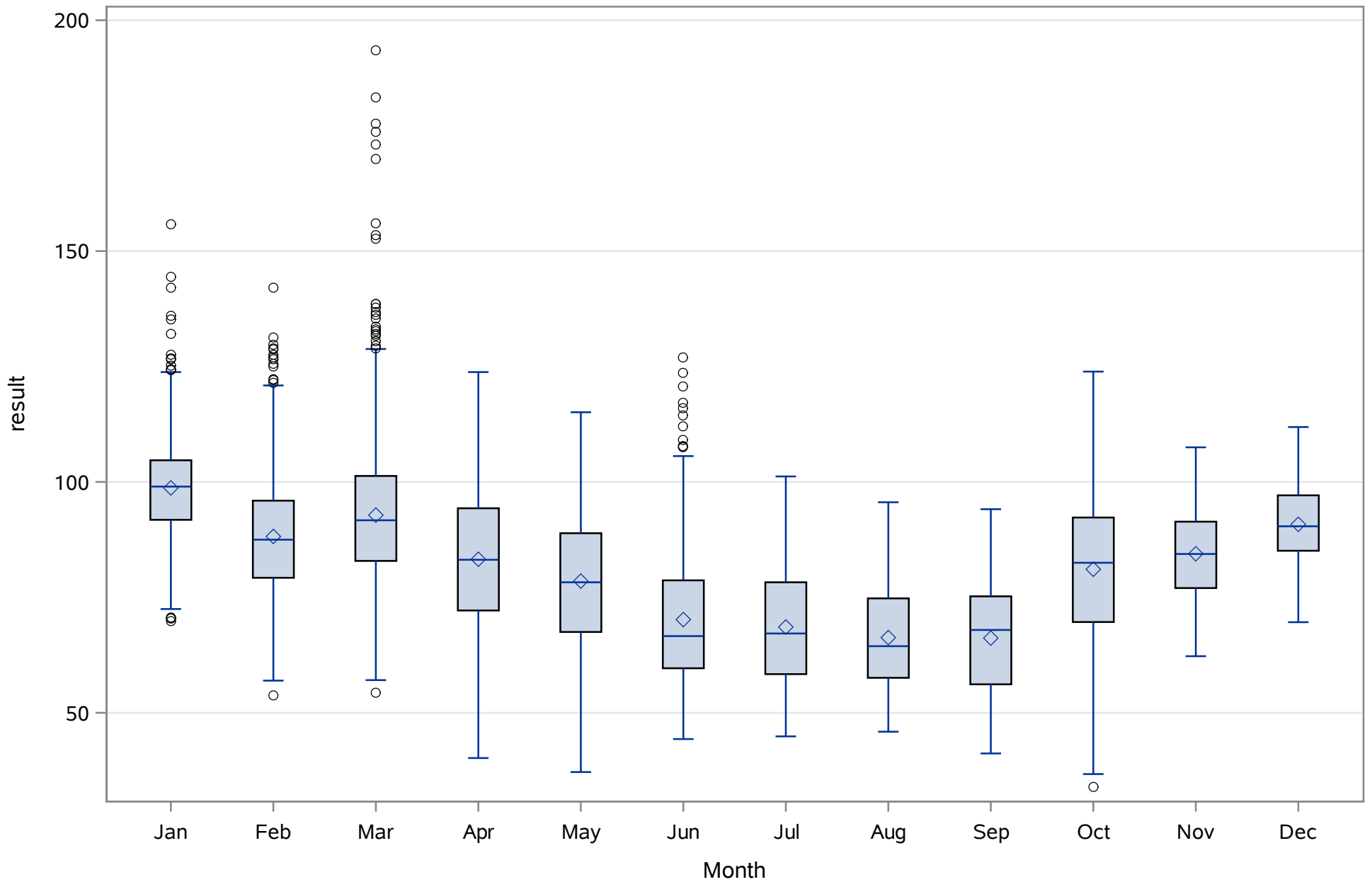
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Class Near Mouth
DEPTH_M



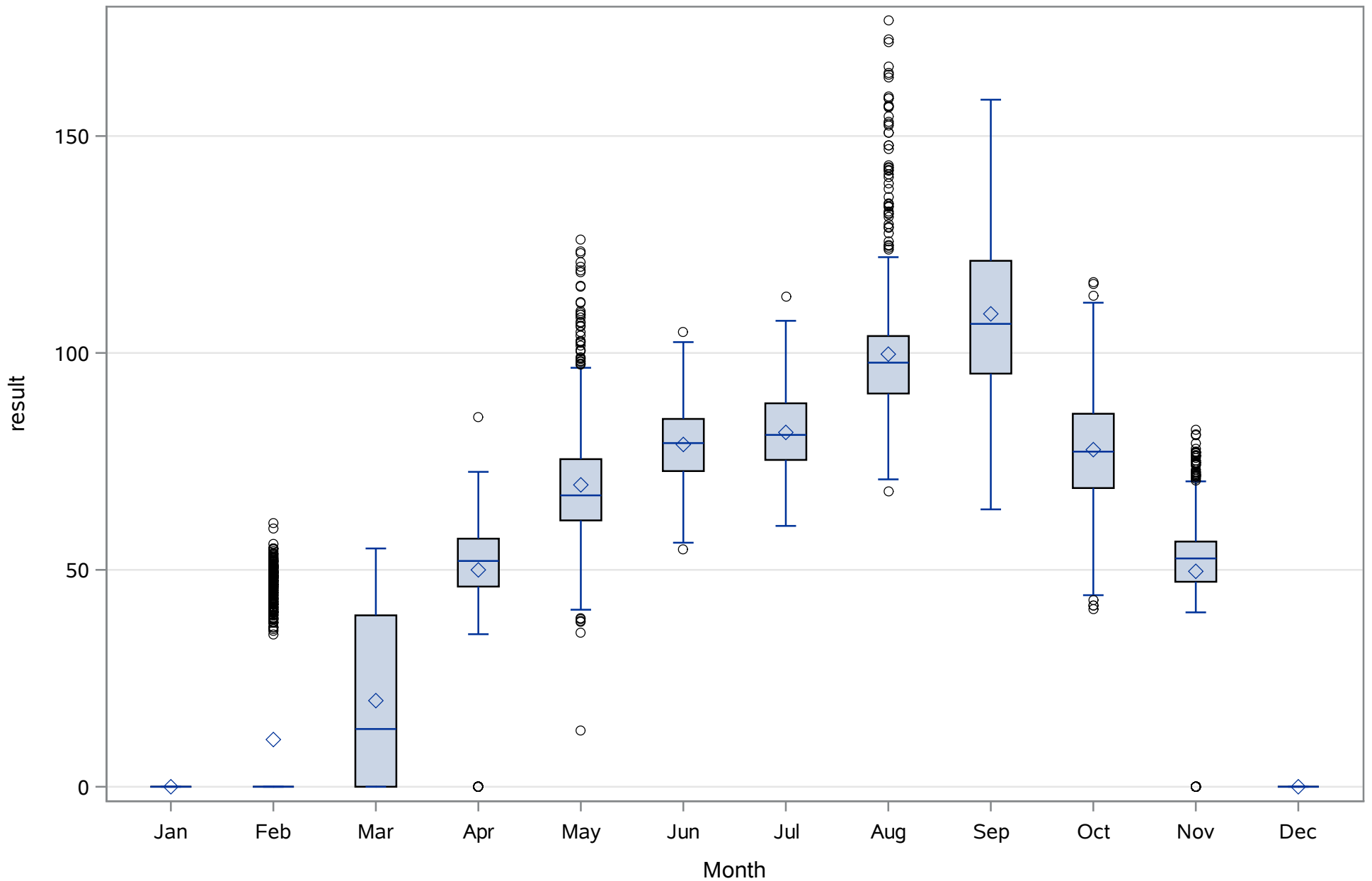
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Class Near Mouth
DO_MGL



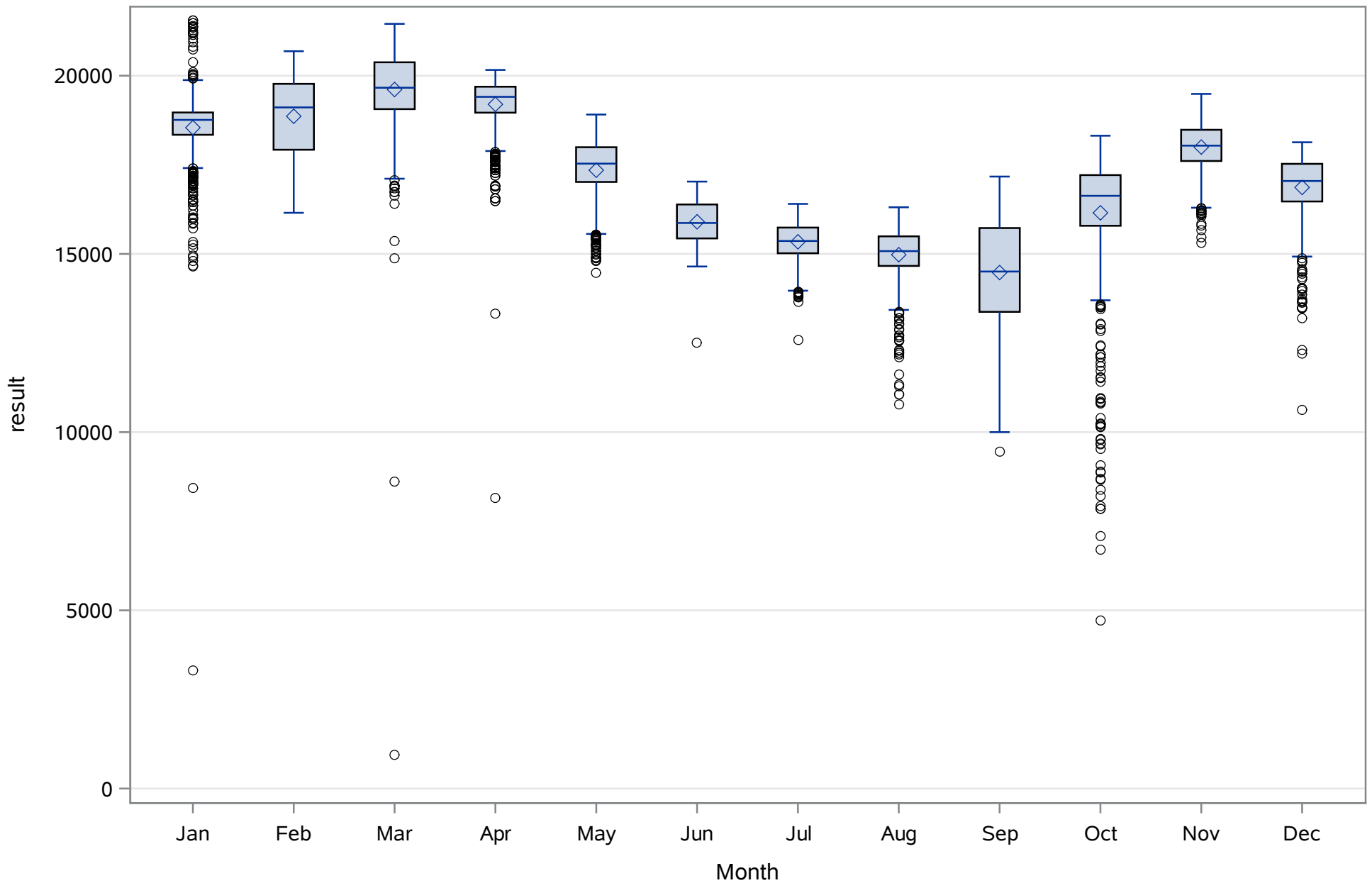
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Class Near Mouth
DO_PCT



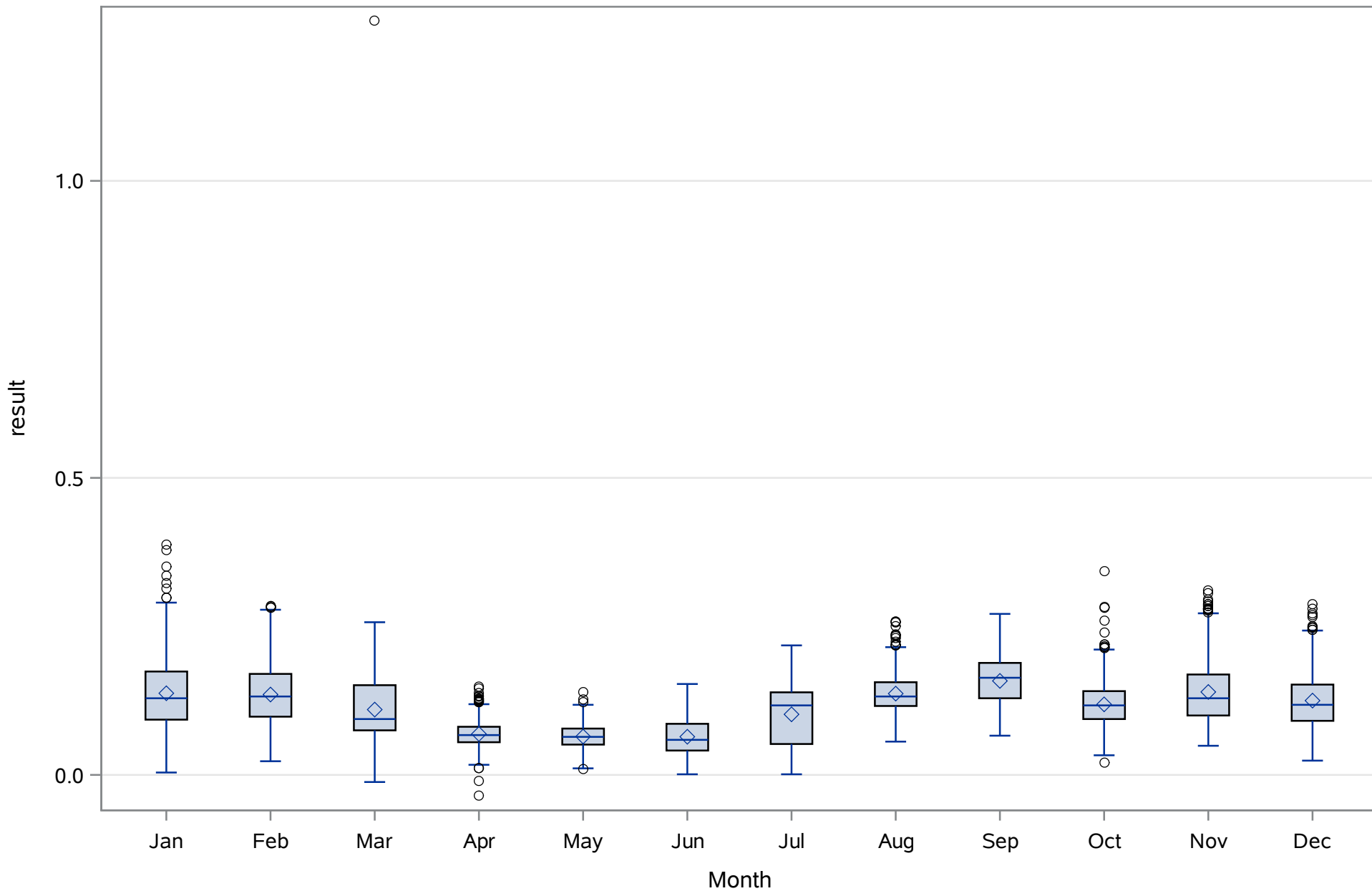
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
FDOM_QSU



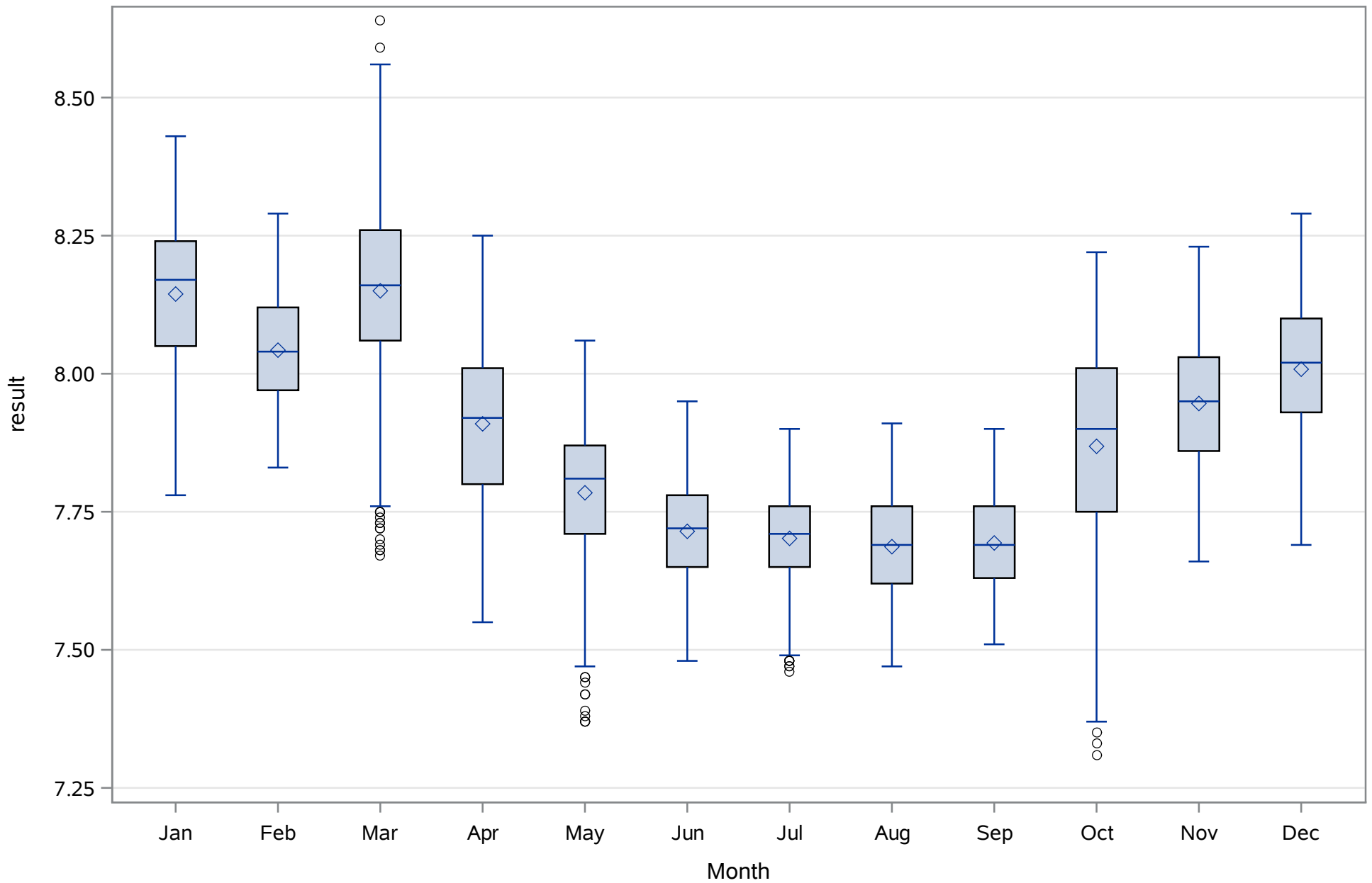
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
LIGHT_SPECTRUM_AVG



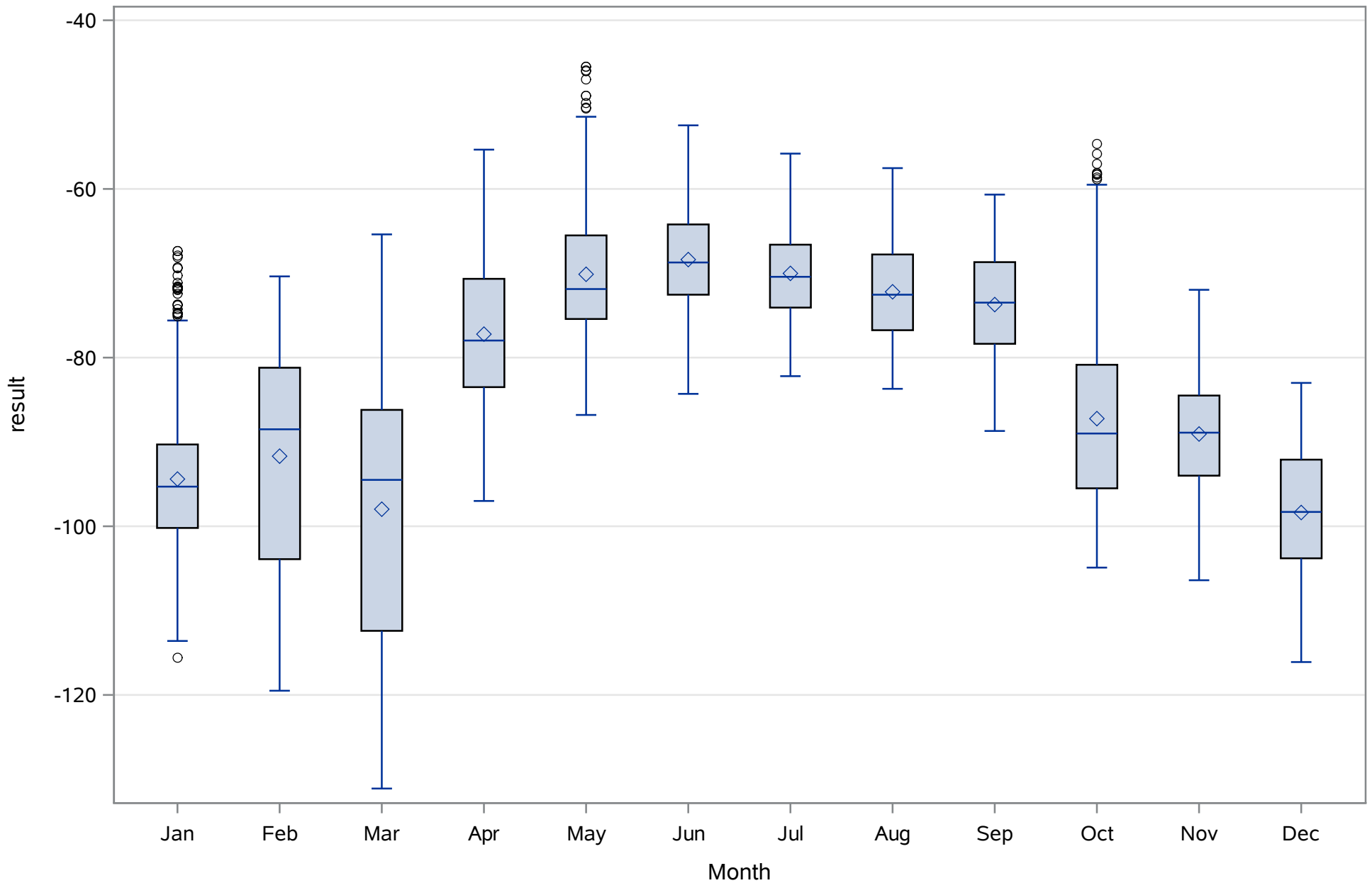
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Class Near Mouth
NITRATE_MGL



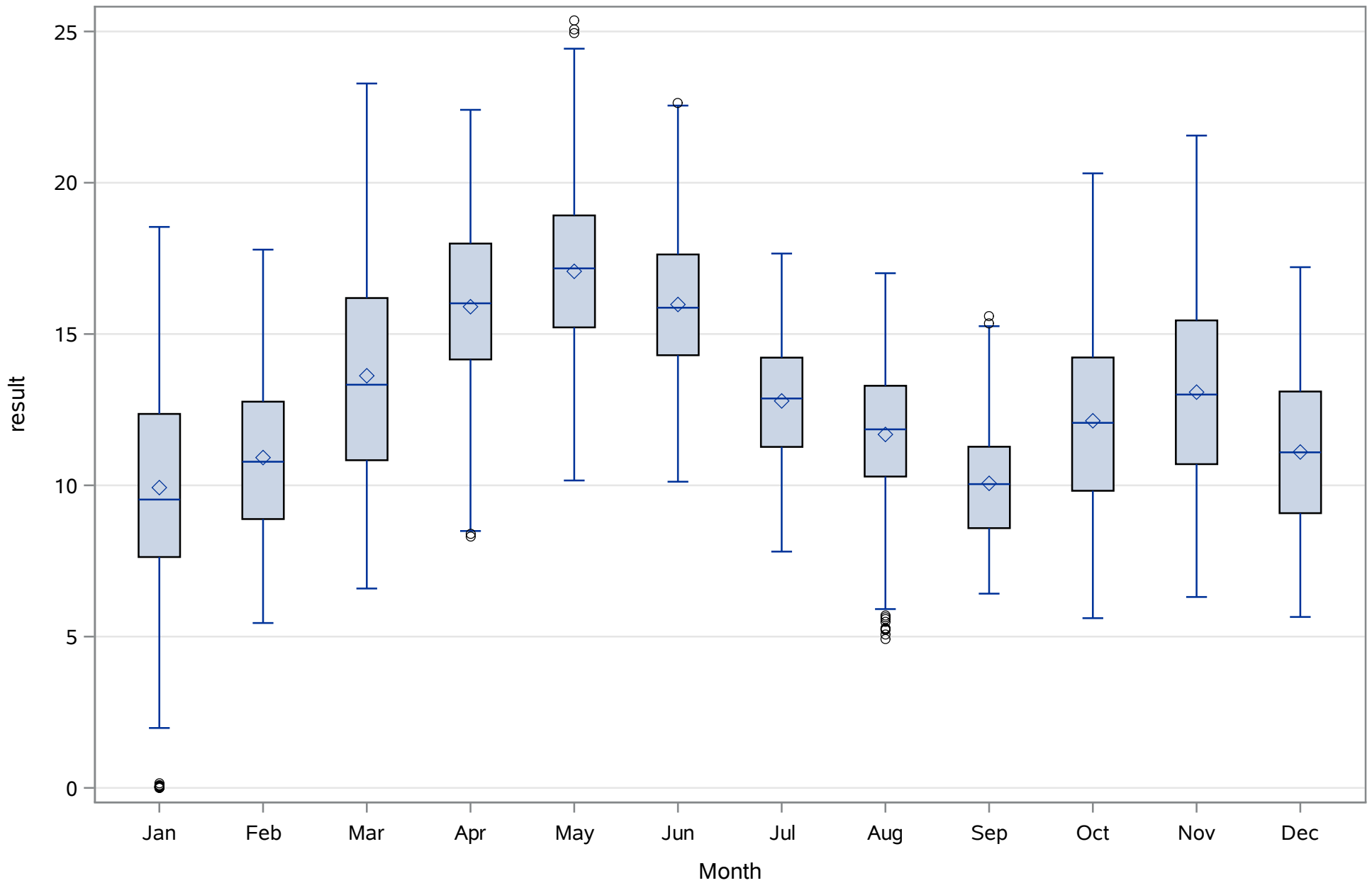
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
PH



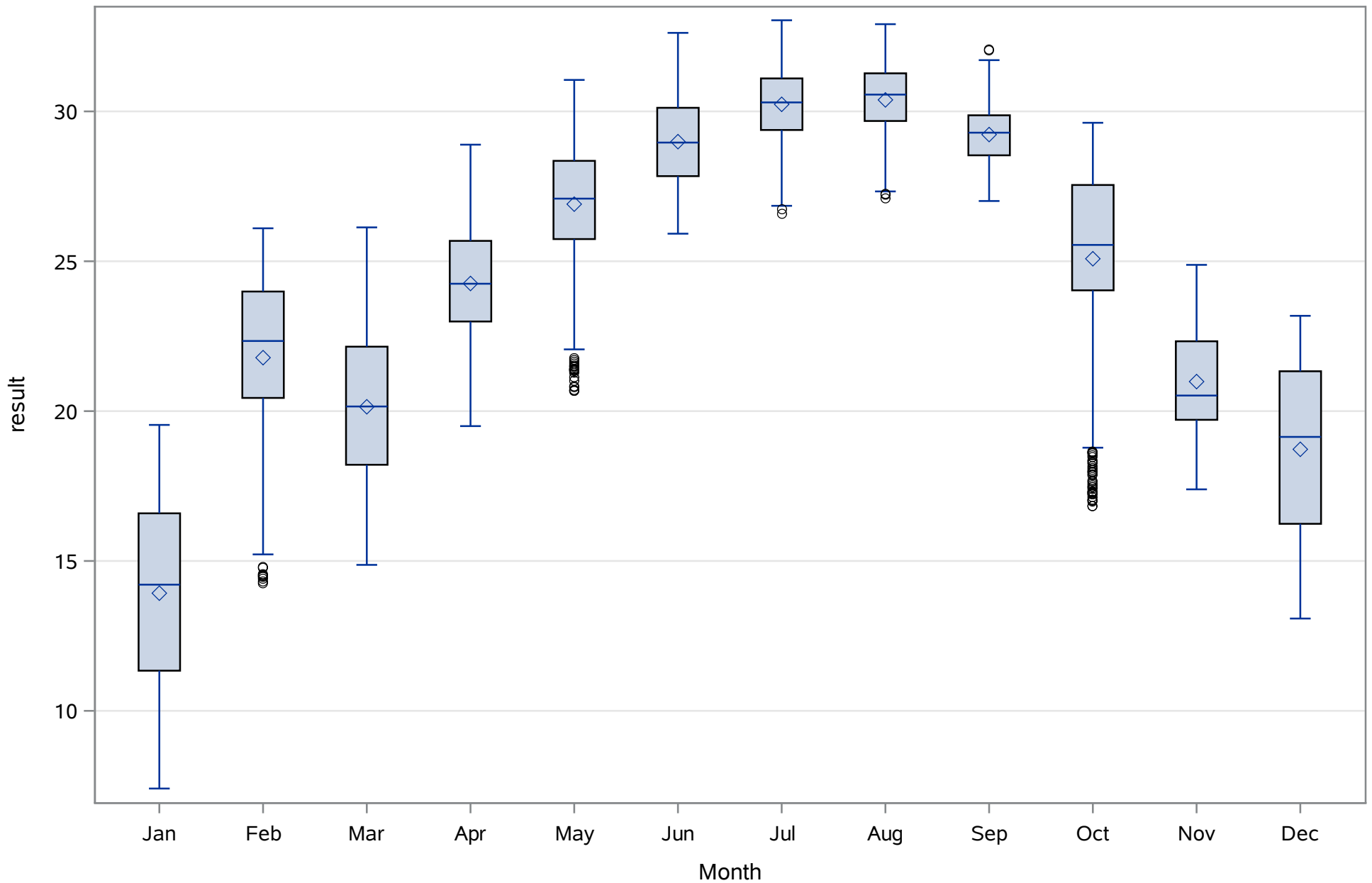
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
PH_mV



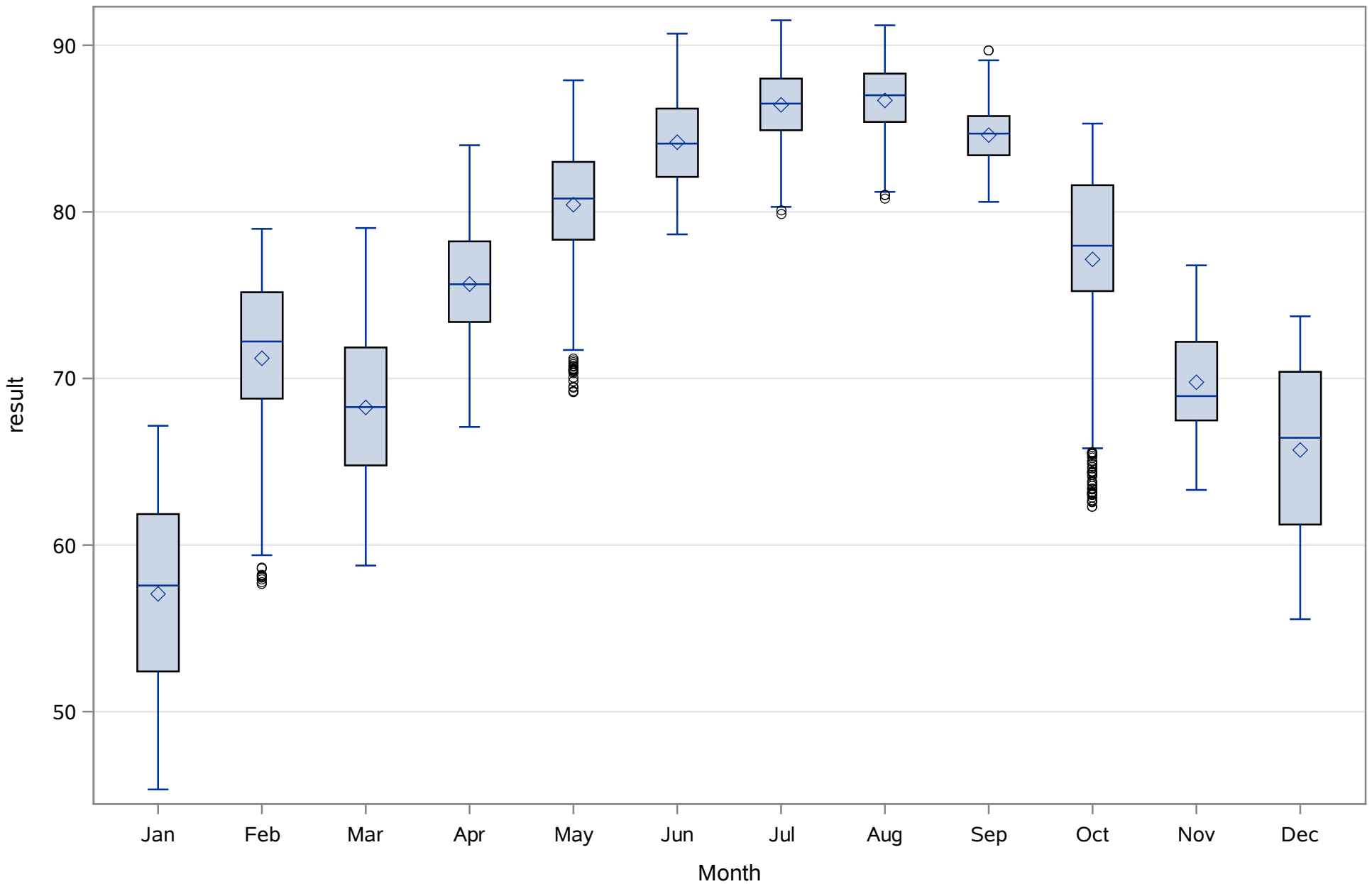
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Class Near Mouth
SAL_PPT



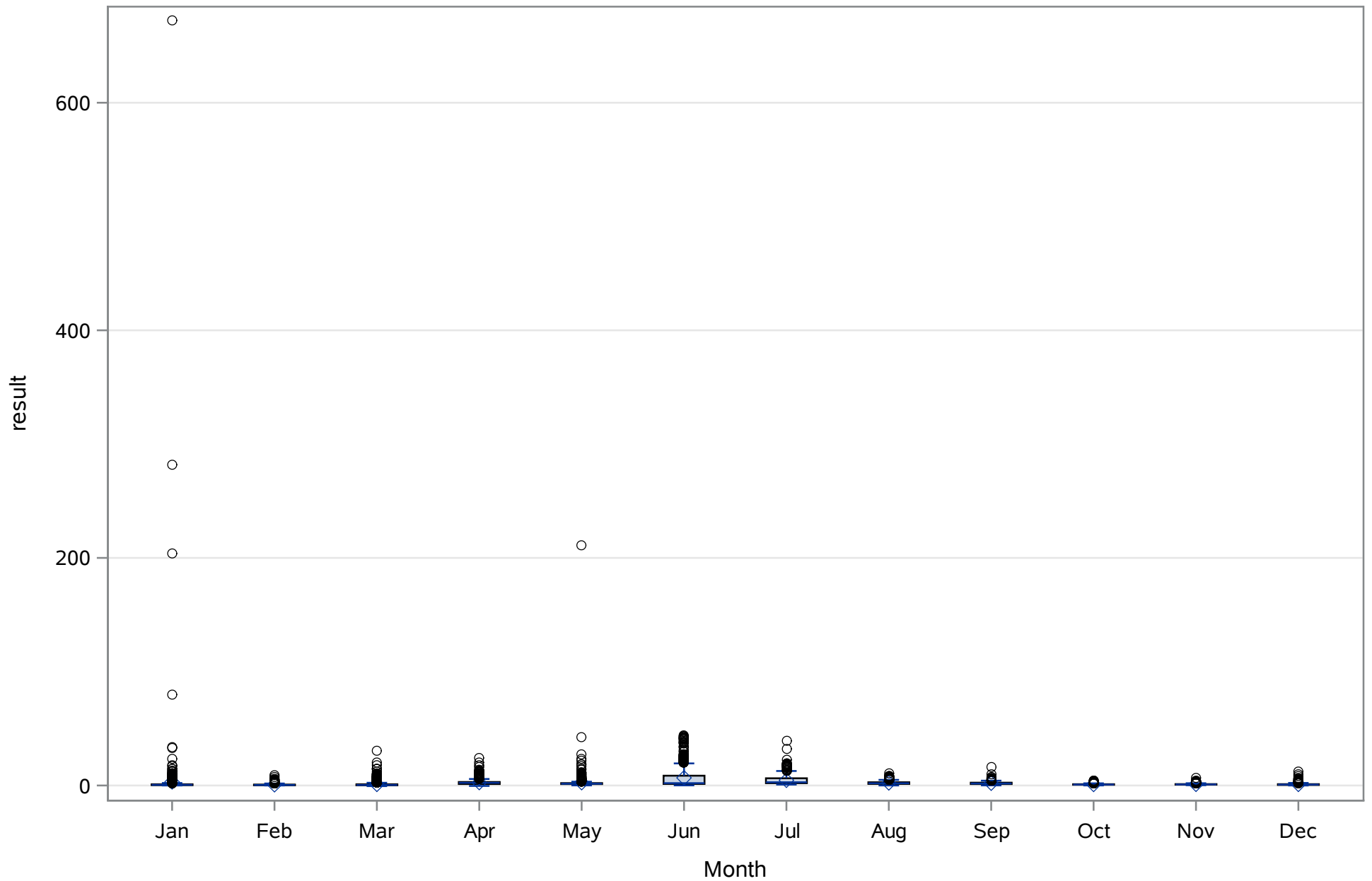
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Class Near Mouth
TEMP_C



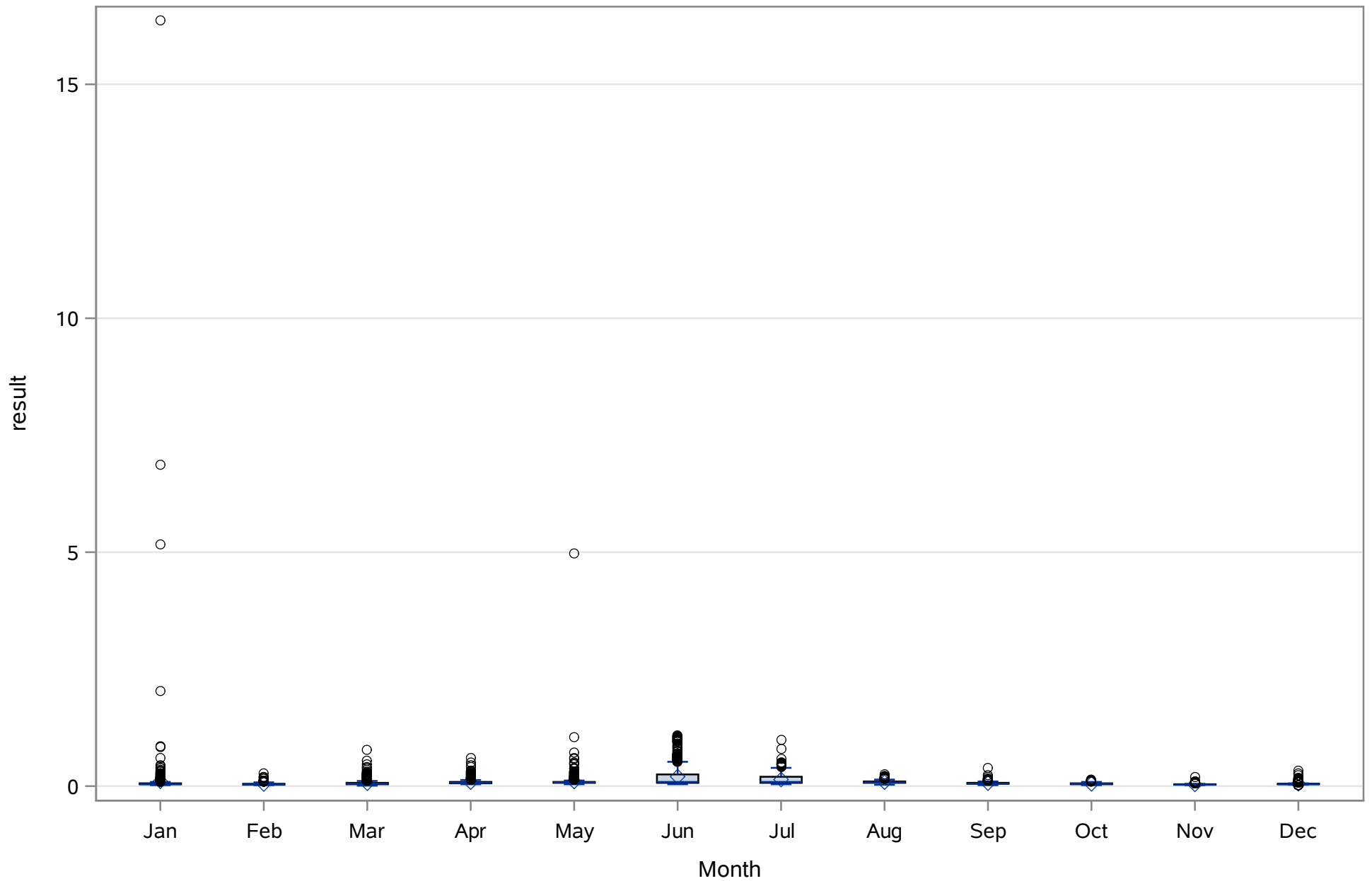
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TEMP_F



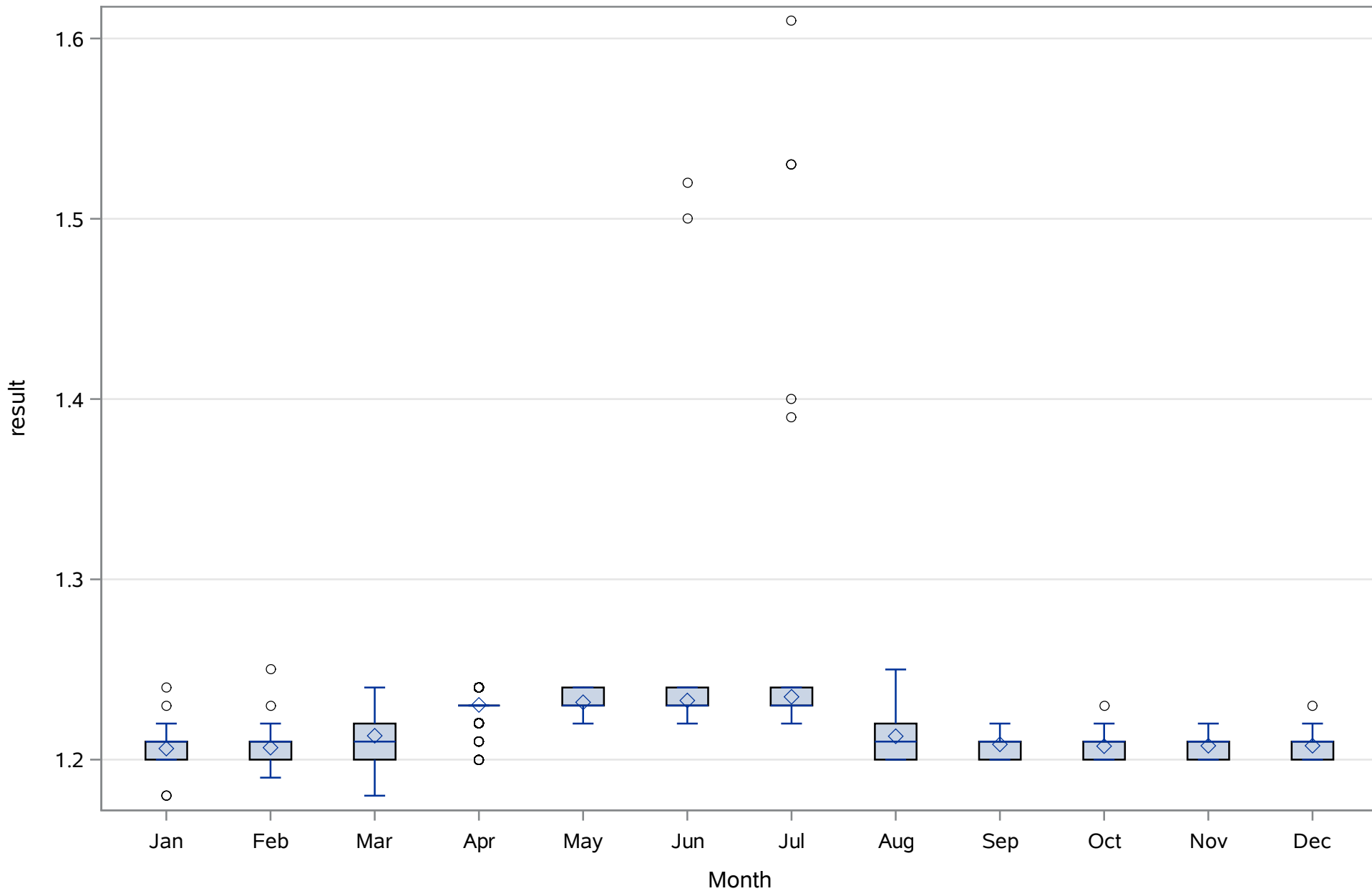
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_NTU



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
TURB_RAW



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near Mouth
WIPER_POS_V



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
BATTV_EXO		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
CHLA_UGL		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
COND		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
DARK_SPECTRUM_AVG		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
DEPTH_M		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
DO_MGL		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
DO_PCT		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
FDOM_QSU		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
LIGHT_SPECTRUM_AVG		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
NITRATE_MGL		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
NITRATE_UM		DEC2017	DEC2017	1	0.0%	0.0%	0.0%
PH		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
PH_mV		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
SAL_PPT		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
TEMP_C		FEB2017	DEC2017	6344	0.0%	0.0%	0.0%
TEMP_F		FEB2017	DEC2017	6344	0.0%	0.0%	0.0%
TURB_NTU		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
TURB_RAW		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%
WIPER_POS_V		FEB2017	DEC2017	6869	0.0%	0.0%	0.0%

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

BATTV_EXO

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	0	Sum Observations	0
Std Deviation	0	Variance	0
Skewness	.	Kurtosis	.
Uncorrected SS	0	Corrected SS	0
Coeff Variation	.	Std Error Mean	0

Basic Statistical Measures			
Location		Variability	
Mean	0	Std Deviation	0
Median	0	Variance	0
Mode	0	Range	0
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > t 	.
Sign	M	.	Pr >= M 	.
Signed Rank	S	.	Pr >= S 	.

Quantiles (Definition 5)	
Level	Quantile
100% Max	0
99%	0
95%	0
90%	0
75% Q3	0
50% Median	0
25% Q1	0
10%	0
5%	0
1%	0
0% Min	0

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
BATTV_EXO

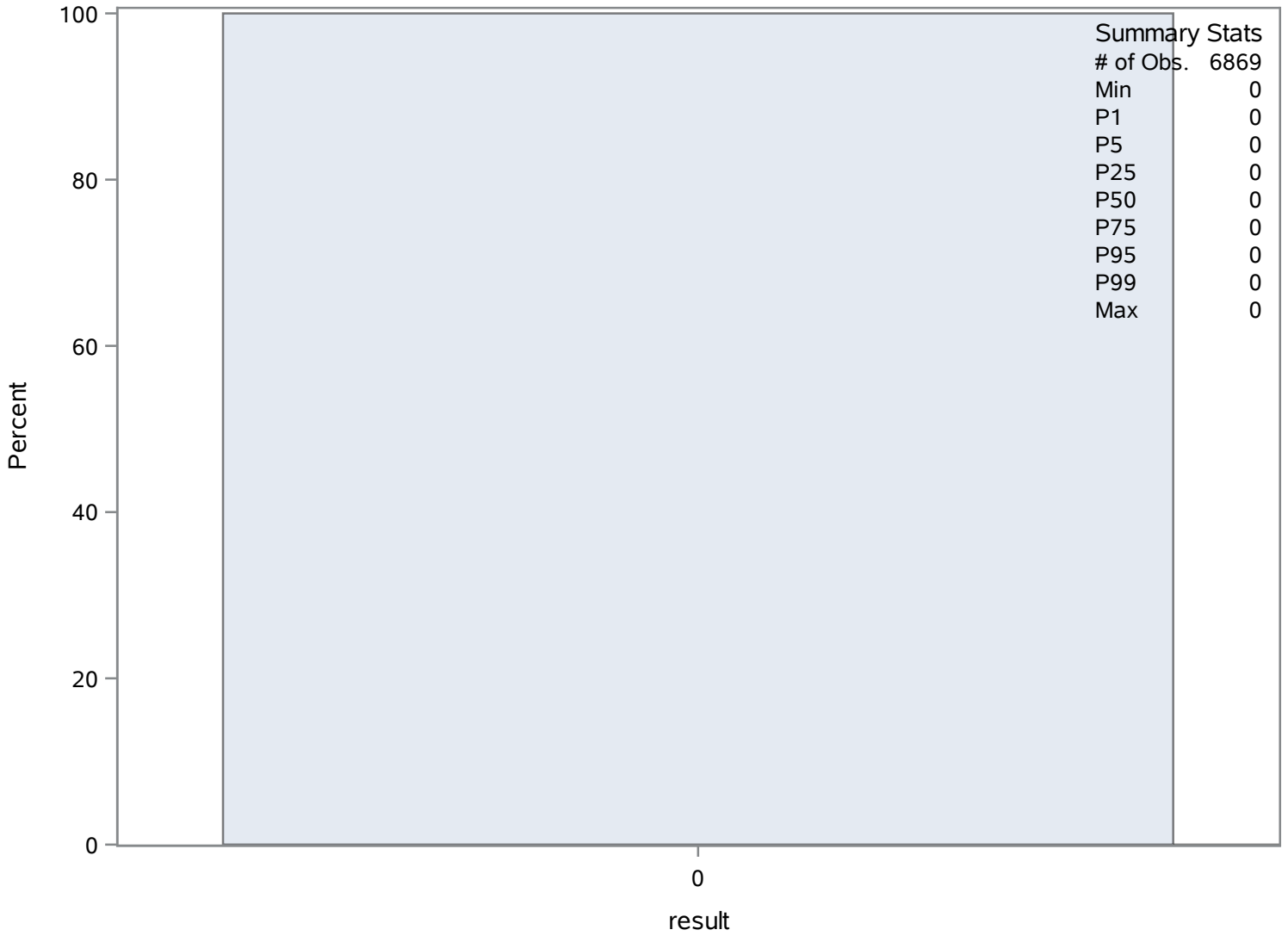
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	6869	0	6865
0	6868	0	6866
0	6867	0	6867
0	6866	0	6868
0	6865	0	6869

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
BATTV_EXO

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
CHLA_UGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	7.1169457	Sum Observations	48886.3
Std Deviation	9.9853942	Variance	99.7080973
Skewness	22.9409991	Kurtosis	953.771112
Uncorrected SS	1032716.35	Corrected SS	684795.212
Coeff Variation	140.304488	Std Error Mean	0.12048097

Basic Statistical Measures			
Location		Variability	
Mean	7.116946	Std Deviation	9.98539
Median	6.030000	Variance	99.70810
Mode	0.000000	Range	502.70000
		Interquartile Range	4.94000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	59.07112	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	502.70
99%	32.30
95%	15.54
90%	11.88
75% Q3	8.54
50% Median	6.03
25% Q1	3.60
10%	1.91
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
CHLA_UGL

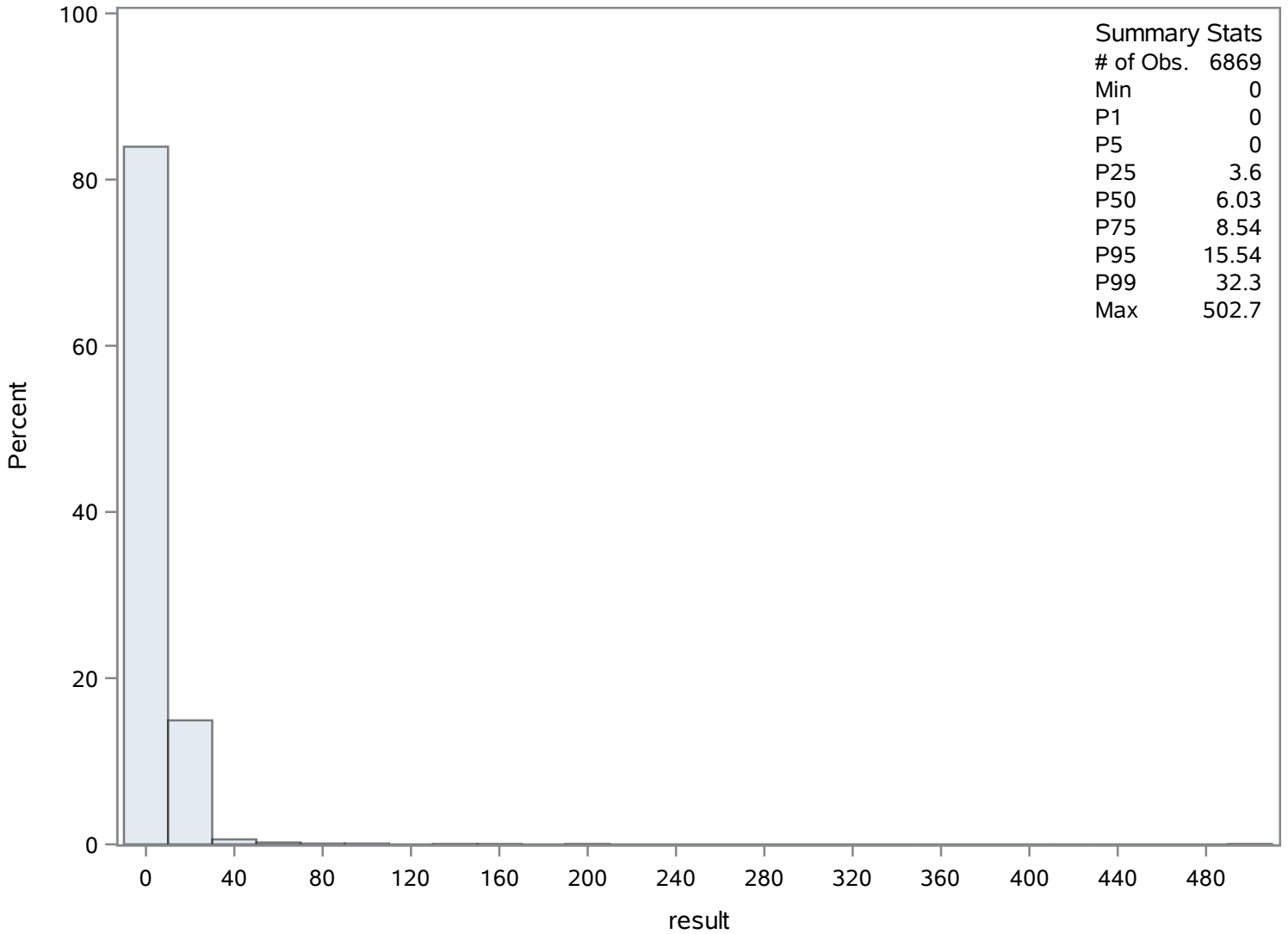
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	13738	143.4	6885
0	13737	167.9	8665
0	13736	194.4	9854
0	13735	207.6	9852
0	13734	502.7	8807

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
CHLA_UGL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

COND

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	12558.8729	Sum Observations	86266897.7
Std Deviation	6618.26699	Variance	43801457.9
Skewness	0.30083669	Kurtosis	-0.1505144
Uncorrected SS	1.38424E12	Corrected SS	3.00828E11
Coeff Variation	52.6979376	Std Error Mean	79.8541562

Basic Statistical Measures			
Location		Variability	
Mean	12558.87	Std Deviation	6618
Median	11901.52	Variance	43801458
Mode	0.00	Range	36786
		Interquartile Range	9231

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	157.2726	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	36786.03
99%	28694.56
95%	24146.74
90%	21739.95
75% Q3	16972.49
50% Median	11901.52
25% Q1	7741.16
10%	5530.50
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
COND

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	20607	34143.6	15971
0	20606	35330.1	15527
0	20605	35772.2	15974
0	20604	35815.6	15972
0	20603	36786.0	15973

Chassahowitzka River - Continuous Recorder

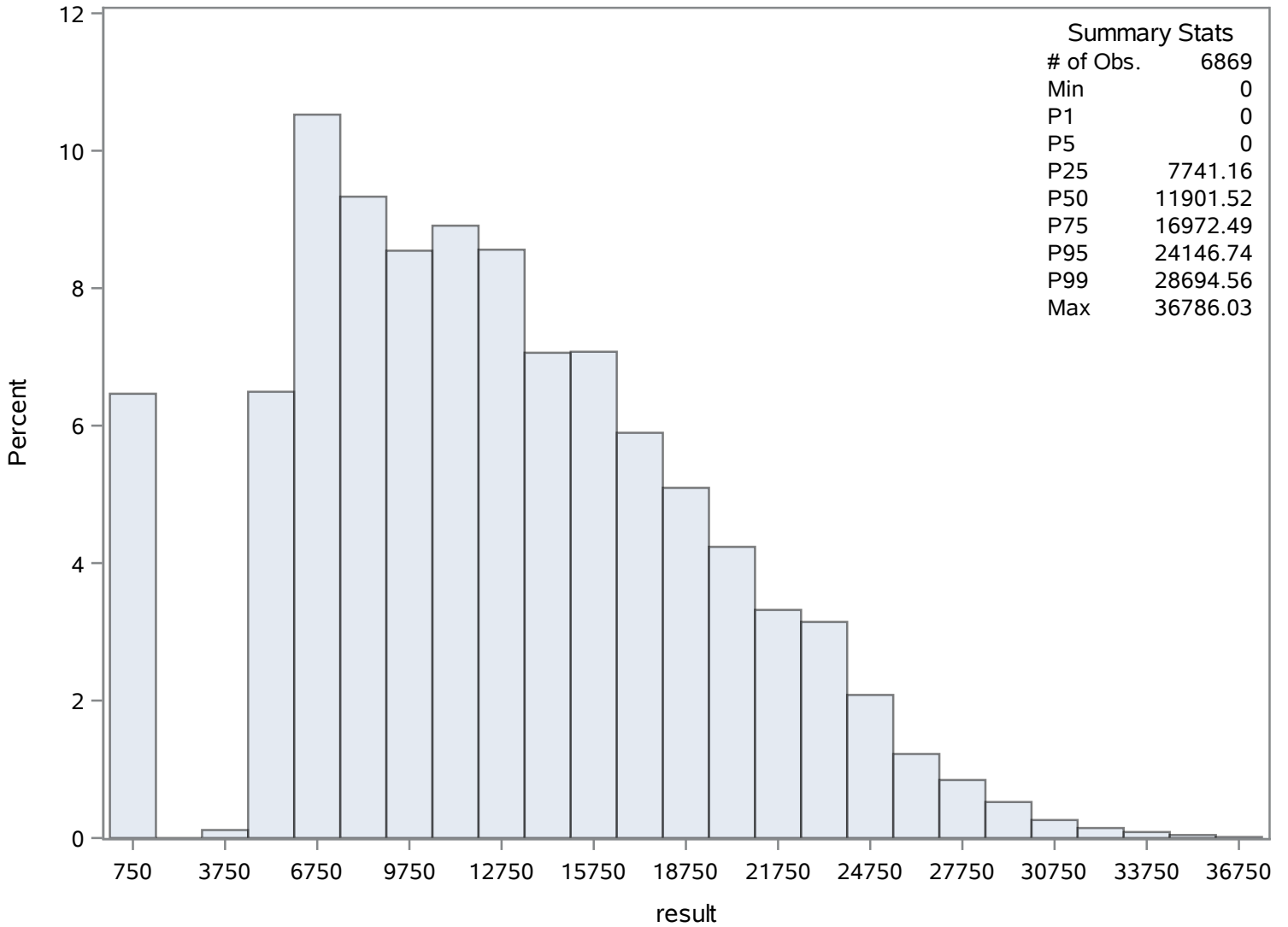
Source: Continuous Recorder

Chass Near USGS Gage

COND

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

DARK_SPECTRUM_AVG

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	791.537778	Sum Observations	5437073
Std Deviation	22.0172453	Variance	484.759092
Skewness	-13.068603	Kurtosis	485.12661
Uncorrected SS	4306978009	Corrected SS	3329325.45
Coeff Variation	2.78157859	Std Error Mean	0.26565392

Basic Statistical Measures			
Location		Variability	
Mean	791.5378	Std Deviation	22.01725
Median	788.0000	Variance	484.75909
Mode	772.0000	Range	857.00000
		Interquartile Range	24.00000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	2979.583	Pr > t 	<.0001
Sign	M	3433.5	Pr >= M 	<.0001
Signed Rank	S	11790639	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	857
99%	841
95%	828
90%	817
75% Q3	802
50% Median	788
25% Q1	778
10%	772
5%	771
1%	770
0% Min	0

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DARK_SPECTRUM_AVG

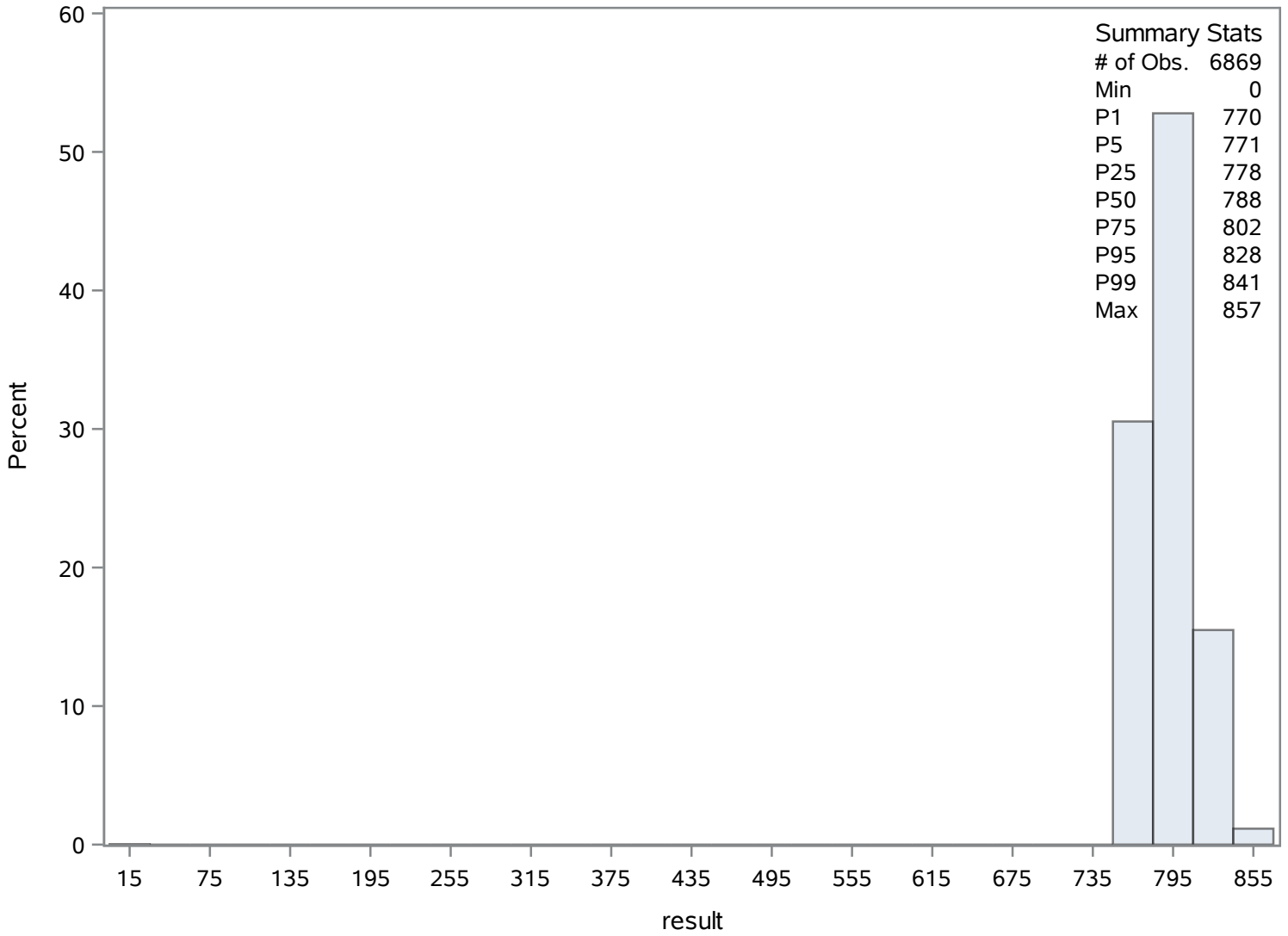
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	27476	847	23797
0	27453	848	23634
769	27009	850	23635
769	27005	853	23731
769	26883	857	23730

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DARK_SPECTRUM_AVG

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

DEPTH_M

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	1.289183	Sum Observations	8855.398
Std Deviation	0.42438595	Variance	0.18010344
Skewness	-1.813062	Kurtosis	3.41091714
Uncorrected SS	12653.1789	Corrected SS	1236.9504
Coeff Variation	32.9189847	Std Error Mean	0.00512052

Basic Statistical Measures			
Location		Variability	
Mean	1.289183	Std Deviation	0.42439
Median	1.379000	Variance	0.18010
Mode	0.000000	Range	2.18200
		Interquartile Range	0.39100

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	251.7679	Pr > t 	<.0001
Sign	M	3188.5	Pr >= M 	<.0001
Signed Rank	S	10168127	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	2.182
99%	1.876
95%	1.738
90%	1.669
75% Q3	1.553
50% Median	1.379
25% Q1	1.162
10%	0.947
5%	0.000
1%	0.000
0% Min	0.000

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DEPTH_M

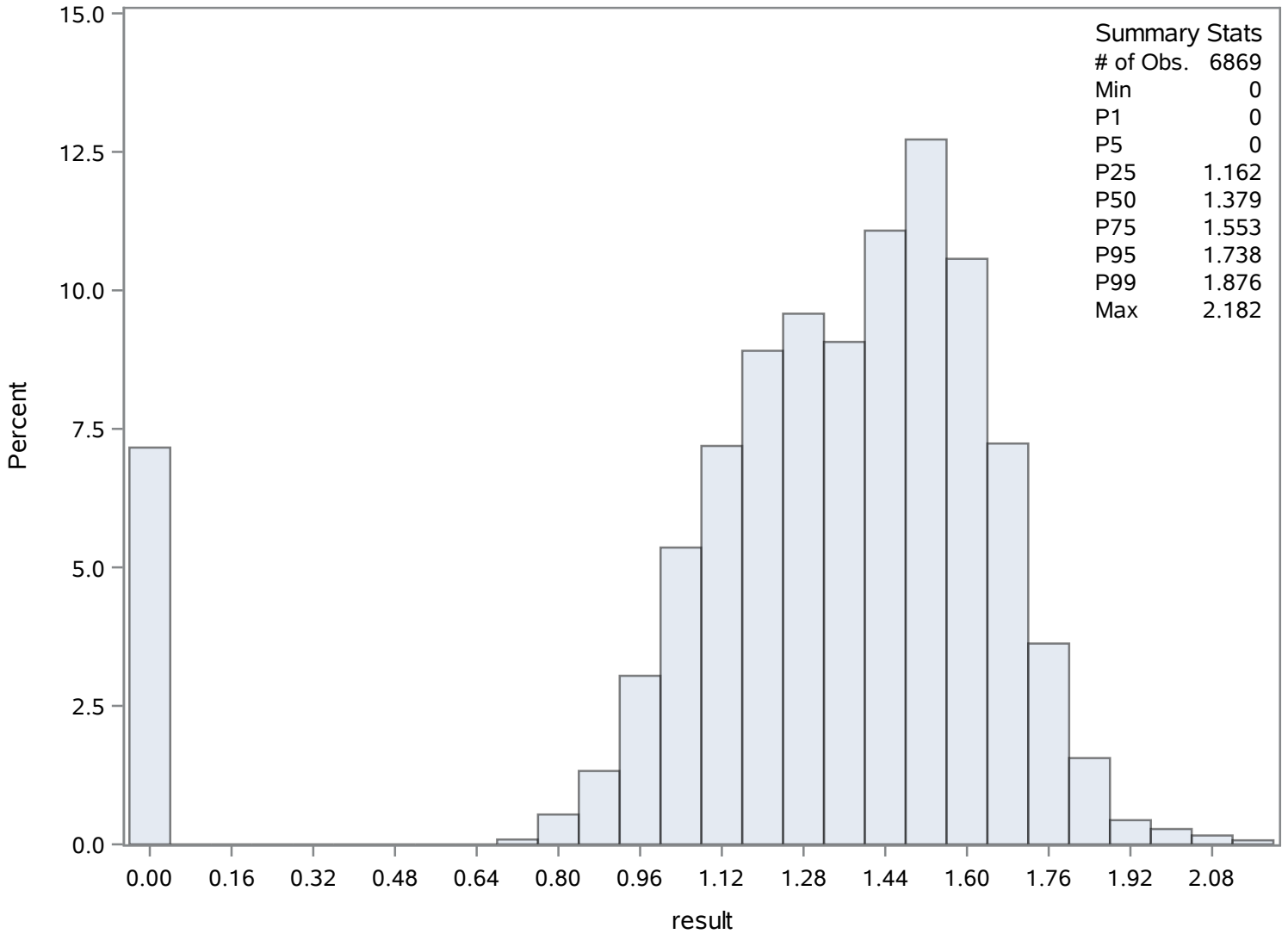
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	34345	2.134	32616
0	34344	2.139	32617
0	34343	2.151	32628
0	34342	2.174	29710
0	34341	2.182	32627

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DEPTH_M

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

DO_MGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	4.88264231	Sum Observations	33538.87
Std Deviation	2.28412217	Variance	5.21721409
Skewness	-0.0590878	Kurtosis	0.61215039
Uncorrected SS	199590.132	Corrected SS	35831.8263
Coeff Variation	46.7804526	Std Error Mean	0.02755958

Basic Statistical Measures			
Location		Variability	
Mean	4.882642	Std Deviation	2.28412
Median	4.880000	Variance	5.21721
Mode	0.000000	Range	15.03000
		Interquartile Range	2.52000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	177.1668	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	15.03
99%	10.67
95%	8.53
90%	7.63
75% Q3	6.25
50% Median	4.88
25% Q1	3.73
10%	2.11
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DO_MGL

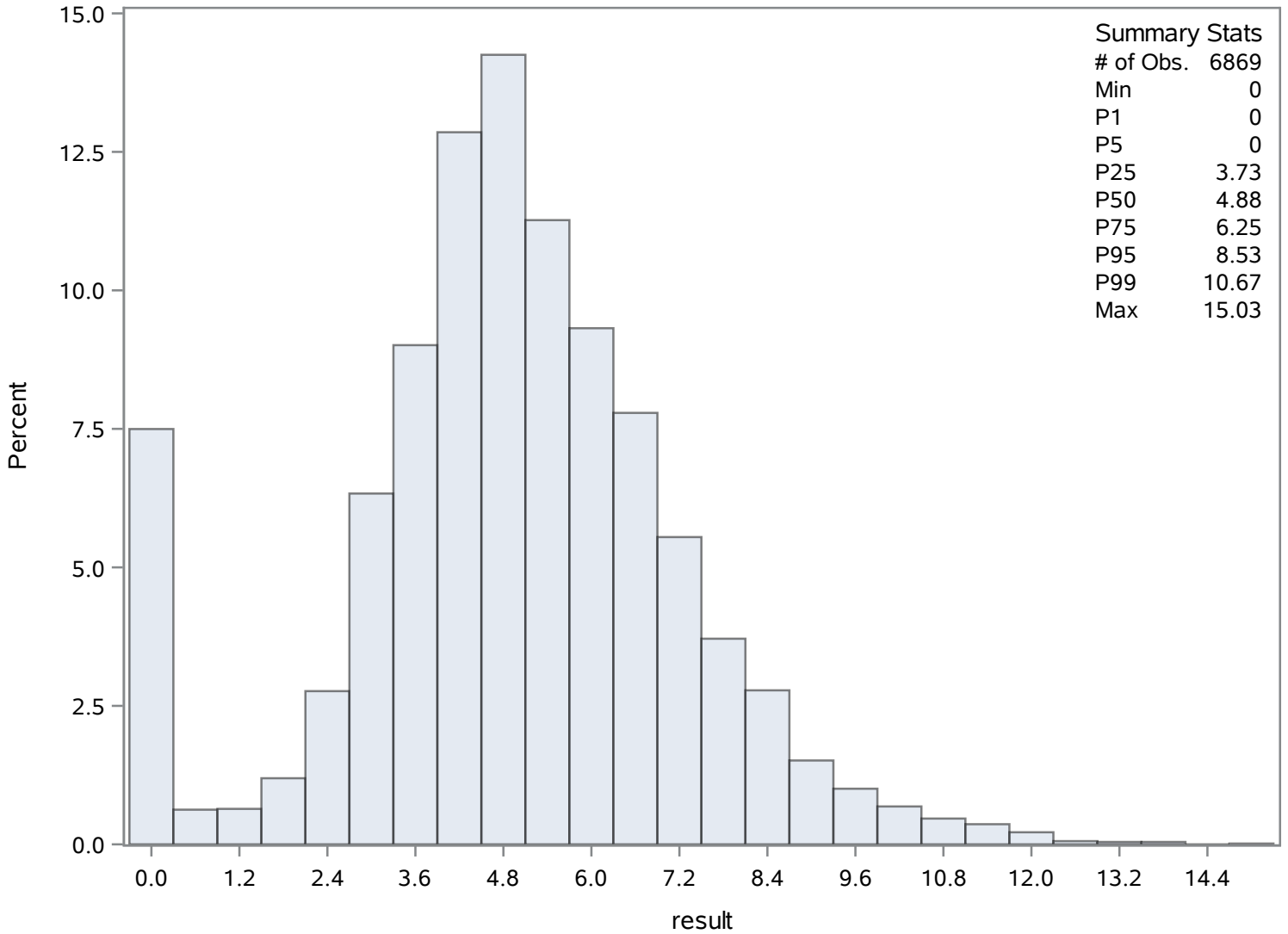
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	41214	13.42	35086
0	41213	13.55	34751
0	41212	13.63	37164
0	41211	13.79	35085
0	41210	15.03	37163

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DO_MGL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

DO_PCT

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	62.3582749	Sum Observations	428338.99
Std Deviation	28.3710524	Variance	804.916612
Skewness	-0.200111	Kurtosis	0.67224009
Uncorrected SS	32238647.8	Corrected SS	5528167.29
Coeff Variation	45.4968526	Std Error Mean	0.34231717

Basic Statistical Measures			
Location		Variability	
Mean	62.35827	Std Deviation	28.37105
Median	63.58000	Variance	804.91661
Mode	0.00000	Range	203.40000
		Interquartile Range	31.04000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	182.1652	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	203.40
99%	131.90
95%	106.30
90%	95.30
75% Q3	79.36
50% Median	63.58
25% Q1	48.32
10%	26.59
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DO_PCT

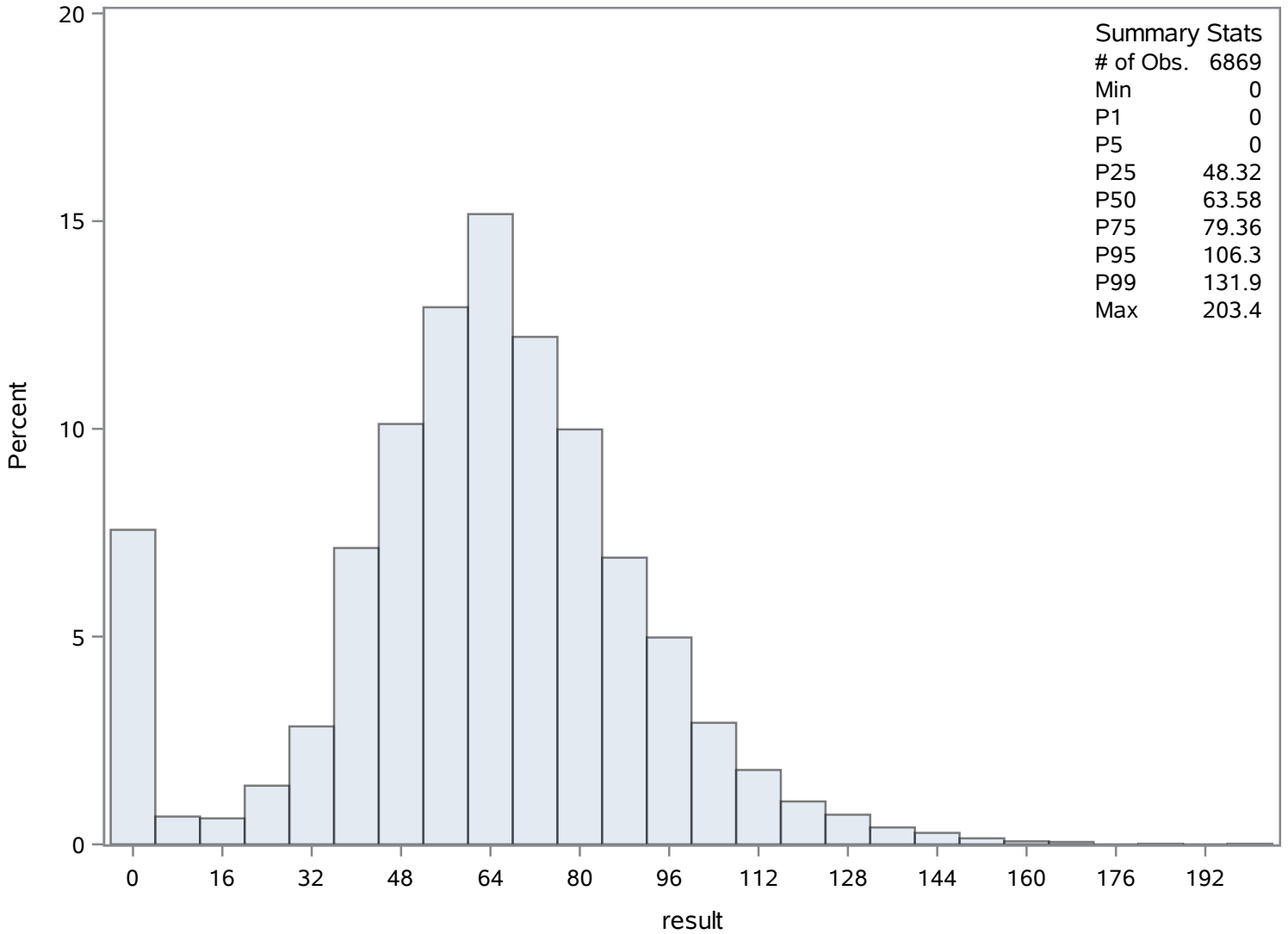
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	48083	166.1	43575
0	48082	167.0	41954
0	48081	167.9	41620
0	48080	185.6	44033
0	48079	203.4	44032

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DO_PCT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

FDOM_QSU

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	49.3290217	Sum Observations	338841.05
Std Deviation	35.0570671	Variance	1228.99796
Skewness	0.49606998	Kurtosis	0.11909218
Uncorrected SS	25155455.5	Corrected SS	8440757.97
Coeff Variation	71.0678338	Std Error Mean	0.42298876

Basic Statistical Measures			
Location		Variability	
Mean	49.32902	Std Deviation	35.05707
Median	47.64000	Variance	1229
Mode	0.00000	Range	227.52000
		Interquartile Range	55.42000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	116.6202	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	227.52
99%	141.07
95%	108.36
90%	93.41
75% Q3	74.38
50% Median	47.64
25% Q1	18.96
10%	2.10
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
FDOM_QSU

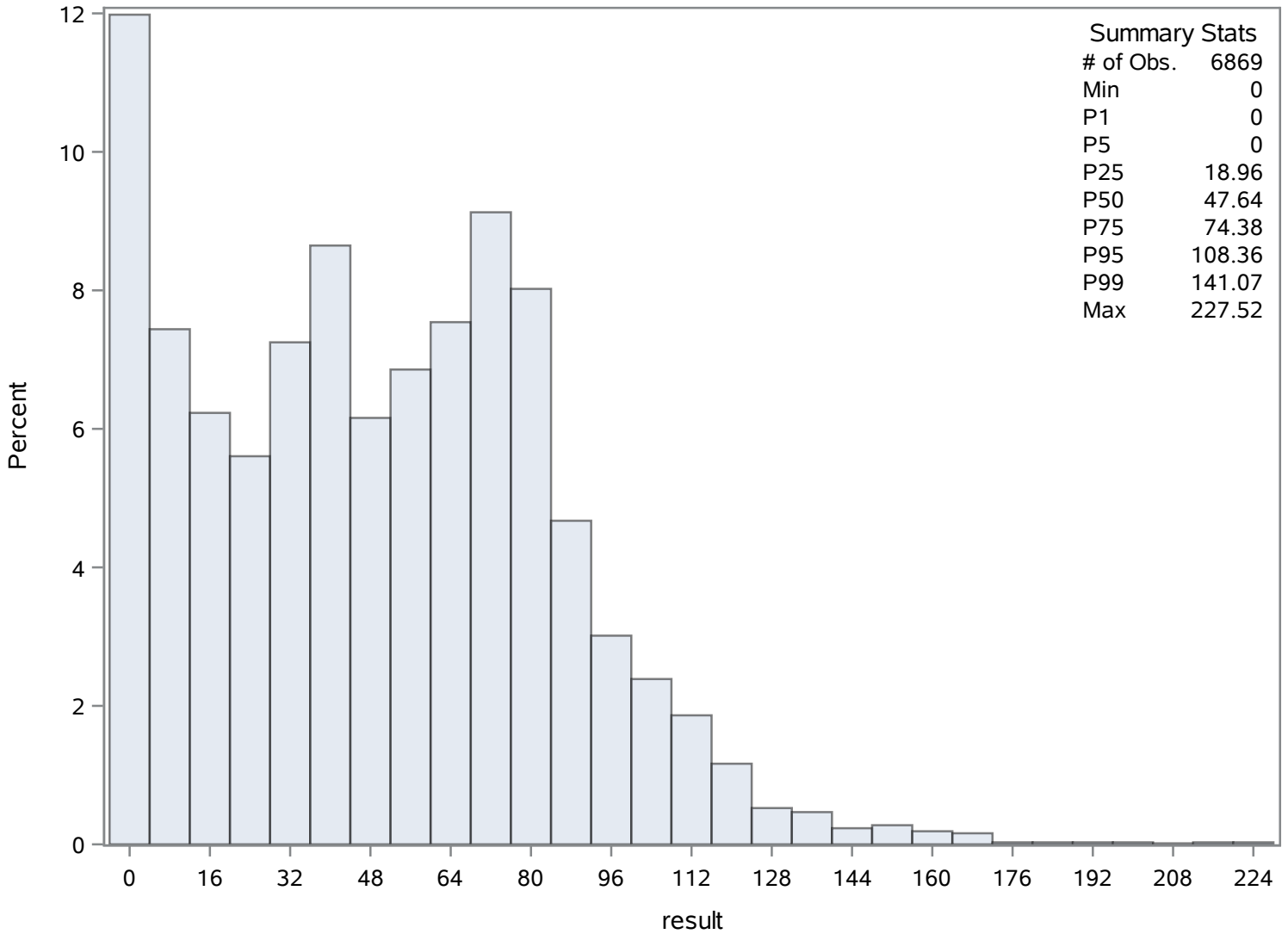
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	54952	207.22	52344
0	54951	214.11	52318
0	54950	218.49	52329
0	54949	223.48	52343
0	54948	227.52	50092

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
FDOM_QSU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

LIGHT_SPECTRUM_AVG

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	12265.0211	Sum Observations	84248430
Std Deviation	2833.31068	Variance	8027649.4
Skewness	-1.8657818	Kurtosis	6.10675353
Uncorrected SS	1.08844E12	Corrected SS	5.51339E10
Coeff Variation	23.1007403	Std Error Mean	34.1859333

Basic Statistical Measures			
Location		Variability	
Mean	12265.02	Std Deviation	2833
Median	12485.00	Variance	8027649
Mode	771.00	Range	18110
		Interquartile Range	2395

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	358.7739	Pr > t 	<.0001
Sign	M	3433.5	Pr >= M 	<.0001
Signed Rank	S	11790639	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	18110
99%	17309
95%	16365
90%	15143
75% Q3	13693
50% Median	12485
25% Q1	11298
10%	10145
5%	8384
1%	771
0% Min	0

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
LIGHT_SPECTRUM_AVG

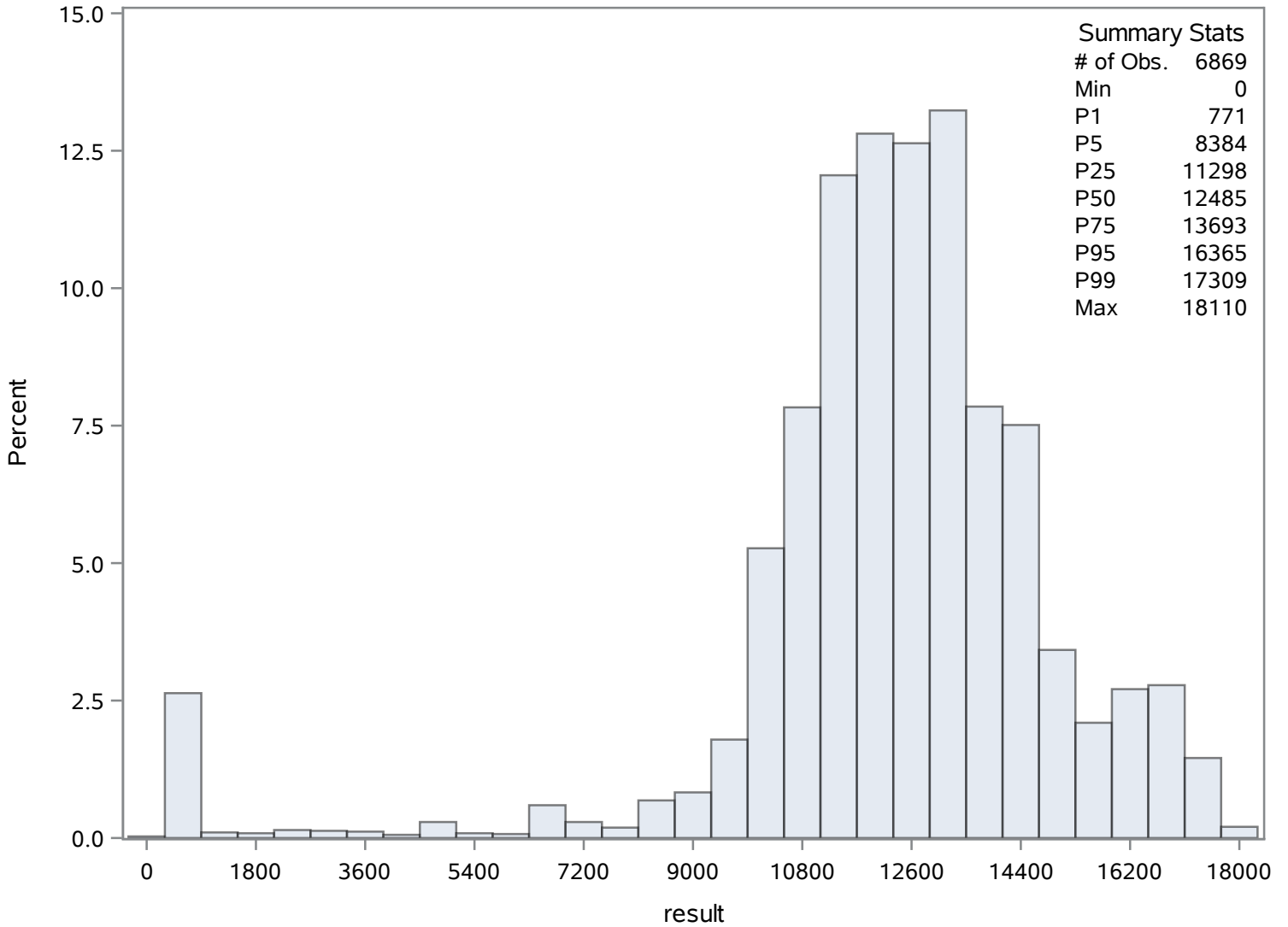
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	61821	17868	55575
0	61798	17940	55384
769	55312	18059	55601
769	55277	18100	55406
769	55216	18110	55383

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
LIGHT_SPECTRUM_AVG

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

NITRATE_MGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	0.18389664	Sum Observations	1263.186
Std Deviation	0.0939013	Variance	0.00881745
Skewness	0.9084684	Kurtosis	0.72080032
Uncorrected SS	292.853938	Corrected SS	60.5582806
Coeff Variation	51.0620019	Std Error Mean	0.00113299

Basic Statistical Measures			
Location		Variability	
Mean	0.183897	Std Deviation	0.09390
Median	0.160000	Variance	0.00882
Mode	0.222000	Range	0.66100
		Interquartile Range	0.13000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	162.3114	Pr > t 	<.0001
Sign	M	3427	Pr >= M 	<.0001
Signed Rank	S	11746043	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.661
99%	0.419
95%	0.362
90%	0.331
75% Q3	0.241
50% Median	0.160
25% Q1	0.111
10%	0.083
5%	0.071
1%	0.048
0% Min	0.000

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
NITRATE_MGL

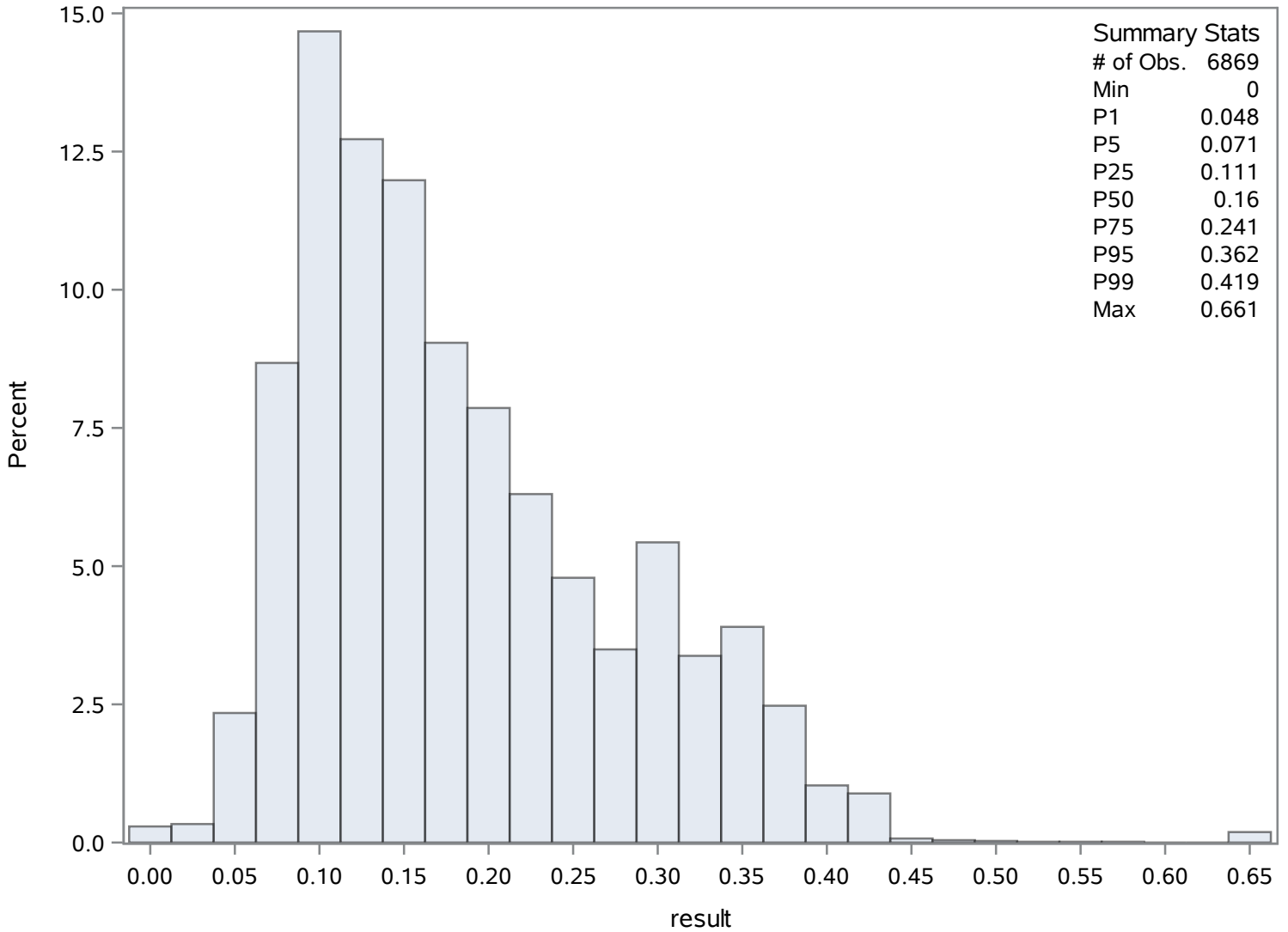
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	68690	0.661	64680
0	68667	0.661	64681
0	68640	0.661	64682
0	68615	0.661	64683
0	68590	0.661	64684

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
NITRATE_MGL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

PH

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	7.15855583	Sum Observations	49172.12
Std Deviation	1.89654974	Variance	3.59690091
Skewness	-3.4506506	Kurtosis	10.1426283
Uncorrected SS	376704.882	Corrected SS	24703.5155
Coeff Variation	26.4934686	Std Error Mean	0.02288324

Basic Statistical Measures			
Location		Variability	
Mean	7.158556	Std Deviation	1.89655
Median	7.640000	Variance	3.59690
Mode	0.000000	Range	8.52000
		Interquartile Range	0.26000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	312.8297	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.52
99%	8.26
95%	8.00
90%	7.92
75% Q3	7.77
50% Median	7.64
25% Q1	7.51
10%	7.25
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
PH

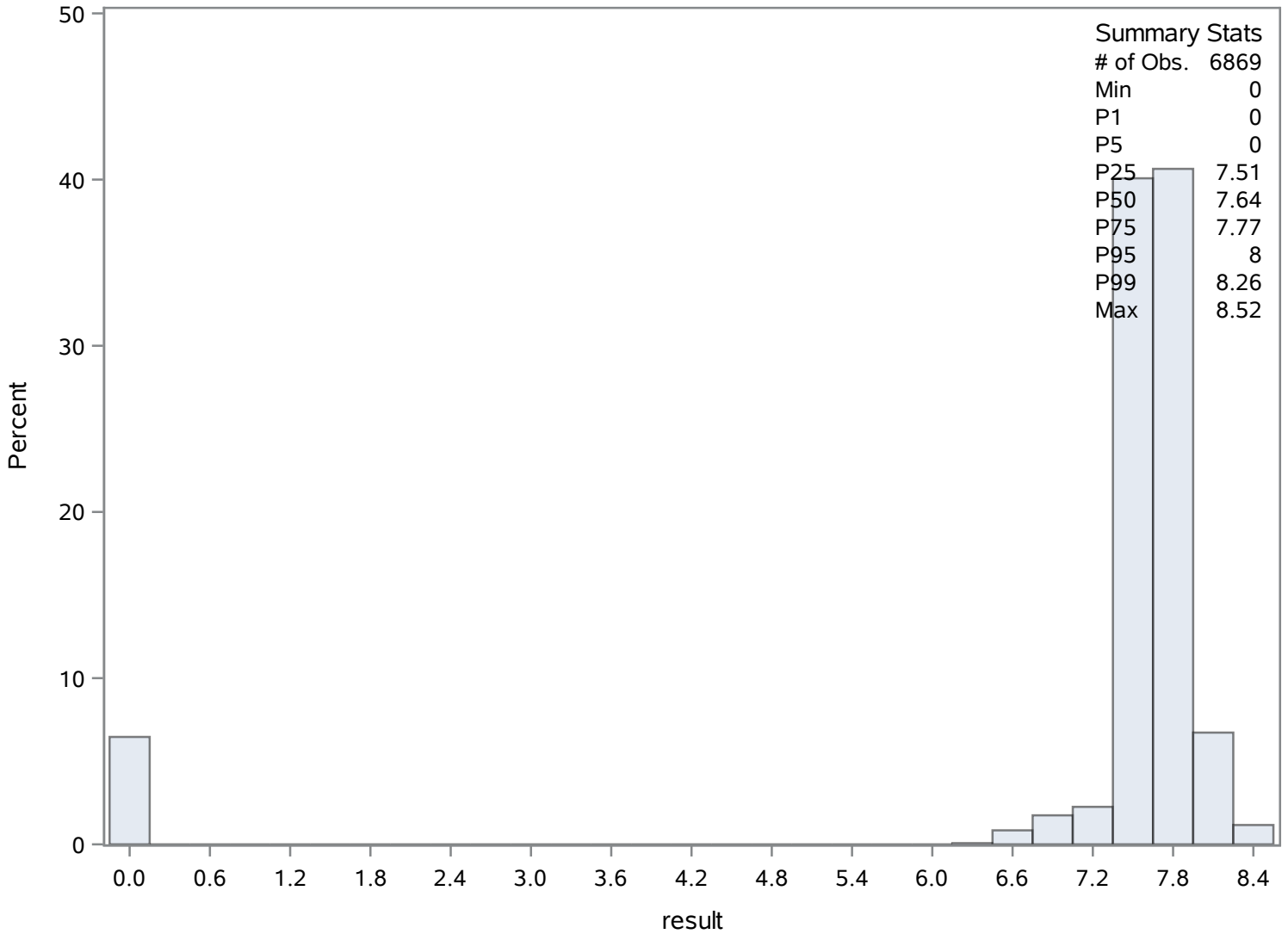
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	75559	8.47	69443
0	75558	8.48	69278
0	75557	8.50	69441
0	75556	8.51	69449
0	75555	8.52	69442

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
PH

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

PH_mV

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	-56.29558	Sum Observations	-386694.34
Std Deviation	26.8430258	Variance	720.548034
Skewness	0.44251555	Kurtosis	-0.5206842
Uncorrected SS	26717906.1	Corrected SS	4948723.9
Coeff Variation	-47.682297	Std Error Mean	0.32388043

Basic Statistical Measures			
Location		Variability	
Mean	-56.2956	Std Deviation	26.84303
Median	-61.6200	Variance	720.54803
Mode	0.0000	Range	130.58000
		Interquartile Range	40.25000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	-173.816	Pr > t	<.0001
Sign	M	-3170.5	Pr >= M	<.0001
Signed Rank	S	-1.019E7	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.08
99%	0.00
95%	0.00
90%	-20.38
75% Q3	-36.92
50% Median	-61.62
25% Q1	-77.17
10%	-86.50
5%	-94.40
1%	-104.70
0% Min	-122.50

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
PH_mV

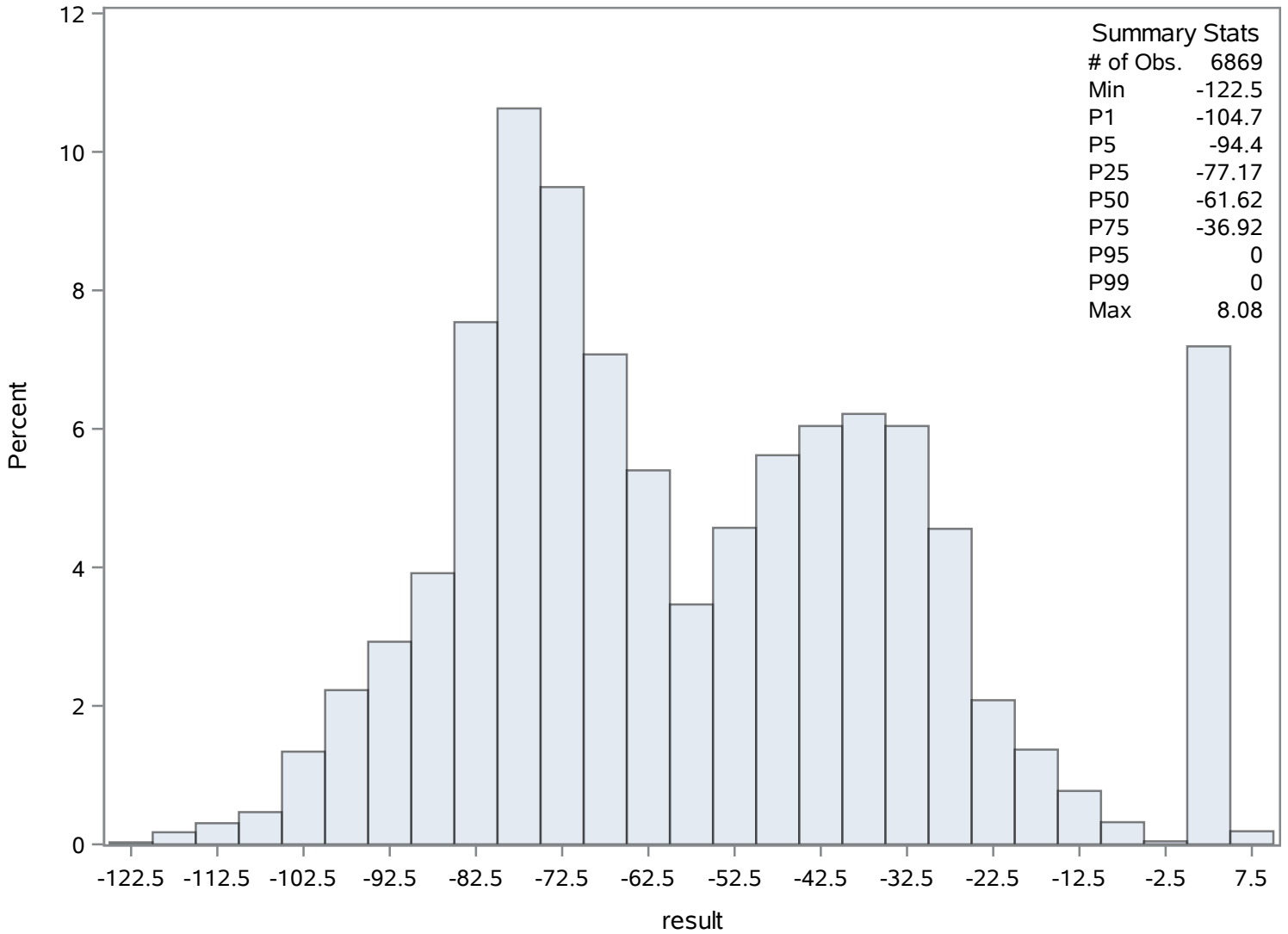
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-122.5	78394	7.38	75573
-120.9	76311	7.38	75574
-119.9	76318	7.39	75560
-119.8	76310	8.08	75575
-117.8	76312	8.08	75576

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
PH_mV

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

SAL_PPT

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	7.29590479	Sum Observations	50115.57
Std Deviation	4.07884447	Variance	16.6369722
Skewness	0.45189993	Kurtosis	-0.0531319
Uncorrected SS	479901.152	Corrected SS	114262.725
Coeff Variation	55.9059443	Std Error Mean	0.0492142

Basic Statistical Measures			
Location		Variability	
Mean	7.295905	Std Deviation	4.07884
Median	6.780000	Variance	16.63697
Mode	0.000000	Range	23.22000
		Interquartile Range	5.68000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	148.248	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	23.22
99%	17.65
95%	14.63
90%	13.03
75% Q3	9.95
50% Median	6.78
25% Q1	4.27
10%	2.99
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
SAL_PPT

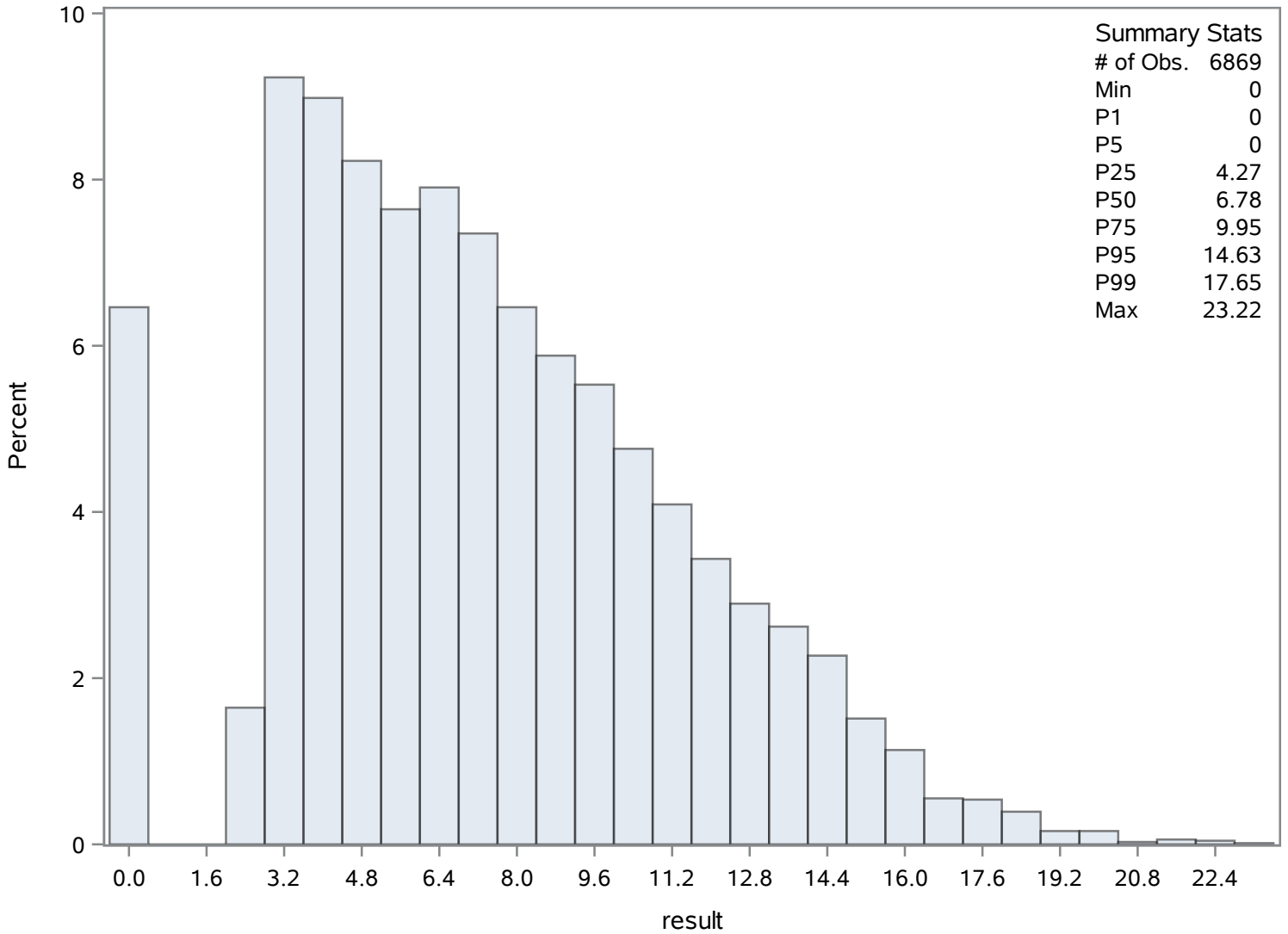
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	89297	21.45	84218
0	89296	22.29	84217
0	89295	22.51	84664
0	89294	22.54	84662
0	89293	23.22	84663

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
SAL_PPT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	6344	Sum Weights	6344
Mean	25.7944105	Sum Observations	163639.74
Std Deviation	3.31816726	Variance	11.010234
Skewness	-0.3996234	Kurtosis	-0.2603799
Uncorrected SS	4290828.54	Corrected SS	69837.914
Coeff Variation	12.8639004	Std Error Mean	0.04165975

Basic Statistical Measures			
Location		Variability	
Mean	25.79441	Std Deviation	3.31817
Median	26.32000	Variance	11.01023
Mode	27.71000	Range	32.96000
		Interquartile Range	5.22000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	619.1686	Pr > t 	<.0001
Sign	M	3171.5	Pr >= M 	<.0001
Signed Rank	S	10059998	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	32.96
99%	31.68
95%	30.57
90%	29.82
75% Q3	28.42
50% Median	26.32
25% Q1	23.20
10%	20.94
5%	20.07
1%	18.61
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_C

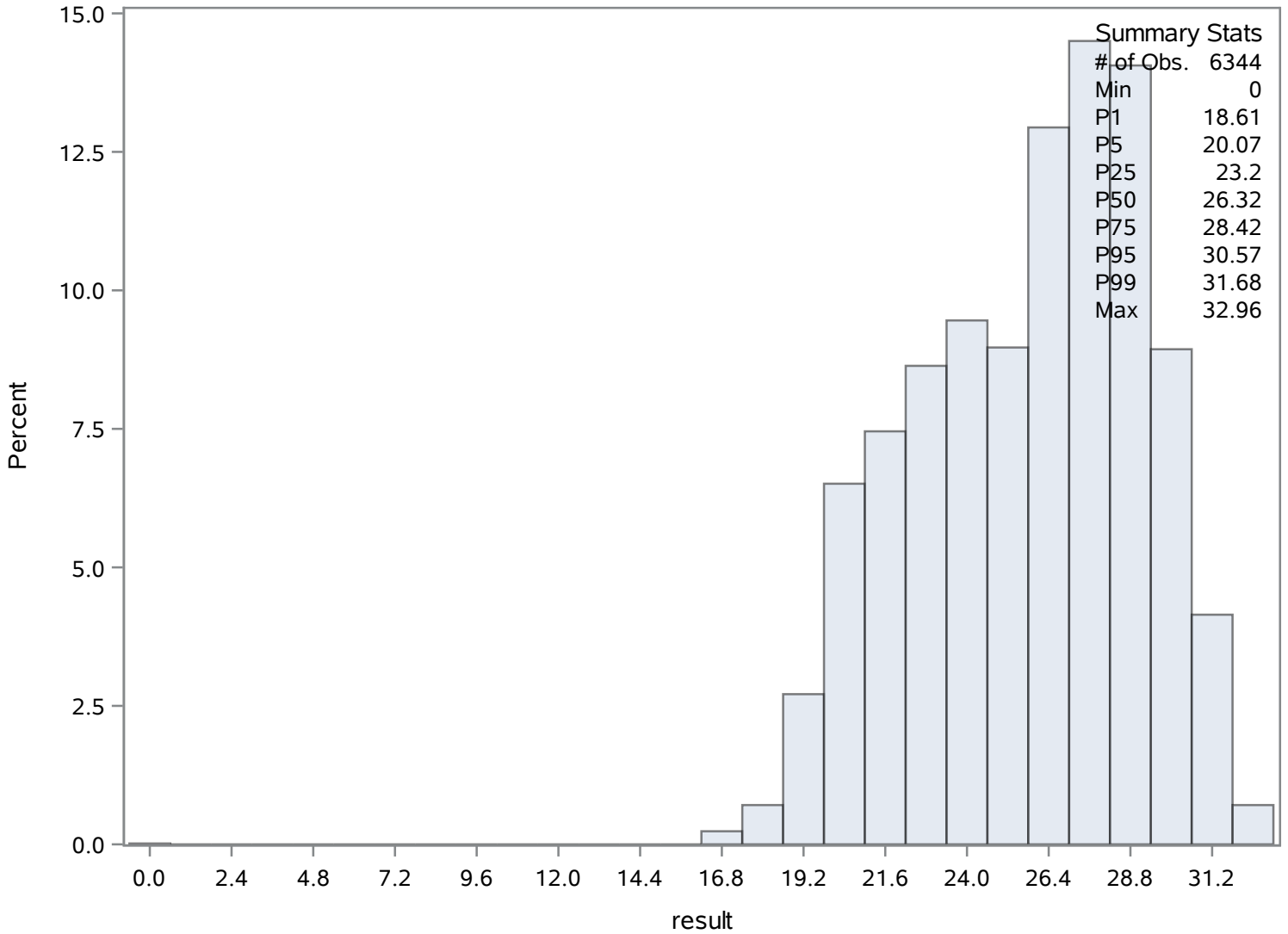
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	95641	32.22	93378
16.54	94939	32.26	92421
16.55	89866	32.39	92325
16.62	89865	32.42	92324
16.77	89867	32.96	92420

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_F

The UNIVARIATE Procedure
Variable: result

Moments			
N	6344	Sum Weights	6344
Mean	78.4182314	Sum Observations	497485.26
Std Deviation	6.02716553	Variance	36.3267244
Skewness	-0.526055	Kurtosis	0.74734066
Uncorrected SS	39242334.6	Corrected SS	230420.413
Coeff Variation	7.68592383	Std Error Mean	0.07567136

Basic Statistical Measures			
Location		Variability	
Mean	78.41823	Std Deviation	6.02717
Median	79.37000	Variance	36.32672
Mode	82.10000	Range	59.30000
		Interquartile Range	9.33500

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	1036.3	Pr > t 	<.0001
Sign	M	3172	Pr >= M 	<.0001
Signed Rank	S	10063170	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	91.300
99%	89.000
95%	87.000
90%	85.700
75% Q3	83.100
50% Median	79.370
25% Q1	73.765
10%	69.700
5%	68.110
1%	65.490
0% Min	32.000

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_F

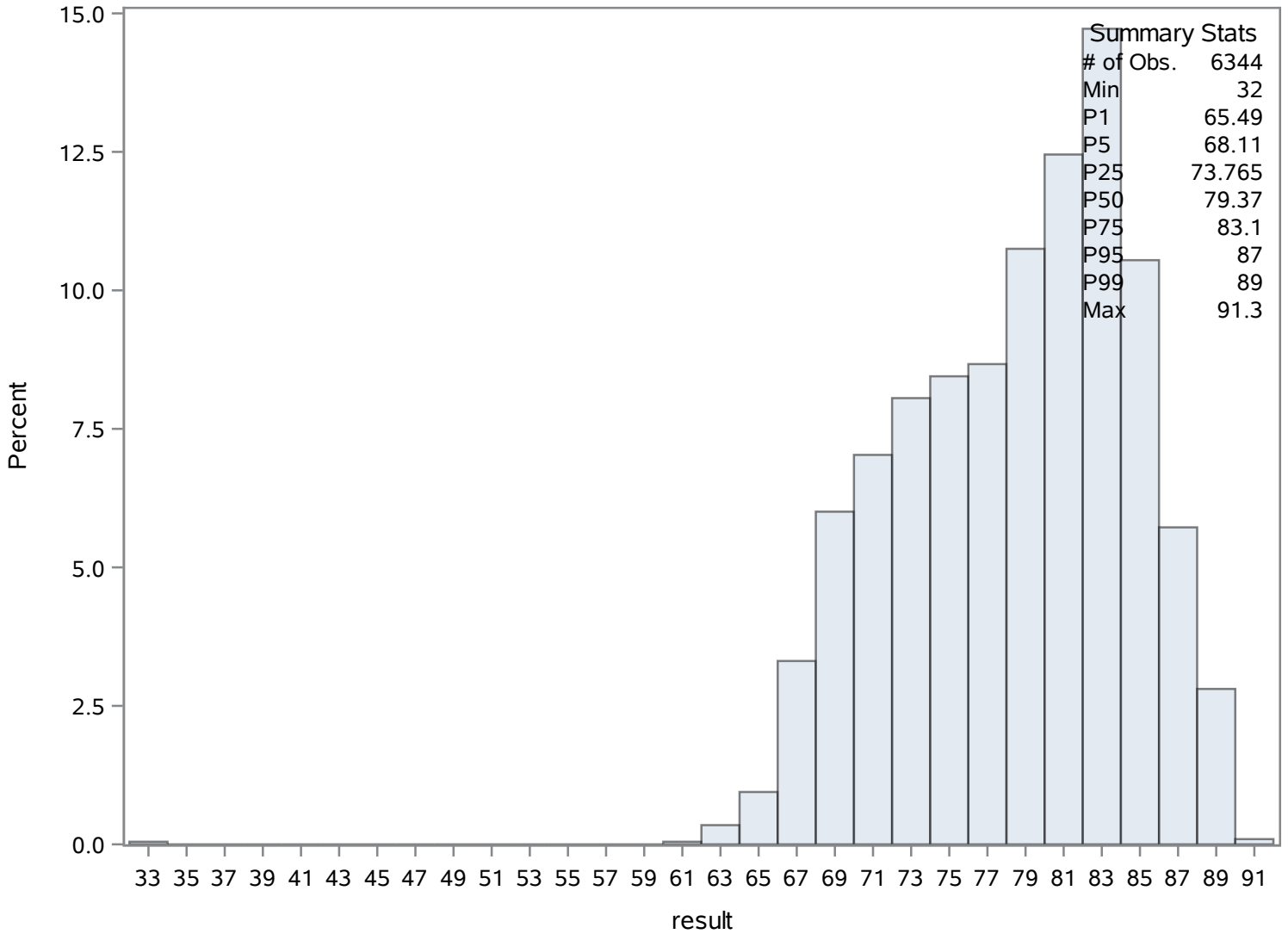
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
32.00	101985	90.0	99722
32.00	100080	90.1	98765
32.00	100079	90.3	98668
61.76	101285	90.3	98669
61.79	96210	91.3	98764

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_F

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

TURB_NTU

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	8.88242102	Sum Observations	61013.35
Std Deviation	38.9726574	Variance	1518.86803
Skewness	8.73463794	Kurtosis	103.254077
Uncorrected SS	10973531.9	Corrected SS	10431585.6
Coeff Variation	438.761655	Std Error Mean	0.47023317

Basic Statistical Measures			
Location		Variability	
Mean	8.882421	Std Deviation	38.97266
Median	1.570000	Variance	1519
Mode	0.000000	Range	897.00000
		Interquartile Range	2.43000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	18.8894	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	897.00
99%	212.60
95%	23.90
90%	7.78
75% Q3	3.14
50% Median	1.57
25% Q1	0.71
10%	0.37
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TURB_NTU

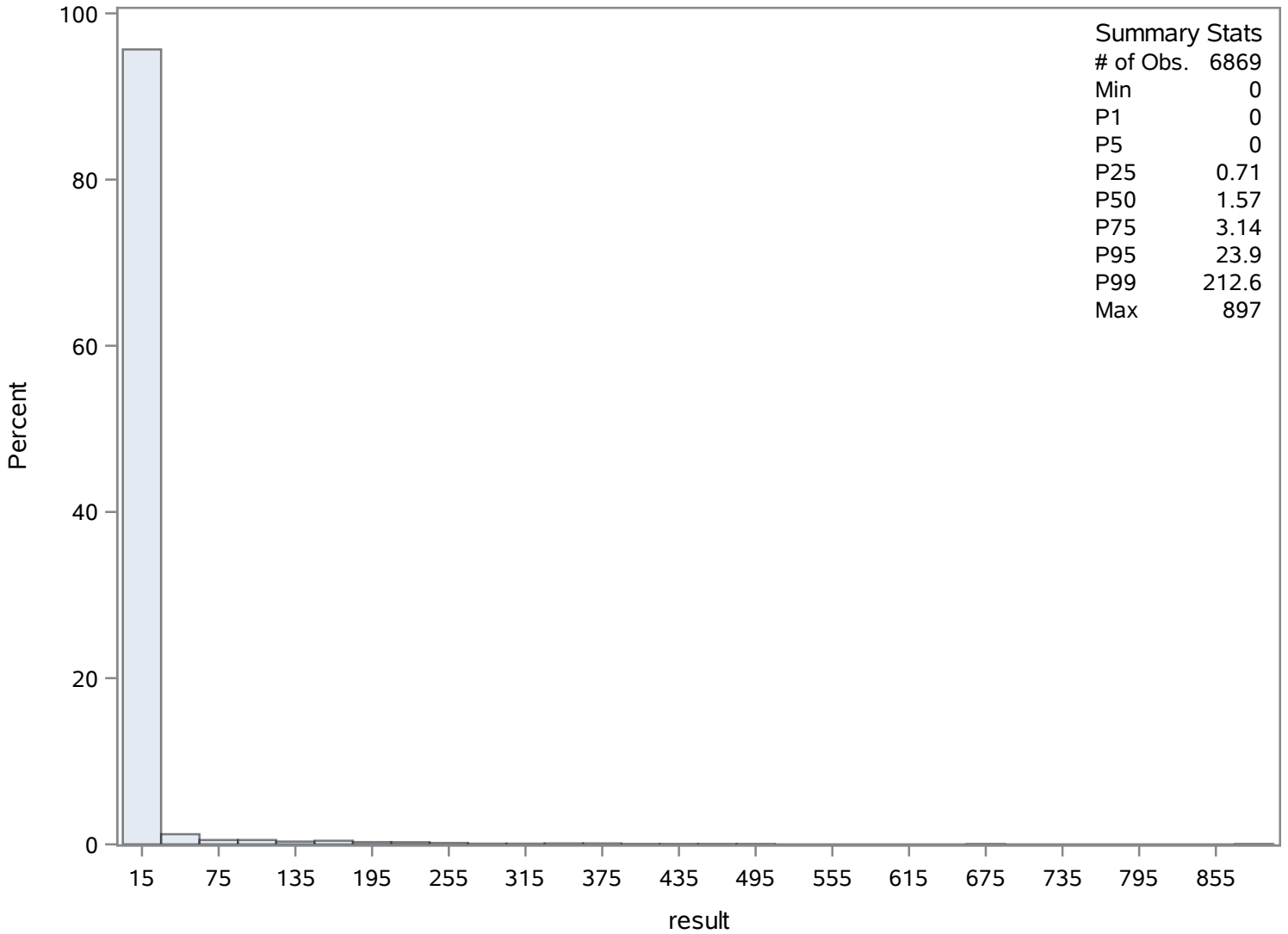
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	108854	481.1	102315
0	108853	482.4	102324
0	108852	499.6	102321
0	108851	680.3	103847
0	108850	897.0	104136

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TURB_NTU

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

TURB_RAW

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	0.24309361	Sum Observations	1669.81
Std Deviation	0.94493369	Variance	0.89289967
Skewness	7.78460002	Kurtosis	73.3802058
Uncorrected SS	6538.3551	Corrected SS	6132.43496
Coeff Variation	388.711859	Std Error Mean	0.01140131

Basic Statistical Measures			
Location		Variability	
Mean	0.243094	Std Deviation	0.94493
Median	0.060000	Variance	0.89290
Mode	0.020000	Range	16.72000
		Interquartile Range	0.08000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	21.32156	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	16.72
99%	5.36
95%	0.69
90%	0.24
75% Q3	0.11
50% Median	0.06
25% Q1	0.03
10%	0.01
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TURB_RAW

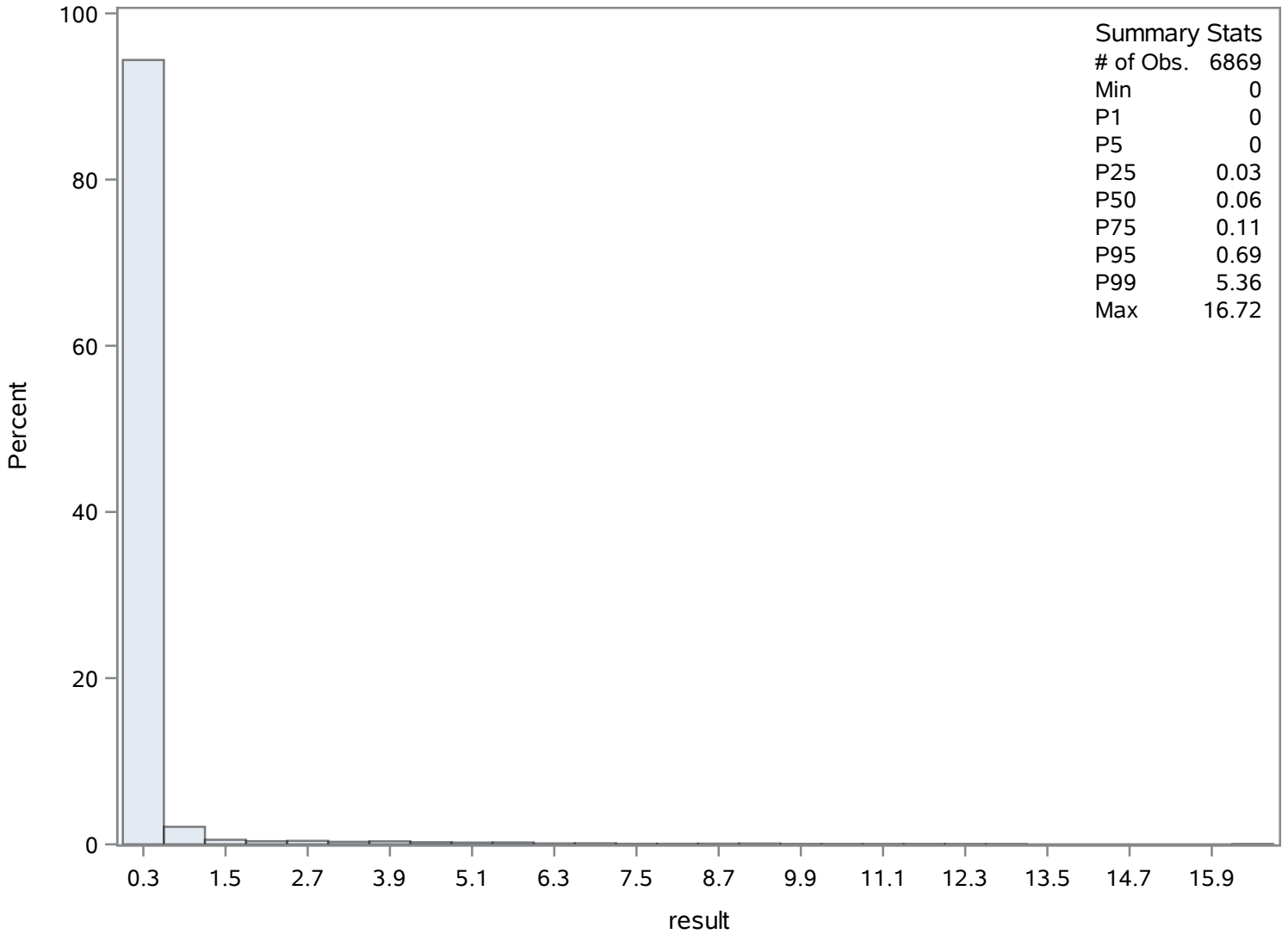
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	115723	11.91	109213
0	115722	11.94	109222
0	115721	12.36	109219
0	115720	12.69	111702
0	115719	16.72	112003

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TURB_RAW

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Chass Near USGS Gage

WIPER_POS_V

The UNIVARIATE Procedure
Variable: result

Moments			
N	6869	Sum Weights	6869
Mean	1.11671568	Sum Observations	7670.72
Std Deviation	0.29458823	Variance	0.08678222
Skewness	-3.5035944	Kurtosis	10.3659856
Uncorrected SS	9162.0336	Corrected SS	596.020306
Coeff Variation	26.3798773	Std Error Mean	0.00355442

Basic Statistical Measures			
Location		Variability	
Mean	1.116716	Std Deviation	0.29459
Median	1.200000	Variance	0.08678
Mode	1.200000	Range	1.31000
		Interquartile Range	0.01000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	314.1767	Pr > t 	<.0001
Sign	M	3212.5	Pr >= M 	<.0001
Signed Rank	S	10321763	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.31
99%	1.21
95%	1.21
90%	1.21
75% Q3	1.20
50% Median	1.20
25% Q1	1.19
10%	1.12
5%	0.00
1%	0.00
0% Min	0.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
WIPER_POS_V

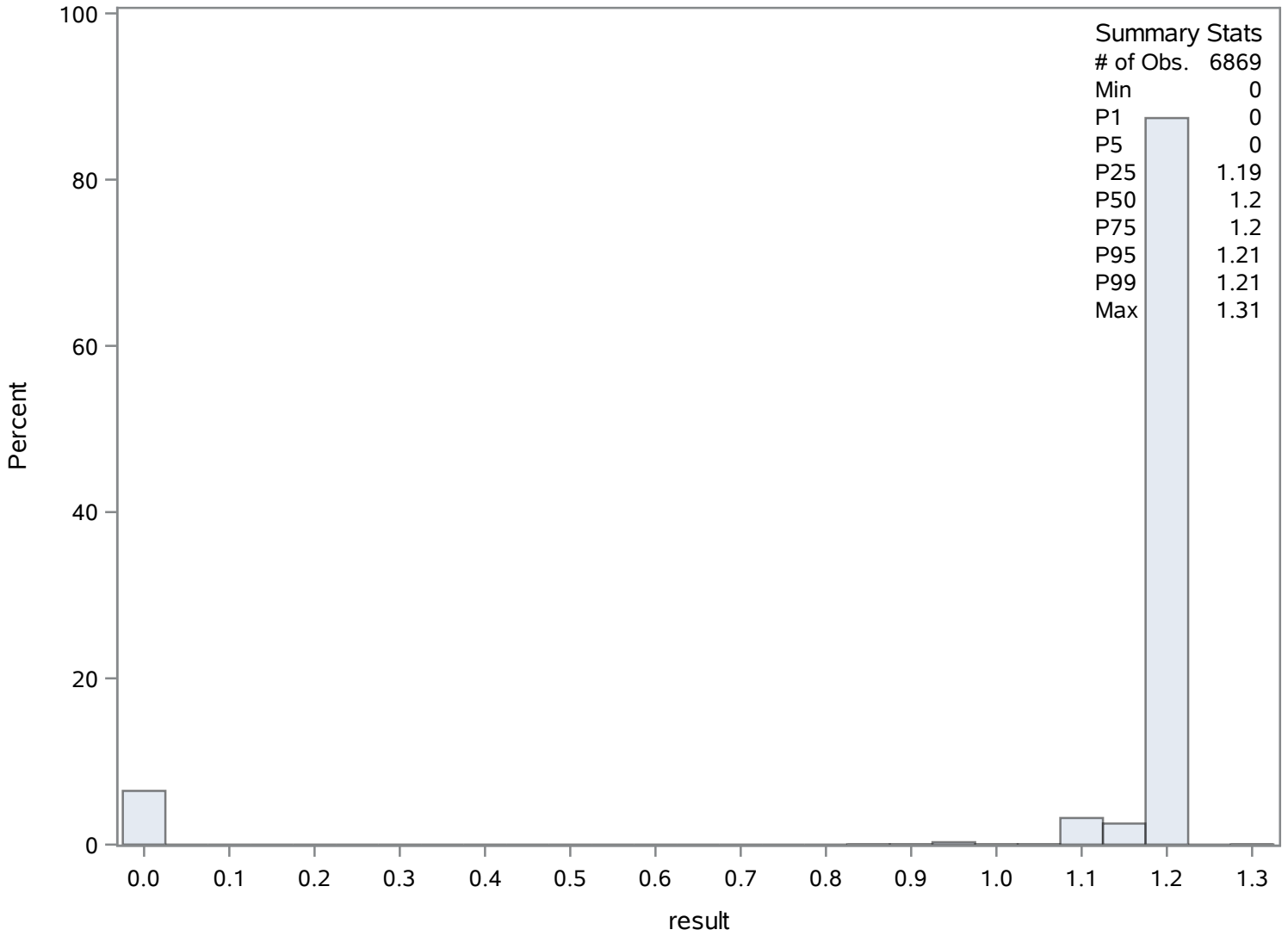
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	122592	1.21	122139
0	122591	1.21	122140
0	122590	1.22	116041
0	122589	1.22	116230
0	122588	1.31	116229

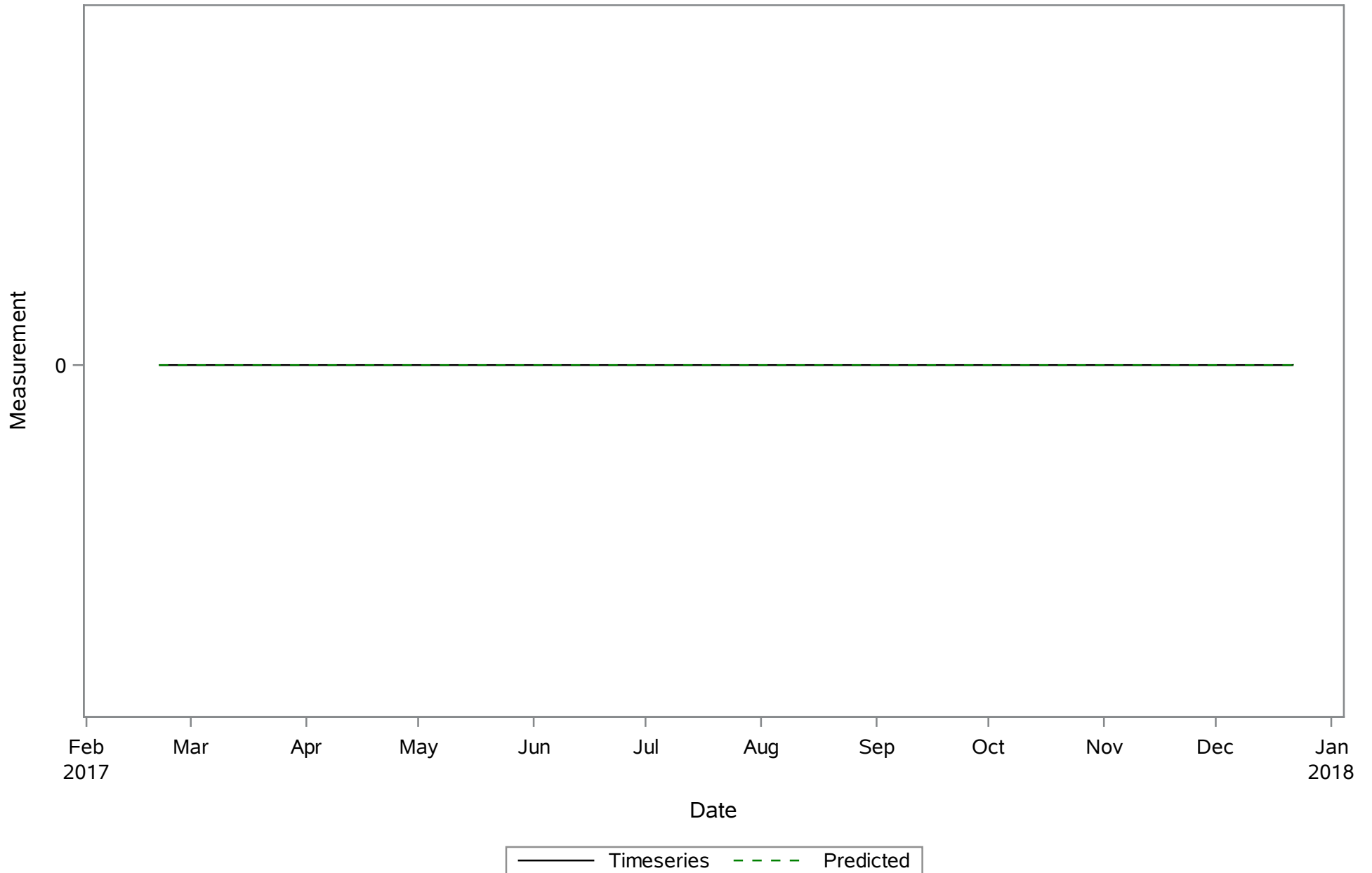
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
WIPER_POS_V

The UNIVARIATE Procedure

Distribution of result

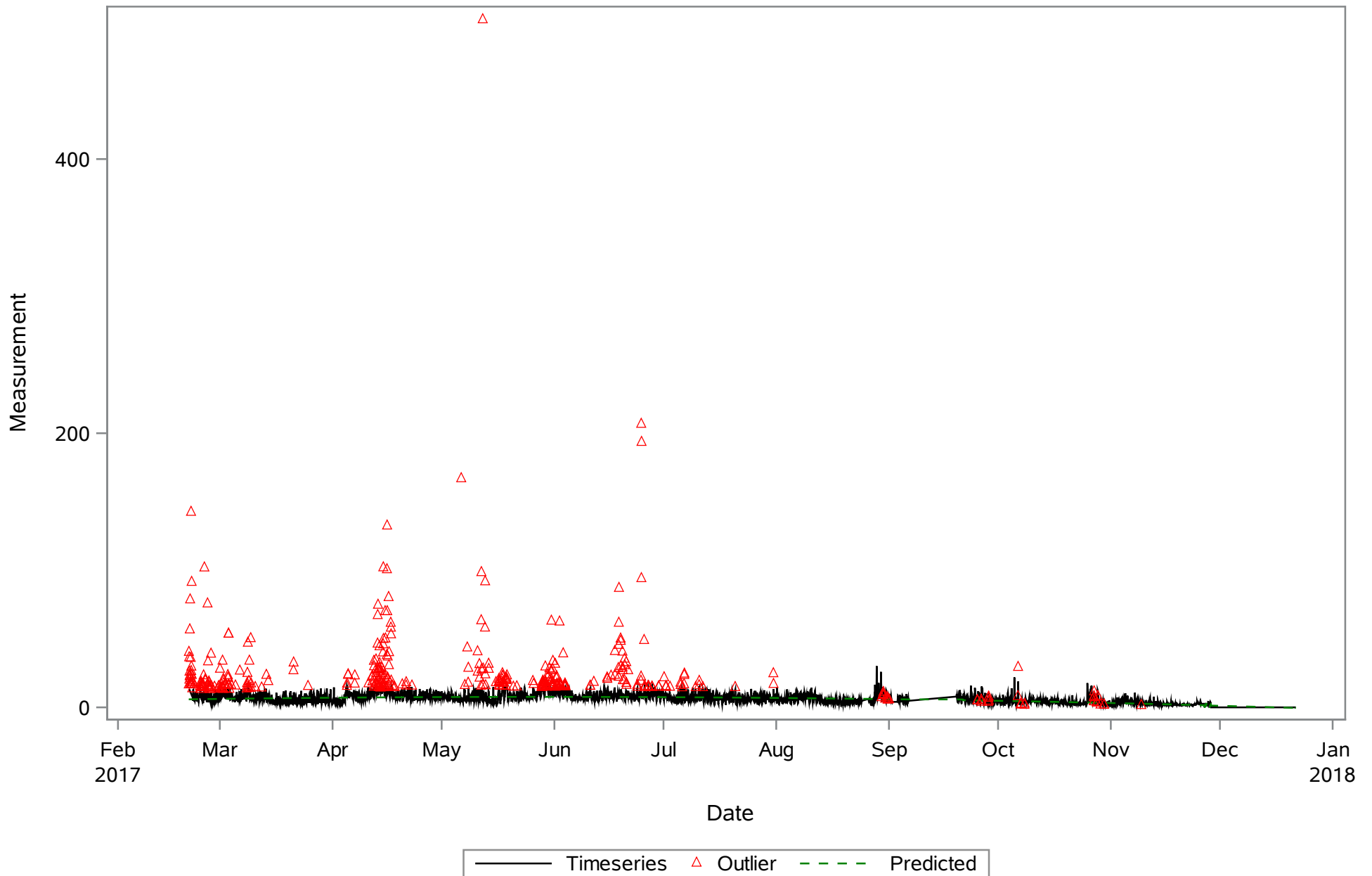


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
BATTV_EXO



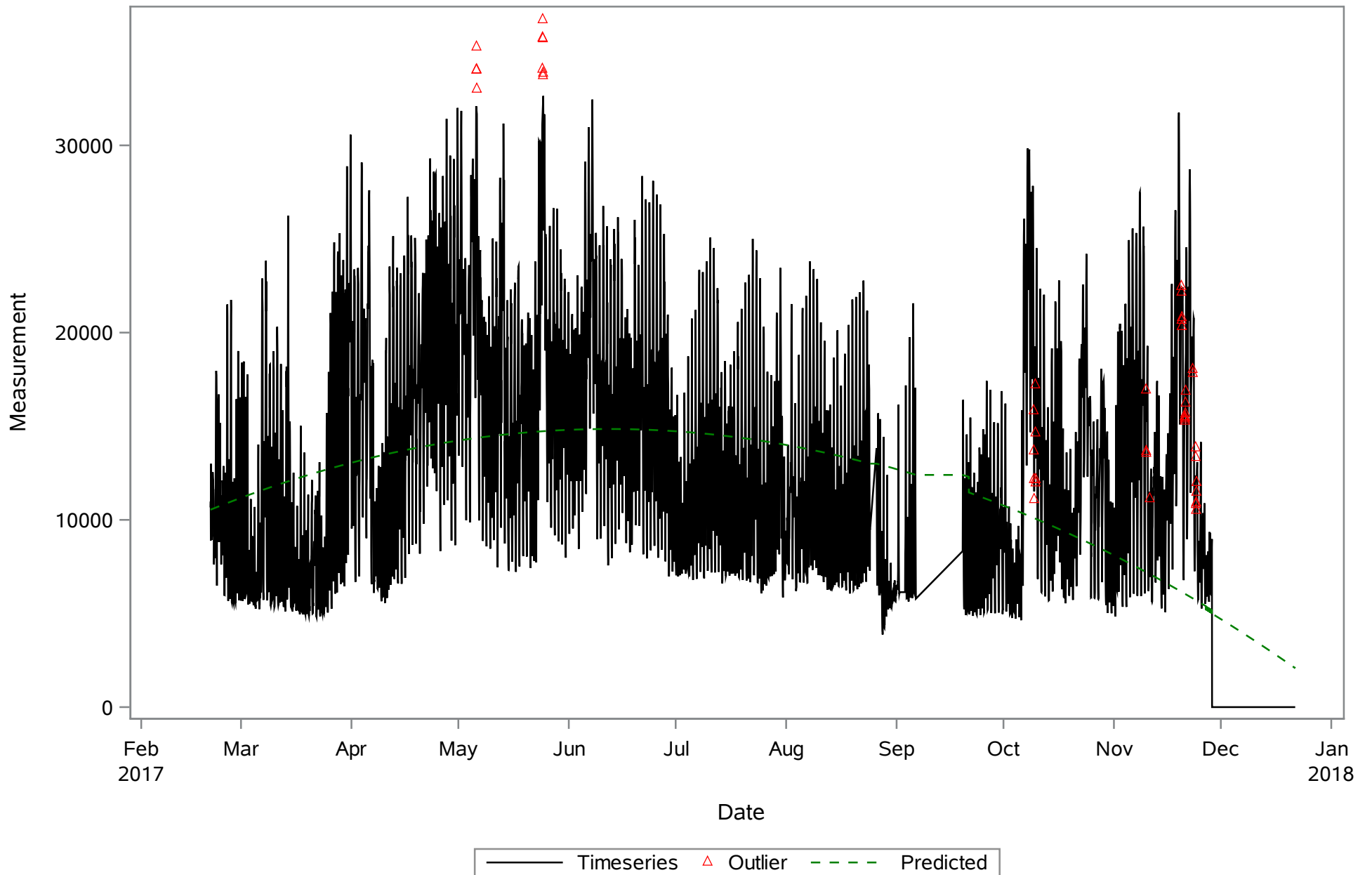
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near USGS Gage
CHLA_UGL



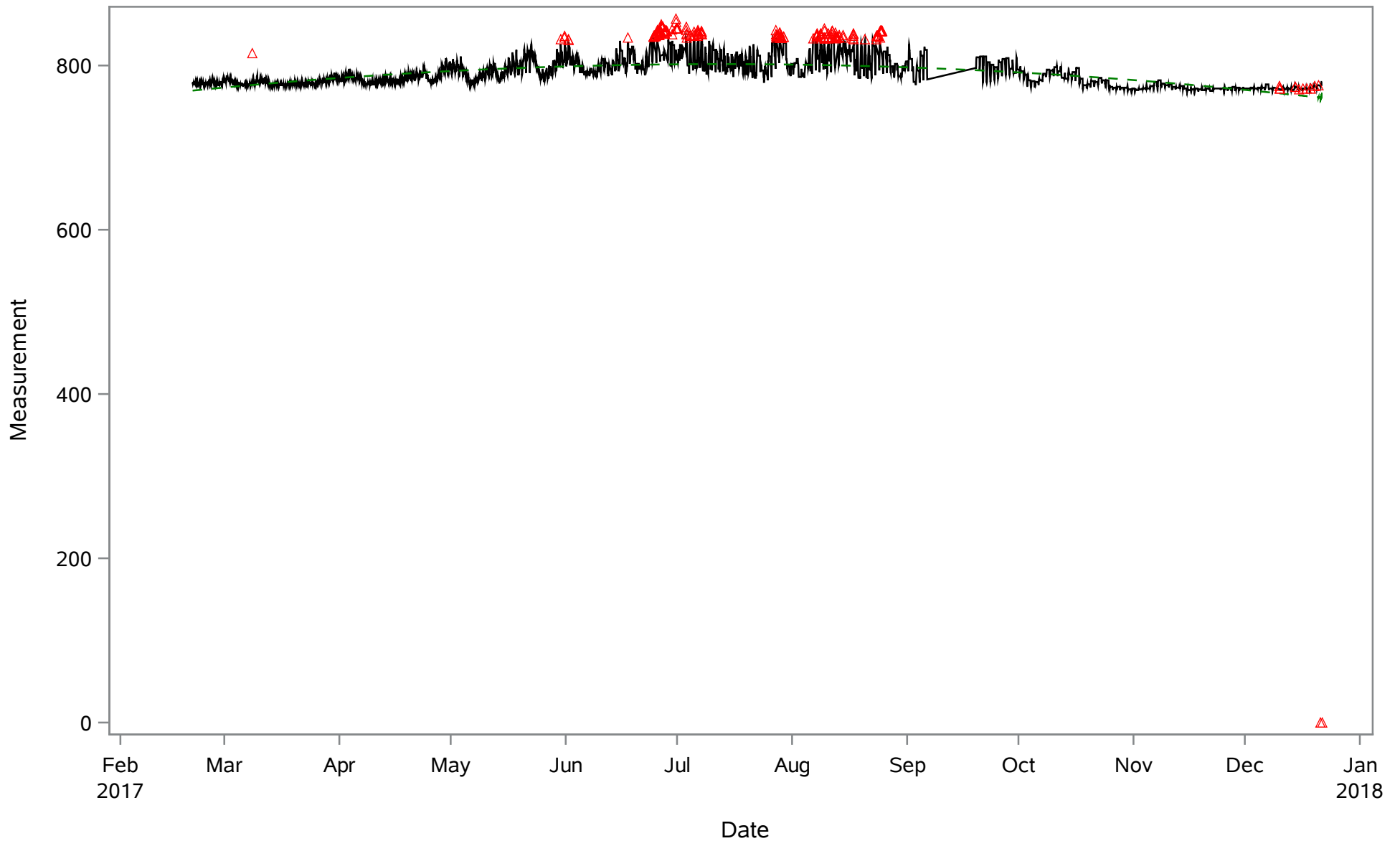
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near USGS Gage
COND



Chassahowitzka River - Continuous Recorder

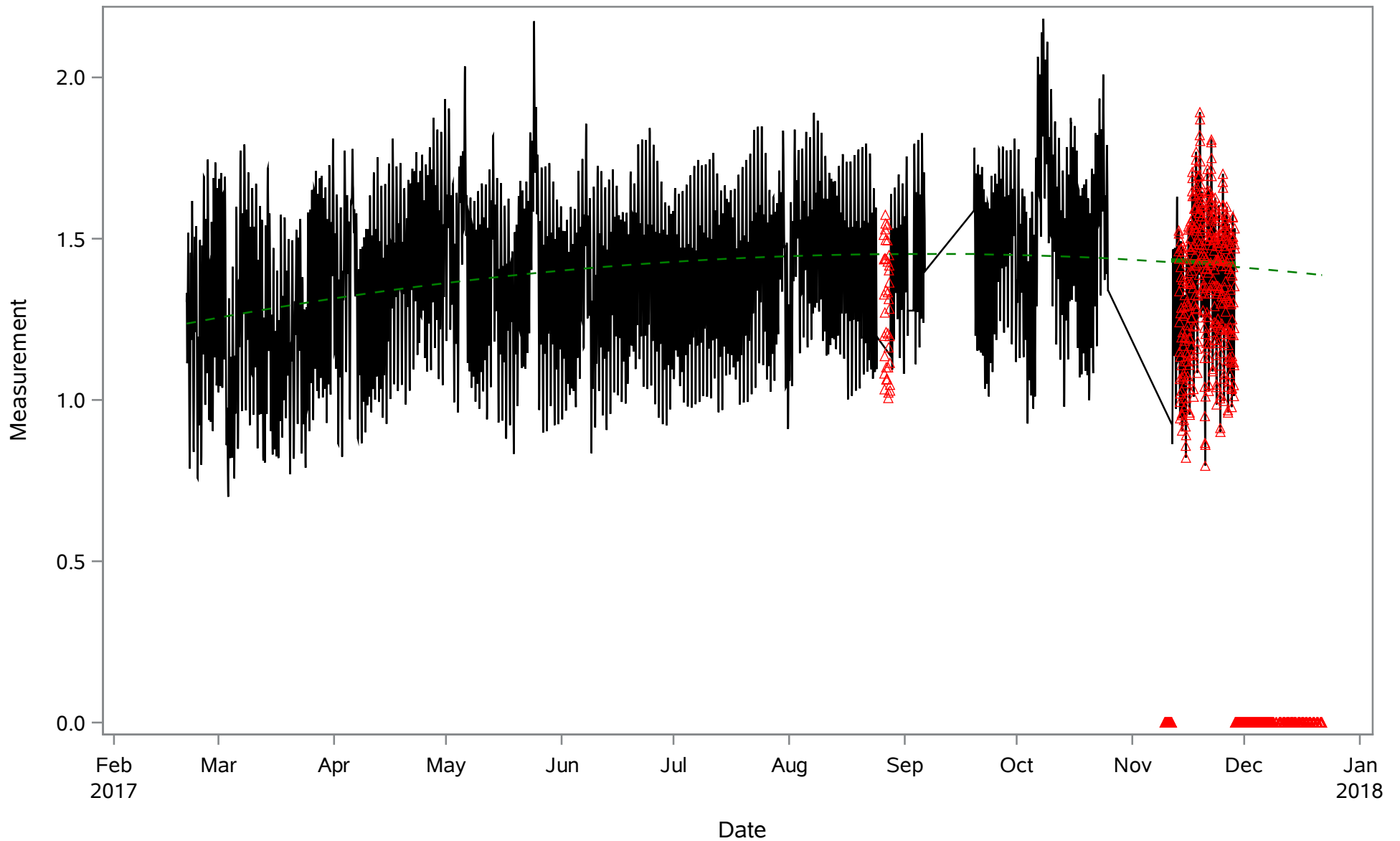
Source: Continuous Recorder
Chass Near USGS Gage
DARK_SPECTRUM_AVG



— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

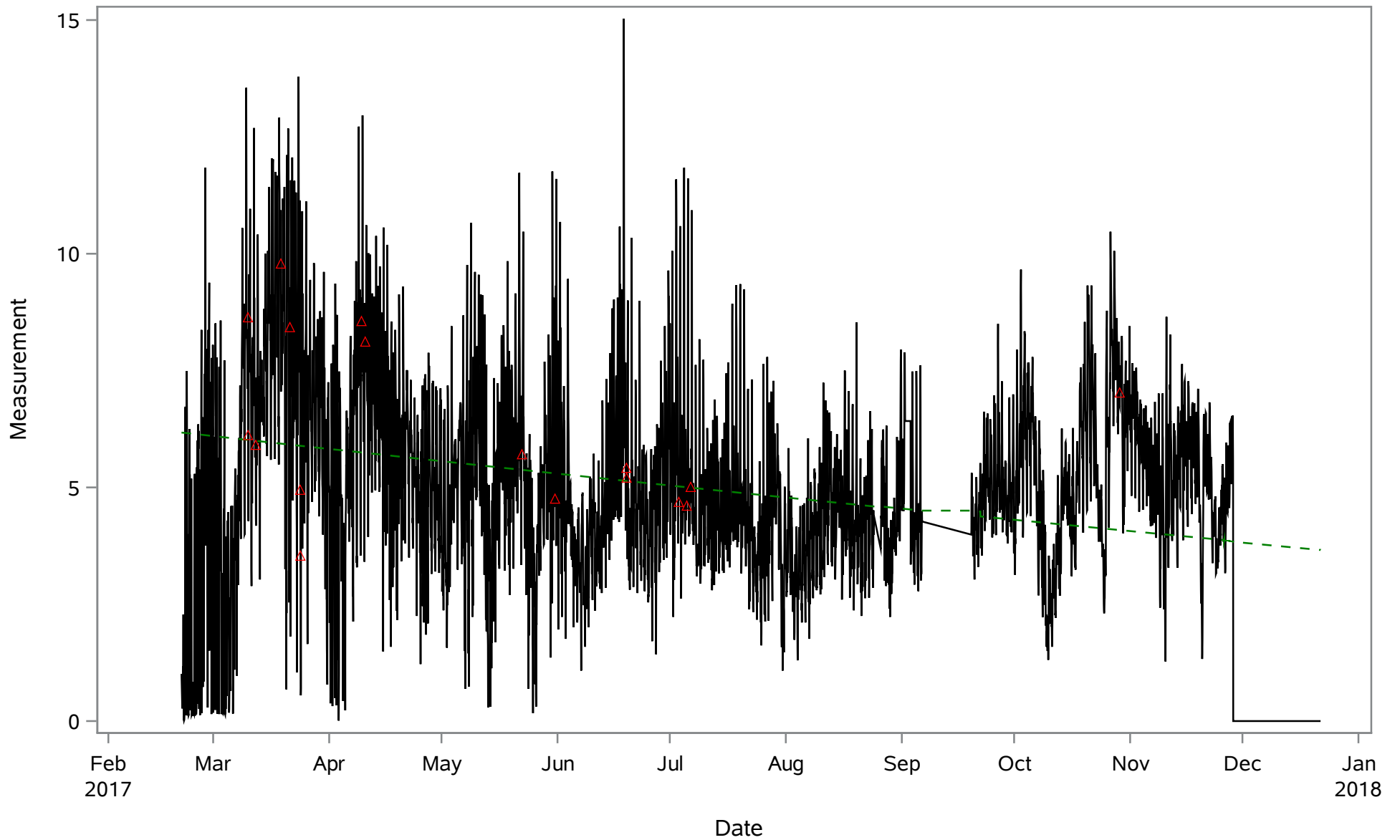
Source: Continuous Recorder
Chass Near USGS Gage
DEPTH_M



— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

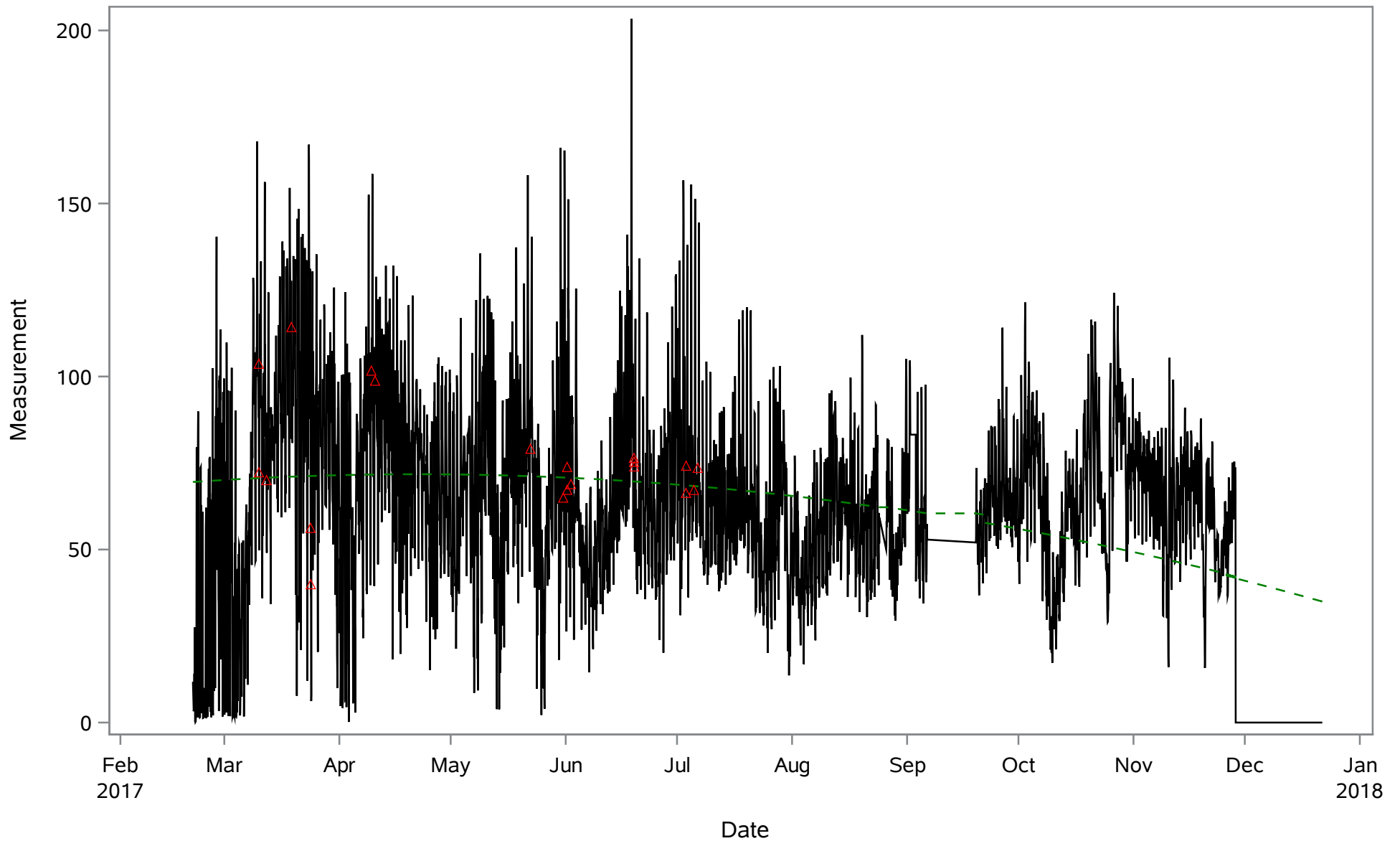
Source: Continuous Recorder
Chass Near USGS Gage
DO_MGL



— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

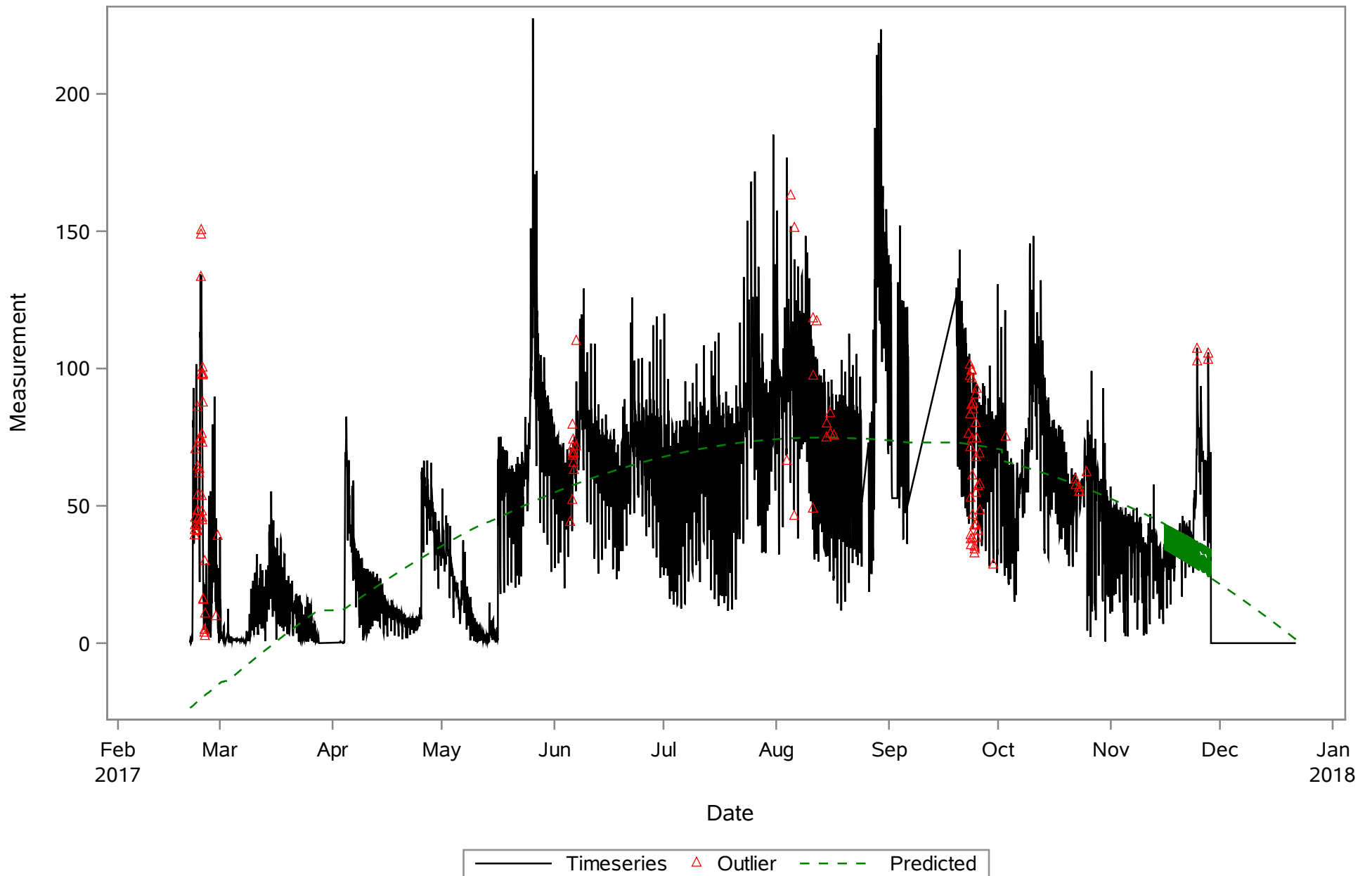
Source: Continuous Recorder
Chass Near USGS Gage
DO_PCT



— Timeseries △ Outlier - - - Predicted

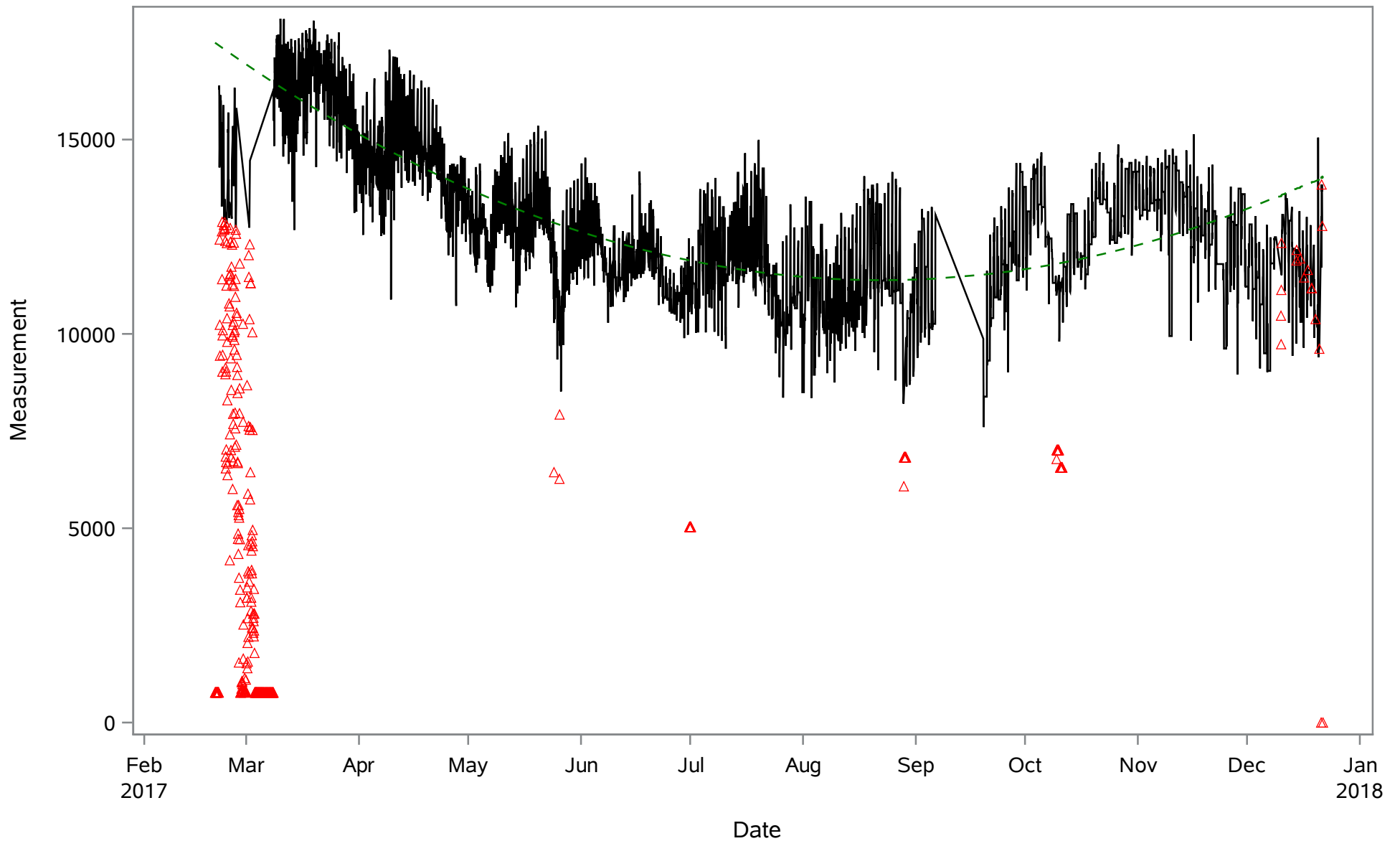
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near USGS Gage
FDOM_QSU



Chassahowitzka River - Continuous Recorder

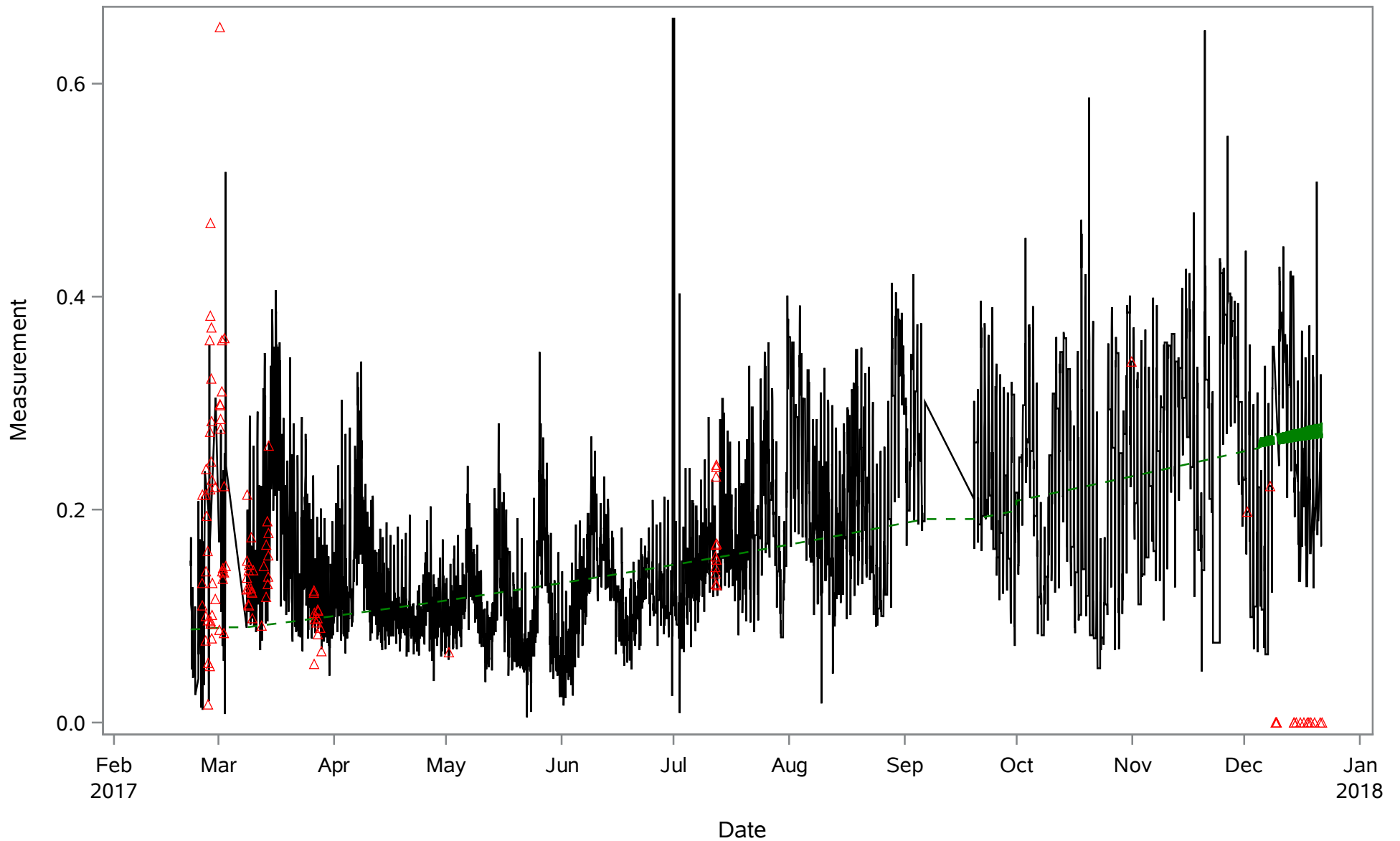
Source: Continuous Recorder
Chass Near USGS Gage
LIGHT_SPECTRUM_AVG



— Timeseries △ Outlier - - - Predicted

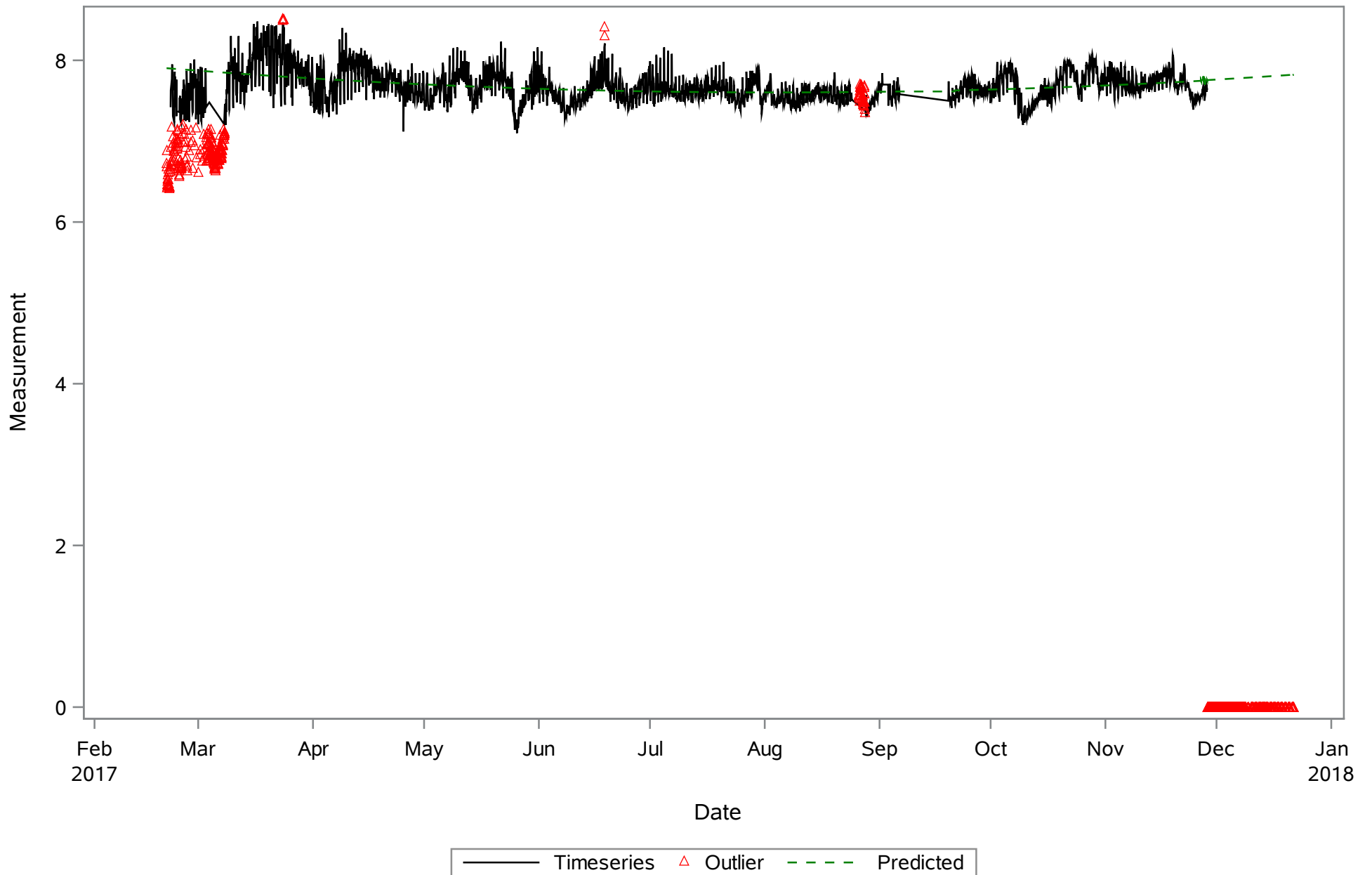
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near USGS Gage
NITRATE_MGL

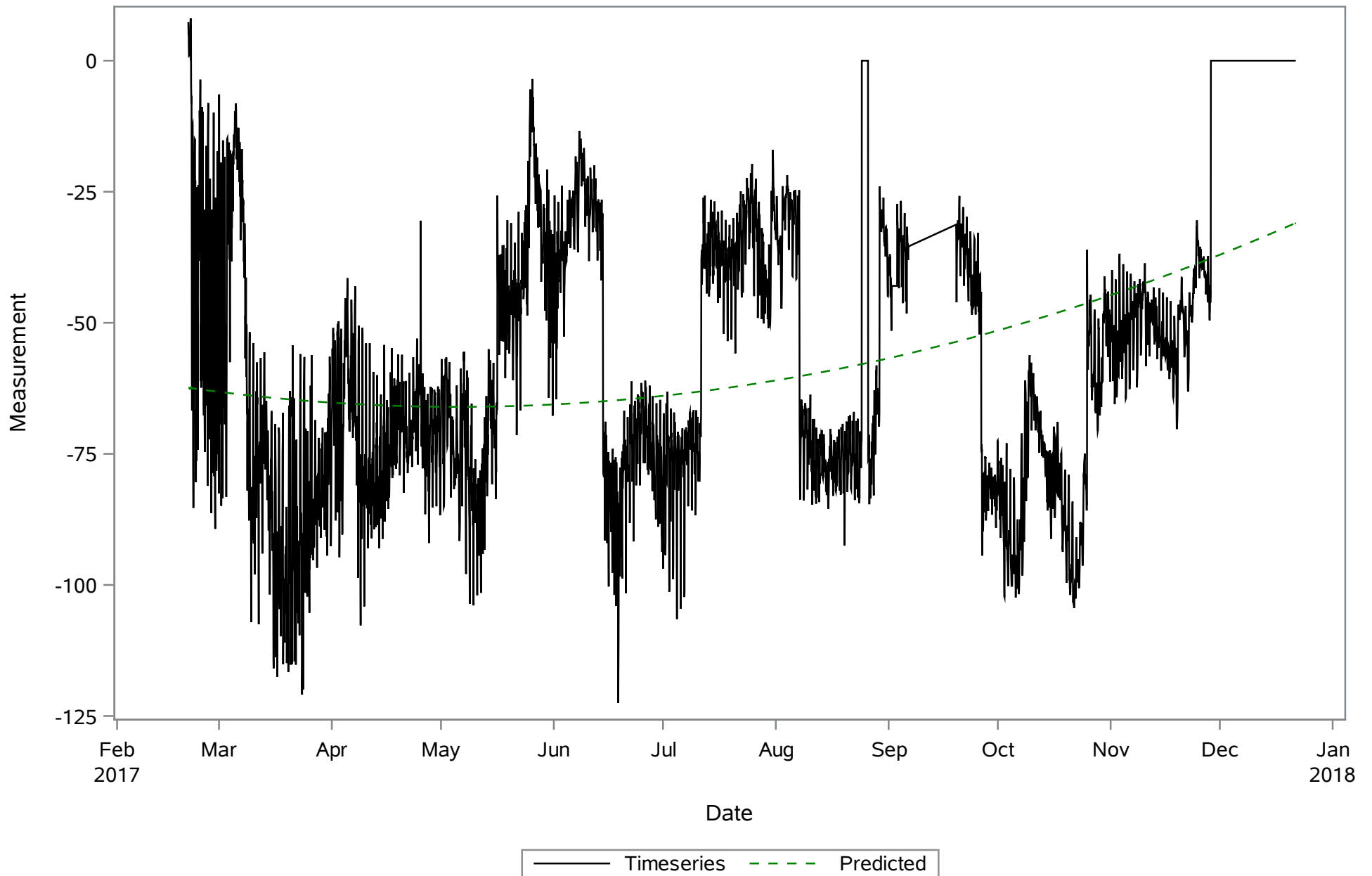


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
PH

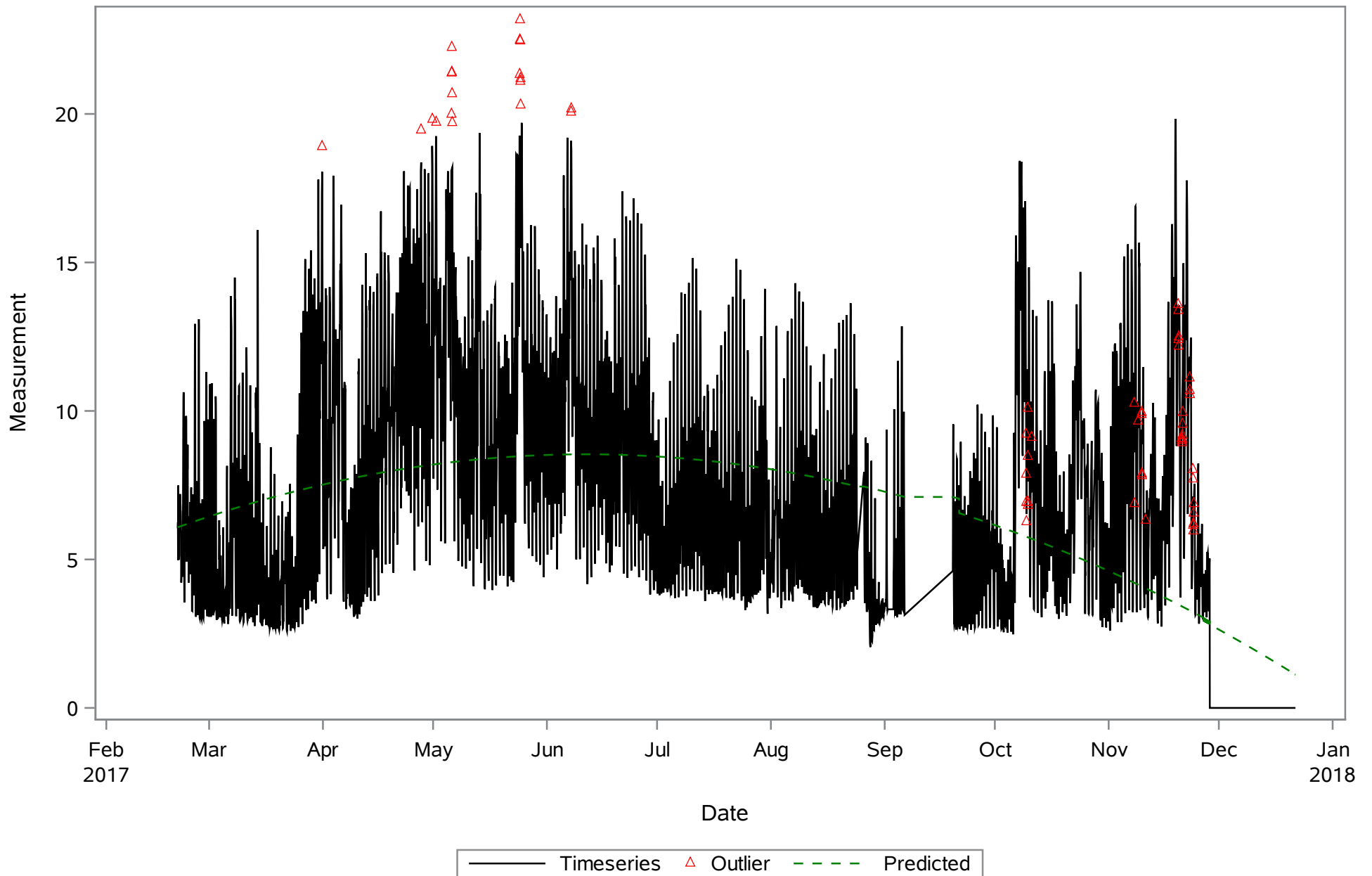


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
PH_mV

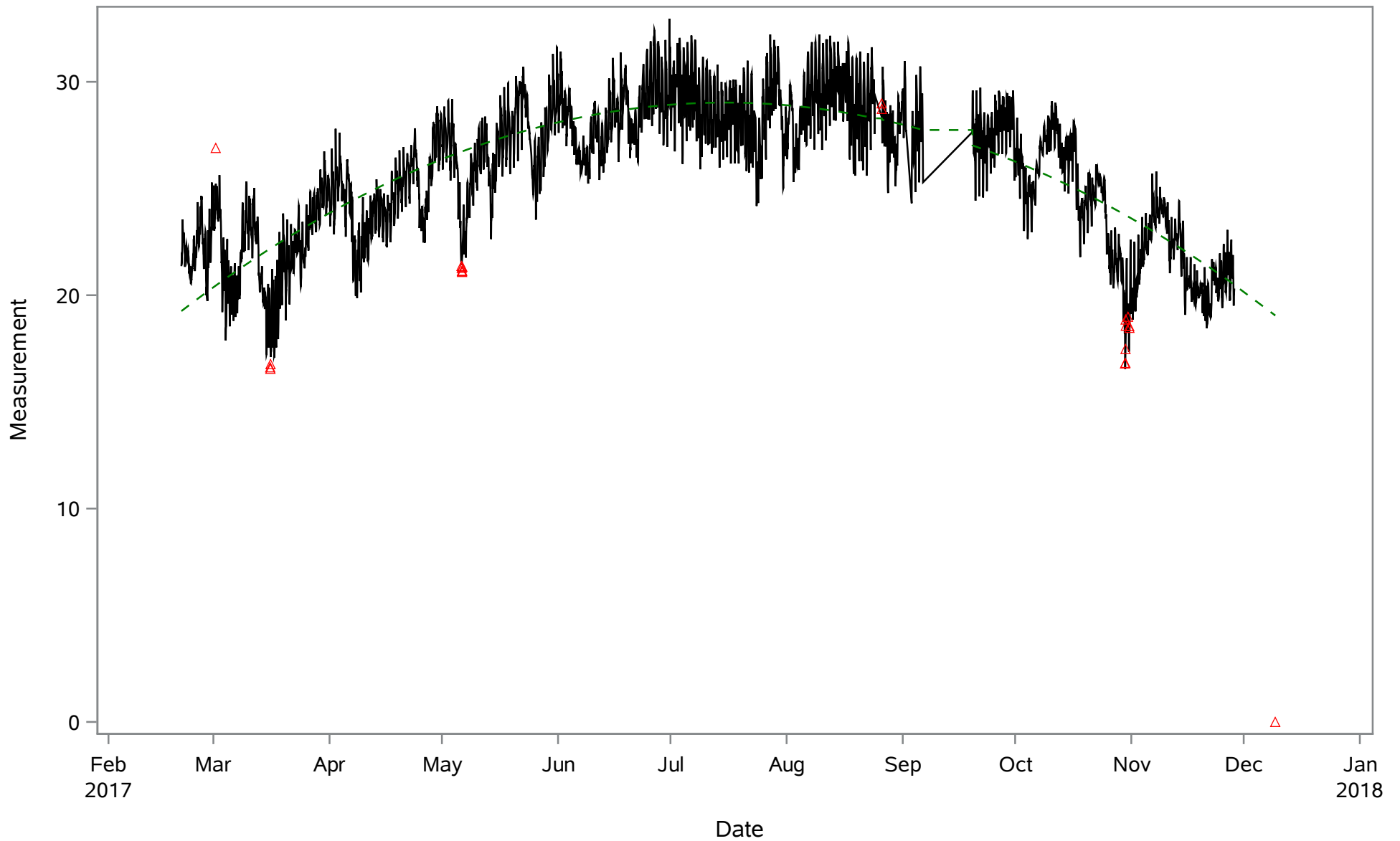


Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near USGS Gage
SAL_PPT

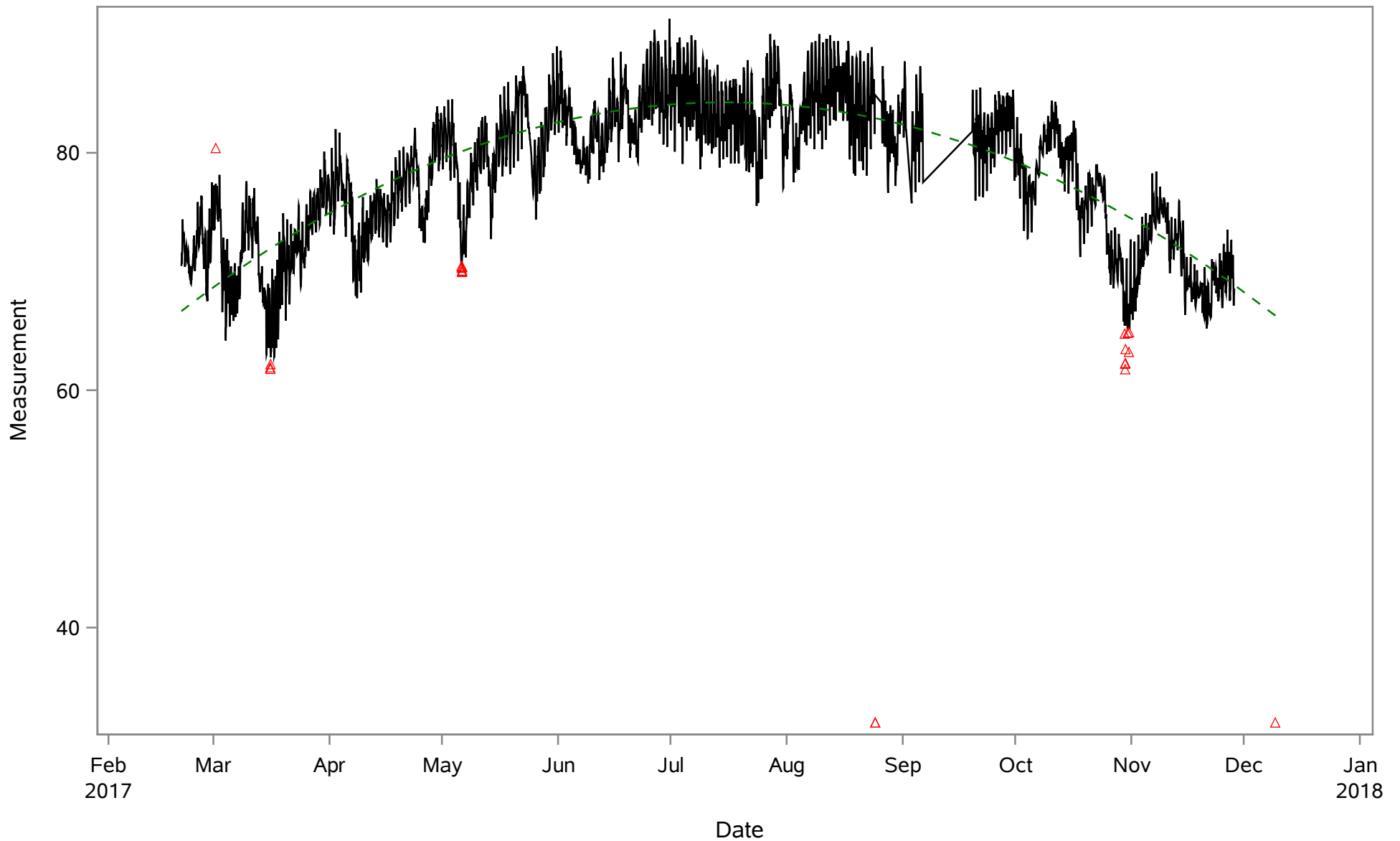


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_C



— Timeseries △ Outlier - - - Predicted

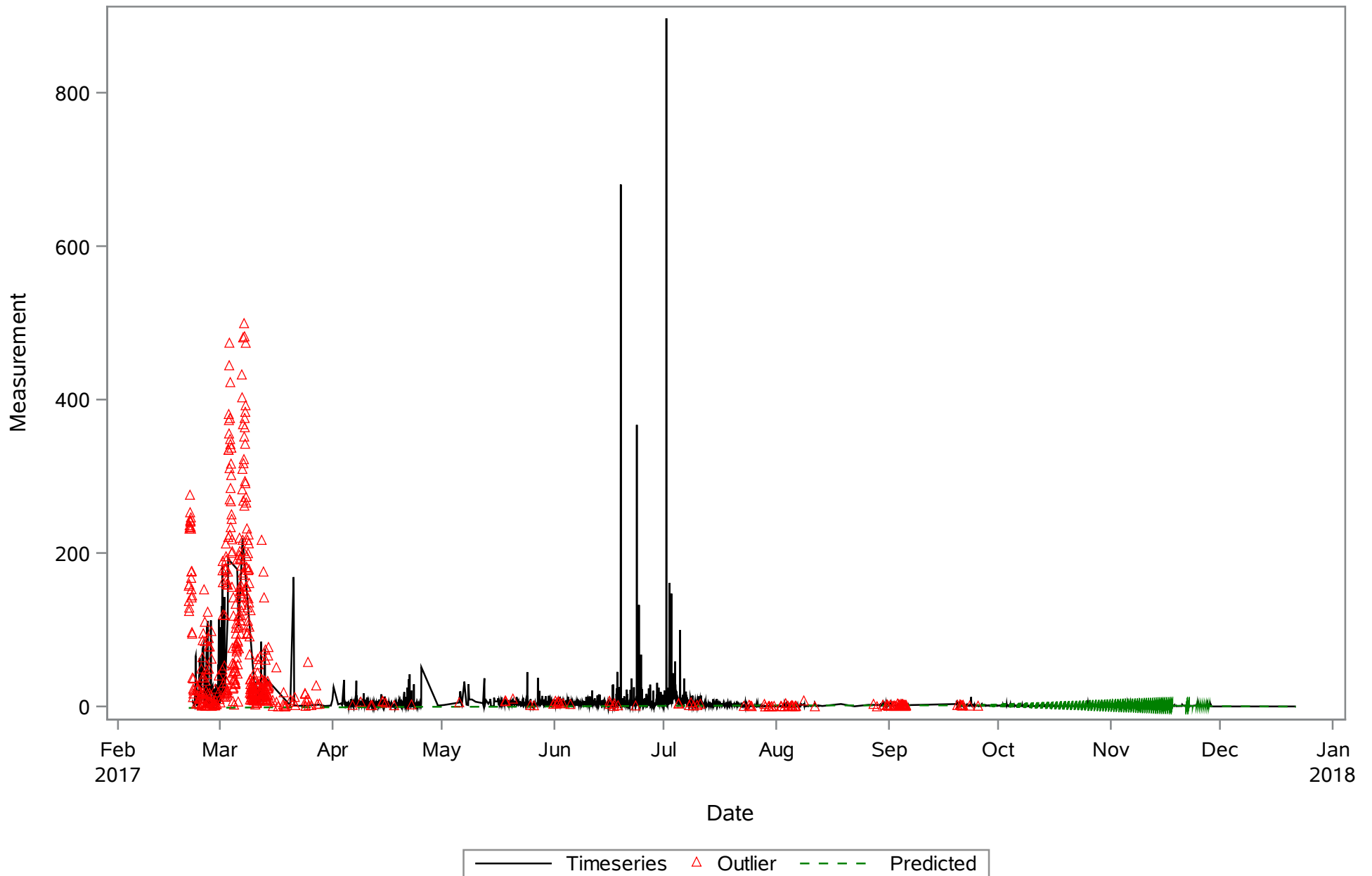
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_F



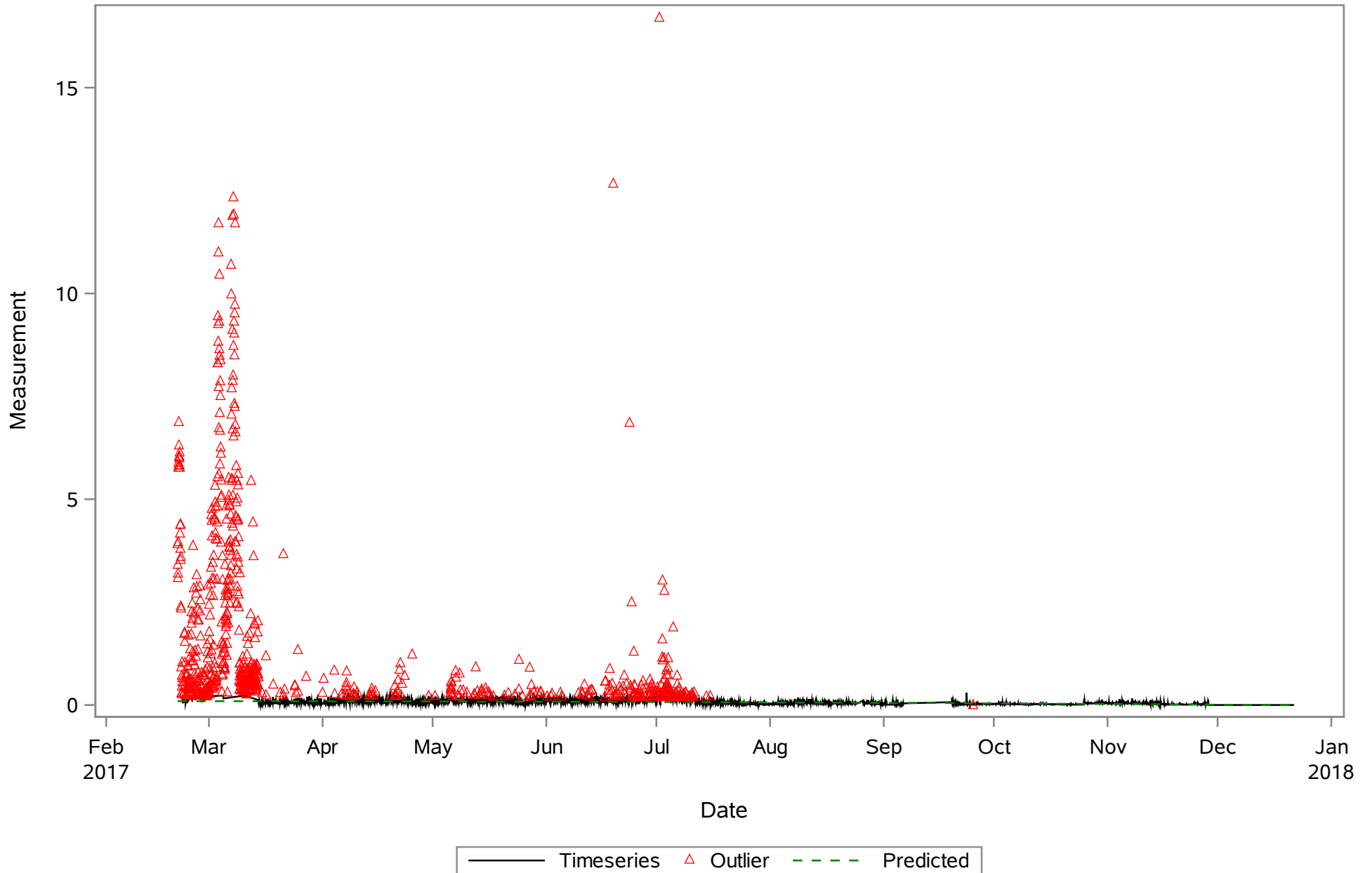
— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near USGS Gage
TURB_NTU

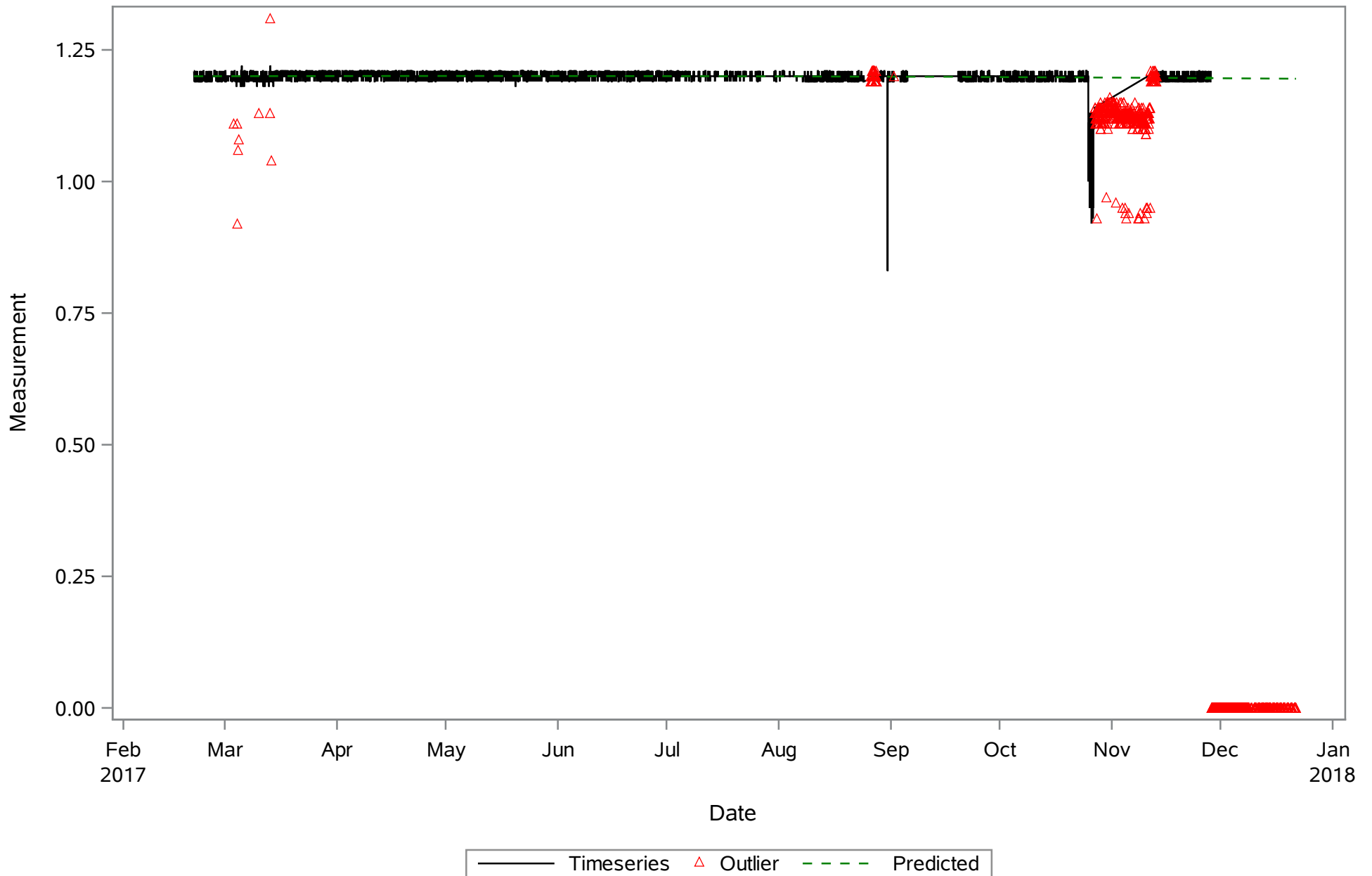


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TURB_RAW

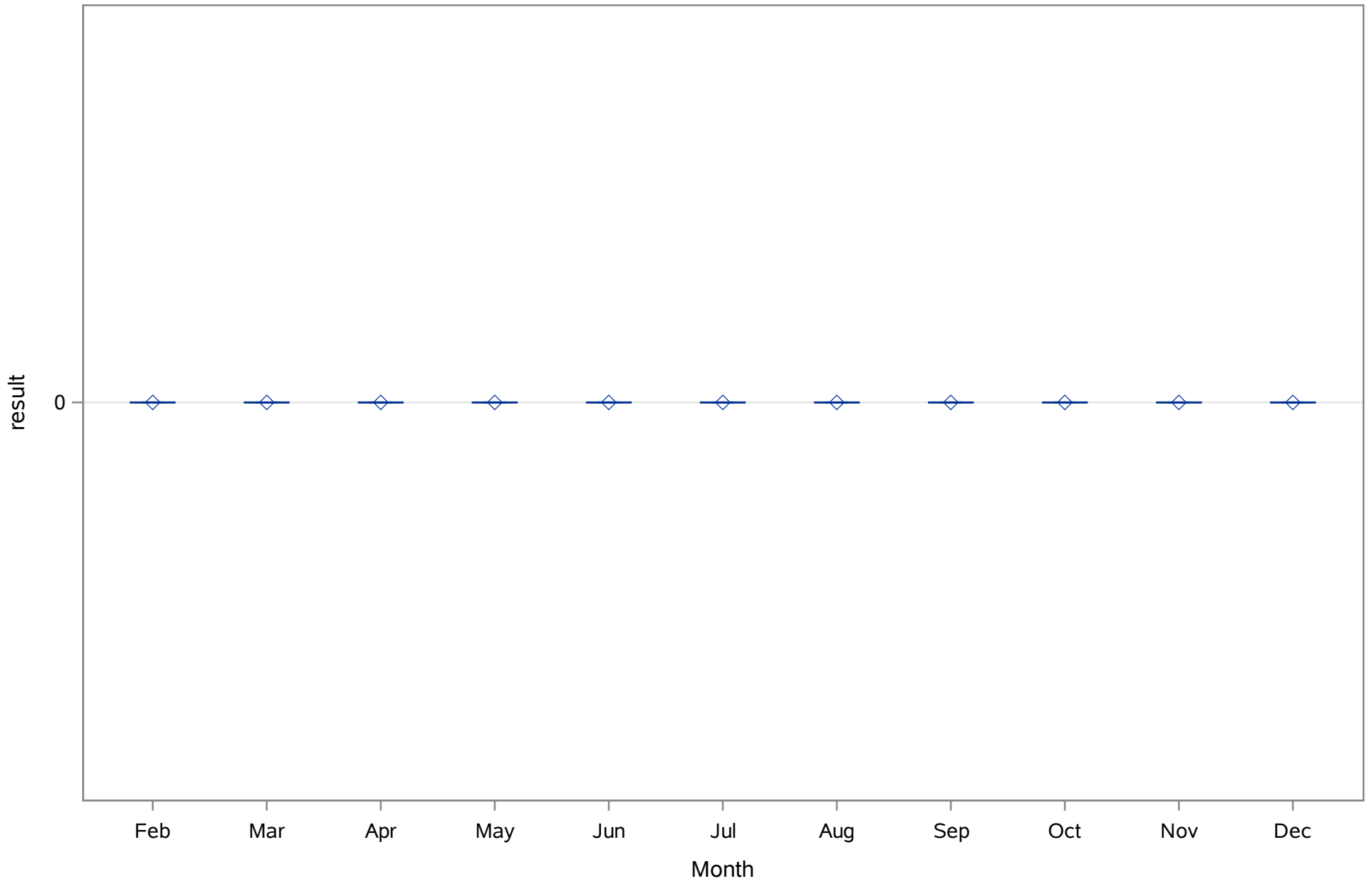


Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder
Chass Near USGS Gage
WIPER_POS_V

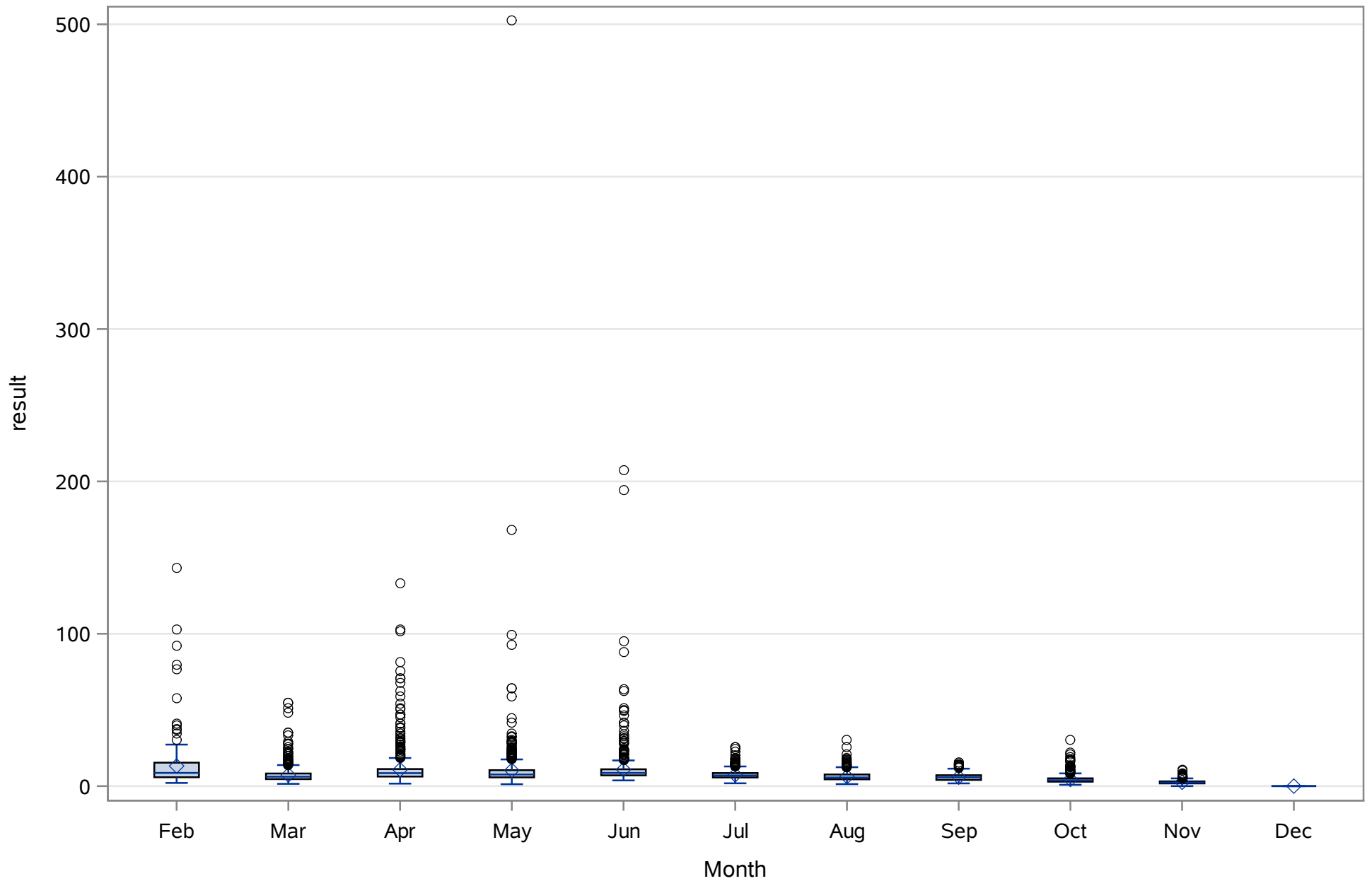


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
BATTV_EXO

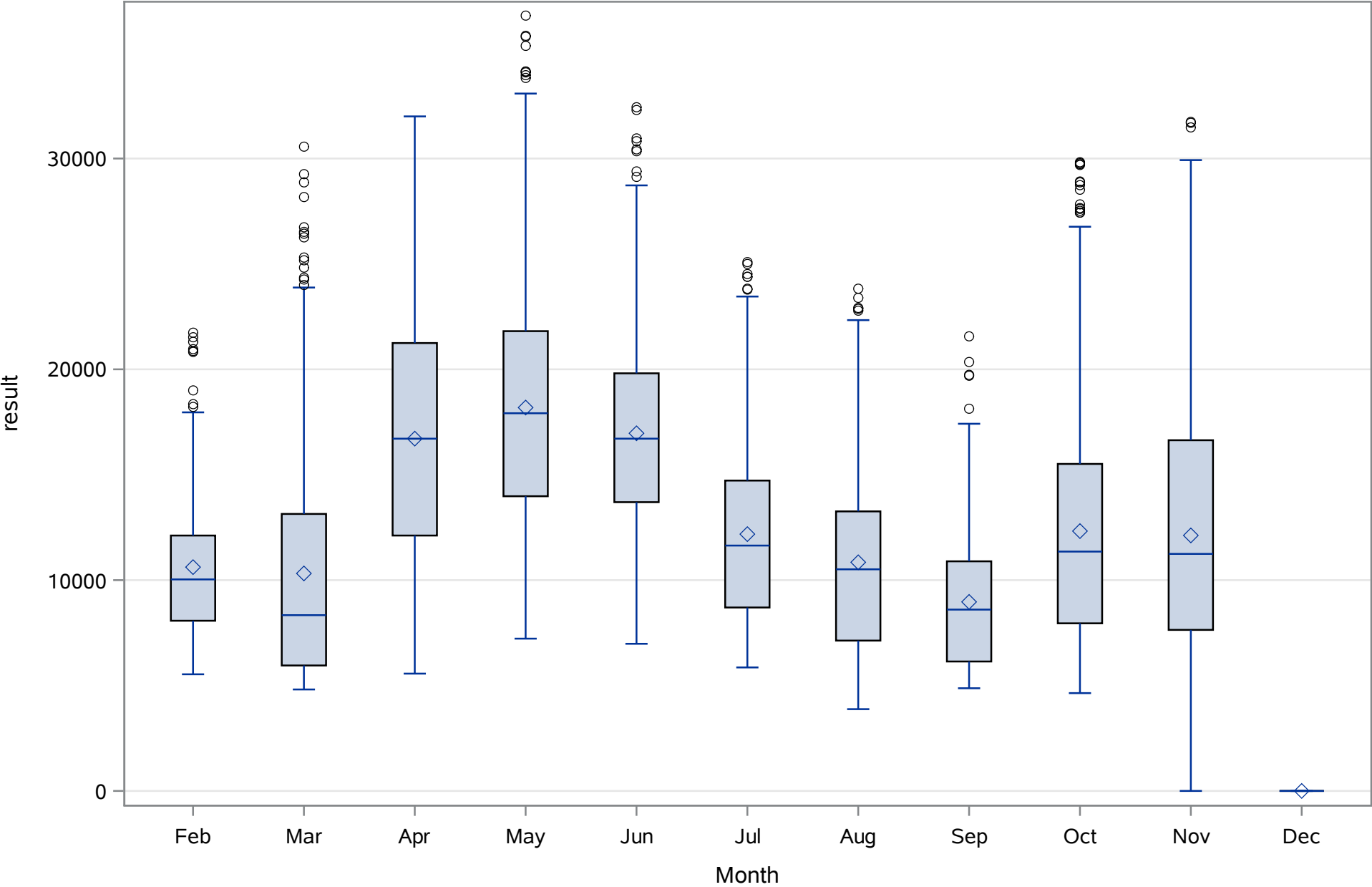


Chassahowitzka River - Continuous Recorder

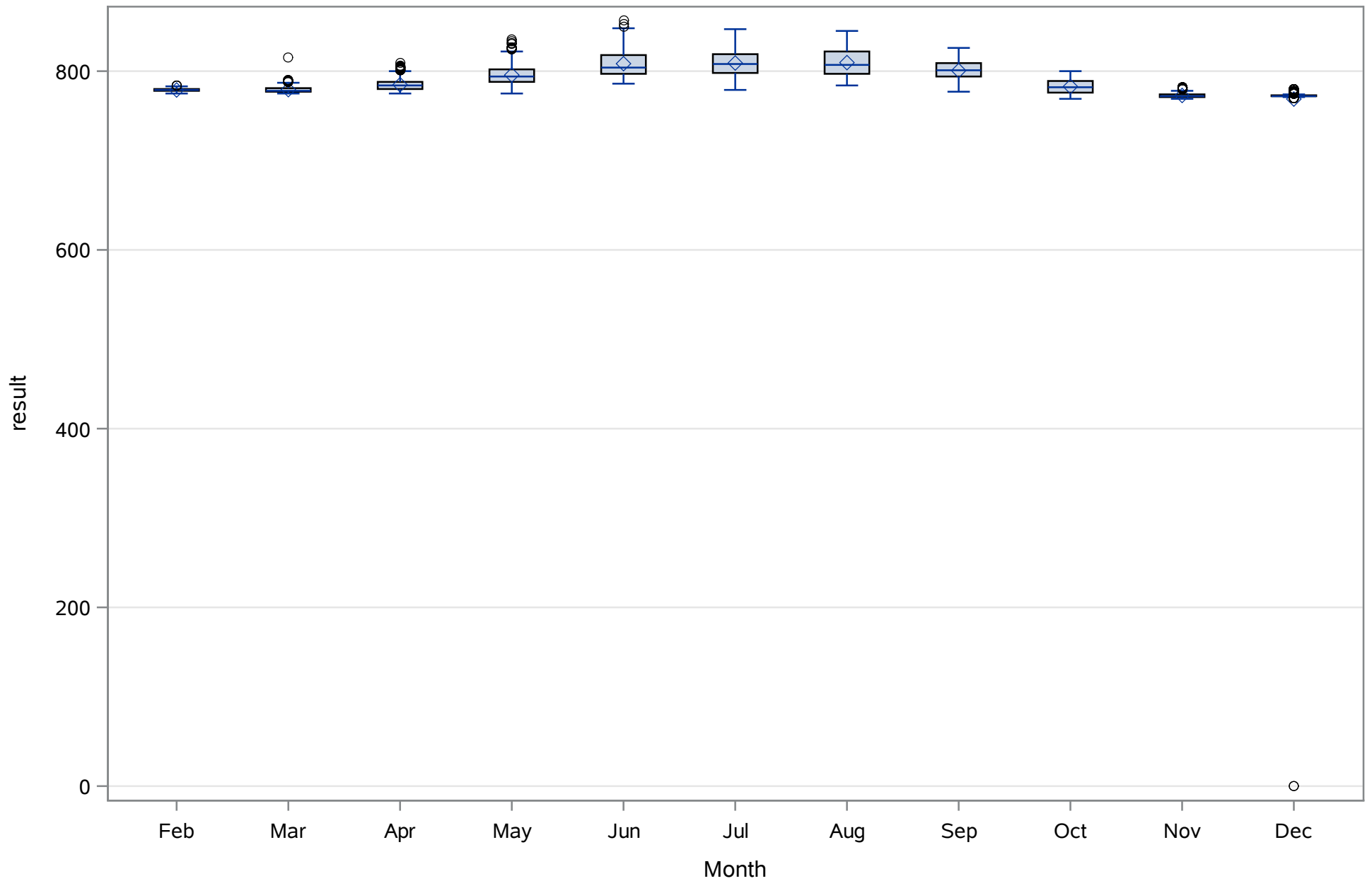
Source: Continuous Recorder
Chass Near USGS Gage
CHLA_UGL



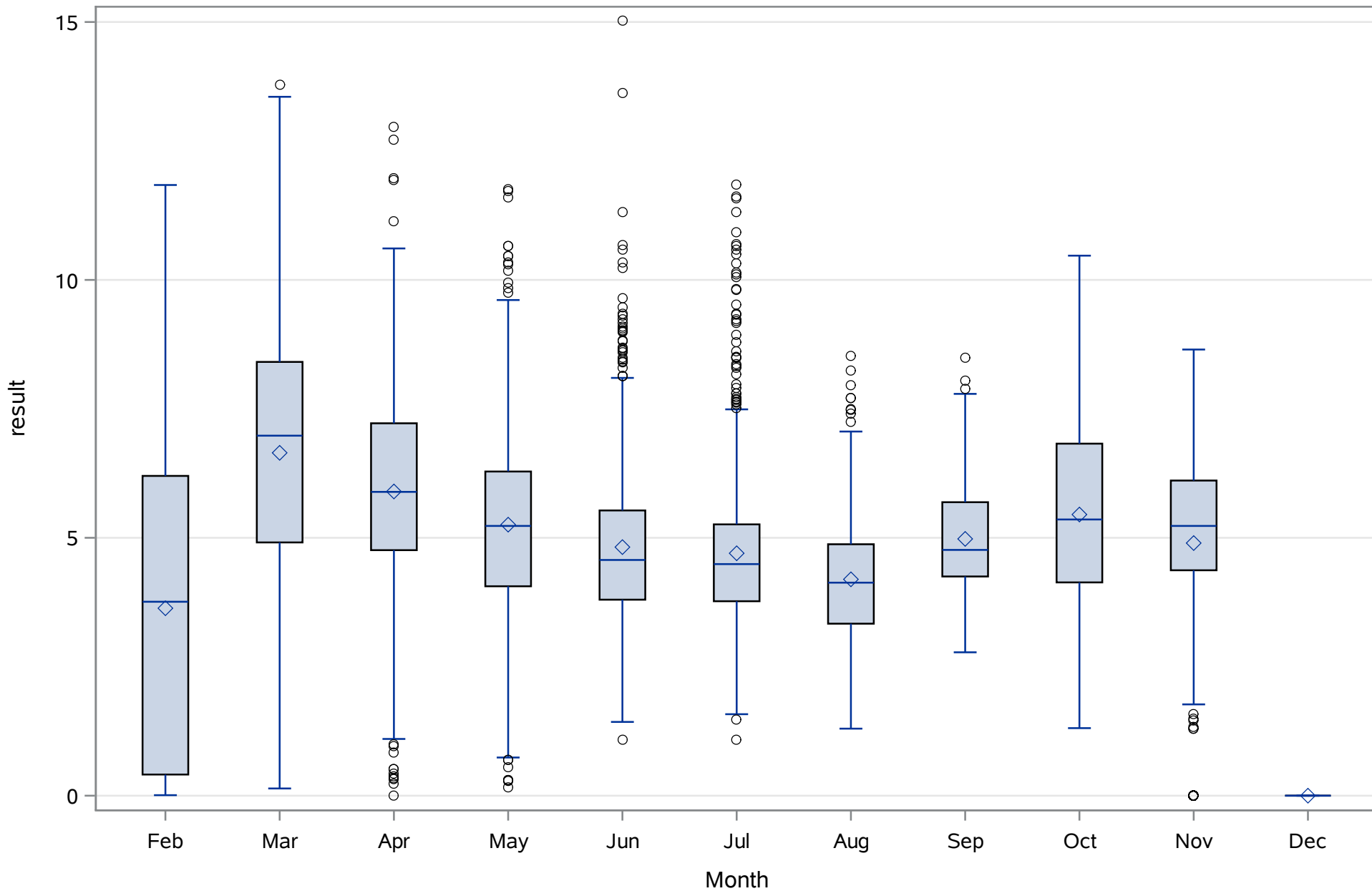
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
COND



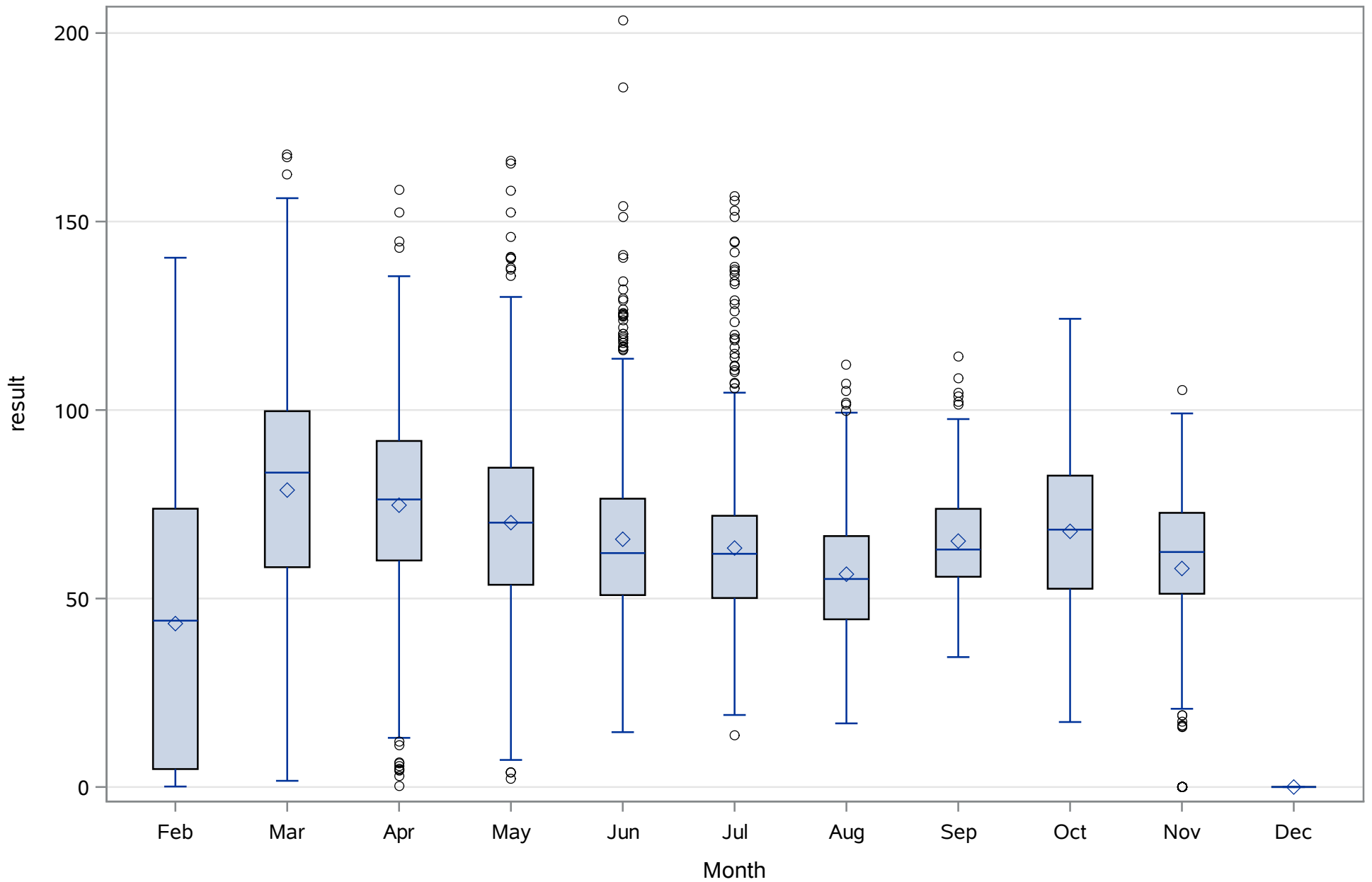
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DARK_SPECTRUM_AVG



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DO_MGL

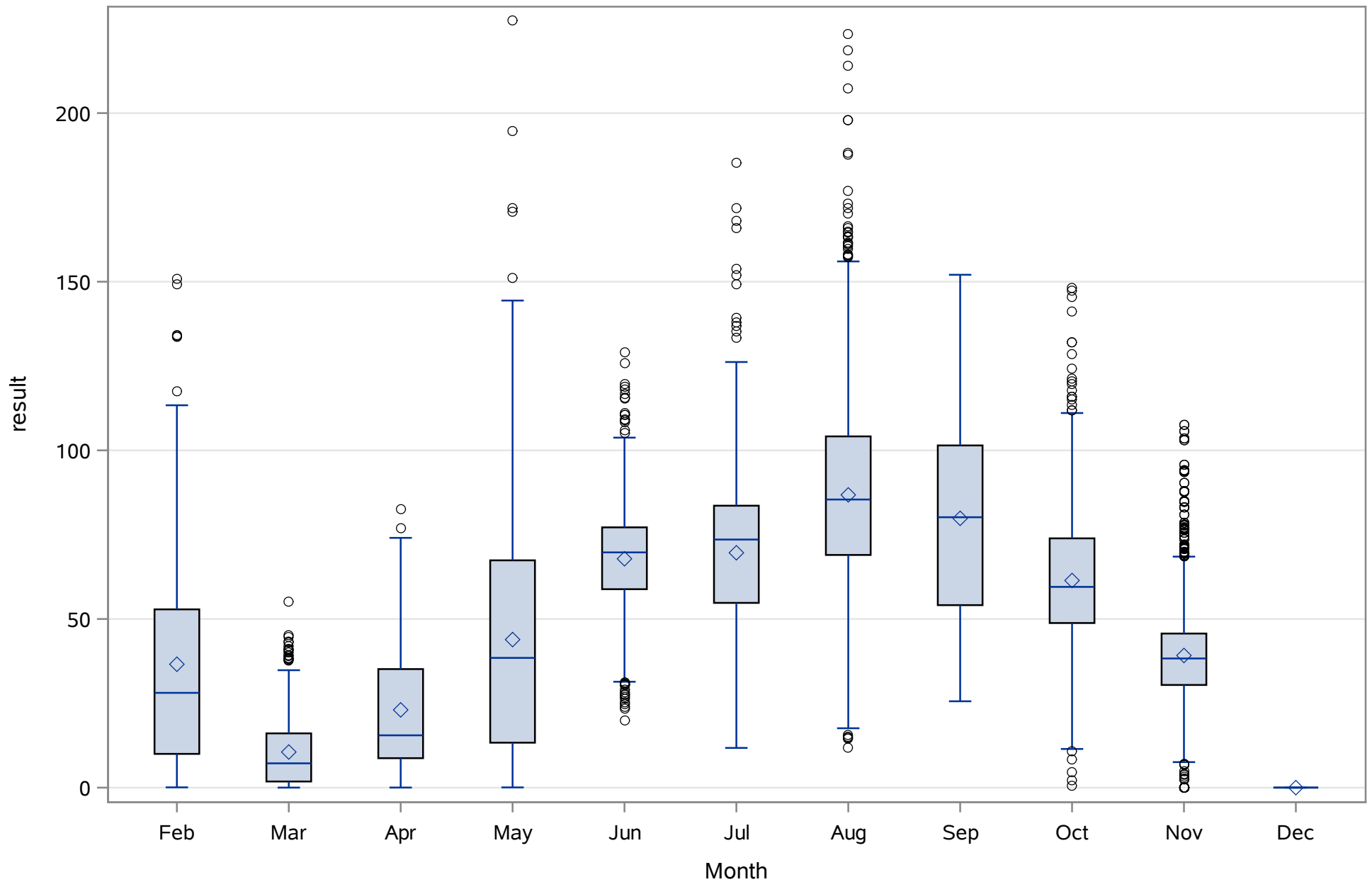


Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
DO_PCT

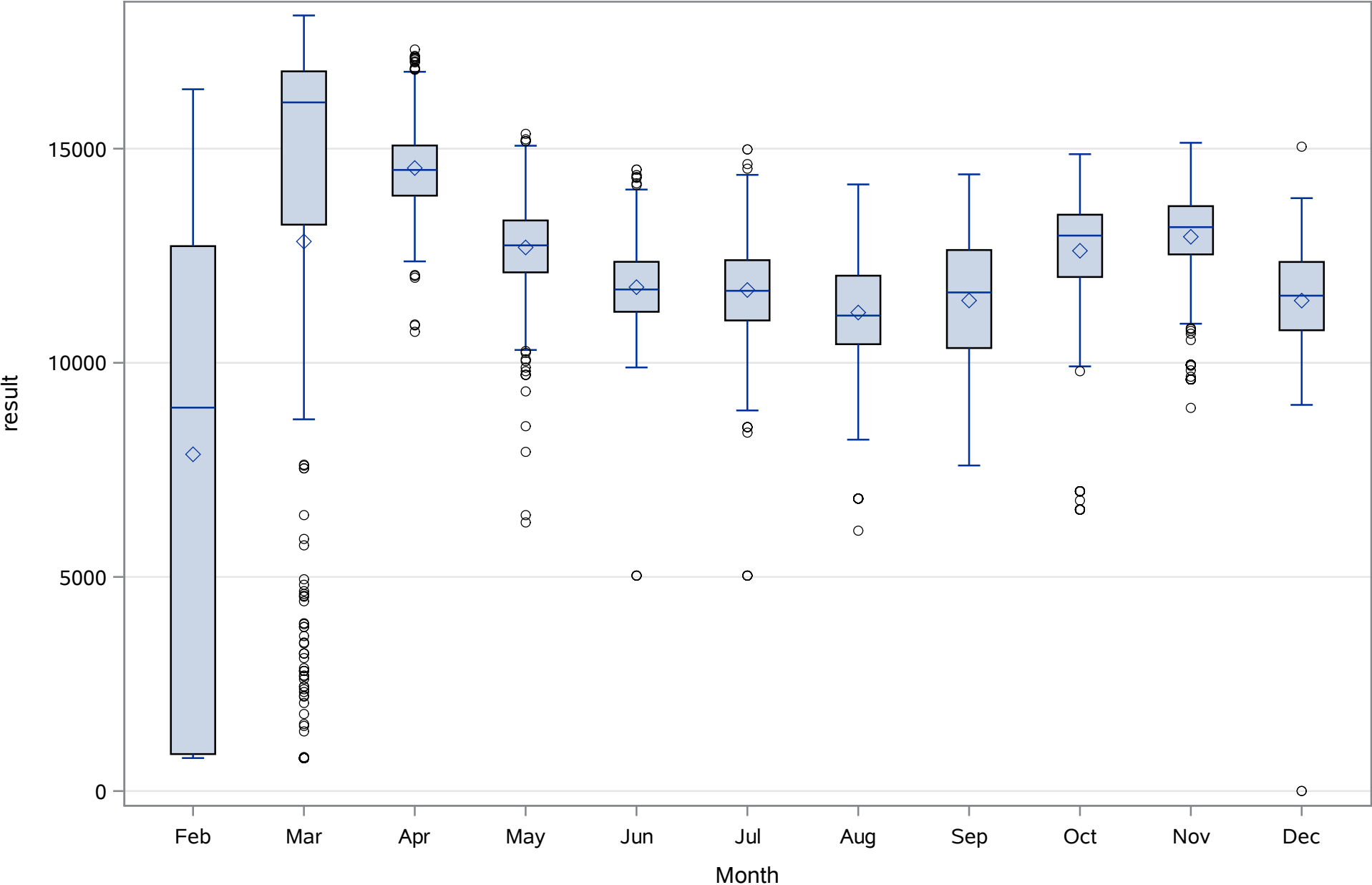


Chassahowitzka River - Continuous Recorder

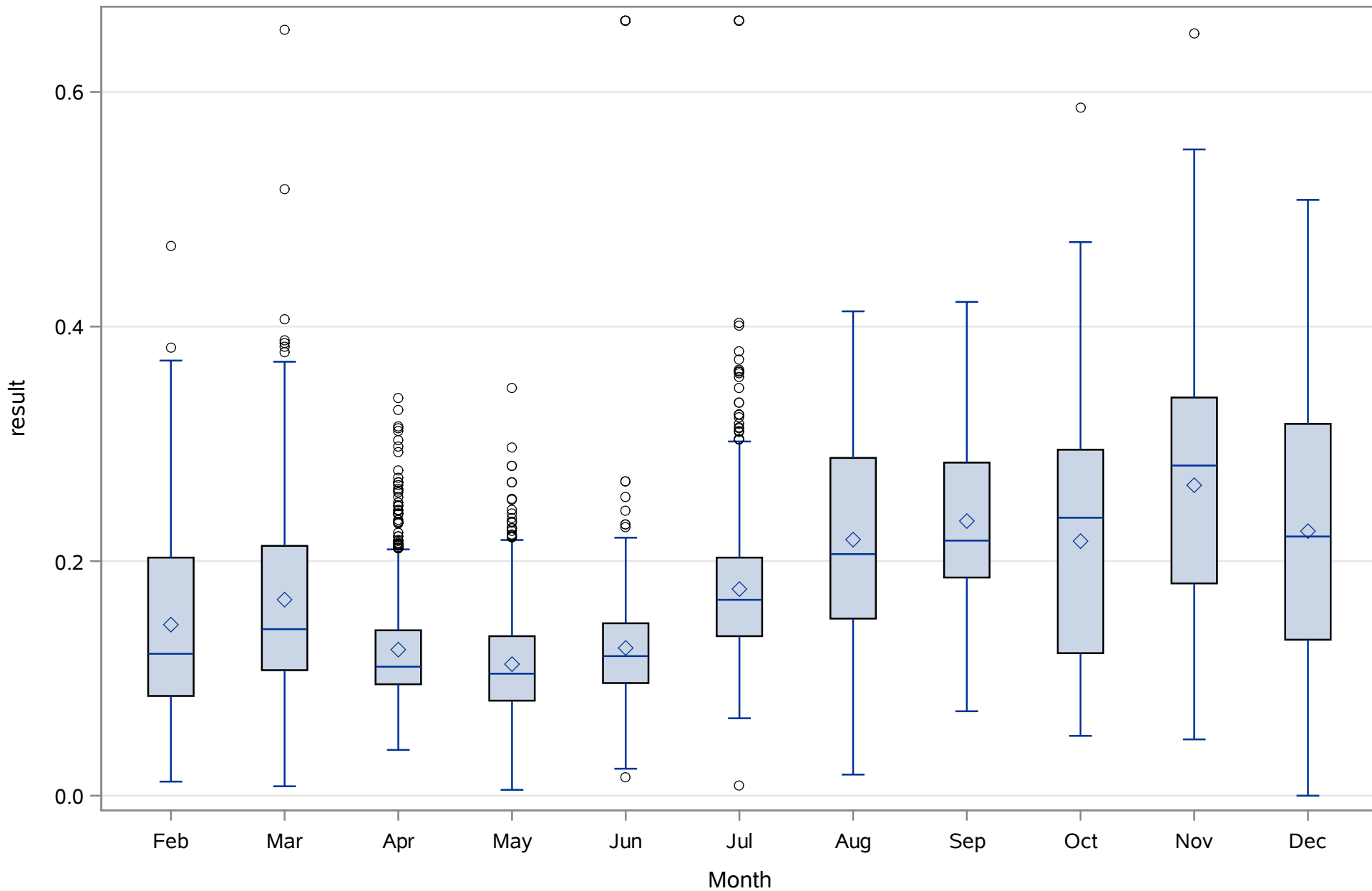
Source: Continuous Recorder
Chass Near USGS Gage
FDOM_QSU



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
LIGHT_SPECTRUM_AVG



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
NITRATE_MGL

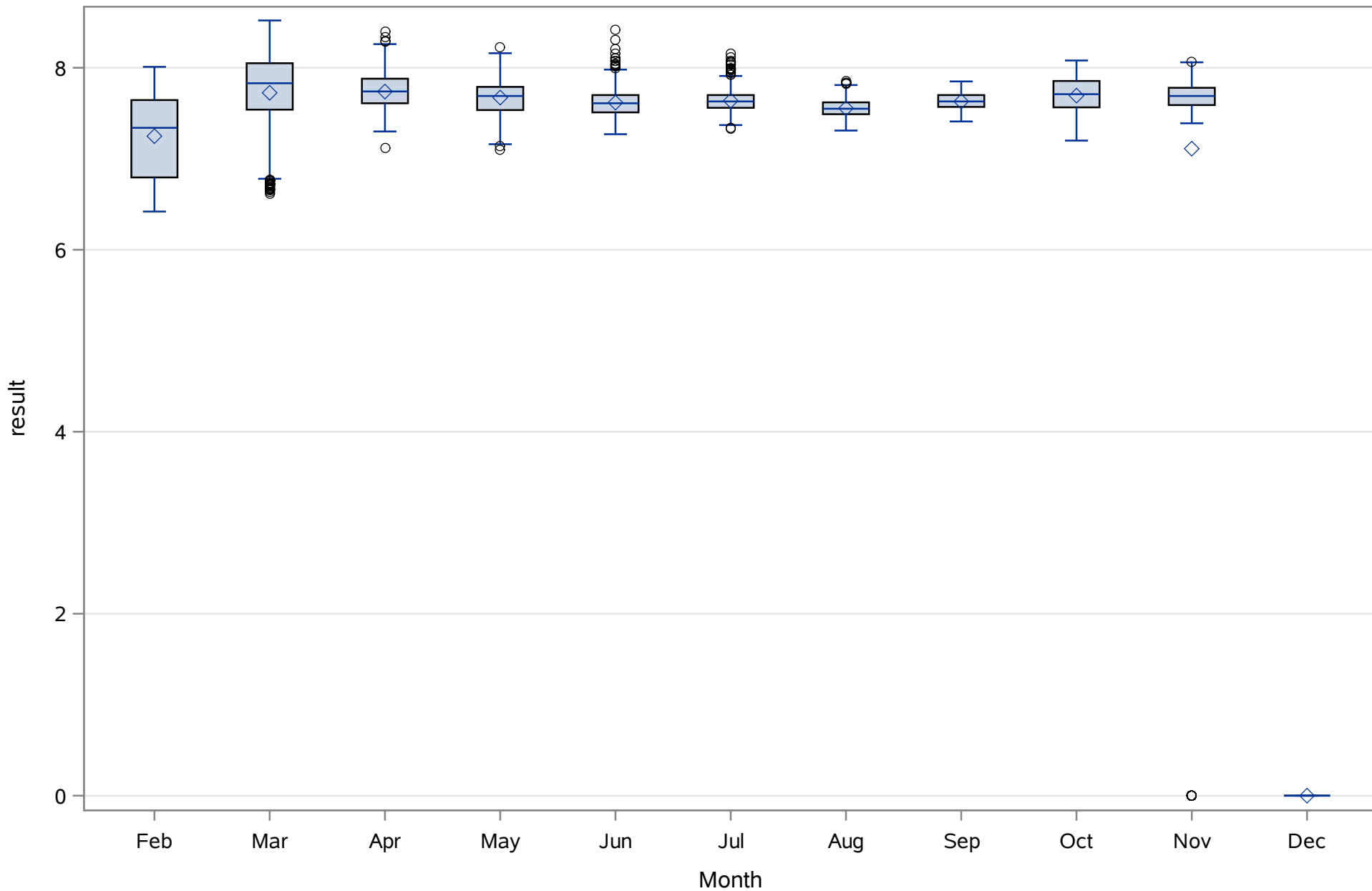


Chassahowitzka River - Continuous Recorder

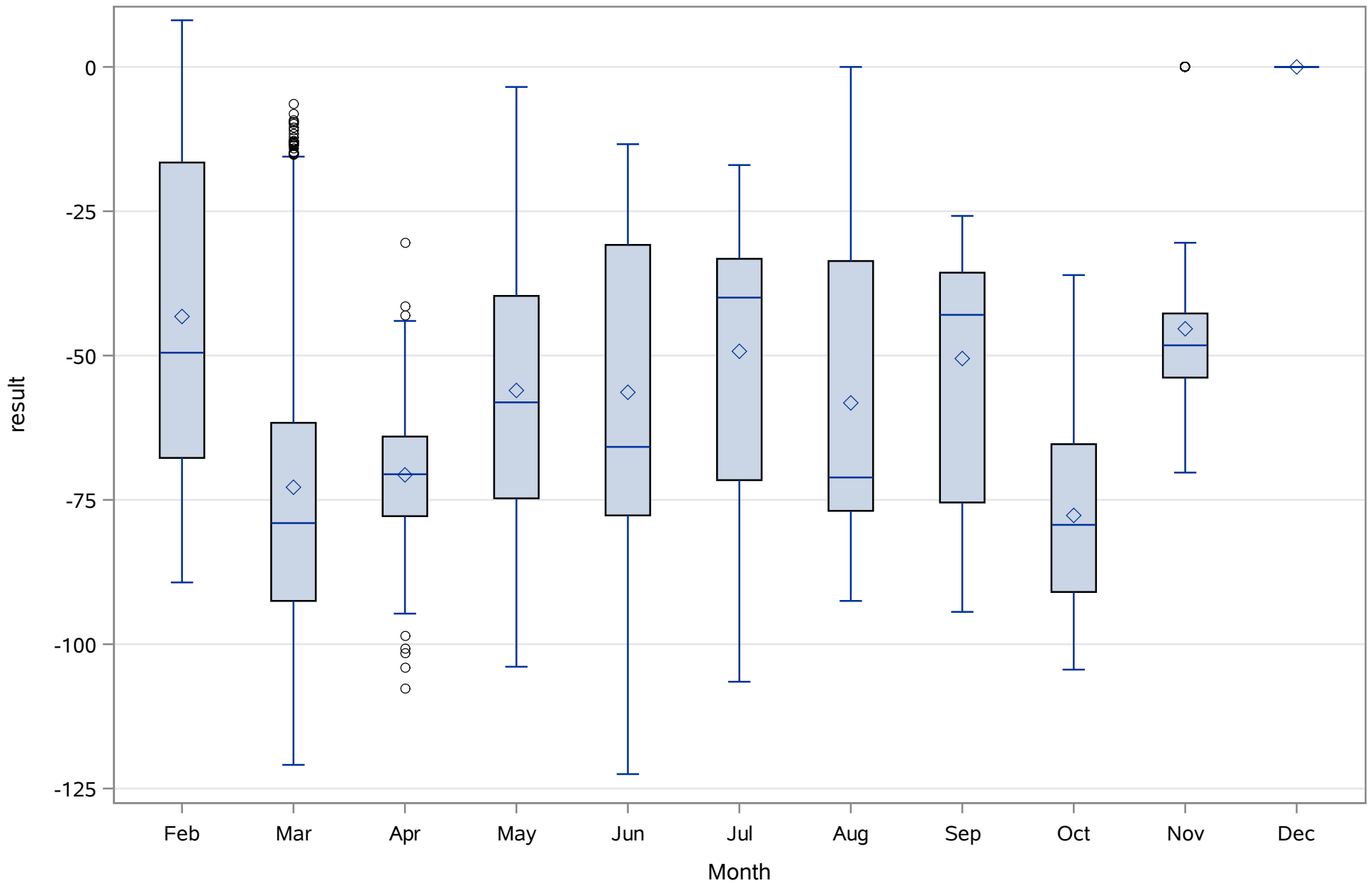
Source: Continuous Recorder

Chass Near USGS Gage

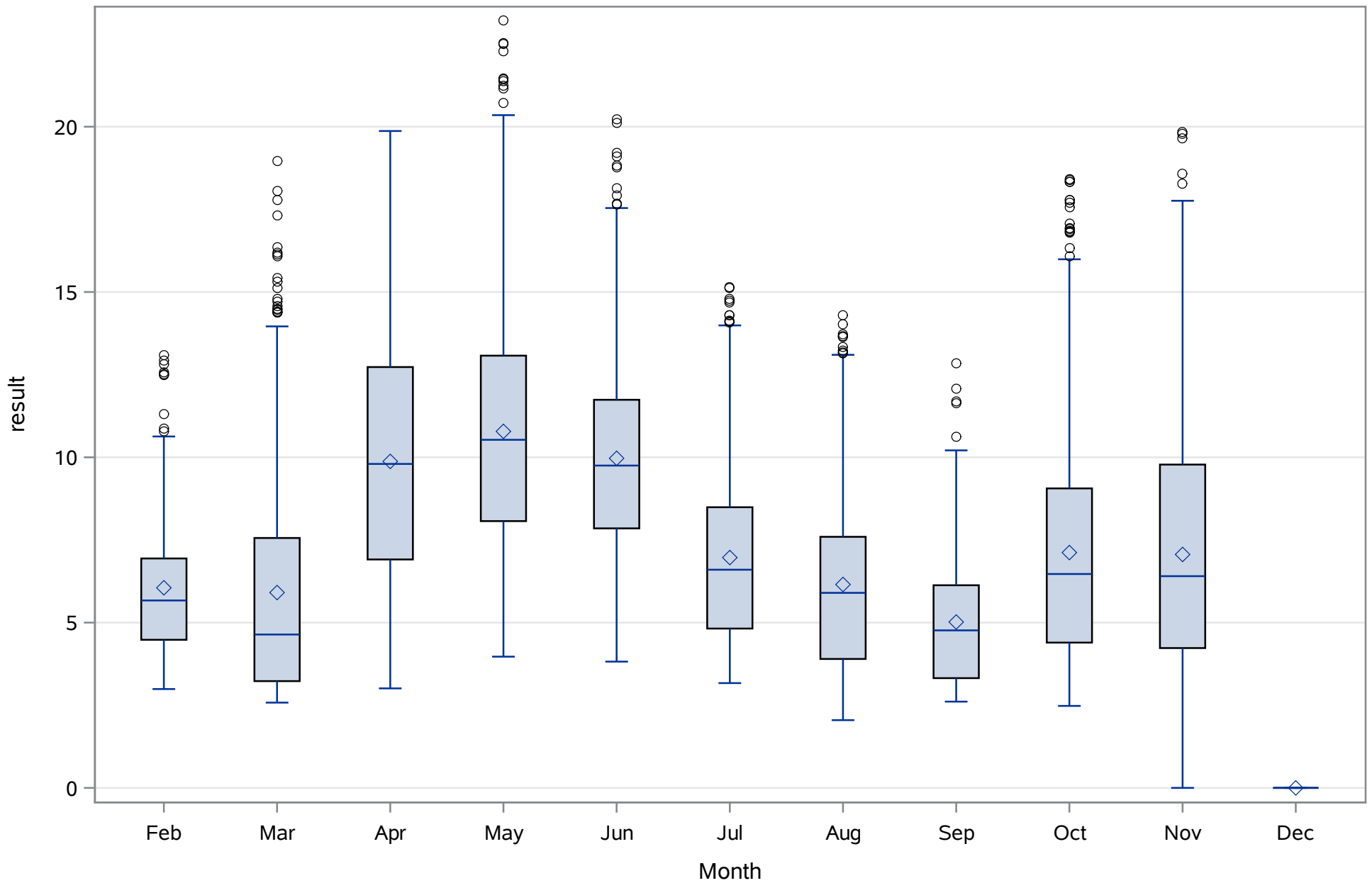
PH



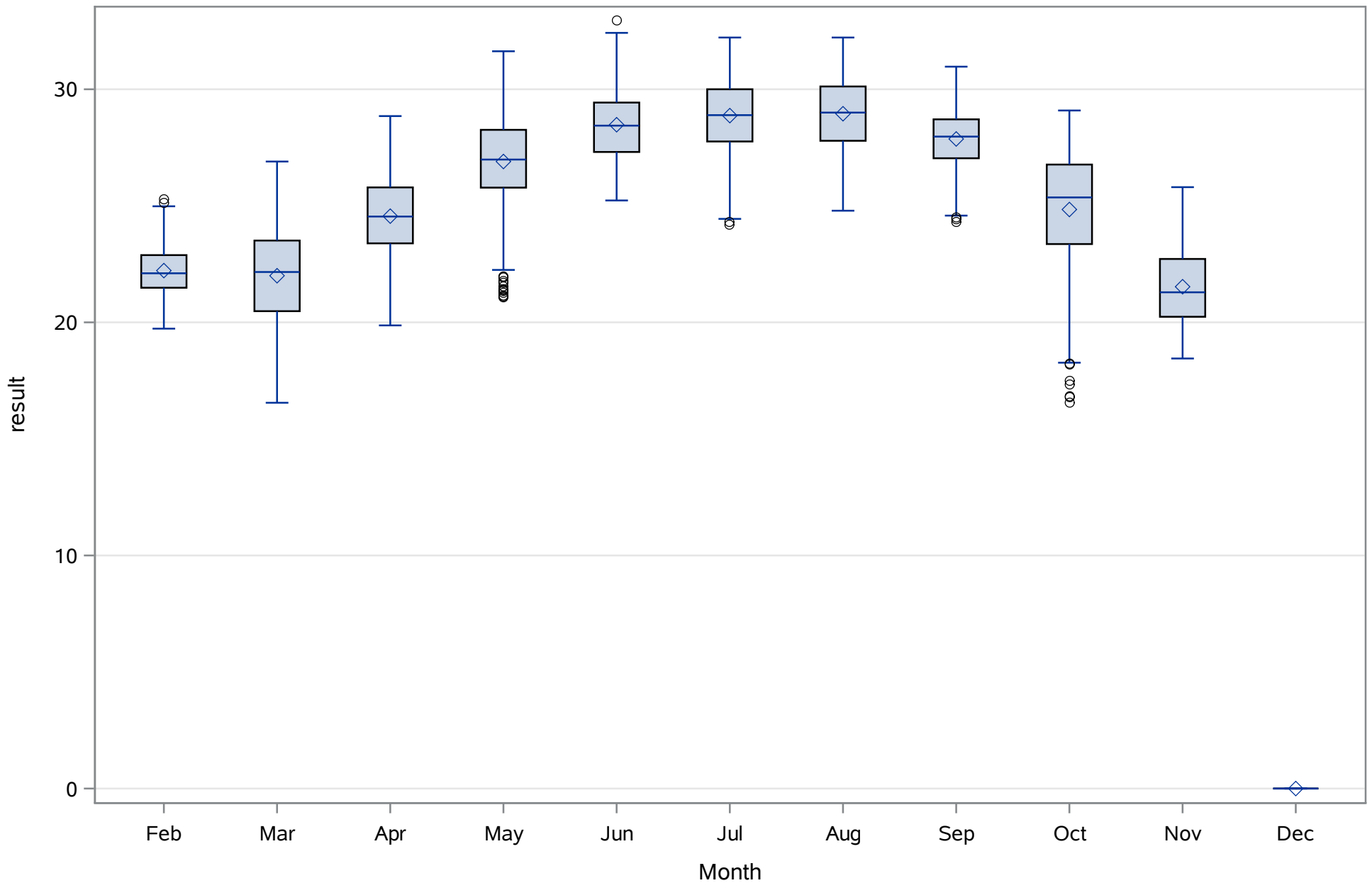
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
PH_mV



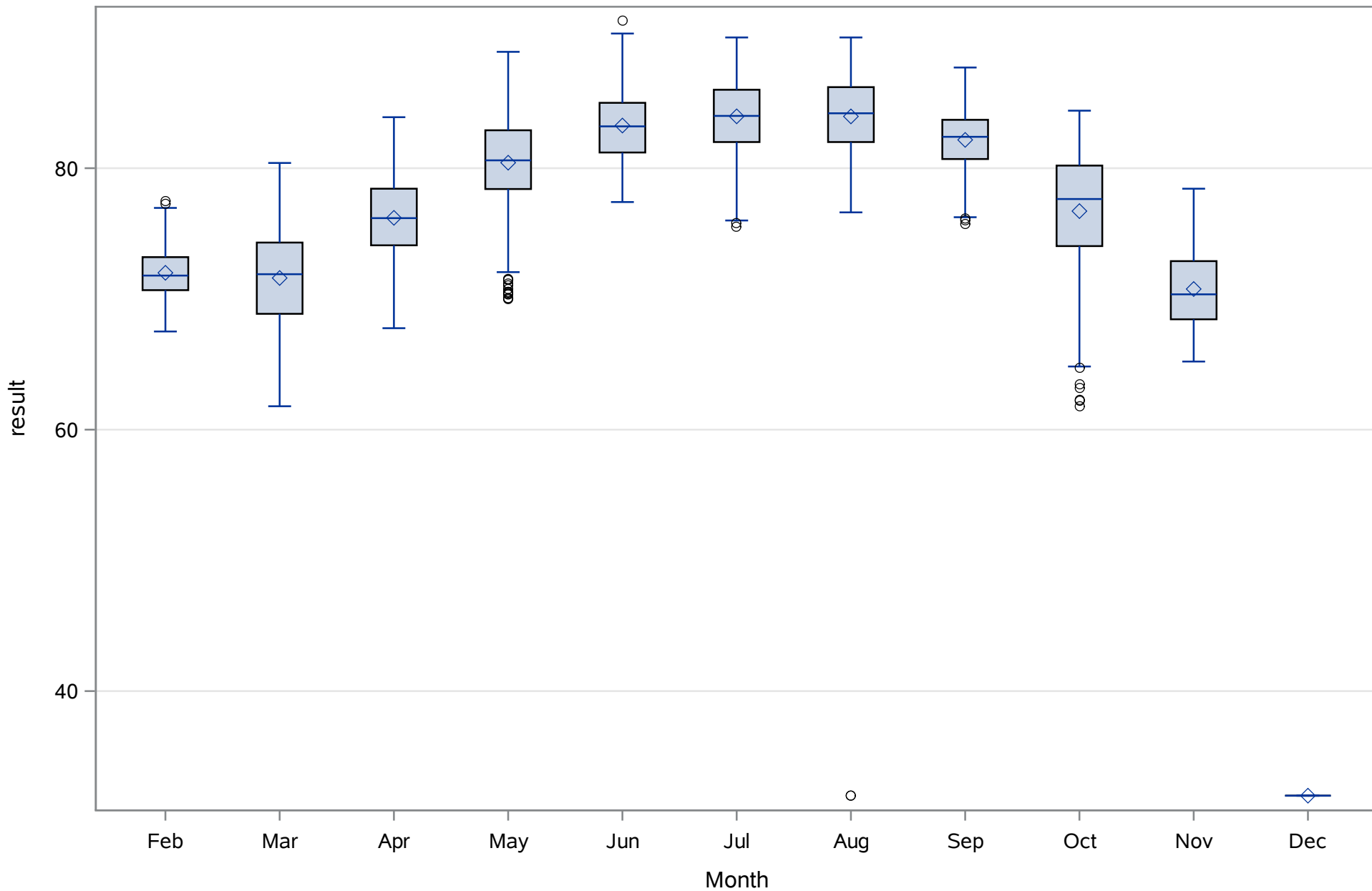
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
SAL_PPT



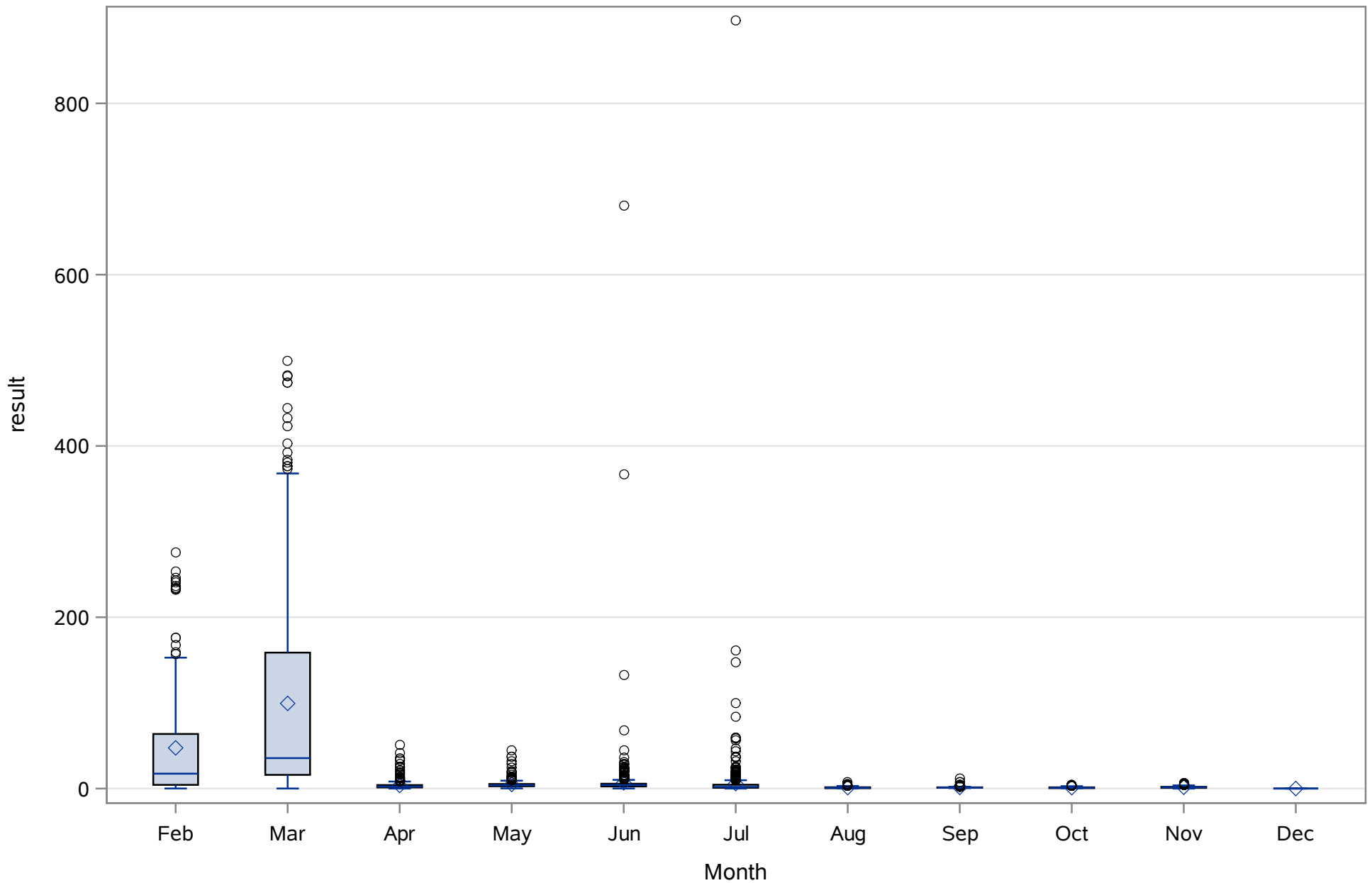
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_C



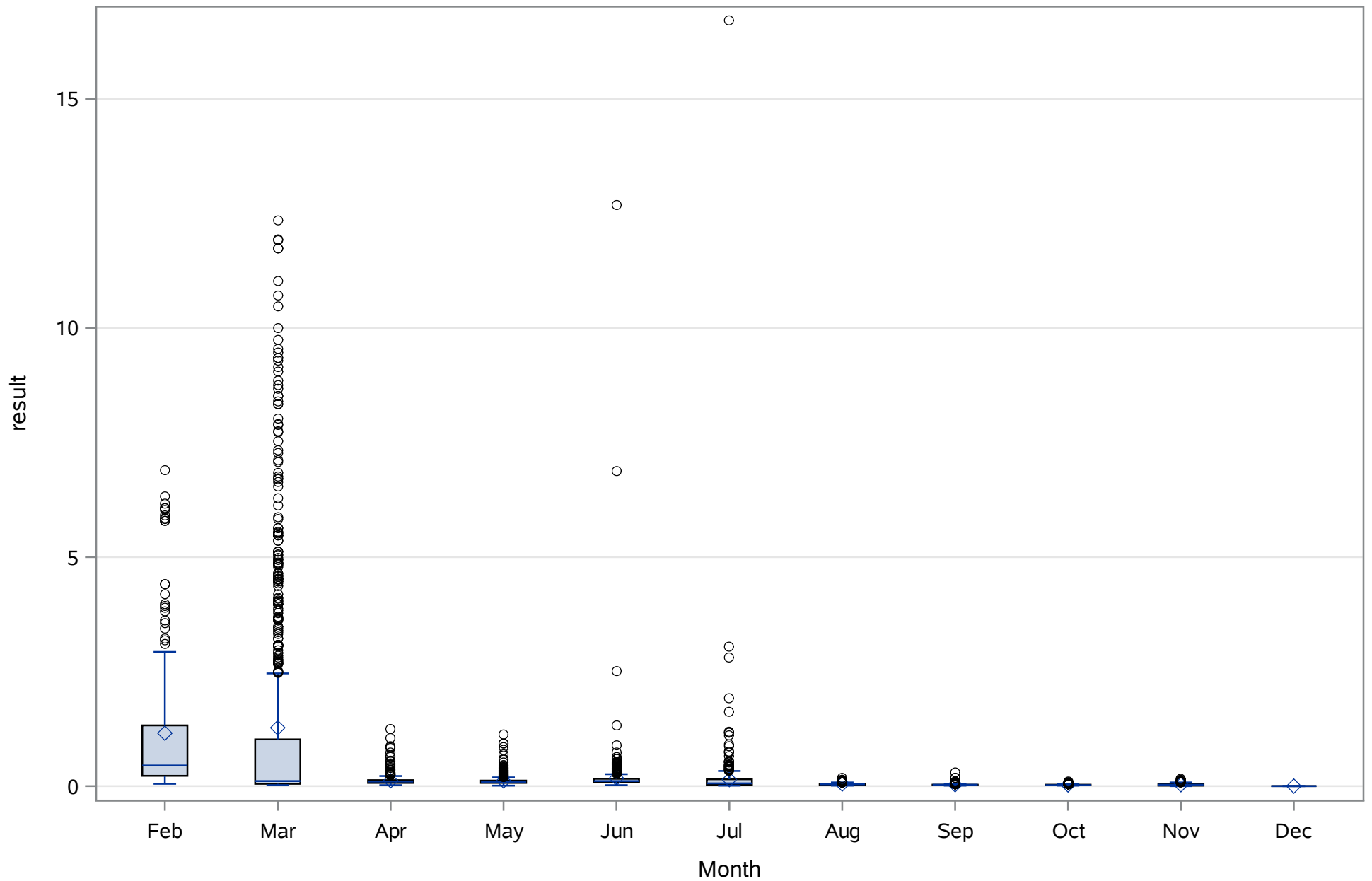
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TEMP_F



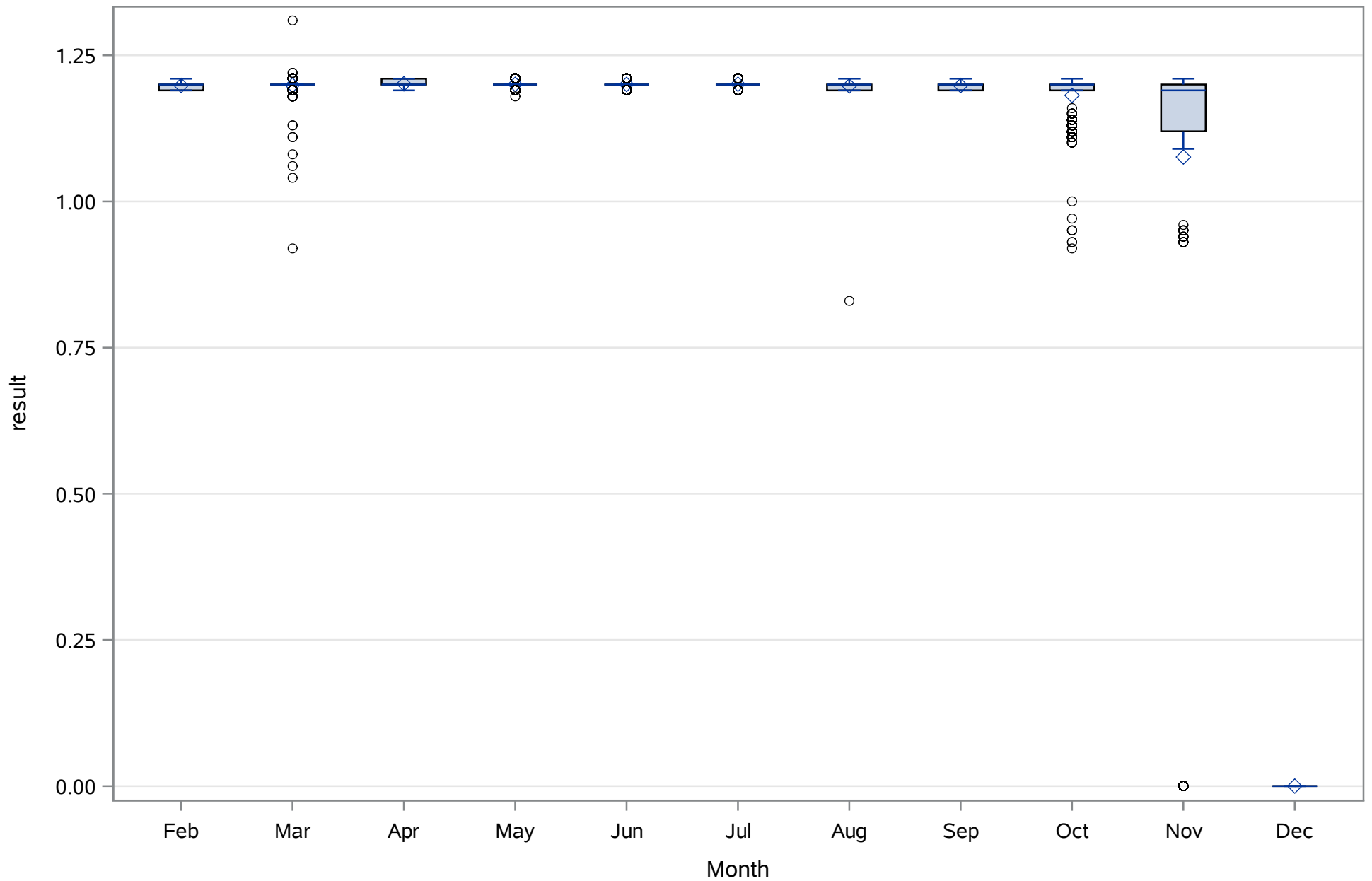
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TURB_NTU



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
TURB_RAW



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Chass Near USGS Gage
WIPER_POS_V



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Daily

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
COND		JAN2017	APR2018	412	0.0%	0.0%	0.0%
DO_MGL		JAN2017	APR2018	412	0.0%	0.0%	0.0%
DO_PCT		JAN2017	APR2018	412	0.0%	0.0%	0.0%
PH		JAN2017	APR2018	412	0.0%	0.0%	0.0%
SAL_PPT		JAN2017	APR2018	412	0.0%	0.0%	0.0%
TEMP_C		JAN2017	APR2018	412	0.0%	0.0%	0.0%

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily COND

The UNIVARIATE Procedure
Variable: result

Moments			
N	412	Sum Weights	412
Mean	3173.32985	Sum Observations	1307411.9
Std Deviation	969.098956	Variance	939152.786
Skewness	-0.0344595	Kurtosis	-0.751973
Uncorrected SS	4534841009	Corrected SS	385991795
Coeff Variation	30.5388661	Std Error Mean	47.7440787

Basic Statistical Measures			
Location		Variability	
Mean	3173.330	Std Deviation	969.09896
Median	3059.000	Variance	939153
Mode	2003.000	Range	5495
		Interquartile Range	1536

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	66.46541	Pr > t 	<.0001
Sign	M	206	Pr >= M 	<.0001
Signed Rank	S	42539	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	5628.0
99%	4962.0
95%	4677.0
90%	4440.0
75% Q3	4008.5
50% Median	3059.0
25% Q1	2473.0
10%	1921.0
5%	1585.0

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily

COND

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	1213.0
0% Min	132.9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
132.9	309	4962	128
1017.0	272	5035	141
1039.0	318	5126	126
1201.0	310	5184	5
1213.0	287	5628	140

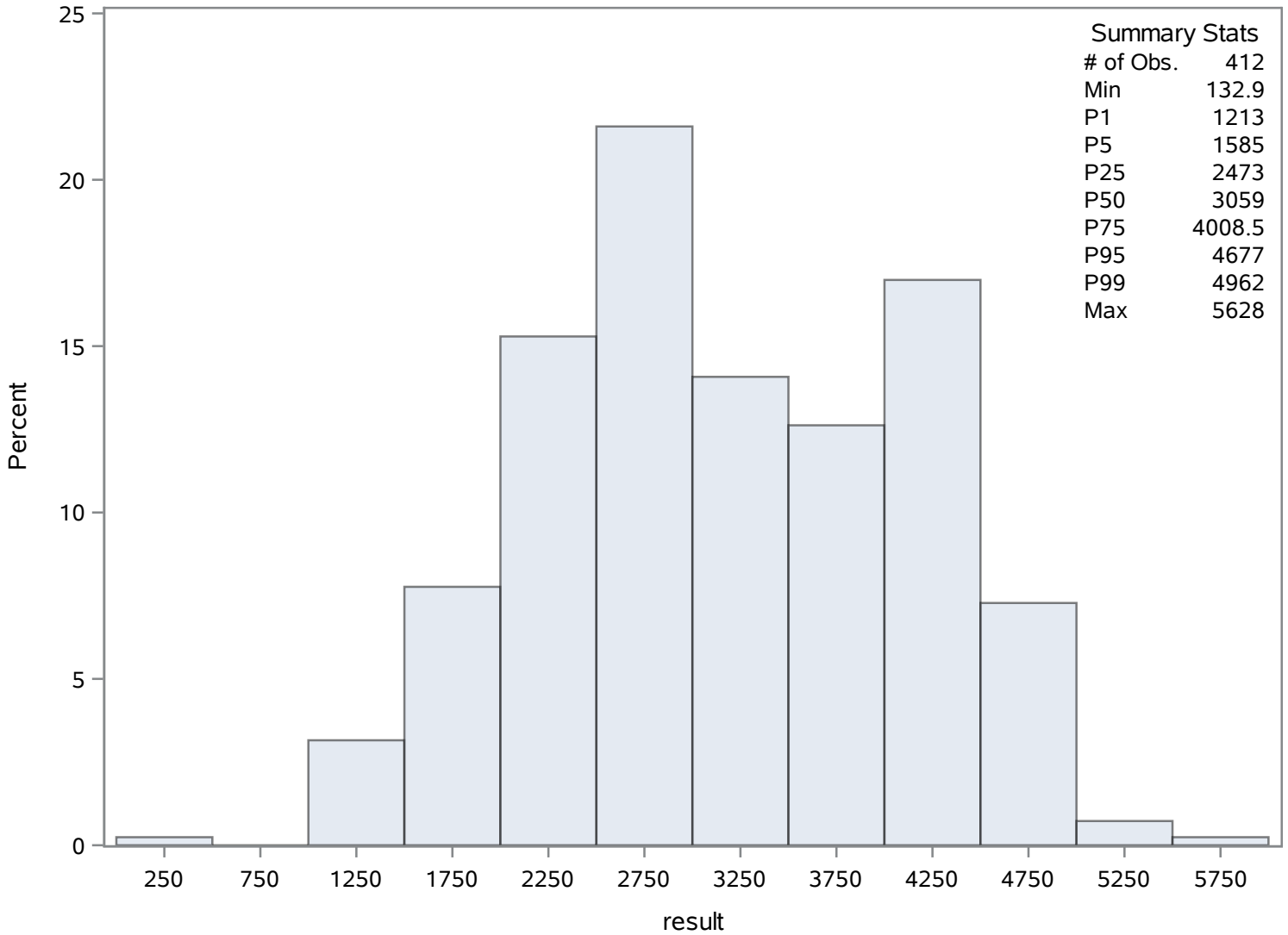
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily COND

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily DO_MGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	412	Sum Weights	412
Mean	5.56571845	Sum Observations	2293.076
Std Deviation	0.81802888	Variance	0.66917125
Skewness	-0.3527618	Kurtosis	3.5447173
Uncorrected SS	13037.6448	Corrected SS	275.029385
Coeff Variation	14.6976332	Std Error Mean	0.04030139

Basic Statistical Measures			
Location		Variability	
Mean	5.565718	Std Deviation	0.81803
Median	5.497500	Variance	0.66917
Mode	5.068000	Range	7.49700
		Interquartile Range	0.94350

Note: The mode displayed is the smallest of 2 modes with a count of 3.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	138.1024	Pr > t 	<.0001
Sign	M	206	Pr >= M 	<.0001
Signed Rank	S	42539	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.9860
99%	7.4750
95%	6.9980
90%	6.6410
75% Q3	6.0190
50% Median	5.4975
25% Q1	5.0755
10%	4.6010
5%	4.3670

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily

DO_MGL

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	3.7940
0% Min	0.4890

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.489	721	7.475	569
2.449	722	7.554	526
3.559	708	7.567	514
3.730	693	7.644	518
3.794	608	7.986	515

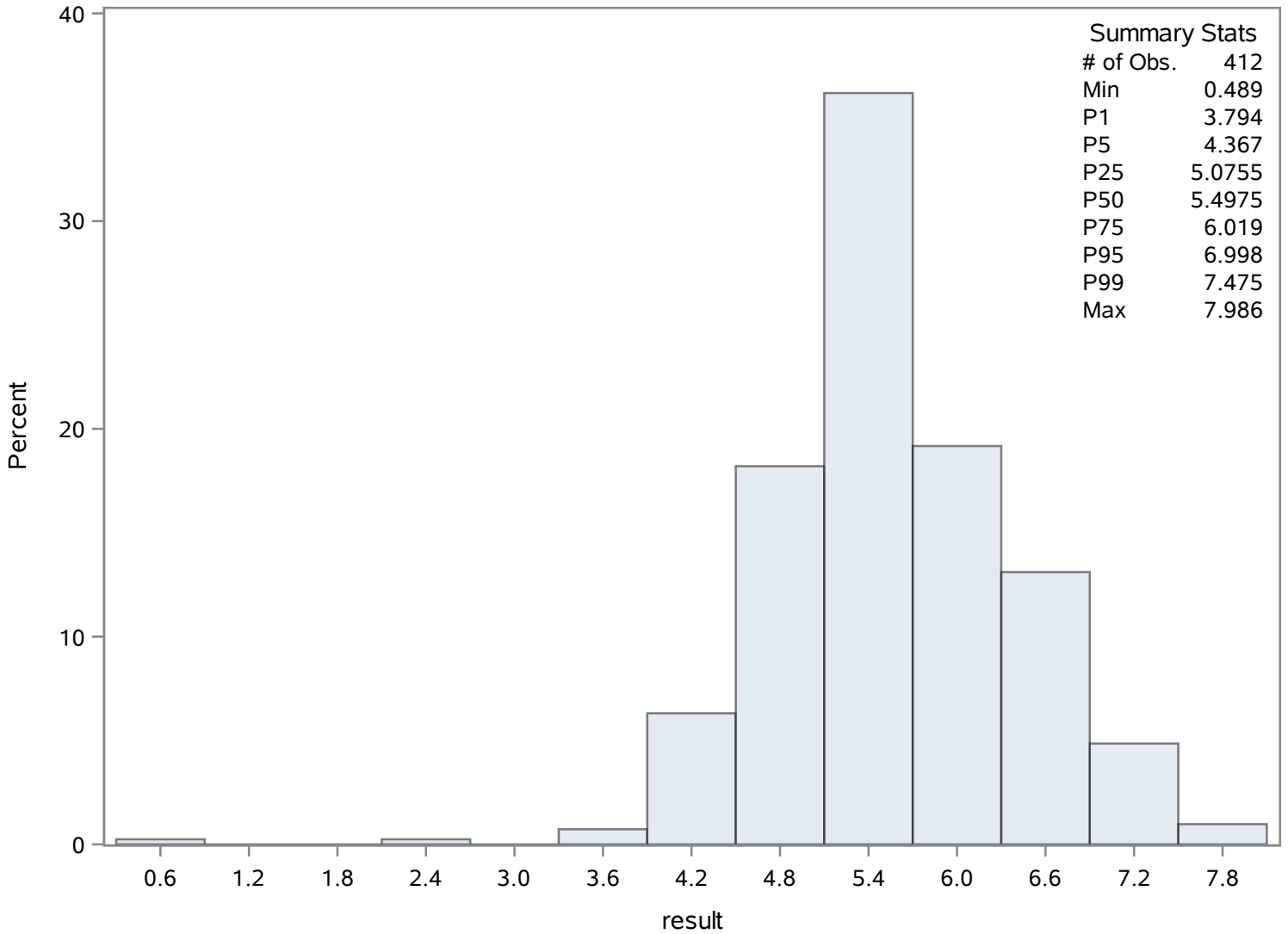
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily DO_MGL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily DO_PCT

The UNIVARIATE Procedure
Variable: result

Moments			
N	412	Sum Weights	412
Mean	65.8847913	Sum Observations	27144.534
Std Deviation	9.88682191	Variance	97.7492474
Skewness	-0.1383703	Kurtosis	3.55035085
Uncorrected SS	1828586.9	Corrected SS	40174.9407
Coeff Variation	15.0062279	Std Error Mean	0.48708875

Basic Statistical Measures			
Location		Variability	
Mean	65.88479	Std Deviation	9.88682
Median	64.55500	Variance	97.74925
Mode	68.49000	Range	91.13600
		Interquartile Range	10.72000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	135.2624	Pr > t 	<.0001
Sign	M	206	Pr >= M 	<.0001
Signed Rank	S	42539	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	96.700
99%	91.600
95%	83.300
90%	79.200
75% Q3	71.040
50% Median	64.555
25% Q1	60.320
10%	55.090
5%	52.330
1%	45.280
0% Min	5.564

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Daily
DO_PCT

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.564	1133	91.6	980
28.820	1134	91.8	926
41.420	1120	92.1	981
43.810	1105	92.2	930
45.280	1020	96.7	927

Chassahowitzka River - Continuous Recorder

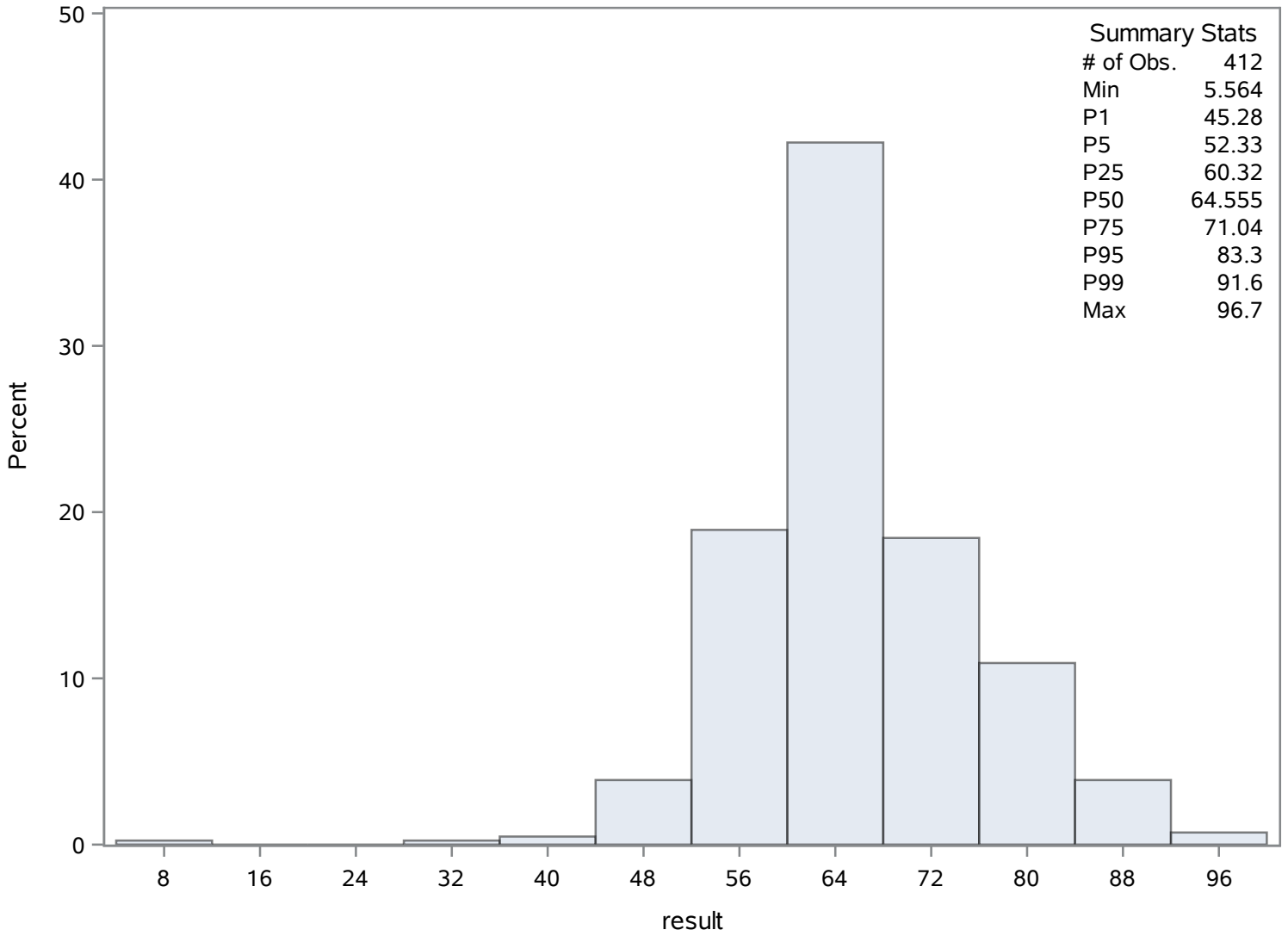
Source: Continuous Recorder

Daily

DO_PCT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily PH

The UNIVARIATE Procedure
Variable: result

Moments			
N	412	Sum Weights	412
Mean	7.45624757	Sum Observations	3071.974
Std Deviation	0.45902425	Variance	0.21070326
Skewness	-10.632176	Kurtosis	134.561251
Uncorrected SS	22991.9977	Corrected SS	86.5990407
Coeff Variation	6.15623671	Std Error Mean	0.0226145

Basic Statistical Measures			
Location		Variability	
Mean	7.456248	Std Deviation	0.45902
Median	7.506000	Variance	0.21070
Mode	7.495000	Range	7.01600
		Interquartile Range	0.09150

Note: The mode displayed is the smallest of 2 modes with a count of 8.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	329.7109	Pr > t 	<.0001
Sign	M	206	Pr >= M 	<.0001
Signed Rank	S	42539	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7.7080
99%	7.6750
95%	7.6450
90%	7.6150
75% Q3	7.5590
50% Median	7.5060
25% Q1	7.4675
10%	7.4180
5%	7.3430

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily

PH

The UNIVARIATE Procedure
Variable: result

Quantiles (Definition 5)	
Level	Quantile
1%	5.2520
0% Min	0.6920

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.692	1545	7.675	1305
3.353	1546	7.675	1392
4.949	1532	7.676	1350
5.077	1517	7.684	1393
5.252	1554	7.708	1307

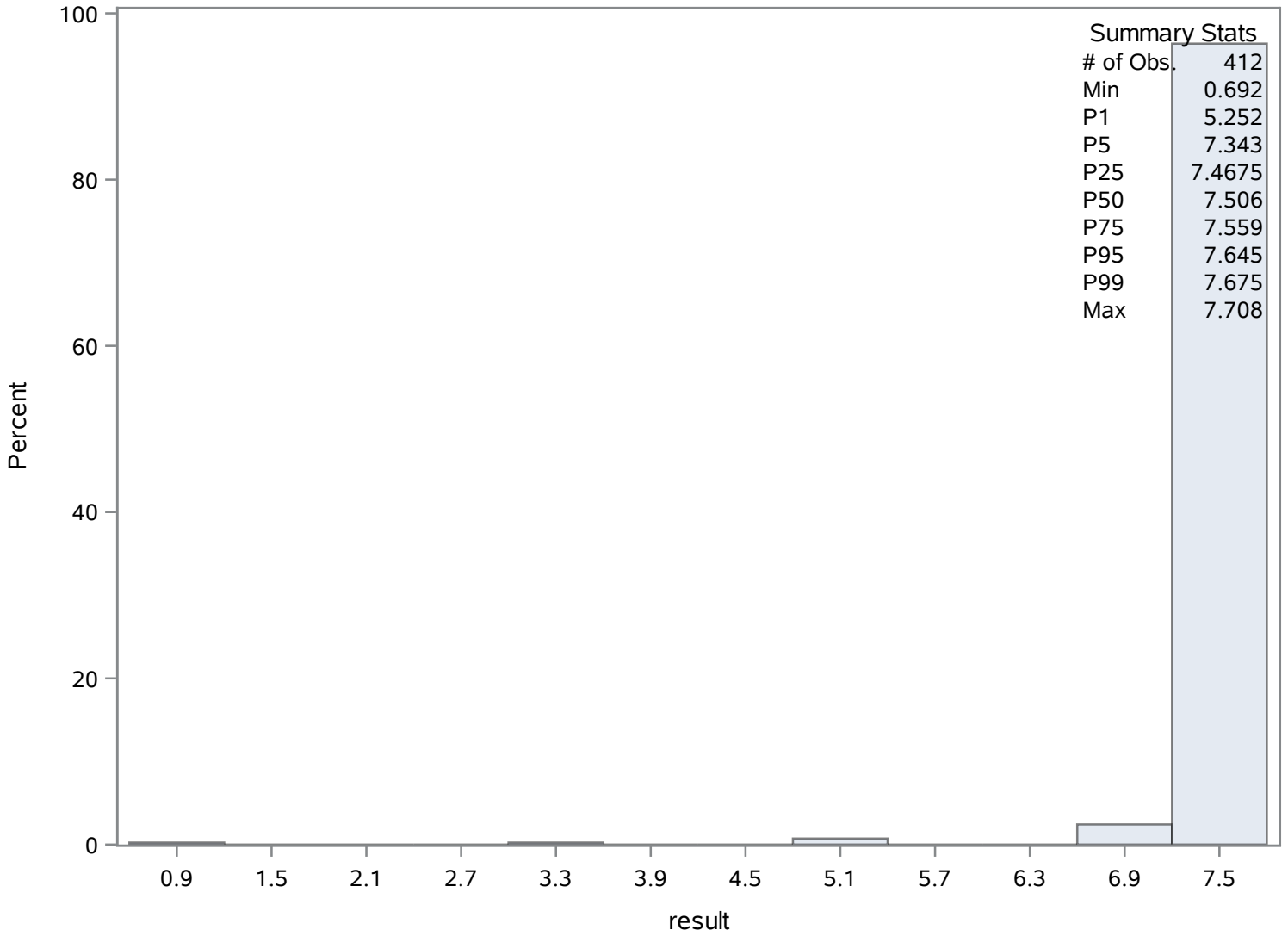
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily PH

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily SAL_PPT

The UNIVARIATE Procedure
Variable: result

Moments			
N	412	Sum Weights	412
Mean	1.67538835	Sum Observations	690.26
Std Deviation	0.5339431	Variance	0.28509524
Skewness	-0.000455	Kurtosis	-0.7846647
Uncorrected SS	1273.6277	Corrected SS	117.174142
Coeff Variation	31.8698111	Std Error Mean	0.02630549

Basic Statistical Measures			
Location		Variability	
Mean	1.675388	Std Deviation	0.53394
Median	1.611000	Variance	0.28510
Mode	1.578000	Range	2.99100
		Interquartile Range	0.84800

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	63.68969	Pr > t	<.0001
Sign	M	206	Pr >= M	<.0001
Signed Rank	S	42539	Pr >= S	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.058
99%	2.671
95%	2.503
90%	2.379
75% Q3	2.133
50% Median	1.611
25% Q1	1.285
10%	0.987
5%	0.807
1%	0.628
0% Min	0.067

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Daily
SAL_PPT

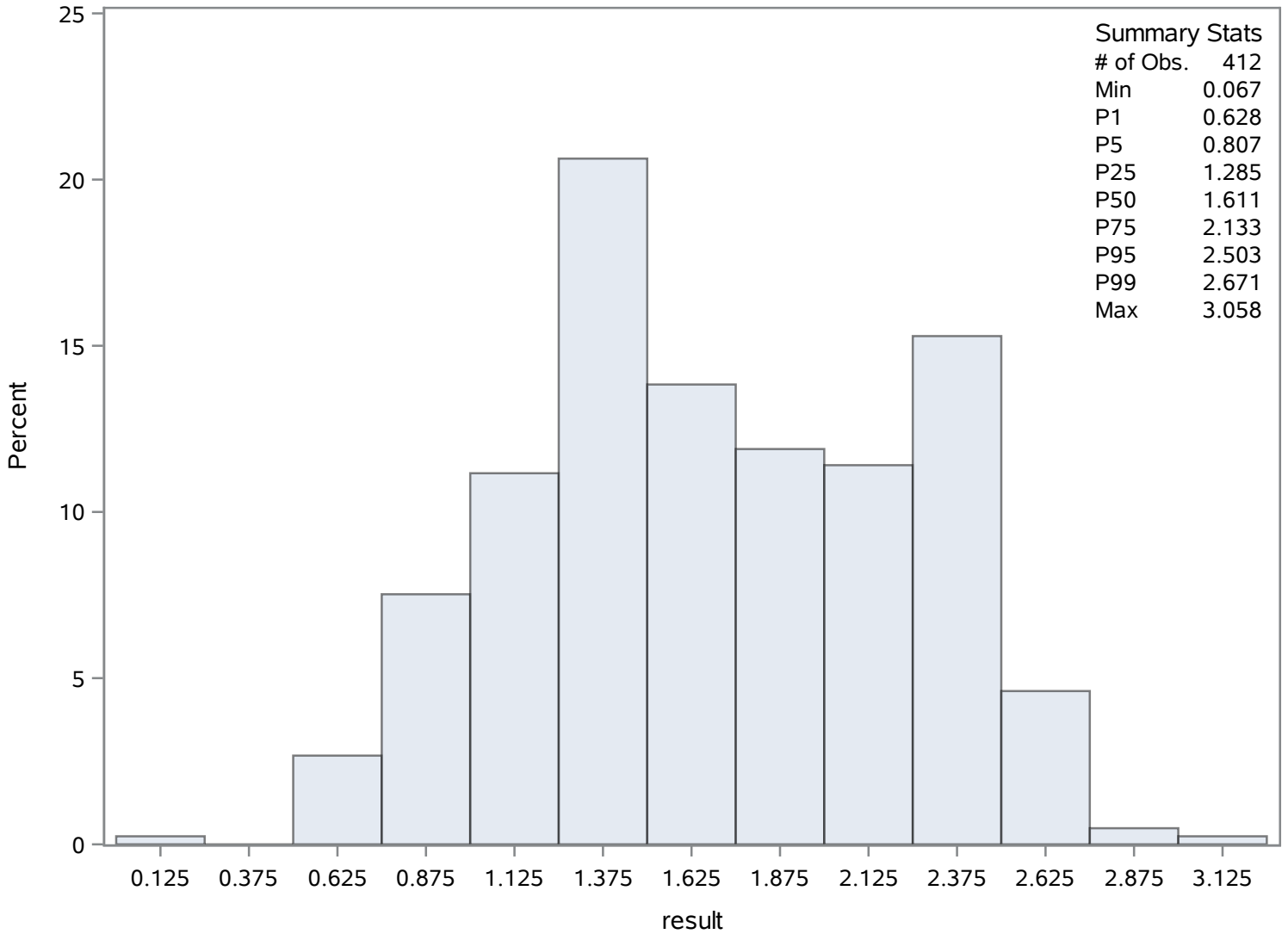
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.067	1957	2.671	1776
0.506	1920	2.721	1789
0.523	1966	2.765	1774
0.606	1935	2.814	1653
0.628	1958	3.058	1788

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Daily
SAL_PPT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	412	Sum Weights	412
Mean	23.0125291	Sum Observations	9481.162
Std Deviation	1.65420809	Variance	2.7364044
Skewness	-6.926984	Kurtosis	73.8679571
Uncorrected SS	219310.179	Corrected SS	1124.66221
Coeff Variation	7.1882933	Std Error Mean	0.08149698

Basic Statistical Measures			
Location		Variability	
Mean	23.01253	Std Deviation	1.65421
Median	23.20000	Variance	2.73640
Mode	24.18000	Range	22.87800
		Interquartile Range	1.33000

Note: The mode displayed is the smallest of 2 modes with a count of 6.

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	282.3728	Pr > t 	<.0001
Sign	M	206	Pr >= M 	<.0001
Signed Rank	S	42539	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.850
99%	24.670
95%	24.370
90%	24.220
75% Q3	23.860
50% Median	23.200
25% Q1	22.530
10%	21.980
5%	21.580

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily

TEMP_C

The UNIVARIATE Procedure
Variable: result

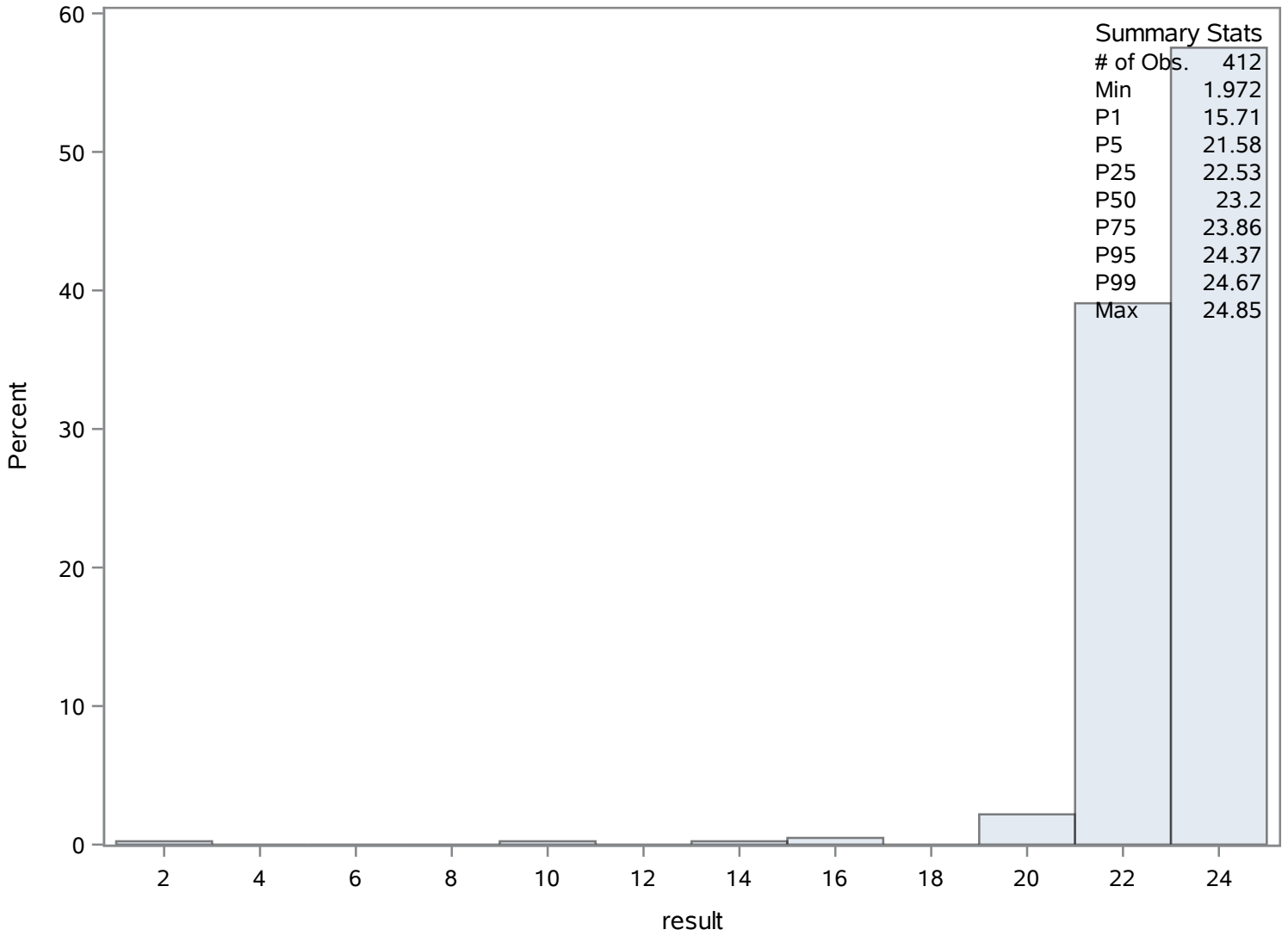
Quantiles (Definition 5)	
Level	Quantile
1%	15.710
0% Min	1.972

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.972	2369	24.67	2220
10.360	2370	24.68	2216
14.940	2356	24.79	2217
15.410	2378	24.80	2218
15.710	2341	24.85	2219

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Daily
TEMP_C

The UNIVARIATE Procedure

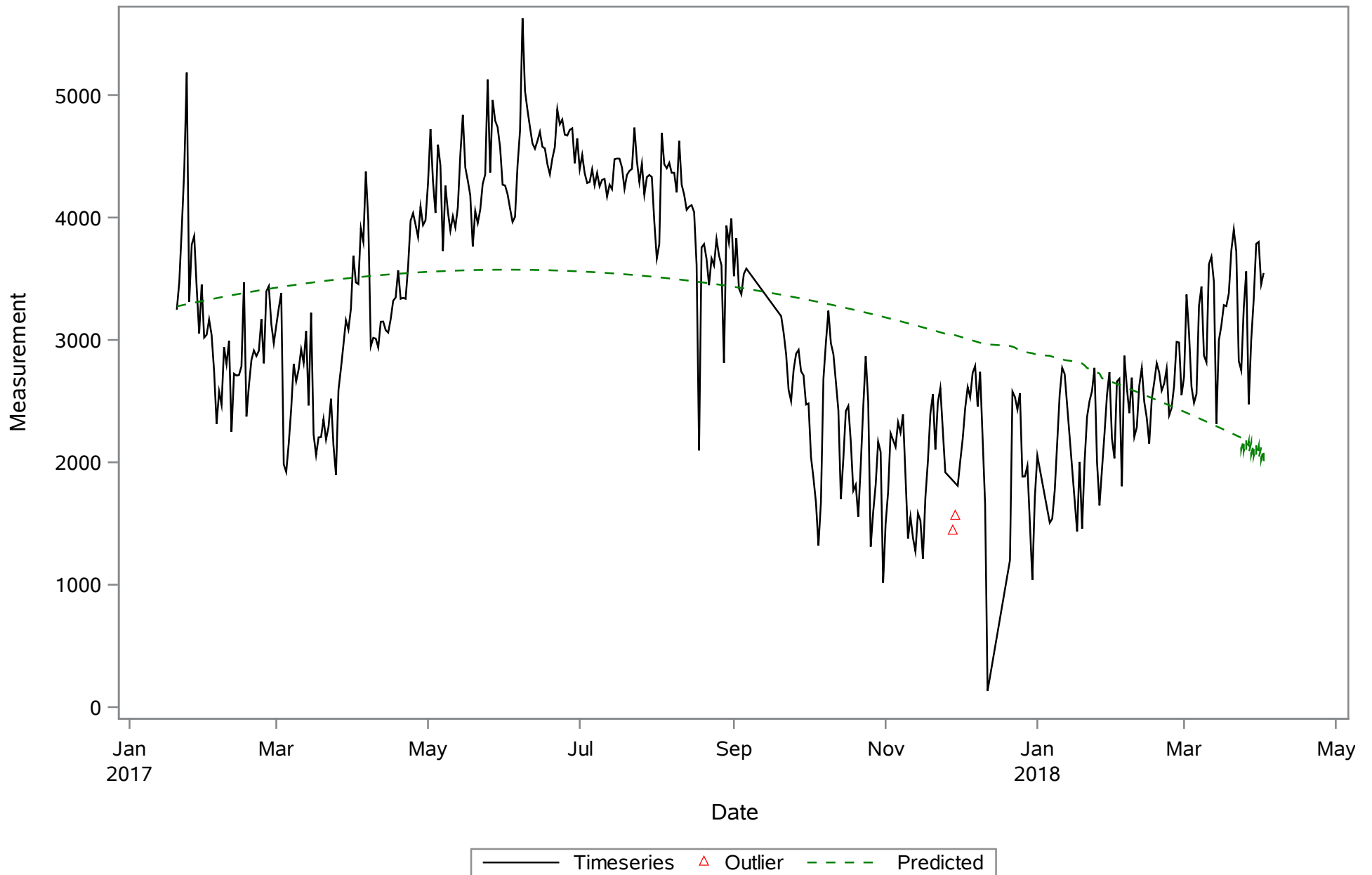
Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

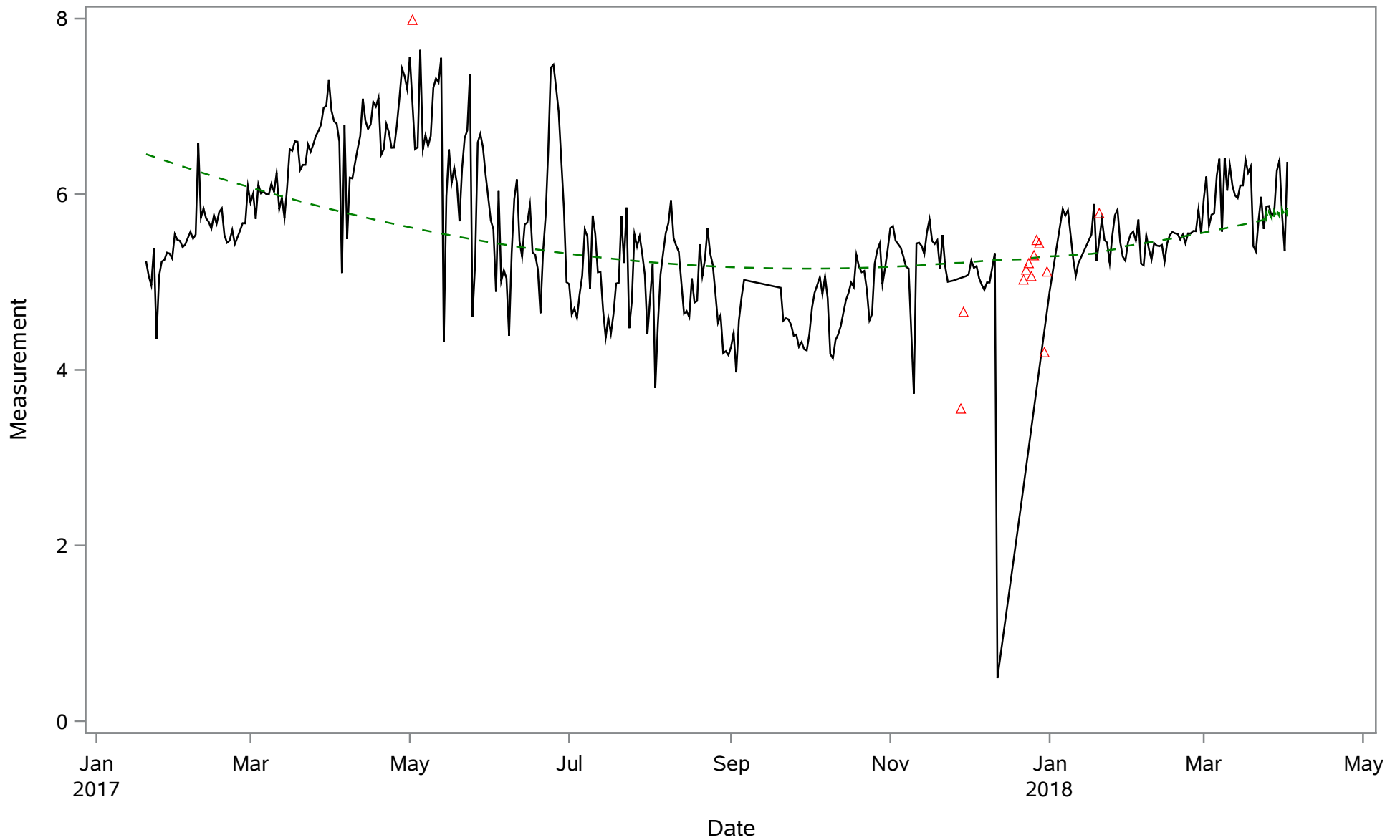
Daily COND



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily DO_MGL

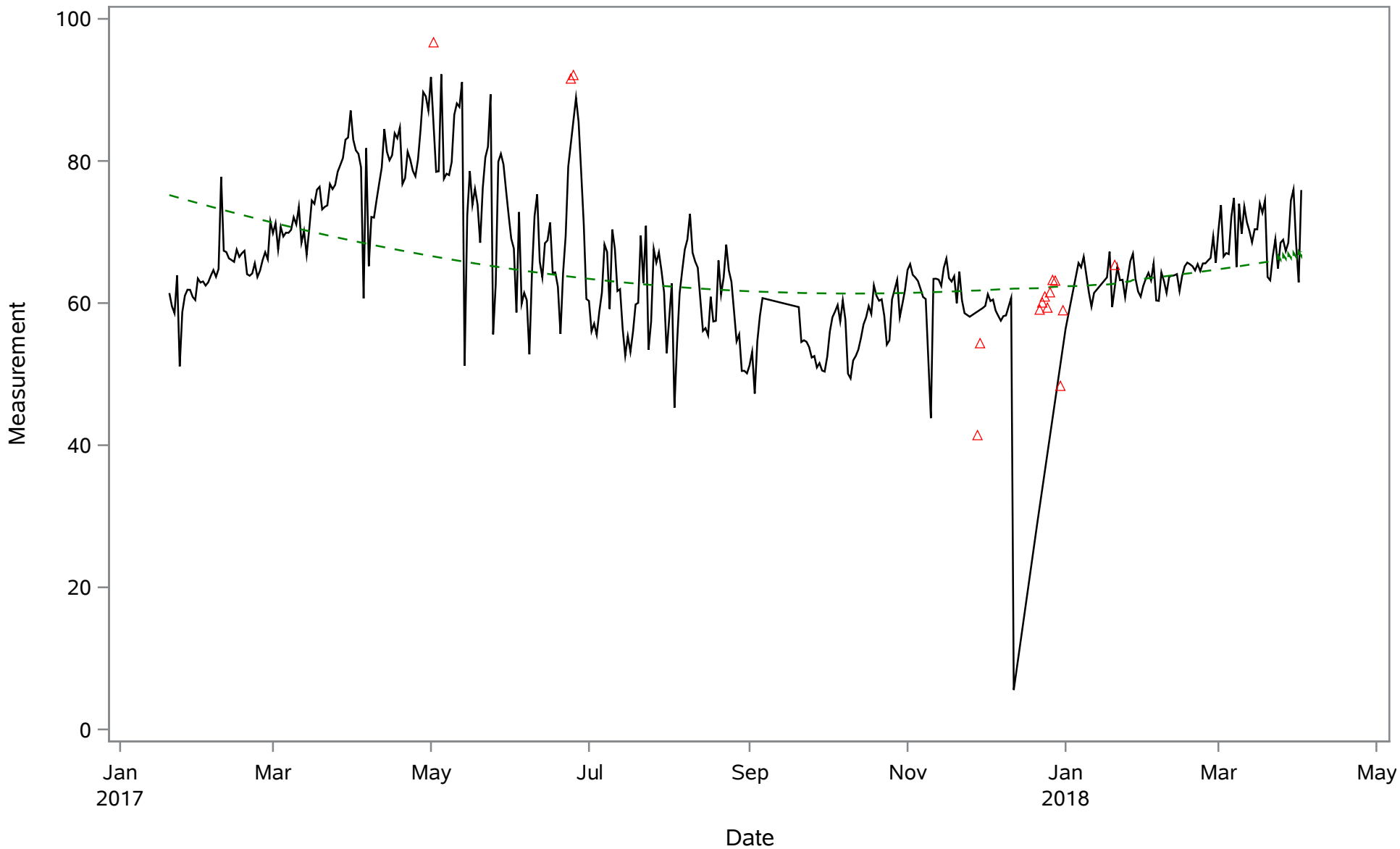


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily DO_PCT

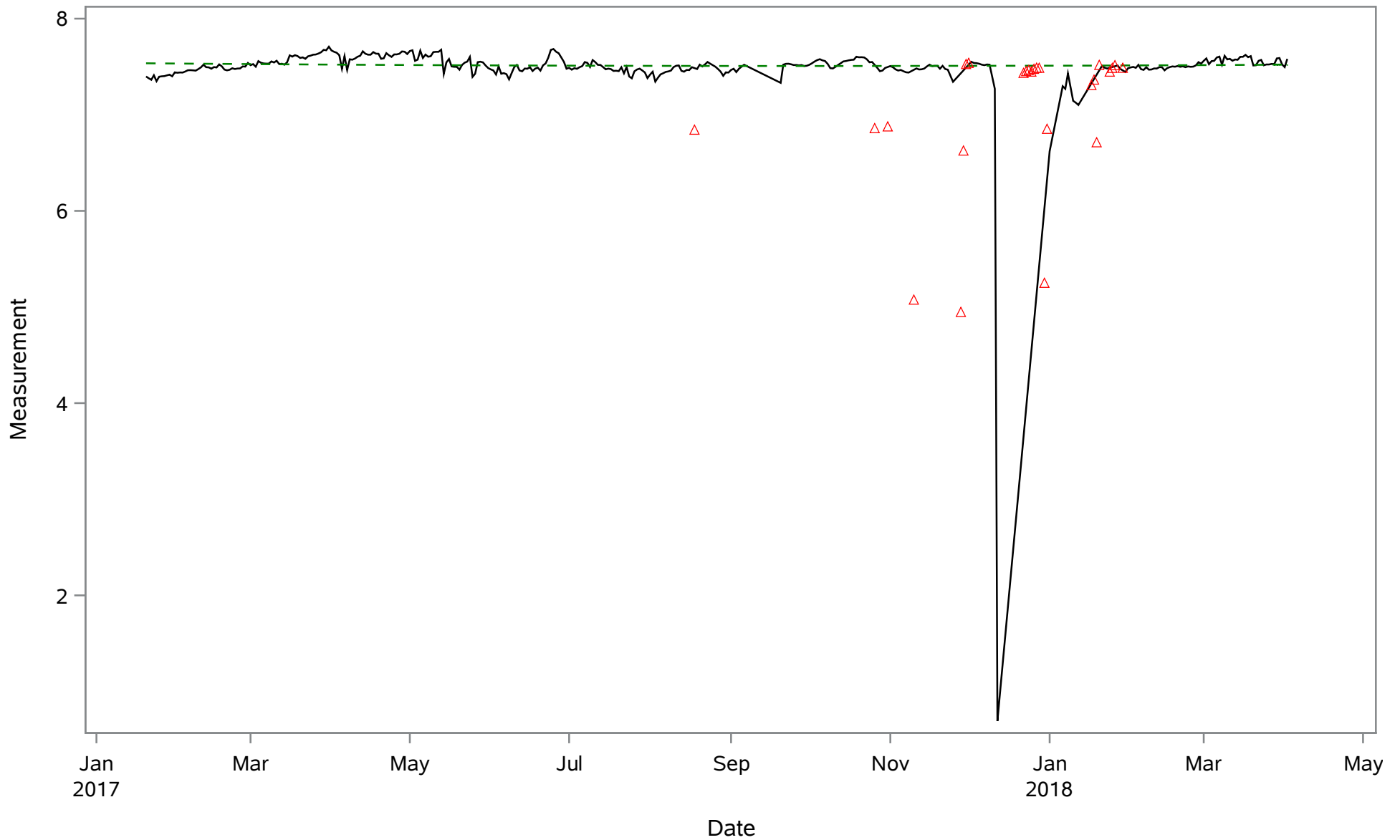


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily PH

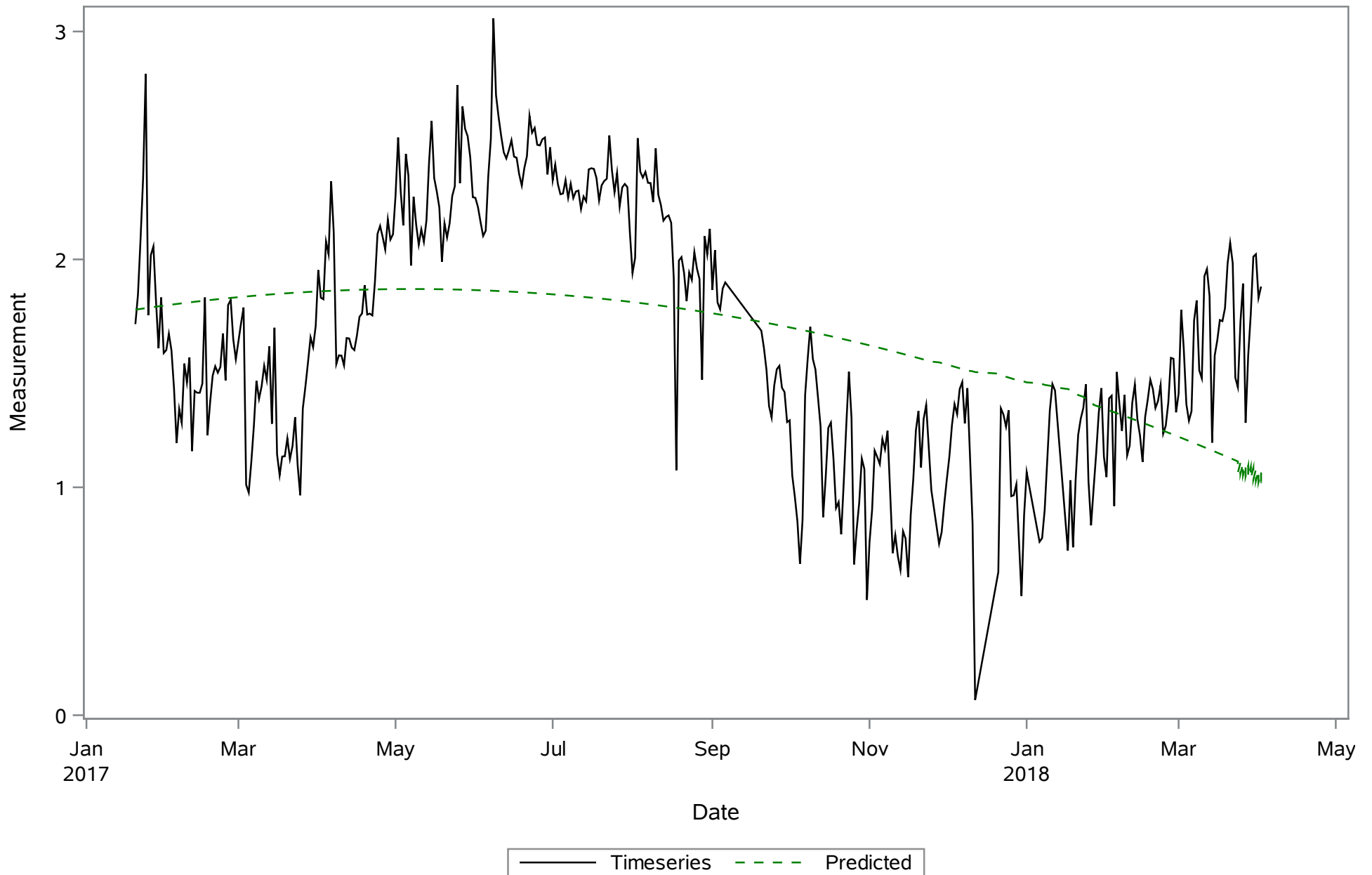


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

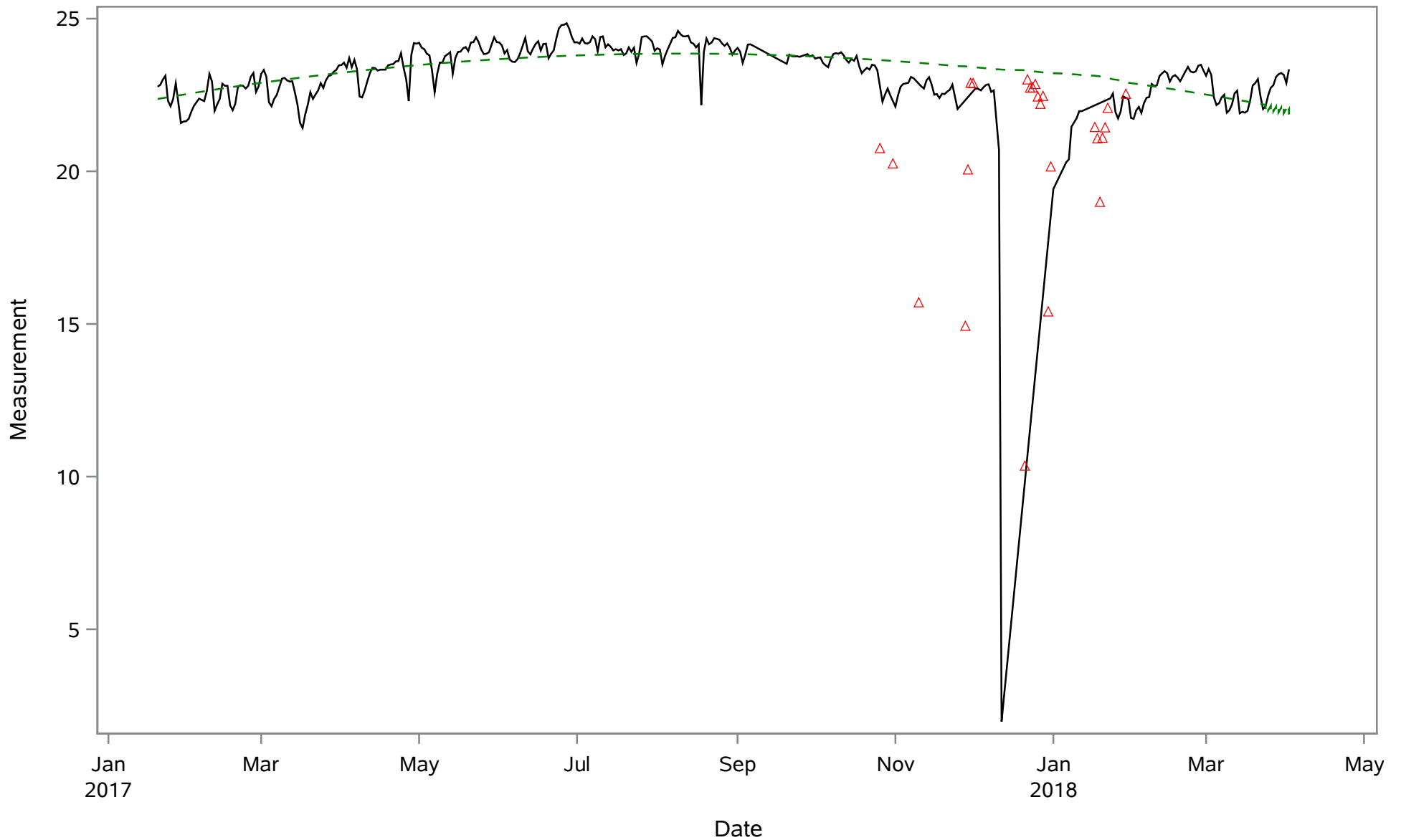
Daily SAL_PPT



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily TEMP_C

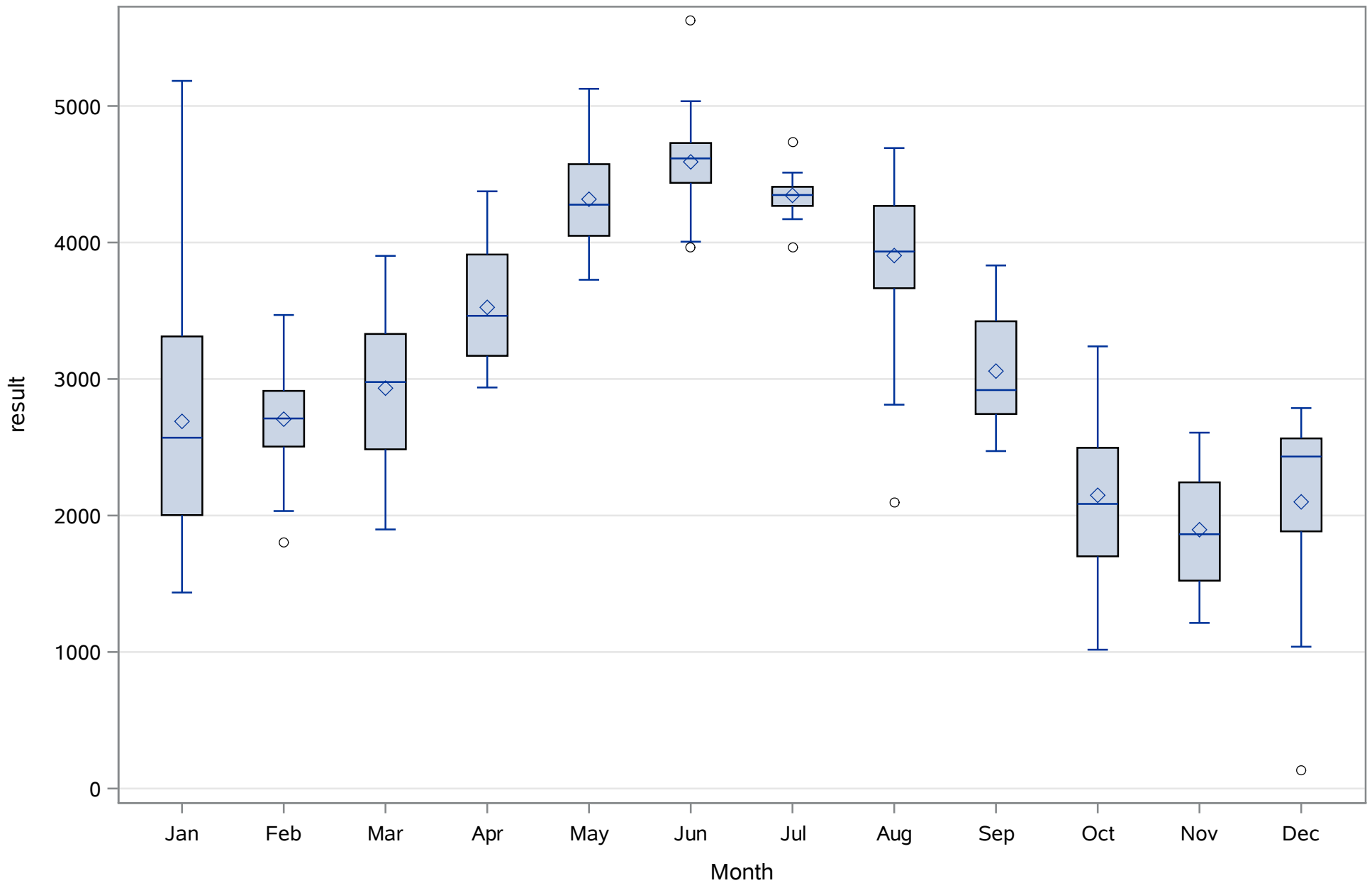


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

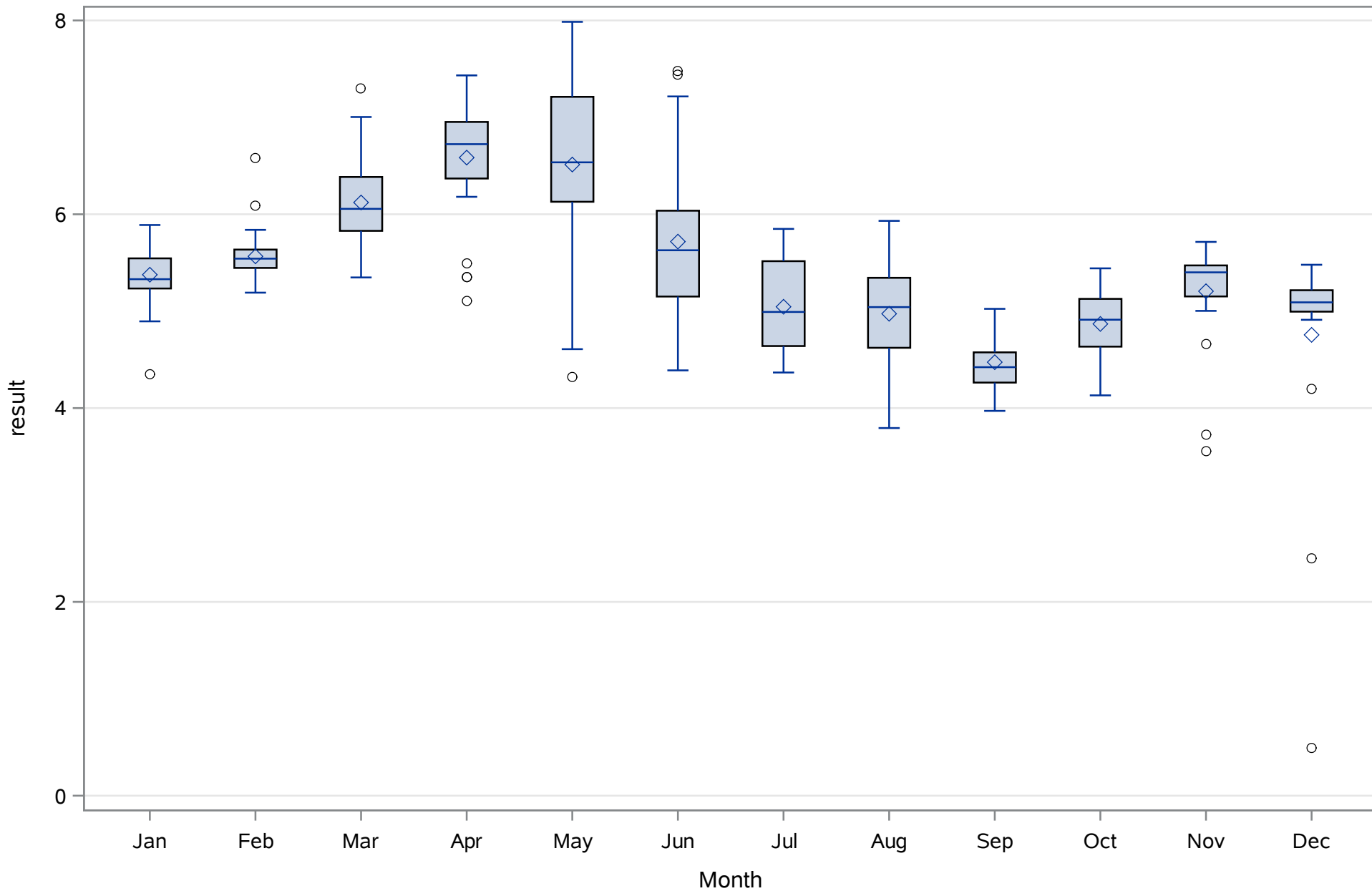
Daily COND



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

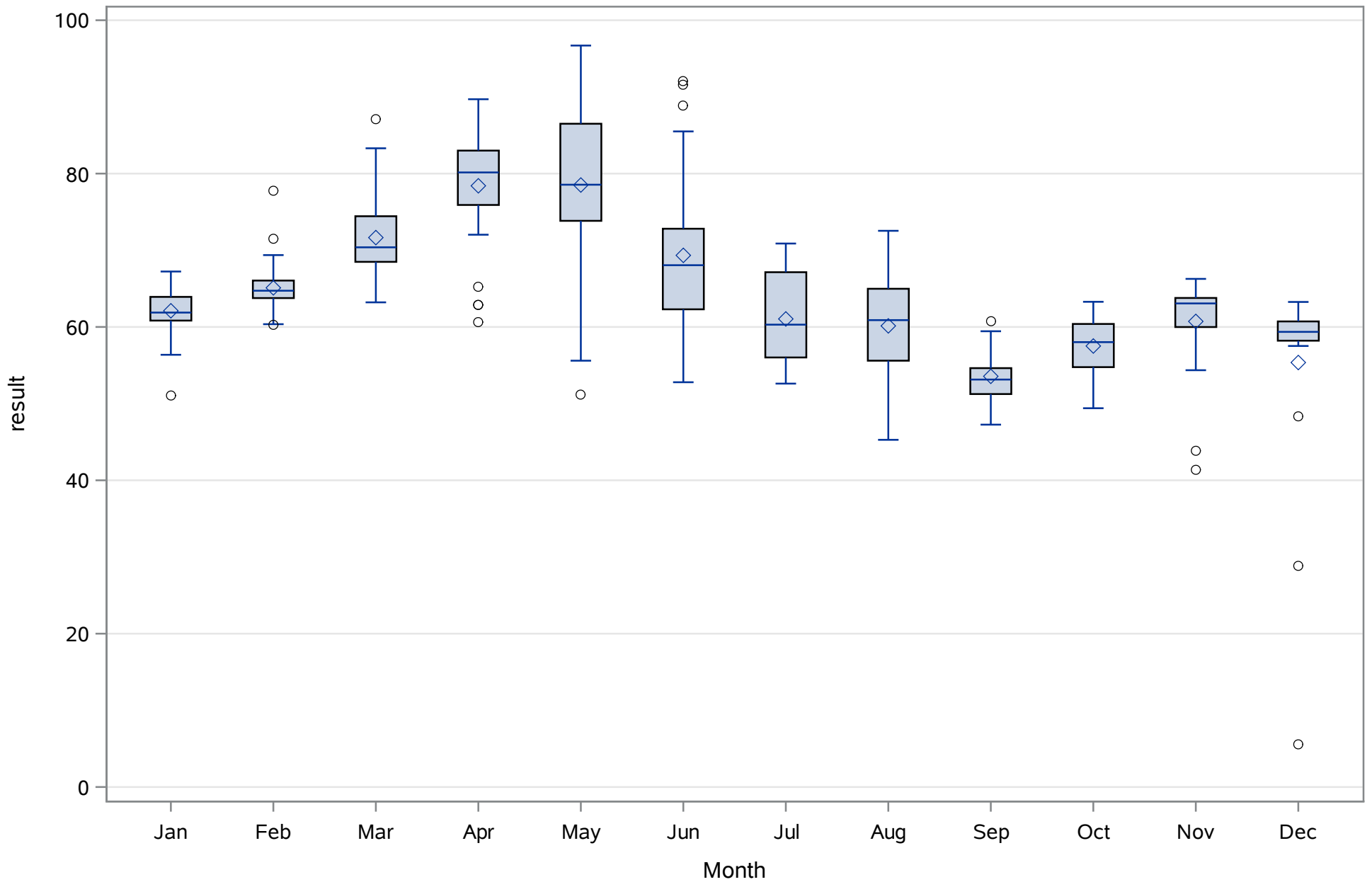
Daily DO_MGL



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

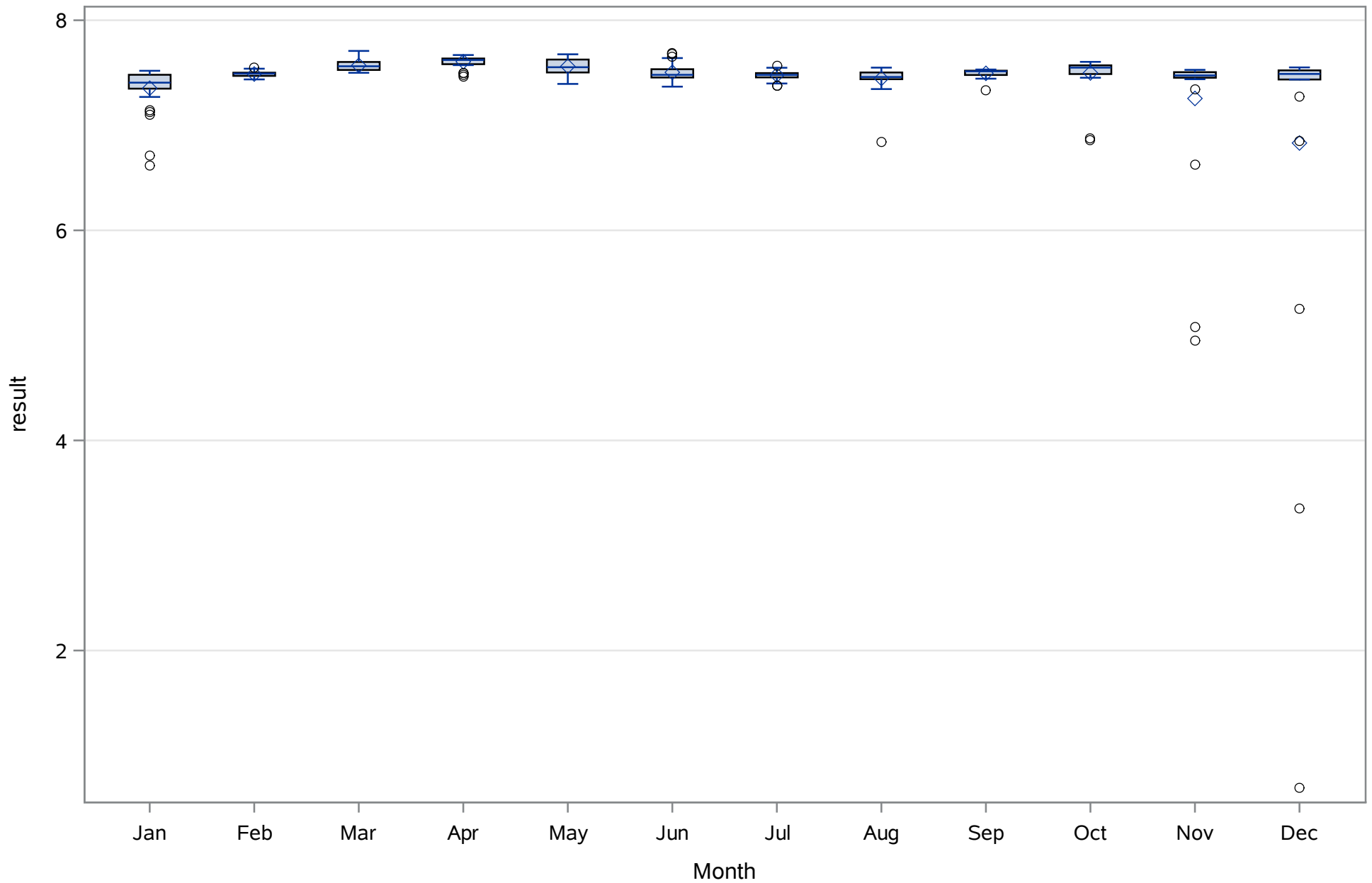
Daily DO_PCT



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

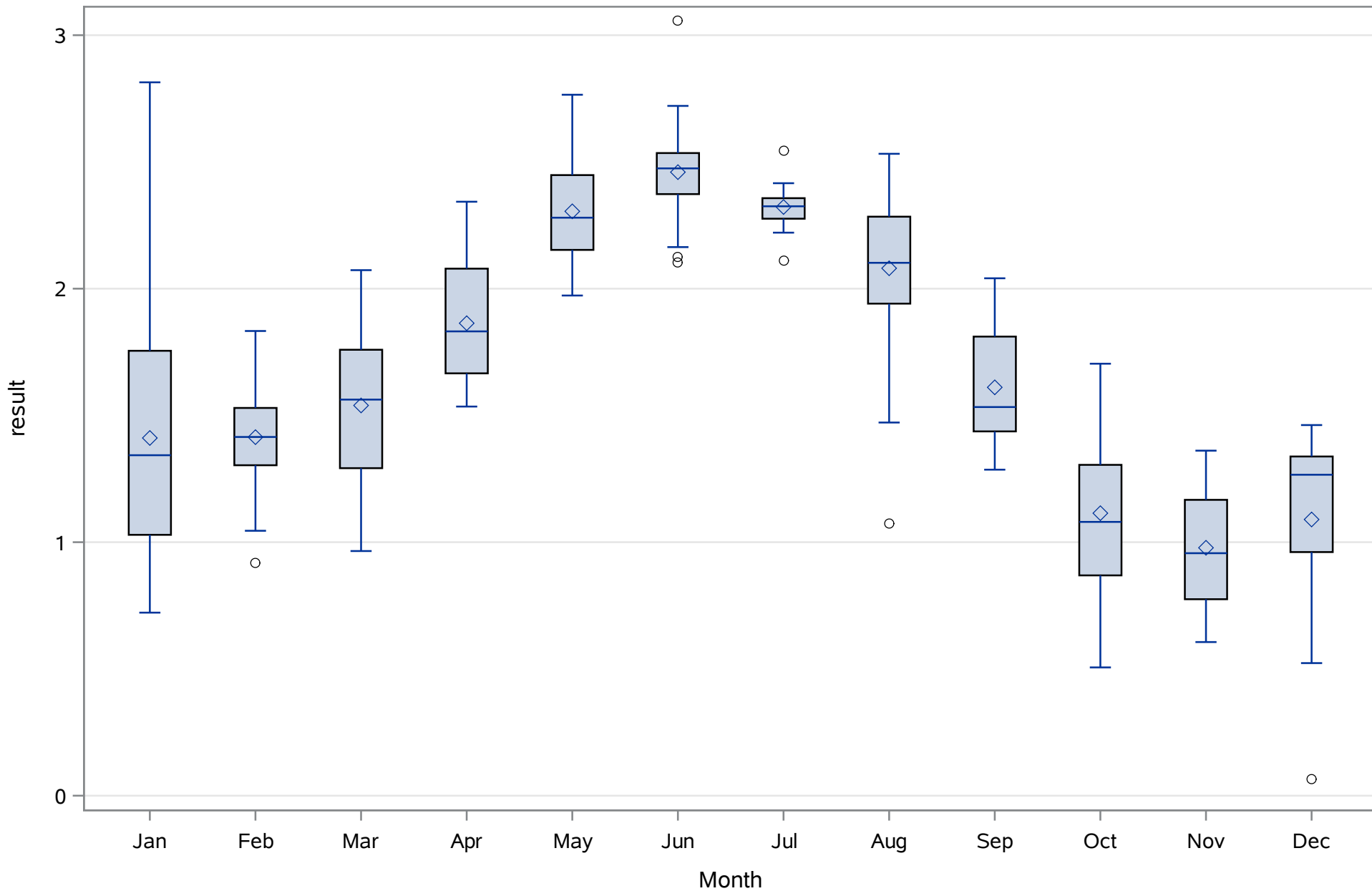
Daily PH



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

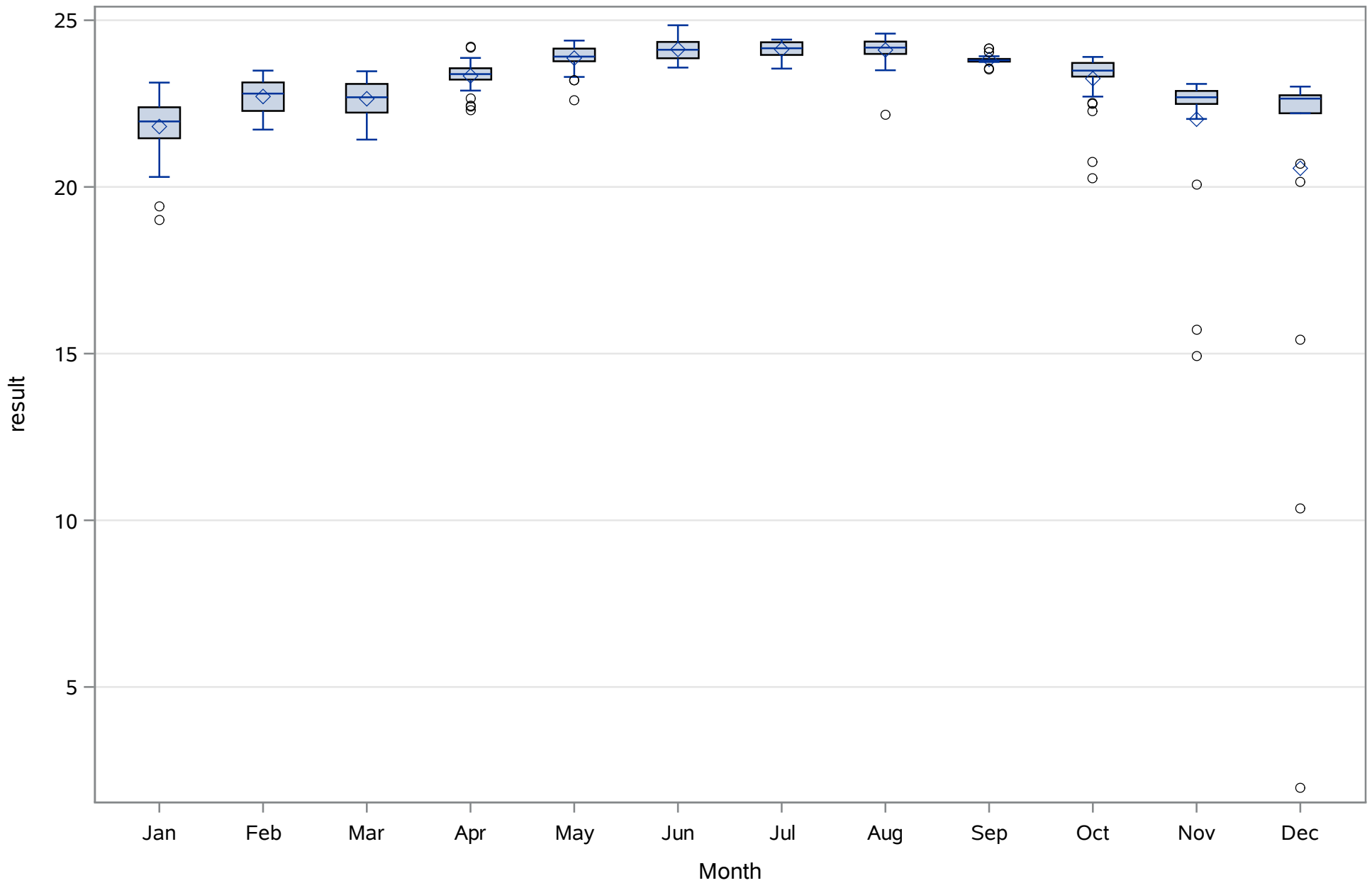
Daily SAL_PPT



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Daily TEMP_C



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly

Parameter	UNITS	First Sample	Most Recent Sample	Number of Samples	Percent Robust Regression Outlier	Percent Outside the 1st and 99th Percentile	Percent Greater/Less than 3 Standard Deviations
COND		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
DEPTH_CORRECTED		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
DEPTH_M		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
DO_MGL		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
DO_PCT		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
PH		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
PH_mV		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
SAL_PPT		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
TEMP_C		OCT2017	APR2018	3413	0.0%	0.0%	0.0%
TEMP_F		OCT2017	APR2018	3413	0.0%	0.0%	0.0%

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly COND

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	2566.57284	Sum Observations	8759713.1
Std Deviation	1506.95237	Variance	2270905.46
Skewness	1.21083132	Kurtosis	0.18892773
Uncorrected SS	3.02308E10	Corrected SS	7748329426
Coeff Variation	58.7145766	Std Error Mean	25.7947536

Basic Statistical Measures			
Location		Variability	
Mean	2566.573	Std Deviation	1507
Median	1833.970	Variance	2270905
Mode	2305.120	Range	6705
		Interquartile Range	1891

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	99.4998	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	7680.55
99%	6688.83
95%	5738.03
90%	5114.67
75% Q3	3467.37
50% Median	1833.97
25% Q1	1575.96
10%	1302.15
5%	1153.63
1%	1063.66
0% Min	975.86

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
COND

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
975.86	359	7598.71	3307
987.25	14	7673.38	3406
991.90	13	7673.38	3407
997.76	15	7680.55	2904
1000.71	26	7680.55	2905

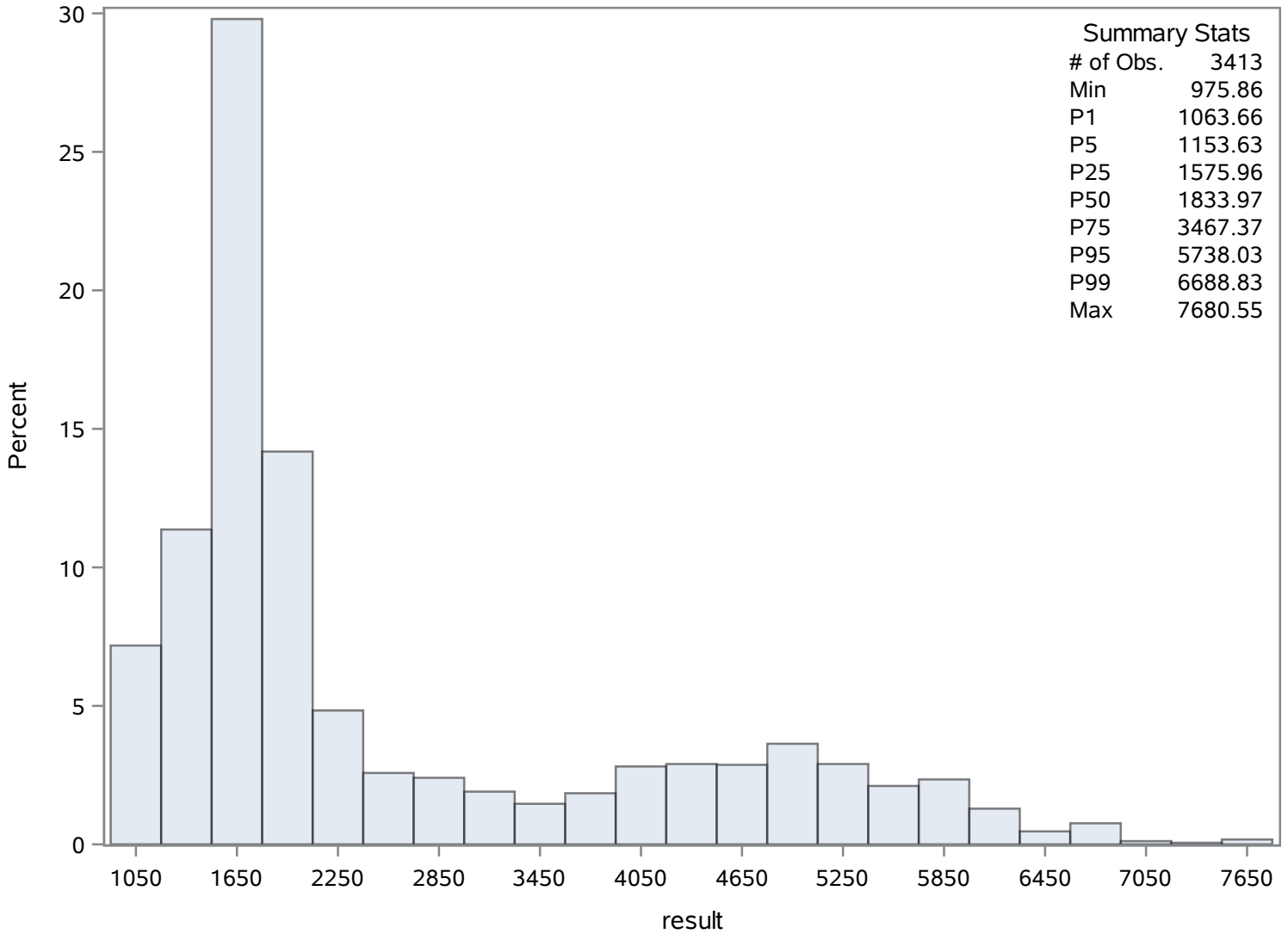
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly COND

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly

DEPTH_CORRECTED

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	1.7758787	Sum Observations	6061.074
Std Deviation	0.53566269	Variance	0.28693452
Skewness	0.28977087	Kurtosis	-0.5992138
Uncorrected SS	11742.7528	Corrected SS	979.020568
Coeff Variation	30.1632476	Std Error Mean	0.00916903

Basic Statistical Measures			
Location		Variability	
Mean	1.775879	Std Deviation	0.53566
Median	1.706000	Variance	0.28693
Mode	1.443000	Range	2.95200
		Interquartile Range	0.78700

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	193.6823	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	3.346
99%	3.018
95%	2.690
90%	2.526
75% Q3	2.165
50% Median	1.706
25% Q1	1.378
10%	1.115
5%	1.017
1%	0.722
0% Min	0.394

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DEPTH_CORRECTED

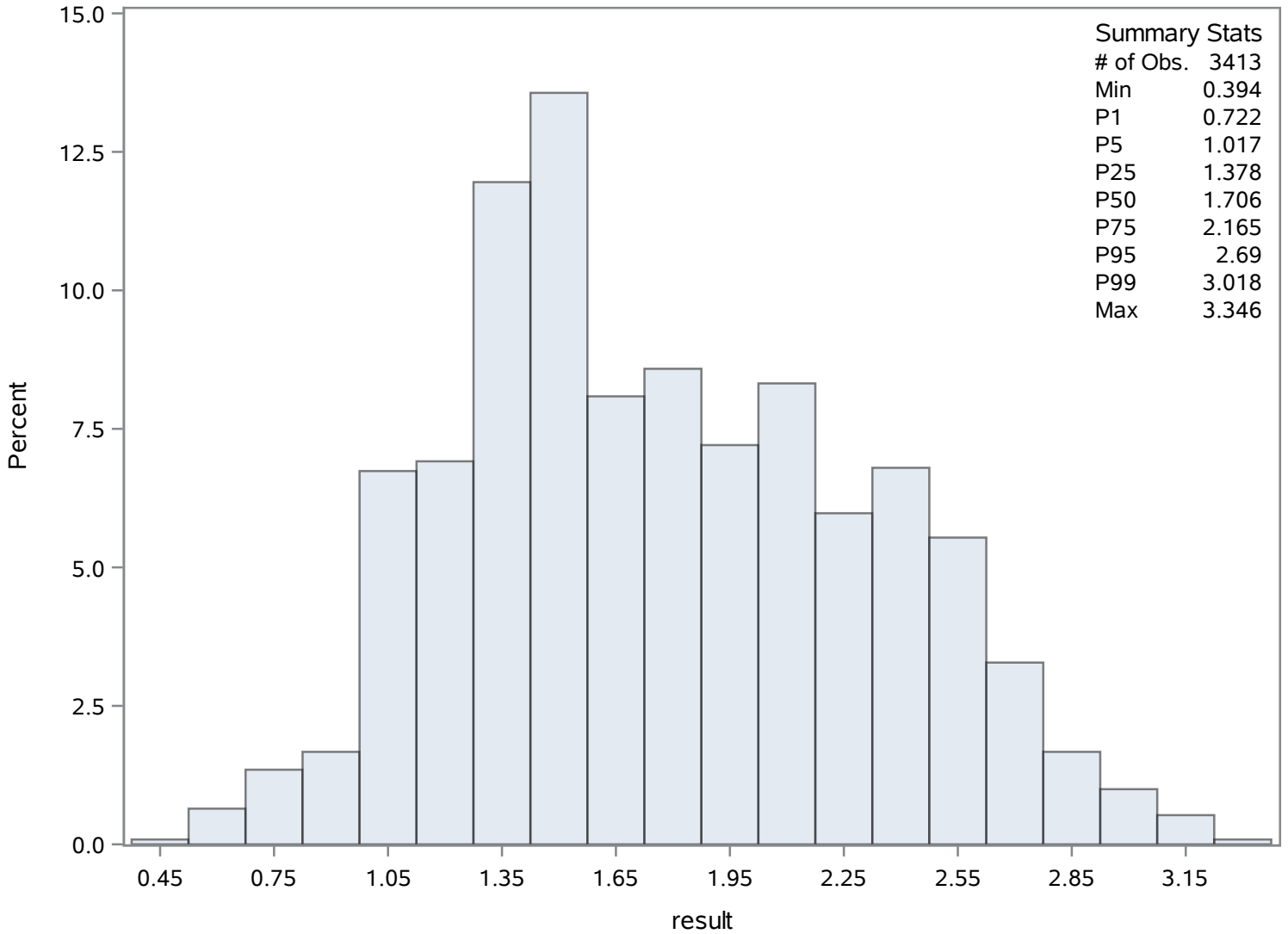
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.394	5541	3.214	4710
0.394	5540	3.214	4836
0.459	5539	3.280	4735
0.525	5552	3.313	4736
0.525	5551	3.346	4835

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DEPTH_CORRECTED

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly

DEPTH_M

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	0.5414269	Sum Observations	1847.89
Std Deviation	0.16331285	Variance	0.02667109
Skewness	0.28970398	Kurtosis	-0.5992938
Uncorrected SS	1091.4991	Corrected SS	91.001751
Coeff Variation	30.1634169	Std Error Mean	0.00279545

Basic Statistical Measures			
Location		Variability	
Mean	0.541427	Std Deviation	0.16331
Median	0.520000	Variance	0.02667
Mode	0.440000	Range	0.90000
		Interquartile Range	0.24000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	193.6813	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	1.02
99%	0.92
95%	0.82
90%	0.77
75% Q3	0.66
50% Median	0.52
25% Q1	0.42
10%	0.34
5%	0.31
1%	0.22
0% Min	0.12

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DEPTH_M

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.12	8954	0.98	8123
0.12	8953	0.98	8249
0.14	8952	1.00	8148
0.16	8965	1.01	8149
0.16	8964	1.02	8248

Chassahowitzka River - Continuous Recorder

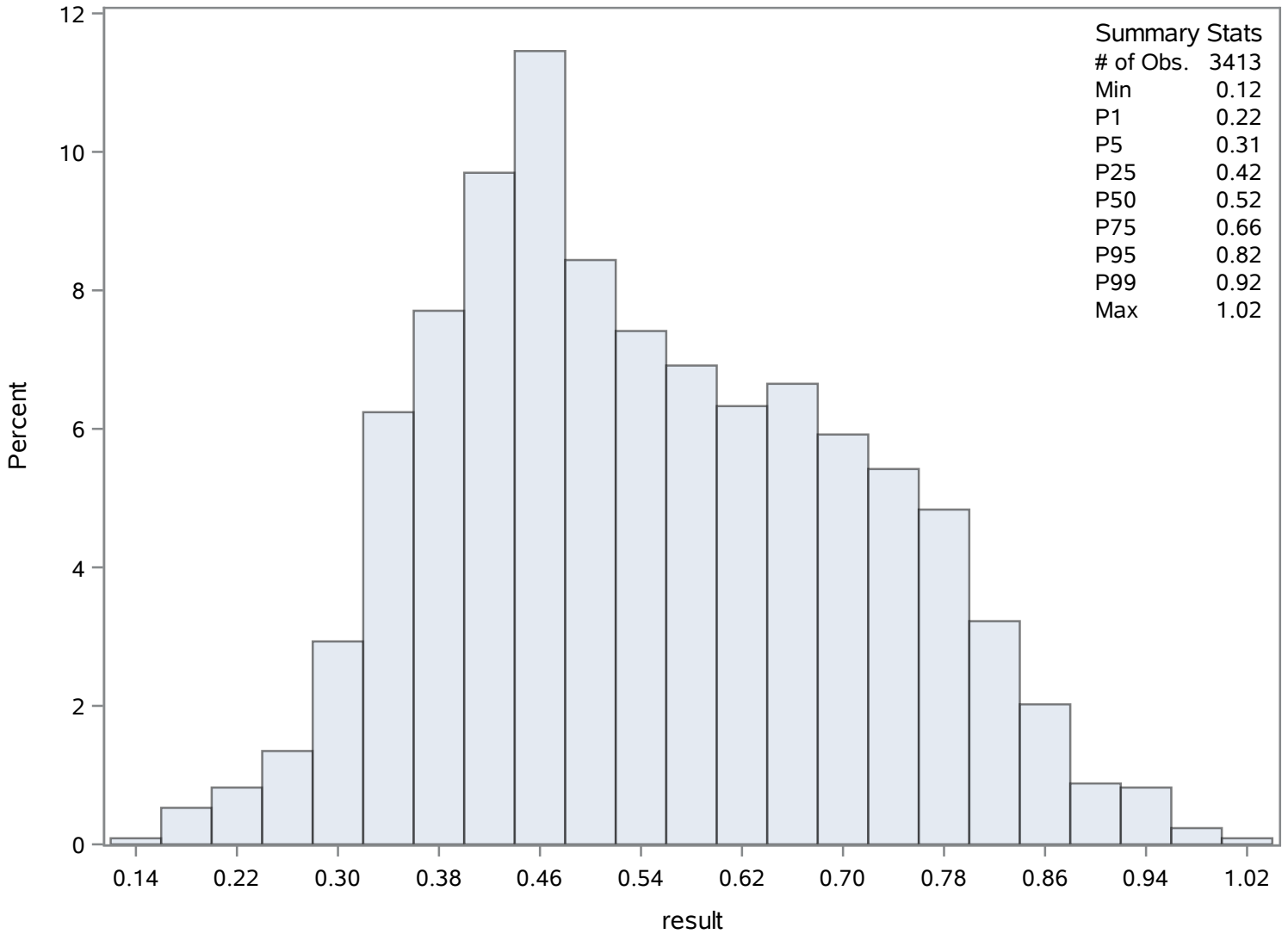
Source: Continuous Recorder

Hourly

DEPTH_M

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly DO_MGL

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	5.58200996	Sum Observations	19051.4
Std Deviation	1.09166079	Variance	1.19172327
Skewness	1.49037875	Kurtosis	4.59928631
Uncorrected SS	110411.264	Corrected SS	4066.15981
Coeff Variation	19.5567689	Std Error Mean	0.01868614

Basic Statistical Measures			
Location		Variability	
Mean	5.582010	Std Deviation	1.09166
Median	5.410000	Variance	1.19172
Mode	5.190000	Range	8.60000
		Interquartile Range	1.22000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	298.7246	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	11.73
99%	9.72
95%	7.32
90%	6.74
75% Q3	6.13
50% Median	5.41
25% Q1	4.91
10%	4.40
5%	4.14
1%	3.59
0% Min	3.13

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DO_MGL

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.13	13544	11.28	13472
3.13	13543	11.62	13423
3.27	13546	11.62	13424
3.27	13545	11.73	13473
3.27	13072	11.73	13474

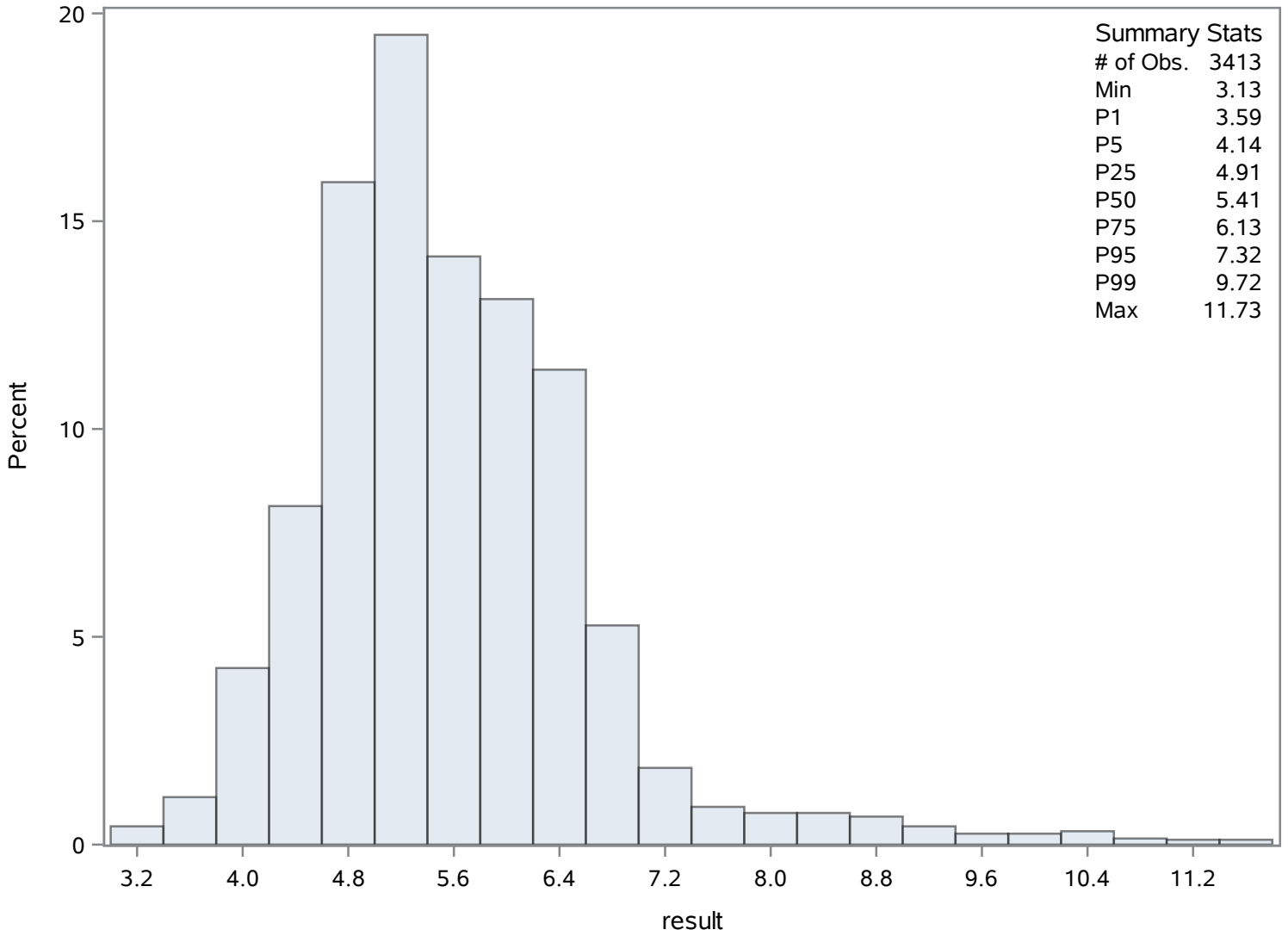
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly DO_MGL

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly DO_PCT

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	65.10385	Sum Observations	222199.44
Std Deviation	13.2636394	Variance	175.92413
Skewness	1.76940879	Kurtosis	5.70327126
Uncorrected SS	15066292.1	Corrected SS	600253.133
Coeff Variation	20.3730492	Std Error Mean	0.22703591

Basic Statistical Measures			
Location		Variability	
Mean	65.10385	Std Deviation	13.26364
Median	62.43000	Variance	175.92413
Mode	53.72000	Range	106.11000
		Interquartile Range	14.37000

Note: The mode displayed is the smallest of 6 modes with a count of 7.

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	286.7557	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	143.40
99%	116.00
95%	87.10
90%	78.79
75% Q3	71.23
50% Median	62.43
25% Q1	56.86
10%	51.70
5%	48.78

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly

DO_PCT

The UNIVARIATE Procedure
Variable: result

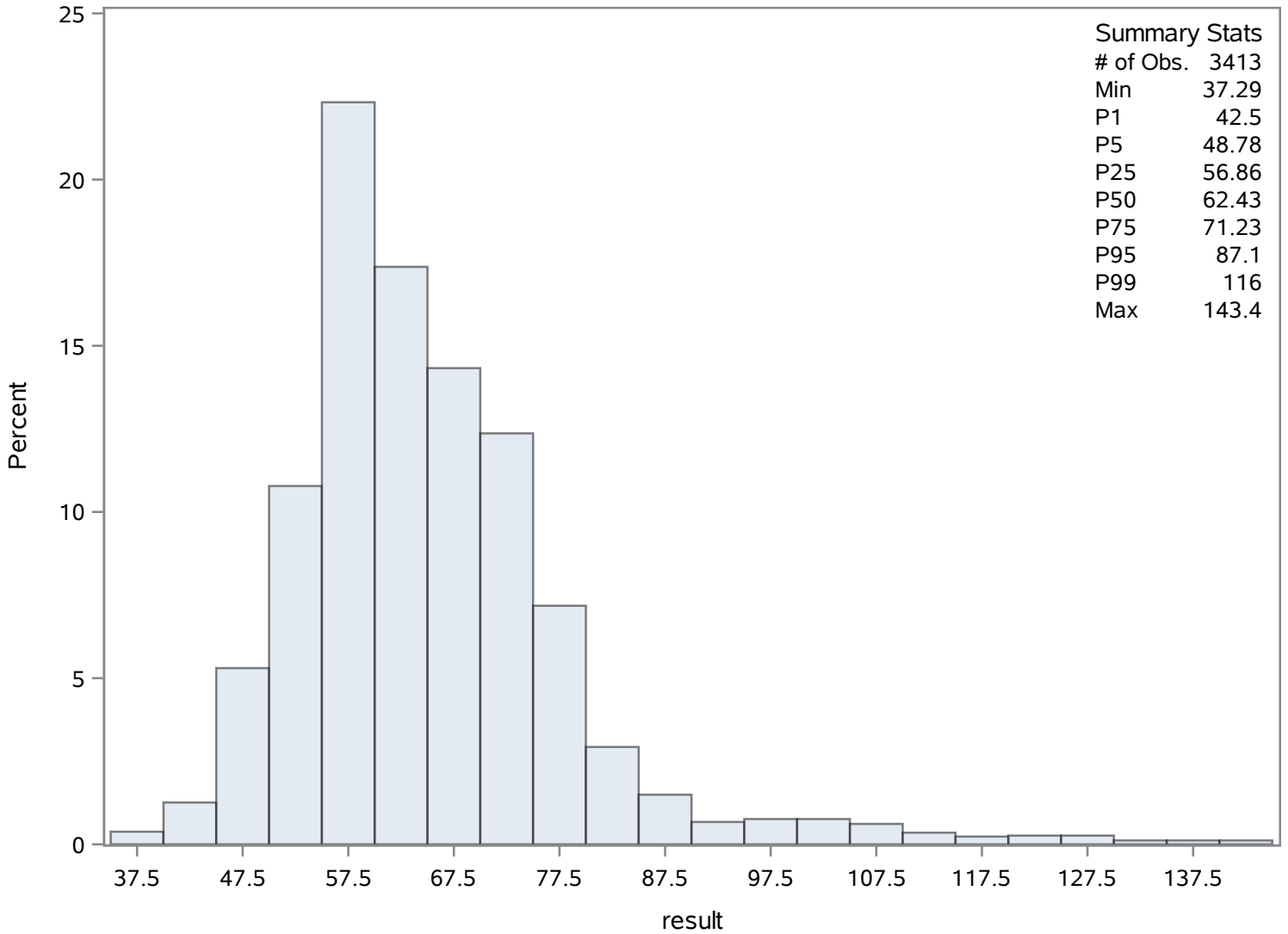
Quantiles (Definition 5)	
Level	Quantile
1%	42.50
0% Min	37.29

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
37.29	16957	137.1	16885
37.29	16956	142.5	16836
38.46	16485	142.5	16837
38.46	16484	143.4	16886
39.01	17009	143.4	16887

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DO_PCT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly PH

The UNIVARIATE Procedure Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	7.513138	Sum Observations	25642.34
Std Deviation	0.09551043	Variance	0.00912224
Skewness	0.98004758	Kurtosis	4.63233992
Uncorrected SS	192685.564	Corrected SS	31.125092
Coeff Variation	1.27124555	Std Error Mean	0.00163487

Basic Statistical Measures			
Location		Variability	
Mean	7.513138	Std Deviation	0.09551
Median	7.510000	Variance	0.00912
Mode	7.520000	Range	0.85000
		Interquartile Range	0.09000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	4595.563	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	8.10
99%	7.85
95%	7.65
90%	7.61
75% Q3	7.56
50% Median	7.51
25% Q1	7.47
10%	7.39
5%	7.35
1%	7.32
0% Min	7.25

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
PH

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.25	19530	8.03	20298
7.26	20366	8.08	20247
7.26	20365	8.08	20248
7.29	20370	8.10	20249
7.29	20369	8.10	20250

Chassahowitzka River - Continuous Recorder

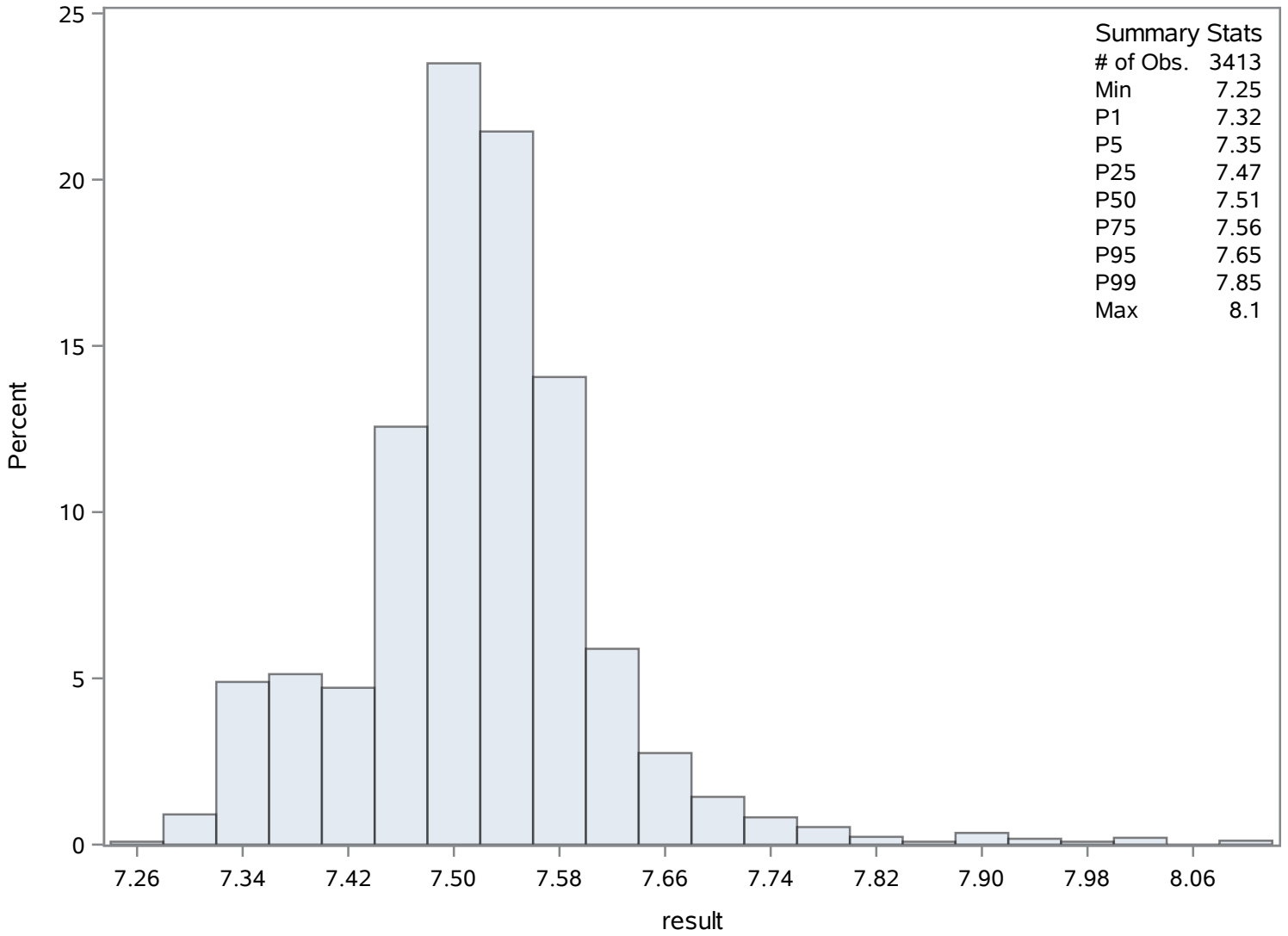
Source: Continuous Recorder

Hourly

PH

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly PH_mV

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	-60.849268	Sum Observations	-207678.55
Std Deviation	19.5049855	Variance	380.444461
Skewness	2.55065837	Kurtosis	5.38703698
Uncorrected SS	13935164.1	Corrected SS	1298076.5
Coeff Variation	-32.054594	Std Error Mean	0.33387007

Basic Statistical Measures			
Location		Variability	
Mean	-60.8493	Std Deviation	19.50499
Median	-66.2600	Variance	380.44446
Mode	0.0000	Range	102.10000
		Interquartile Range	5.91000

Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	-182.254	Pr > t 	<.0001
Sign	M	-1557.5	Pr >= M 	<.0001
Signed Rank	S	-2426585	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	0.00
99%	0.00
95%	0.00
90%	-55.77
75% Q3	-62.94
50% Median	-66.26
25% Q1	-68.85
10%	-71.84
5%	-74.78
1%	-82.90
0% Min	-102.10

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
PH_mV

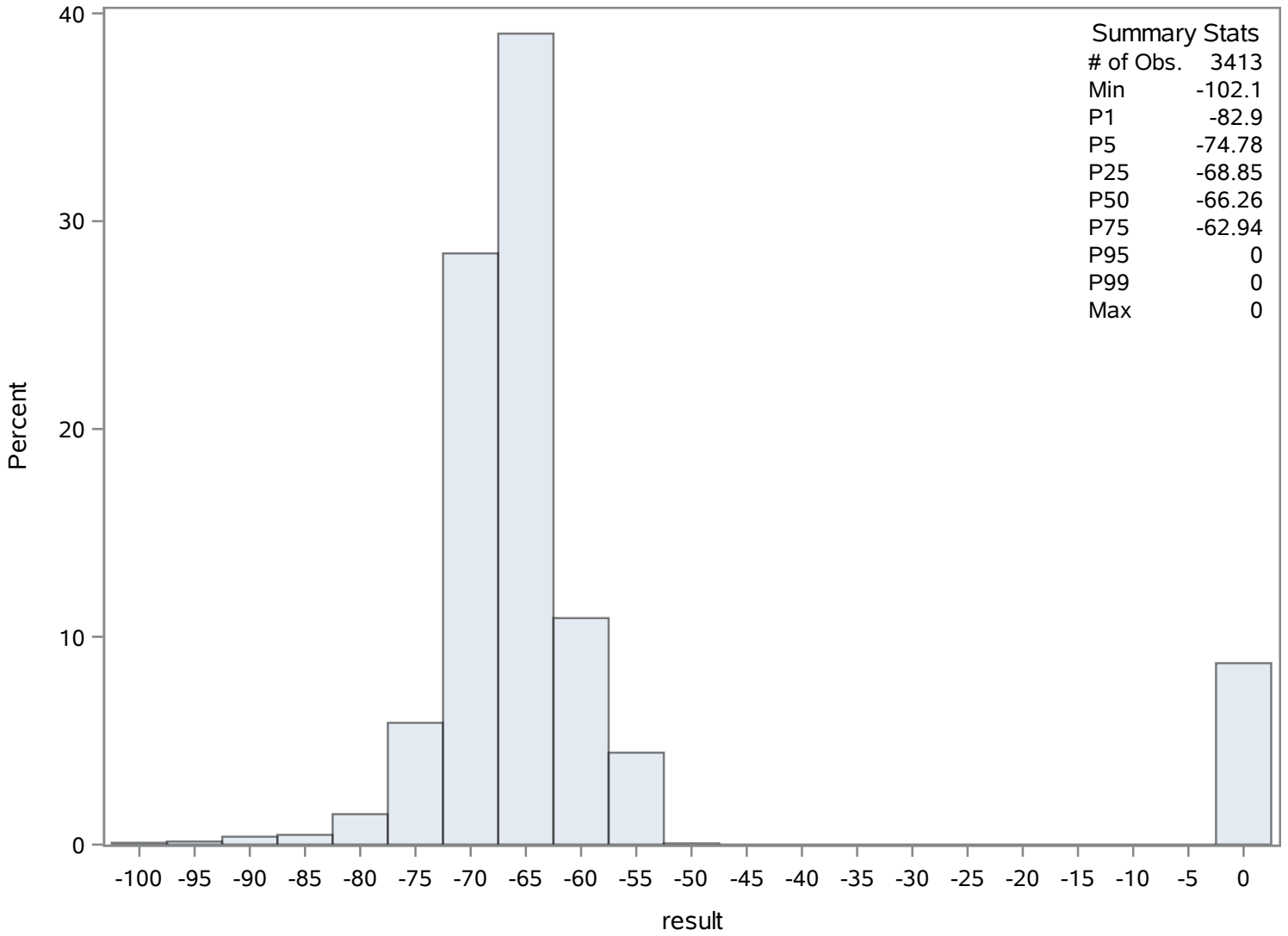
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-102.1	23777	0	21898
-101.2	23776	0	21972
-97.7	23801	0	21985
-97.1	23874	0	22050
-97.1	23802	0	22122

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
PH_mV

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly

SAL_PPT

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	1.34056548	Sum Observations	4575.35
Std Deviation	0.83525842	Variance	0.69765663
Skewness	1.24533481	Kurtosis	0.29546412
Uncorrected SS	8513.9607	Corrected SS	2380.40441
Coeff Variation	62.3064243	Std Error Mean	0.01429726

Basic Statistical Measures			
Location		Variability	
Mean	1.340565	Std Deviation	0.83526
Median	0.930000	Variance	0.69766
Mode	0.820000	Range	3.77000
		Interquartile Range	1.03000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	93.76383	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	4.25
99%	3.66
95%	3.11
90%	2.75
75% Q3	1.82
50% Median	0.93
25% Q1	0.79
10%	0.65
5%	0.57
1%	0.53
0% Min	0.48

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
SAL_PPT

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.48	24250	4.20	27198
0.49	23917	4.24	27297
0.49	23906	4.24	27298
0.49	23905	4.25	26795
0.49	23904	4.25	26796

Chassahowitzka River - Continuous Recorder

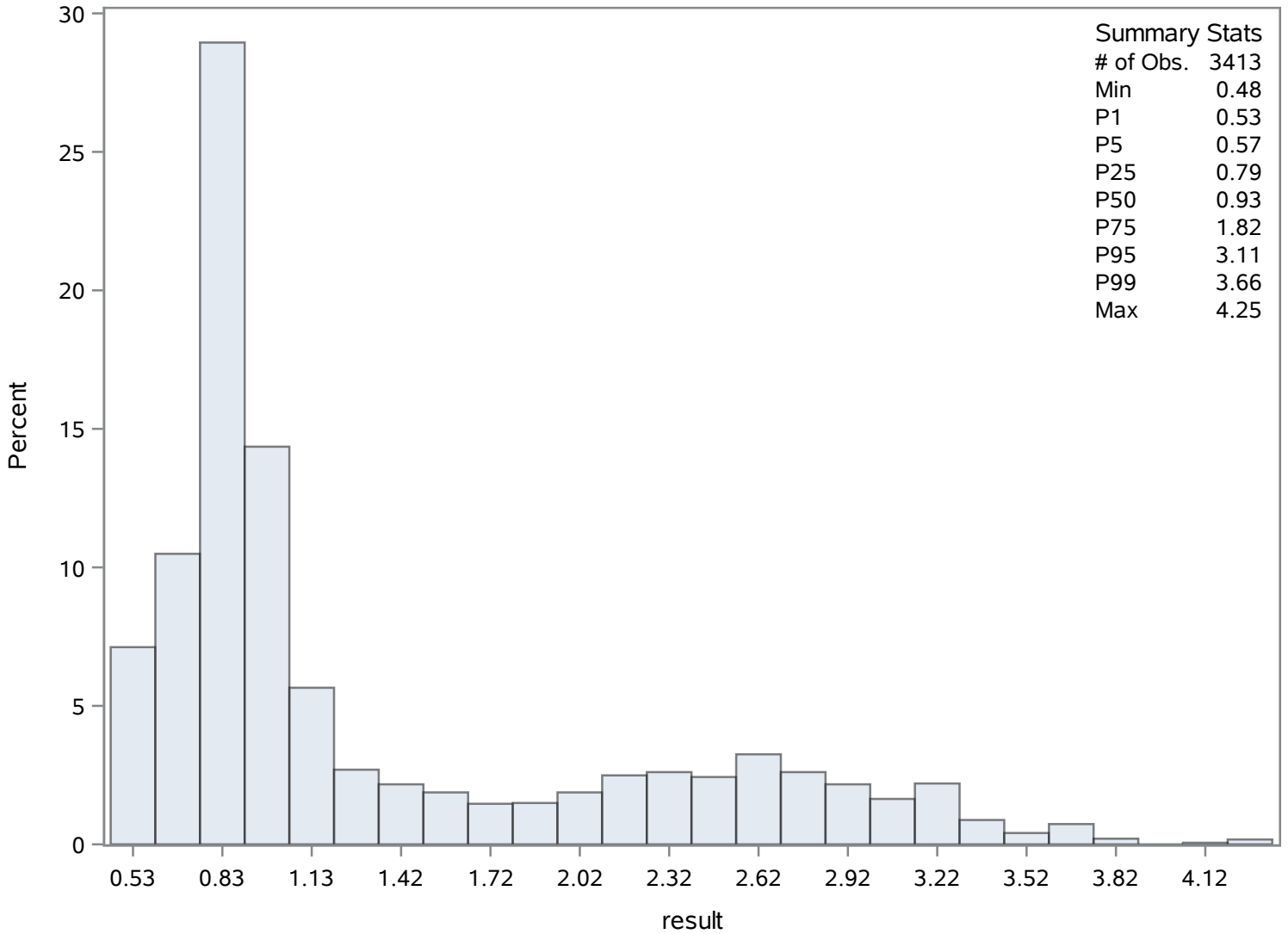
Source: Continuous Recorder

Hourly

SAL_PPT

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly TEMP_C

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	22.5809317	Sum Observations	77068.72
Std Deviation	0.70217637	Variance	0.49305165
Skewness	-0.3293821	Kurtosis	0.29526373
Uncorrected SS	1741965.8	Corrected SS	1682.29224
Coeff Variation	3.10959874	Std Error Mean	0.01201927

Basic Statistical Measures			
Location		Variability	
Mean	22.58093	Std Deviation	0.70218
Median	22.67000	Variance	0.49305
Mode	22.81000	Range	4.68000
		Interquartile Range	0.88000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	1878.728	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	24.91
99%	24.22
95%	23.62
90%	23.36
75% Q3	23.03
50% Median	22.67
25% Q1	22.15
10%	21.59
5%	21.32
1%	20.78
0% Min	20.23

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
TEMP_C

The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.23	28645	24.73	30683
20.35	28456	24.75	30684
20.39	28669	24.75	30685
20.40	28646	24.91	30488
20.41	28668	24.91	30489

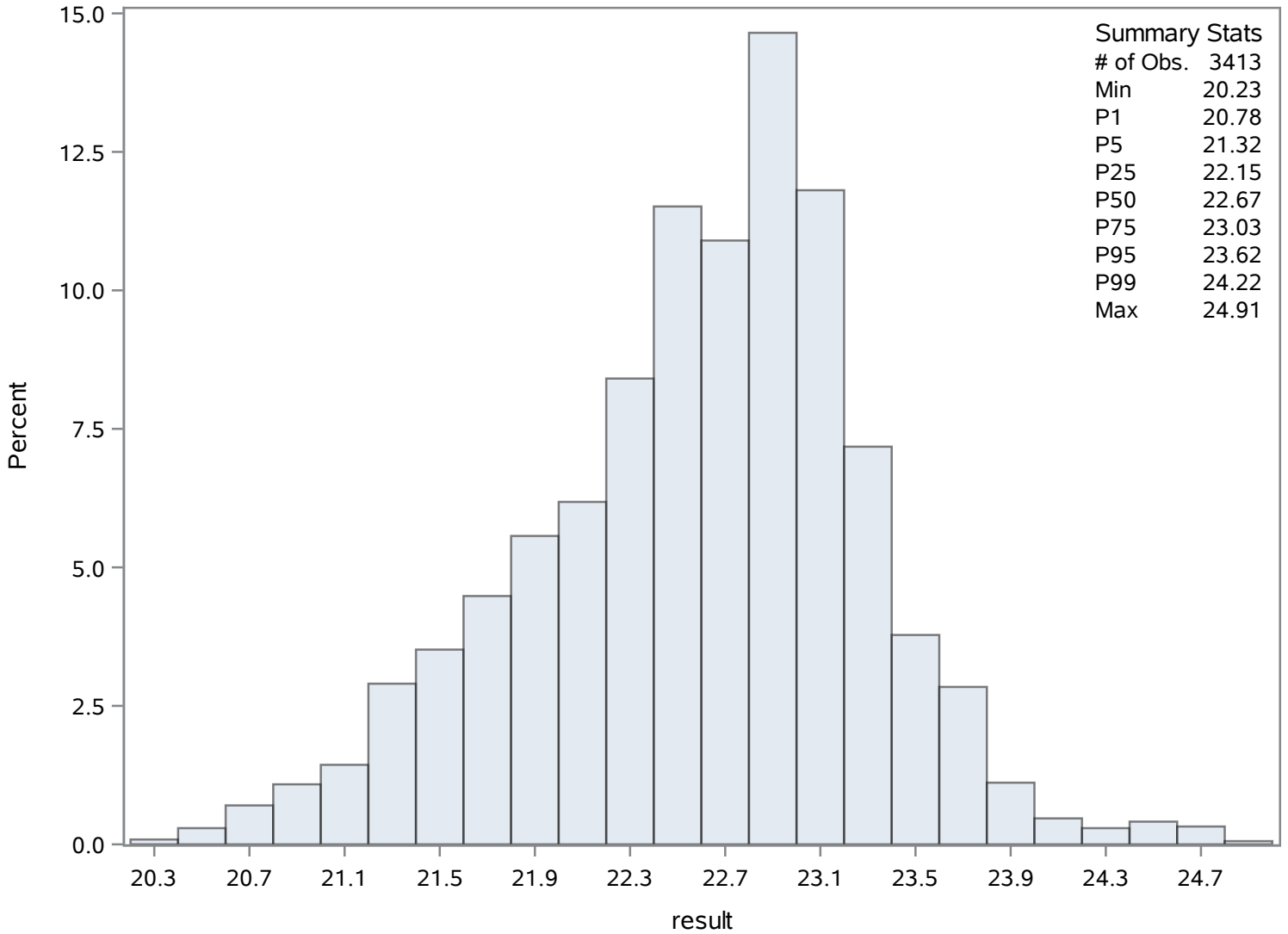
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly TEMP_C

The UNIVARIATE Procedure

Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly TEMP_F

The UNIVARIATE Procedure
Variable: result

Moments			
N	3413	Sum Weights	3413
Mean	69.0615207	Sum Observations	235706.97
Std Deviation	11.5273268	Variance	132.879262
Skewness	-2.868218	Kurtosis	6.36020815
Uncorrected SS	16731665.8	Corrected SS	453384.043
Coeff Variation	16.6913886	Std Error Mean	0.19731516

Basic Statistical Measures			
Location		Variability	
Mean	69.06152	Std Deviation	11.52733
Median	72.61000	Variance	132.87926
Mode	32.00000	Range	44.84000
		Interquartile Range	1.94000

Tests for Location: $\mu_0=0$				
Test	Statistic		p Value	
Student's t	t	350.0062	Pr > t 	<.0001
Sign	M	1706.5	Pr >= M 	<.0001
Signed Rank	S	2912996	Pr >= S 	<.0001

Quantiles (Definition 5)	
Level	Quantile
100% Max	76.84
99%	75.24
95%	74.39
90%	73.96
75% Q3	73.38
50% Median	72.61
25% Q1	71.44
10%	69.53
5%	32.00
1%	32.00
0% Min	32.00

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
TEMP_F

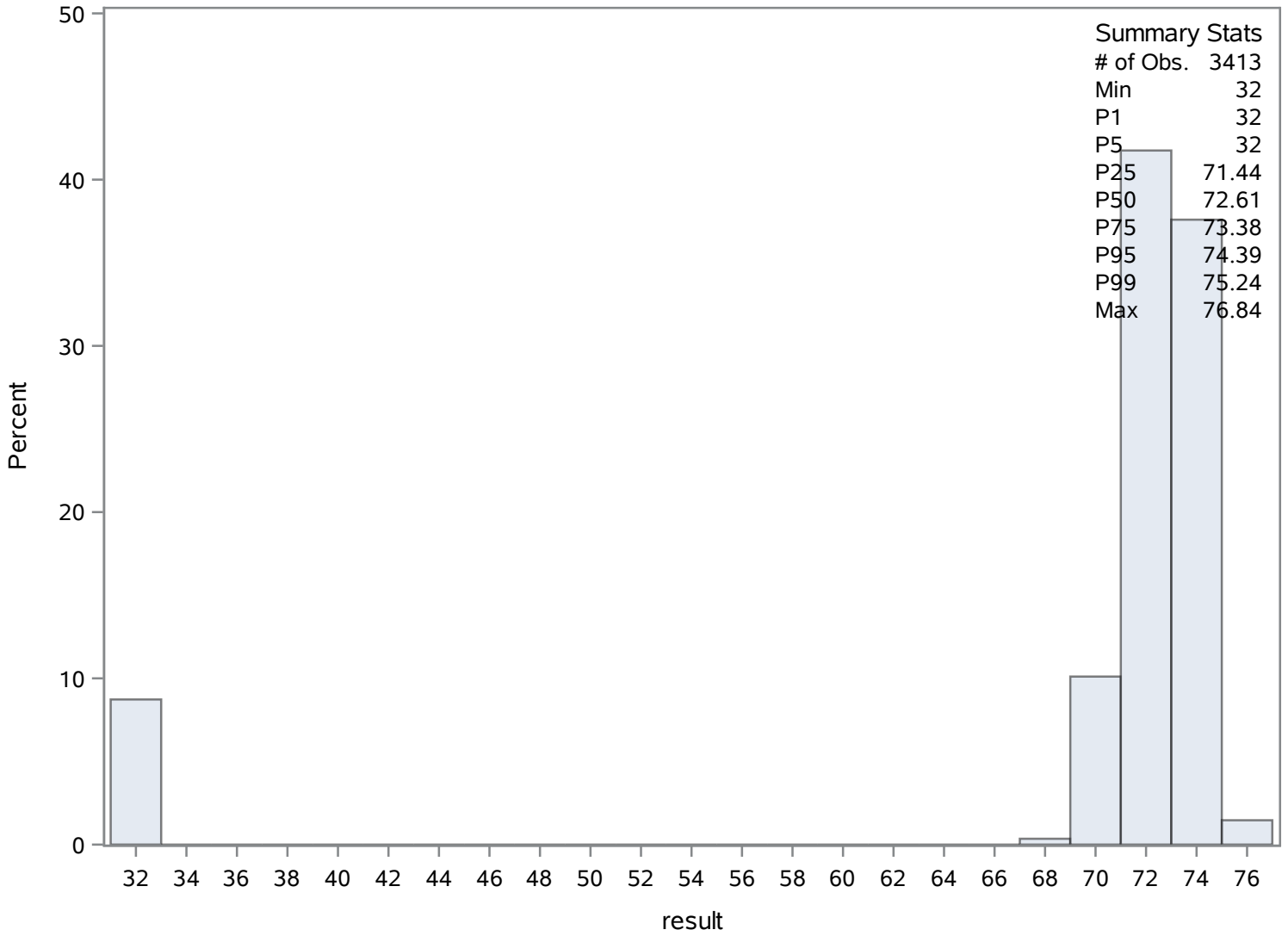
The UNIVARIATE Procedure
Variable: result

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
32	32361	76.37	33297
32	32289	76.44	34015
32	32224	76.51	34113
32	32211	76.55	34114
32	32137	76.84	34016

Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
TEMP_F

The UNIVARIATE Procedure

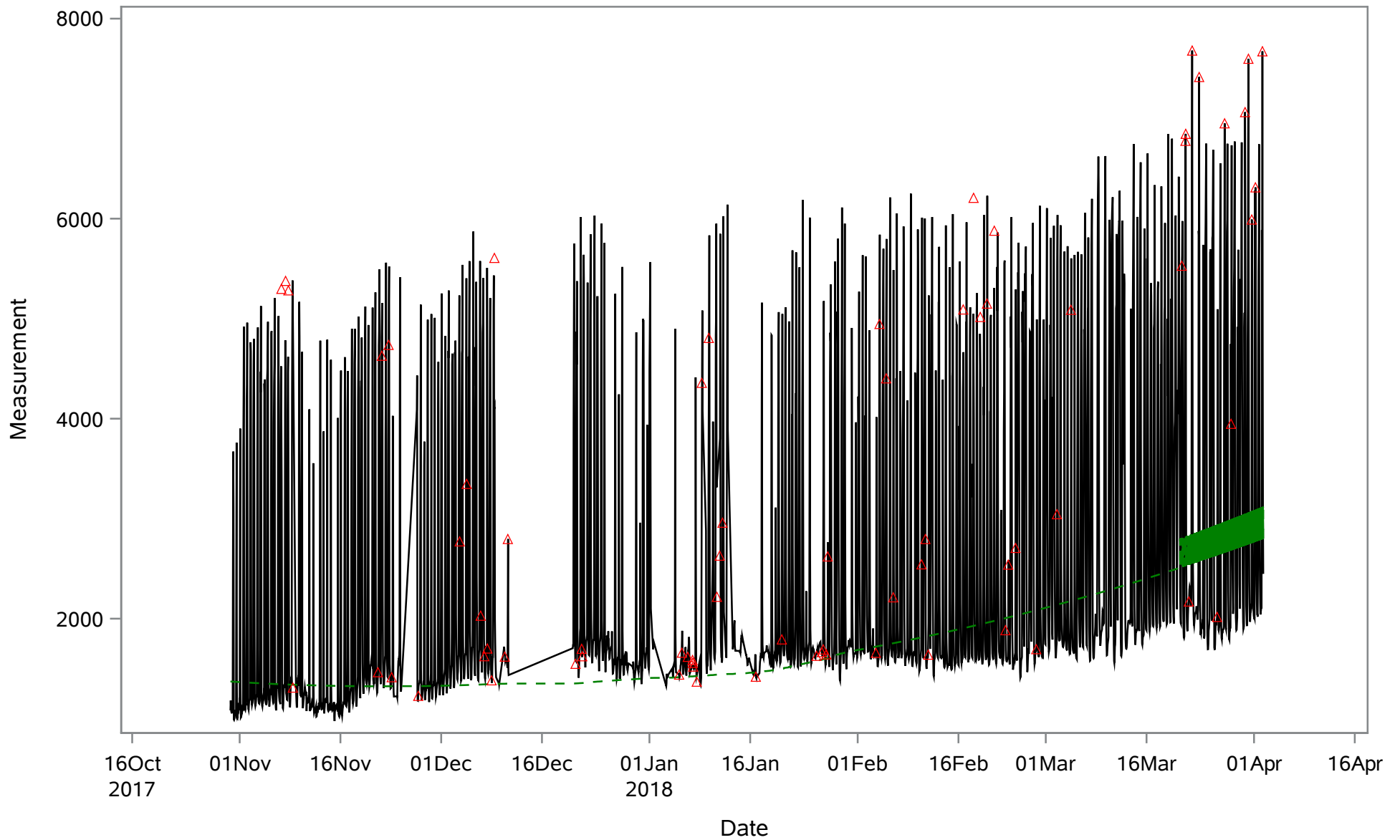
Distribution of result



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly COND

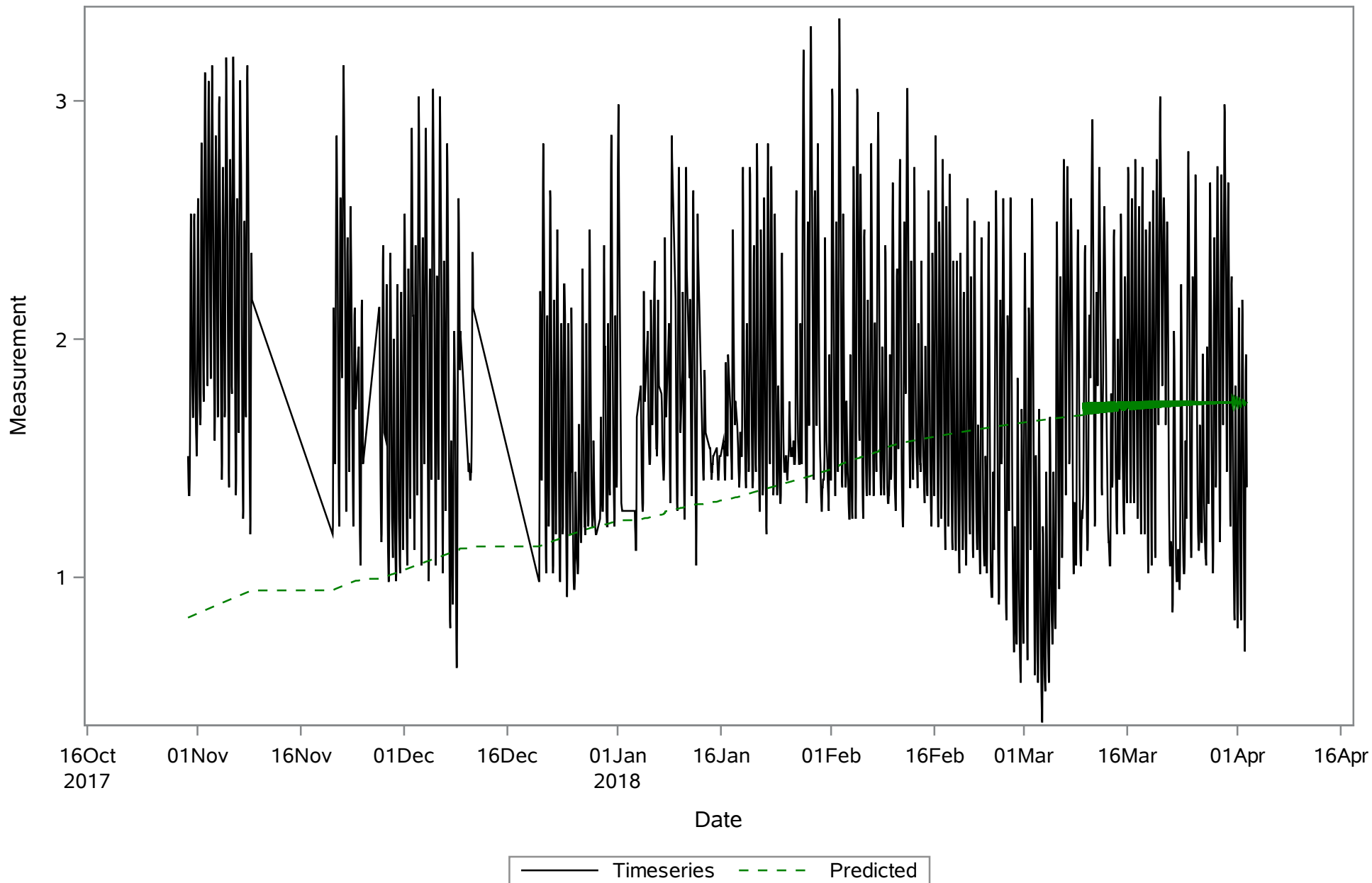


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

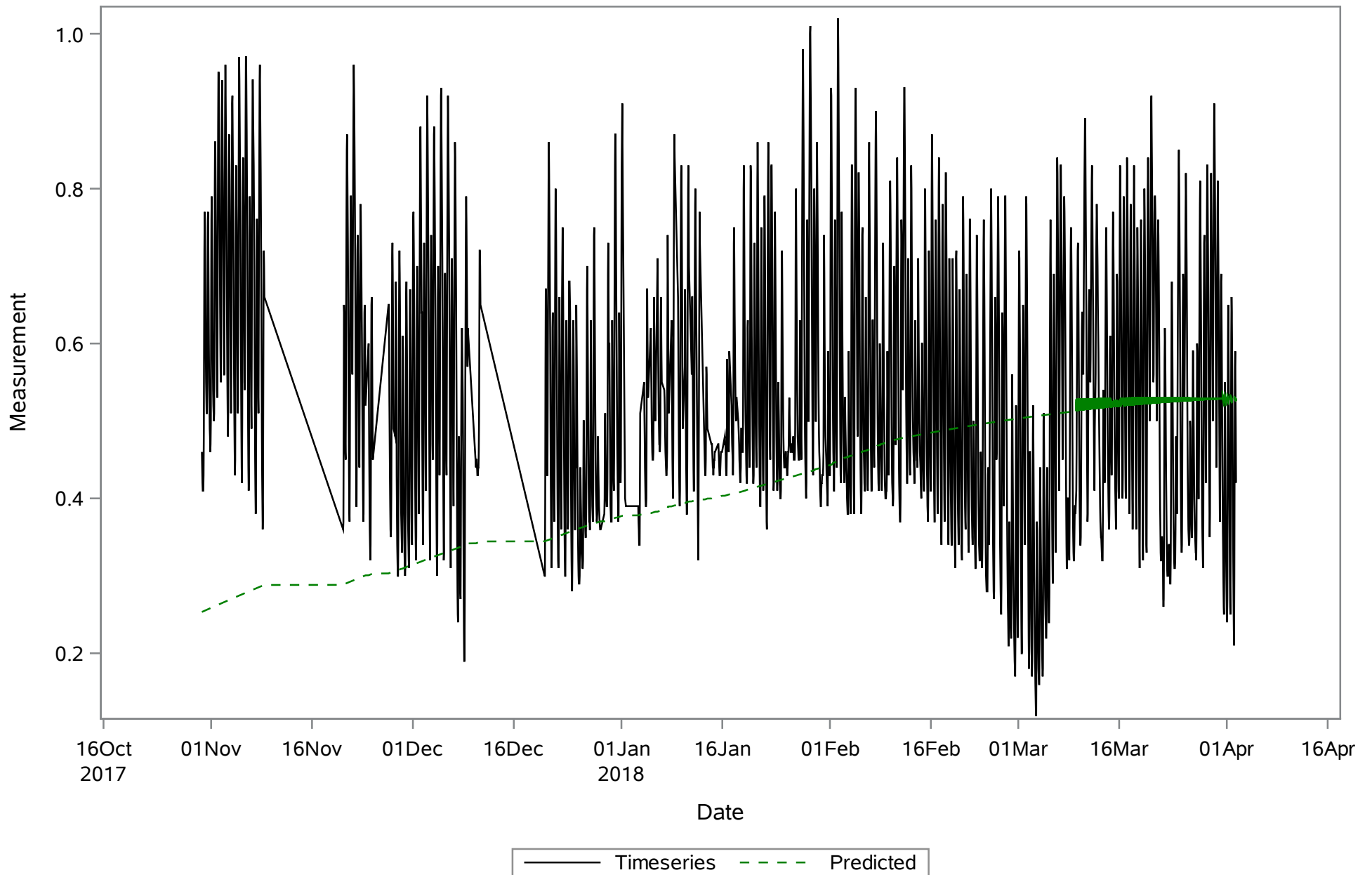
Hourly DEPTH_CORRECTED



Chassahowitzka River - Continuous Recorder

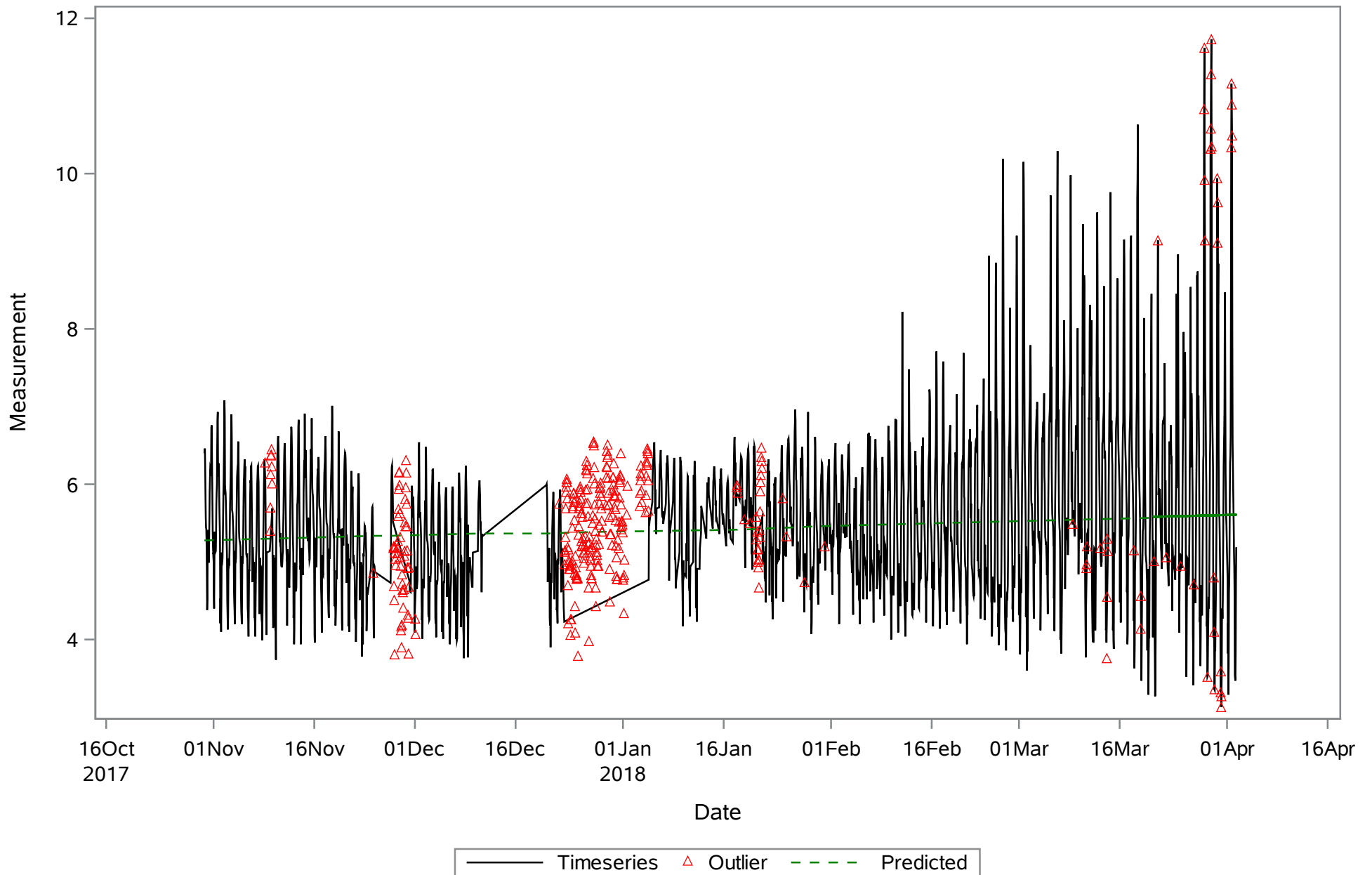
Source: Continuous Recorder

Hourly DEPTH_M



Chassahowitzka River - Continuous Recorder

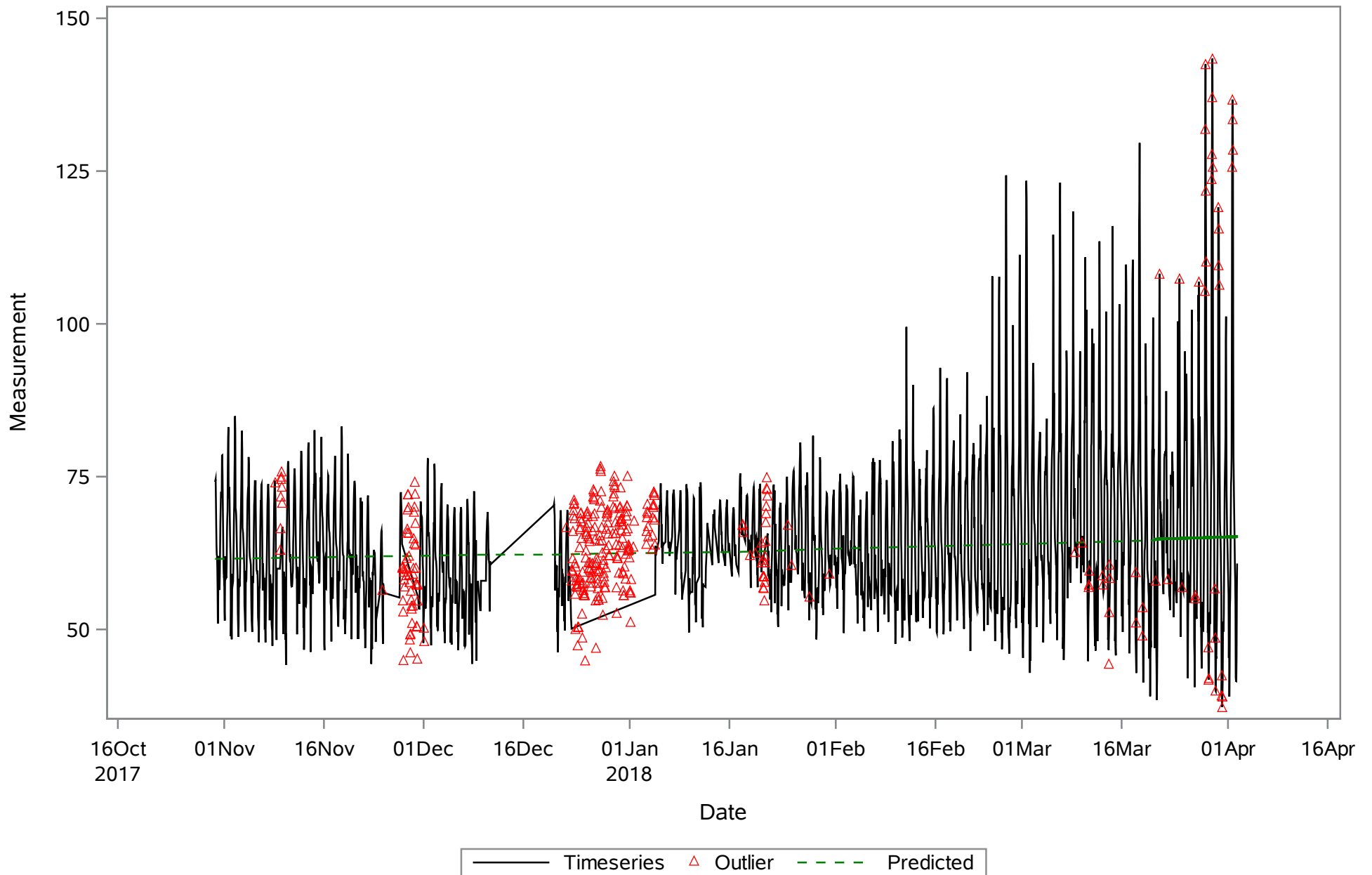
Source: Continuous Recorder
Hourly
DO_MGL



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

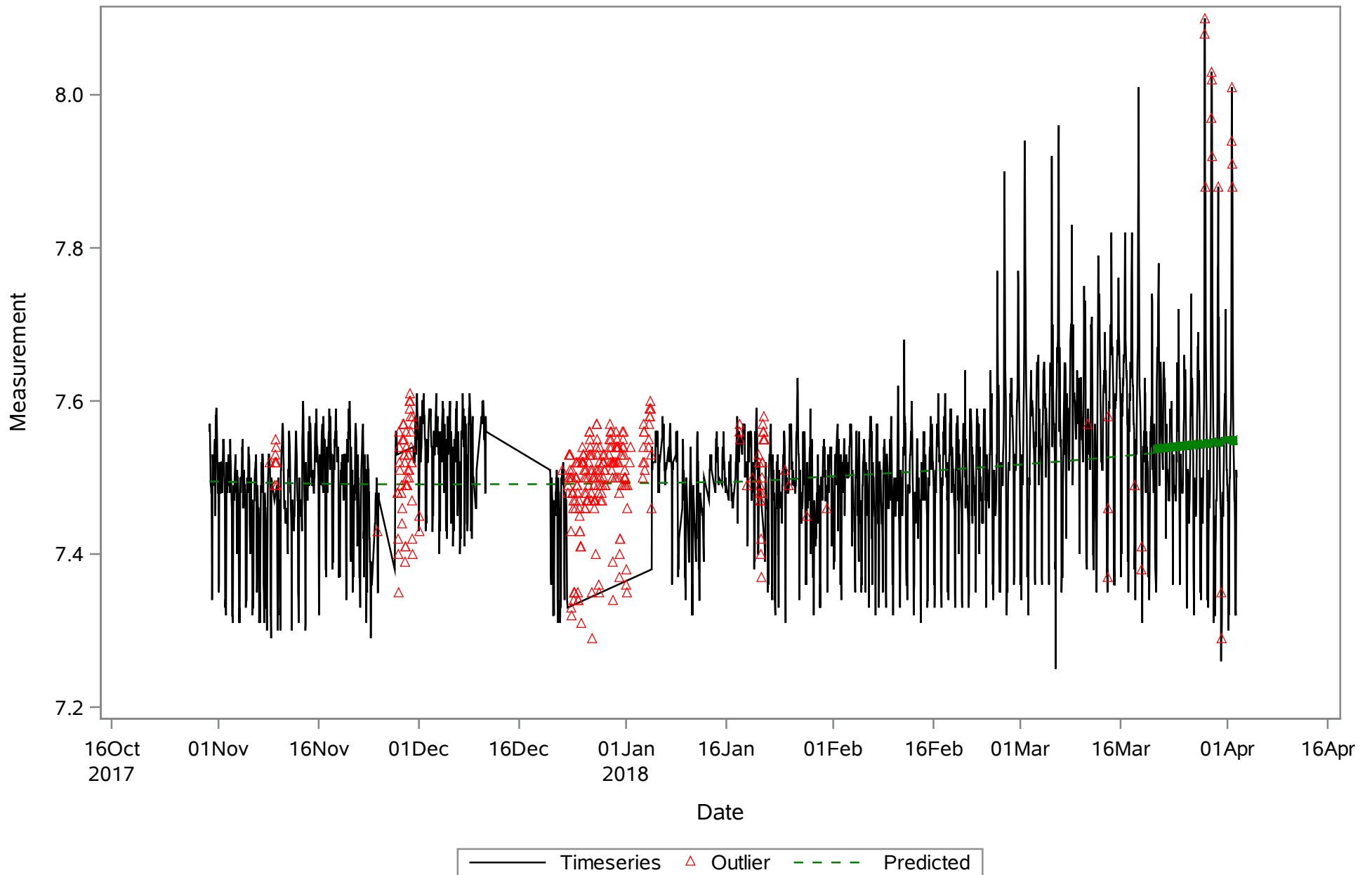
Hourly DO_PCT



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

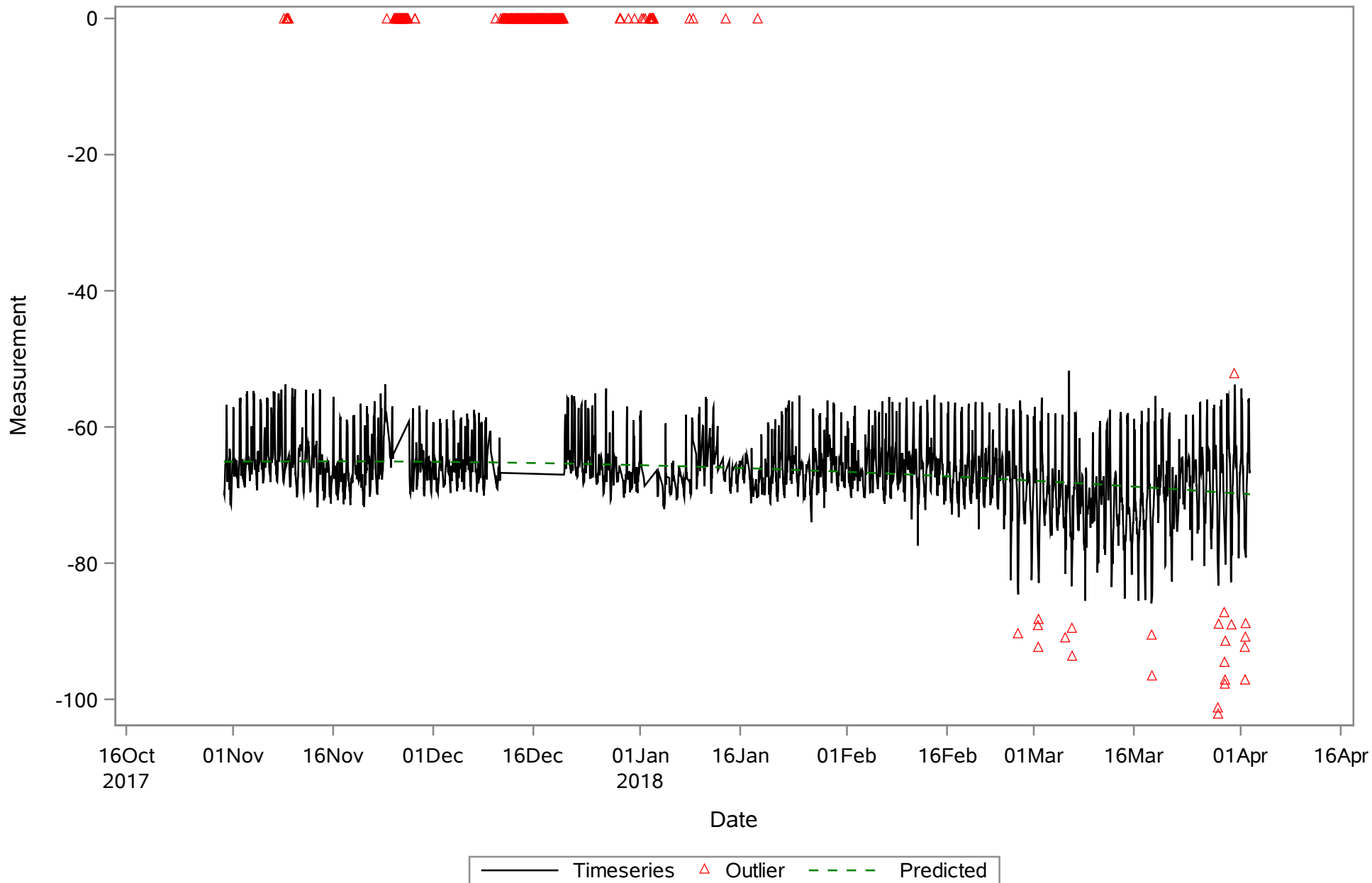
Hourly PH



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

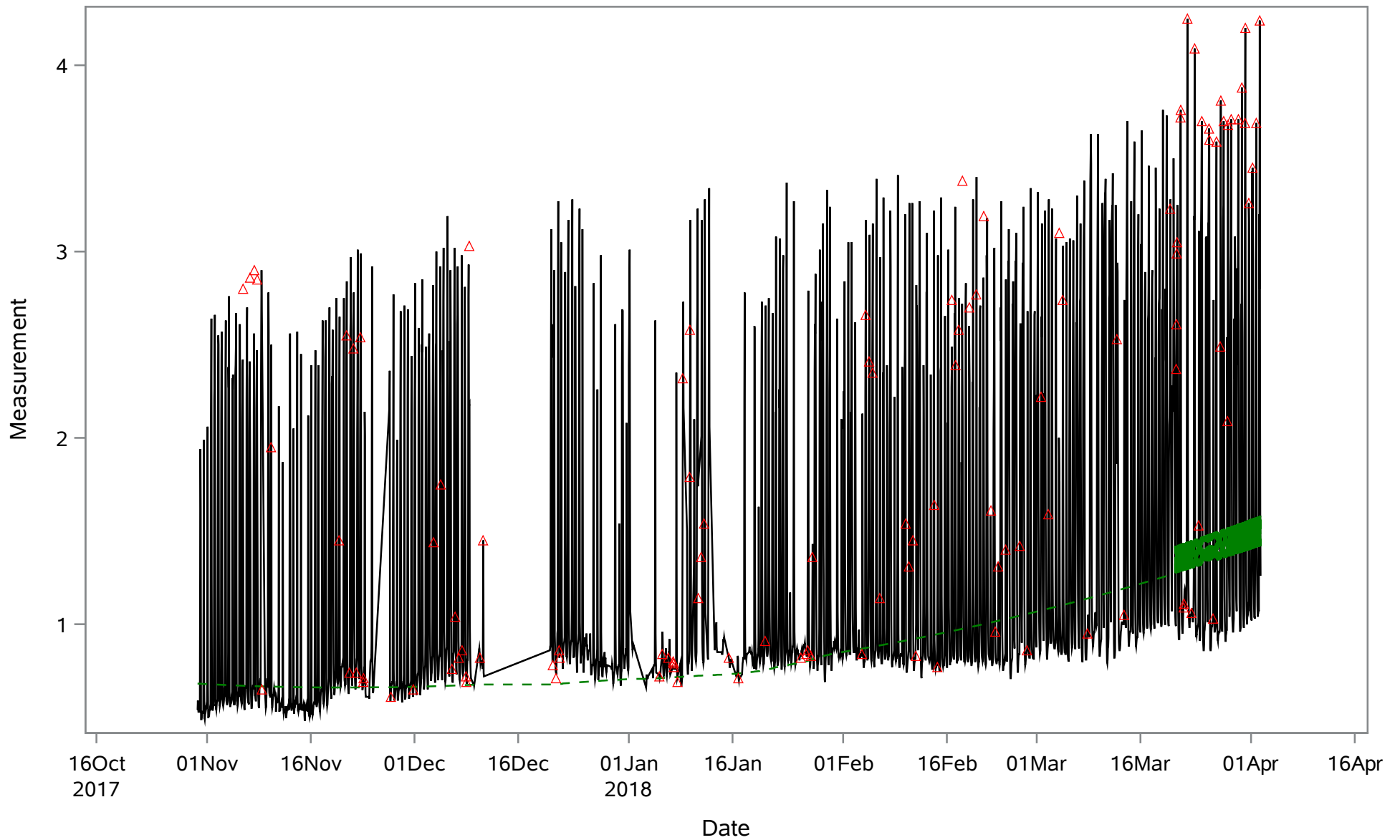
Hourly PH_mV



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly SAL_PPT

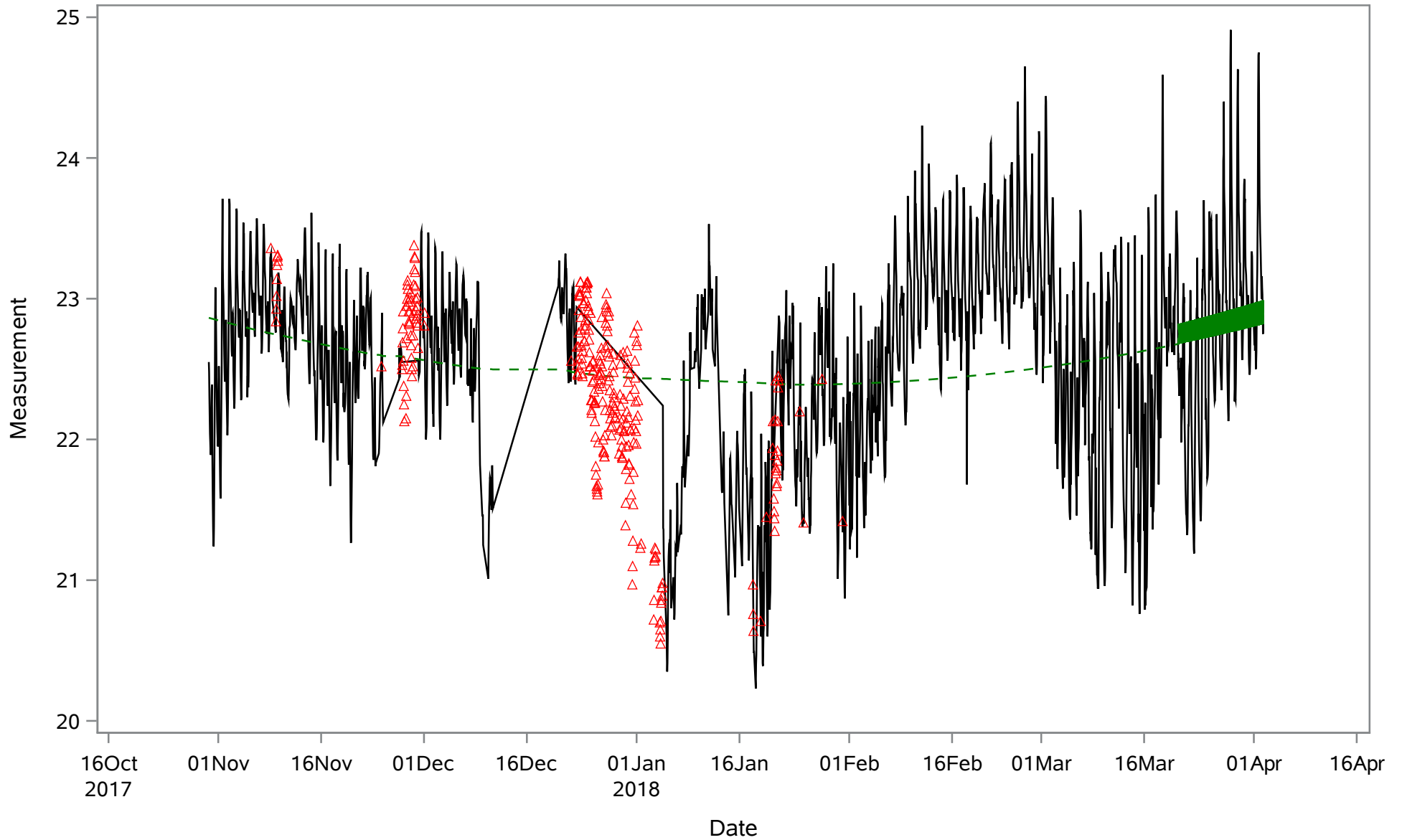


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly TEMP_C

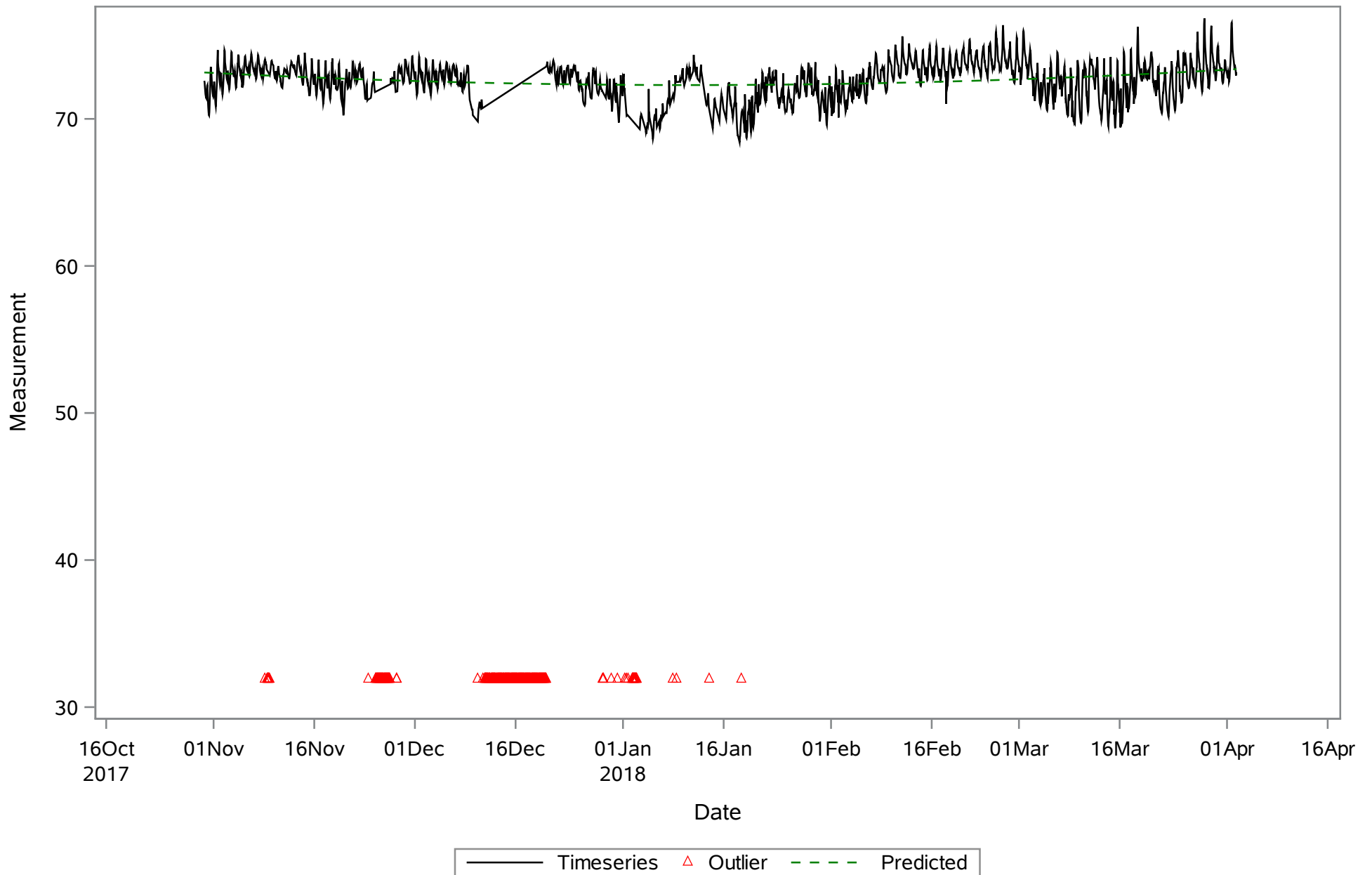


— Timeseries △ Outlier - - - Predicted

Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

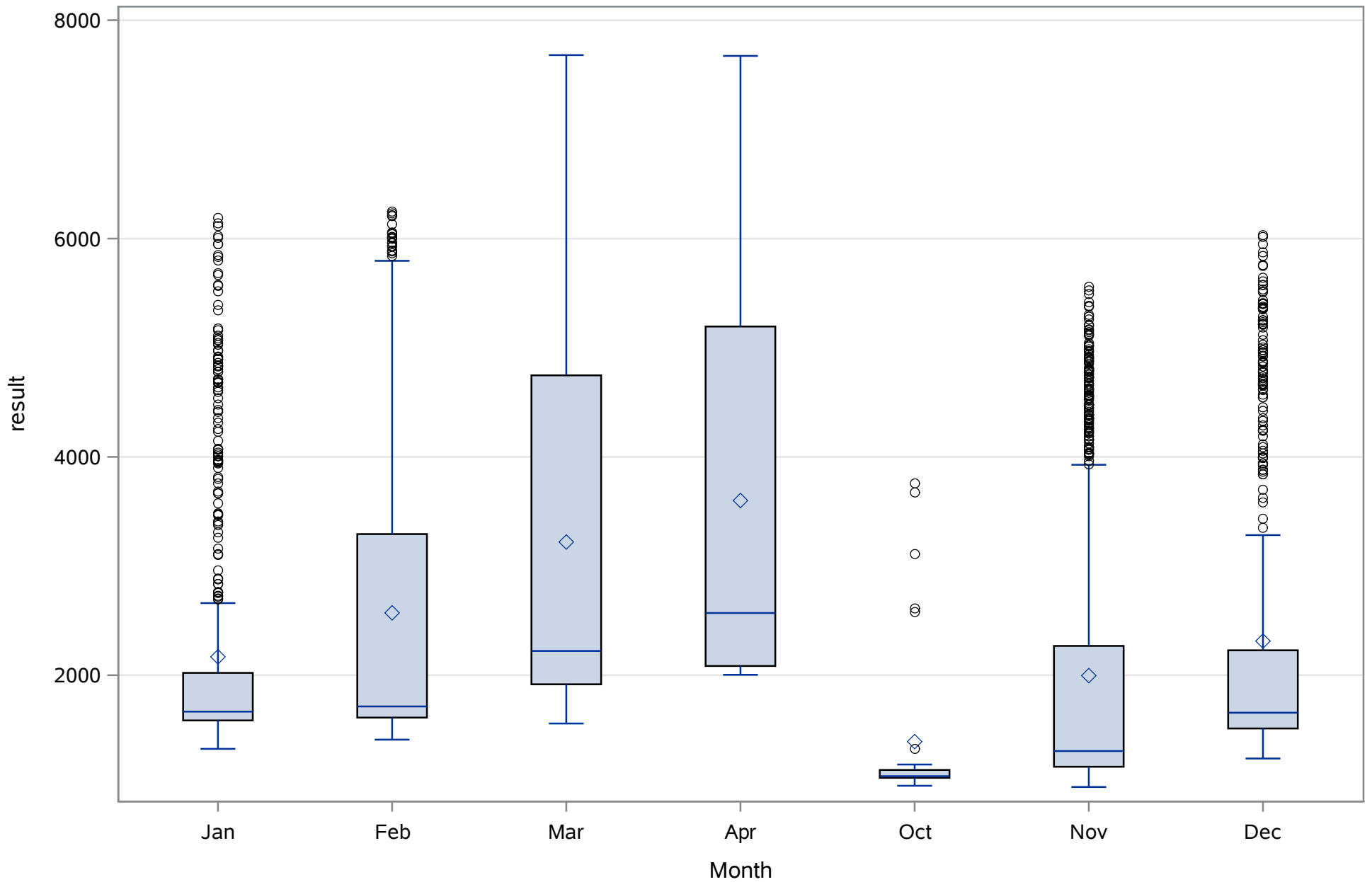
Hourly TEMP_F



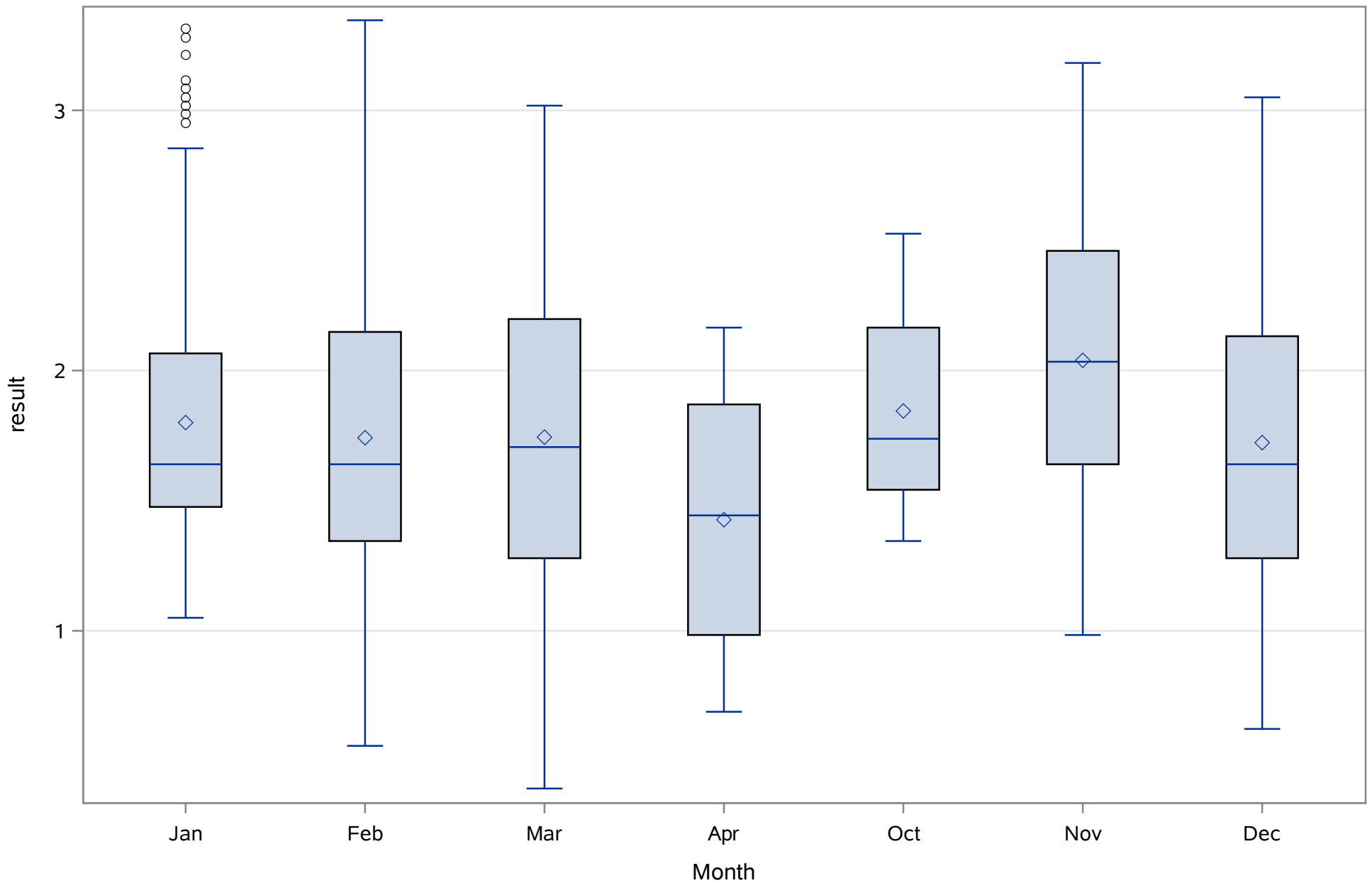
Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

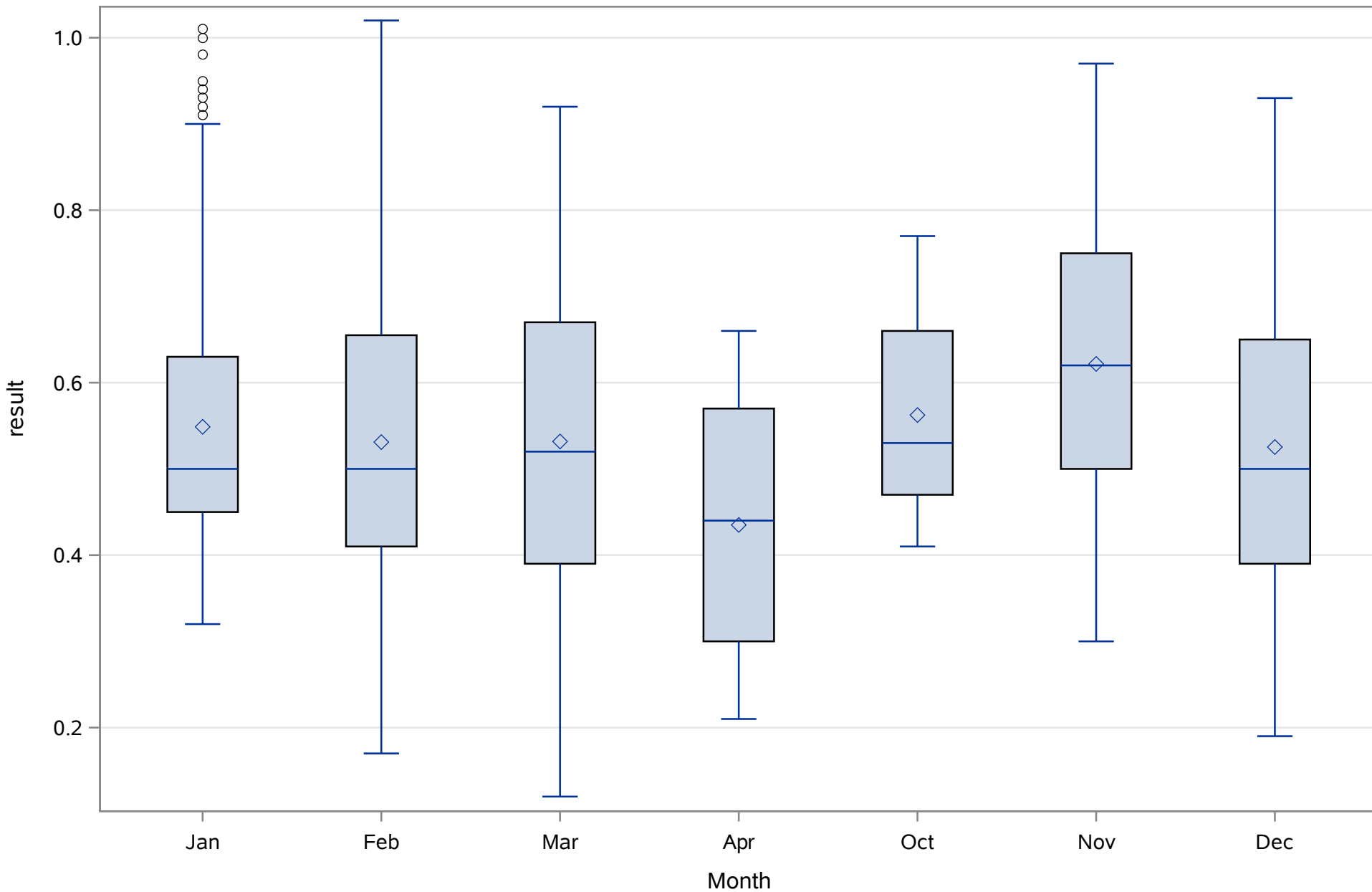
Hourly COND



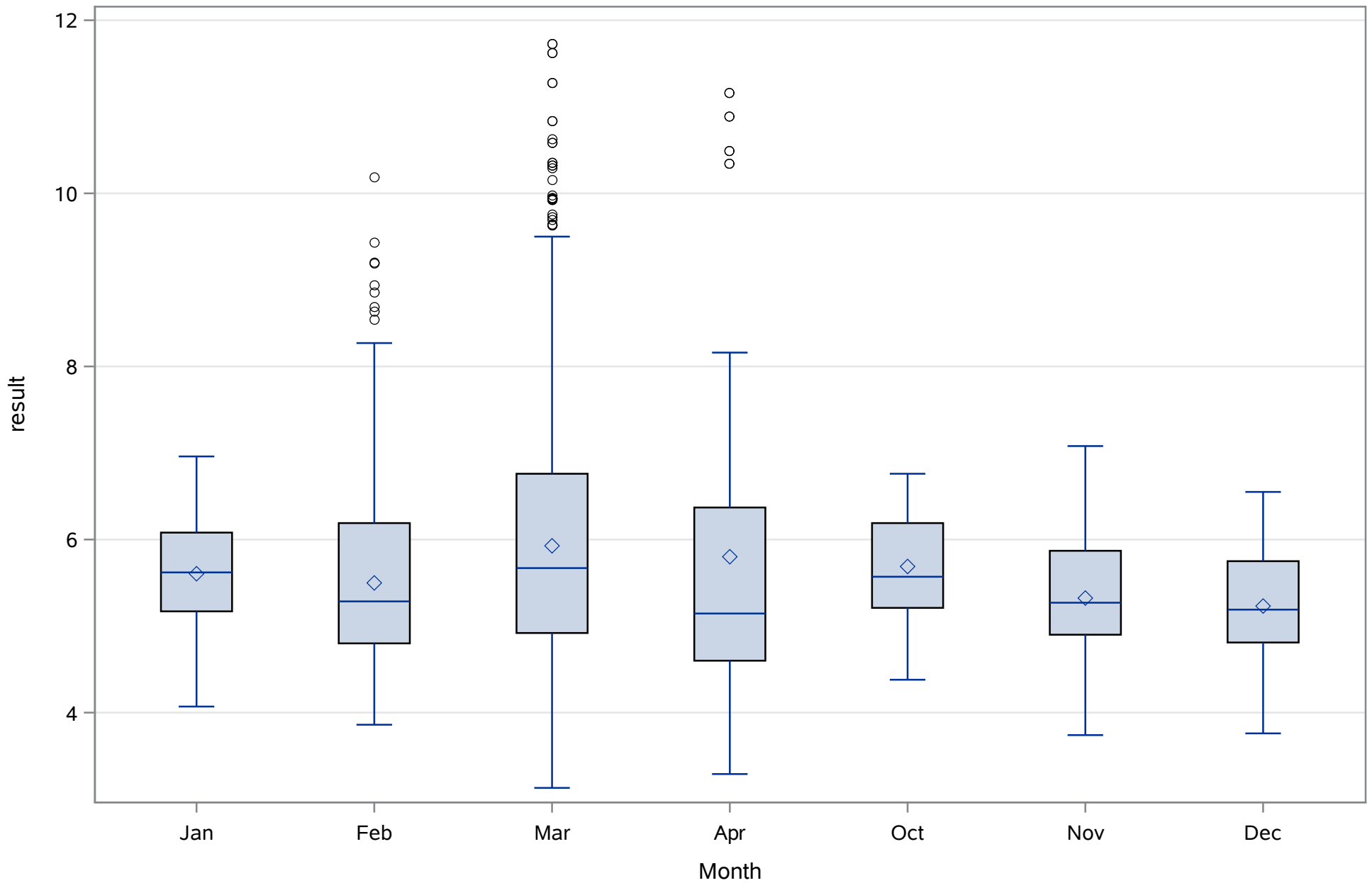
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DEPTH_CORRECTED



Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DEPTH_M



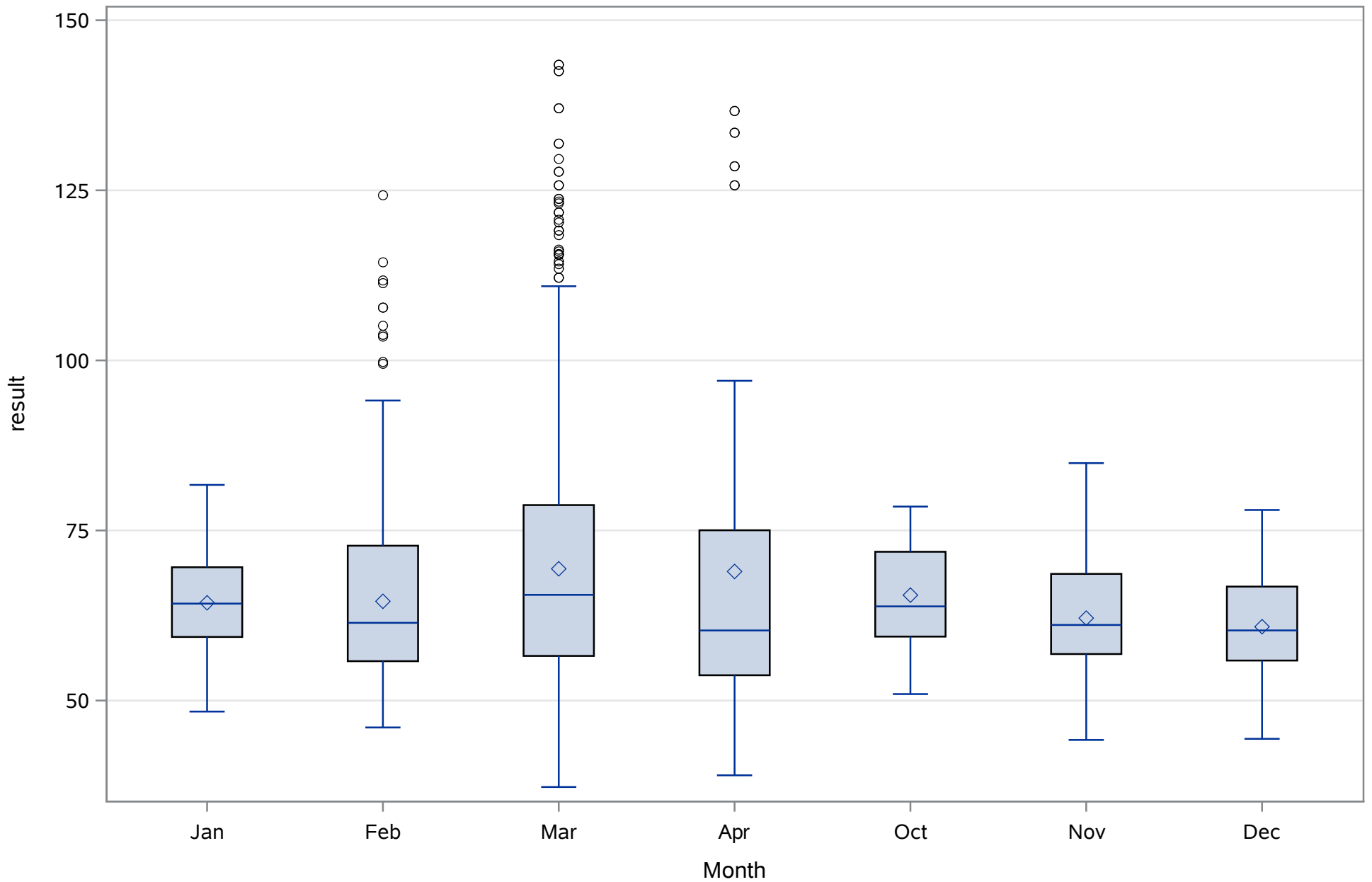
Chassahowitzka River - Continuous Recorder
Source: Continuous Recorder
Hourly
DO_MGL



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

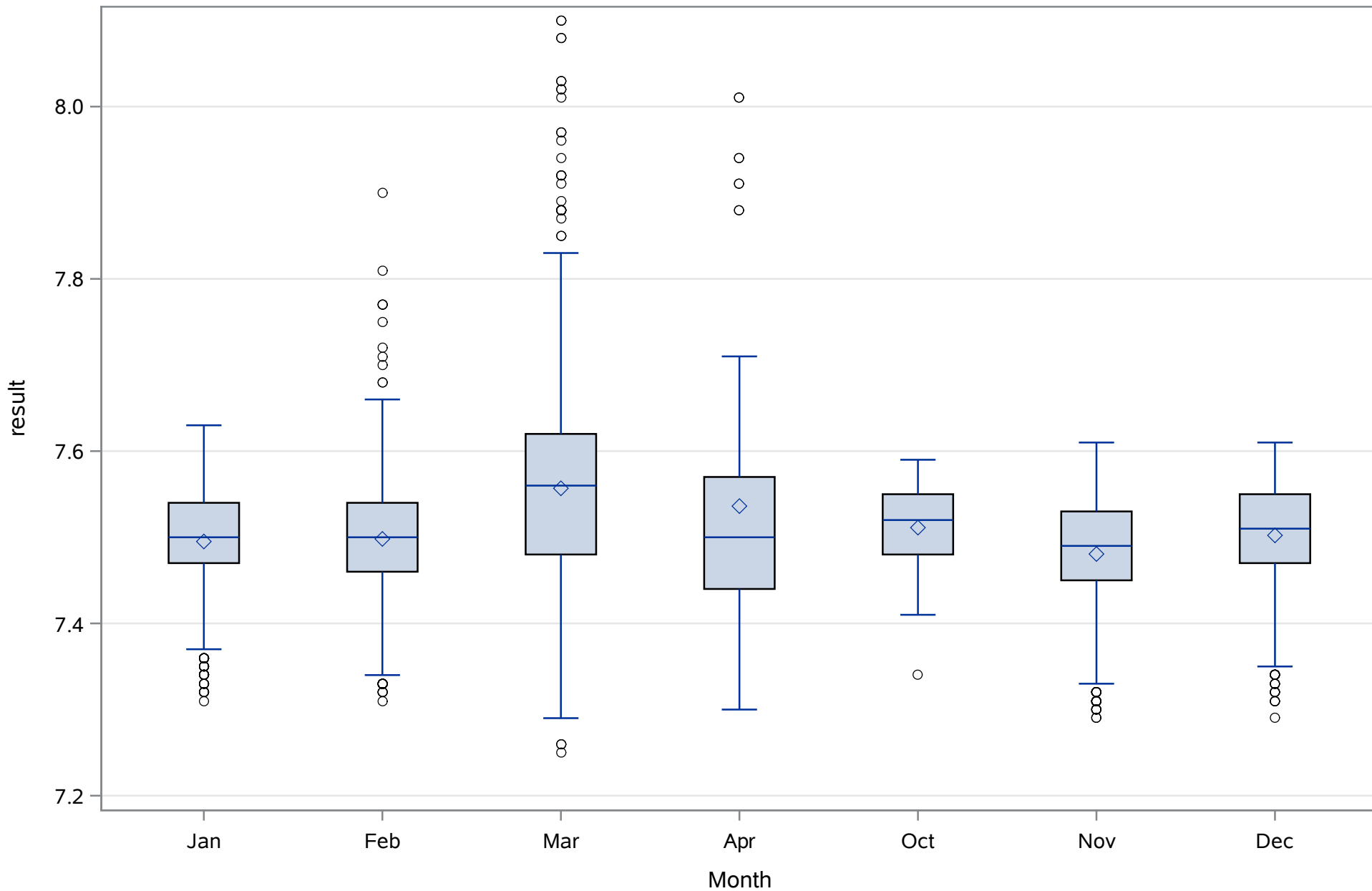
Hourly DO_PCT



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

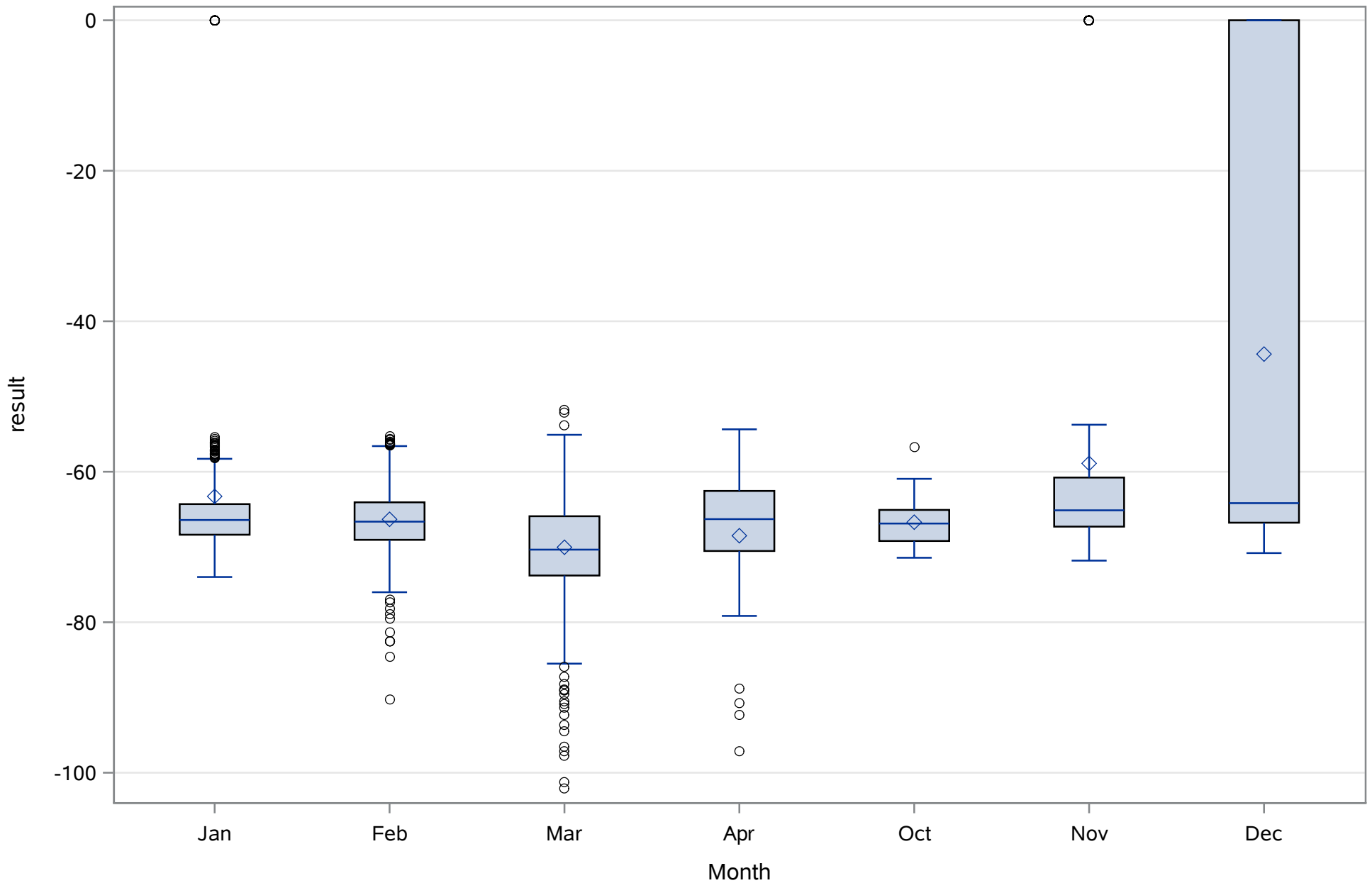
Hourly PH



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

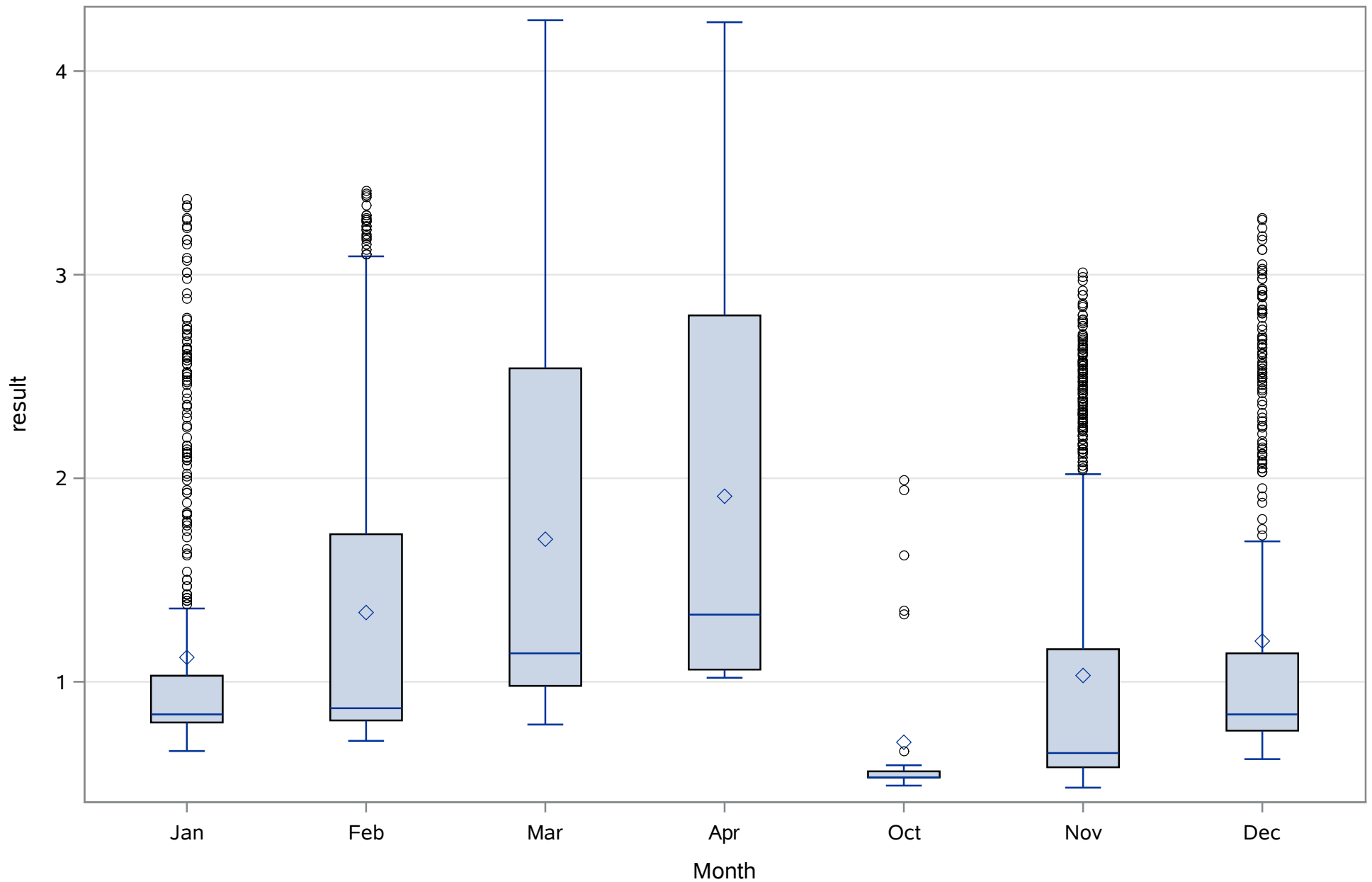
Hourly PH_mV



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

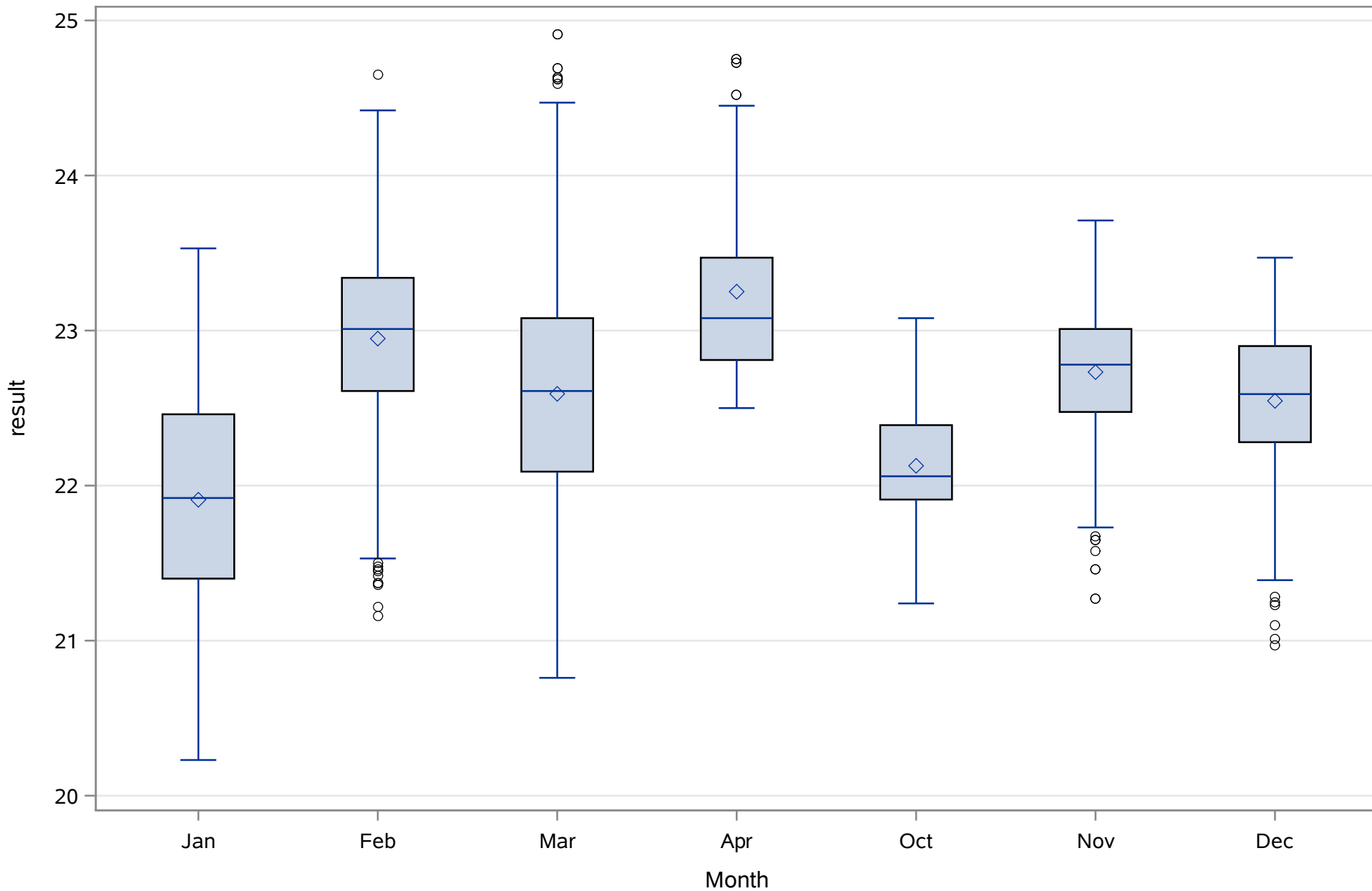
Hourly SAL_PPT



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

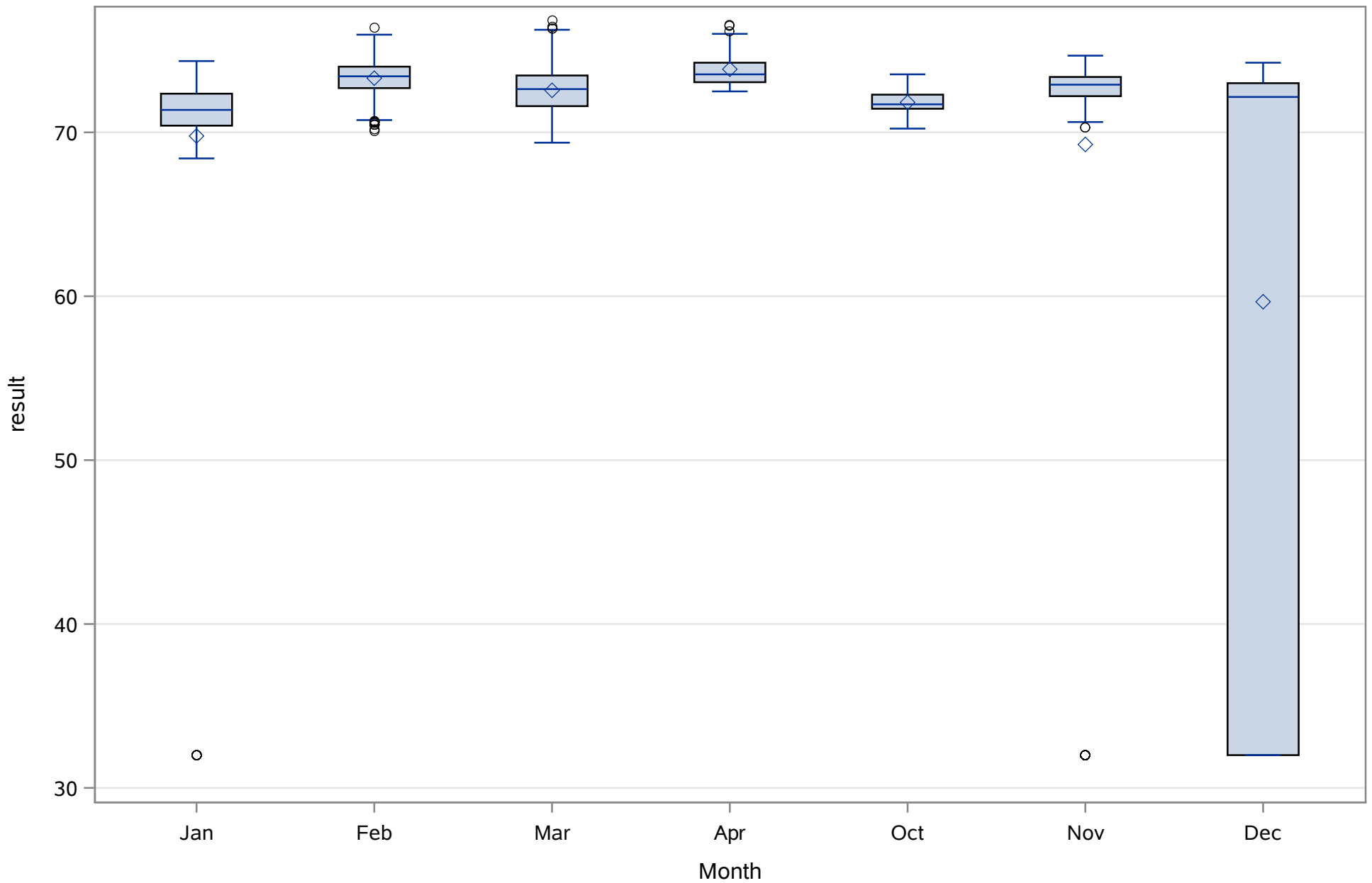
Hourly TEMP_C



Chassahowitzka River - Continuous Recorder

Source: Continuous Recorder

Hourly TEMP_F

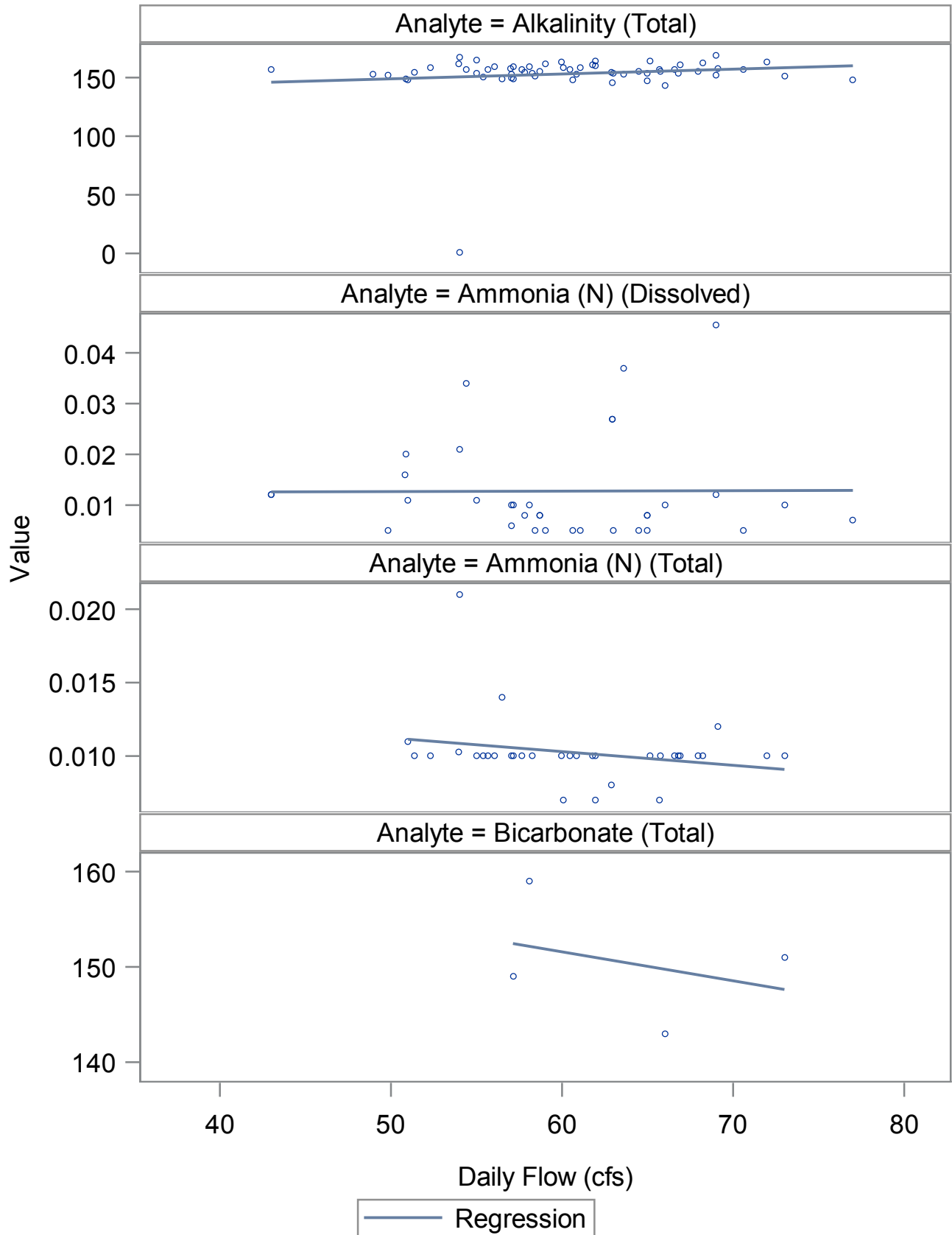


APPENDIX C

Water Quality Versus Flow Plots for all Springs Data (P-889)
Collected for the Chassahowitzka River

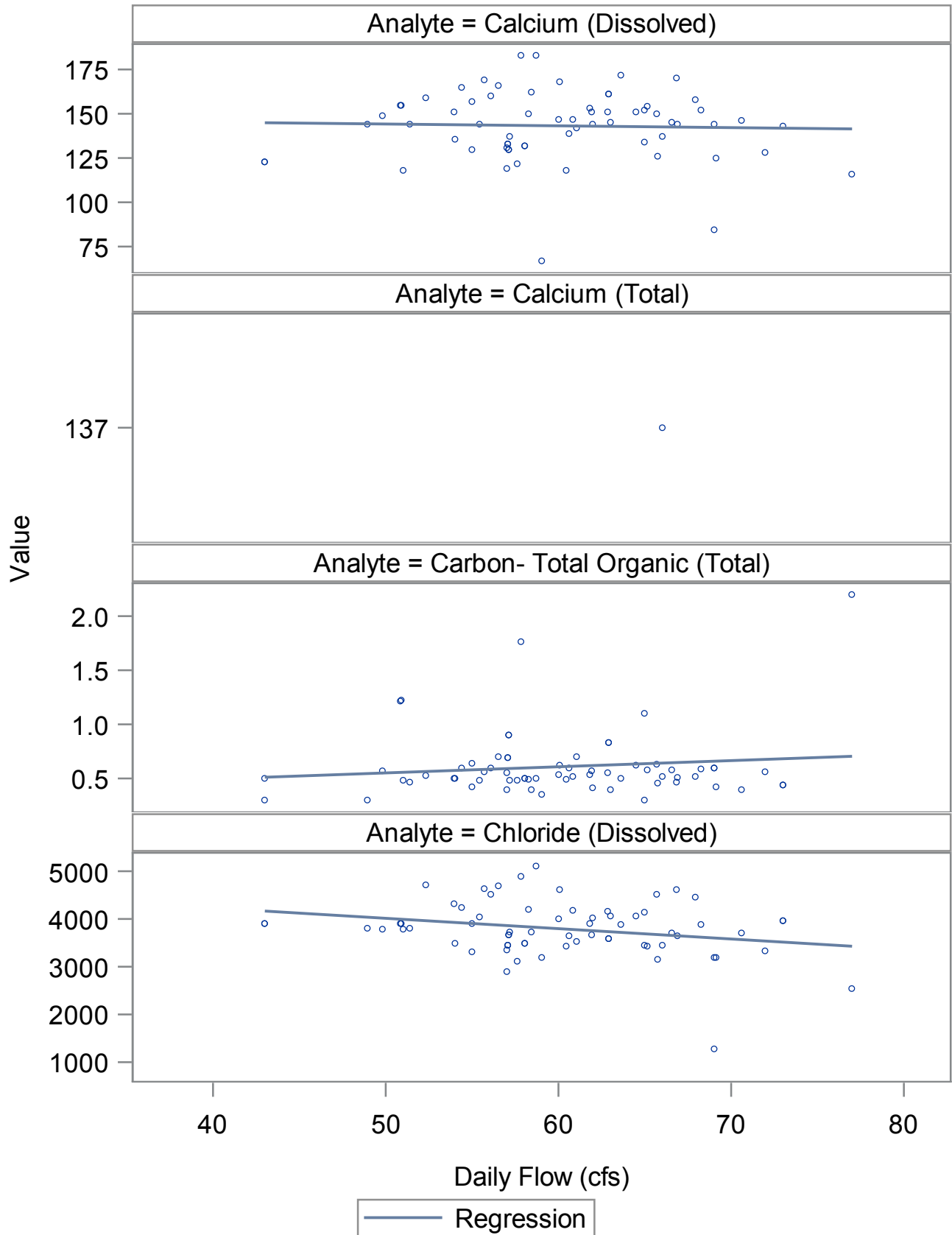
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



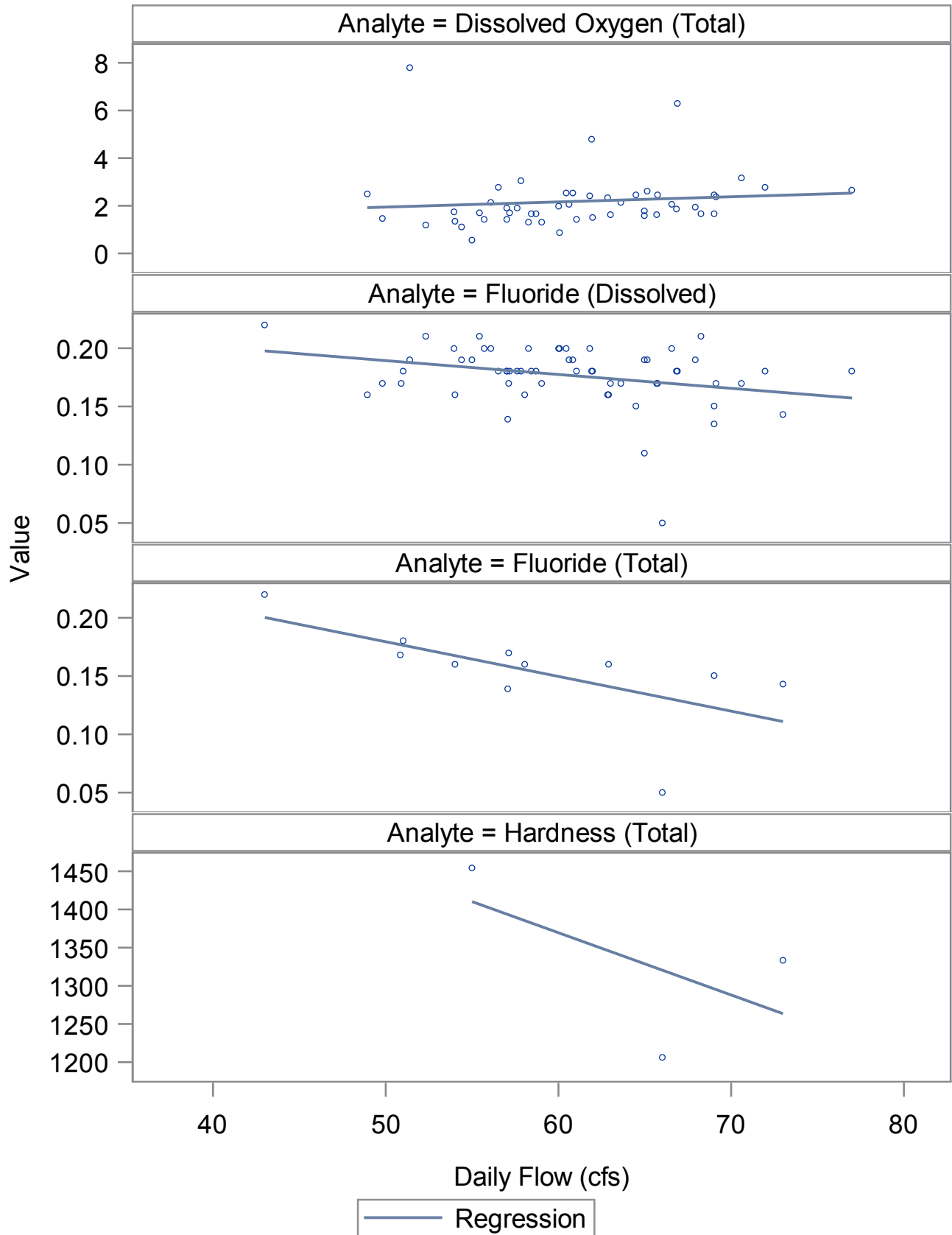
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



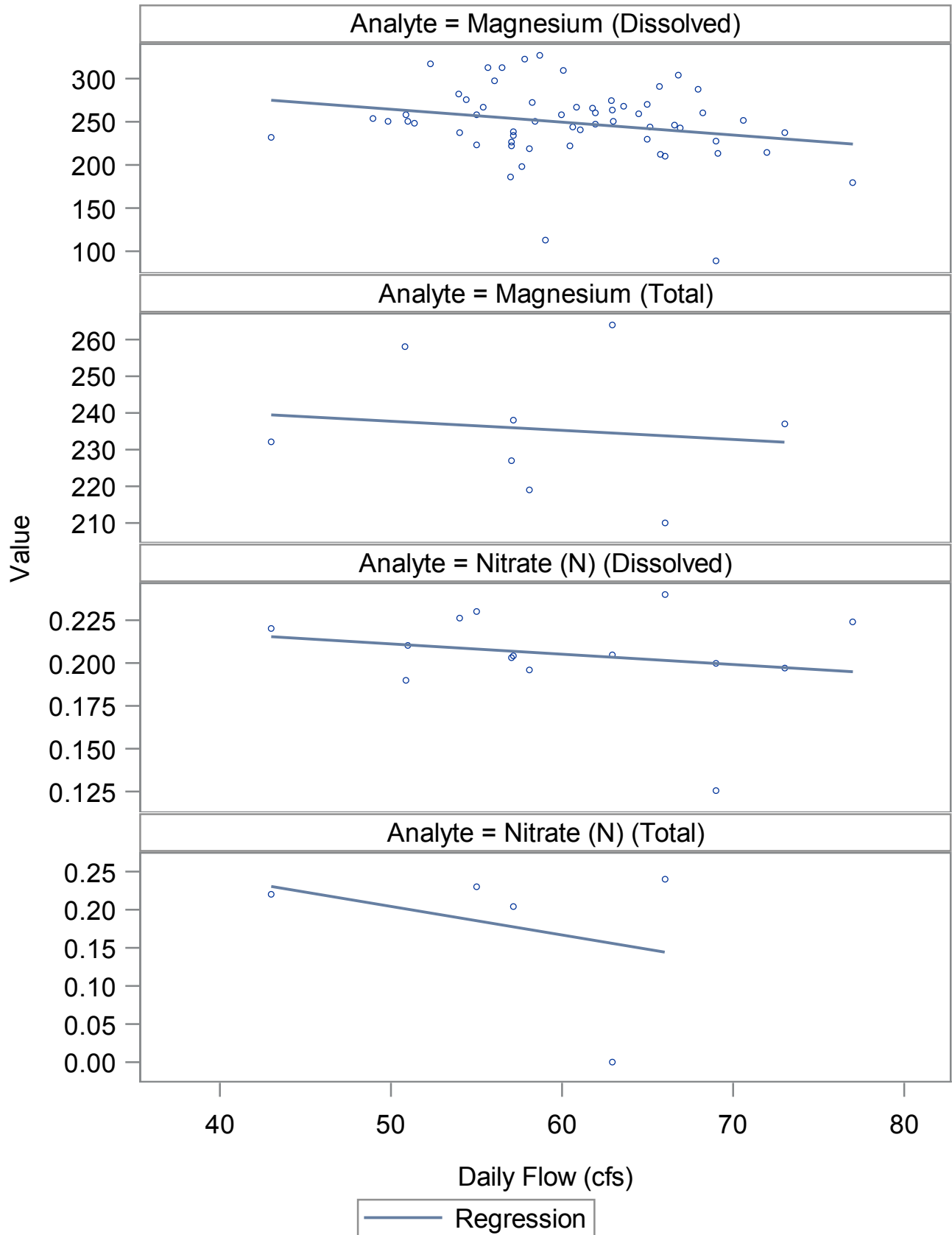
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



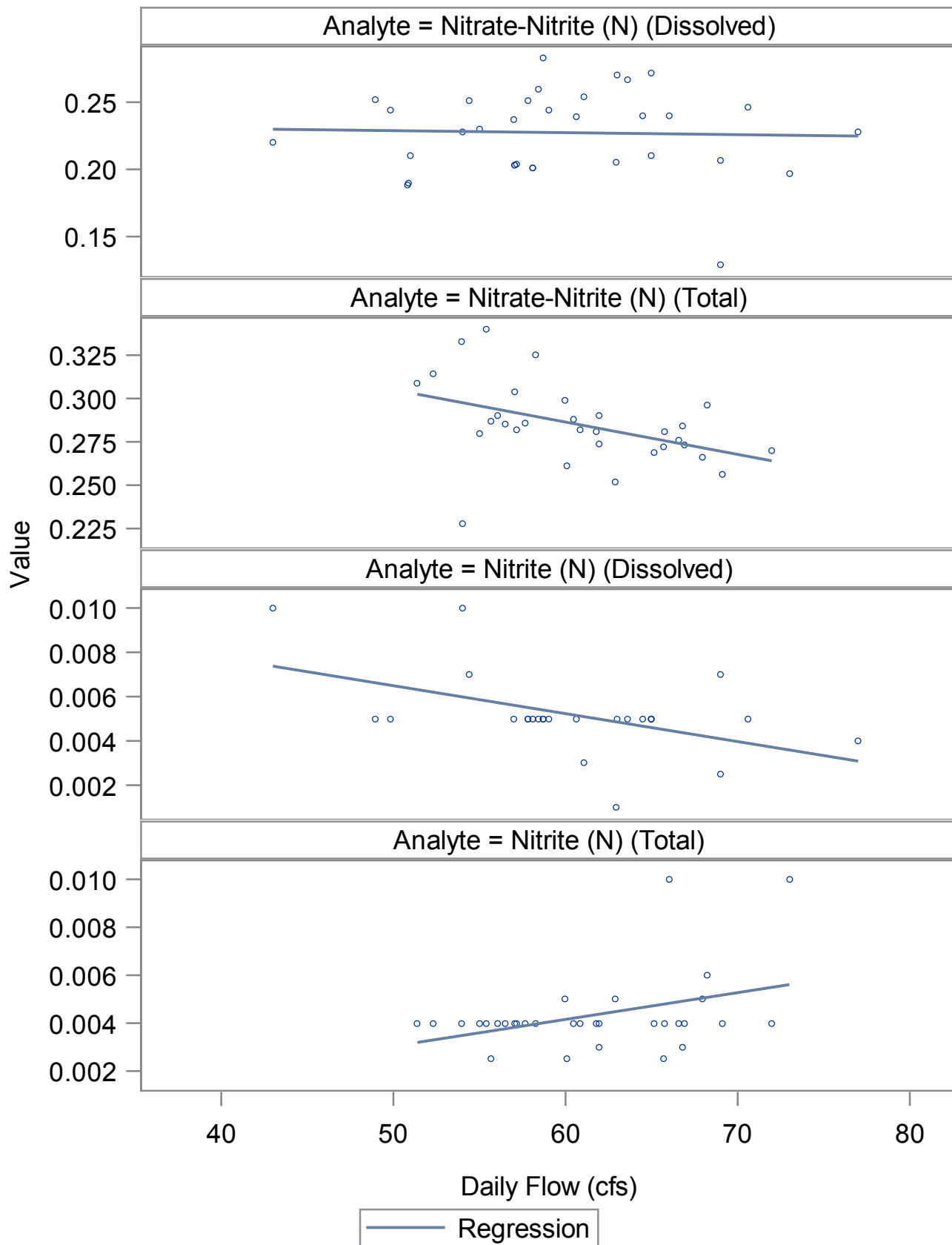
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



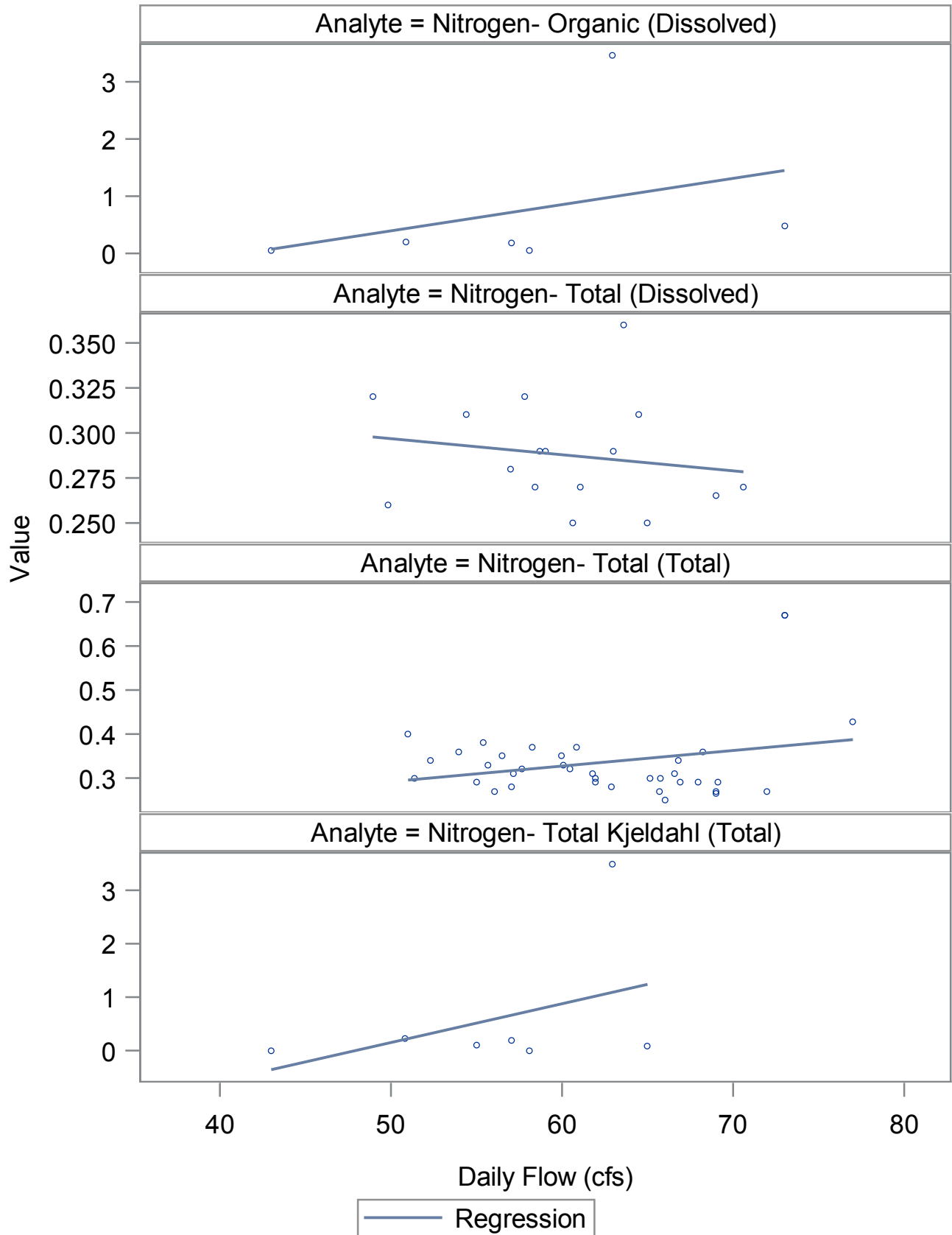
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



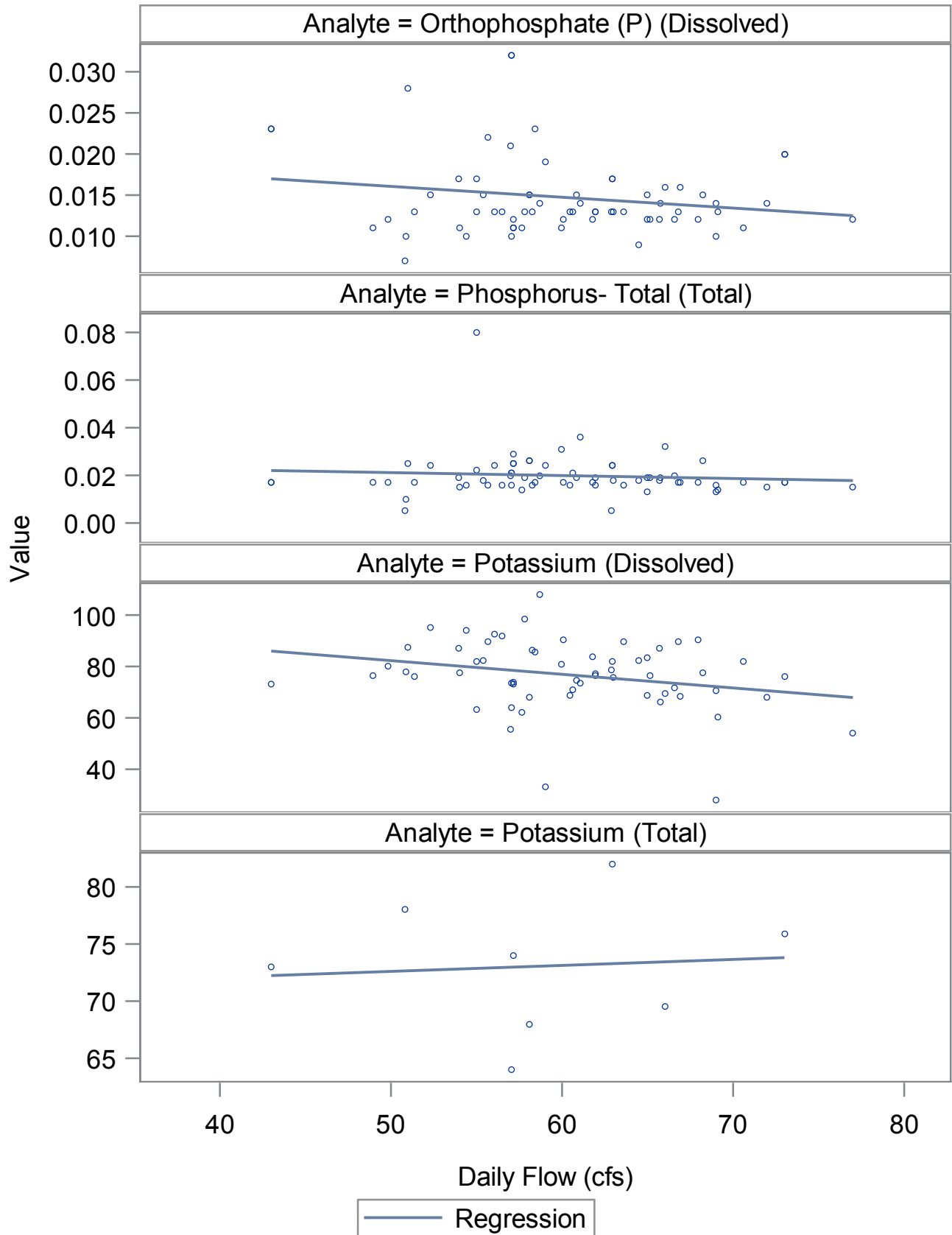
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



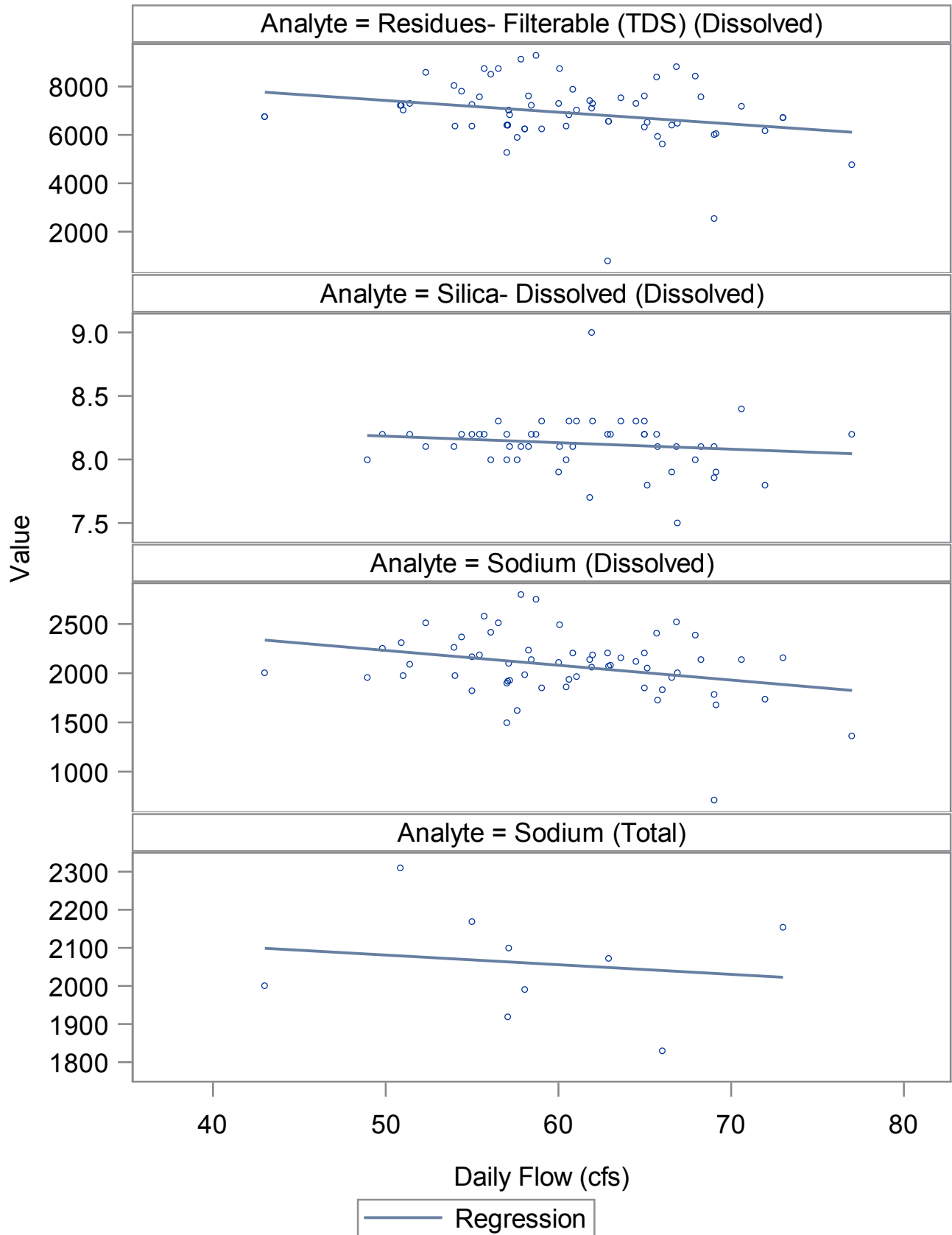
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



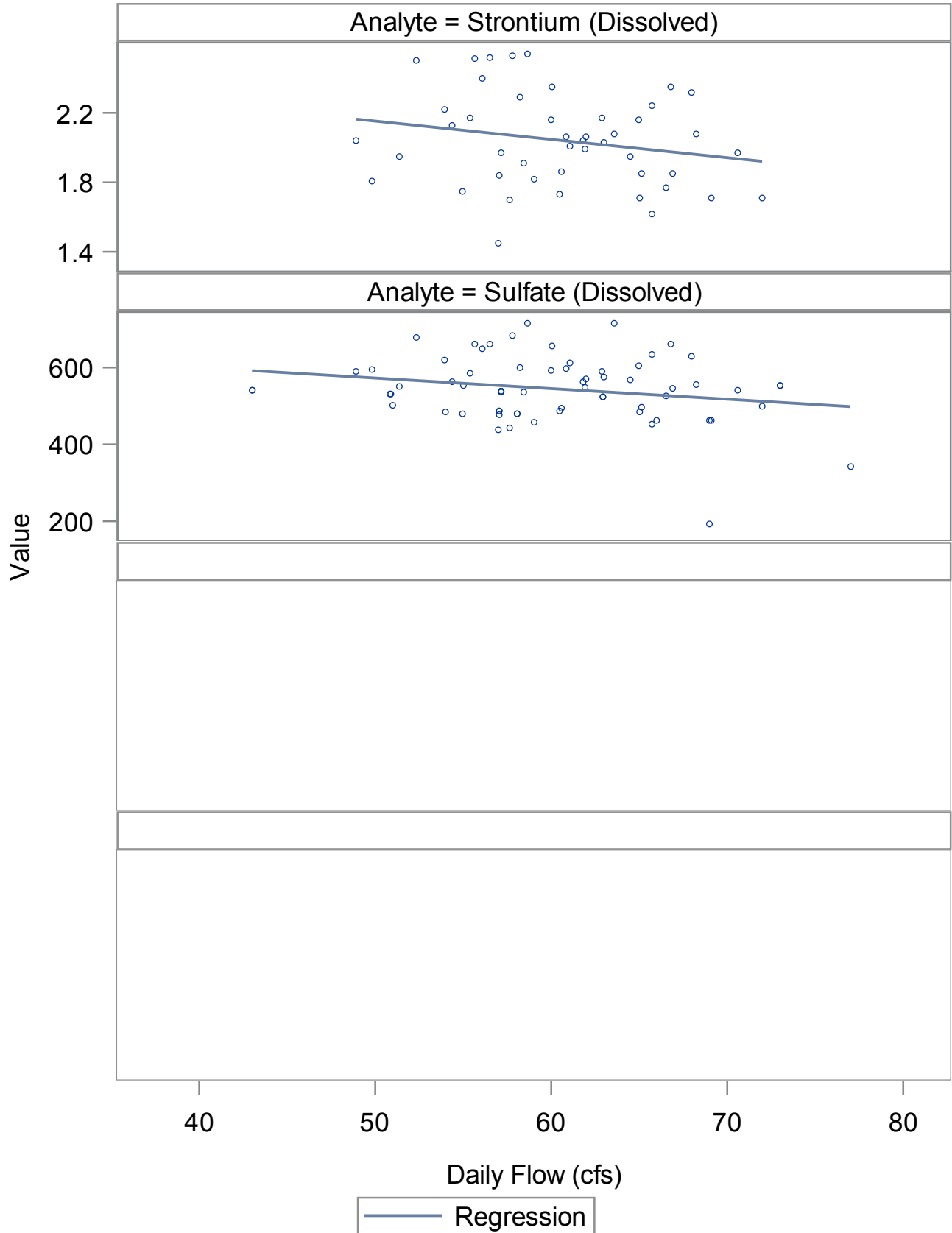
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



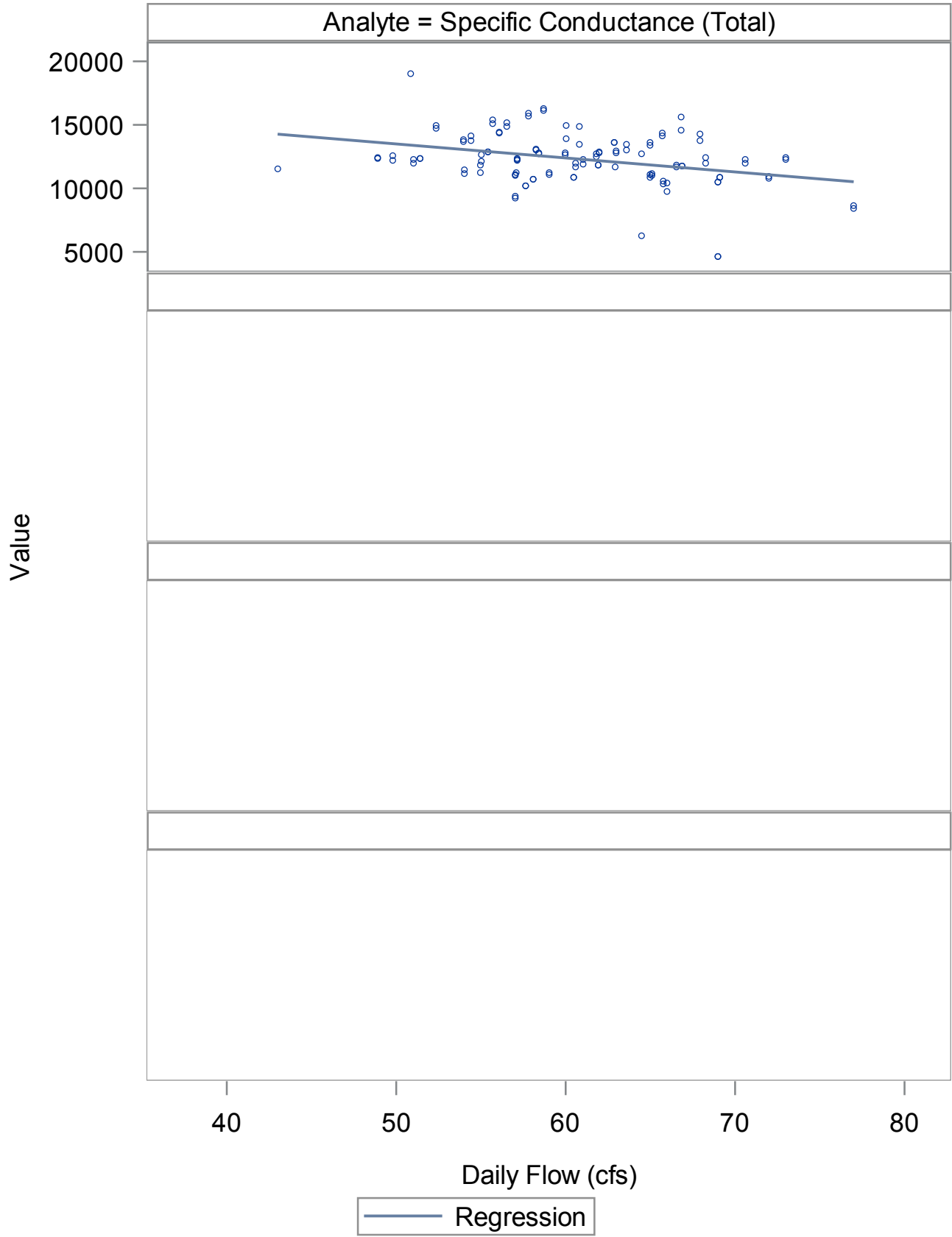
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=mg/L



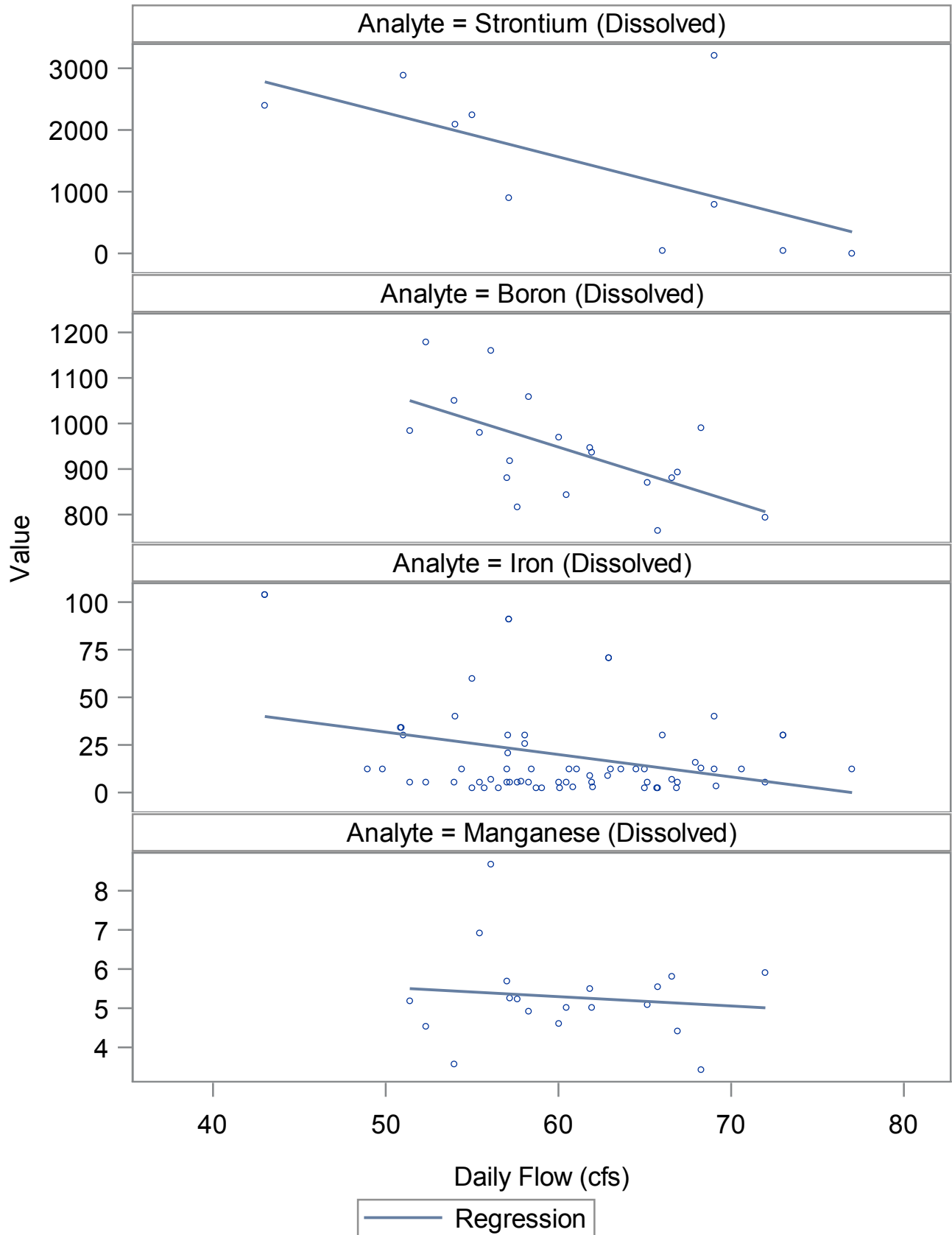
All Data Against Daily Flows

Source=P-889 Station=BAIRD SPRING Units=uS/cm



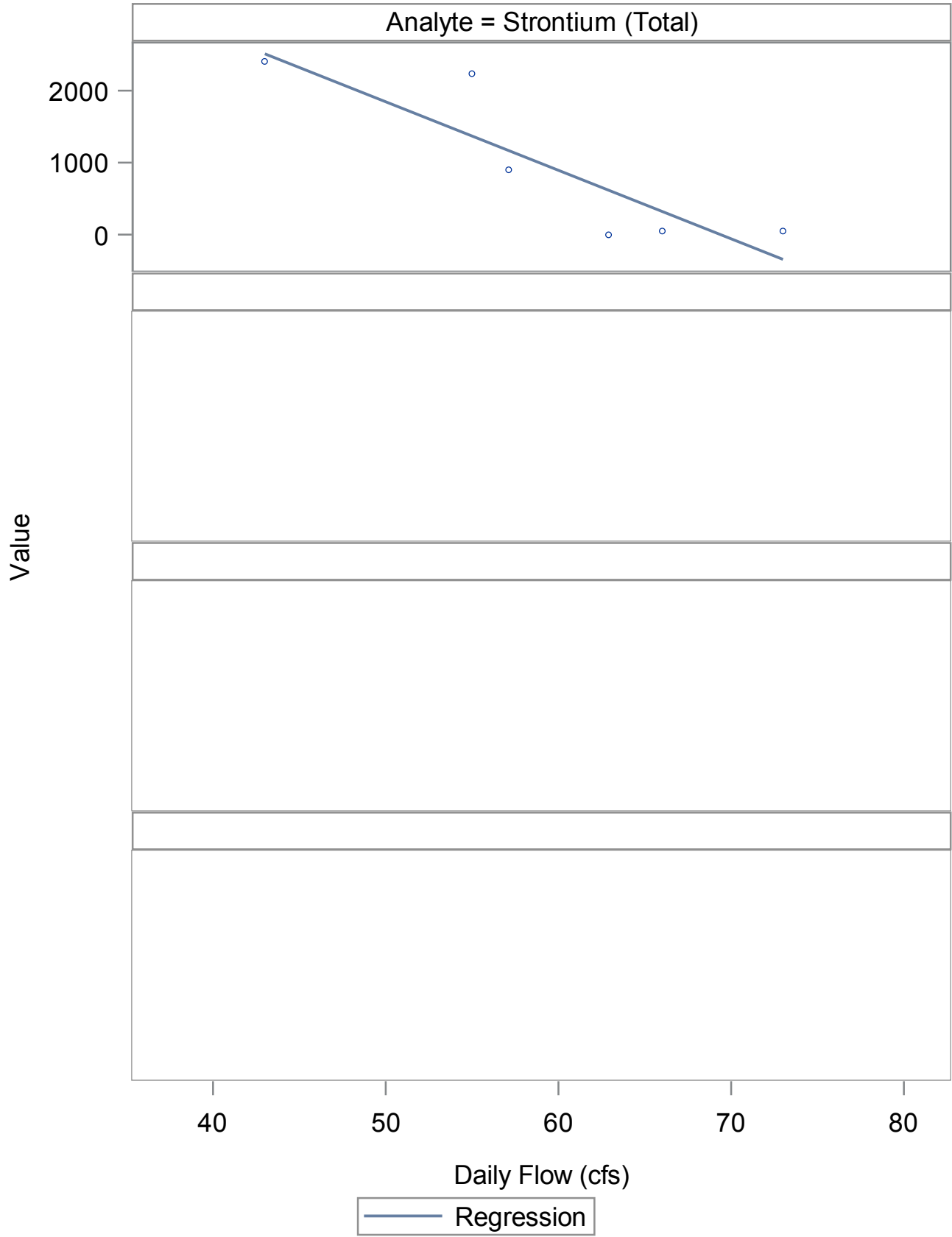
All Data Against Daily Flows

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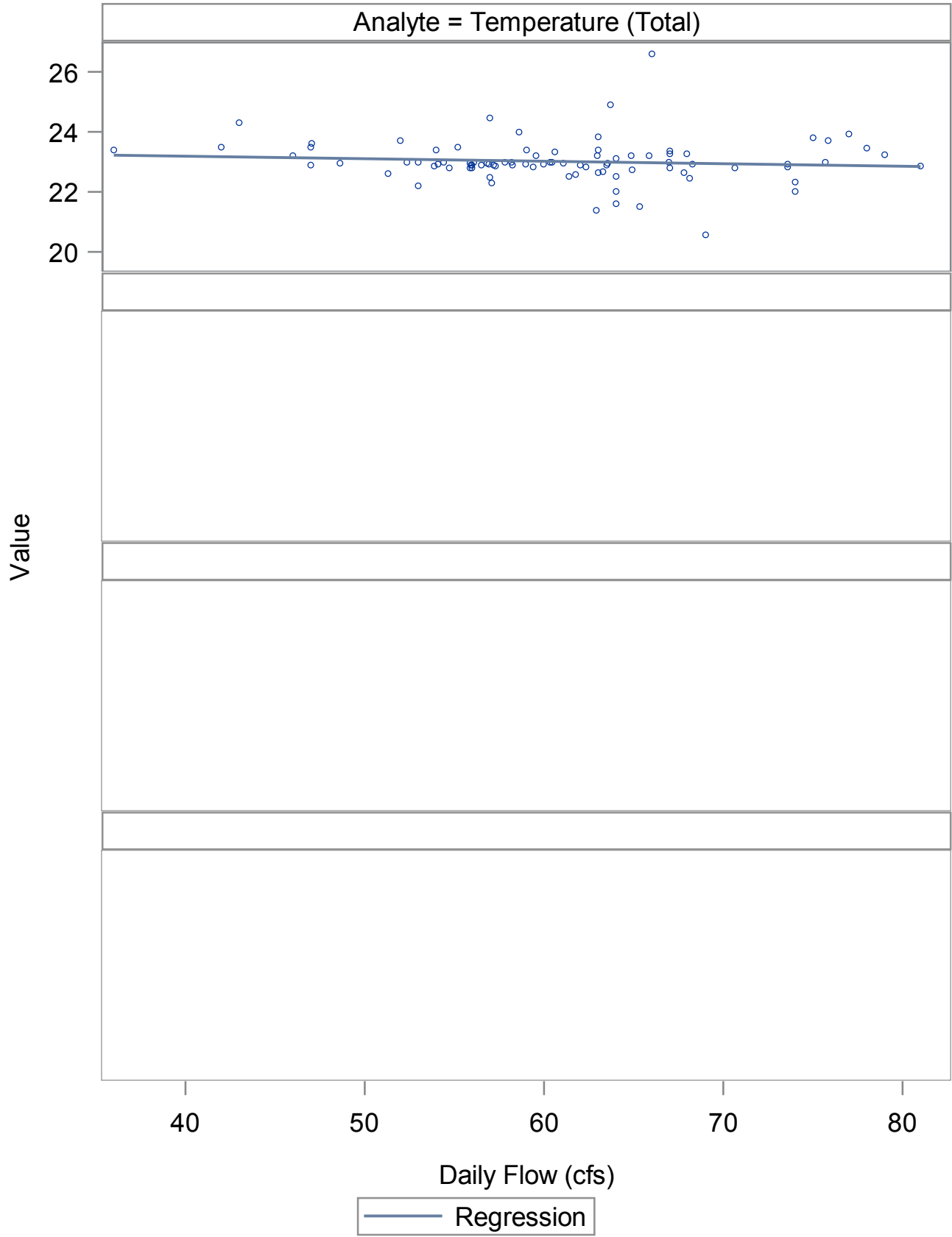
All Data Against Daily Flows

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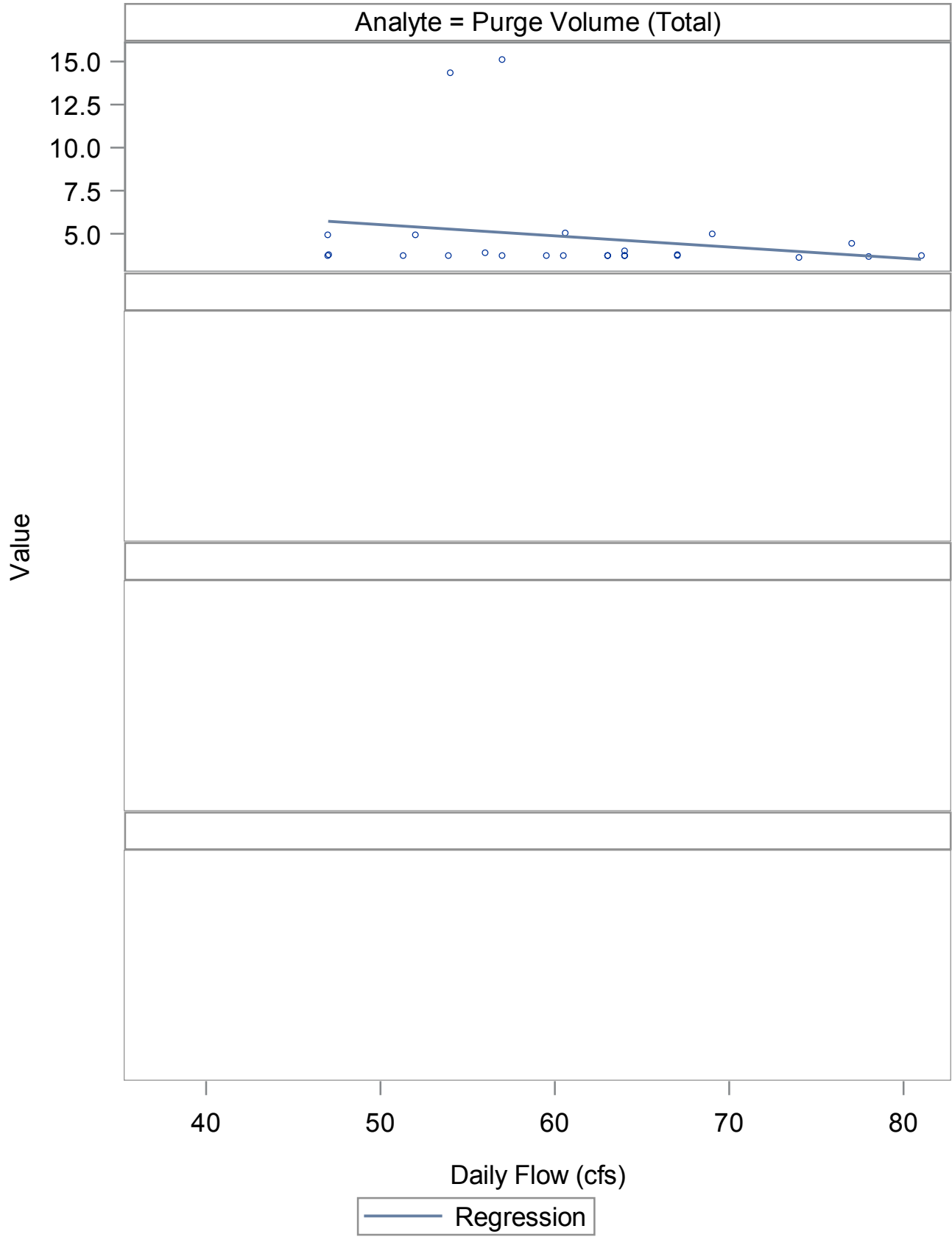
All Data Against Daily Flows

Source=P-889 Station=BETEE JAY SPRING Units=Deg. C



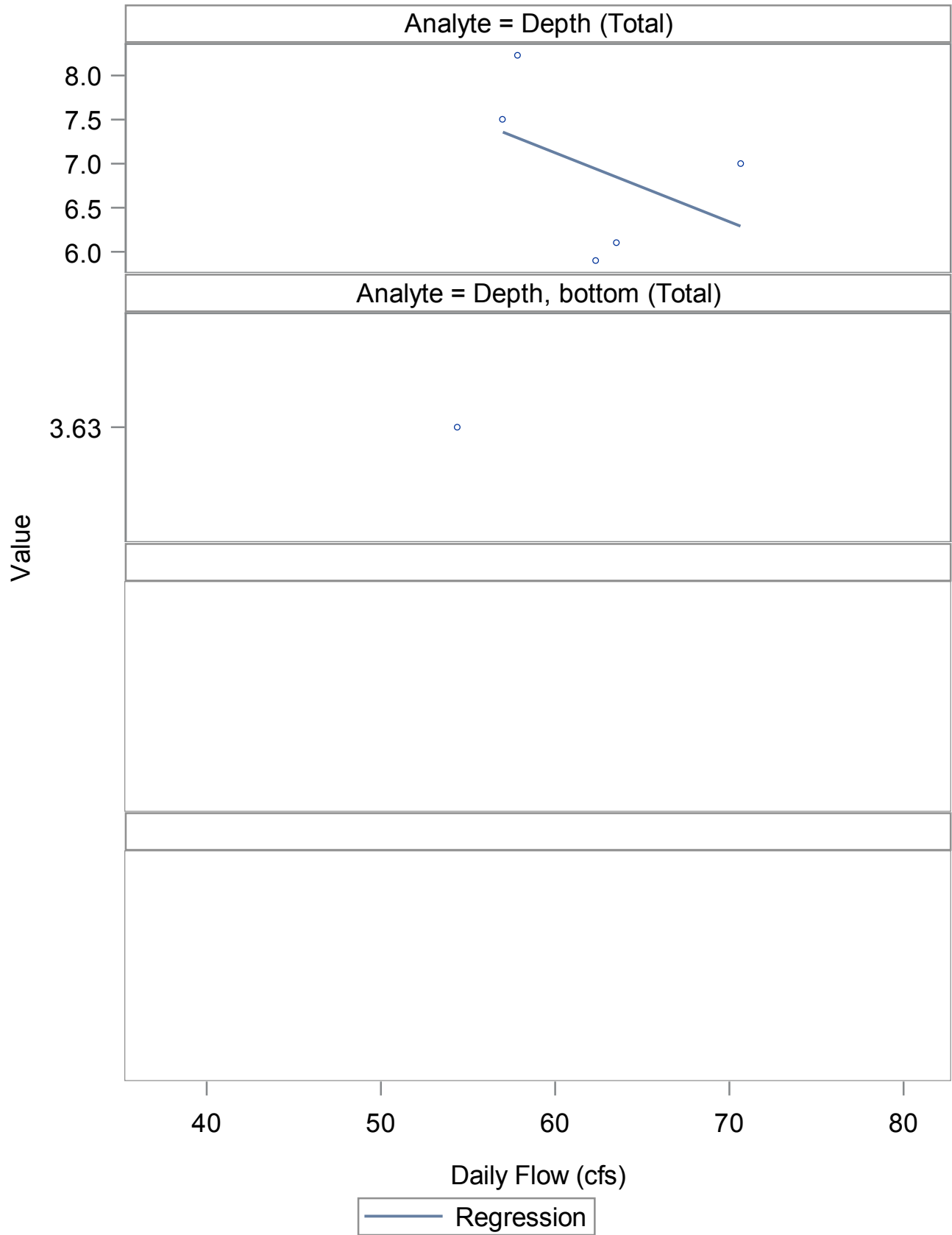
All Data Against Daily Flows

Source=P-889 Station=BETEE JAY SPRING Units=Gallons



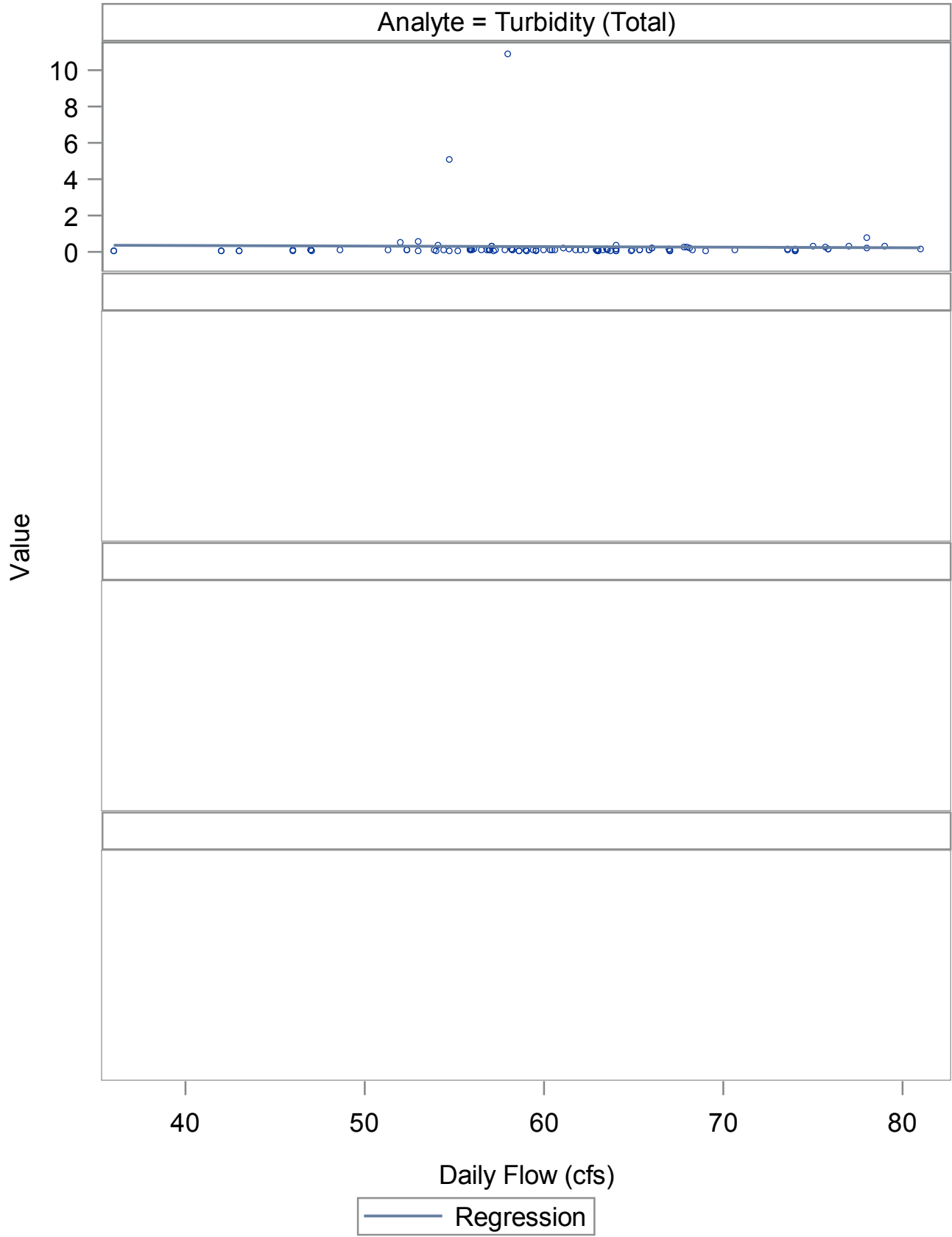
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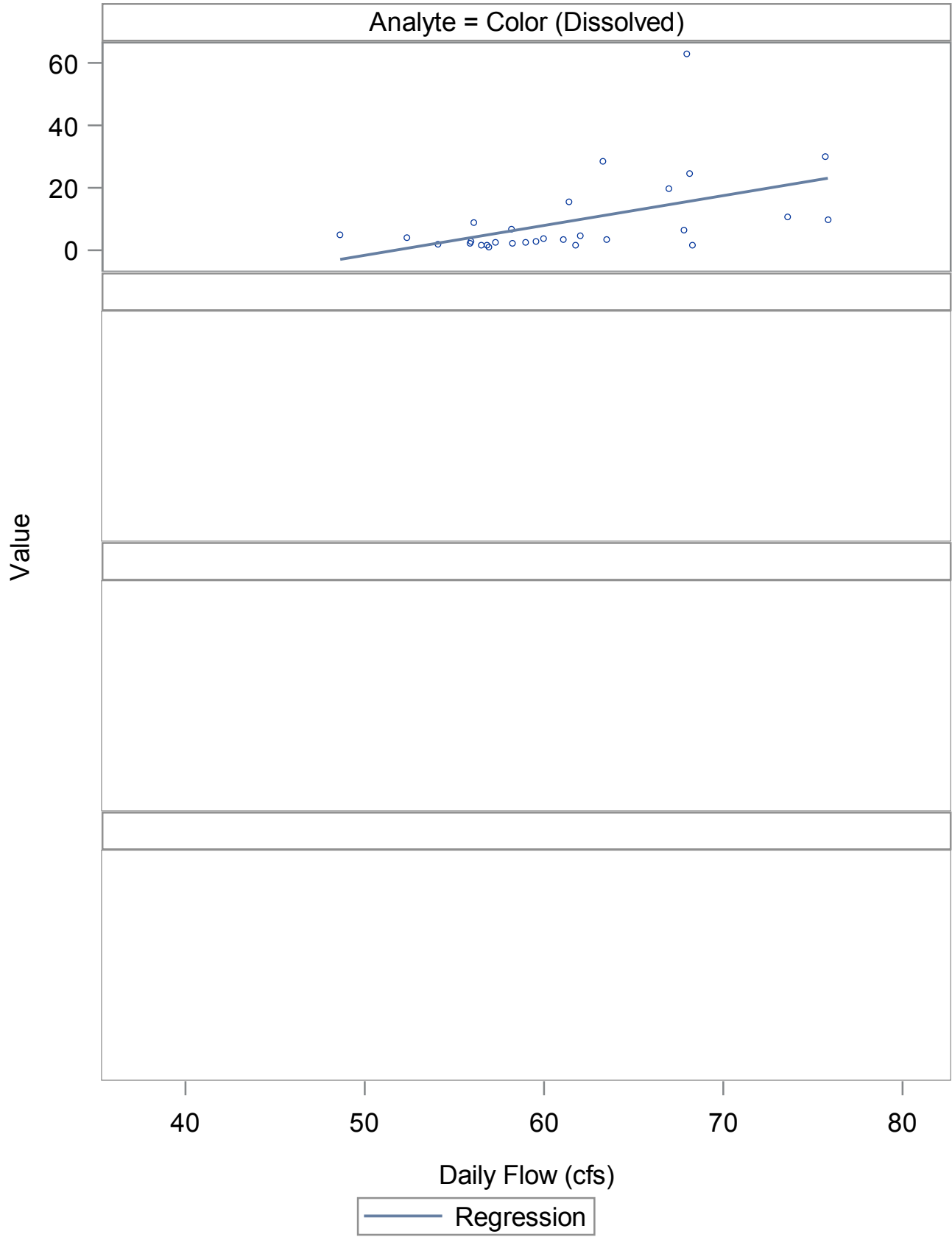
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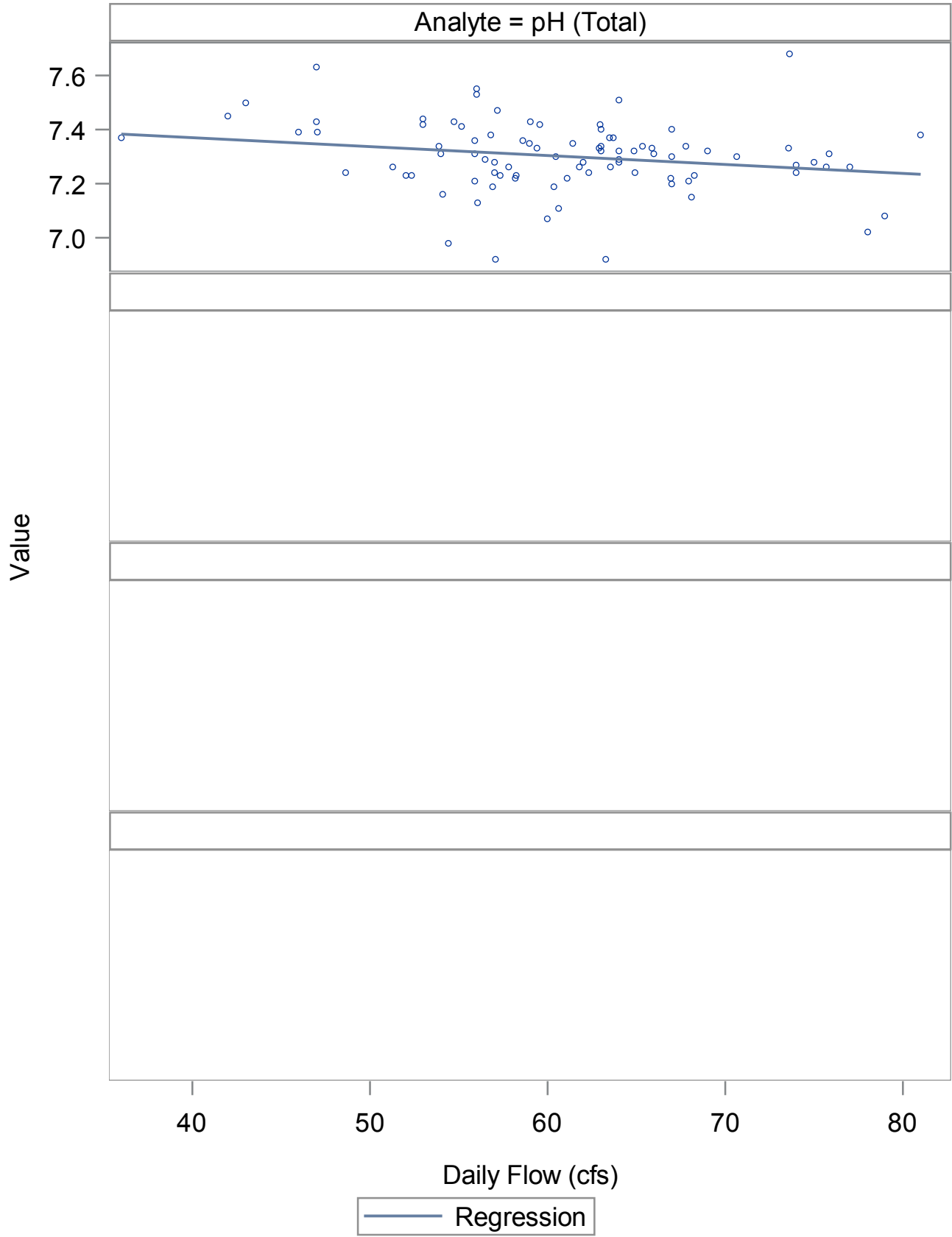
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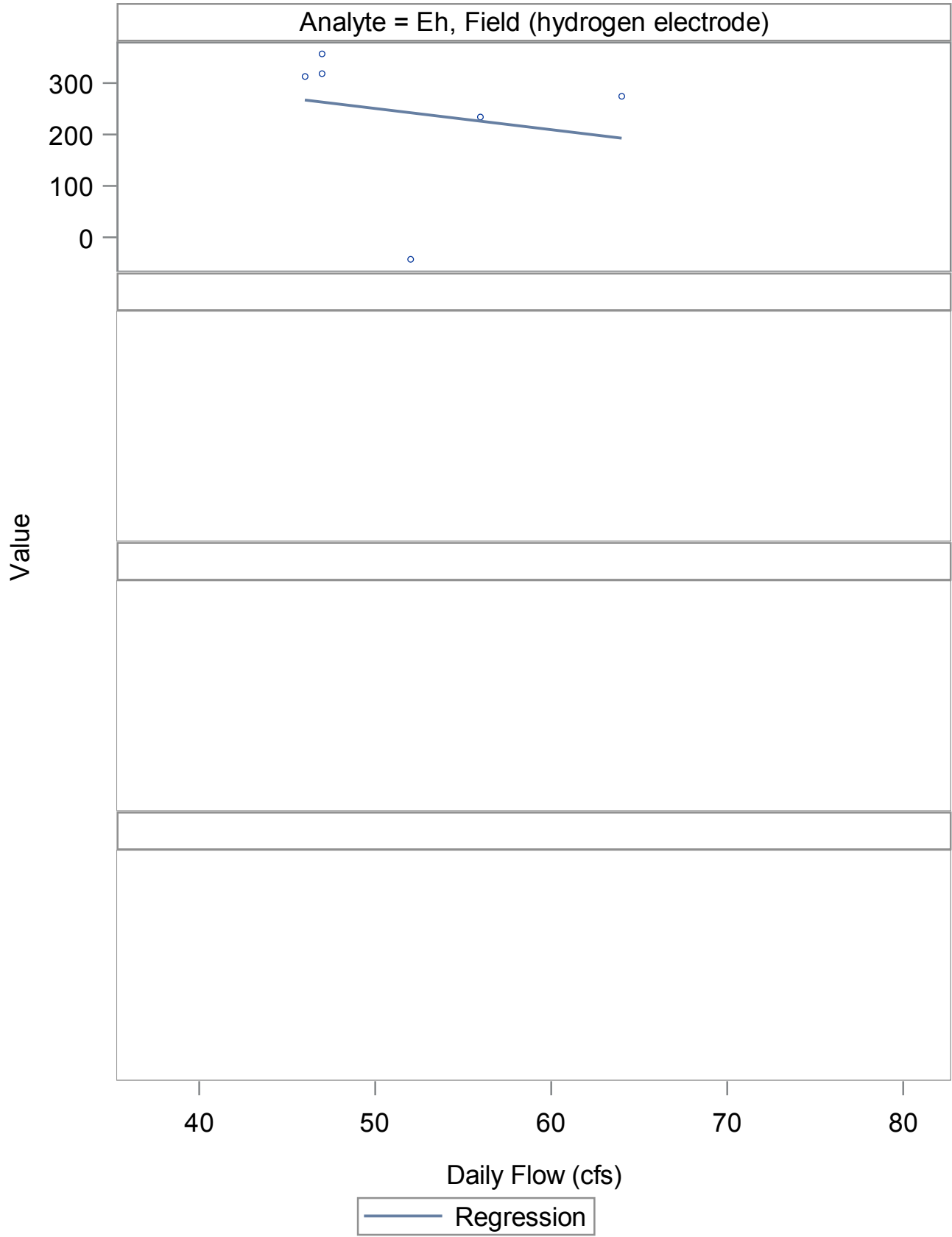
All Data Against Daily Flows

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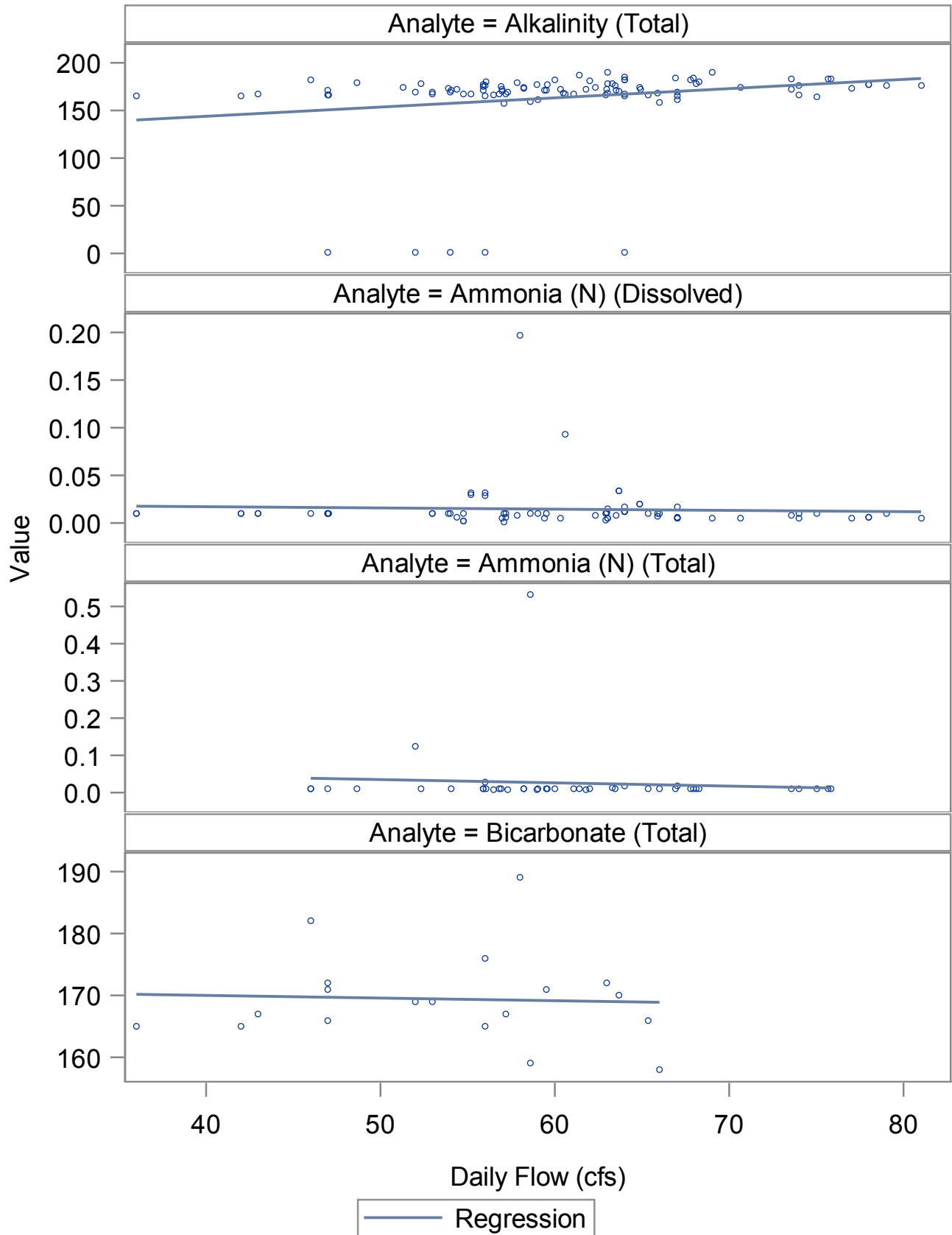
All Data Against Daily Flows

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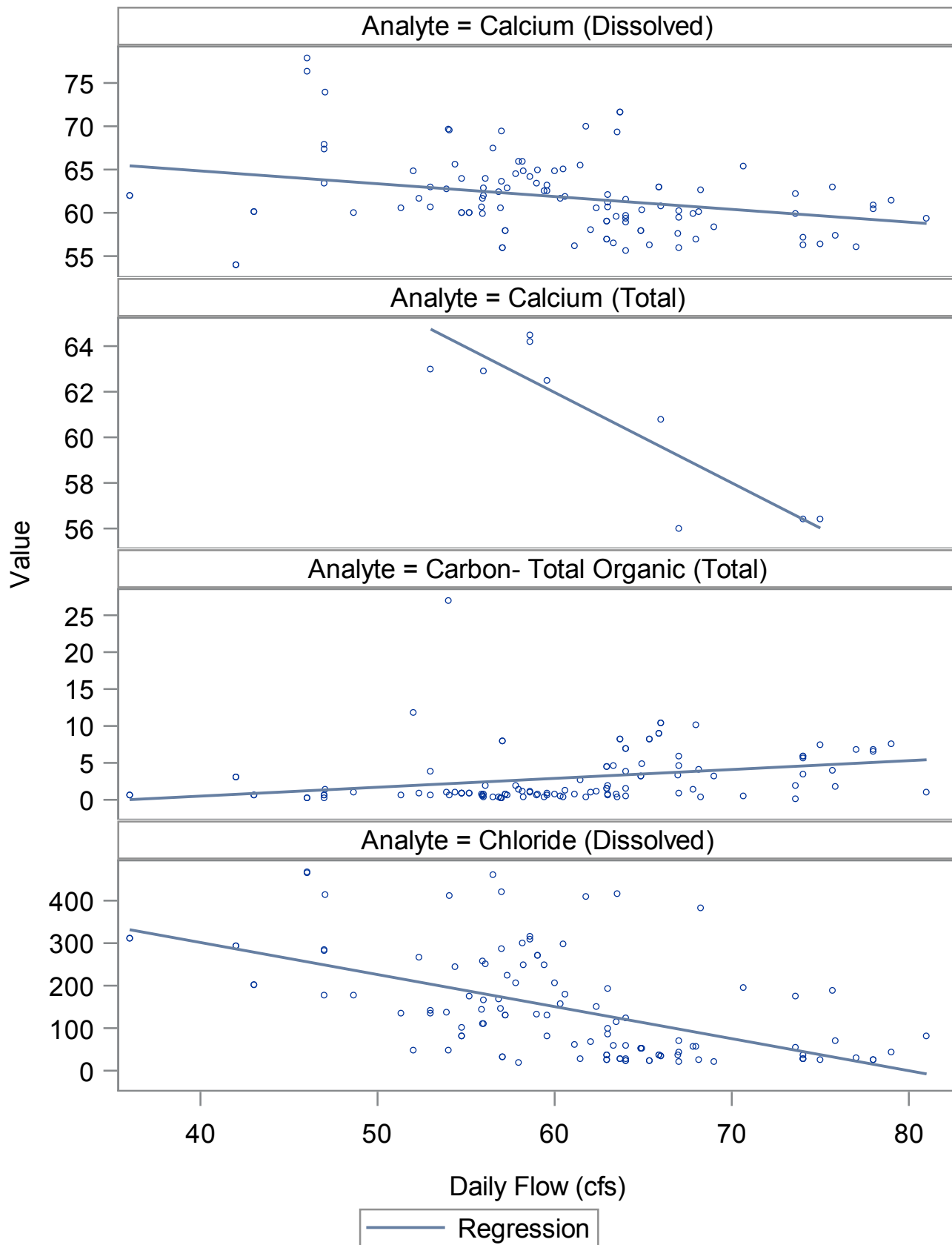
All Data Against Daily Flows

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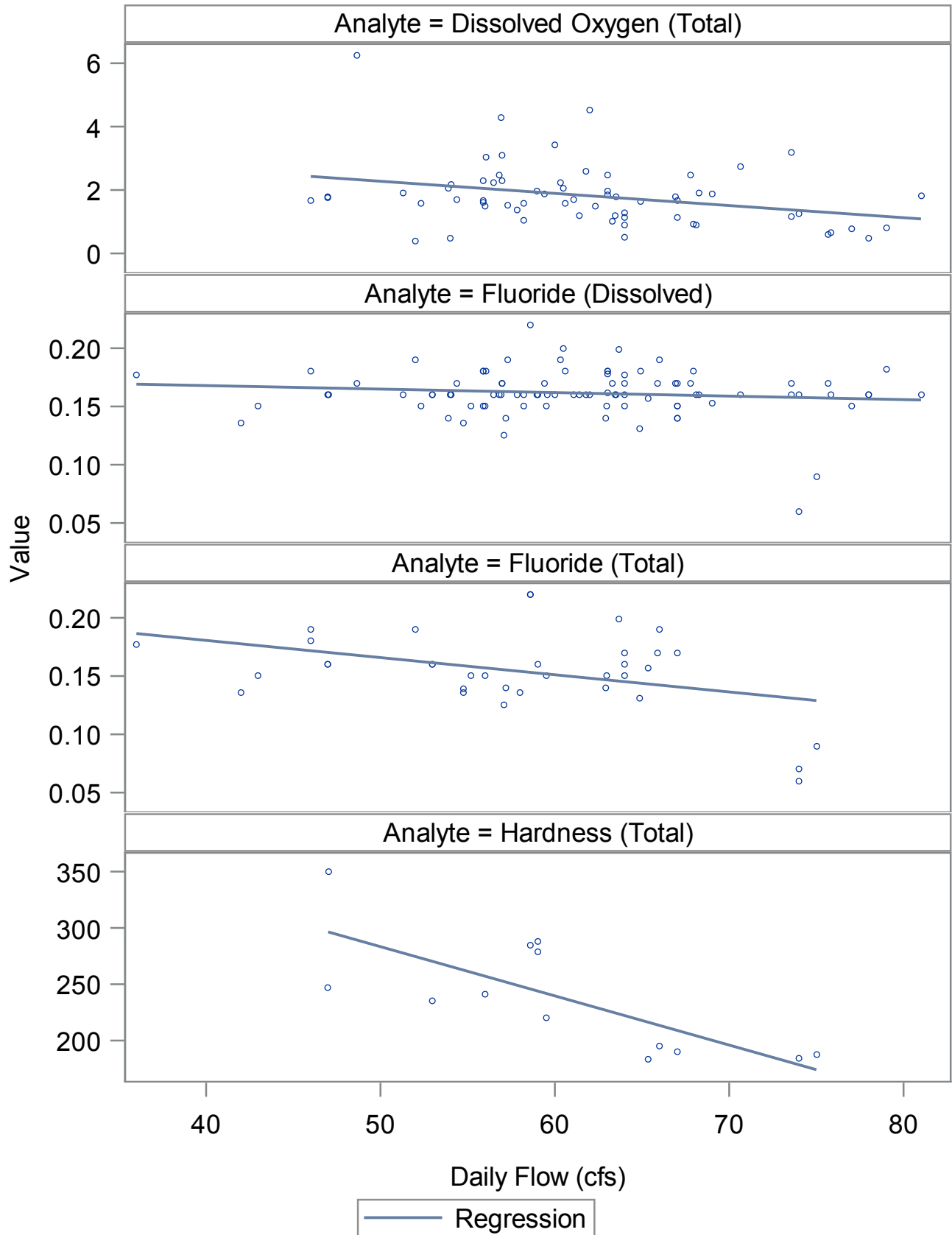
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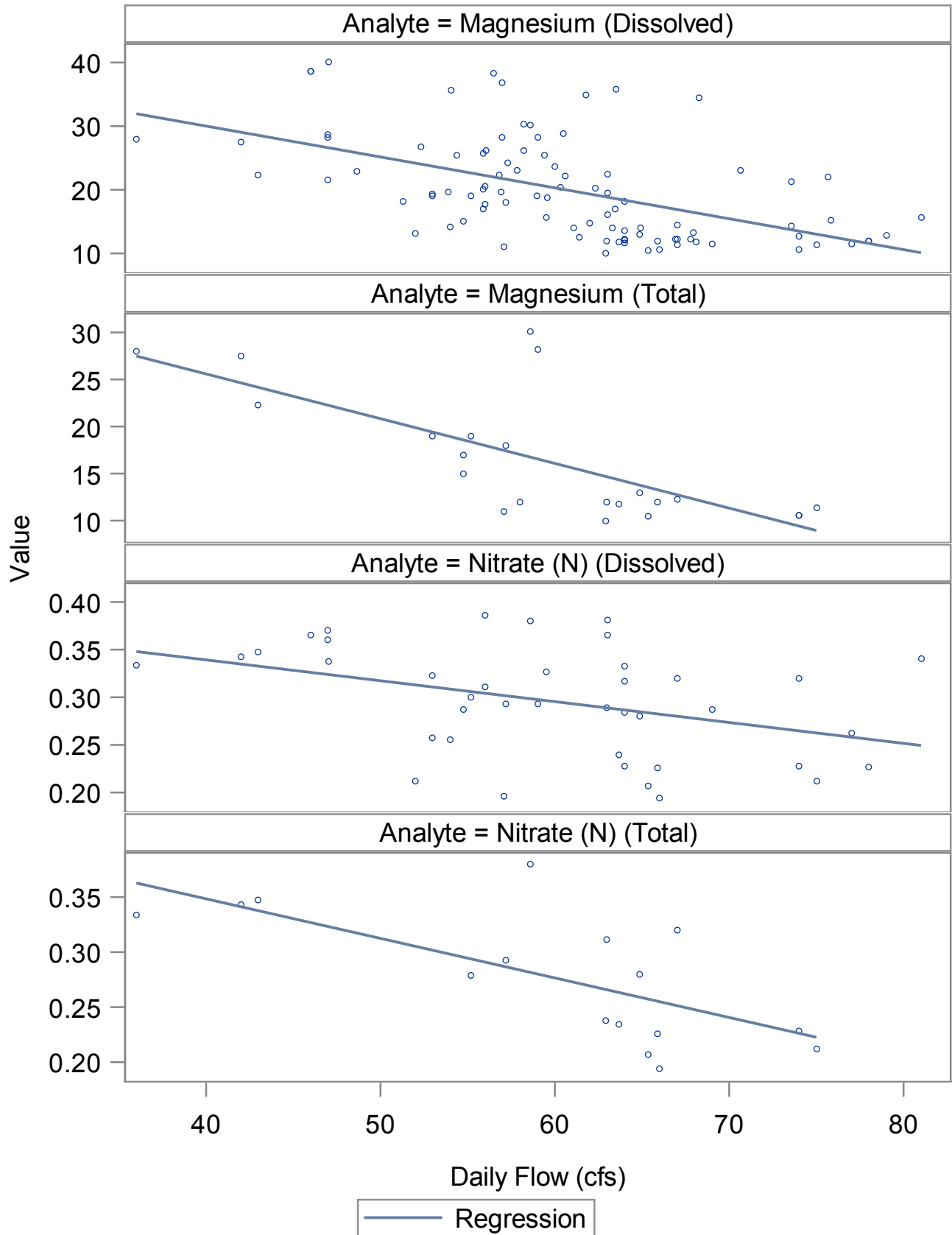
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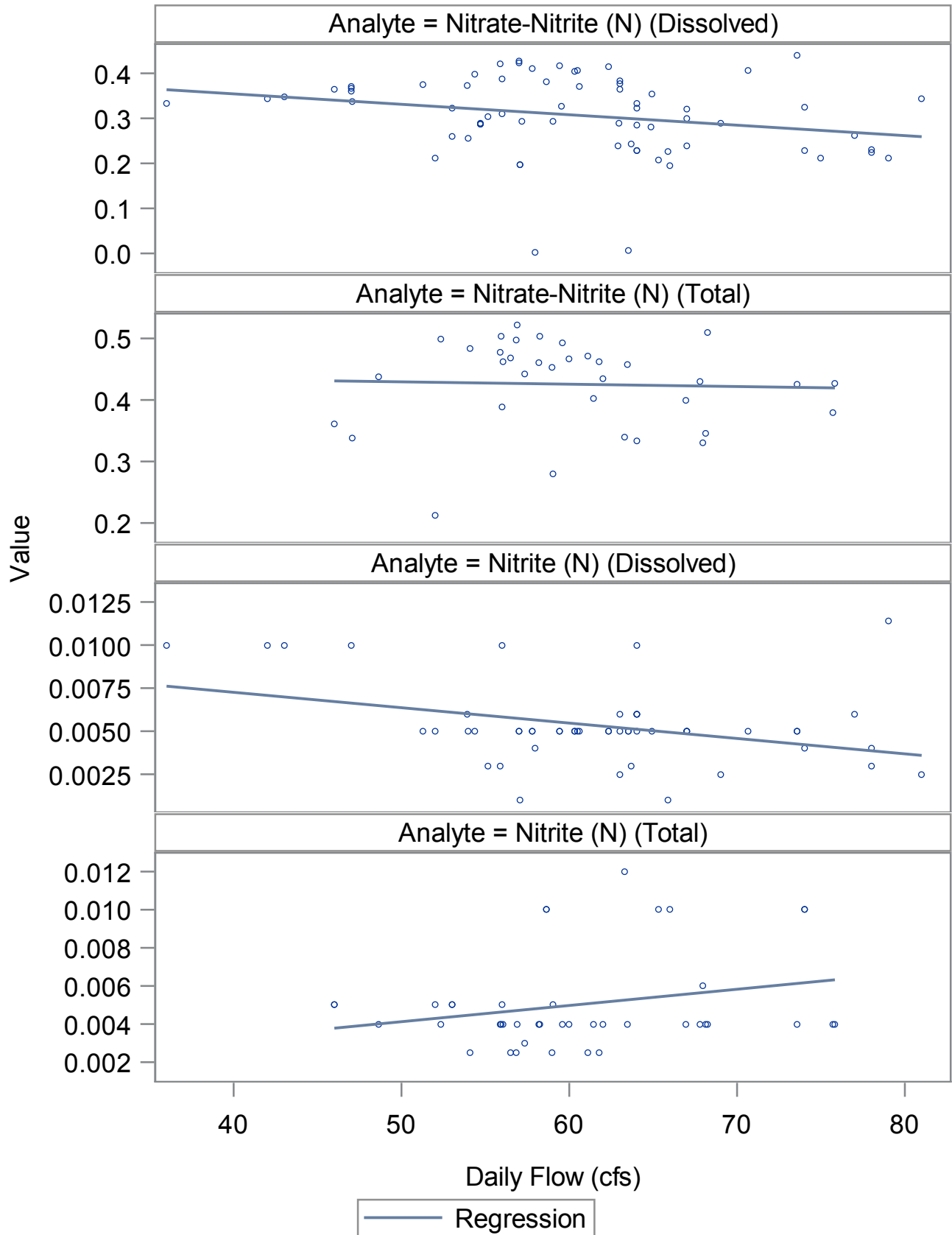
All Data Against Daily Flows

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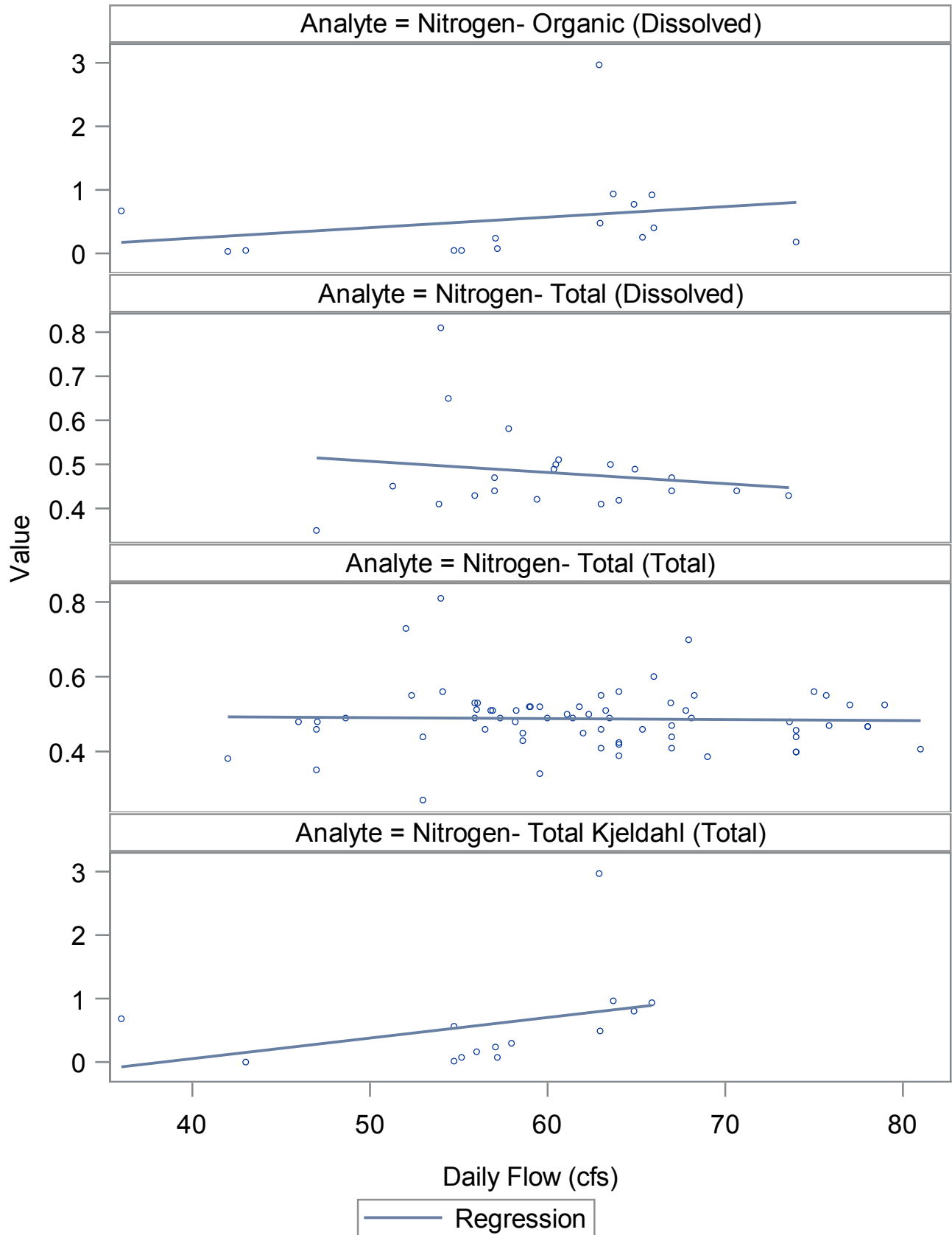
All Data Against Daily Flows

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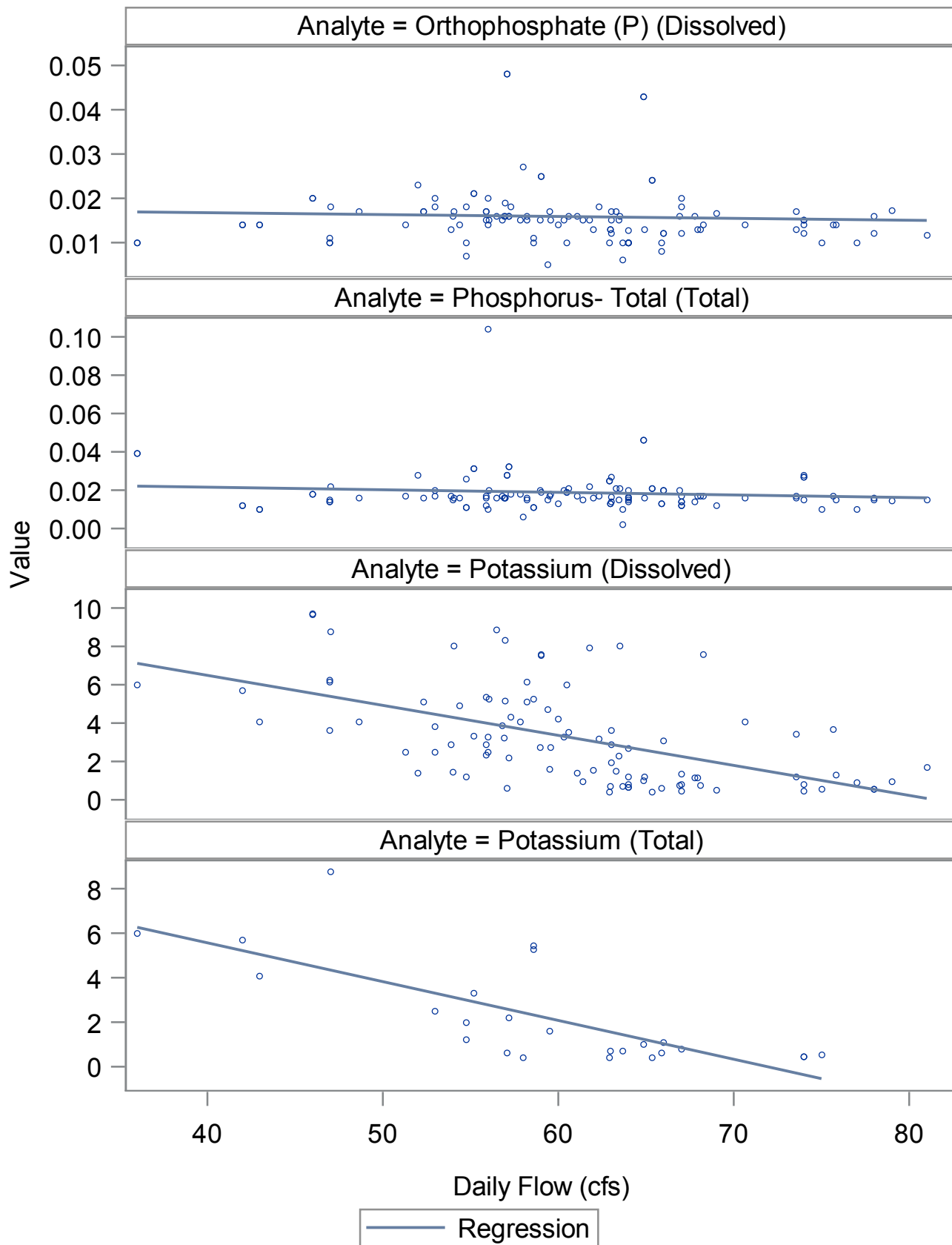
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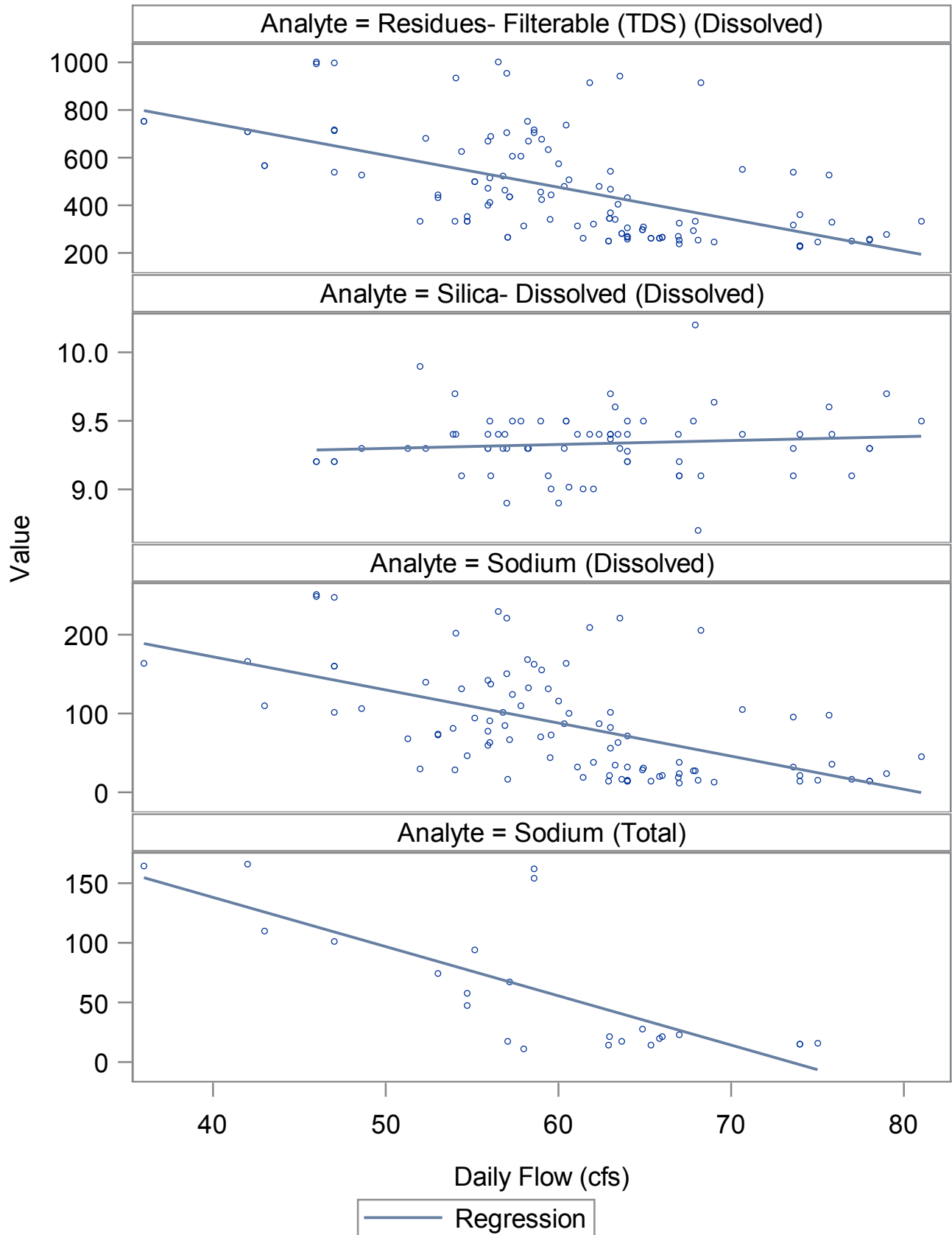
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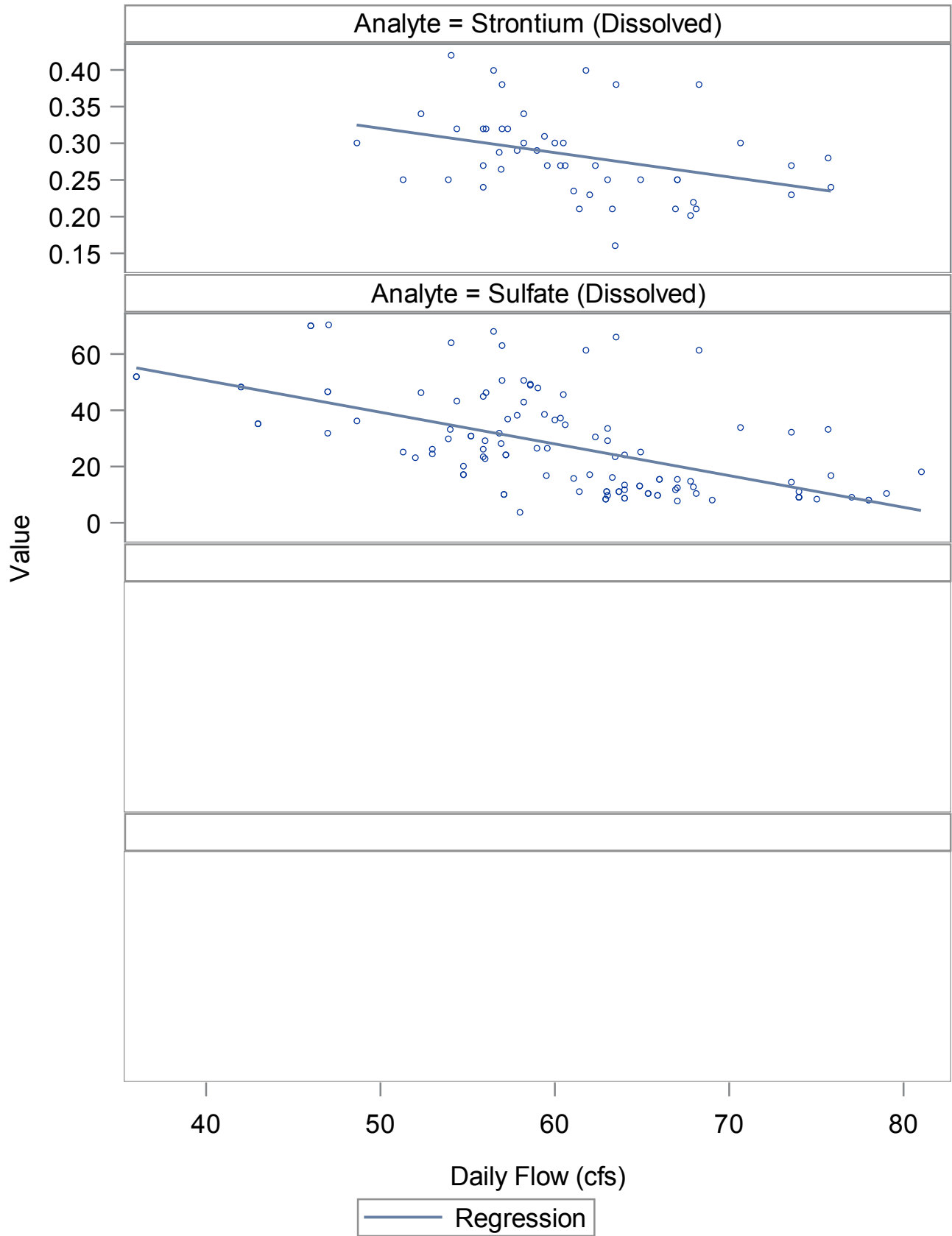
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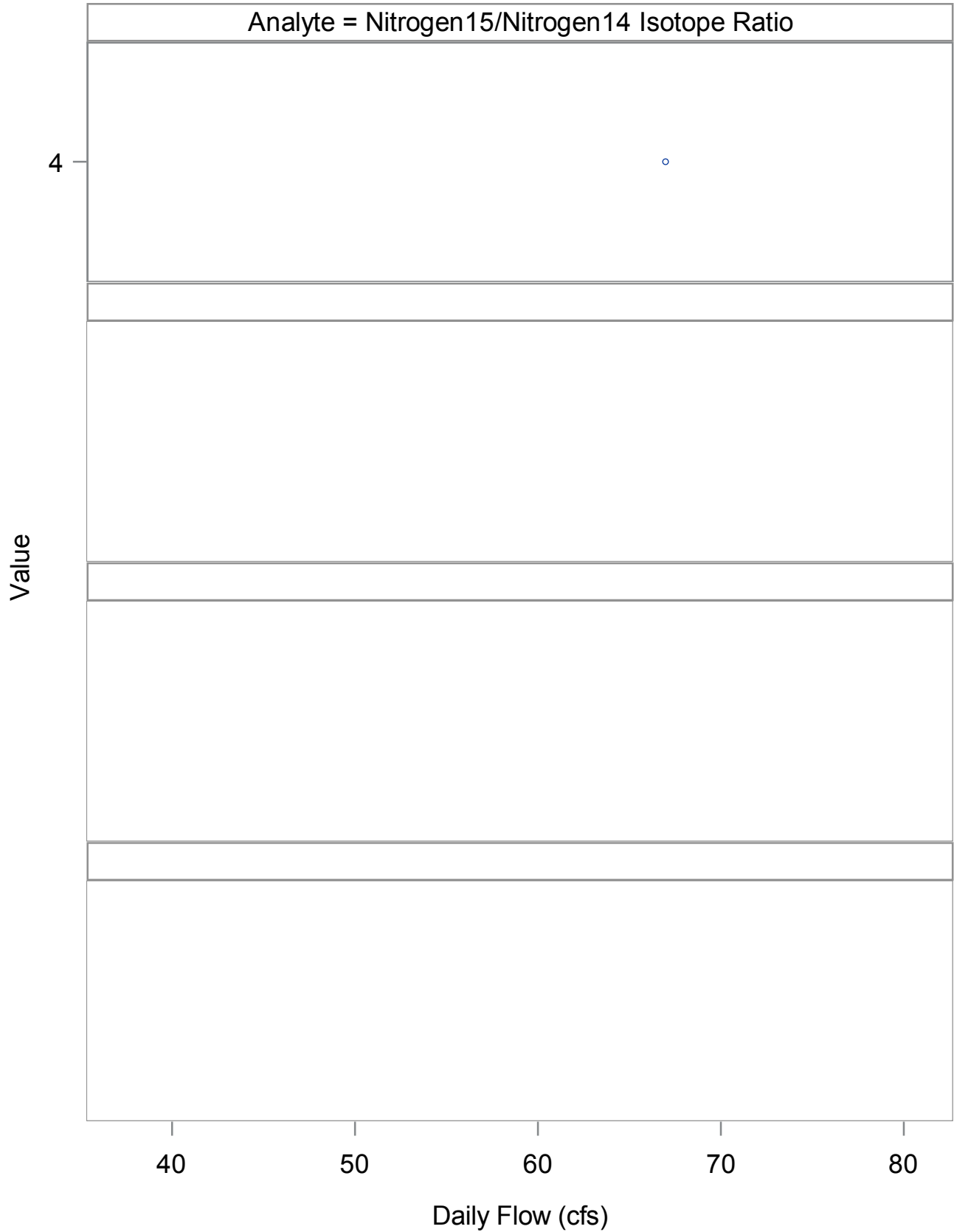
All Data Against Daily Flows

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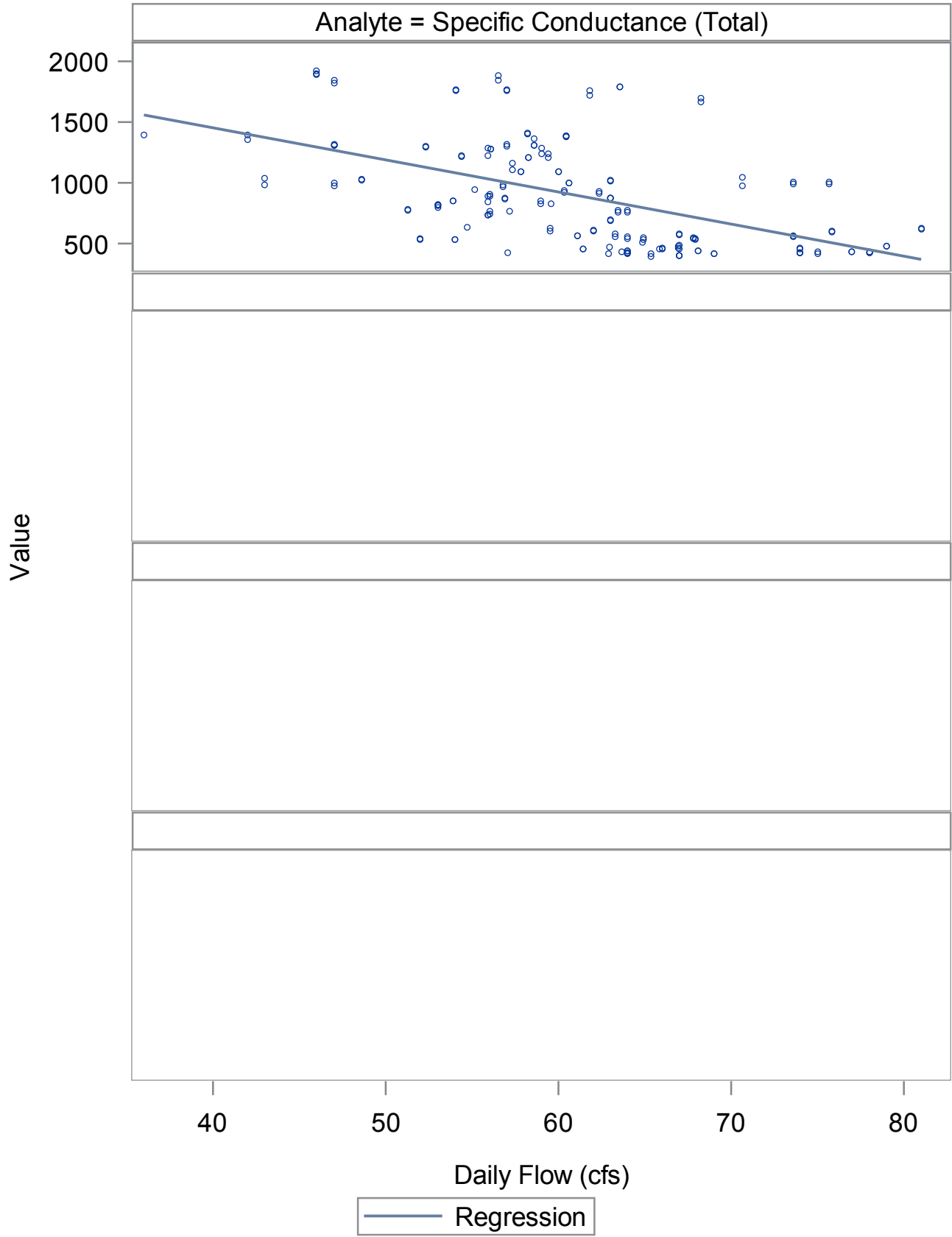
All Data Against Daily Flows

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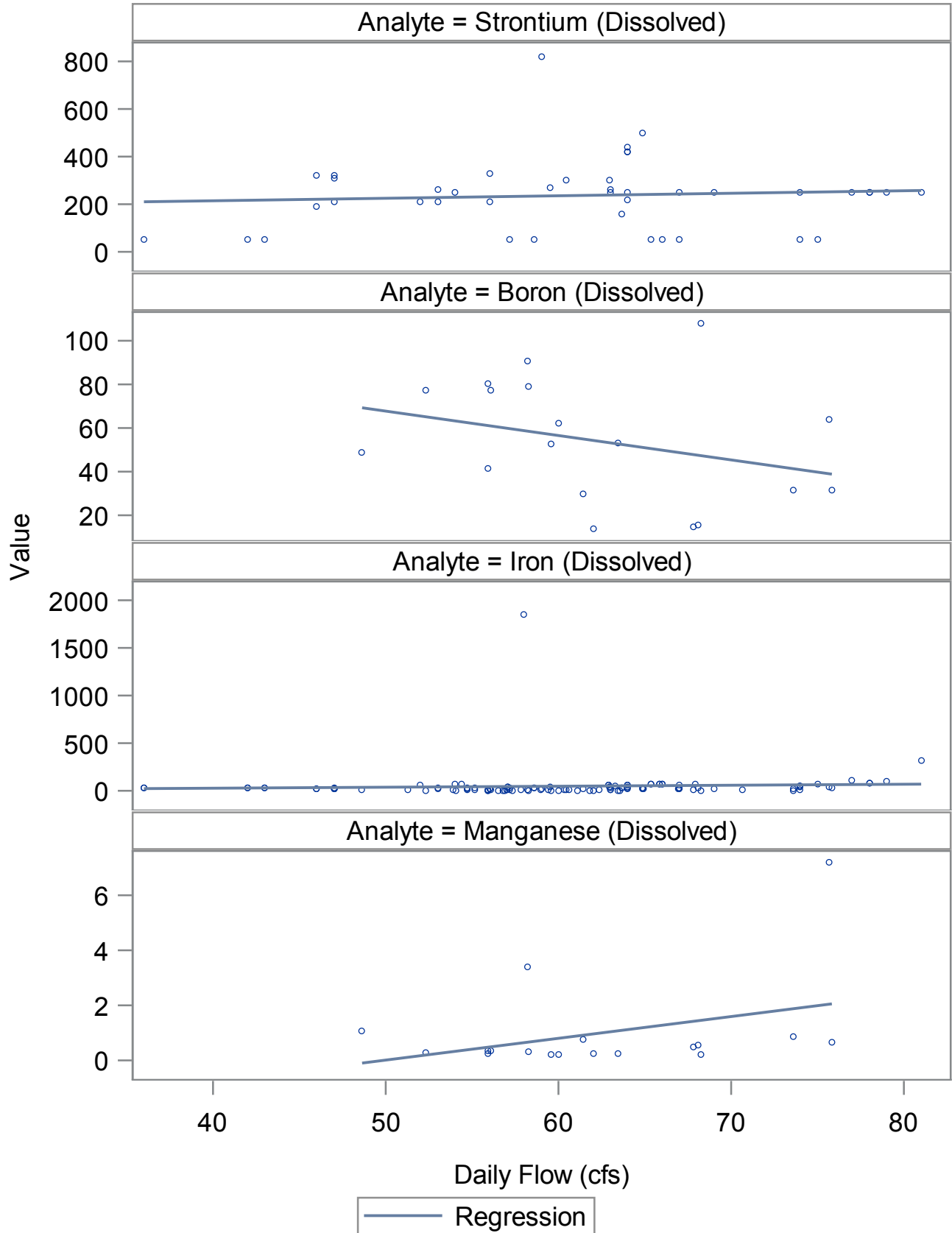
All Data Against Daily Flows

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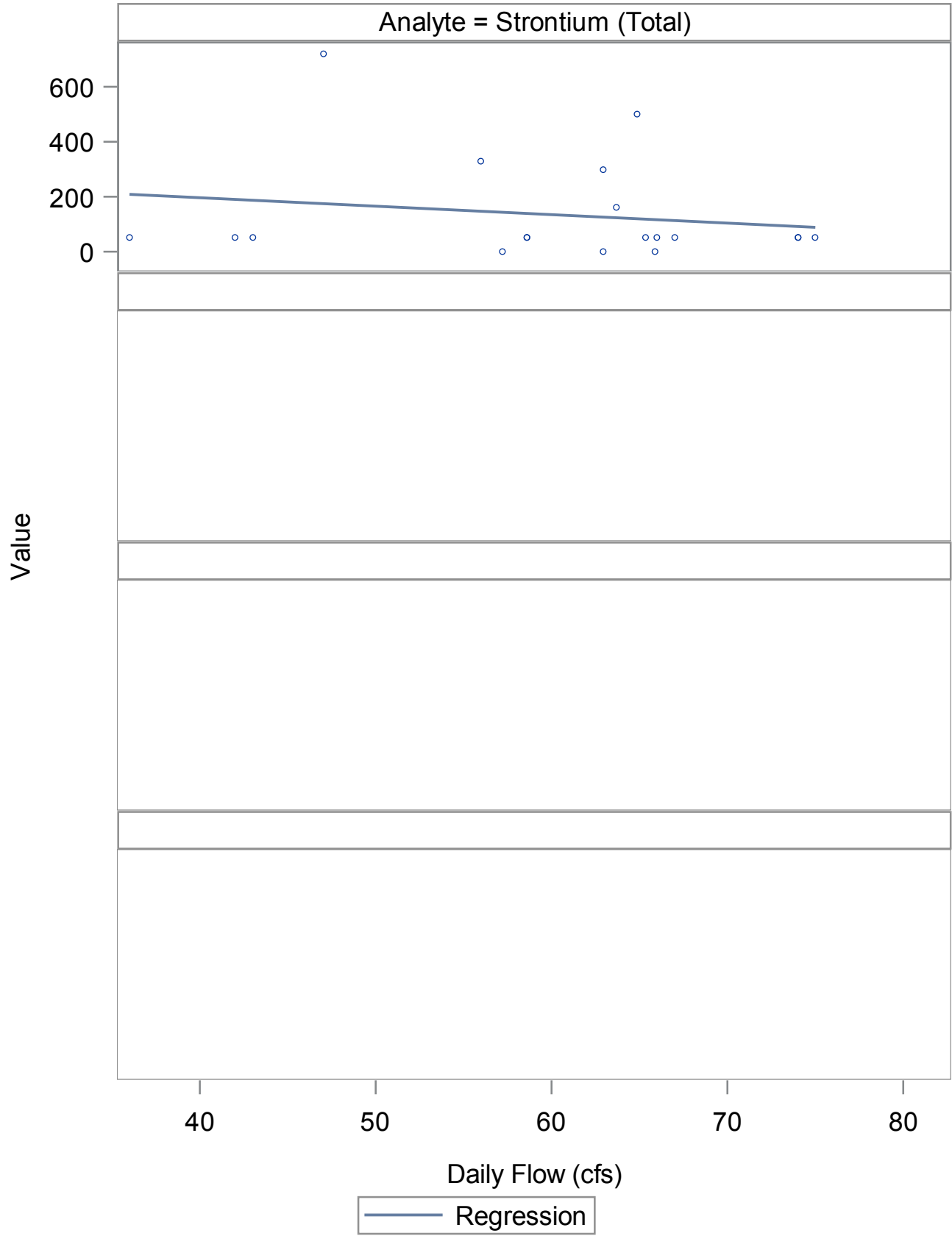
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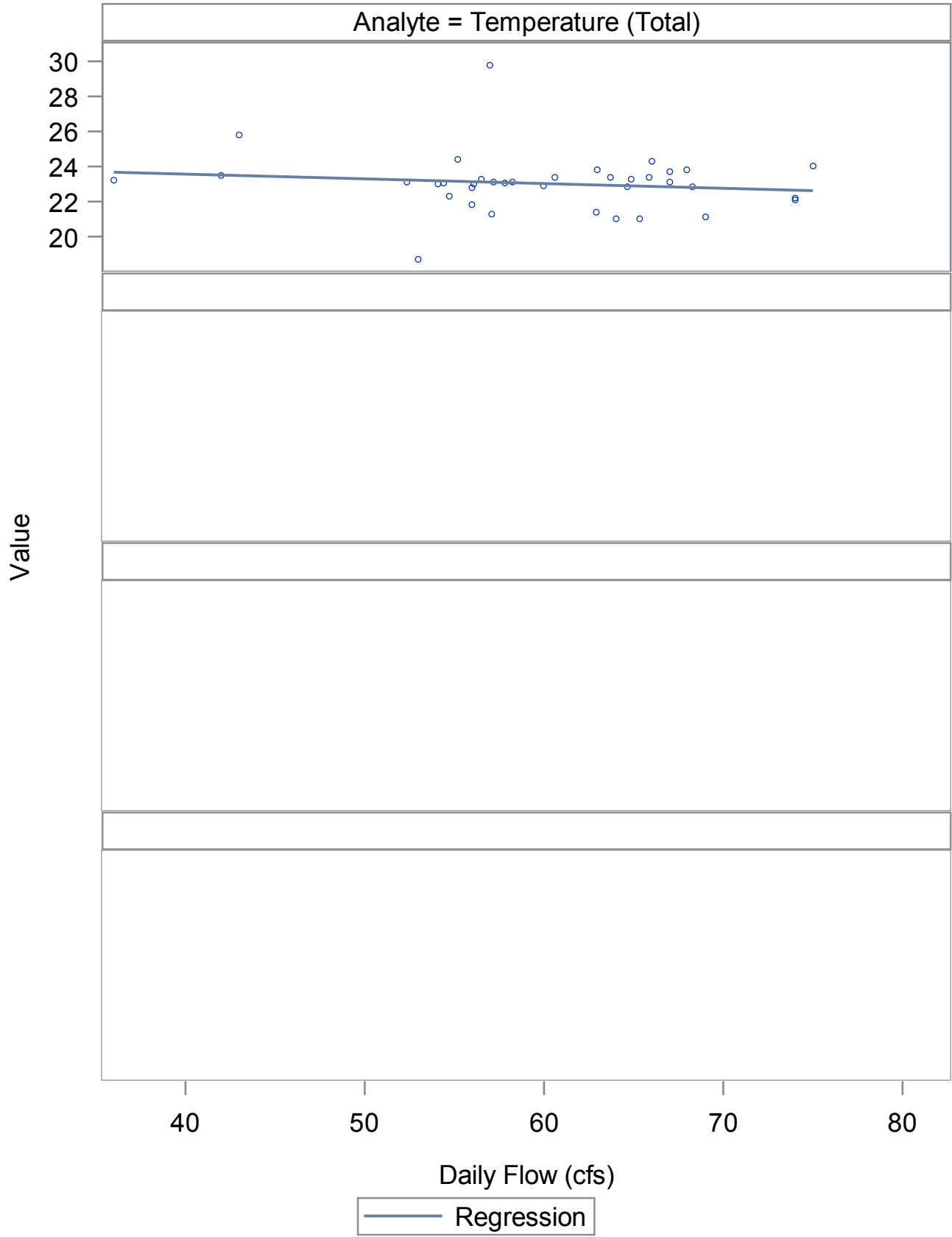
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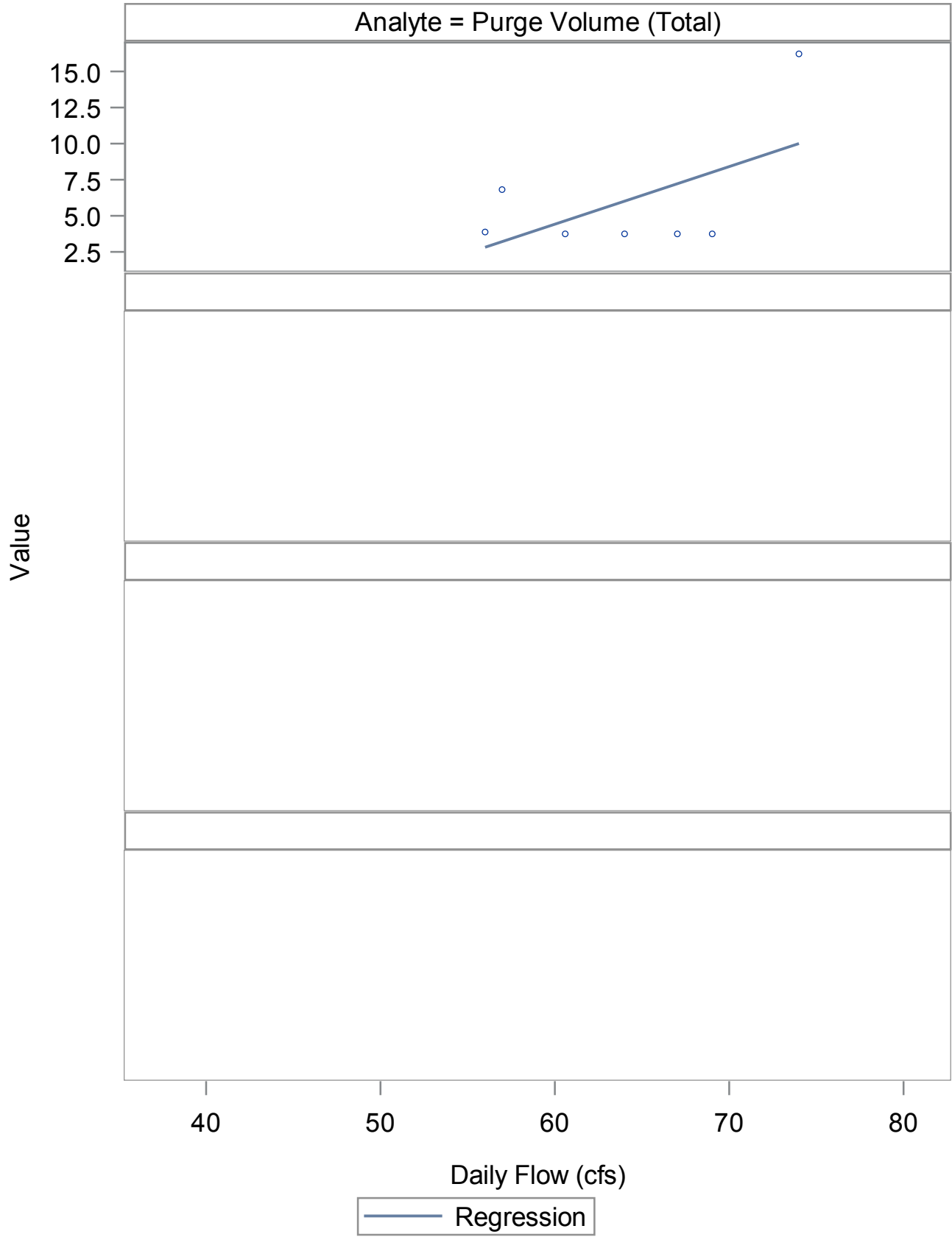
All Data Against Daily Flows

Source=P-889 Station=BLUE RUN SPRING Units=Deg. C



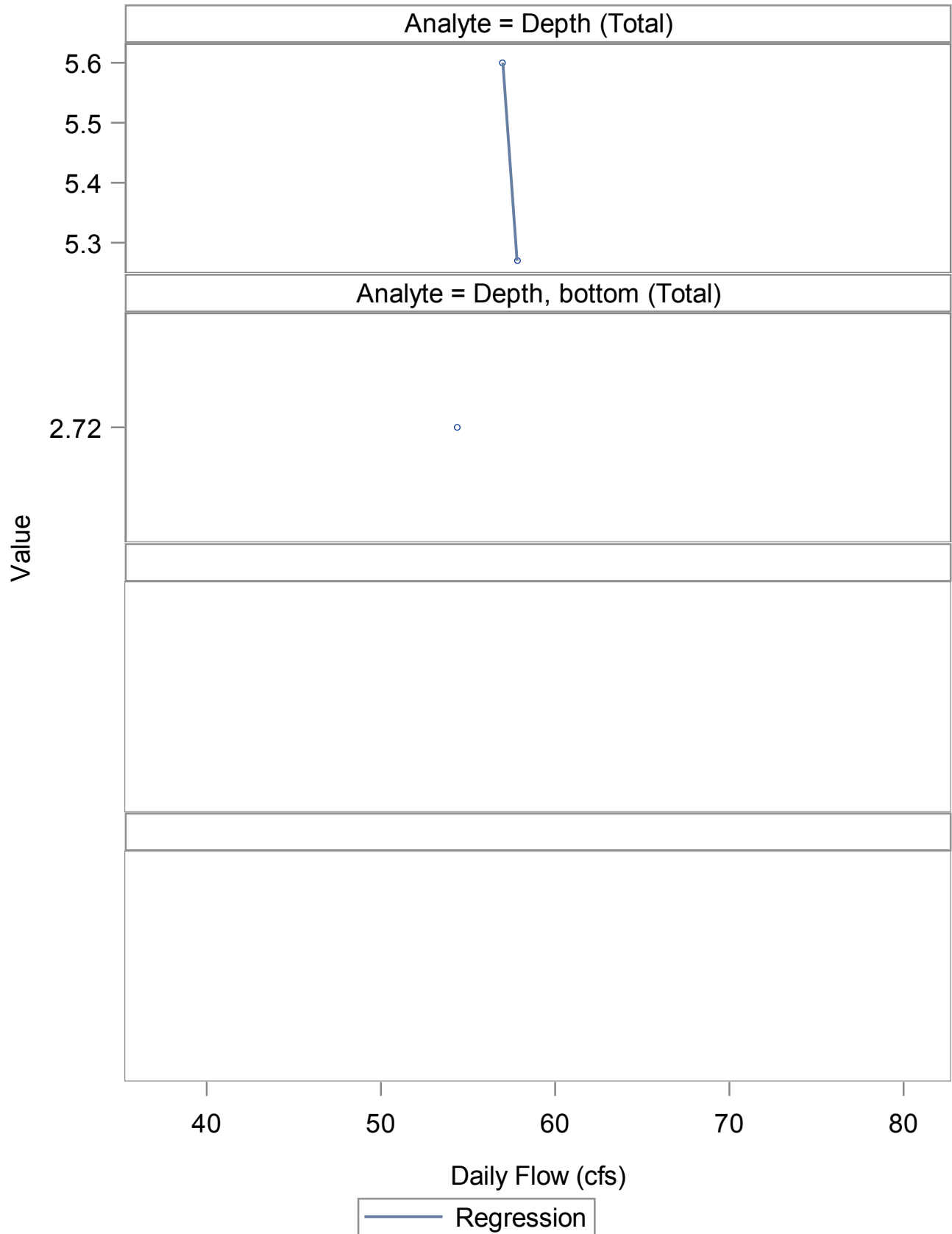
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Source=P-889 Station=BLUE RUN SPRING Units=Gallons



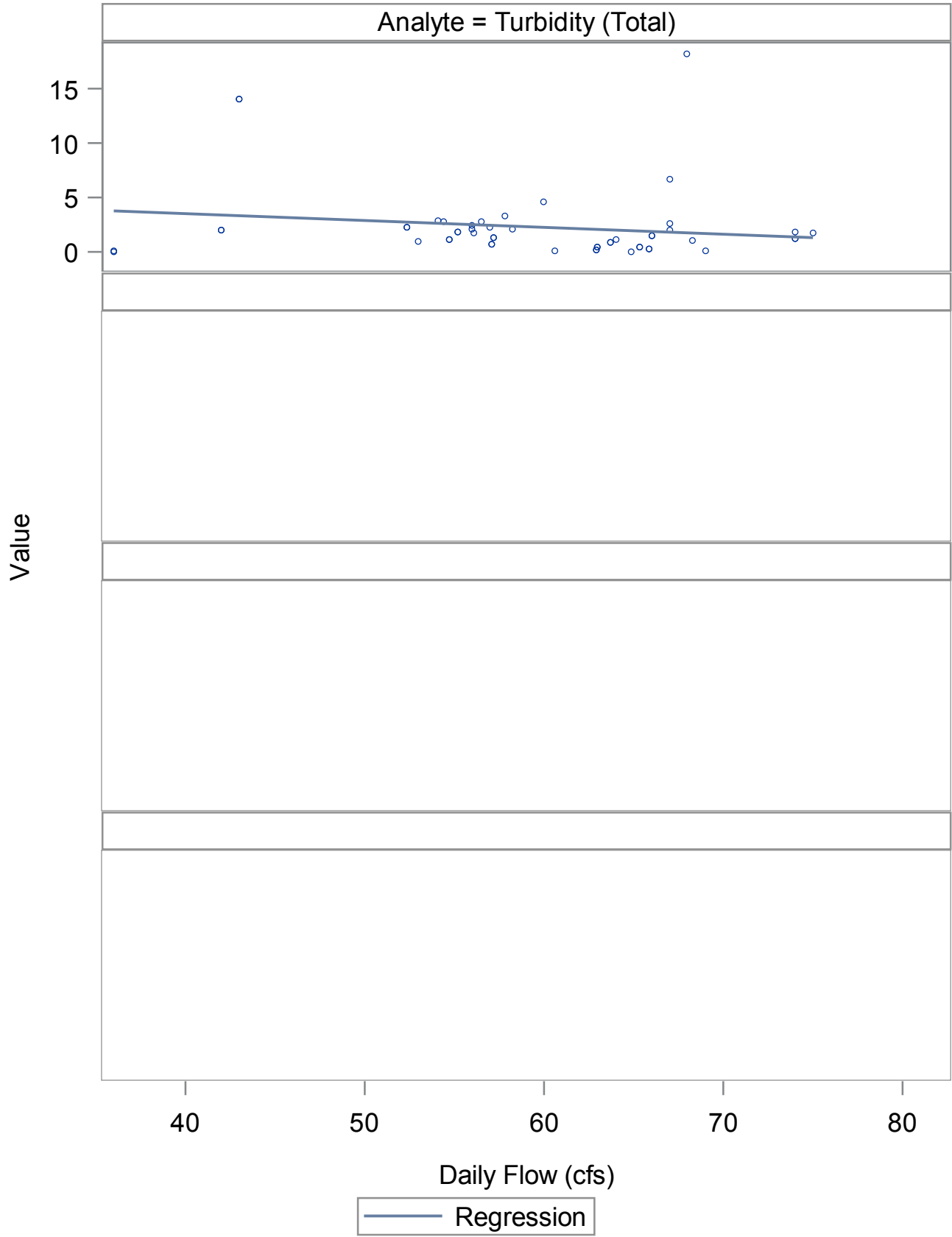
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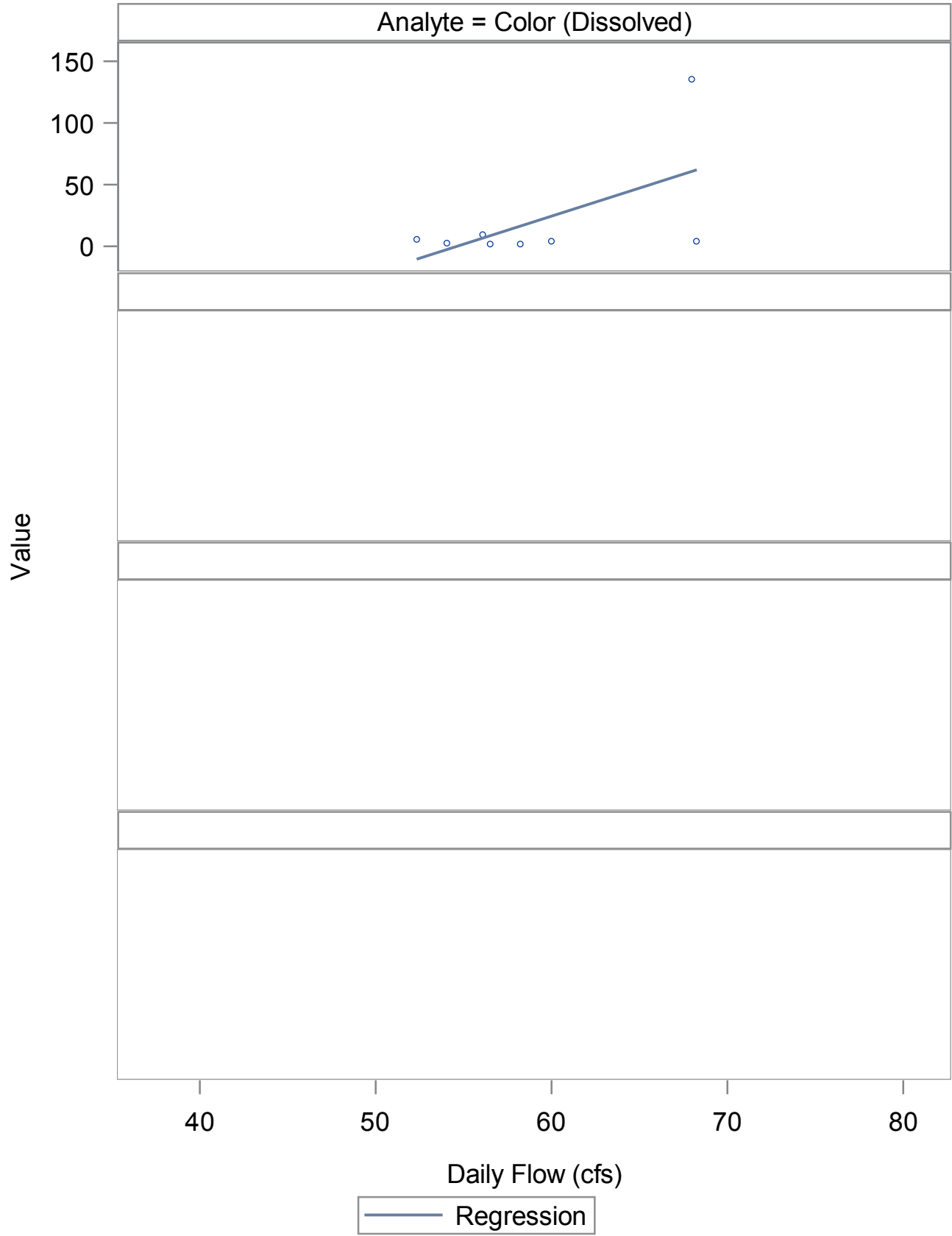
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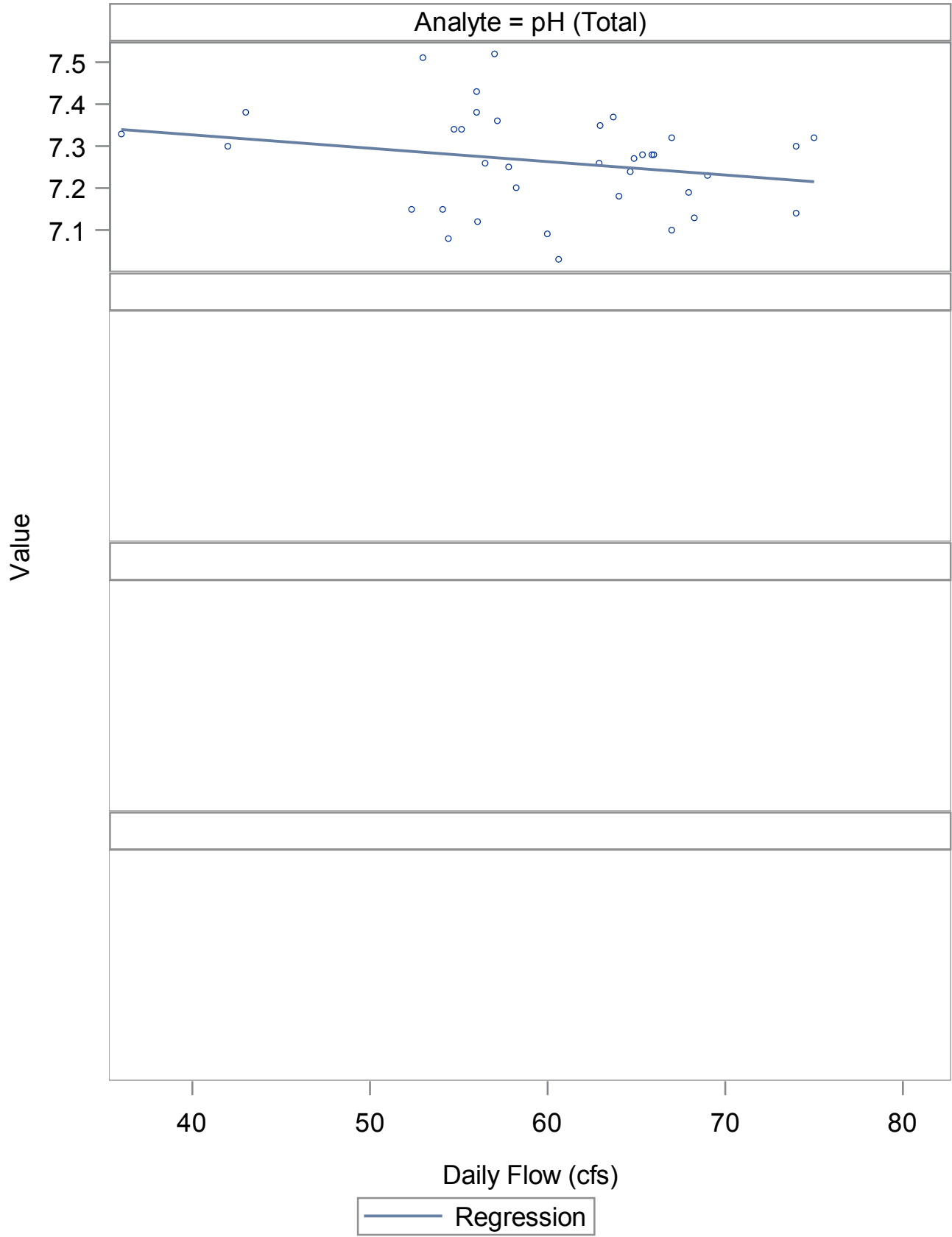
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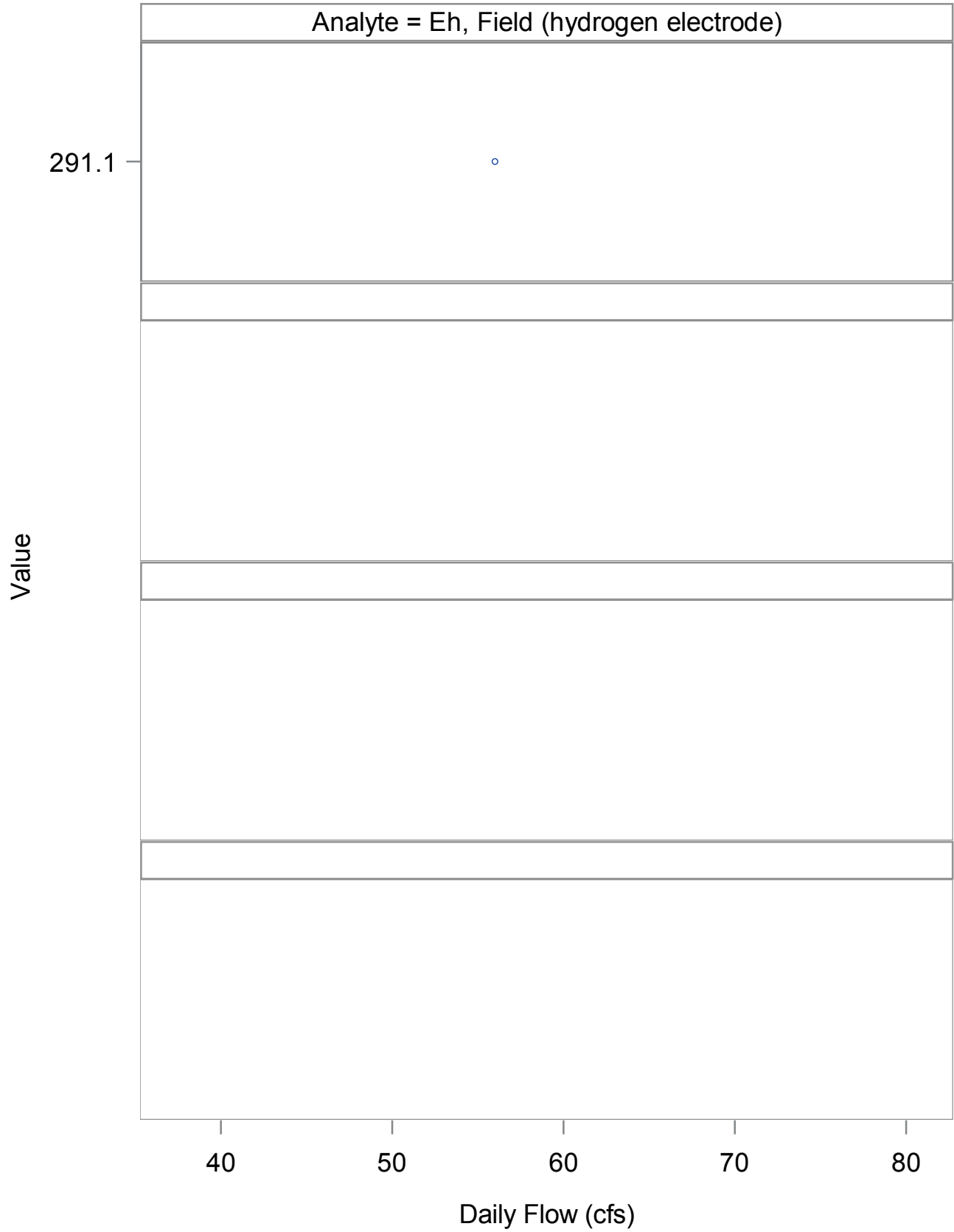
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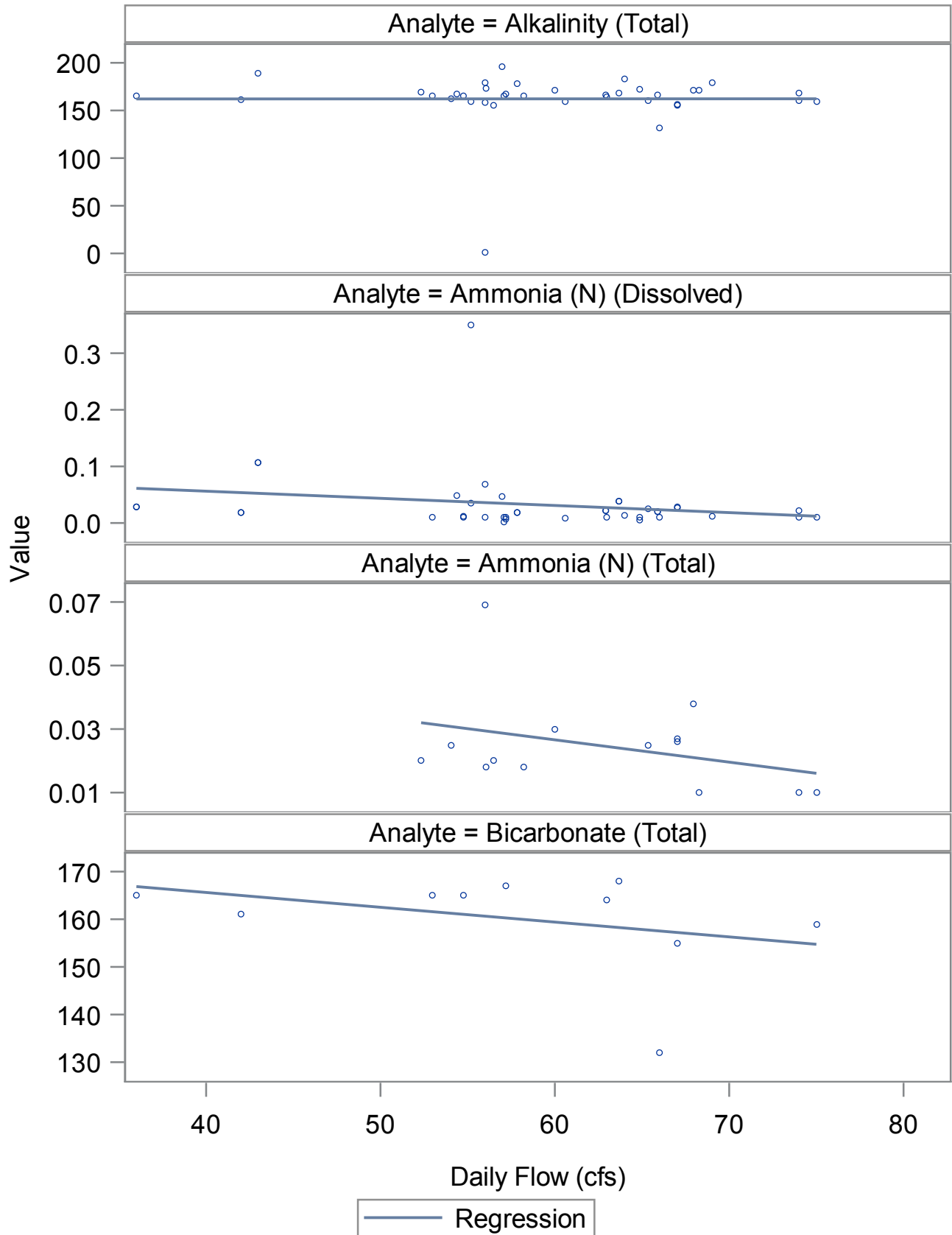
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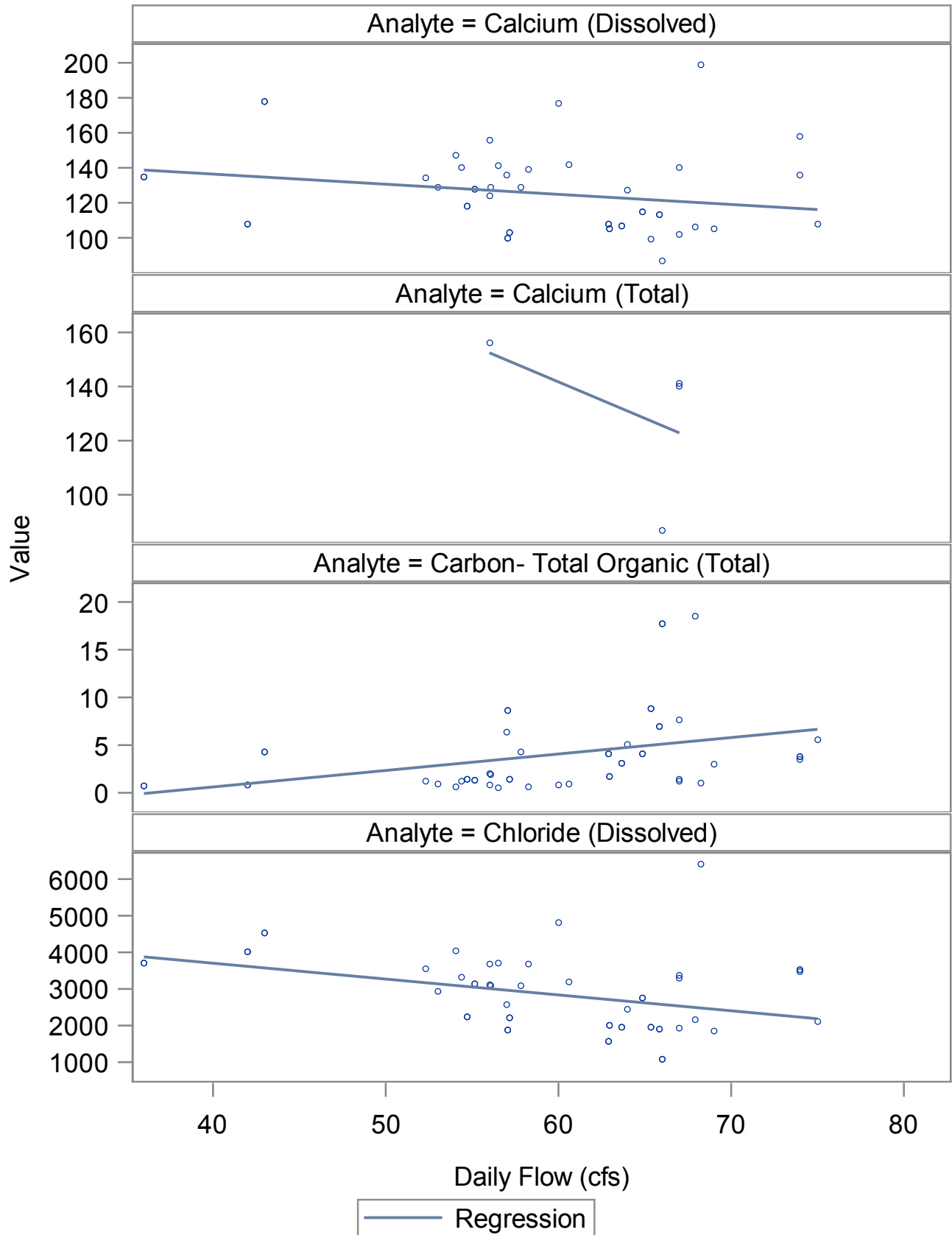
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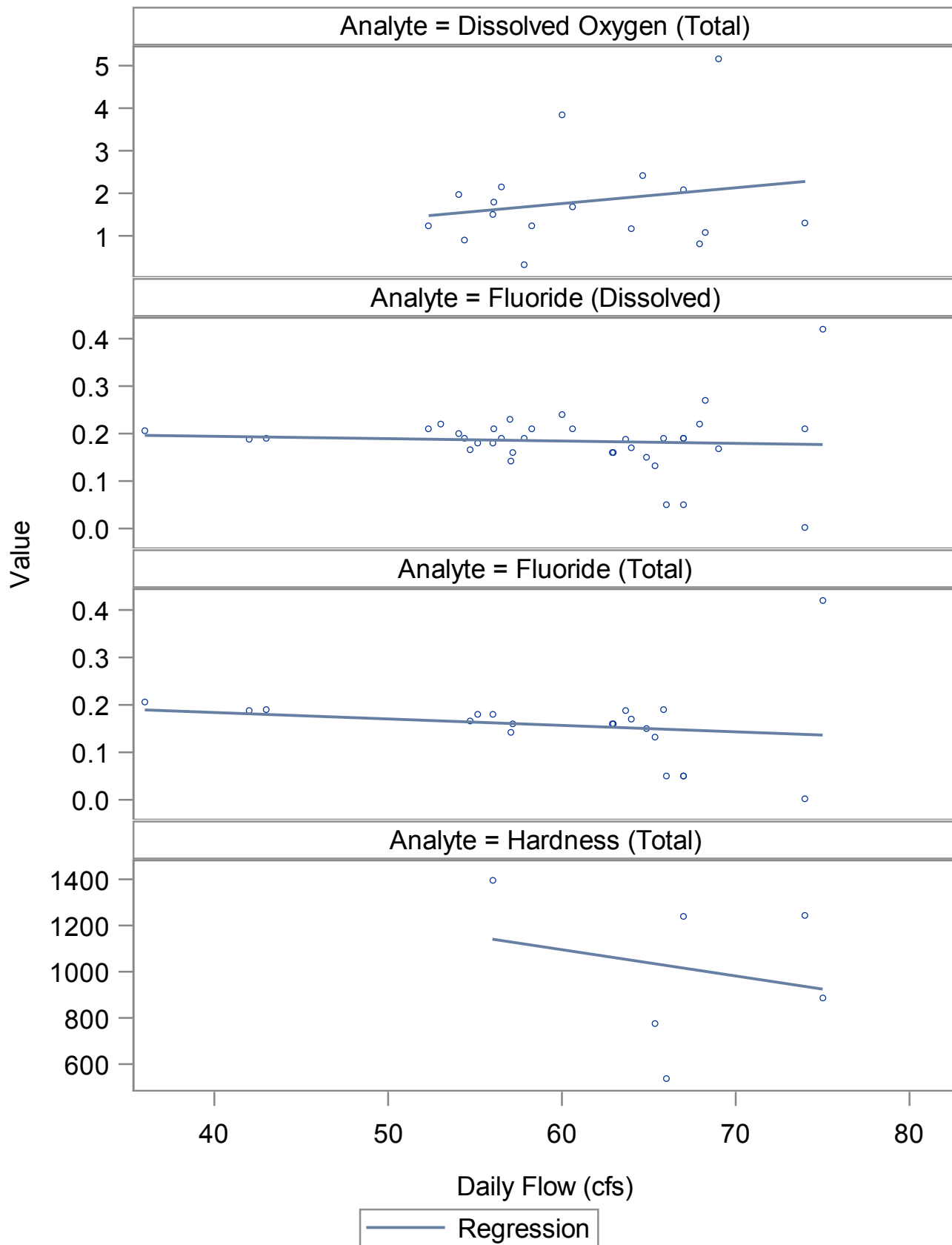
All Data Against Daily Flows

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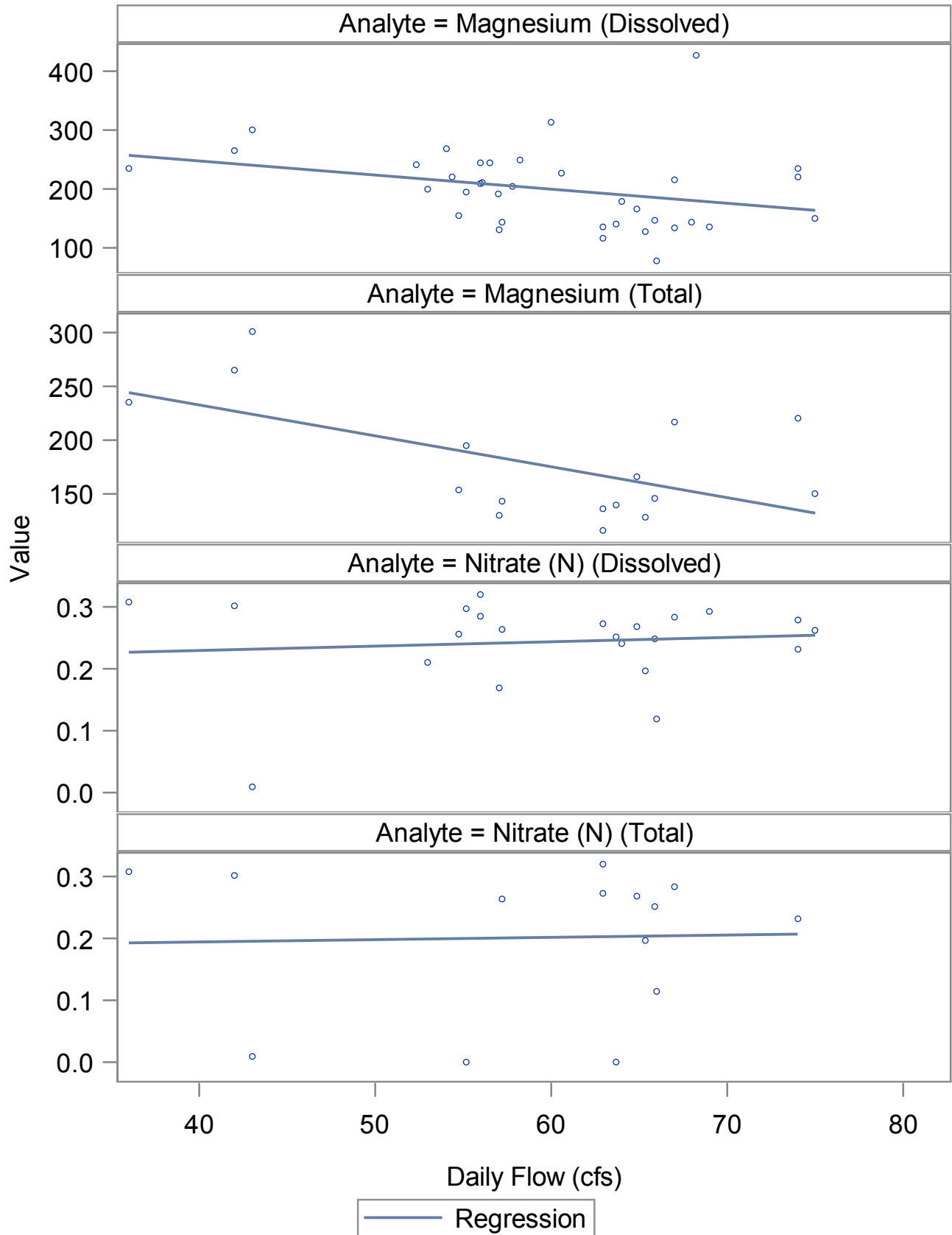
All Data Against Daily Flows

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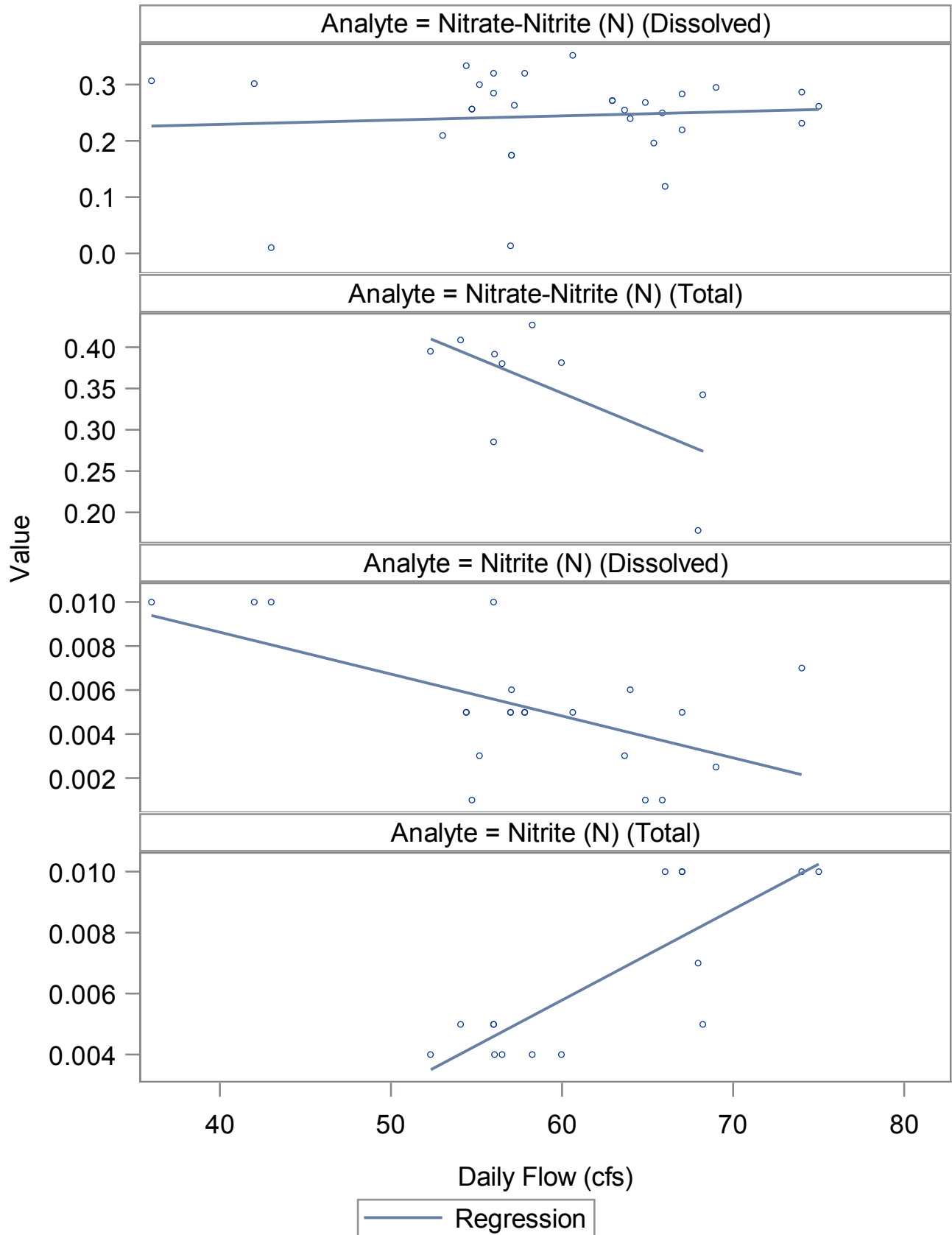
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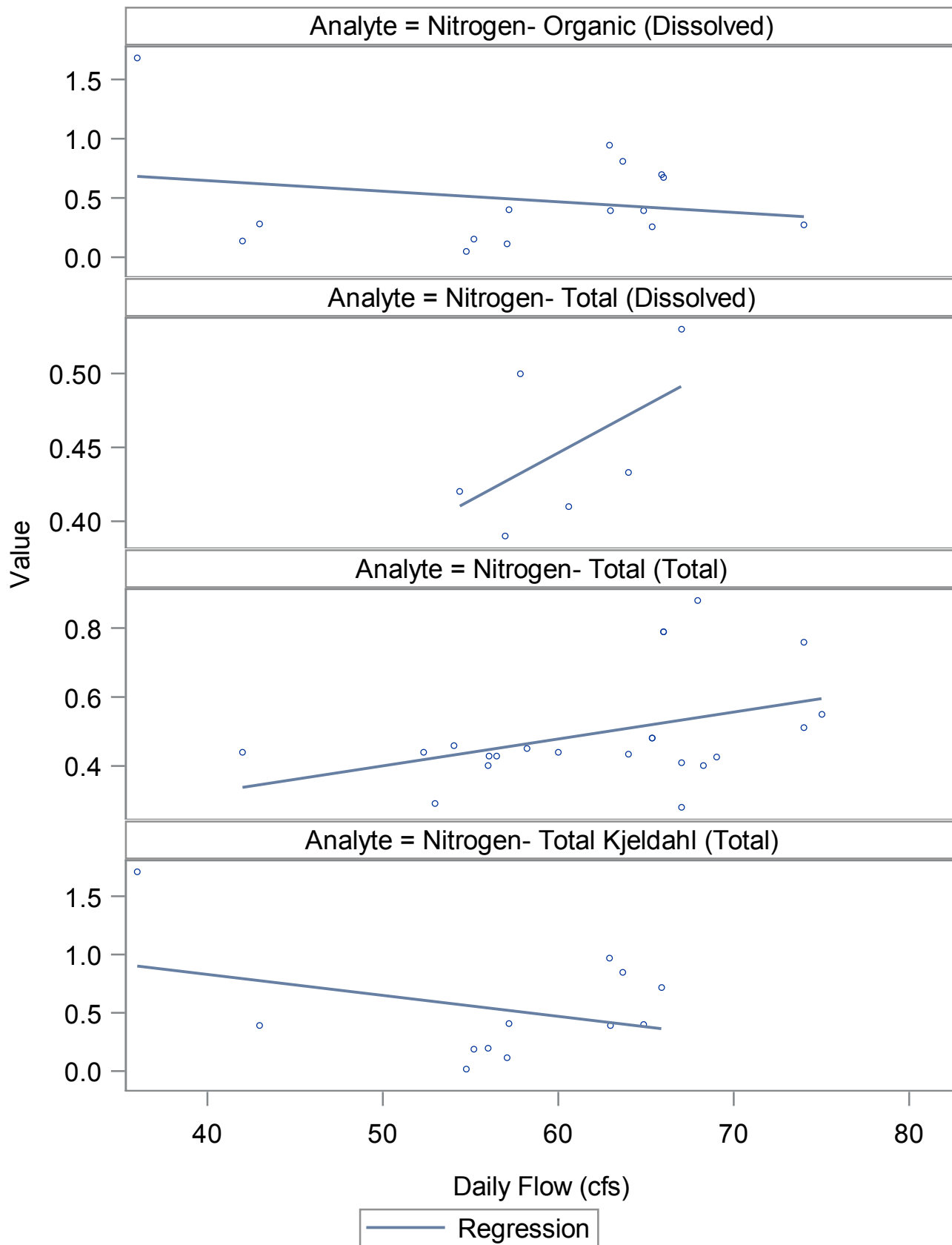
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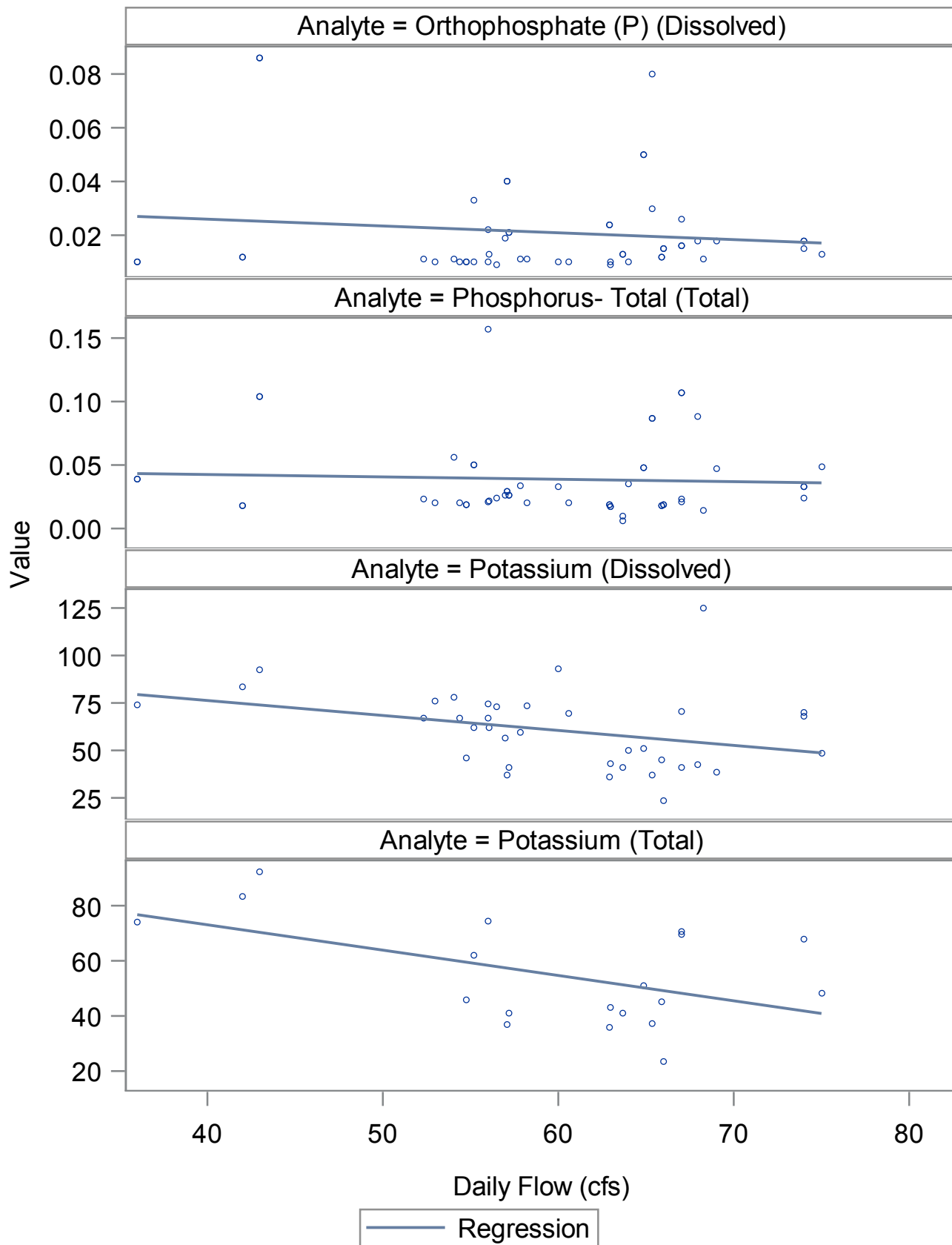
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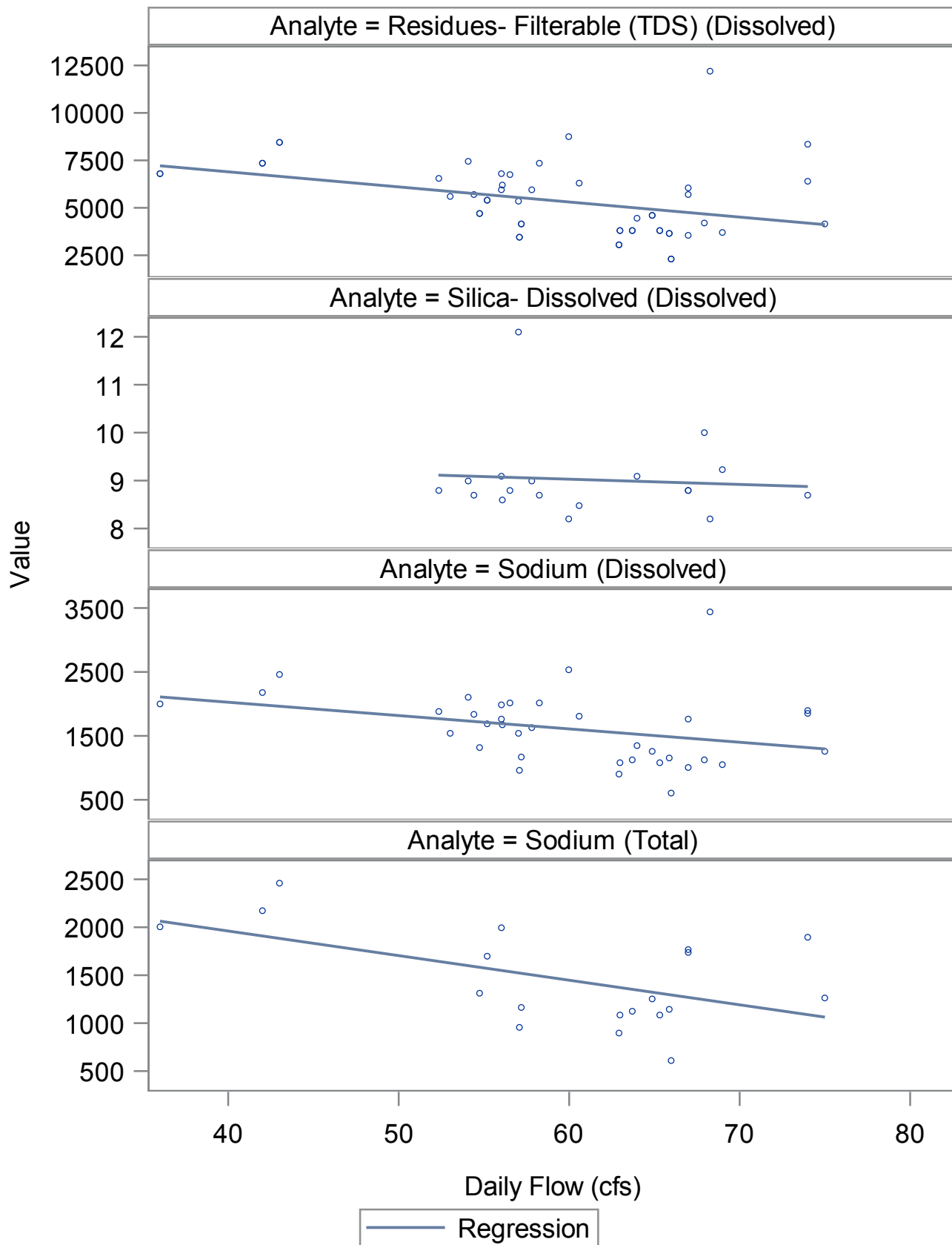
All Data Against Daily Flows

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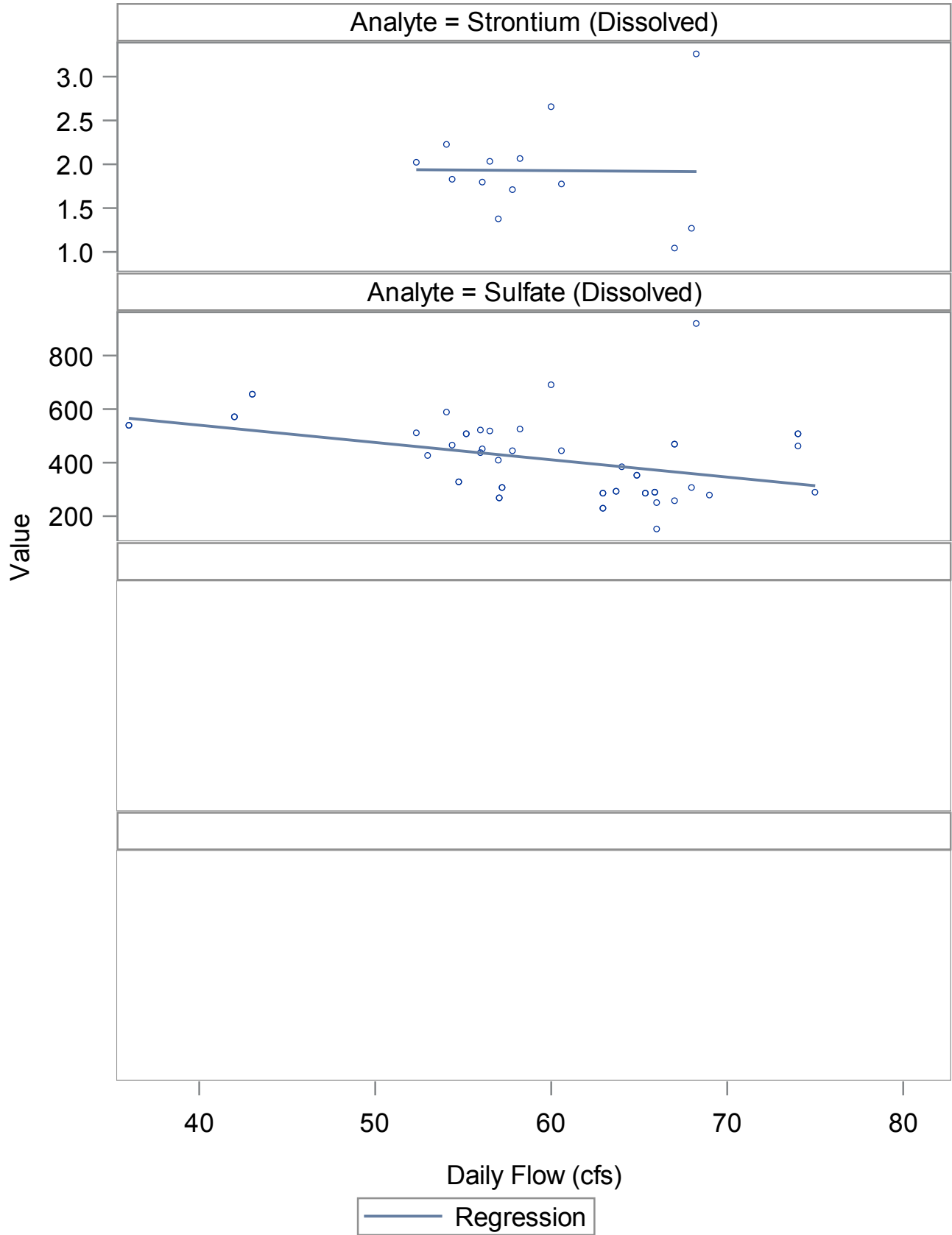
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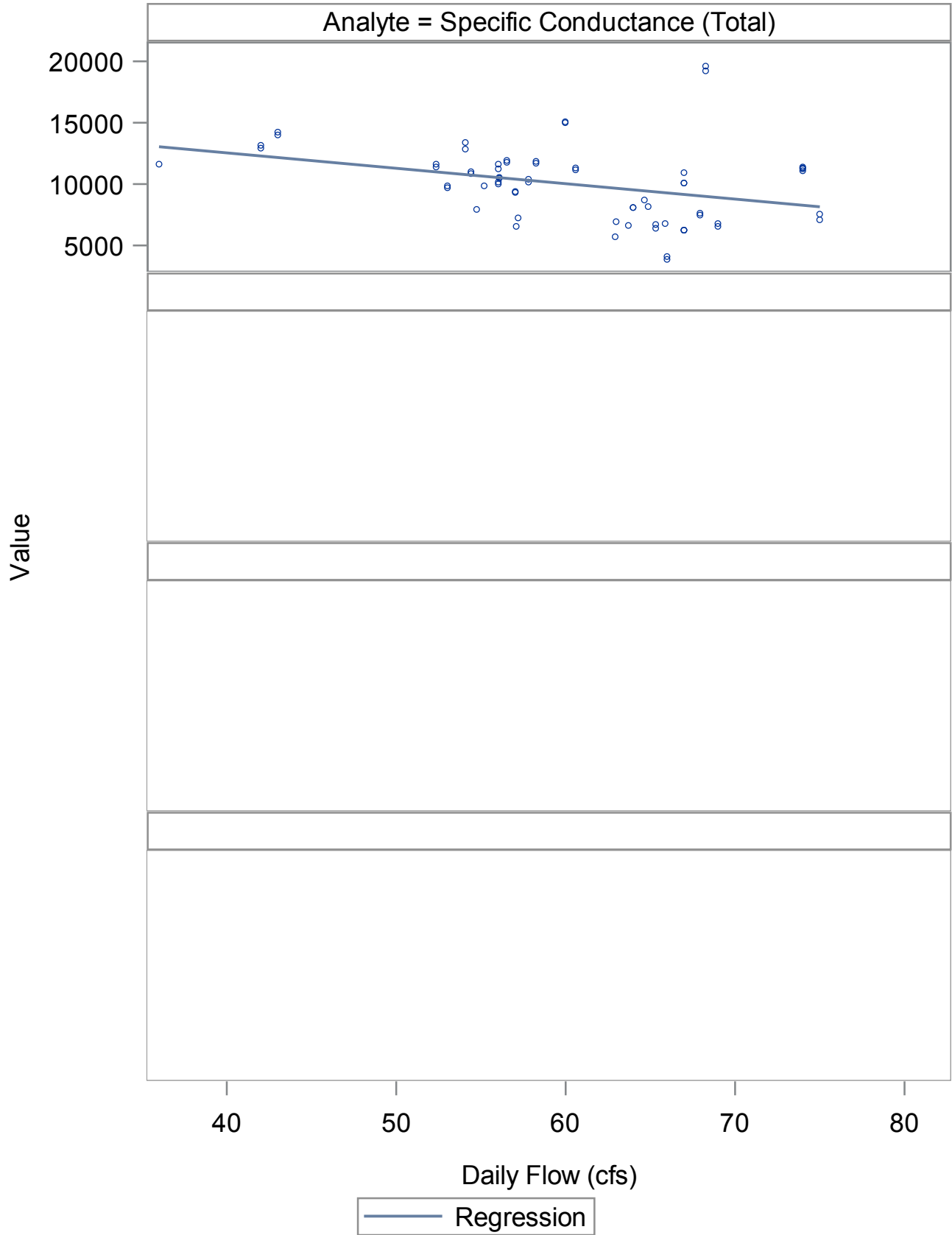
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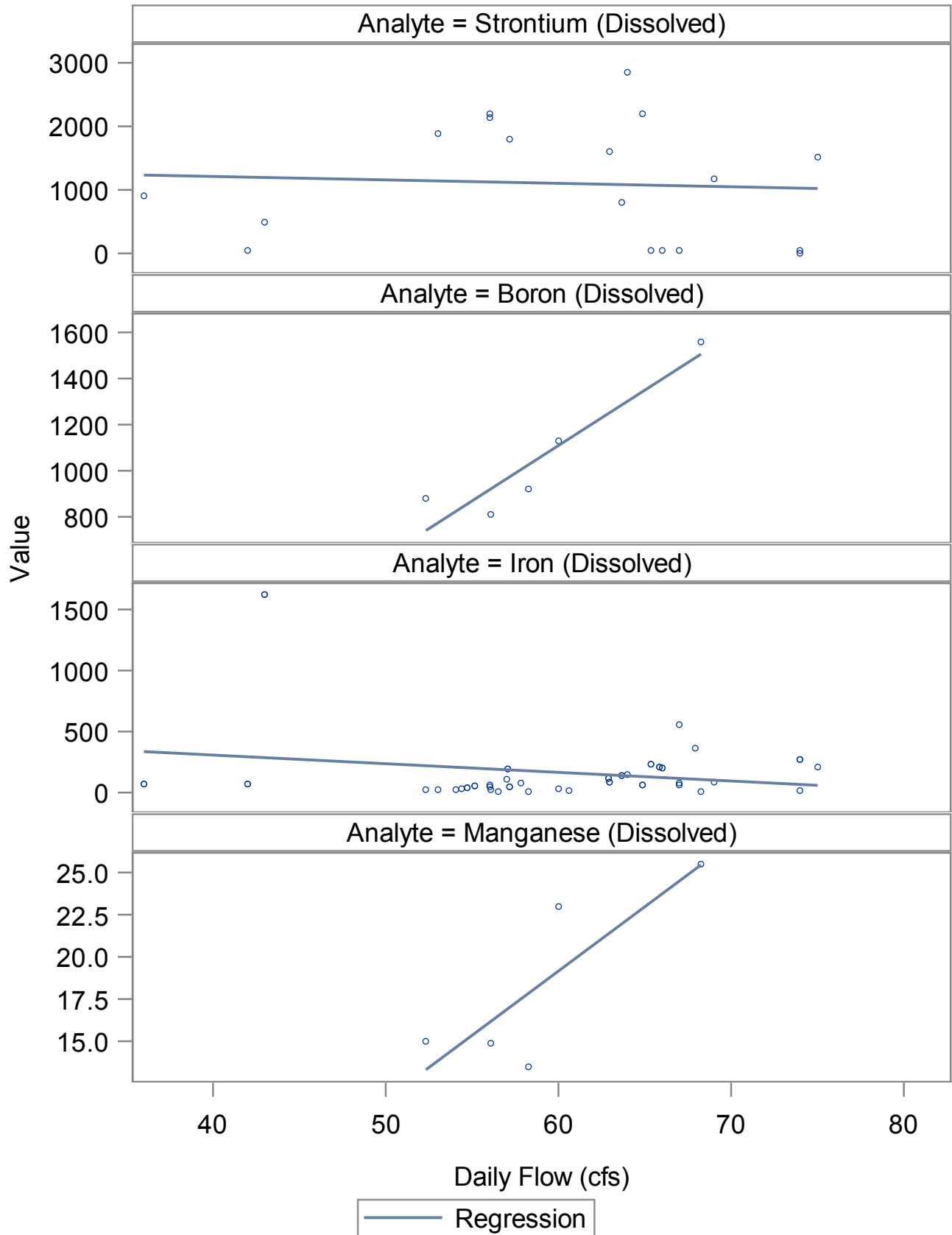
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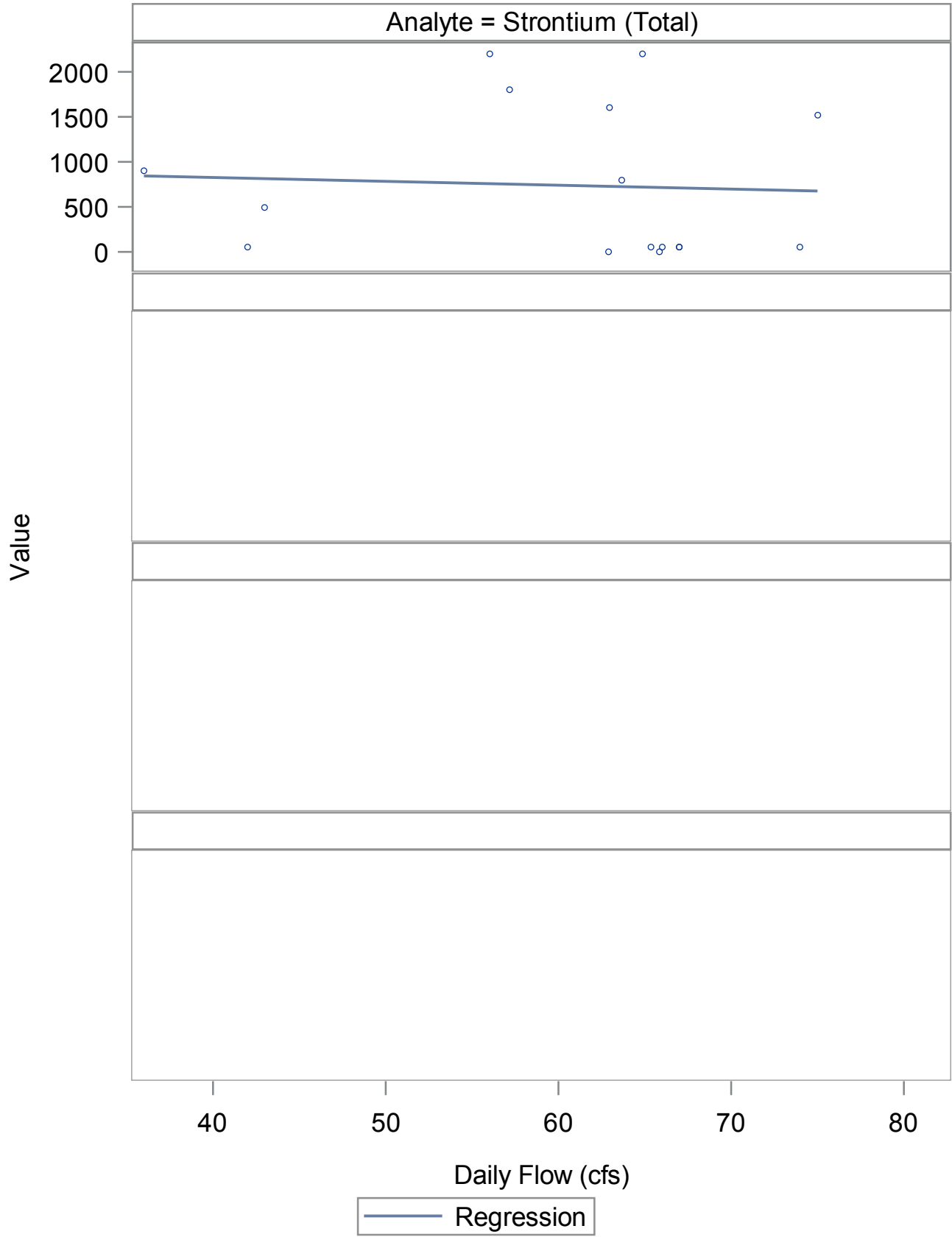
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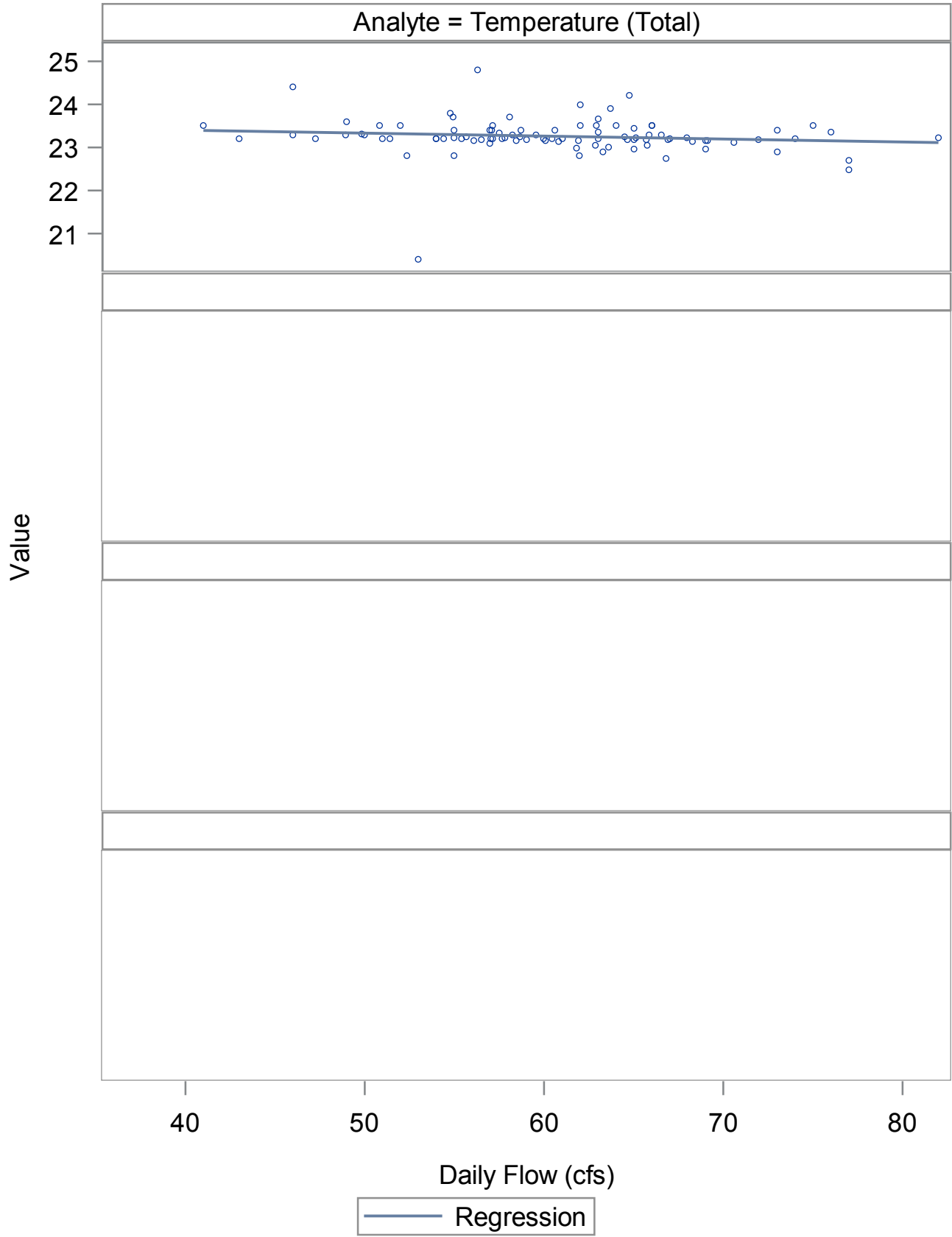
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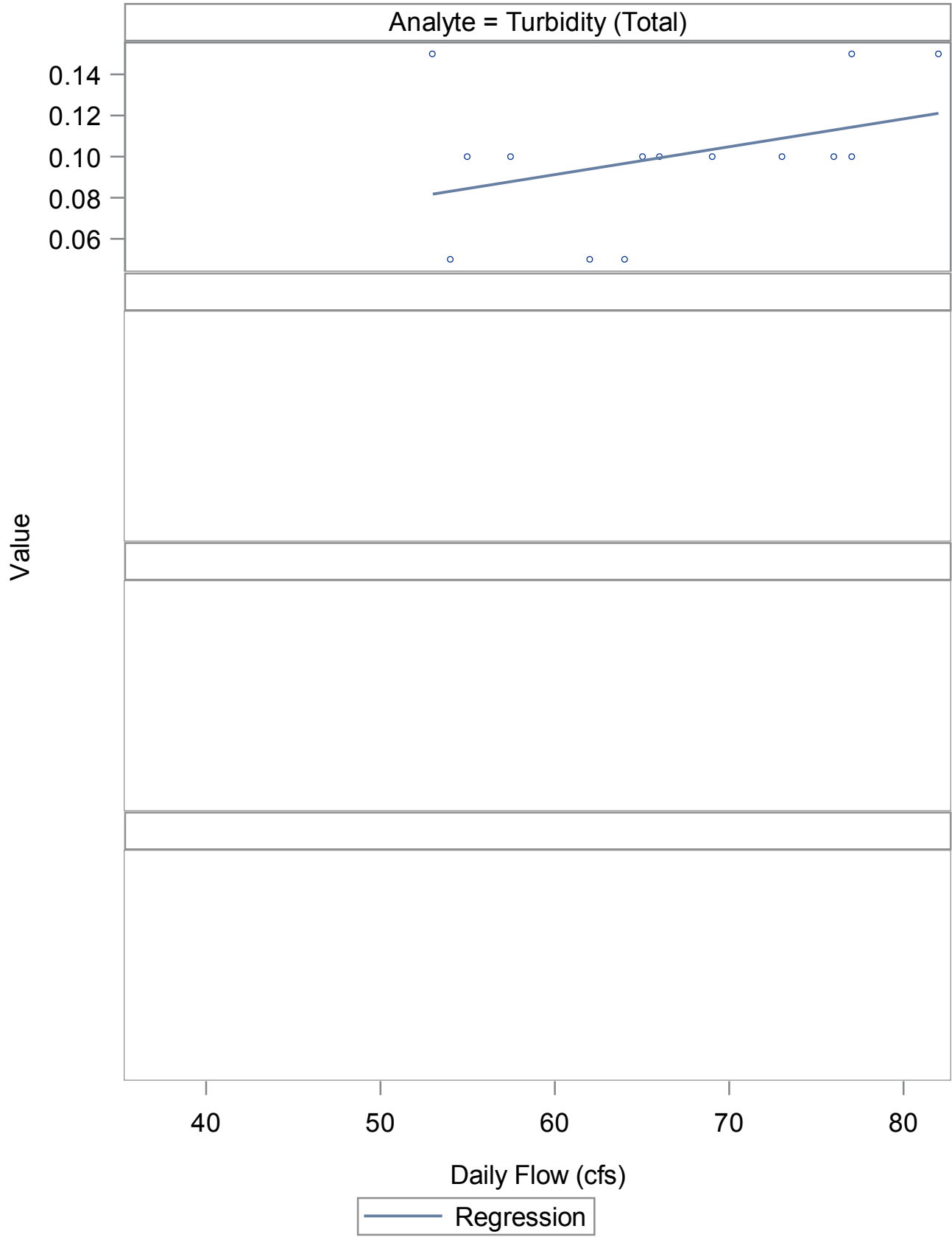
All Data Against Daily Flows

Source=P-889 Station=CHASSAHOWITZKA 1 SPRING Units=Deg. C



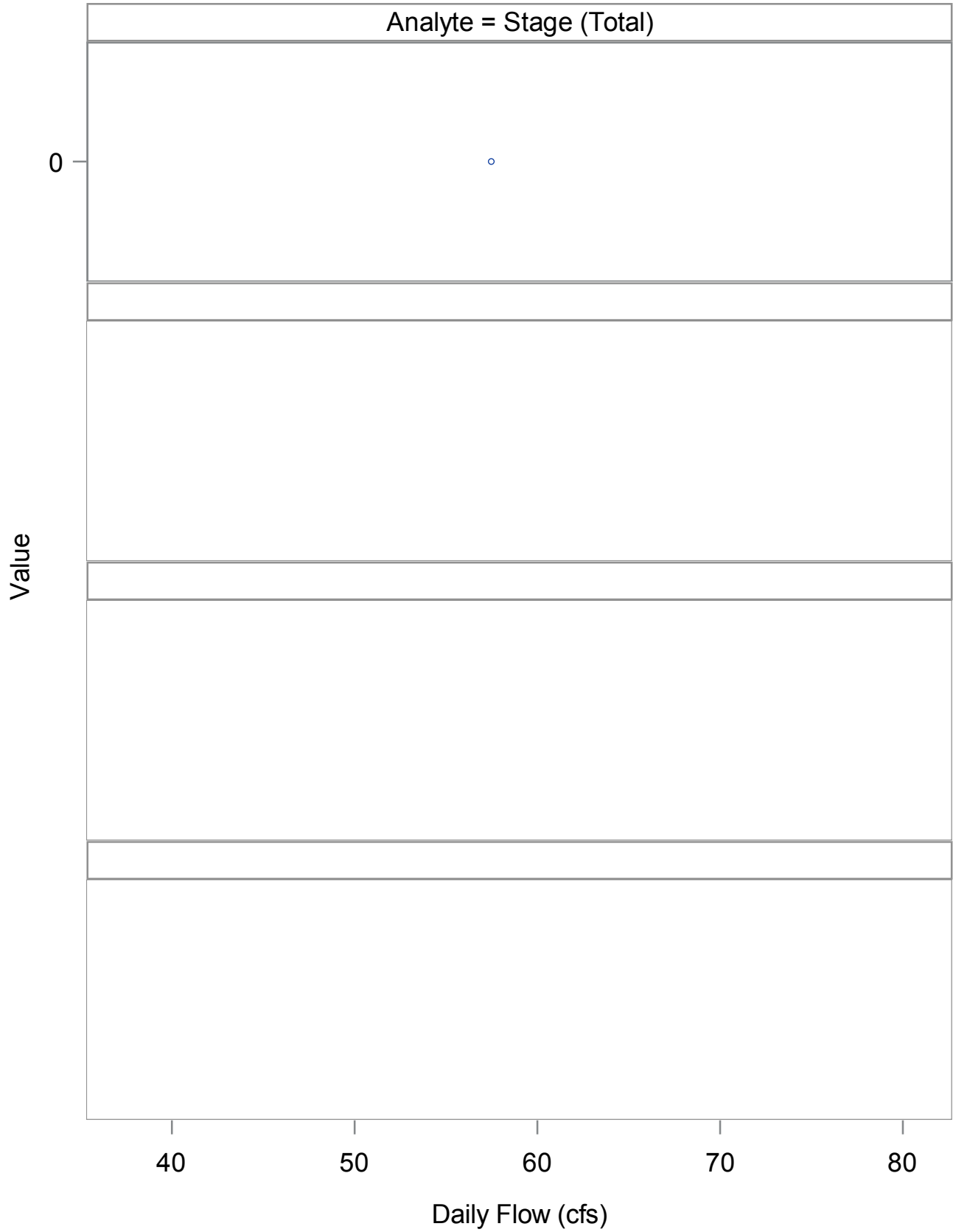
All Data Against Daily Flows

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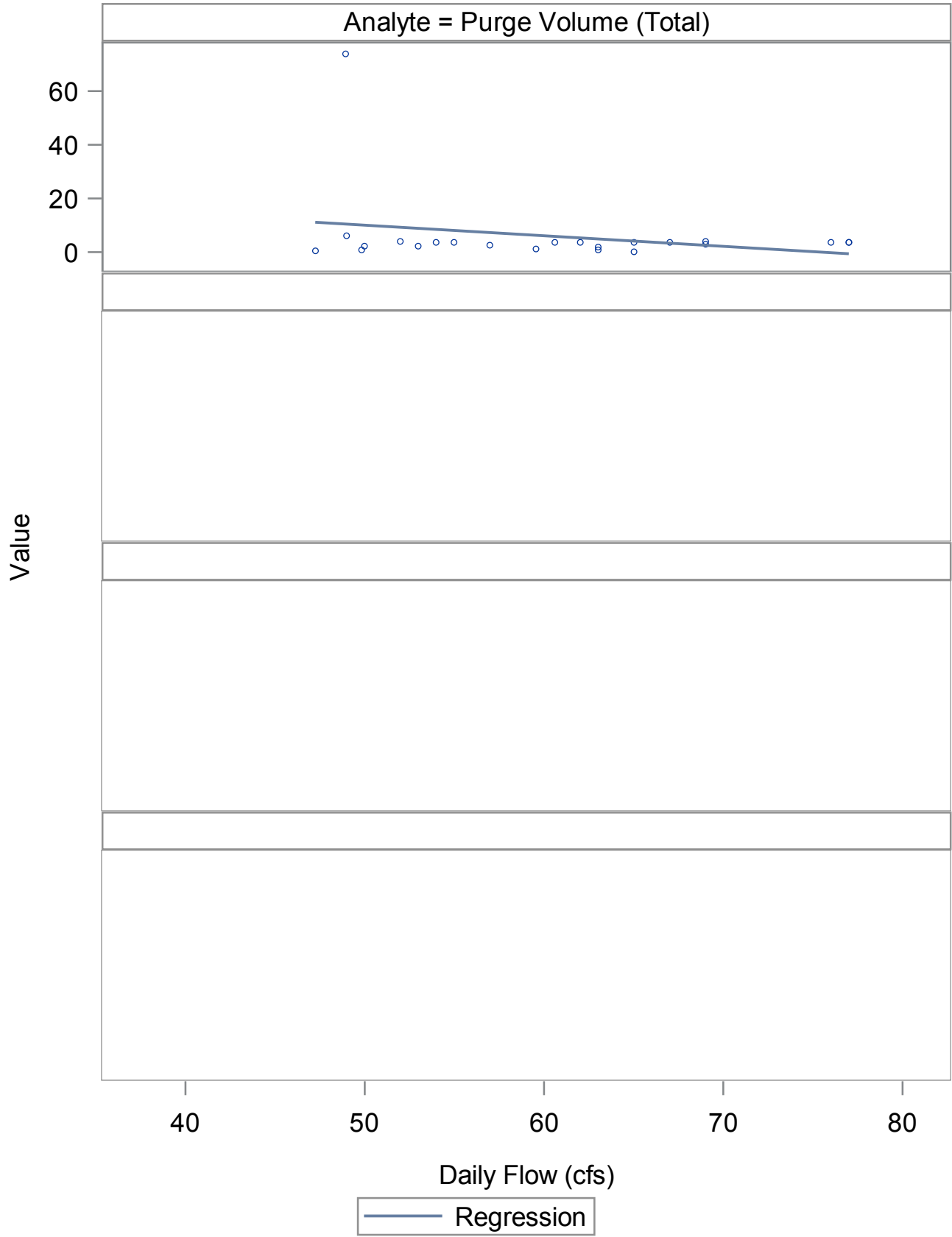
All Data Against Daily Flows

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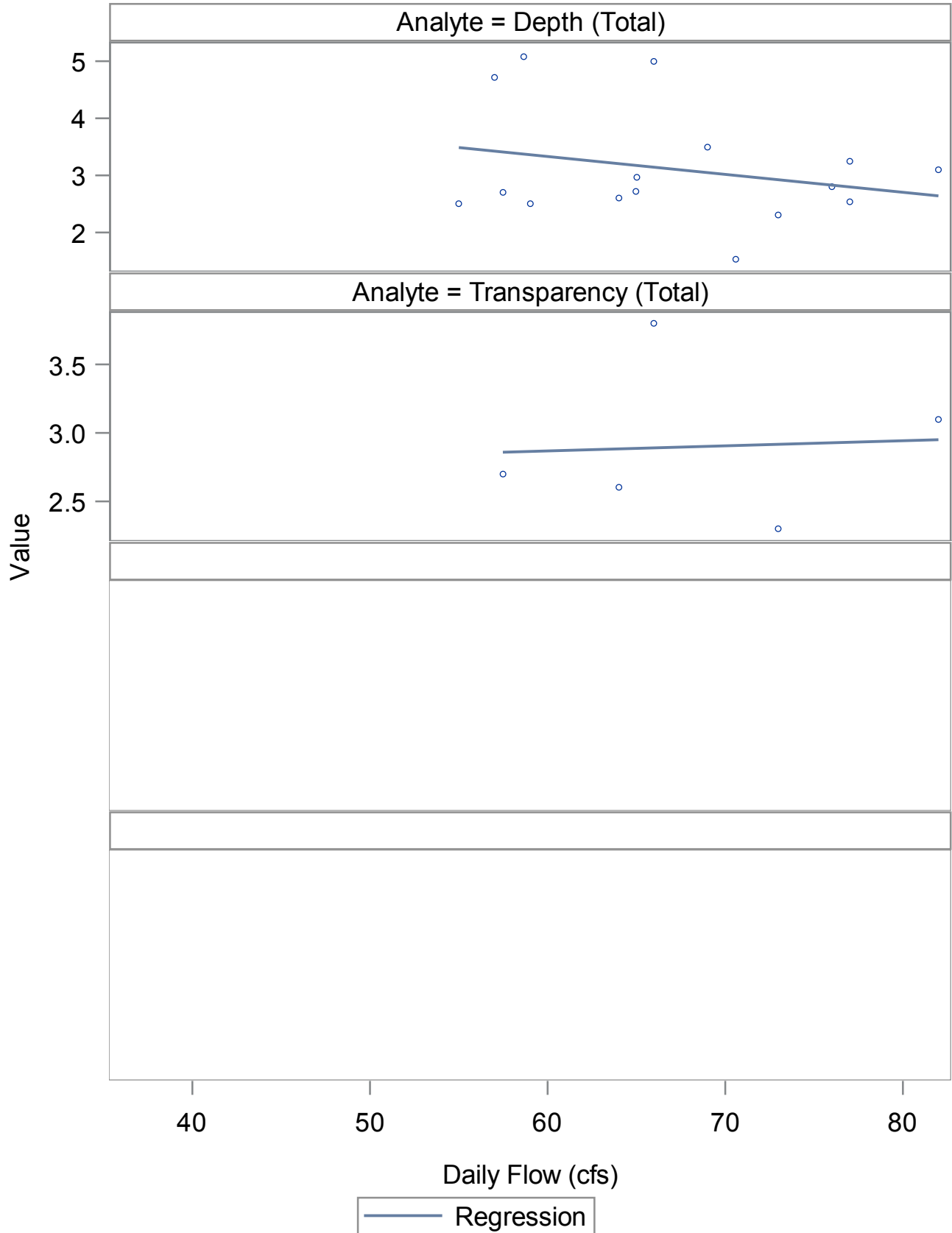
All Data Against Daily Flows

Source=P-889 Station=CHASSAHOWITZKA 1 SPRING Units=Gallons



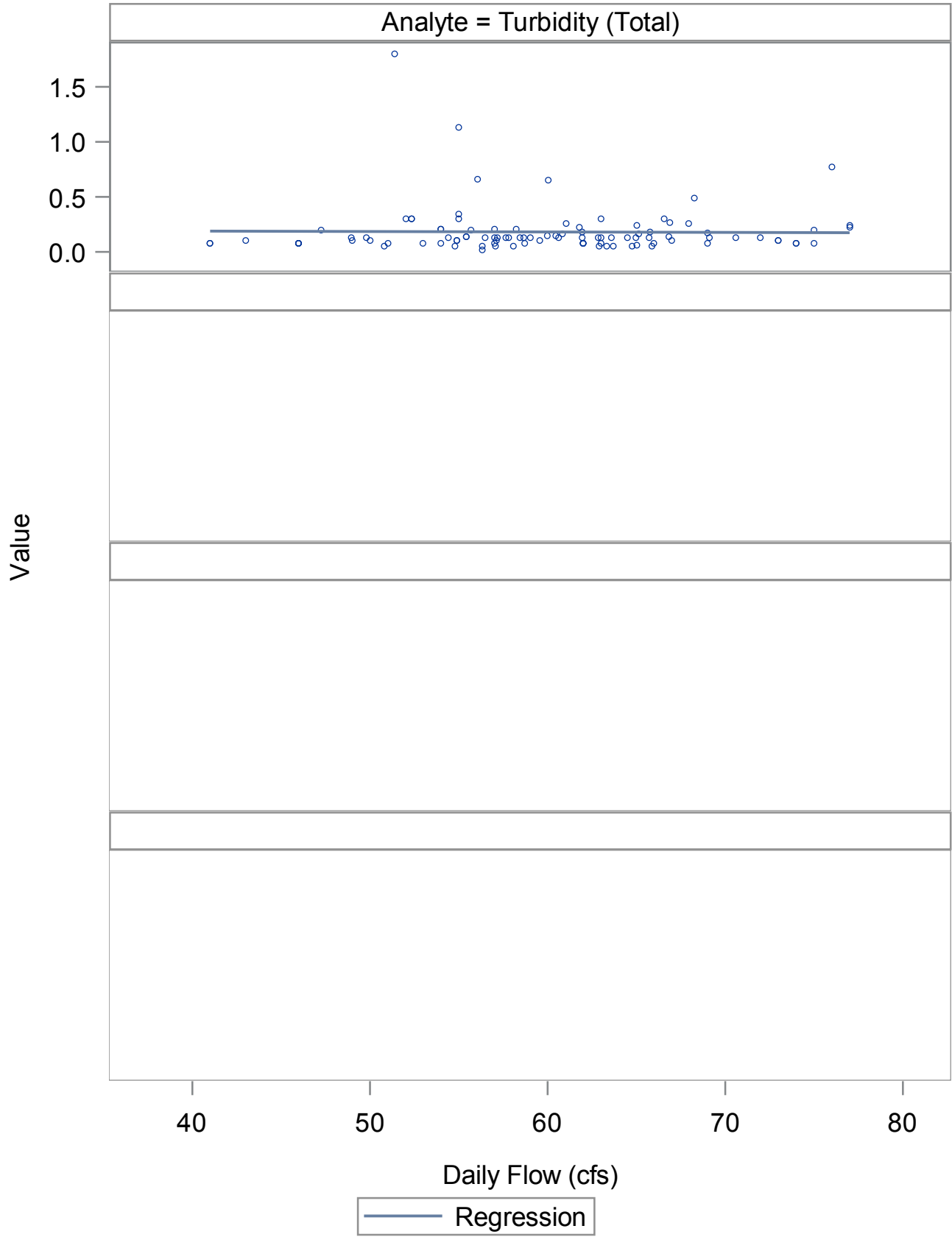
All Data Against Daily Flows

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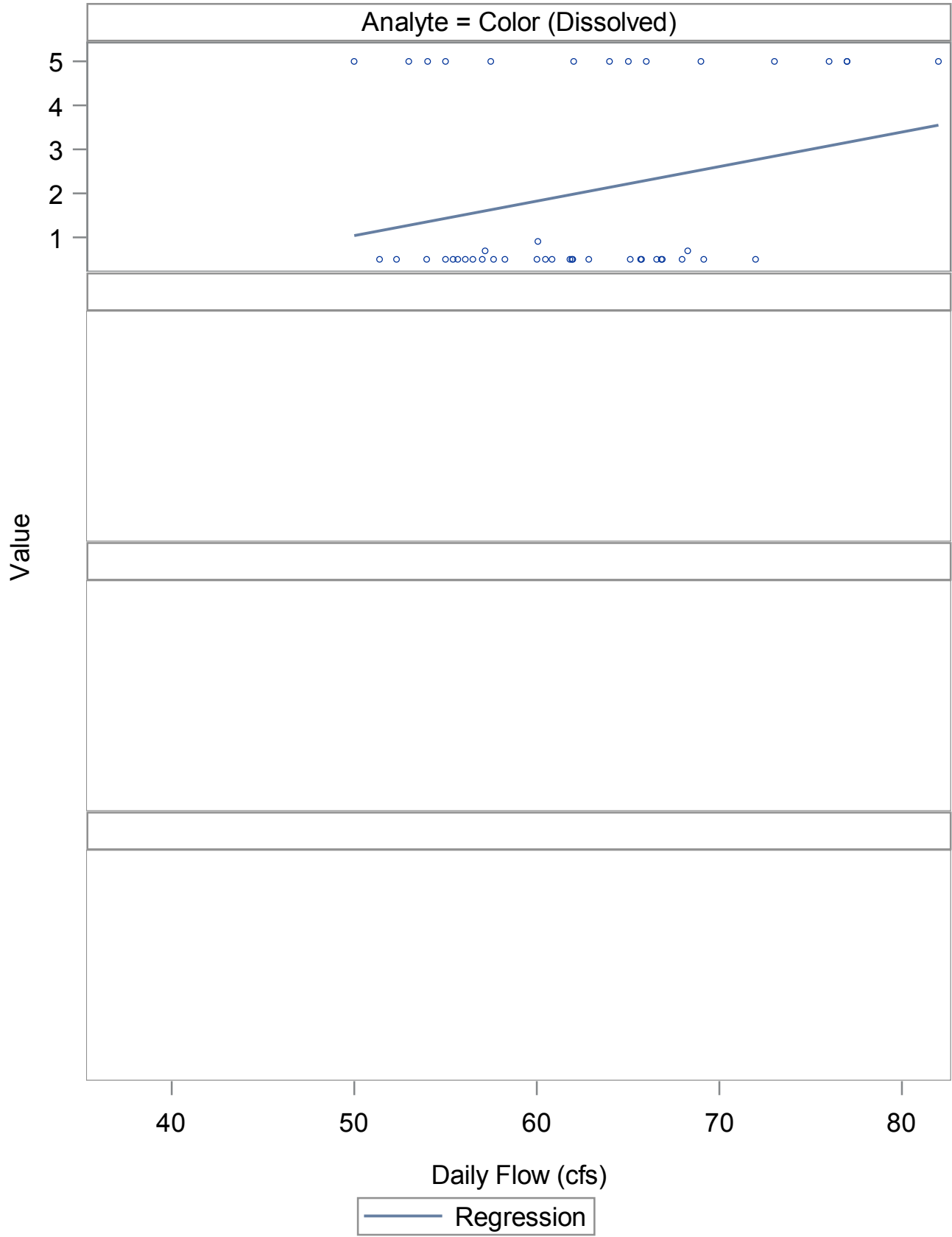
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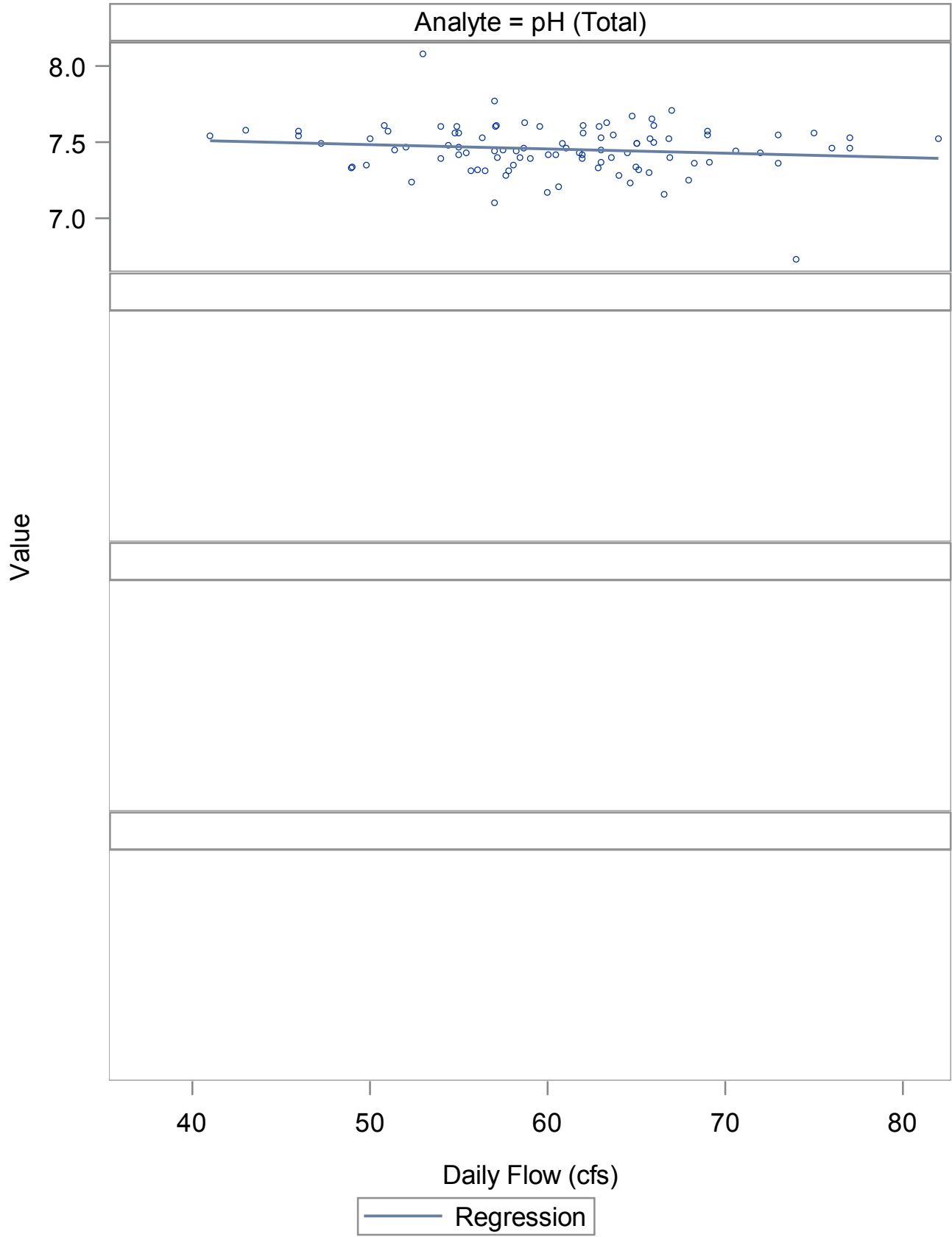
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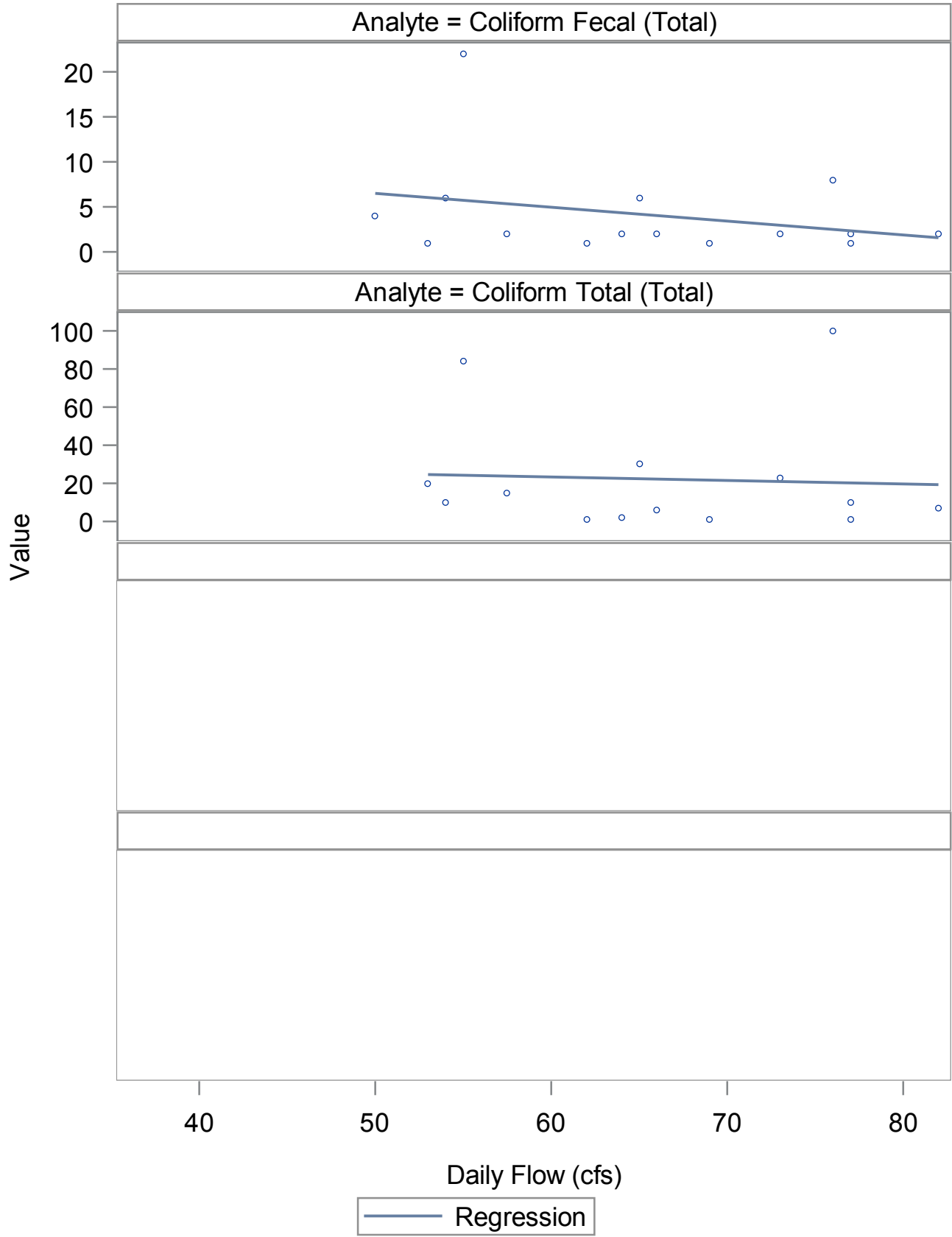
All Data Against Daily Flows

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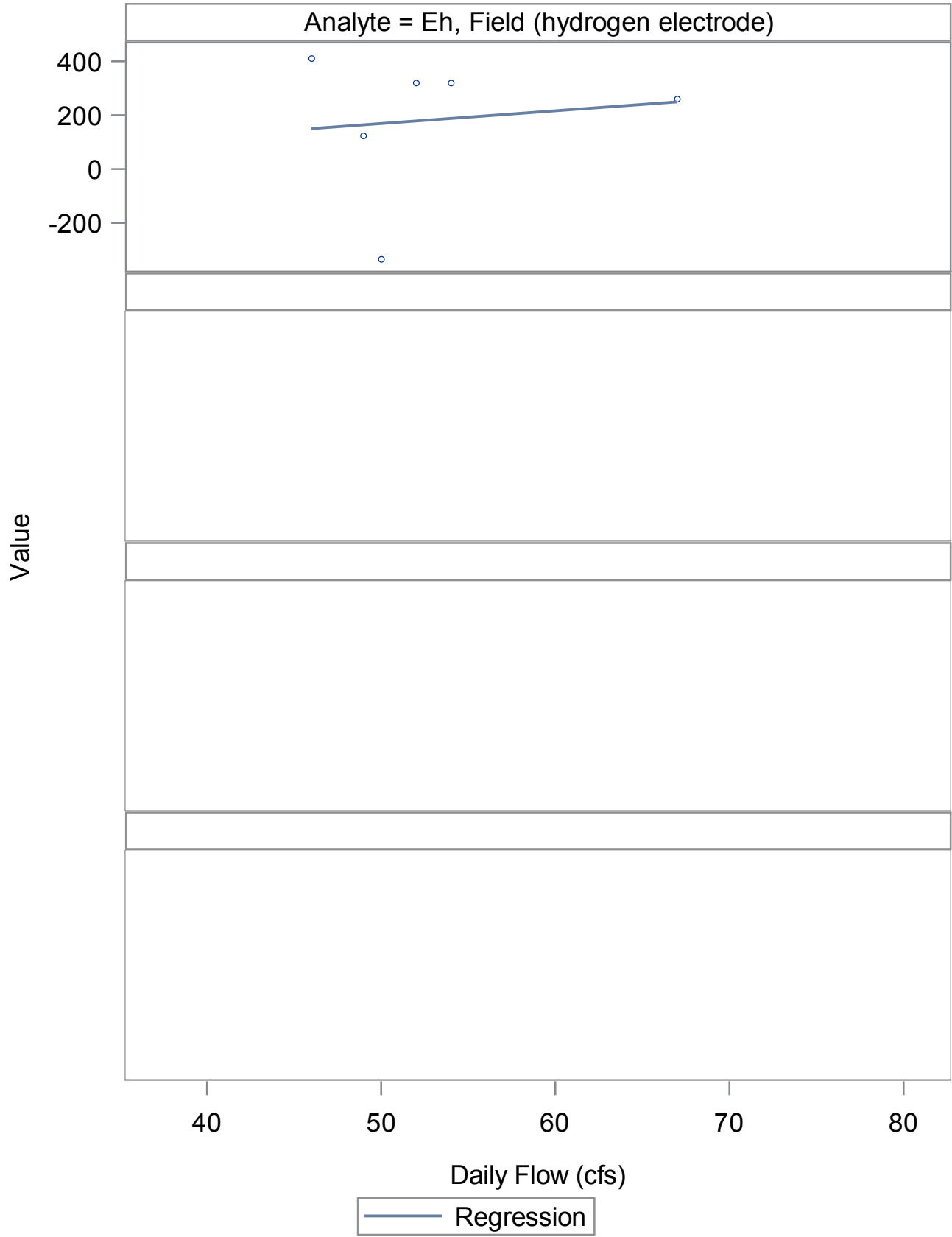
All Data Against Daily Flows

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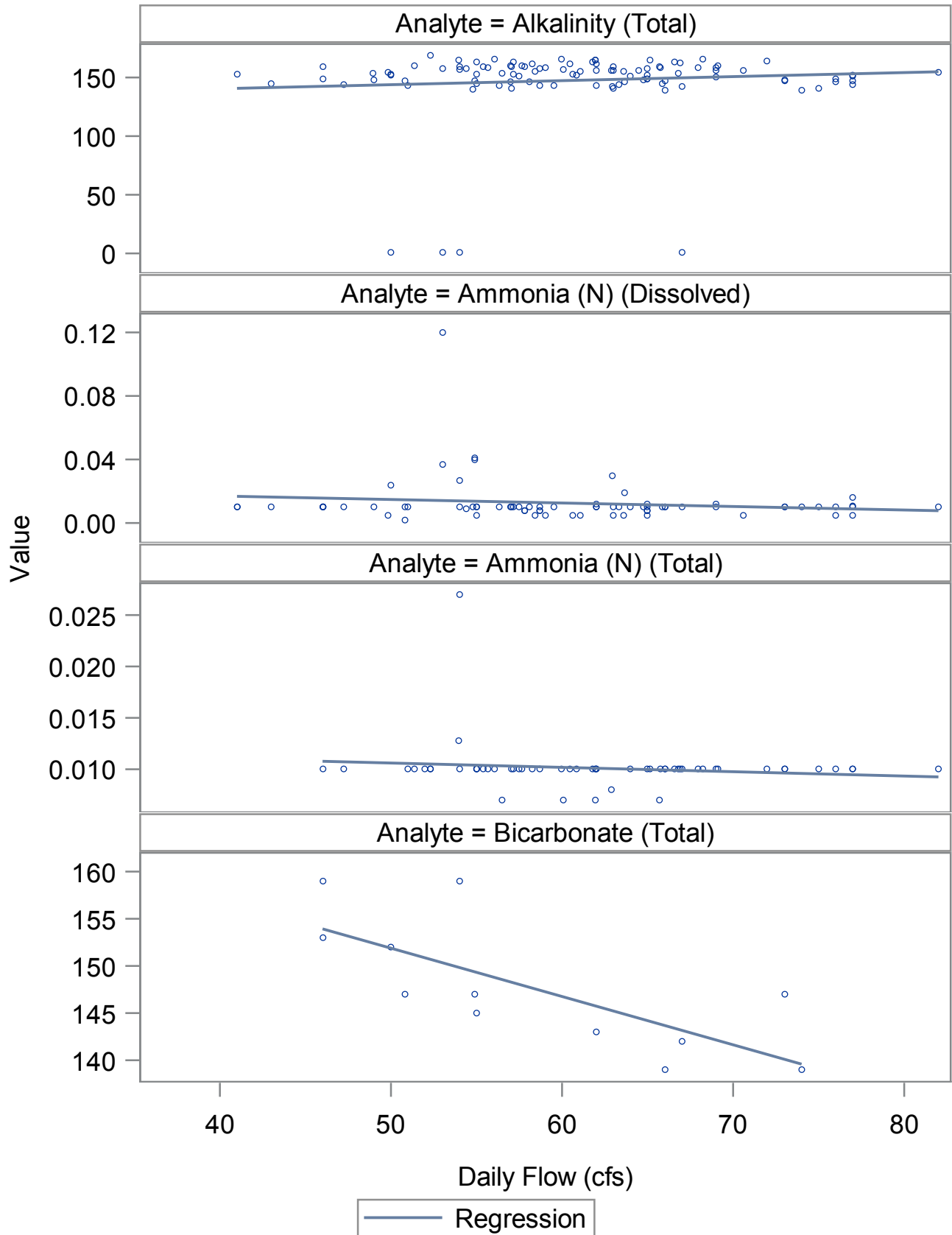
All Data Against Daily Flows

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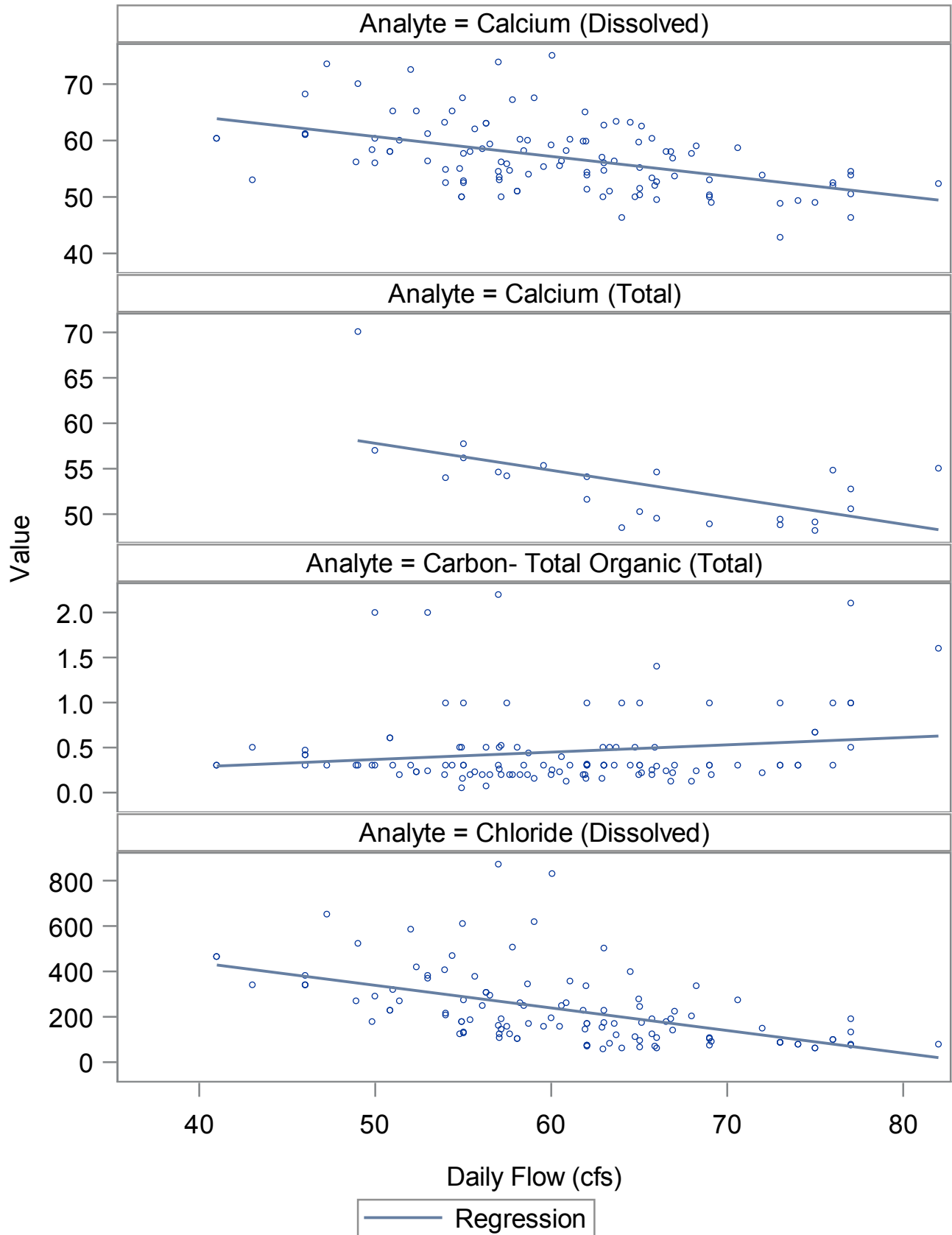
All Data Against Daily Flows

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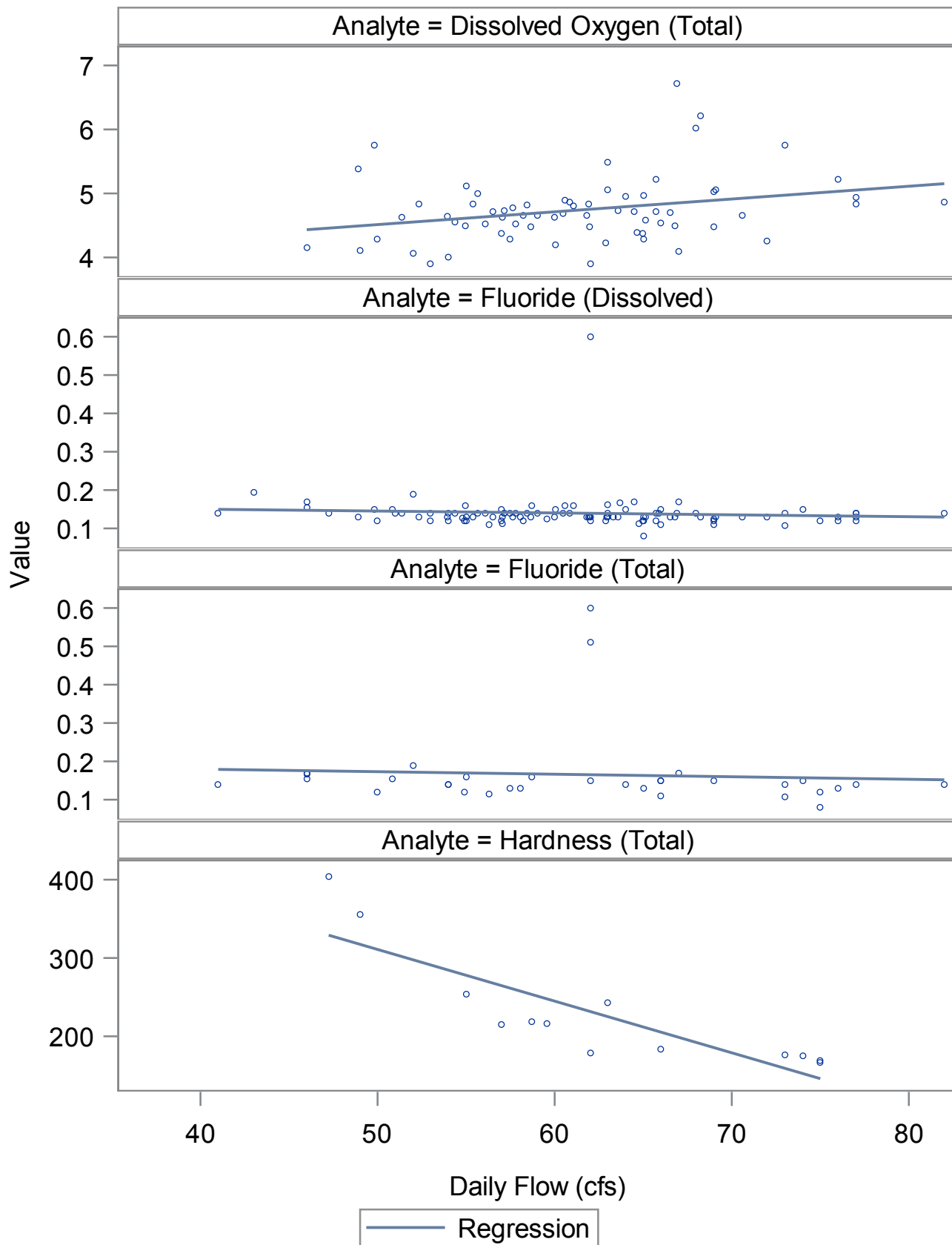
All Data Against Daily Flows

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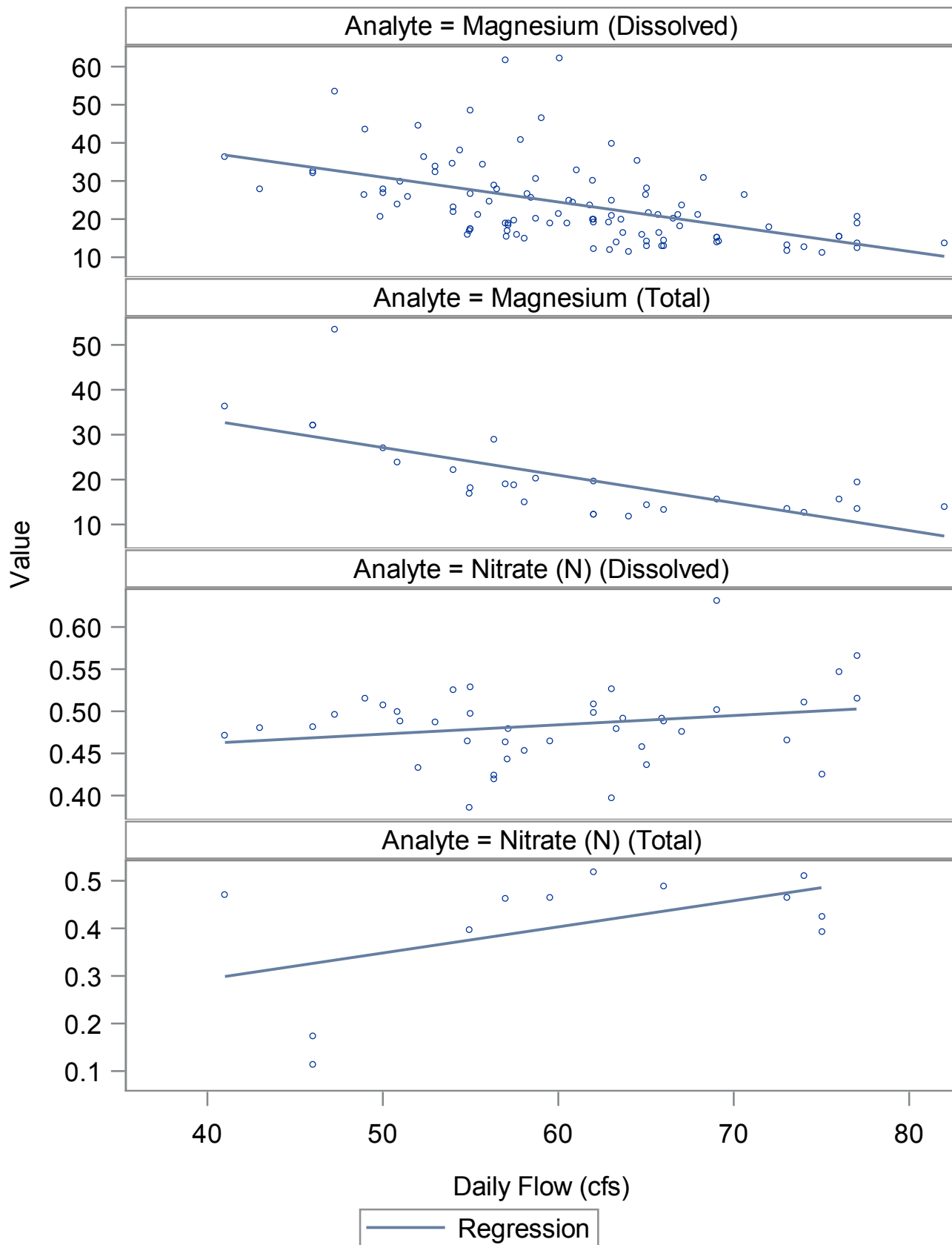
All Data Against Daily Flows

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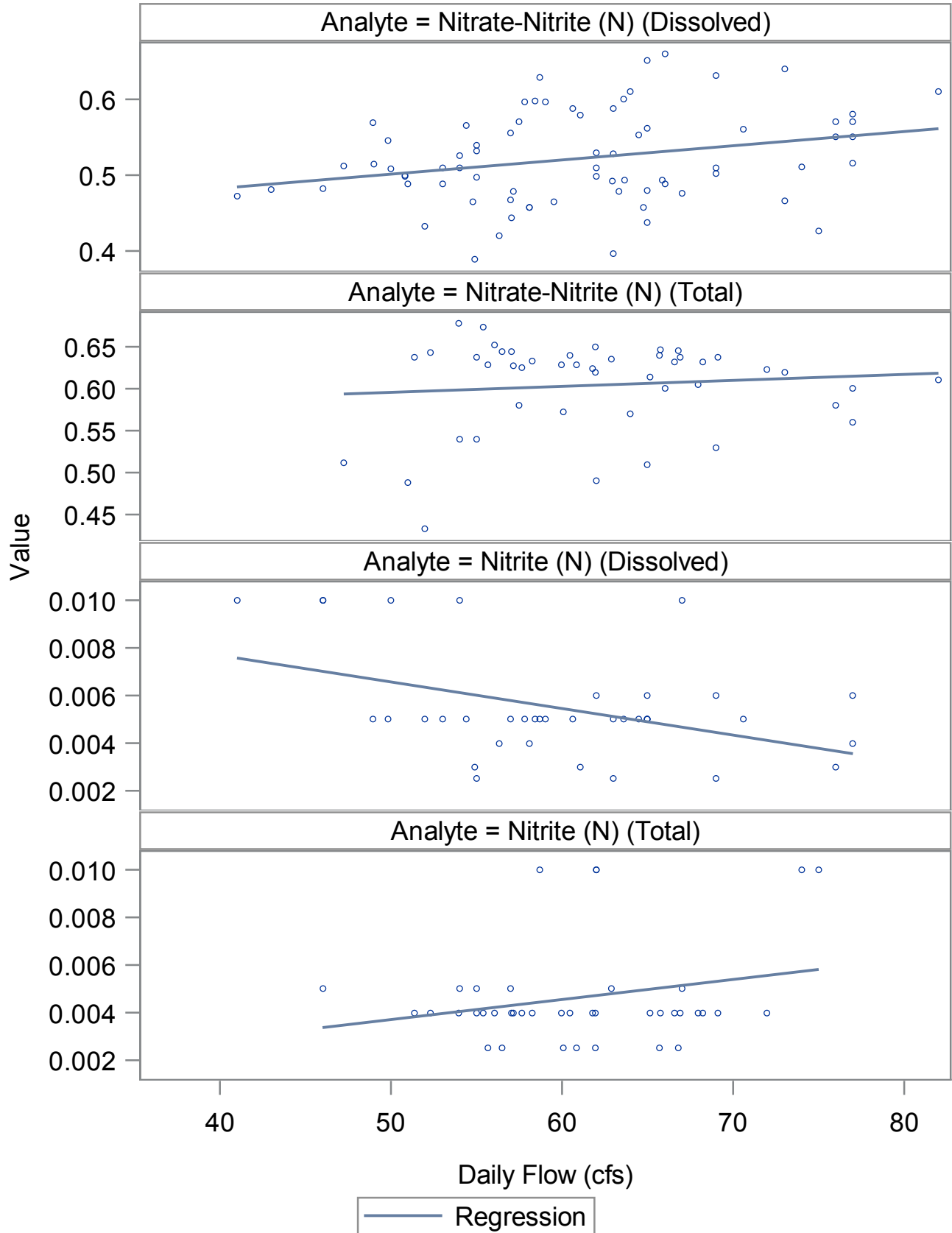
All Data Against Daily Flows

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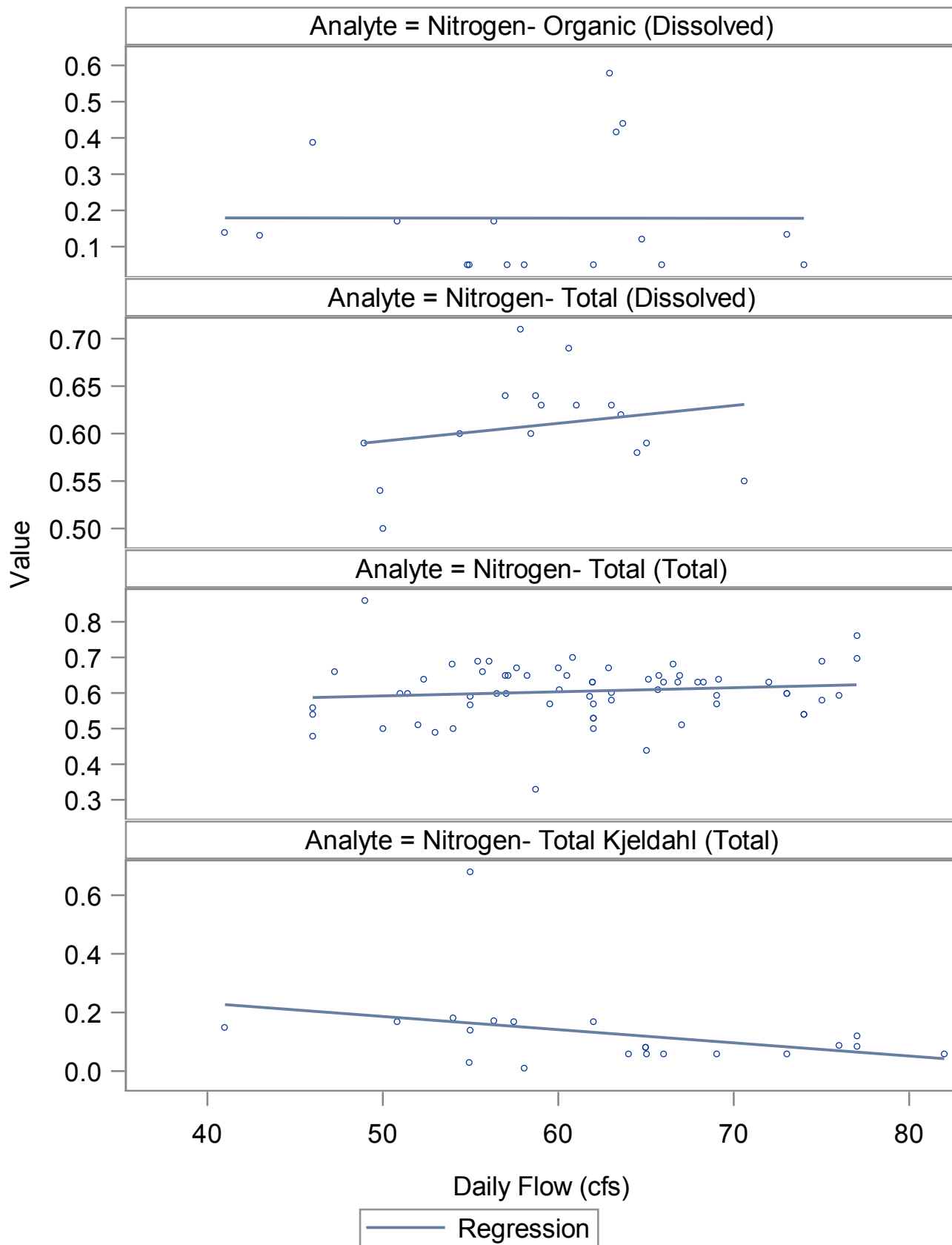
All Data Against Daily Flows

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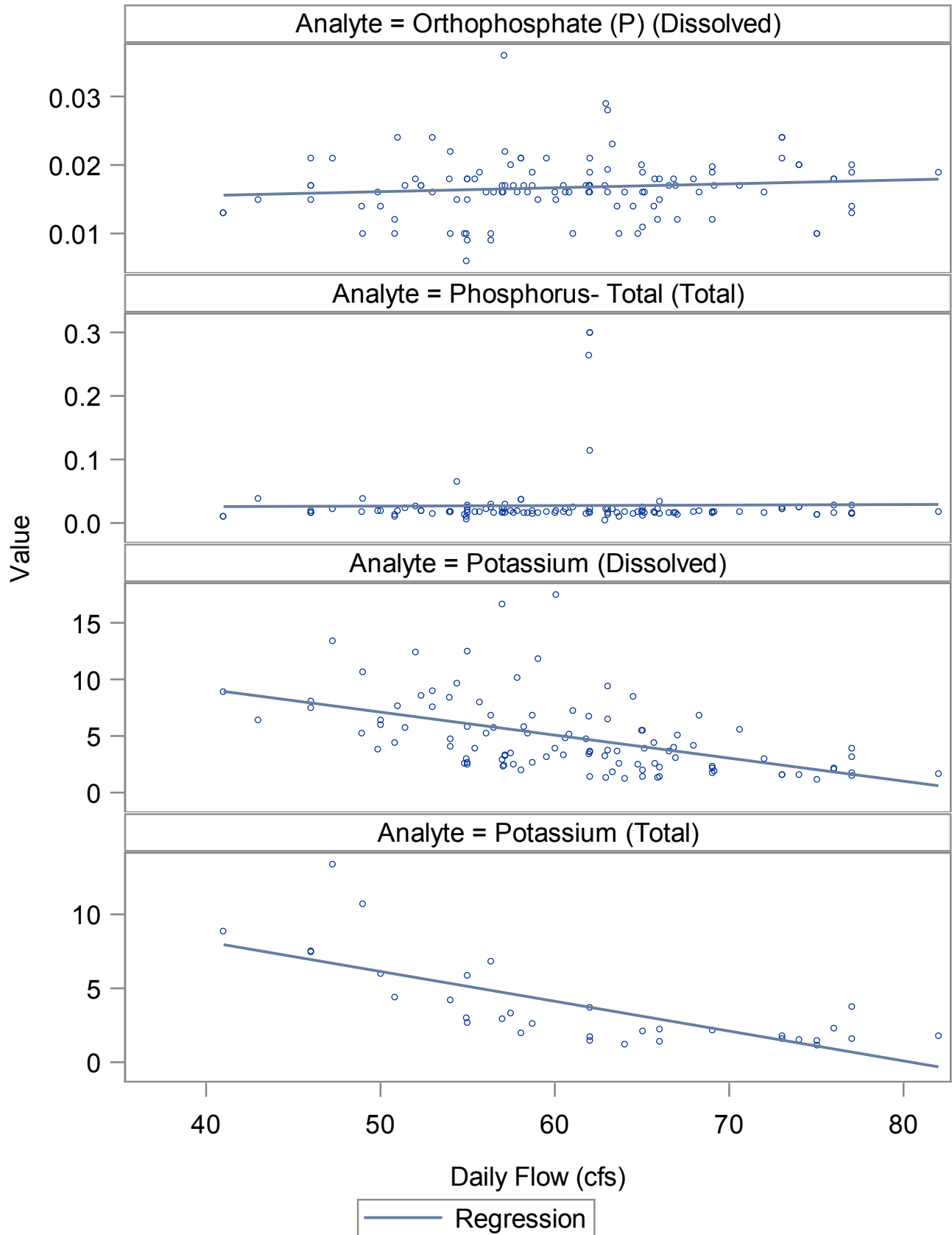
All Data Against Daily Flows

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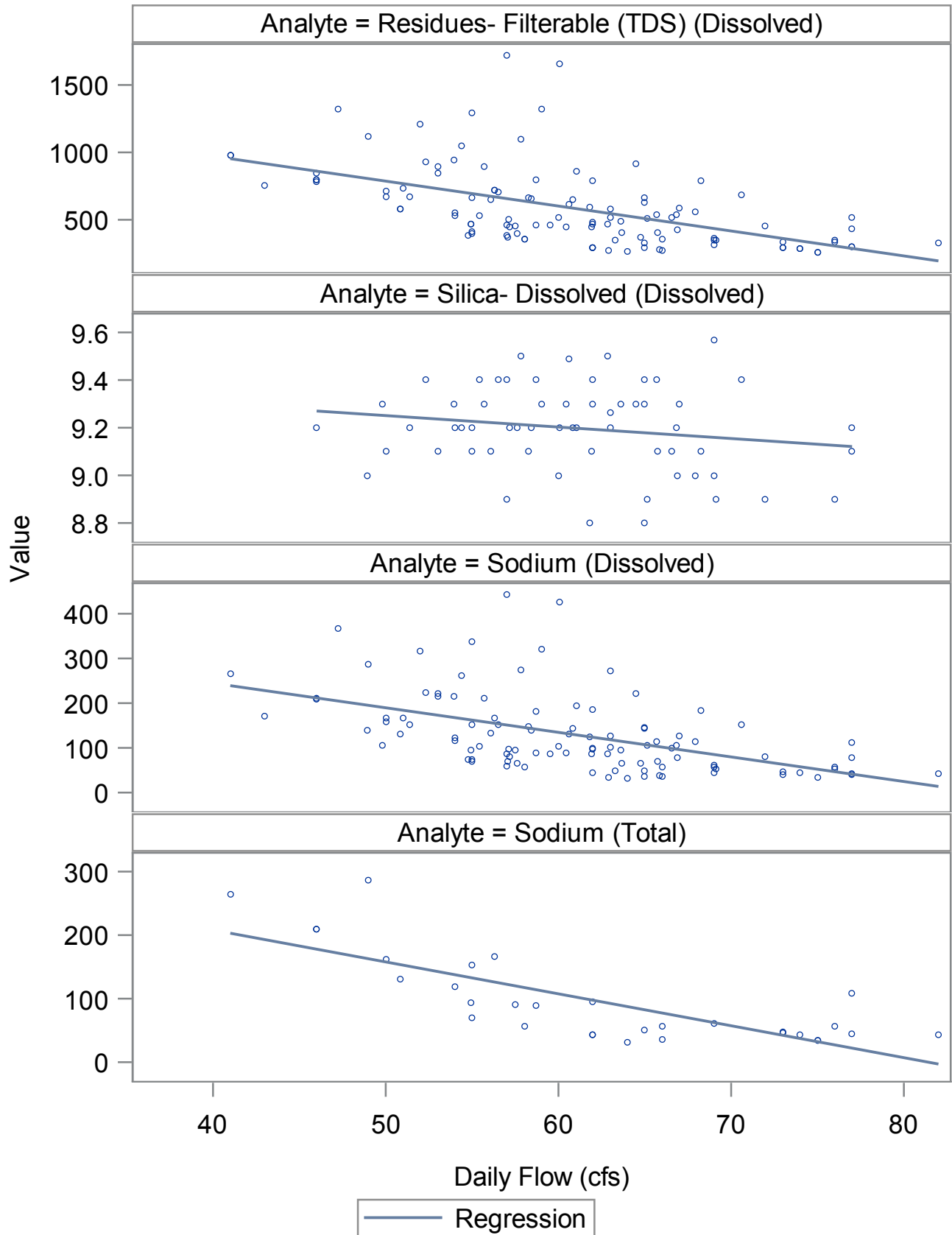
All Data Against Daily Flows

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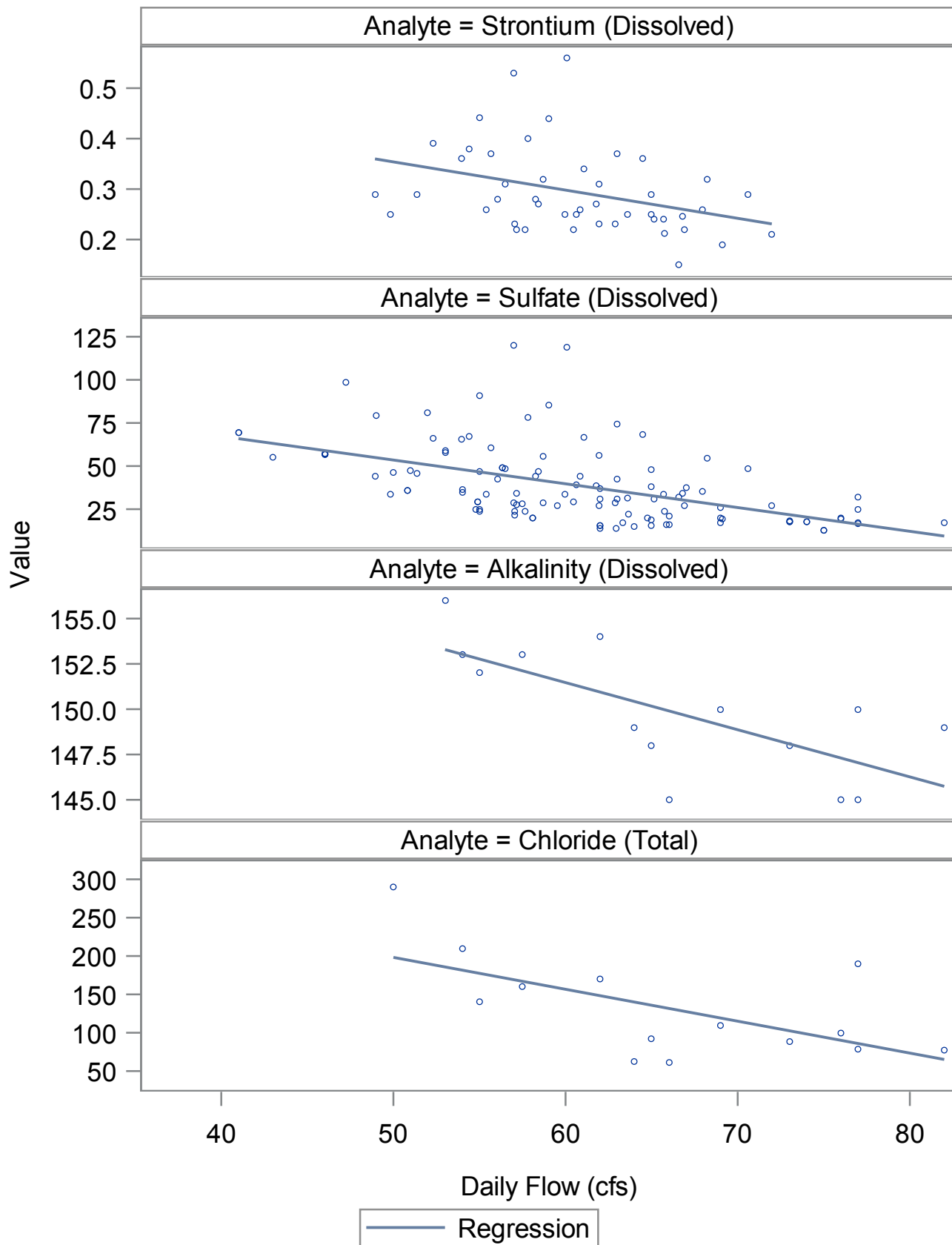
All Data Against Daily Flows

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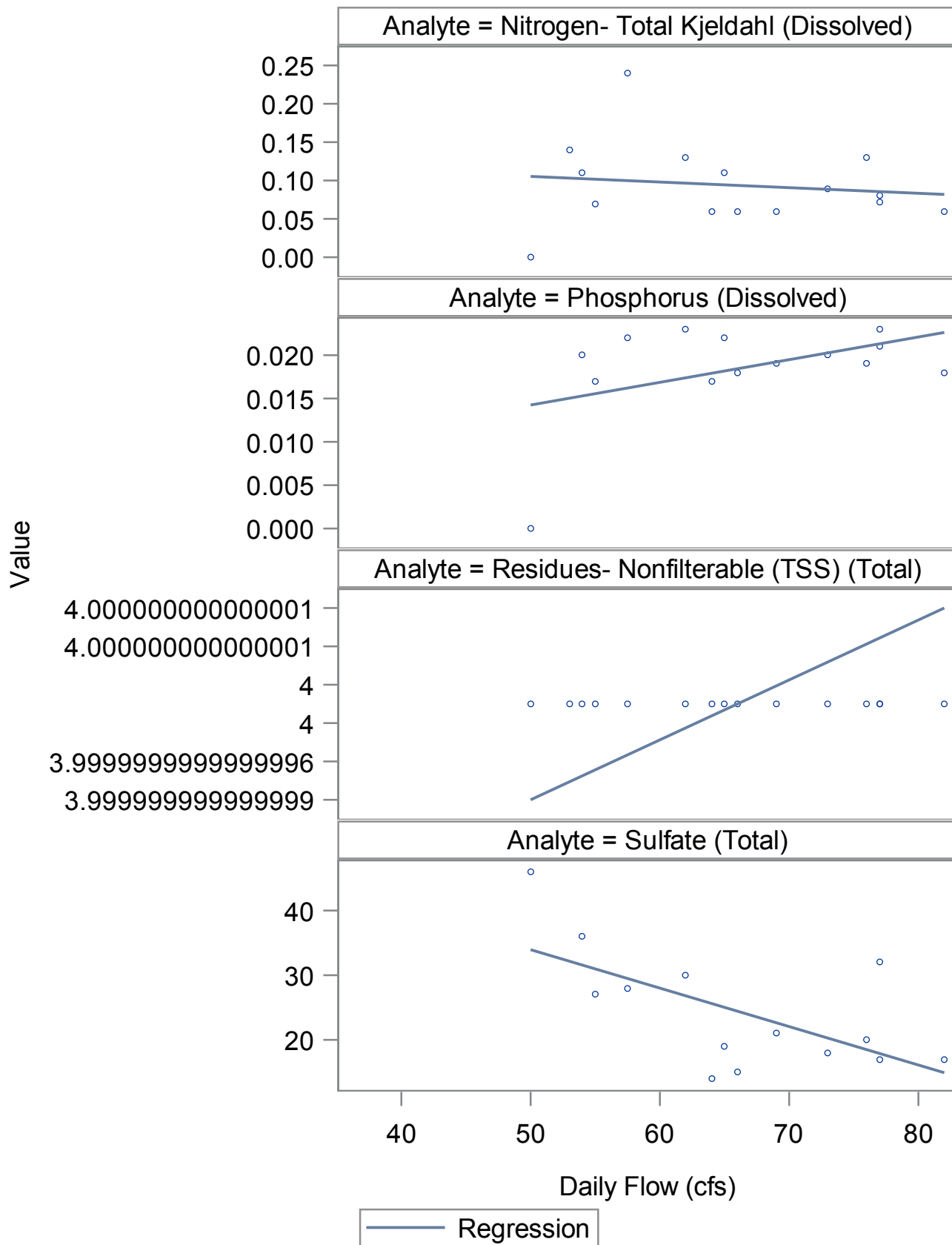
All Data Against Daily Flows

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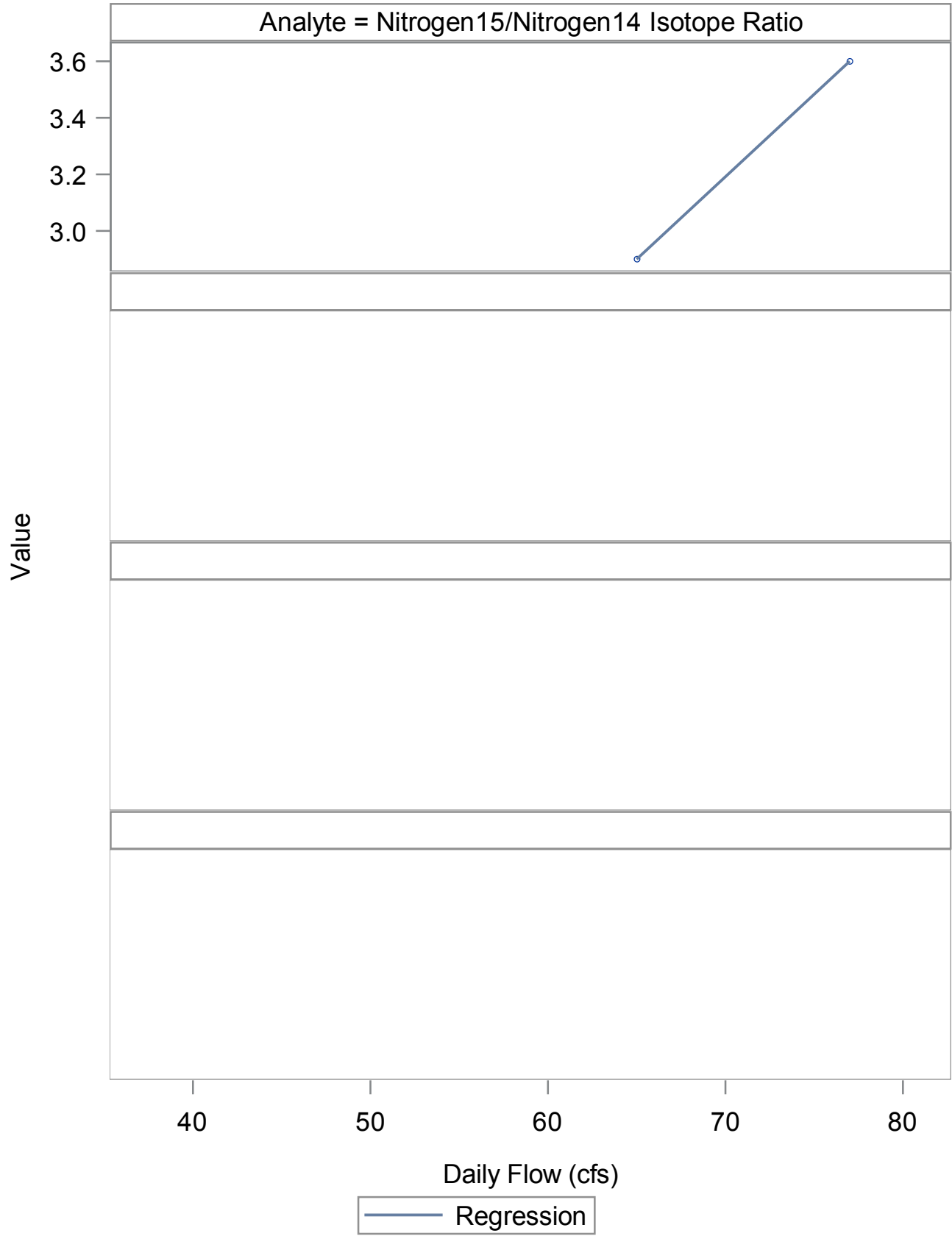
All Data Against Daily Flows

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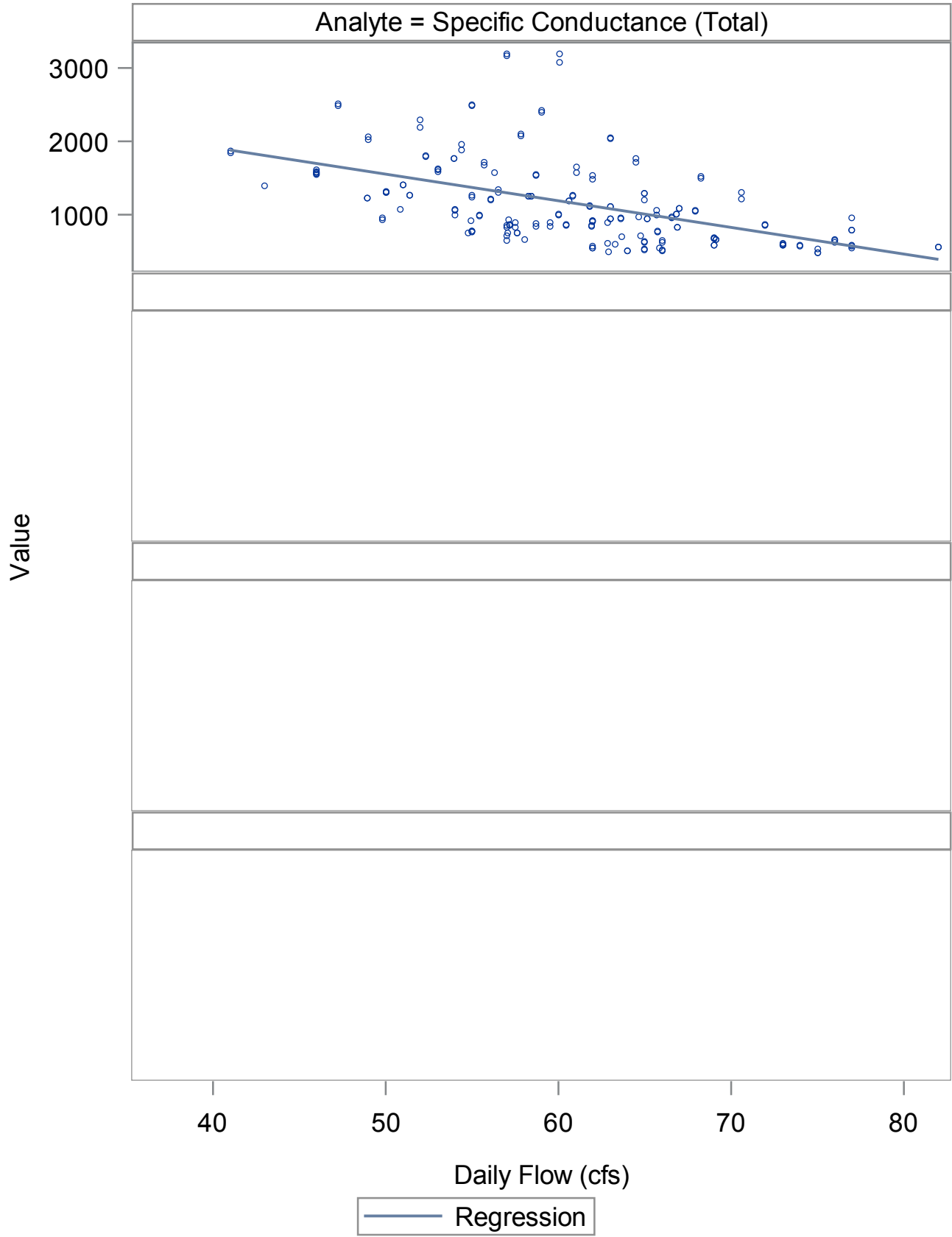
All Data Against Daily Flows

Source=P-889 Station=CHASSAHOWITZKA 1 SPRING Units=per mil



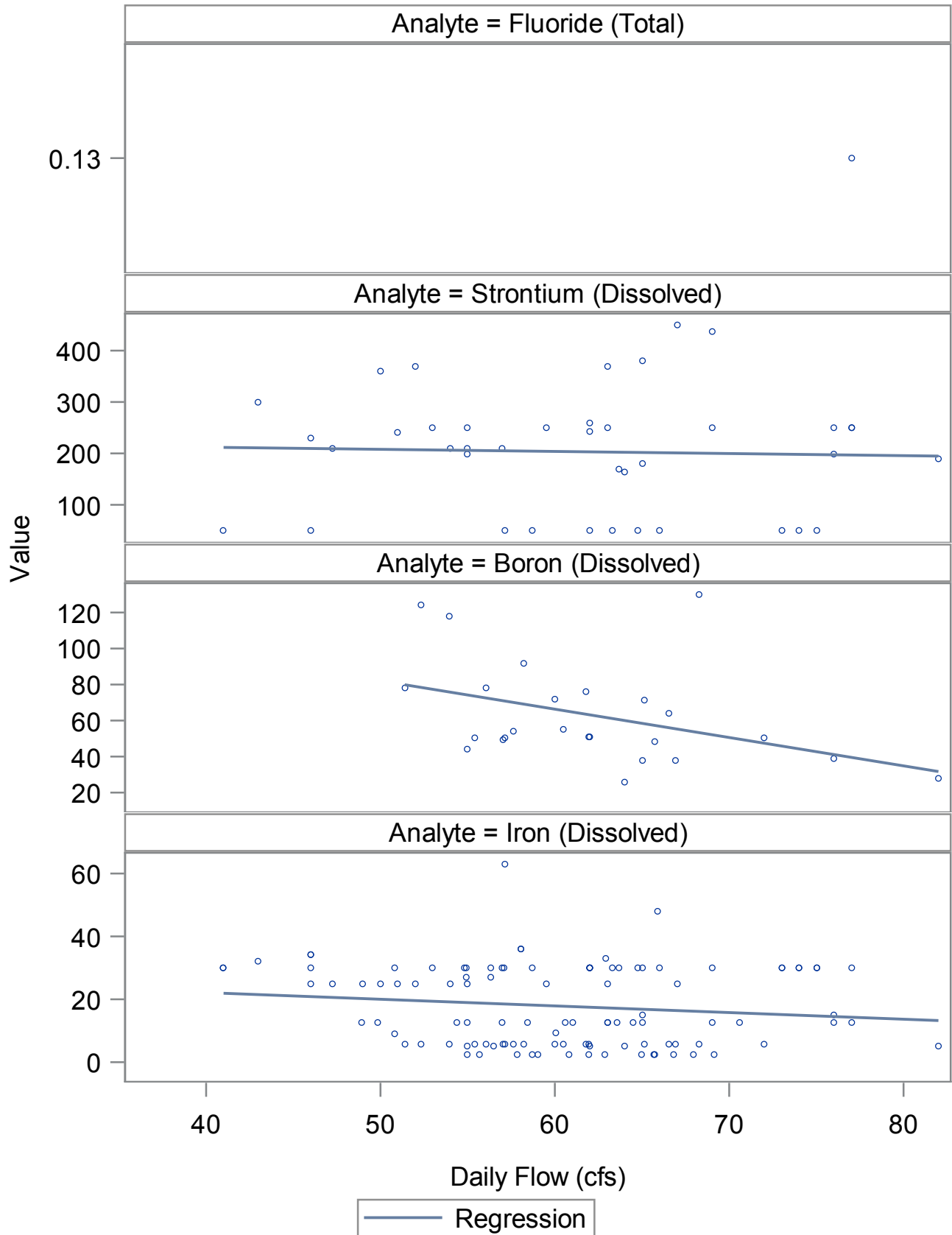
All Data Against Daily Flows

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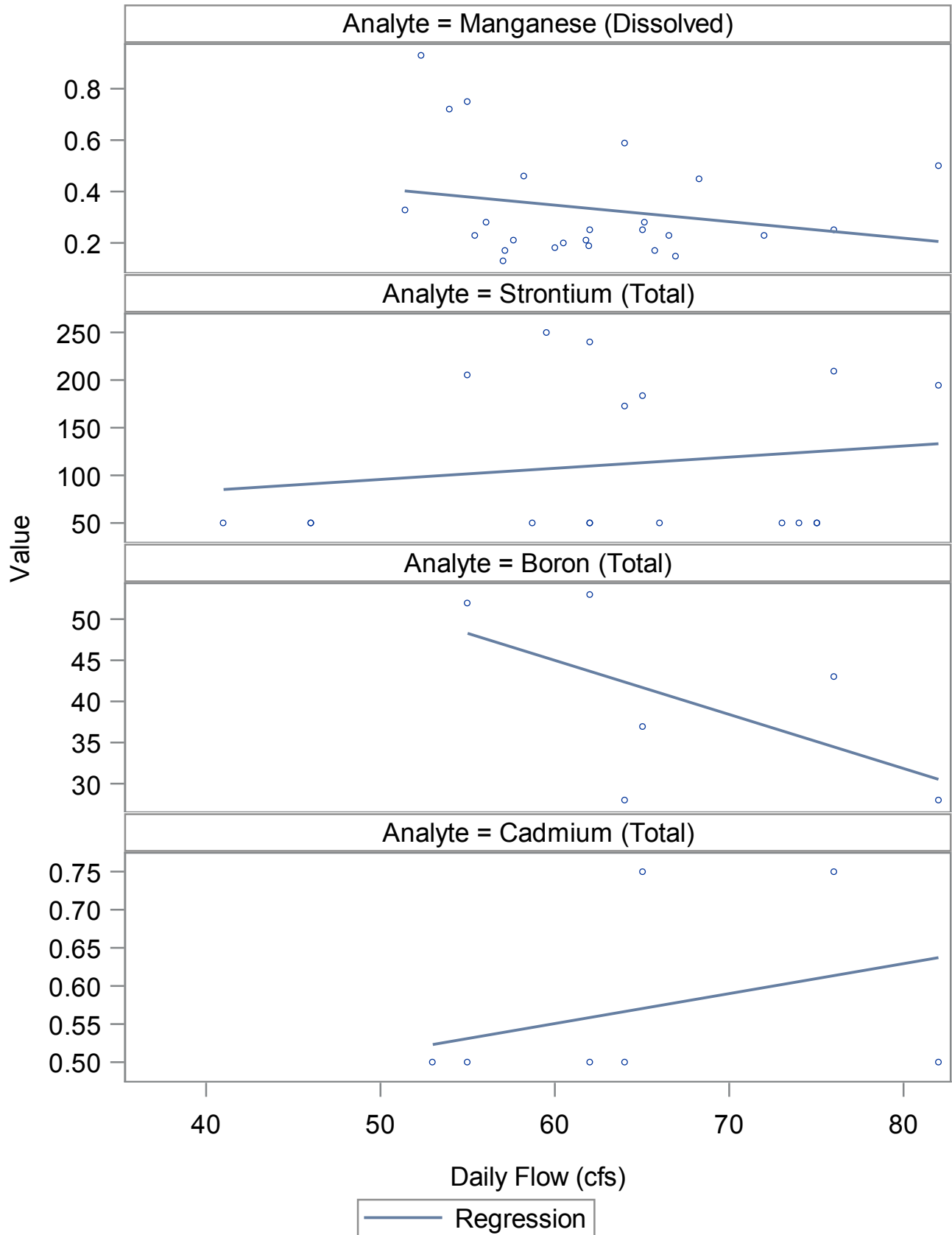
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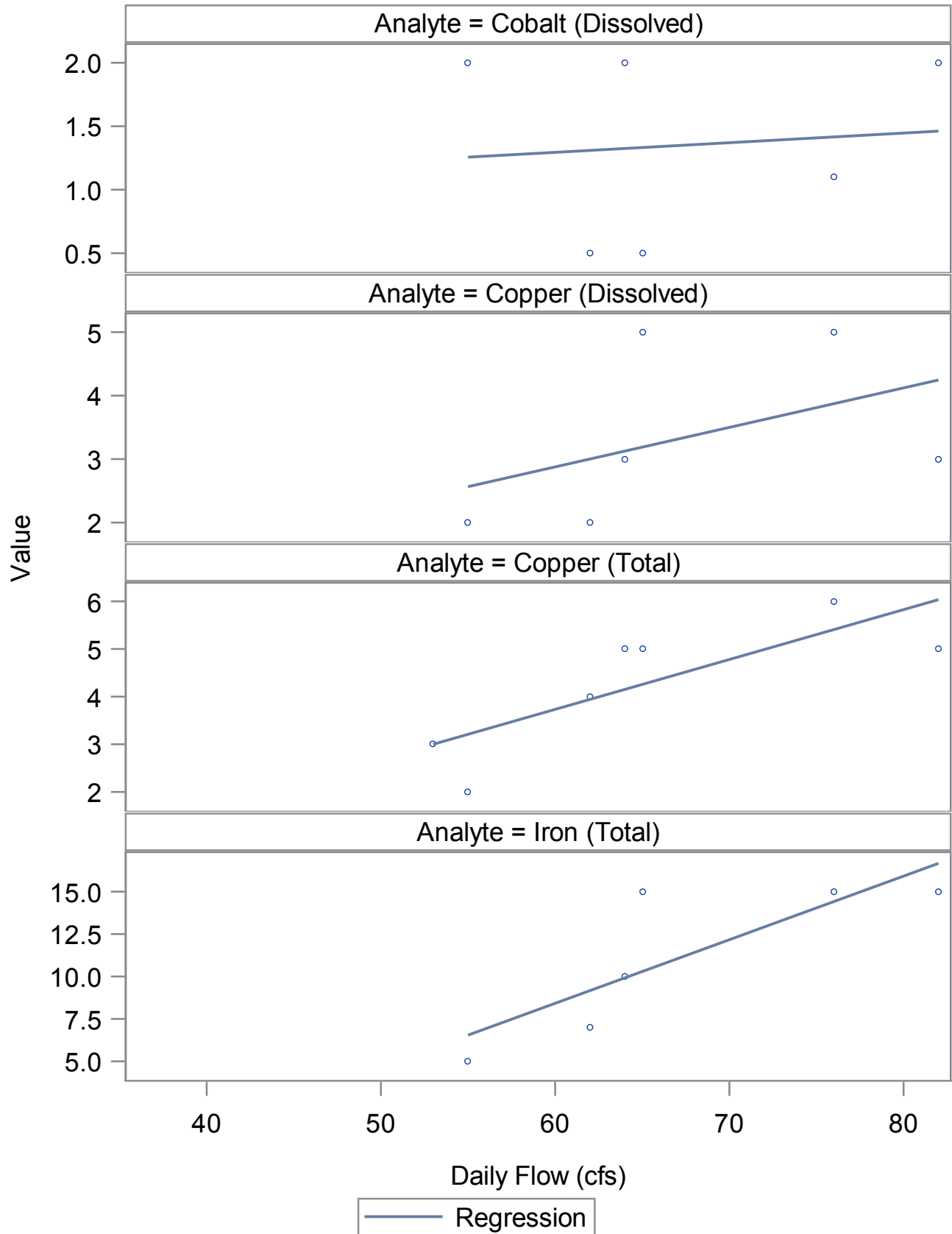
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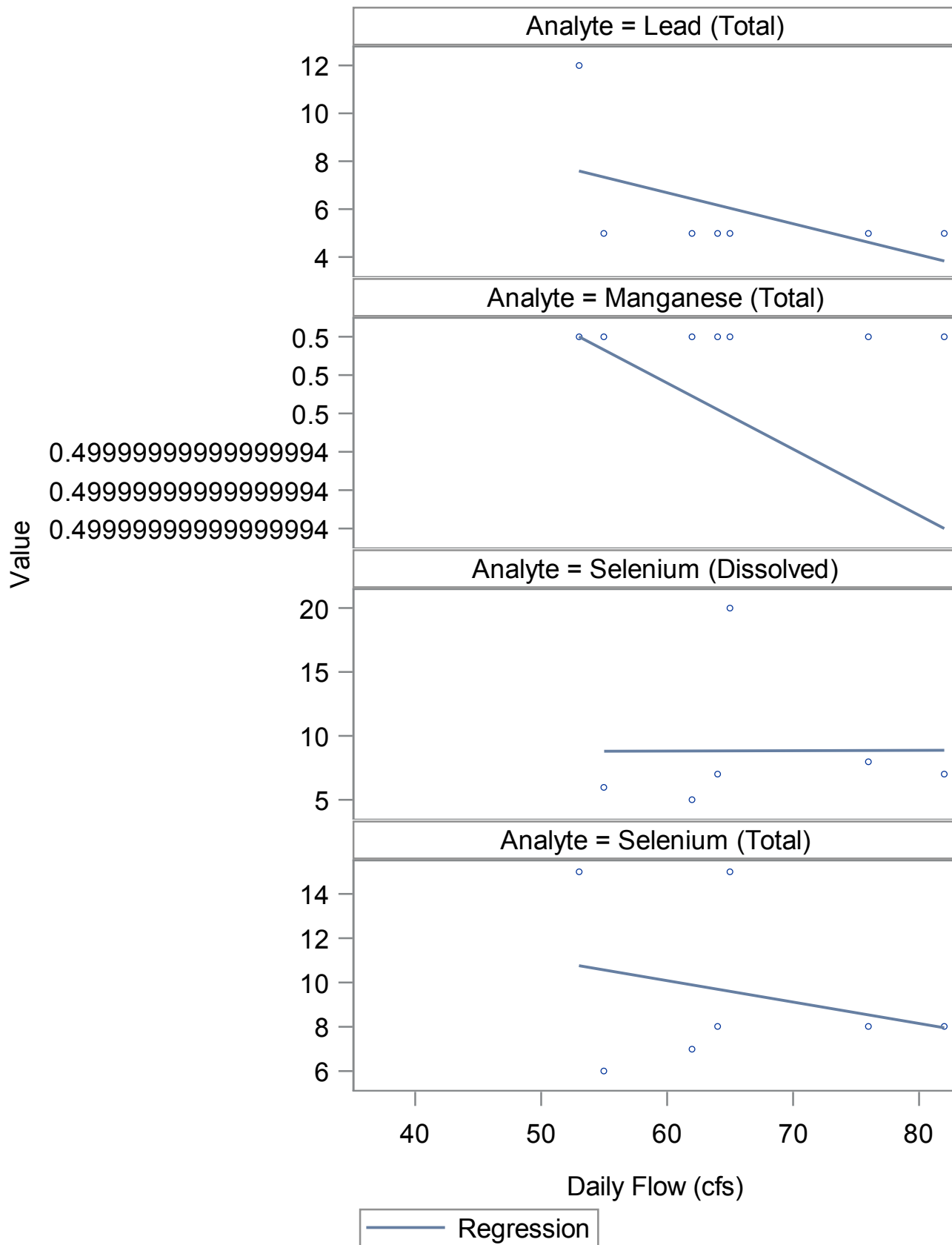
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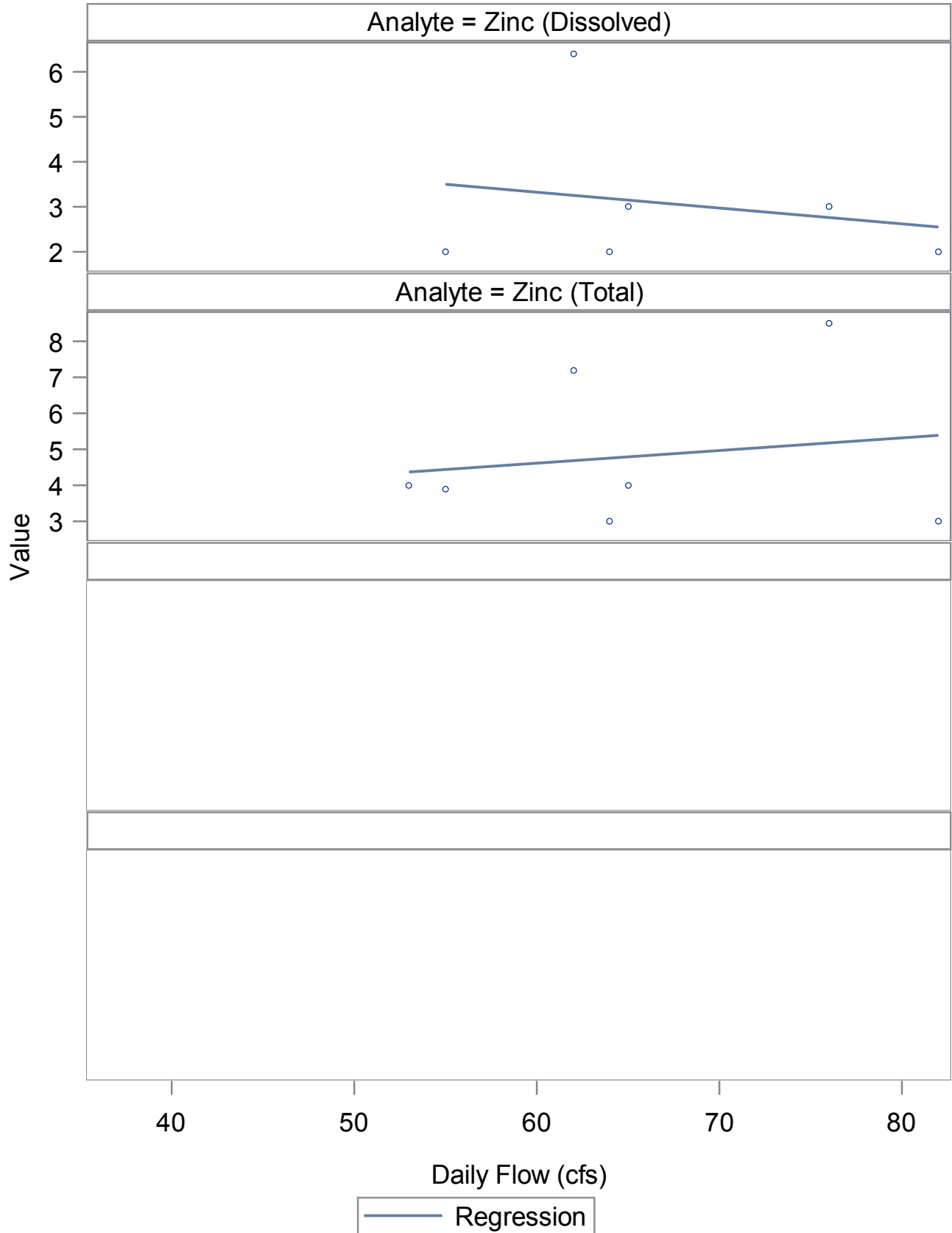
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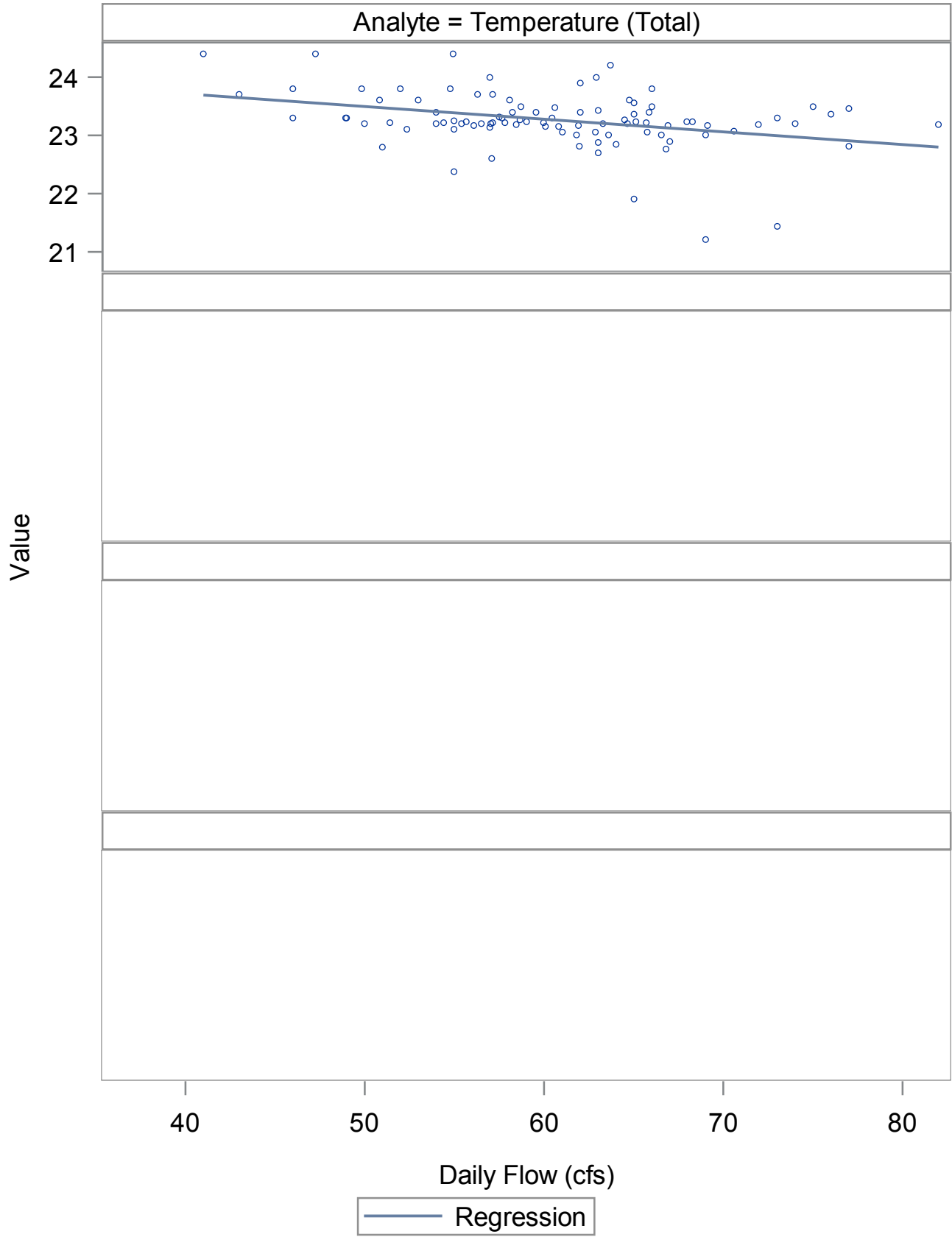
All Data Against Daily Flows

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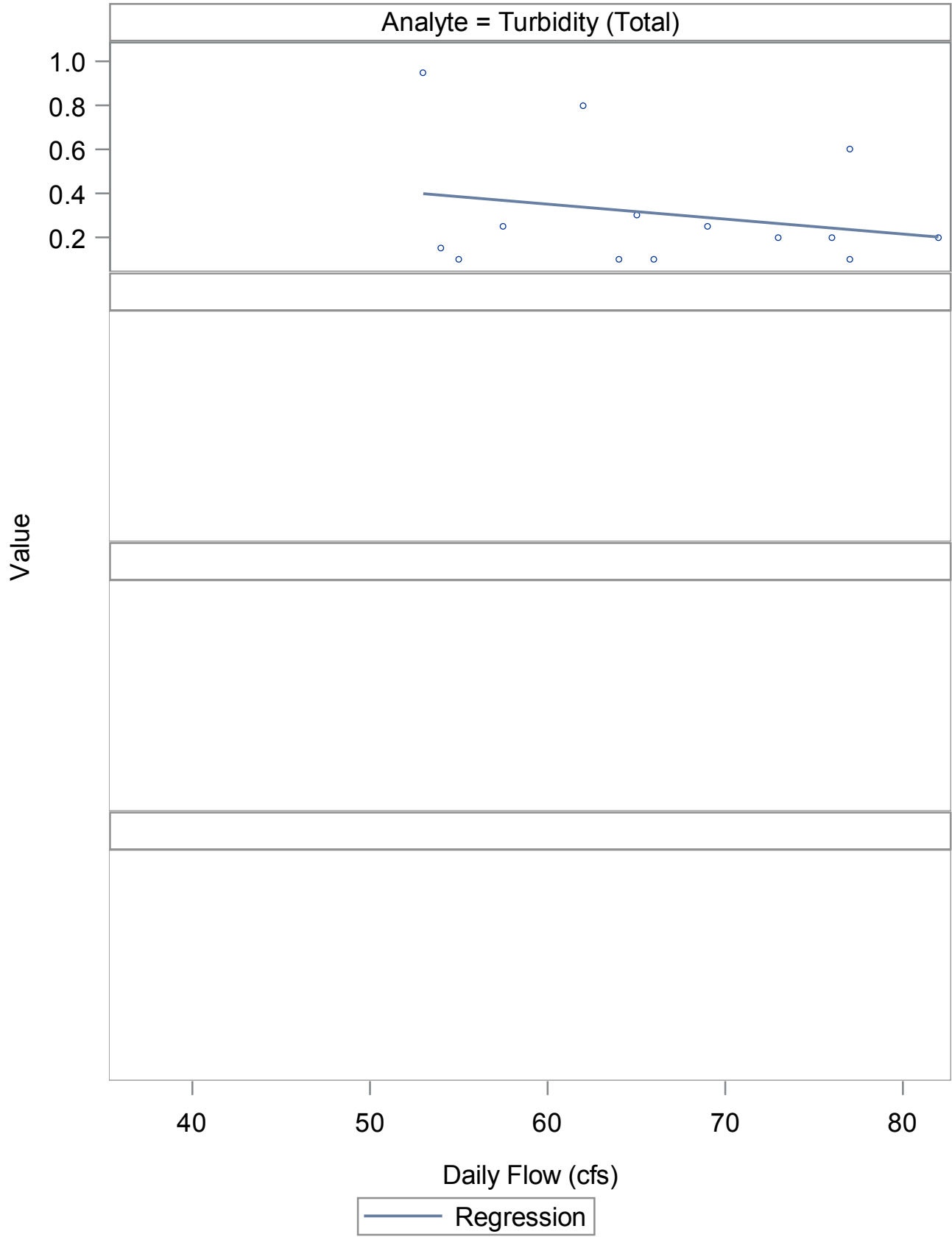
All Data Against Daily Flows

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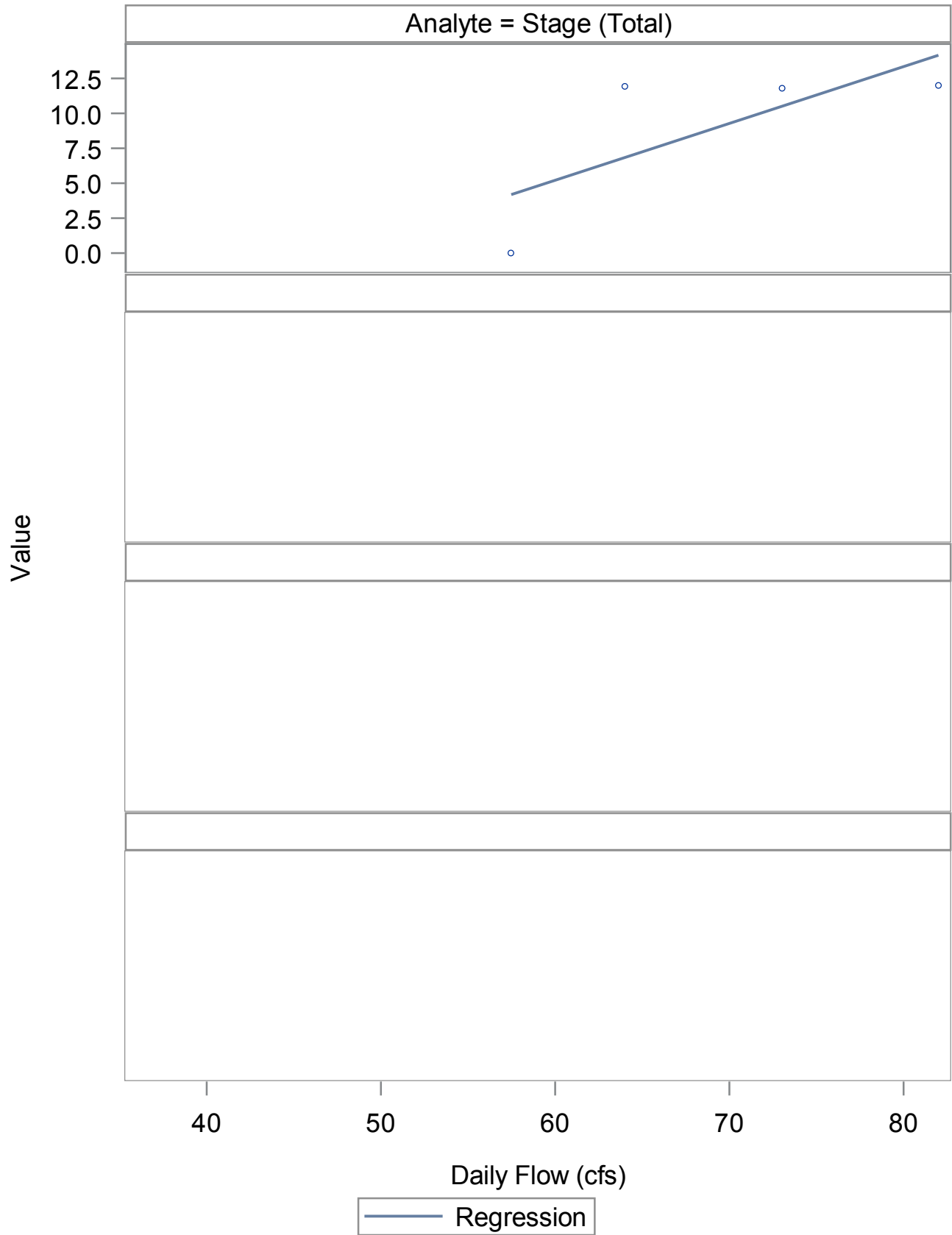
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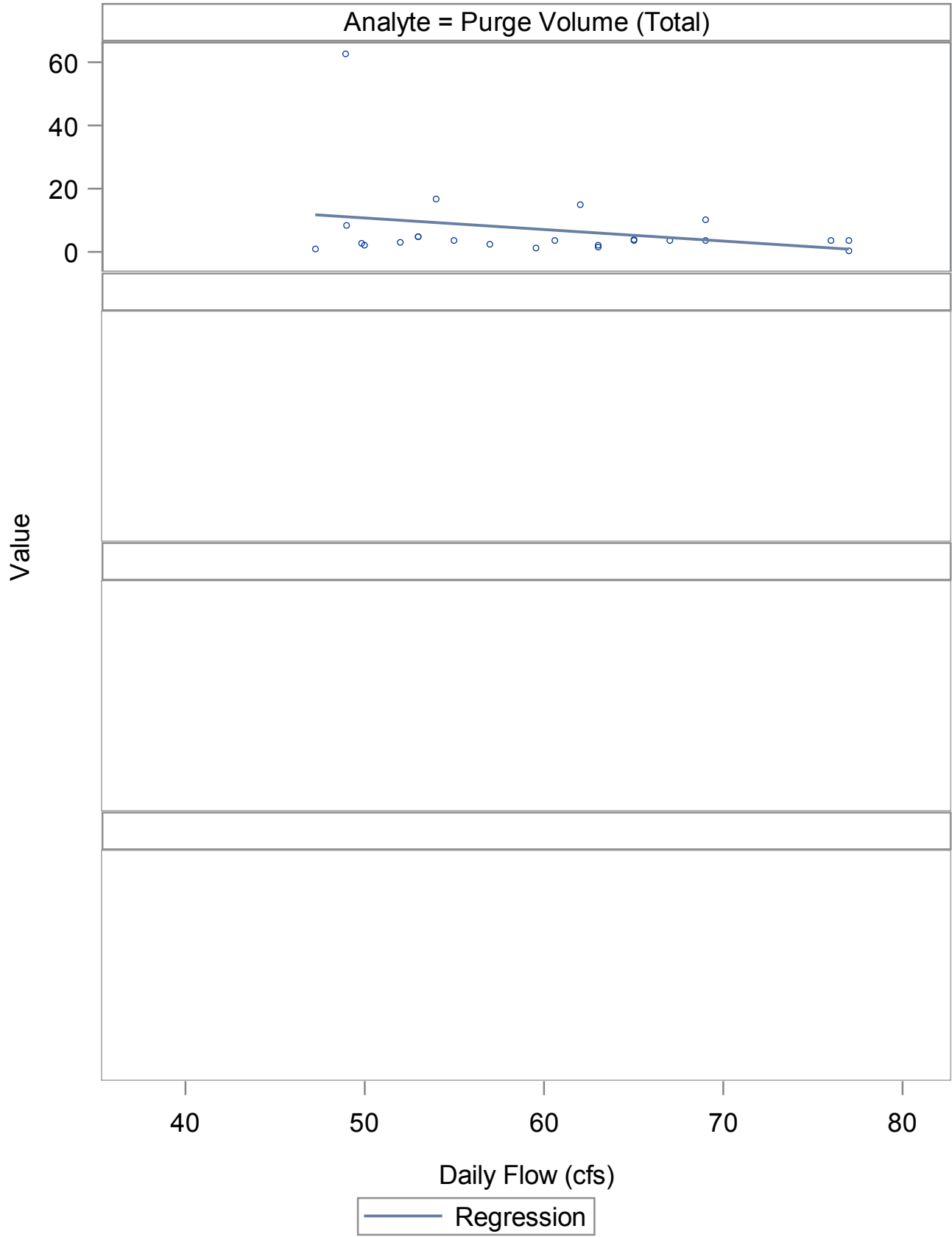
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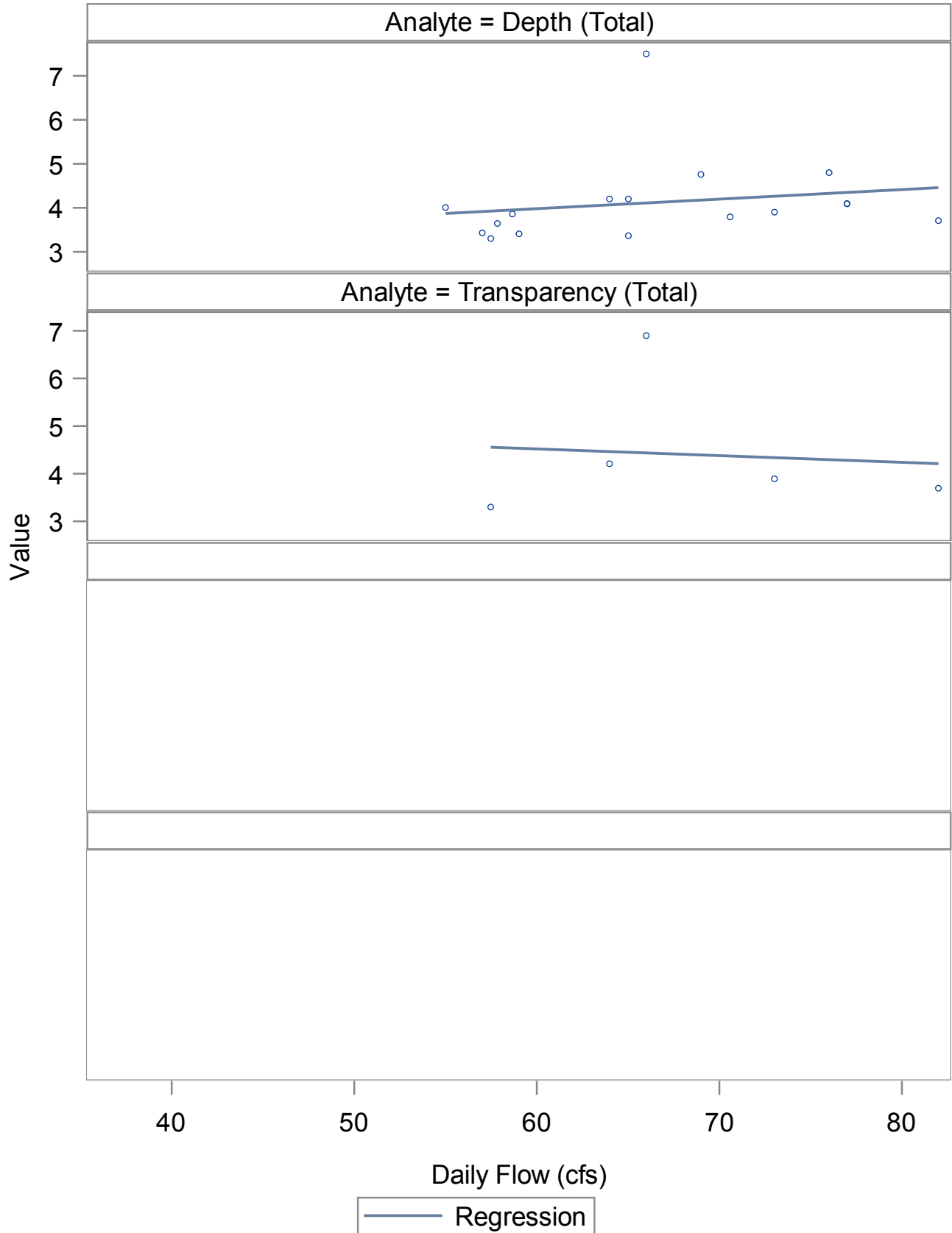
All Data Against Daily Flows

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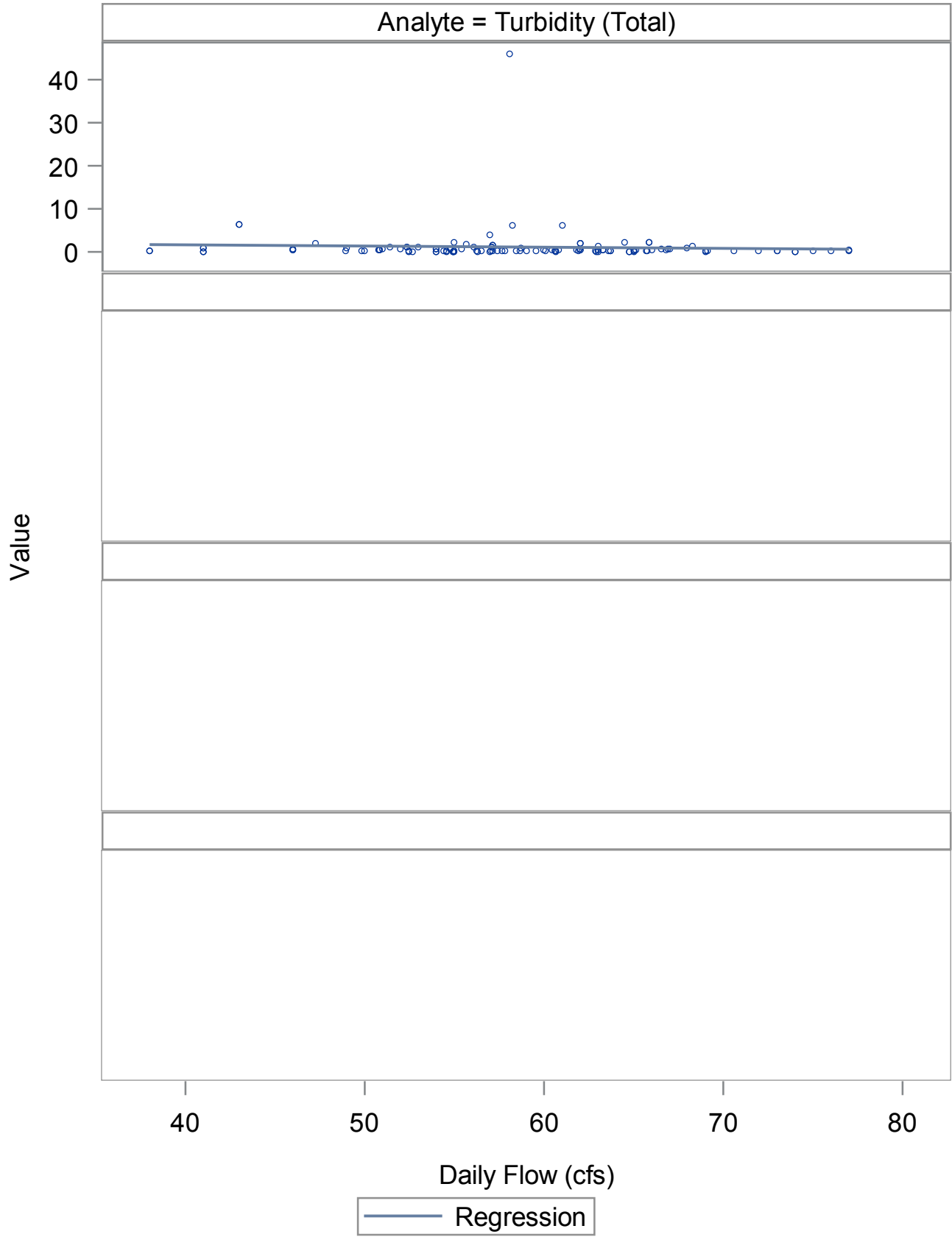
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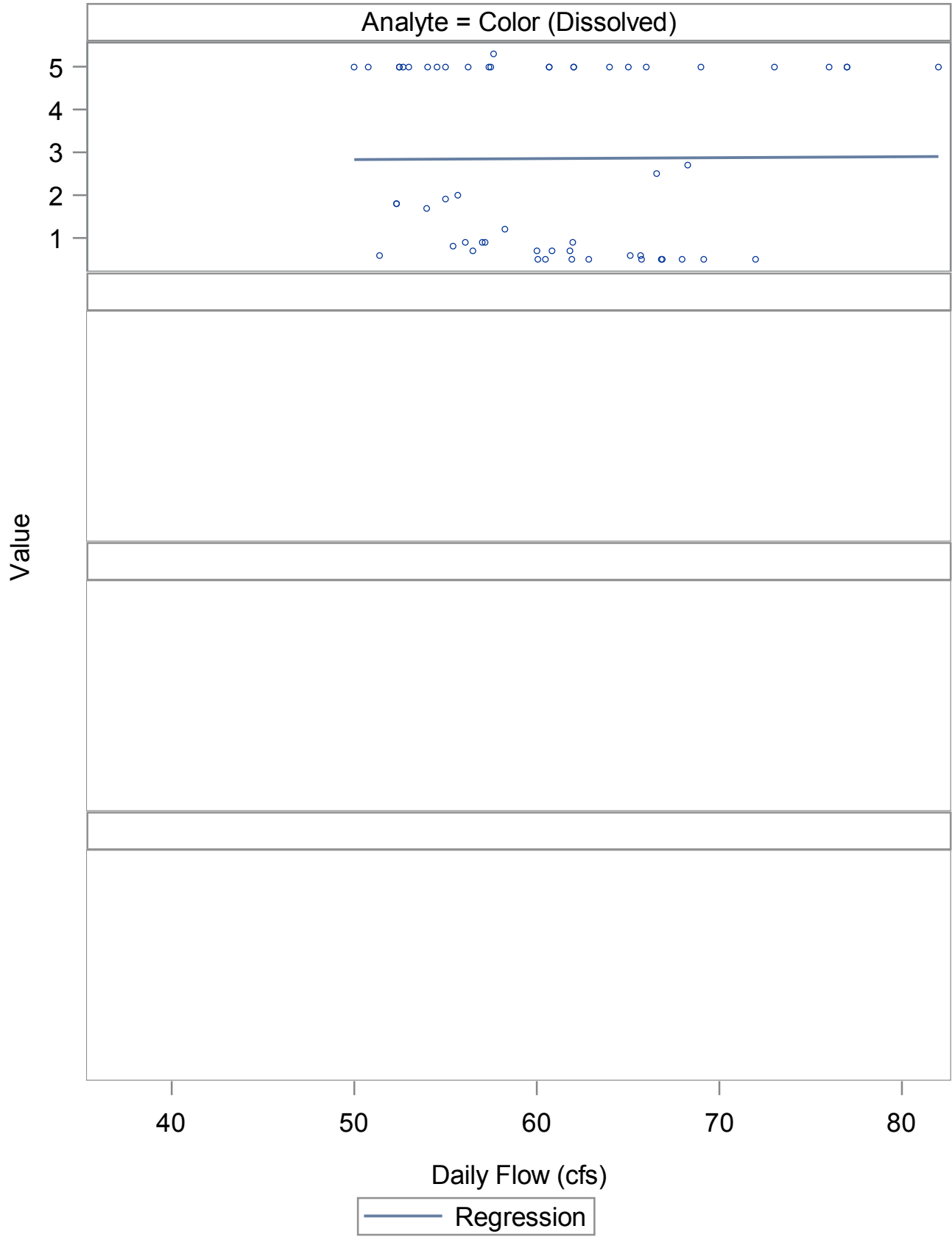
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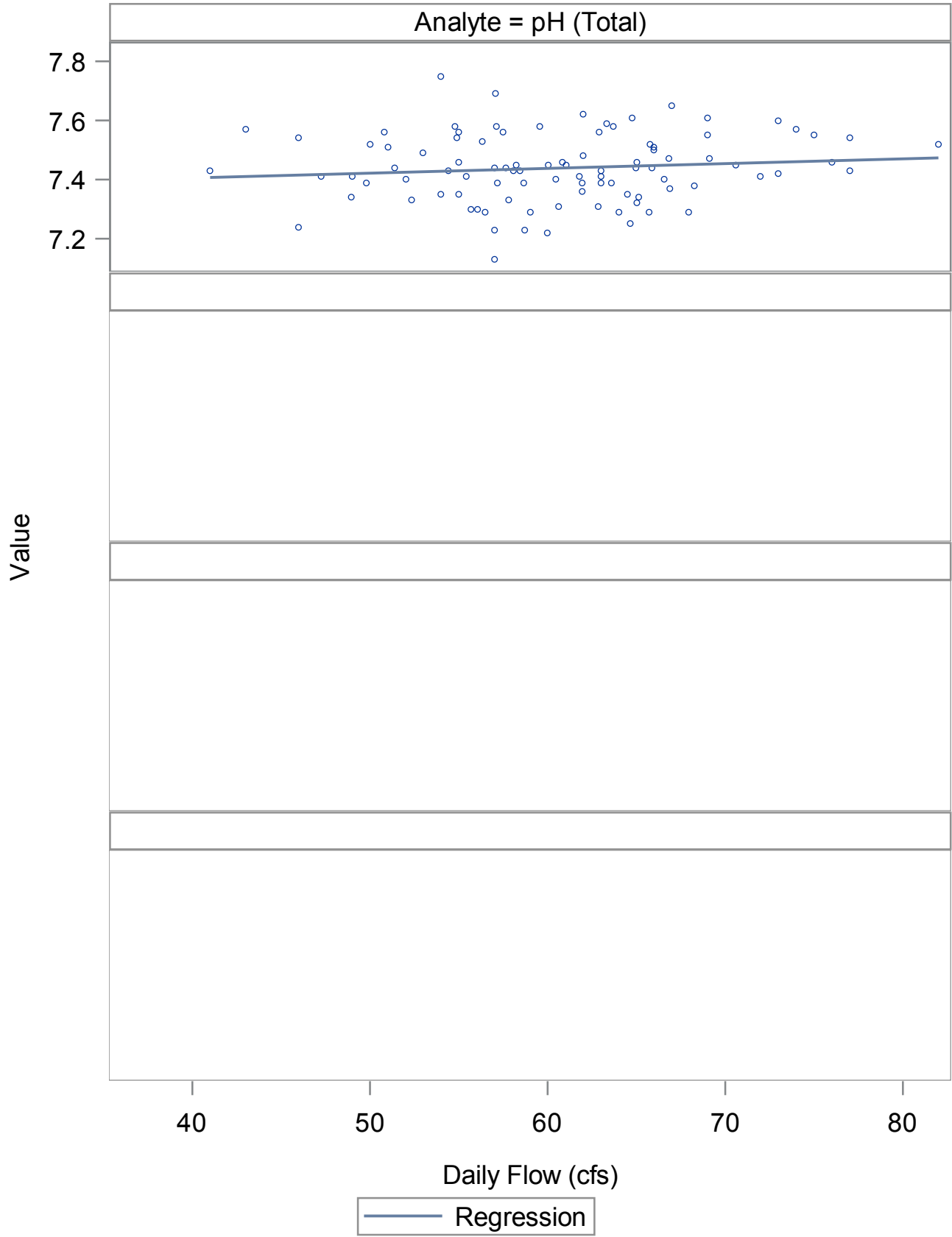
All Data Against Daily Flows

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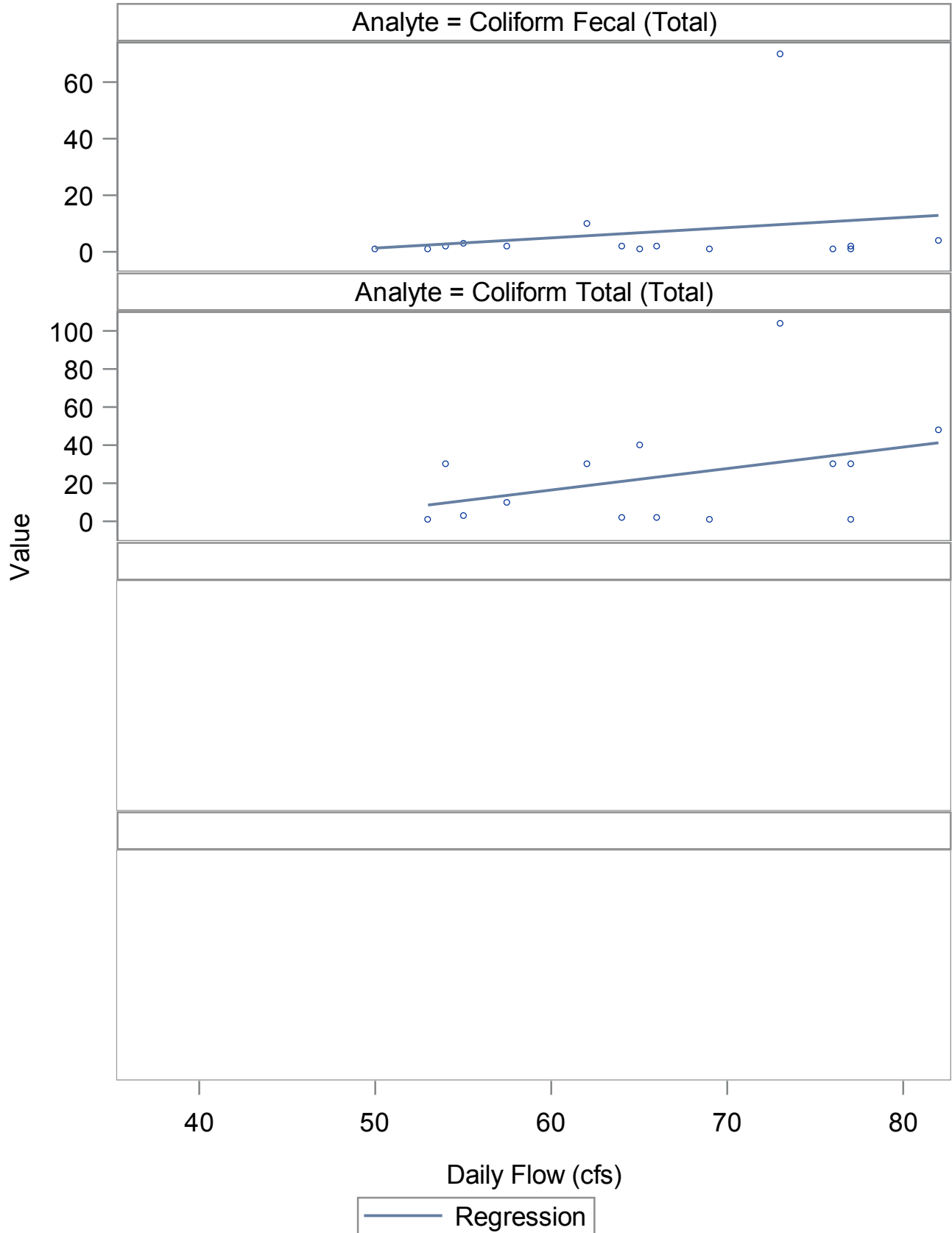
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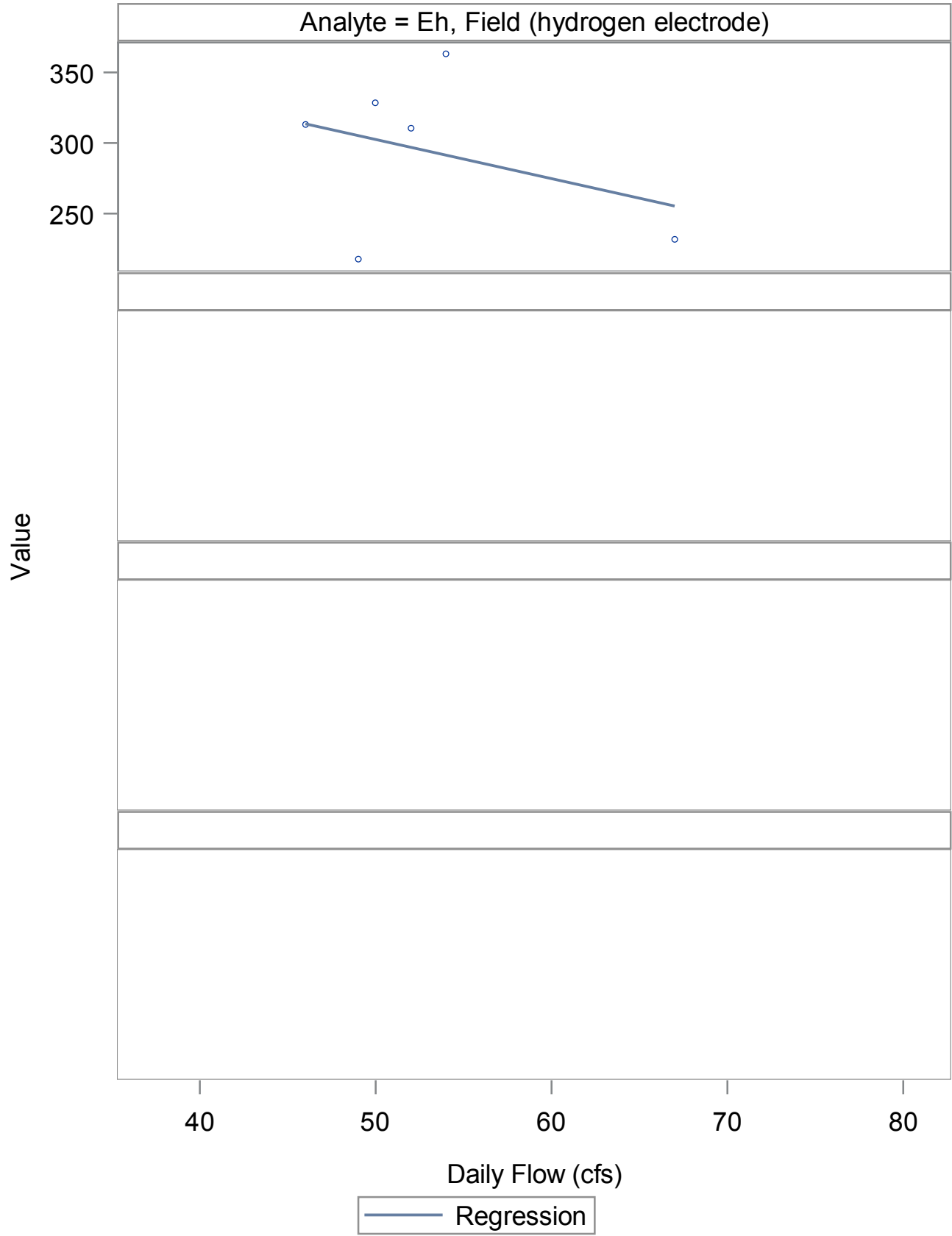
All Data Against Daily Flows

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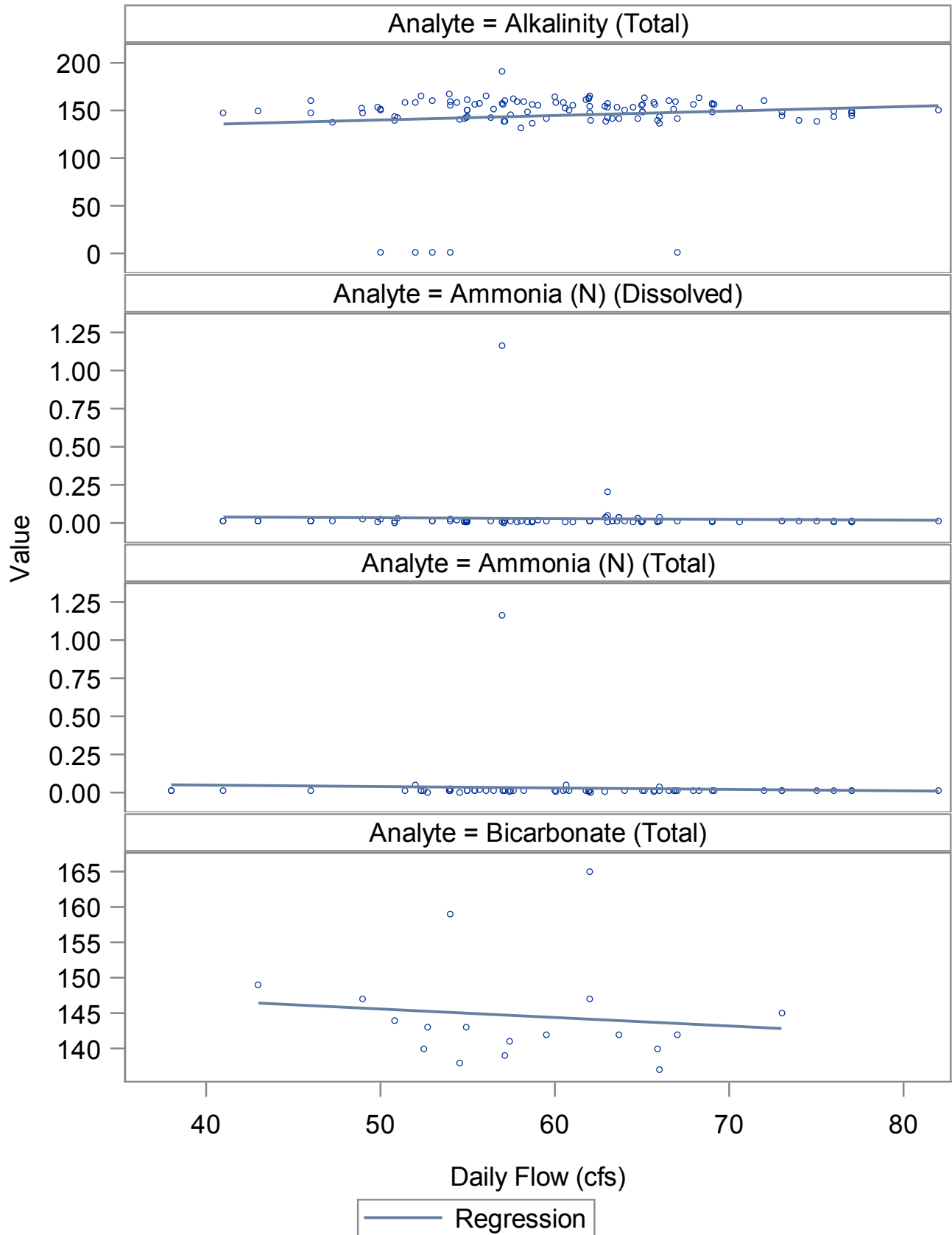
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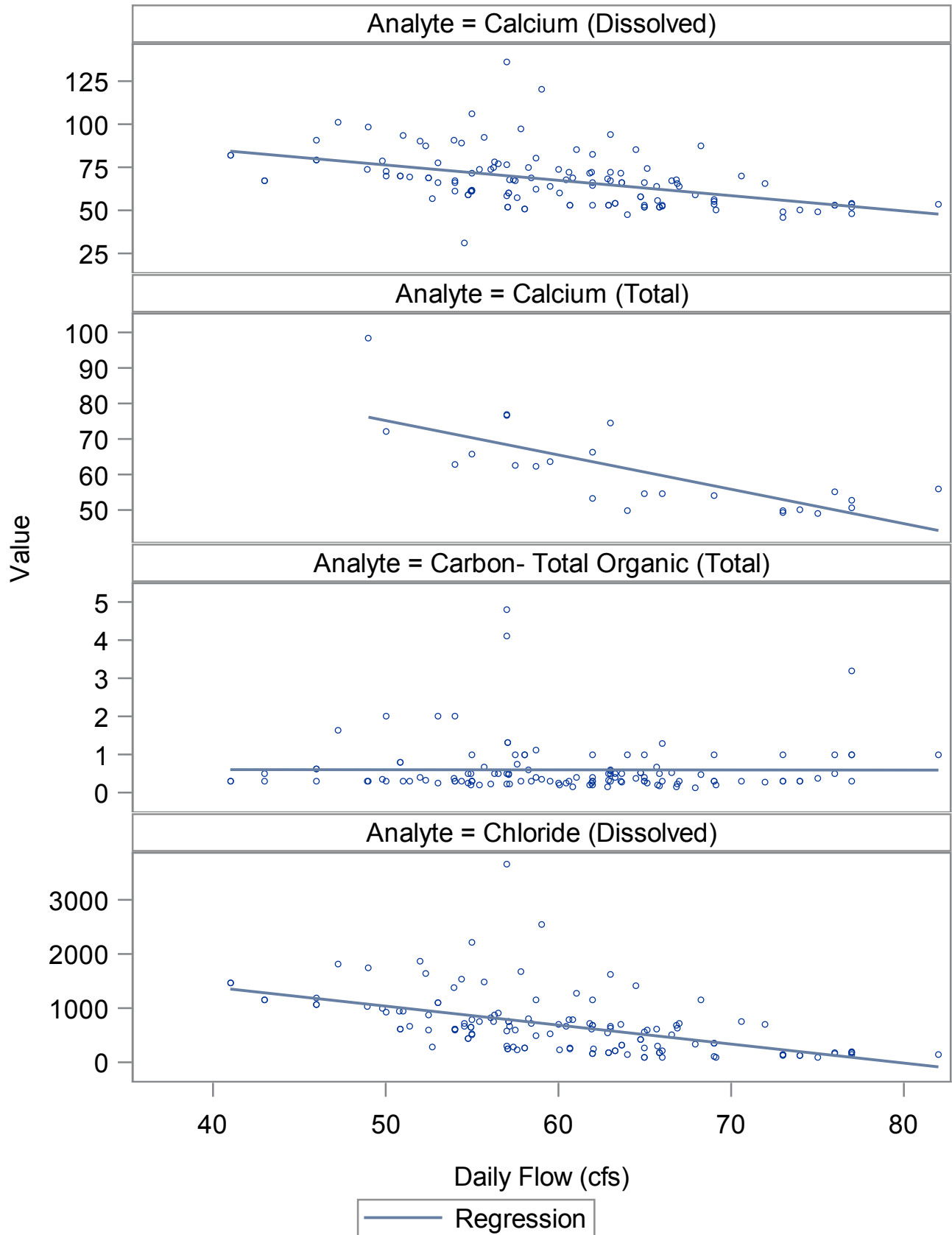
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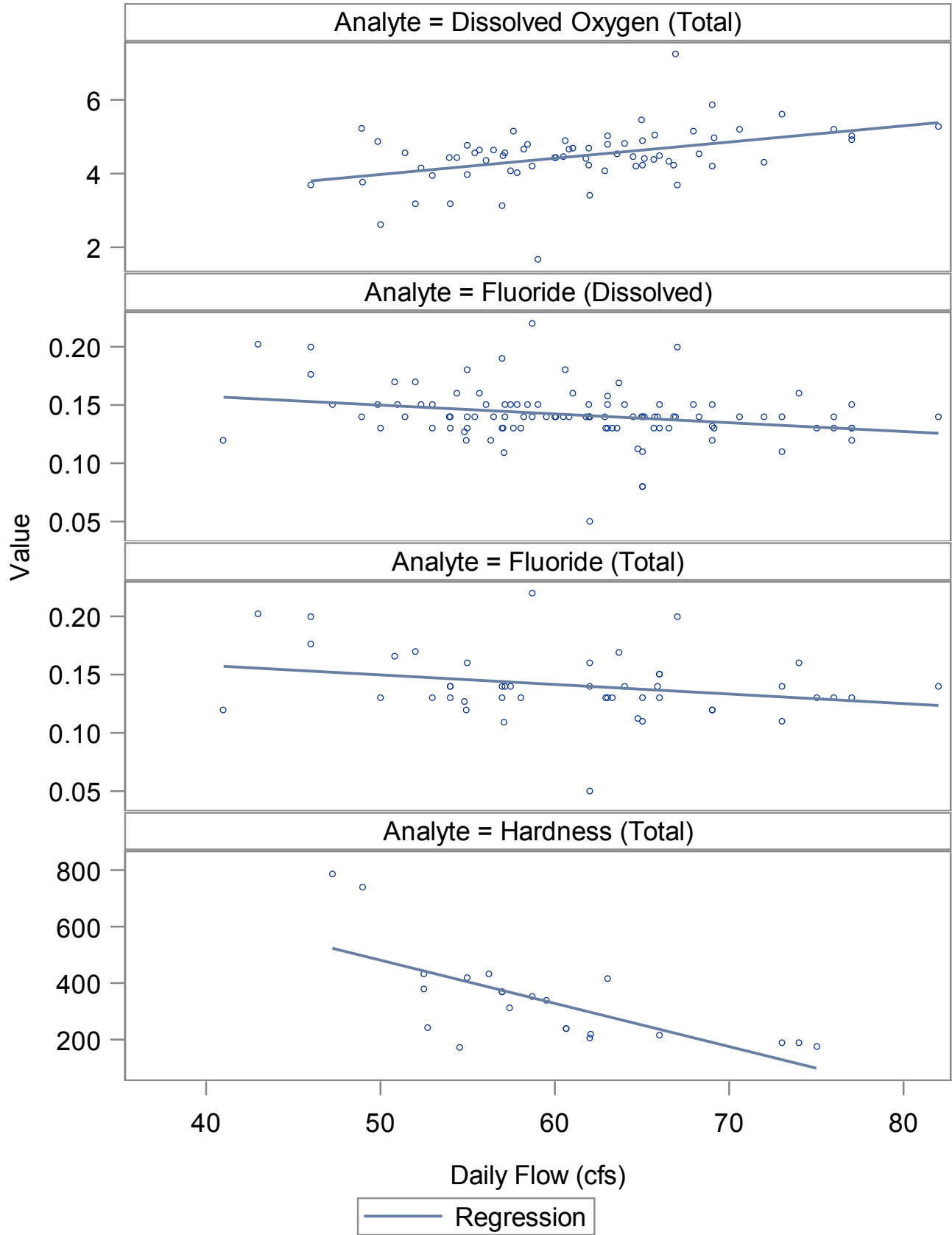
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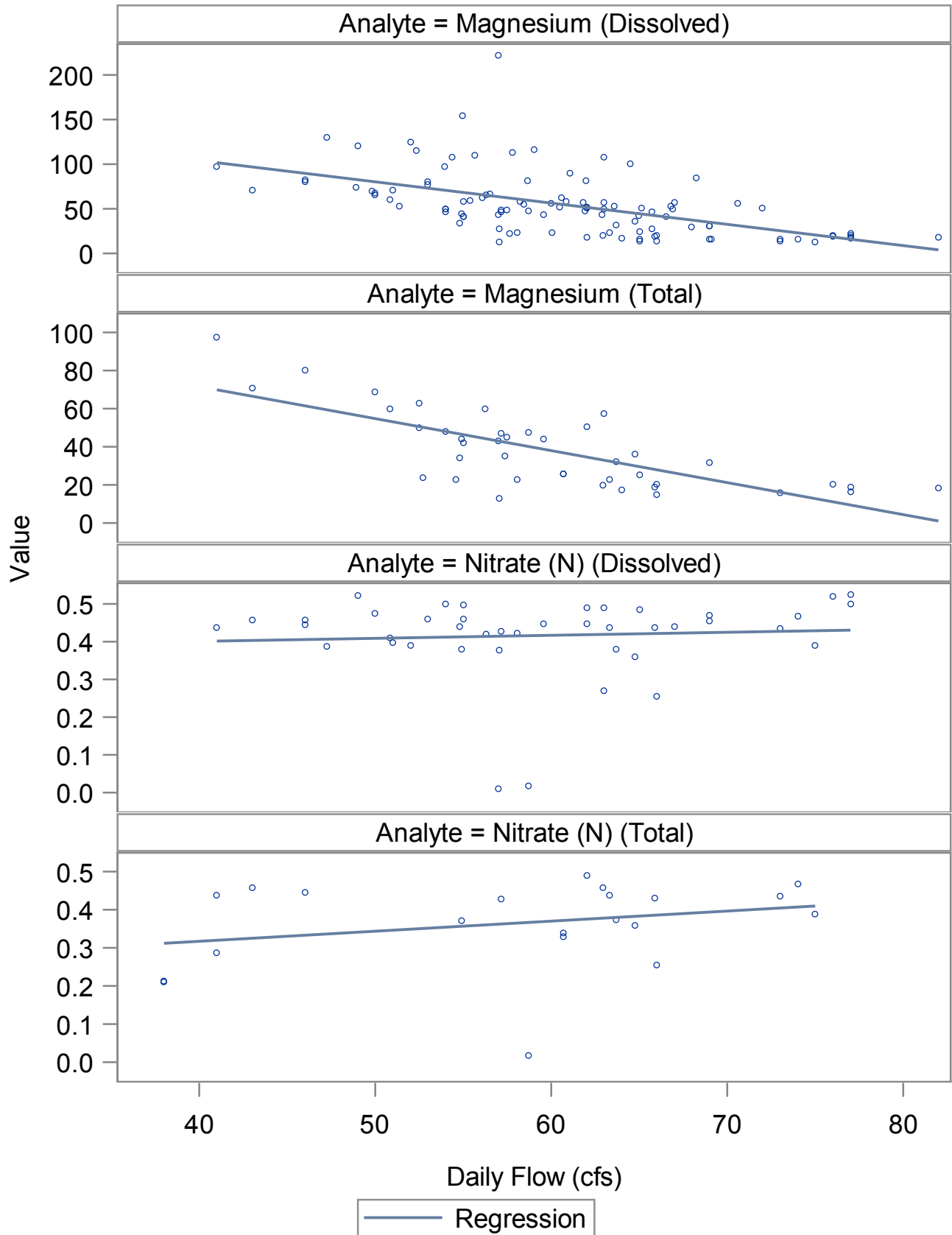
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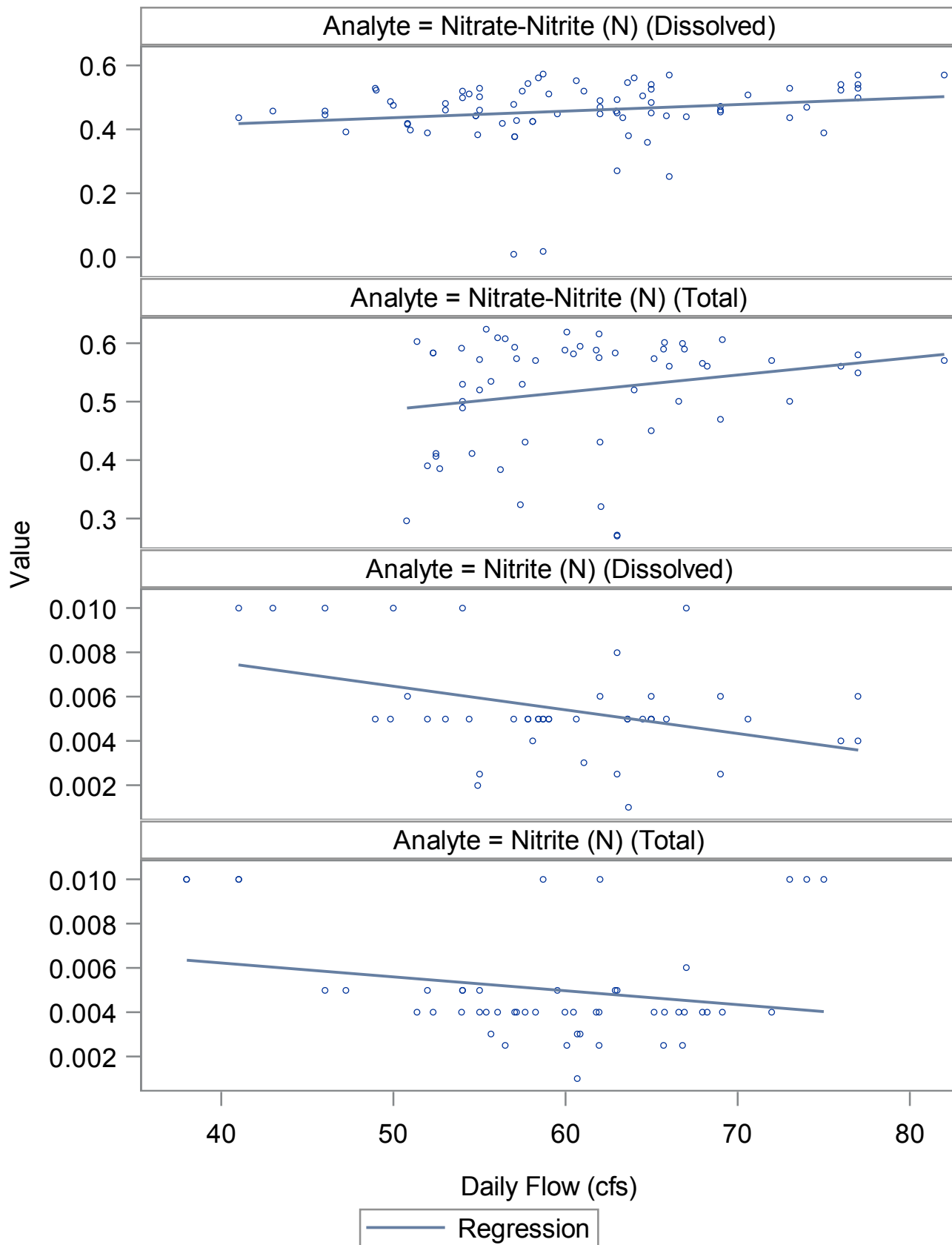
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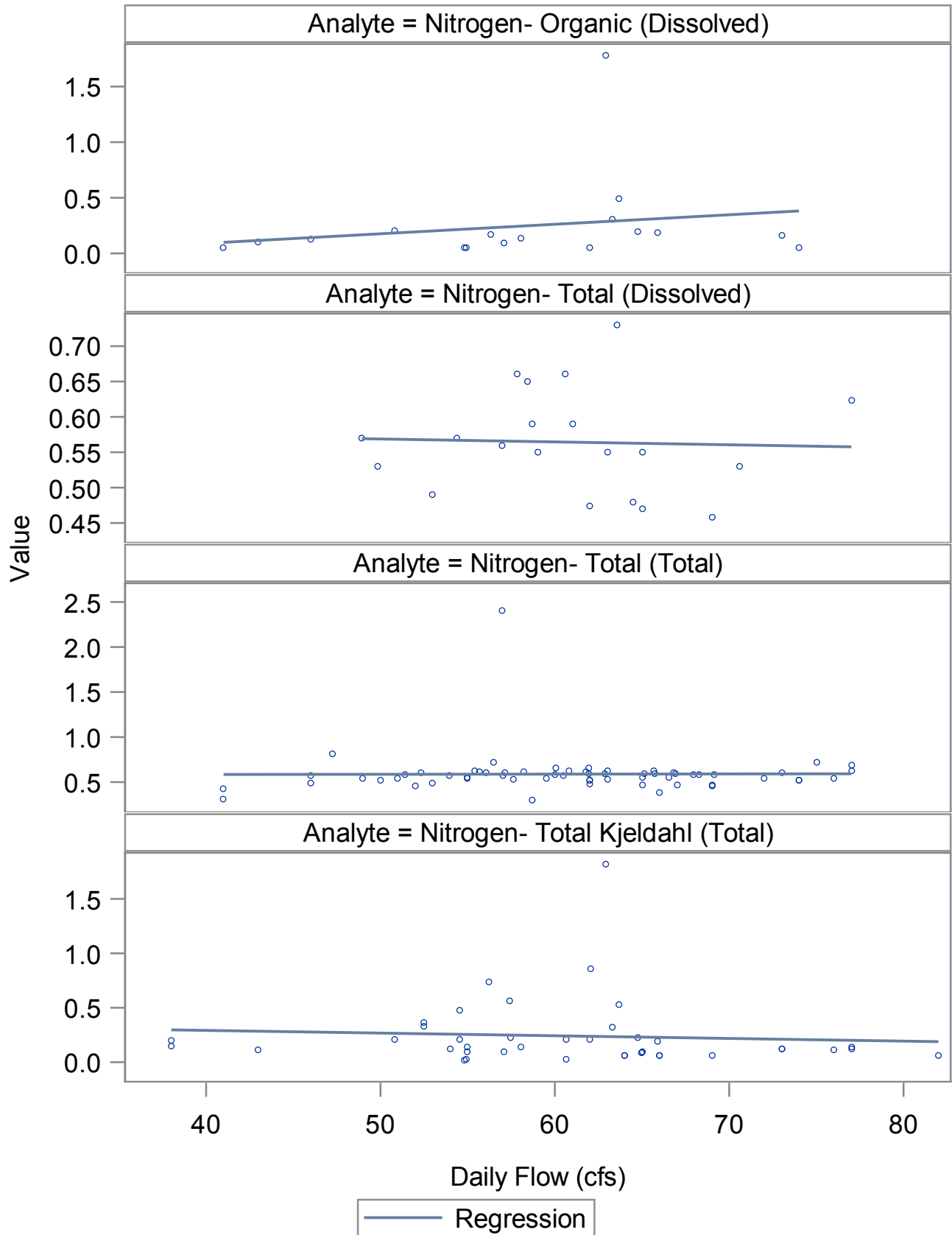
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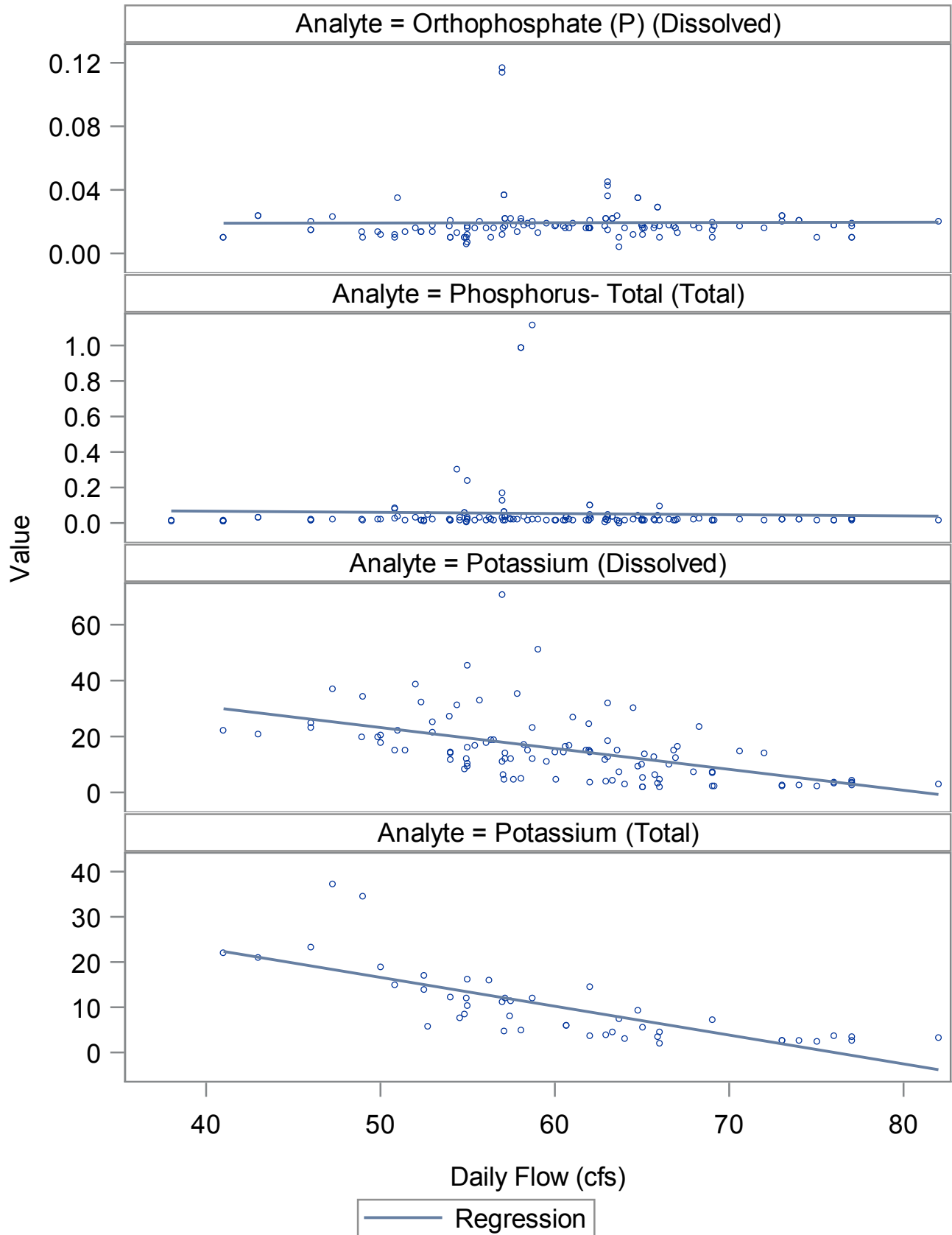
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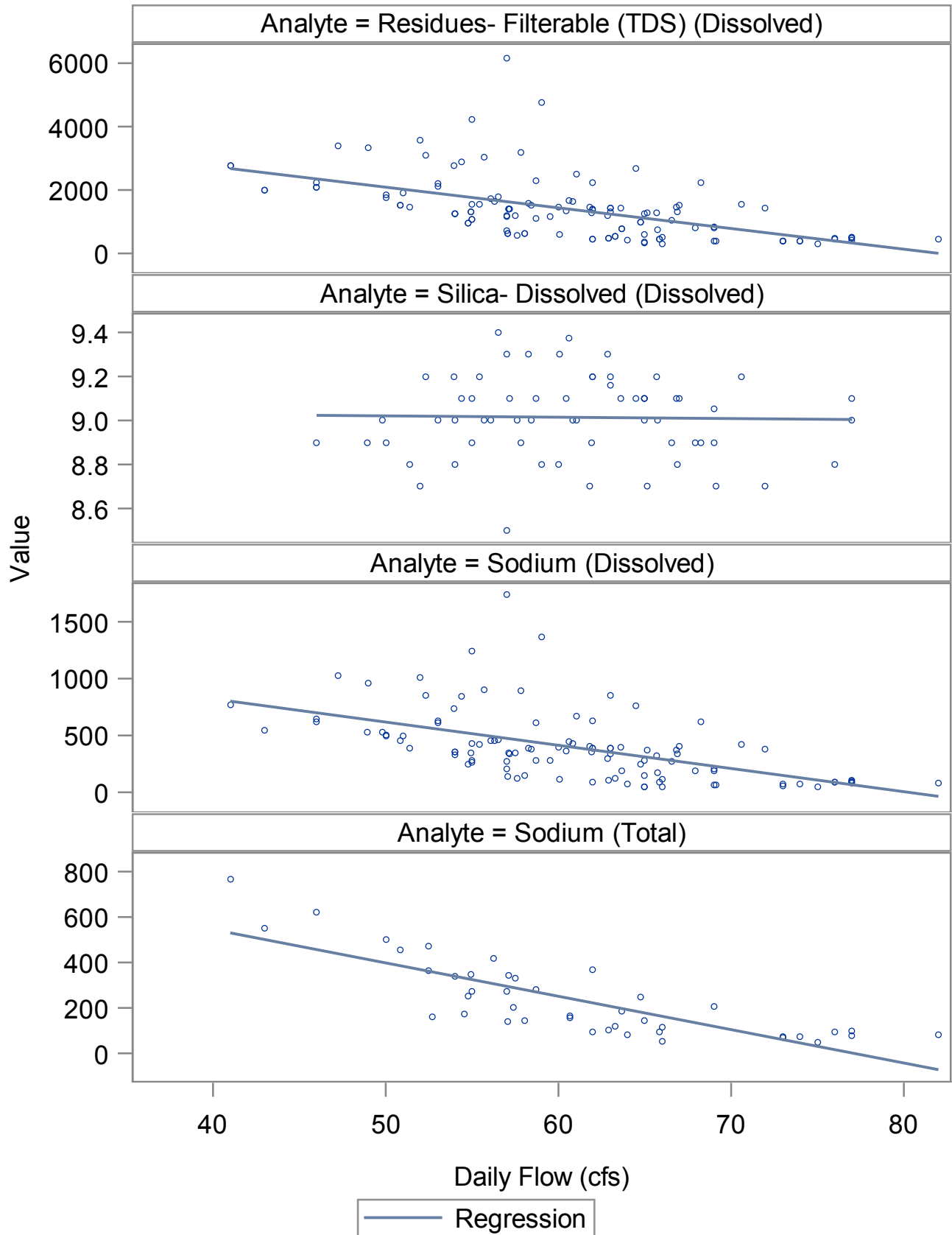
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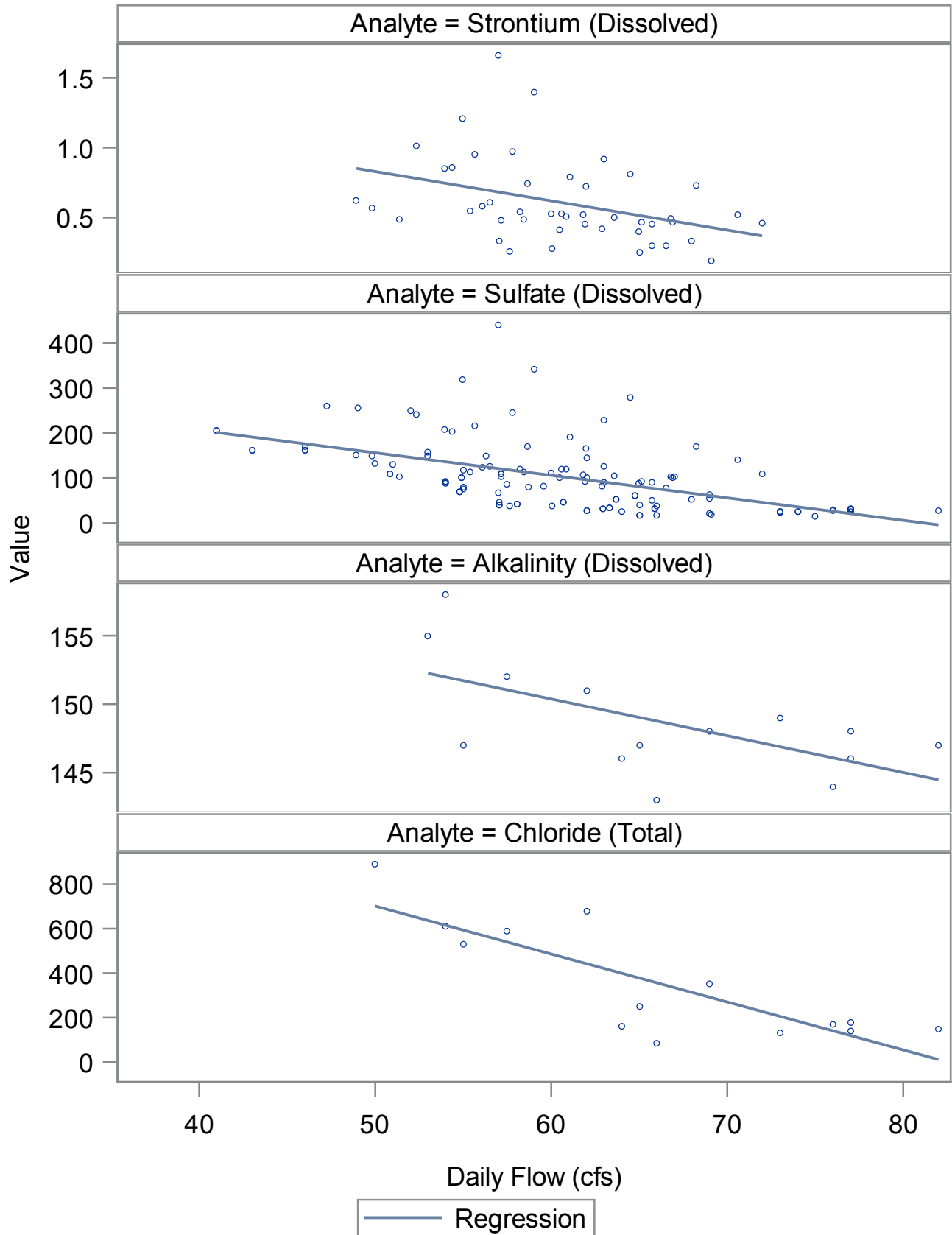
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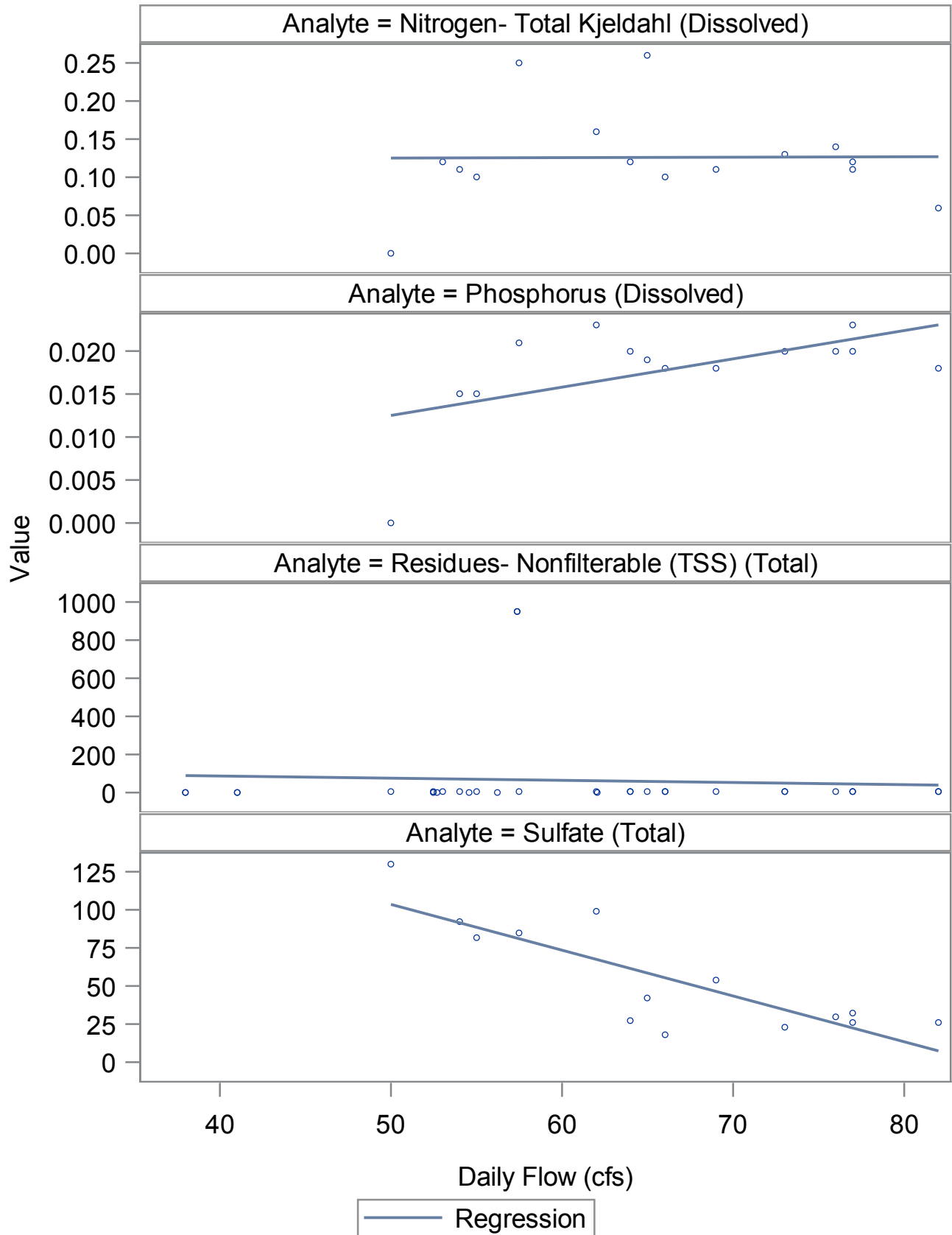
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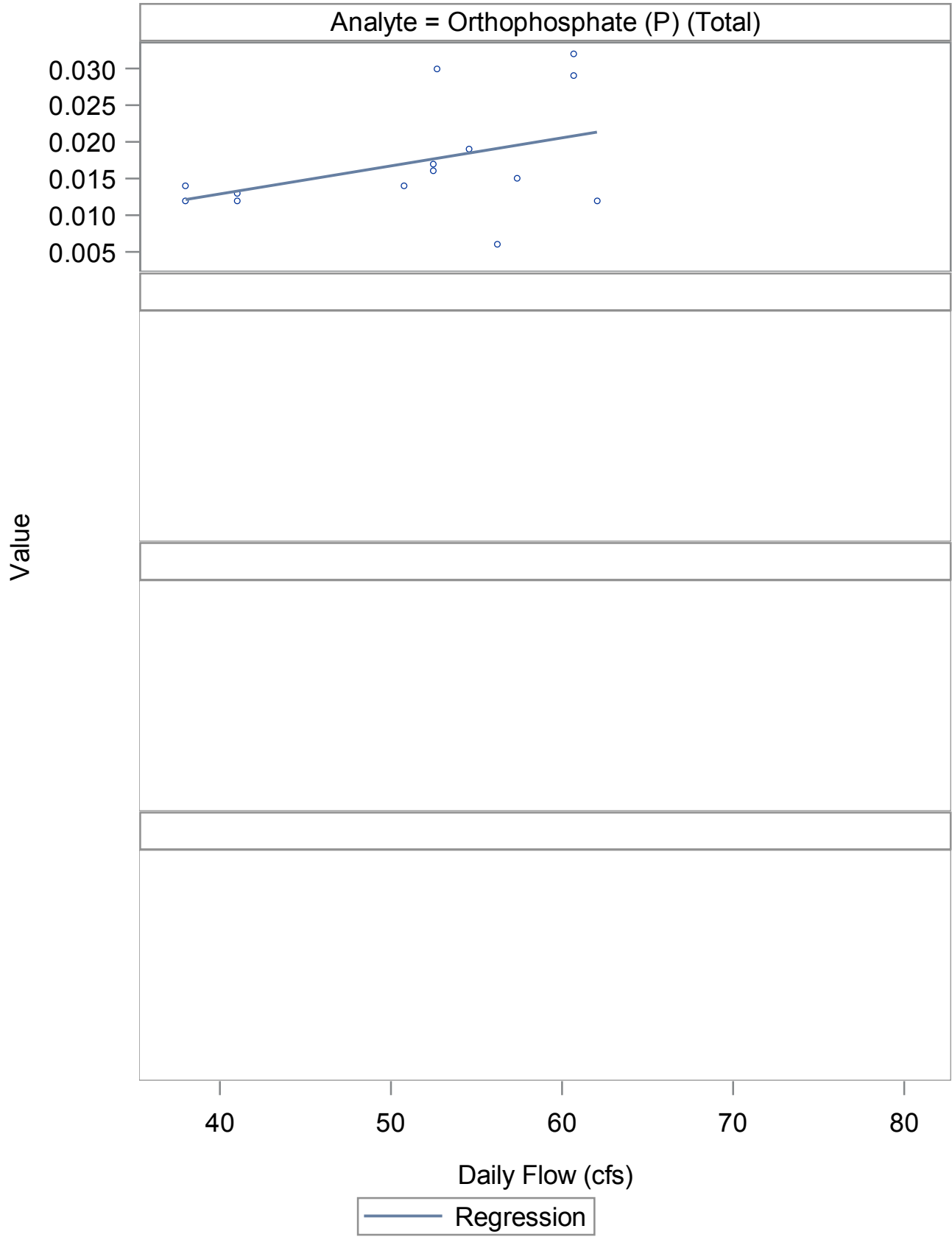
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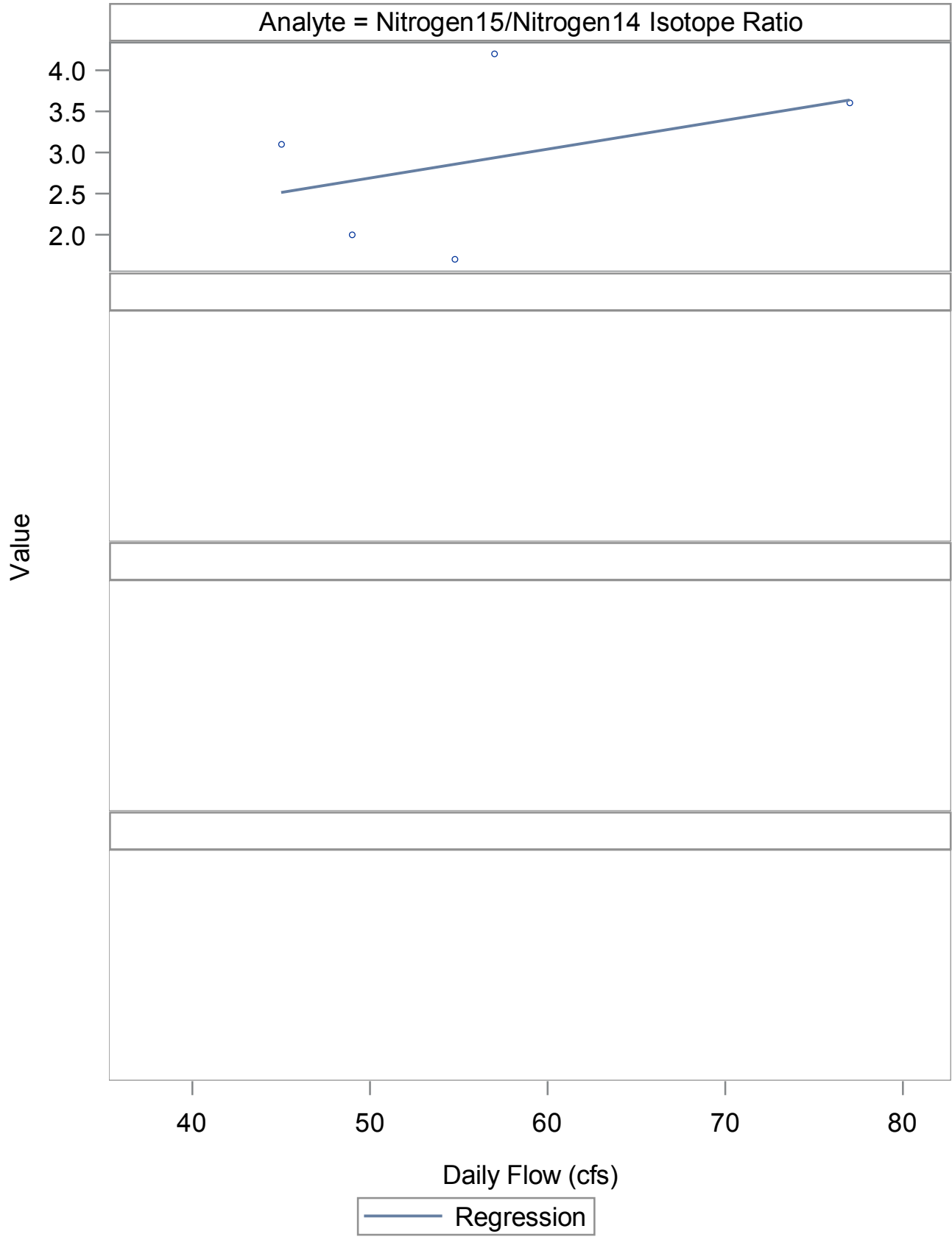
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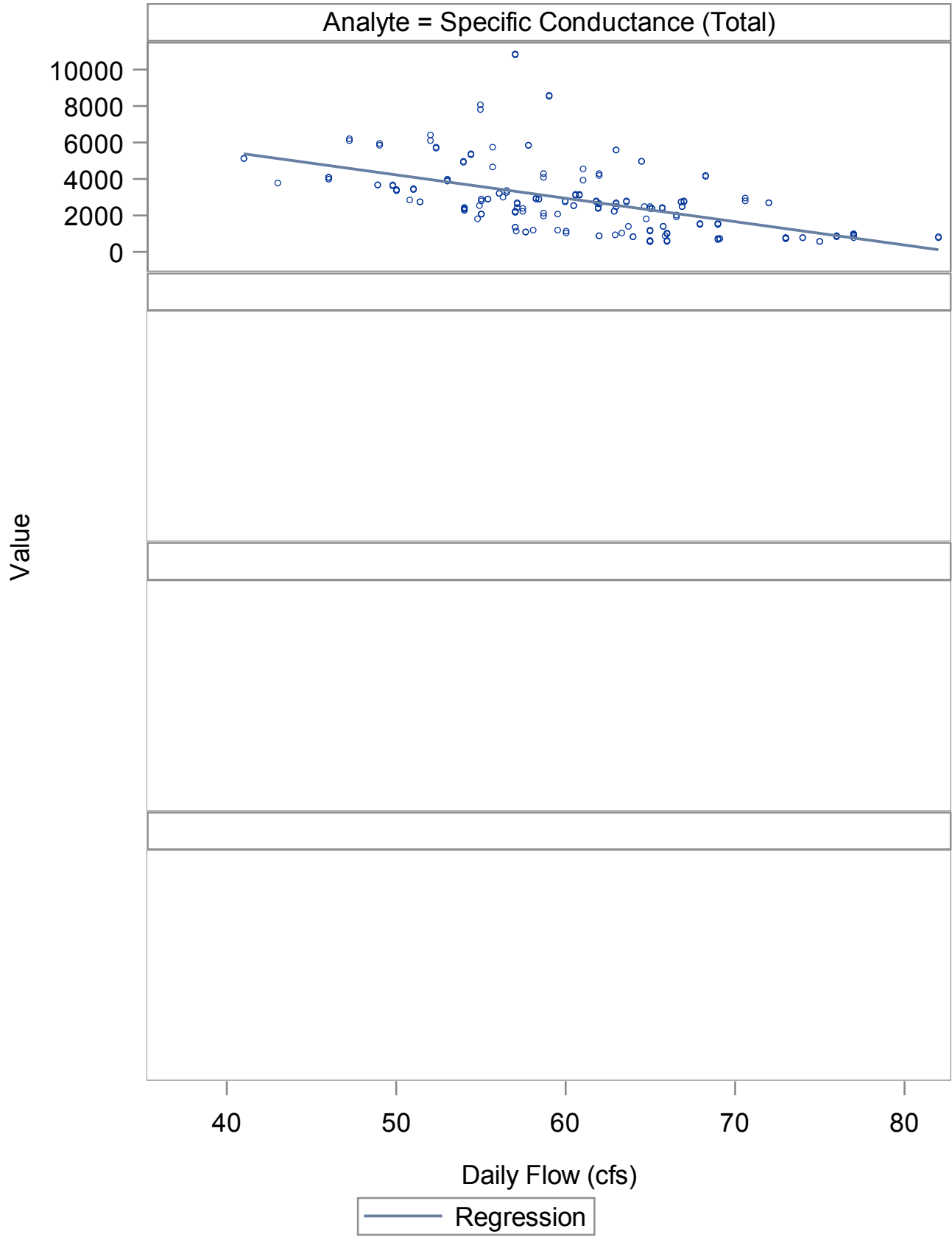
All Data Against Daily Flows

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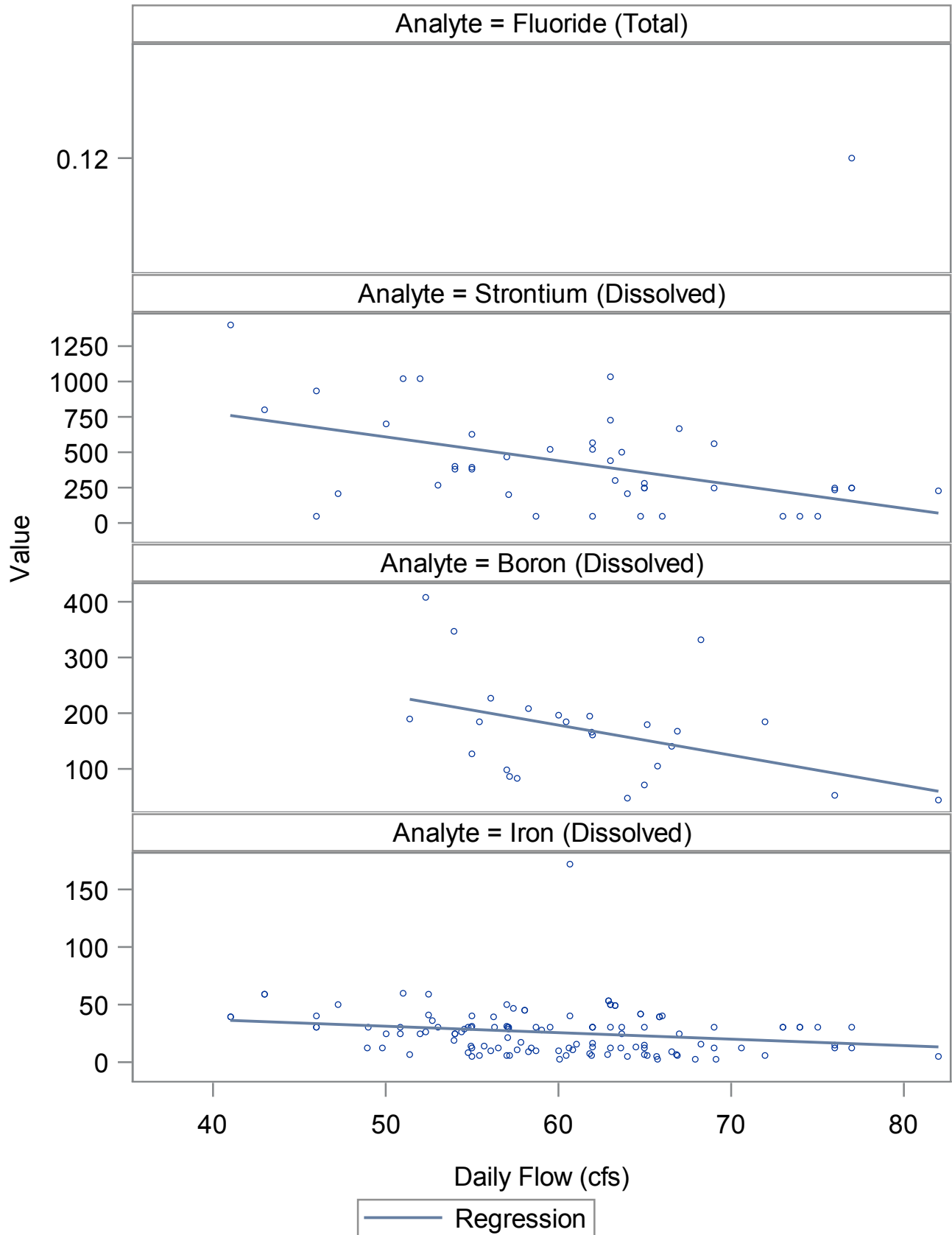
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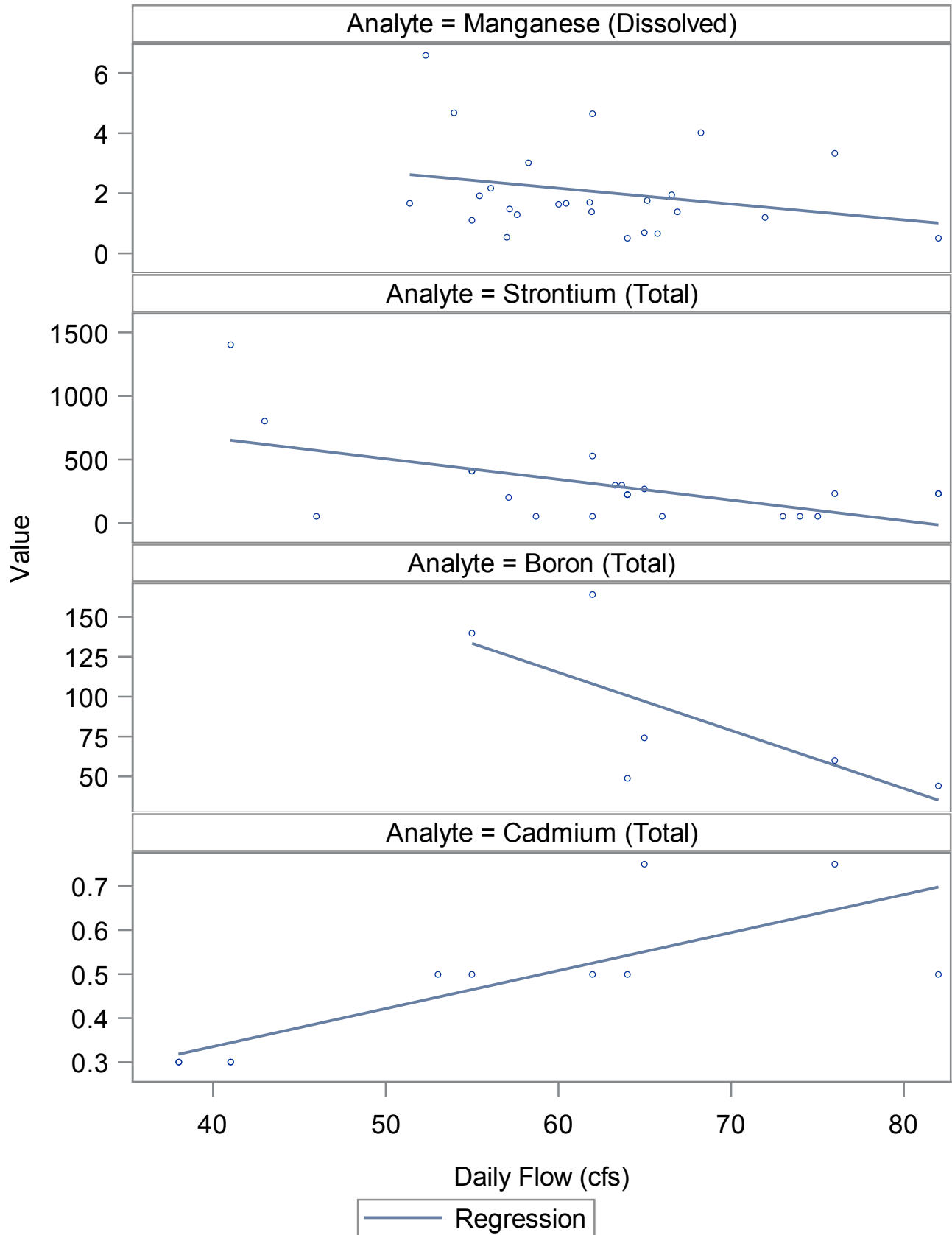
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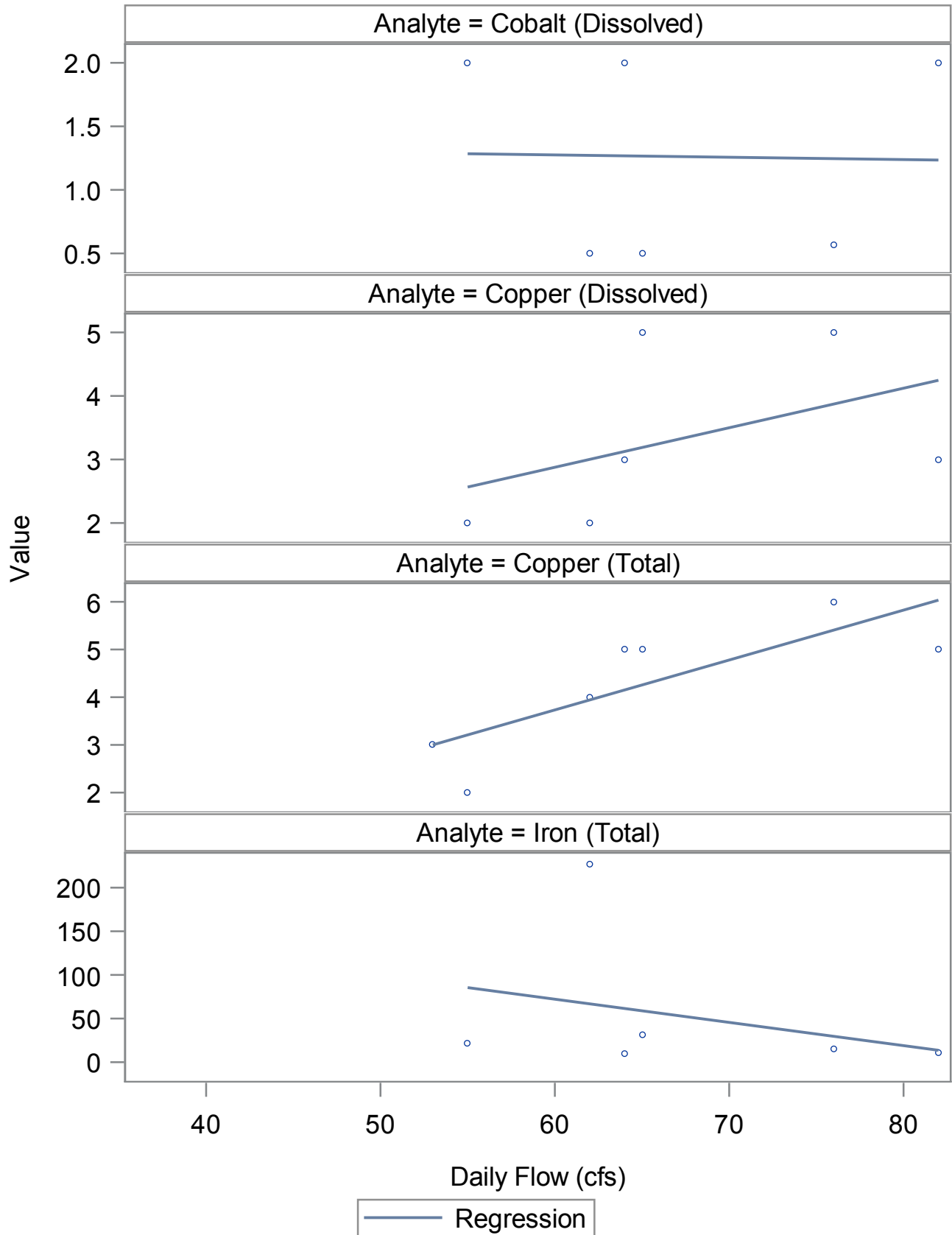
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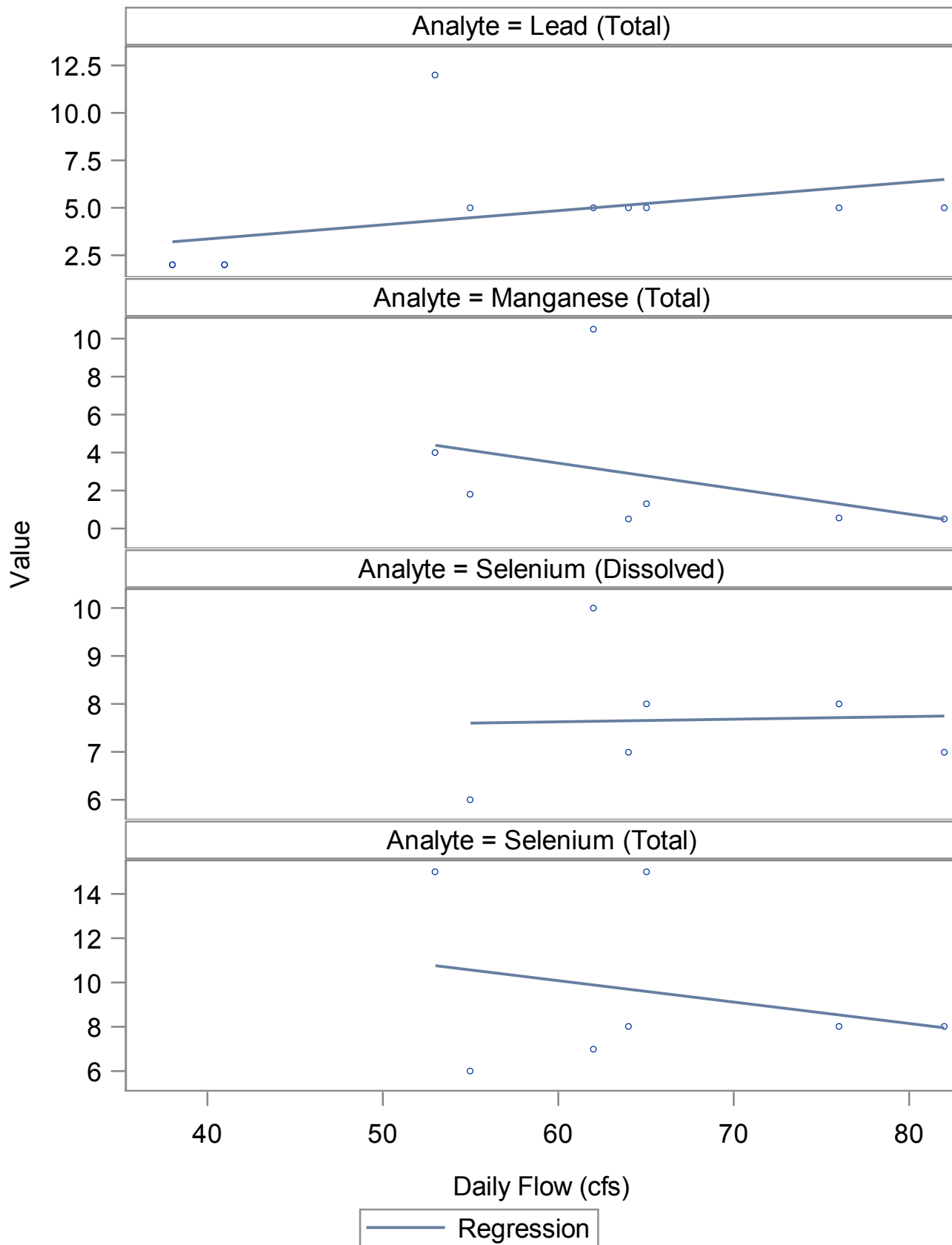
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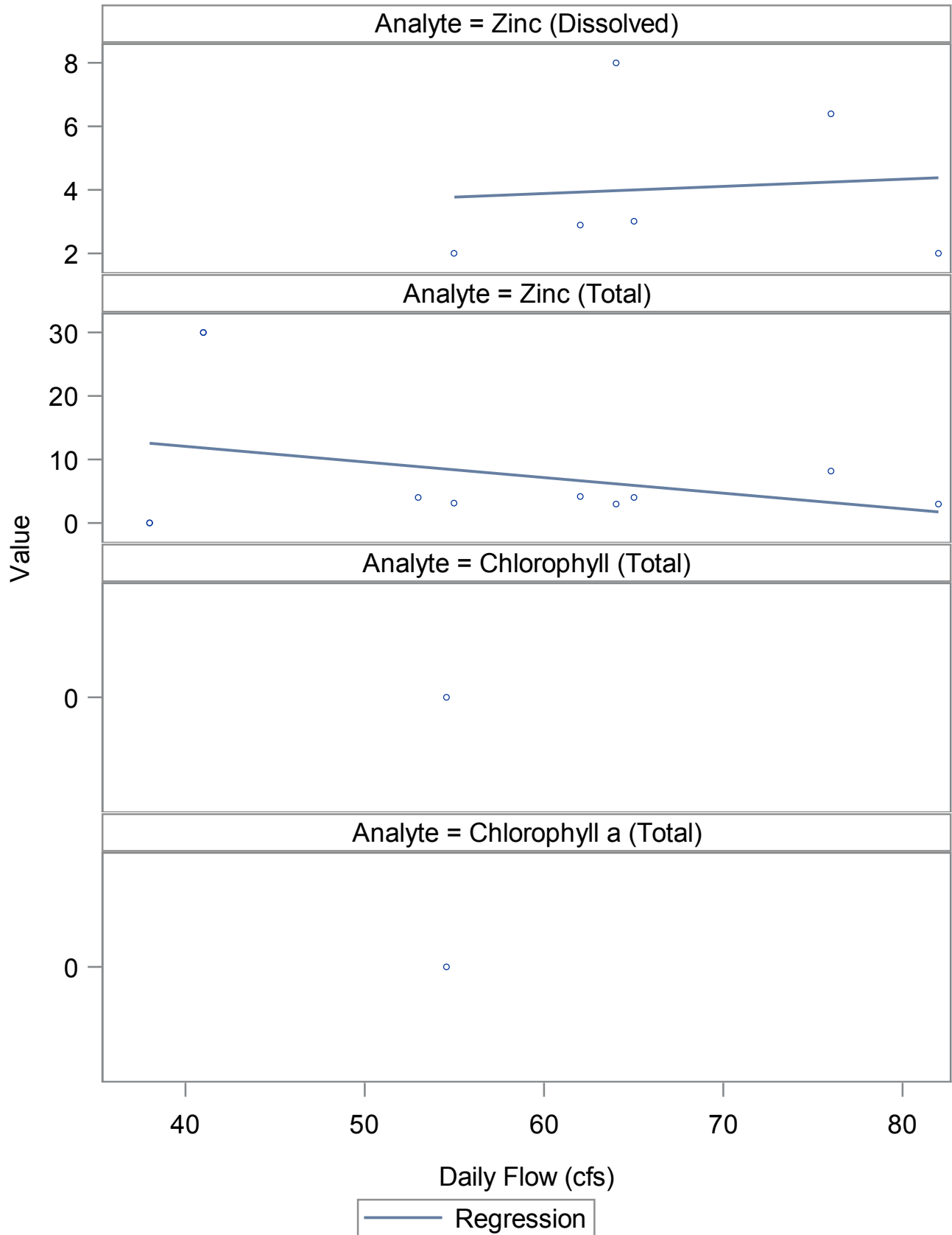
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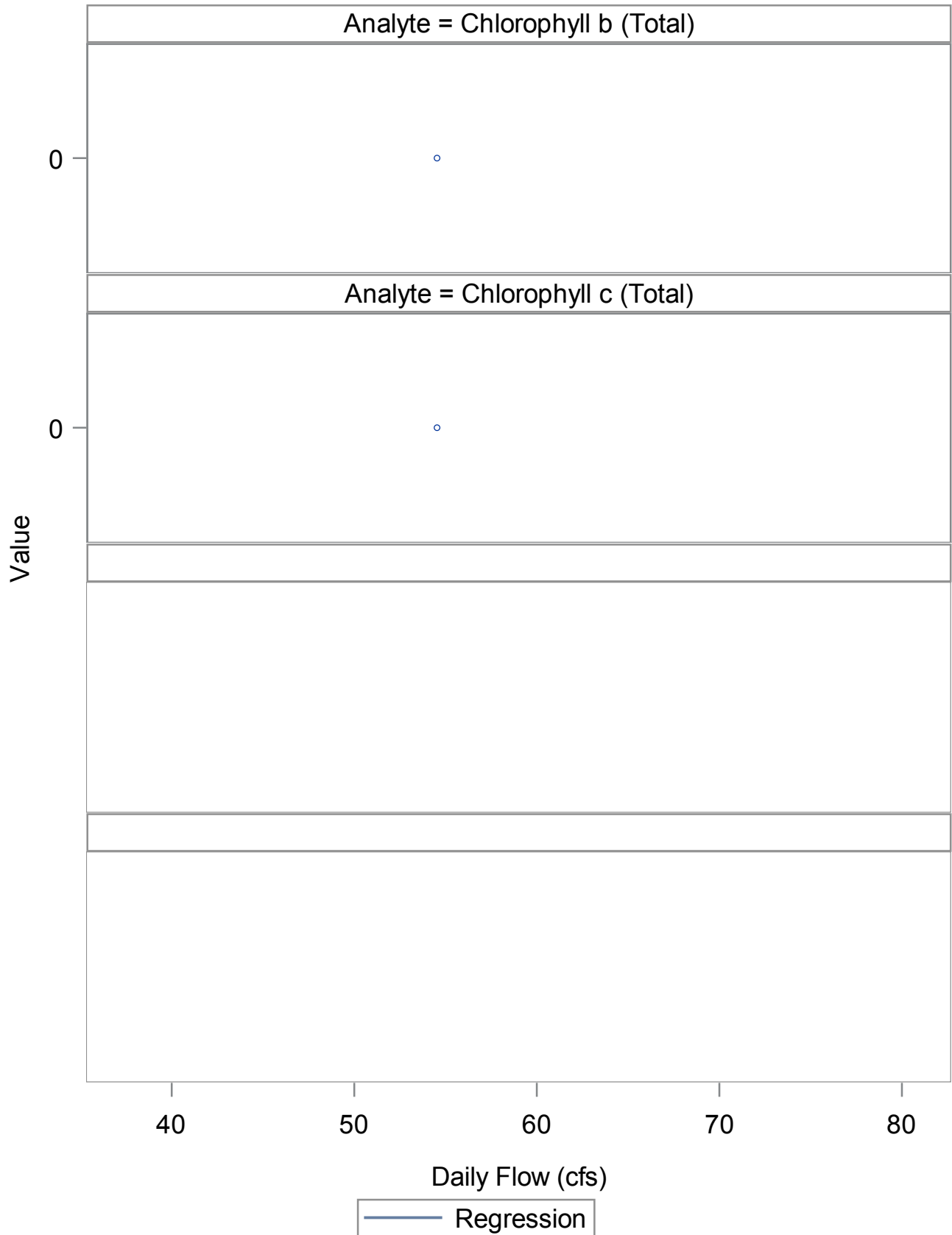
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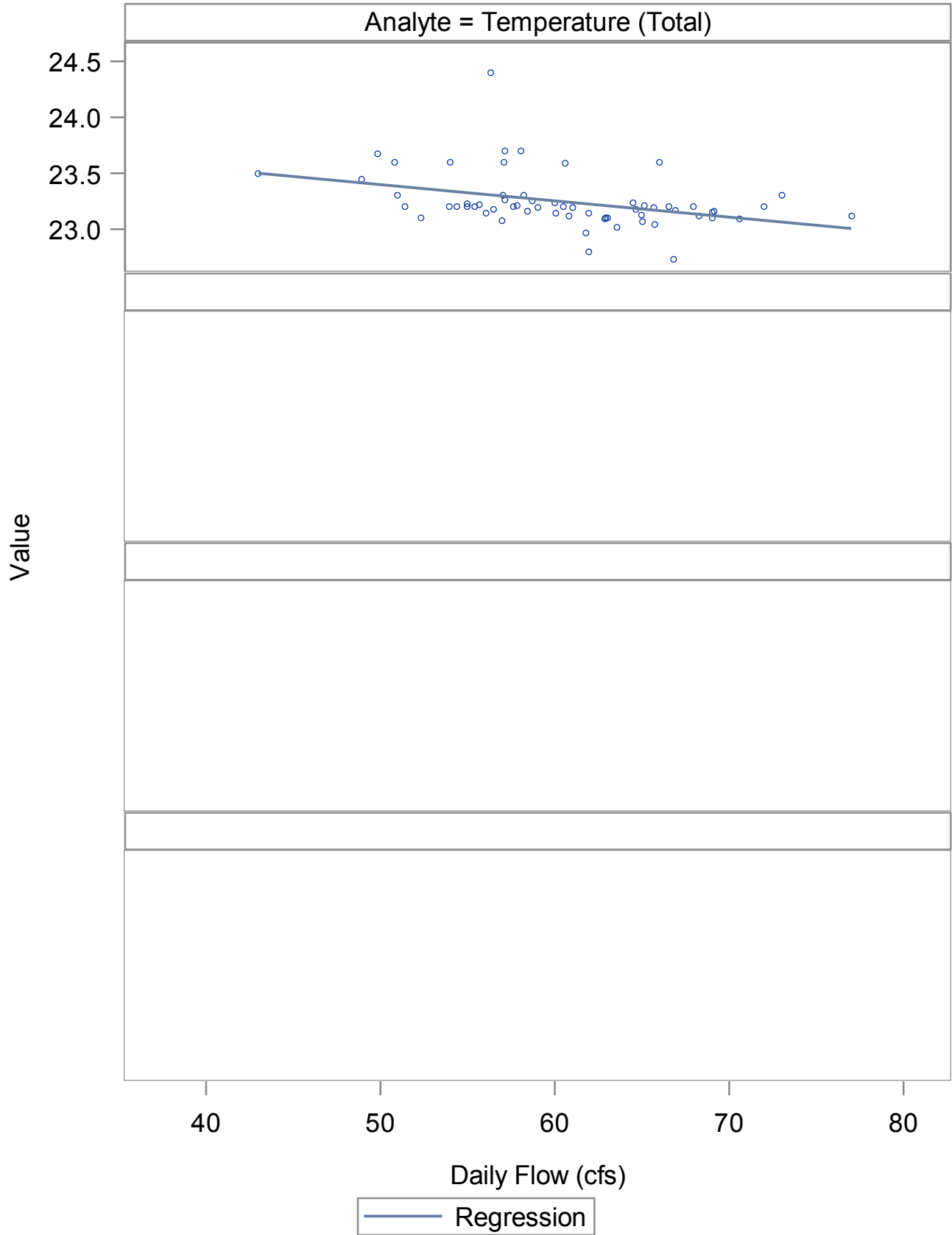
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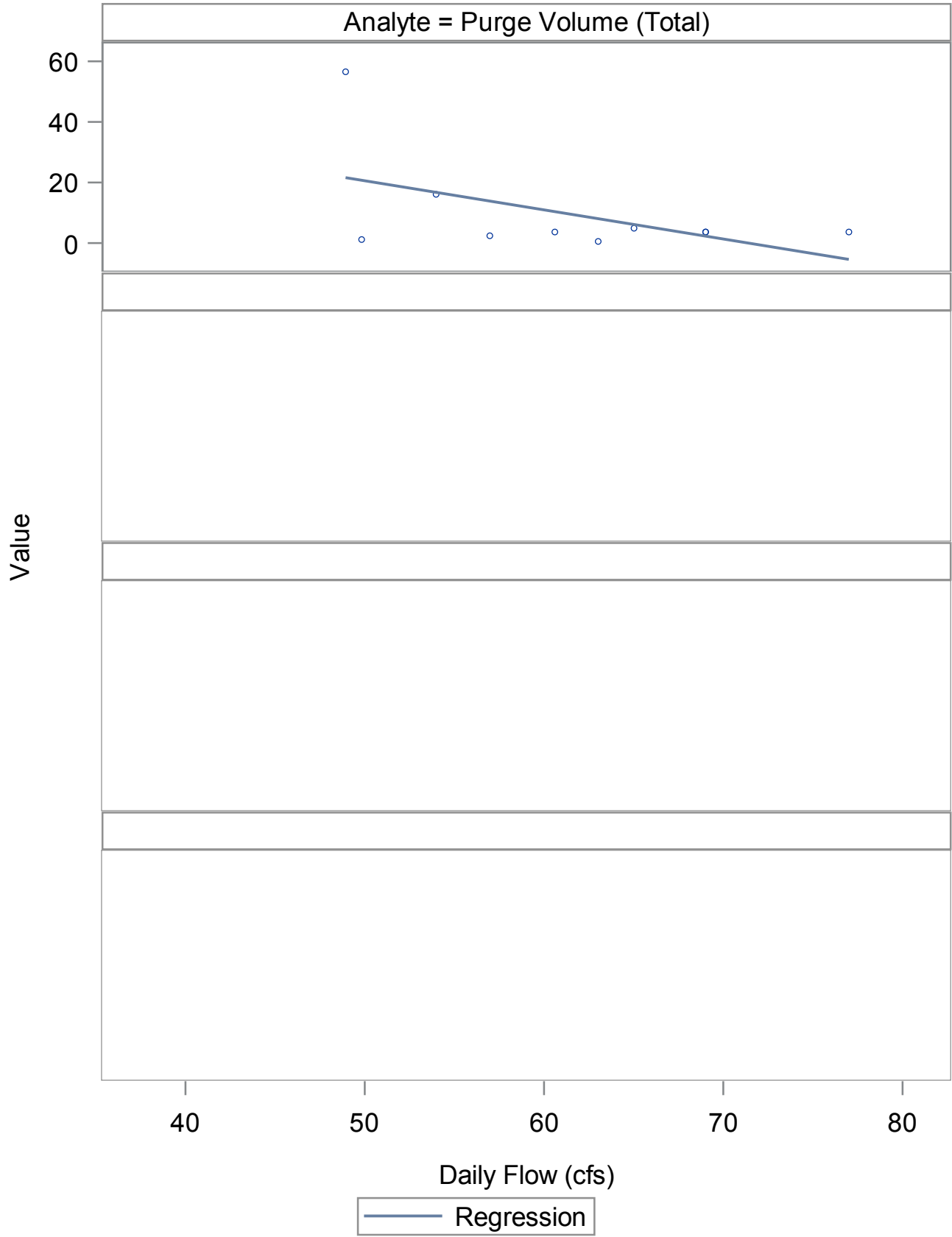
All Data Against Daily Flows

Source=P-889 Station=CRAB CREEK SPRING Units=Deg. C



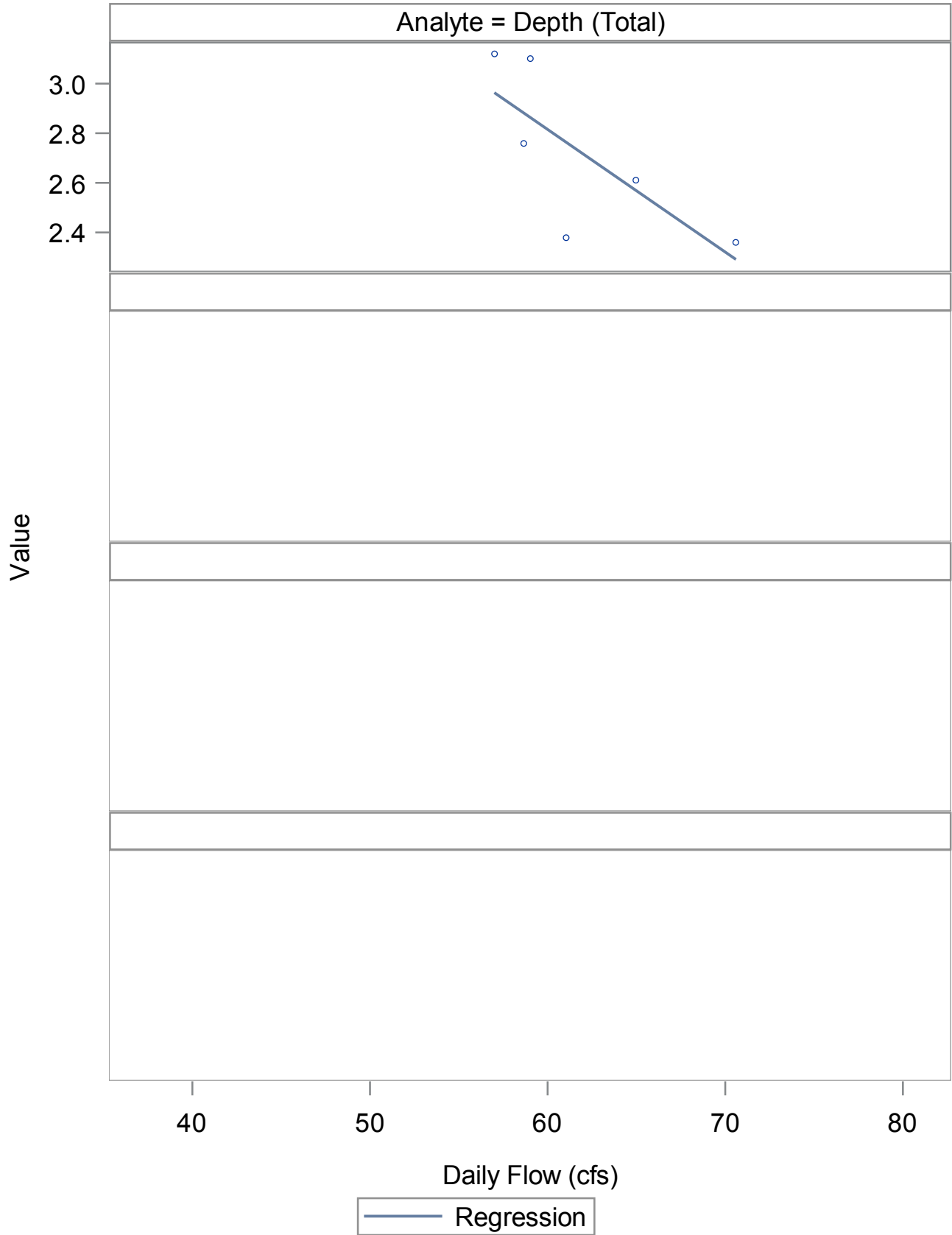
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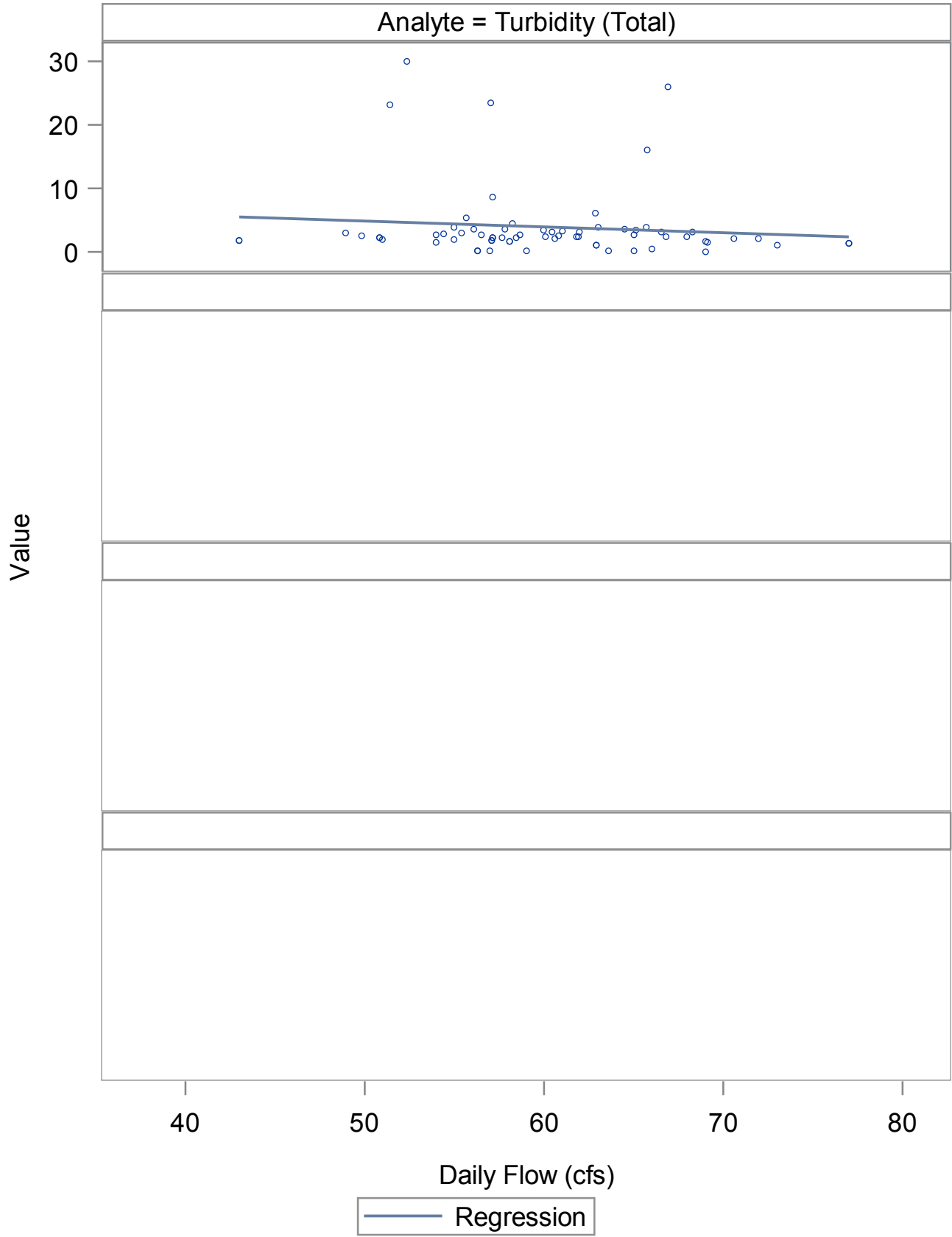
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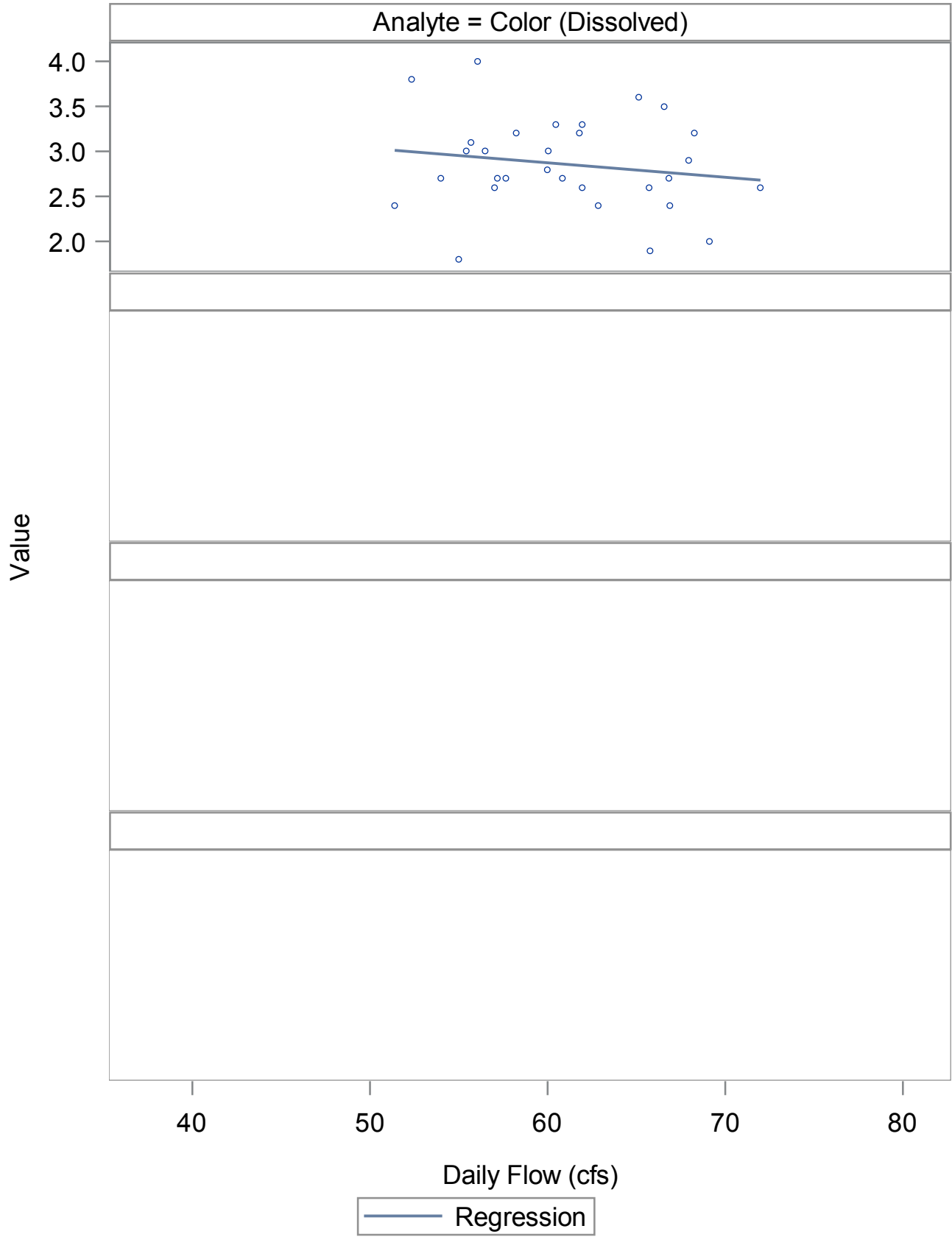
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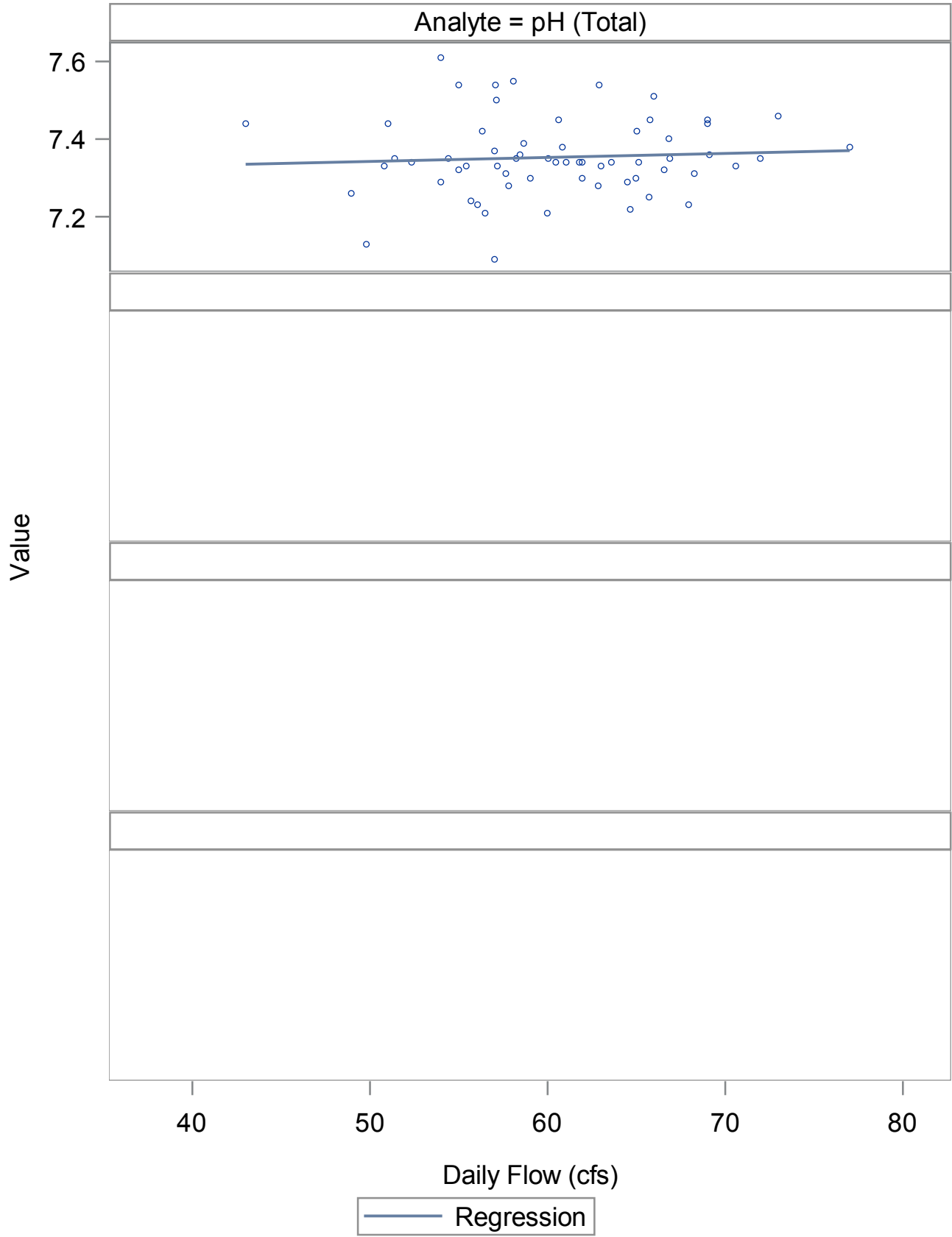
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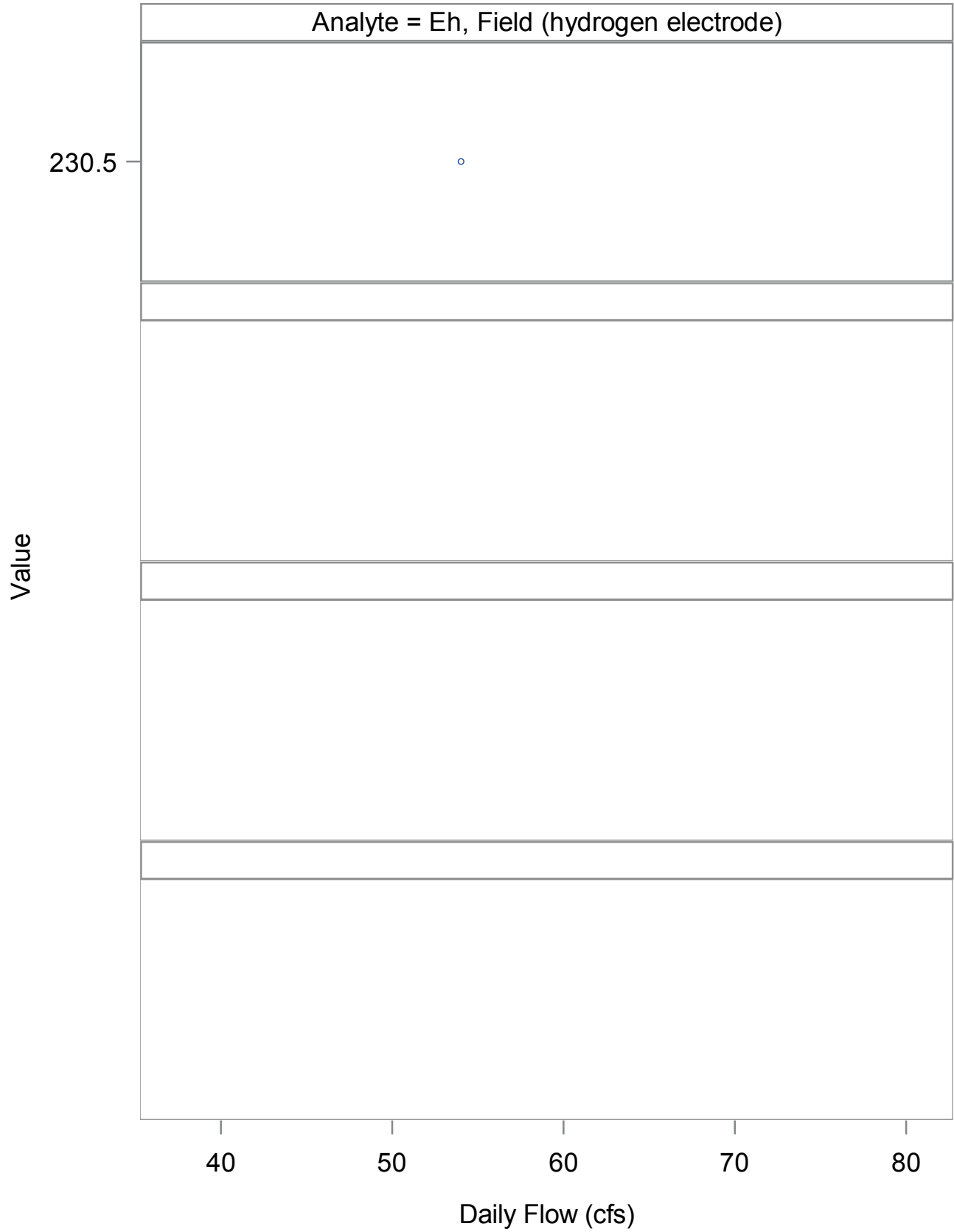
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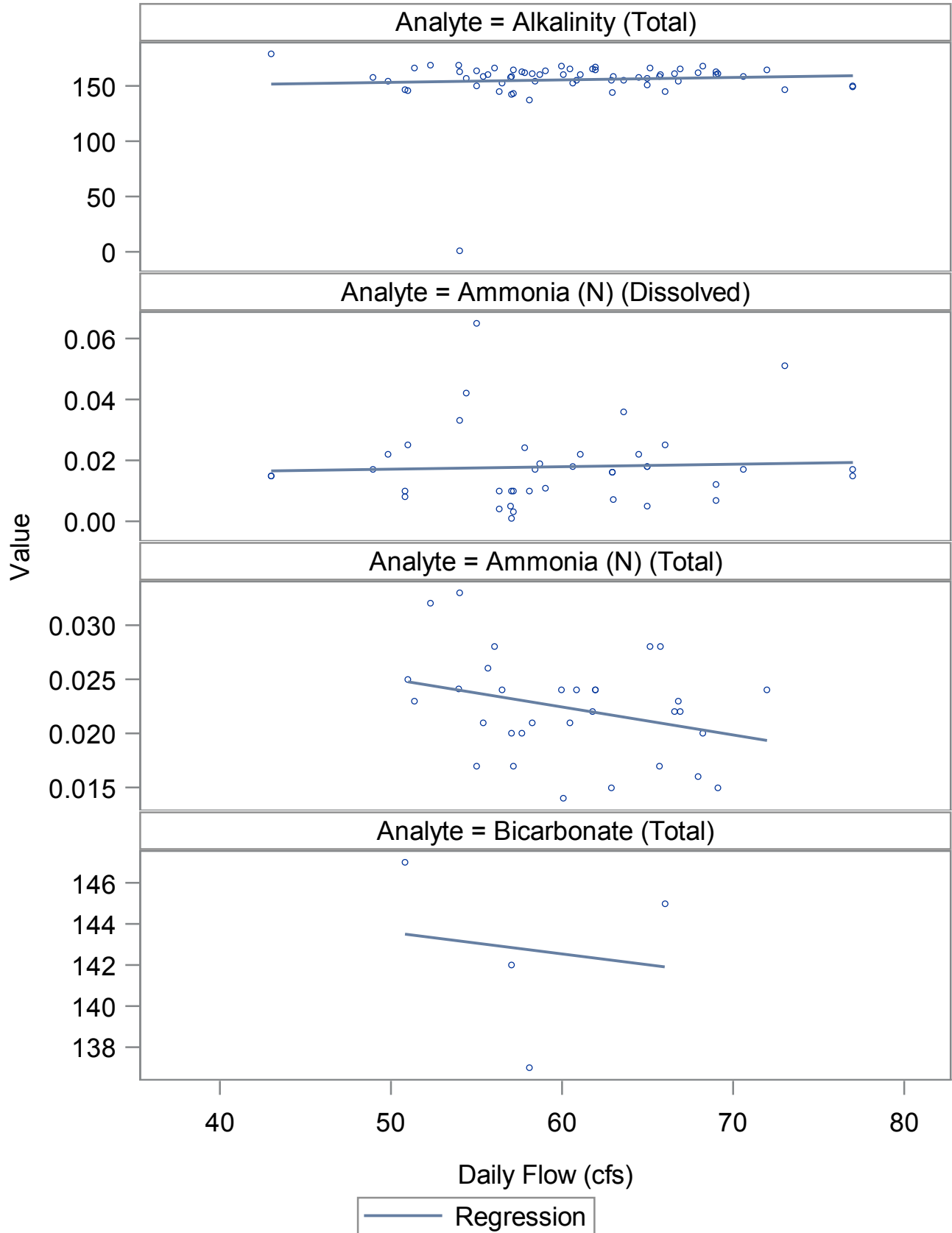
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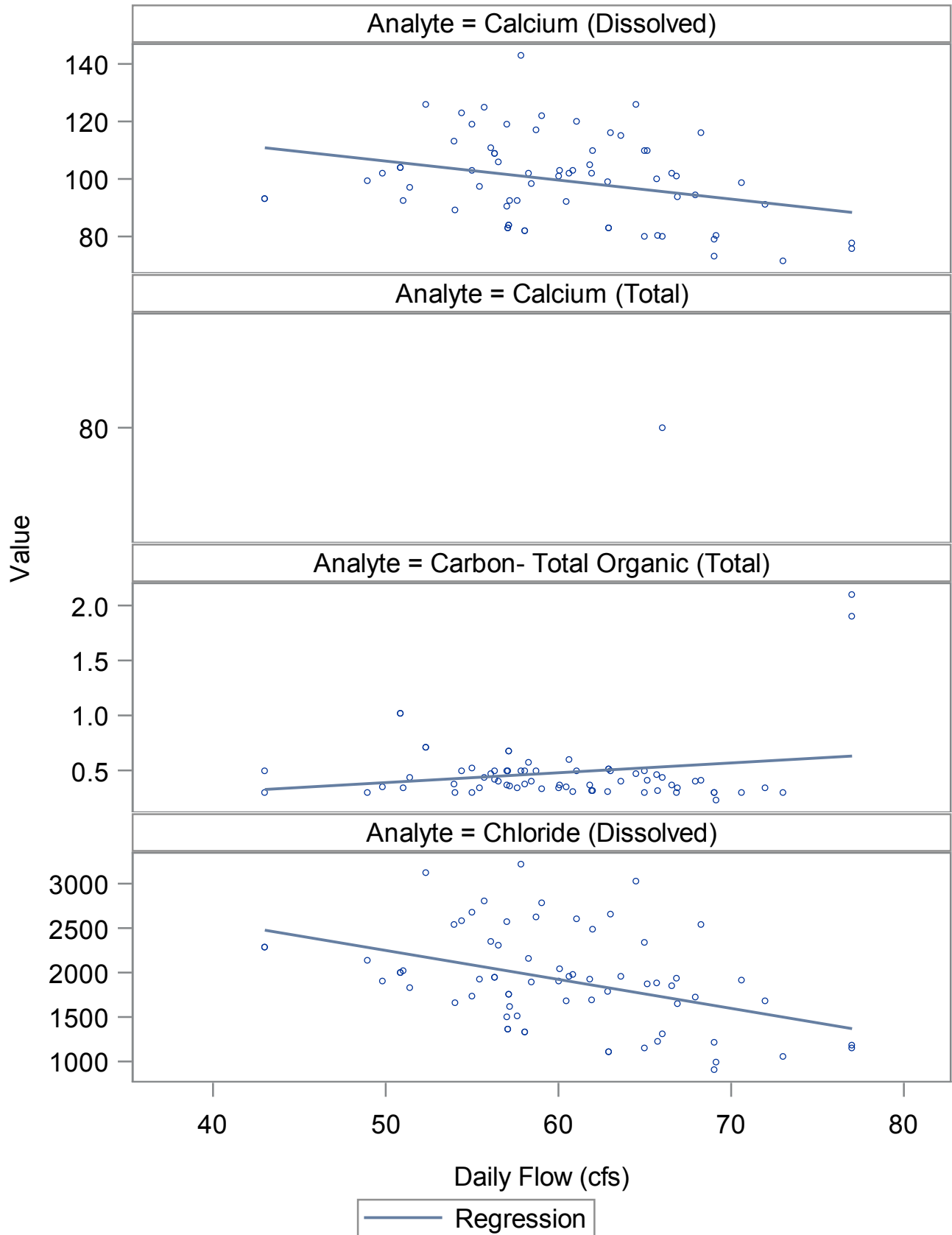
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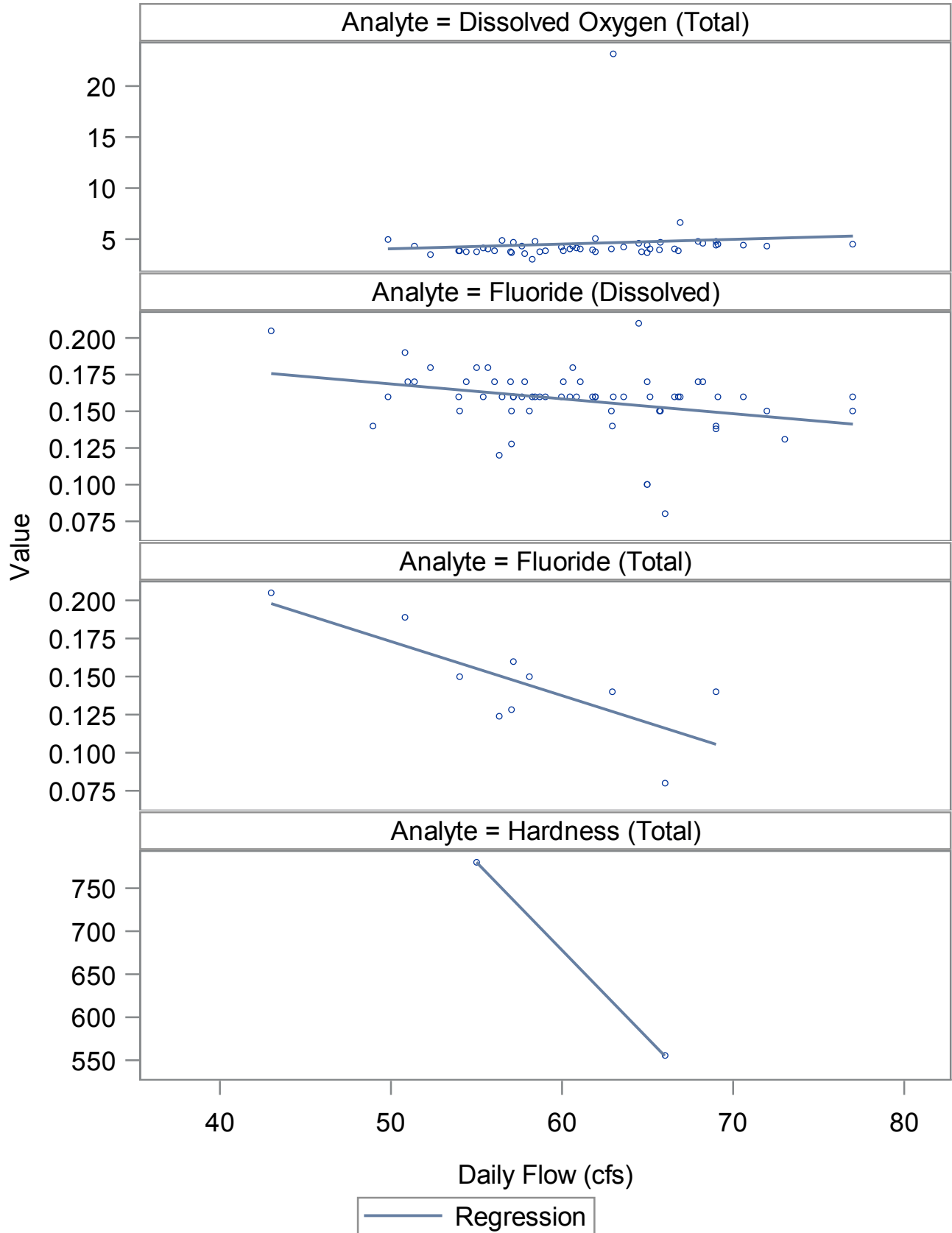
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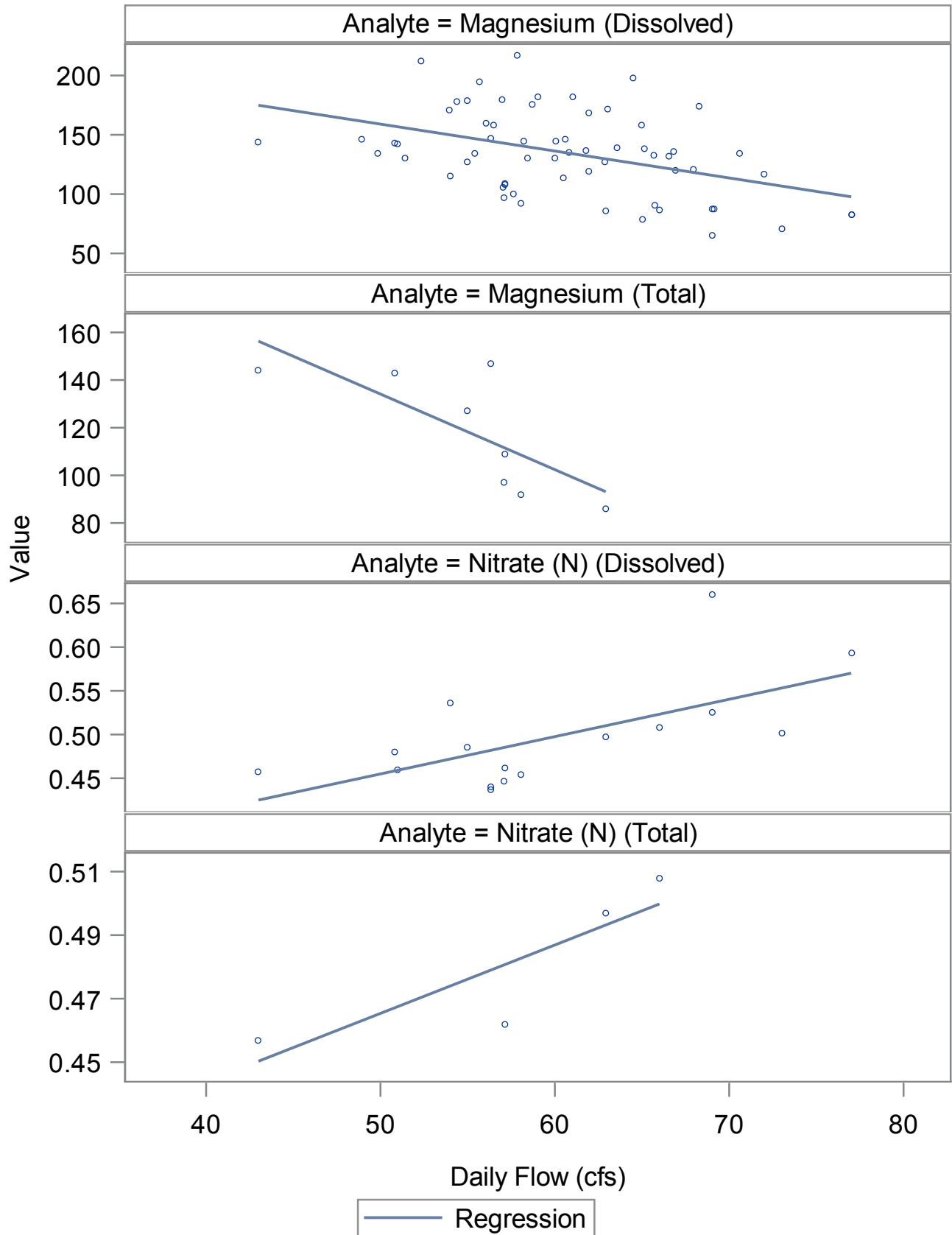
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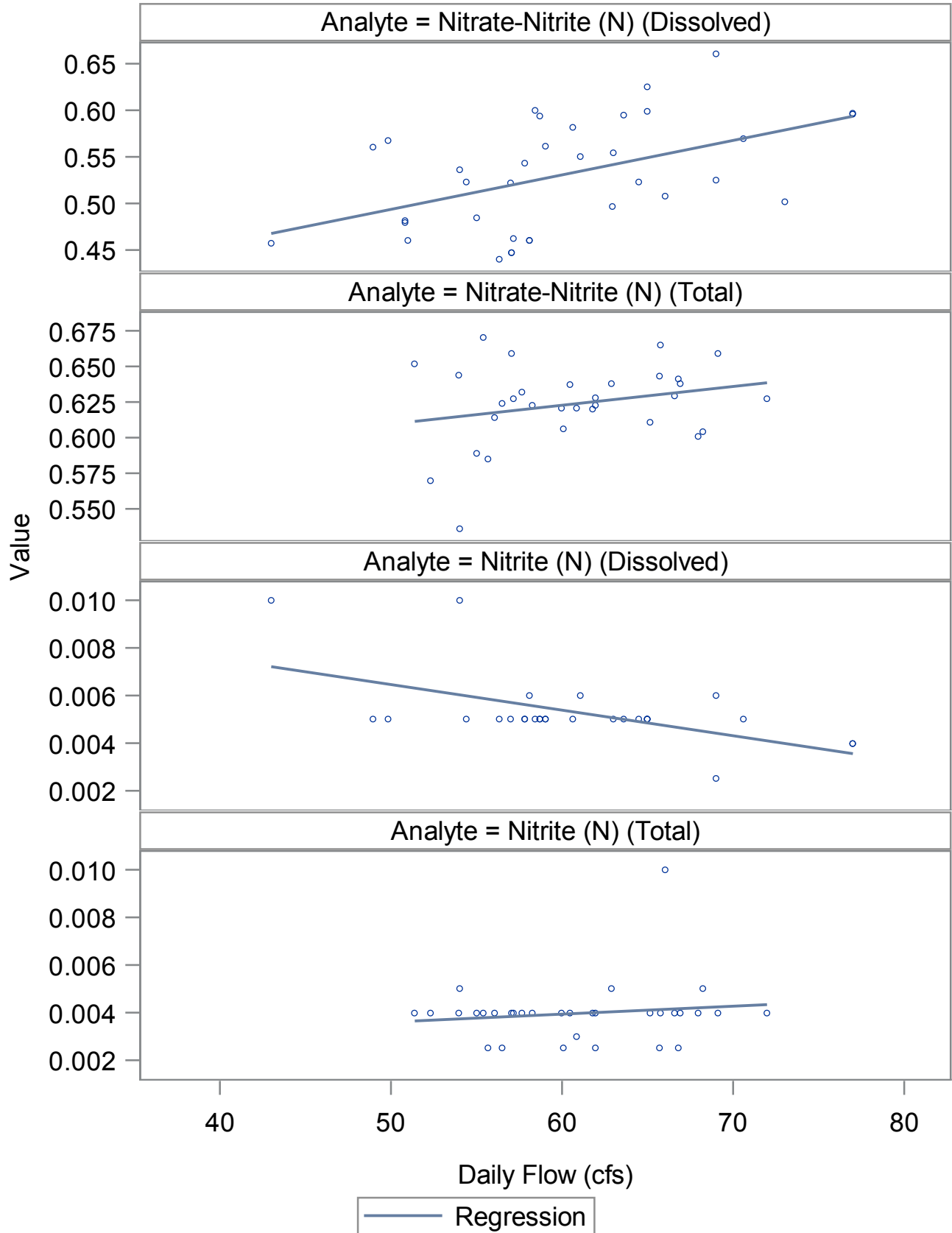
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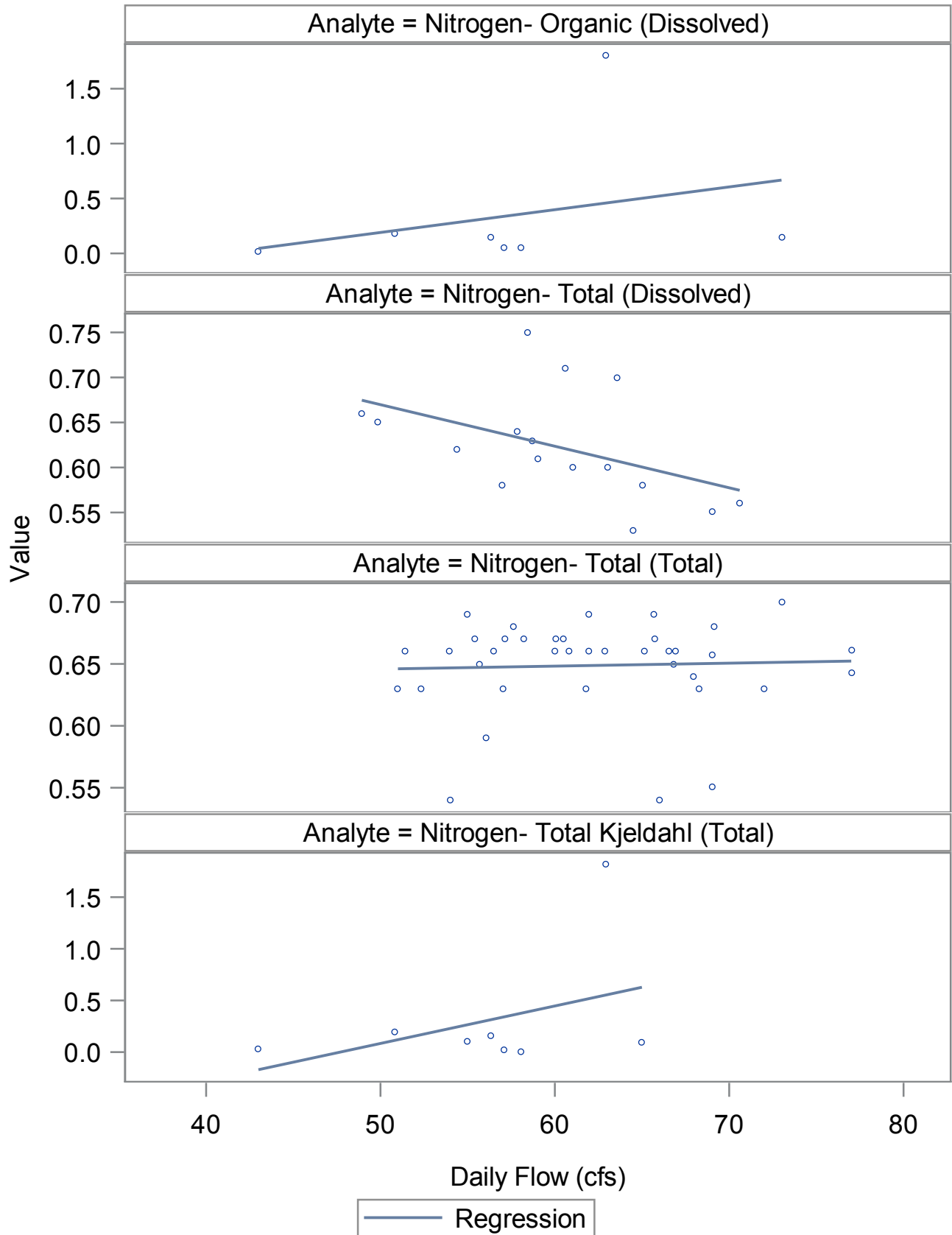
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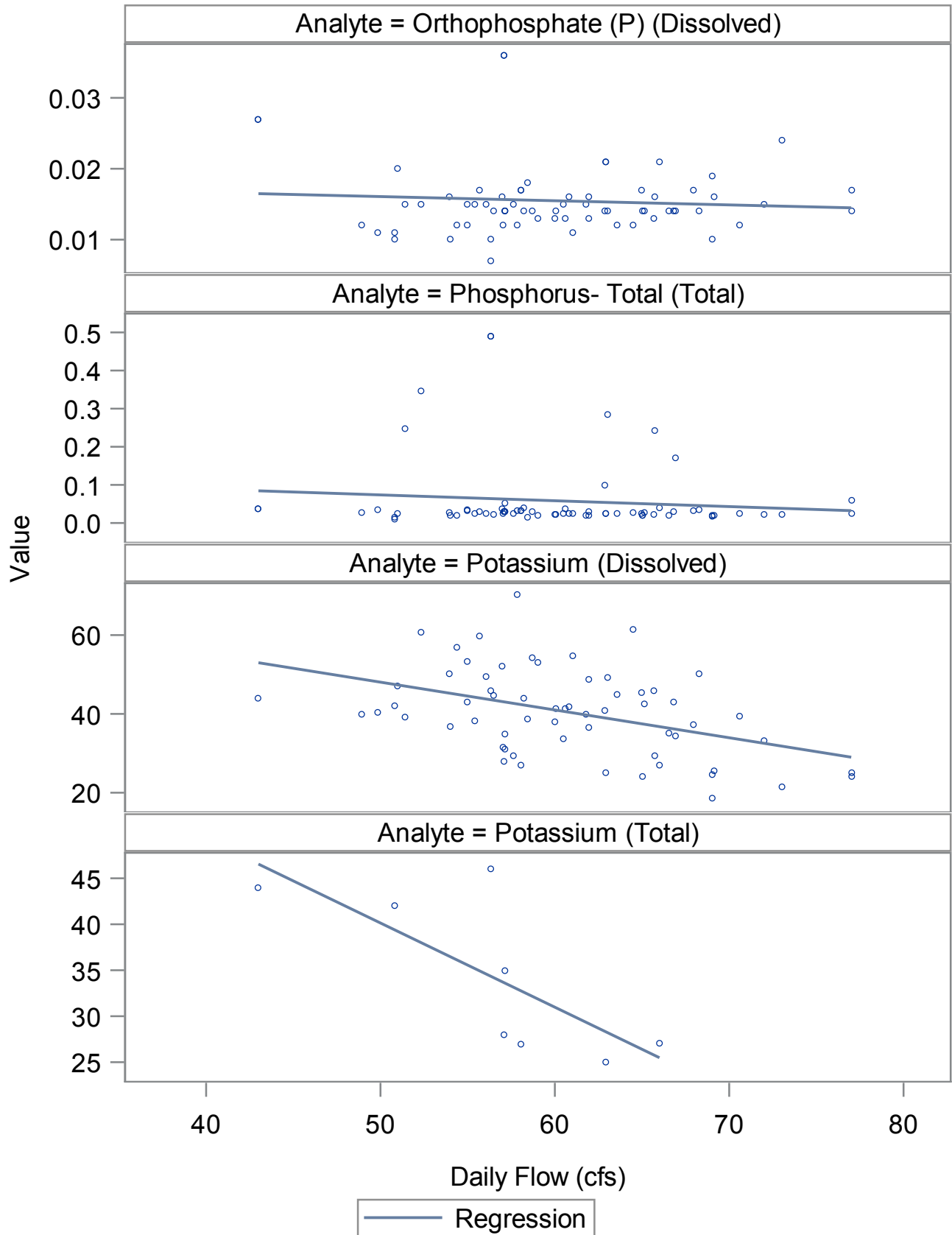
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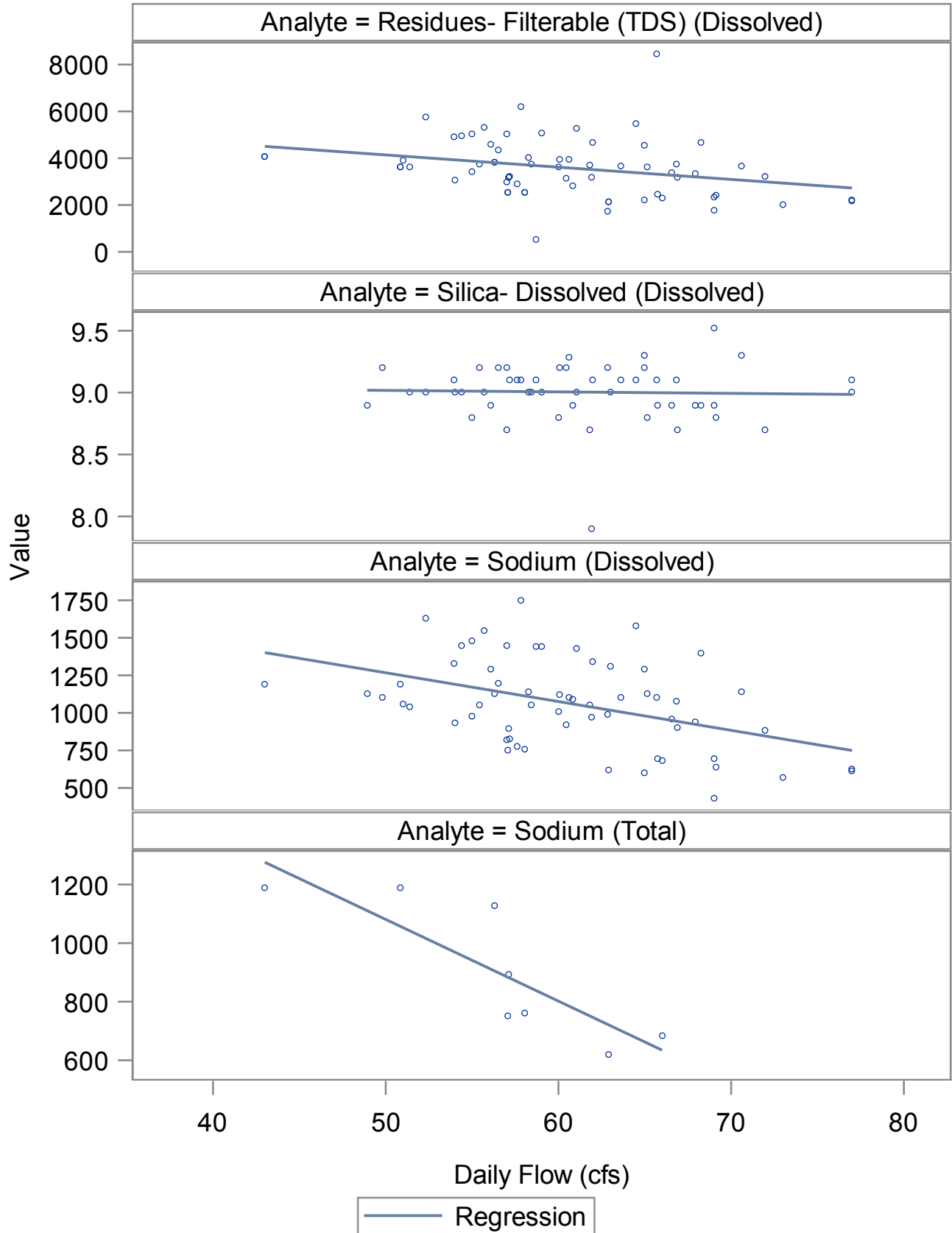
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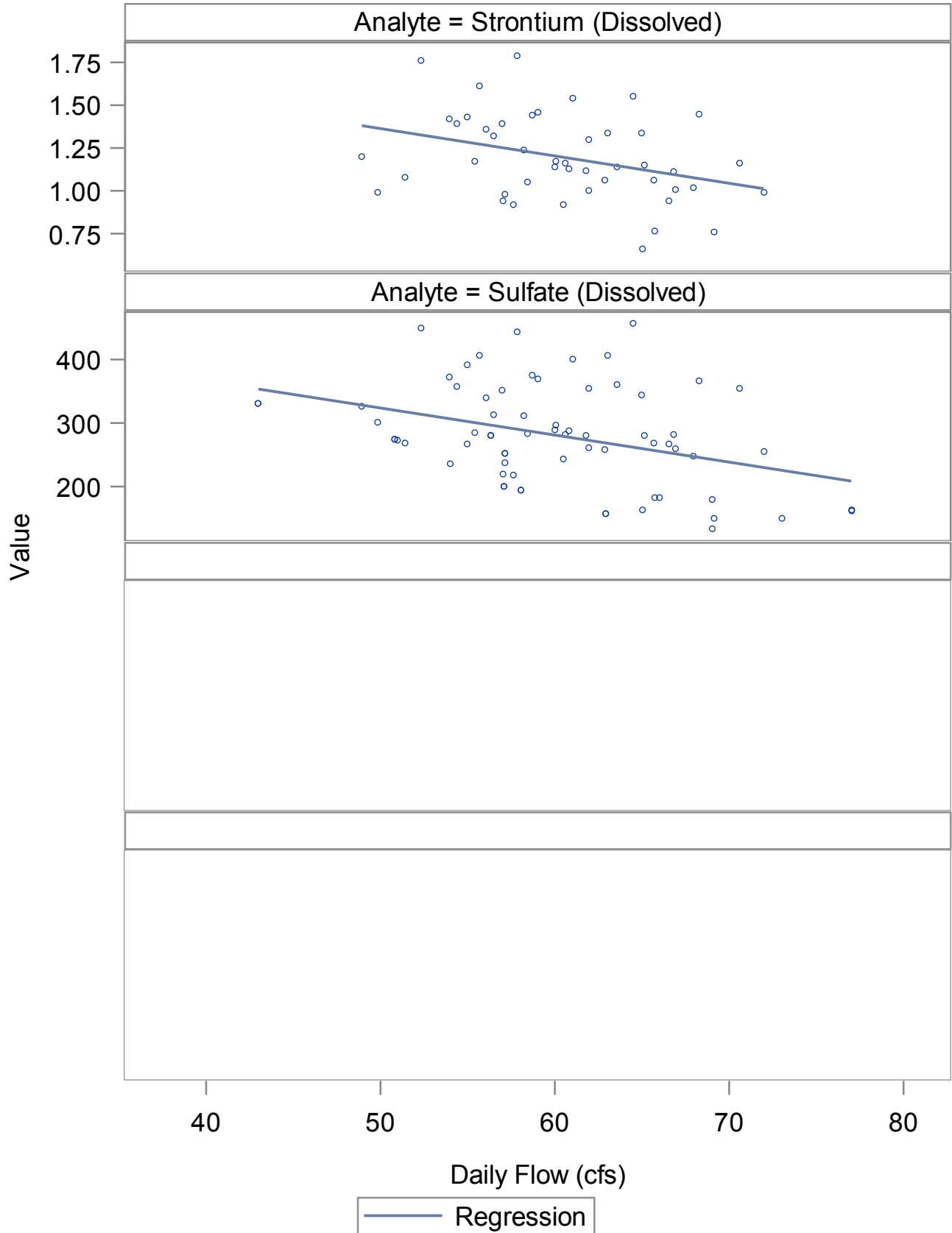
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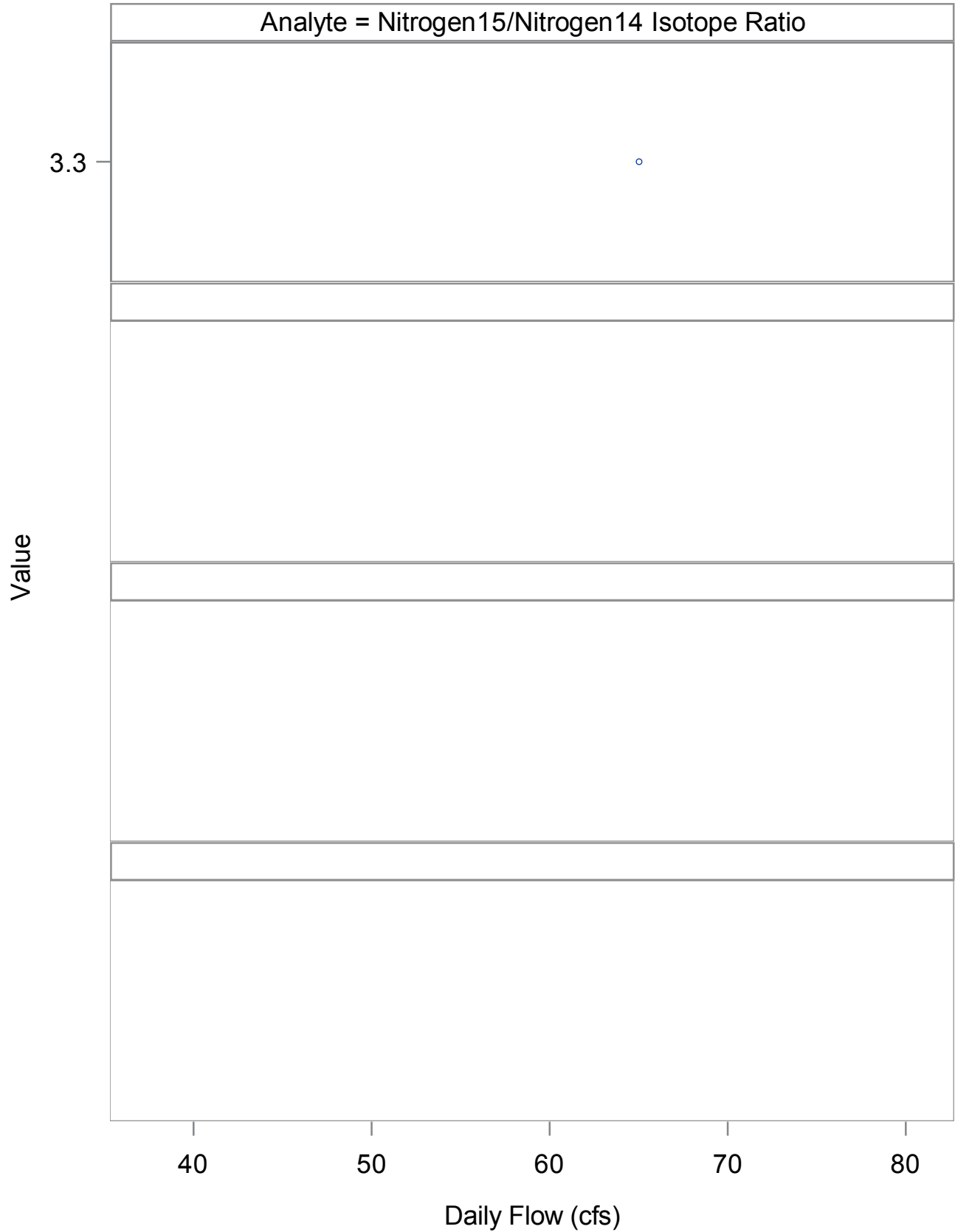
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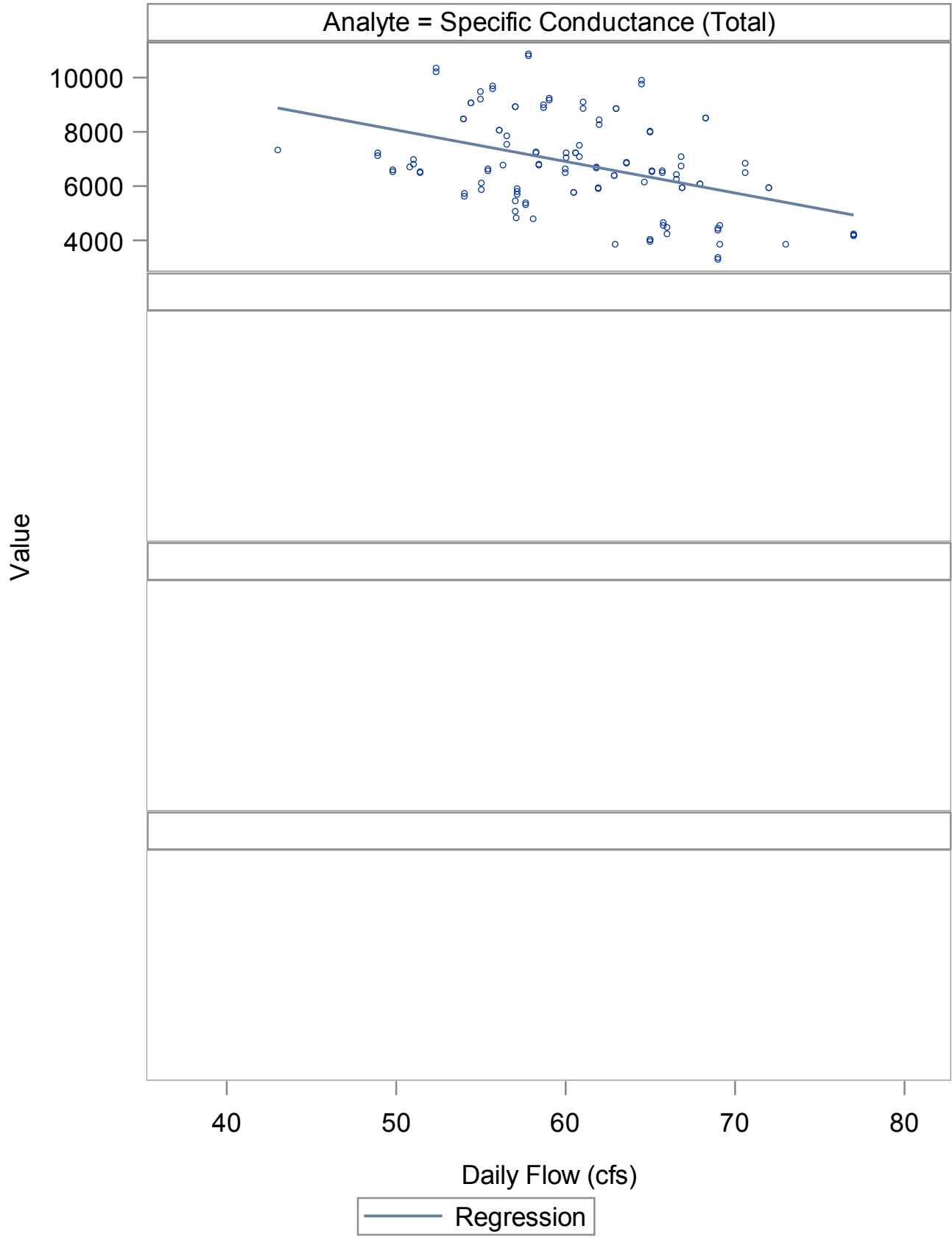
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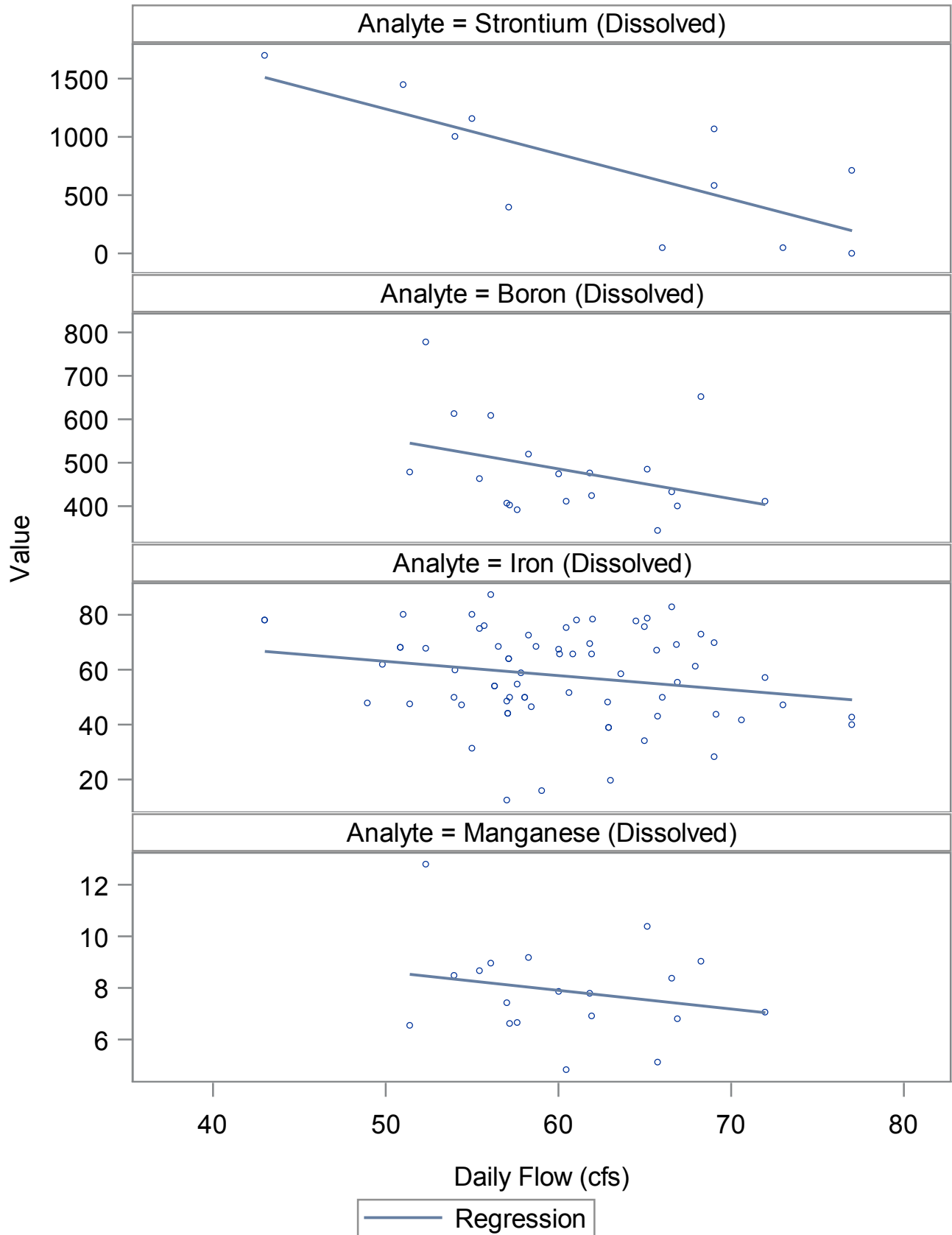
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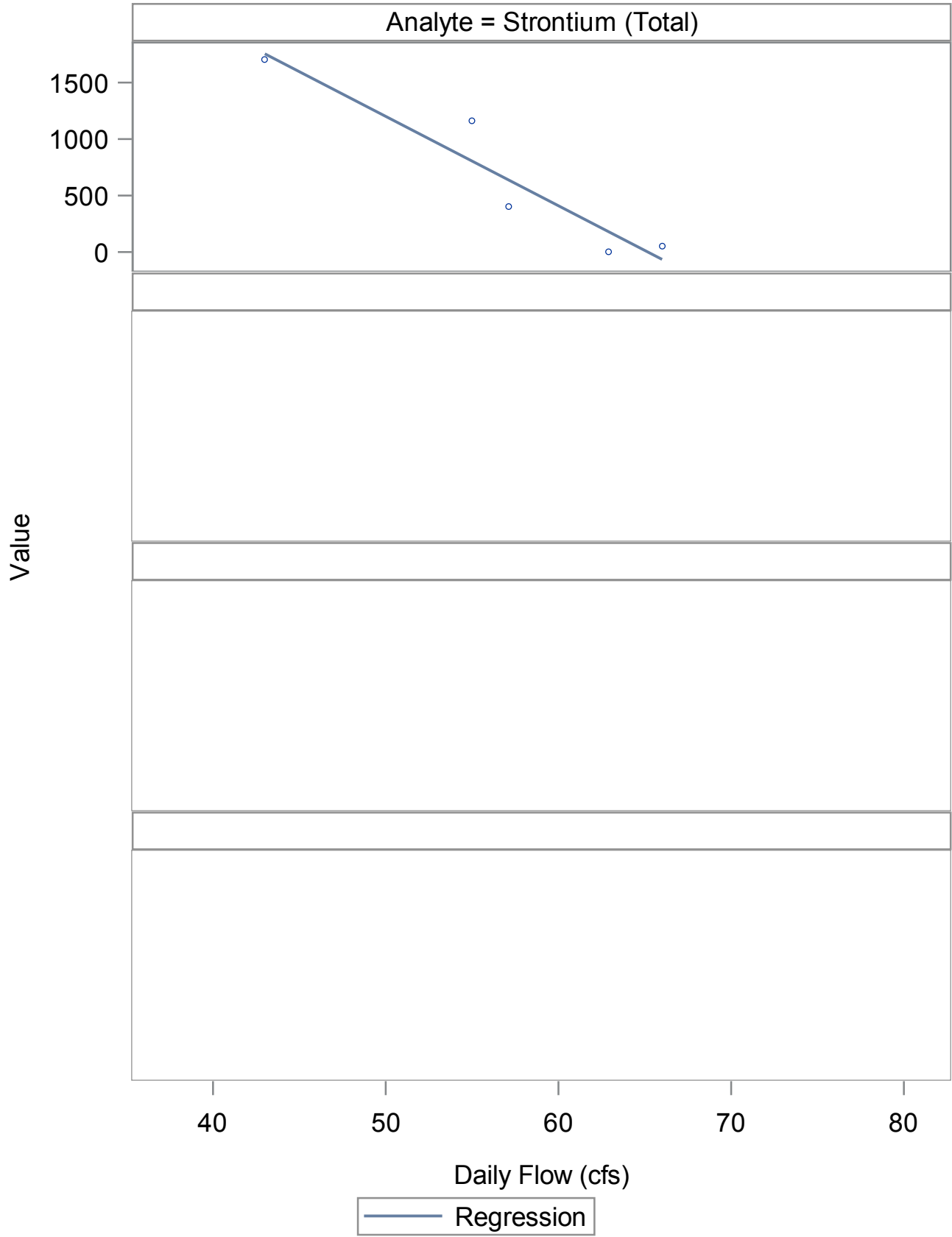
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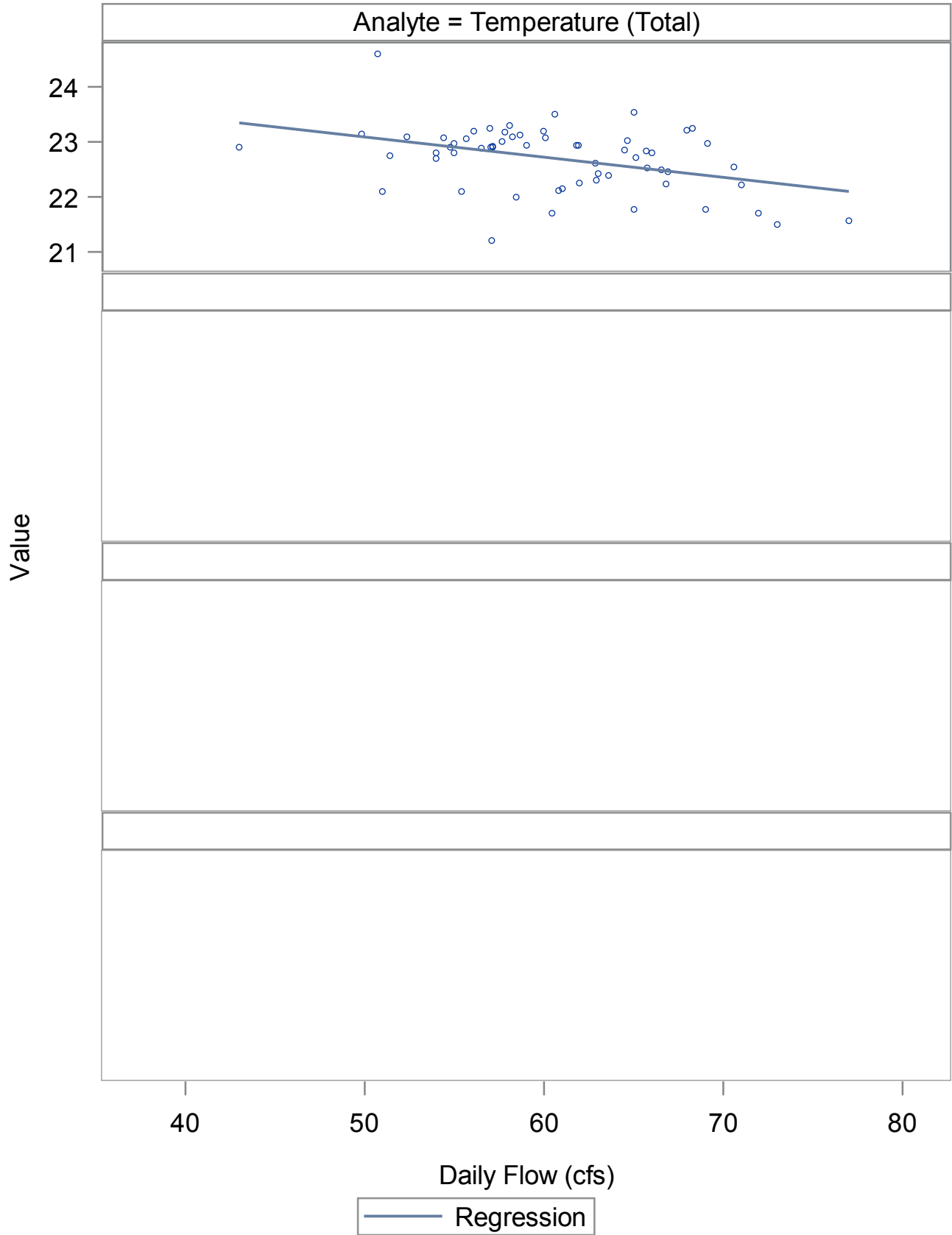
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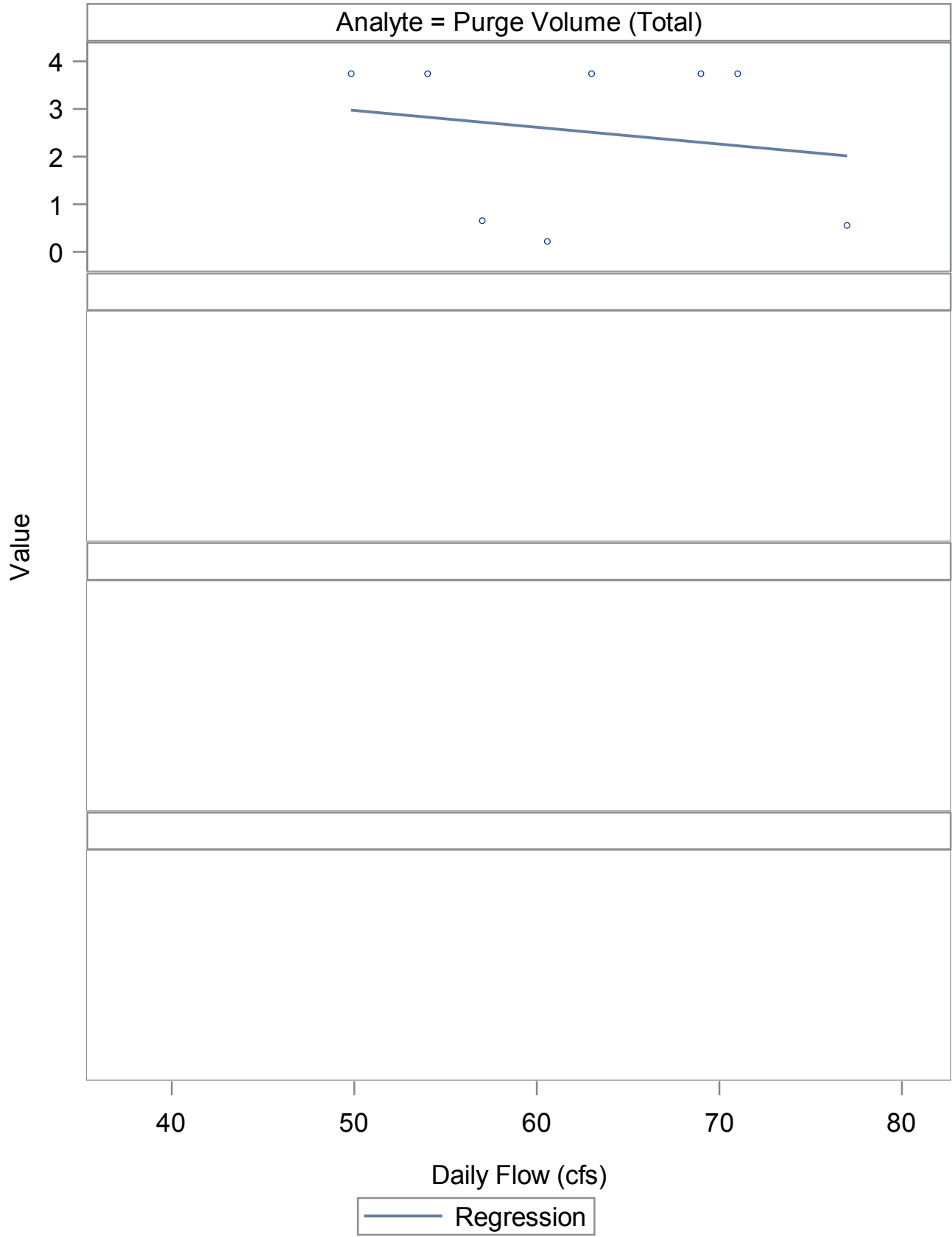
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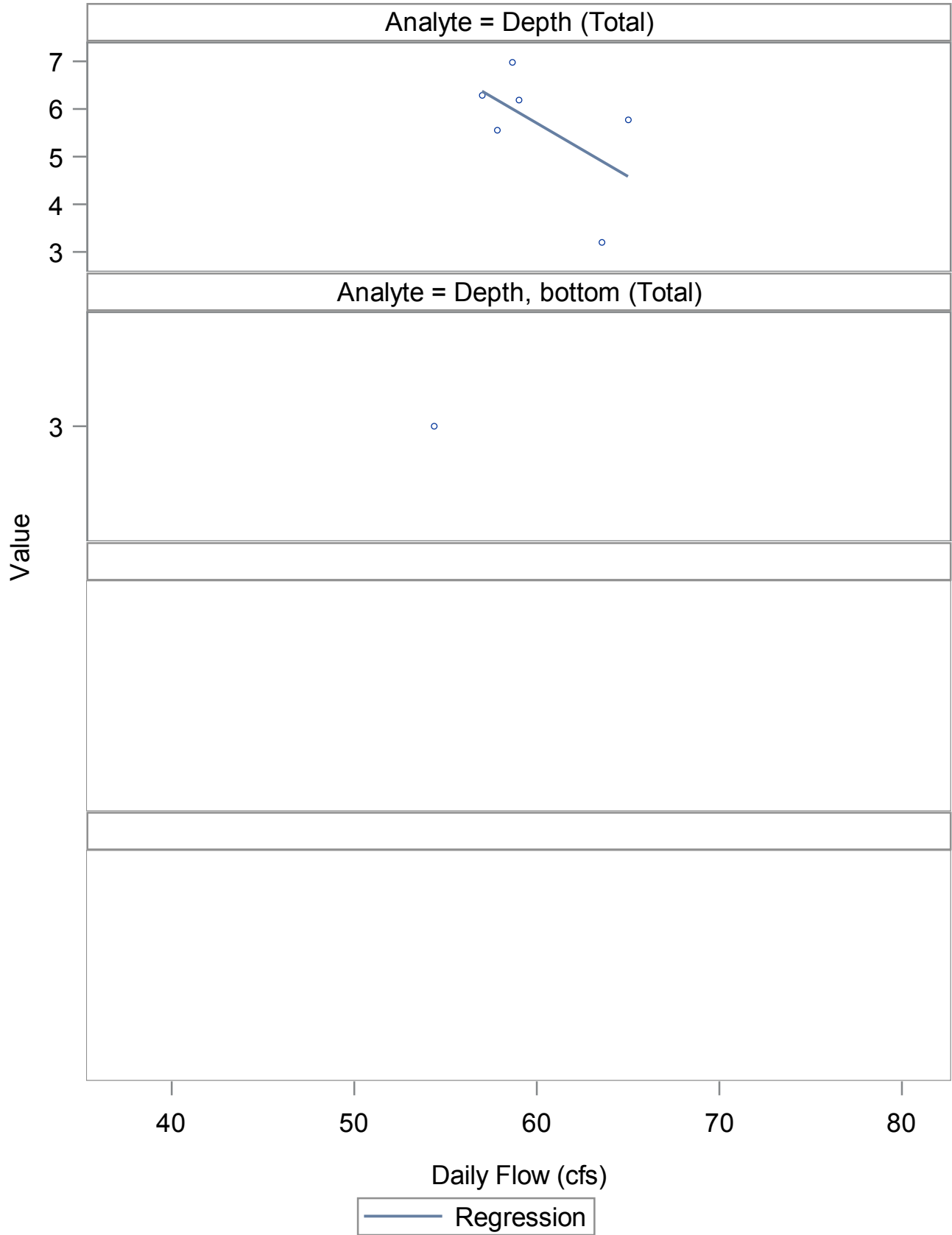
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Source=P-889 Station=RUTH SPRING Units=Gallons



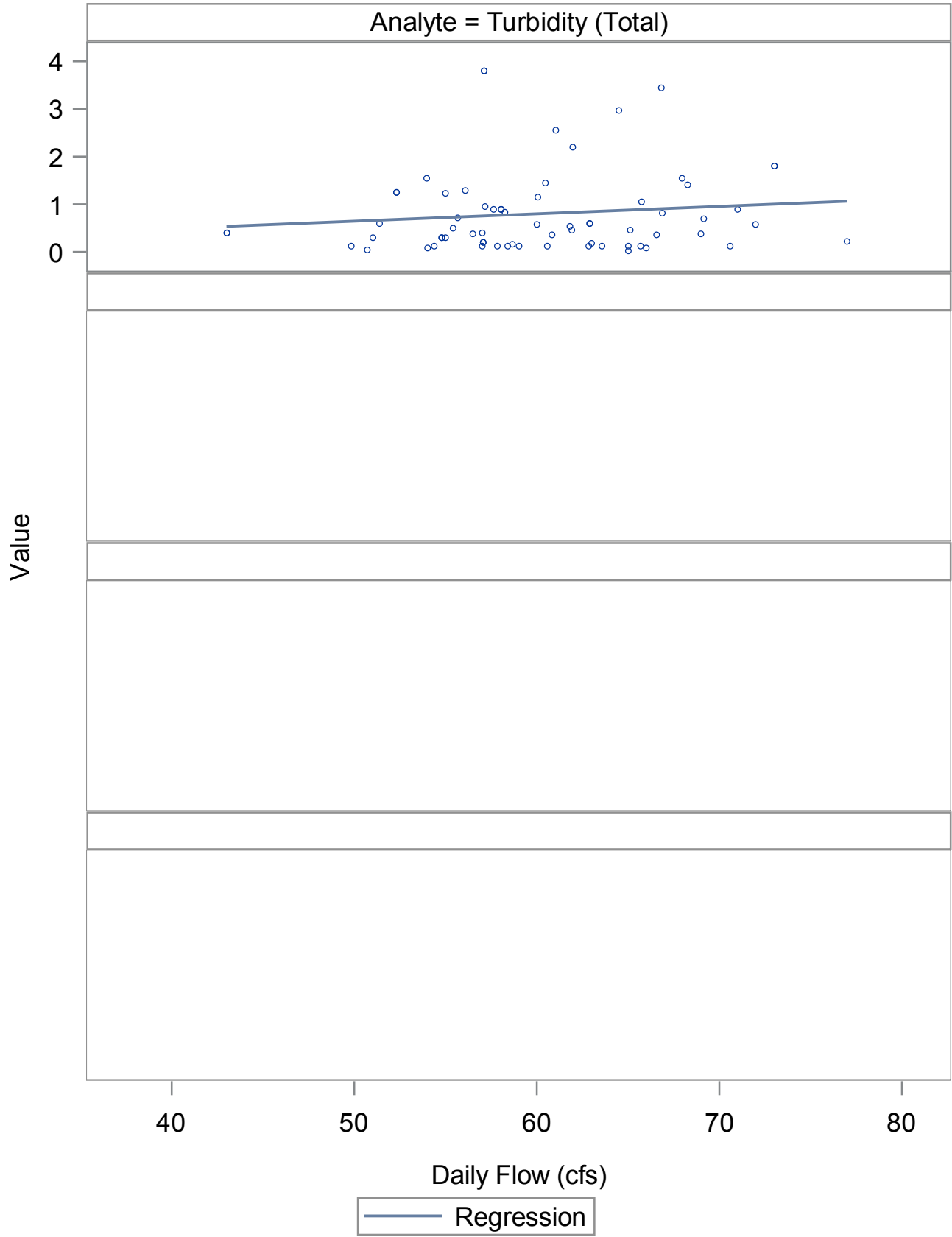
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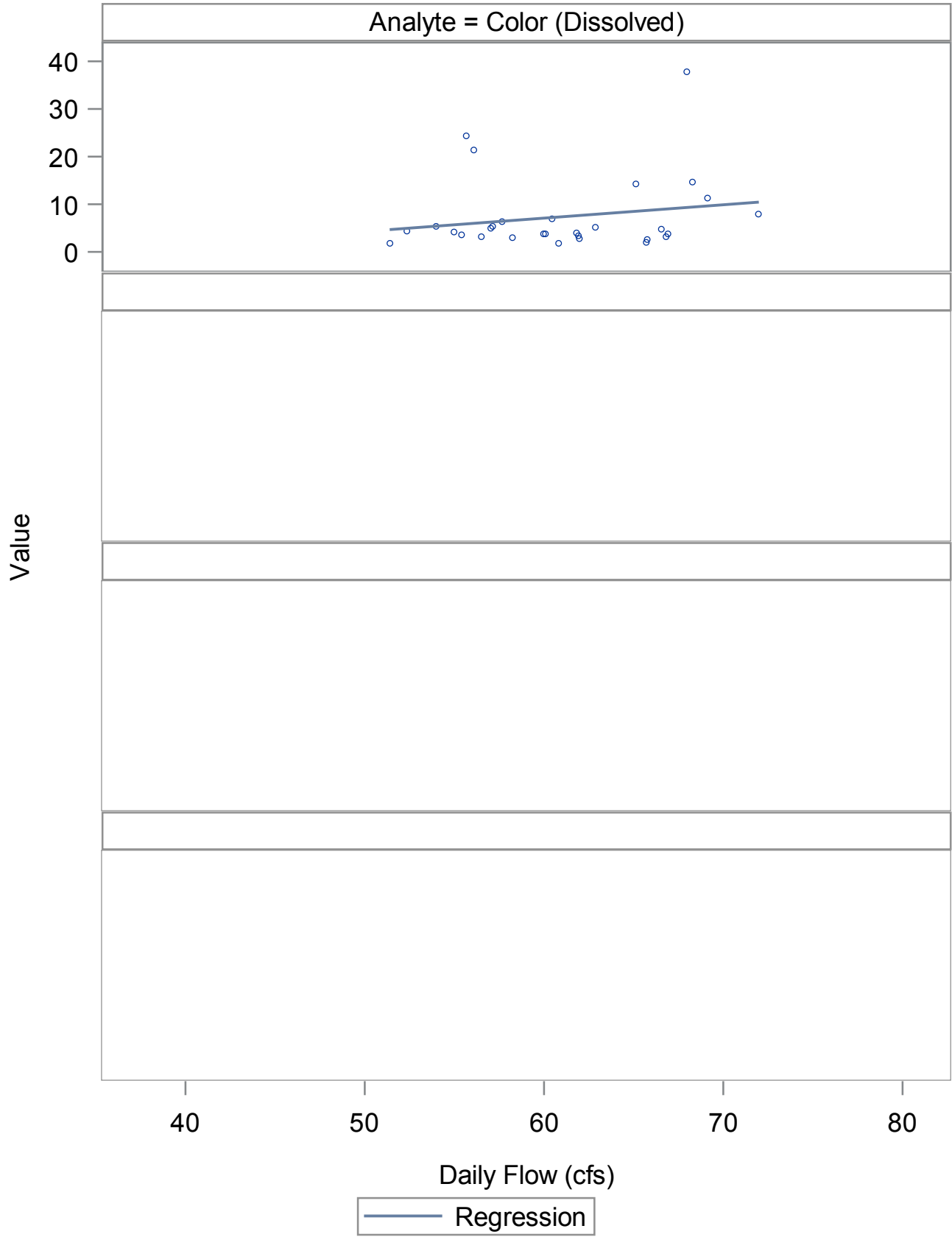
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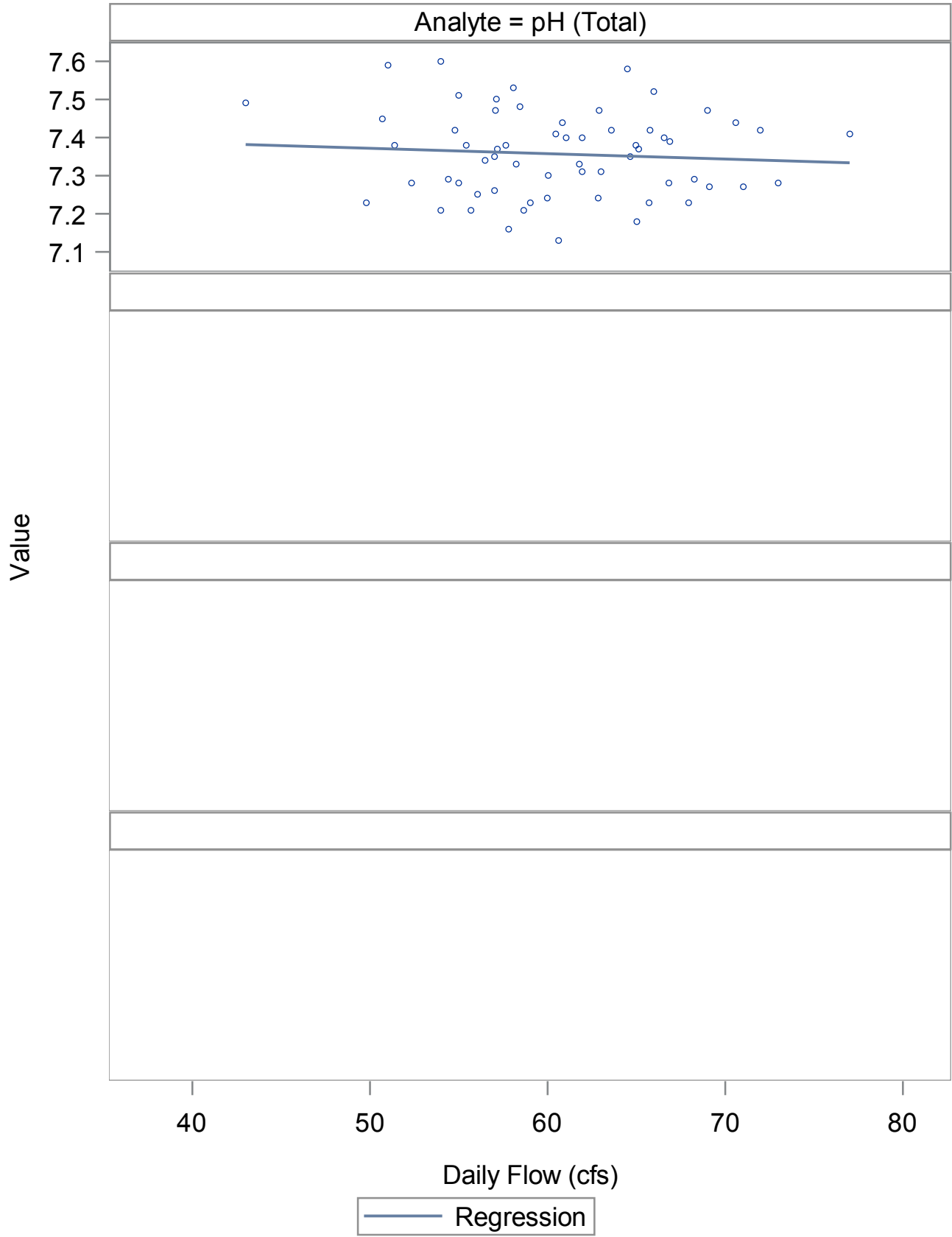
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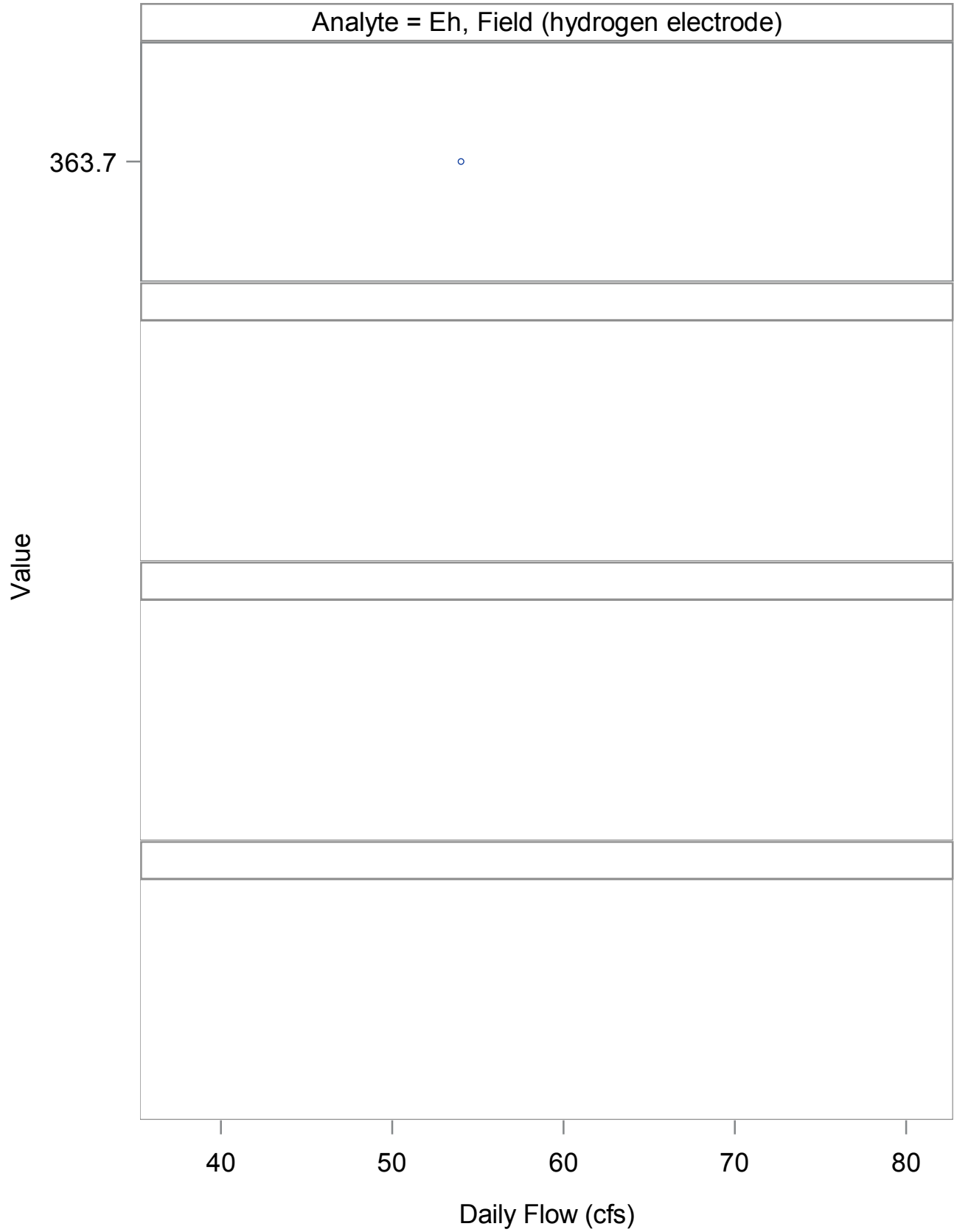
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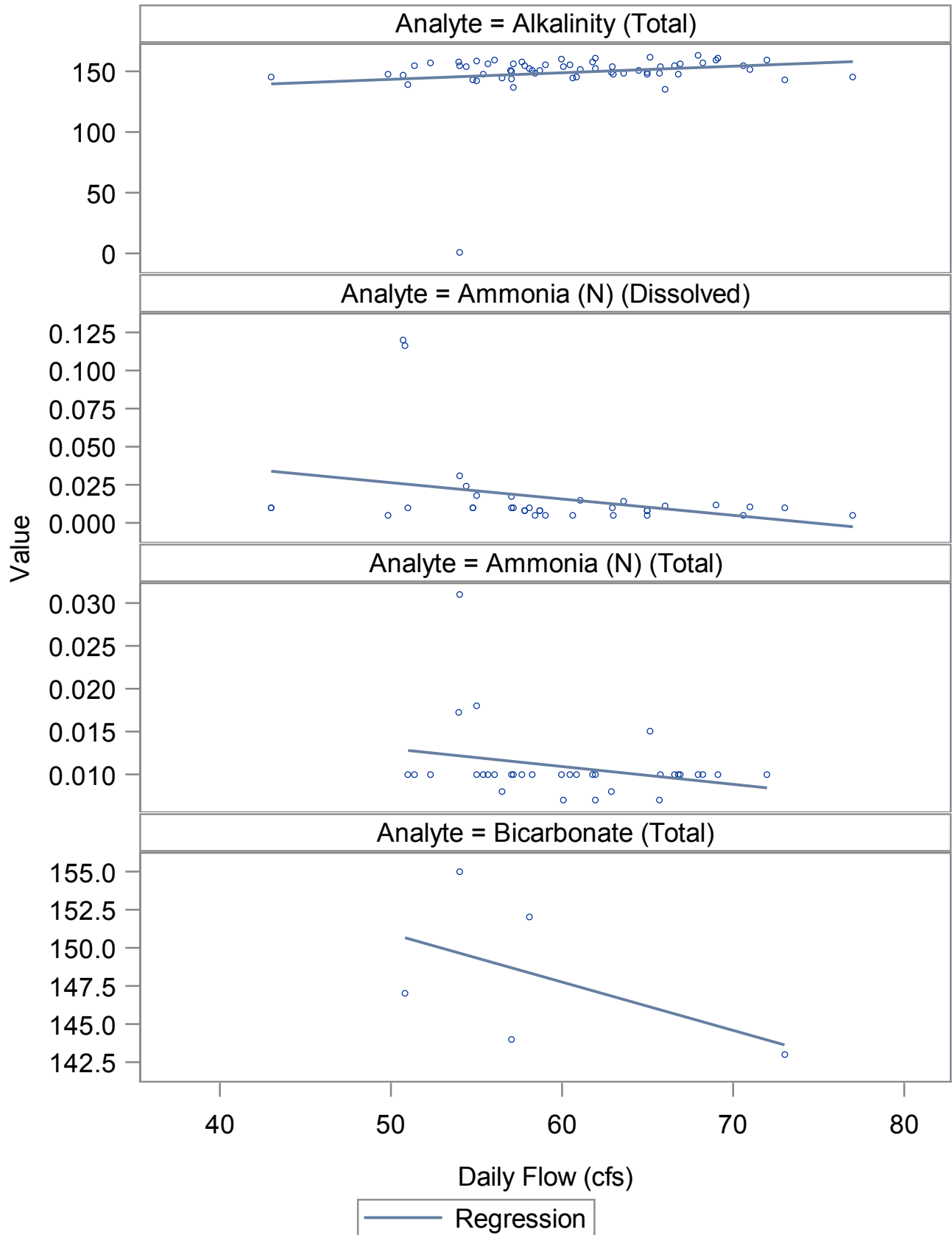
All Data Against Daily Flows

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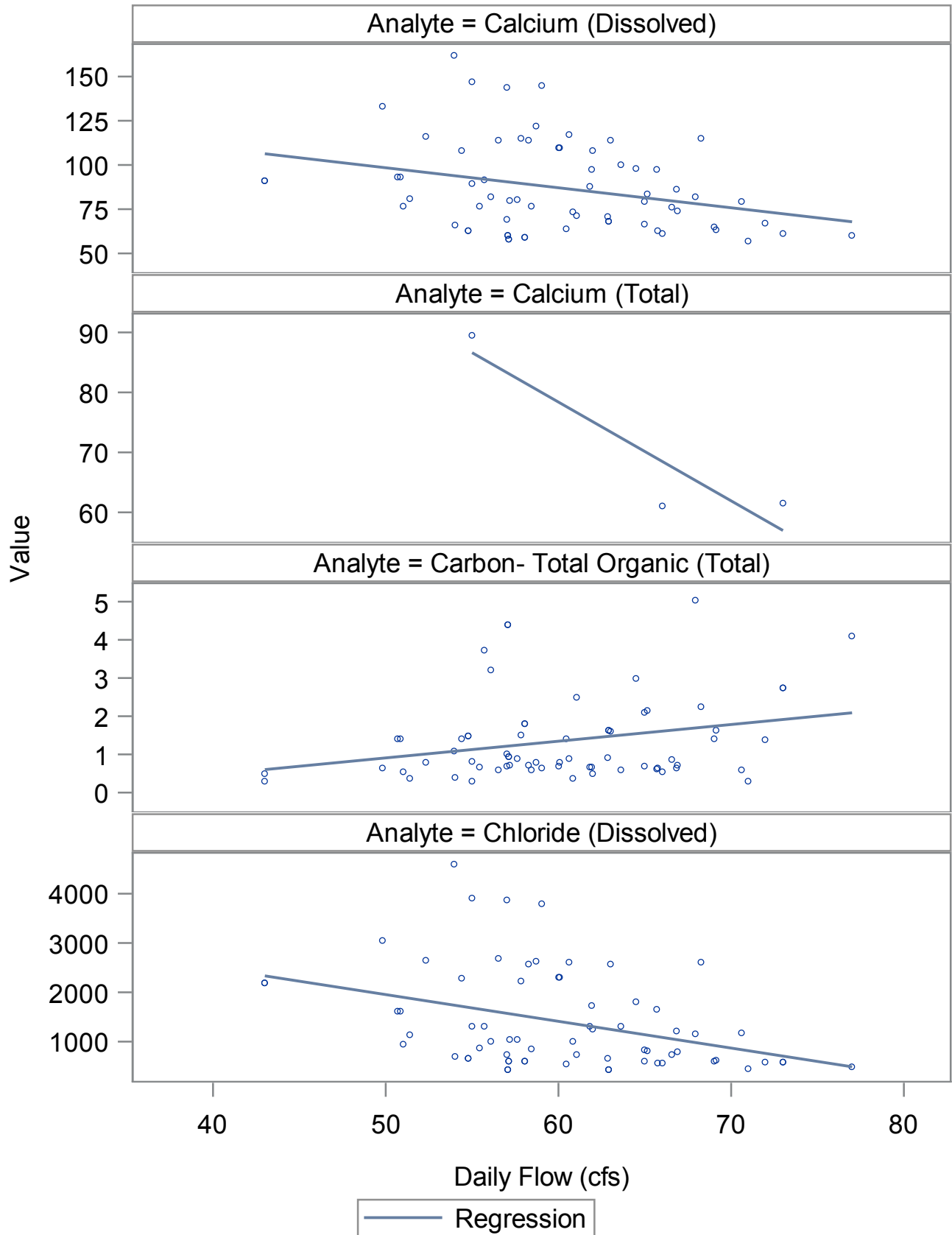
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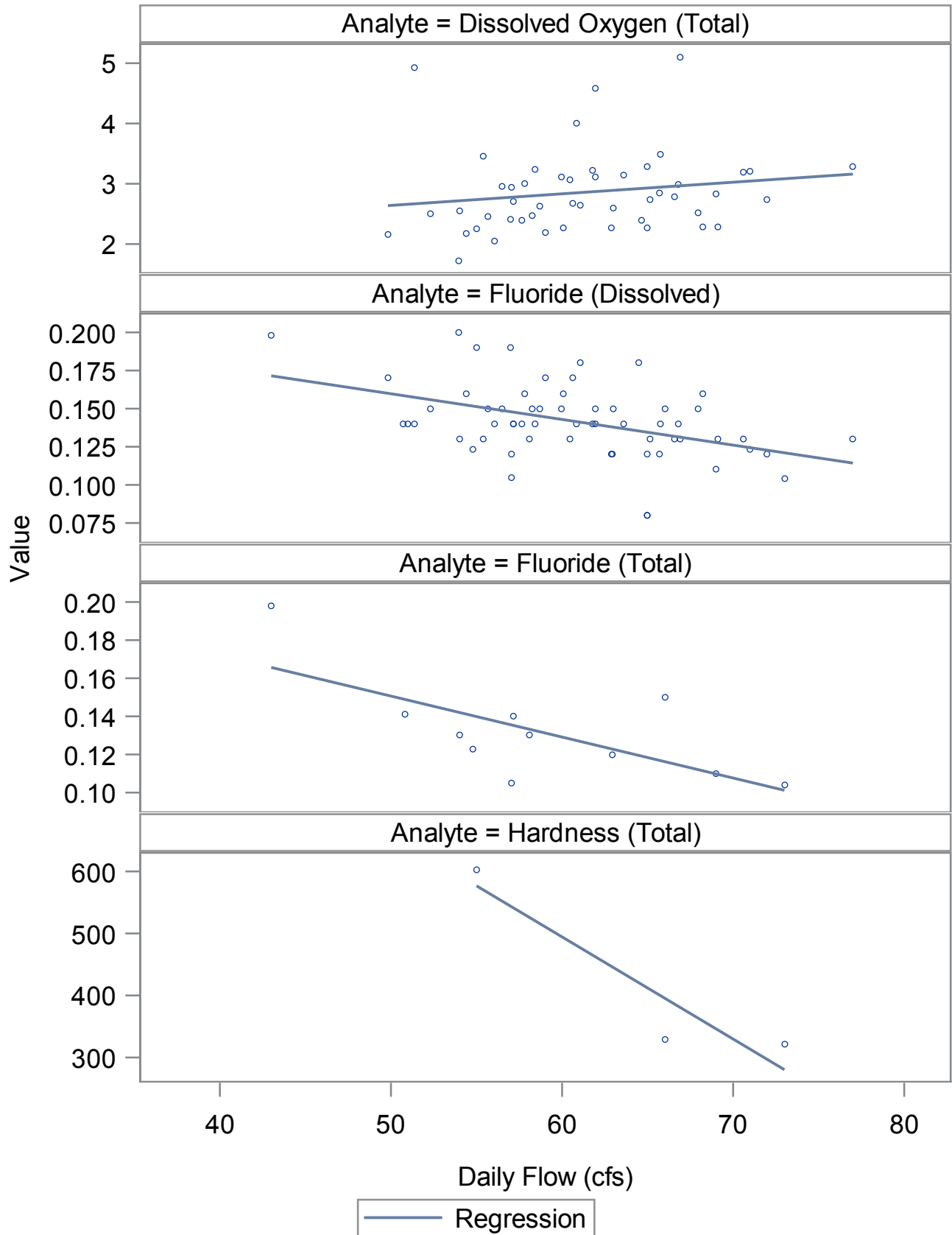
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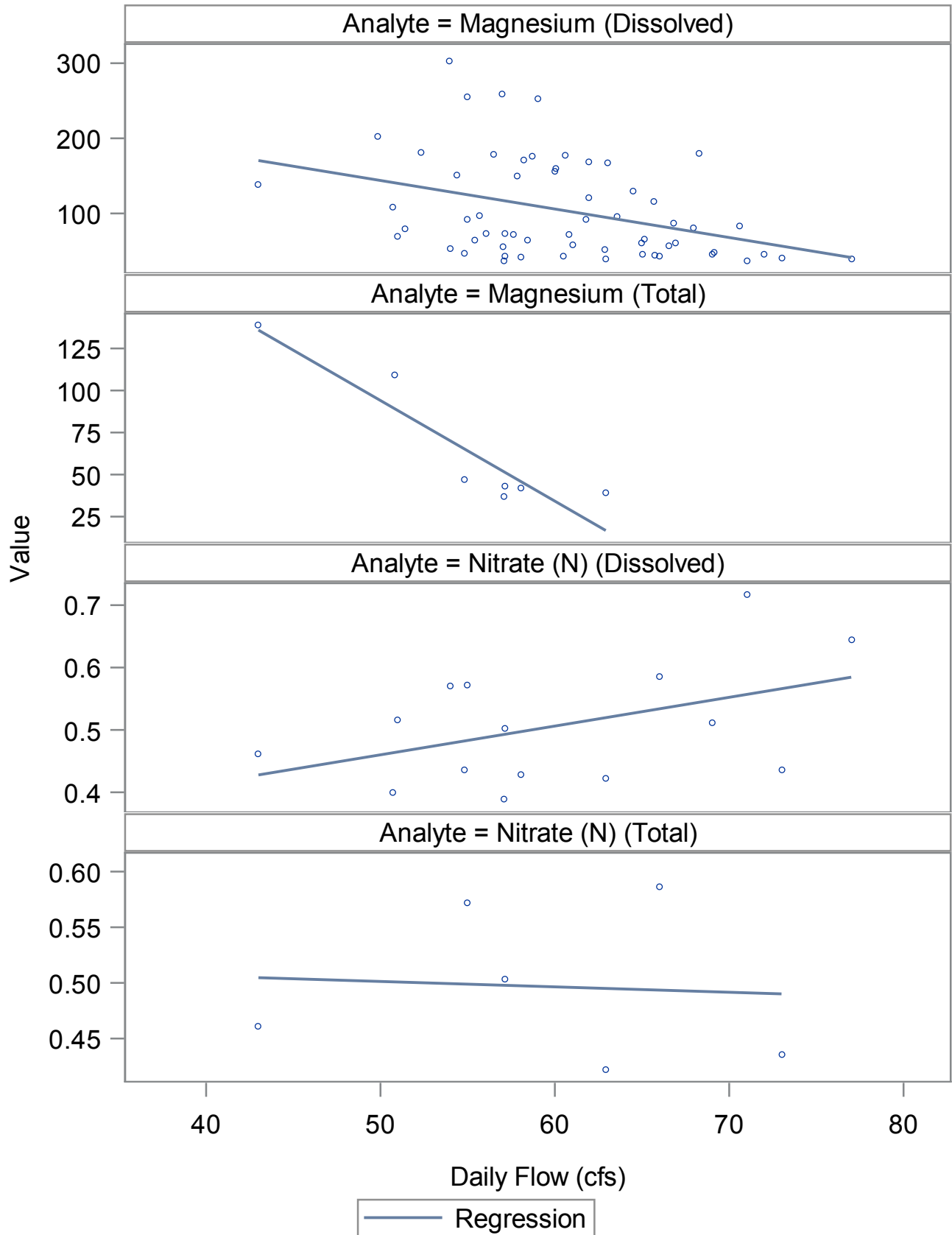
All Data Against Daily Flows

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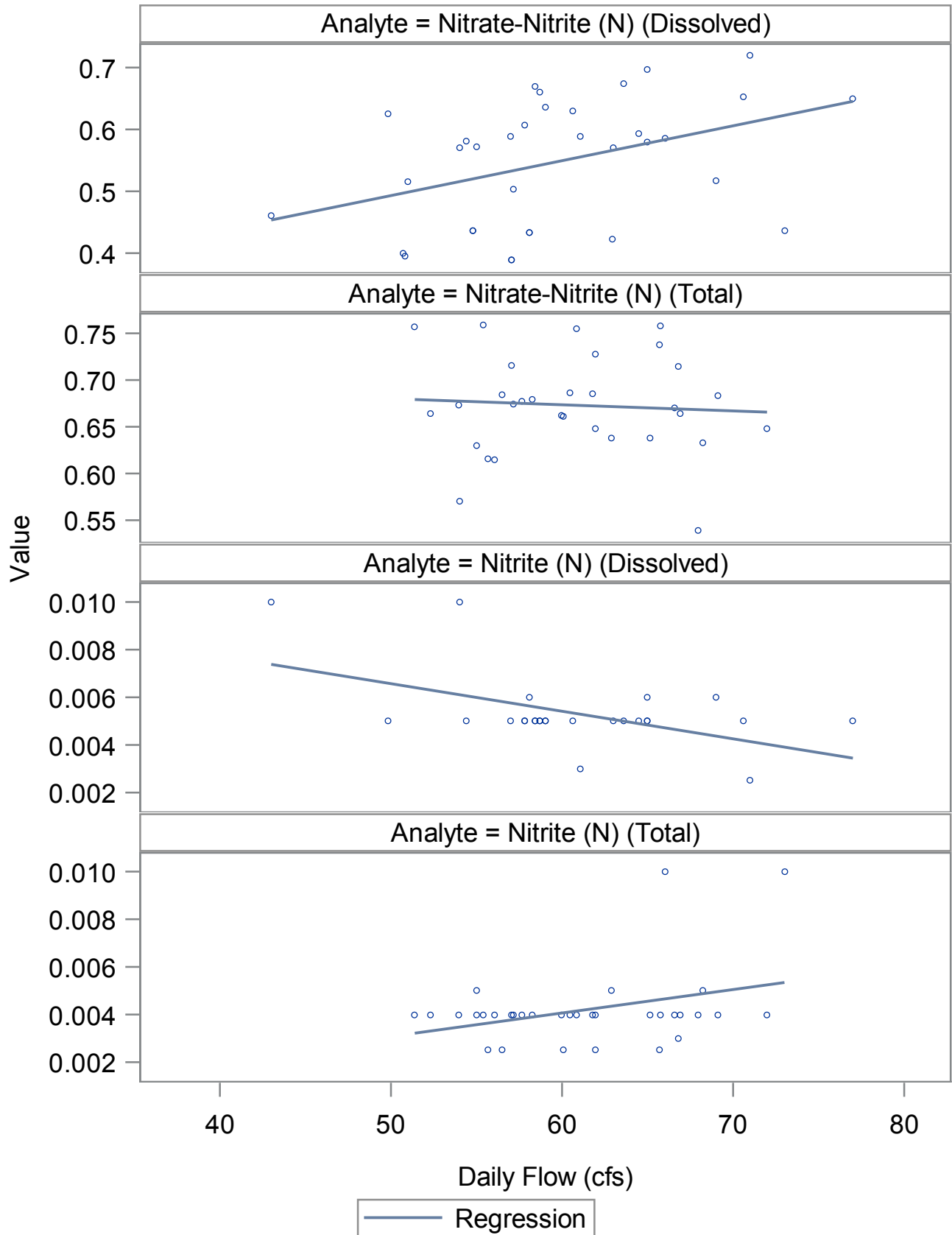
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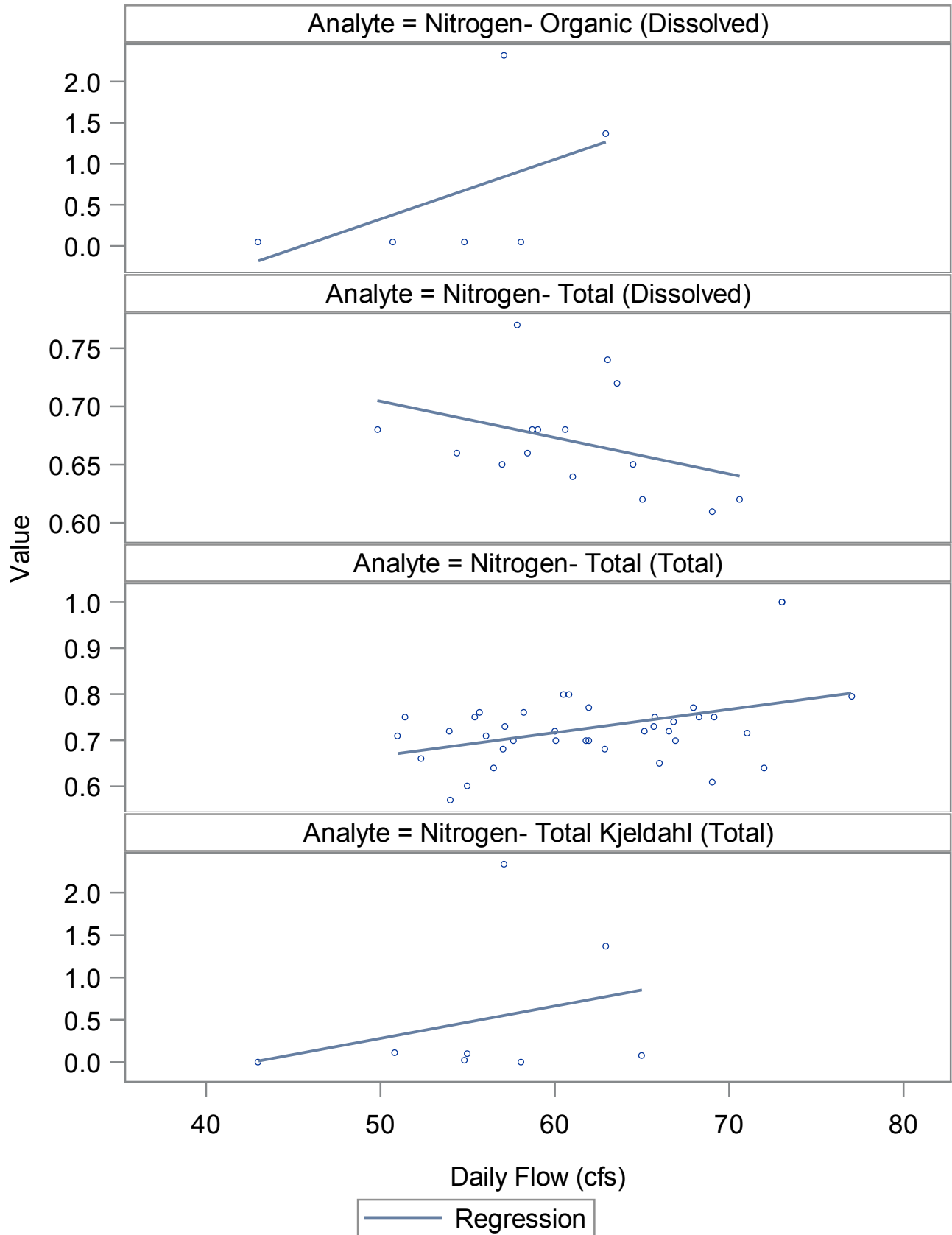
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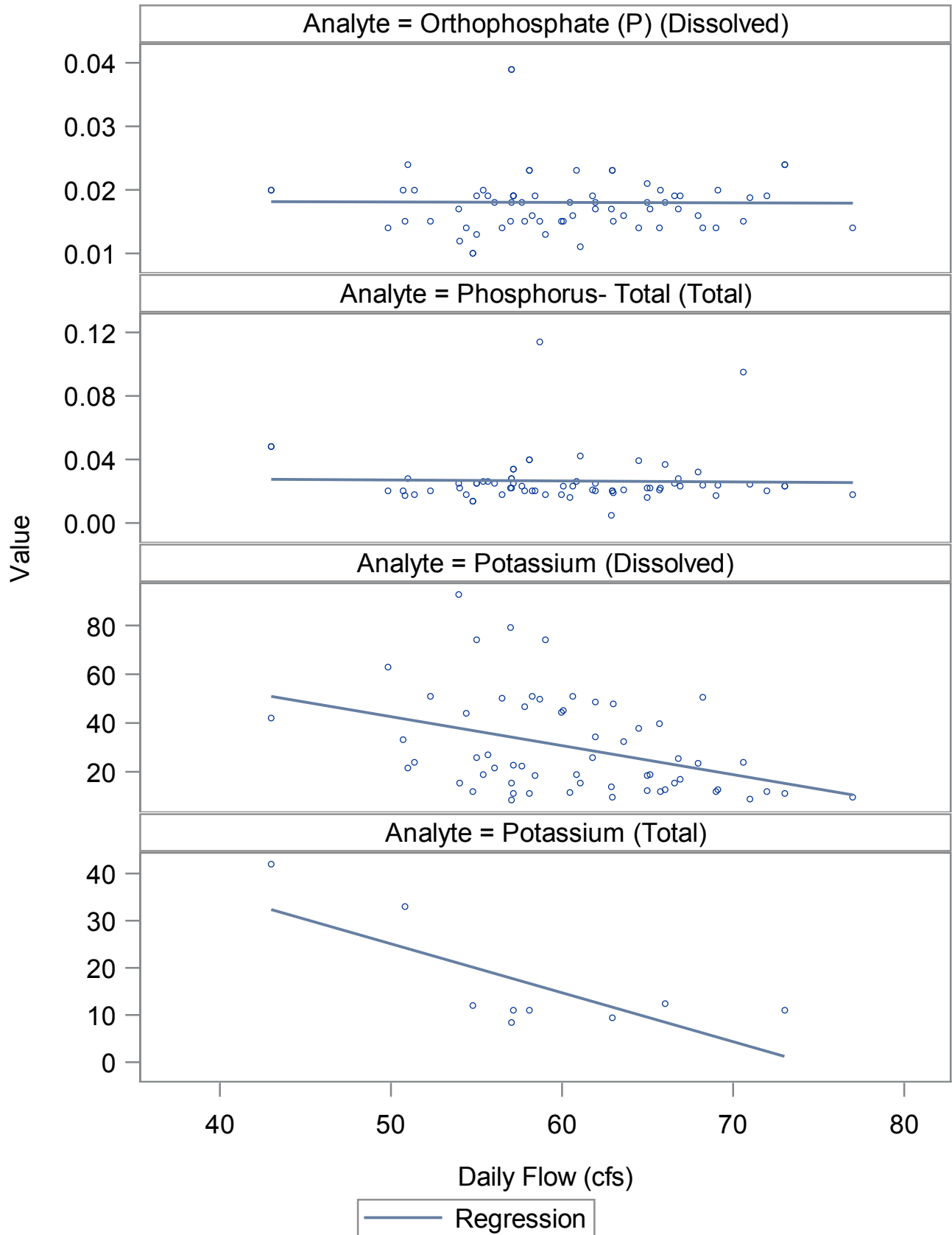
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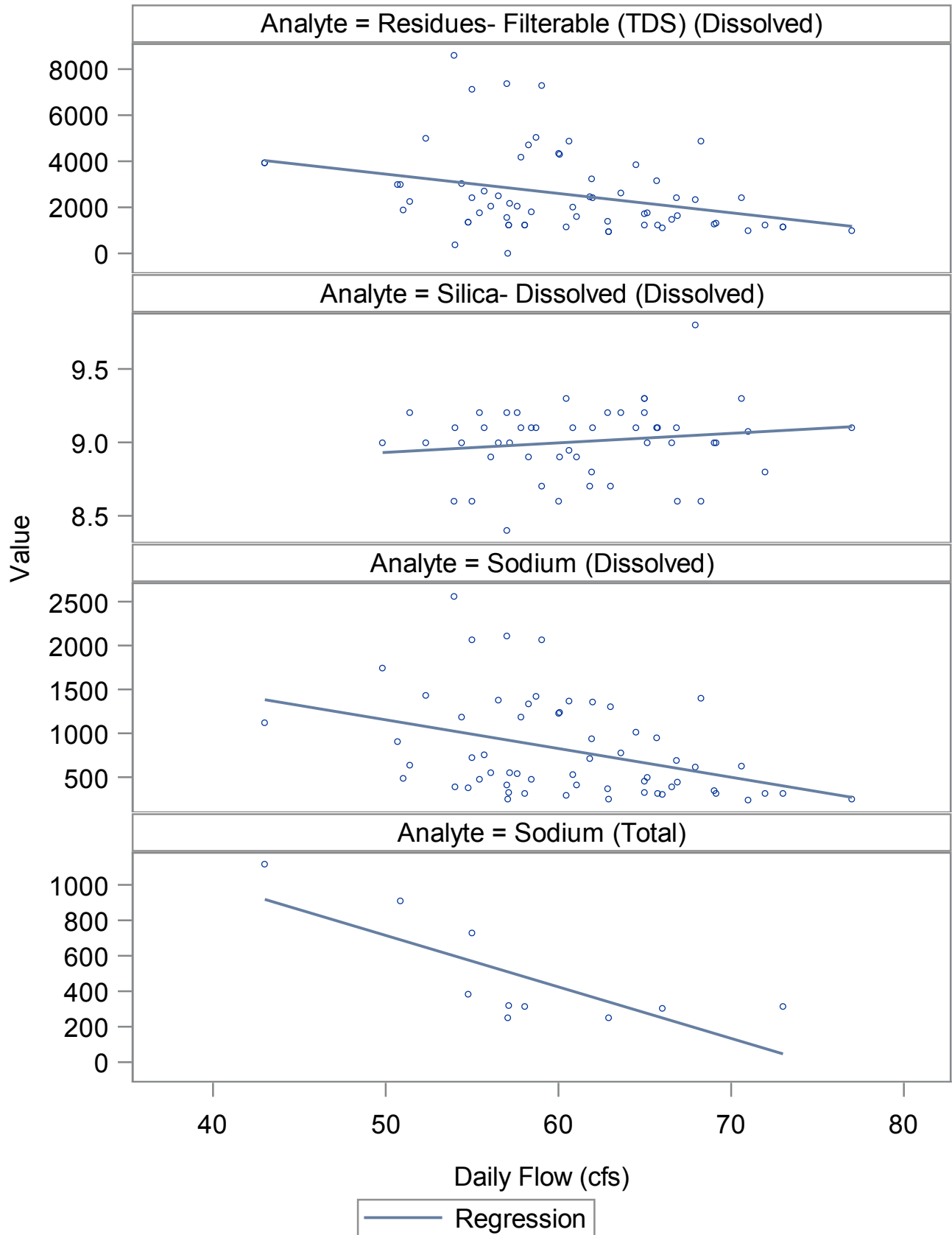
All Data Against Daily Flows

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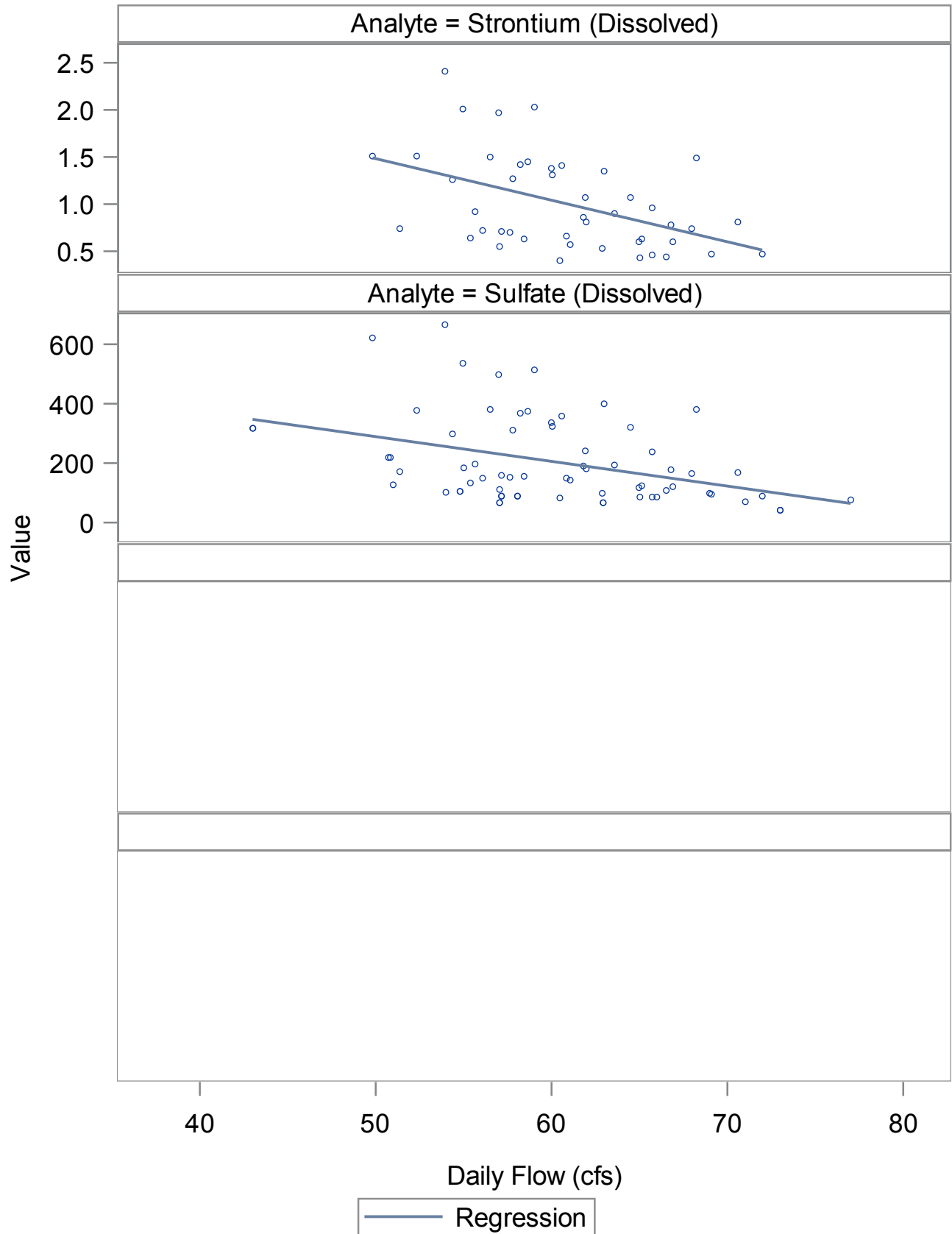
All Data Against Daily Flows

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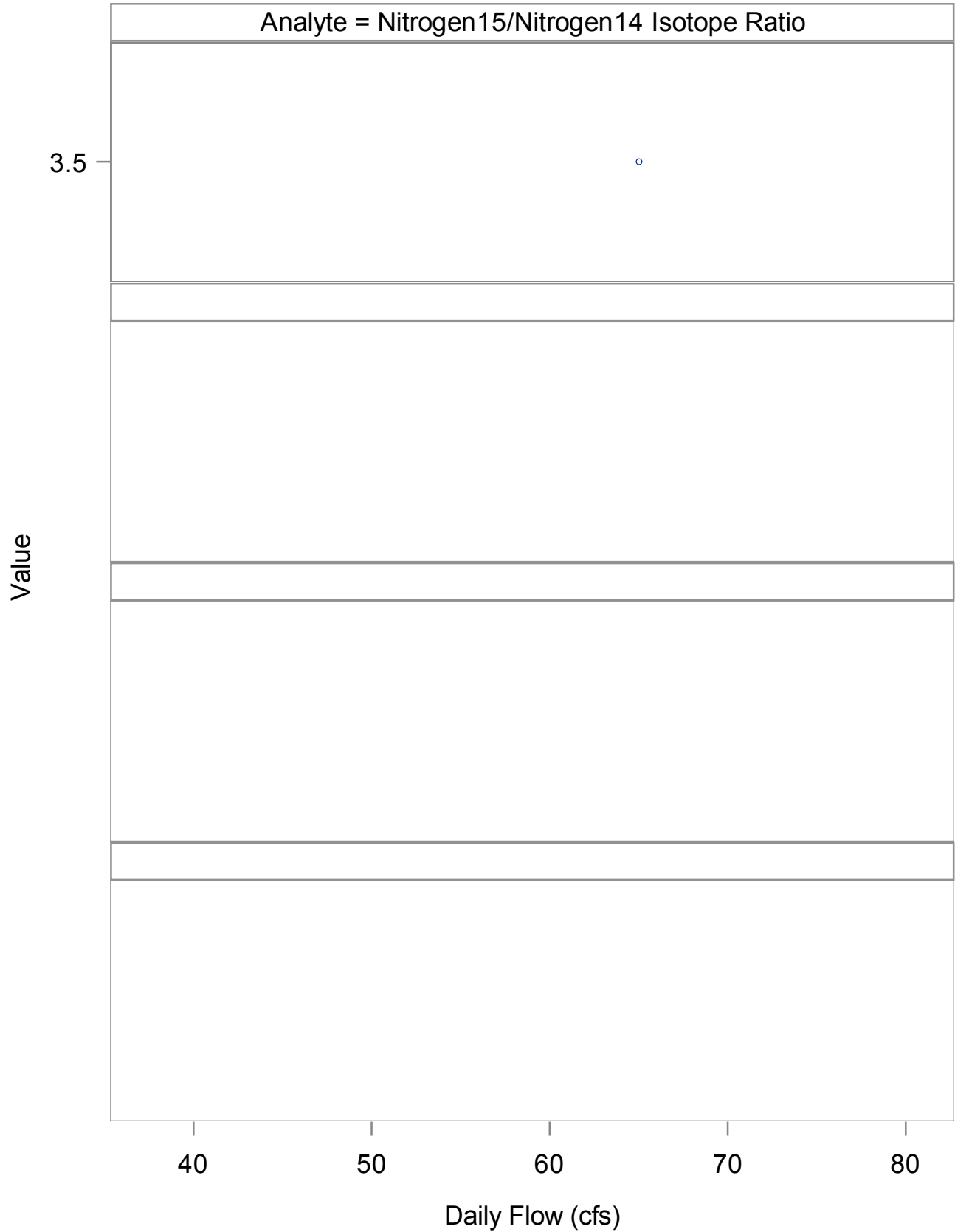
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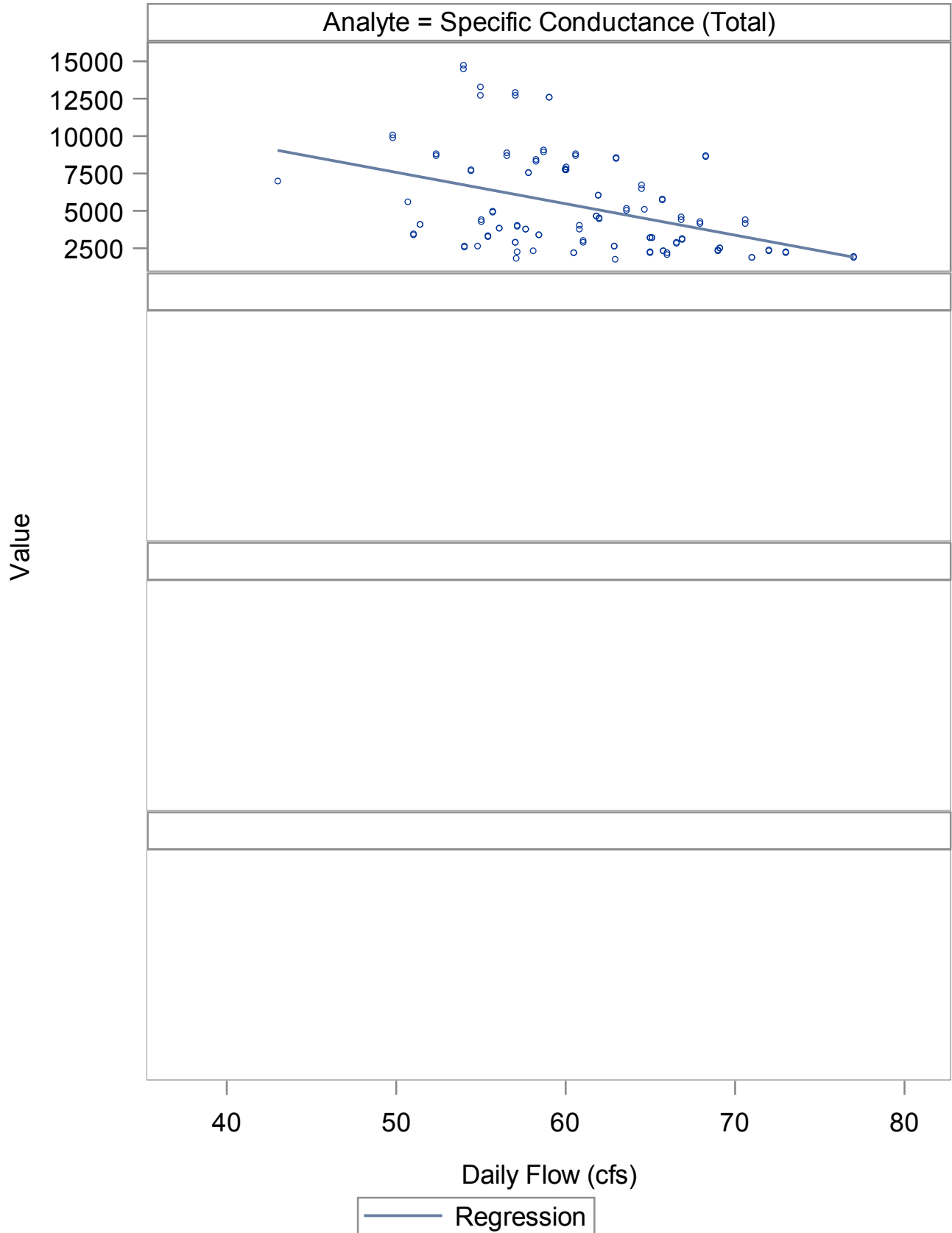
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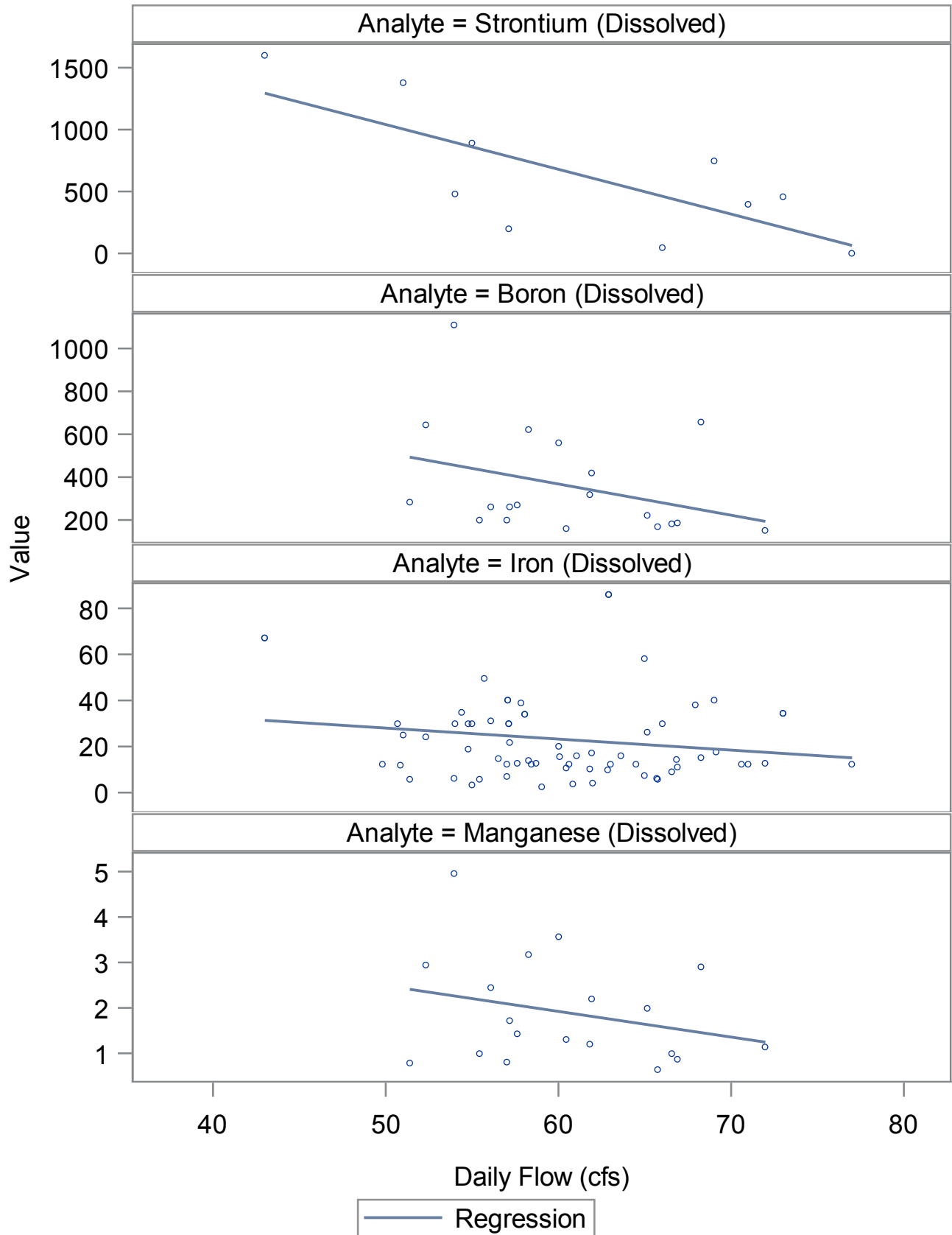
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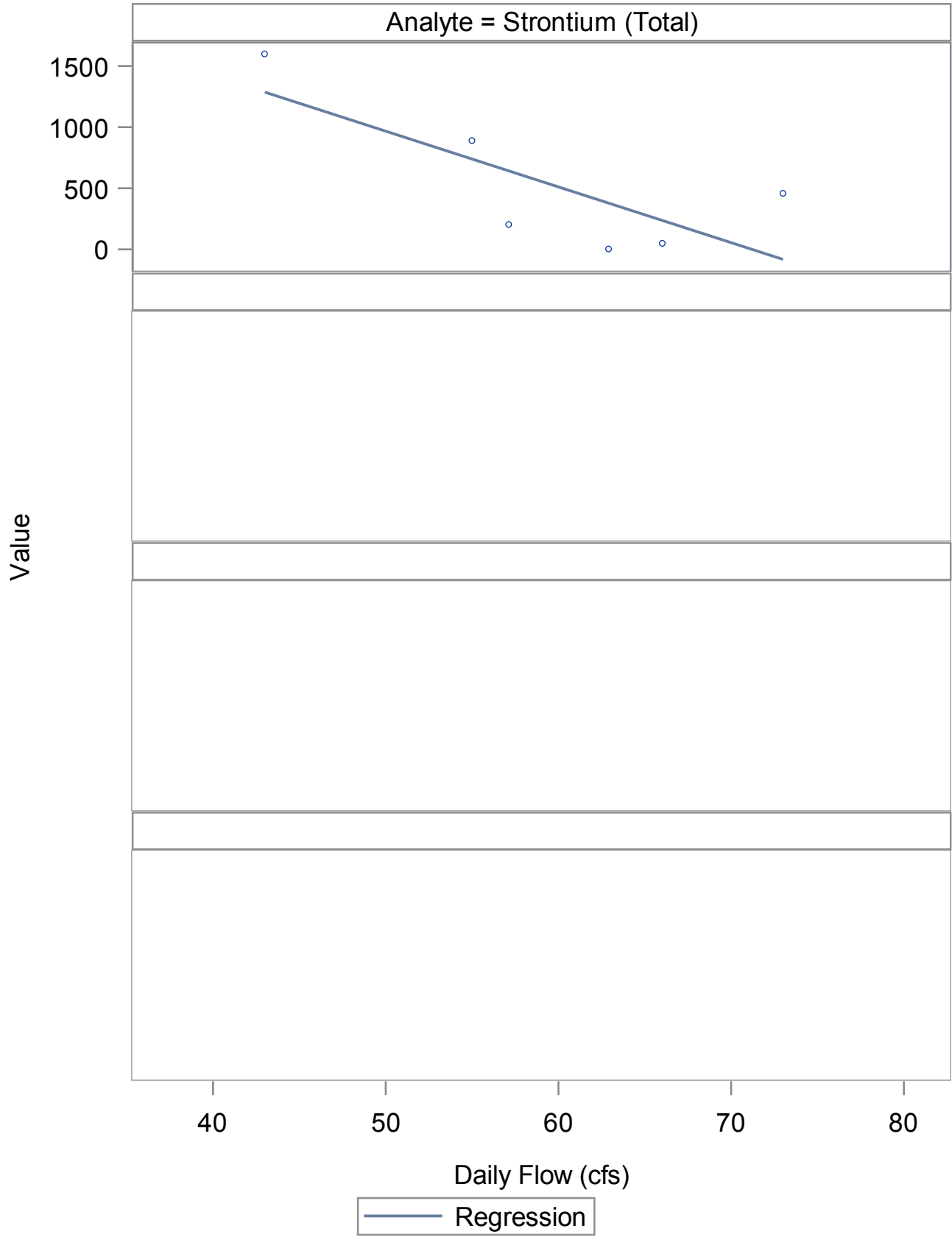
All Data Against Daily Flows

Source=P-889 Station=RUTH SPRING Units=ug/L



All Data Against Daily Flows

Source=P-889 Station=RUTH SPRING Units=ug/L



APPENDIX D

Linear Regression Results for Exploratory Data Analysis of Water Quality and Flow Relationships in the Mainstem of the Chassahowitzka River.

Includes table of linear regression results followed by bivariate plots for all significant regression relationships

Appendix D. List of all significant regressions with daily flows in Chassahowitzka River mainstem.								
Parameter	Site Name	Source	UNITS	Intercept	slope	P value	EDF	RSQ
Calcium (Total)	CHASSAHOWITZKA RIVER AB GULF	Inactive	mg/L	134.62660	-0.86583	0.0029327 2	19	0.38
Chloride (Dissolved)	CHASSAHOWITZKA RIVER AB GULF	Inactive	mg/L	2099.8416 5	- 16.1953 4	0.0107204	18	0.31
Magnesium (Total)	CHASSAHOWITZKA RIVER AB GULF	Inactive	mg/L	142.81345	-1.08438	0.0009965 1	21	0.41
Phaeophytin (Total)	CHASSAHOWITZKA RIVER AB GULF	Inactive	ug/L	6.78927	-0.07547	0.0006398 6	19	0.47
Potassium (Total)	CHASSAHOWITZKA RIVER AB GULF	Inactive	mg/L	57.97496	-0.56308	4.18E-07	21	0.71
Residues- Filterable (TDS) (Dissolved)	CHASSAHOWITZKA RIVER AB GULF	Inactive	mg/L	4298.6162 9	- 36.5196 3	4.71E-06	19	0.68
Salinity (Total)	CHASSAHOWITZKA RIVER AB GULF	Inactive	ppth	4.28002	-0.03680	7.63E-06	18	0.68
Sodium (Total)	CHASSAHOWITZKA RIVER AB GULF	Inactive	mg/L	1364.6150 4	- 11.9705 3	0.0020219	19	0.40
Specific Conductance (Total)	CHASSAHOWITZKA RIVER AB GULF	Inactive	uS/cm	7659.3444 5	- 62.8584 1	1.1887E-05	24	0.56
Sulfate (Dissolved)	CHASSAHOWITZKA RIVER AB GULF	Inactive	mg/L	311.75212	-2.57481	0.0005540 5	18	0.49
Dissolved Oxygen (Total)	CHASSAHOWITZKA RIVER NEAR USGS GAUGE	Other	mg/L	17.41587	-0.19961	0.0399089 8	10	0.36
Iron (Dissolved)	CHASSAHOWITZKA RIVER NEAR MOUTH	Other	ug/L	-51.93970	1.24526	0.0447765 6	10	0.34
pH (Total)	CHASSAHOWITZKA CRAWFORD CREEK MFL	Other	SU	9.15964	-0.02822	0.0074539 3	15	0.39
pH (Total)	CHASSAHOWITZKA RIVER NEAR USGS GAUGE	Other	SU	8.87655	-0.02169	0.0149851 6	10	0.46
Phosphorus- Total (Total)	CHASSAHOWITZKA RIVER NEAR	Other	mg/L	-0.04300	0.00112	0.0101321	10	0.50

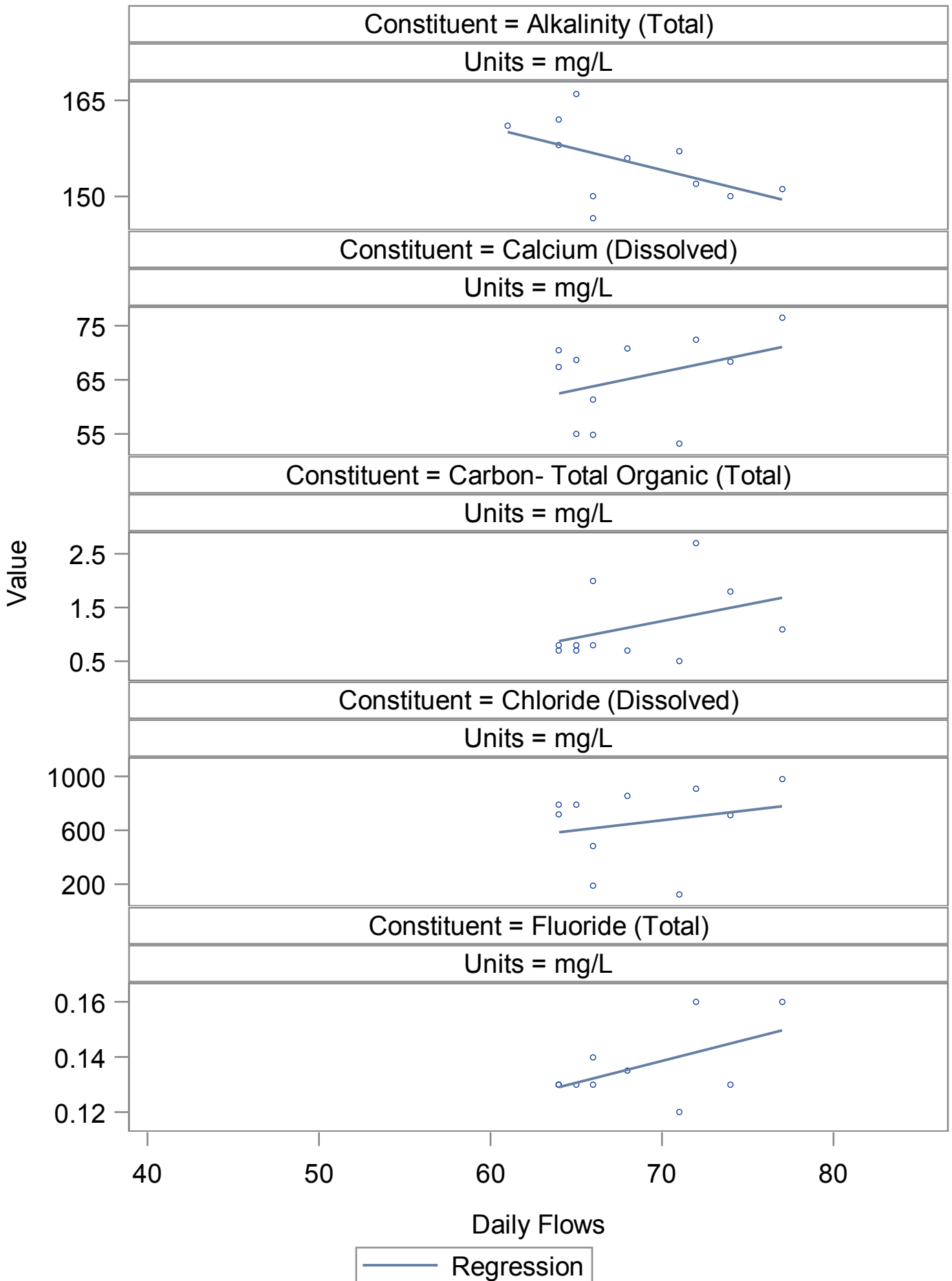
	MOUTH					3		
Salinity (Total)	CHASSAHOWITZKA CRAB CREEK MFL	Other	ppth	7.51017	-0.06810	0.01291107	16	0.33
Salinity (Total)	CHASSAHOWITZKA POTTER CREEK MFL	Other	ppth	9.71021	-0.10976	0.00595457	21	0.31
Secchi-vertical (Total)	CHASSAHOWITZKA CRAB CREEK MFL	Other	Meters	-0.48171	0.01304	0.00550659	12	0.49
Stage (Total)	CHASSAHOWITZKA CRAWFORD CREEK MFL	Other	Ft.	-2.37331	0.04571	0.02592458	12	0.35
Calcium (Dissolved)	CHASSAHOWITZKA RIVER CV5	P-108	mg/L	337.64757	-2.63542	0.00209525	25	0.32
Carbon- Total Organic (Total)	CHASSAHOWITZKA RIVER CV0.5	P-108	mg/L	-0.79195	0.02655	0.00043324	21	0.45
Magnesium (Dissolved)	CHASSAHOWITZKA RIVER CV0.5	P-108	mg/L	149.40922	-1.32520	0.00308812	25	0.30
Magnesium (Dissolved)	CHASSAHOWITZKA RIVER CV5	P-108	mg/L	903.39213	-8.35280	0.0025899	25	0.31
Potassium (Dissolved)	CHASSAHOWITZKA RIVER CV0.5	P-108	mg/L	44.35869	-0.40949	0.00266703	25	0.31
Sodium (Dissolved)	CHASSAHOWITZKA RIVER CV0.5	P-108	mg/L	1144.45820	-10.58709	0.0027895	25	0.31
Sodium (Dissolved)	CHASSAHOWITZKA RIVER CV5	P-108	mg/L	7425.78571	-69.71424	0.00184211	25	0.33
Salinity (Total)	CHASSAHOWITZKA CITRUS 10	P-529	ppth	41.10406	-0.32431	2.76E-21	212	0.35
Salinity (Total)	CHASSAHOWITZKA CITRUS 2	P-529	ppth	14.21404	-0.17062	6.17E-20	192	0.35
Salinity (Total)	CHASSAHOWITZKA CITRUS 3	P-529	ppth	25.22177	-0.28589	1.00E-18	204	0.32
Salinity (Total)	CHASSAHOWITZKA HERNANDO 4	P-529	ppth	30.24898	-0.31581	9.33E-21	215	0.33
Salinity (Total)	CHASSAHOWITZKA HERNANDO 5	P-529	ppth	37.00890	-0.35886	1.34E-23	215	0.37
Salinity (Total)	CHASSAHOWITZKA HERNANDO 6	P-529	ppth	37.24129	-0.34976	2.47E-22	214	0.36
Salinity (Total)	CHASSAHOWITZKA HERNANDO 7	P-529	ppth	39.88727	-0.35917	9.38E-23	214	0.36
Salinity (Total)	CHASSAHOWITZKA HERNANDO 8	P-529	ppth	39.25942	-0.35029	1.76E-22	215	0.36
Salinity (Total)	CHASSAHOWITZKA HERNANDO 9	P-529	ppth	41.12425	-0.34028	3.24E-21	213	0.34

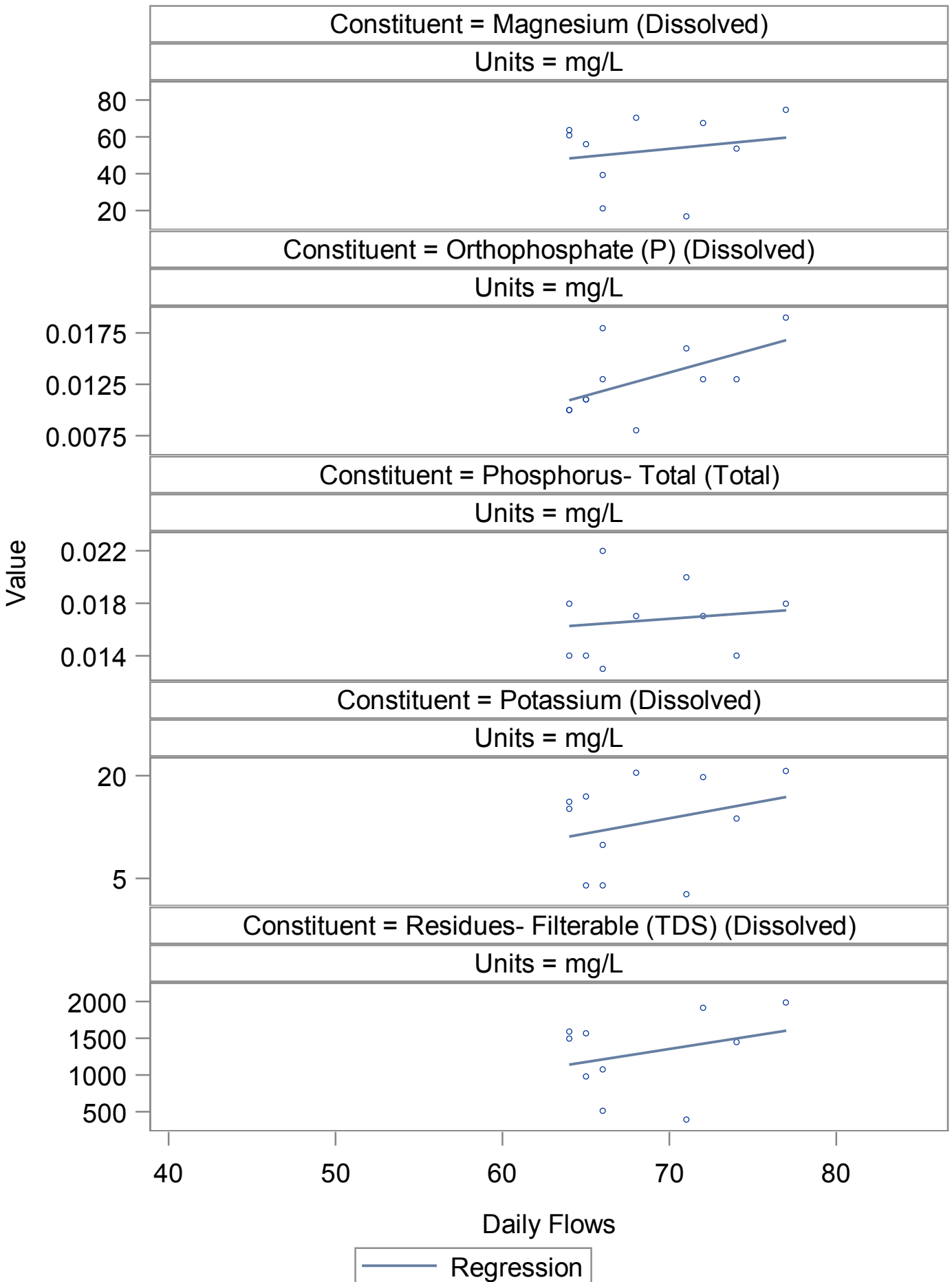
ALK_tot_mgL	Transect 10 - 2	UF 5 Rivers Study	.	203.56164	-0.69642	5.2051E-05	43	0.32
ALK_tot_mgL	Transect 10 - 3	UF 5 Rivers Study	.	205.47229	-0.72950	3.3157E-05	43	0.33
ALK_tot_mgL	Transect 10 - 4	UF 5 Rivers Study	.	204.27135	-0.70339	2.4766E-05	43	0.34
ALK_tot_mgL	Transect 7 - 4	UF 5 Rivers Study	.	186.62230	-0.51471	3.9138E-05	43	0.33
ALK_tot_mgL	Transect 9 - 2	UF 5 Rivers Study	.	193.89492	-0.56039	8.203E-05	43	0.31
Salinity (Total)	Transect 1 - 3	UF 5 Rivers Study	.	5.51802	-0.05726	6.0913E-05	44	0.31
Salinity (Total)	Transect 10 - 2	UF 5 Rivers Study	.	9.98519	-0.10790	8.9276E-05	41	0.32
Salinity (Total)	Transect 10 - 4	UF 5 Rivers Study	.	10.58923	-0.11635	1.7852E-05	41	0.37
Salinity (Total)	Transect 12 - 2	UF 5 Rivers Study	.	20.02707	-0.22581	0.00011952	41	0.31
Salinity (Total)	Transect 12 - 3	UF 5 Rivers Study	.	20.48493	-0.23345	0.0001149	41	0.31
Salinity (Total)	Transect 17 - 3	UF 5 Rivers Study	.	30.22864	-0.31054	6.7705E-05	43	0.31
Salinity (Total)	Transect 2 - 3	UF 5 Rivers Study	.	4.76927	-0.04675	3.6984E-05	44	0.32
Salinity (Total)	Transect 2 - 4	UF 5 Rivers Study	.	5.08461	-0.05944	7.92E-07	44	0.43
Salinity (Total)	Transect 3 - 2	UF 5 Rivers Study	.	4.57018	-0.04318	1.34E-06	44	0.42
Salinity (Total)	Transect 3 - 3	UF 5 Rivers Study	.	4.95594	-0.05116	1.51E-07	44	0.47
Salinity (Total)	Transect 3 - 4	UF 5 Rivers Study	.	5.25770	-0.05979	3.18E-07	44	0.45
Salinity (Total)	Transect 4 - 2	UF 5 Rivers Study	.	5.32227	-0.05225	1.14E-07	43	0.48

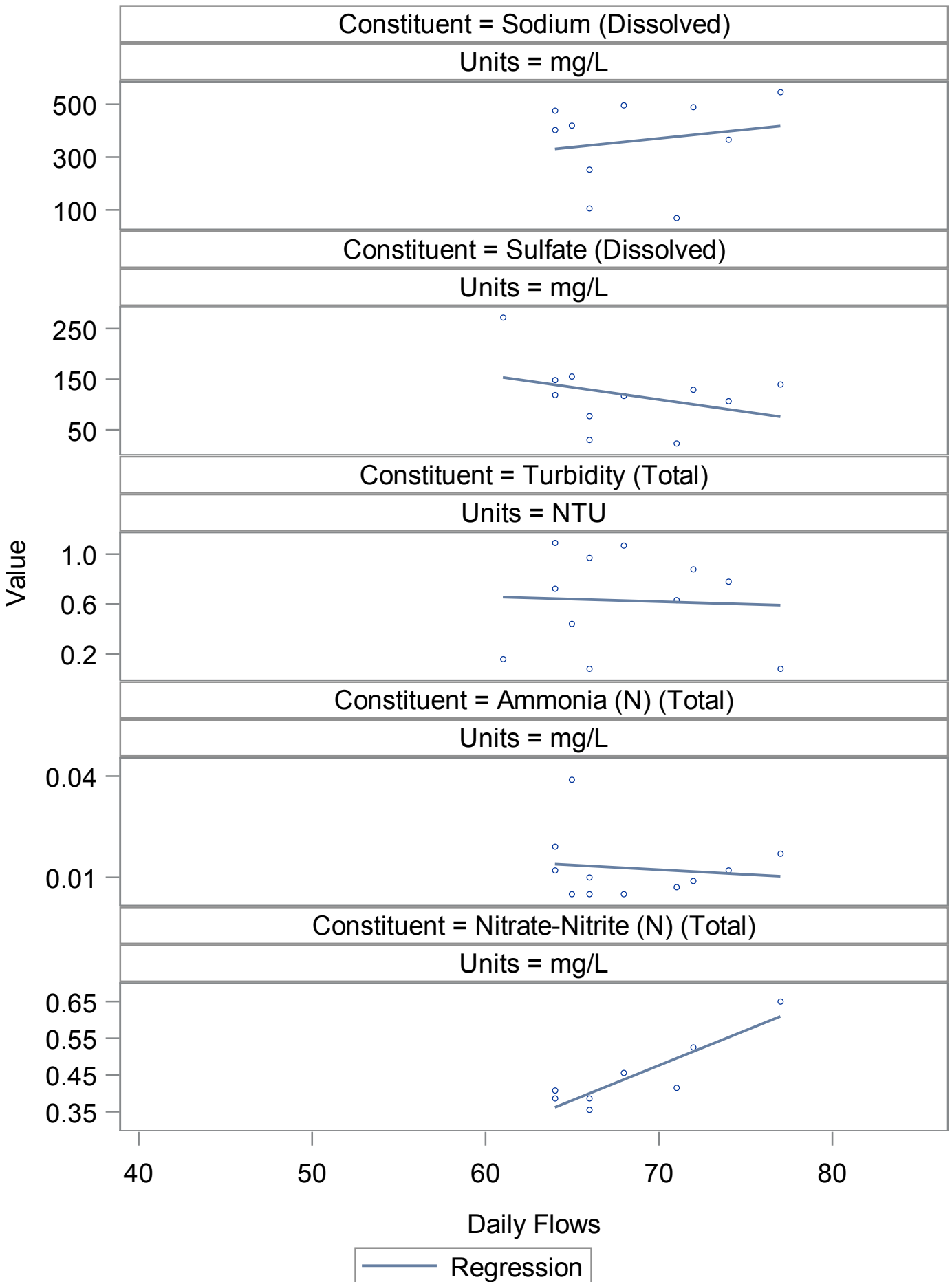
Salinity (Total)	Transect 4 - 3	UF 5 Rivers Study	.	5.22103	-0.05054	3.97E-07	43	0.45
Salinity (Total)	Transect 4 - 4	UF 5 Rivers Study	.	5.45710	-0.05413	5.57E-07	42	0.45
Salinity (Total)	Transect 5 - 2	UF 5 Rivers Study	.	5.52355	-0.05353	3.13E-07	43	0.46
Salinity (Total)	Transect 5 - 3	UF 5 Rivers Study	.	5.54432	-0.05320	6.60E-08	43	0.50
Salinity (Total)	Transect 5 - 4	UF 5 Rivers Study	.	5.41497	-0.05099	6.84E-08	43	0.50
Salinity (Total)	Transect 6 - 2	UF 5 Rivers Study	.	5.22564	-0.04658	4.0348E-05	43	0.33
Salinity (Total)	Transect 6 - 3	UF 5 Rivers Study	.	5.11237	-0.04484	3.6086E-05	43	0.33
Salinity (Total)	Transect 6 - 4	UF 5 Rivers Study	.	5.09011	-0.04480	8.31E-06	43	0.37
Salinity (Total)	Transect 7 - 2	UF 5 Rivers Study	.	5.73181	-0.04635	4.1075E-05	41	0.34
Salinity (Total)	Transect 7 - 3	UF 5 Rivers Study	.	5.60820	-0.05056	1.4815E-05	41	0.37
Salinity (Total)	Transect 7 - 4	UF 5 Rivers Study	.	6.57111	-0.06762	1.04E-08	42	0.55
Salinity (Total)	Transect 8 - 2	UF 5 Rivers Study	.	6.63345	-0.06397	1.2345E-05	41	0.38
Salinity (Total)	Transect 8 - 3	UF 5 Rivers Study	.	6.56210	-0.06411	6.09E-06	41	0.40
Salinity (Total)	Transect 8 - 4	UF 5 Rivers Study	.	6.46500	-0.06389	4.57E-06	41	0.40
Salinity (Total)	Transect 9 - 4	UF 5 Rivers Study	.	7.49941	-0.07542	5.9933E-05	41	0.33
SPCOND_mS_cm	Transect 1 - 3	UF 5 Rivers Study	.	10.30229	-0.10691	1.3287E-05	44	0.35
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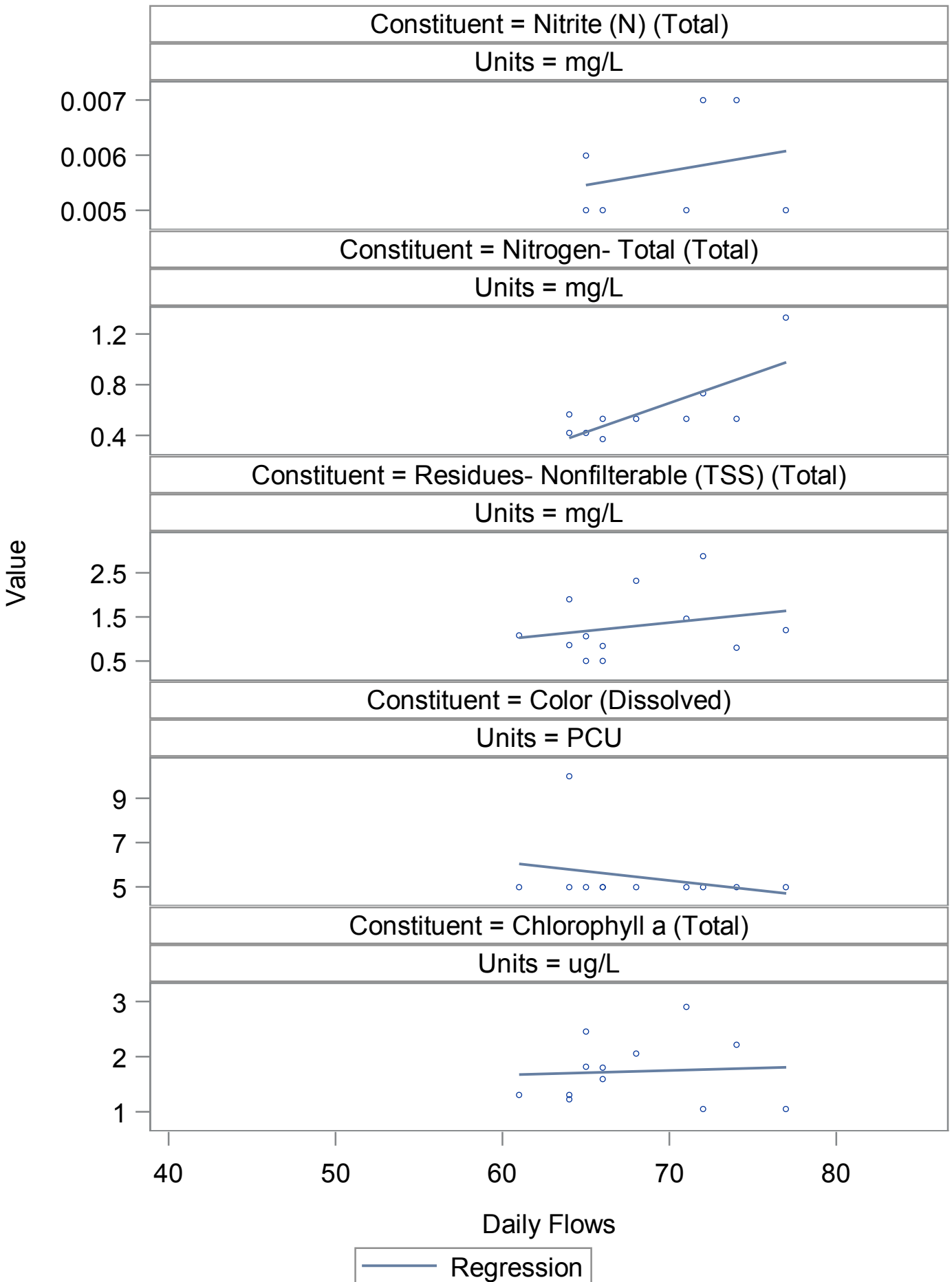
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SPCOND_mS_cm	Transect 10 - 4	UF 5 Rivers Study	.	18.87219	-0.20427	1.9324E-05	41	0.36
SPCOND_mS_cm	Transect 17 - 3	UF 5 Rivers Study	.	49.11328	-0.49488	4.6883E-05	43	0.32
SPCOND_mS_cm	Transect 2 - 3	UF 5 Rivers Study	.	8.90225	-0.08684	2.0245E-05	44	0.34
SPCOND_mS_cm	Transect 2 - 4	UF 5 Rivers Study	.	9.46649	-0.10939	5.50E-07	44	0.44
SPCOND_mS_cm	Transect 3 - 2	UF 5 Rivers Study	.	8.46528	-0.07867	1.17E-06	44	0.42
SPCOND_mS_cm	Transect 3 - 3	UF 5 Rivers Study	.	9.14048	-0.09298	6.04E-08	44	0.49
SPCOND_mS_cm	Transect 3 - 4	UF 5 Rivers Study	.	9.78337	-0.11005	2.17E-07	44	0.46
SPCOND_mS_cm	Transect 4 - 2	UF 5 Rivers Study	.	9.69326	-0.09333	7.77E-08	43	0.49
SPCOND_mS_cm	Transect 4 - 3	UF 5 Rivers Study	.	9.55399	-0.09064	4.56E-07	43	0.45
SPCOND_mS_cm	Transect 5 - 2	UF 5 Rivers Study	.	10.08985	-0.09590	2.12E-07	43	0.47
SPCOND_mS_cm	Transect 5 - 3	UF 5 Rivers Study	.	10.12409	-0.09534	5.31E-08	43	0.50
SPCOND_mS_cm	Transect 5 - 4	UF 5 Rivers Study	.	9.93026	-0.09208	4.20E-08	43	0.51
SPCOND_mS_cm	Transect 6 - 2	UF 5 Rivers Study	.	9.56878	-0.08387	2.9006E-05	43	0.34
SPCOND_mS_cm	Transect 6 - 3	UF 5 Rivers Study	.	9.39006	-0.08101	2.3711E-05	43	0.34
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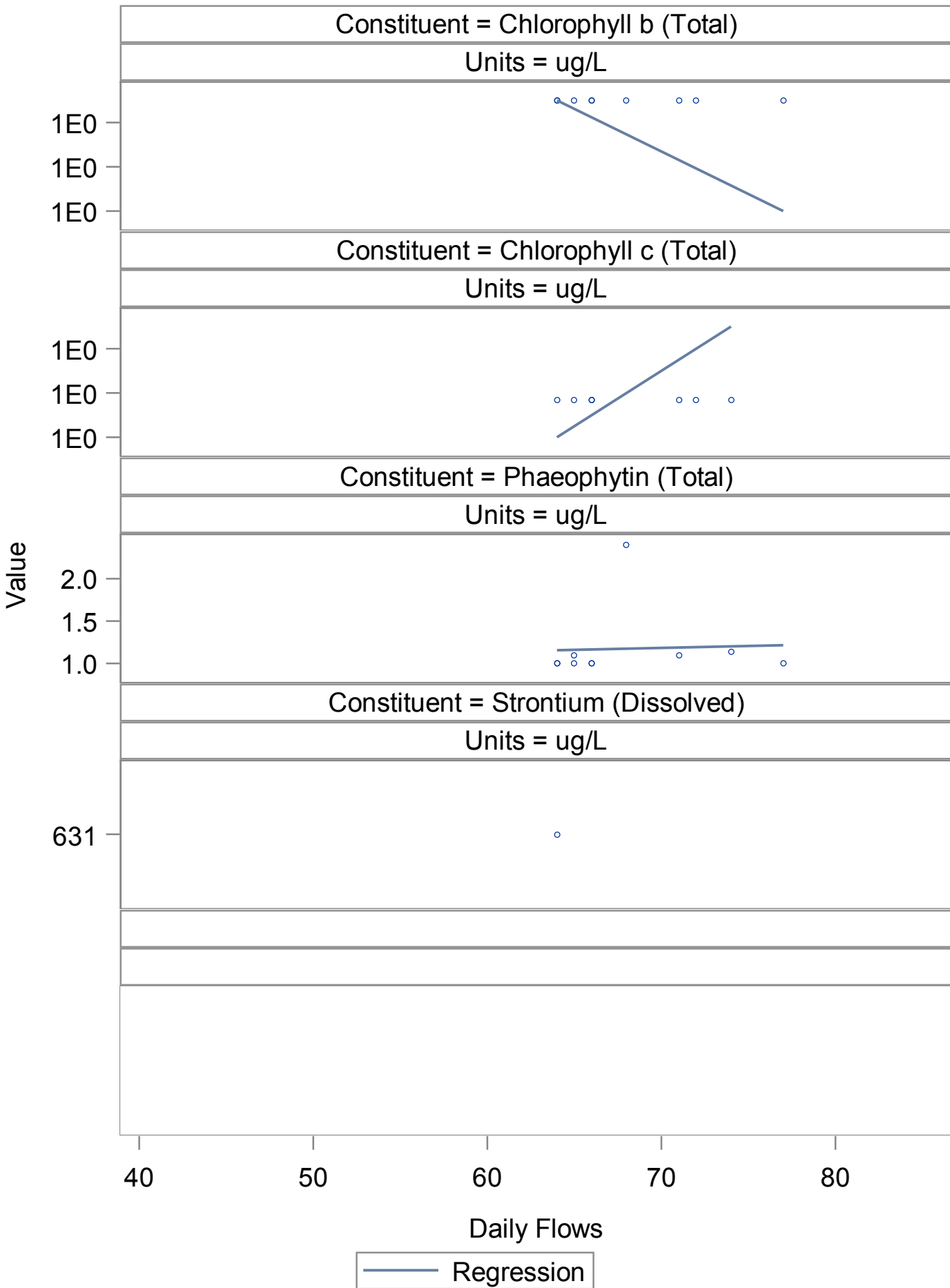
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SPCOND_mS_cm	Transect 7 - 3	UF 5 Rivers Study	.	10.25549	-0.09105	1.5204E-05	41	0.37
SPCOND_mS_cm	Transect 7 - 4	UF 5 Rivers Study	.	12.03250	-0.12218	1.24E-08	42	0.54
SPCOND_mS_cm	Transect 8 - 2	UF 5 Rivers Study	.	12.13171	-0.11571	1.0621E-05	41	0.38
SPCOND_mS_cm	Transect 8 - 3	UF 5 Rivers Study	.	11.79918	-0.11274	4.27E-06	41	0.41
SPCOND_mS_cm	Transect 8 - 4	UF 5 Rivers Study	.	11.78890	-0.11468	4.41E-06	41	0.41
SPCOND_mS_cm	Transect 9 - 4	UF 5 Rivers Study	.	13.85195	-0.13901	2.9162E-05	41	0.35

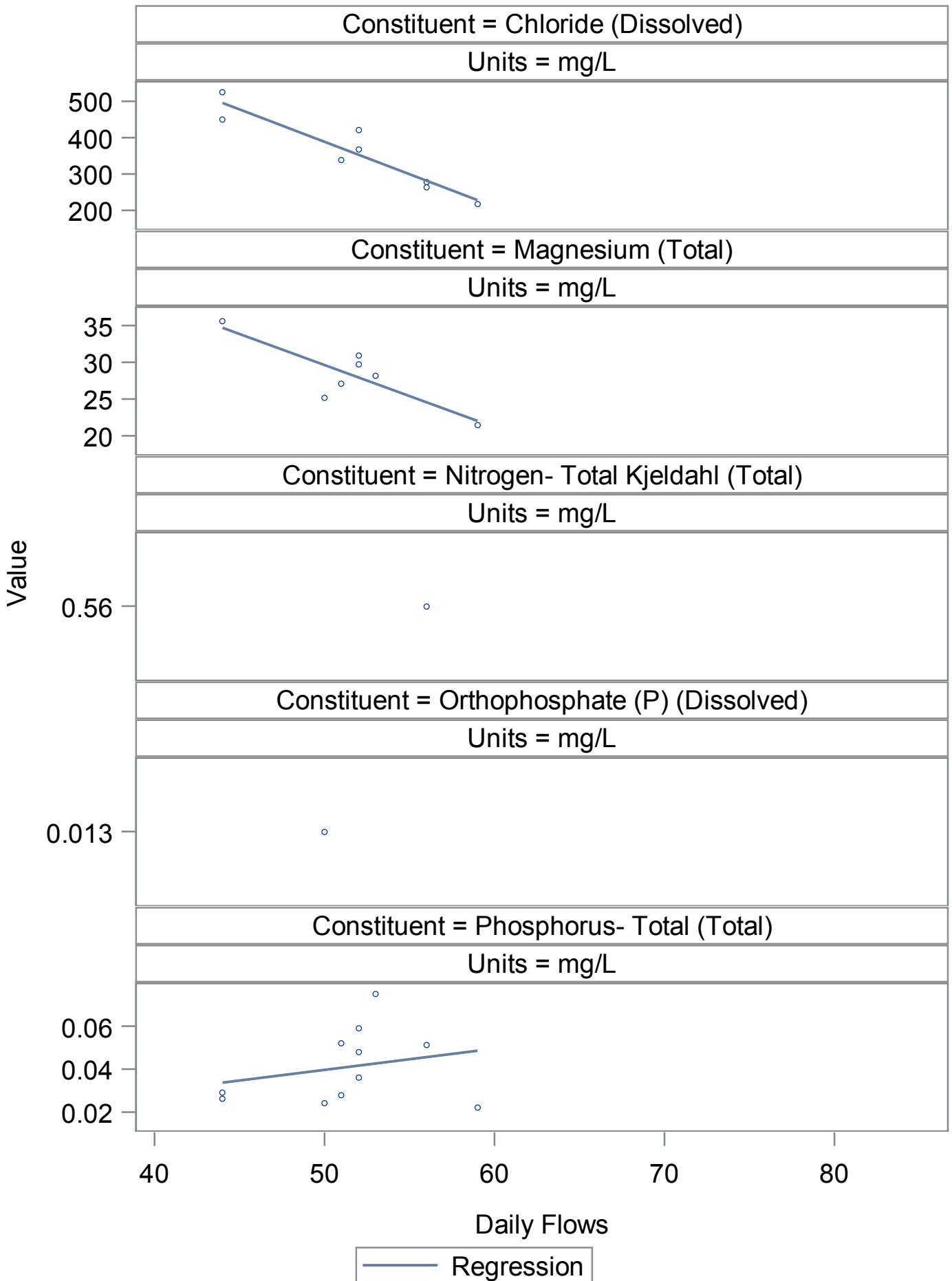


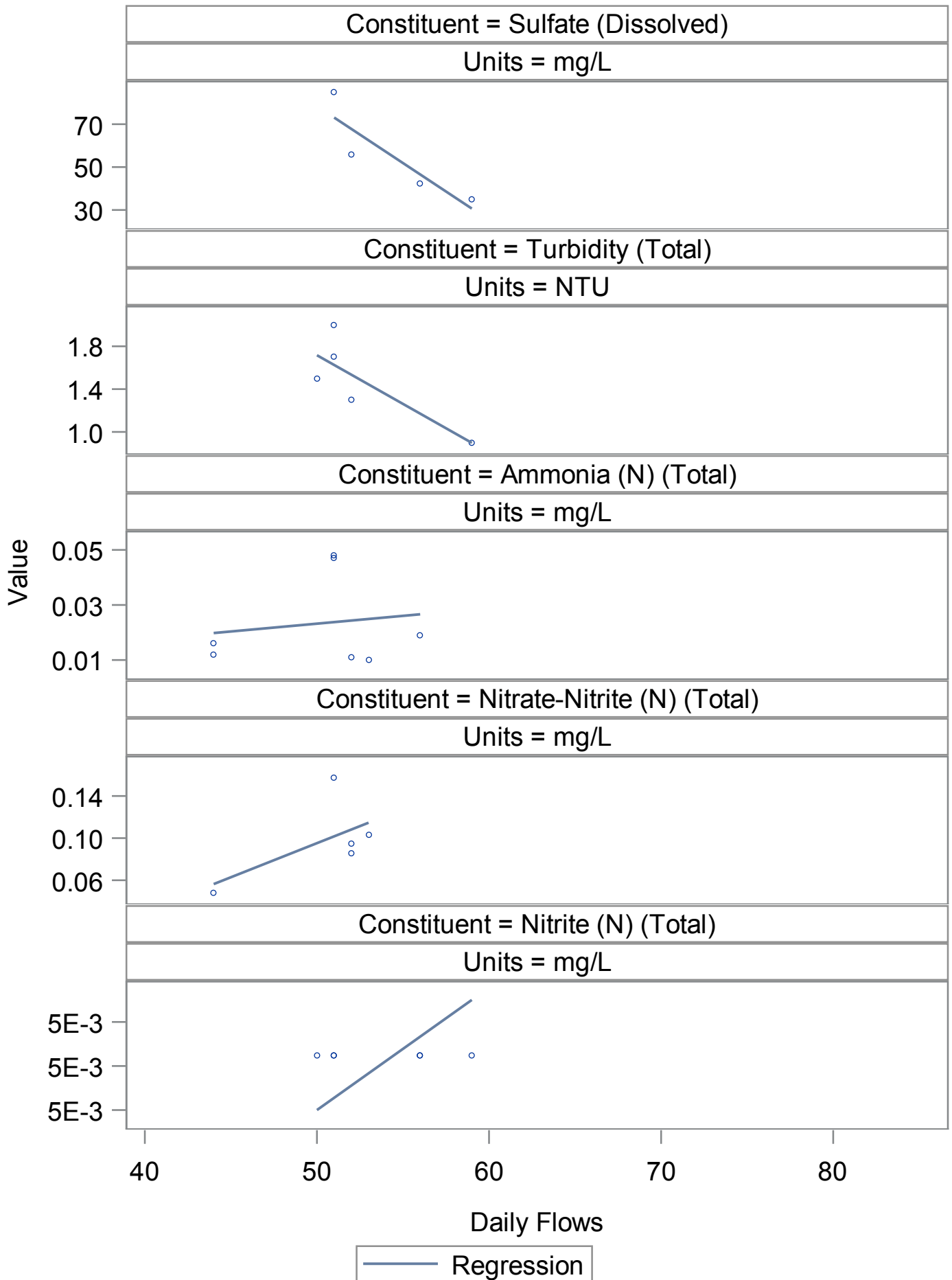


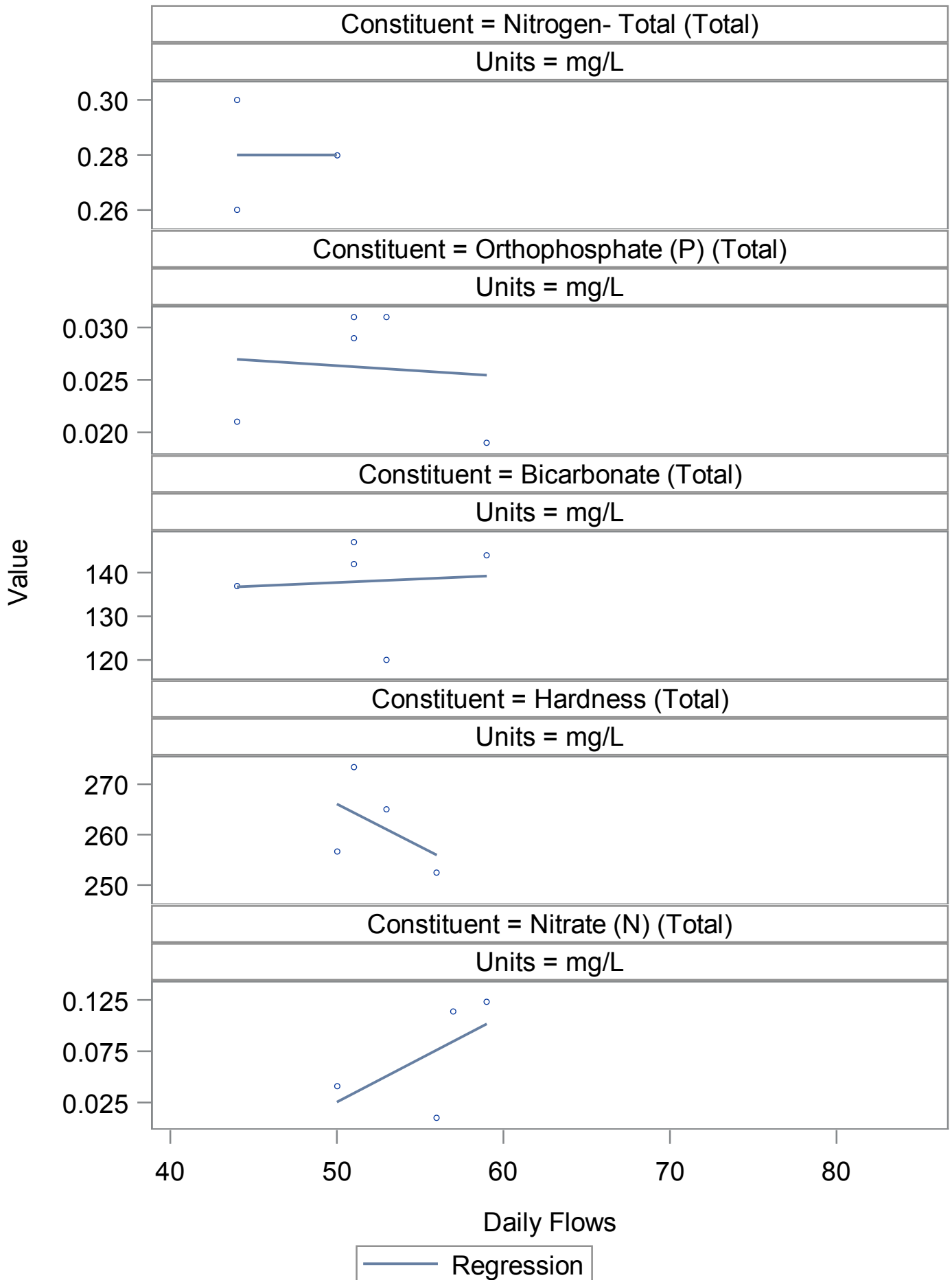


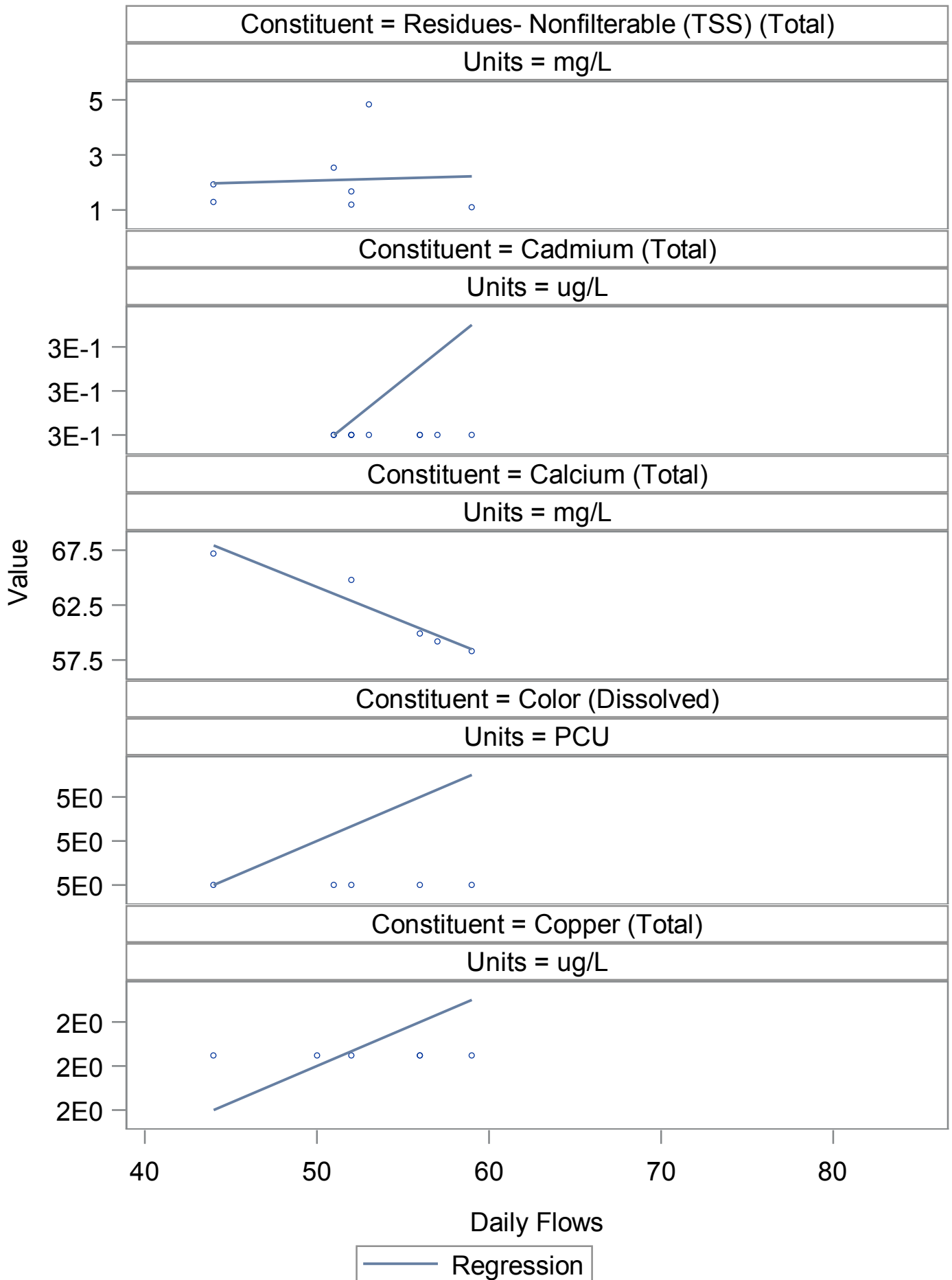


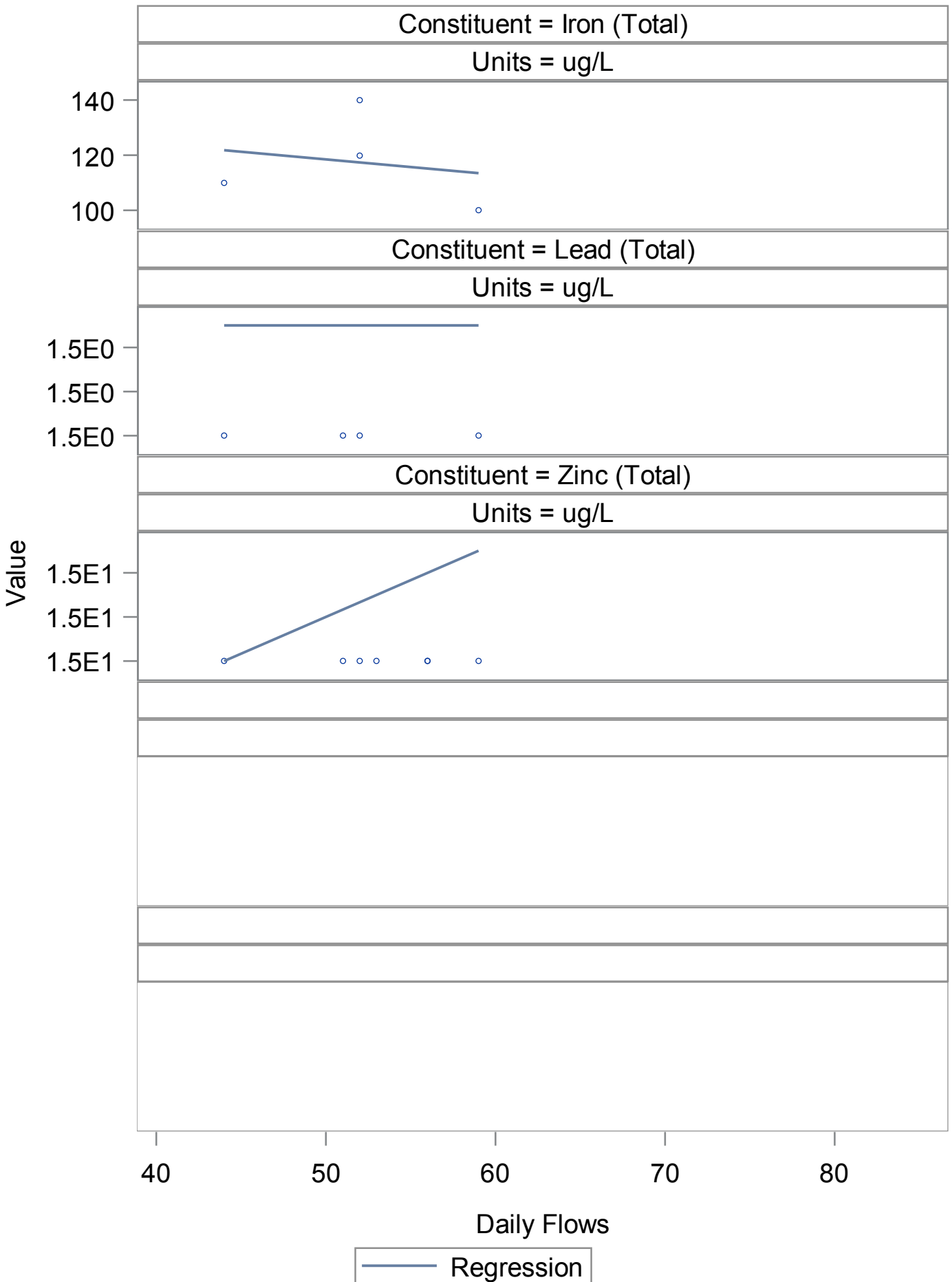


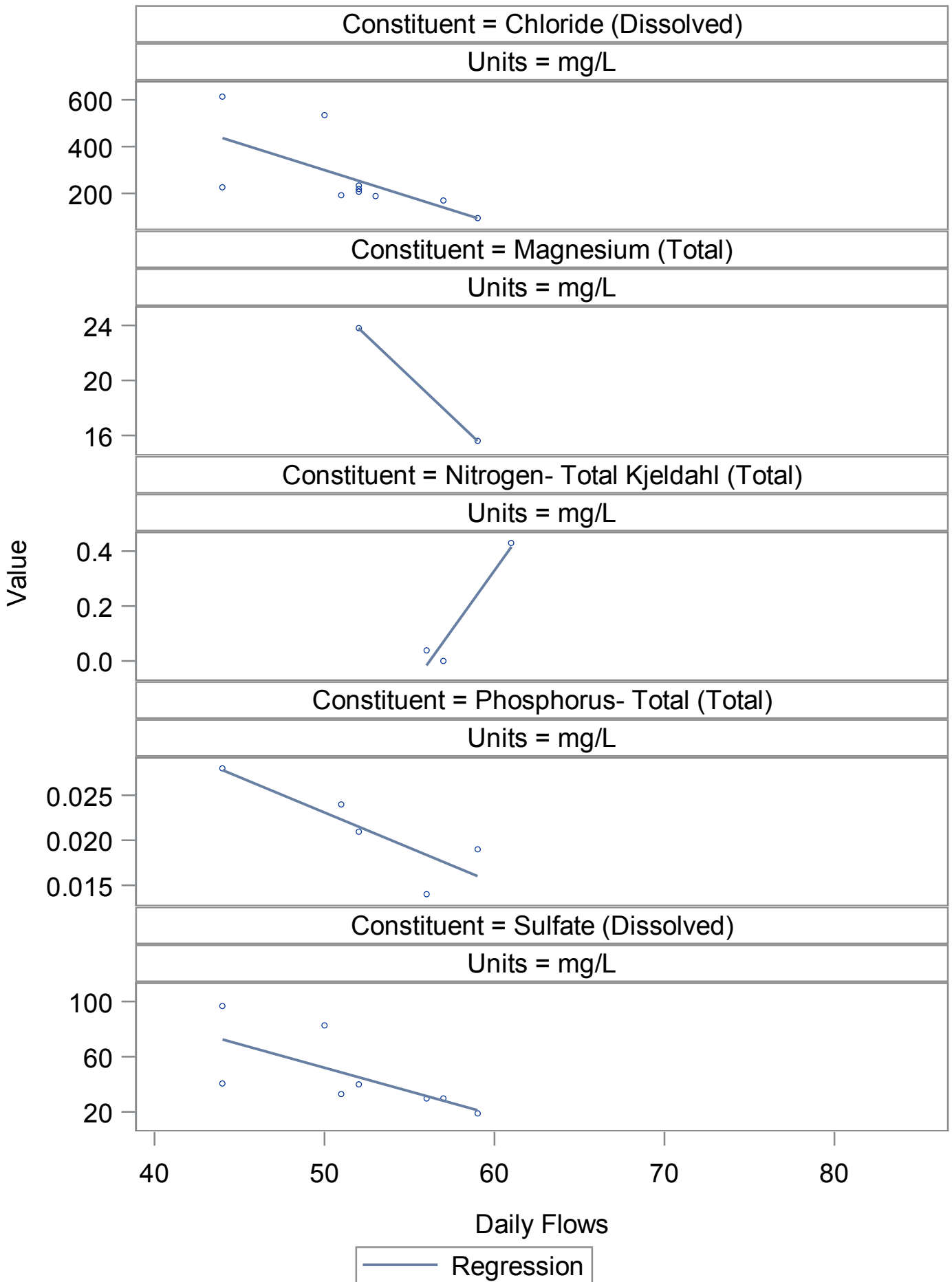


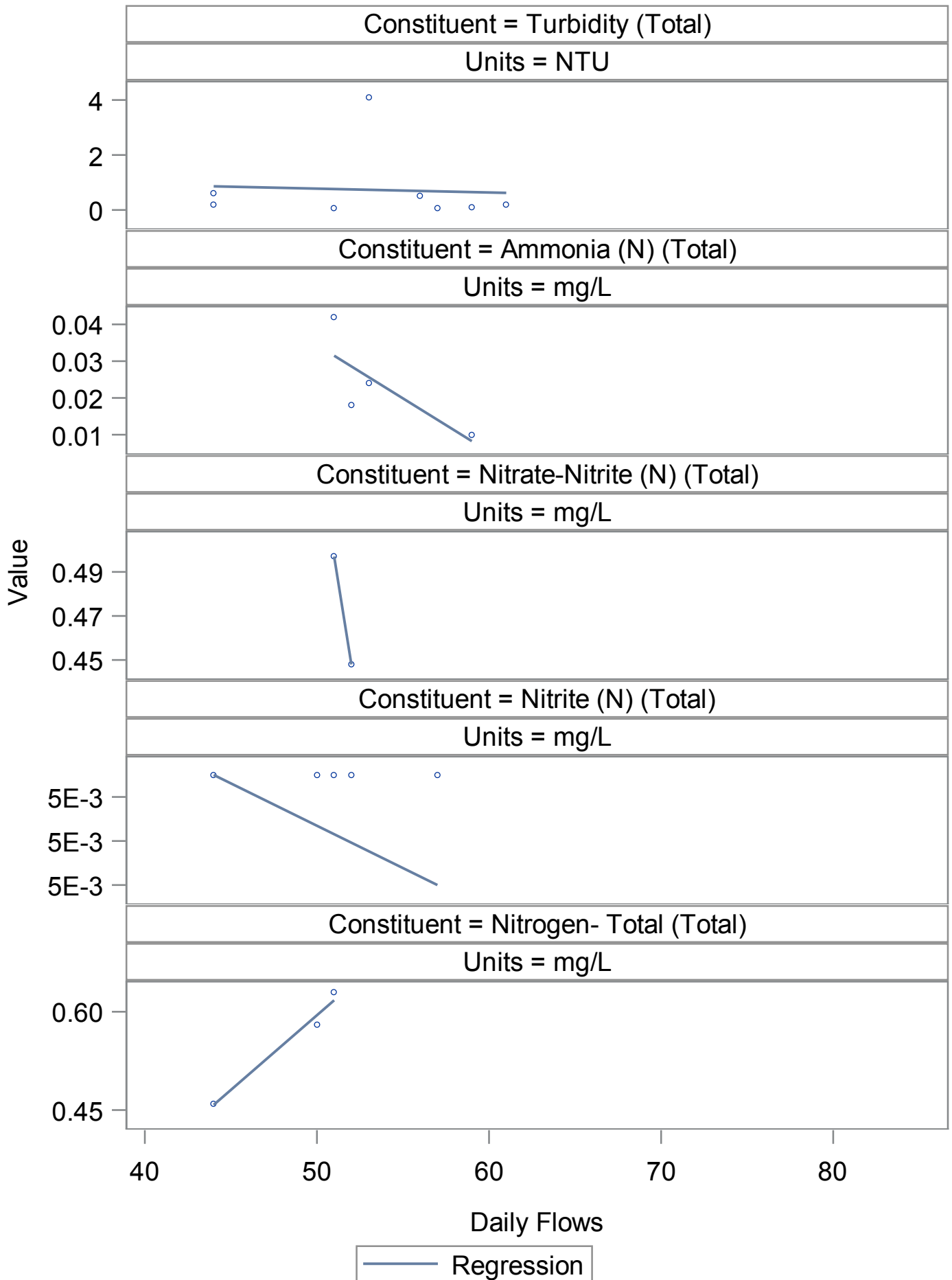


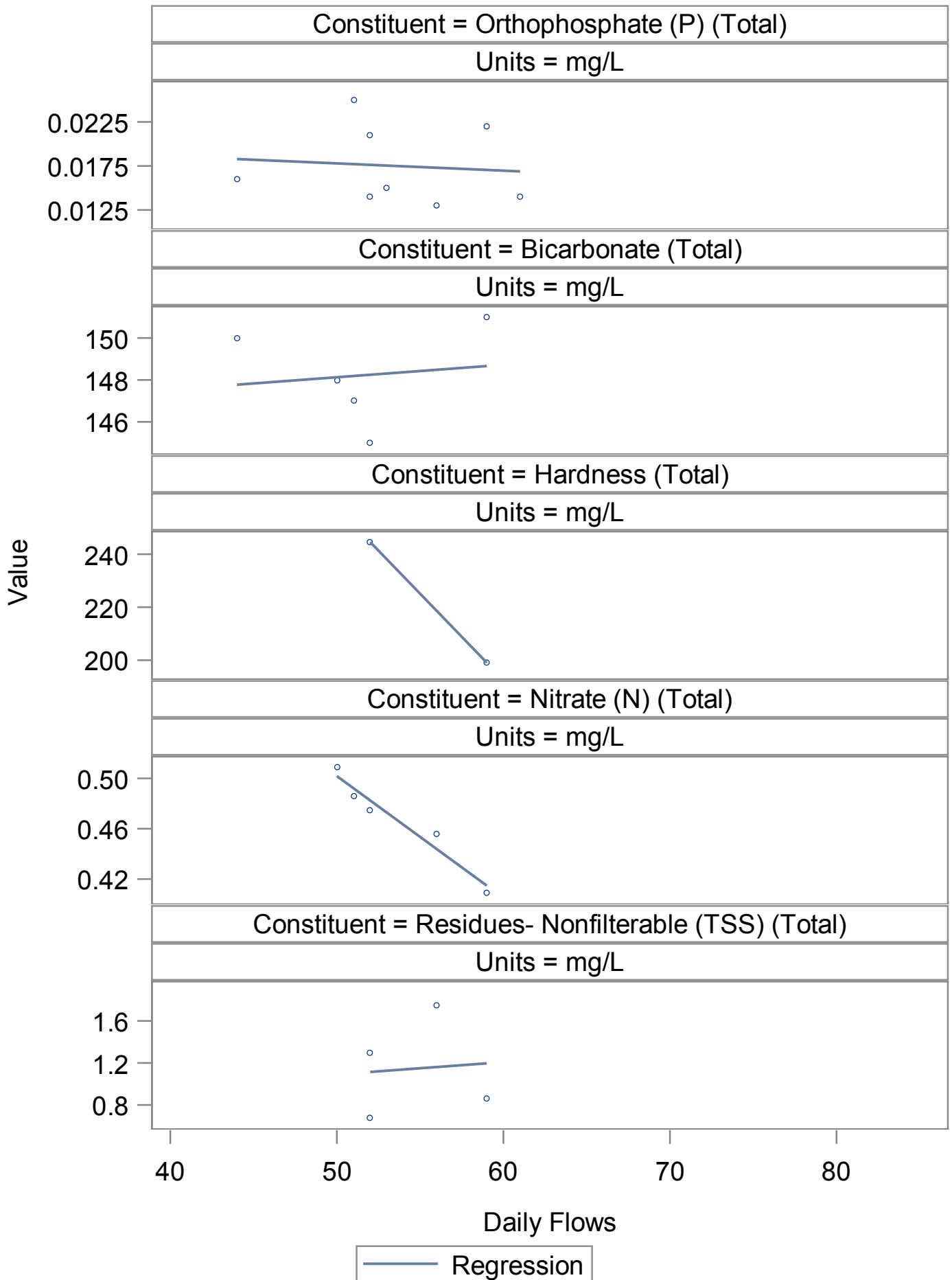


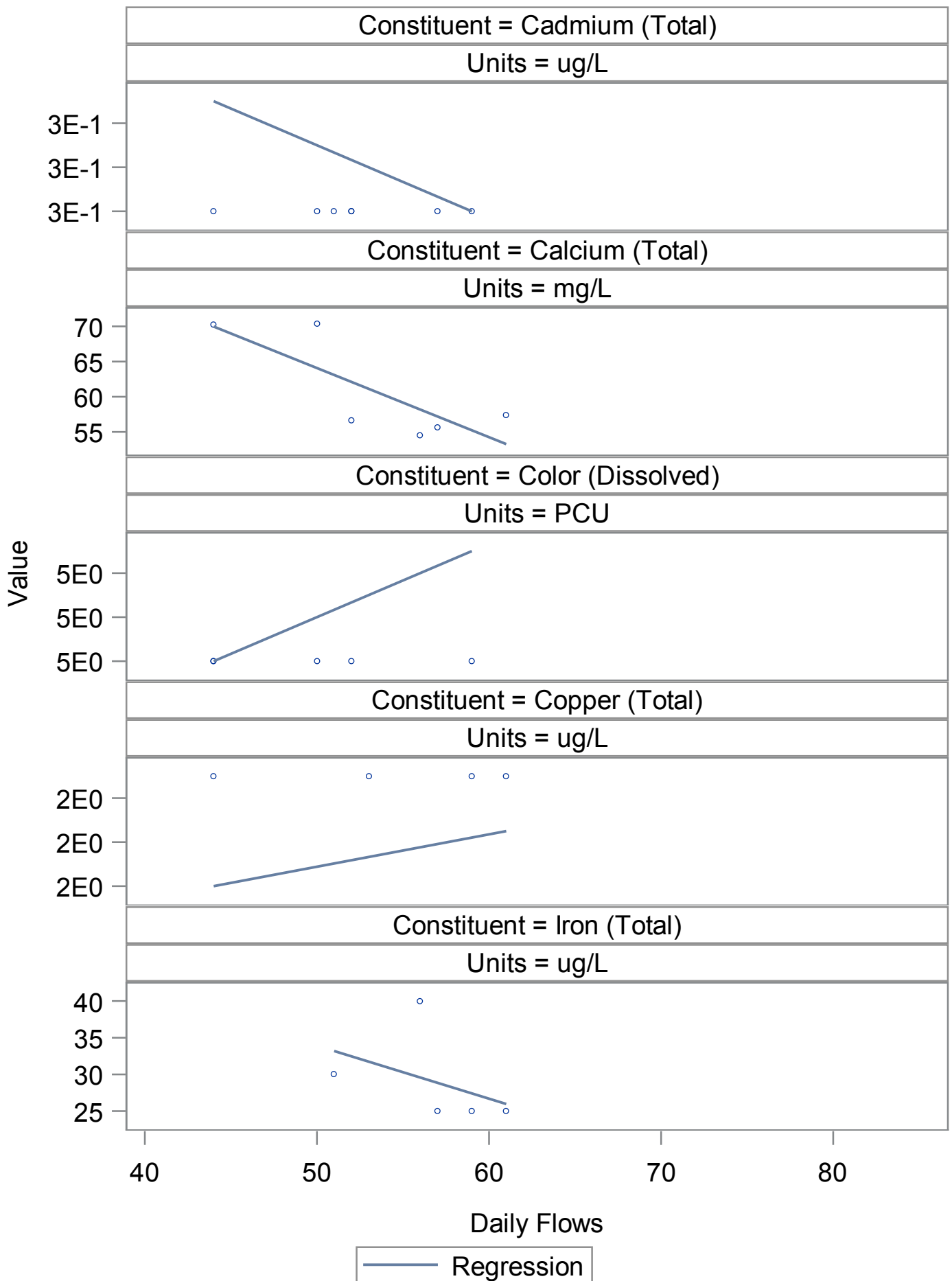


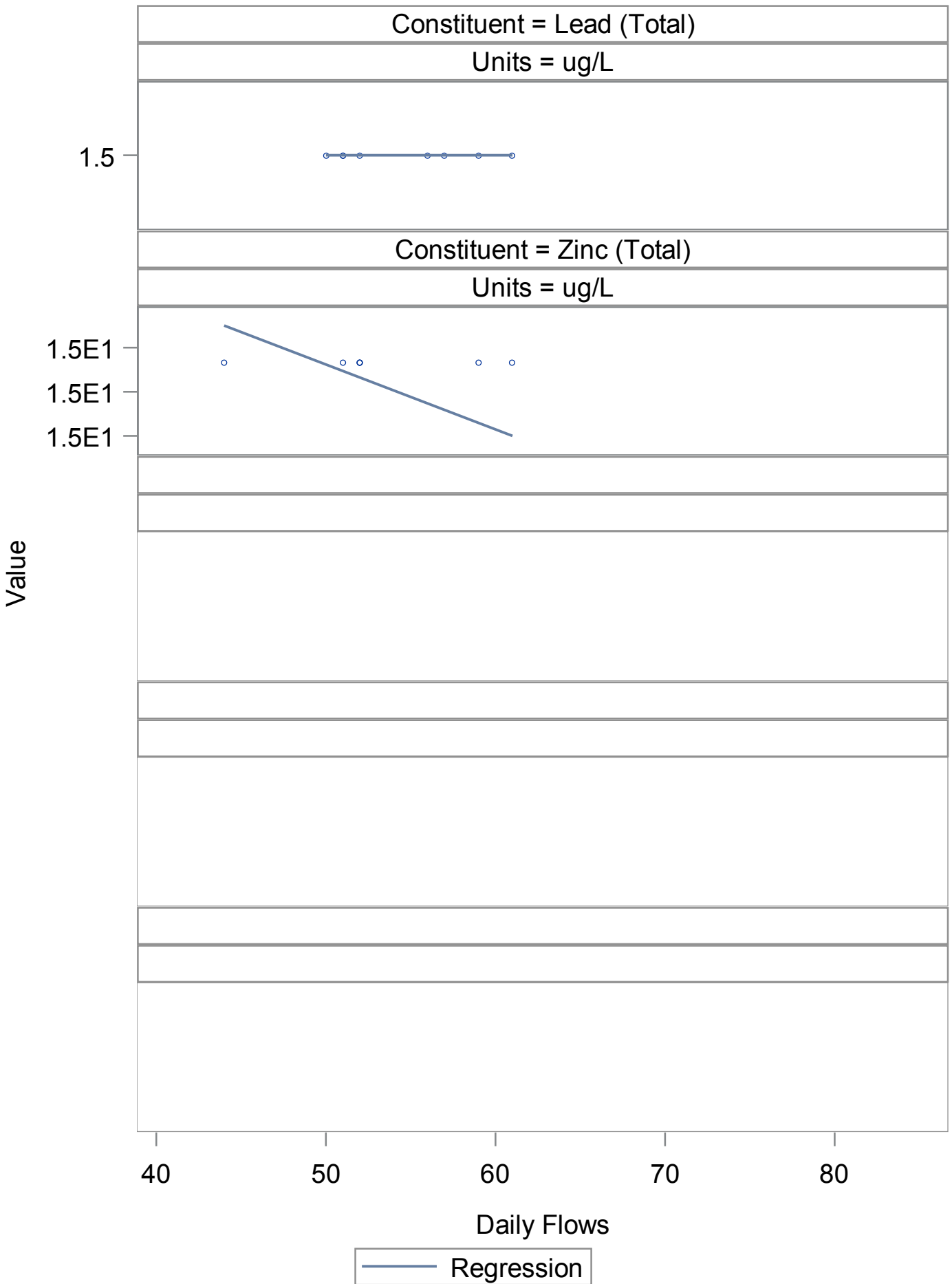


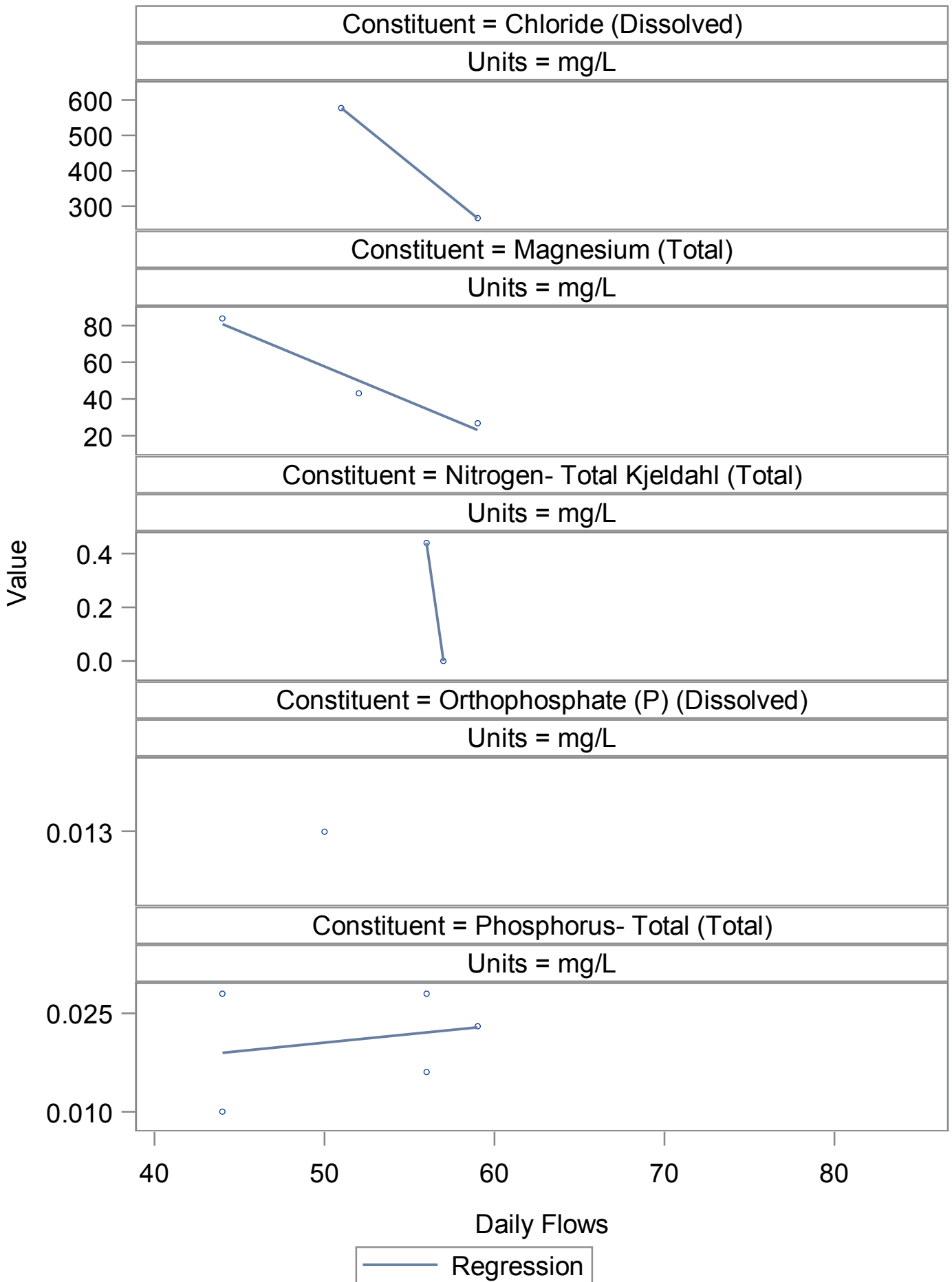


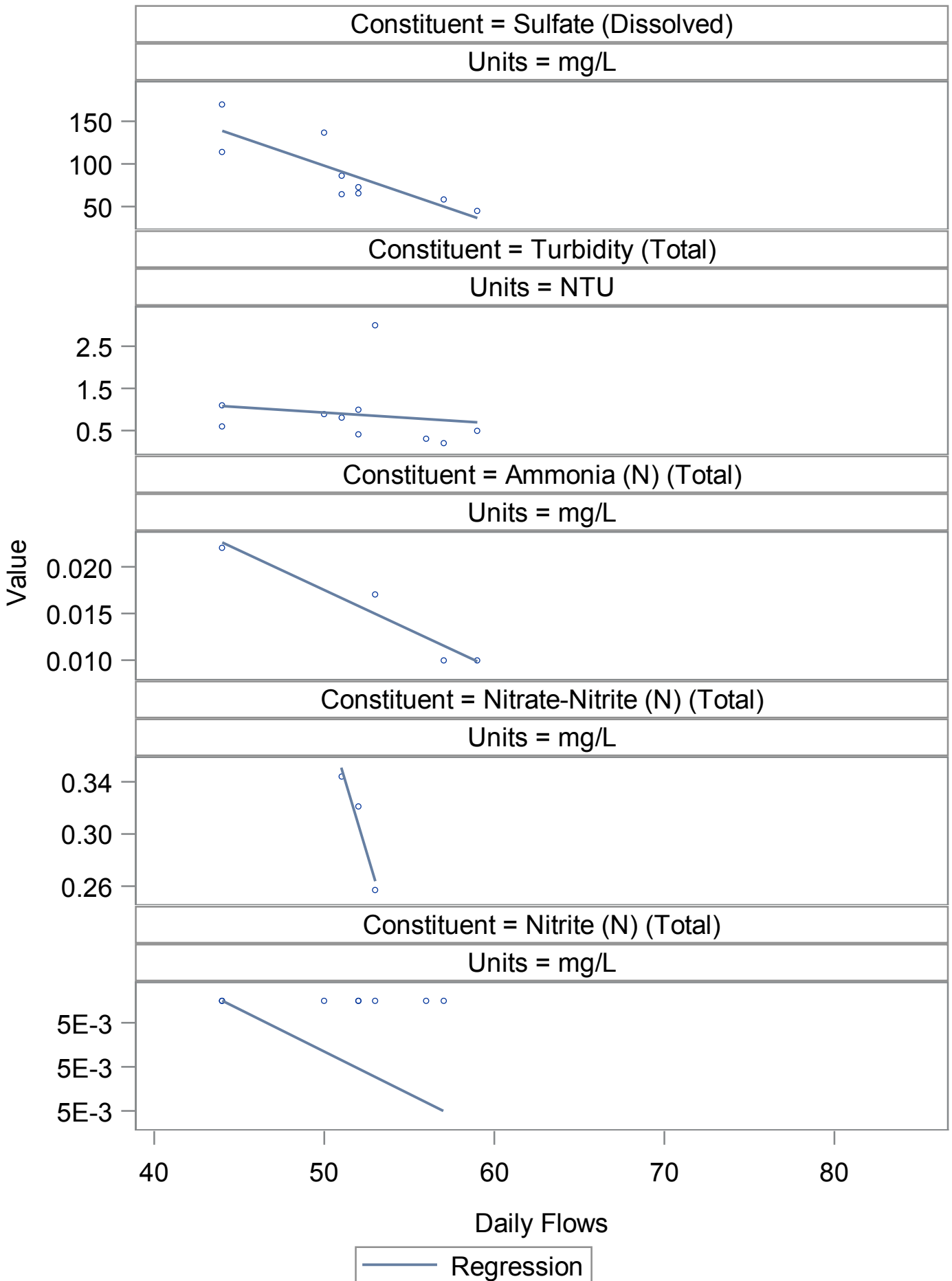


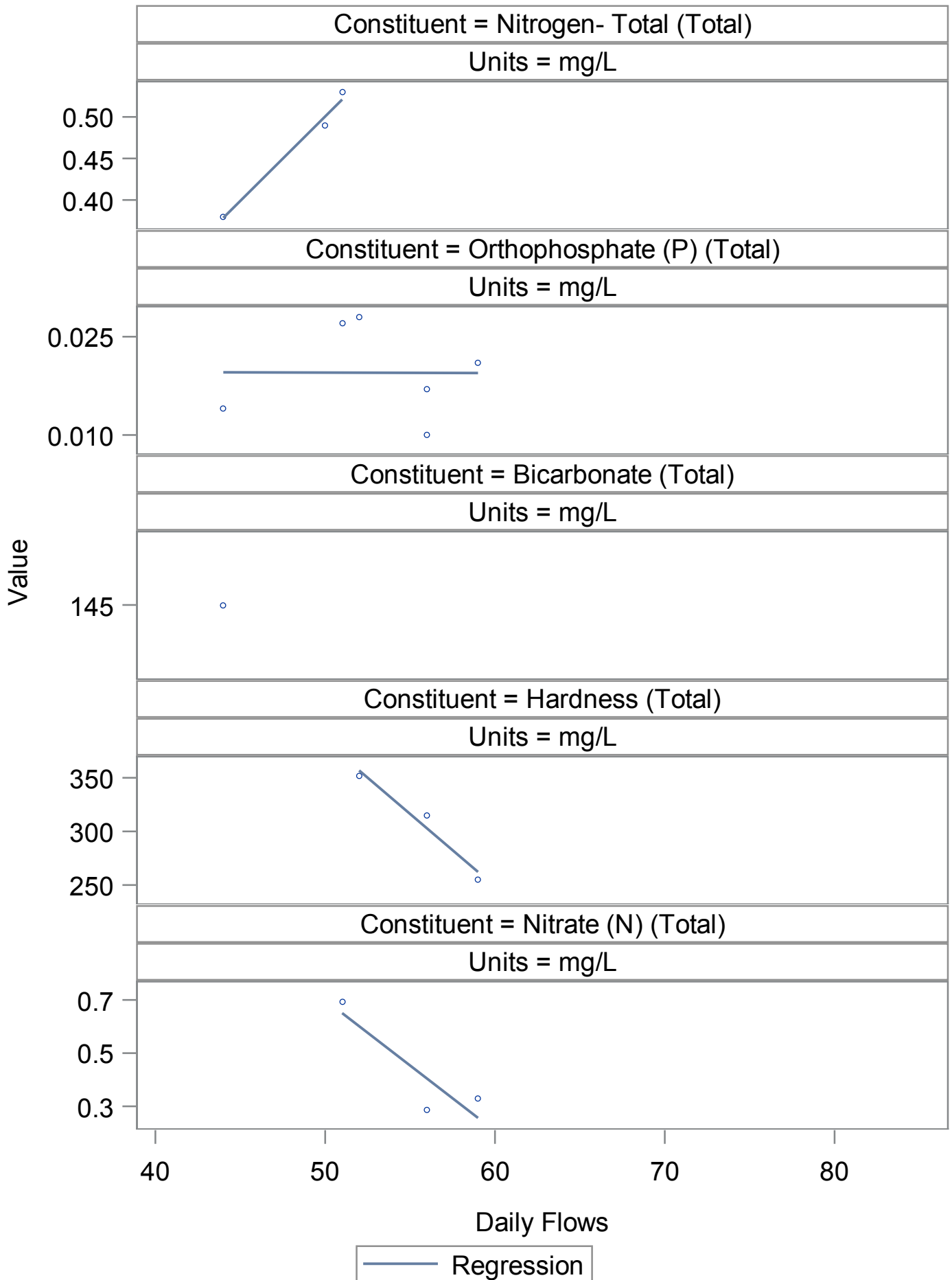


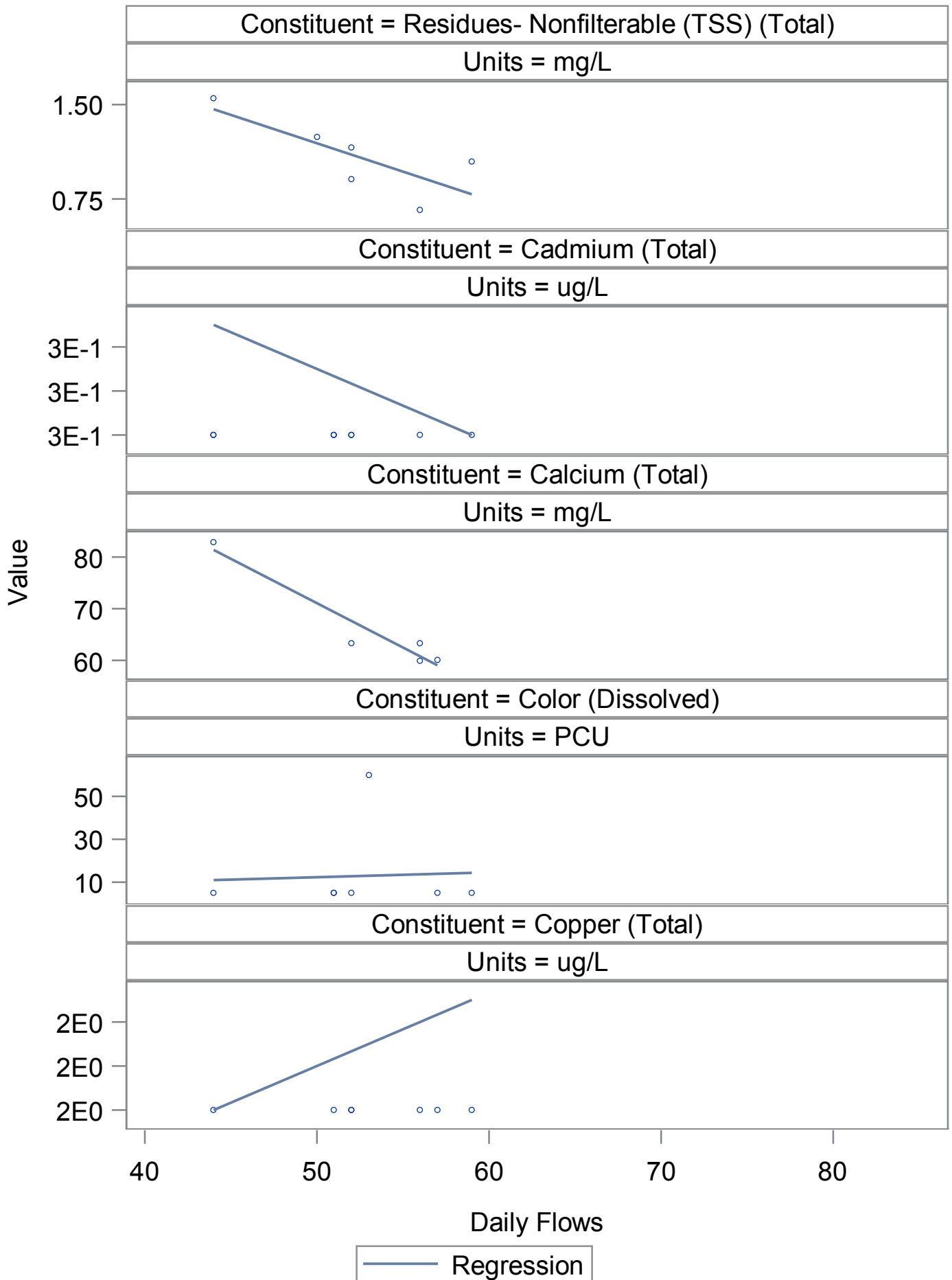


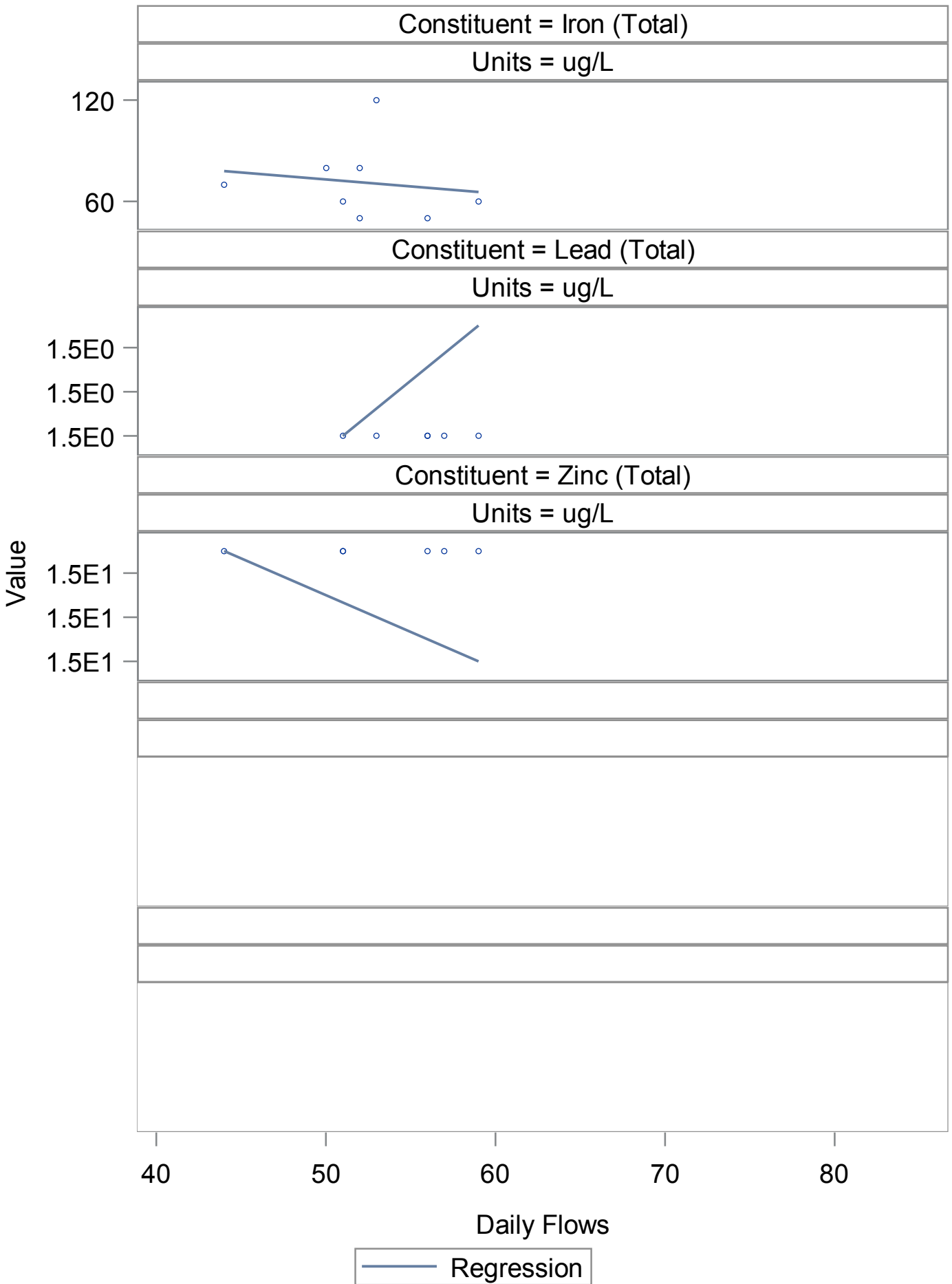


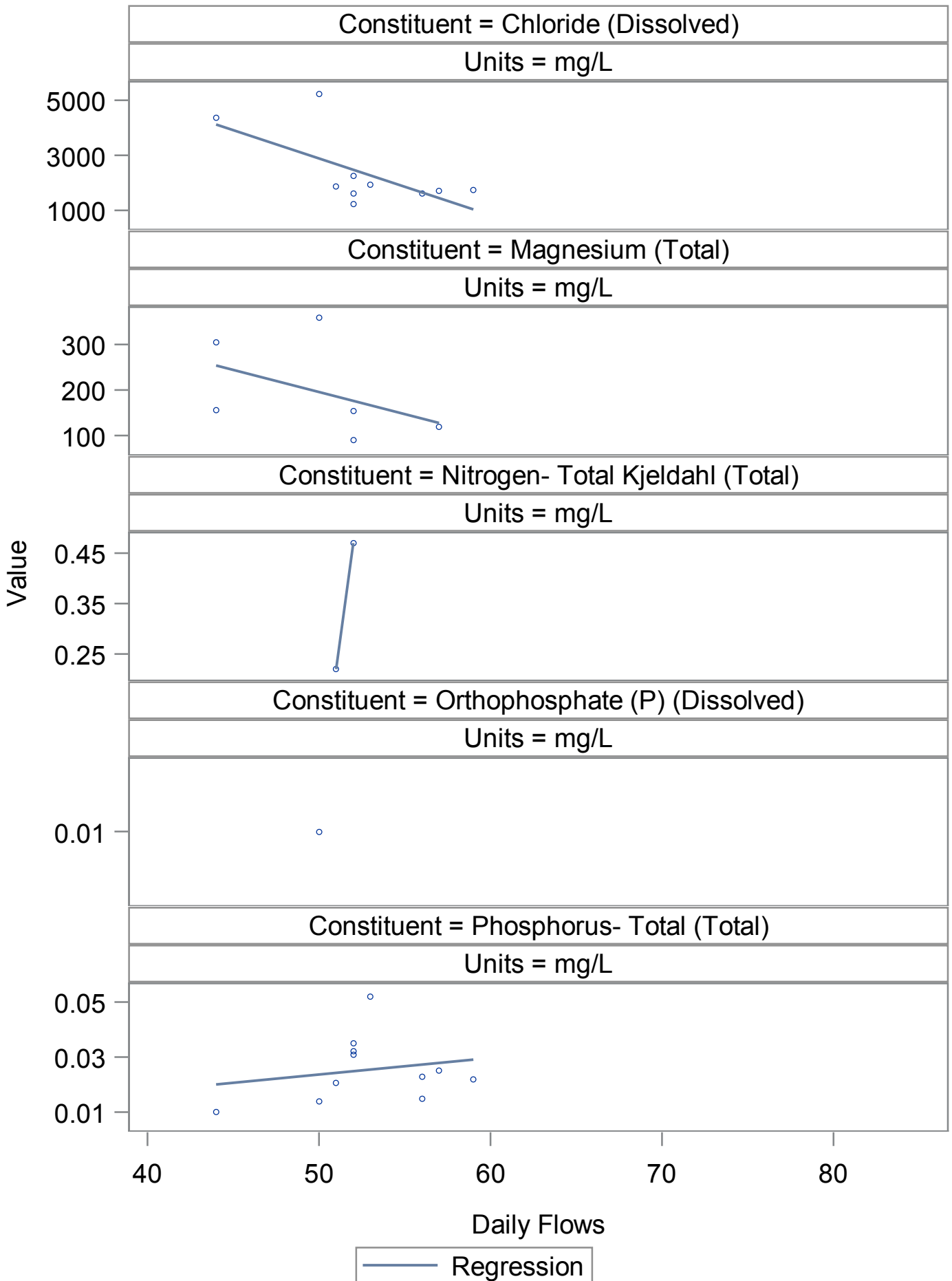


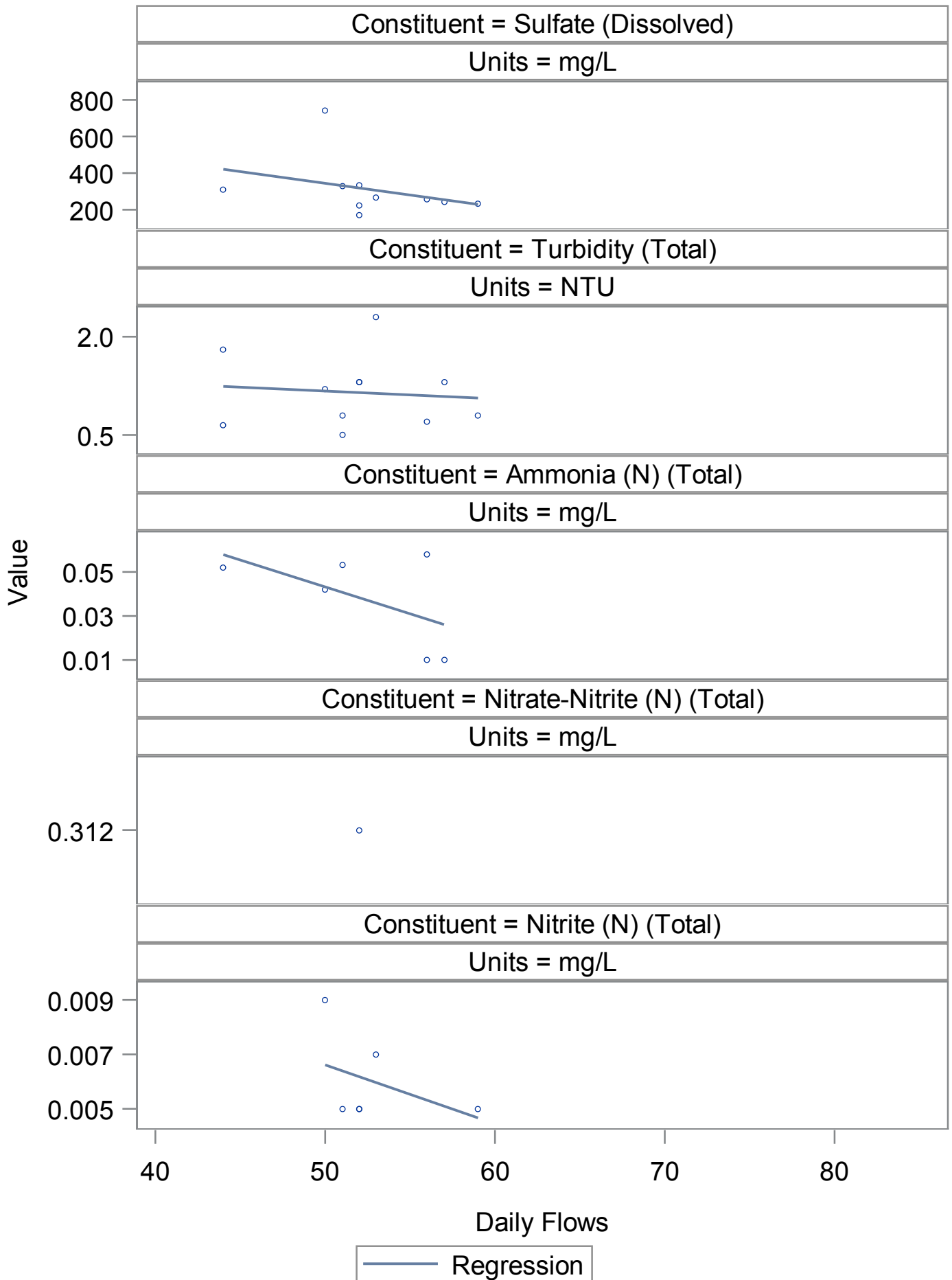


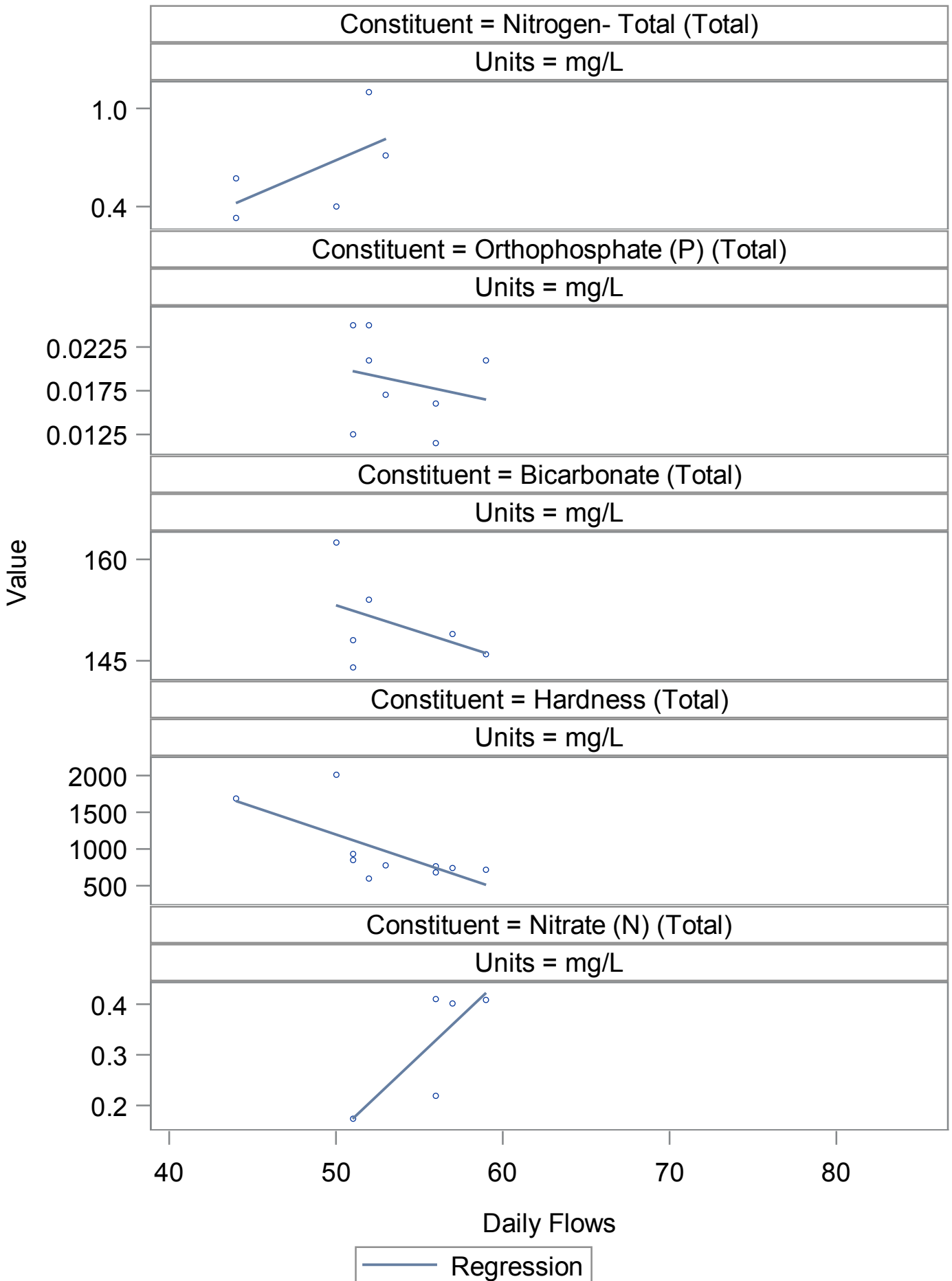


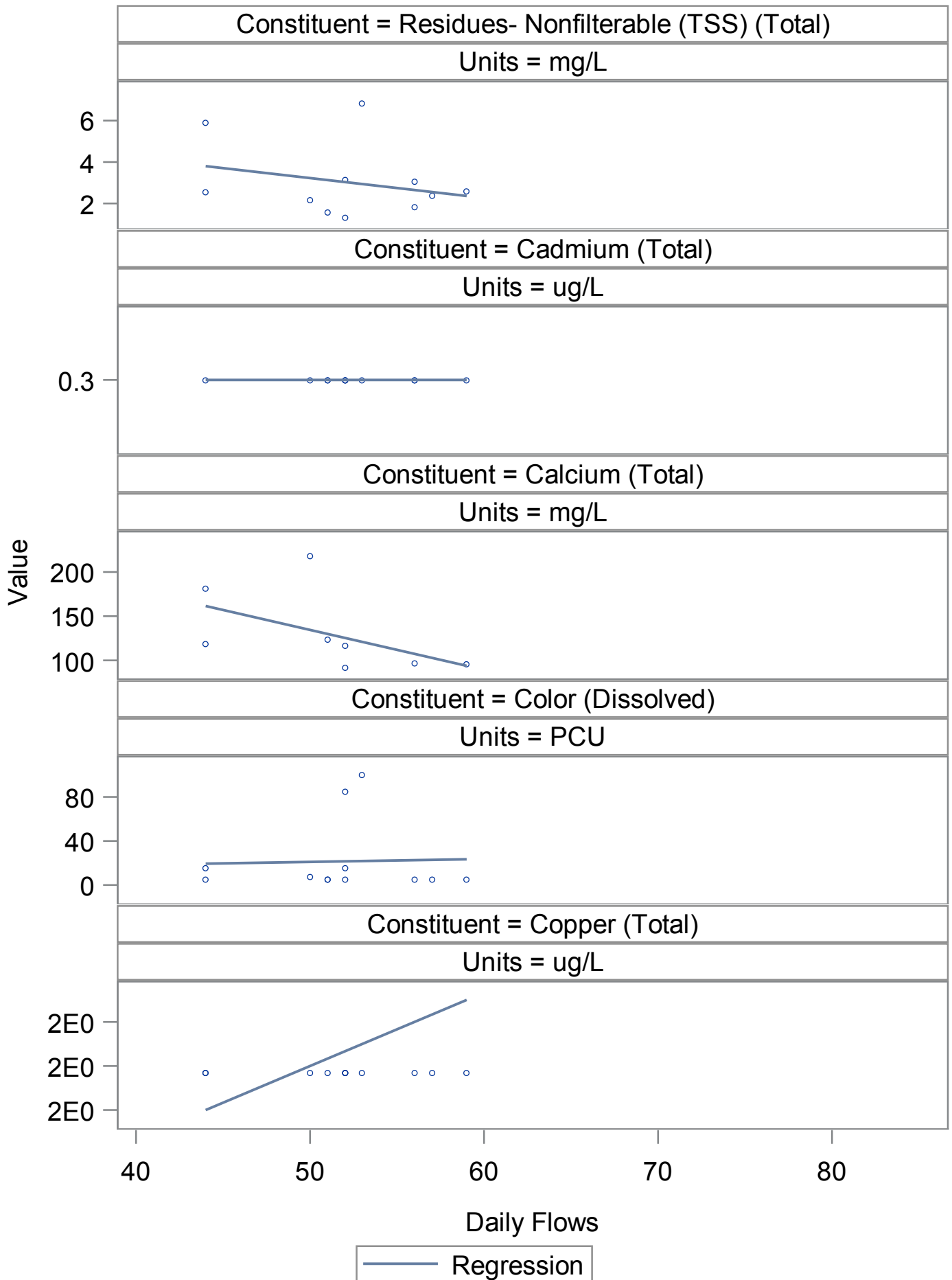


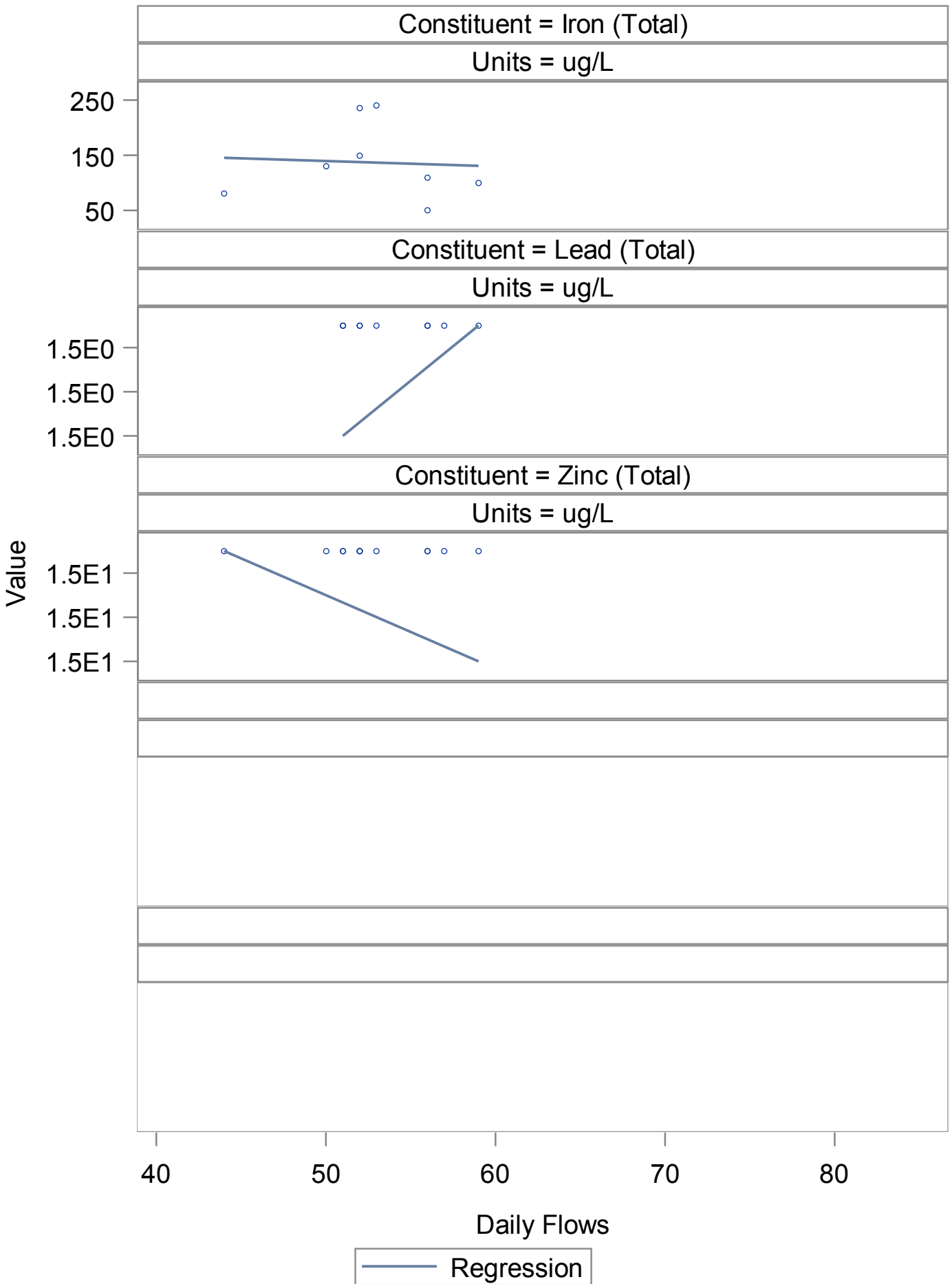


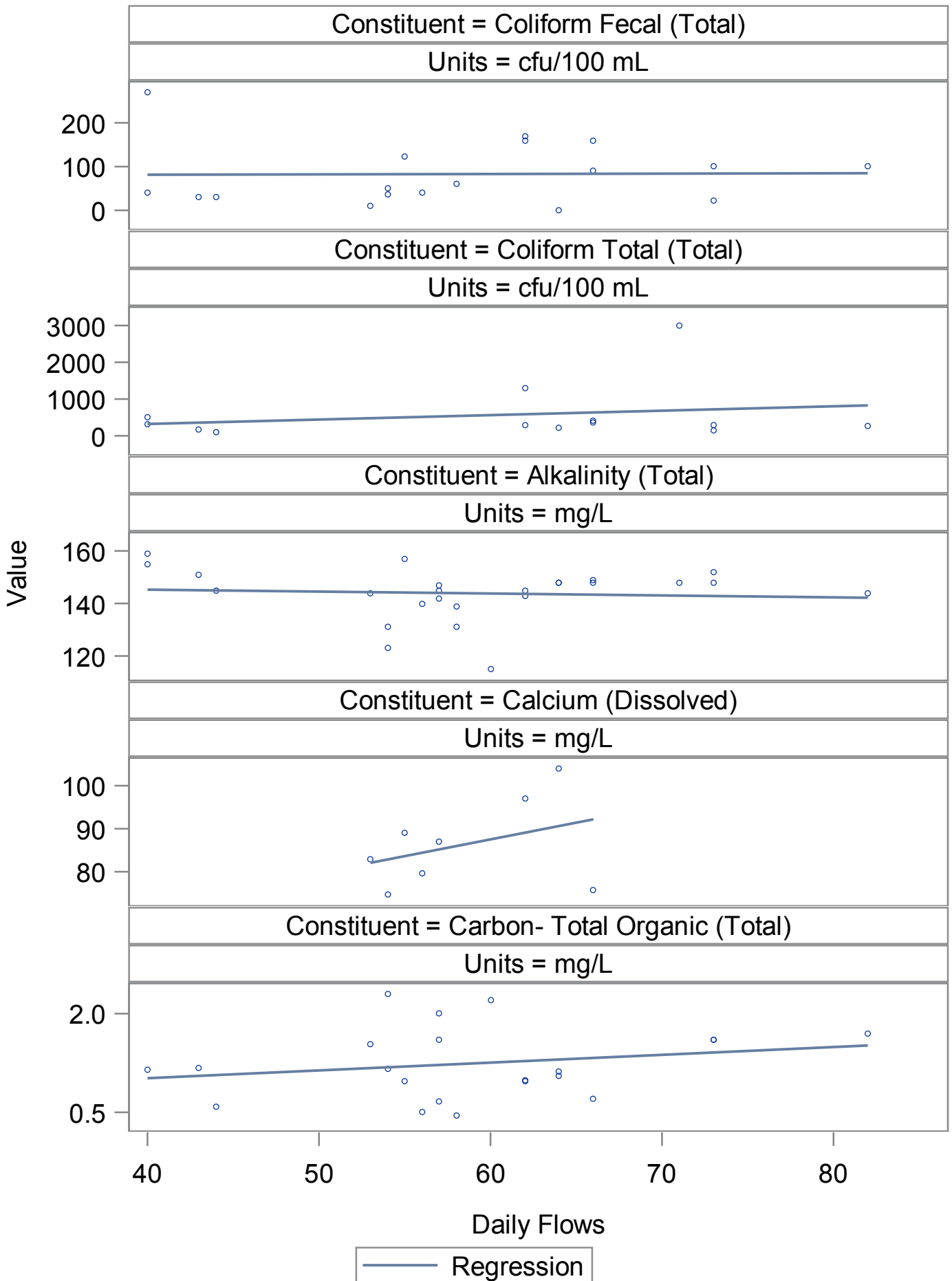


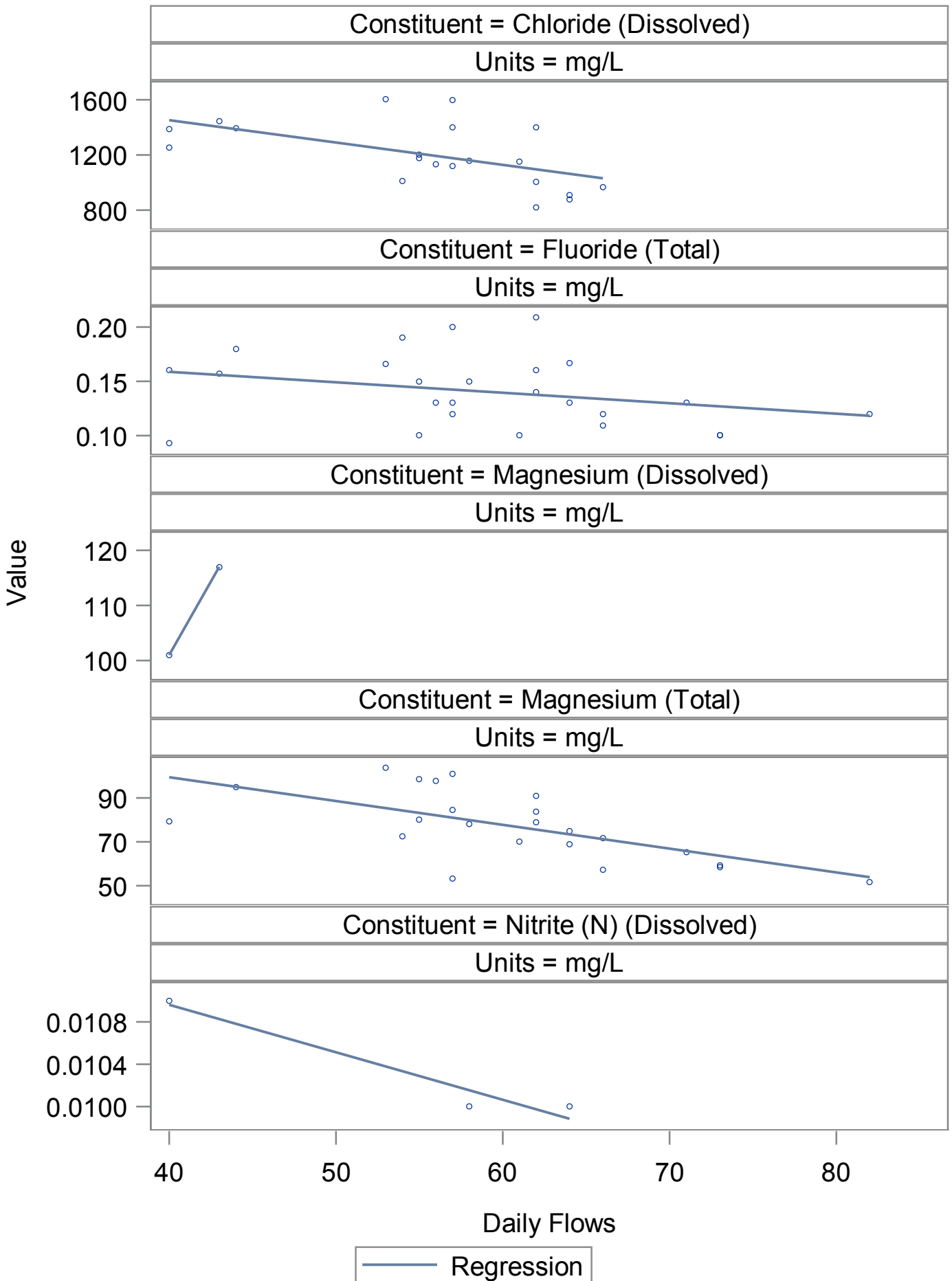


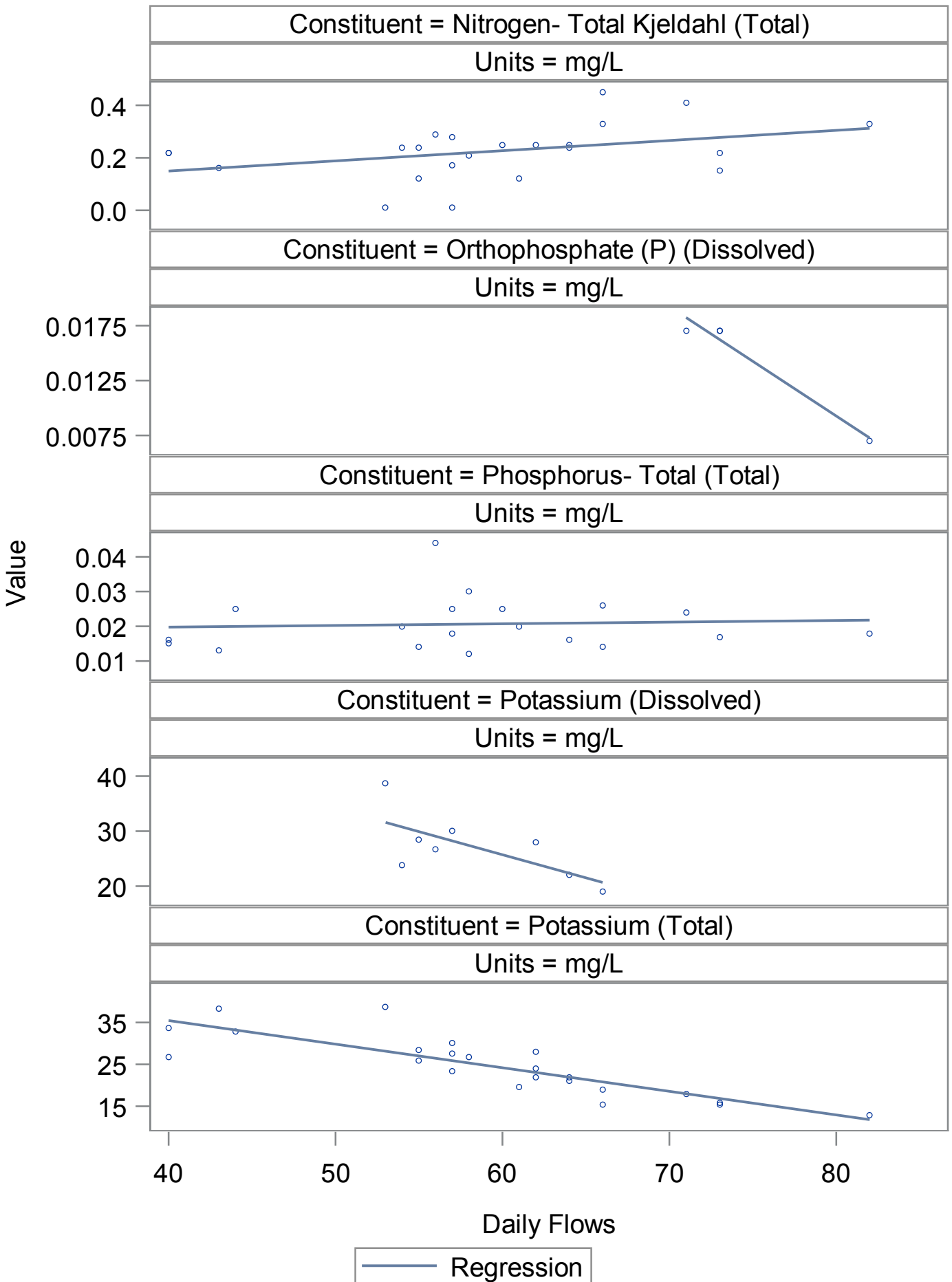


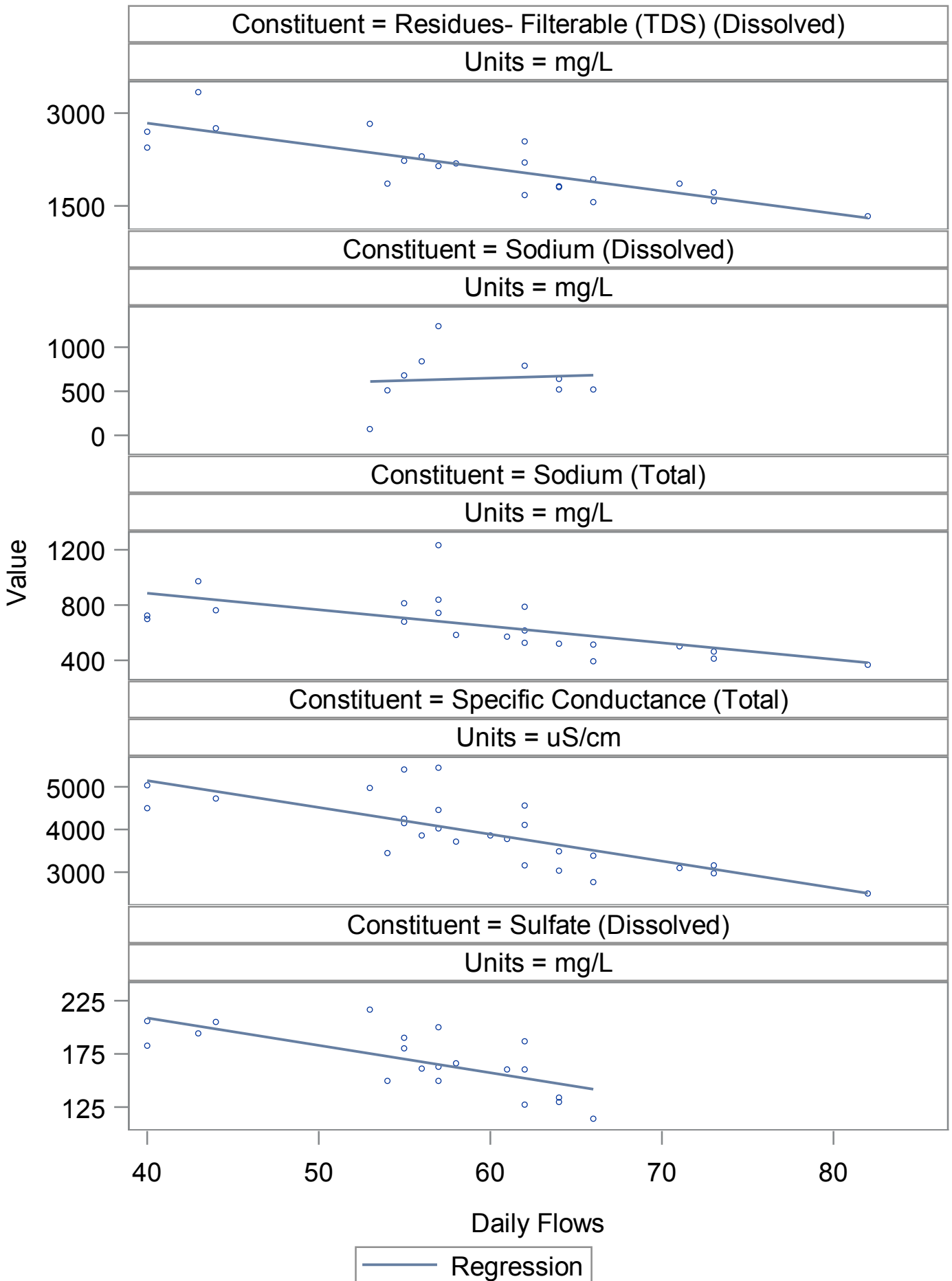


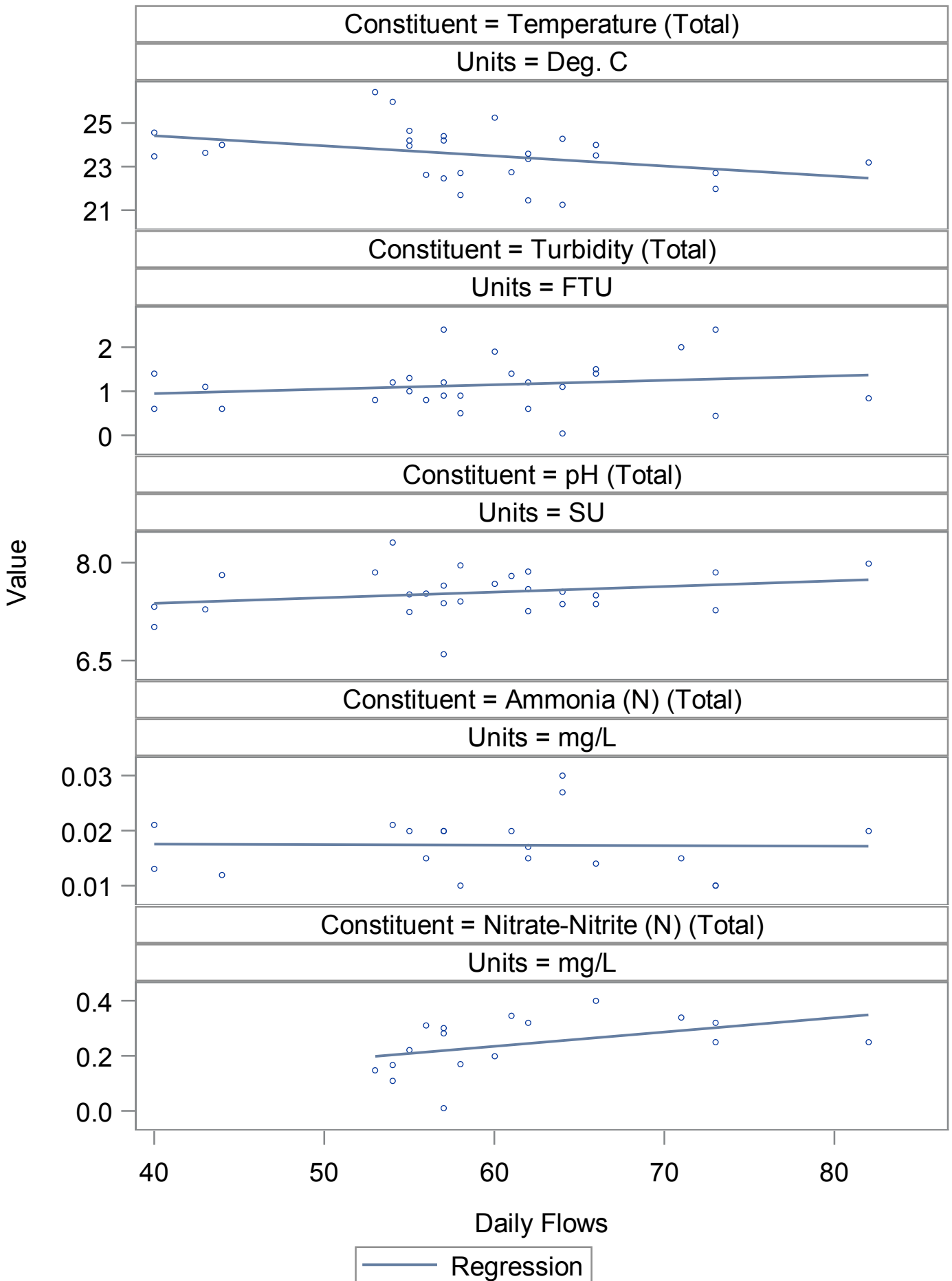


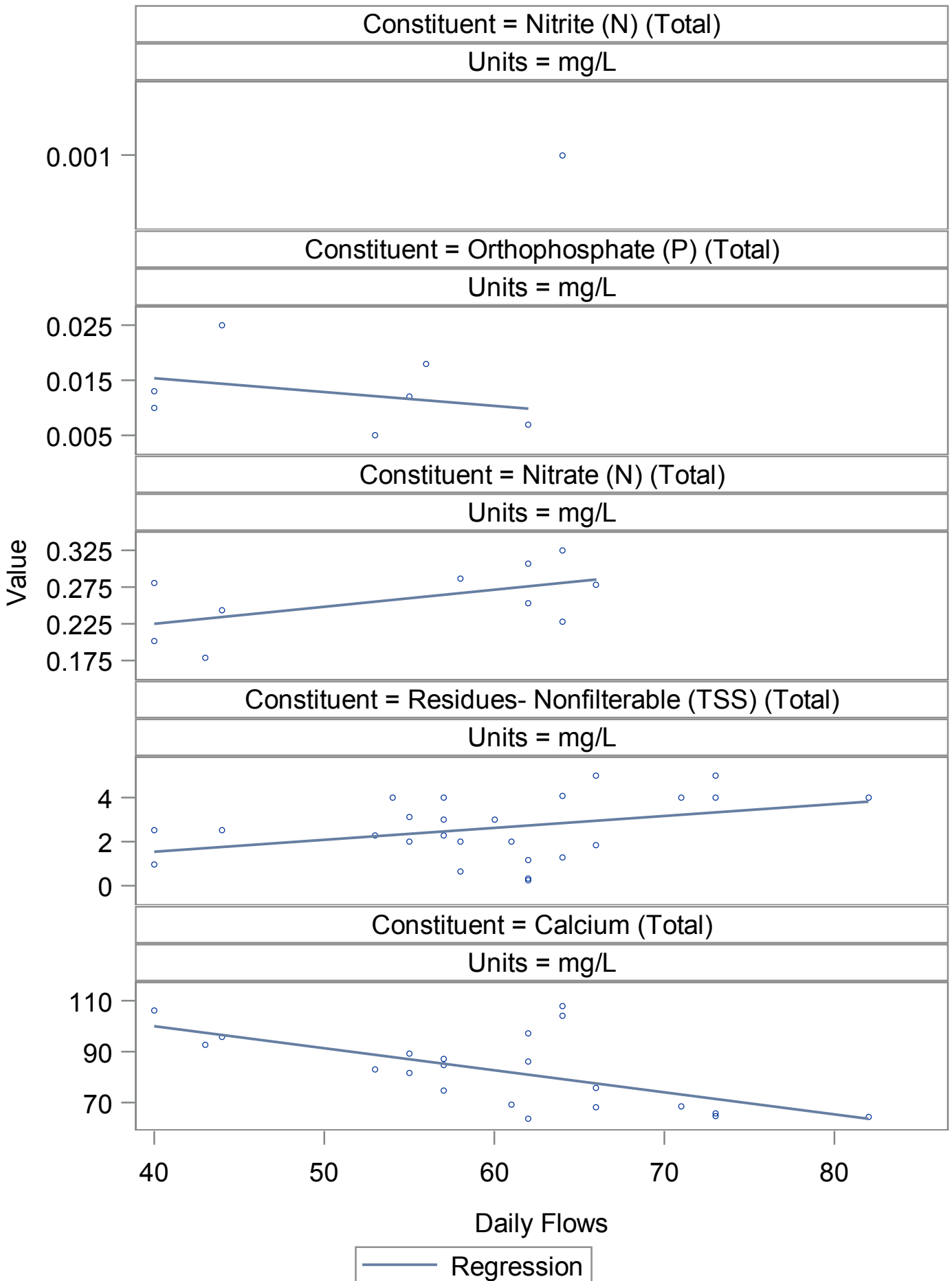




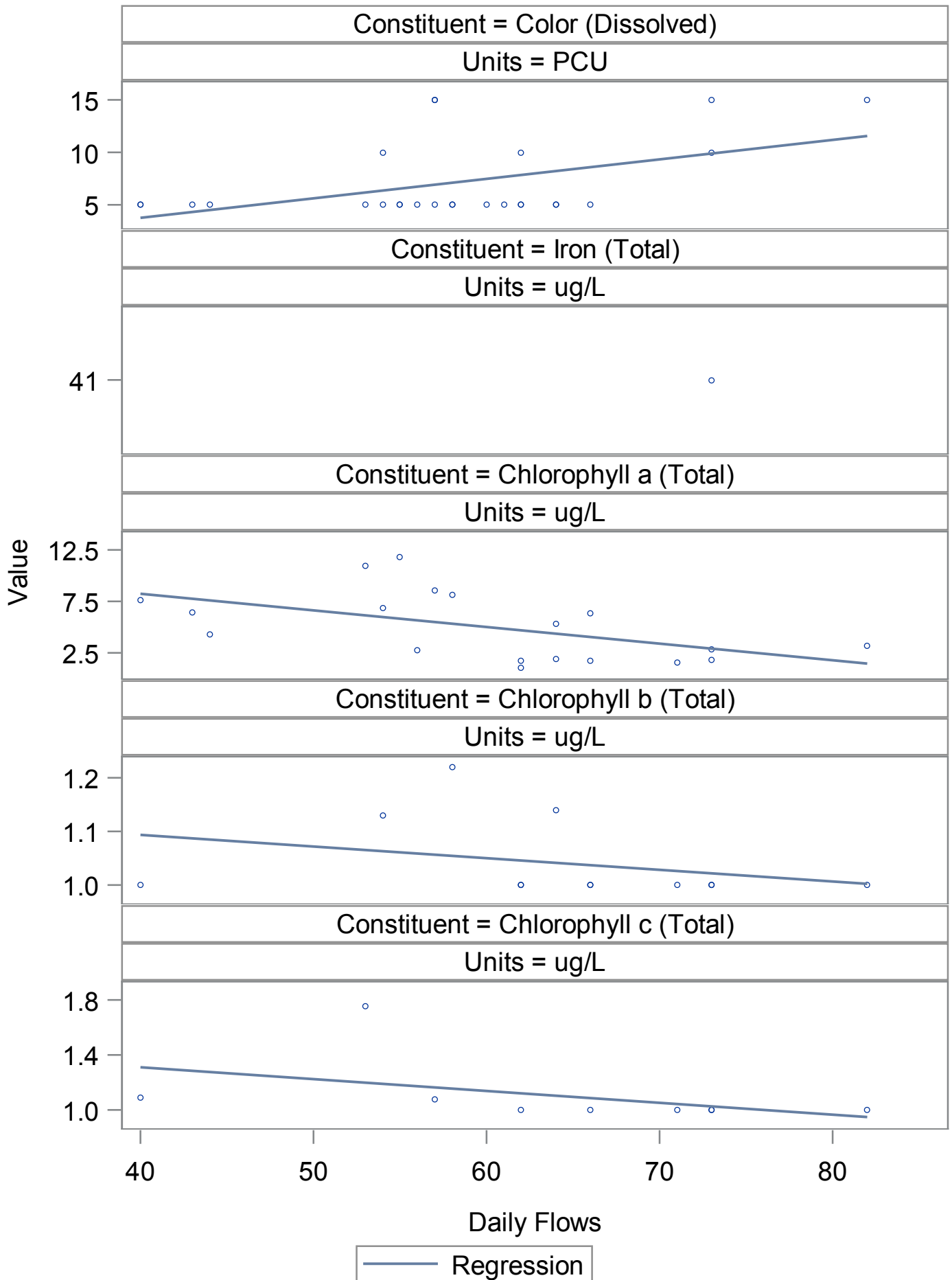




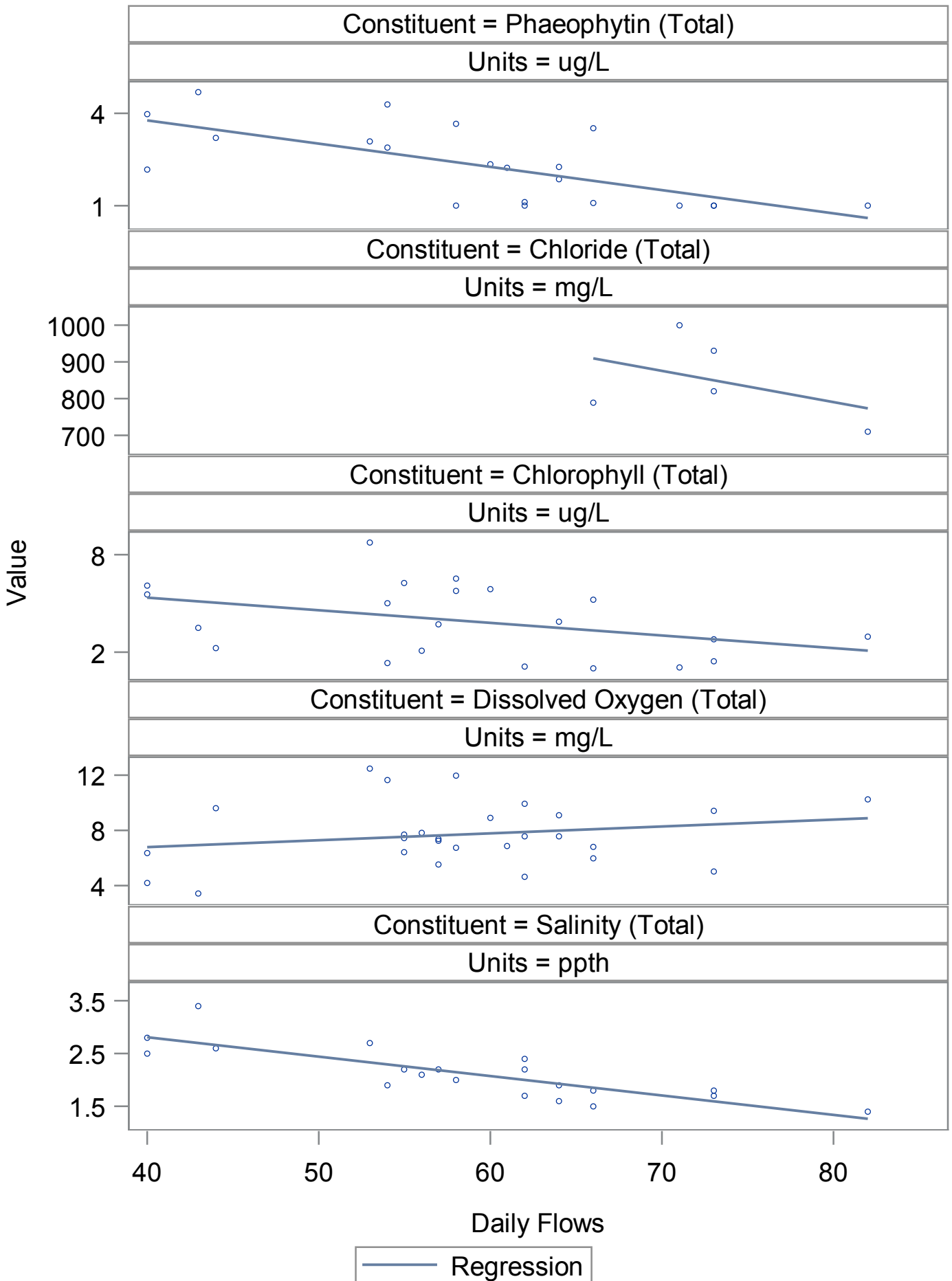


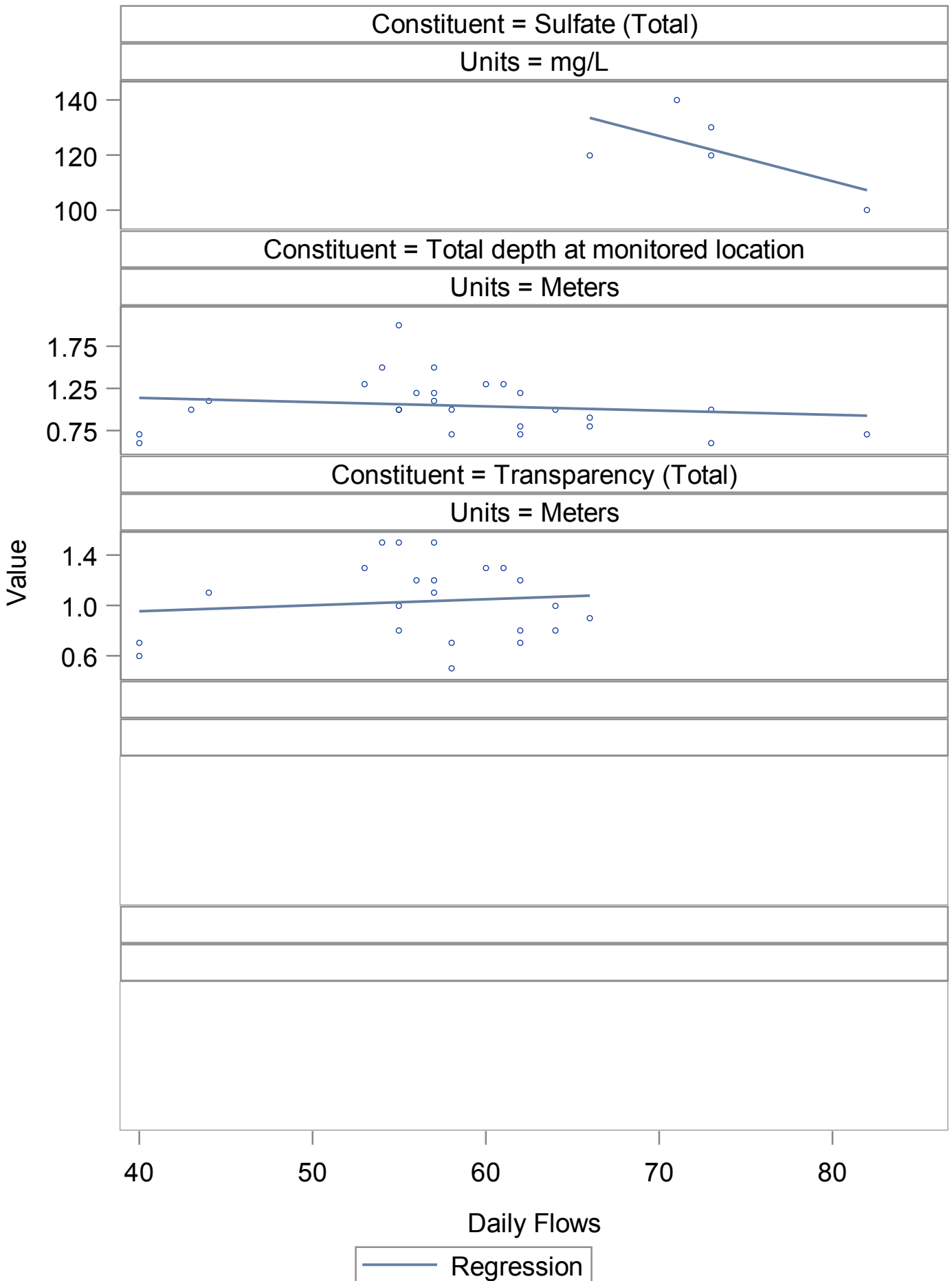


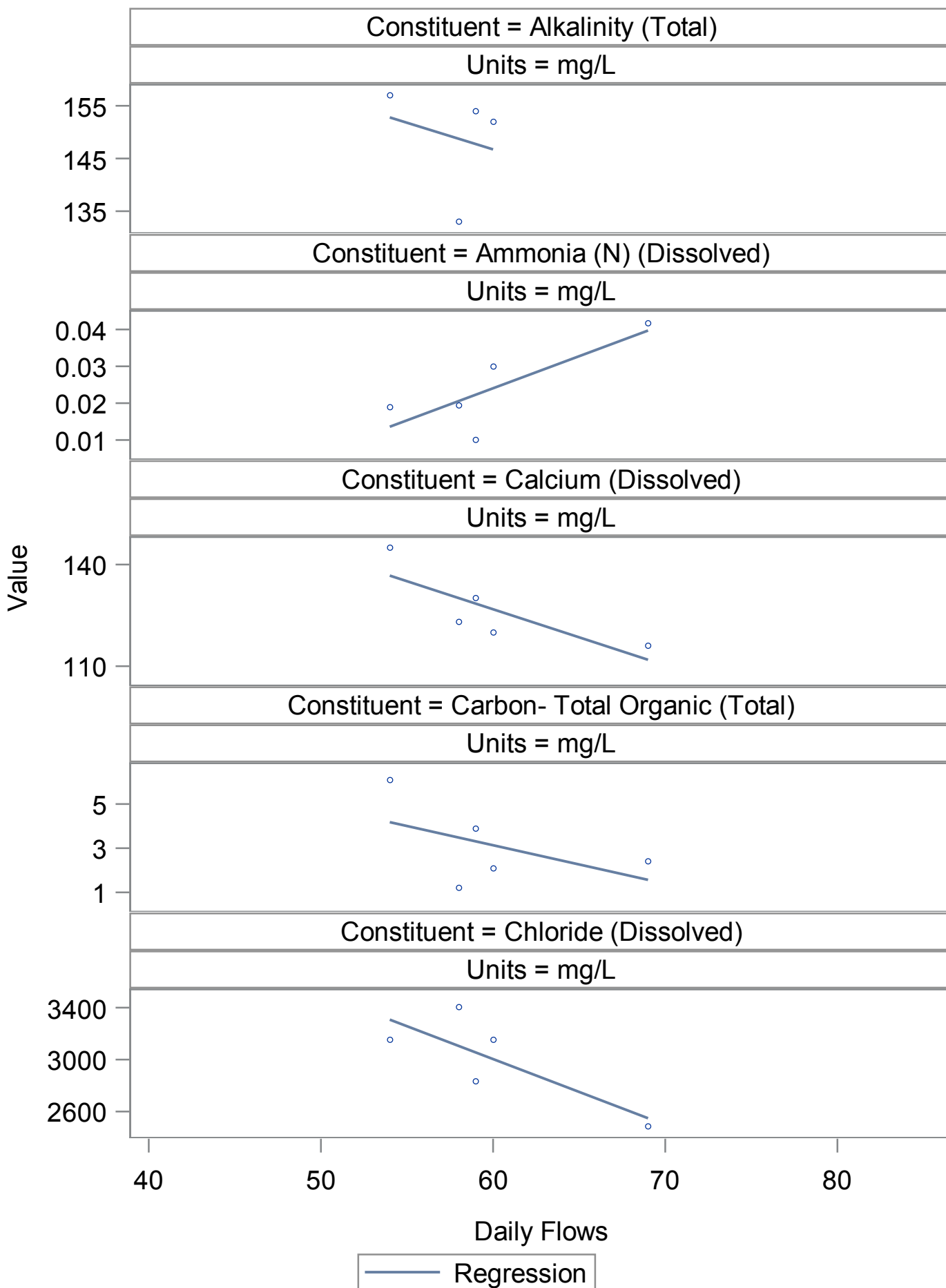
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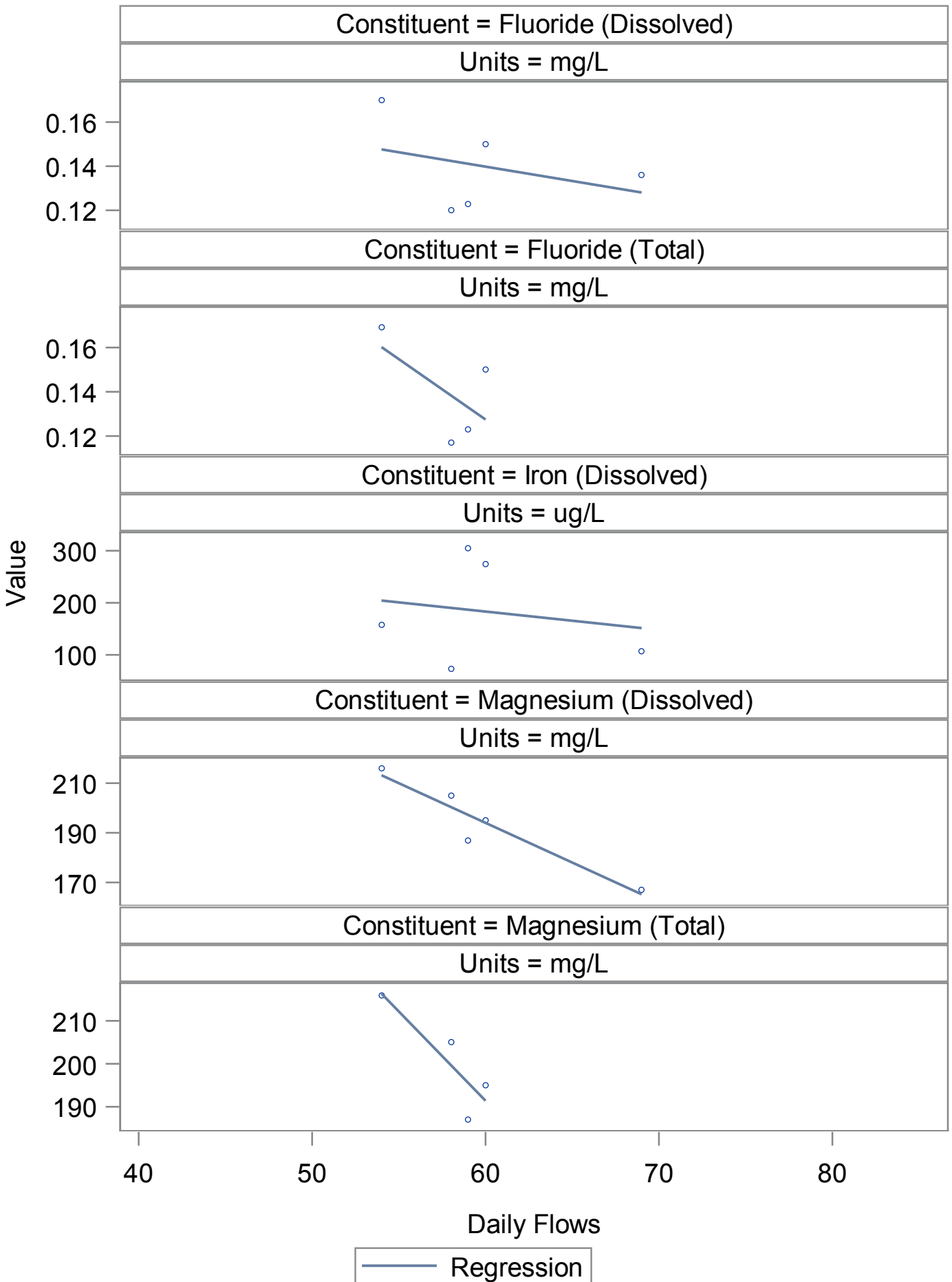


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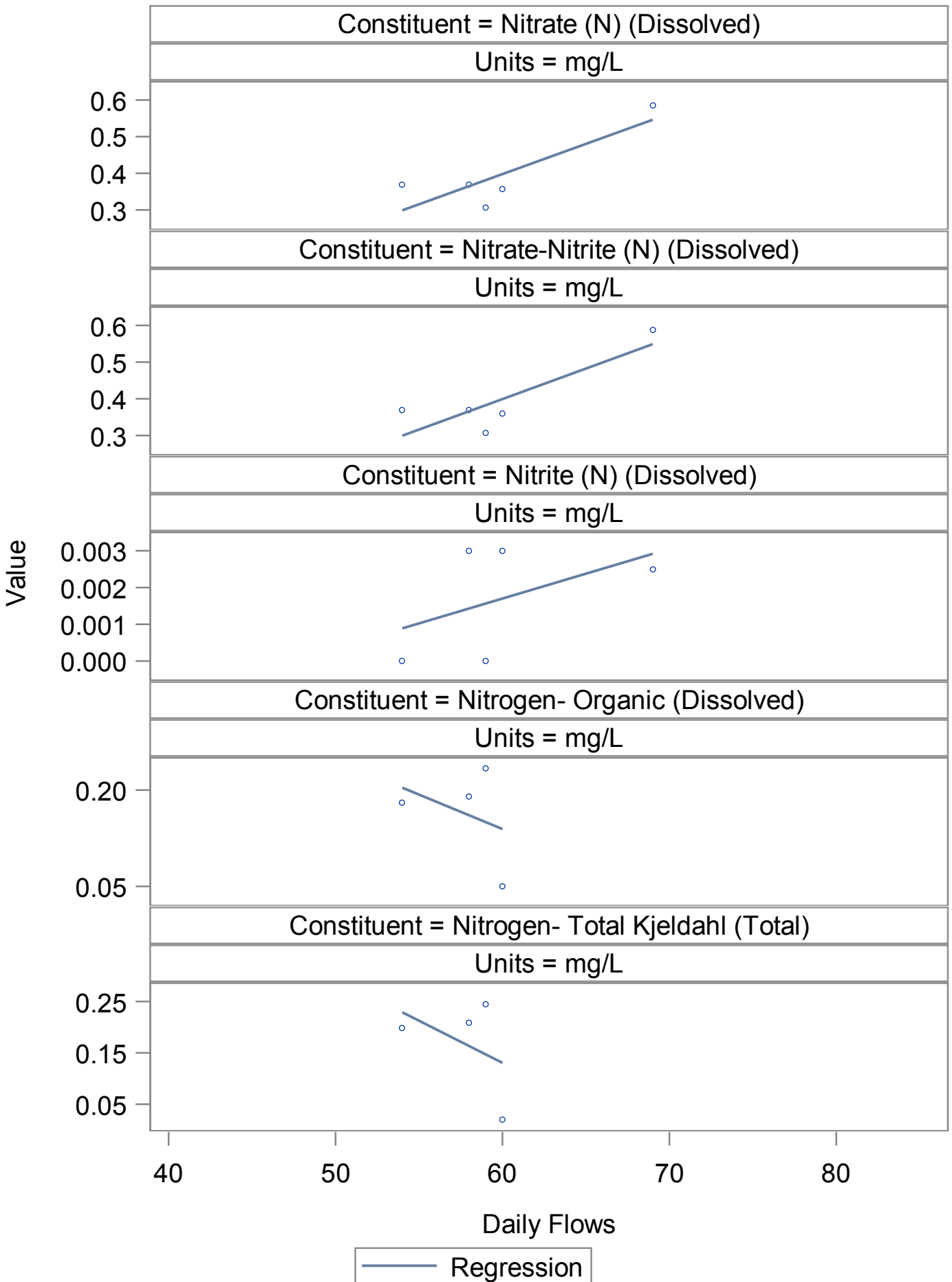




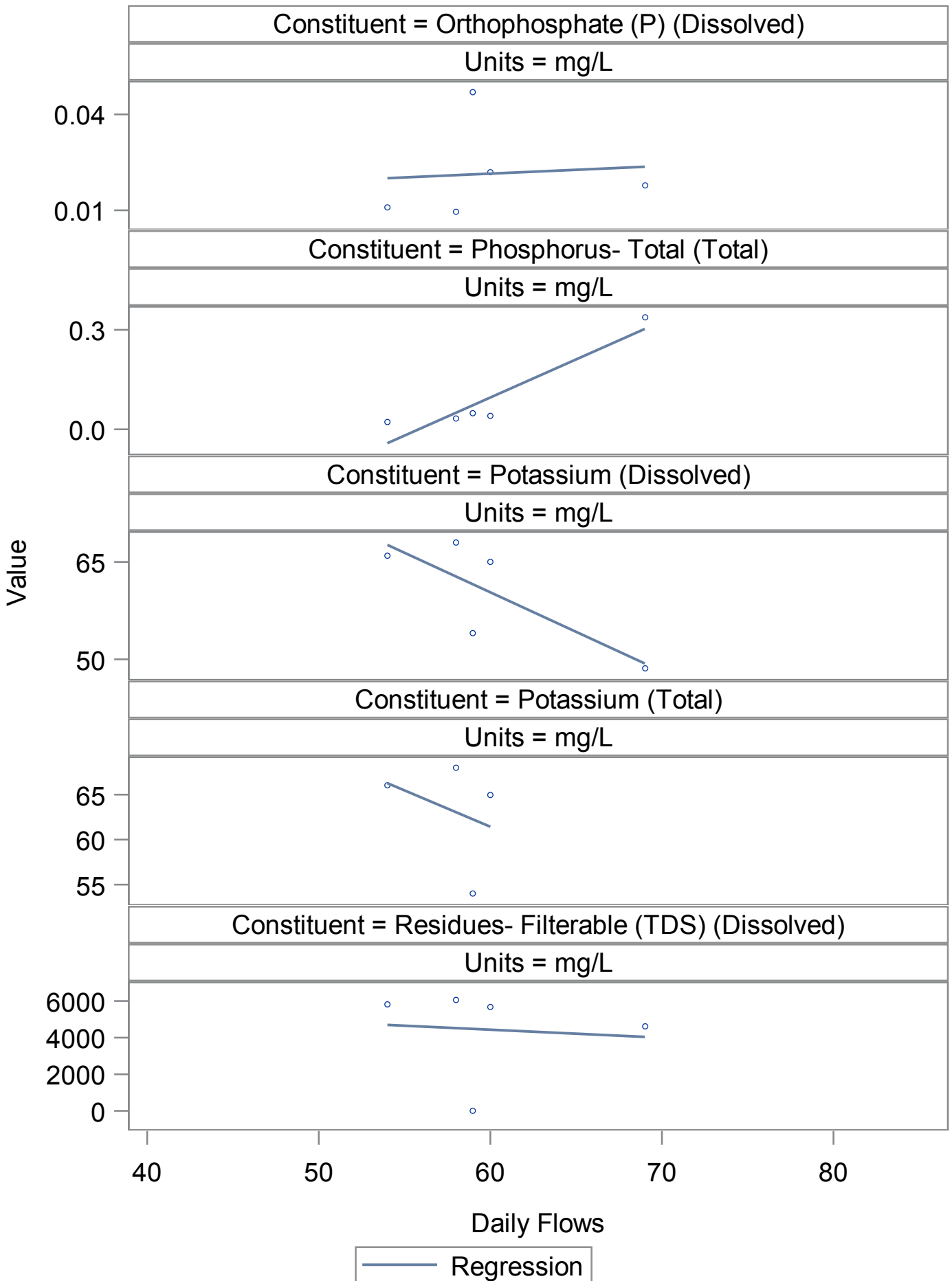




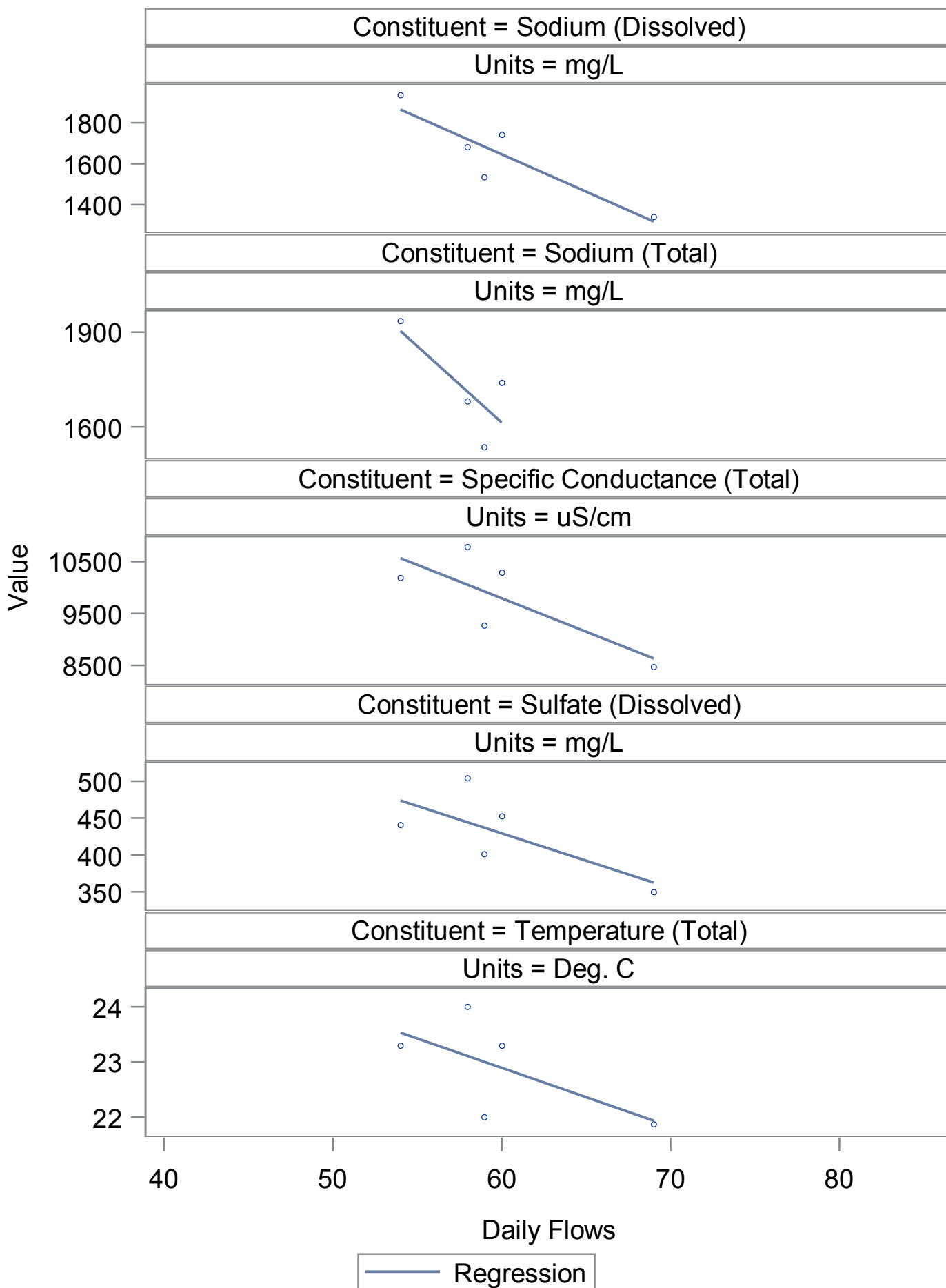
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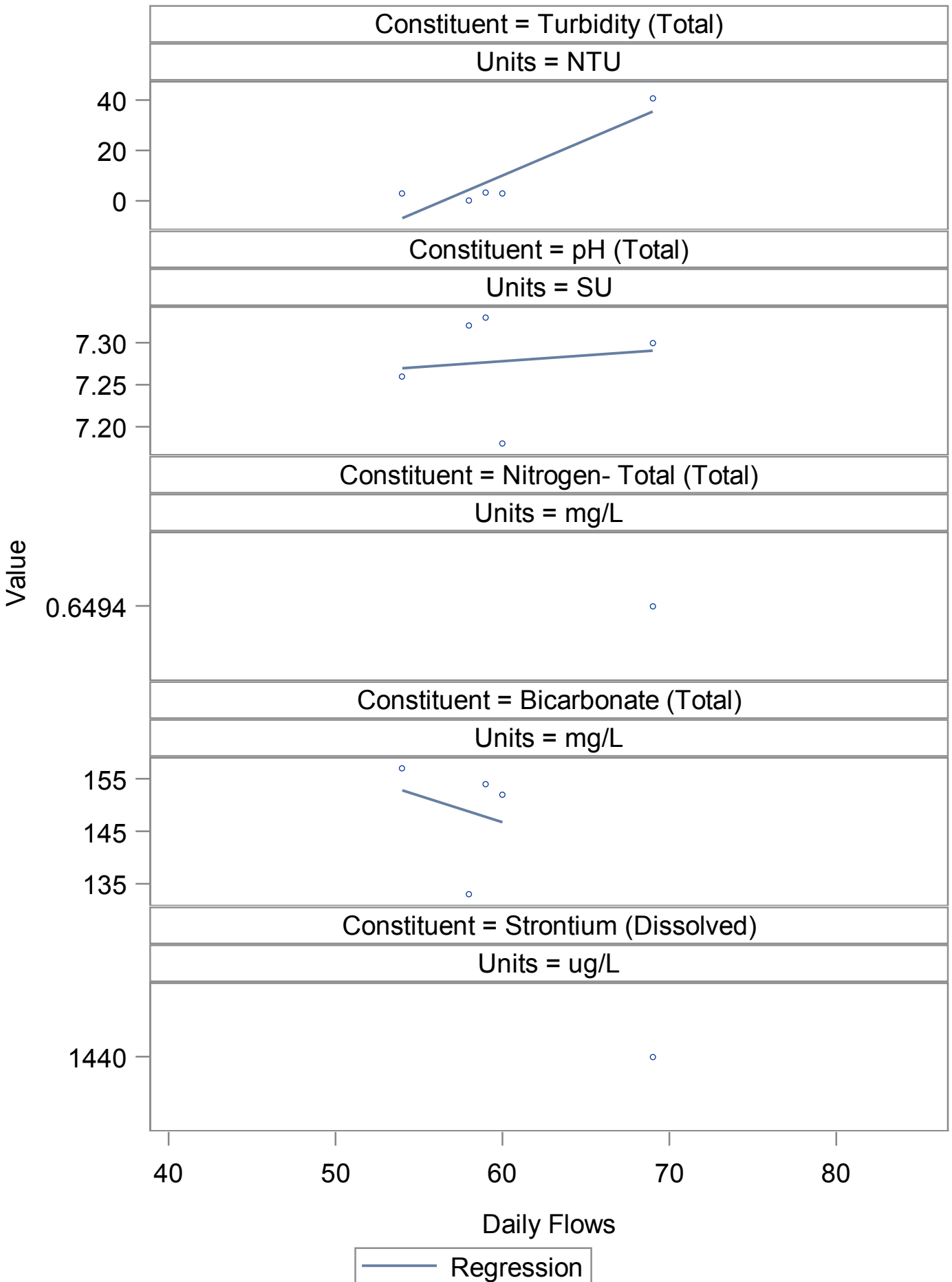
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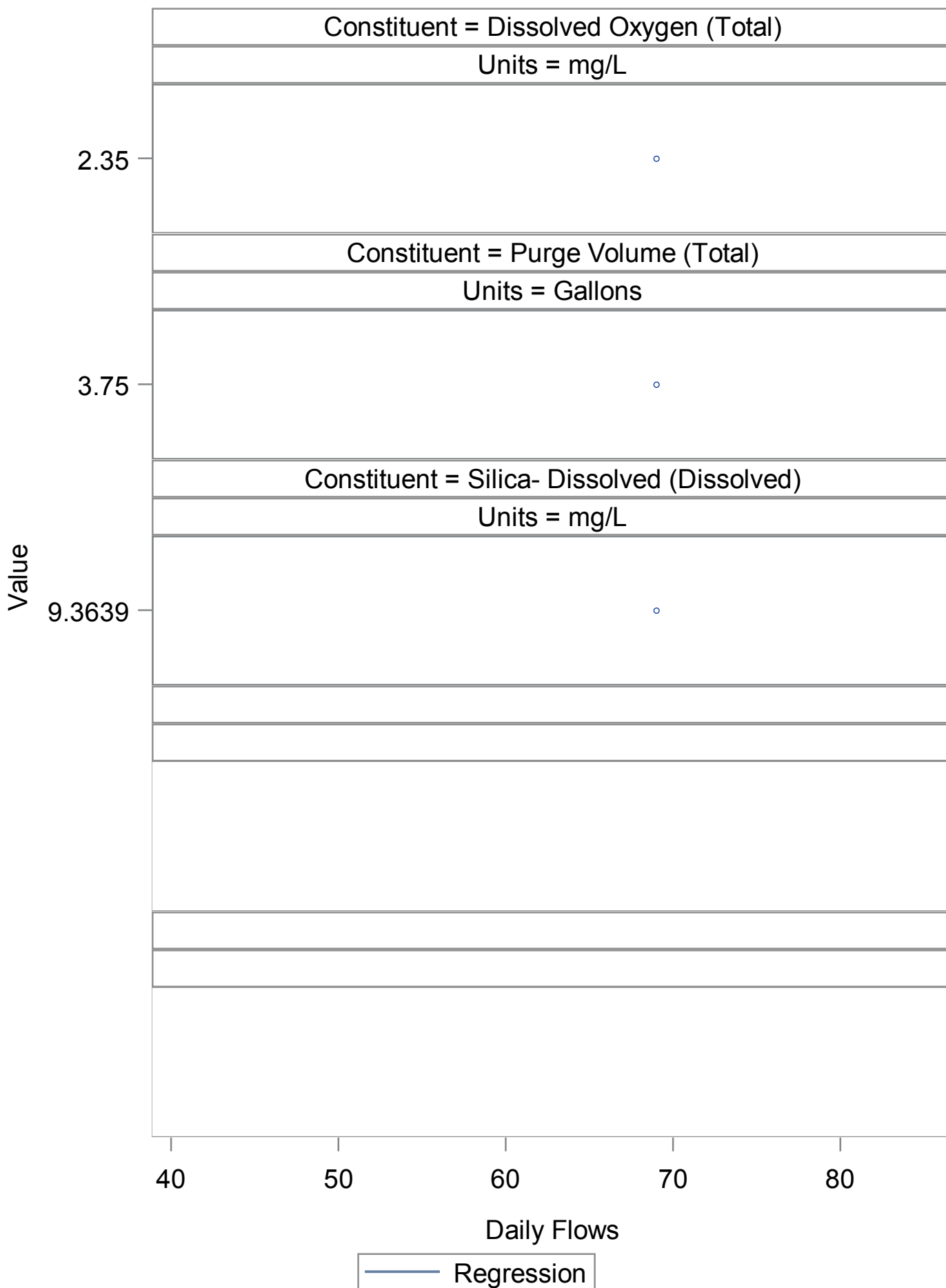
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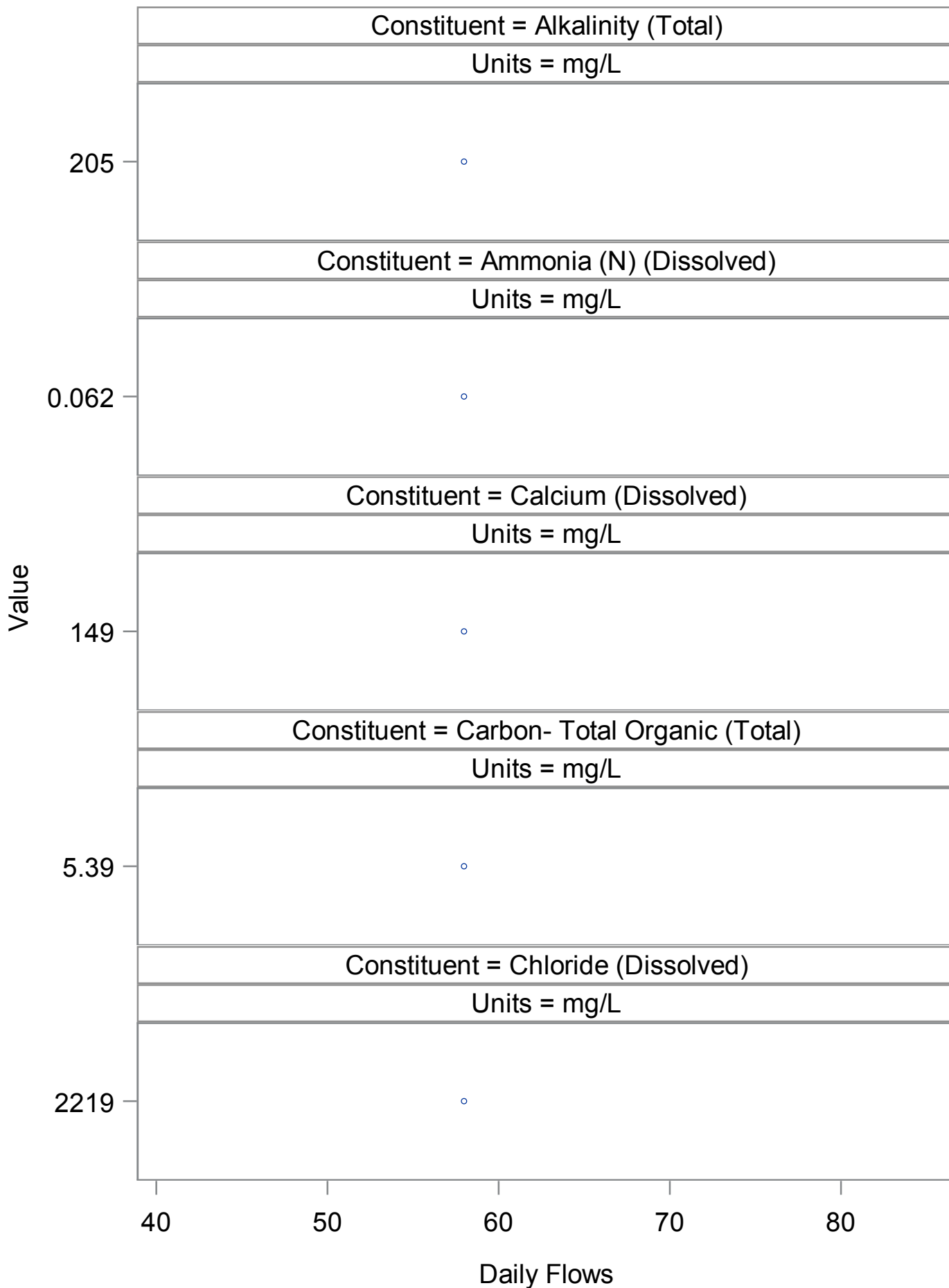
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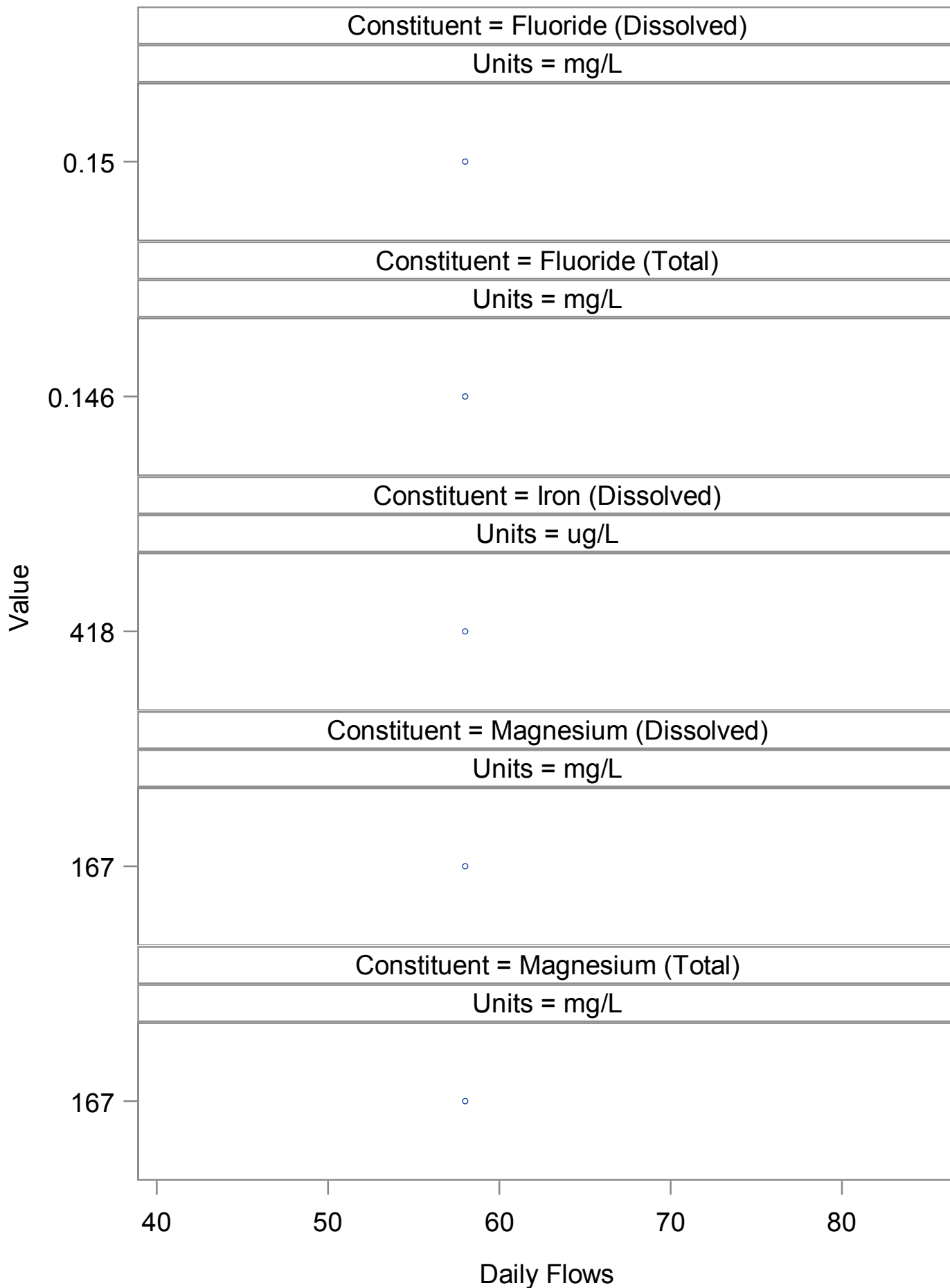
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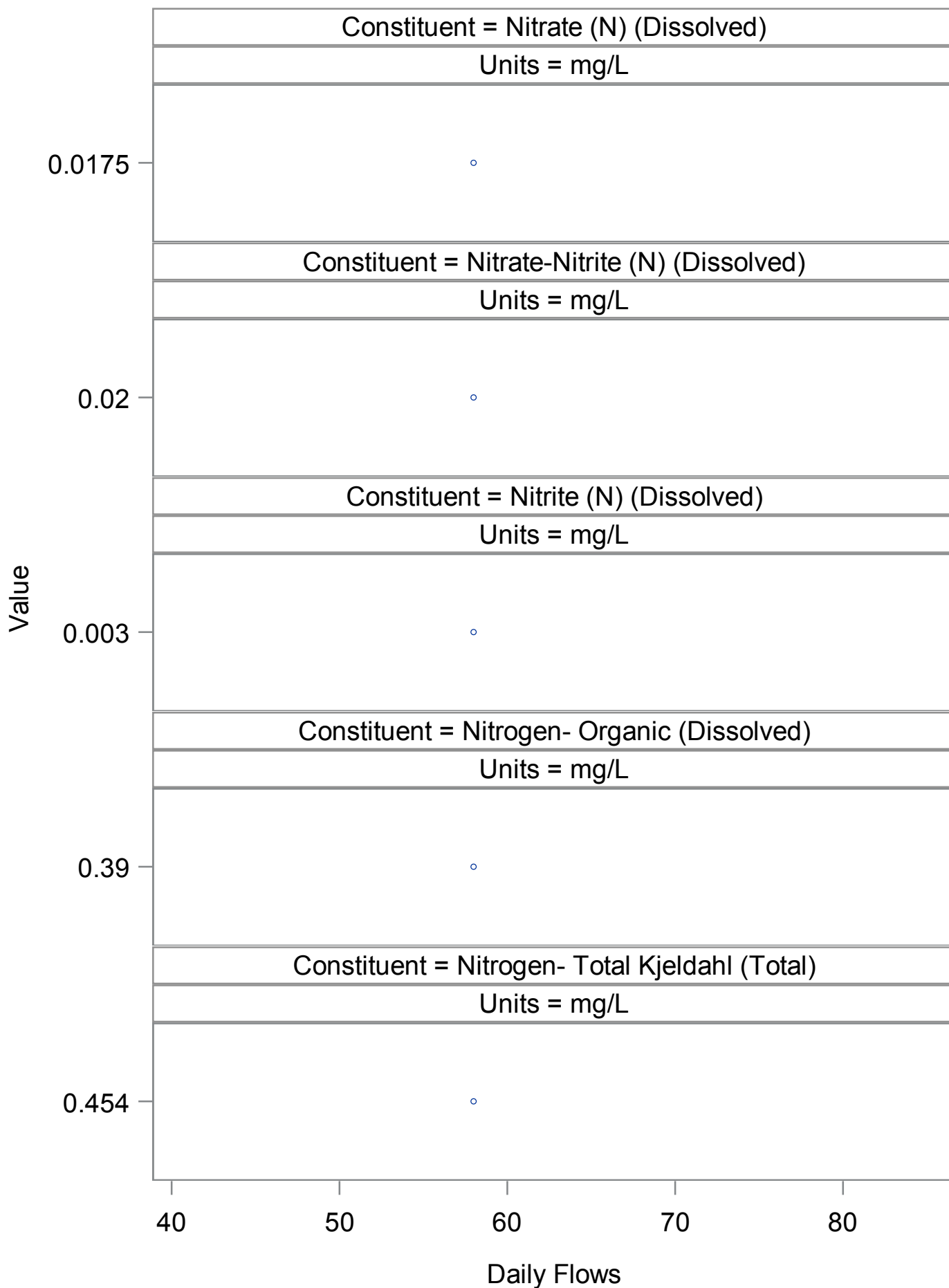
Source = Inactive and Station = RYLE CREEK SPRING



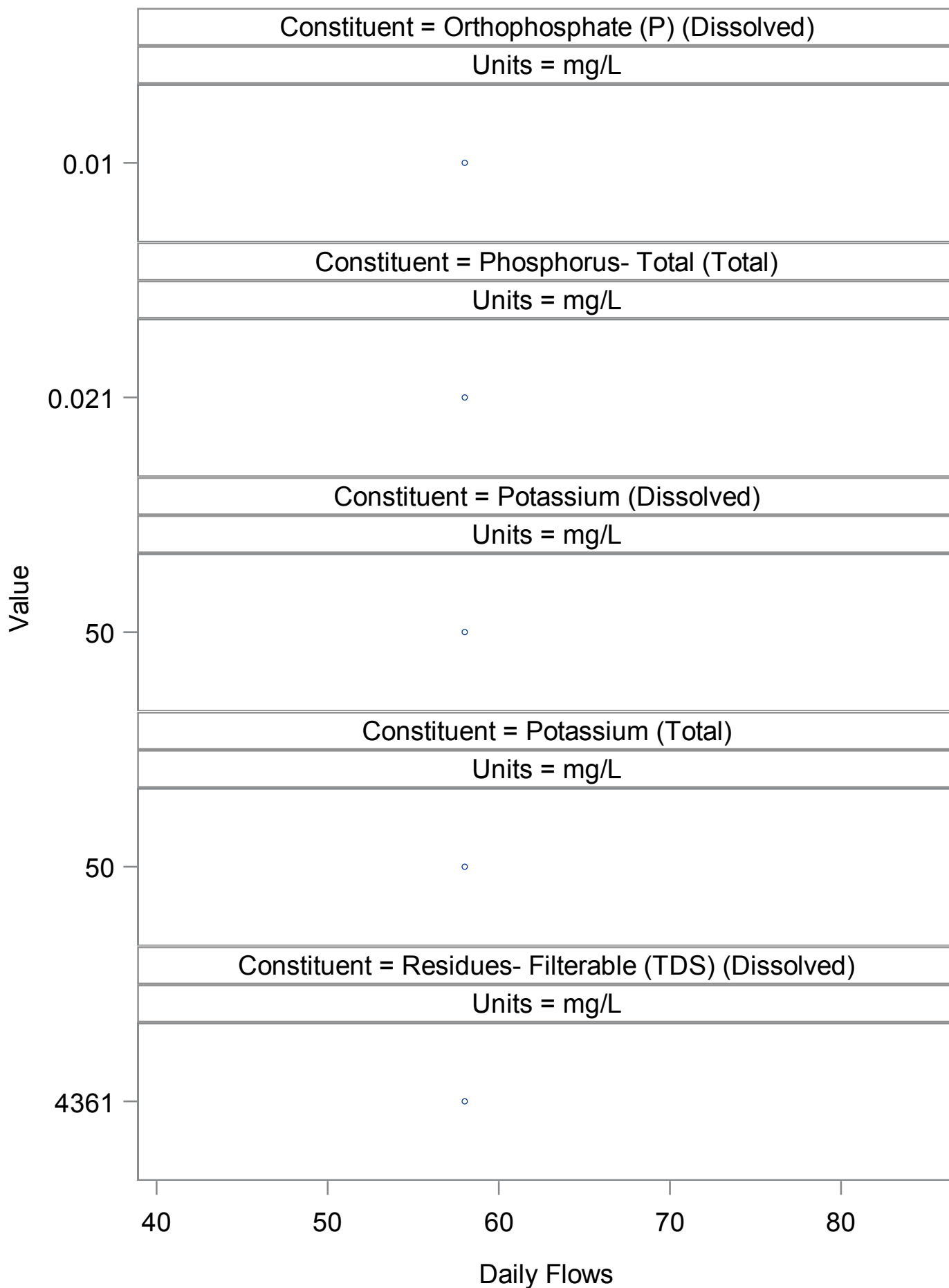
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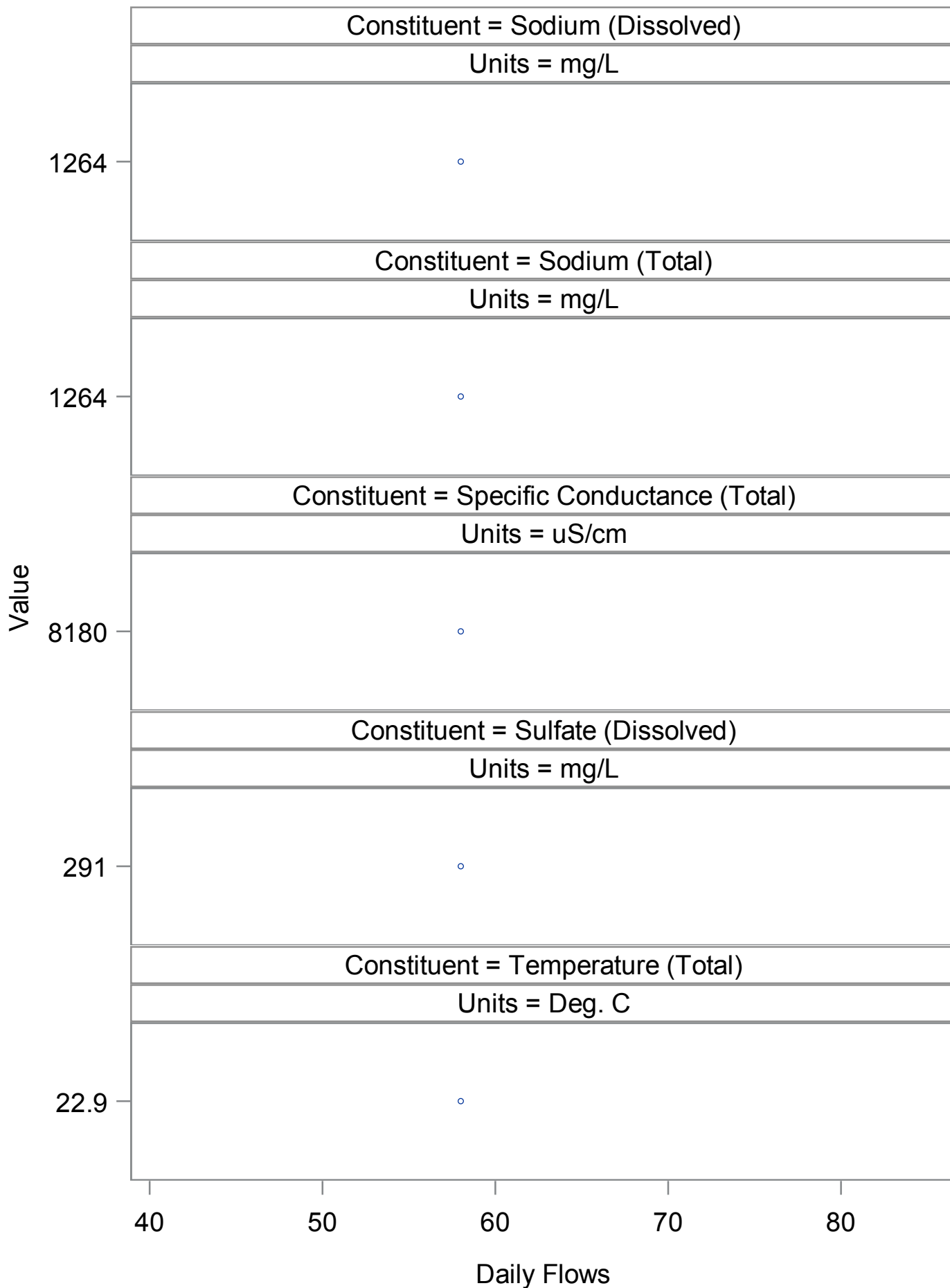
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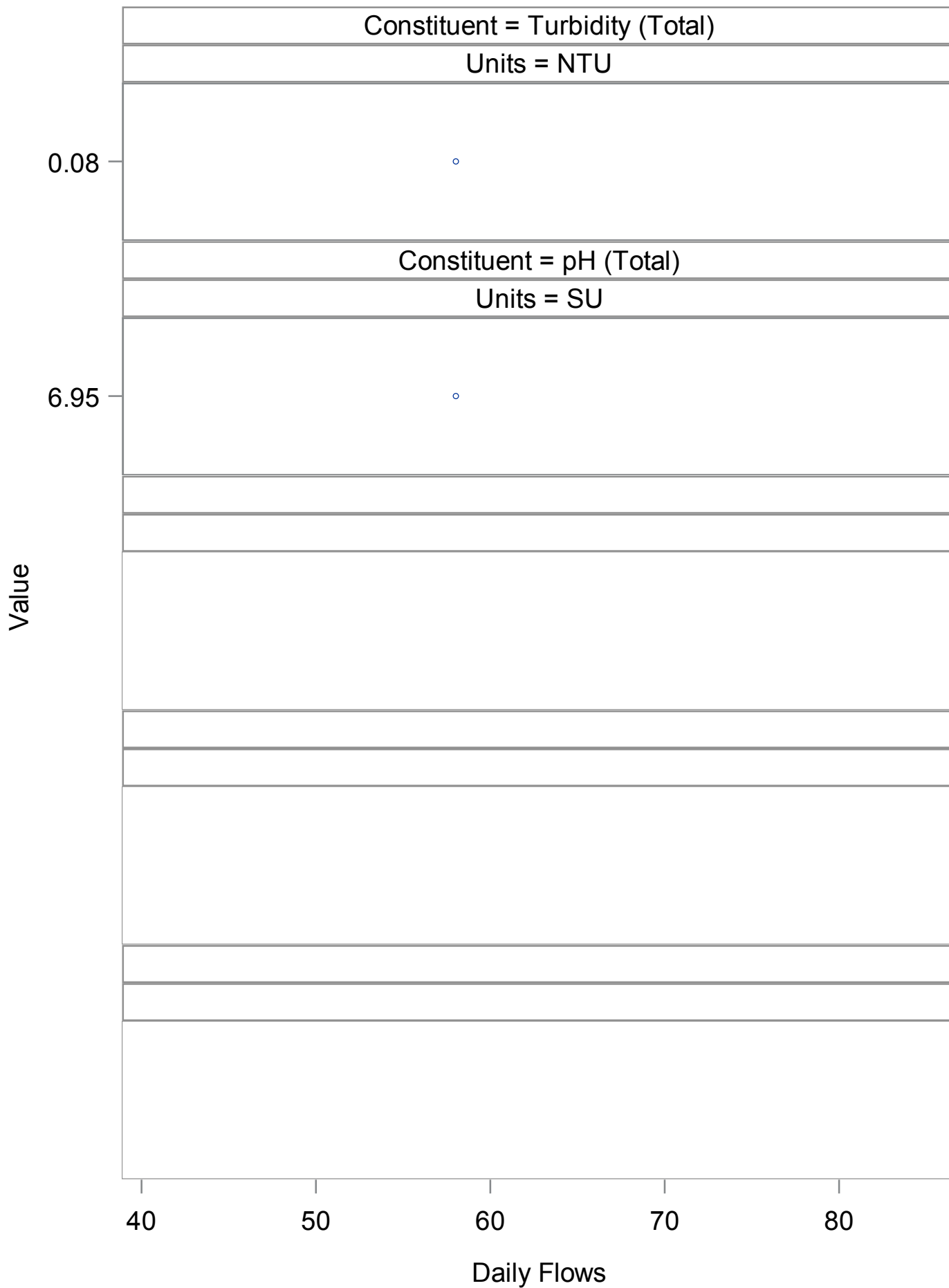
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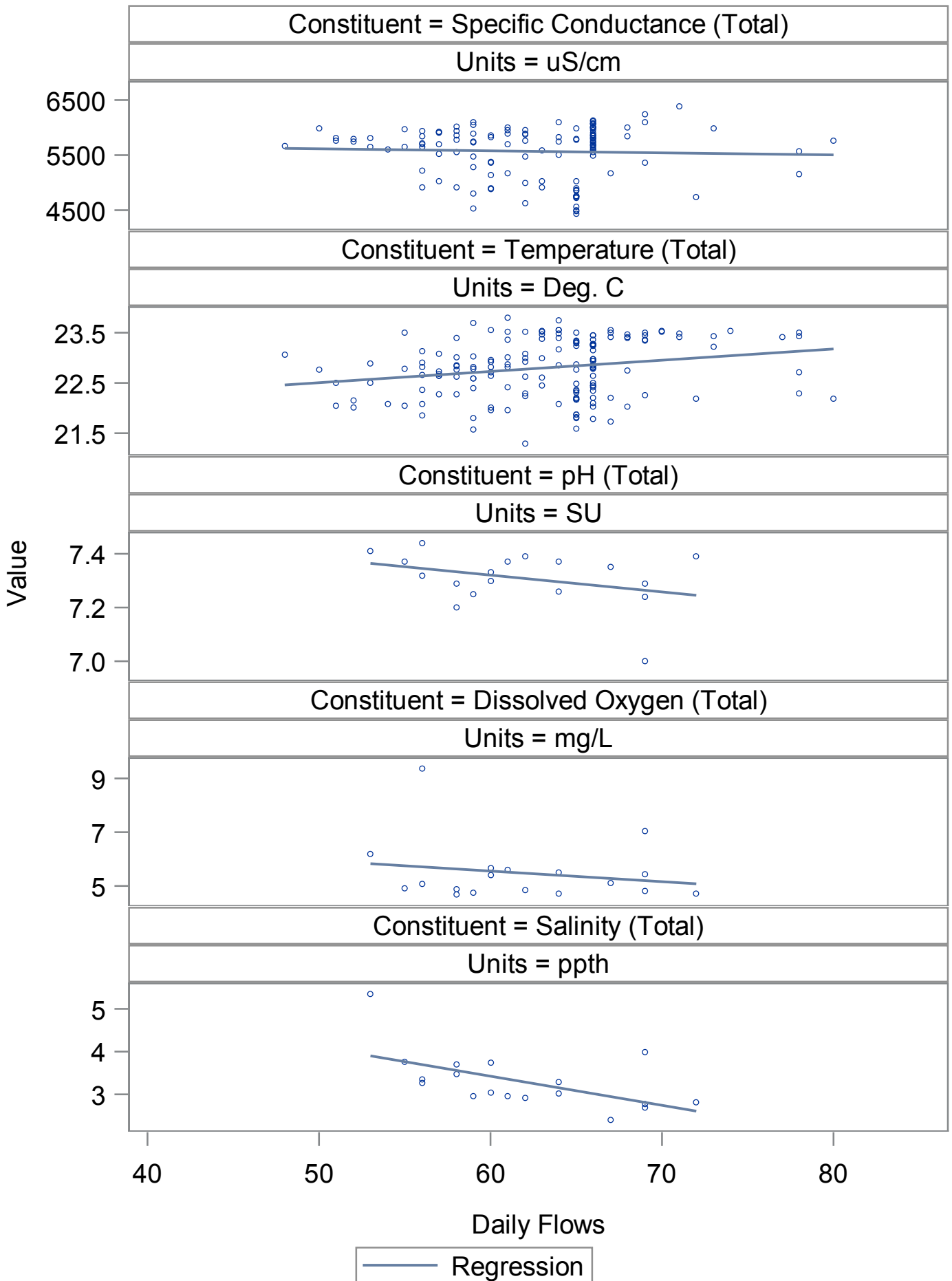


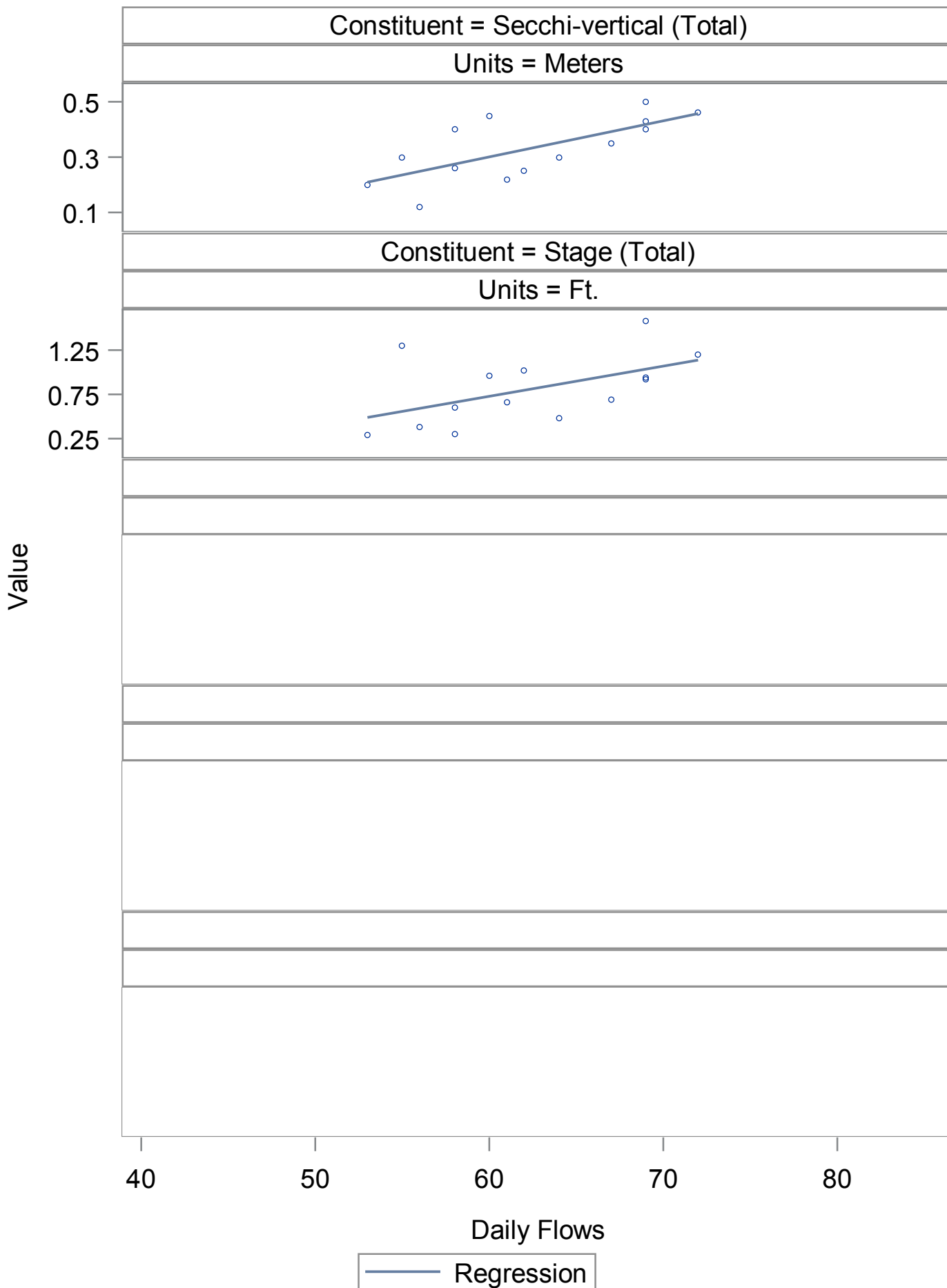
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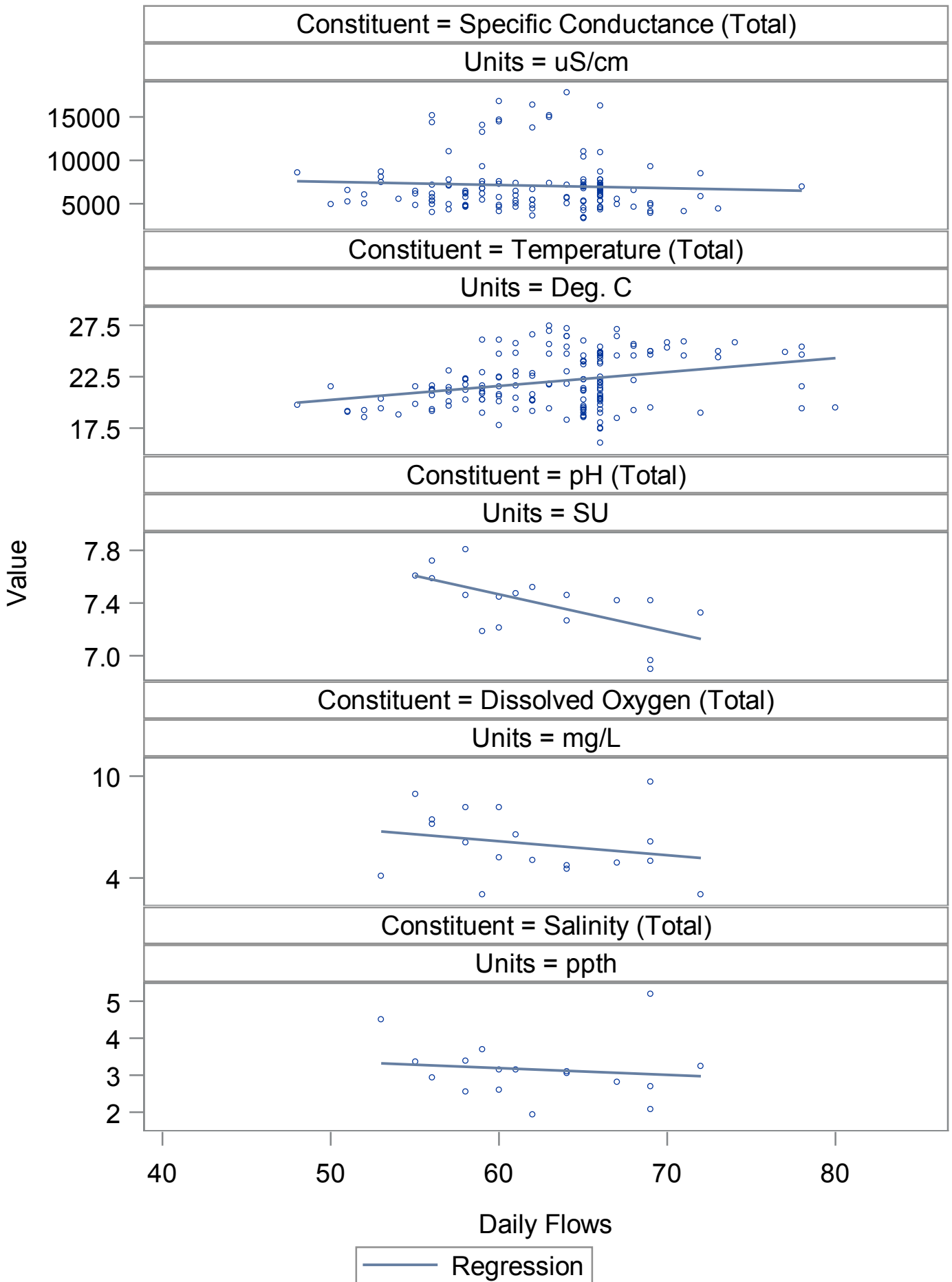


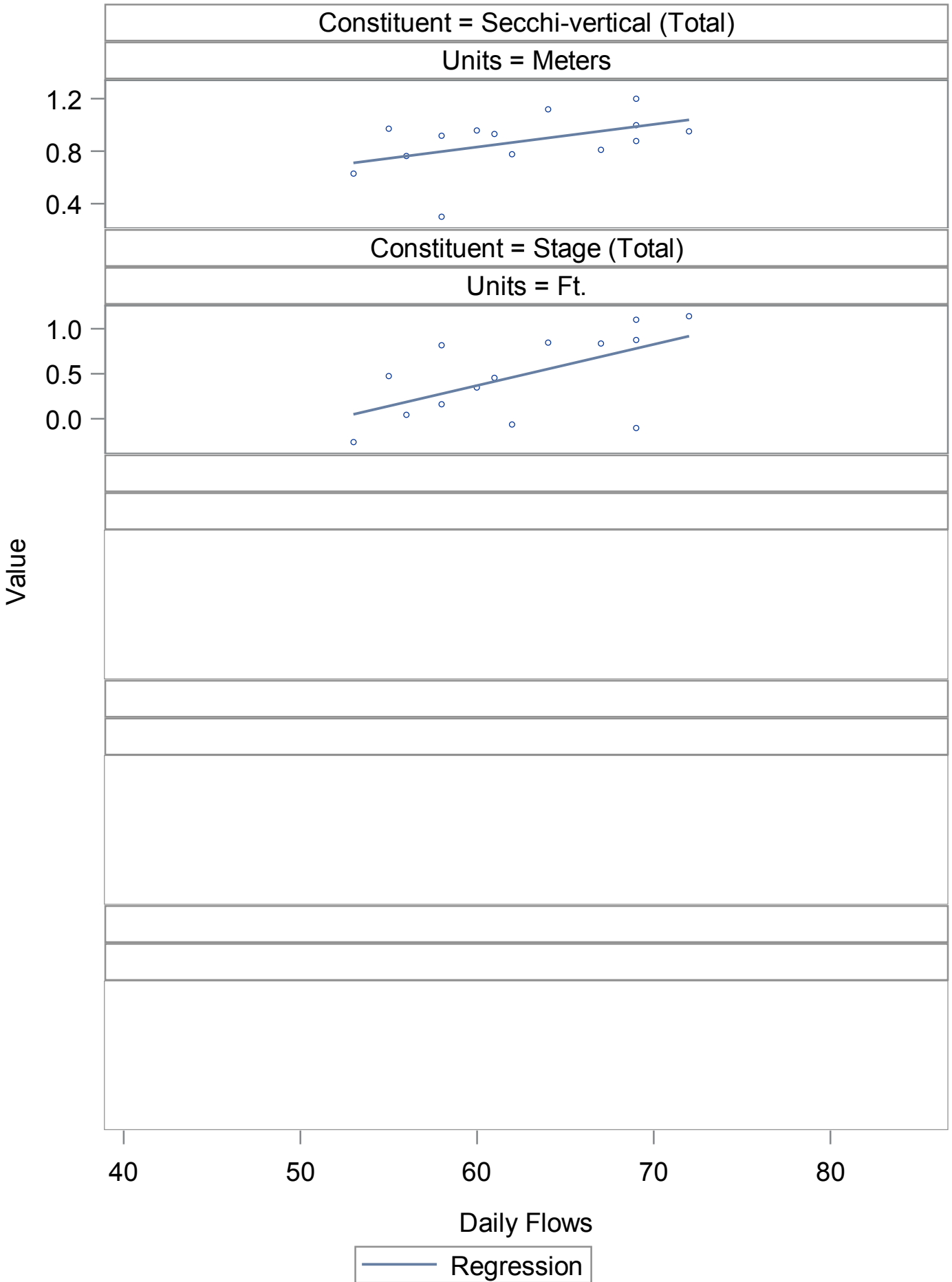
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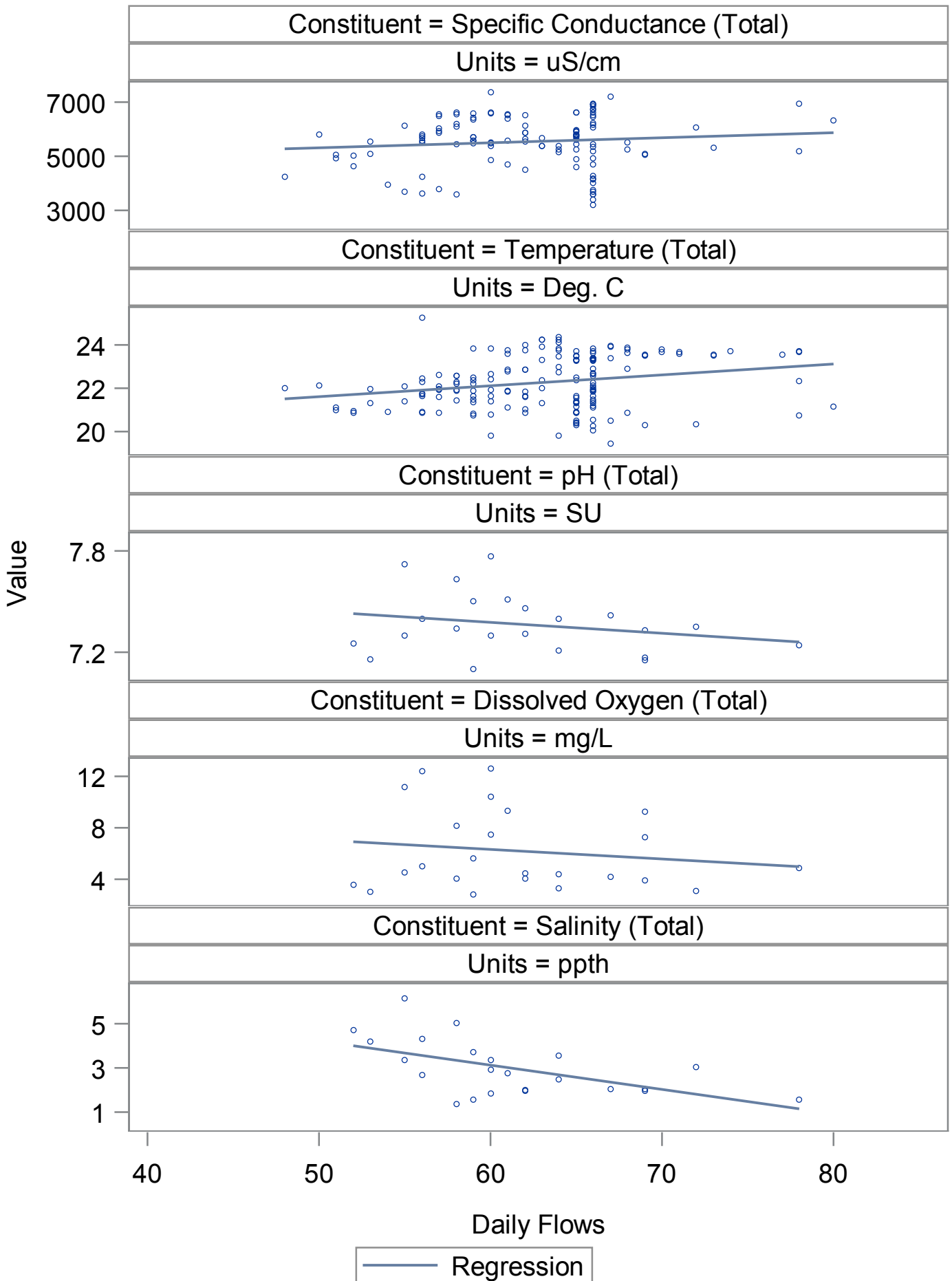






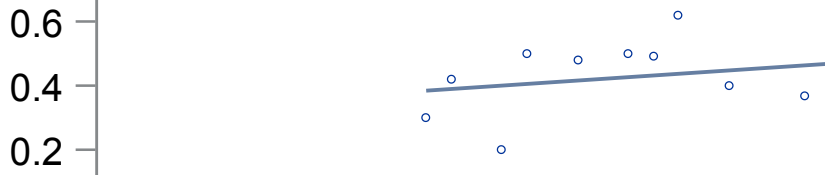






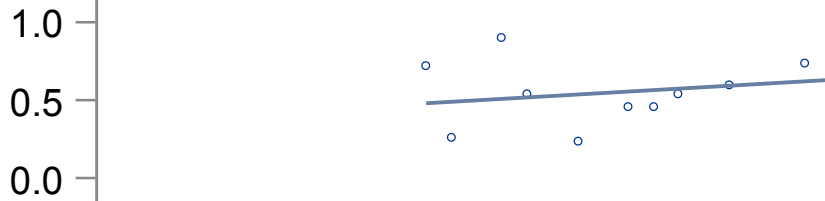
Constituent = Secchi-vertical (Total)

Units = Meters



Constituent = Stage (Total)

Units = Ft.

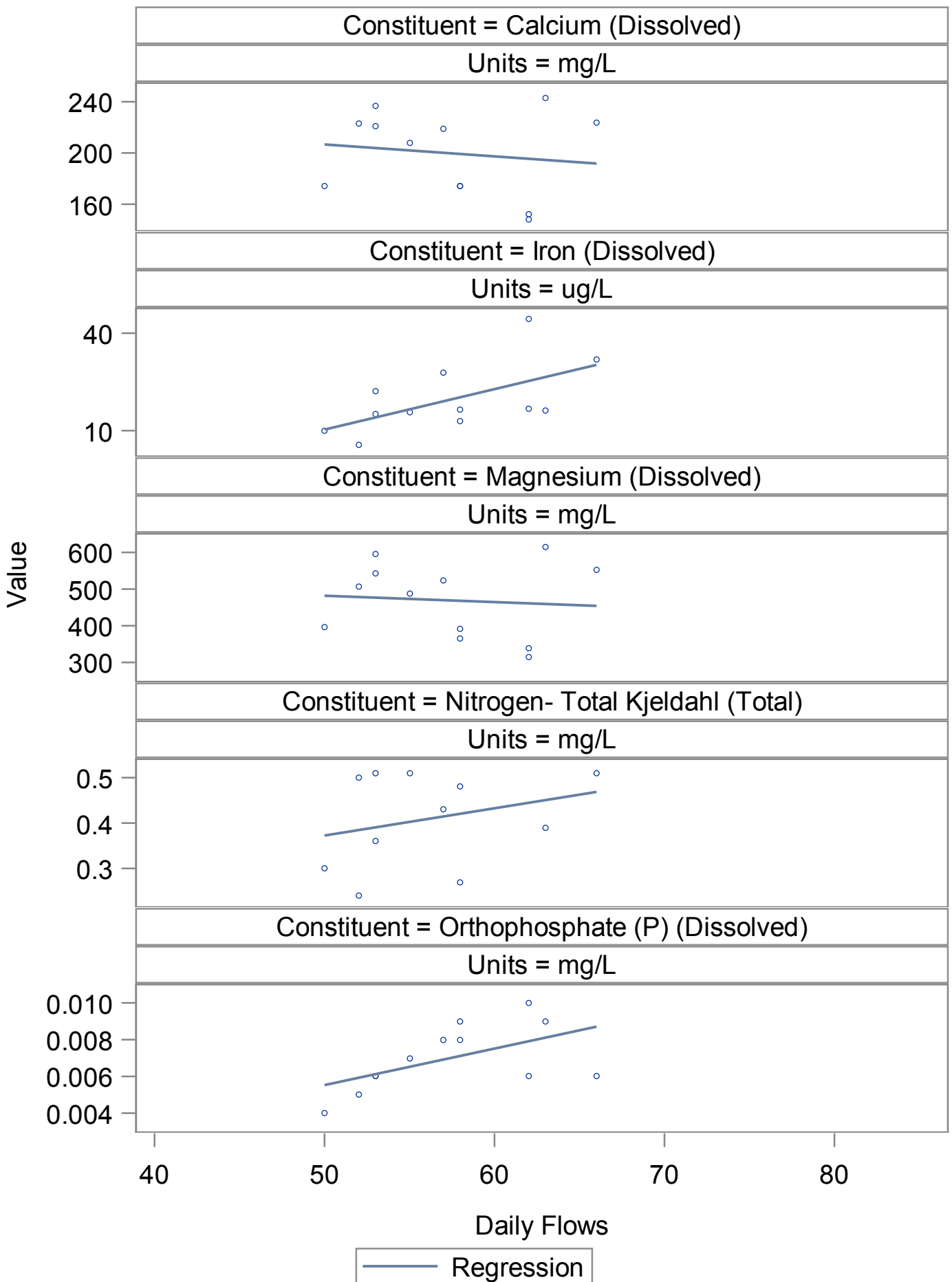


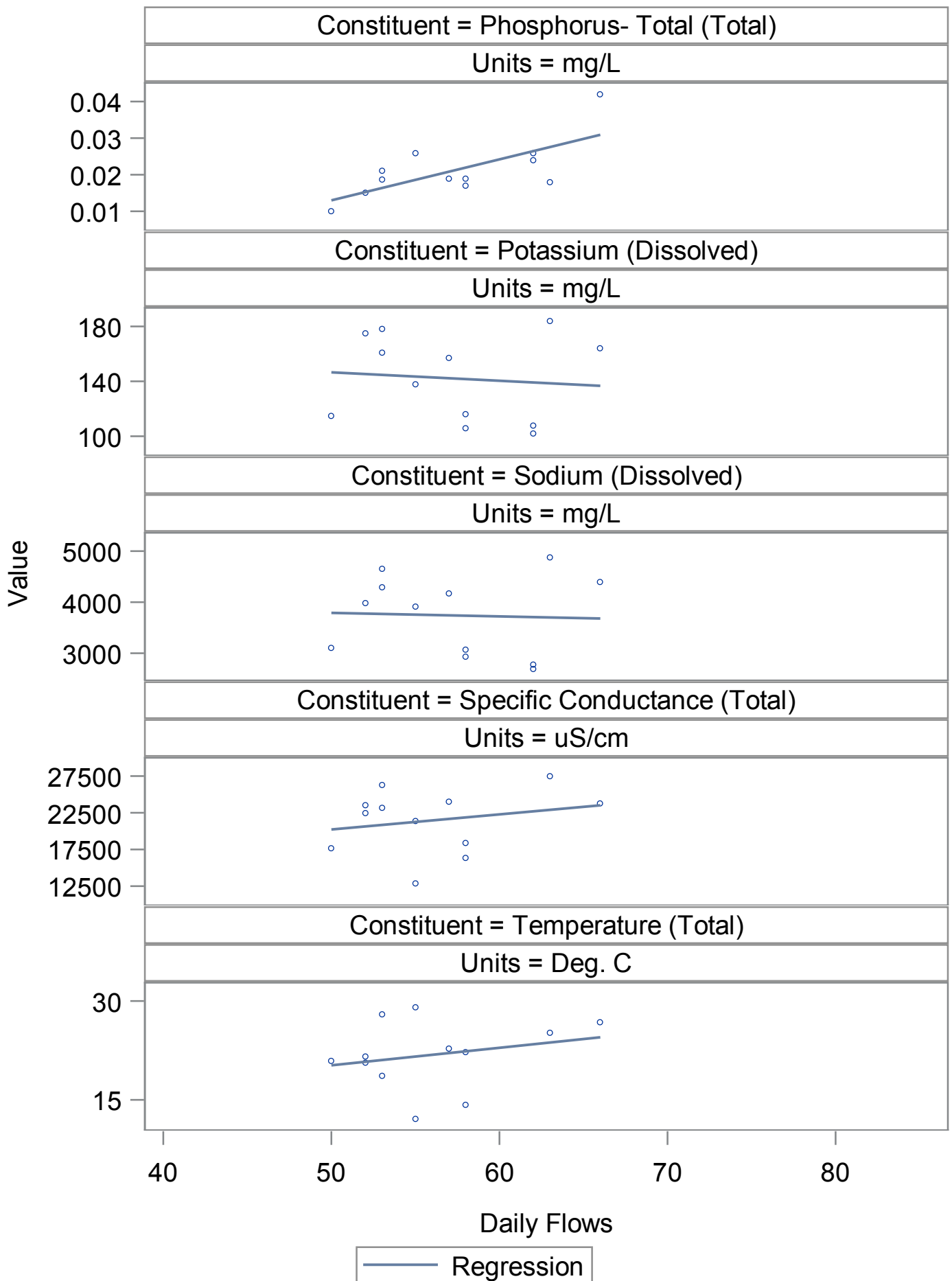
Value

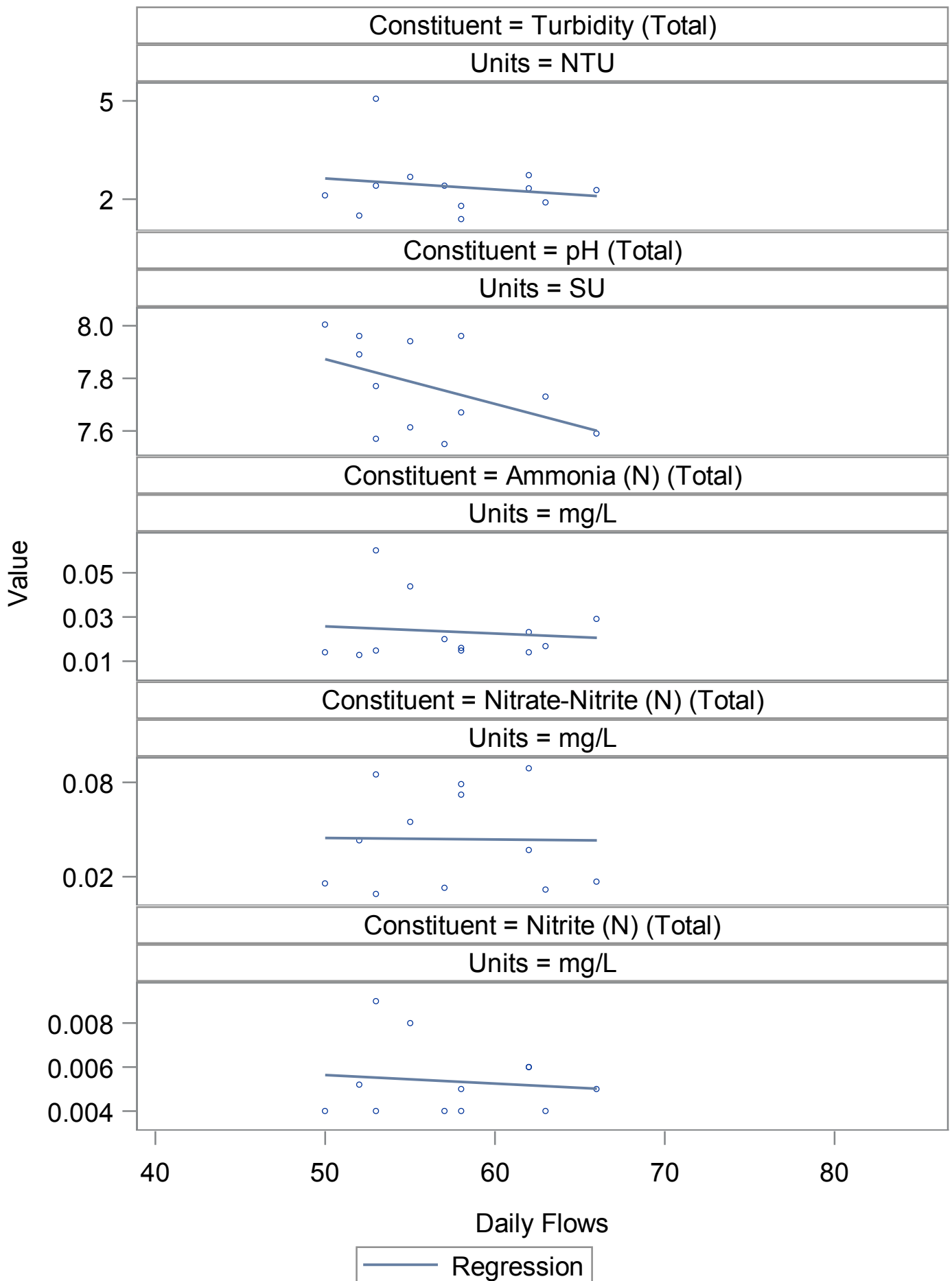
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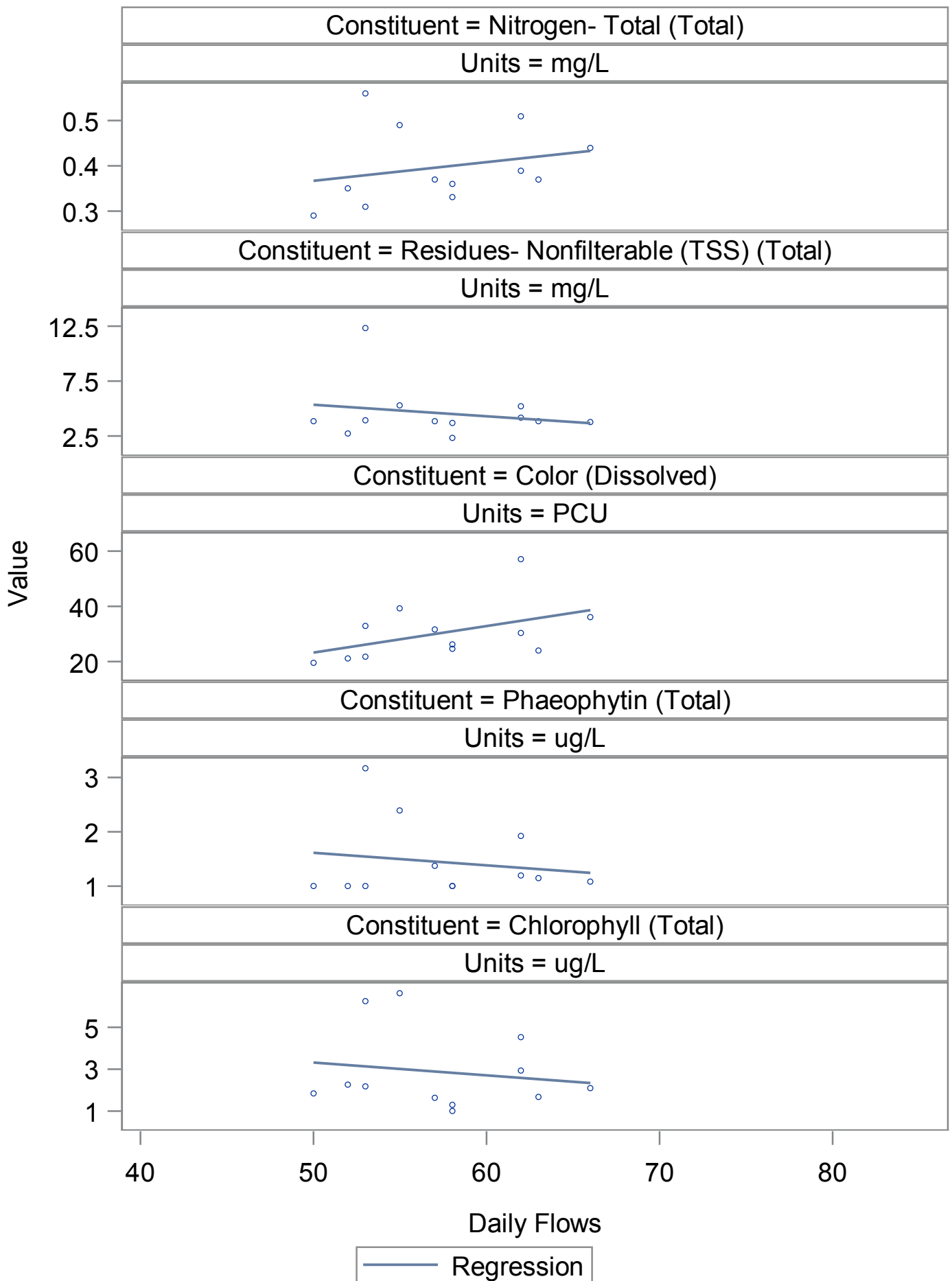
Daily Flows

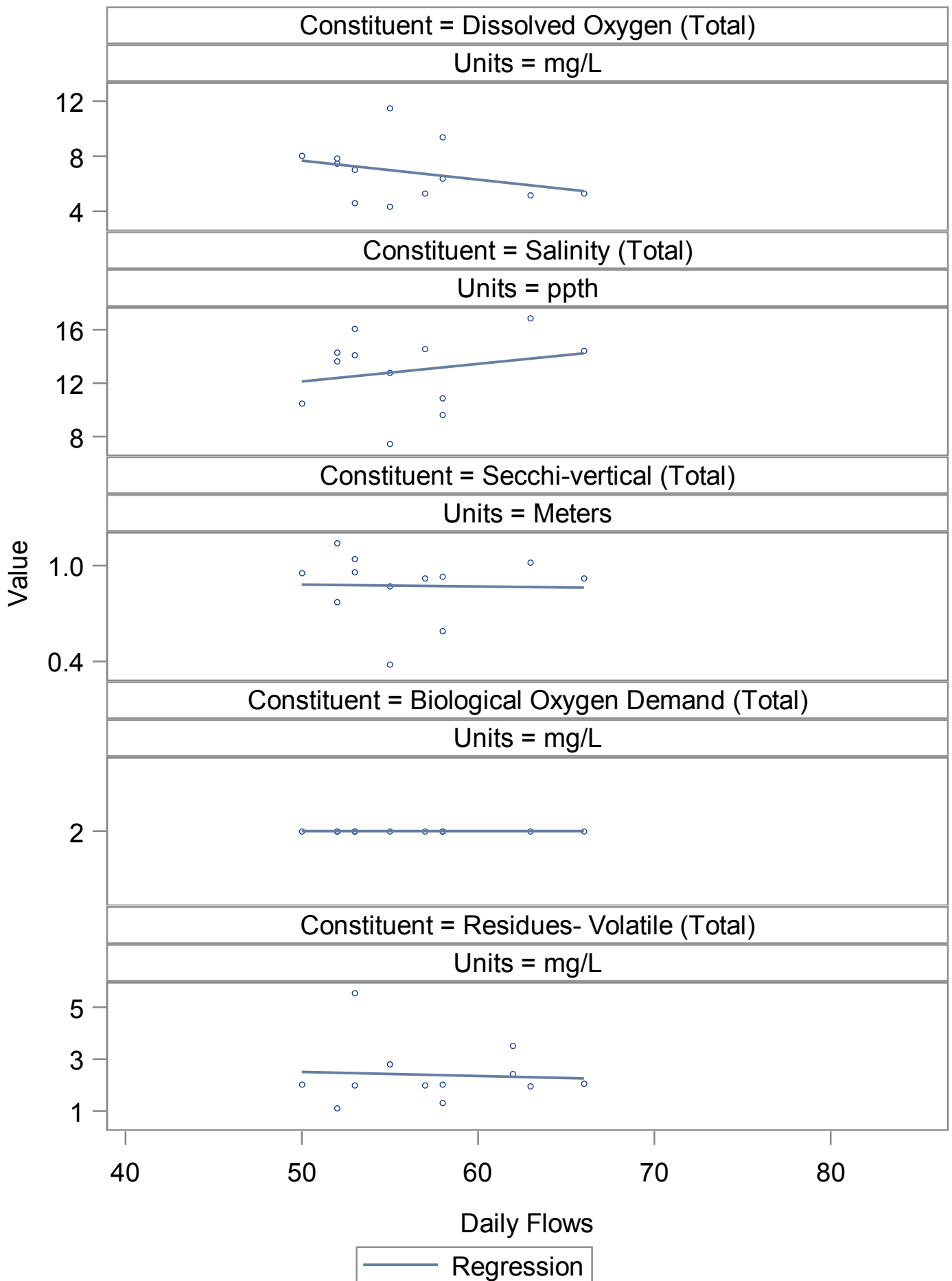
— Regression

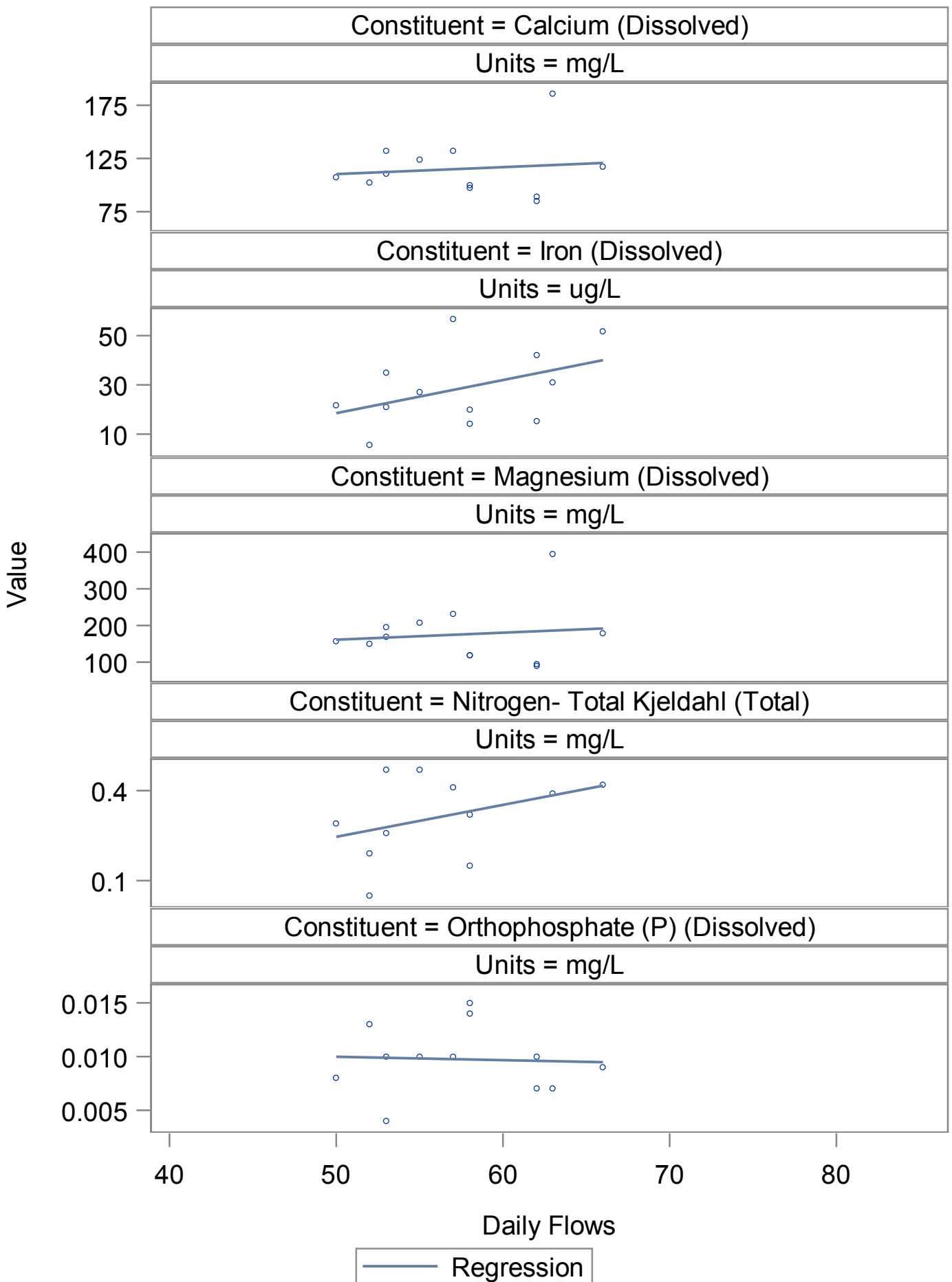


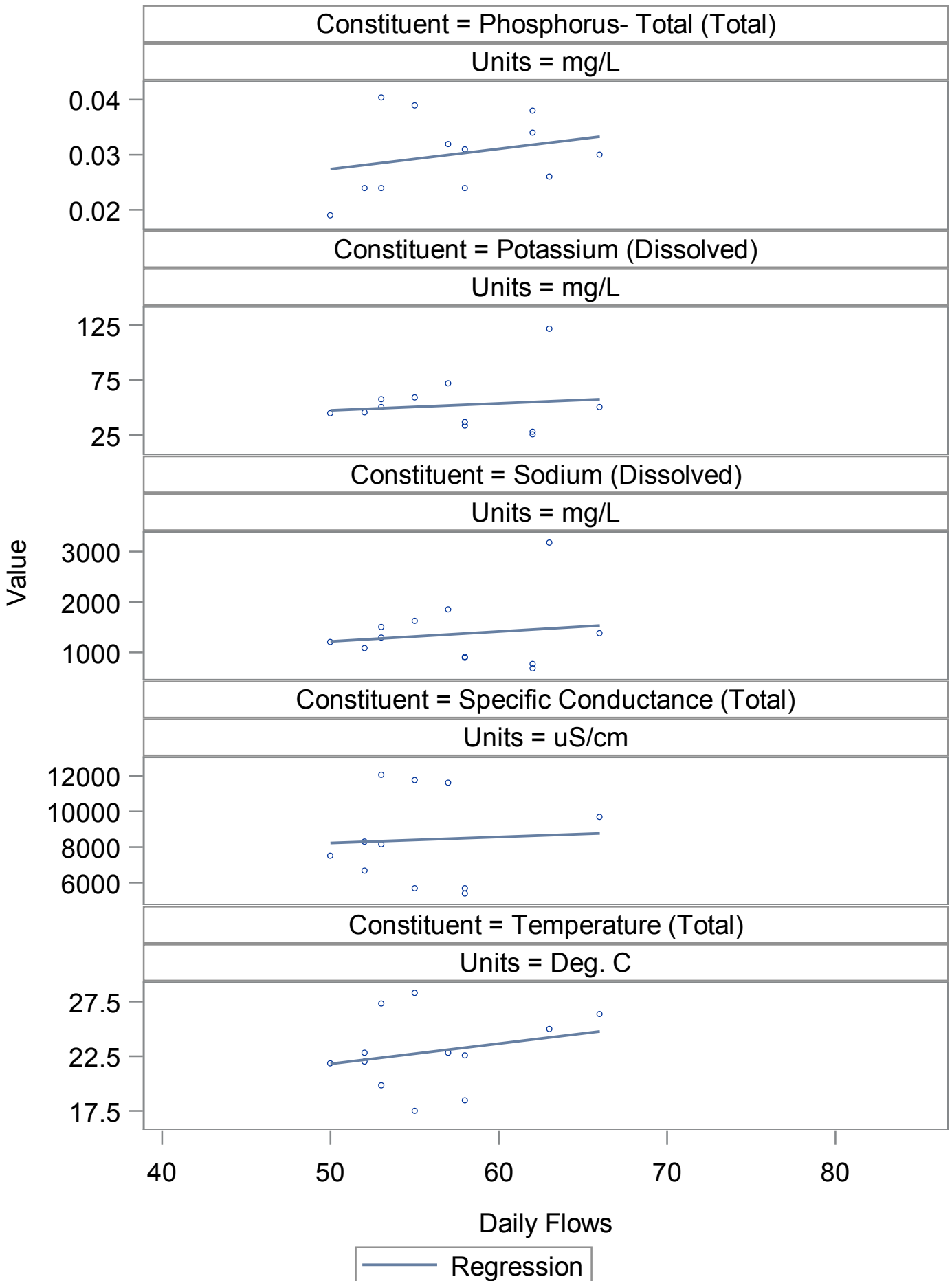


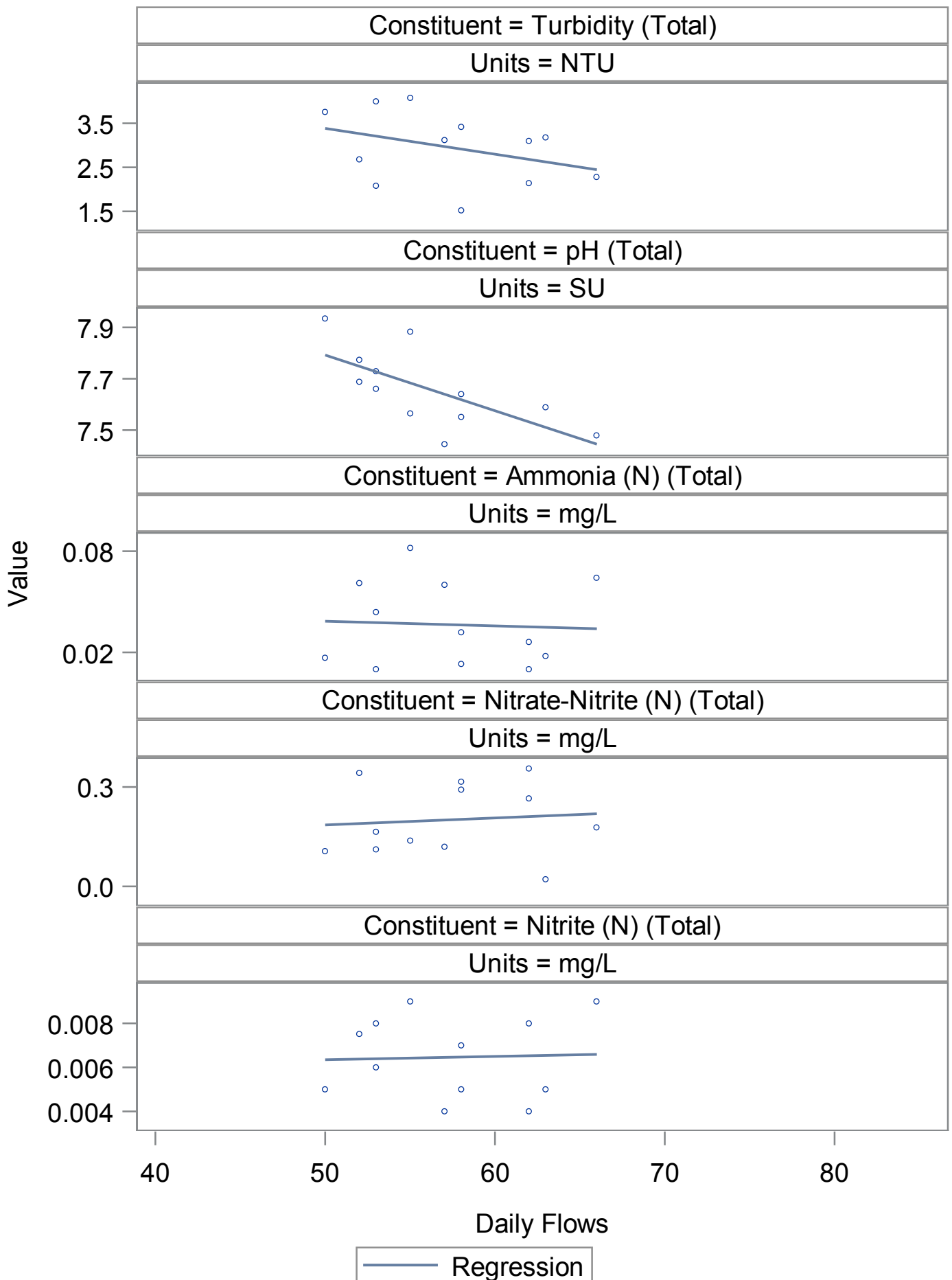


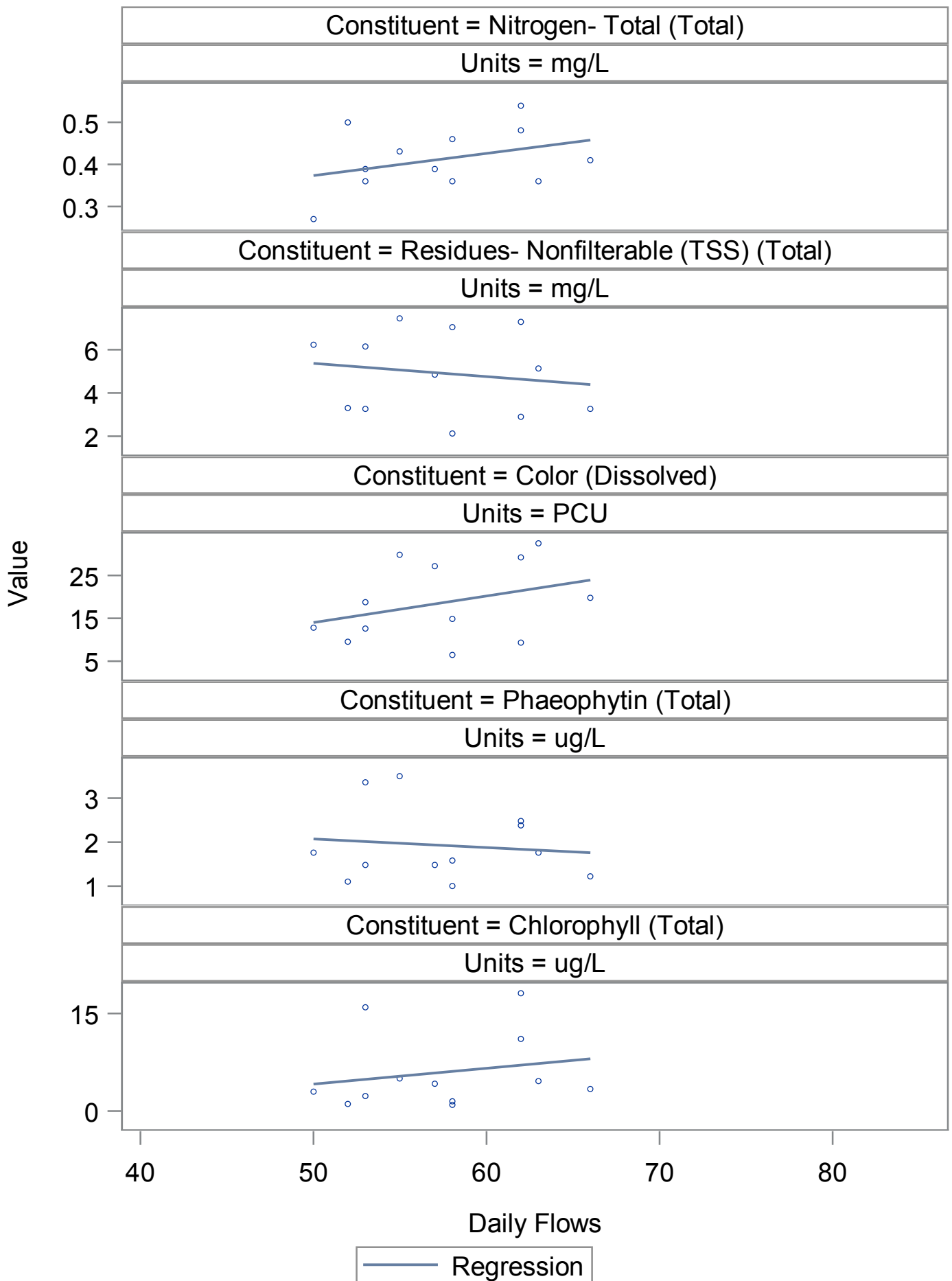


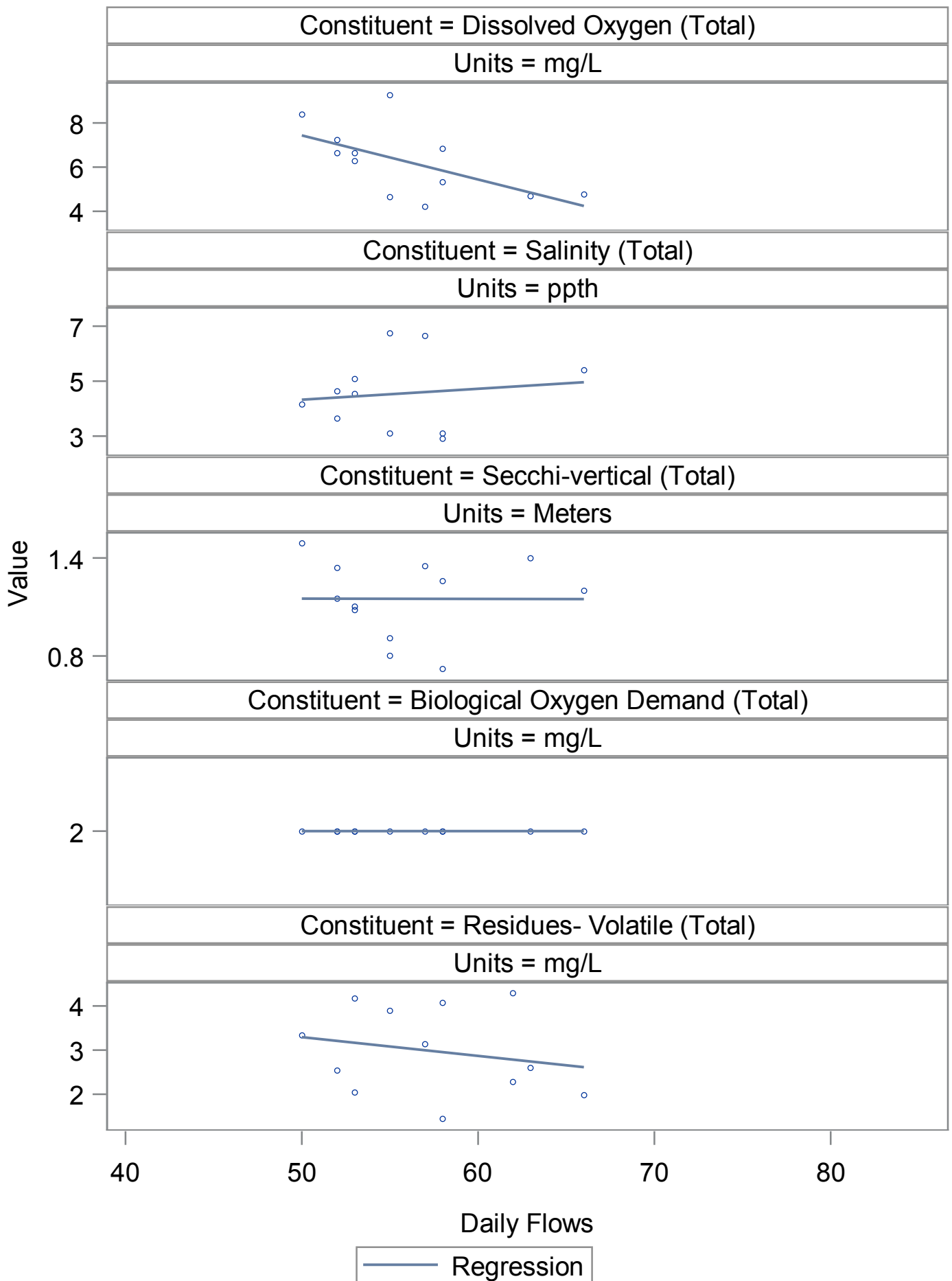


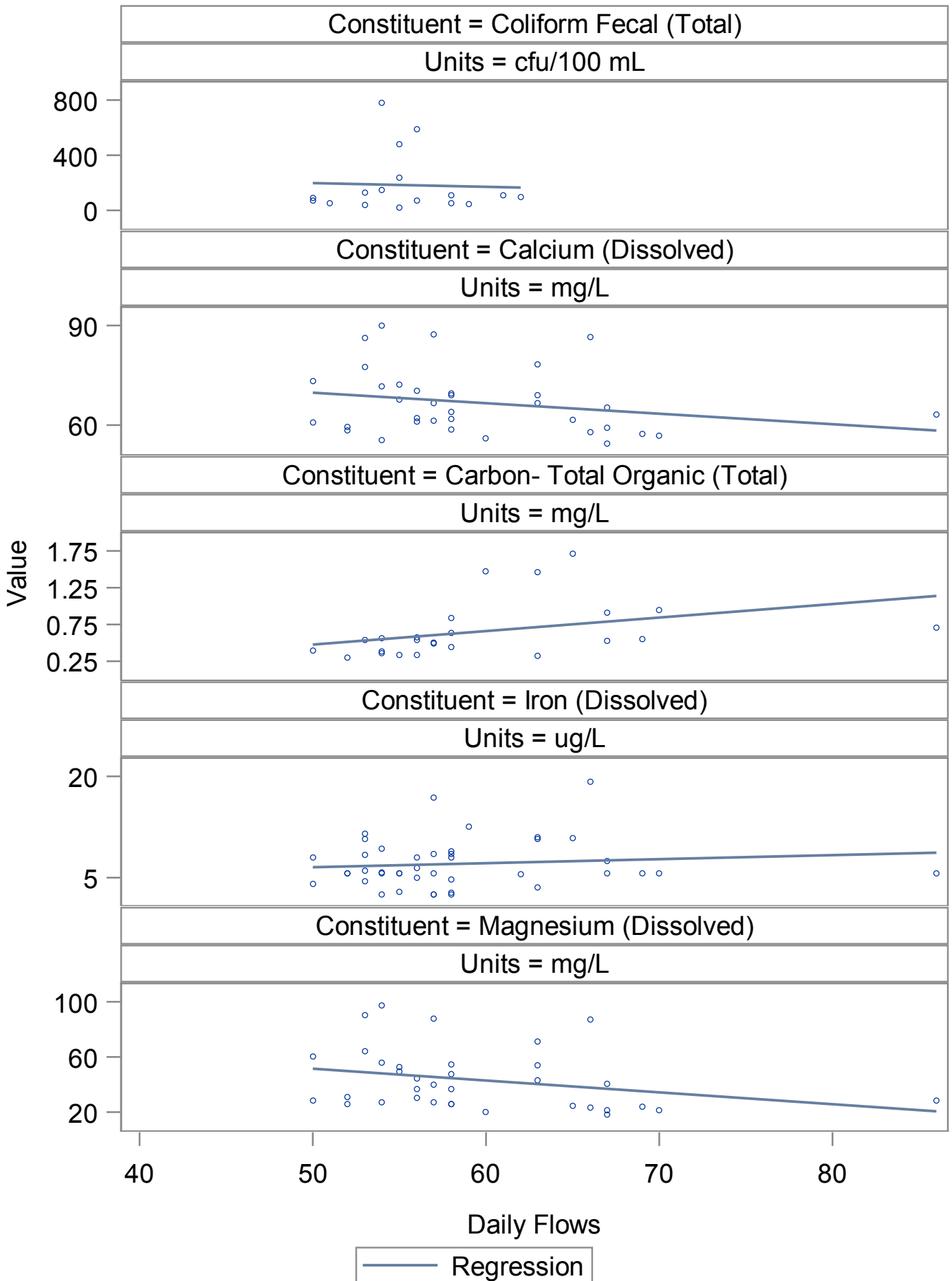


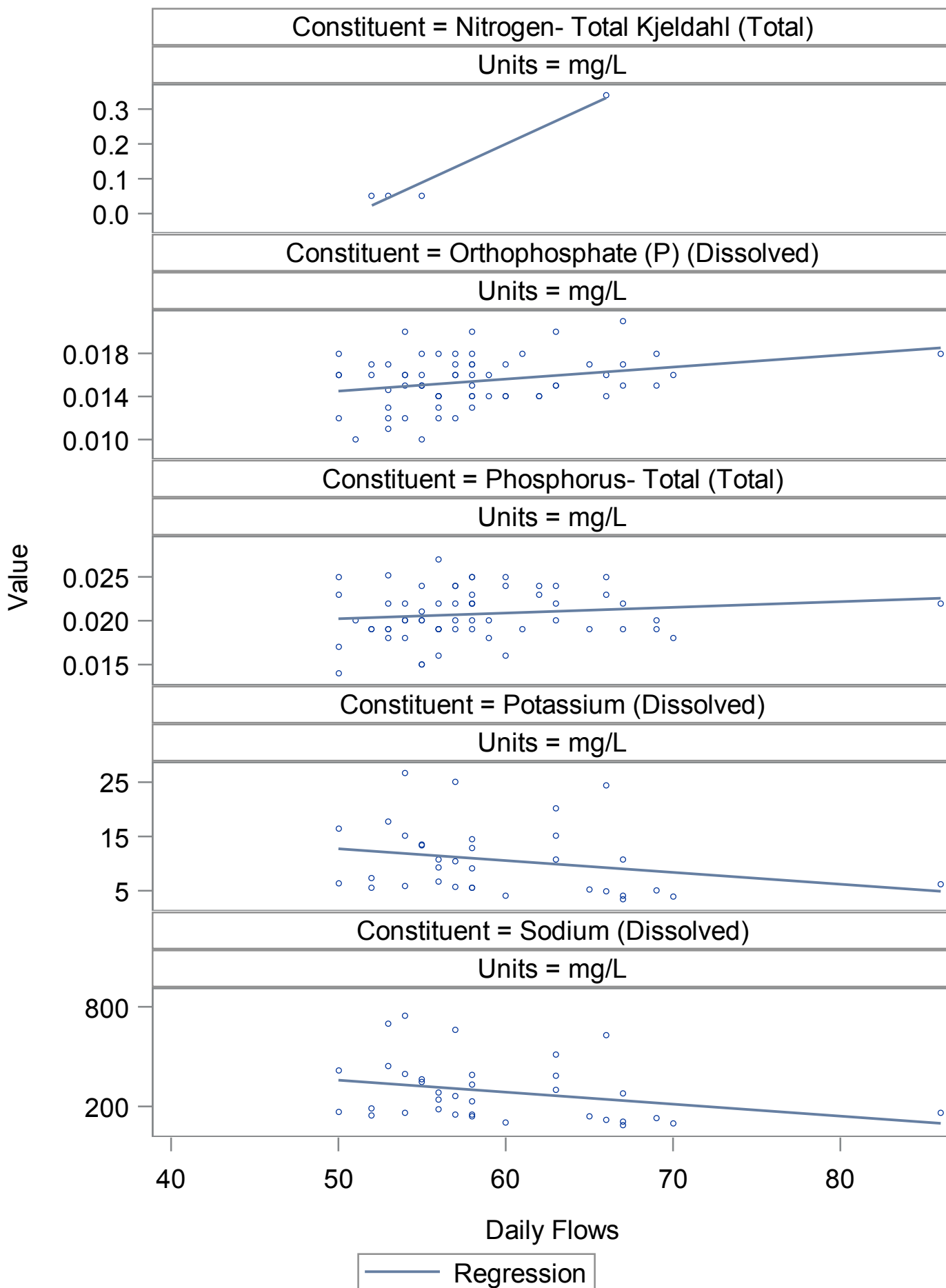


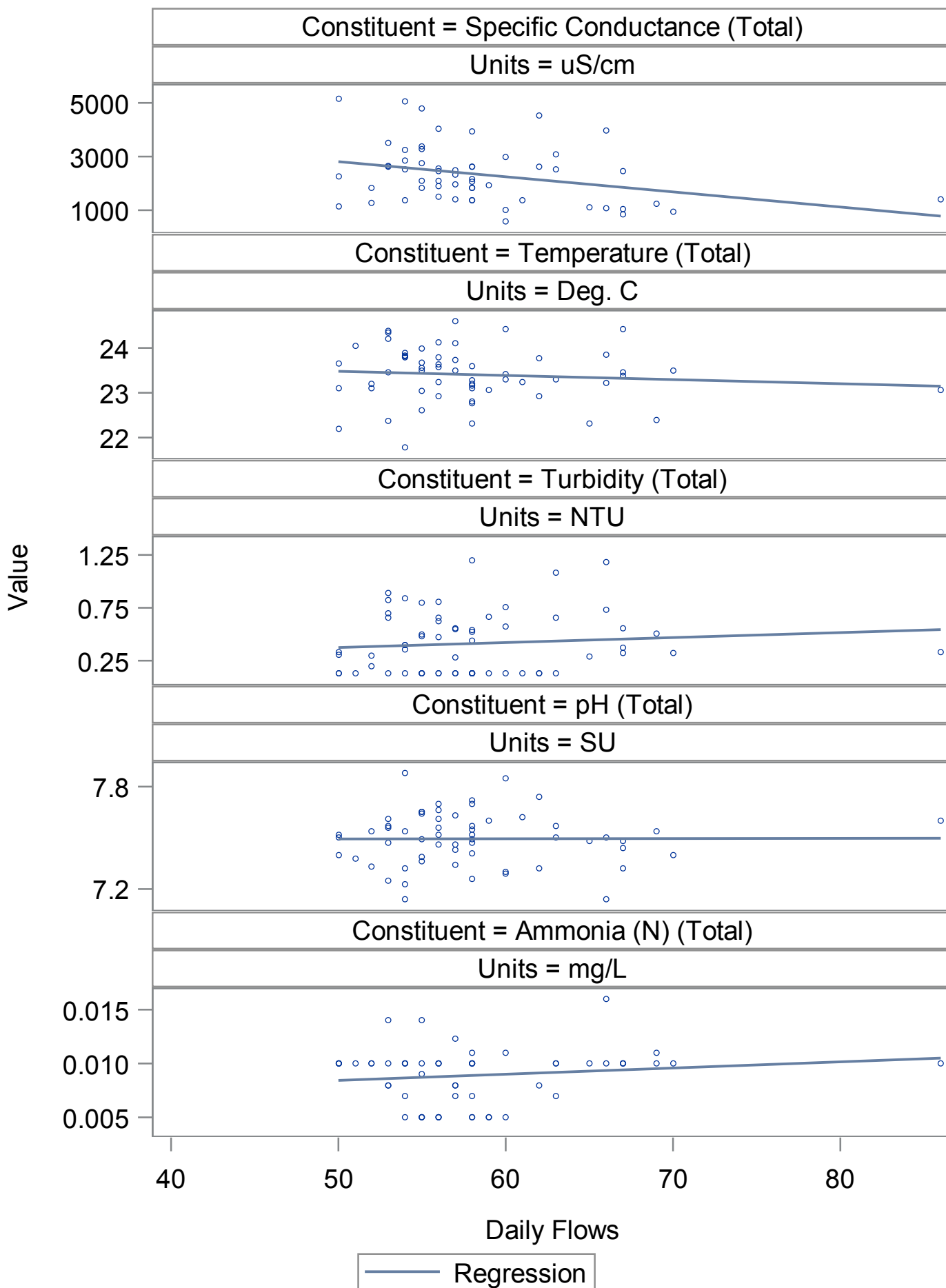


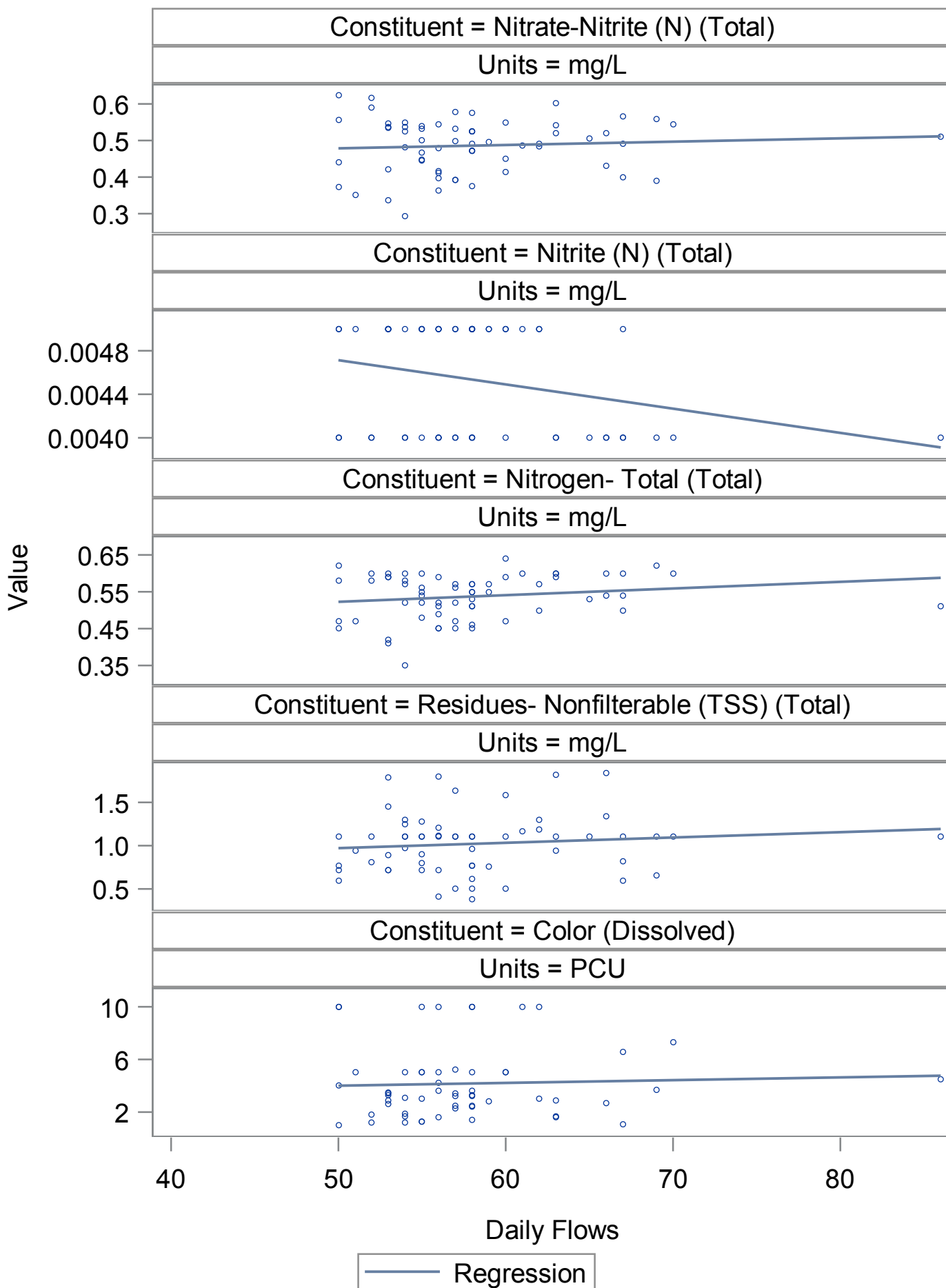


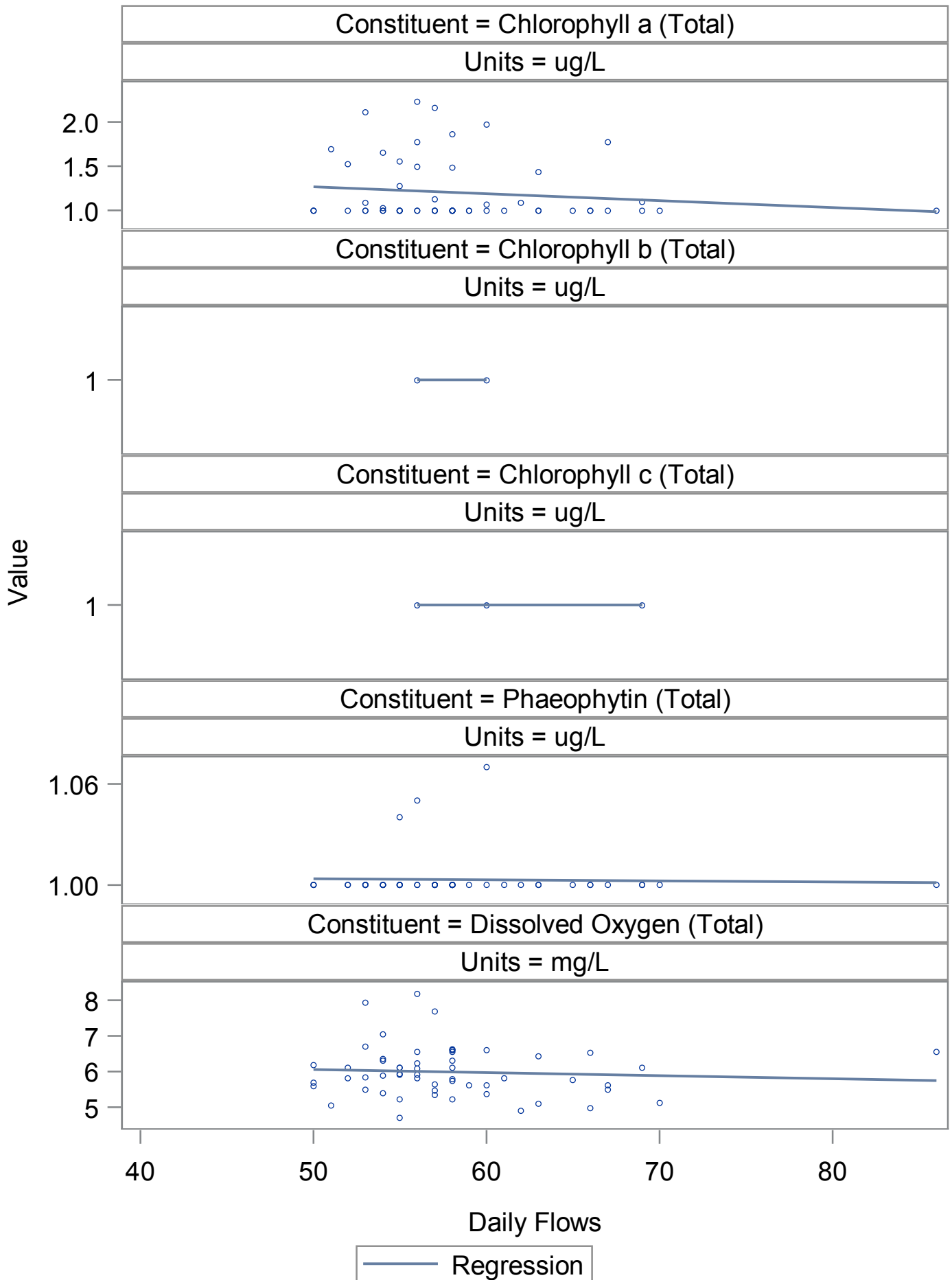


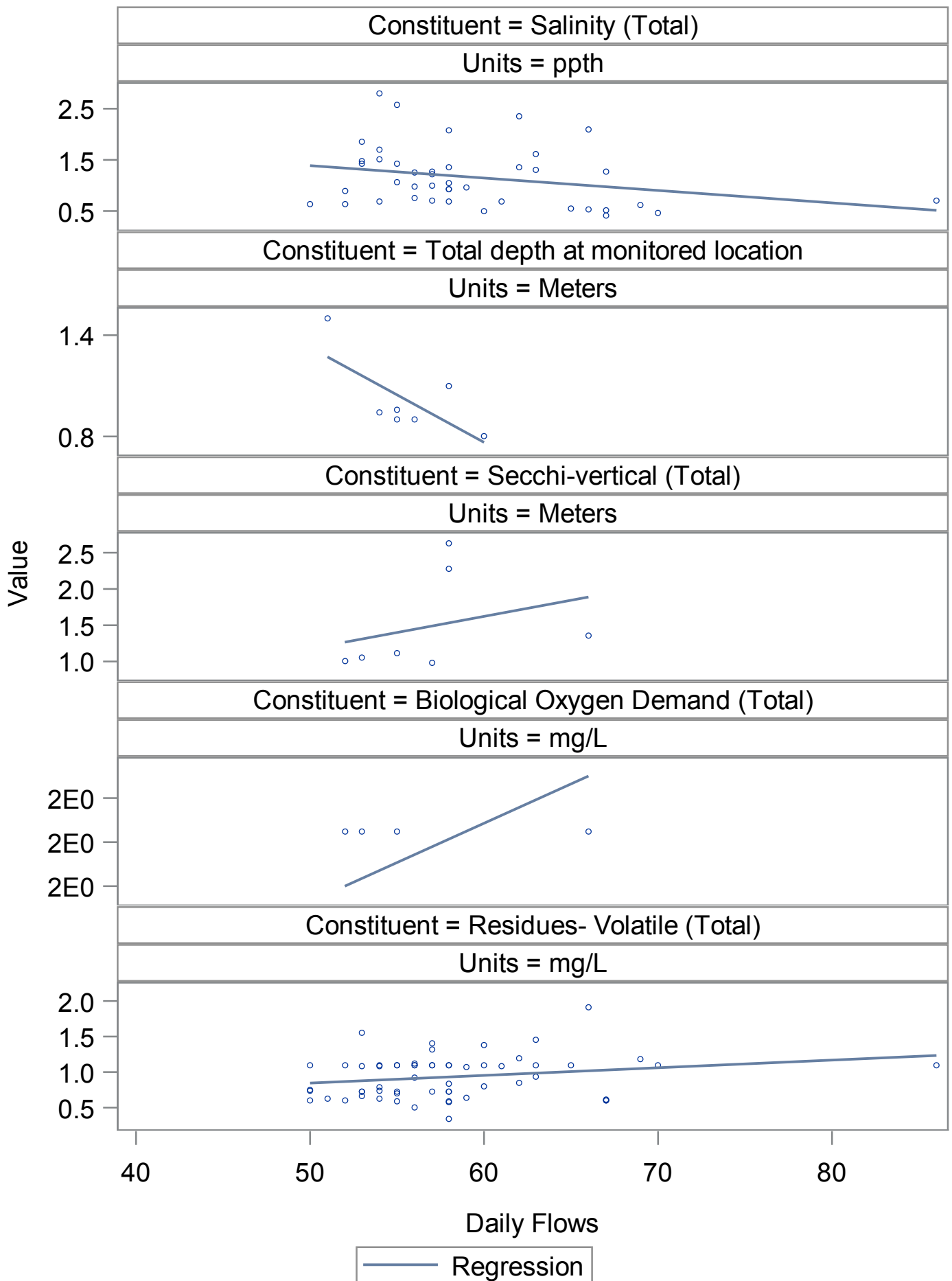


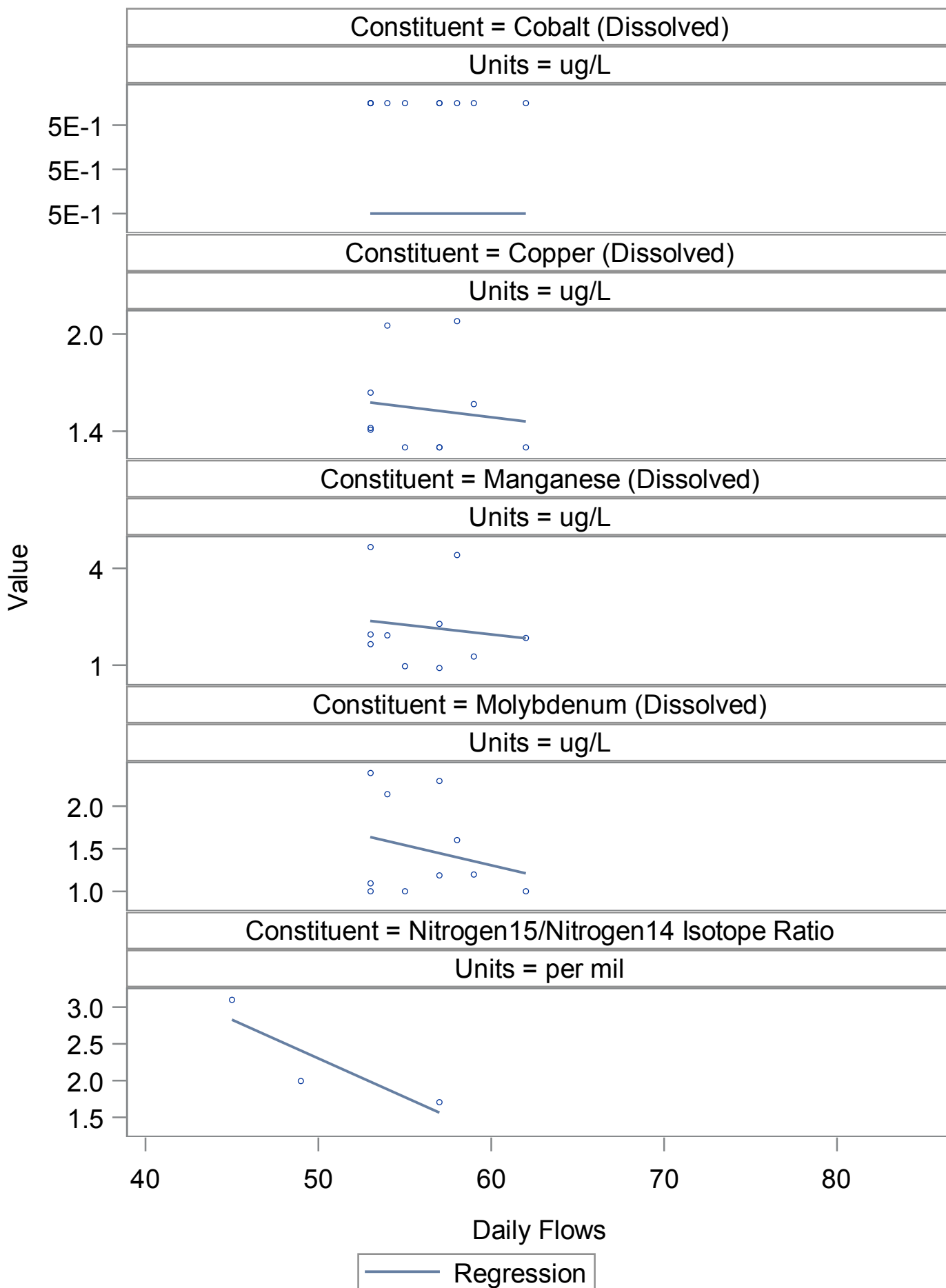


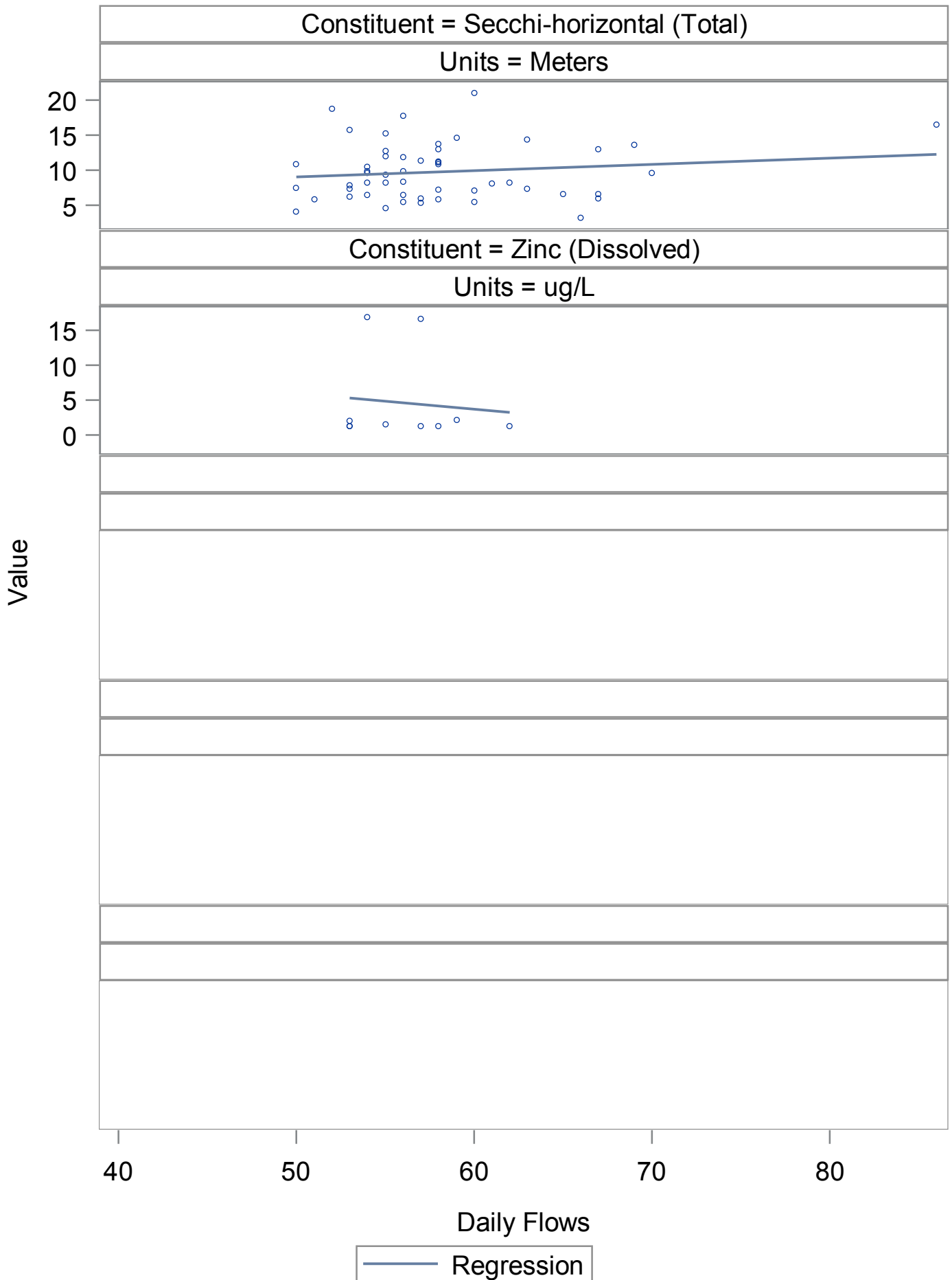


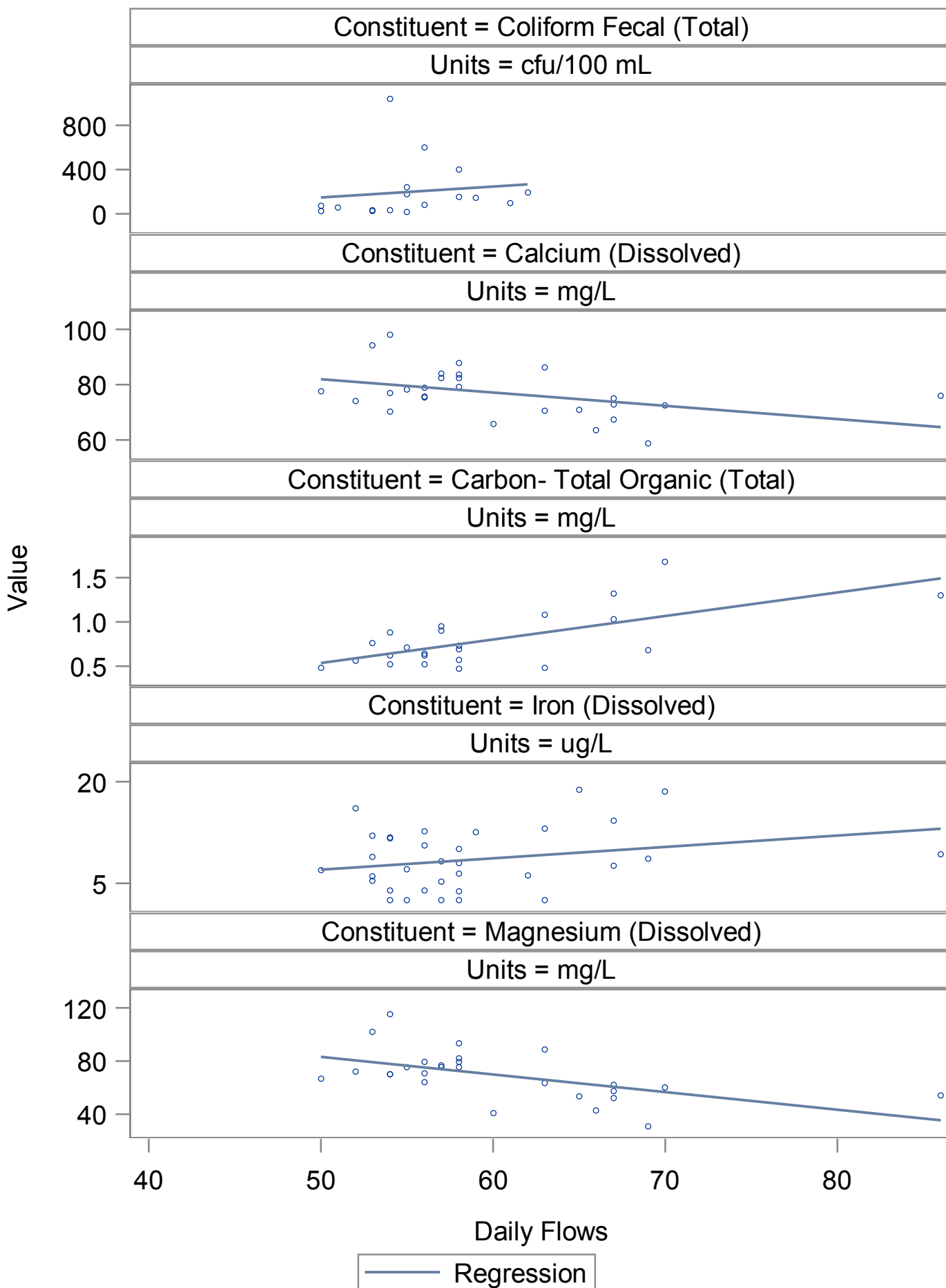


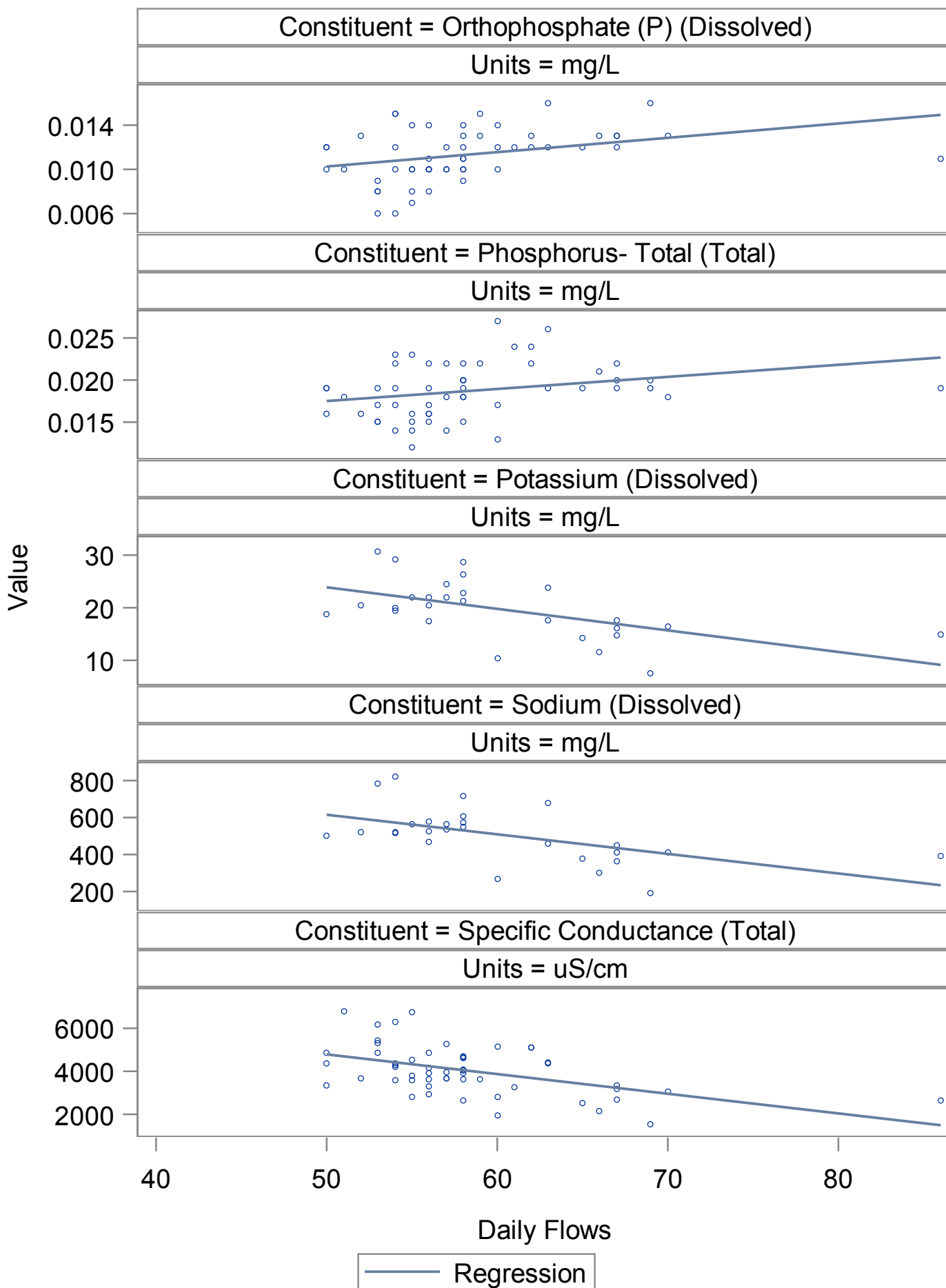


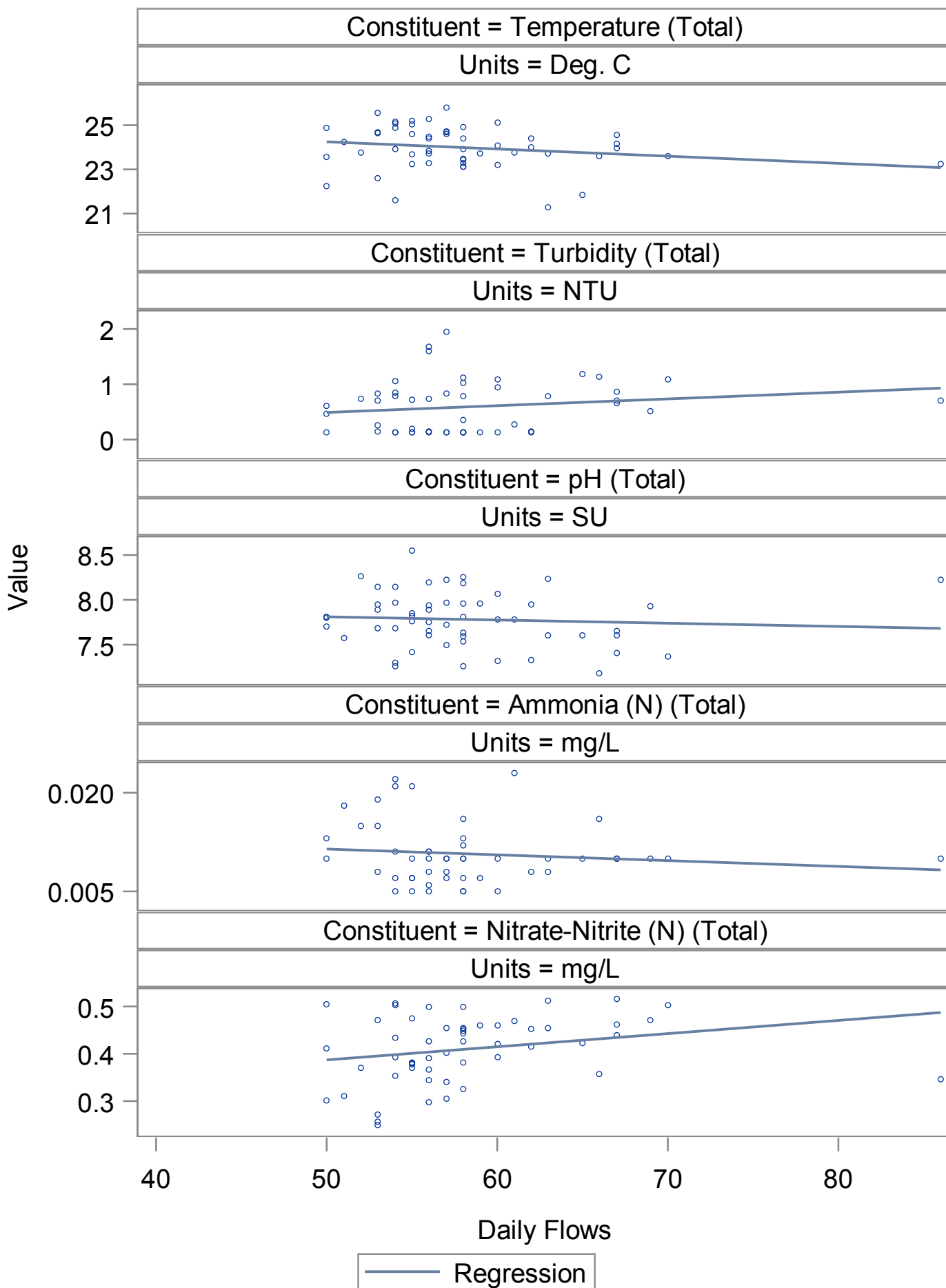


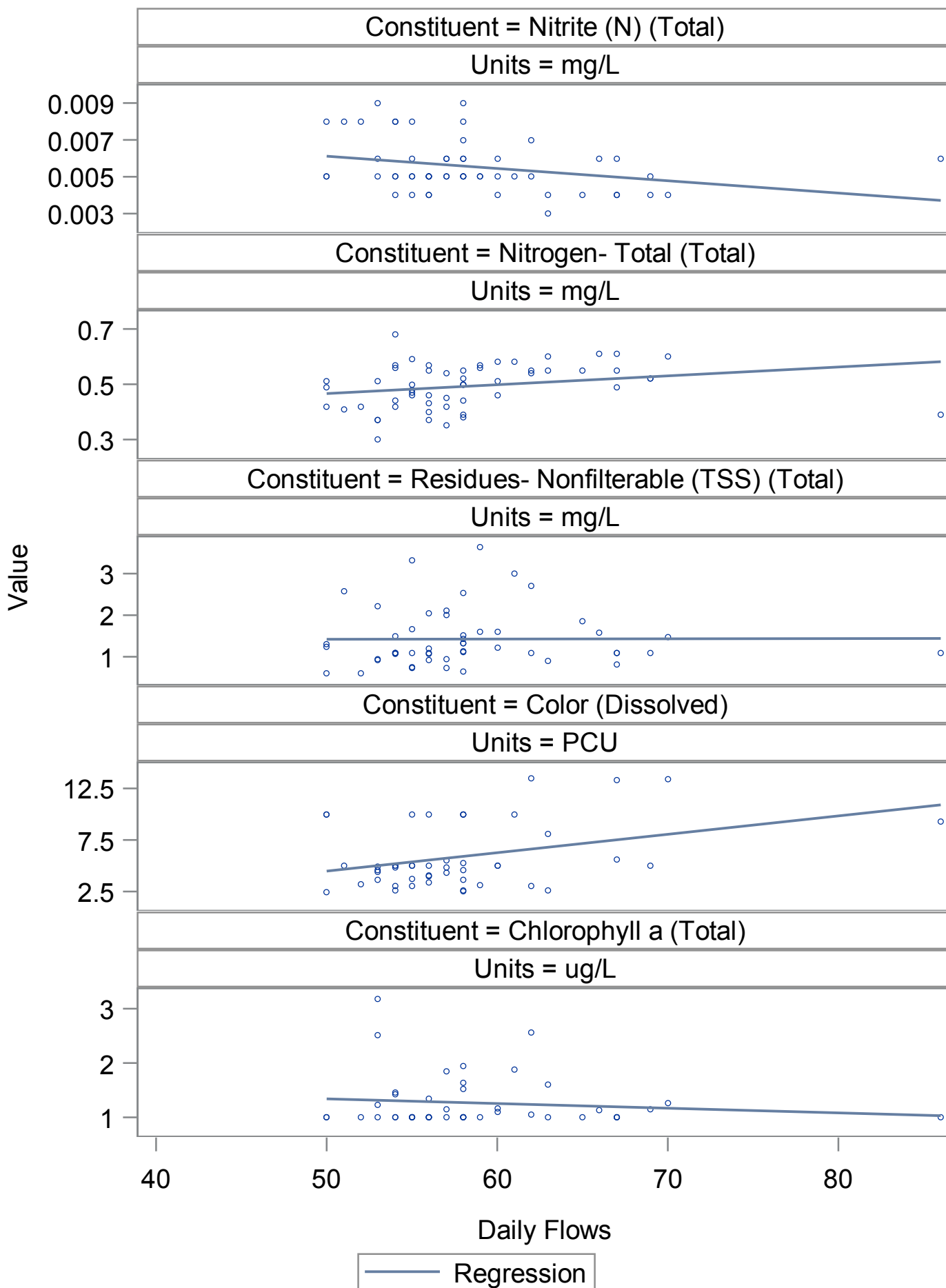


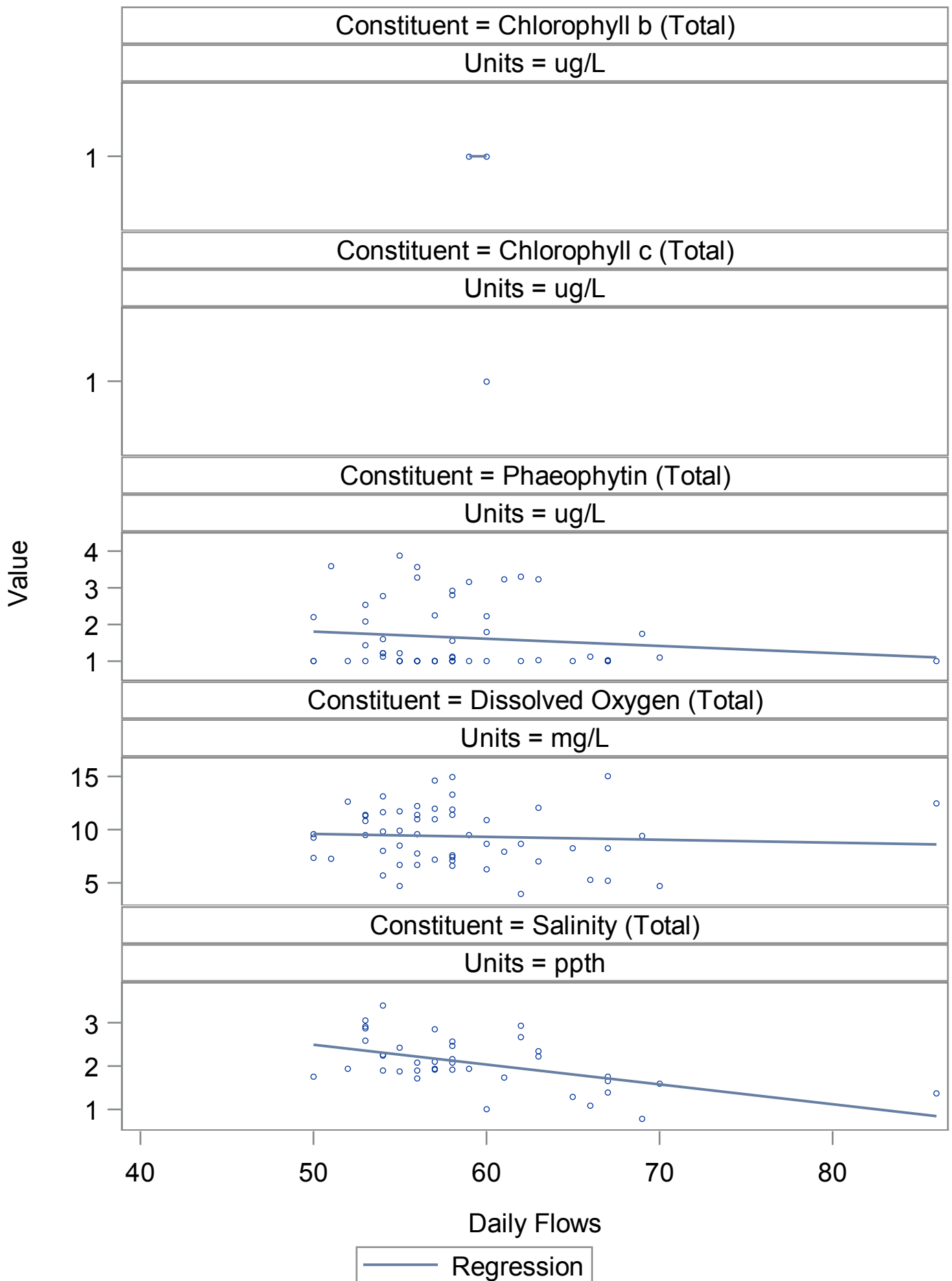


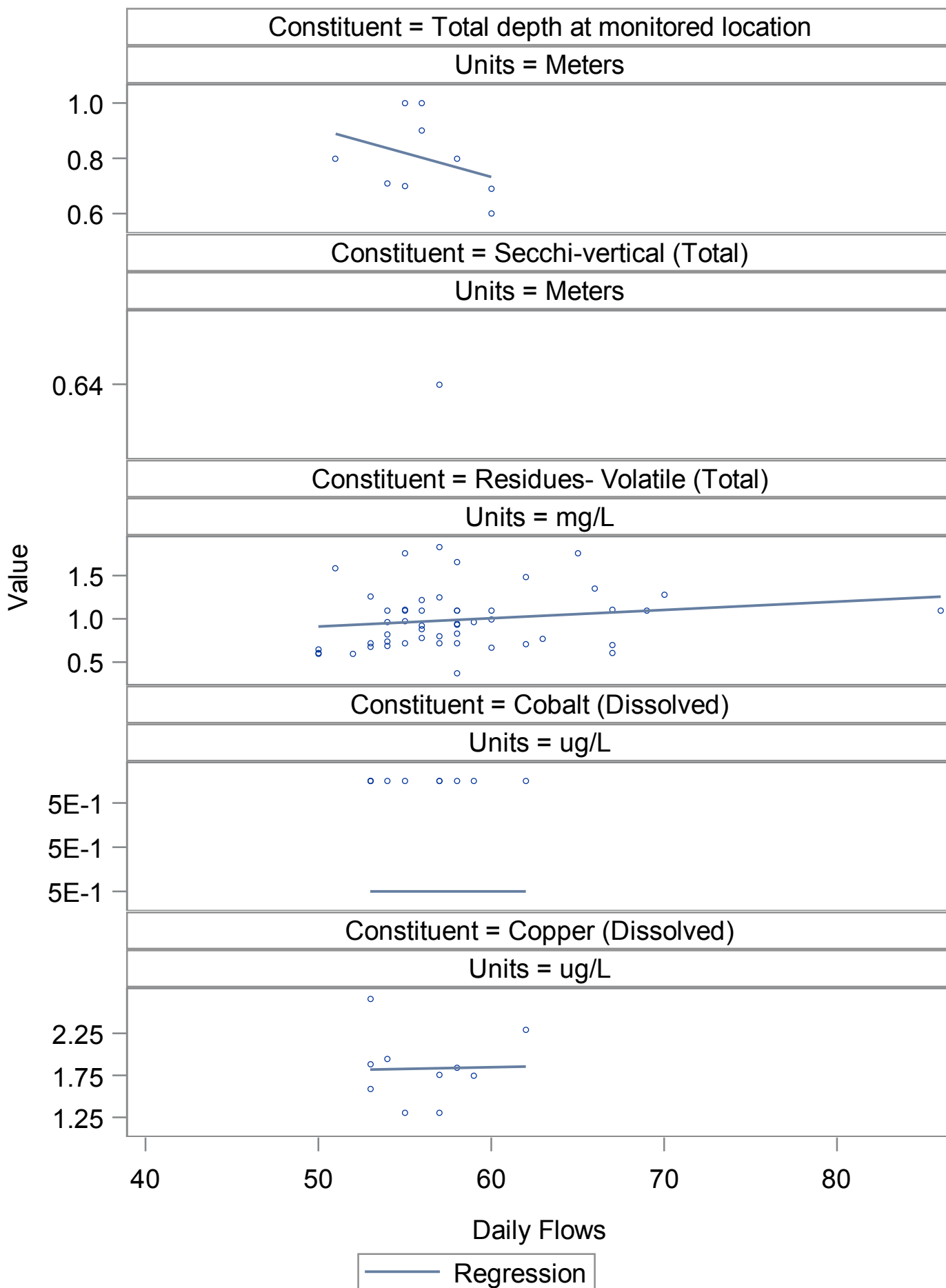


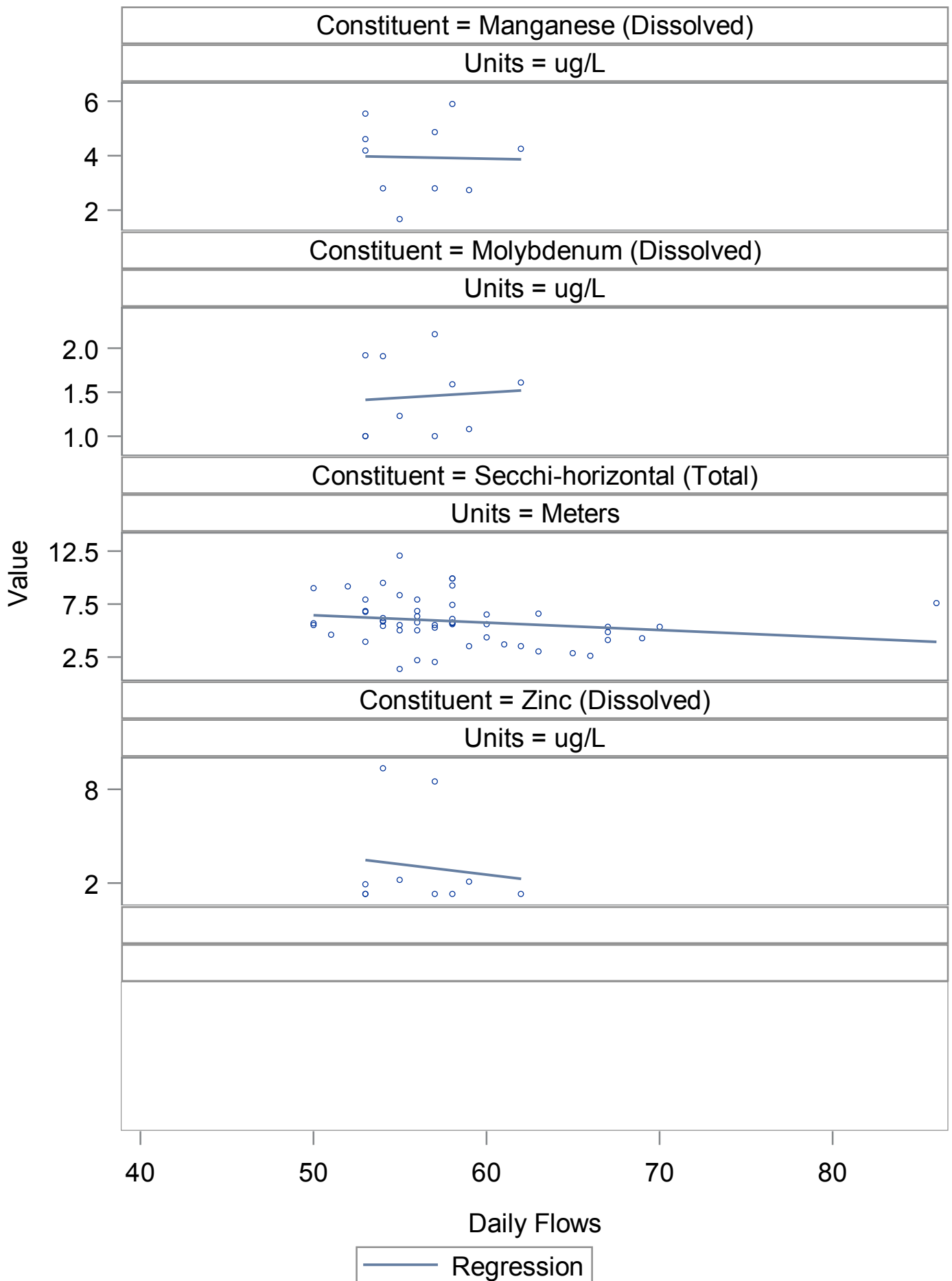


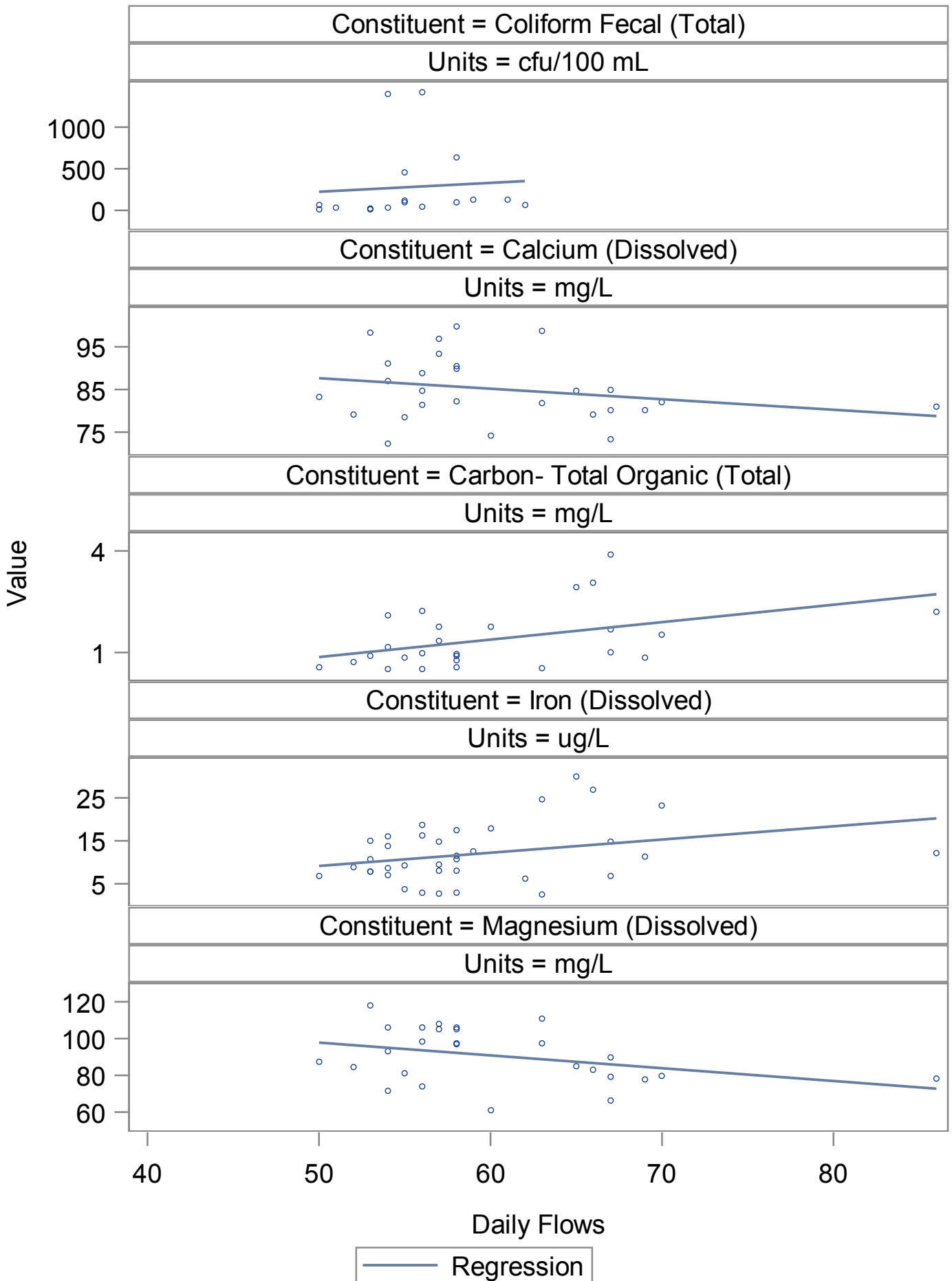


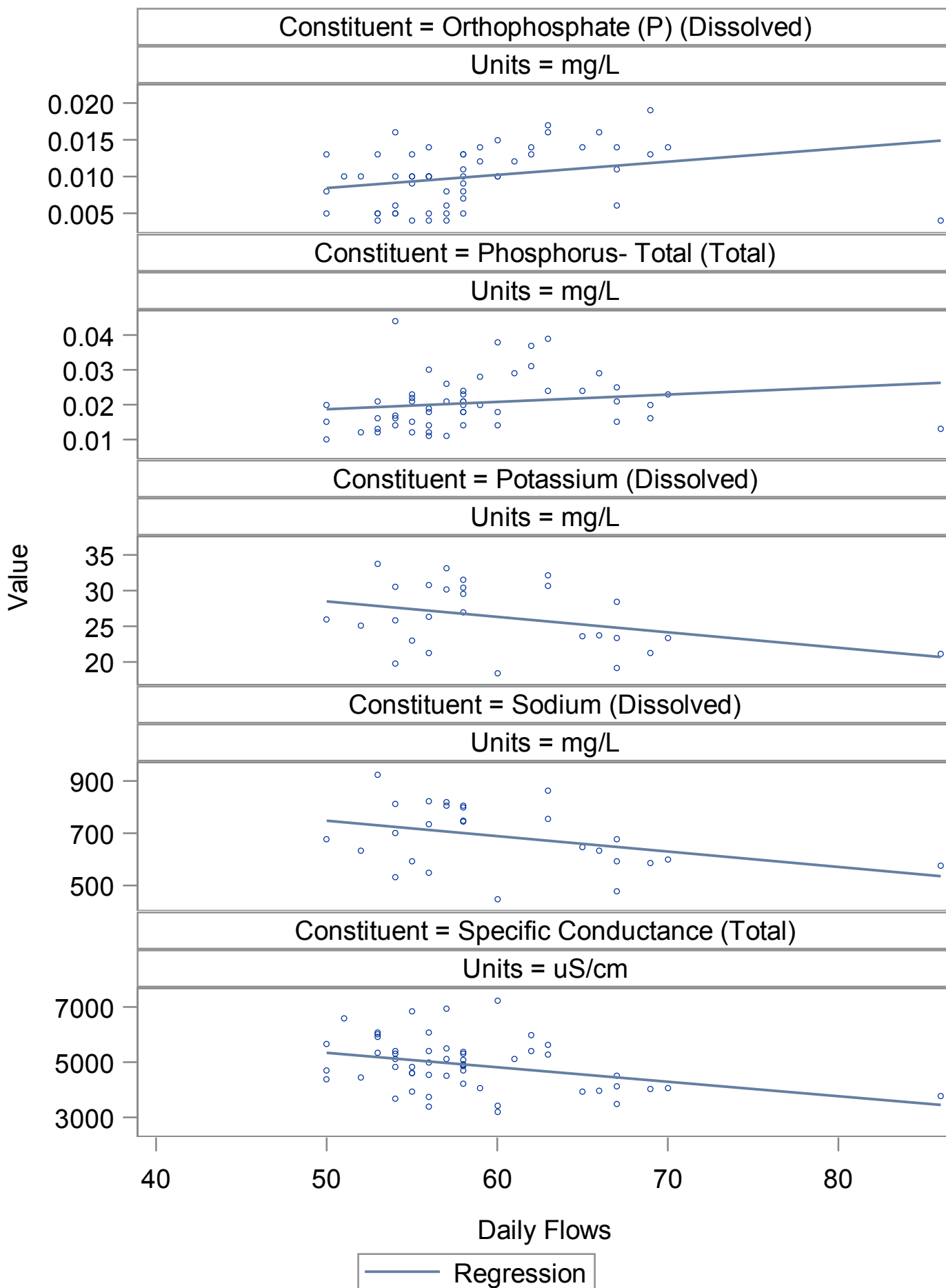


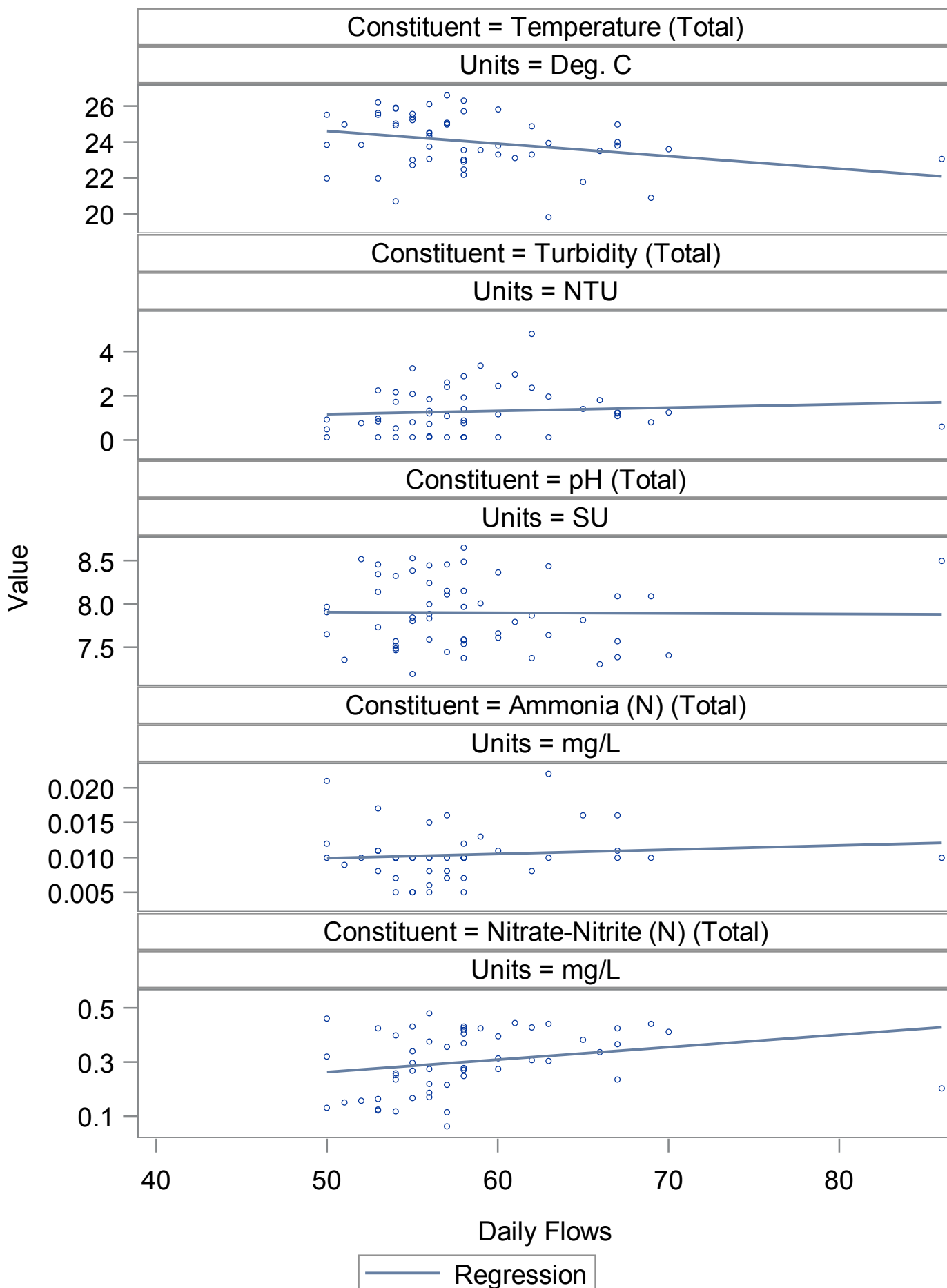


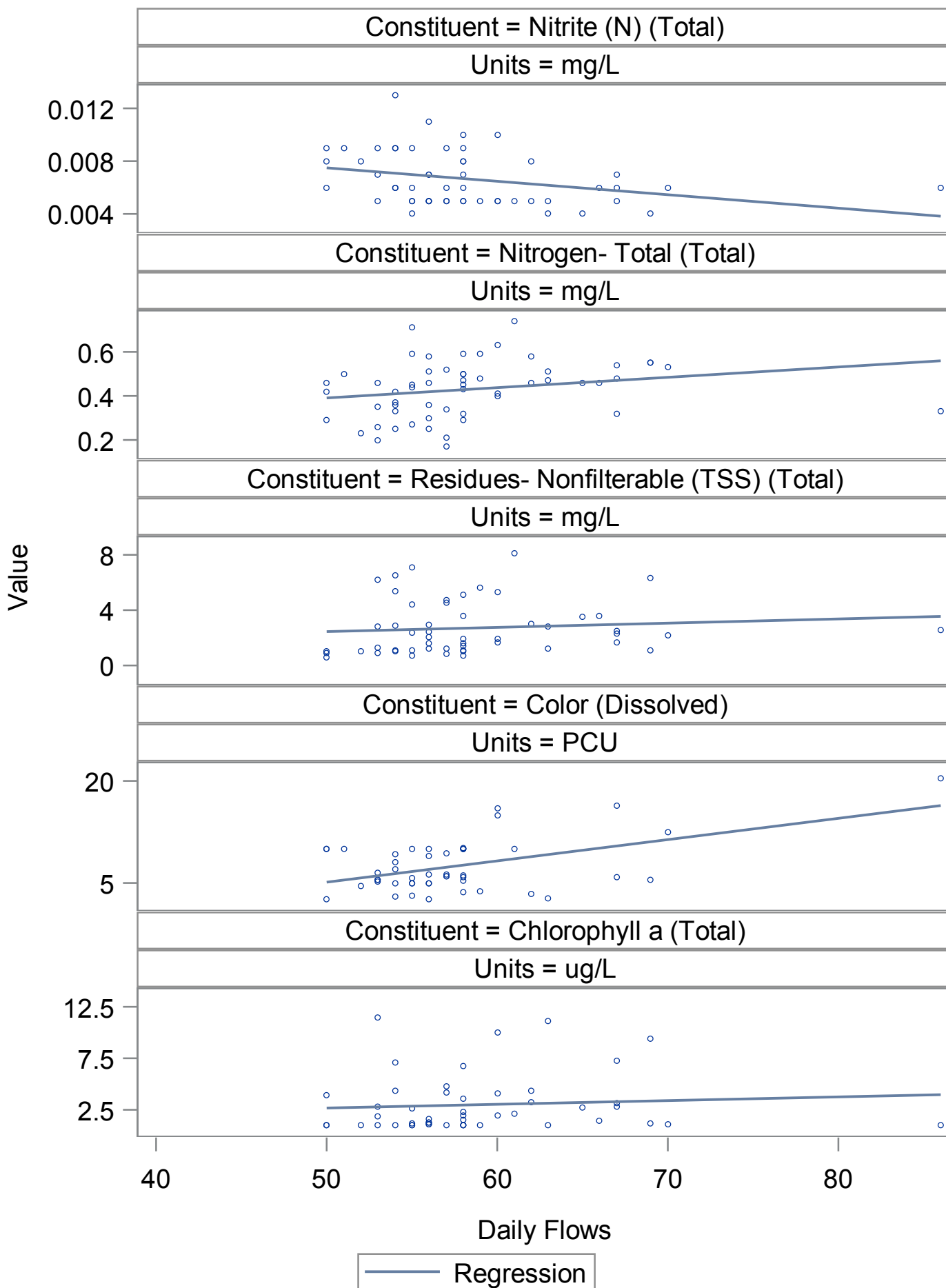


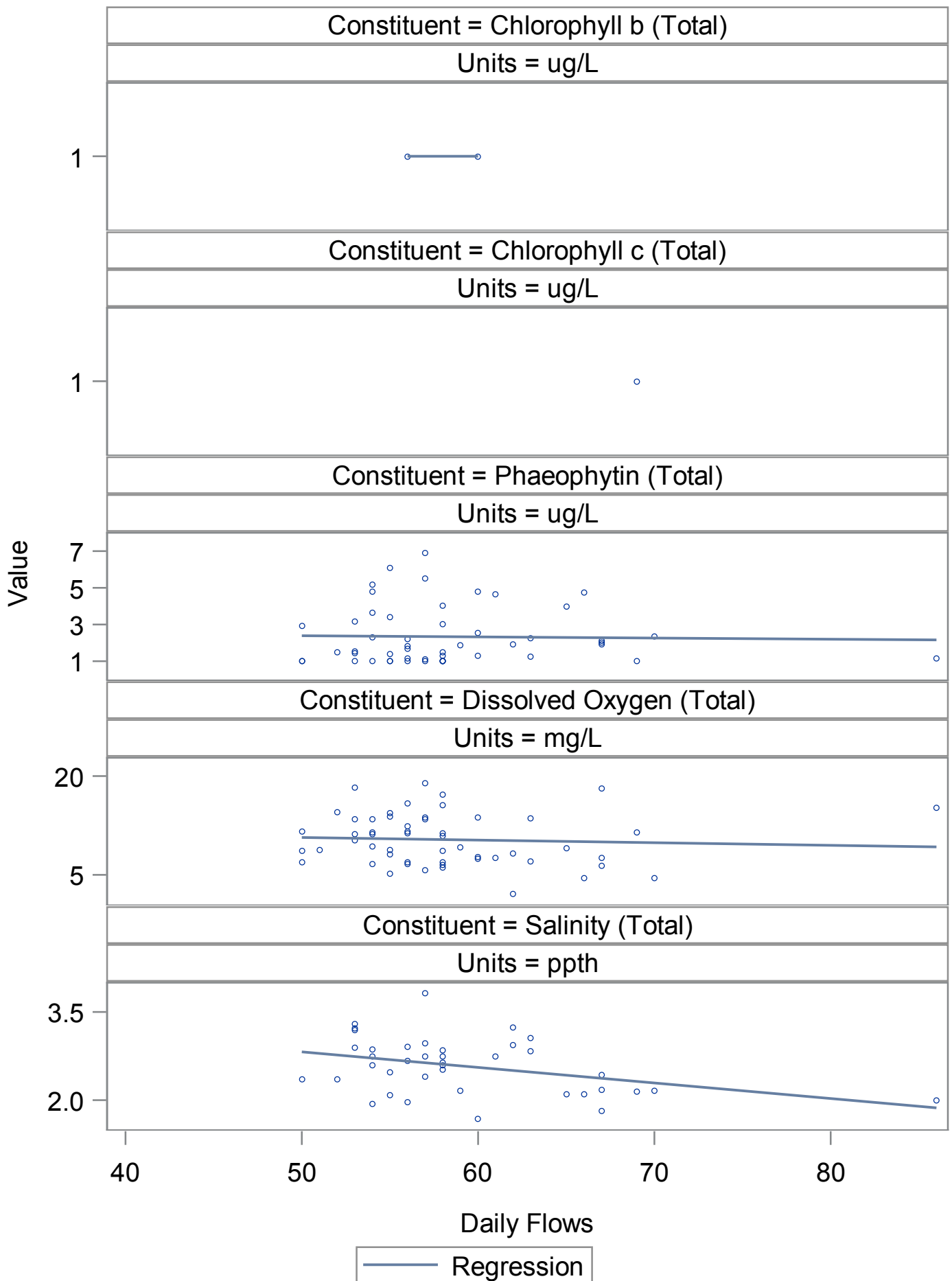


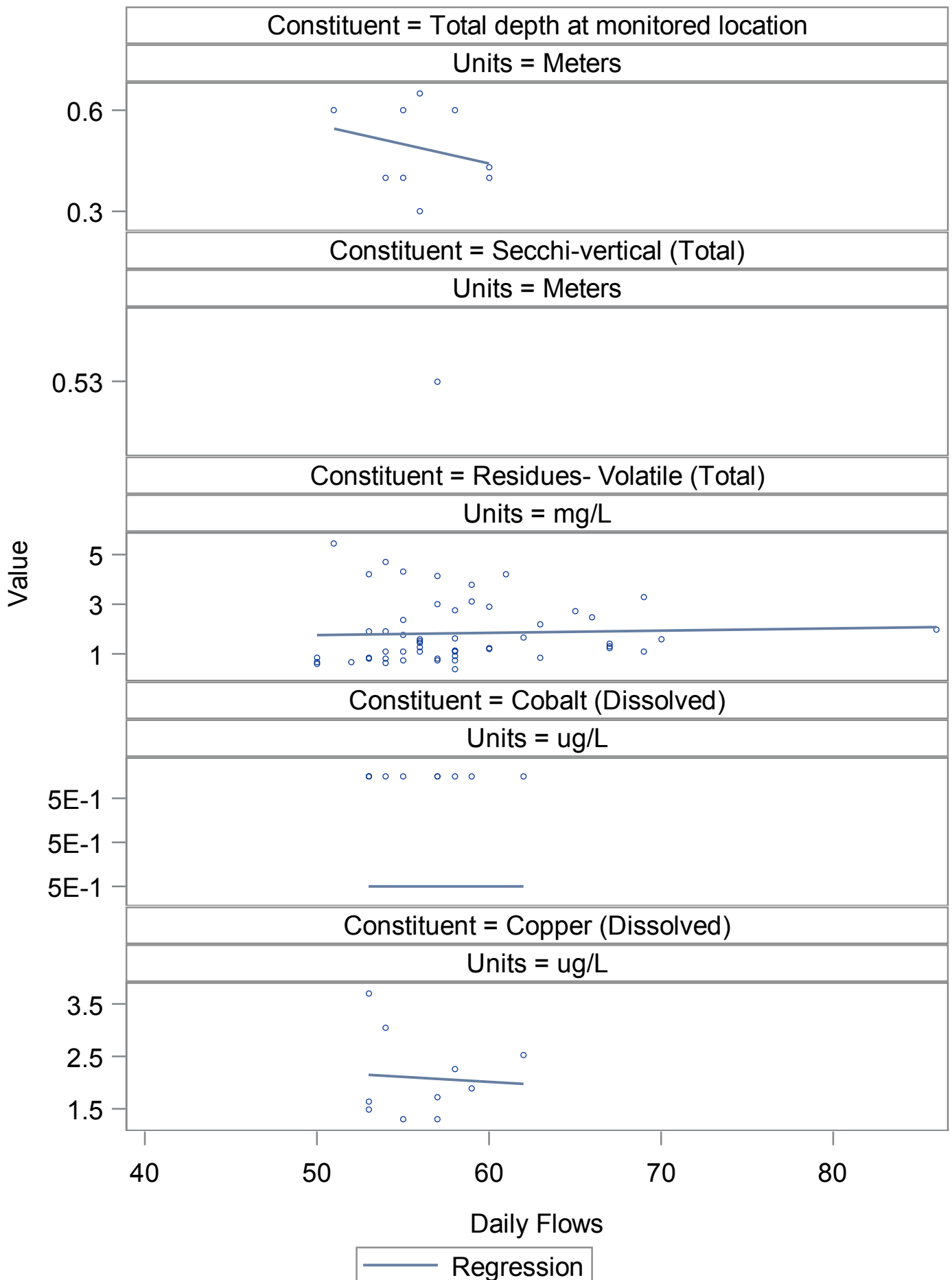


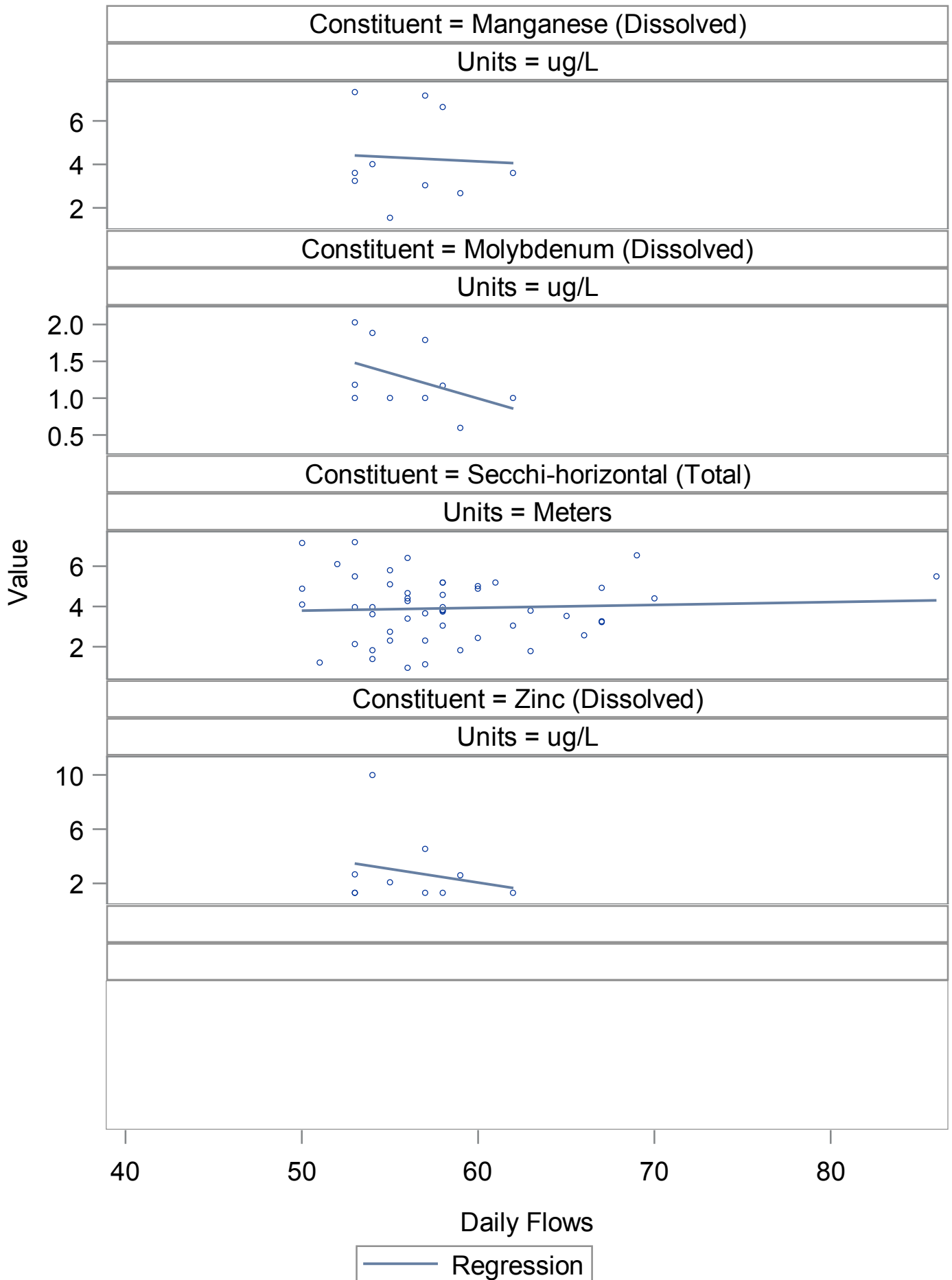


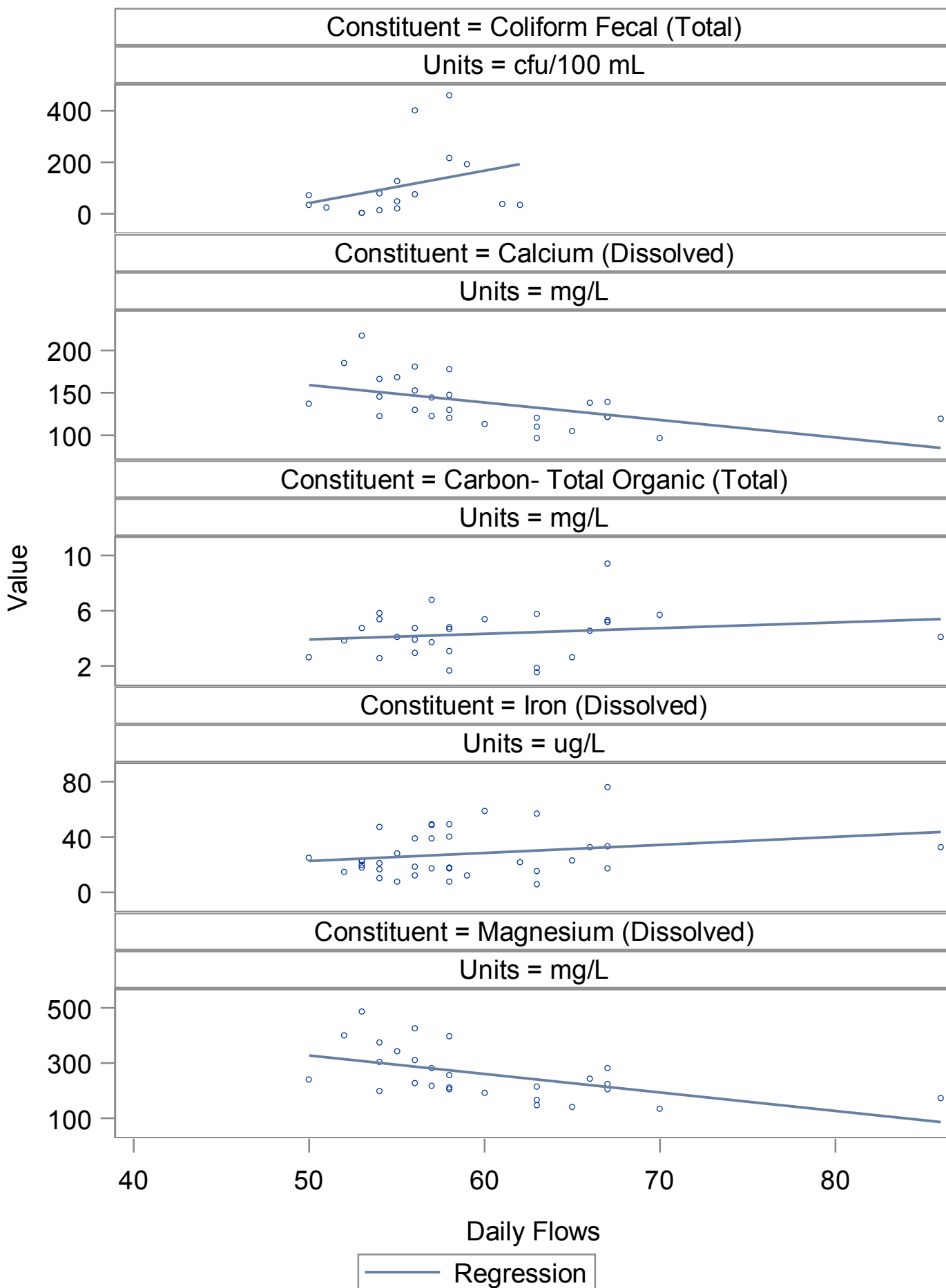


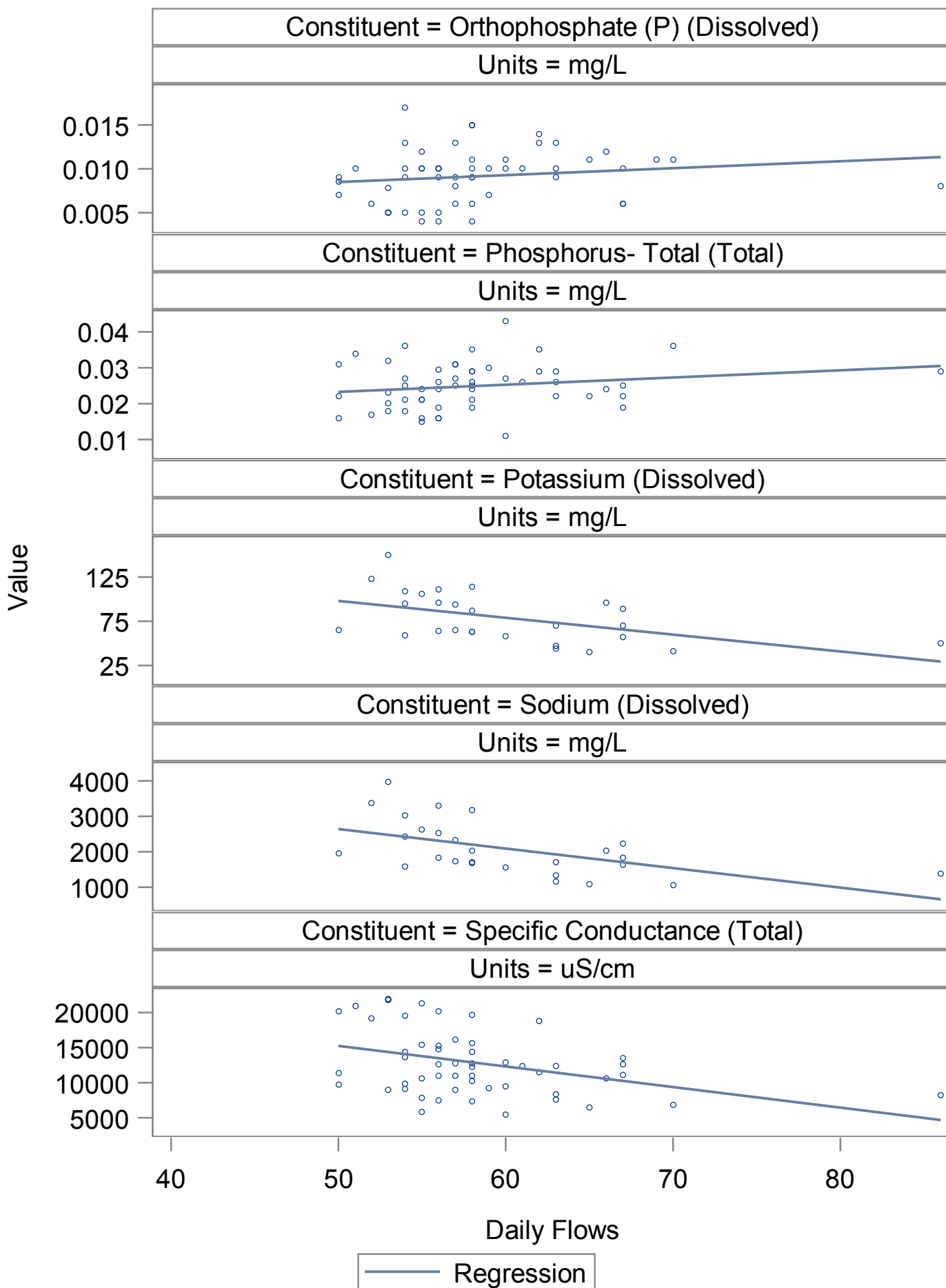


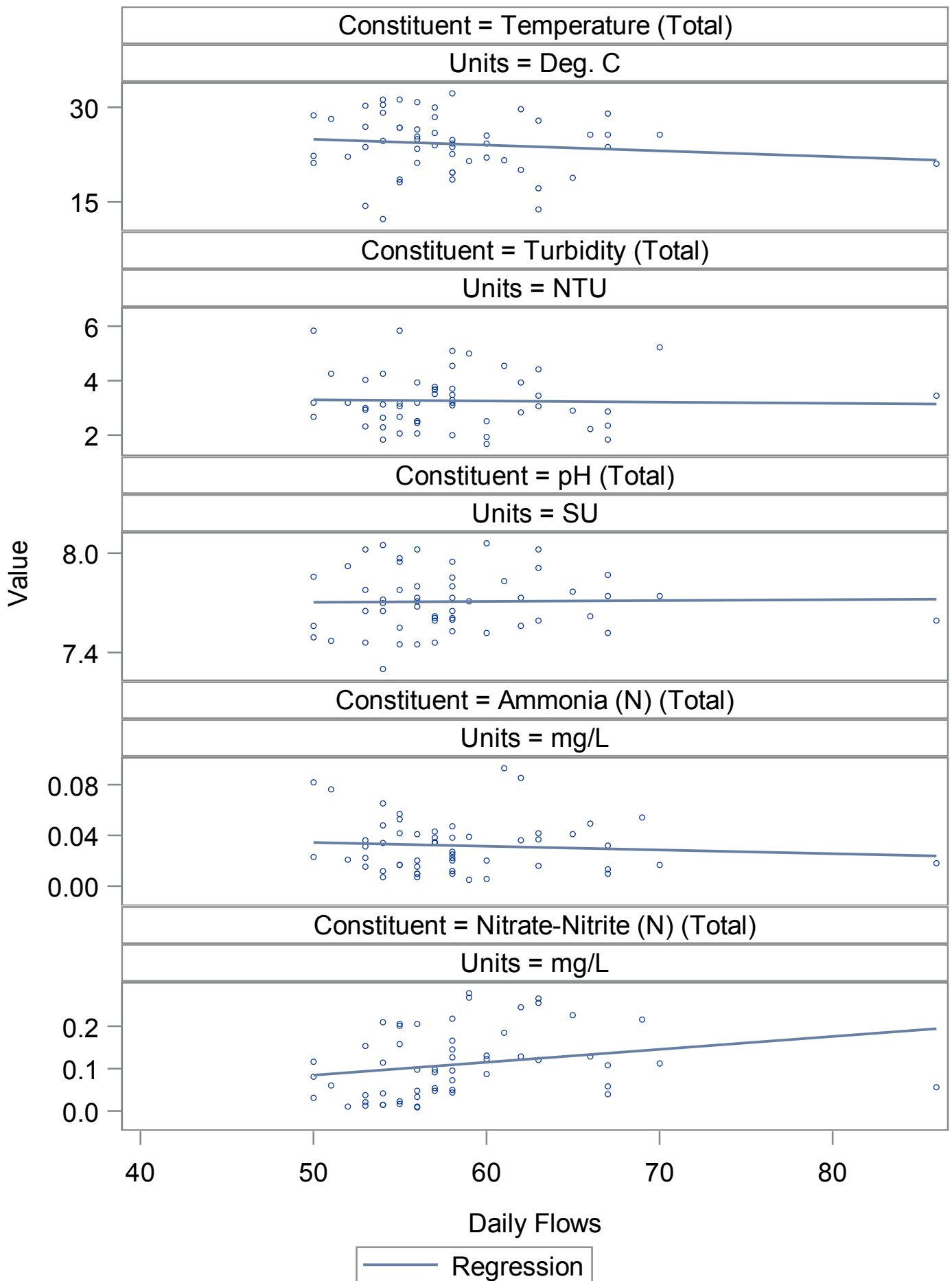


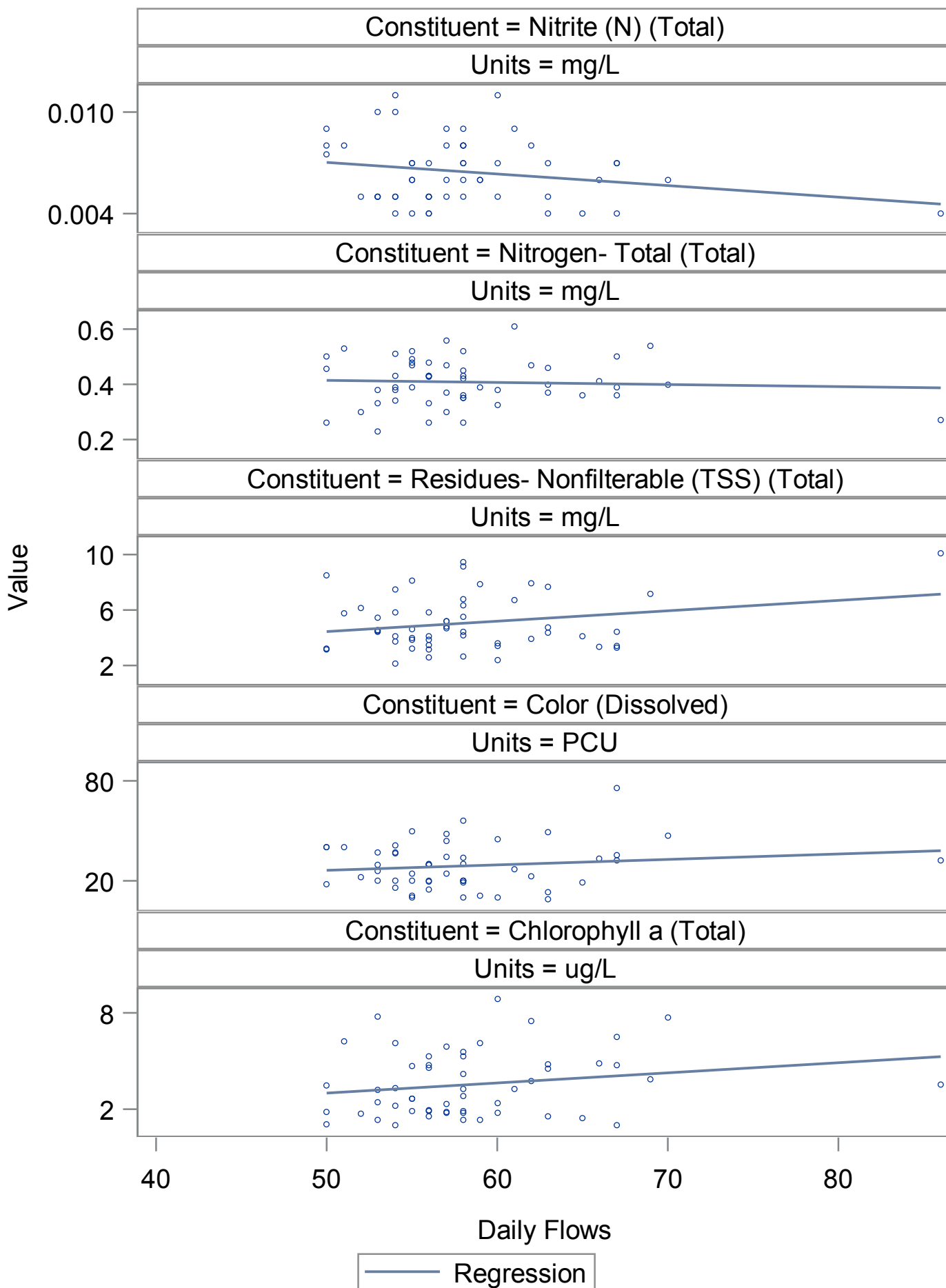


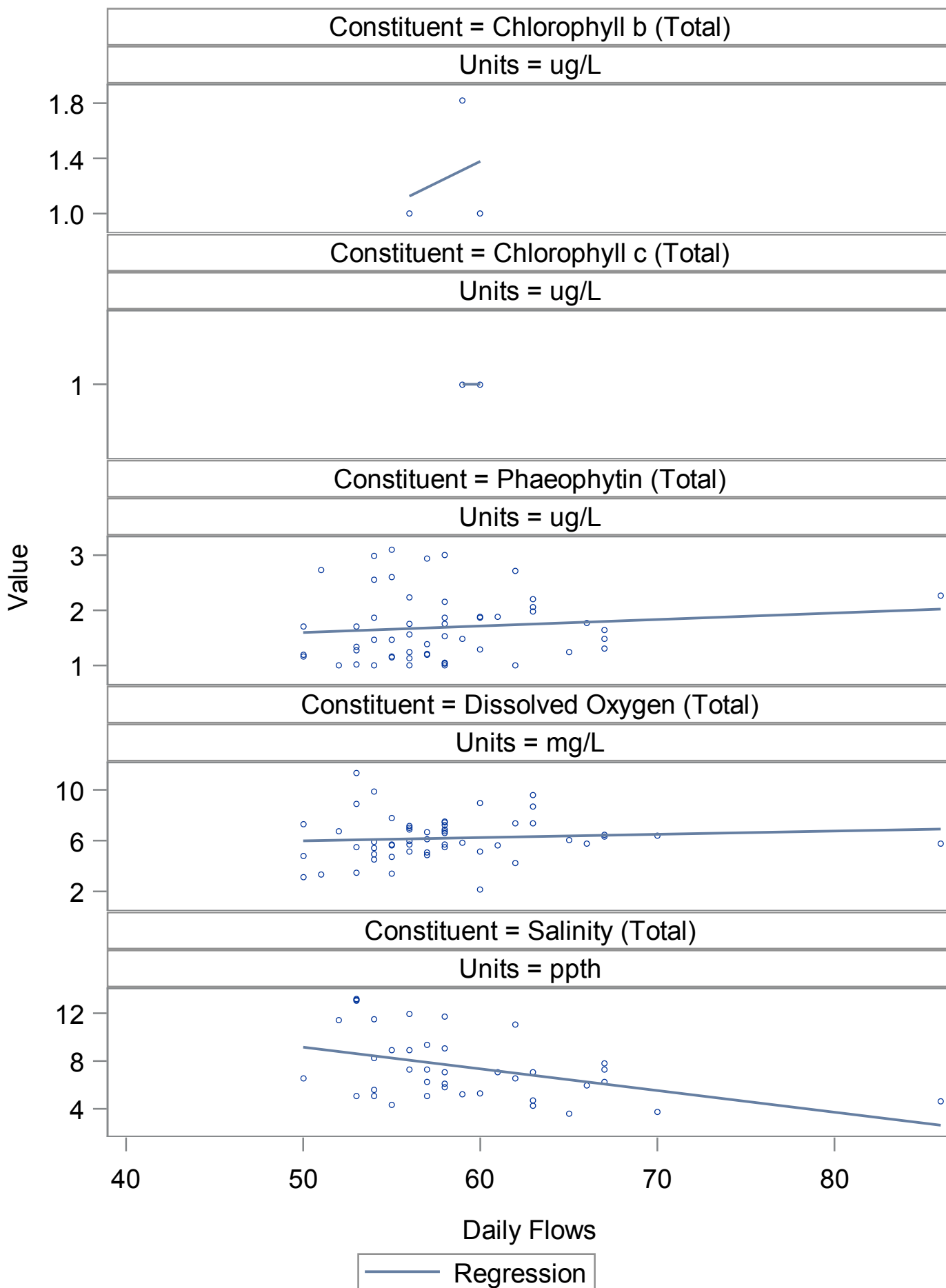


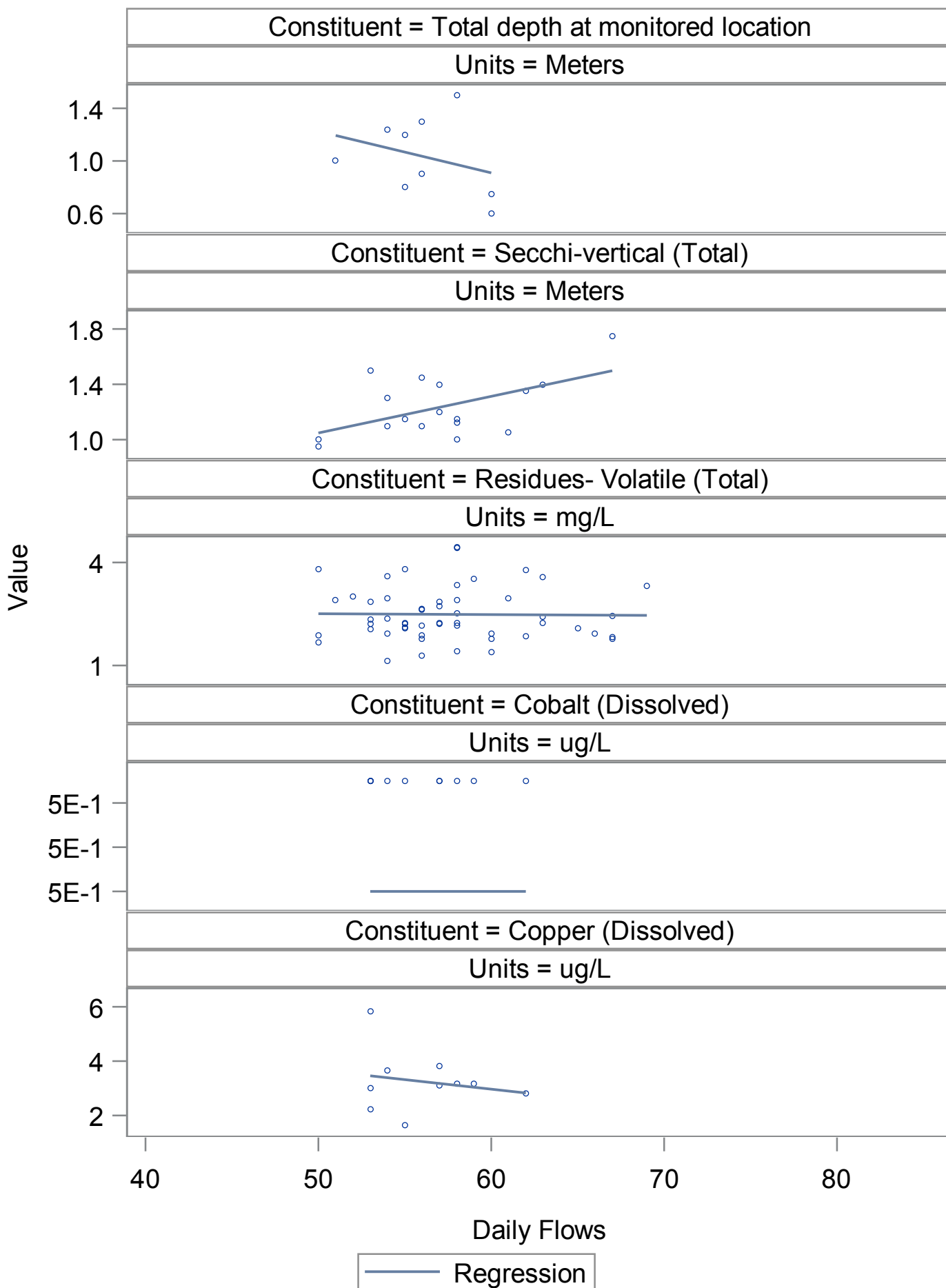


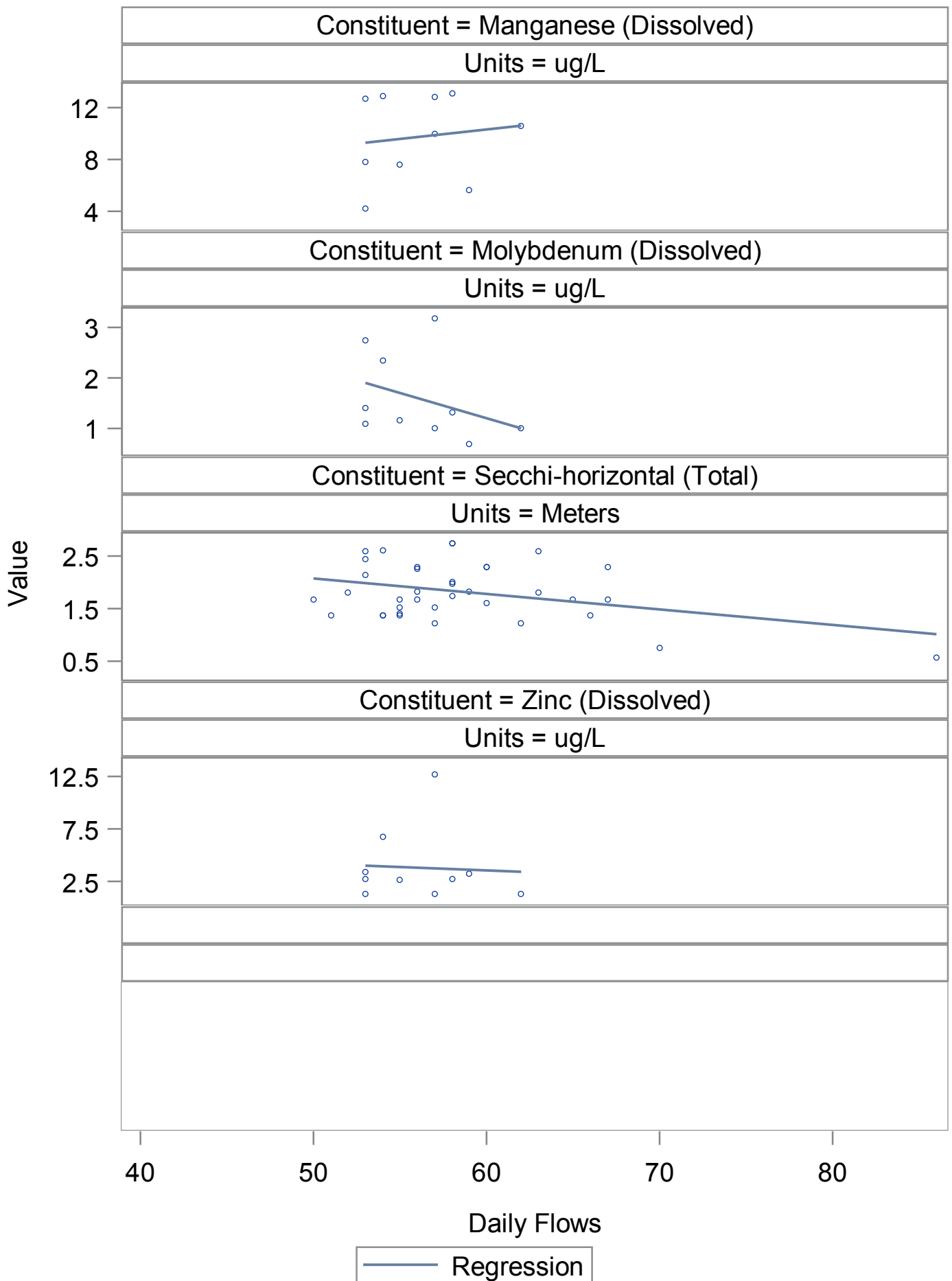


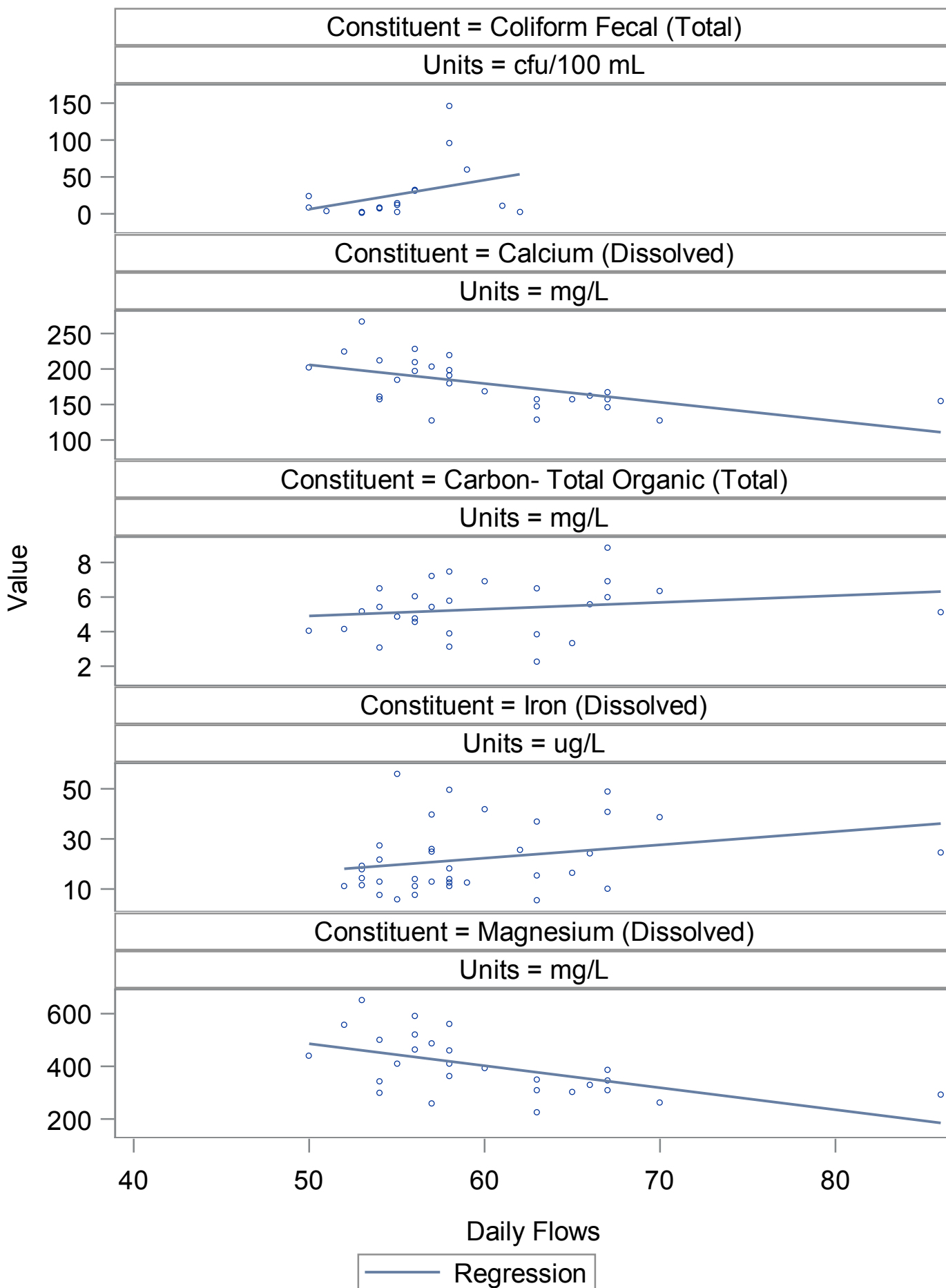


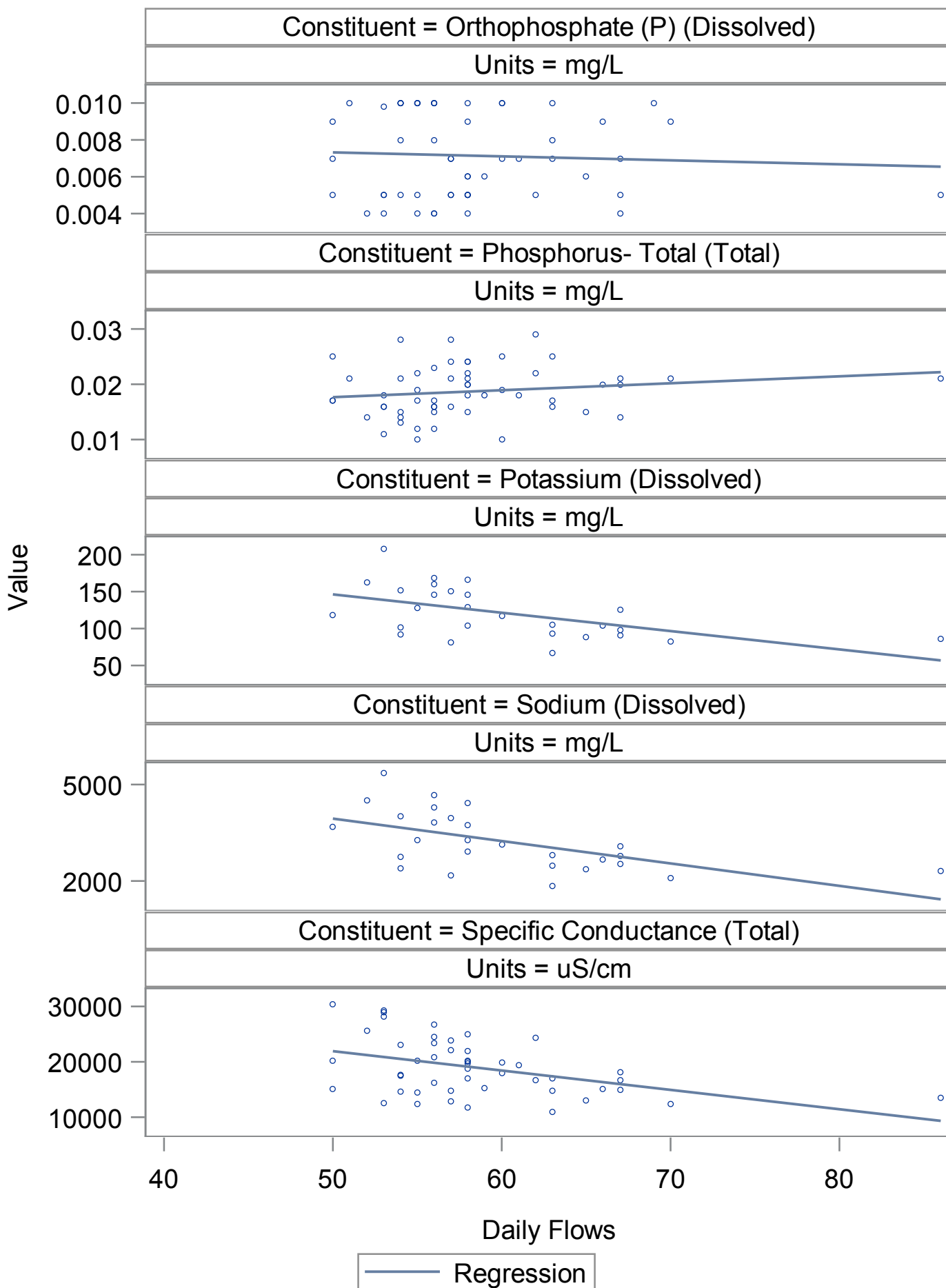


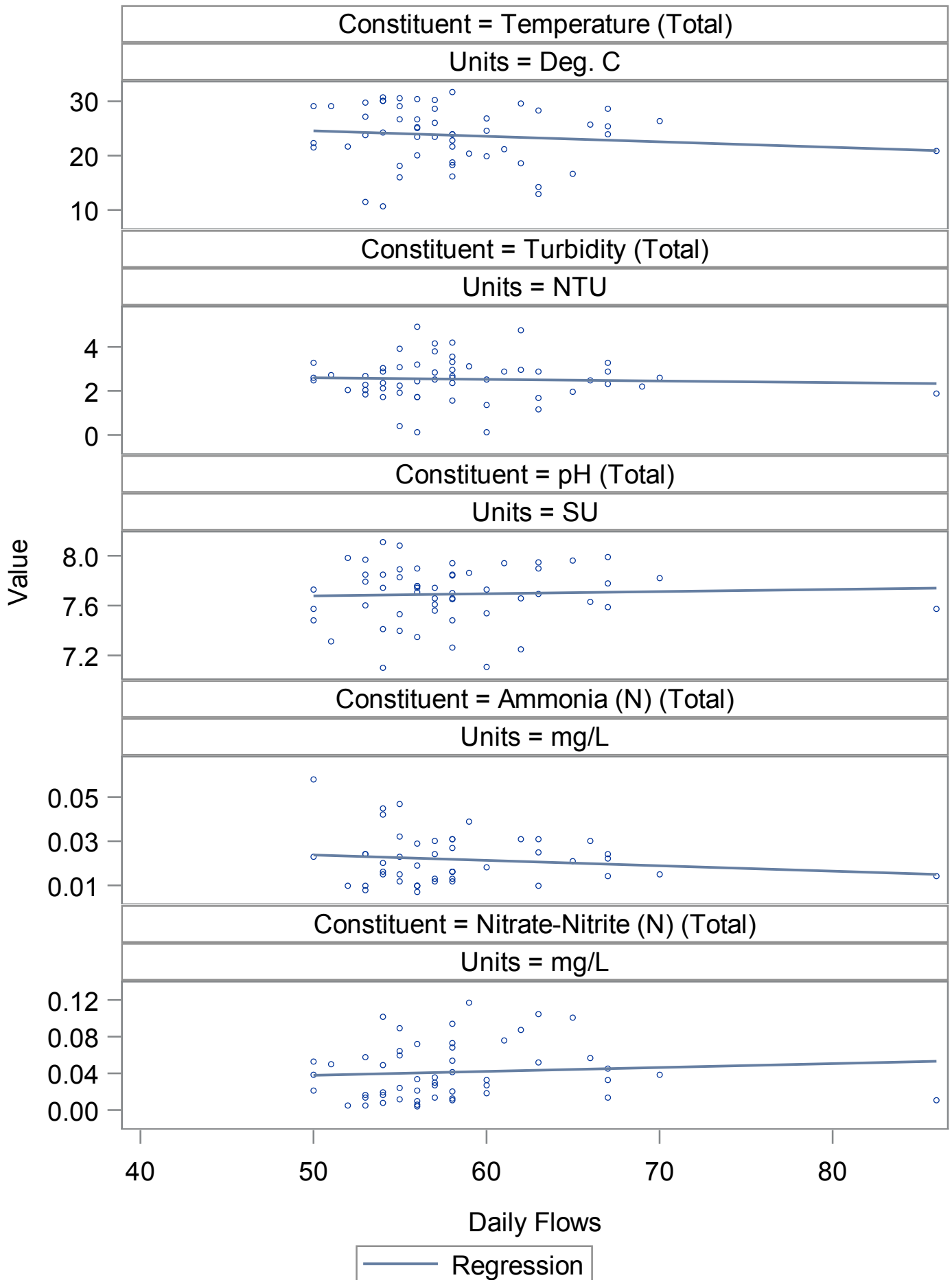


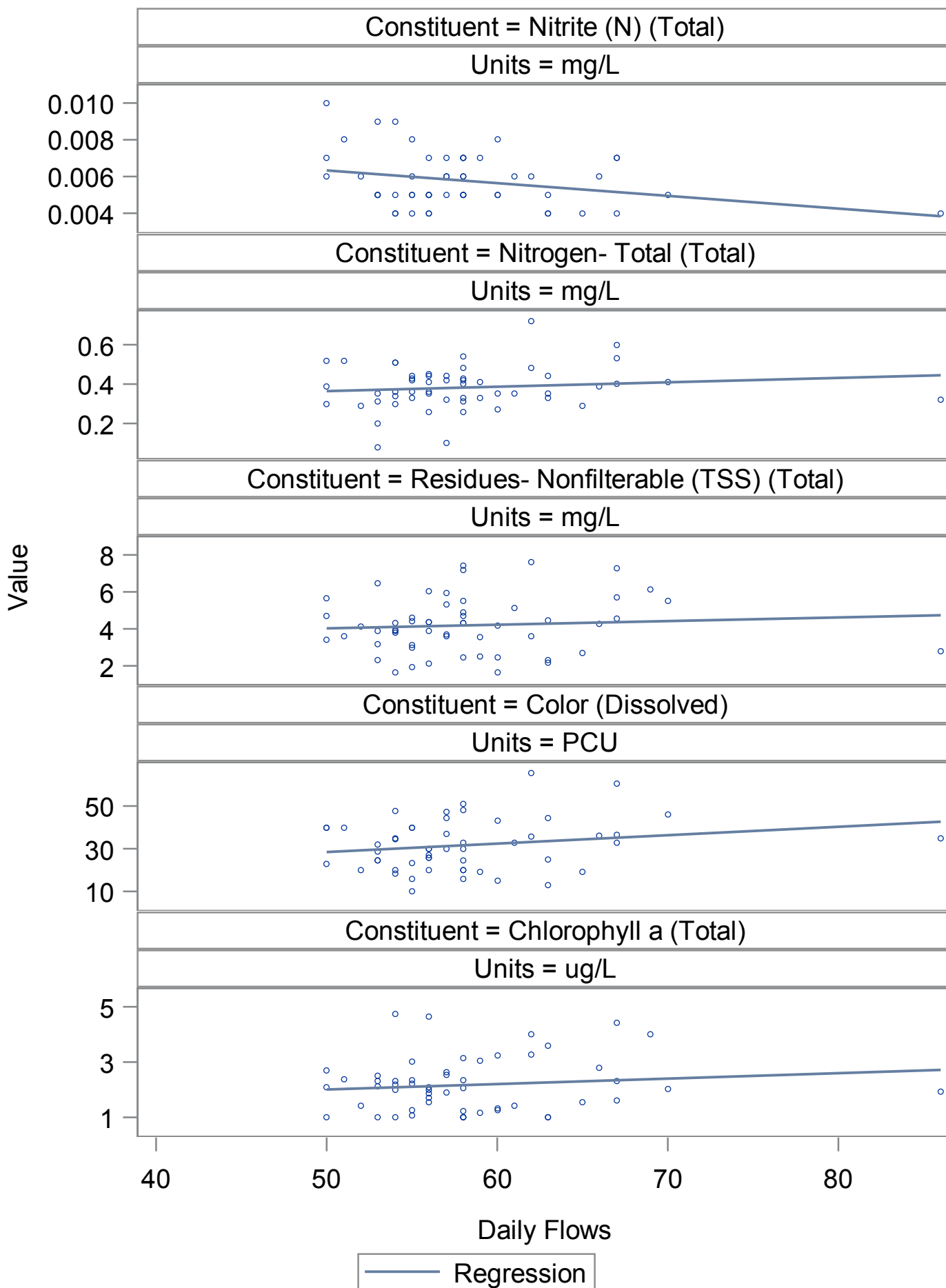


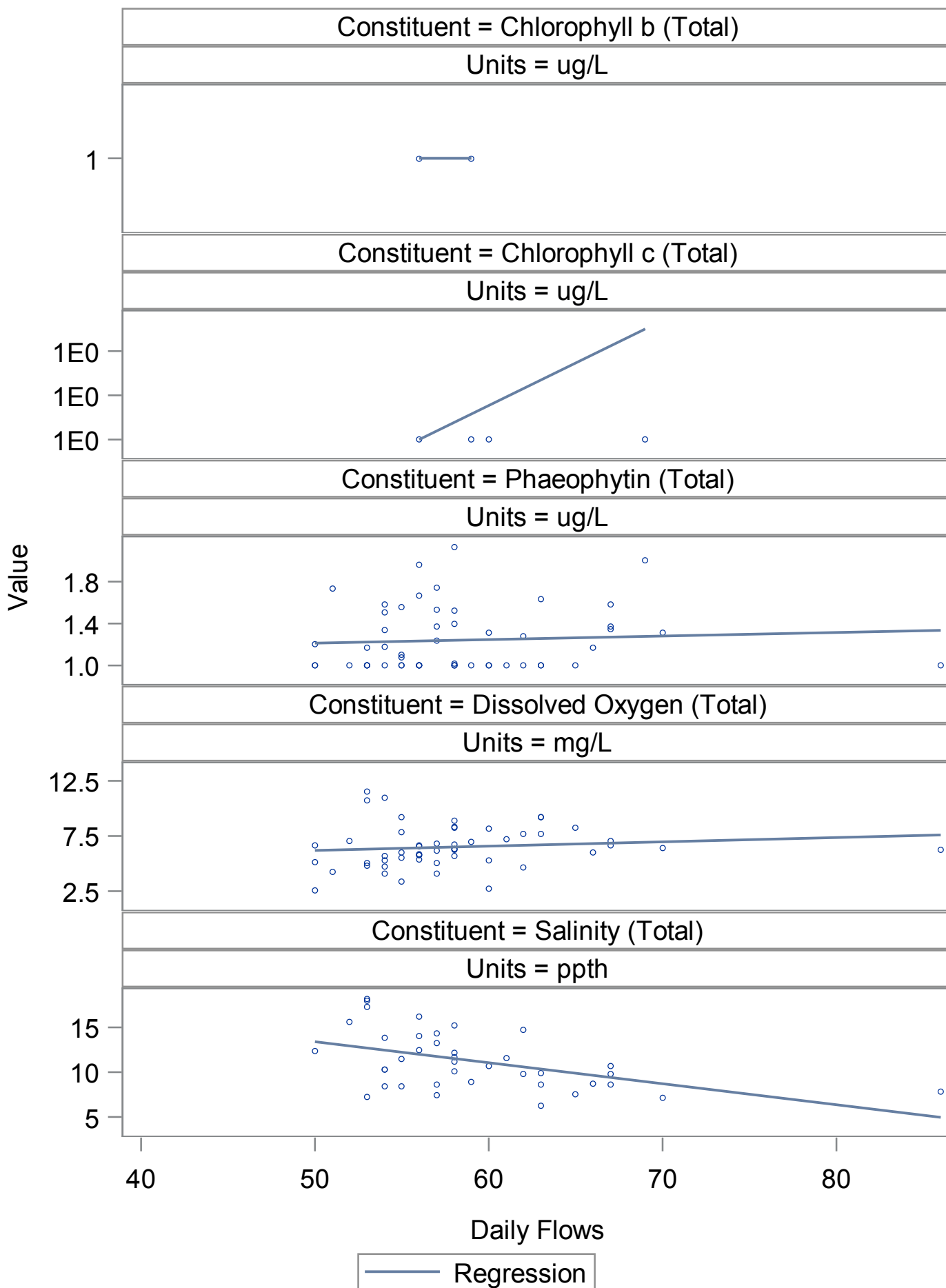


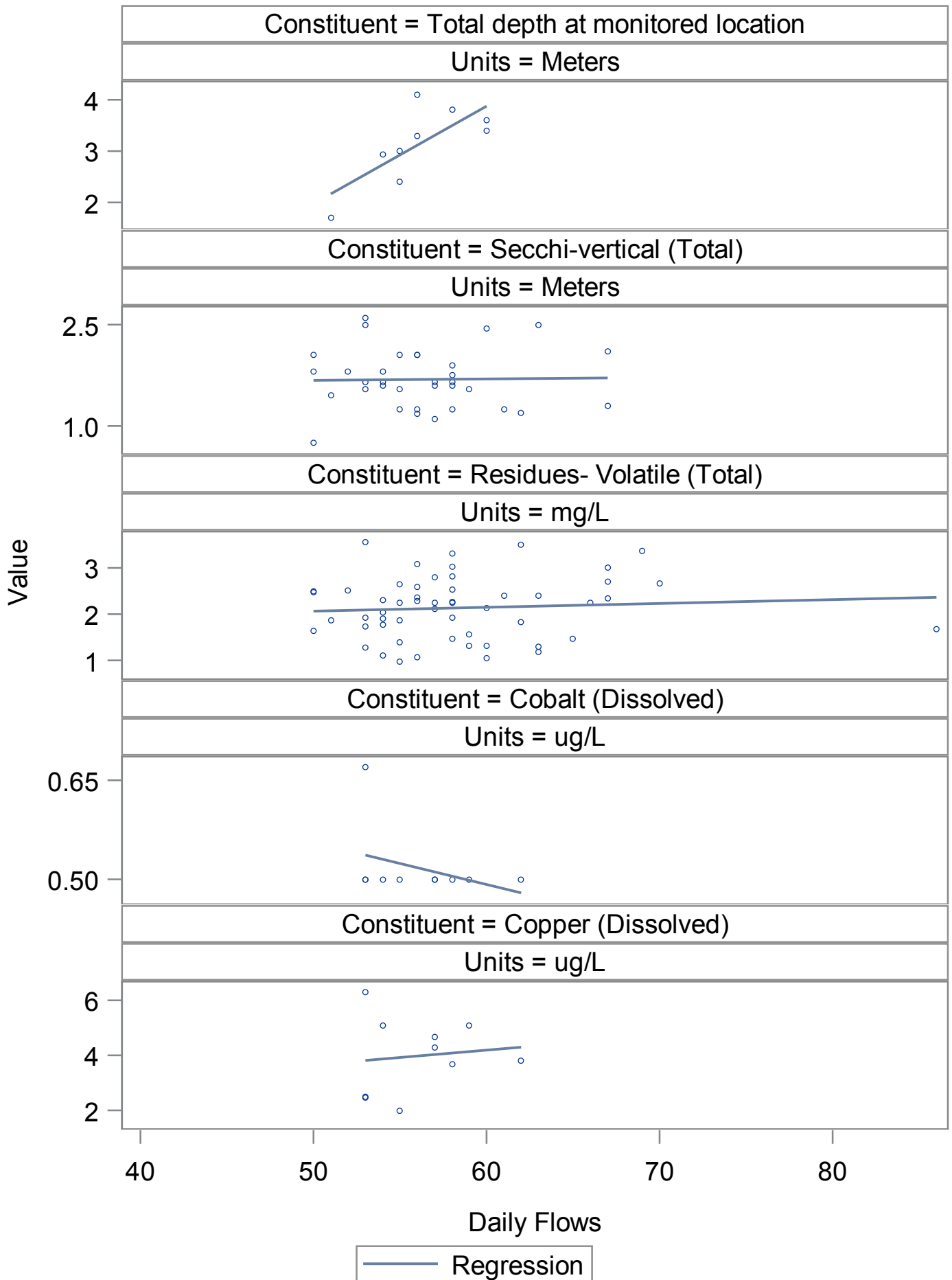


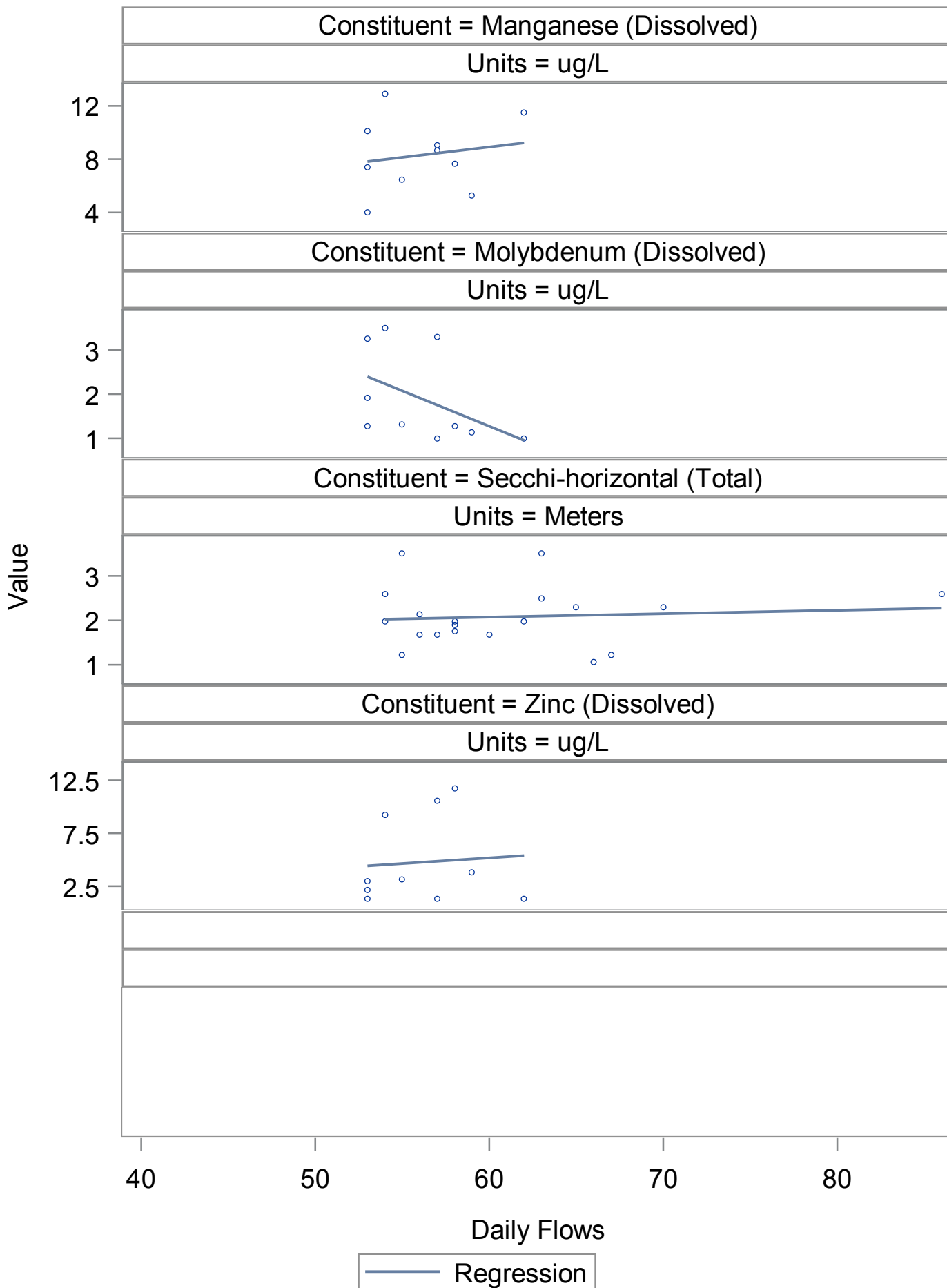


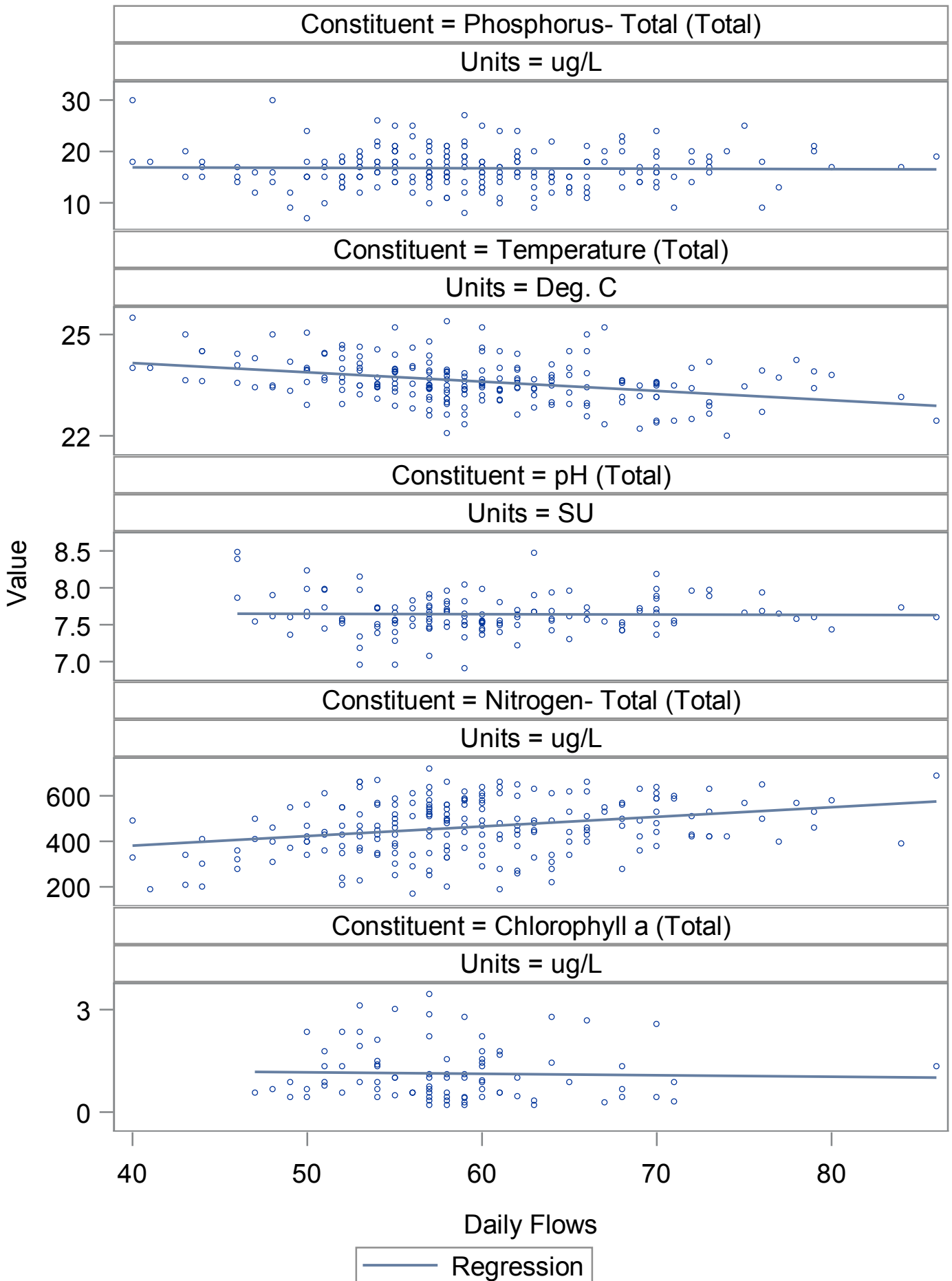


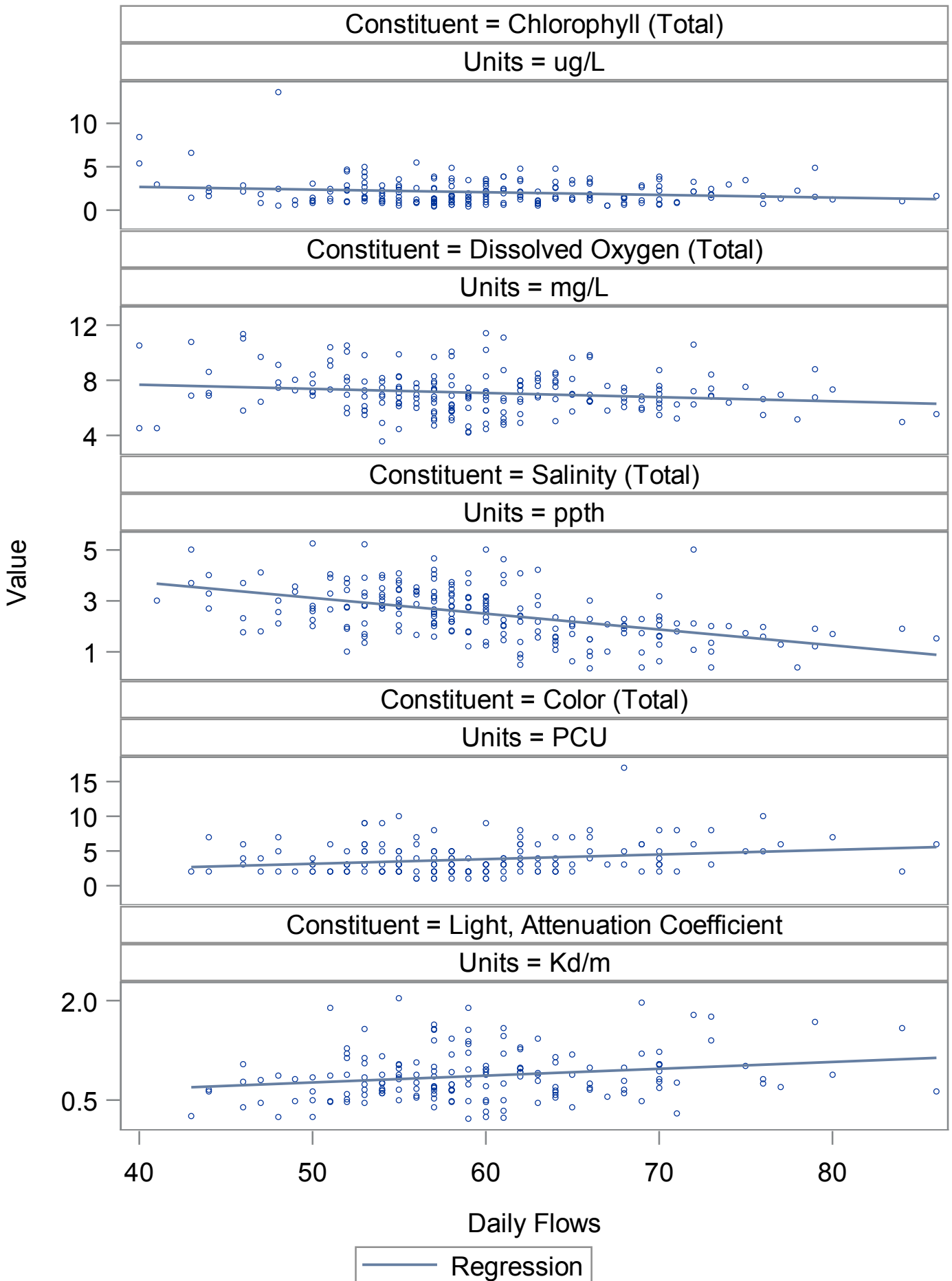


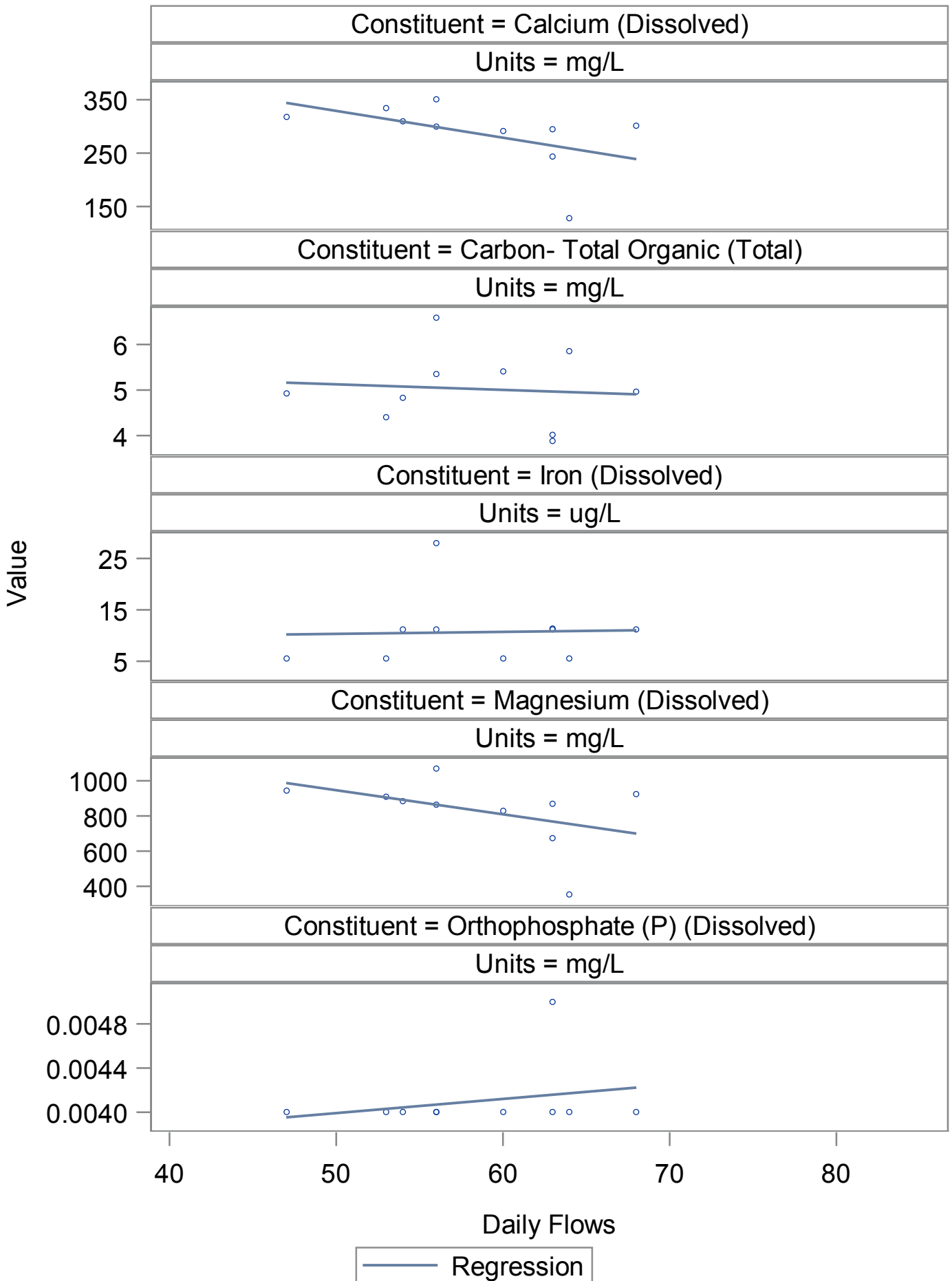


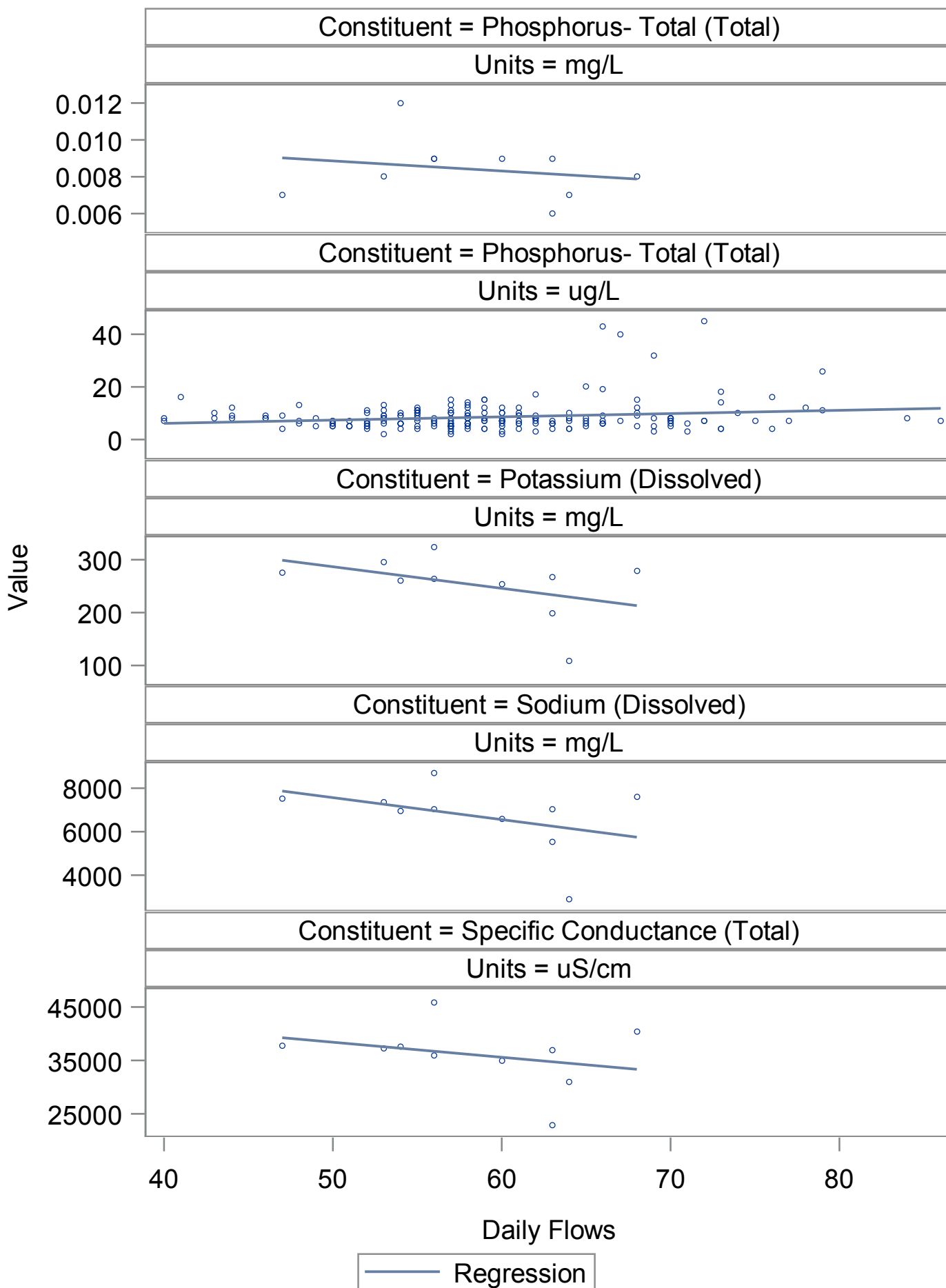


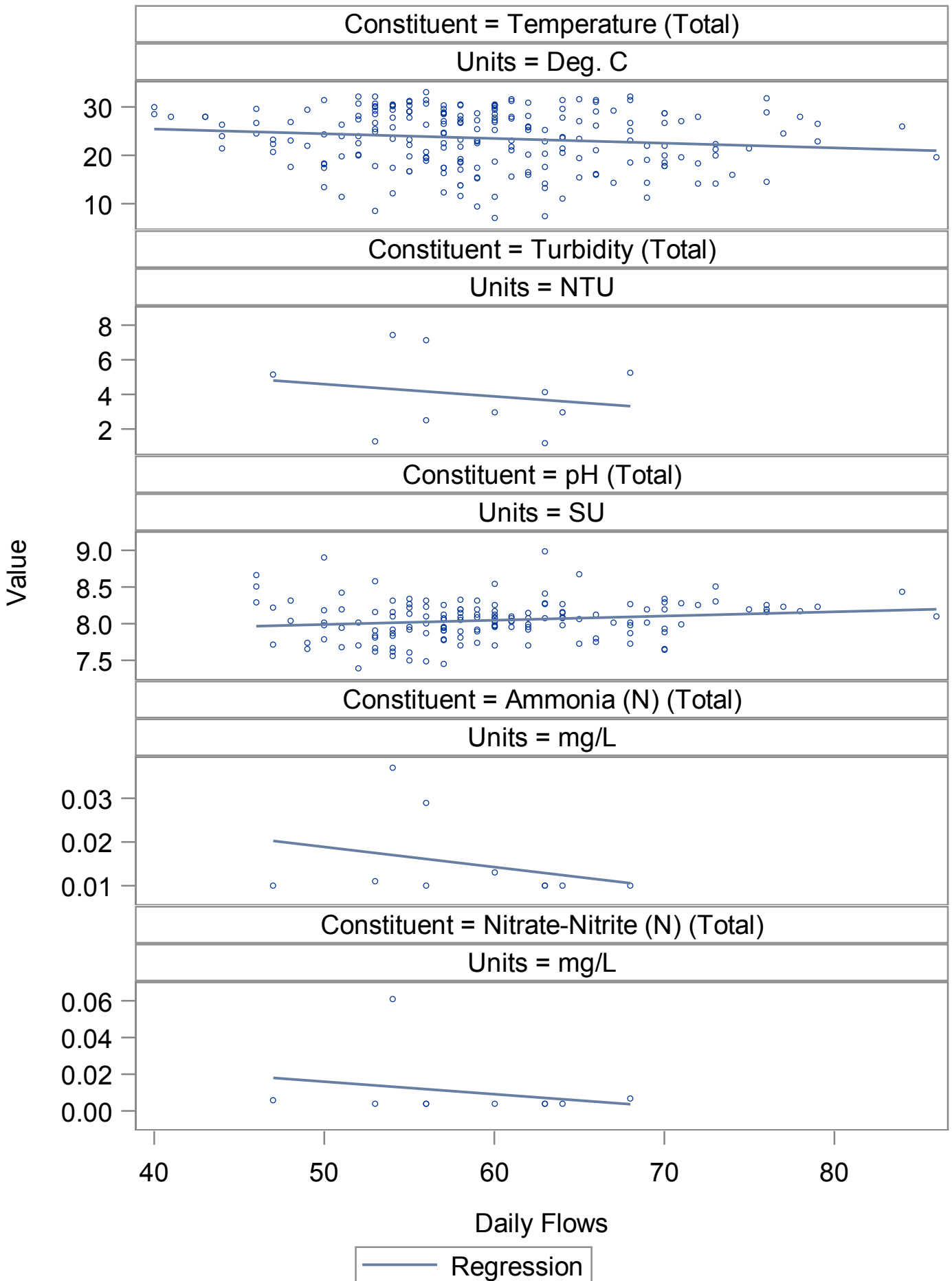


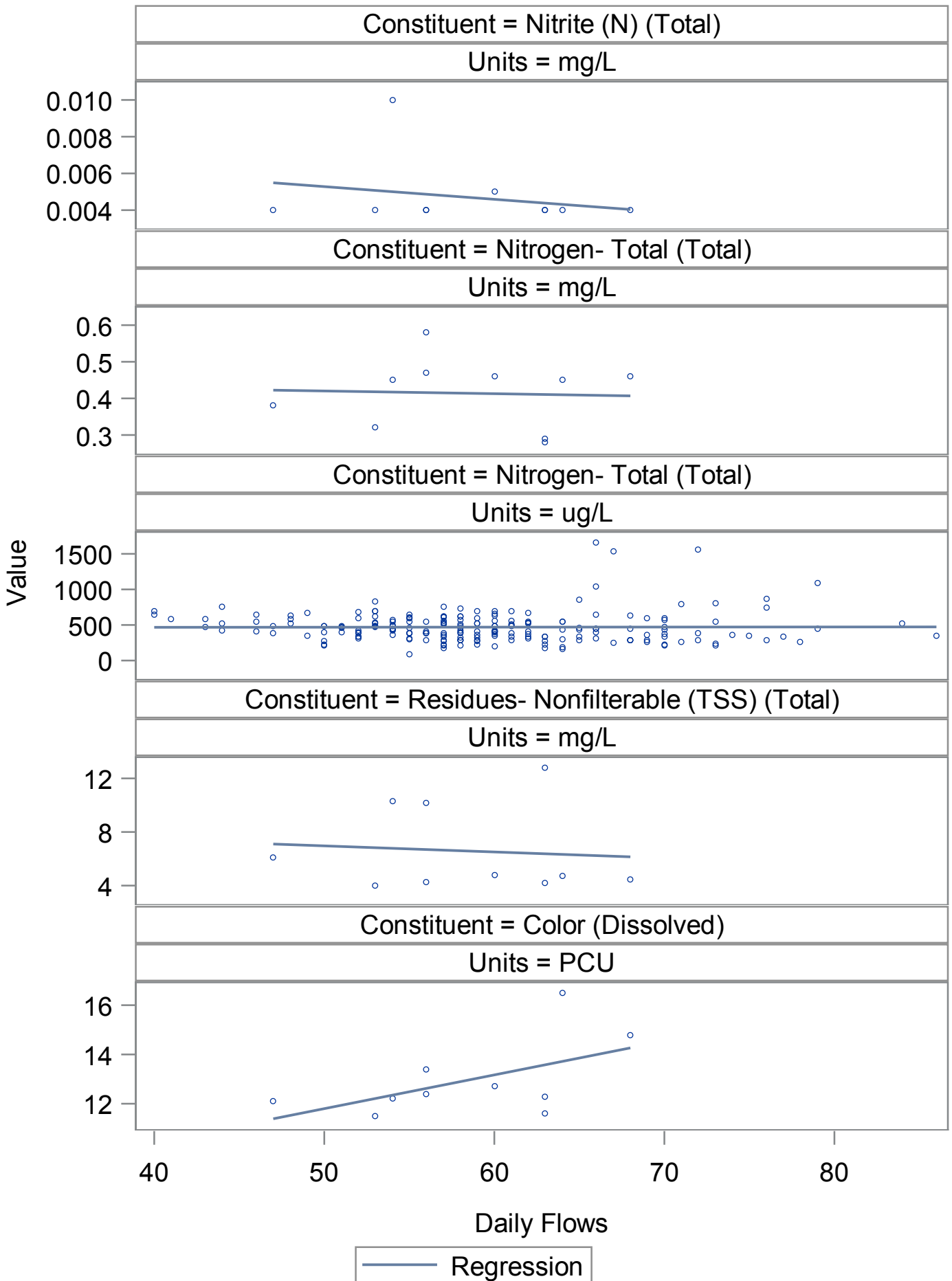


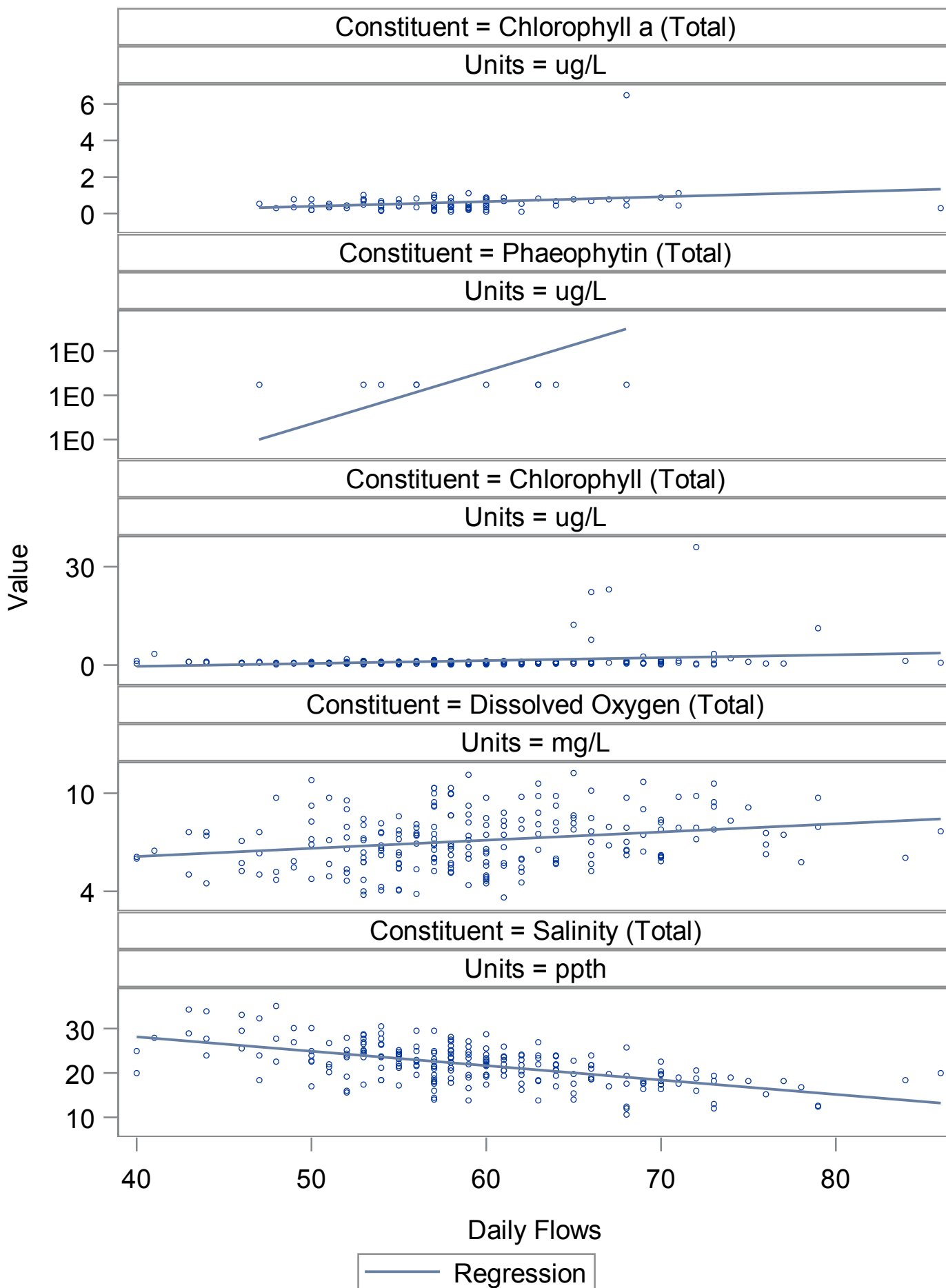


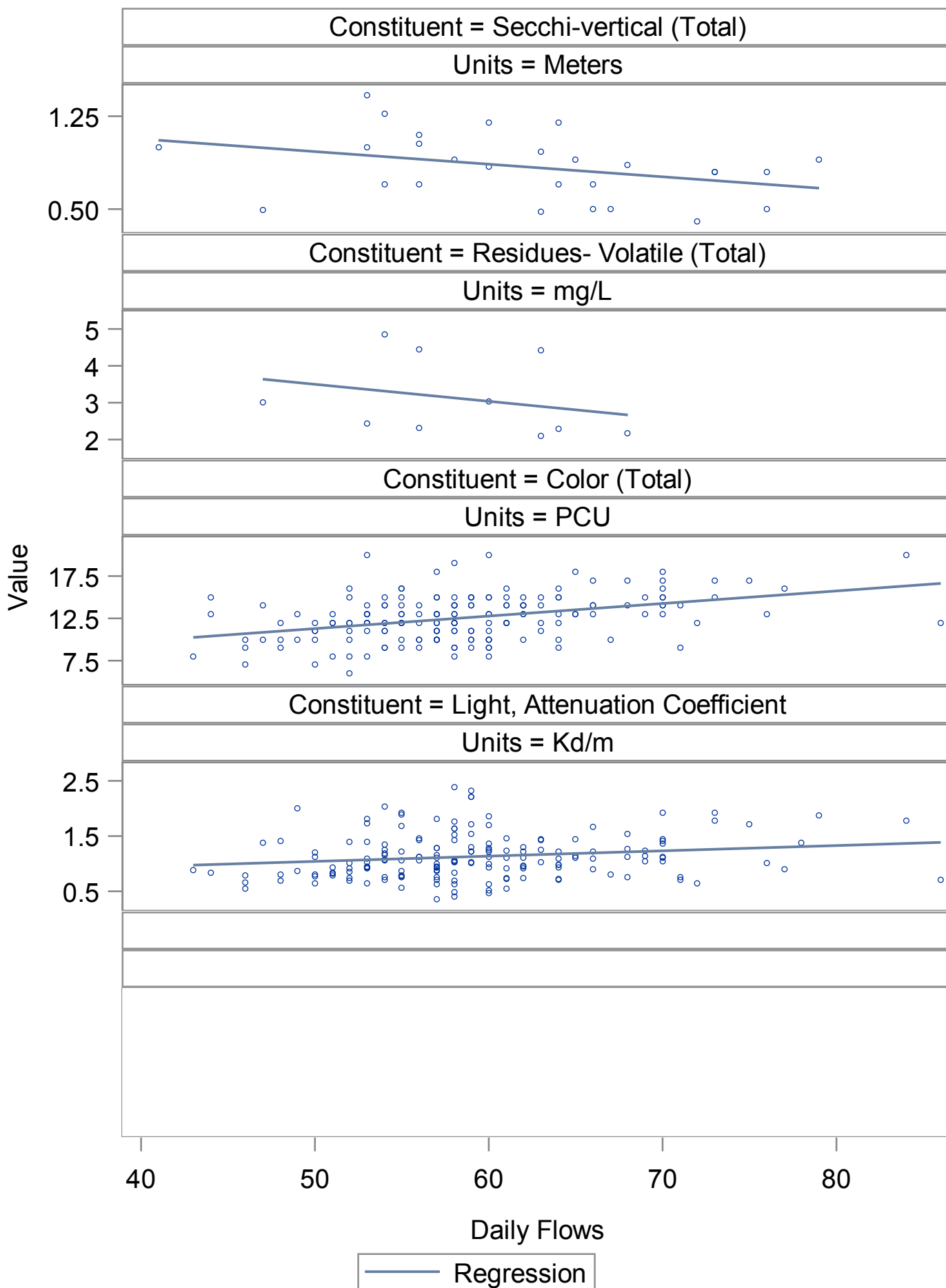


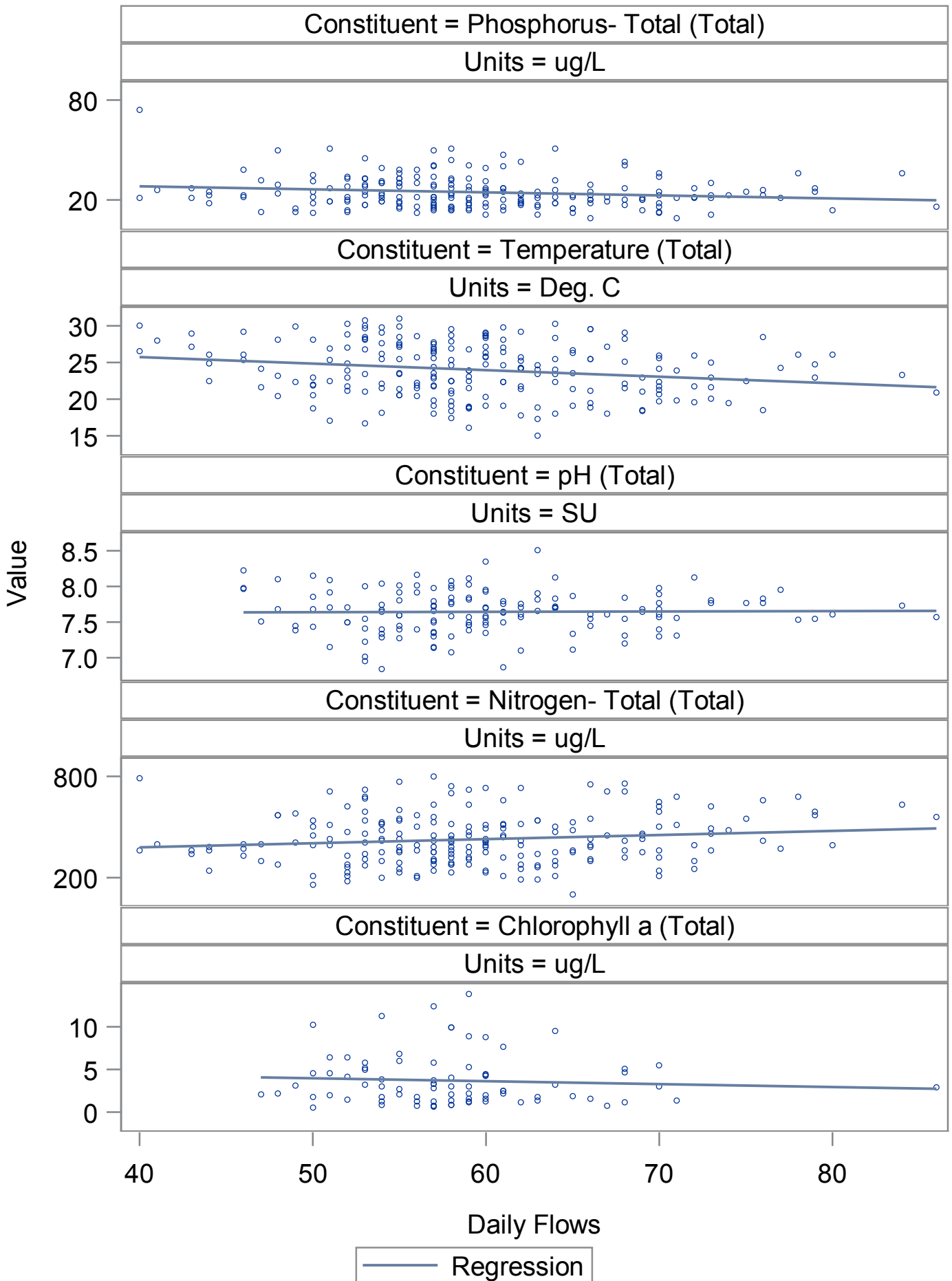


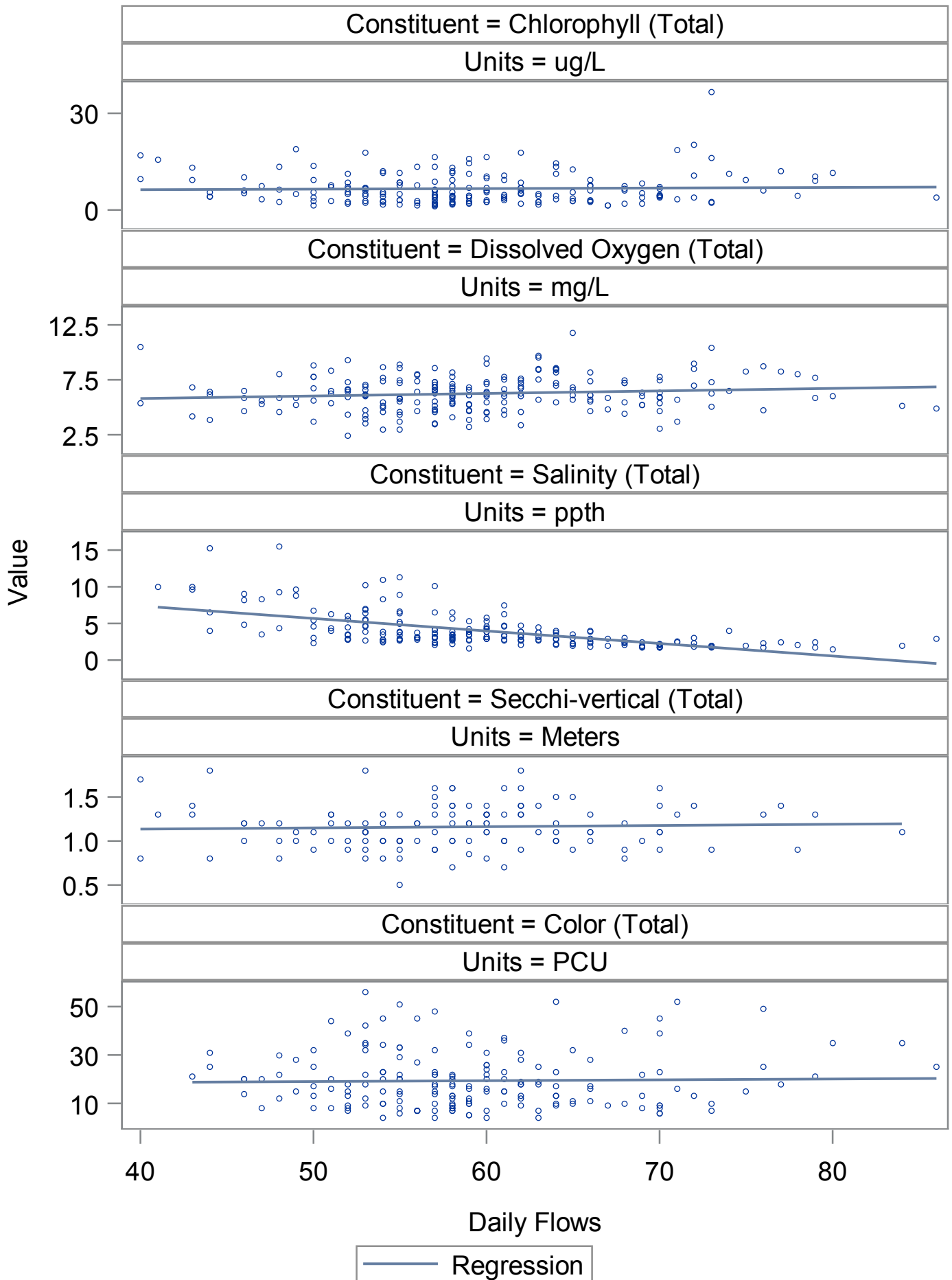










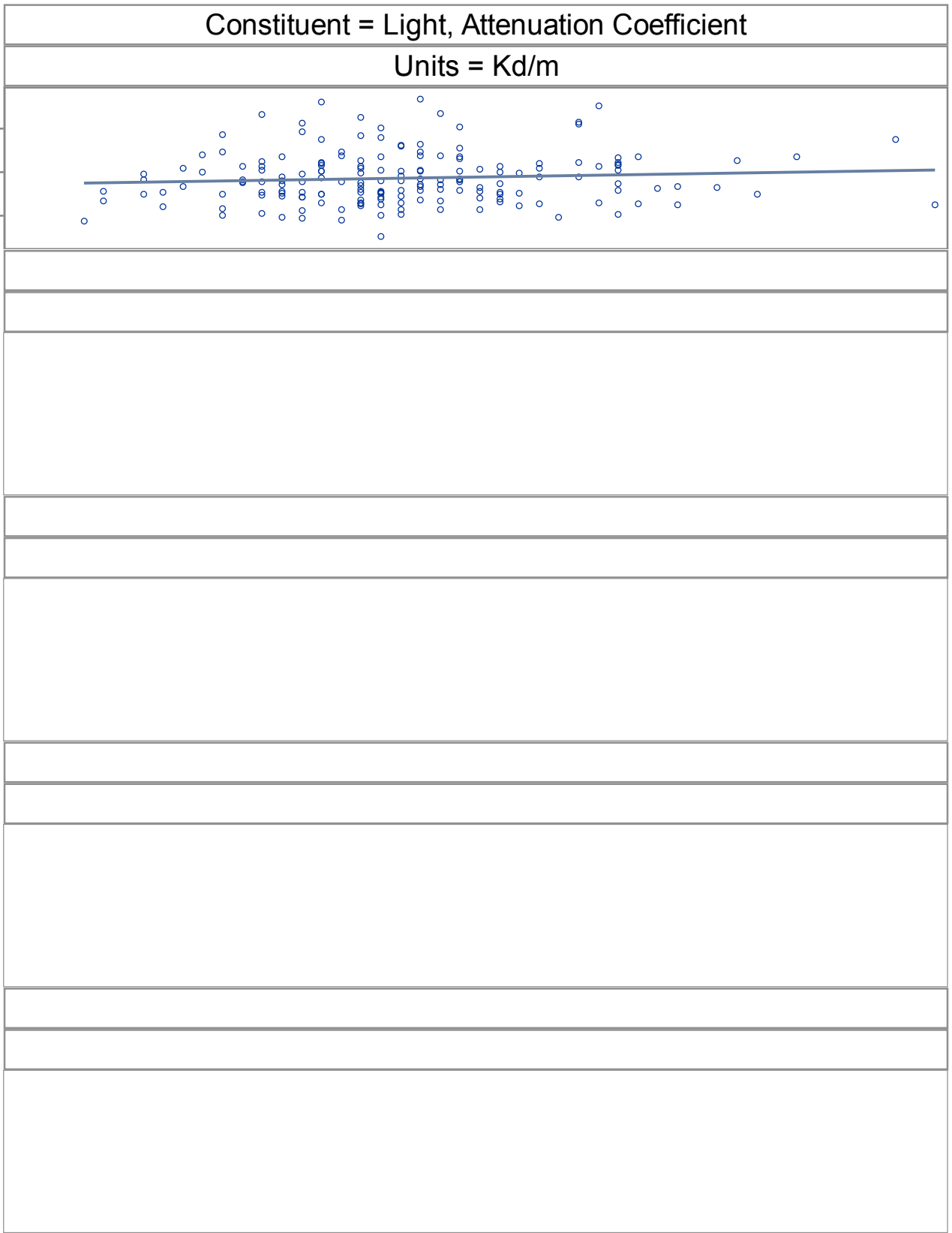


Constituent = Light, Attenuation Coefficient

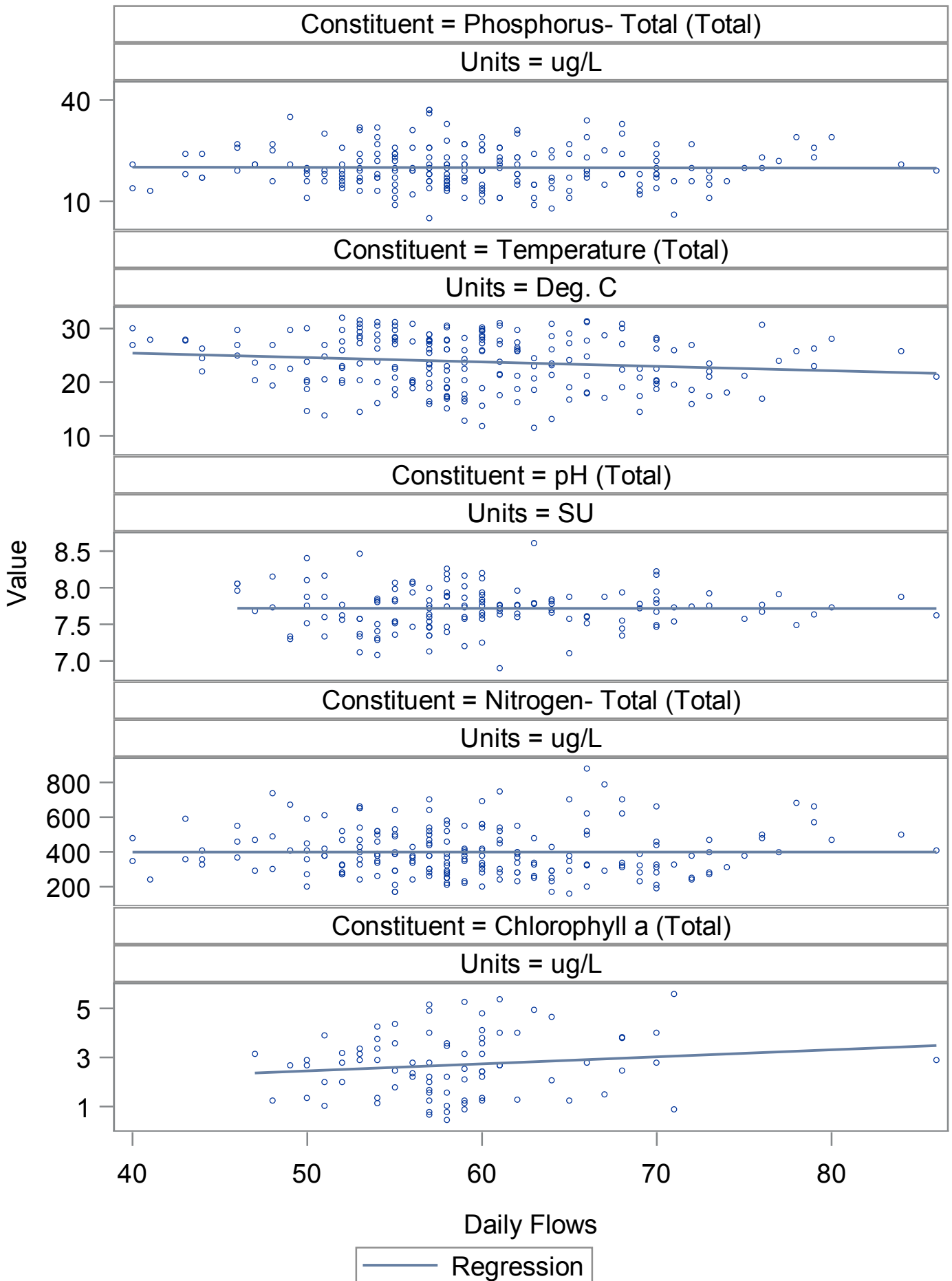
Units = Kd/m

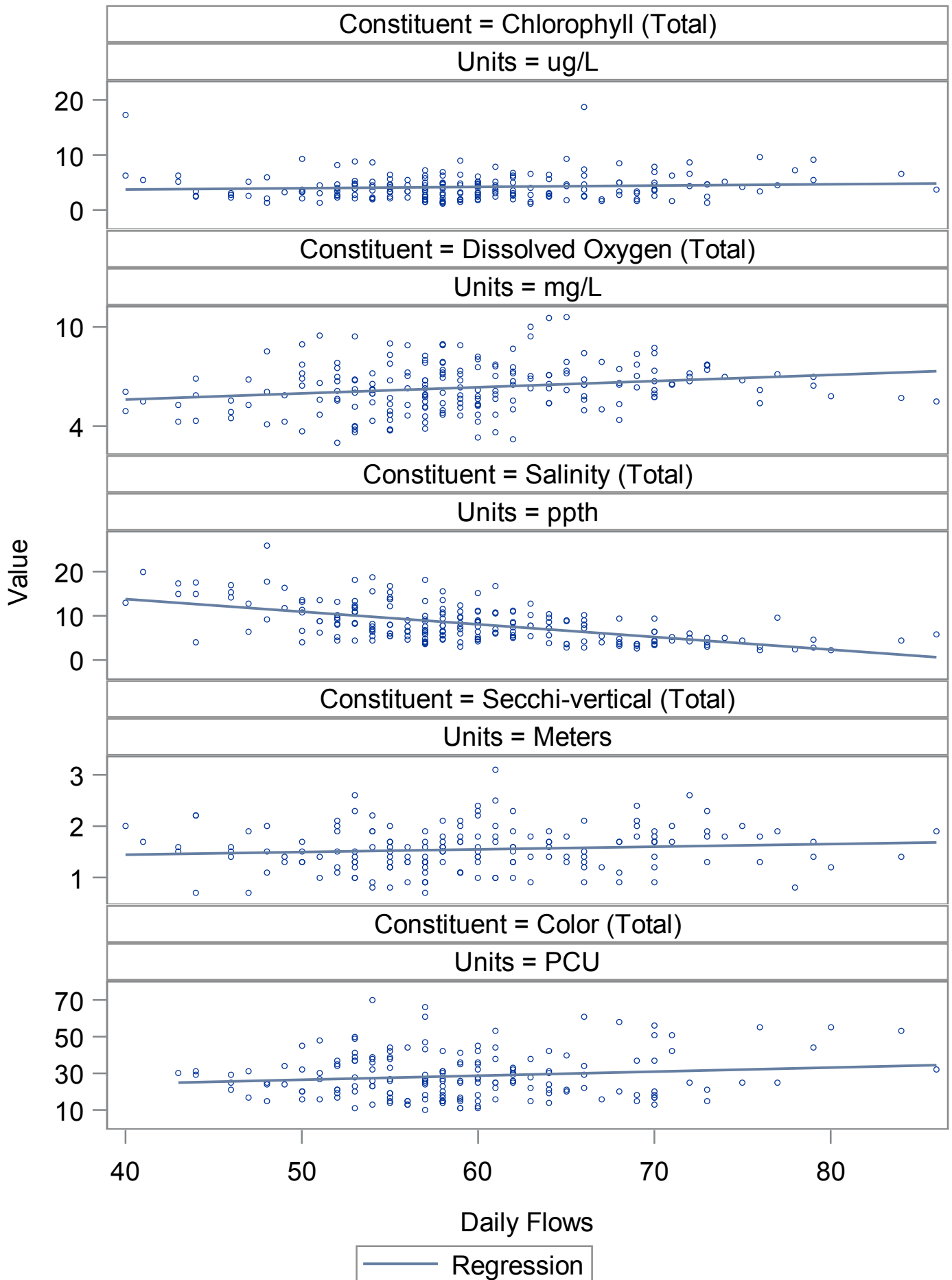
Value

3
2
1



— Regression





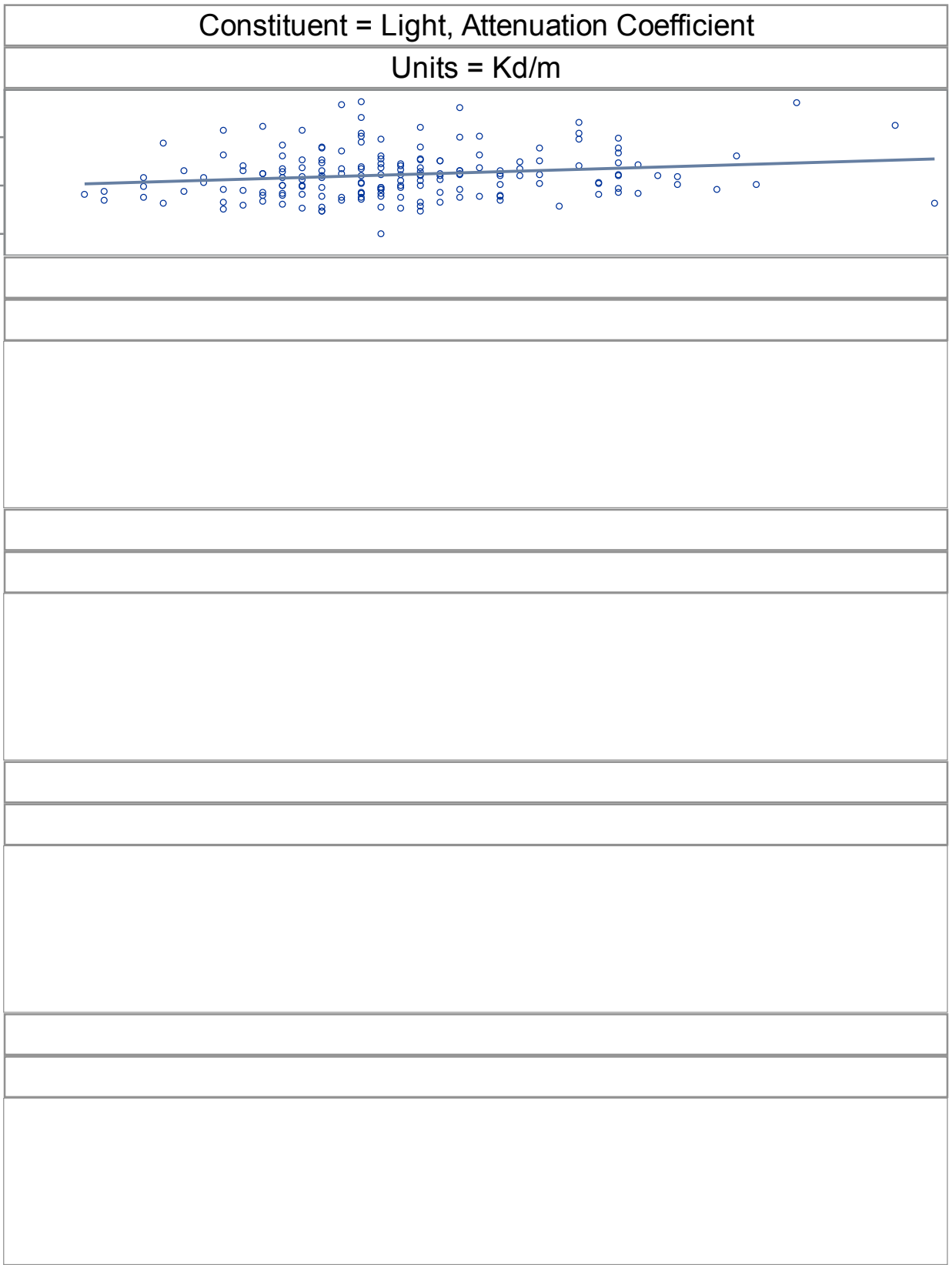
Source = P-529 and Station =CHASSAHOWITZKA CITRUS 3

Constituent = Light, Attenuation Coefficient

Units = Kd/m

Value

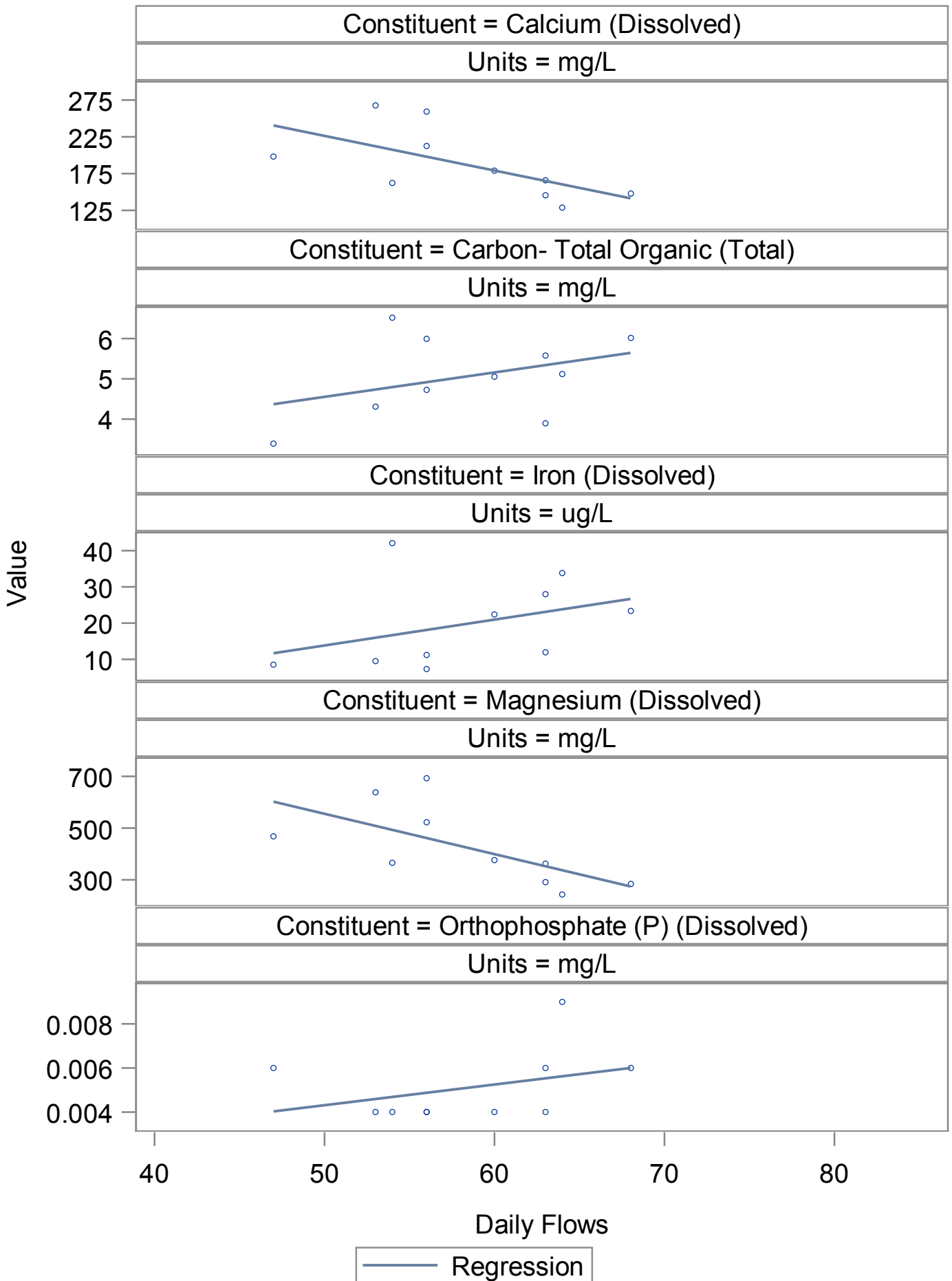
2.5
1.5
0.5

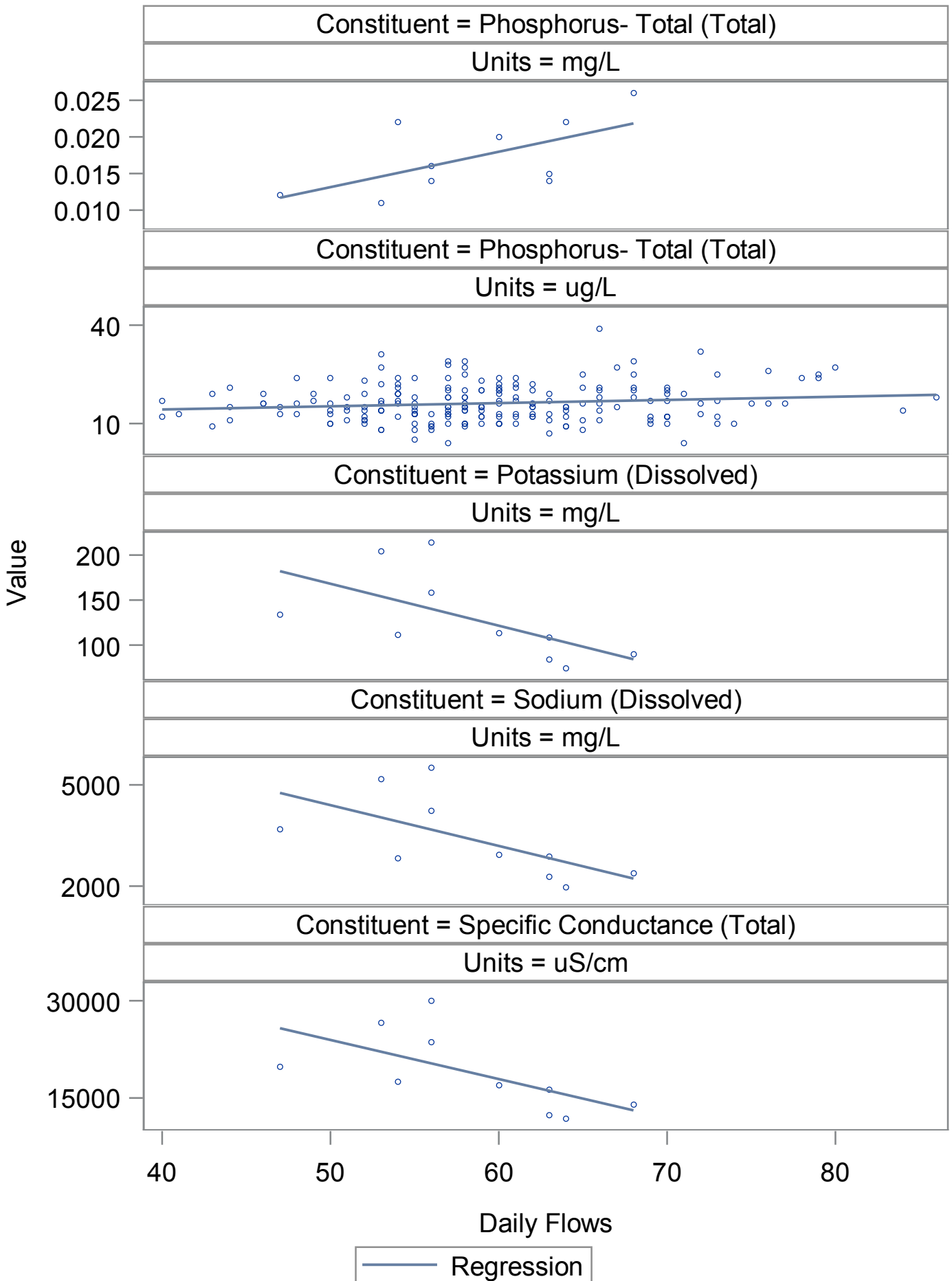


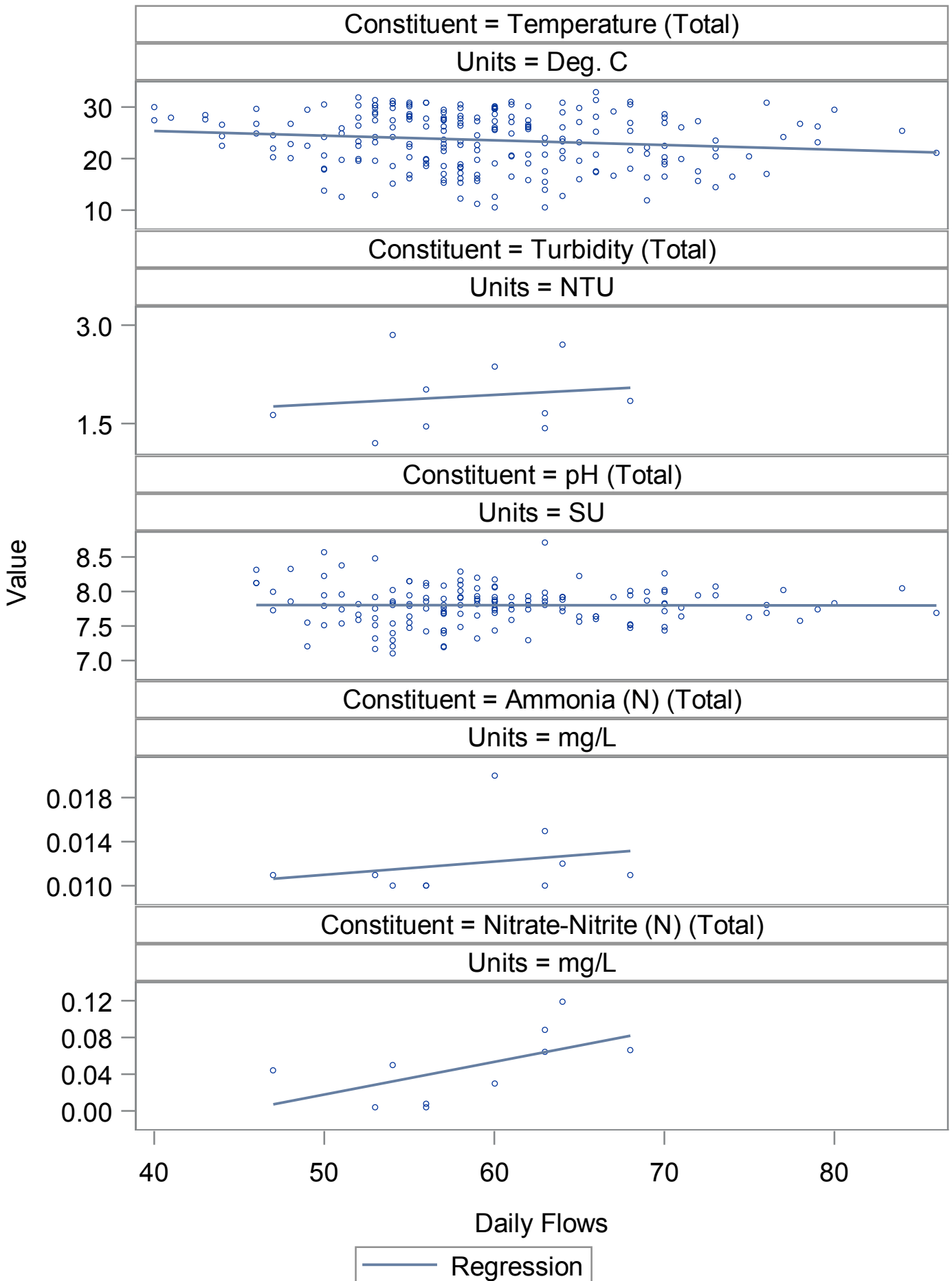
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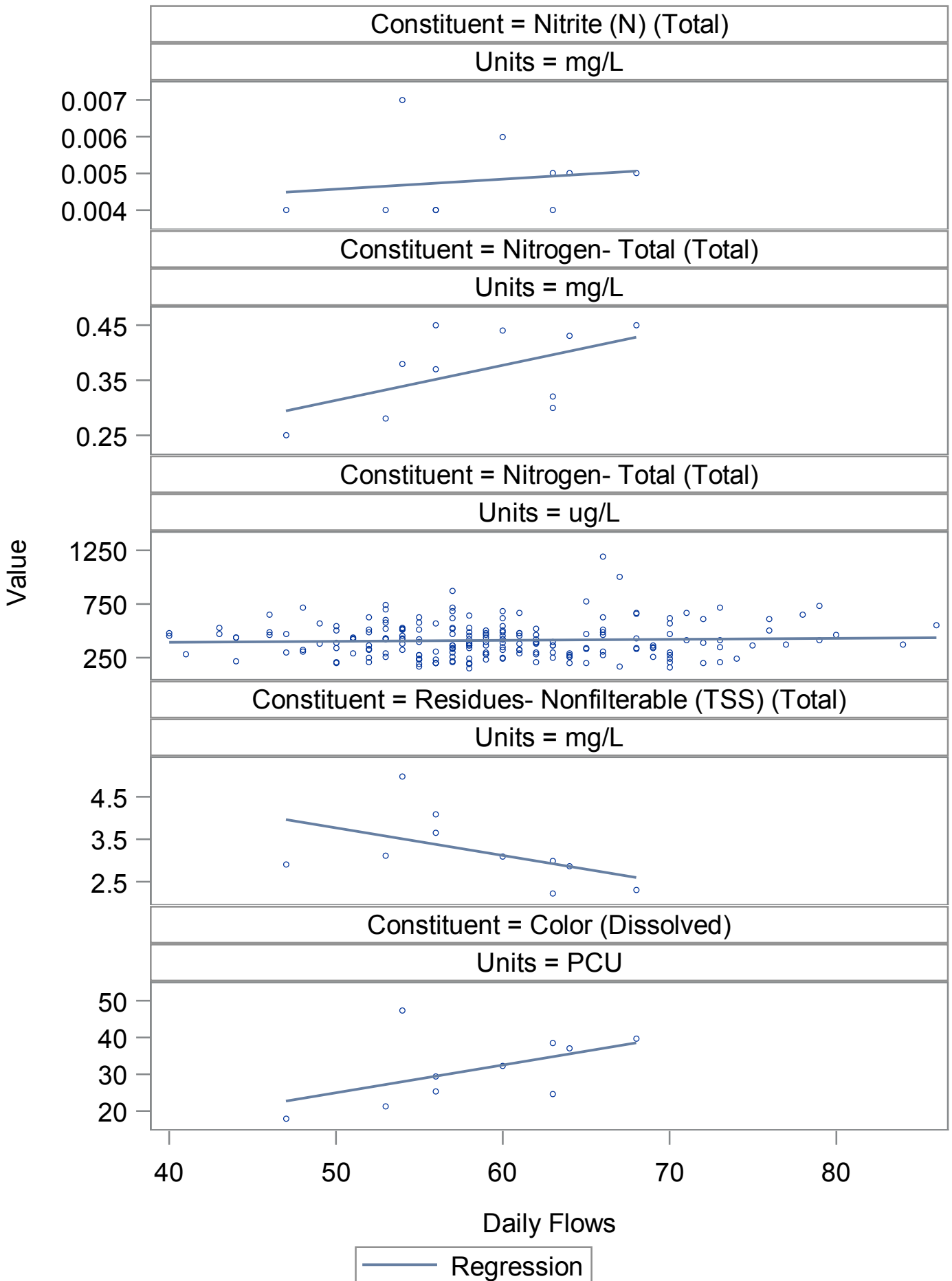
Daily Flows

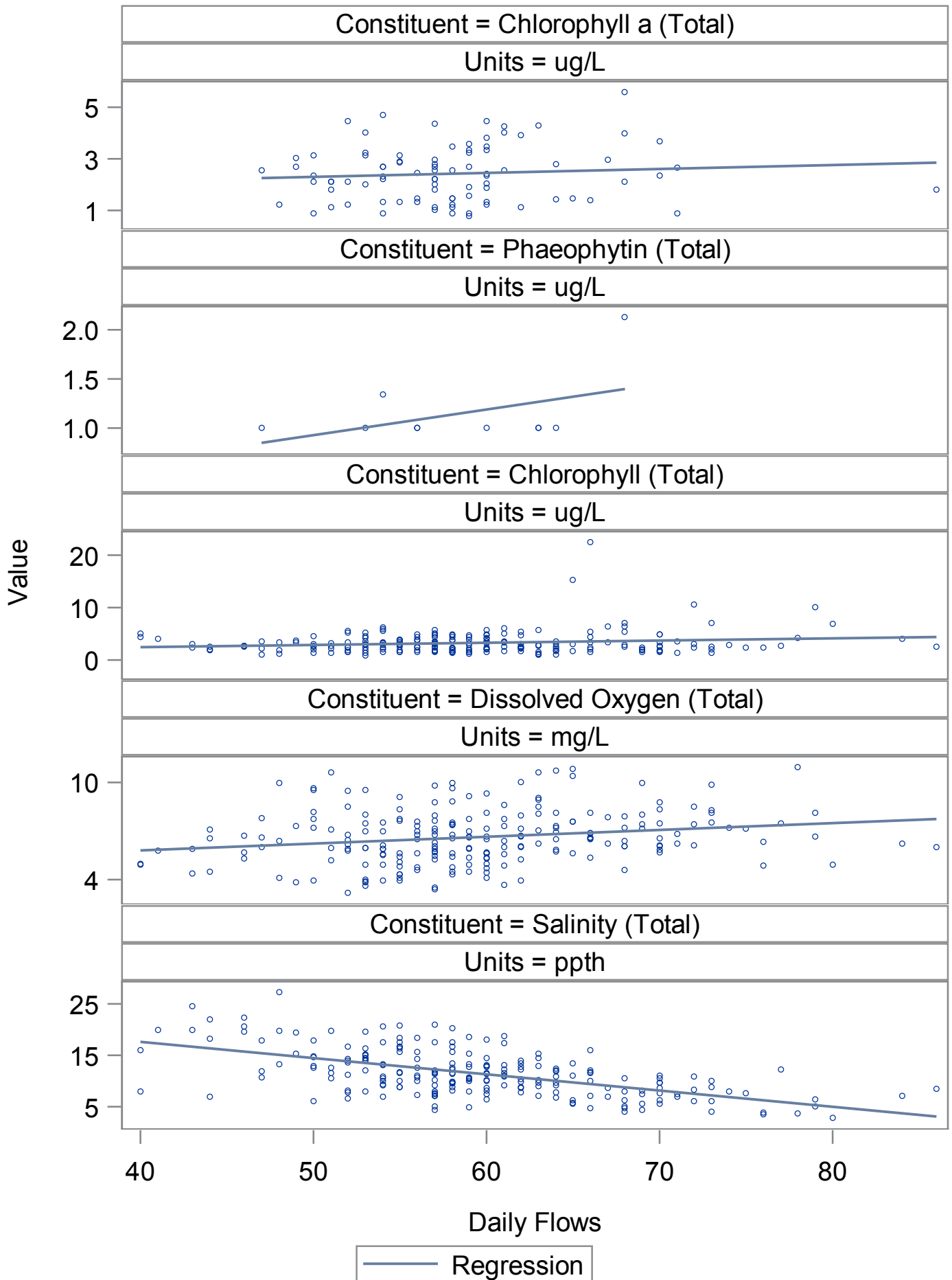
— Regression

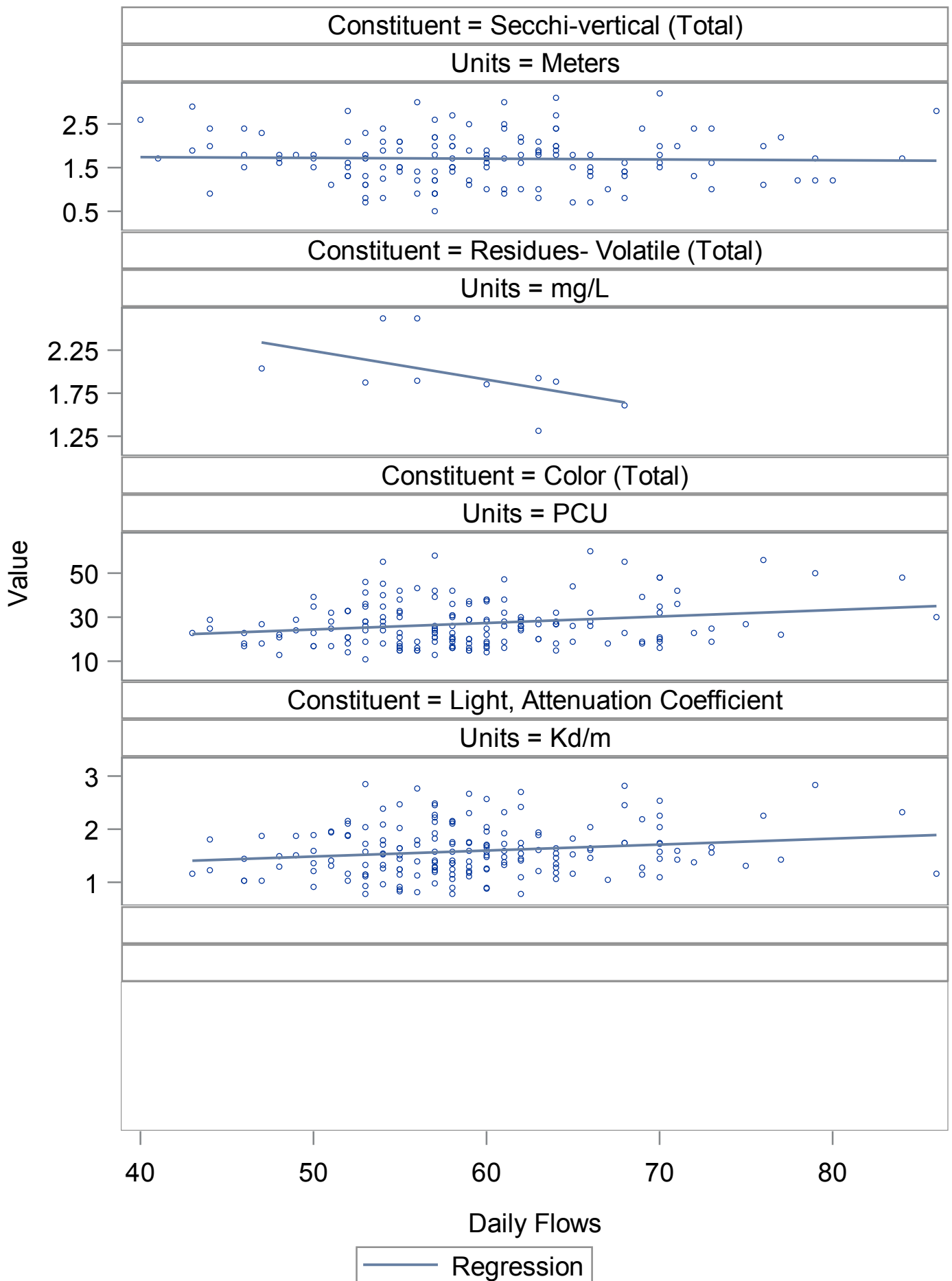


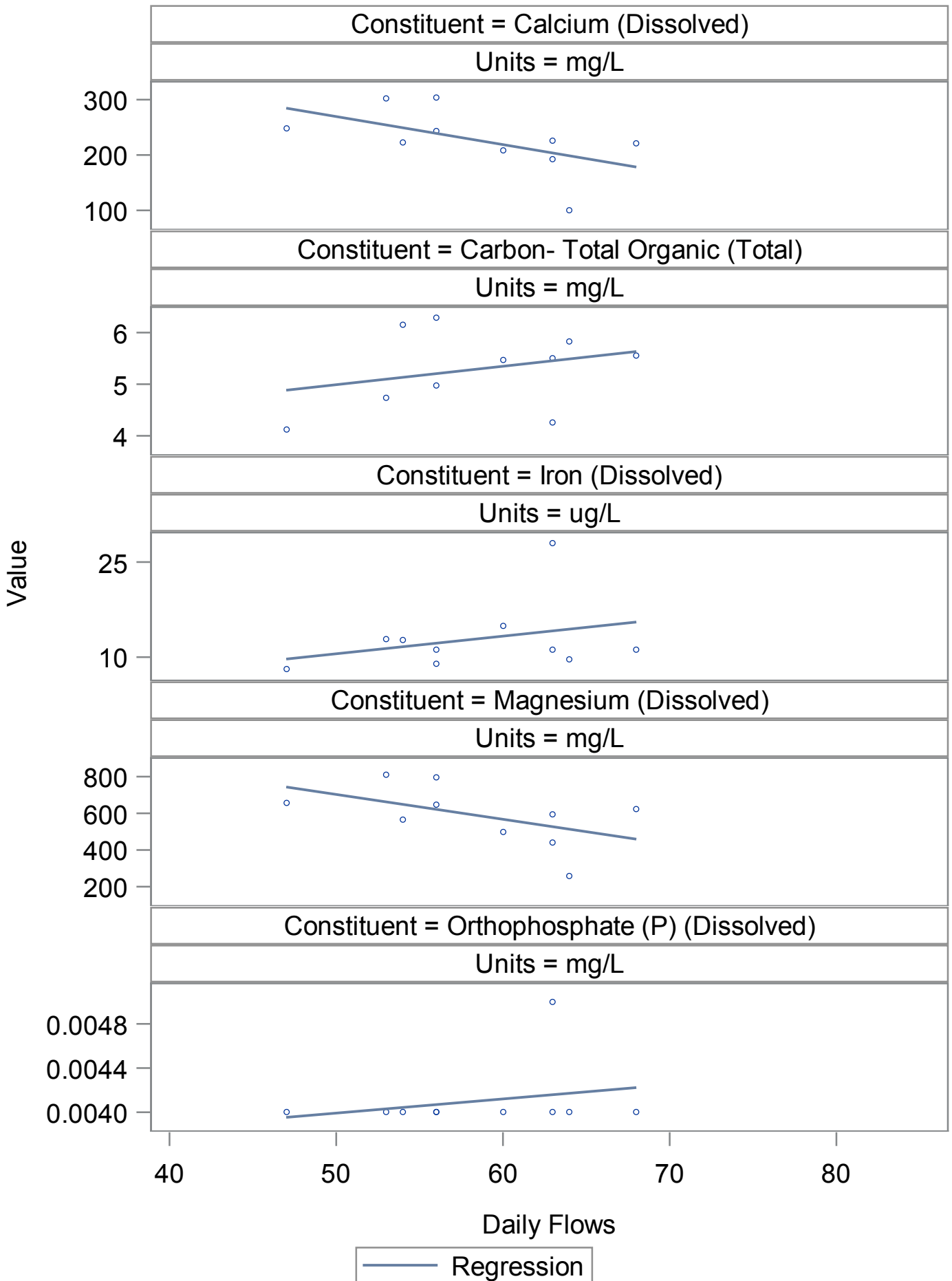


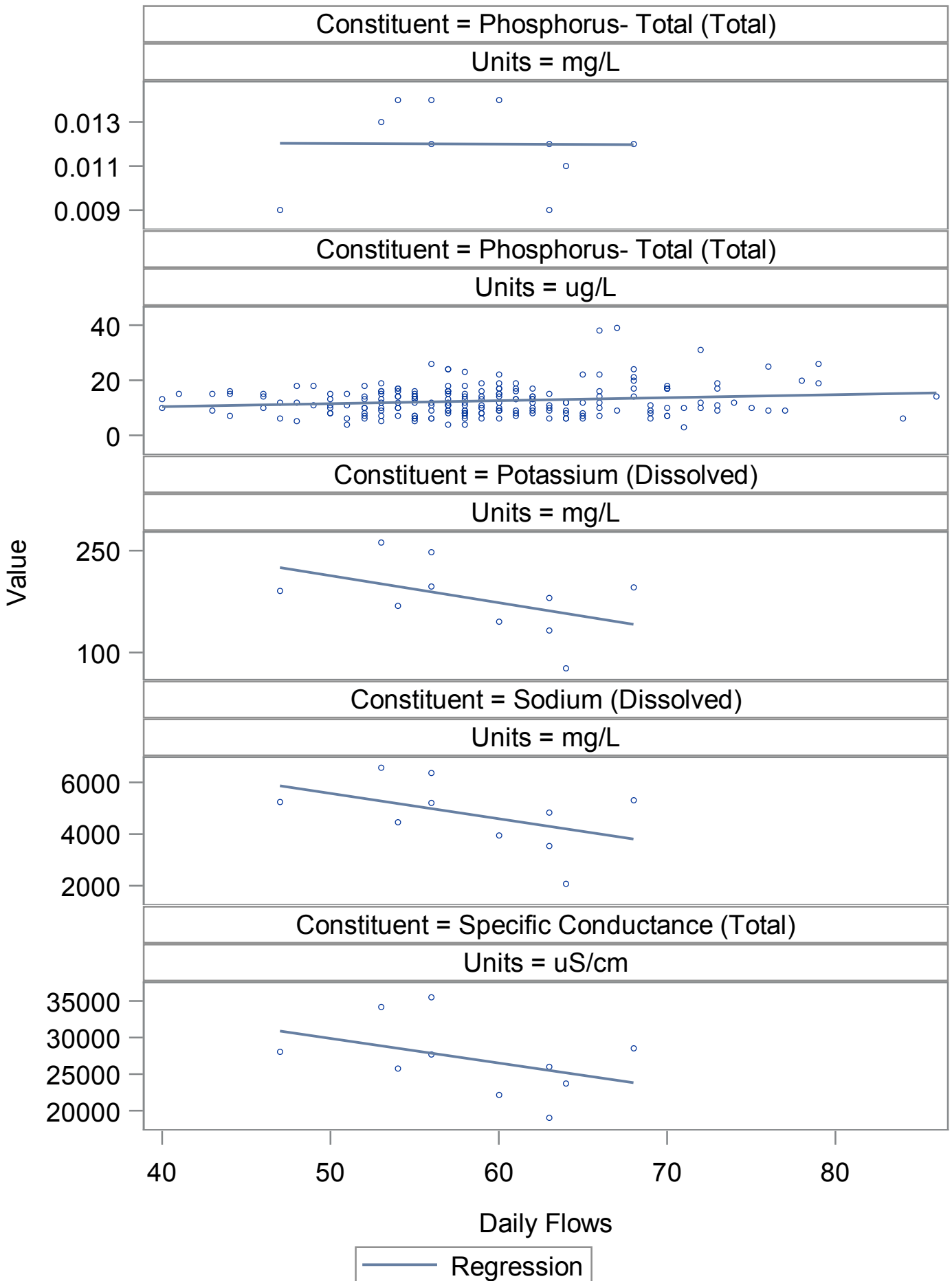


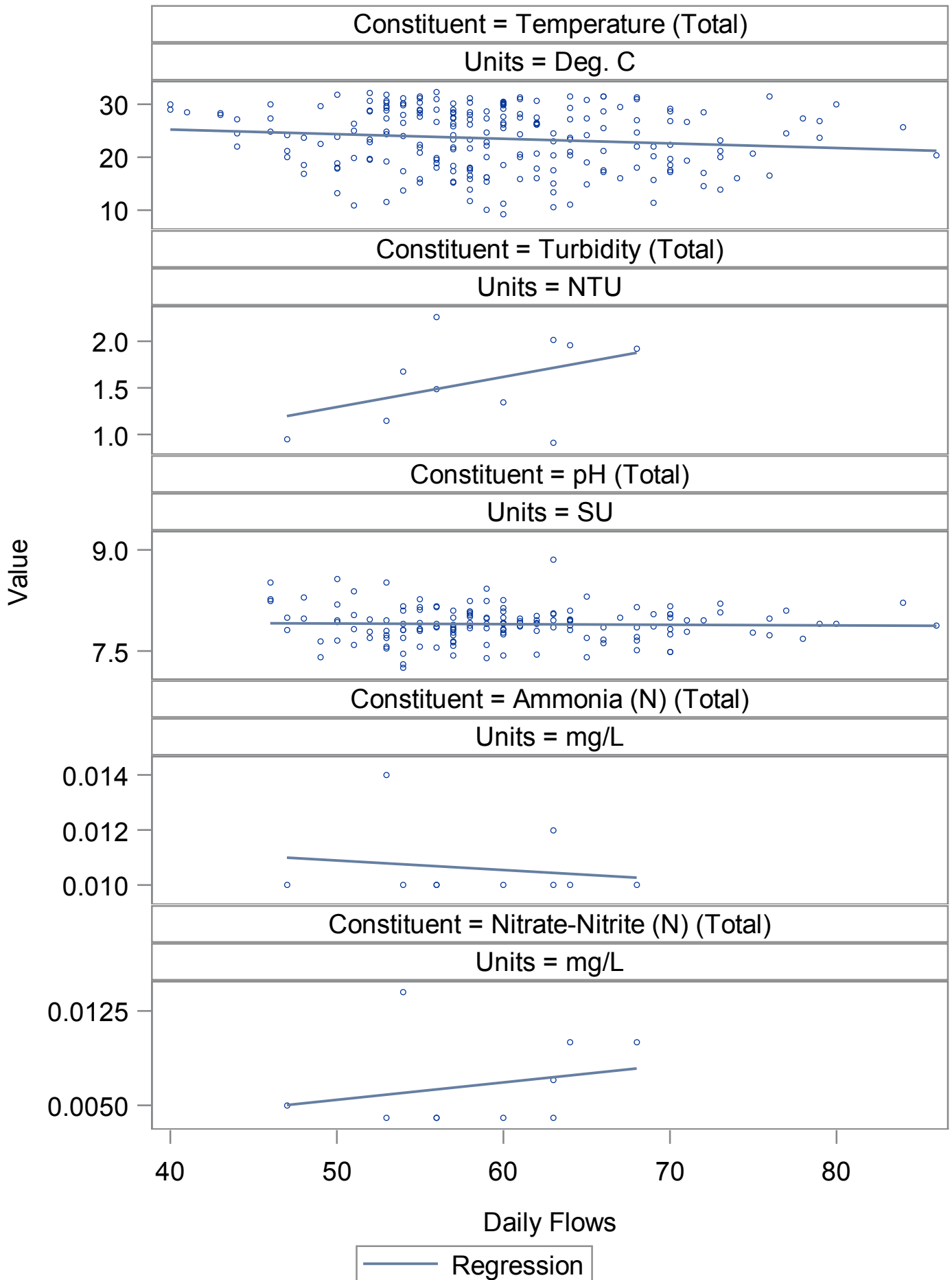


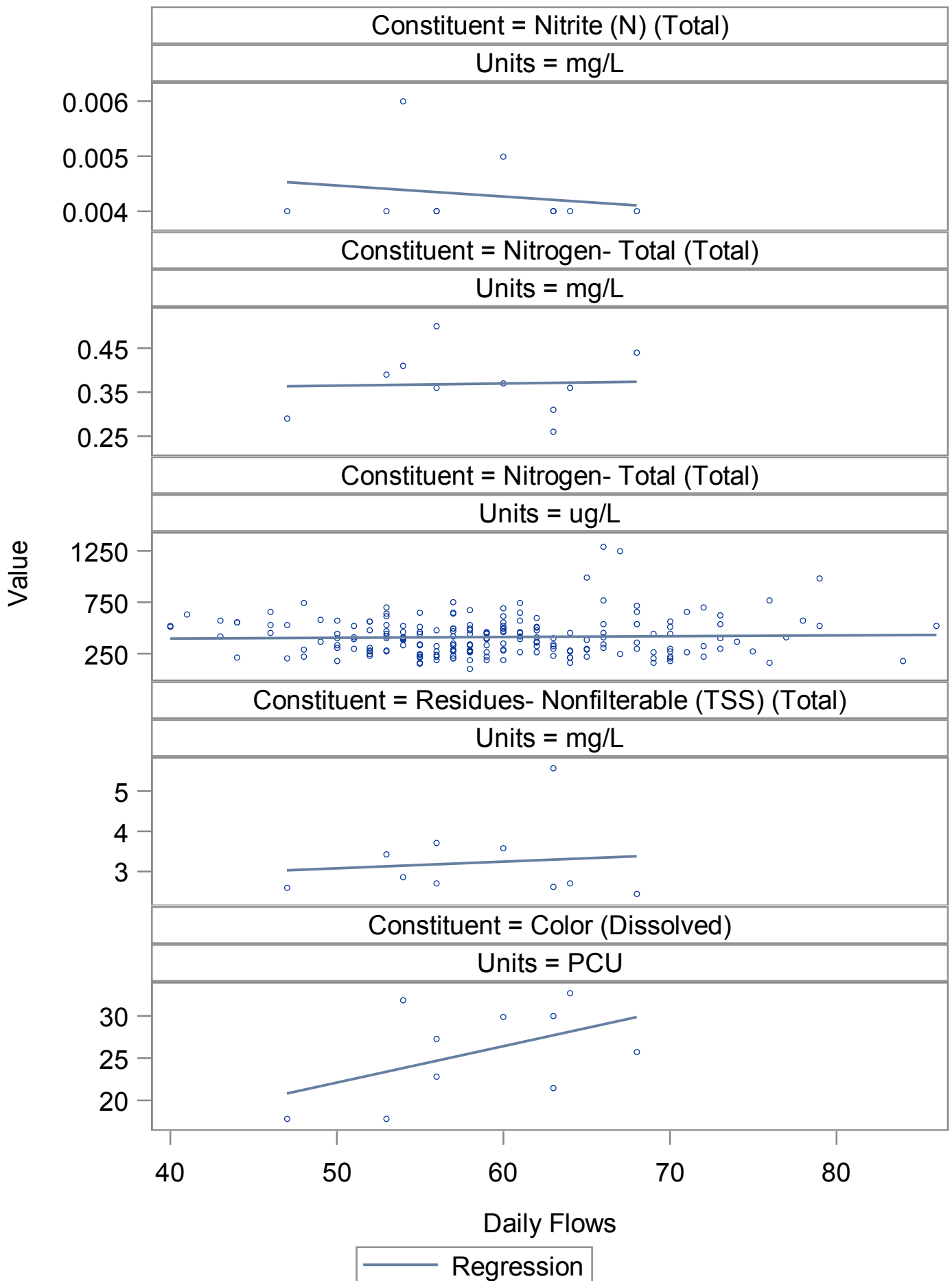


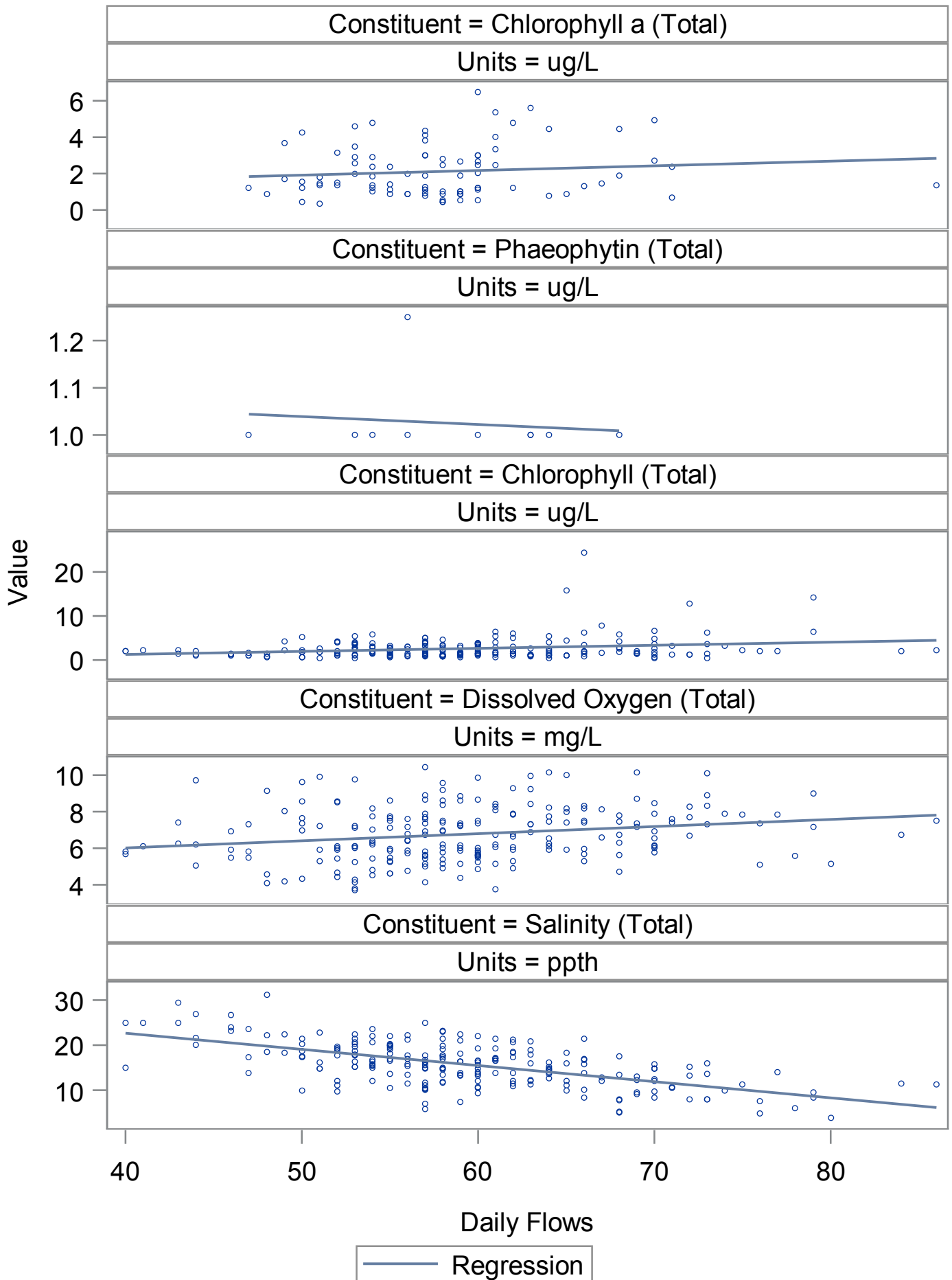


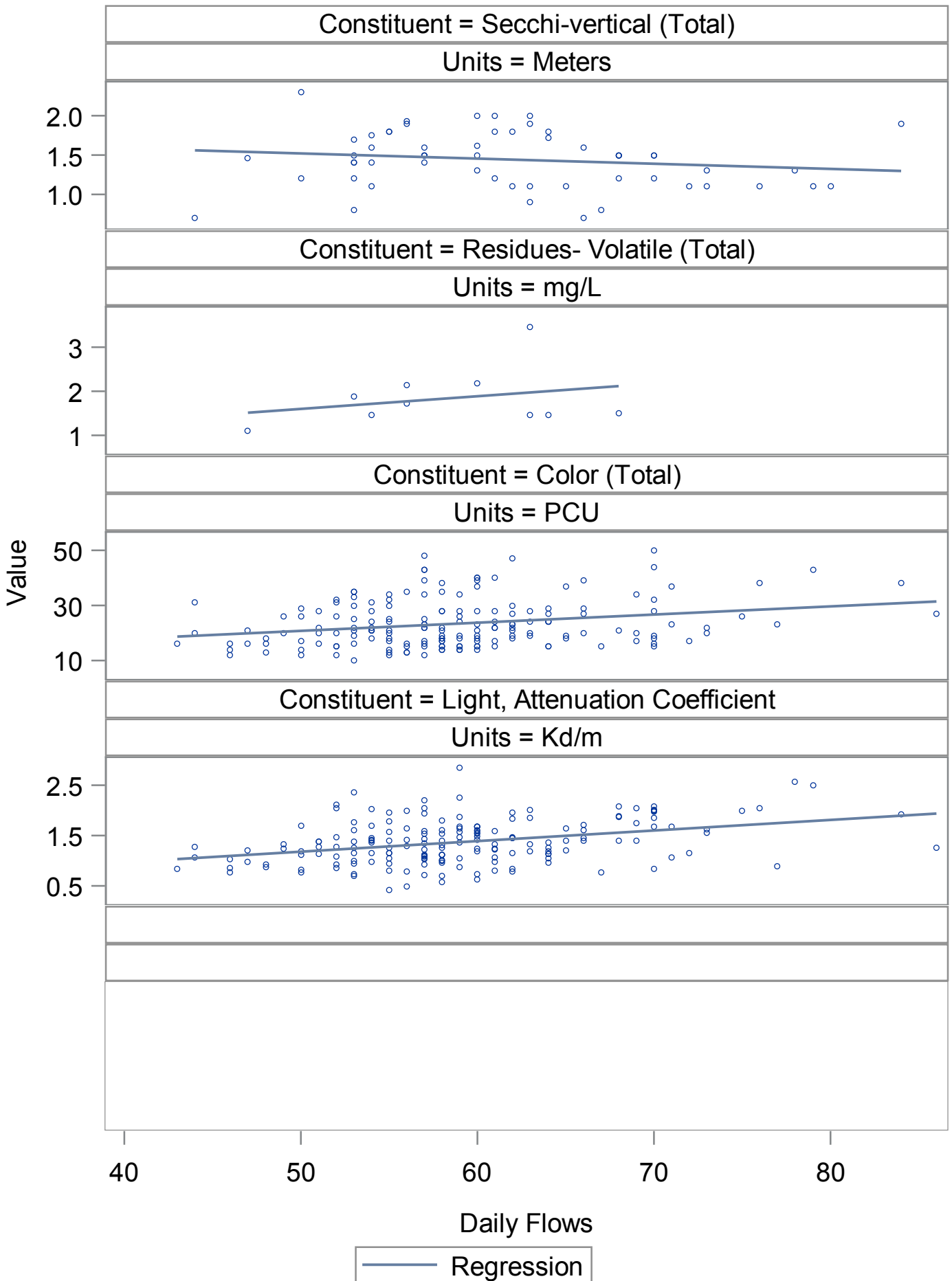


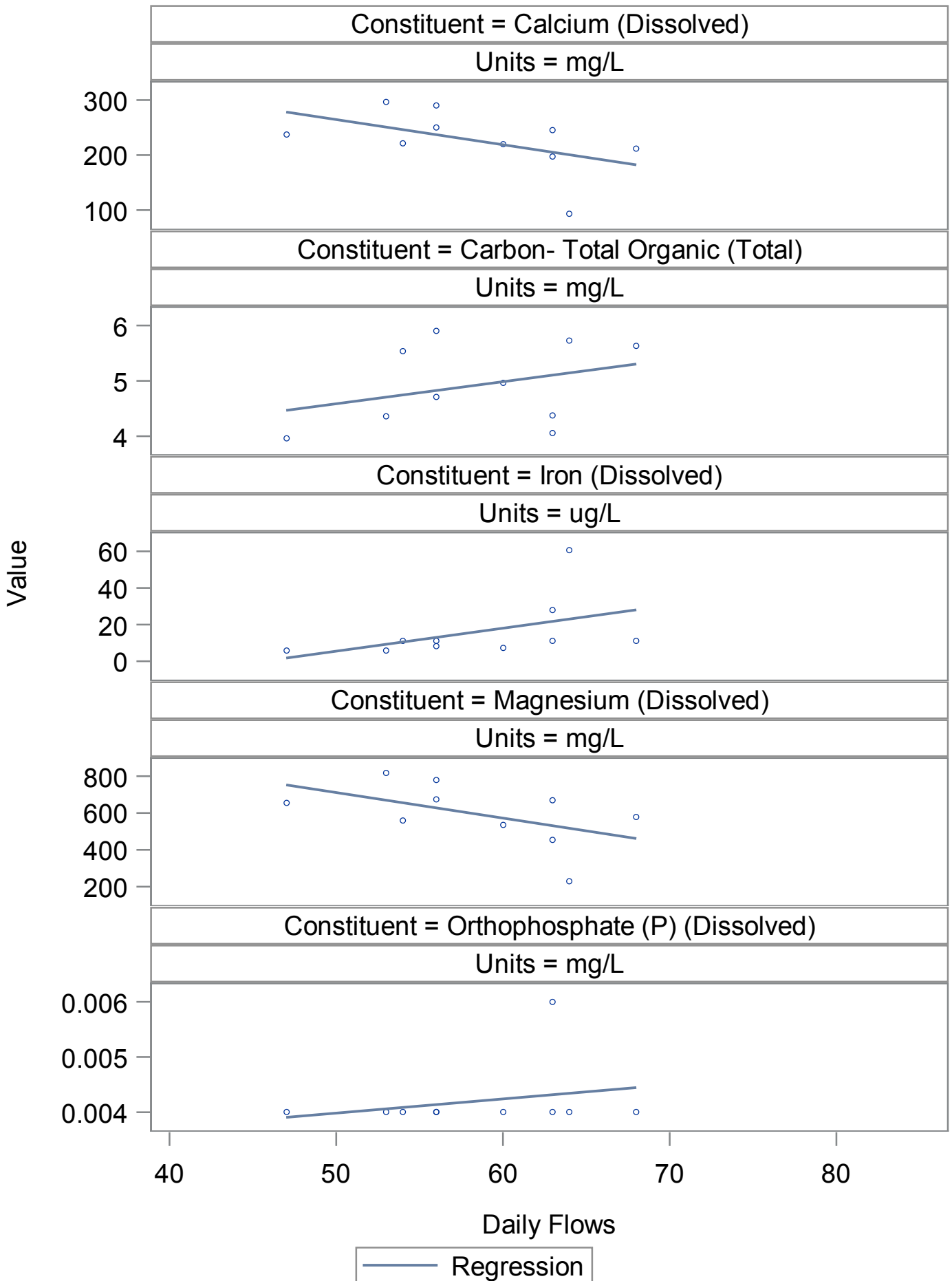


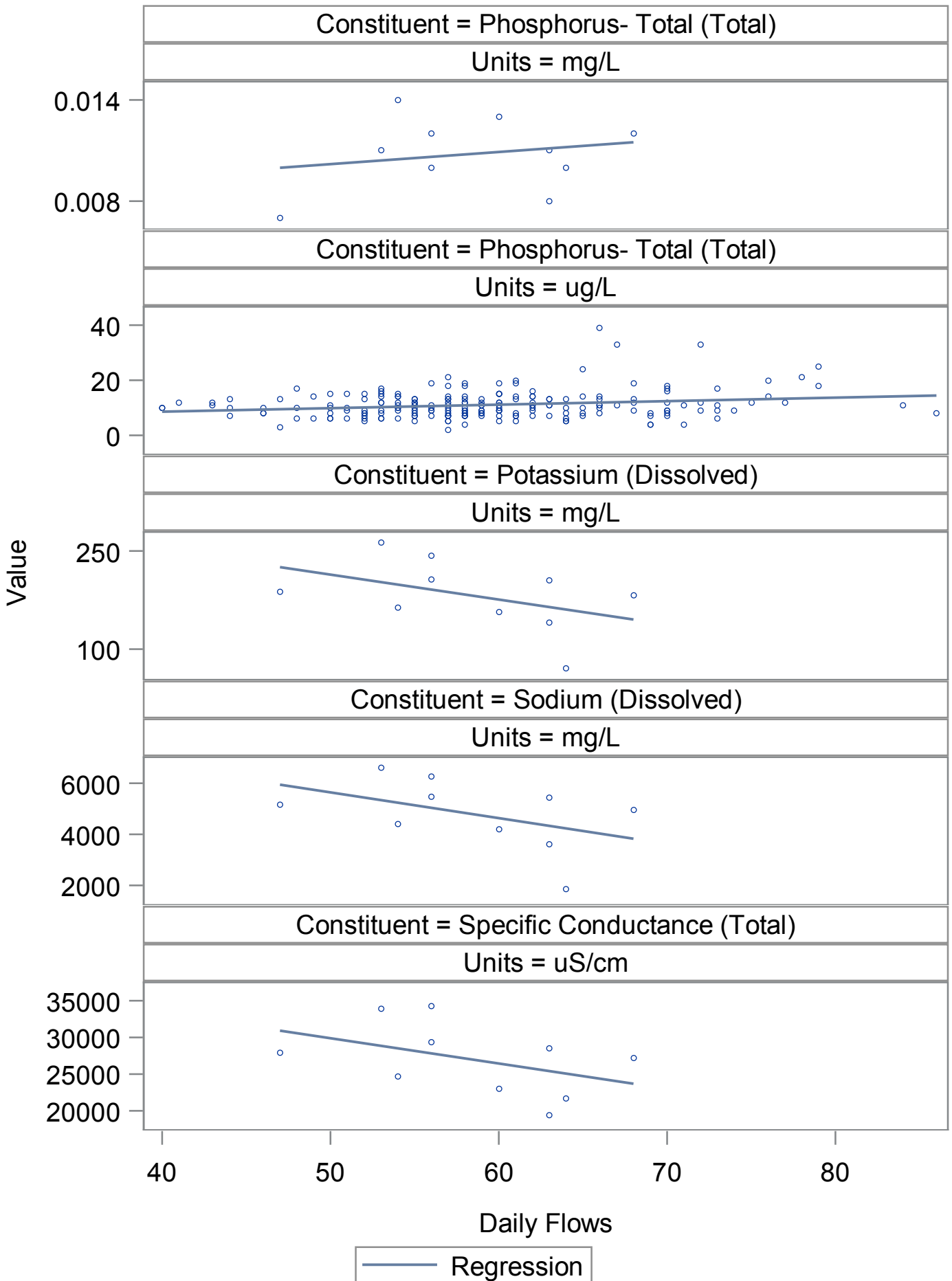


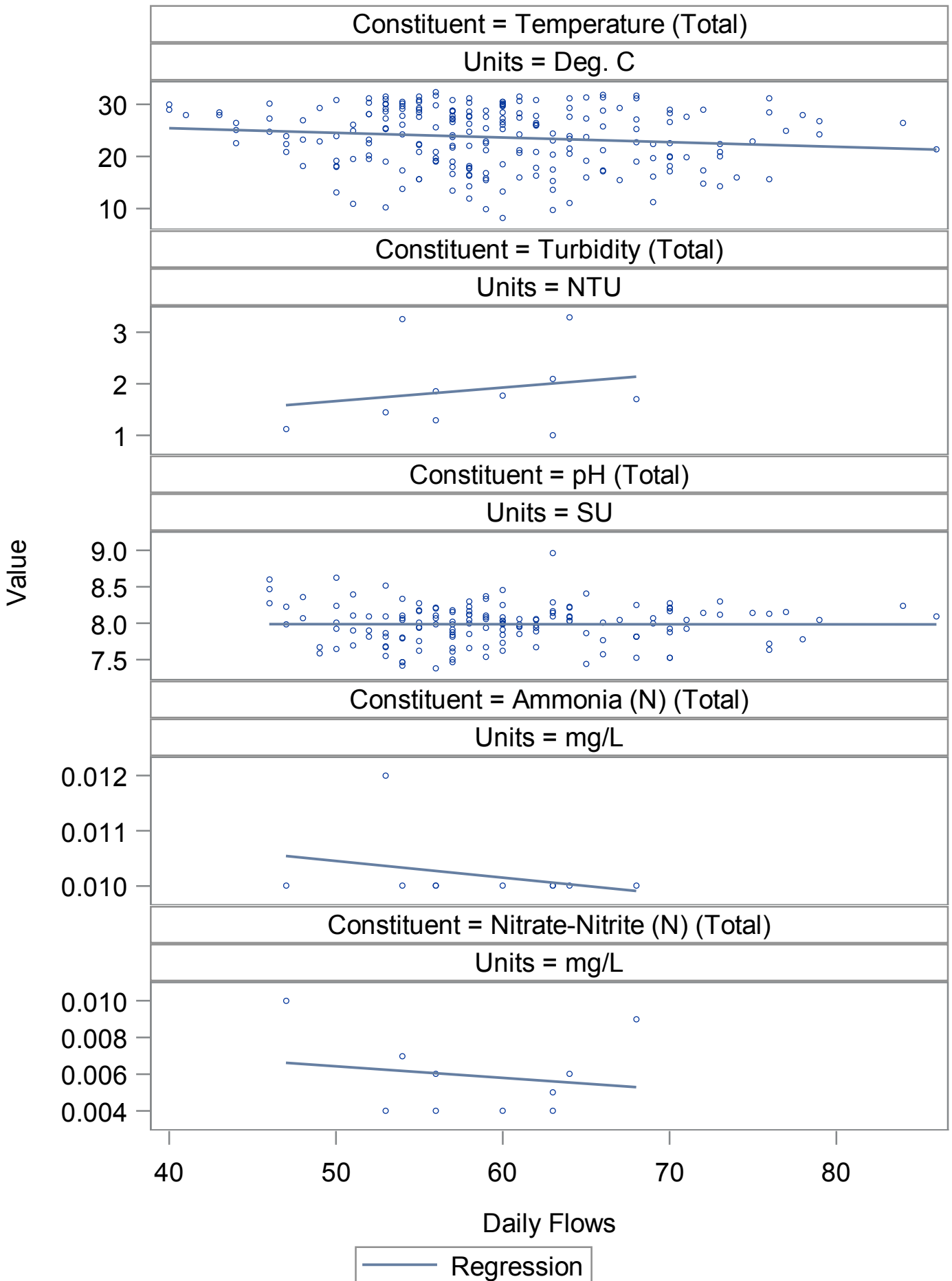


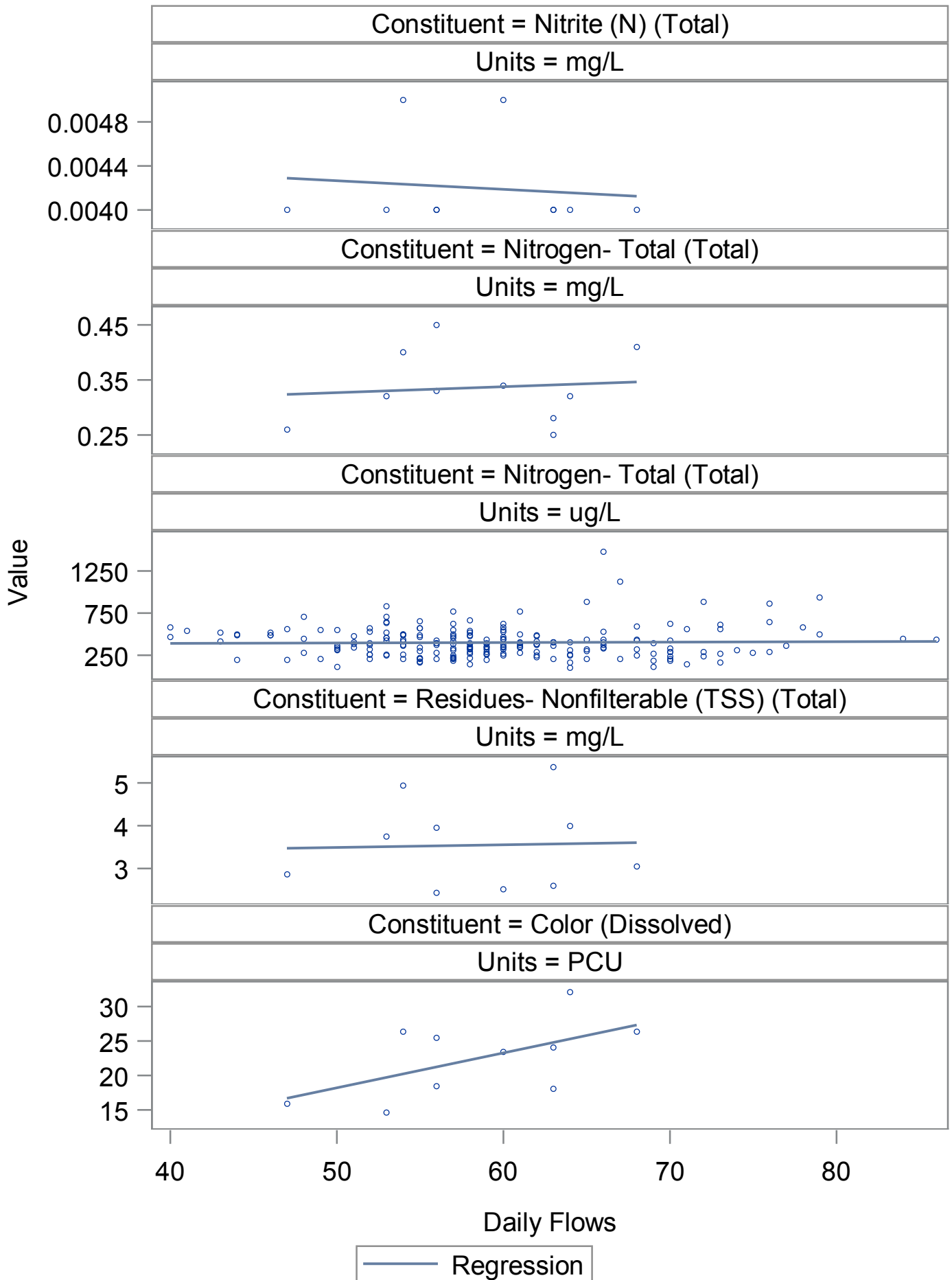


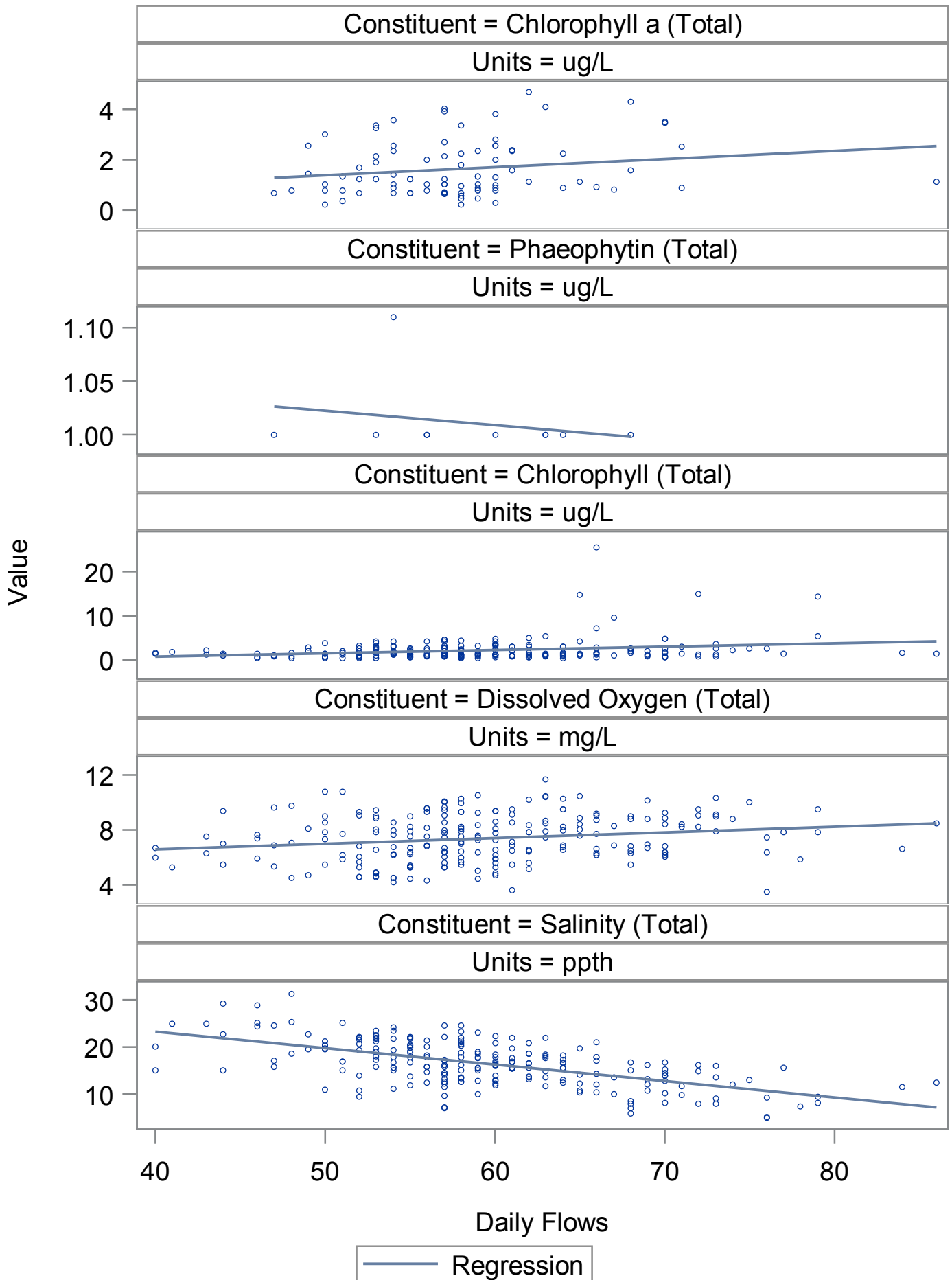


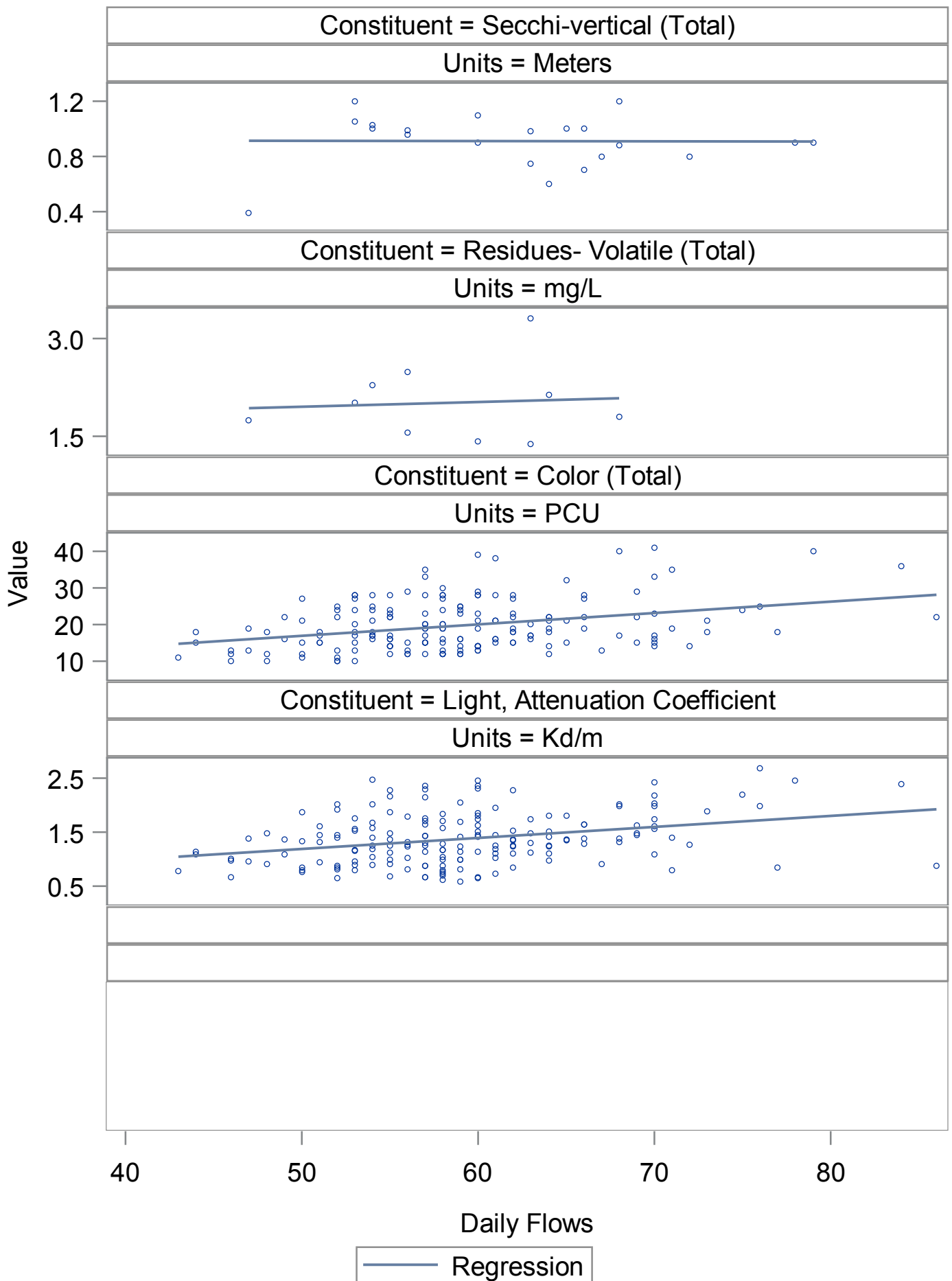


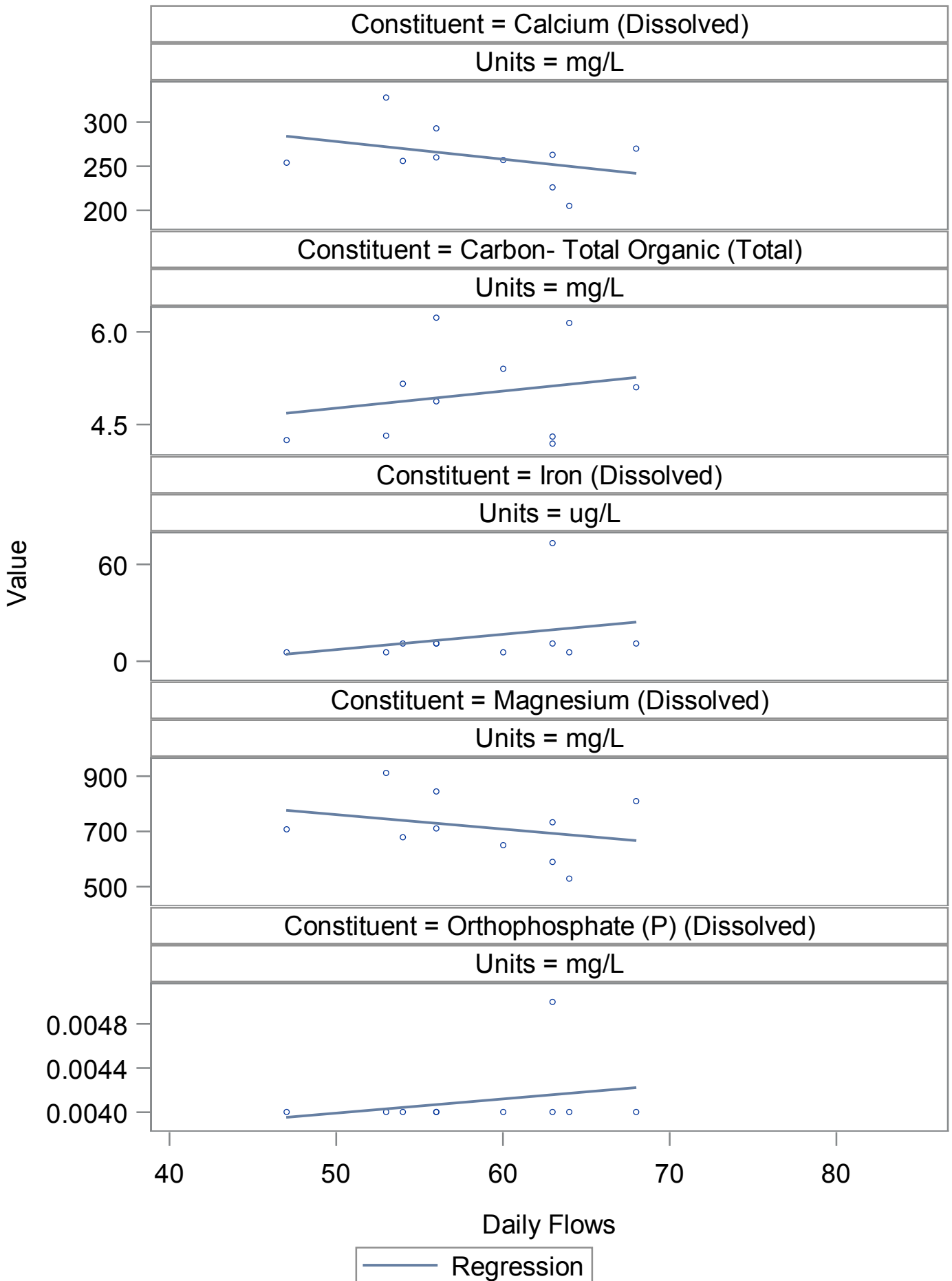


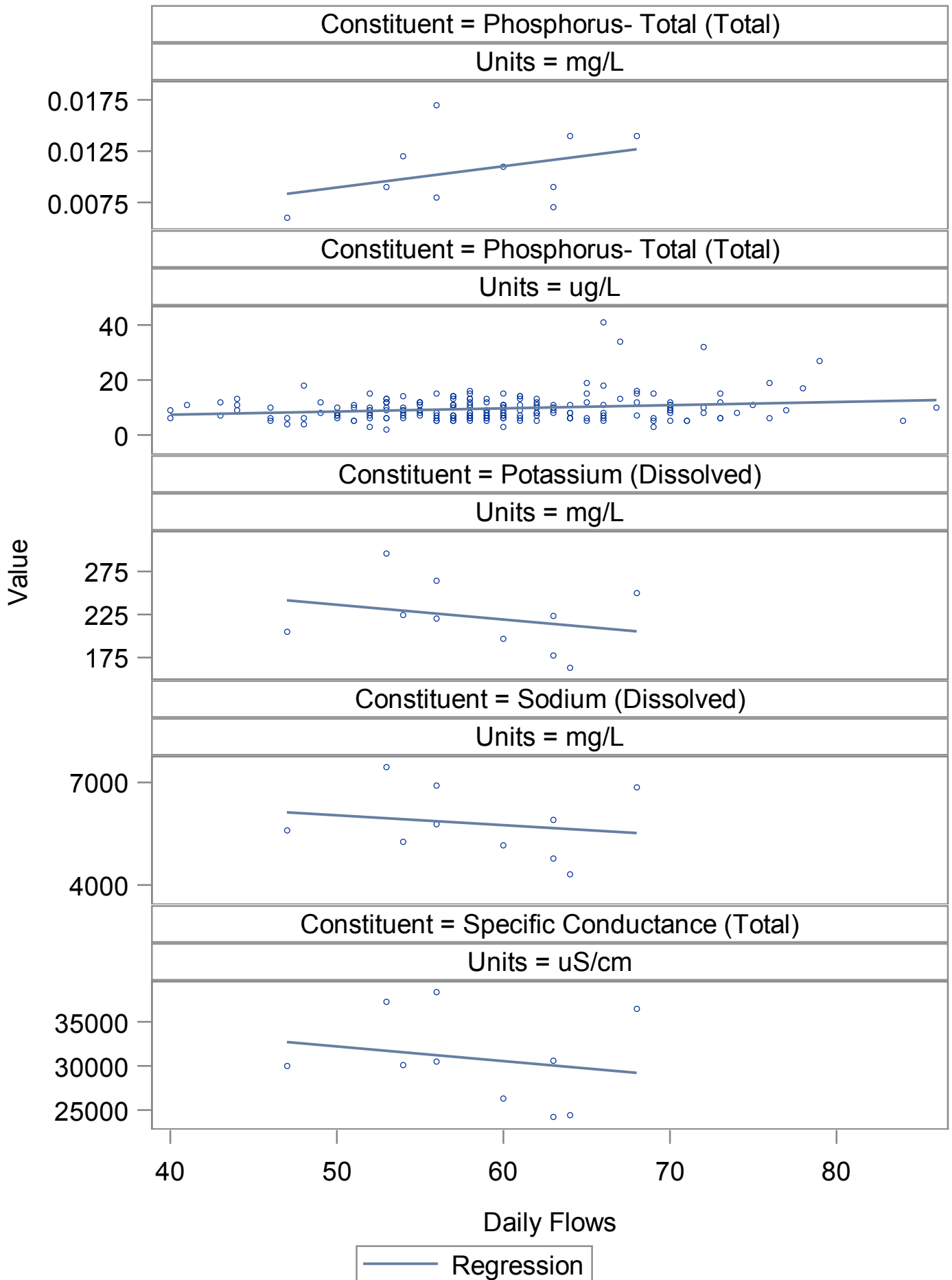


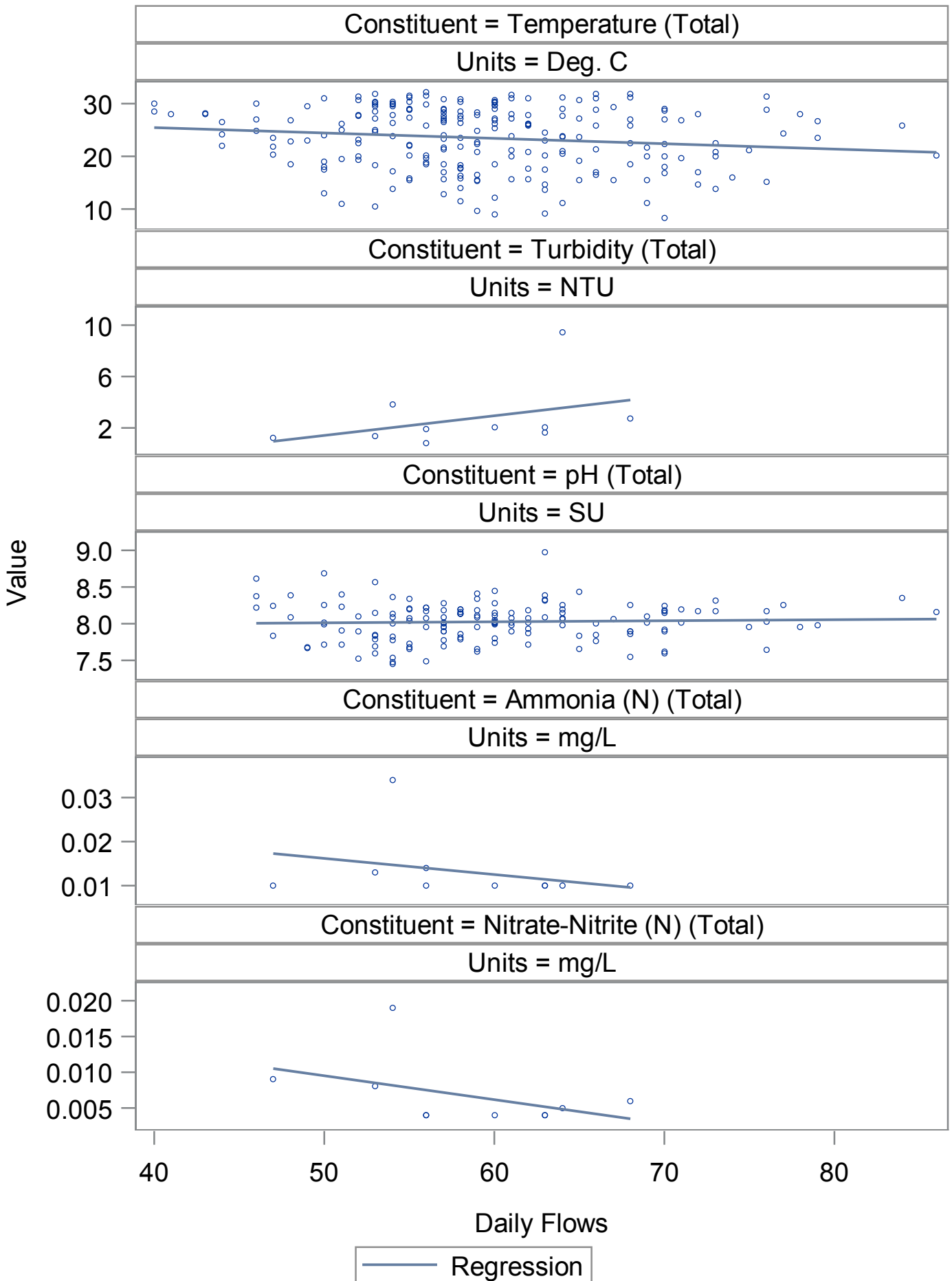


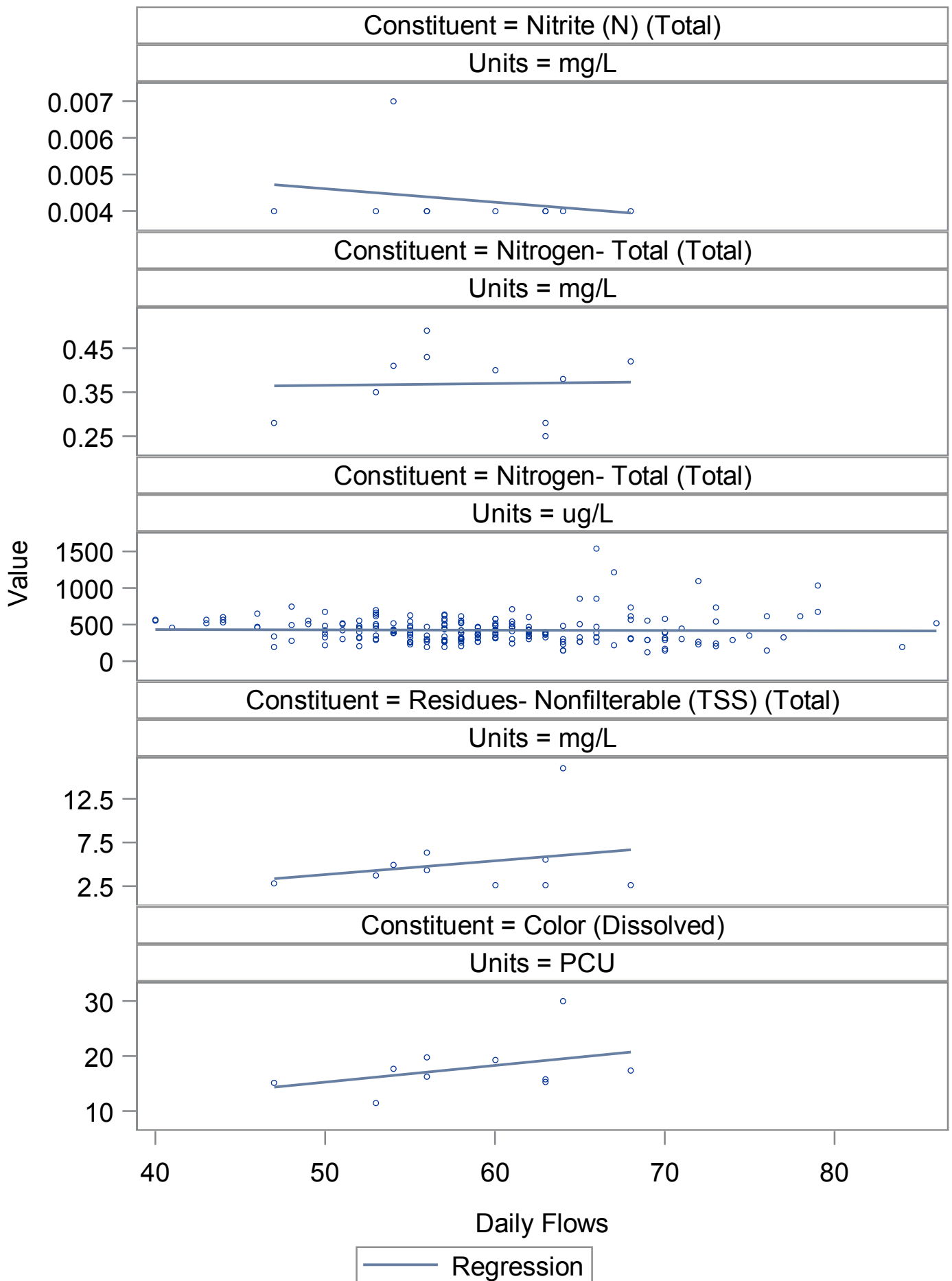


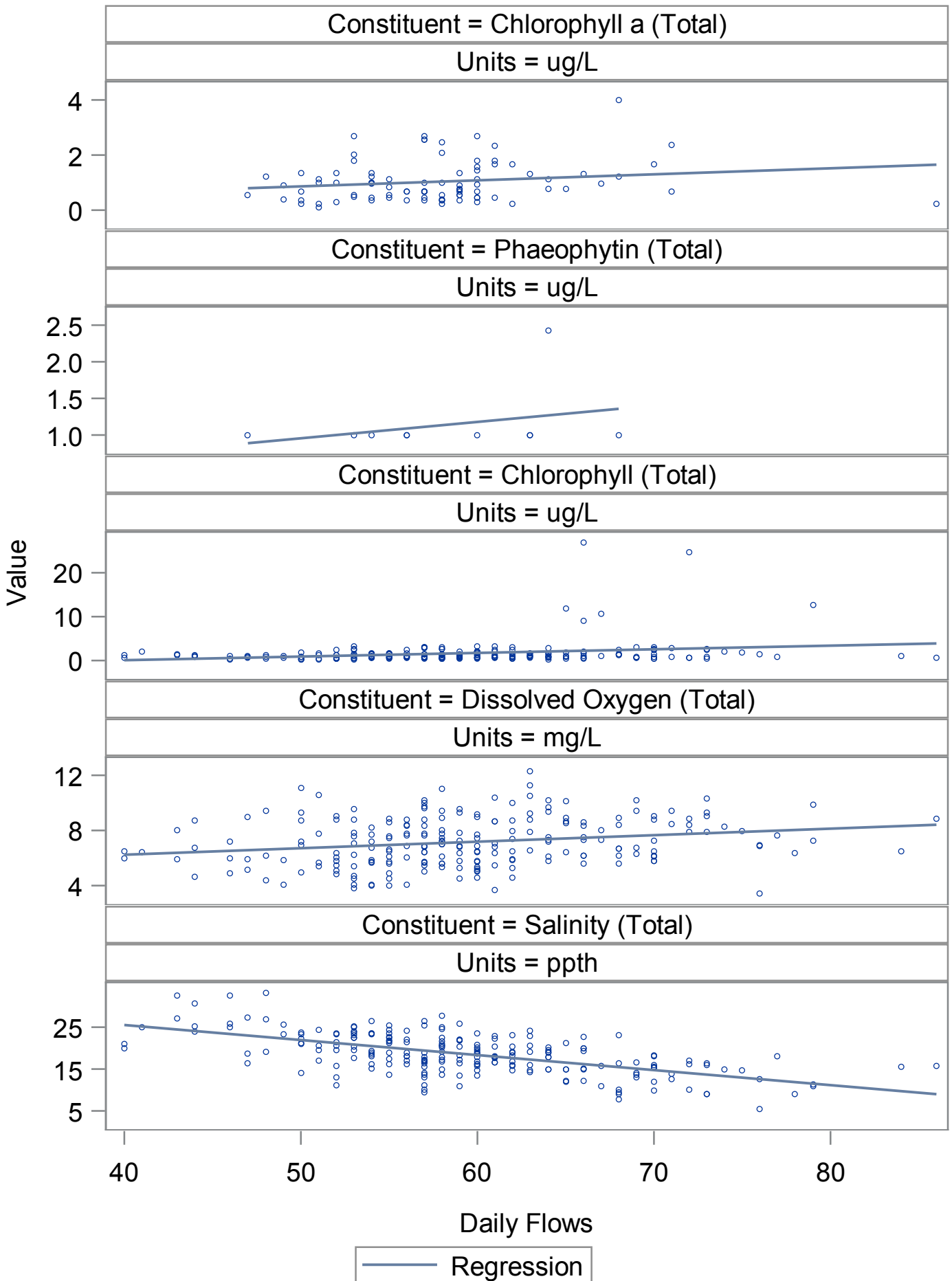


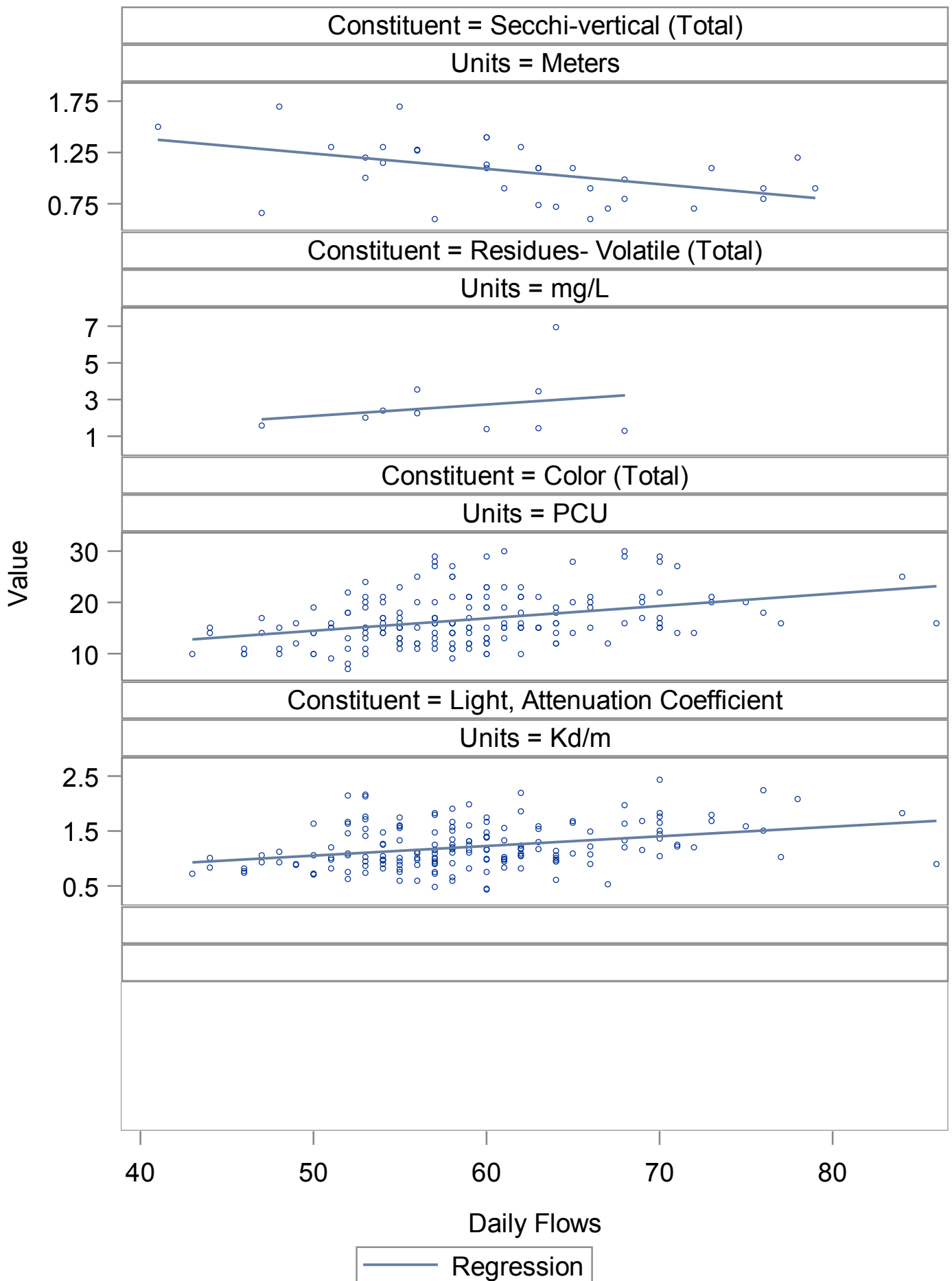


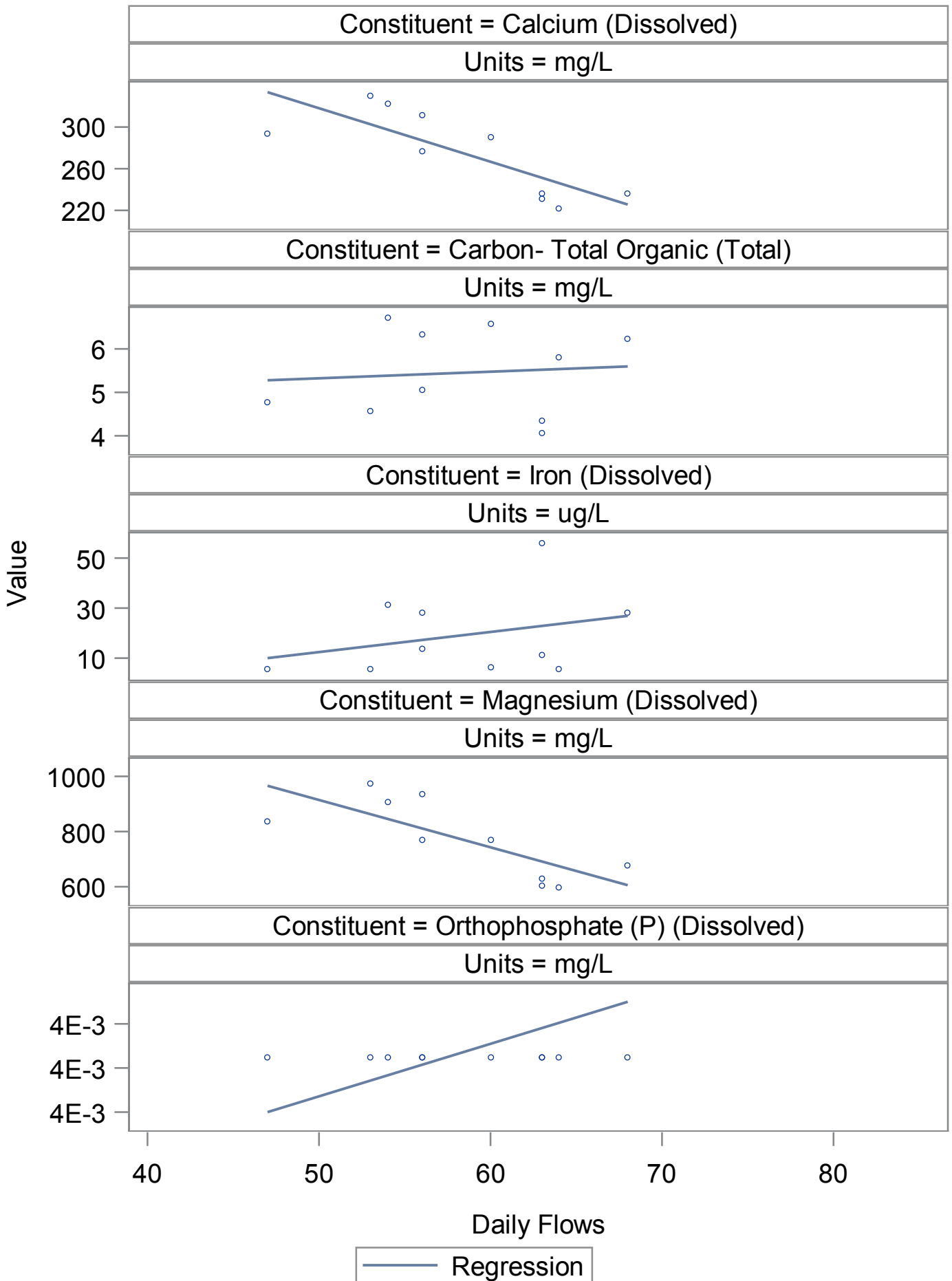


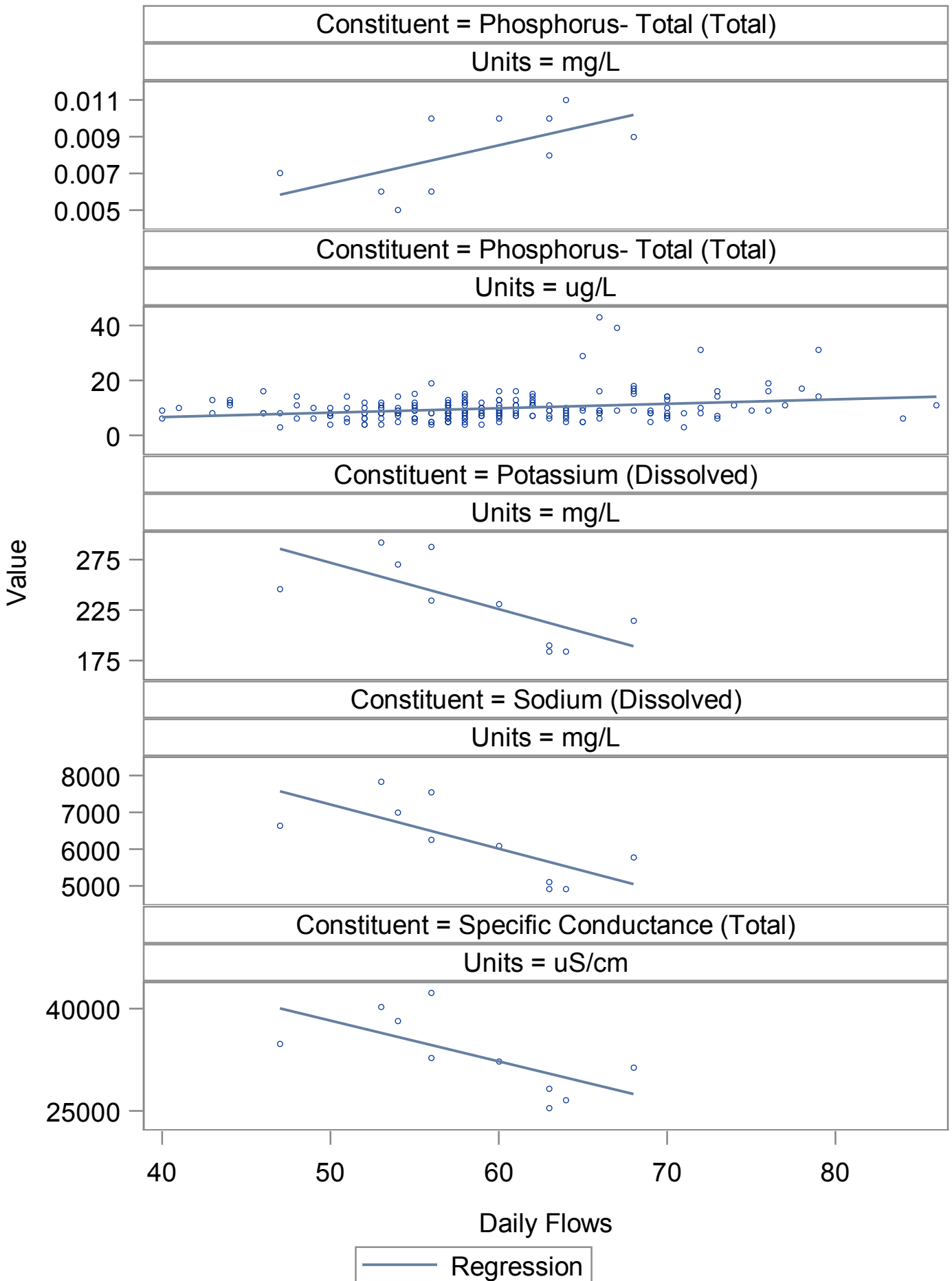


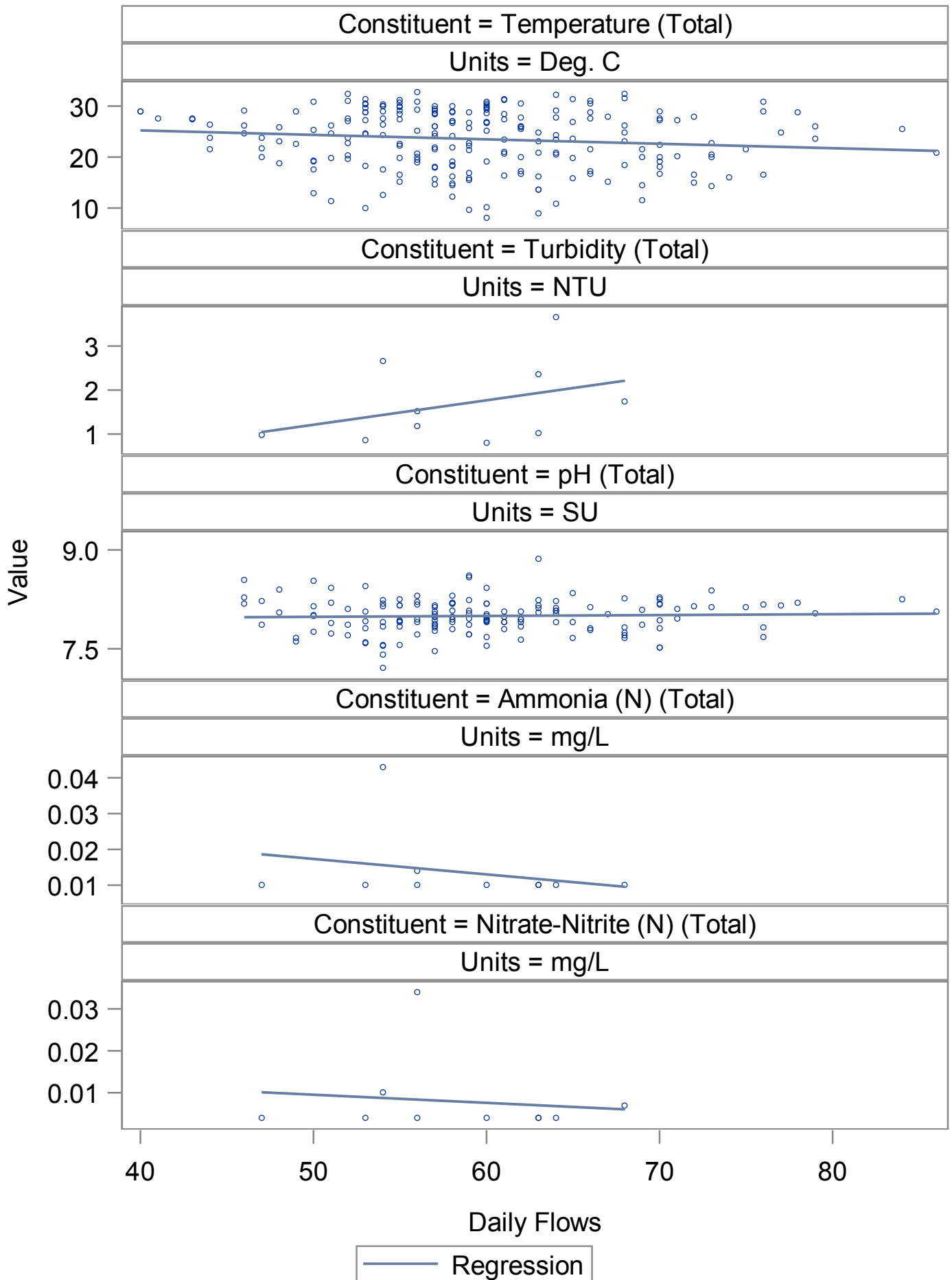


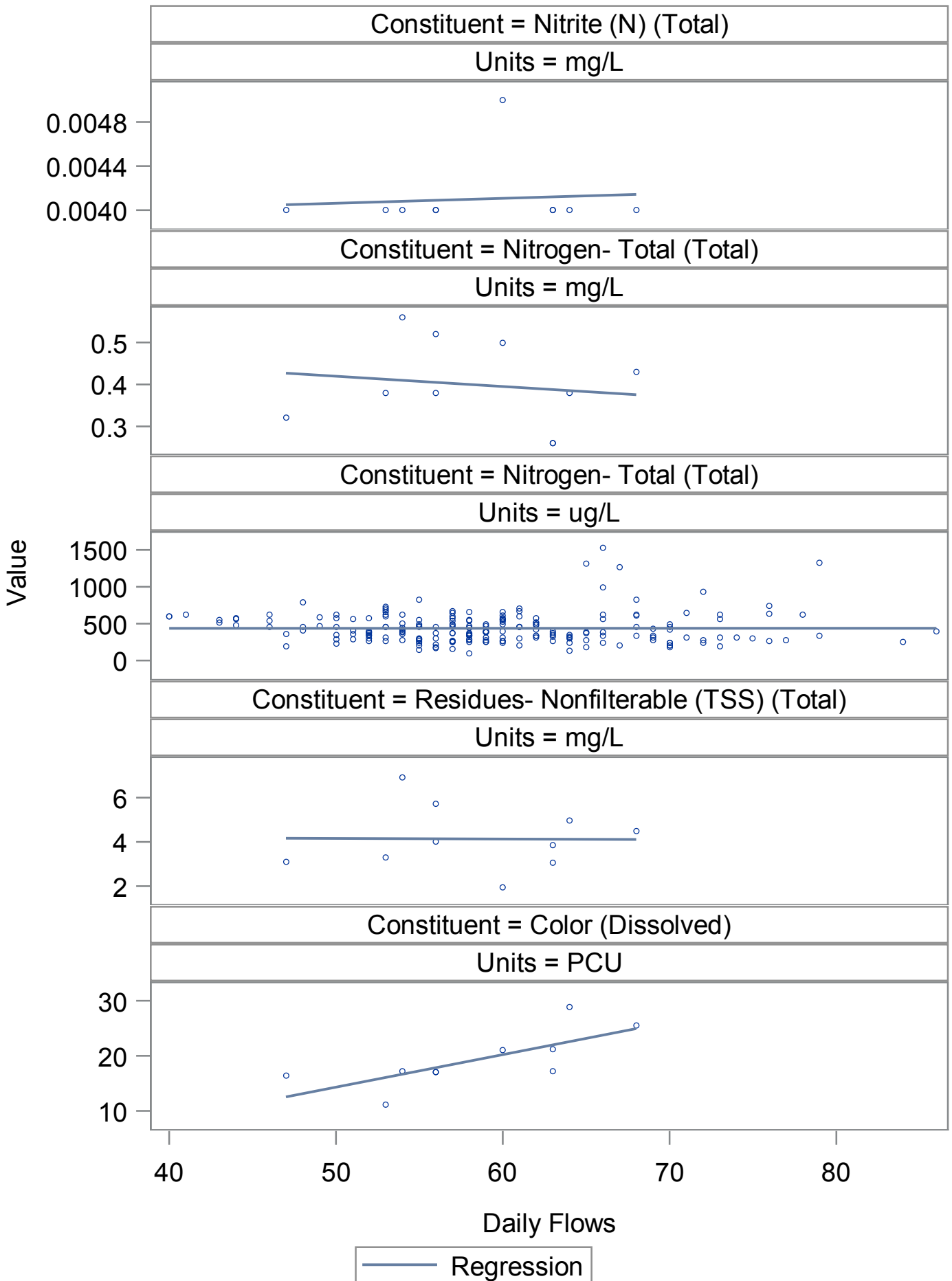


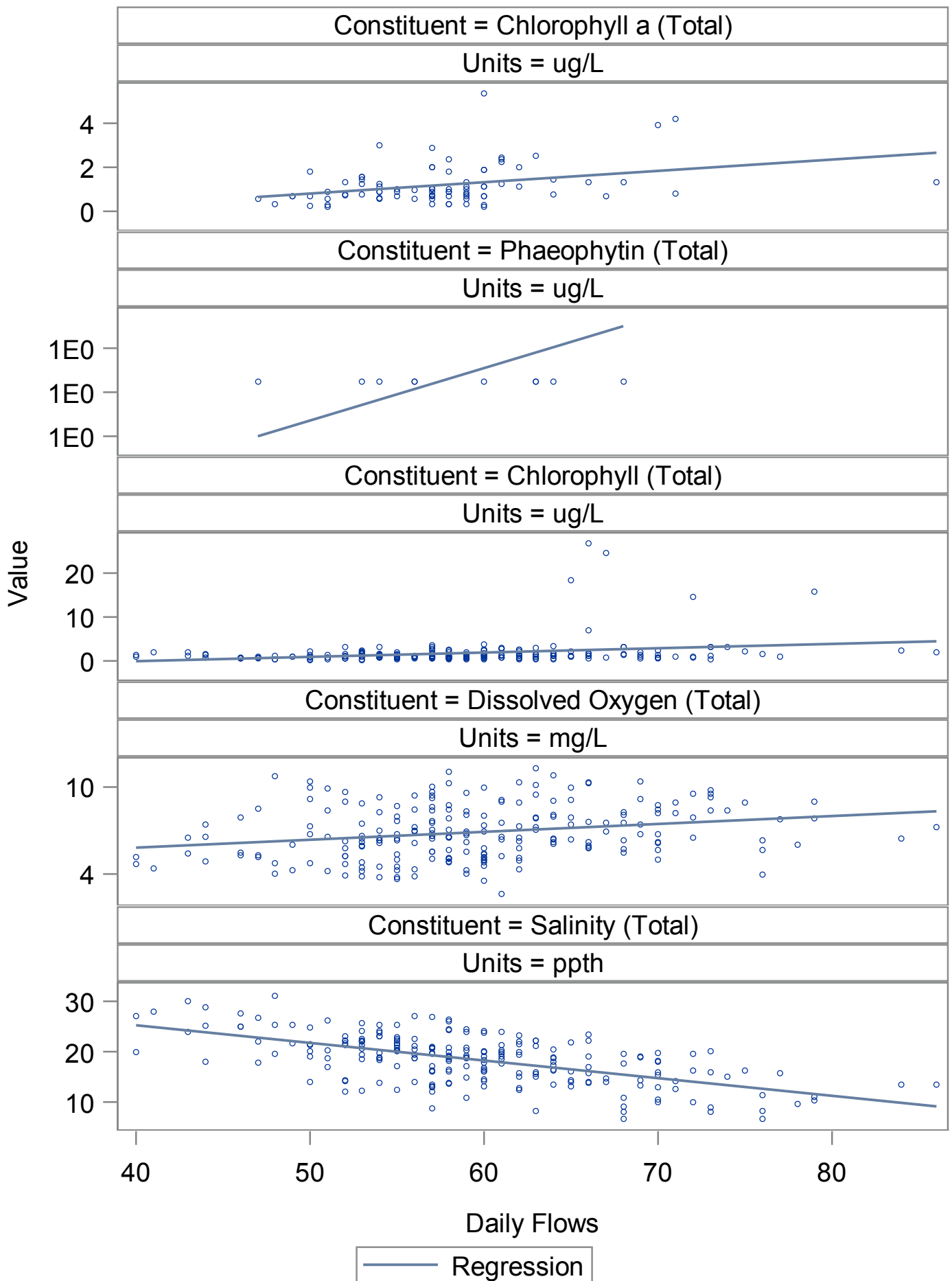


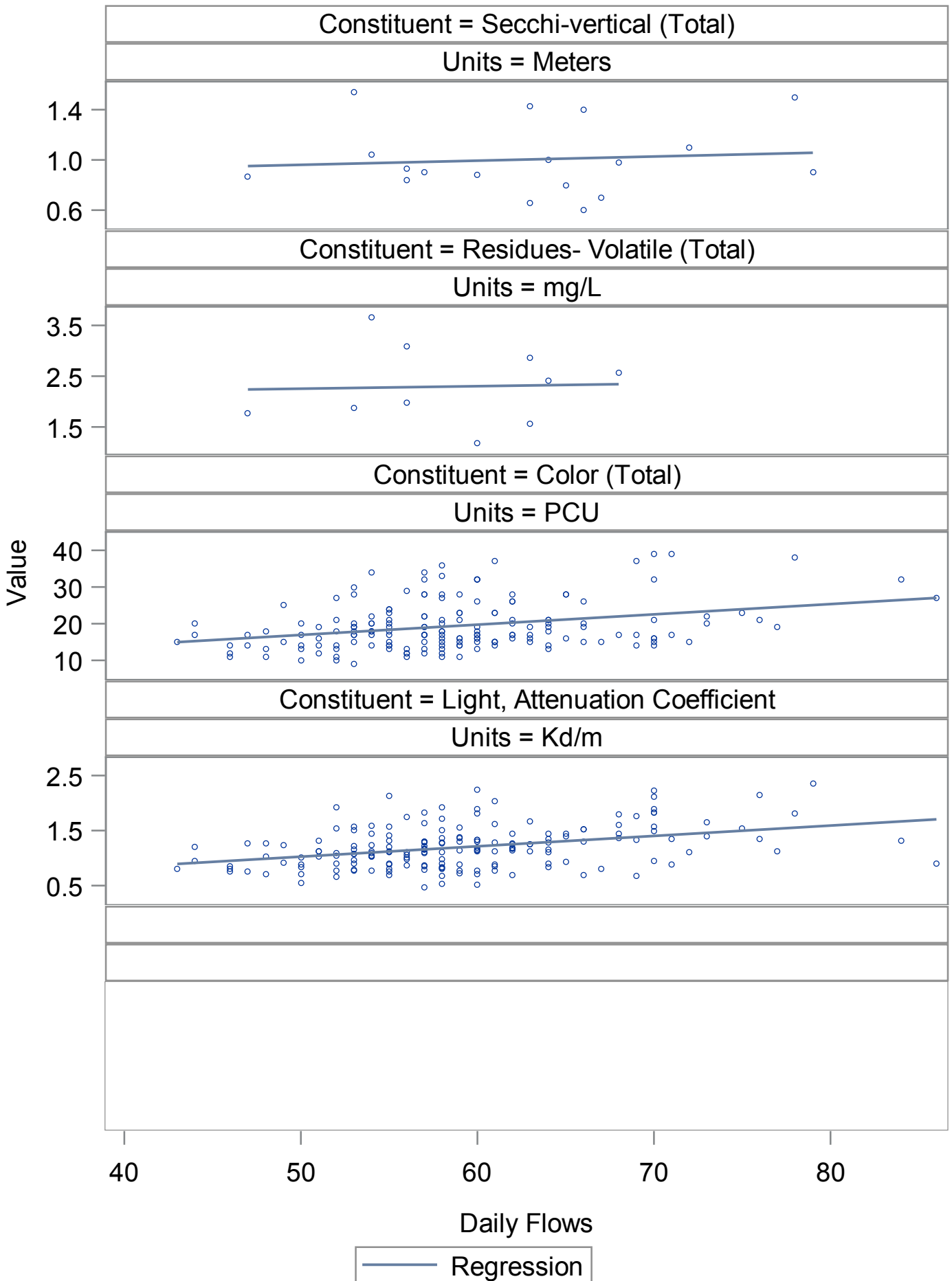


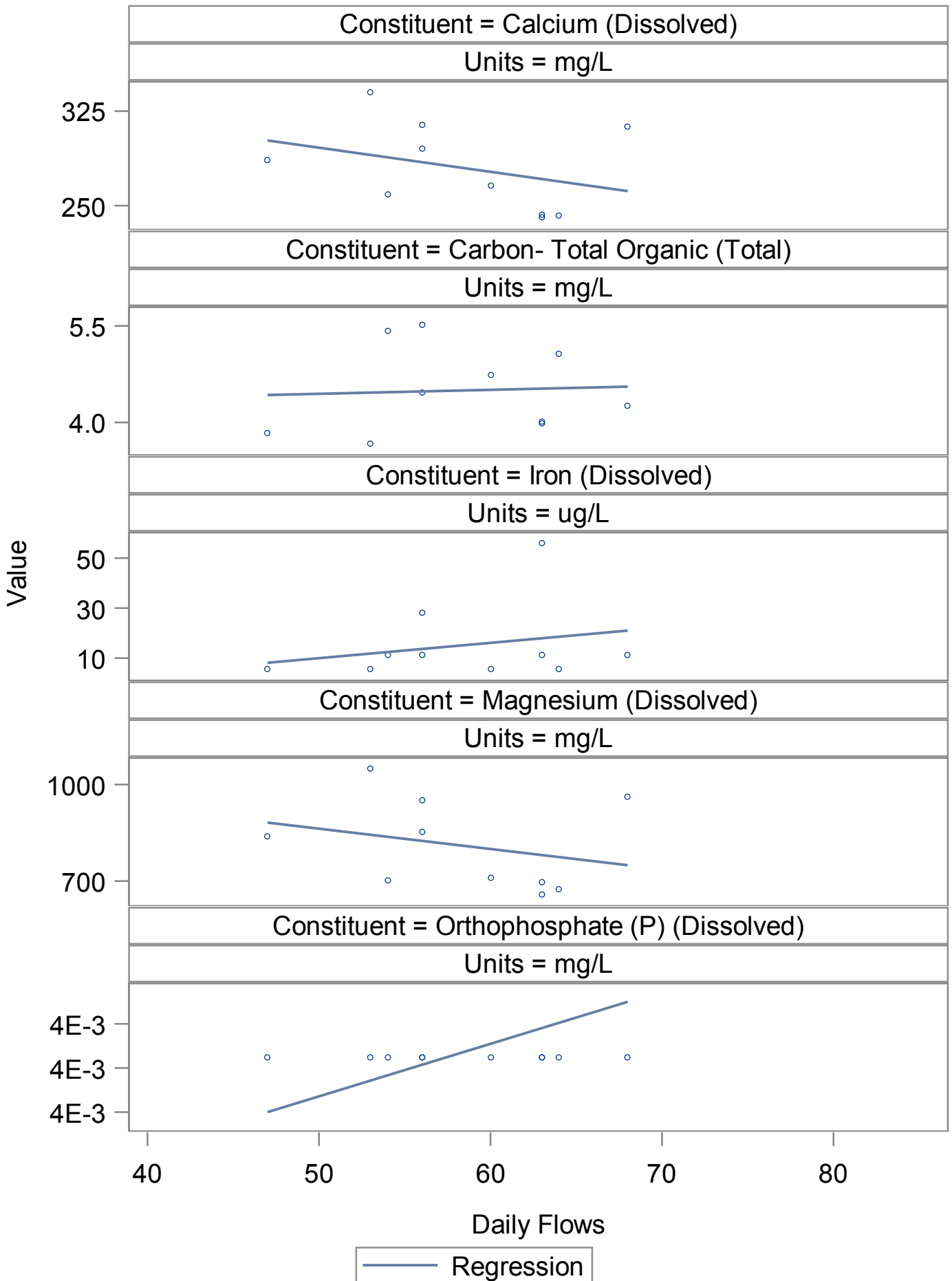


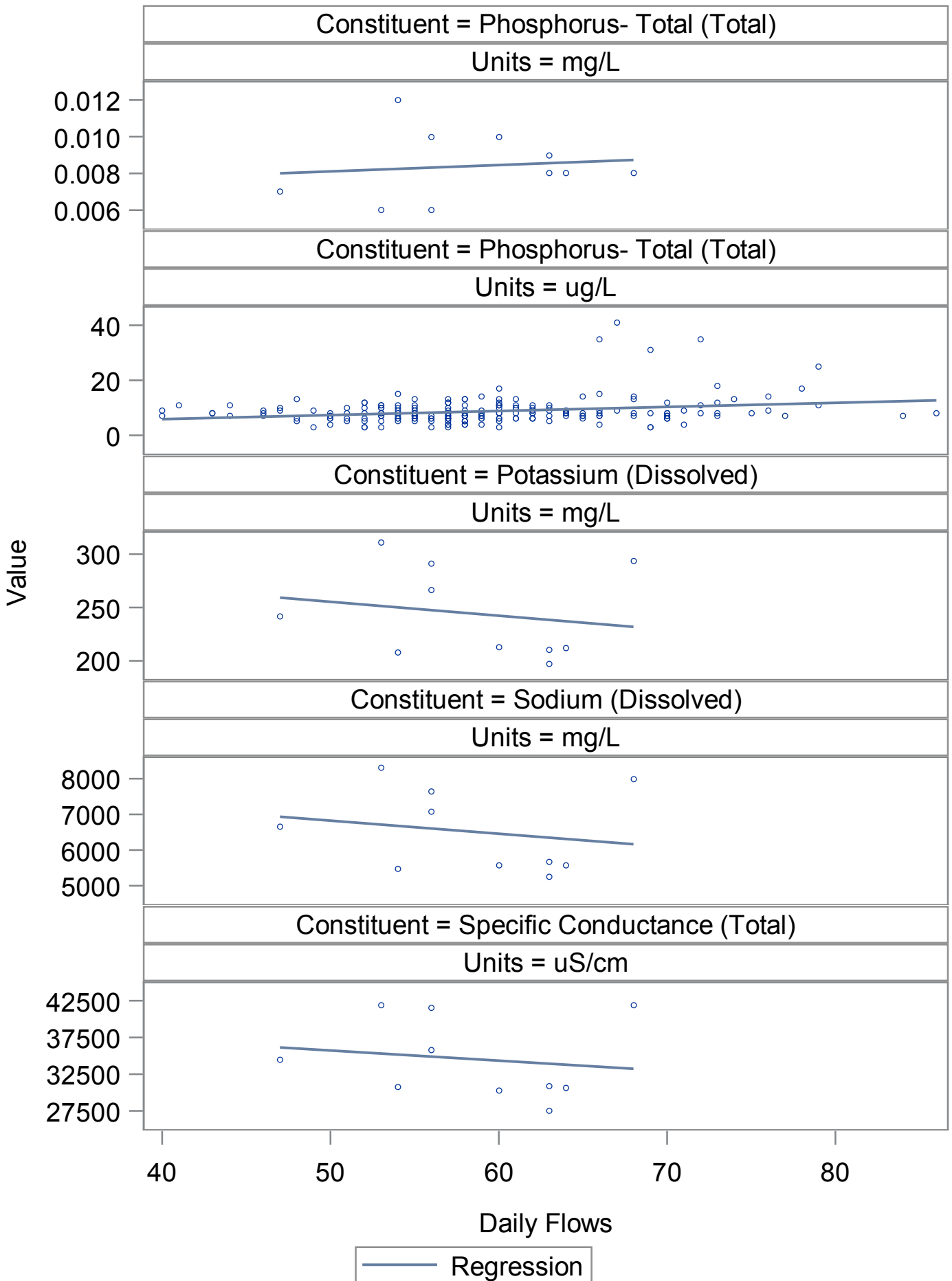


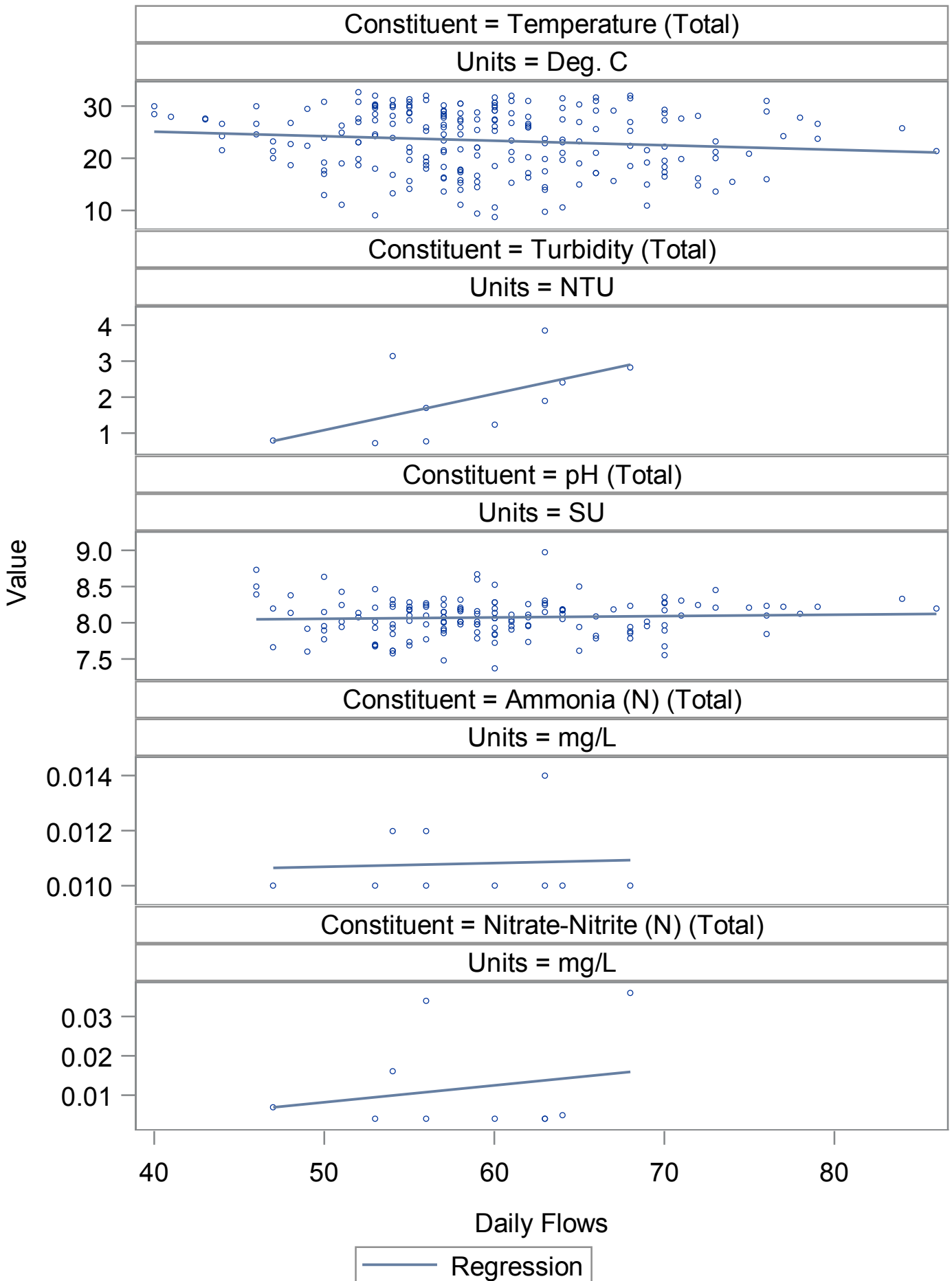


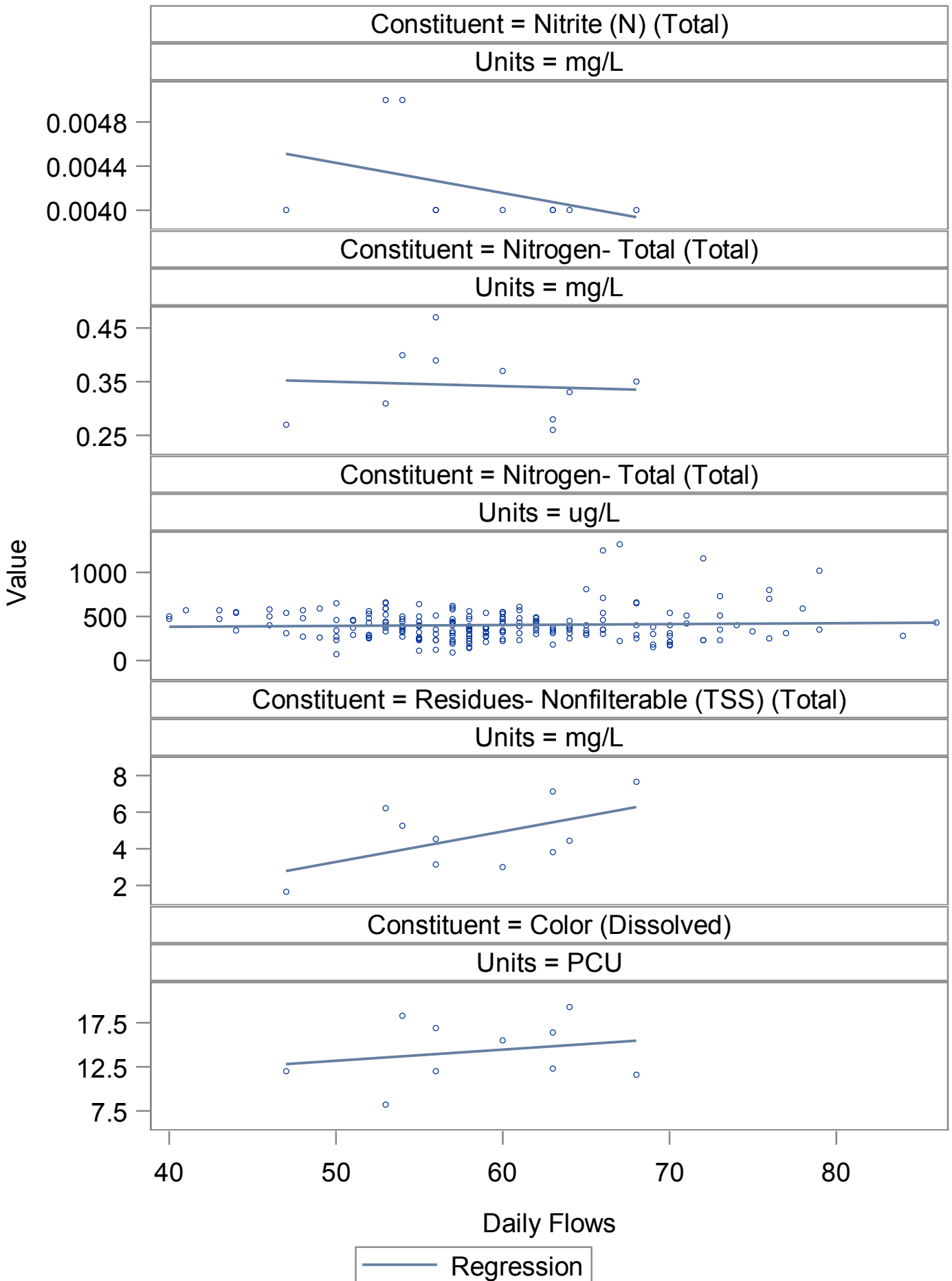


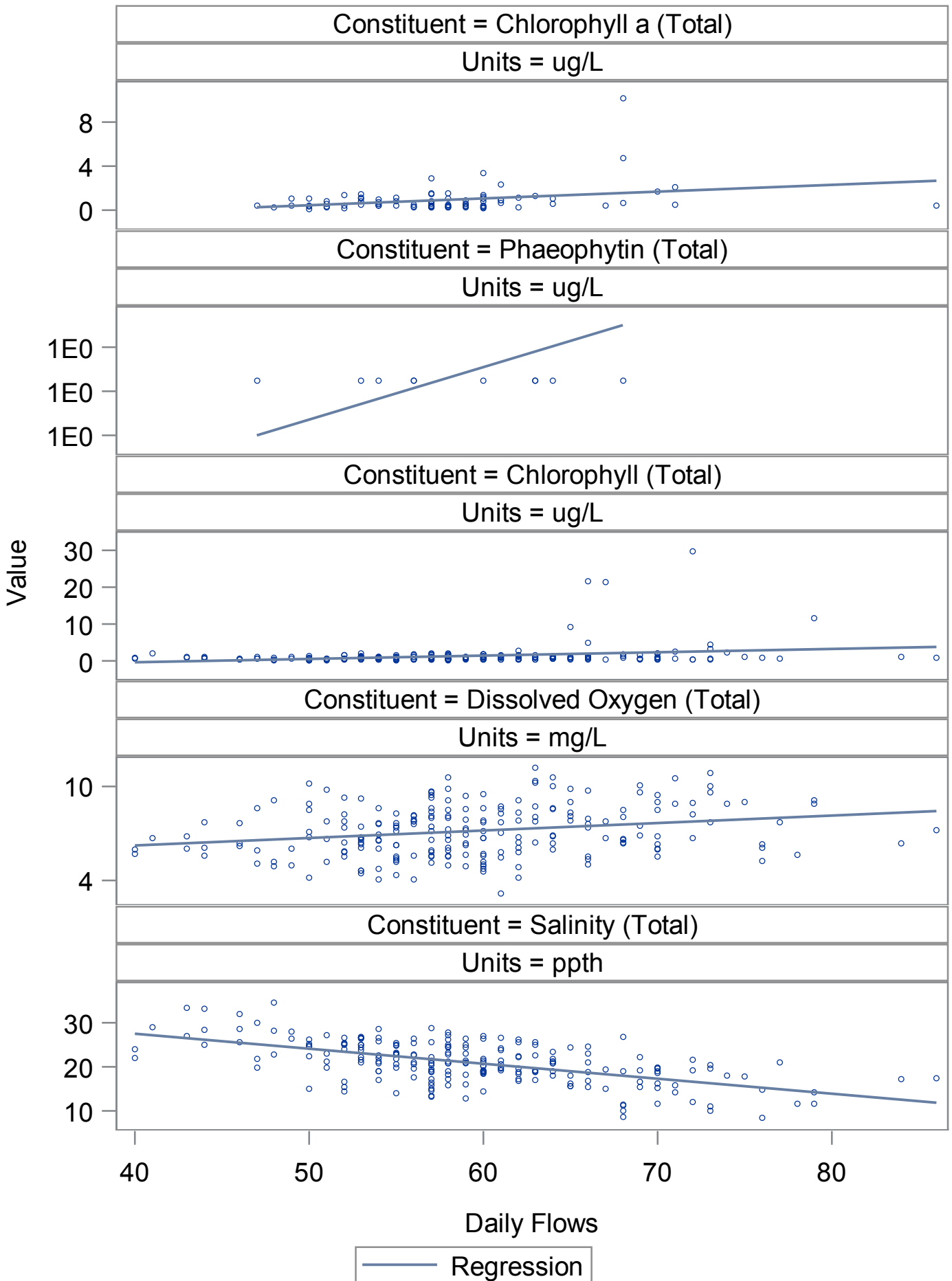


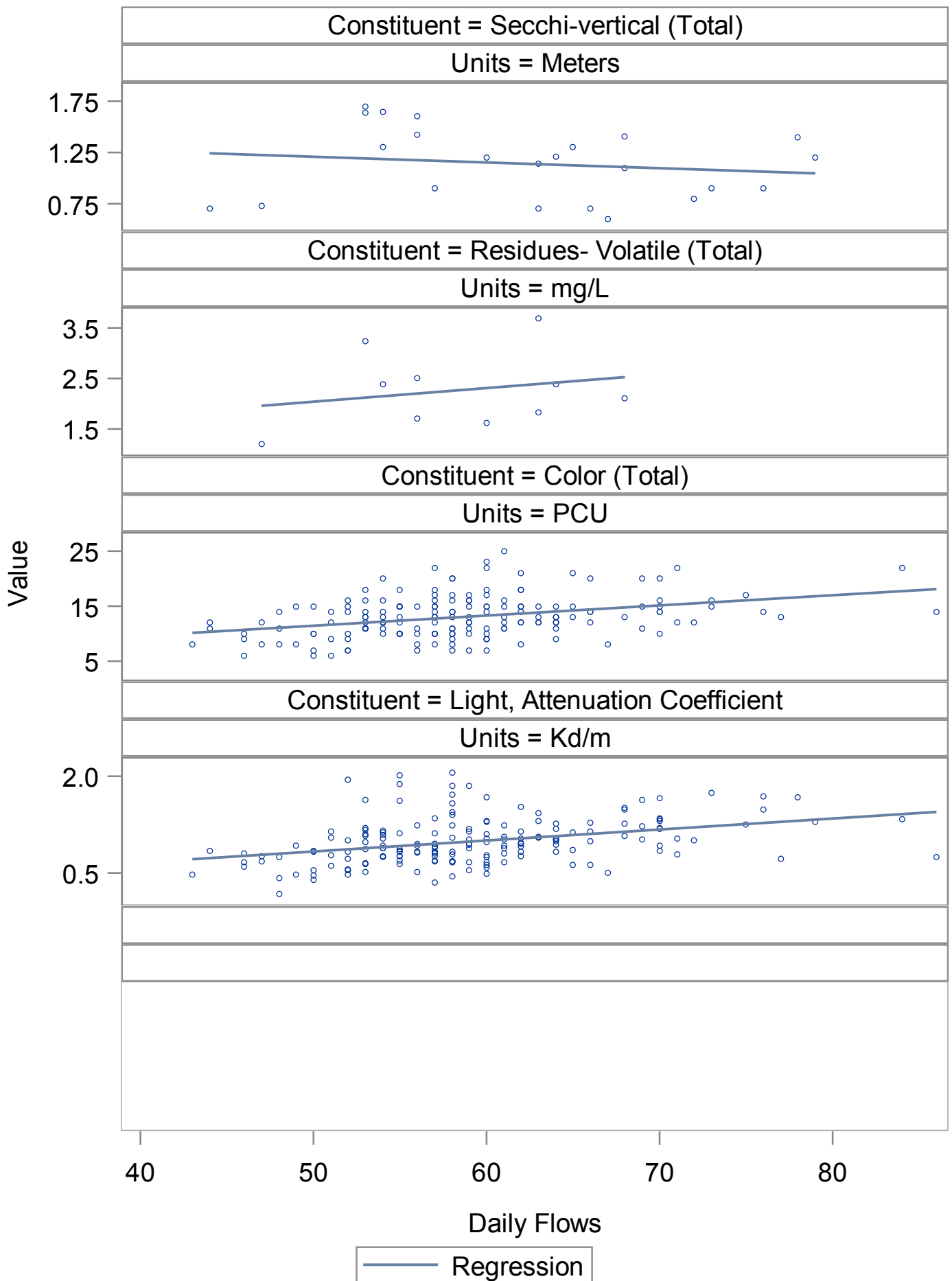


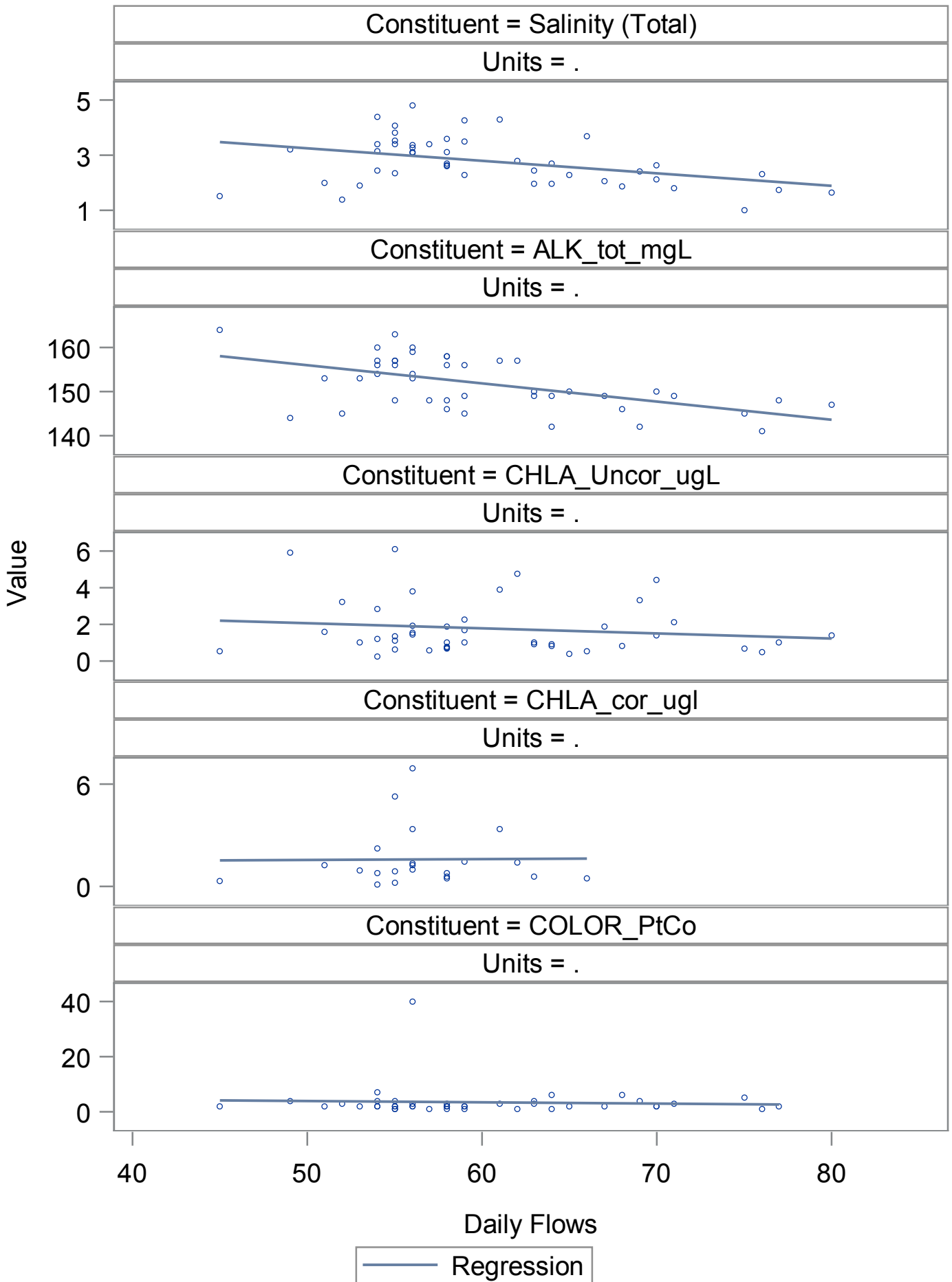


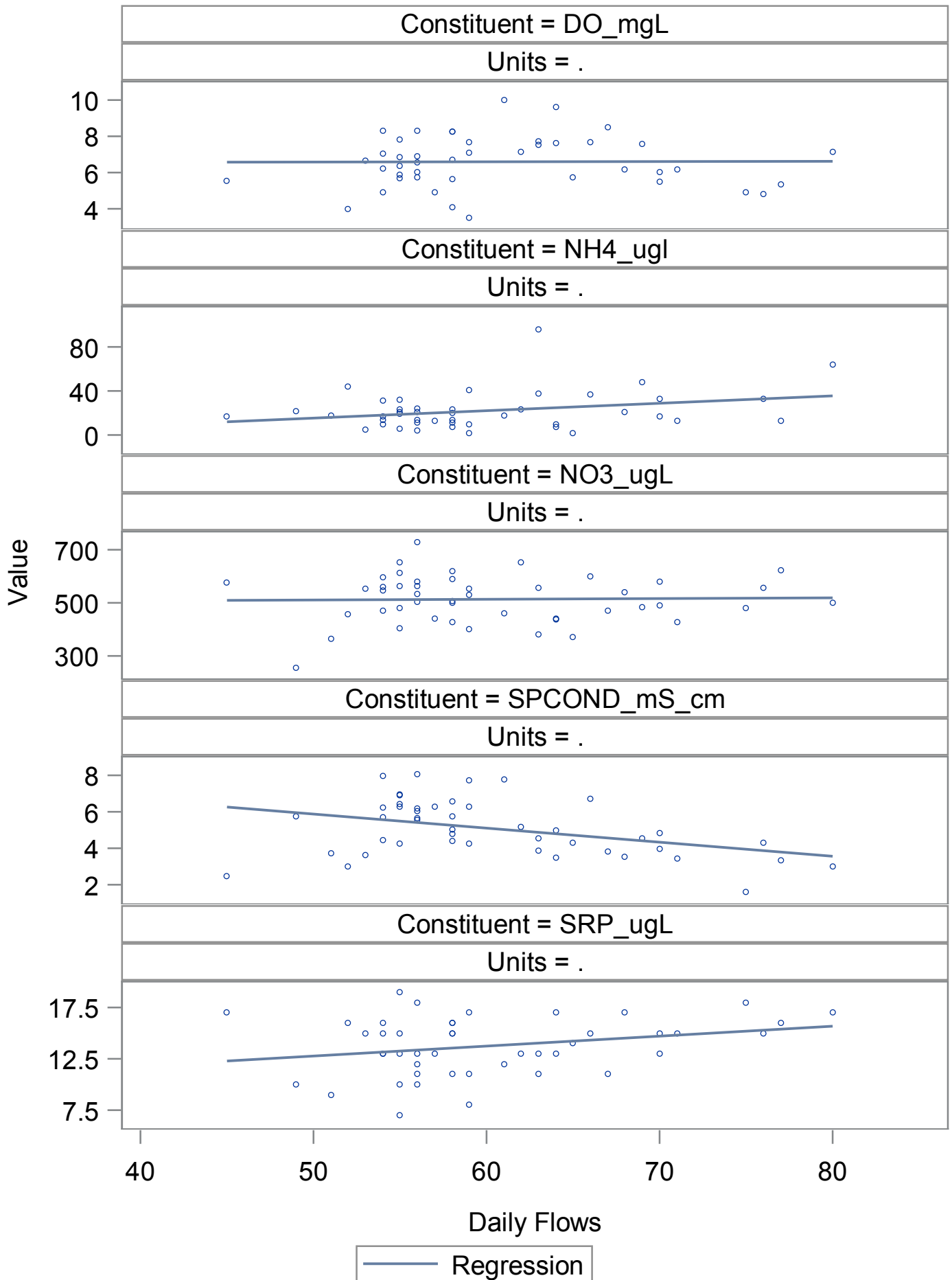


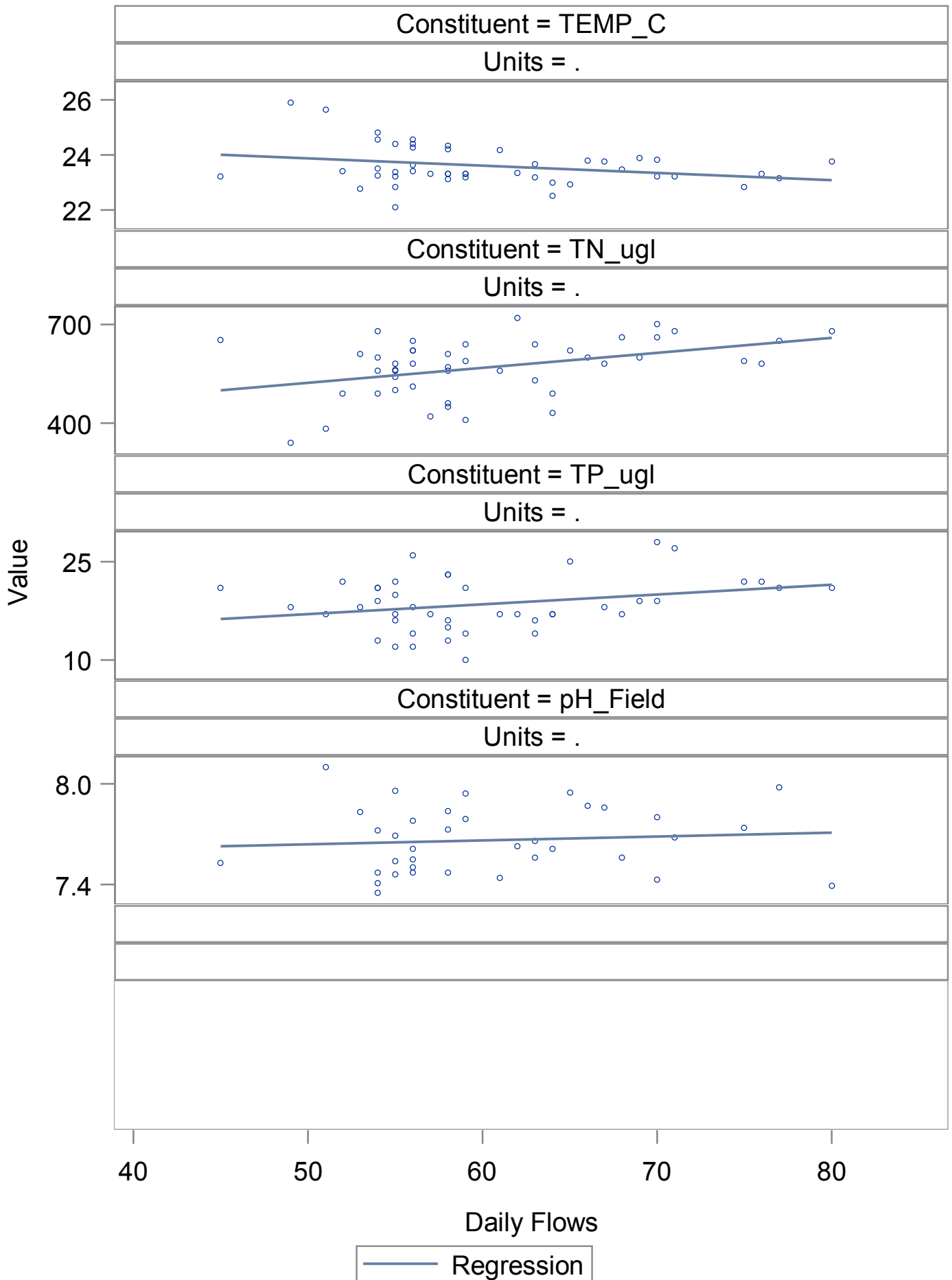


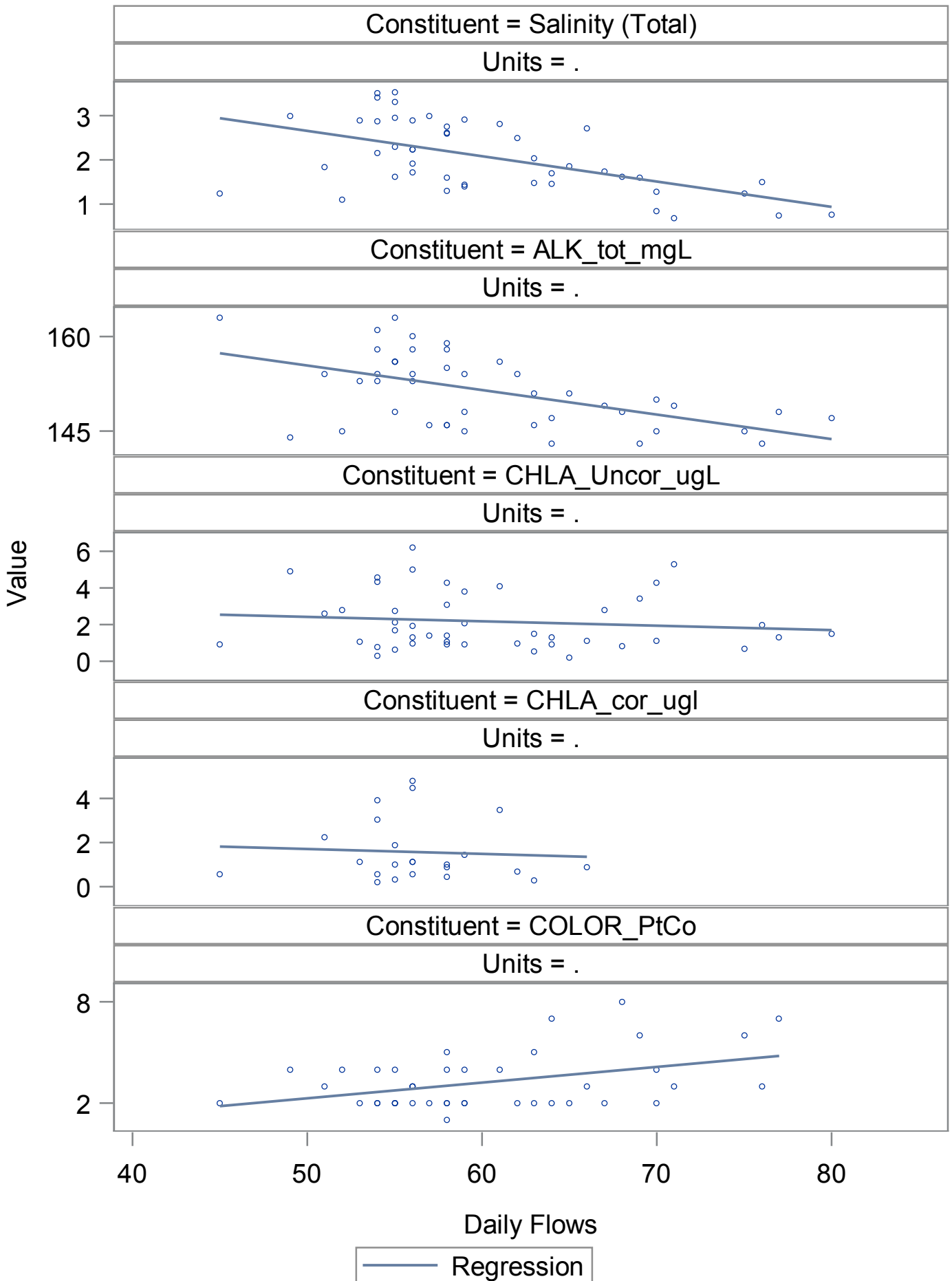


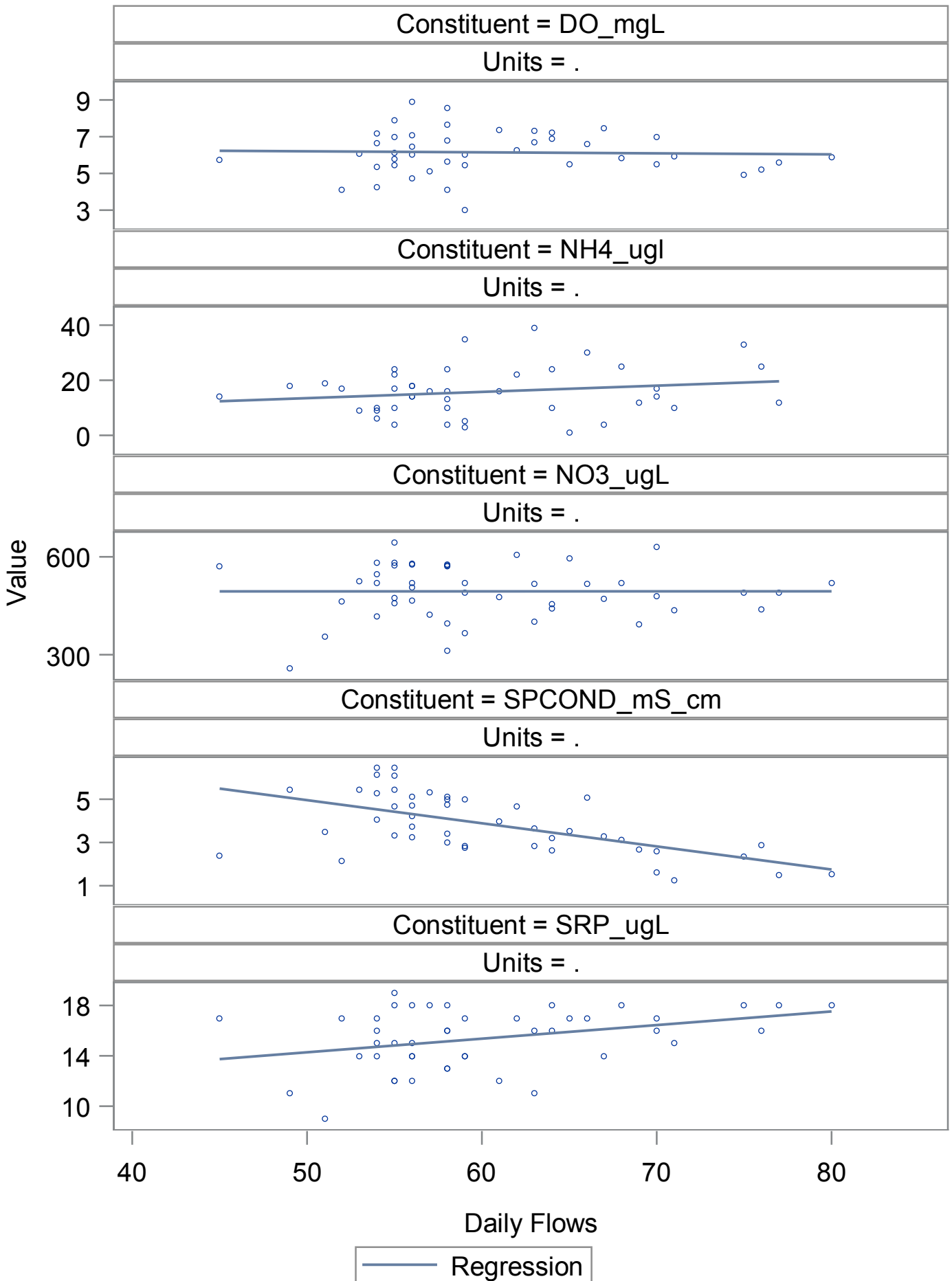


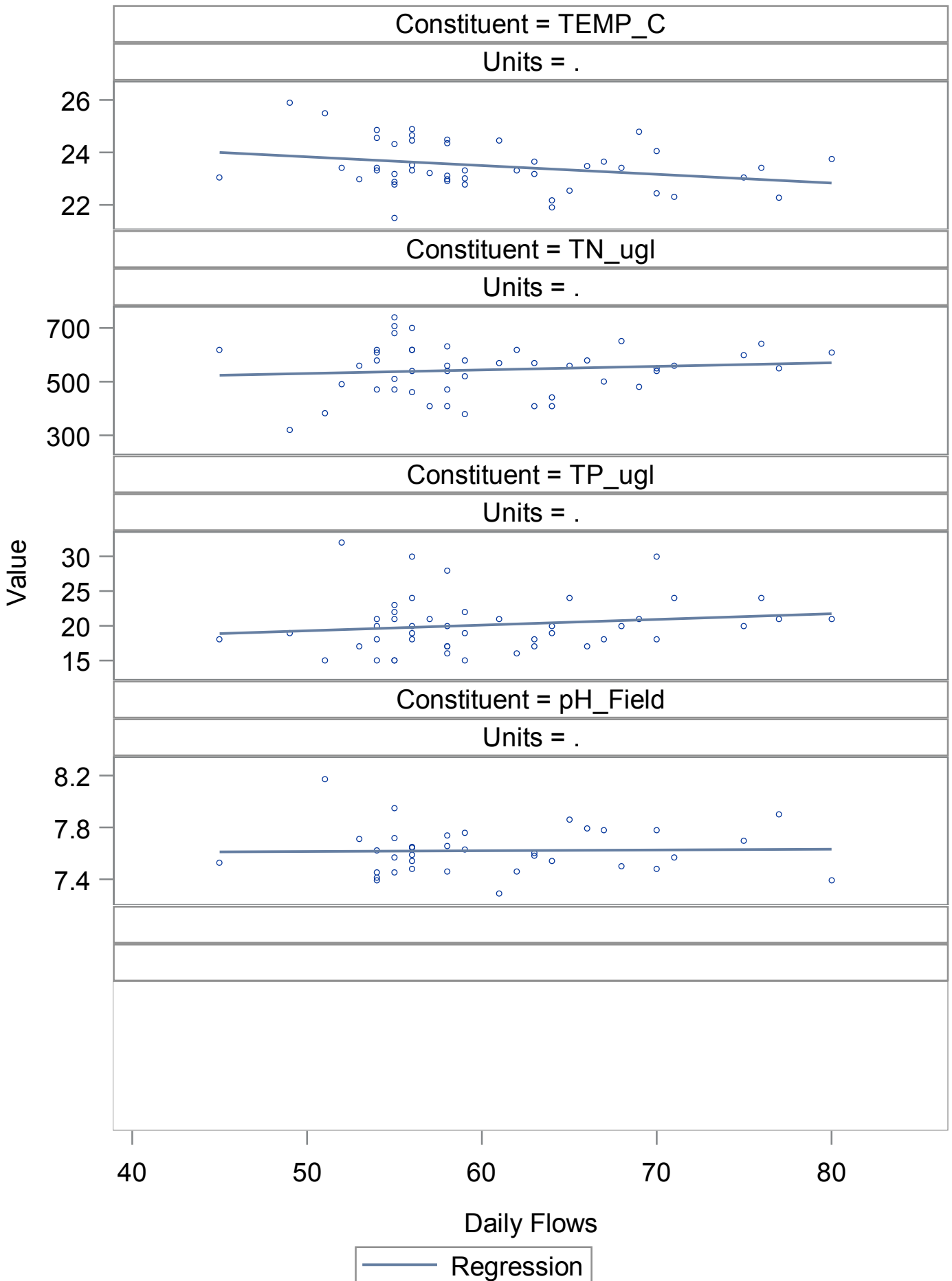


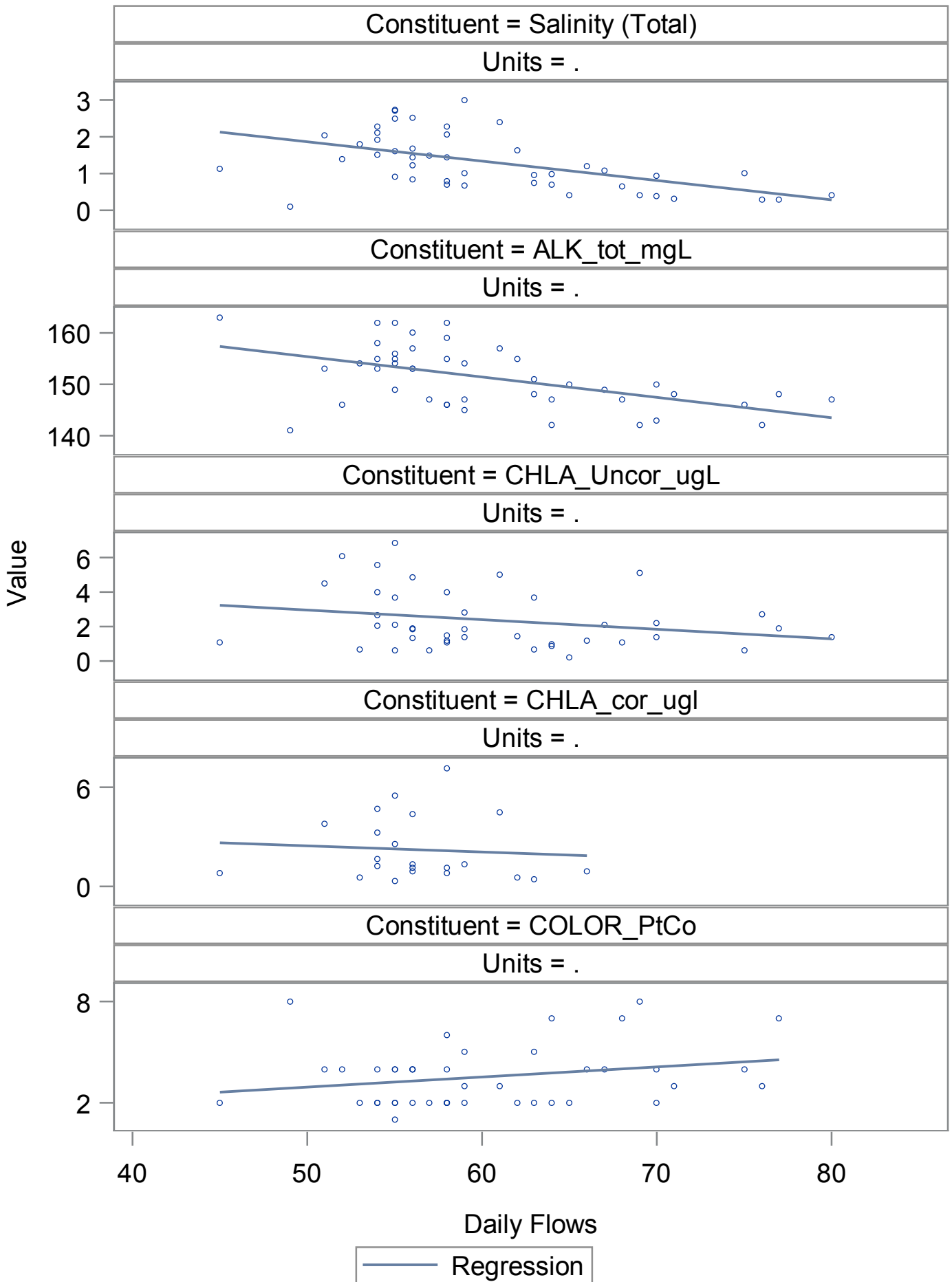


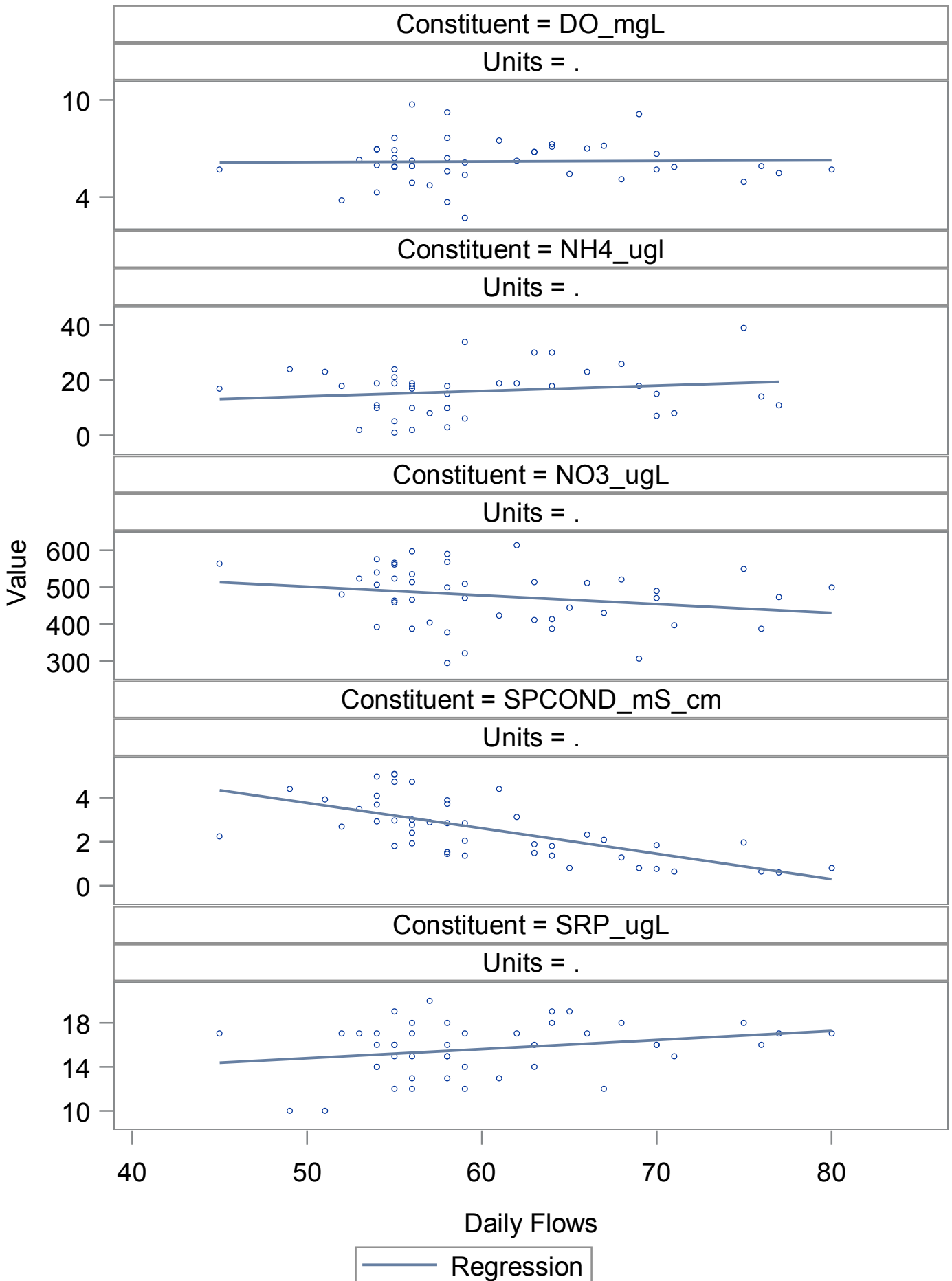


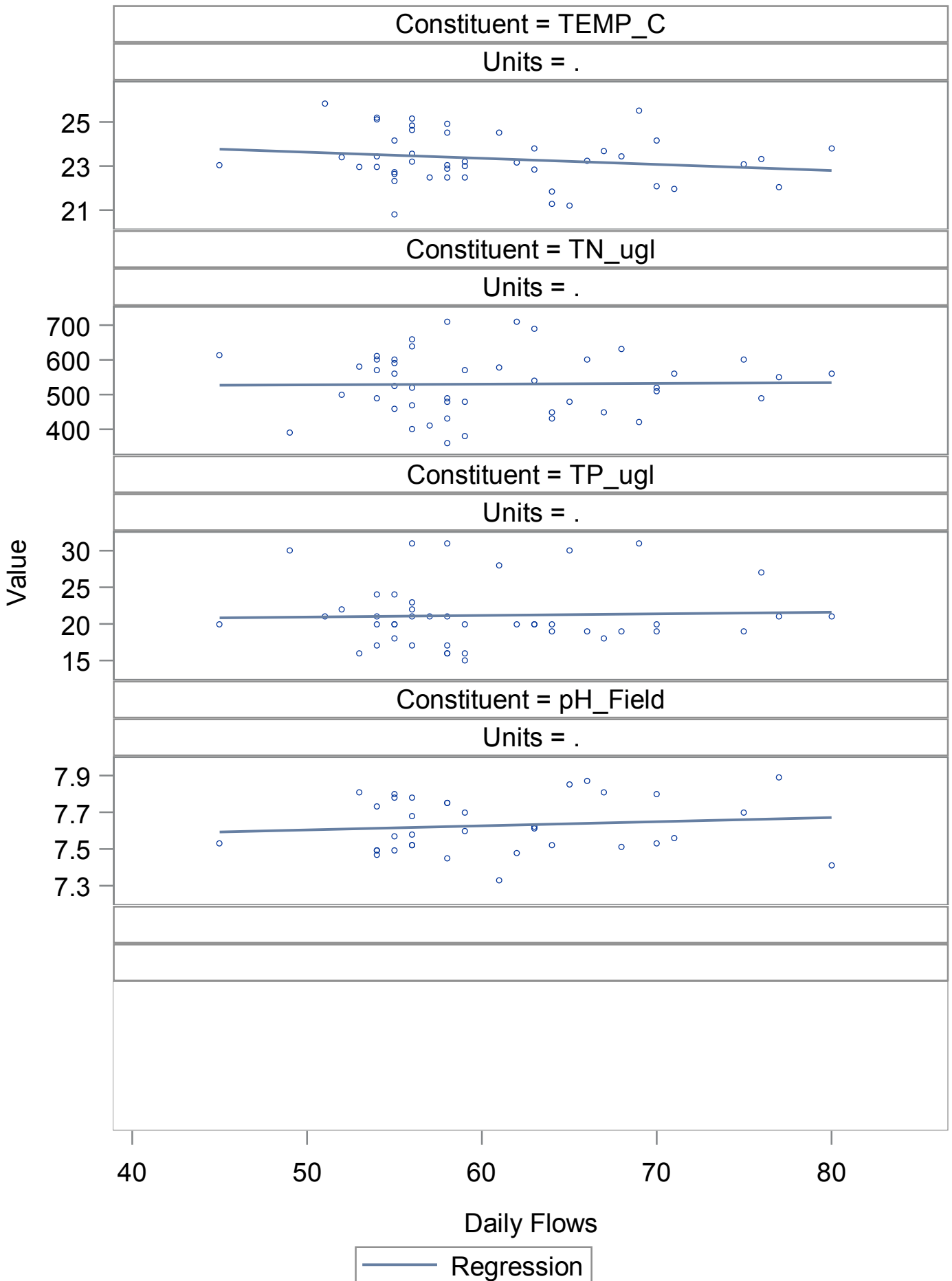


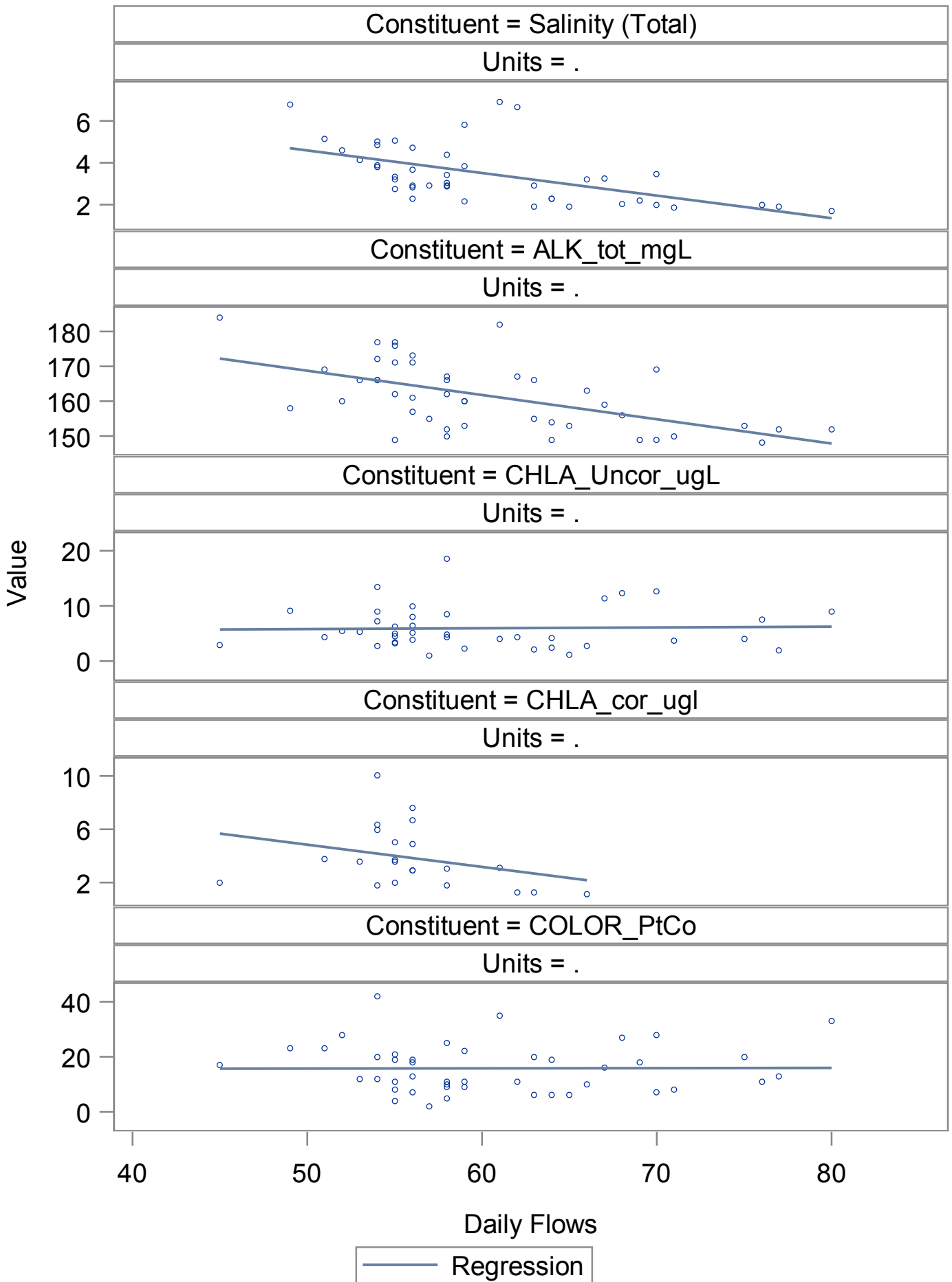


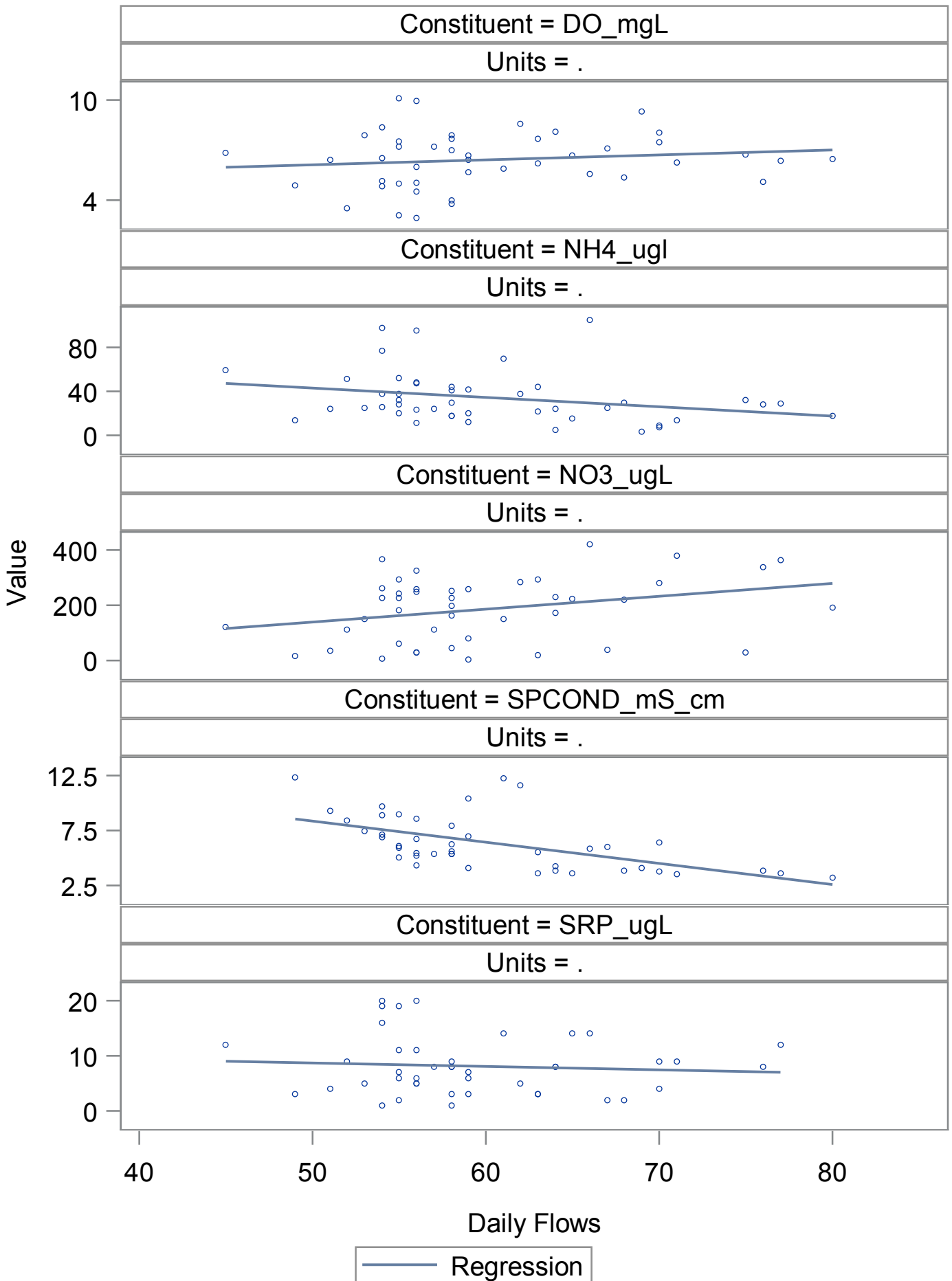


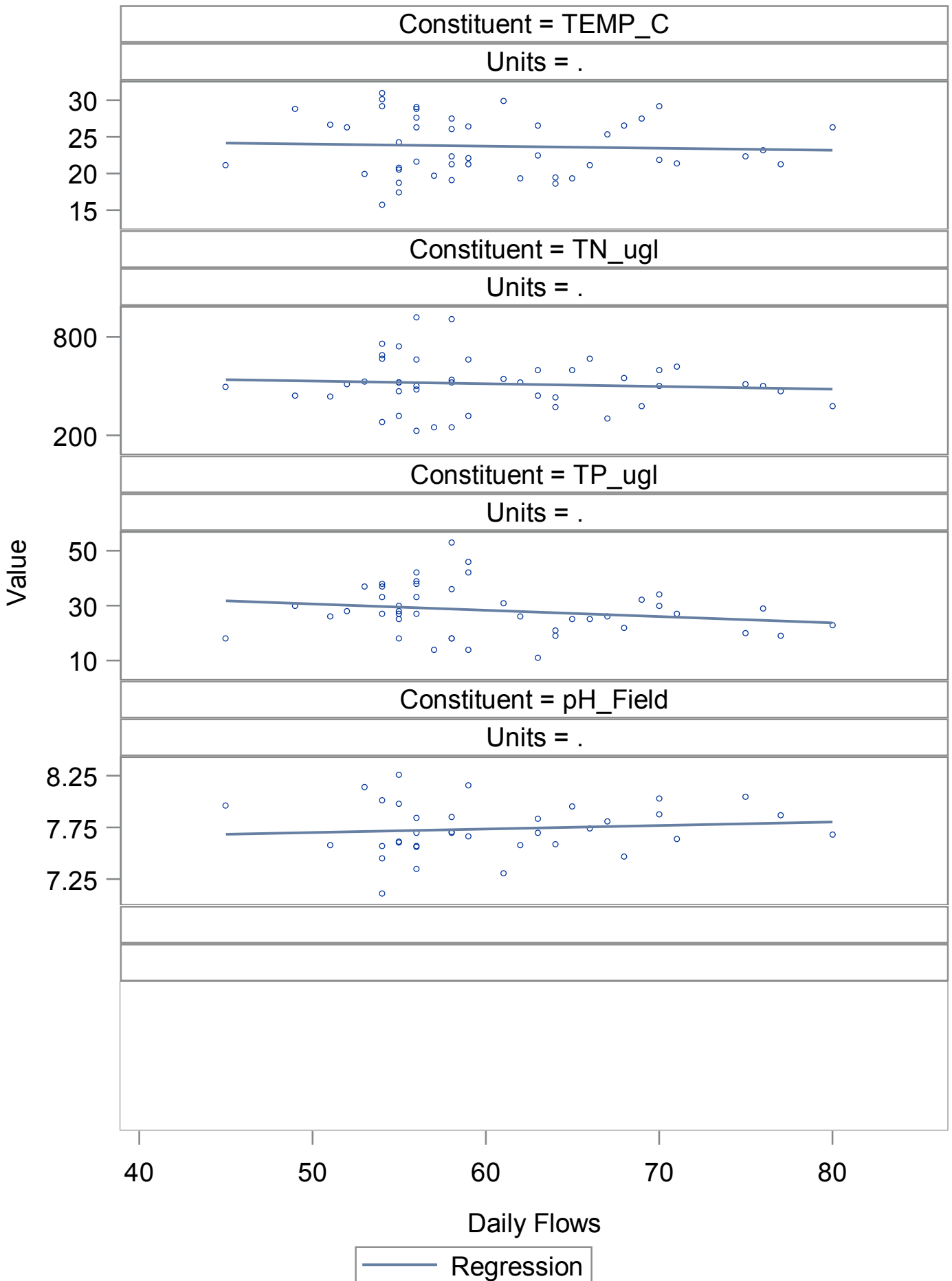


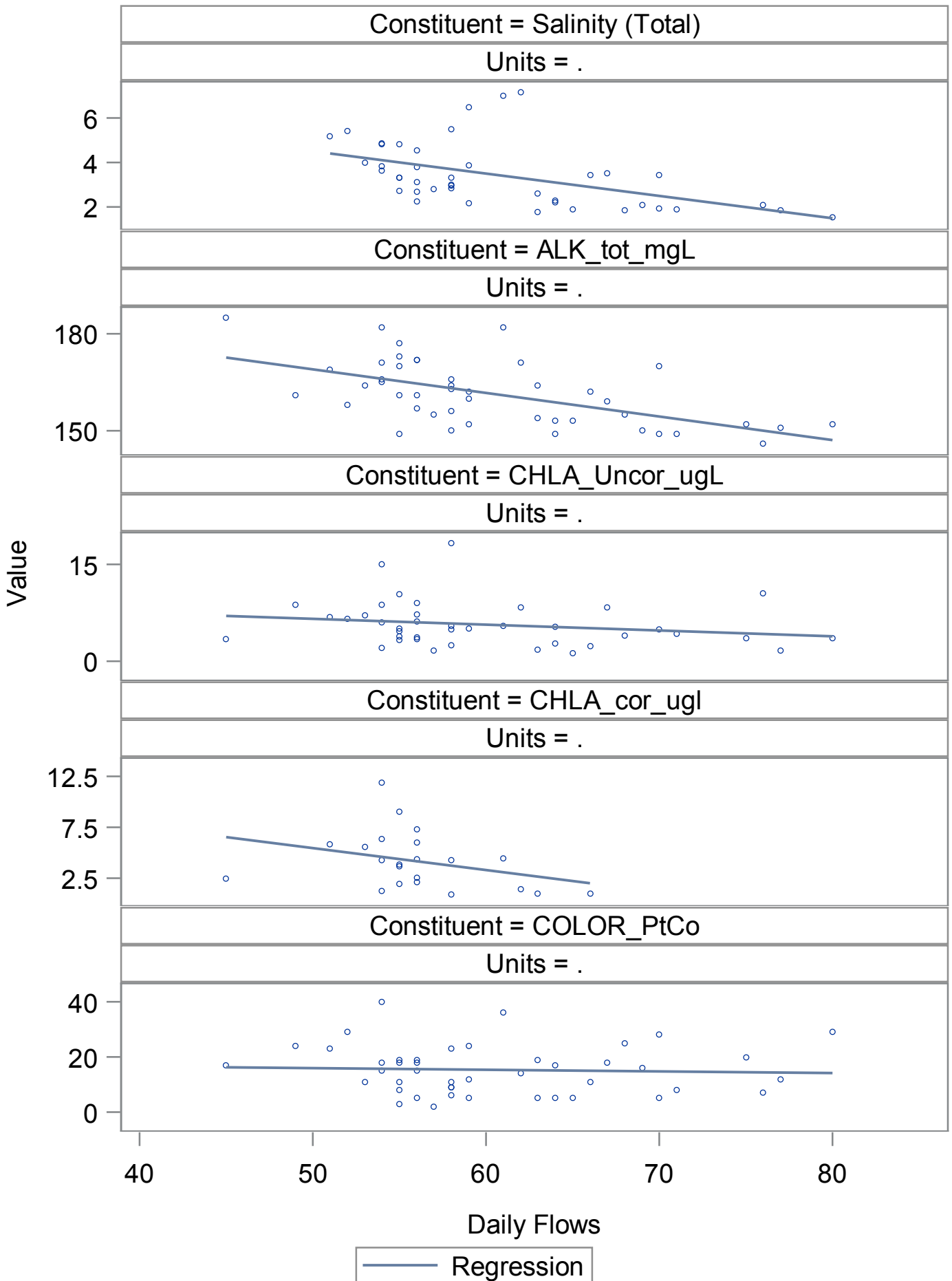


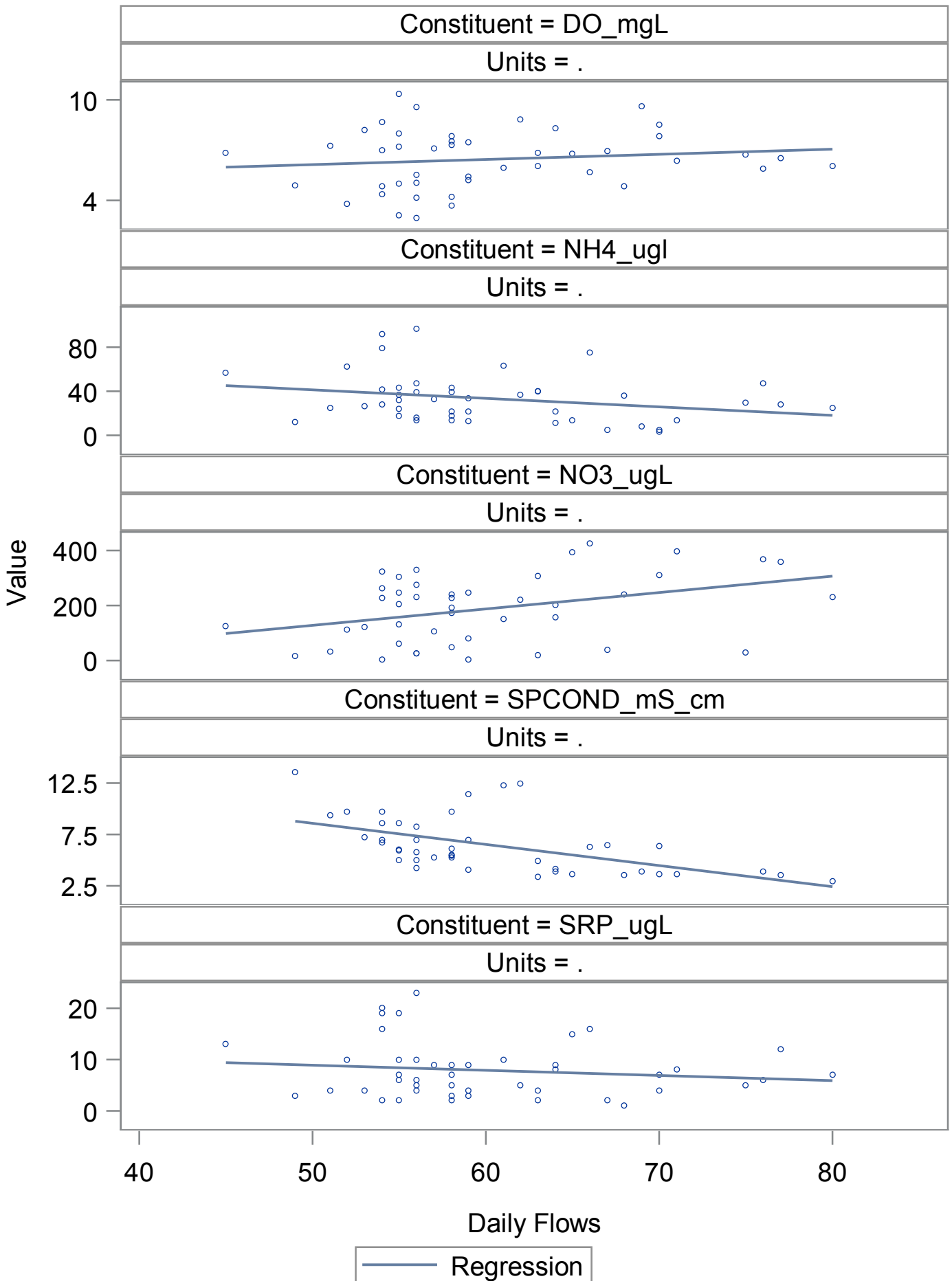


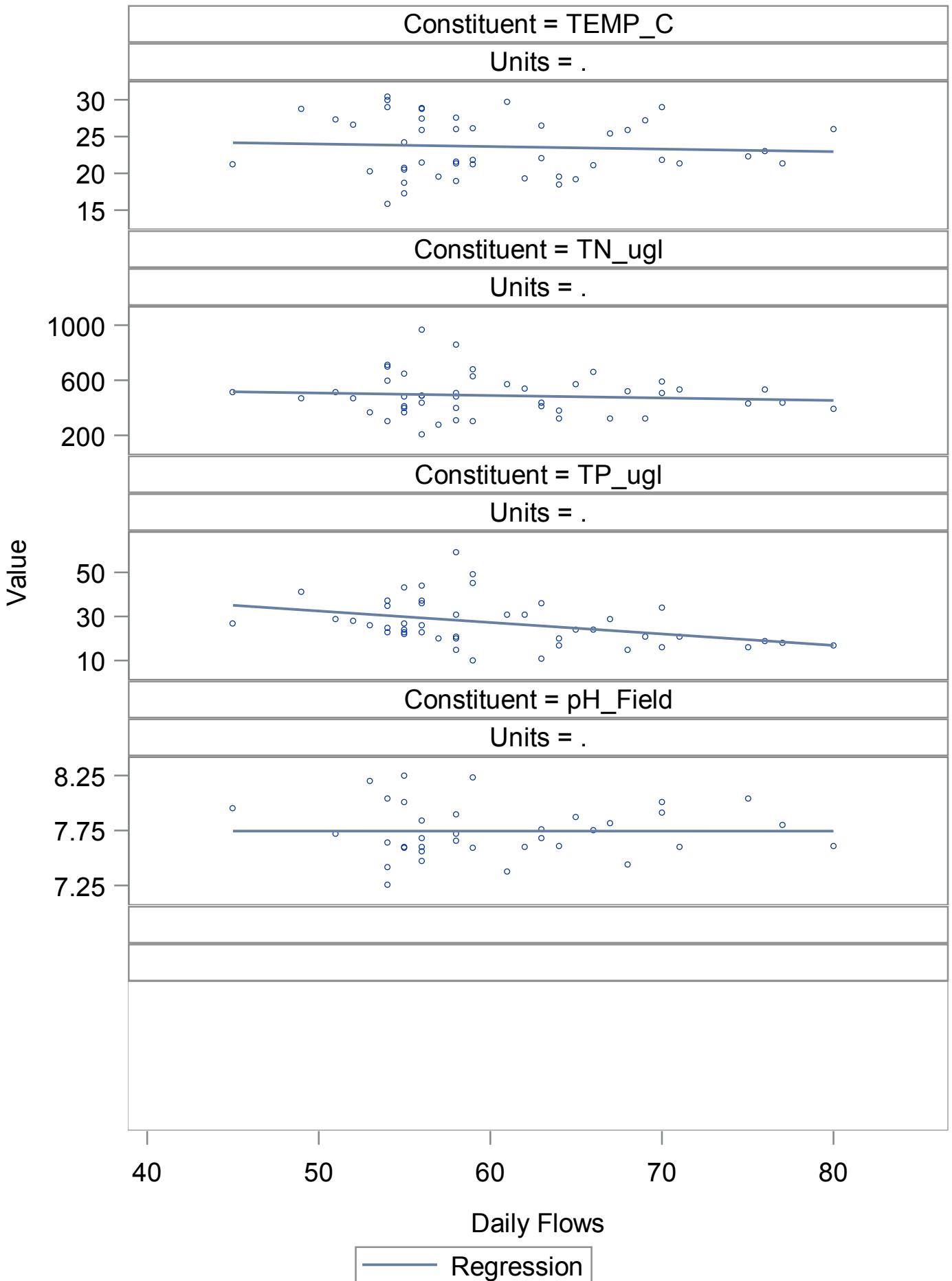


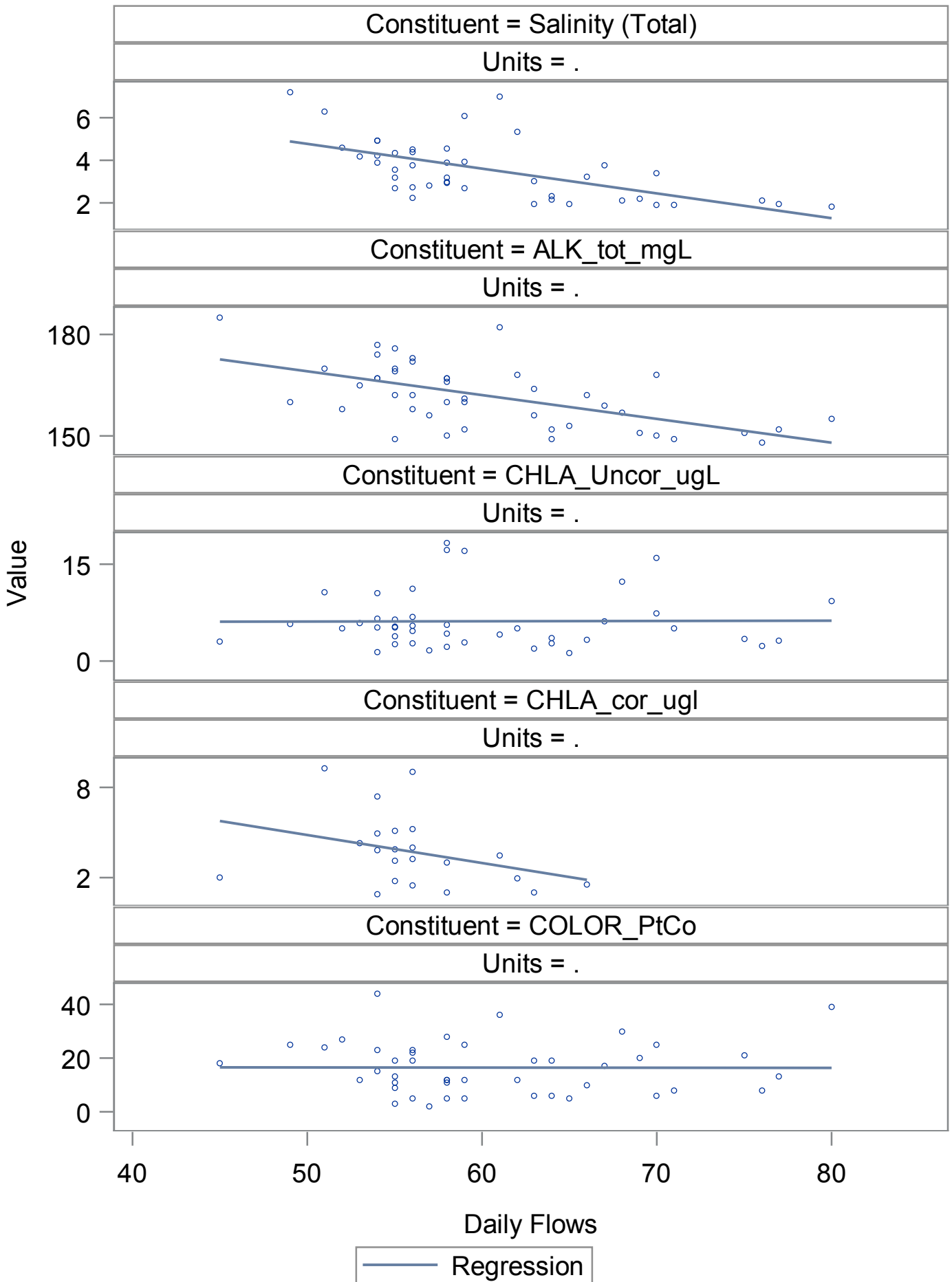


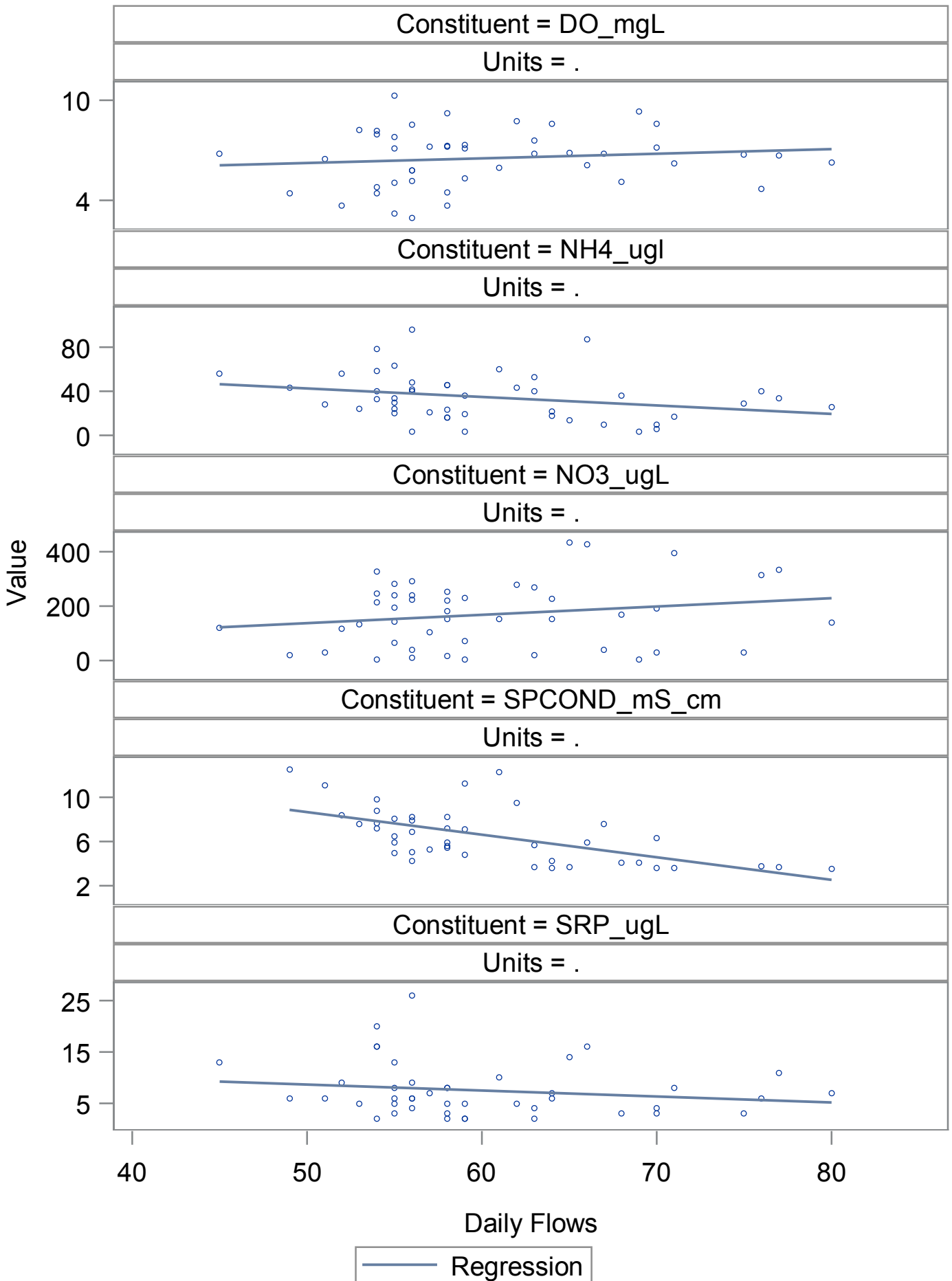


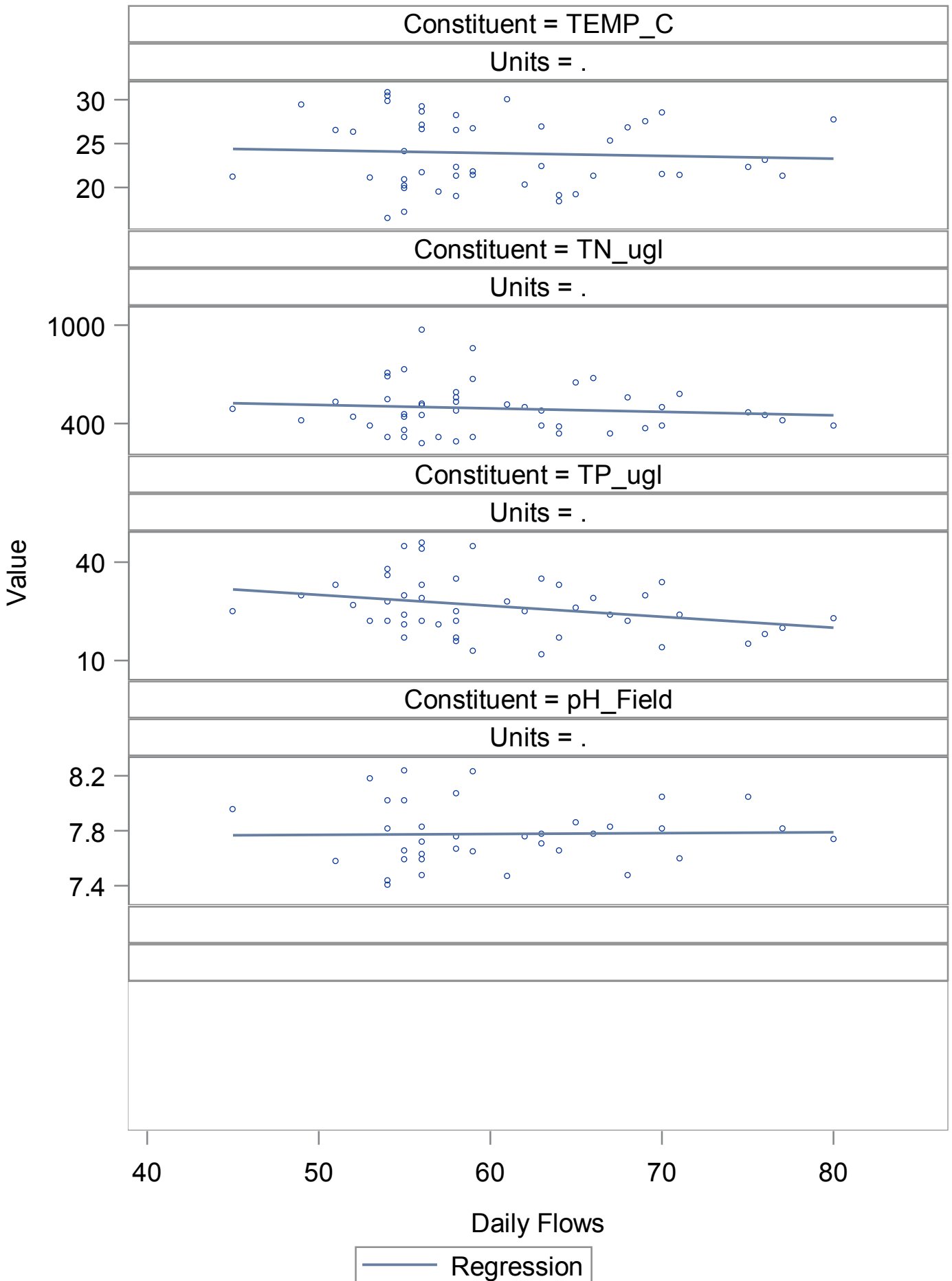


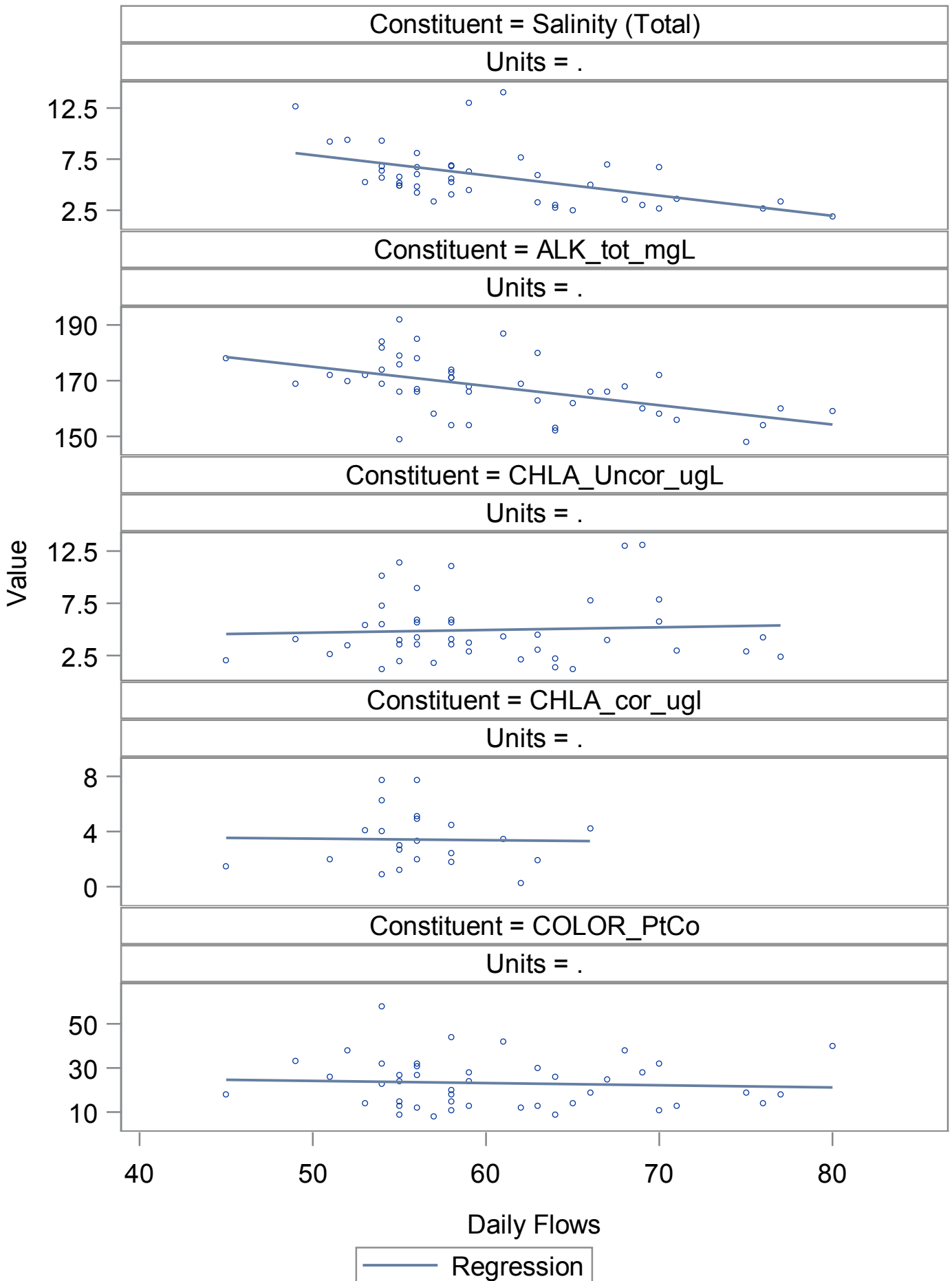


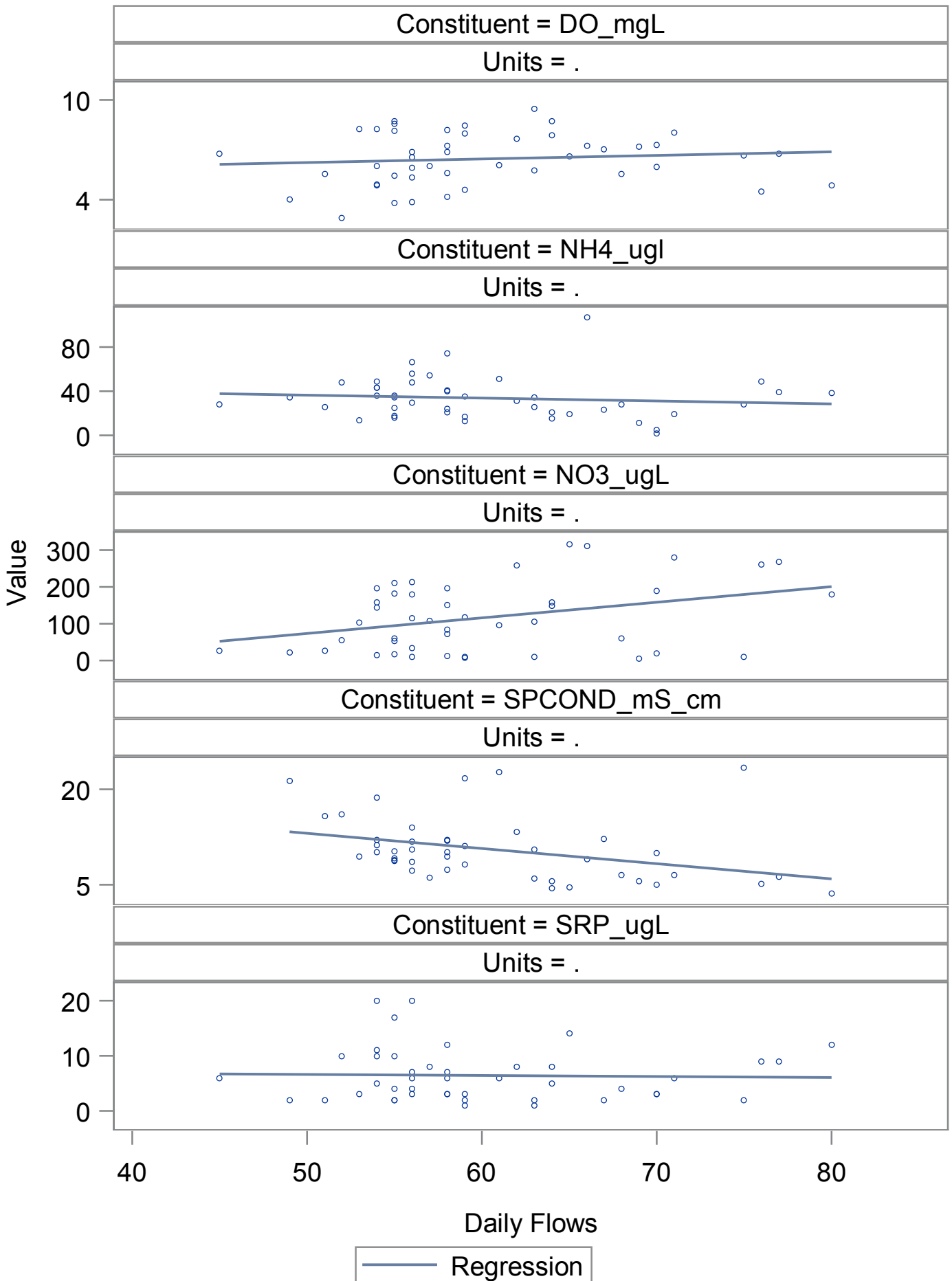


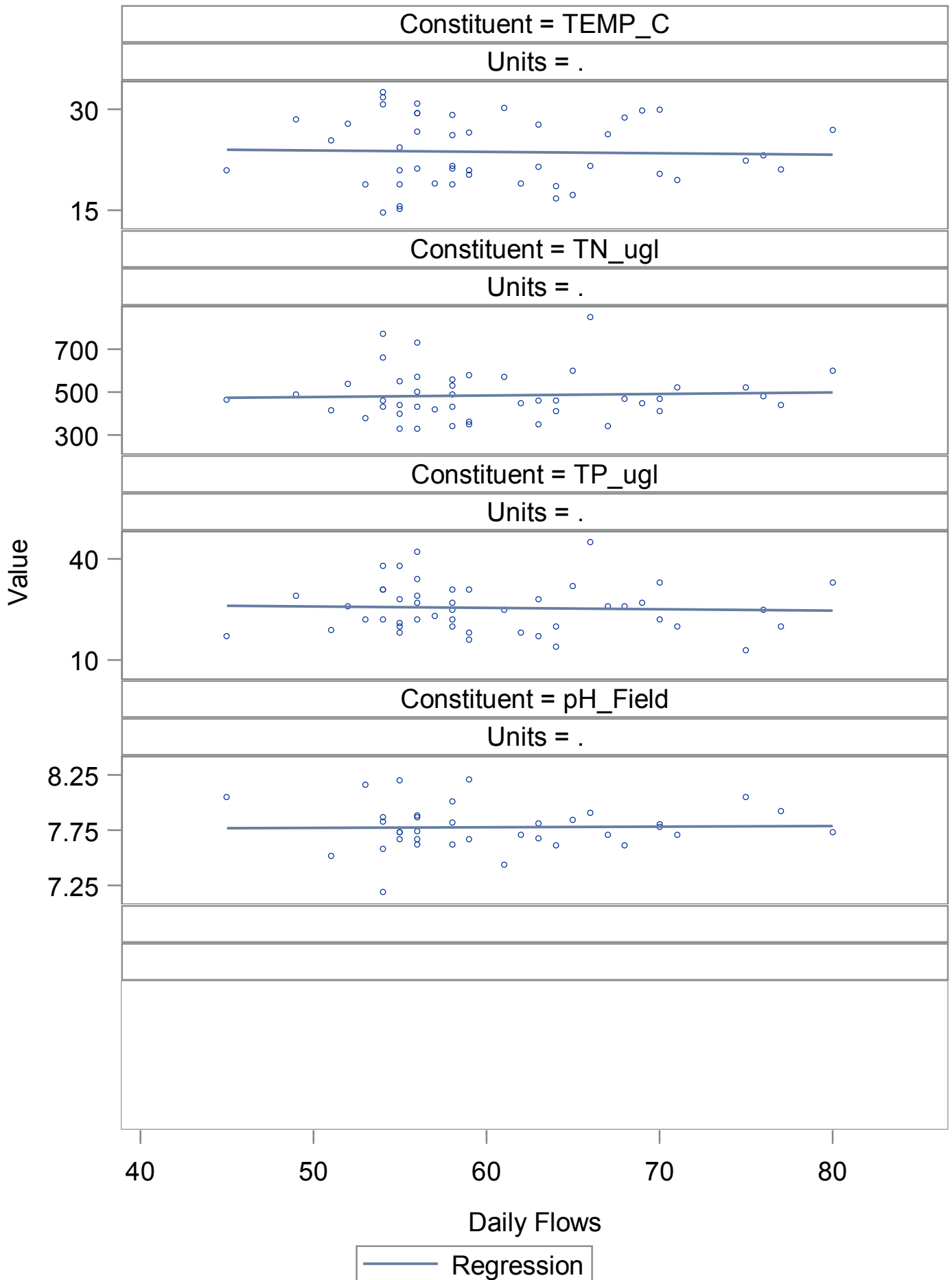


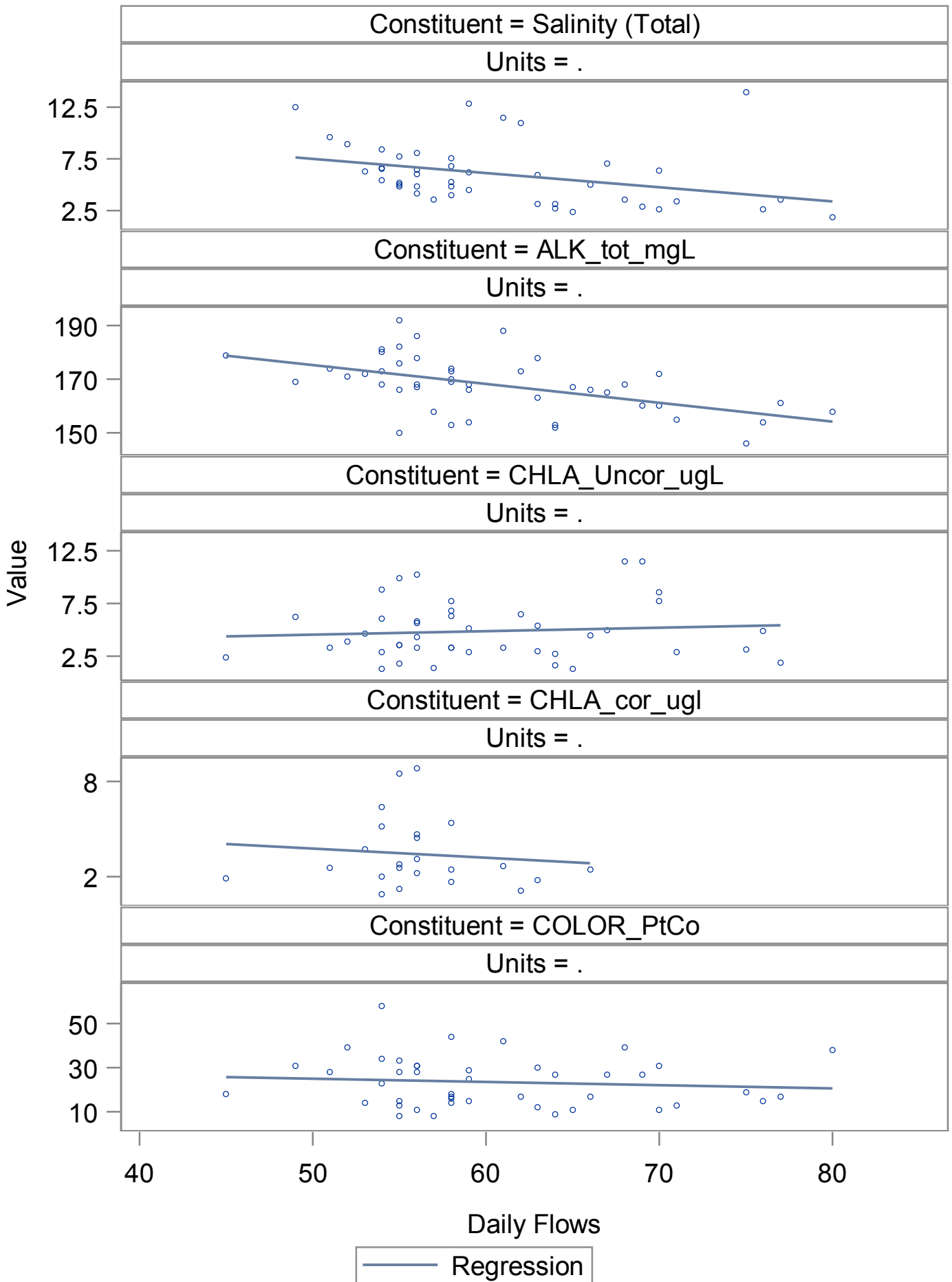


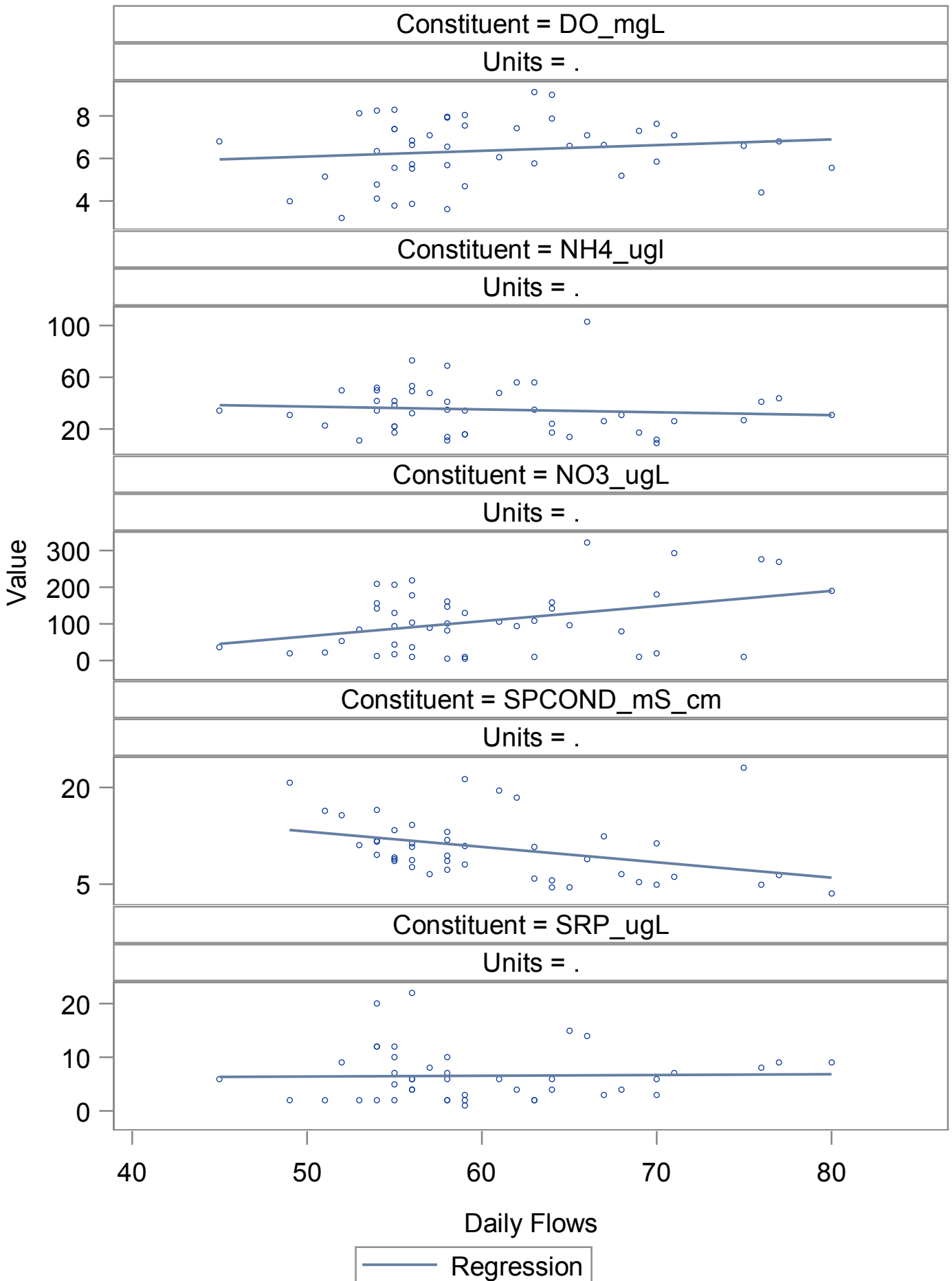


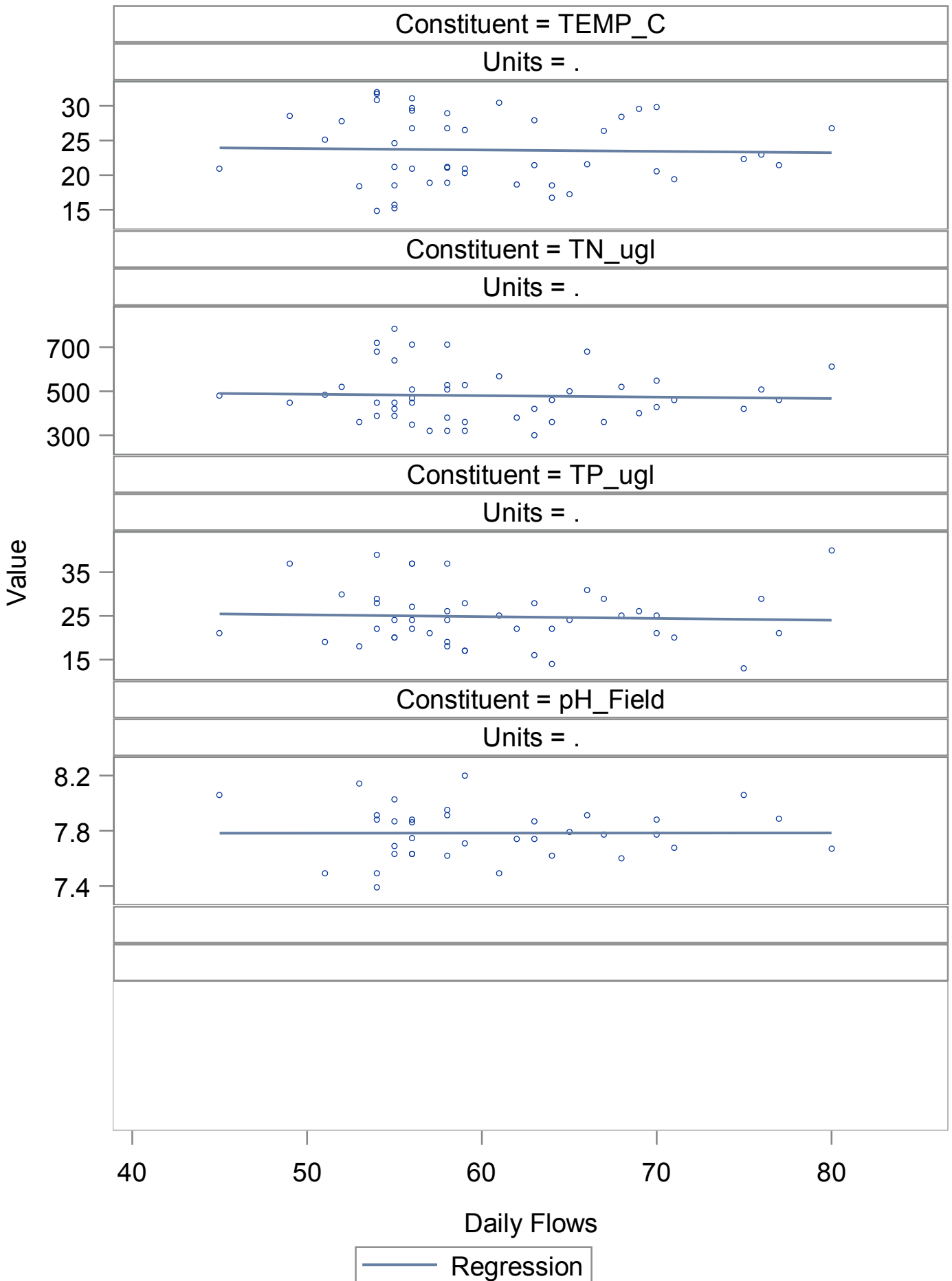


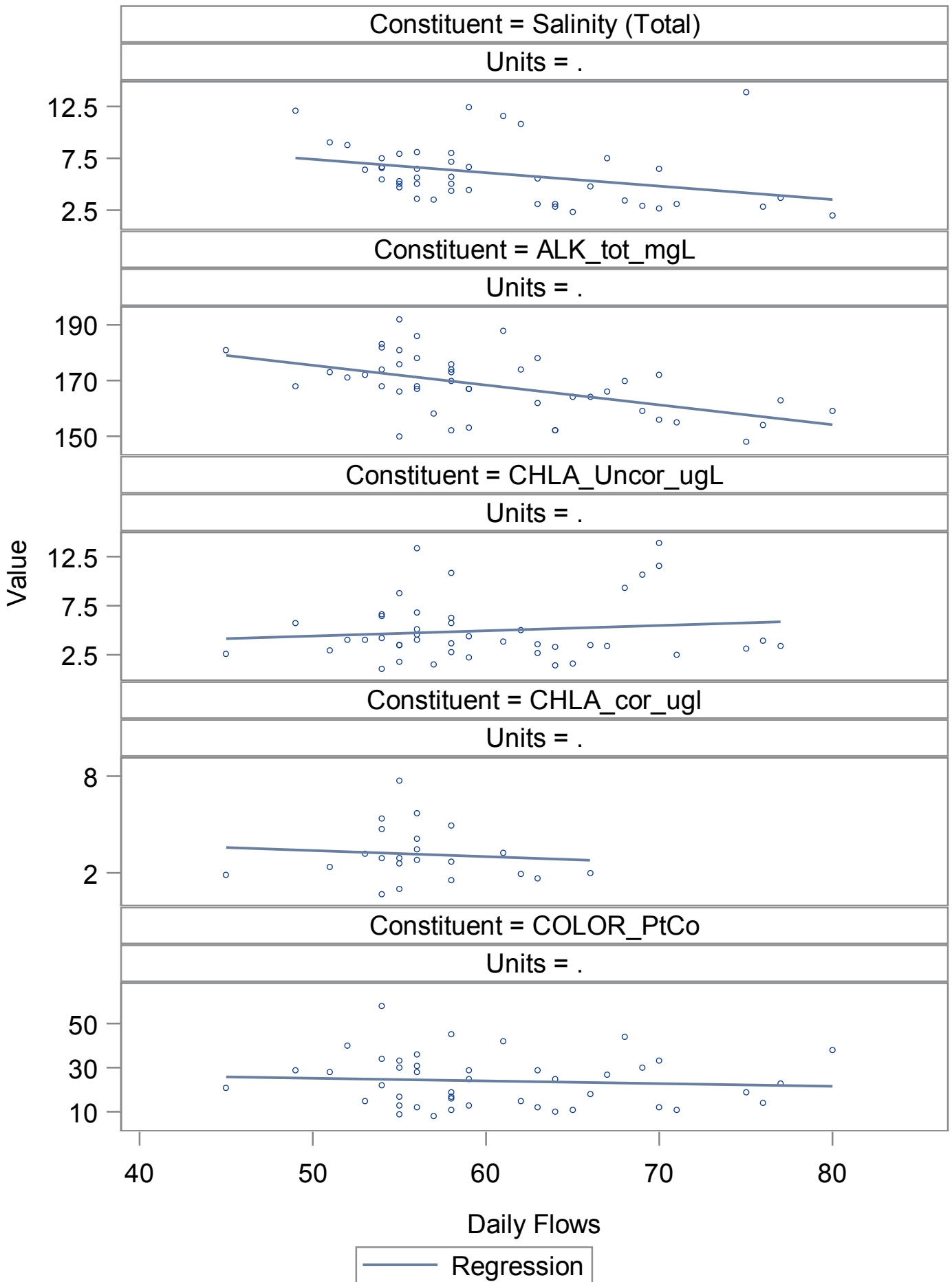


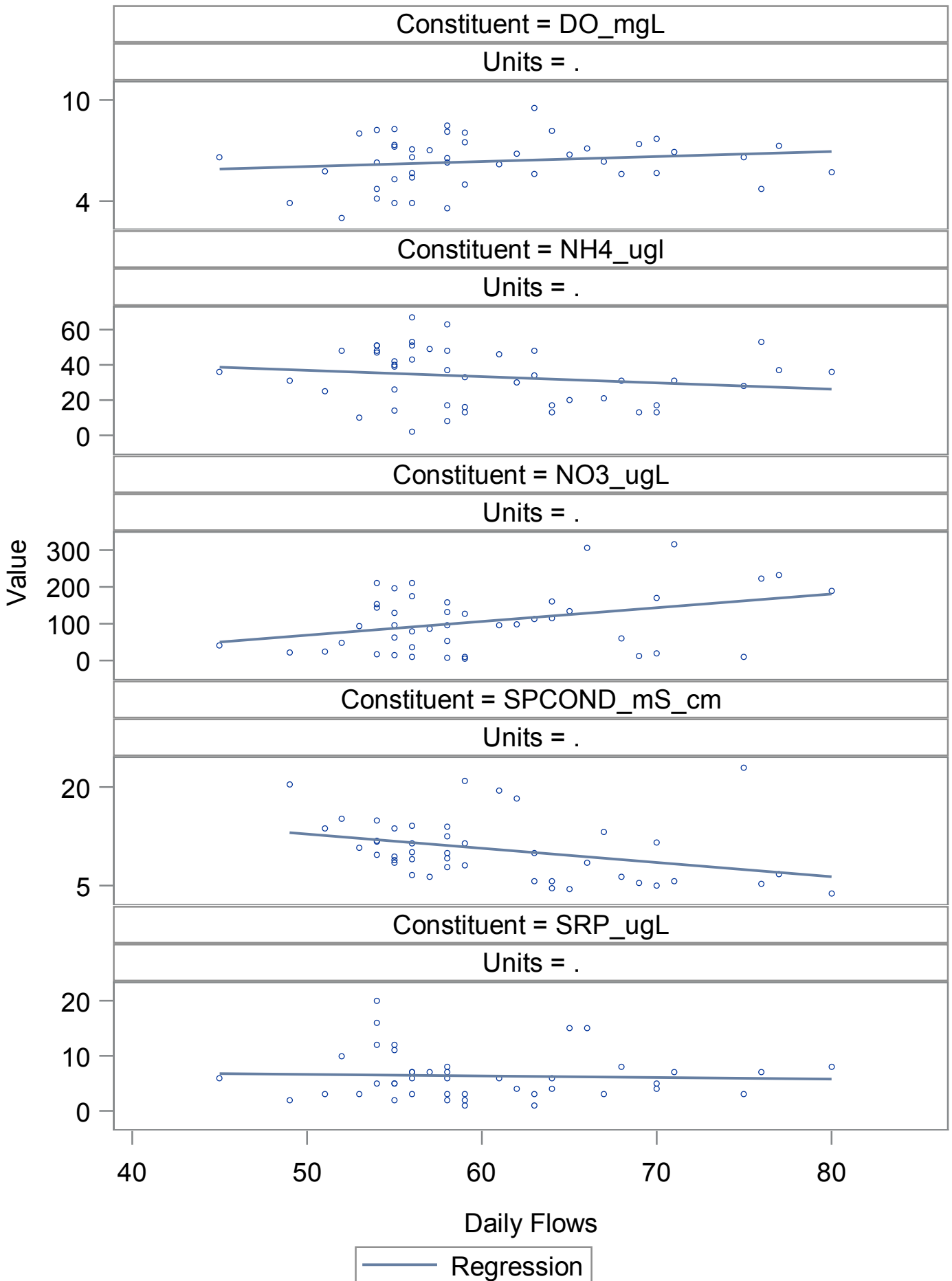


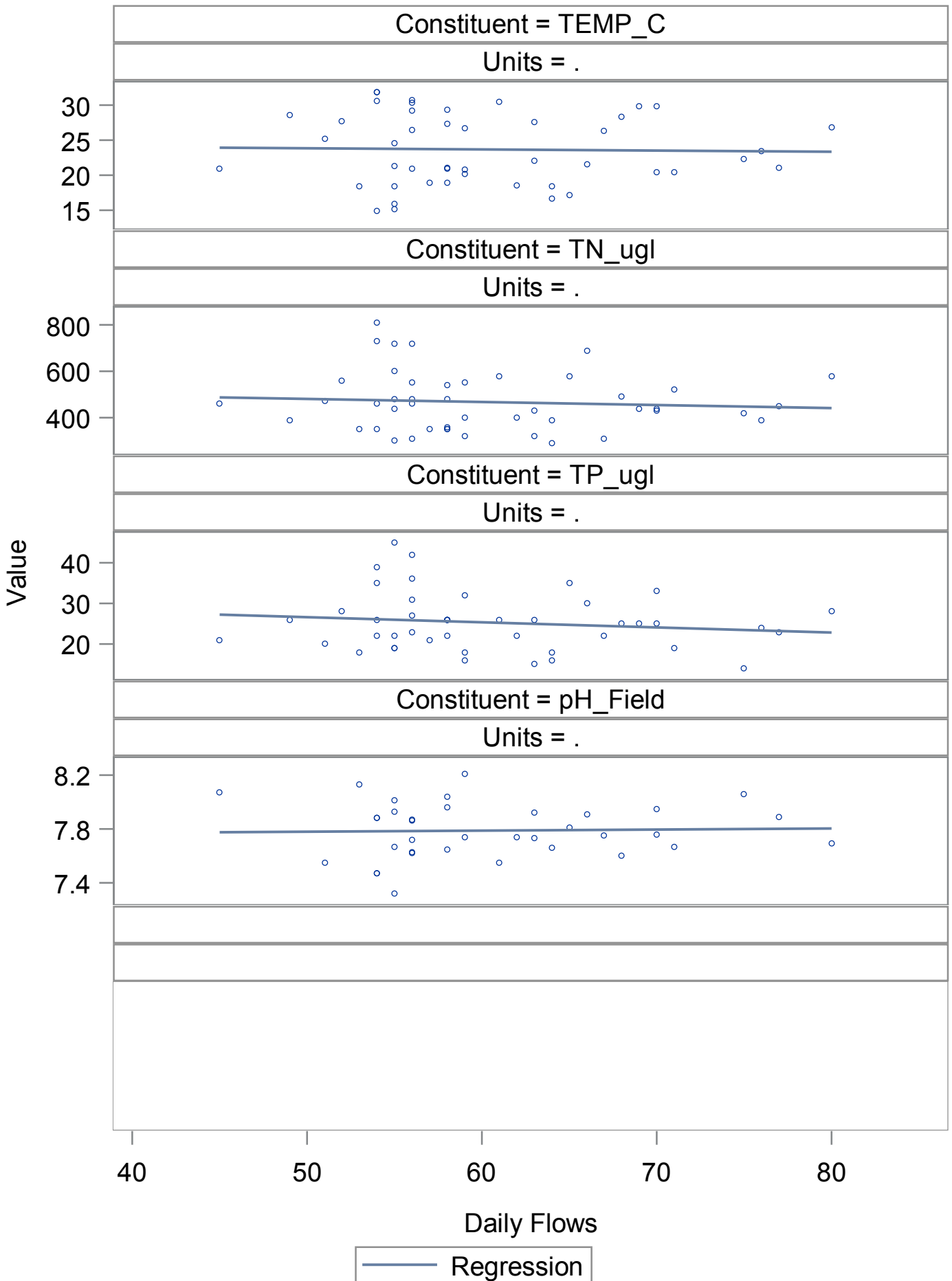


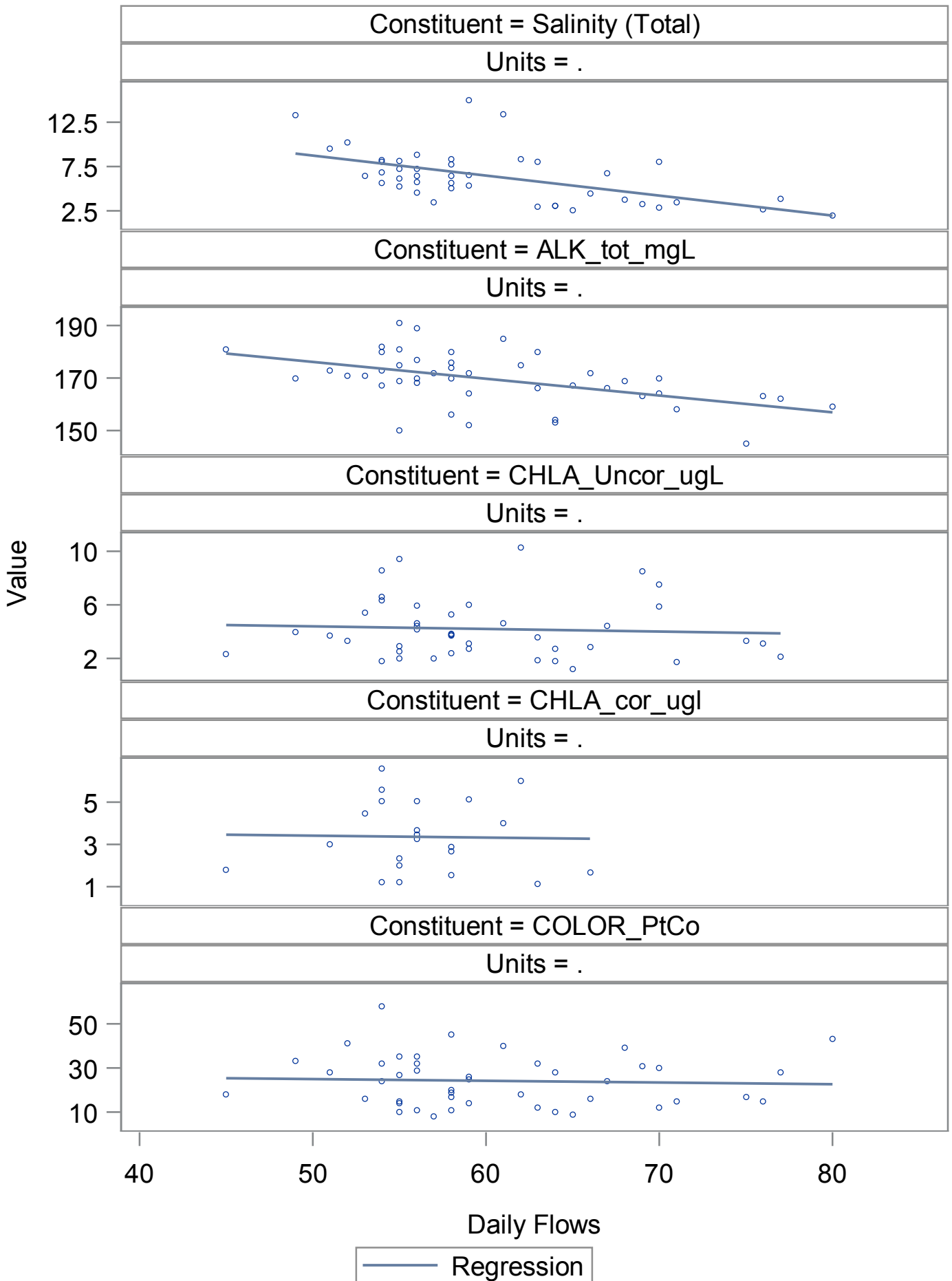


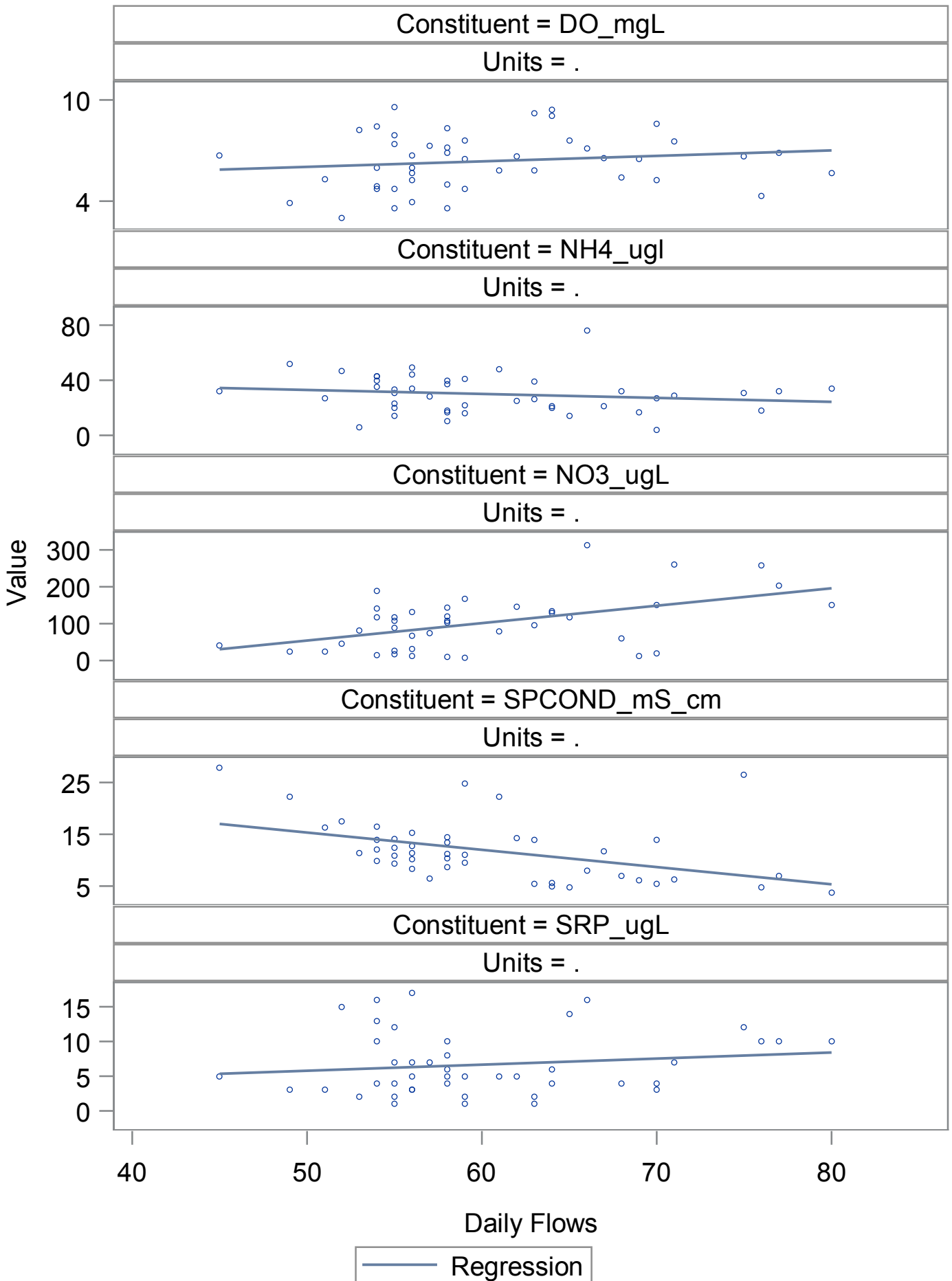


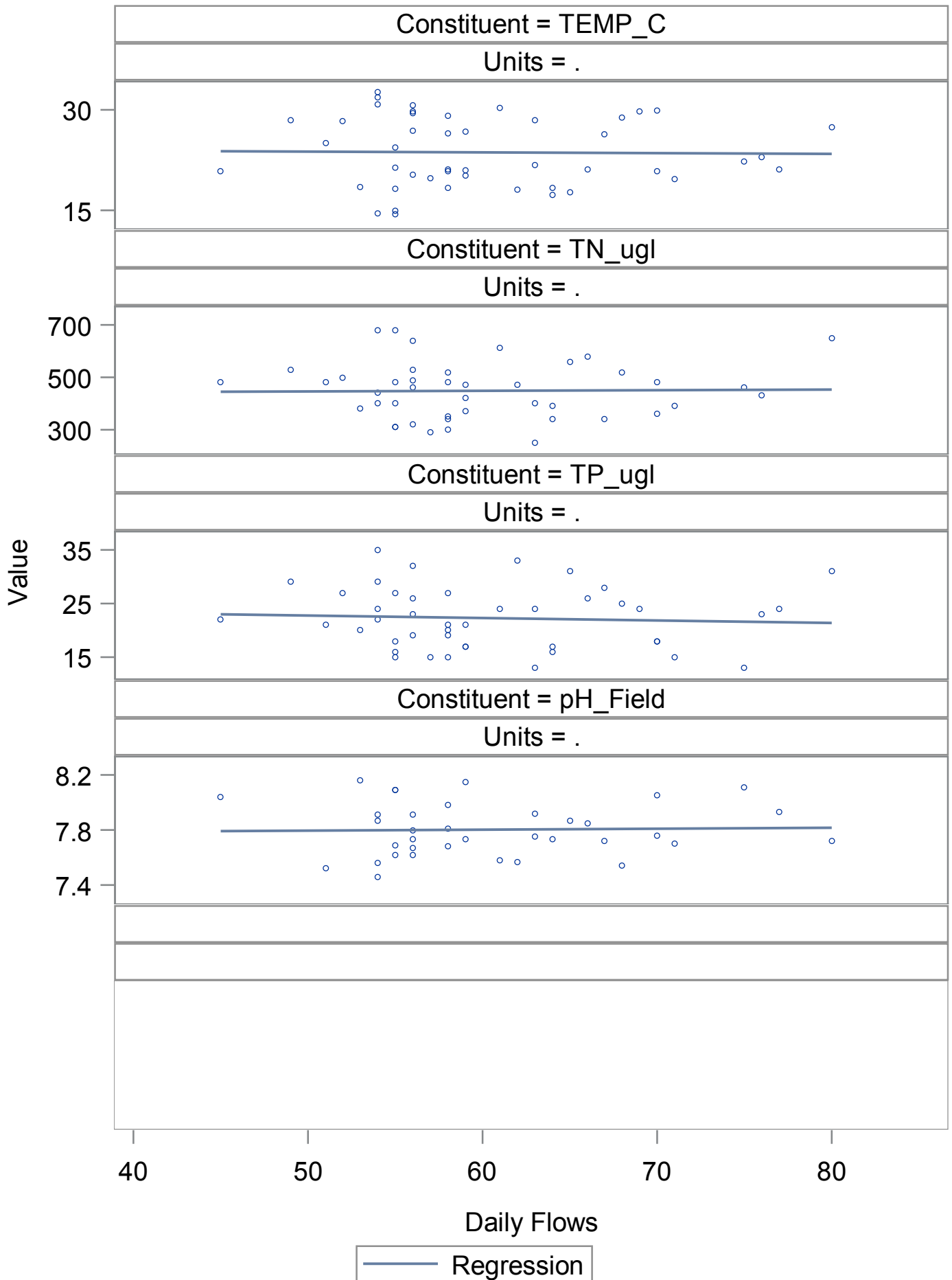


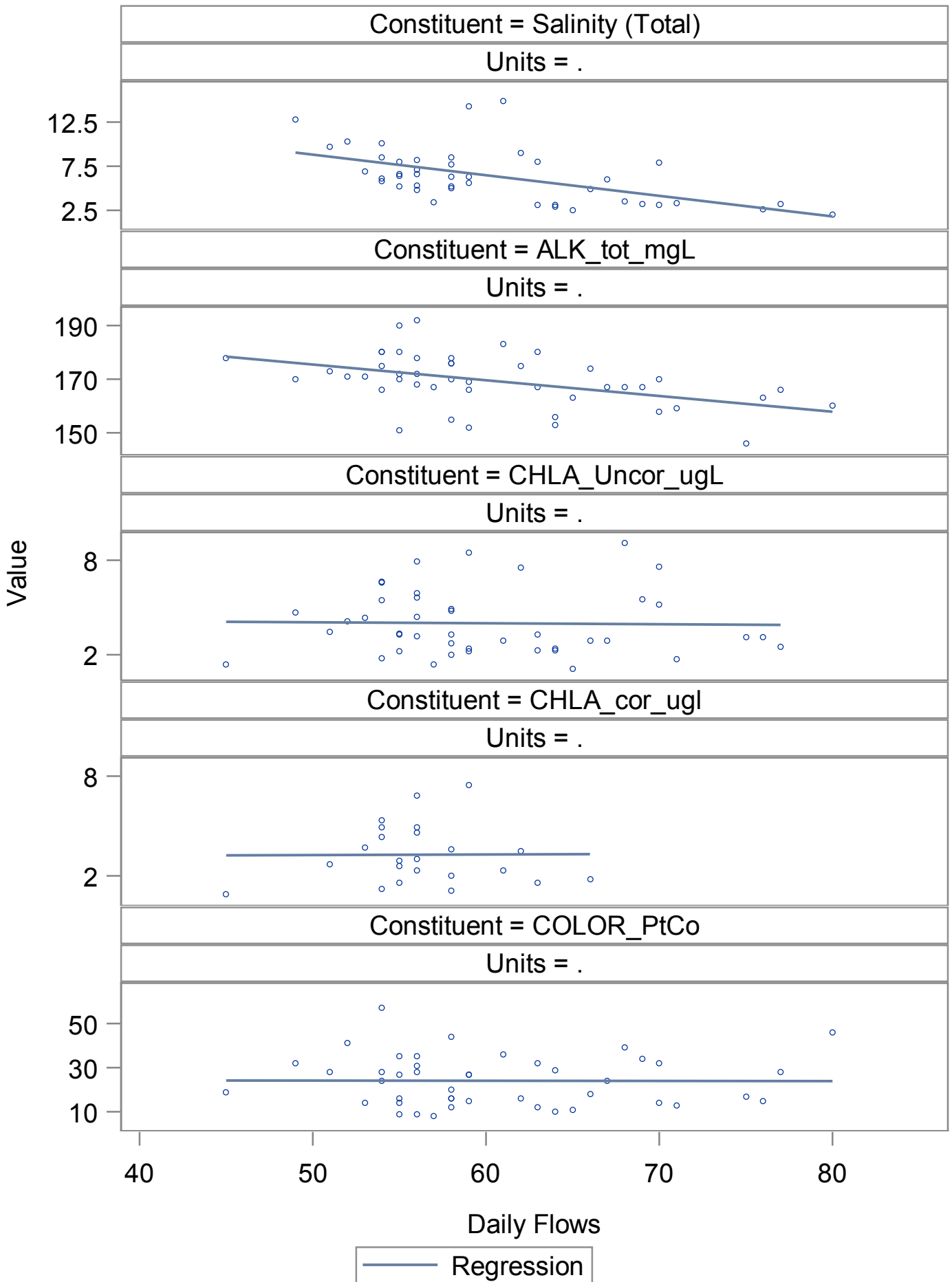


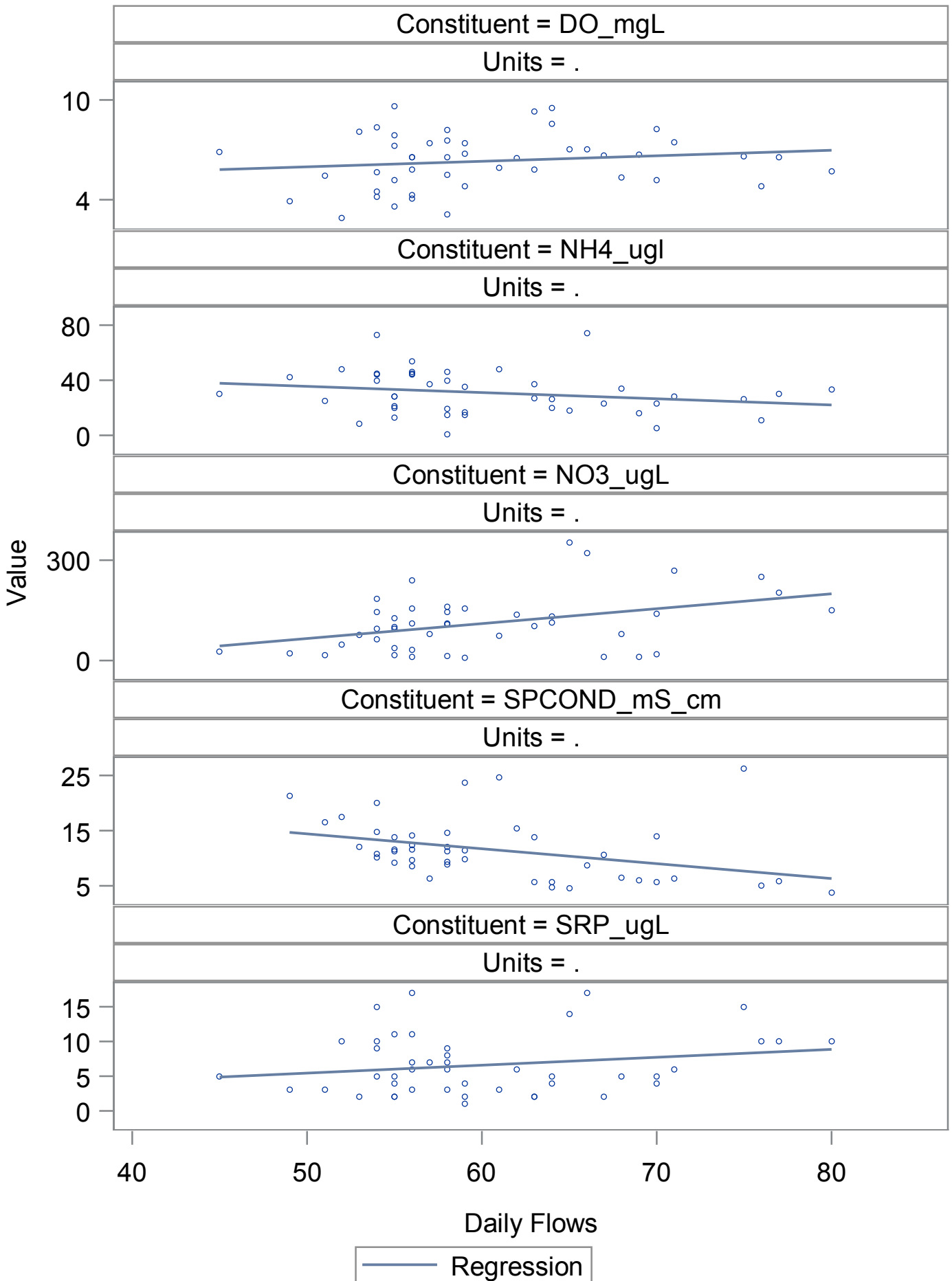


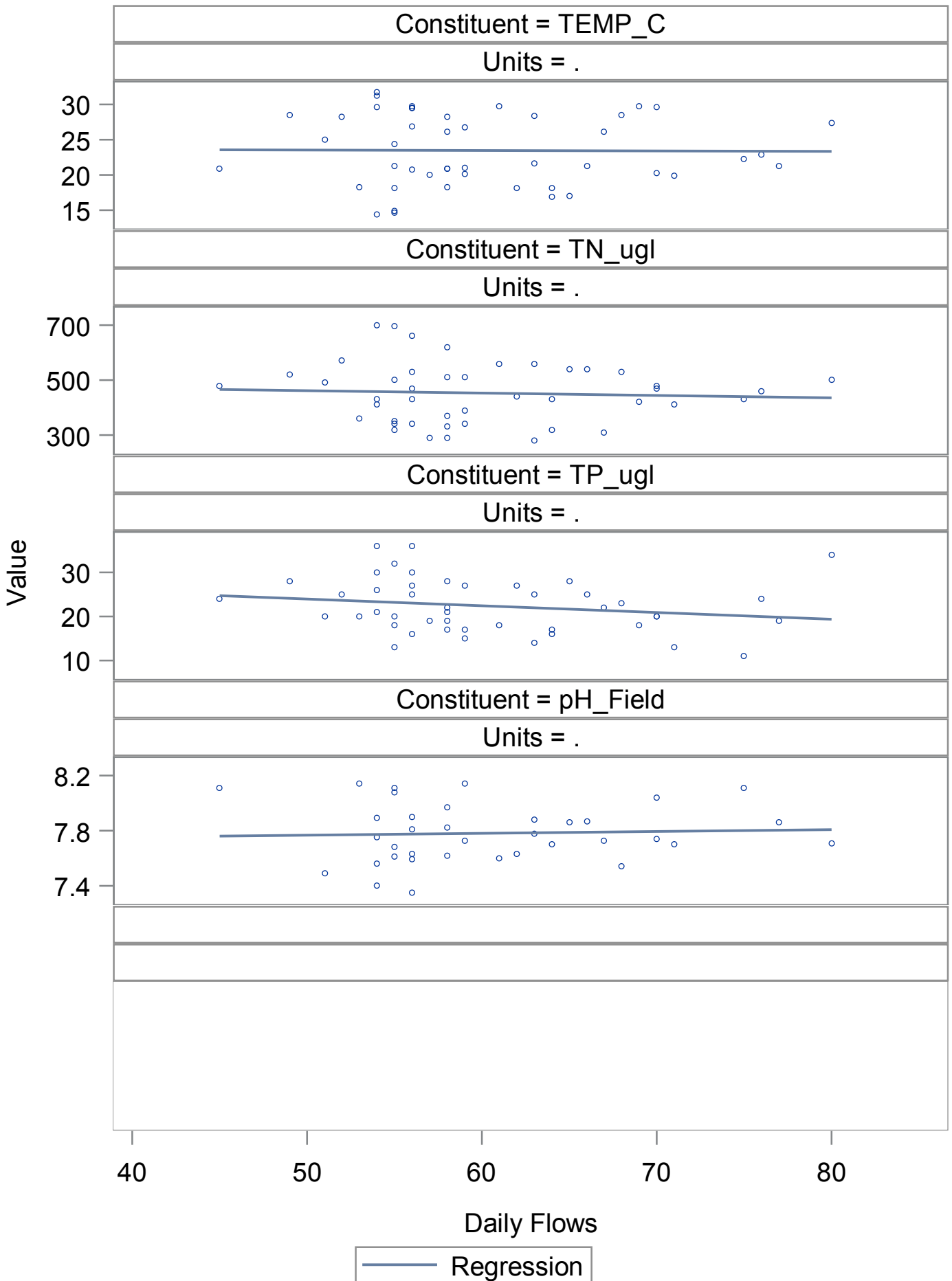


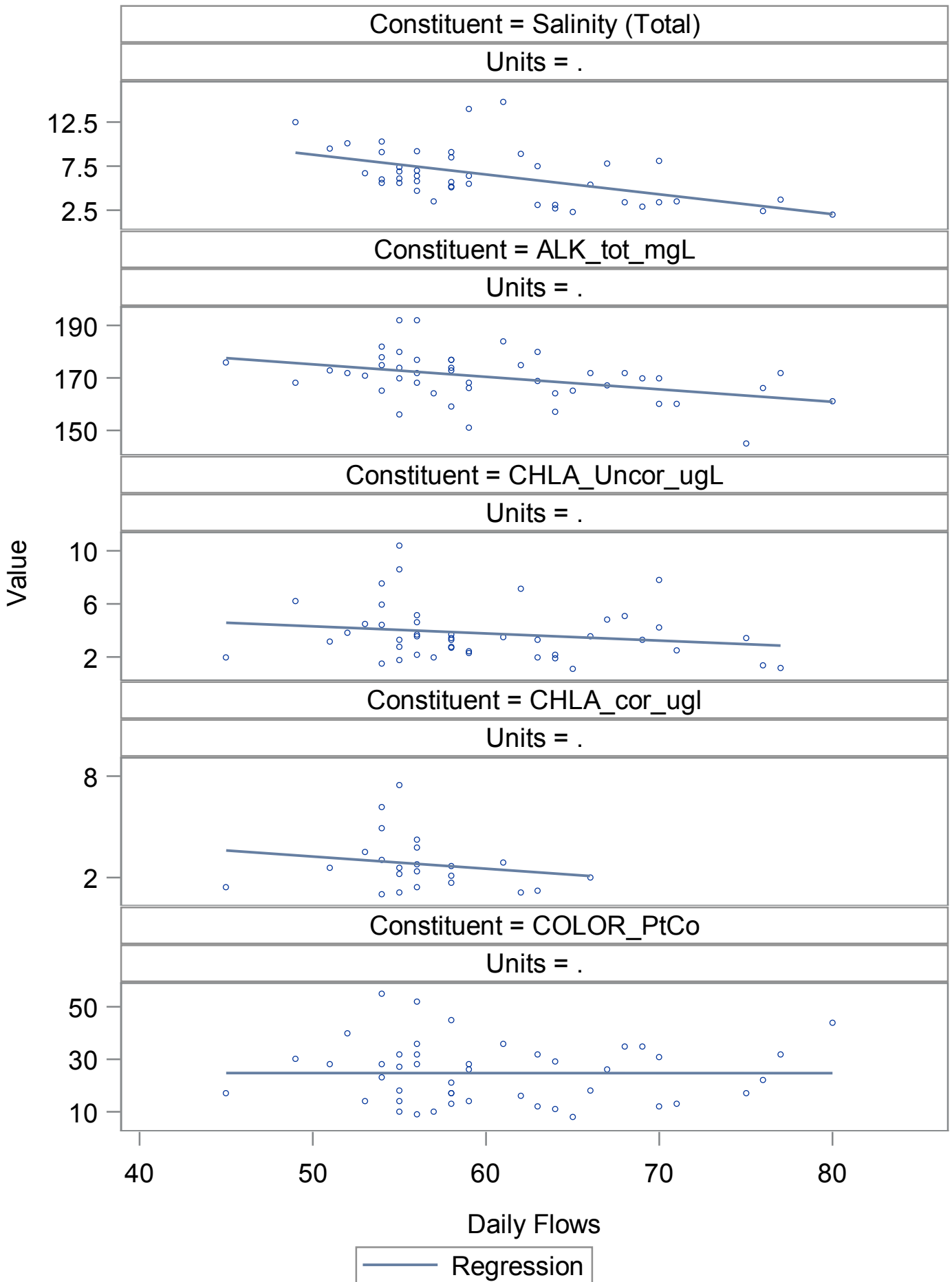


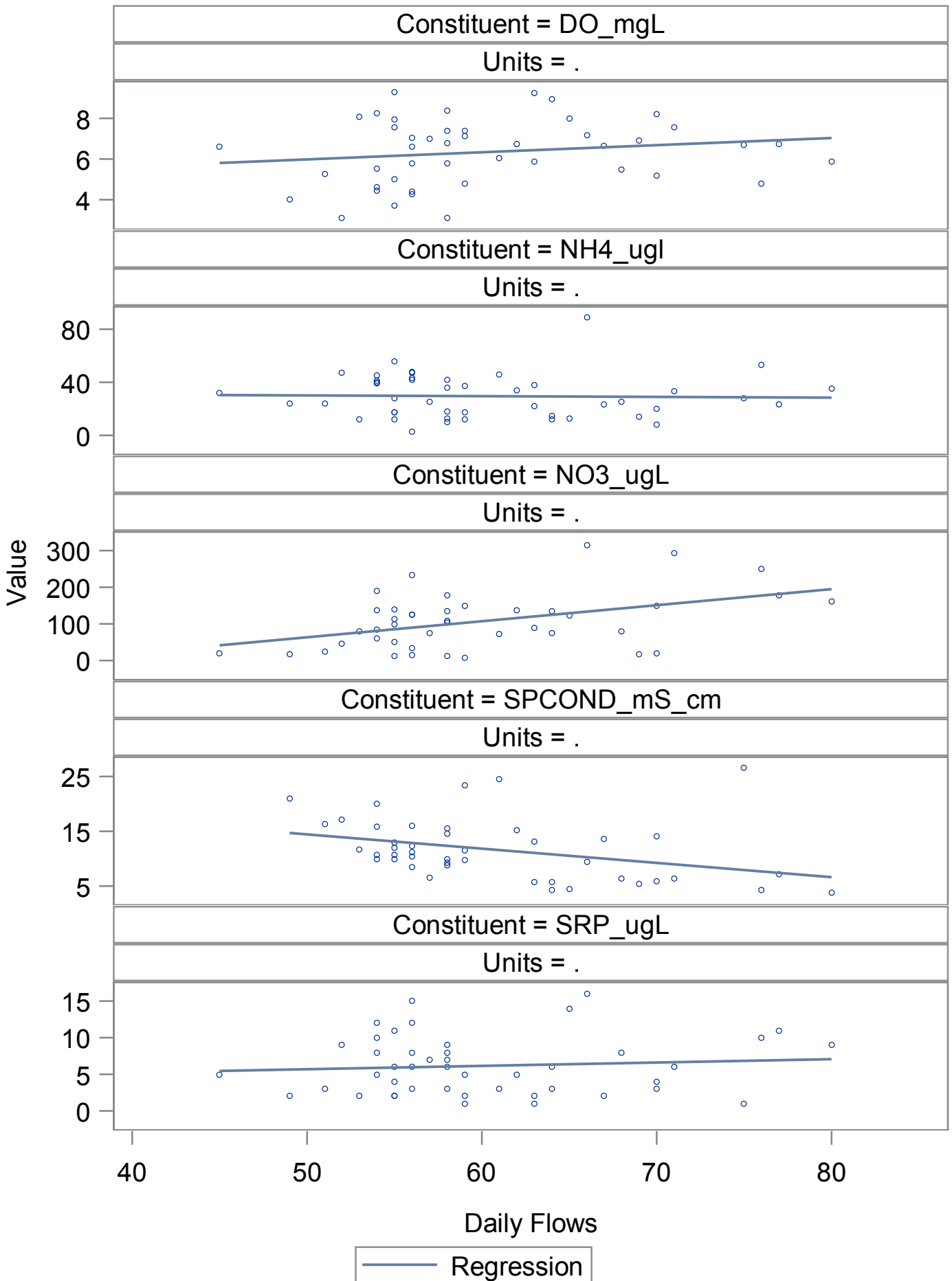


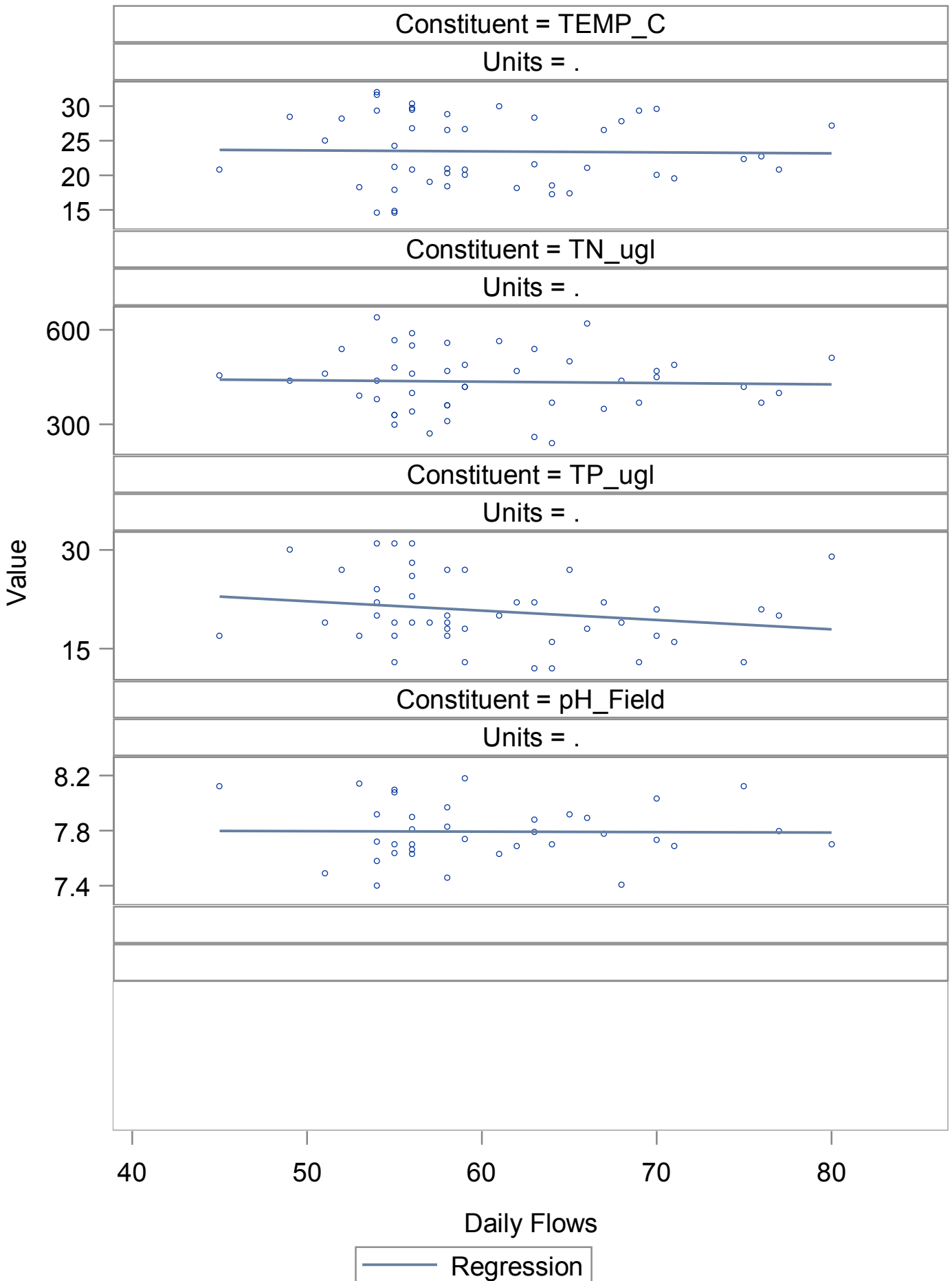


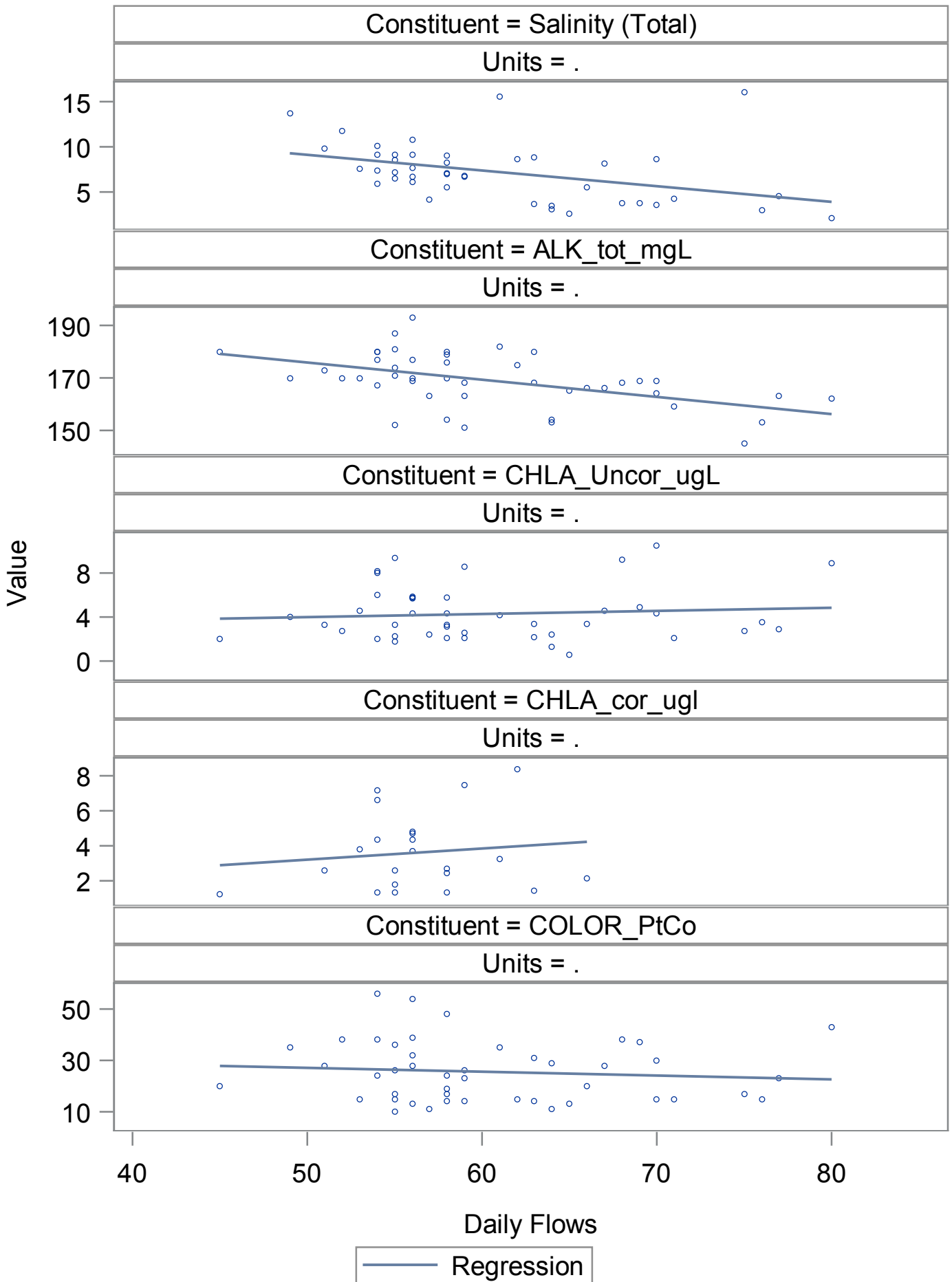


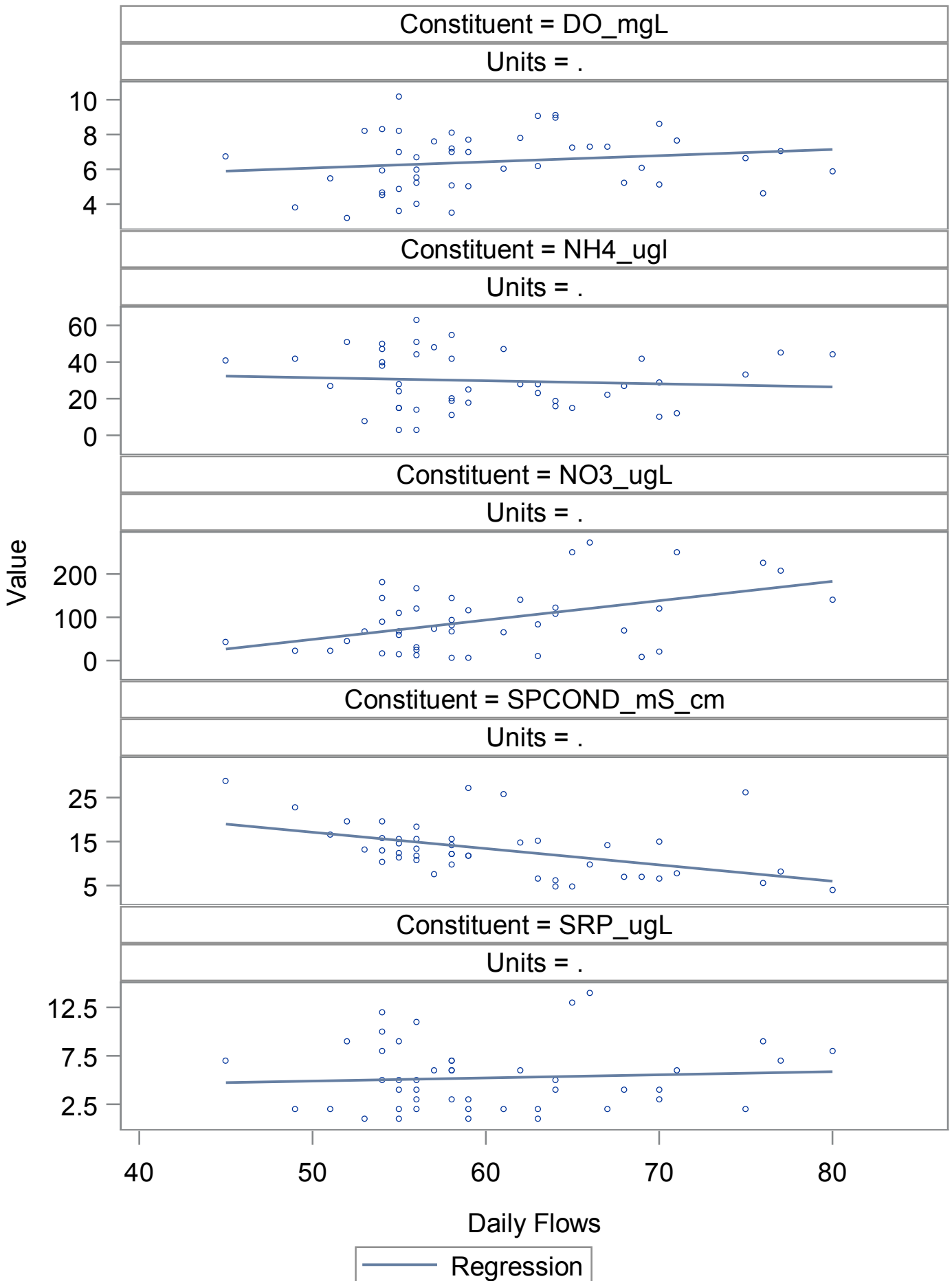


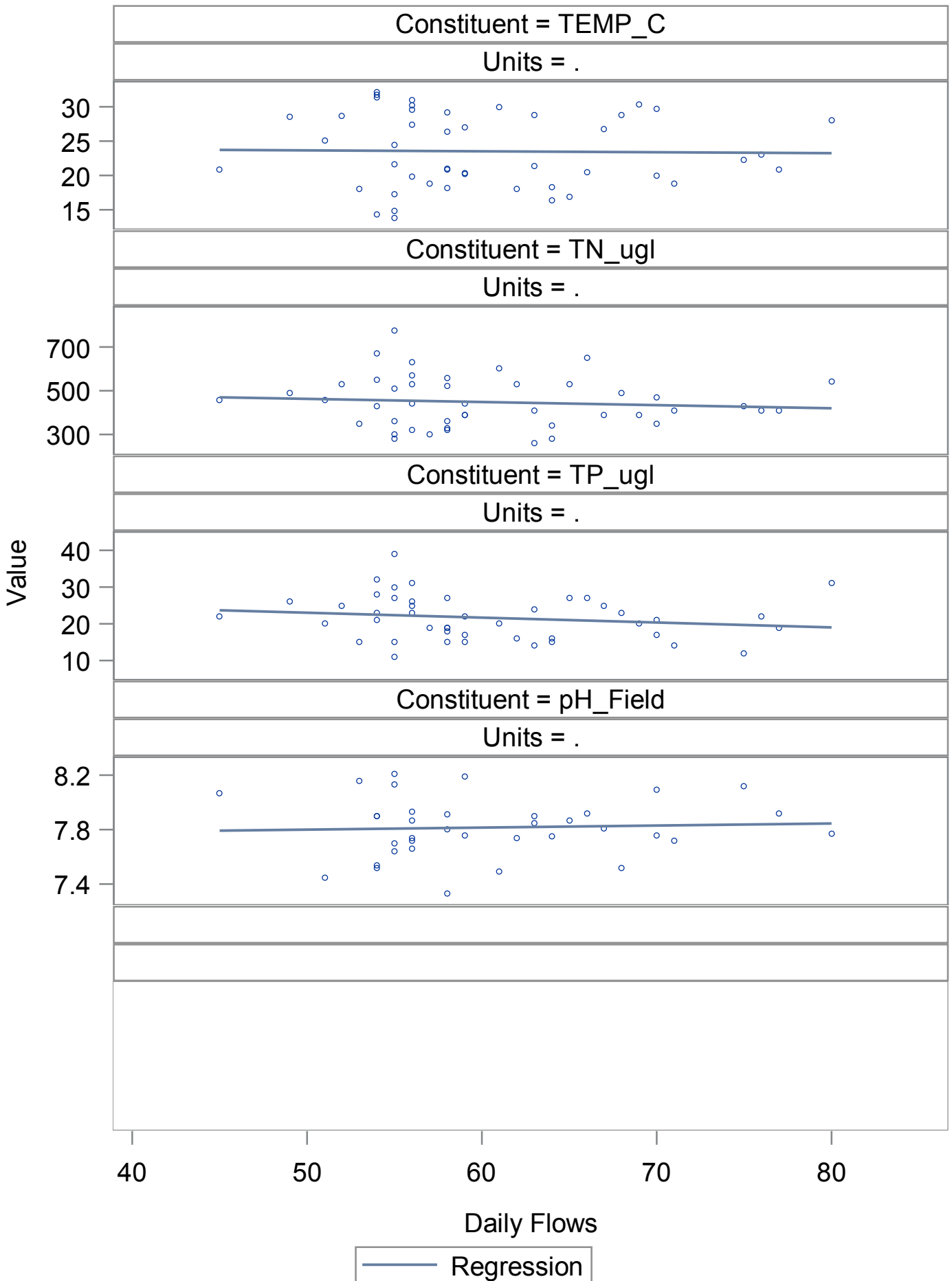


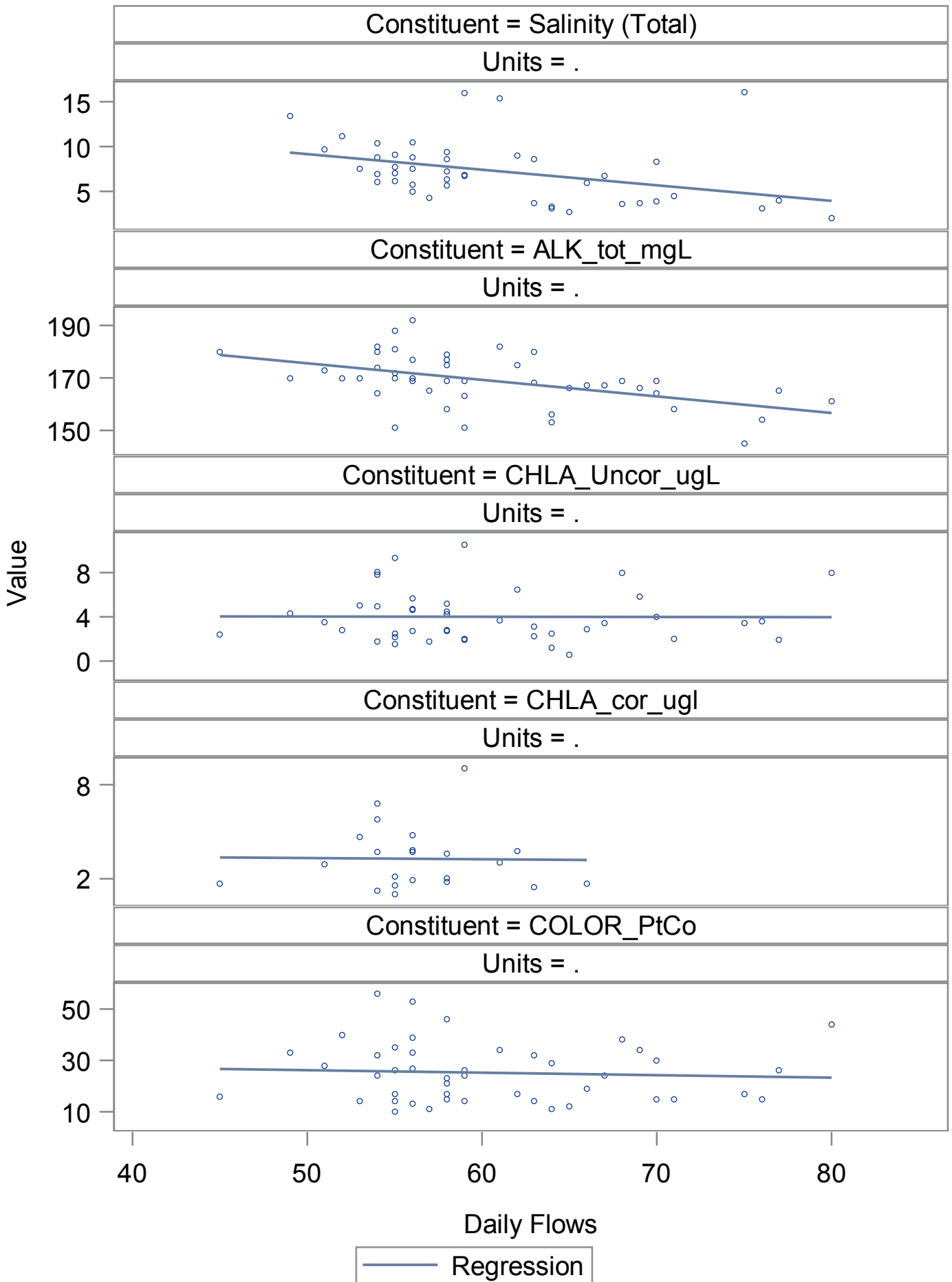


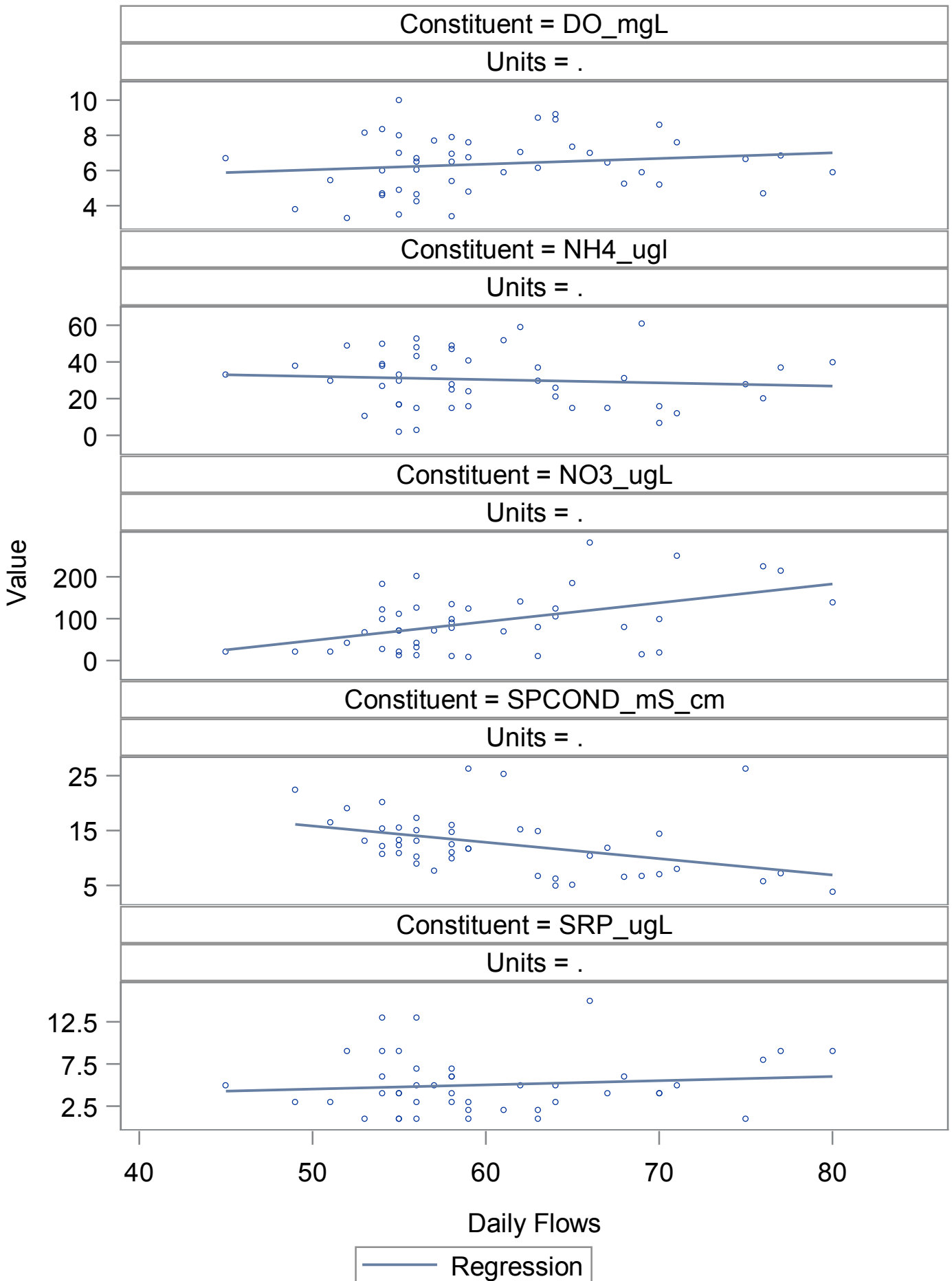


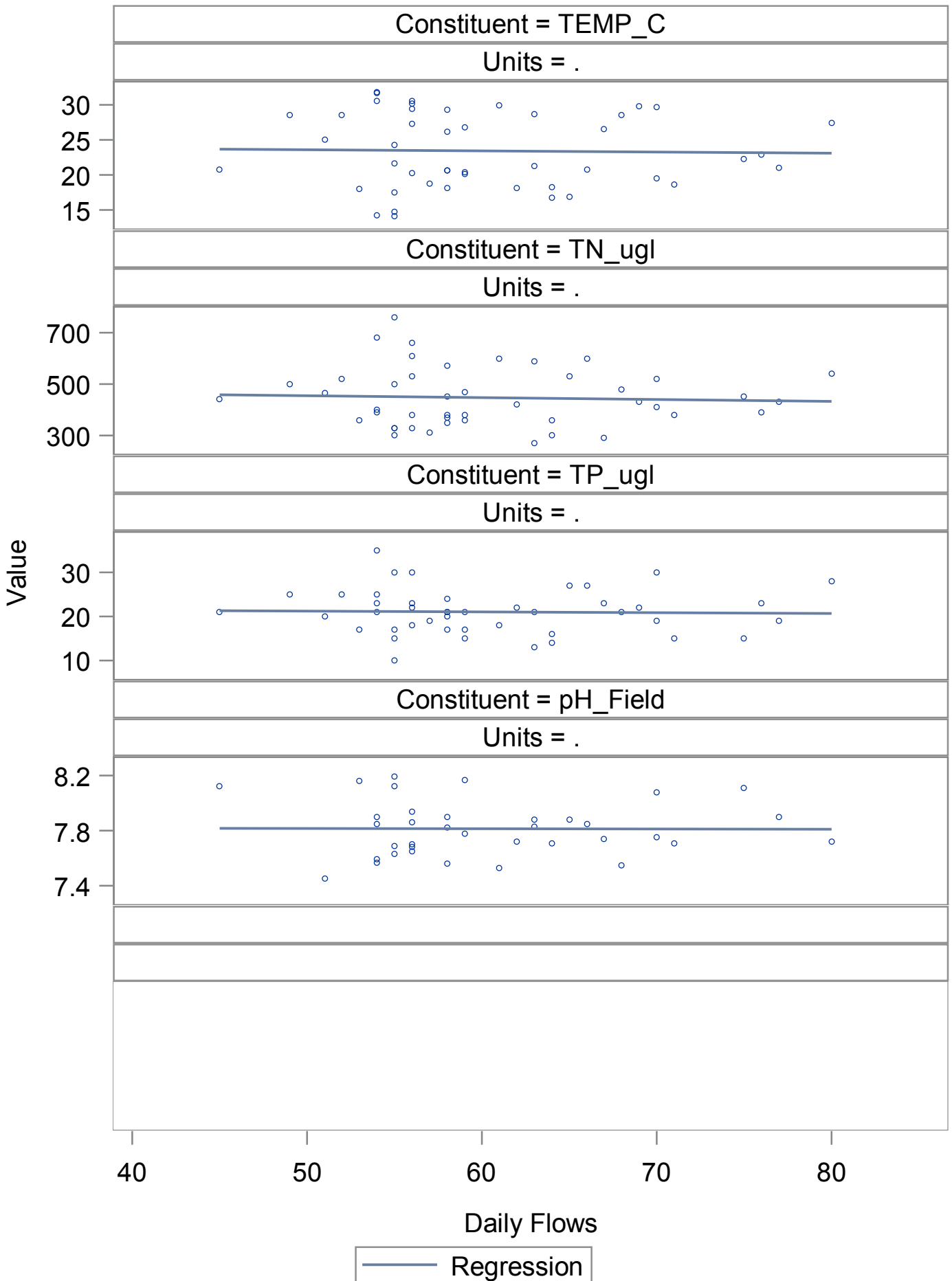


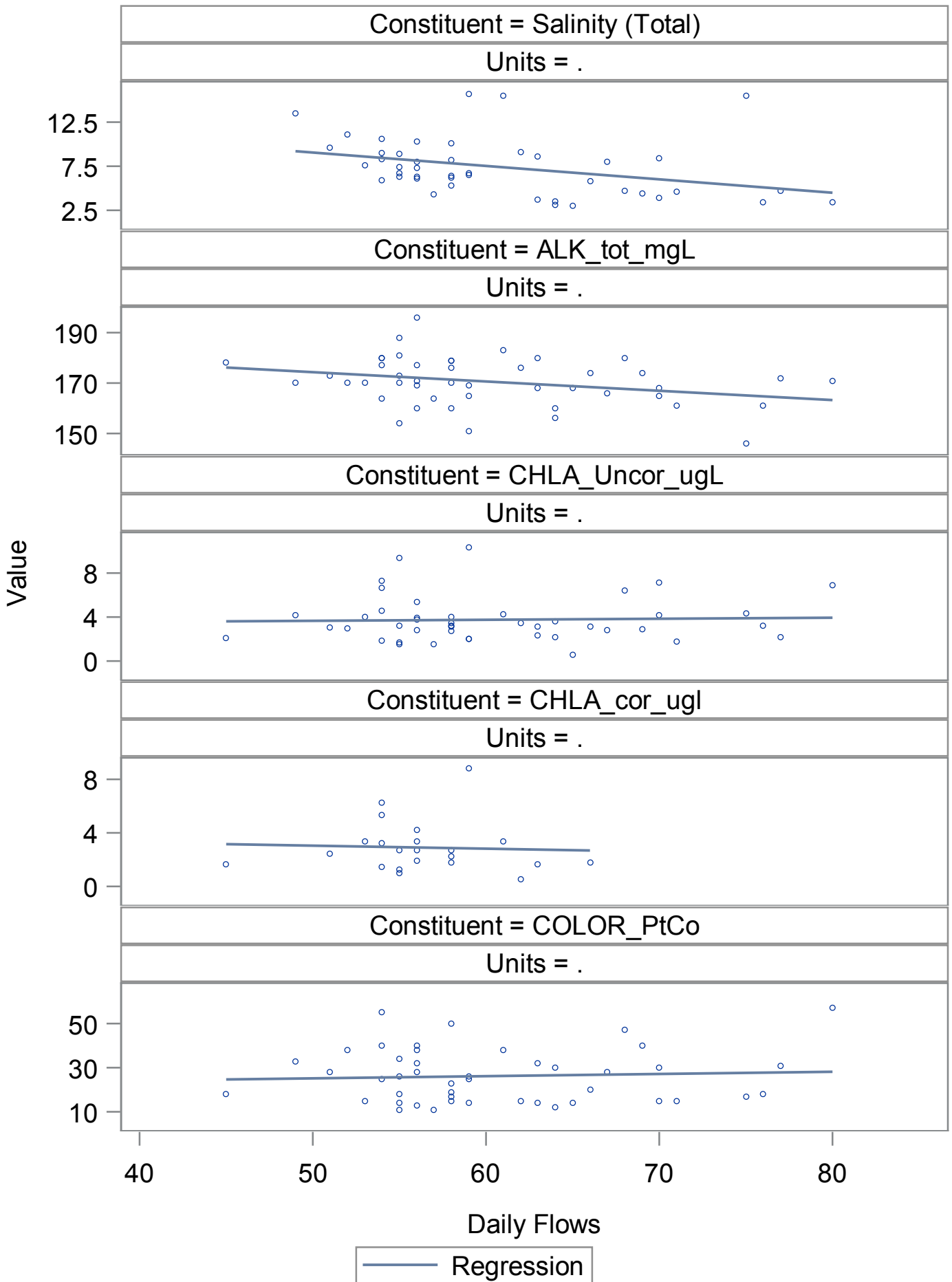


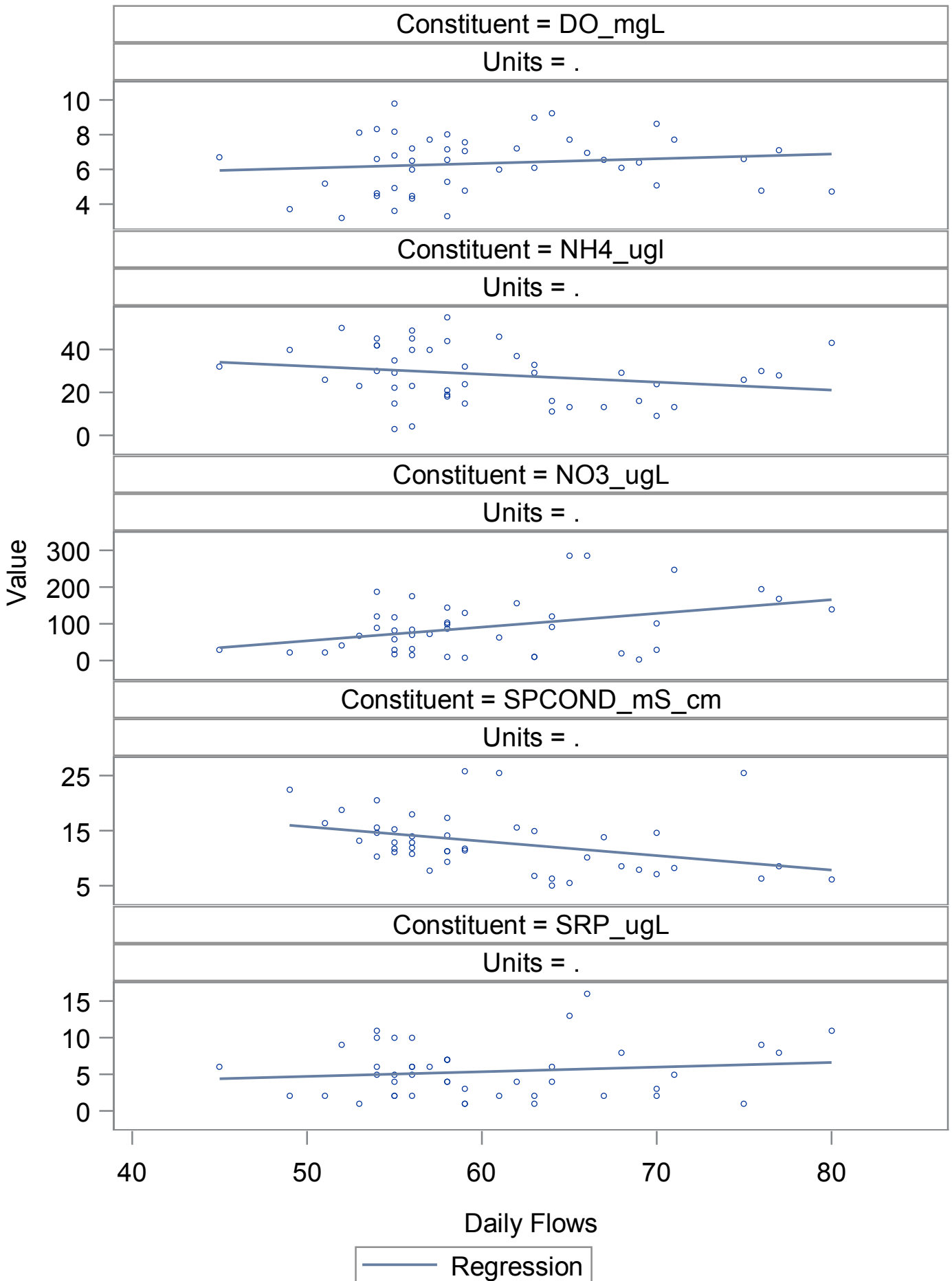


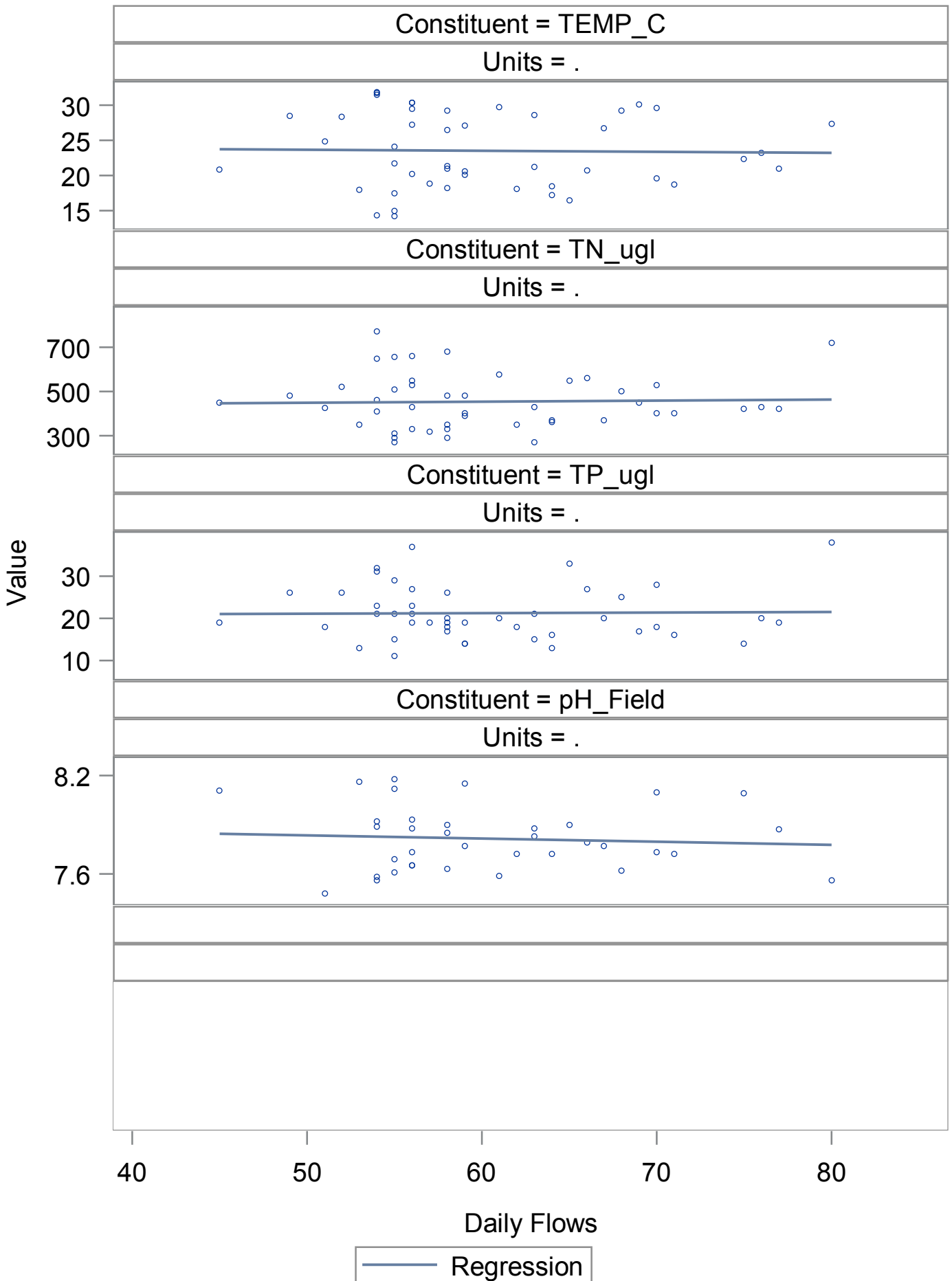


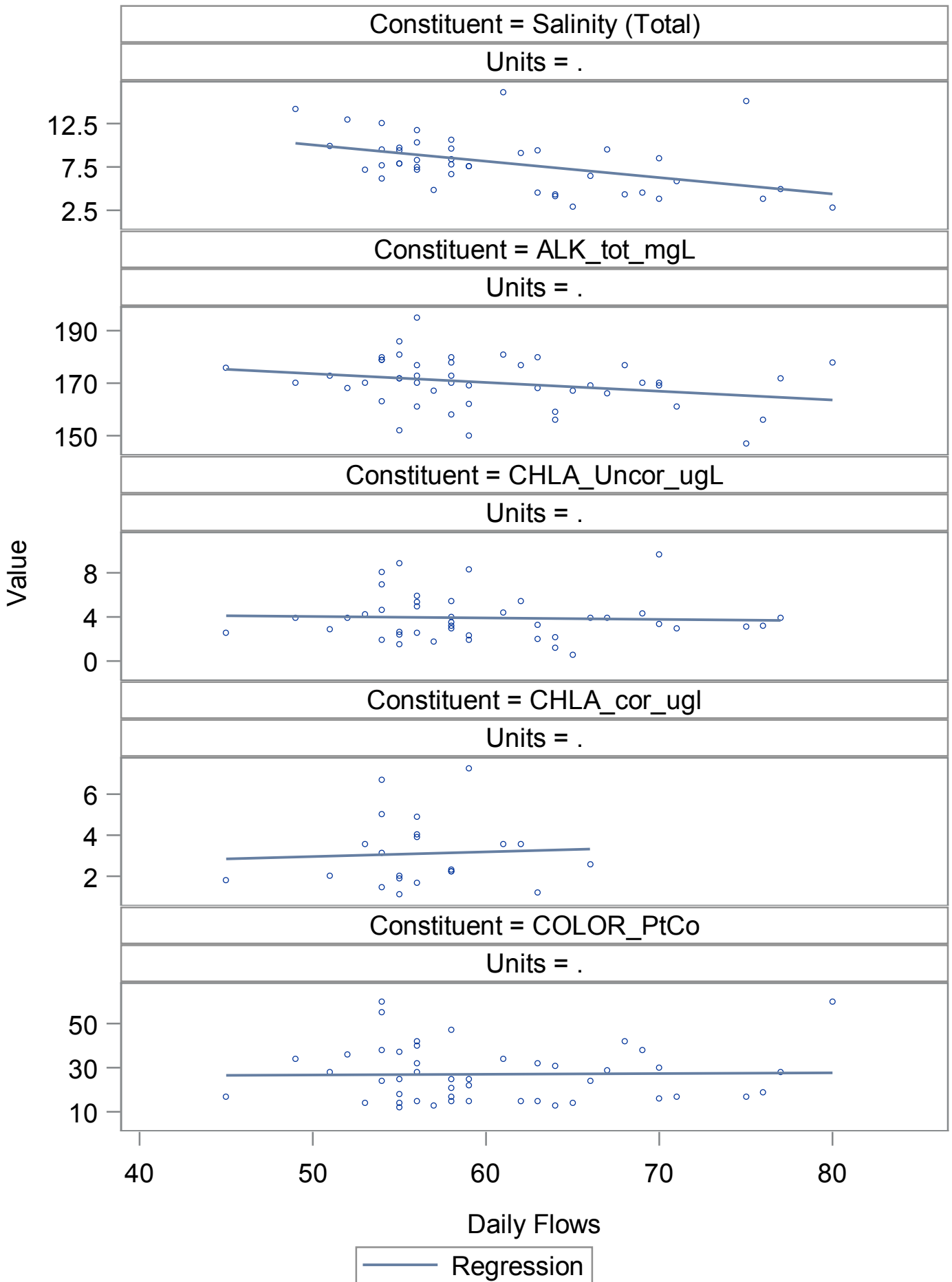


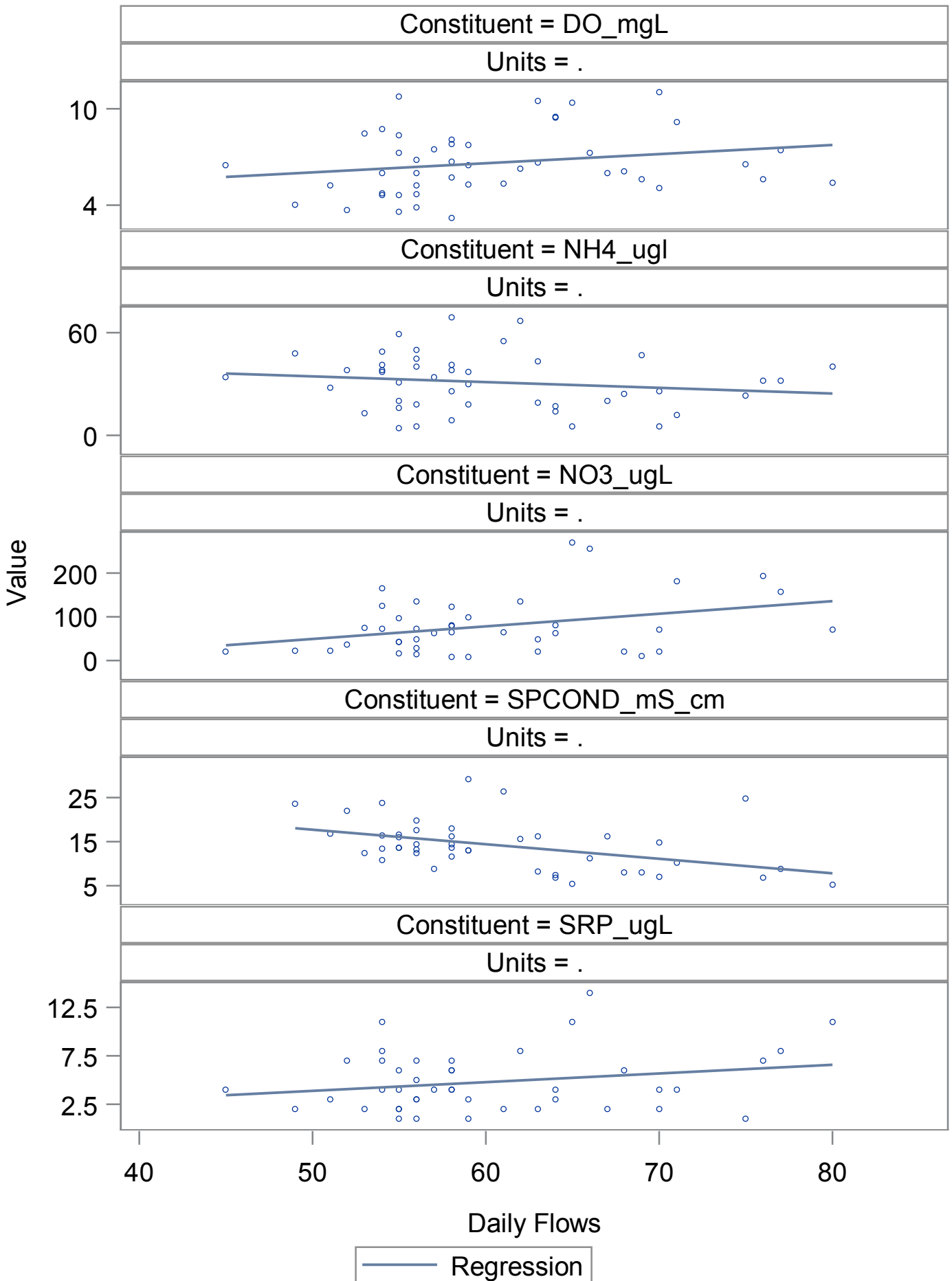


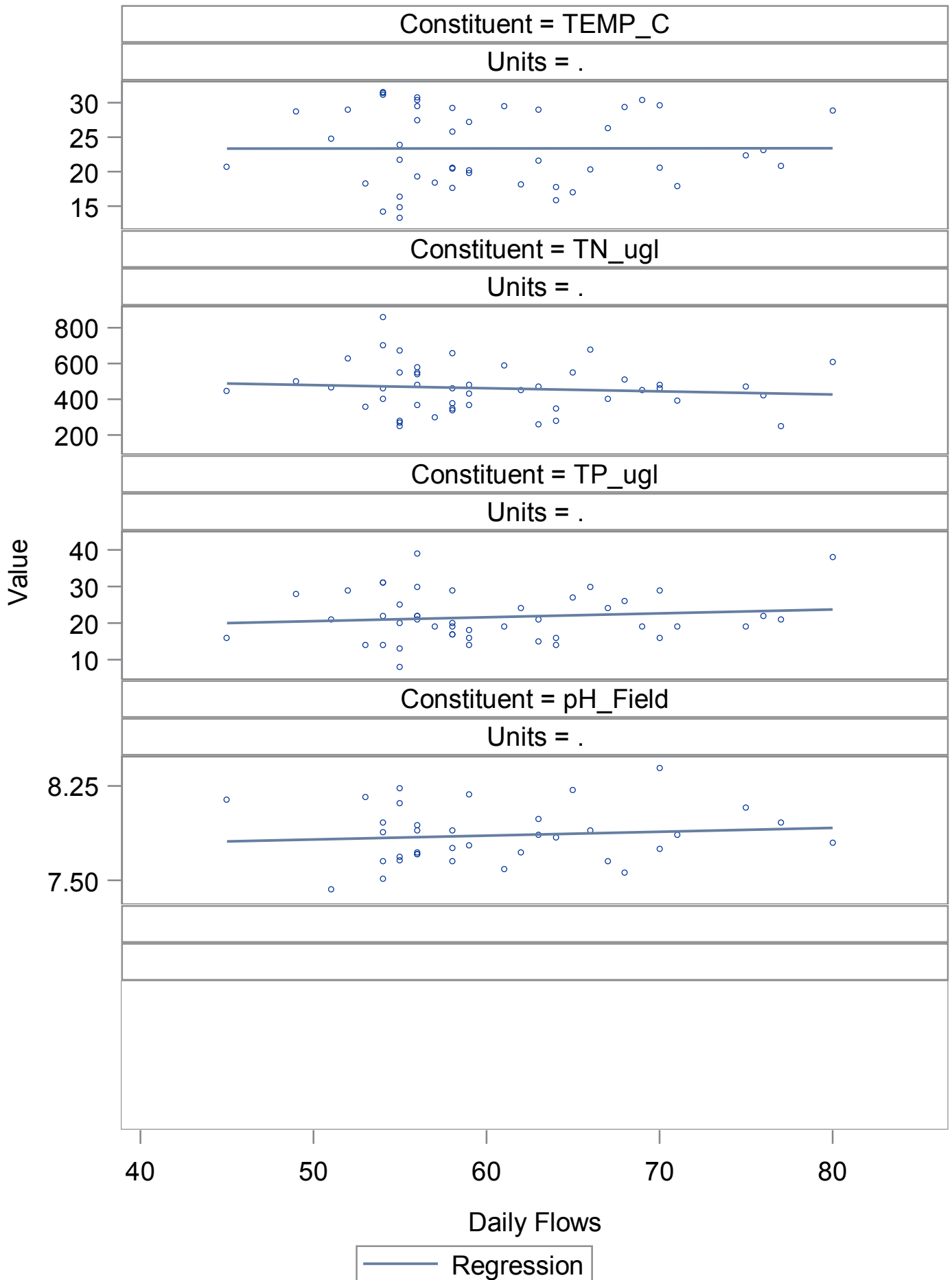


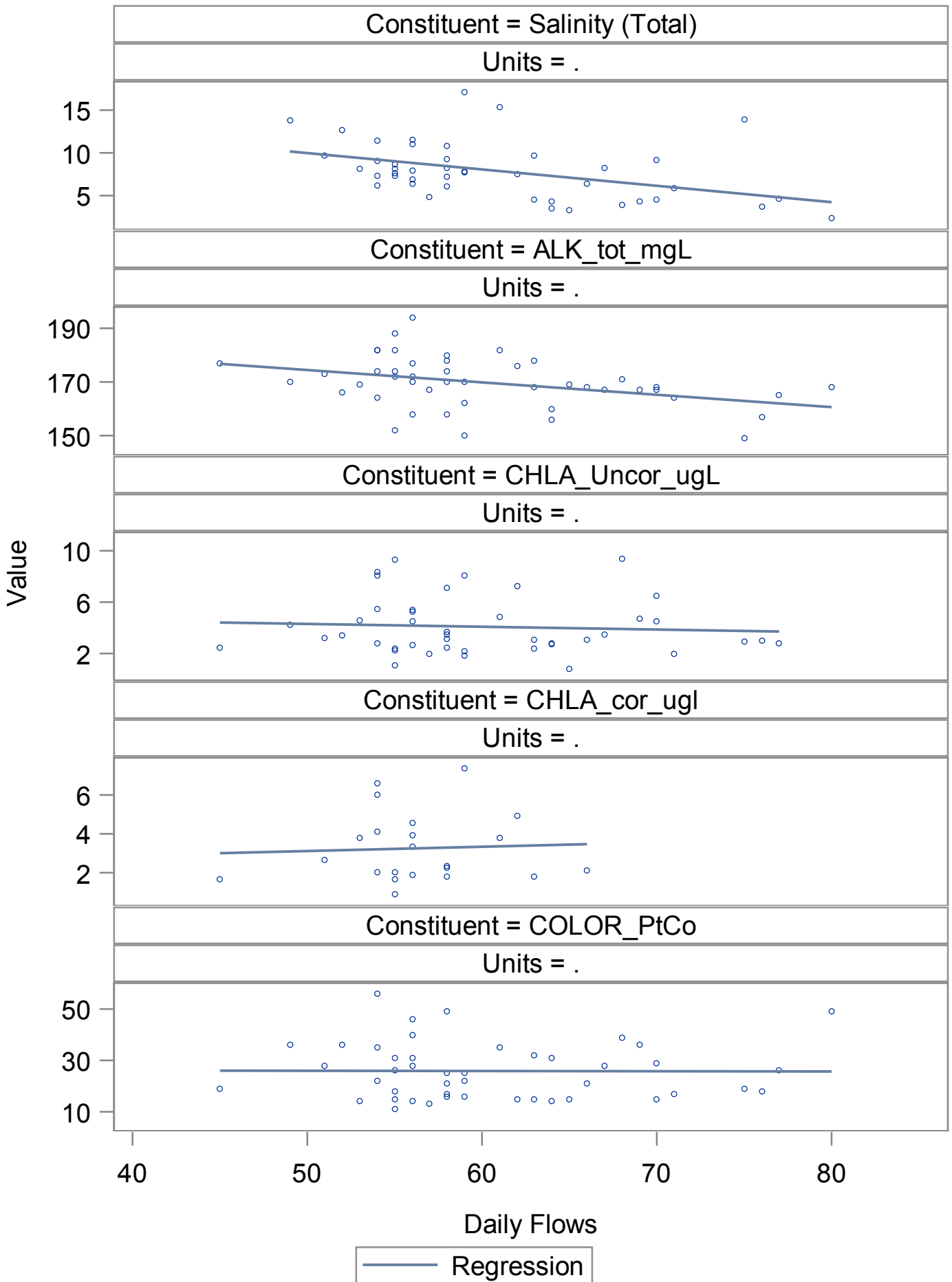


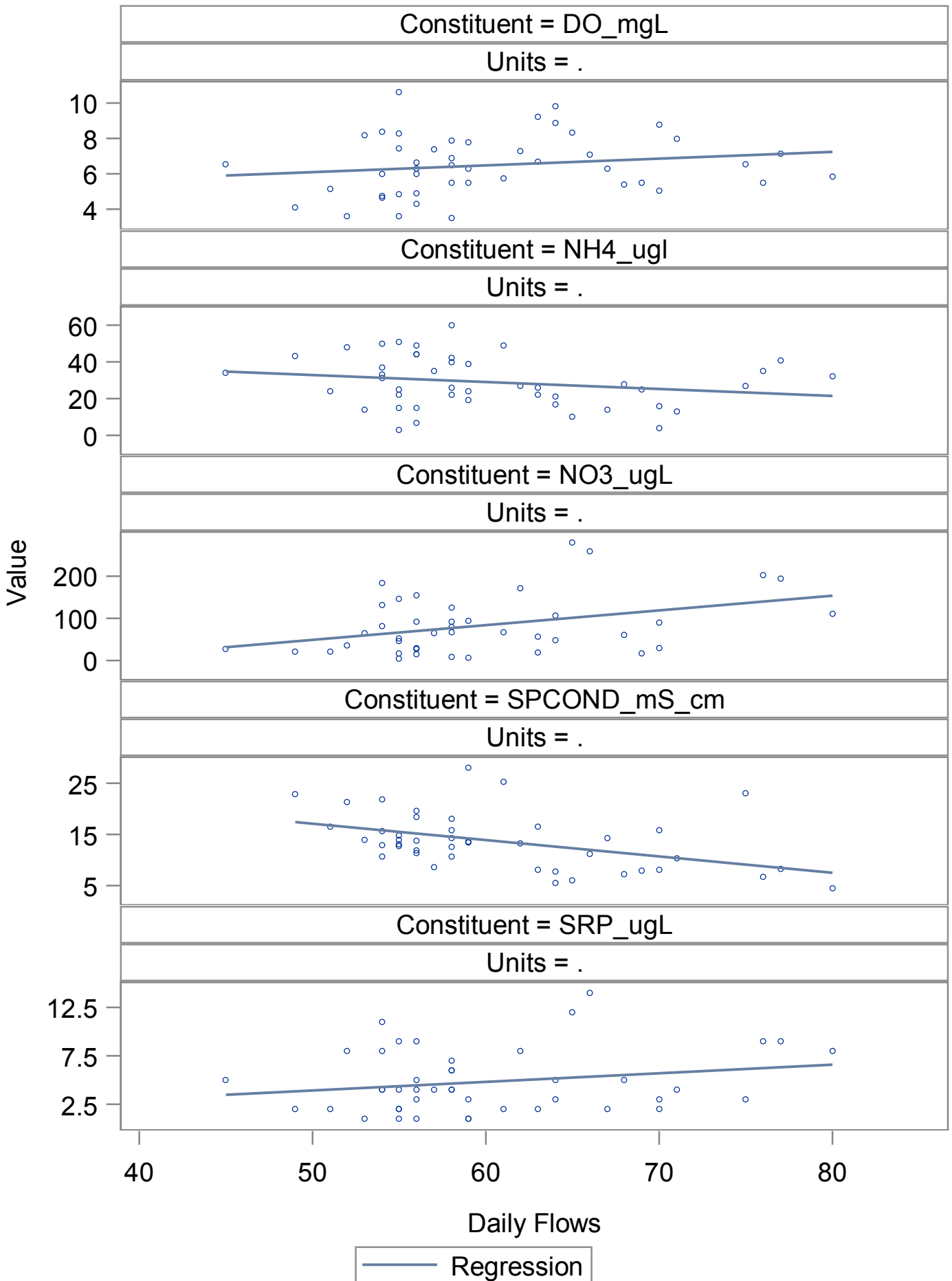


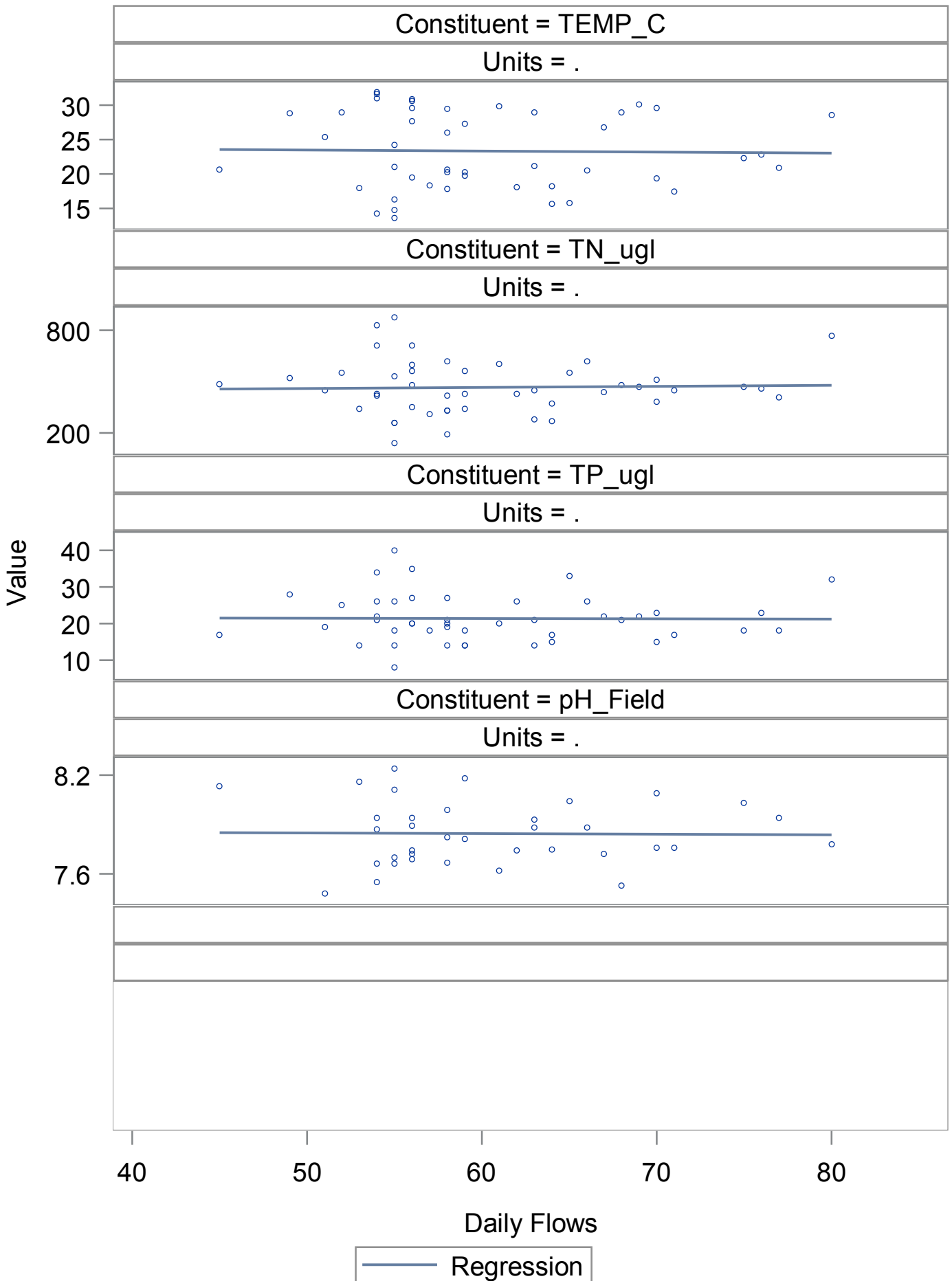


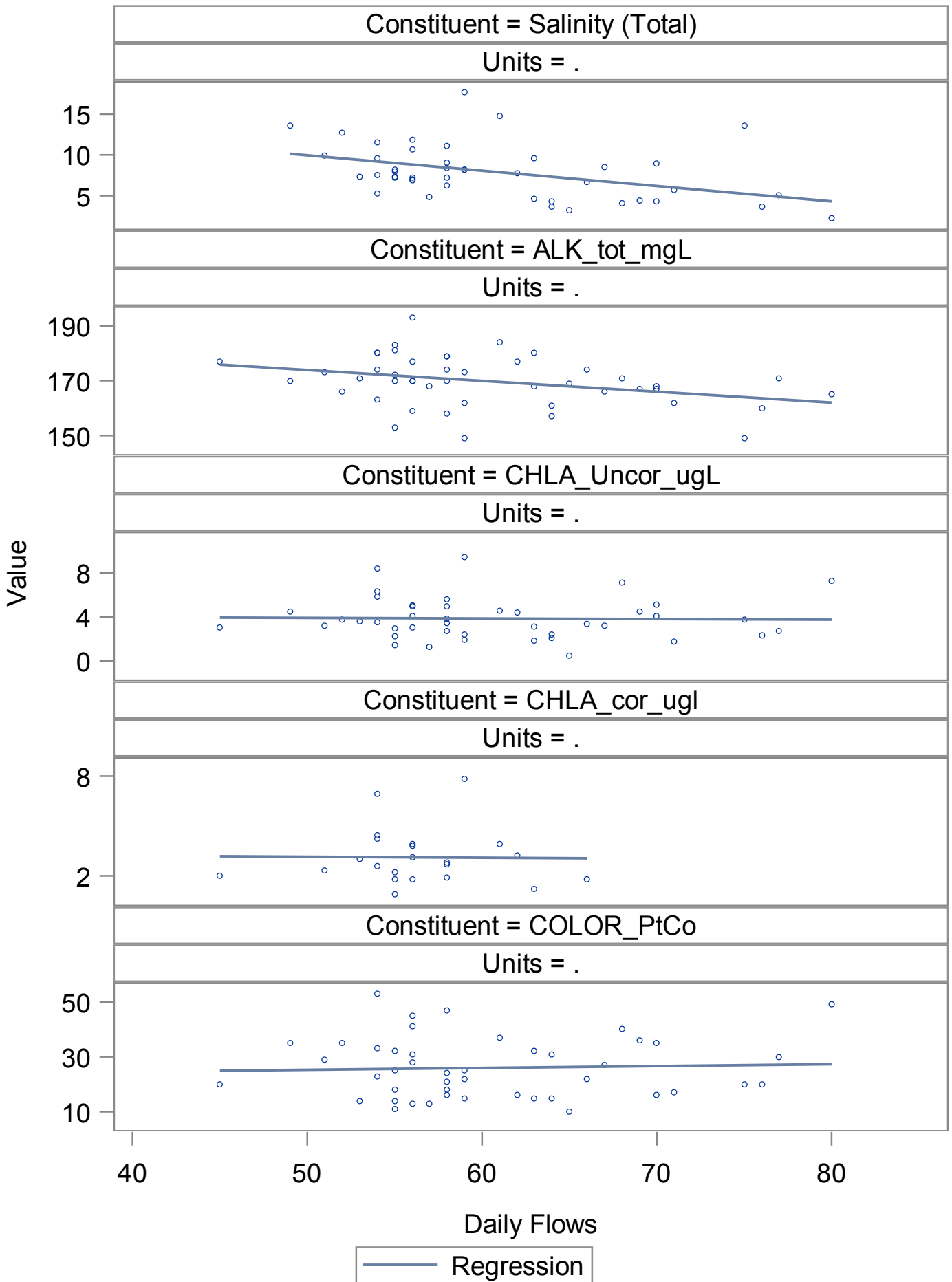


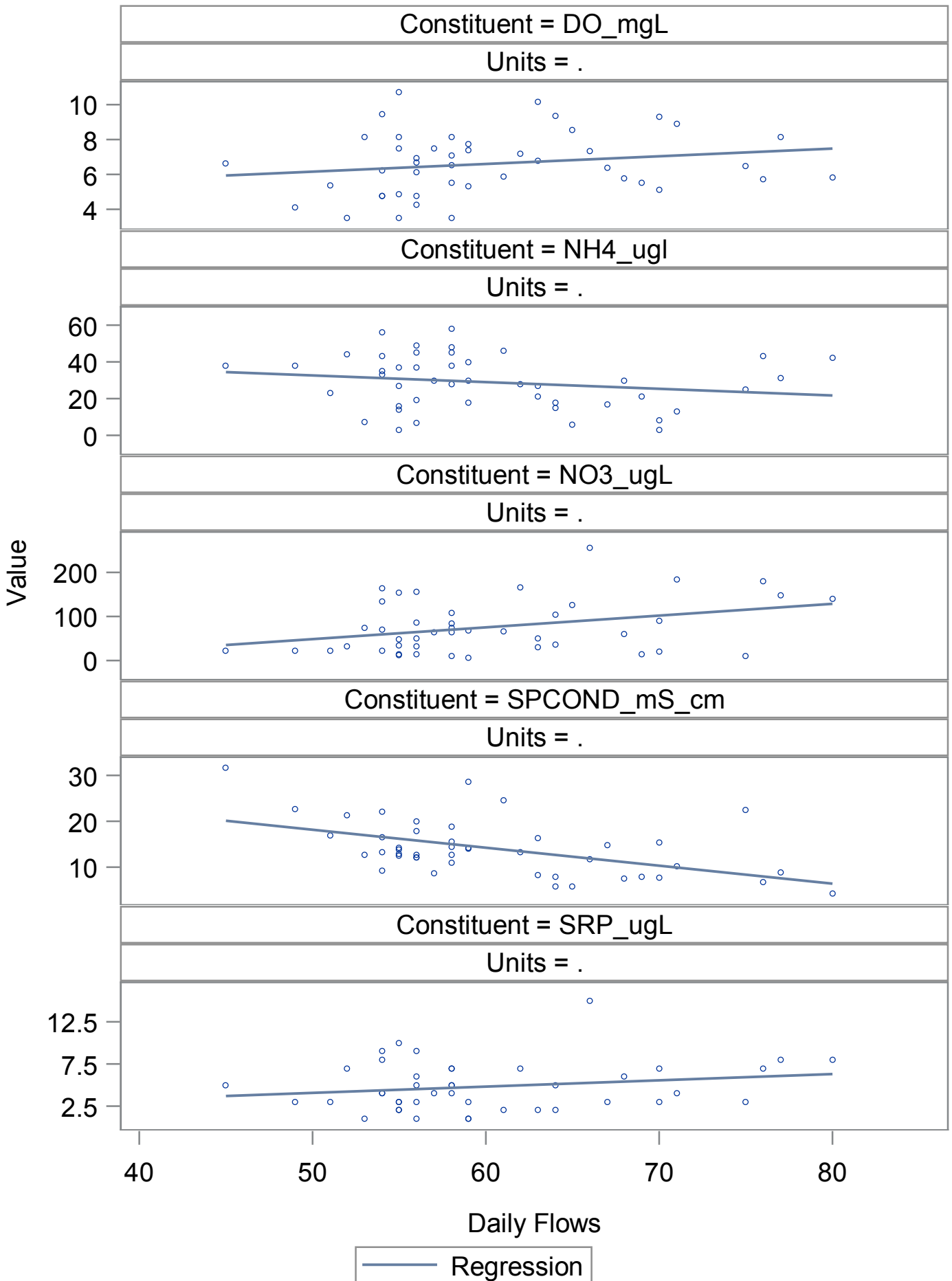


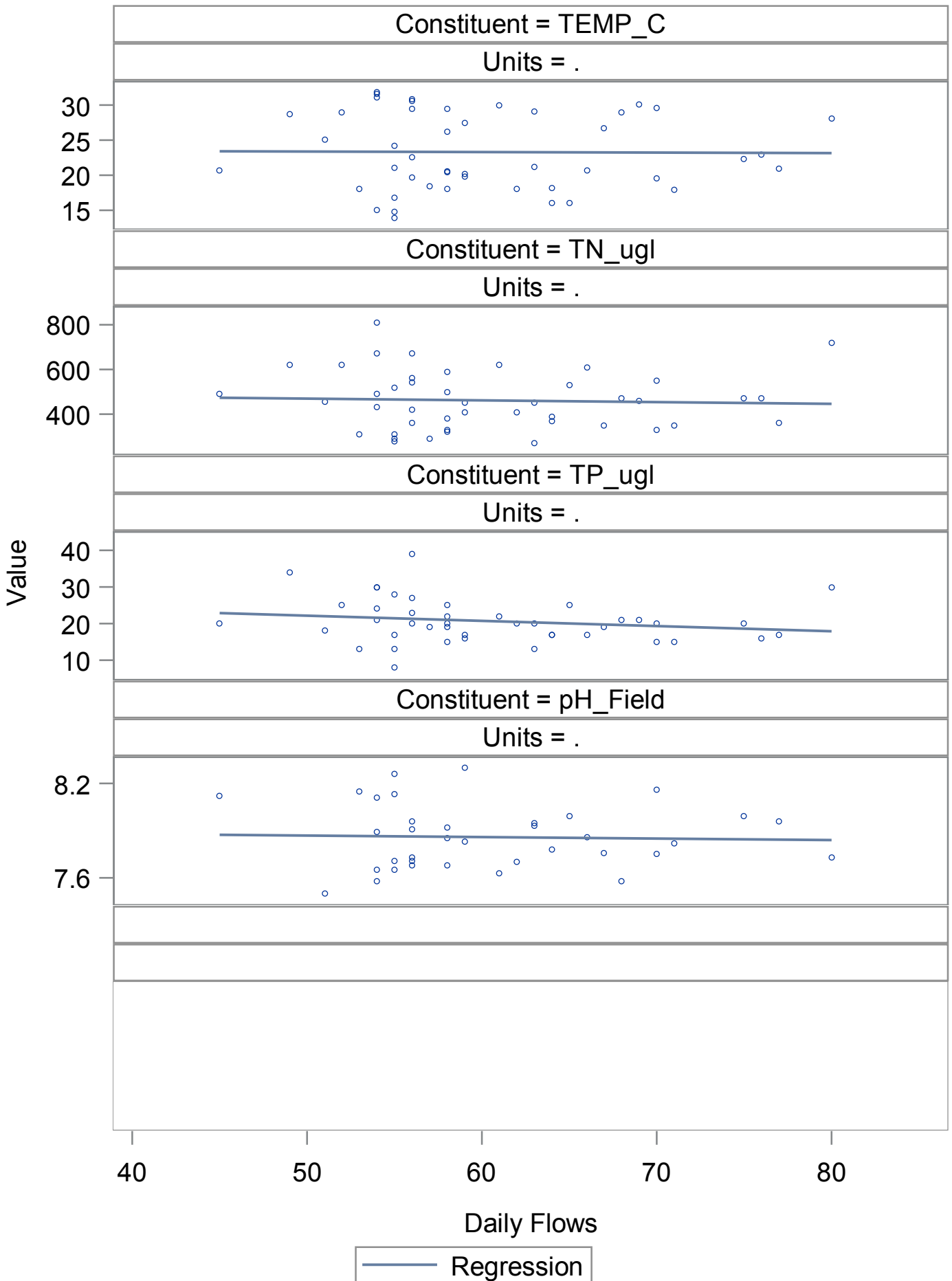


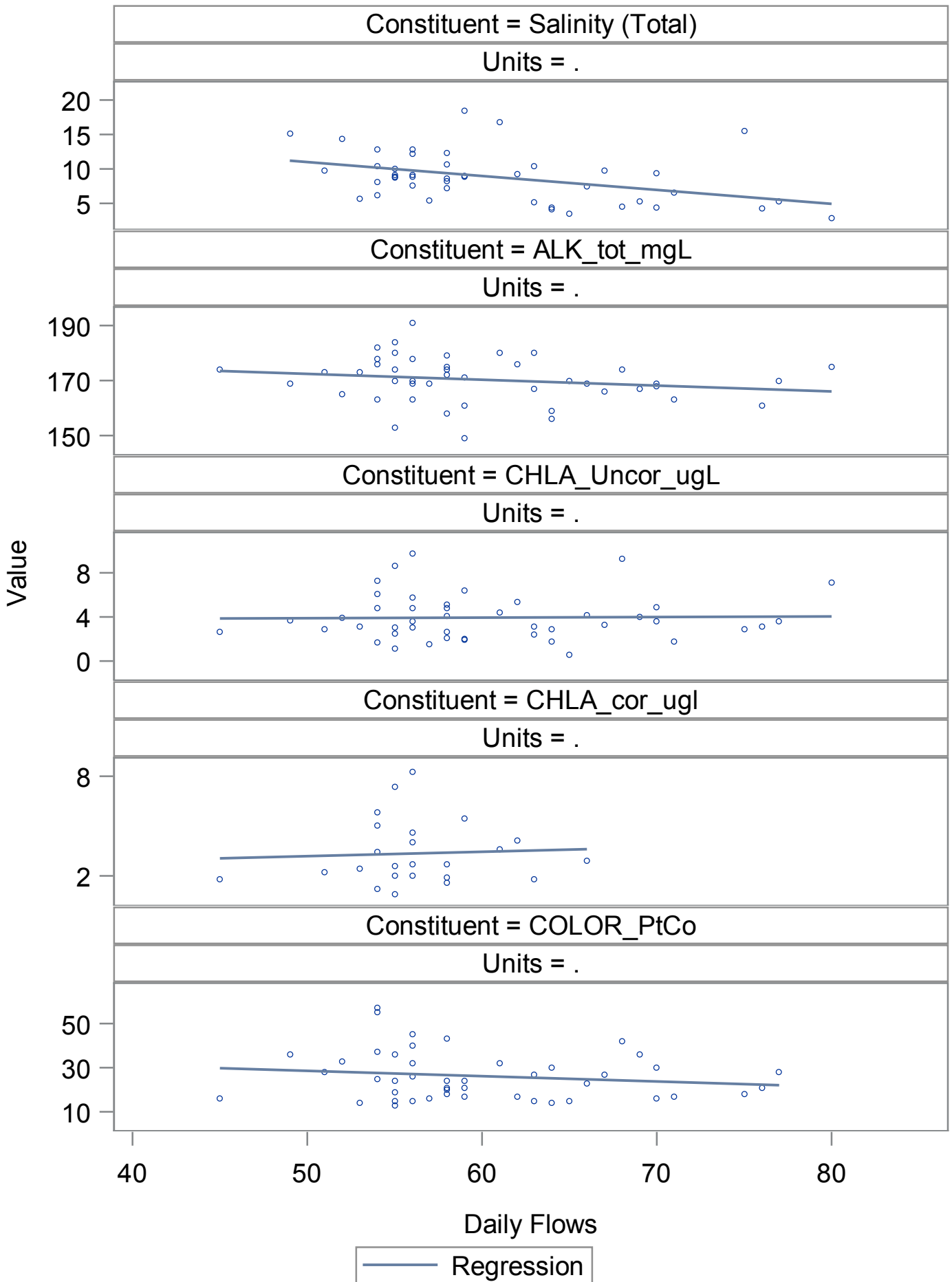


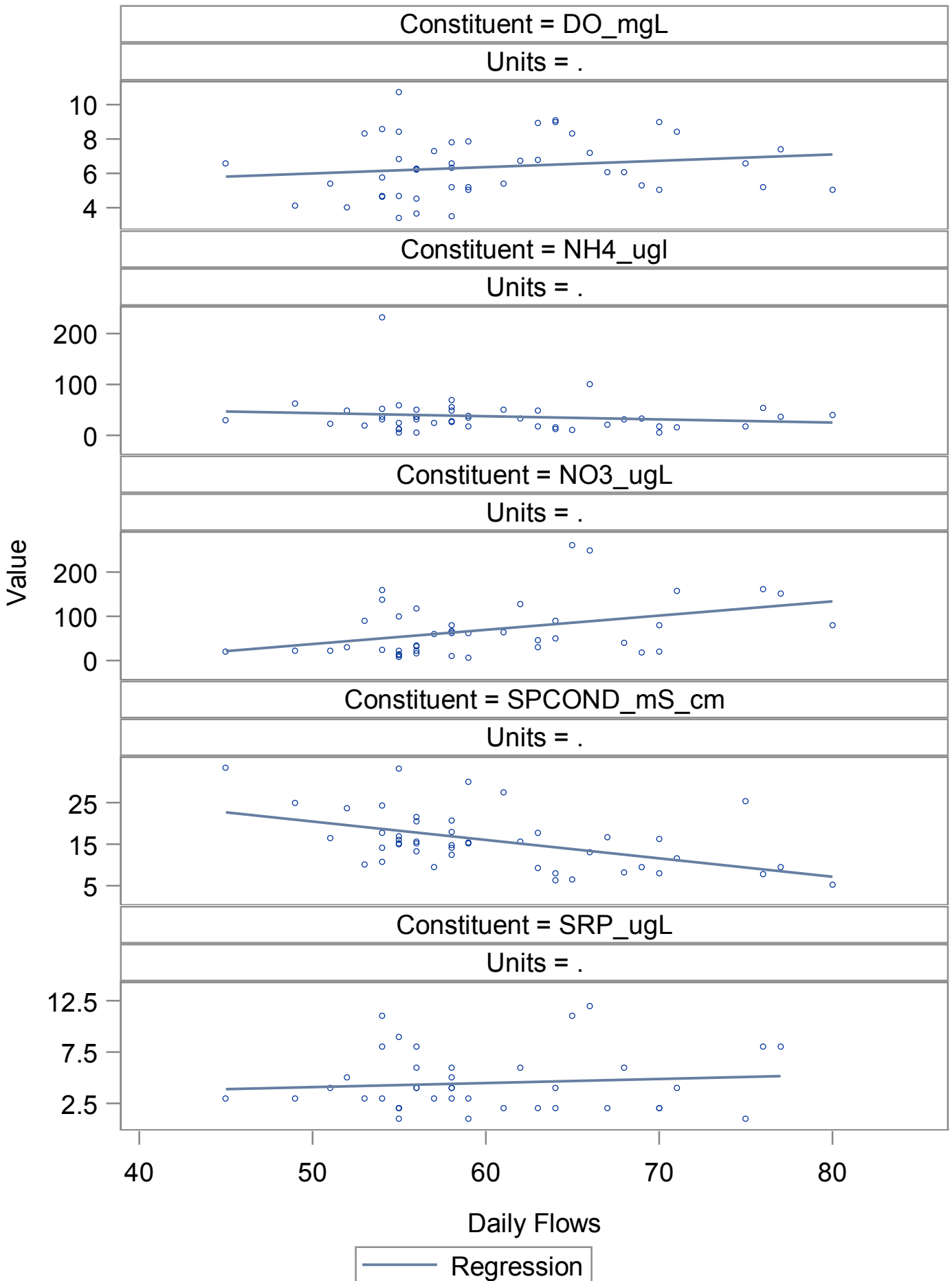


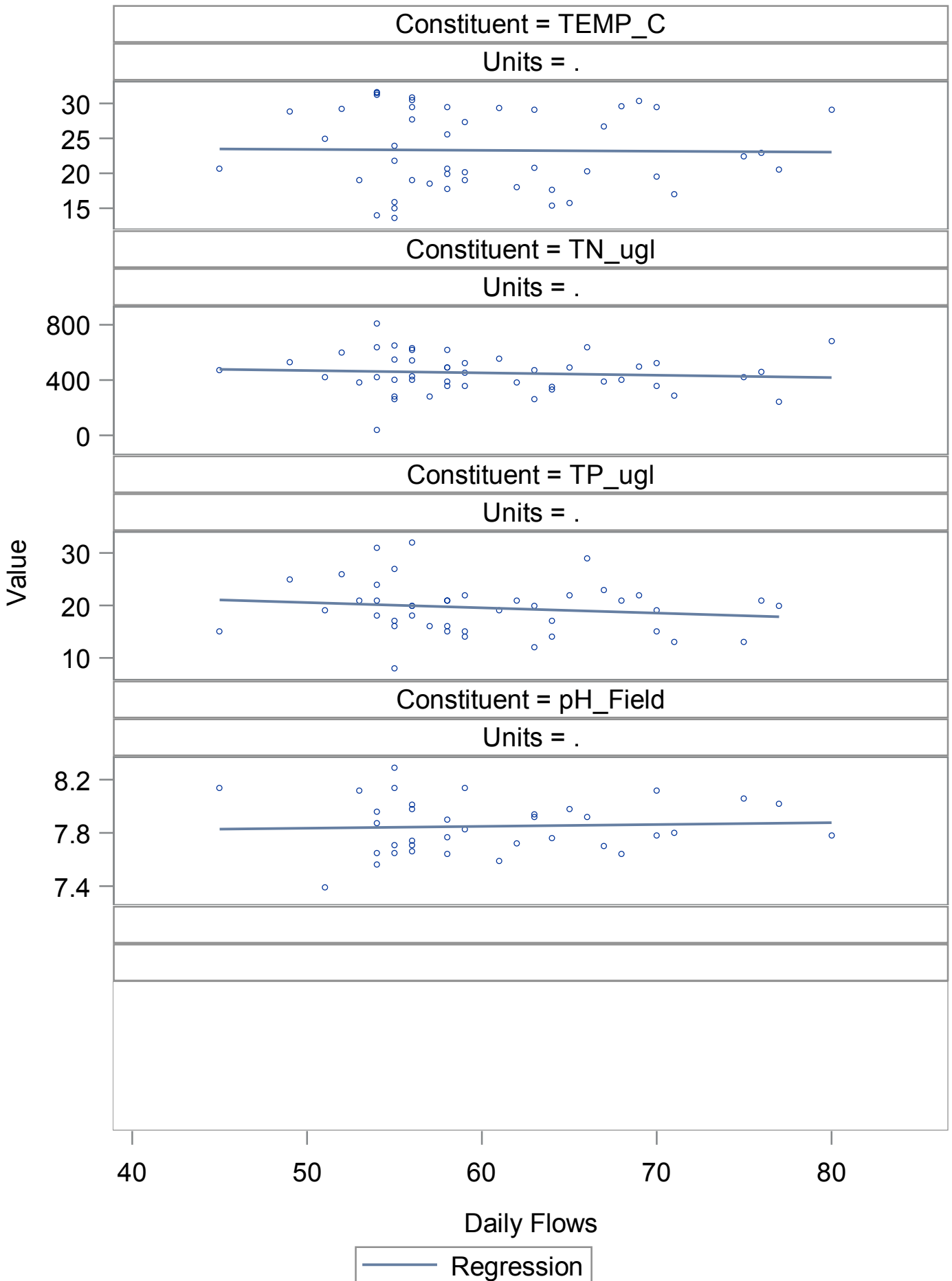


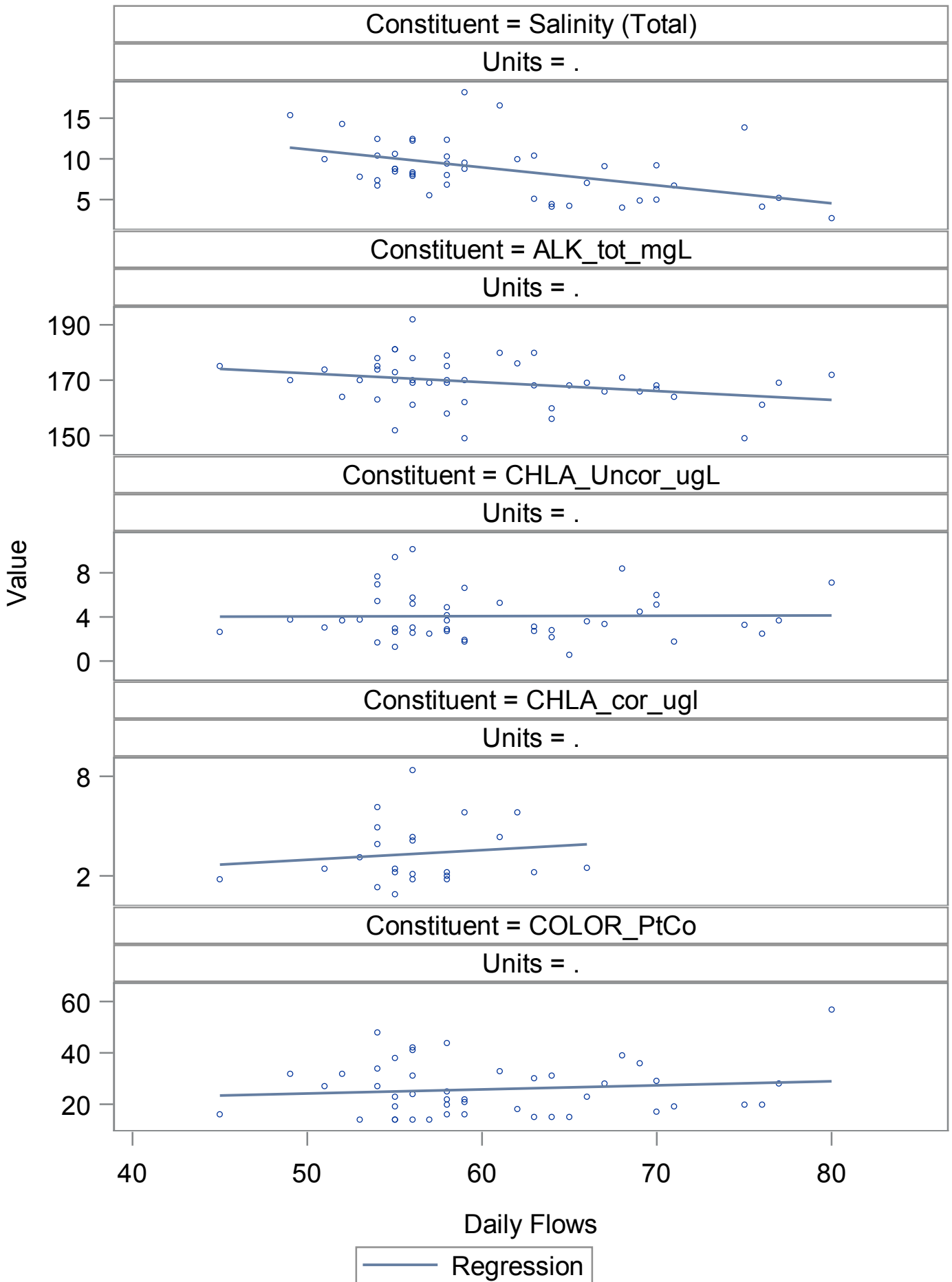


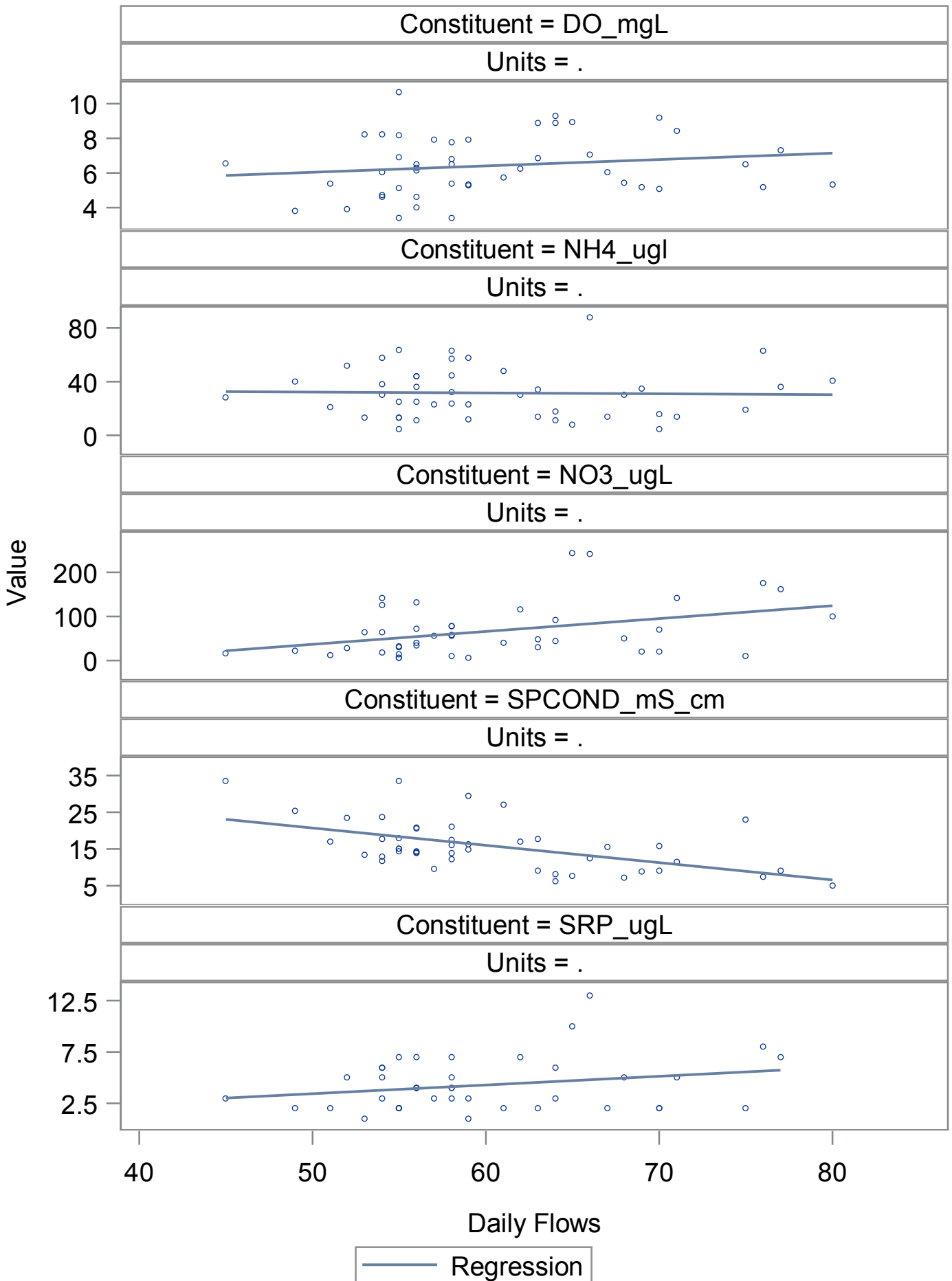


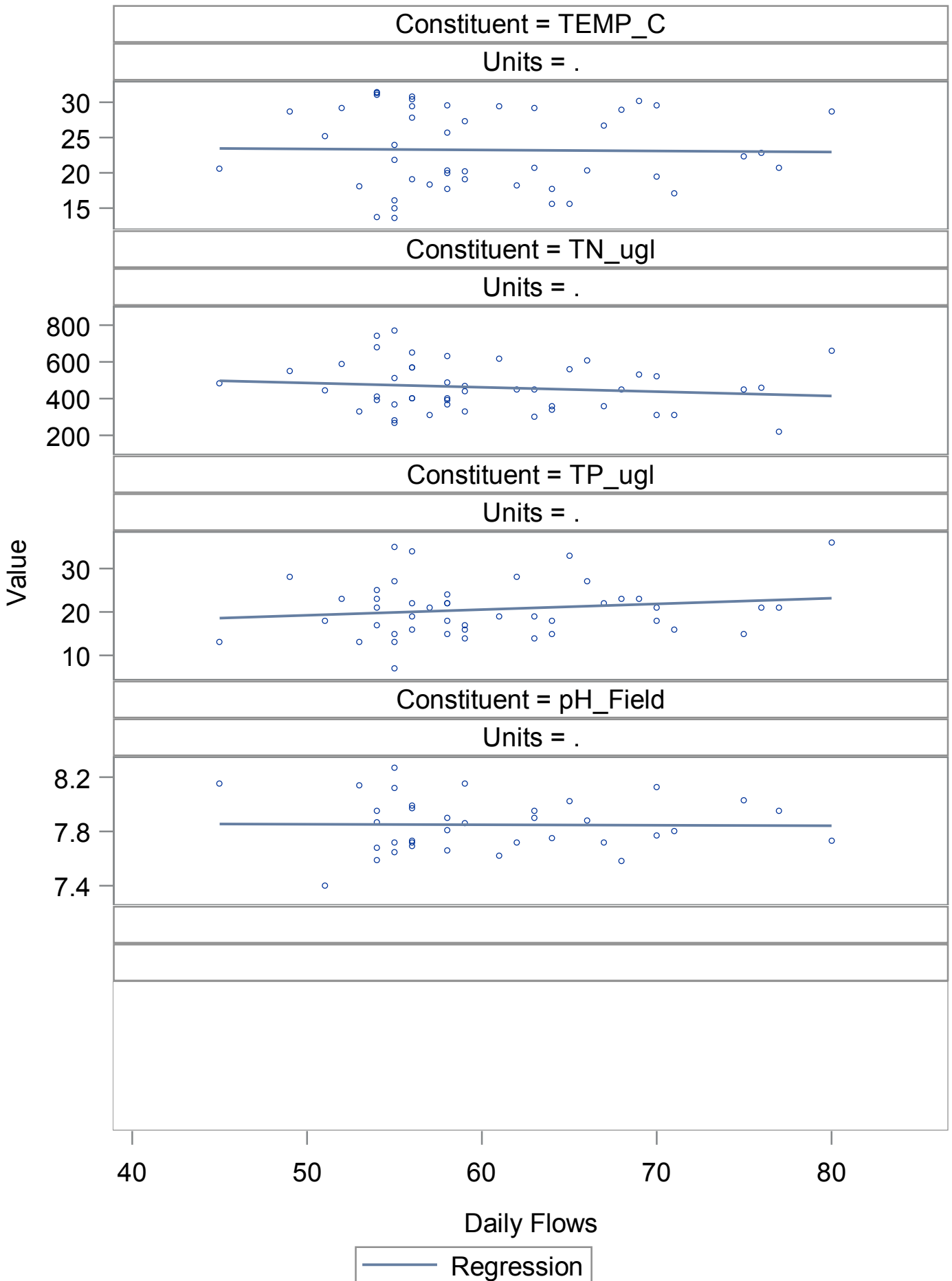


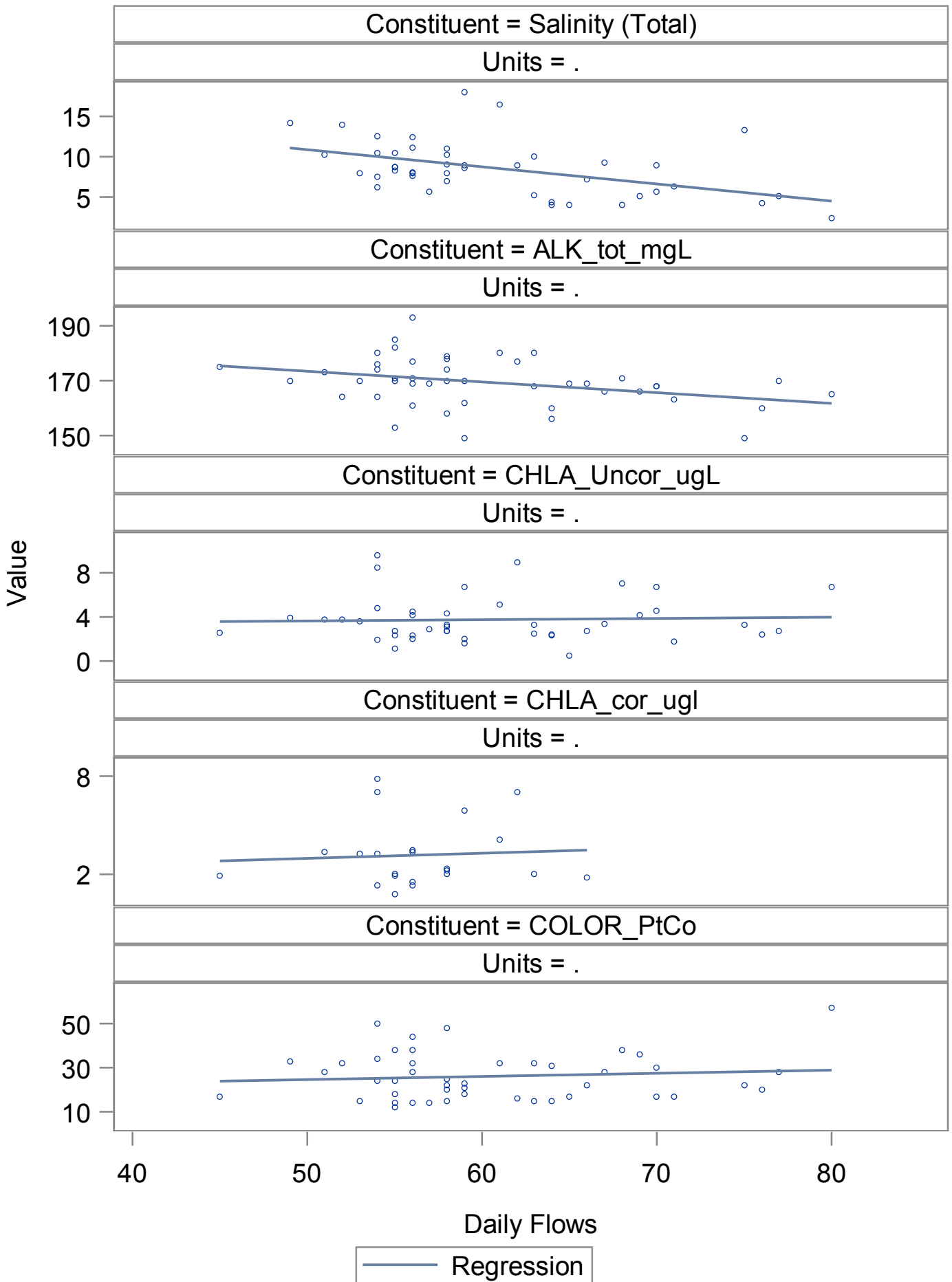


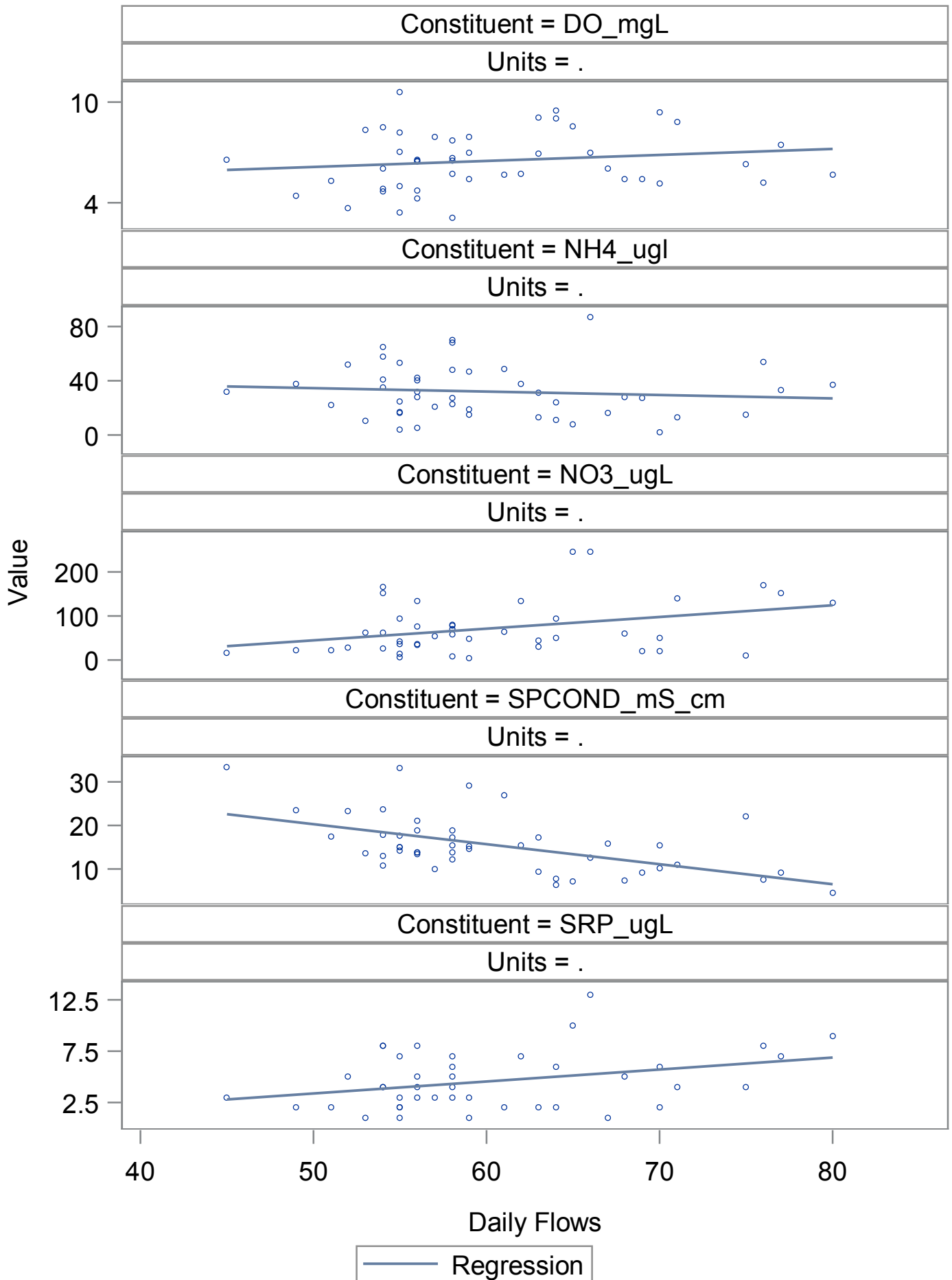


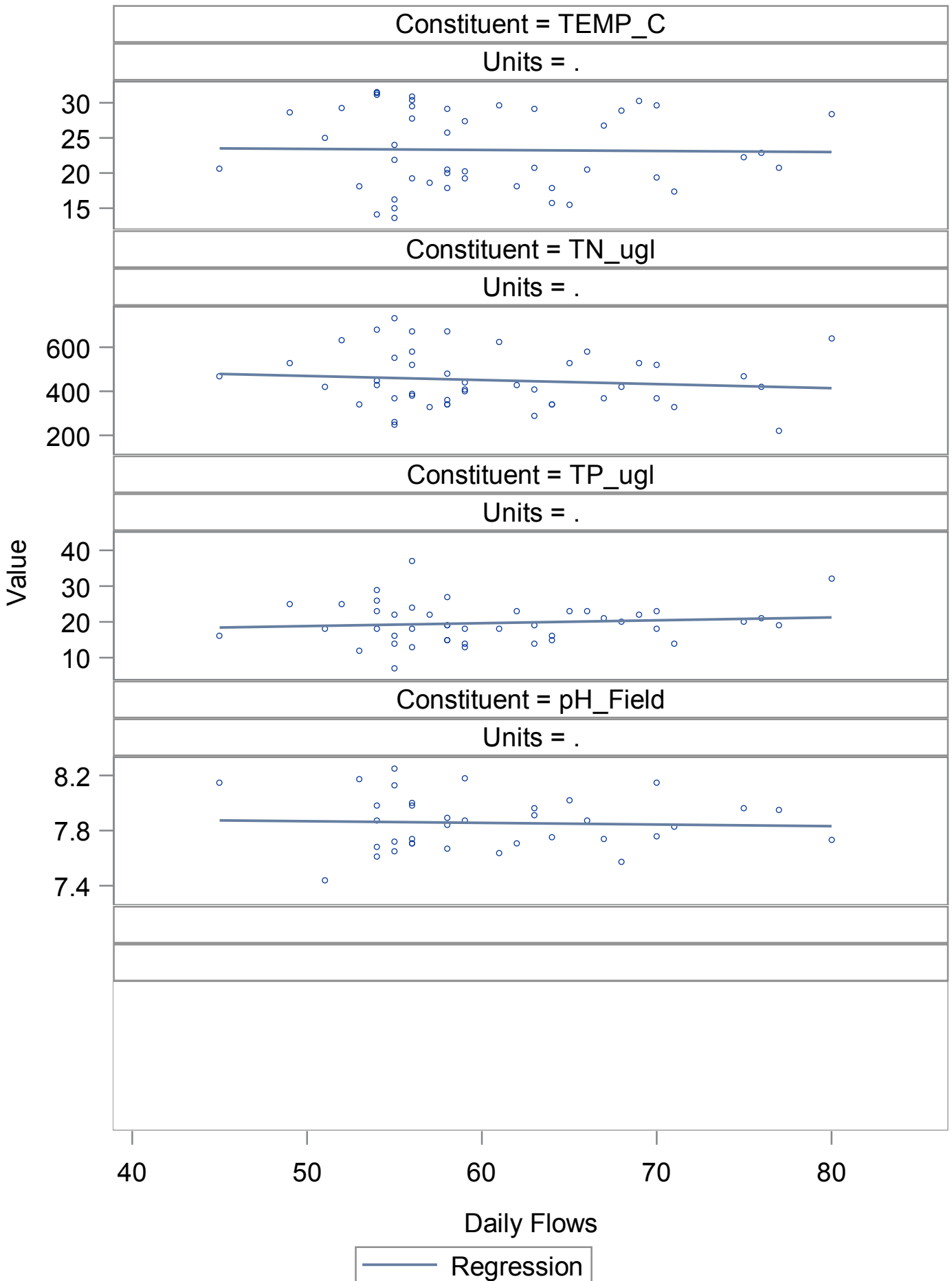


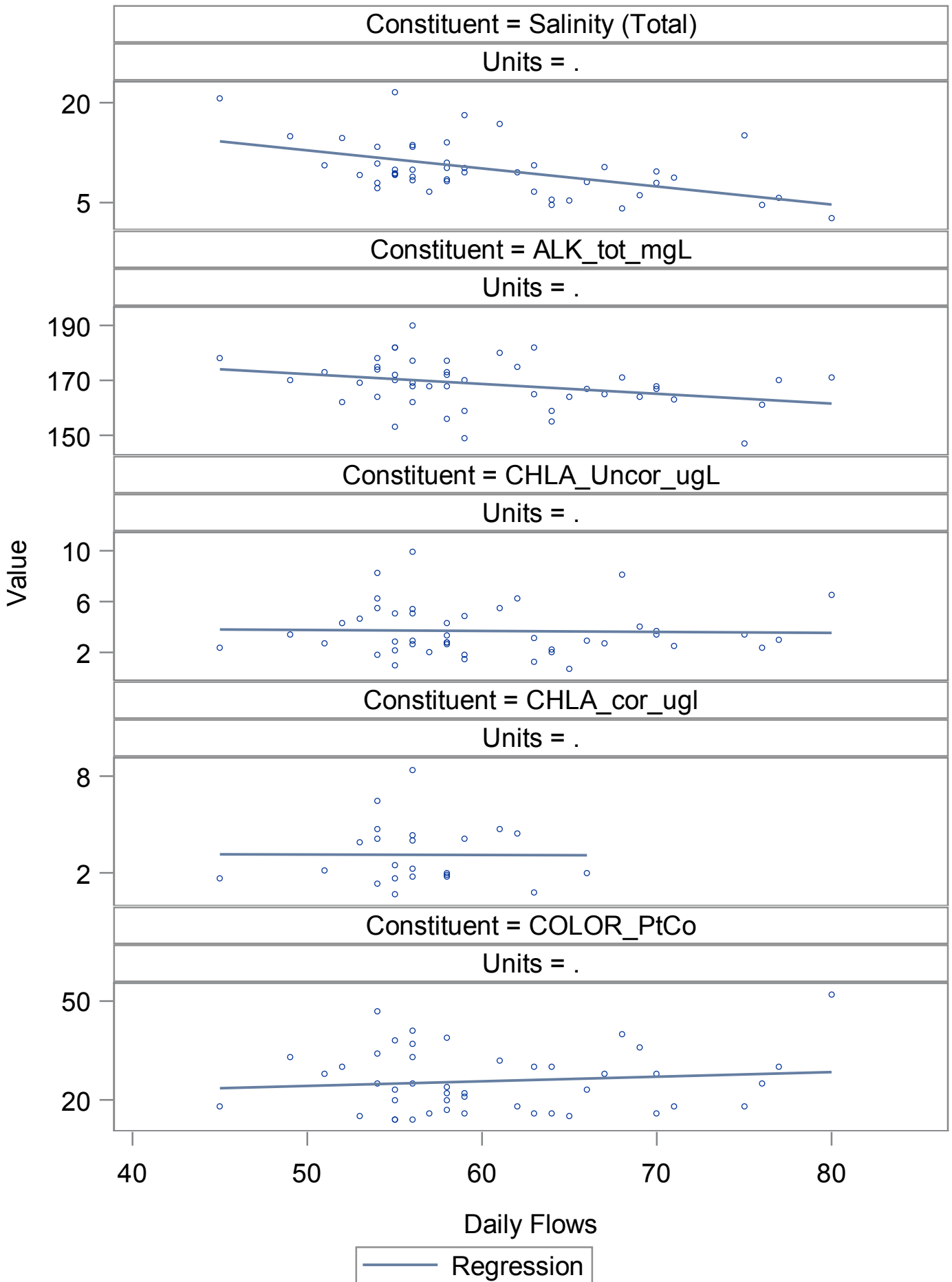


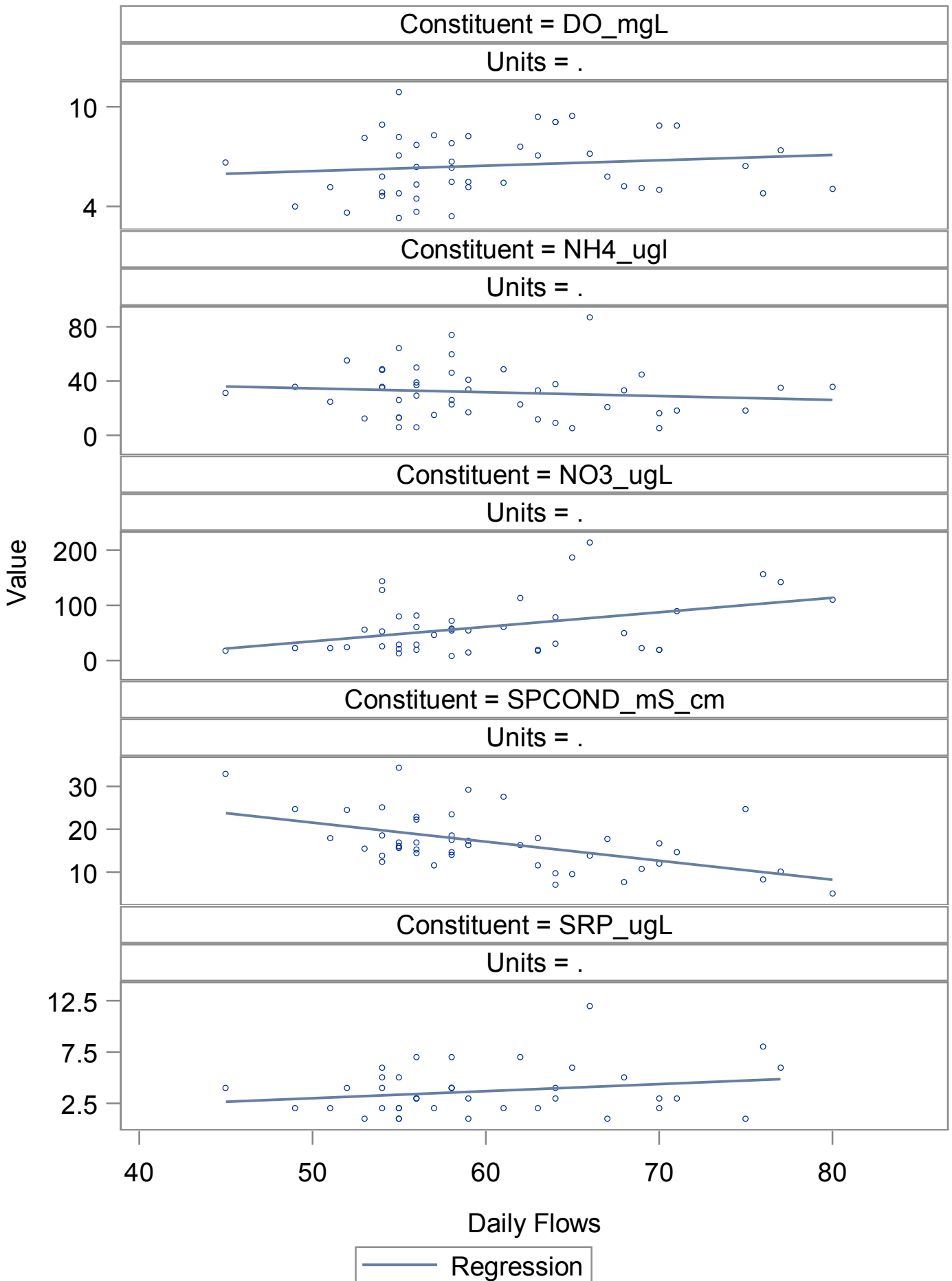


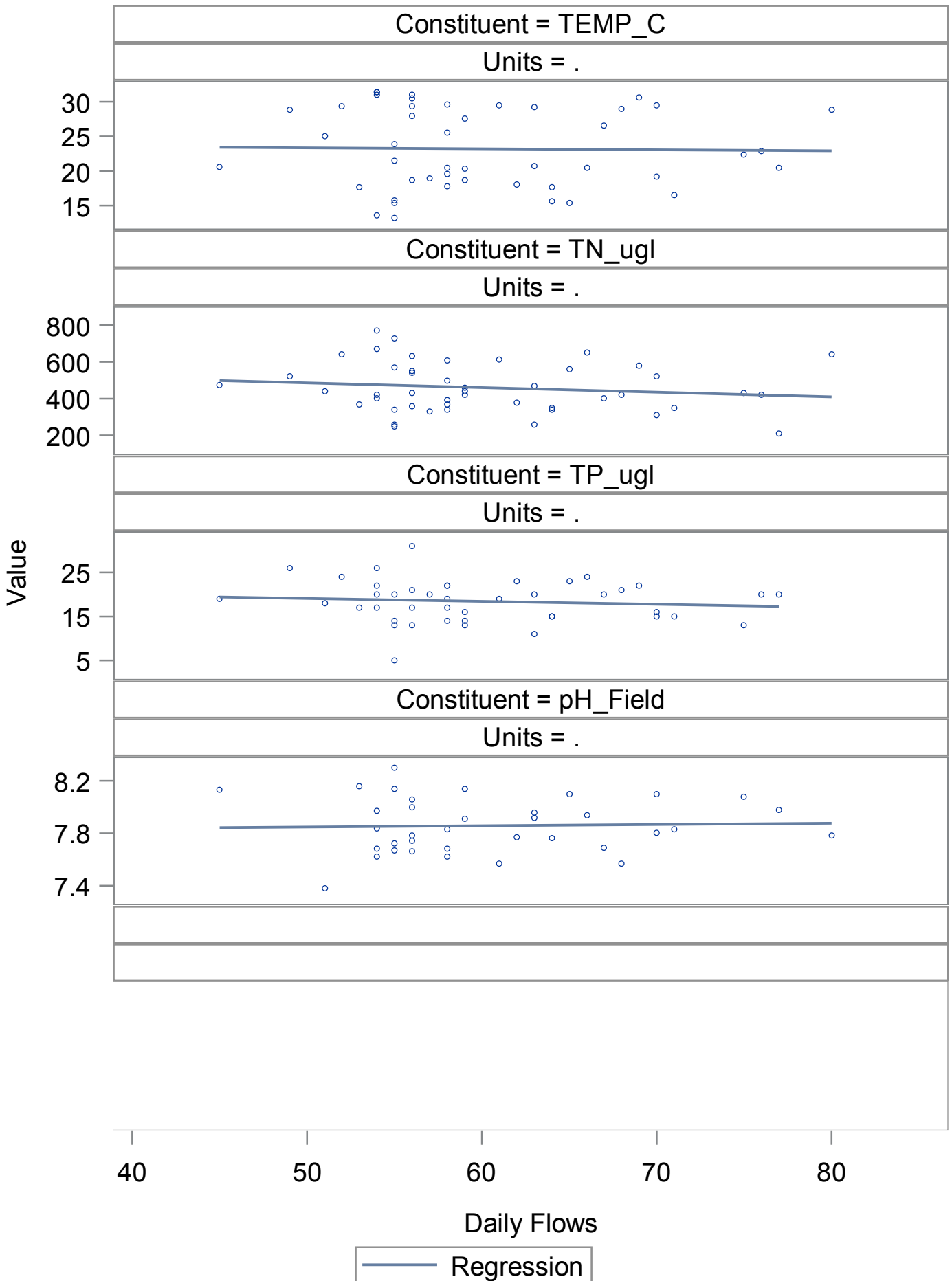


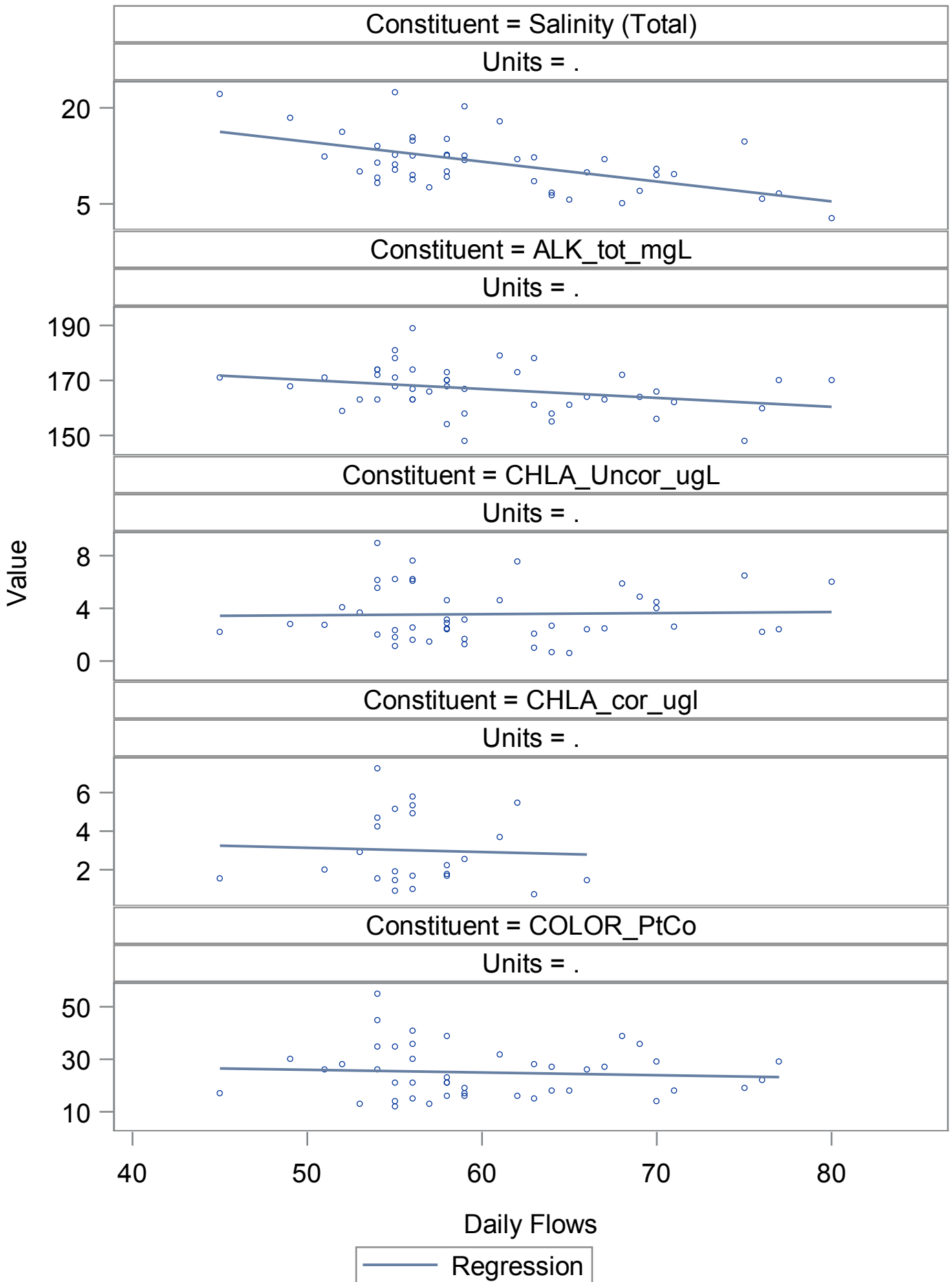


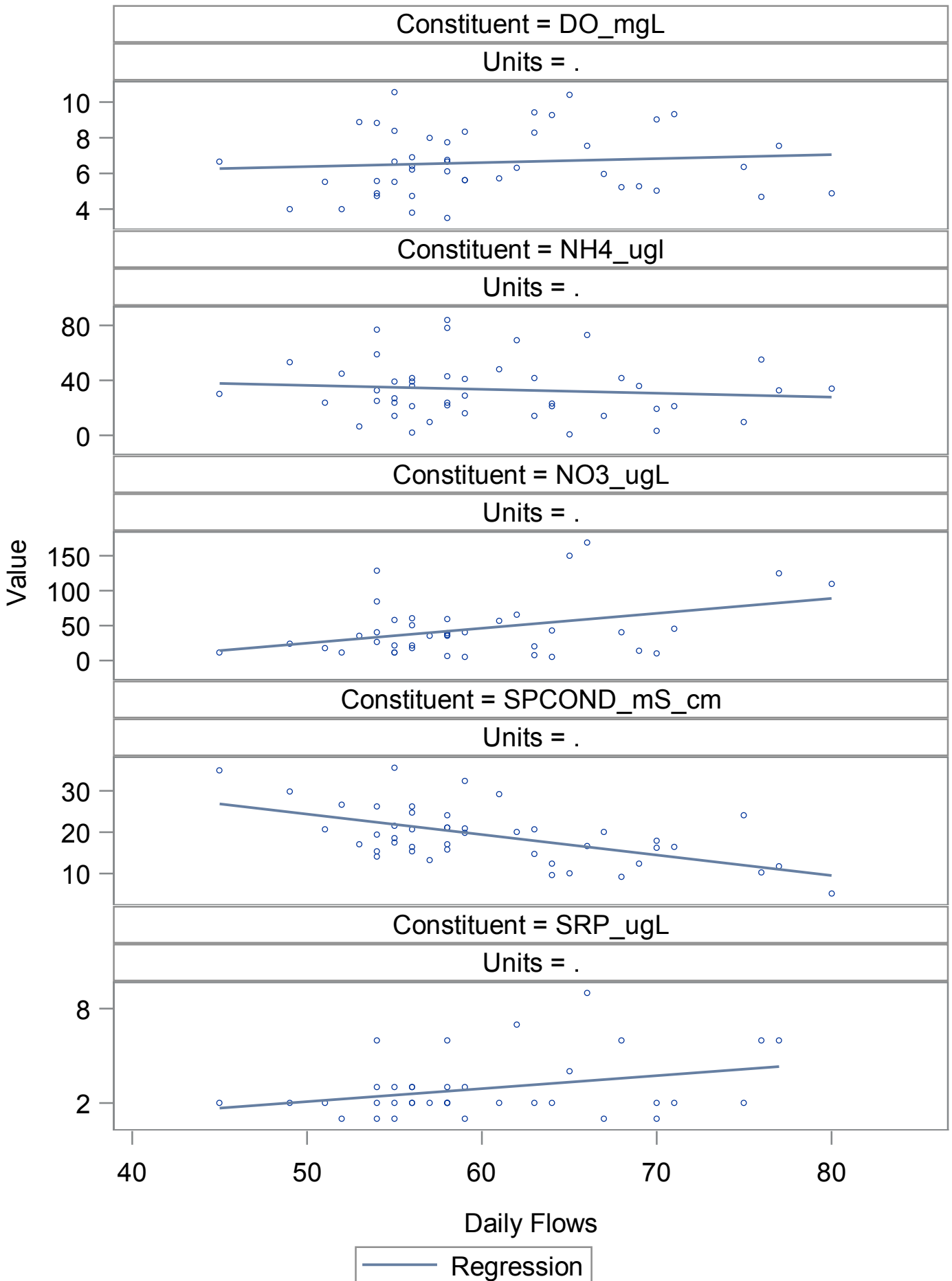


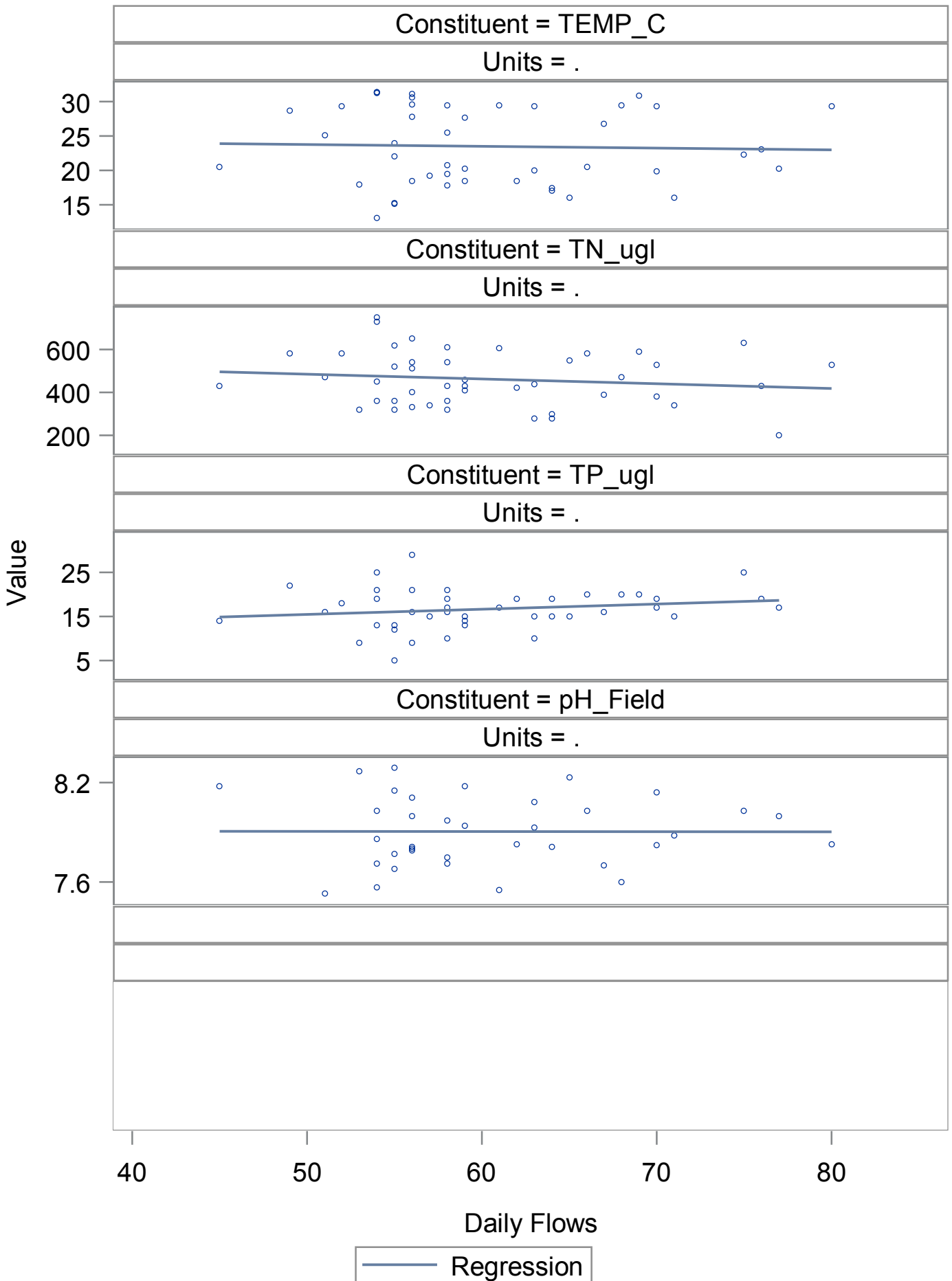


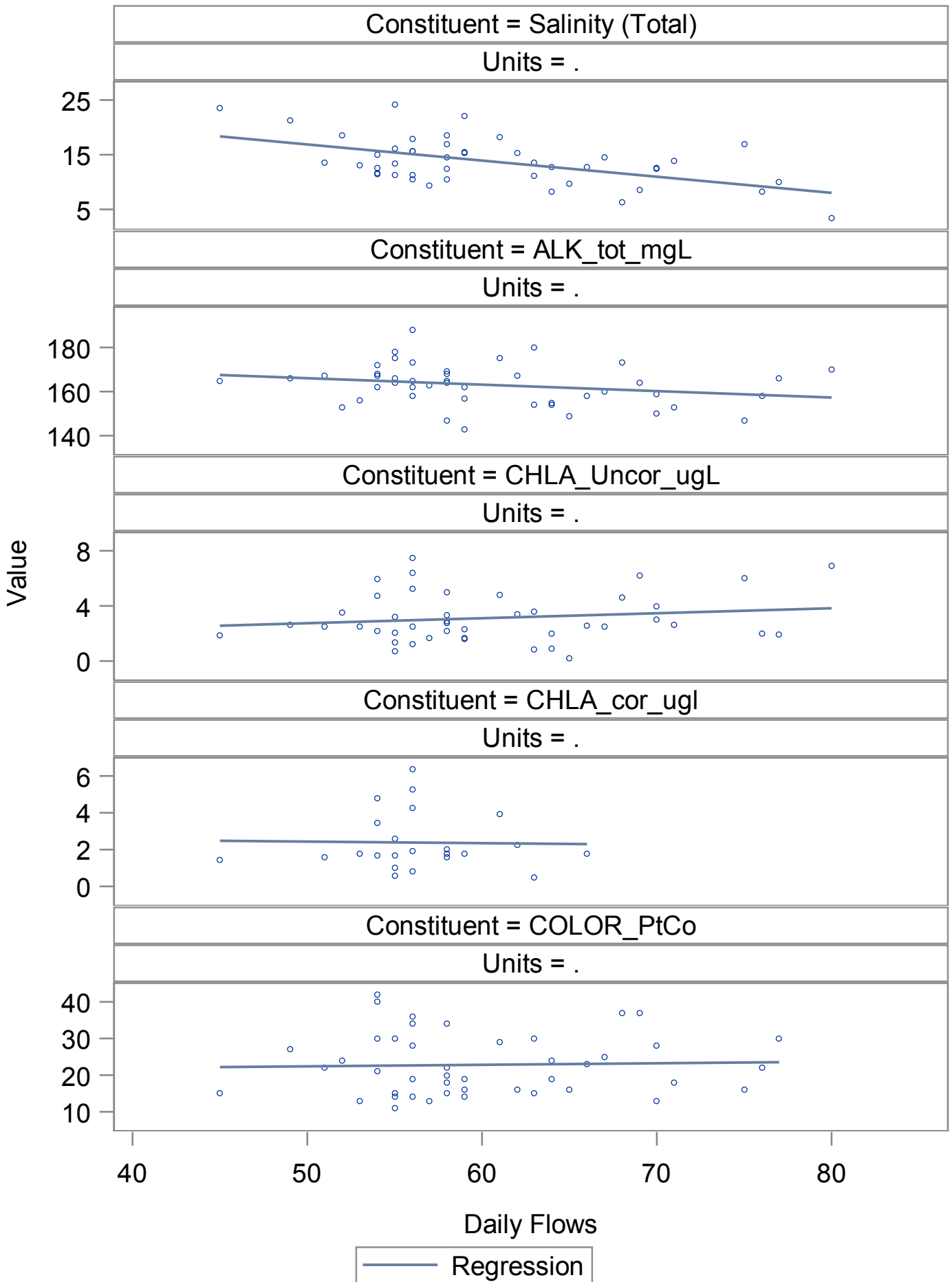


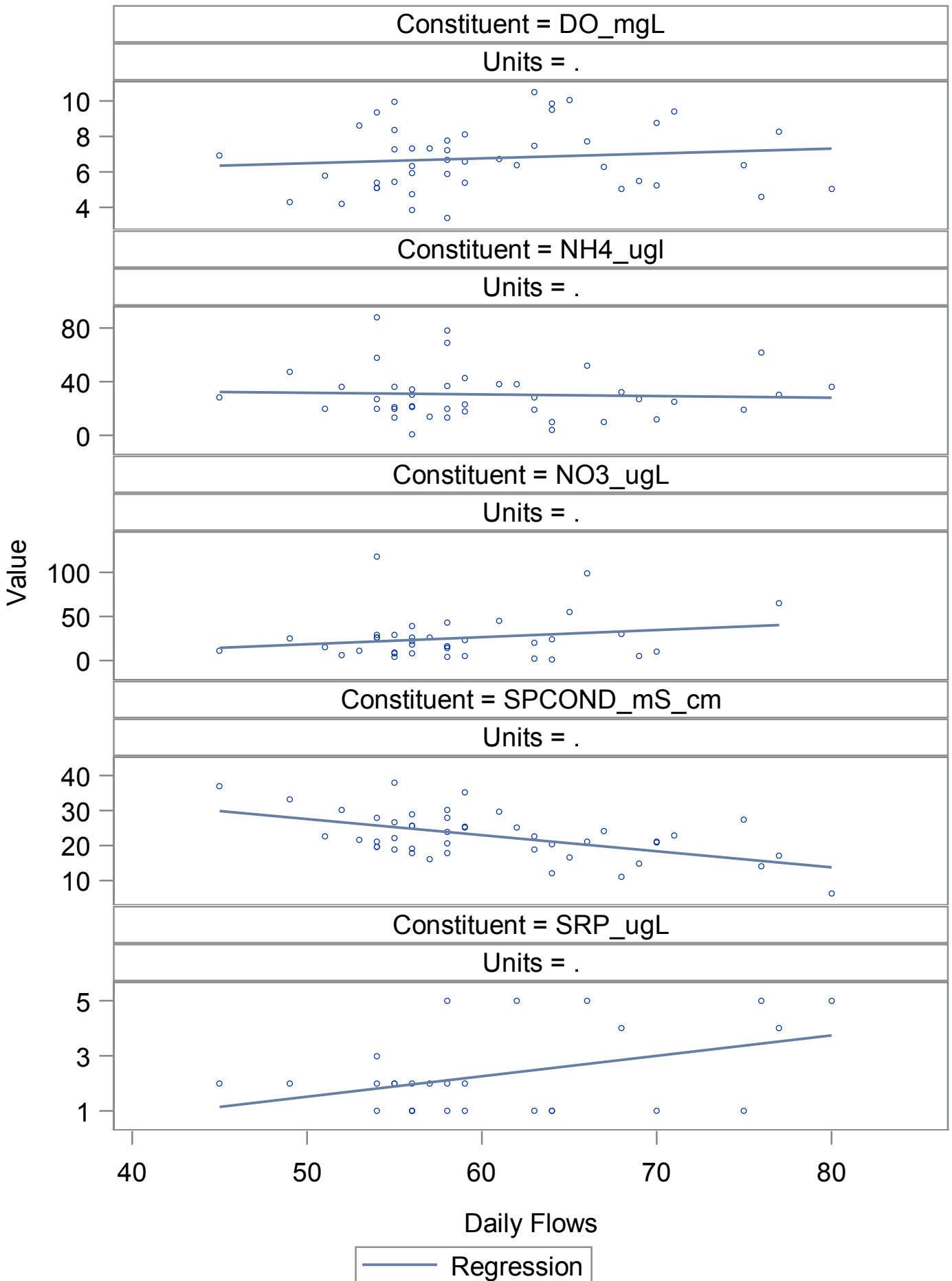


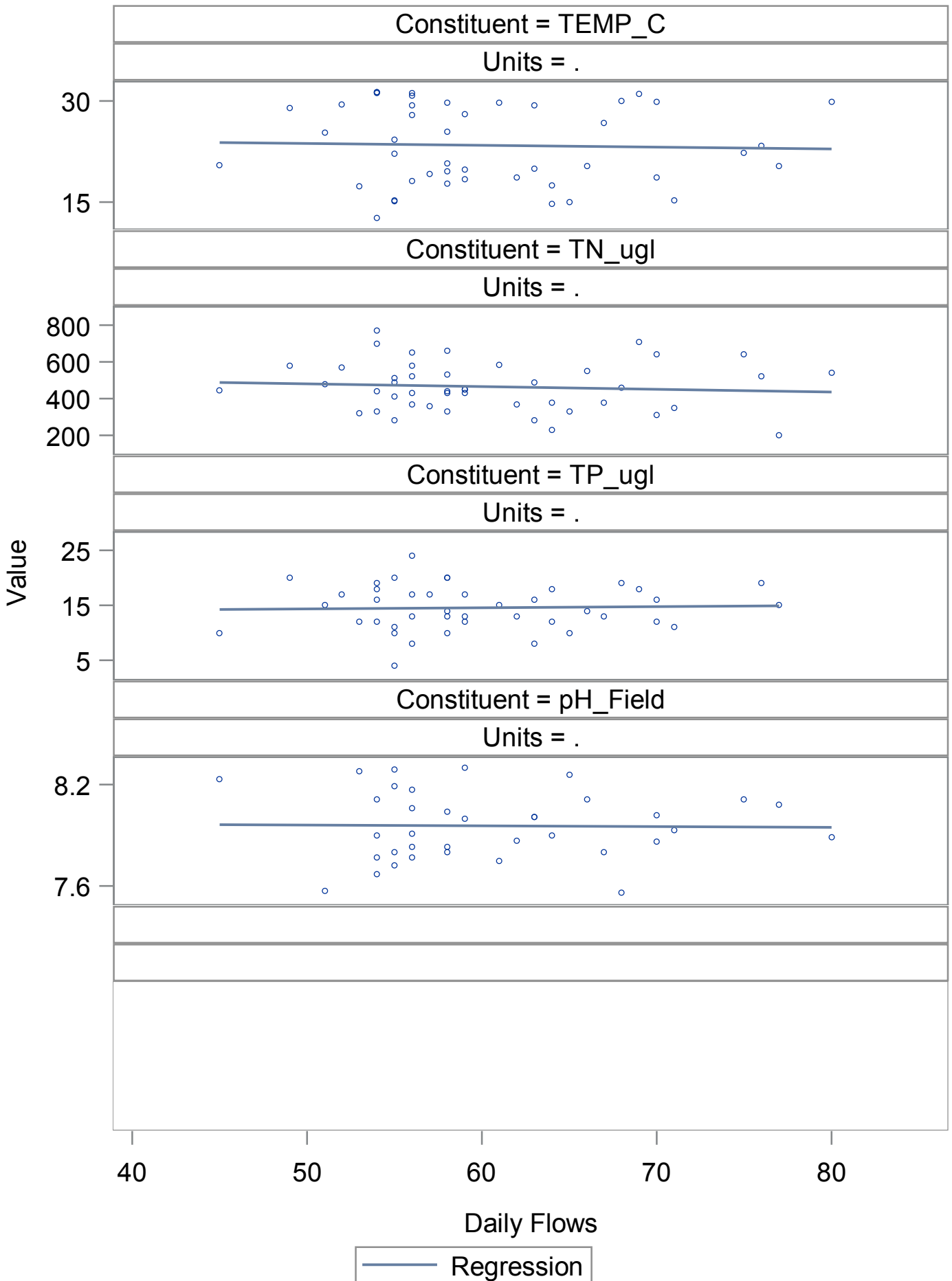


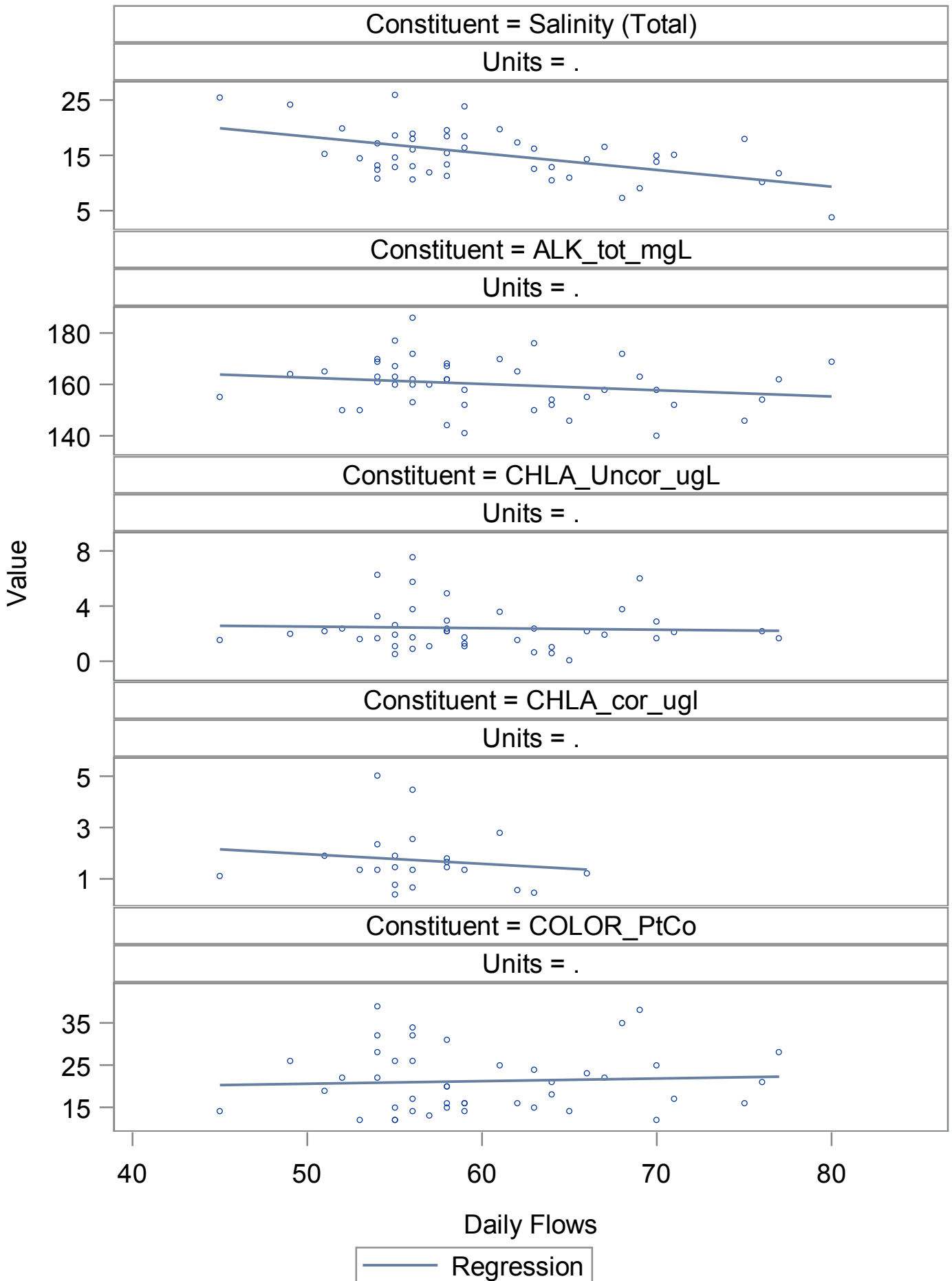


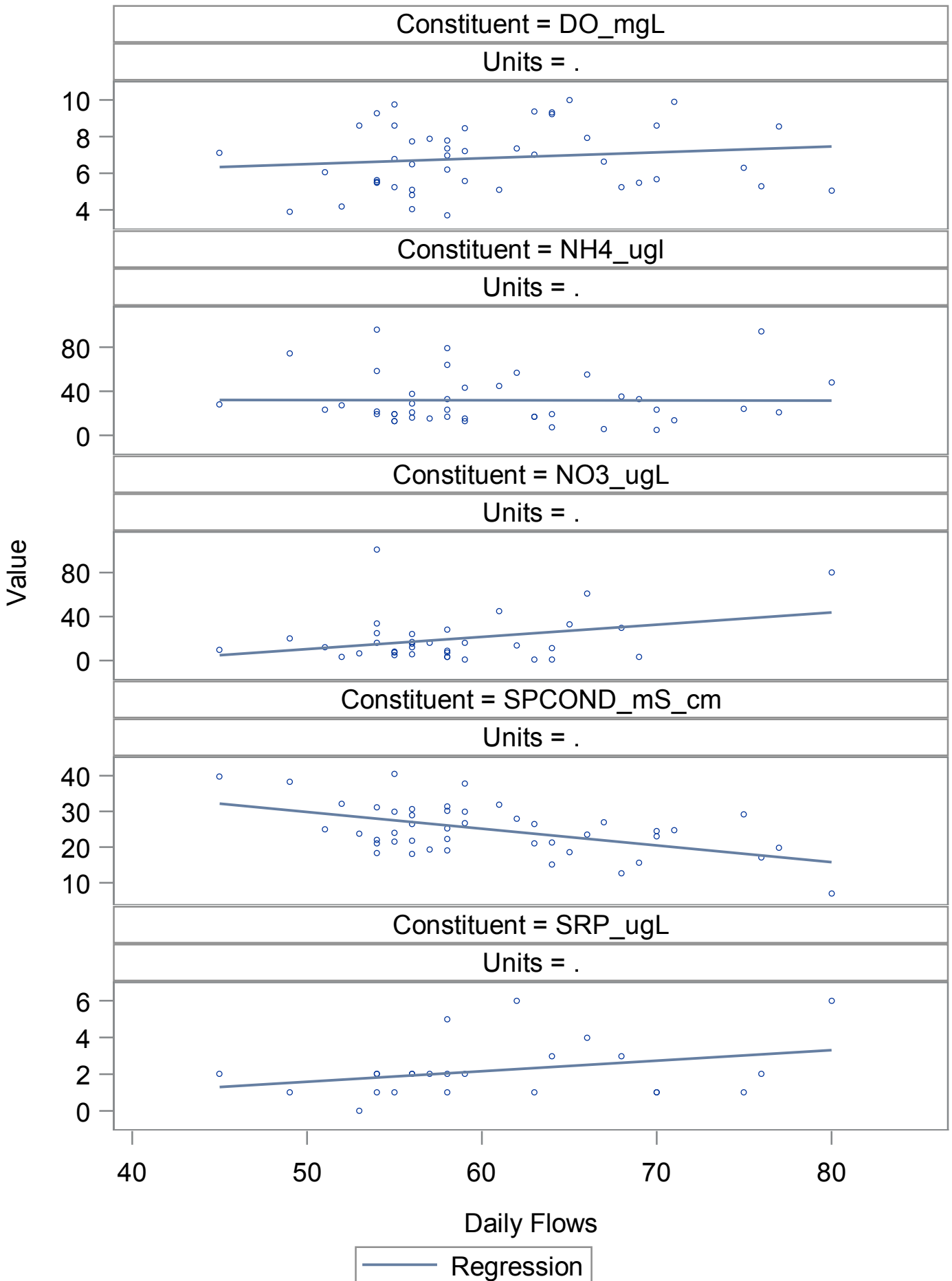


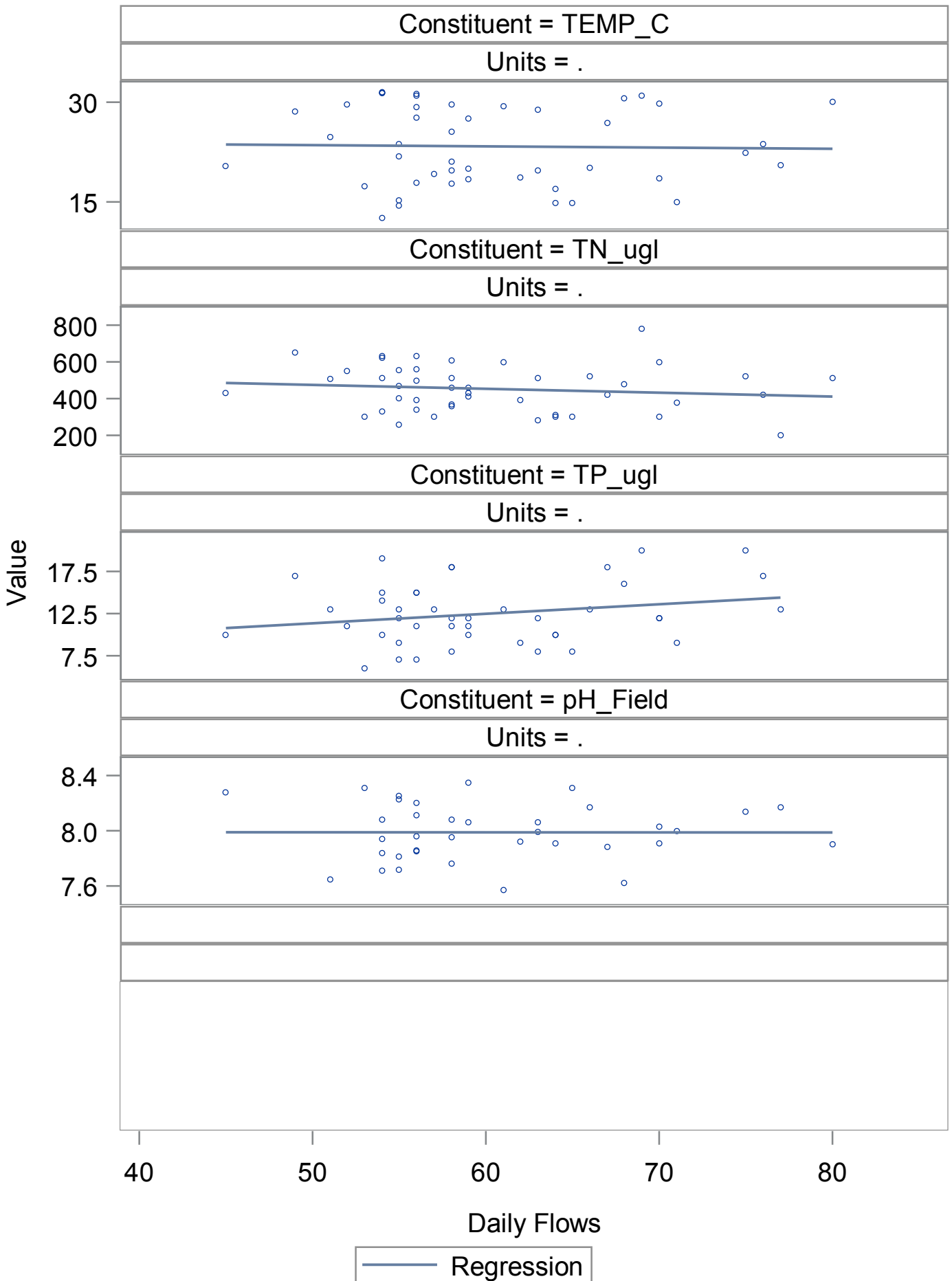


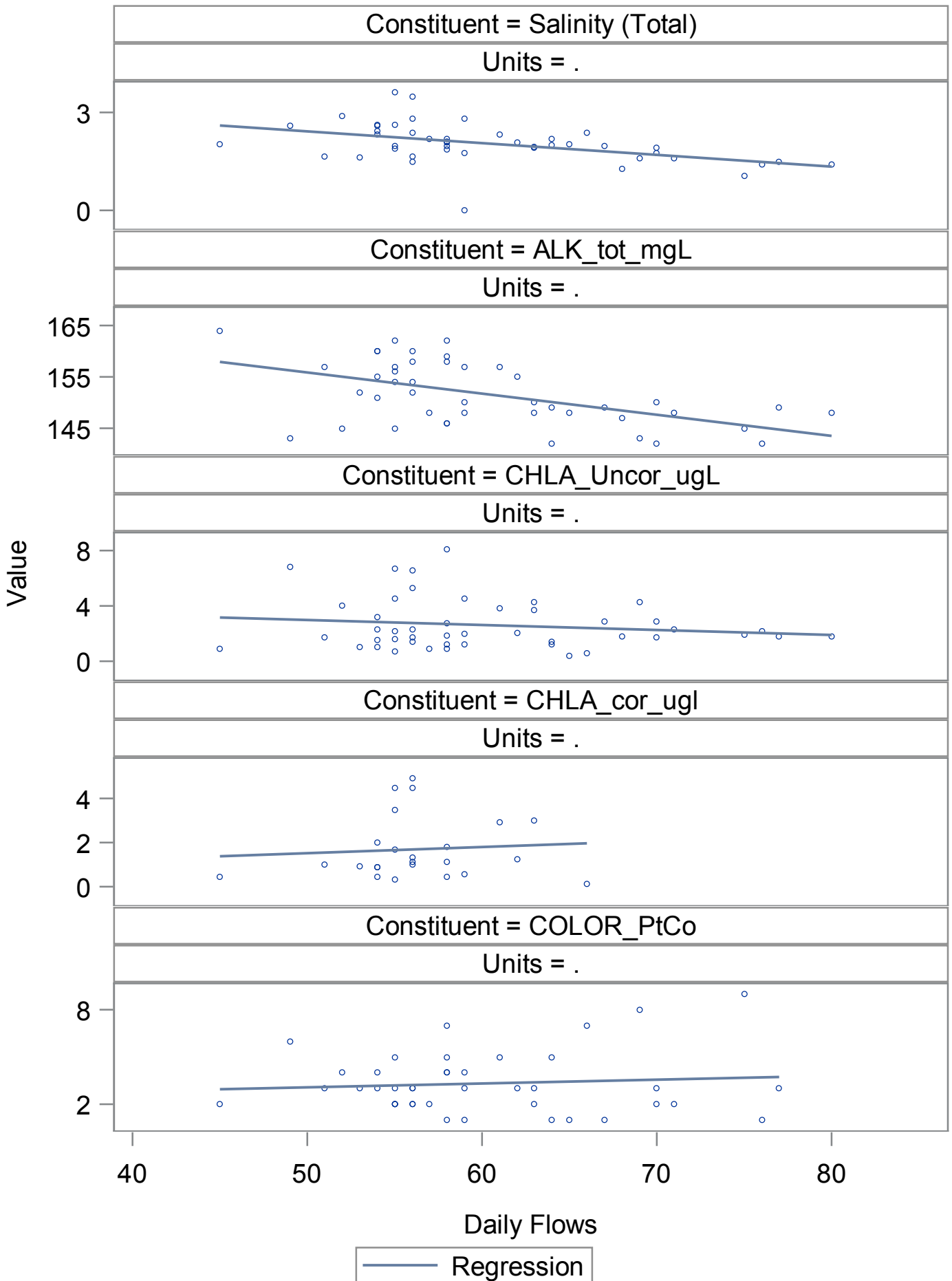


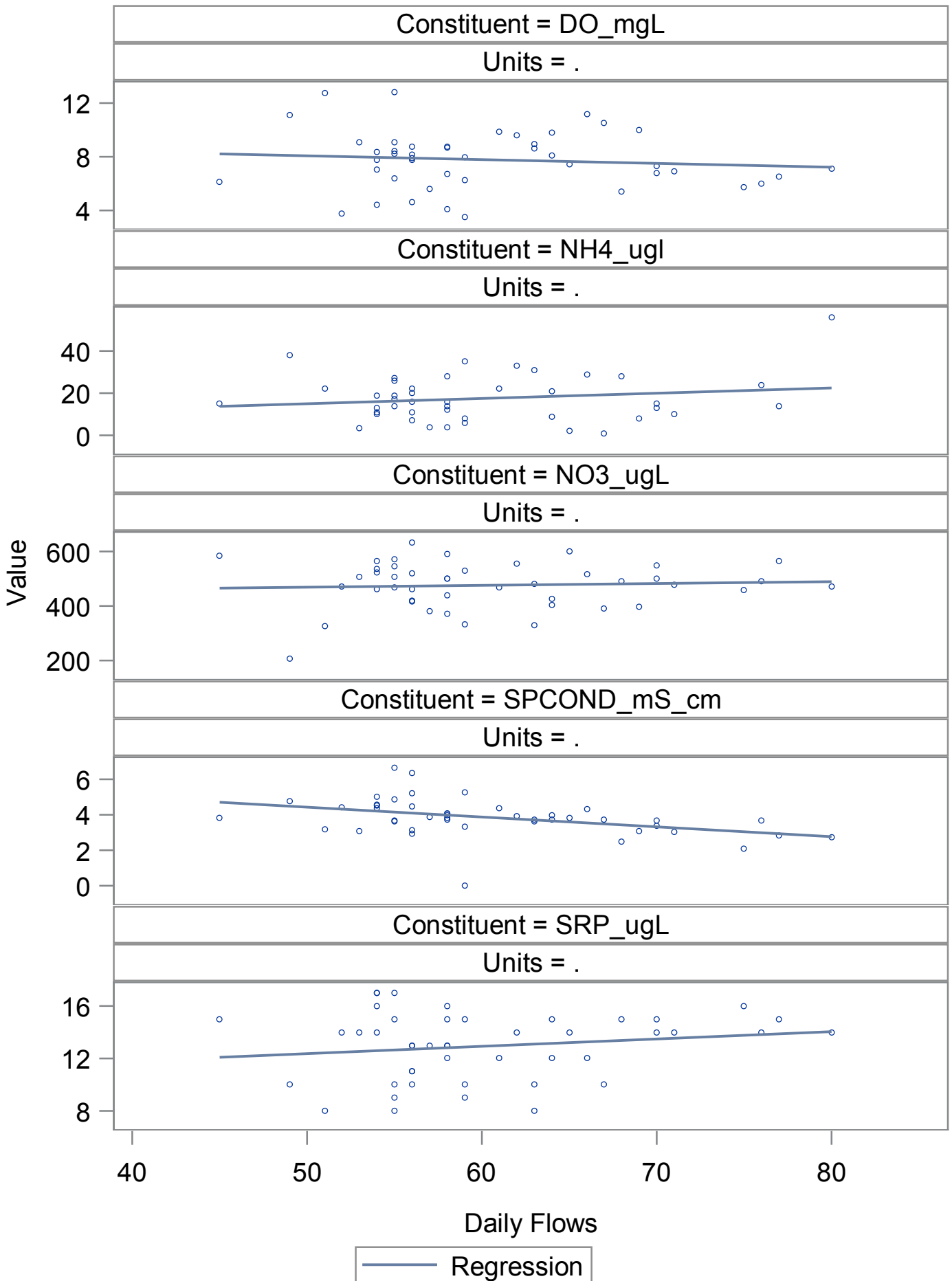


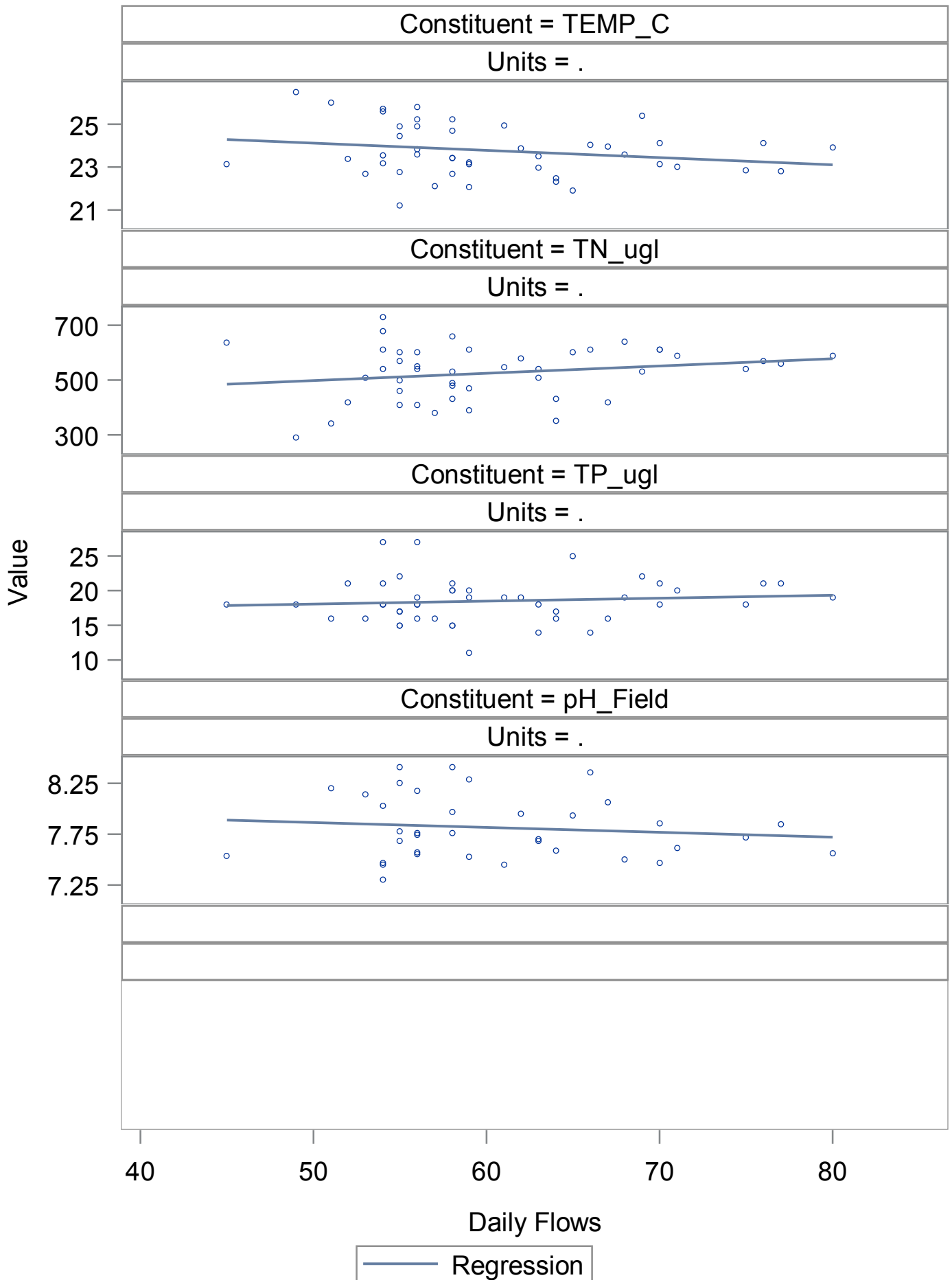


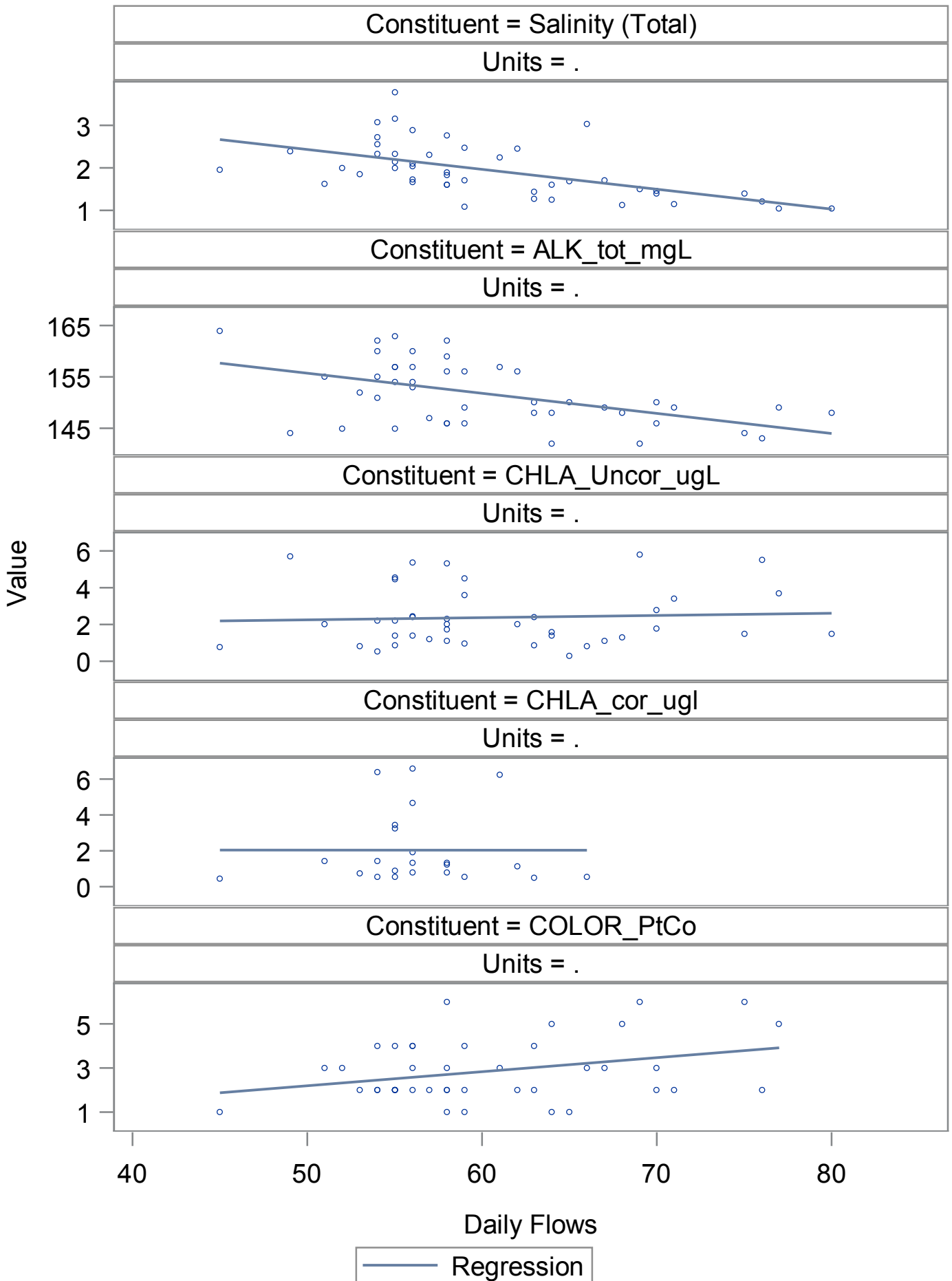


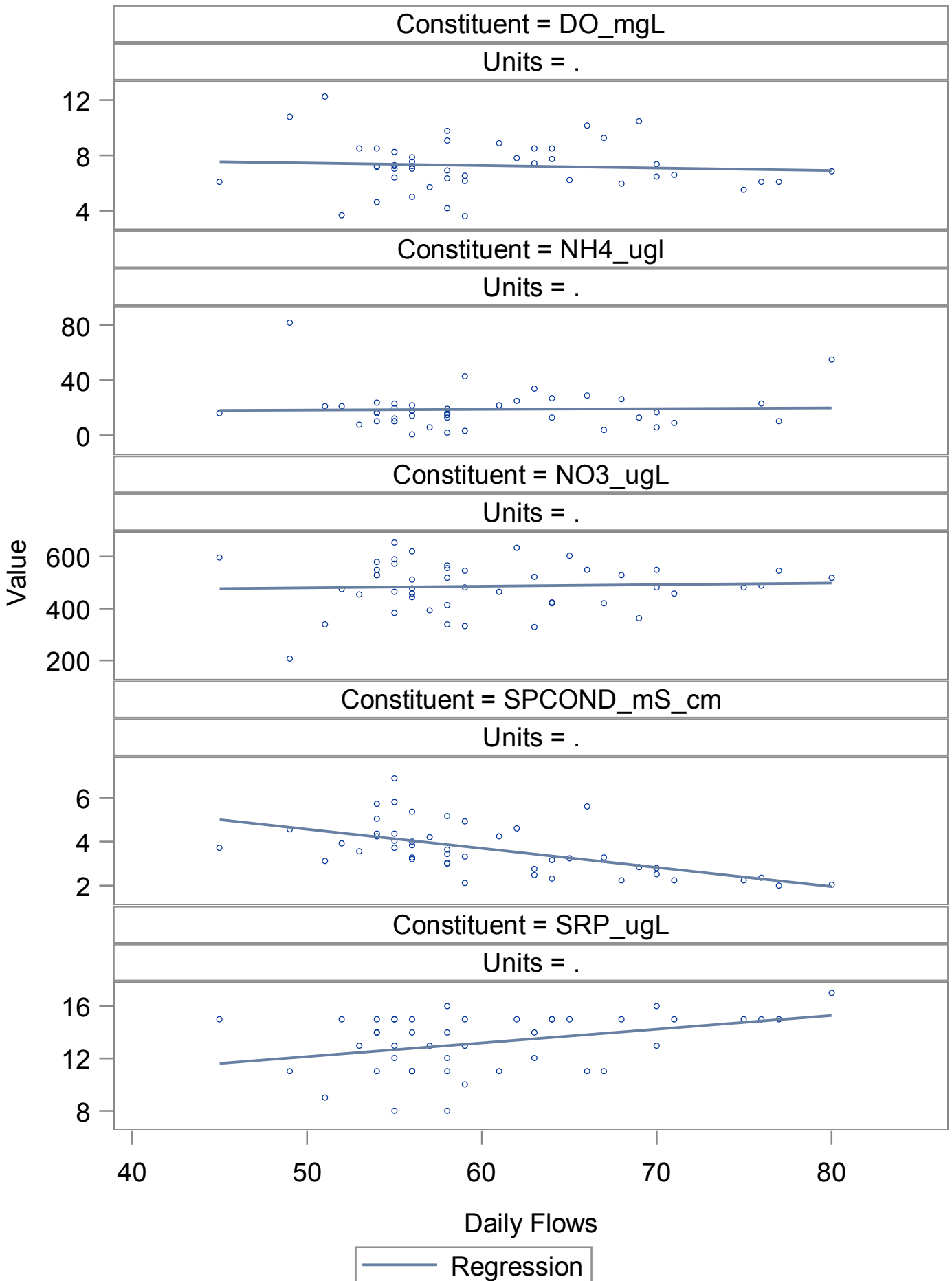


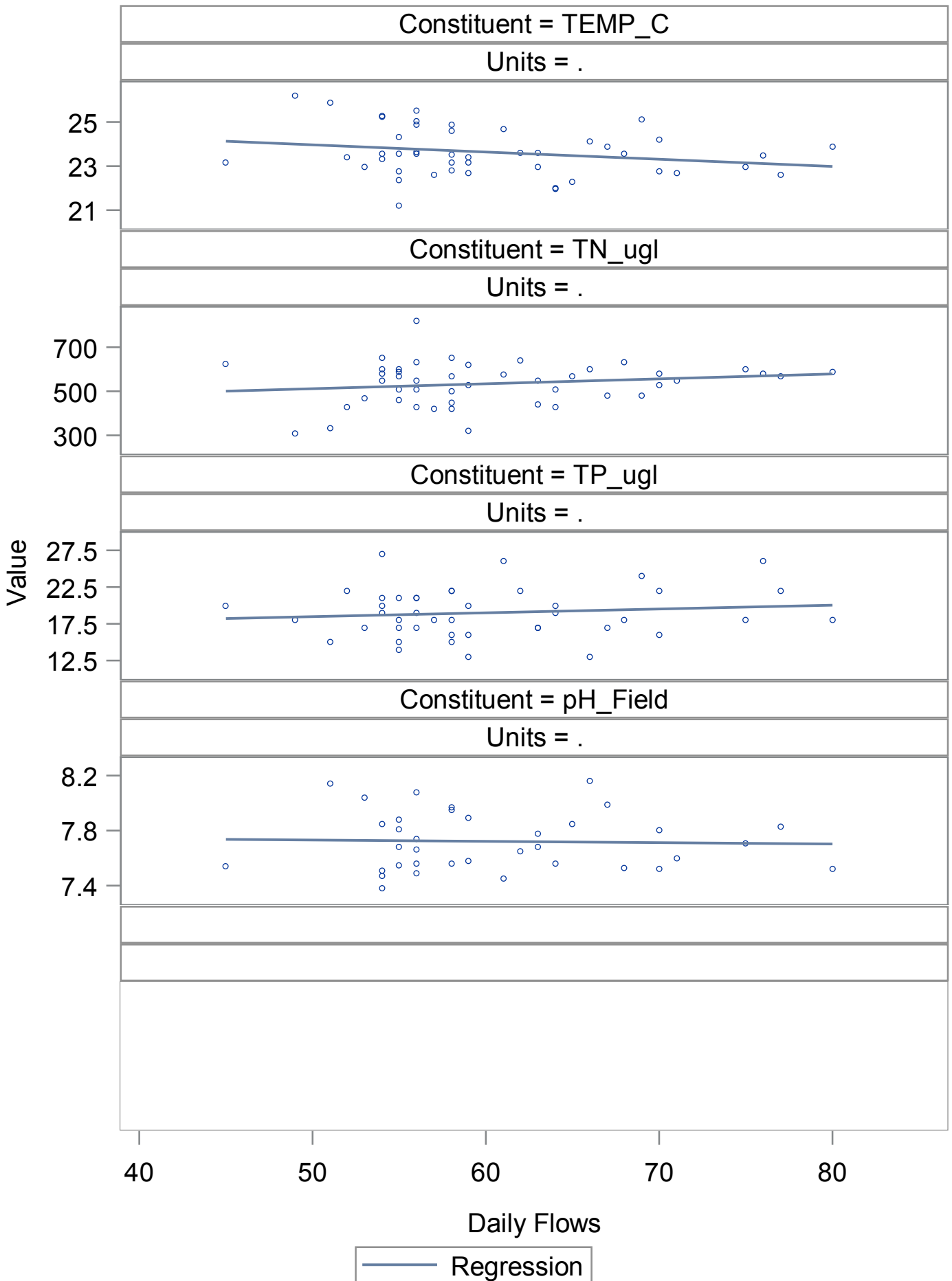


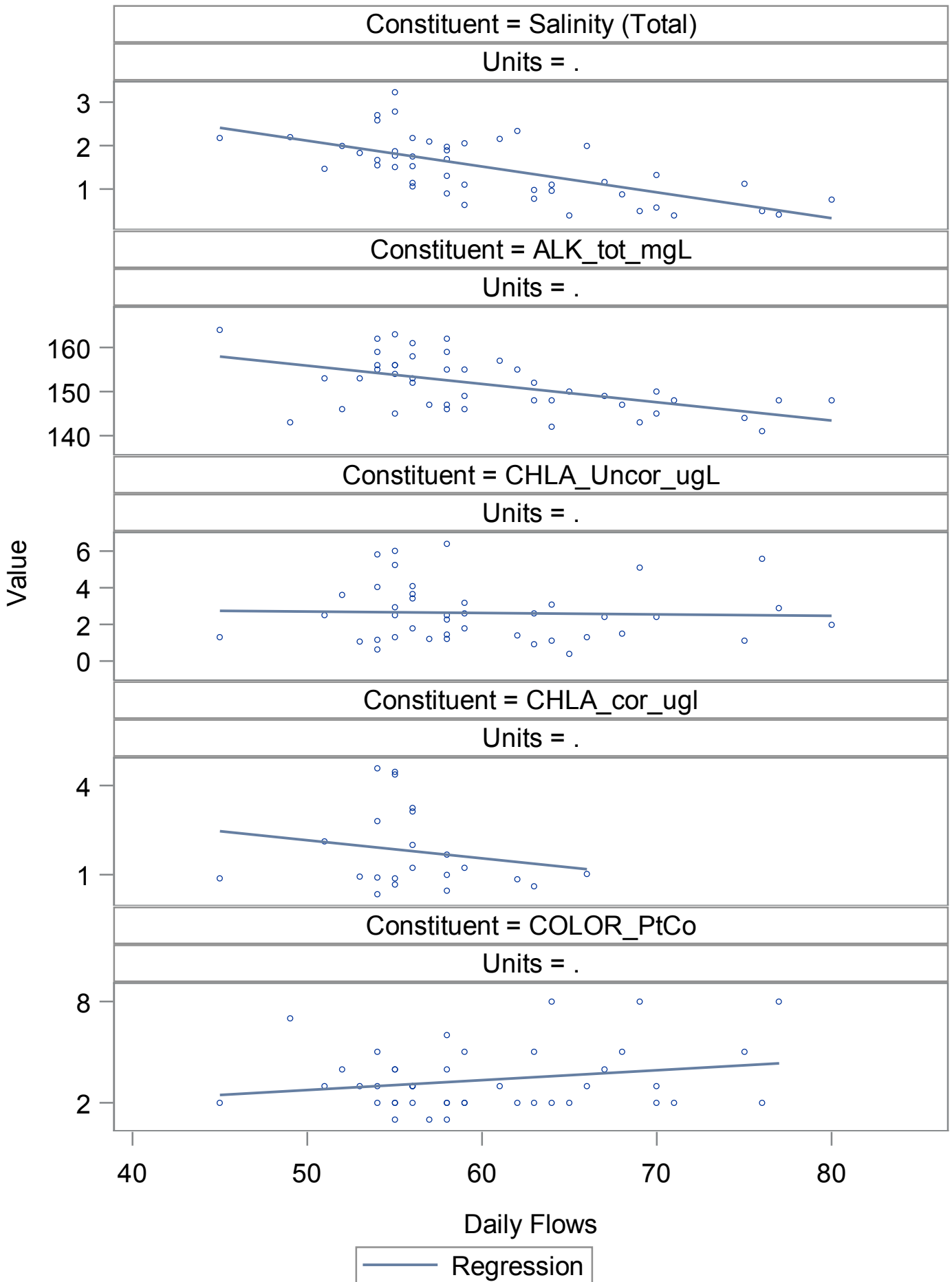


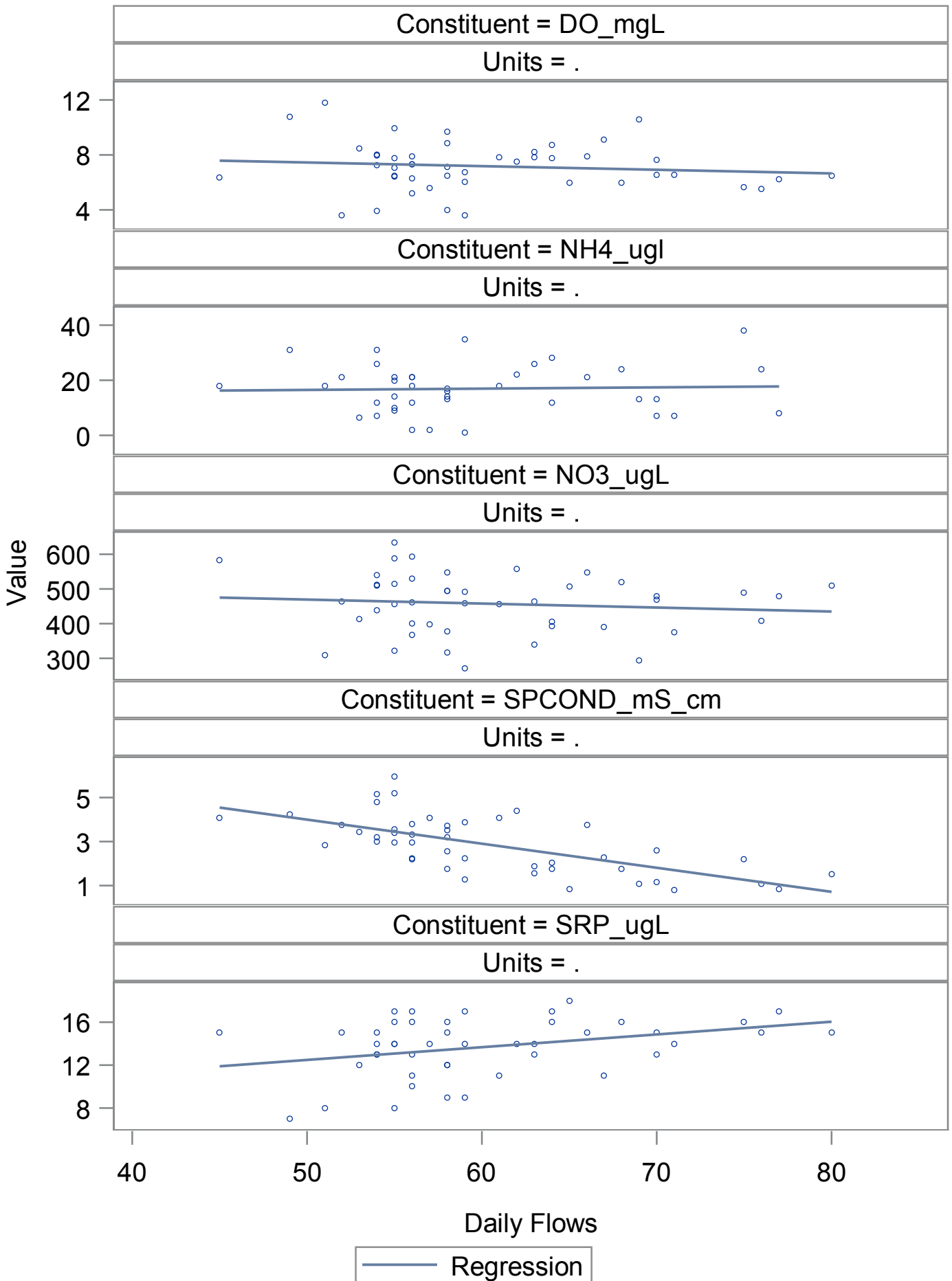


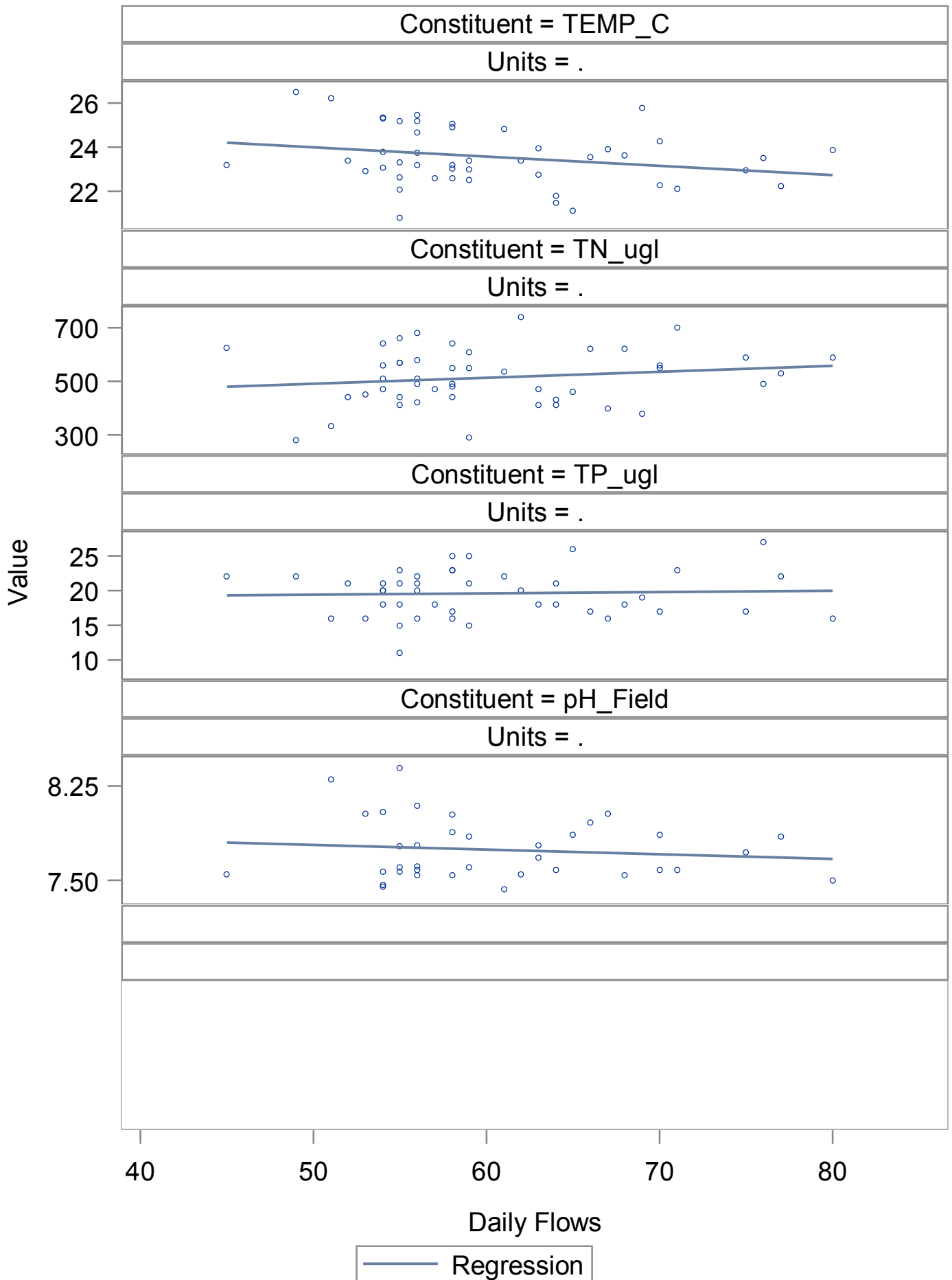


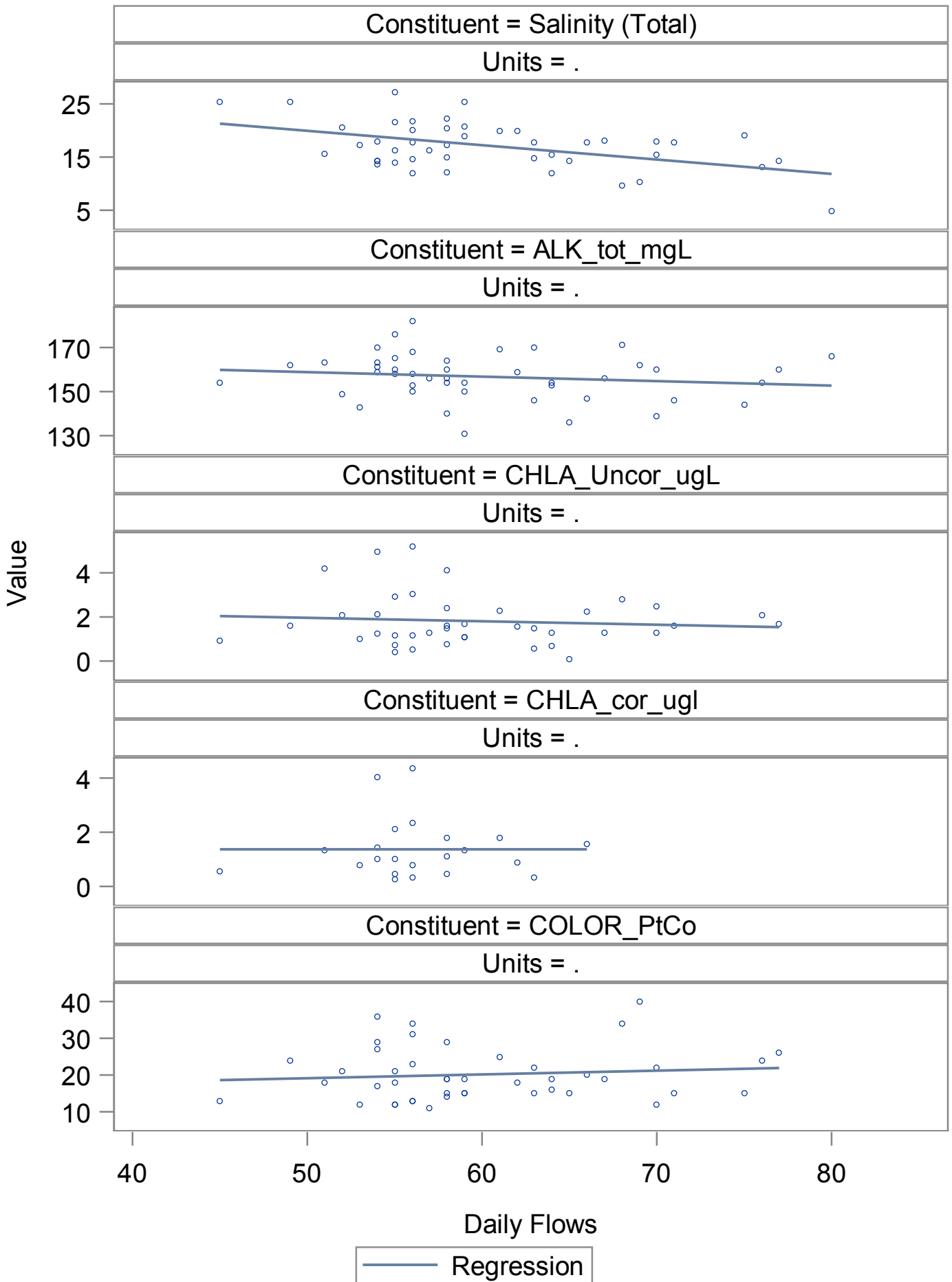


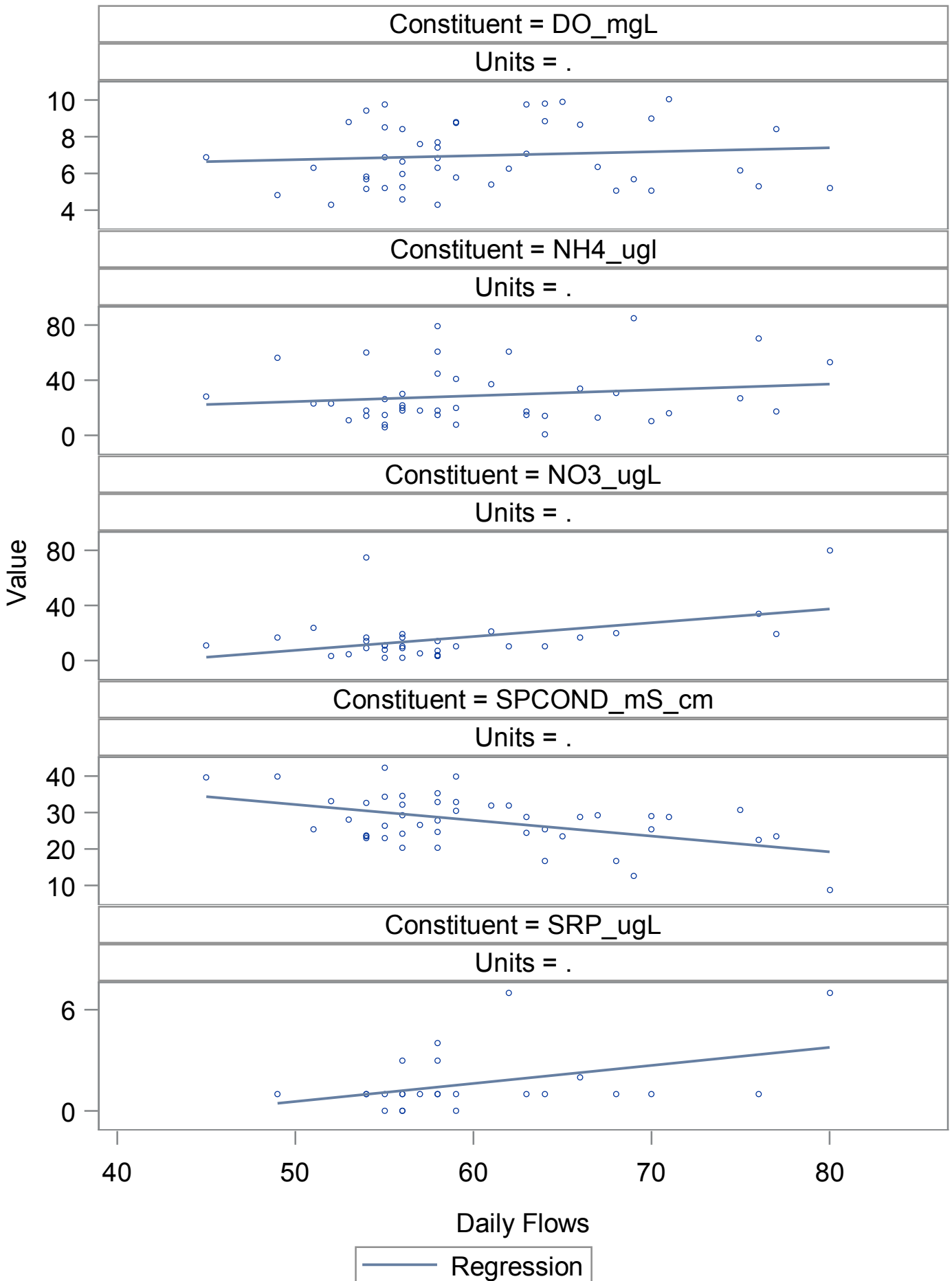


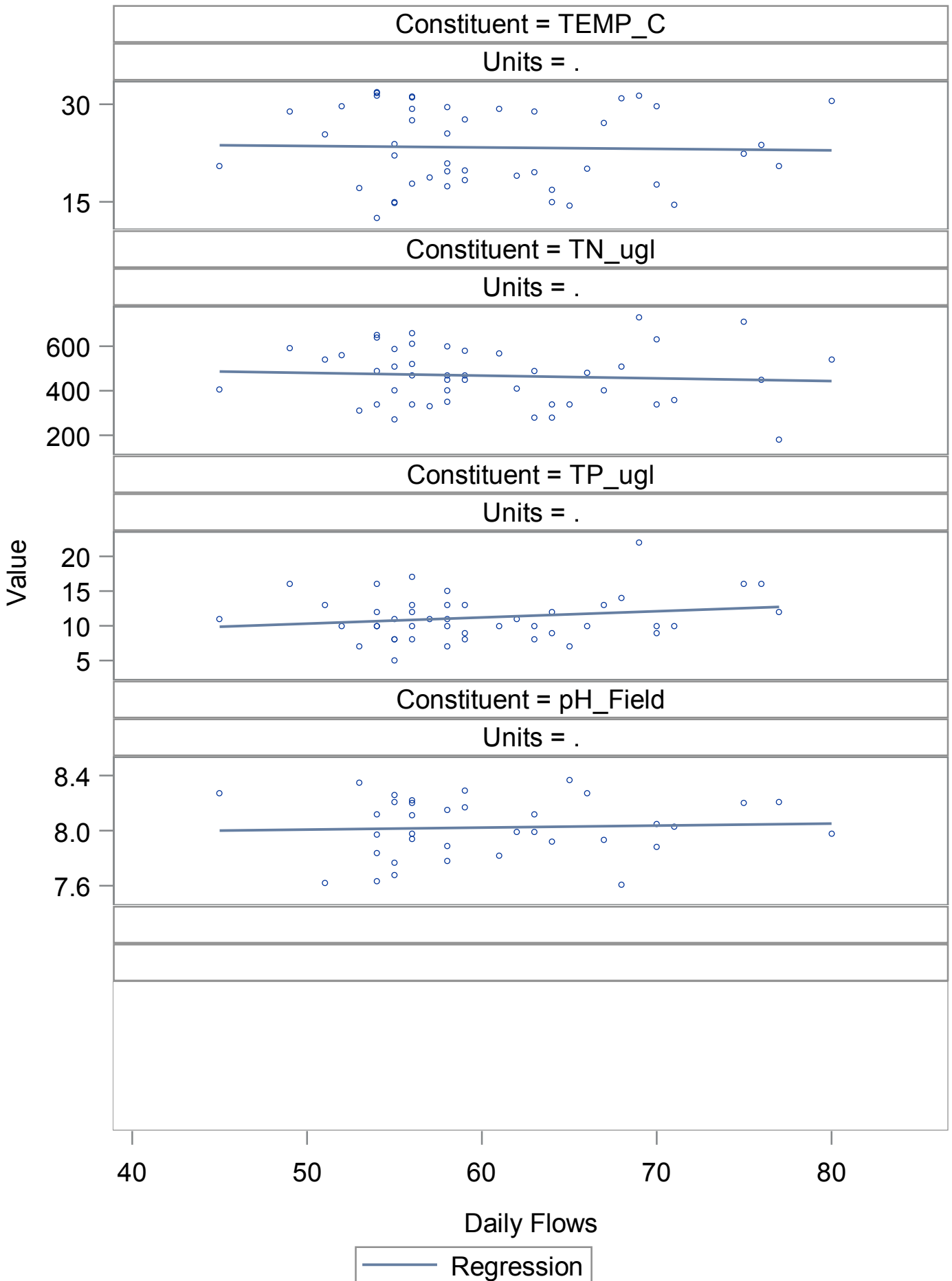


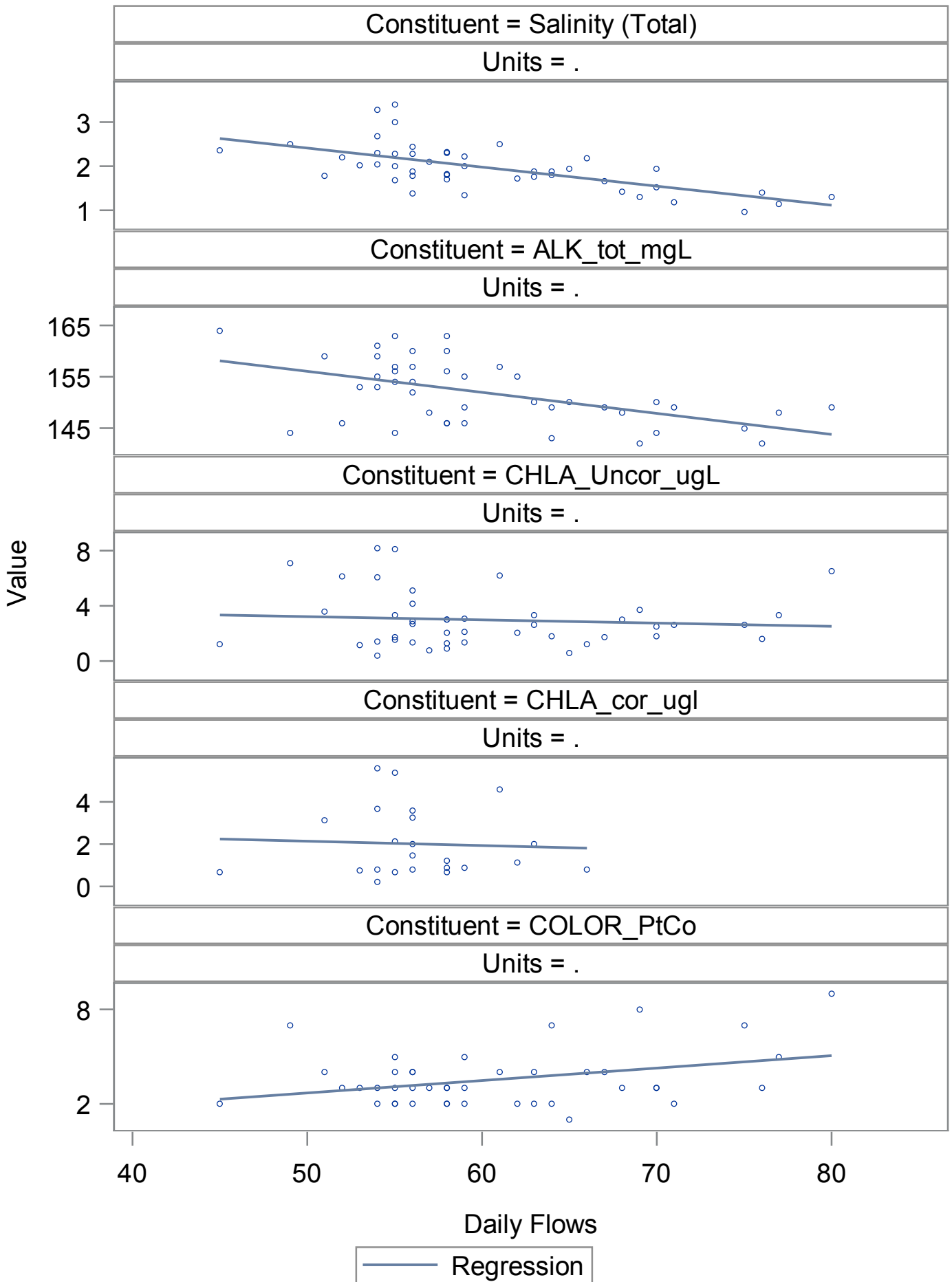


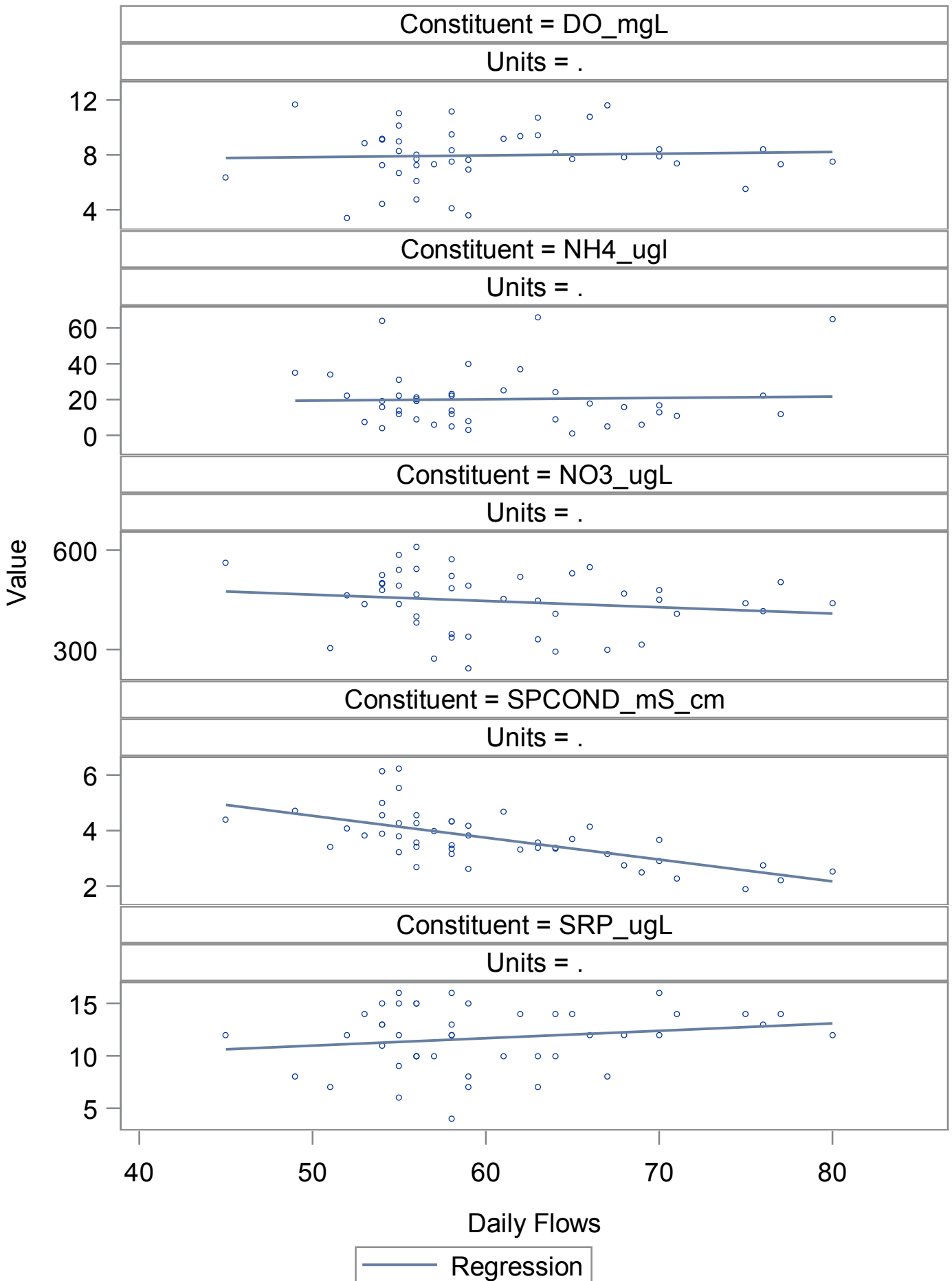


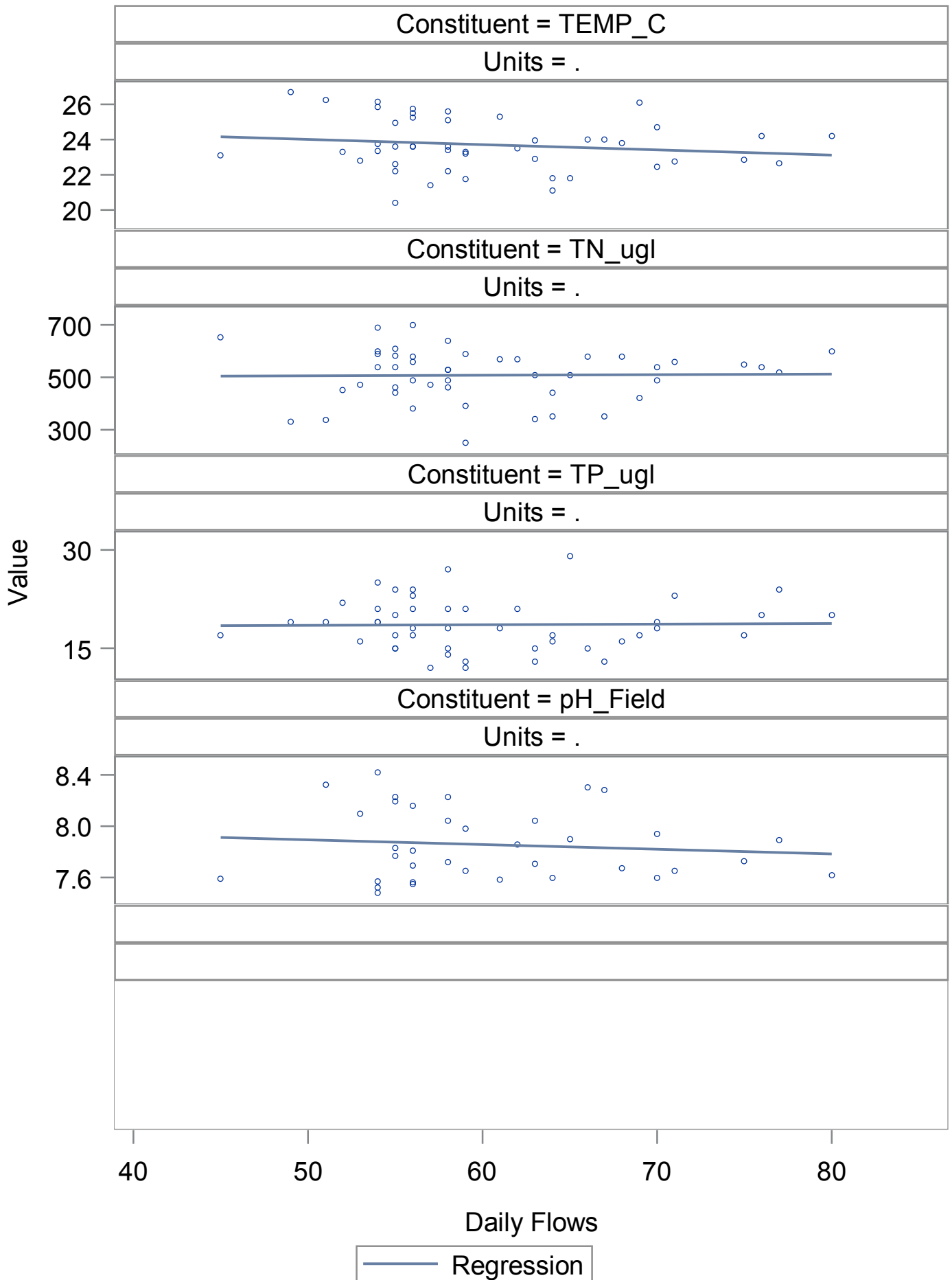


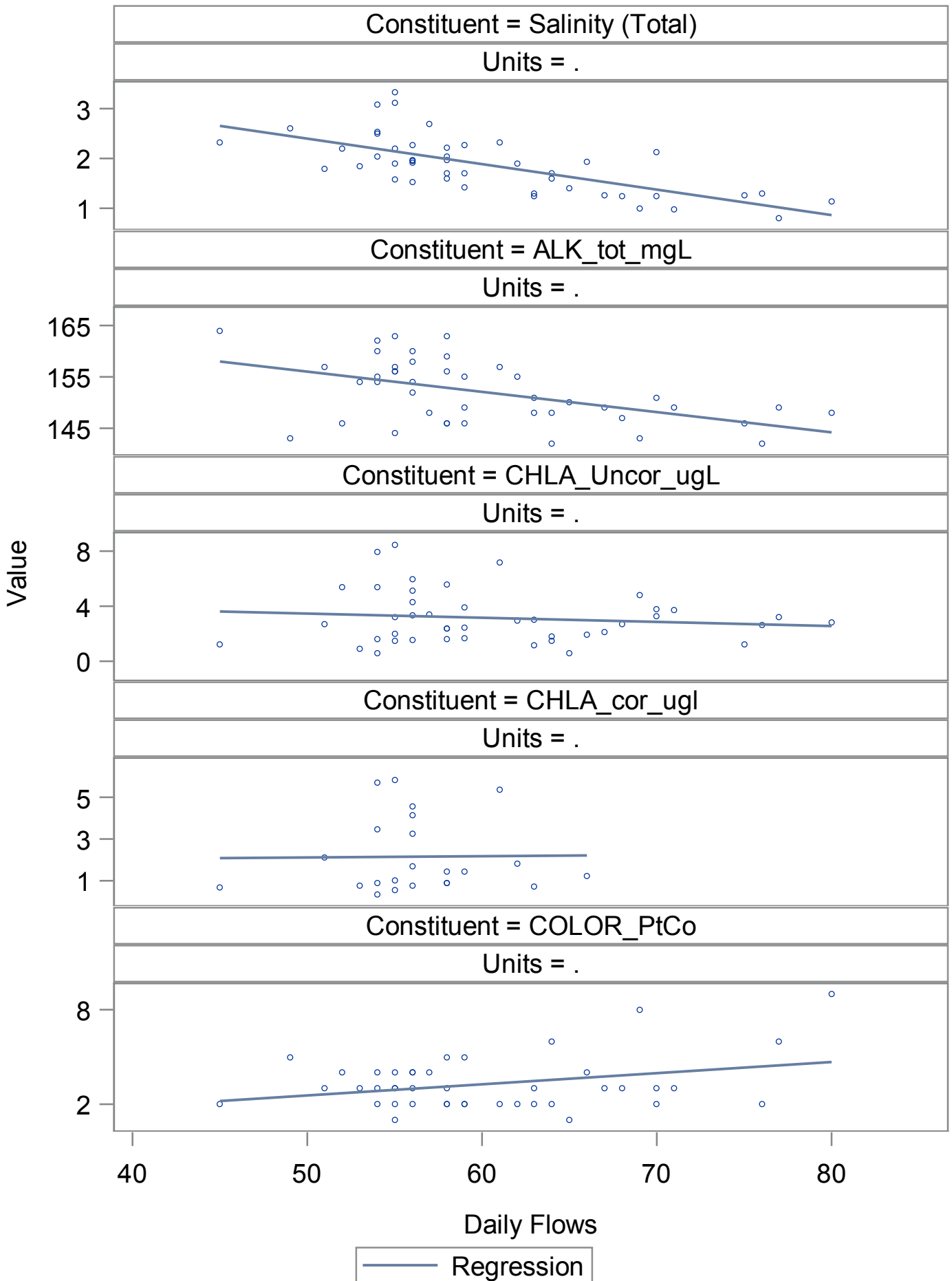


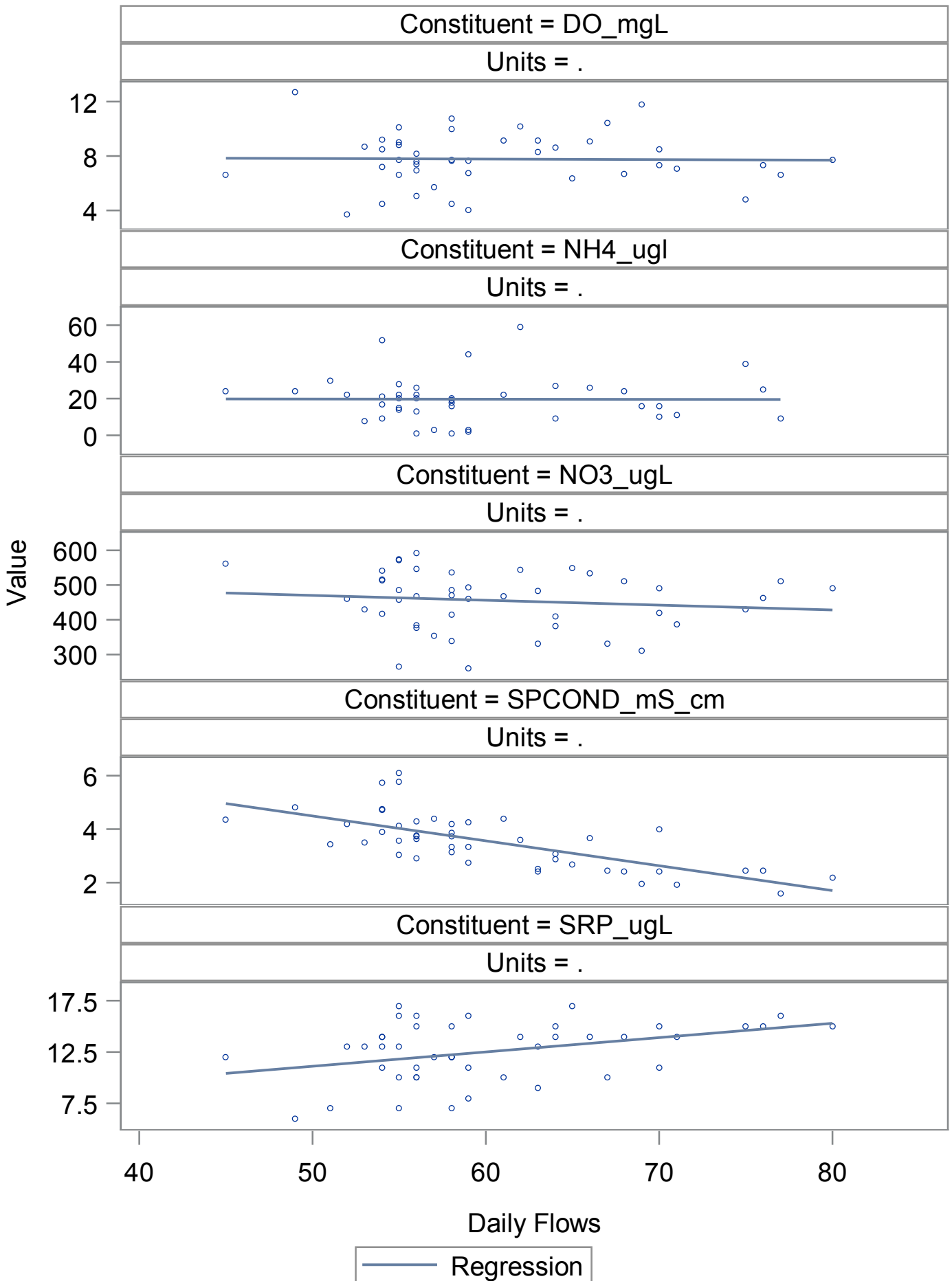


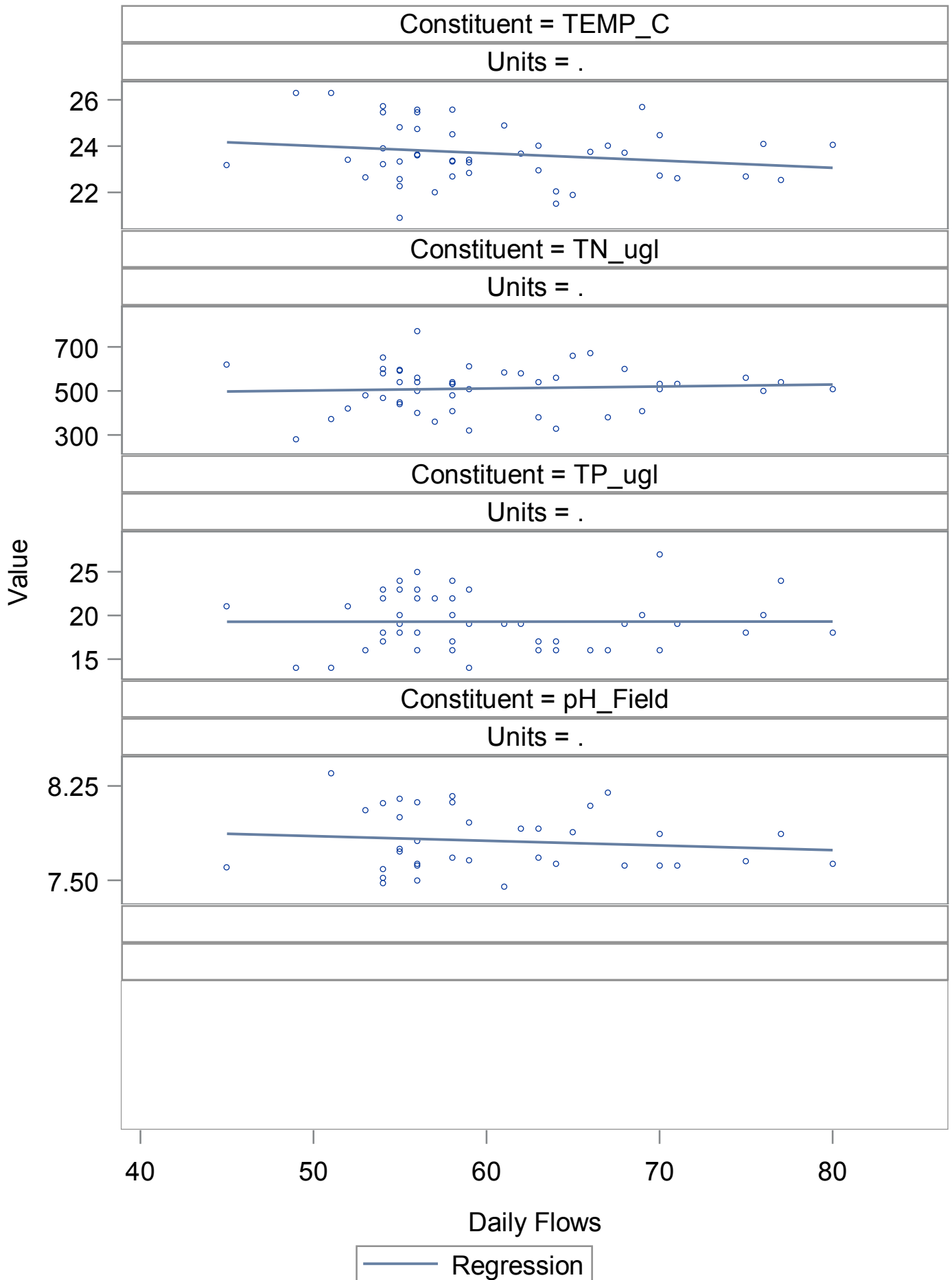


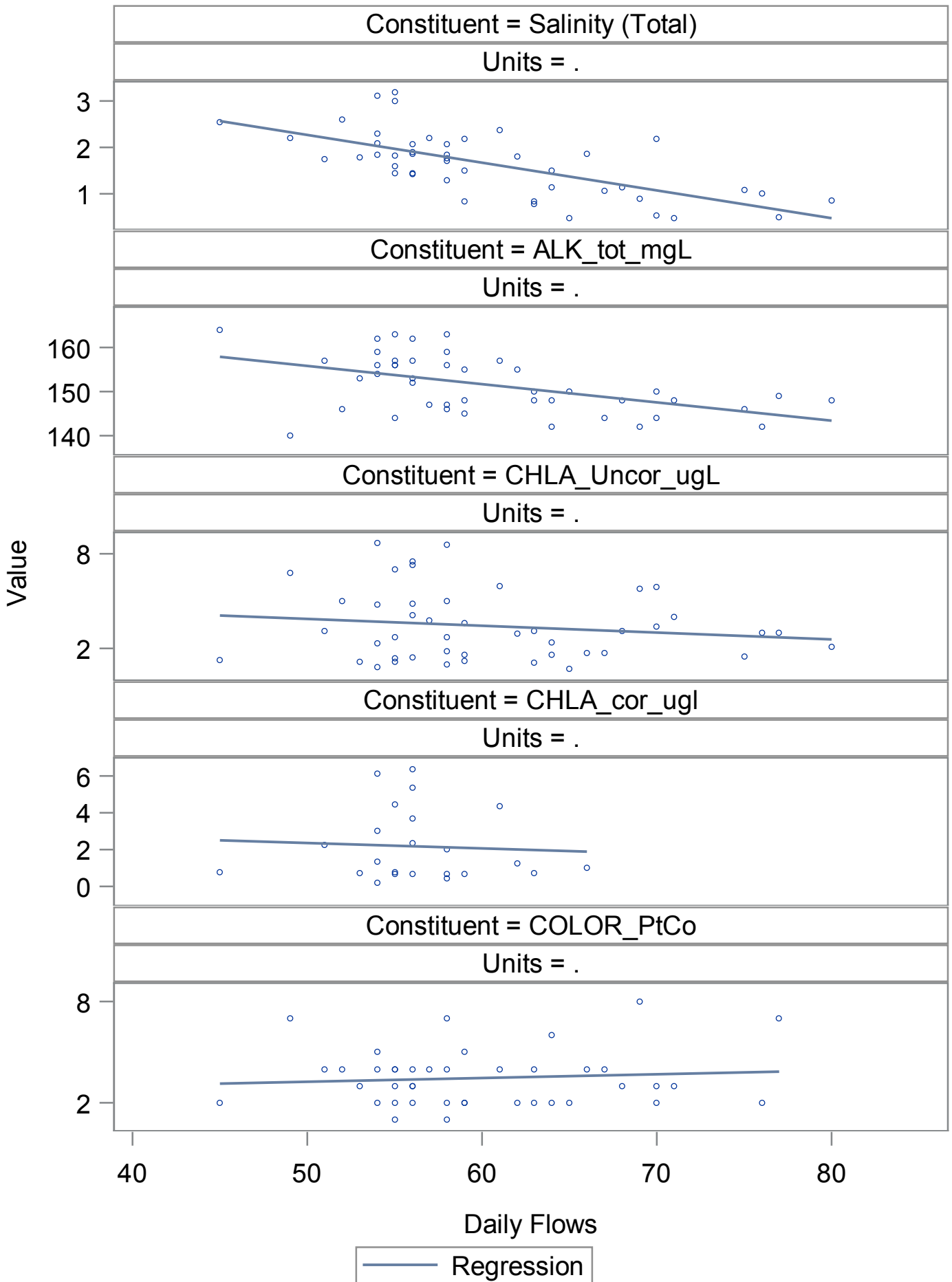


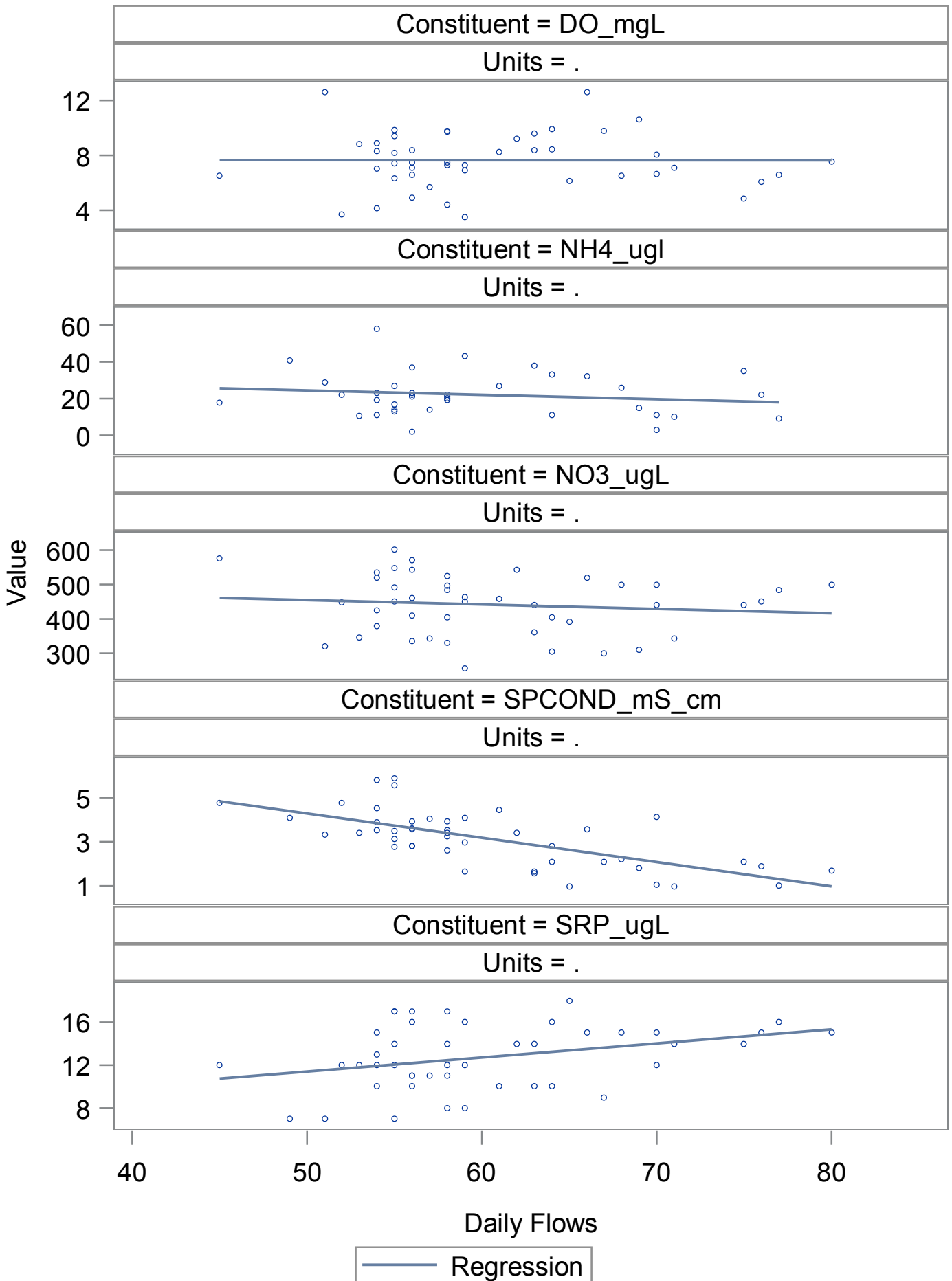


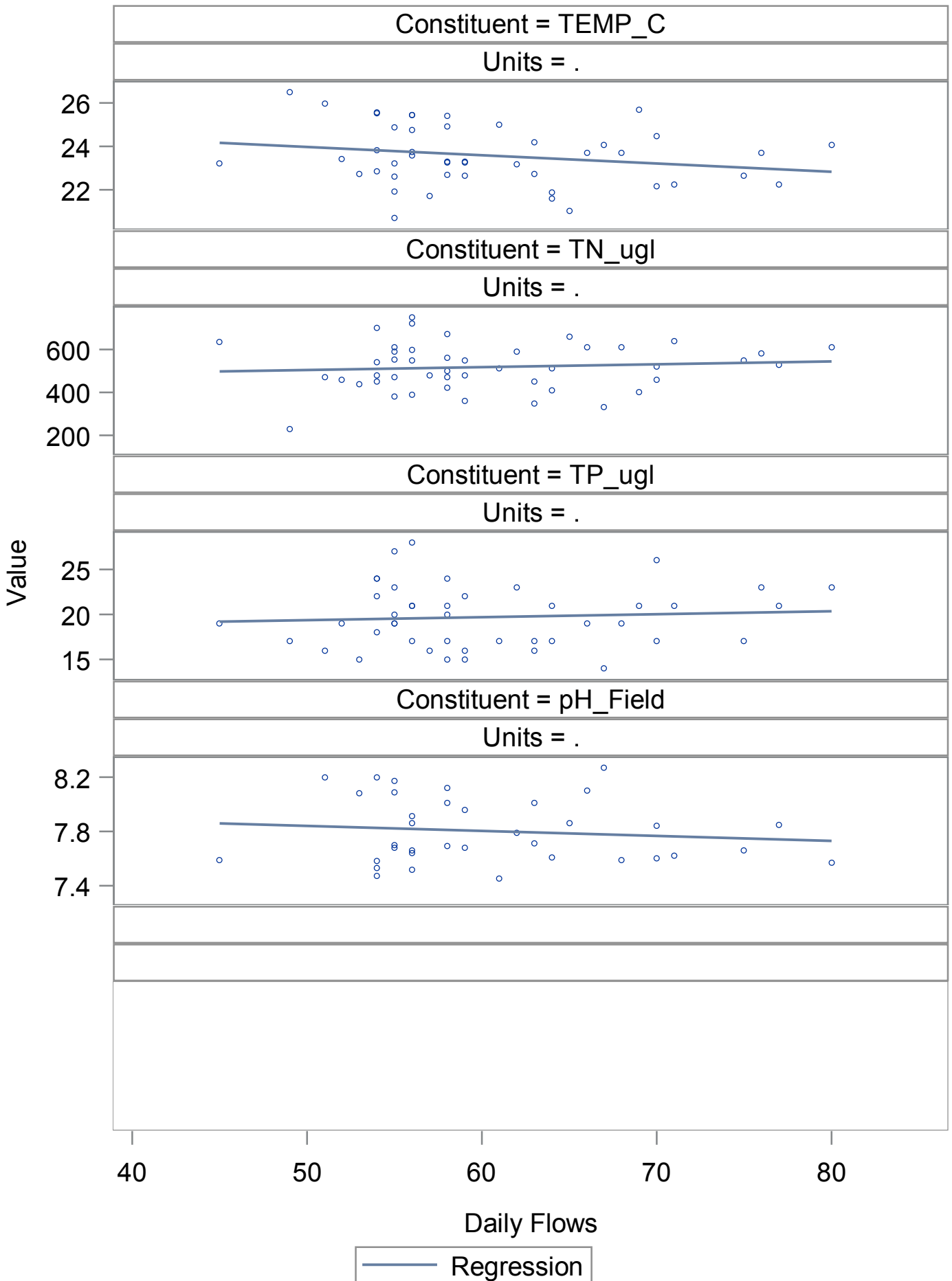


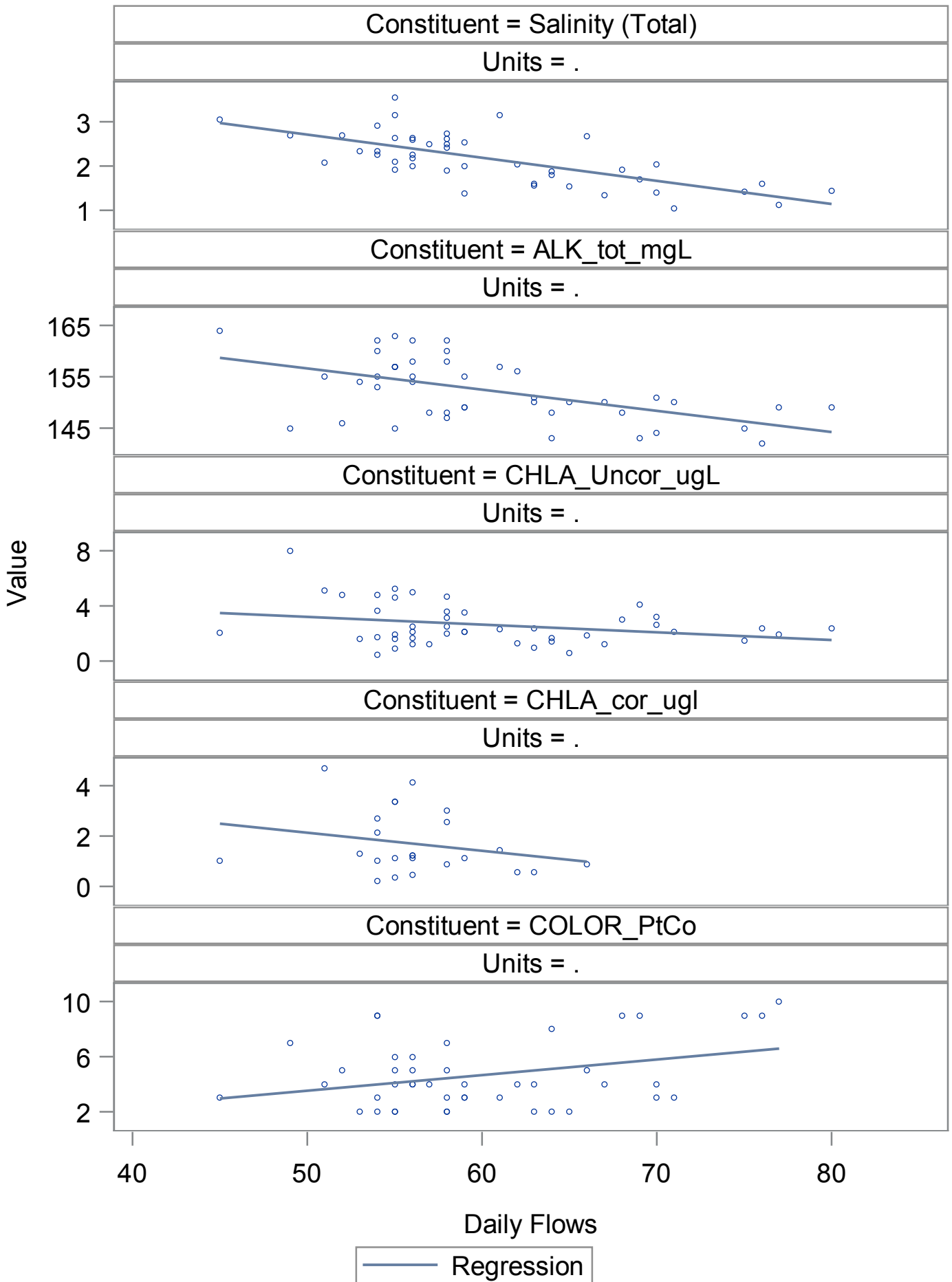


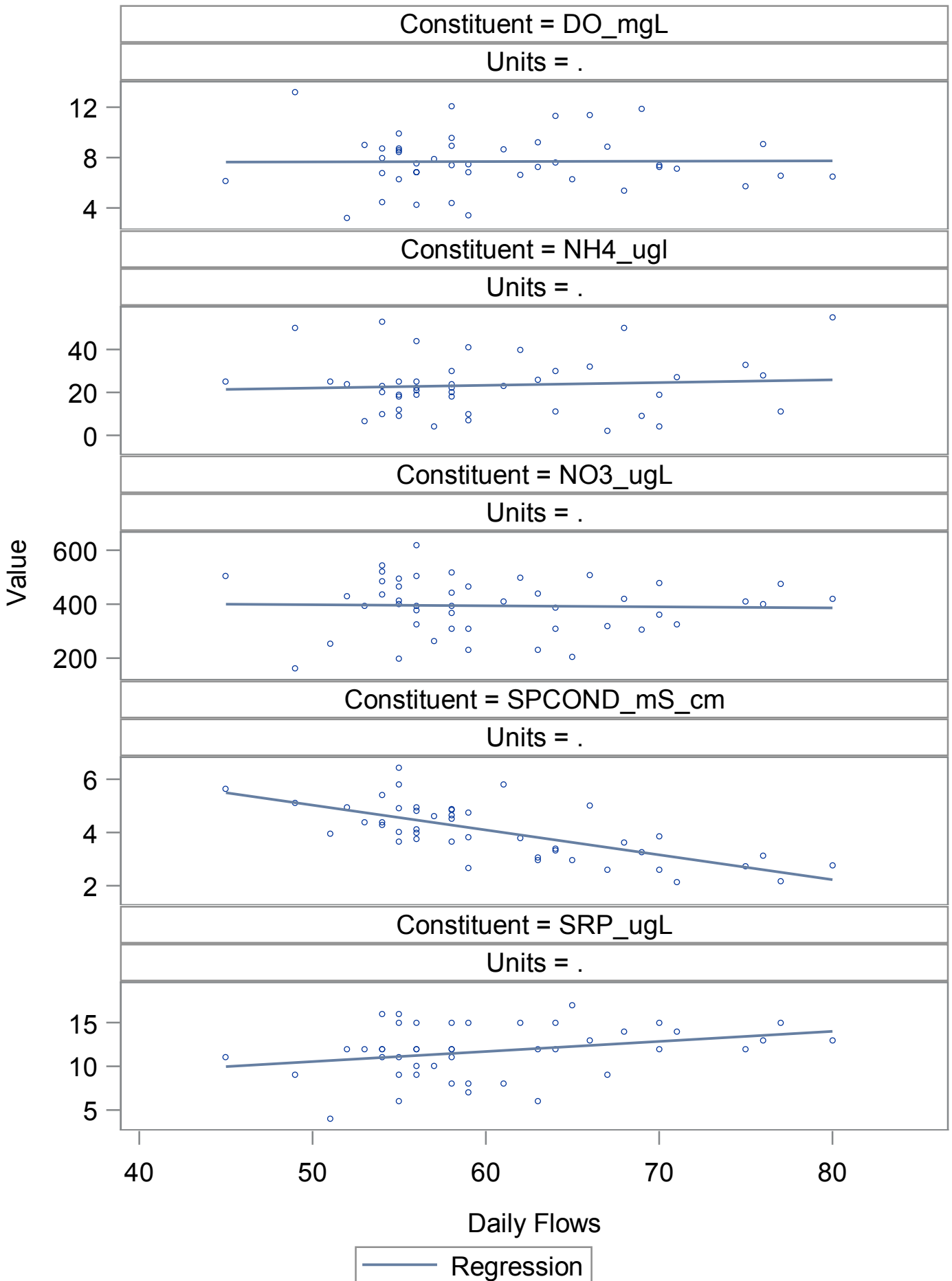


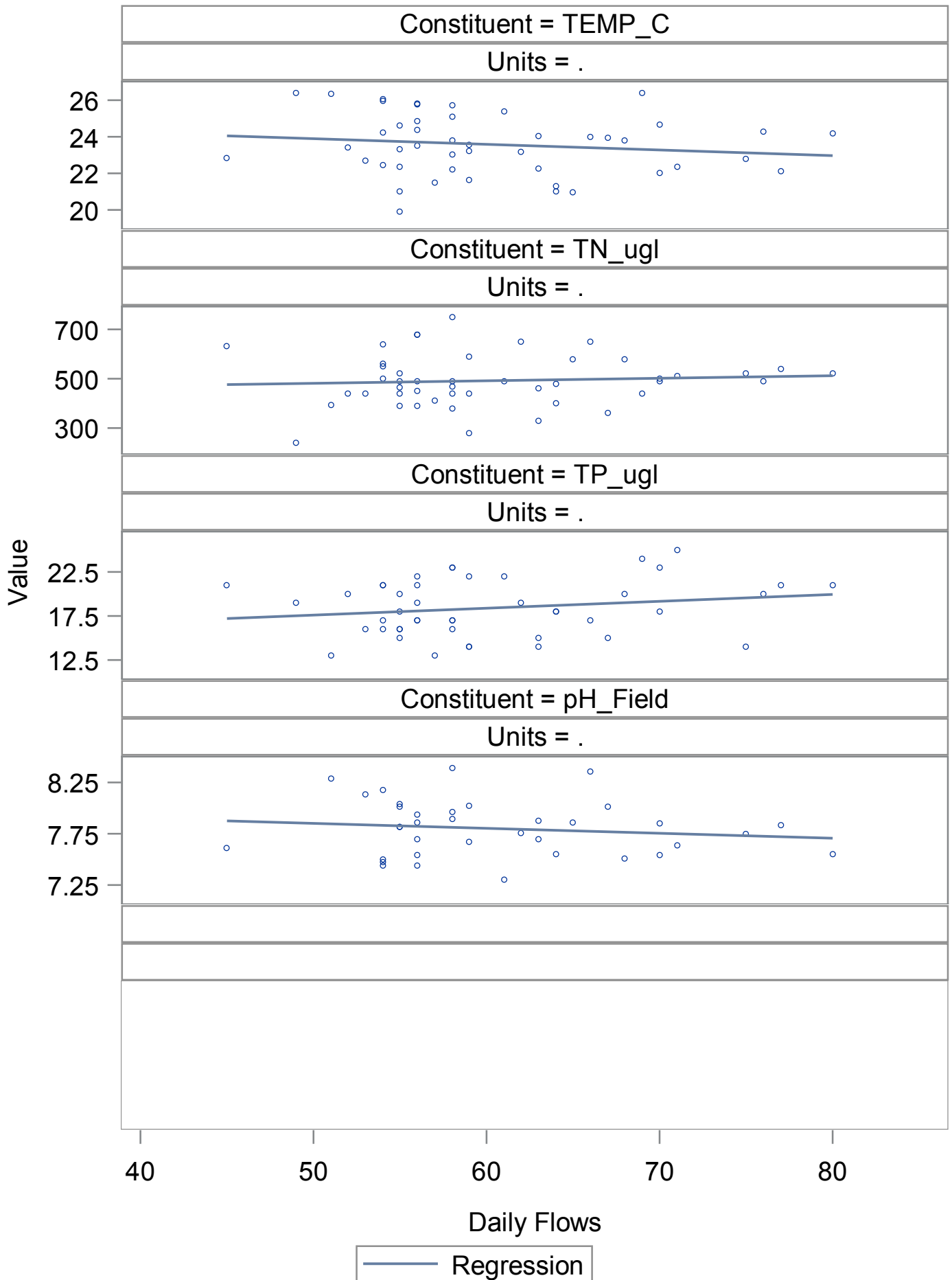


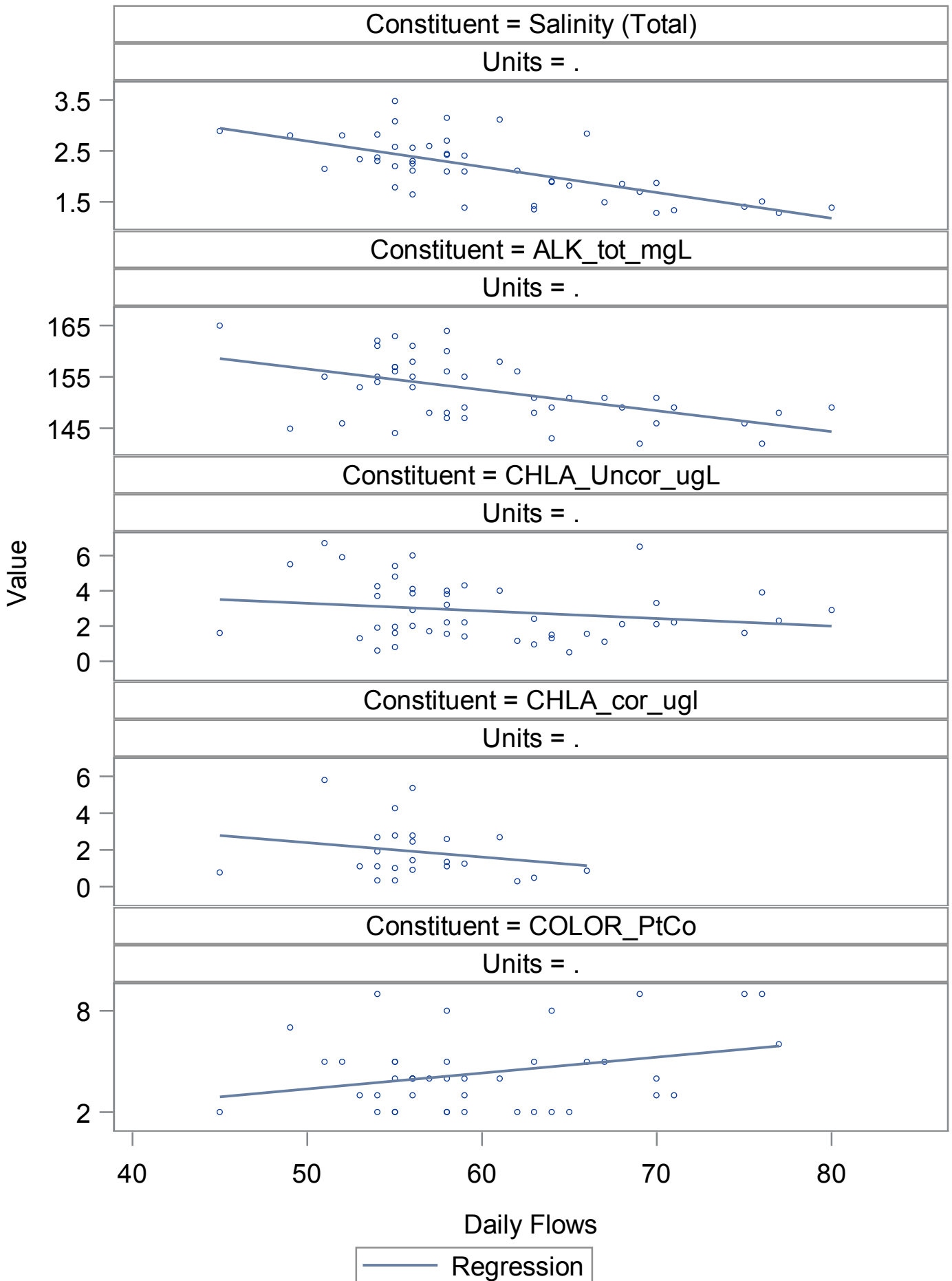


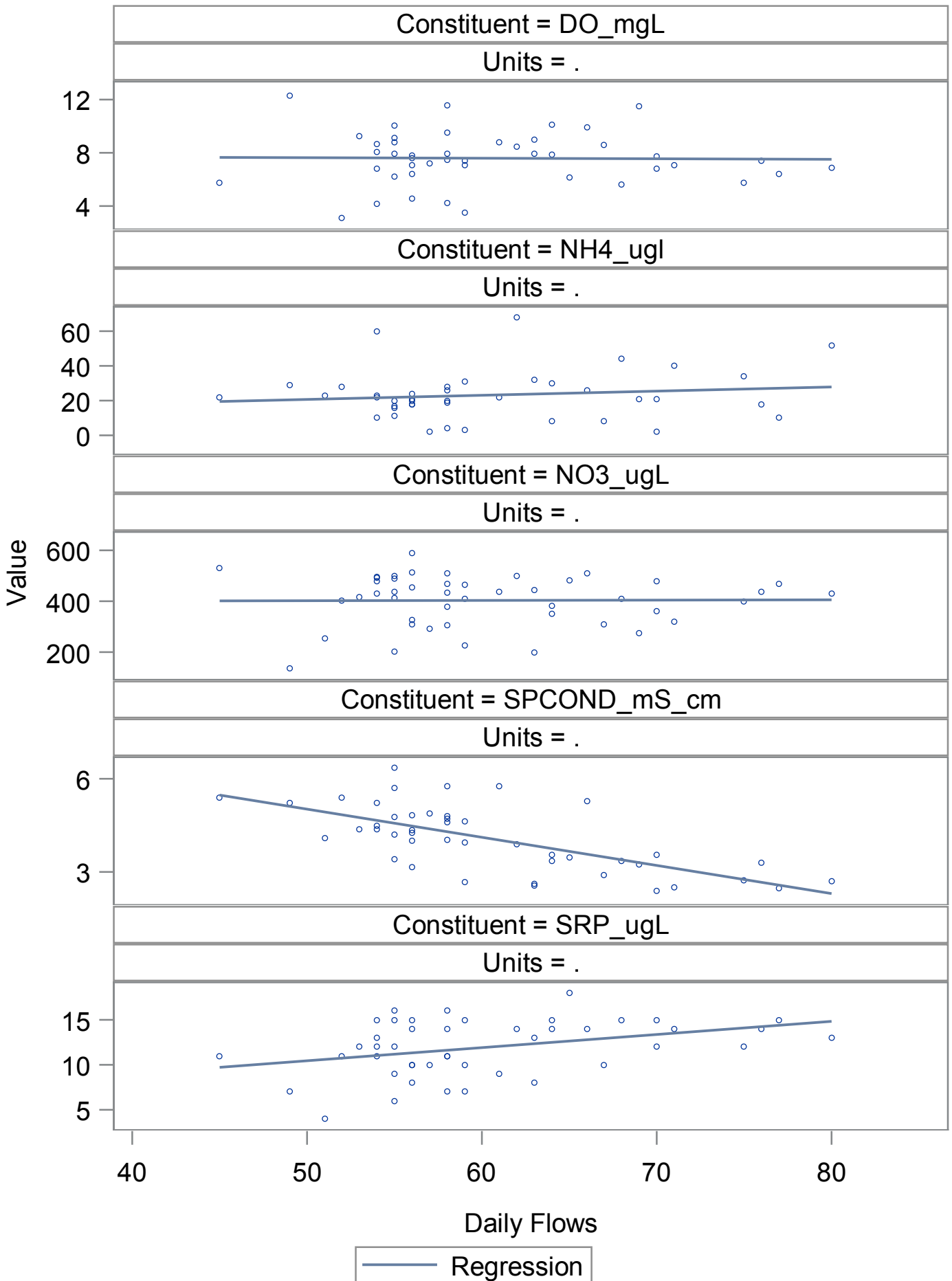


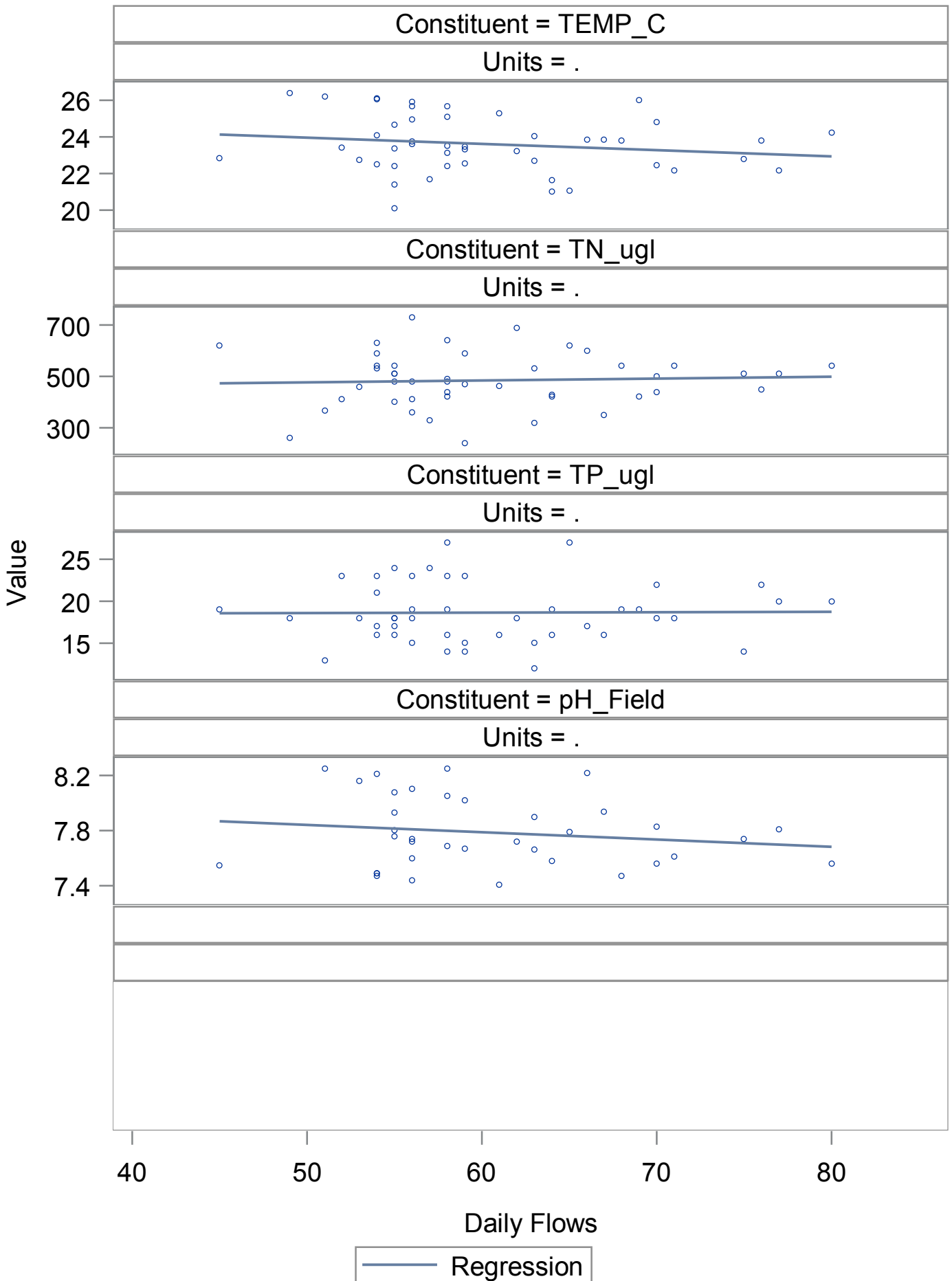


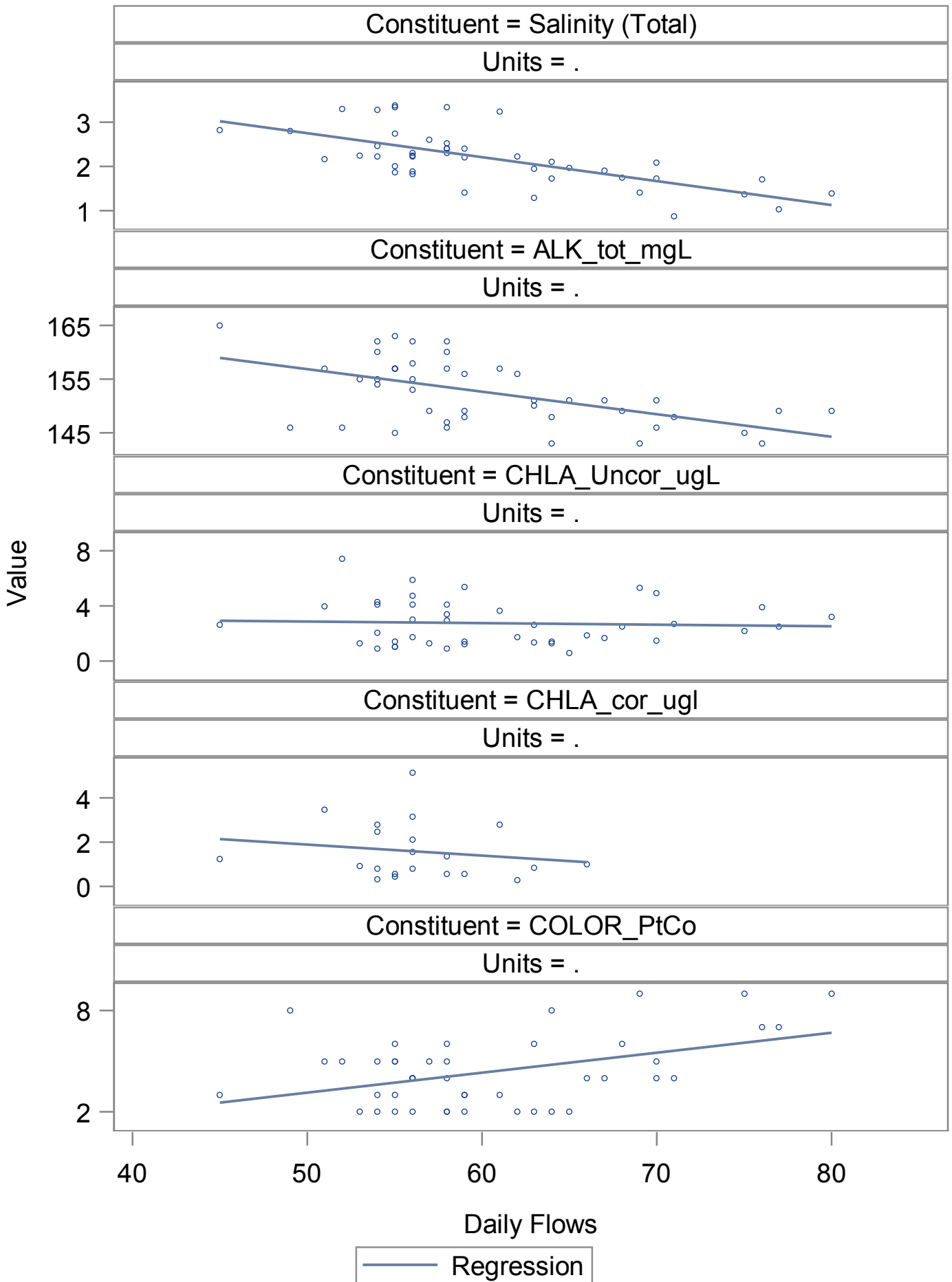


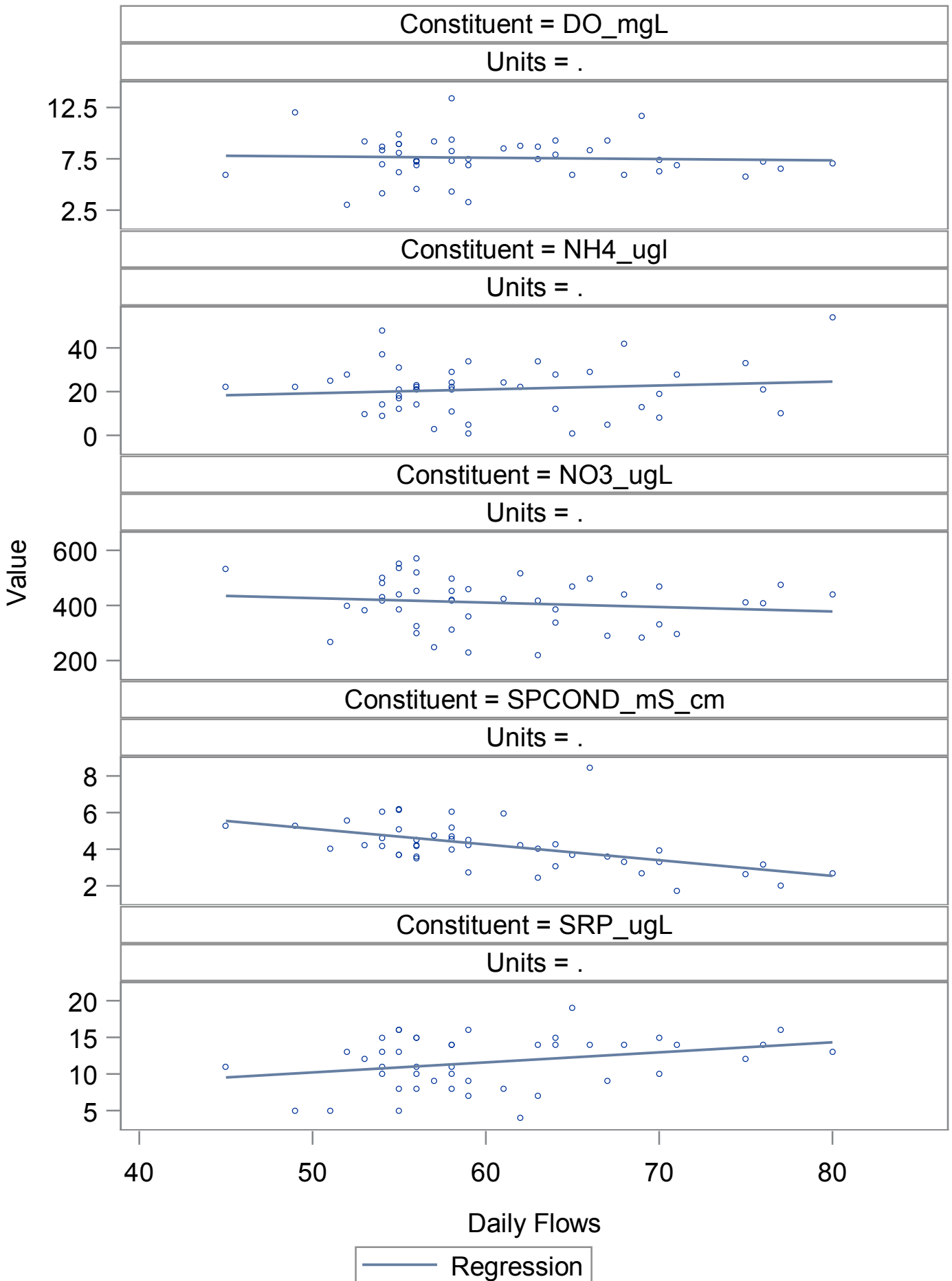


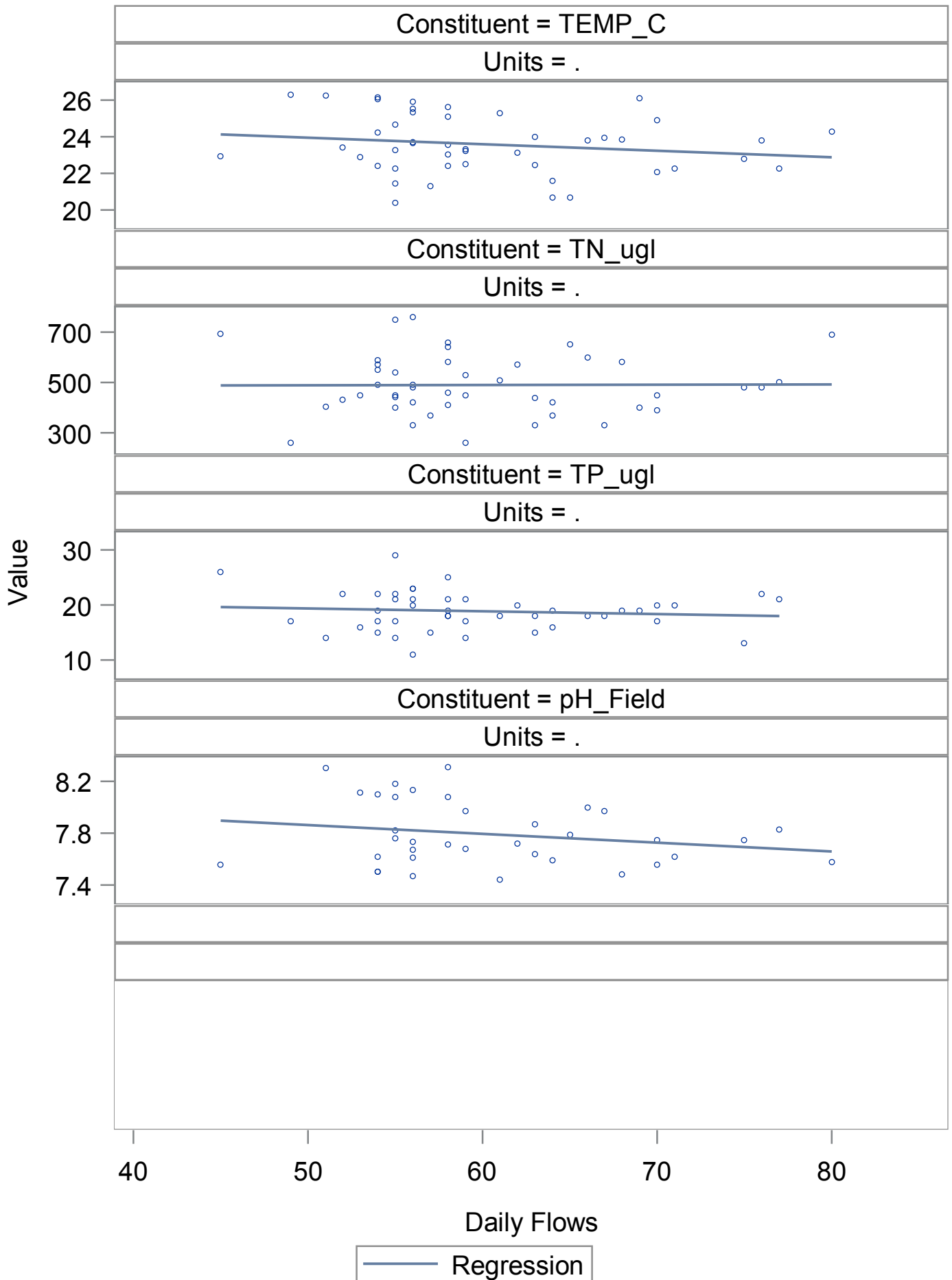


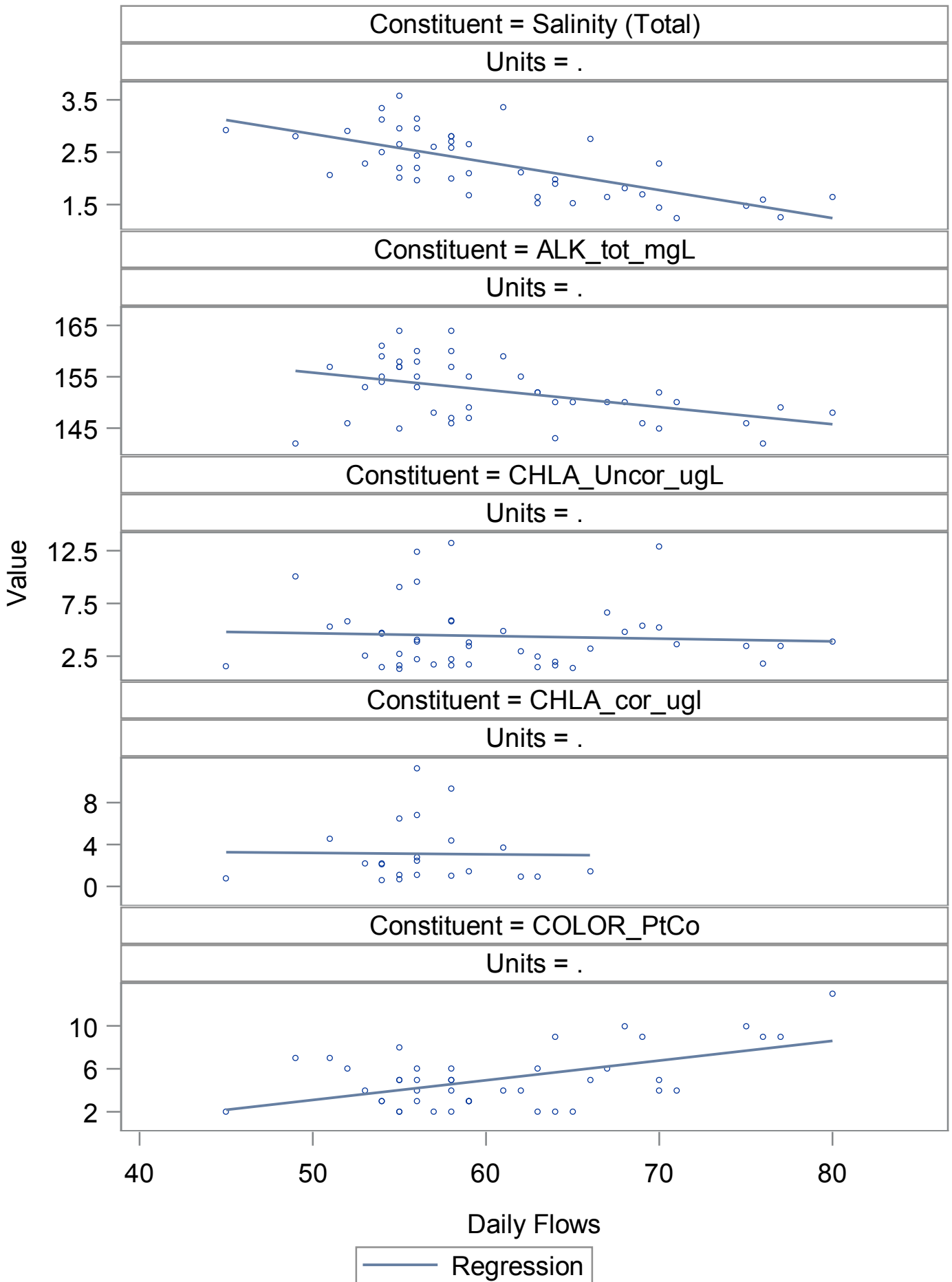


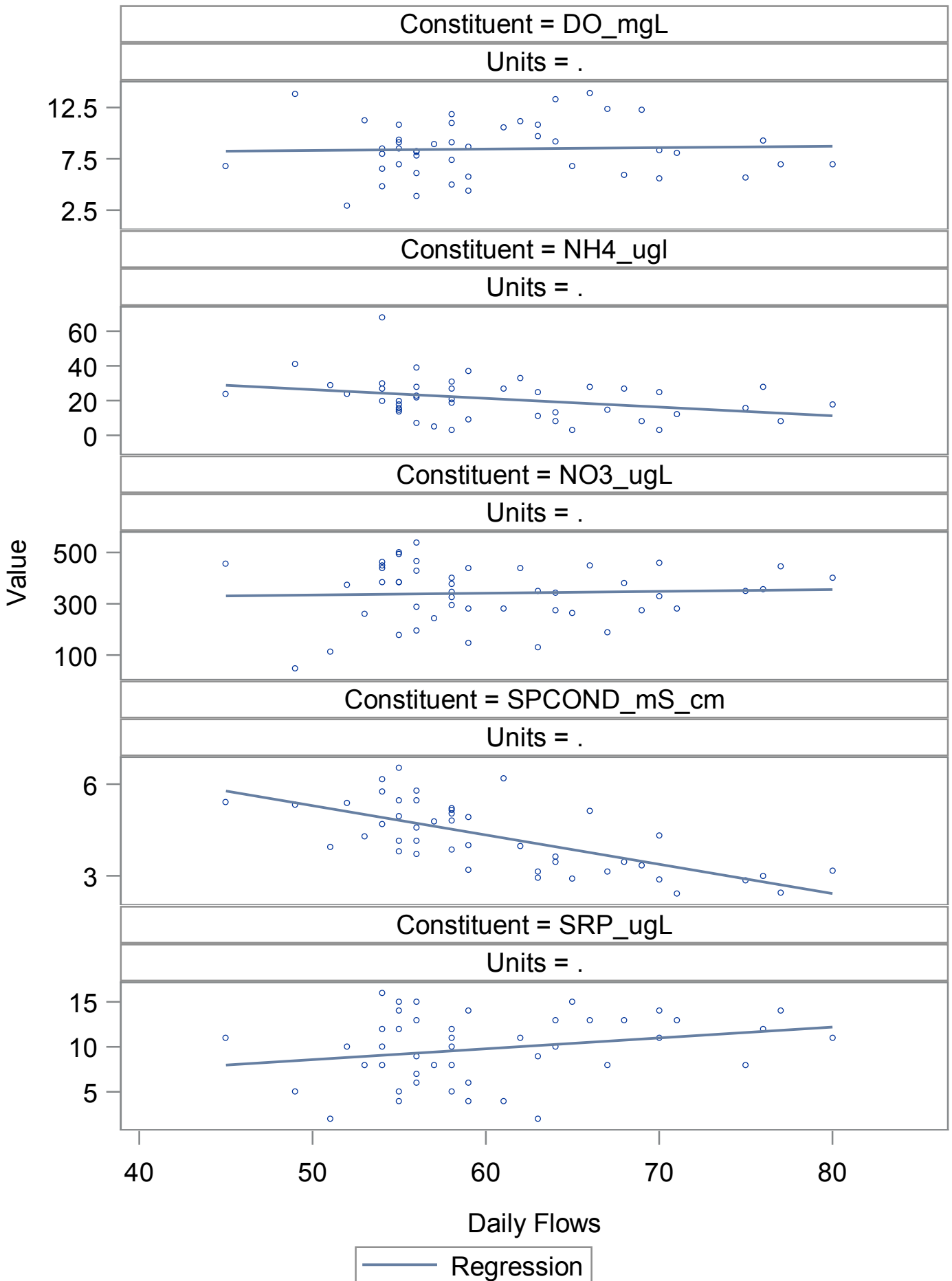


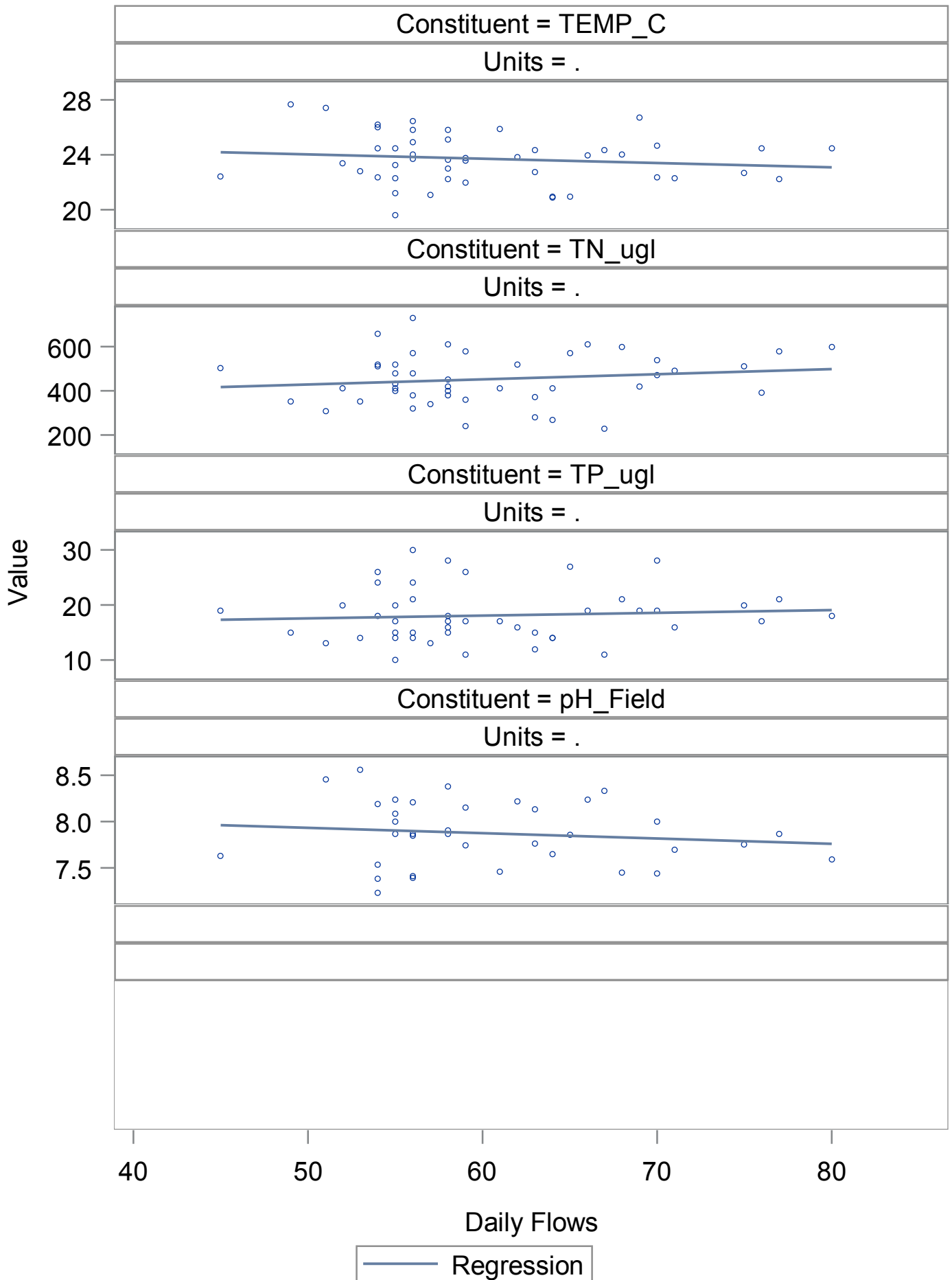


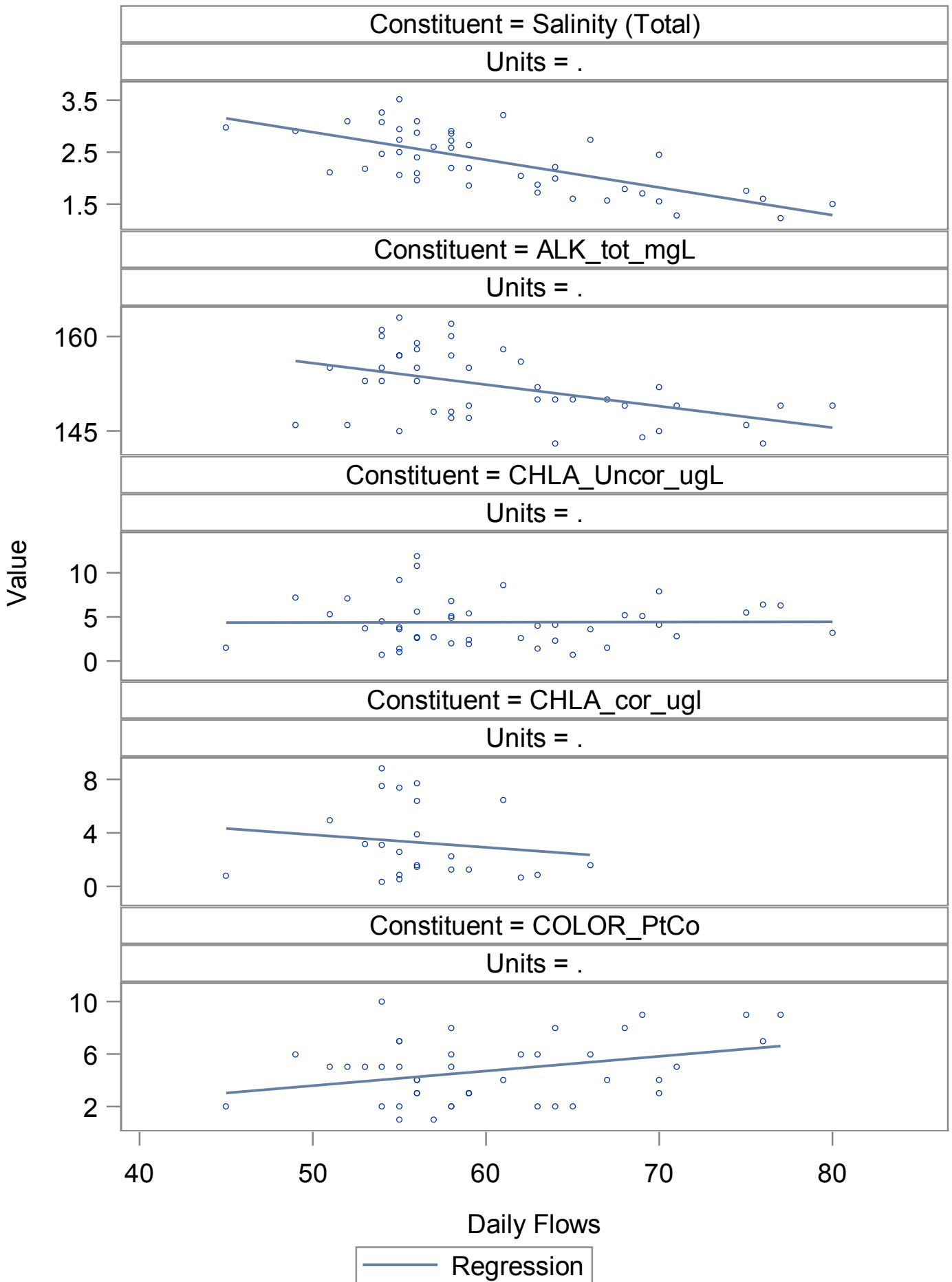


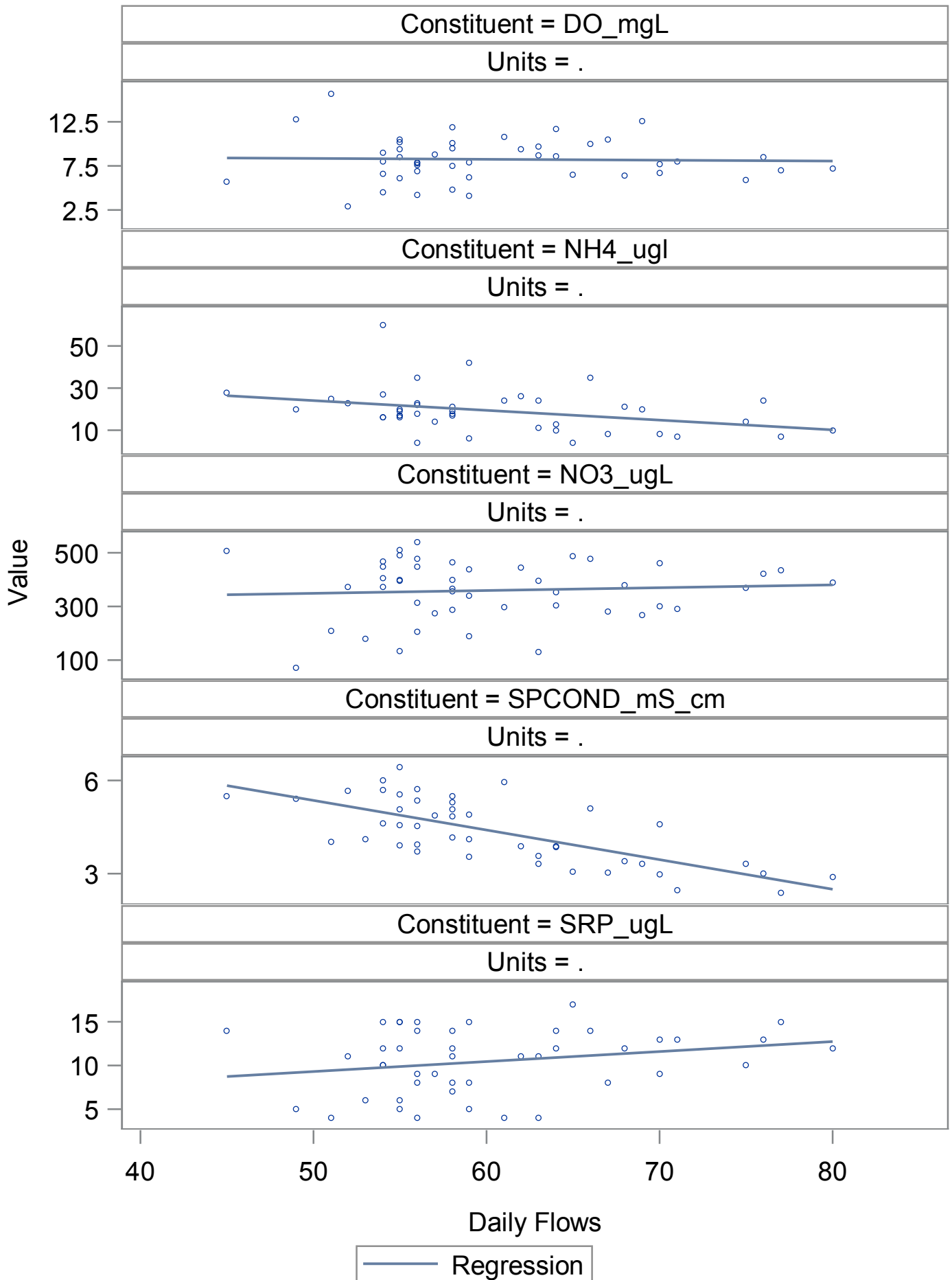


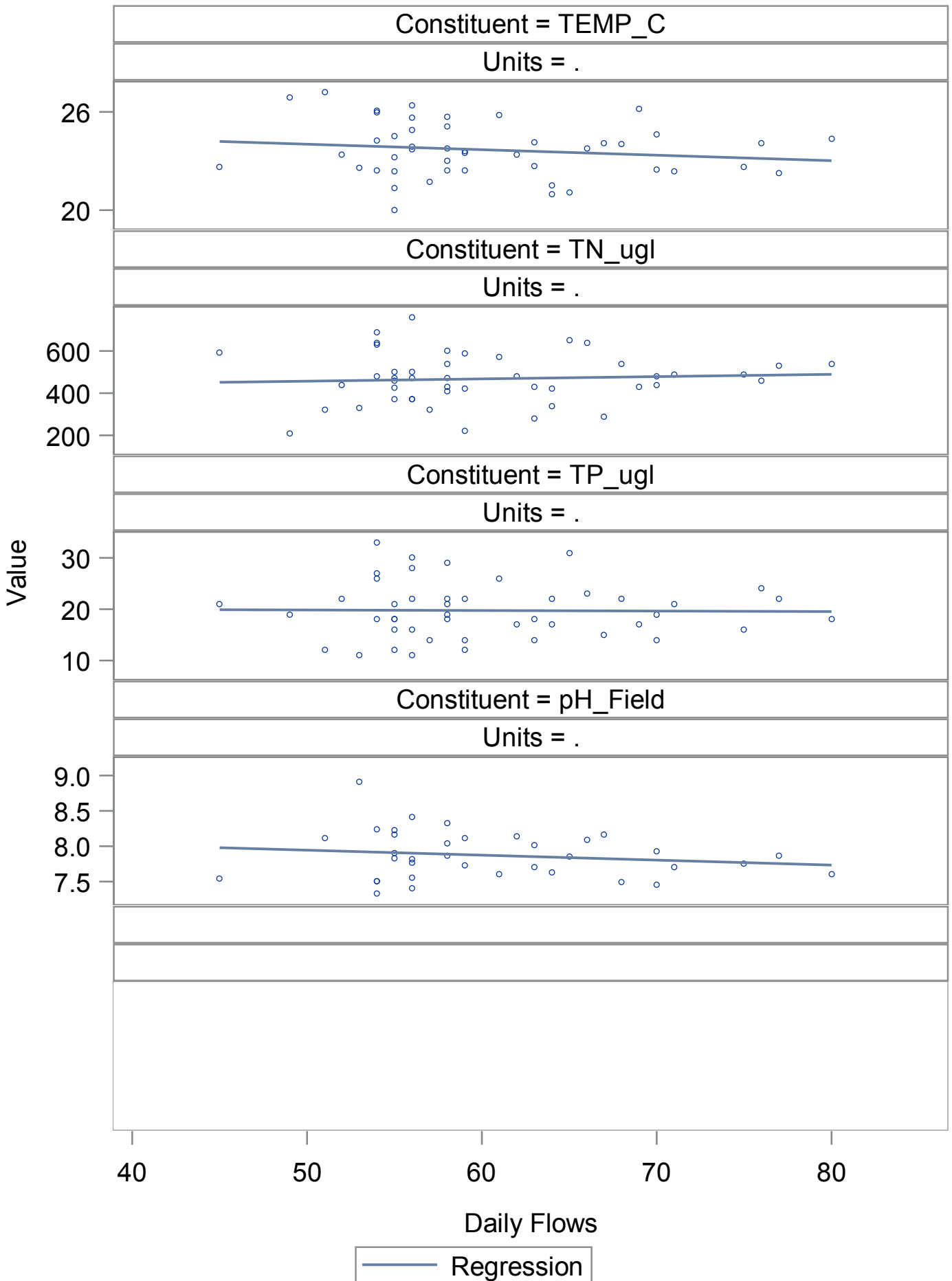


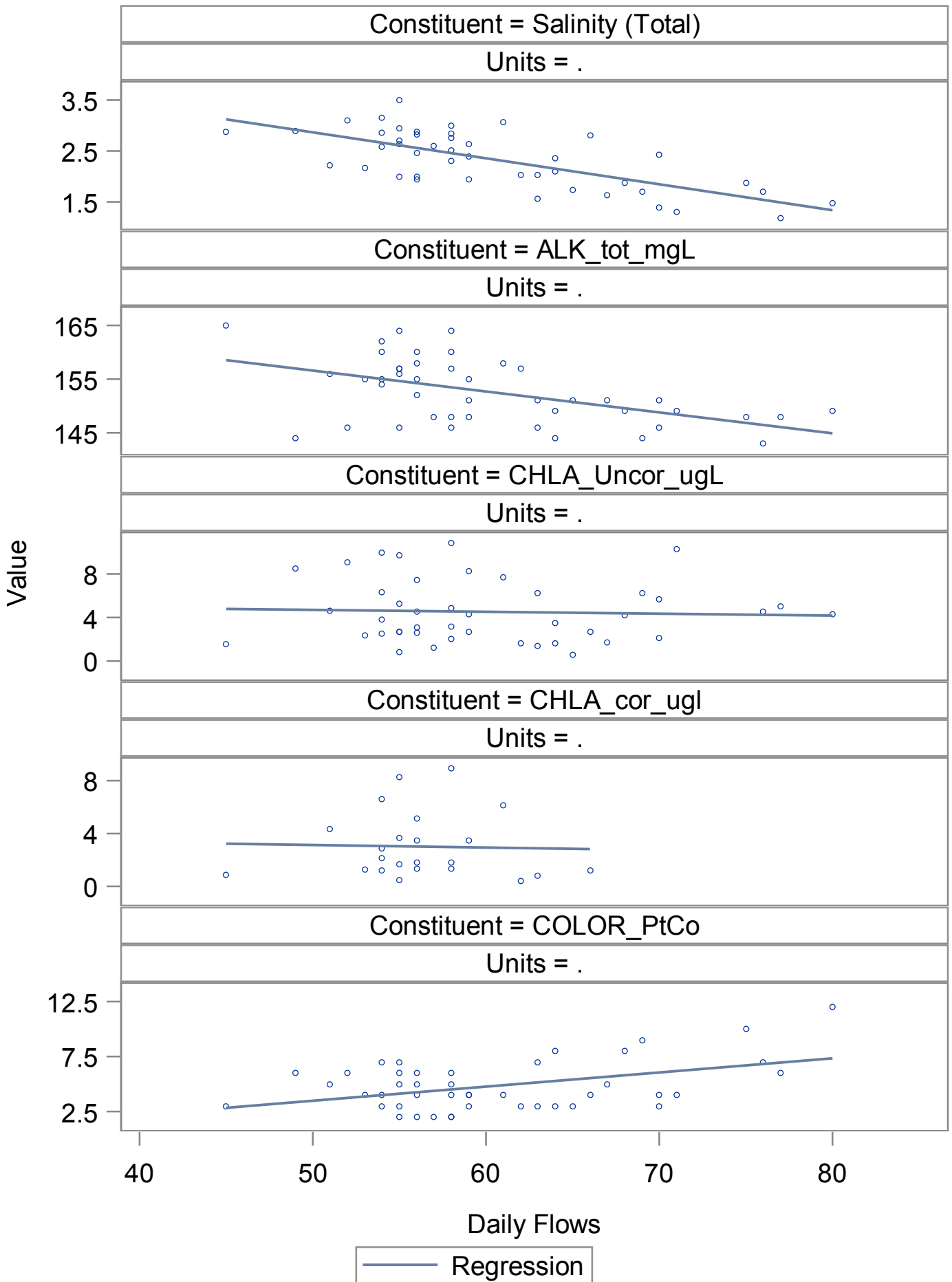


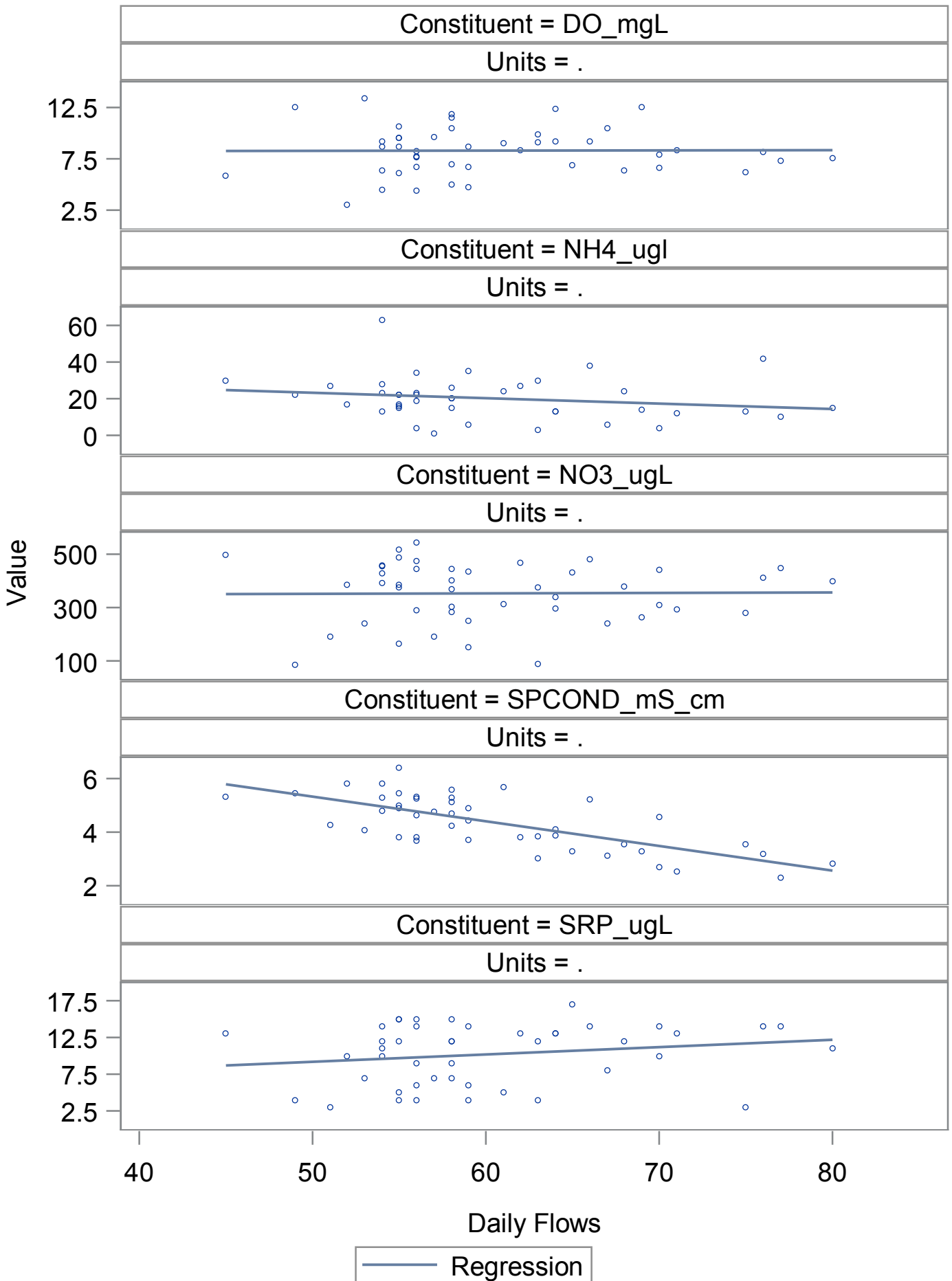


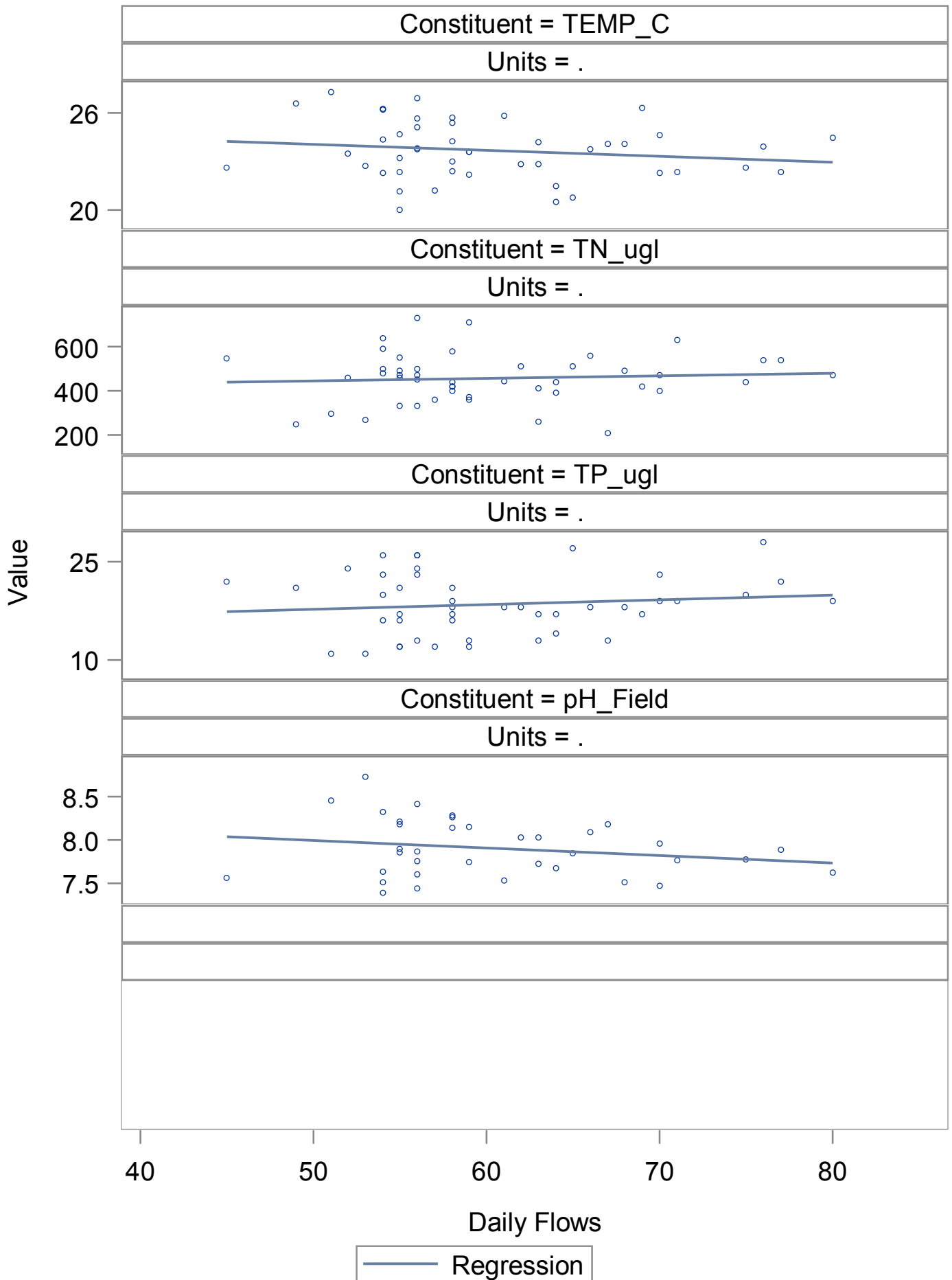


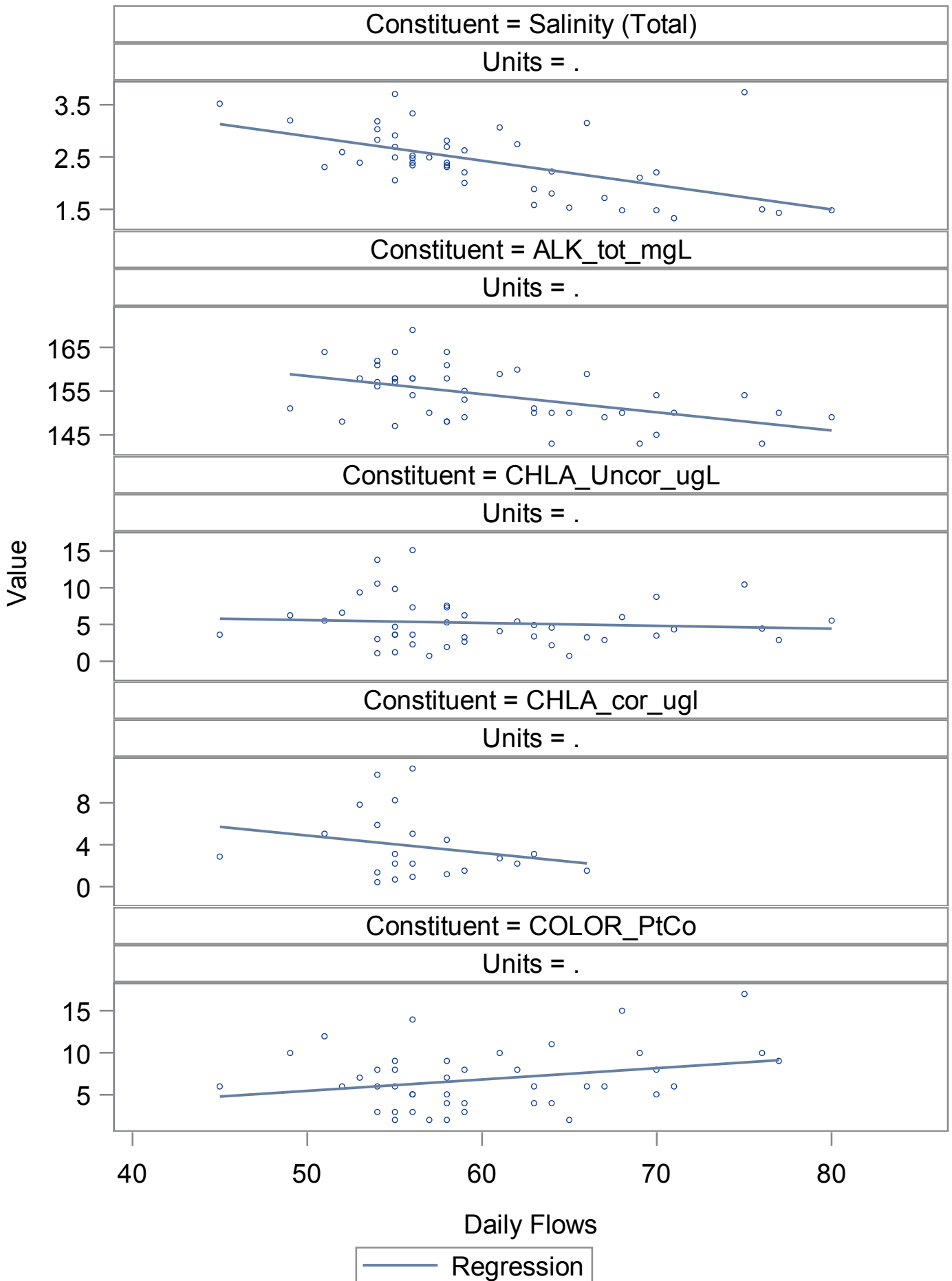


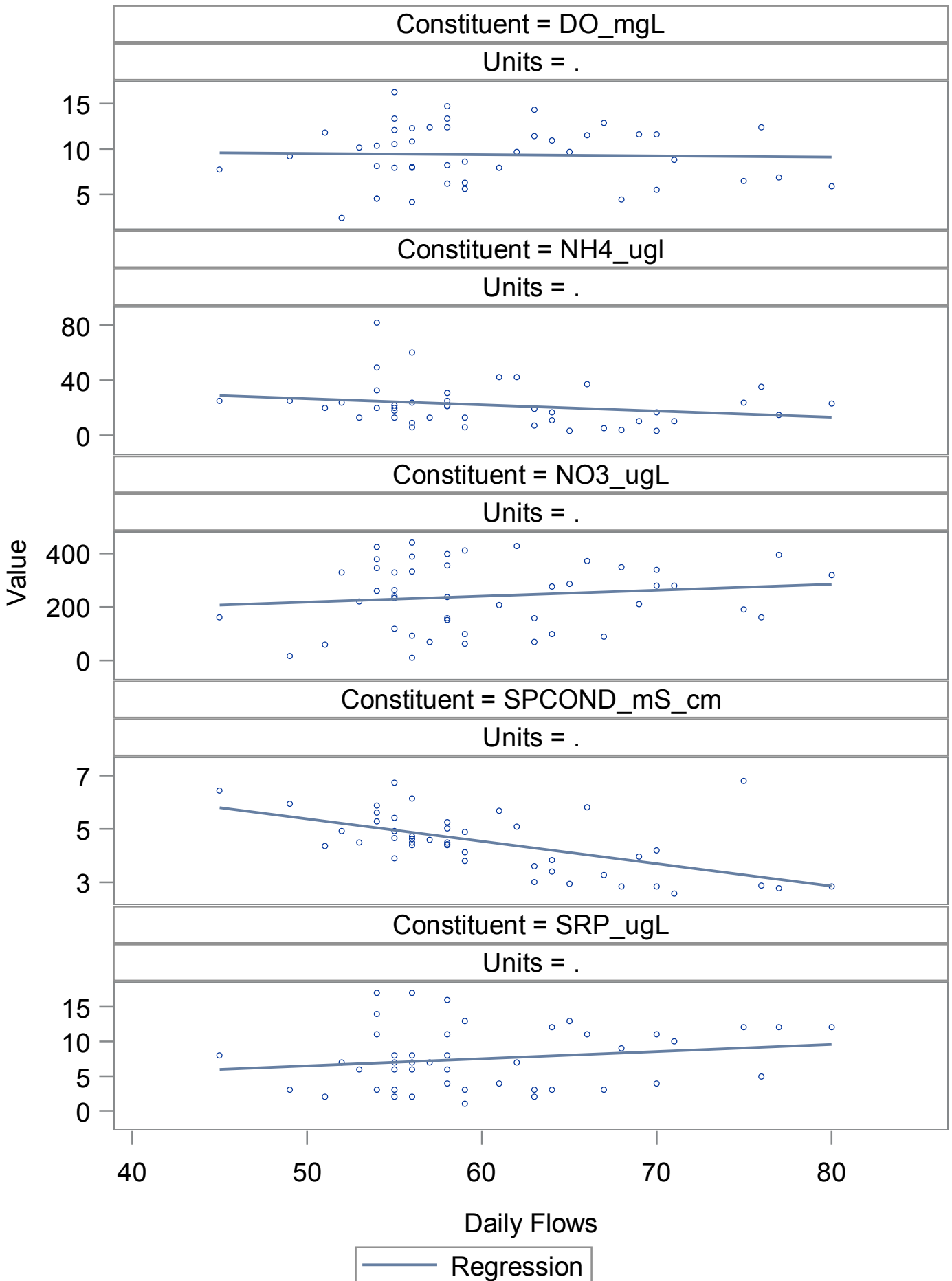


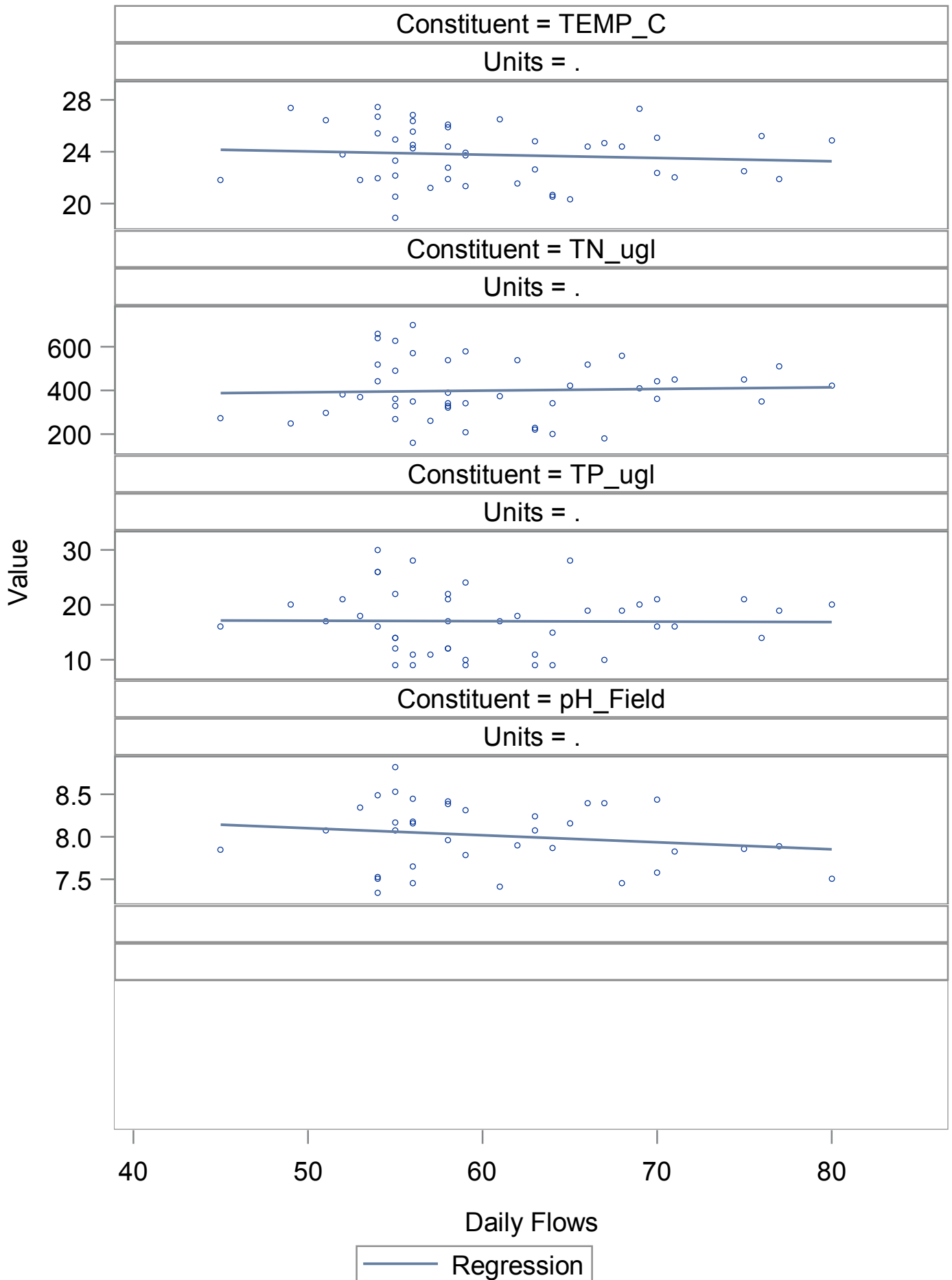


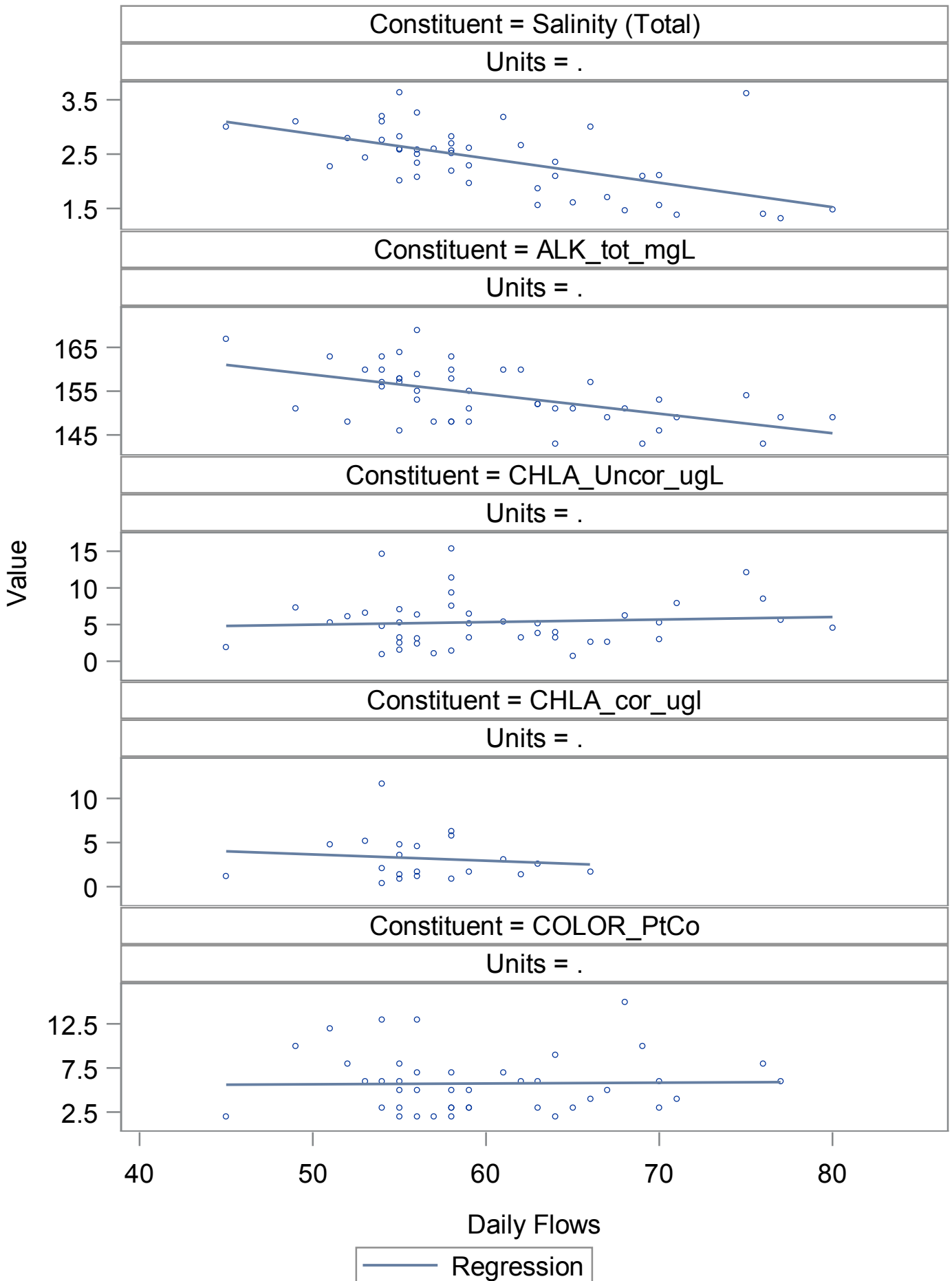


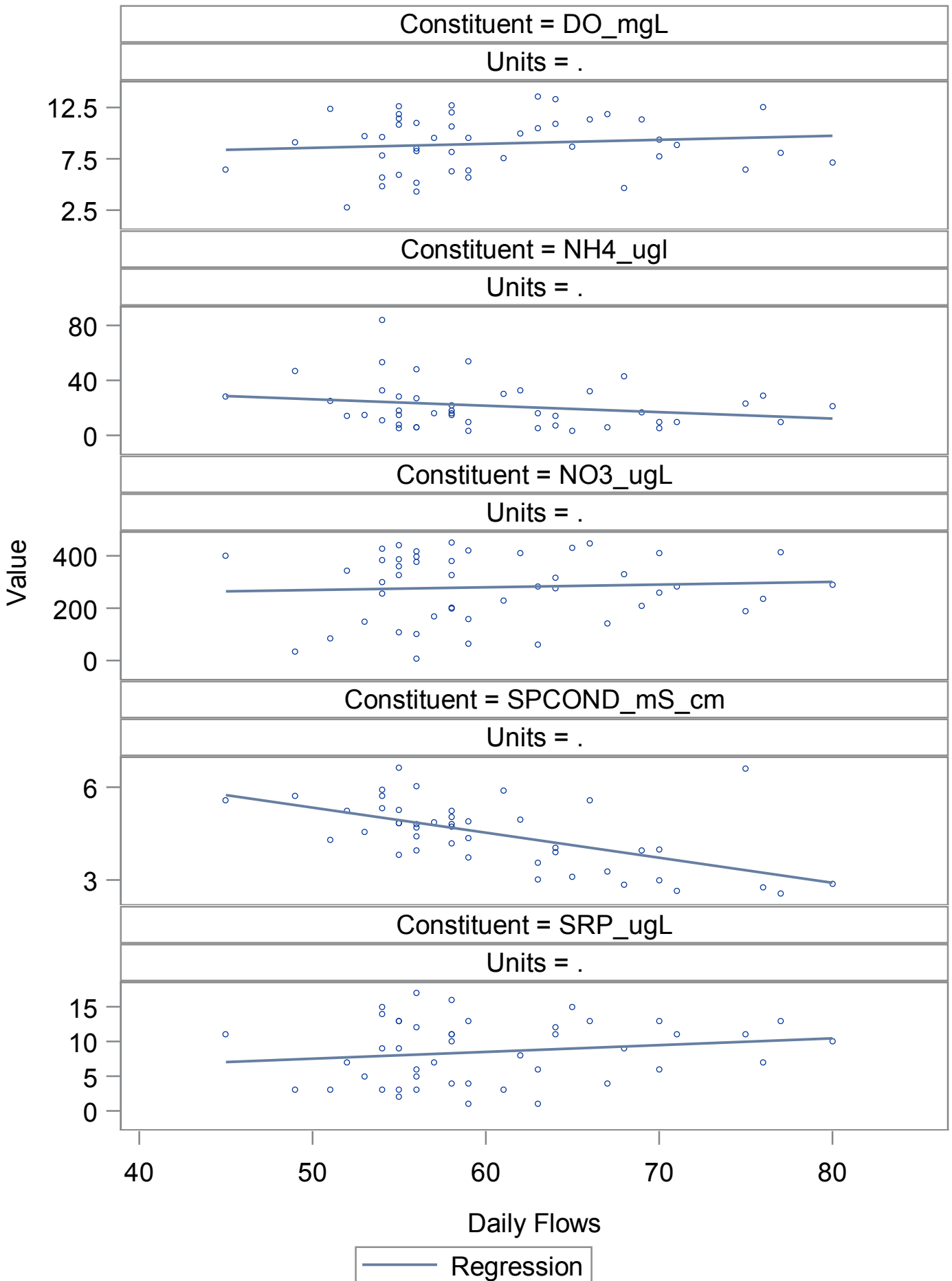


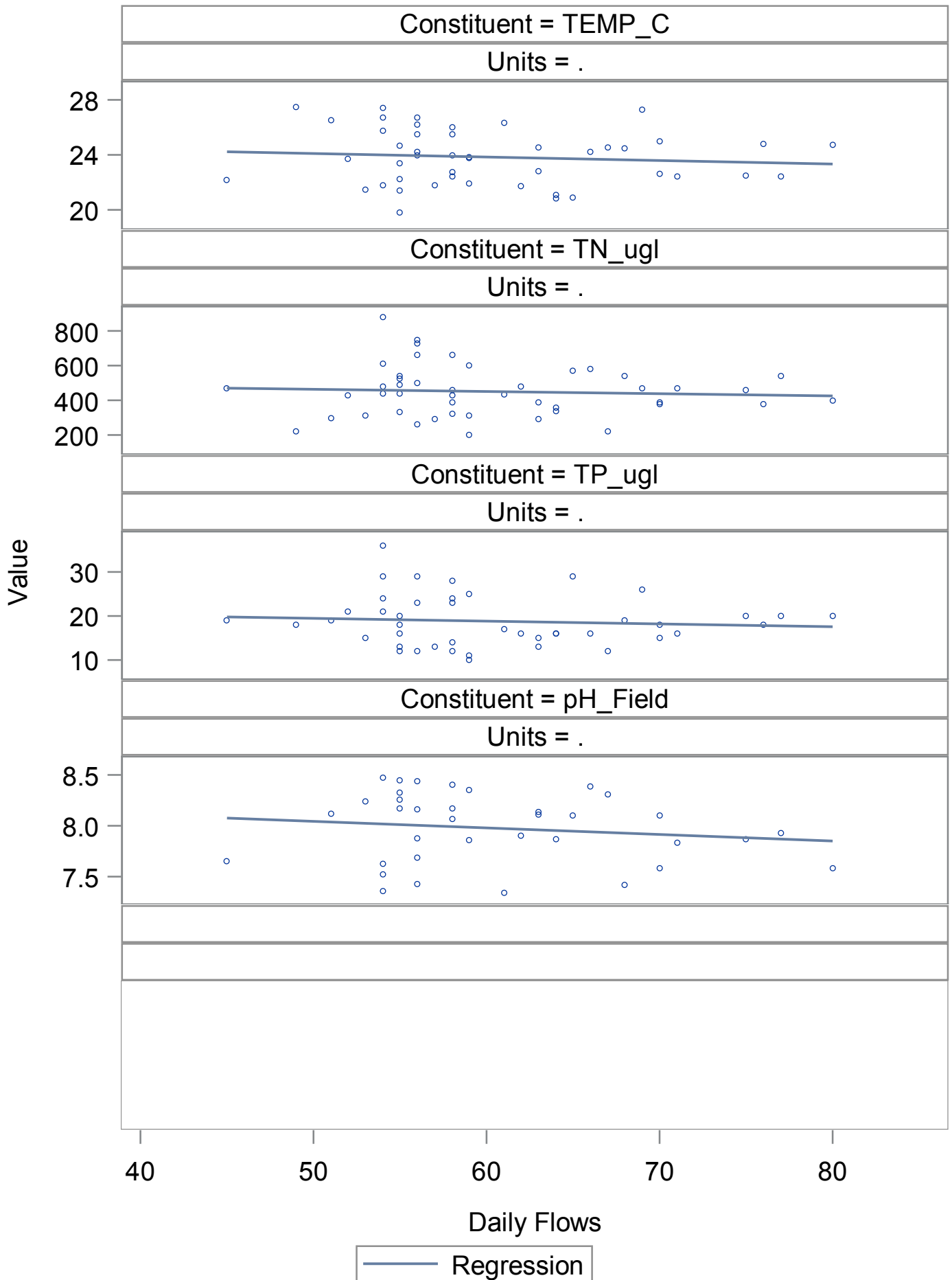


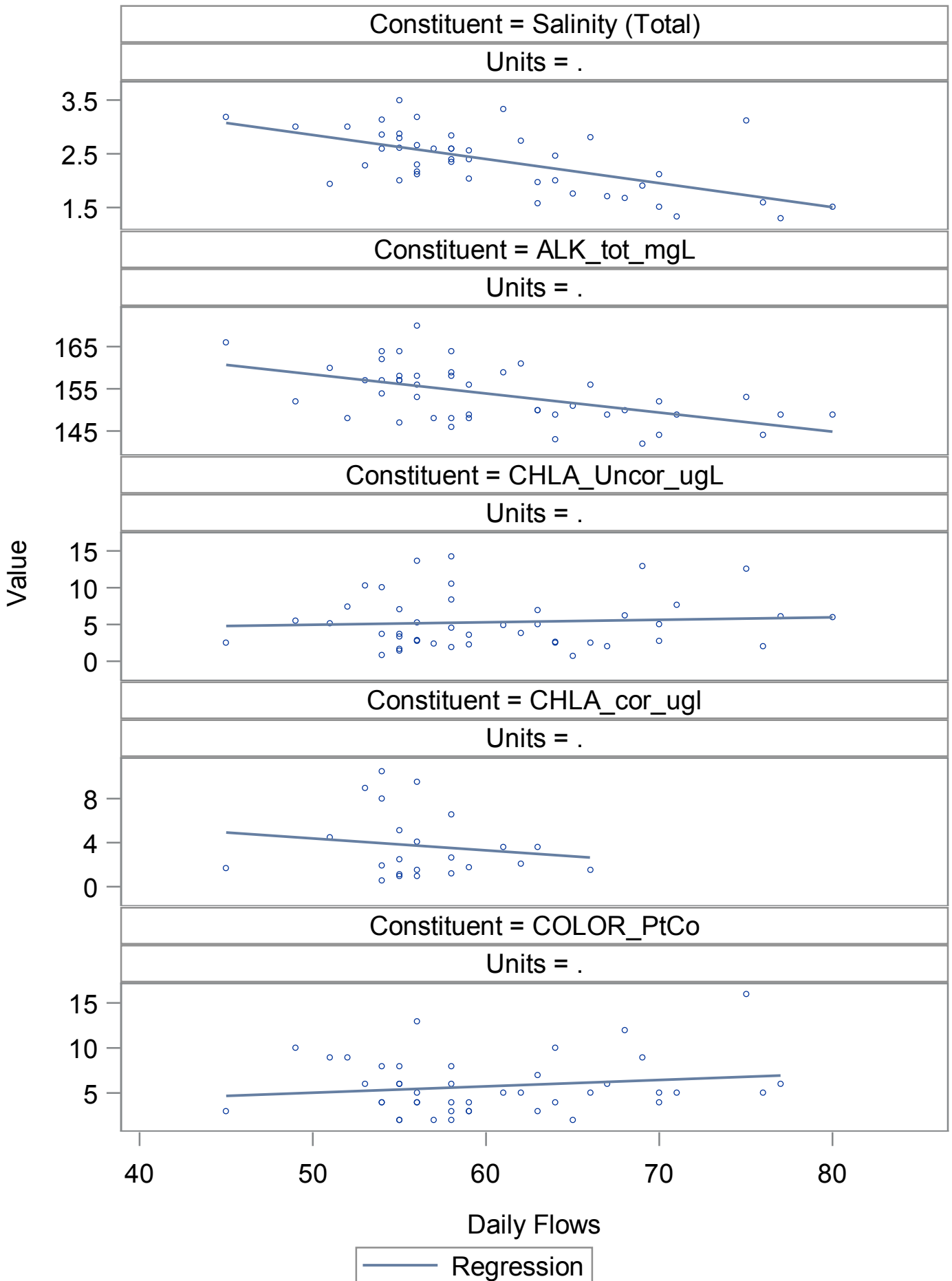


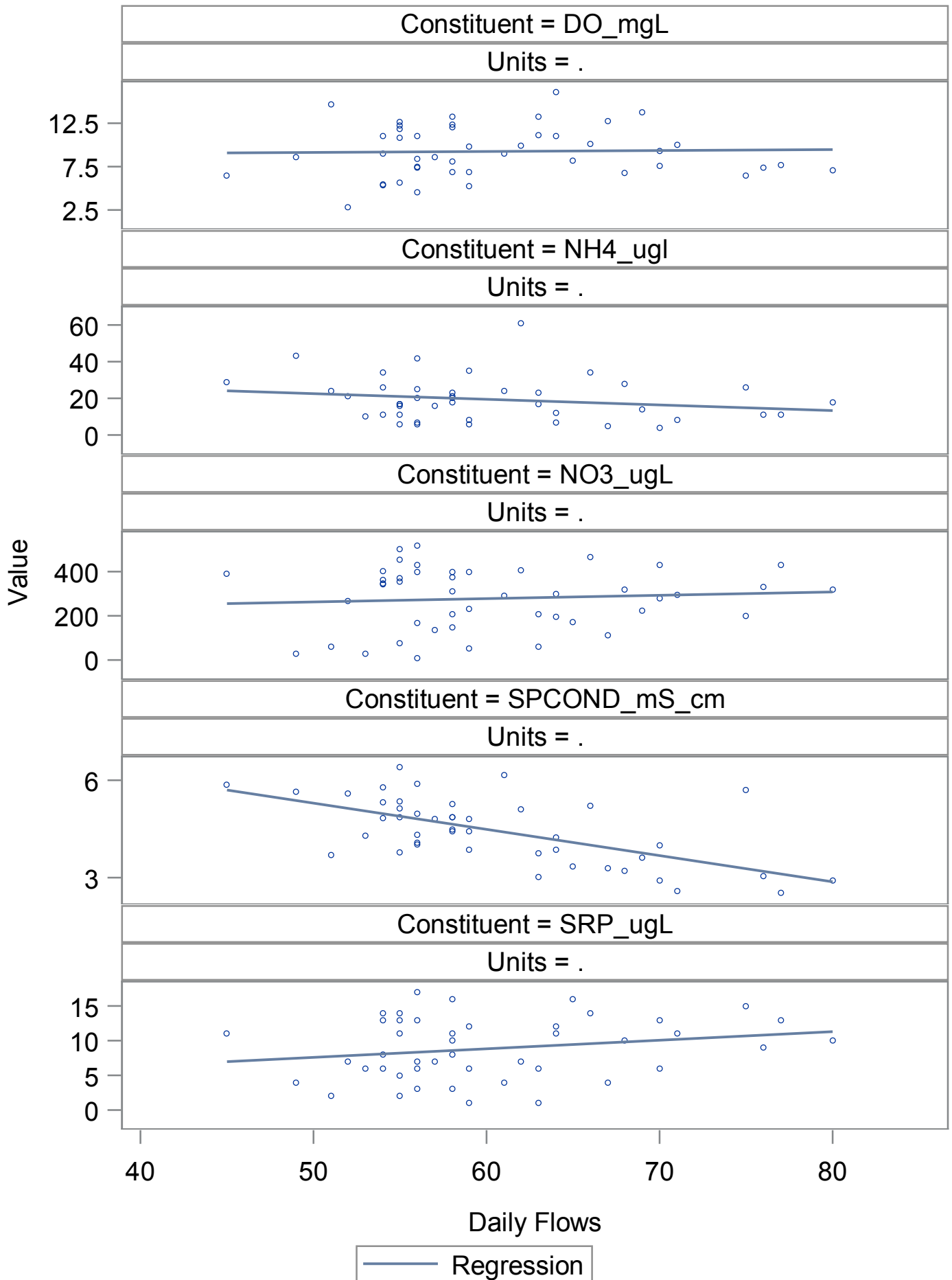


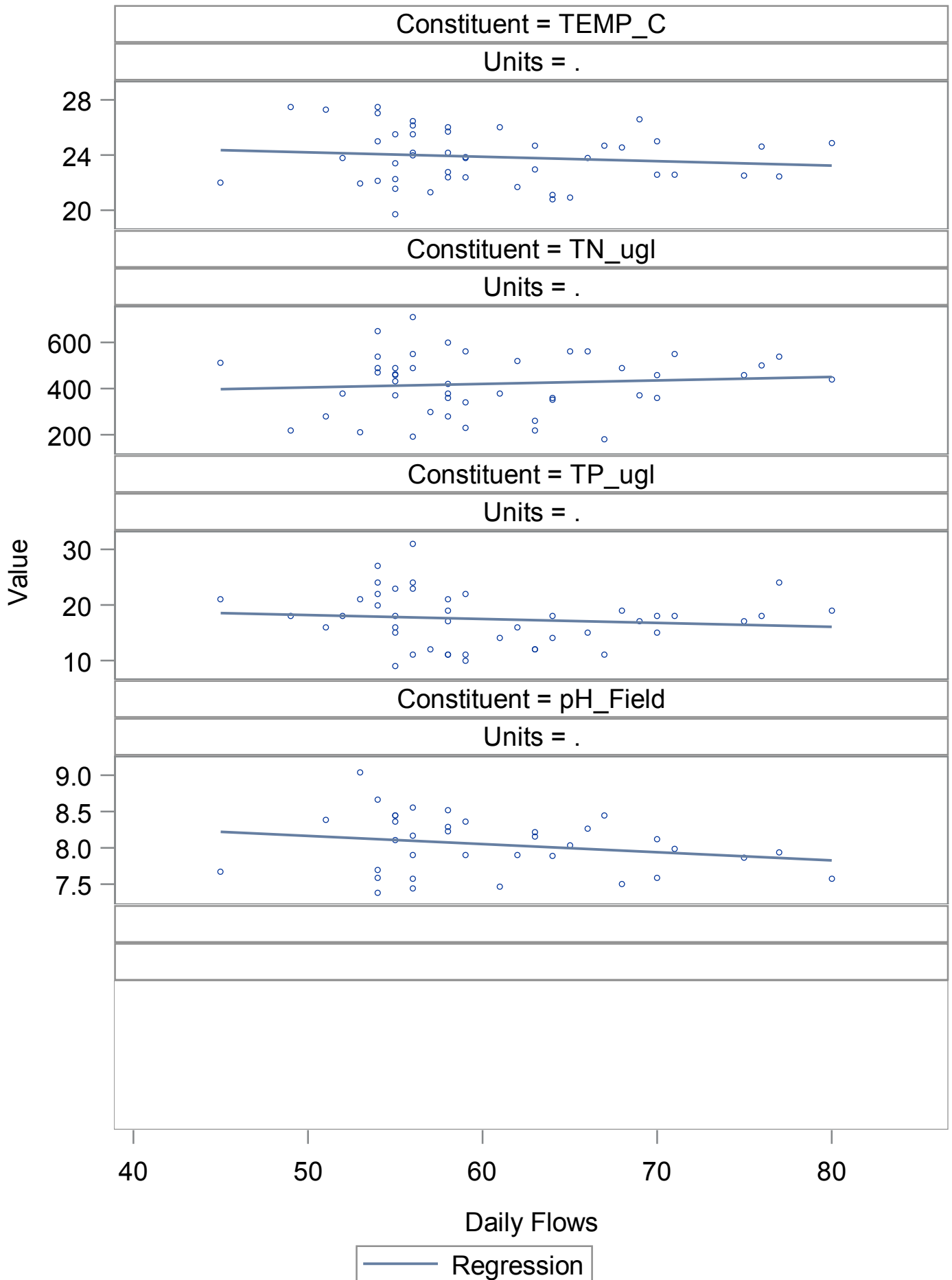


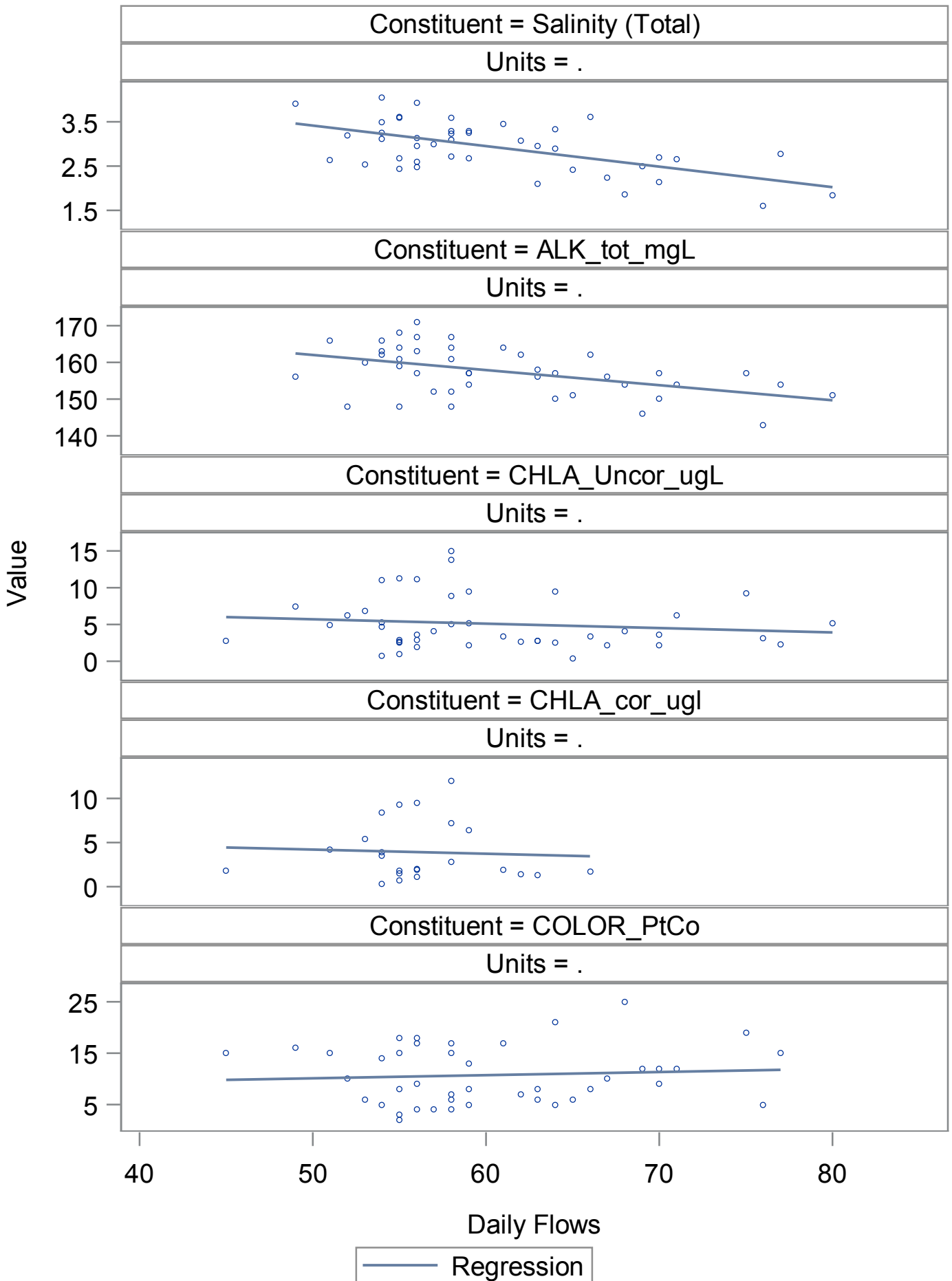


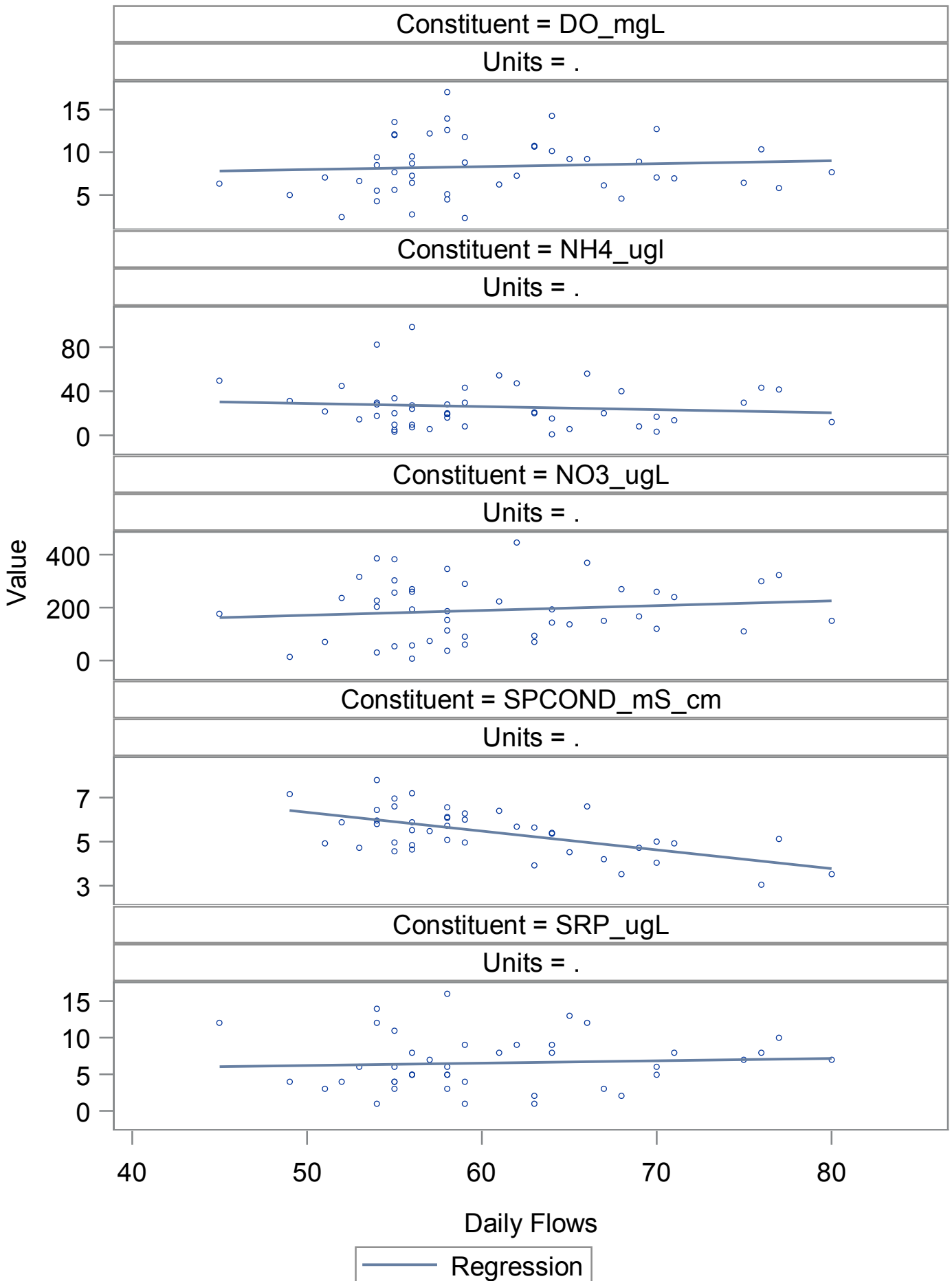


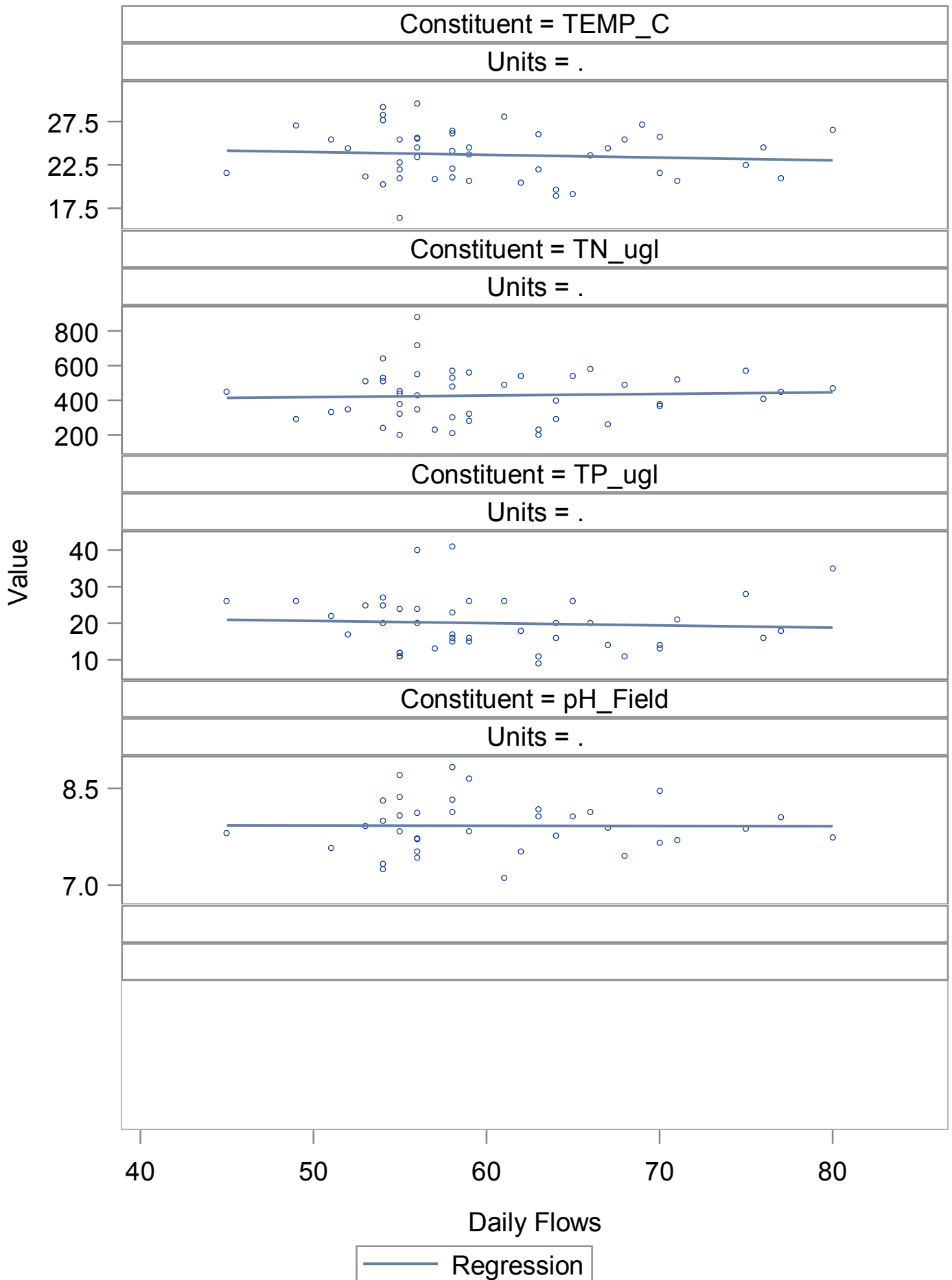


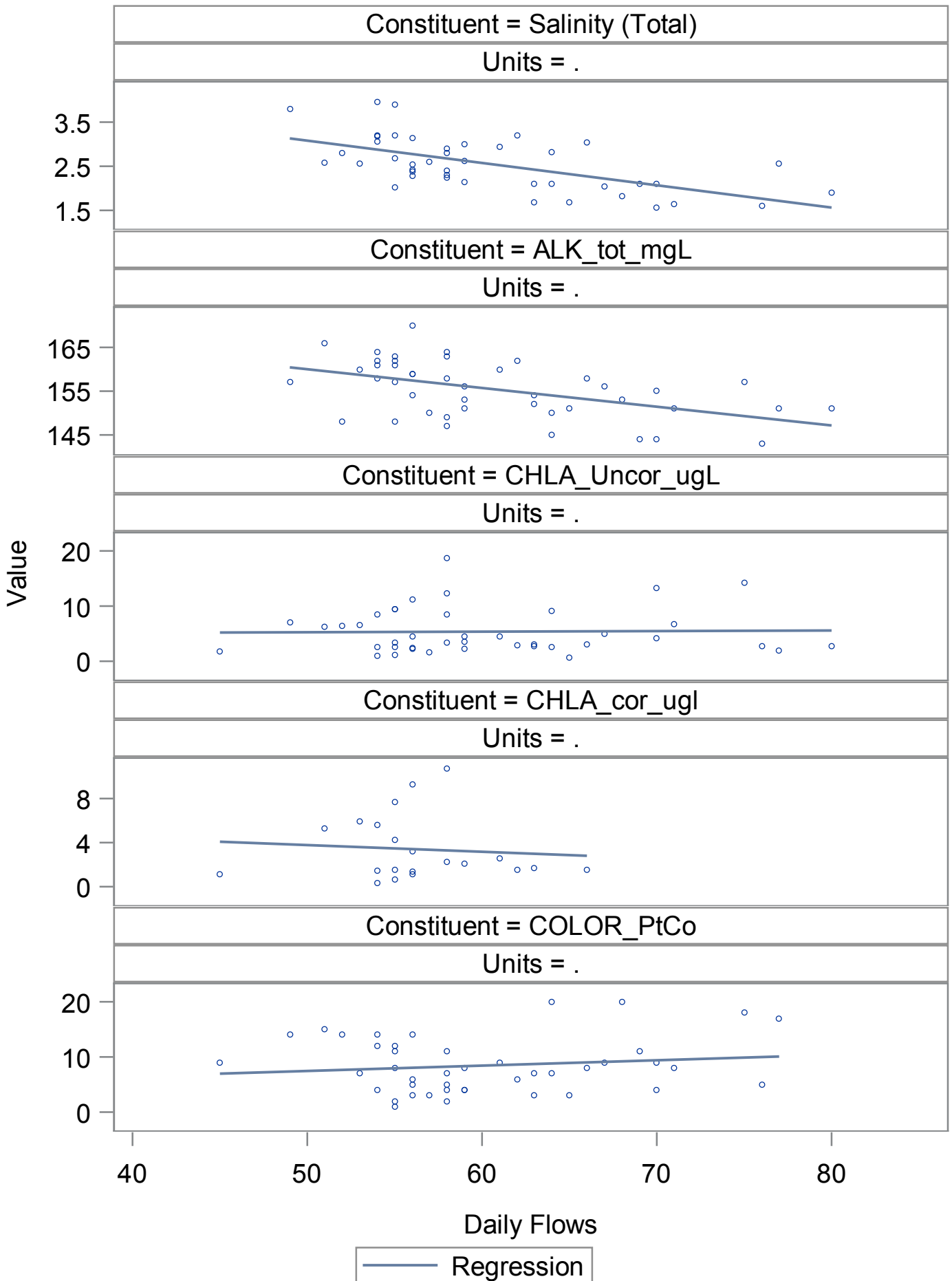


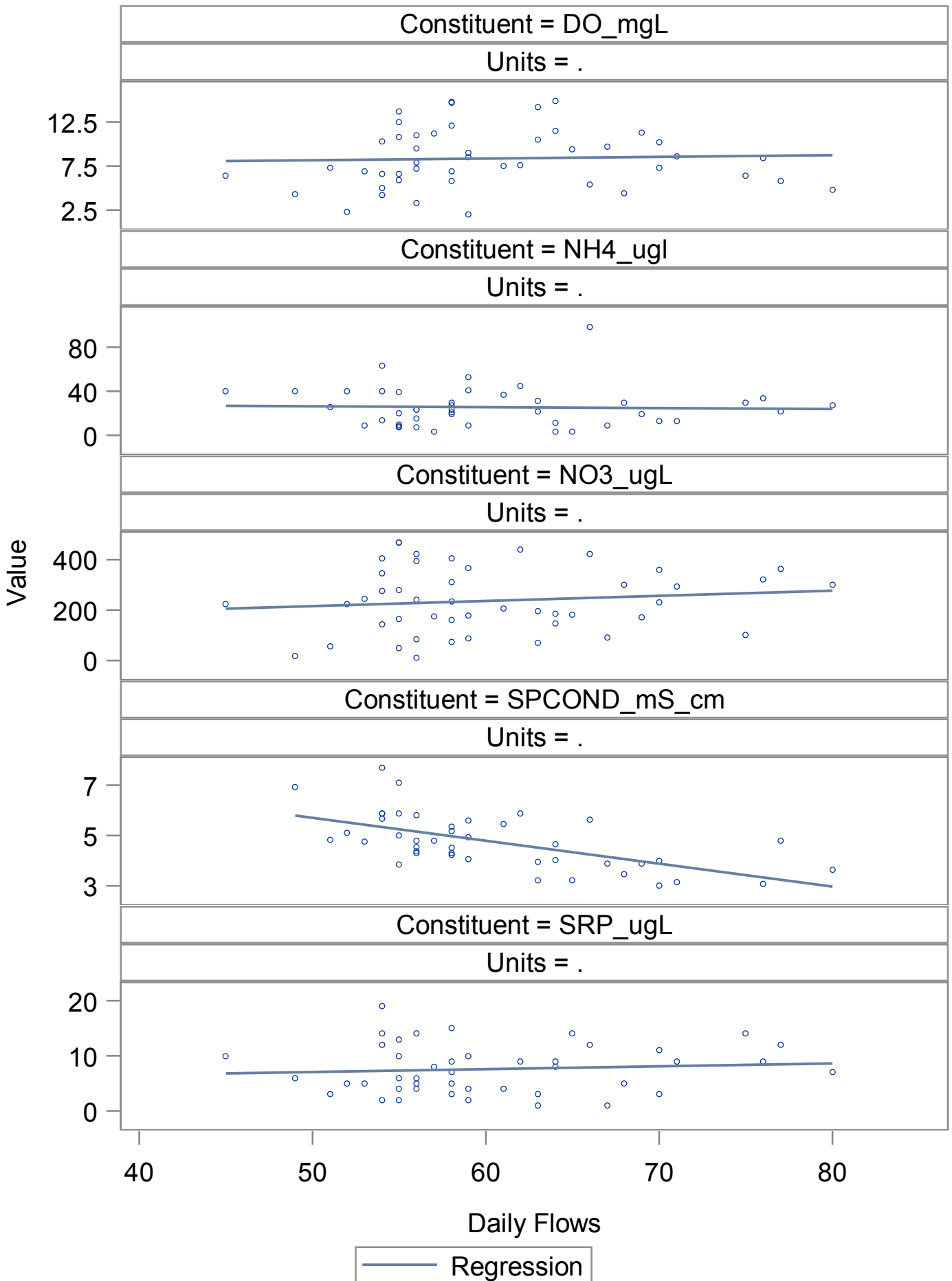


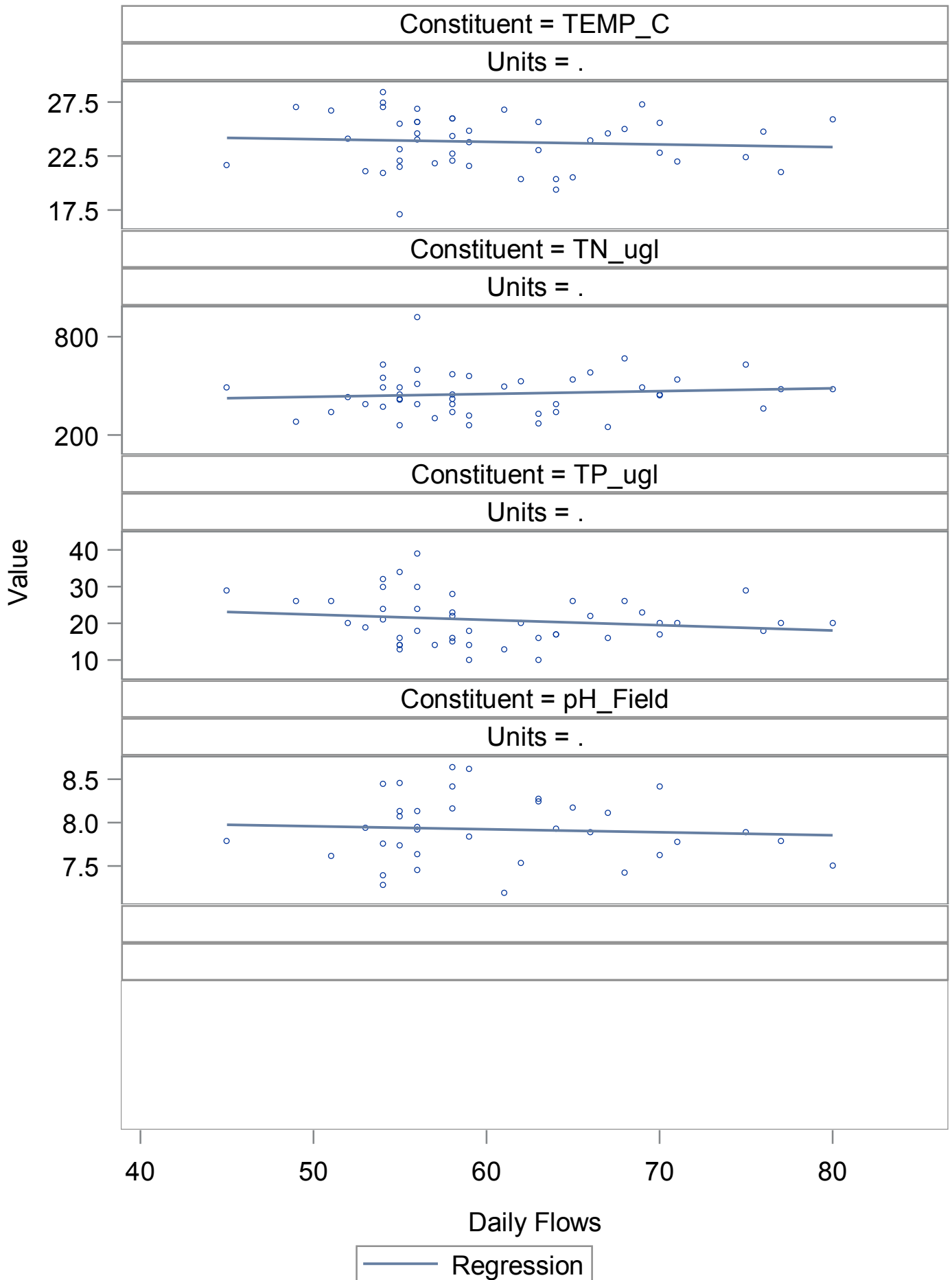


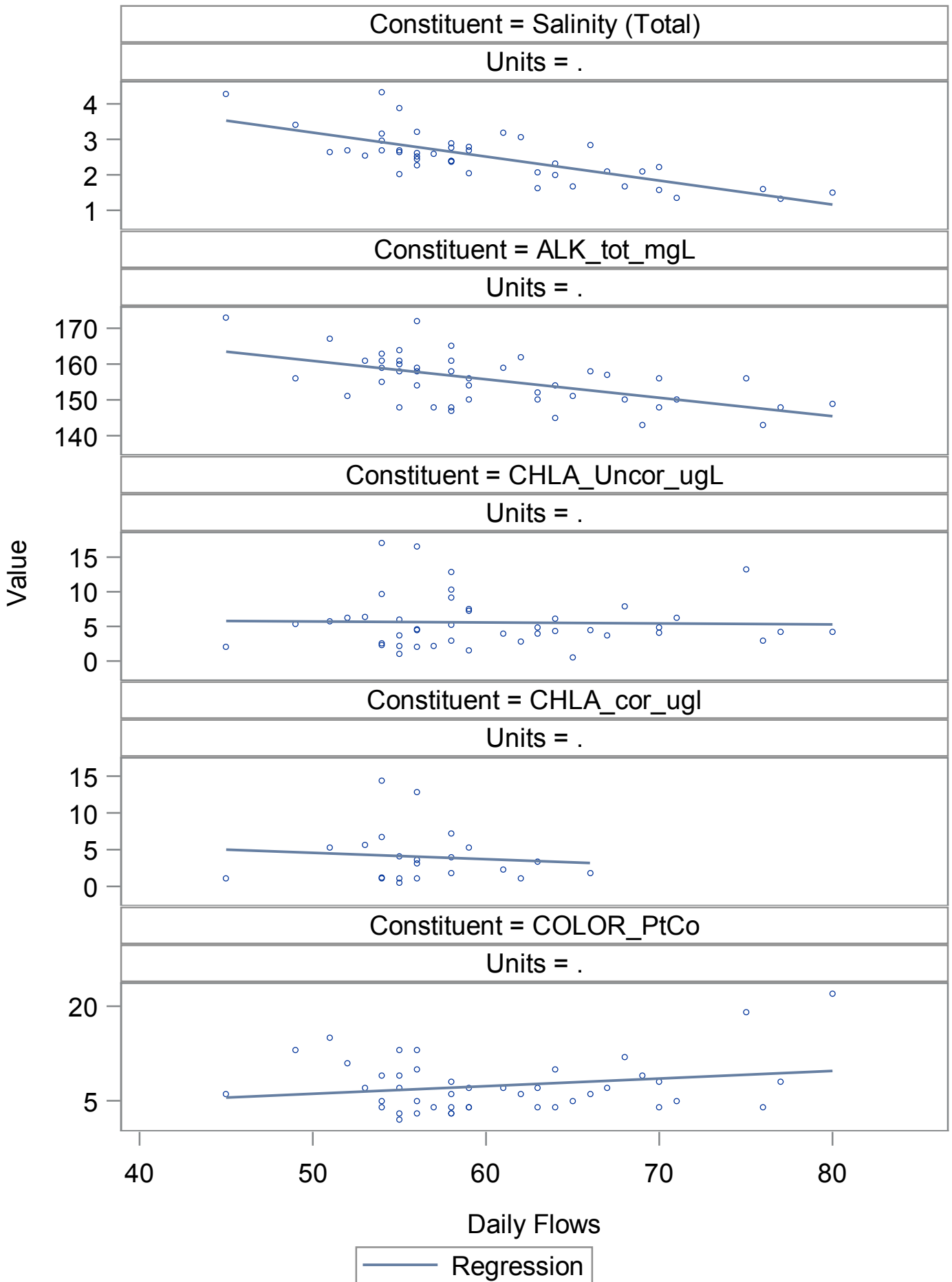


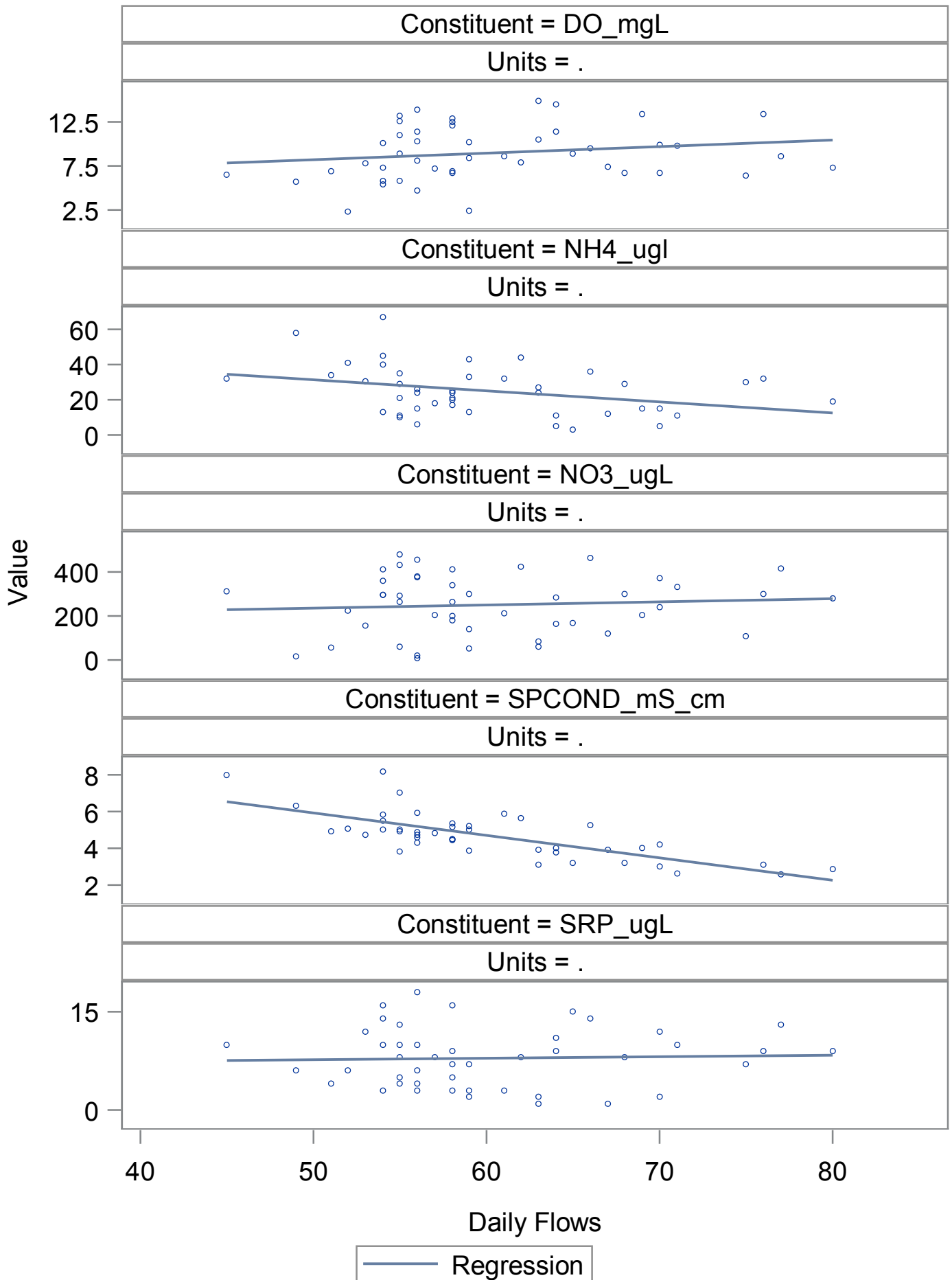


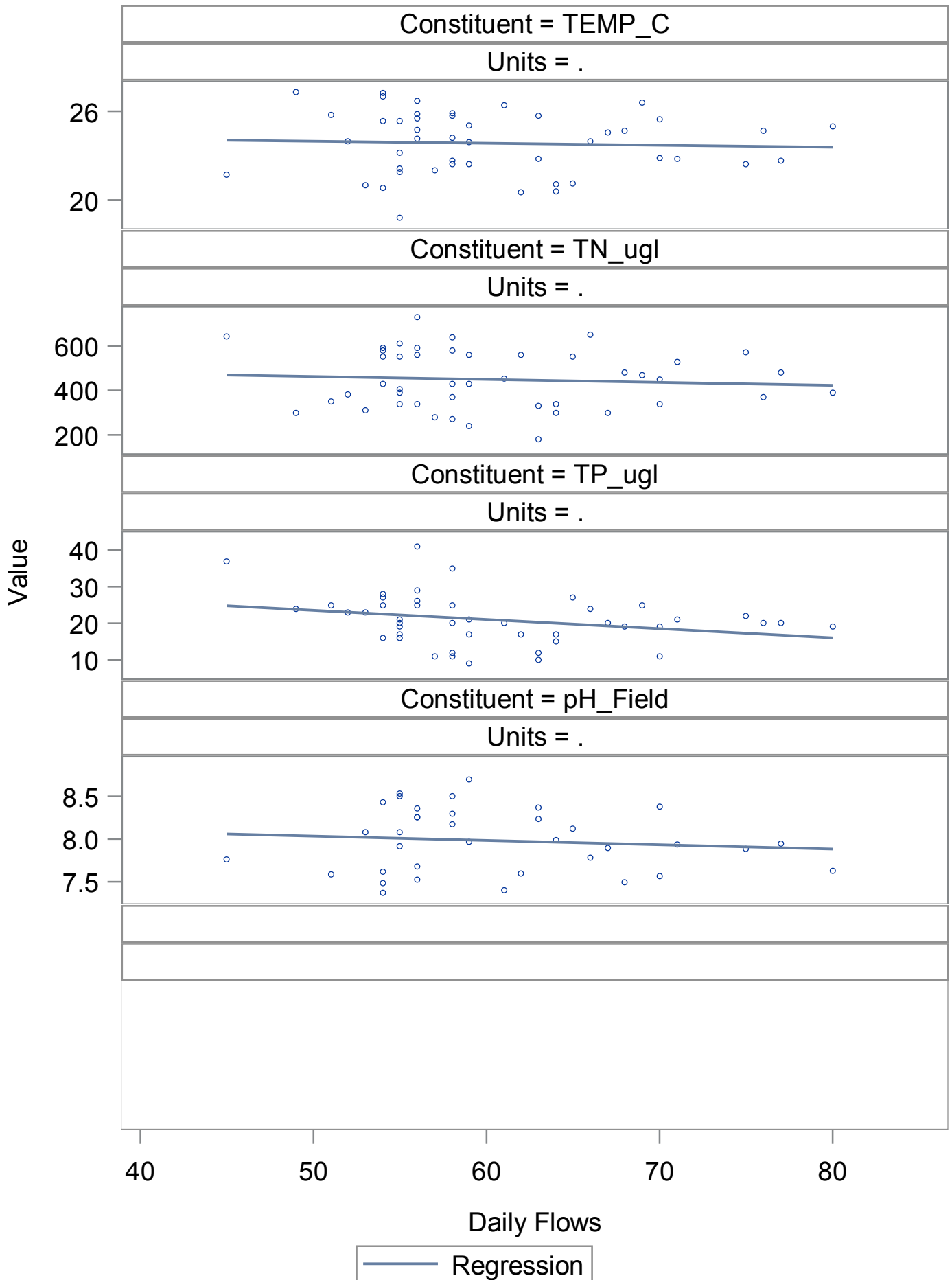


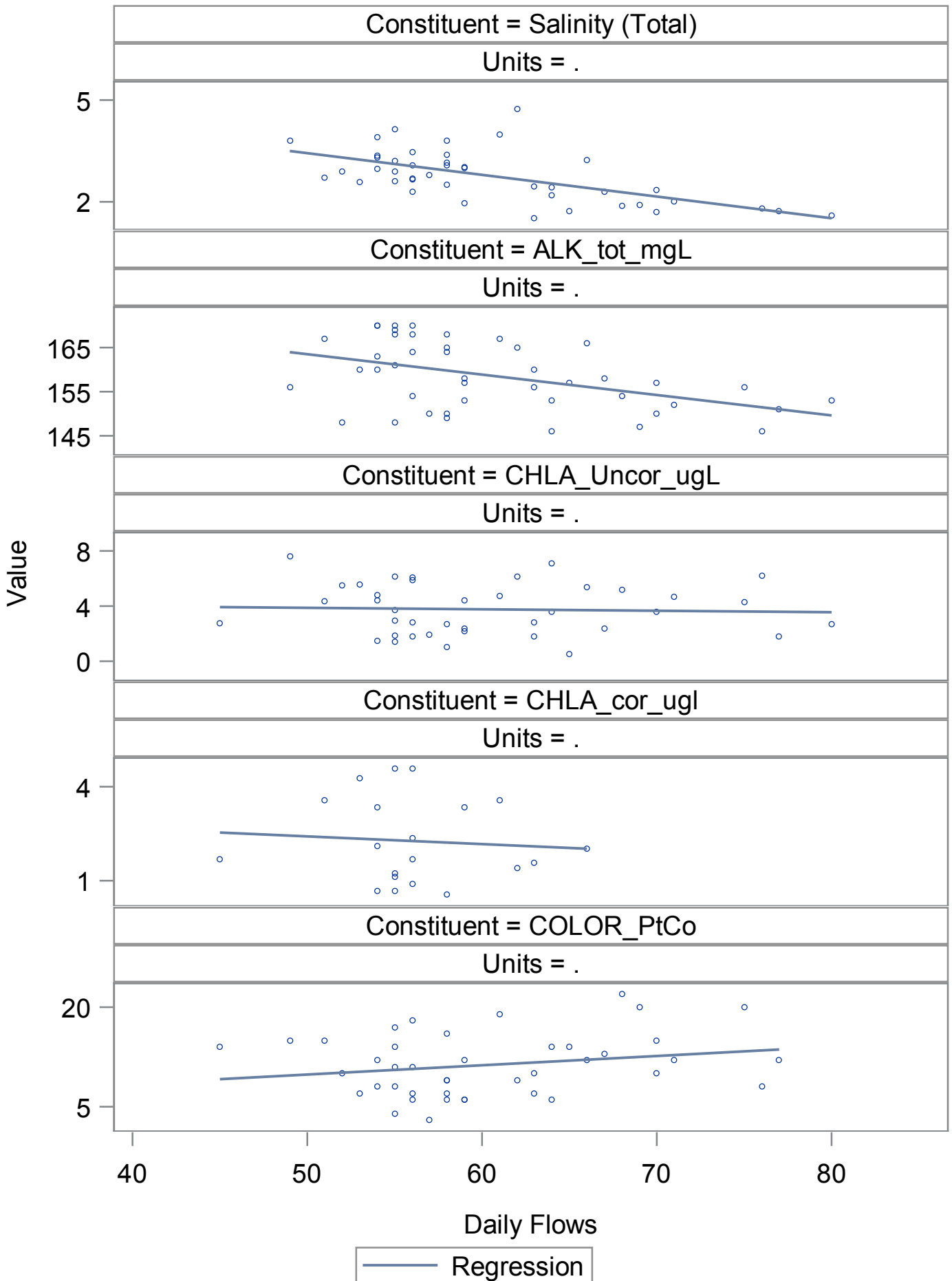


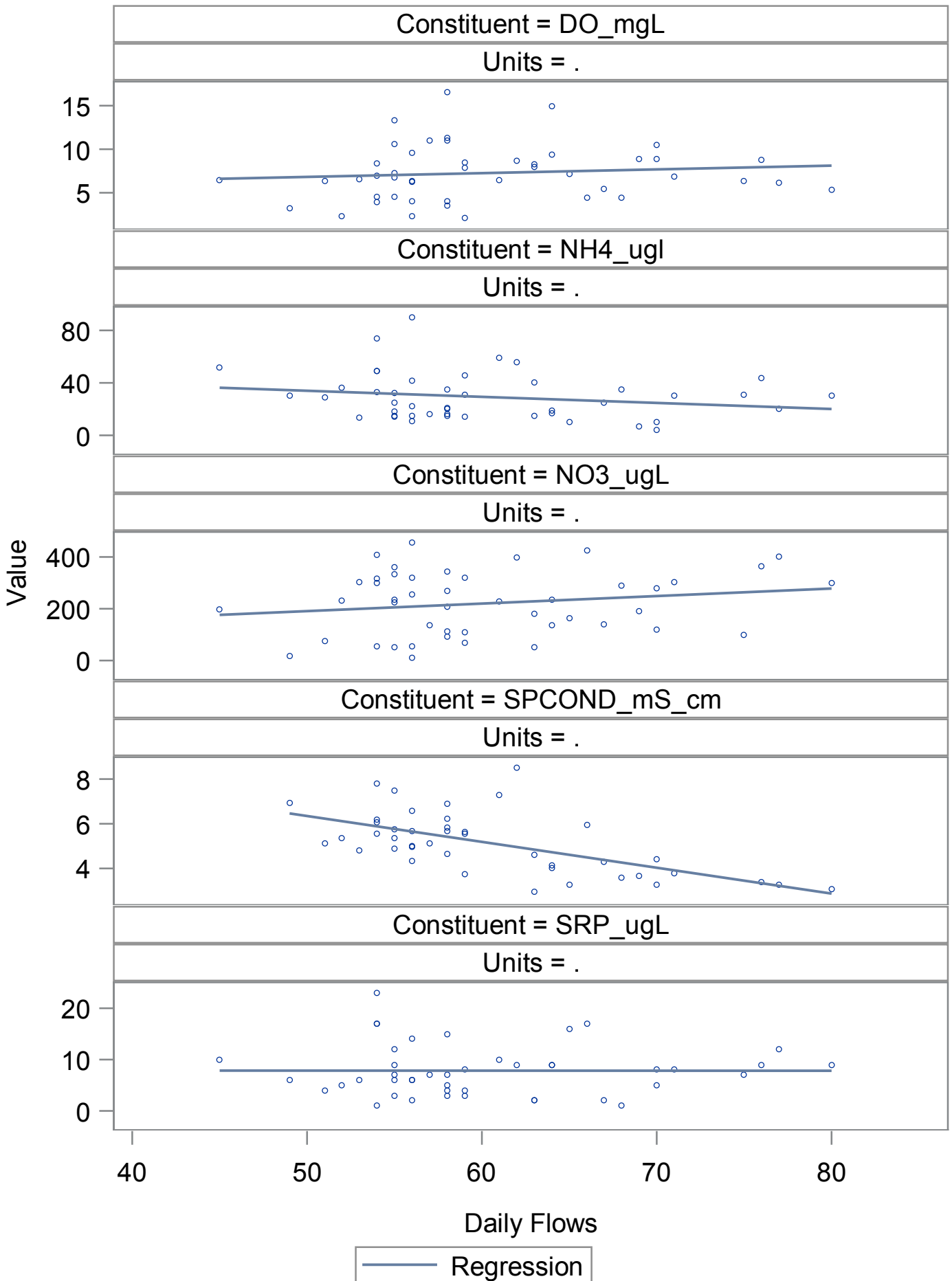


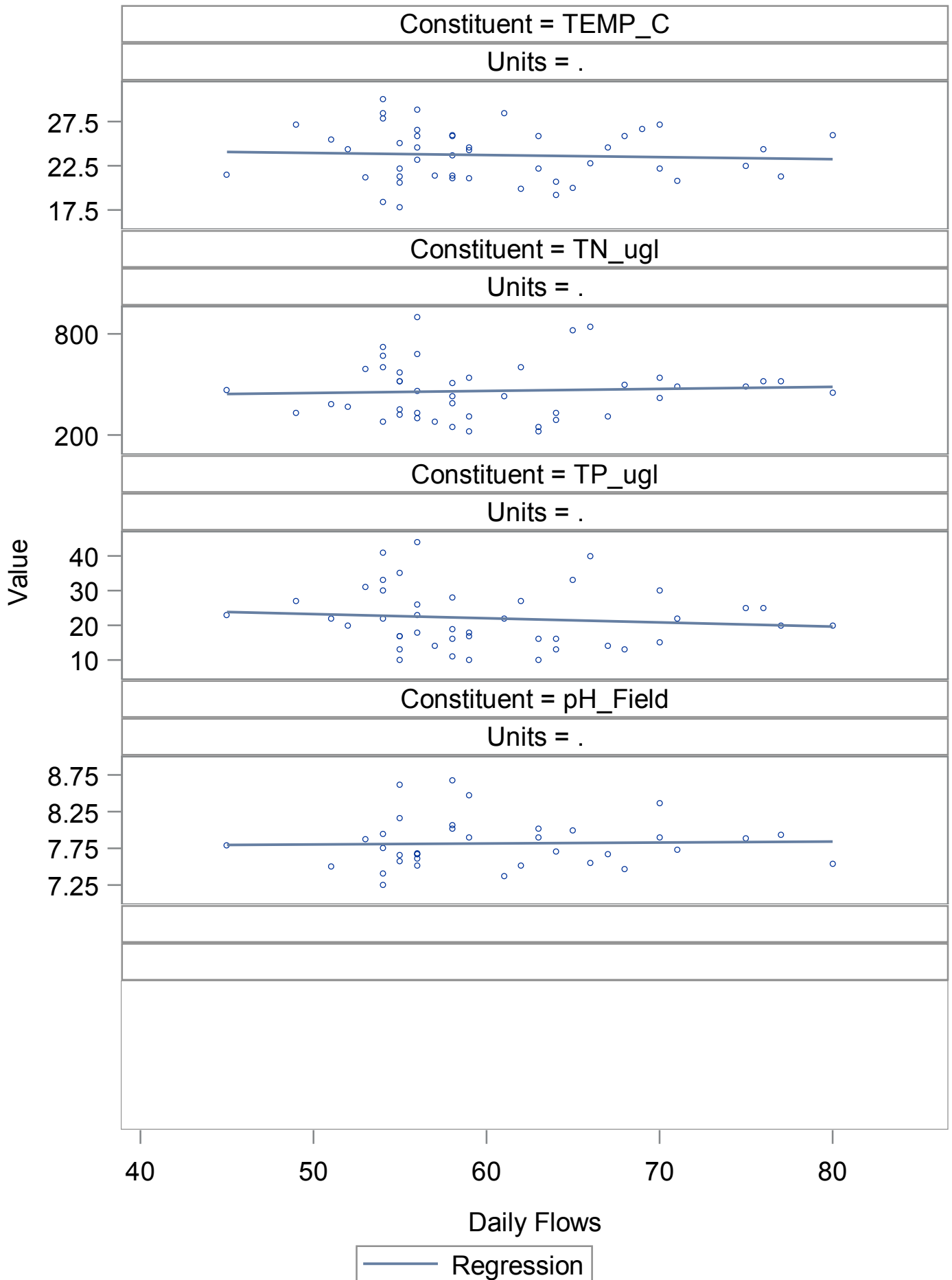


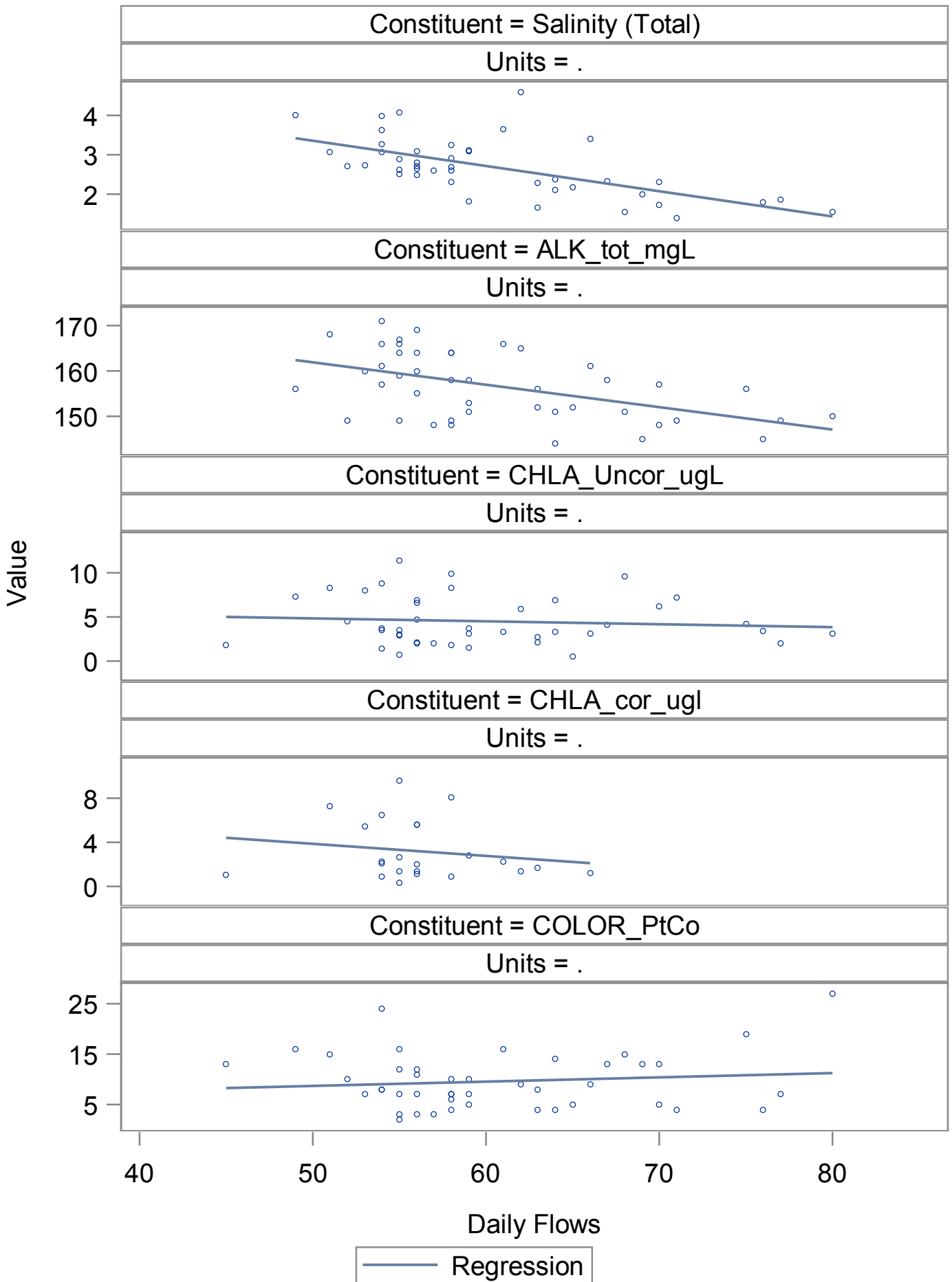


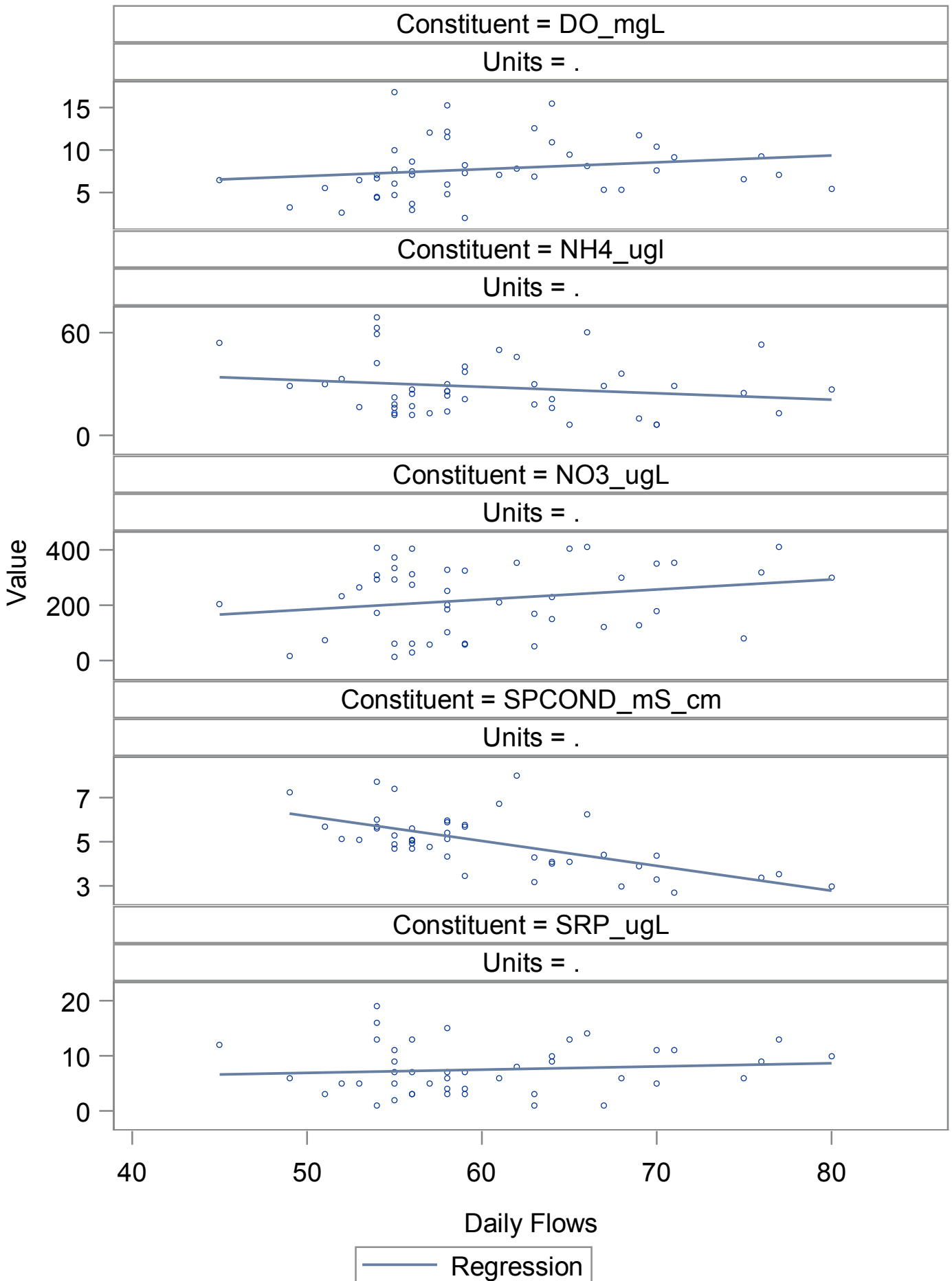


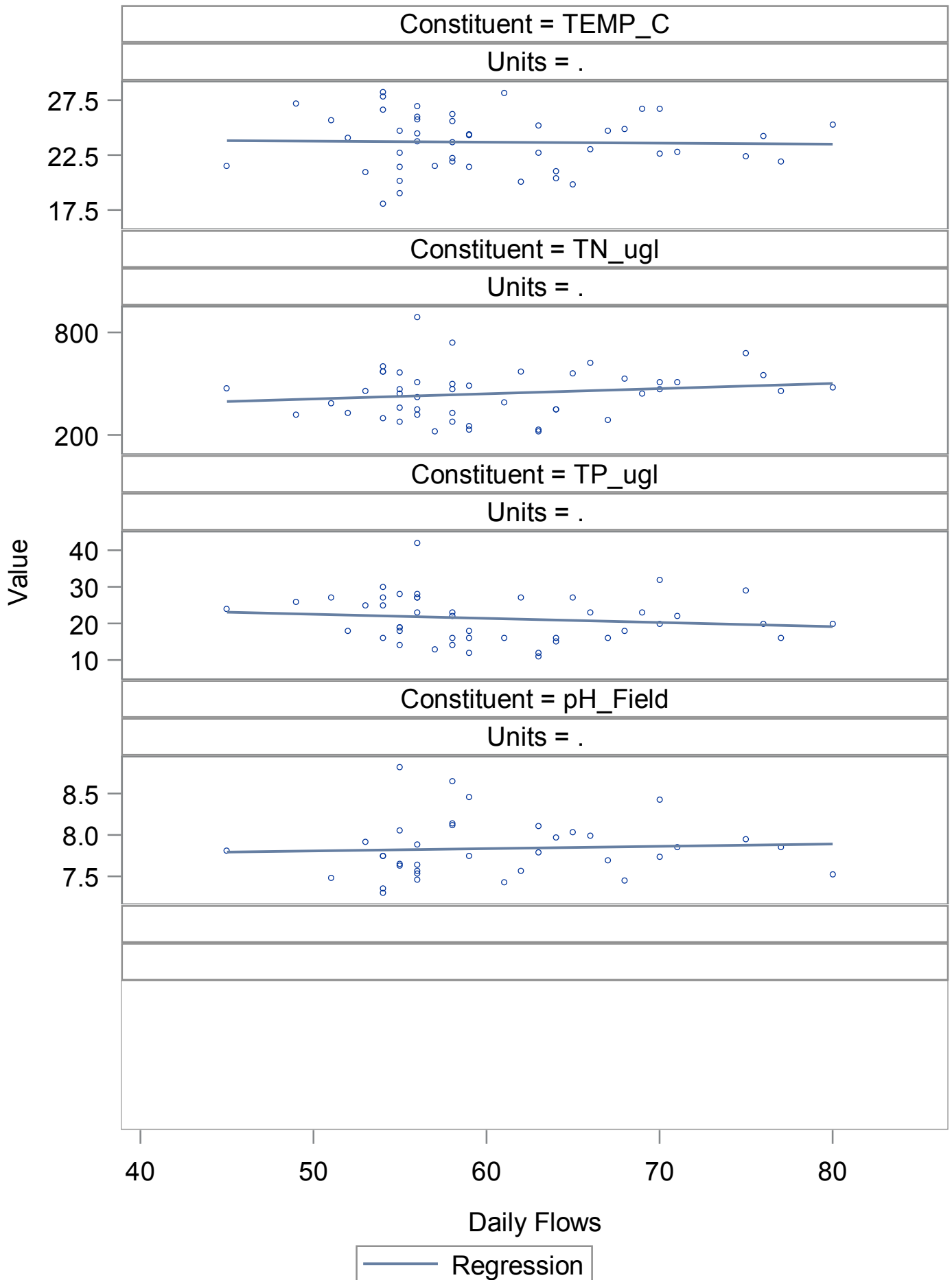


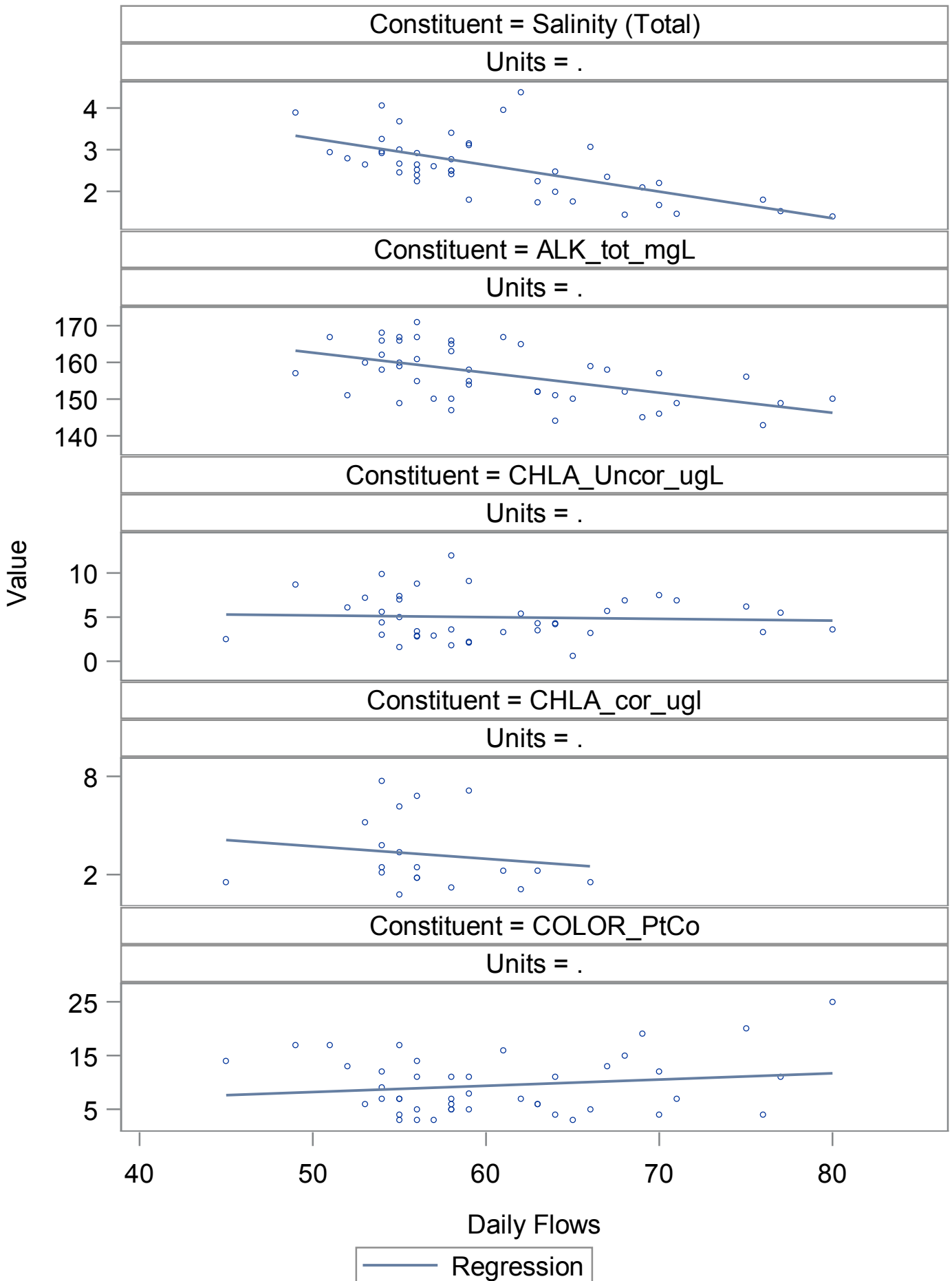


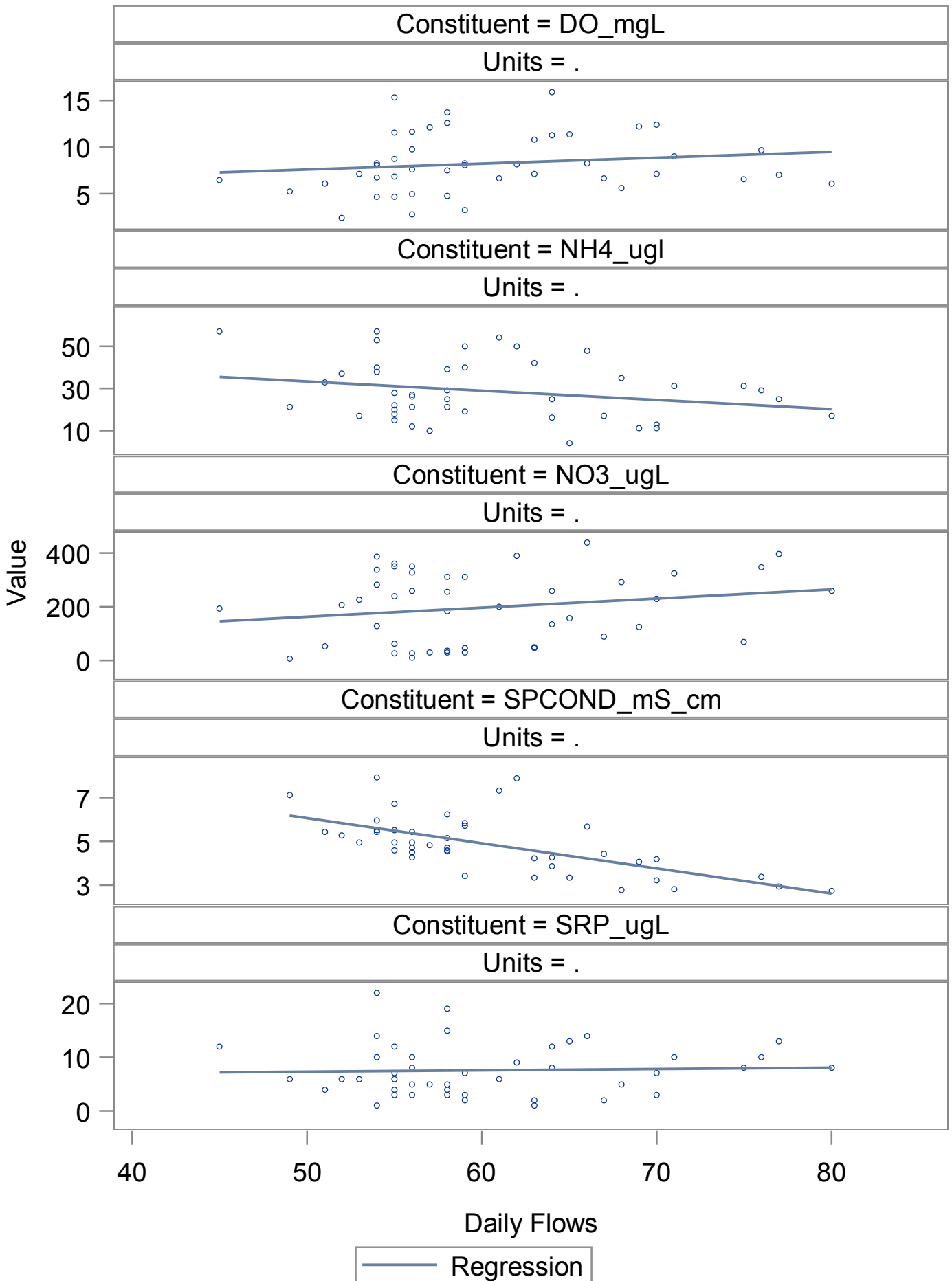


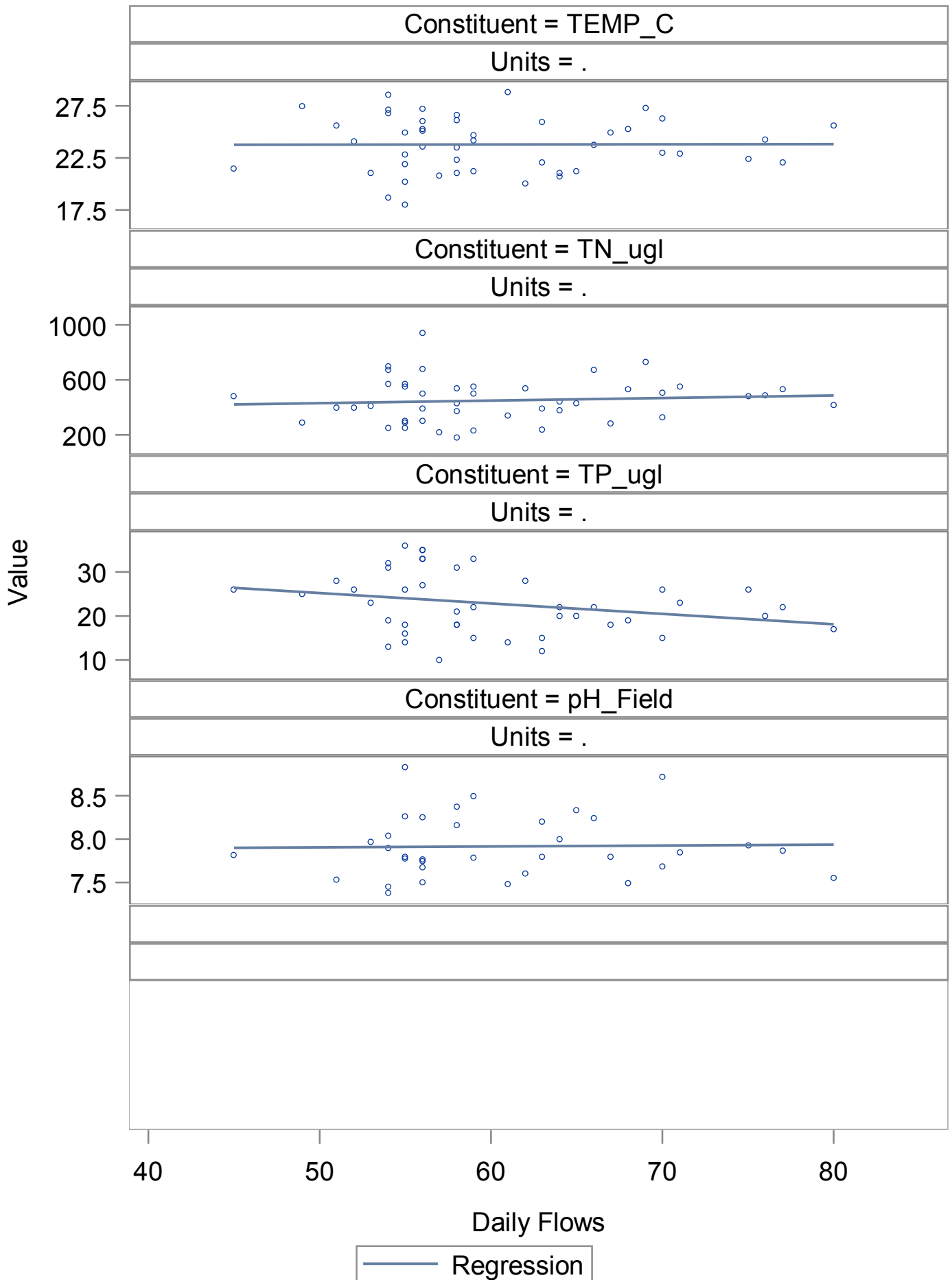


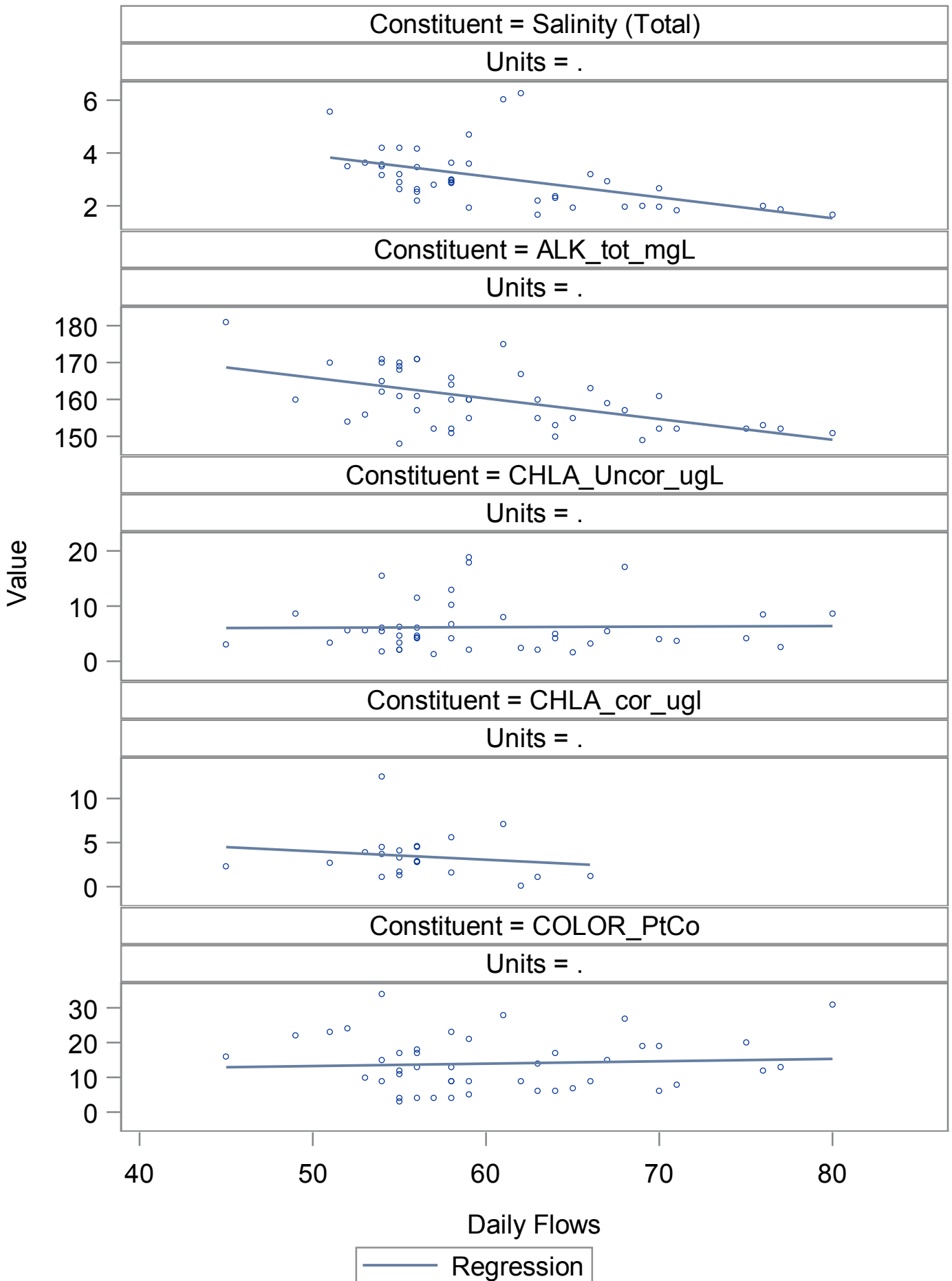


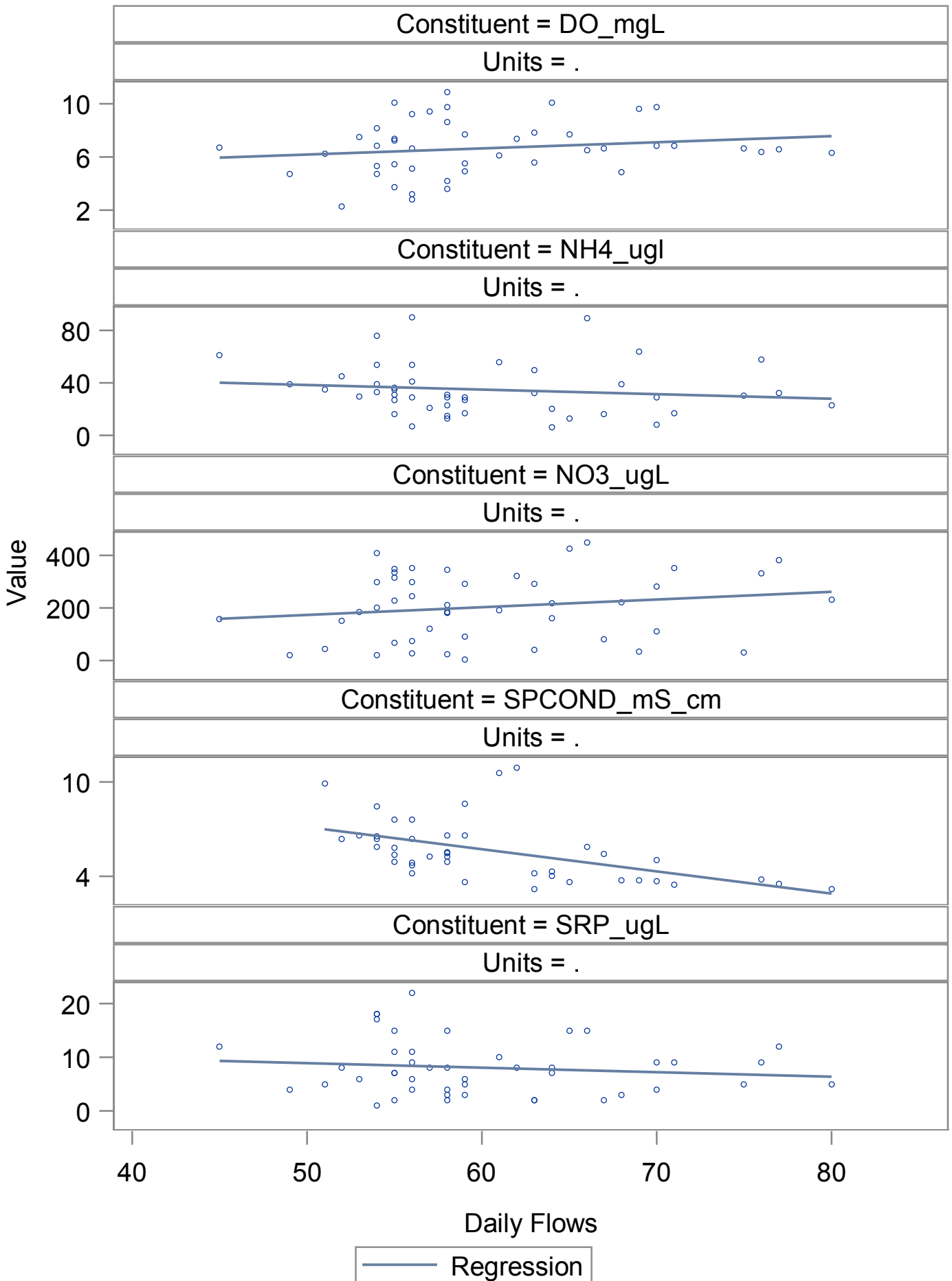


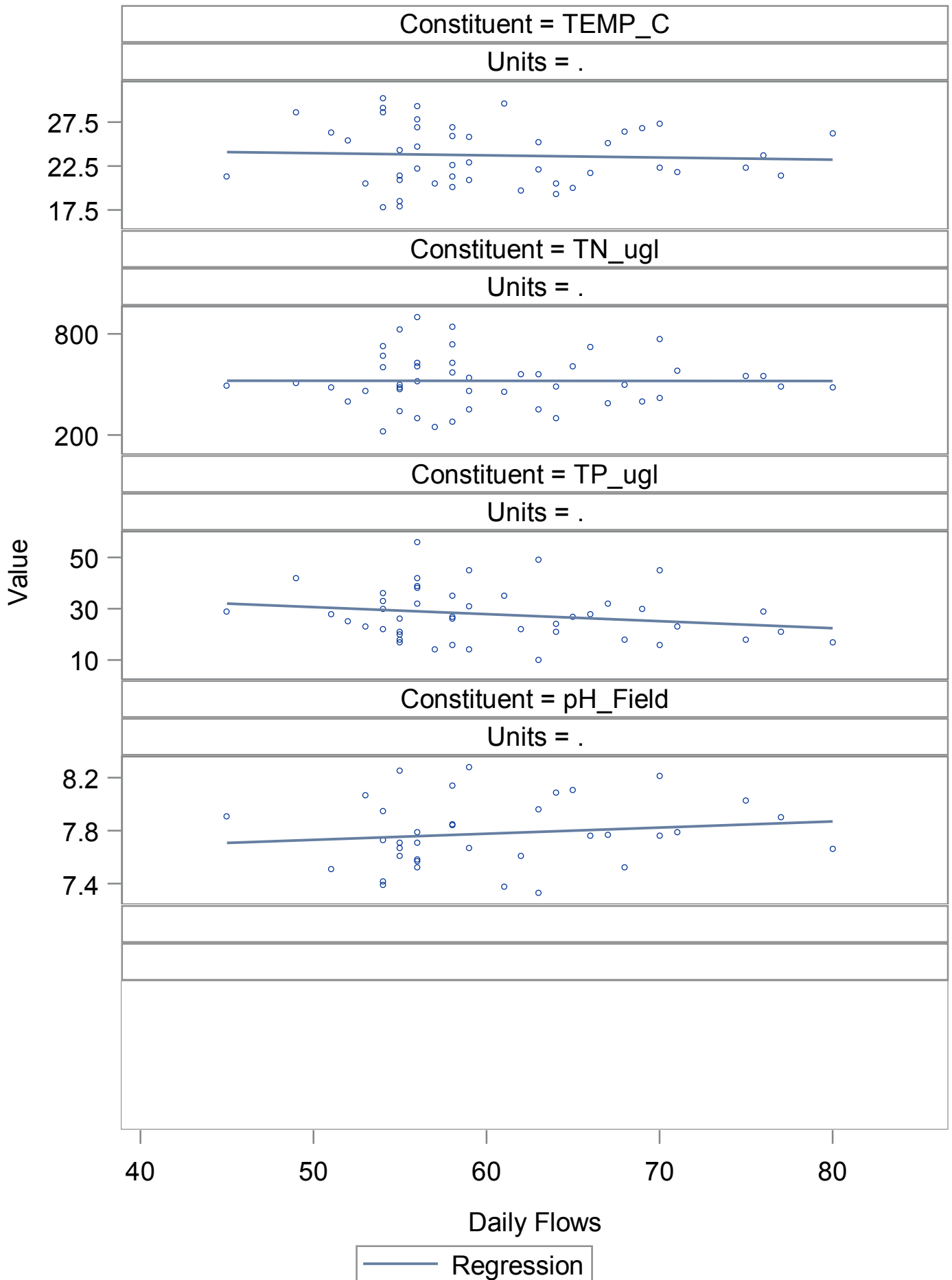


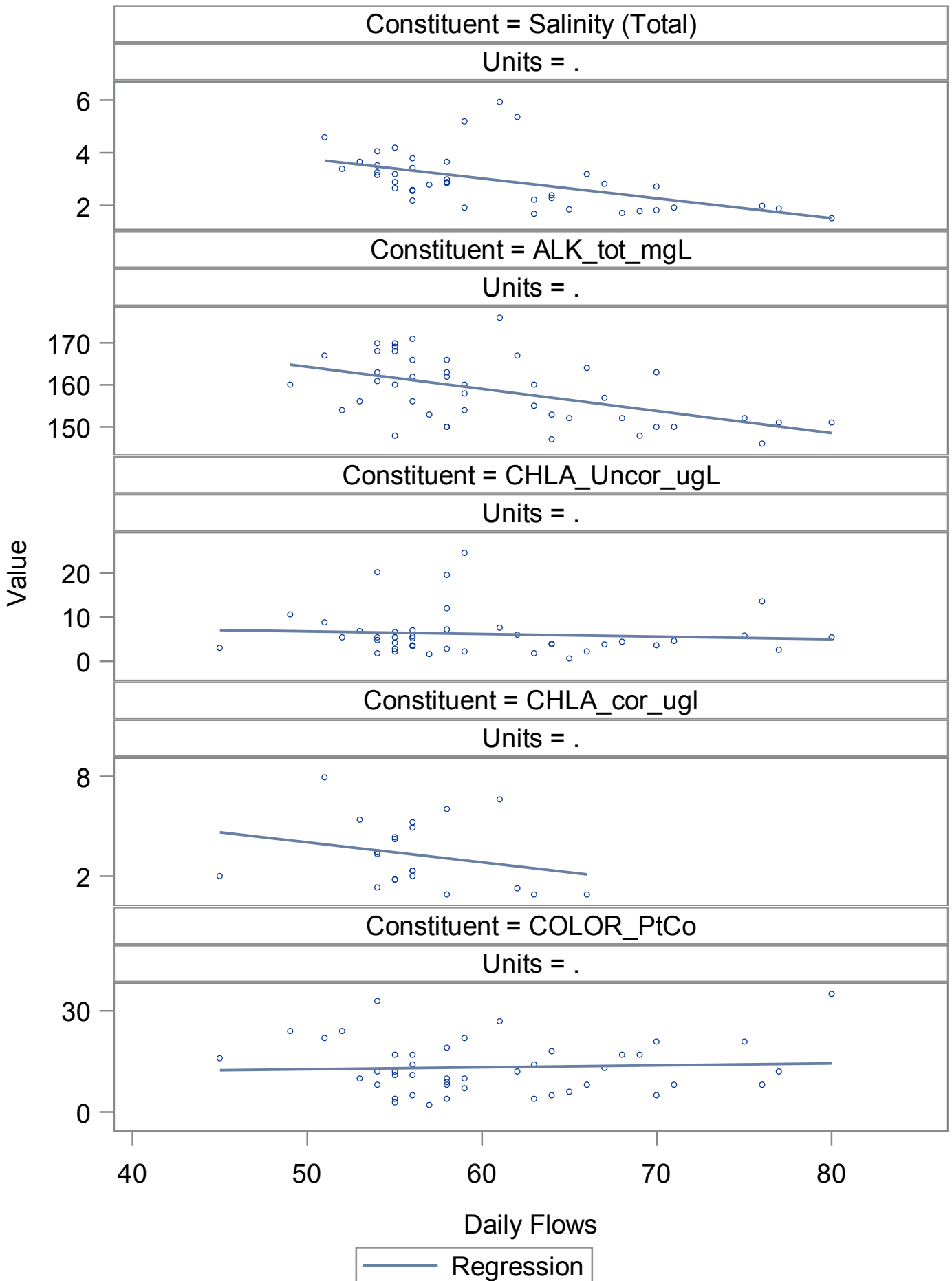


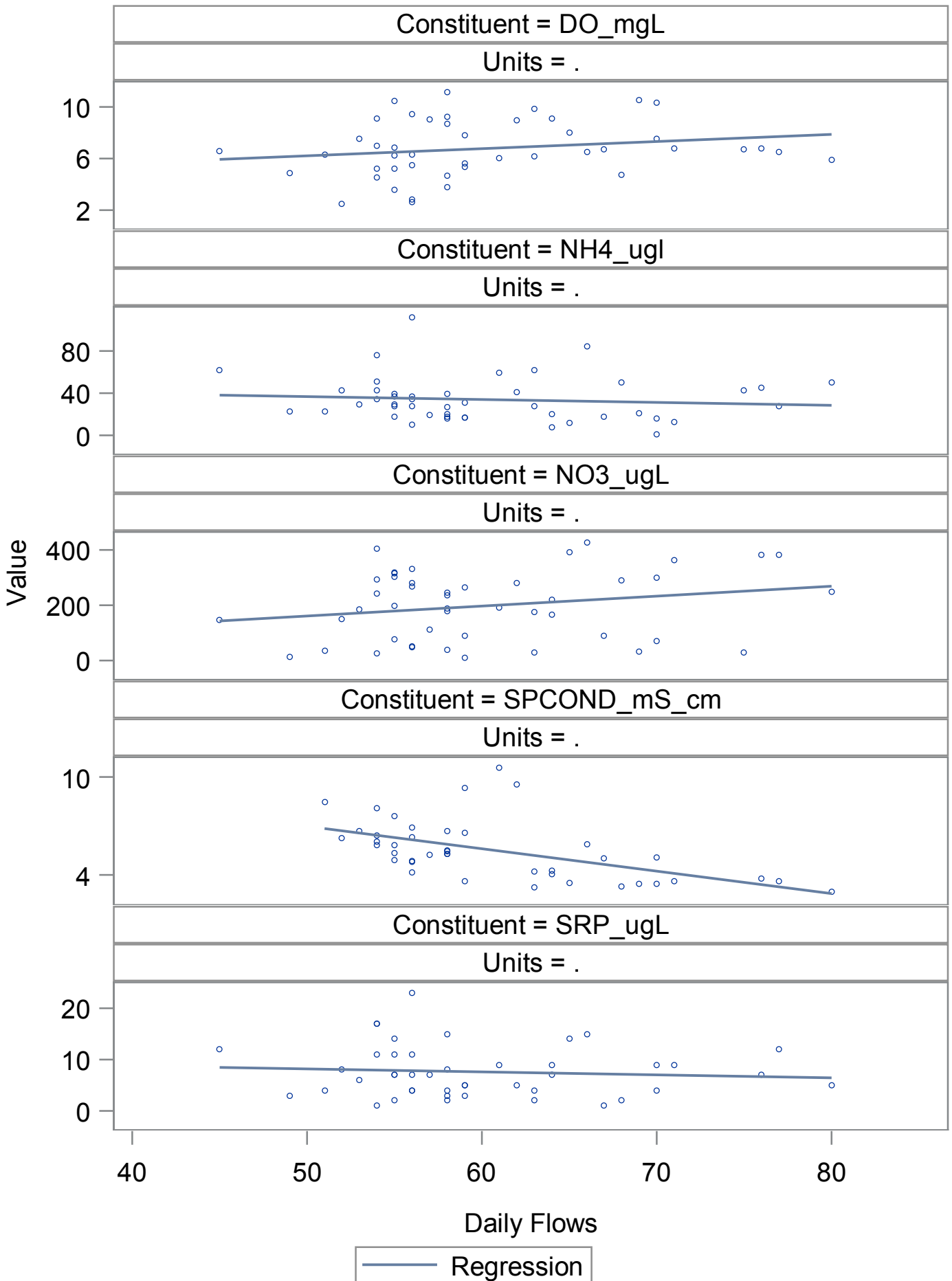


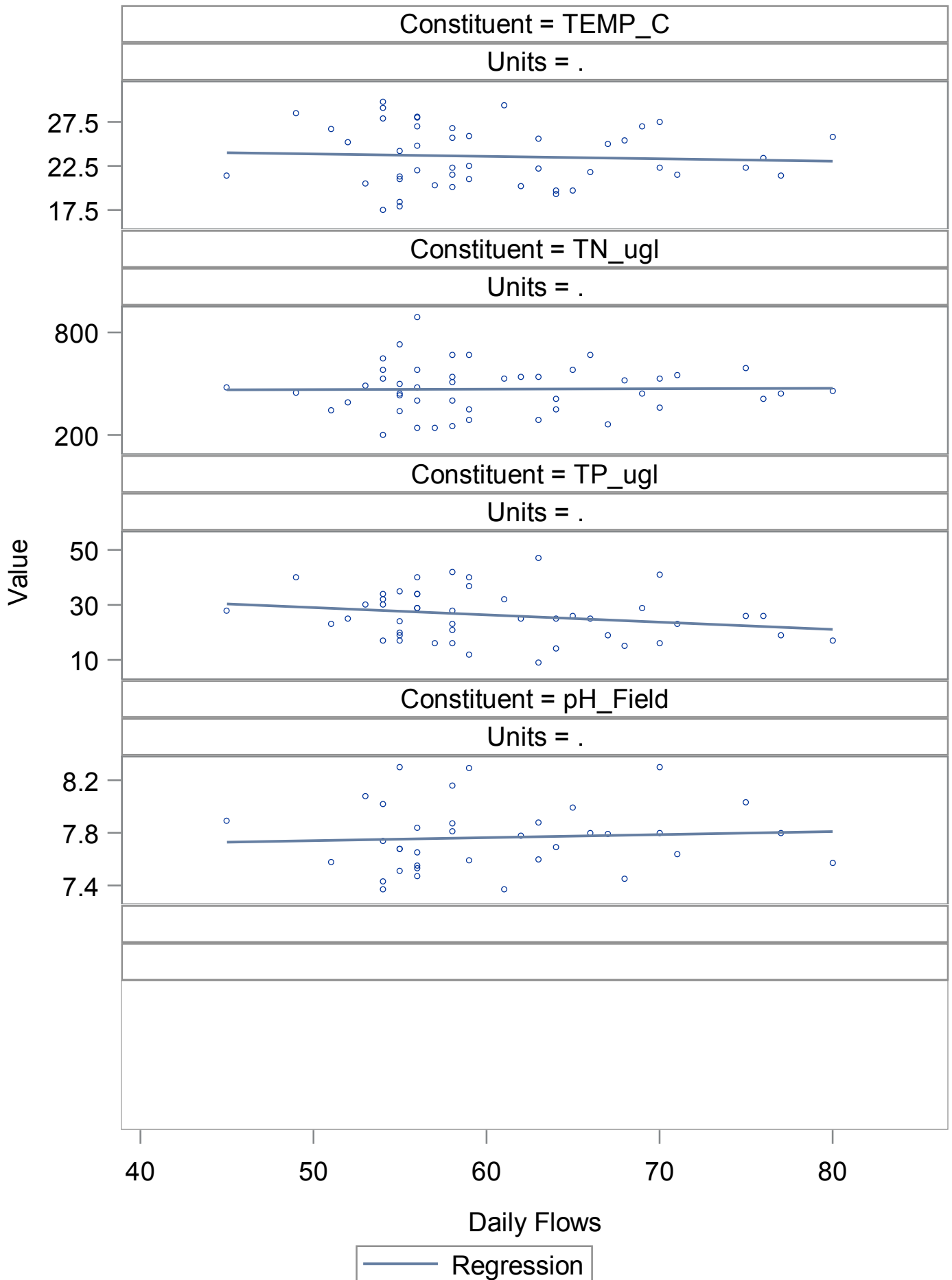


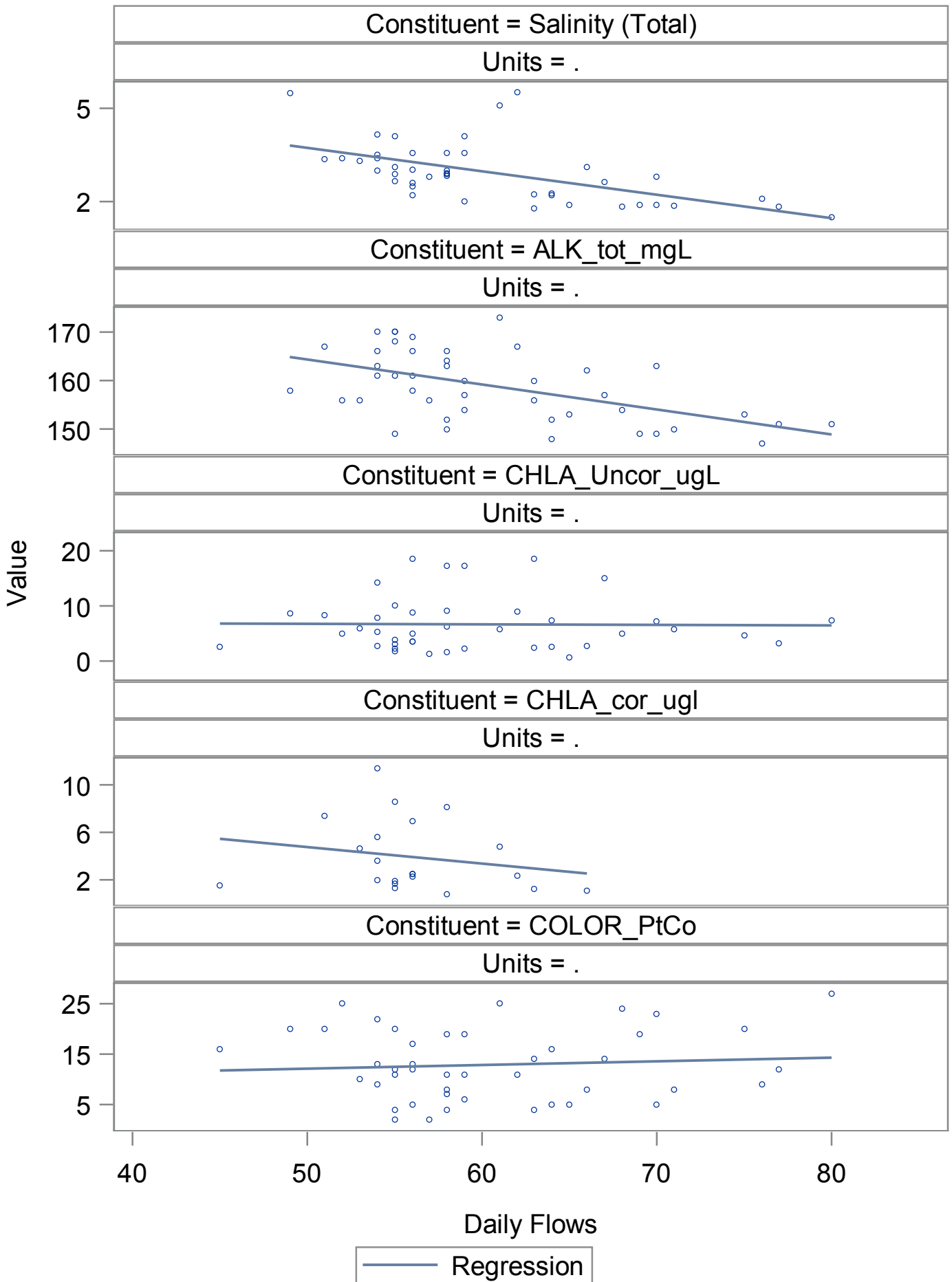


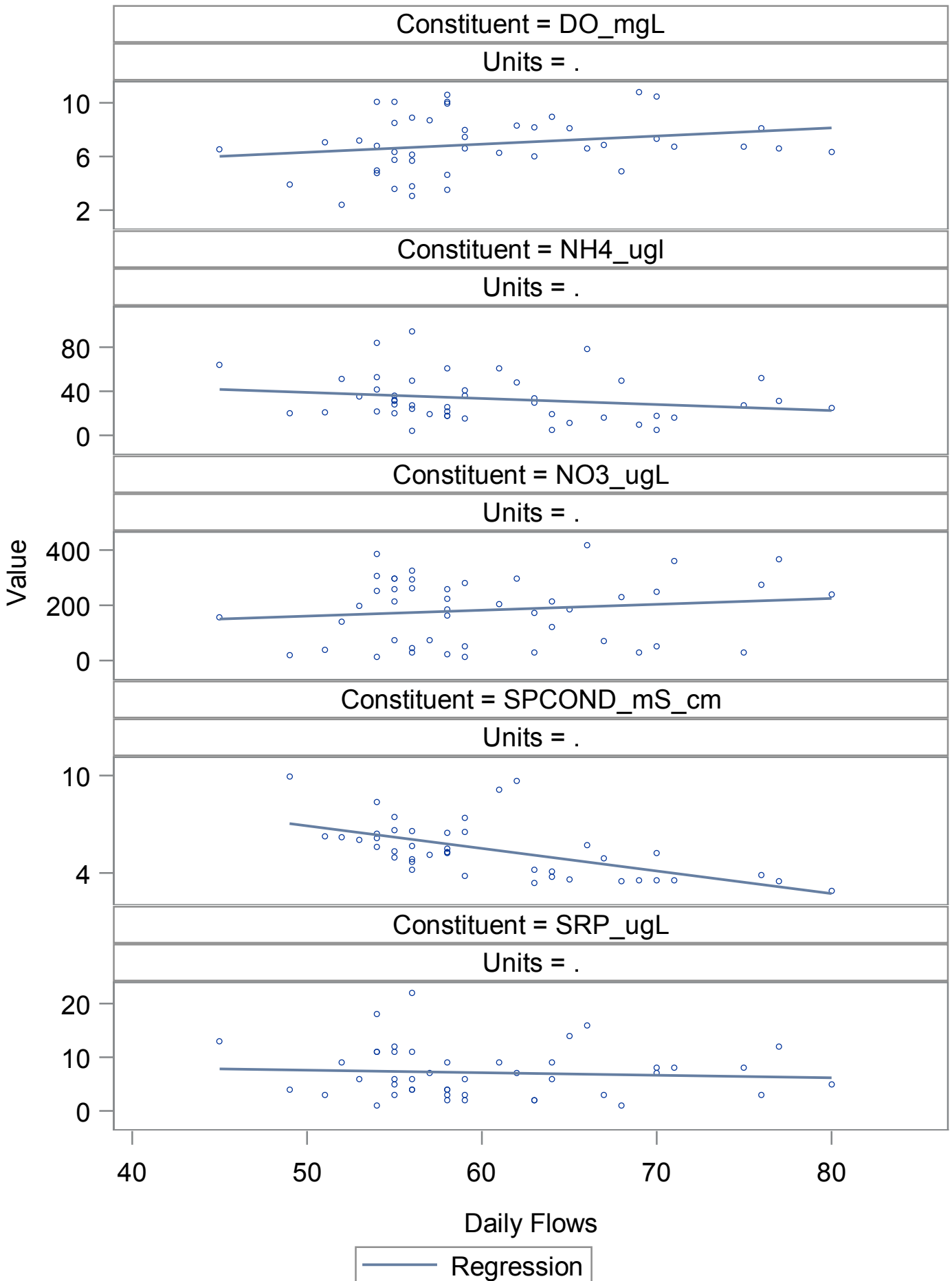


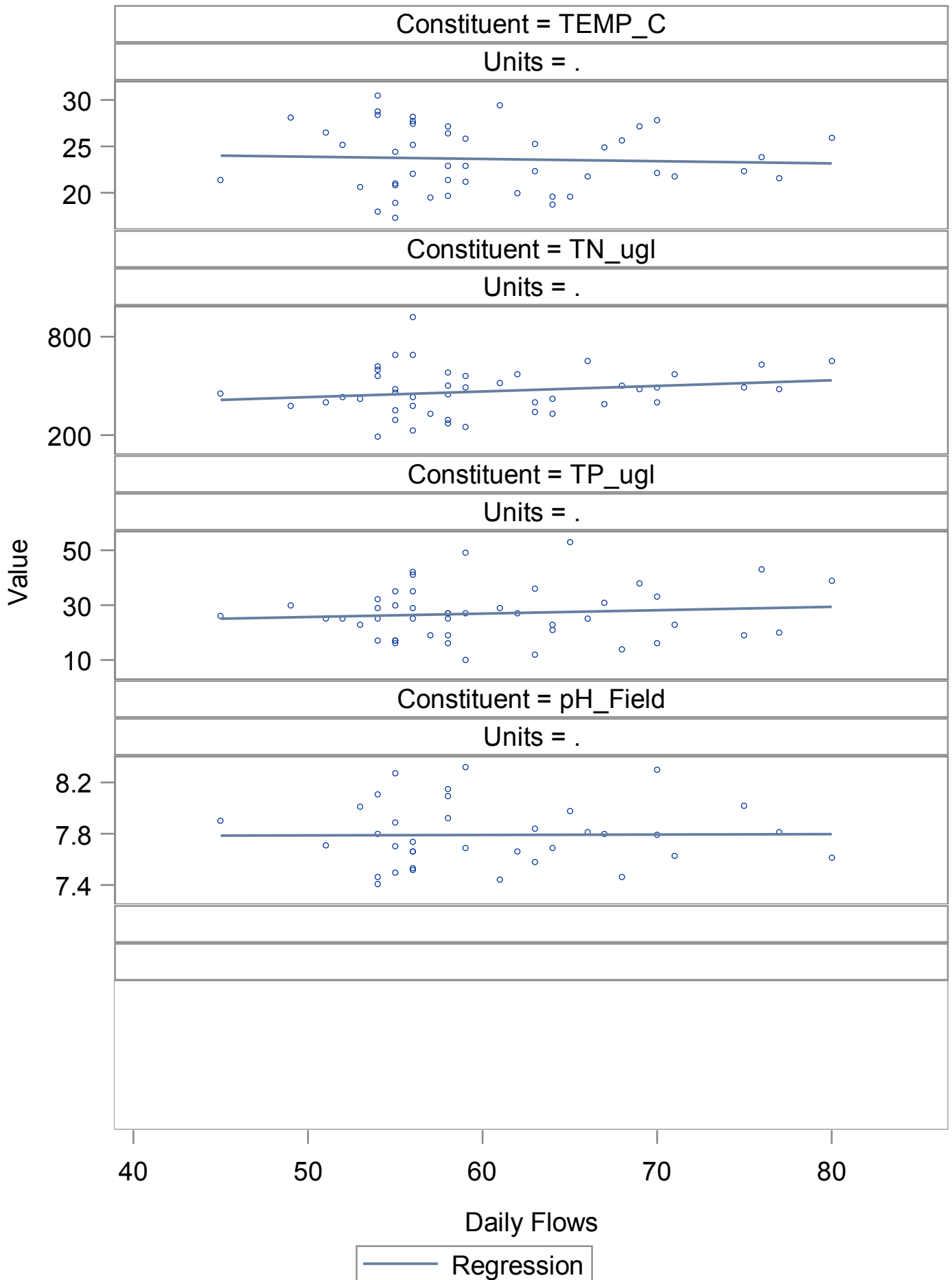








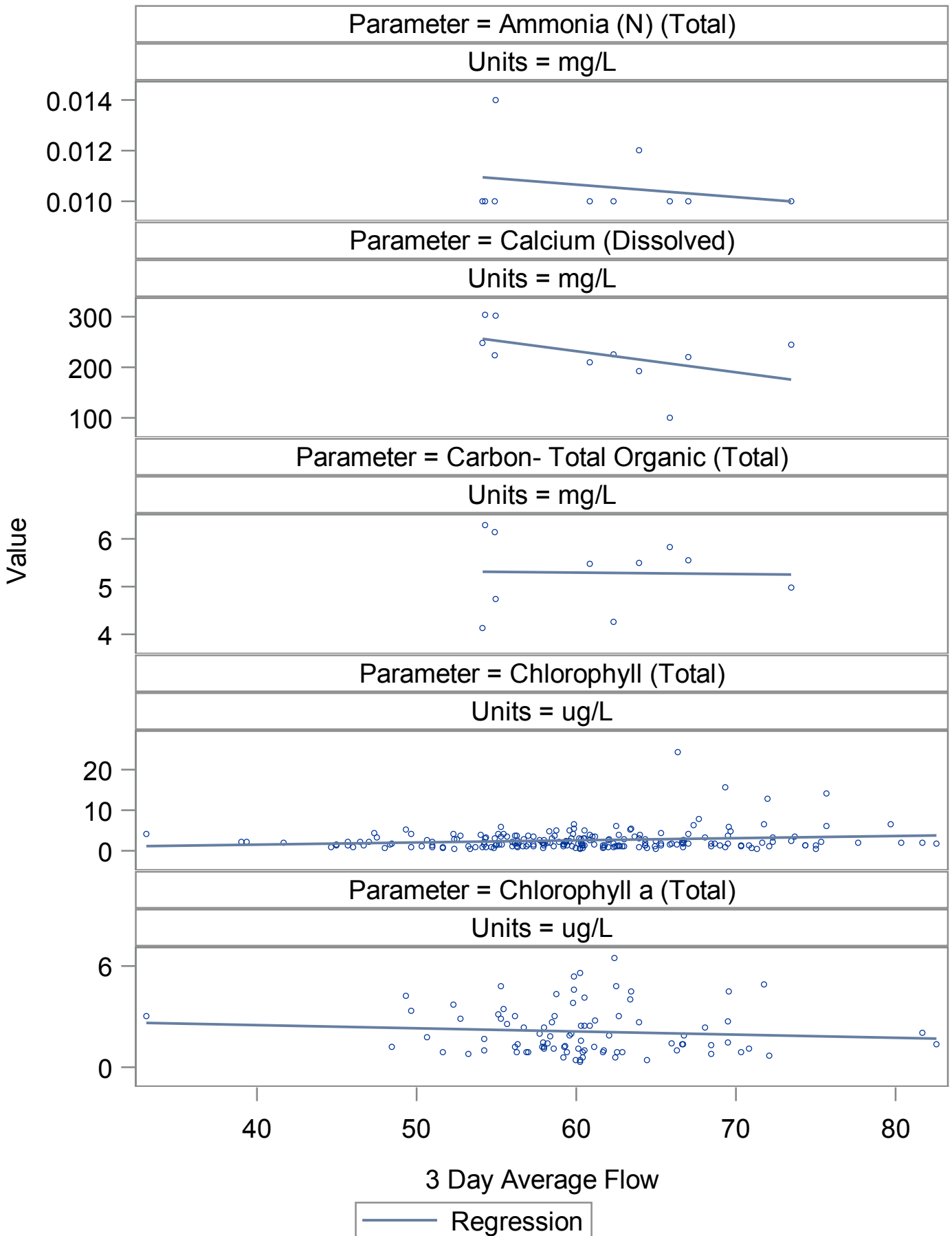




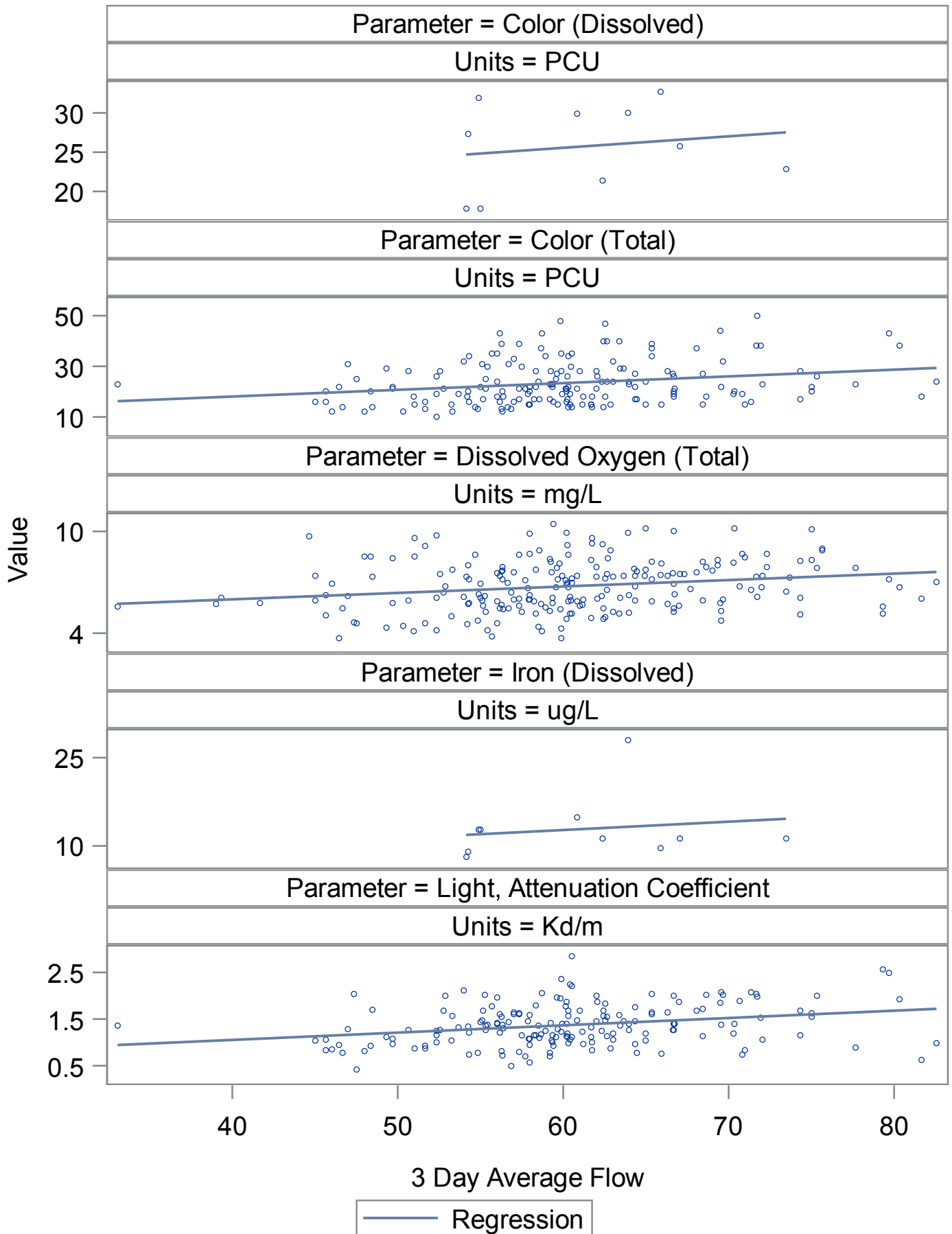
APPENDIX E

Water Quality versus Flow Plots for All Estuary Sites West of the
Mouth of the Chassahowitzka River

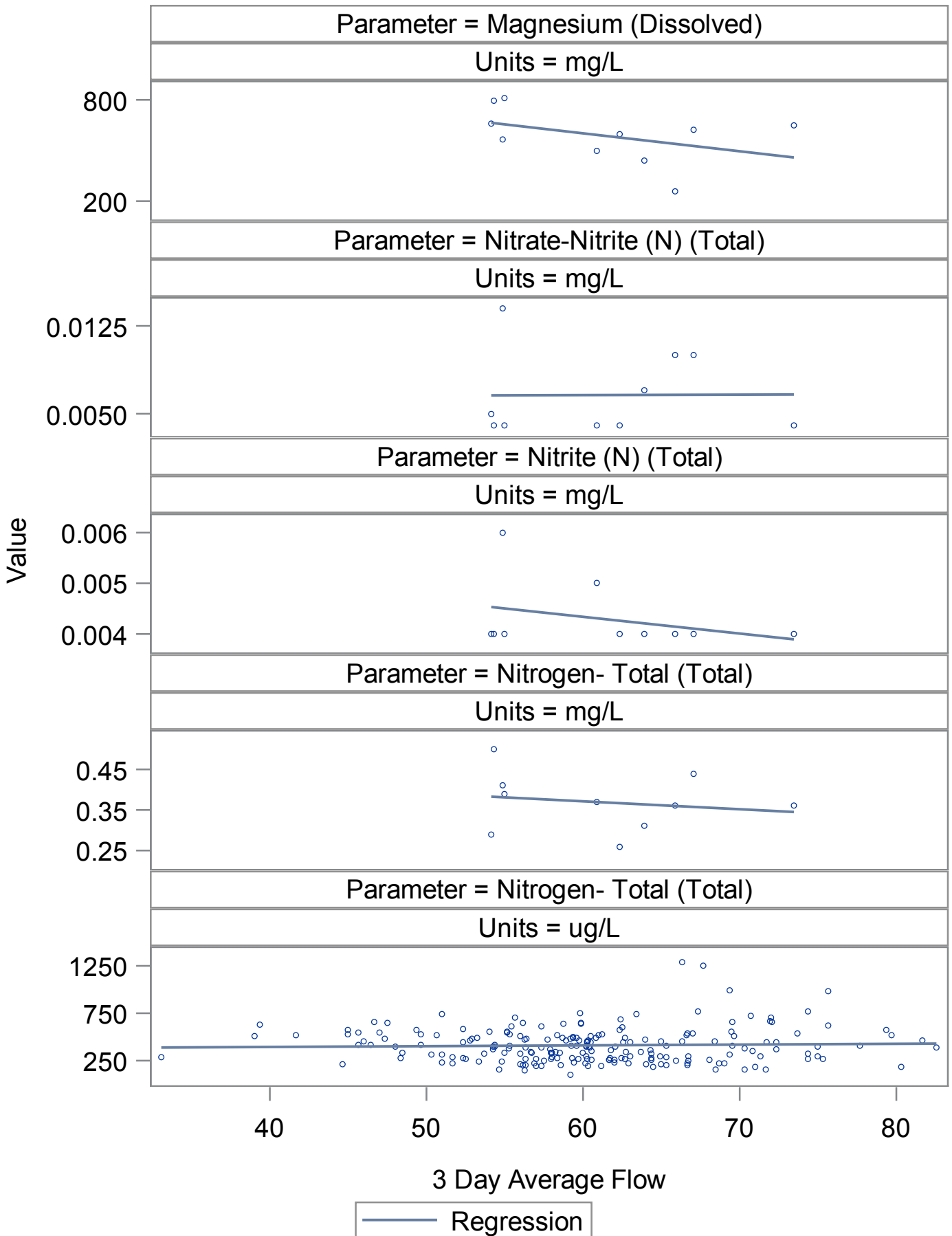
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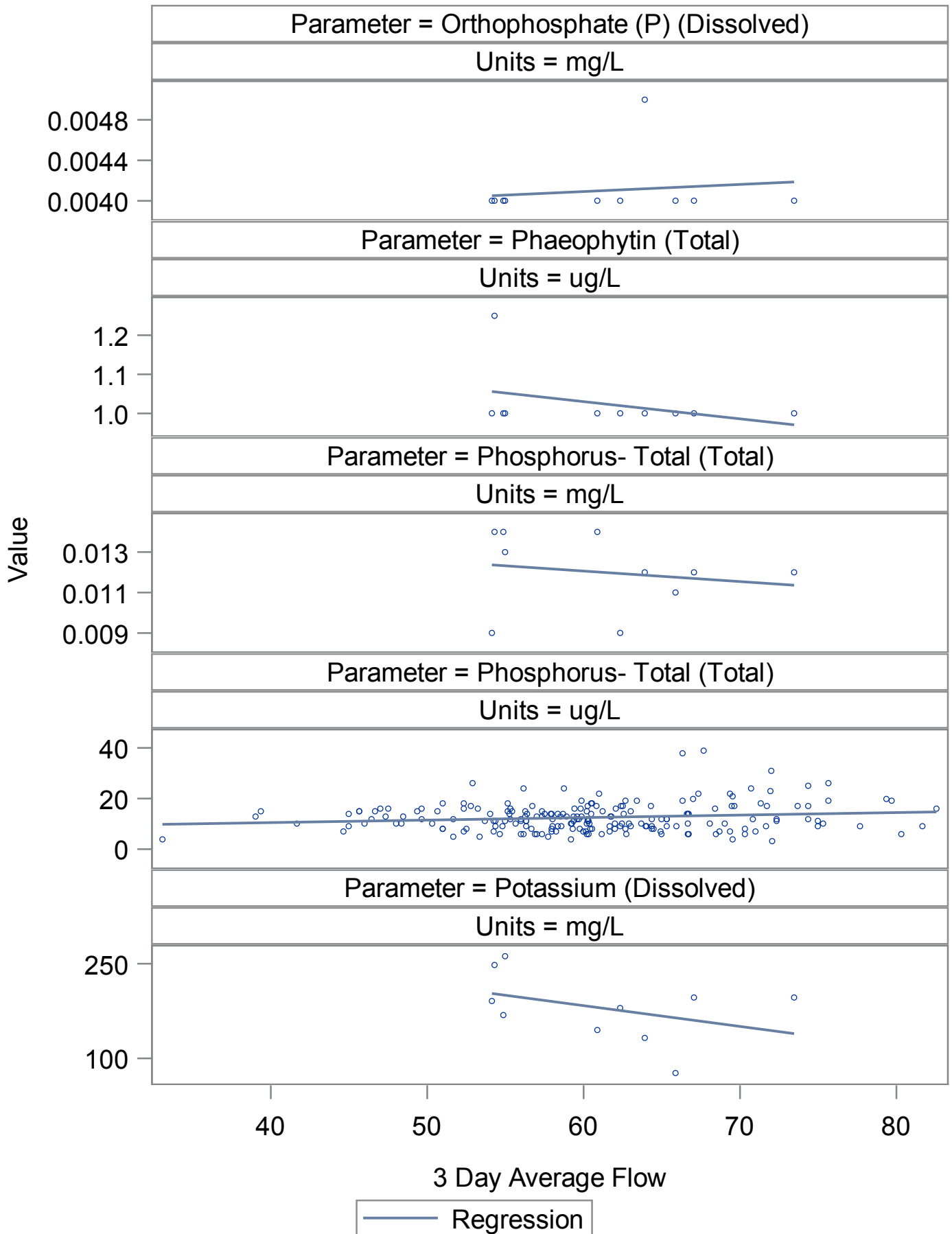
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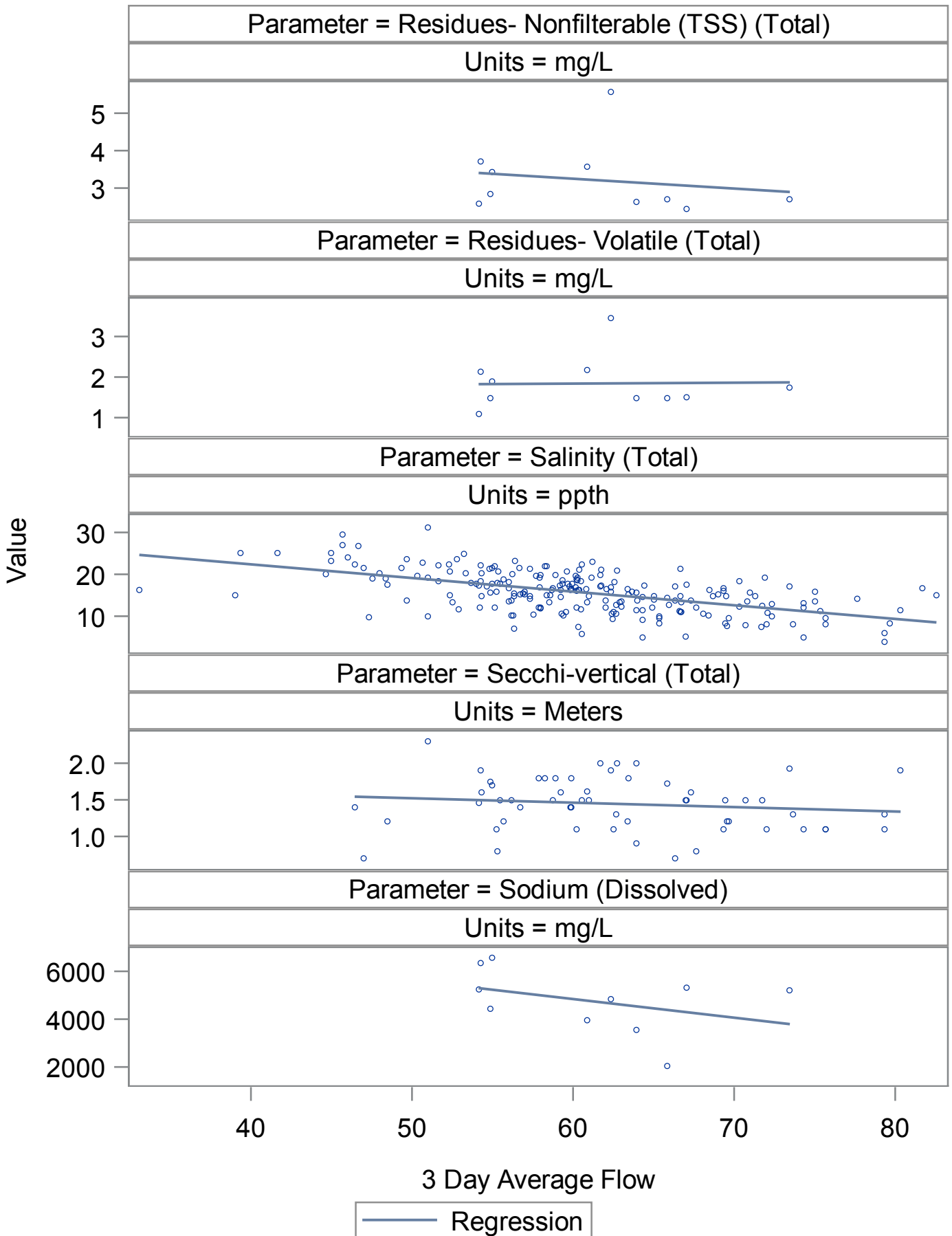
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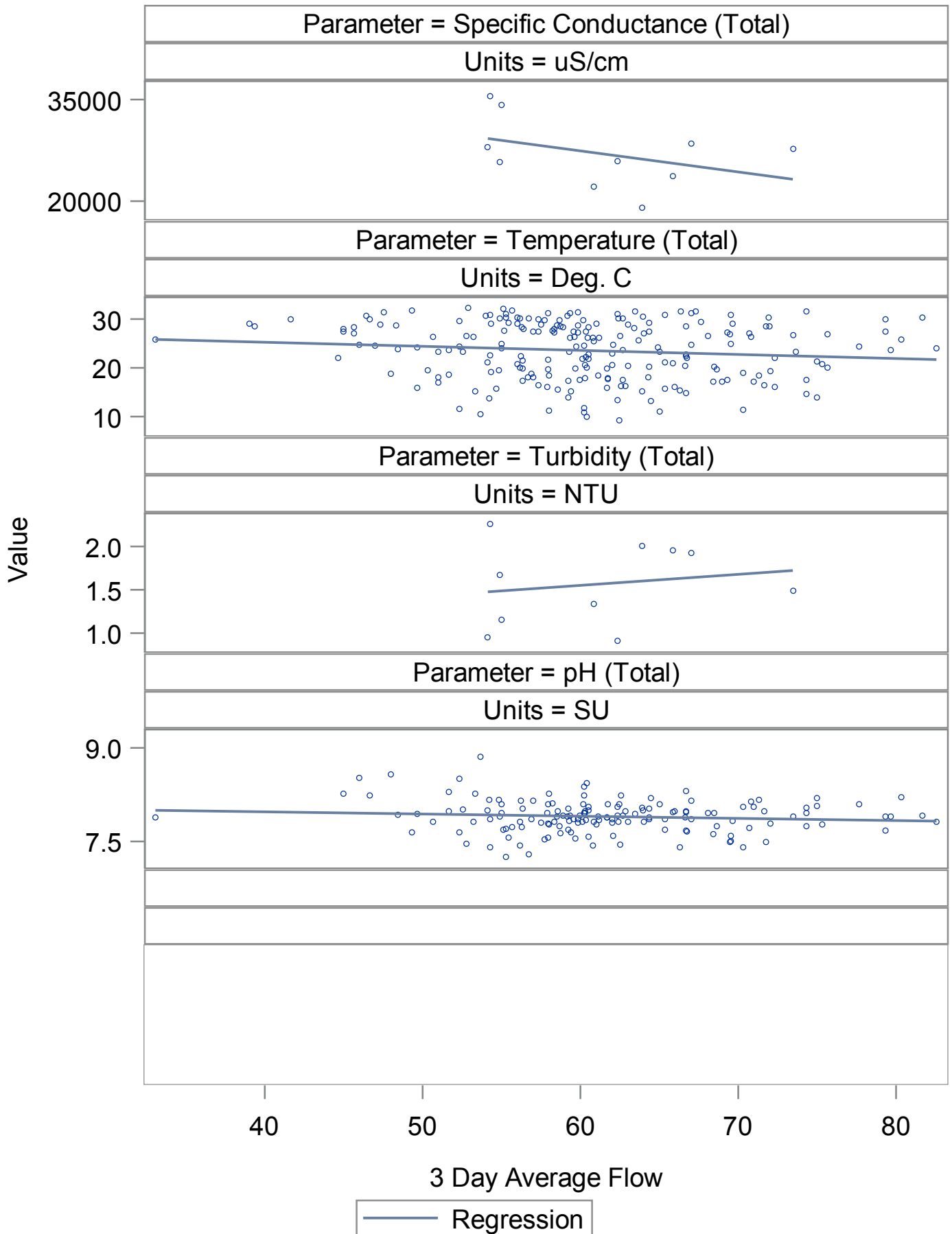
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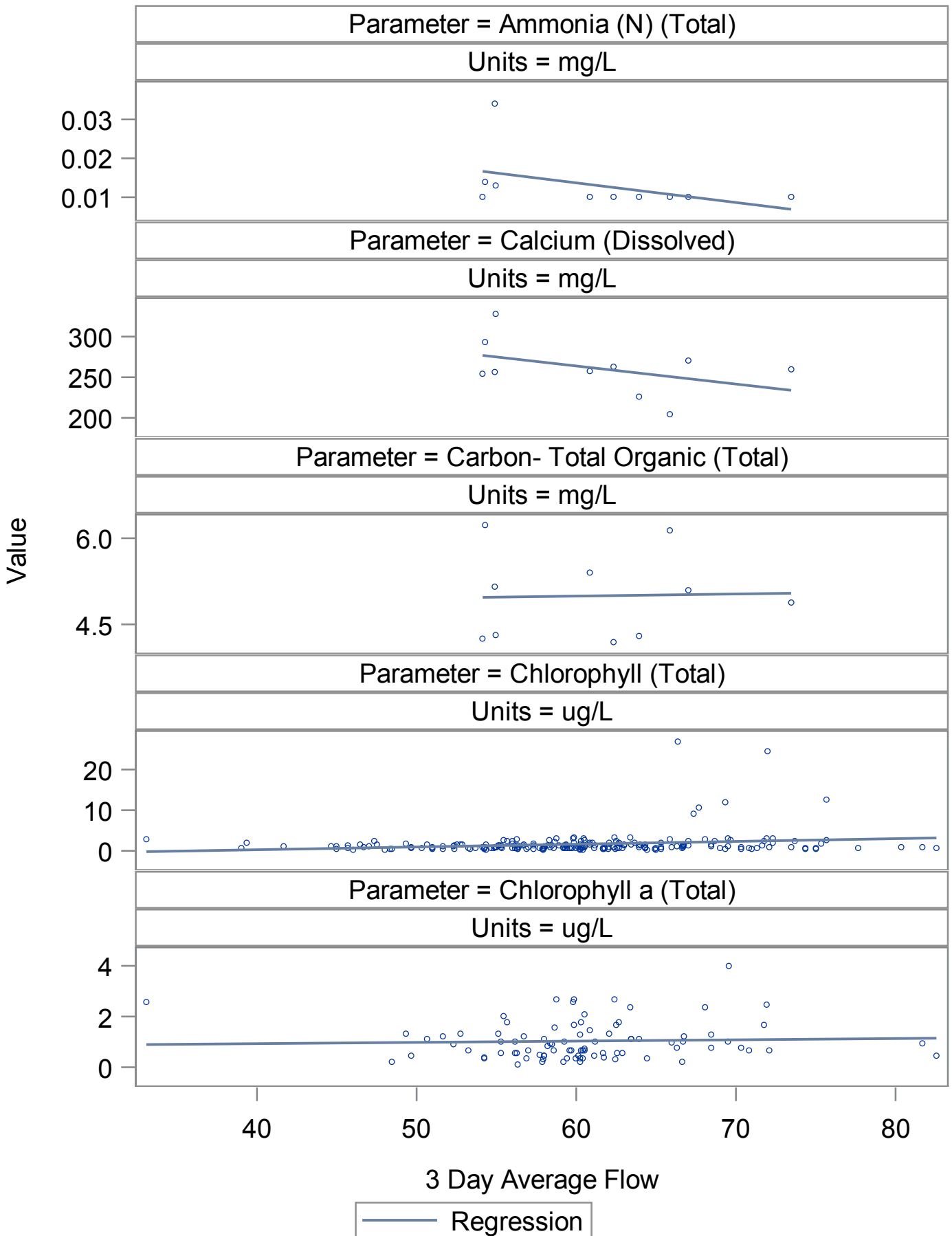
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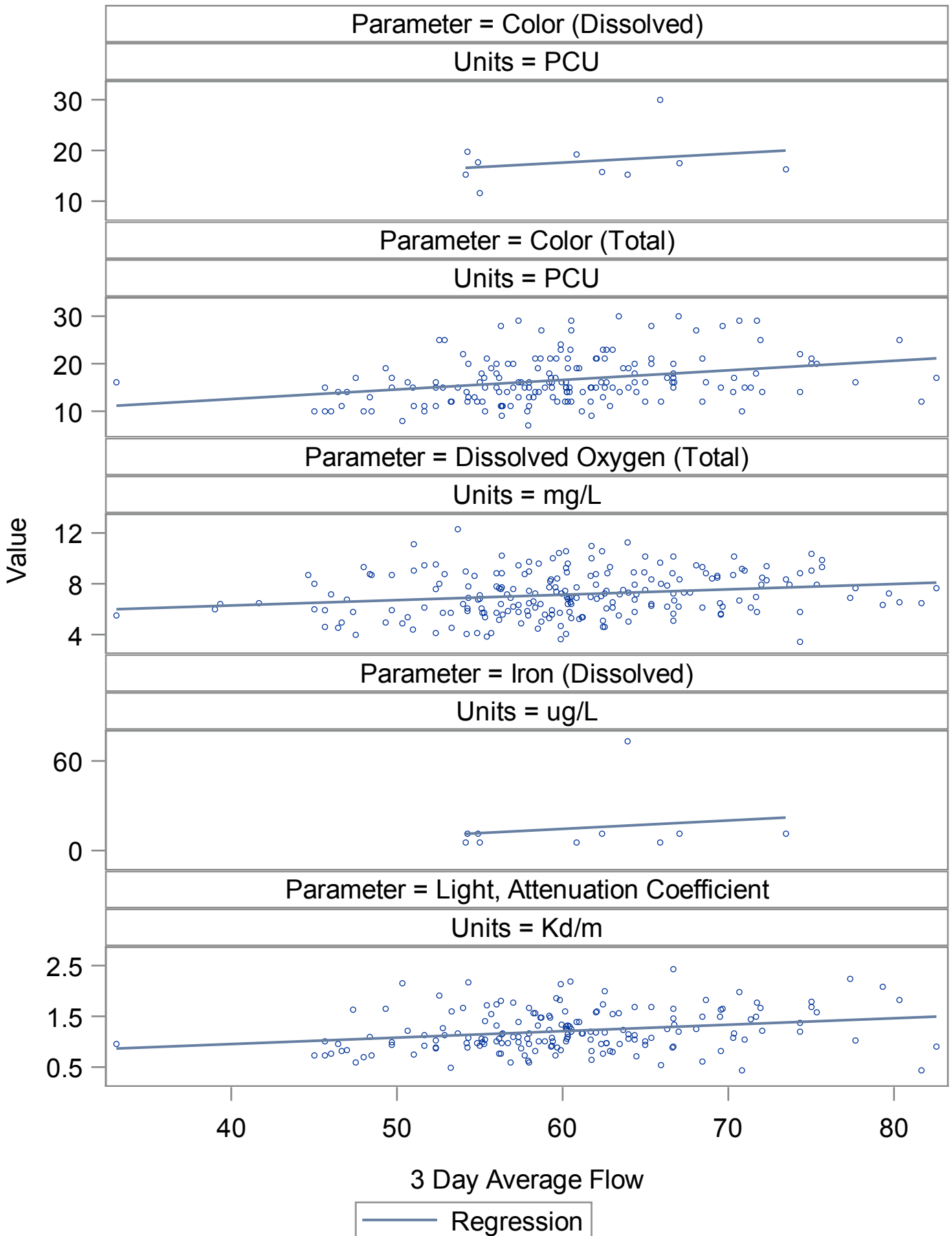
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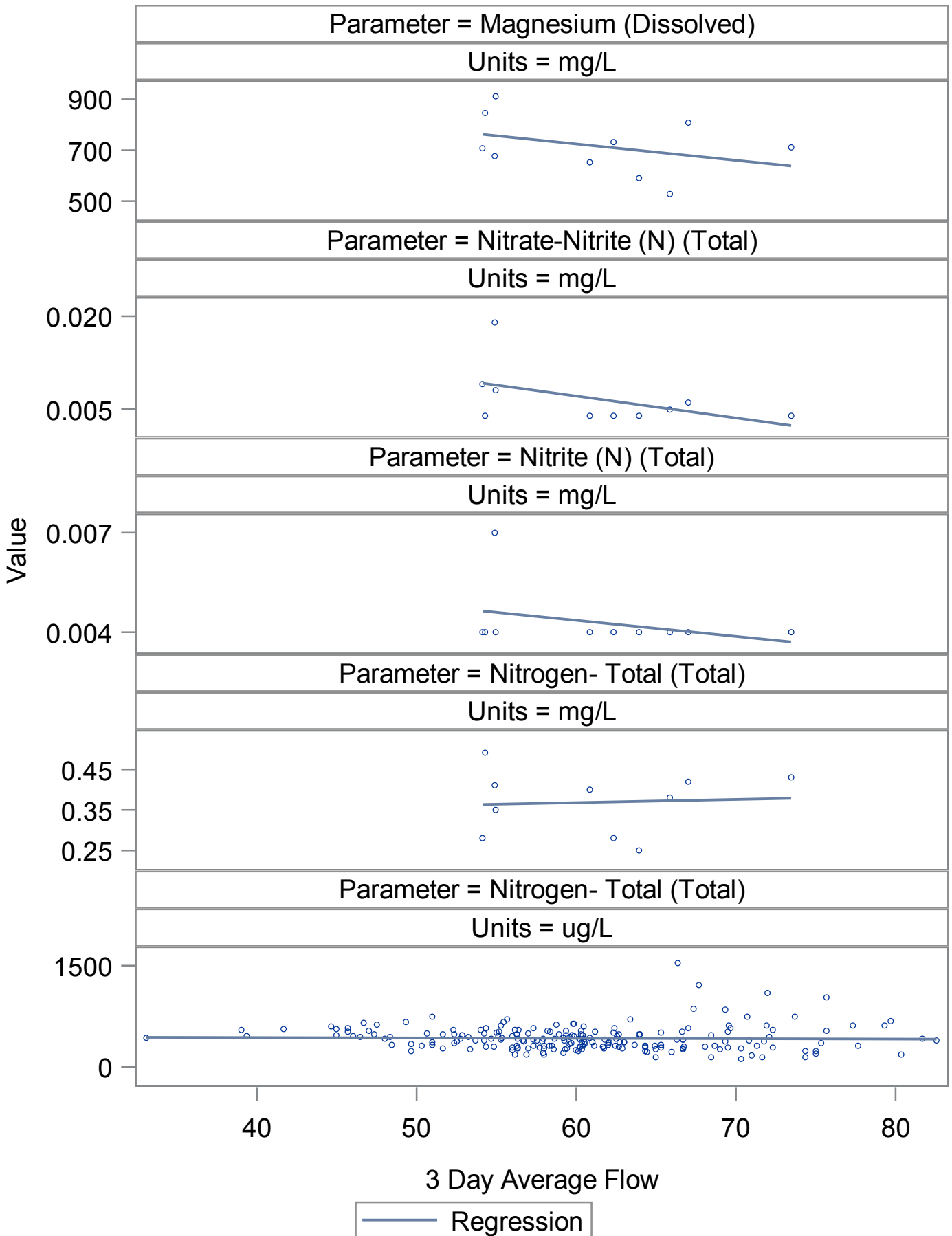
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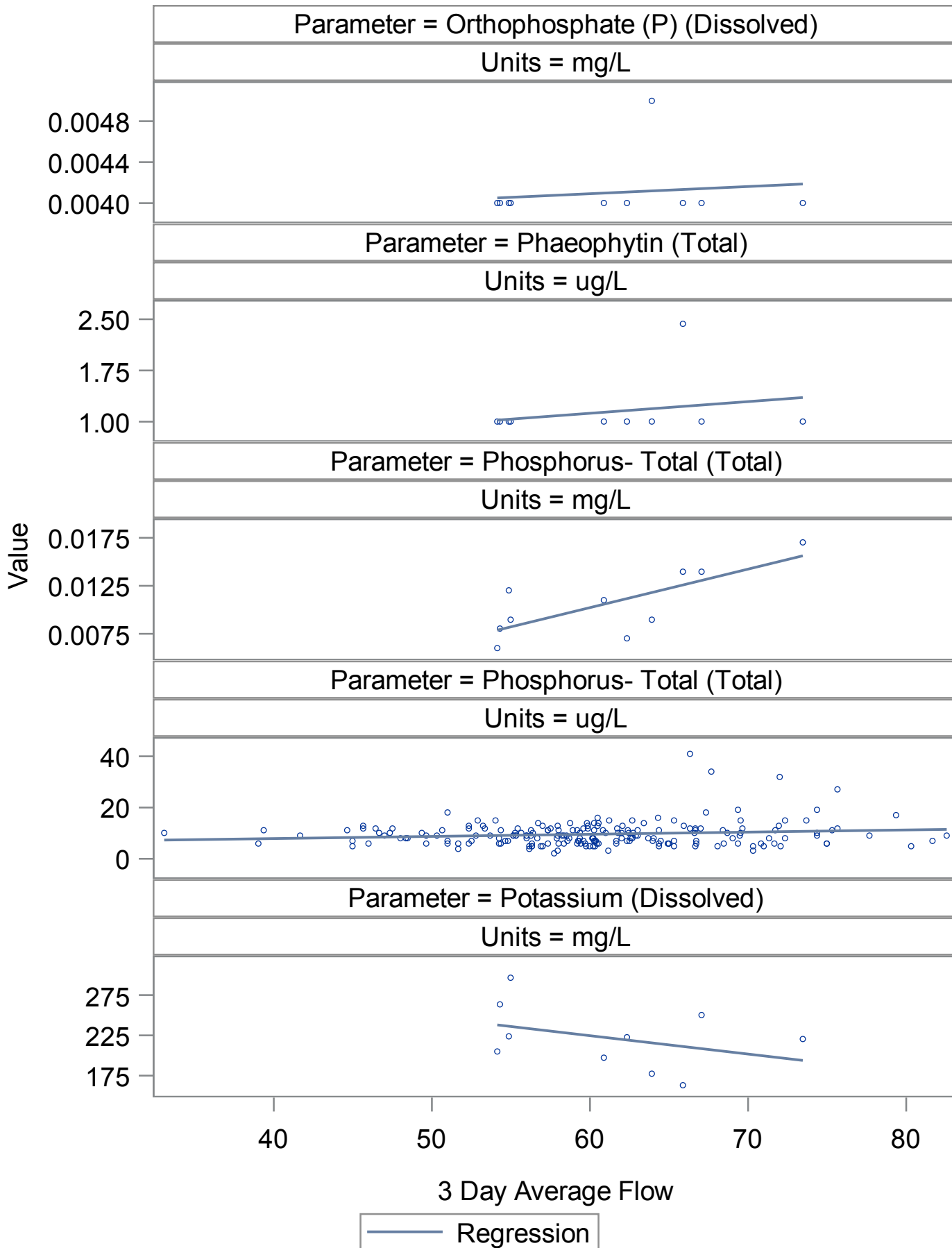
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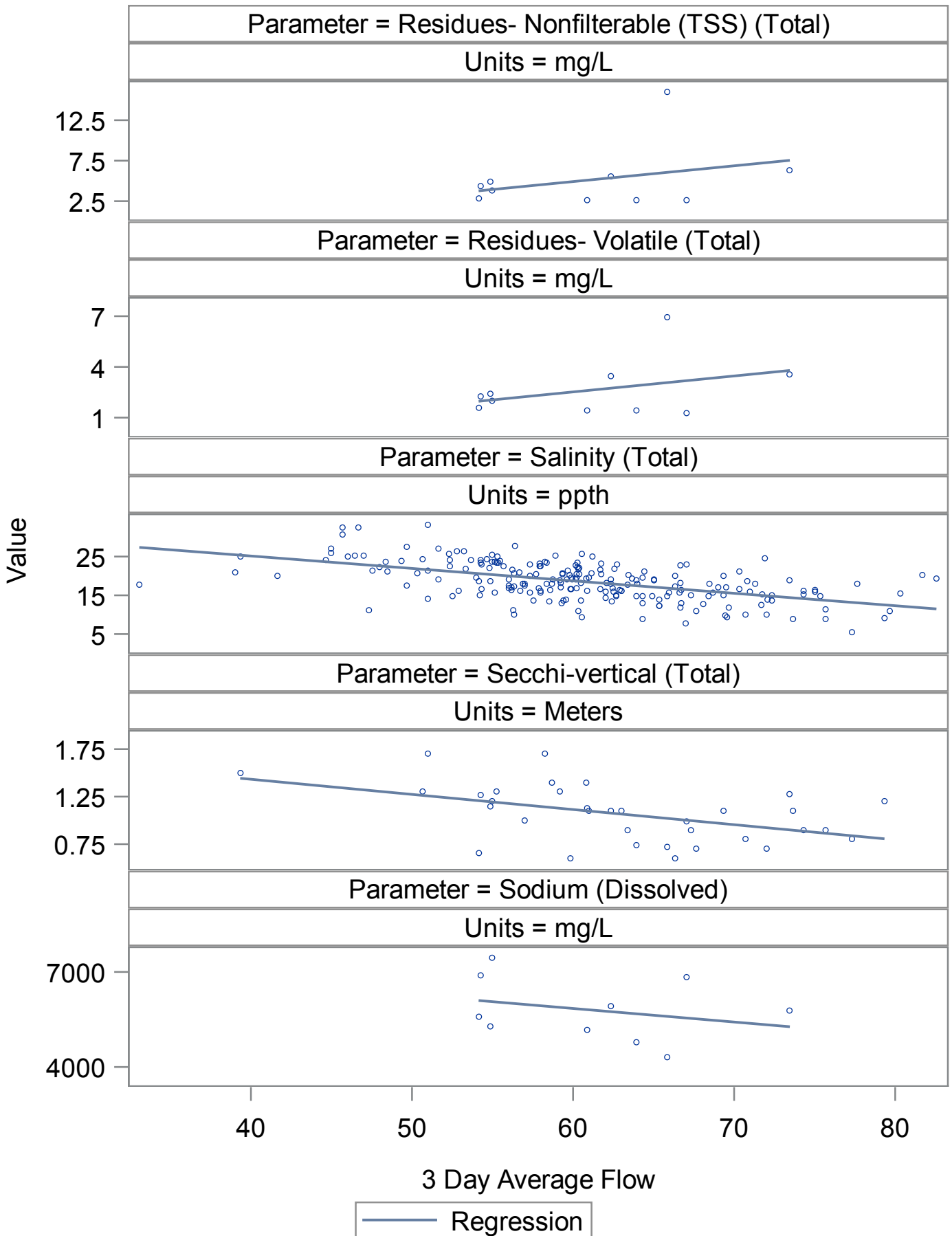
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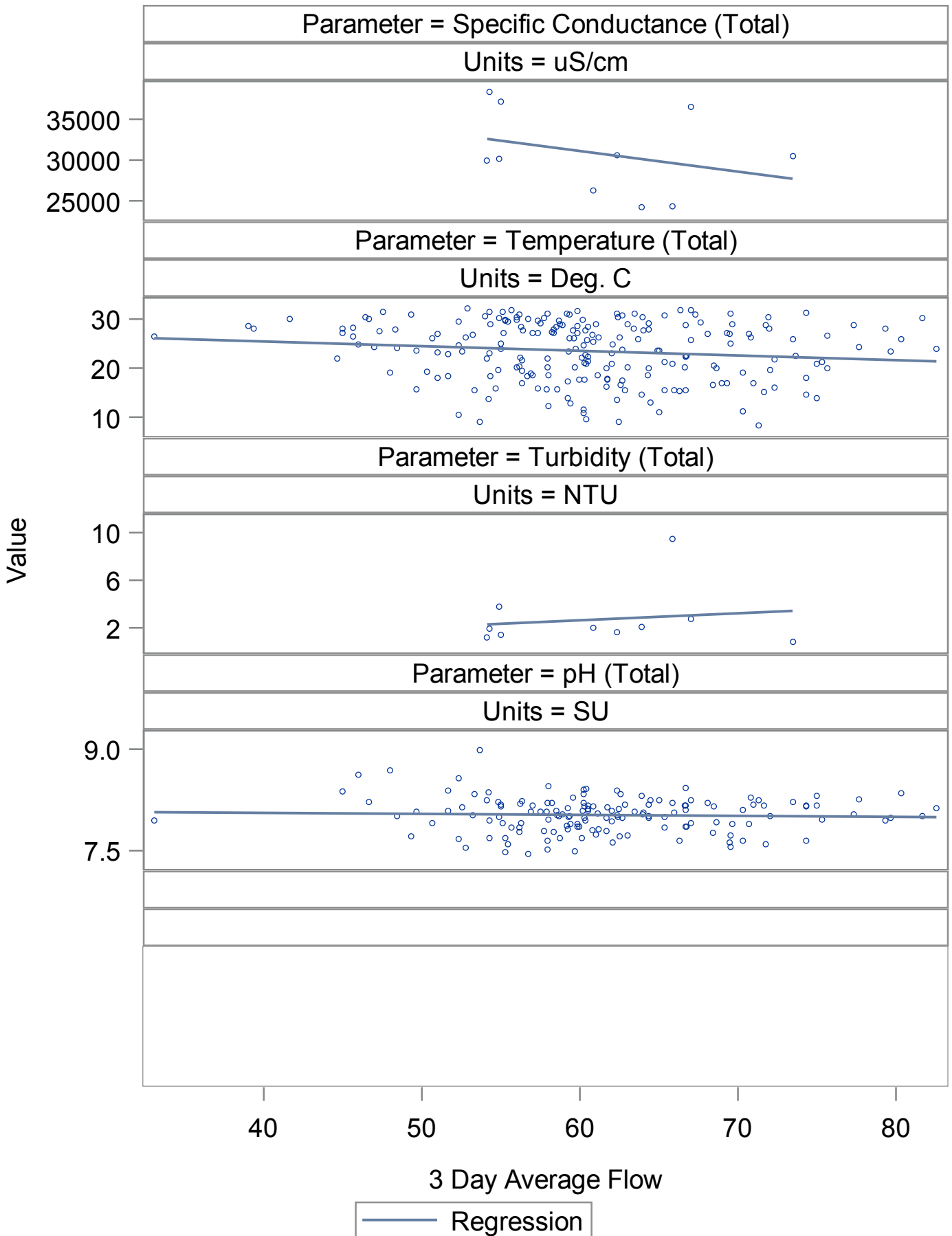
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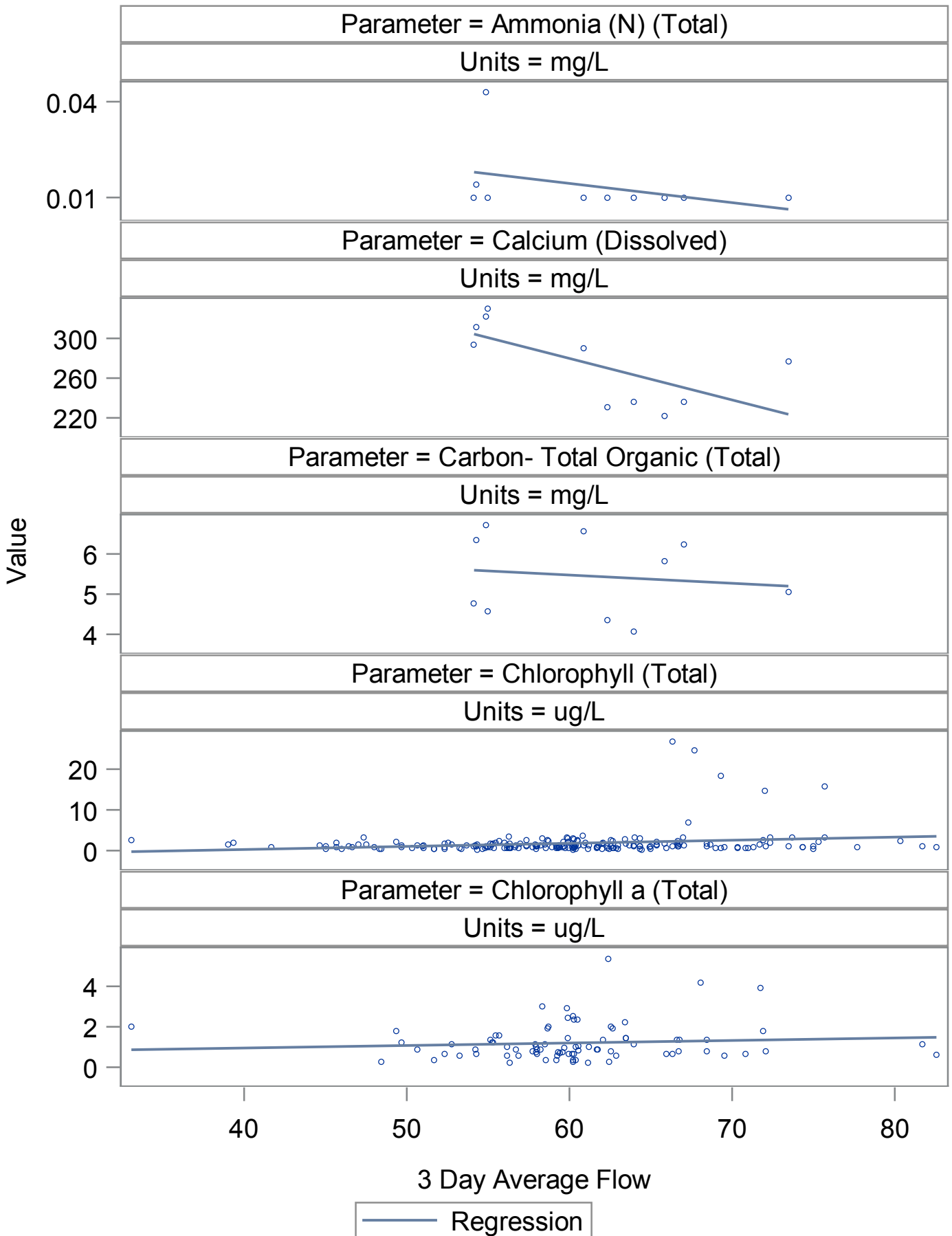
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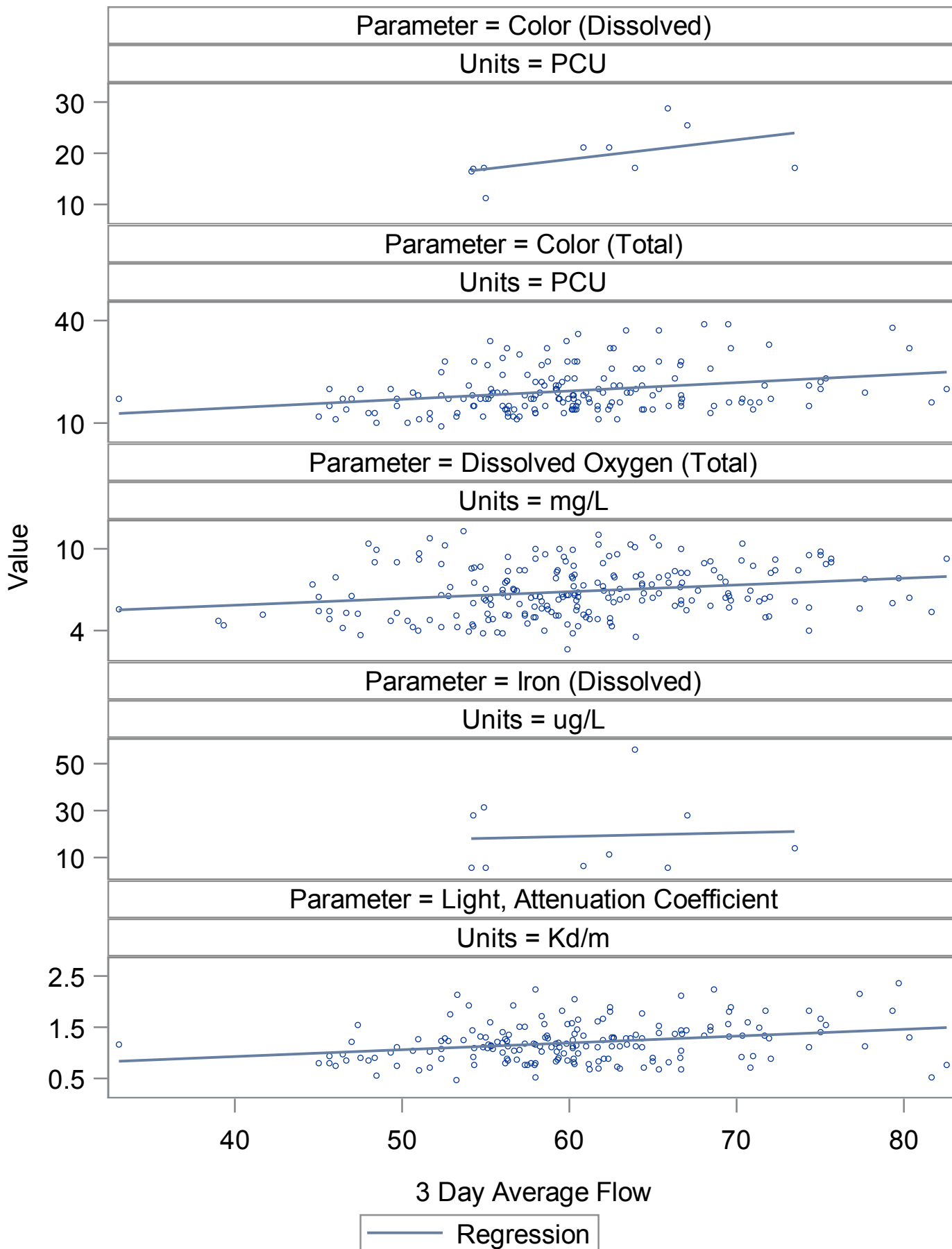
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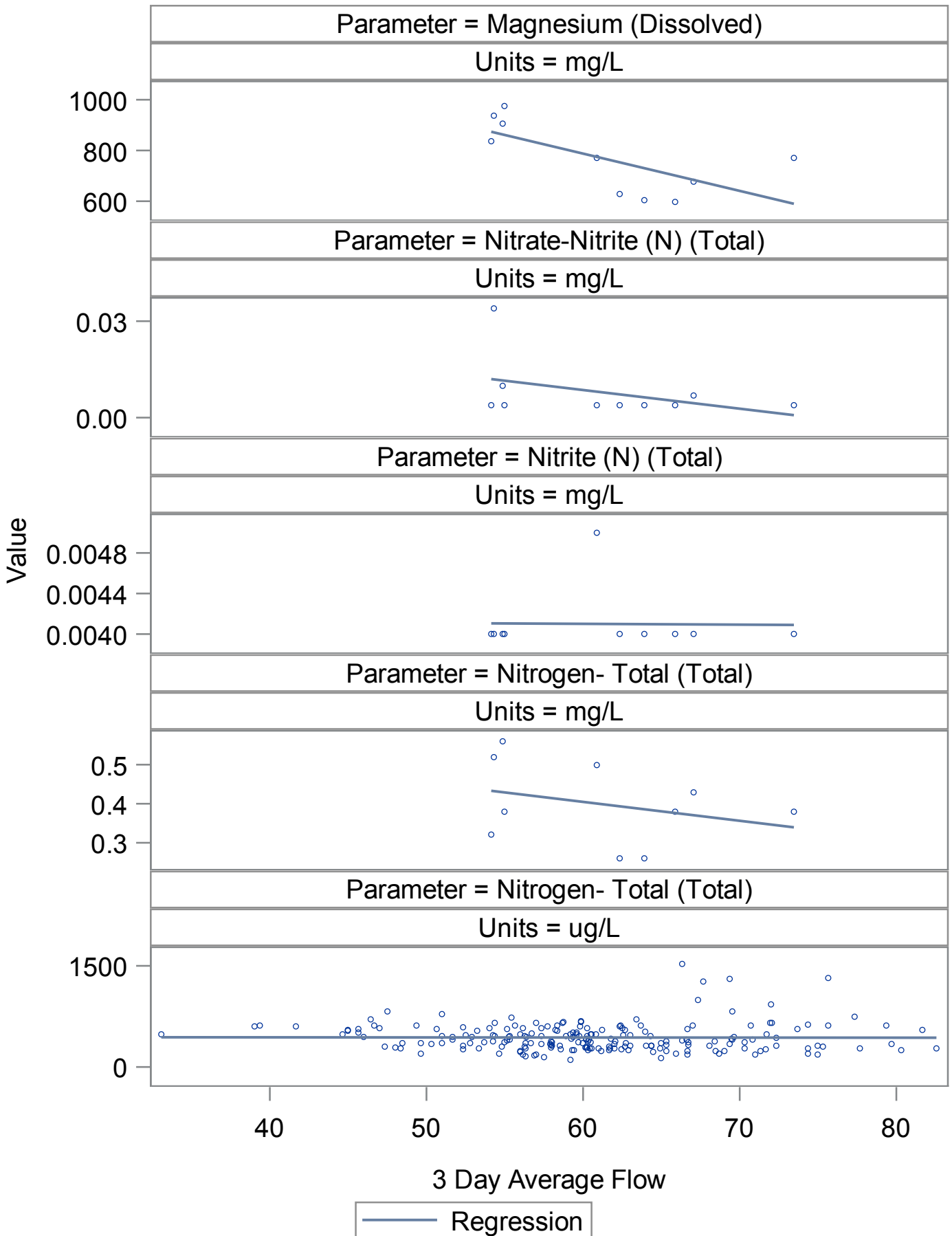
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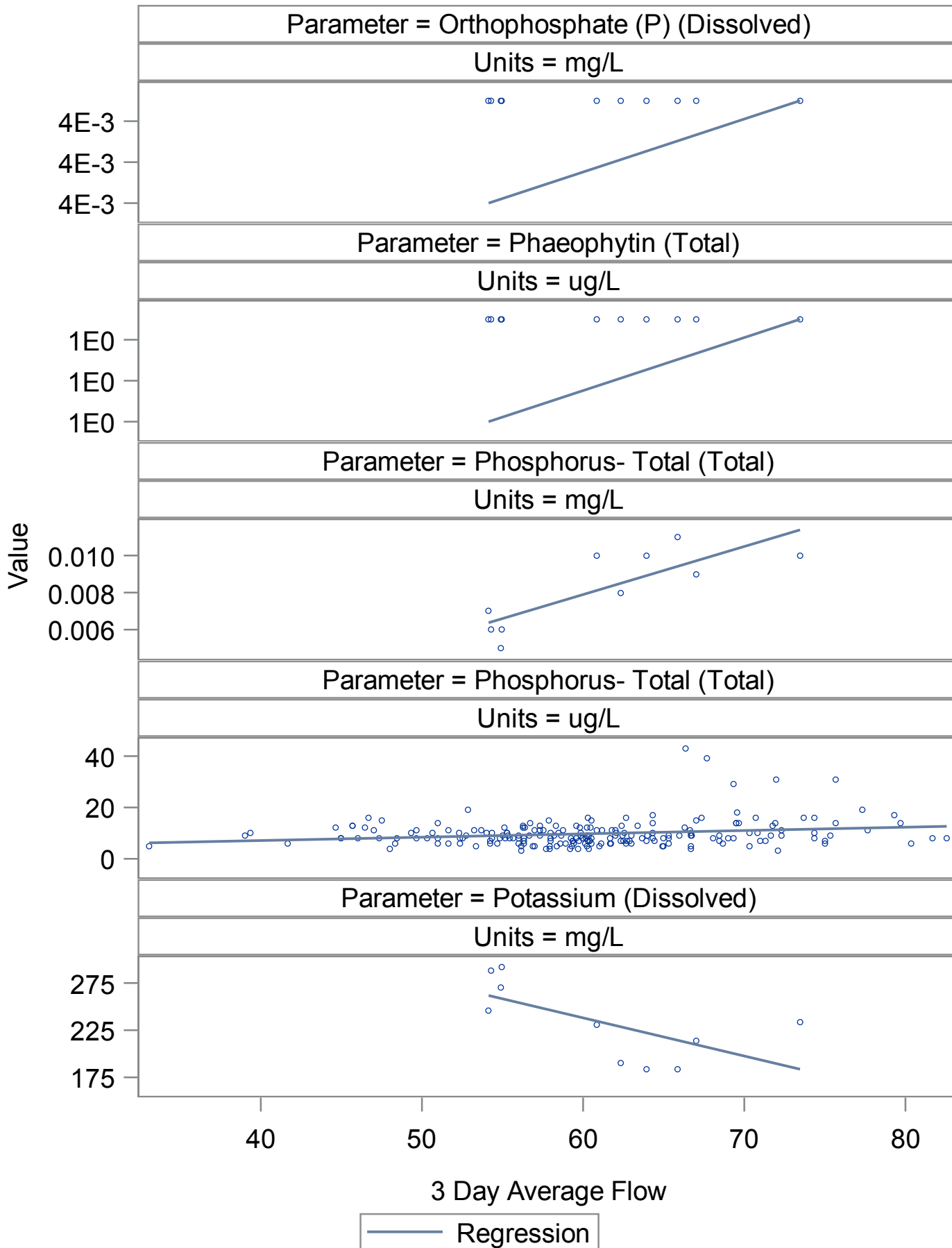
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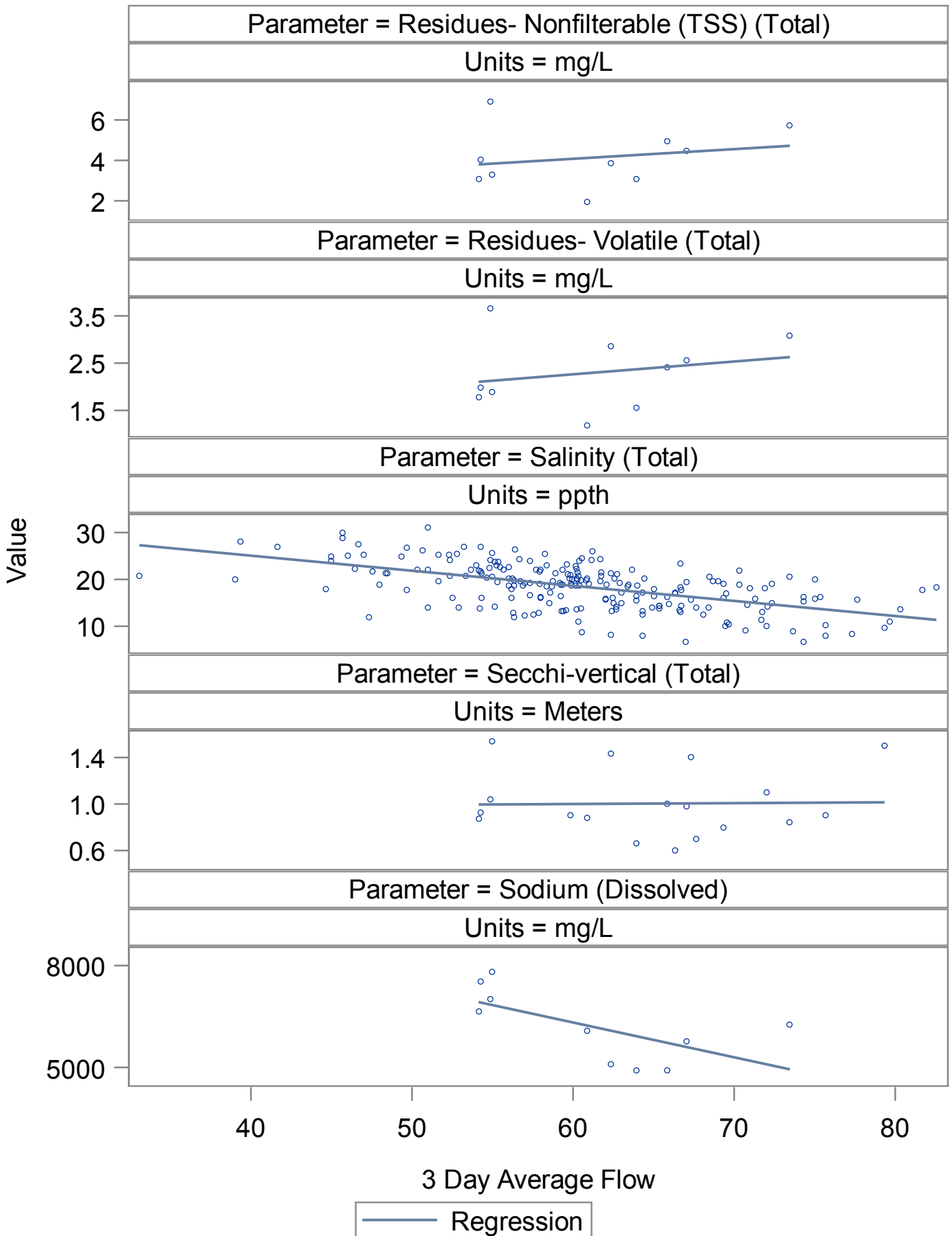
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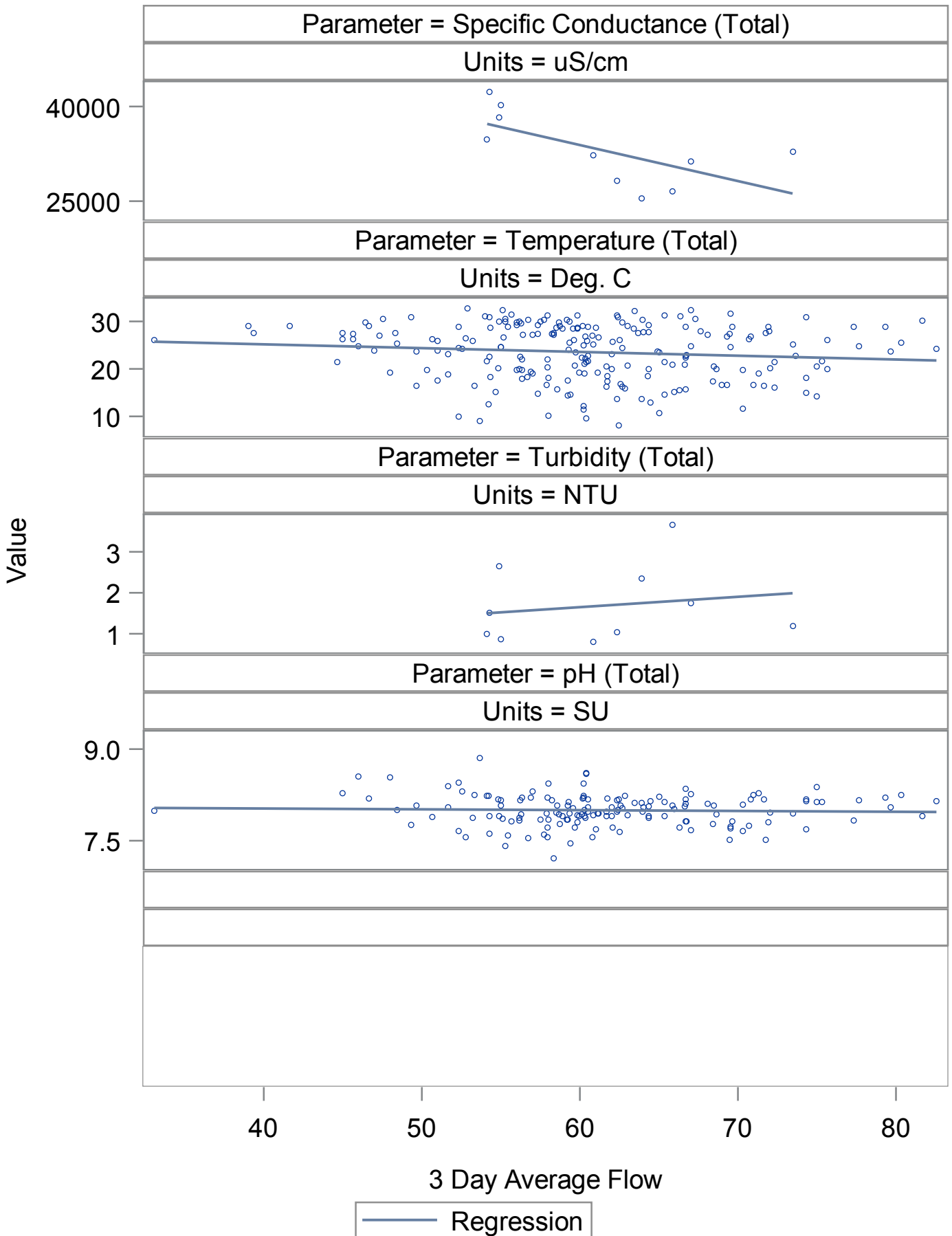
Source=P-529 Station=CHASSAHOWITZKA HERNANDO 8



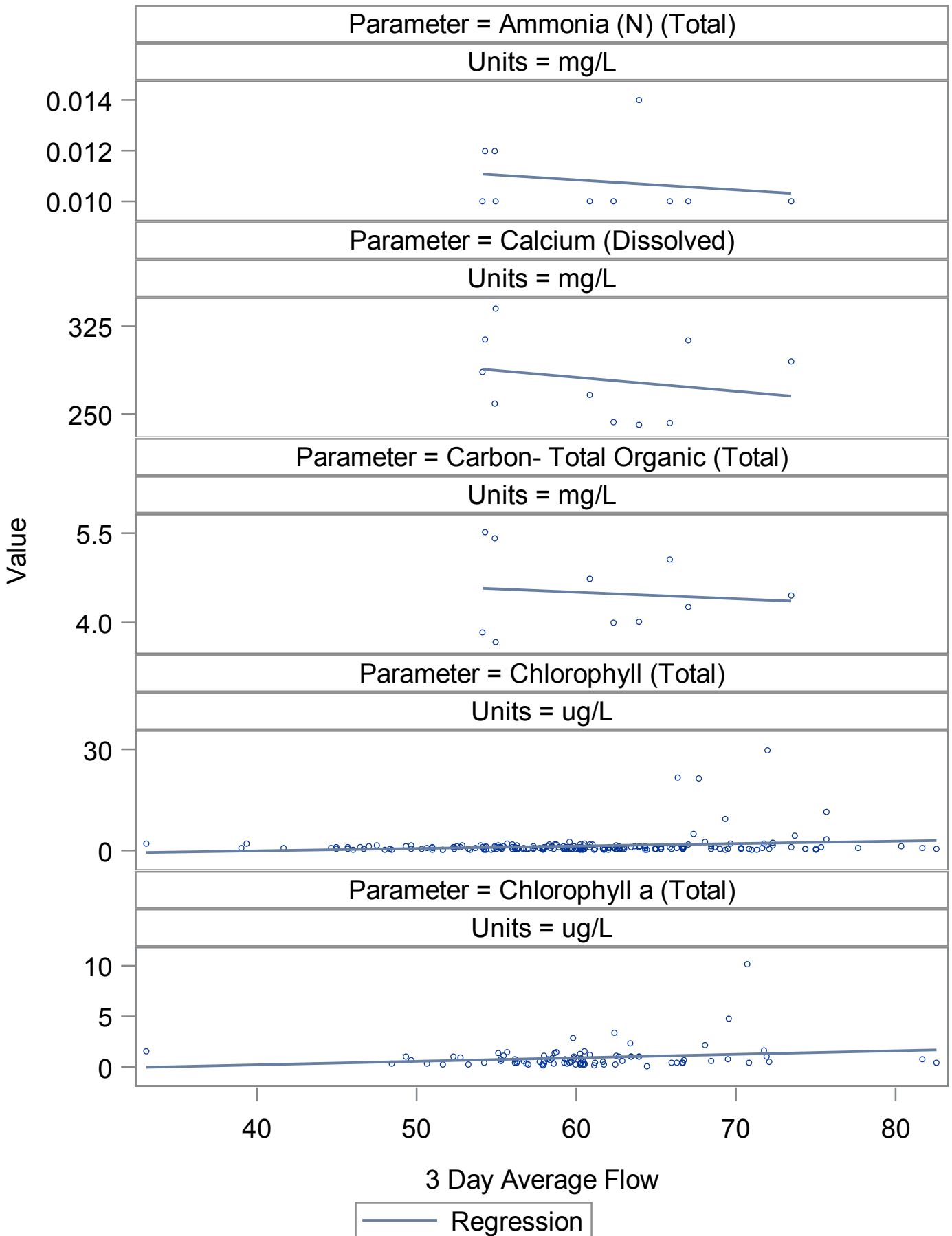
Source=P-529 Station=CHASSAHOWITZKA HERNANDO 8



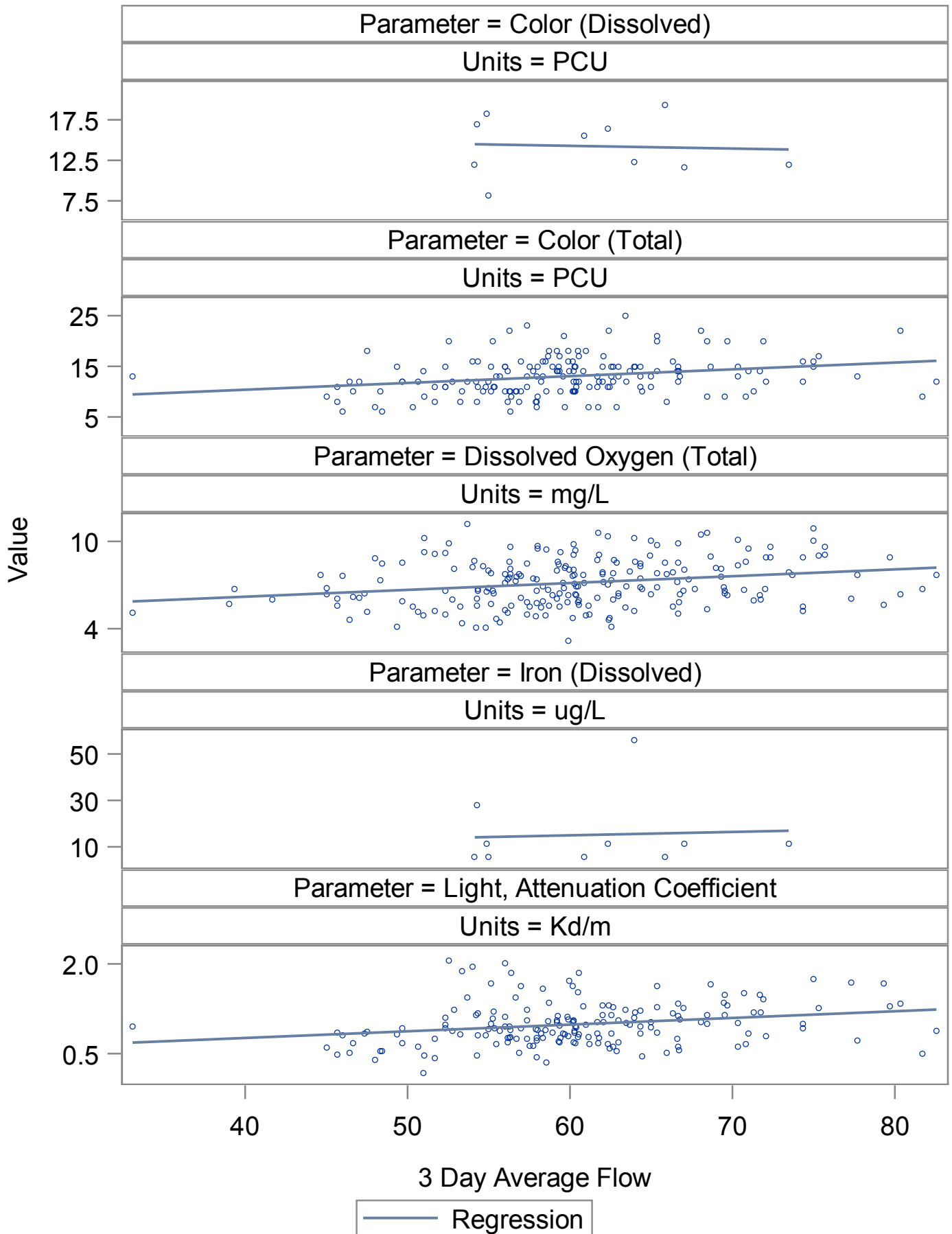
Source=P-529 Station=CHASSAHOWITZKA HERNANDO 8



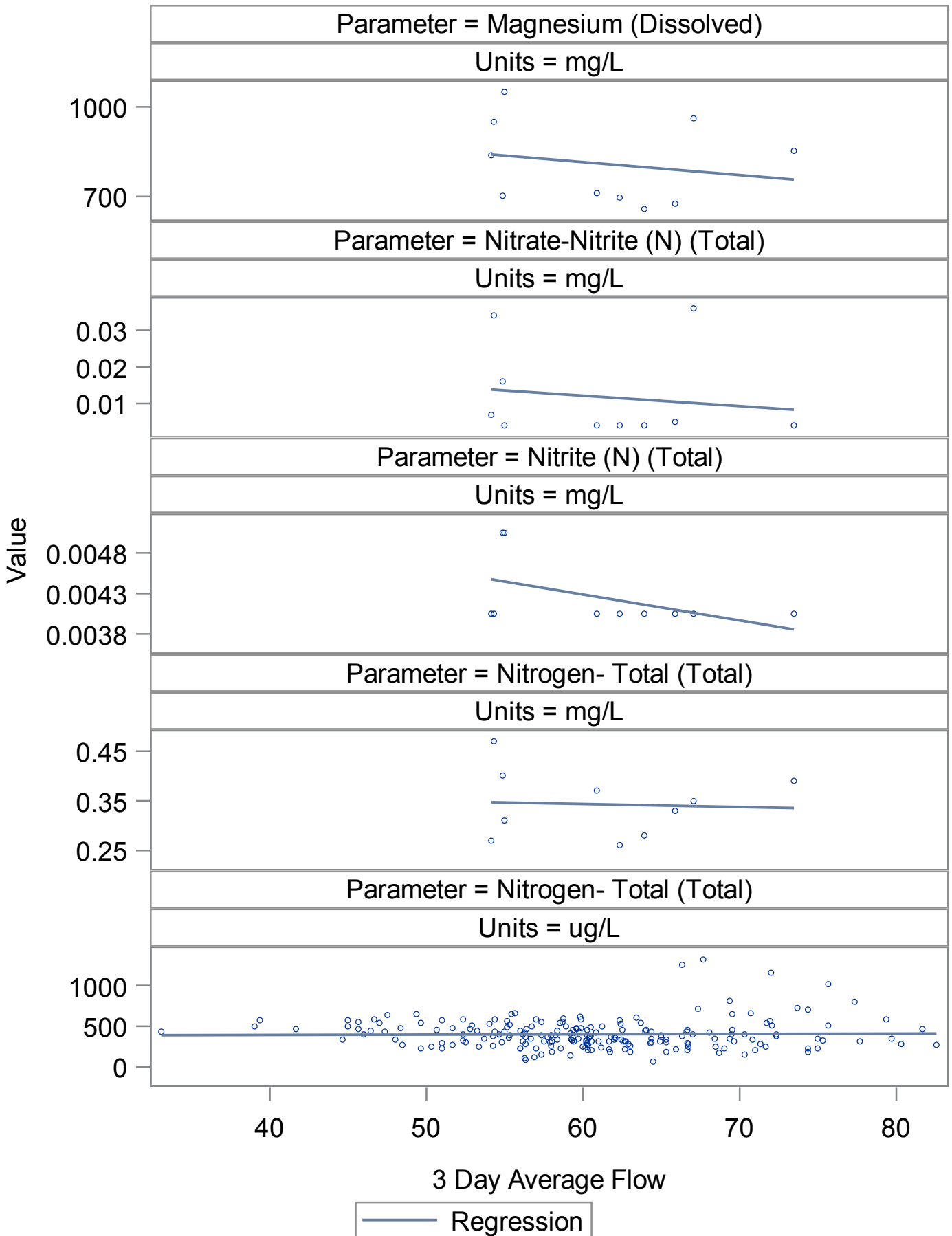
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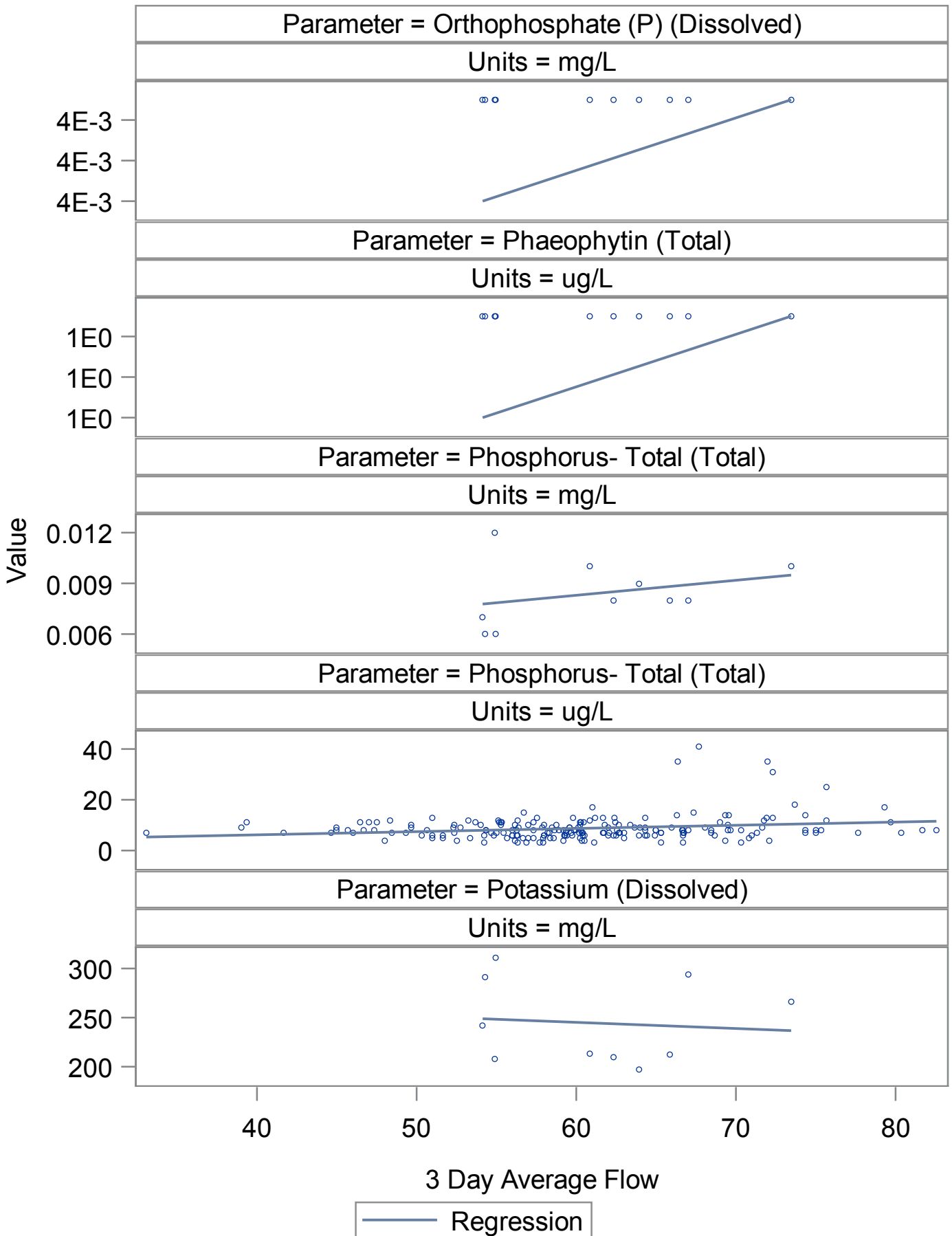
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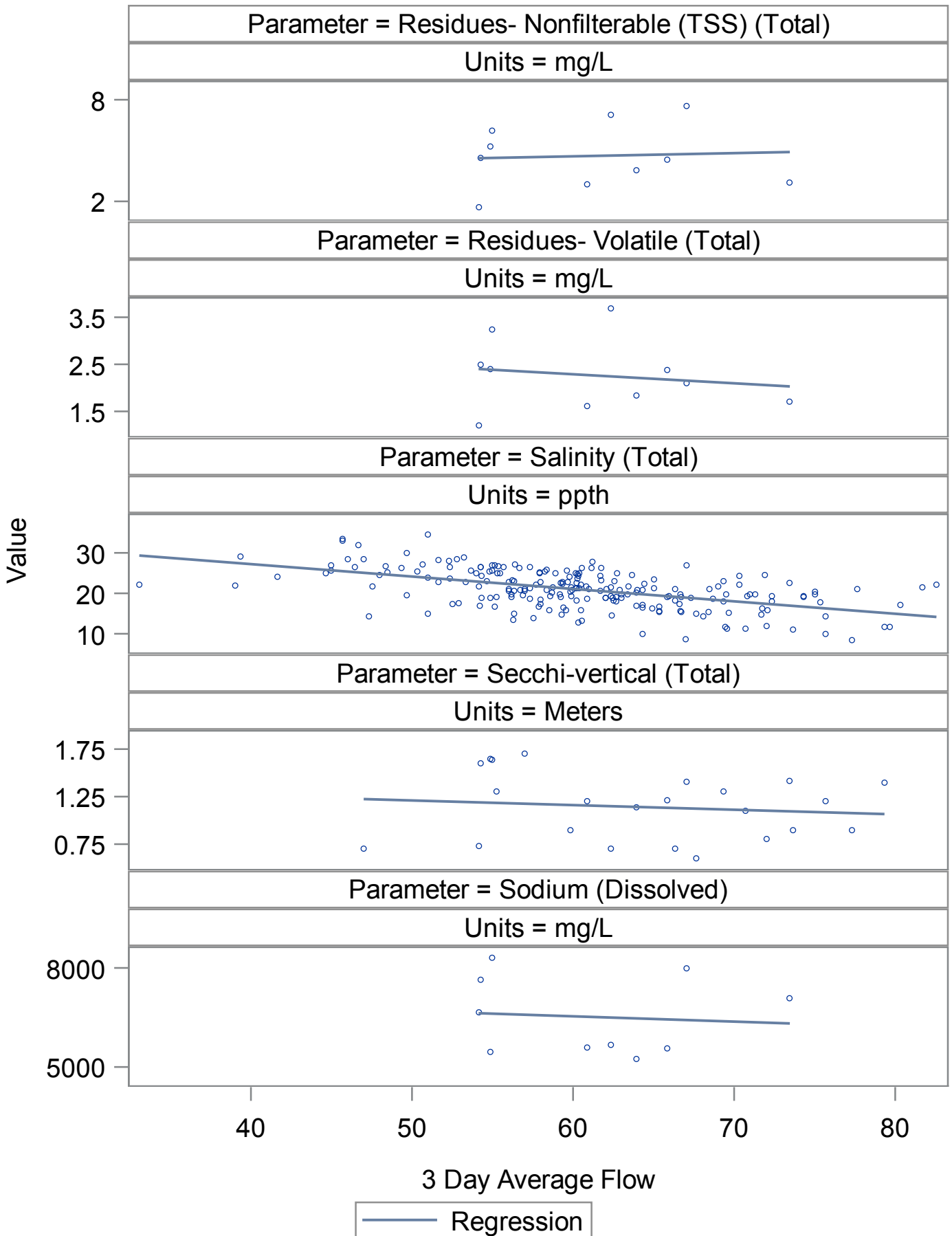
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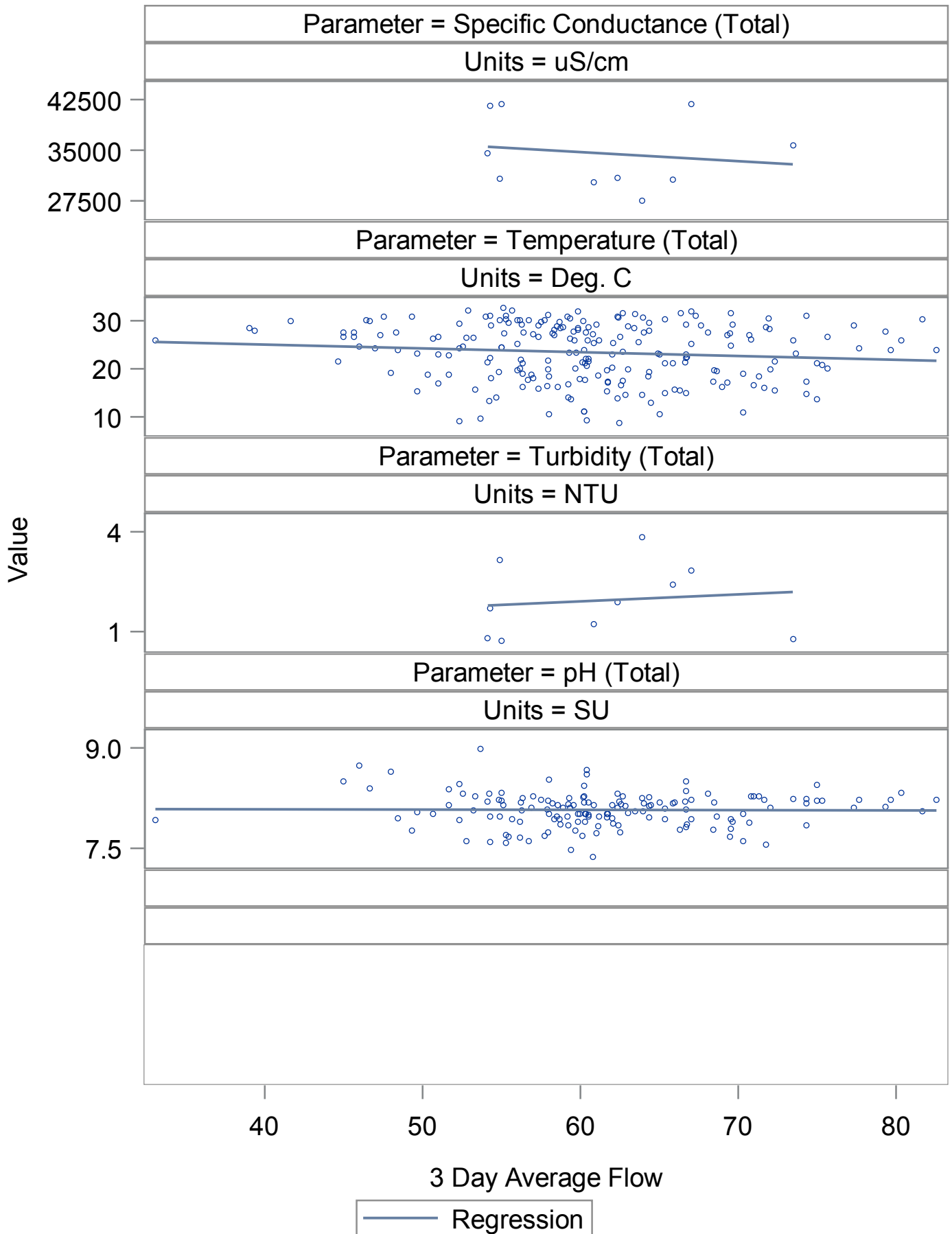
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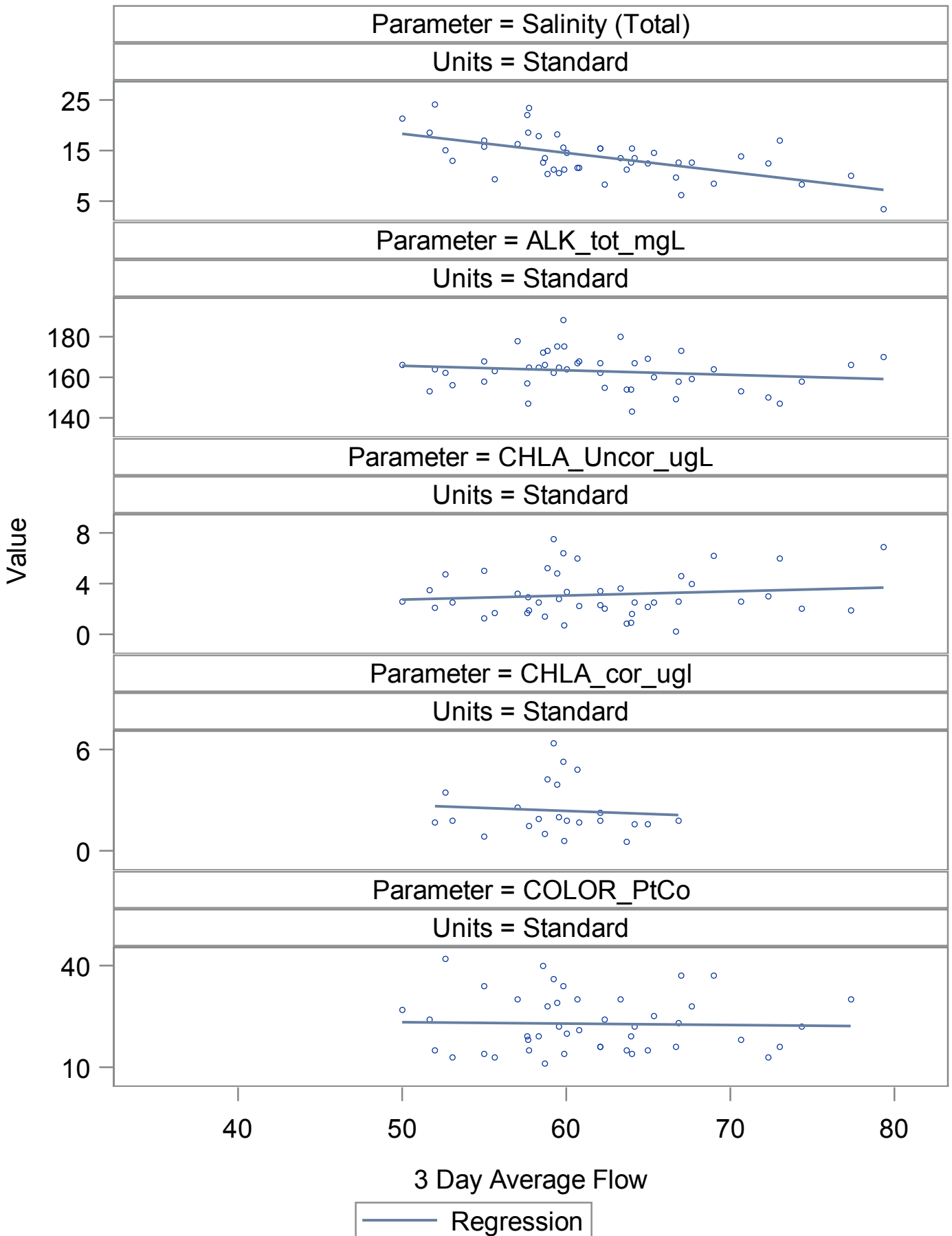
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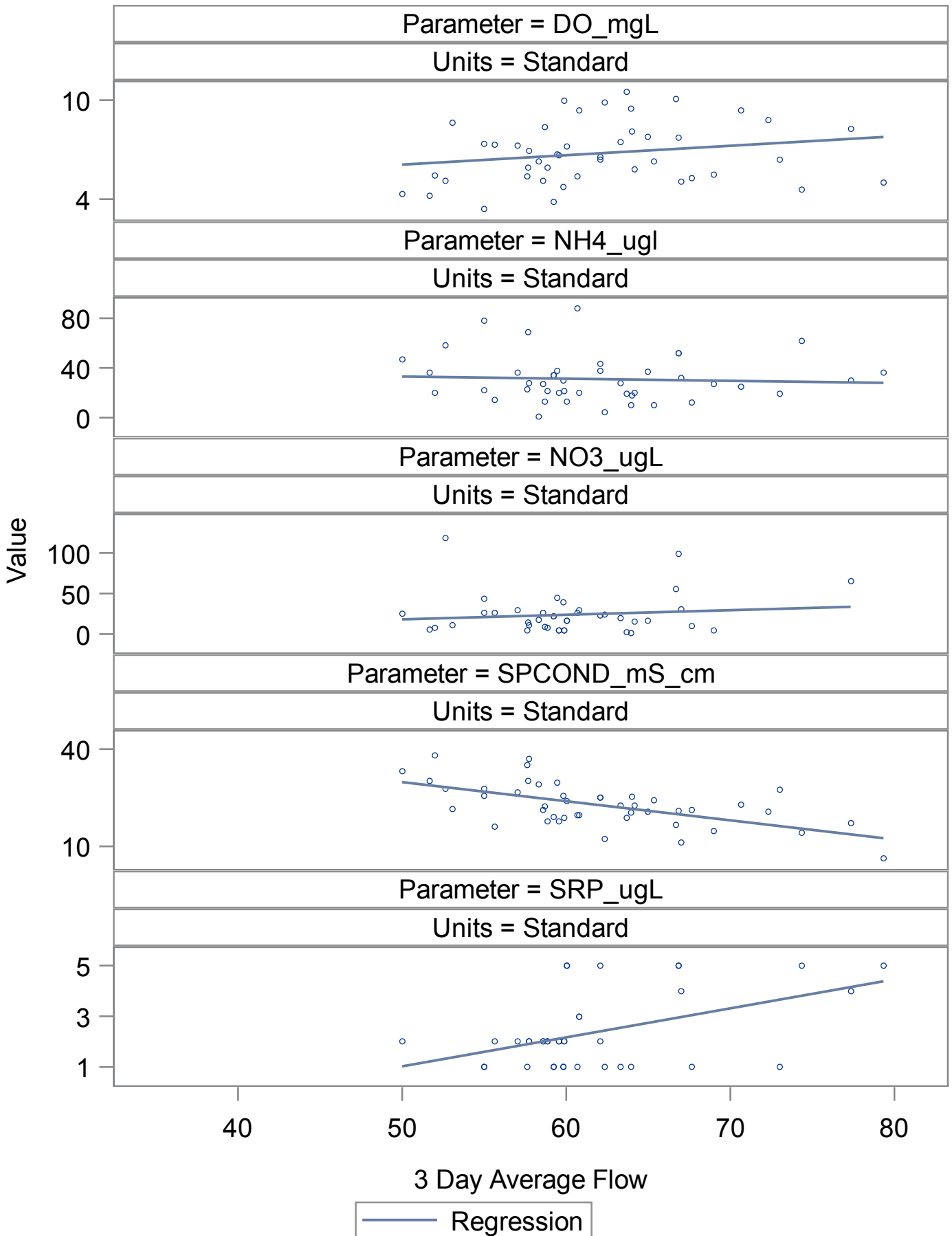
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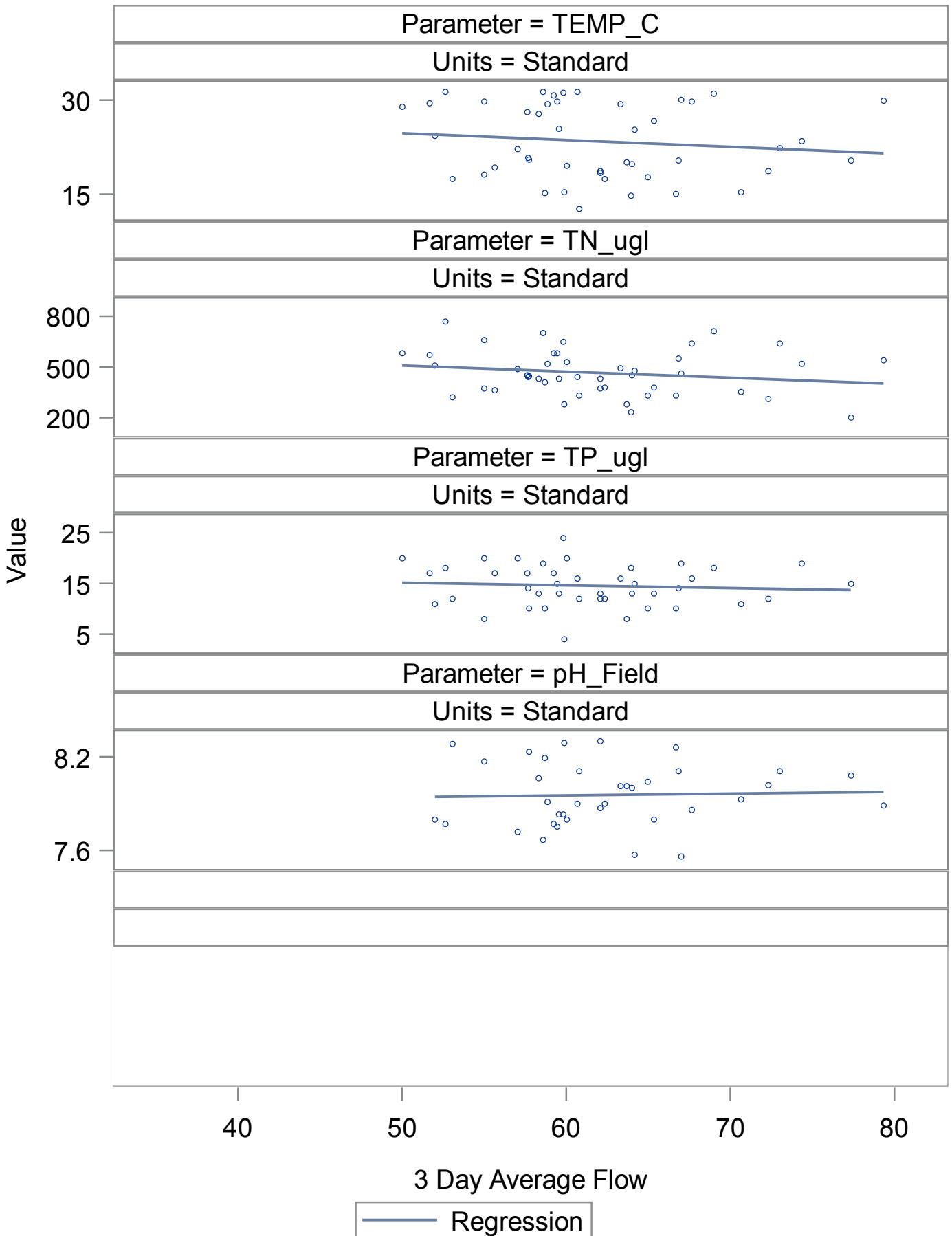
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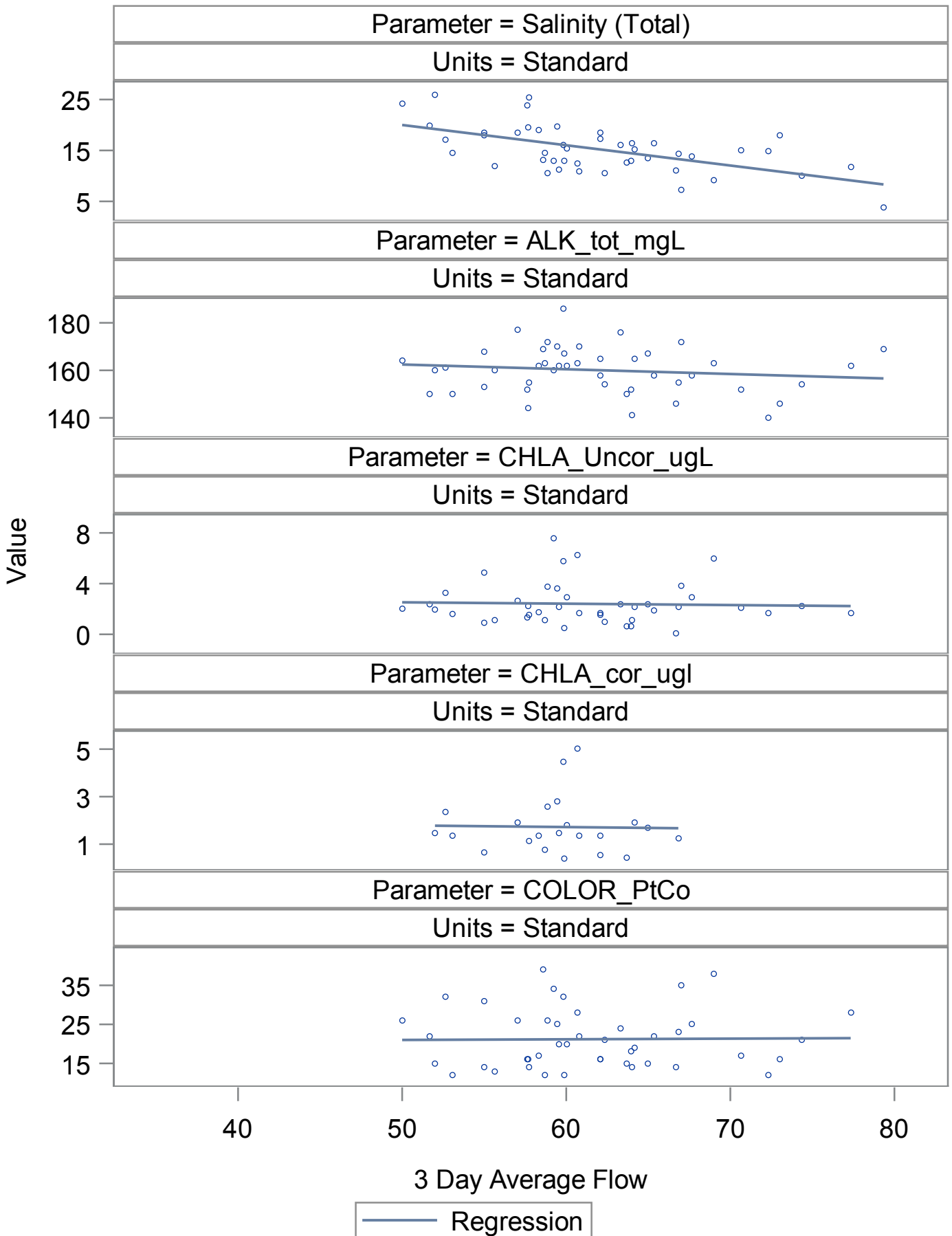
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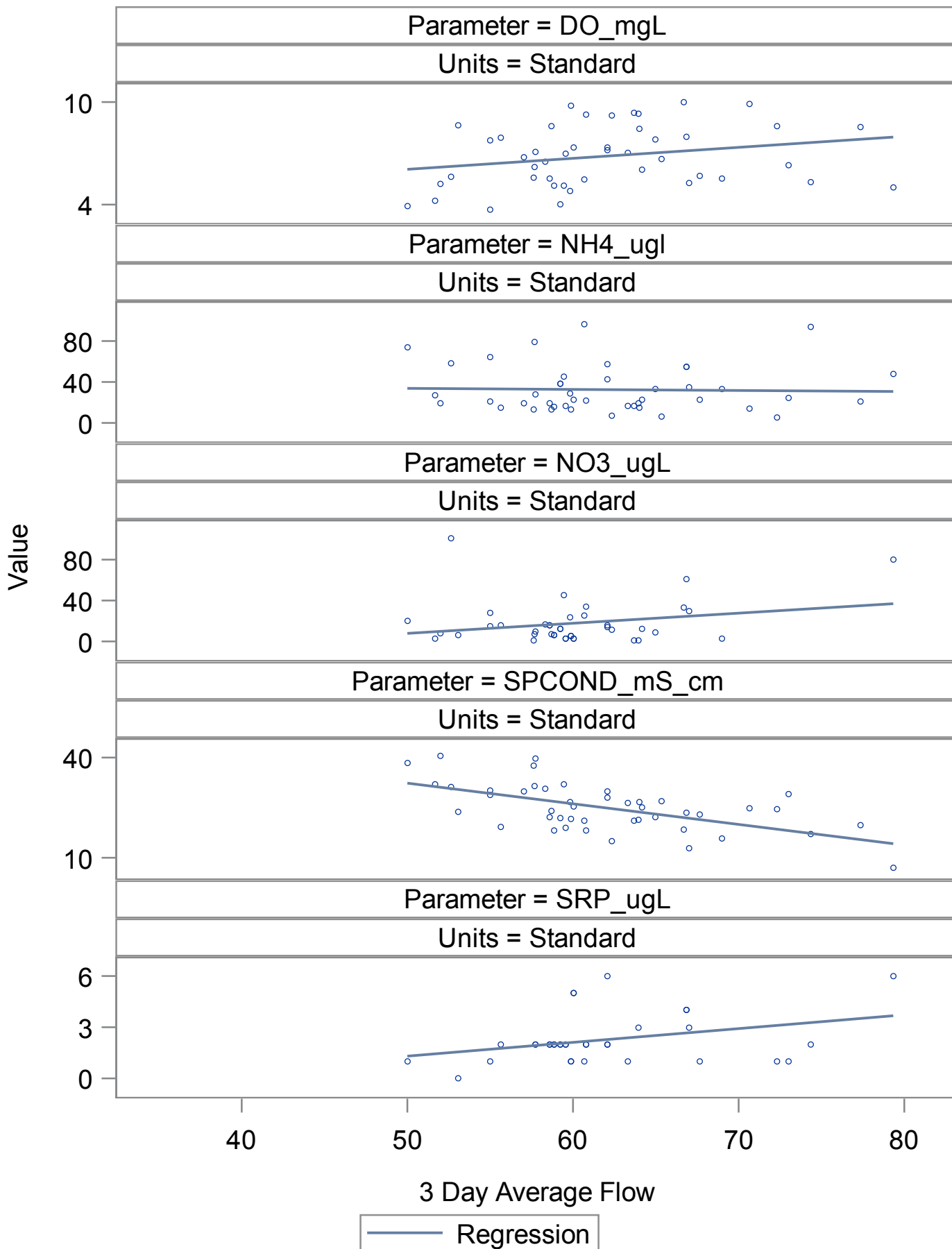
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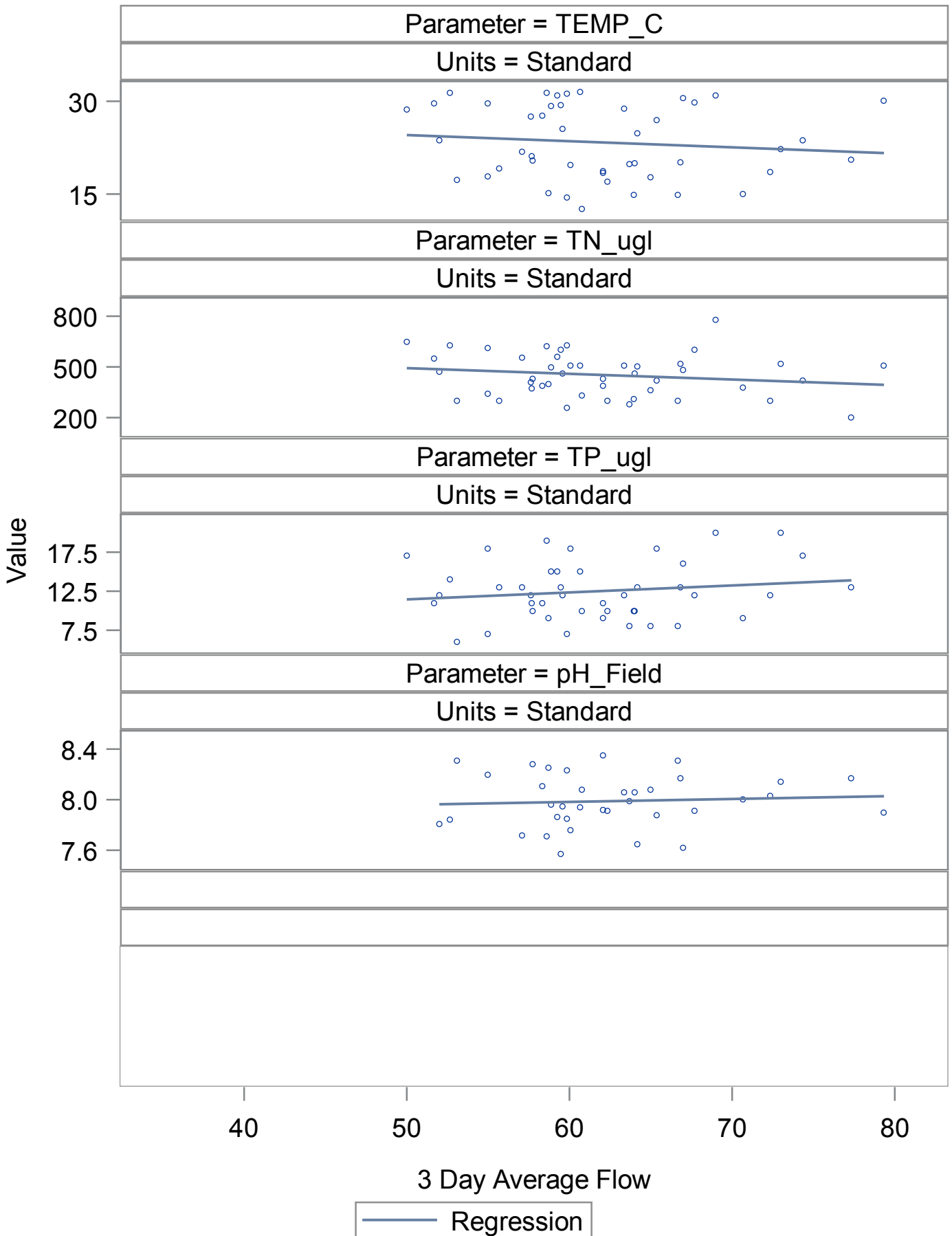
Source=UF 5 Rivers Study Station=Transect 19 - 3



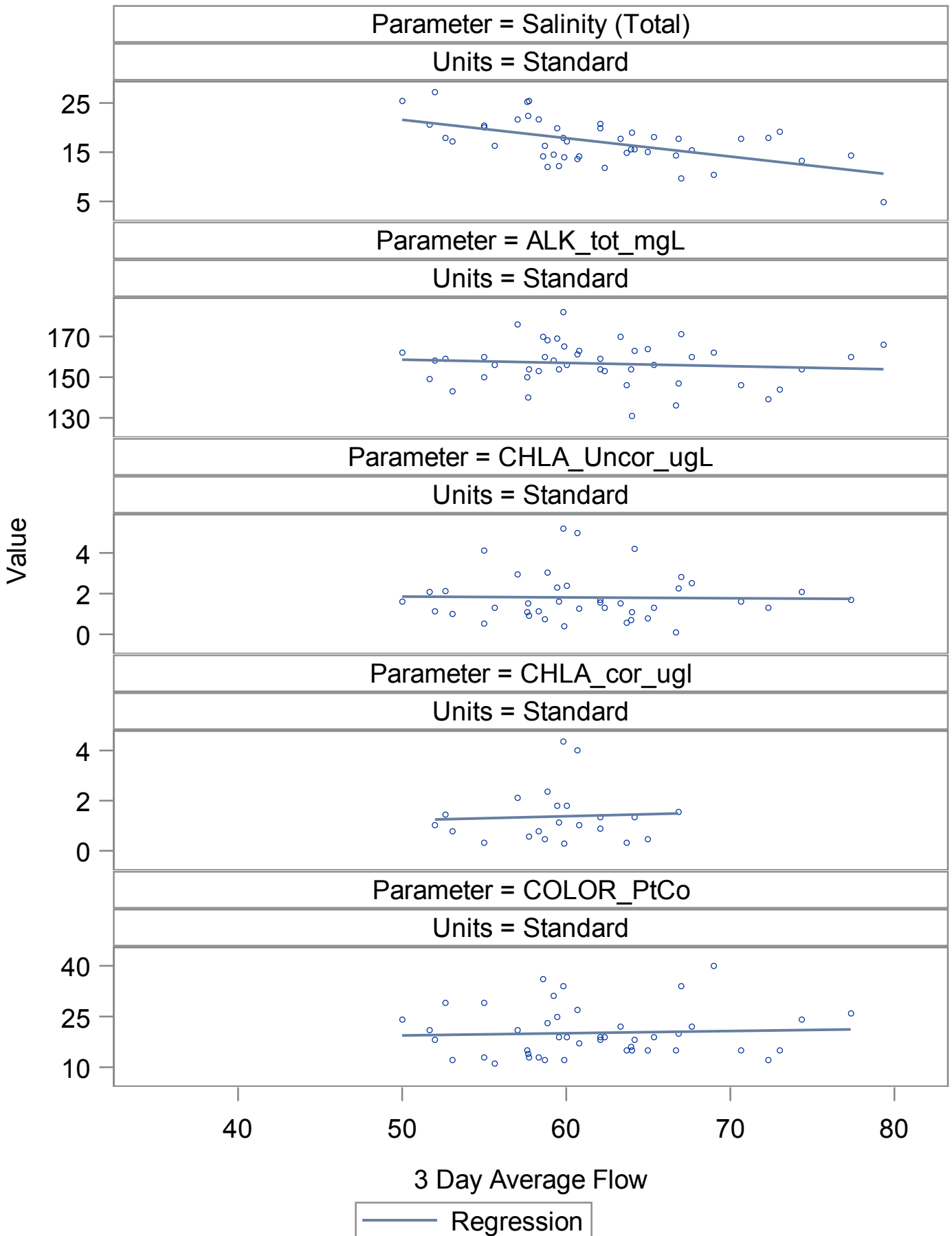
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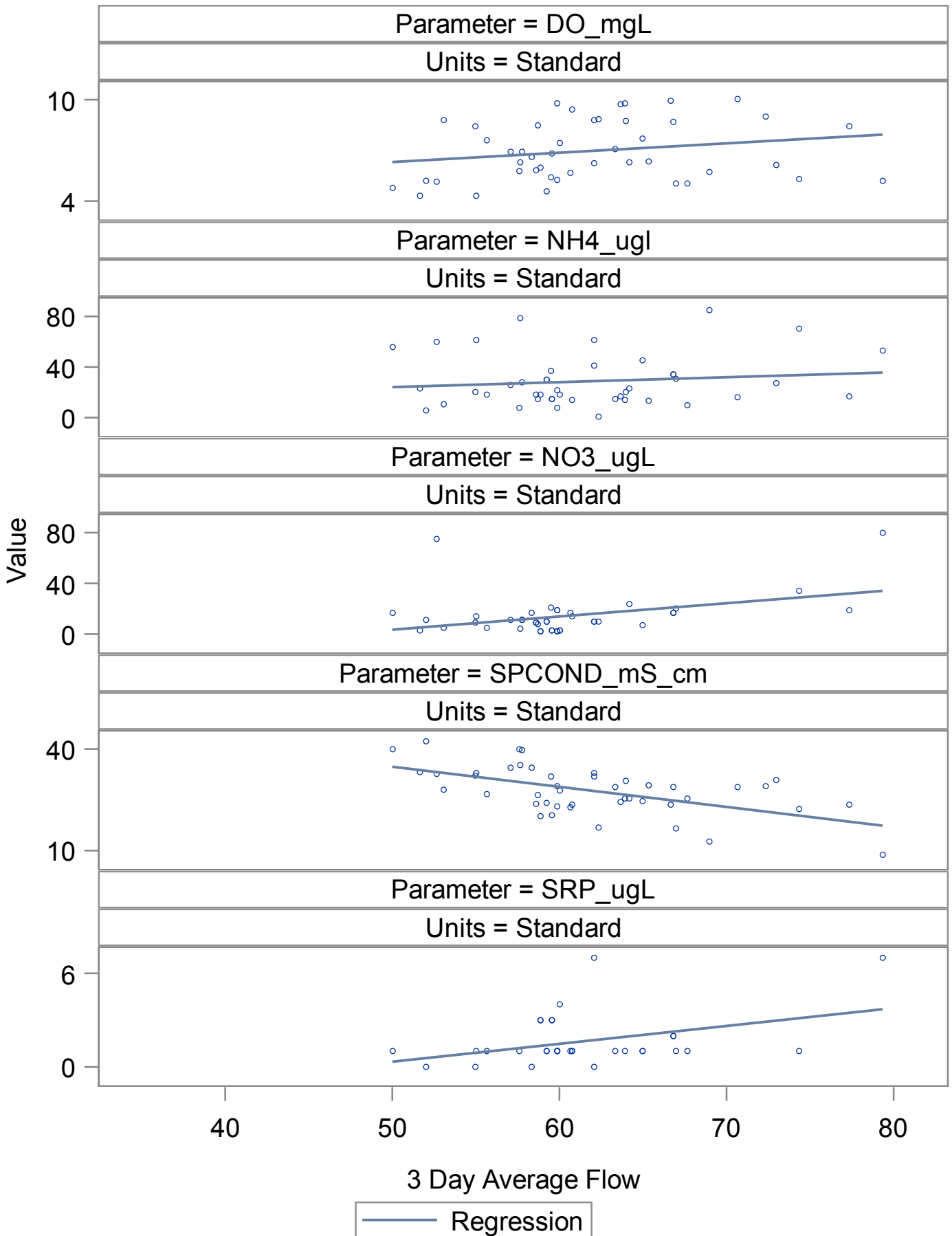
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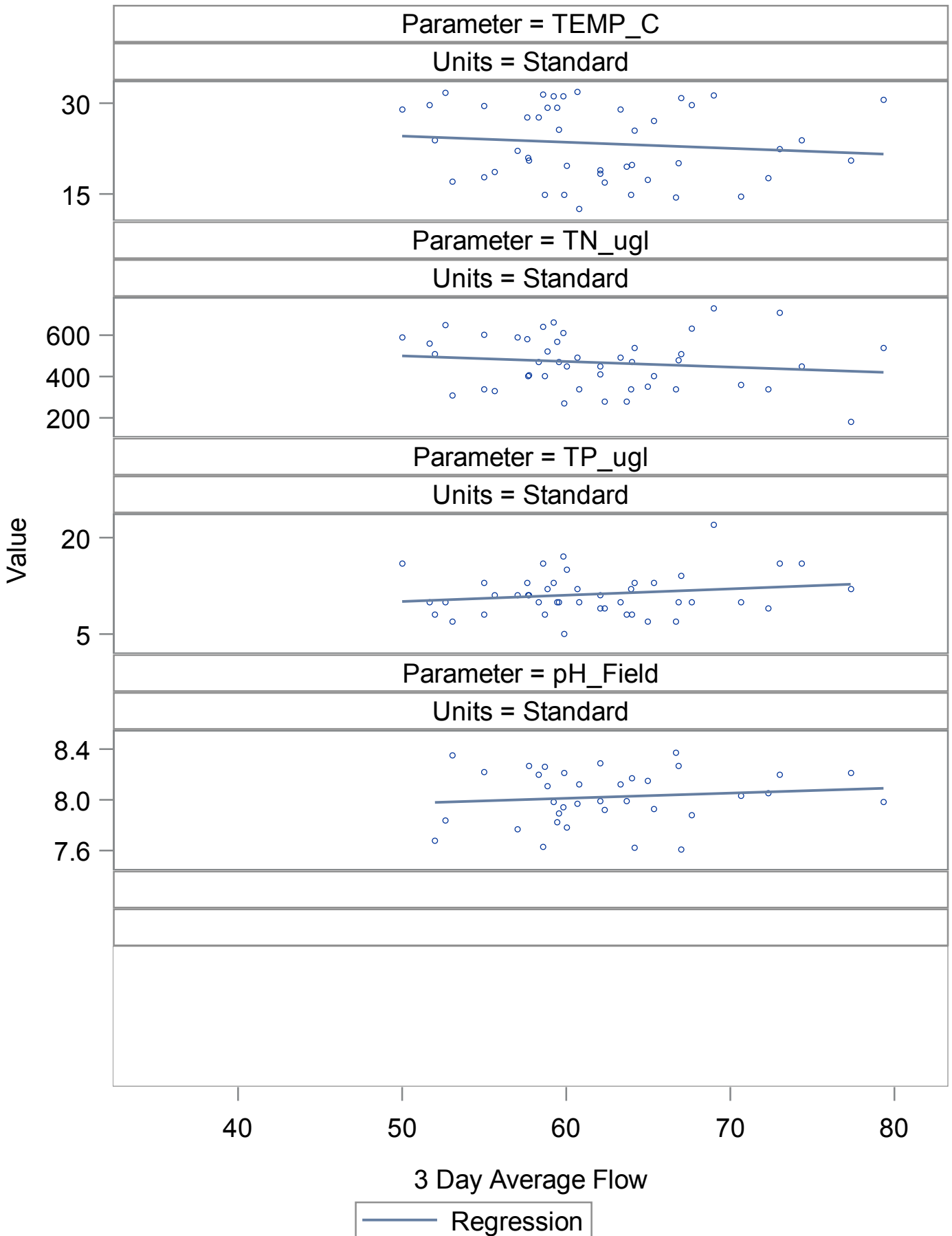
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Source=UF 5 Rivers Study Station=Transect 20 - 3



Source=UF 5 Rivers Study Station=Transect 20 - 3



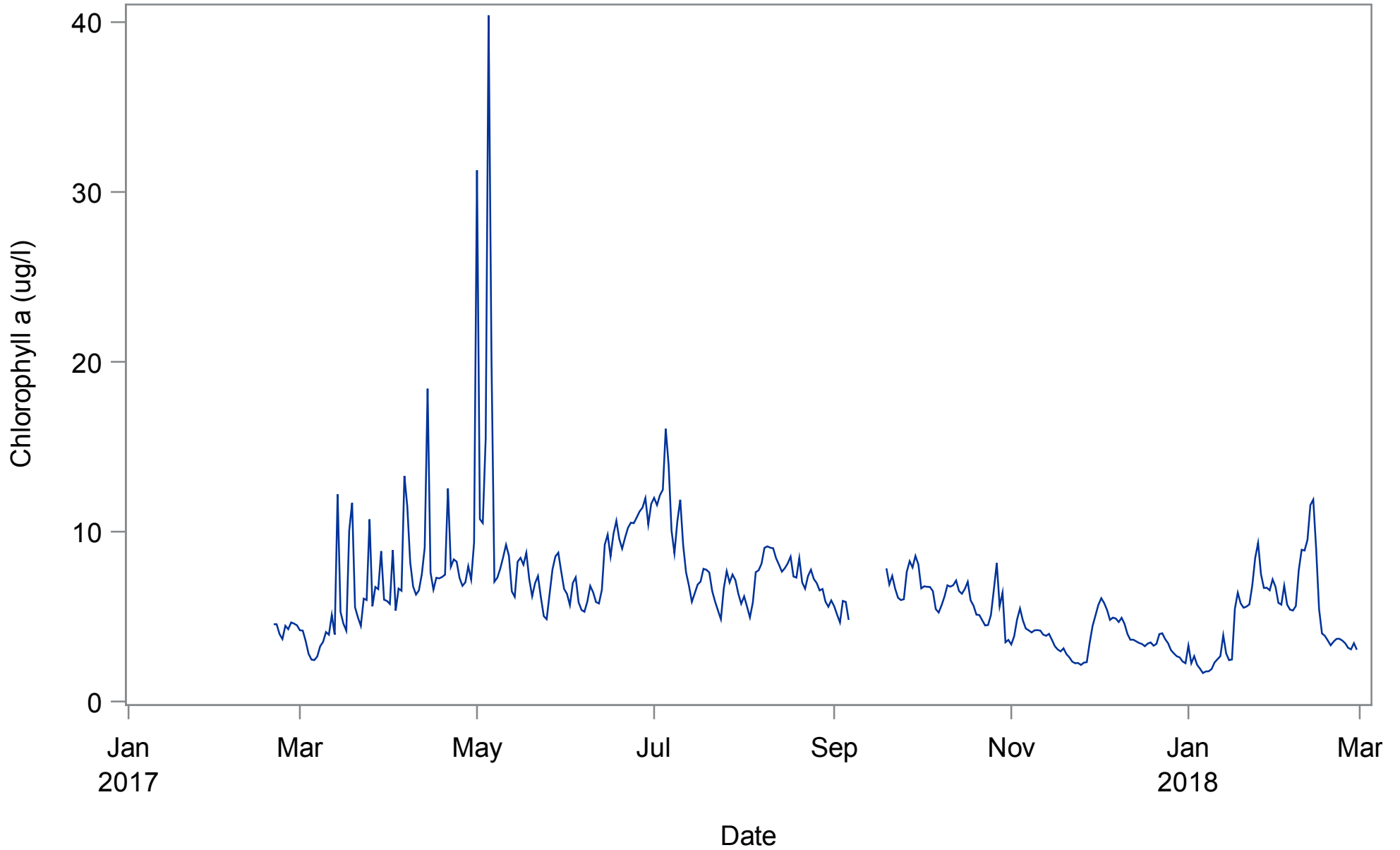
APPENDIX F

Comparison of Within and Between Day Variability of Continuous Recorder Data Collected in the Chassahowitzka River

Chassahowitzka River

Chass Near Mouth

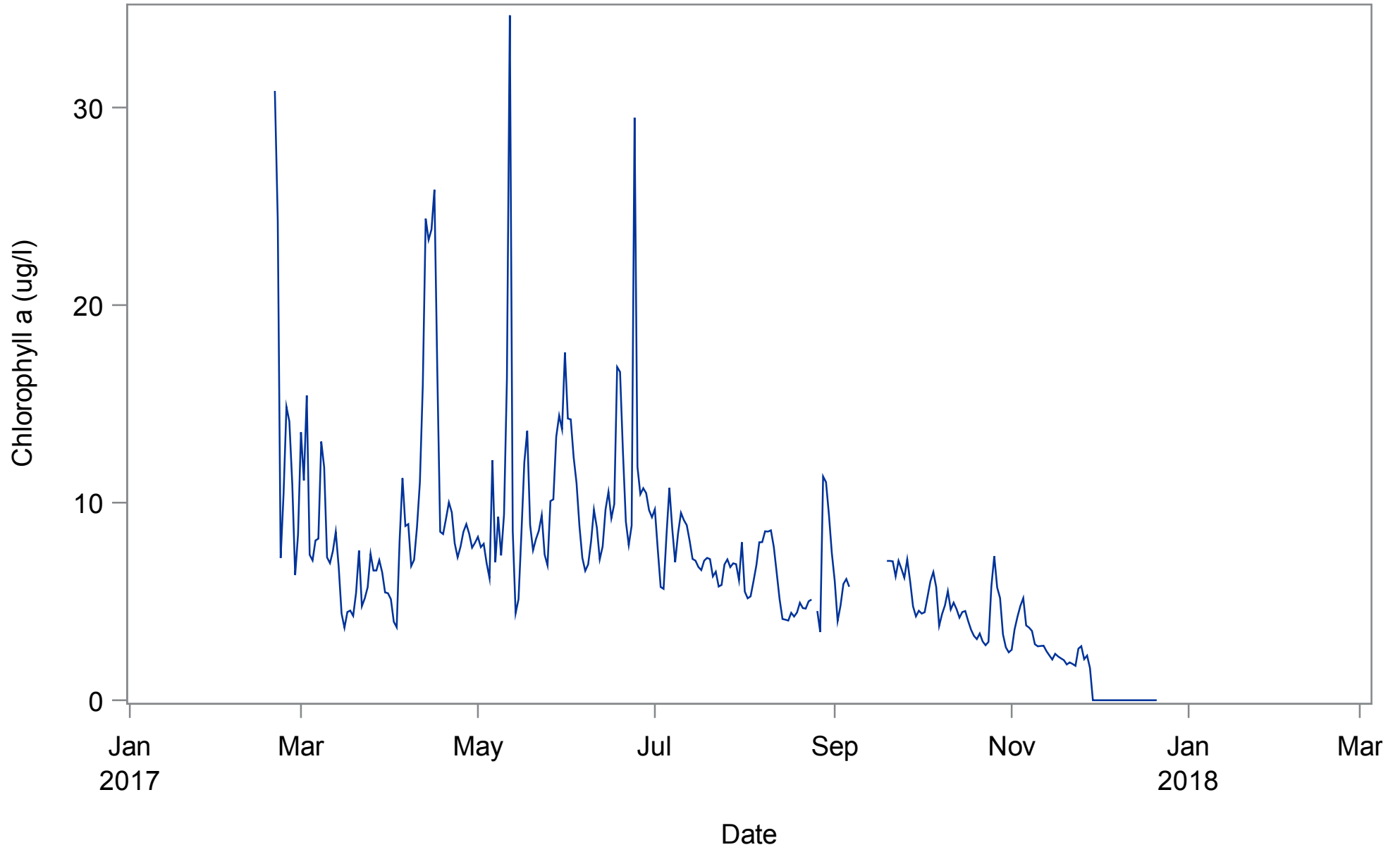
Chlorophyll a (ug/l)



Chassahowitzka River

Chass Near USGS Gage

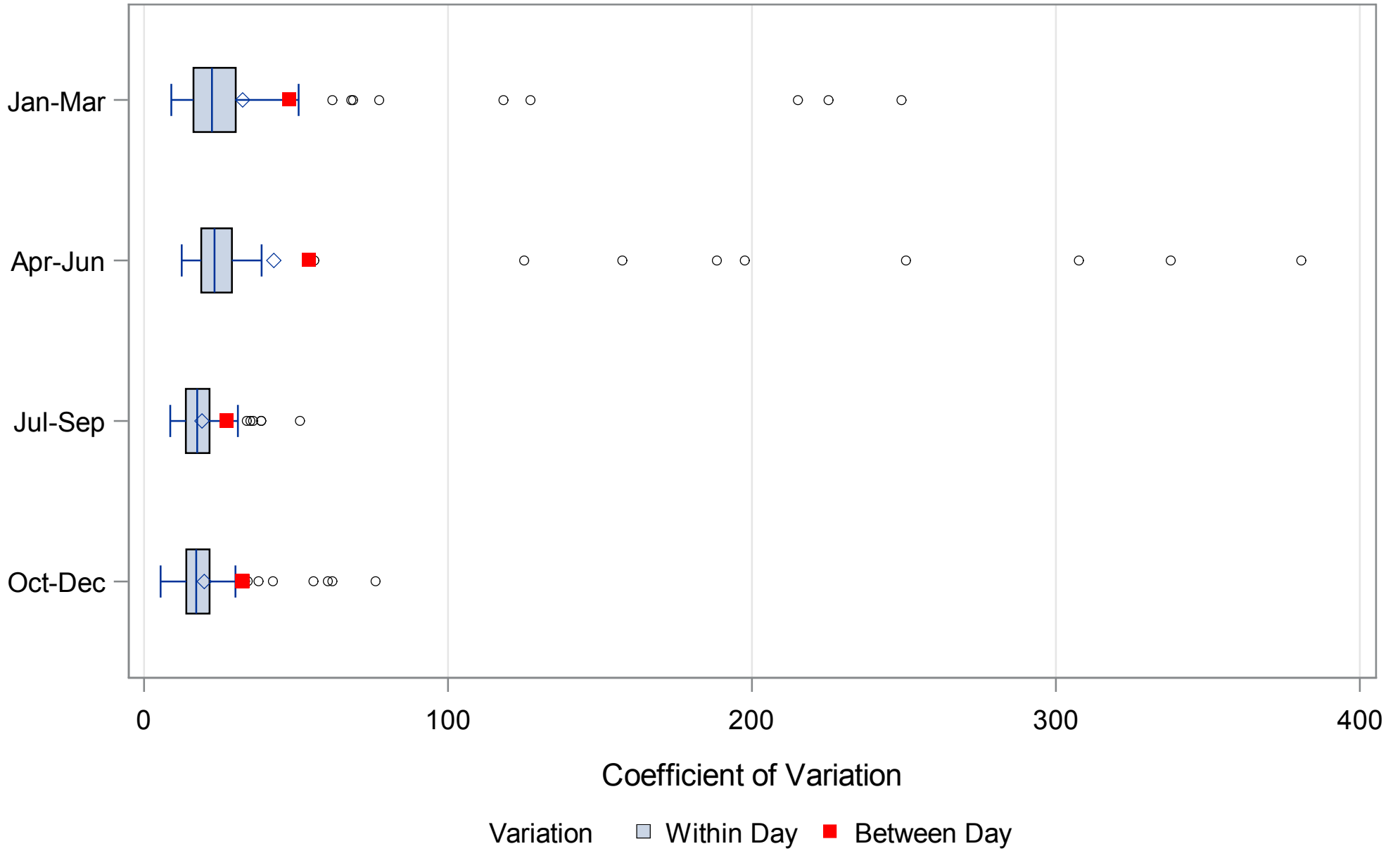
Chlorophyll a (ug/l)



Chassahowitzka River

Chass Near Mouth

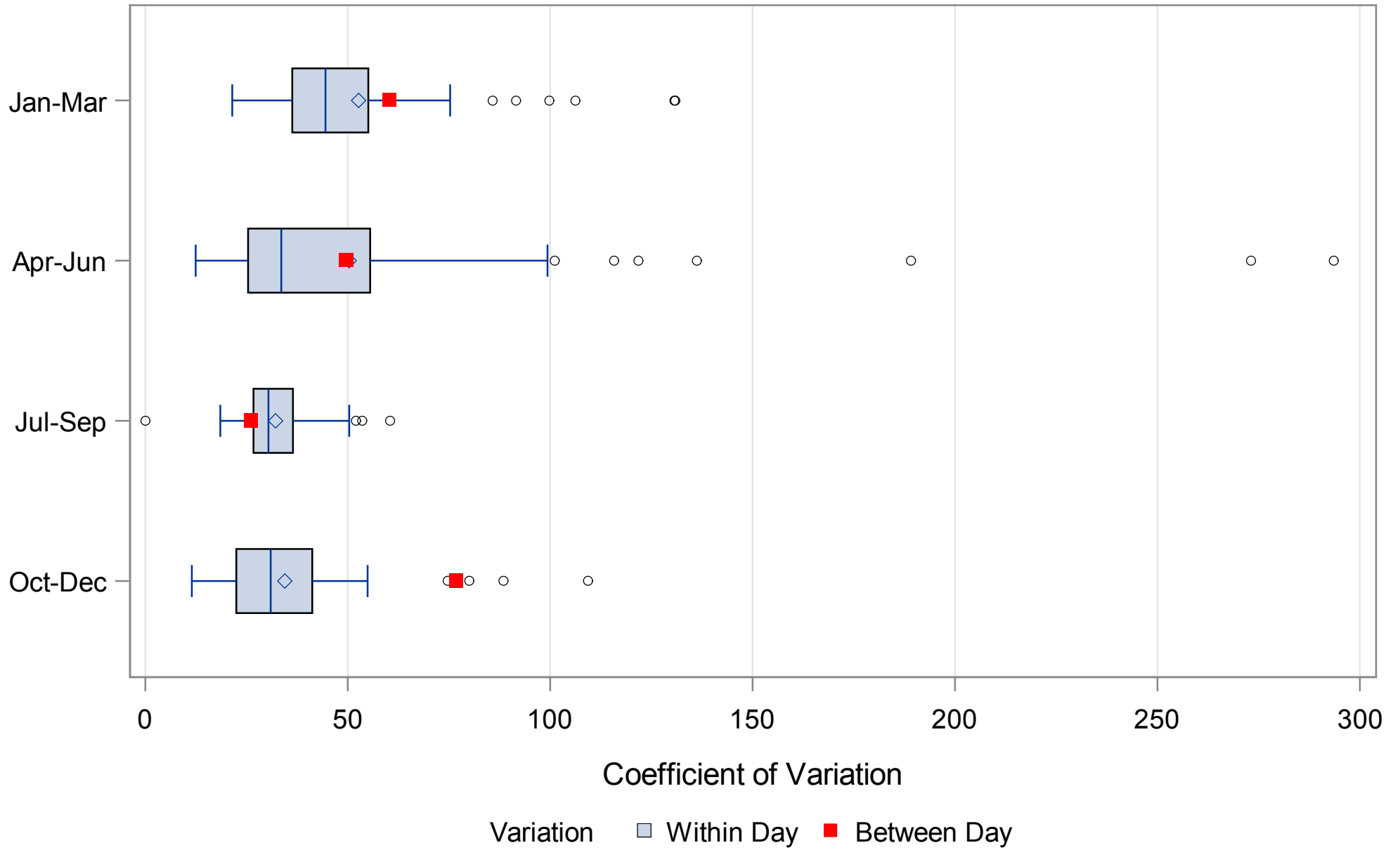
Chlorophyll a (ug/l)



Chassahowitzka River

Chass Near USGS Gage

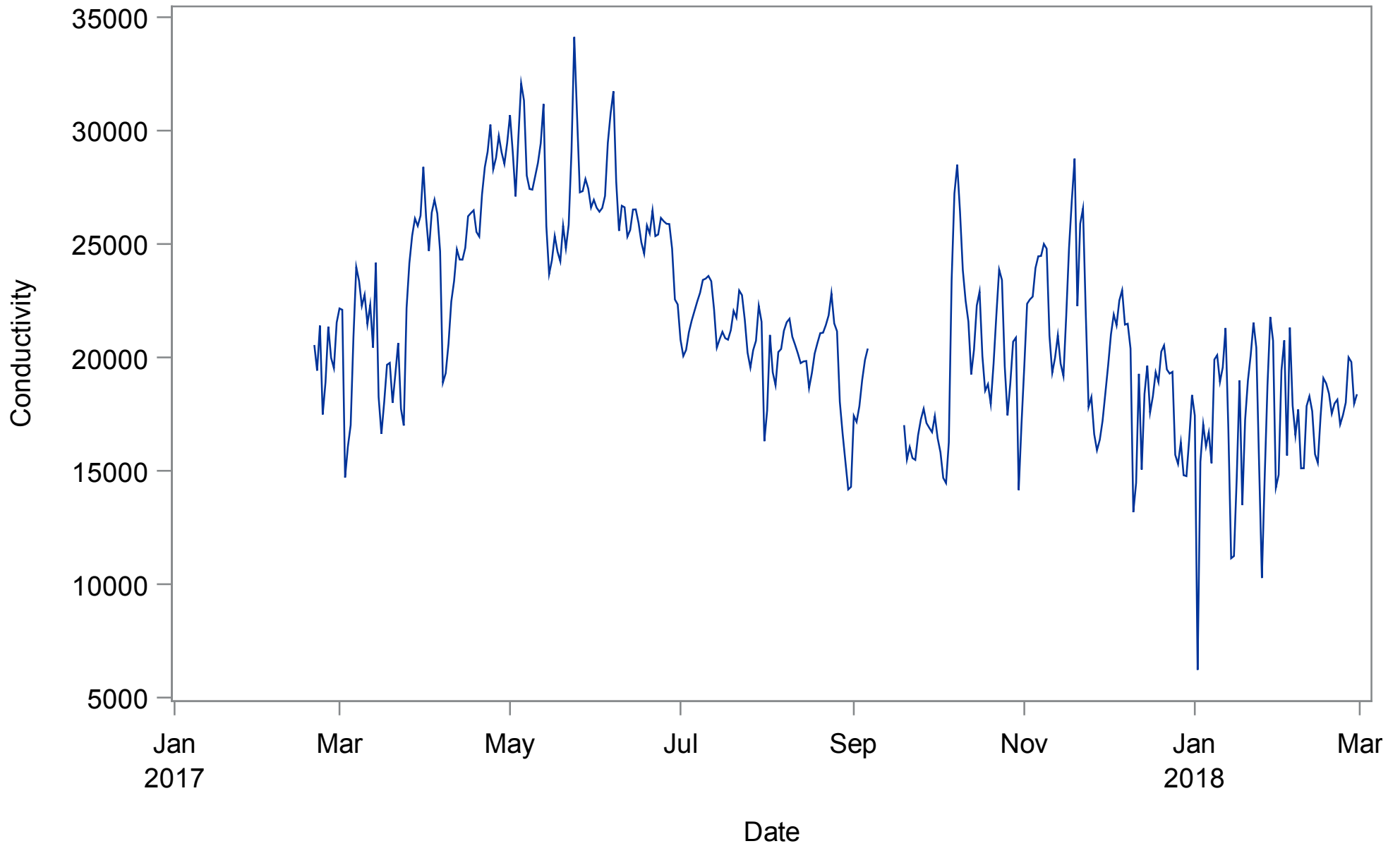
Chlorophyll a (ug/l)



Chassahowitzka River

Chass Near Mouth

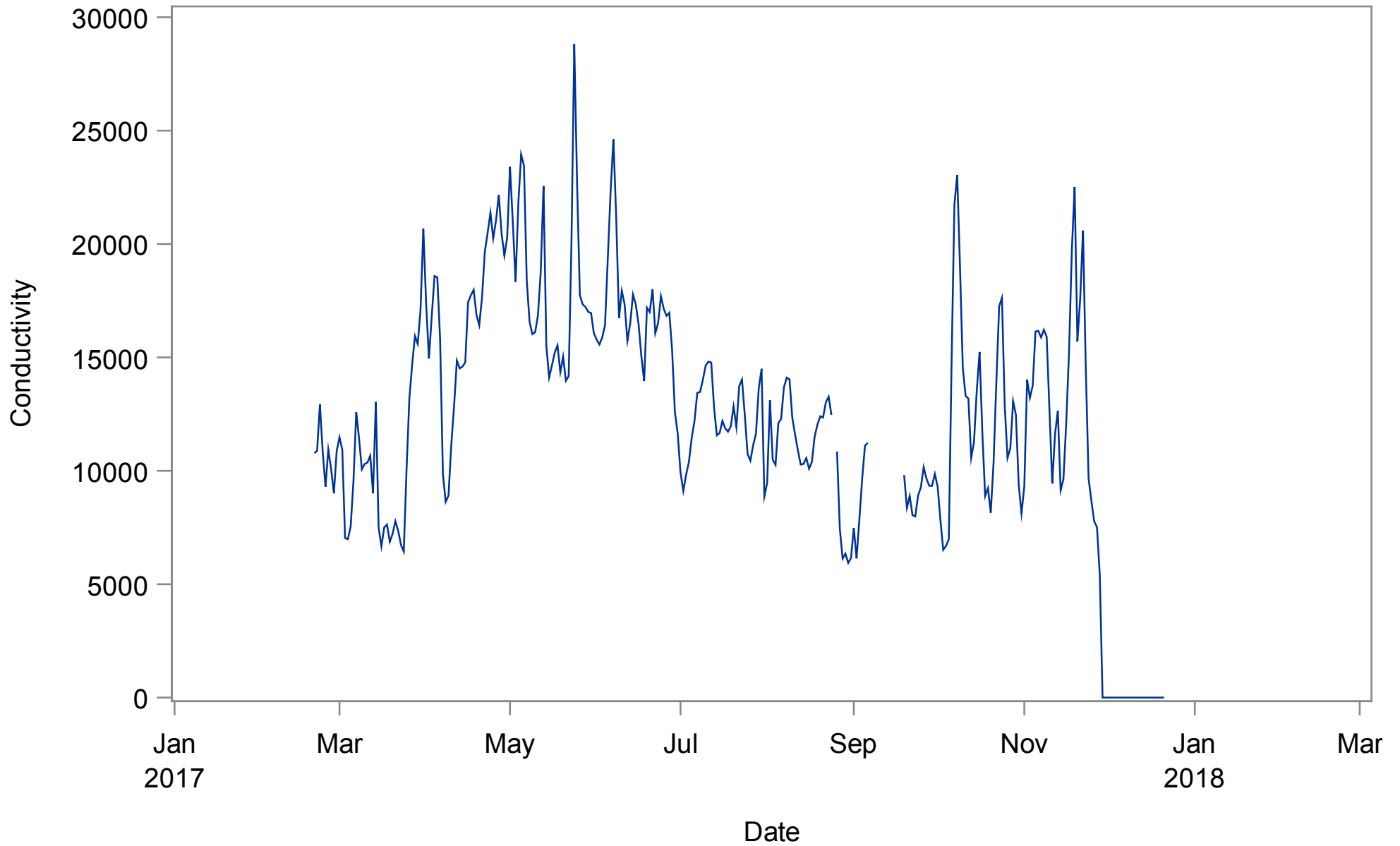
Conductivity



Chassahowitzka River

Chass Near USGS Gage

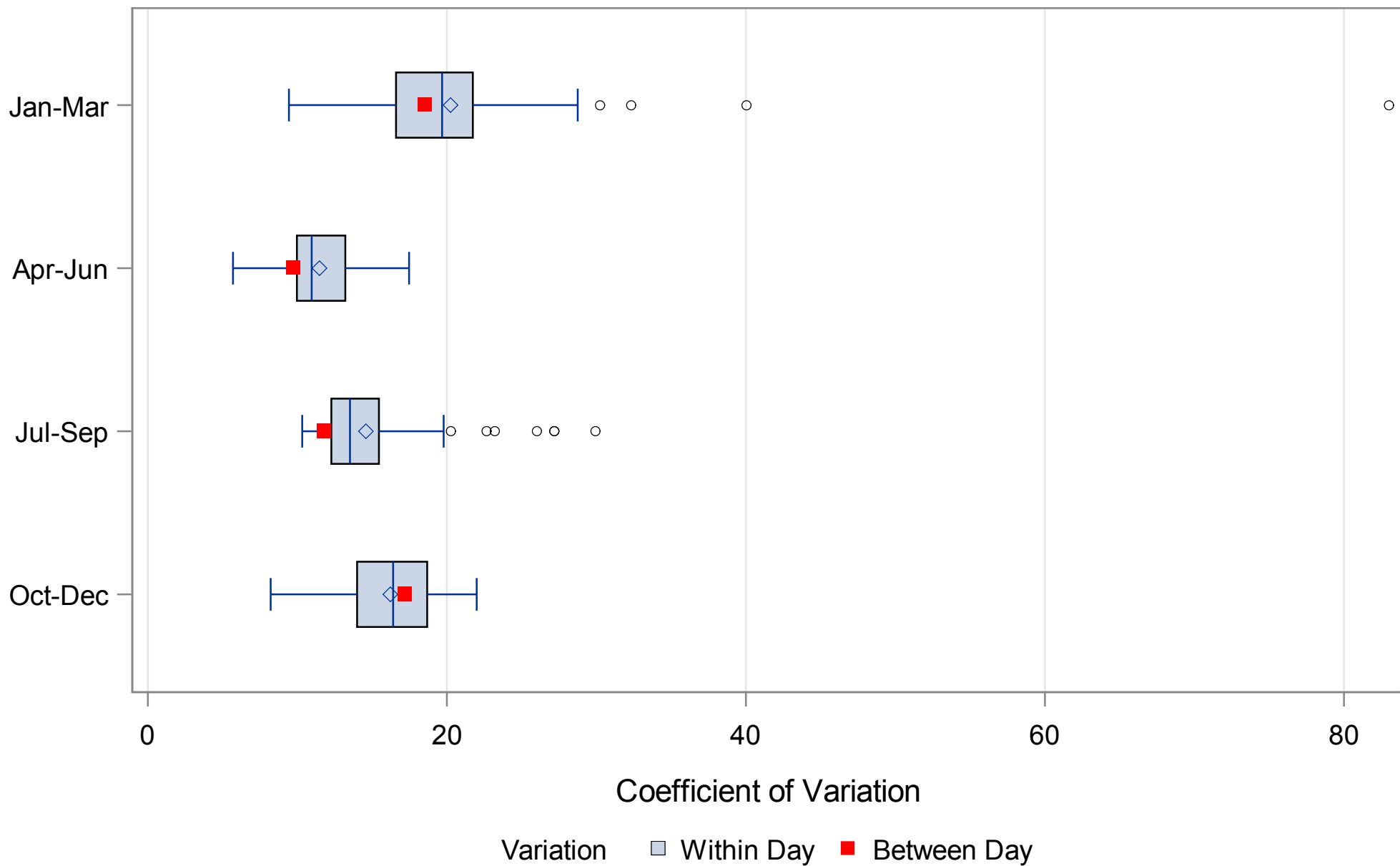
Conductivity



Chassahowitzka River

Chass Near Mouth

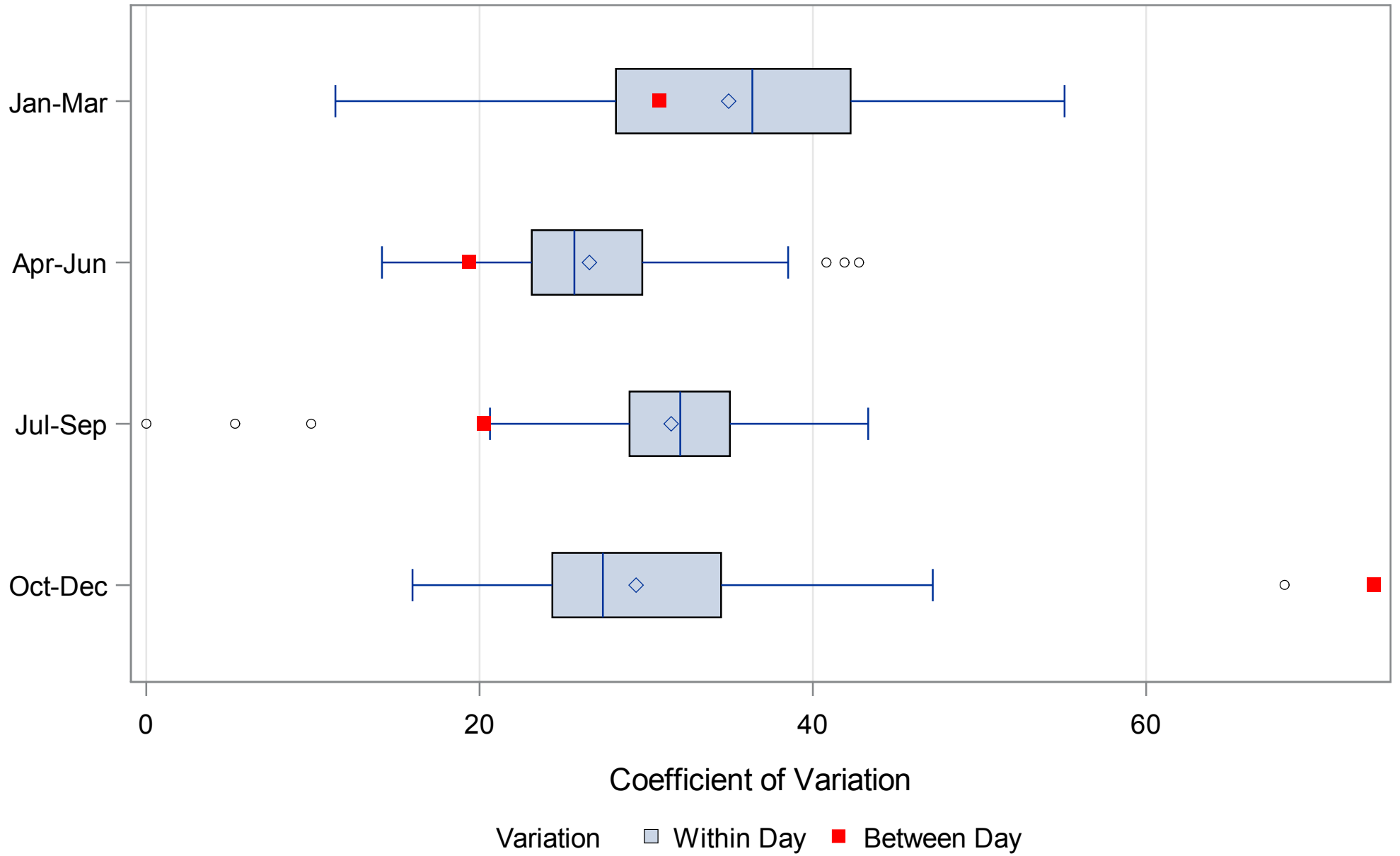
Conductivity



Chassahowitzka River

Chass Near USGS Gage

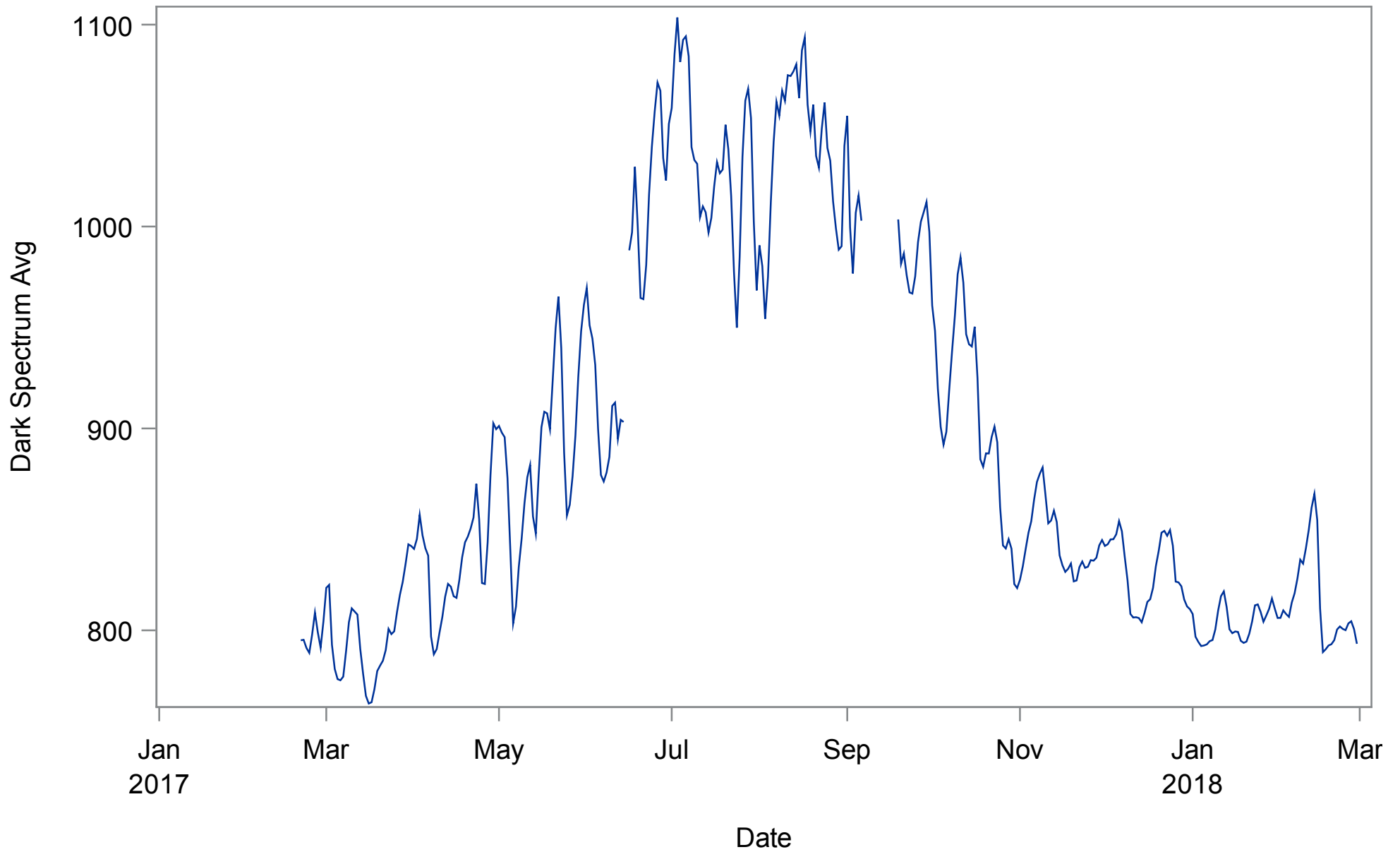
Conductivity



Chassahowitzka River

Chass Near Mouth

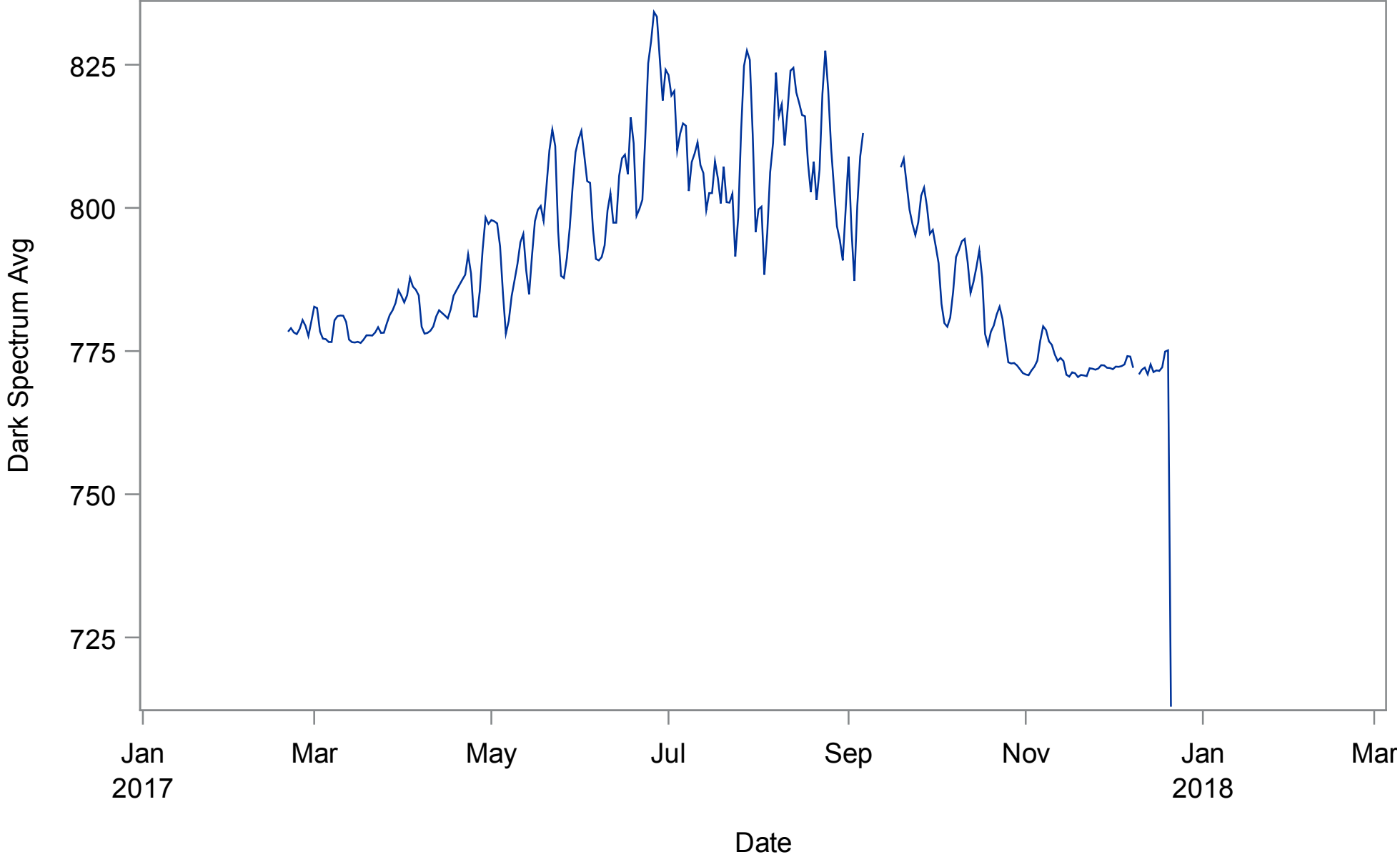
Dark Spectrum Avg



Chassahowitzka River

Chass Near USGS Gage

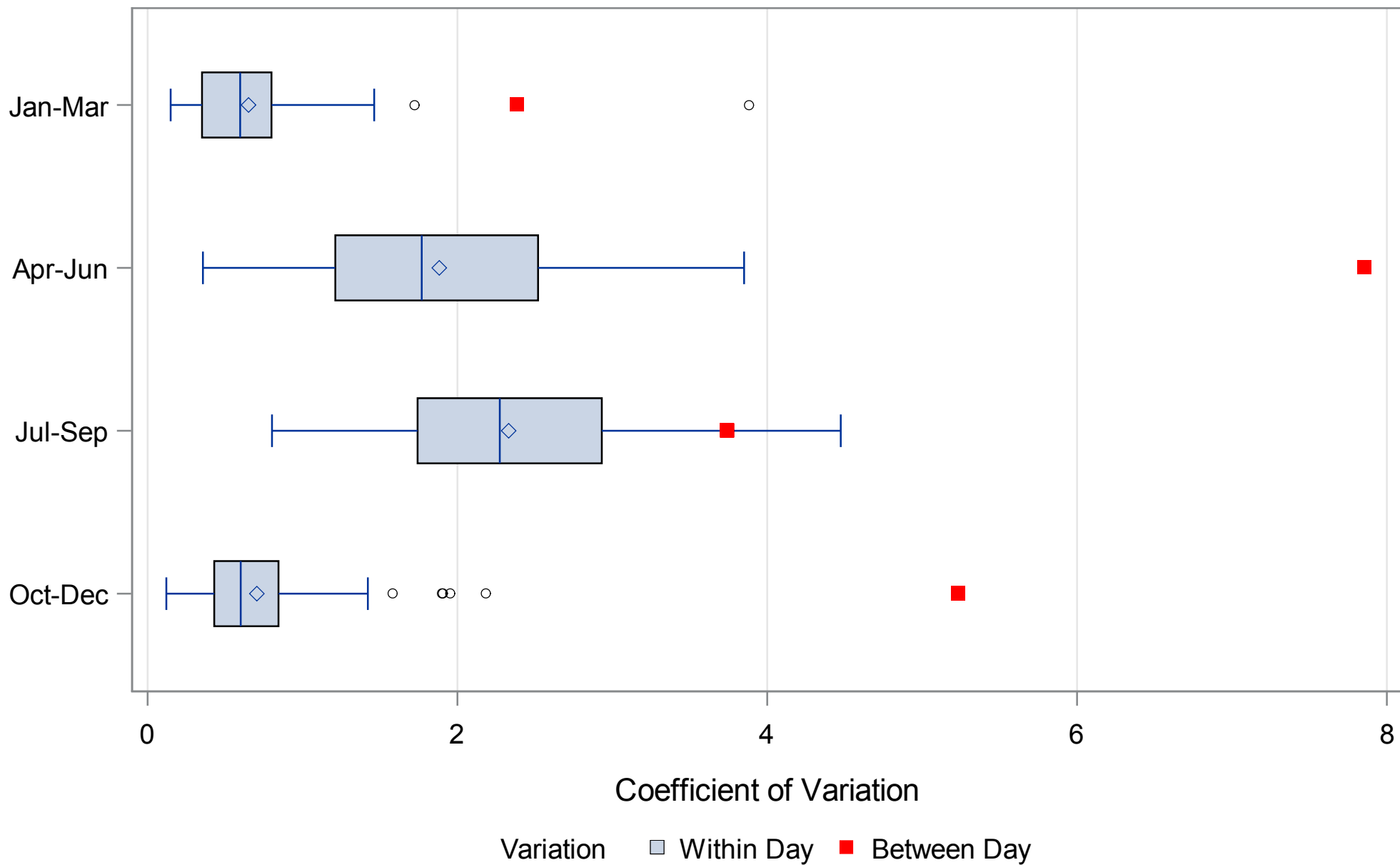
Dark Spectrum Avg



Chassahowitzka River

Chass Near Mouth

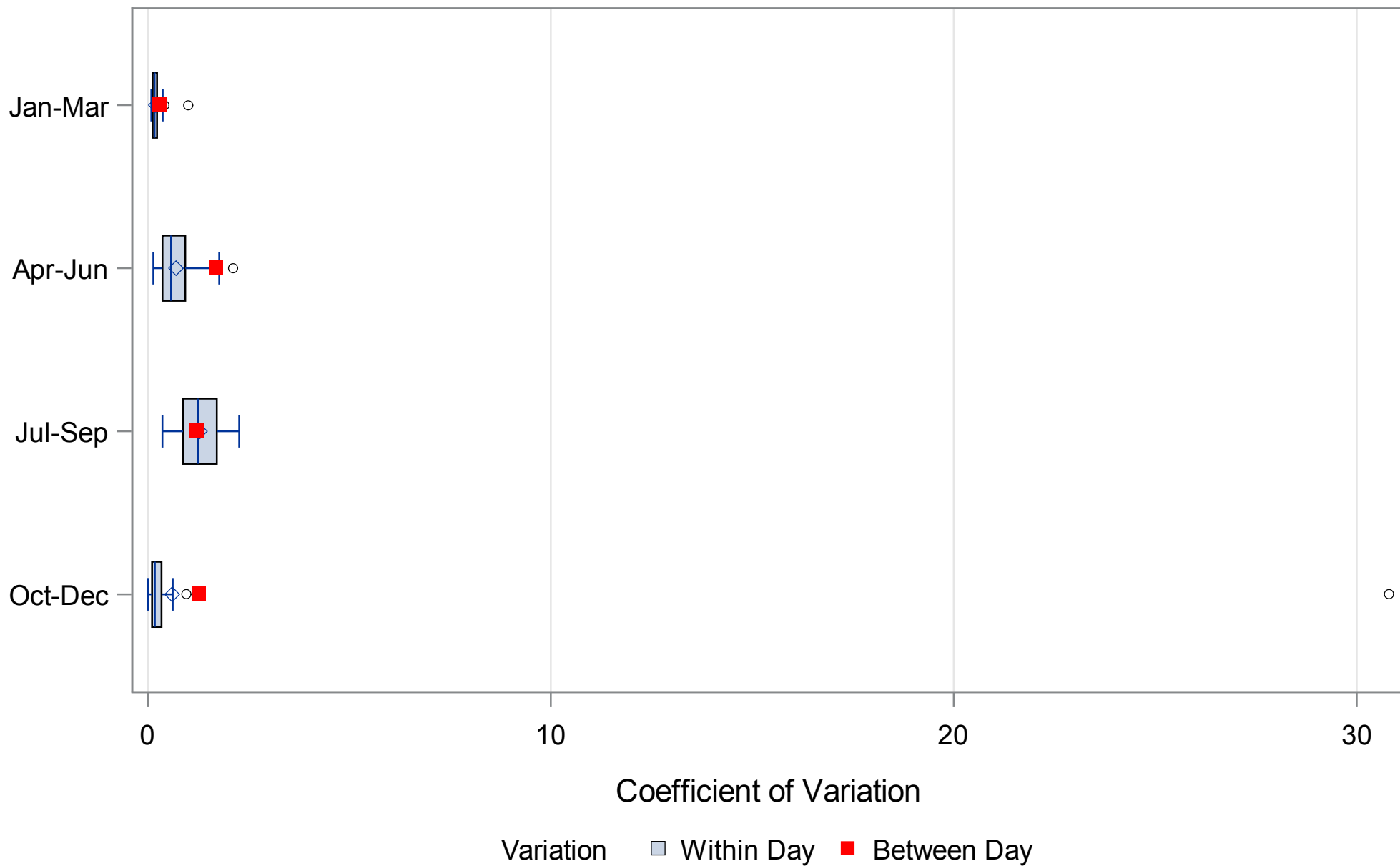
Dark Spectrum Avg



Chassahowitzka River

Chass Near USGS Gage

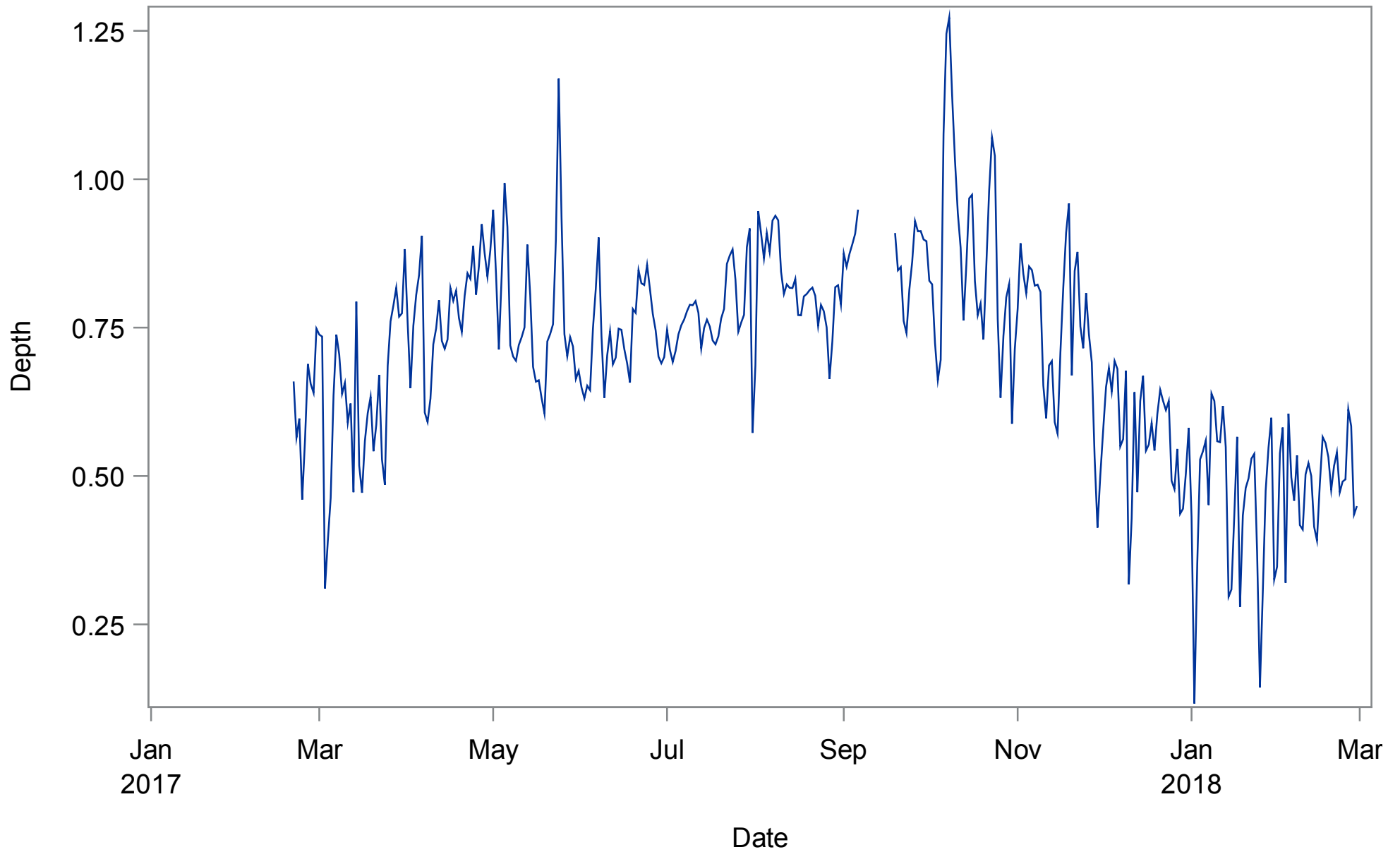
Dark Spectrum Avg



Chassahowitzka River

Chass Near Mouth

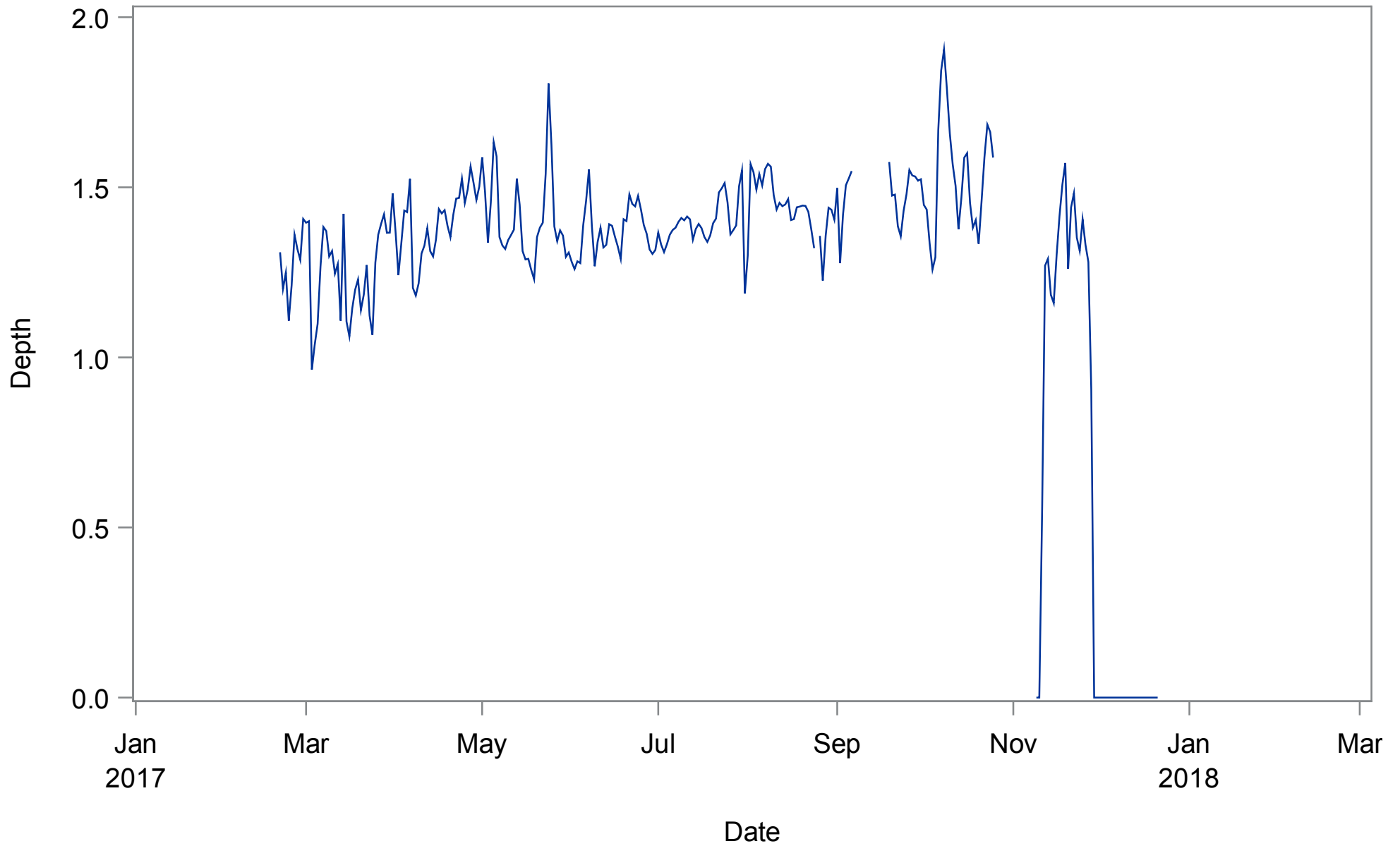
Depth



Chassahowitzka River

Chass Near USGS Gage

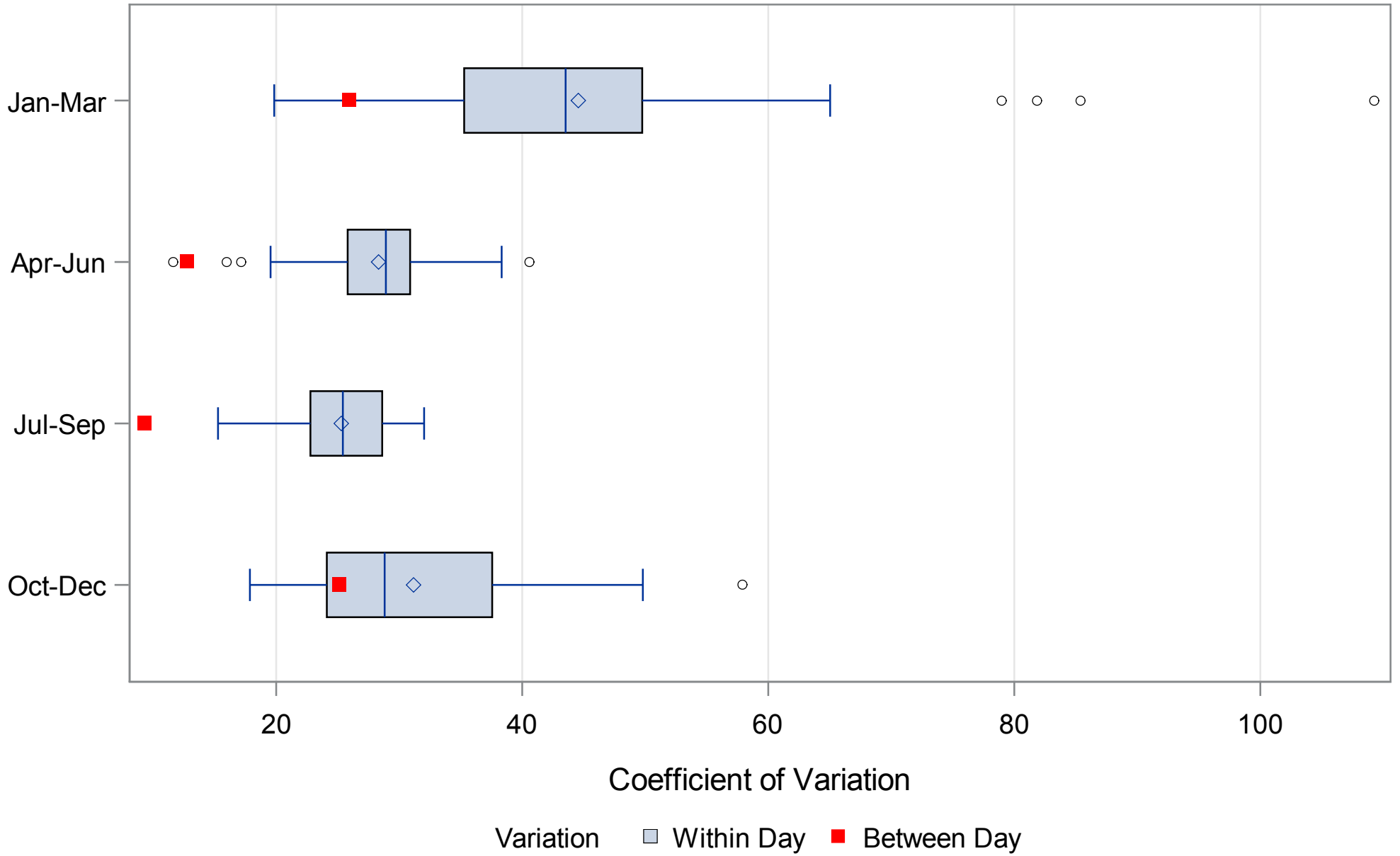
Depth



Chassahowitzka River

Chass Near Mouth

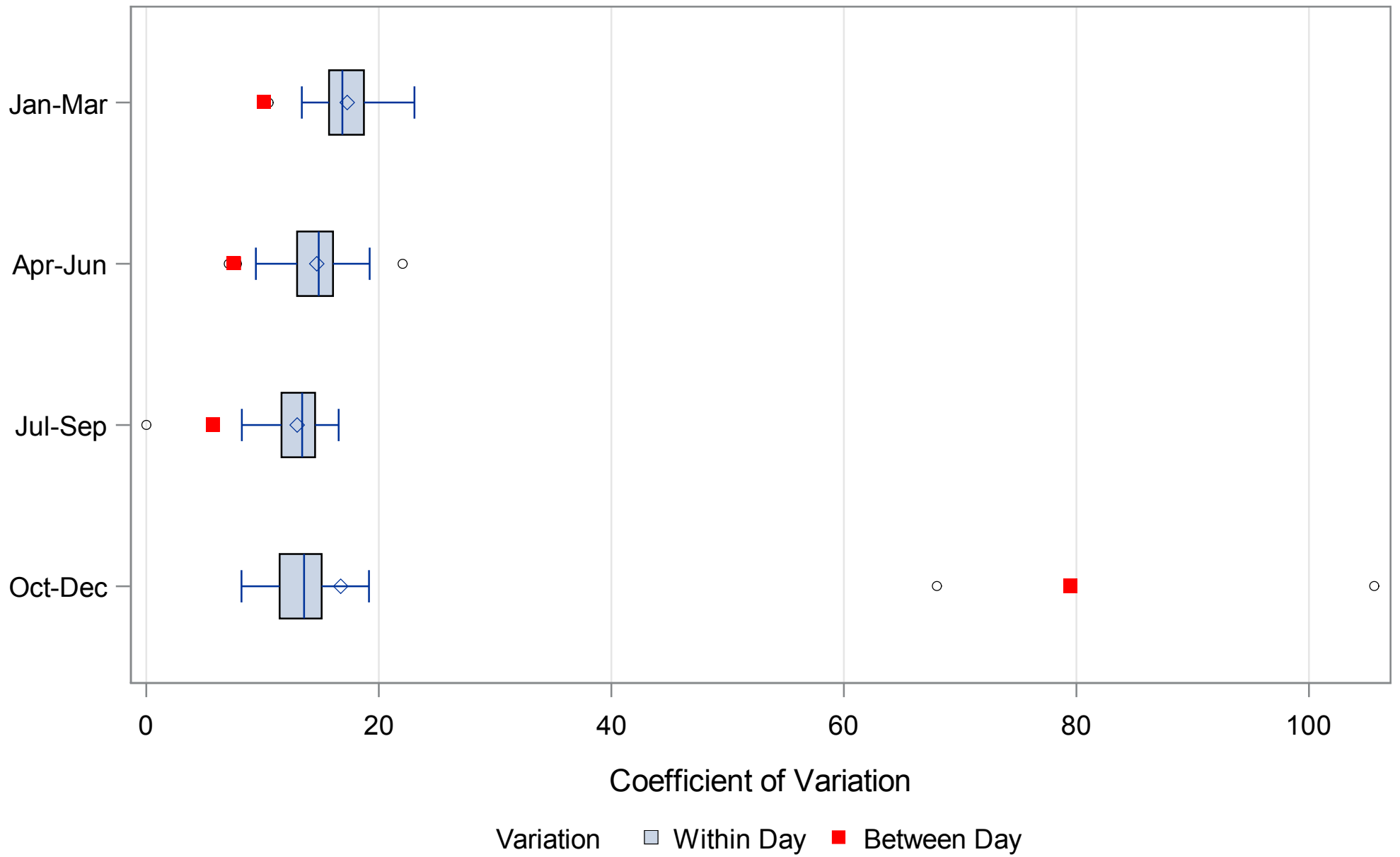
Depth



Chassahowitzka River

Chass Near USGS Gage

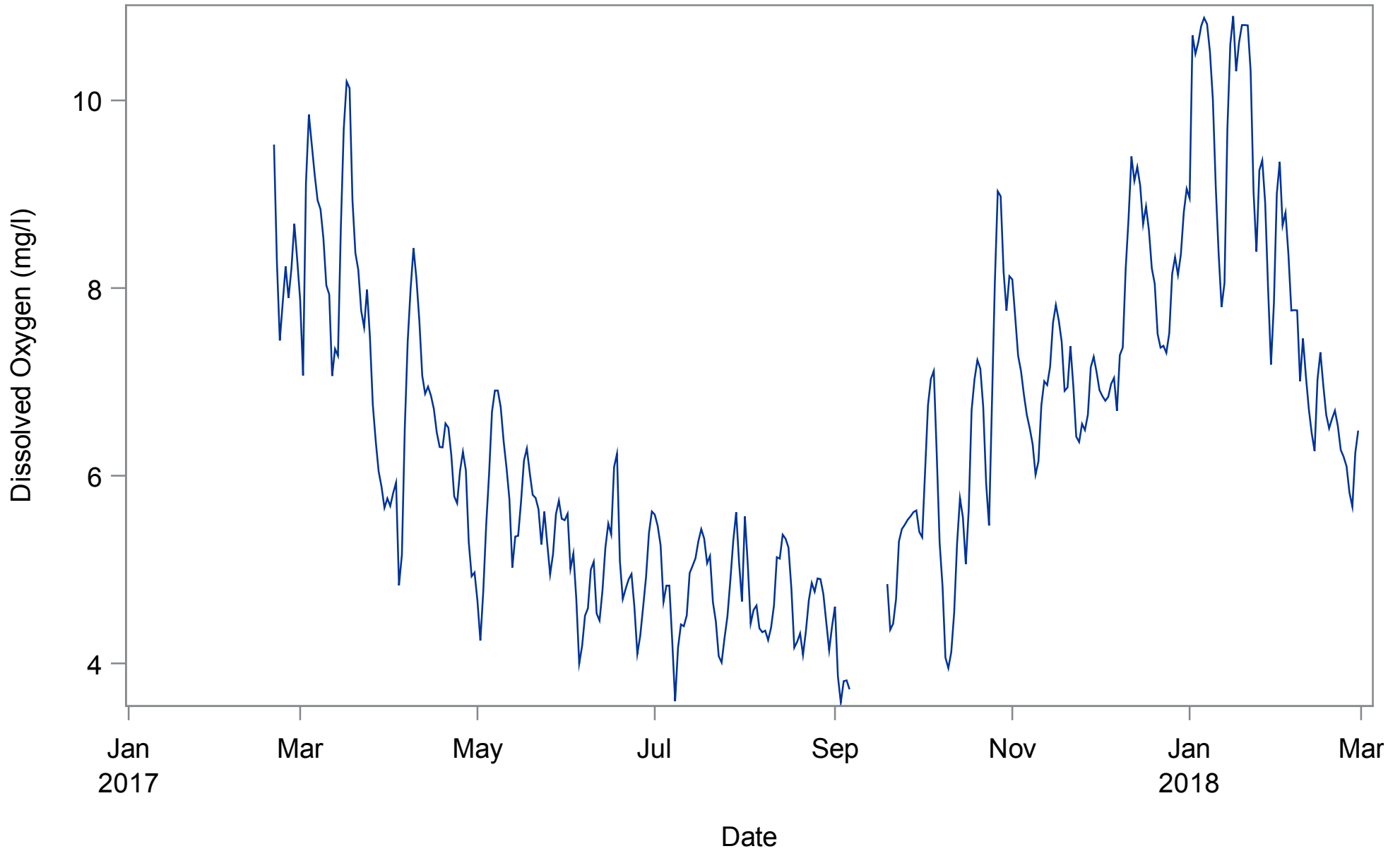
Depth



Chassahowitzka River

Chass Near Mouth

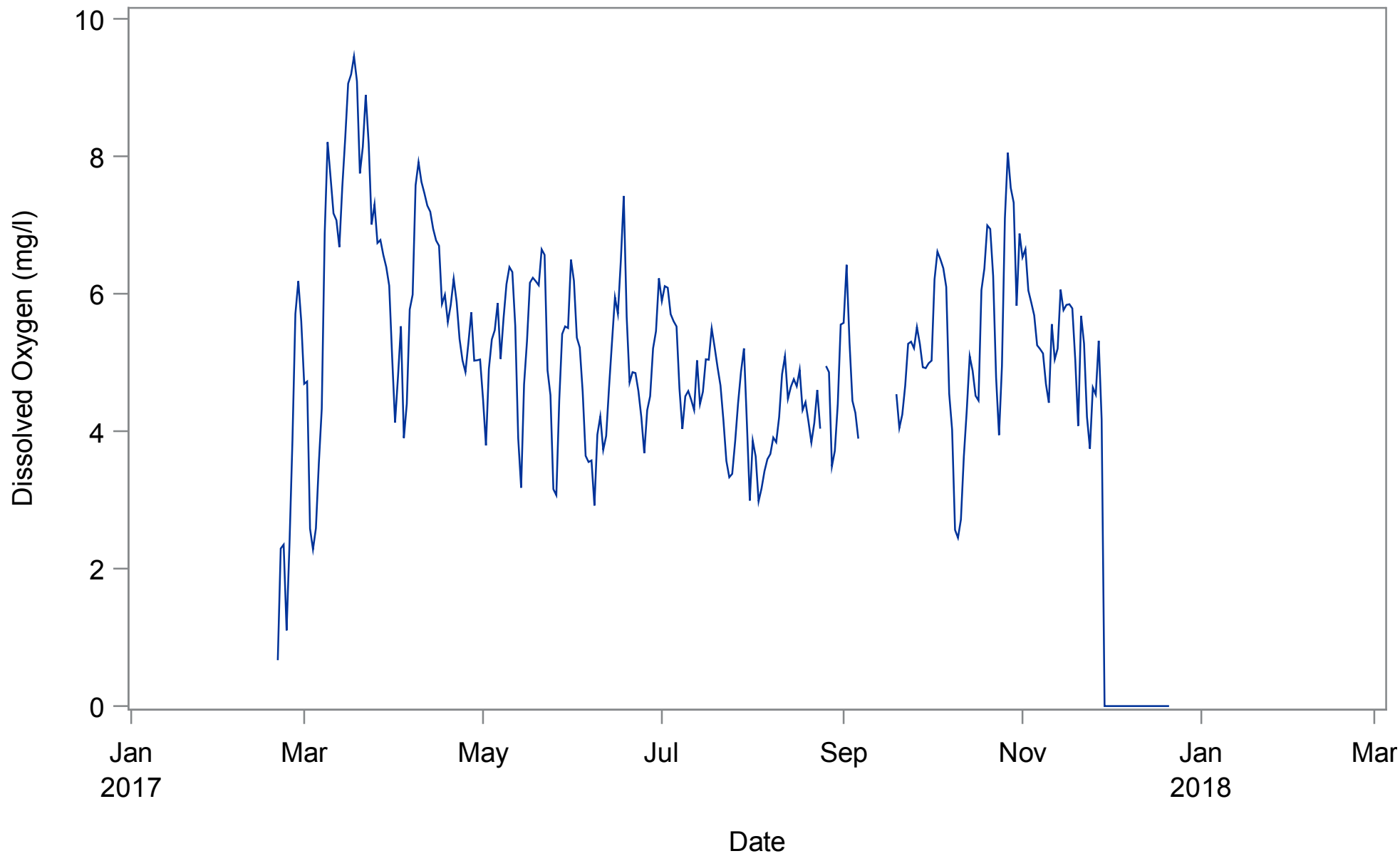
Dissolved Oxygen (mg/l)



Chassahowitzka River

Chass Near USGS Gage

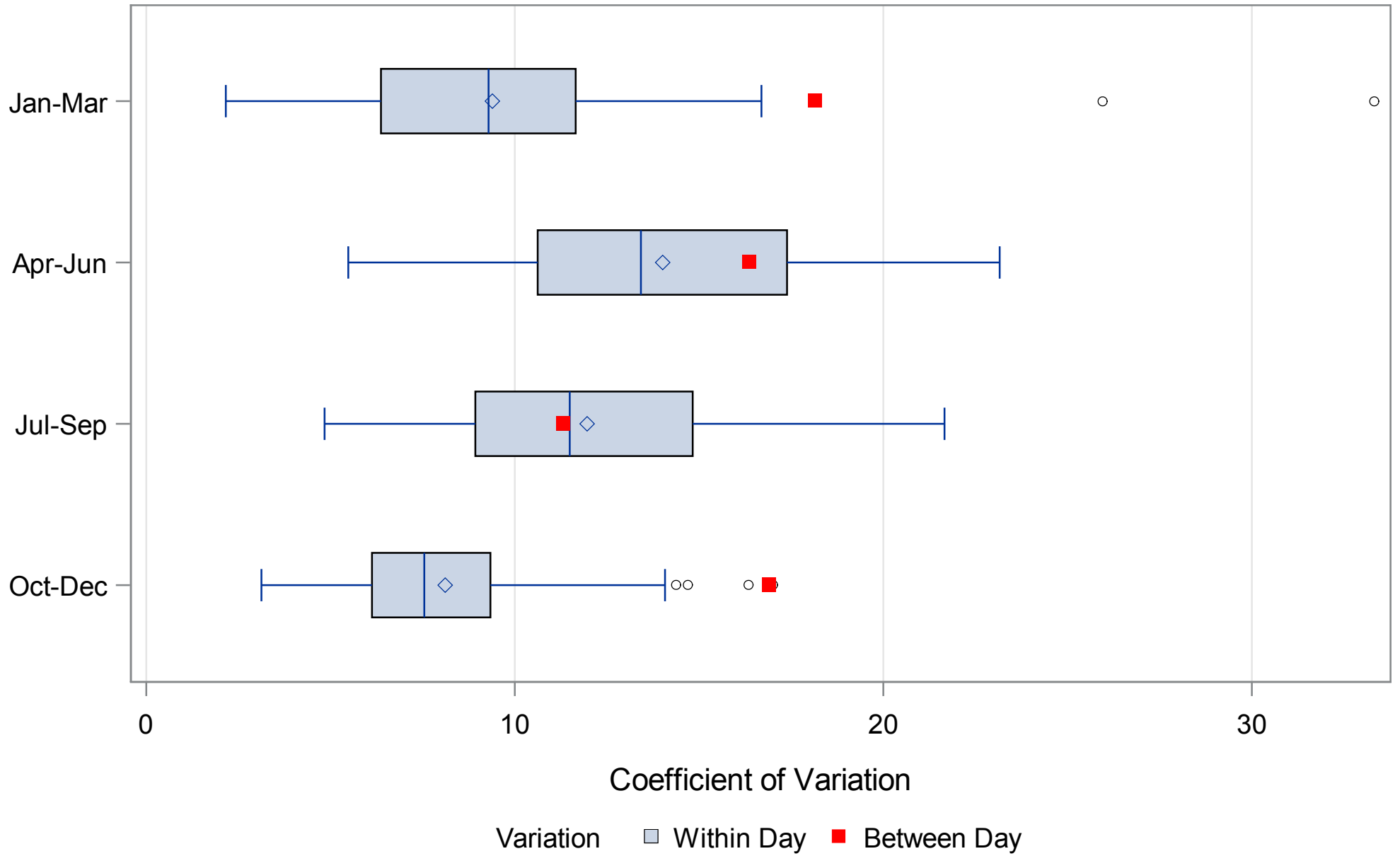
Dissolved Oxygen (mg/l)



Chassahowitzka River

Chass Near Mouth

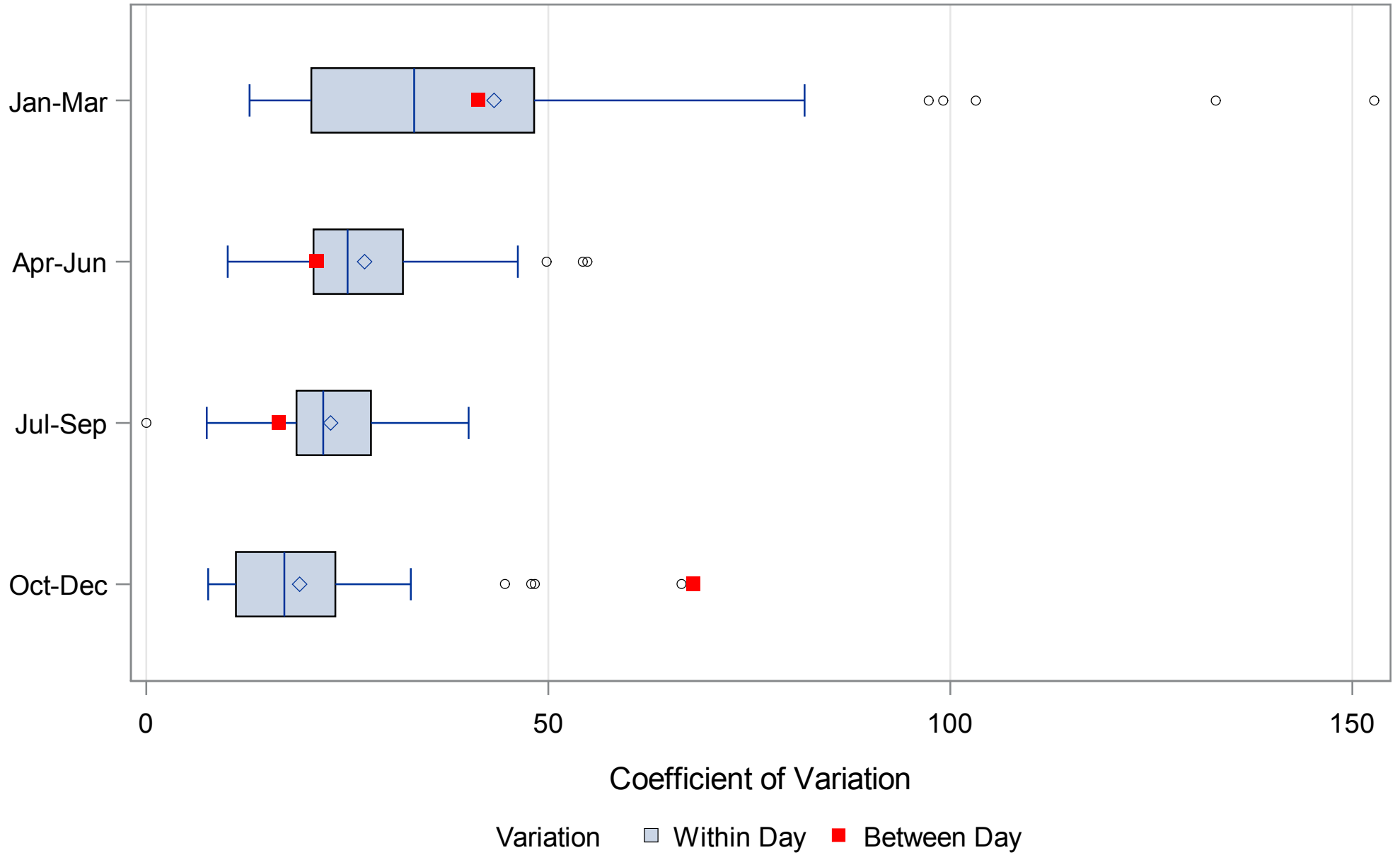
Dissolved Oxygen (mg/l)



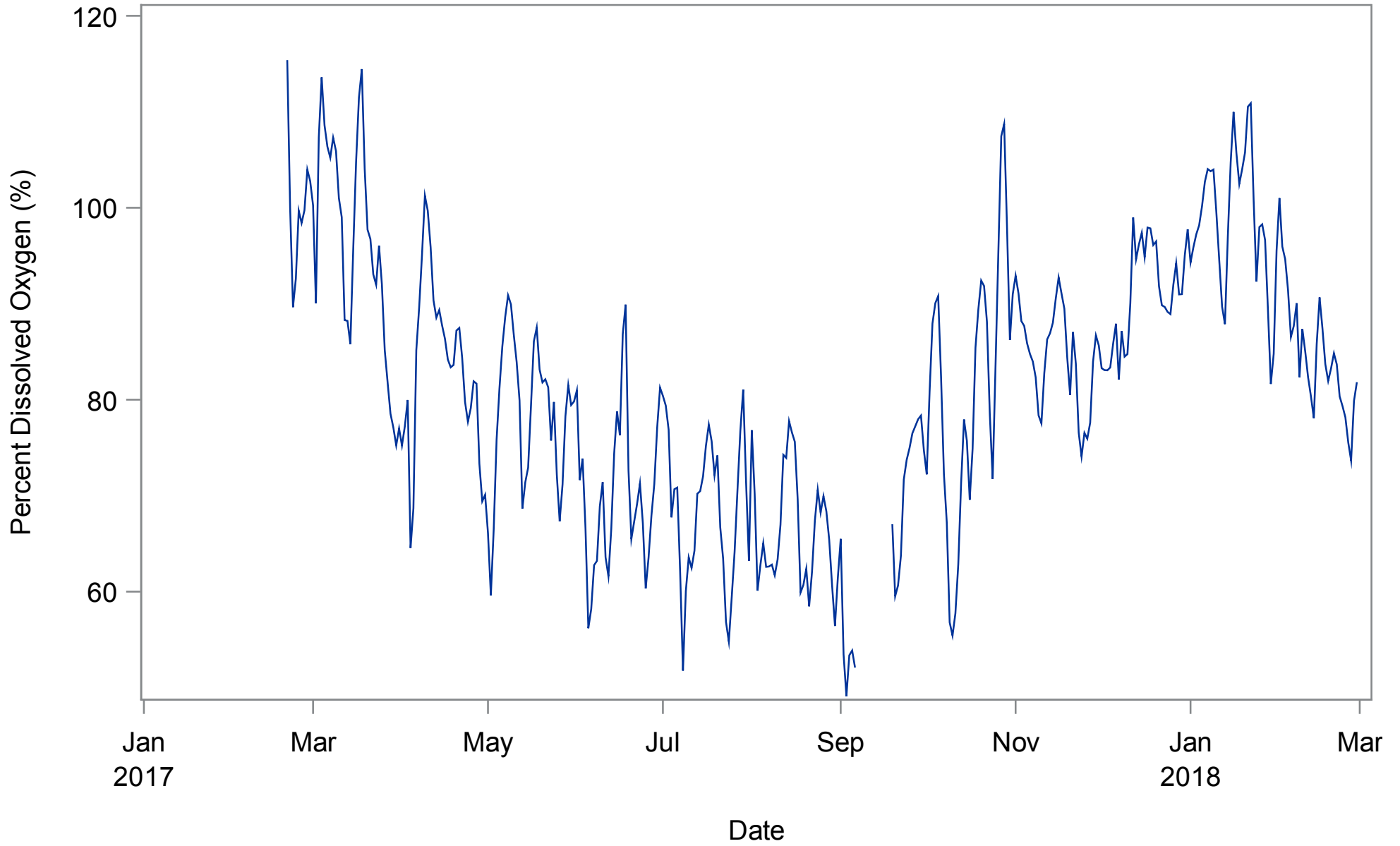
Chassahowitzka River

Chass Near USGS Gage

Dissolved Oxygen (mg/l)



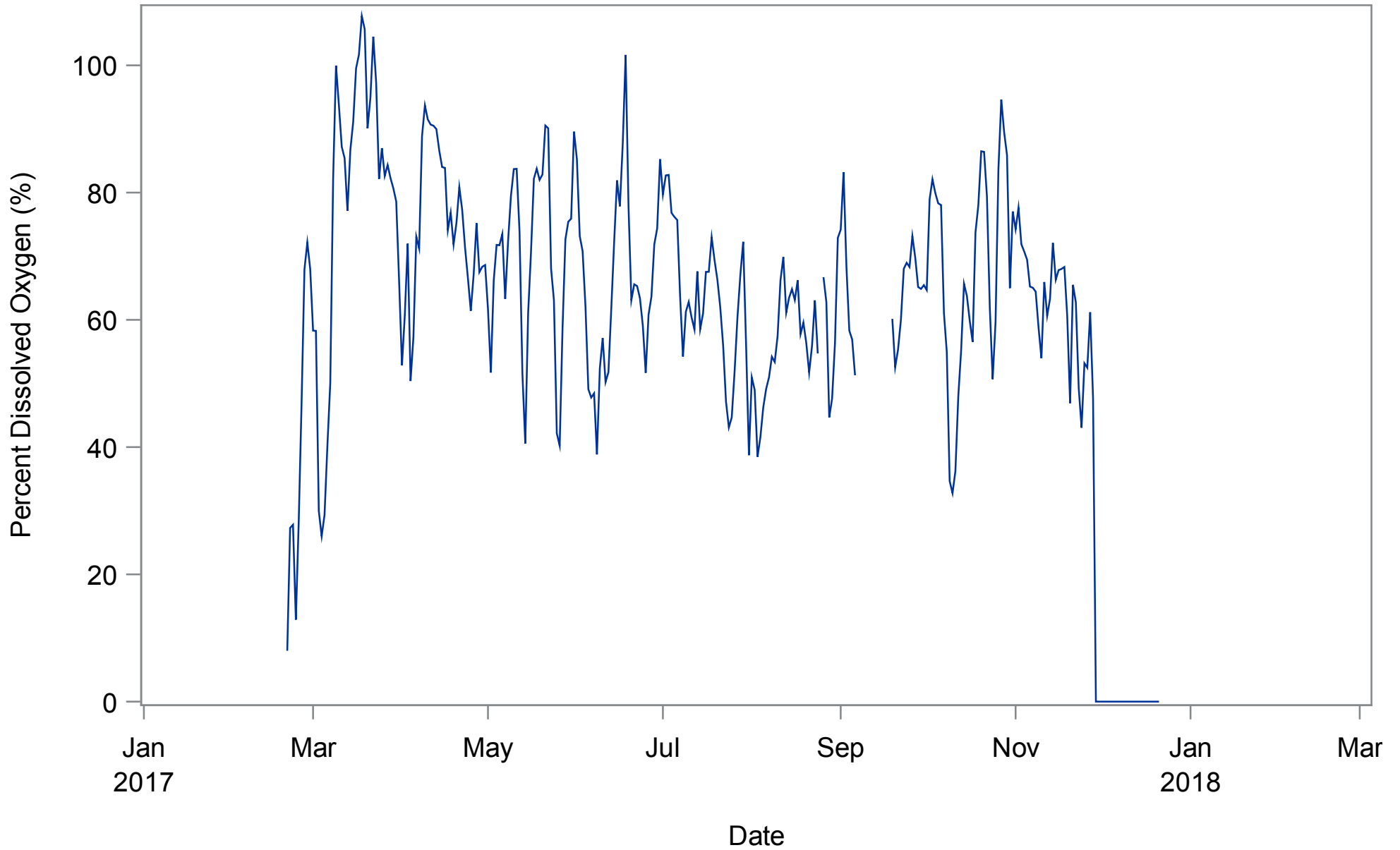
Chassahowitzka River
Chass Near Mouth
Percent Dissolved Oxygen (%)



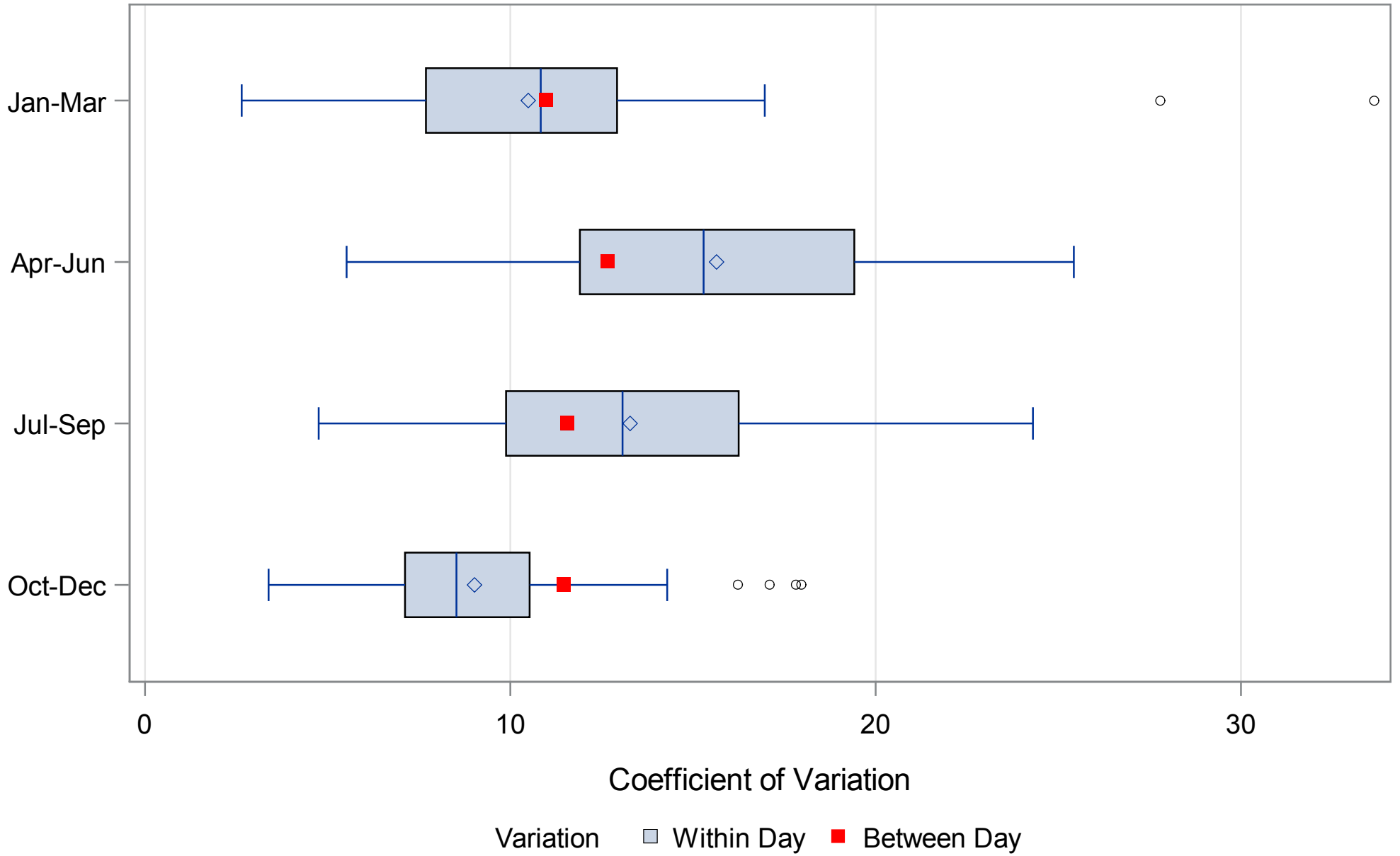
Chassahowitzka River

Chass Near USGS Gage

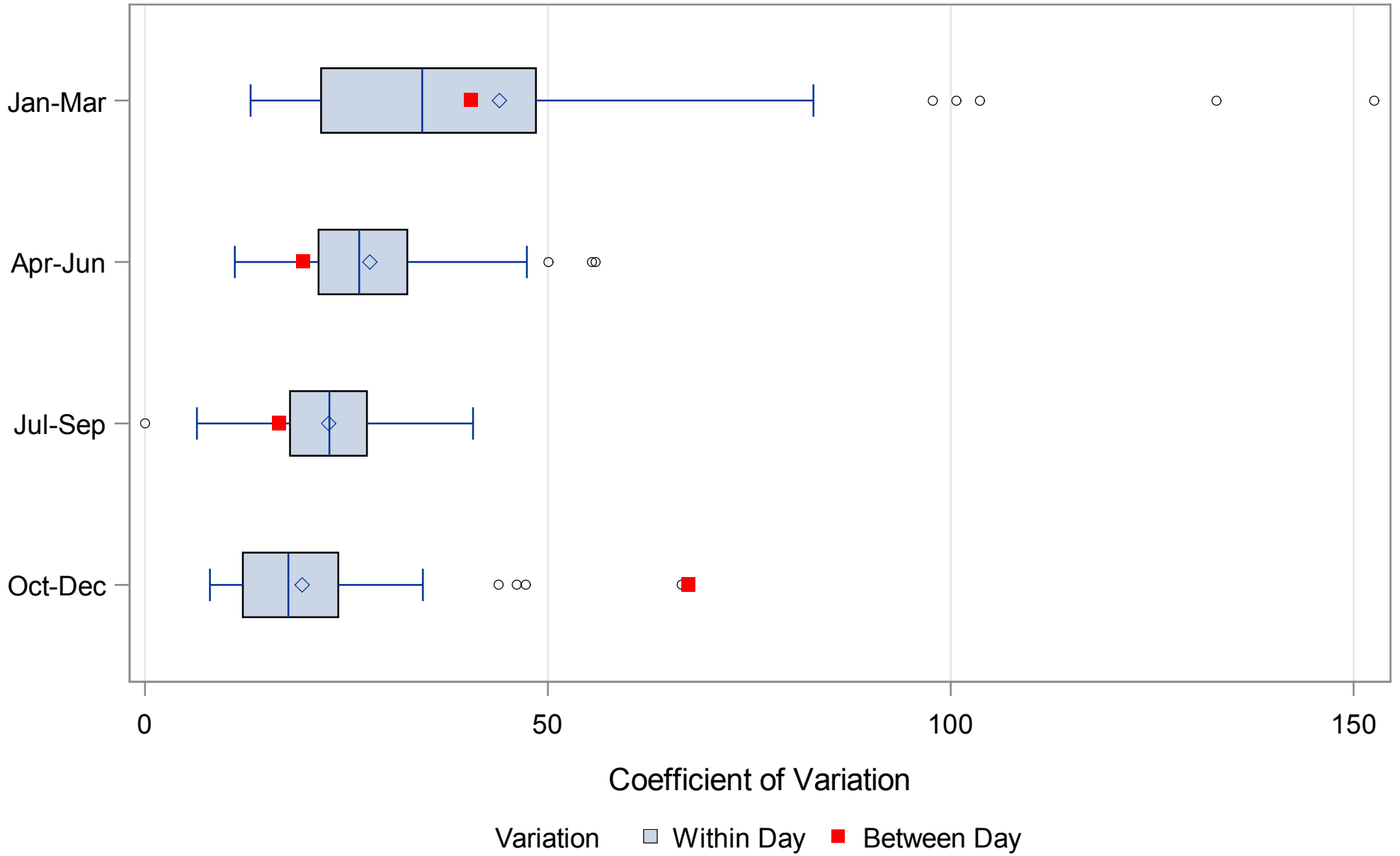
Percent Dissolved Oxygen (%)



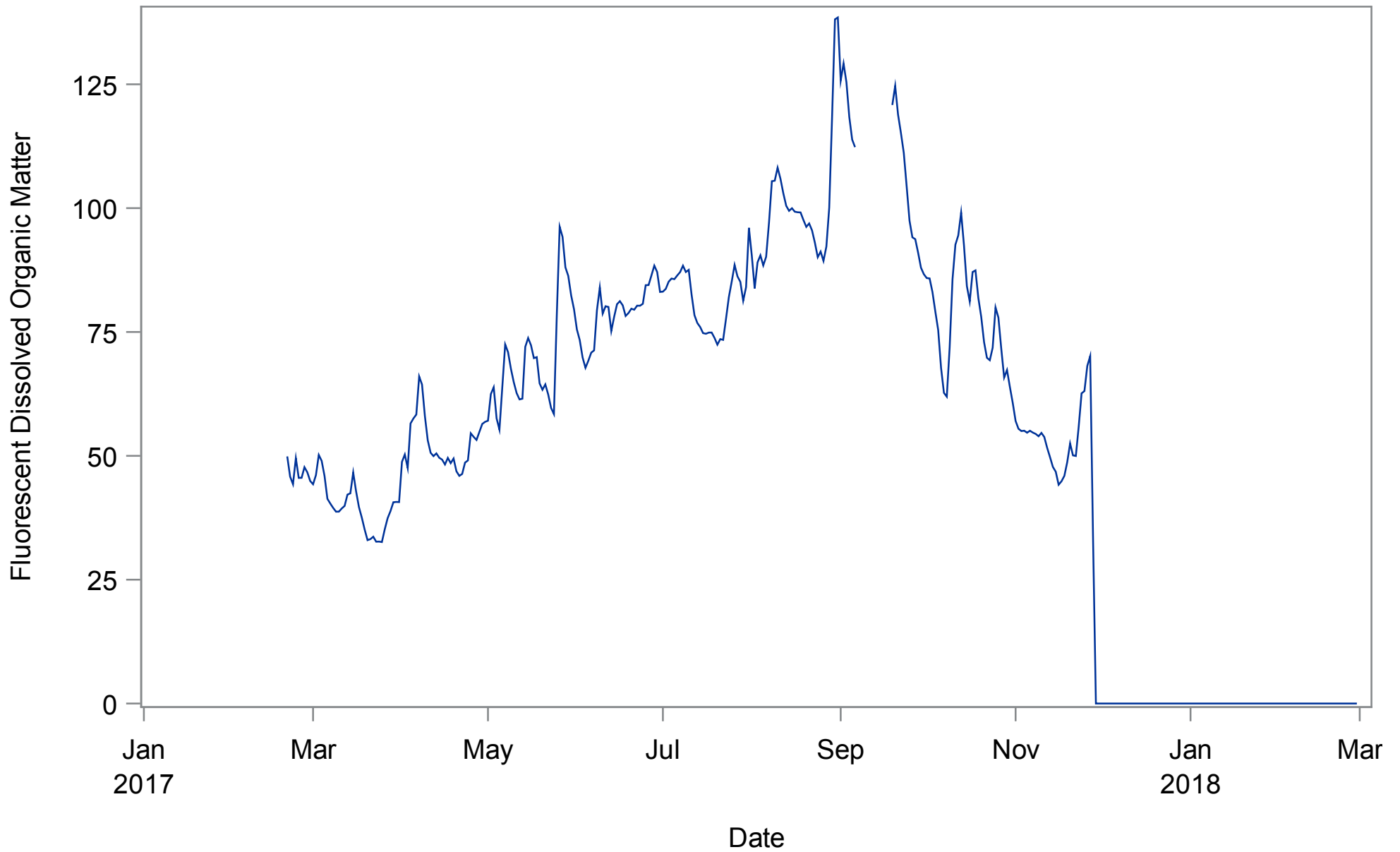
Chassahowitzka River
Chass Near Mouth
Percent Dissolved Oxygen (%)



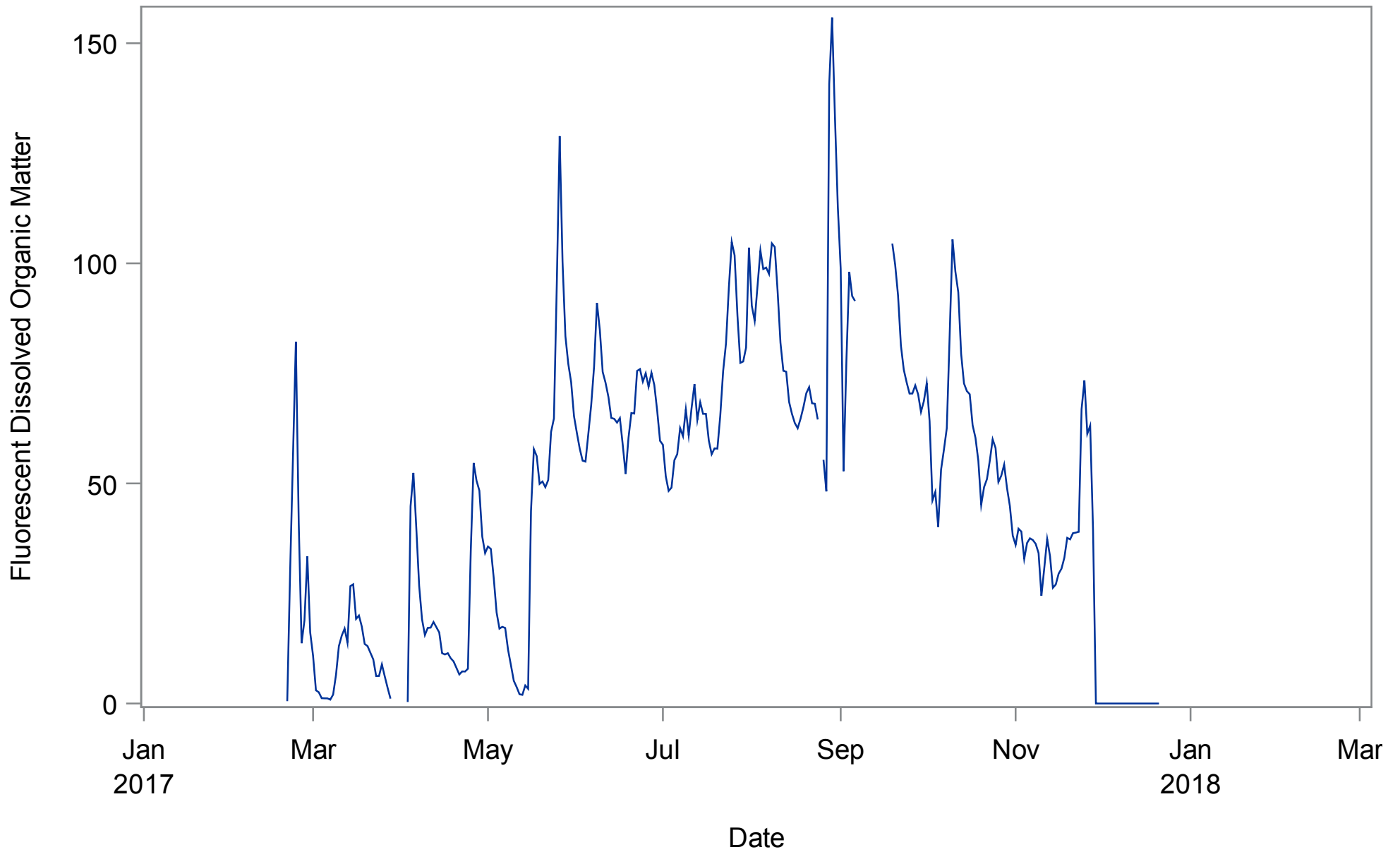
Chassahowitzka River
Chass Near USGS Gage
Percent Dissolved Oxygen (%)



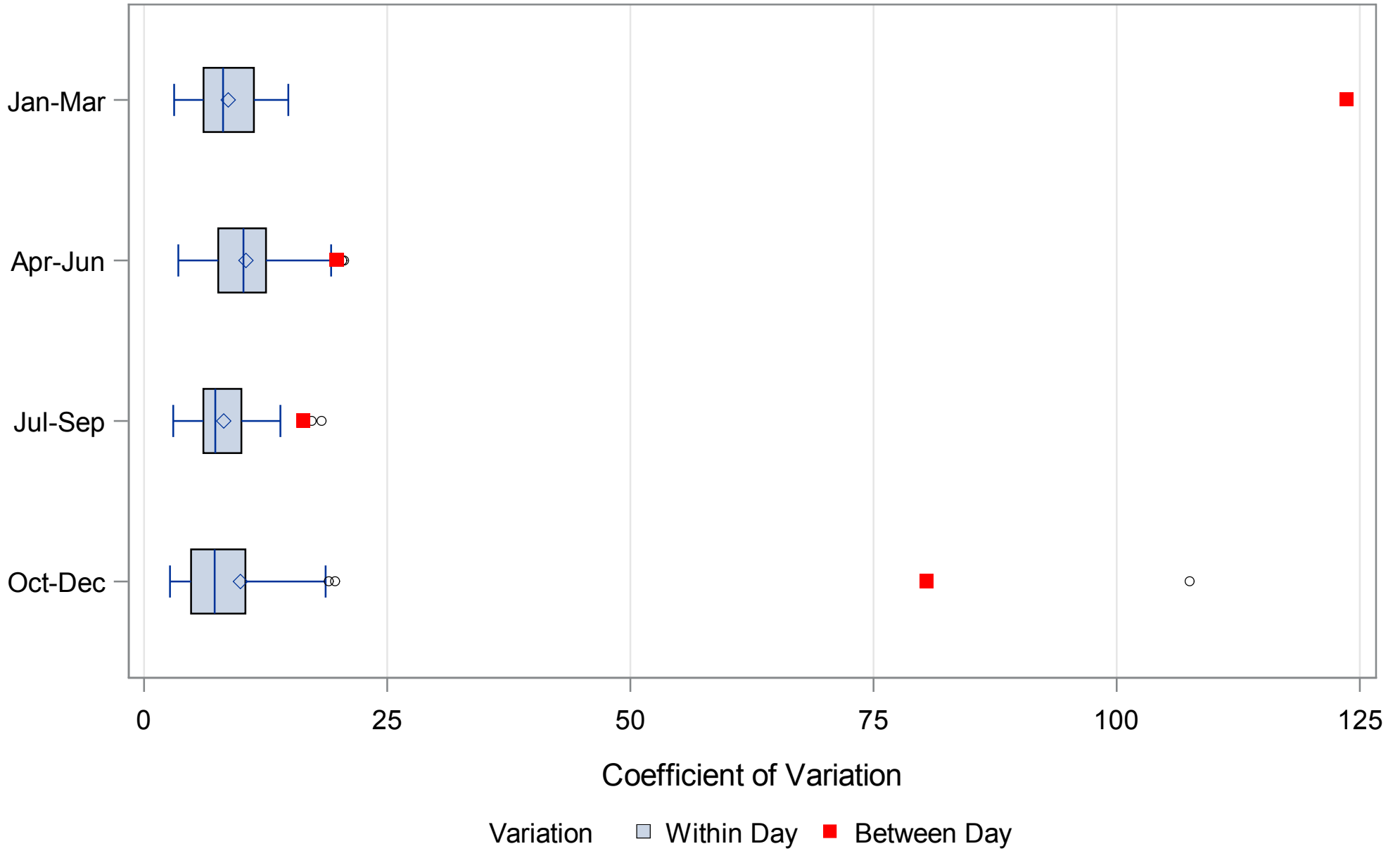
Chassahowitzka River
Chass Near Mouth
Fluorescent Dissolved Organic Matter



Chassahowitzka River
Chass Near USGS Gage
Fluorescent Dissolved Organic Matter



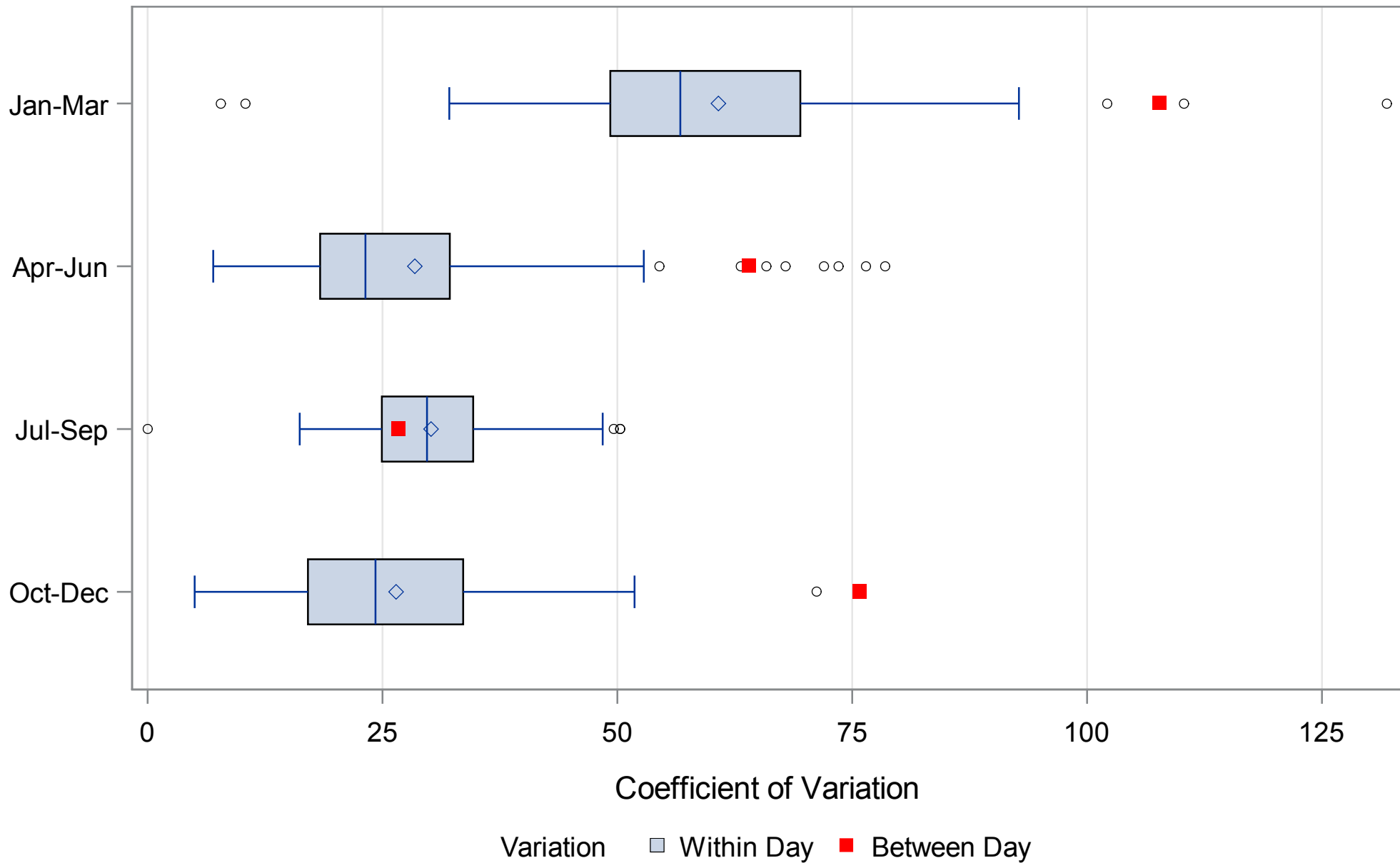
Chassahowitzka River
Chass Near Mouth
Fluorescent Dissolved Organic Matter



Chassahowitzka River

Chass Near USGS Gage

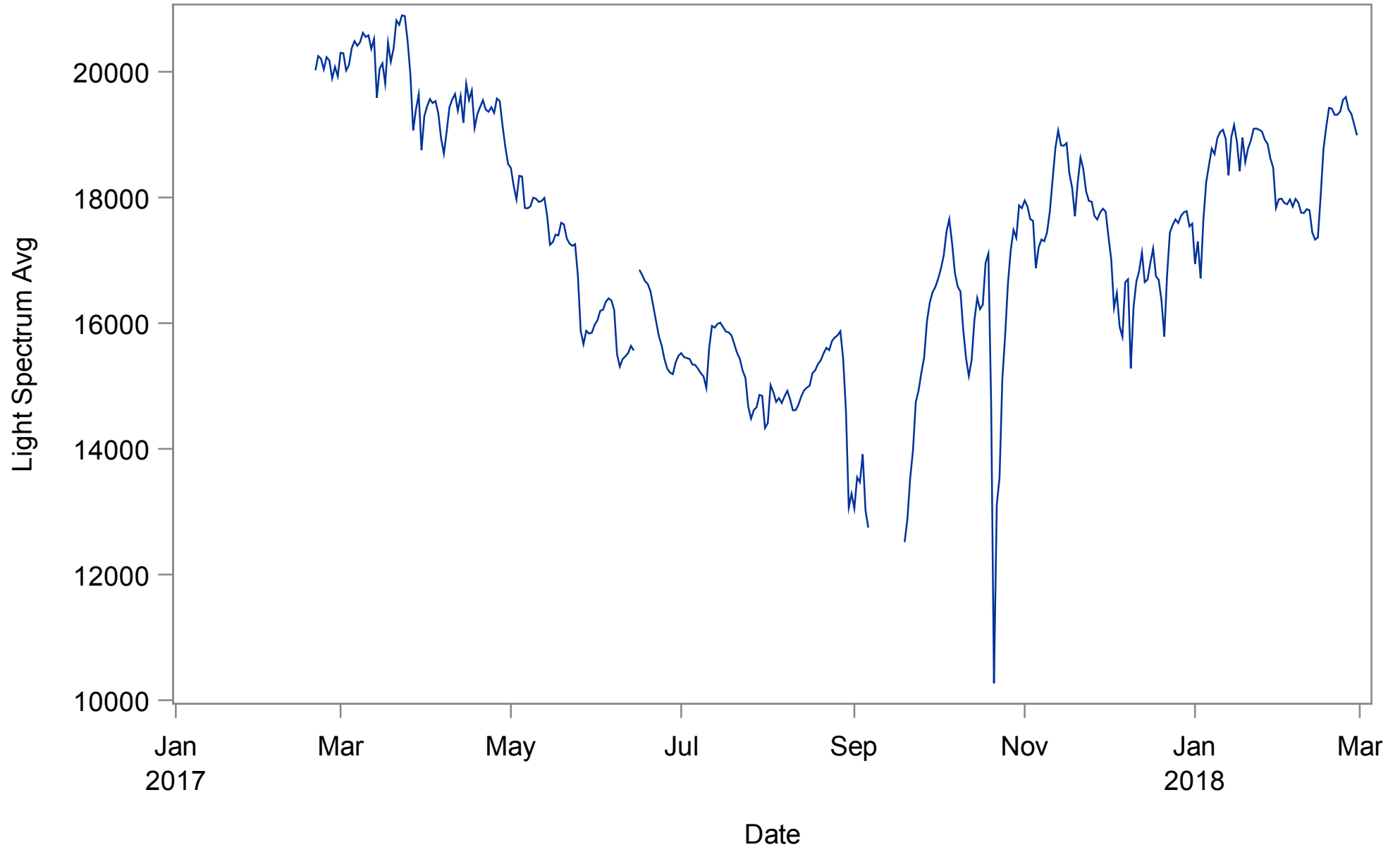
Fluorescent Dissolved Organic Matter



Chassahowitzka River

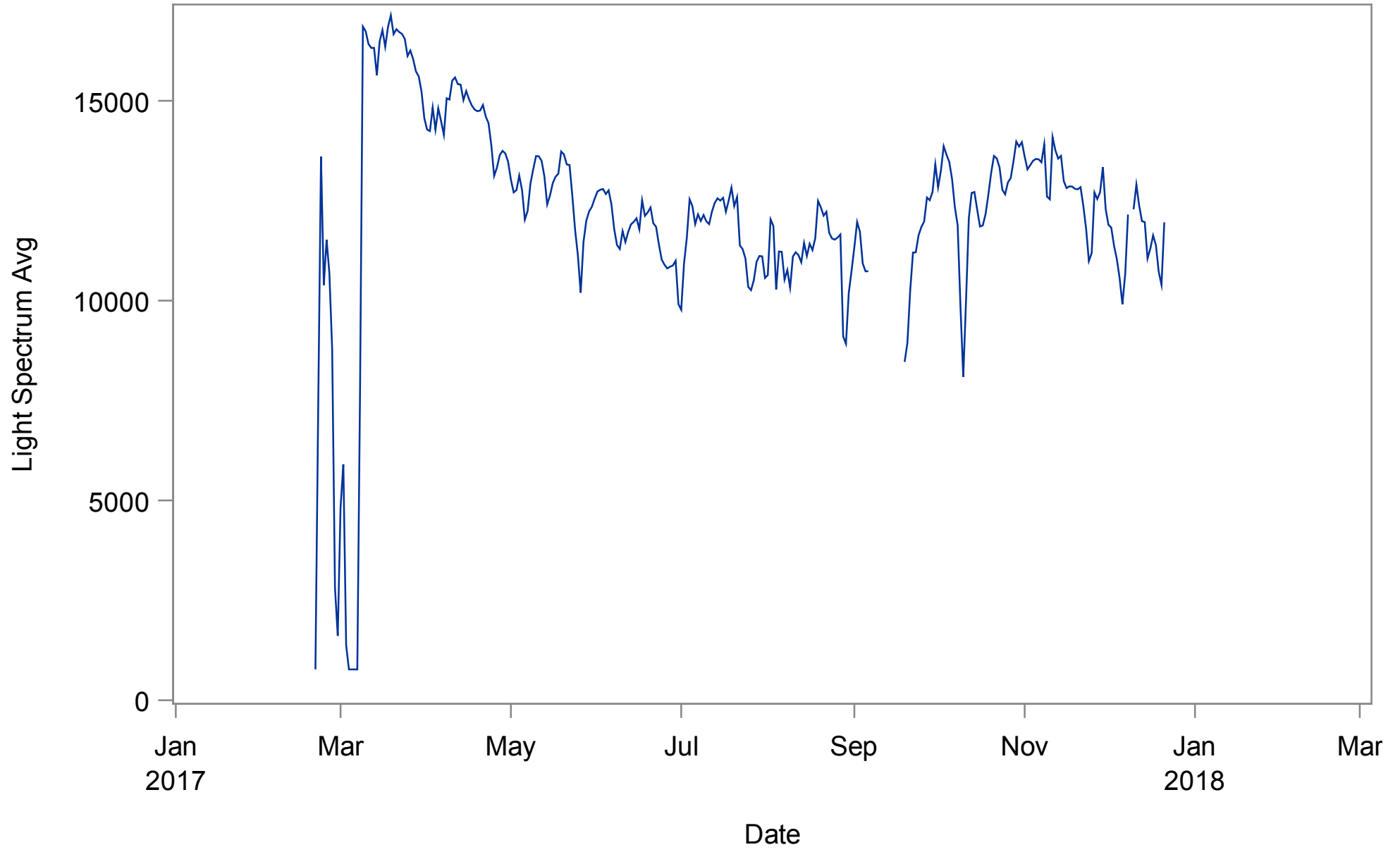
Chass Near Mouth

Light Spectrum Avg



Chassahowitzka River

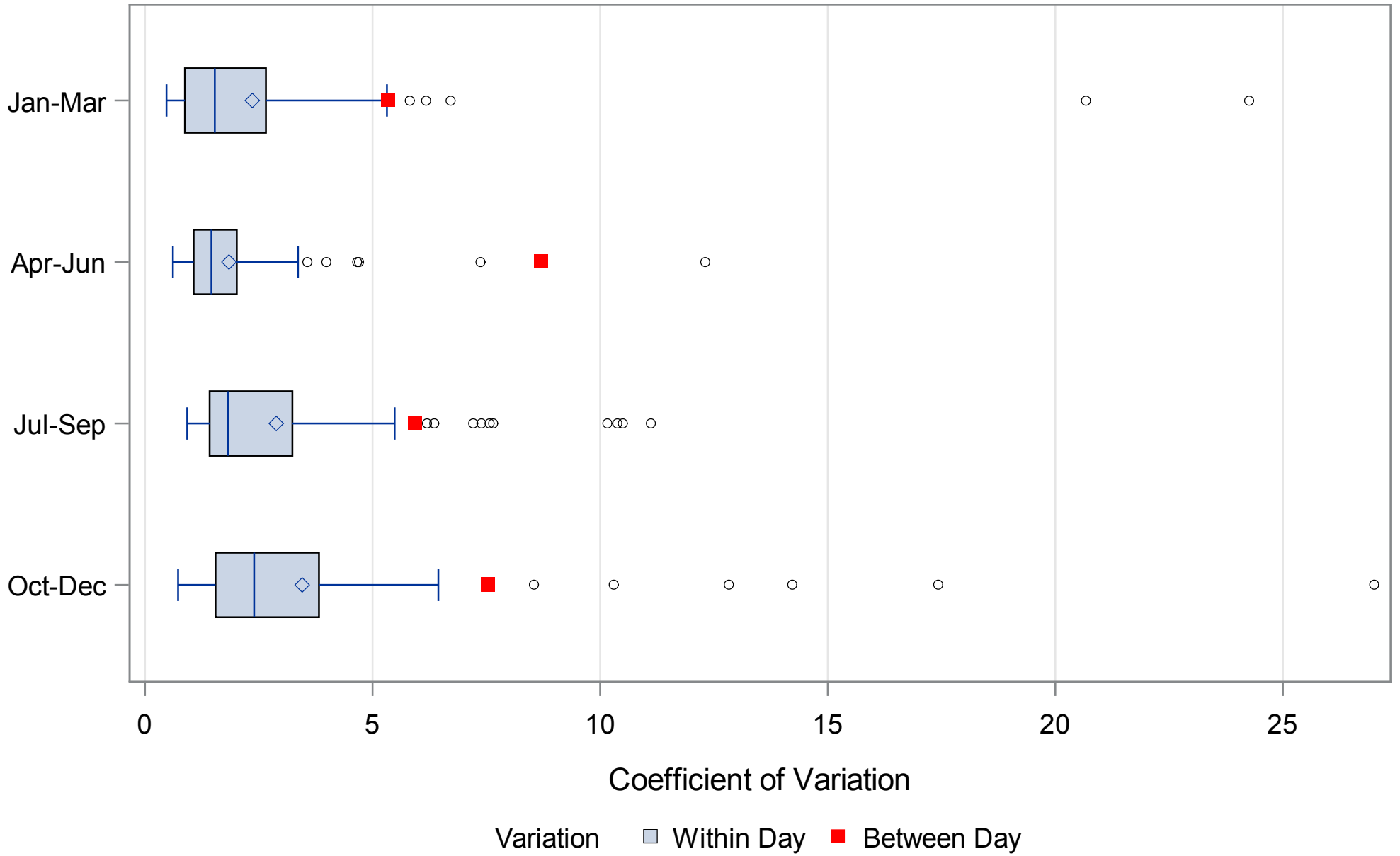
Chass Near USGS Gage
Light Spectrum Avg



Chassahowitzka River

Chass Near Mouth

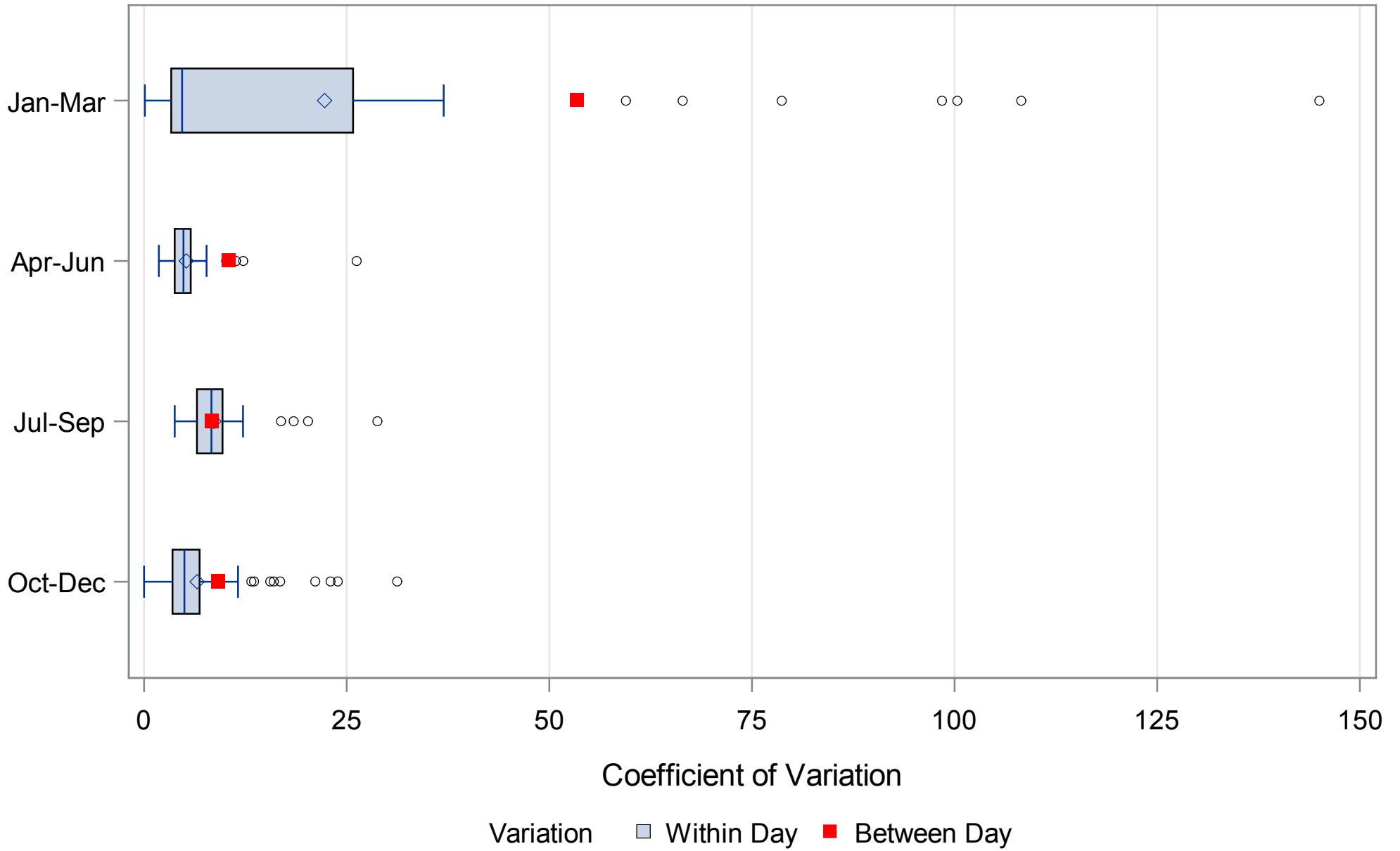
Light Spectrum Avg



Chassahowitzka River

Chass Near USGS Gage

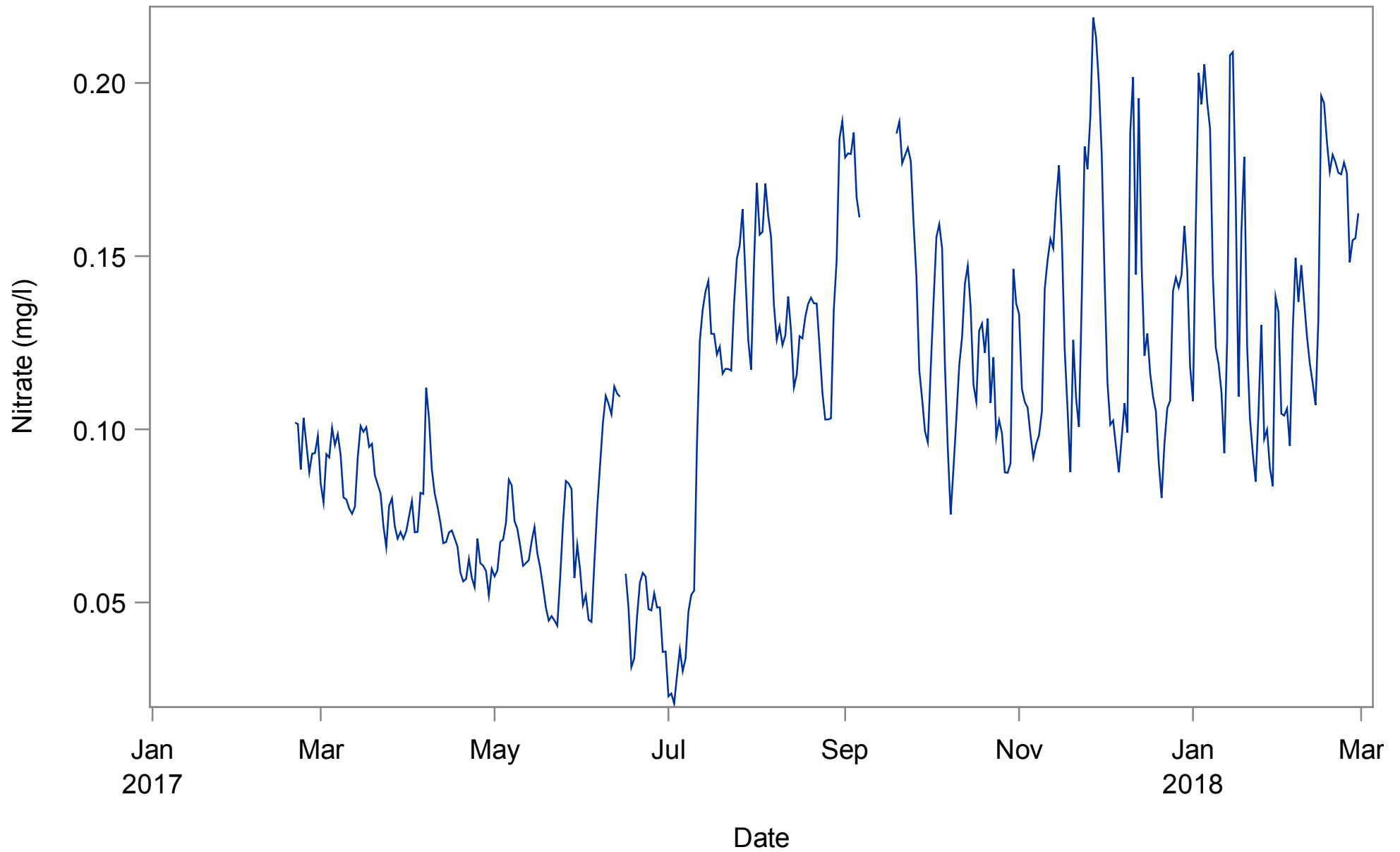
Light Spectrum Avg



Chassahowitzka River

Chass Near Mouth

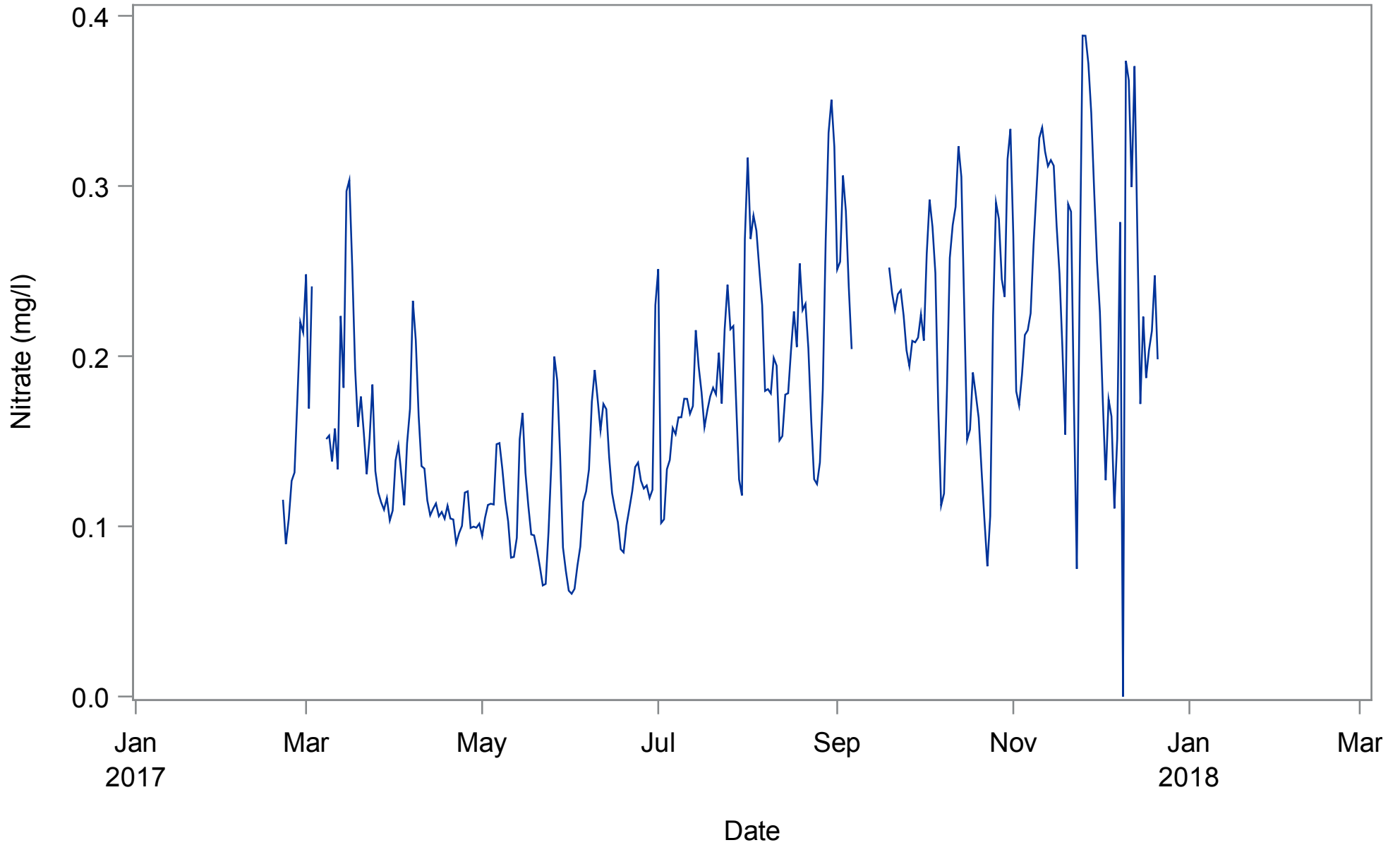
Nitrate (mg/l)



Chassahowitzka River

Chass Near USGS Gage

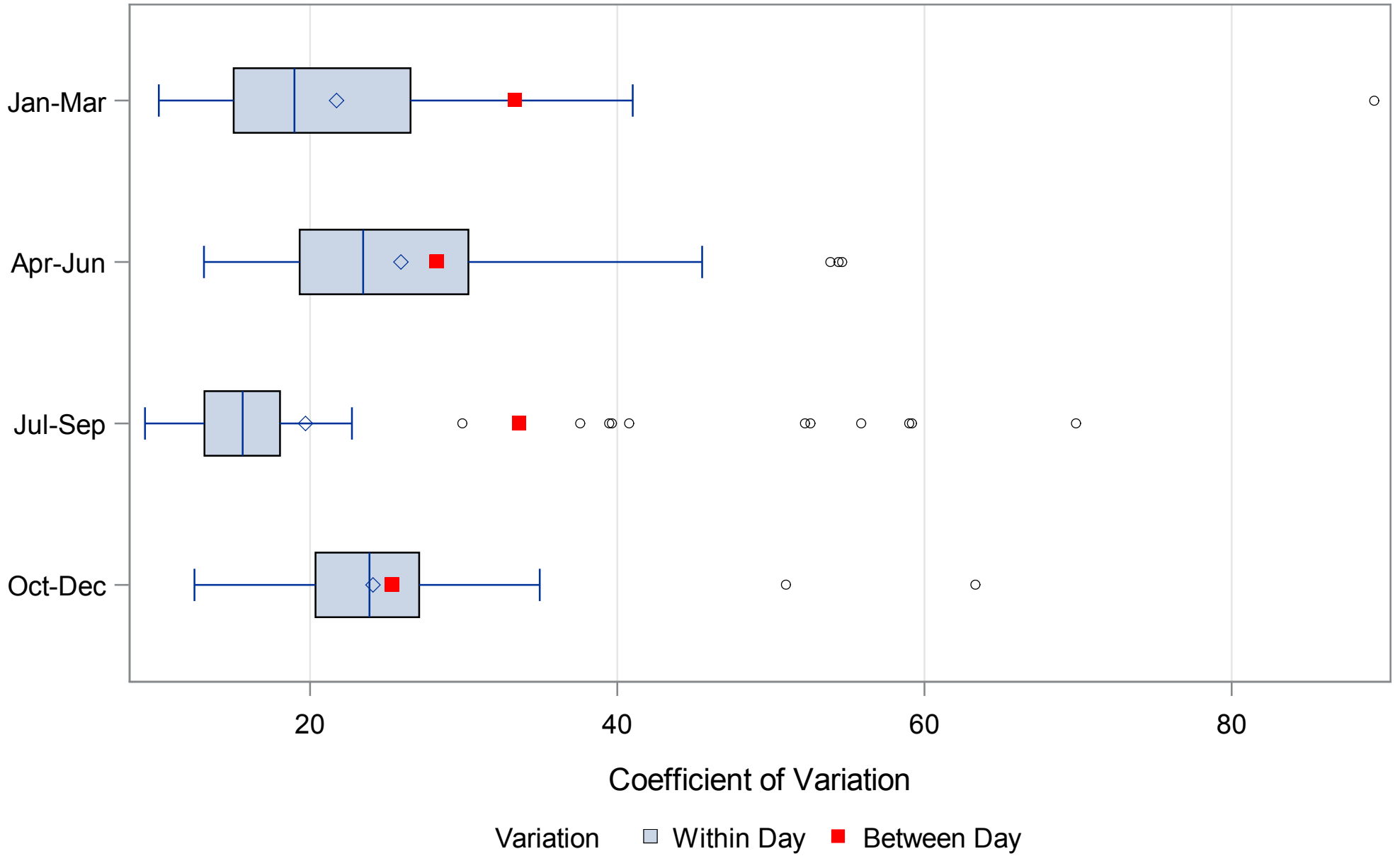
Nitrate (mg/l)



Chassahowitzka River

Chass Near Mouth

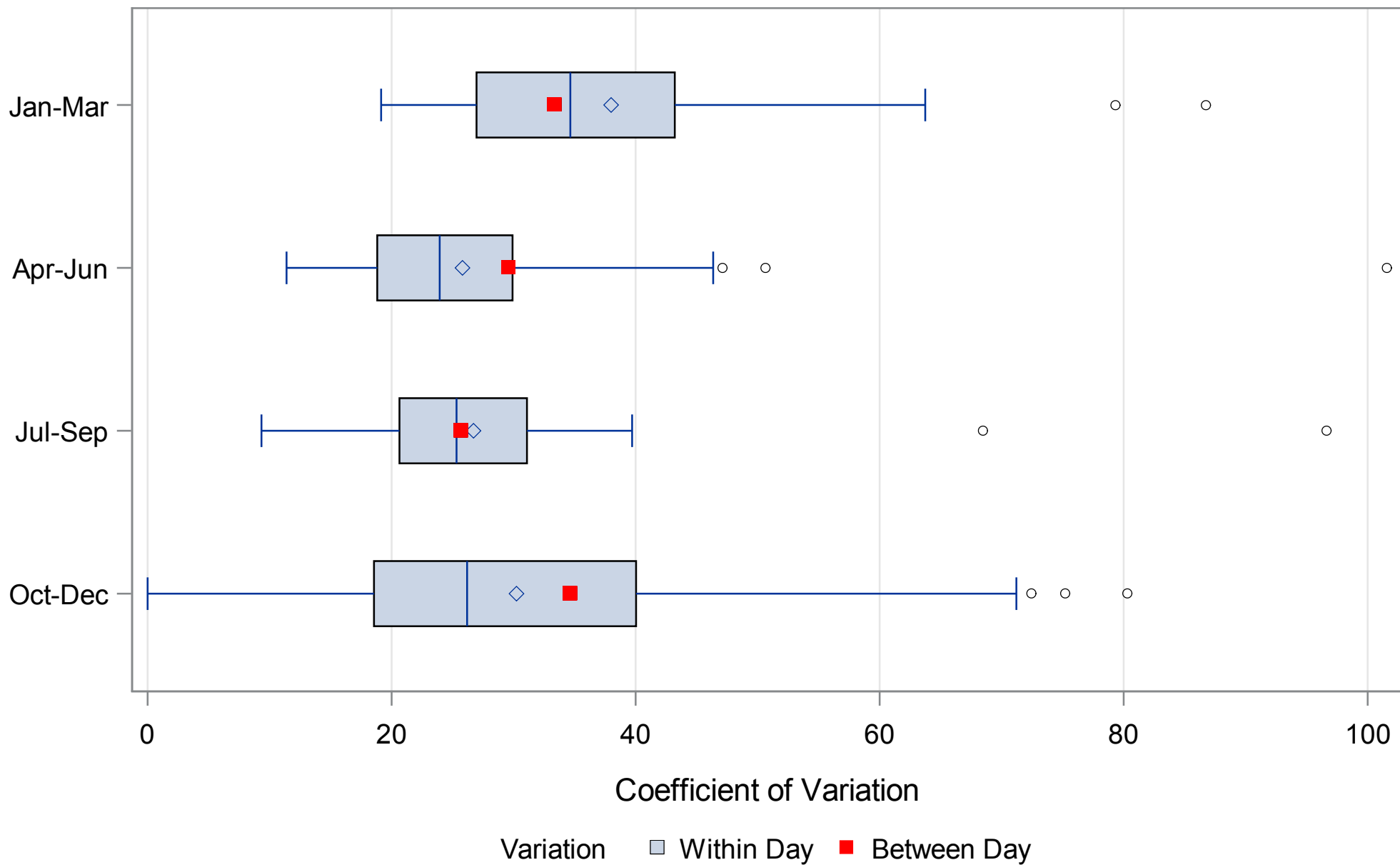
Nitrate (mg/l)



Chassahowitzka River

Chass Near USGS Gage

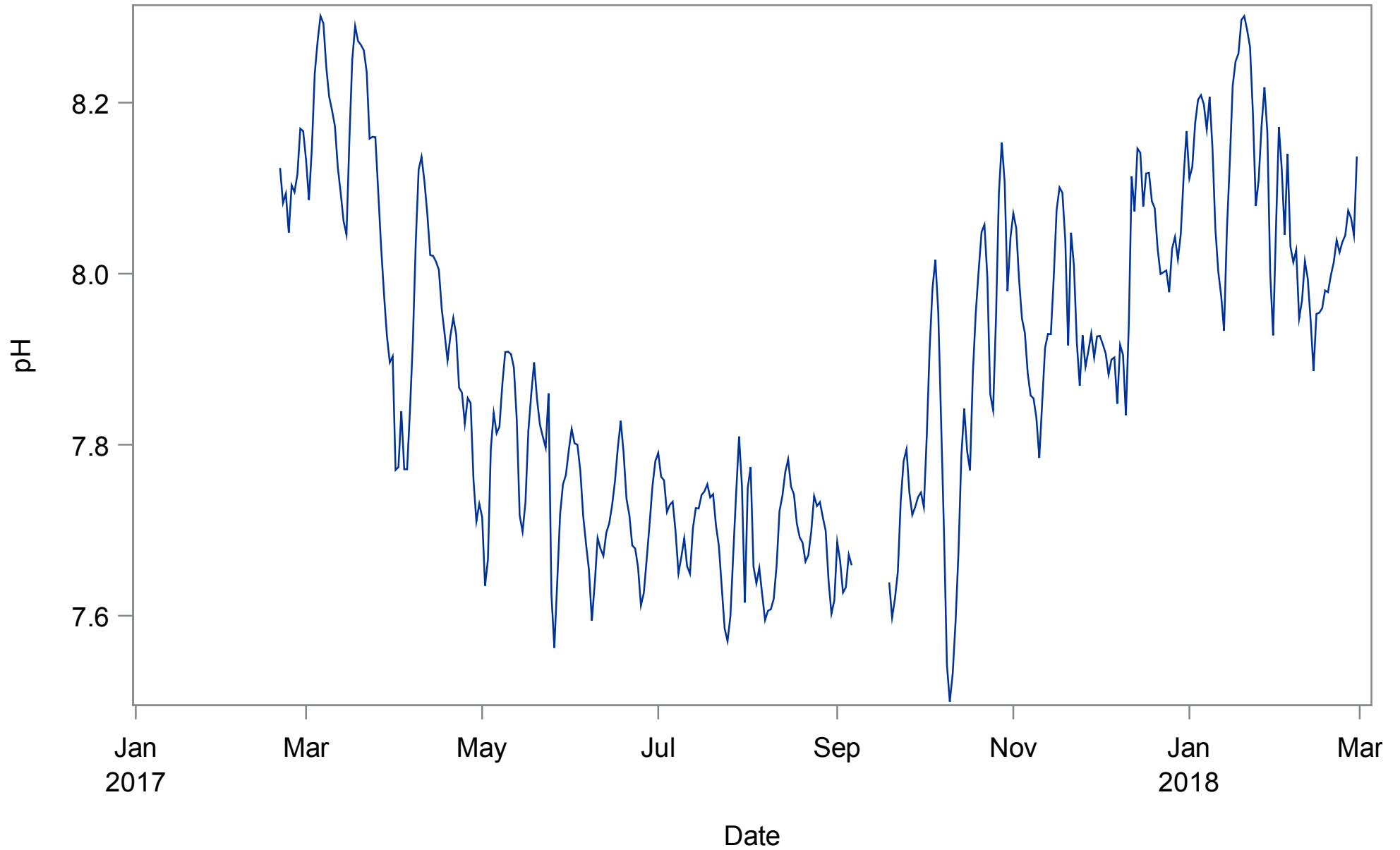
Nitrate (mg/l)



Chassahowitzka River

Chass Near Mouth

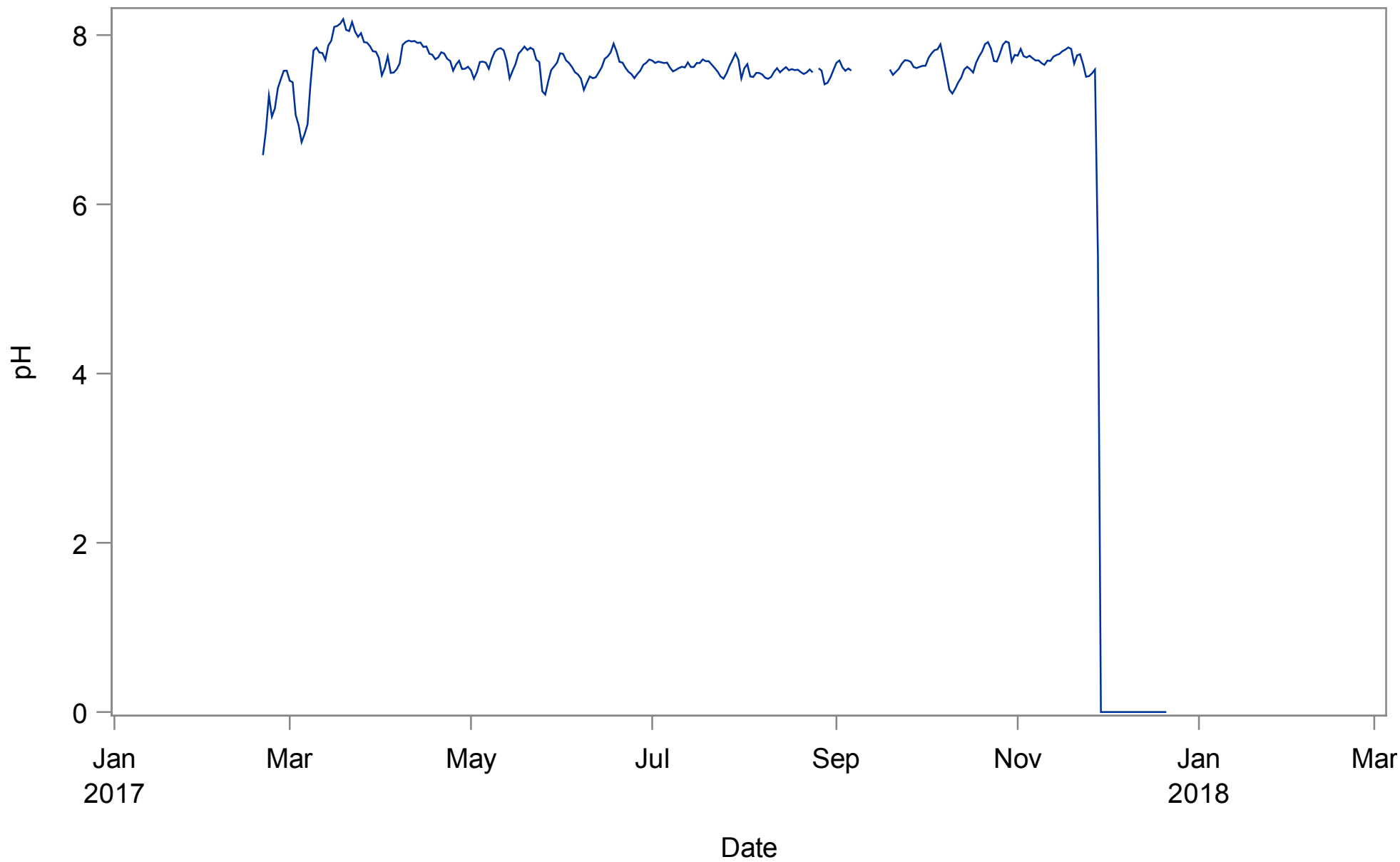
pH



Chassahowitzka River

Chass Near USGS Gage

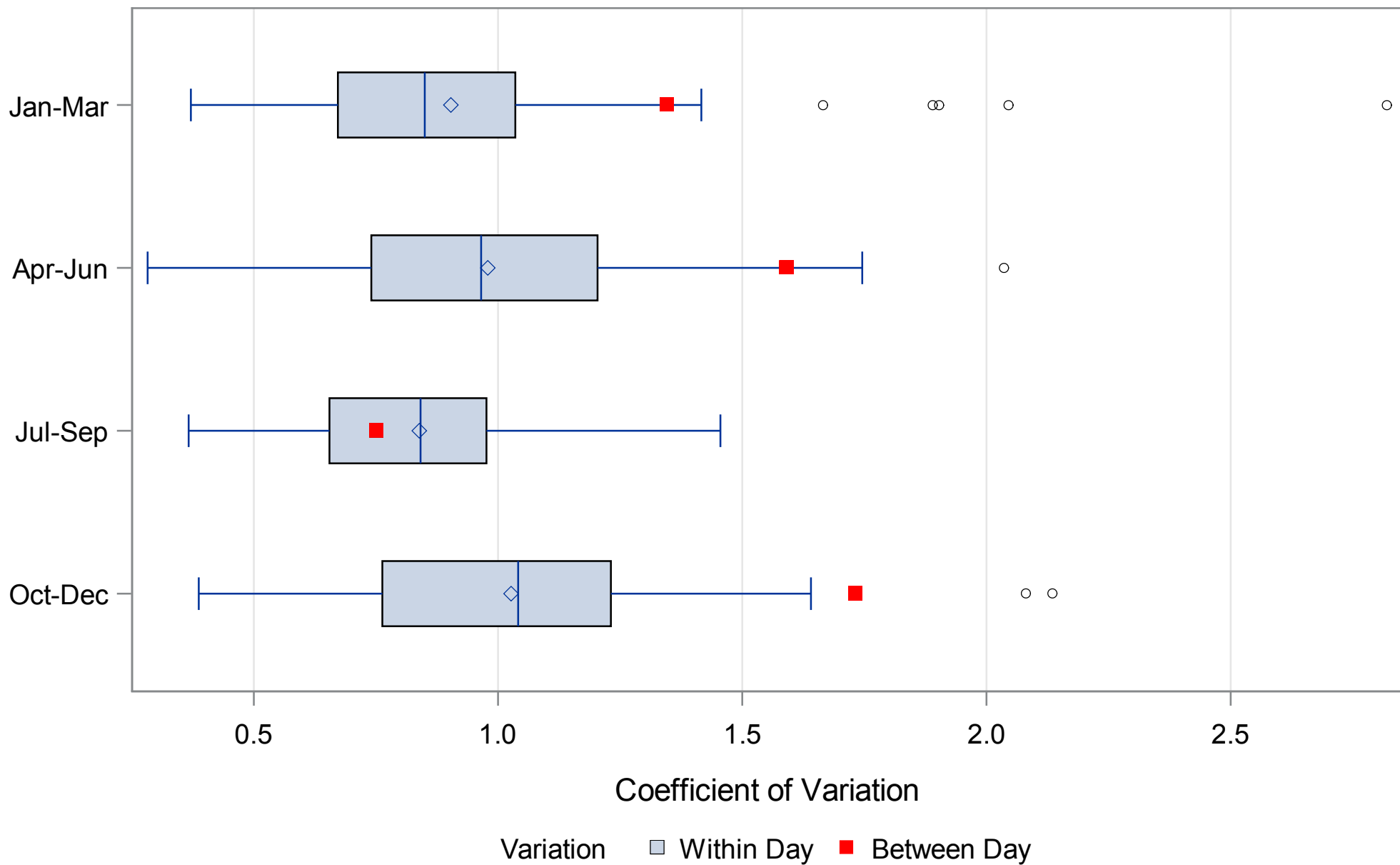
pH



Chassahowitzka River

Chass Near Mouth

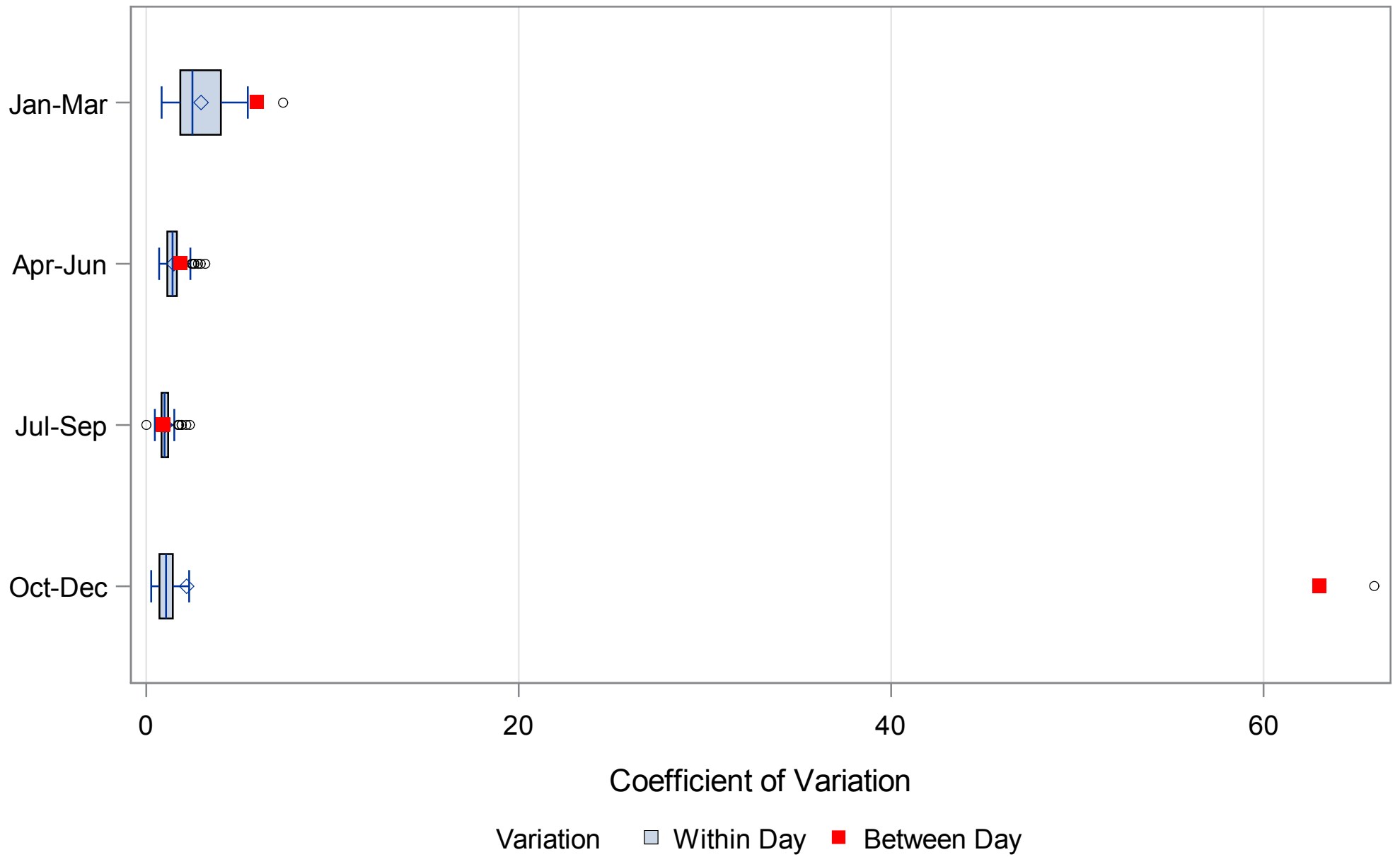
pH



Chassahowitzka River

Chass Near USGS Gage

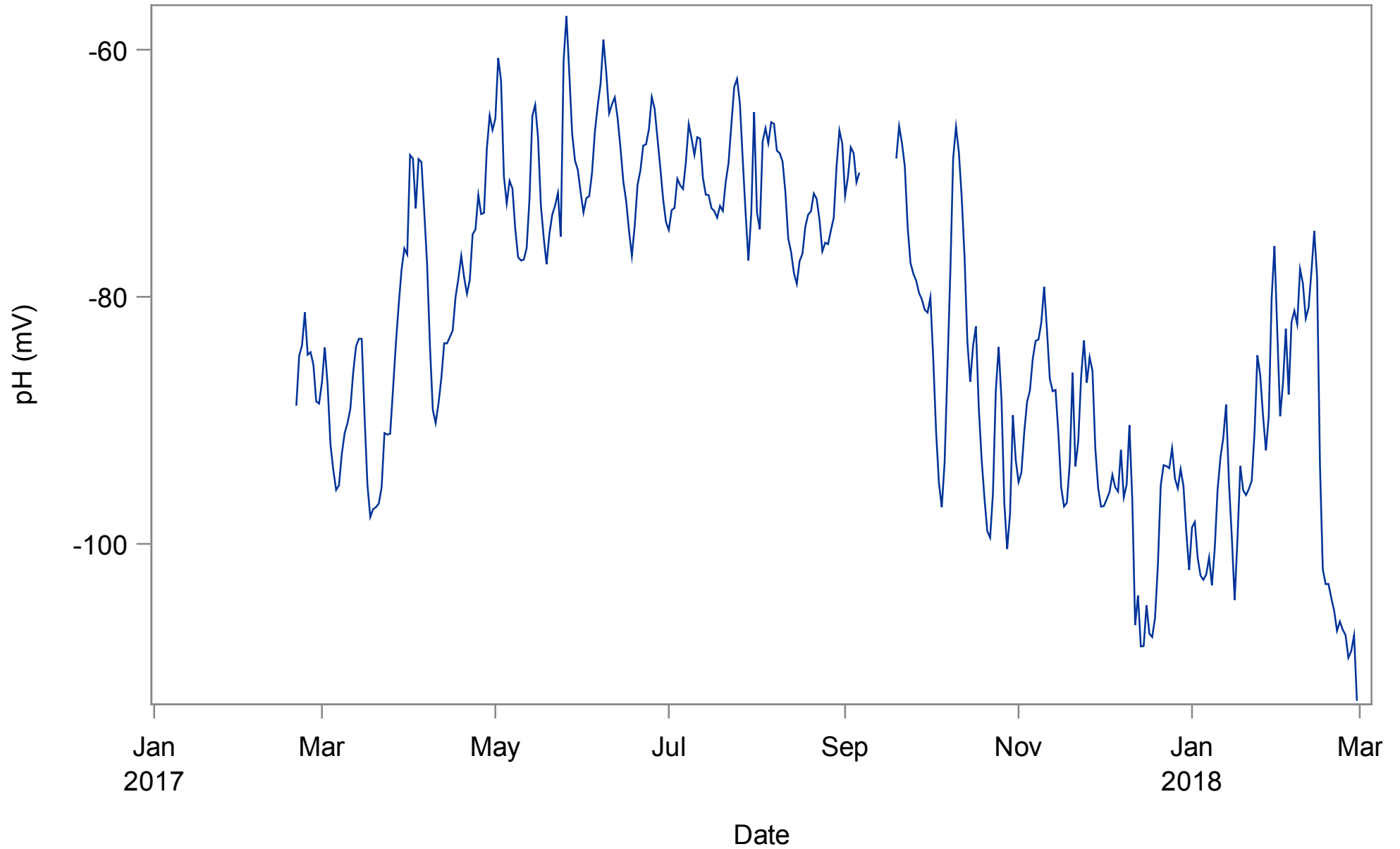
pH



Chassahowitzka River

Chass Near Mouth

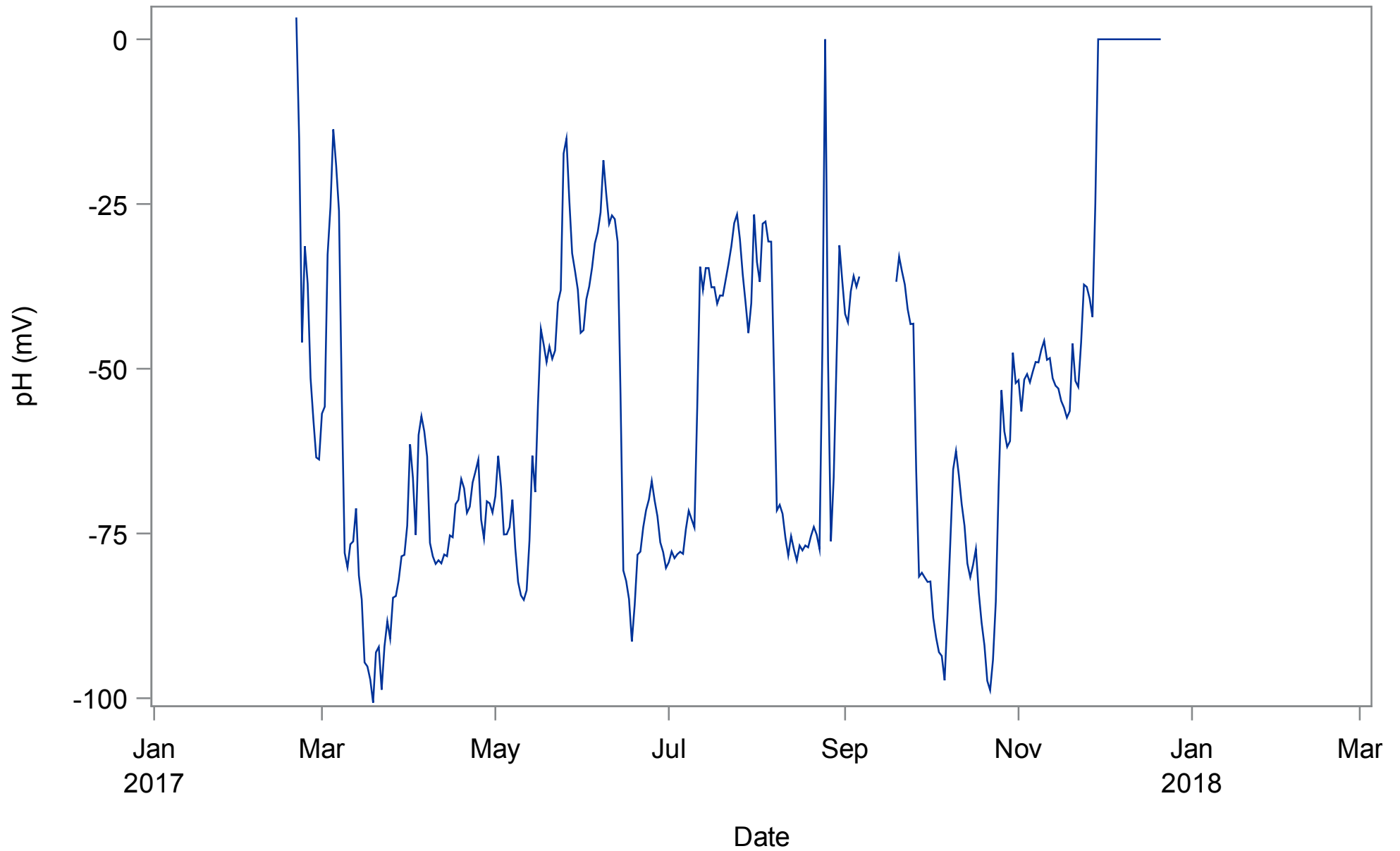
pH (mV)



Chassahowitzka River

Chass Near USGS Gage

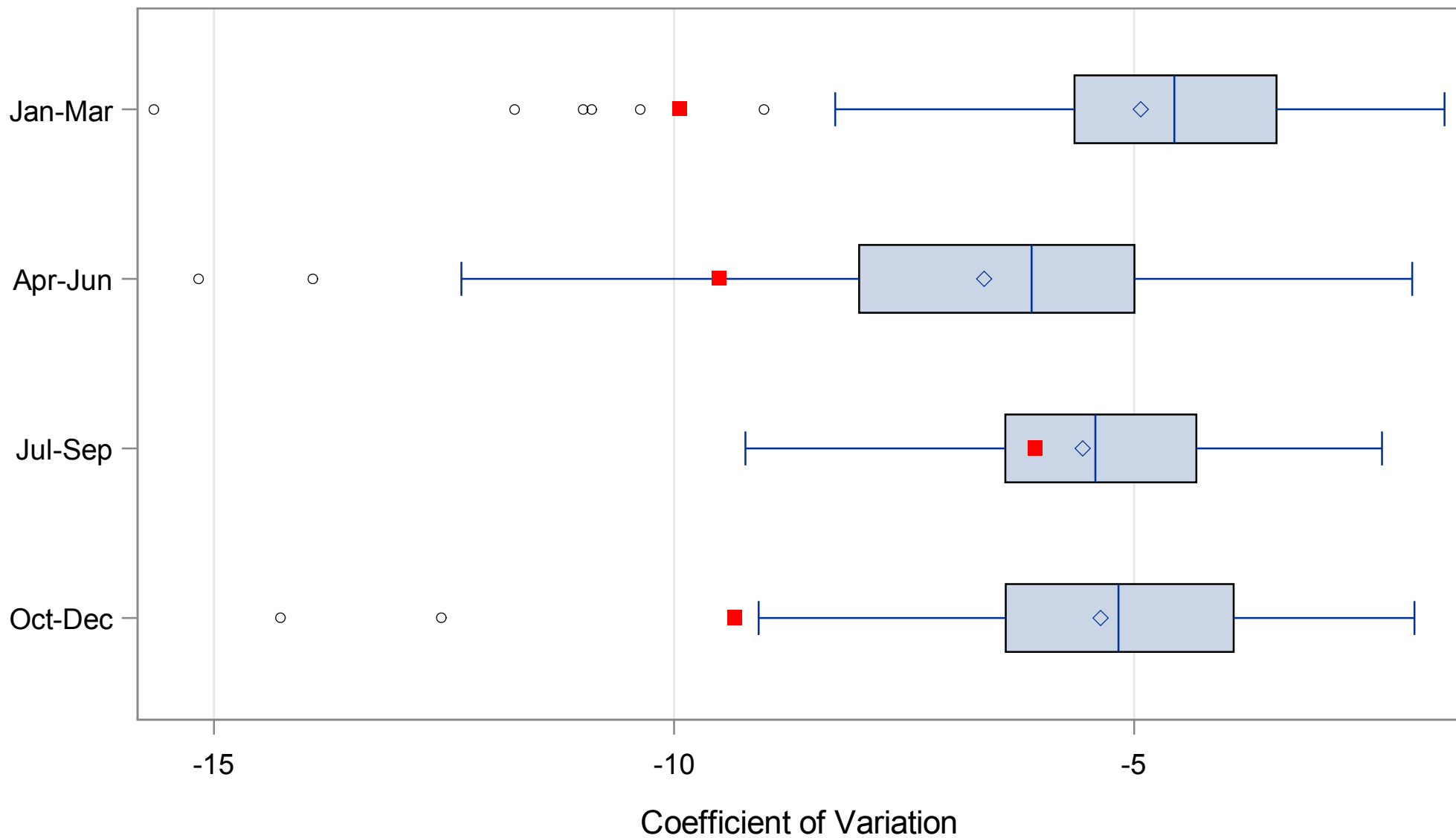
pH (mV)



Chassahowitzka River

Chass Near Mouth

pH (mV)

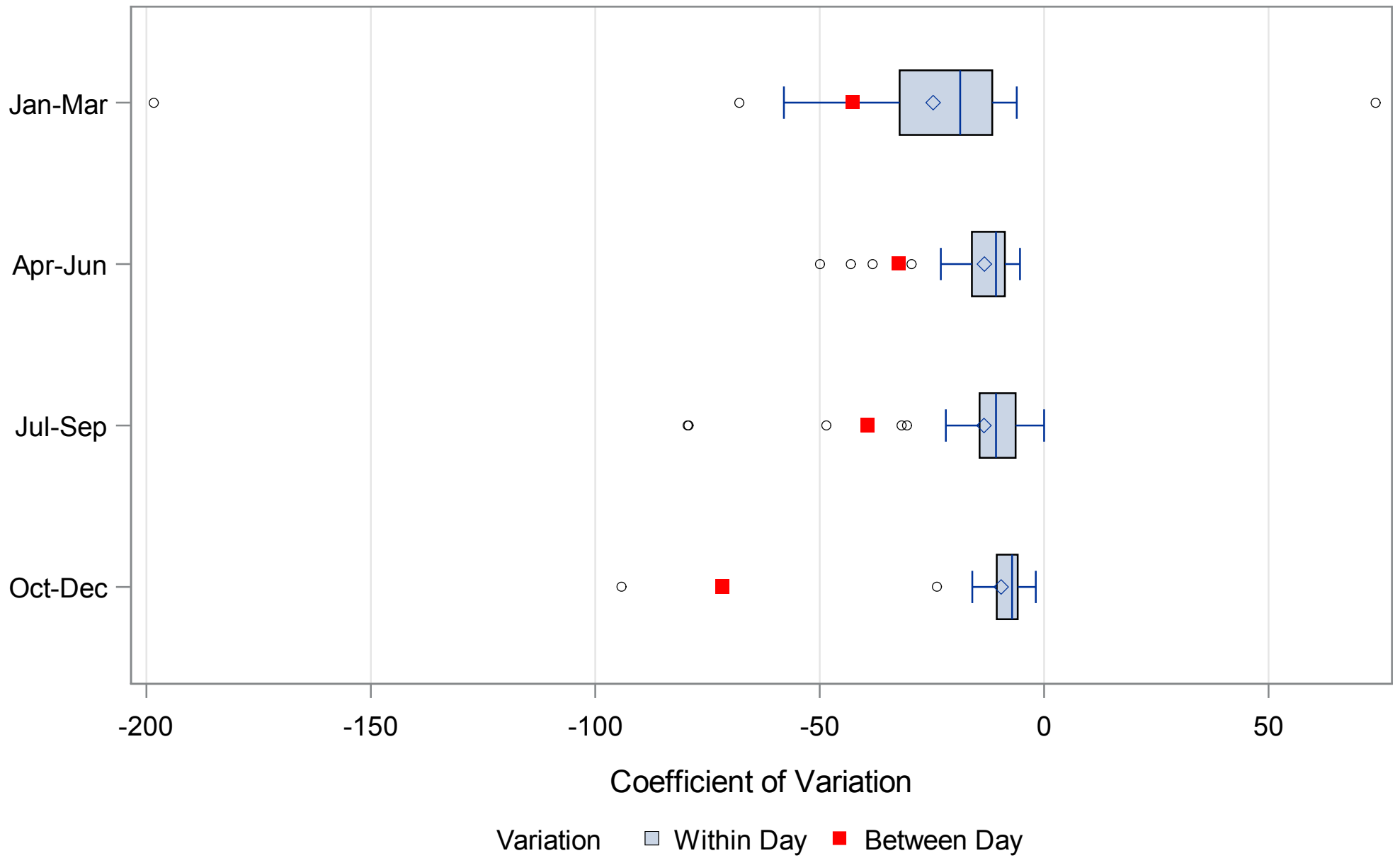


Variation Within Day Between Day

Chassahowitzka River

Chass Near USGS Gage

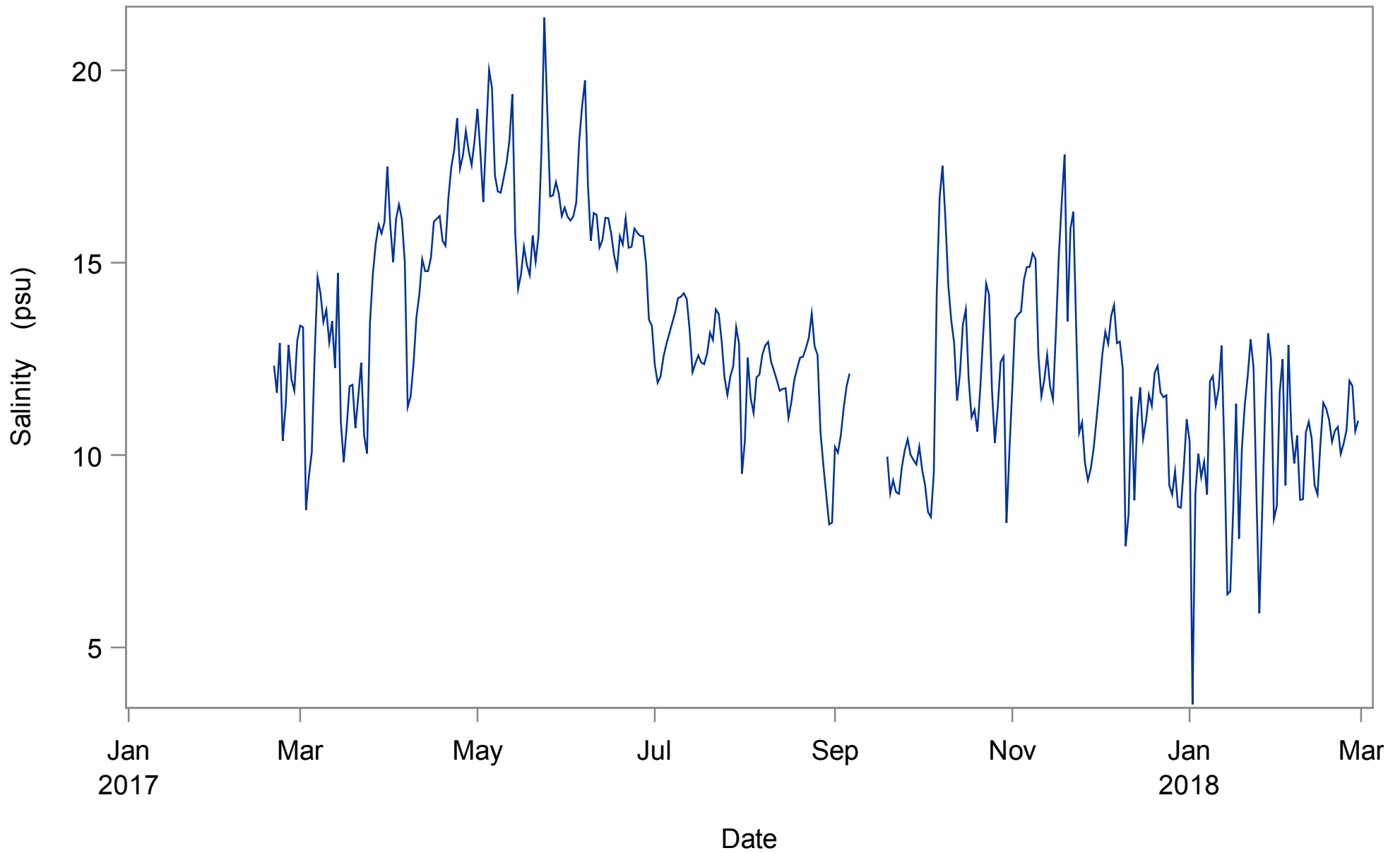
pH (mV)



Chassahowitzka River

Chass Near Mouth

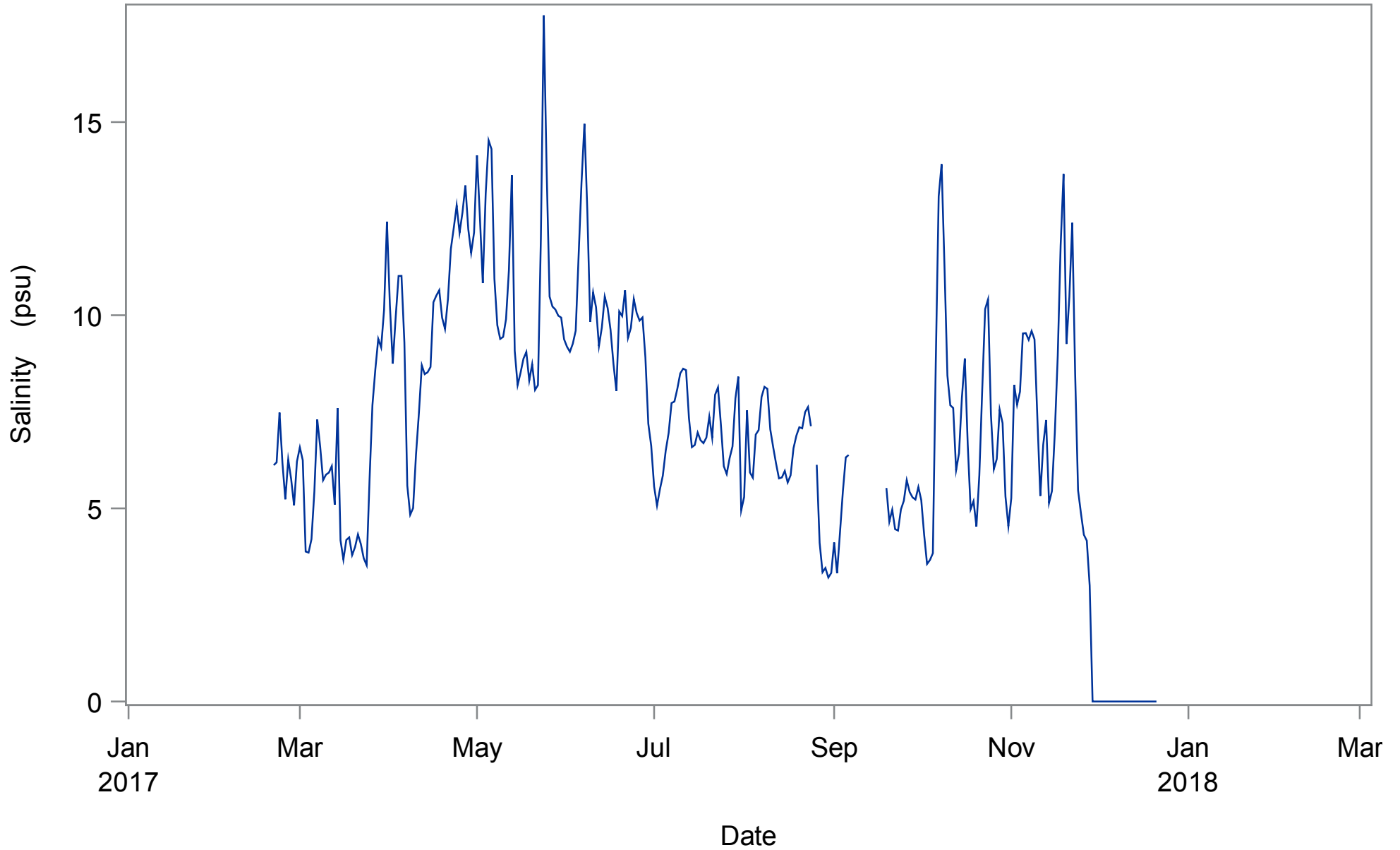
Salinity (psu)



Chassahowitzka River

Chass Near USGS Gage

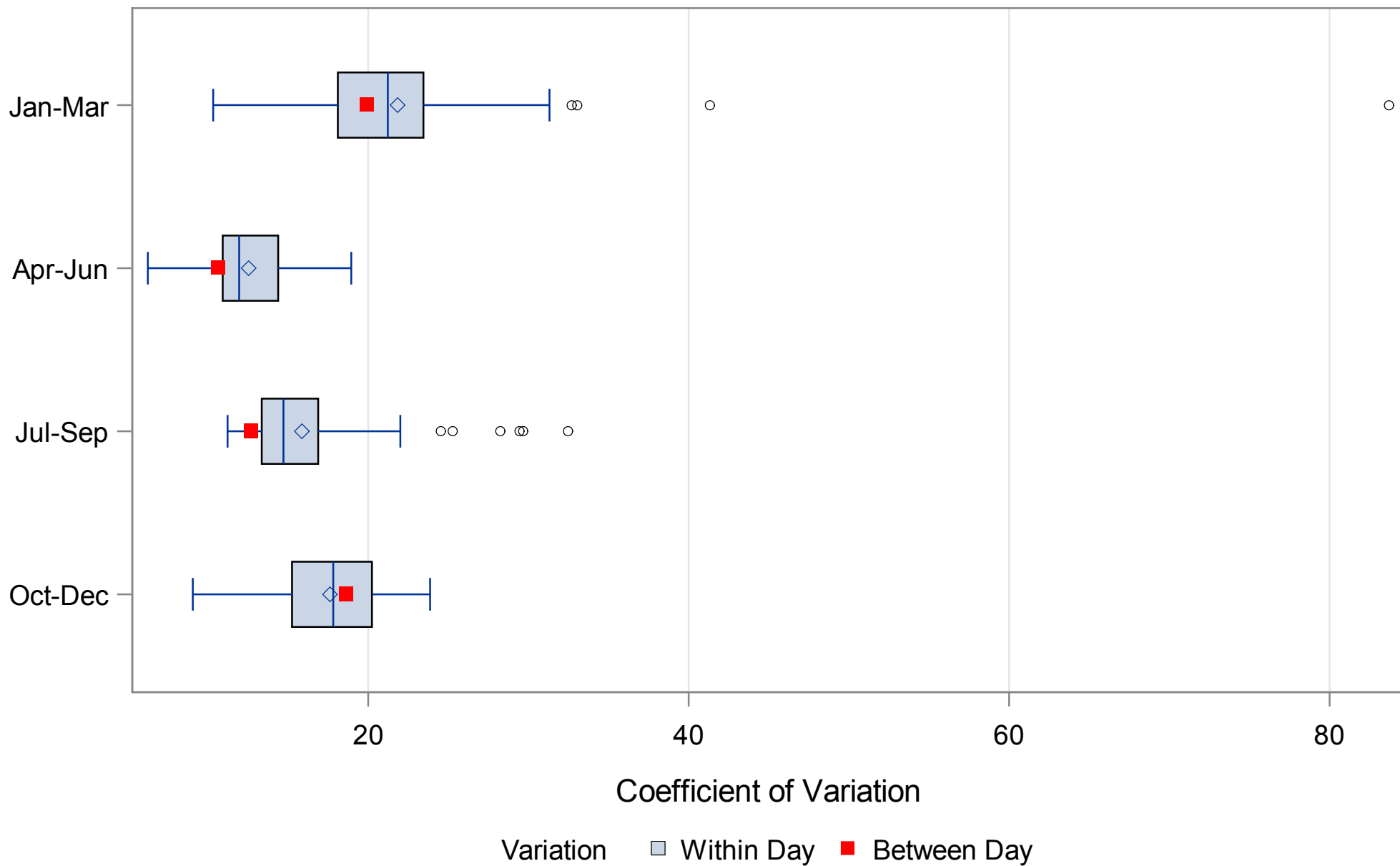
Salinity (psu)



Chassahowitzka River

Chass Near Mouth

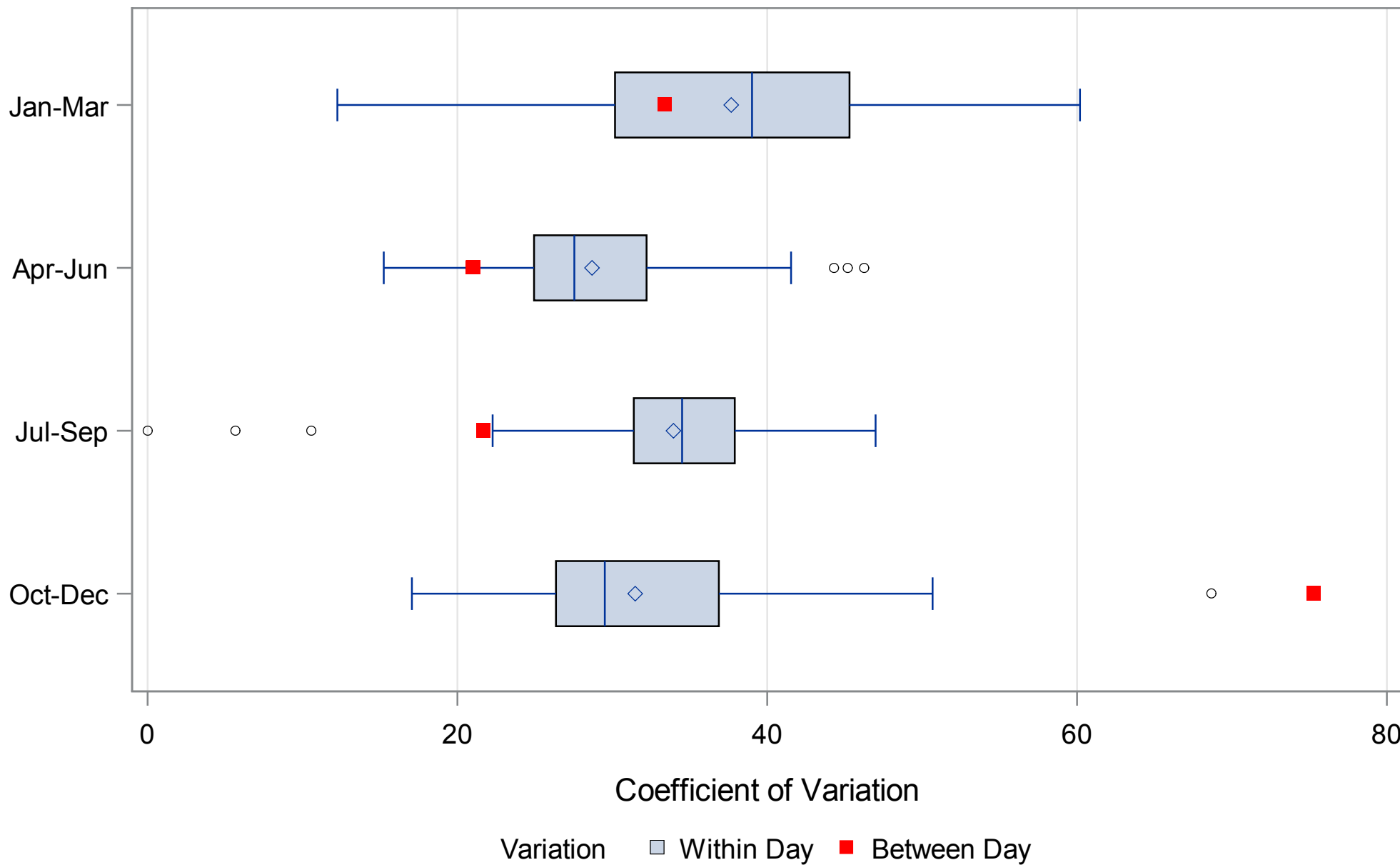
Salinity (psu)



Chassahowitzka River

Chass Near USGS Gage

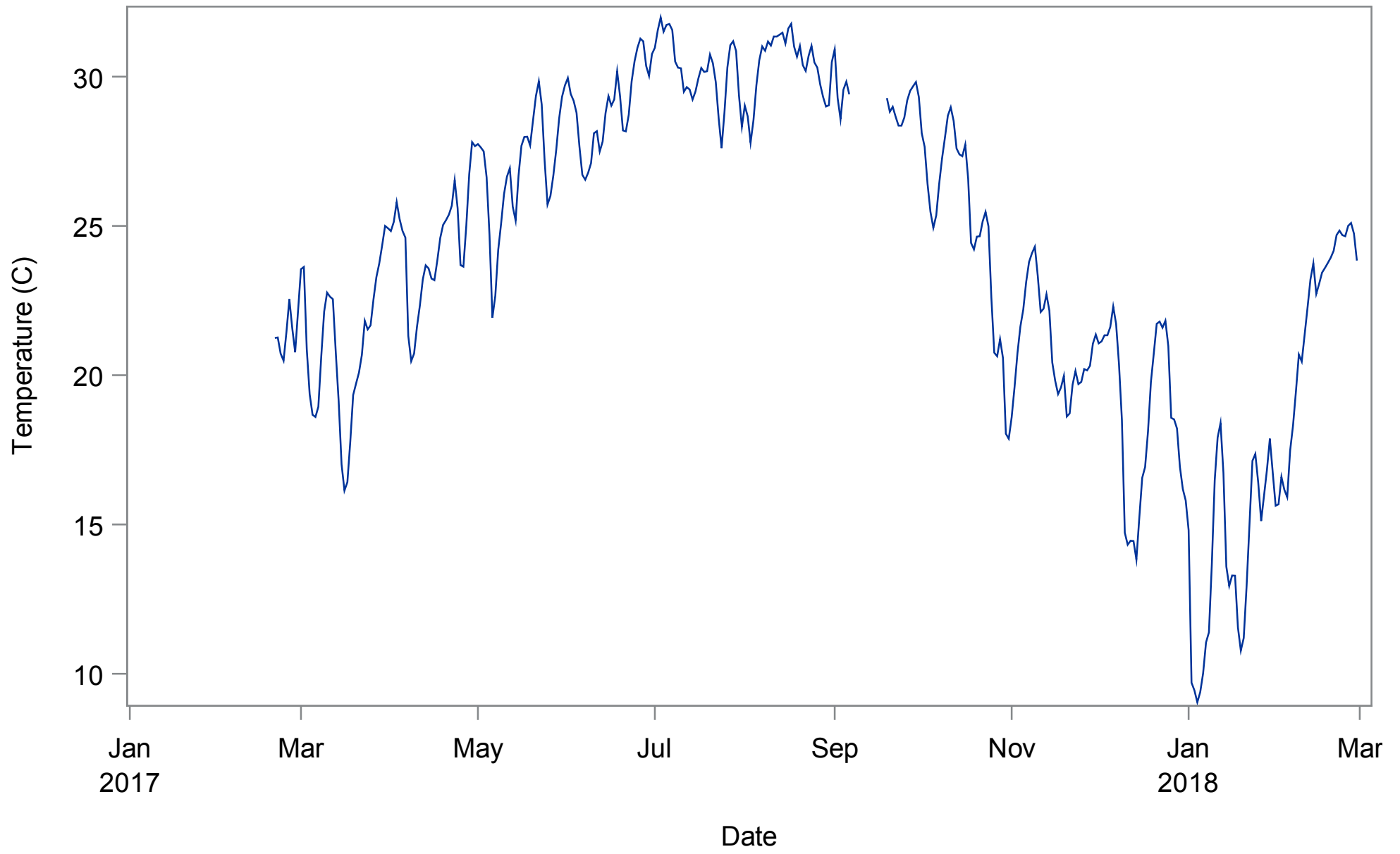
Salinity (psu)



Chassahowitzka River

Chass Near Mouth

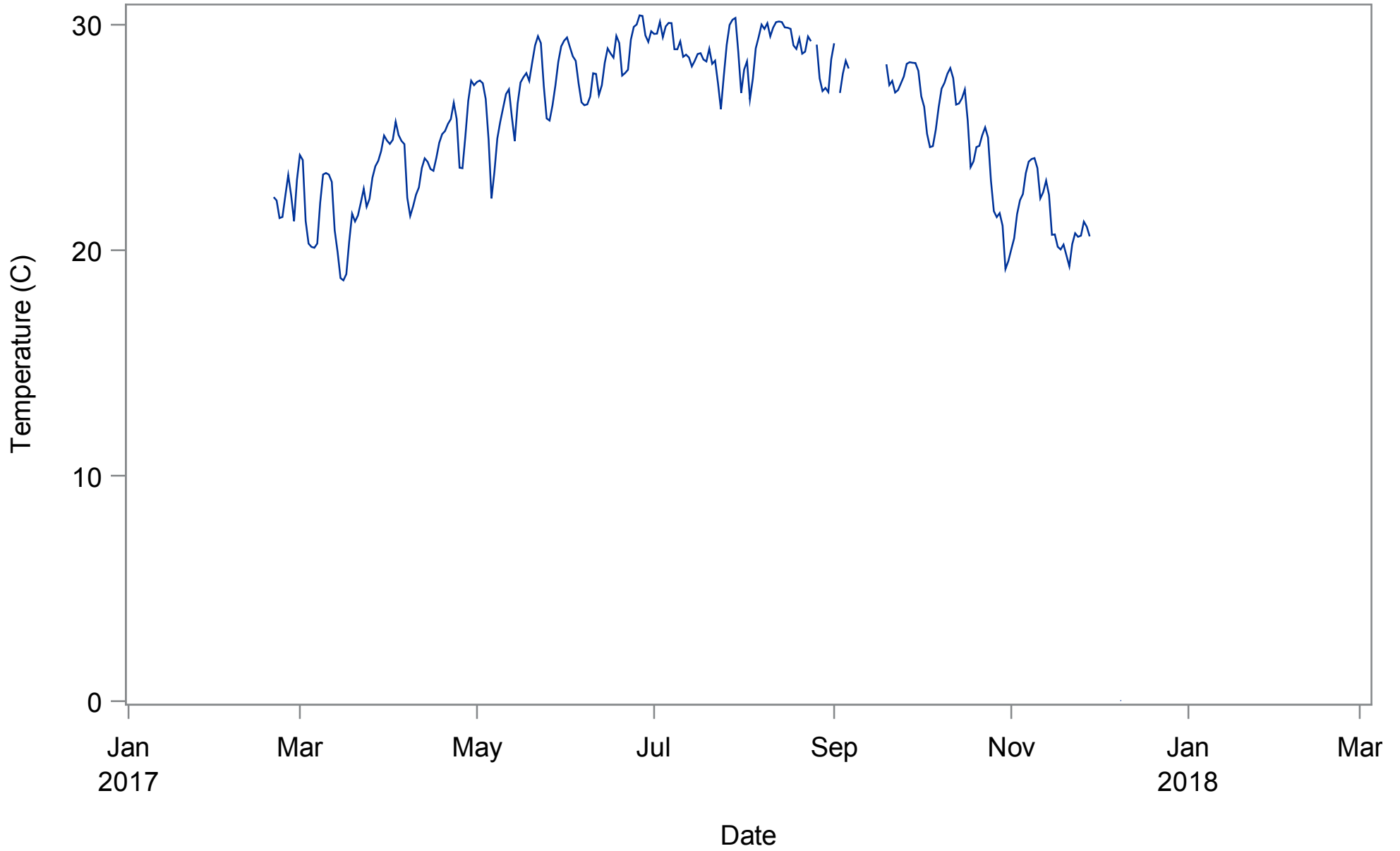
Temperature (C)



Chassahowitzka River

Chass Near USGS Gage

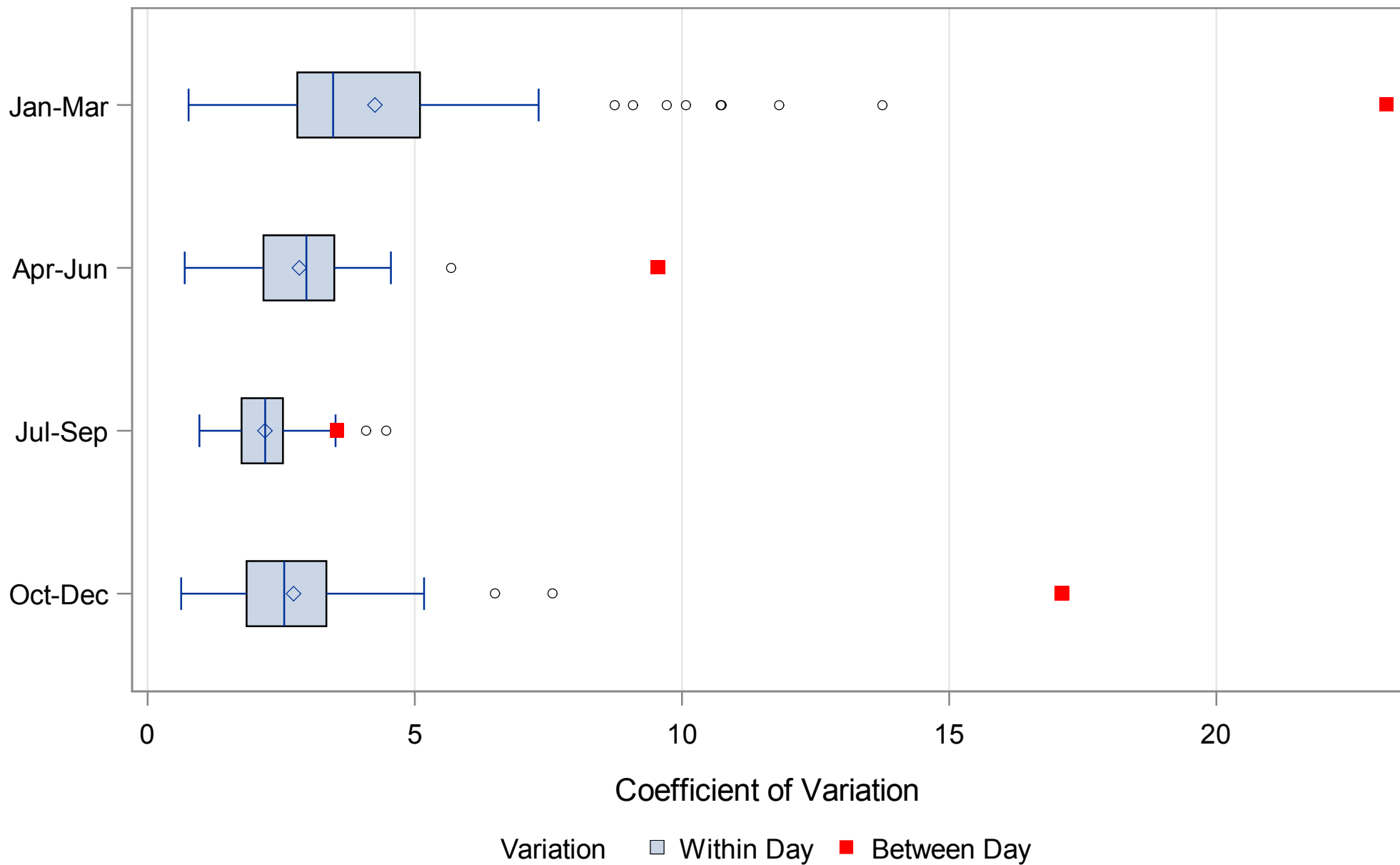
Temperature (C)



Chassahowitzka River

Chass Near Mouth

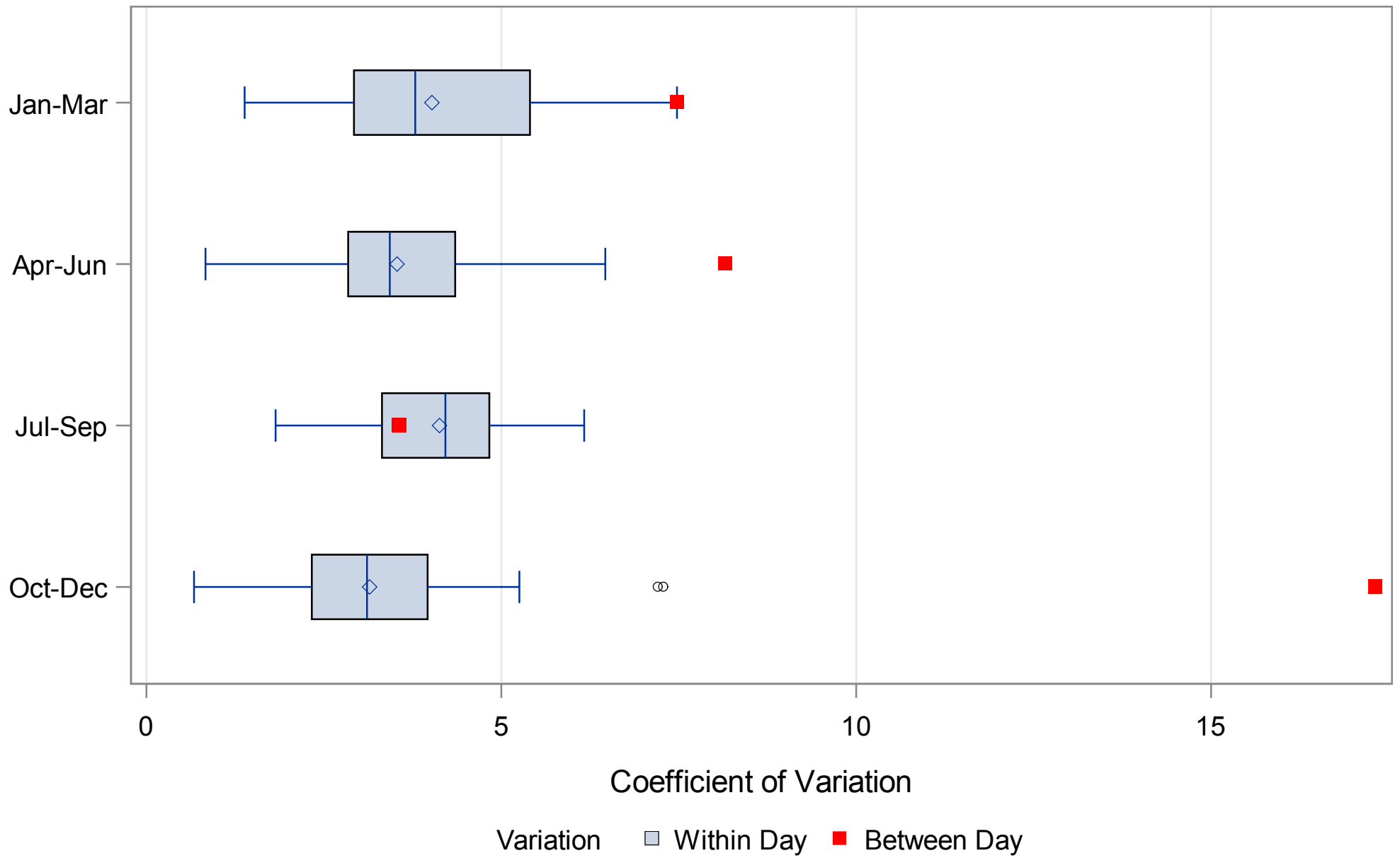
Temperature (C)



Chassahowitzka River

Chass Near USGS Gage

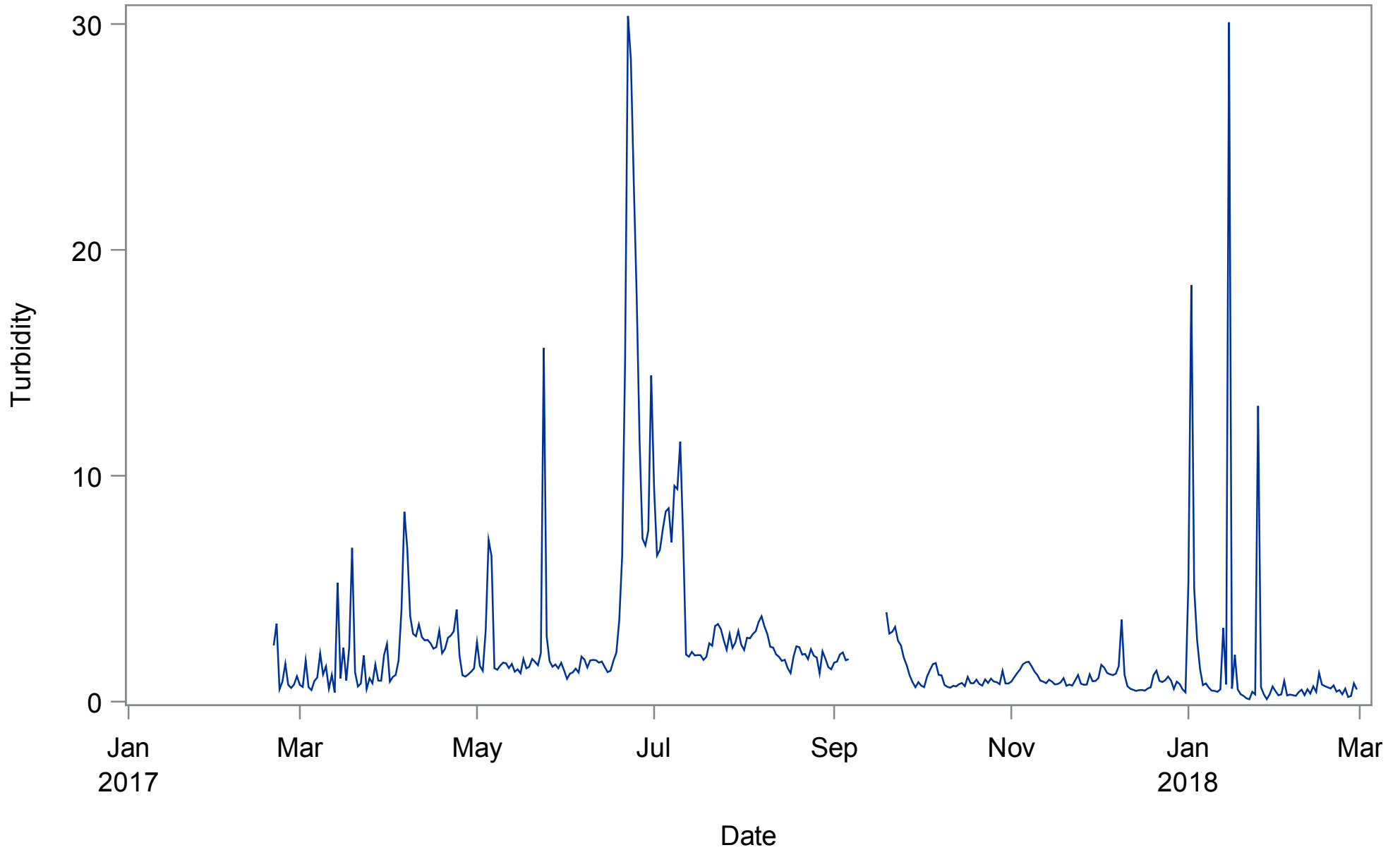
Temperature (C)



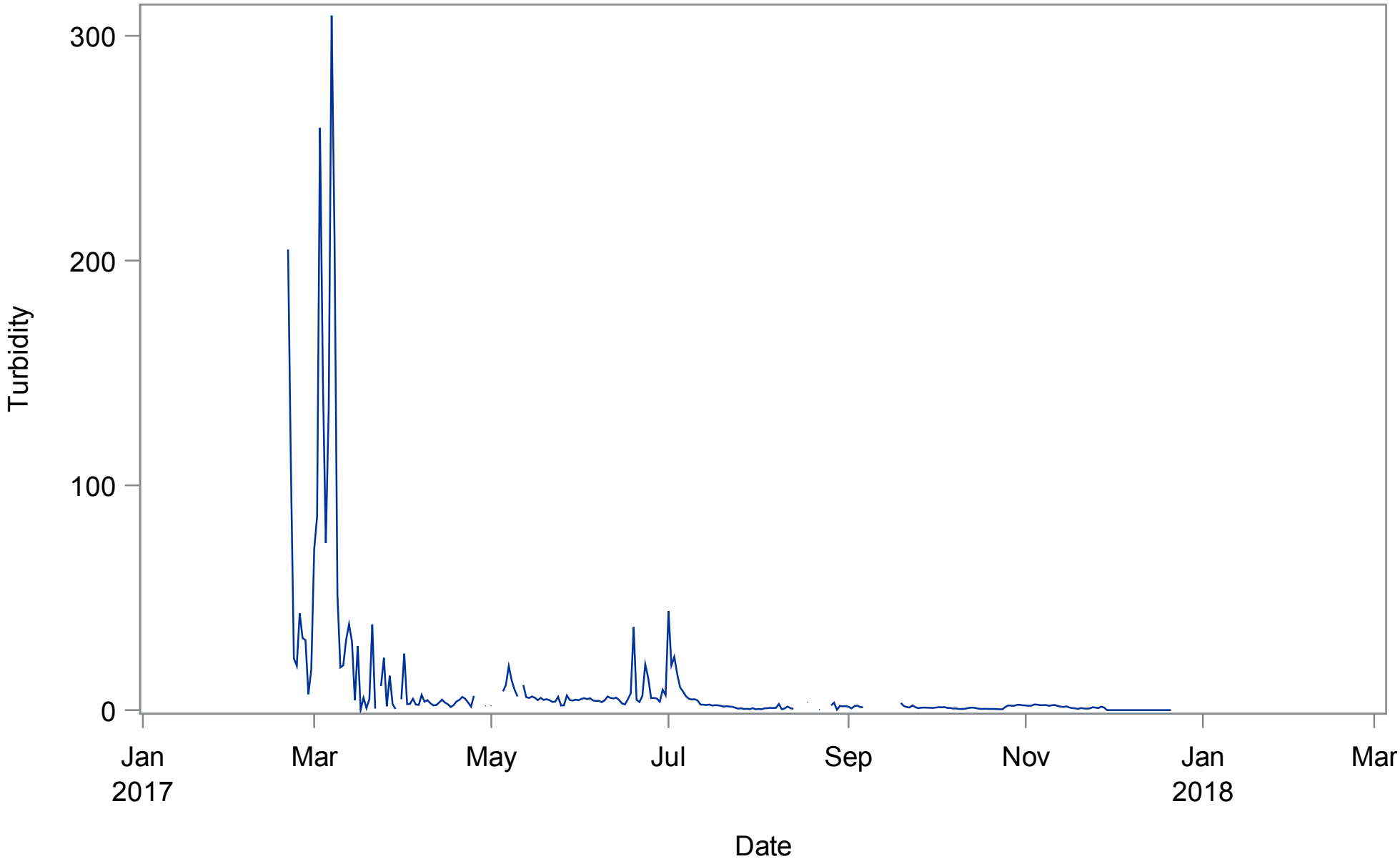
Chassahowitzka River

Chass Near Mouth

Turbidity



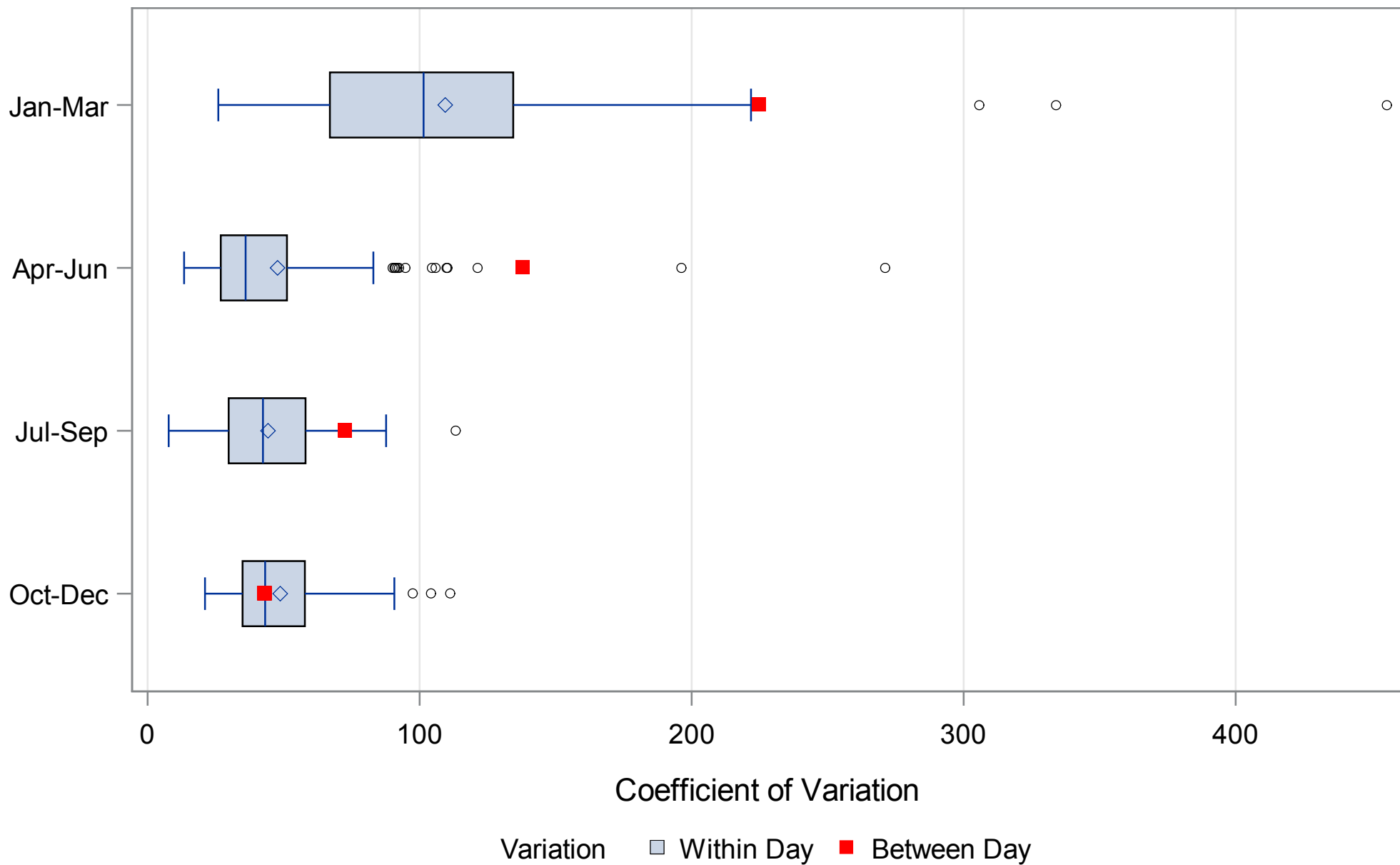
Chassahowitzka River
Chass Near USGS Gage
Turbidity



Chassahowitzka River

Chass Near Mouth

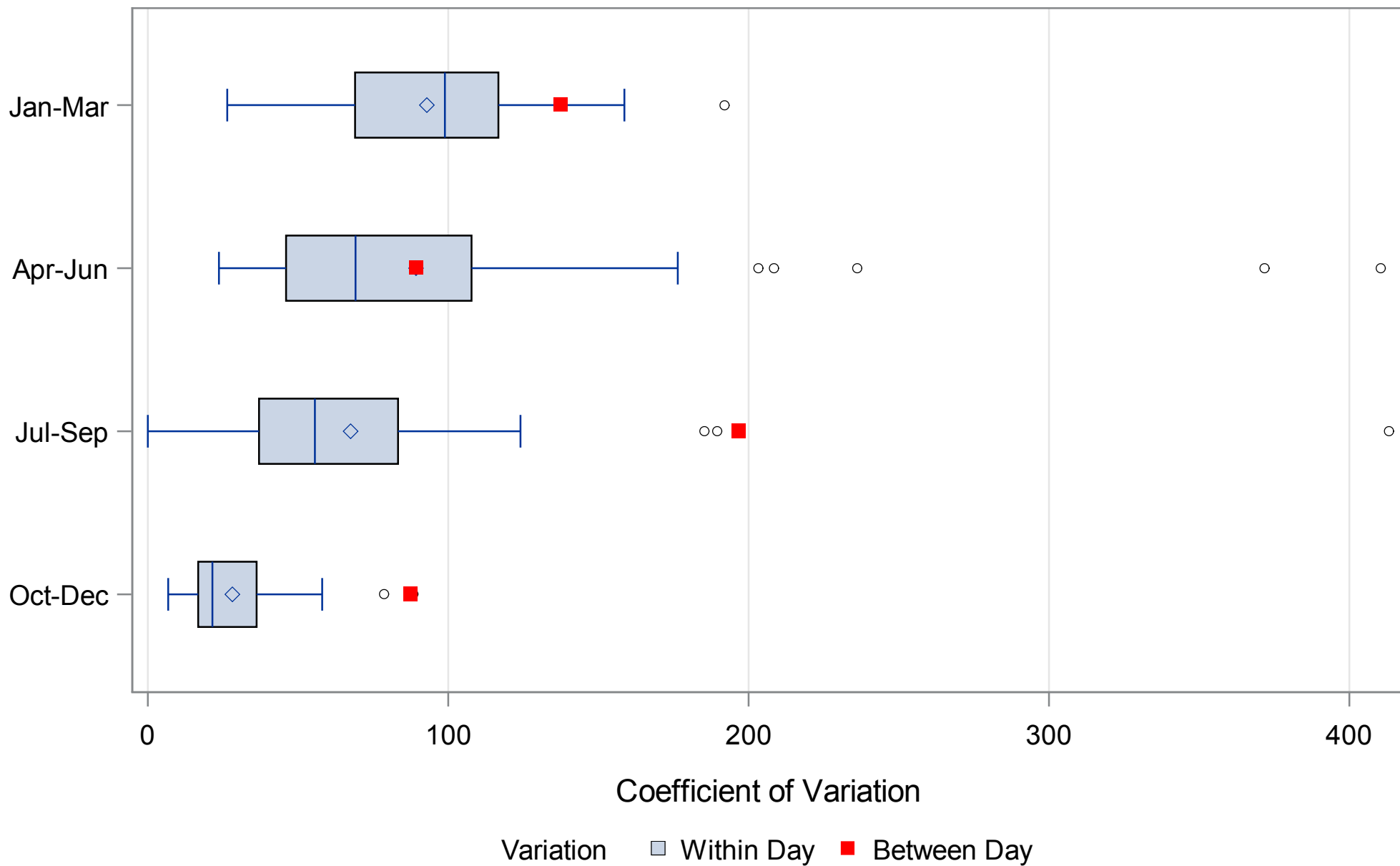
Turbidity



Chassahowitzka River

Chass Near USGS Gage

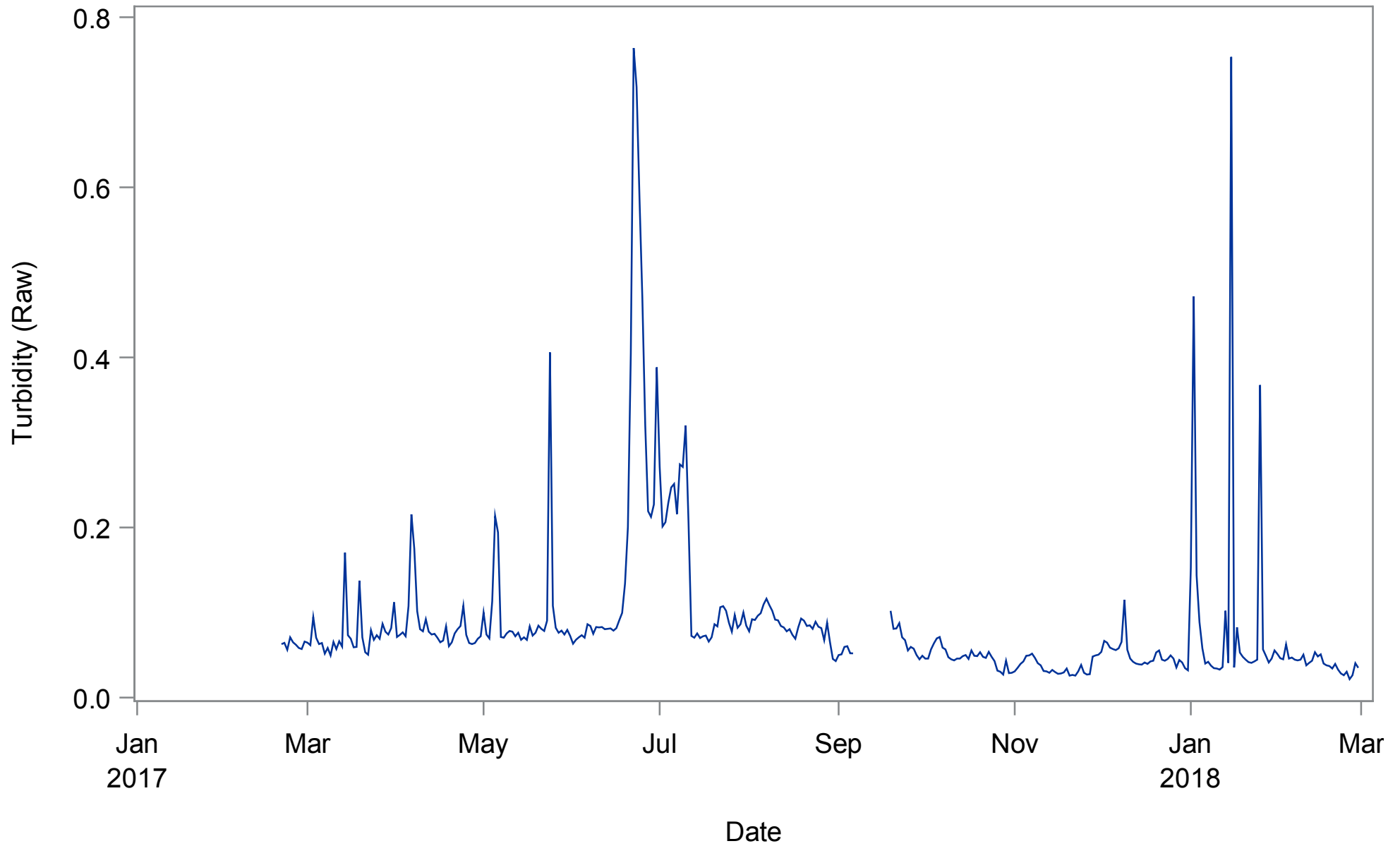
Turbidity



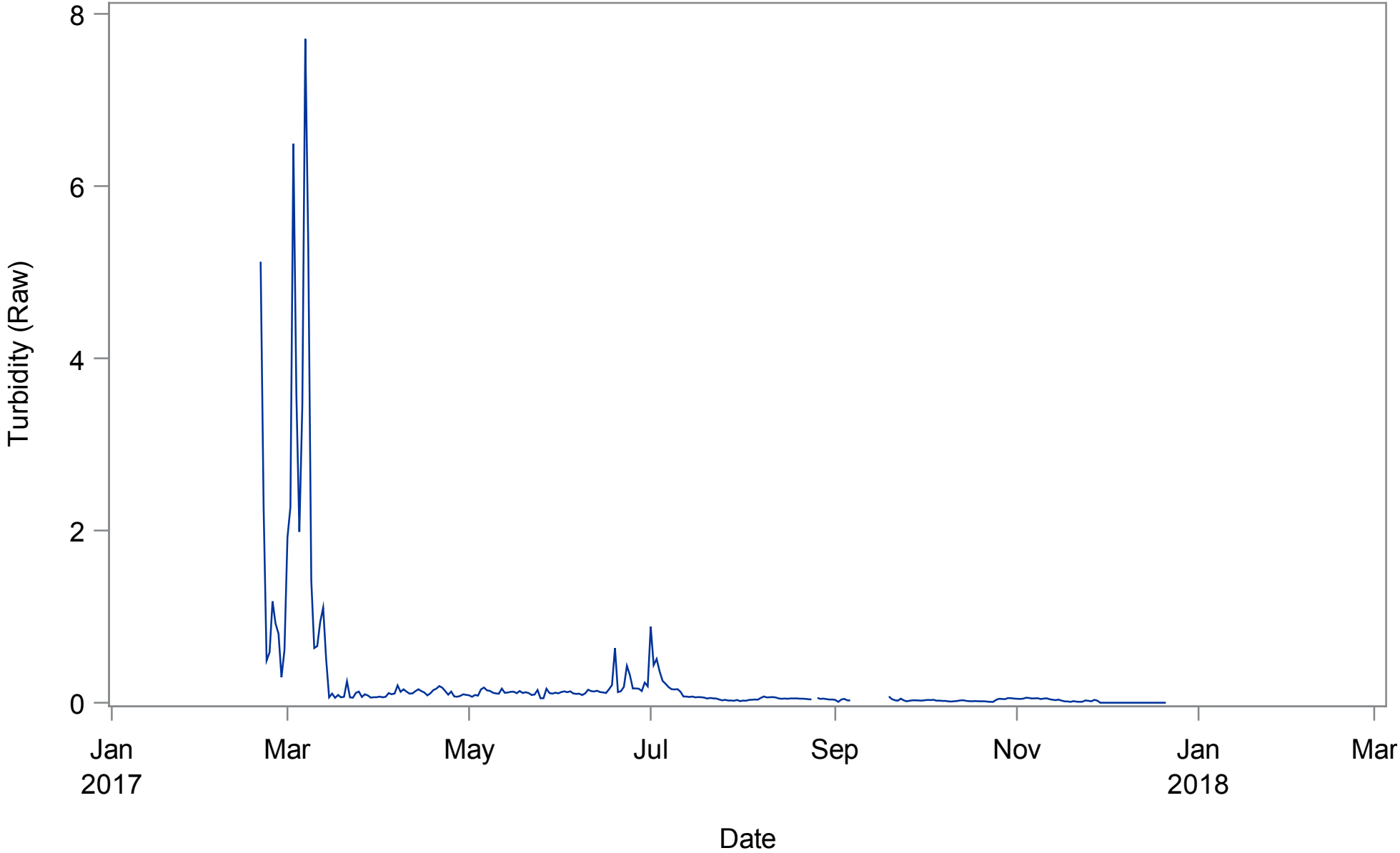
Chassahowitzka River

Chass Near Mouth

Turbidity (Raw)



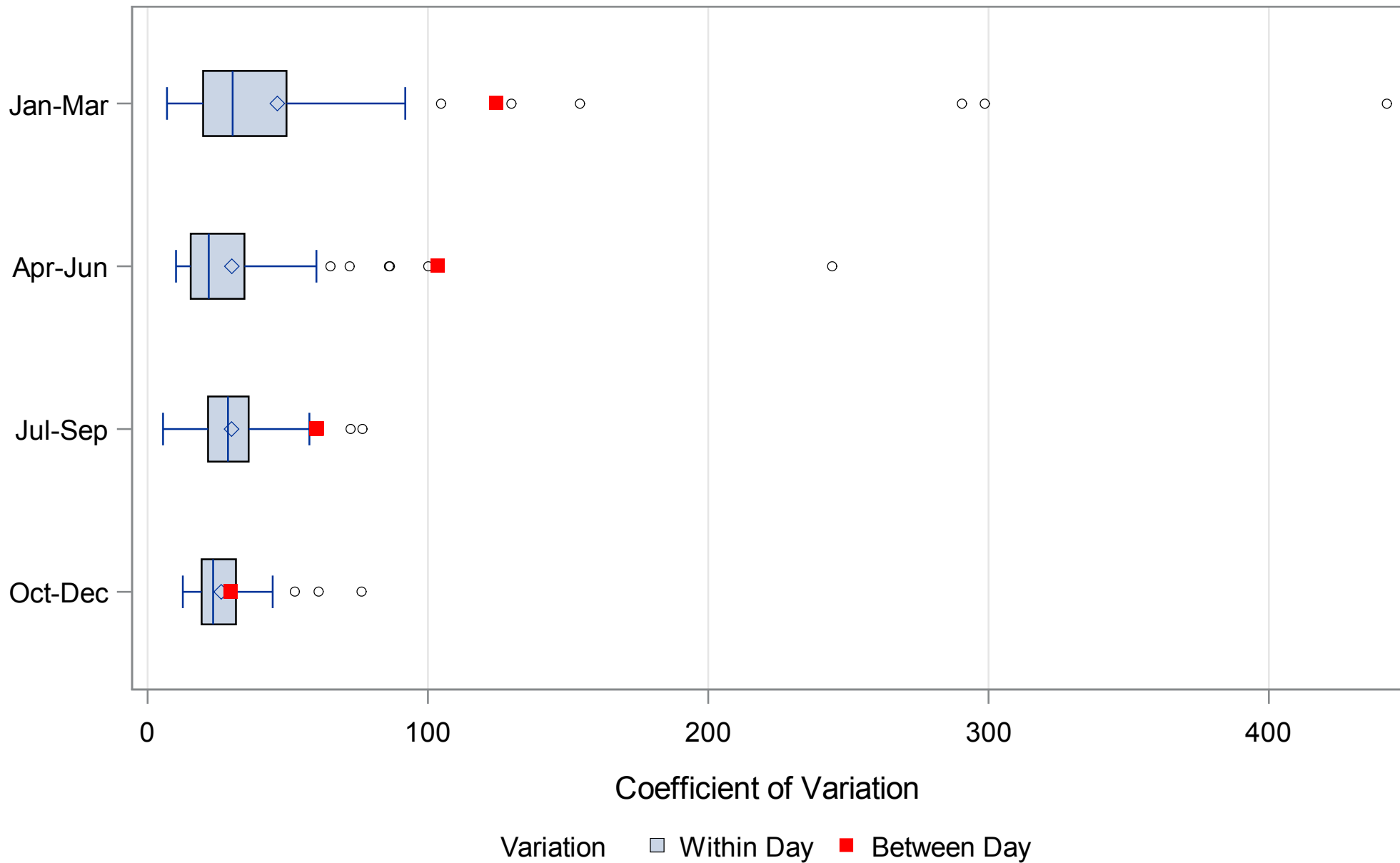
Chassahowitzka River
Chass Near USGS Gage
Turbidity (Raw)



Chassahowitzka River

Chass Near Mouth

Turbidity (Raw)



Chassahowitzka River

Chass Near USGS Gage

Turbidity (Raw)

