Lower Peace River Water Quality Study

TWA #: 19TW0002039

Final Report

Prepared for:

Southwest Florida Water Management District

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December 2019

Executive Summary

The Southwest Florida Water Management District (SWFWMD or District) is currently reevaluating the minimum flow rule for the Lower Peace River (LPR) and as part of that work effort has issues a task work order (TWA190002039) to evaluate relationships between flows to the Lower Peace River and observed water quality in the Lower Peace River. At the time the original minimum flow rule was developed for the LPR (SWFWMD 2010), descriptive statistics and statistical analyses were conducted to evaluate relationships between flows and dissolved oxygen and chlorophyll but concluded that the developed relationships were insufficient at the time for use in development of a minimum flow. The report focused on the application of a sophisticated mechanistic (i.e. hydrodynamic) model to evaluate the effects of flows on salinity distributions throughout the river and this model was a critical tool for assessing the potential effects of surface water withdrawals on the LPR.

Minimum Flows are reviewed periodically and revised as necessary and the specific objective of this report was to provide documentation, exploratory analysis, predictive modeling and statistical inference regarding the relationships between flows and water quality constituents in the LPR to supplement existing information. The effects of flows on total nitrogen, total phosphorus, chlorophyll a and dissolved oxygen concentrations throughout the domain of the system were of special interest to the District and are emphasized in this report. The effects of flows on salinity are being evaluated separately by the District using the mechanistic model.

Descriptive plots and statistics confirmed the previously reported seasonality in water quality with increased flow in the summer Wet season which correspond with increasing colored dissolved organic matter, stratification which suppresses dissolved oxygen concentrations in the lower river, and an increase in nutrient concentrations. The results of predictive modeling confirmed these descriptive findings and provided little evidence that flow reductions in the range considered by the proposed minimum flows would have negative effects on water quality in the LPR. Evaluations against State water quality standards suggested that seasonally specific assessments were warranted and seasonally specific analysis was performed to reduce the effects of seasonality on observed outcomes. Nutrient concentrations tended to increase with increasing flows irrespective of season. Most exceedences of the State water quality criterion for dissolved oxygen were observed during the Wet season and while there was limited evidence that increased flows in the Dry may decrease adverse conditions with respect to DO standard exceedences, exceedences of the standard were rare during the Dry season.

The relationship between flows and chlorophyll a was complex and site specific but the natural variation in phytoplankton concentrations (as measured by chlorophyll a) tended to overwhelm any signal associated with potential flow reductions within the range of the proposed minimum flow. The chlorophyll peak tended to migrate up and down the river as a function of seasonally based variations in inflow and while flow reductions may increase the probability of a chlorophyll criterion exceedence in one section of the river, it was likely to reduce the probability of exceedence in another section of the river, resulting in a net zero change when evaluating the exceedence rates.

Application of the predictive modeling results demonstrated that the overwhelming evidence suggested that reduced flows within the range proposed by the Minimum Flow would not have a deleterious effect on water quality in the LPR. In the only case where modeling suggested that reduced flows may have a negative effect on water quality, the outcomes were well within the uncertainty of the model estimates. Therefore, it was concluded from this research that there was no evidence from the statistical models developed as part of this analysis to suggest that the proposed Minimum Flow would have a deleterious effect on water quality to the extent it would pose any quantifiable additional risk to the water resources or ecology of the Lower Peace River.

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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 (FDEP) 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. For the purpose of Minimum Flow development, the Southwest Florida Water Management District (SWFWMD or District) defined the Lower Peace River as the portion of the river below the U.S. Geological Survey (USGS) gage (02296750) at Arcadia and the Lower Shell Creek as the portion of the creek downstream of the Hendrickson Dam (SWFWMD 2010). Collectively, this area is referred to in this document as the Lower Peace River (LPR). Minimum Flows are reviewed periodically and revised as necessary. The Minimum Flow rule for the Lower Peace River was established with a directive to periodically reevaluate the minimum flow rule with the best available information and the District is thus currently reevaluating the Minimum Flow for the Lower Peace River.

As part of the District's efforts to reevaluate the LPR minimum flow, a work effort was contracted with Janicki Environmental, Inc. through Applied Technology and Management (Task Work Assignment No: 19TW0002039) to evaluate relationships between flows to the LPR and observed water quality in the LPR. The specific tasks within this TWA consisted of data compilation, summarizing existing studies, conducting exploratory data analysis, conducting stochastic predictive modeling and synthesizing information regarding the potential effects of flows on downstream water quality. Initial tasks included the compilation of available water quality and water quantity data and creation of a Microsoft Access 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. The Access database, screening methods, summary statistics, and tabular/graphical output from those analyses were provided as separate deliverables associated with this project. This report briefly summarizes those efforts and describes the development of statistical models and their application to evaluate the effects of flows on downstream water quality that can be used to assess the potential effects of the proposed minimum flow on the natural resources of the LPR.

1.2 REPORT OBJECTIVES

The specific objective of this report was to provide documentation, exploratory analysis, and statistical inference regarding the relationships between flows and water quality constituents in the LPR to supplement existing information used to support the reevaluation of minimum flows for the Lower Peace River. The effects of flow on total nitrogen, total phosphorus, chlorophyll *a* and dissolved oxygen concentrations throughout the domain of the system were of special interest to the District and will be emphasized. The effects of flows on salinity have been evaluated separately by the District using a mechanistic model and are therefore not considered as part of this effort.

1.3 PREVIOUS STUDIES

The following subsections summarize findings of several prior studies specifically related to water quality assessments in the Lower Peace River as cited below. These summaries focus on results of modeling efforts for the specified constituents of interest relative to evaluating the effects of freshwater inflow in the Lower Peace River on downstream water quality. The summaries have been organized by water quality constituent. While salinity is included in these summaries, salinity was not part of the analytical work for this effort as it is being evaluated independently by the District.

1.3.1 Salinity

Salinity is an important physical driver of biotic assemblages in tidal tributaries and the variability in salinity as a function of freshwater inflows to the LPR has been studied extensively. The minimum flows document (SWFWMD 2010) reported no evident long-term trends in salinity, but inter-annual variations were evident over multi-year time scales relating to large-scale meteorological events (e.g. El Nino). Salinity concentrations were higher in the Dry season months than Wet season months. Variability was greater in surface water salinities due to freshwater flows resulting in low surface water salinities in the Wet season. With distance upstream, surface and bottom water salinities were more similar as values decreased with distance upstream. There was a distinct inverse relationship between measured surface salinities and increases in gaged flow up to 3000 cfs at the most downstream fixed sampling site, located near the river's mouth. Farther upstream there were critical values of flow, above which the salinity at that location was predicted to be entirely freshwater water. The HBMP documented effects of Facility withdrawals on salinities but report that the increases remain relatively small when compared to the range of naturally occurring daily, seasonal and longer term flow/tide related variation along the lower Peace River.

Shell Creek, a tributary to the LPR was described in a separate technical document prepared to provide data and analyses requested by the District in order to evaluate whether the biological communities of the Shell Creek/lower Peace River estuarine system might be adversely impacted as a result of flow reductions (PBSJ 2006). Under no-flow conditions, surface salinities near the dam on Shell Creek can reach nearly 15 psu. As flows increase, salinities can decrease to zero. Variability increases in the salinity flow relationship moving downstream as a result of the combined effects of tidal volume and Peace River flows. Unusually high tides or extended periods of southerly winds may move higher salinity water upstream increasing salinities beyond those predicted using typical salinity/flow relationships.

1.3.2 Dissolved Oxygen

Hypoxia has been documented to occur in the bottom waters of Upper Charlotte Harbor, and at times in the Lower Peace River, particularly during midsummer (Turner et al 2006; Kim et al 2010). Both the 2010 Minimum Flow Final Report (SWFWMD 2010) and the 2017 Comprehensive Summary Report (Janicki Environmental, Inc. 2017) have described in detail the inter- and intra-annual variation of dissolved oxygen in the Lower Peace River, as well as the spatial variability and initial investigations of relationships with flow. Both reports document distinct seasonal patterns with the lowest concentrations typically occurring during the summer Wet season. Measured

concentrations are generally higher during cooler months, due to lower water temperatures and seasonally increasing wind stress and mixing. In the downstream portion of the Lower Peace River, there were large differences in DO between the surface and bottom waters, with higher concentrations in the surface water at the downstream stations. Differences between surface and bottom water decreased with distance upstream as salinity decreased. As described in the Comprehensive Summary Report (Janicki Environmental, Inc. 2017), surface dissolved oxygen concentrations along the monitoring transect initially increase slightly under increasing low to moderate levels of flow. However, above some level, further increases in flow tend to progressively depress ambient surface dissolved oxygen levels along the HBMP monitoring transect. The relationship between surface dissolved oxygen concentrations and flow is confounded by the combined influences of seasonal changes in water temperature and salinity. Bottom dissolved oxygen levels at the more downstream sites decline with increasing flow in response to progressive density stratification of the water column. The Final Minimum Flow Report (SWFWMD 2010) concluded that while general seasonal patterns have been documented between dissolved oxygen and freshwater inflows, statistically defensible relationships defining the effects of flows have yet to be identified in a manner that could support the development of a Minimum Flow.

A study of sediment cores taken at a location just outside of the mouth of the Peace River and at a location upstream of the US41 Bridge indicate increased nitrogen loading has likely caused a decline in bottom water oxygen concentrations over time (Turner et al 2006). The results from the sediment analyses as well as results from mixing models using C:N ratios and δ13C suggest an estuarine system that is responsive to increased carbon loading from the nitrogen-limited phytoplankton community and whose sediments are becoming increasingly anoxic as a result. The authors state that without management intervention, increased population in the watershed will greatly increase nitrogen loading to the estuary and lead to much higher amounts of phytoplankton biomass and accumulation and exacerbate hypoxic conditions.

Kim et al (2010) expanded research on the vertical stratification and resulting hypoxia in Upper Charlotte Harbor which indicated that hypoxia was predicted primarily nearer the river mouth where stratification was highest. The presence of this stratification allows for sediment oxygen demand (SOD) and other processes to deplete the available oxygen. Organic carbon loads to the sediments of Upper Charlotte Harbor have increased over the past two centuries, increasing SOD. Kim et al (2010) state that it is expected that increased future nutrient loading will lead to increased organic deposits and further increases in oxygen demand. The authors concluded that in order to alleviate the occurrence of hypoxic conditions it would be necessary to reduce stratification (increase vertical mixing), and reduce SOD via reduced nutrient loading, lower temperatures, and reduced organic material.

Tropical storms and hurricanes passing through the Lower Peace River watershed have been shown to increase hypoxic conditions in the Lower Peace River (Tomasko et al 2006). In August and September of 2004, the Charlotte Harbor watershed was affected by three different hurricanes (Charley, Frances and Jean). Eight days after landfall of Charley, the monitoring documented hypoxic to nearly anaerobic DO concentrations throughout the vast majority of the Peace River's watershed. The low DO concentrations appeared to be related to high concentrations of both

dissolved organic matter and suspended materials. While there was a probable influence of wastewater and industrial point source discharges in the Peace River watershed, sub-basins without such discharges also displayed hypoxic conditions in the weeks after Hurricane Charley. Following all three hurricanes in the short timeframe, DO concentrations in the Peace River did not recover to pre-hurricane levels until approximately 2–3 months later. The spatial and temporal pattern of DO fluctuations appeared to be related to the proximity of sampling locations to the path of the eyewall of Hurricane Charley. Within the Harbor itself, the duration of hypoxic conditions was less than that recorded within the Peace River, perhaps reflecting greater dilution of oxygen-poor waters from the watershed with less-affected water from the Gulf of Mexico.

1.3.3 Chlorophyll

The Minimum Flow Report (SWFWMD 2010) and the most recent Comprehensive Summary Report for the HBMP (Janicki Environmental, Inc. 2017) describe the inter- and intra-annual variation and the spatial variability of chlorophyll concentrations in the Lower Peace River. The Minimum Flows Report found that the annual variation in chlorophyll a concentrations was highly variable between stations. Relatively high monthly median concentrations of chlorophyll were observed in the spring in the mid and upper river regions, due presumably to rising water temperatures and longer residence times in this region of the river during low flows in the spring. Chlorophyll concentrations peaked at Rkm 15.5 and decreased again with distance upstream. These findings are generally supported by the HBMP Comprehensive Summary Report (Janicki Environmental, Inc. 2017).

The HBMP Comprehensive Summary Report also described the apparent relationship of chlorophyll concentrations with freshwater inflow. Phytoplankton levels (as measured by chlorophyll a) in the Peace River and Charlotte Harbor during periods of low to moderate freshwater flow were limited by the availability of inorganic nitrogen. However, as flows increase, nutrient supply increases and phytoplankton production increases until light penetration becomes limited by the corresponding increase in colored dissolved organic matter. The highest chlorophyll a concentrations tended to occur in the middle portions of the lower as was described elsewhere. The Final Minimum Flow Report (SWFWMD 2010) did not find compelling relationships between chlorophyll and inflows that could be used to evaluate the effects of flow reductions on chlorophyll in the LPR. A regression model relating the location of the peak chlorophyll to flows was mentioned as a potential mechanism for evaluating the effects of flows but the regression equation was not provided nor was any information provided on how the regression might be used to assess potential harm to the system by the movement of the peak chlorophyll value.

The most comprehensive evaluation of the effects of flows on water quality to date was summarized in a report conducted by Atkins (2014). The report was prepared for the District, whose primary interest in the effort centered on supplementing research into the flow water quality relationships. While statistically significant correlations between various water quality constituents and flow were documented, most of the significant correlations were weak. Water color was found to have the strongest correlation, and TKN typically exhibited moderate to strong positive responses, with inflow. Graphical analyses of chlorophyll a versus predicted water age did not

show consistent strong, distinctive patterns within any of the tested intervals along the lower river transect examined. Multiple graphical and predictive analyses provided insight into the primary factors influencing the seasonal timing and relative locations of seasonal phytoplankton increases in the estuary, but the applied techniques failed to result in predictive models that could be used to assess potential temporal/spatial changes in chlorophyll concentrations due to withdrawals from the river. The report (Atkins 2014) concluded that a variety of factors influence the potential for elevated chlorophyll concentrations in the LPR including the combined influences of residence times, water color, and nitrogen loadings but that statistical tools to separate out and attribute causality to these factors within the context of flow reductions were insufficient for utility in support of establishing Minimum Flow rules.

1.3.4 Nutrients

Nutrient concentrations in the LPR have been previously described in the Minimum Flow Final Report (SWFWMD 2010) and the most recent HBMP Comprehensive Summary Report (Janicki Environmental, Inc. 2017). Total nitrogen concentrations were higher upstream towards fresher water and also increased throughout the river during the high flow season. The Lower Peace River/Upper Charlotte Harbor estuarine system is naturally high in phosphorus due to the extensive natural phosphate deposits in a number of the major upstream watershed basins (Janicki Environmental, Inc. 2017). Measured phosphorus levels in the estuary have declined by as much as an order of magnitude since the early 1980s due to changes in upstream mining practices. Total Phosphorus concentrations increased slightly with distance upstream and monthly concentrations of total phosphorus were higher during the later summer months, lagging behind TN and chlorophyll. Since 2003, the HBMP program has reported phosphorus concentrations as orthophosphate (which is usually more than ninety percent total phosphorus). Orthophosphate concentrations progressively increase upstream towards the freshwater source, and initially rise in response to higher levels of freshwater inflow. As described in the Minimum Flow report (SWDWMD 2010) neither total nitrogen nor total phosphorus exhibited a strong relationship with inflow and it was thus concluded that appropriate tools relating TN and TP to freshwater inflows in the Lower Peace River and Shell Creek did not exist at time of the report.

Nutrient targets and thresholds were developed for the estuarine segments of the Charlotte Harbor National Estuary Program (CHNEP) including the Tidal Peace River (Janicki Environmental, Inc. 2011). The report evaluated stressor-response relationships but ultimately relied on a Reference Period approach to develop nutrient targets and thresholds to protect seagrass distributions in CHNEP estuarine segments. The CHNEP Management and Policy committees approved recommendations for the TN and TP concentration-based thresholds as numeric criteria to be adopted into Florida Administrative Code. The recommended nutrient criteria for TN concentrations in the Tidal Peace segment was an annual arithmetic average concentration of 1.08 mg/L. Additionally, criteria were developed for TP concentrations as an annual arithmetic average concentration was 0.50 mg/L. Subsequent to the report, estuary-specific numeric interpretations were adopted as water quality standards by DEP effective February 17, 2016. By rule, the criteria are expressed as annual arithmetic averages not to be exceeded more than once in a three year period.

2.0 DATA SOURCES AND SUMMARIES

The District delivered discharge data for the Lower Peace River including records for Arcadia, Horse, and Joshua Creeks, a baseline discharge condition for these locations, withdrawal data associated with surface water withdrawal facilities in both the Lower Peace River and Shell Creek, gage height data at several locations in the Lower Peace River, a proposed Minimum Flows scenario, and Shell Creek water quality data. Janicki Environmental incorporated data from the Peace River Authority HBMP program including discharge and water quality data used for compliance with the Authority's Water Use Permit (WUP). A Shell Creek HBMP water quality database was provided by Atkins as the contractor for the Shell Creek HBMP program. In alignment with the original Minimum Flow report, the analyses in this report rely heavily on the Authority HBMP data, but we also evaluated data from multiple sources available including FDEP's Impaired Water Rule (IWR) database and USGS continuous recorders. These data were assembled into a master MS Access database that was delivered as part of Task 2 of this contract.

The HBMP monthly fixed station sampling program was the predominant source of data with sampling stations throughout the LPR (Figure 2-1). The river domain for the Minimum Flow is defined as the mouth of the Lower Peace River (i.e. Rkm 0) to the Authority's intake location; however, two HBMP stations located at Rkm -2.4 and Rkm 30.7, just downstream and upstream of the domain, respectively, were also considered as part of the analytical effort. The analyses also included a water quality station location at the confluence of the Lower Peace River and Shell Creek to determine the relative effects of Peace River and Shell Creek flows on water quality at that location.

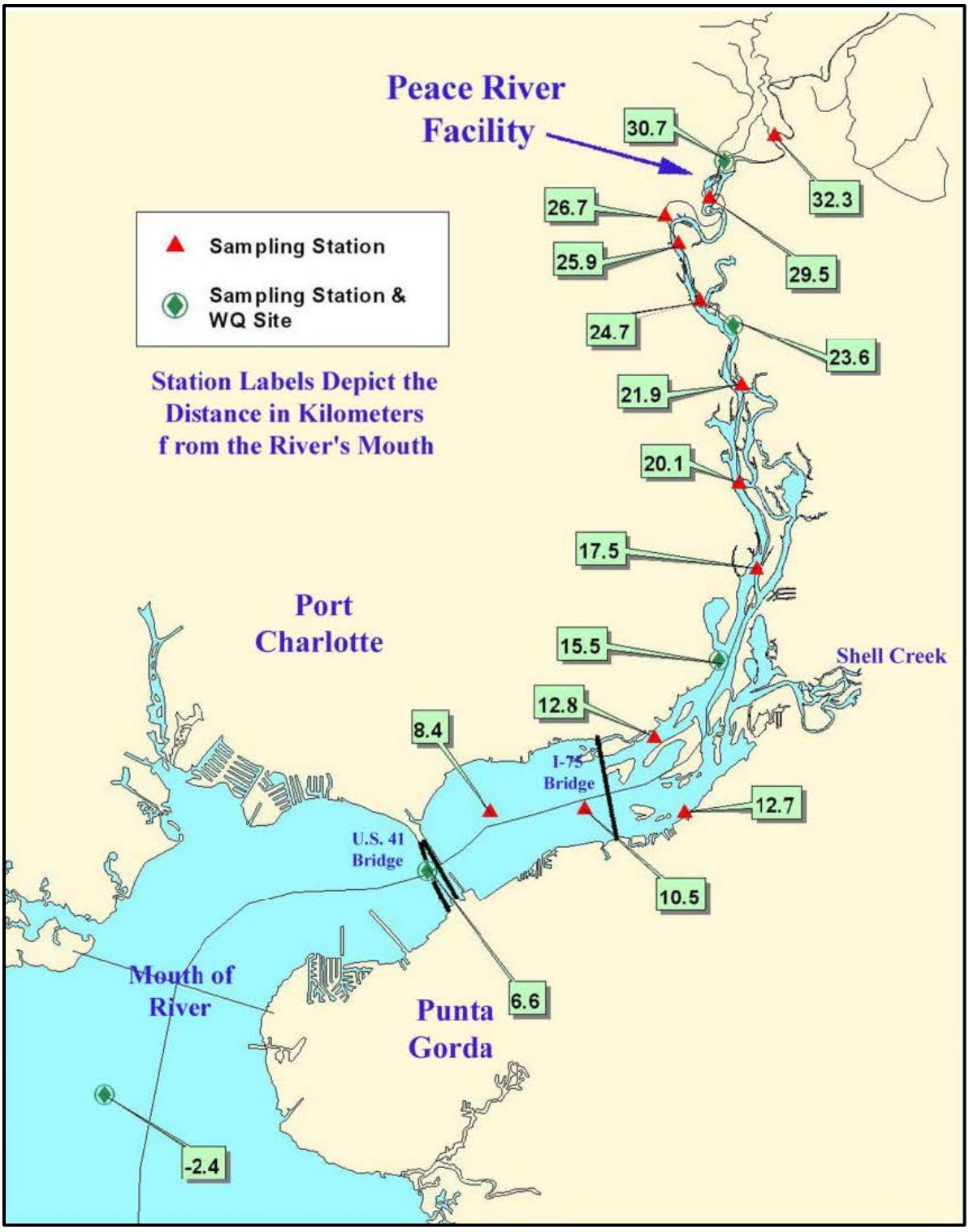


Figure 2-1. Fixed station HBMP locations; note river kilometer 26.7 is not currently part of the sampling program.

Multiple data sources were required by this water quality assessment including hydrologic data, continuous salinity recorders, isohaline-based moving water quality sampling, and the long term fixed-station water quality sampling. A descriptive summary of the data associated with each of these sampling elements is provided below.

2.1 HYDROLOGIC DATA

The data delivered by the District served as the official period of record data for this project. The period of record for the Lower Peace River began on May 1 1950 through 2018 with no missing dates and included an Observed, Baseline, and Minimum Flow data record. The term "LPR flows" is used to describe flows just upstream of the Authority withdrawal point in the river. The distribution of LPR flows over that period of time is log normally distributed with a maximum observation of 29,380 cfs, a minimum of 12 cfs, a median value of 535 cfs and an average of 1,303 cfs. (Figure 2-2).

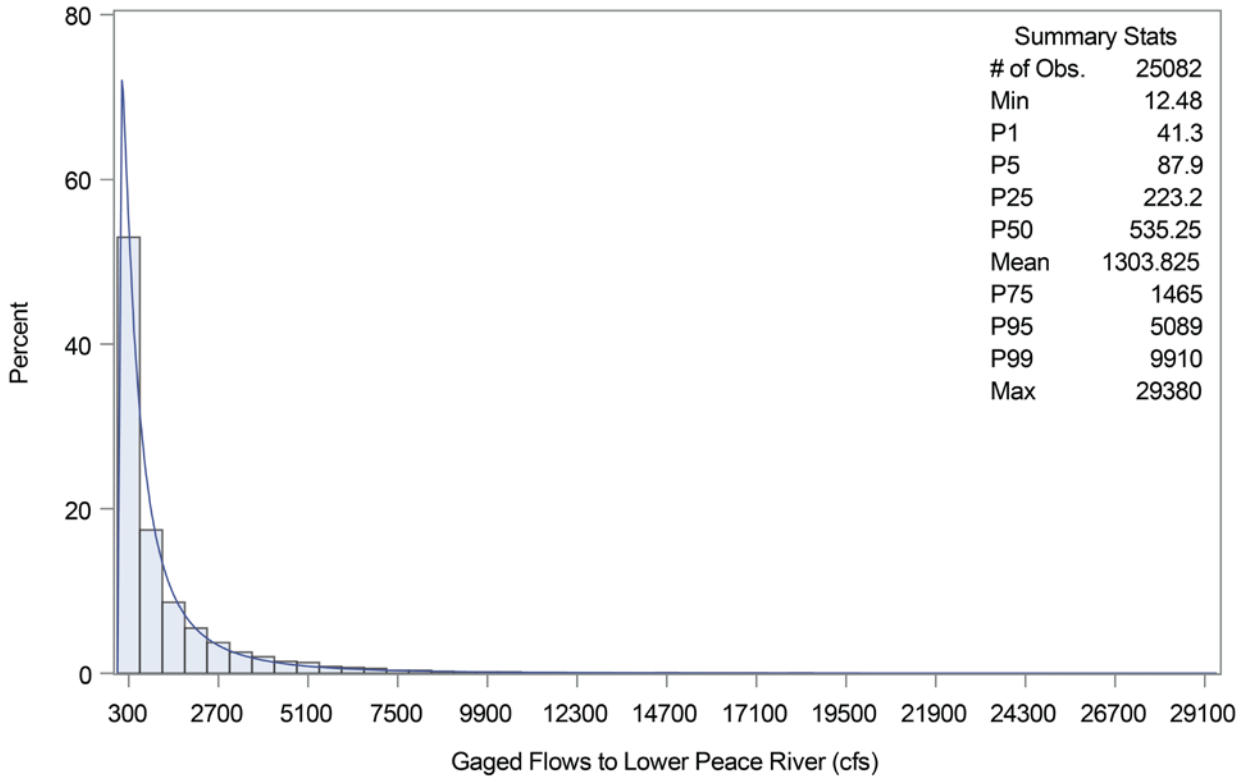


Figure 2-2. Distribution of flows just above the Authority withdrawal location between 1950 and 2018.

A timeseries plot shown on the natural log scale is provided in Figure 2-3.

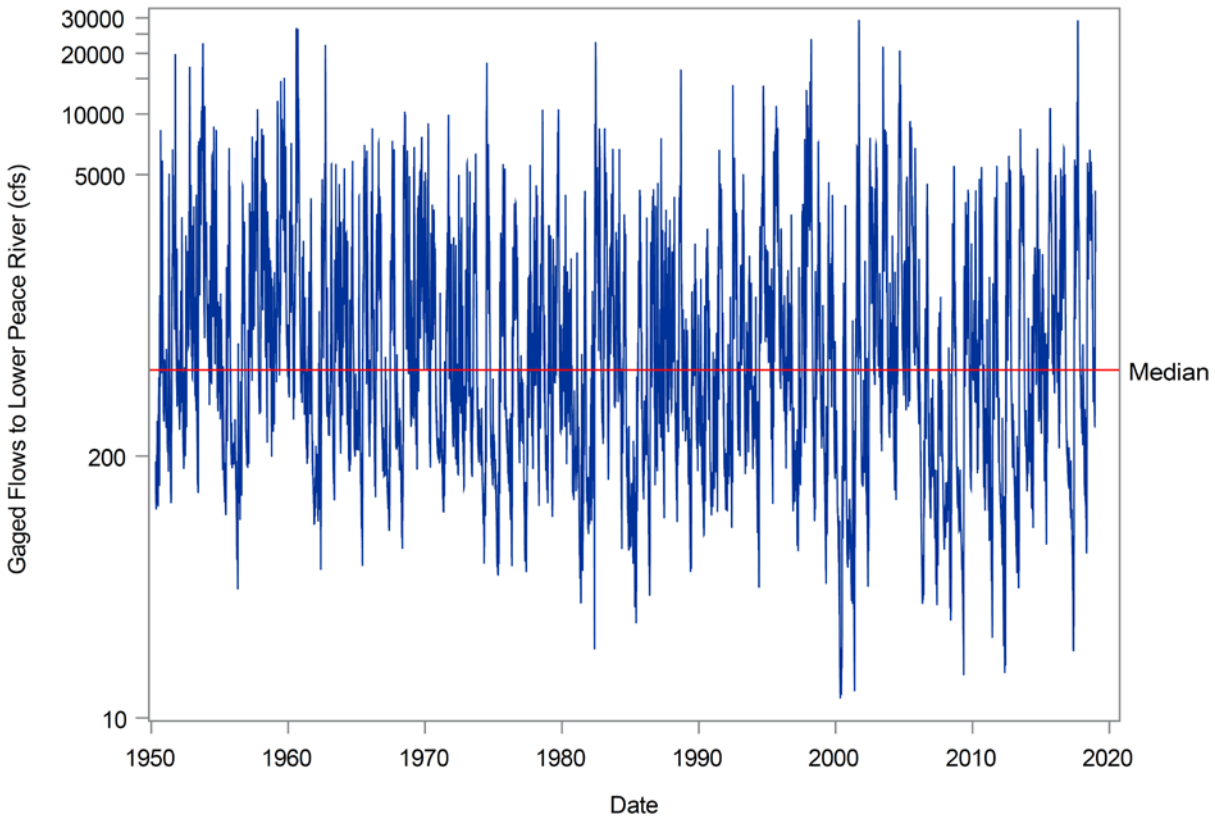


Figure 2-3. Timeseries of "LPR" flows plotted on natural log scale.

Withdrawals from the Authority facility began in 1980 and increased after 2010 coinciding with the construction and expansion of the reservoir. The Authority did not withdrawal on ca. 35% of the days since January 1980, recorded a median withdrawal of ca. 10 cfs and observed a maximum recorded withdrawal of 185 cfs (Figure 2-4). A timeseries of the withdrawals is presented in Figure 2-5.

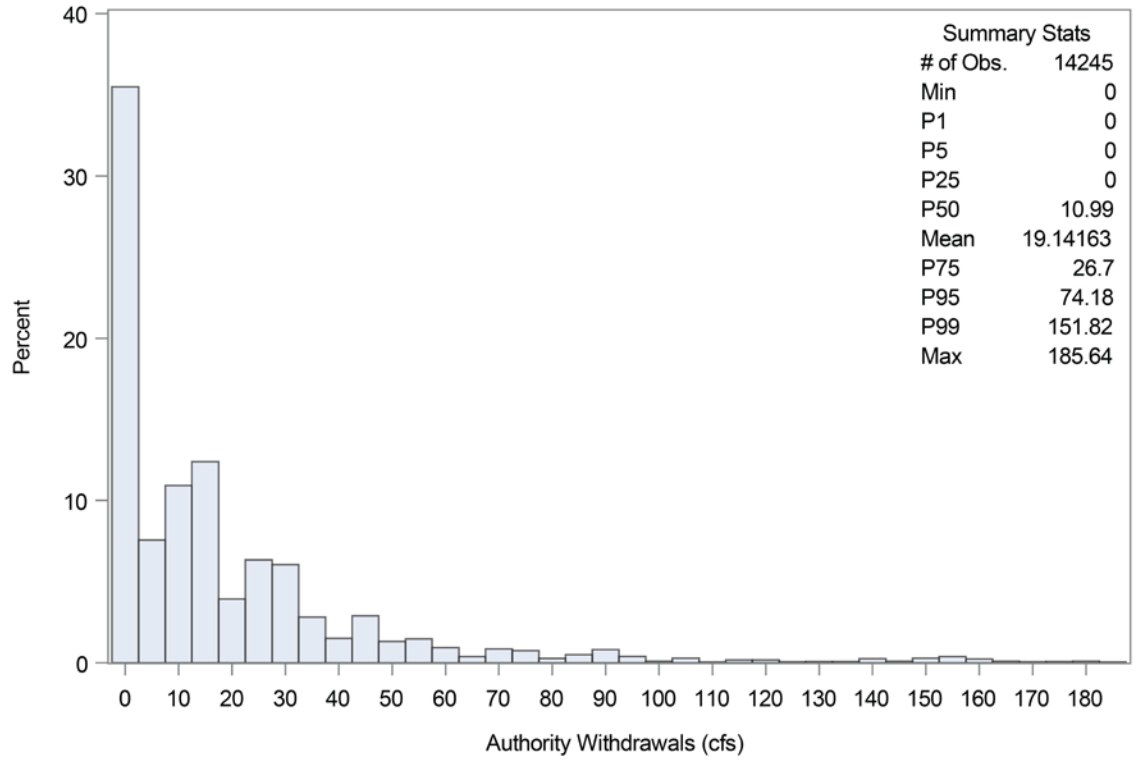


Figure 2-4. Distribution of withdrawals from the Authority.

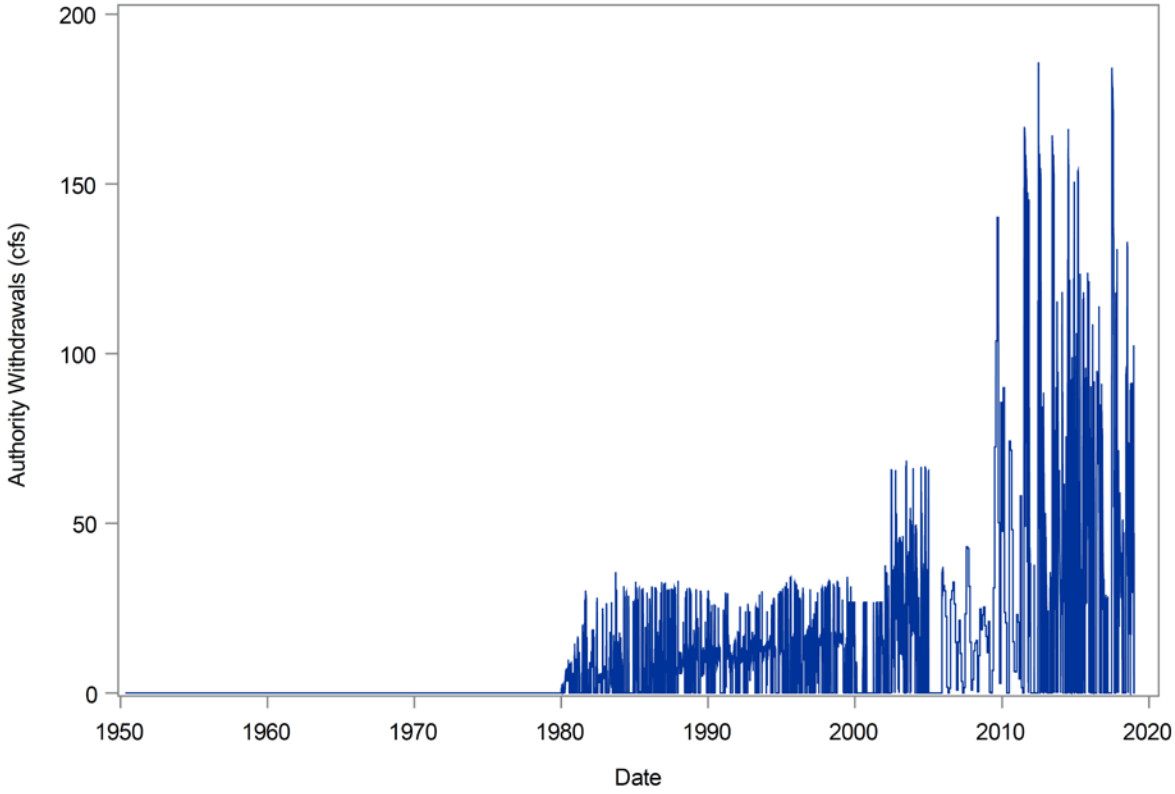


Figure 2-5. Recorded withdrawals for the Authority for the period of record.

Below the withdrawal point the Lower Peace River is joined by Shell Creek (See Figure 2.1 above) which also has associated flows and withdrawals. Shell Creek flow timeseries includes corrections for historical agricultural flows and withdrawals by the City of Punta Gorda. Those flows are accounted for to create a baseline timeseries which starts in 1966 and is complete through 2018 (Figure 2-6).

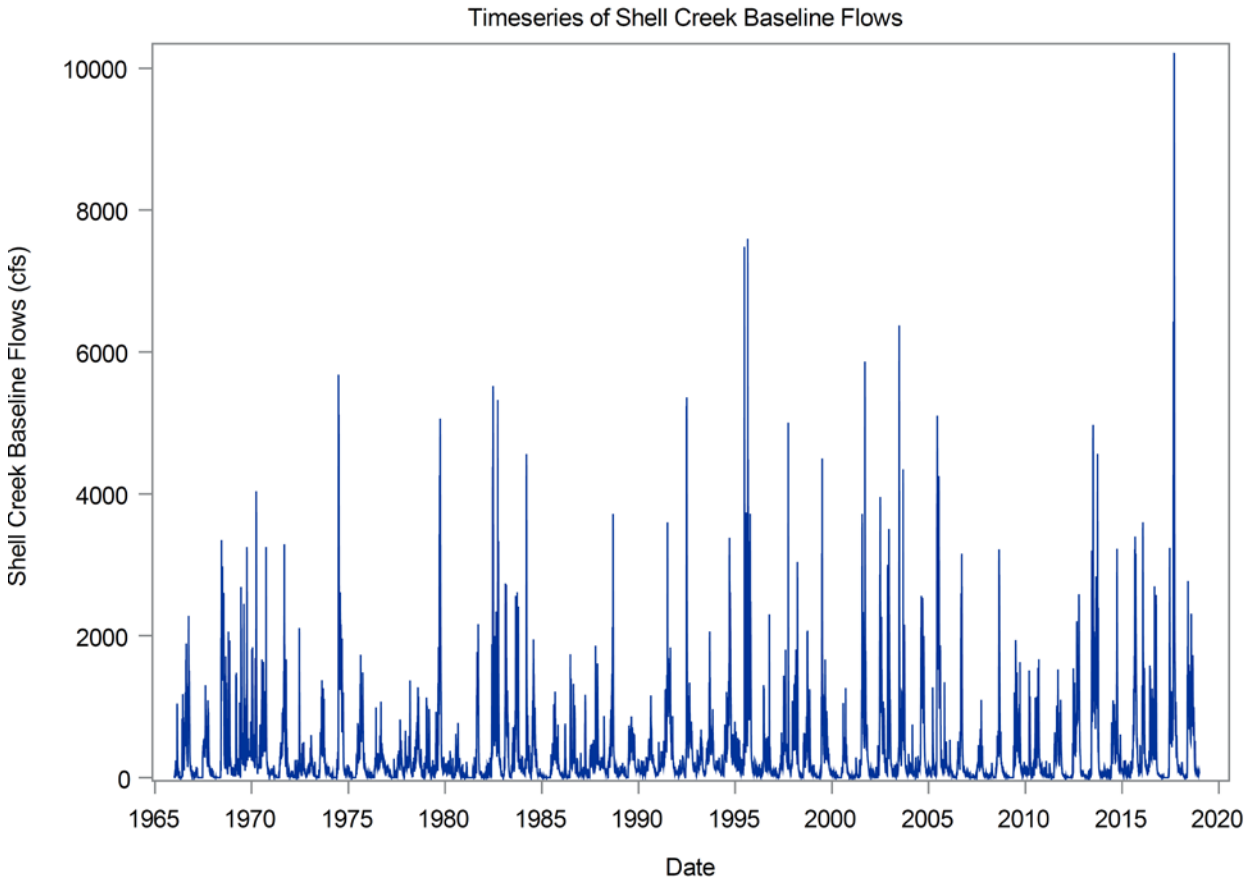


Figure 2-6. Timeseries plot of Shell Creek baseline flows.

2.2 Water Quality Data

2.2.1 HBMP Moving Isohaline-Based Sampling

Monthly water quality data were available for this element for the period 1983-present. During the first week of each month, water quality measurements (physical and chemical) are conducted at four "moving" salinity-based isohaline locations (0, 6, 12, and 20 psu) along a river kilometer centerline running from the imaginary "mouth" of the Peace River upstream to above its junction with Horse Creek, and downstream to Boca Grande Pass. The selection of the salinity-based sampling zones was originally established on a literature review of known spatial estuarine differences among the major plankton groups:

- Oligohaline Conditions = 0 psu (defined as upstream of 500 us/cm conductivity

- Lower Mesohaline = 5-7 psu
- Upper Mesohaline = 11-13 psu
- Upper Brackish = 20-22 psu

The relative monthly location of each sampling event was based on the first occurrence of these specific isohalines (+/- 0.5 psu), with freshwater being defined as the first occurrence of conductivities less than 500 us/cm (or until reaching the upstream Horse Creek confluence at RK 34.1).

Surface water samples are taken monthly at the four isohaline locations. The constituents measured for each water sample are presented in Table 2-1. The locations of the salinity-based stations are recorded as kilometers in the river channel upstream of the river mouth and expressed as isohaline locations. At each station on each date, vertical profiles of salinity, specific conductance, temperature, pH, and dissolved oxygen are taken at surface, one-half meter intervals and bottom. Light profiles are taken using a LICOR photometer or another comparable instrument that meets District specifications. Light penetration profiles are recorded in depth increments consistent with methods previously used in the monitoring program. Light extinction coefficients are computed for each site.

Table 2-1. HBMP chemical water quality constituents analyzed in isohaline-based and fixed-station sampling

Salinity (psu)	Ammonia/Ammonium Nitrogen (mg/L)
Chloride (mg/L)	Total Kjeldahl Nitrogen (mg/L)
Color (pcu)	Total Nitrogen (mg/L)
Iron (mg/L)	Suspended Solids (mg/L)
Ortho-Phosphorus (mg/L)	Volatile Solids (mg/L)
Nitrate + Nitrite Nitrogen (mg/L)	Chlorophyll *a* (ug/L)

Monthly data are available for this element for the period 1983-present. Summary statistics are presented for the entirety of the river (Table 2-2). Statistics by isohaline which may represent different locations in the river given the shifting of salinity zones due to changes in freshwater flow are provided along with detailed descriptive statistics in Appendix A.

Table 2-2. Summary Statistics for Moving isohaline-based sampling element for the entire sampling region over the period of record.						
Constituent	**Start Date**	**End Date**	**N**	**Mean**	**Min**	**Max**
Chlorophyll a (ug/L)	16-Jun-83	5-Dec-18	1922	18.03	0.1	992
Color (pcu)	16-Jun-83	5-Dec-18	1934	113.71	2.5	600
Bottom Conductivity (us/cm)	16-Jun-83	5-Feb-19	1935	19,837	109.1	74,684
Surface Conductivity (us/cm)	16-Jun-83	5-Feb-19	1932	14,513	7	41,572
Bottom Dissolved Oxygen (mg/L)	16-Jun-83	5-Feb-19	1935	5.54	0.07	13.05
Surface Dissolved Oxygen (mg/L)	16-Jun-83	5-Feb-19	1933	6.83	0.3	18.55
Orthophosphorus (mg/L)	16-Jun-83	5-Dec-18	1934	0.52	0.07	2.19
Bottom pH (std. units)	16-Jun-83	5-Feb-19	1929	7.43	3.63	9.3
Surface pH (std. units)	16-Jun-83	5-Feb-19	1928	7.52	4.89	9.73
Bottom Salinity (psu)	16-Jun-83	5-Feb-19	1935	12.29	0	51.5
Surface Salinity (psu)	16-Jun-83	5-Feb-19	1933	8.73	0	71.8
Silica (mg/L)	16-Jun-83	5-Dec-18	1929	3.83	0.01	15.6
Bottom Temperature (deg C)	16-Jun-83	5-Feb-19	1935	24.70	9.28	32.47
Surface Temperature (deg C)	16-Jun-83	5-Feb-19	1933	25.01	9.38	33.88
Total Nitrogen (mg/L)	16-Jun-83	5-Dec-18	1934	1.26	0	10.84
Total Phosphorus (mg/L)	16-Jun-83	5-Dec-18	1081	0.55	0.02	1.51
Total Suspended Solids (mg/L)	3-Oct-00	5-Dec-18	1093	6.94	0.57	119
Turbidity (NTU)	18-Jan-90	11-Feb-03	655	3.42	0.5	27.5

2.2.2 HBMP Fixed Station Sampling

Approximately two weeks after the collection of the "moving" isohalines, water column physical profiles and light profiles are conducted, near high tide, at 16 "fixed" locations along the centerline of the lower river (see Figure 2-1 above). The centerline runs from just below the river's mouth (Rkm -2.4) upstream to a point just above the Peace River Facility (Rkm 30.7; Figure 2-1 and Table 2-3). In addition, surface and bottom chemical water quality grab samples are taken at five of these locations (Table 2-3). The grab samples are analyzed for the same chemical water quality

constituents as samples from the isohaline-based stations. Monthly data are available for this element over two periods: 1976-1989 and 1996-present. The original Minimum Flows technical document did not use data for the earlier period and therefore only data for the 1996-2018 period are summarized in this report. Summary statistics are presented for each constituent for all stations (Table 2-4). Summary statistics by station and distribution plots for each station and constituent are provided in Appendix B. The fixed station at river kilometer 26.7 is no longer sampled. The fixed station located at river kilometer 30.7 is of special interest to the Authority as it represents water quality just before it is withdrawn from the river. This station is sampled during both the moving isohaline-based element, as well as the fixed-station sampling element. In addition to the constituents listed in Table 2-1, surface grab samples are collected for potassium, sodium, fluorides, phosphorus as P, sulfate, alkalinity and dissolved solids.

Table 2-3 Ongoing HBMP fixed sampling locations and type of sampling at each location.

Historical Station Number*	River Kilometer	Surface and Bottom Grab	Vertical Profile	Light Profile
9	-2.4	X	X	X
10	6.6	X	X	X
21	8.4		X	X
11	10.5		X	X
92 (Shell Creek 9)	12.7		X	X
22	12.8		X	X
12	15.5	X	X	X
23	17.5		X	X
13	20.1		X	X
24	21.9		X	X
14	23.6	X	X	X
25	24.7		X	X
15	25.9		X	X
17	29.5		X	X
18	30.7	X	X	X
19	32.3		X	X

*Station numbers prior to standardization of stations to river kilometer.

Table 2-4. Summary Statistics for fixed-station sampling element for the entire sampling region over the period of record.							
Constituent	**Level**	**Start Date**	**End Date**	**N**	**Mean**	**Min**	**Max**
Chlorophyll a (ug/L)	Bottom	21-Jan-97	19-Dec-18	1300	12.31	0.5	457
Chlorophyll a (ug/L)	Surface	21-Jan-97	19-Dec-18	1310	15.70	0.5	1042
Color (pcu)	Bottom	26-Aug-96	19-Dec-18	1339	112.41	5	500
Color (pcu)	Surface	26-Aug-96	19-Dec-18	1341	118.97	5	510
Bottom Conductivity (us/cm)	Bottom	26-Aug-96	19-Dec-18	4530	15,146.53	78	65956
Surface Conductivity (us/cm)	Surface	26-Aug-96	19-Dec-18	4528	12,137.00	0	64316
Bottom Dissolved Oxygen (mg/L)	Bottom	26-Aug-96	19-Dec-18	4504	5.60	0.04	19.24
Bottom Dissolved Oxygen (mg/L)	Surface	26-Aug-96	19-Dec-18	4502	6.56	0.27	19.1
Orthophosphorus (mg/L)	Bottom	26-Aug-96	19-Dec-18	1339	0.47	0.002	2.1
Orthophosphorus (mg/L)	Surface	26-Aug-96	19-Dec-18	1340	0.49	0.002	3.47
Bottom pH (std. units)	Bottom	26-Aug-96	19-Dec-18	4466	7.40	4.35	9.28
Surface pH (std. units)	Surface	26-Aug-96	19-Dec-18	4464	7.49	5.75	9.25
Bottom Salinity (psu)	Bottom	26-Aug-96	19-Dec-18	4528	9.42	0	44.75
Surface Salinity (psu)	Surface	26-Aug-96	19-Dec-18	4526	7.46	0	43.54
Silica (mg/L)	Bottom	26-Aug-96	19-Dec-18	1338	4.64	0.044	15.9
Silica (mg/L)	Surface	26-Aug-96	19-Dec-18	1341	4.80	0.01	15.5
Bottom Temperature (deg C)	Bottom	26-Aug-96	19-Dec-18	4530	24.76	11.77	36.68
Surface Temperature (deg C)	Surface	26-Aug-96	19-Dec-18	4528	25.07	12.02	34.7

Table 2-4. Summary Statistics for fixed-station sampling element for the entire sampling region over the period of record.							
Constituent	**Level**	**Start Date**	**End Date**	**N**	**Mean**	**Min**	**Max**
Total Nitrogen (mg/L)	Bottom	26-Aug-96	19-Dec-18	1321	1.10	0.092	5.508
Total Nitrogen (mg/L)	Surface	26-Aug-96	19-Dec-18	1325	1.14	0.09	7.42
Total Phosphorus (mg/L)	Bottom	26-Aug-96	28-Jan-03	377	0.50	0.037	1.23
Total Phosphorus (mg/L)	Surface	26-Aug-96	19-Dec-18	471	0.56	0.032	1.47
Total Suspended Solids (mg/L)	Bottom	26-Aug-96	19-Dec-18	831	13.72	0.57	171
Total Suspended Solids (mg/L)	Surface	26-Aug-96	19-Dec-18	834	9.45	0.57	100
Turbidity (NTU)	Bottom	26-Aug-96	28-Jan-03	382	4.15	0.13	84
Turbidity (NTU)	Surface	26-Aug-96	28-Jan-03	384	3.24	0.14	67

2.2.3 Continuous Recorders

Following the 1996 Authority permit renewal, two initial subsurface/near bottom 15-minute salinity recorders were established in the lower Peace River by the USGS. The Authority subsequently deployed three additional continuous subsurface salinity recorders in December of 2005, two additional recorders again in May 2008, and recently three more recorders at the end of June 2011. In December 2009, USGS installed another location, consisting of a pair of near surface and near bottom continuous recorders, immediately adjacent to the Authority intake structure. In total 11 continuous recorders have been in operation within the LPR. These stations record specific conductance, salinity and temperature data. Additionally, one station (RK 12.7) has surface dissolved oxygen data in addition to these other constituents. The three USGS recorder locations provide the Authority the ability to assess river conductance both downstream and at the Facility in real time, in order to prevent the withdrawal of higher conductance water during lower flows above the 130 cfs threshold. The relative locations of the recorder array along the lower Peace River HBMP monitoring transect are depicted in Figure 0-1 and further summarized in Table 2-5. While the HBMP continuous recorders provide ample data for the study of salinity/conductivity, but have limited utility for the purposes of this study since this study is not focused on developing relationships between flows and salinity.

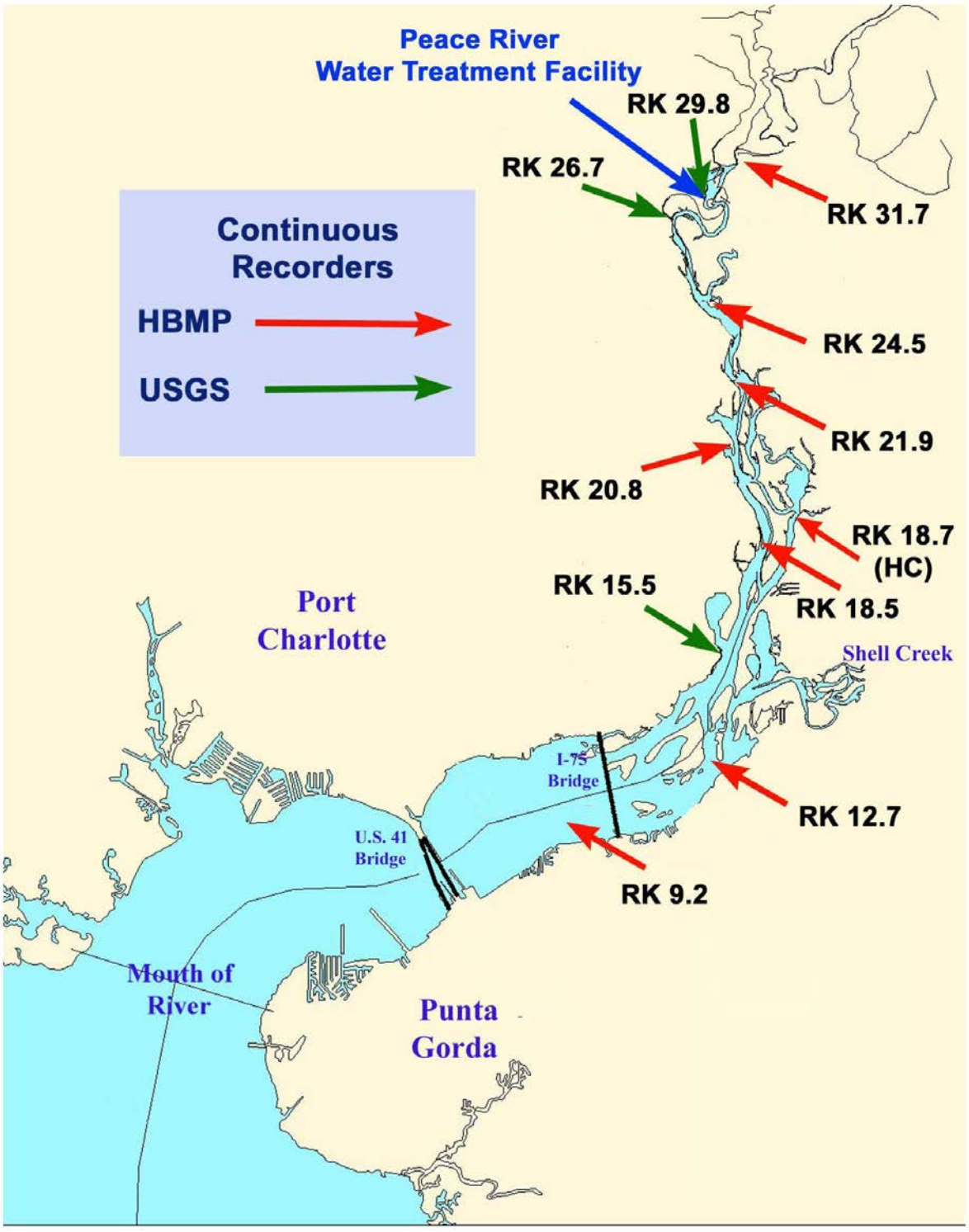


Figure 2-7. Current locations of USGS and Authority (HBMP) continuous recorders.

Table 2-5. HBMP continuous recorder locations (USGS and Authority operated).				
Station ID	**Agency**	**Structure Type**	**Year Began**	**Level**
RK 9.2	Authority	Navigation Marker	2011	Top
RK 12.7	Authority	Manatee Sign	2011	Top
RK 15.5	USGS (02297460)	Dock	1996	Top/Bot
RK 18.5	Authority	Navigation Marker	2011	Top
HC 18.7 (Hunter Creek)	Authority	Manatee Sign	2011	Top
RK 20.8	Authority	Navigation Marker	2011	Top
RK 21.9	Authority	Manatee Sign	2005	Top
RK 24.5	Authority	Manatee Sign	2005	Top
RK 26.7	USGS (02297350)	Dock	1997	Top/Bot
RK 29.8	USGS (02297345)	Facility Intake	2009	Top/Bot
RK 31.7	Authority	Railroad Bridge	2008	Top

2.2.4 Florida Statewide Water Quality Database

Run 56 of FDEP's statewide Impaired Waters Rule (IWR Run 56) database was queried for stations with associated water quality data of relevance (particularly TN, TP, chlorophyll and dissolved oxygen, amongst others) in the study area. Nearly 1,000 stations were contained within the search limits (Figure 2-8). However, the vast majority of individual stations were isolated samples, short-term studies, or had older data with no recent data associated. As one of the objectives of this report was to be able to compare water quality pre- and post-implementation of the Minimum Flow, the list of relevant stations was restricted to those with water quality data both before and after 2011, and with multiple years of data. The resulting set of stations with FDEP waterbody Identifiers (WBIDs) is illustrated in Figure 2-8. Note that WBID 2065A is outside the Minimum Flow domain but is evaluated to describe water quality outside the river mouth.

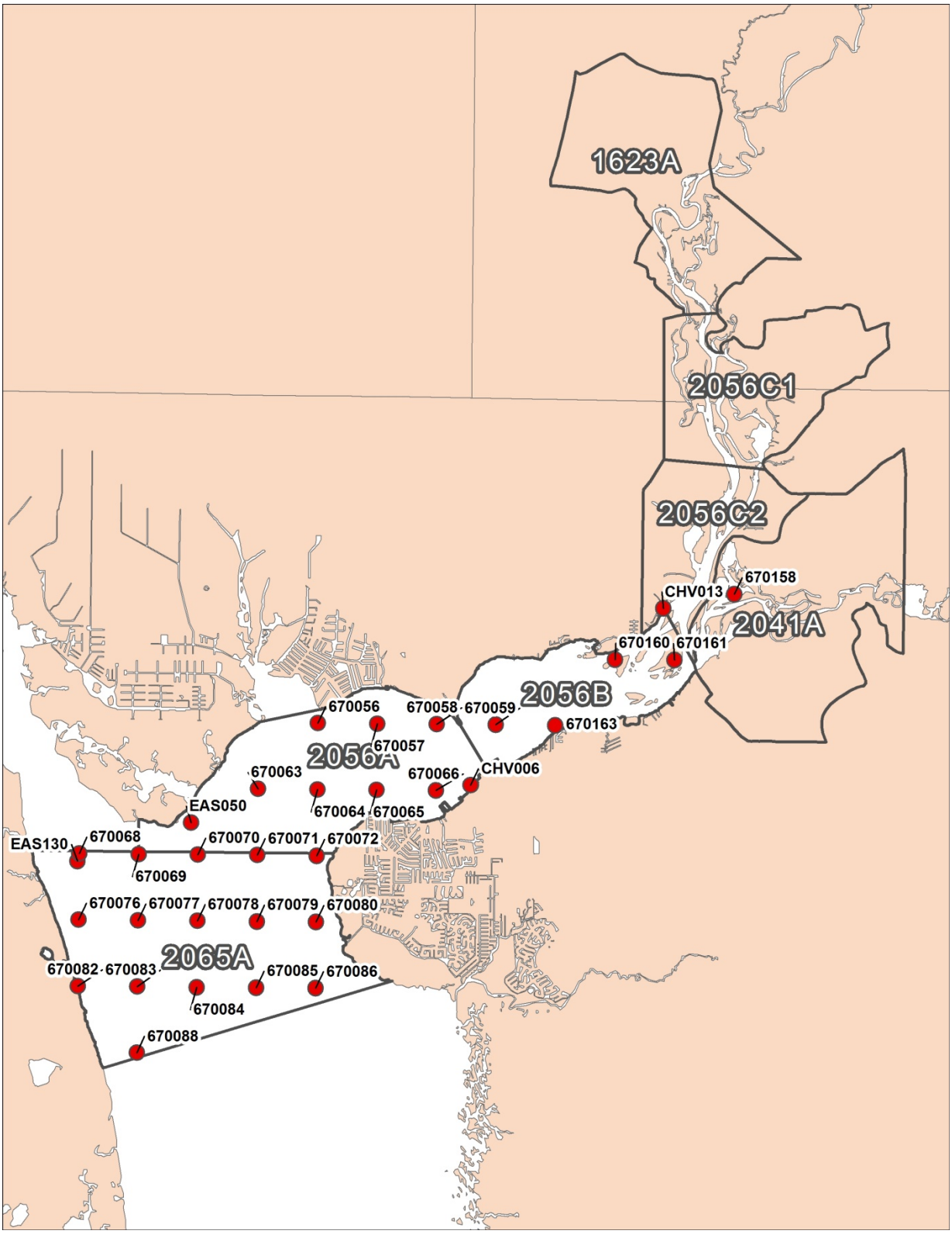


Figure 2-8. Stations from IWR Run 56 dataset with longer-term period of record both pre- and post-Minimum Flows implementation. Station labels consist of the last 6 digits of the "sta" identifier in the IWR dataset. Boundary lines indicate FDEP waterbody identifiers (WBIDs).

The set of stations illustrated in Figure 2-8 include sampling efforts by multiple agencies. All stations beginning with "67" represent District stations for a wide suite of constituents including TN, TP DO/DOSAT and CHLAC from 2010/2011 through 2015. These stations thus have little to no pre-Minimum Flows data. Stations CHV013 and CHV006 are FDEP Charlotte Harbor Aquatic/Buffer Preserves stations with periods of record through 2018, beginning in 2001 and 1996, respectively. These stations include TN/TP, chlorophyll and DO/DOSAT, though the start date varies by constituent. Stations EAS130 and EAS050 are Department of Agriculture and Consumer Services sites with periods of record from the early 1980s to 2017. However, these stations include DO/DOSAT data but no data for nutrients or chlorophyll. In addition to the stations in Figure 2-8, the IWR dataset contained data for multiple stations sampled by the Charlotte Harbor National Estuary Program. Daily average concentrations for each constituent at each station were computed. Only those stations with significant data both pre- and post-2011 were retained. Summary statistics for key constituents, as well as the period of record for each, are listed in Table 2-6.Further detailed summary statistics are provided in Appendix C.

Table 2-6. Period of record and summary statistics by station for IWR Run 56 long-term stations.							
Constituent	**Station**	**Start Date**	**End Date**	**N**	**Mean**	**Min**	**Max**
Chlorophyll a (ug/L)	21FLCHARCHV006	3-Aug-98	6-Aug-18	89	10.06	1	82.1
Chlorophyll a (ug/L)	21FLCHARCHV013	2-Jul-01	6-Aug-18	70	12.54	0.015	53.7
Corrected Chlorophyll a (ug/L)	21FLCHARCHV006	3-Mar-08	6-Aug-18	108	9.80	0.74	110
Corrected Chlorophyll a (ug/L)	21FLCHARCHV013	3-Mar-08	6-Aug-18	108	7.00	0.55	44
Color (pcu)	112WRD 02297460	26-Nov-85	27-Jun-00	48	119.83	20	320
Color (pcu)	21FLCHARCHV006	7-Dec-98	6-Aug-18	203	70.13	9.2	320
Color (pcu)	21FLCHARCHV013	2-Jul-01	6-Aug-18	184	123.20	20	500
Conductivity (us/cm)	112WRD 02297460	26-Aug-96	9-Jan-12	164	12,391.43	87.44	40,266.67
Conductivity (us/cm)	21FLCHARCHV006	1-Aug-16	5-Dec-16	5	25,074.00	11260	41,900
Dissolved Oxygen (mg/L)	112WRD 02297460	26-Aug-96	28-Jun-00	91	5.92	2.31	9.77
Dissolved Oxygen (mg/L)	21FLCHARCHV006	5-May-08	6-Aug-18	103	5.62	1.1	8.6
Dissolved Oxygen (mg/L)	21FLCHARCHV013	7-Apr-08	6-Aug-18	76	6.00	2	13.3
Dissolved Oxygen (mg/L)	21FLSEAS60SEAS050	21-Mar-84	15-Nov-17	228	6.75	1.5	13.1
Dissolved Oxygen (mg/L)	21FLSEAS60SEAS130	21-Mar-84	15-Nov-17	232	6.78	2.85	12.9
Dissolved Oxygen Saturation (%)	112WRD 02297460	26-Aug-96	28-Jun-00	87	74.18	28.9	122.19
Dissolved Oxygen Saturation (%)	21FLCHARCHV006	2-Dec-96	6-Aug-18	229	70.27	13.8	107.5

Table 2-6. Period of record and summary statistics by station for IWR Run 56 long-term stations.							
Constituent	**Station**	**Start Date**	**End Date**	**N**	**Mean**	**Min**	**Max**
Dissolved Oxygen Saturation (%)	21FLCHARCHV013	2-Jul-01	6-Aug-18	181	69.22	17.5	166.3
Dissolved Oxygen Saturation (%)	21FLSEAS60SEAS050	21-Mar-84	15-Nov-17	222	84.64	18.8	163.75
Dissolved Oxygen Saturation (%)	21FLSEAS60SEAS130	21-Mar-84	15-Nov-17	224	85.29	38.8	161.3
pH (std. units)	112WRD 02297460	26-Aug-96	28-Jun-00	94	7.37	6.19	8.37
pH (std. units)	21FLCHARCHV006	3-Mar-08	6-Aug-18	113	7.69	6.8	8.4
pH (std. units)	21FLCHARCHV013	3-Mar-08	6-Aug-18	102	7.40	6.25	8.18
pH (std. units)	21FLSEAS60SEAS050	14-Oct-82	15-Nov-17	257	7.84	4.3	8.5
pH (std. units)	21FLSEAS60SEAS130	14-Oct-82	15-Nov-17	262	7.87	4.3	8.4
Temperature (deg C)	112WRD 02297460	26-Aug-96	9-Jan-12	163	24.74	13.35	32.9
Temperature (deg C)	21FLCHARCHV006	4-Nov-96	6-Aug-18	237	23.74	9	31.1
Temperature (deg C)	21FLCHARCHV013	2-Jul-01	6-Aug-18	190	23.51	13	30.6
Temperature (deg C)	21FLSEAS60SEAS050	14-Feb-79	15-Nov-17	290	24.29	12.6	33.4
Temperature (deg C)	21FLSEAS60SEAS130	19-Apr-79	15-Nov-17	296	24.19	13.7	33.7
Total Nitrogen (mg/L)	112WRD 02297460	26-Aug-96	27-Jun-00	47	1.14	0.46	2.3
Total Nitrogen (mg/L)	21FLCHARCHV006	3-Aug-98	6-Aug-18	199	1.03	0.15	2.42
Total Nitrogen (mg/L)	21FLCHARCHV013	2-Jul-01	6-Aug-18	180	1.30	0.15	4.60
Total Phosphorus (mg/L)	112WRD 02297460	26-Aug-96	27-Jun-00	47	0.56	0.34	0.98

Table 2-6. Period of record and summary statistics by station for IWR Run 56 long-term stations.							
Constituent	**Station**	**Start Date**	**End Date**	**N**	**Mean**	**Min**	**Max**
Total Phosphorus (mg/L)	21FLCHARCHV006	3-Aug-98	6-Aug-18	196	0.30	0.08	0.81
Total Phosphorus (mg/L)	21FLCHARCHV013	2-Jul-01	6-Aug-18	181	0.62	0.23	1.5
Total Suspended Solids (mg/L)	112WRD 02297460	26-Aug-96	27-Jun-00	47	18.56	0.63	65
Total Suspended Solids (mg/L)	21FLCHARCHV006	7-Mar-16	5-Dec-16	10	6.10	2	18
Turbidity (NTU)	112WRD 02297460	26-Aug-96	27-Jun-00	47	4.19	0.3	14.45
Turbidity (NTU)	21FLCHARCHV006	7-Dec-98	6-Aug-18	205	3.54	0.9	30
Turbidity (NTU)	21FLCHARCHV013	2-Jul-01	6-Aug-18	184	4.07	1.2	24
Turbidity (NTU)	21FLSEAS60SEAS050	13-Feb-84	3-Apr-12	263	3.16	0.32	42
Turbidity (NTU)	21FLSEAS60SEAS130	13-Feb-84	3-Apr-12	269	2.33	0.23	54

2.2.5 Shell Creek HBMP

The technical analyses completed for development of the Lower Peace River and Shell Creek Minimum Flows (SWFWMD 2010) included data from the City of Punta Gorda's HBMP which began in 1991 and continues to present day (Figure 2-9). Constituents sampled monthly include salinity, temperature, and dissolved oxygen; at a subset of sampling stations lab-analyzed constituents such chlorophyll, TN and TP are also sampled. For the purpose of this scope of work, only the downstream-most station with laboratory data (Station 9; Table 2-7) was included for analyses; however, all stations are summarized in Appendix D. Any records deleted were output to a record deleted file for tracking which is provided as Appendix E.

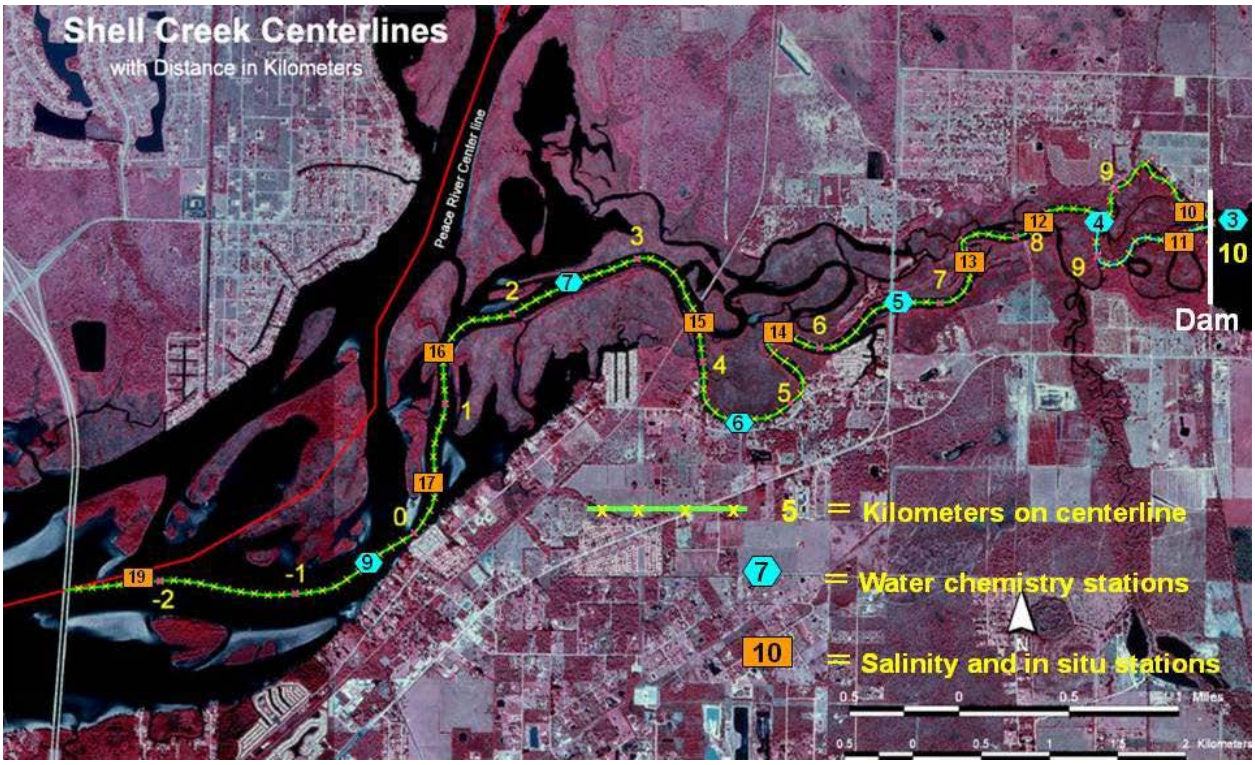


Figure 2-9. City of Punta Gorda Shell Creek HBMP sampling locations (from SWFWMD 2010).

Table 2-7. Summary Statistics for Shell Creek HBMP Station 9						
Constituent	**Start Date**	**End Date**	**N**	**Mean**	**Min**	**Max**
Chlorophyll a (ug/L)	14-Feb-91	5-Dec-18	327	16.40	0.5	441.3
Color (CPU)	14-Feb-91	5-Dec-18	332	132.31	20	500
Bottom Conductivity (us/cm)	14-Feb-91	5-Dec-18	333	18,173	63	53228
Surface Conductivity (us/cm)	14-Feb-91	5-Dec-18	330	14,627	68	50503
Water Column Average Conductivity (us/cm)	14-Feb-91	5-Dec-18	333	16,494	65.625	52458
Bottom Dissolved Oxygen (mg/L)	14-Feb-91	5-Dec-18	332	6.01	0.13	16.18
Surface Dissolved Oxygen (mg/L)	14-Feb-91	5-Dec-18	329	7.01	2.19	17.55
Water Column Average DO (mg/L)	14-Feb-91	5-Dec-18	332	6.48	2.13	16.38
Orthophosphate (mg/L)	14-Feb-91	5-Dec-18	330	0.37	0.081	0.964
Bottom pH (std. units)	14-Feb-91	5-Dec-18	333	7.43	5.5	8.7
Surface pH (std. units)	14-Feb-91	5-Dec-18	331	7.51	5.6	8.7
Water Column Average pH (std. units)	14-Feb-91	5-Dec-18	333	7.46	5.93	8.63
Bottom Salinity (psu)	14-Feb-91	5-Dec-18	333	11.13	0	33.56
Surface Salinity (psu)	14-Feb-91	5-Dec-18	330	8.75	0	31.13
Water Column Average Salinity (psu)	14-Feb-91	5-Dec-18	333	10.00	0	32.8
Silica (mg/L)	14-Feb-91	5-Dec-18	331	3.63	-0.05	13.3
Bottom Temperature (deg C)	14-Feb-91	5-Dec-18	333	25.13	11.9	32.2
Surface Temperature (deg C)	14-Feb-91	5-Dec-18	330	25.79	12.4	33.60
Water Column Average Temperature (deg C)	14-Feb-91	5-Dec-18	333	25.39	12.3	32.28
Total Nitrogen (mg/L)	14-Feb-91	5-Dec-18	324	1.19	0	4.90
Total Phosphorus (mg/L)	14-Feb-91	5-Dec-18	332	0.49	0.1	1.60
Total Suspended Solids (mg/L)	14-Feb-91	5-Dec-18	332	12.89	0.6	101
Turbidity (NTU)	14-Feb-91	5-Dec-18	332	4.78	0.3	40

3.0 DATA SCREENING

This section describes the screening methods utilized to detect potential outliers or possibly erroneous data in the various datasets explored. In addition, descriptive summary statistics are provided for each data source that will inform future analytical efforts.

3.1 DATA QUALIFIERS

Several of the water quality datasets contain at least one column indicating the quality of each data record. Water quality grab sample data include a designated qualifier column containing Florida Department of Environmental Protection (FDEP) Data Qualifier Codes as defined in Florida Administrative Code (FAC 62-160). These qualifiers include "fatal" codes which indicate the data should not be utilized in analyses. Qualified values with codes "V", "F", "N", "O", "Y", "H","J", "K", "Q", and "?"were removed from further analyses and output to a records deleted file for tracking.

3.2 WATER QUALITY DATA SCREENING

Quality control screening checks have been performed on the HBMP water quality data (both field-collected and lab-analyzed) on a monthly basis as new data are collected. These QC steps include plotting monthly data to check for unexpected patterns in the data (increasing DO with increasing depth, decreasing salinity with increasing depth, values out of typical range, etc.). In addition water column profile and lab-analyzed data are subject to robust bivariate regression with plots to identify potential outliers. This process is described below. The data are stored with both the original reported value as well as a column called "UseResult". This column indicates the data value that should be used. In some cases, if a data point is determined to be unreliable/suspect the UseResult value is set to missing. In other cases, a correction in the data is identified from checks of field records or rerunning a sample in the laboratory. In these cases, an updated value is provided in the Use Result column. In either case, a comment is added to the data record explaining the difference. Often, indicated outliers cannot be outright shown to be erroneous and thus the UseResult value is retained as the originally reported value. An example of robust bivariate regression performed on both the raw reported value and the UseResult values is provided below (Figure 3-1). For this screening method, time series plots and robust regression using time as an independent predictor for each analyte (for a given station) are used for each examined dataset. Figure 3-1 provides an example of a time series with outliers determined from robust regression. The robust regression uses the expected value for a point in time (green broken line in Figure 3-1) and compares the deviation from that expected value in time to identify outliers. Note that the top plot in Figure 3-1 displays the data as originally reported while the bottom plot uses the UseResult column above. In this instance, the lab was able to confirm a data entry error (1160 PCU) and the correct value was included in the UseResult column (160 PCU).

The robust regression analysis was implemented using the RobustReg procedure in SAS with the MM-estimation method. Iteratively reweighted least squares successively down weights observations with large residuals until reaching convergence criteria established to evaluate the change in the parameter 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 Ordinary Least Squares (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.

As detailed in Section 2.3.6, IWR data were first pared to data for those longer-term stations with data both pre-and post-2011, spanning the implementation of the Minimum Flows. For these stations, data were plotted to initially identify non-plausible obvious outliers in the data. These outlier data were removed from further analyses and output to a records deleted file for tracking.

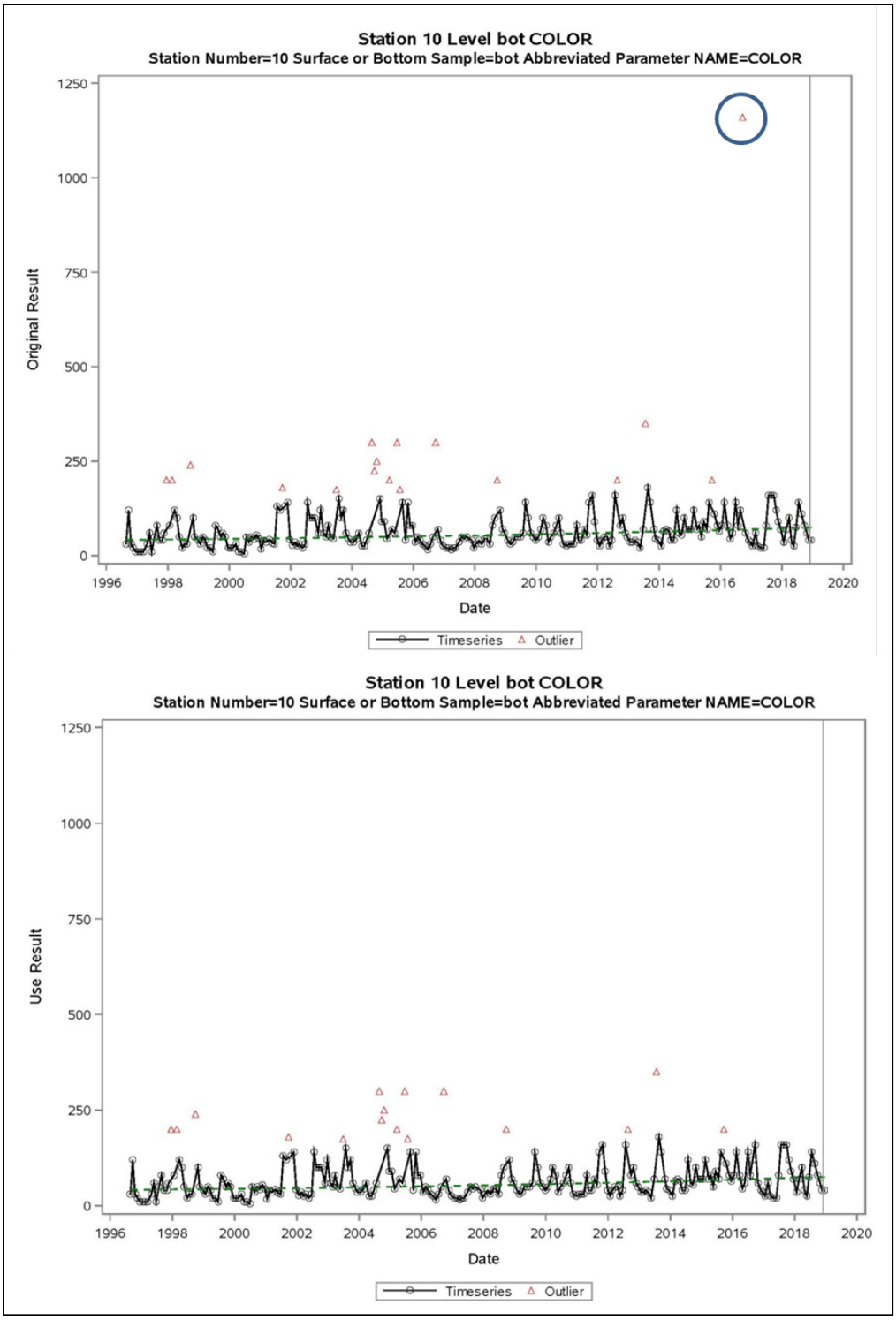


Figure 3-1. Timeseries screening output for Color data collected at station 10 using robust regression. The top graph uses original raw data; bottom plot displays corrected data following QC. Red triangles denote the outliers identified by the robust regression timeseries method. Green broken lines are the predicted values as a function of time resulting from the robust regression output.

3.3 Conceptual Models for Assessing the Relationship between Flows and Downstream Water Quality in Support of Minimum Flows Development

Given the compendium of previous work that has been accomplished in an effort to describe the relationship between flows and water quality, the goal of this project was to identify where alternative analyses may be conducted to derive predictive equations relating flows to water quality in the Lower Peace River that could be used to support the reevaluation of the Minimum Flows.

3.3.1 Previous Modeling Efforts

Several previous efforts have developed empirical models to relate flows to salinity in the estuarine portion of the river; however, the District now has a sophisticated hydrodynamic model to predict salinity as a function of freshwater inflows obviating the need for empirically based statistical models of this relationship. Therefore, this report focused on the relationships between flows and dissolved oxygen, chlorophyll, and nutrients (TN and TP). The relationships reported for these constituents in the 2010 Minimum Flows report were based on data collected until 2004 and the authors concluded that the observed relationships were not sufficient to use in support of Minimum Flows development. The Peace River HBMP program has not developed statistical models to define the flow relationship with these constituents either. The most comprehensive assessment performed to date on the relationship between flows and chlorophyll concentrations in the Lower Peace River was conducted by Atkins in 2014. Atkins attempted several types of empirical modeling approaches to describe this relationship including:

- Multidimensional descriptive plots
- Non-linear parametric models of chlorophyll response
- Automated section routines for linear models with polynomial terms
- Multivariate analysis

The outcome of these modeling efforts was deemed to be, while in many cases statistically significant, of insufficient power to be used to evaluate the effects of withdrawals on estuarine chlorophyll concentrations. The most powerful model was one that could be used to predict the location of the chlorophyll maximum as a function of flows and season; however, the utility of that model was limited by its lack of consequence to evaluating harm of movement of the peak location of chlorophyll to a resource of concern.

3.3.2 Proposed Modeling Efforts

The objective of this modeling effort was to develop statistical models as predictive equations that could be used to estimate the effects of withdrawals on estuarine water quality resources of concern including the constituents mentioned above (i.e. dissolved oxygen, chlorophyll, TN and TP). Given the previous efforts to model these constituents, the goal of the effort was to identify additional analytical techniques that may fill gaps in existing research to develop predictive statistical models for this purpose. These techniques include:

Transformations of the response variable: To date, most of the models applied to relate responses in water quality have used the response variable of interest as a continuous variable either by log transforming the data on the natural scale or by applying non-linear regression techniques since these constituents tend to be nonlinear. Transformations of the response can include many forms such as square root or logarithmic transformations to downweight high values. These models have been of limited utility in describing predictable relationships between flows and chlorophyll (see Atkins 2014). This report focuses on the application of logistic regression (Hosmer and Lemeshow, 1989) which required a binary transformation of the response constituent to be either above or below a specified *a priori* determined threshold value.

We used the State water quality standards (see Table 4-1 in section 4 below) to classify values as either an exceedence or non exceedence and the probability (log odds) of an exceedence were modeled using the general model structure defined as:

$$g_{(y)} = \log\left[\frac{p_{(y)}}{1-p_{(y)}}\right] = \beta_0 + \beta_1 x_1 + \beta_2 x_2$$

where

p(y) = probability of exceedance as a function of x

g(y) = Logit transformation of the odds of exceedance

x1 = flow or antecedent flow condition

x2 = covariate such as temperature or color

ß0, ß1, and ß2 regression coefficients

Evaluation of the logistic regression model fits included calculating a Generalized R^2 statistic and evaluating the predictive capacity of the model using Receiver Operator Curves (ROC) (SAS STAT Users Guide, 1989). The computation of R^2 can be derived by comparing the maximum likelihood estimate of the intercept only model to the maximum likelihood estimate for the specified model

$$R^2 = 1 - [\frac{L(O)}{L(\beta)}]^{2/n}$$

where

L(O) = Maximum likelihood estimate under intercept only model

L(B) = Maximum likelihood estimate under specified model

N = Sample size

The R^2 statistic was then rescaled to conform to the typical inference regarding the coefficient of determination that can reach a maximum value of 1.

Receiver Operator Curves were also used to assess the predictive capacity of the logistic regression models. The ROC curves are a graphical means of assessing the predictive capacity of the logistic regression model to classify observations as being events or non-events. Curves with more area under the curve have better predictive capacity than those with less area under the curve. The ROC curves use three measures of predictive accuracy; sensitivity, specificity and false positive rate. The ROC curves provide a valuable graphical illustration of the relative predictive capacity of the models within each reporting unit.

If the models are of sufficient utility, the effects of withdrawals were estimated by adding back the withdrawals to the flow record and modeling the effects based on this "Reconstructed" record. The logit estimates were transformed into predicted probabilities using the equation.

$$P(y=1|x)=\frac{\exp(\log it)}{1+\exp(\log it)}$$

The change in predicted probability of exceedance as well as the frequency of predicted exceedances was then compared between the observed and reconstructed time series. To account for the uncertainty of the estimate of the mean probability of exceedance, 95% confidence intervals would be generated and the prediction of observed and reconstructed flows would be compared in the context of the confidence intervals of the observed condition.

Semi- and nonparametric approaches: novel statistical methods include the thin plate spline, generalized additive, and multivariate adaptive regression models among others which allow for the explanatory variables to take any form, thereby relaxing assumptions of traditional linear models. We investigated the utility of the thin plate spline model to construct surface response models of the constituent of interest in response to variation in inflows.

A statistical model was developed to estimate the concentration of chlorophyll *a* and dissolved oxygen concentrations as a function of freshwater inflows and spatial location within the river using the routine "grab sample" water quality data collection effort of the HBMP. The general model formulation was expressed as:

$$Y_i = f(x_i) + e_i$$

Where:

Y_i = Chlorophyll a concentration at time of sample

$f(x_i)$ = Unknown function of location in the river and inflow at time of sample

e_i = prediction error

The applied non-parametric, additive model made no assumption that the function $f(x_i)$ follows any particular distribution as described in the documentation for the TPSPLINE procedure using Statistical Analysis System (SAS) software (SAS Stat Users Guide,V9.4 : 2016).

Conditional Inference Trees: Decision (or Conditional Inference) Trees are a class of methods used for data mining and predictive analysis (Rokach and Maimon 2008). Statistically based decision trees have been successfully used to assist in the development of numeric nutrient criteria for lakes in Michigan (Soranno et al., 2008). Conditional inference trees (Hothorn et al., 2006) and ensemble models such as RandomForest (Brieman 2001) are types of decision trees used to identify a set of classifiers that maximize the difference in the response distribution using binary splits of the data. We conducted decision tree analysis using the R software language (R Core Development Team 2012) and specifically using the PARTY (Hothorn et al., 2006) and RandomForest (Brieman 2001) packages in R. These packages recursively partition the response variable into binary splits ("nodes") based on statistical relationships among a host of predictors. The partitioning process iteratively searches for a point in the predictor variable that maximizes the difference in the distribution between two groups of response data. 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 2 groups. Once the first split is made, the process continues the subsequent nodes conditional on the first split. Hence, the term "conditional inference" or "conditional probability analysis" that has been popularized recently by the EPA as a potential approach for establishing numeric nutrient criteria. This class of decision tree is applicable to all kinds of regression problems, including nominal, ordinal, numeric, censored as well as multivariate response variables and arbitrary measurement scales of the covariates (Rokach and Maimon 2008).

The objective of the analysis was to identify the most influential predictor variables that discriminate the response endpoint under evaluation. An advantage of the conditional inference tree approach is that the routine identifies thresholds indicative of potential nonlinear changes in the response distribution instead of assuming a linear relationship among constituents. Decision tress also identify a specific threshold value for each significant predictor that corresponds to the change in the response distribution conditional on the previous split. A disadvantage of conditional inference trees is that they are among a group of "weak classifiers" indicating that the results from a single run of the model may not result in a model that serves well as a predictive tool. The Random Forest implementation of the conditional inference tree is an attempt to overcome this issue by using bootstrap aggregation of 1000's of model runs based on random subsets of the data. An advantage of this approach is its ability to identify the most influential variables that have increased robustness in generalizing to new data. However, the disadvantage of this approach is that the model results are not directly attributable to specific threshold values of the predictor that maximizes the difference between two groups. We used both techniques as exploratory methods to identify conditional relationships among a host of constituents that might inform more formal statistical analysis on stressor-response relationships based on a certain subset of environmental conditions.

4.0 RESULTS OF EXPLORATORY DATA ANALYSIS

This section describes descriptive evaluations of the data as they related to efforts to define the effects of flow reductions on estuarine water quality within the context of a establishing Minimum Flow for the LPR. Analyses include a comparison of the data collected prior to the Minimum Flow implementation relative to data collected after the implementation and comparisons of water quality data to State water quality standards.

4.1 PRE- AND POST-MINIMUM FLOWS COMPARISON

At the Districts request, time series plots were constructed for each water quality constituent at each station for each of the data sets examined. These time series plots contain a reference line demarcating January 1, 2011 to indicate the period pre- and post-Minimum Flows implementation. Timeseries plots were constructed for the laboratory constituents sampled at the 5 fixed HBMP stations (Figure 4-1 - Figure 4-5) to provide a simple comparisons of water quality prior to and after implementation of the minimum flow rule. Box and whisker plots of the distributions of the in situ (e.g. dissolved oxygen and conductivity) data collected at the 16 fixed stations throughout the river were constructed to display this comparison in order to fit on a single (Figure 4-6 - Figure 4-8). The graphical output for all constituents is supplied in the appendices for fixed stations (Appendix F), moving stations (Appendix G), the IWR database (Appendix H) and the Shell Creek data (Appendix I). These graphical examinations are intended to be descriptive in nature and do not account for potential confounding variables (i.e. differences in rainfall or flows) but there was no clear evidence from this evaluation that the Minimum Flows implementation has had a deleterious effect on any of the water quality constituents examined.

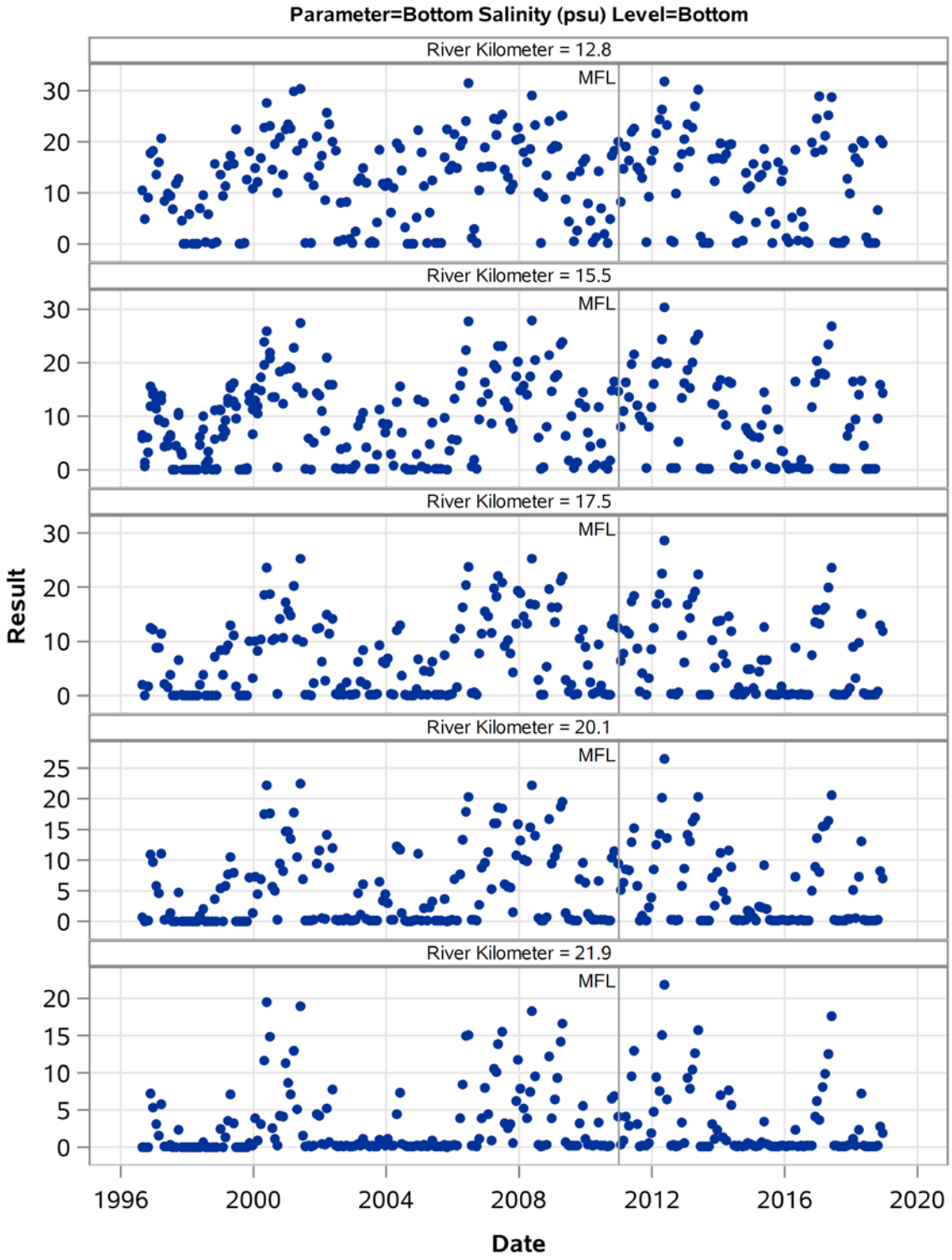


Figure 4-1. Time series plots of bottom salinity collected at each Peace River HBMP station over the period of record. Vertical line forms a break between pre- and post-Minimum Flows implementation

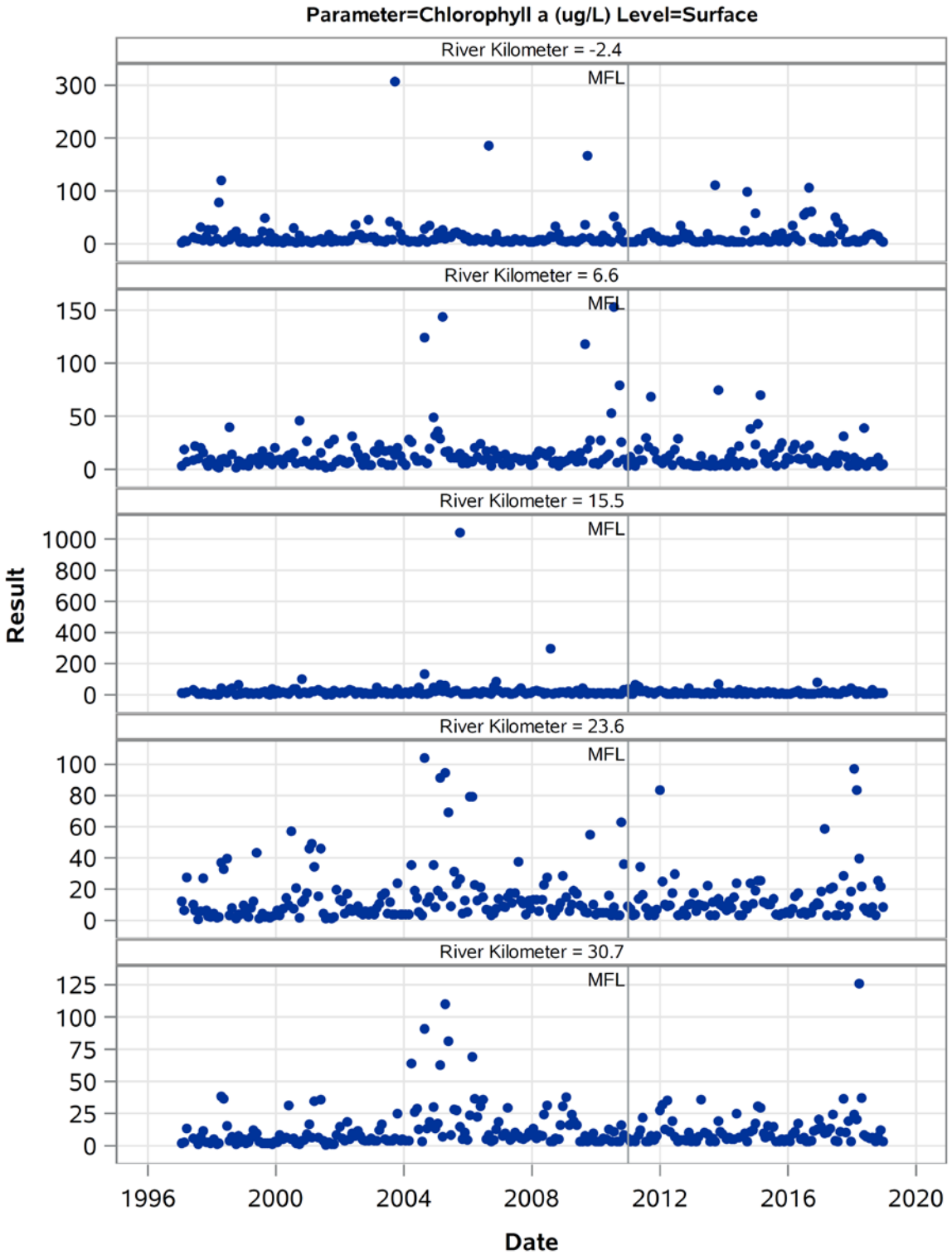


Figure 4-2. Time series plots of chlorophyll collected at each Peace River HBMP station over the period of record. Vertical line forms a break between pre- and post-Minimum Flows implementation

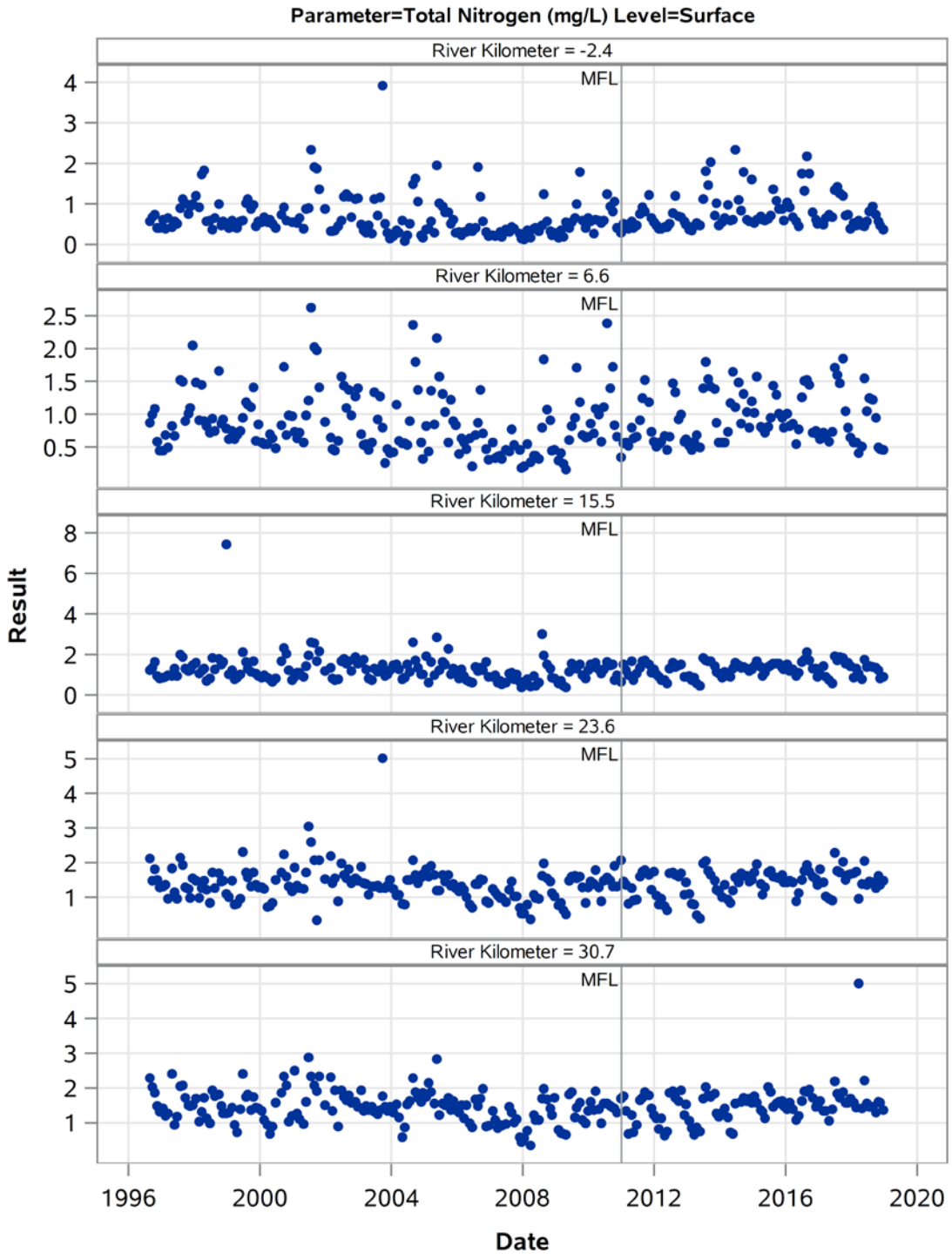


Figure 4-3. Time series plots of total nitrogen collected at each Peace River HBMP station over the period of record. Vertical line forms a break between pre- and post-Minimum Flows implementation

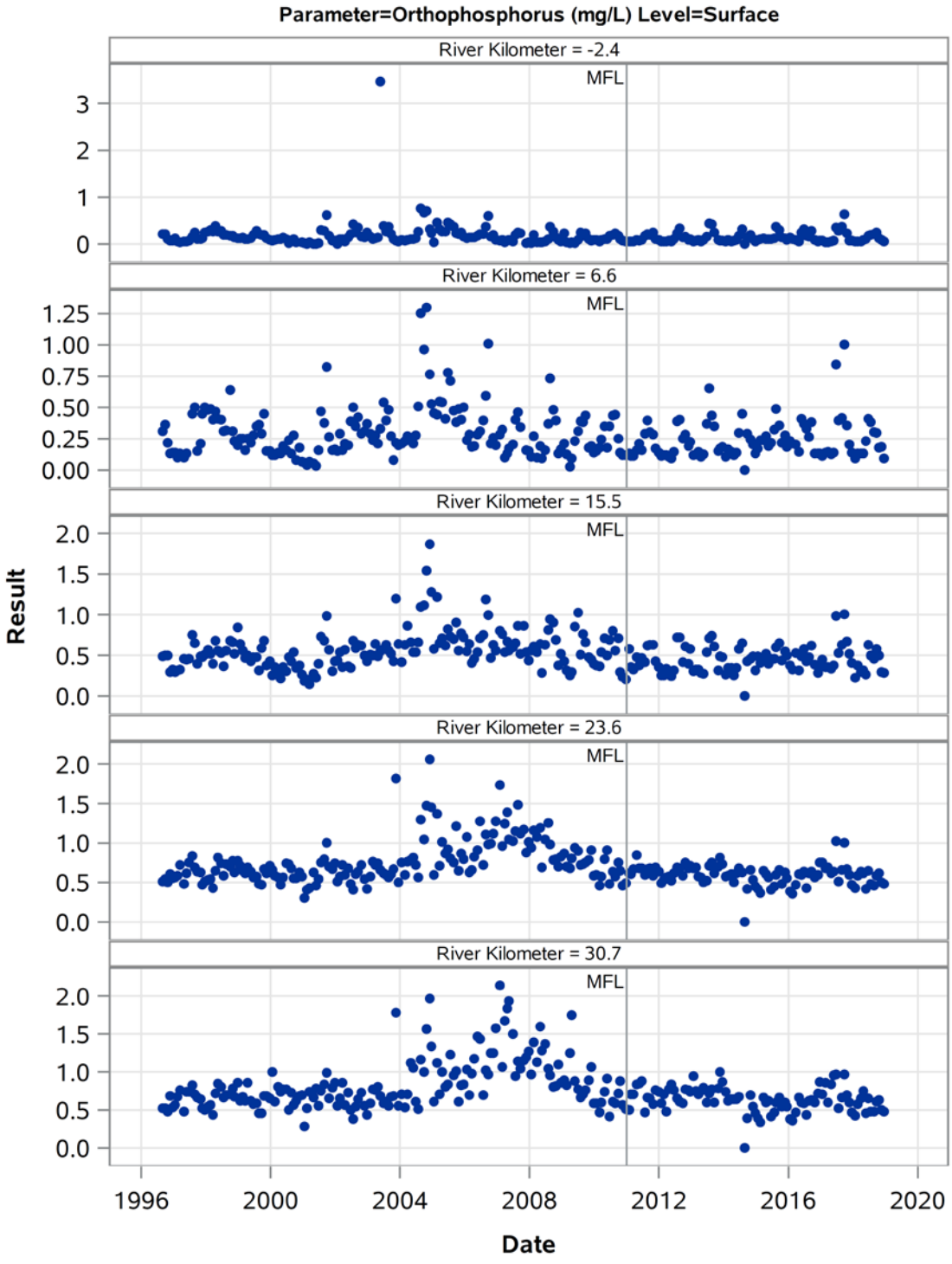


Figure 4-4. Time series plots of orthophosphorus collected at each Peace River HBMP station over the period of record. Vertical line forms a break between pre- and post-Minimum Flows implementation

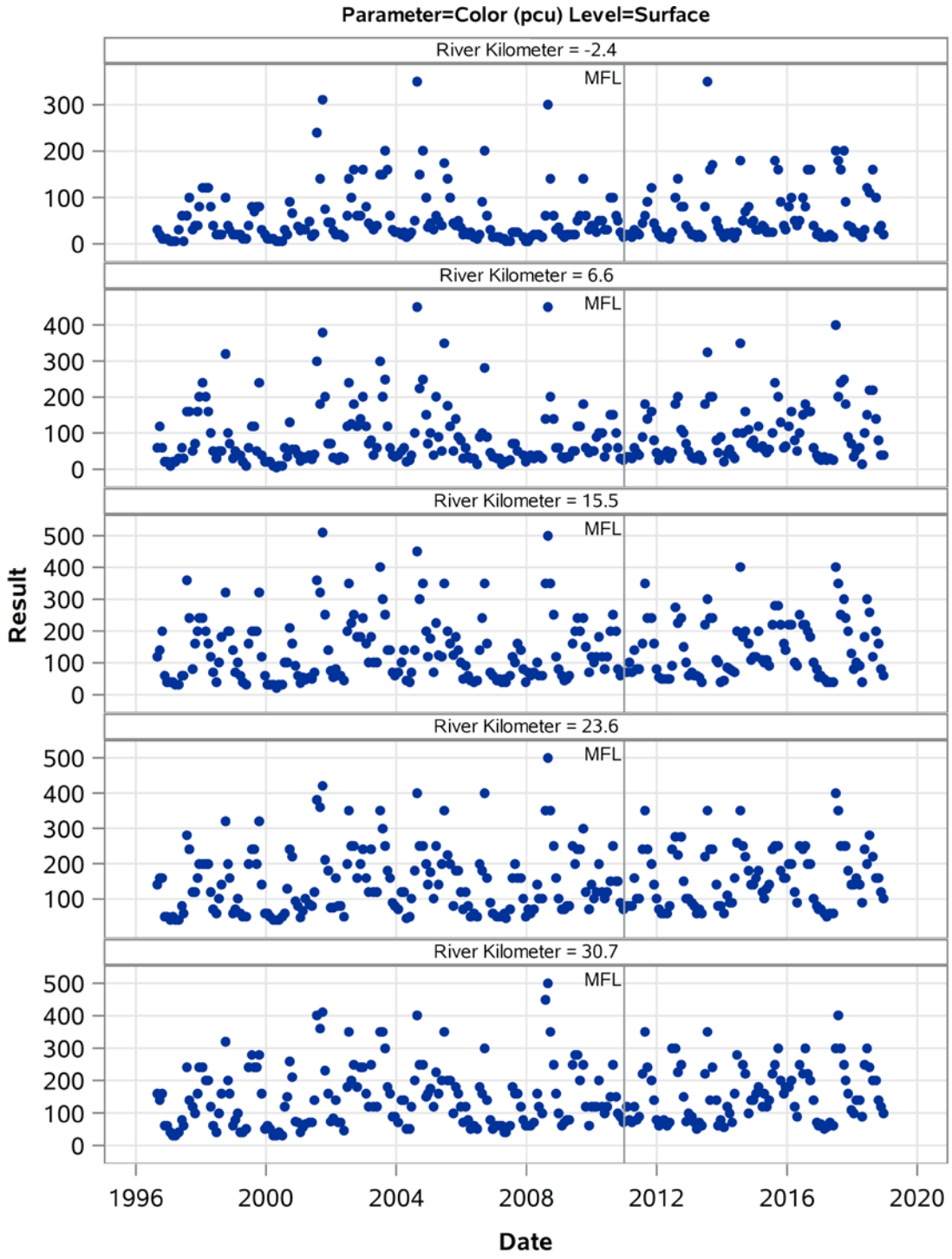


Figure 4-5. Time series plots of color collected at each Peace River HBMP station over the period of record. Vertical line forms a break between pre- and post-Minimum Flows implementation

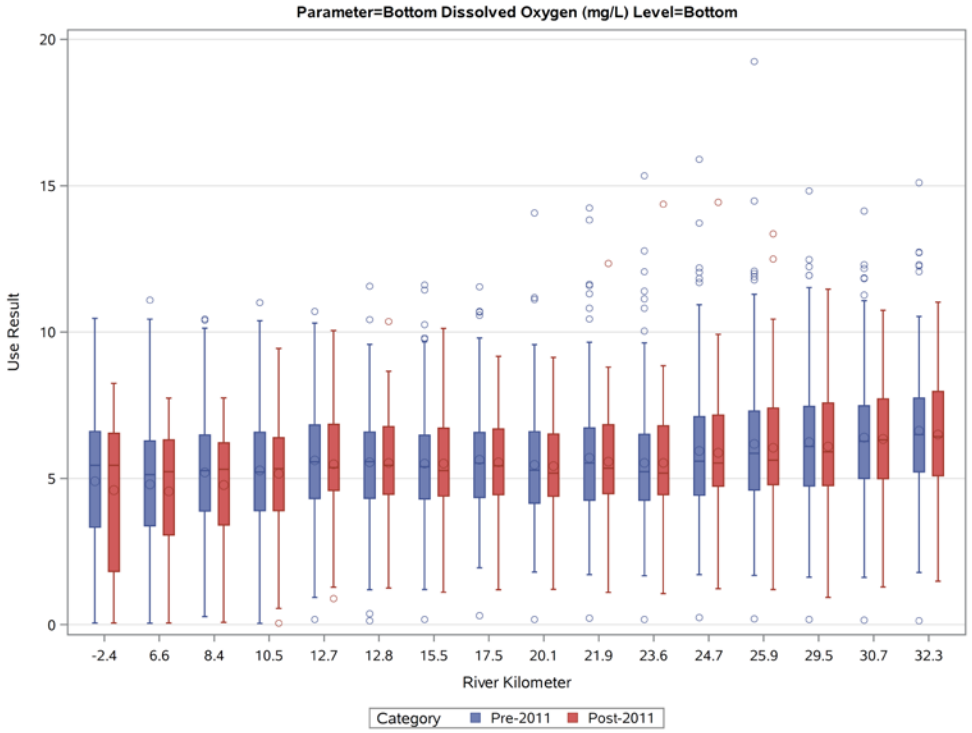


Figure 4-6. Box and Whisker plots of data distributions pre and post Minimum Flows implementation.

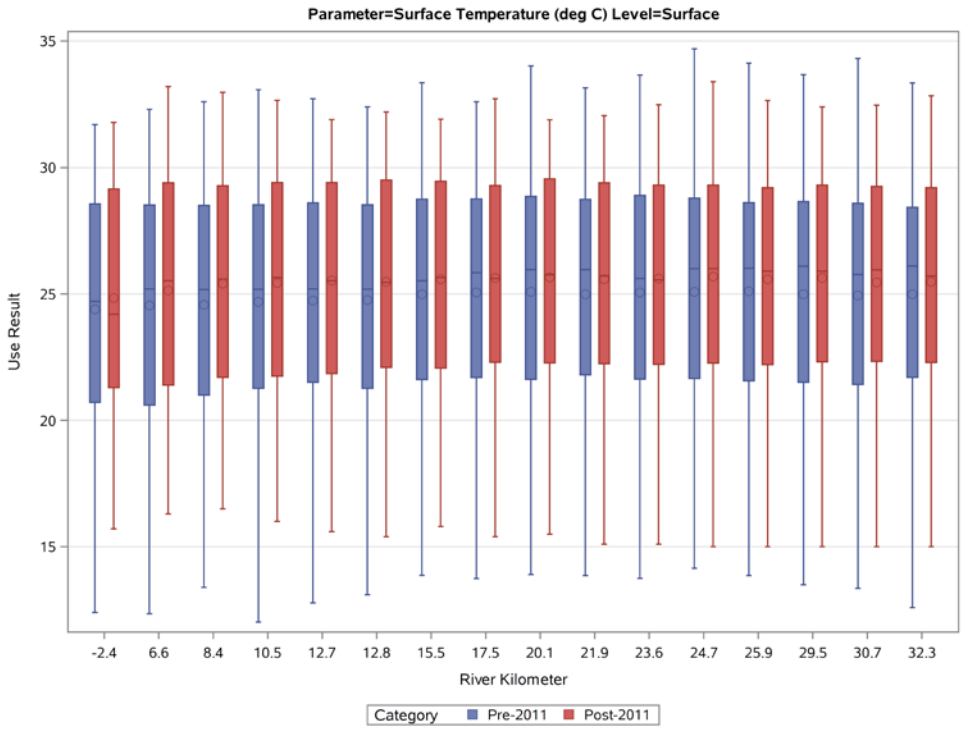


Figure 4-7. Box and Whisker plots of data distributions pre and post Minimum Flows implementation.

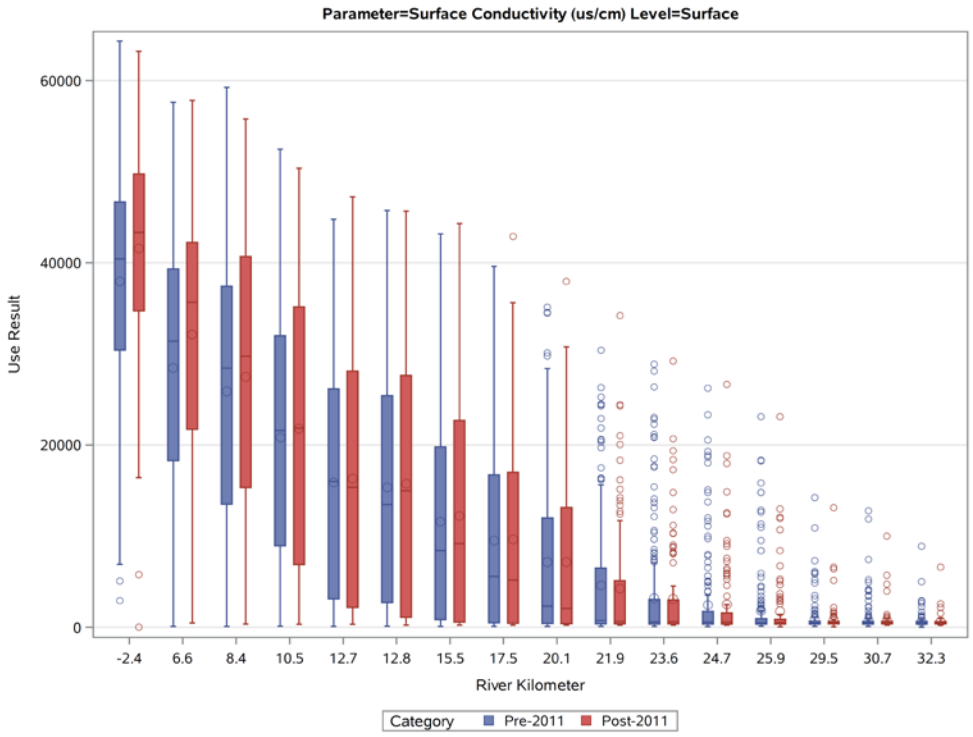


Figure 4-8. Box and Whisker plots of data distributions pre and post Minimum Flows implementation.

4.2 Comparison of Water Quality Data to State Criteria

The Authority's HBMP fixed-station sampling data were utilized to assess water quality in the Lower Peace River relative to existing State of Florida water quality standards (62-302 F.A.C.). Data collected between 1997 and 2018 were analyzed for total nitrogen (TN), total phosphorus (TP), chlorophyll (CHL) and dissolved oxygen percent saturation (DO). In addition, because TP data are not currently reported at all HBMP stations, orthophosphate (OP) data were also analyzed relative to the TP criteria. Data were evaluated on a WBID, Estuarine Nutrient Region (ENR) and station level. Criteria vary by waterbody identifier (WBID) as detailed in Table 4-1. The study area includes two ENRs: Charlotte Harbor Proper and Tidal Peace River as indicated in Table 4-1.

Table 4-1. Applicable water quality criteria for HBMP fixed stations in the Lower Peace River. ENR = Estuarine Nutrient Region, AGM = Annual Geometric Mean.

WBID	Class	RKm	Profile	Grab	ENR	TN Criterion (mg/L)	TP Criterion (mg/L)	CHL Criterion (ug/L)	DO Saturation Criterion
2065A	2	-2.4	X	X	Charlotte Harbor Proper	Annual Mean 0.67	Annual Mean 0.19	Annual Mean 6.1	No more than 10% of daily averages < 42%
2056A	3M	6.6	X	X	Tidal Peace River	Annual Mean 1.08	Annual Mean 0.5	Annual Mean 12.6	
2056B	3M	8.4	X						
		10.5	X						
		12.7	X						
		12.8	X						
2056C2	3M	15.5	X	X					
		17.5	X						
2056C1	3M	20.1	X			NA	NA	AGM 11.0	
		21.9	X						
1623A	3F	23.6	X	X		AGM 1.65	AGM 0.49	AGM 20.0	No more than 10% of daily averages < 38%
		24.7	X			AGM 1.65			
		25.9	X			AGM 1.65			
		29.5	X			AGM 1.65			
		30.7	X	X		AGM 1.65			
1623B	3F	31.7	X			AGM 1.65			

4.2.1 NNC Evaluation of Chlorophyll and Nutrients

Data collected from the ENRs were assessed according to estuary-specific numeric nutrient criteria (NNC; F.A.C. 62-302.532). These criteria are applied to annual arithmetic averages derived from monthly arithmetic means. No lab-analyzed water quality data in class 3M waterbodies are collected outside of the ENRs as part of the Authority's HBMP. In addition to the estuarine WBIDs, the Authority's HBMP collects samples from freshwater (Class 3F and Class 1) waterbodies. Only one of these WBIDs (i.e. 1623A) includes lab-analyzed water quality samples. The data collected from the stations occurring in WBID 1623A were assessed relative to the West Central Florida water quality standards expressed in F.A.C. 62-302, as indicated in Table 4-1. Following the examination of HBMP Fixed-Station data, data from the Impaired Water Rule (IWR) database, Run 56, were evaluated against the criteria in Table 4-1 using WBID- and ENR-based comparisons.

Estuarine Nutrient Region NNC Evaluation

Data collected in the Tidal Peace River ENR were compared to listed criteria in the ENR as a whole (combined WBIDs) using multiple independent datasets. Annual arithmetic averages, derived from monthly averages, for the ENR were calculated and plotted for each year with reference lines indicating the applicable NNC (Figure 4-9). These comparisons reveal that water quality in the Tidal Peace River ENR have exceeded applicable TN and CHL criteria multiple times in recent years. Similar results were indicated by the IWR Run 56 data (Figure 4-10), however, when corrected chlorophyll data are assessed, there are fewer exceedances of the criteria than when uncorrected chlorophyll data are assessed. The HBMP data are reported as uncorrected chlorophyll.

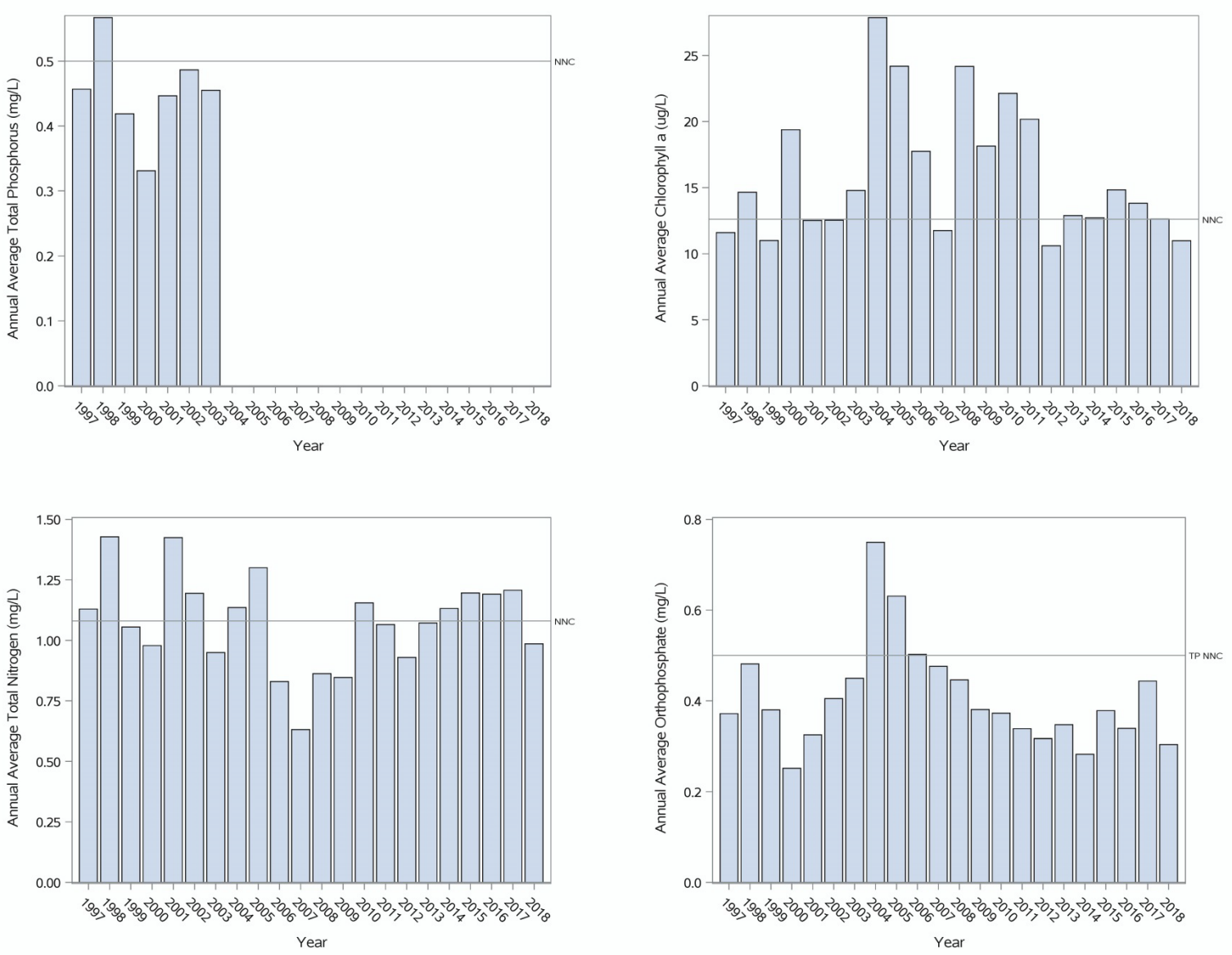


Figure 4-9. Tidal Peace River ENR HBMP fixed-station data annual averages relative to applicable NNC.

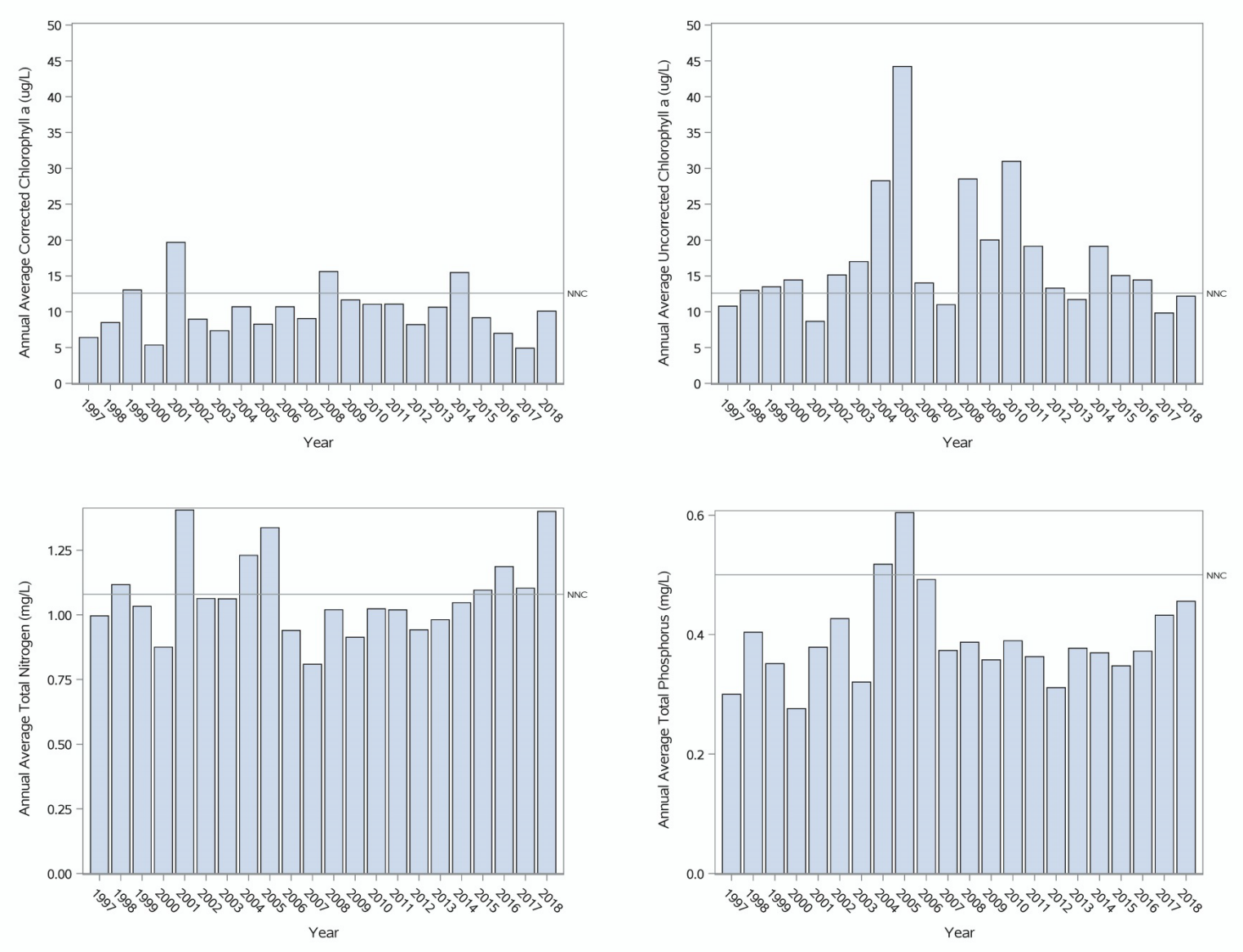


Figure 4-10. Tidal Peace River ENR IWR Run 56 data annual averages relative to applicable NNC.

WBID NNC Evaluations

All WBIDs in the study region were assessed individually against applicable criteria (Table 4-1). The annual values from the HBMP data are displayed relative to applicable criteria in Figure 4-11 through Figure 4-14. These figures are ordered from the most downstream WBID (Charlotte Harbor) to the most upstream (freshwater). Figure 4-13 illustrates that a greater number of TN exceedances occur in the more upstream end (WBID 2056C2) of the Tidal Peace River ENR than the more downstream end (WBID 2056A). There were no TN or CHL exceedances in the freshwater upstream WBID 1623A; however TP exceedances were prevalent over the period of record. These patterns were also evident in the IWR Run 56 data (Figure 4-15 through Figure 4-19).

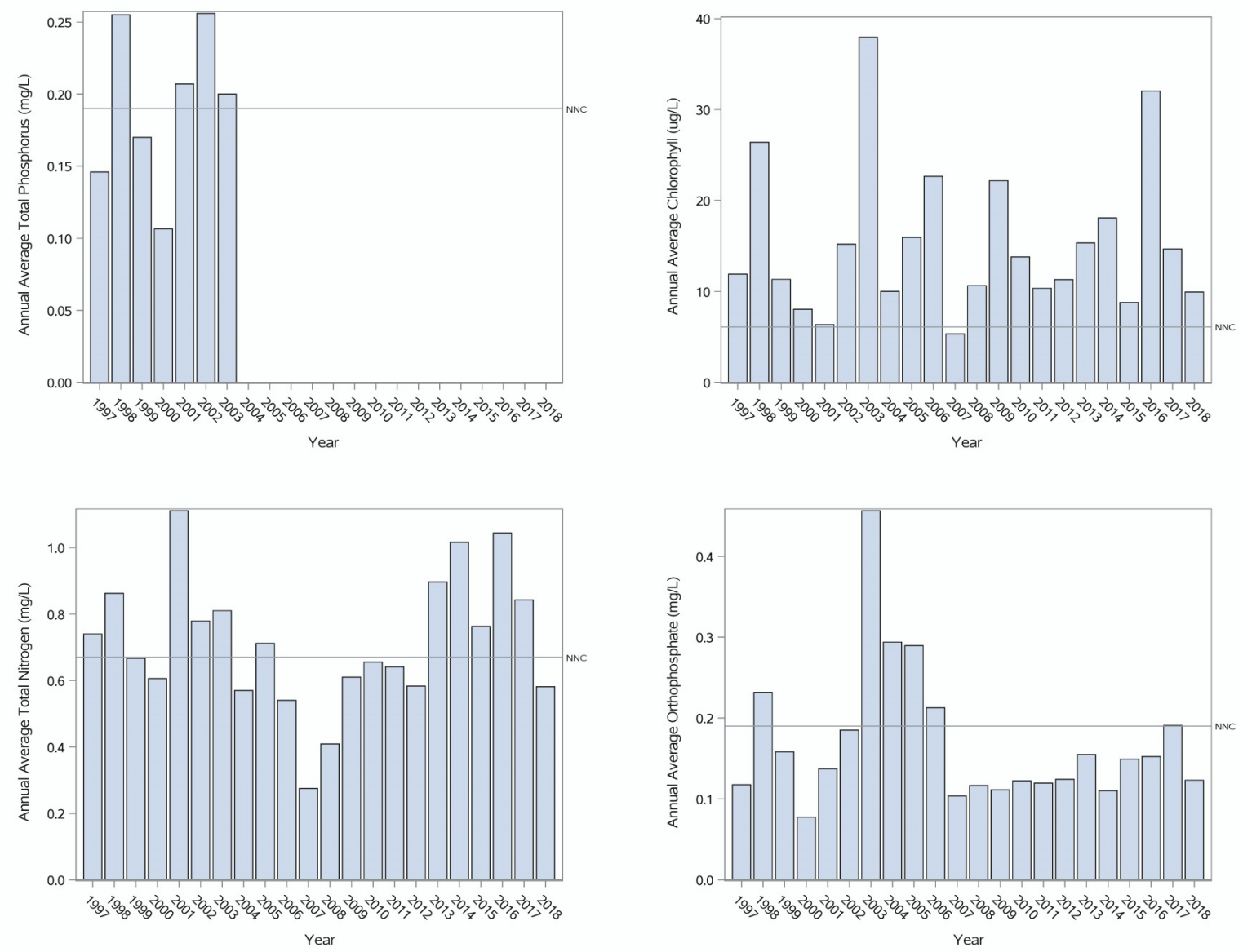


Figure 4-11. Charlotte Harbor Proper (WBID 2065A) HBMP fixed-station data annual averages relative to applicable NNC.

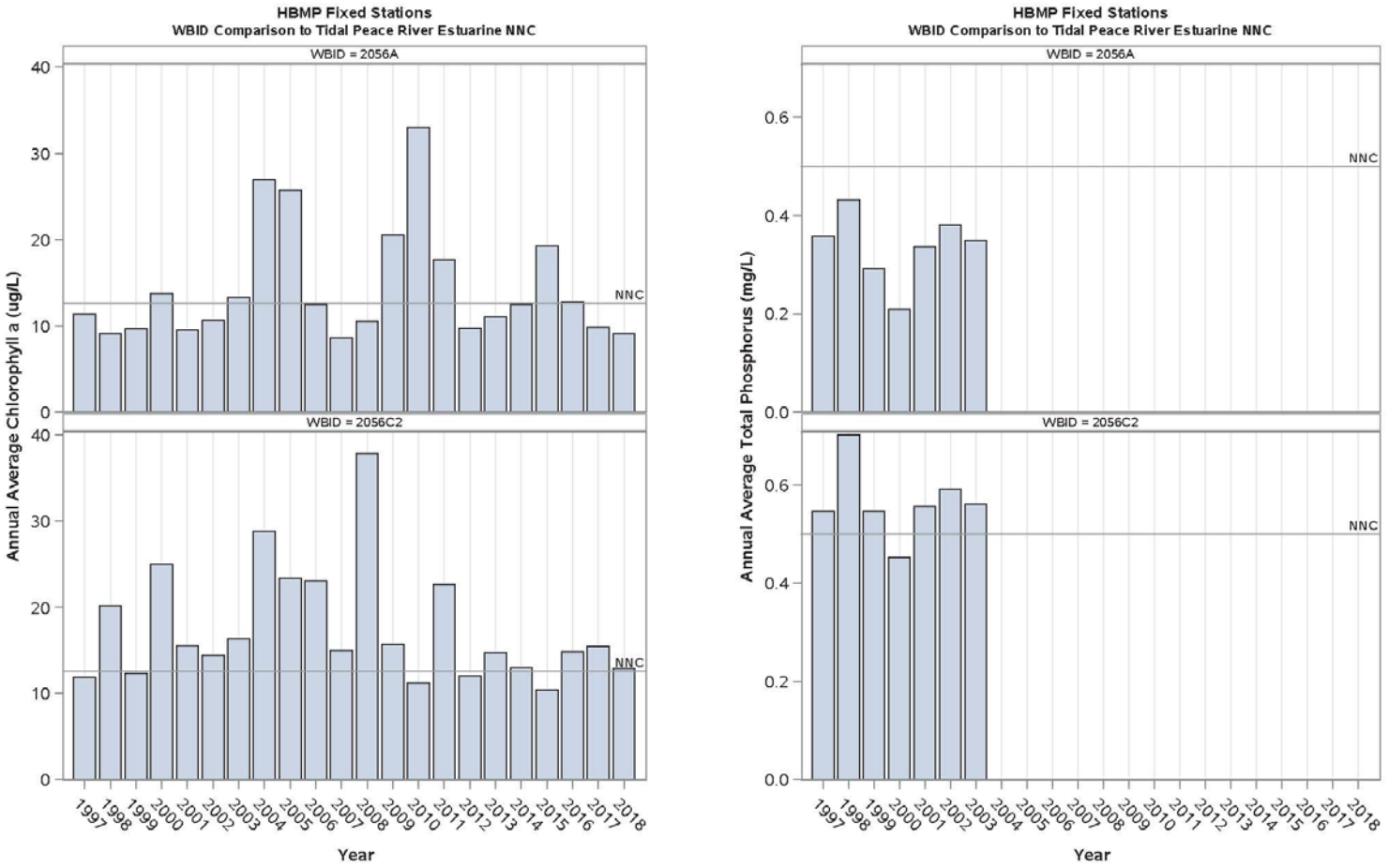


Figure 4-12. WBID-specific comparisons of fixed-station HBMP data in the Tidal Peace River ENR to applicable NNC for chlorophyll and total phosphorus.

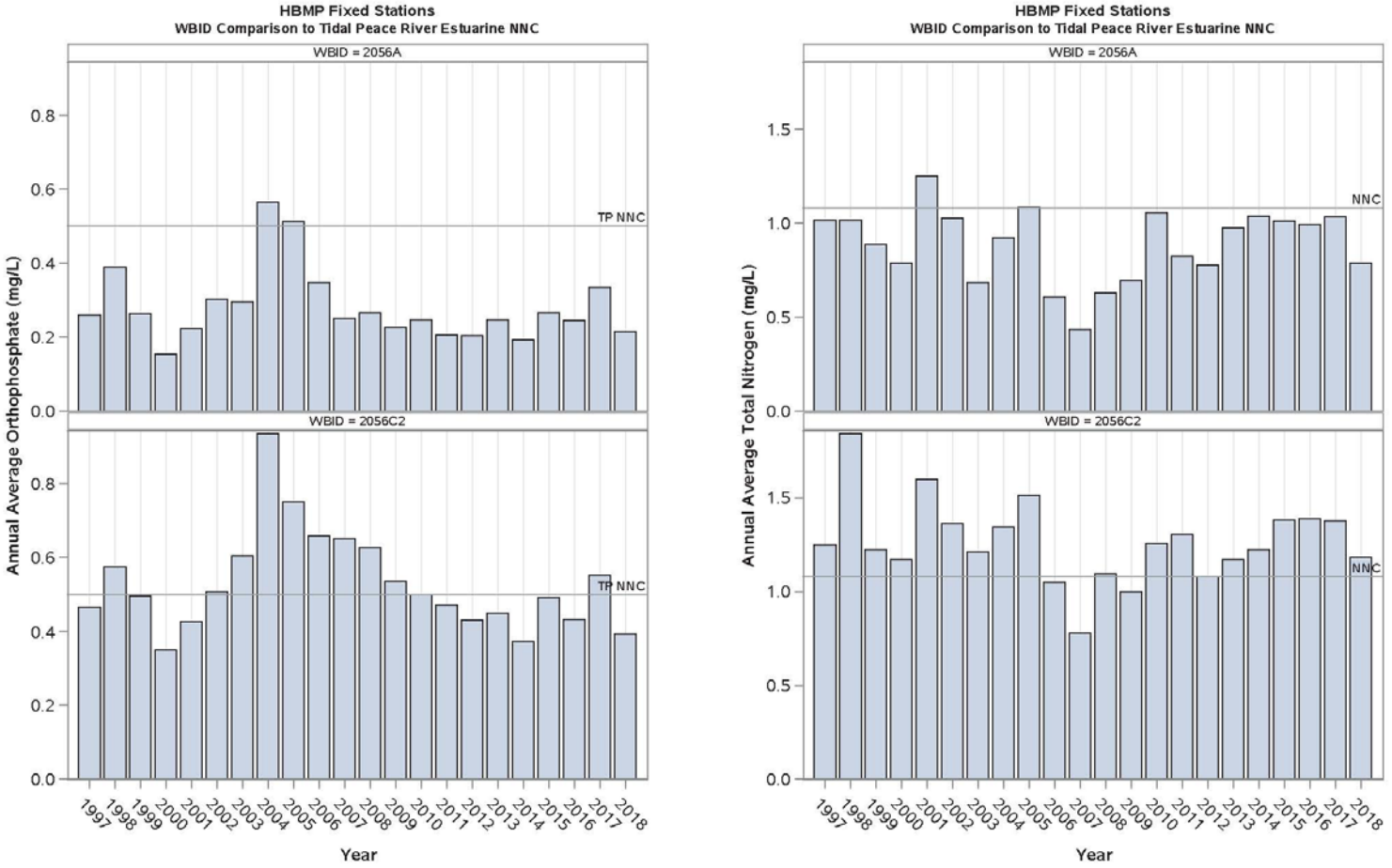


Figure 4-13. WBID-specific comparisons of fixed-station HBMP data in the Tidal Peace River ENR to applicable NNC for orthophosphate and total nitrogen.

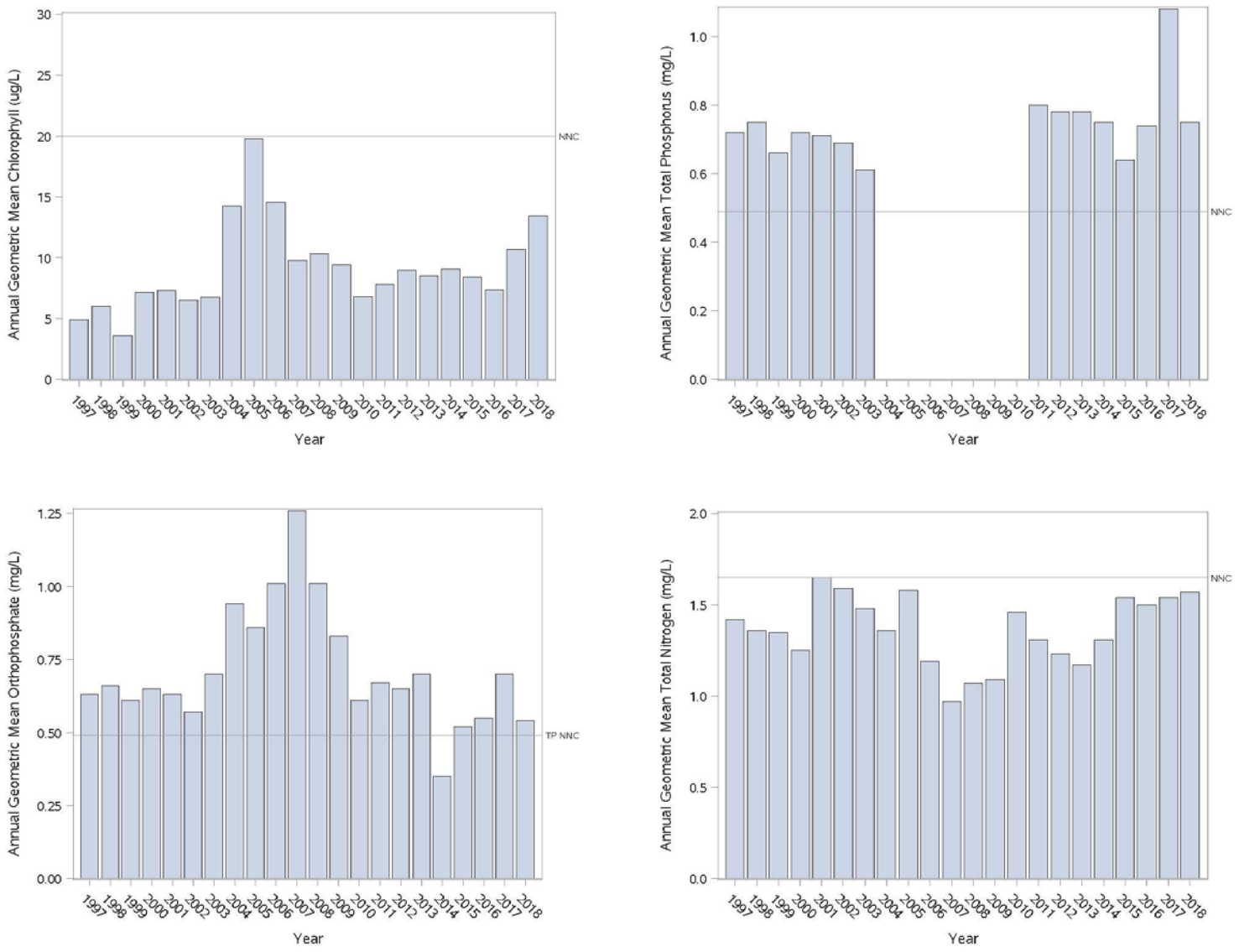


Figure 4-14. Comparison of fixed-station data collected in the freshwater WBID 1623A to applicable criteria.

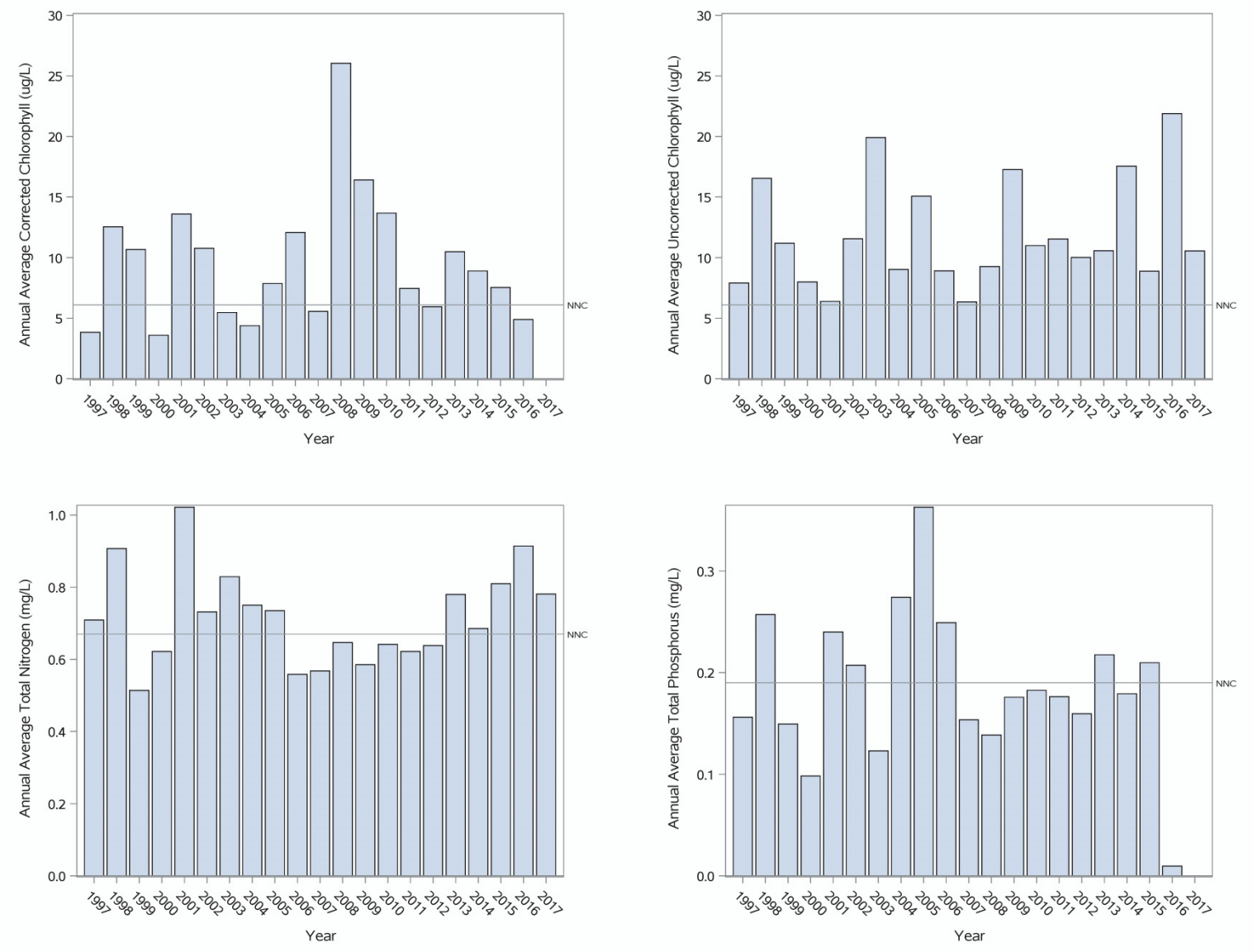


Figure 4-15. Comparison of IWR Run 56 data from Charlotte Harbor Proper (WBID 2065A) to applicable NNC.

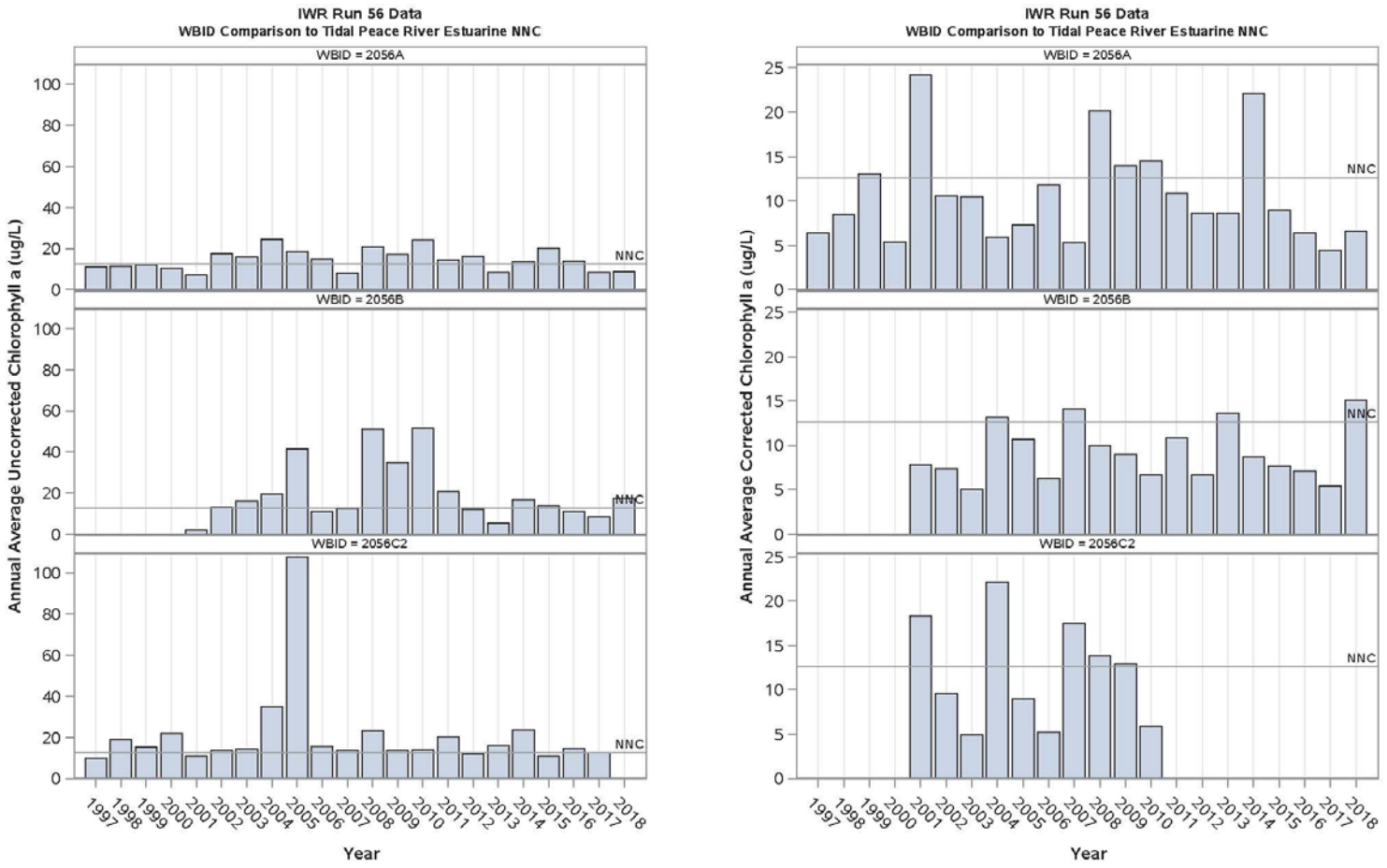


Figure 4-16. Comparison of IWR Run 56 data from WBIDs in the Tidal Peace River ENR to applicable NNC for chlorophyll (uncorrected and corrected).

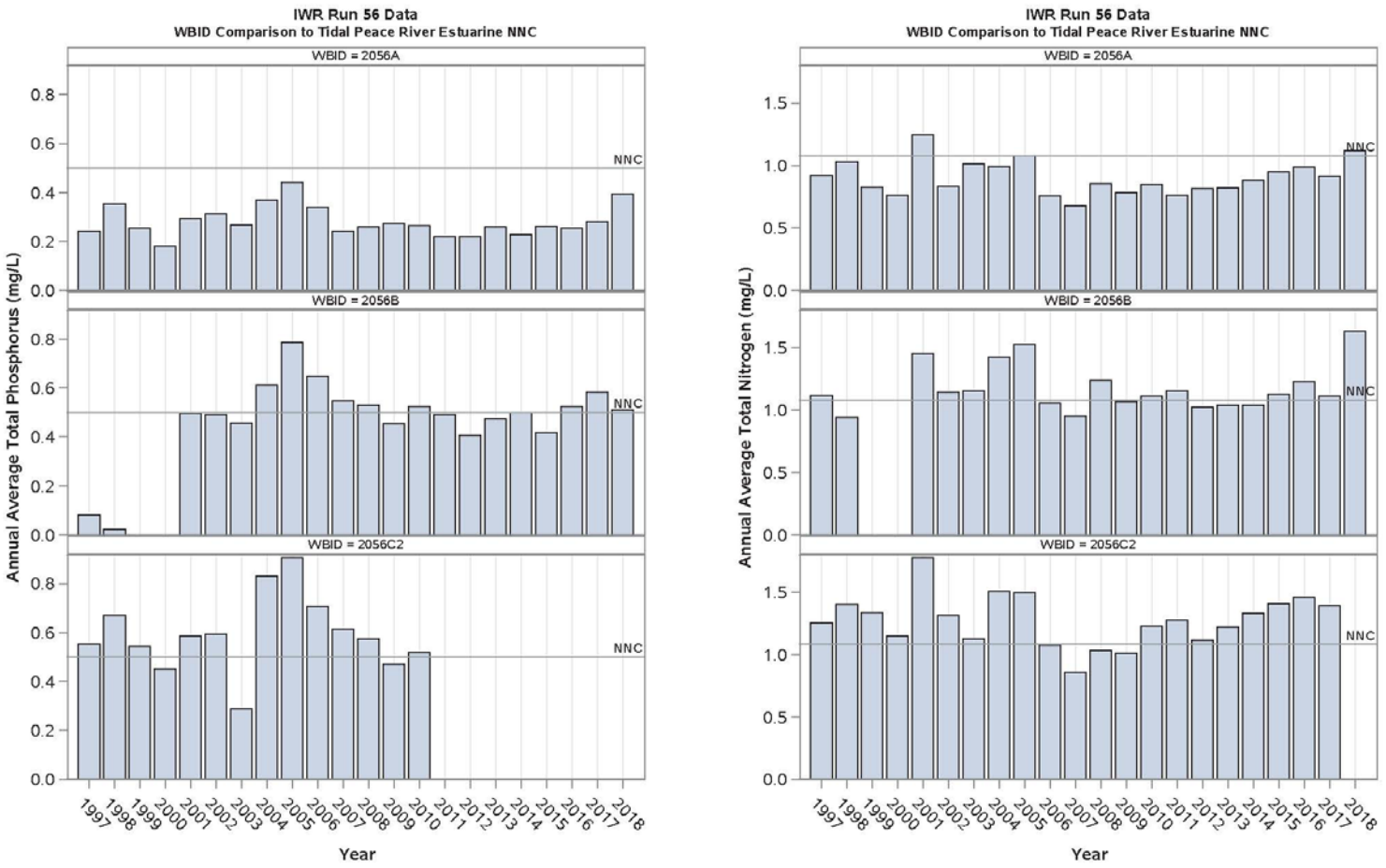


Figure 4-17. Comparison of IWR Run 56 data from WBIDs in the Tidal Peace River ENR to applicable NNC for total phosphorus and total nitrogen.

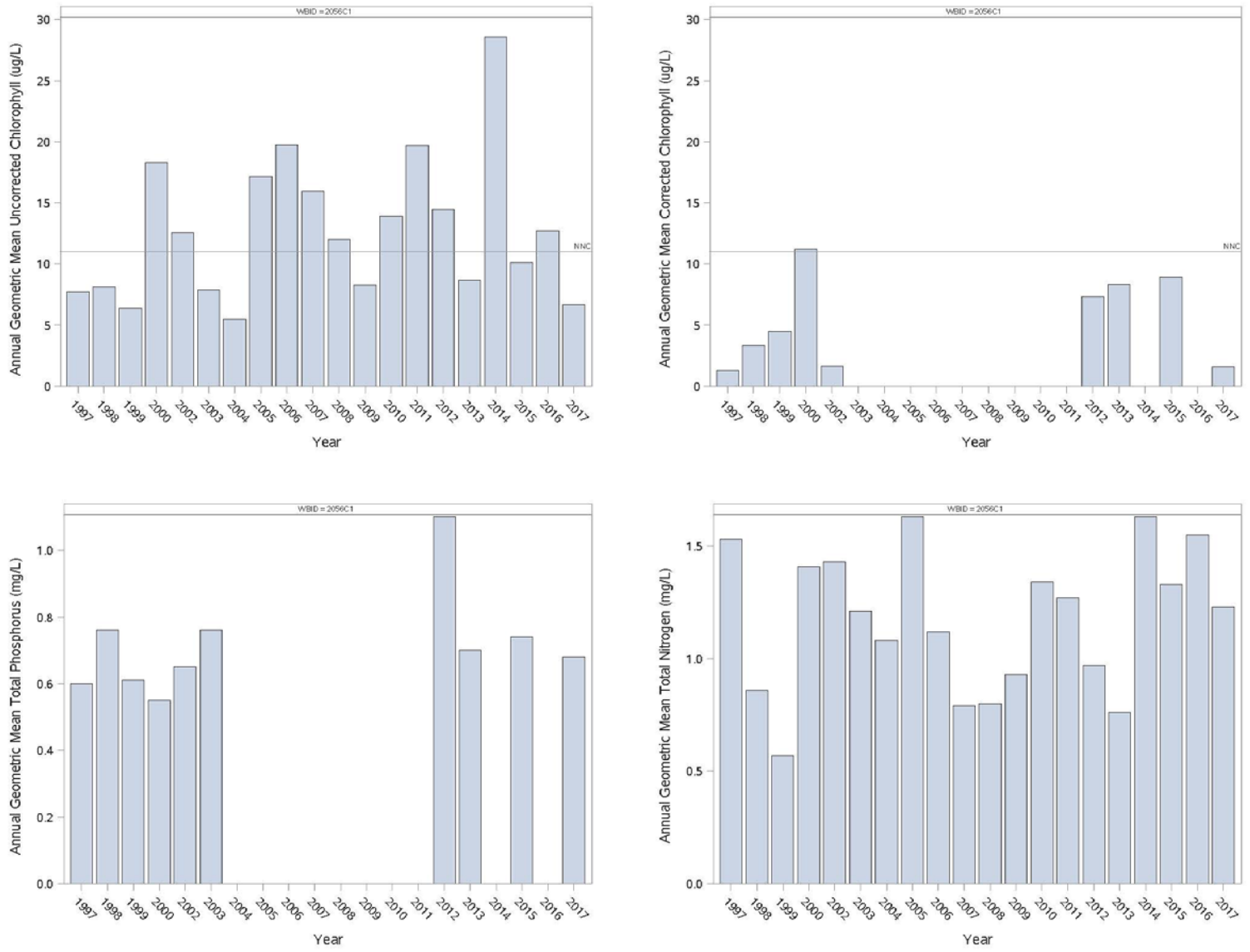


Figure 4-18. Comparison of IWR Run 56 data from WBIDs upstream of the ENR (WBID 2056C1).

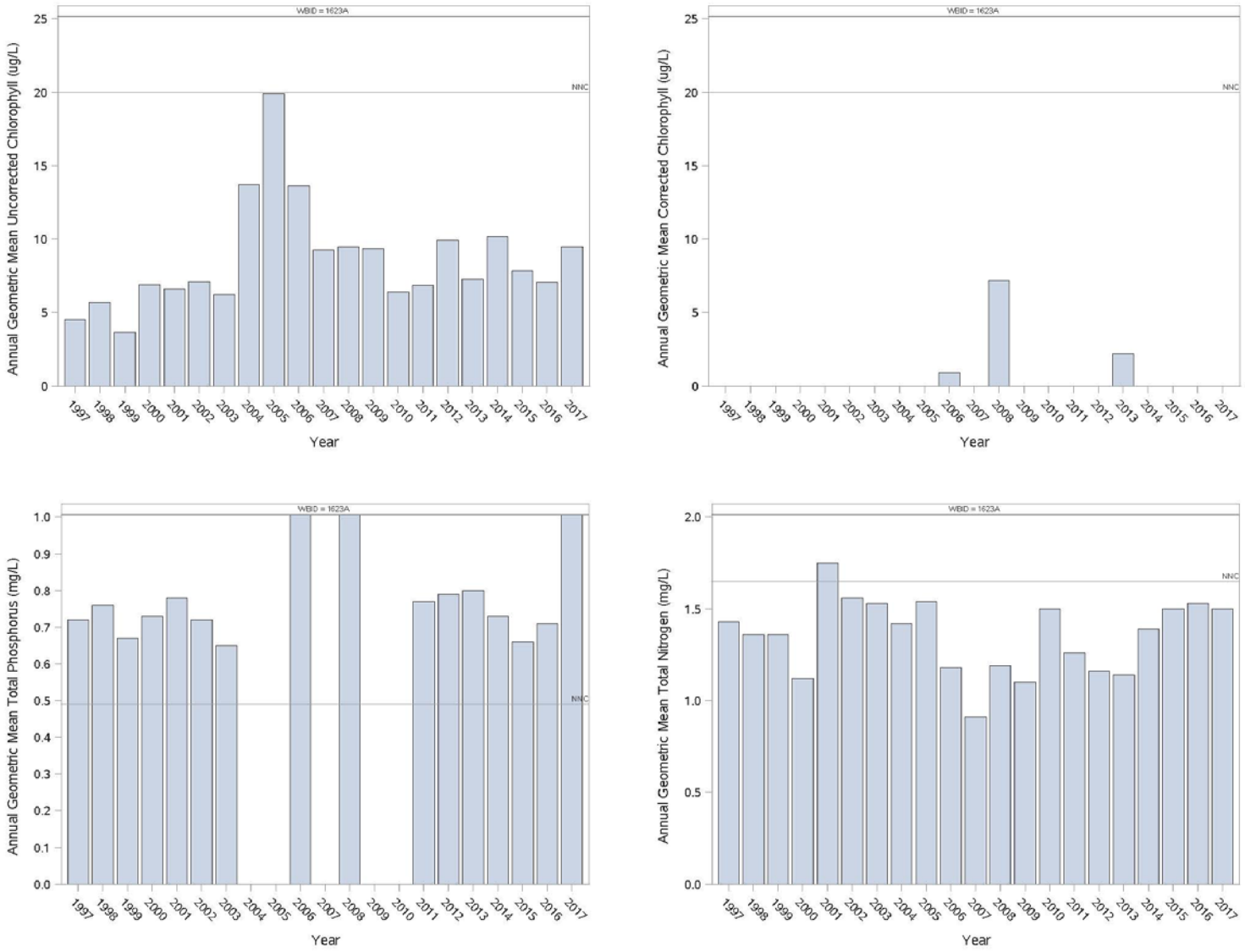


Figure 4-19. Comparison of IWR Run 56 data from WBIDs upstream of the ENR (WBID 1623A).

HBMP Fixed-Station NNC Comparison

Most WBIDs were represented by a single fixed HBMP sampling station for laboratory constituents with the exception of WBID 1623A that has two separate grab sampling stations. The exceedance frequency for each constituent's criterion has been calculated over the period of record (1997-2018) as well as annually and monthly. The resulting plots are displayed in Figure 4-20 through Figure 4-24. TP concentrations data were not reported after 2003 for all stations except for station 30.7 for which TP reporting was reinitiated sampling in 2011.

The highest exceedence frequencies for chlorophyll for the overall period occurred in Charlotte Harbor (Rkm -2.4) which is outside the river mouth. This was also true when examining the annual and monthly plots. Chlorophyll exceedances in Charlotte Harbor tended to occur at a greater frequency in the wetter, summer period while the middle section of the river (i.e. Rkm 15.5) had a higher exceedence frequency in the late winter and spring when flows are reduced. Exceedances throughout much of the river upstream of the Harbor were relatively consistent across months except in the most upstream station where the highest exceedence frequencies for that station occurred in the spring when flows are typically at that annual minimum.

Total nitrogen exceedances were greatest in the middle reach of the river (Rkm 15.5) for the overall period. Similar inter-annual patterns were observed across all five stations. Total nitrogen concentrations had the greatest frequency of exceedance in the summer Wet season, however, several stations suggest a small secondary peak in exceedance frequency in the late winter/early spring months which typically coincides with and increased rainfall pattern in the winter associated with the passage of cold fronts.

The frequency of orthophosphate exceedances was compared to the total phosphorus criterion value, with the majority of OP concentrations exceeding the TP criterion. OP exceedences followed a spatial gradient, with exceedences over the period of record increasing with distance upstream. Orthophosphate exceedances appeared to decline in the middle of the period of record, but Figure 4-21 suggests a gradual increase has been occurring in recent years, particularly at the more downstream stations. It should be noted that the ENR TP criteria is lower than the upstream freshwater criterion and is also calculated as an arithmetic rather geometric average. The frequency of orthophosphate exceedances was greater in the downstream stretches of the lower river during the summer Wet season.

Percentage of samples exceeding NNC criteria over POR

Obs	Parameter	dis	WBID	CLASS	totexceed	count	percexceed
1	CHLA	-2.4	2065A	2	155	261	59.4%
2	CHLA	6.6	2056A	3M	86	262	32.8%
3	CHLA	15.5	2056C2	3M	113	261	43.3%
4	CHLA	23.6	1623A	3F	52	263	19.8%
5	CHLA	30.7	1623A	3F	43	262	16.4%
6	OP	-2.4	2065A	2	80	262	30.5%
7	OP	6.6	2056A	3M	20	262	7.6%
8	OP	15.5	2056C2	3M	130	264	49.2%
9	OP	23.6	1623A	3F	229	264	86.7%
10	OP	30.7	1623A	3F	235	263	89.4%
11	TN	-2.4	2065A	2	94	259	36.3%
12	TN	6.6	2056A	3M	73	259	28.2%
13	TN	15.5	2056C2	3M	158	261	60.5%
14	TN	23.6	1623A	3F	58	261	22.2%
15	TN	30.7	1623A	3F	80	260	30.8%
16	TP	-2.4	2065A	2	25	70	35.7%
17	TP	6.6	2056A	3M	10	70	14.3%
18	TP	15.5	2056C2	3M	42	71	59.2%
19	TP	23.6	1623A	3F	68	71	95.8%
20	TP	30.7	1623A	3F	162	165	98.2%

Figure 4-20. Frequency of criterion exceedance for each of the 5 fixed-station sampling stations with grab samples between 1997 and 2018.

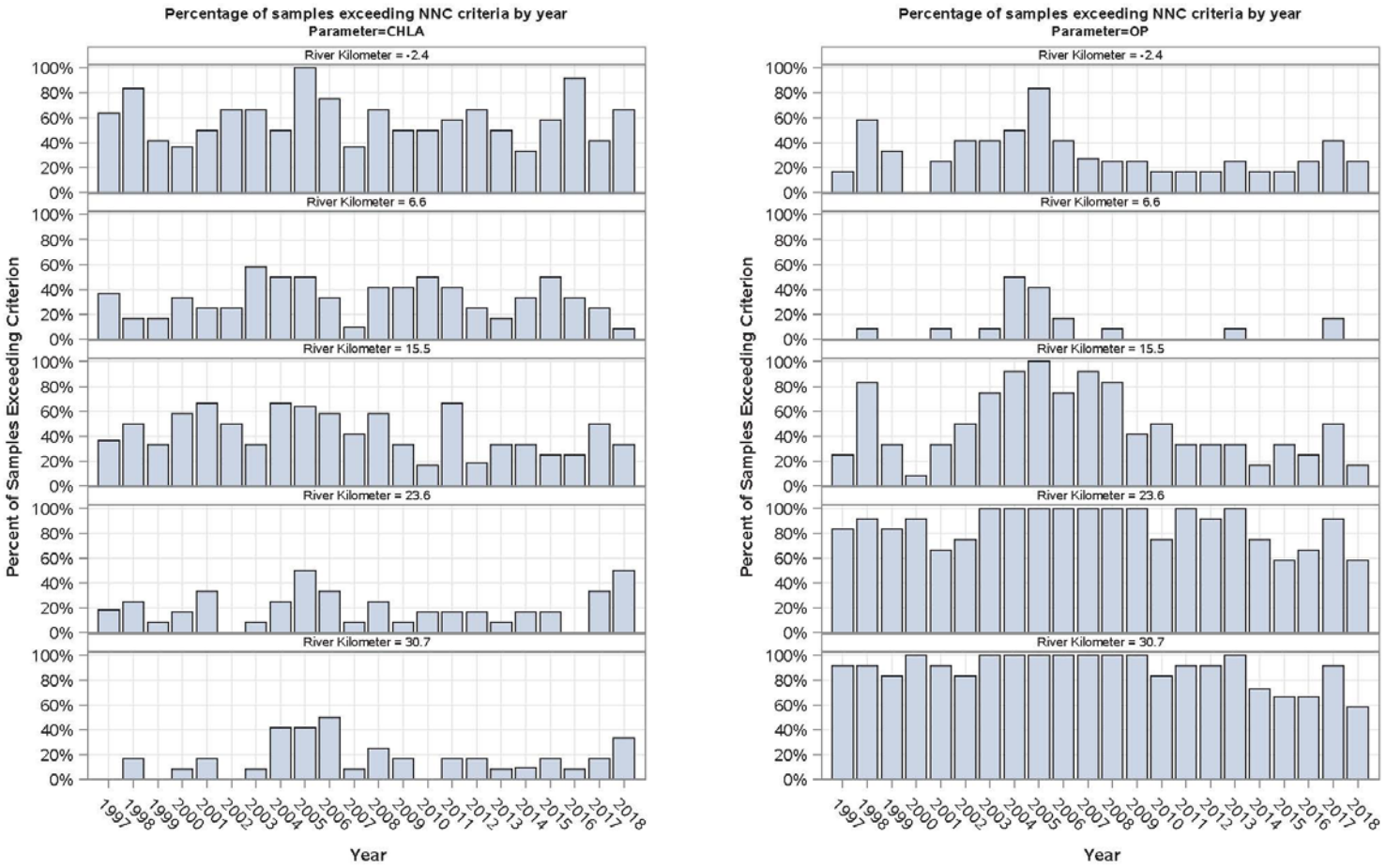


Figure 4-21. Uncorrected Chlorophyll (left) and orthophosphorus (right) annual criterion exceedance frequency for each of the 5 fixed-station sampling stations with grab samples for each year in the period of record. Missing bars represent years with no exceedences.

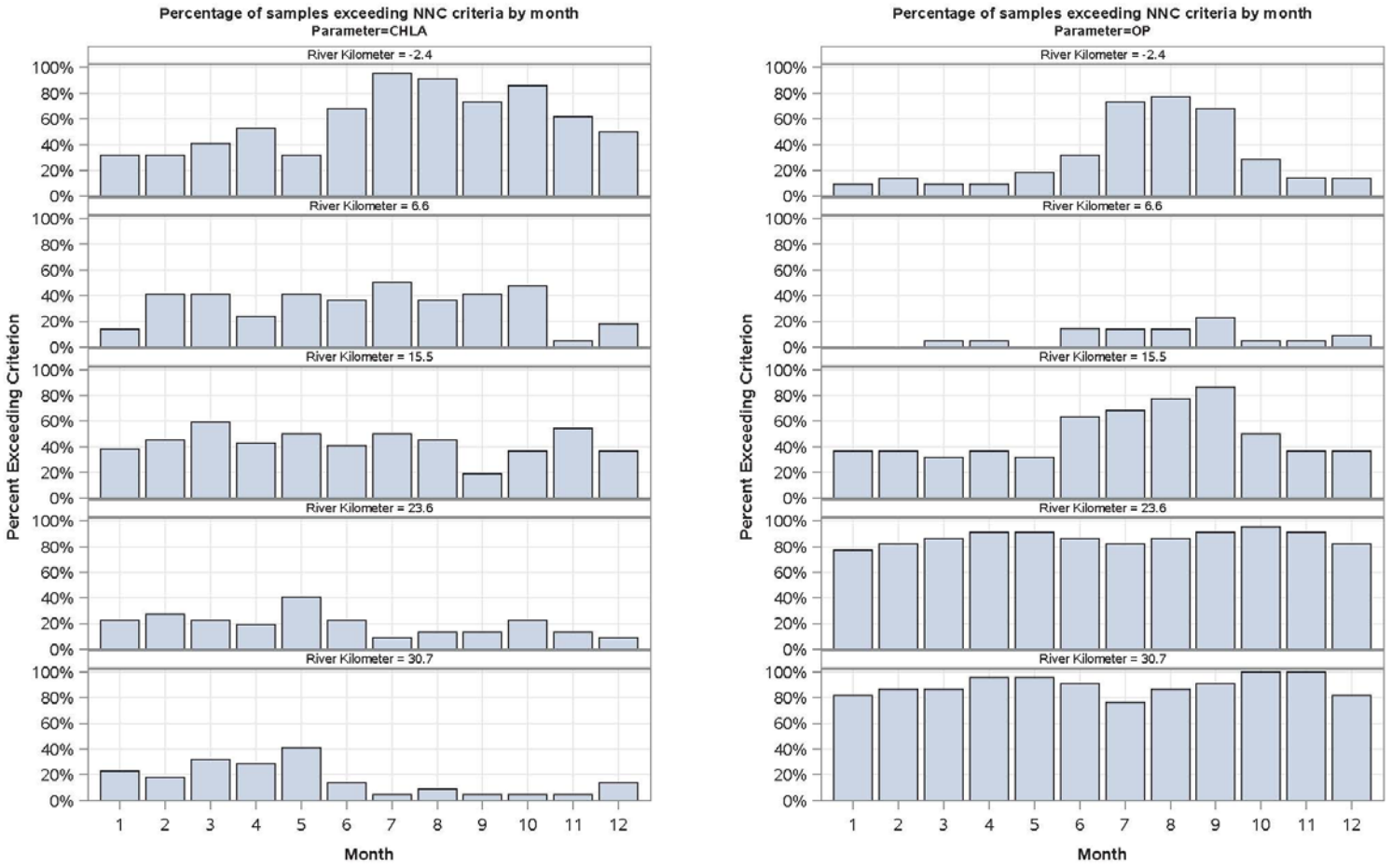


Figure 4-22. Uncorrected Chlorophyll (left) and orthophosphorus (right) seasonal exceedence frequency for each of the 5 fixed-station sampling stations with grab samples for each month over the period of record.

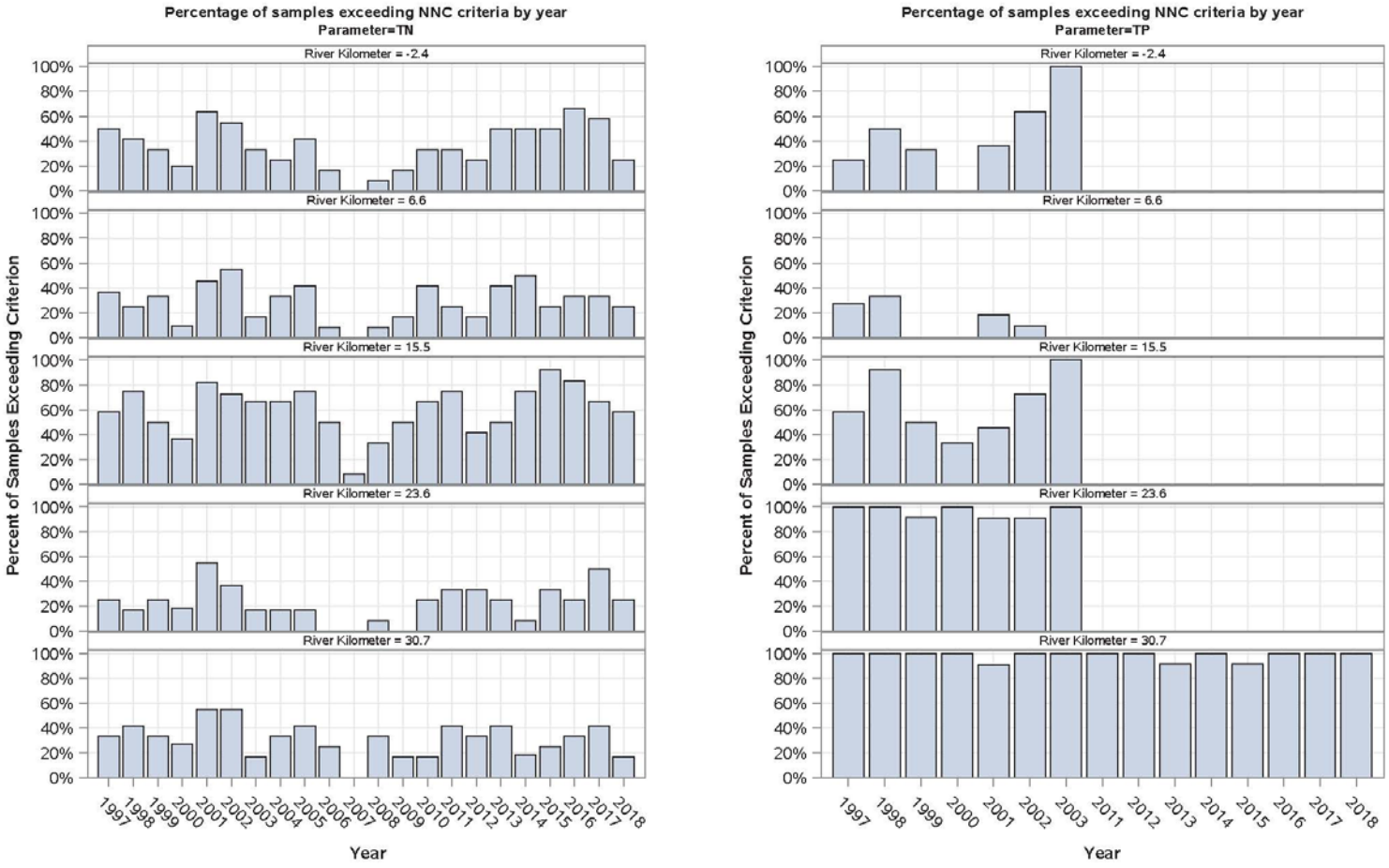


Figure 4-23 Total nitrogen (left) and total phosphorus (right) annual criterion exceedance frequency for each of the 5 fixed-station sampling stations with grab samples for each year in the period of record. Missing bars represent years with no exceedences.

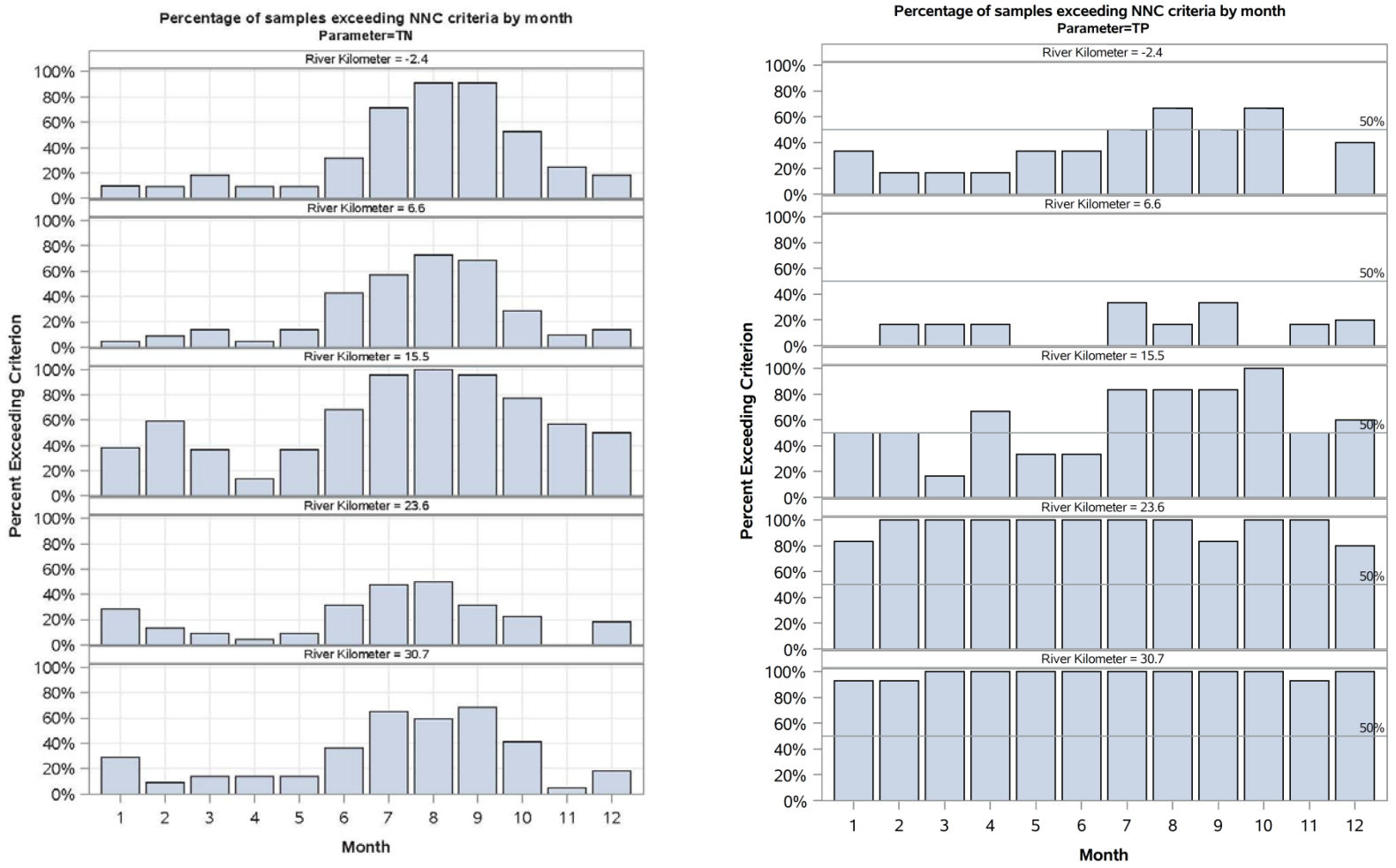


Figure 4-24. Frequency of criterion exceedance for each of the 5 fixed-station sampling stations with grab samples for each month over the period of record. Missing bars represent years with no exceedences.

4.2.2 Evaluation of Dissolved Oxygen Saturation

HBMP fixed-station data were also evaluated for exceedances of established dissolved oxygen saturation criteria (Table 4-1). Exceedances were evaluated for the Tidal Peace River ENR as a whole, as well as for each individual WBID in the study region, and independently for each of the 16 individual stations (Table 1) by applying the criteria based on the standards for fresh water (i.e.. dissolved oxygen saturation $<38\%$) or marine (i.e. dissolved oxygen saturation $<42\%$) as appropriate. While the criteria are based on water column average dissolved oxygen saturation, we also investigated exceedances of the same standards using surface and bottom dissolved oxygen saturation for reference. Note that missing bars in the plots represent years with no exceedences.

ENR Dissolved Oxygen Saturation Evaluation

Table 4-2 displays the exceedence frequency and percent exceedence for the Tidal Peace River ENR, over the period of record. Water column average dissolved oxygen saturation values over the period of record in the ENR did not exceed the criterion limit of 10% overall. Surface DO saturation values had a very low exceedance frequency, while bottom DO saturation levels slightly exceeded the 10% criterion overall. However, the State assessments are performed on an annual basis.

Table 4-2. Frequency of daily dissolved oxygen saturation values less than the standard = 42%.

Constituent	Total Number Exceeding Criterion	% Exceedance
Water Column DO Saturation	51	5.9%
Bottom DO Saturation	107	12.3%
Surface DO Saturation	10	1.1%

When investigated on an annual basis, water column average DO saturation annual exceedances were more prevalent in the most recent years while bottom DO saturation exceedances have been between 10-20% per year for the majority of the period of record (Figure 4-25). Surface DO exceedances were rarely above 10% in any year. Seasonally, the preponderance of the DO exceedances in the Tidal Peace River ENR occur in the warm summer months when temperature and increased stratification further lower DO saturation levels, particularly near the bottom of the water column (Figure 4-26).

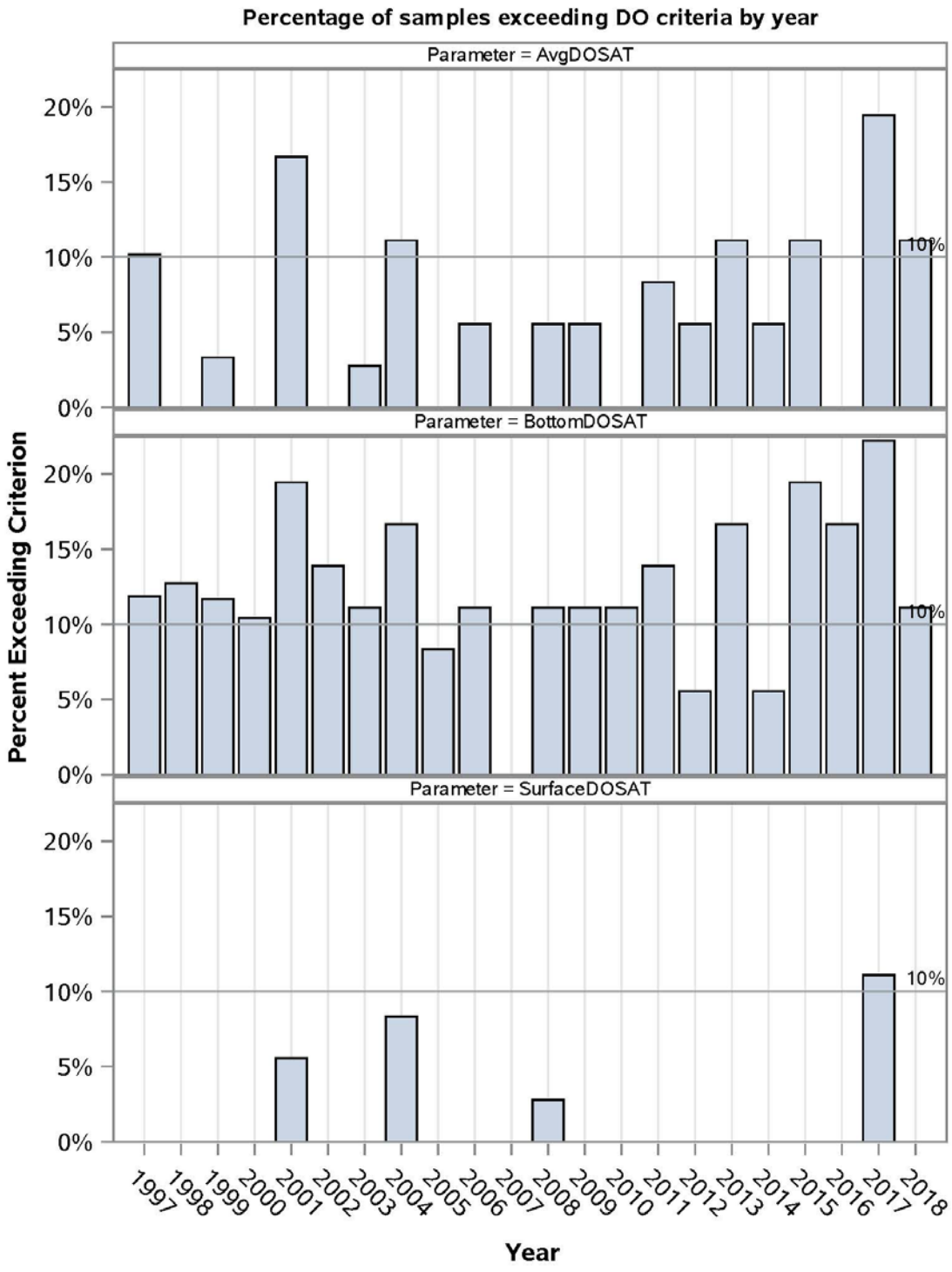


Figure 4-25. Percent frequency of dissolved oxygen saturation values exceeding the 42% standard per year in the Tidal Peace River ENR. Missing bars represent years with no exceedences.

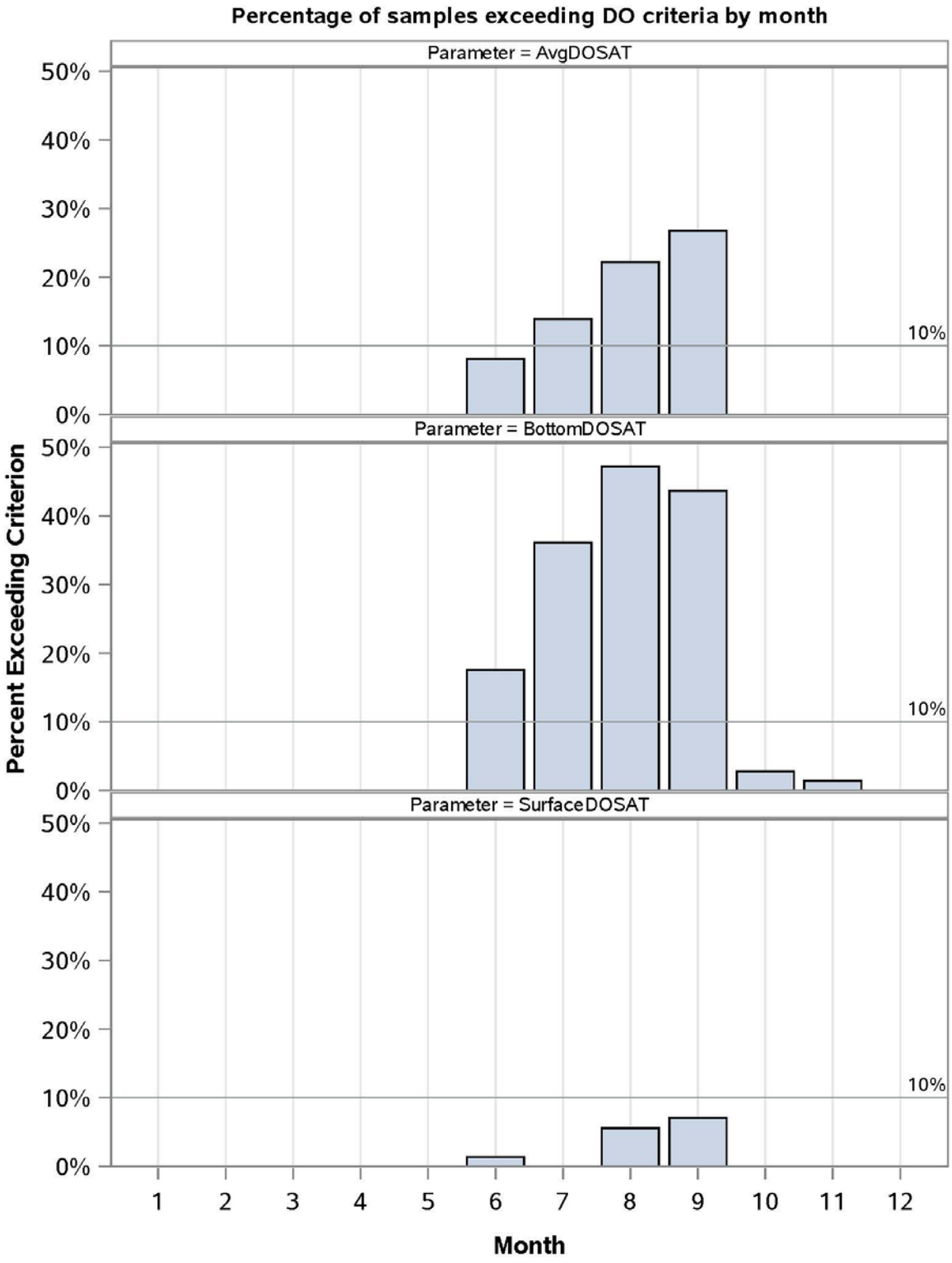


Figure 4-26. Percent frequency of dissolved oxygen saturation values exceeding the 42% standard per month in the Tidal Peace River ENR over the period of record. Missing bars represent years with no exceedences.

Dissolved Oxygen Saturation Evaluation along the River

Exceedances of dissolved oxygen saturation criteria were examined both by WBID, and by individual station. Station level analyses are illustrated below and WBID results are included in Appendix J. The results were similar between the two comparisons. For the overall period of record, total percent frequency of exceedance for both average water column and bottom DO saturation was higher in the more downstream reaches of the study area (Figure 4-27 to Figure 4-29). Note, the more upstream stations are evaluated against a lower dissolved saturation value of 38% as opposed to the marine value of 42%.

Percentage of samples exceeding DO criteria over POR
Class 3F criteria = 38% Class 2 and 3M criteria = 42%

Parameter=AvgDOSAT

Obs	parameter	dis	WBID	CLASS	totexceed	percexceed
1	AvgDOSAT	-2.4	2065A	2	13	4.3%
2	AvgDOSAT	6.6	2056A	3M	28	9.2%
3	AvgDOSAT	8.4	2056B	3M	16	6.1%
4	AvgDOSAT	10.5	2056B	3M	19	7.2%
5	AvgDOSAT	12.7	2056B	3M	8	3.0%
6	AvgDOSAT	12.8	2056B	3M	11	4.2%
7	AvgDOSAT	15.5	2056C2	3M	10	3.3%
8	AvgDOSAT	17.5	2056C2	3M	9	3.4%
9	AvgDOSAT	20.1	2056C1	3M	9	3.4%
10	AvgDOSAT	21.9	2056C1	3M	9	3.4%
11	AvgDOSAT	23.6	1623A	3F	8	2.6%
12	AvgDOSAT	24.7	1623A	3F	8	3.0%
13	AvgDOSAT	25.9	1623A	3F	5	1.9%
14	AvgDOSAT	29.5	1623A	3F	6	2.3%
15	AvgDOSAT	30.7	1623A	3F	6	2.0%
16	AvgDOSAT	32.3	1623B	3F	5	1.9%

Figure 4-27. Overall percent frequency of average water column dissolved oxygen saturation exceedance of criteria for each HBMP fixed-station over the period of record (1997-2018).

Percentage of samples exceeding DO criteria over POR
Class 3F criteria = 38% Class 2 and 3M criteria = 42%

Parameter=BottomDOSAT

Obs	parameter	dis	WBID	CLASS	totexceed	percexceed
17	BottomDOSAT	-2.4	2065A	2	72	24.1%
18	BottomDOSAT	6.6	2056A	3M	64	21.1%
19	BottomDOSAT	8.4	2056B	3M	42	16.0%
20	BottomDOSAT	10.5	2056B	3M	33	12.6%
21	BottomDOSAT	12.7	2056B	3M	23	8.7%
22	BottomDOSAT	12.8	2056B	3M	21	8.0%
23	BottomDOSAT	15.5	2056C2	3M	20	6.6%
24	BottomDOSAT	17.5	2056C2	3M	14	5.3%
25	BottomDOSAT	20.1	2056C1	3M	14	5.3%
26	BottomDOSAT	21.9	2056C1	3M	12	4.6%
27	BottomDOSAT	23.6	1623A	3F	10	3.3%
28	BottomDOSAT	24.7	1623A	3F	11	4.2%
29	BottomDOSAT	25.9	1623A	3F	7	2.7%
30	BottomDOSAT	29.5	1623A	3F	9	3.4%
31	BottomDOSAT	30.7	1623A	3F	6	2.0%
32	BottomDOSAT	32.3	1623B	3F	7	2.7%

Figure 4-28. Overall percent frequency of bottom dissolved oxygen saturation exceedance of criteria for each HBMP fixed-station over the period of record (1997-2018).

Percentage of samples exceeding DO criteria over POR
Class 3F criteria = 38% Class 2 and 3M criteria = 42%

Parameter=SurfaceDOSAT

Obs	parameter	dis	WBID	CLASS	totexceed	percexceed
33	SurfaceDOSAT	-2.4	2065A	2	1	0.3%
34	SurfaceDOSAT	6.6	2056A	3M	2	0.7%
35	SurfaceDOSAT	8.4	2056B	3M	3	1.1%
36	SurfaceDOSAT	10.5	2056B	3M	3	1.1%
37	SurfaceDOSAT	12.7	2056B	3M	3	1.1%
38	SurfaceDOSAT	12.8	2056B	3M	4	1.5%
39	SurfaceDOSAT	15.5	2056C2	3M	7	2.3%
40	SurfaceDOSAT	17.5	2056C2	3M	6	2.3%
41	SurfaceDOSAT	20.1	2056C1	3M	6	2.3%
42	SurfaceDOSAT	21.9	2056C1	3M	7	2.7%
43	SurfaceDOSAT	23.6	1623A	3F	5	1.6%
44	SurfaceDOSAT	24.7	1623A	3F	5	1.9%
45	SurfaceDOSAT	25.9	1623A	3F	5	1.9%
46	SurfaceDOSAT	29.5	1623A	3F	4	1.5%
47	SurfaceDOSAT	30.7	1623A	3F	5	1.6%
48	SurfaceDOSAT	32.3	1623B	3F	4	1.5%

Figure 4-29. Overall percent frequency of surface oxygen saturation exceedance of criteria for each HBMP fixed-station over the period of record (1997-2018).

As with the ENR evaluation, dissolved oxygen exceedances very variable spatially with more exceedences occurring downstream (Figure 4-30). As expected, a greater frequency of exceedance occurs during the warmer summer months where water temperatures and stratification increase (Figure 4-31).

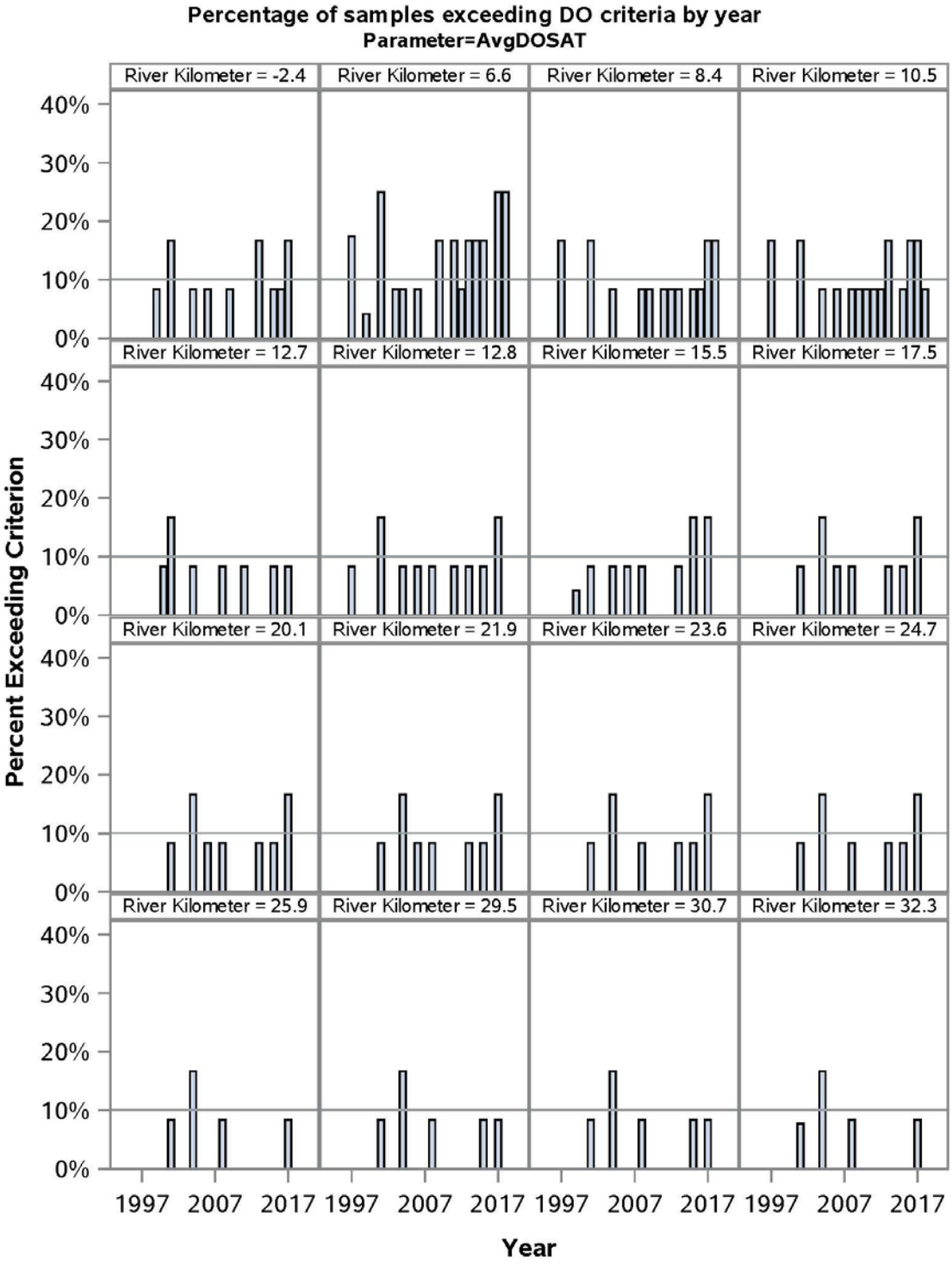


Figure 4-30. Percent frequency of exceedance of average water column dissolved oxygen saturation by year for each HBMP fixed-station over the period of record. Note stations were compared to criteria in accordance with Table 1. Horizontal reference line indicates 10% of samples exceeding applicable criterion. Missing bars represent years with no exceedences.

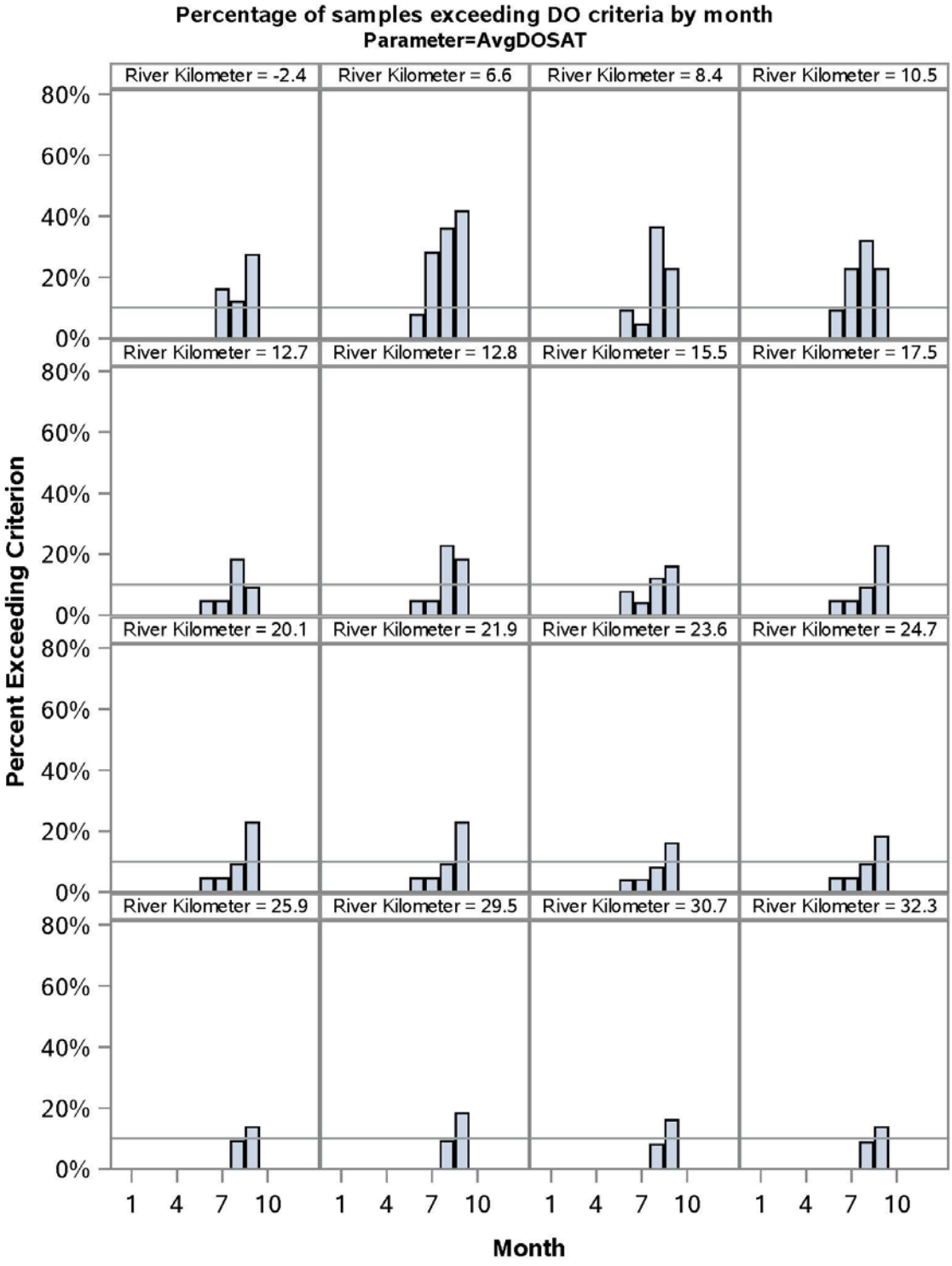


Figure 4-31. Percent frequency of exceedance of bottom dissolved oxygen saturation by month for each HBMP fixed-station over the period of record. Note stations were compared to criteria in accordance with Table 1. Horizontal reference line indicates 10% of samples exceeding applicable criterion. Missing bars represent years with no exceedences.

5.0 RESULTS OF STATISTICAL MODELING WITH FLOWS

5.1 BIVARIATE PLOTS

Simple bivariate plots were constructed to examine the relationship between flows and different water quality constituents, bivariate plots of flows on the abscissa (x axis - log scale) and the various constituents on the ordinate (Y) axis are presented using the 5 HBMP fixed water quality stations where grab samples were collected. An example for bottom salinity for those 5 stations in the lower river is provided in Figure 5-1. A LOESS smoother accompanying the plots represents the locally weighted average relationship. The station numbers increase with distance upstream of the mouth and it is easy to see that surface salinity at each station has a relationship with flow and a unique point at which salinity goes to zero as a function of observed inflows.

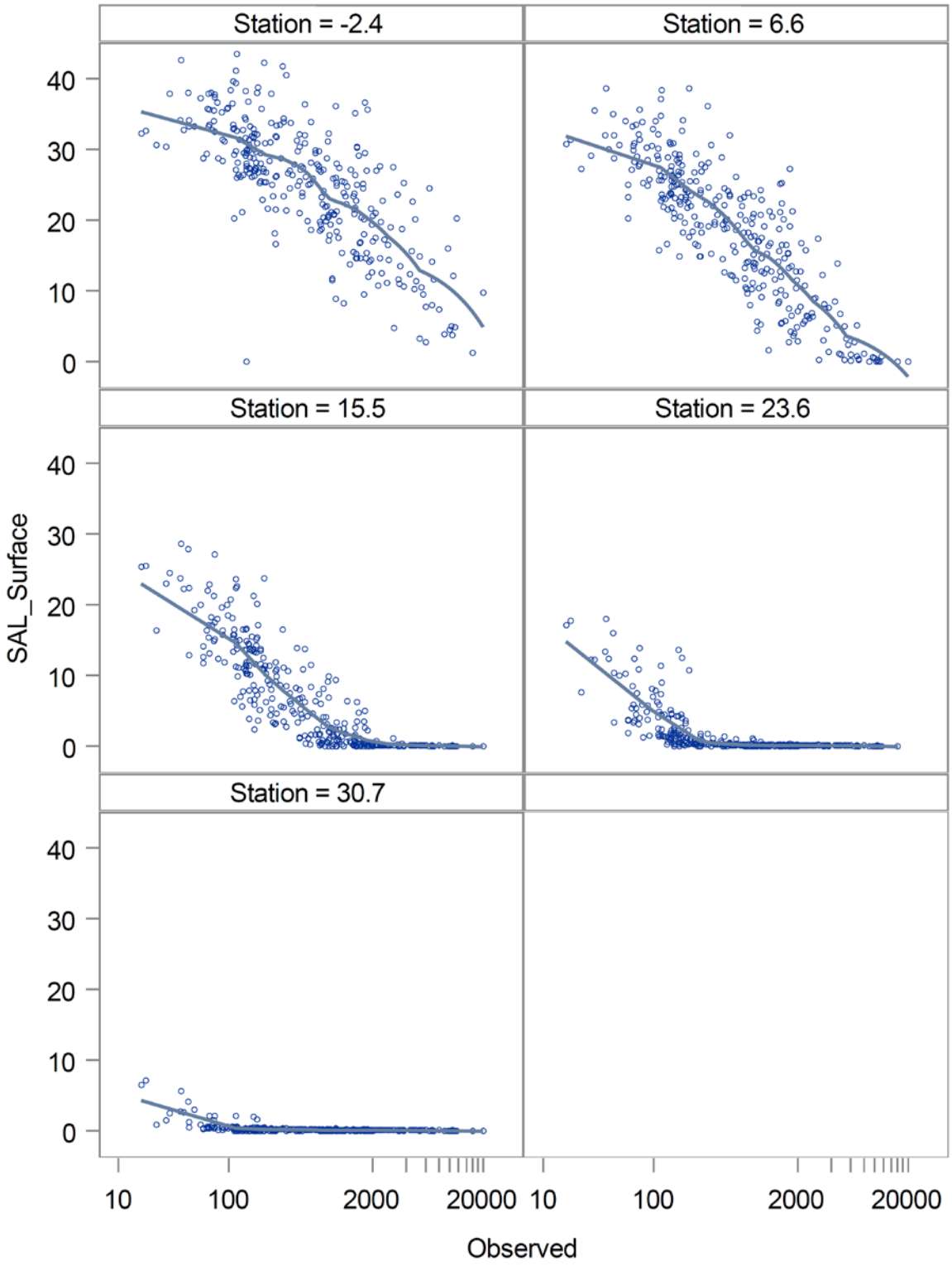


Figure 5-1 Relationship between surface salinity (y axis) and observed flows for the Lower Peace River above Shell Creek.

The relationship between flows and surface chlorophyll is more complex, site dependent, and variable (Figure 5-2). Chlorophyll is plotted on log scale to highlight the relationship between 4 and 100 ug/l where the majority of the data exist.

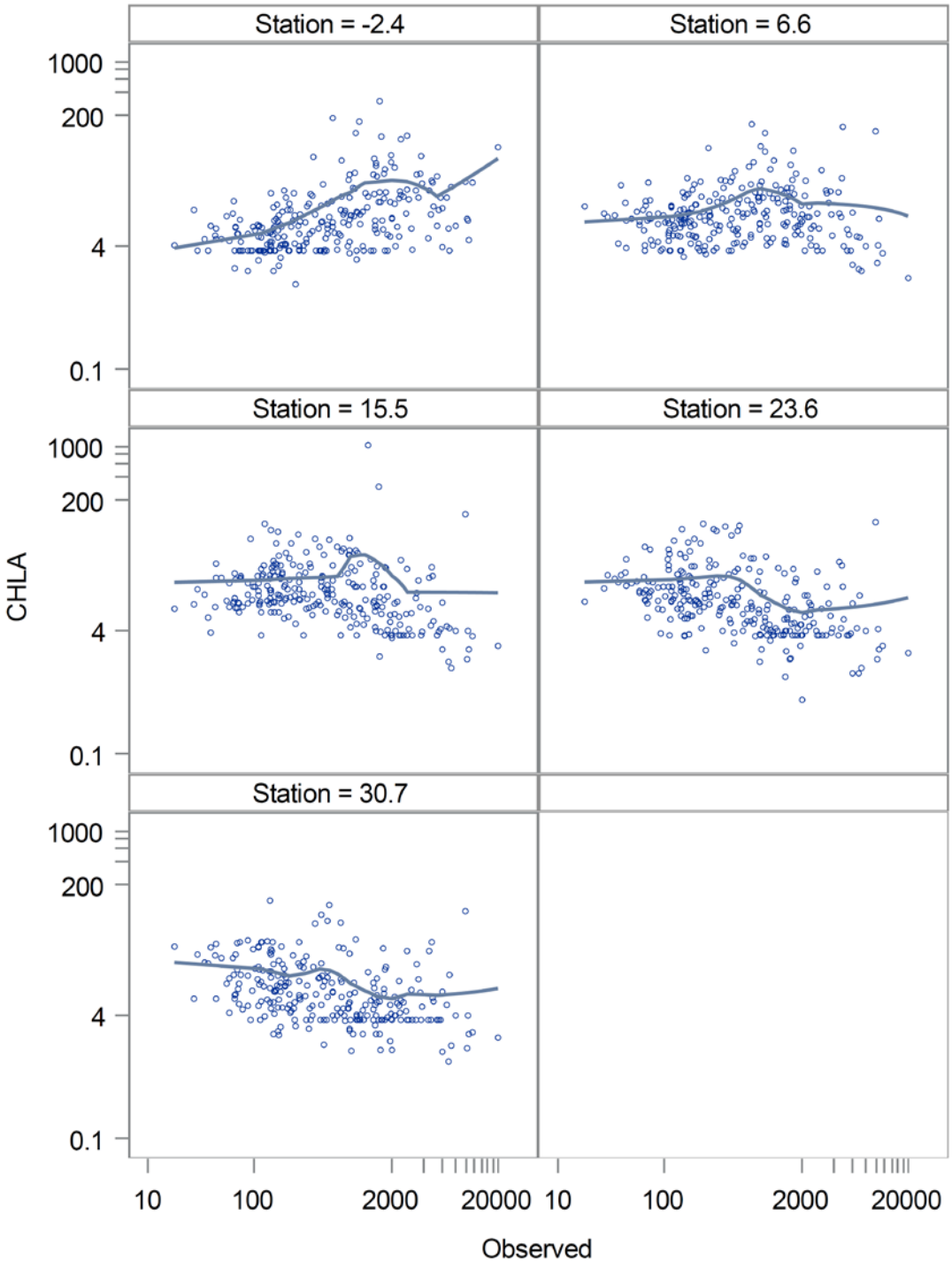


Figure 5-2. Relationship between surface Chlorophyll (Log base 2 y axis) and observed flows for the Lower Peace River above Shell Creek.

Bottom dissolved oxygen concentrations tended to be lowest when flows were ca. 2000 cfs indicating correlation with both flows and temperature as these constituents are seasonally correlated (Figure 5-3).

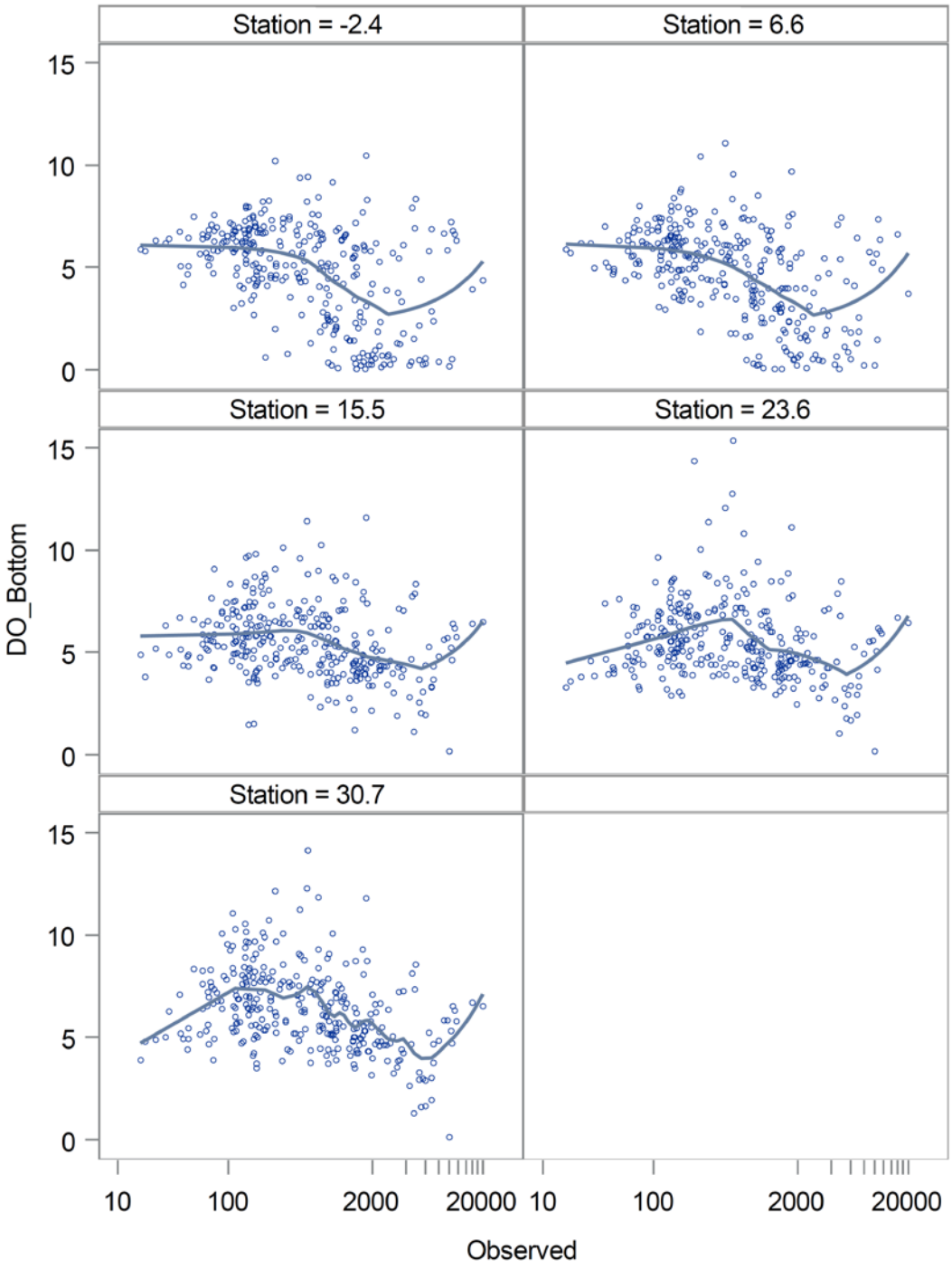


Figure 5-3. Relationship between bottom dissolved oxygen concentrations (y axis) and observed flows for the Lower Peace River above Shell Creek.

Light attenuation and Color (Figure 5-4 and Figure 5-5) increased with increasing flows as would be expected by Wet season source water inputs containing large amounts of colored dissolved organic matter.

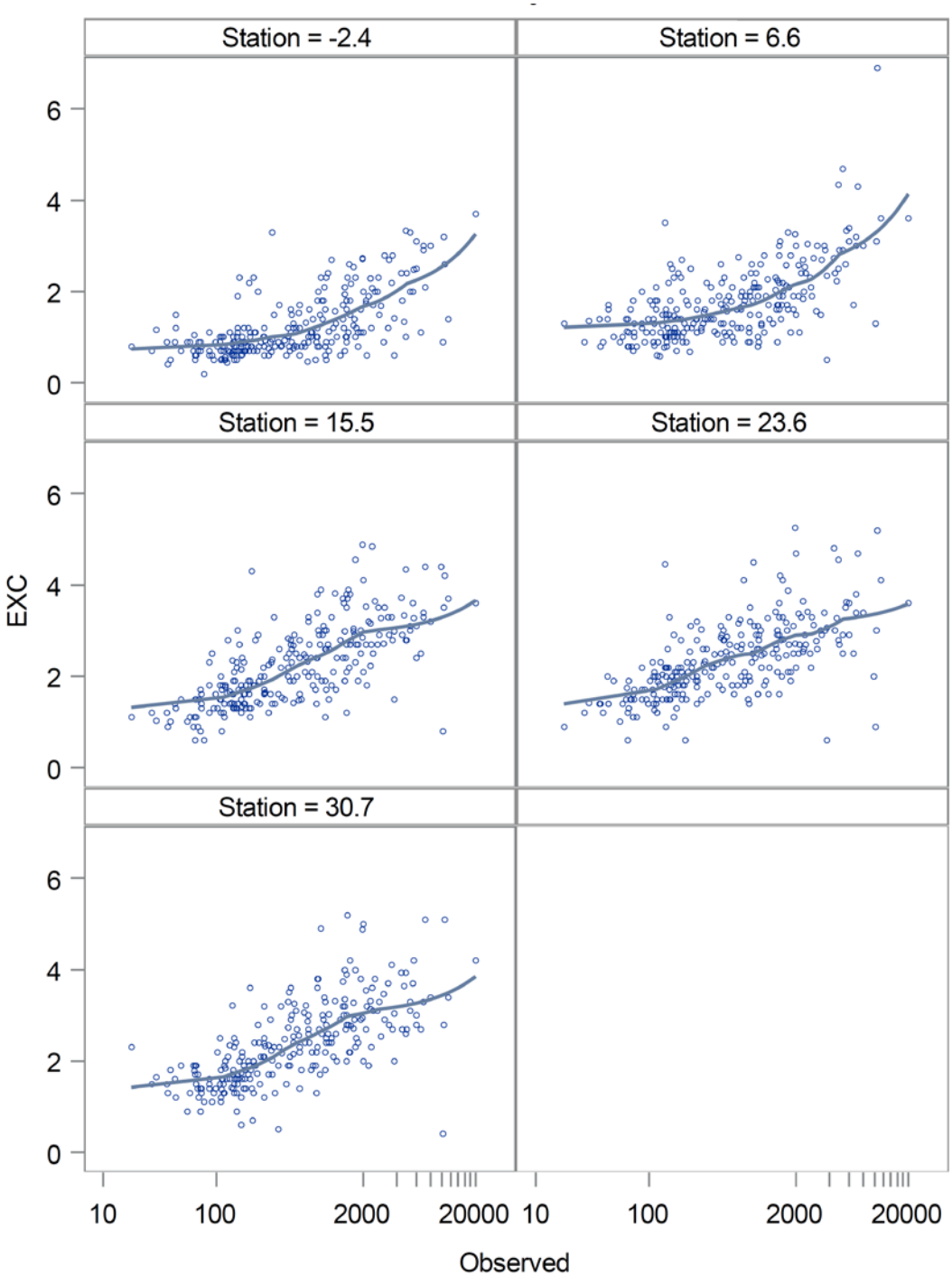


Figure 5-4. Relationship between the light attenuation coefficient Kd (y axis) and observed flows for the Lower Peace River above Shell Creek.

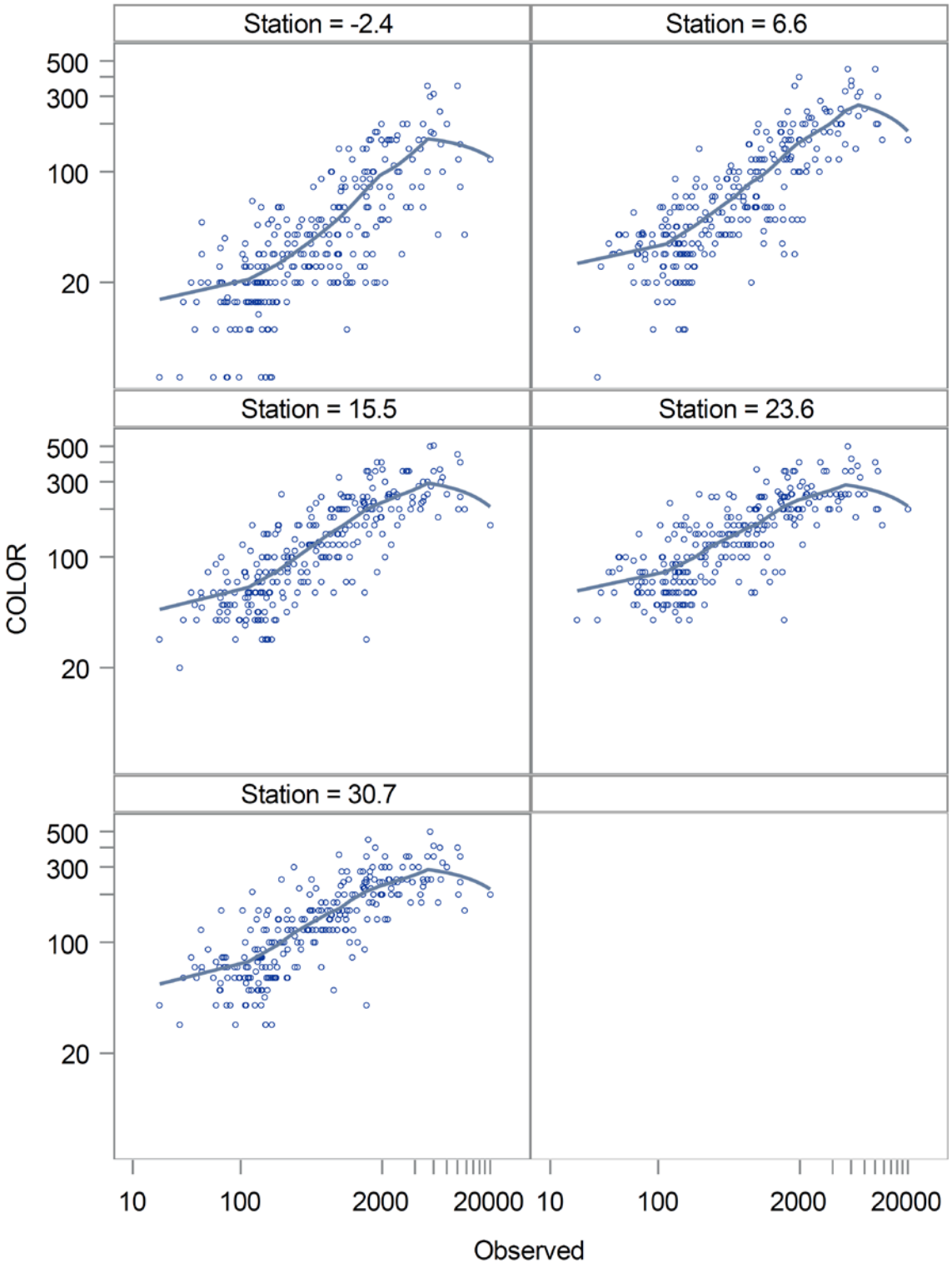


Figure 5-5. Relationship between Color (pcu) (y axis) and observed flows for the Lower Peace River above Shell Creek.

Total nitrogen was also positively correlated with flows to flows of ca. 2000 cfs and then tended to become stable (Figure 5-6). For total phosphorus, the relationship was more site-specific with the upstream sites more stable across the flow regime while the downstream sites displayed a positive correlation with increasing flows (Figure 5-7).

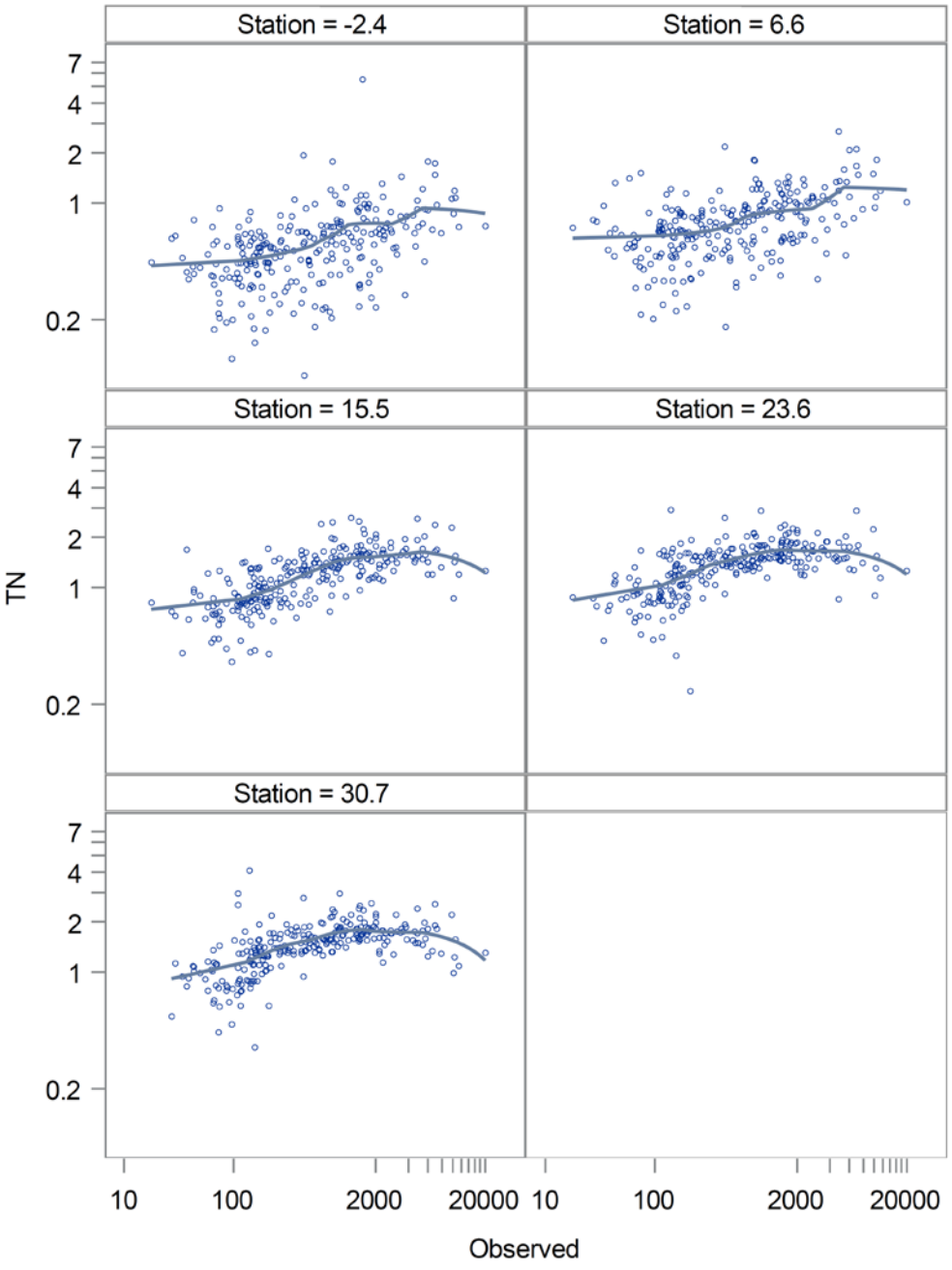


Figure 5-6. Relationship between total nitrogen (mg/l) (y axis) and observed flows for the Lower Peace River above Shell Creek.

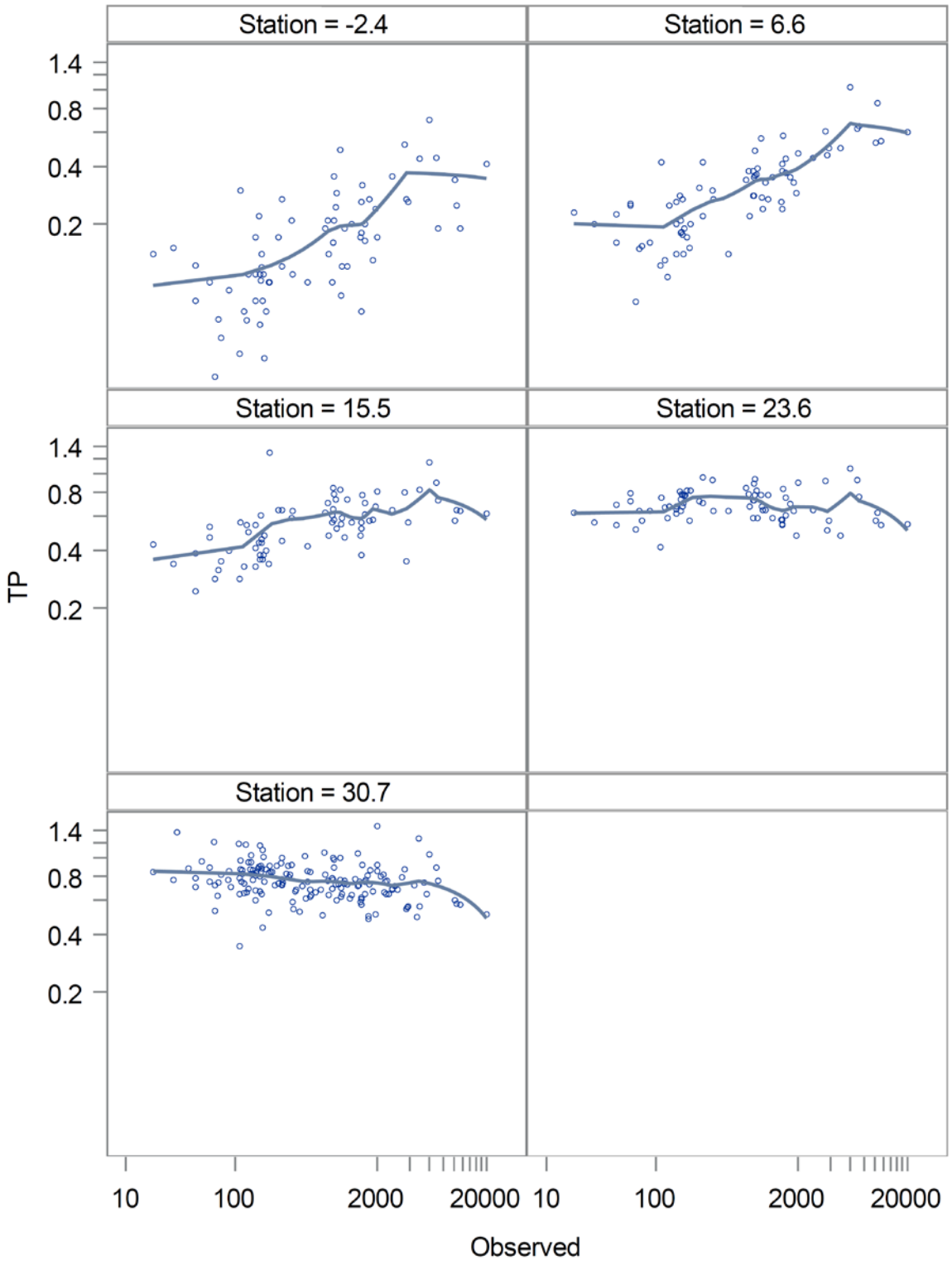


Figure 5-7. Relationship between total phosphorus (mg/l) (y axis) and observed flows for the Lower Peace River above Shell Creek.

Plots for all constituents examined are provided in Appendix K.

5.2 SPEARMAN'S RANK CORRELATIONS WITH LAG AVERAGE FLOWS

A foundation of predictive modeling relies on correlations between a stressor and response variable and the first step of the modeling approach taken for this project was to describe, in simple ways, the relationship between the water quality constituents of interest and flows to the LPR. Spearman's rank correlation was conducted between the constituent of interest and lag average LPR flows between 2 and 60 days to determine the temporal scale on which these constituents might be monotonically correlated (e.g. 10, 30, 60 days) as well as differences in the response spatially throughout the river. Correlations with flow were also performed for potential covariates that are not of primary interest but should be accounted for when conducted predictive modeling. The correlation coefficient (y axis in the following plots) ranges between 1 and -1 with negative correlations indicating that as flows increase the magnitude of the constituent of interest decreases. A correlation coefficient above an absolute value of 0.5 was considered strong correlation for this analysis while values below 0.5 were considered weak. Those values are represented by broken horizontal lines in the figures below. A brief description of the results of this evaluation is provided associated with each constituent of interest.

5.2.1 Chlorophyll

The correlation plots of chlorophyll and flow (Figure 5-8) indicate a spatial interaction between the two with positive correlation at the lowest station in the river indicating that higher flows result in higher chlorophyll in the lower river; no relationship at river kilometer 6.6, and a negative relationship for stations more upstream indicating that higher flows reduce chlorophyll concentrations upstream. There was little difference in correlation among lags from 2 – 60 days in the downstream station with correlation coefficients ca. 0.50 for all lags while in the uppermost stations, shorter lag averages (i.e. < 5 days) were better correlated with chlorophyll than longer lag averages.

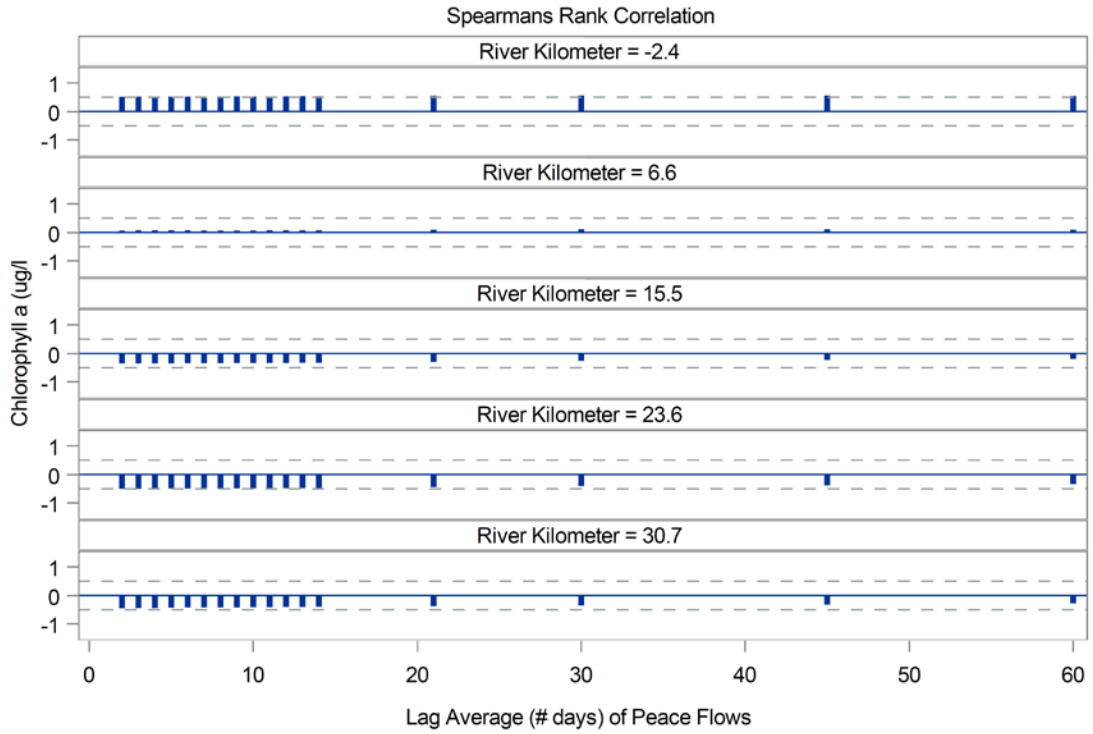


Figure 5-8. Spearman's rank correlation between lag average flows and chlorophyll a concentrations.

5.2.2 Total Nitrogen

Total nitrogen concentrations were positively correlated with lag average flows at all stations (Figure 5-9) indicating that increased flows increase total nitrogen concentrations in the LPR.

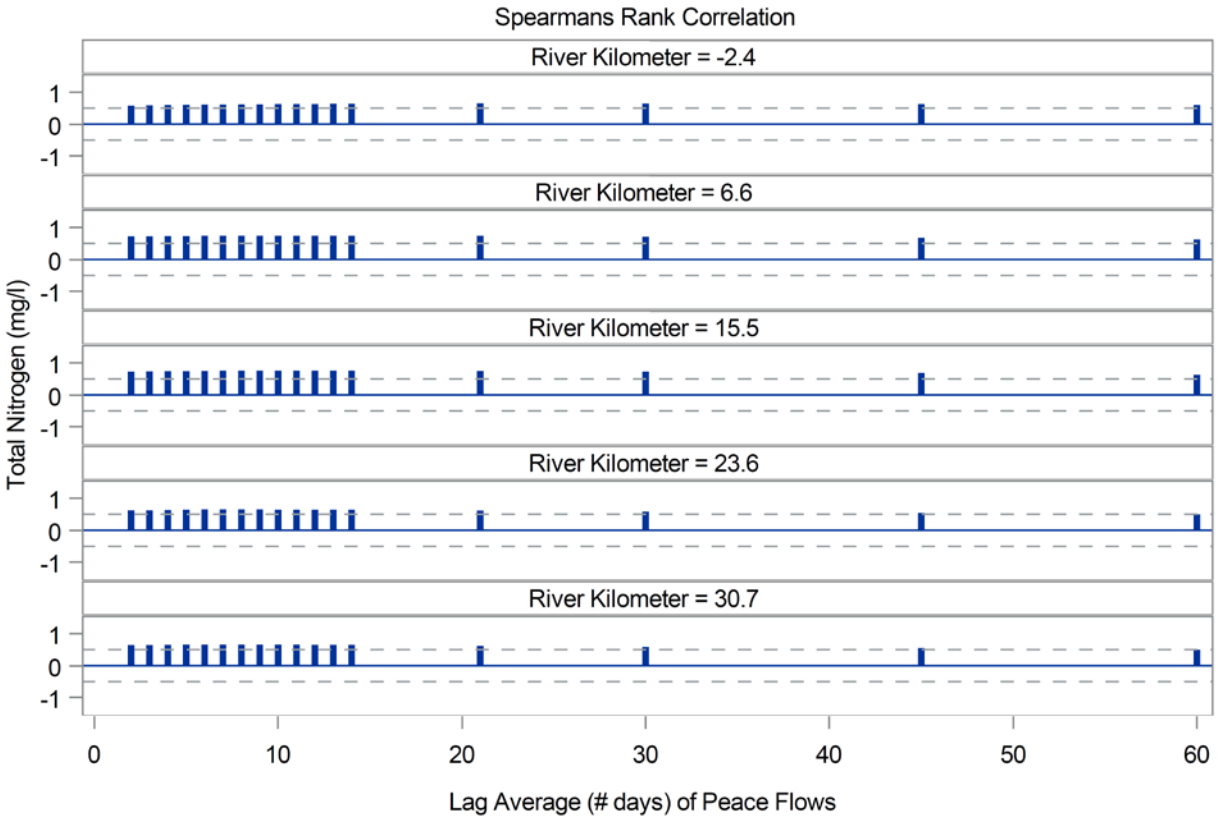


Figure 5-9. Spearman's rank correlation between lag average flows and total nitrogen concentrations.

5.2.3 Orthophosphate

Total phosphorus concentrations were not reported after 2003 but orthophosphate has been continuously reported throughout the HBMP period of record. Orthophosphate concentrations were positively related to flows in the lower river (Figure 5-10) with similar correlation coefficients for all lag averages. More upstream stations exhibited lower and negative correlations with flows indicating that higher flows result in lower orthophosphate concentrations in the upper river.

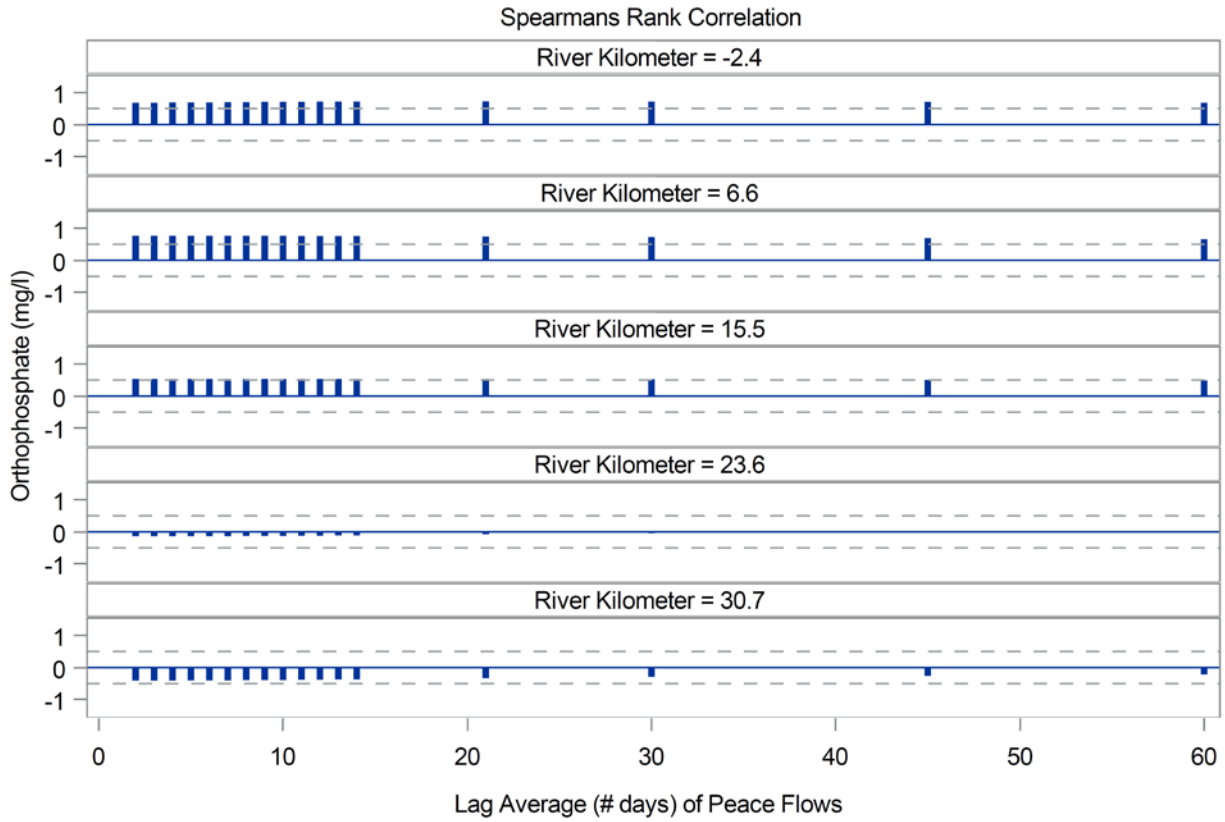


Figure 5-10. Spearman's rank correlation between lag average flows and Orthophosphate concentrations.

5.2.4 Color

Color, or colored dissolved organic matter, is a known covariate with flows and was positively correlated with flows at all stations with correlation coefficients above 0.5 for all stations in the river (Figure 5-11). Coefficients were very similar across lag averages though longer lags (e.g. 30 days) were slightly higher than shorter lags in the lower river and the shorter lags (e.g. 14 day) slightly higher than longer lags in the upper river.

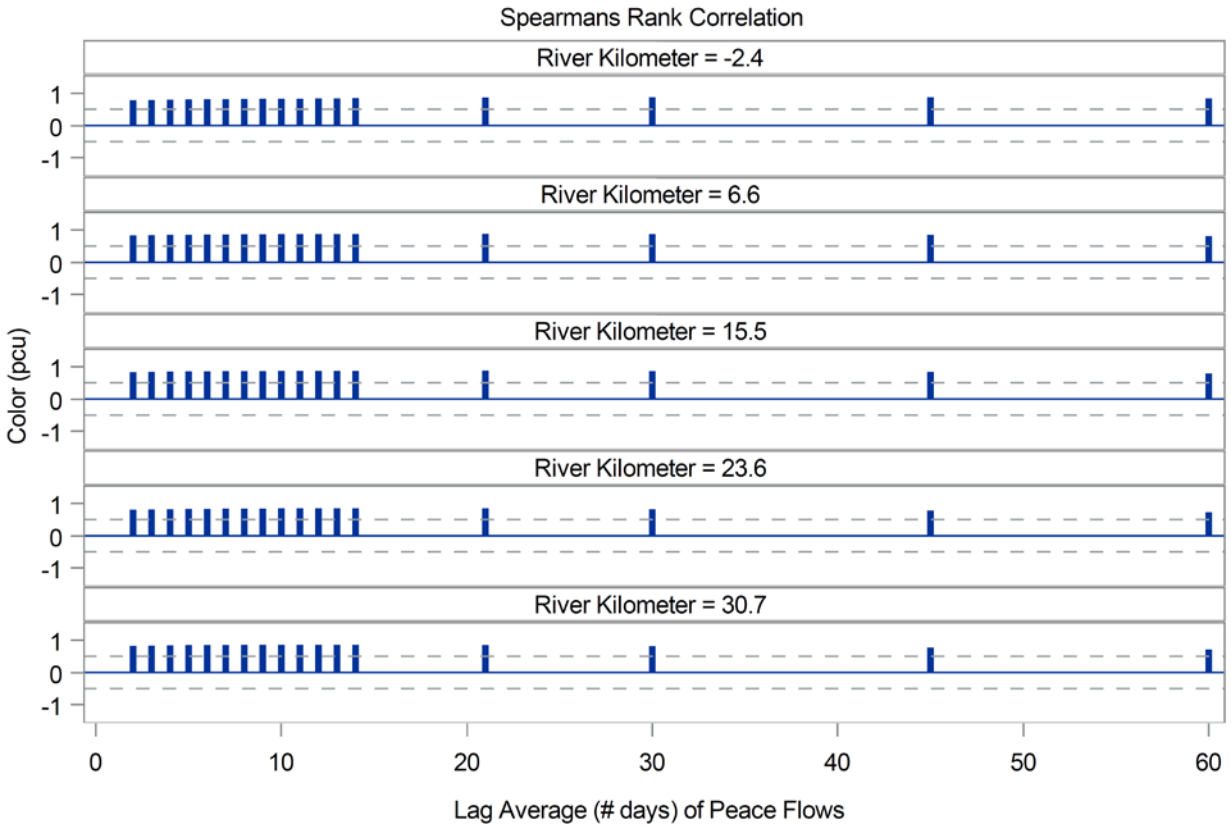


Figure 5-11. Spearman's rank correlation between lag average flows and Color.

5.2.5 Water Temperature

Water temperature was also examined as a potential covariate since many constituents have a strong seasonal signal in the LPR (Figure 5-12). However, correlations between flows and water temperature were weak which is likely due to a somewhat bimodal distribution in flows (Figure 5-13). As temperature increases in the spring, flows are trending towards their typical annual minima and with the onset of the Wet season, flows increase dramatically as water temperatures continue to rise.

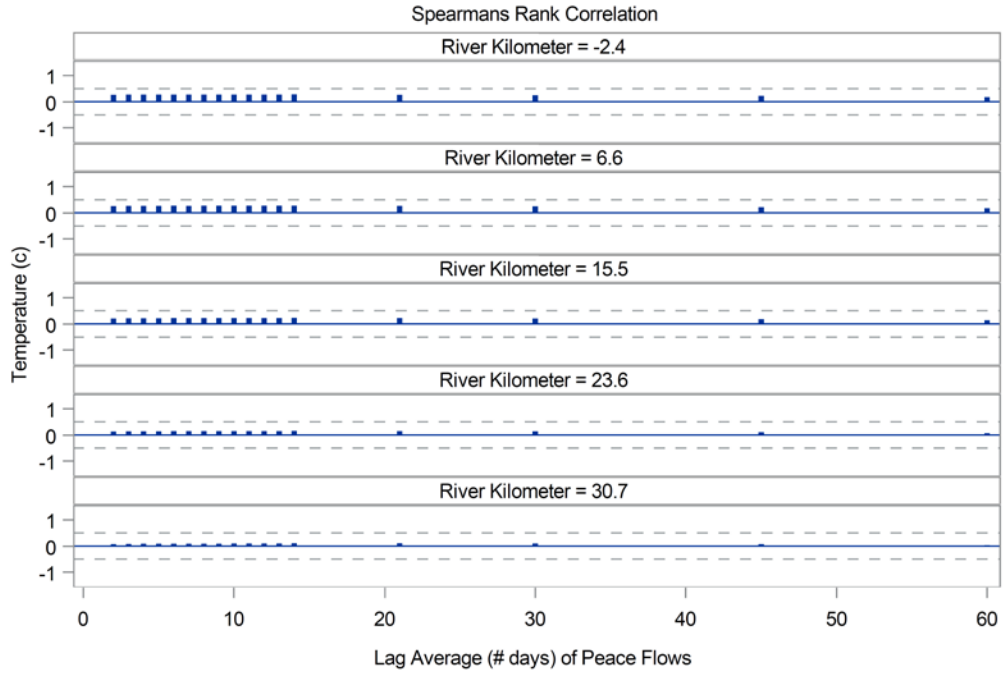


Figure 5-12. Spearman's rank correlation between lag average flows and Temperature.

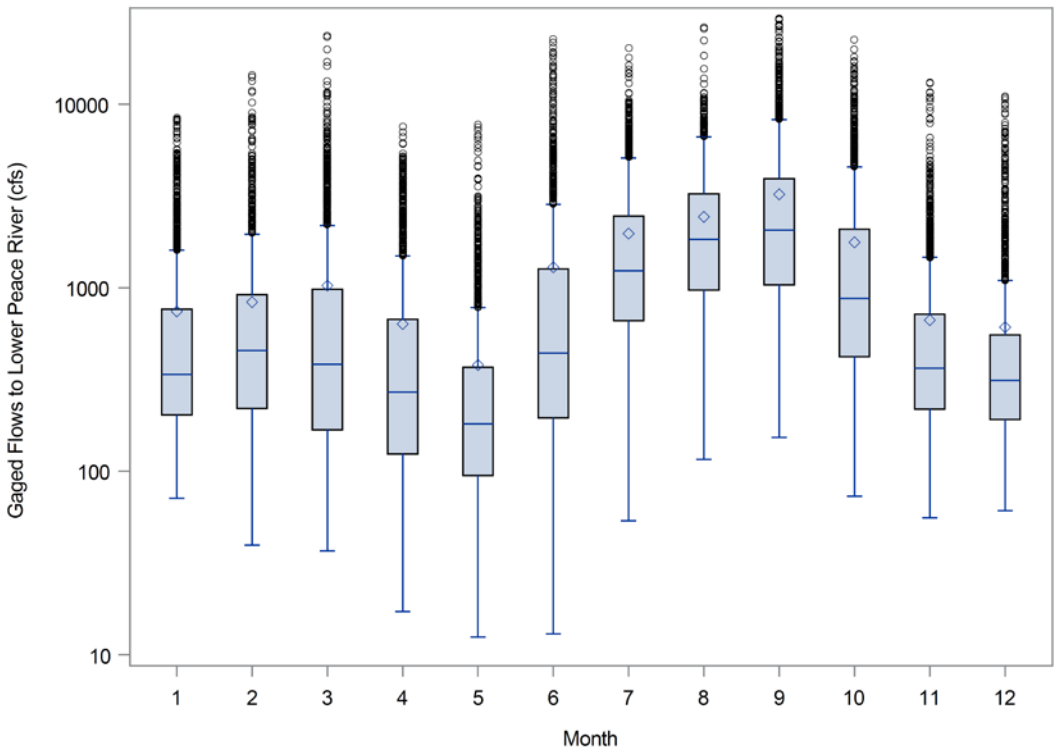


Figure 5-13. Boxplots of LPR flows by month across years. Y axis plotted on log 10 scale.

5.2.6 Dissolved Oxygen

Dissolved oxygen concentrations were collected using water column profiles at 16 stations throughout the LPR. In Florida Administrative Code (FAC), criteria for DO are expressed based on percent saturation (%sat) and so %sat was used to evaluate correlations with flows. We also examined seasonally specific correlations since, despite the temperature adjustment, DO %Sat remains highly seasonal and most exceedences of the state standards occur in the summer Wet season. In addition, bottom %sat values tended to be depressed relative to water column %sat and so bottom and water column average %sat were evaluated separately. Correlations in the Dry season were generally weak with limited evidence of a relationship with flow using either bottom or water column average %sat (Figure 5-14 - Figure 5-15). Correlations were much stronger in the Wet season based on either both bottom and water column %sat with a negative correlation against all flow lags at all stations indicating that as flows increase %sat goes down in the Wet season at all stations (Figure 5-16 Figure 5-17). Shorter lags (i.e. less than 10 days) were more highly correlated with flows than longer lags at all stations.

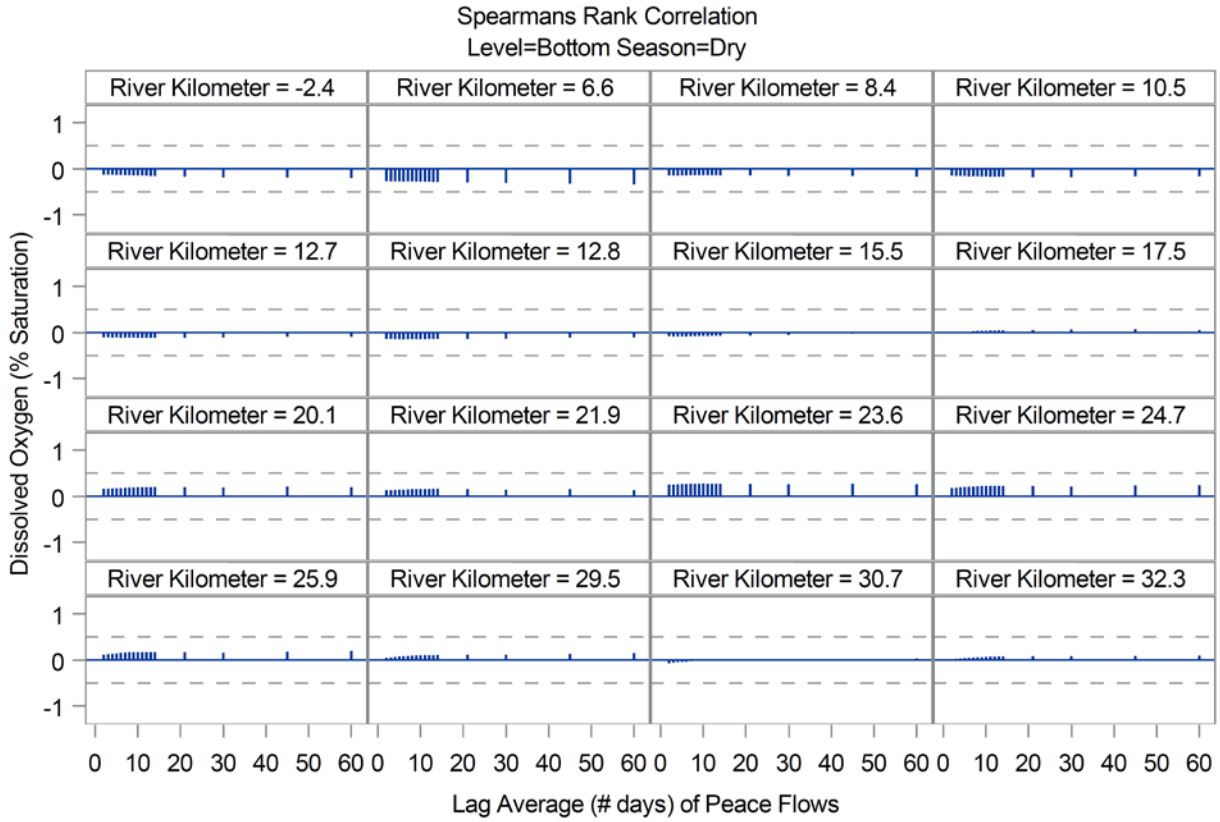


Figure 5-14. Spearman's rank correlation between lag average flows and bottom dissolved oxygen (% saturation) during the Dry season.

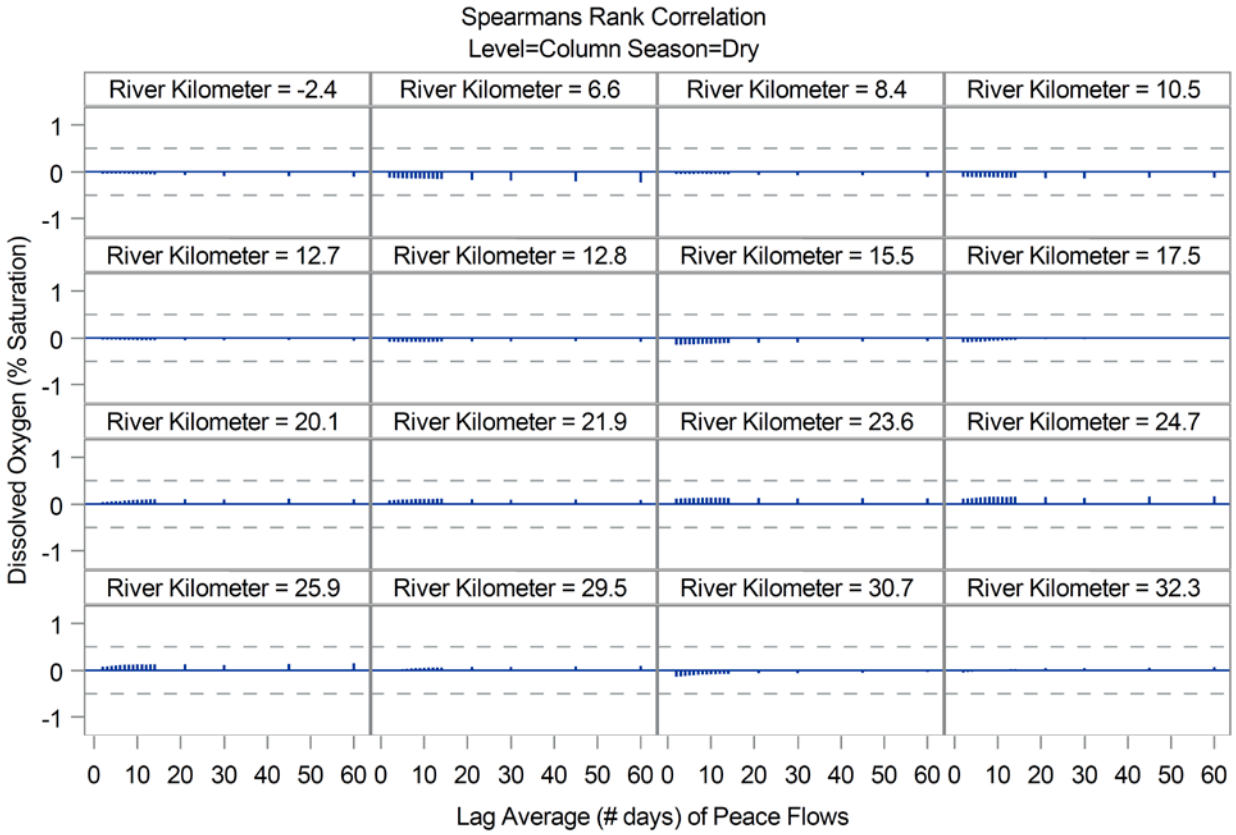


Figure 5-15. Spearman's rank correlation between lag average flows and water column average dissolved oxygen (% saturation) during the Dry season.

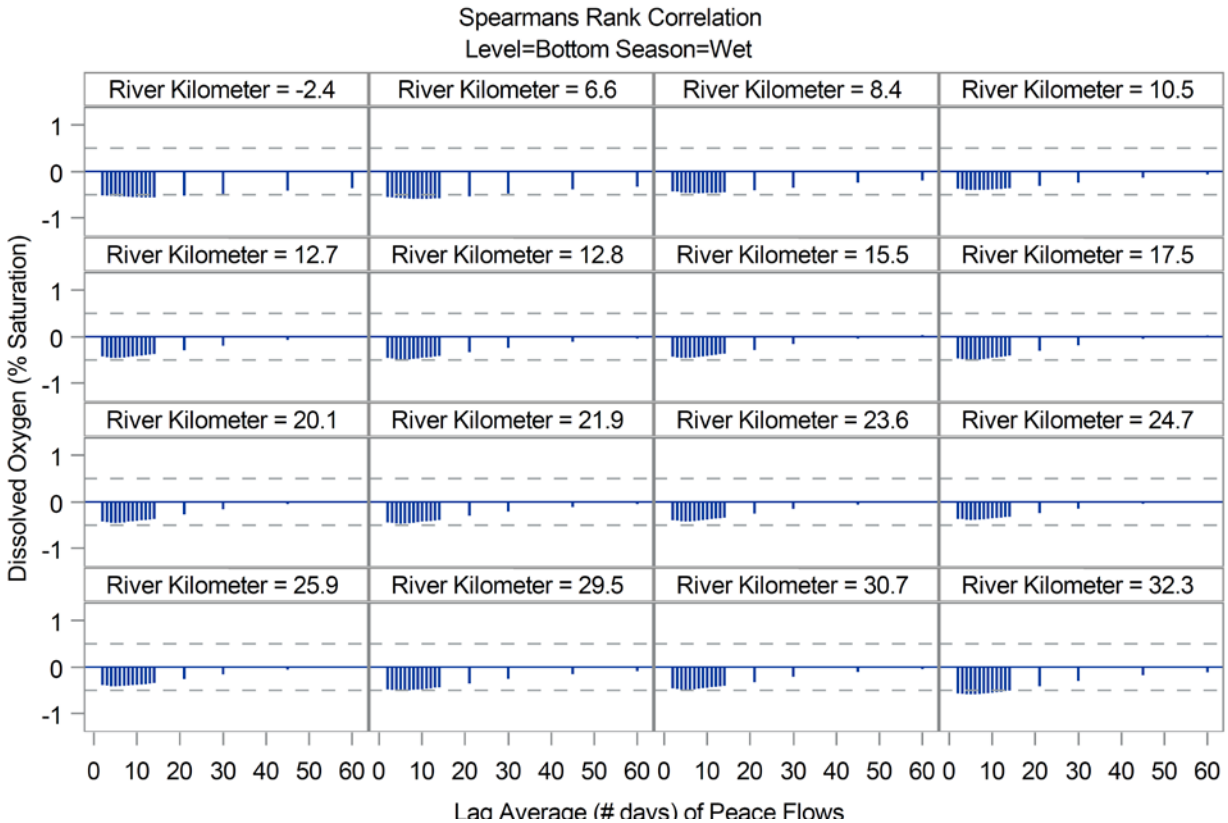


Figure 5-16. Spearman's rank correlation between lag average flows and bottom dissolved oxygen (% saturation) during the Wet season.

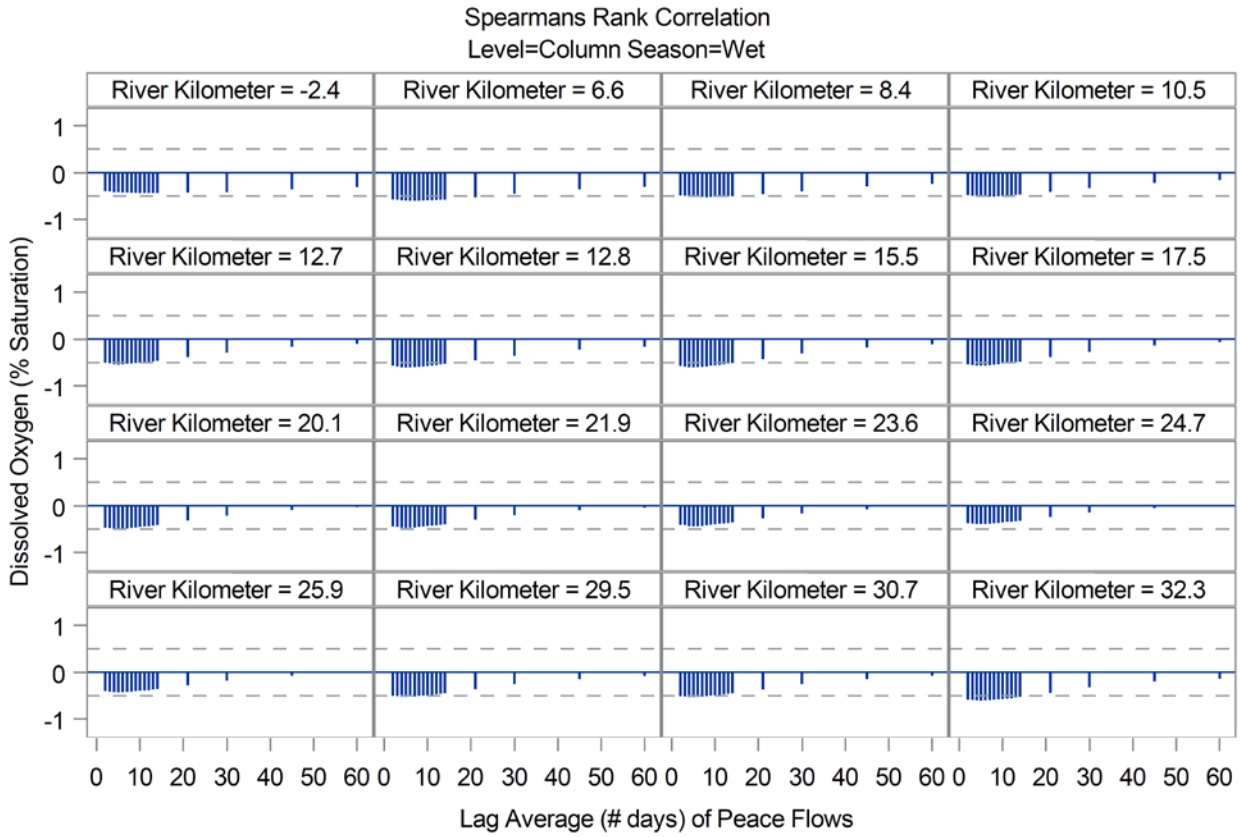


Figure 5-17. Spearman's rank correlation between lag average flows and water column average dissolved oxygen (% saturation) during the Wet season.

5.3 PREDICTIVE MODELING

The predictive modeling approach involved assessing the relationships between the constituent of interest and flows using all statistical methods described above. This section is organized by constituent and describes the results of the analytical assessments as they were conducted.

5.3.1 Total Nitrogen

The bivariate plots of Section 5.1 demonstrated a positive relationship between TN concentrations and flows for all stations and the Spearman's rank correlations also suggested positive relationships between TN and flows for all stations at all lag average flows. The results held irrespective of season indicating no spatial interaction between flows and TN. For example, when evaluating all stations in the LPR, the distribution of Wet season concentrations was statistical higher than the Dry season concentrations (Figure 5-18). Conditional inference tree analysis suggested that season was the principal determinant in predicting the probability of exceeding the TN threshold value, irrespective of which station was involved (Figure 5-19). Within each season, higher exceedence probabilities were associated with higher flows though the lag average flow differed depending on the sub group. For example, the results as shown in Figure 5-19 suggest that in the Dry season, 21 day lag average flows over 1093 cfs, were associated with a significantly higher exceedence probability than flows below 1093 cfs. When the 21 day average was less than 1093 cfs, higher 3

day lag average flows were associated with higher exceedence probabilities. The highest overall probability group occurred during the Wet season when the 5 day lag average flow was greater than 613 cfs. These results provide no evidence to refute the null hypothesis that flow reductions will not have a detrimental effect on the probability of exceeding management level thresholds for total nitrogen in the LPR.

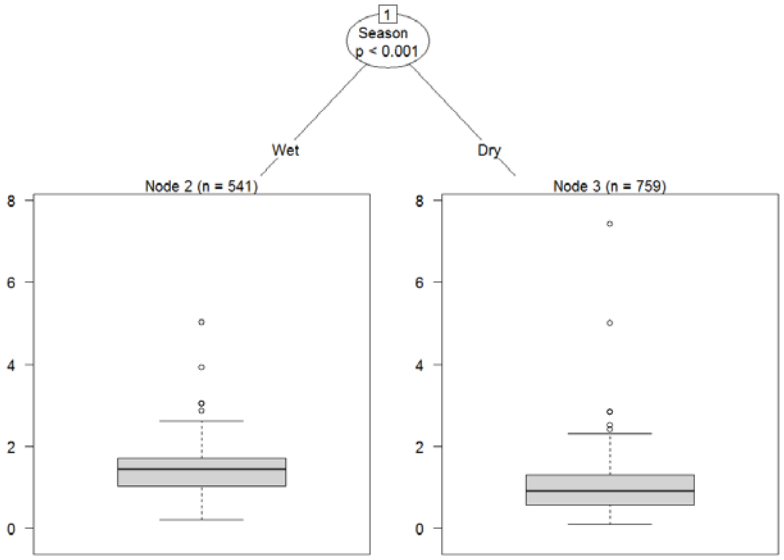


Figure 5-18. Distribution of TN by season indicating a statistically significant difference between Wet and Dry season total nitrogen concentrations.

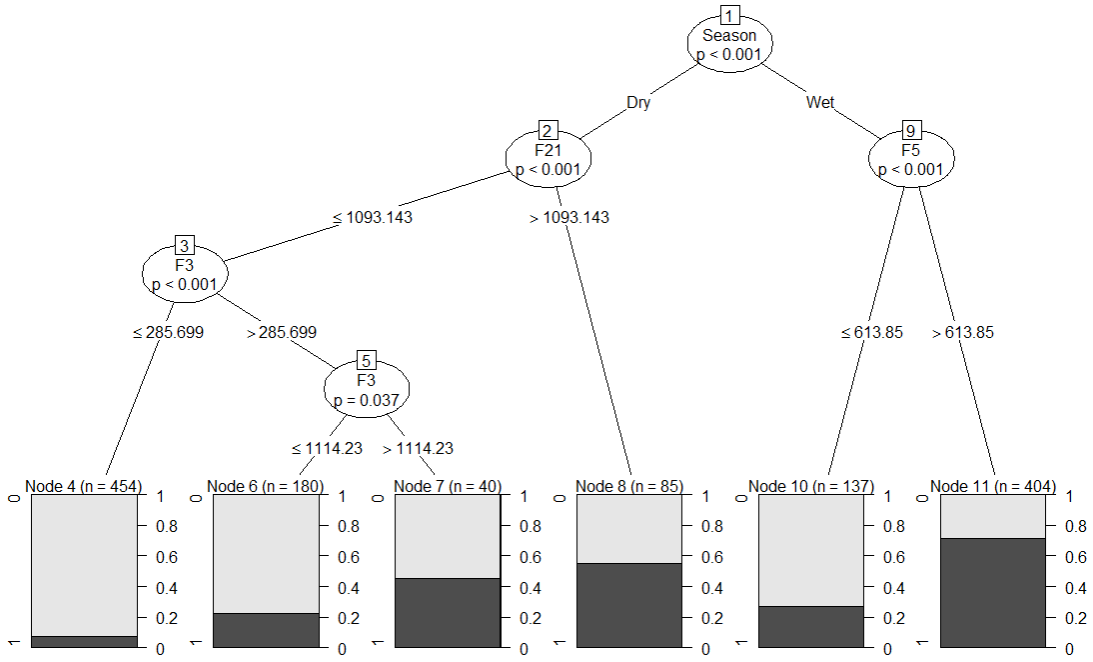


Figure 5-19. Probability of exceeding the TN threshold value as a function of season and flows.

5.3.2 Orthophosphate

The results for orthophosphate were similar to TN in that the bivariate plots of Section 5.1 demonstrated a positive relationship between OP concentrations and flows for all stations and the Spearman's rank correlations also suggested positive relationships between OP and flows for all stations at all lag average flows. While there was a statistically significant difference between seasons, once flows were included in the conditional inference models, flows became the only determinant factor in separating OP concentrations into different groups with 30 day average flows higher than 1733 cfs having a significantly higher probability of exceedence than lower 30 day average flows. Therefore, based on the bivariate plots, the Spearman's rank correlation and the results of conditional inference tree analysis there was no evidence to suggest that flow reductions would have an increased probability of exceedence of the established OP thresholds.

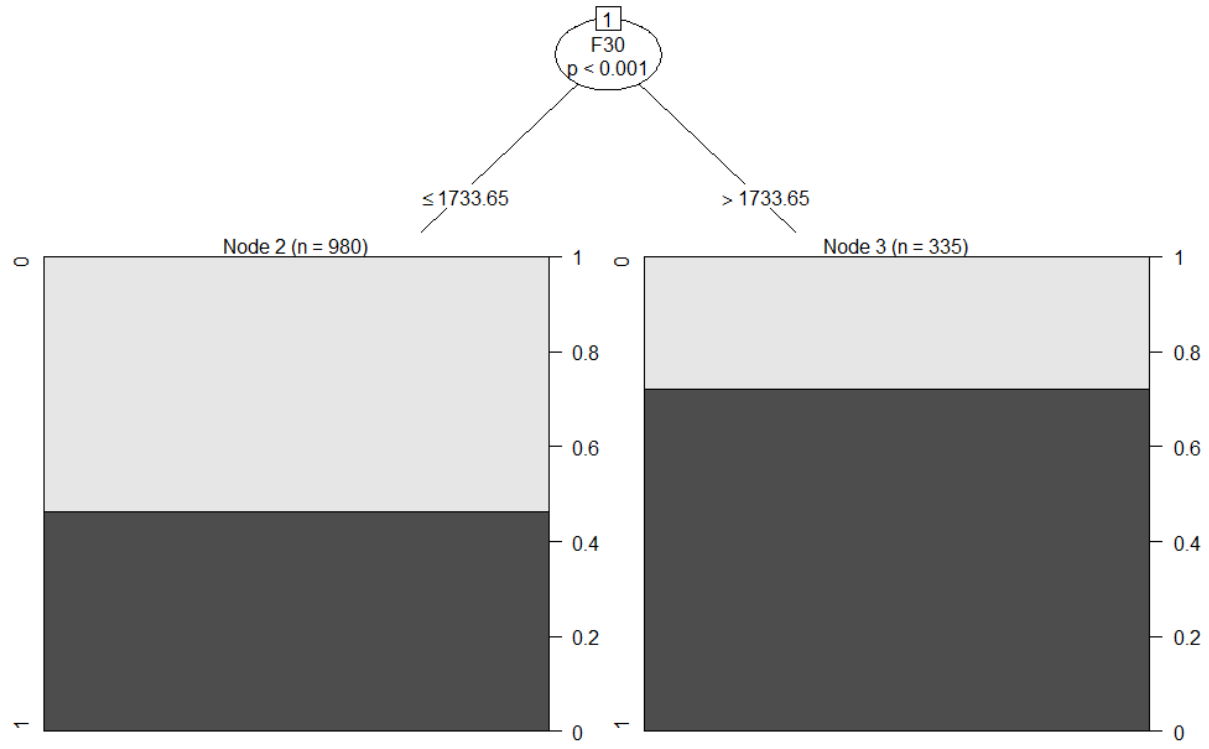


Figure 5-20. Probability of exceedence (black) as a function of different lag average flows for all stations in the LPR.

5.3.3 Chlorophyll

The bivariate plots of Section 5.1 as well as the Spearman's rank correlation plots suggested that chlorophyll concentrations were site dependent within the LPR. For this reason a different predictive modeling approach was used to assess the relationship between flows and chlorophyll concentrations. A "whole river" model was developed using a nonparametric surface response model to estimate chlorophyll concentrations as a function of location in the LPR and natural log transformed flows. The results are provided in Figure 5-21. This model predicts a downstream movement of peak chlorophyll concentrations with increasing flows with highest concentrations upstream at lowest flows and highest concentrations downstream at highest flows. This is a typical response curve for chlorophyll in southwest Florida tidal rivers as bloom conditions require a combination of nutrients and appropriate residence times to successfully reproduce in a manner that results in bloom conditions. Application of this model to the Minimum Flows scenario is discussed in Chapter 6. In addition, because of the spatial interaction between flows, season and chlorophyll responses, we examine site specific relationships with flows using logistic regression to evaluate if there are certain portions of the lower river more sensitive to flow reductions than others.

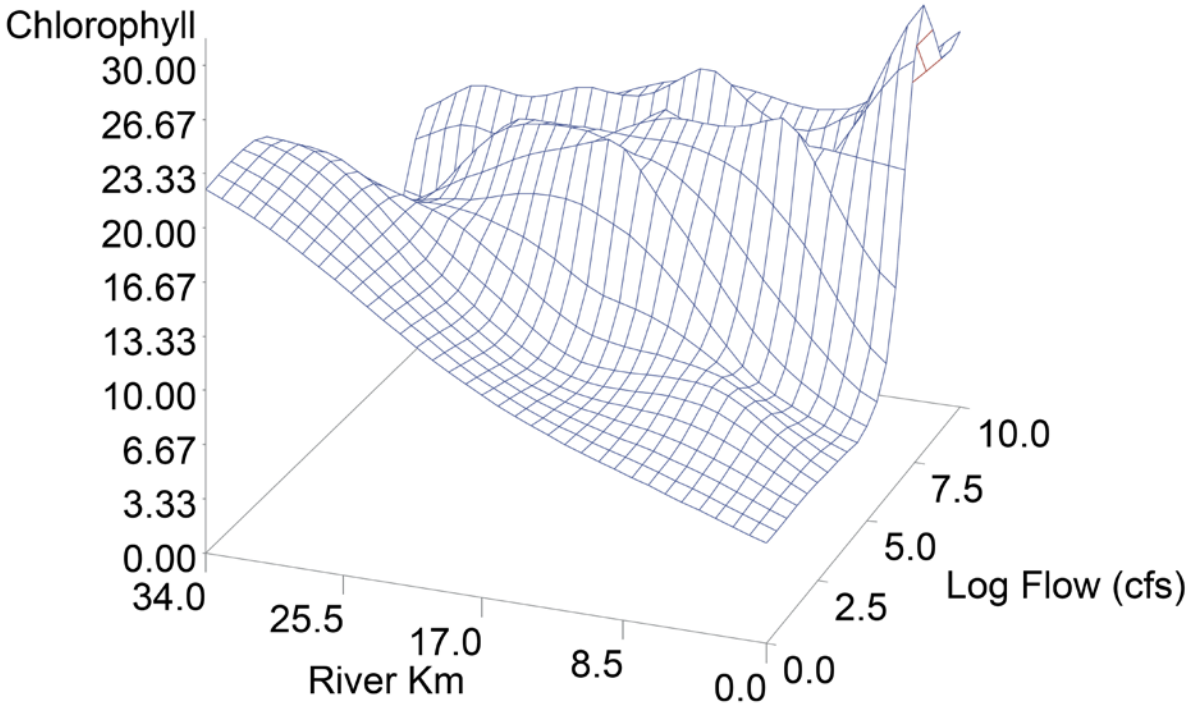


Figure 5-21. Results of thin plate spline surface response model predicting chlorophyll concentrations as a function of location in the lower Peace River and flows (natural log transformed).

Site specific distributions of chlorophyll threshold exceedances by season for each of the five stations are provided in Figure 5-22. Clearly, an increased probability of exceedance in the Wet season occurs at the lowest station as is reduced in the most upstream stations. Therefore initial chlorophyll modeling was conducted separately for each station and season. The results indicated very weak relationships between flows and the probability of exceeding the established thresholds with max rescaled R^2 values generally less than 0.20 and with Area Under the Receiver Operator Curve (ROC) values < 0.70. Two minor exceptions included the station in the middle river (15.5 which had a Wet season regression with an R^2 of 0.22 and ROC of .76, and the station outside the mouth of the River (-2.4) with a Dry season regression R^2 of 0.19 and ROC of .71. These regressions were considered insufficient for predictive modeling of the effects of flows on chlorophyll exceedences.

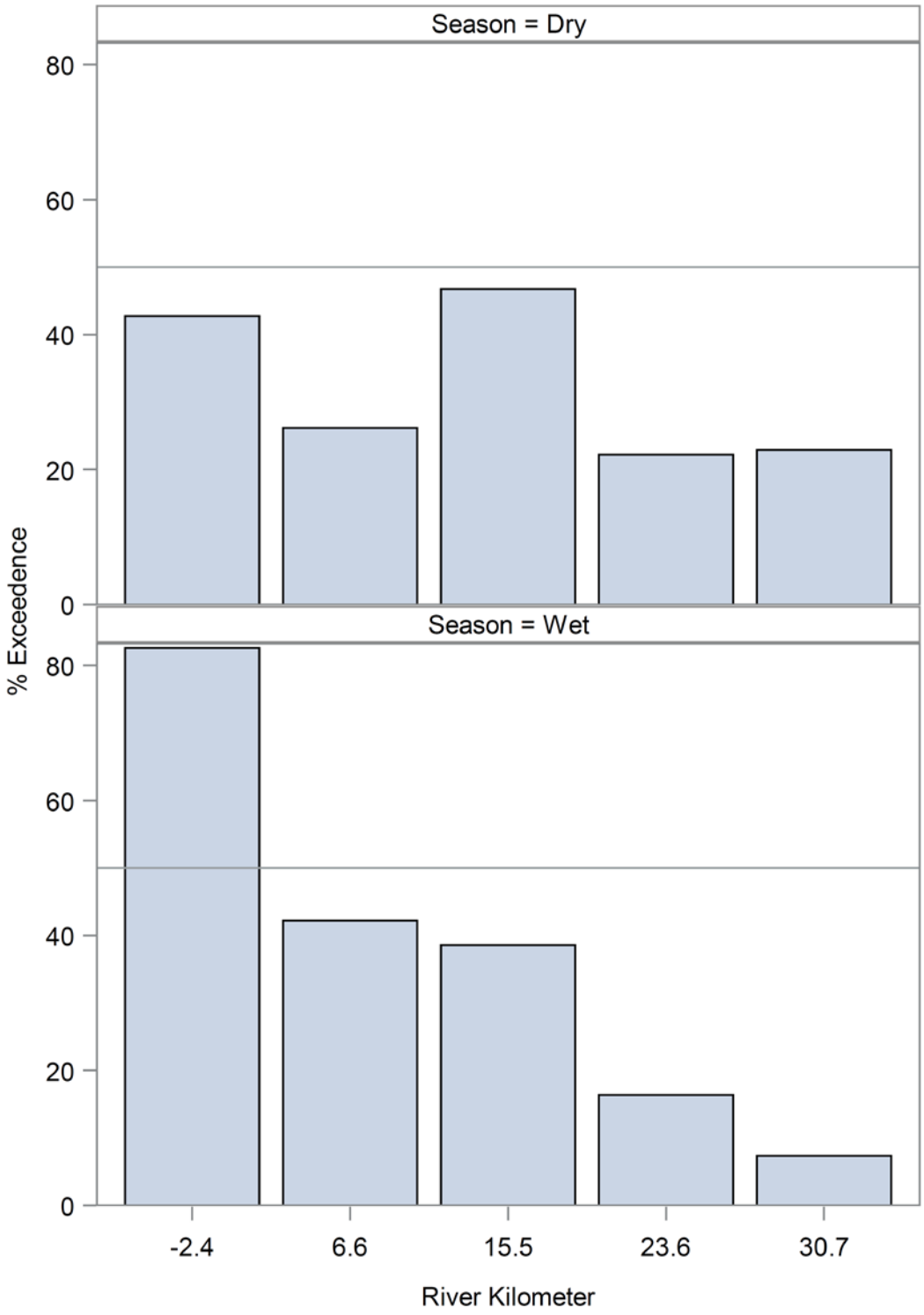


Figure 5-22. Probability of exceedance by station in Dry (top) and Wet (bottom) seasons.

Table 5-1. Logistic regression results for HBMP fixed stations sorted from upstream to downstream.								
Station	Season	Nobs	% Exceed	Above Threshold	Below Threshold	R^2	ROC	Flow Lag Avg.
30.7	Dry	153	22.88	35	118	0.11	67.70	NS
30.7	Wet	109	7.34	8	101	0.06	68.04	NS
23.6	Dry	153	22.22	34	119	0.06	63.84	NS
23.6	Wet	110	16.36	18	92	0.10	69.60	2 Day
15.5	Dry	152	46.71	71	81	0.04	60.32	NS
15.5	Wet	109	38.53	42	67	0.22	76.02	6 Day
6.6	Dry	153	26.14	40	113	0.00	53.09	NS
6.6	Wet	109	42.20	46	63	0.01	55.92	NS
-2.4	Dry	152	42.76	65	87	0.19	71.48	60 day
-2.4	Wet	109	82.57	90	19	0.06	63.38	28 day

*NS = not significant

Due to strong colinearity among lag average flows, only a single lag average flow was considered in the logistic regression models. Adding multiple co-linear terms can corrupt the parameter estimates and the standard errors used to evaluate statistical significance. In addition to co-linearity among flow lag averages, several other water quality constituents were also positively correlated with one another, and with flows, which led to a similar concern when attributing responses in chlorophyll to variation in inflows.

Given the considerations above, the Random Forest implementation of conditional inference trees was used to evaluate the most influential constituents in differentiating the chlorophyll a distribution. The variable importance plot (Figure 5-23) lists the contribution of each vairable to the incremental node purity based on analysis of all stations combined. Results suggest that salinity (SAL), total nitrogen (TN), and inorganic nitrogen (N23) contributed most to the differentiatation of chlorophyll concentrations. Flows (i.e., same day, 60 day and 3 day) were much less of a contributing factor to differences in observed chlorophyll distributions throughout the system as a whole. Since chlorophyll exceedences were more susceptible to lower flows at station 15.5, this station was evaluated separately using the Random Forest routine. The results suggest N23 and TN remain more important constituents in explaining the response of chlorophyll than flows (Figure 5-24) and the importance of salinity is diminished.

To examine the potential benefits of including TN and N23 in a multiple linear logistic regression, multi-colinearity was tested using Proc Reg procedure with the VIF option in SAS (Sas Stats Users Guide 2018). The results suggested that these consitituents were within tolerence limits (i.e. < 2) so TN and N23 were included as covariates in the chlorophyll logistic regression. Results for the Wet season suggested that TN had an antagonistic effect on chlorophyll exceedences (i.e. more TN more exceedences), N23 had a marginally protective effect ($p = 0.0535$) and the 6 day lag average flow had a protective effect ($p < 0.001$) on the probability of exceedence. Inference from this analysis suggests that , after accounting for the effects of TN and N23, increased flows reduce the

probability of exceedence and conversely, that reduced flows have the potential to increase the probability of exceedence. Station 15.5 was the only station where adding these covariates improved the regression fit to an R^2 above 0.20 Detailed results of this analysis is provided in Appendix L. The regression prediction (partial prediction plot hold TN and N23 at their respective means) for this station as a function of the 6 day lag average flow (log scale) is provided in Figure 5-25 and demonstrates that increased flows in the Wet season result in a predicted decrease in the probability of chlorophyll exceeding the threshold values at this station. Because probabilities cannot be above 1 or below zero, the confidence limits are asymetric relative to the prediction curve. Application of the regresssion for station 15.5 to the Minimum Flows scenario is provided in Chapter 6.

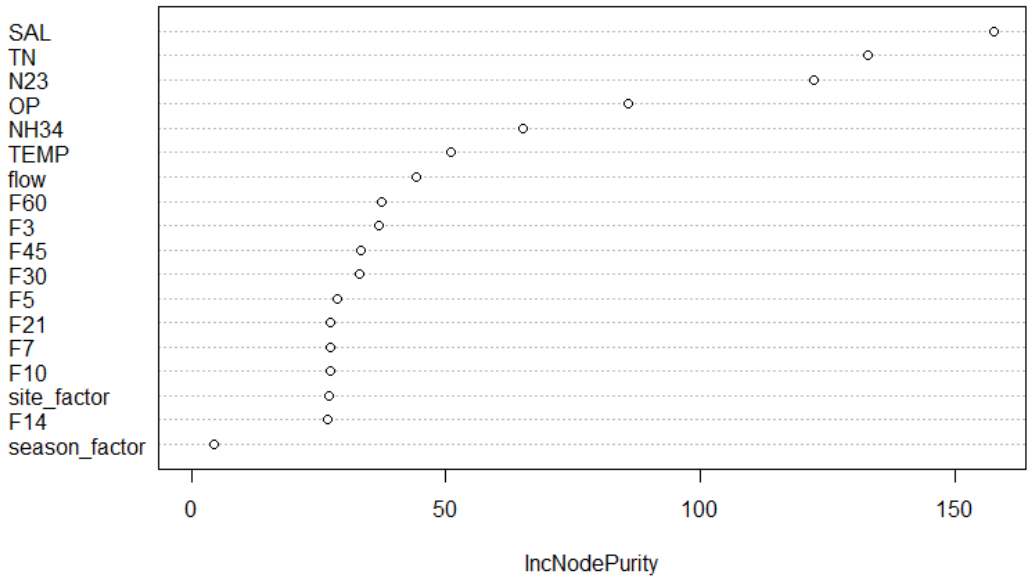


Figure 5-23. Variable Importance plot displaying most important constituents discriminating groups of chlorophyll concentrations throughout the LPR.

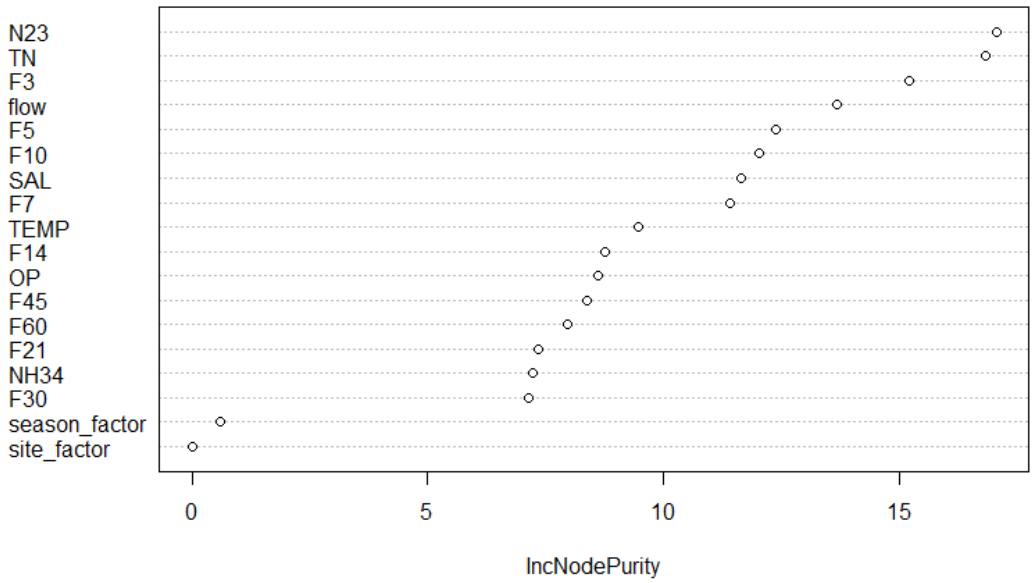


Figure 5-24. Variable Importance plot displaying most important constituents discriminating groups of chlorophyll concentrations throughout the LPR.

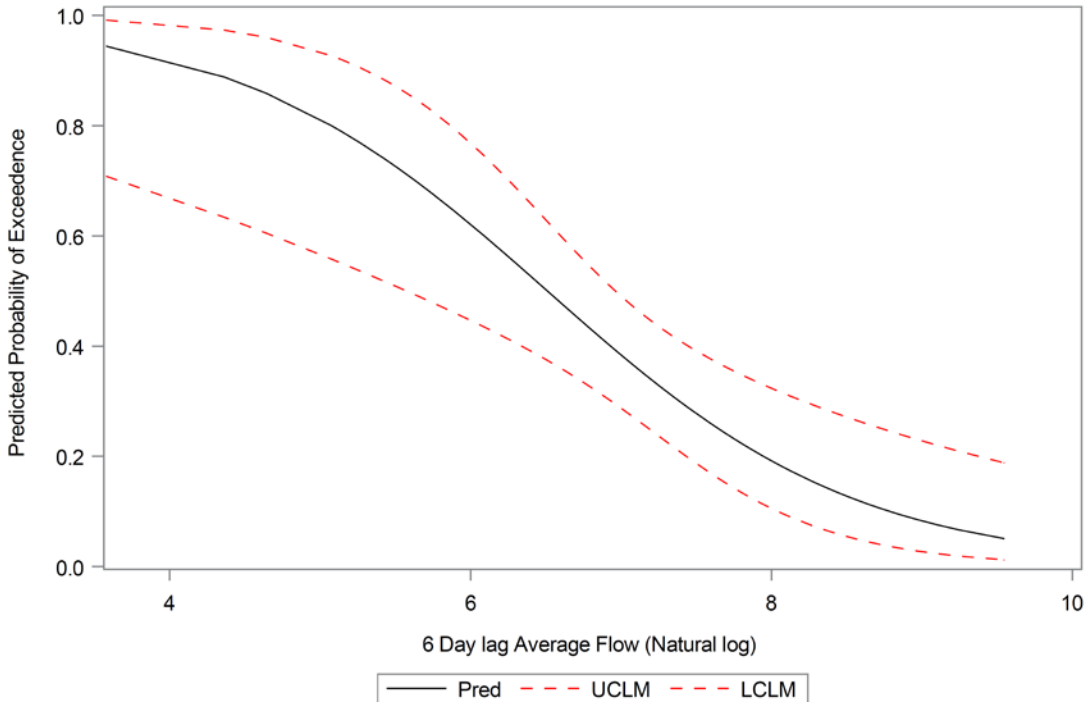


Figure 5-25. Regression predictions for Wet season chlorophyll predictions at Station 15.5 as a function of the 6 day lag average flow.

5.3.4 Dissolved Oxygen

Dissolved oxygen concentrations were sampled under a much more spatially intensive sampling program than the other water quality constituents described above with 16 sites sampled monthly in the lower LPR. To estimate the dissolved oxygen response to flows throughout the river, a "whole river" model was developed using a nonparametric surface response model to estimate DO concentration (and % saturation) response as a function of location in the LPR and natural log transformed flows. The model predictions suggest a spatial interaction where high flows suppress DO in the lower river and outside the mouth and increase DO concentrations and saturation in the upper river (Figure 5-26). There were almost no DO exceedences (i.e. in this case a value below the respective criterion) in the Dry season and correlations with all lag average flows were weak in the Dry season (see figures 5-14 and 5-15 above). Therefore, this seasonally specific analysis focused on Wet season DO exceedences. The Wet season surface response model suggested (Figure 5-27) a general decreasing DO saturation with increasing distance downstream and with increasing flows during the Wet season.

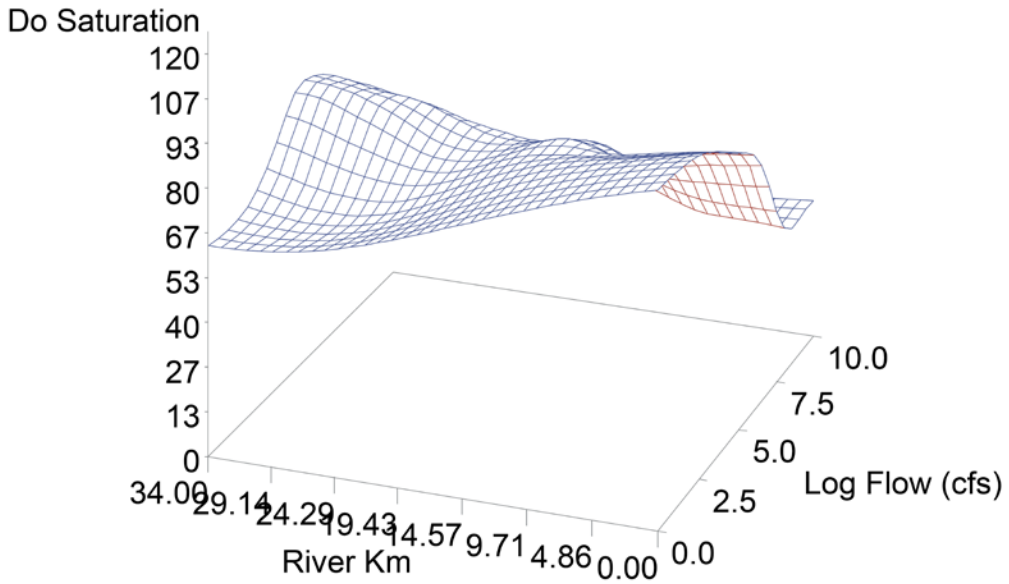


Figure 5-26. Response curve for bottom dissolved oxygen percent saturation as a function of location in the river and natural log transformed same day flows from the LPR.

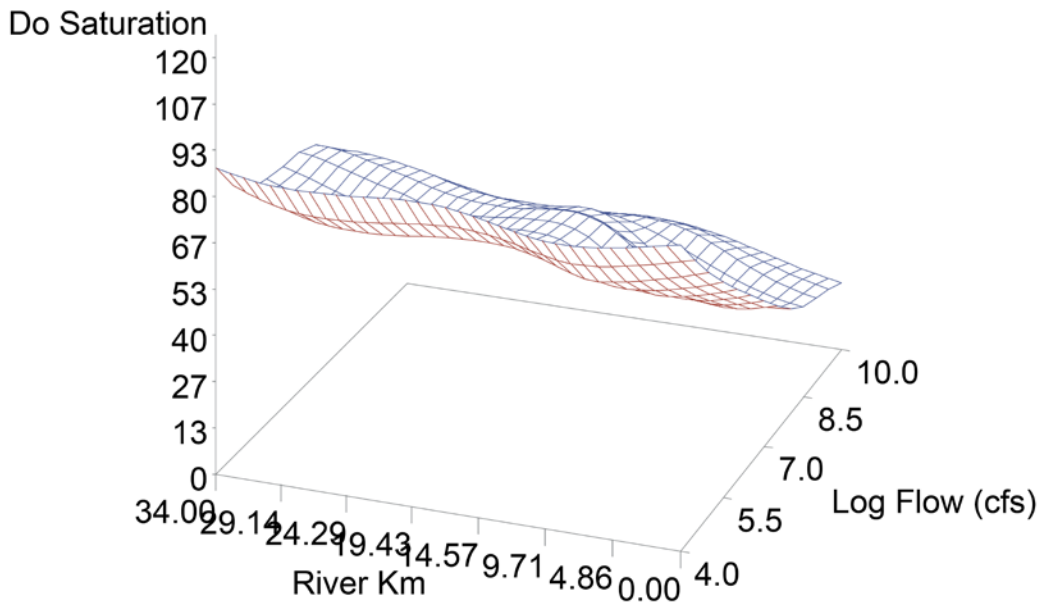


Figure 5-27. Response curve for bottom dissolved oxygen percent saturation as a function of location in the river and natural log transformed same day flows from the LPR during the Wet season.

Dissolved oxygen (%sat) threshold exceedences were much more pronounced in bottom waters and also more pronounced in the lowest part of the river and outside the river mouth (Figure 5-28).

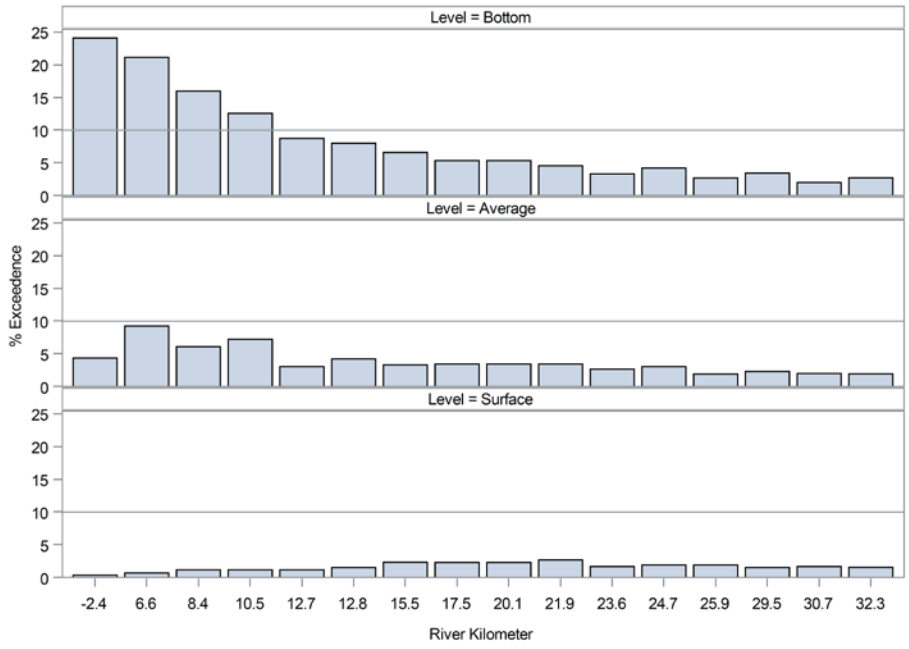


Figure 5-28. Dissolved oxygen exceedences in bottom, water column average, and surface waters for each station in the LPR.

Stepwise univariate logistic regression was used to select a single lag average flow term (natural log transformed) to define the relationship between flows and dissolved oxygen exceedences in the Wet season for each station (Table 5-2).

Table 5-2. Lag average flow term (natural log transformed) used in logistic regression for dissolved oxygen (% saturation) exceedences for Bottom and water column average ("Column") samples.

River Kilometer	Sample Level	Chi-Square Statistic	Lag Average (days)	Sample Level	Chi-Square Statistic	Lag Average (days)
-2.4	Bottom	29.9658	11	Column	12.8825	28
6.6	Bottom	38.173	8	Column	22.5953	11
8.4	Bottom	22.8498	6	Column	14.5278	11
10.5	Bottom	11.852	7	Column	12.445	8
12.7	Bottom	9.4729	6	Column	4.5247	13
12.8	Bottom	13.0085	6	Column	14.5378	11
15.5	Bottom	9.4752	7	Column	16.5757	8
17.5	Bottom	14.0839	8	Column	19.4946	12
20.1	Bottom	15.7854	8	Column	19.4946	12
21.9	Bottom	21.024	8	Column	19.4946	12
23.6	Bottom	22.0076	12	Column	19.8517	13
24.7	Bottom	15.9791	9	Column	18.898	13
25.9	Bottom	18.1729	14	Column	14.9967	13
29.5	Bottom	21.6377	13	Column	17.0159	14
30.7	Bottom	17.8243	14	Column	17.8243	14
32.3	Bottom	18.1729	14	Column	14.9251	13

The logistic regression analysis suggested an increased probability of a dissolved oxygen exceedence was positively associated with increasing flows throughout the LPR (Figure 5-29). The results were consistent using water column average DO saturation as well as bottom samples. Together these results indicate that flow reductions would not increase the probability of a DO criterion exceedence in the Wet season at any location sampled in the LPR and that, during the Dry season DO conditions are sufficient such that there were extremely few exceedences over the course of natural fluctuations in river conditions. Despite this finding an example application of the Minimum Flow scenario to the logistic regression results for the Wet season is provided in the following section for demonstration.

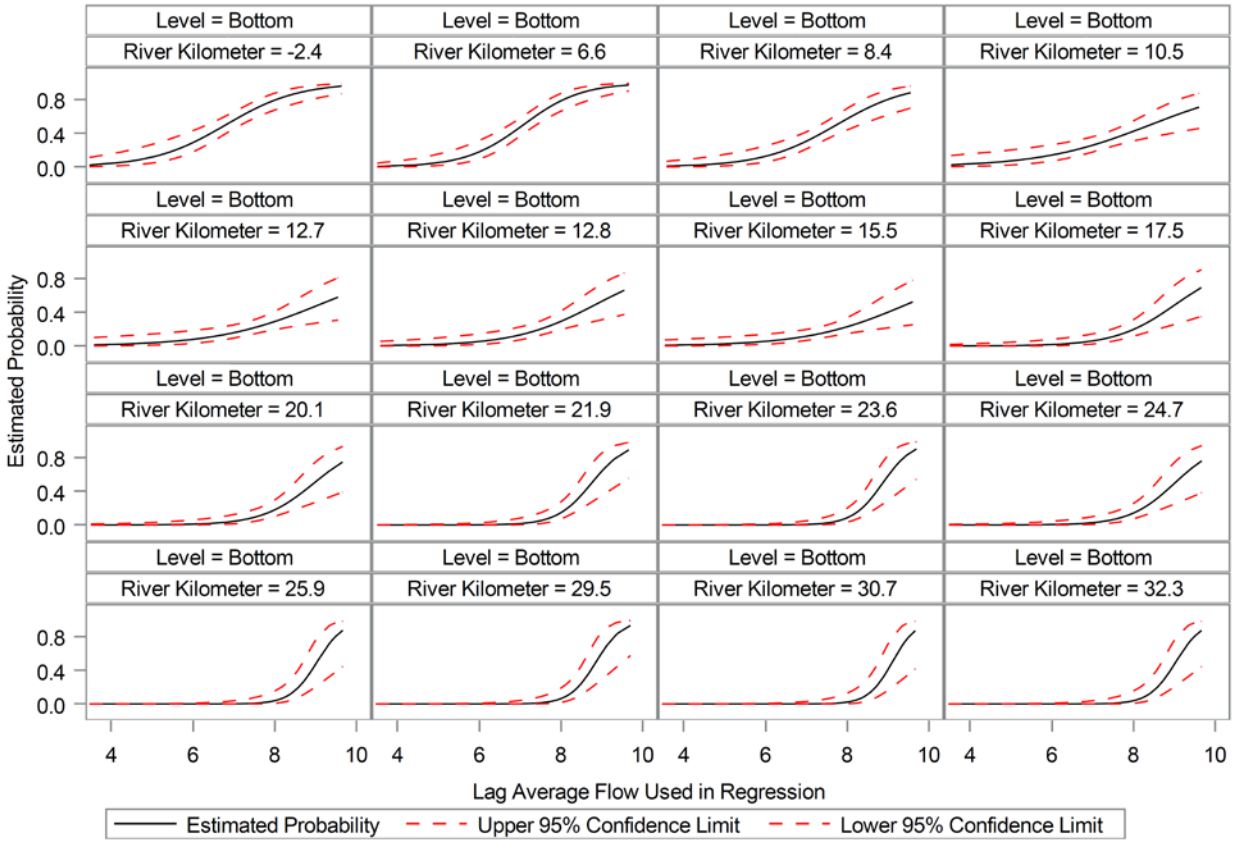


Figure 5-29. Results of univariate logistic regression on Wet season bottom dissolved oxygen (% saturation) for all fixed stations in the LPR.

6.0 APPLICATION OF MODELS TO MINIMUM FLOW SCENARIO

The results of predictive modeling suggested that there is little evidence that flow reductions in the range considered by the proposed minimum flows would have negative effects on water quality in the Lower Peace River. Nutrient concentrations tended to increase with increasing flows irrespective of season. Color also increased with increasing flows which matches the known seasonal cycle of southwest Florida tidal tributaries as they receive influx of tannic waters from wetlands within the watershed during the Wet season. Most exceedences of the State water quality criterion for dissolved oxygen were observed during the Wet season as the increased flows increased stratification and the likelihood of a dissolved oxygen criterion exceedence. Dissolved oxygen exceedences during the Dry season were rare.

The relationship between flows and chlorophyll a was complex and site specific but the natural variation in phytoplankton concentrations (as measured by chlorophyll a) tended to overwhelm any signal associated with potential flow reductions within the range of the minimum flow. There were a few instances where decreasing flows were associated with an increased probability of a chlorophyll exceedence under a specific set of conditions; however, these relationships were weak. For example, The logistic regression results for Station 15.5 described in Chapter 5 resulted in a predicted increased probability of a chlorophyll threshold exceedence as a function of 6 day lag average inflows from the LPR, after accounting for the effects of total nitrogen and nitrate+nitrate concentrations. This was the only site that met the criteria for evaluation with respect to evaluating the potential effects of the minimum flows on downstream water quality and it should be noted that there are limitations to this regression in that it was confined to the Wet season and relies on a relatively low sample size (i.e. 109 observations). However, for the sake of completeness, this regression was used to evaluate the potential effects of flow reductions associated with the proposed minimum flow for the LPR.

The proposed Minimum Flow scenario (which included both a "Baseline" and Minimum Flows" condition) was provided by the District and lag averages of both conditions were generated as described above and matched to the sample dates for station 15.5 as used in the development of the logistic regression model. Model predictions were then generated for these conditions and compared to the "Observed" condition (i.e. the condition that was the basis of the logistic regression model). The results of this scenario evaluation suggested that the majority of the predictions for the Minimum Flow condition were well within the confidence limits associated with the regression (Figure 6-1) though 8 of the 109 estimates fell outside of the upper confidence limit. This occurred when the 6 day lag average flows were between 837 and 1535 cfs. It is important to note that the predictions for the Minimum Flow scenario are shown as filled circles; however, there are also confidence intervals associated with these predictions (not shown for clarity). When accounting for uncertainty in the predictions, there is no evidence that the predictions under the Minimum Flow scenario were significantly different from the Observed condition.

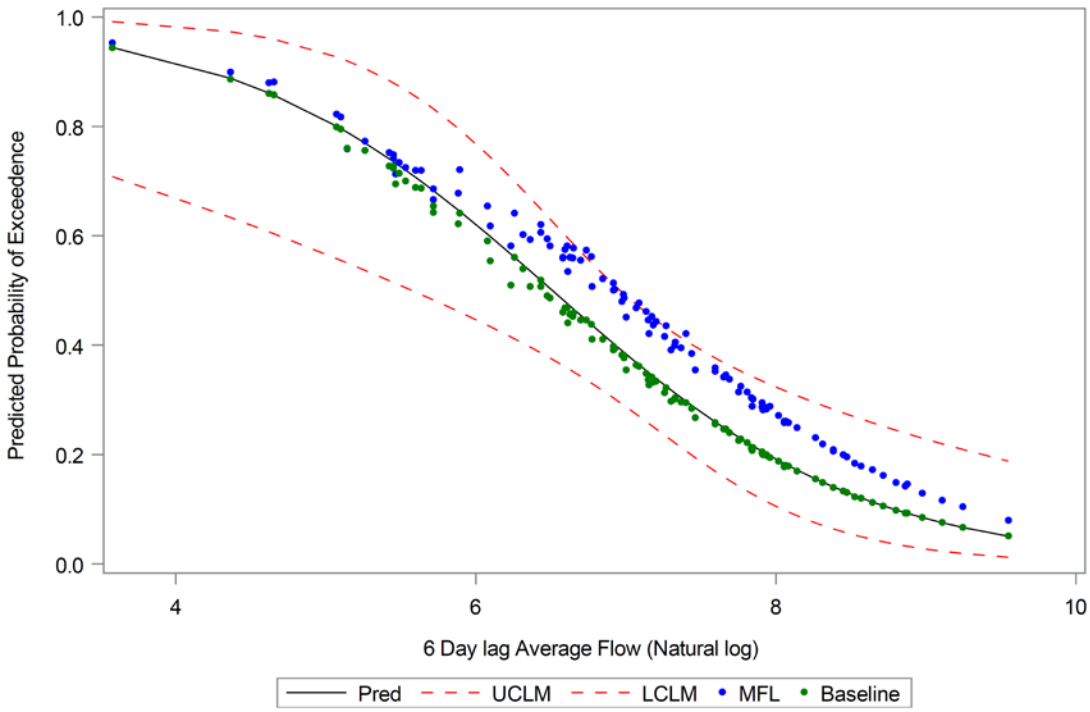


Figure 6-1. Wet Season logistic regression model predictions for chlorophyll at Station 15.5 under the observed (Pred), Minimum Flows, and Baseline conditions. Dashed lines are confidence limits of the Observed condition.

Site specific responses must also be evaluated within the context of the response throughout the entire domain. To evaluate the response throughout the river to the Minimum Flow scenario, the nonparametric surface response model was used to predict the chlorophyll response curve under the Observed and Minimum Flows conditions. The difference between the two scenarios was evaluated by comparing the cumulative distribution frequency (CDF) curves for the two scenarios within the context of the confidence intervals of the Observed condition. The results of this comparison can be seen in Figure 6-2 where the CDF curves for the Observed and Minimum Flow scenarios are nearly indistinguishable and inside the CDFs for the upper and lower confidence limits of the model. This provides further evidence that while there may be site specific associations between chlorophyll and flows, increasing concentrations in one location are likely offset by reductions in another location as the chlorophyll peak migrates along the river as a function of flow.

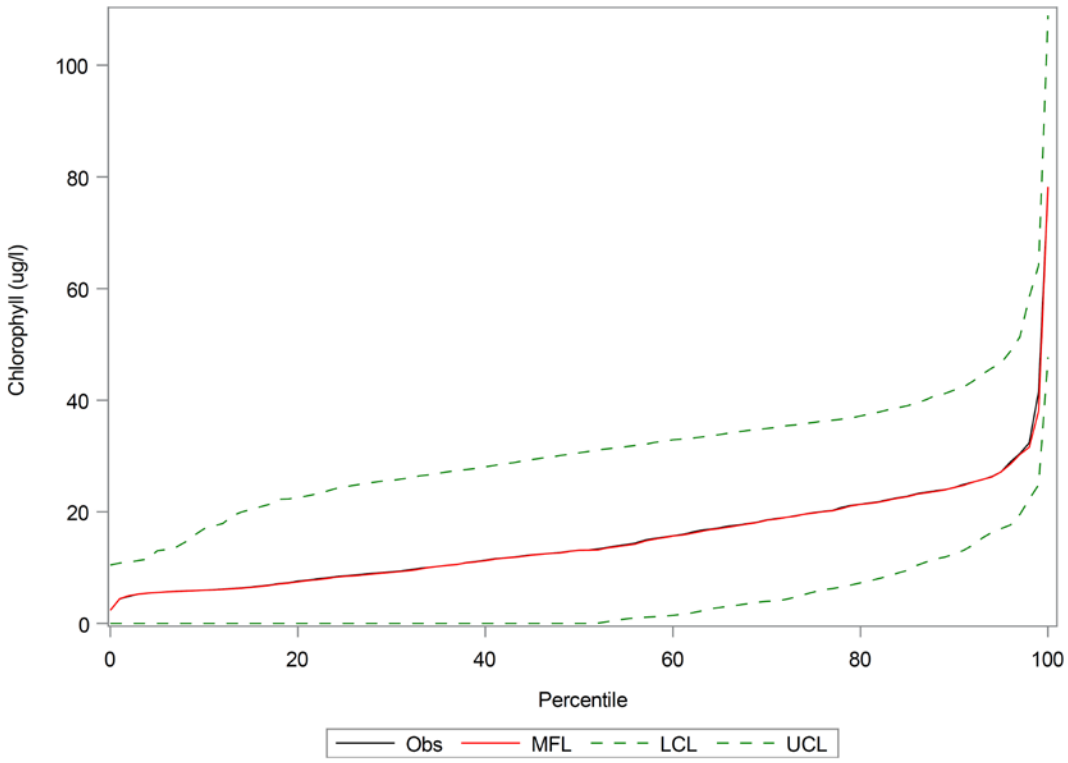


Figure 6-2. Cumulative distribution frequency curves for the observed (Obs) and Minimum Flows condition as well as the upper and lower confidence limits of the observed scenario.

The same methods applied to the dissolved oxygen logistic regression results suggest that the Minimum Flow condition (i.e. reduced flows) would reduce the probability of exceedence for DO throughout the LPR during the Wet season when exceedences were prevalent. An example of this scenario run for the sampling station at river kilometer 6.6 is provided in Figure 6-3. The full suite of results for this evaluation can be seen in Appendix M and suggest that reduced flows would not negatively impact dissolved oxygen exceedence probabilities in the LPR.

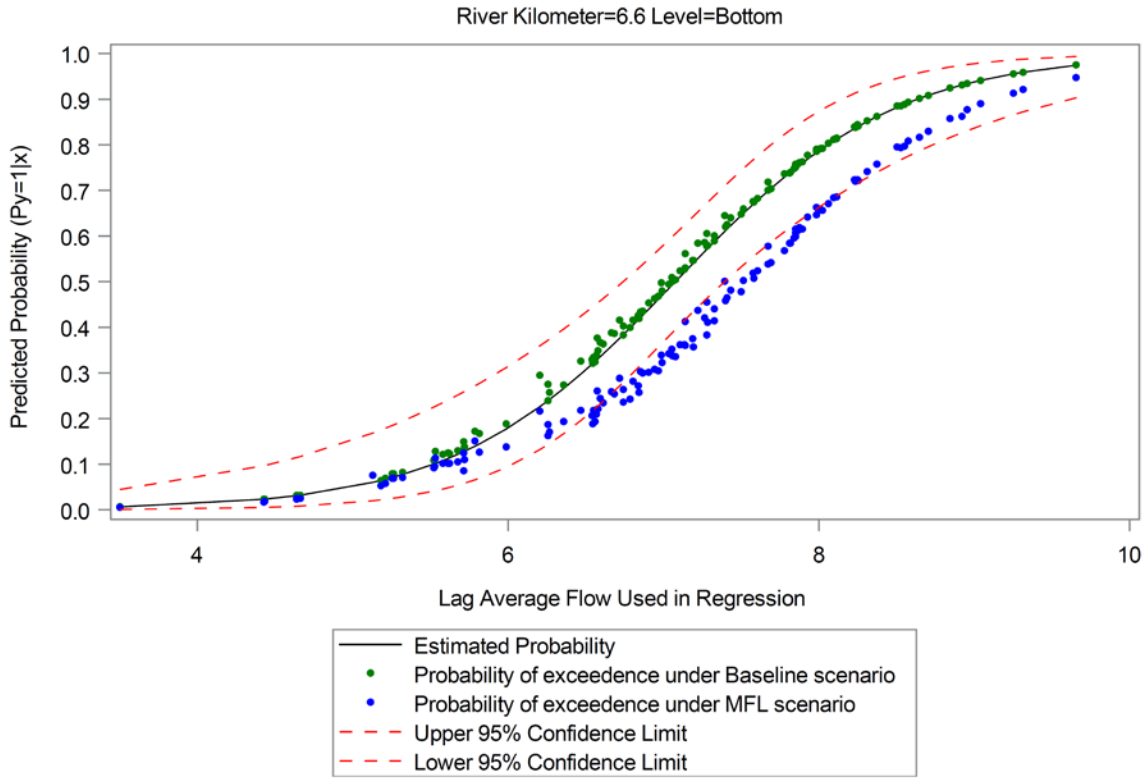


Figure 6-3. Wet season logistic regression predictions for bottom dissolved oxygen (% saturation) exceedences the Minimum Flow and Baseline conditions at river kilometer 6.6 in the LPR. X axis is natural log scale.

7.0 CONCLUSIONS

The analytical efforts described in this report add to a compendium of information on the water quality dynamics in the LPR and confirm many of the finding found in previous studies. Dissolved oxygen concentrations (and percent saturation levels) are suppressed as flows and stratification between surface and bottom waters increase. Even when evaluating only the Wet season dissolved oxygen dynamics, the predicted relationship between DO concentrations and flow were negative and the relationship between DO exceedences (i.e. values below the threshold) and flows were positive indicating that reduced flows would not negatively impact dissolved oxygen exceedence probabilities in the LPR. DO criterion exceedences were rare during the Dry season. Nutrient concentrations (TN and OP) were strongly positively related to flows with increasing concentrations throughout the LPR with increased flows. This result suggests flow reductions would not increase the risk to ecological components that may be susceptible to high nutrient concentrations.

The natural variation in phytoplankton concentrations (as measured by chlorophyll a) tended to overwhelm any signal associated with potential flow reductions within the range of the proposed Minimum Flow. The chlorophyll peak tends to migrate up and down the river as a function of seasonally based variations in inflow and while flow reductions may increase the probability of exceedence (i.e. values above the threshold) in one section of the river, it is likely to reduce the probability of exceedence in another section of the river resulting in a net zero change when evaluating the

exceedence rates over the entire system. Therefore, it was concluded from this research that there was no evidence from the statistical models developed as part of this analysis to suggest that the proposed Minimum Flow would have a deleterious effect on water quality to the extent it would pose any quantifiable additional risk to the water resources or ecology of the Lower Peace River.

8.0 REFERENCES

Atkins, Inc. 2014. An Analysis of the Relationships of Freshwater Inflow and Nutrient Loading with Chlorophyll Values and Primary Production Rates in the Lower Peace River. Prepared for Southwest Florida Water Management District.

Breiman, L. (2001), Random Forests, Machine Learning 45(1), 5-32.

Florida Administrative Code (F.A.C). 2016. Rule 62-302.532 Estuary-Specific Numeric Interpretations of the Narrative Nutrient Criterion.

Hothorn T., K. Hornik, and A. Zeileis. 2006. Unbiased recursive partitioning: a conditional inference framework. Journal of Computational and Graphical Statistics. 15:651–674.

Janicki Environmental, Inc. 2011. Proposed numeric nutrient criteria for the Charlotte Harbor National Estuary Program estuarine system. Prepared for Charlotte Harbor National Estuary Program.

Kim, Taeyun & Sheng, Y. (2010). Modeling water quality and hypoxia dynamics in Upper Charlotte Harbor, Florida, U.S.A. during 2000. Estuarine Coastal and Shelf Science 90:250-263.

Hosmer, D. and Lemeshow, S. (1989) Applied Logistic Regression. John Wiley & Sons, New York.

PBS&J, Inc. 2006. Assessment of Potential Shell Creek Impacts Resulting from Changes in City of Punta Gorda Facility Withdrawals. Final report submitted to the Peace River/Manasota Regional Water Supply Authority & City of Punta Gorda Utilities Department.

Rokach, L. and O. Maimon. 2008. Data mining with Decision Trees: Theory and Applications. Series in Machine perception artificial intelligence. Vol 69. World Scientific Publishing Co. Singapore.

Soranno, P. A., K. S. Cheruvelil, R. J. Stevenson, S. L. Rollins, S. W. Holden, S. Heaton, and E. Tong. 2008. A framework for developing ecosystem specific nutrient criteria: Integrating biological thresholds with predictive modeling. Limnol. and Oceanogr. 53:773-787.

SAS Institute Inc. 2014. SAS/STAT® 9.4 User's Guide. Cary, NC: SAS Institute Inc.

[SWFWMD] Southwest Florida Water Management District. 2010. Proposed Minimum Flows and Levels for the Lower Peace River and Shell Creek.

Tomasko, D.A., C. Anastasiou, and C. Kovach. 2006. Dissolved oxygen dynamics in Charlotte Harbor and its Contributing watershed, in response to hurricanes Charley, Frances, and Jeanne – impacts and recovery. Estuaries and Coasts 29:932-938.

Turner, R.E., N.N. Rabalais, B. Fry, N. Atilla, C.S. Milan, J.M. Lee, C. Normandeau, T.A. Oswald, E.M. Swenson, and D.A. Tomasko. 2006. Paleo-indicators and water quality change in the Charlotte Harbor estuary (Florida). Limnology and Oceanography 51:518-533.

APPENDIX A

Peace HBMP Moving Station Water Quality Summary Statistics

Obs	parameter	_TYPE_	_FREQ_	startdate	enddate	numsamps
1	Alkalinity (mg/L)	0	1081	16JUN83	05DEC18	1081
2	Chlorophyll a (ug/L)	0	1922	16JUN83	05DEC18	1922
3	Chlorophyll b (mg/m3)	0	1012	18FEB02	05DEC18	1012
4	Chlorophyll c (mg/m3)	0	1011	18FEB02	05DEC18	1011
5	Chloride (mg/L)	0	1933	16JUN83	05DEC18	1933
6	Color (pcu)	0	1934	16JUN83	05DEC18	1934
7	Bottom Conductivity (us/cm)	0	1936	16JUN83	05FEB19	1936
8	Surface Conductivity (us/cm)	0	1933	16JUN83	05FEB19	1933
9	DOC	0	670	18JAN90	11FEB03	670
10	Bottom Dissolved Oxygen (mg/L)	0	1936	16JUN83	05FEB19	1936
11	Surface Dissolved Oxygen (mg/L)	0	1933	16JUN83	05FEB19	1933
12	Extinction Coeefficient (m-1)	0	1903	16JUN83	05DEC18	1903
13	Iron (mg/L)	0	1618	18JAN90	05DEC18	1618
14	Nitrate + Nitrite Nitrogen (mg/L)	0	1933	16JUN83	05DEC18	1933
15	Ammonia/Ammonium (mg/L)	0	1930	16JUN83	05DEC18	1930
16	Organic Nitrogen (mg/L)	0	1934	16JUN83	05DEC18	1934
17	Orthophosphorus (mg/L)	0	1934	16JUN83	05DEC18	1934
18	1% light depth (m)	0	1903	16JUN83	05DEC18	1903
19	10% light depth (m)	0	1903	16JUN83	05DEC18	1903
20	50% light depth (m)	0	1903	16JUN83	05DEC18	1903
21	Bottom pH (std. units)	0	1931	16JUN83	05FEB19	1931
22	Surface pH (std. units)	0	1928	16JUN83	05FEB19	1928
23	Bottom Salinity (psu)	0	1936	16JUN83	05FEB19	1936
24	Surface Salinity (psu)	0	1933	16JUN83	05FEB19	1933
25	Silica (mg/L)	0	1929	16JUN83	05DEC18	1929
26	Total Dissolved Solids (mg/L)	0	95	12JAN11	05DEC18	95
27	Bottom Temperature (deg C)	0	1936	16JUN83	05FEB19	1936
28	Surface Temperature (deg C)	0	1933	16JUN83	05FEB19	1933
29	Total Kjeldahl Nitrogen (mg/L)	0	1934	16JUN83	05DEC18	1934
30	Total Nitrogen (mg/L)	0	1934	16JUN83	05DEC18	1934
31	Total Organic Carbon (mg/L)	0	670	18JAN90	11FEB03	670
32	Total Phosphorus (mg/L)	0	1081	16JUN83	05DEC18	1081
33	Total Suspended Solids (mg/L)	0	1093	03OCT00	05DEC18	1093
34	Turbidity (NTU)	0	655	18JAN90	11FEB03	655
35	Volatile Suspended Solids (mg/L)	0	1038	03OCT00	05DEC18	1038

Obs	parameter	STATION	numsamps	meanvalue	minvalue	maxvalue
1	Chlorophyll a (ug/L)	0 psu	423	10.30	0.10	133.00
2	Chlorophyll a (ug/L)	6 psu	424	23.90	0.14	992.00
3	Chlorophyll a (ug/L)	12 psu	424	25.25	0.19	821.00
4	Chlorophyll a (ug/L)	20 psu	424	16.13	0.20	307.00
5	Chlorophyll a (ug/L)	Station 18	227	11.56	0.12	86.60
6	Color (pcu)	0 psu	426	146.61	33.00	500.00
7	Color (pcu)	6 psu	427	125.07	23.00	550.00
8	Color (pcu)	12 psu	427	97.03	23.00	350.00
9	Color (pcu)	20 psu	427	63.23	5.00	250.00
10	Color (pcu)	Station 18	227	156.97	2.50	600.00
11	Bottom Conductivity (us/cm)	0 psu	427	1627.35	165.00	41922.00
12	Bottom Conductivity (us/cm)	6 psu	429	19666.75	8730.00	55435.00
13	Bottom Conductivity (us/cm)	12 psu	428	29575.95	19500.00	72173.00
14	Bottom Conductivity (us/cm)	20 psu	428	38352.53	29290.00	74684.00
15	Bottom Conductivity (us/cm)	Station 18	223	806.74	109.10	10952.00
16	Surface Conductivity (us/cm)	0 psu	426	666.09	7.00	5660.00
17	Surface Conductivity (us/cm)	6 psu	429	11185.46	25.00	24005.00
18	Surface Conductivity (us/cm)	12 psu	428	20775.92	7390.00	40827.00
19	Surface Conductivity (us/cm)	20 psu	426	32613.76	19800.00	41572.00
20	Surface Conductivity (us/cm)	Station 18	223	768.60	111.20	10020.00
21	Bottom Dissolved Oxygen (mg/L)	0 psu	427	6.05	0.20	13.05
22	Bottom Dissolved Oxygen (mg/L)	6 psu	429	5.15	0.07	12.11
23	Bottom Dissolved Oxygen (mg/L)	12 psu	428	5.21	0.07	11.10
24	Bottom Dissolved Oxygen (mg/L)	20 psu	428	5.37	0.15	12.43
25	Bottom Dissolved Oxygen (mg/L)	Station 18	223	6.24	0.58	12.84
26	Surface Dissolved Oxygen (mg/L)	0 psu	426	6.50	0.30	14.61
27	Surface Dissolved Oxygen (mg/L)	6 psu	429	6.79	2.89	13.96
28	Surface Dissolved Oxygen (mg/L)	12 psu	428	7.18	3.30	18.55
29	Surface Dissolved Oxygen (mg/L)	20 psu	427	6.92	3.45	13.21
30	Surface Dissolved Oxygen (mg/L)	Station 18	223	6.67	1.15	15.59
31	Orthophosphorus (mg/L)	0 psu	426	0.75	0.12	2.08
32	Orthophosphorus (mg/L)	6 psu	427	0.54	0.18	2.19
33	Orthophosphorus (mg/L)	12 psu	427	0.39	0.15	1.14
34	Orthophosphorus (mg/L)	20 psu	427	0.24	0.07	1.03
35	Orthophosphorus (mg/L)	Station 18	227	0.80	0.33	1.85
36	Bottom pH (std. units)	0 psu	426	7.27	4.86	9.30
37	Bottom pH (std. units)	6 psu	428	7.32	3.63	8.37
38	Bottom pH (std. units)	12 psu	426	7.51	4.49	8.38
39	Bottom pH (std. units)	20 psu	427	7.67	5.60	8.45

Obs	parameter	STATION	numsamps	meanvalue	minvalue	maxvalue
40	Bottom pH (std. units)	Station 18	222	7.35	4.72	8.83
41	Surface pH (std. units)	0 psu	425	7.39	4.89	9.73
42	Surface pH (std. units)	6 psu	428	7.40	5.08	8.51
43	Surface pH (std. units)	12 psu	427	7.61	5.69	9.07
44	Surface pH (std. units)	20 psu	426	7.70	4.97	9.06
45	Surface pH (std. units)	Station 18	222	7.47	4.93	8.91
46	Bottom Salinity (psu)	0 psu	427	0.81	0.00	26.83
47	Bottom Salinity (psu)	6 psu	429	11.78	4.87	36.84
48	Bottom Salinity (psu)	12 psu	428	18.33	11.61	49.52
49	Bottom Salinity (psu)	20 psu	428	24.40	17.99	51.50
50	Bottom Salinity (psu)	Station 18	223	0.40	0.00	6.17
51	Surface Salinity (psu)	0 psu	426	0.24	0.00	2.86
52	Surface Salinity (psu)	6 psu	429	6.26	0.00	12.01
53	Surface Salinity (psu)	12 psu	428	12.30	3.87	19.92
54	Surface Salinity (psu)	20 psu	427	20.45	11.62	71.80
55	Surface Salinity (psu)	Station 18	223	0.38	0.00	5.71
56	Silica (mg/L)	0 psu	425	4.55	0.14	15.60
57	Silica (mg/L)	6 psu	426	3.93	0.37	13.90
58	Silica (mg/L)	12 psu	425	3.24	0.01	12.00
59	Silica (mg/L)	20 psu	426	2.33	0.01	11.30
60	Silica (mg/L)	Station 18	227	6.19	0.36	14.20
61	Bottom Temperature (deg C)	0 psu	427	24.62	9.66	32.47
62	Bottom Temperature (deg C)	6 psu	429	24.87	10.75	31.60
63	Bottom Temperature (deg C)	12 psu	428	24.77	10.99	31.54
64	Bottom Temperature (deg C)	20 psu	428	24.62	10.44	31.60
65	Bottom Temperature (deg C)	Station 18	223	24.56	9.28	31.25
66	Surface Temperature (deg C)	0 psu	426	24.97	9.57	33.88
67	Surface Temperature (deg C)	6 psu	429	25.26	10.89	33.60
68	Surface Temperature (deg C)	12 psu	428	25.09	11.50	33.67
69	Surface Temperature (deg C)	20 psu	427	24.81	10.91	32.50
70	Surface Temperature (deg C)	Station 18	223	24.87	9.38	31.83
71	Total Nitrogen (mg/L)	0 psu	426	1.55	0.00	7.16
72	Total Nitrogen (mg/L)	6 psu	427	1.39	0.00	10.84
73	Total Nitrogen (mg/L)	12 psu	427	1.15	0.00	7.94
74	Total Nitrogen (mg/L)	20 psu	427	0.83	0.00	3.89
75	Total Nitrogen (mg/L)	Station 18	227	1.49	0.43	4.21
76	Total Phosphorus (mg/L)	0 psu	237	0.80	0.21	1.51
77	Total Phosphorus (mg/L)	6 psu	237	0.58	0.28	1.04
78	Total Phosphorus (mg/L)	12 psu	237	0.43	0.02	0.89

Obs	parameter	STATION	numsamps	meanvalue	minvalue	maxvalue
79	Total Phosphorus (mg/L)	20 psu	237	0.25	0.04	0.77
80	Total Phosphorus (mg/L)	Station 18	133	0.79	0.42	1.44
81	Total Suspended Solids (mg/L)	0 psu	218	4.91	0.57	68.60
82	Total Suspended Solids (mg/L)	6 psu	219	6.93	0.57	36.00
83	Total Suspended Solids (mg/L)	12 psu	219	8.49	0.57	119.00
84	Total Suspended Solids (mg/L)	20 psu	219	9.56	0.57	61.30
85	Total Suspended Solids (mg/L)	Station 18	218	4.80	0.57	24.00
86	Turbidity (NTU)	0 psu	155	3.56	0.80	19.90
87	Turbidity (NTU)	6 psu	155	3.80	1.00	11.30
88	Turbidity (NTU)	12 psu	155	3.59	1.04	27.50
89	Turbidity (NTU)	20 psu	155	2.90	0.50	11.10
90	Turbidity (NTU)	Station 18	35	2.68	0.90	8.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=0 psu

Moments			
N	237	**Sum Weights**	237
Mean	60.6248945	**Sum Observations**	14368.1
Std Deviation	17.7802336	**Variance**	316.136708
Skewness	0.24752135	**Kurtosis**	-0.4249328
Uncorrected SS	945672.81	**Corrected SS**	74608.2631
Coeff Variation	29.3282715	**Std Error Mean**	1.15495029

Basic Statistical Measures			
Location		**Variability**	
Mean	60.62489	**Std Deviation**	17.78023
Median	59.90000	**Variance**	316.13671
Mode	47.00000	**Range**	101.00000
		Interquartile Range	27.00000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

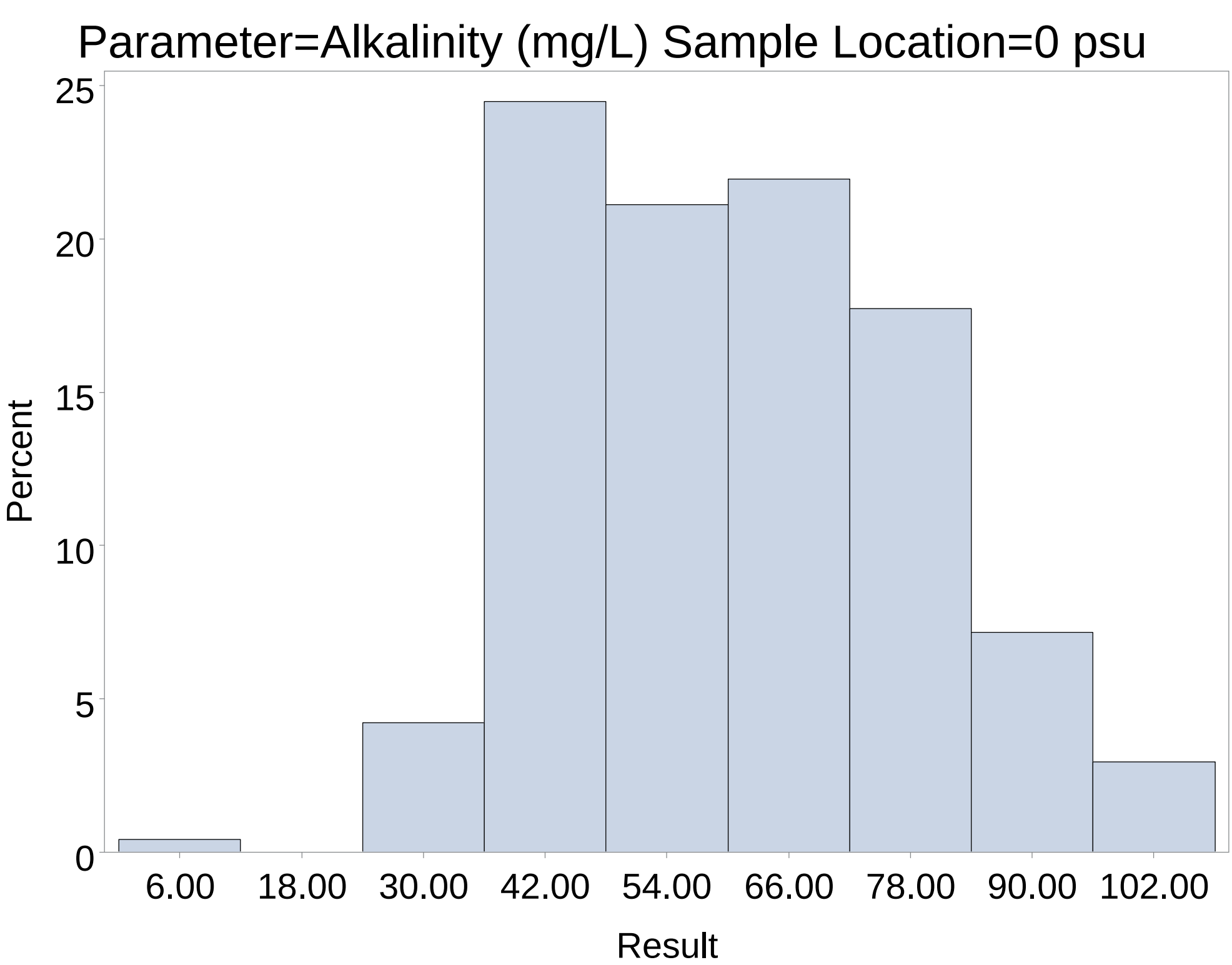
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Test	**Statistic**		**p Value**	
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Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	106.0
99%	102.0
95%	92.7
90%	85.1
75% Q3	73.4
50% Median	59.9
25% Q1	46.4
10%	38.9
5%	36.0
1%	29.5
0% Min	5.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.0	139	98.1	191
27.9	44	98.4	167
29.5	148	102.0	228
30.5	220	103.0	202
31.8	4	106.0	200


Parameter=Alkalinity (mg/L) Sample Location=0 psu
Percent
25
20
15
10
5
0
6.00
18.00
30.00
42.00
54.00
66.00
78.00
90.00
102.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=6 psu

Moments			
N	237	**Sum Weights**	237
Mean	72.9109705	**Sum Observations**	17279.9
Std Deviation	11.3529231	**Variance**	128.888862
Skewness	-1.3443205	**Kurtosis**	6.6916972
Uncorrected SS	1290312.05	**Corrected SS**	30417.7715
Coeff Variation	15.5709395	**Std Error Mean**	0.7374516

Basic Statistical Measures			
Location		**Variability**	
Mean	72.91097	**Std Deviation**	11.35292
Median	73.70000	**Variance**	128.88886
Mode	68.70000	**Range**	99.60000
		Interquartile Range	14.40000

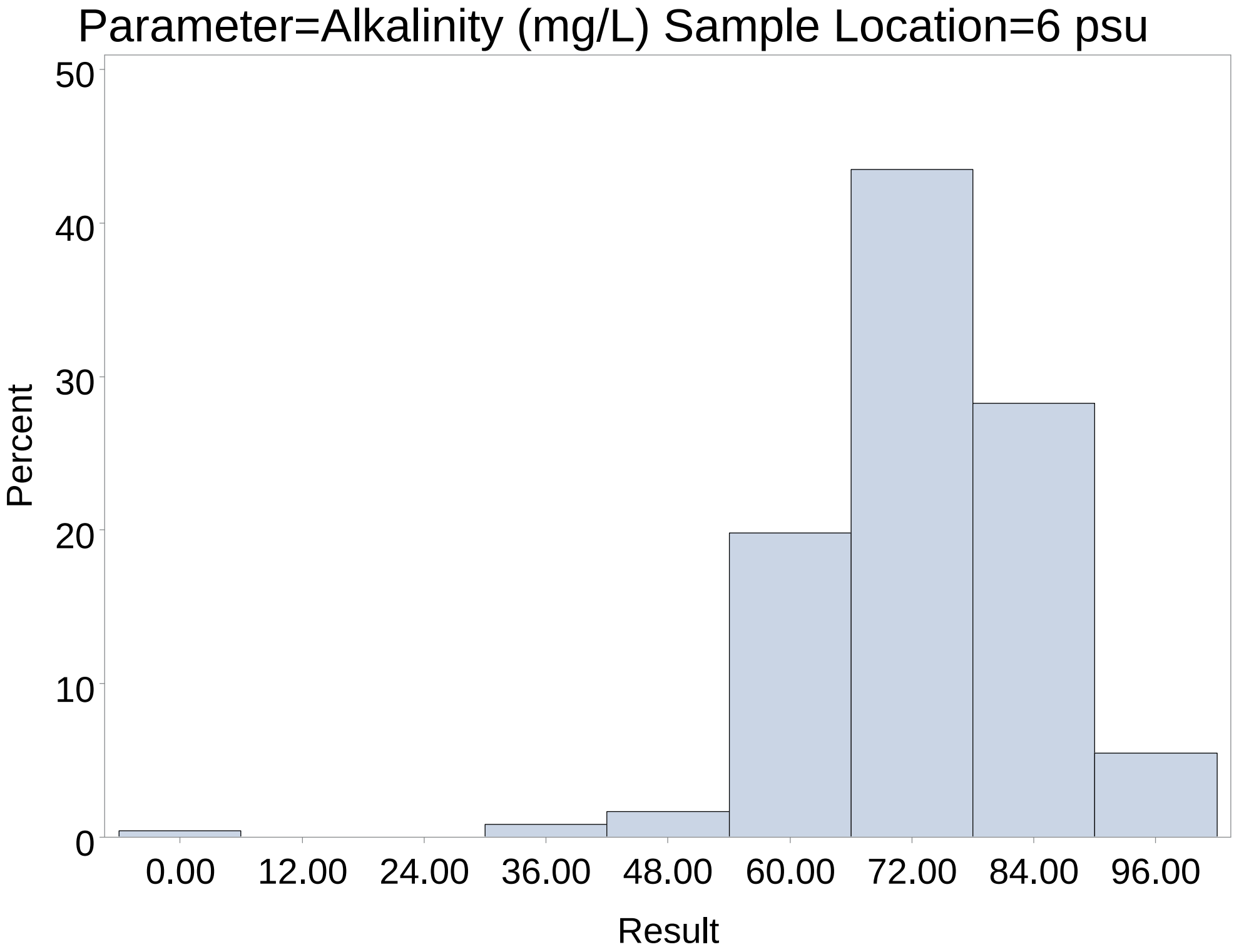
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Test	**Statistic**		**p Value**	
Student's t	**t**	98.86882	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	100.0
99%	93.1
95%	90.0
90%	85.4
75% Q3	80.6
50% Median	73.7
25% Q1	66.2
10%	60.3
5%	56.3
1%	40.5
0% Min	0.4

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	400	92.4	449
32.9	384	92.7	438
40.5	281	93.1	328
42.0	414	93.2	439
50.4	416	100.0	331


Parameter=Alkalinity (mg/L) Sample Location=6 psu
Percent
50
40
30
20
10
0
0.00
12.00
24.00
36.00
48.00
60.00
72.00
84.00
96.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=12 psu

Moments			
N	237	**Sum Weights**	237
Mean	85.9185654	**Sum Observations**	20362.7
Std Deviation	11.1254401	**Variance**	123.775417
Skewness	-1.3756464	**Kurtosis**	16.9621608
Uncorrected SS	1778744.97	**Corrected SS**	29210.9983
Coeff Variation	12.9488196	**Std Error Mean**	0.72267499

Basic Statistical Measures			
Location		**Variability**	
Mean	85.91857	**Std Deviation**	11.12544
Median	86.10000	**Variance**	123.77542
Mode	82.00000	**Range**	145.60000
		Interquartile Range	12.40000

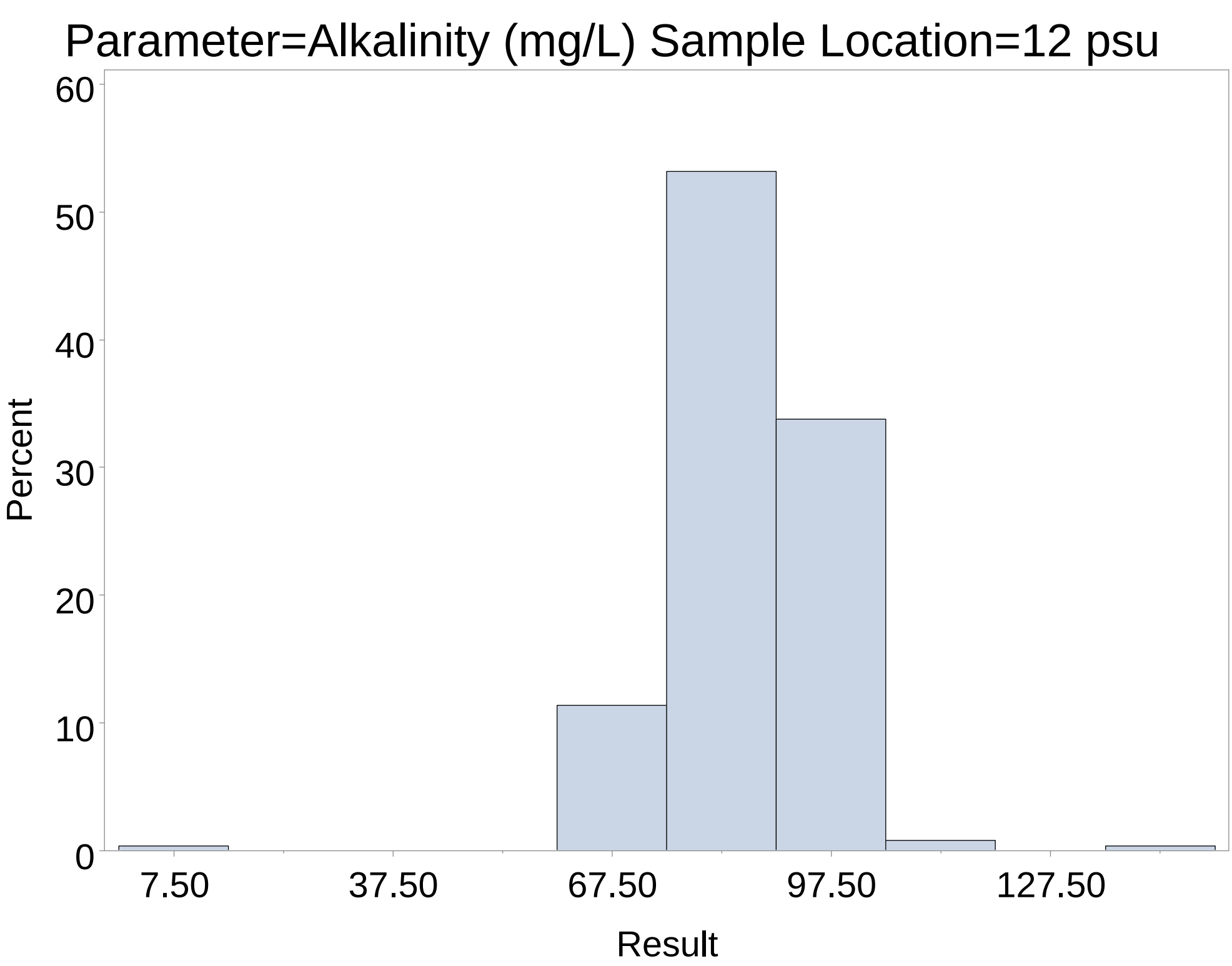
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Test	**Statistic**		**p Value**	
Student's t	**t**	118.8896	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	146.0
99%	105.8
95%	100.0
90%	97.4
75% Q3	92.8
50% Median	86.1
25% Q1	80.4
10%	74.2
5%	70.2
1%	63.6
0% Min	0.4

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	637	103.0	676
60.0	652	103.3	603
63.6	538	105.8	602
63.8	598	108.0	675
64.0	707	146.0	655


Parameter=Alkalinity (mg/L) Sample Location=12 psu
Percent
60
50
40
30
20
10
0
7.50
37.50
67.50
97.50
127.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=20 psu

Moments			
N	237	**Sum Weights**	237
Mean	99.7599156	**Sum Observations**	23643.1
Std Deviation	8.3543831	**Variance**	69.7957169
Skewness	-0.4142307	**Kurtosis**	2.88224757
Uncorrected SS	2375105.45	**Corrected SS**	16471.7892
Coeff Variation	8.37448894	**Std Error Mean**	0.5426755

Basic Statistical Measures			
Location		**Variability**	
Mean	99.7599	**Std Deviation**	8.35438
Median	100.0000	**Variance**	69.79572
Mode	104.0000	**Range**	72.20000
		Interquartile Range	9.50000

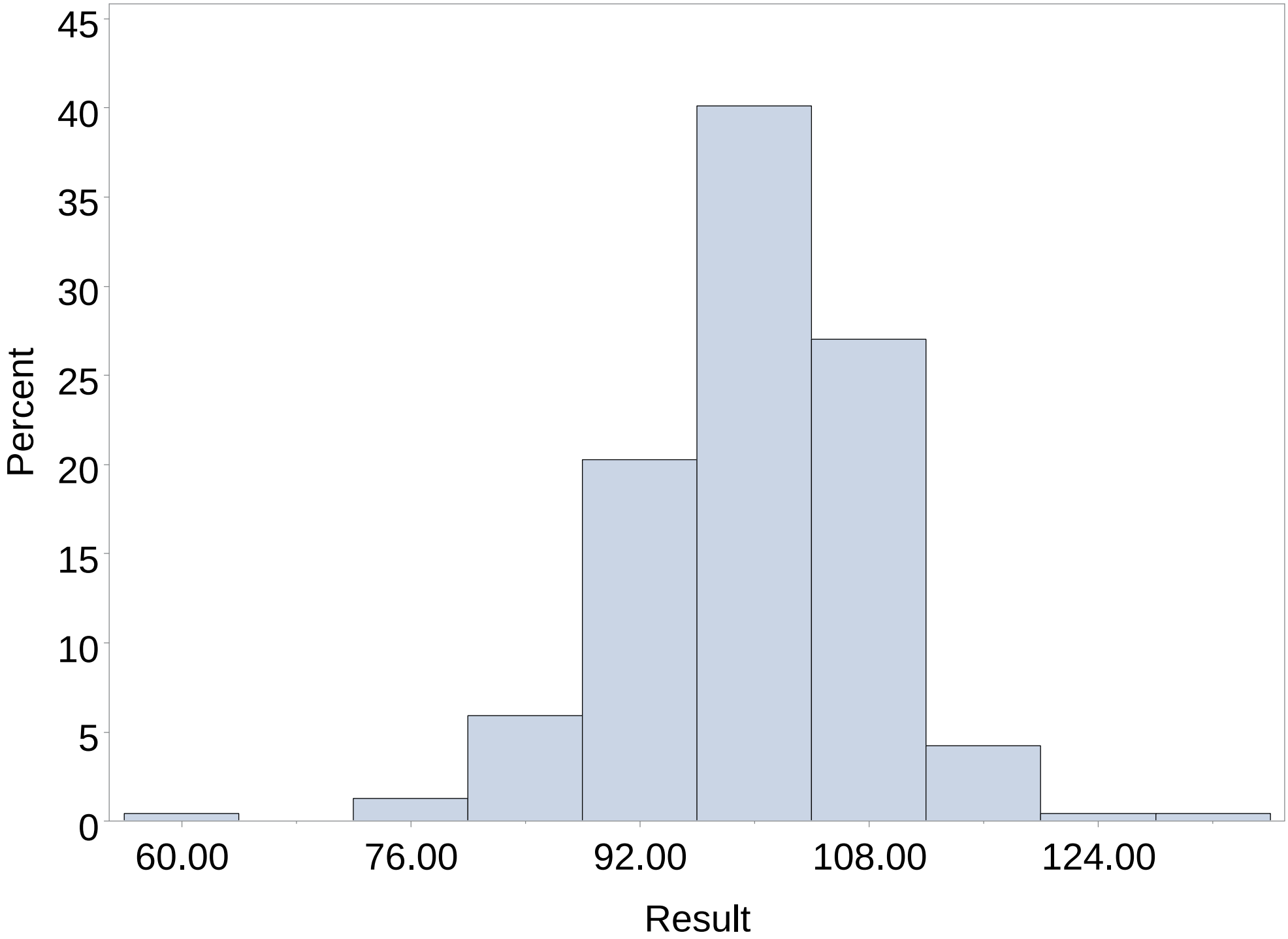
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	183.8298	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	132.0
99%	115.0
95%	112.0
90%	109.6
75% Q3	105.0
50% Median	100.0
25% Q1	95.5
10%	89.0
5%	85.9
1%	76.1
0% Min	59.8

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
59.8	743	115	752
74.4	947	115	761
76.1	889	115	885
77.5	891	127	864
82.5	930	132	792


Parameter=Alkalinity (mg/L) Sample Location=20 psu
Percent
45
40
35
30
25
20
15
10
5
0
60.00
76.00
92.00
108.00
124.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=Station 18

Moments			
N	133	**Sum Weights**	133
Mean	67.4300752	**Sum Observations**	8968.2
Std Deviation	21.5838393	**Variance**	465.862119
Skewness	0.04221406	**Kurtosis**	-1.0037972
Uncorrected SS	666220.2	**Corrected SS**	61493.7997
Coeff Variation	32.0092173	**Std Error Mean**	1.87155622

Basic Statistical Measures			
Location		**Variability**	
Mean	67.43008	**Std Deviation**	21.58384
Median	67.00000	**Variance**	465.86212
Mode	92.00000	**Range**	91.20000
		Interquartile Range	41.00000

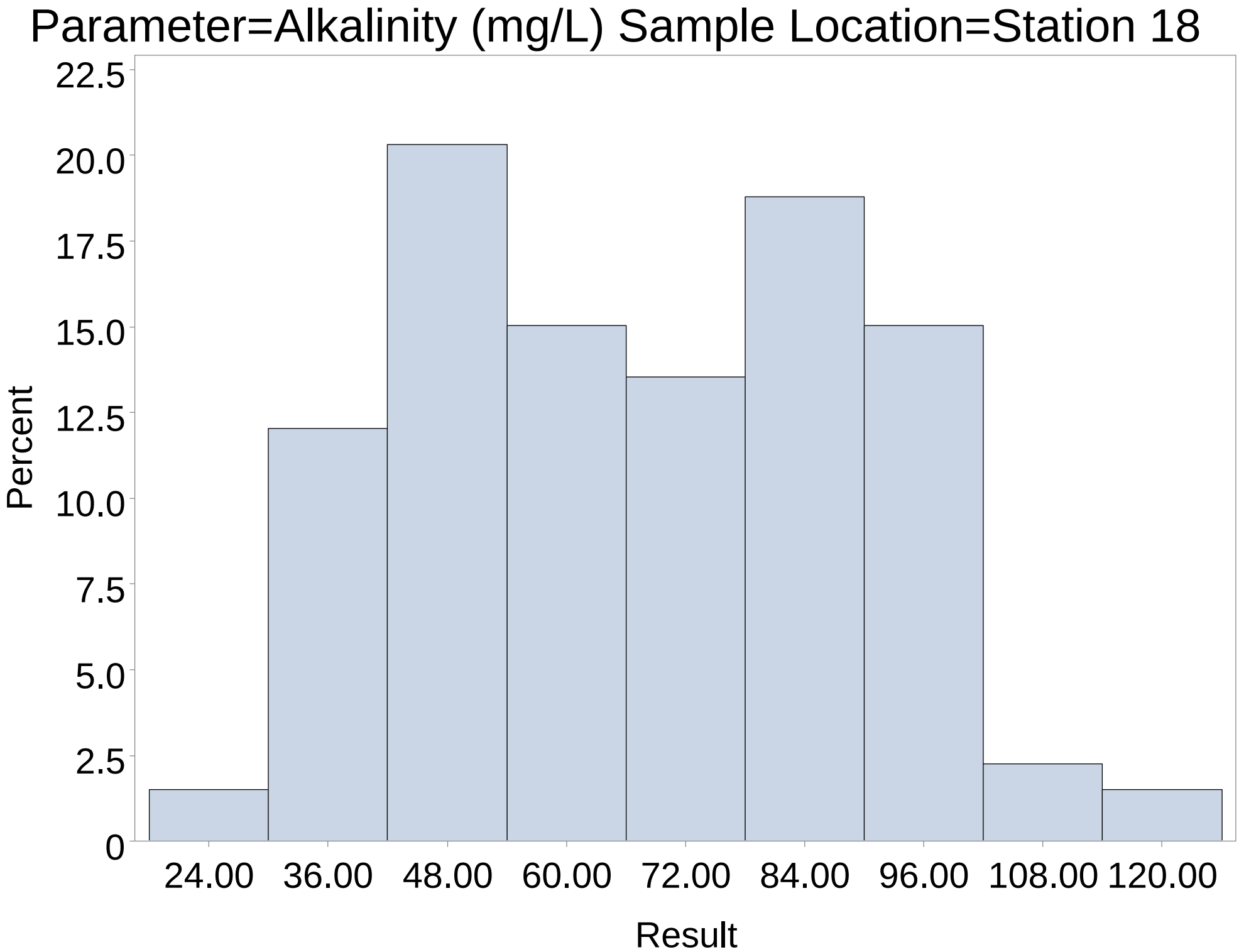
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.02888	**Pr > |t|**	<.0001
Sign	**M**	66.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	4455.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	120.0
99%	116.0
95%	96.0
90%	94.0
75% Q3	87.5
50% Median	67.0
25% Q1	46.5
10%	38.0
5%	34.0
1%	29.0
0% Min	28.8

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
28.8	984	102	951
29.0	1064	104	992
30.0	1067	105	949
33.0	1043	116	1062
33.8	969	120	991


Parameter=Alkalinity (mg/L) Sample Location=Station 18
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
24.00
36.00
48.00
60.00
72.00
84.00
96.00
108.00
120.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=0 psu

Moments			
N	423	**Sum Weights**	423
Mean	10.297234	**Sum Observations**	4355.73
Std Deviation	12.4708444	**Variance**	155.52196
Skewness	4.14573408	**Kurtosis**	27.003236
Uncorrected SS	110482.238	**Corrected SS**	65630.2671
Coeff Variation	121.108682	**Std Error Mean**	0.6063532

Basic Statistical Measures			
Location		**Variability**	
Mean	10.29723	**Std Deviation**	12.47084
Median	6.53000	**Variance**	155.52196
Mode	3.46000	**Range**	132.90000
		Interquartile Range	7.90000

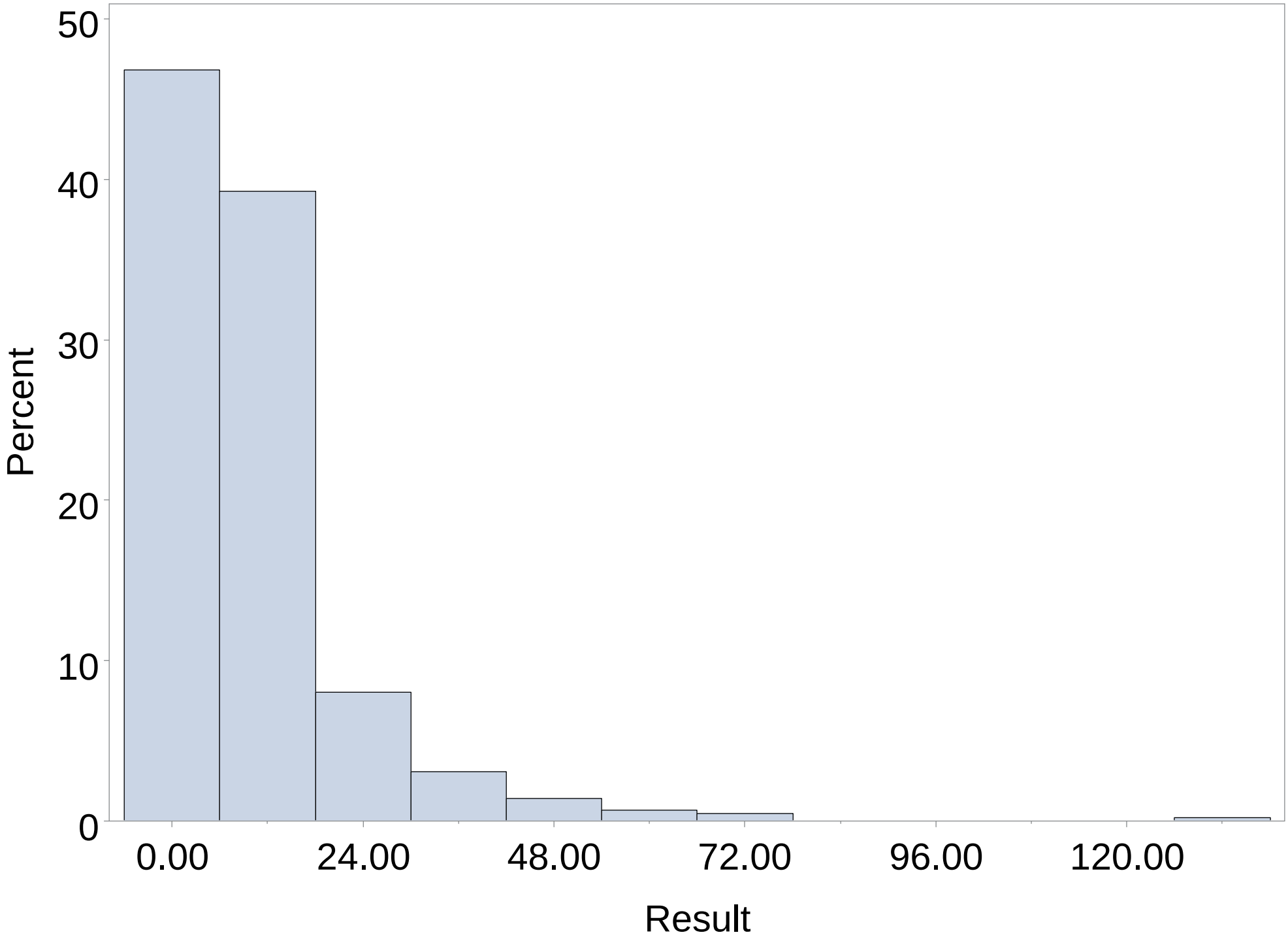
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.98224	**Pr > |t|**	<.0001
Sign	**M**	211.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44838	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	133.00
99%	58.00
95%	33.90
90%	21.50
75% Q3	11.40
50% Median	6.53
25% Q1	3.50
10%	2.50
5%	2.00
1%	1.02
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	1314	58.0	1339
1.00	1271	62.5	1341
1.00	1174	74.1	1162
1.00	1173	76.4	1147
1.02	1291	133.0	1493


Parameter=Chlorophyll a (ug/L) Sample Location=0 psu
50
40
30
20
10
0
Percent
0.00
24.00
48.00
72.00
96.00
120.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=6 psu

Moments			
N	424	**Sum Weights**	424
Mean	23.9022547	**Sum Observations**	10134.556
Std Deviation	53.1959268	**Variance**	2829.80663
Skewness	14.5926388	**Kurtosis**	260.649497
Uncorrected SS	1439246.94	**Corrected SS**	1197008.2
Coeff Variation	222.556104	**Std Error Mean**	2.58342258

Basic Statistical Measures			
Location		**Variability**	
Mean	23.90225	**Std Deviation**	53.19593
Median	13.20000	**Variance**	2830
Mode	3.46000	**Range**	991.86400
		Interquartile Range	17.52000

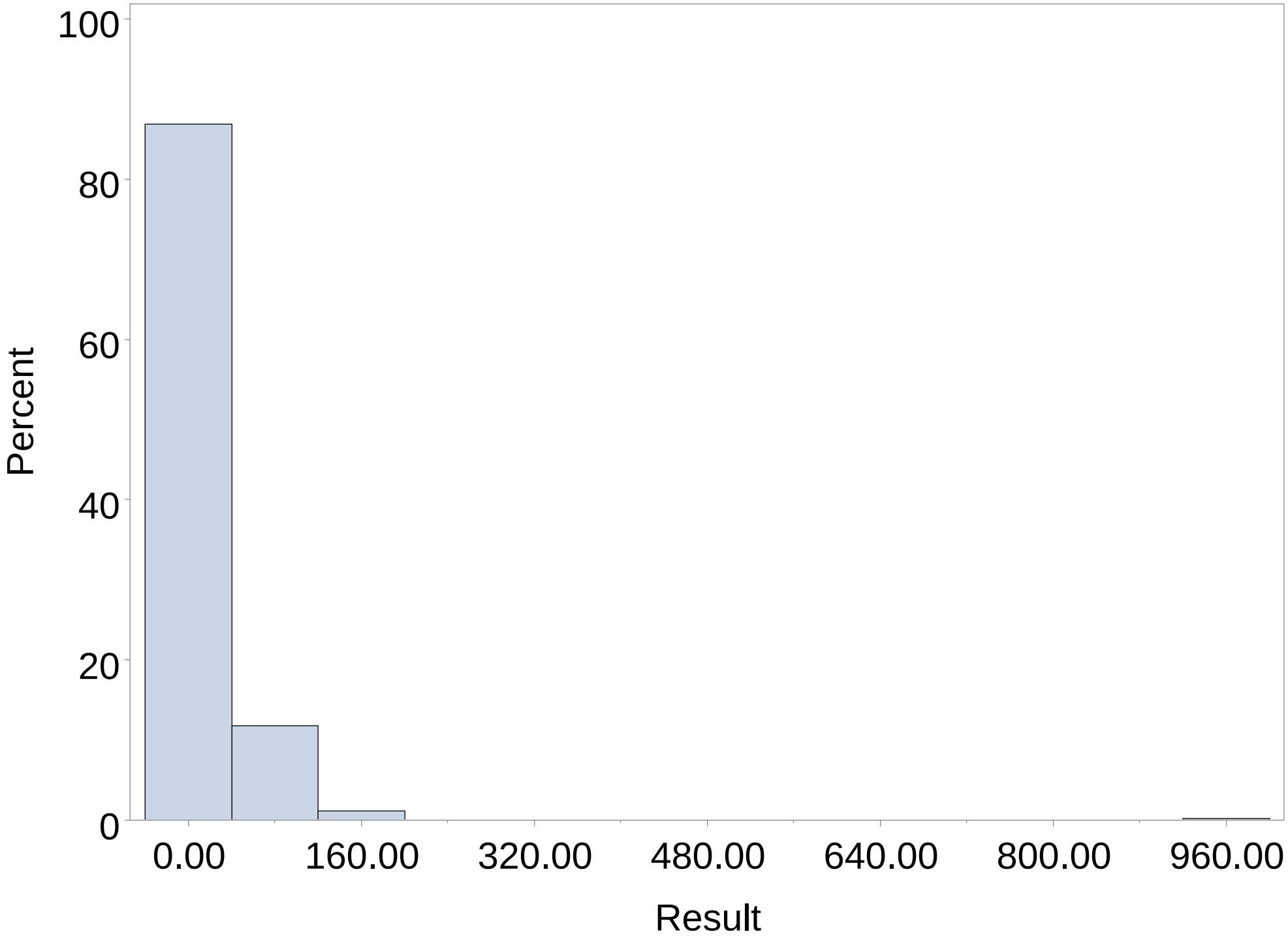
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.252166	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	992.000
99%	141.800
95%	73.000
90%	51.200
75% Q3	25.050
50% Median	13.200
25% Q1	7.530
10%	4.700
5%	3.700
1%	2.200
0% Min	0.136

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.136	1737	141.8	1641
1.600	1569	151.1	1520
2.100	1666	162.0	1709
2.100	1640	193.0	1875
2.200	1608	992.0	1828


Parameter=Chlorophyll a (ug/L) Sample Location=6 psu
100
80
60
40
20
0
Percent
0.00
160.00
320.00
480.00
640.00
800.00
960.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=12 psu

Moments			
N	424	**Sum Weights**	424
Mean	25.247059	**Sum Observations**	10704.753
Std Deviation	50.7442824	**Variance**	2574.9822
Skewness	10.454102	**Kurtosis**	148.201083
Uncorrected SS	1359481	**Corrected SS**	1089217.47
Coeff Variation	200.990866	**Std Error Mean**	2.46436021

Basic Statistical Measures			
Location		**Variability**	
Mean	25.24706	**Std Deviation**	50.74428
Median	13.65000	**Variance**	2575
Mode	3.46000	**Range**	820.80700
		Interquartile Range	18.80500

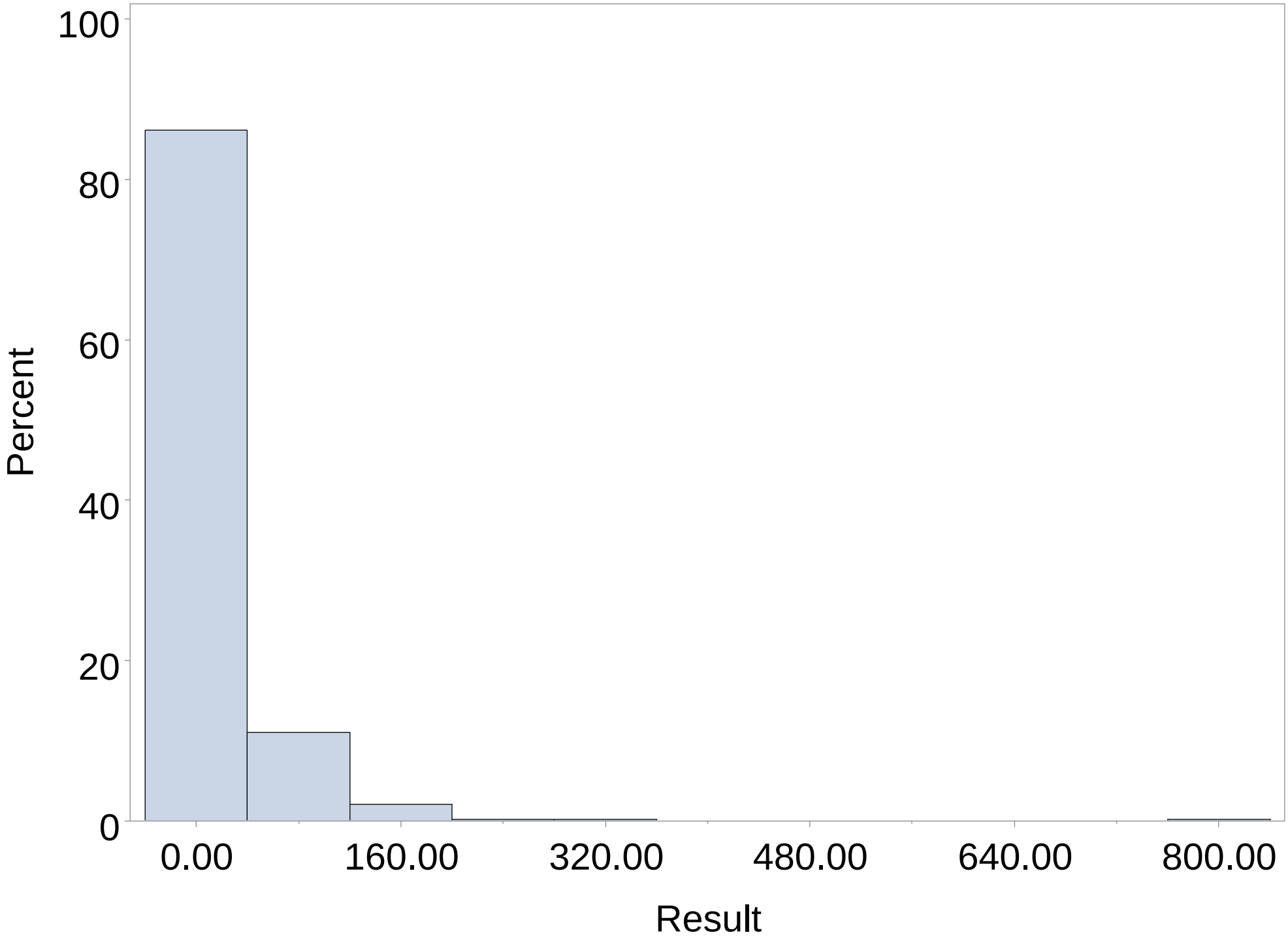
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.24487	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	821.000
99%	195.000
95%	68.000
90%	47.100
75% Q3	26.700
50% Median	13.650
25% Q1	7.895
10%	5.020
5%	4.000
1%	2.600
0% Min	0.193

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.193	2161	195.00	2173
1.600	1993	198.18	2163
1.800	2082	274.00	2227
1.800	2042	340.40	2003
2.600	2069	821.00	2194


Parameter=Chlorophyll a (ug/L) Sample Location=12 psu
100
80
60
40
20
0
Percent
0.00
160.00
320.00
480.00
640.00
800.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=20 psu

Moments			
N	424	**Sum Weights**	424
Mean	16.1308137	**Sum Observations**	6839.465
Std Deviation	25.9011571	**Variance**	670.869938
Skewness	7.1745571	**Kurtosis**	64.2723061
Uncorrected SS	394104.119	**Corrected SS**	283777.984
Coeff Variation	160.569439	**Std Error Mean**	1.25787138

Basic Statistical Measures			
Location		**Variability**	
Mean	16.13081	**Std Deviation**	25.90116
Median	10.70000	**Variance**	670.86994
Mode	3.46000	**Range**	306.80500
		Interquartile Range	9.47500

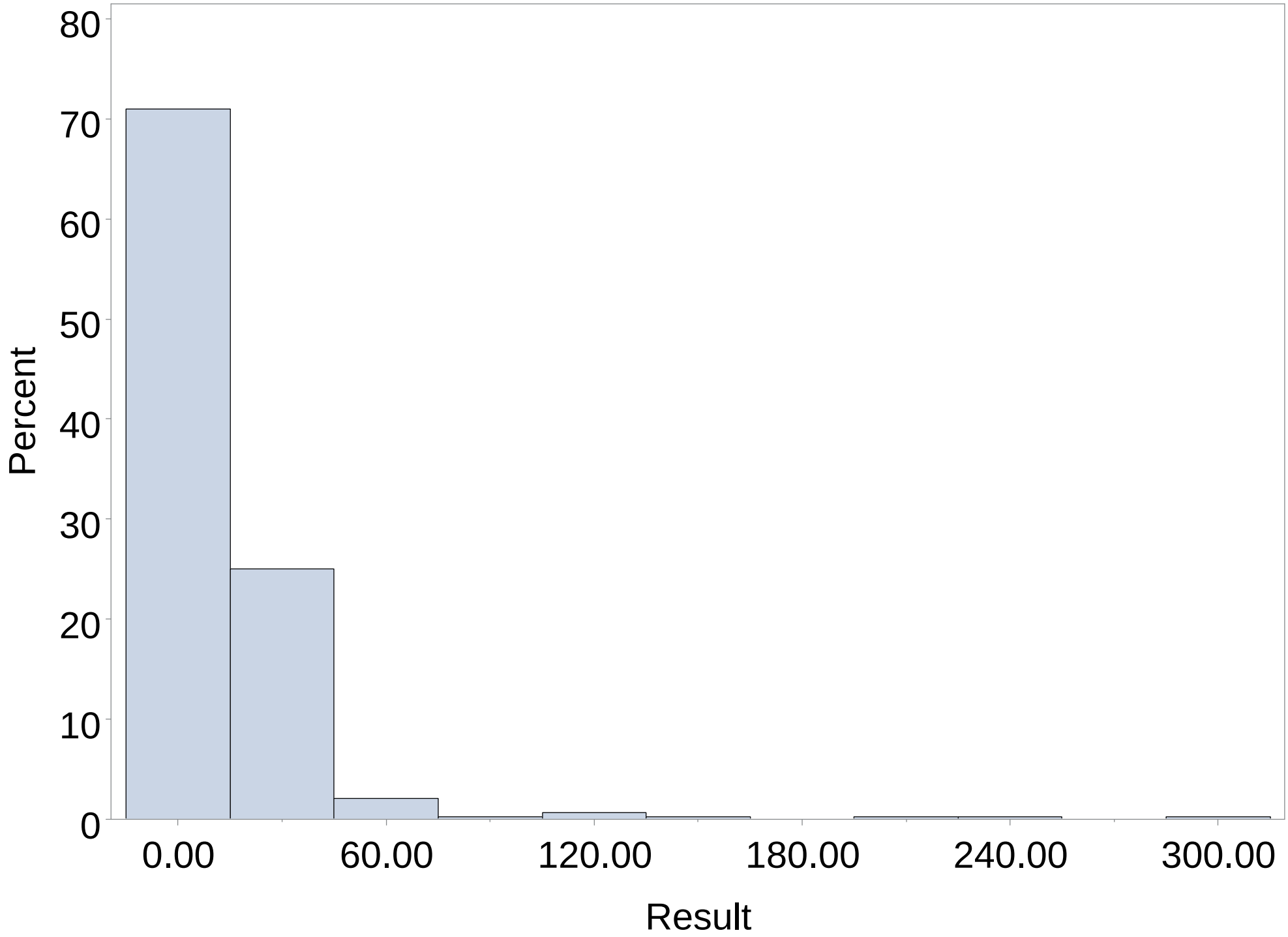
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.8239	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	307.000
99%	127.000
95%	40.400
90%	27.300
75% Q3	15.950
50% Median	10.700
25% Q1	6.475
10%	4.140
5%	3.460
1%	2.300
0% Min	0.195

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.195	2585	127.0	2746
1.300	2466	137.0	2583
1.800	2470	223.0	2666
2.100	2531	250.6	2428
2.300	2492	307.0	2665


Parameter=Chlorophyll a (ug/L) Sample Location=20 psu
Percent
80
70
60
50
40
30
20
10
0
0.00
60.00
120.00
180.00
240.00
300.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	11.5631454	**Sum Observations**	2624.834
Std Deviation	12.7603341	**Variance**	162.826126
Skewness	3.14599215	**Kurtosis**	12.2719005
Uncorrected SS	67150.0417	**Corrected SS**	36798.7046
Coeff Variation	110.353487	**Std Error Mean**	0.84693312

Basic Statistical Measures			
Location		**Variability**	
Mean	11.56315	**Std Deviation**	12.76033
Median	7.32000	**Variance**	162.82613
Mode	3.46000	**Range**	86.47600
		Interquartile Range	9.09000

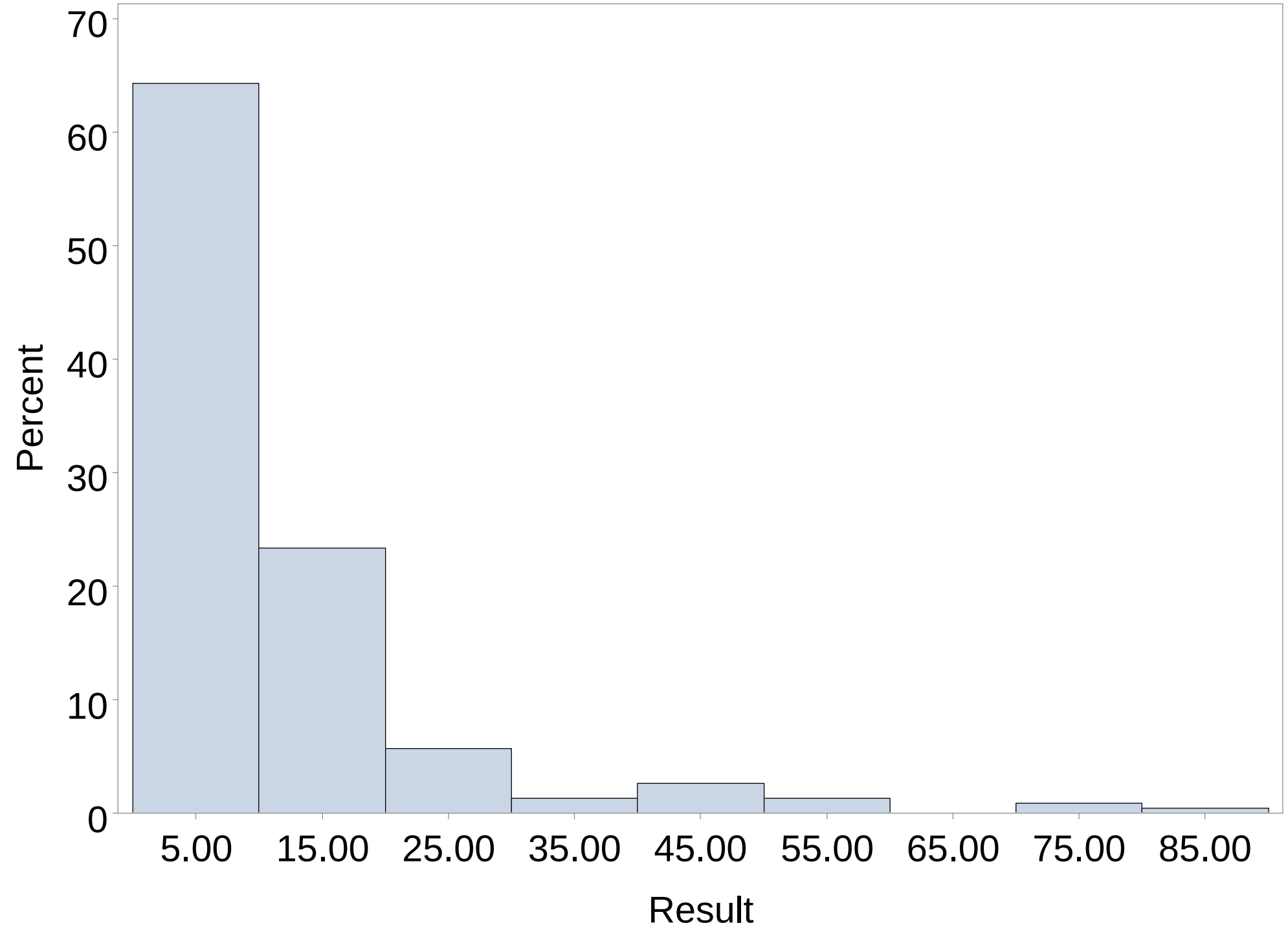
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.65296	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	86.600
99%	77.900
95%	40.400
90%	25.500
75% Q3	13.400
50% Median	7.320
25% Q1	4.310
10%	3.460
5%	3.460
1%	1.770
0% Min	0.124

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.124	2813	53.5	2993
1.360	2799	55.0	2884
1.770	2798	77.9	2841
1.800	2797	79.6	2851
1.800	2796	86.6	2995


Parameter=Chlorophyll a (ug/L) Sample Location=Station 18
70
60
50
40
30
20
10
0
Percent
5.00
15.00
25.00
35.00
45.00
55.00
65.00
75.00
85.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=0 psu

Moments			
N	202	**Sum Weights**	202
Mean	4.96936139	**Sum Observations**	1003.811
Std Deviation	11.0003217	**Variance**	121.007077
Skewness	13.5443731	**Kurtosis**	188.954417
Uncorrected SS	29310.7221	**Corrected SS**	24322.4225
Coeff Variation	221.362884	**Std Error Mean**	0.77397993

Basic Statistical Measures			
Location		**Variability**	
Mean	4.969361	**Std Deviation**	11.00032
Median	3.460000	**Variance**	121.00708
Mode	3.460000	**Range**	157.90000
		Interquartile Range	0.48000

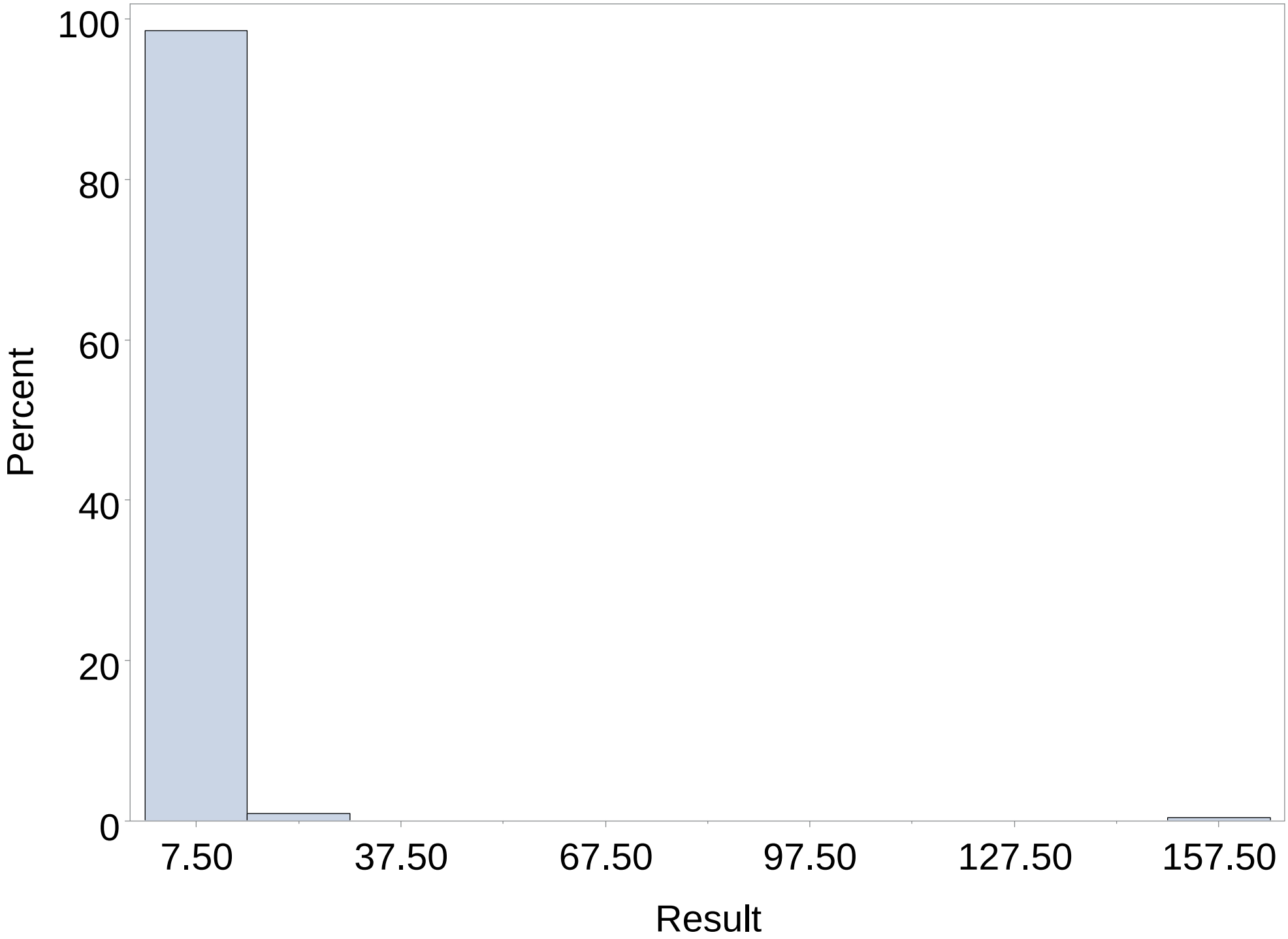
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	6.42053	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	158.00
99%	15.40
95%	8.02
90%	6.40
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	3015	12.4	3038
3.46	3205	14.7	3042
3.46	3204	15.4	3065
3.46	3203	17.4	3156
3.46	3202	158.0	3165


Parameter=Chlorophyll b (mg/m3) Sample Location=0 psu
100
80
60
40
20
0
Percent
7.50
37.50
67.50
97.50
127.50
157.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=6 psu

Moments			
N	202	**Sum Weights**	202
Mean	4.06613861	**Sum Observations**	821.36
Std Deviation	2.65395789	**Variance**	7.04349248
Skewness	8.66614724	**Kurtosis**	91.9793017
Uncorrected SS	4755.5056	**Corrected SS**	1415.74199
Coeff Variation	65.2697348	**Std Error Mean**	0.18673183

Basic Statistical Measures			
Location		**Variability**	
Mean	4.066139	**Std Deviation**	2.65396
Median	3.460000	**Variance**	7.04349
Mode	3.460000	**Range**	34.60000
		Interquartile Range	0.48000

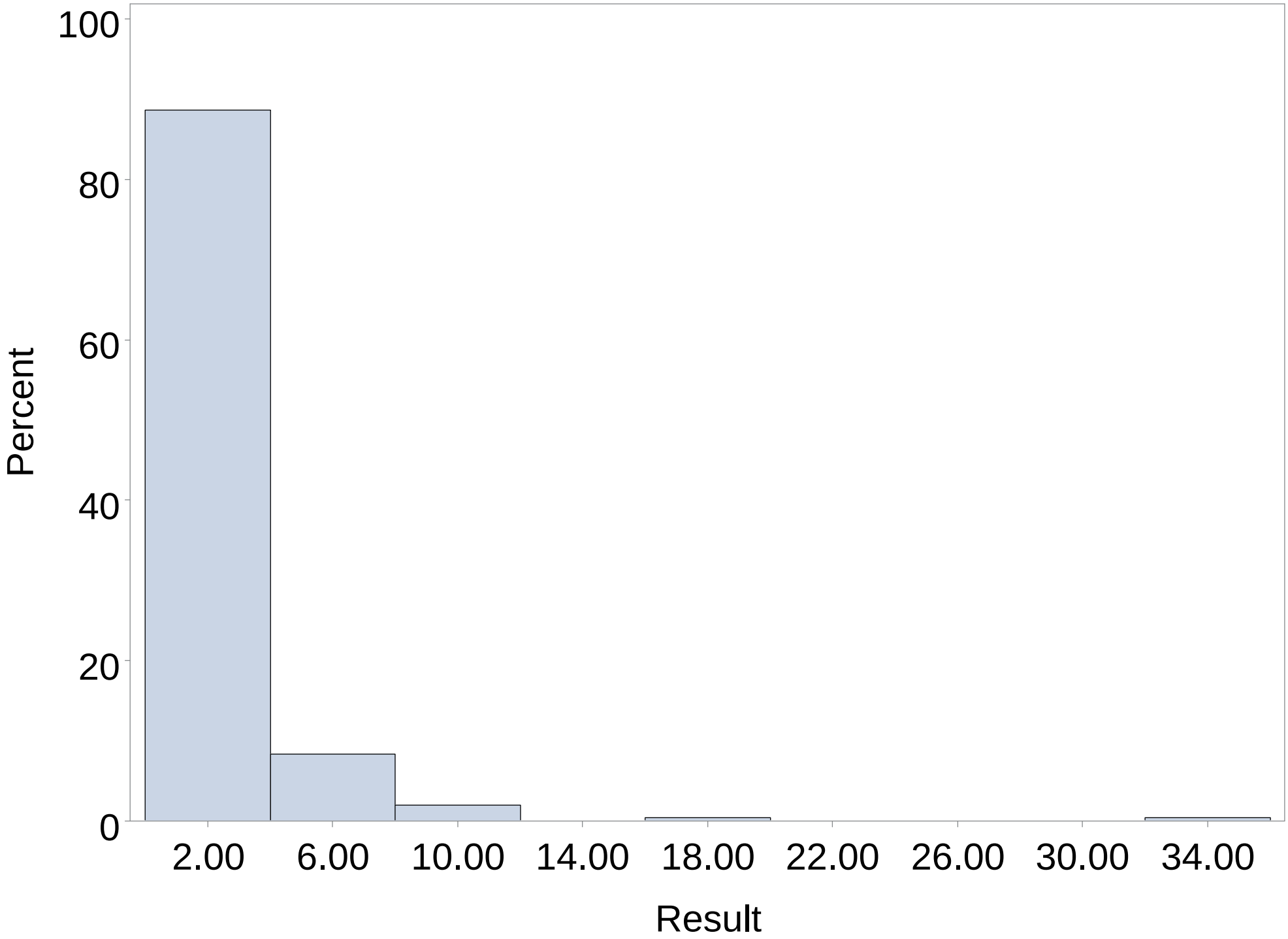
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.77528	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.70
99%	11.00
95%	6.55
90%	4.50
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	3217	10.4	3358
3.46	3407	10.7	3240
3.46	3406	11.0	3267
3.46	3405	17.4	3268
3.46	3404	34.7	3354


Parameter=Chlorophyll b (mg/m3) Sample Location=6 psu
100
80
60
40
20
0
Percent
2.00
6.00
10.00
14.00
18.00
22.00
26.00
30.00
34.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=12 psu

Moments			
N	203	**Sum Weights**	203
Mean	4.20325123	**Sum Observations**	853.26
Std Deviation	2.67798788	**Variance**	7.17161908
Skewness	5.40839765	**Kurtosis**	33.8336315
Uncorrected SS	5035.1332	**Corrected SS**	1448.66705
Coeff Variation	63.7122963	**Std Error Mean**	0.1879579

Basic Statistical Measures			
Location		**Variability**	
Mean	4.203251	**Std Deviation**	2.67799
Median	3.460000	**Variance**	7.17162
Mode	3.460000	**Range**	24.30000
		Interquartile Range	0.48000

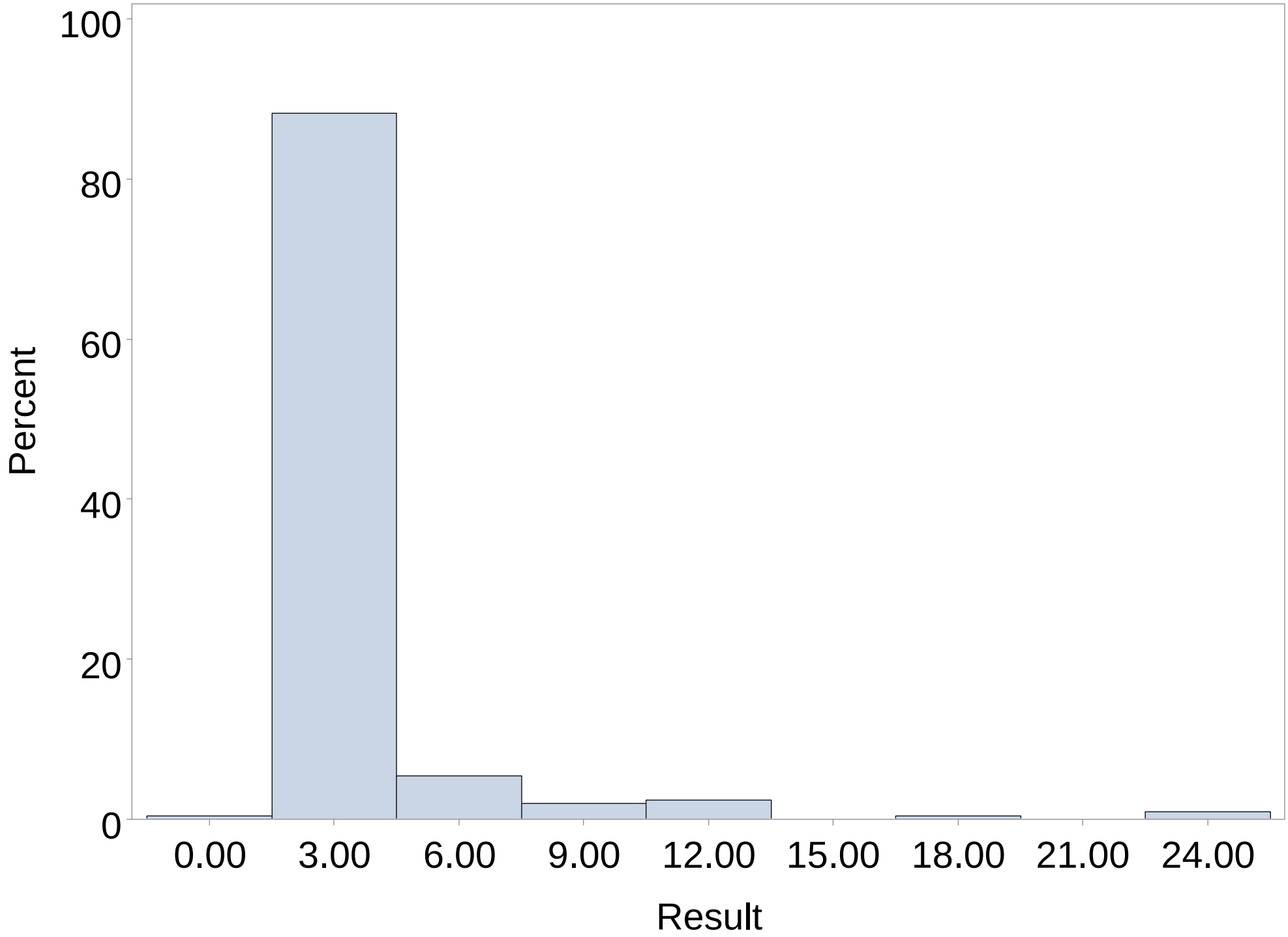
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.36273	**Pr > |t|**	<.0001
Sign	**M**	101.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10353	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.40
99%	18.30
95%	7.81
90%	4.93
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	3419	12.1	3545
3.46	3610	12.3	3442
3.46	3609	18.3	3522
3.46	3608	23.9	3557
3.46	3607	24.4	3446


Parameter=Chlorophyll b (mg/m3) Sample Location=12 psu
100
80
60
40
20
0
Percent
0.00
3.00
6.00
9.00
12.00
15.00
18.00
21.00
24.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=20 psu

Moments			
N	203	**Sum Weights**	203
Mean	4.05448276	**Sum Observations**	823.06
Std Deviation	2.20509404	**Variance**	4.86243971
Skewness	6.20709596	**Kurtosis**	49.321354
Uncorrected SS	4319.2954	**Corrected SS**	982.212821
Coeff Variation	54.3865683	**Std Error Mean**	0.15476726

Basic Statistical Measures			
Location		**Variability**	
Mean	4.054483	**Std Deviation**	2.20509
Median	3.460000	**Variance**	4.86244
Mode	3.460000	**Range**	25.30000
		Interquartile Range	0.48000

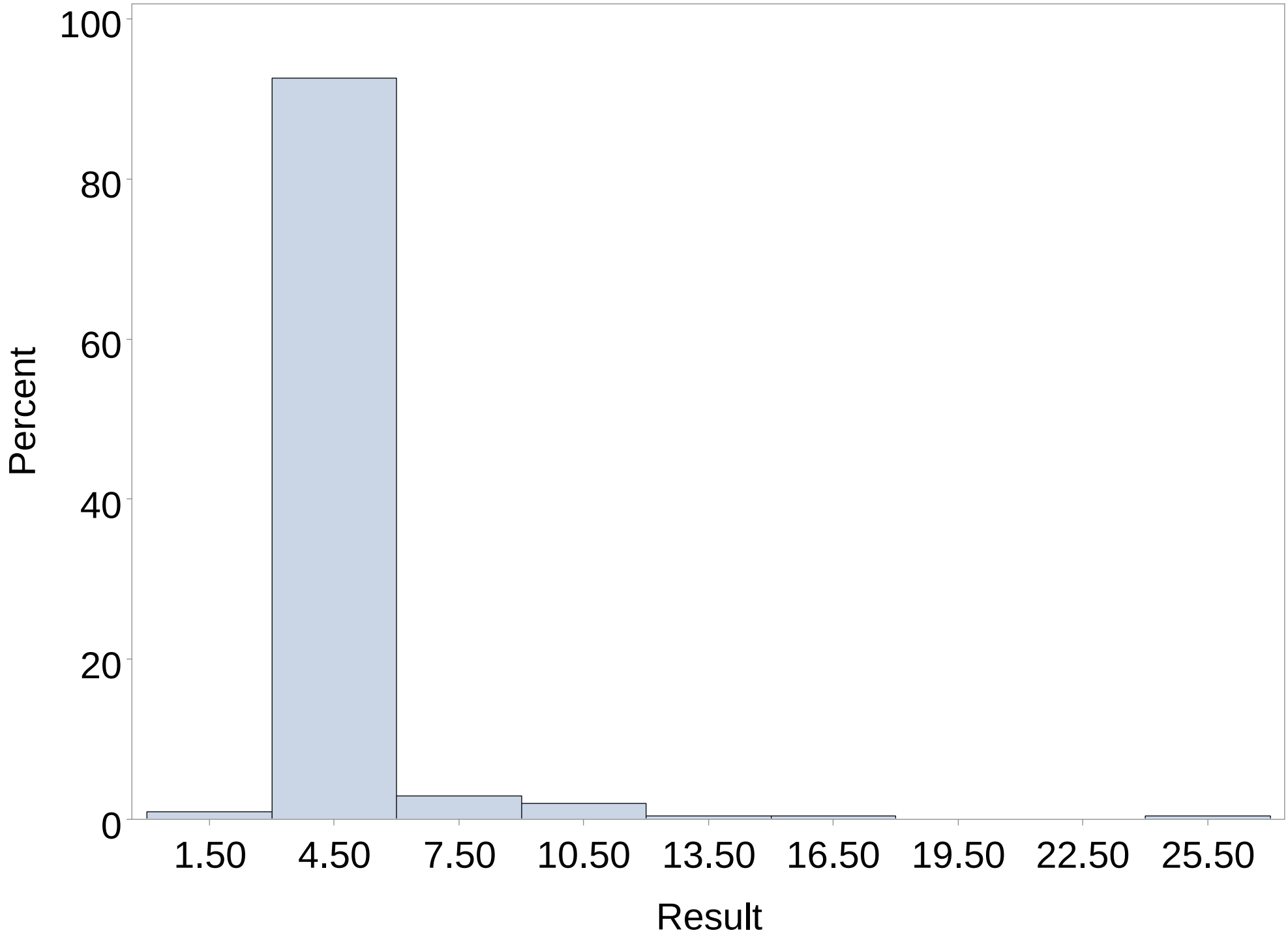
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.19729	**Pr > |t|**	<.0001
Sign	**M**	101.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10353	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25.40
99%	12.80
95%	6.82
90%	4.55
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	3622	11.1	3673
1.40	3713	11.6	3631
3.46	3813	12.8	3648
3.46	3812	16.1	3645
3.46	3811	25.4	3667


Parameter=Chlorophyll b (mg/m3) Sample Location=20 psu
100
80
60
40
20
0
Percent
1.50
4.50
7.50
10.50
13.50
16.50
19.50
22.50
25.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=Station 18

Moments			
N	202	**Sum Weights**	202
Mean	4.36772277	**Sum Observations**	882.28
Std Deviation	2.55869171	**Variance**	6.54690325
Skewness	3.55504023	**Kurtosis**	13.9427125
Uncorrected SS	5169.482	**Corrected SS**	1315.92755
Coeff Variation	58.5818249	**Std Error Mean**	0.18002892

Basic Statistical Measures			
Location		**Variability**	
Mean	4.367723	**Std Deviation**	2.55869
Median	3.460000	**Variance**	6.54690
Mode	3.460000	**Range**	20.20000
		Interquartile Range	0.48000

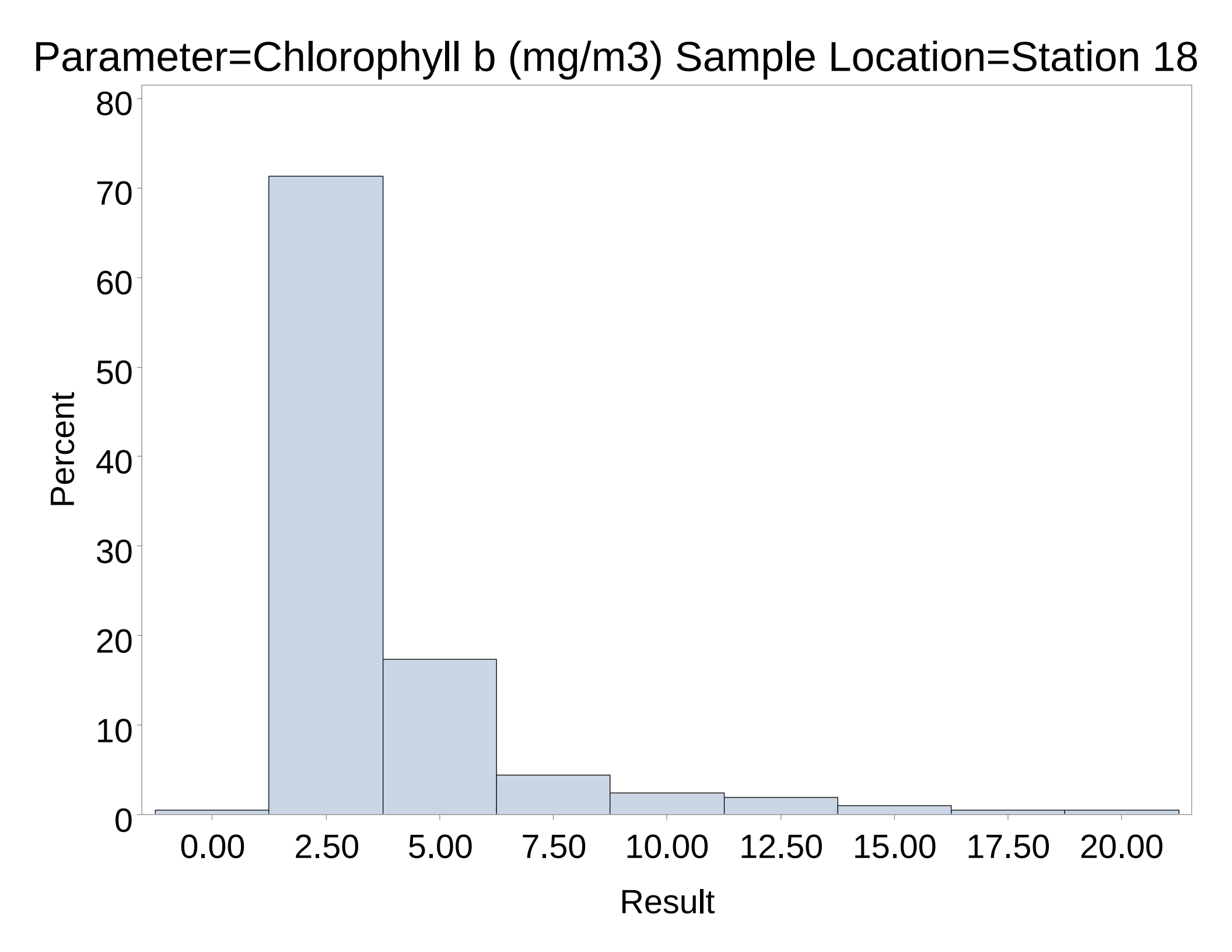
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.26123	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	20.30
99%	15.70
95%	9.73
90%	6.81
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	3825	13.7	3968
3.46	4015	14.4	4005
3.46	4014	15.7	3967
3.46	4013	16.8	3829
3.46	4012	20.3	3852


Parameter=Chlorophyll b (mg/m3) Sample Location=Station 18
Percent
80
70
60
50
40
30
20
10
0
0.00
2.50
5.00
7.50
10.00
12.50
15.00
17.50
20.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=0 psu

Moments			
N	201	**Sum Weights**	201
Mean	6.07220398	**Sum Observations**	1220.513
Std Deviation	11.766492	**Variance**	138.450334
Skewness	11.3173568	**Kurtosis**	144.532591
Uncorrected SS	35101.2706	**Corrected SS**	27690.0667
Coeff Variation	193.776296	**Std Error Mean**	0.82994435

Basic Statistical Measures			
Location		**Variability**	
Mean	6.072204	**Std Deviation**	11.76649
Median	3.460000	**Variance**	138.45033
Mode	3.460000	**Range**	158.90000
		Interquartile Range	2.01000

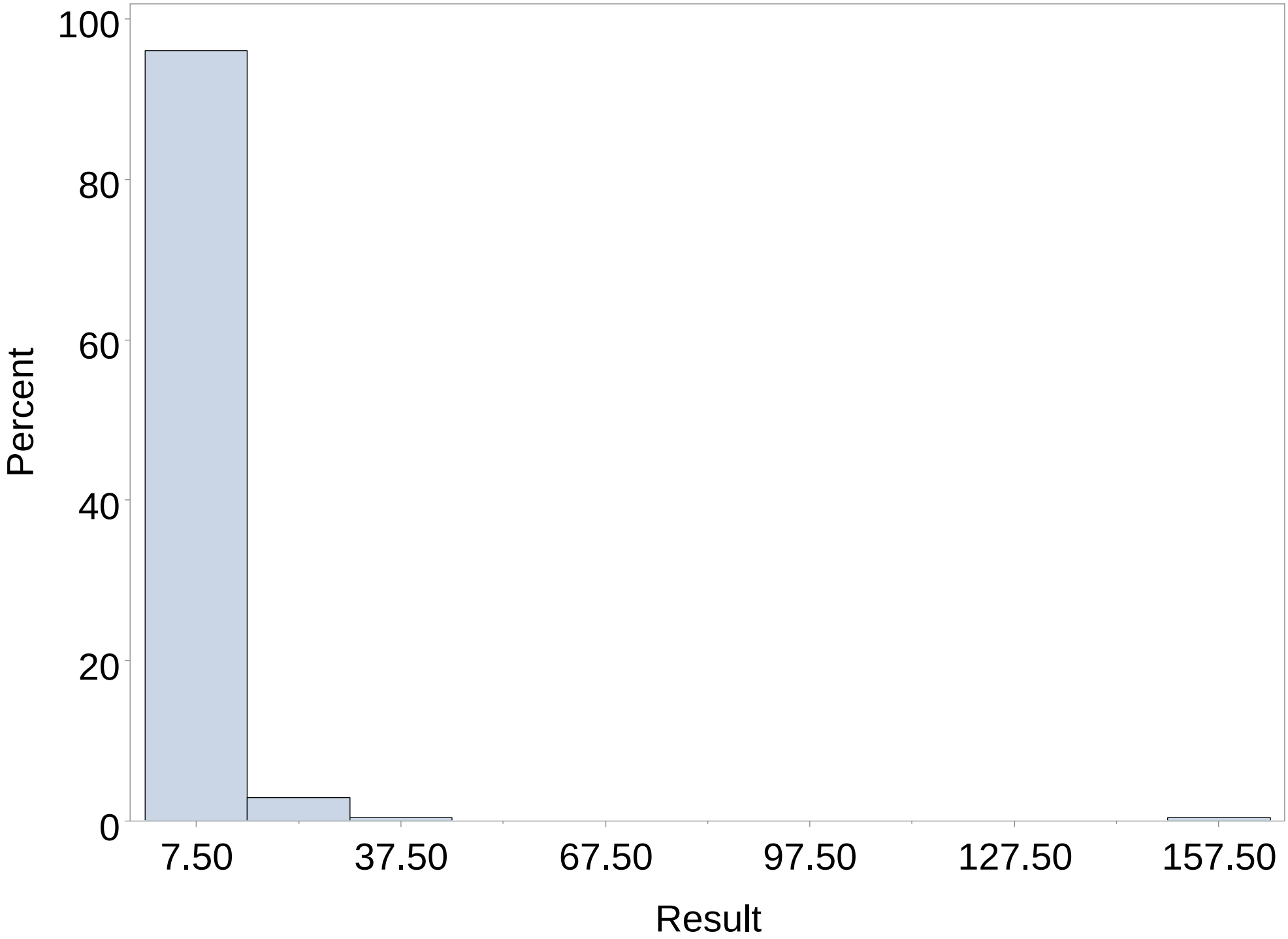
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.316399	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	159.00
99%	28.50
95%	13.40
90%	8.82
75% Q3	5.47
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	4027	21.7	4201
3.46	4216	26.2	4167
3.46	4215	28.5	4202
3.46	4214	40.9	4205
3.46	4213	159.0	4176


Parameter=Chlorophyll c (mg/m3) Sample Location=0 psu
100
80
60
40
20
0
Percent
7.50
37.50
67.50
97.50
127.50
157.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=6 psu

Moments			
N	202	**Sum Weights**	202
Mean	8.02678218	**Sum Observations**	1621.41
Std Deviation	25.0628748	**Variance**	628.147694
Skewness	12.8083489	**Kurtosis**	174.676967
Uncorrected SS	139272.391	**Corrected SS**	126257.686
Coeff Variation	312.240625	**Std Error Mean**	1.76341772

Basic Statistical Measures			
Location		**Variability**	
Mean	8.026782	**Std Deviation**	25.06287
Median	3.640000	**Variance**	628.14769
Mode	3.460000	**Range**	349.90000
		Interquartile Range	1.99000

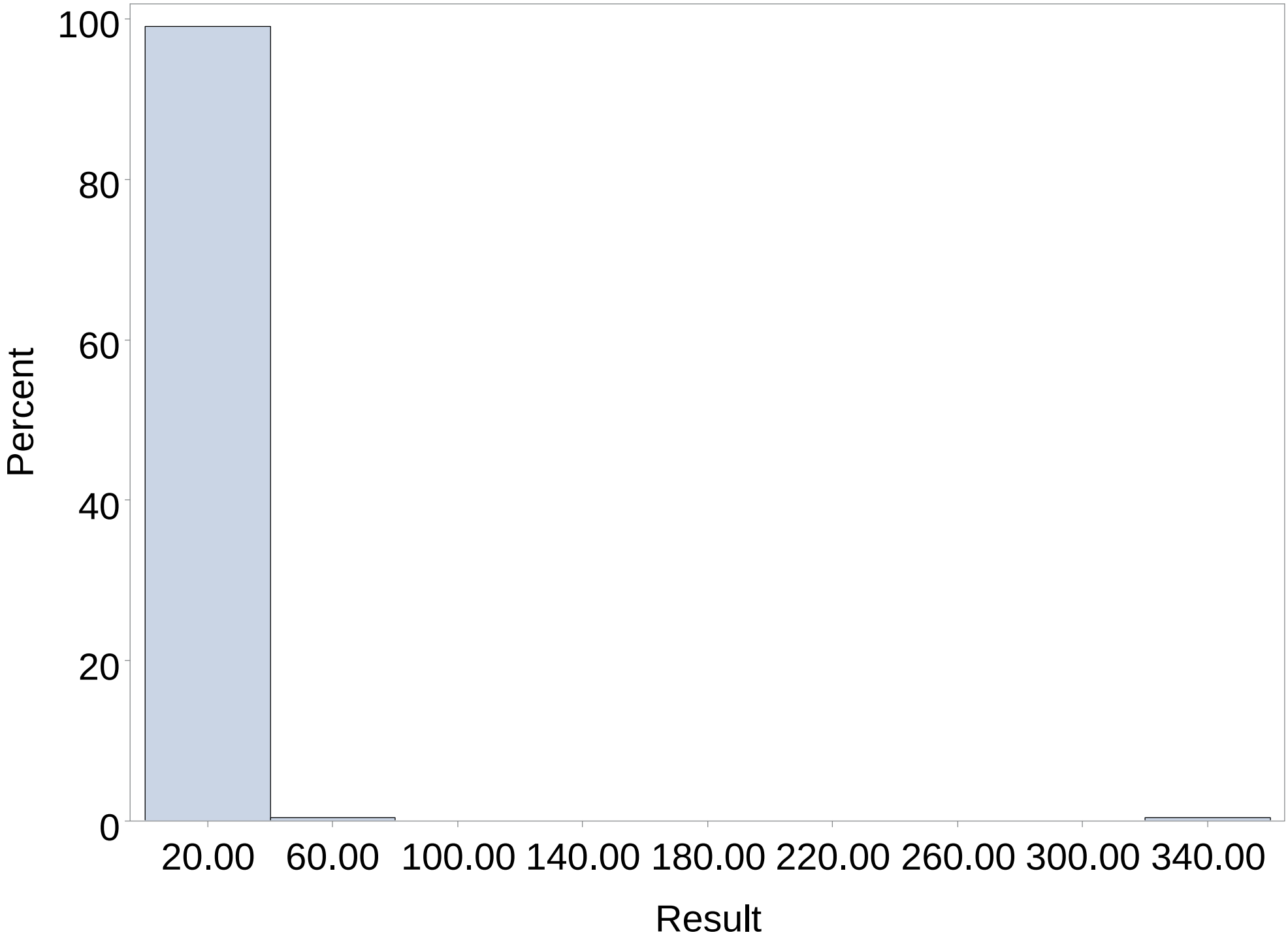
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	4.551833	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	350.00
99%	37.50
95%	22.70
90%	13.90
75% Q3	5.45
50% Median	3.64
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	4228	31.1	4274
3.46	4418	35.0	4346
3.46	4417	37.5	4373
3.46	4416	43.9	4365
3.46	4415	350.0	4319


Parameter=Chlorophyll c (mg/m3) Sample Location=6 psu
100
80
60
40
20
0
Percent
20.00
60.00
100.00
140.00
180.00
220.00
260.00
300.00
340.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=12 psu

Moments			
N	203	**Sum Weights**	203
Mean	8.66118227	**Sum Observations**	1758.22
Std Deviation	16.685599	**Variance**	278.409215
Skewness	7.18718771	**Kurtosis**	67.2125149
Uncorrected SS	71466.9254	**Corrected SS**	56238.6615
Coeff Variation	192.648053	**Std Error Mean**	1.17109947

Basic Statistical Measures			
Location		**Variability**	
Mean	8.661182	**Std Deviation**	16.68560
Median	3.940000	**Variance**	278.40922
Mode	3.460000	**Range**	186.90000
		Interquartile Range	2.99000

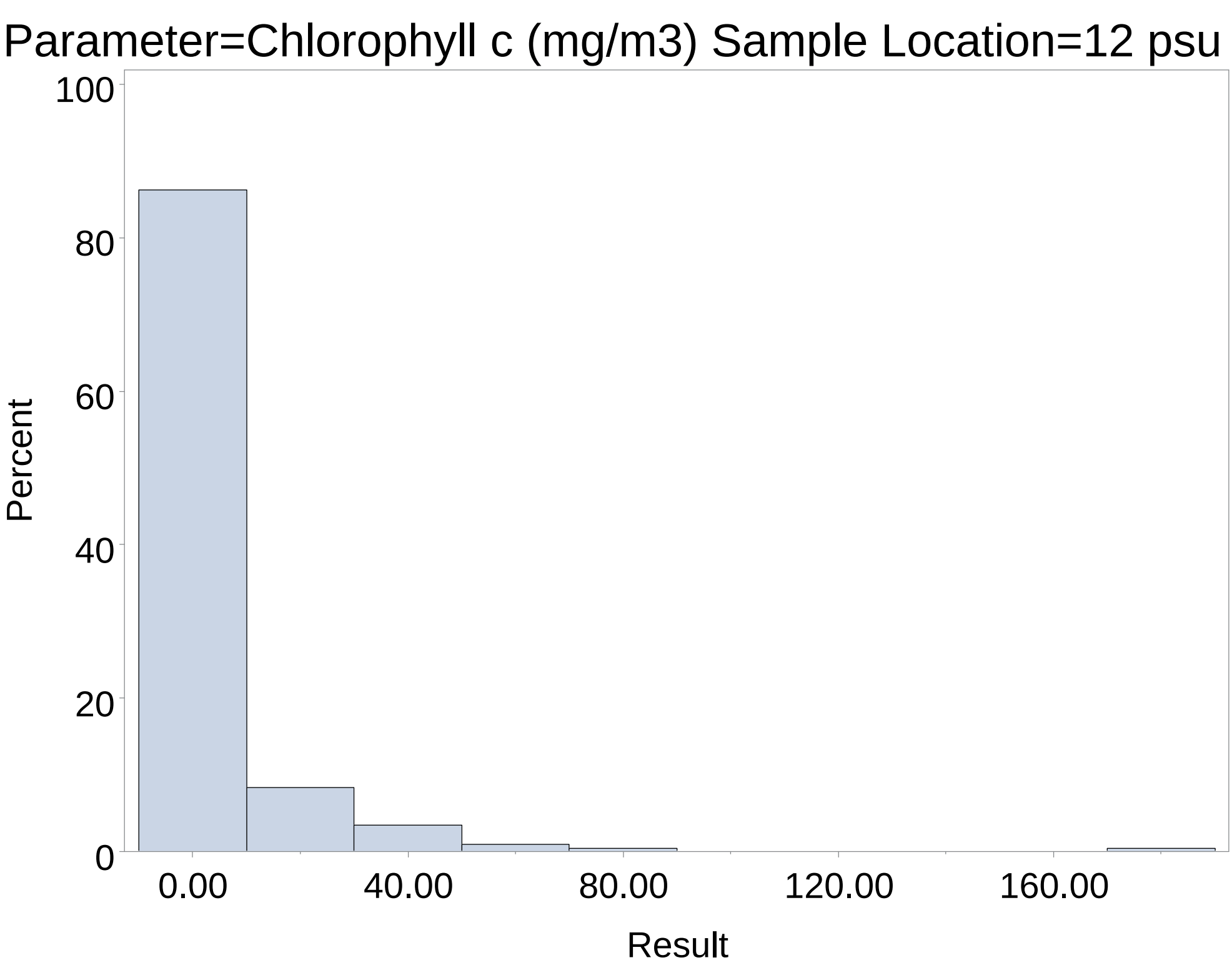
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.39577	**Pr > |t|**	<.0001
Sign	**M**	101.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10353	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	187.00
99%	67.59
95%	37.20
90%	14.10
75% Q3	6.45
50% Median	3.94
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	4430	49.70	4557
3.46	4621	63.20	4442
3.46	4620	67.59	4432
3.46	4619	79.30	4496
3.46	4617	187.00	4463


Parameter=Chlorophyll c (mg/m3) Sample Location=12 psu
100
80
60
40
20
0
Percent
0.00
40.00
80.00
120.00
160.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=20 psu

Moments			
N	203	**Sum Weights**	203
Mean	6.47906404	**Sum Observations**	1315.25
Std Deviation	8.75703534	**Variance**	76.6856679
Skewness	5.74282981	**Kurtosis**	41.7543927
Uncorrected SS	24012.0939	**Corrected SS**	15490.5049
Coeff Variation	135.158956	**Std Error Mean**	0.61462339

Basic Statistical Measures			
Location		**Variability**	
Mean	6.479064	**Std Deviation**	8.75704
Median	3.520000	**Variance**	76.68567
Mode	3.460000	**Range**	87.00000
		Interquartile Range	2.05000

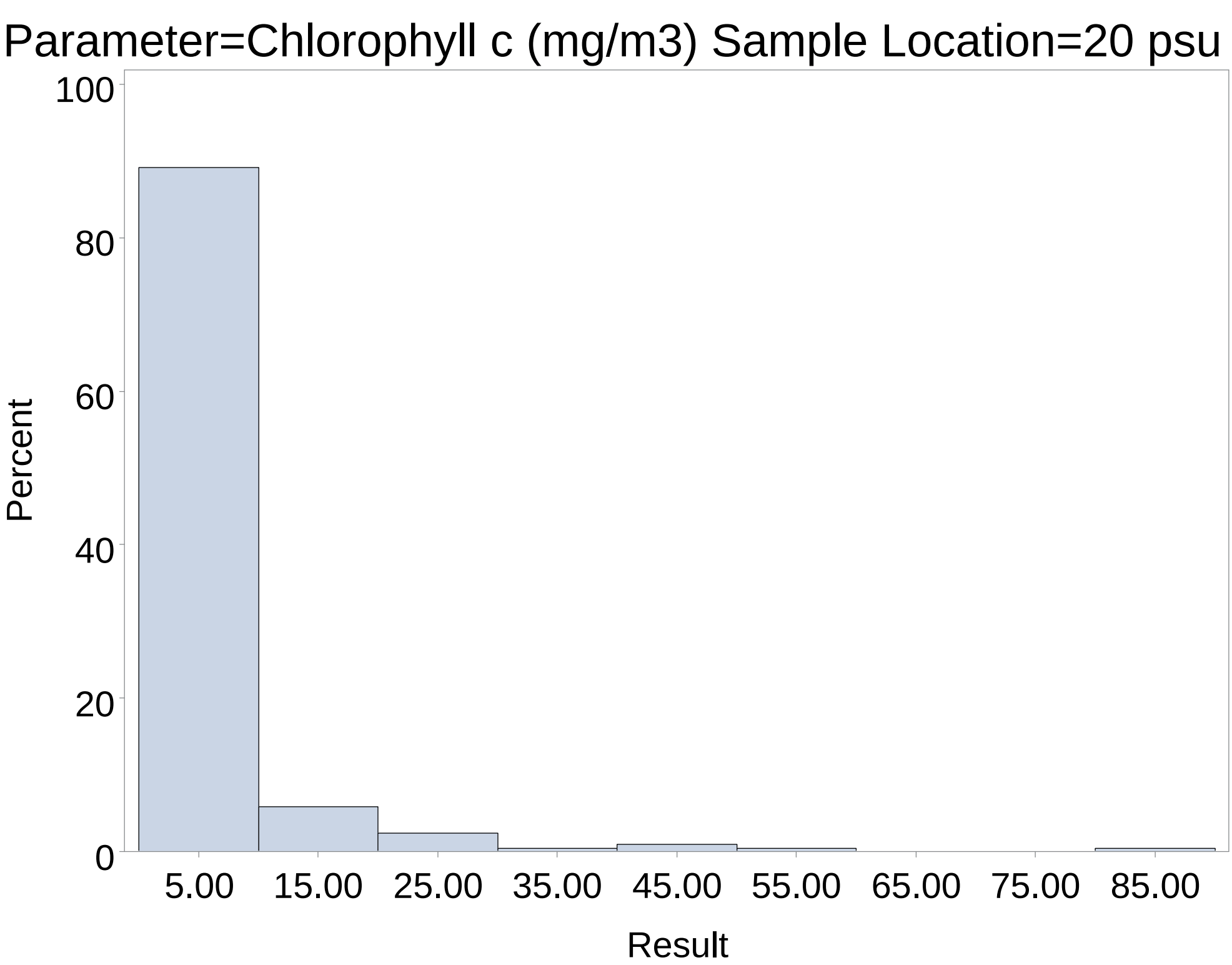
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.54152	**Pr > |t|**	<.0001
Sign	**M**	101.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10353	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	87.10
99%	44.60
95%	17.90
90%	11.10
75% Q3	5.51
50% Median	3.52
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	4633	32.7	4749
3.46	4824	41.1	4631
3.46	4823	44.6	4794
3.46	4822	53.3	4714
3.46	4820	87.1	4713


Parameter=Chlorophyll c (mg/m3) Sample Location=20 psu
100
80
60
40
20
0
Percent
5.00
15.00
25.00
35.00
45.00
55.00
65.00
75.00
85.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=Station 18

Moments			
N	202	**Sum Weights**	202
Mean	5.50123762	**Sum Observations**	1111.25
Std Deviation	4.61261432	**Variance**	21.2762109
Skewness	3.43938627	**Kurtosis**	14.6636956
Uncorrected SS	10389.7687	**Corrected SS**	4276.51839
Coeff Variation	83.8468475	**Std Error Mean**	0.32454241

Basic Statistical Measures			
Location		**Variability**	
Mean	5.501238	**Std Deviation**	4.61261
Median	3.460000	**Variance**	21.27621
Mode	3.460000	**Range**	37.10000
		Interquartile Range	1.63000

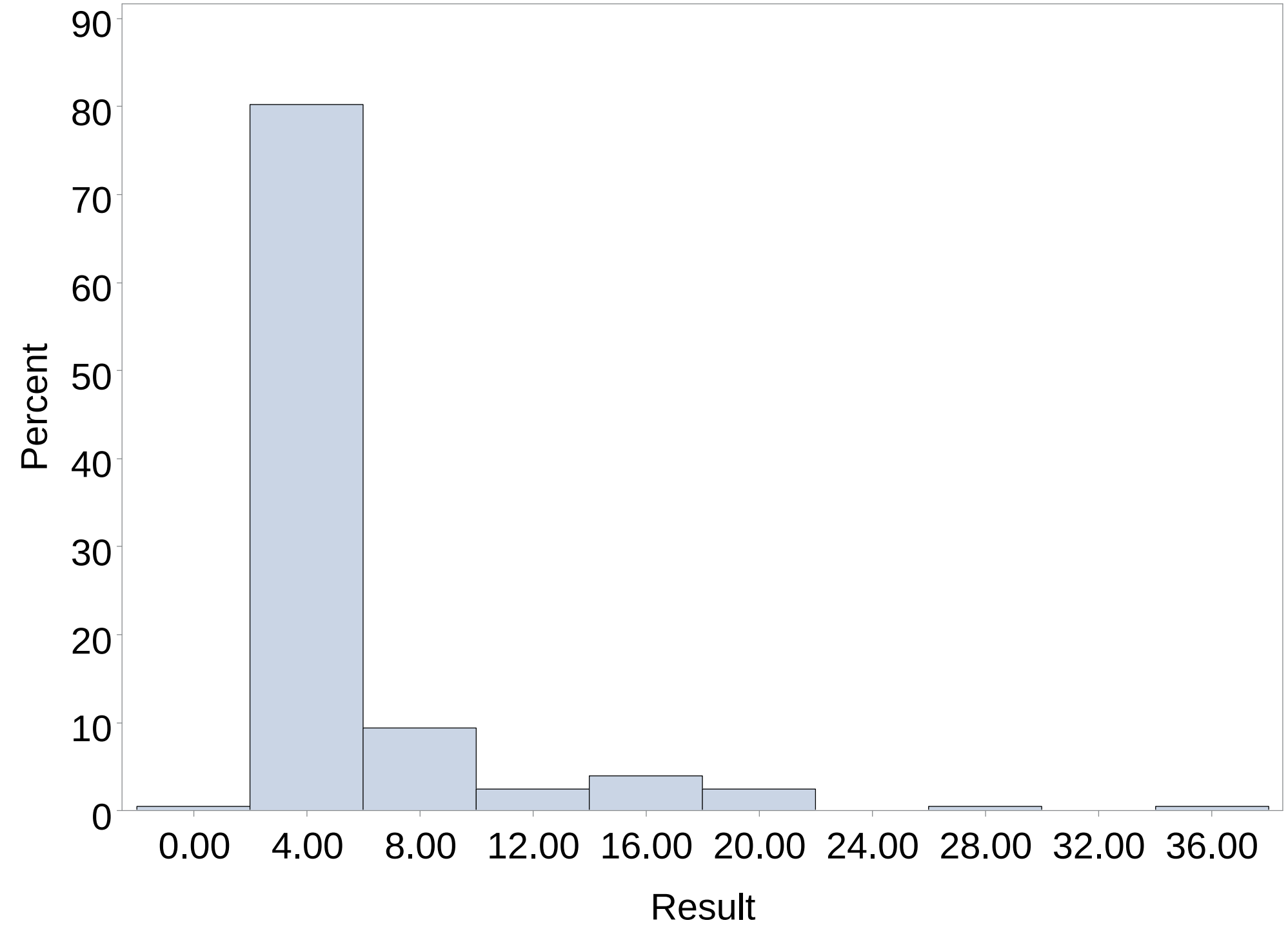
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.95075	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37.20
99%	21.90
95%	15.50
90%	9.96
75% Q3	5.09
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	4836	20.6	4884
3.46	5026	20.7	5017
3.46	5025	21.9	5012
3.46	5024	26.5	4840
3.46	5023	37.2	5015


Parameter=Chlorophyll c (mg/m3) Sample Location=Station 18
Percent
90
80
70
60
50
40
30
20
10
0
0.00
4.00
8.00
12.00
16.00
20.00
24.00
28.00
32.00
36.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	89.4933297	**Sum Observations**	38124.1585
Std Deviation	146.791964	**Variance**	21547.8808
Skewness	7.3847318	**Kurtosis**	78.3554604
Uncorrected SS	12569707.2	**Corrected SS**	9157849.33
Coeff Variation	164.025592	**Std Error Mean**	7.11209391

Basic Statistical Measures			
Location		**Variability**	
Mean	89.49333	**Std Deviation**	146.79196
Median	55.37099	**Variance**	21548
Mode	55.37099	**Range**	2030
		Interquartile Range	45.00000

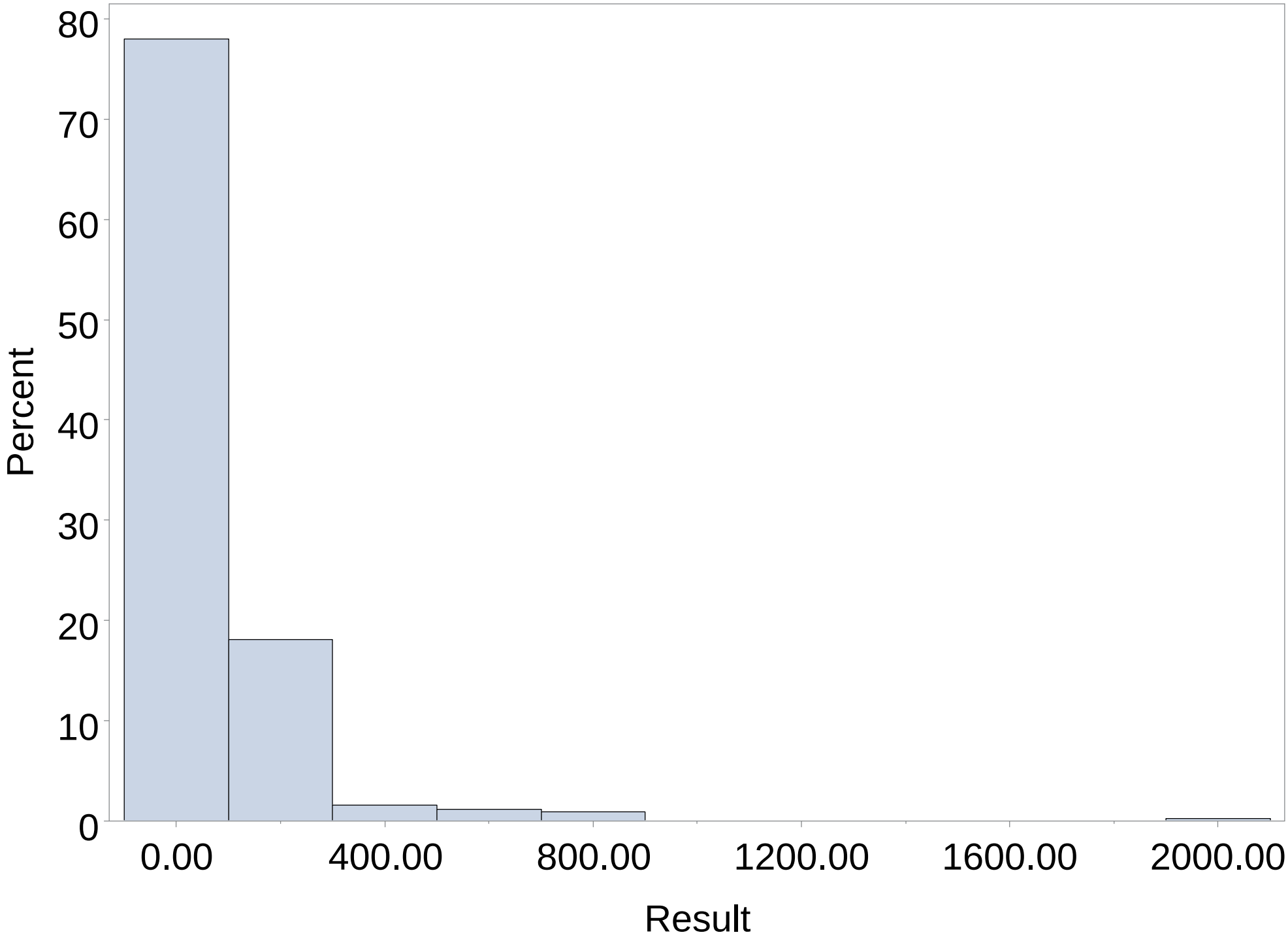
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.58326	**Pr > |t|**	<.0001
Sign	**M**	202	**Pr >= |M|**	<.0001
Signed Rank	**S**	40905	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2030.000
99%	775.194
95%	263.000
90%	165.000
75% Q3	86.000
50% Median	55.371
25% Q1	41.000
10%	28.000
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	5223	775.194	5096
0	5220	775.194	5130
0	5211	830.565	5090
0	5210	885.936	5095
0	5204	2030.000	5230


Parameter=Chloride (mg/L) Sample Location=0 psu
Percent
80
70
60
50
40
30
20
10
0
0.00
400.00
800.00
1200.00
1600.00
2000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=6 psu

Moments			
N	427	**Sum Weights**	427
Mean	3252.38476	**Sum Observations**	1388768.29
Std Deviation	809.052935	**Variance**	654566.652
Skewness	1.50444234	**Kurtosis**	7.94133699
Uncorrected SS	4795654237	**Corrected SS**	278845394
Coeff Variation	24.8756833	**Std Error Mean**	39.1528157

Basic Statistical Measures			
Location		**Variability**	
Mean	3252.385	**Std Deviation**	809.05294
Median	3156.146	**Variance**	654567
Mode	3543.743	**Range**	8344
		Interquartile Range	890.48505

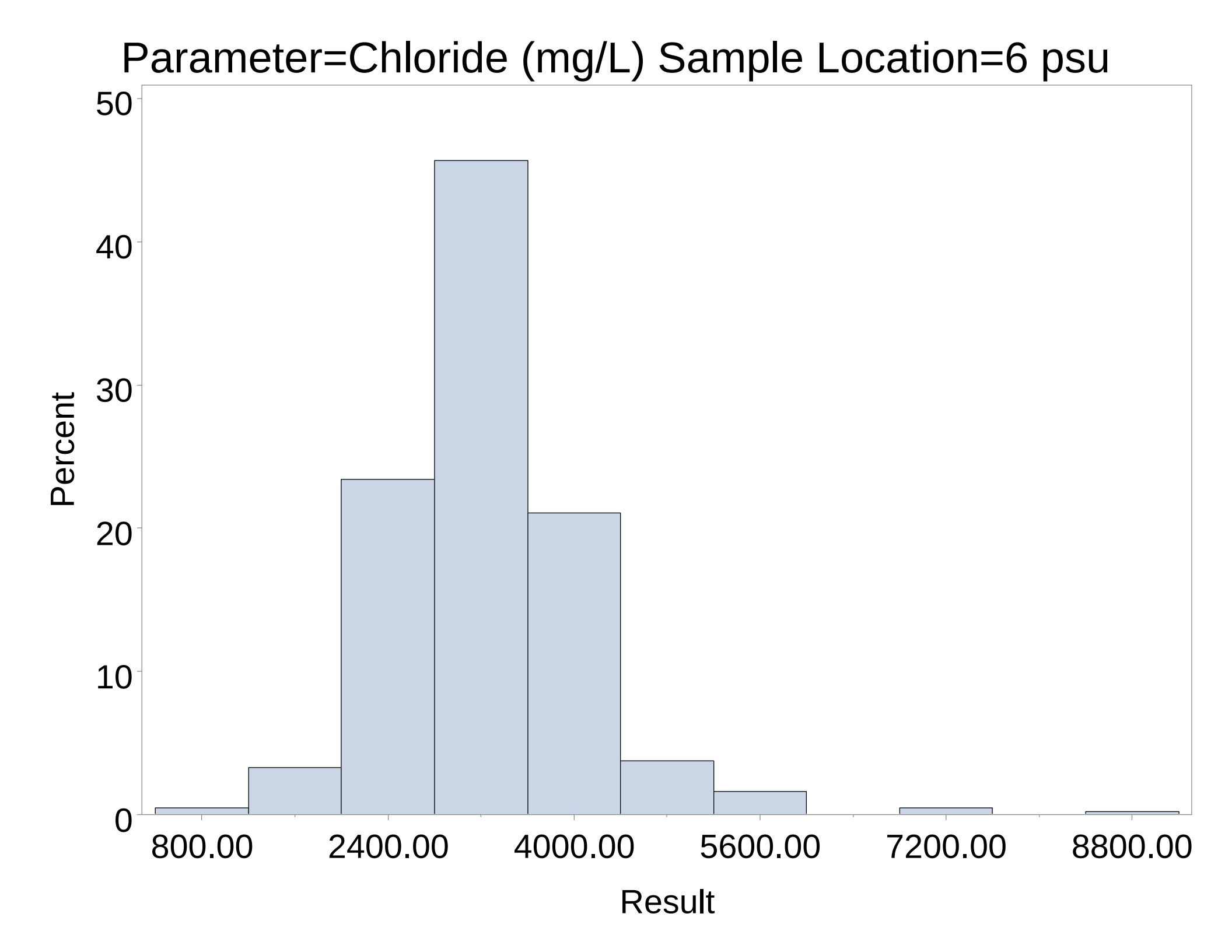
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	83.06899	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9008.000
99%	5758.583
95%	4450.000
90%	4120.000
75% Q3	3654.485
50% Median	3156.146
25% Q1	2764.000
10%	2419.000
5%	2109.000
1%	1550.388
0% Min	664.452

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
664.452	5629	5758.58	5604
1060.000	5847	5869.32	5649
1513.000	5715	6921.37	5601
1538.000	5717	7087.49	5611
1550.388	5496	9008.00	5711


Parameter=Chloride (mg/L) Sample Location=6 psu
Percent
50
40
30
20
10
0
800.00
2400.00
4000.00
5600.00
7200.00
8800.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	6470.67912	**Sum Observations**	2762979.98
Std Deviation	1141.28222	**Variance**	1302525.1
Skewness	0.37862891	**Kurtosis**	3.83363094
Uncorrected SS	1.84332E10	**Corrected SS**	554875693
Coeff Variation	17.6377502	**Std Error Mean**	55.2305176

Basic Statistical Measures			
Location		**Variability**	
Mean	6470.679	**Std Deviation**	1141
Median	6461.000	**Variance**	1302525
Mode	6478.405	**Range**	11446
		Interquartile Range	1246

Note: The mode displayed is the smallest of 3 modes with a count of 9.

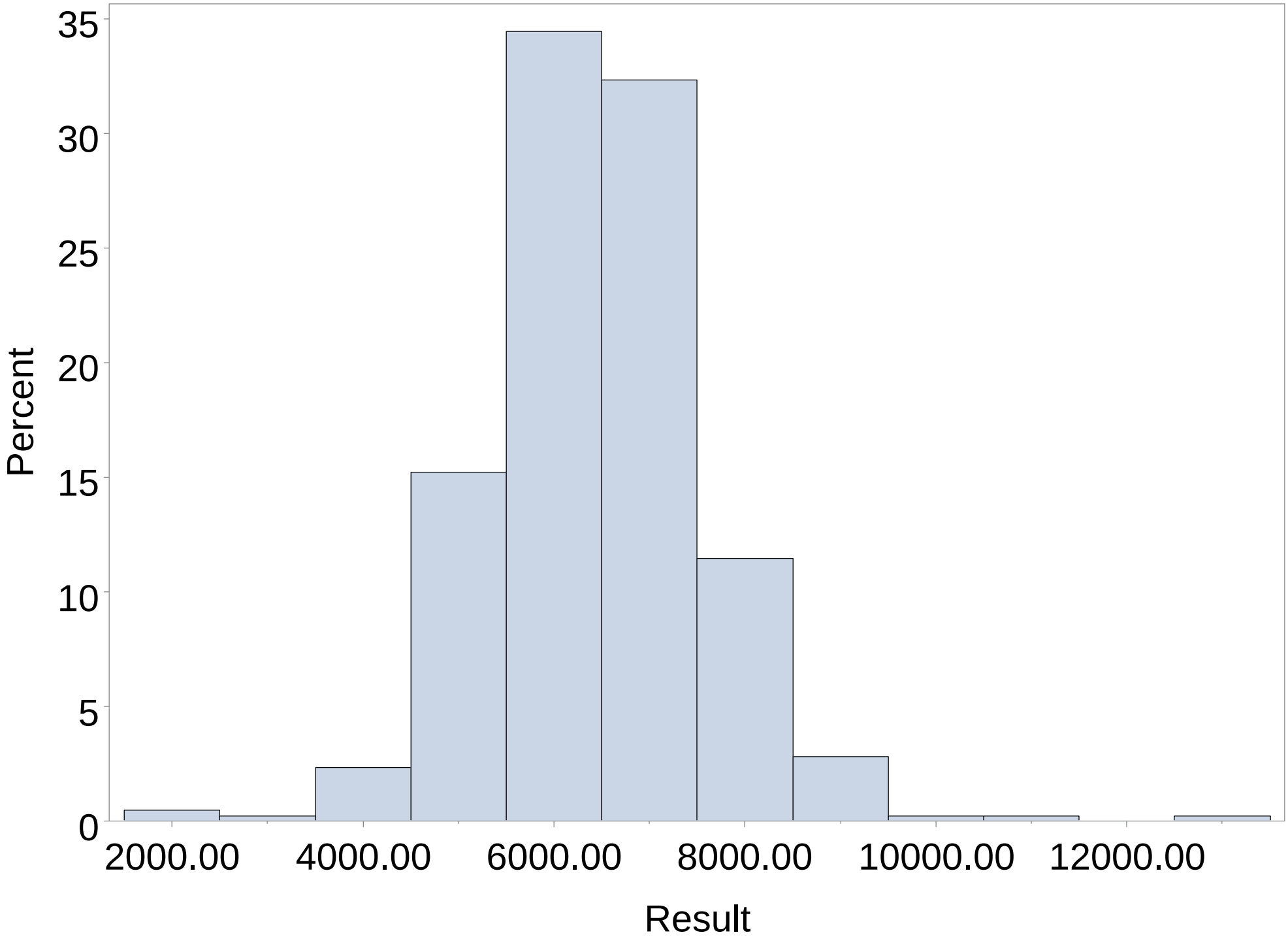
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	117.1577	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12996.00
99%	9320.00
95%	8327.00
90%	7751.94
75% Q3	7087.49
50% Median	6461.00
25% Q1	5841.00
10%	5165.00
5%	4798.00
1%	3986.71
0% Min	1550.39

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1550.39	5982	9320.00	6084
2066.00	6142	9357.70	6068
3100.78	6003	9689.92	5966
3709.00	6156	11295.68	6055
3986.71	6059	12996.00	6126


Parameter=Chloride (mg/L) Sample Location=12 psu
Percent
35
30
25
20
15
10
5
0
2000.00
4000.00
6000.00
8000.00
10000.00
12000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	10678.8707	**Sum Observations**	4559877.79
Std Deviation	1820.10007	**Variance**	3312764.26
Skewness	0.17147335	**Kurtosis**	8.36091217
Uncorrected SS	5.01056E10	**Corrected SS**	1411237574
Coeff Variation	17.0439377	**Std Error Mean**	88.0808158

Basic Statistical Measures			
Location		**Variability**	
Mean	10678.87	**Std Deviation**	1820
Median	10798.00	**Variance**	3312764
Mode	11683.28	**Range**	23691
		Interquartile Range	1989

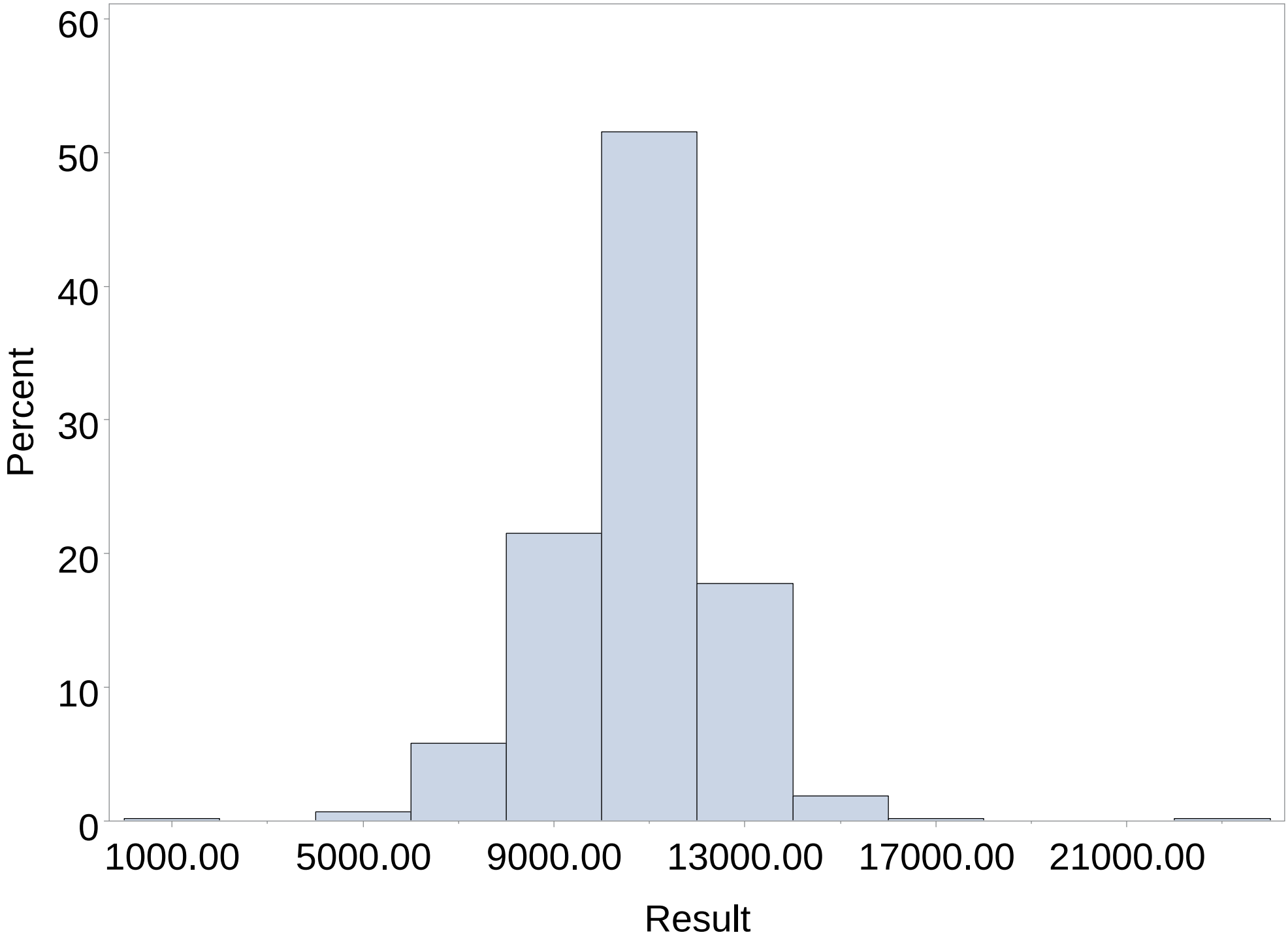
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	121.2395	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	23693.0
99%	14562.6
95%	13000.0
90%	12624.6
75% Q3	11738.6
50% Median	10798.0
25% Q1	9750.0
10%	8481.0
5%	7659.0
1%	6278.0
0% Min	2.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.00	6514	14562.6	6497
5315.61	6474	15000.0	6511
5592.47	6486	15946.8	6458
5774.00	6667	16017.0	6685
6278.00	6609	23693.0	6553


Parameter=Chloride (mg/L) Sample Location=20 psu
Percent
60
50
40
30
20
10
0
1000.00
5000.00
9000.00
13000.00
17000.00
21000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=Station 18

Moments			
N	226	**Sum Weights**	226
Mean	131.119305	**Sum Observations**	29632.963
Std Deviation	506.545824	**Variance**	256588.672
Skewness	8.11953054	**Kurtosis**	77.9797981
Uncorrected SS	61617904.8	**Corrected SS**	57732451.2
Coeff Variation	386.324366	**Std Error Mean**	33.694927

Basic Statistical Measures			
Location		**Variability**	
Mean	131.1193	**Std Deviation**	506.54582
Median	32.9500	**Variance**	256589
Mode	19.2000	**Range**	5810
		Interquartile Range	27.70000

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

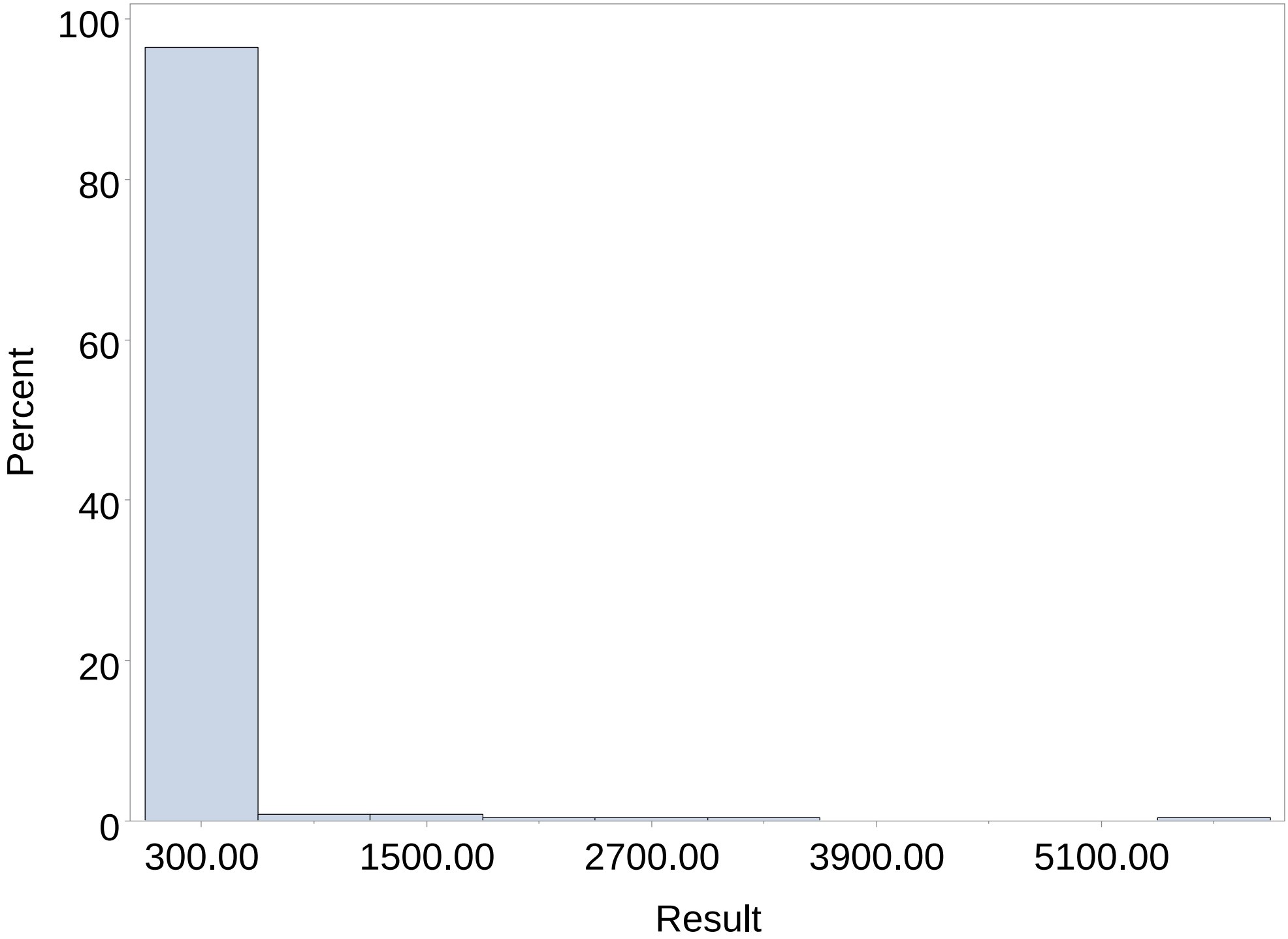
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	3.891366	**Pr > |t|**	0.0001
Sign	**M**	113	**Pr >= |M|**	<.0001
Signed Rank	**S**	12825.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5810.000
99%	2514.000
95%	466.000
90%	131.000
75% Q3	51.100
50% Median	32.950
25% Q1	23.400
10%	16.000
5%	14.600
1%	5.290
0% Min	0.353

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.353	6793	1651	6834
2.320	6948	2040	6738
5.290	6945	2514	6881
10.600	6790	3064	6845
10.700	6921	5810	6739


Parameter=Chloride (mg/L) Sample Location=Station 18
100
80
60
40
20
0
Percent
300.00
1500.00
2700.00
3900.00
5100.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	146.612676	**Sum Observations**	62457
Std Deviation	90.6056626	**Variance**	8209.3861
Skewness	1.07899725	**Kurtosis**	1.28793085
Uncorrected SS	12645977	**Corrected SS**	3488989.09
Coeff Variation	61.7993376	**Std Error Mean**	4.3898587

Basic Statistical Measures			
Location		**Variability**	
Mean	146.6127	**Std Deviation**	90.60566
Median	129.0000	**Variance**	8209
Mode	200.0000	**Range**	467.00000
		Interquartile Range	130.00000

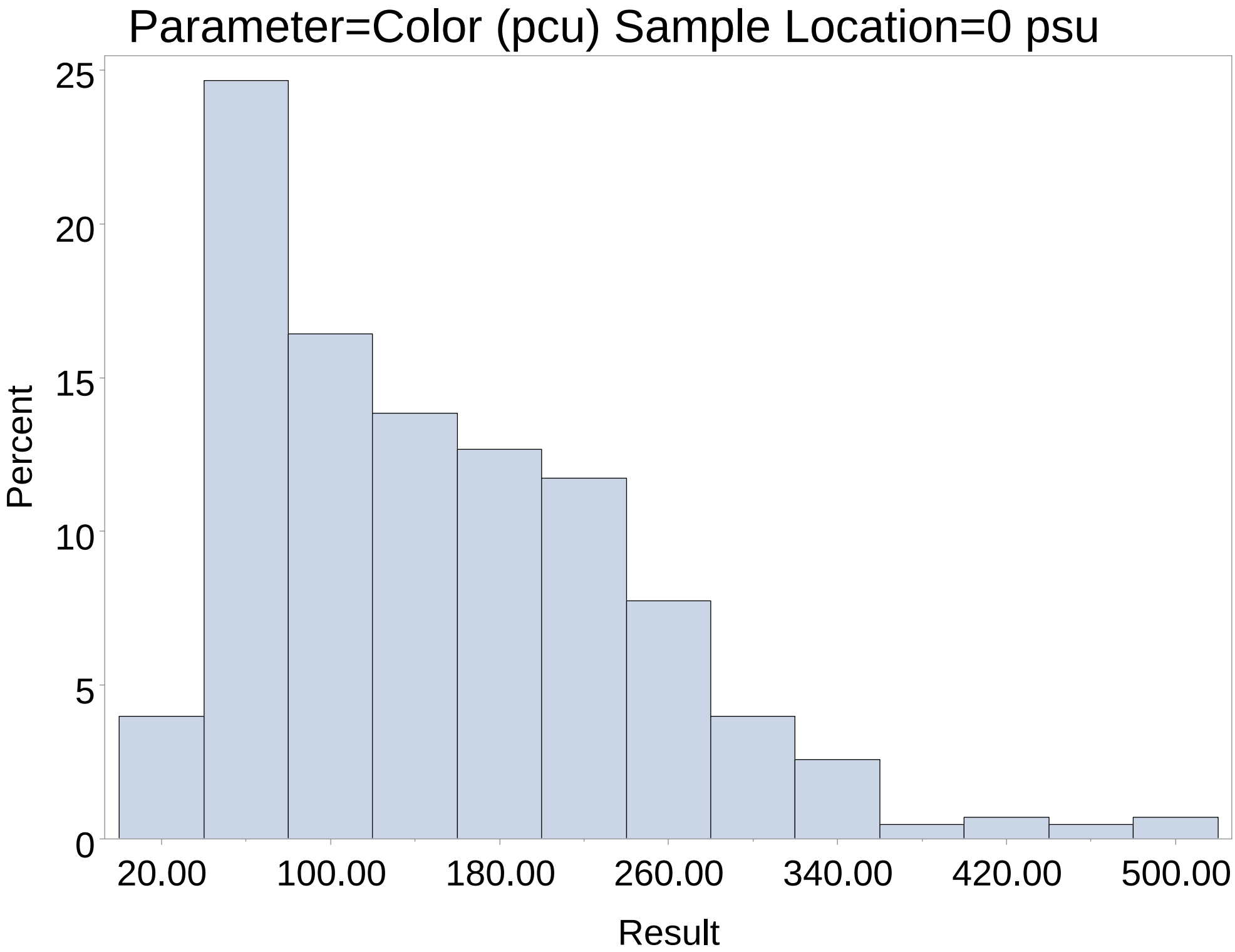
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.39804	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	450
95%	316
90%	260
75% Q3	200
50% Median	129
25% Q1	70
10%	49
5%	40
1%	35
0% Min	33

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
33	6982	450	7238
34	7126	450	7263
34	7043	500	7200
34	7032	500	7261
35	7101	500	7262


Parameter=Color (pcu) Sample Location=0 psu
Percent
25
20
15
10
5
0
20.00
100.00
180.00
260.00
340.00
420.00
500.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=6 psu

Moments			
N	427	**Sum Weights**	427
Mean	125.065574	**Sum Observations**	53403
Std Deviation	69.8187823	**Variance**	4874.66236
Skewness	1.65889338	**Kurtosis**	5.40867259
Uncorrected SS	8755483	**Corrected SS**	2076606.16
Coeff Variation	55.8257402	**Std Error Mean**	3.37876769

Basic Statistical Measures			
Location		**Variability**	
Mean	125.0656	**Std Deviation**	69.81878
Median	105.0000	**Variance**	4875
Mode	80.0000	**Range**	527.00000
		Interquartile Range	90.00000

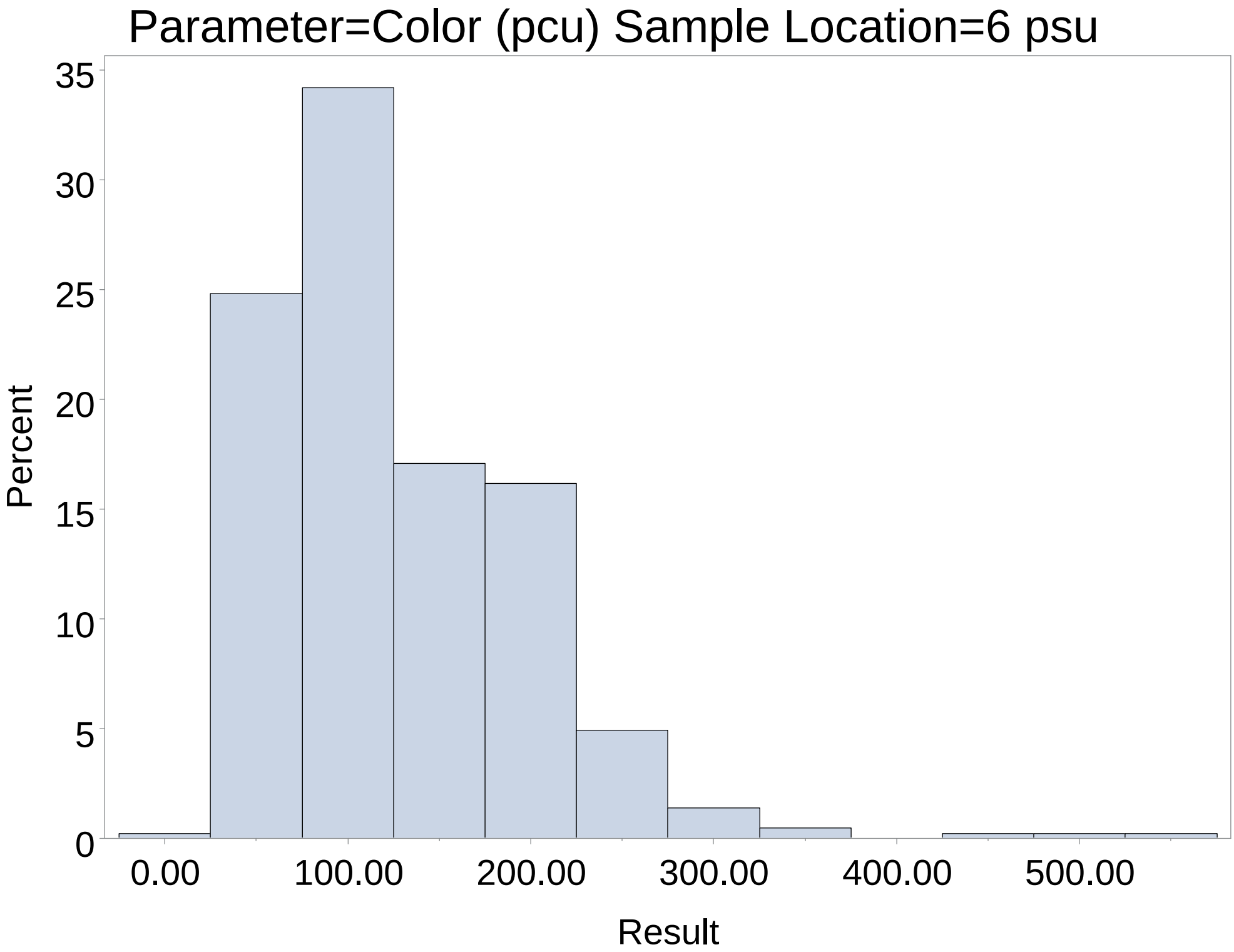
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.01514	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	550
99%	350
95%	250
90%	200
75% Q3	164
50% Median	105
25% Q1	74
10%	52
5%	47
1%	38
0% Min	23

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
23	7544	350	7688
25	7527	359	7473
35	7717	450	7626
37	7550	500	7689
38	7490	550	7738


Parameter=Color (pcu) Sample Location=6 psu
Percent
35
30
25
20
15
10
5
0
0.00
100.00
200.00
300.00
400.00
500.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	97.028103	**Sum Observations**	41431
Std Deviation	48.3806712	**Variance**	2340.68935
Skewness	1.48259072	**Kurtosis**	3.74017088
Uncorrected SS	5017105	**Corrected SS**	997133.663
Coeff Variation	49.8625344	**Std Error Mean**	2.34130478

Basic Statistical Measures			
Location		**Variability**	
Mean	97.0281	**Std Deviation**	48.38067
Median	85.0000	**Variance**	2341
Mode	100.0000	**Range**	327.00000
		Interquartile Range	65.00000

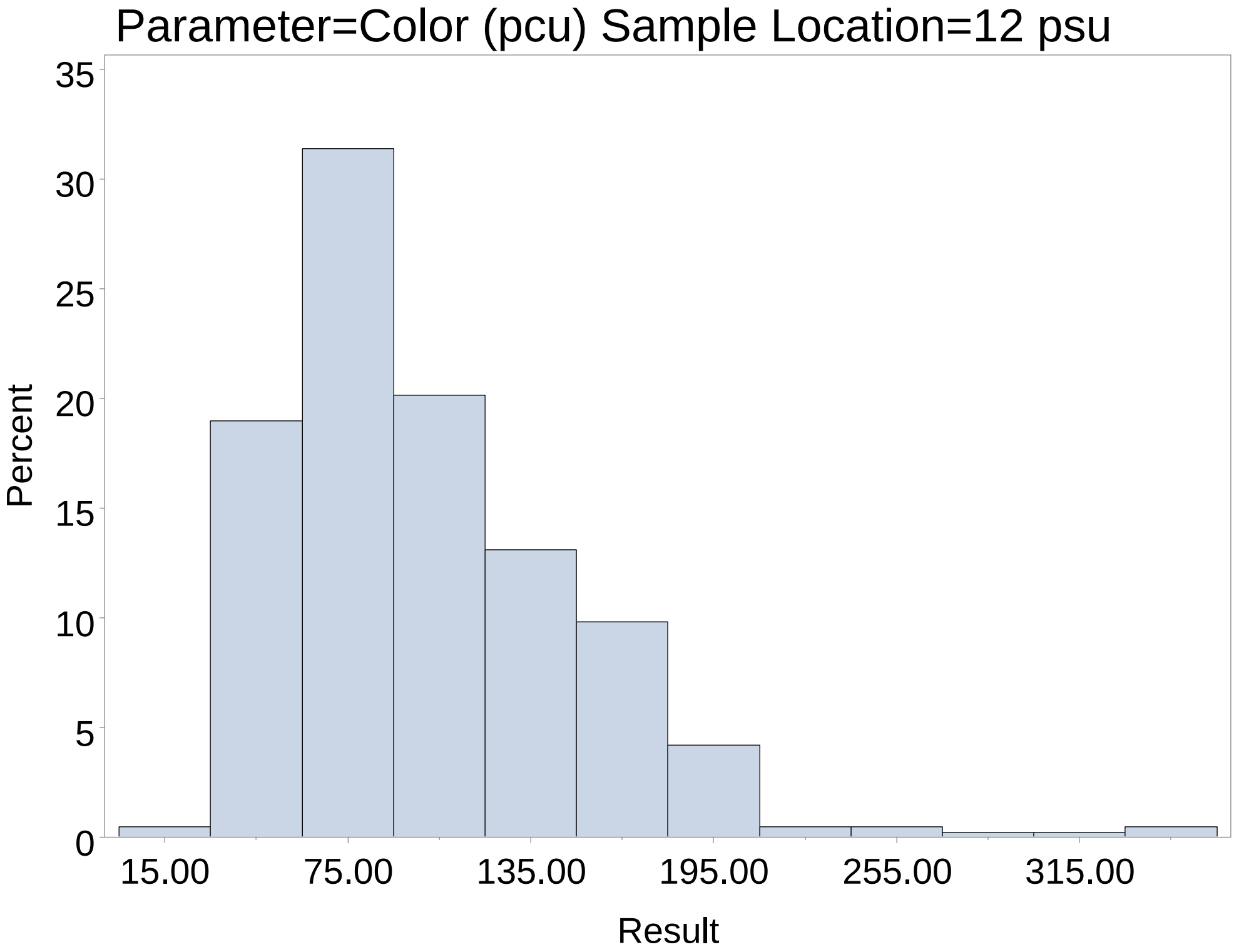
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.44189	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	350
99%	249
95%	180
90%	160
75% Q3	125
50% Median	85
25% Q1	60
10%	48
5%	43
1%	30
0% Min	23

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
23	7971	249	7900
25	7954	280	8126
30	8013	300	8115
30	7969	350	8053
30	7964	350	8116


Parameter=Color (pcu) Sample Location=12 psu
35
30
25
20
15
10
5
0
Percent
15.00
75.00
135.00
195.00
255.00
315.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	63.2295082	**Sum Observations**	26999
Std Deviation	35.7762185	**Variance**	1279.93781
Skewness	1.91154112	**Kurtosis**	5.28138699
Uncorrected SS	2252387	**Corrected SS**	545253.508
Coeff Variation	56.5815227	**Std Error Mean**	1.73133256

Basic Statistical Measures			
Location		**Variability**	
Mean	63.22951	**Std Deviation**	35.77622
Median	52.00000	**Variance**	1280
Mode	60.00000	**Range**	245.00000
		Interquartile Range	40.00000

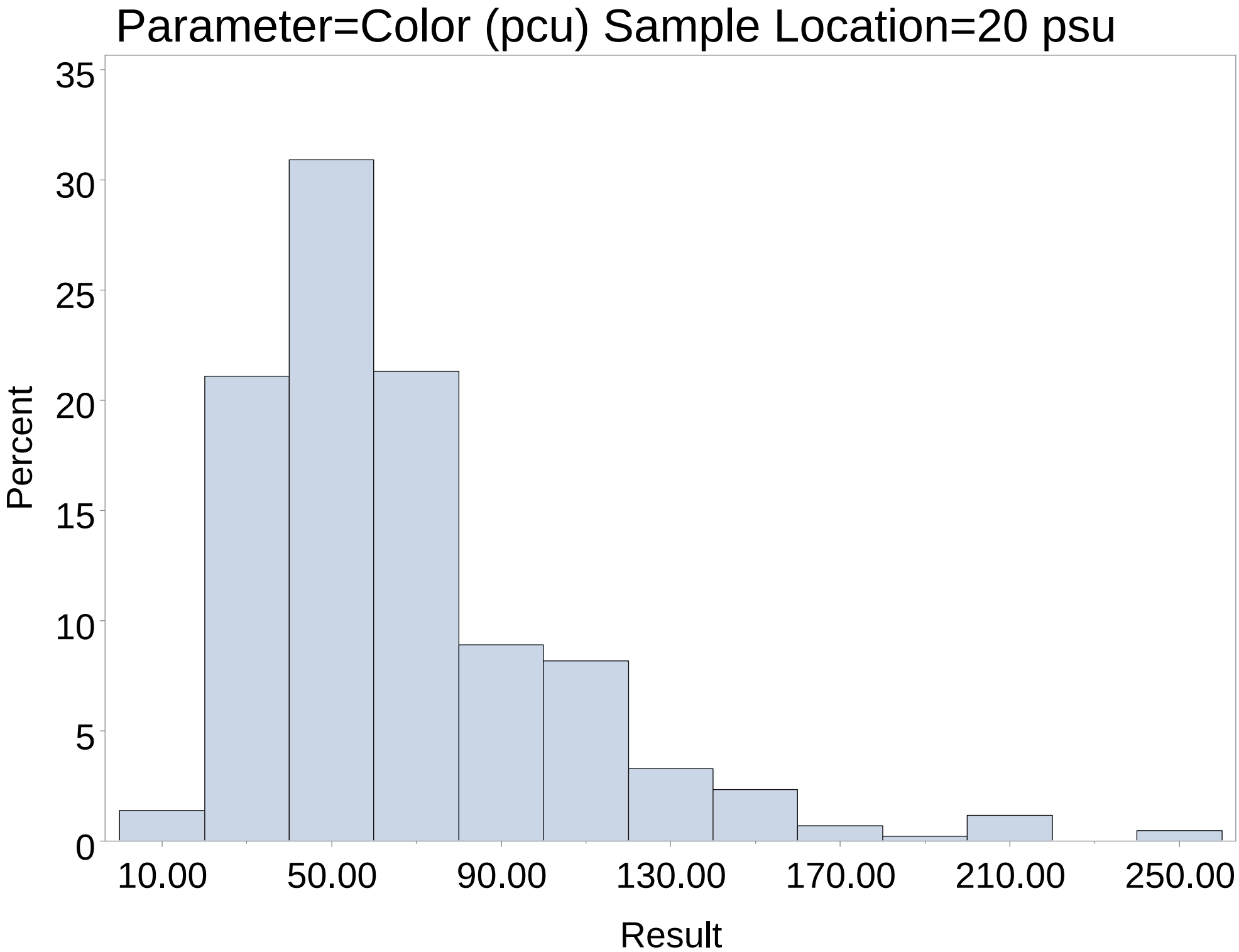
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.52072	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	250
99%	200
95%	125
90%	100
75% Q3	80
50% Median	52
25% Q1	40
10%	30
5%	27
1%	10
0% Min	5

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	8396	200	8553
5	8381	200	8592
7	8397	210	8458
10	8400	250	8542
10	8398	250	8636


Parameter=Color (pcu) Sample Location=20 psu
Percent
35
30
25
20
15
10
5
0
10.00
50.00
90.00
130.00
170.00
210.00
250.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	156.971366	**Sum Observations**	35632.5
Std Deviation	102.951102	**Variance**	10598.9295
Skewness	1.35847325	**Kurtosis**	2.62858189
Uncorrected SS	7988640.25	**Corrected SS**	2395358.06
Coeff Variation	65.5859124	**Std Error Mean**	6.83310466

Basic Statistical Measures			
Location		**Variability**	
Mean	156.9714	**Std Deviation**	102.95110
Median	140.0000	**Variance**	10599
Mode	200.0000	**Range**	597.50000
		Interquartile Range	150.00000

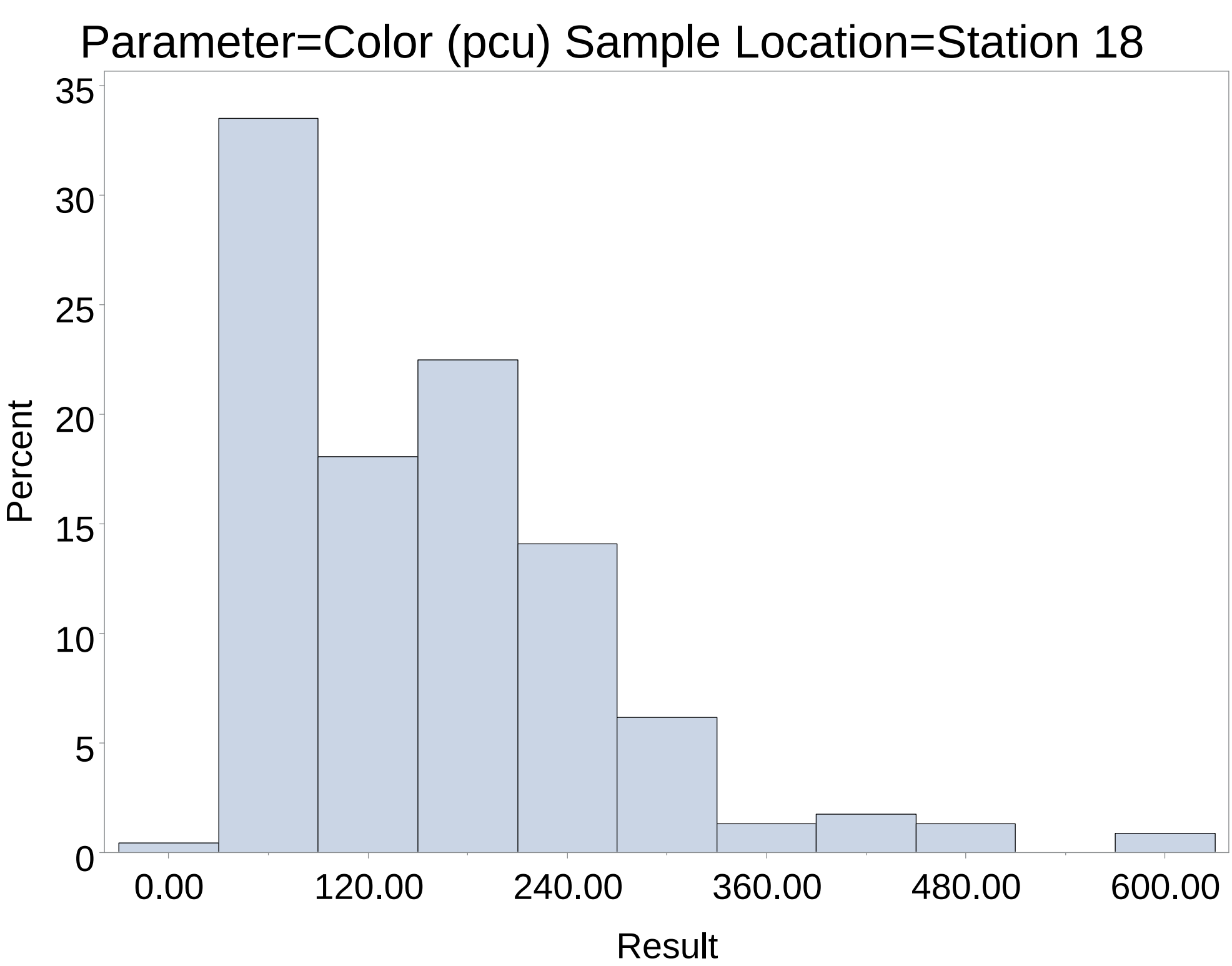
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.97219	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	600.0
99%	500.0
95%	350.0
90%	280.0
75% Q3	220.0
50% Median	140.0
25% Q1	70.0
10%	50.0
5%	50.0
1%	40.0
0% Min	2.5

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.5	8881	450	8747
40.0	8799	450	8772
40.0	8755	500	8770
43.0	8670	600	8708
45.0	8756	600	8771


Parameter=Color (pcu) Sample Location=Station 18
Percent
35
30
25
20
15
10
5
0
0.00
120.00
240.00
360.00
480.00
600.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=0 psu

Moments			
N	427	**Sum Weights**	427
Mean	1627.35082	**Sum Observations**	694878.8
Std Deviation	4492.26761	**Variance**	20180468.3
Skewness	6.02732958	**Kurtosis**	40.6311372
Uncorrected SS	9727691091	**Corrected SS**	8596879506
Coeff Variation	276.047891	**Std Error Mean**	217.396067

Basic Statistical Measures			
Location		**Variability**	
Mean	1627.351	**Std Deviation**	4492
Median	571.000	**Variance**	20180468
Mode	500.000	**Range**	41757
		Interquartile Range	347.90000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

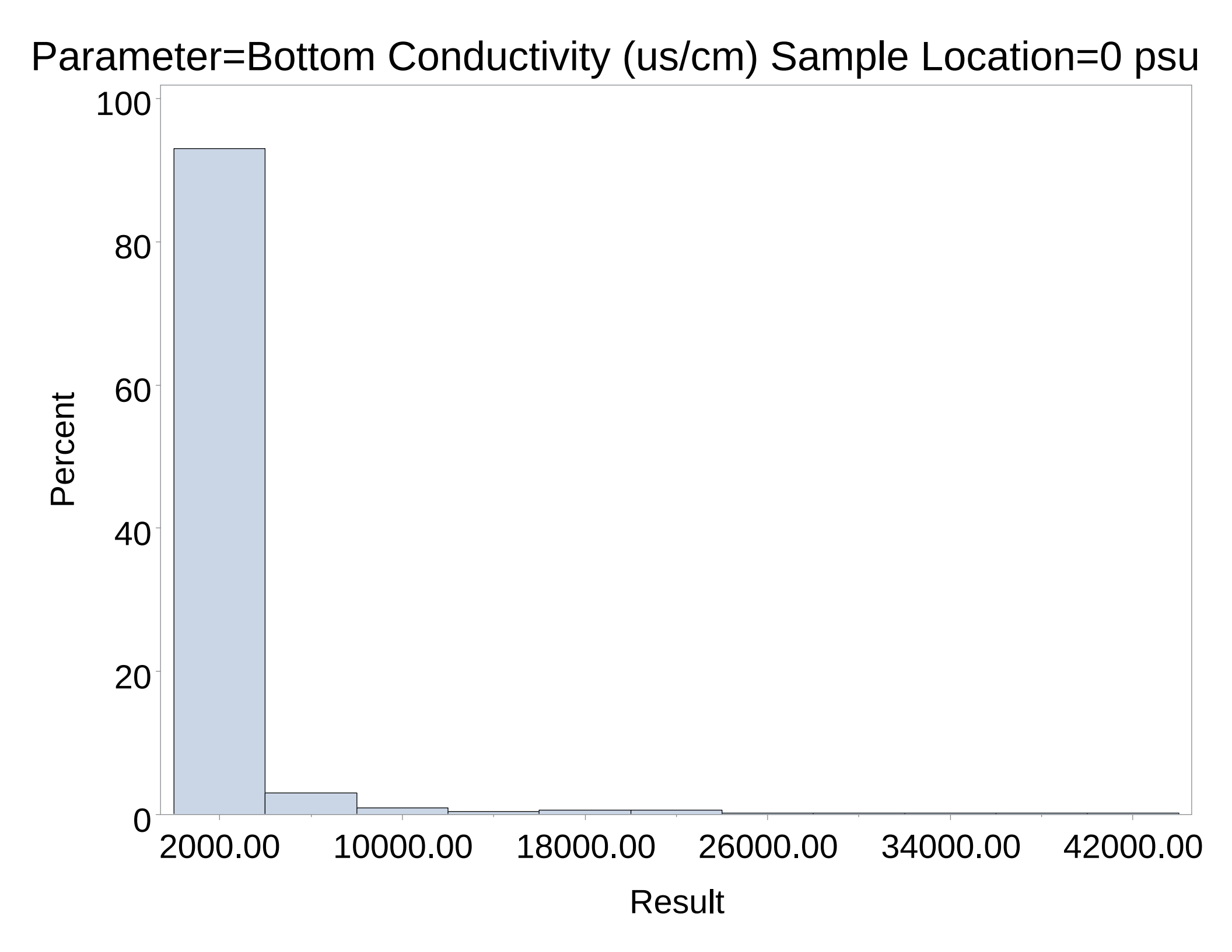
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.48565	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41922.0
99%	24300.0
95%	4998.0
90%	2040.0
75% Q3	821.9
50% Median	571.0
25% Q1	474.0
10%	364.0
5%	300.0
1%	203.0
0% Min	165.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
165	9040	24300	9029
188	9039	28349	9128
197	9089	34357	9157
203	9076	39557	9291
203	9071	41922	9303


Parameter=Bottom Conductivity (us/cm) Sample Location=0 psu
100
80
60
40
20
0
Percent
2000.00
10000.00
18000.00
26000.00
34000.00
42000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	19666.7529	**Sum Observations**	8437037
Std Deviation	8886.62282	**Variance**	78972065.1
Skewness	1.21801487	**Kurtosis**	1.02778226
Uncorrected SS	1.99729E11	**Corrected SS**	3.38E10
Coeff Variation	45.1860195	**Std Error Mean**	429.050193

Basic Statistical Measures			
Location		**Variability**	
Mean	19666.75	**Std Deviation**	8887
Median	16205.00	**Variance**	78972065
Mode	13000.00	**Range**	46705
		Interquartile Range	11900

Note: The mode displayed is the smallest of 5 modes with a count of 3.

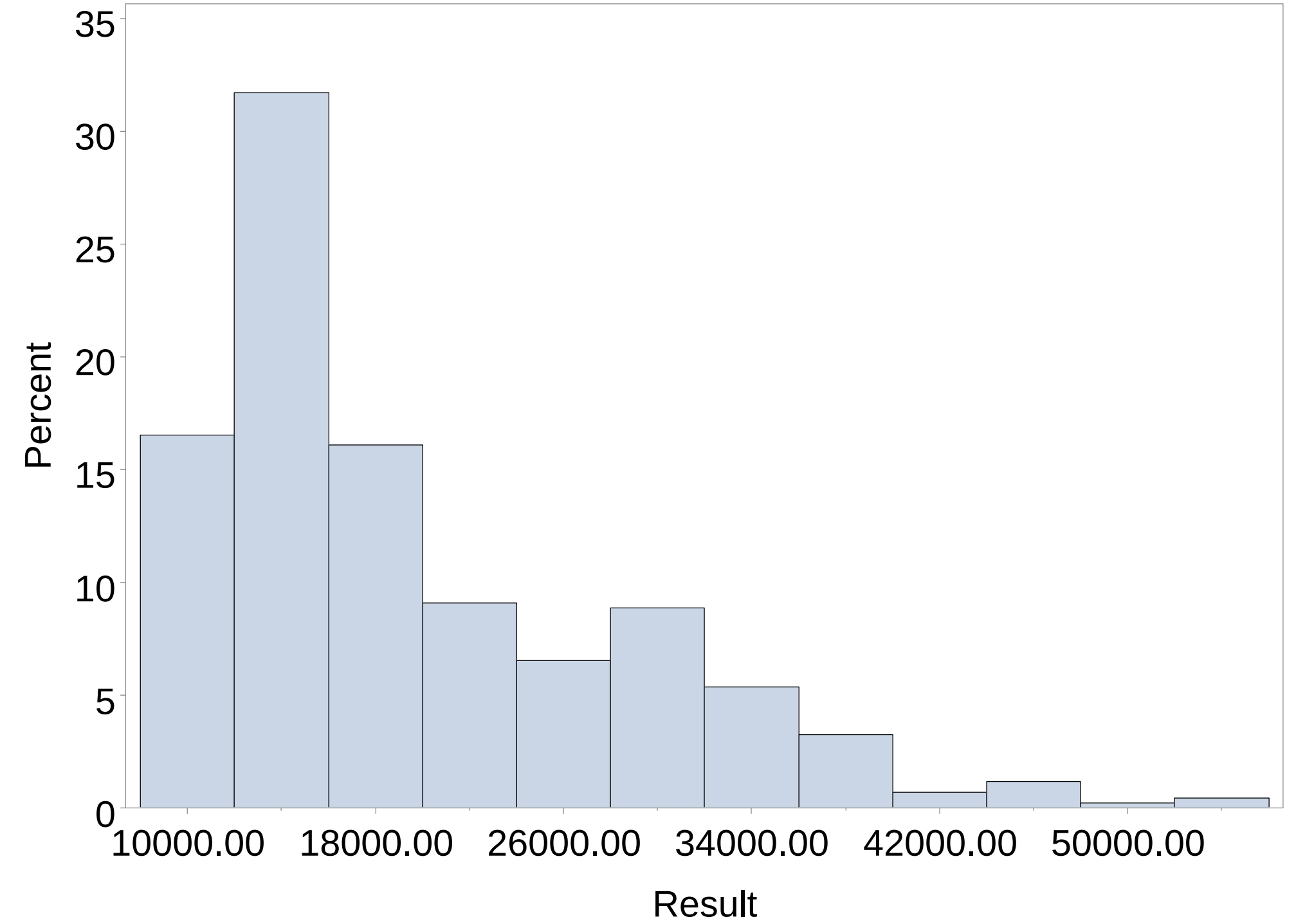
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.83788	**Pr > |t|**	<.0001
Sign	**M**	214.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	46117.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	55435
99%	47541
95%	36169
90%	32790
75% Q3	24600
50% Median	16205
25% Q1	12700
10%	11334
5%	10908
1%	10153
0% Min	8730

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8730	9369	47541	9634
9700	9366	47782	9732
9990	9408	49903	9720
10100	9365	53000	9717
10153	9625	55435	9681


Parameter=Bottom Conductivity (us/cm) Sample Location=6 psu
35
30
25
20
15
10
5
0
Percent
10000.00
18000.00
26000.00
34000.00
42000.00
50000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	29575.9463	**Sum Observations**	12658505
Std Deviation	7588.01552	**Variance**	57577979.5
Skewness	1.18762001	**Kurtosis**	2.39350514
Uncorrected SS	3.98973E11	**Corrected SS**	2.45858E10
Coeff Variation	25.6560363	**Std Error Mean**	366.780574

Basic Statistical Measures			
Location		**Variability**	
Mean	29575.95	**Std Deviation**	7588
Median	28200.00	**Variance**	57577979
Mode	22900.00	**Range**	52673
		Interquartile Range	11163

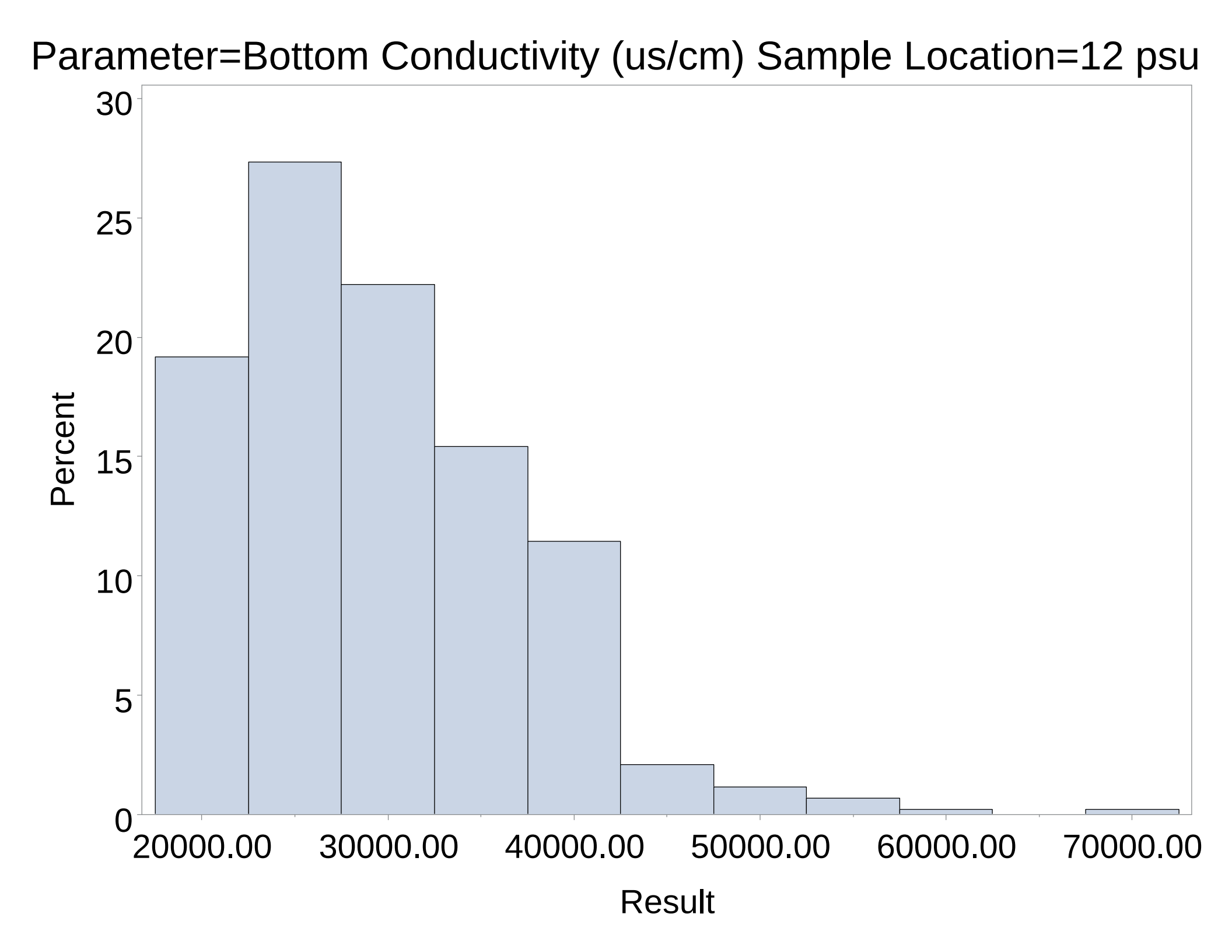
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	80.63662	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	72173
99%	53900
95%	42357
90%	39646
75% Q3	34345
50% Median	28200
25% Q1	23182
10%	21485
5%	20970
1%	20257
0% Min	19500

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19500	9795	53900	10145
19900	9875	54169	10098
20167	10055	55365	10014
20229	10051	58322	10109
20257	10053	72173	10148


Parameter=Bottom Conductivity (us/cm) Sample Location=12 psu
Percent
30
25
20
15
10
5
0
20000.00
30000.00
40000.00
50000.00
60000.00
70000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=20 psu

Moments			
N	428	**Sum Weights**	428
Mean	38352.528	**Sum Observations**	16414882
Std Deviation	5561.52219	**Variance**	30930529
Skewness	1.86722869	**Kurtosis**	6.49521128
Uncorrected SS	6.4276E11	**Corrected SS**	1.32073E10
Coeff Variation	14.5010576	**Std Error Mean**	268.826322

Basic Statistical Measures			
Location		**Variability**	
Mean	38352.53	**Std Deviation**	5562
Median	37000.00	**Variance**	30930529
Mode	36600.00	**Range**	45394
		Interquartile Range	6450

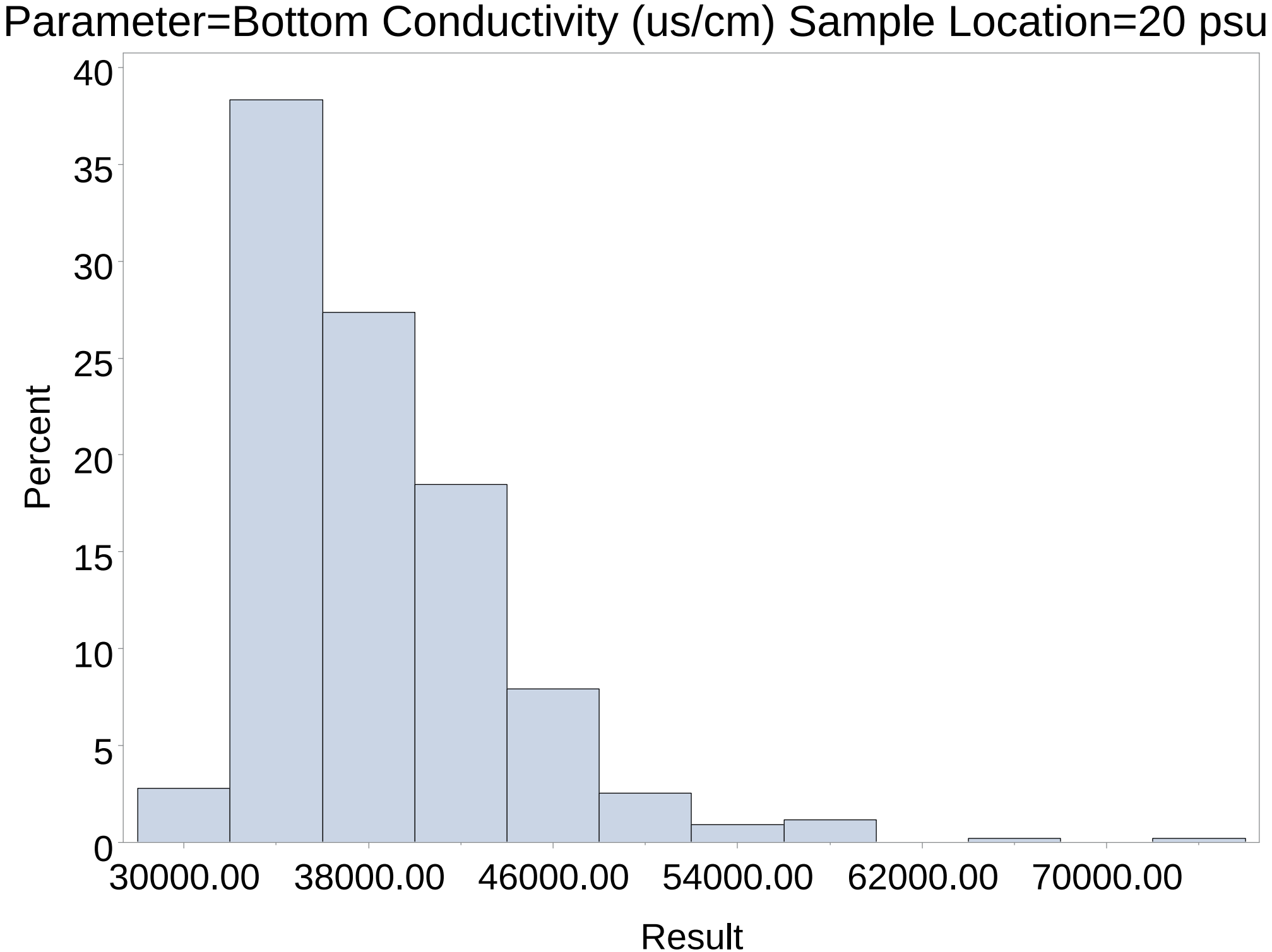
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	142.6666	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	74684
99%	56772
95%	48181
90%	45060
75% Q3	41150
50% Median	37000
25% Q1	34700
10%	32800
5%	32200
1%	30910
0% Min	29290

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
29290	10357	56772	10442
29950	10359	57808	10599
30000	10263	59389	10537
30500	10277	67802	10419
30910	10353	74684	10576


Parameter=Bottom Conductivity (us/cm) Sample Location=20 psu
Percent
0
5
10
15
20
25
30
35
40
30000.00
38000.00
46000.00
54000.00
62000.00
70000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	806.742152	**Sum Observations**	179903.5
Std Deviation	1301.93112	**Variance**	1695024.65
Skewness	5.52647561	**Kurtosis**	35.3506308
Uncorrected SS	521431209	**Corrected SS**	376295473
Coeff Variation	161.381319	**Std Error Mean**	87.1837565

Basic Statistical Measures			
Location		**Variability**	
Mean	806.7422	**Std Deviation**	1302
Median	506.0000	**Variance**	1695025
Mode	269.0000	**Range**	10843
		Interquartile Range	342.00000

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**	9.253354	**Pr > |t|**	<.0001
Sign	**M**	111.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12488	**Pr >= |S|**	<.0001

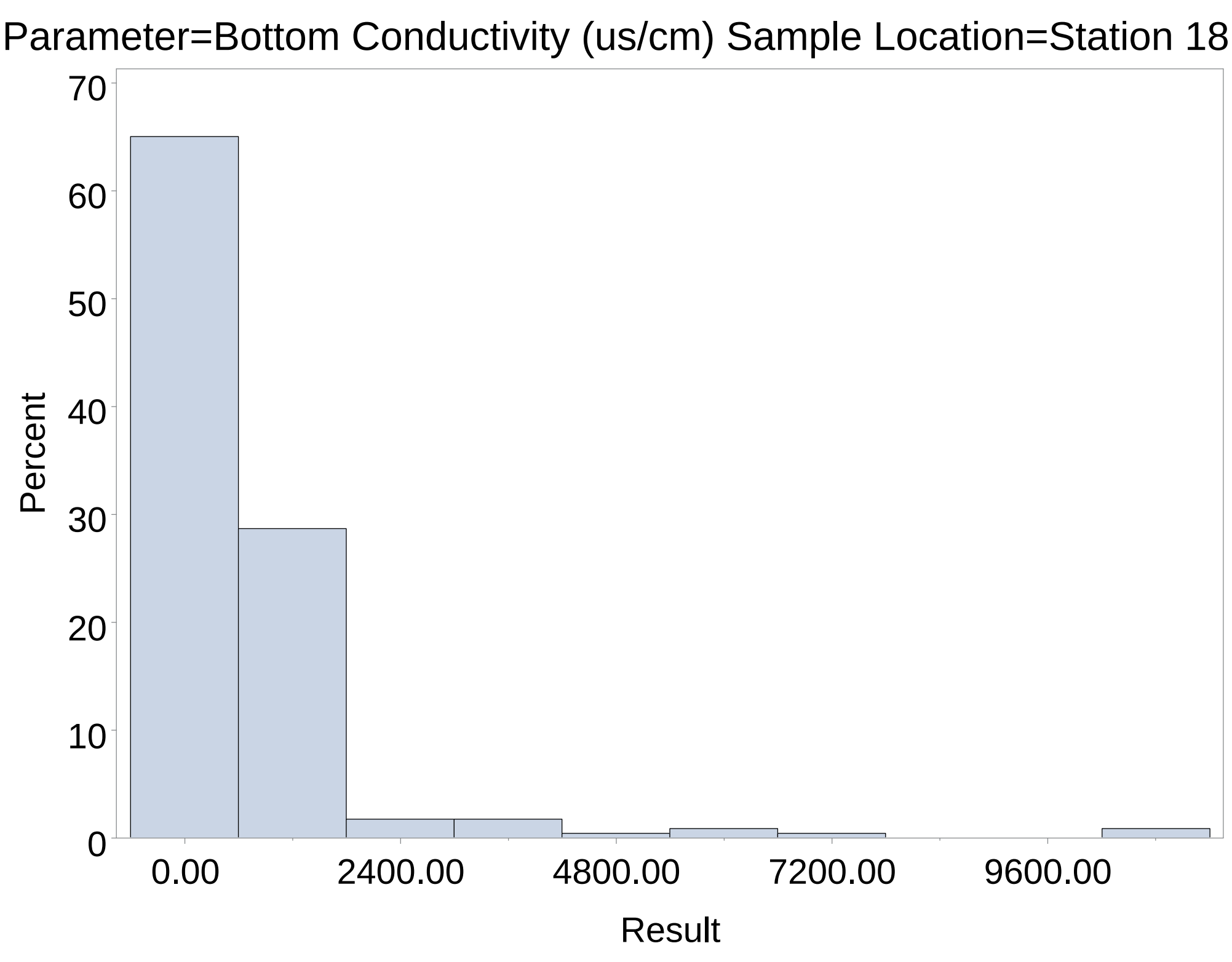
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10952.0
99%	7310.0
95%	2388.0
90%	1099.0
75% Q3	699.3
50% Median	506.0
25% Q1	357.3
10%	261.7
5%	240.0
1%	139.0
0% Min	109.1

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
109.1	10657	5597	10677
134.9	10656	6062	10701
139.0	10812	7310	10747
176.0	10620	10747	10748
186.6	10645	10952	10712

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.45	100.00


Parameter=Bottom Conductivity (us/cm) Sample Location=Station 18
70
60
50
40
30
20
10
0
Percent
0.00
2400.00
4800.00
7200.00
9600.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	666.09108	**Sum Observations**	283754.8
Std Deviation	600.934334	**Variance**	361122.073
Skewness	4.96267597	**Kurtosis**	29.866647
Uncorrected SS	342483422	**Corrected SS**	153476881
Coeff Variation	90.2180425	**Std Error Mean**	29.1153636

Basic Statistical Measures			
Location		**Variability**	
Mean	666.0911	**Std Deviation**	600.93433
Median	513.3500	**Variance**	361122
Mode	500.0000	**Range**	5653
		Interquartile Range	229.40000

Note: The mode displayed is the smallest of 2 modes with a count of 10.

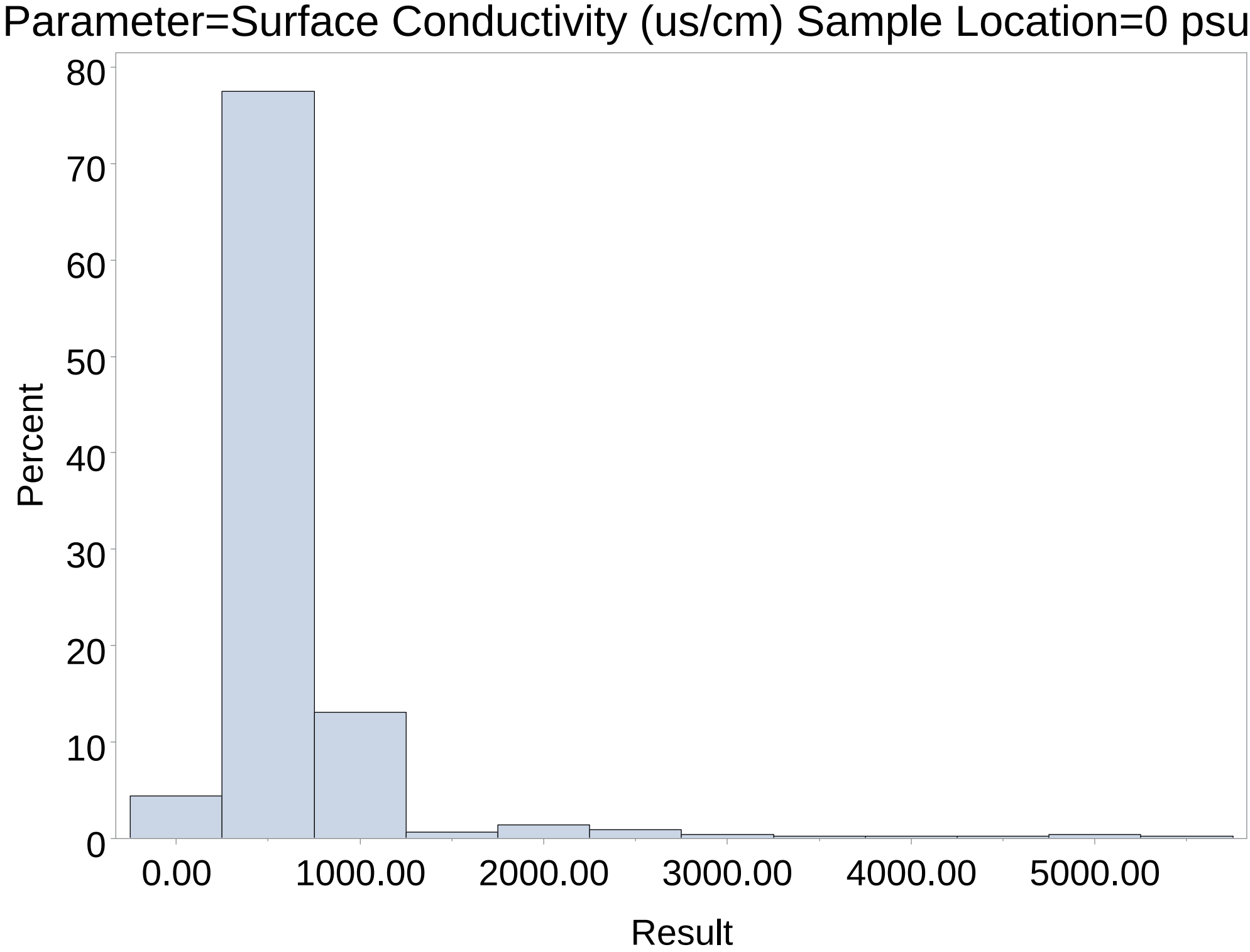
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.87765	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5660.00
99%	3870.00
95%	1247.00
90%	951.10
75% Q3	682.40
50% Median	513.35
25% Q1	453.00
10%	340.00
5%	255.00
1%	125.00
0% Min	7.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	11018	3870	10898
10	10912	4300	10867
59	10956	4933	11070
108	10928	4991	11071
125	10980	5660	11032


Parameter=Surface Conductivity (us/cm) Sample Location=0 psu
Percent
80
70
60
50
40
30
20
10
0
0.00
1000.00
2000.00
3000.00
4000.00
5000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	11185.4615	**Sum Observations**	4798563
Std Deviation	1907.2832	**Variance**	3637729.19
Skewness	0.21816118	**Kurtosis**	14.1488202
Uncorrected SS	5.52311E10	**Corrected SS**	1556948095
Coeff Variation	17.0514483	**Std Error Mean**	92.0845005

Basic Statistical Measures			
Location		**Variability**	
Mean	11185.46	**Std Deviation**	1907
Median	10833.00	**Variance**	3637729
Mode	10700.00	**Range**	23980
		Interquartile Range	1057

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

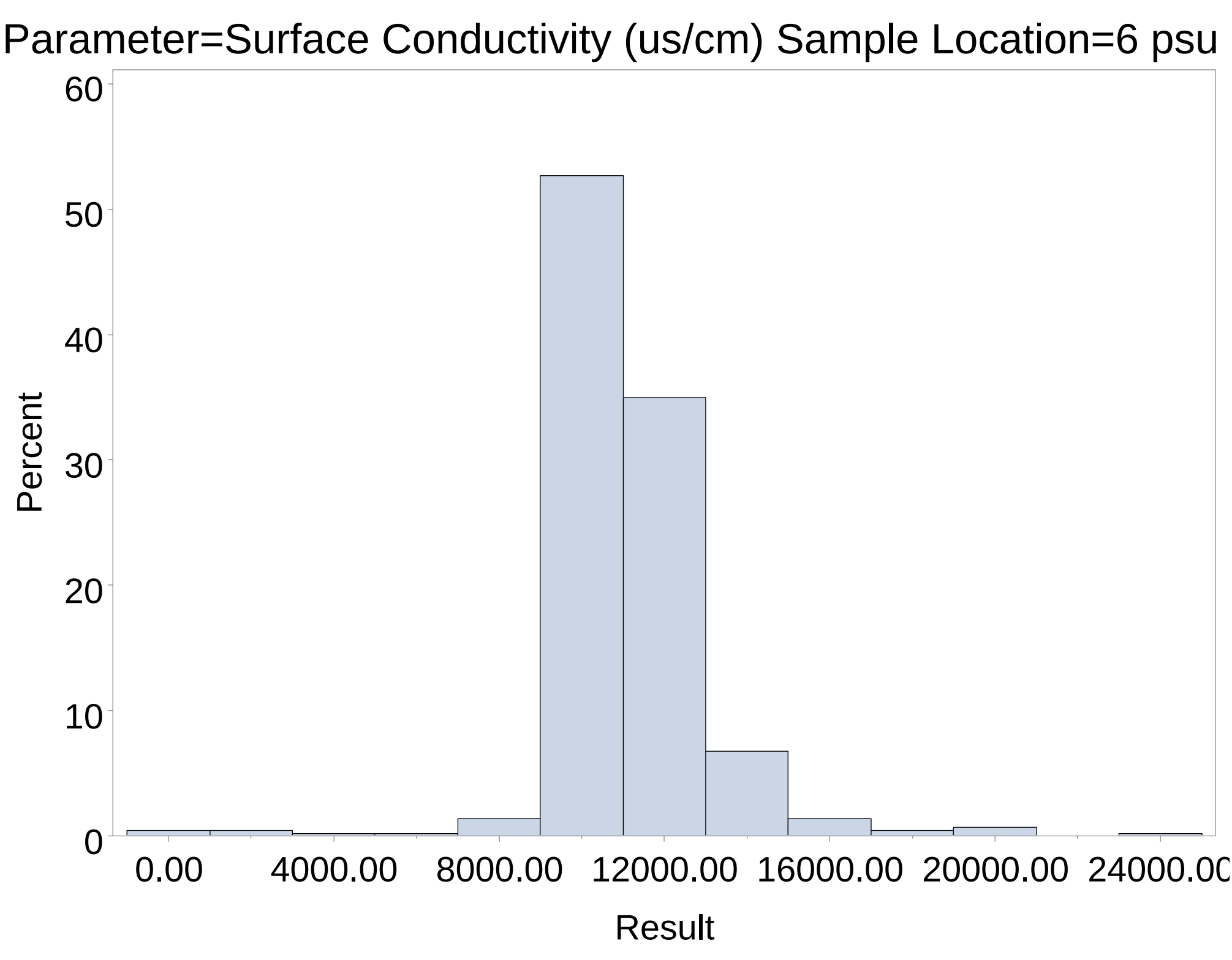
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	121.4695	**Pr > |t|**	<.0001
Sign	**M**	214.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	46117.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24005
99%	18300
95%	14140
90%	12950
75% Q3	11620
50% Median	10833
25% Q1	10563
10%	10028
5%	9535
1%	4000
0% Min	25

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
25	11430	18300	11334
954	11608	19080	11448
1808	11432	19200	11415
1989	11632	20151	11514
4000	11280	24005	11517


Parameter=Surface Conductivity (us/cm) Sample Location=6 psu
Percent
60
50
40
30
20
10
0
0.00
4000.00
8000.00
12000.00
16000.00
20000.00
24000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	20775.9229	**Sum Observations**	8892095
Std Deviation	2118.7478	**Variance**	4489092.24
Skewness	1.41447714	**Kurtosis**	28.7153487
Uncorrected SS	1.86658E11	**Corrected SS**	1916842386
Coeff Variation	10.1980923	**Std Error Mean**	102.41354

Basic Statistical Measures			
Location		**Variability**	
Mean	20775.92	**Std Deviation**	2119
Median	20420.50	**Variance**	4489092
Mode	20900.00	**Range**	33437
		Interquartile Range	1107

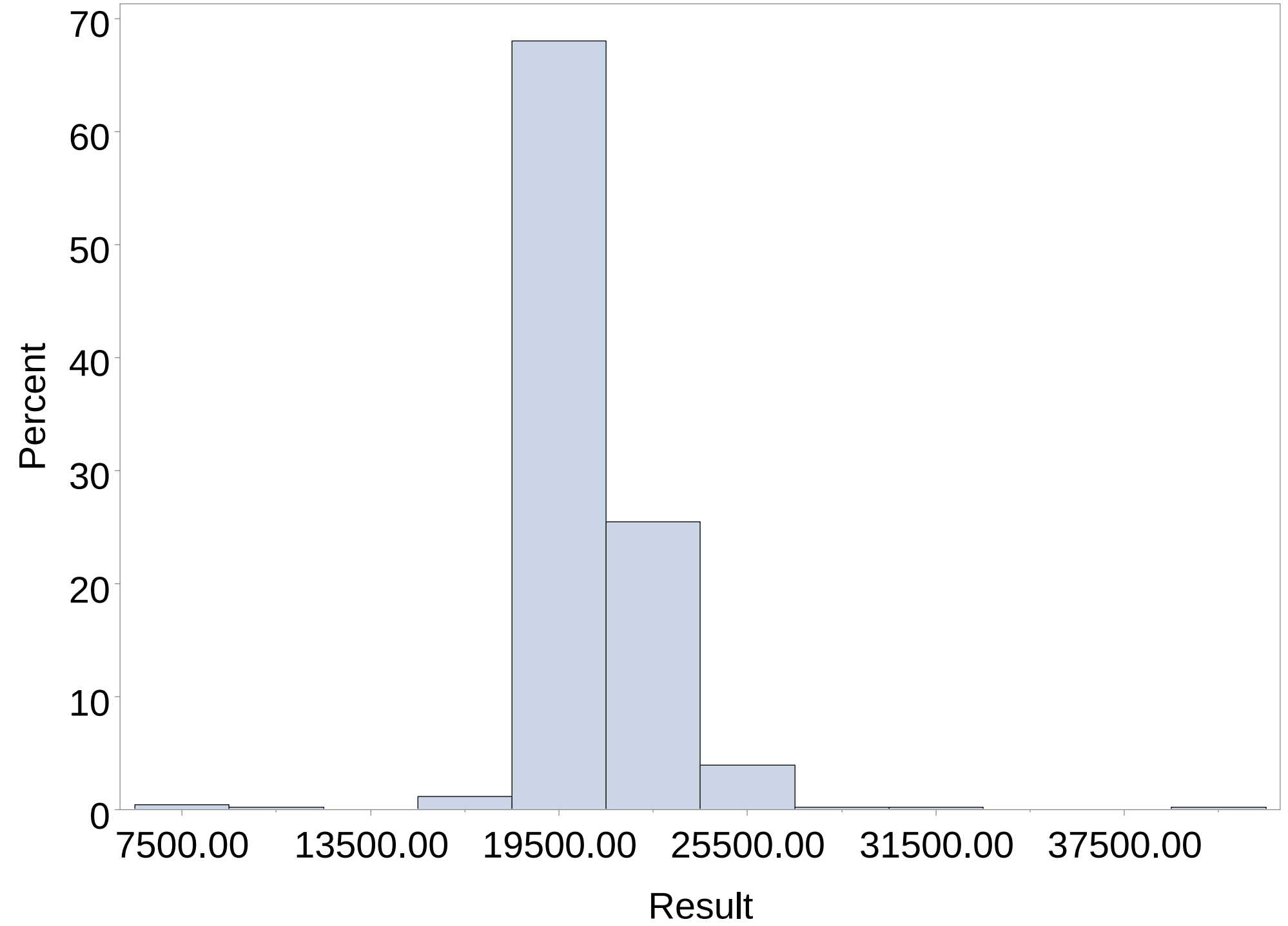
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	202.863	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40827.0
99%	26500.0
95%	23560.0
90%	22647.0
75% Q3	21200.0
50% Median	20420.5
25% Q1	20093.0
10%	19487.0
5%	19073.0
1%	16270.0
0% Min	7390.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7390	11801	26500	11771
8150	11748	26679	12081
9360	11851	29300	11759
16270	11770	32080	11876
16270	11769	40827	12062


Parameter=Surface Conductivity (us/cm) Sample Location=12 psu
70
60
50
40
30
20
10
0
Percent
7500.00
13500.00
19500.00
25500.00
31500.00
37500.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=20 psu

Moments			
N	426	**Sum Weights**	426
Mean	32613.7559	**Sum Observations**	13893460
Std Deviation	1790.62751	**Variance**	3206346.88
Skewness	-0.5061106	**Kurtosis**	11.6650099
Uncorrected SS	4.54481E11	**Corrected SS**	1362697423
Coeff Variation	5.49040569	**Std Error Mean**	86.7561863

Basic Statistical Measures			
Location		**Variability**	
Mean	32613.76	**Std Deviation**	1791
Median	32381.00	**Variance**	3206347
Mode	32100.00	**Range**	21772
		Interquartile Range	1414

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	375.9243	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

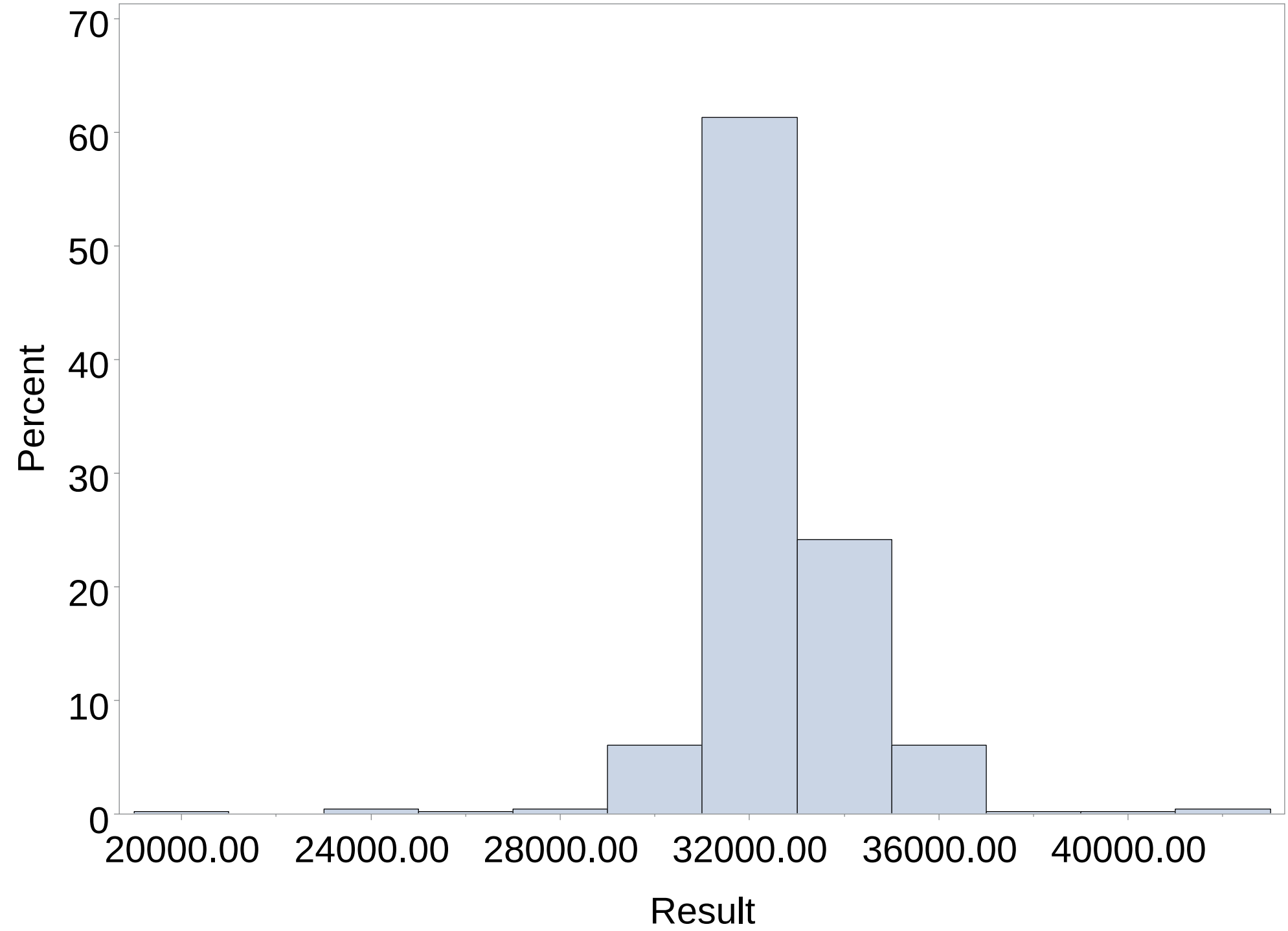
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41572
99%	36900
95%	35500
90%	34600
75% Q3	33400
50% Median	32381
25% Q1	31986
10%	31290
5%	30210
1%	28200
0% Min	19800

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19800	12278	36900	12113
23472	12355	37700	12239
23975	12324	40600	12187
26680	12291	41215	12473
28200	12172	41572	12375

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.23	100.00


Parameter=Surface Conductivity (us/cm) Sample Location=20 psu
Percent
70
60
50
40
30
20
10
0
20000.00
24000.00
28000.00
32000.00
36000.00
40000.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	768.604036	**Sum Observations**	171398.7
Std Deviation	1153.74304	**Variance**	1331123.01
Skewness	5.57270501	**Kurtosis**	36.3472021
Uncorrected SS	427247040	**Corrected SS**	295509308
Coeff Variation	150.108897	**Std Error Mean**	77.2603486

Basic Statistical Measures			
Location		**Variability**	
Mean	768.6040	**Std Deviation**	1154
Median	511.0000	**Variance**	1331123
Mode	269.0000	**Range**	9909
		Interquartile Range	342.20000

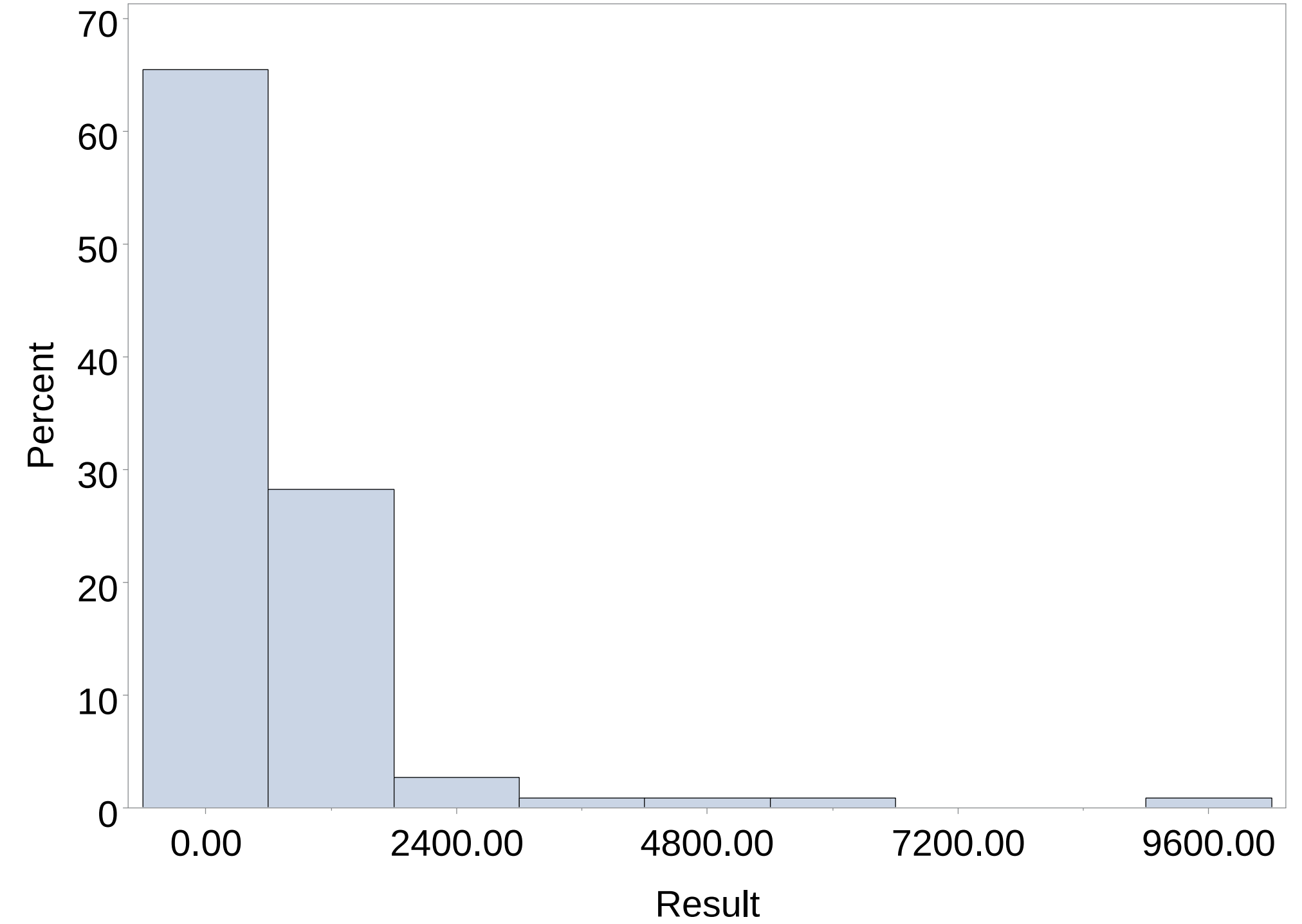
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.948234	**Pr > |t|**	<.0001
Sign	**M**	111.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12488	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10020.0
99%	6265.0
95%	2229.0
90%	1077.0
75% Q3	700.2
50% Median	511.0
25% Q1	358.0
10%	261.1
5%	240.0
1%	143.0
0% Min	111.2

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
111.2	12591	4743	12611
132.3	12590	5510	12635
143.0	12746	6265	12681
174.0	12554	9500	12682
186.6	12579	10020	12646


Parameter=Surface Conductivity (us/cm) Sample Location=Station 18
70
60
50
40
30
20
10
0
Percent
0.00
2400.00
4800.00
7200.00
9600.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=0 psu

Moments			
N	158	**Sum Weights**	158
Mean	19.926519	**Sum Observations**	3148.39
Std Deviation	9.89367242	**Variance**	97.884754
Skewness	2.02707604	**Kurtosis**	8.17440652
Uncorrected SS	78104.3595	**Corrected SS**	15367.9064
Coeff Variation	49.6507816	**Std Error Mean**	0.78709832

Basic Statistical Measures			
Location		**Variability**	
Mean	19.92652	**Std Deviation**	9.89367
Median	18.20000	**Variance**	97.88475
Mode	15.00000	**Range**	73.59000
		Interquartile Range	11.30000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

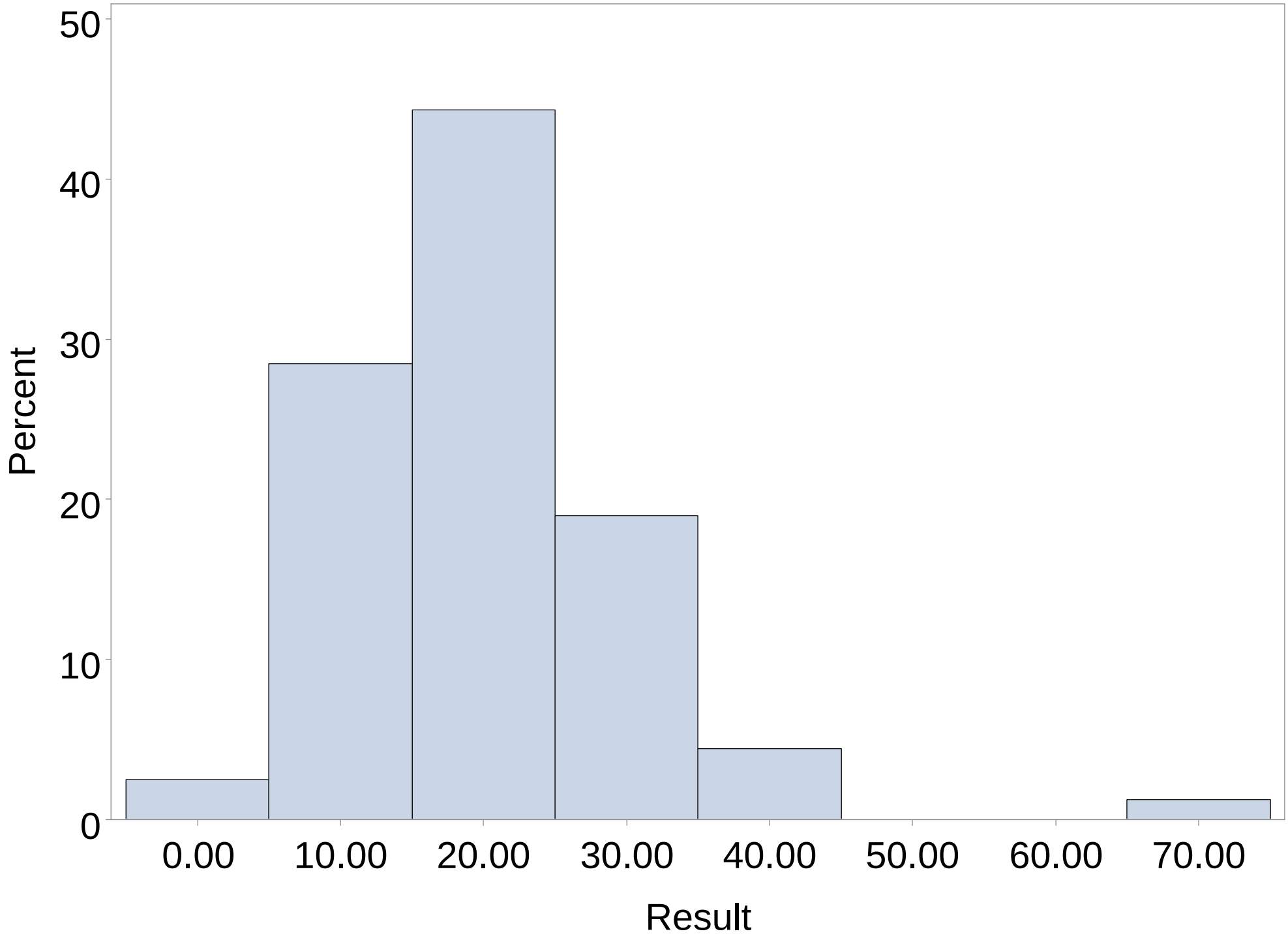
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.31643	**Pr > |t|**	<.0001
Sign	**M**	79	**Pr >= |M|**	<.0001
Signed Rank	**S**	6280.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	73.80
99%	69.00
95%	36.70
90%	30.80
75% Q3	24.60
50% Median	18.20
25% Q1	13.30
10%	10.60
5%	8.21
1%	3.79
0% Min	0.21

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.21	12771	40.7	12781
3.79	12772	42.4	12856
4.27	12768	44.3	12783
4.35	12770	69.0	12782
7.48	12769	73.8	12785


Parameter=DOC Sample Location=0 psu
Percent
50
40
30
20
10
0
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=6 psu

Moments			
N	158	**Sum Weights**	158
Mean	17.2460127	**Sum Observations**	2724.87
Std Deviation	6.39683251	**Variance**	40.9194662
Skewness	0.9666503	**Kurtosis**	3.38682936
Uncorrected SS	53417.4987	**Corrected SS**	6424.35619
Coeff Variation	37.0916608	**Std Error Mean**	0.50890467

Basic Statistical Measures			
Location		**Variability**	
Mean	17.24601	**Std Deviation**	6.39683
Median	16.40000	**Variance**	40.91947
Mode	16.00000	**Range**	48.20000
		Interquartile Range	6.90000

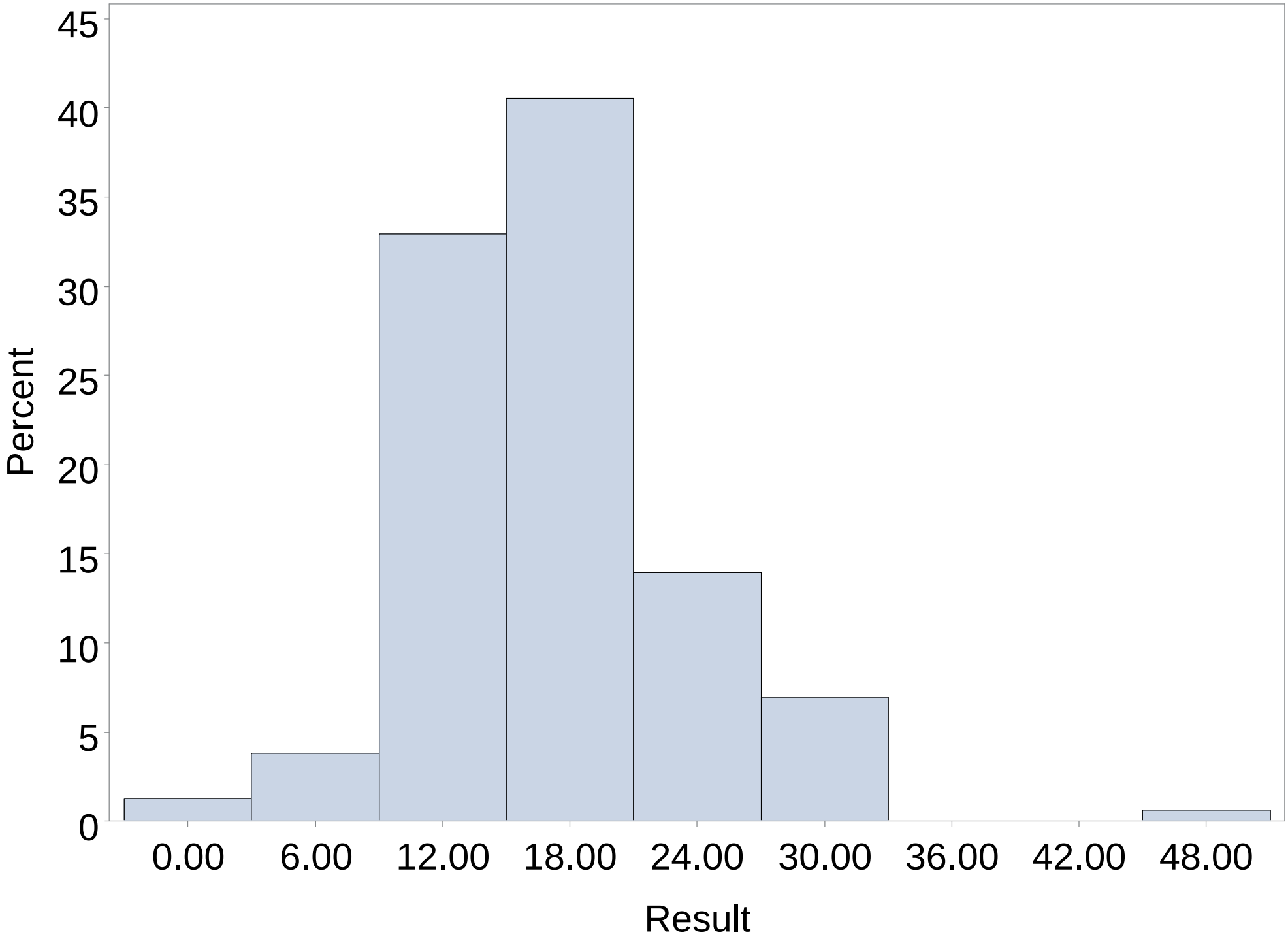
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.88849	**Pr > |t|**	<.0001
Sign	**M**	78.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6201.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	48.20
99%	32.90
95%	31.00
90%	24.60
75% Q3	20.00
50% Median	16.40
25% Q1	13.10
10%	10.56
5%	8.86
1%	0.30
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	12941	32.4	12939
0.30	13074	32.4	12942
4.26	12947	32.6	12943
6.06	12929	32.9	13017
7.52	12927	48.2	12940


Parameter=DOC Sample Location=6 psu
Percent
45
40
35
30
25
20
15
10
5
0
0.00
6.00
12.00
18.00
24.00
30.00
36.00
42.00
48.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=12 psu

Moments			
N	158	**Sum Weights**	158
Mean	15.7953797	**Sum Observations**	2495.67
Std Deviation	7.10609693	**Variance**	50.4966135
Skewness	4.94838569	**Kurtosis**	40.1147662
Uncorrected SS	47348.0237	**Corrected SS**	7927.96833
Coeff Variation	44.9884526	**Std Error Mean**	0.56533072

Basic Statistical Measures			
Location		**Variability**	
Mean	15.79538	**Std Deviation**	7.10610
Median	14.34000	**Variance**	50.49661
Mode	12.50000	**Range**	76.38000
		Interquartile Range	5.20000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

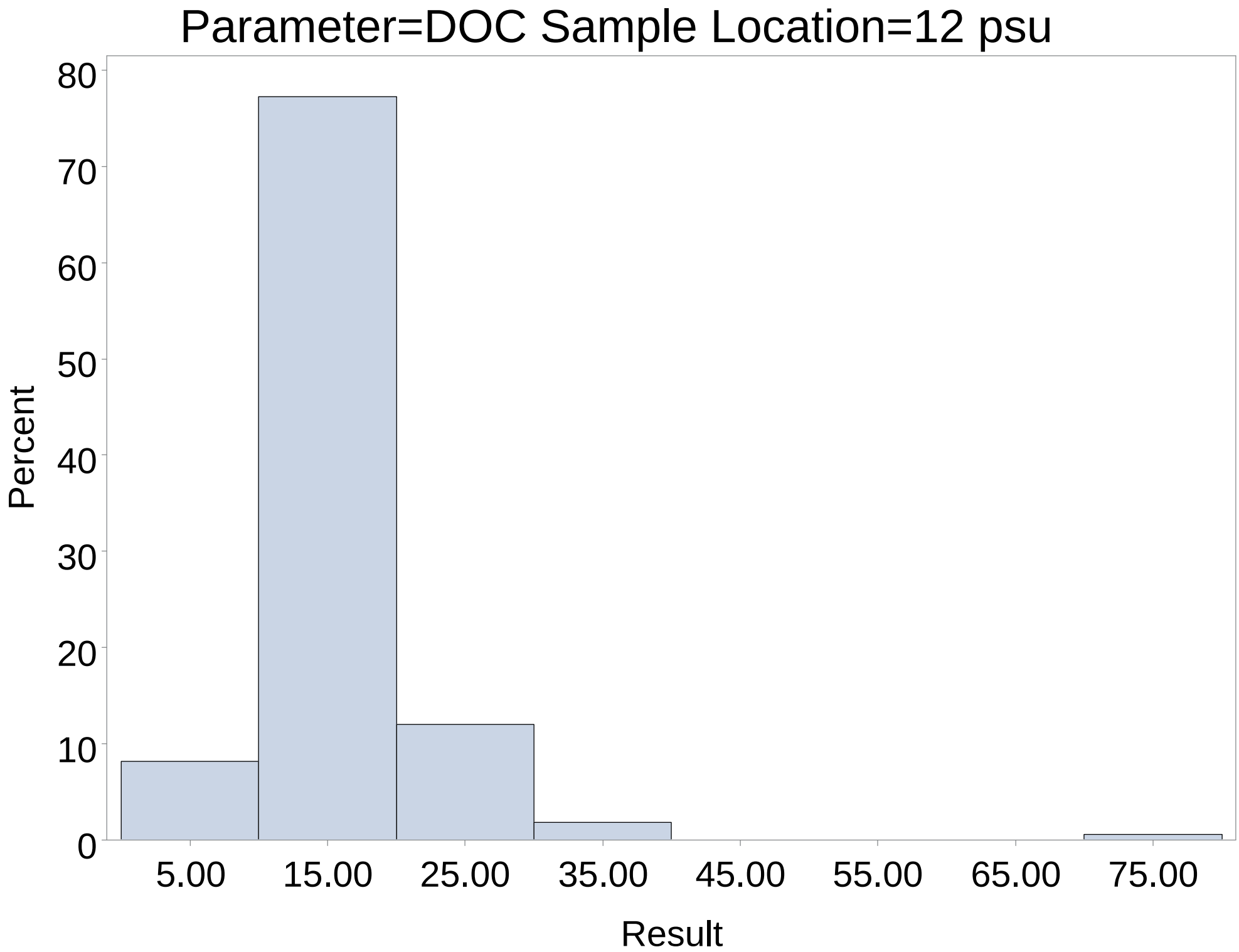
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.94007	**Pr > |t|**	<.0001
Sign	**M**	79	**Pr >= |M|**	<.0001
Signed Rank	**S**	6280.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	79.10
99%	37.80
95%	26.50
90%	21.10
75% Q3	17.60
50% Median	14.34
25% Q1	12.40
10%	10.23
5%	9.40
1%	6.90
0% Min	2.72

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.72	13105	27.3	13099
6.90	13156	30.1	13096
7.92	13211	34.6	13101
8.00	13205	37.8	13161
8.40	13212	79.1	13098


Parameter=DOC Sample Location=12 psu
Percent
80
70
60
50
40
30
20
10
0
5.00
15.00
25.00
35.00
45.00
55.00
65.00
75.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=20 psu

Moments			
N	158	**Sum Weights**	158
Mean	12.8163924	**Sum Observations**	2024.99
Std Deviation	7.72625948	**Variance**	59.6950856
Skewness	6.16156639	**Kurtosis**	55.2803093
Uncorrected SS	35325.1949	**Corrected SS**	9372.12844
Coeff Variation	60.2841989	**Std Error Mean**	0.6146682

Basic Statistical Measures			
Location		**Variability**	
Mean	12.81639	**Std Deviation**	7.72626
Median	11.55000	**Variance**	59.69509
Mode	11.60000	**Range**	87.10000
		Interquartile Range	4.29000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

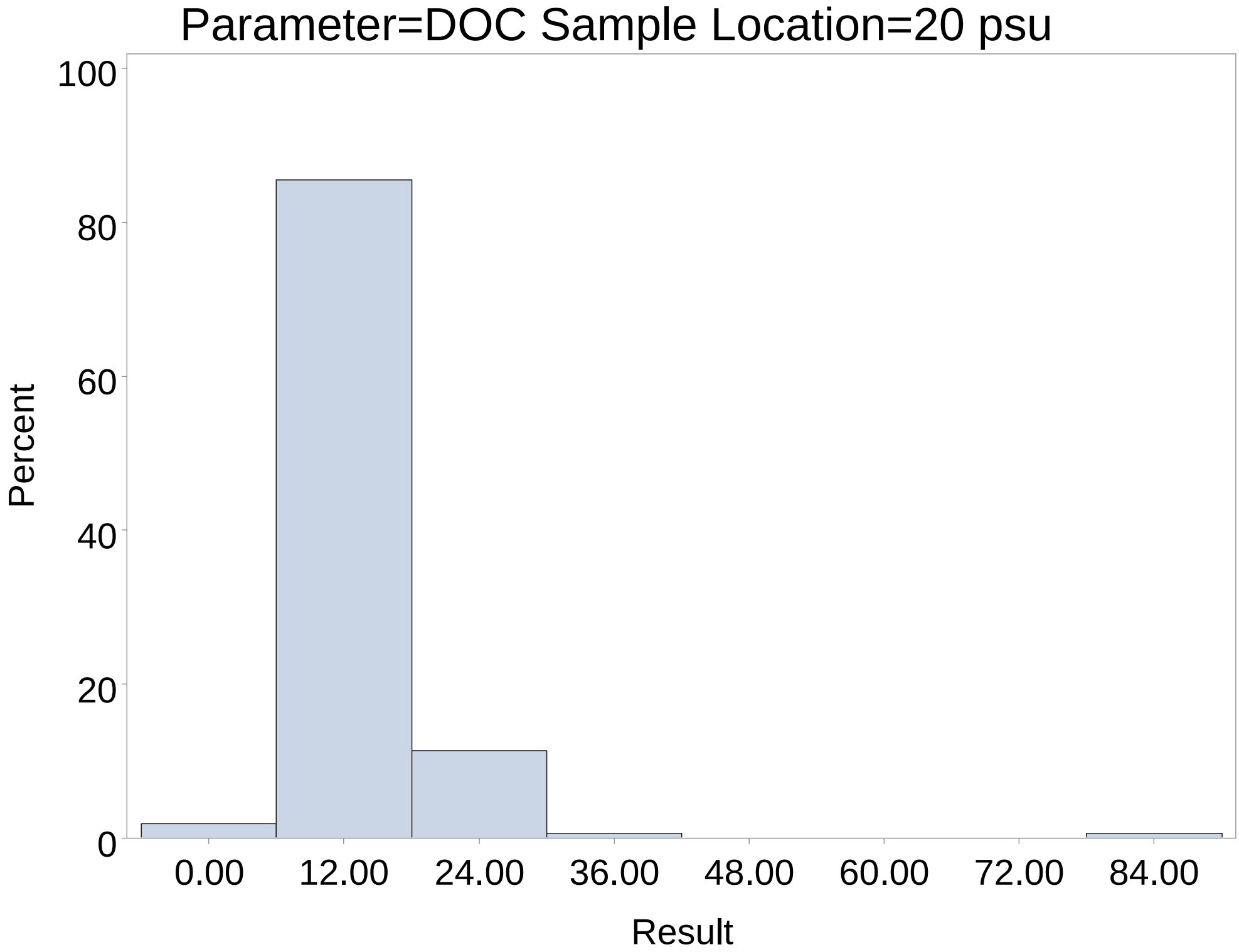
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.85091	**Pr > |t|**	<.0001
Sign	**M**	79	**Pr >= |M|**	<.0001
Signed Rank	**S**	6280.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	87.20
99%	39.80
95%	22.00
90%	19.28
75% Q3	13.80
50% Median	11.55
25% Q1	9.51
10%	7.54
5%	6.74
1%	4.90
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	13263	25.9	13259
4.90	13314	26.0	13252
5.00	13363	29.4	13254
6.38	13264	39.8	13256
6.40	13303	87.2	13258


Parameter=DOC Sample Location=20 psu
Percent
100
80
60
40
20
0
0.00
12.00
24.00
36.00
48.00
60.00
72.00
84.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=Station 18

Moments			
N	38	**Sum Weights**	38
Mean	17.5184211	**Sum Observations**	665.7
Std Deviation	7.27831341	**Variance**	52.9738461
Skewness	1.24567313	**Kurtosis**	0.9625104
Uncorrected SS	13622.0452	**Corrected SS**	1960.03231
Coeff Variation	41.546629	**Std Error Mean**	1.18069834

Basic Statistical Measures			
Location		**Variability**	
Mean	17.51842	**Std Deviation**	7.27831
Median	15.20000	**Variance**	52.97385
Mode	11.30000	**Range**	28.86000
		Interquartile Range	7.80000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

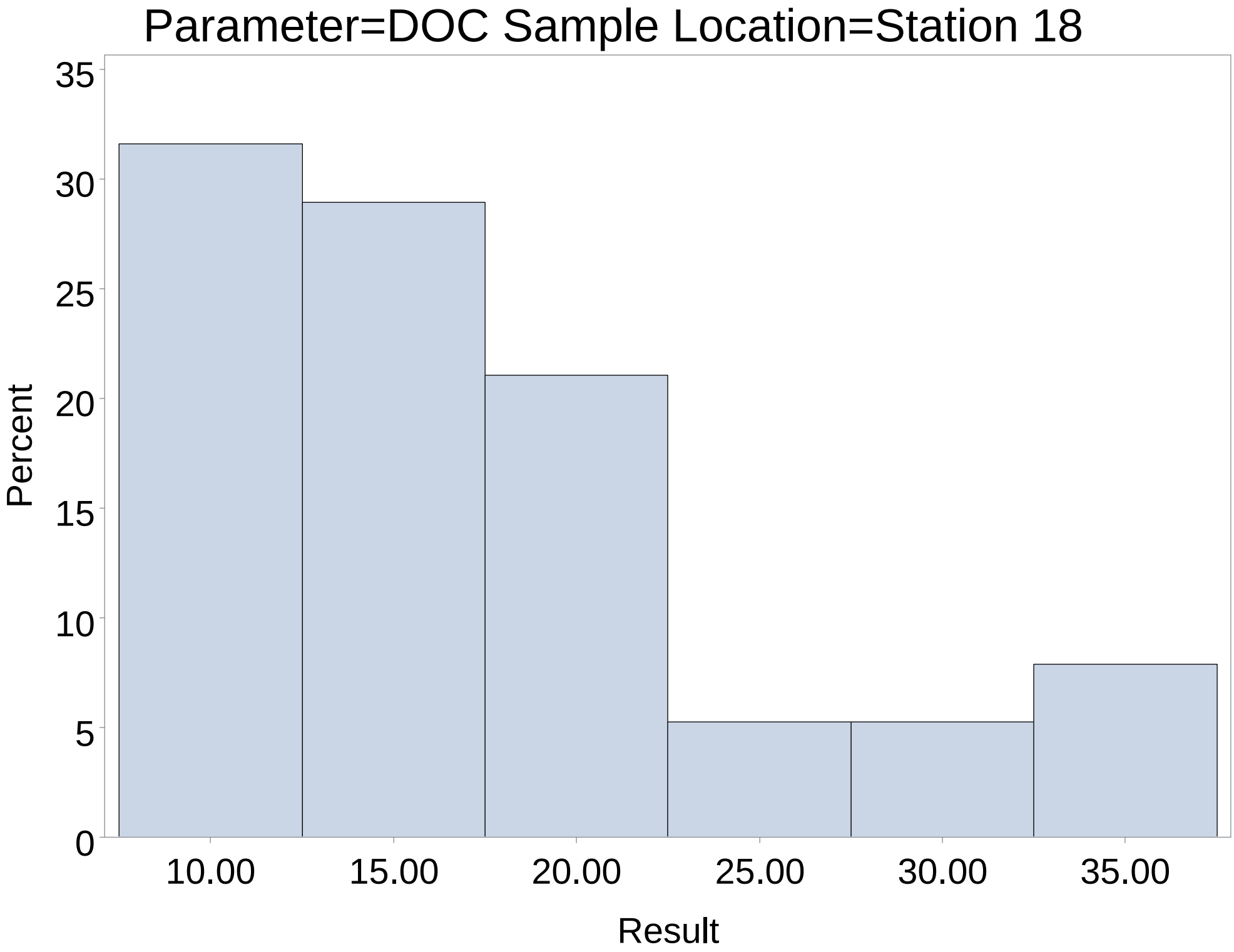
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.83734	**Pr > |t|**	<.0001
Sign	**M**	19	**Pr >= |M|**	<.0001
Signed Rank	**S**	370.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.40
99%	36.40
95%	36.10
90%	29.10
75% Q3	20.00
50% Median	15.20
25% Q1	12.20
10%	11.20
5%	9.06
1%	7.54
0% Min	7.54

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.54	13407	28.6	13425
9.06	13408	29.1	13404
11.10	13419	33.1	13415
11.20	13412	36.1	13416
11.30	13424	36.4	13414


Parameter=DOC Sample Location=Station 18
Percent
35
30
25
20
15
10
5
0
10.00
15.00
20.00
25.00
30.00
35.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=0 psu

Moments			
N	427	**Sum Weights**	427
Mean	6.05274005	**Sum Observations**	2584.52
Std Deviation	2.01502076	**Variance**	4.06030867
Skewness	0.19349027	**Kurtosis**	0.54186111
Uncorrected SS	17373.1192	**Corrected SS**	1729.69149
Coeff Variation	33.2910508	**Std Error Mean**	0.09751369

Basic Statistical Measures			
Location		**Variability**	
Mean	6.052740	**Std Deviation**	2.01502
Median	6.060000	**Variance**	4.06031
Mode	4.600000	**Range**	12.85000
		Interquartile Range	2.58000

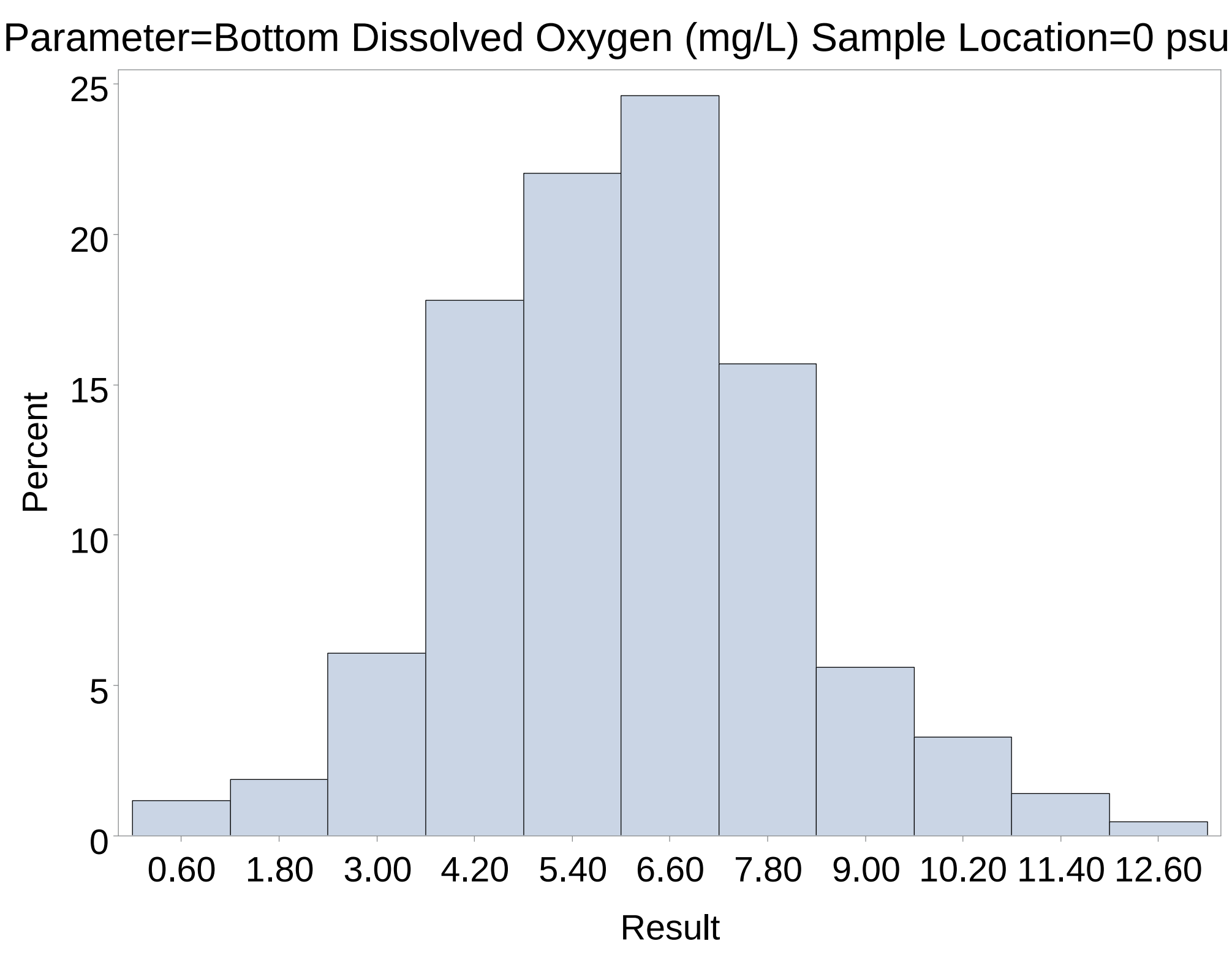
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	62.07067	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.05
99%	11.26
95%	9.60
90%	8.50
75% Q3	7.23
50% Median	6.06
25% Q1	4.65
10%	3.70
5%	3.01
1%	1.10
0% Min	0.20

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	13746	11.26	13702
0.30	13470	11.28	13750
0.62	13830	11.41	13715
0.97	13818	12.48	13705
1.10	13435	13.05	13846


Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=0 psu
Percent
25
20
15
10
5
0
0.60
1.80
3.00
4.20
5.40
6.60
7.80
9.00
10.20
11.40
12.60
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	5.15351981	**Sum Observations**	2210.86
Std Deviation	2.2078019	**Variance**	4.87438922
Skewness	-0.2442727	**Kurtosis**	-0.0565854
Uncorrected SS	13479.9494	**Corrected SS**	2086.23859
Coeff Variation	42.8406599	**Std Error Mean**	0.10659368

Basic Statistical Measures			
Location		**Variability**	
Mean	5.153520	**Std Deviation**	2.20780
Median	5.260000	**Variance**	4.87439
Mode	4.600000	**Range**	12.04000
		Interquartile Range	2.84000

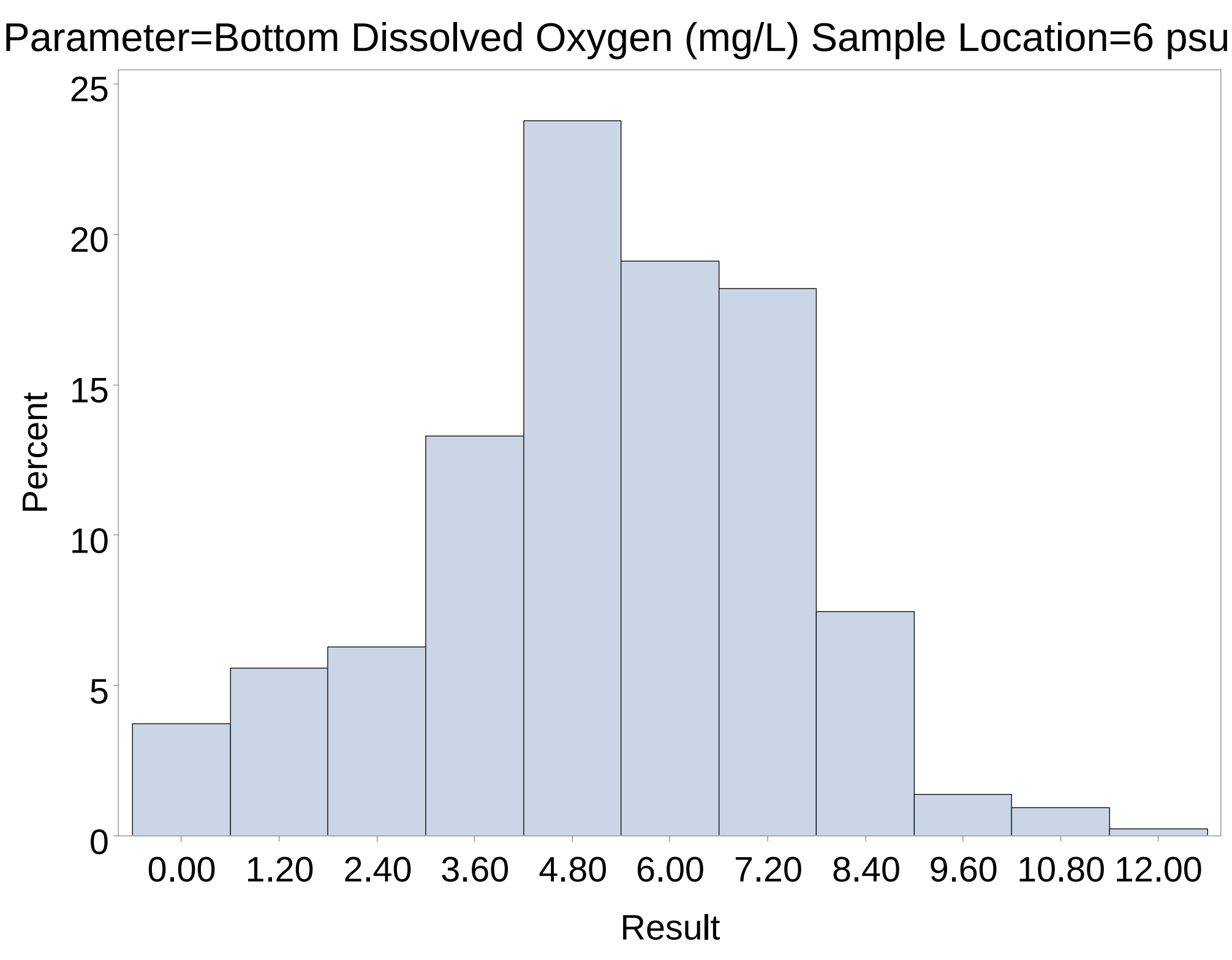
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.34733	**Pr > |t|**	<.0001
Sign	**M**	214.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	46117.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.11
99%	10.49
95%	8.23
90%	7.80
75% Q3	6.77
50% Median	5.26
25% Q1	3.93
10%	1.90
5%	0.95
1%	0.22
0% Min	0.07

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.07	14222	10.49	14275
0.09	13958	10.52	14179
0.13	14139	10.57	14194
0.13	14090	11.39	14132
0.22	14005	12.11	13961


Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=6 psu
Percent
25
20
15
10
5
0
0.00
1.20
2.40
3.60
4.80
6.00
7.20
8.40
9.60
10.80
12.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	5.20728972	**Sum Observations**	2228.72
Std Deviation	2.17338729	**Variance**	4.72361231
Skewness	-0.2759224	**Kurtosis**	-0.0775534
Uncorrected SS	13622.5732	**Corrected SS**	2016.98246
Coeff Variation	41.737399	**Std Error Mean**	0.10505464

Basic Statistical Measures			
Location		**Variability**	
Mean	5.207290	**Std Deviation**	2.17339
Median	5.400000	**Variance**	4.72361
Mode	7.400000	**Range**	11.03000
		Interquartile Range	2.77500

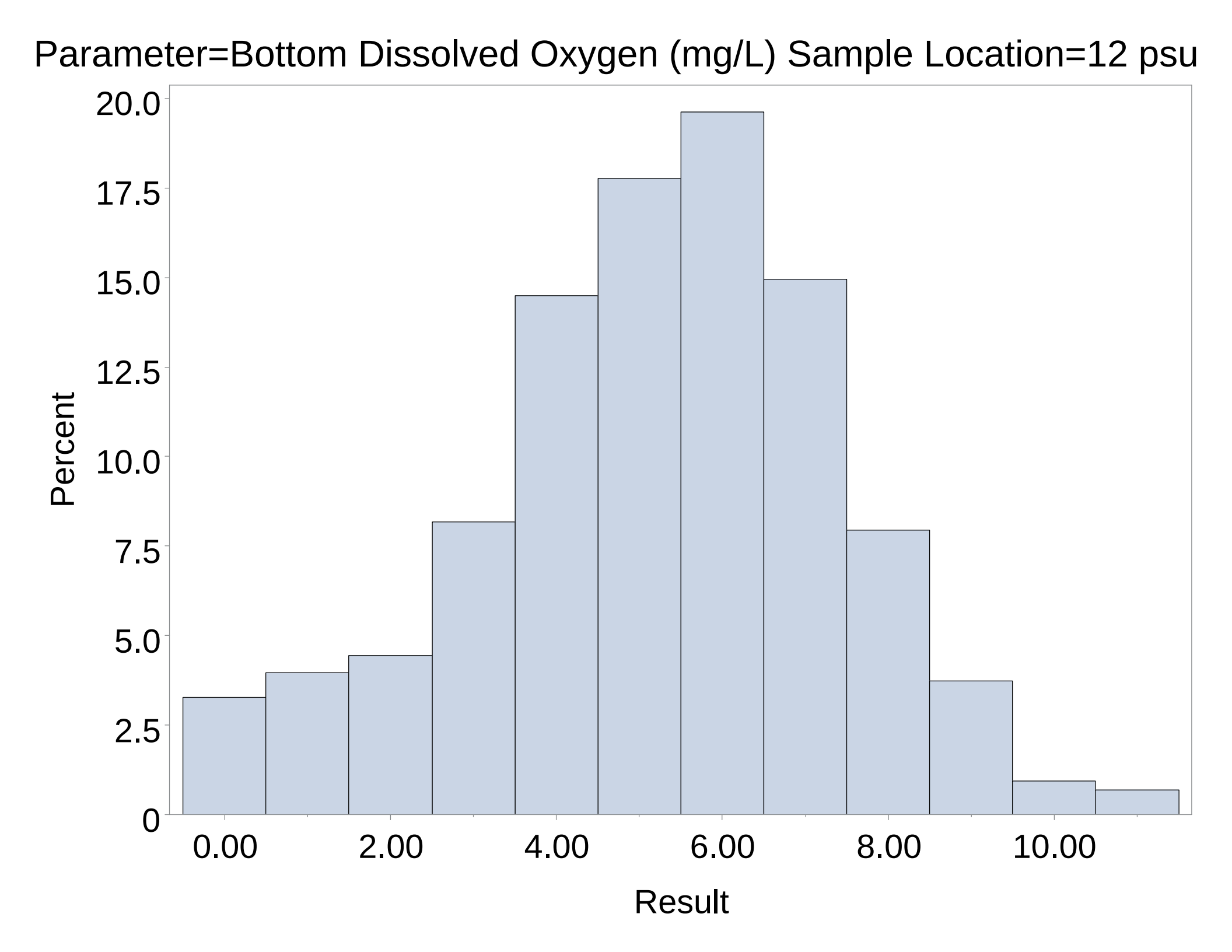
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.56744	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.100
99%	9.830
95%	8.540
90%	7.740
75% Q3	6.685
50% Median	5.400
25% Q1	3.910
10%	2.150
5%	0.970
1%	0.150
0% Min	0.070

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.07	14423	9.83	14703
0.08	14650	10.11	14561
0.12	14554	10.55	14560
0.15	14518	10.82	14389
0.15	14481	11.10	14470


Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=12 psu
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.00
2.00
4.00
6.00
8.00
10.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=20 psu

Moments			
N	428	**Sum Weights**	428
Mean	5.37287383	**Sum Observations**	2299.59
Std Deviation	1.89673698	**Variance**	3.59761116
Skewness	-0.3277653	**Kurtosis**	0.76232449
Uncorrected SS	13891.5869	**Corrected SS**	1536.17997
Coeff Variation	35.3020941	**Std Error Mean**	0.09168224

Basic Statistical Measures			
Location		**Variability**	
Mean	5.372874	**Std Deviation**	1.89674
Median	5.495000	**Variance**	3.59761
Mode	4.000000	**Range**	12.28000
		Interquartile Range	2.27000

Note: The mode displayed is the smallest of 6 modes with a count of 4.

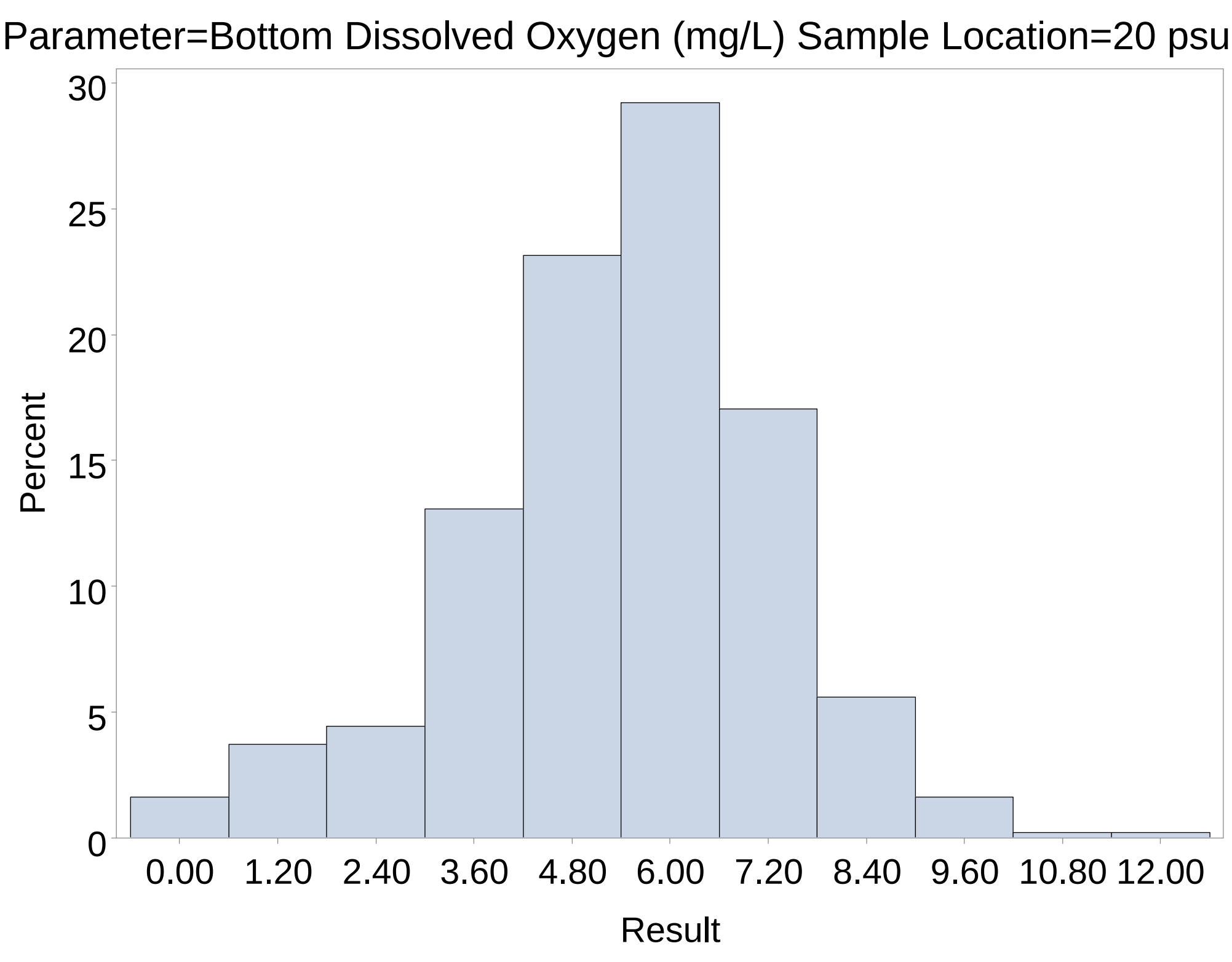
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.60321	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.430
99%	9.700
95%	8.410
90%	7.500
75% Q3	6.575
50% Median	5.495
25% Q1	4.305
10%	3.000
5%	1.470
1%	0.290
0% Min	0.150

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.15	14945	9.70	14898
0.21	14815	9.90	14772
0.23	14970	10.03	14892
0.29	15125	10.50	14893
0.29	15113	12.43	14888


Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=20 psu
Percent
30
25
20
15
10
5
0
0.00
1.20
2.40
3.60
4.80
6.00
7.20
8.40
9.60
10.80
12.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	6.24089686	**Sum Observations**	1391.72
Std Deviation	2.15027572	**Variance**	4.62368568
Skewness	0.22549074	**Kurtosis**	0.28605674
Uncorrected SS	9712.0392	**Corrected SS**	1026.45822
Coeff Variation	34.4545947	**Std Error Mean**	0.14399311

Basic Statistical Measures			
Location		**Variability**	
Mean	6.240897	**Std Deviation**	2.15028
Median	6.340000	**Variance**	4.62369
Mode	4.570000	**Range**	12.26000
		Interquartile Range	2.88000

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**	43.34163	**Pr > |t|**	<.0001
Sign	**M**	111.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12488	**Pr >= |S|**	<.0001

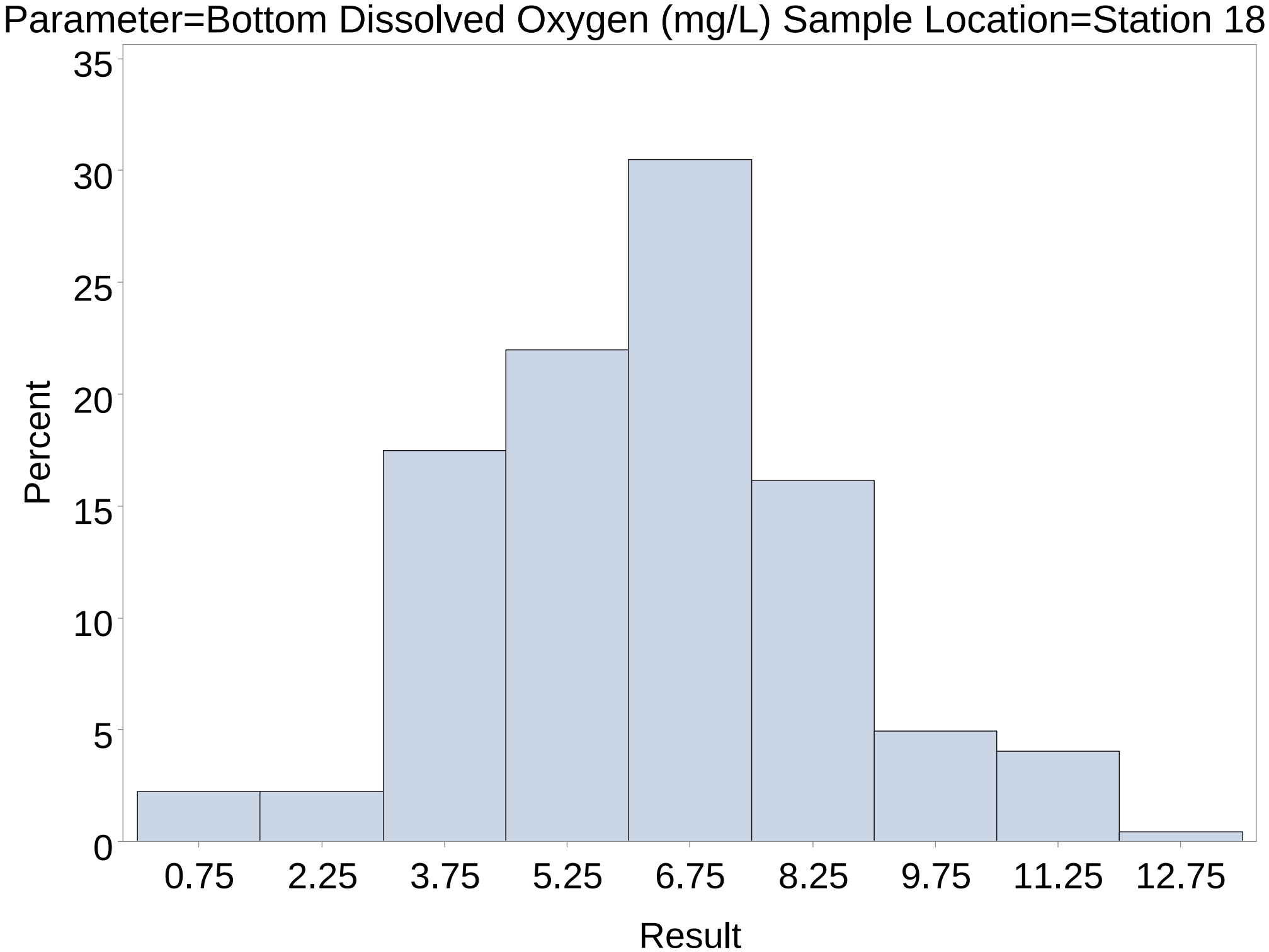
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.84
99%	11.56
95%	9.97
90%	8.93
75% Q3	7.58
50% Median	6.34
25% Q1	4.70
10%	3.72
5%	3.07
1%	0.99
0% Min	0.58

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.58	15255	11.09	15212
0.93	15195	11.09	15259
0.99	15196	11.56	15296
1.14	15351	11.89	15210
1.30	15327	12.84	15213

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.45	100.00


Parameter=Bottom Dissolved Oxygen (mg/L) Sample Location=Station 18
Percent
35
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	6.49852113	**Sum Observations**	2768.37
Std Deviation	1.89633825	**Variance**	3.59609875
Skewness	0.53423878	**Kurtosis**	0.81461979
Uncorrected SS	19518.6529	**Corrected SS**	1528.34197
Coeff Variation	29.1810738	**Std Error Mean**	0.09187789

Basic Statistical Measures			
Location		**Variability**	
Mean	6.498521	**Std Deviation**	1.89634
Median	6.490000	**Variance**	3.59610
Mode	4.200000	**Range**	14.31000
		Interquartile Range	2.47000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

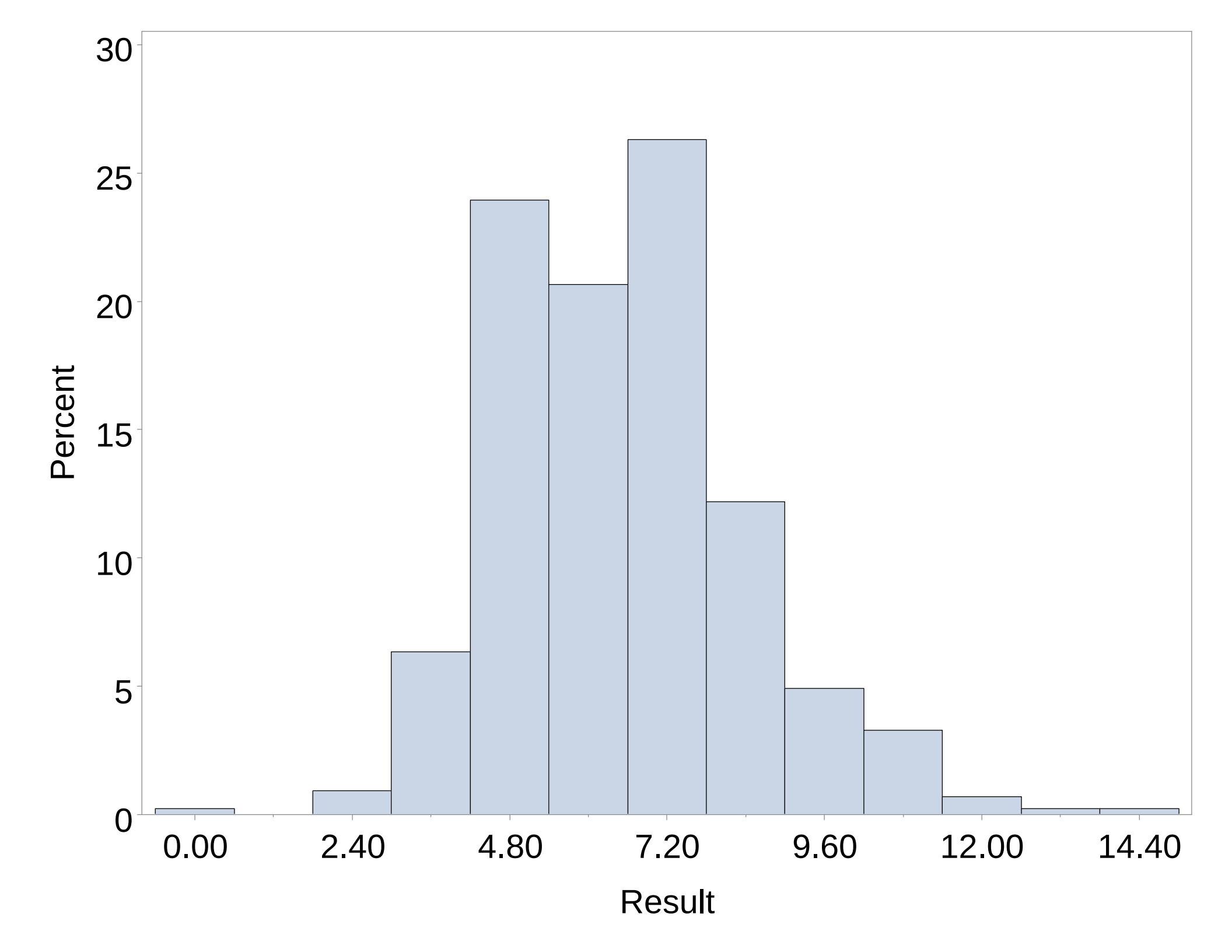
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	70.72998	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.61
99%	11.48
95%	10.04
90%	8.91
75% Q3	7.60
50% Median	6.49
25% Q1	5.13
10%	4.30
5%	3.71
1%	2.93
0% Min	0.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	15406	11.48	15650
2.67	15624	11.52	15638
2.90	15383	11.70	15435
2.91	15777	13.23	15641
2.93	15646	14.61	15781


30
25
20
15
10
5
0
Percent
0.00
2.40
4.80
7.20
9.60
12.00
14.40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	6.78857809	**Sum Observations**	2912.3
Std Deviation	1.75302824	**Variance**	3.07310802
Skewness	0.63822803	**Kurtosis**	0.97100523
Uncorrected SS	21085.6662	**Corrected SS**	1315.29023
Coeff Variation	25.8232021	**Std Error Mean**	0.084637

Basic Statistical Measures			
Location		**Variability**	
Mean	6.788578	**Std Deviation**	1.75303
Median	6.670000	**Variance**	3.07311
Mode	6.000000	**Range**	11.07000
		Interquartile Range	2.24000

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

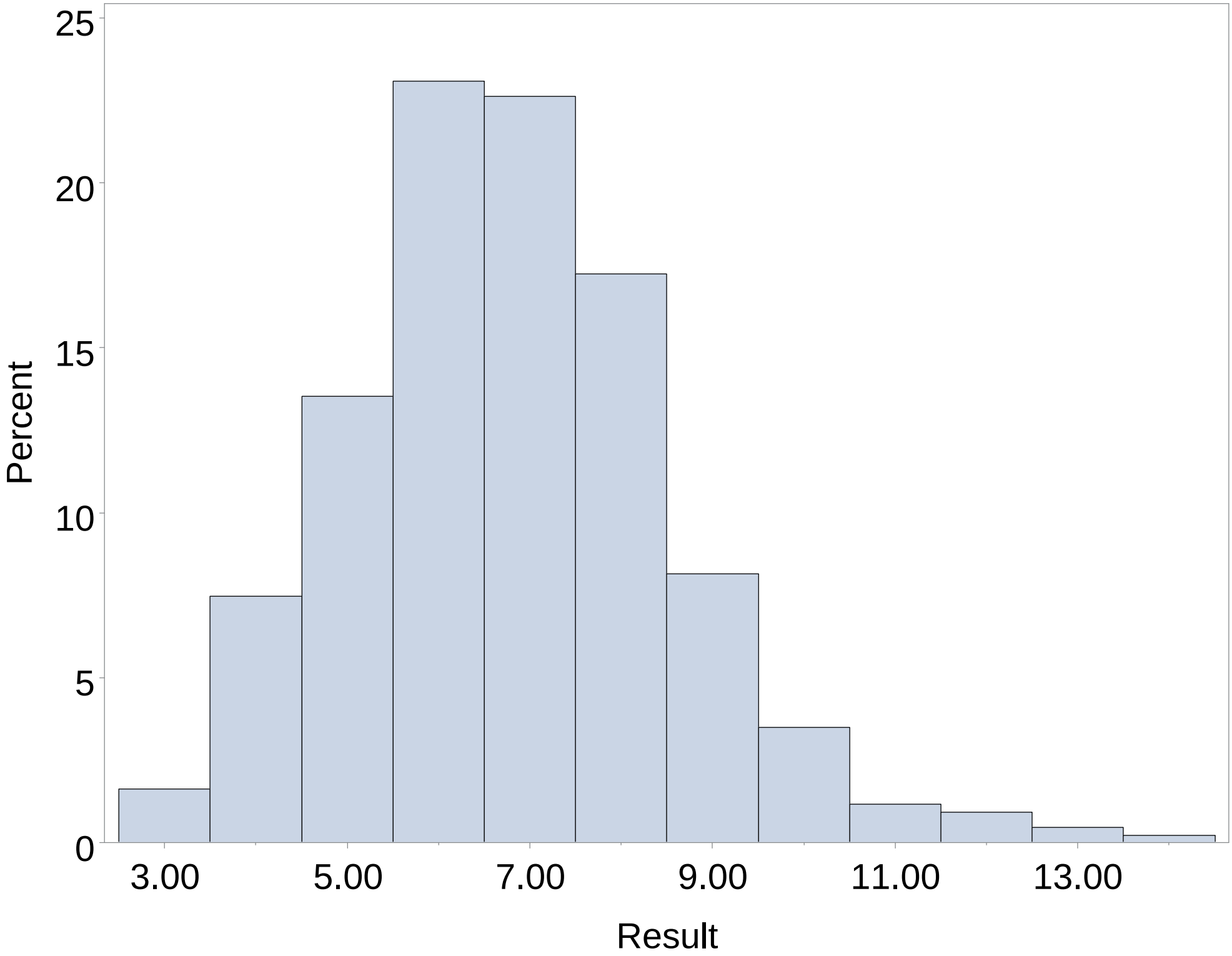
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	80.20816	**Pr > |t|**	<.0001
Sign	**M**	214.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	46117.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.96
99%	12.04
95%	9.88
90%	8.93
75% Q3	7.85
50% Median	6.67
25% Q1	5.61
10%	4.59
5%	4.26
1%	3.46
0% Min	2.89

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.89	16120	12.04	15976
3.27	16051	12.24	15972
3.30	16085	12.97	16210
3.39	16206	13.17	16060
3.46	16000	13.96	15896


25
20
15
10
5
0
Percent
3.00
5.00
7.00
9.00
11.00
13.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	7.18156542	**Sum Observations**	3073.71
Std Deviation	1.85734497	**Variance**	3.44973033
Skewness	1.37517961	**Kurtosis**	4.90608443
Uncorrected SS	23547.0843	**Corrected SS**	1473.03485
Coeff Variation	25.8626756	**Std Error Mean**	0.08977816

Basic Statistical Measures			
Location		**Variability**	
Mean	7.181565	**Std Deviation**	1.85734
Median	6.945000	**Variance**	3.44973
Mode	6.400000	**Range**	15.25000
		Interquartile Range	2.08500

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

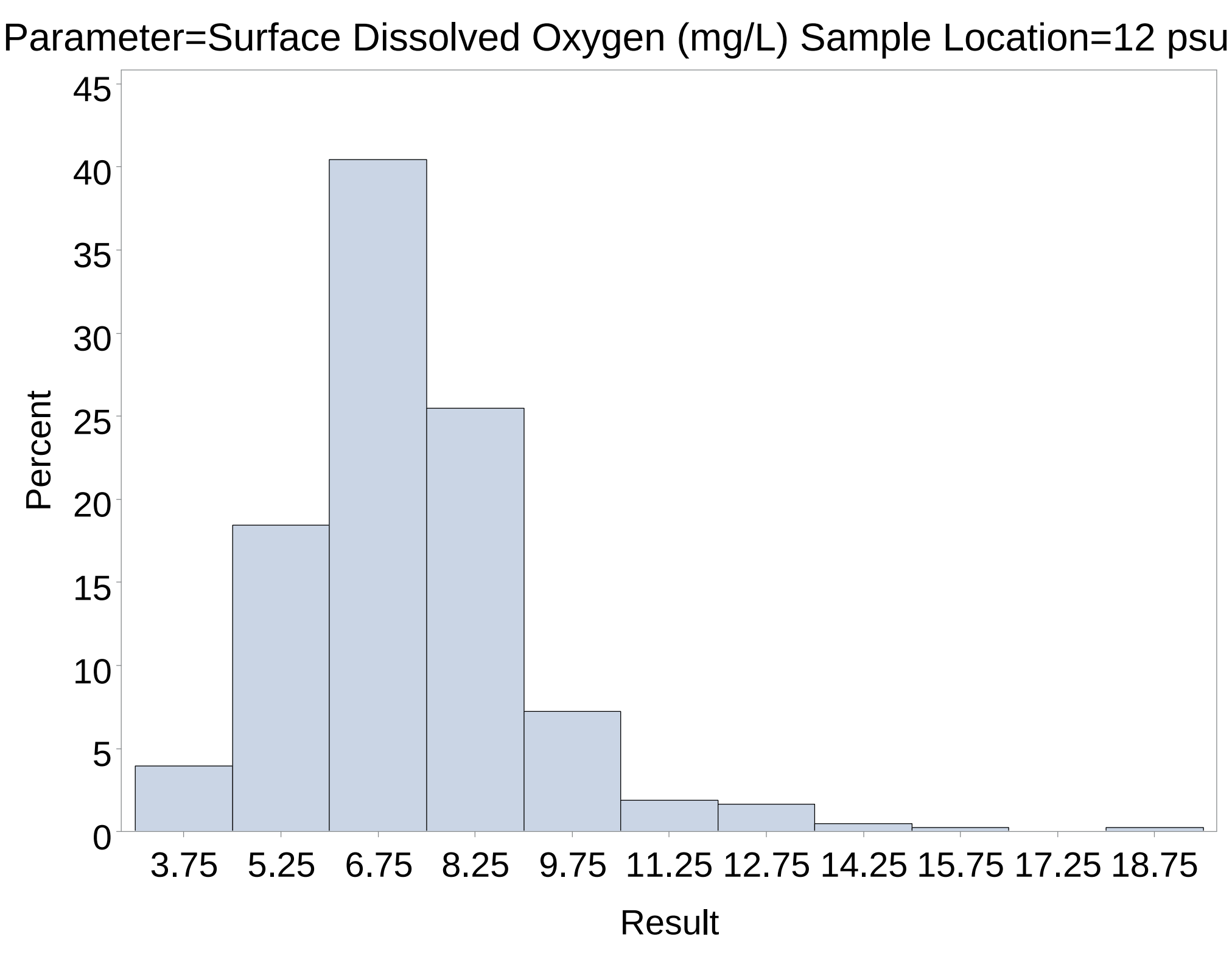
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	79.99235	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.550
99%	13.130
95%	10.220
90%	9.210
75% Q3	8.145
50% Median	6.945
25% Q1	6.060
10%	5.100
5%	4.670
1%	3.620
0% Min	3.300

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.30	16538	13.13	16495
3.35	16311	13.70	16268
3.40	16512	13.87	16488
3.58	16522	15.90	16352
3.62	16439	18.55	16596


Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=12 psu
Percent
45
40
35
30
25
20
15
10
5
0
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
17.25
18.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	6.92318501	**Sum Observations**	2956.2
Std Deviation	1.41880253	**Variance**	2.01300063
Skewness	0.95223434	**Kurtosis**	2.29304865
Uncorrected SS	21323.8578	**Corrected SS**	857.538268
Coeff Variation	20.4934944	**Std Error Mean**	0.06866067

Basic Statistical Measures			
Location		**Variability**	
Mean	6.923185	**Std Deviation**	1.41880
Median	6.740000	**Variance**	2.01300
Mode	6.300000	**Range**	9.76000
		Interquartile Range	1.67000

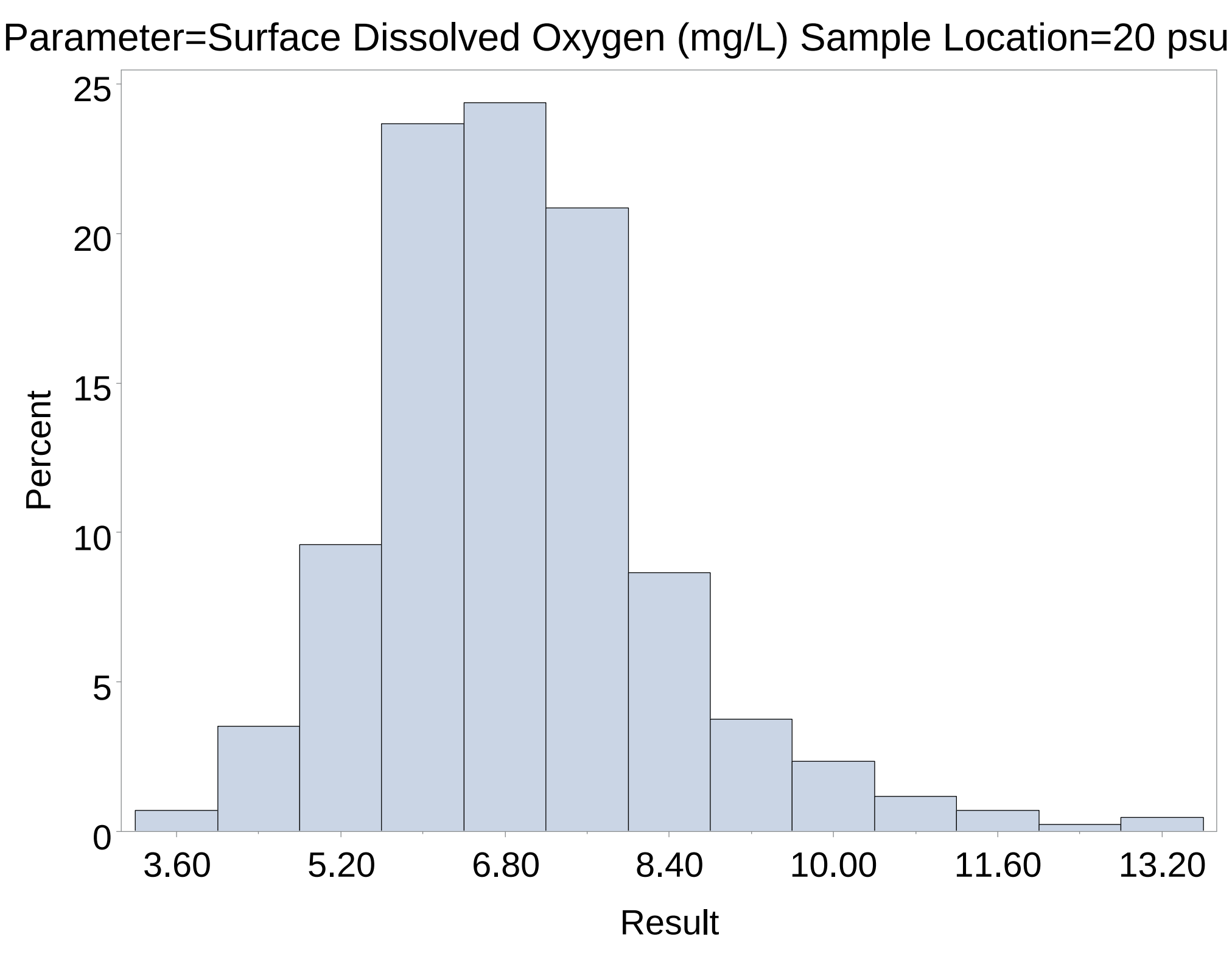
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	100.8319	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.21
99%	11.62
95%	9.42
90%	8.67
75% Q3	7.67
50% Median	6.74
25% Q1	6.00
10%	5.37
5%	4.90
1%	4.13
0% Min	3.45

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.45	17002	11.62	17046
3.58	16966	11.70	16810
3.88	16998	12.64	16827
4.09	16975	13.00	16831
4.13	16764	13.21	16922


Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=20 psu
25
20
15
10
5
0
Percent
3.60
5.20
6.80
8.40
10.00
11.60
13.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	6.67147982	**Sum Observations**	1487.74
Std Deviation	2.17237344	**Variance**	4.71920636
Skewness	0.6311975	**Kurtosis**	1.57795251
Uncorrected SS	10973.0912	**Corrected SS**	1047.66381
Coeff Variation	32.5620926	**Std Error Mean**	0.14547289

Basic Statistical Measures			
Location		**Variability**	
Mean	6.671480	**Std Deviation**	2.17237
Median	6.630000	**Variance**	4.71921
Mode	4.510000	**Range**	14.44000
		Interquartile Range	2.72000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

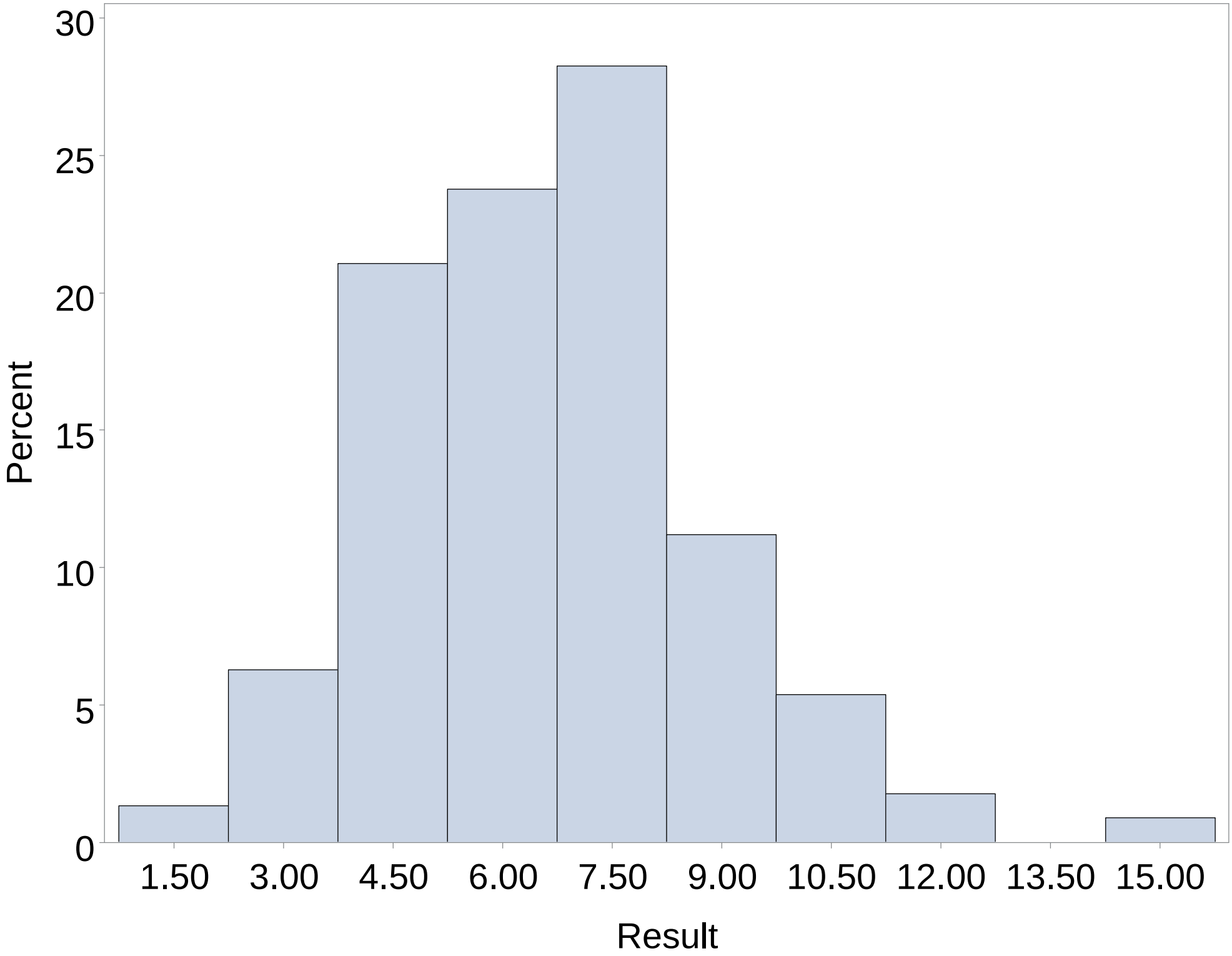
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.86064	**Pr > |t|**	<.0001
Sign	**M**	111.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12488	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.59
99%	12.72
95%	10.38
90%	9.28
75% Q3	7.85
50% Median	6.63
25% Q1	5.13
10%	4.15
5%	3.65
1%	1.82
0% Min	1.15

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.15	17129	11.40	17158
1.40	17285	12.03	17146
1.82	17130	12.72	17144
2.42	17153	14.81	17231
2.72	17294	15.59	17147


30
25
20
15
10
5
0
Percent
1.50
3.00
4.50
6.00
7.50
9.00
10.50
12.00
13.50
15.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=0 psu

Moments			
N	421	**Sum Weights**	421
Mean	2.66817102	**Sum Observations**	1123.3
Std Deviation	1.16549529	**Variance**	1.35837927
Skewness	0.51851029	**Kurtosis**	-0.3653805
Uncorrected SS	3567.6758	**Corrected SS**	570.519292
Coeff Variation	43.6814312	**Std Error Mean**	0.05680276

Basic Statistical Measures			
Location		**Variability**	
Mean	2.668171	**Std Deviation**	1.16550
Median	2.520000	**Variance**	1.35838
Mode	1.200000	**Range**	5.92000
		Interquartile Range	1.79000

Note: The mode displayed is the smallest of 2 modes with a count of 14.

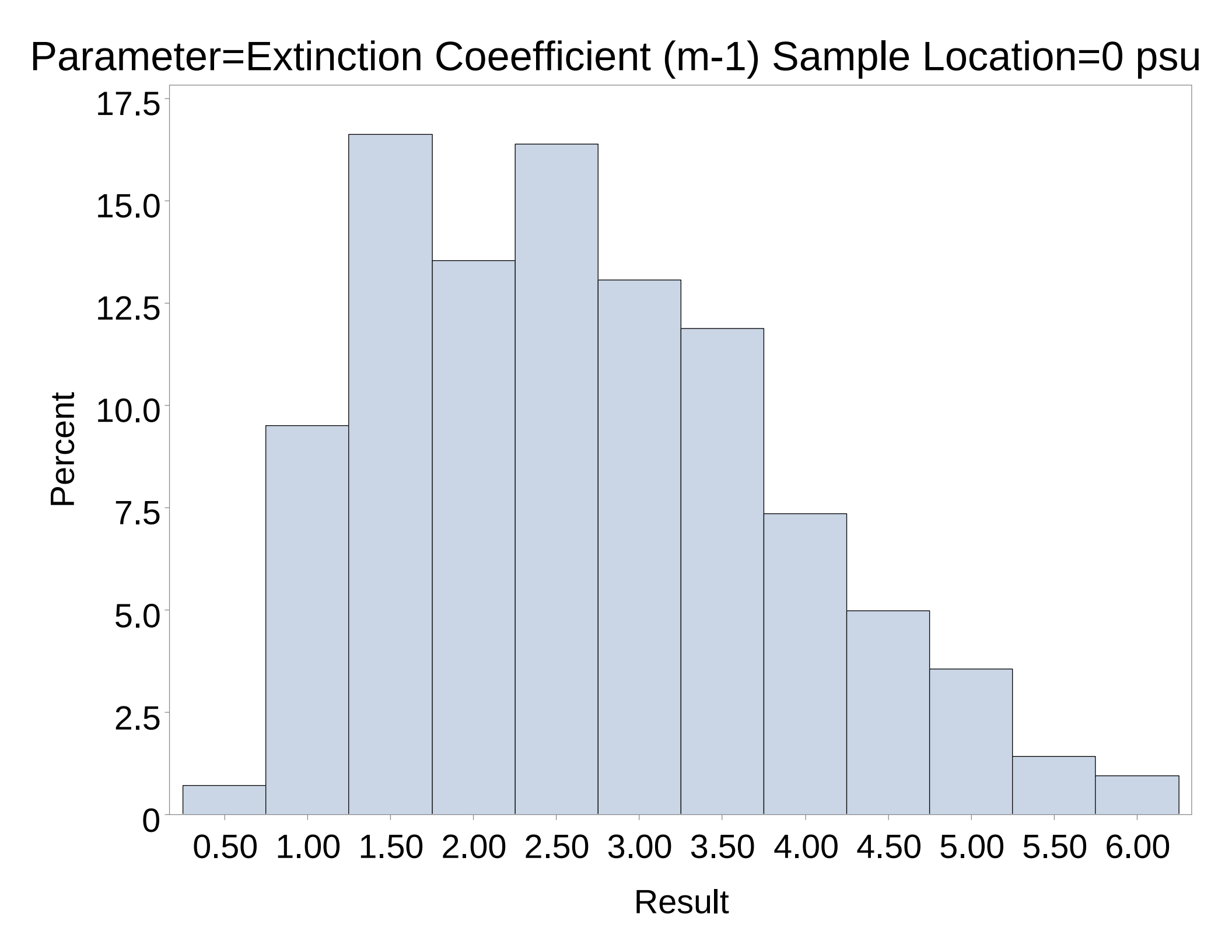
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	46.97256	**Pr > |t|**	<.0001
Sign	**M**	210.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44415.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.22
99%	5.45
95%	4.80
90%	4.36
75% Q3	3.49
50% Median	2.52
25% Q1	1.70
10%	1.23
5%	1.10
1%	0.80
0% Min	0.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	17652	5.45	17494
0.4	17600	5.77	17471
0.7	17505	5.81	17363
0.8	17517	5.82	17435
0.8	17516	6.22	17434


Parameter=Extinction Coeefficient (m-1) Sample Location=0 psu
Percent
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=6 psu

Moments			
N	423	**Sum Weights**	423
Mean	2.42992908	**Sum Observations**	1027.86
Std Deviation	0.85628856	**Variance**	0.73323009
Skewness	0.65899317	**Kurtosis**	0.58041935
Uncorrected SS	2807.05	**Corrected SS**	309.423098
Coeff Variation	35.2392406	**Std Error Mean**	0.04163417

Basic Statistical Measures			
Location		**Variability**	
Mean	2.429929	**Std Deviation**	0.85629
Median	2.300000	**Variance**	0.73323
Mode	1.800000	**Range**	5.48000
		Interquartile Range	1.18000

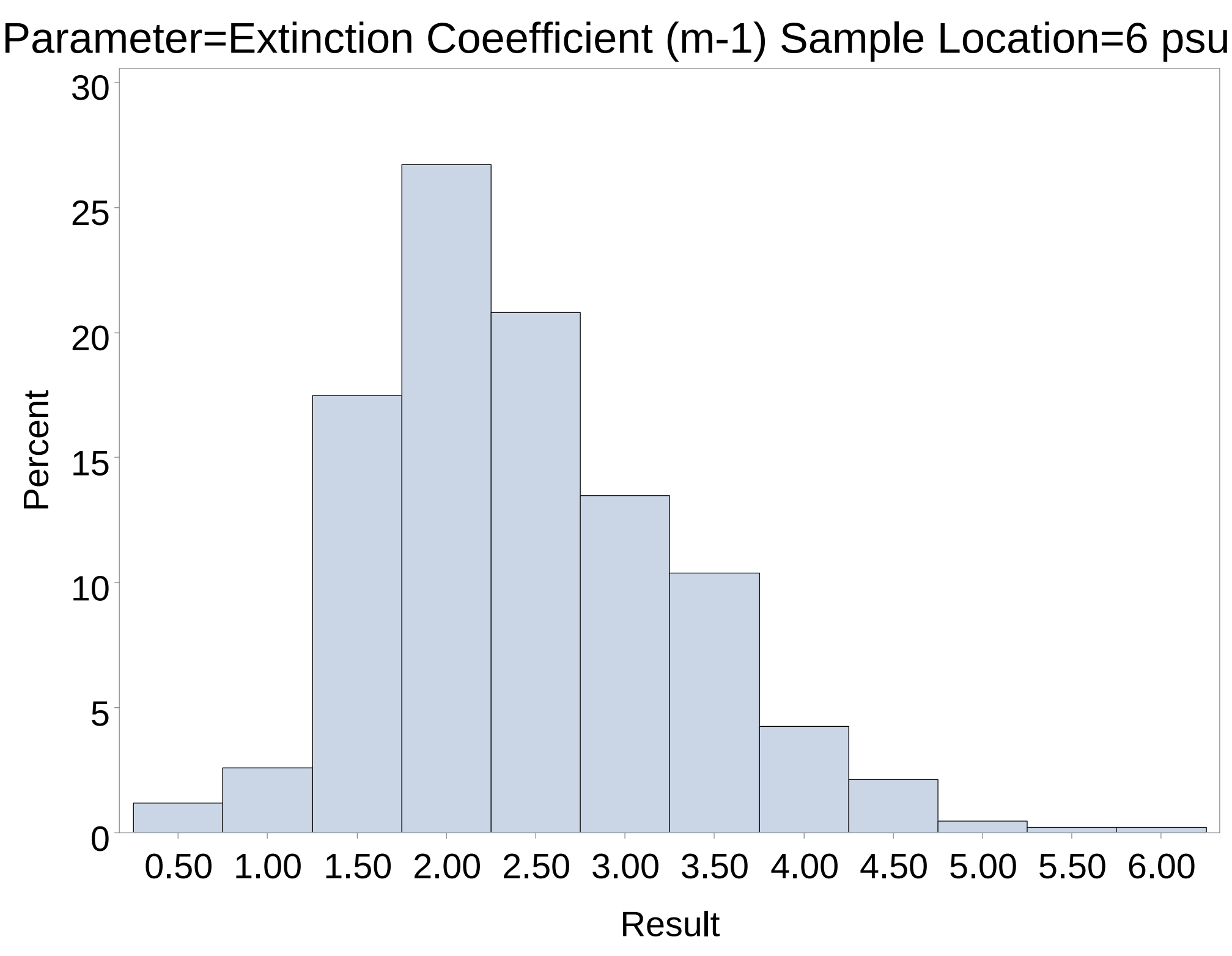
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.36381	**Pr > |t|**	<.0001
Sign	**M**	211.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44838	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.88
99%	4.73
95%	3.93
90%	3.63
75% Q3	2.98
50% Median	2.30
25% Q1	1.80
10%	1.50
5%	1.30
1%	0.70
0% Min	0.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	18022	4.73	17810
0.4	18021	5.00	17915
0.5	18005	5.16	17892
0.5	17930	5.30	17975
0.7	18006	5.88	17855


Parameter=Extinction Coeefficient (m-1) Sample Location=6 psu
30
25
20
15
10
5
0
Percent
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=12 psu

Moments			
N	424	**Sum Weights**	424
Mean	2.02240566	**Sum Observations**	857.5
Std Deviation	0.69256324	**Variance**	0.47964384
Skewness	1.34345841	**Kurtosis**	4.3951401
Uncorrected SS	1937.1022	**Corrected SS**	202.889346
Coeff Variation	34.2445265	**Std Error Mean**	0.03363384

Basic Statistical Measures			
Location		**Variability**	
Mean	2.022406	**Std Deviation**	0.69256
Median	1.900000	**Variance**	0.47964
Mode	1.700000	**Range**	5.68000
		Interquartile Range	0.79000

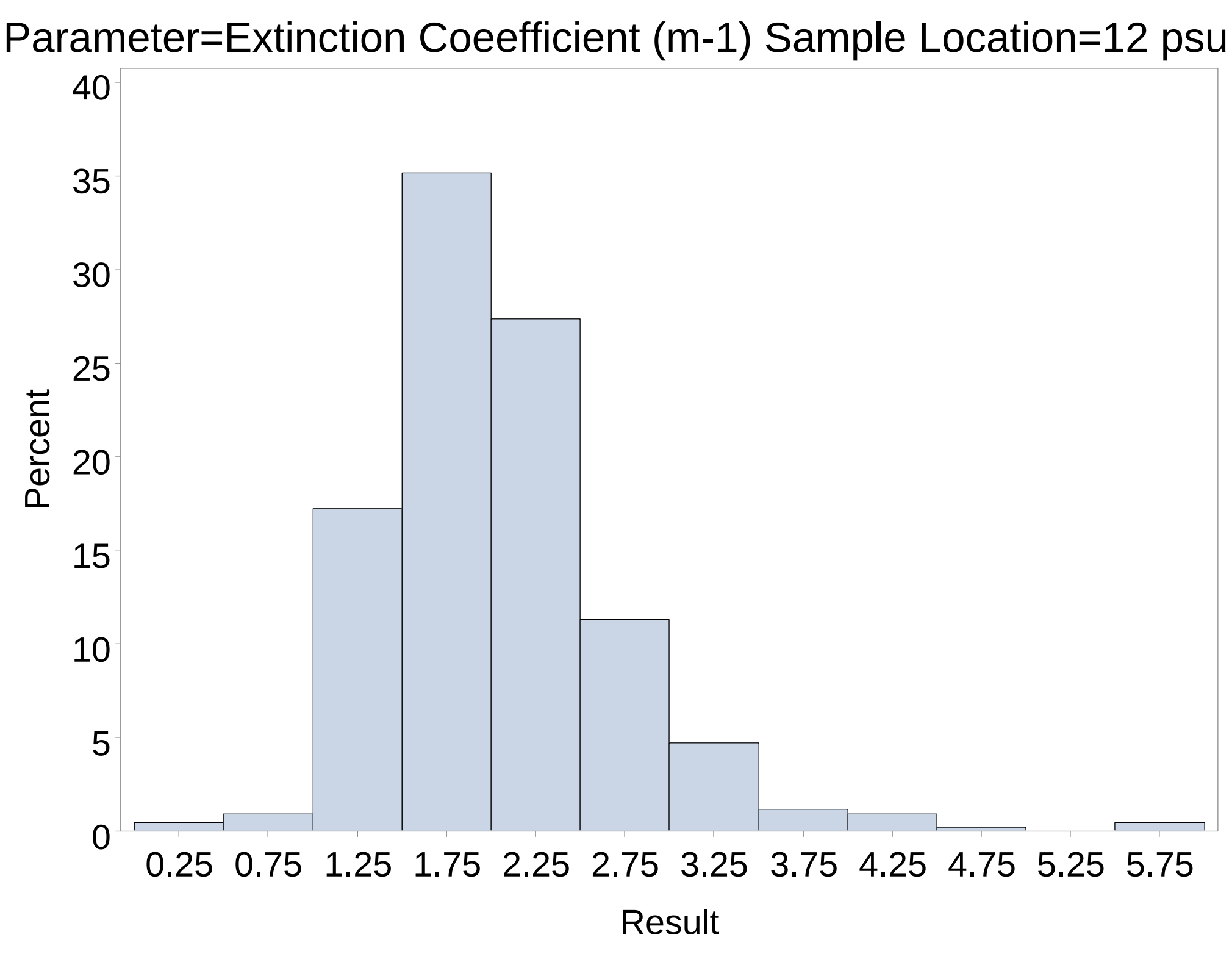
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	60.13008	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.780
99%	4.300
95%	3.200
90%	2.860
75% Q3	2.365
50% Median	1.900
25% Q1	1.575
10%	1.300
5%	1.100
1%	0.800
0% Min	0.100

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.1	18445	4.30	18342
0.4	18495	4.40	18283
0.5	18501	4.78	18268
0.6	18353	5.75	18279
0.8	18345	5.78	18278


Parameter=Extinction Coeefficient (m-1) Sample Location=12 psu
Percent
40
35
30
25
20
15
10
5
0
0.25
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
5.25
5.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=20 psu

Moments			
N	424	**Sum Weights**	424
Mean	1.55224057	**Sum Observations**	658.15
Std Deviation	0.44175122	**Variance**	0.19514414
Skewness	0.84842978	**Kurtosis**	0.71861517
Uncorrected SS	1104.1531	**Corrected SS**	82.5459715
Coeff Variation	28.4589406	**Std Error Mean**	0.02145334

Basic Statistical Measures			
Location		**Variability**	
Mean	1.552241	**Std Deviation**	0.44175
Median	1.430000	**Variance**	0.19514
Mode	1.400000	**Range**	3.00000
		Interquartile Range	0.57000

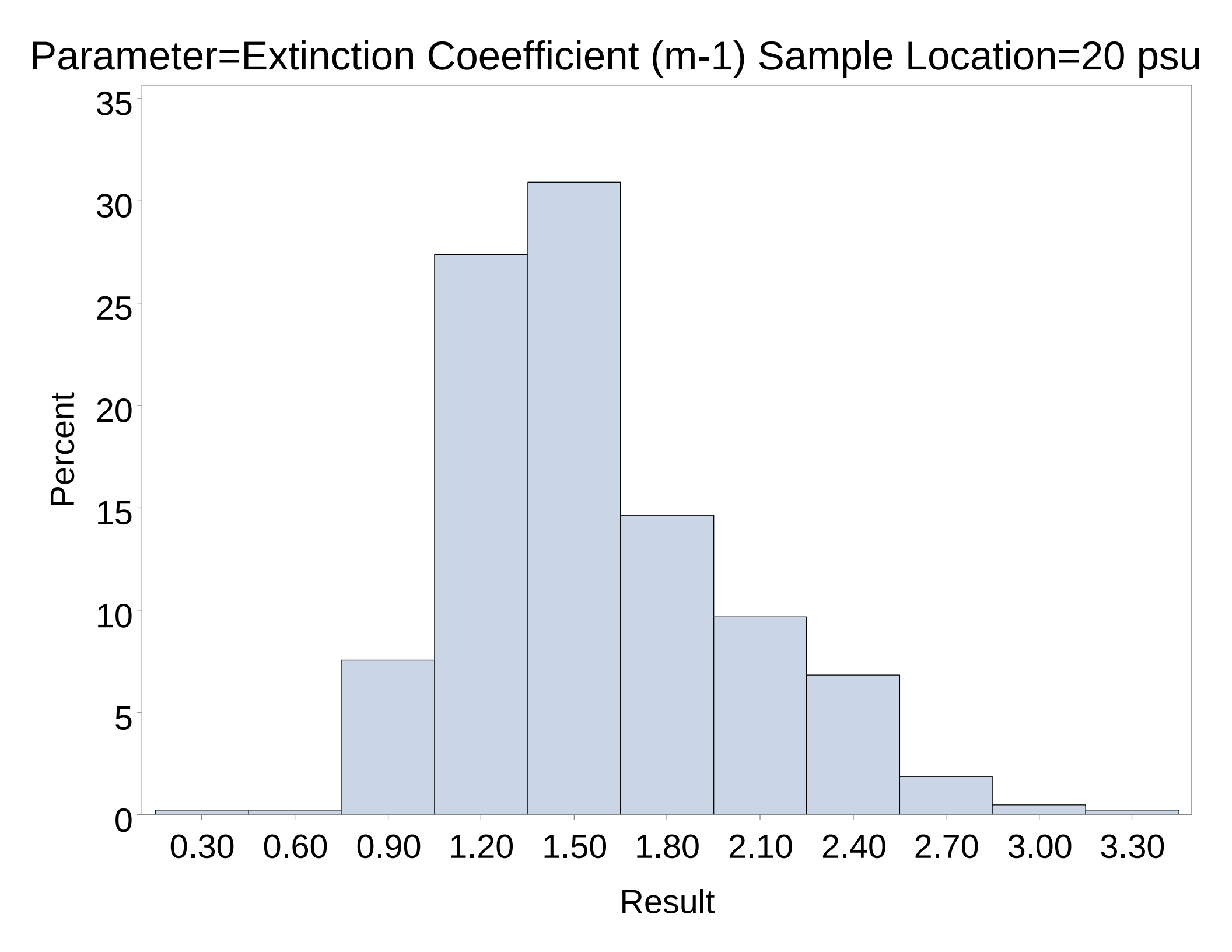
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	72.35428	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.30
99%	2.80
95%	2.40
90%	2.20
75% Q3	1.80
50% Median	1.43
25% Q1	1.23
10%	1.10
5%	1.00
1%	0.80
0% Min	0.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	18777	2.80	18588
0.70	18869	2.80	18801
0.77	18750	2.92	18742
0.78	18619	3.08	18658
0.80	18831	3.30	18797


Parameter=Extinction Coeefficient (m-1) Sample Location=20 psu
Percent
35
30
25
20
15
10
5
0
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=Station 18

Moments			
N	211	**Sum Weights**	211
Mean	2.33682464	**Sum Observations**	493.07
Std Deviation	0.90270855	**Variance**	0.81488273
Skewness	0.32755318	**Kurtosis**	-0.5555064
Uncorrected SS	1323.3435	**Corrected SS**	171.125373
Coeff Variation	38.6297086	**Std Error Mean**	0.06214502

Basic Statistical Measures			
Location		**Variability**	
Mean	2.336825	**Std Deviation**	0.90271
Median	2.300000	**Variance**	0.81488
Mode	1.500000	**Range**	4.54000
		Interquartile Range	1.40000

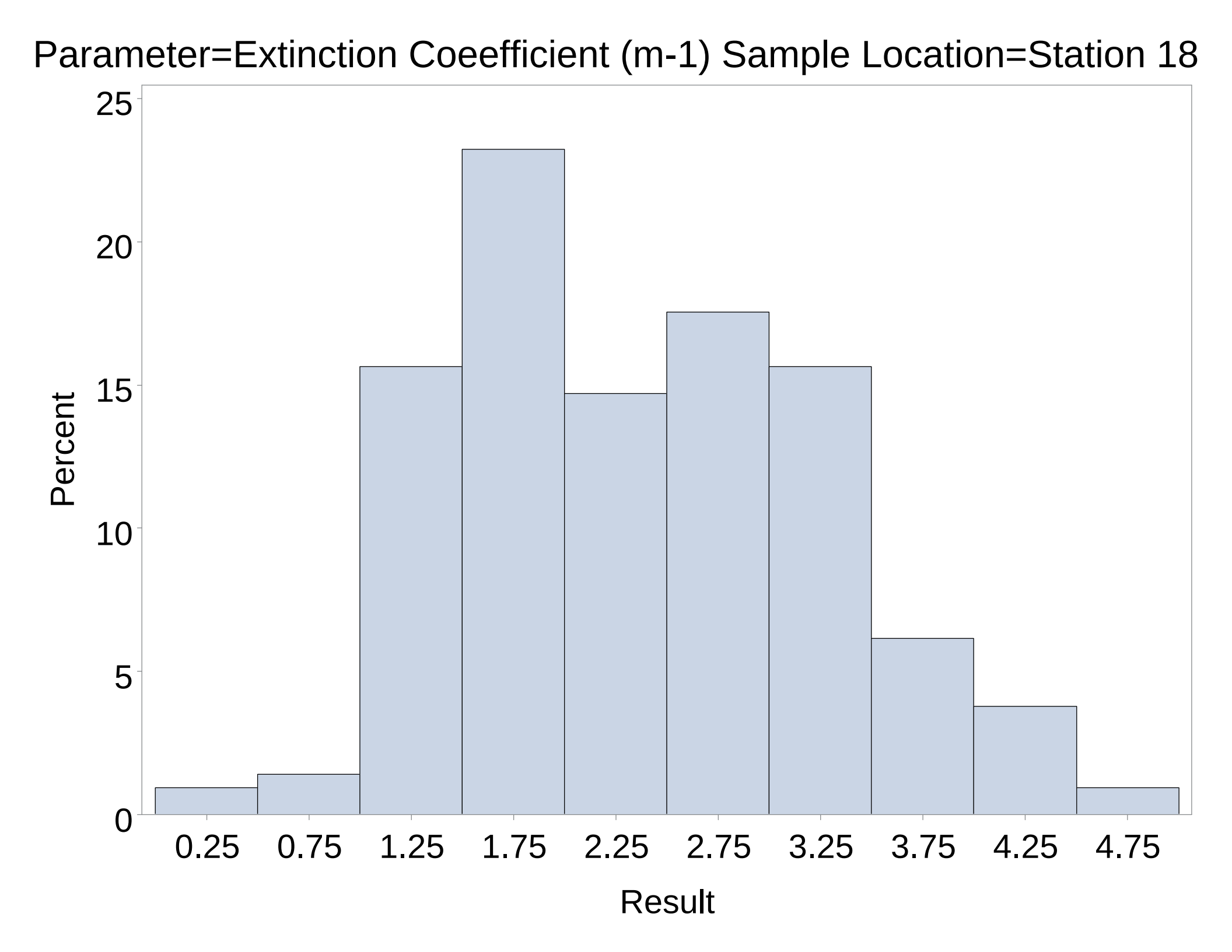
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.60277	**Pr > |t|**	<.0001
Sign	**M**	105.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11183	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.84
99%	4.40
95%	3.90
90%	3.50
75% Q3	3.00
50% Median	2.30
25% Q1	1.60
10%	1.30
5%	1.10
1%	0.50
0% Min	0.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	19083	4.30	19141
0.4	19002	4.32	19175
0.5	19082	4.40	19142
0.9	19149	4.50	19060
0.9	18994	4.84	19189


Parameter=Extinction Coeefficient (m-1) Sample Location=Station 18
Percent
25
20
15
10
5
0
0.25
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=0 psu

Moments			
N	347	**Sum Weights**	347
Mean	0.34001931	**Sum Observations**	117.9867
Std Deviation	0.21069639	**Variance**	0.04439297
Skewness	0.78410733	**Kurtosis**	0.09494257
Uncorrected SS	55.4777239	**Corrected SS**	15.3599678
Coeff Variation	61.9660086	**Std Error Mean**	0.01131078

Basic Statistical Measures			
Location		**Variability**	
Mean	0.340019	**Std Deviation**	0.21070
Median	0.300000	**Variance**	0.04439
Mode	0.320000	**Range**	1.05900
		Interquartile Range	0.31600

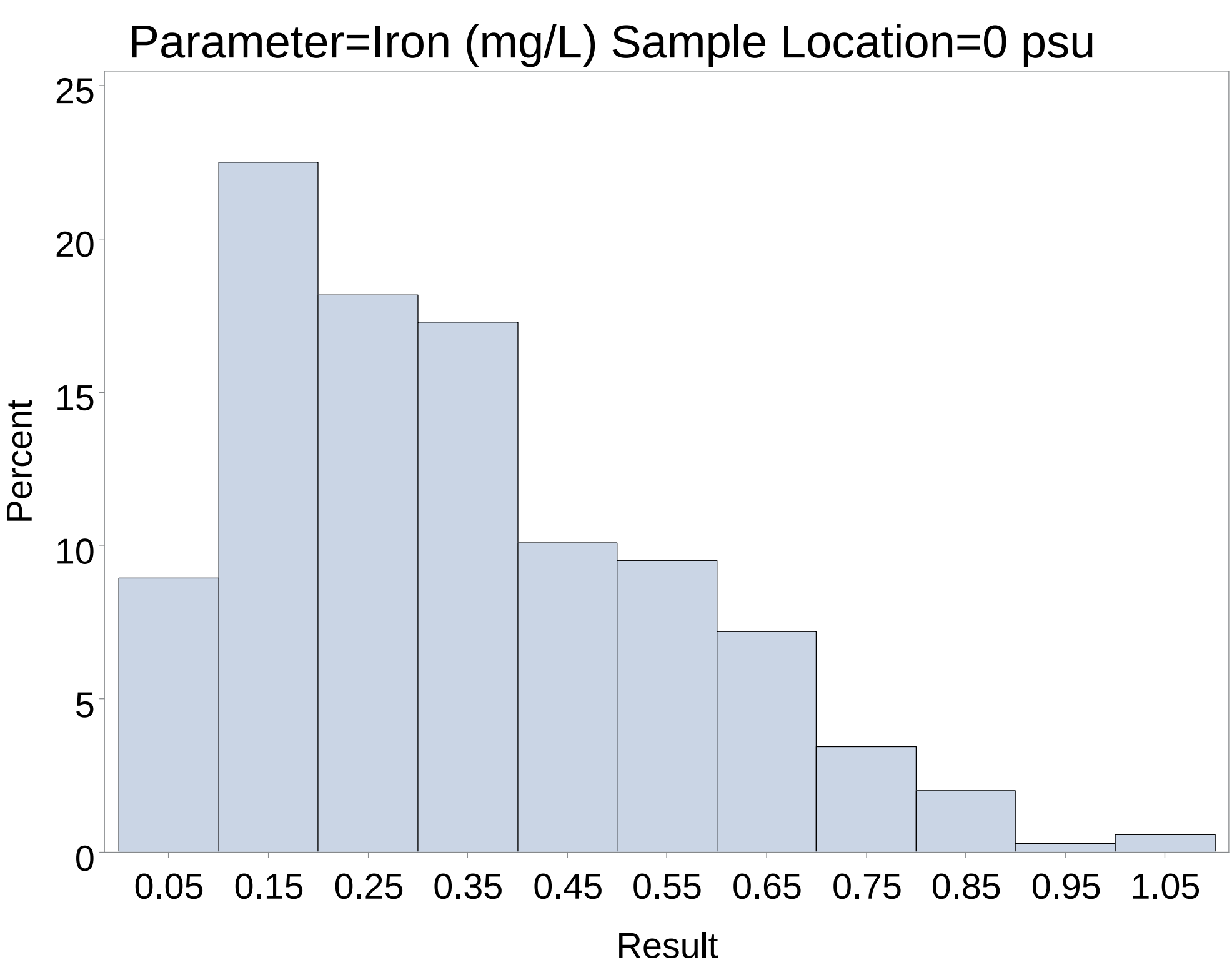
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.06154	**Pr > |t|**	<.0001
Sign	**M**	173.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	30189	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.069
99%	0.889
95%	0.715
90%	0.648
75% Q3	0.486
50% Median	0.300
25% Q1	0.170
10%	0.100
5%	0.071
1%	0.040
0% Min	0.010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	19291	0.889	19380
0.03	19359	0.889	19405
0.04	19342	0.910	19235
0.04	19341	1.010	19231
0.04	19288	1.069	19404


Parameter=Iron (mg/L) Sample Location=0 psu
25
20
15
10
5
0
Percent
0.05
0.15
0.25
0.35
0.45
0.55
0.65
0.75
0.85
0.95
1.05
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=6 psu

Moments			
N	348	**Sum Weights**	348
Mean	0.26403333	**Sum Observations**	91.8836
Std Deviation	0.16093638	**Variance**	0.02590052
Skewness	2.14295535	**Kurtosis**	10.4387609
Uncorrected SS	33.2478132	**Corrected SS**	8.98747999
Coeff Variation	60.9530543	**Std Error Mean**	0.0086271

Basic Statistical Measures			
Location		**Variability**	
Mean	0.264033	**Std Deviation**	0.16094
Median	0.230000	**Variance**	0.02590
Mode	0.090000	**Range**	1.47500
		Interquartile Range	0.19850

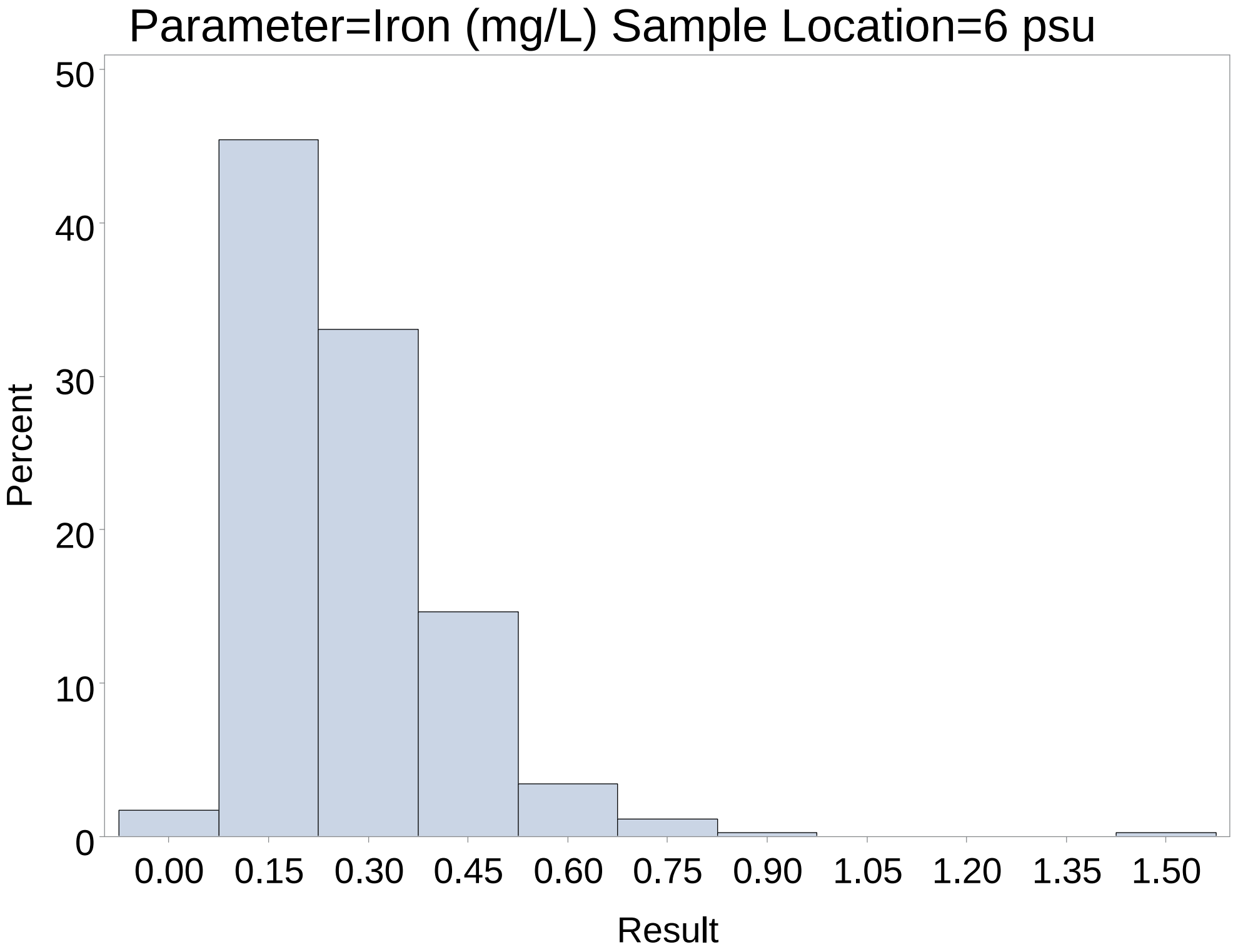
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.60512	**Pr > |t|**	<.0001
Sign	**M**	174	**Pr >= |M|**	<.0001
Signed Rank	**S**	30363	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.5050
99%	0.7400
95%	0.5390
90%	0.4530
75% Q3	0.3425
50% Median	0.2300
25% Q1	0.1440
10%	0.1050
5%	0.0900
1%	0.0700
0% Min	0.0300

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.03	19706	0.722	19777
0.05	19605	0.740	19882
0.06	19707	0.778	19795
0.07	19588	0.920	19853
0.07	19565	1.505	19704


Parameter=Iron (mg/L) Sample Location=6 psu
Percent
50
40
30
20
10
0
0.00
0.15
0.30
0.45
0.60
0.75
0.90
1.05
1.20
1.35
1.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=12 psu

Moments			
N	348	**Sum Weights**	348
Mean	0.22121667	**Sum Observations**	76.9834
Std Deviation	0.31641892	**Variance**	0.10012093
Skewness	15.3984875	**Kurtosis**	267.460902
Uncorrected SS	51.7719746	**Corrected SS**	34.7419634
Coeff Variation	143.03575	**Std Error Mean**	0.01696183

Basic Statistical Measures			
Location		**Variability**	
Mean	0.221217	**Std Deviation**	0.31642
Median	0.181000	**Variance**	0.10012
Mode	0.170000	**Range**	5.70500
		Interquartile Range	0.11250

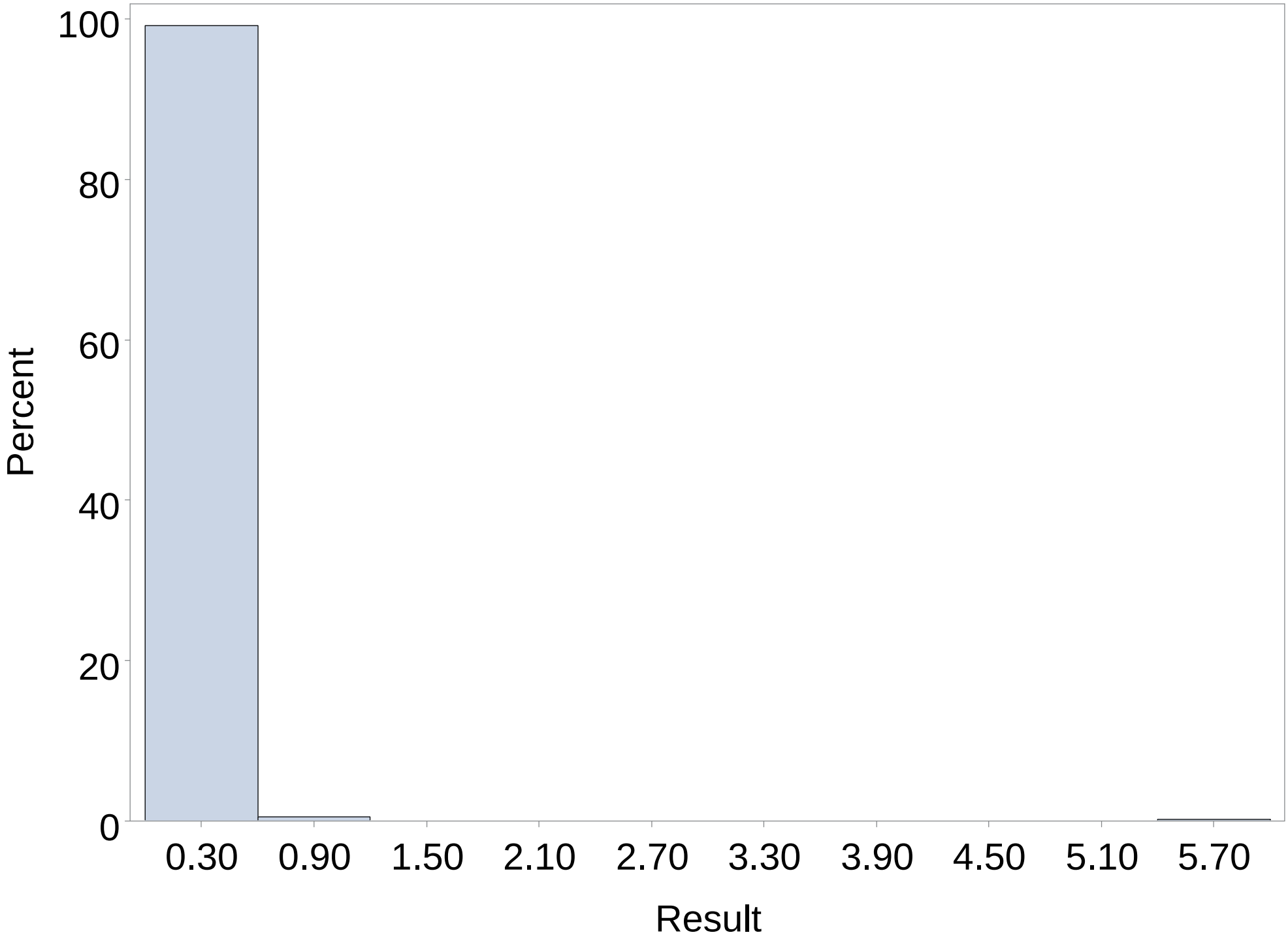
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.04202	**Pr > |t|**	<.0001
Sign	**M**	174	**Pr >= |M|**	<.0001
Signed Rank	**S**	30363	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.7350
99%	0.5390
95%	0.4270
90%	0.3380
75% Q3	0.2500
50% Median	0.1810
25% Q1	0.1375
10%	0.0922
5%	0.0700
1%	0.0400
0% Min	0.0300

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.03	20055	0.523	20134
0.03	20054	0.539	20125
0.03	19903	0.750	20078
0.04	19953	0.933	20079
0.04	19913	5.735	20049


Parameter=Iron (mg/L) Sample Location=12 psu
Percent
100
80
60
40
20
0
0.30
0.90
1.50
2.10
2.70
3.30
3.90
4.50
5.10
5.70
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=20 psu

Moments			
N	348	**Sum Weights**	348
Mean	0.18186609	**Sum Observations**	63.2894
Std Deviation	0.12168744	**Variance**	0.01480783
Skewness	2.11517074	**Kurtosis**	7.60489835
Uncorrected SS	16.6485142	**Corrected SS**	5.13831832
Coeff Variation	66.9104623	**Std Error Mean**	0.00652313

Basic Statistical Measures			
Location		**Variability**	
Mean	0.181866	**Std Deviation**	0.12169
Median	0.160500	**Variance**	0.01481
Mode	0.180000	**Range**	0.85000
		Interquartile Range	0.13900

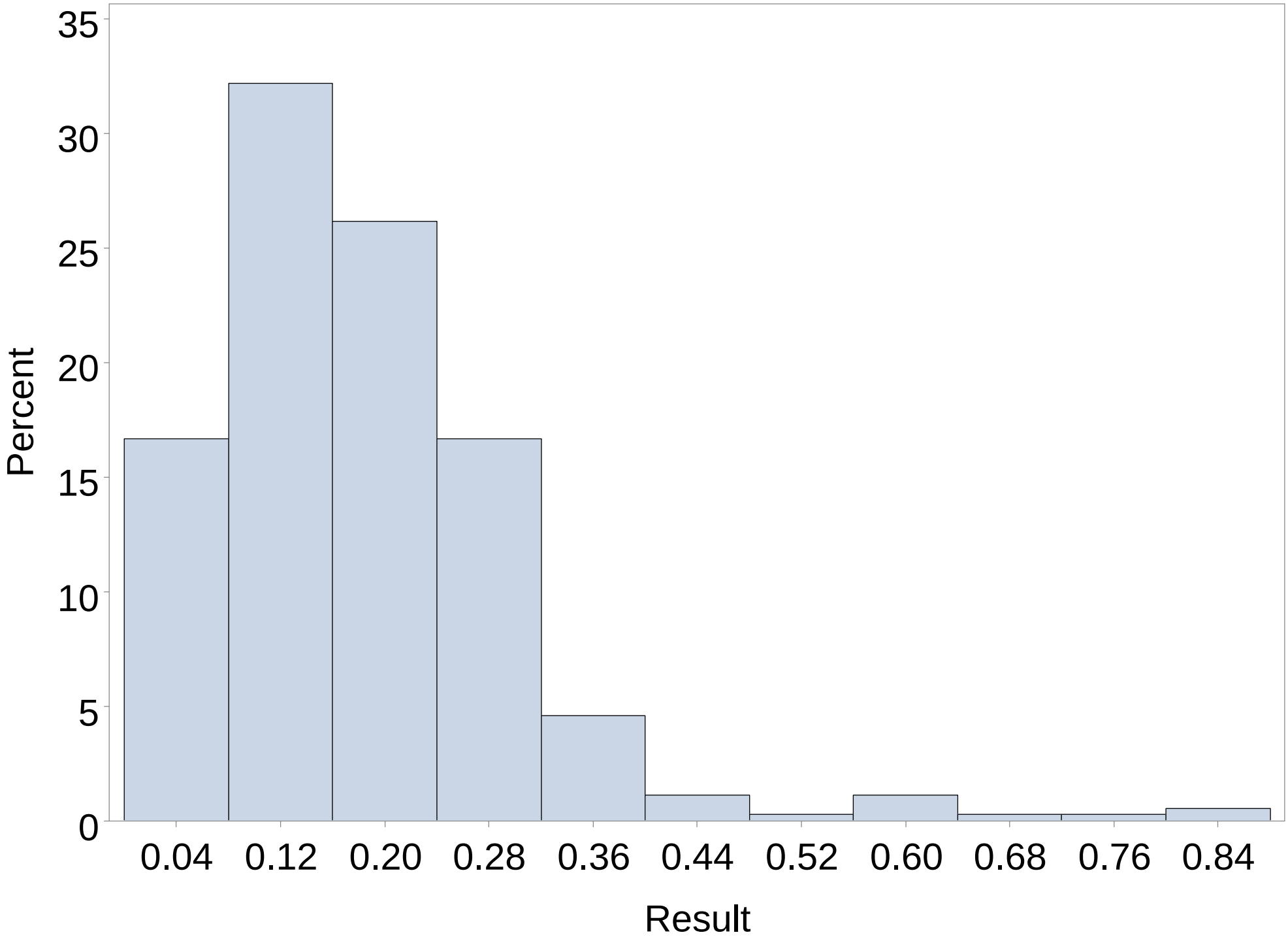
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.88018	**Pr > |t|**	<.0001
Sign	**M**	174	**Pr >= |M|**	<.0001
Signed Rank	**S**	30363	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.8600
99%	0.7170
95%	0.3830
90%	0.3070
75% Q3	0.2390
50% Median	0.1605
25% Q1	0.1000
10%	0.0600
5%	0.0400
1%	0.0200
0% Min	0.0100

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.01	20338	0.630	20386
0.01	20267	0.717	20511
0.02	20299	0.798	20390
0.02	20298	0.813	20560
0.02	20296	0.860	20259


Parameter=Iron (mg/L) Sample Location=20 psu
Percent
35
30
25
20
15
10
5
0
0.04
0.12
0.20
0.28
0.36
0.44
0.52
0.60
0.68
0.76
0.84
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	0.34965859	**Sum Observations**	79.3725
Std Deviation	0.21717313	**Variance**	0.04716417
Skewness	0.63007121	**Kurtosis**	-0.5085074
Uncorrected SS	38.412379	**Corrected SS**	10.6591025
Coeff Variation	62.1100527	**Std Error Mean**	0.01441429

Basic Statistical Measures			
Location		**Variability**	
Mean	0.349659	**Std Deviation**	0.21717
Median	0.311000	**Variance**	0.04716
Mode	0.219000	**Range**	0.89100
		Interquartile Range	0.34300

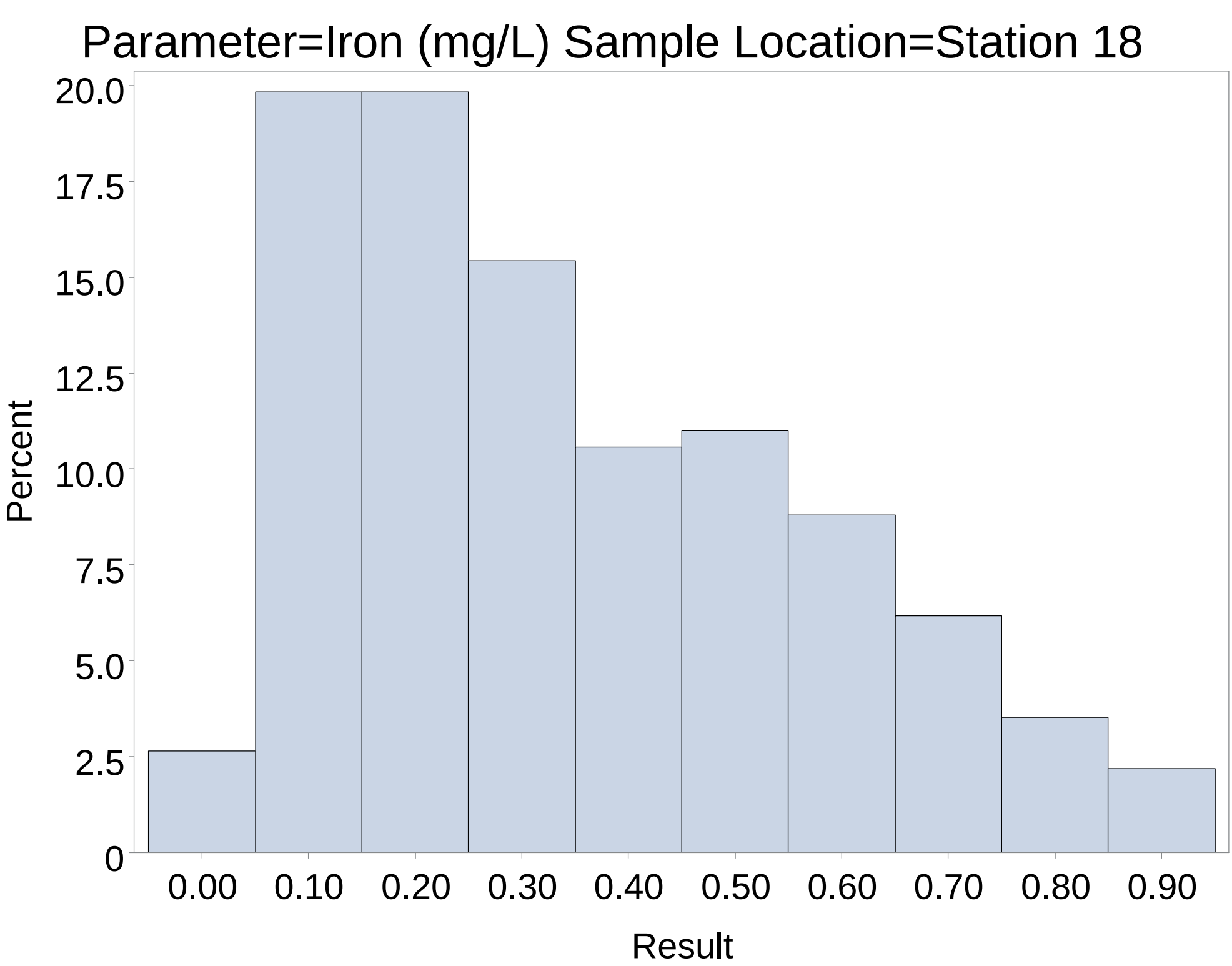
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.25778	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.9200
99%	0.8860
95%	0.7580
90%	0.6680
75% Q3	0.5080
50% Median	0.3110
25% Q1	0.1650
10%	0.1060
5%	0.0891
1%	0.0300
0% Min	0.0290

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.029	20778	0.857	20626
0.029	20724	0.861	20676
0.030	20630	0.886	20807
0.040	20612	0.905	20806
0.040	20609	0.920	20700


Parameter=Iron (mg/L) Sample Location=Station 18
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=0 psu

Moments			
N	425	**Sum Weights**	425
Mean	0.42198118	**Sum Observations**	179.342
Std Deviation	0.33416519	**Variance**	0.11166637
Skewness	2.11314541	**Kurtosis**	9.86016538
Uncorrected SS	123.02549	**Corrected SS**	47.3465418
Coeff Variation	79.1895956	**Std Error Mean**	0.01620939

Basic Statistical Measures			
Location		**Variability**	
Mean	0.421981	**Std Deviation**	0.33417
Median	0.372000	**Variance**	0.11167
Mode	0.004000	**Range**	2.87000
		Interquartile Range	0.38800

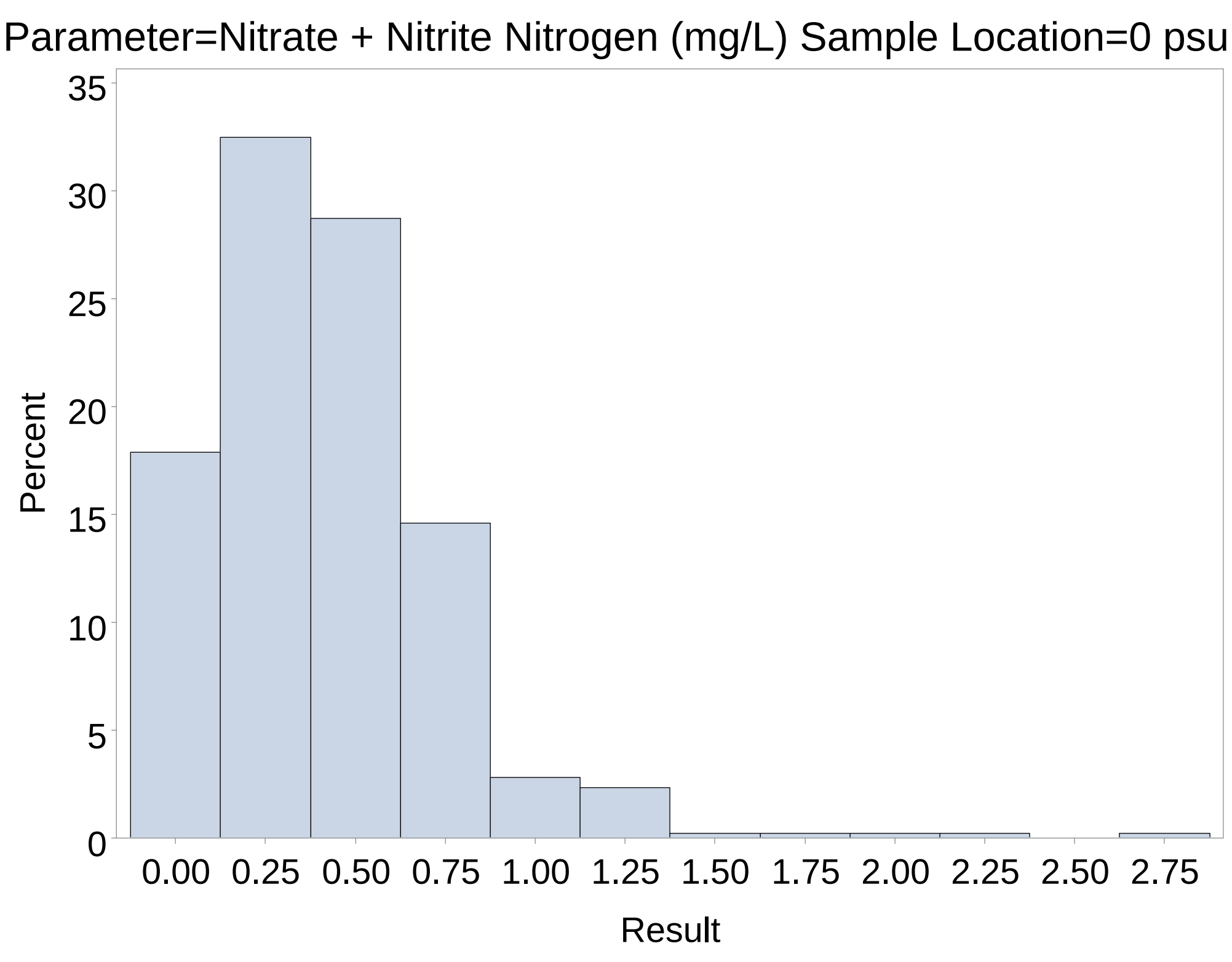
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.03313	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.870
99%	1.430
95%	0.972
90%	0.764
75% Q3	0.586
50% Median	0.372
25% Q1	0.198
10%	0.051
5%	0.011
1%	0.001
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.000	20883	1.430	21068
0.001	20891	1.839	20907
0.001	20889	2.000	21036
0.001	20871	2.290	21140
0.001	20834	2.870	20992


Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=0 psu
Percent
35
30
25
20
15
10
5
0
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
2.00
2.25
2.50
2.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=6 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.18703513	**Sum Observations**	79.864
Std Deviation	0.15652275	**Variance**	0.02449937
Skewness	2.11137342	**Kurtosis**	10.5117883
Uncorrected SS	25.374106	**Corrected SS**	10.4367325
Coeff Variation	83.6862858	**Std Error Mean**	0.00757467

Basic Statistical Measures			
Location		**Variability**	
Mean	0.187035	**Std Deviation**	0.15652
Median	0.160000	**Variance**	0.02450
Mode	0.004000	**Range**	1.44900
		Interquartile Range	0.17600

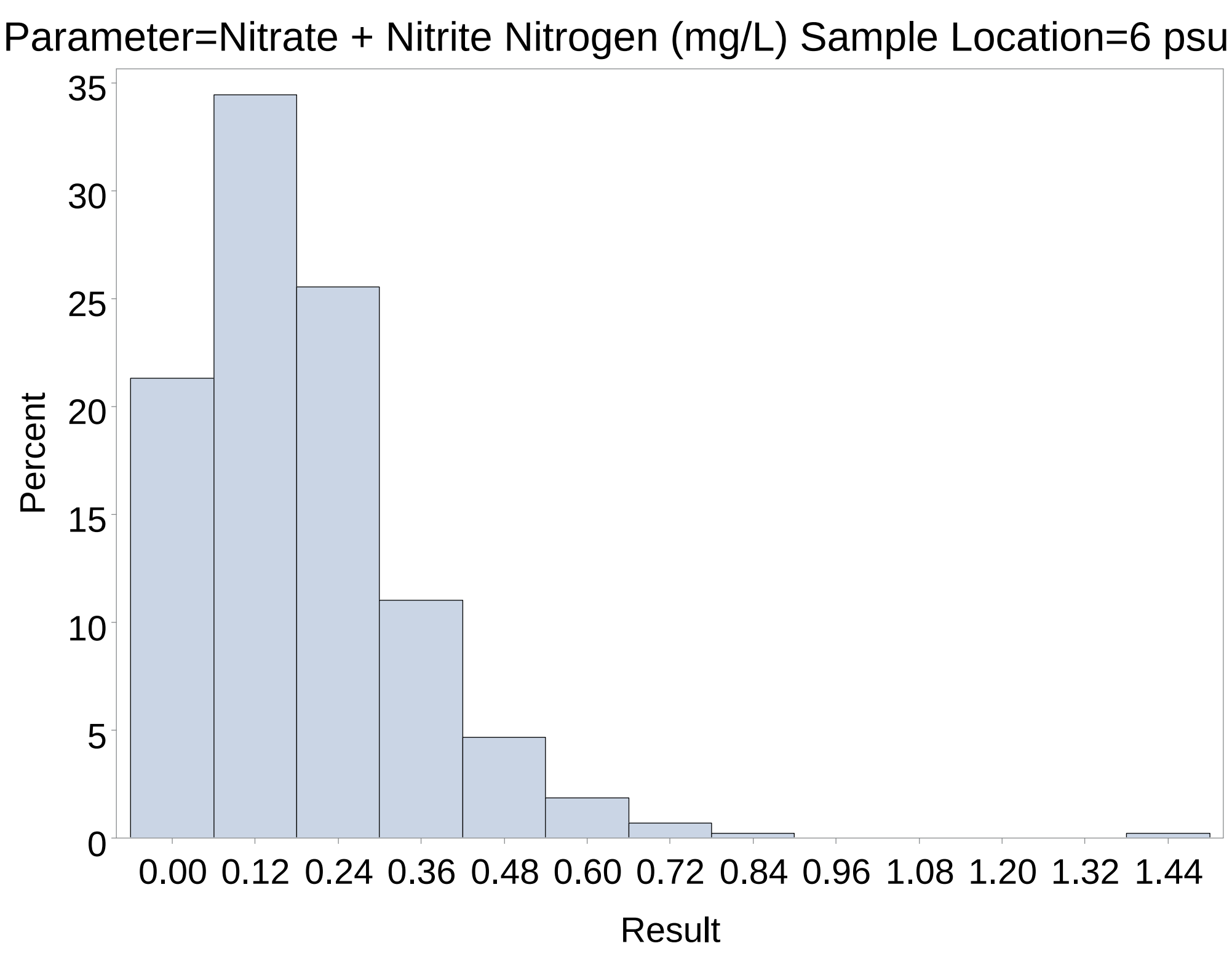
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.69219	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.450
99%	0.667
95%	0.455
90%	0.386
75% Q3	0.254
50% Median	0.160
25% Q1	0.078
10%	0.016
5%	0.004
1%	0.002
0% Min	0.001

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	21309	0.667	21353
0.001	21296	0.707	21352
0.002	21450	0.722	21453
0.002	21428	0.861	21327
0.002	21368	1.450	21491


Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=6 psu
Percent
35
30
25
20
15
10
5
0
0.00
0.12
0.24
0.36
0.48
0.60
0.72
0.84
0.96
1.08
1.20
1.32
1.44
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.09478337	**Sum Observations**	40.4725
Std Deviation	0.10278298	**Variance**	0.01056434
Skewness	2.69799912	**Kurtosis**	15.9201388
Uncorrected SS	8.33652897	**Corrected SS**	4.50040893
Coeff Variation	108.439881	**Std Error Mean**	0.00497402

Basic Statistical Measures			
Location		**Variability**	
Mean	0.094783	**Std Deviation**	0.10278
Median	0.066000	**Variance**	0.01056
Mode	0.004000	**Range**	1.01900
		Interquartile Range	0.12300

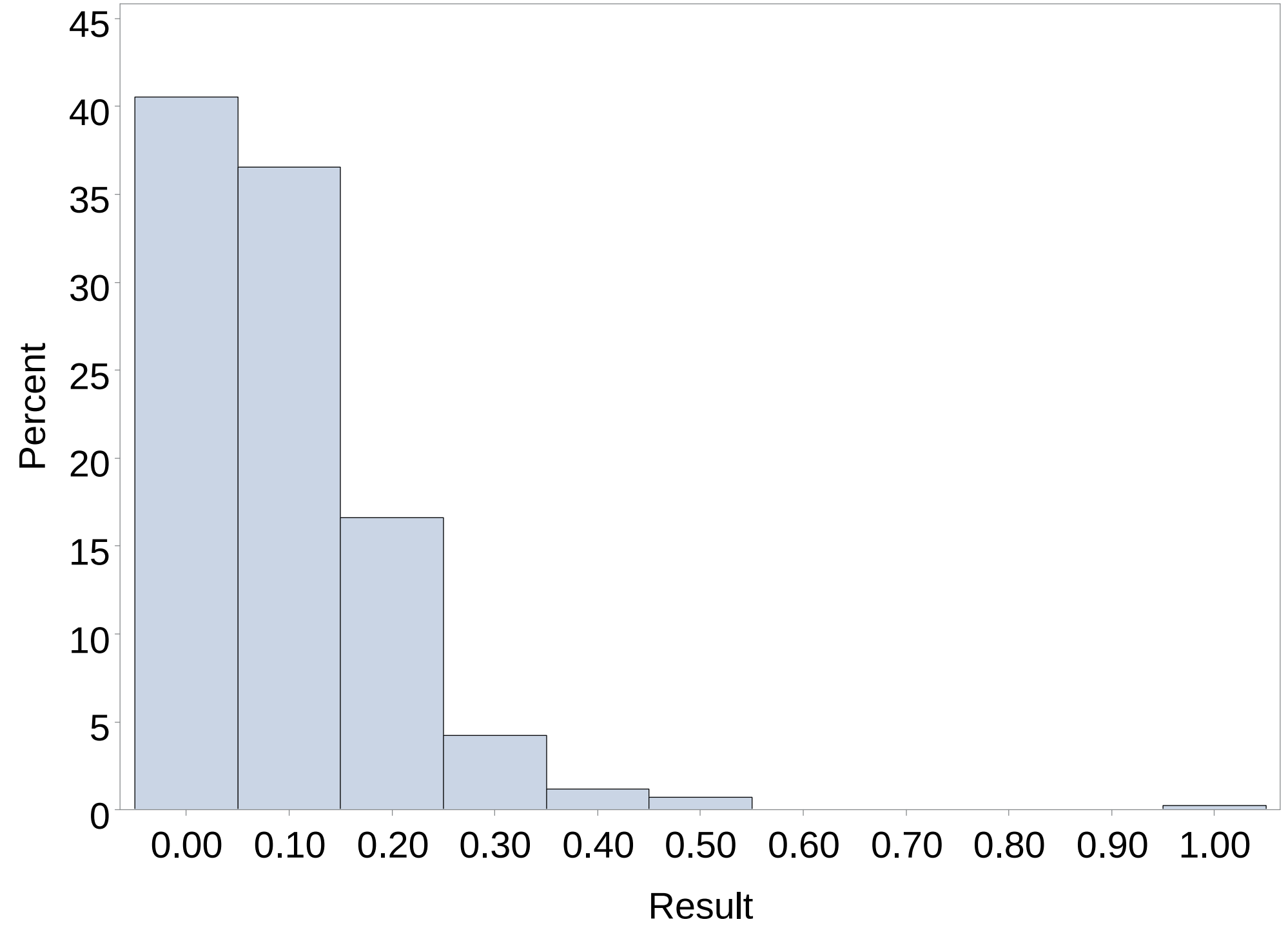
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.0557	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.020
99%	0.425
95%	0.279
90%	0.225
75% Q3	0.138
50% Median	0.066
25% Q1	0.015
10%	0.004
5%	0.003
1%	0.001
0% Min	0.001

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	21830	0.425	21755
0.001	21809	0.450	21780
0.001	21794	0.467	21726
0.001	21773	0.501	21754
0.001	21758	1.020	21908


Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=12 psu
Percent
45
40
35
30
25
20
15
10
5
0
0.00
0.10
0.20
0.30
0.40
0.50
0.60
0.70
0.80
0.90
1.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.03994824	**Sum Observations**	17.0579
Std Deviation	0.06749731	**Variance**	0.00455589
Skewness	4.01104928	**Kurtosis**	23.7762302
Uncorrected SS	2.62224117	**Corrected SS**	1.94080803
Coeff Variation	168.961906	**Std Error Mean**	0.00326642

Basic Statistical Measures			
Location		**Variability**	
Mean	0.039948	**Std Deviation**	0.06750
Median	0.013000	**Variance**	0.00456
Mode	0.004000	**Range**	0.62500
		Interquartile Range	0.04300

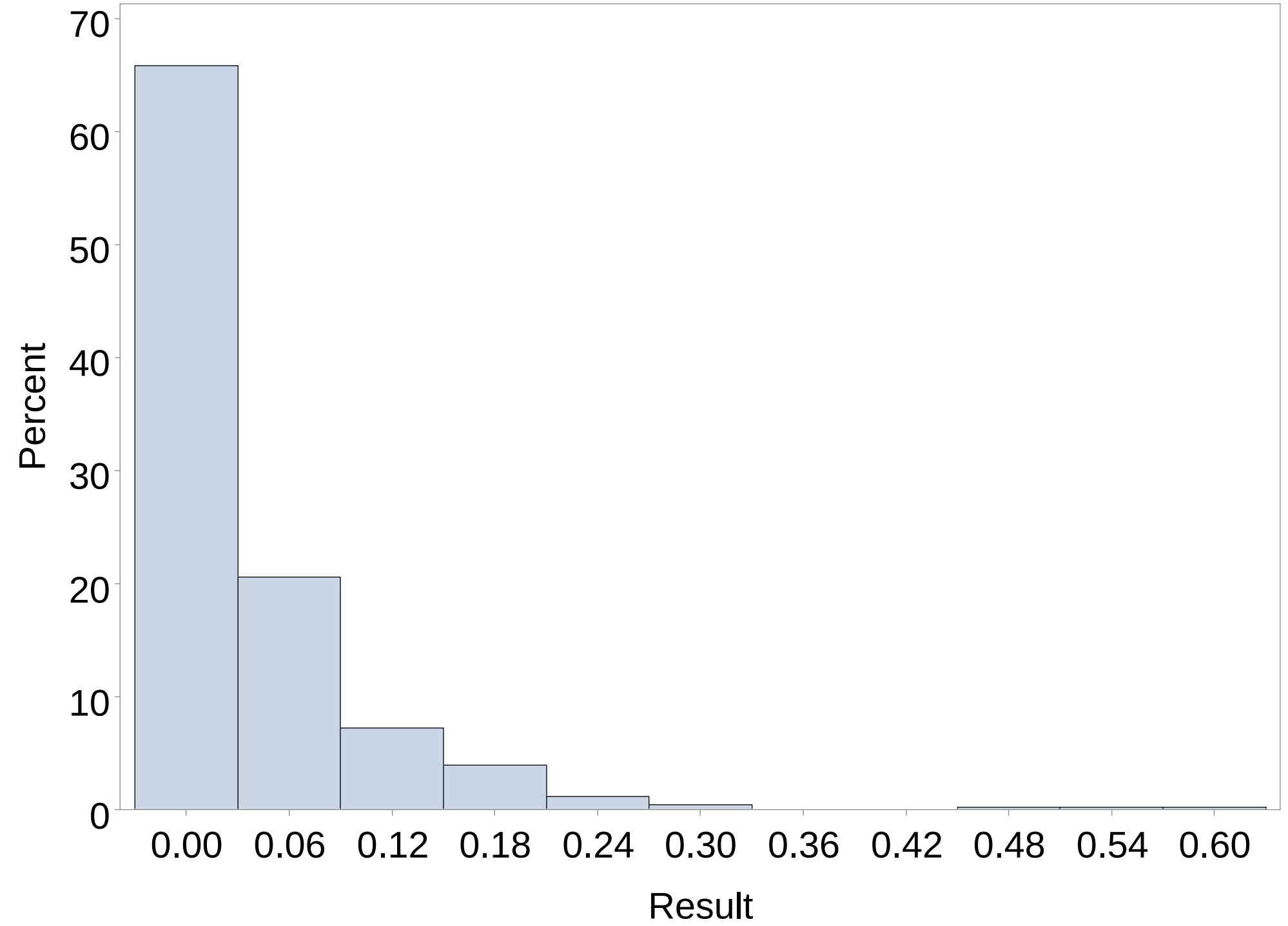
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.22996	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.626
99%	0.286
95%	0.160
90%	0.115
75% Q3	0.047
50% Median	0.013
25% Q1	0.004
10%	0.002
5%	0.001
1%	0.001
0% Min	0.001

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	22273	0.286	22181
0.001	22271	0.315	22462
0.001	22268	0.464	22527
0.001	22257	0.530	22469
0.001	22256	0.626	22170


Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=20 psu
Percent
70
60
50
40
30
20
10
0
0.00
0.06
0.12
0.18
0.24
0.30
0.36
0.42
0.48
0.54
0.60
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	0.40221189	**Sum Observations**	91.3021
Std Deviation	0.36451054	**Variance**	0.13286793
Skewness	3.05892842	**Kurtosis**	18.2996818
Uncorrected SS	66.7509438	**Corrected SS**	30.0281532
Coeff Variation	90.6264947	**Std Error Mean**	0.02419341

Basic Statistical Measures			
Location		**Variability**	
Mean	0.402212	**Std Deviation**	0.36451
Median	0.335000	**Variance**	0.13287
Mode	0.004000	**Range**	3.24800
		Interquartile Range	0.39400

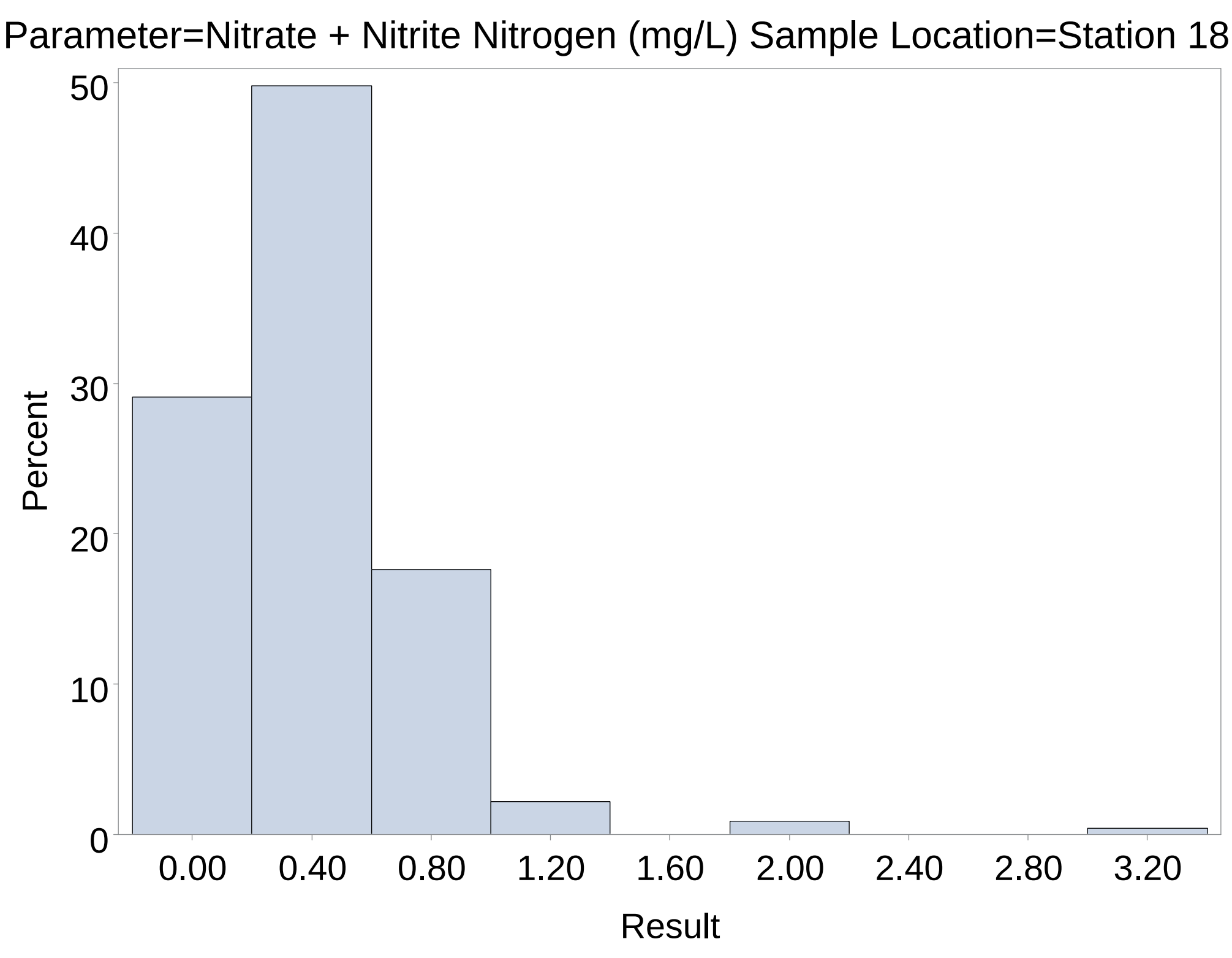
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.62485	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.250
99%	1.880
95%	0.935
90%	0.808
75% Q3	0.558
50% Median	0.335
25% Q1	0.164
10%	0.025
5%	0.005
1%	0.004
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	22545	1.24	22558
0.004	22749	1.27	22744
0.004	22736	1.88	22544
0.004	22714	2.13	22649
0.004	22688	3.25	22567


Parameter=Nitrate + Nitrite Nitrogen (mg/L) Sample Location=Station 18
Percent
50
40
30
20
10
0
0.00
0.40
0.80
1.20
1.60
2.00
2.40
2.80
3.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=0 psu

Moments			
N	425	**Sum Weights**	425
Mean	0.04991059	**Sum Observations**	21.212
Std Deviation	0.04482862	**Variance**	0.00200961
Skewness	2.67803448	**Kurtosis**	14.6317047
Uncorrected SS	1.910776	**Corrected SS**	0.8520726
Coeff Variation	89.817856	**Std Error Mean**	0.00217451

Basic Statistical Measures			
Location		**Variability**	
Mean	0.049911	**Std Deviation**	0.04483
Median	0.042000	**Variance**	0.00201
Mode	0.008000	**Range**	0.42600
		Interquartile Range	0.05300

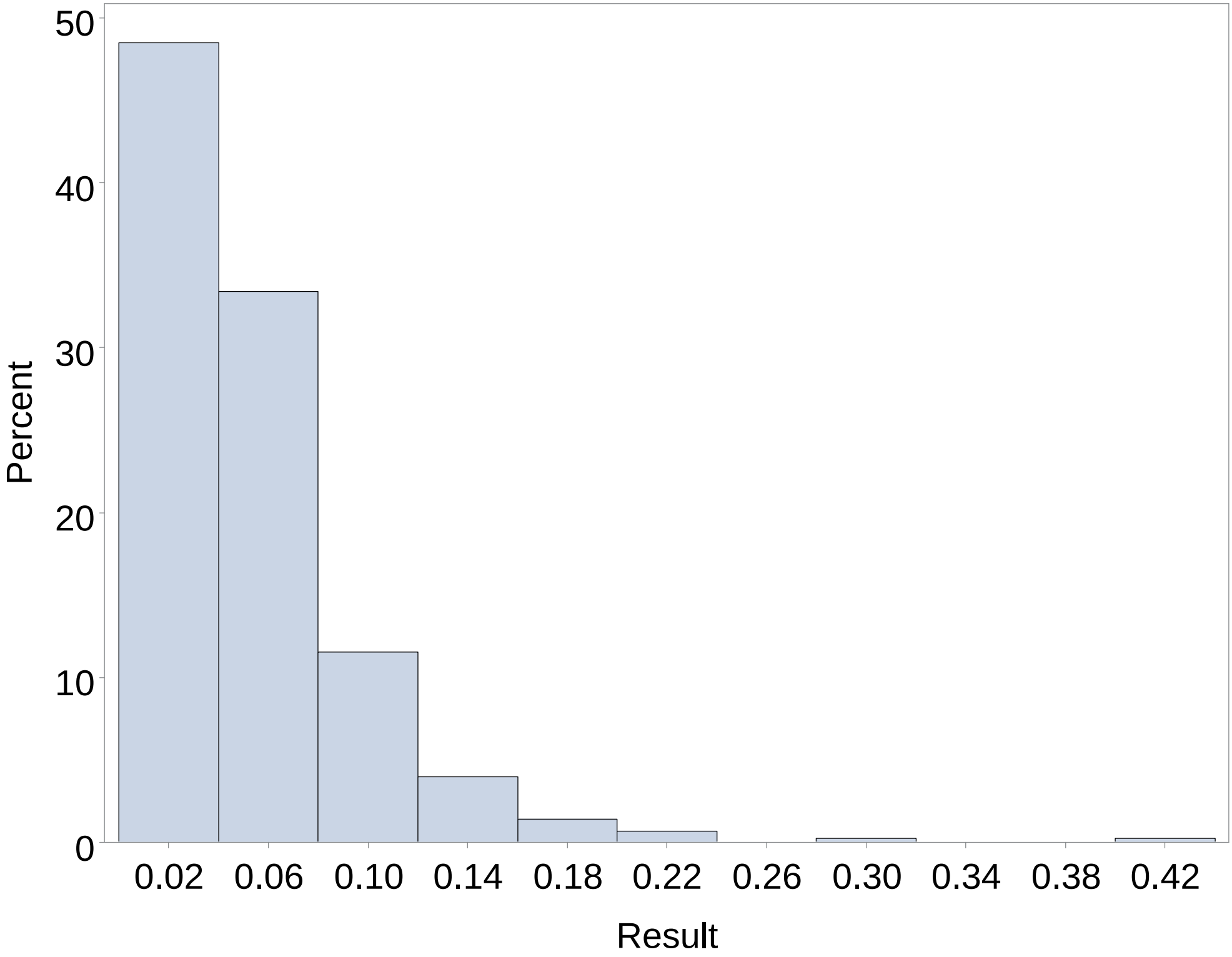
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.95259	**Pr > |t|**	<.0001
Sign	**M**	212.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45262.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.427
99%	0.200
95%	0.131
90%	0.100
75% Q3	0.070
50% Median	0.042
25% Q1	0.017
10%	0.008
5%	0.006
1%	0.001
0% Min	0.001

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	22840	0.200	23058
0.001	22824	0.209	23033
0.001	22804	0.230	23069
0.001	22790	0.310	23162
0.001	22785	0.427	22813


50
40
30
20
10
0
Percent
0.02
0.06
0.10
0.14
0.18
0.22
0.26
0.30
0.34
0.38
0.42
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=6 psu

Moments			
N	426	**Sum Weights**	426
Mean	0.05849531	**Sum Observations**	24.919
Std Deviation	0.07206472	**Variance**	0.00519332
Skewness	3.41980027	**Kurtosis**	18.9766126
Uncorrected SS	3.664807	**Corrected SS**	2.20716249
Coeff Variation	123.197438	**Std Error Mean**	0.00349155

Basic Statistical Measures			
Location		**Variability**	
Mean	0.058495	**Std Deviation**	0.07206
Median	0.037000	**Variance**	0.00519
Mode	0.010000	**Range**	0.69500
		Interquartile Range	0.06600

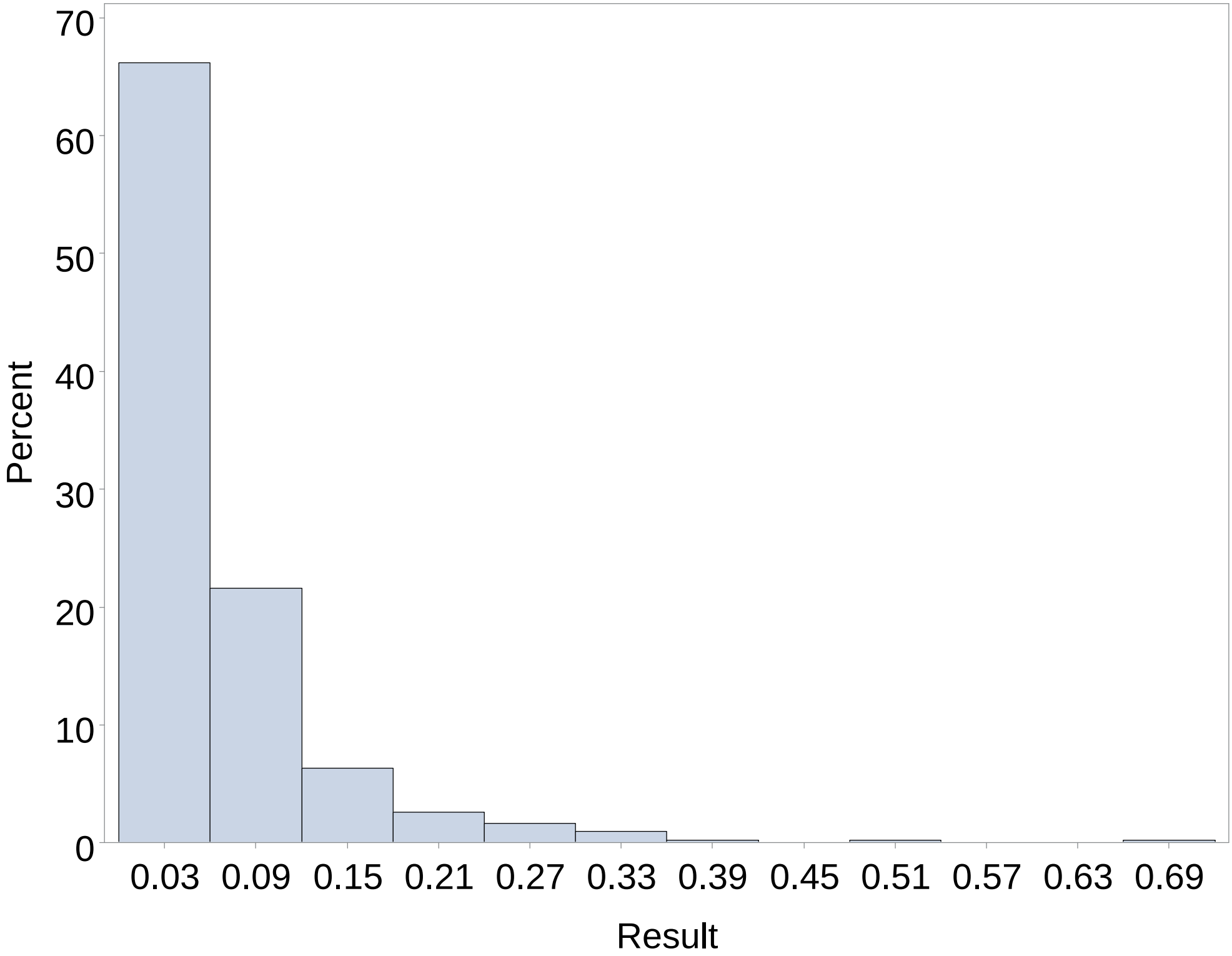
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.75341	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.696
99%	0.313
95%	0.190
90%	0.133
75% Q3	0.078
50% Median	0.037
25% Q1	0.012
10%	0.008
5%	0.006
1%	0.001
0% Min	0.001

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	23297	0.313	23316
0.001	23264	0.318	23322
0.001	23258	0.366	23232
0.001	23223	0.486	23495
0.001	23217	0.696	23482


70
60
50
40
30
20
10
0
Percent
0.03
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
0.57
0.63
0.69
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=12 psu

Moments			
N	426	**Sum Weights**	426
Mean	0.05446948	**Sum Observations**	23.204
Std Deviation	0.07024988	**Variance**	0.00493504
Skewness	2.54413719	**Kurtosis**	7.92270516
Uncorrected SS	3.361304	**Corrected SS**	2.0973941
Coeff Variation	128.971069	**Std Error Mean**	0.00340362

Basic Statistical Measures			
Location		**Variability**	
Mean	0.054469	**Std Deviation**	0.07025
Median	0.027500	**Variance**	0.00494
Mode	0.010000	**Range**	0.44100
		Interquartile Range	0.06000

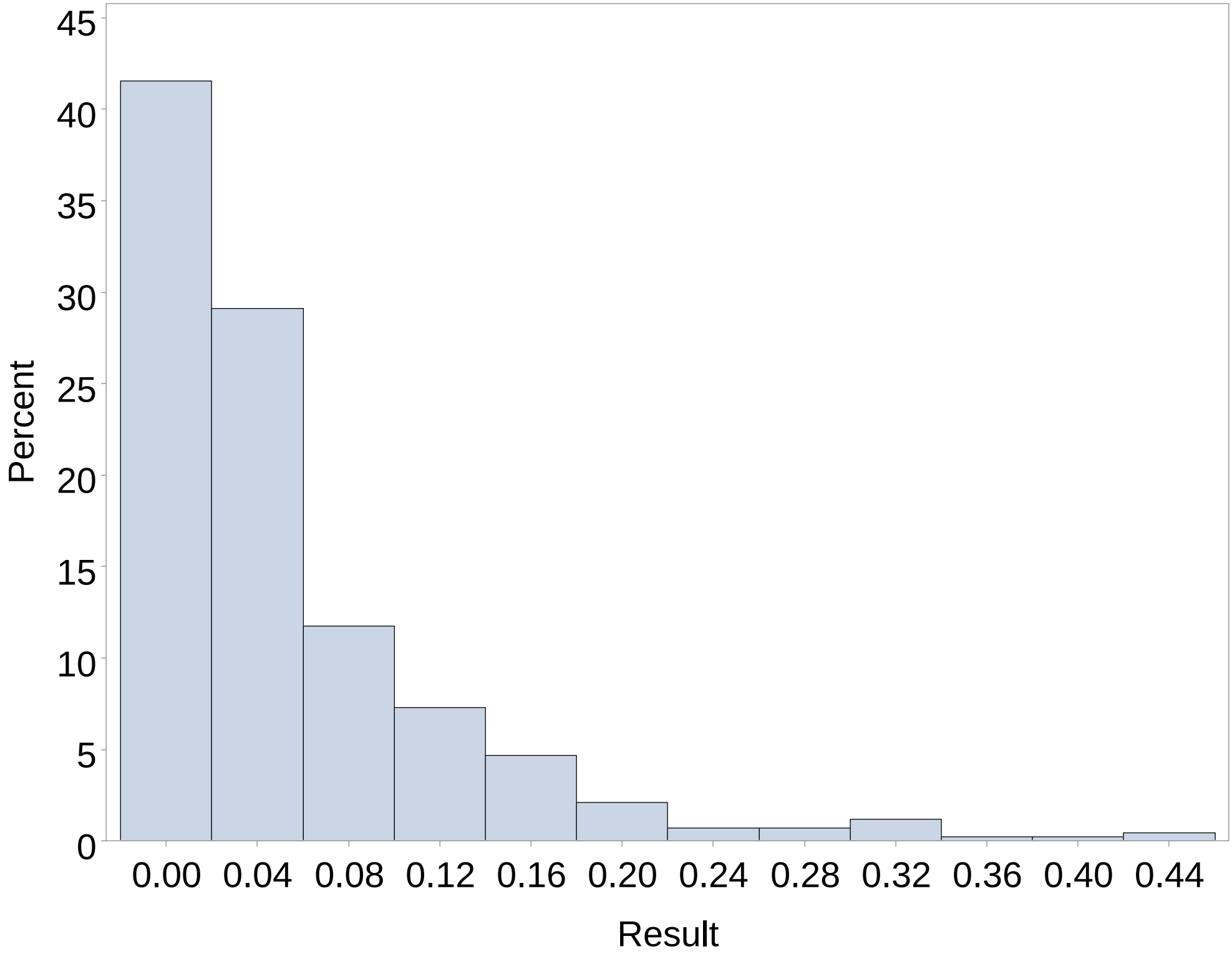
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.00341	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.4420
99%	0.3330
95%	0.1910
90%	0.1420
75% Q3	0.0700
50% Median	0.0275
25% Q1	0.0100
10%	0.0060
5%	0.0010
1%	0.0010
0% Min	0.0010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	23723	0.333	24015
0.001	23711	0.347	23742
0.001	23692	0.418	23921
0.001	23690	0.435	23891
0.001	23689	0.442	23868


45
40
35
30
25
20
15
10
5
0
Percent
0.00
0.04
0.08
0.12
0.16
0.20
0.24
0.28
0.32
0.36
0.40
0.44
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=20 psu

Moments			
N	426	**Sum Weights**	426
Mean	0.05124413	**Sum Observations**	21.83
Std Deviation	0.11475718	**Variance**	0.01316921
Skewness	8.19158891	**Kurtosis**	93.9234955
Uncorrected SS	6.715574	**Corrected SS**	5.59691461
Coeff Variation	223.942096	**Std Error Mean**	0.00556

Basic Statistical Measures			
Location		**Variability**	
Mean	0.051244	**Std Deviation**	0.11476
Median	0.018500	**Variance**	0.01317
Mode	0.010000	**Range**	1.61700
		Interquartile Range	0.04500

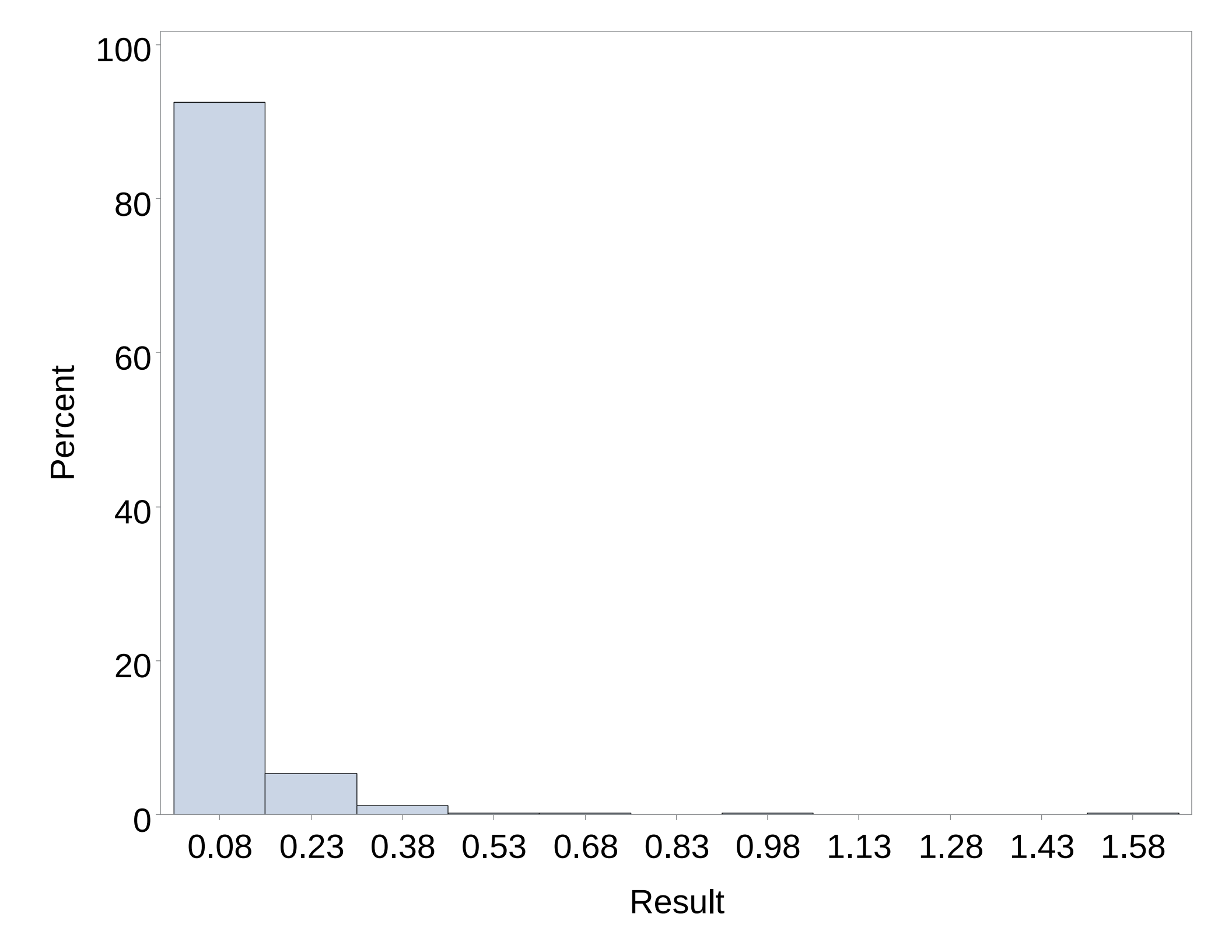
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.216564	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.6180
99%	0.4200
95%	0.1940
90%	0.1260
75% Q3	0.0530
50% Median	0.0185
25% Q1	0.0080
10%	0.0030
5%	0.0010
1%	0.0010
0% Min	0.0010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.001	24149	0.420	24312
0.001	24137	0.507	24335
0.001	24118	0.660	24237
0.001	24116	0.988	24119
0.001	24110	1.618	24128


100
80
60
40
20
0
Percent
0.08
0.23
0.38
0.53
0.68
0.83
0.98
1.13
1.28
1.43
1.58
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	0.05353304	**Sum Observations**	12.152
Std Deviation	0.07396042	**Variance**	0.00547014
Skewness	3.52040461	**Kurtosis**	15.6967745
Uncorrected SS	1.886786	**Corrected SS**	1.2362525
Coeff Variation	138.158455	**Std Error Mean**	0.00490893

Basic Statistical Measures			
Location		**Variability**	
Mean	0.053533	**Std Deviation**	0.07396
Median	0.029000	**Variance**	0.00547
Mode	0.008000	**Range**	0.51100
		Interquartile Range	0.06200

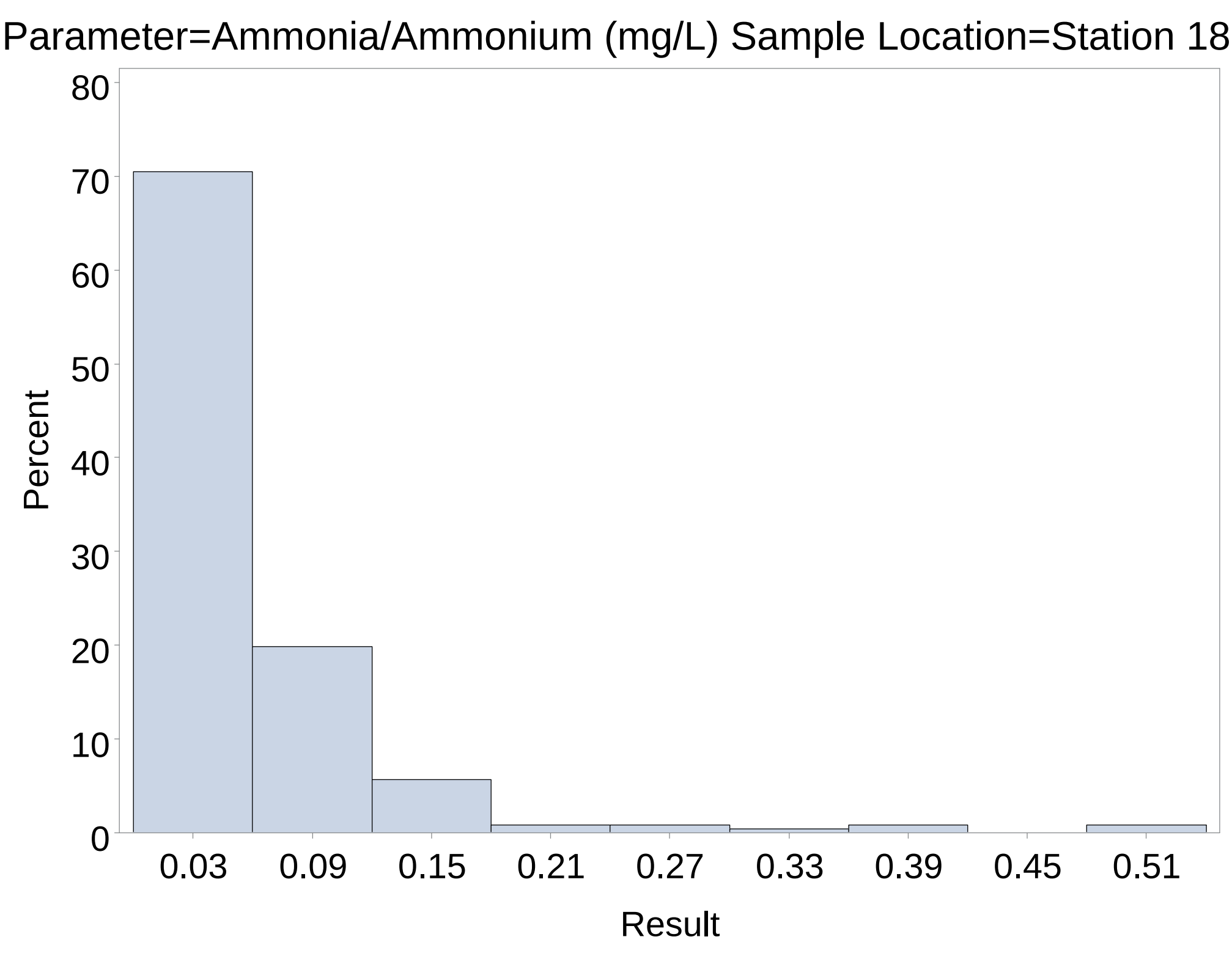
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.90525	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.517
99%	0.410
95%	0.174
90%	0.116
75% Q3	0.072
50% Median	0.029
25% Q1	0.010
10%	0.008
5%	0.008
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	24533	0.340	24540
0.006	24530	0.360	24487
0.006	24528	0.410	24572
0.006	24527	0.491	24564
0.006	24526	0.517	24603


Parameter=Ammonia/Ammonium (mg/L) Sample Location=Station 18
Percent
80
70
60
50
40
30
20
10
0
0.03
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	1.07535211	**Sum Observations**	458.1
Std Deviation	0.41002021	**Variance**	0.16811657
Skewness	1.42366033	**Kurtosis**	8.27106637
Uncorrected SS	564.068346	**Corrected SS**	71.4495432
Coeff Variation	38.1289258	**Std Error Mean**	0.01986554

Basic Statistical Measures			
Location		**Variability**	
Mean	1.075352	**Std Deviation**	0.41002
Median	1.030500	**Variance**	0.16812
Mode	0.761000	**Range**	4.35100
		Interquartile Range	0.49600

Note: The mode displayed is the smallest of 8 modes with a count of 3.

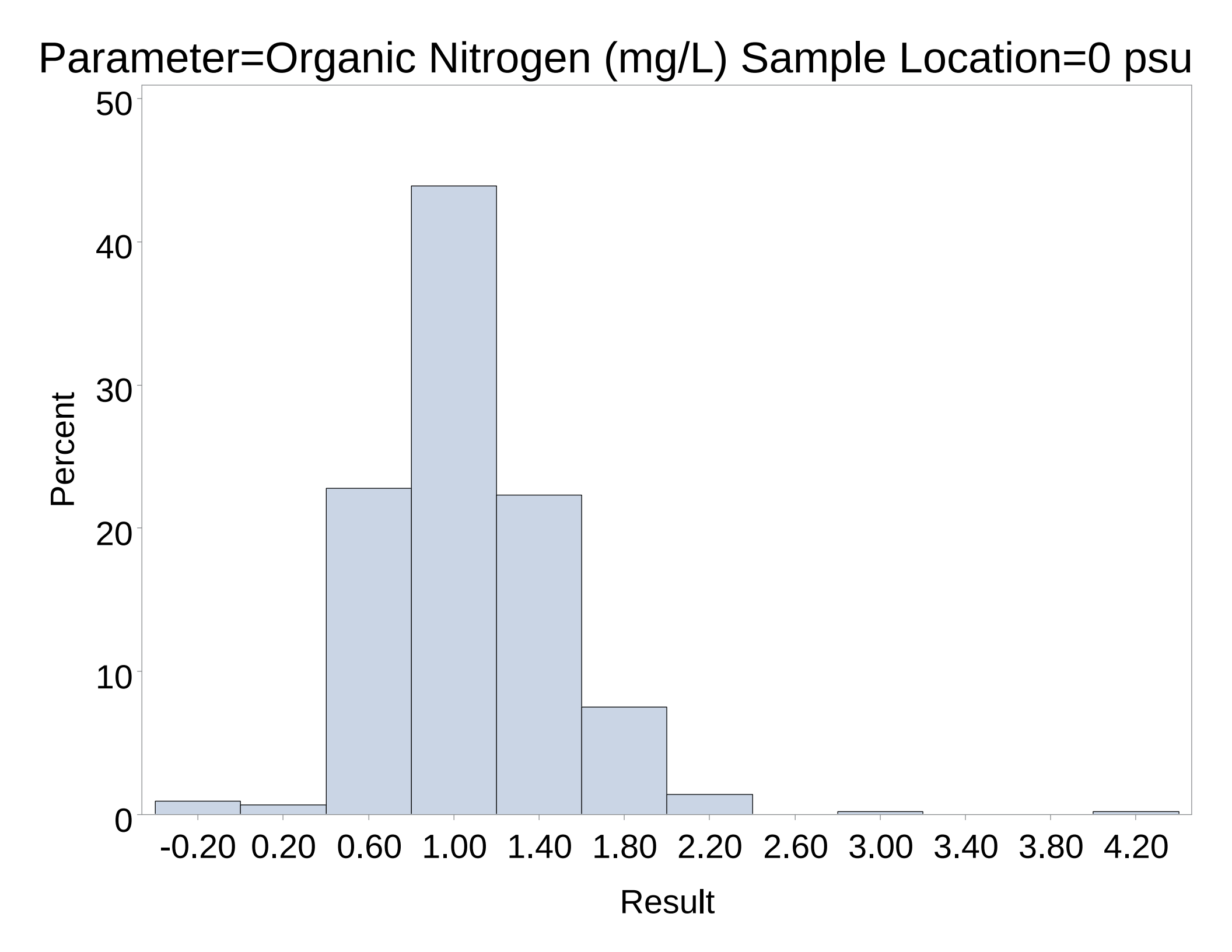
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	54.13152	**Pr > |t|**	<.0001
Sign	**M**	209	**Pr >= |M|**	<.0001
Signed Rank	**S**	45465.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.2140
99%	2.1790
95%	1.7470
90%	1.5750
75% Q3	1.3000
50% Median	1.0305
25% Q1	0.8040
10%	0.6360
5%	0.5700
1%	0.2180
0% Min	-0.1370

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.137	24753	2.179	24795
-0.021	24839	2.223	24867
-0.013	24761	2.296	24853
-0.001	24754	2.804	24878
0.218	24950	4.214	24856


Parameter=Organic Nitrogen (mg/L) Sample Location=0 psu
Percent
50
40
30
20
10
0
-0.20
0.20
0.60
1.00
1.40
1.80
2.20
2.60
3.00
3.40
3.80
4.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=6 psu

Moments			
N	427	**Sum Weights**	427
Mean	1.14684778	**Sum Observations**	489.704
Std Deviation	0.73218979	**Variance**	0.53610189
Skewness	8.47025003	**Kurtosis**	97.5856282
Uncorrected SS	789.995348	**Corrected SS**	228.379405
Coeff Variation	63.8436771	**Std Error Mean**	0.03543315

Basic Statistical Measures			
Location		**Variability**	
Mean	1.146848	**Std Deviation**	0.73219
Median	1.055000	**Variance**	0.53610
Mode	0.823000	**Range**	10.48600
		Interquartile Range	0.41400

Note: The mode displayed is the smallest of 7 modes with a count of 3.

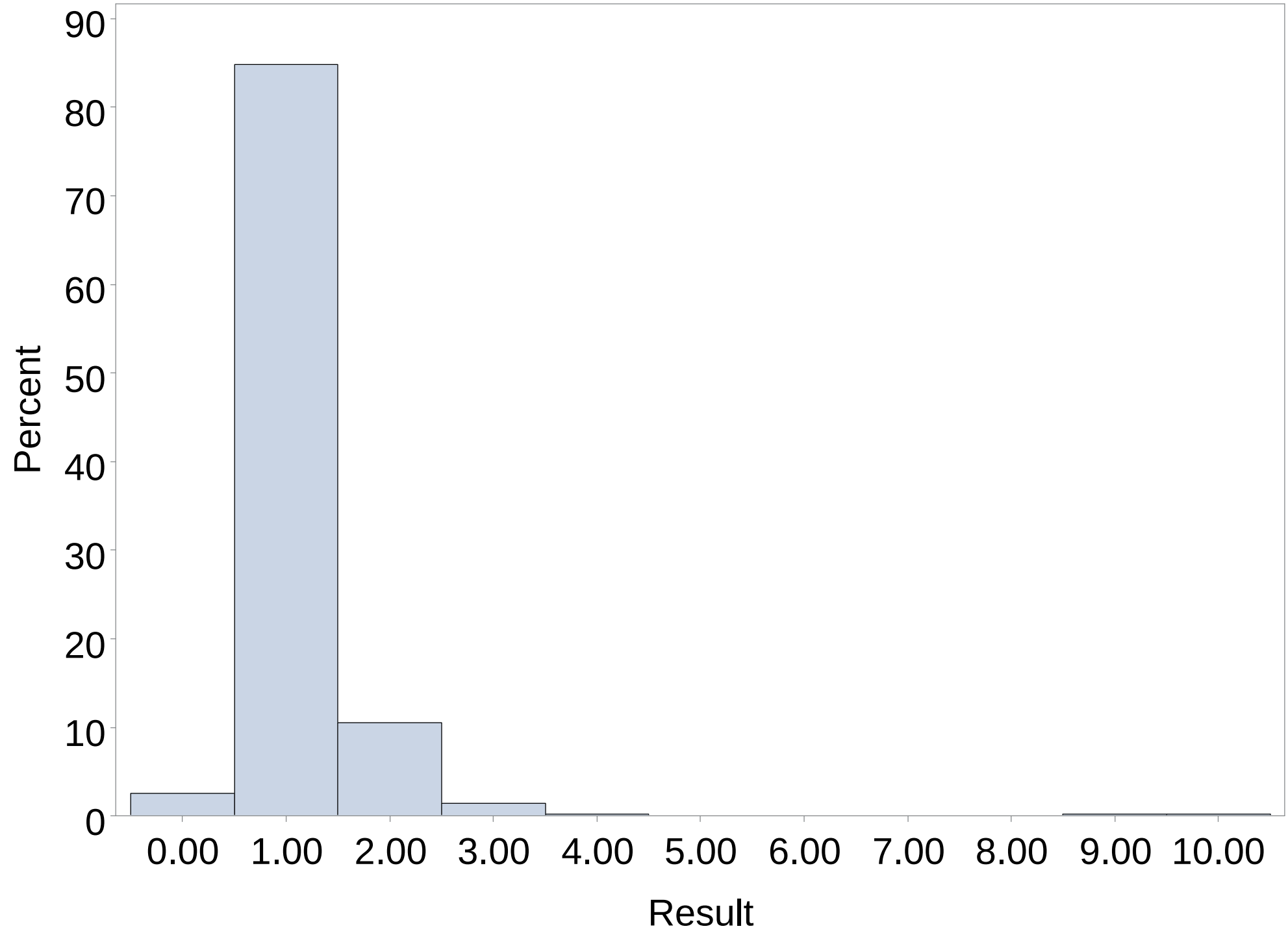
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.36652	**Pr > |t|**	<.0001
Sign	**M**	210.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45683	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.437
99%	3.050
95%	1.765
90%	1.568
75% Q3	1.274
50% Median	1.055
25% Q1	0.860
10%	0.699
5%	0.609
1%	0.422
0% Min	-0.049

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.049	25187	3.050	25362
-0.039	25180	3.470	25359
-0.028	25292	4.092	25484
0.399	25406	9.352	25171
0.422	25409	10.437	25438


Parameter=Organic Nitrogen (mg/L) Sample Location=6 psu
Percent
90
80
70
60
50
40
30
20
10
0
0.00
1.00
2.00
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	1.00551756	**Sum Observations**	429.356
Std Deviation	0.57229649	**Variance**	0.32752327
Skewness	6.42627338	**Kurtosis**	64.8338915
Uncorrected SS	571.249912	**Corrected SS**	139.524913
Coeff Variation	56.9156131	**Std Error Mean**	0.02769537

Basic Statistical Measures			
Location		**Variability**	
Mean	1.005518	**Std Deviation**	0.57230
Median	0.932000	**Variance**	0.32752
Mode	0.932000	**Range**	7.93600
		Interquartile Range	0.33600

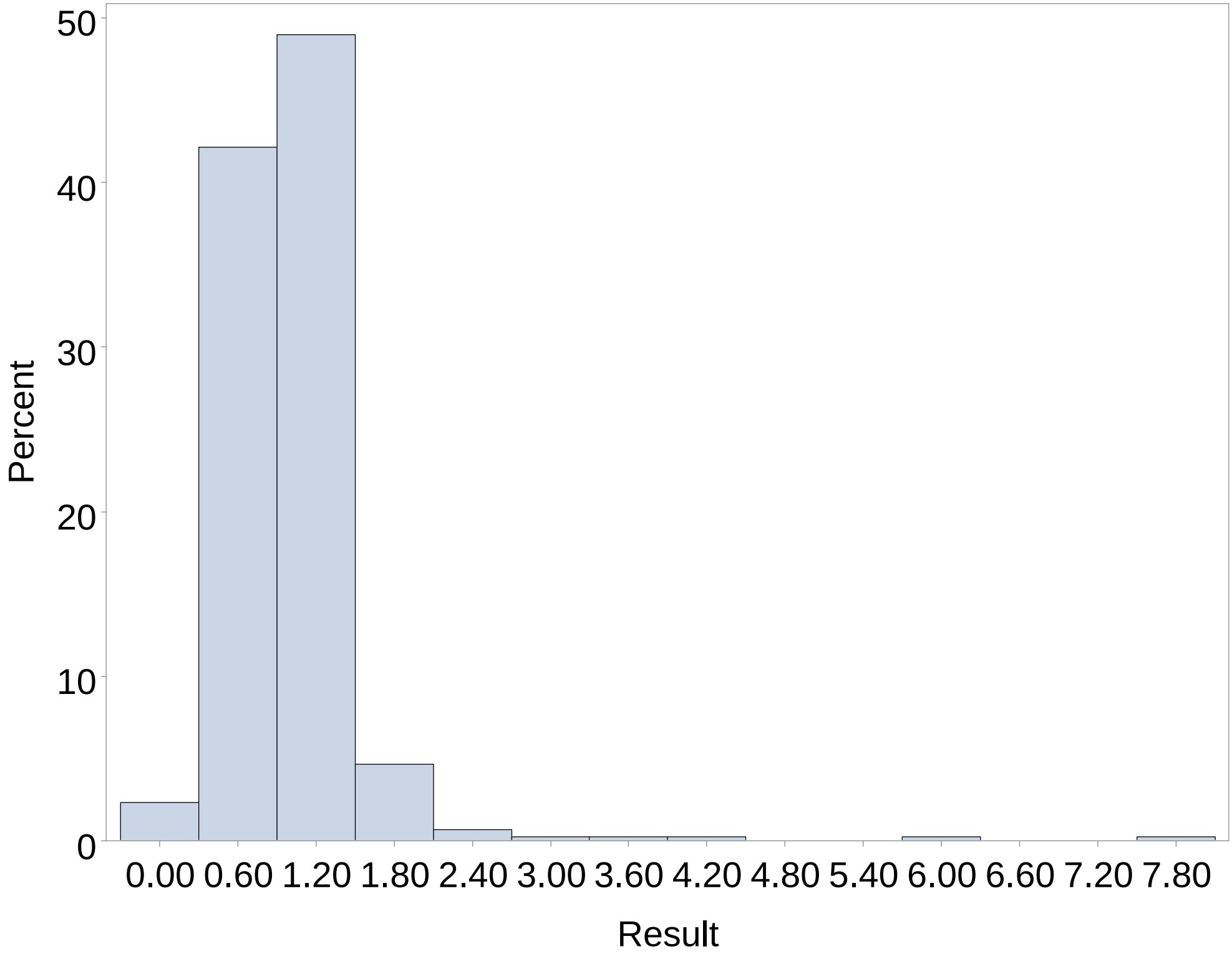
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.30634	**Pr > |t|**	<.0001
Sign	**M**	210.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45683	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.914
99%	2.867
95%	1.681
90%	1.378
75% Q3	1.114
50% Median	0.932
25% Q1	0.778
10%	0.634
5%	0.521
1%	0.050
0% Min	-0.022

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.022	25718	2.867	25663
-0.017	25607	3.592	25911
-0.001	25614	4.159	25555
0.050	25783	5.948	25673
0.050	25782	7.914	25807


50
40
30
20
10
0
Percent
0.00 0.60 1.20 1.80 2.40 3.00 3.60 4.20 4.80 5.40 6.00 6.60 7.20 7.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.74002342	**Sum Observations**	315.99
Std Deviation	0.34784865	**Variance**	0.12099868
Skewness	2.62353901	**Kurtosis**	22.209396
Uncorrected SS	285.38544	**Corrected SS**	51.5454398
Coeff Variation	47.005087	**Std Error Mean**	0.01683358

Basic Statistical Measures			
Location		**Variability**	
Mean	0.740023	**Std Deviation**	0.34785
Median	0.721000	**Variance**	0.12100
Mode	0.639000	**Range**	4.62800
		Interquartile Range	0.26500

Note: The mode displayed is the smallest of 3 modes with a count of 4.

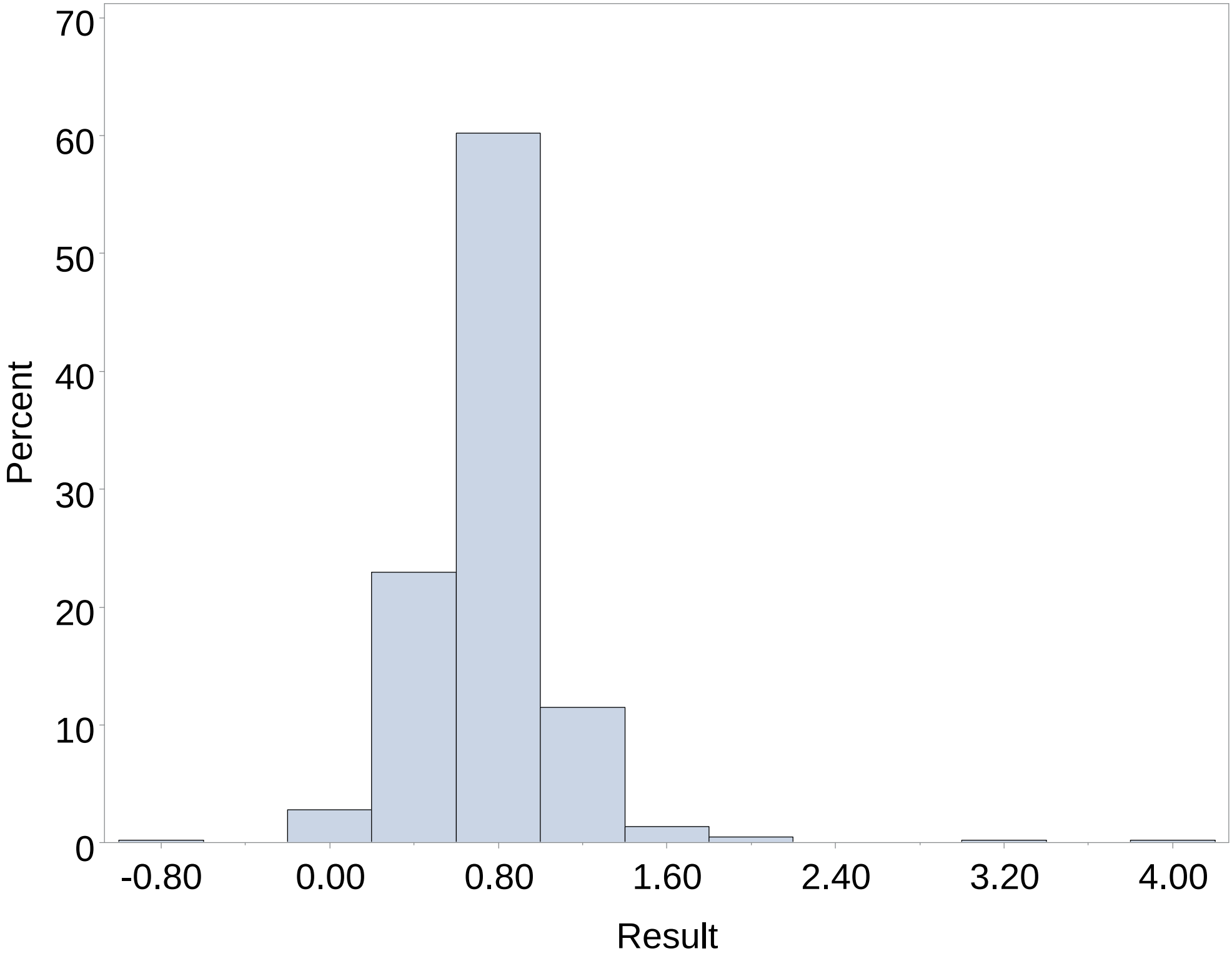
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	43.96115	**Pr > |t|**	<.0001
Sign	**M**	206	**Pr >= |M|**	<.0001
Signed Rank	**S**	45174	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.820
99%	1.550
95%	1.204
90%	1.054
75% Q3	0.859
50% Median	0.721
25% Q1	0.594
10%	0.402
5%	0.290
1%	-0.012
0% Min	-0.808

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.808	26062	1.550	26282
-0.048	26034	1.930	26199
-0.021	26146	2.181	26026
-0.012	26152	3.328	26362
-0.012	26145	3.820	26042


70
60
50
40
30
20
10
0
Percent
-0.80
0.00
0.80
1.60
2.40
3.20
4.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	1.03071806	**Sum Observations**	233.973
Std Deviation	0.3149382	**Variance**	0.09918607
Skewness	0.2965694	**Kurtosis**	-0.1551479
Uncorrected SS	263.576249	**Corrected SS**	22.416052
Coeff Variation	30.5552229	**Std Error Mean**	0.02090318

Basic Statistical Measures			
Location		**Variability**	
Mean	1.030718	**Std Deviation**	0.31494
Median	0.980000	**Variance**	0.09919
Mode	0.845000	**Range**	1.76600
		Interquartile Range	0.45800

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

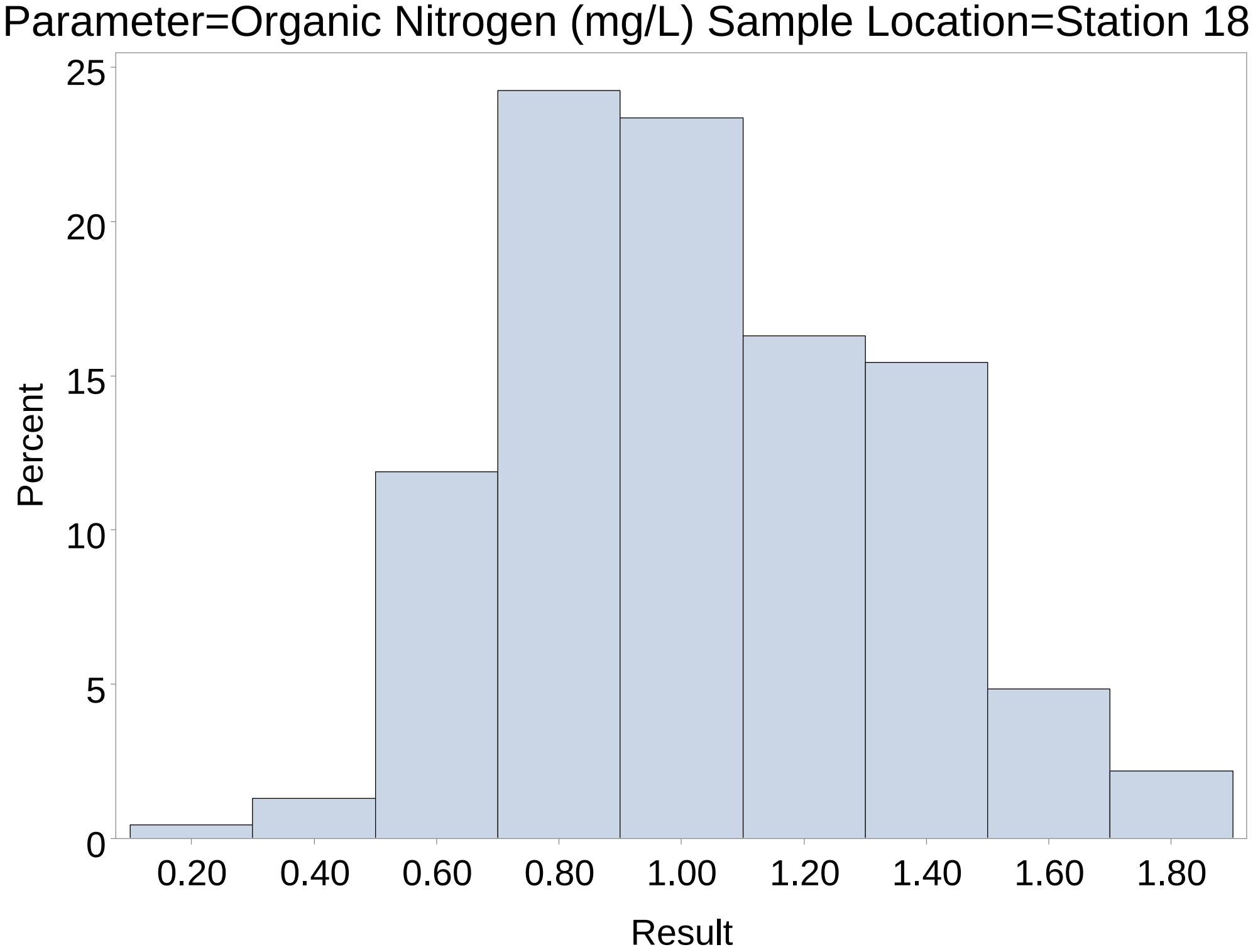
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.30915	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.885
99%	1.824
95%	1.593
90%	1.462
75% Q3	1.270
50% Median	0.980
25% Q1	0.812
10%	0.643
5%	0.587
1%	0.413
0% Min	0.119

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.119	26537	1.703	26612
0.305	26488	1.809	26555
0.413	26491	1.824	26414
0.416	26489	1.845	26496
0.502	26481	1.885	26412


Parameter=Organic Nitrogen (mg/L) Sample Location=Station 18
Percent
25
20
15
10
5
0
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	0.75442488	**Sum Observations**	321.385
Std Deviation	0.28865747	**Variance**	0.08332313
Skewness	1.61568698	**Kurtosis**	4.60859556
Uncorrected SS	277.873173	**Corrected SS**	35.4123321
Coeff Variation	38.2619232	**Std Error Mean**	0.0139855

Basic Statistical Measures			
Location		**Variability**	
Mean	0.754425	**Std Deviation**	0.28866
Median	0.704500	**Variance**	0.08332
Mode	1.010000	**Range**	1.95600
		Interquartile Range	0.28000

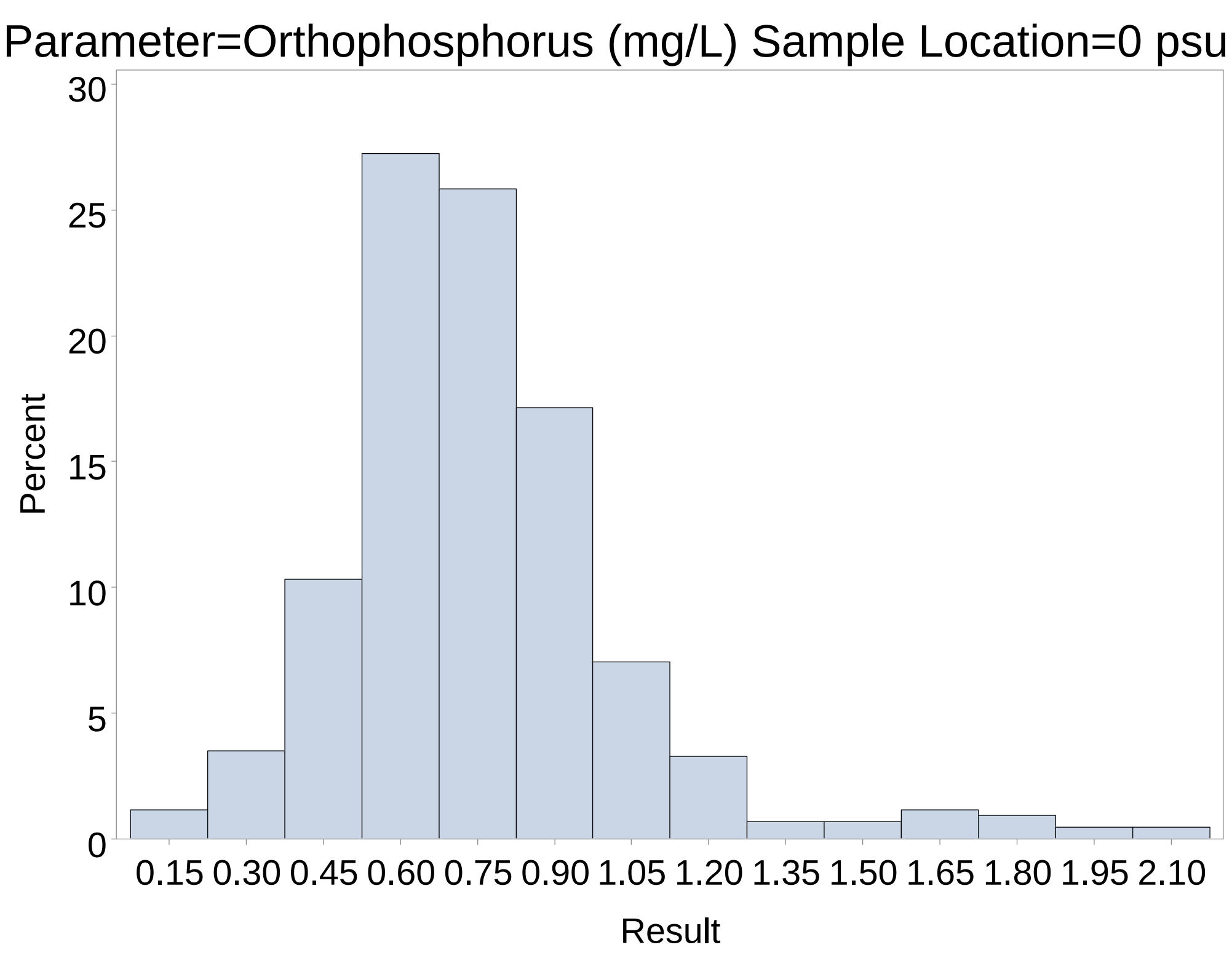
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	53.94336	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.0800
99%	1.8500
95%	1.2400
90%	1.0700
75% Q3	0.8640
50% Median	0.7045
25% Q1	0.5840
10%	0.4750
5%	0.3990
1%	0.1920
0% Min	0.1240

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.124	26707	1.85	26878
0.129	26672	1.95	26905
0.177	26688	1.98	26906
0.180	27011	2.08	26929
0.192	27018	2.08	26930


Parameter=Orthophosphorus (mg/L) Sample Location=0 psu
Percent
30
25
20
15
10
5
0
0.15 0.30 0.45 0.60 0.75 0.90 1.05 1.20 1.35 1.50 1.65 1.80 1.95 2.10
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=6 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.54276581	**Sum Observations**	231.761
Std Deviation	0.21346559	**Variance**	0.04556756
Skewness	2.386154	**Kurtosis**	10.9258614
Uncorrected SS	145.203727	**Corrected SS**	19.4117806
Coeff Variation	39.3292266	**Std Error Mean**	0.01033032

Basic Statistical Measures			
Location		**Variability**	
Mean	0.542766	**Std Deviation**	0.21347
Median	0.496000	**Variance**	0.04557
Mode	0.408000	**Range**	2.01000
		Interquartile Range	0.21900

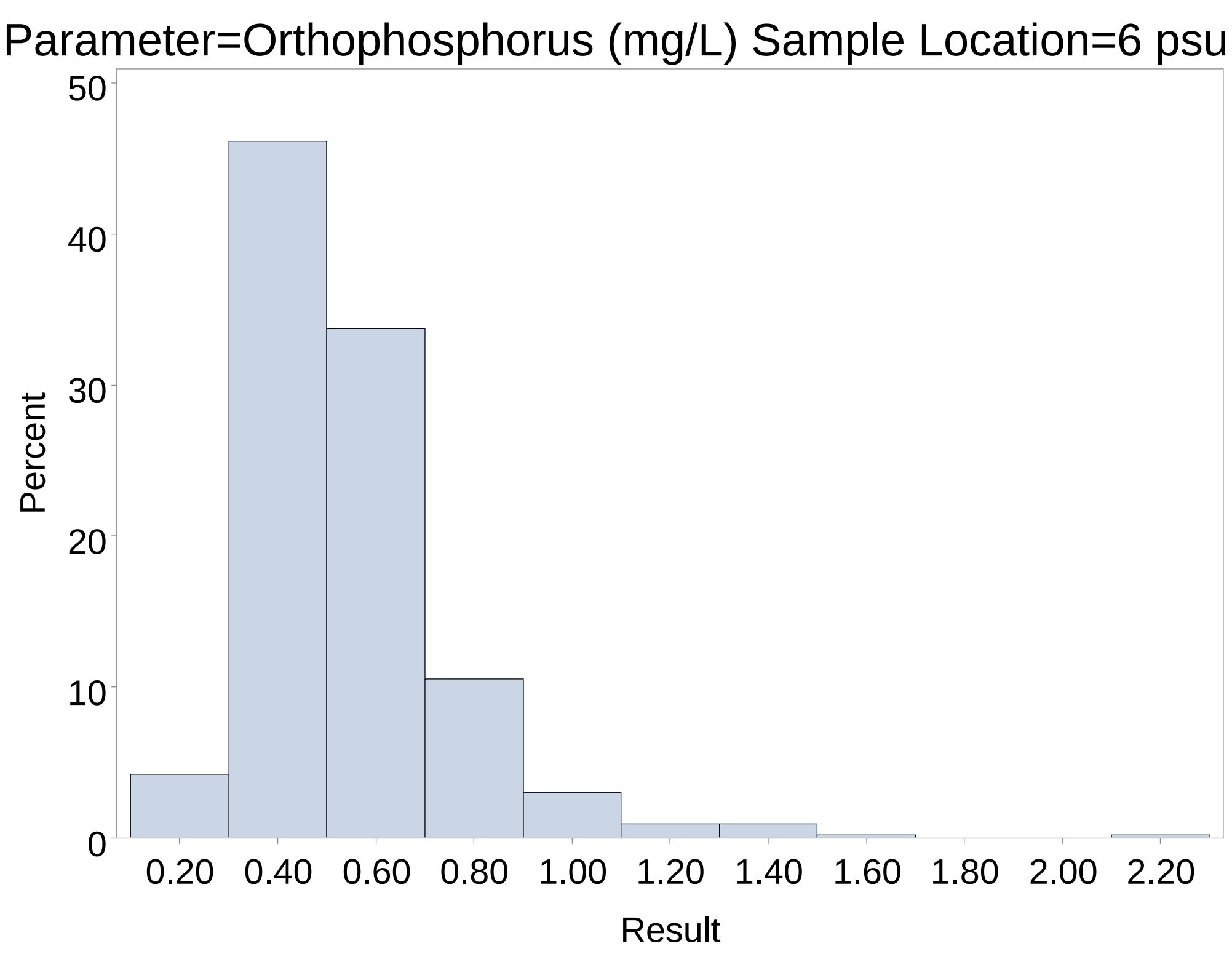
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	52.54102	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.190
99%	1.350
95%	0.945
90%	0.763
75% Q3	0.630
50% Median	0.496
25% Q1	0.411
10%	0.347
5%	0.307
1%	0.231
0% Min	0.180

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.180	27280	1.35	27334
0.184	27425	1.43	27333
0.188	27438	1.45	27322
0.230	27439	1.53	27357
0.231	27436	2.19	27189


Parameter=Orthophosphorus (mg/L) Sample Location=6 psu
Percent
50
40
30
20
10
0
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.3941733	**Sum Observations**	168.312
Std Deviation	0.15543016	**Variance**	0.02415853
Skewness	1.80710897	**Kurtosis**	4.92706804
Uncorrected SS	76.635632	**Corrected SS**	10.2915352
Coeff Variation	39.4319338	**Std Error Mean**	0.00752179

Basic Statistical Measures			
Location		**Variability**	
Mean	0.394173	**Std Deviation**	0.15543
Median	0.360000	**Variance**	0.02416
Mode	0.409000	**Range**	0.98700
		Interquartile Range	0.16700

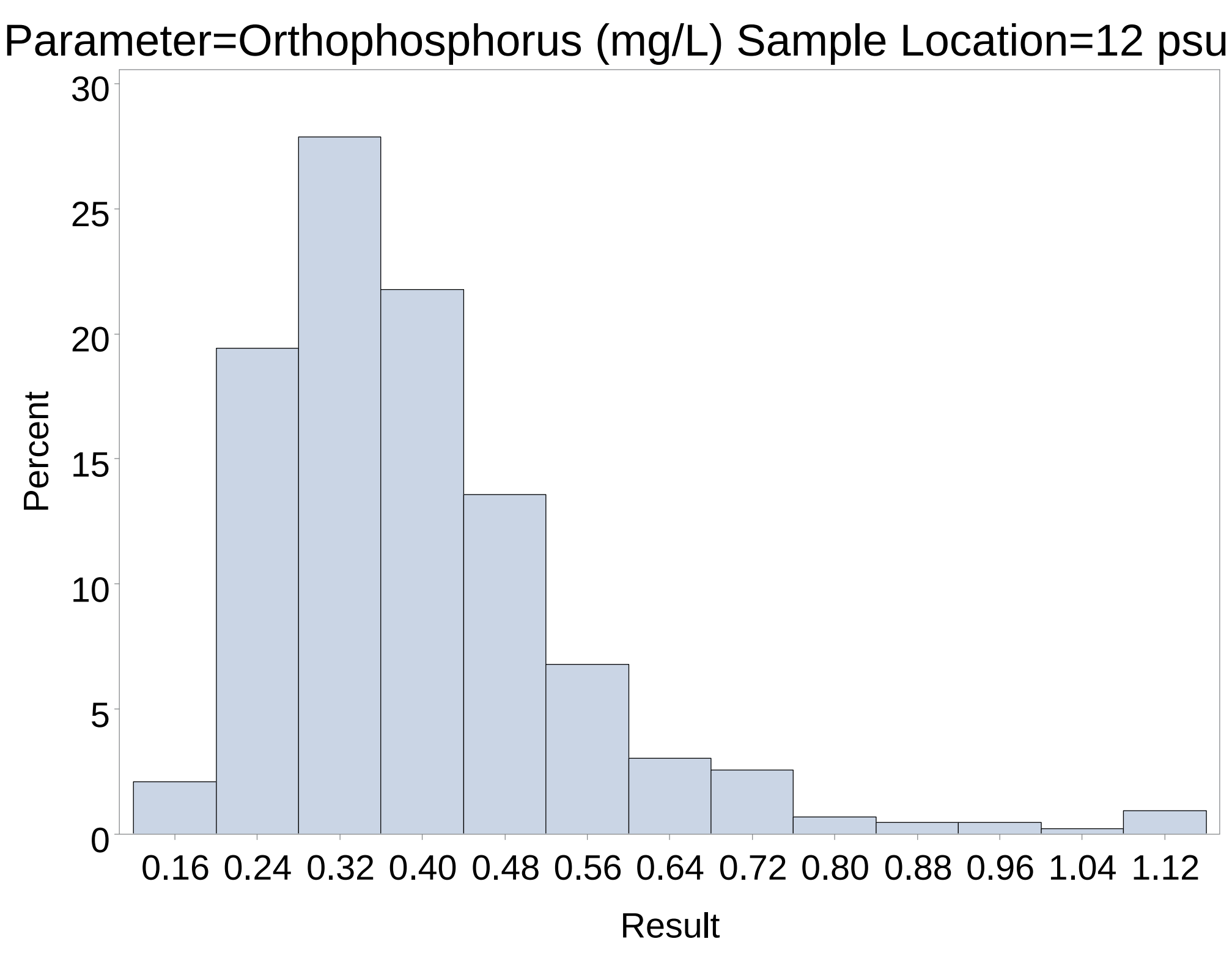
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	52.40417	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.140
99%	1.060
95%	0.693
90%	0.581
75% Q3	0.457
50% Median	0.360
25% Q1	0.290
10%	0.245
5%	0.220
1%	0.181
0% Min	0.153

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.153	27889	1.06	27748
0.168	27618	1.08	27761
0.175	27866	1.12	27784
0.181	27649	1.13	27760
0.181	27645	1.14	27749


Parameter=Orthophosphorus (mg/L) Sample Location=12 psu
Percent
30
25
20
15
10
5
0
0.16
0.24
0.32
0.40
0.48
0.56
0.64
0.72
0.80
0.88
0.96
1.04
1.12
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.24204215	**Sum Observations**	103.352
Std Deviation	0.12024206	**Variance**	0.01445815
Skewness	2.35006523	**Kurtosis**	9.36006149
Uncorrected SS	31.174714	**Corrected SS**	6.15917324
Coeff Variation	49.6781484	**Std Error Mean**	0.00581892

Basic Statistical Measures			
Location		**Variability**	
Mean	0.242042	**Std Deviation**	0.12024
Median	0.220000	**Variance**	0.01446
Mode	0.146000	**Range**	0.95800
		Interquartile Range	0.13300

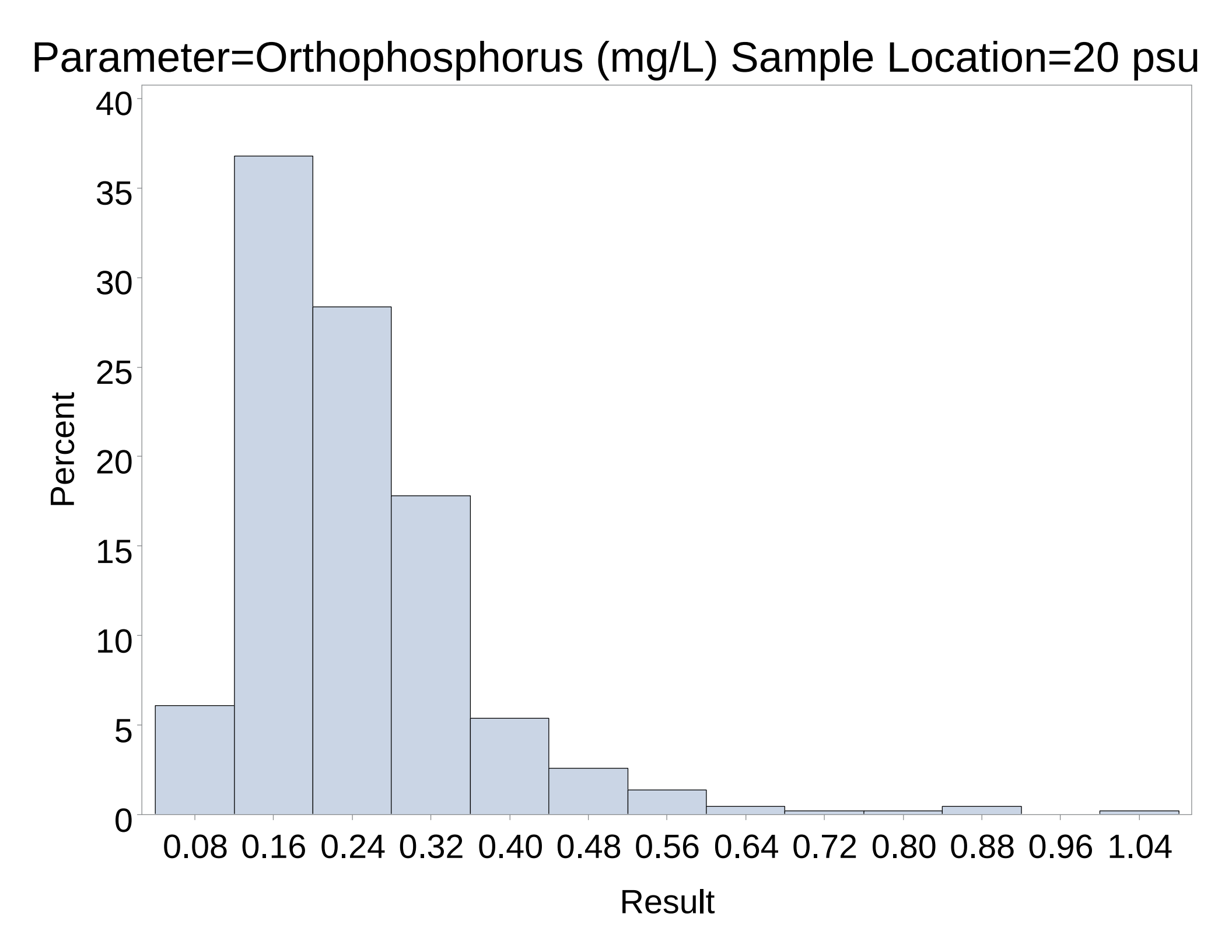
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.59571	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.030
99%	0.708
95%	0.448
90%	0.367
75% Q3	0.295
50% Median	0.220
25% Q1	0.162
10%	0.130
5%	0.116
1%	0.088
0% Min	0.072

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.072	28072	0.708	28211
0.073	28027	0.760	27968
0.075	28060	0.900	28176
0.080	28108	0.911	28175
0.088	28023	1.030	28046


Parameter=Orthophosphorus (mg/L) Sample Location=20 psu
Percent
40
35
30
25
20
15
10
5
0
0.08
0.16
0.24
0.32
0.40
0.48
0.56
0.64
0.72
0.80
0.88
0.96
1.04
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	0.79674449	**Sum Observations**	180.861
Std Deviation	0.30888658	**Variance**	0.09541092
Skewness	1.41000921	**Kurtosis**	2.02917706
Uncorrected SS	165.662873	**Corrected SS**	21.5628672
Coeff Variation	38.7685862	**Std Error Mean**	0.02050152

Basic Statistical Measures			
Location		**Variability**	
Mean	0.796744	**Std Deviation**	0.30889
Median	0.730000	**Variance**	0.09541
Mode	1.070000	**Range**	1.52000
		Interquartile Range	0.29800

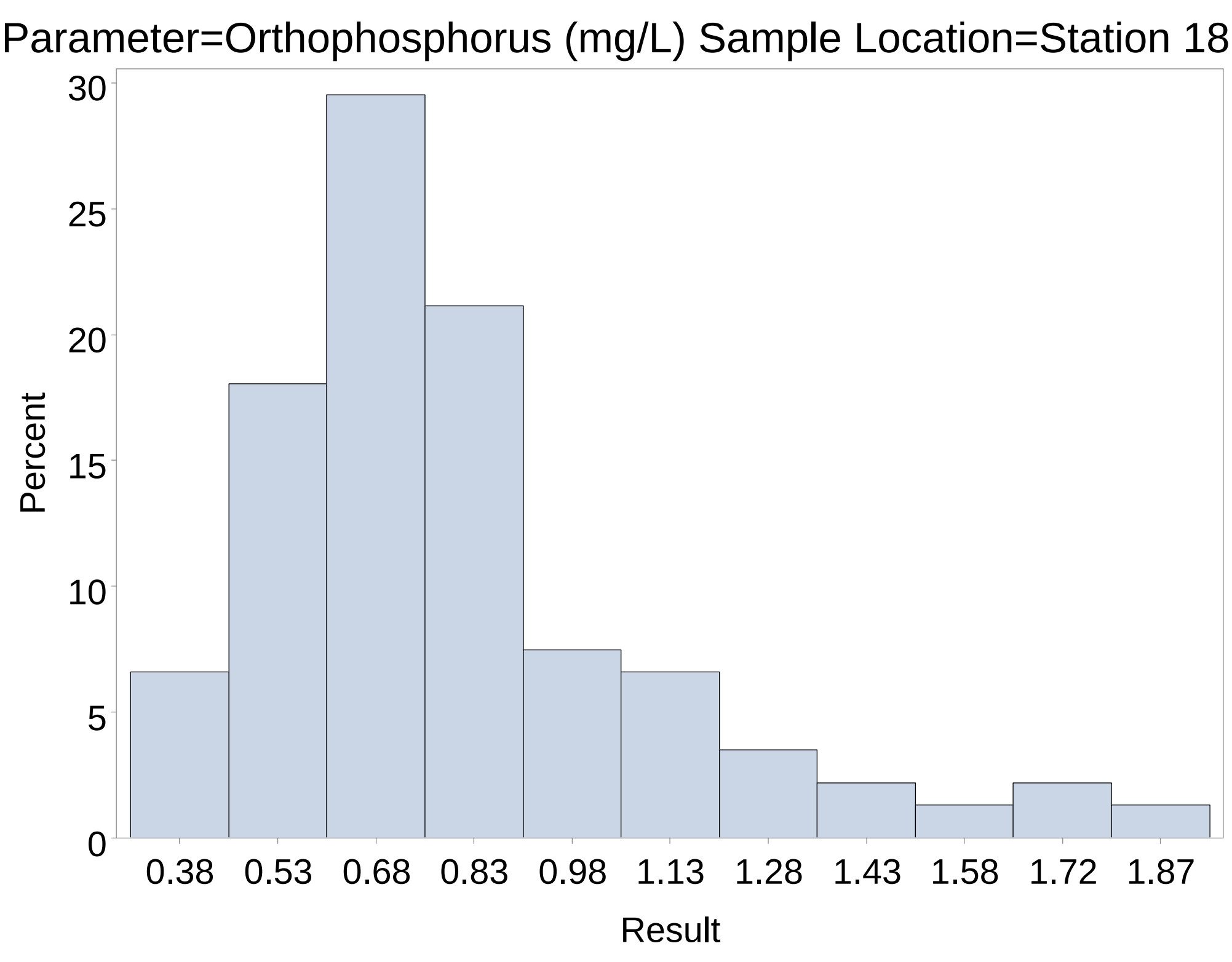
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.8627	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.850
99%	1.820
95%	1.480
90%	1.210
75% Q3	0.898
50% Median	0.730
25% Q1	0.600
10%	0.475
5%	0.444
1%	0.337
0% Min	0.330

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.330	28502	1.72	28385
0.333	28520	1.76	28413
0.337	28447	1.82	28438
0.382	28544	1.83	28415
0.391	28340	1.85	28386


Parameter=Orthophosphorus (mg/L) Sample Location=Station 18
Percent
30
25
20
15
10
5
0
0.38
0.53
0.68
0.83
0.98
1.13
1.28
1.43
1.58
1.72
1.87
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=0 psu

Moments			
N	421	**Sum Weights**	421
Mean	2.17180523	**Sum Observations**	914.33
Std Deviation	1.35736319	**Variance**	1.84243483
Skewness	4.75108605	**Kurtosis**	43.5782981
Uncorrected SS	2759.5693	**Corrected SS**	773.822628
Coeff Variation	62.4993058	**Std Error Mean**	0.06615383

Basic Statistical Measures			
Location		**Variability**	
Mean	2.171805	**Std Deviation**	1.35736
Median	1.800000	**Variance**	1.84243
Mode	1.300000	**Range**	16.80000
		Interquartile Range	1.40000

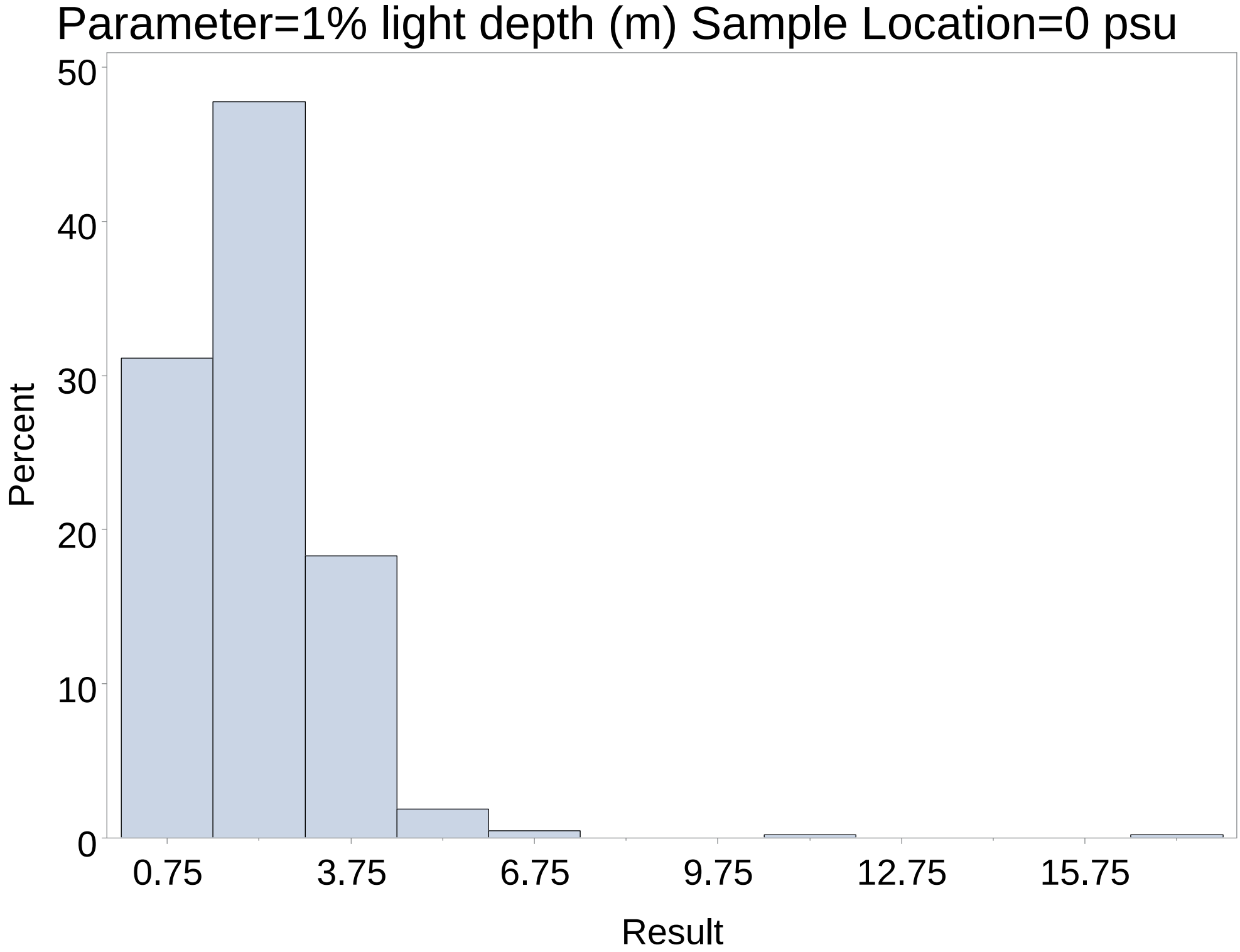
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.82962	**Pr > |t|**	<.0001
Sign	**M**	210.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44415.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.5
99%	5.9
95%	4.1
90%	3.7
75% Q3	2.7
50% Median	1.8
25% Q1	1.3
10%	1.1
5%	1.0
1%	0.8
0% Min	0.7

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	28686	5.9	28768
0.8	28746	6.0	28765
0.8	28723	6.3	28757
0.8	28687	11.7	28852
0.8	28615	17.5	28904


Parameter=1% light depth (m) Sample Location=0 psu
50
40
30
20
10
0
Percent
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=6 psu

Moments			
N	423	**Sum Weights**	423
Mean	2.19033097	**Sum Observations**	926.51
Std Deviation	1.13126502	**Variance**	1.27976055
Skewness	4.78292494	**Kurtosis**	36.0695037
Uncorrected SS	2569.4225	**Corrected SS**	540.058954
Coeff Variation	51.6481317	**Std Error Mean**	0.05500399

Basic Statistical Measures			
Location		**Variability**	
Mean	2.190331	**Std Deviation**	1.13127
Median	2.000000	**Variance**	1.27976
Mode	1.400000	**Range**	11.70000
		Interquartile Range	0.92000

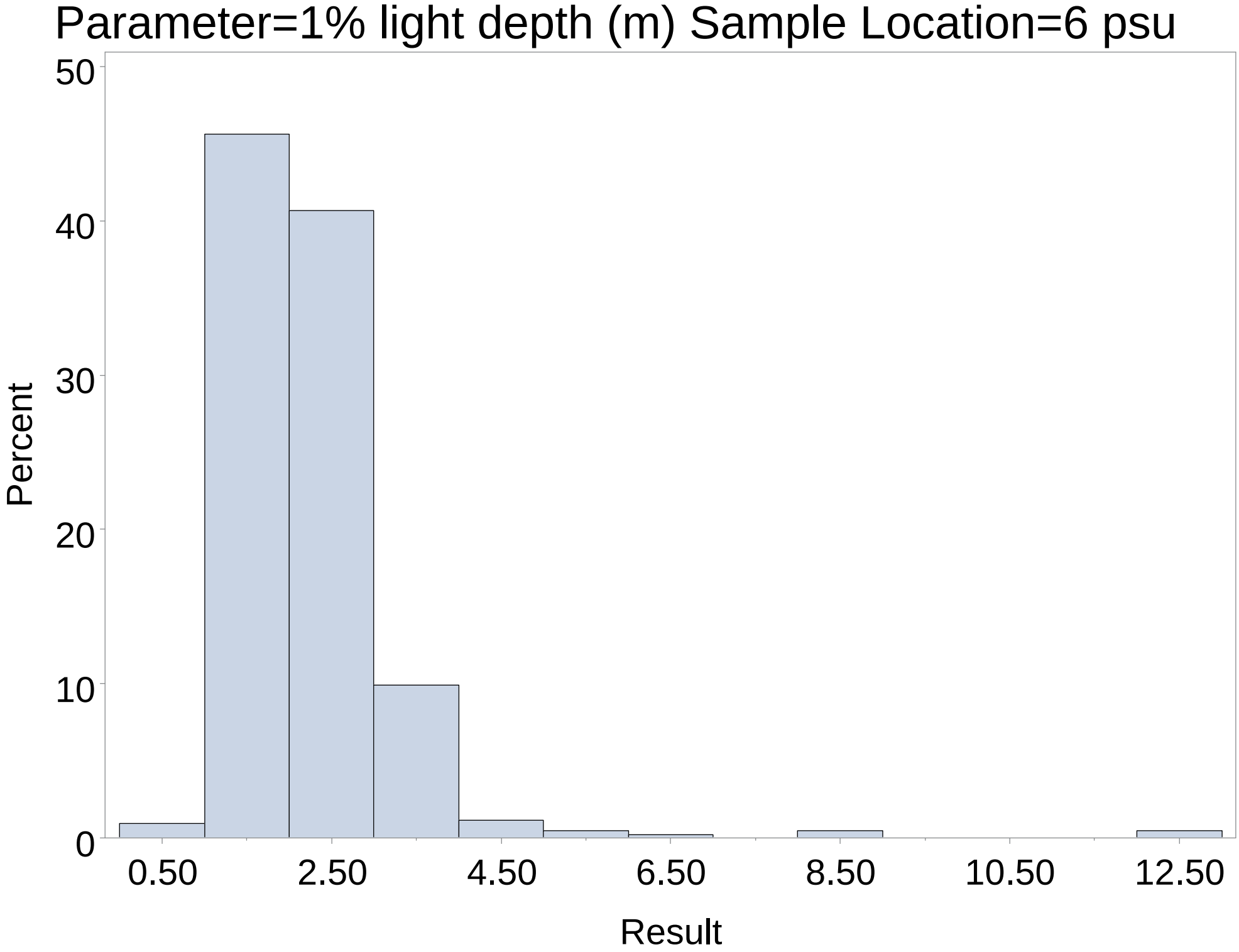
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	39.82131	**Pr > |t|**	<.0001
Sign	**M**	211.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44838	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.50
99%	6.60
95%	3.50
90%	3.10
75% Q3	2.50
50% Median	2.00
25% Q1	1.58
10%	1.30
5%	1.20
1%	1.00
0% Min	0.80

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.8	29107	6.6	29258
0.9	29227	8.5	29182
0.9	29167	8.8	29257
0.9	29144	12.4	29274
1.0	29062	12.5	29273


Parameter=1% light depth (m) Sample Location=6 psu
50
40
30
20
10
0
Percent
0.50
2.50
4.50
6.50
8.50
10.50
12.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=12 psu

Moments			
N	424	**Sum Weights**	424
Mean	2.61584906	**Sum Observations**	1109.12
Std Deviation	1.94824592	**Variance**	3.79566216
Skewness	13.7044803	**Kurtosis**	236.890516
Uncorrected SS	4506.8556	**Corrected SS**	1605.56509
Coeff Variation	74.4785298	**Std Error Mean**	0.09461519

Basic Statistical Measures			
Location		**Variability**	
Mean	2.615849	**Std Deviation**	1.94825
Median	2.400000	**Variance**	3.79566
Mode	2.000000	**Range**	36.40000
		Interquartile Range	0.92500

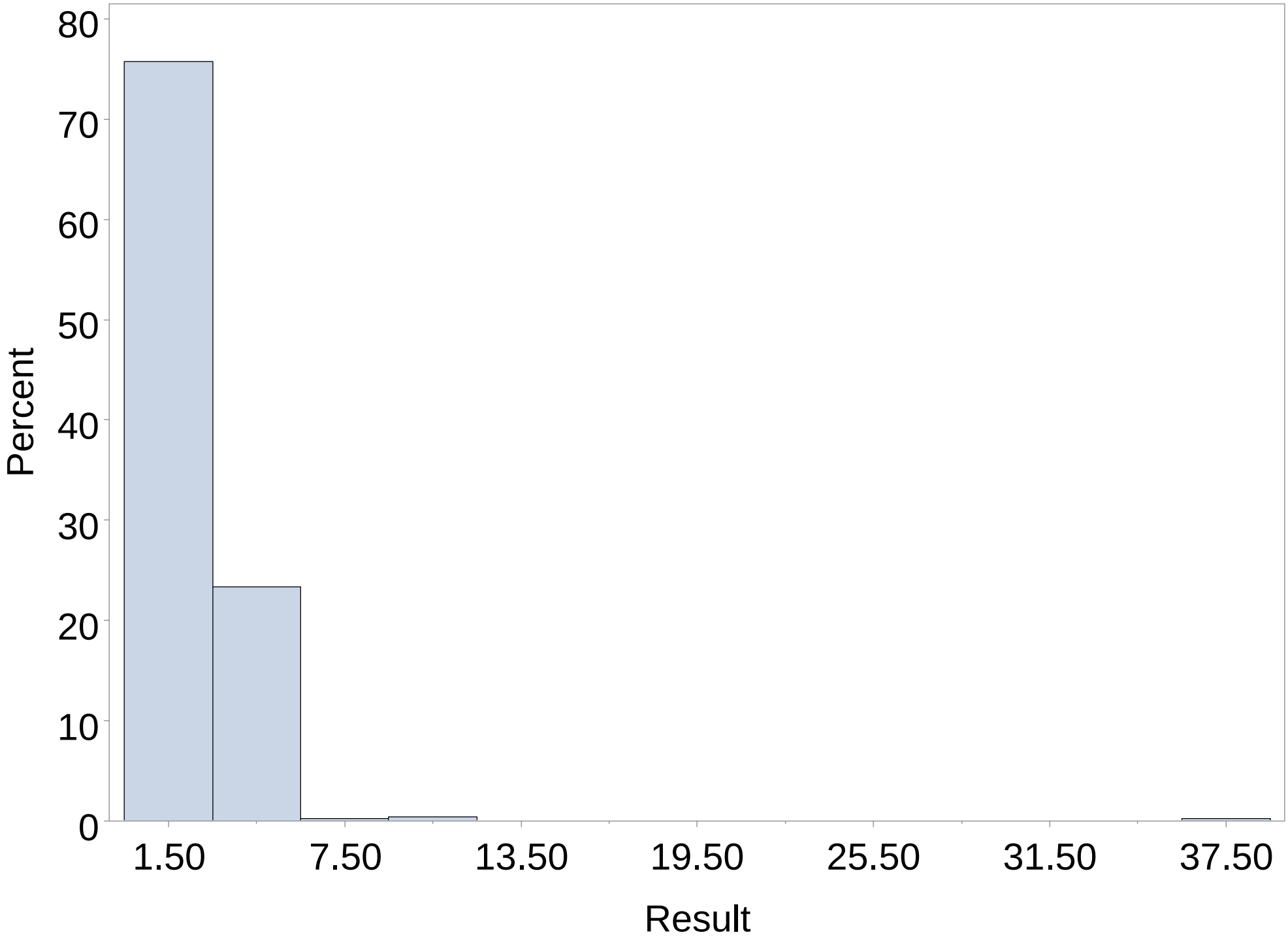
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.64724	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37.200
99%	5.500
95%	4.100
90%	3.500
75% Q3	2.910
50% Median	2.400
25% Q1	1.985
10%	1.600
5%	1.400
1%	1.100
0% Min	0.800

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.8	29531	5.5	29597
0.8	29530	7.9	29605
1.0	29535	9.5	29753
1.0	29520	11.9	29747
1.1	29699	37.2	29697


Parameter=1% light depth (m) Sample Location=12 psu
Percent
80
70
60
50
40
30
20
10
0
1.50
7.50
13.50
19.50
25.50
31.50
37.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=20 psu

Moments			
N	424	**Sum Weights**	424
Mean	3.21818396	**Sum Observations**	1364.51
Std Deviation	1.10786881	**Variance**	1.22737329
Skewness	5.79906934	**Kurtosis**	74.0919275
Uncorrected SS	4910.4231	**Corrected SS**	519.178902
Coeff Variation	34.4252789	**Std Error Mean**	0.05380287

Basic Statistical Measures			
Location		**Variability**	
Mean	3.218184	**Std Deviation**	1.10787
Median	3.200000	**Variance**	1.22737
Mode	3.300000	**Range**	16.60000
		Interquartile Range	1.14000

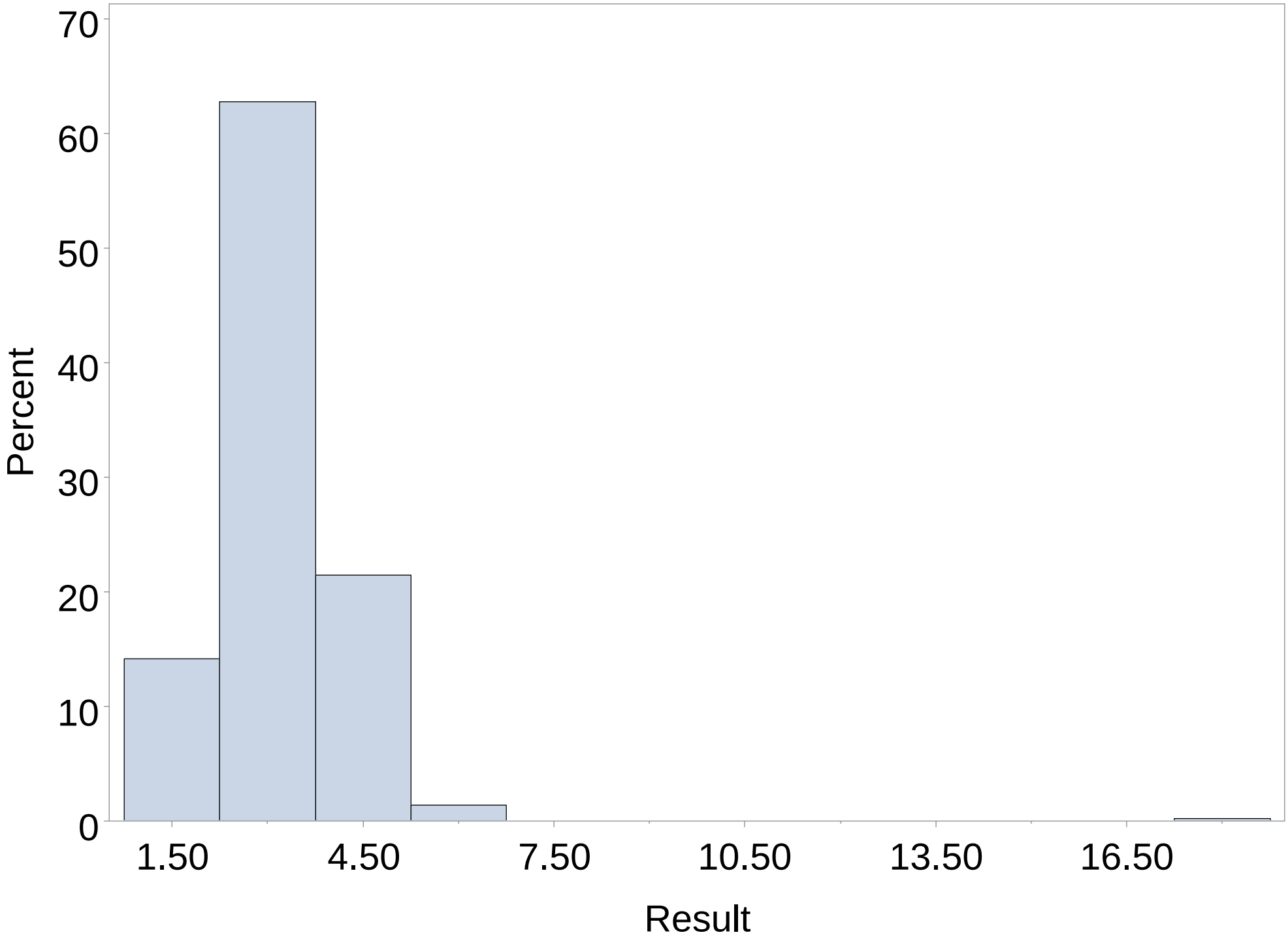
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	59.81436	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.00
99%	5.80
95%	4.60
90%	4.30
75% Q3	3.70
50% Median	3.20
25% Q1	2.56
10%	2.10
5%	1.90
1%	1.69
0% Min	1.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.40	30049	5.8	30021
1.50	29910	5.9	29871
1.60	29994	6.0	30002
1.60	29840	6.4	30121
1.69	30210	18.0	30029


Parameter=1% light depth (m) Sample Location=20 psu
Percent
70
60
50
40
30
20
10
0
1.50
4.50
7.50
10.50
13.50
16.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=Station 18

Moments			
N	211	**Sum Weights**	211
Mean	2.3985782	**Sum Observations**	506.1
Std Deviation	1.51340325	**Variance**	2.2903894
Skewness	4.87876195	**Kurtosis**	35.3162377
Uncorrected SS	1694.9022	**Corrected SS**	480.981773
Coeff Variation	63.0958478	**Std Error Mean**	0.10418698

Basic Statistical Measures			
Location		**Variability**	
Mean	2.398578	**Std Deviation**	1.51340
Median	2.000000	**Variance**	2.29039
Mode	1.400000	**Range**	14.75000
		Interquartile Range	1.50000

Note: The mode displayed is the smallest of 4 modes with a count of 12.

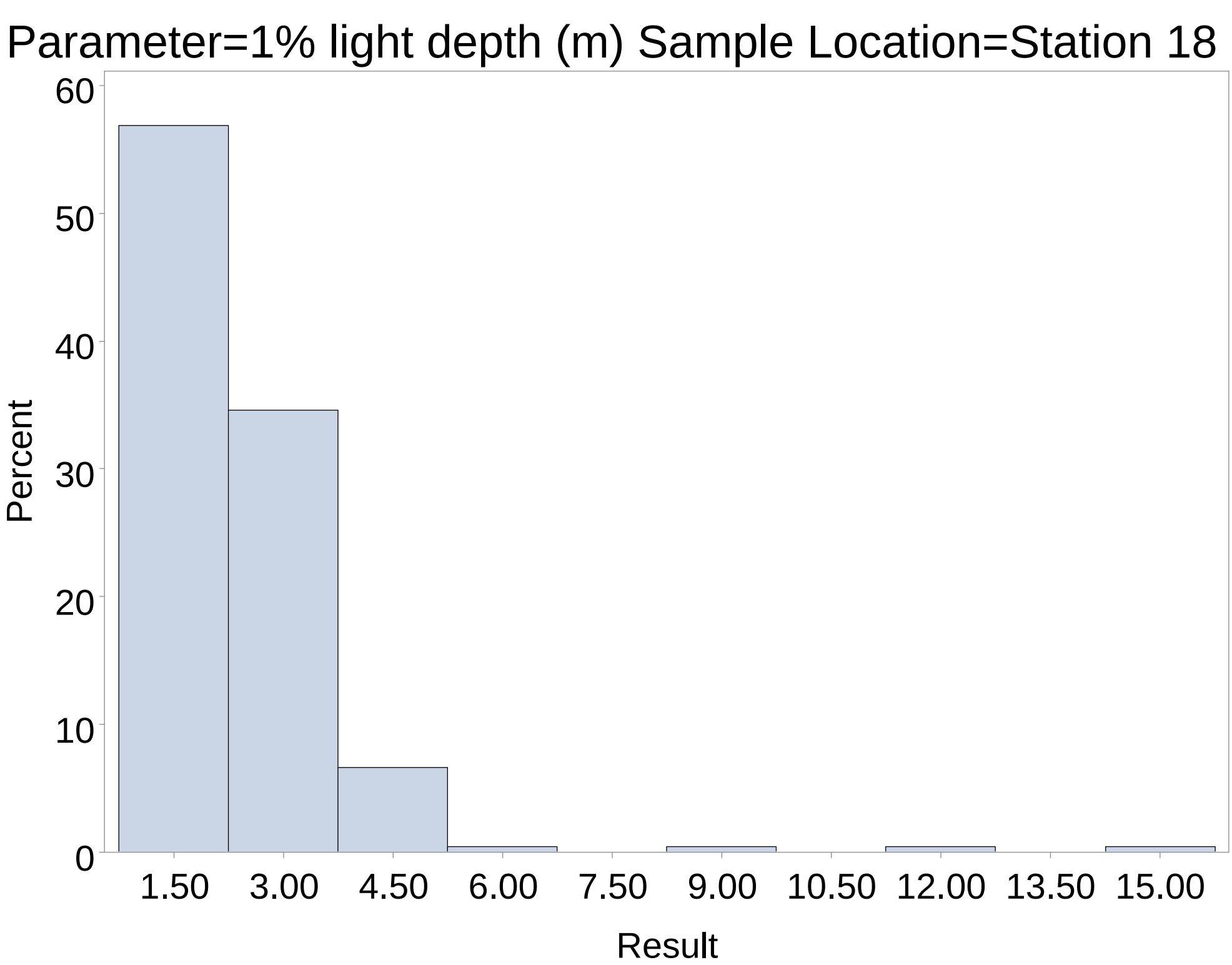
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.02186	**Pr > |t|**	<.0001
Sign	**M**	105.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11183	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.70
99%	9.50
95%	4.10
90%	3.70
75% Q3	3.00
50% Median	2.00
25% Q1	1.50
10%	1.30
5%	1.20
1%	1.07
0% Min	0.95

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.95	30441	5.1	30246
1.00	30312	5.3	30401
1.07	30427	9.5	30334
1.10	30394	11.5	30254
1.10	30393	15.7	30335


Parameter=1% light depth (m) Sample Location=Station 18
Percent
60
50
40
30
20
10
0
1.50
3.00
4.50
6.00
7.50
9.00
10.50
12.00
13.50
15.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=0 psu

Moments			
N	421	**Sum Weights**	421
Mean	1.08543943	**Sum Observations**	456.97
Std Deviation	0.68016742	**Variance**	0.46262772
Skewness	4.76573341	**Kurtosis**	43.9812422
Uncorrected SS	690.3169	**Corrected SS**	194.303644
Coeff Variation	62.662863	**Std Error Mean**	0.03314933

Basic Statistical Measures			
Location		**Variability**	
Mean	1.085439	**Std Deviation**	0.68017
Median	0.900000	**Variance**	0.46263
Mode	0.800000	**Range**	8.43000
		Interquartile Range	0.71000

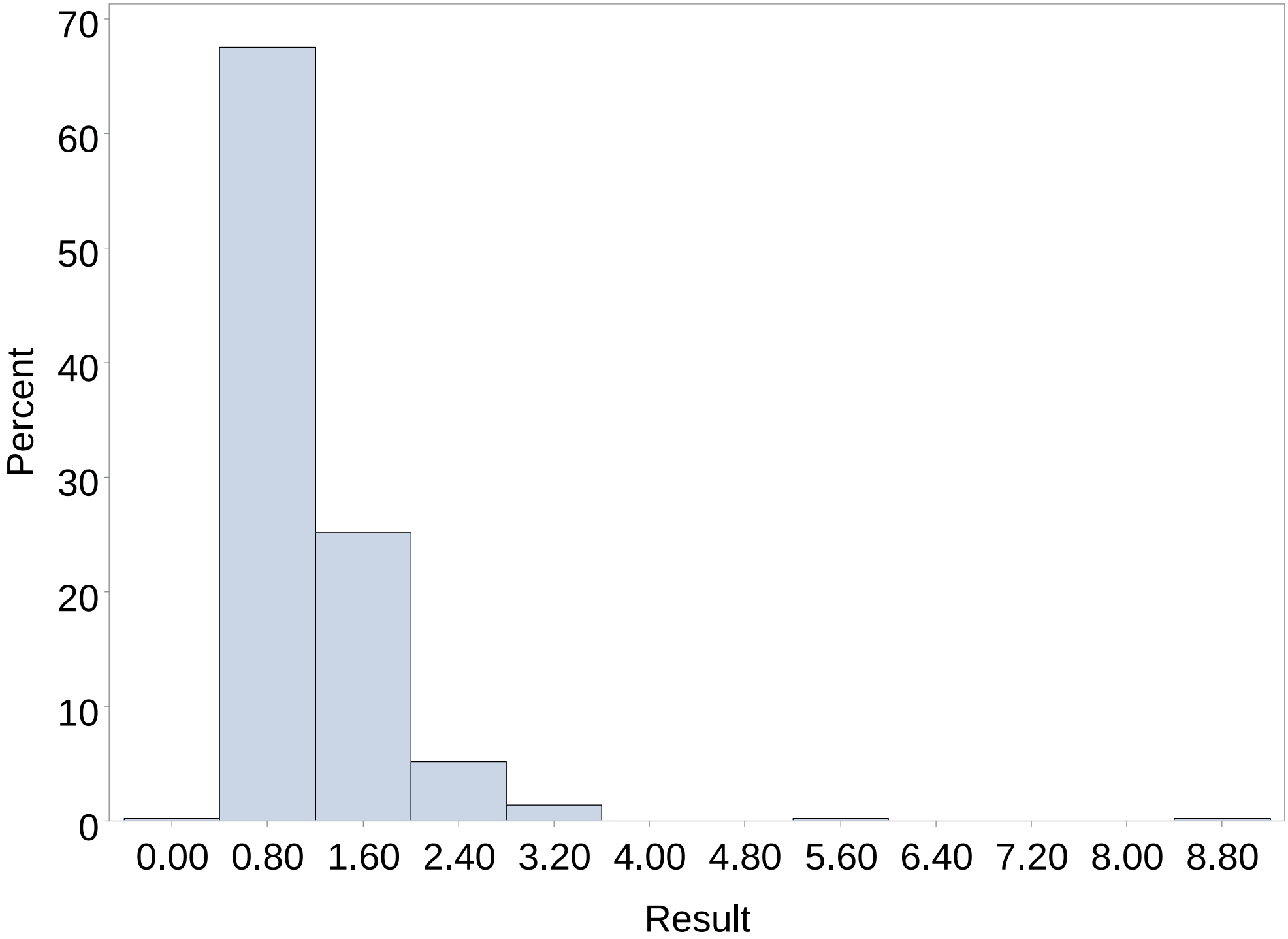
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.74393	**Pr > |t|**	<.0001
Sign	**M**	210.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44415.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.80
99%	3.00
95%	2.00
90%	1.80
75% Q3	1.38
50% Median	0.90
25% Q1	0.67
10%	0.53
5%	0.48
1%	0.42
0% Min	0.37

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.37	30589	3.0	30664
0.40	30626	3.0	30668
0.40	30590	3.2	30660
0.40	30518	5.8	30755
0.42	30649	8.8	30807


Parameter=10% light depth (m) Sample Location=0 psu
Percent
70
60
50
40
30
20
10
0
0.00
0.80
1.60
2.40
3.20
4.00
4.80
5.60
6.40
7.20
8.00
8.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=6 psu

Moments			
N	423	**Sum Weights**	423
Mean	1.09565012	**Sum Observations**	463.46
Std Deviation	0.5655568	**Variance**	0.31985449
Skewness	4.76270394	**Kurtosis**	35.6283138
Uncorrected SS	642.7686	**Corrected SS**	134.978596
Coeff Variation	51.6183762	**Std Error Mean**	0.02749831

Basic Statistical Measures			
Location		**Variability**	
Mean	1.095650	**Std Deviation**	0.56556
Median	1.000000	**Variance**	0.31985
Mode	0.900000	**Range**	5.81000
		Interquartile Range	0.52000

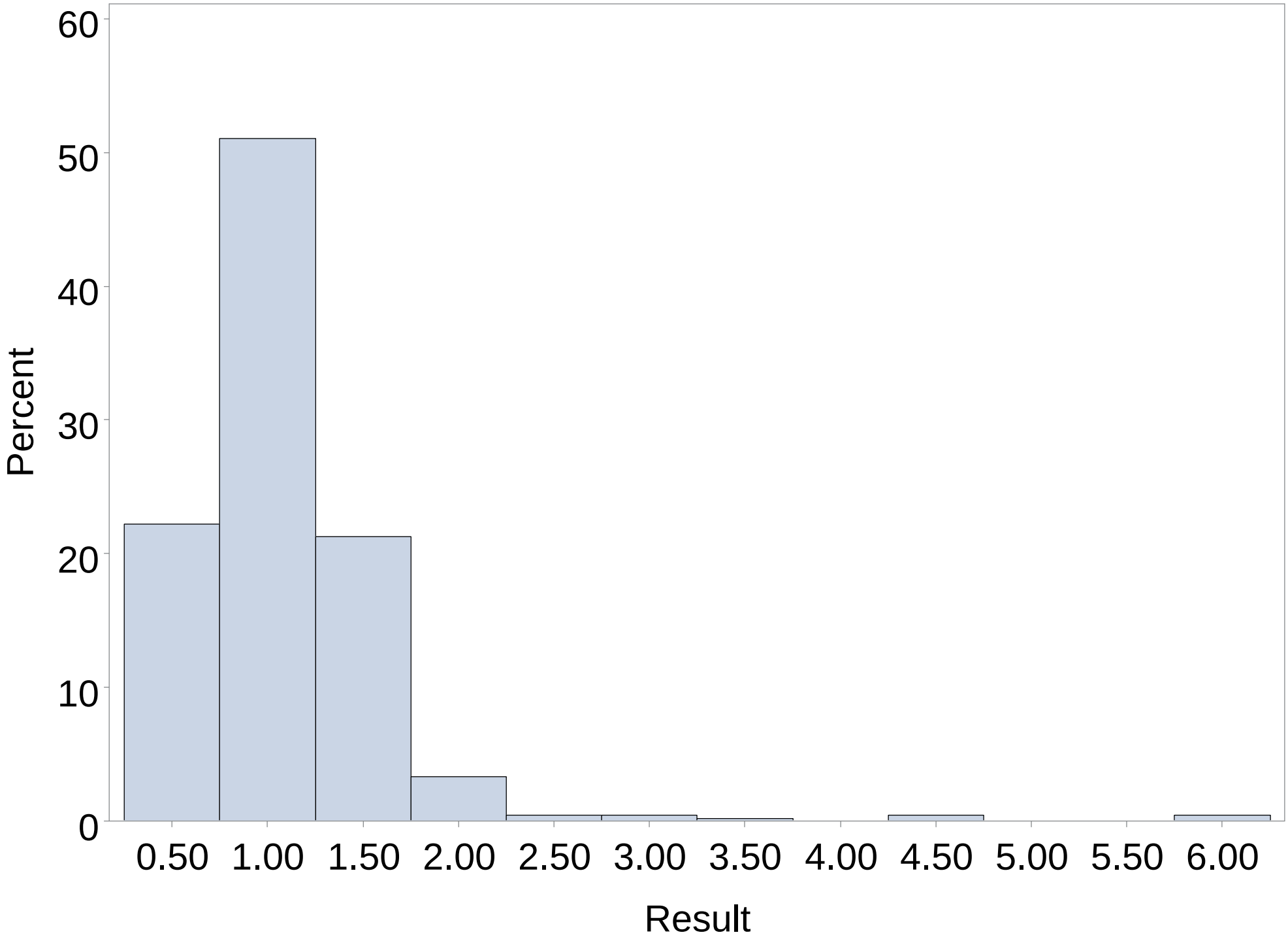
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	39.84427	**Pr > |t|**	<.0001
Sign	**M**	211.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44838	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.20
99%	3.30
95%	1.78
90%	1.53
75% Q3	1.30
50% Median	1.00
25% Q1	0.78
10%	0.63
5%	0.59
1%	0.49
0% Min	0.39

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.39	31010	3.3	31161
0.40	31130	4.3	31085
0.45	31047	4.4	31160
0.46	31070	6.2	31176
0.49	30965	6.2	31177


Parameter=10% light depth (m) Sample Location=6 psu
Percent
60
50
40
30
20
10
0
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=12 psu

Moments			
N	424	**Sum Weights**	424
Mean	1.30886792	**Sum Observations**	554.96
Std Deviation	0.97326248	**Variance**	0.94723985
Skewness	13.7316026	**Kurtosis**	237.645024
Uncorrected SS	1127.0518	**Corrected SS**	400.682457
Coeff Variation	74.3591052	**Std Error Mean**	0.0472658

Basic Statistical Measures			
Location		**Variability**	
Mean	1.308868	**Std Deviation**	0.97326
Median	1.200000	**Variance**	0.94724
Mode	1.300000	**Range**	18.20000
		Interquartile Range	0.50000

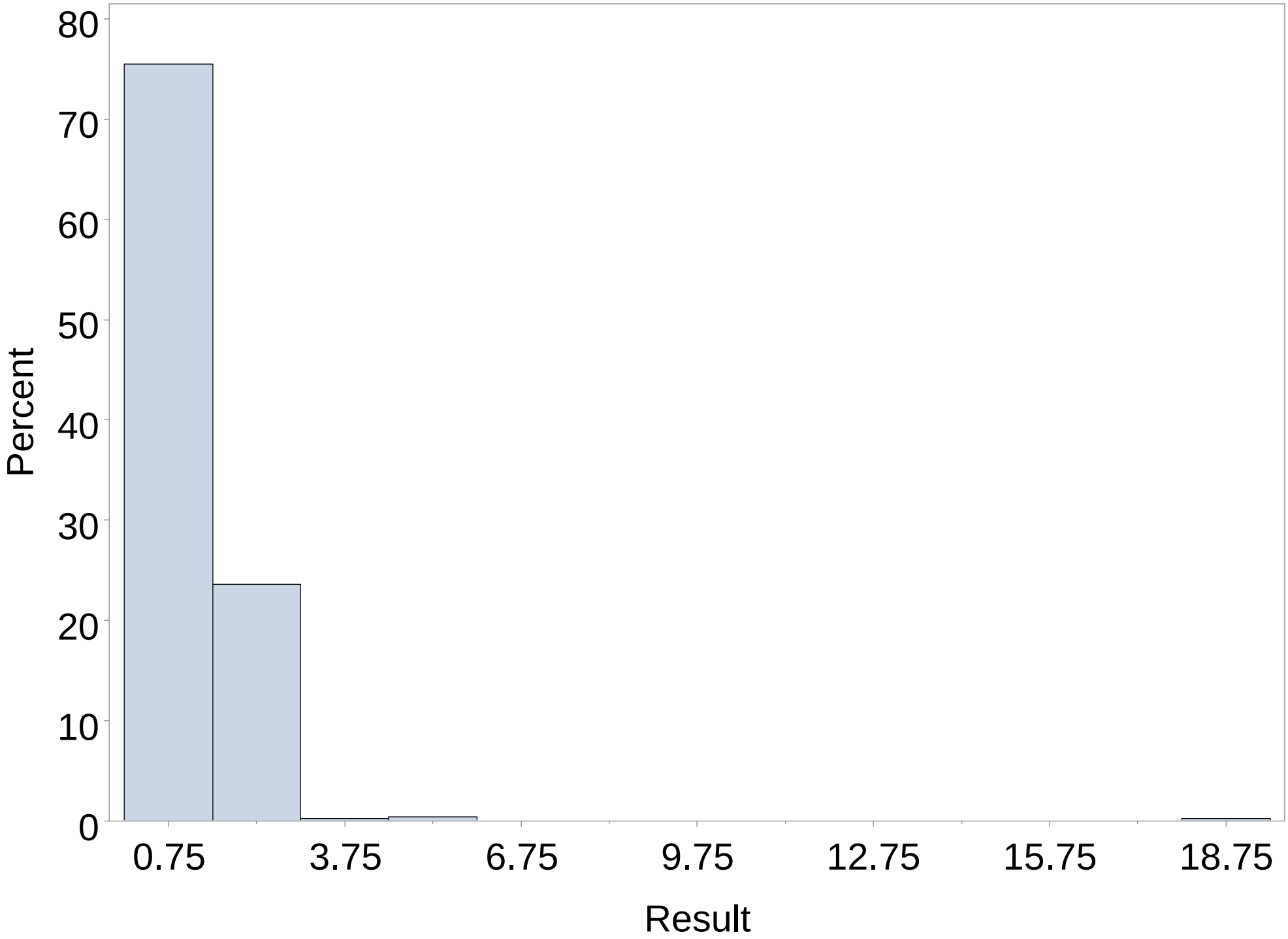
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.69165	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.60
99%	2.70
95%	2.00
90%	1.80
75% Q3	1.49
50% Median	1.20
25% Q1	0.99
10%	0.80
5%	0.70
1%	0.54
0% Min	0.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	31434	2.7	31500
0.40	31433	3.9	31508
0.48	31423	4.8	31656
0.52	31438	5.9	31650
0.54	31497	18.6	31600


Parameter=10% light depth (m) Sample Location=12 psu
Percent
80
70
60
50
40
30
20
10
0
0.75
3.75
6.75
9.75
12.75
15.75
18.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=20 psu

Moments			
N	424	**Sum Weights**	424
Mean	1.60971698	**Sum Observations**	682.52
Std Deviation	0.5541585	**Variance**	0.30709165
Skewness	5.79131374	**Kurtosis**	73.9418285
Uncorrected SS	1228.5638	**Corrected SS**	129.899766
Coeff Variation	34.4258344	**Std Error Mean**	0.02691232

Basic Statistical Measures			
Location		**Variability**	
Mean	1.609717	**Std Deviation**	0.55416
Median	1.600000	**Variance**	0.30709
Mode	1.700000	**Range**	8.30000
		Interquartile Range	0.56500

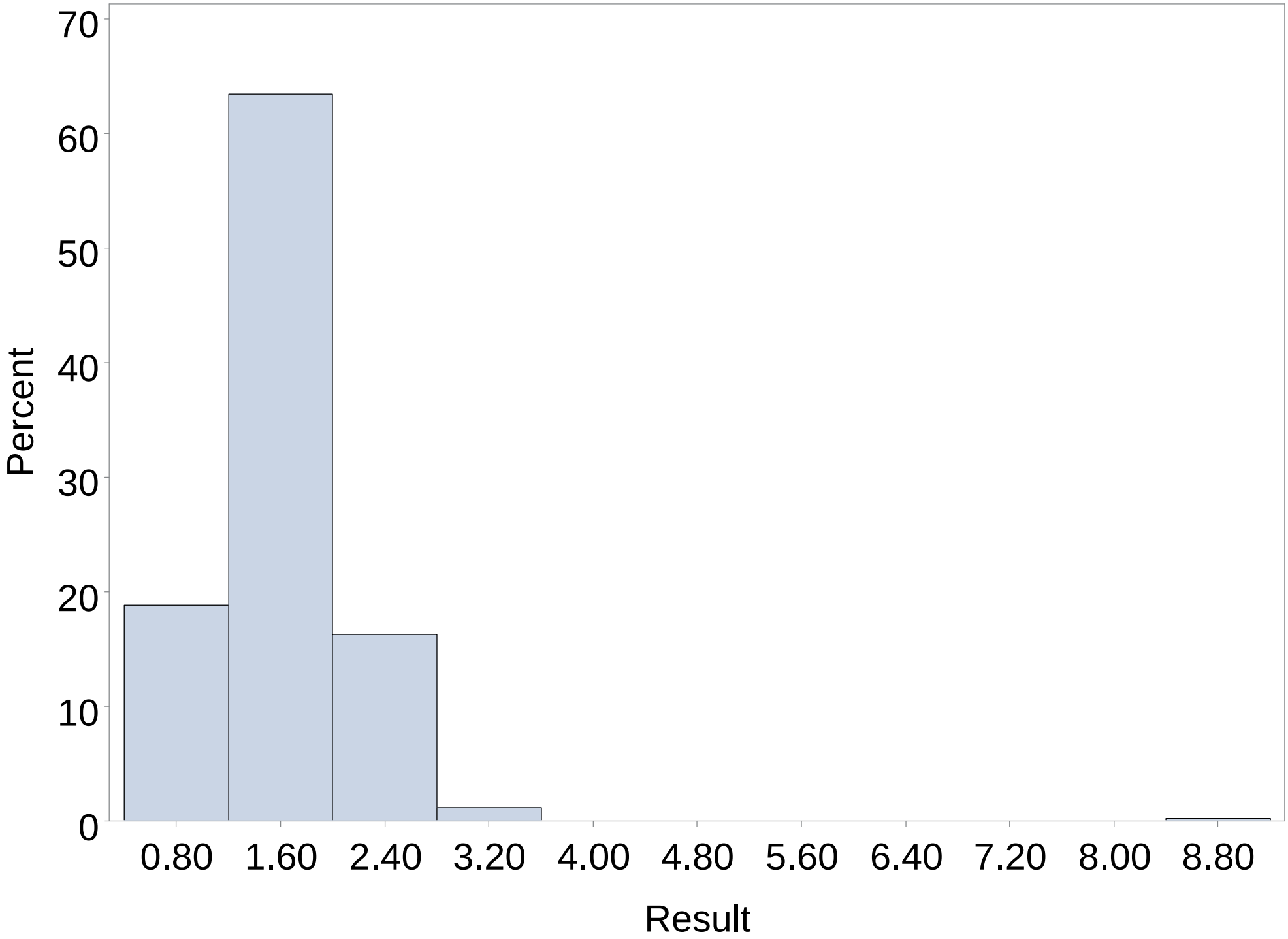
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	59.81339	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.000
99%	2.900
95%	2.300
90%	2.170
75% Q3	1.860
50% Median	1.600
25% Q1	1.295
10%	1.060
5%	0.970
1%	0.800
0% Min	0.700

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.70	31952	2.90	31924
0.75	31813	2.95	31774
0.79	31897	2.99	31905
0.80	32058	3.20	32024
0.80	31956	9.00	31932


Parameter=10% light depth (m) Sample Location=20 psu
Percent
70
60
50
40
30
20
10
0
0.80
1.60
2.40
3.20
4.00
4.80
5.60
6.40
7.20
8.00
8.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=Station 18

Moments			
N	211	**Sum Weights**	211
Mean	1.20090047	**Sum Observations**	253.39
Std Deviation	0.75530798	**Variance**	0.57049014
Skewness	4.82174336	**Kurtosis**	34.5636932
Uncorrected SS	424.0991	**Corrected SS**	119.802929
Coeff Variation	62.8951351	**Std Error Mean**	0.05199755

Basic Statistical Measures			
Location		**Variability**	
Mean	1.200900	**Std Deviation**	0.75531
Median	1.000000	**Variance**	0.57049
Mode	0.800000	**Range**	7.32000
		Interquartile Range	0.70000

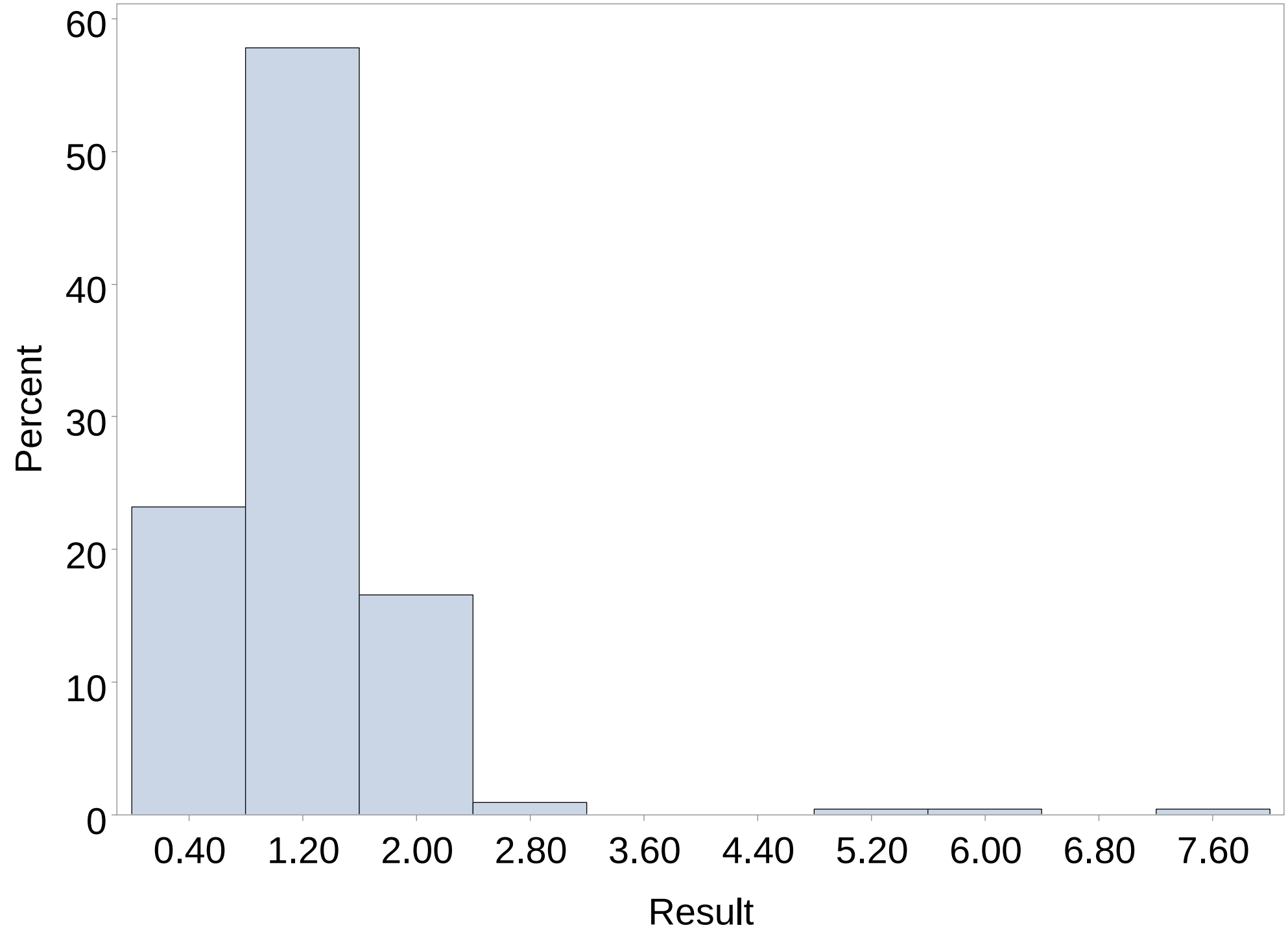
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.09533	**Pr > |t|**	<.0001
Sign	**M**	105.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11183	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.80
99%	4.80
95%	2.05
90%	1.80
75% Q3	1.50
50% Median	1.00
25% Q1	0.80
10%	0.67
5%	0.60
1%	0.50
0% Min	0.48

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.48	32344	2.6	32149
0.50	32297	2.7	32304
0.50	32296	4.8	32237
0.50	32221	5.7	32157
0.50	32215	7.8	32238


Parameter=10% light depth (m) Sample Location=Station 18
Percent
60
50
40
30
20
10
0
0.40
1.20
2.00
2.80
3.60
4.40
5.20
6.00
6.80
7.60
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=0 psu

Moments			
N	421	**Sum Weights**	421
Mean	0.32800475	**Sum Observations**	138.09
Std Deviation	0.2069203	**Variance**	0.04281601
Skewness	4.53014377	**Kurtosis**	39.8195286
Uncorrected SS	63.2769	**Corrected SS**	17.982724
Coeff Variation	63.0845429	**Std Error Mean**	0.01008468

Basic Statistical Measures			
Location		**Variability**	
Mean	0.328005	**Std Deviation**	0.20692
Median	0.300000	**Variance**	0.04282
Mode	0.300000	**Range**	2.50000
		Interquartile Range	0.20000

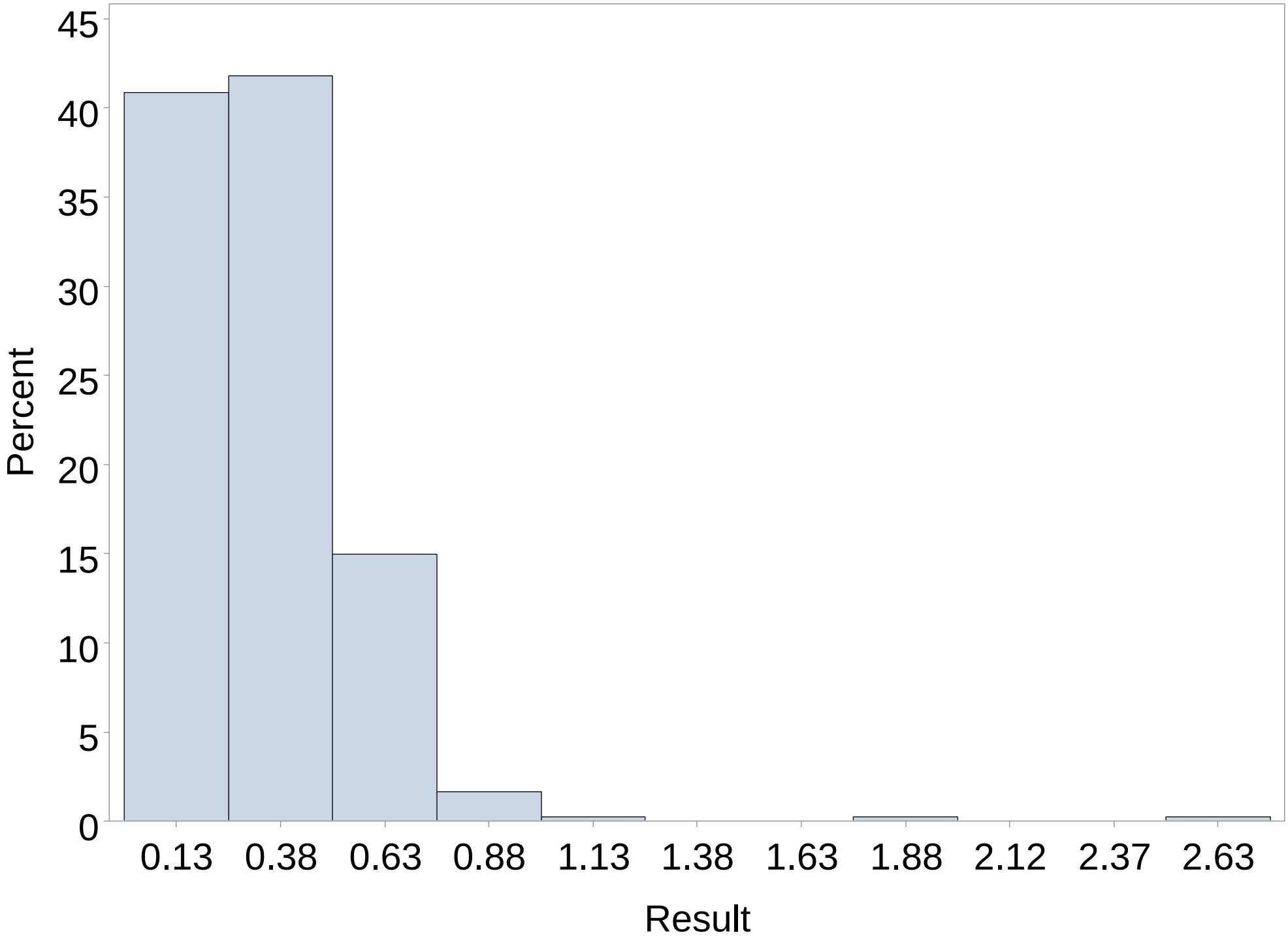
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.52506	**Pr > |t|**	<.0001
Sign	**M**	210.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44415.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.60
99%	0.90
95%	0.60
90%	0.58
75% Q3	0.40
50% Median	0.30
25% Q1	0.20
10%	0.16
5%	0.14
1%	0.12
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	32612	0.9	32571
0.11	32492	0.9	32574
0.12	32529	1.0	32563
0.12	32493	1.8	32658
0.12	32421	2.6	32710


Parameter=50% light depth (m) Sample Location=0 psu
Percent
45
40
35
30
25
20
15
10
5
0
0.13
0.38
0.63
0.88
1.13
1.38
1.63
1.88
2.12
2.37
2.63
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=6 psu

Moments			
N	423	**Sum Weights**	423
Mean	0.33158392	**Sum Observations**	140.26
Std Deviation	0.17194344	**Variance**	0.02956455
Skewness	4.79491209	**Kurtosis**	36.5095477
Uncorrected SS	58.9842	**Corrected SS**	12.4762388
Coeff Variation	51.85518	**Std Error Mean**	0.00836018

Basic Statistical Measures			
Location		**Variability**	
Mean	0.331584	**Std Deviation**	0.17194
Median	0.300000	**Variance**	0.02956
Mode	0.300000	**Range**	1.80000
		Interquartile Range	0.17000

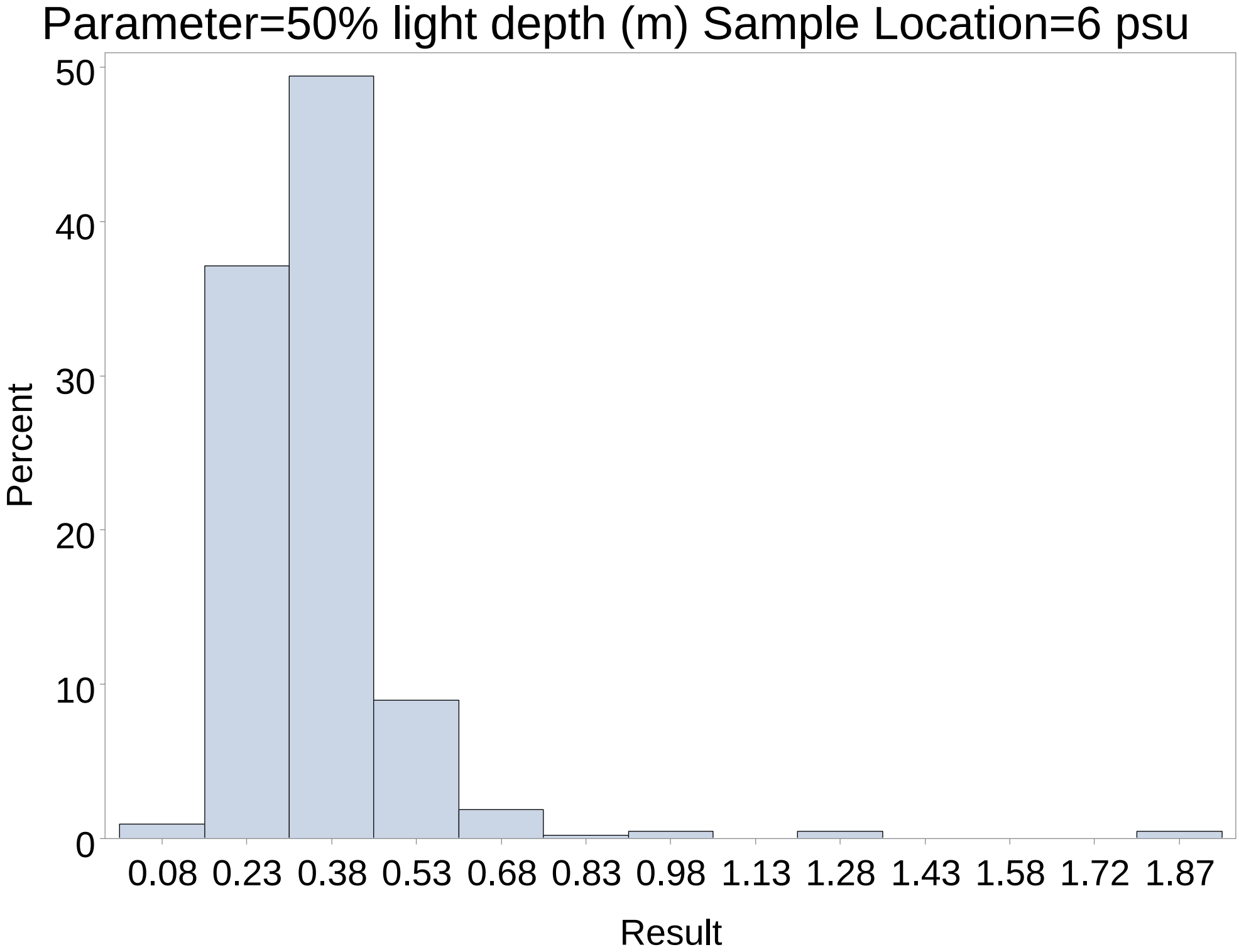
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	39.66231	**Pr > |t|**	<.0001
Sign	**M**	211.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44838	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.90
99%	1.00
95%	0.50
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.23
10%	0.20
5%	0.18
1%	0.15
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	33033	1.0	33064
0.12	32913	1.3	32988
0.13	32950	1.3	33063
0.14	32973	1.9	33079
0.15	32868	1.9	33080


Parameter=50% light depth (m) Sample Location=6 psu
Percent
50
40
30
20
10
0
0.08
0.23
0.38
0.53
0.68
0.83
0.98
1.13
1.28
1.43
1.58
1.72
1.87
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=12 psu

Moments			
N	424	**Sum Weights**	424
Mean	0.39415094	**Sum Observations**	167.12
Std Deviation	0.29332243	**Variance**	0.08603805
Skewness	13.6912686	**Kurtosis**	236.690702
Uncorrected SS	102.2646	**Corrected SS**	36.3940943
Coeff Variation	74.4188071	**Std Error Mean**	0.014245

Basic Statistical Measures			
Location		**Variability**	
Mean	0.394151	**Std Deviation**	0.29332
Median	0.370000	**Variance**	0.08604
Mode	0.400000	**Range**	5.48000
		Interquartile Range	0.14000

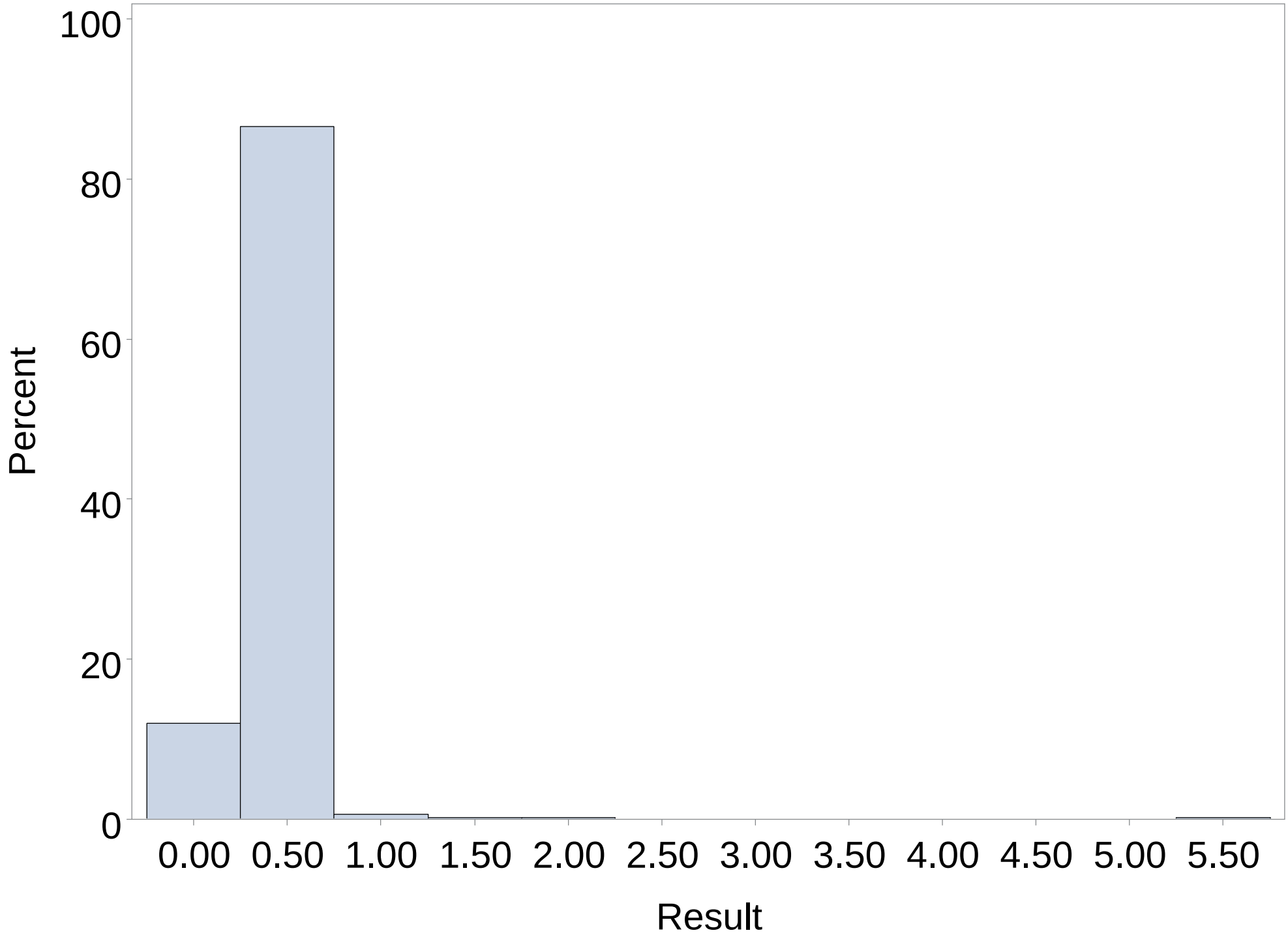
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.66943	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.60
99%	0.80
95%	0.60
90%	0.51
75% Q3	0.44
50% Median	0.37
25% Q1	0.30
10%	0.24
5%	0.21
1%	0.16
0% Min	0.12

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.12	33337	0.8	33403
0.12	33336	1.2	33411
0.14	33326	1.4	33559
0.16	33400	1.8	33553
0.16	33341	5.6	33503


Parameter=50% light depth (m) Sample Location=12 psu
100
80
60
40
20
0
Percent
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=20 psu

Moments			
N	424	**Sum Weights**	424
Mean	0.48542453	**Sum Observations**	205.82
Std Deviation	0.16791253	**Variance**	0.02819462
Skewness	5.62175928	**Kurtosis**	70.7045622
Uncorrected SS	111.8364	**Corrected SS**	11.9263236
Coeff Variation	34.5908627	**Std Error Mean**	0.00815455

Basic Statistical Measures			
Location		**Variability**	
Mean	0.485425	**Std Deviation**	0.16791
Median	0.490000	**Variance**	0.02819
Mode	0.500000	**Range**	2.50000
		Interquartile Range	0.17000

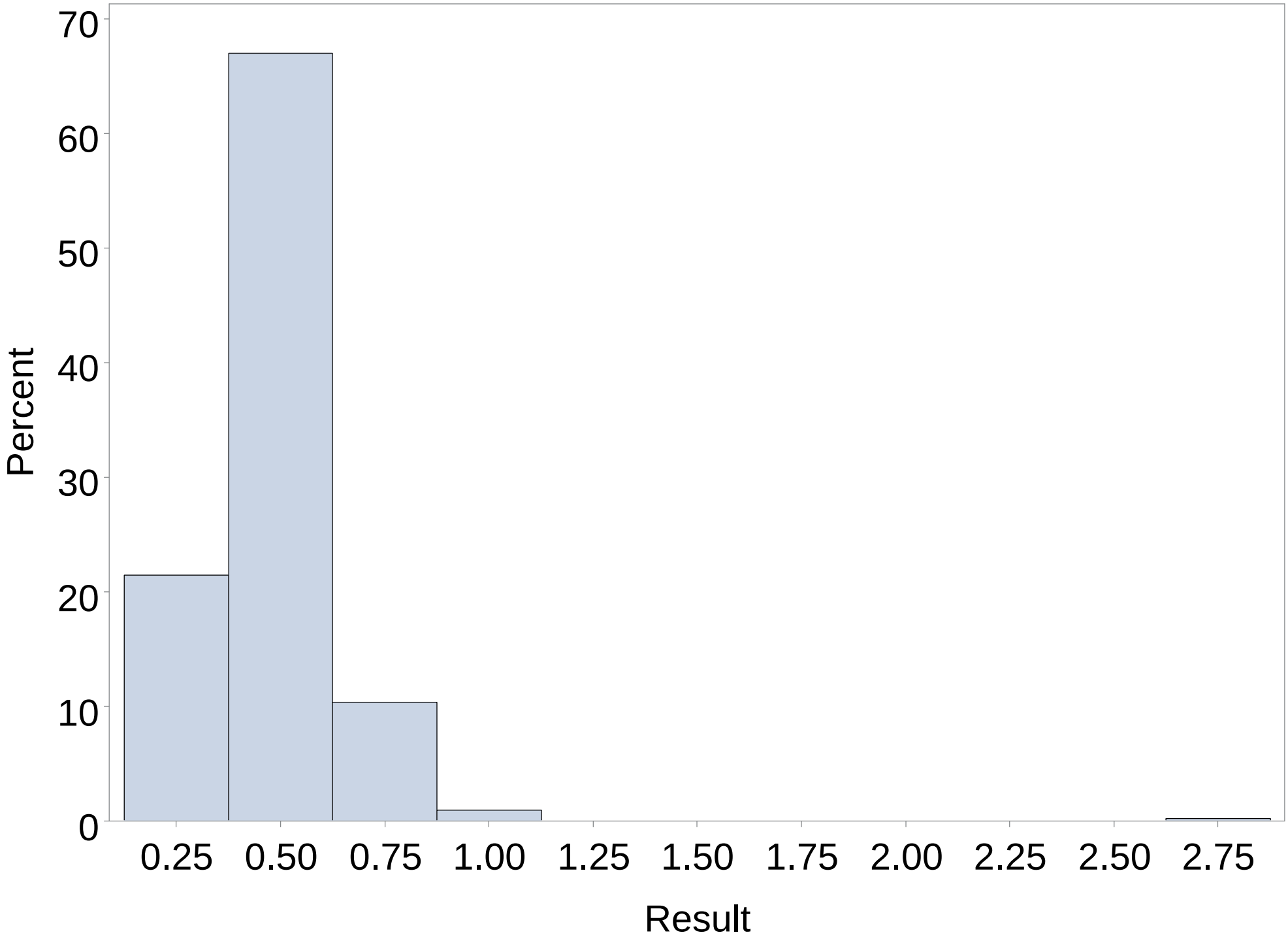
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	59.52803	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.70
99%	0.89
95%	0.70
90%	0.65
75% Q3	0.57
50% Median	0.49
25% Q1	0.40
10%	0.30
5%	0.30
1%	0.25
0% Min	0.20

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	33859	0.89	33677
0.20	33855	0.90	33808
0.23	33716	0.90	33827
0.24	33800	1.00	33927
0.25	34016	2.70	33835


Parameter=50% light depth (m) Sample Location=20 psu
Percent
70
60
50
40
30
20
10
0
0.25
0.50
0.75
1.00
1.25
1.50
1.75
2.00
2.25
2.50
2.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=Station 18

Moments			
N	211	**Sum Weights**	211
Mean	0.36327014	**Sum Observations**	76.65
Std Deviation	0.23165084	**Variance**	0.05366211
Skewness	4.71410033	**Kurtosis**	34.0242321
Uncorrected SS	39.1137	**Corrected SS**	11.2690436
Coeff Variation	63.768203	**Std Error Mean**	0.0159475

Basic Statistical Measures			
Location		**Variability**	
Mean	0.363270	**Std Deviation**	0.23165
Median	0.300000	**Variance**	0.05366
Mode	0.200000	**Range**	2.26000
		Interquartile Range	0.23000

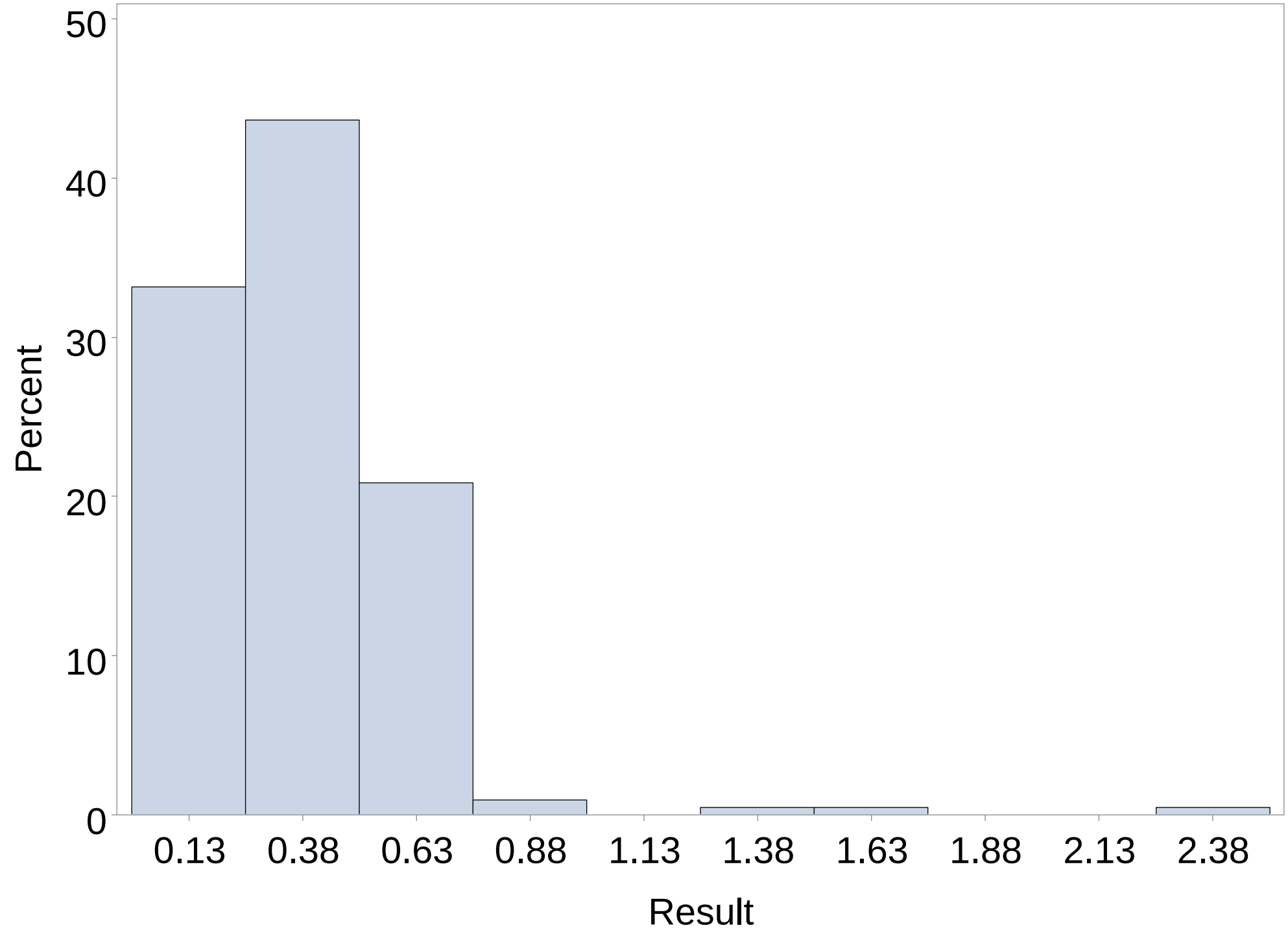
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.77913	**Pr > |t|**	<.0001
Sign	**M**	105.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11183	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.40
99%	1.40
95%	0.60
90%	0.57
75% Q3	0.43
50% Median	0.30
25% Q1	0.20
10%	0.20
5%	0.20
1%	0.17
0% Min	0.14

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.14	34247	0.8	34052
0.16	34233	0.8	34207
0.17	34257	1.4	34140
0.17	34246	1.7	34060
0.18	34248	2.4	34141


Parameter=50% light depth (m) Sample Location=Station 18
50
40
30
20
10
0
Percent
0.13
0.38
0.63
0.88
1.13
1.38
1.63
1.88
2.13
2.38
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	7.27112676	**Sum Observations**	3097.5
Std Deviation	0.51465136	**Variance**	0.26486602
Skewness	0.05695513	**Kurtosis**	1.76016155
Uncorrected SS	22634.8832	**Corrected SS**	112.568059
Coeff Variation	7.07801385	**Std Error Mean**	0.02493494

Basic Statistical Measures			
Location		**Variability**	
Mean	7.271127	**Std Deviation**	0.51465
Median	7.290000	**Variance**	0.26487
Mode	7.300000	**Range**	4.44000
		Interquartile Range	0.63000

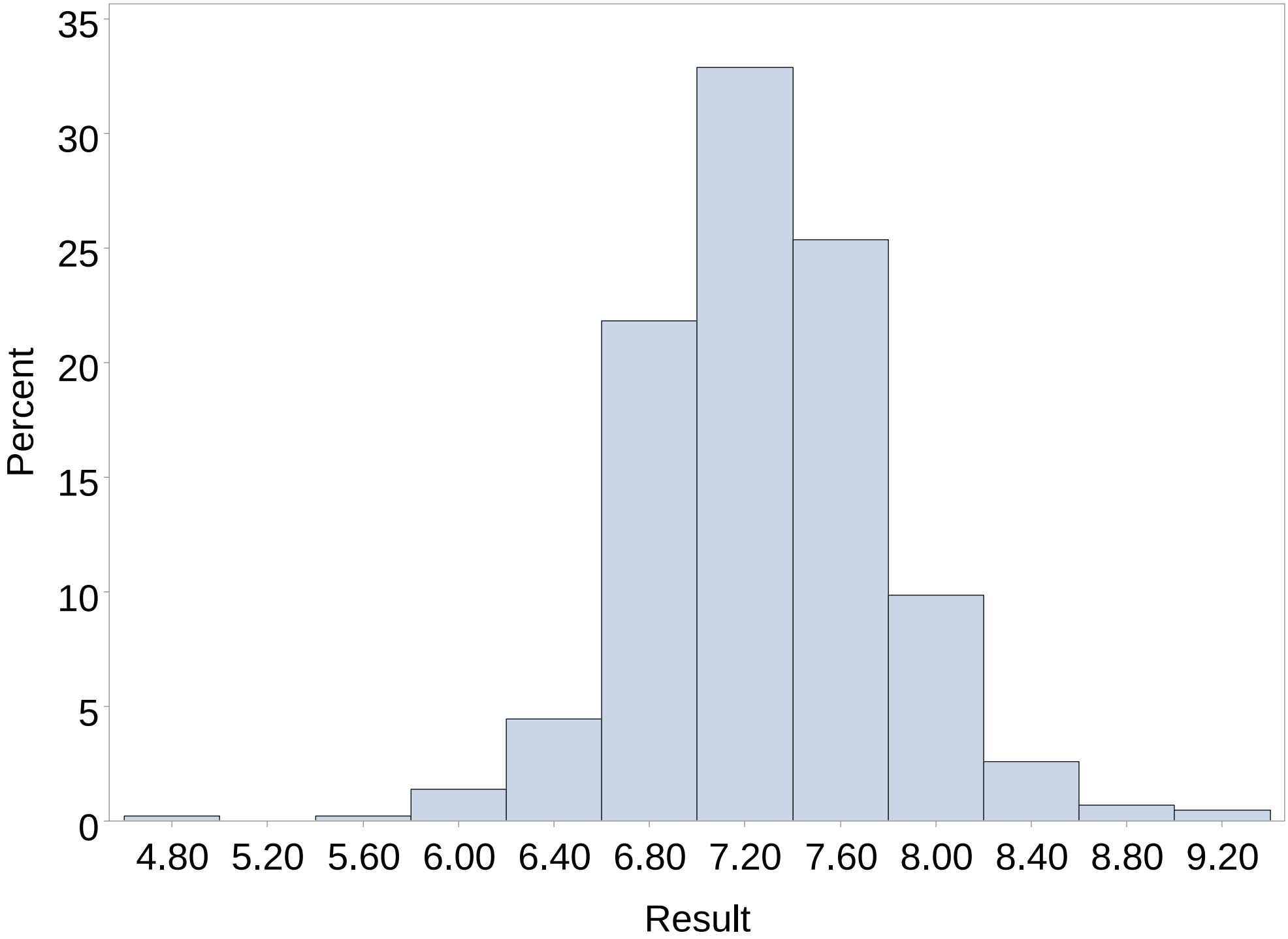
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	291.6039	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.30
99%	8.65
95%	8.08
90%	7.93
75% Q3	7.56
50% Median	7.29
25% Q1	6.93
10%	6.67
5%	6.54
1%	6.04
0% Min	4.86

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.86	34622	8.65	34677
5.62	34668	8.77	34595
5.82	34520	8.80	34679
5.85	34426	9.04	34439
6.04	34578	9.30	34667


Parameter=Bottom pH (std. units) Sample Location=0 psu
Percent
35
30
25
20
15
10
5
0
4.80
5.20
5.60
6.00
6.40
6.80
7.20
7.60
8.00
8.40
8.80
9.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=6 psu

Moments			
N	428	**Sum Weights**	428
Mean	7.3246028	**Sum Observations**	3134.93
Std Deviation	0.36613505	**Variance**	0.13405488
Skewness	-3.0130908	**Kurtosis**	27.1913635
Uncorrected SS	23019.3585	**Corrected SS**	57.2414325
Coeff Variation	4.99870181	**Std Error Mean**	0.01769781

Basic Statistical Measures			
Location		**Variability**	
Mean	7.324603	**Std Deviation**	0.36614
Median	7.340000	**Variance**	0.13405
Mode	7.400000	**Range**	4.74000
		Interquartile Range	0.37000

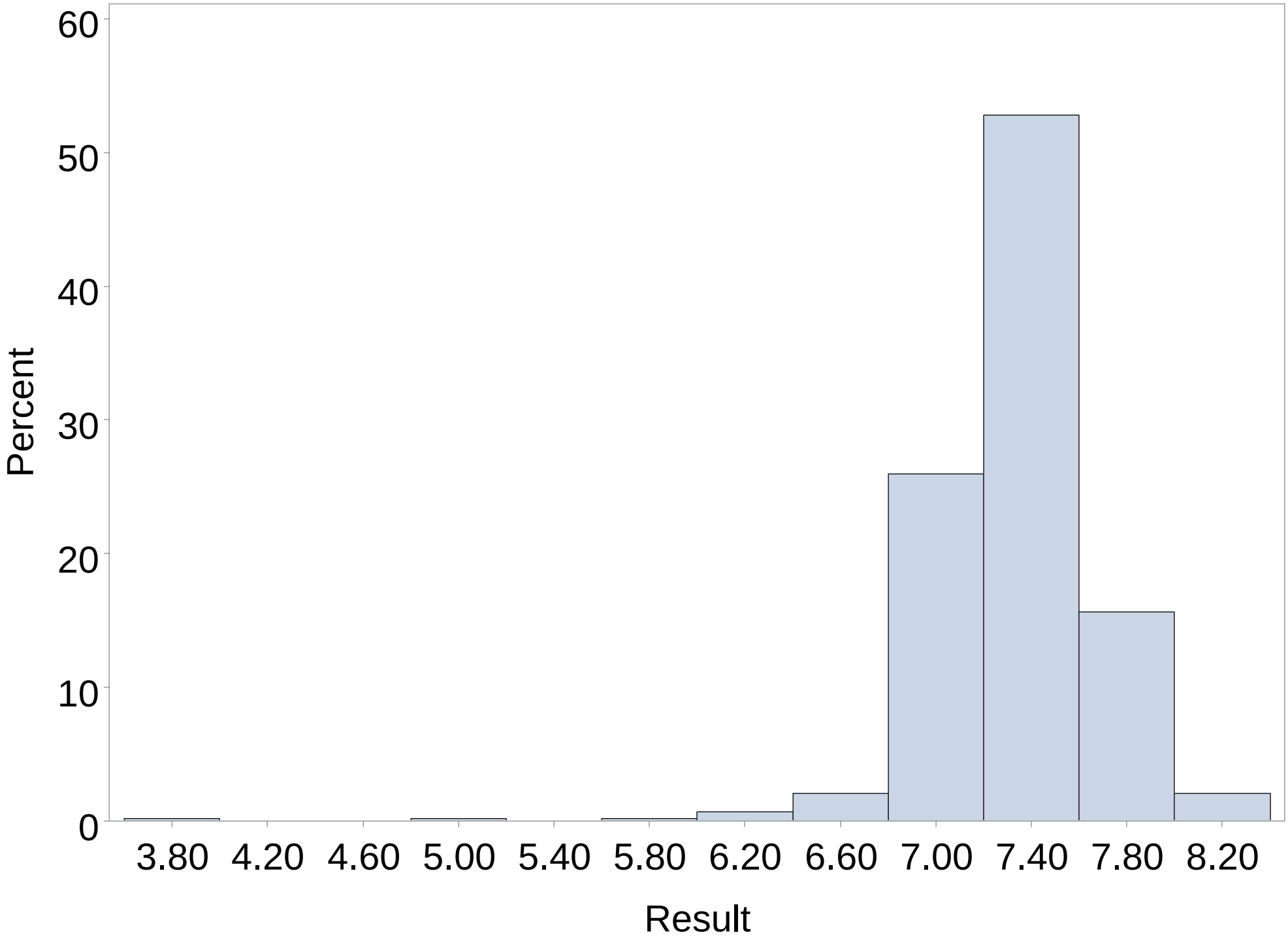
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	413.8707	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.37
99%	8.17
95%	7.77
90%	7.68
75% Q3	7.52
50% Median	7.34
25% Q1	7.15
10%	6.99
5%	6.86
1%	6.24
0% Min	3.63

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.63	34794	8.17	34936
5.11	35050	8.19	35011
5.97	34853	8.20	34699
6.04	35006	8.33	35095
6.24	34947	8.37	35022


Parameter=Bottom pH (std. units) Sample Location=6 psu
Percent
60
50
40
30
20
10
0
3.80
4.20
4.60
5.00
5.40
5.80
6.20
6.60
7.00
7.40
7.80
8.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=12 psu

Moments			
N	426	**Sum Weights**	426
Mean	7.50690141	**Sum Observations**	3197.94
Std Deviation	0.36986964	**Variance**	0.13680355
Skewness	-2.9392554	**Kurtosis**	18.2295484
Uncorrected SS	24064.7618	**Corrected SS**	58.1415099
Coeff Variation	4.92706141	**Std Error Mean**	0.01792024

Basic Statistical Measures			
Location		**Variability**	
Mean	7.506901	**Std Deviation**	0.36987
Median	7.530000	**Variance**	0.13680
Mode	7.600000	**Range**	3.89000
		Interquartile Range	0.34000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	418.9062	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

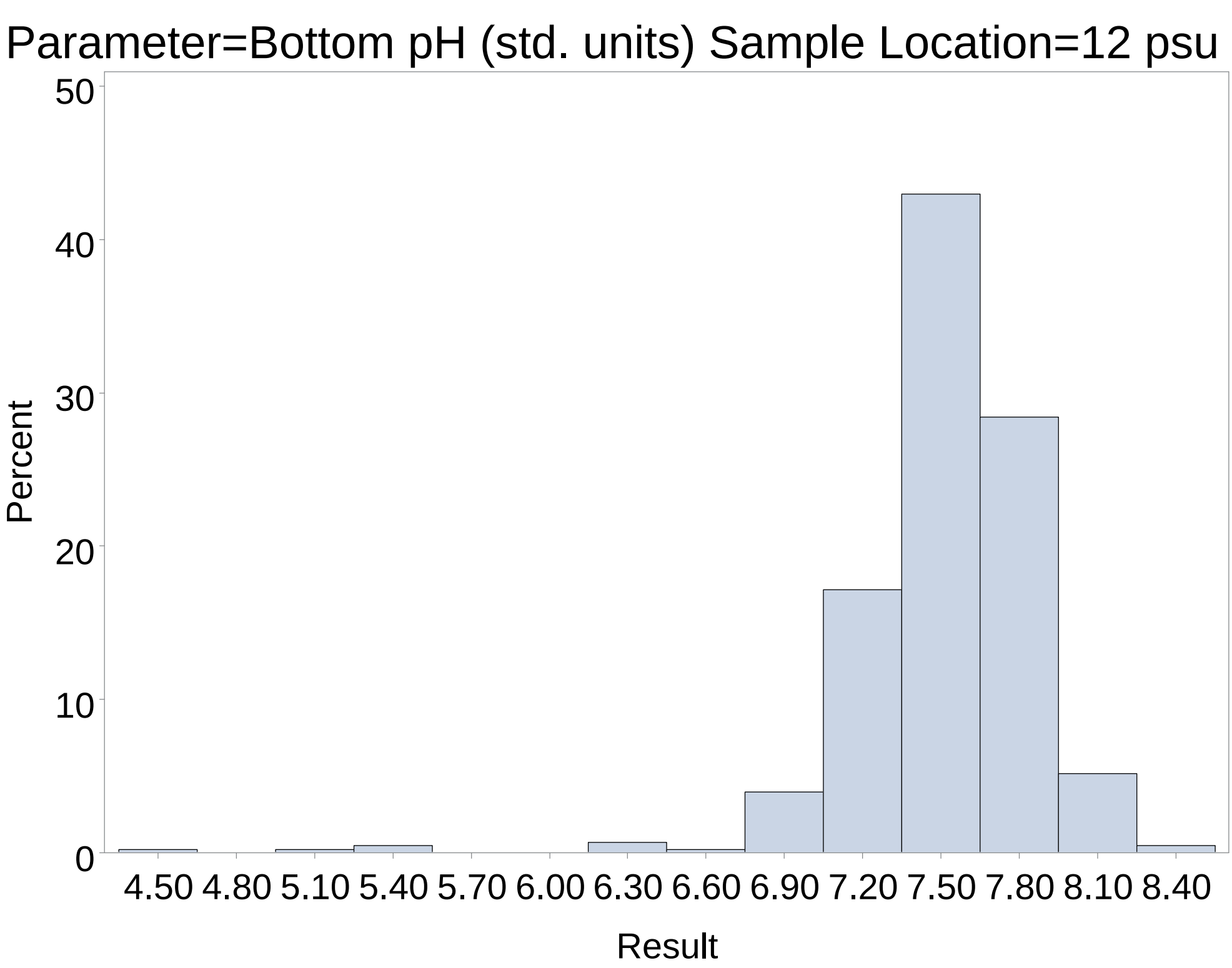
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.38
99%	8.16
95%	7.96
90%	7.86
75% Q3	7.71
50% Median	7.53
25% Q1	7.37
10%	7.15
5%	7.02
1%	6.34
0% Min	4.49

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.49	35490	8.16	35313
5.14	35221	8.16	35508
5.30	35477	8.22	35363
5.50	35161	8.30	35522
6.34	35374	8.38	35299

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.23	100.00


Parameter=Bottom pH (std. units) Sample Location=12 psu
50
40
30
20
10
0
Percent
4.50 4.80 5.10 5.40 5.70 6.00 6.30 6.60 6.90 7.20 7.50 7.80 8.10 8.40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	7.66533958	**Sum Observations**	3273.1
Std Deviation	0.29751642	**Variance**	0.08851602
Skewness	-1.6098368	**Kurtosis**	8.06301253
Uncorrected SS	25127.1308	**Corrected SS**	37.7078258
Coeff Variation	3.88132087	**Std Error Mean**	0.01439783

Basic Statistical Measures			
Location		**Variability**	
Mean	7.665340	**Std Deviation**	0.29752
Median	7.690000	**Variance**	0.08852
Mode	7.600000	**Range**	2.85000
		Interquartile Range	0.33000

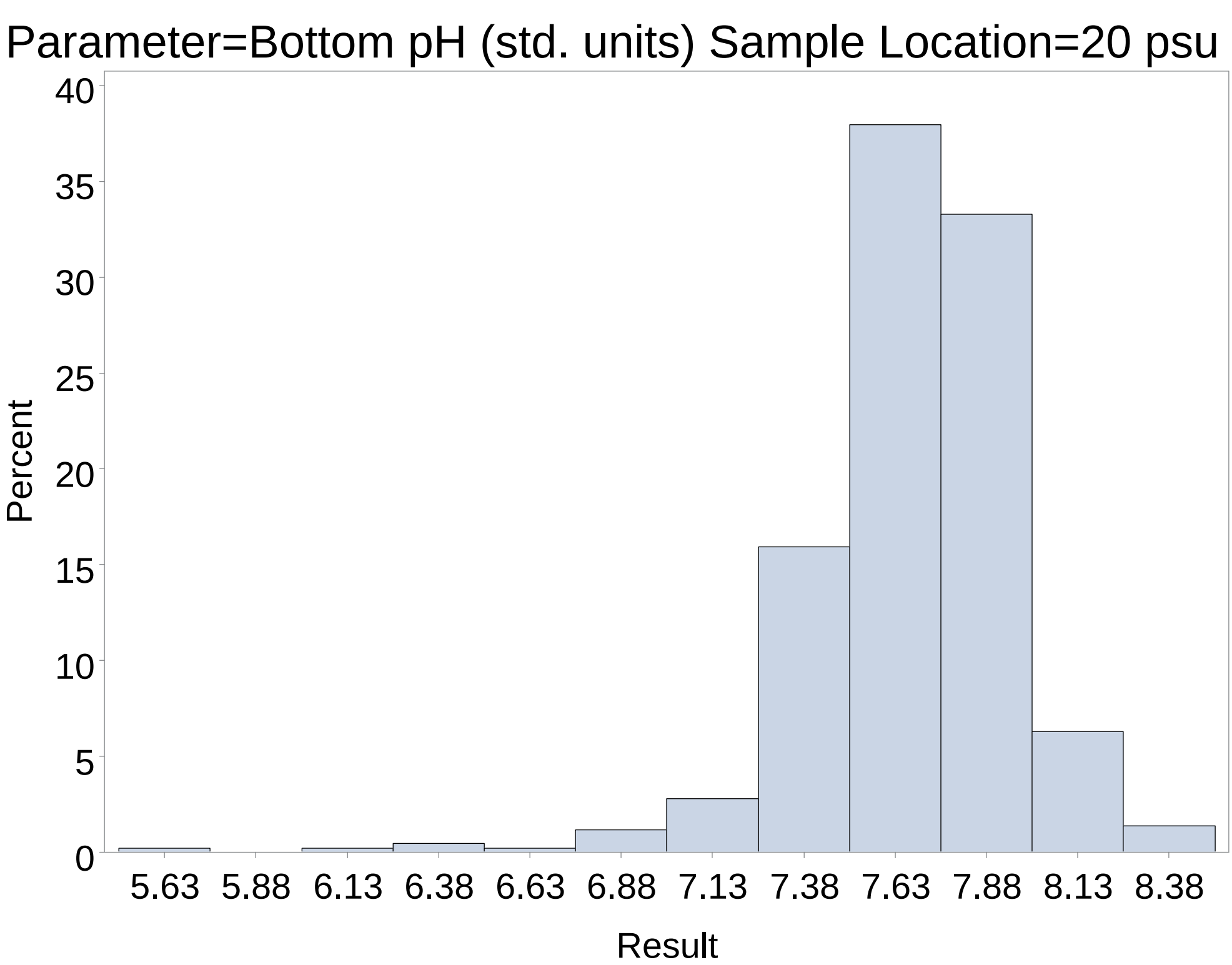
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	532.3955	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.45
99%	8.30
95%	8.07
90%	7.98
75% Q3	7.85
50% Median	7.69
25% Q1	7.52
10%	7.35
5%	7.24
1%	6.64
0% Min	5.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.60	35588	8.30	35784
6.12	35904	8.30	35865
6.37	35801	8.35	35964
6.42	35800	8.41	35779
6.64	35707	8.45	35726


Parameter=Bottom pH (std. units) Sample Location=20 psu
Percent
0
5
10
15
20
25
30
35
40
5.63
5.88
6.13
6.38
6.63
6.88
7.13
7.38
7.63
7.88
8.13
8.38
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=Station 18

Moments			
N	222	**Sum Weights**	222
Mean	7.35490991	**Sum Observations**	1632.79
Std Deviation	0.51896498	**Variance**	0.26932465
Skewness	-0.7280077	**Kurtosis**	2.96819978
Uncorrected SS	12068.5441	**Corrected SS**	59.5207482
Coeff Variation	7.05603452	**Std Error Mean**	0.03483065

Basic Statistical Measures			
Location		**Variability**	
Mean	7.354910	**Std Deviation**	0.51896
Median	7.375000	**Variance**	0.26932
Mode	7.520000	**Range**	4.11000
		Interquartile Range	0.59000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	211.162	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

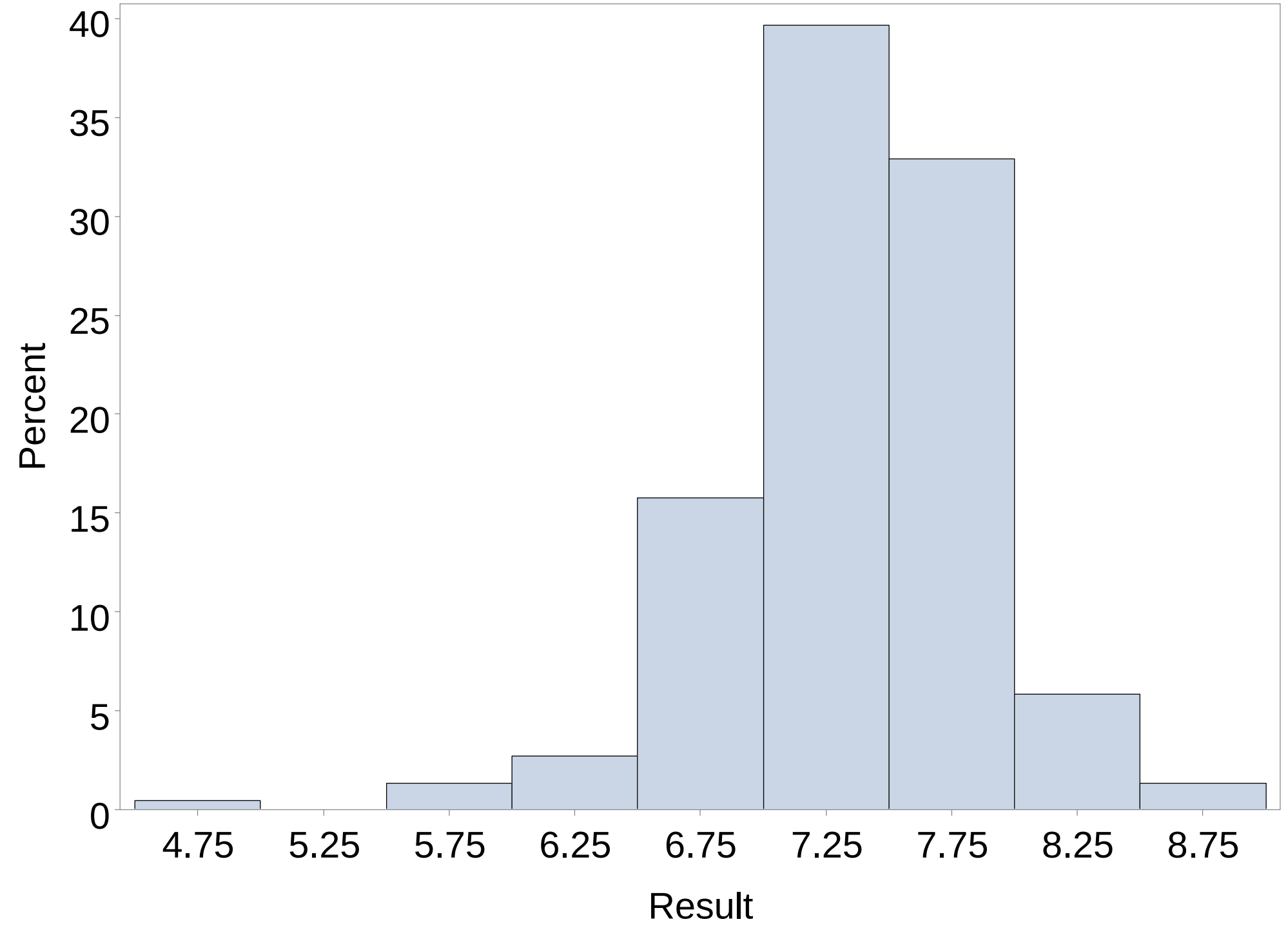
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.830
99%	8.510
95%	8.080
90%	7.950
75% Q3	7.690
50% Median	7.375
25% Q1	7.100
10%	6.720
5%	6.580
1%	5.950
0% Min	4.720

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.72	36127	8.38	36184
5.75	36024	8.40	36171
5.95	36083	8.51	36038
5.99	36161	8.73	36172
6.10	36173	8.83	36100

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.45	100.00


Parameter=Bottom pH (std. units) Sample Location=Station 18
Percent
0
5
10
15
20
25
30
35
40
4.75
5.25
5.75
6.25
6.75
7.25
7.75
8.25
8.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=0 psu

Moments			
N	425	**Sum Weights**	425
Mean	7.38703529	**Sum Observations**	3139.49
Std Deviation	0.52198746	**Variance**	0.27247091
Skewness	0.10657927	**Kurtosis**	2.2277485
Uncorrected SS	23307.0511	**Corrected SS**	115.527664
Coeff Variation	7.06626458	**Std Error Mean**	0.02532011

Basic Statistical Measures			
Location		**Variability**	
Mean	7.387035	**Std Deviation**	0.52199
Median	7.380000	**Variance**	0.27247
Mode	7.000000	**Range**	4.84000
		Interquartile Range	0.70000

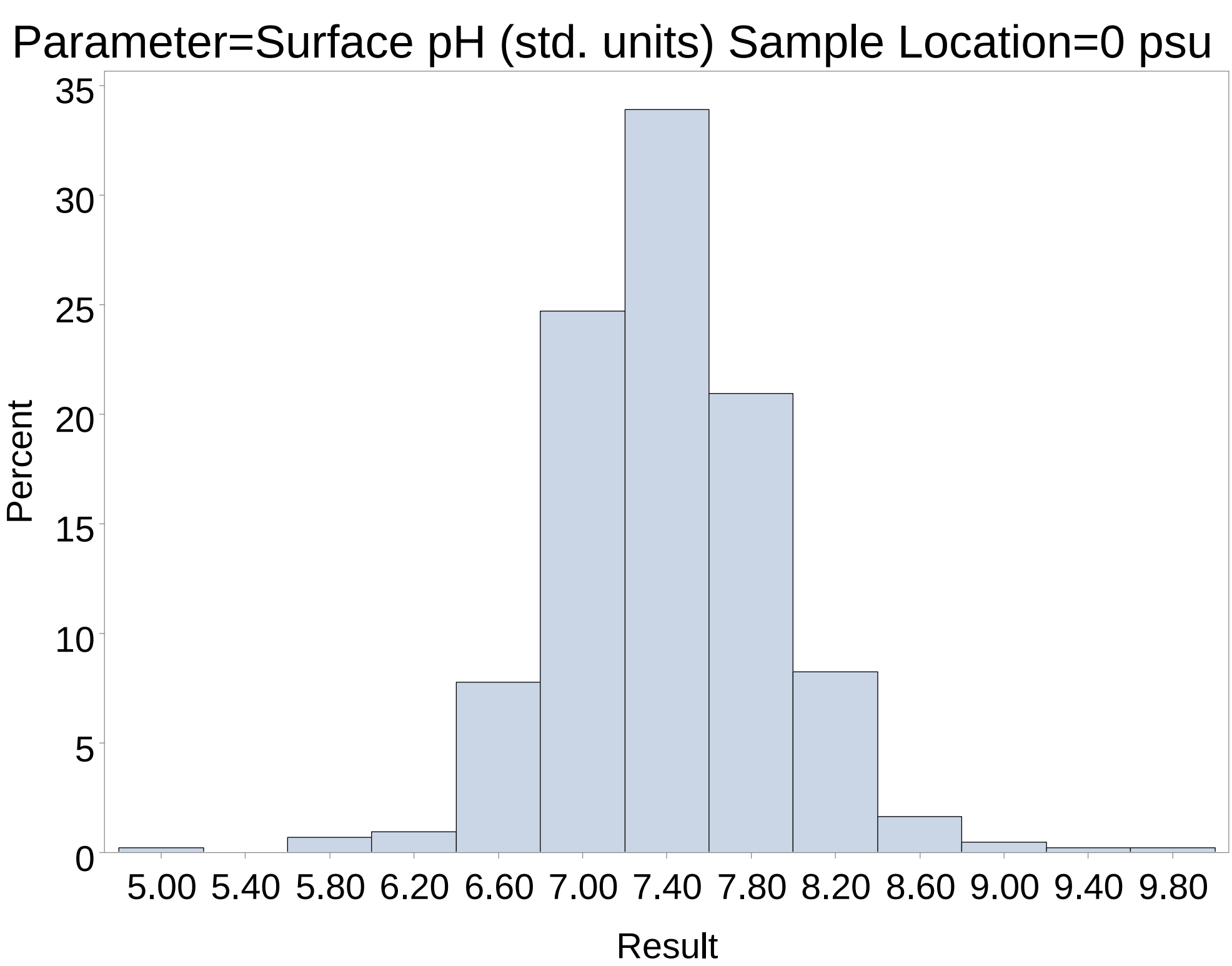
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	291.7458	**Pr > |t|**	<.0001
Sign	**M**	212.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45262.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.73
99%	8.79
95%	8.20
90%	8.01
75% Q3	7.72
50% Median	7.38
25% Q1	7.02
10%	6.80
5%	6.66
1%	6.06
0% Min	4.89

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.89	36552	8.79	36605
5.79	36598	8.80	36609
5.80	36357	8.82	36525
5.91	36451	9.30	36597
6.06	36508	9.73	36370


Parameter=Surface pH (std. units) Sample Location=0 psu
Percent
0
5
10
15
20
25
30
35
5.00
5.40
5.80
6.20
6.60
7.00
7.40
7.80
8.20
8.60
9.00
9.40
9.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=6 psu

Moments			
N	428	**Sum Weights**	428
Mean	7.39733645	**Sum Observations**	3166.06
Std Deviation	0.3734395	**Variance**	0.13945706
Skewness	-0.5471828	**Kurtosis**	3.92183113
Uncorrected SS	23479.9592	**Corrected SS**	59.5481636
Coeff Variation	5.04829676	**Std Error Mean**	0.01805088

Basic Statistical Measures			
Location		**Variability**	
Mean	7.397336	**Std Deviation**	0.37344
Median	7.380000	**Variance**	0.13946
Mode	7.500000	**Range**	3.43000
		Interquartile Range	0.42500

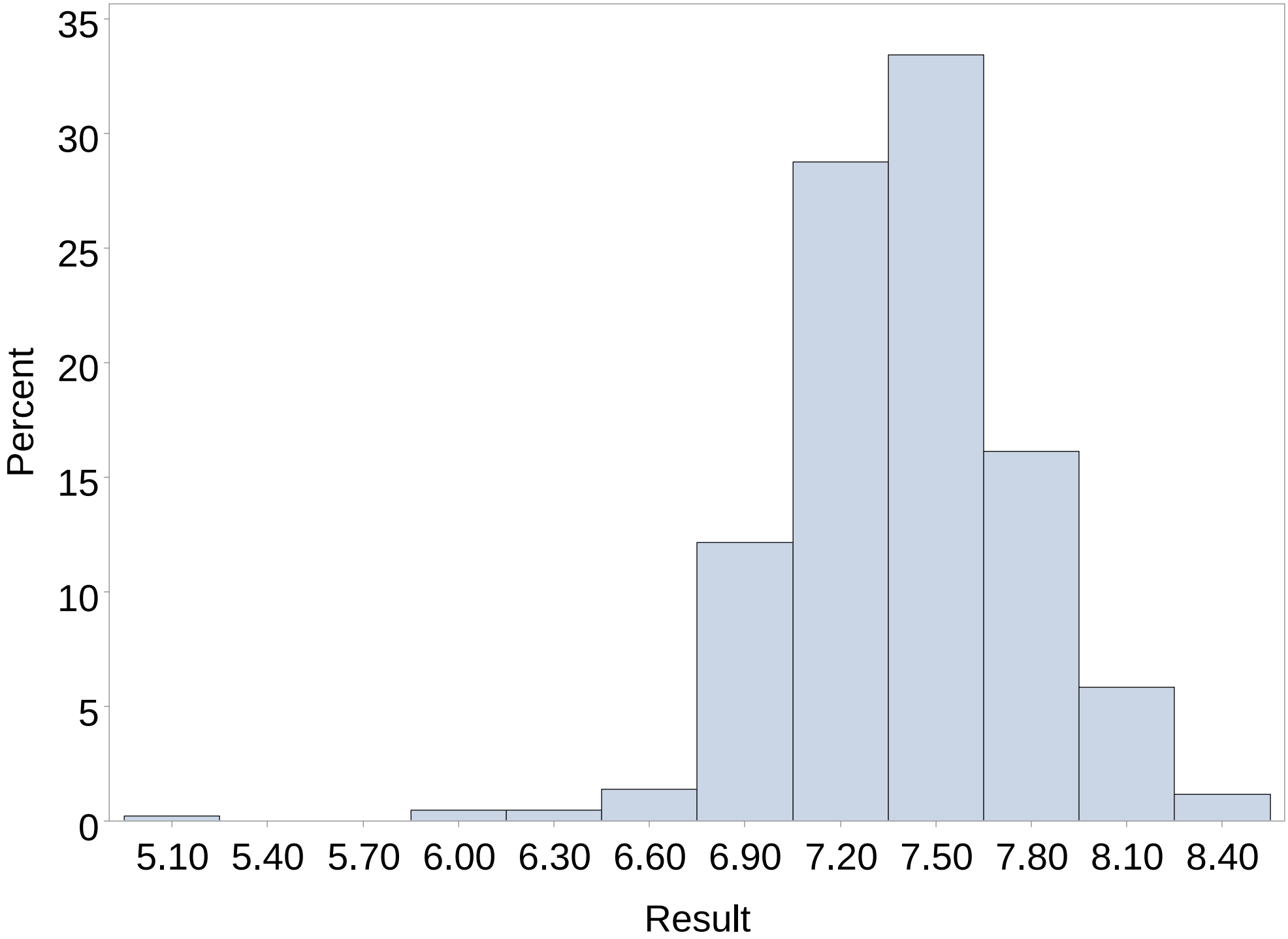
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	409.8048	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.510
99%	8.250
95%	8.060
90%	7.860
75% Q3	7.615
50% Median	7.380
25% Q1	7.190
10%	6.980
5%	6.890
1%	6.370
0% Min	5.080

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.08	36980	8.25	36784
5.99	36783	8.30	36629
6.05	36936	8.33	37025
6.25	36877	8.47	37033
6.37	36782	8.51	36883


Parameter=Surface pH (std. units) Sample Location=6 psu
Percent
35
30
25
20
15
10
5
0
5.10
5.40
5.70
6.00
6.30
6.60
6.90
7.20
7.50
7.80
8.10
8.40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	7.60742389	**Sum Observations**	3248.37
Std Deviation	0.35388908	**Variance**	0.12523748
Skewness	-0.5579279	**Kurtosis**	4.29747512
Uncorrected SS	24765.0787	**Corrected SS**	53.3511663
Coeff Variation	4.65189114	**Std Error Mean**	0.01712589

Basic Statistical Measures			
Location		**Variability**	
Mean	7.607424	**Std Deviation**	0.35389
Median	7.600000	**Variance**	0.12524
Mode	7.700000	**Range**	3.38000
		Interquartile Range	0.38000

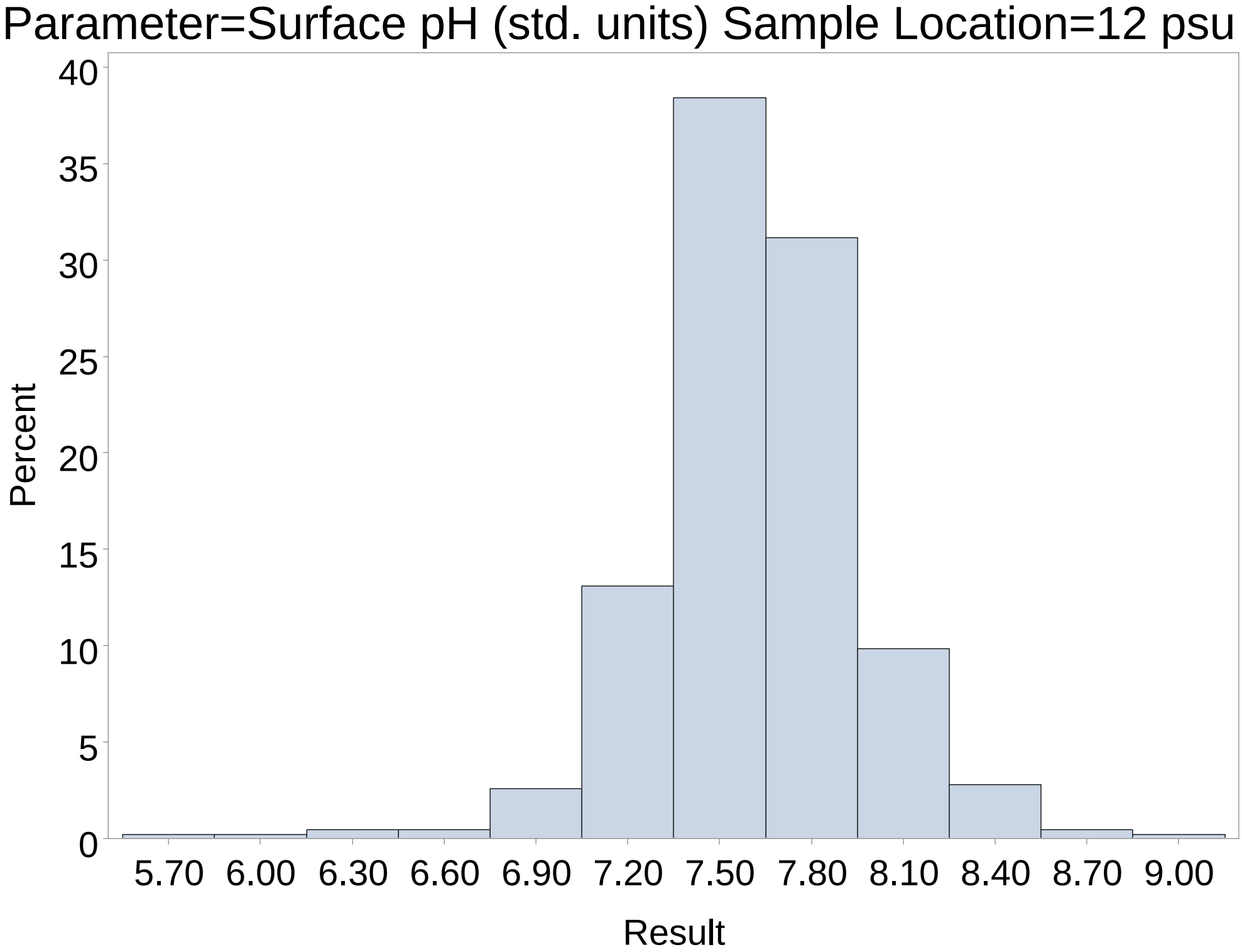
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	444.206	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.07
99%	8.51
95%	8.16
90%	8.00
75% Q3	7.80
50% Median	7.60
25% Q1	7.42
10%	7.22
5%	7.09
1%	6.45
0% Min	5.69

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.69	37407	8.51	37310
5.90	37091	8.53	37223
6.28	37363	8.57	37293
6.37	37304	8.70	37229
6.45	37303	9.07	37418


Parameter=Surface pH (std. units) Sample Location=12 psu
Percent
0
5
10
15
20
25
30
35
40
5.70
6.00
6.30
6.60
6.90
7.20
7.50
7.80
8.10
8.40
8.70
9.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=20 psu

Moments			
N	426	**Sum Weights**	426
Mean	7.69913146	**Sum Observations**	3279.83
Std Deviation	0.34513145	**Variance**	0.11911571
Skewness	-2.0103461	**Kurtosis**	13.0474002
Uncorrected SS	25302.4665	**Corrected SS**	50.6241786
Coeff Variation	4.4827322	**Std Error Mean**	0.01672167

Basic Statistical Measures			
Location		**Variability**	
Mean	7.699131	**Std Deviation**	0.34513
Median	7.720000	**Variance**	0.11912
Mode	7.800000	**Range**	4.09000
		Interquartile Range	0.32000

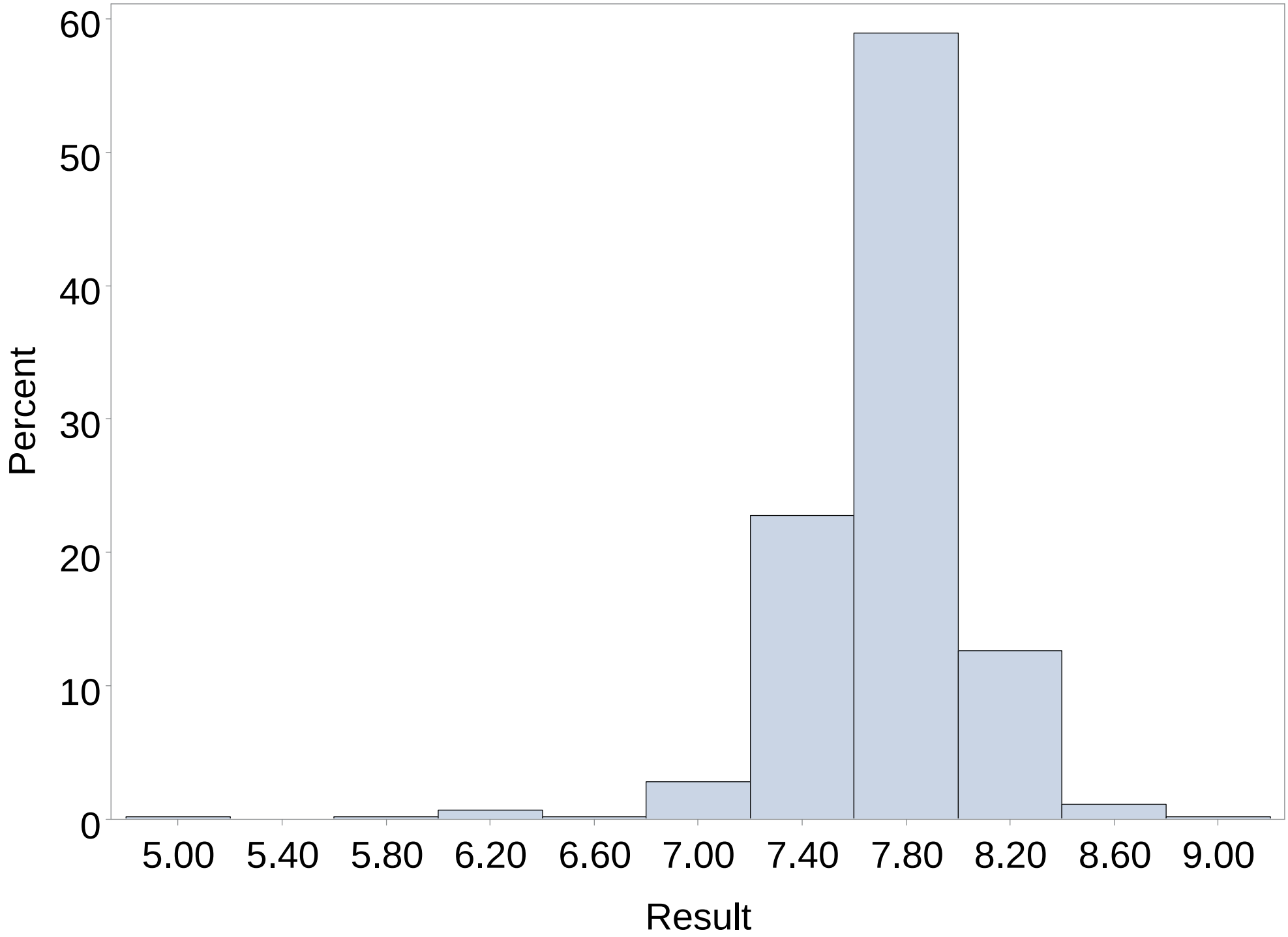
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	460.4283	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.06
99%	8.44
95%	8.17
90%	8.06
75% Q3	7.88
50% Median	7.72
25% Q1	7.56
10%	7.36
5%	7.22
1%	6.39
0% Min	4.97

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.97	37636	8.44	37896
5.92	37588	8.47	37786
6.00	37518	8.48	37894
6.13	37833	8.49	37649
6.39	37729	9.06	37867


Parameter=Surface pH (std. units) Sample Location=20 psu
Percent
60
50
40
30
20
10
0
5.00
5.40
5.80
6.20
6.60
7.00
7.40
7.80
8.20
8.60
9.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=Station 18

Moments			
N	222	**Sum Weights**	222
Mean	7.46851351	**Sum Observations**	1658.01
Std Deviation	0.51709163	**Variance**	0.26738375
Skewness	-0.6727326	**Kurtosis**	2.27869548
Uncorrected SS	12441.9619	**Corrected SS**	59.0918095
Coeff Variation	6.9236218	**Std Error Mean**	0.03470492

Basic Statistical Measures			
Location		**Variability**	
Mean	7.468514	**Std Deviation**	0.51709
Median	7.490000	**Variance**	0.26738
Mode	7.450000	**Range**	3.98000
		Interquartile Range	0.65000

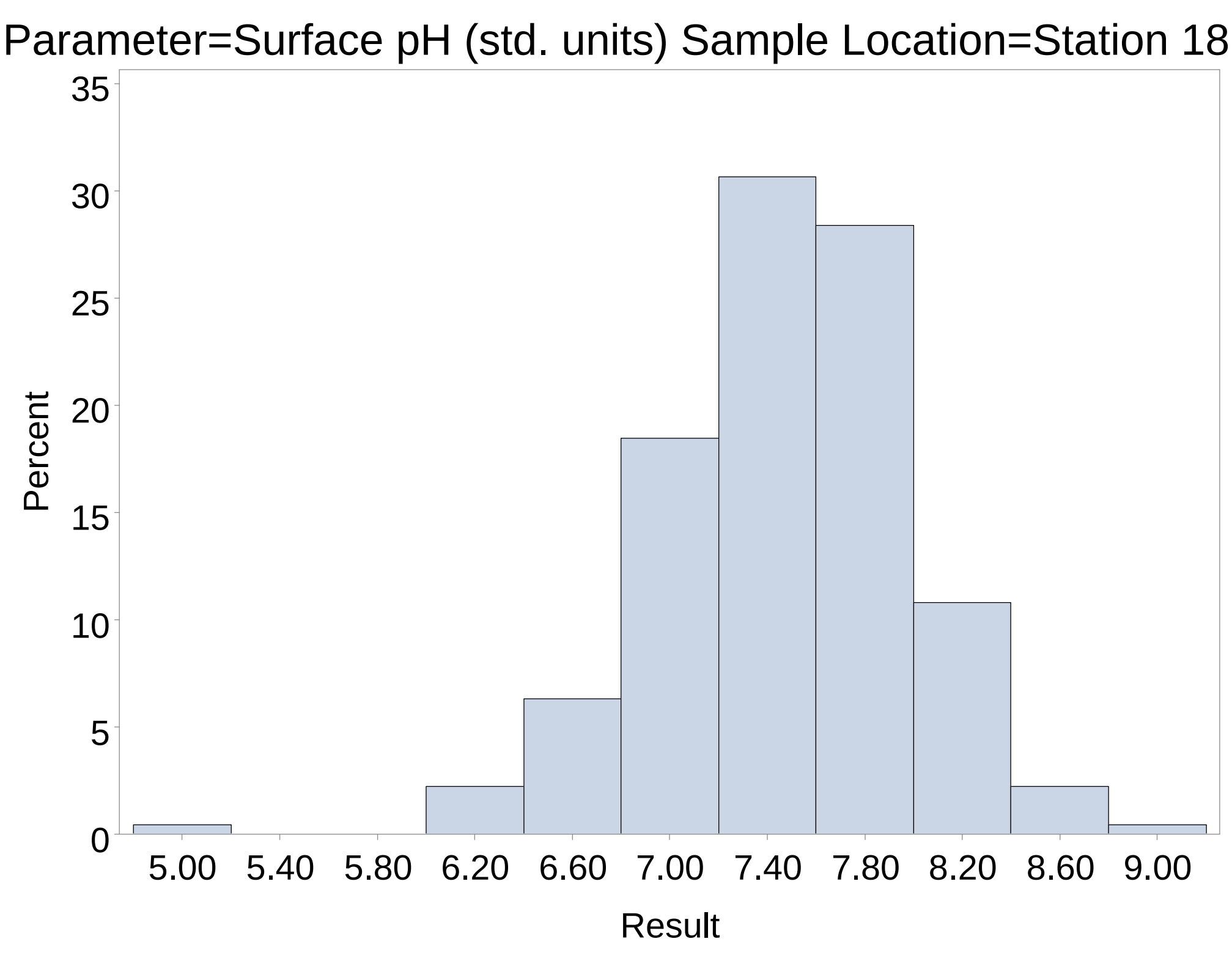
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	215.2004	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.91
99%	8.52
95%	8.20
90%	8.08
75% Q3	7.81
50% Median	7.49
25% Q1	7.16
10%	6.86
5%	6.67
1%	6.08
0% Min	4.93

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.93	38056	8.40	38100
6.02	38012	8.41	38109
6.08	37953	8.52	38091
6.10	38102	8.75	38101
6.36	38090	8.91	37967


Parameter=Surface pH (std. units) Sample Location=Station 18
Percent
35
30
25
20
15
10
5
0
5.00
5.40
5.80
6.20
6.60
7.00
7.40
7.80
8.20
8.60
9.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=0 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.81116909	**Sum Observations**	346.369201
Std Deviation	2.78114096	**Variance**	7.73474504
Skewness	6.35179715	**Kurtosis**	45.2997692
Uncorrected SS	3575.96538	**Corrected SS**	3295.00139
Coeff Variation	342.855885	**Std Error Mean**	0.13458884

Basic Statistical Measures			
Location		**Variability**	
Mean	0.811169	**Std Deviation**	2.78114
Median	0.250000	**Variance**	7.73475
Mode	0.000000	**Range**	26.83000
		Interquartile Range	0.28415

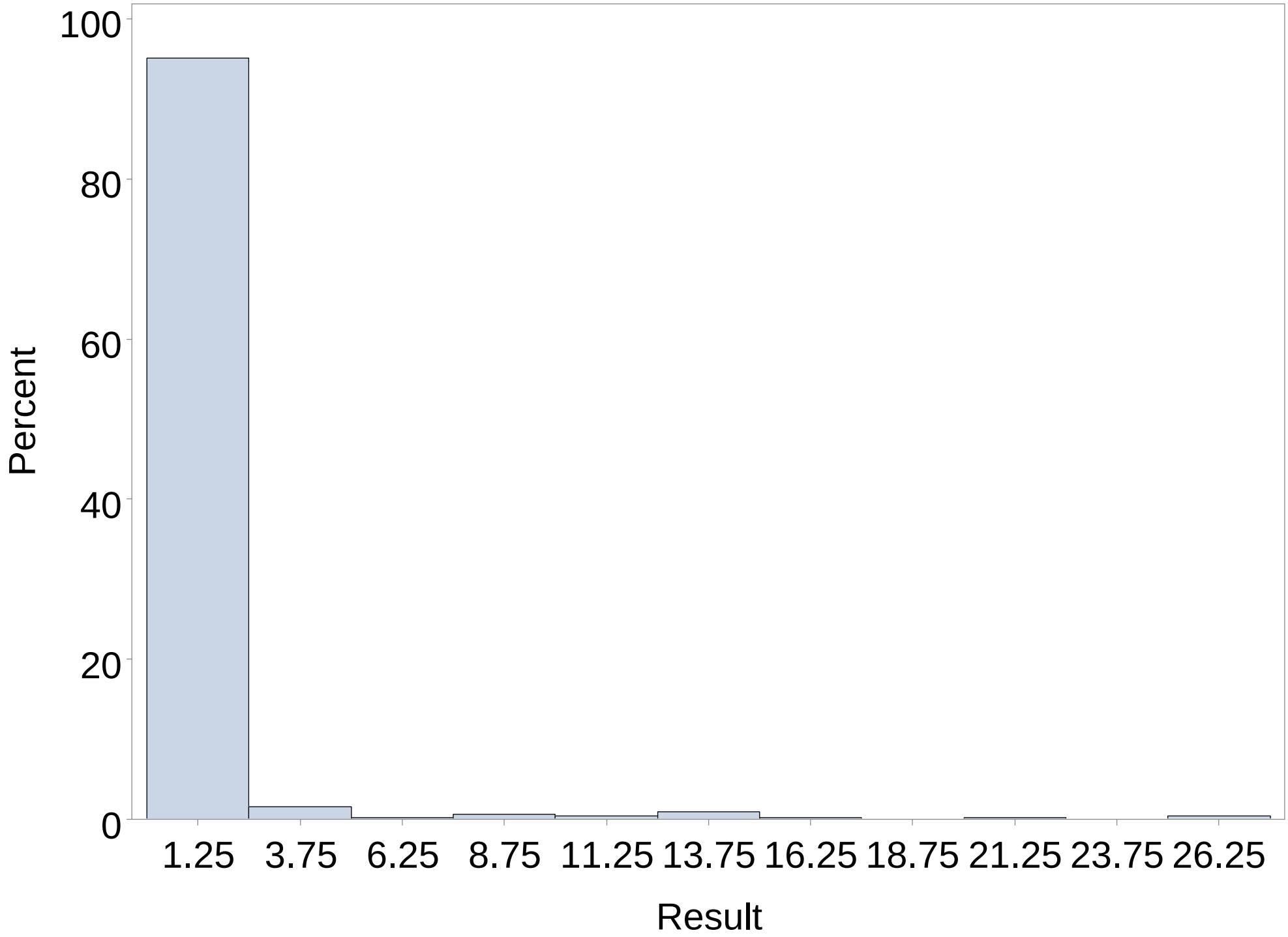
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	6.027016	**Pr > |t|**	<.0001
Sign	**M**	176	**Pr >= |M|**	<.0001
Signed Rank	**S**	31064	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.8300000
99%	14.6024500
95%	2.4378061
90%	0.9000000
75% Q3	0.3678380
50% Median	0.2500000
25% Q1	0.0836906
10%	0.0000000
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	38327	14.6025	38257
0	38318	17.3700	38356
0	38317	21.5600	38385
0	38316	25.1300	38519
0	38315	26.8300	38531


Parameter=Bottom Salinity (psu) Sample Location=0 psu
100
80
60
40
20
0
Percent
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
26.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	11.7798358	**Sum Observations**	5053.54956
Std Deviation	5.91856704	**Variance**	35.0294358
Skewness	1.3171466	**Kurtosis**	1.42569852
Uncorrected SS	74522.5827	**Corrected SS**	14992.5985
Coeff Variation	50.2432049	**Std Error Mean**	0.28575111

Basic Statistical Measures			
Location		**Variability**	
Mean	11.77984	**Std Deviation**	5.91857
Median	9.45000	**Variance**	35.02944
Mode	7.40000	**Range**	31.97080
		Interquartile Range	7.96078

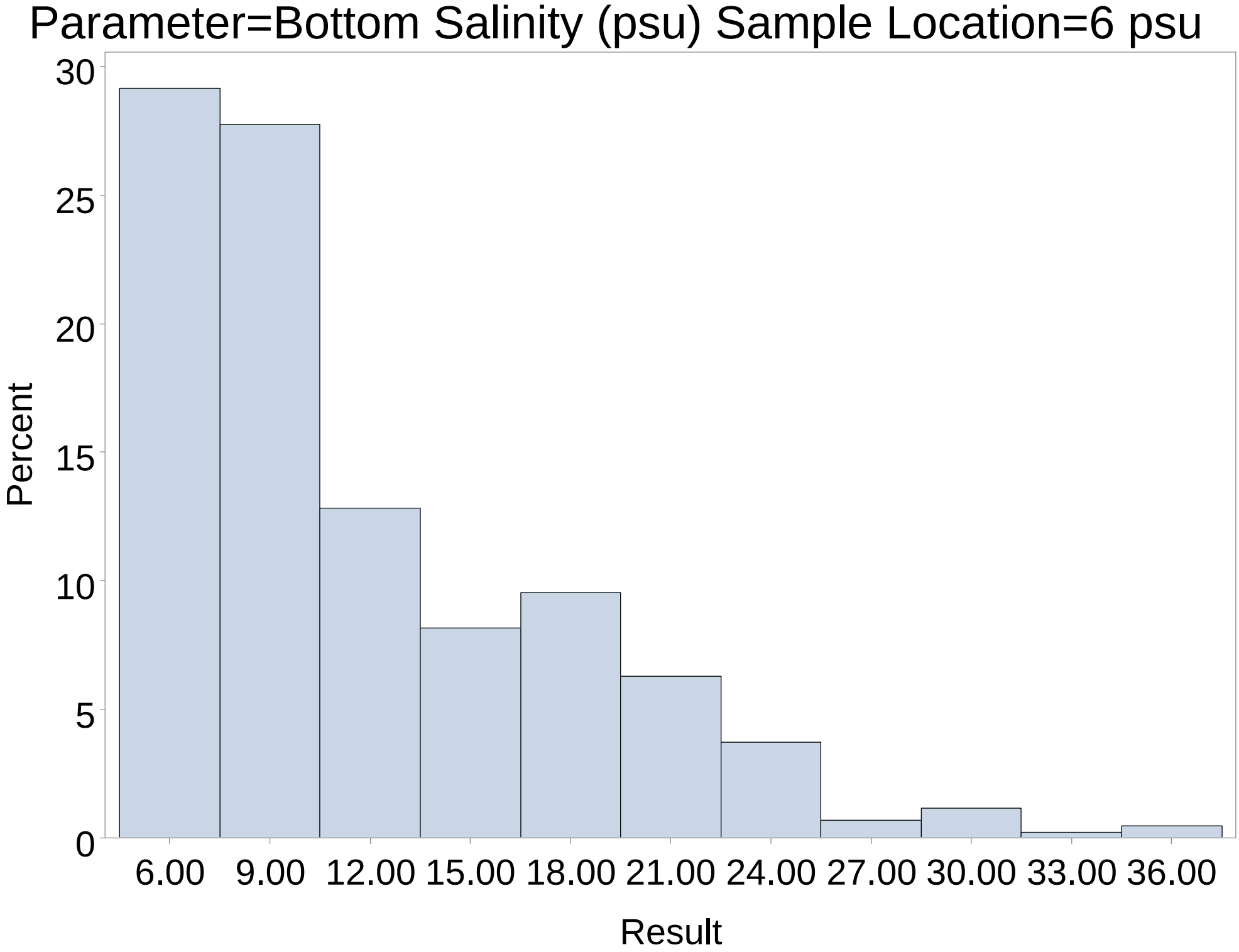
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.22411	**Pr > |t|**	<.0001
Sign	**M**	214.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	46117.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.84000
99%	30.96000
95%	22.77000
90%	20.41954
75% Q3	15.14078
50% Median	9.45000
25% Q1	7.18000
10%	6.38062
5%	6.15974
1%	5.60000
0% Min	4.86920

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.86920	38597	30.96	38862
5.40000	38594	31.06	38960
5.42289	38636	32.58	38948
5.53196	38747	34.90	38945
5.60000	38593	36.84	38909


Parameter=Bottom Salinity (psu) Sample Location=6 psu
Percent
30
25
20
15
10
5
0
6.00
9.00
12.00
15.00
18.00
21.00
24.00
27.00
30.00
33.00
36.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	18.3348627	**Sum Observations**	7847.32125
Std Deviation	5.29168114	**Variance**	28.0018893
Skewness	1.31470096	**Kurtosis**	3.06406715
Uncorrected SS	155836.365	**Corrected SS**	11956.8067
Coeff Variation	28.8613077	**Std Error Mean**	0.25578306

Basic Statistical Measures			
Location		**Variability**	
Mean	18.33486	**Std Deviation**	5.29168
Median	17.29059	**Variance**	28.00189
Mode	13.66581	**Range**	37.90735
		Interquartile Range	7.54320

Note: The mode displayed is the smallest of 2 modes with a count of 4.

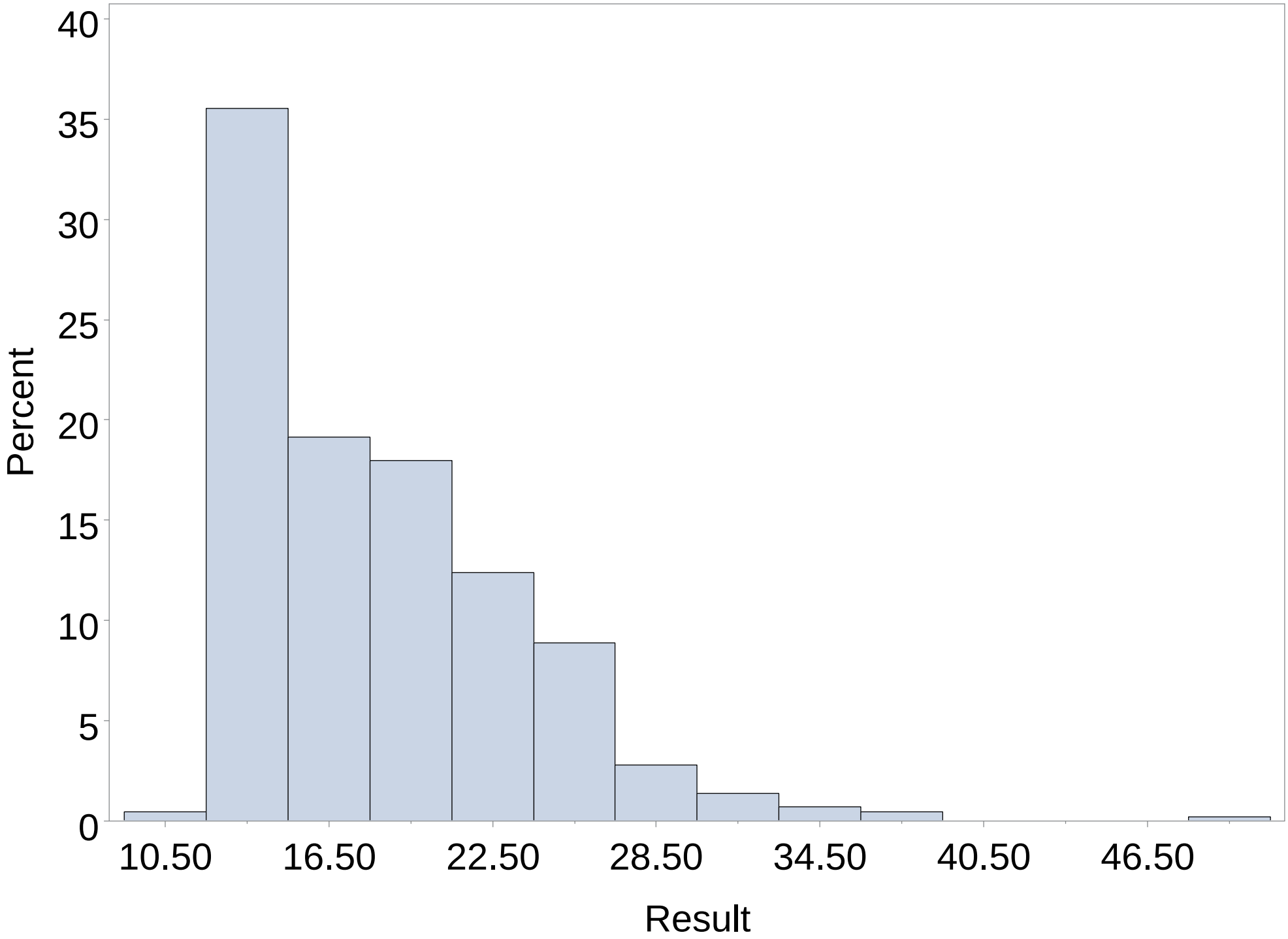
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	71.6813	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	49.5200
99%	35.5200
95%	27.2134
90%	25.3600
75% Q3	21.5432
50% Median	17.2906
25% Q1	14.0000
10%	12.8025
5%	12.5100
1%	12.0771
0% Min	11.6127

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.6127	39023	35.52	39373
11.6835	39103	35.92	39326
12.0000	39283	36.78	39242
12.0300	39279	38.99	39337
12.0771	39139	49.52	39376


Parameter=Bottom Salinity (psu) Sample Location=12 psu
Percent
40
35
30
25
20
15
10
5
0
10.50
16.50
22.50
28.50
34.50
40.50
46.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=20 psu

Moments			
N	428	**Sum Weights**	428
Mean	24.4025228	**Sum Observations**	10444.2797
Std Deviation	4.01372366	**Variance**	16.1099776
Skewness	1.97950992	**Kurtosis**	7.30840675
Uncorrected SS	261745.735	**Corrected SS**	6878.96045
Coeff Variation	16.4479866	**Std Error Mean**	0.19401066

Basic Statistical Measures			
Location		**Variability**	
Mean	24.40252	**Std Deviation**	4.01372
Median	23.39024	**Variance**	16.10998
Mode	23.09721	**Range**	33.50526
		Interquartile Range	4.60286

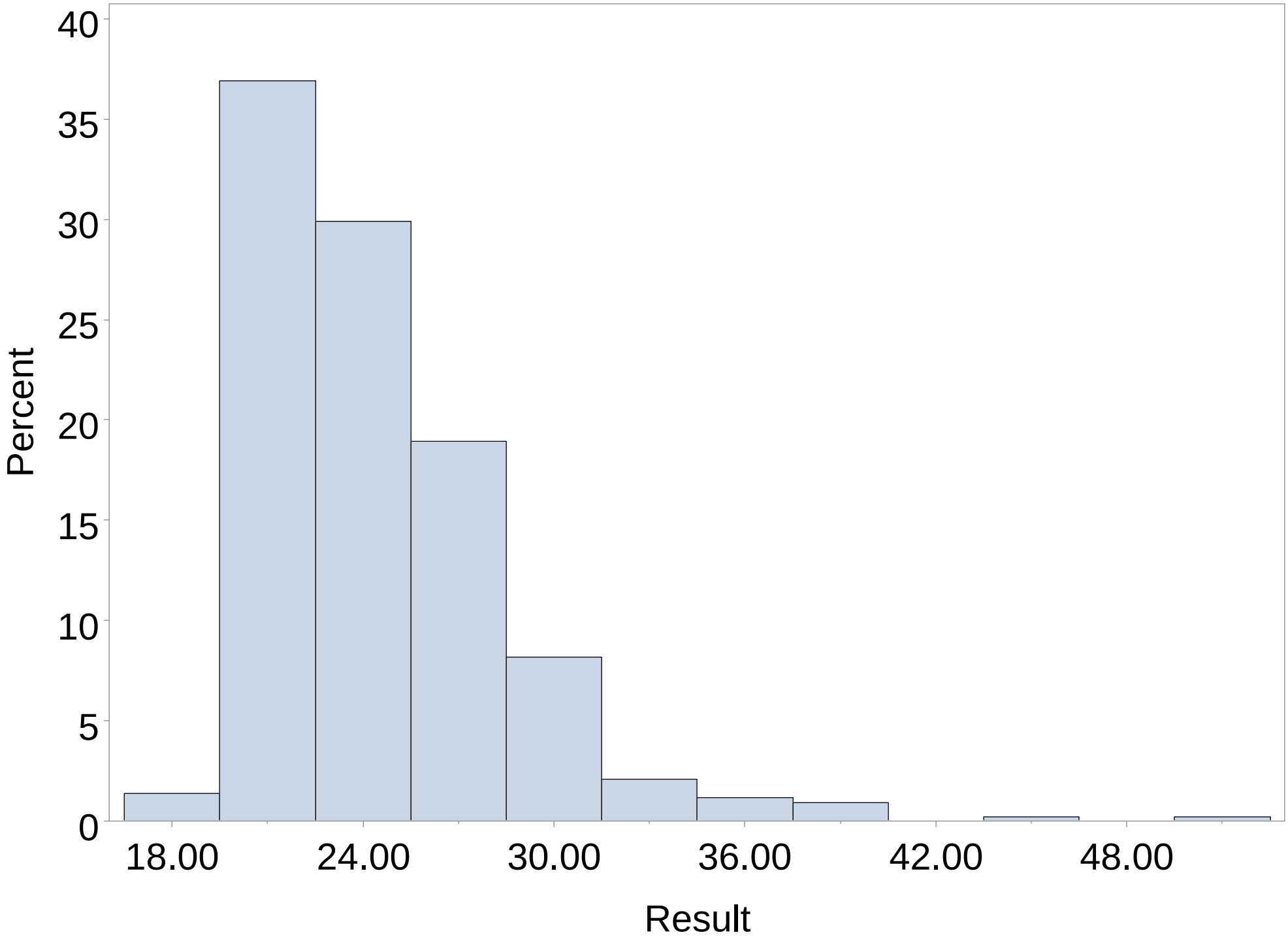
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	125.7793	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	51.5000
99%	37.8400
95%	31.4100
90%	29.1977
75% Q3	26.3600
50% Median	23.3902
25% Q1	21.7571
10%	20.4600
5%	20.0300
1%	19.1127
0% Min	17.9947

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17.9947	39585	37.84	39670
18.4493	39587	38.40	39827
18.4838	39491	39.83	39765
18.8290	39505	46.12	39647
19.1127	39581	51.50	39804


Parameter=Bottom Salinity (psu) Sample Location=20 psu
Percent
40
35
30
25
20
15
10
5
0
18.00
24.00
30.00
36.00
42.00
48.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	0.40224215	**Sum Observations**	89.7
Std Deviation	0.71213193	**Variance**	0.50713189
Skewness	6.03406296	**Kurtosis**	41.456281
Uncorrected SS	148.6644	**Corrected SS**	112.583279
Coeff Variation	177.040603	**Std Error Mean**	0.04768788

Basic Statistical Measures			
Location		**Variability**	
Mean	0.402242	**Std Deviation**	0.71213
Median	0.250000	**Variance**	0.50713
Mode	0.120000	**Range**	6.17000
		Interquartile Range	0.18000

Note: The mode displayed is the smallest of 3 modes with a count of 11.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.434893	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

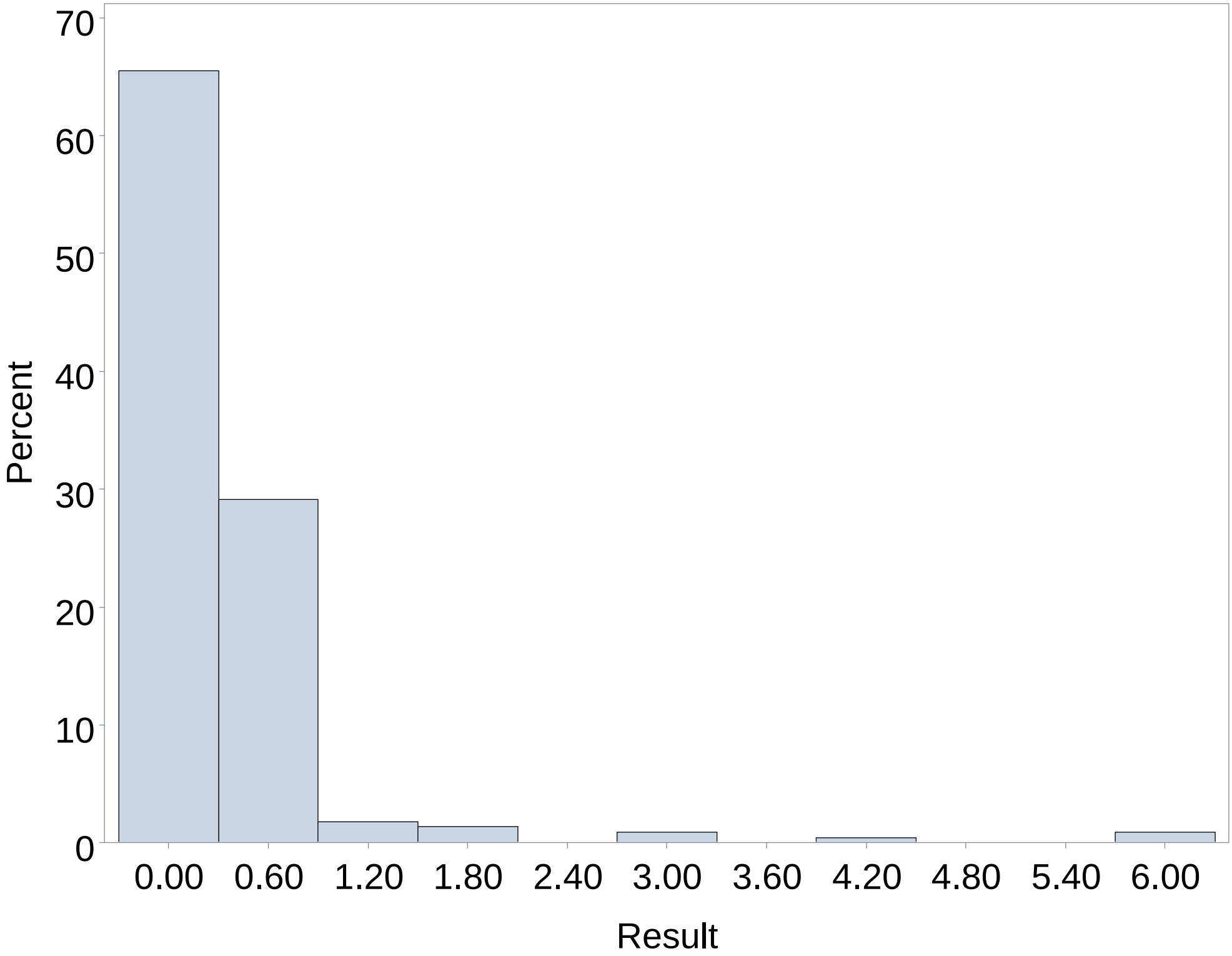
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.17
99%	4.03
95%	1.22
90%	0.54
75% Q3	0.35
50% Median	0.25
25% Q1	0.17
10%	0.12
5%	0.11
1%	0.06
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	39835	3.06	39905
0.04	39885	3.29	39929
0.06	39884	4.03	39975
0.07	40040	6.10	39976
0.08	39873	6.17	39940

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.45	100.00


70
60
50
40
30
20
10
0
Percent
0.00
0.60
1.20
1.80
2.40
3.00
3.60
4.20
4.80
5.40
6.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	0.23966389	**Sum Observations**	102.096819
Std Deviation	0.2908184	**Variance**	0.08457534
Skewness	4.17210137	**Kurtosis**	26.2862823
Uncorrected SS	60.4134418	**Corrected SS**	35.9445208
Coeff Variation	121.34427	**Std Error Mean**	0.0140902

Basic Statistical Measures			
Location		**Variability**	
Mean	0.239664	**Std Deviation**	0.29082
Median	0.240000	**Variance**	0.08458
Mode	0.000000	**Range**	2.86236
		Interquartile Range	0.25379

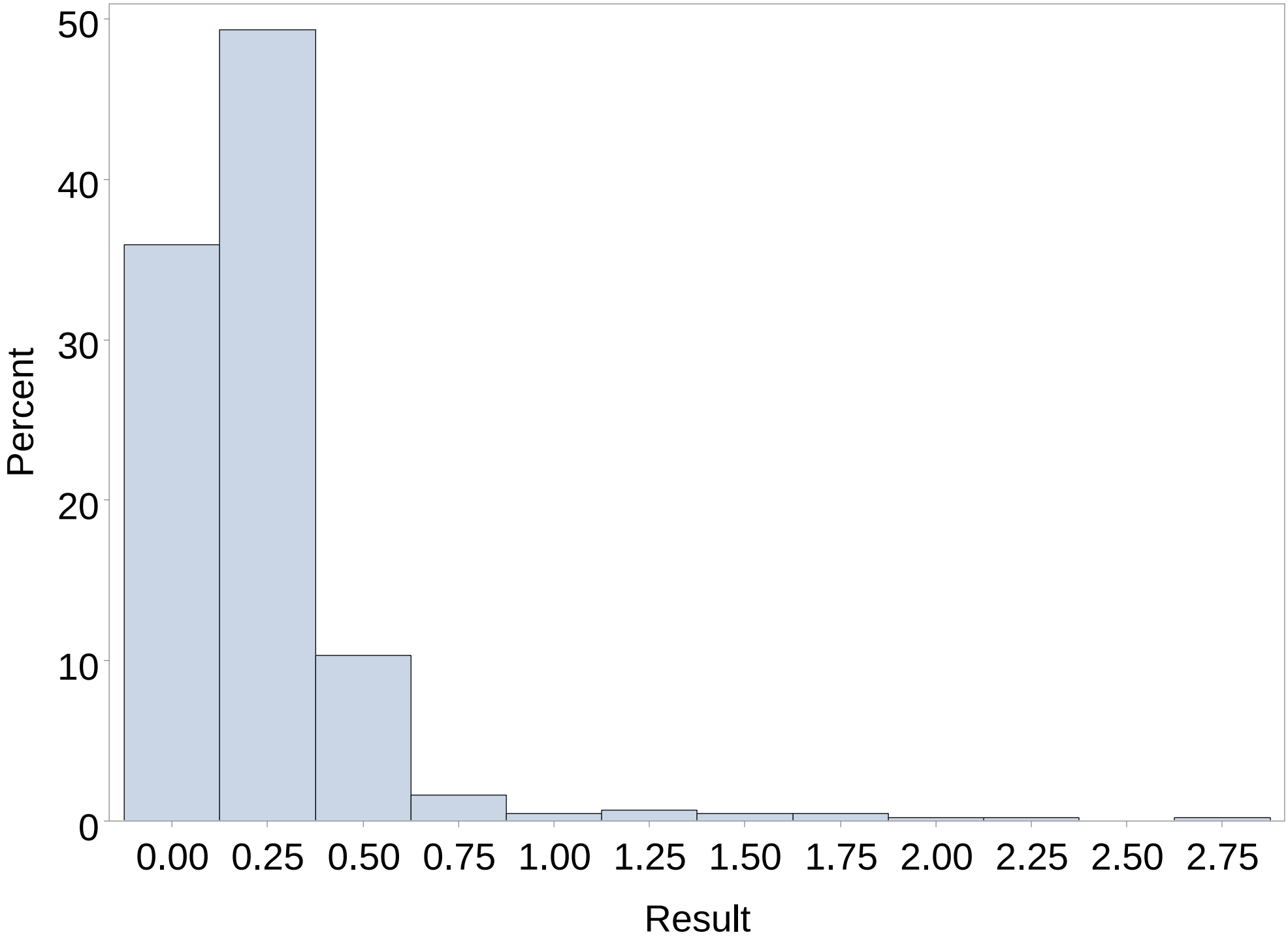
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.00926	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.8623628
99%	1.6700000
95%	0.5900000
90%	0.4300000
75% Q3	0.3000000
50% Median	0.2400000
25% Q1	0.0462079
10%	0.0000000
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	40263	1.67000	40366
0	40254	1.84252	40126
0	40253	1.90000	40401
0	40252	2.20000	40095
0	40251	2.86236	40260


Parameter=Surface Salinity (psu) Sample Location=0 psu
Percent
50
40
30
20
10
0
0.00
0.25
0.50
0.75
1.00
1.25
1.50
1.75
2.00
2.25
2.50
2.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	6.25520466	**Sum Observations**	2683.4828
Std Deviation	0.96639229	**Variance**	0.93391405
Skewness	0.38795974	**Kurtosis**	14.042359
Uncorrected SS	17185.4493	**Corrected SS**	399.715215
Coeff Variation	15.4494112	**Std Error Mean**	0.04665786

Basic Statistical Measures			
Location		**Variability**	
Mean	6.255205	**Std Deviation**	0.96639
Median	6.080000	**Variance**	0.93391
Mode	6.000000	**Range**	12.01000
		Interquartile Range	0.48902

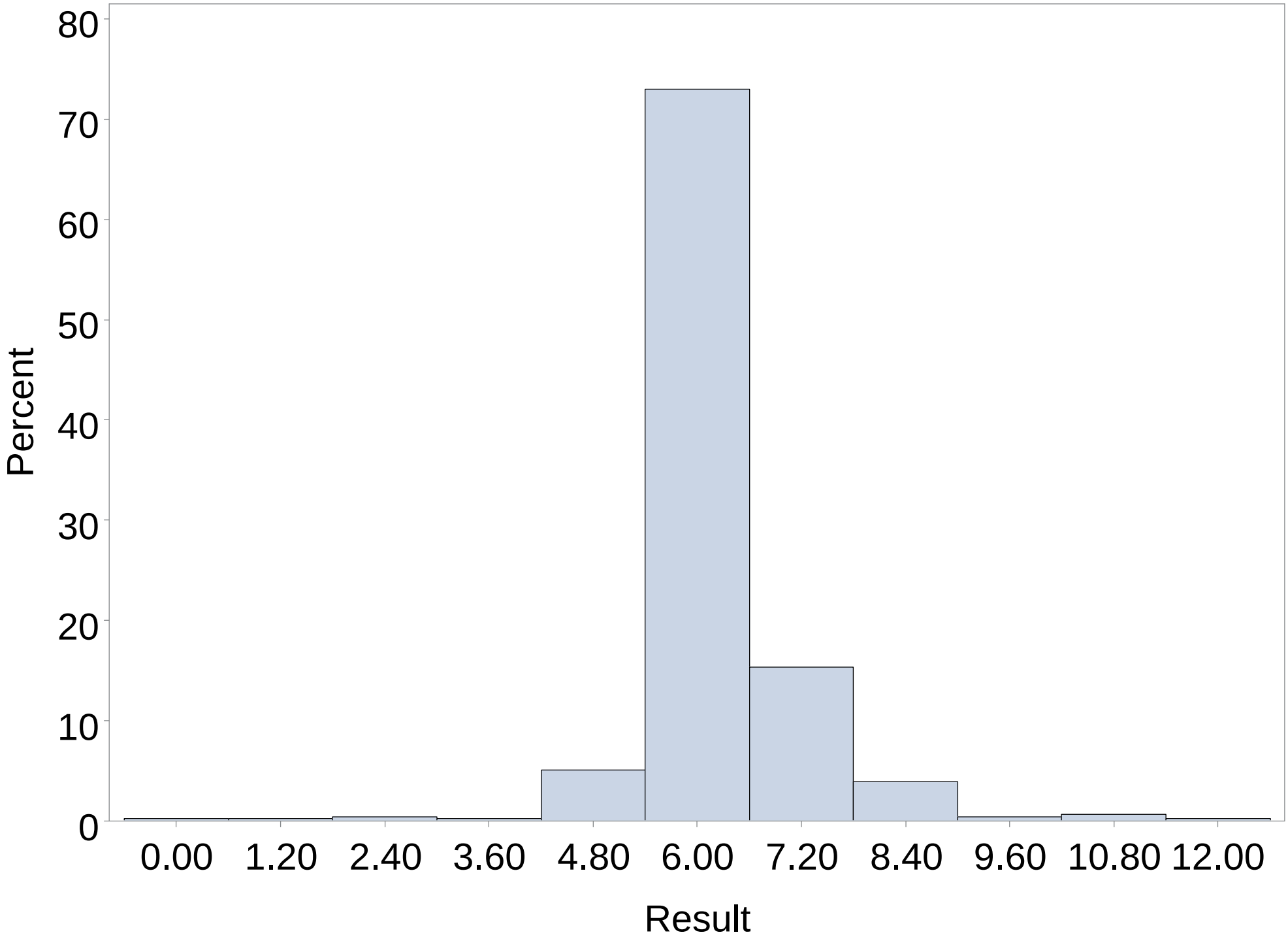
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	134.0654	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.01000
99%	9.60000
95%	7.87147
90%	7.14700
75% Q3	6.47902
50% Median	6.08000
25% Q1	5.99000
10%	5.63000
5%	5.30000
1%	4.08266
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.000000	40658	9.6000	40514
0.699184	40660	10.6410	40562
2.000000	40508	11.1479	40676
2.600000	40527	11.2261	40643
4.082656	40609	12.0100	40742


Parameter=Surface Salinity (psu) Sample Location=6 psu
Percent
80
70
60
50
40
30
20
10
0
0.00
1.20
2.40
3.60
4.80
6.00
7.20
8.40
9.60
10.80
12.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	12.2987284	**Sum Observations**	5263.85576
Std Deviation	1.16752428	**Variance**	1.36311294
Skewness	-0.7258276	**Kurtosis**	20.1129052
Uncorrected SS	65320.7817	**Corrected SS**	582.049223
Coeff Variation	9.49304868	**Std Error Mean**	0.05643442

Basic Statistical Measures			
Location		**Variability**	
Mean	12.29873	**Std Deviation**	1.16752
Median	12.10000	**Variance**	1.36311
Mode	12.01000	**Range**	16.05453
		Interquartile Range	0.56149

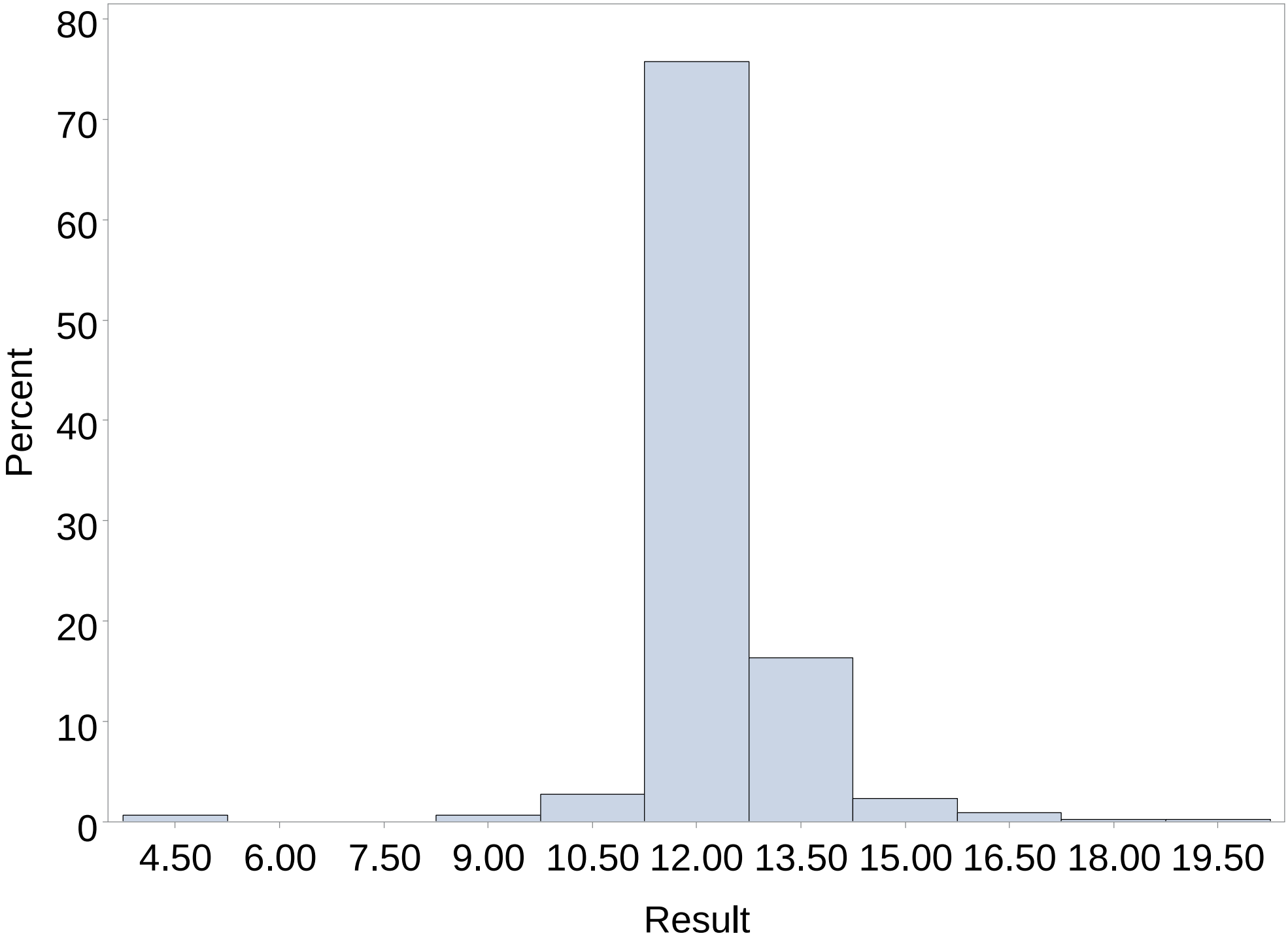
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	217.9296	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.92484
99%	16.00000
95%	14.00126
90%	13.39951
75% Q3	12.54149
50% Median	12.10000
25% Q1	11.98000
10%	11.59000
5%	11.30000
1%	9.33452
0% Min	3.87031

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.87031	41029	16.0000	41170
4.31961	40976	16.0881	40999
5.04274	41079	16.1000	40915
9.33452	40998	18.0016	40987
9.33452	40997	19.9248	41104


Parameter=Surface Salinity (psu) Sample Location=12 psu
Percent
80
70
60
50
40
30
20
10
0
4.50
6.00
7.50
9.00
10.50
12.00
13.50
15.00
16.50
18.00
19.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	20.453555	**Sum Observations**	8733.66798
Std Deviation	2.7276325	**Variance**	7.43997905
Skewness	15.6985989	**Kurtosis**	296.367807
Uncorrected SS	181803.989	**Corrected SS**	3169.43108
Coeff Variation	13.335738	**Std Error Mean**	0.13199939

Basic Statistical Measures			
Location		**Variability**	
Mean	20.45355	**Std Deviation**	2.72763
Median	20.10000	**Variance**	7.43998
Mode	20.01000	**Range**	60.18200
		Interquartile Range	0.78000

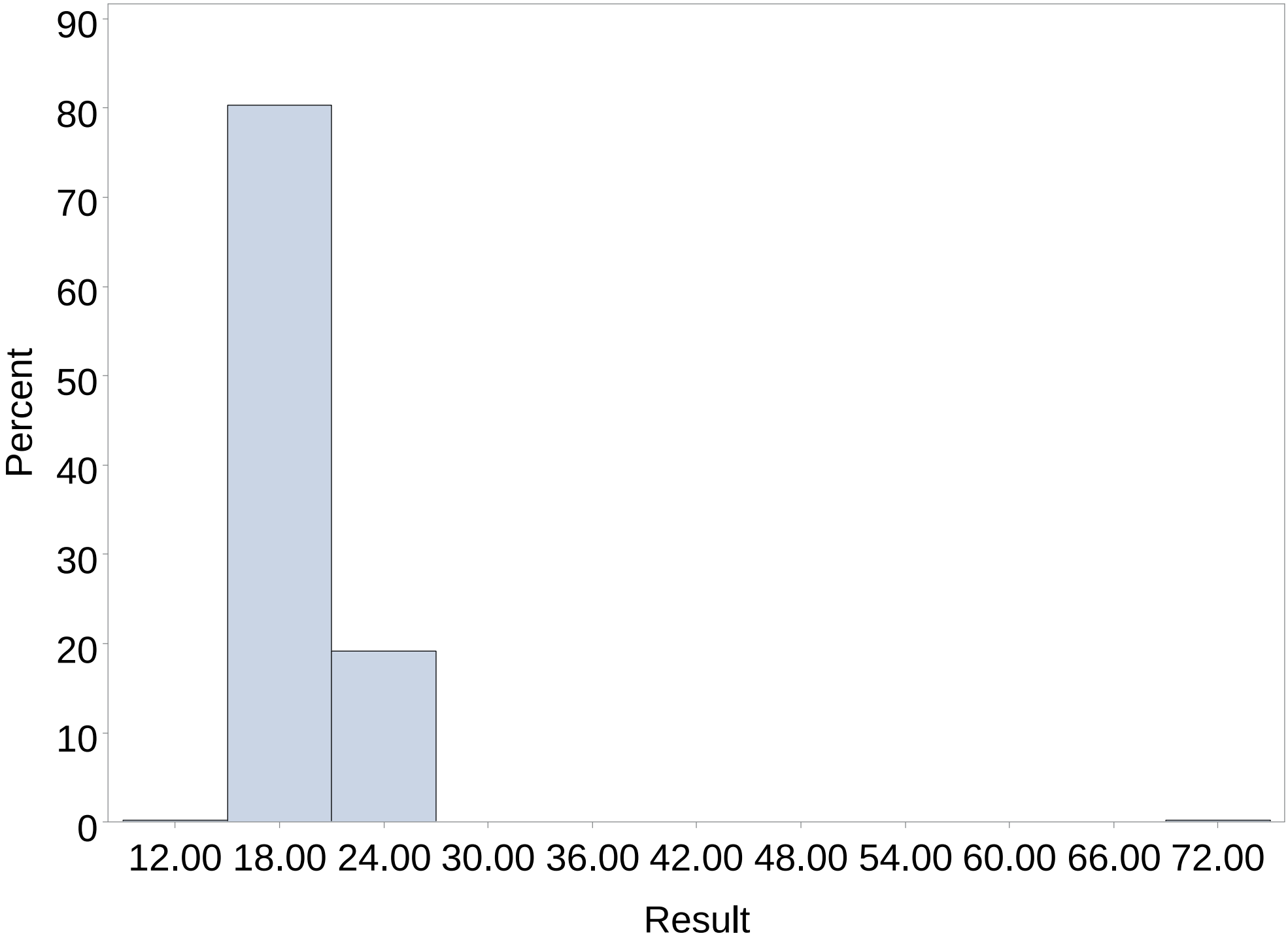
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	154.9519	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	71.8000
99%	23.8000
95%	22.3203
90%	21.6166
75% Q3	20.7500
50% Median	20.1000
25% Q1	19.9700
10%	19.5000
5%	18.8290
1%	17.8641
0% Min	11.6180

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.6180	41506	23.8000	41623
16.2103	41519	23.8772	41467
17.2469	41400	25.9475	41415
17.7268	41436	26.4500	41701
17.8641	41399	71.8000	41376


Parameter=Surface Salinity (psu) Sample Location=20 psu
Percent
90
80
70
60
50
40
30
20
10
0
12.00 18.00 24.00 30.00 36.00 42.00 48.00 54.00 60.00 66.00 72.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	0.38152466	**Sum Observations**	85.08
Std Deviation	0.62963768	**Variance**	0.39644361
Skewness	6.18387776	**Kurtosis**	43.8983991
Uncorrected SS	120.4706	**Corrected SS**	88.0104816
Coeff Variation	165.031974	**Std Error Mean**	0.04216366

Basic Statistical Measures			
Location		**Variability**	
Mean	0.381525	**Std Deviation**	0.62964
Median	0.250000	**Variance**	0.39644
Mode	0.120000	**Range**	5.71000
		Interquartile Range	0.19000

Note: The mode displayed is the smallest of 3 modes with a count of 11.

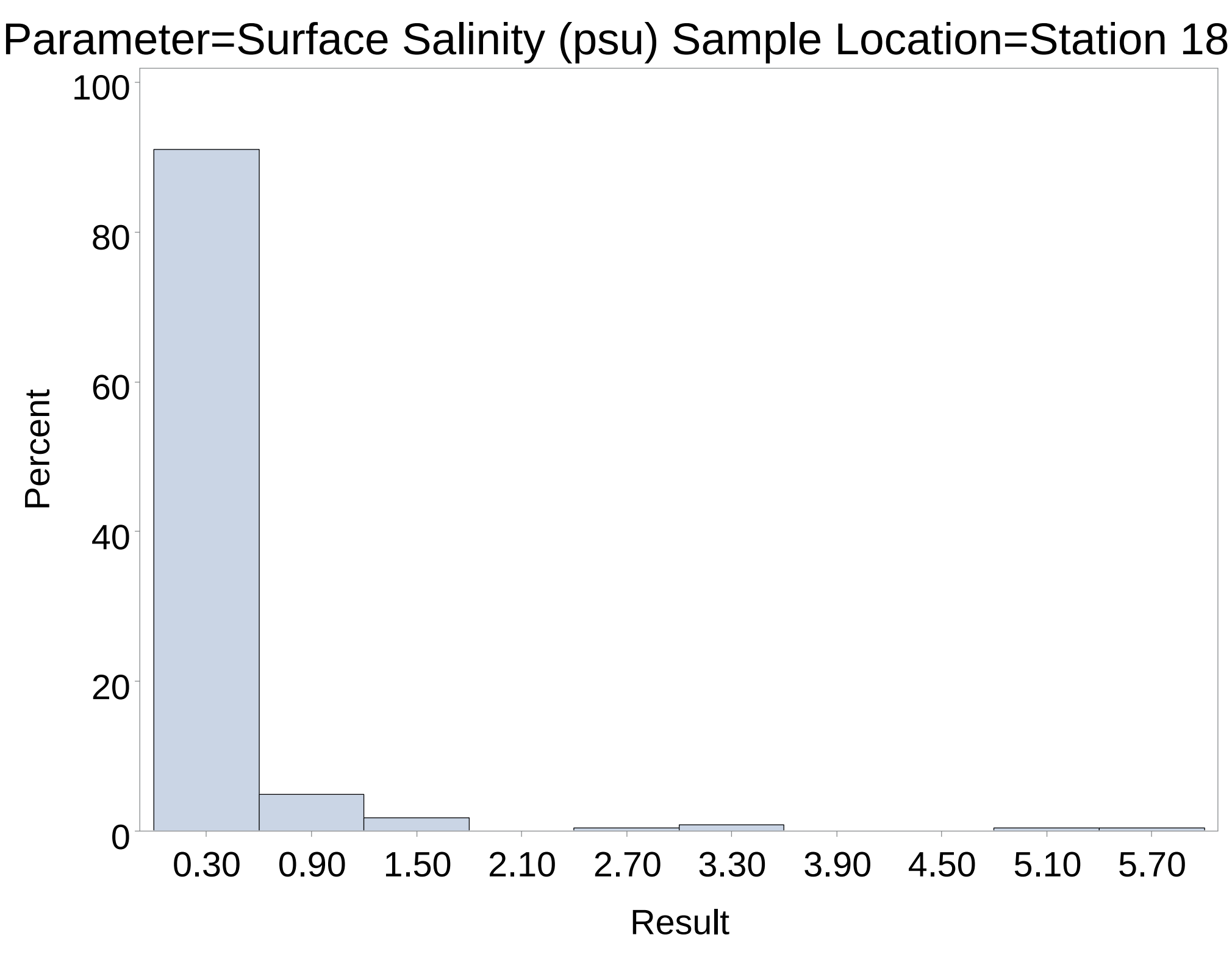
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.048661	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.71
99%	3.47
95%	1.11
90%	0.56
75% Q3	0.36
50% Median	0.25
25% Q1	0.17
10%	0.12
5%	0.11
1%	0.06
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	41769	2.60	41839
0.04	41819	3.05	41863
0.06	41818	3.47	41909
0.07	41974	5.36	41910
0.08	41807	5.71	41874


Parameter=Surface Salinity (psu) Sample Location=Station 18
100
80
60
40
20
0
Percent
0.30
0.90
1.50
2.10
2.70
3.30
3.90
4.50
5.10
5.70
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=0 psu

Moments			
N	425	**Sum Weights**	425
Mean	4.55195059	**Sum Observations**	1934.579
Std Deviation	3.07976596	**Variance**	9.48495836
Skewness	1.0837857	**Kurtosis**	0.82450199
Uncorrected SS	12827.7304	**Corrected SS**	4021.62235
Coeff Variation	67.6581588	**Std Error Mean**	0.14939059

Basic Statistical Measures			
Location		**Variability**	
Mean	4.551951	**Std Deviation**	3.07977
Median	3.680000	**Variance**	9.48496
Mode	3.260000	**Range**	15.46000
		Interquartile Range	3.73000

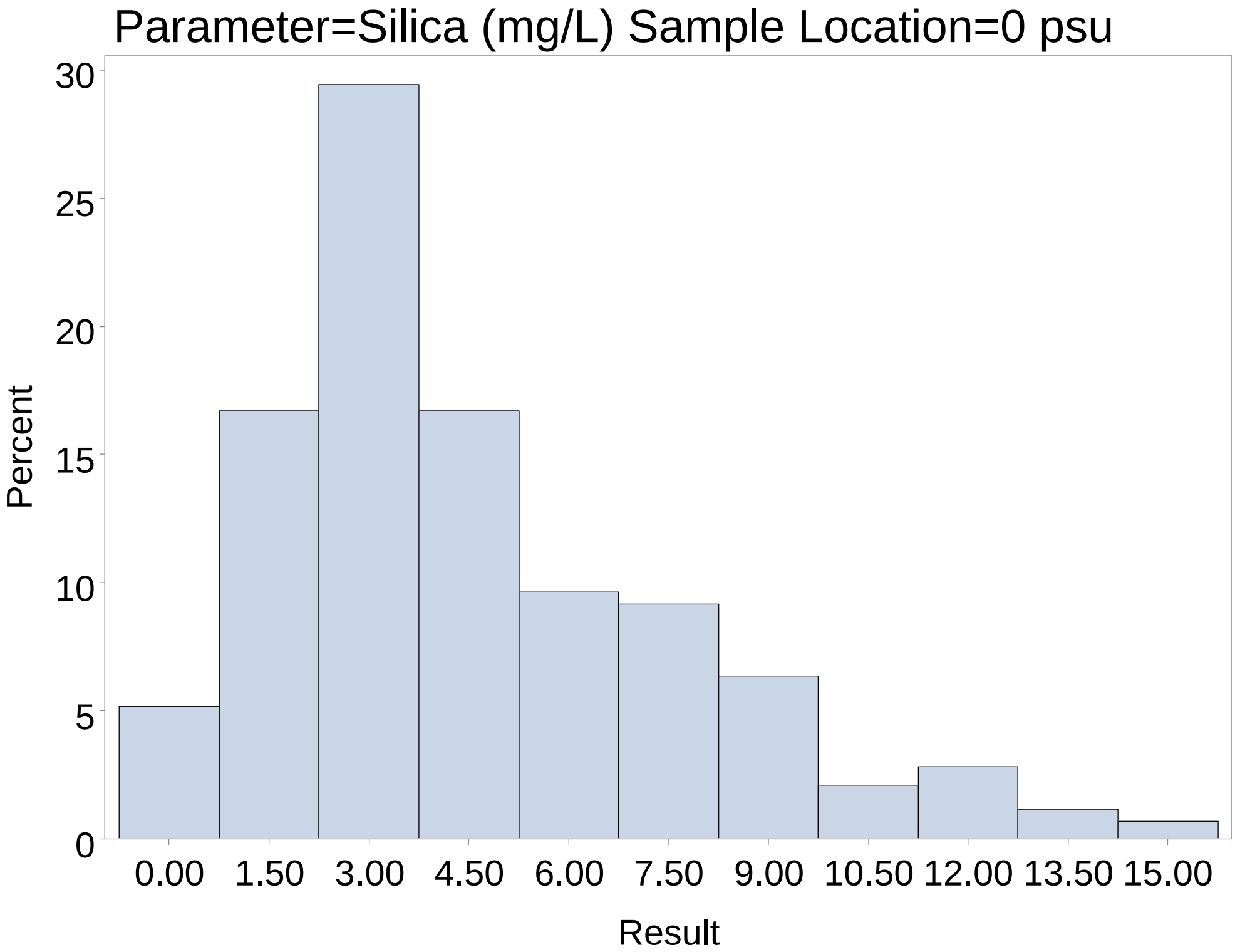
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.47013	**Pr > |t|**	<.0001
Sign	**M**	212.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45262.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.600
99%	13.500
95%	11.000
90%	9.190
75% Q3	6.180
50% Median	3.680
25% Q1	2.450
10%	1.220
5%	0.730
1%	0.337
0% Min	0.140

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.140	42012	13.5	42409
0.250	42155	13.7	42338
0.290	42052	15.1	42402
0.334	42202	15.5	42398
0.337	42298	15.6	42399


Parameter=Silica (mg/L) Sample Location=0 psu
Percent
30
25
20
15
10
5
0
0.00
1.50
3.00
4.50
6.00
7.50
9.00
10.50
12.00
13.50
15.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=6 psu

Moments			
N	426	**Sum Weights**	426
Mean	3.92819718	**Sum Observations**	1673.412
Std Deviation	2.56075267	**Variance**	6.55745425
Skewness	1.07007006	**Kurtosis**	0.52751243
Uncorrected SS	9360.41036	**Corrected SS**	2786.91806
Coeff Variation	65.1890054	**Std Error Mean**	0.12406887

Basic Statistical Measures			
Location		**Variability**	
Mean	3.928197	**Std Deviation**	2.56075
Median	3.140000	**Variance**	6.55745
Mode	1.870000	**Range**	13.53000
		Interquartile Range	3.43000

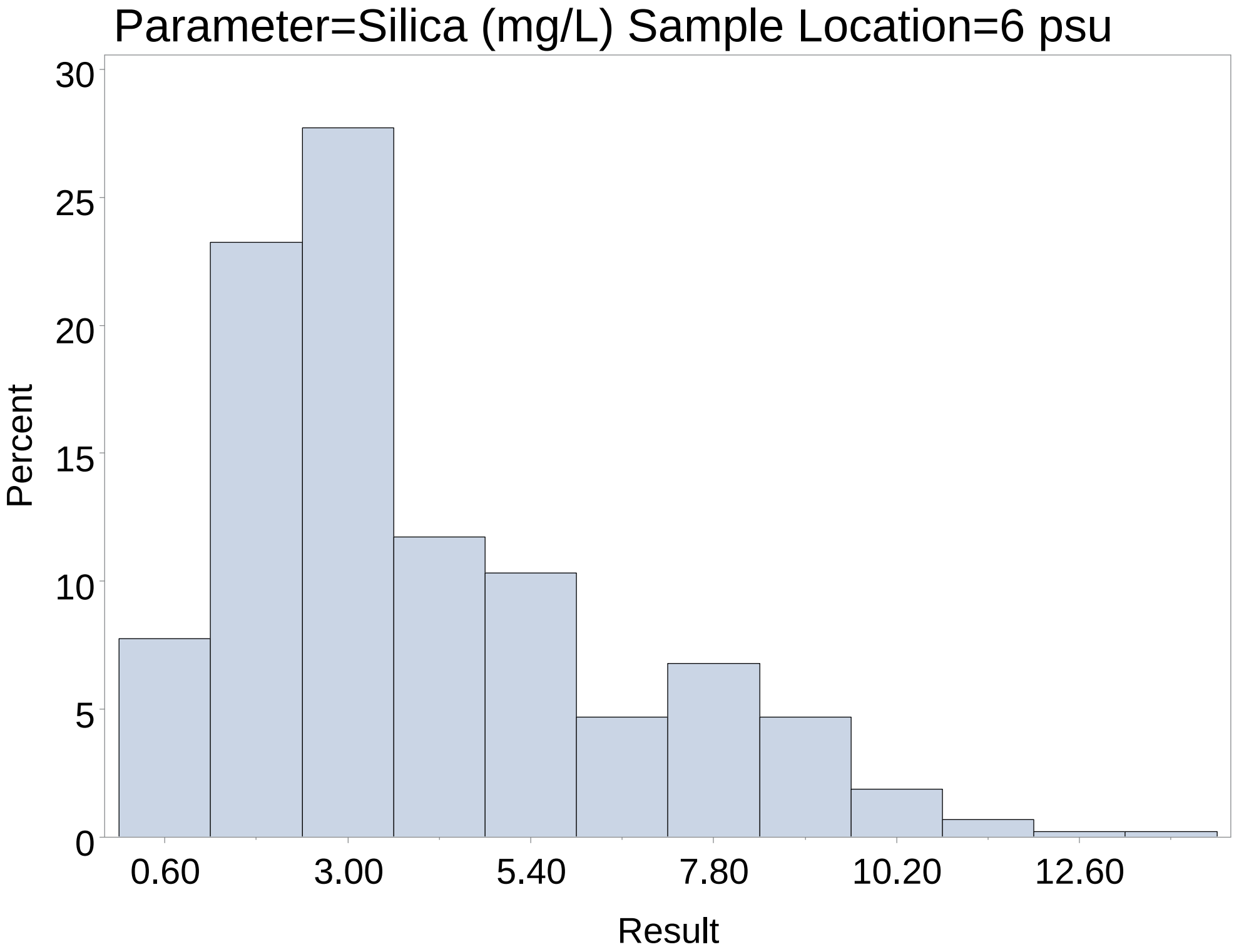
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.66142	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.900
99%	10.900
95%	9.080
90%	8.140
75% Q3	5.430
50% Median	3.140
25% Q1	2.000
10%	1.290
5%	1.070
1%	0.688
0% Min	0.370

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.370	42477	10.9	42719
0.460	42536	11.3	42754
0.600	42475	11.5	42825
0.650	42437	12.7	42824
0.688	42627	13.9	42718


Parameter=Silica (mg/L) Sample Location=6 psu
Percent
30
25
20
15
10
5
0
0.60
3.00
5.40
7.80
10.20
12.60
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=12 psu

Moments			
N	425	**Sum Weights**	425
Mean	3.24370353	**Sum Observations**	1378.574
Std Deviation	2.3148611	**Variance**	5.35858192
Skewness	1.1050365	**Kurtosis**	0.75999707
Uncorrected SS	6743.72408	**Corrected SS**	2272.03873
Coeff Variation	71.3647557	**Std Error Mean**	0.11228726

Basic Statistical Measures			
Location		**Variability**	
Mean	3.243704	**Std Deviation**	2.31486
Median	2.540000	**Variance**	5.35858
Mode	1.340000	**Range**	11.98700
		Interquartile Range	3.16000

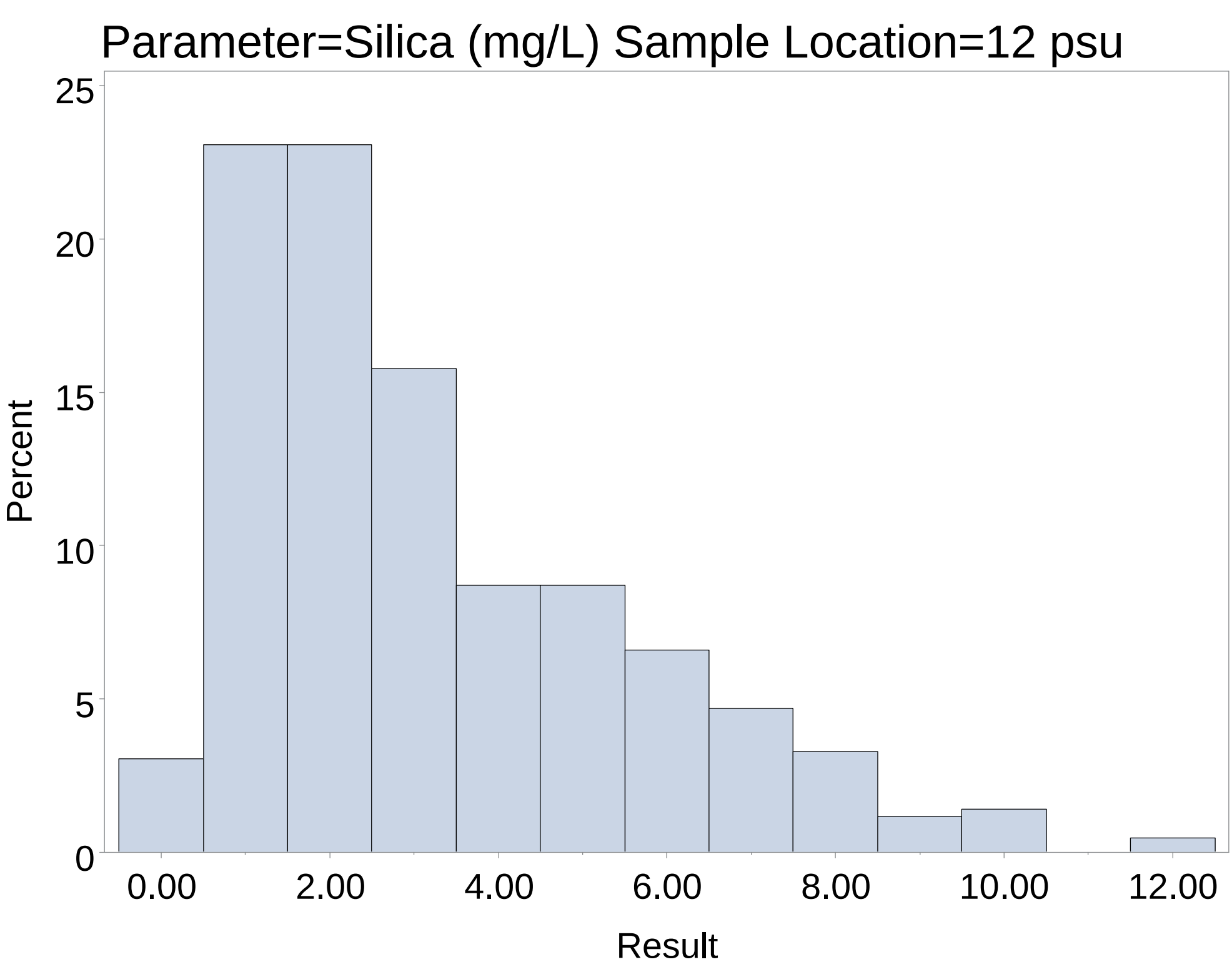
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.88755	**Pr > |t|**	<.0001
Sign	**M**	212.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45262.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.000
99%	9.980
95%	7.800
90%	6.790
75% Q3	4.600
50% Median	2.540
25% Q1	1.440
10%	0.940
5%	0.610
1%	0.170
0% Min	0.013

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.013	43068	9.98	43144
0.050	43042	10.00	43120
0.130	42900	10.10	43249
0.140	42852	11.80	43179
0.170	43029	12.00	43143


Parameter=Silica (mg/L) Sample Location=12 psu
Percent
25
20
15
10
5
0
0.00
2.00
4.00
6.00
8.00
10.00
12.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=20 psu

Moments			
N	426	**Sum Weights**	426
Mean	2.33189671	**Sum Observations**	993.388
Std Deviation	2.08188775	**Variance**	4.33425661
Skewness	1.41073631	**Kurtosis**	2.00026278
Uncorrected SS	4158.53727	**Corrected SS**	1842.05906
Coeff Variation	89.2787292	**Std Error Mean**	0.10086779

Basic Statistical Measures			
Location		**Variability**	
Mean	2.331897	**Std Deviation**	2.08189
Median	1.615000	**Variance**	4.33426
Mode	0.050000	**Range**	11.29000
		Interquartile Range	2.67000

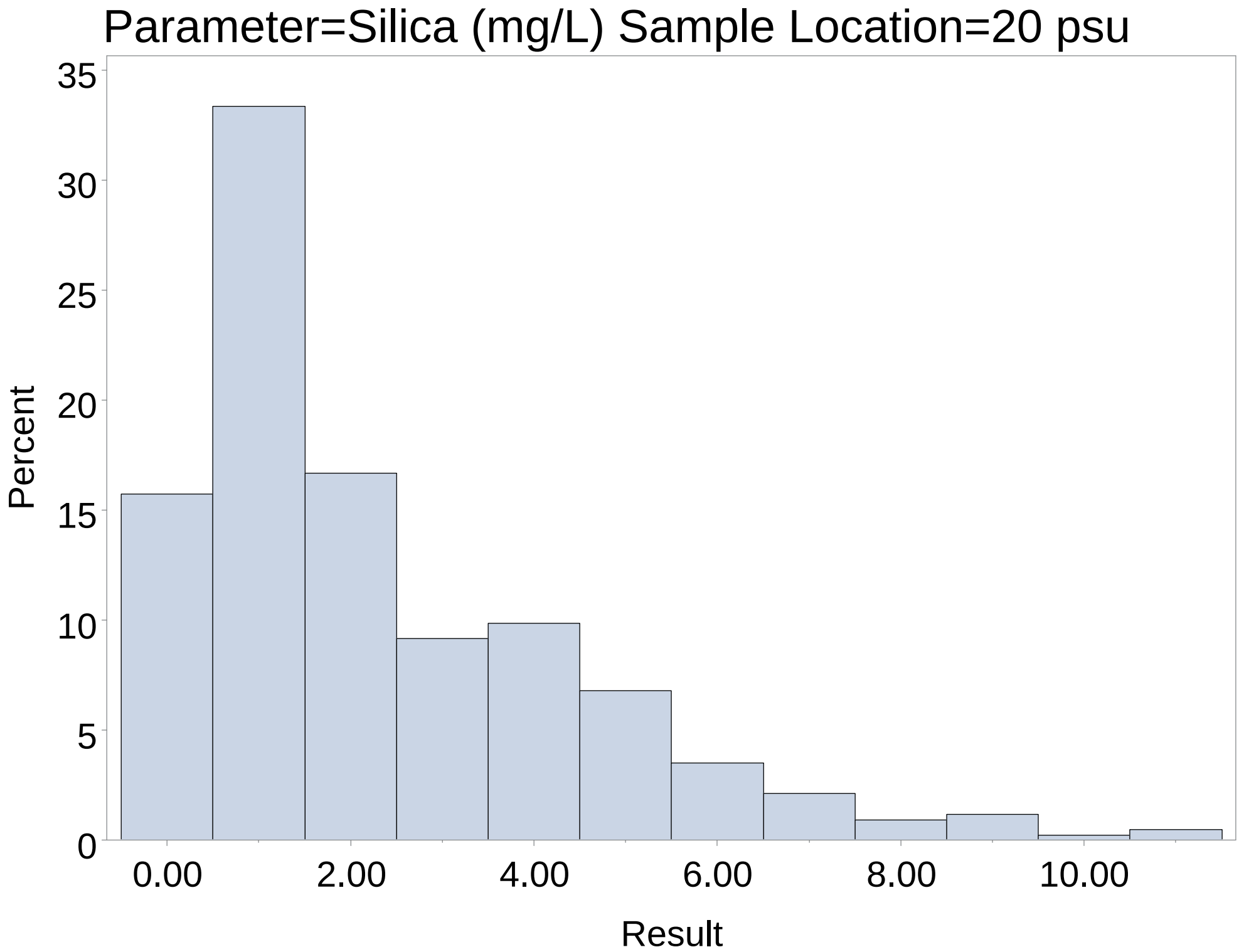
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.11835	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.300
99%	9.250
95%	6.290
90%	5.320
75% Q3	3.500
50% Median	1.615
25% Q1	0.830
10%	0.340
5%	0.140
1%	0.040
0% Min	0.010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	43377	9.25	43546
0.010	43301	9.33	43570
0.014	43514	9.70	43568
0.040	43325	10.60	43605
0.040	43285	11.30	43663


Parameter=Silica (mg/L) Sample Location=20 psu
Percent
35
30
25
20
15
10
5
0
0.00
2.00
4.00
6.00
8.00
10.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	6.19062115	**Sum Observations**	1405.271
Std Deviation	3.04406852	**Variance**	9.26635313
Skewness	0.19282102	**Kurtosis**	-0.519316
Uncorrected SS	10793.6962	**Corrected SS**	2094.19581
Coeff Variation	49.1722631	**Std Error Mean**	0.20204192

Basic Statistical Measures			
Location		**Variability**	
Mean	6.19062	**Std Deviation**	3.04407
Median	6.14000	**Variance**	9.26635
Mode	10.60000	**Range**	13.83900
		Interquartile Range	4.75000

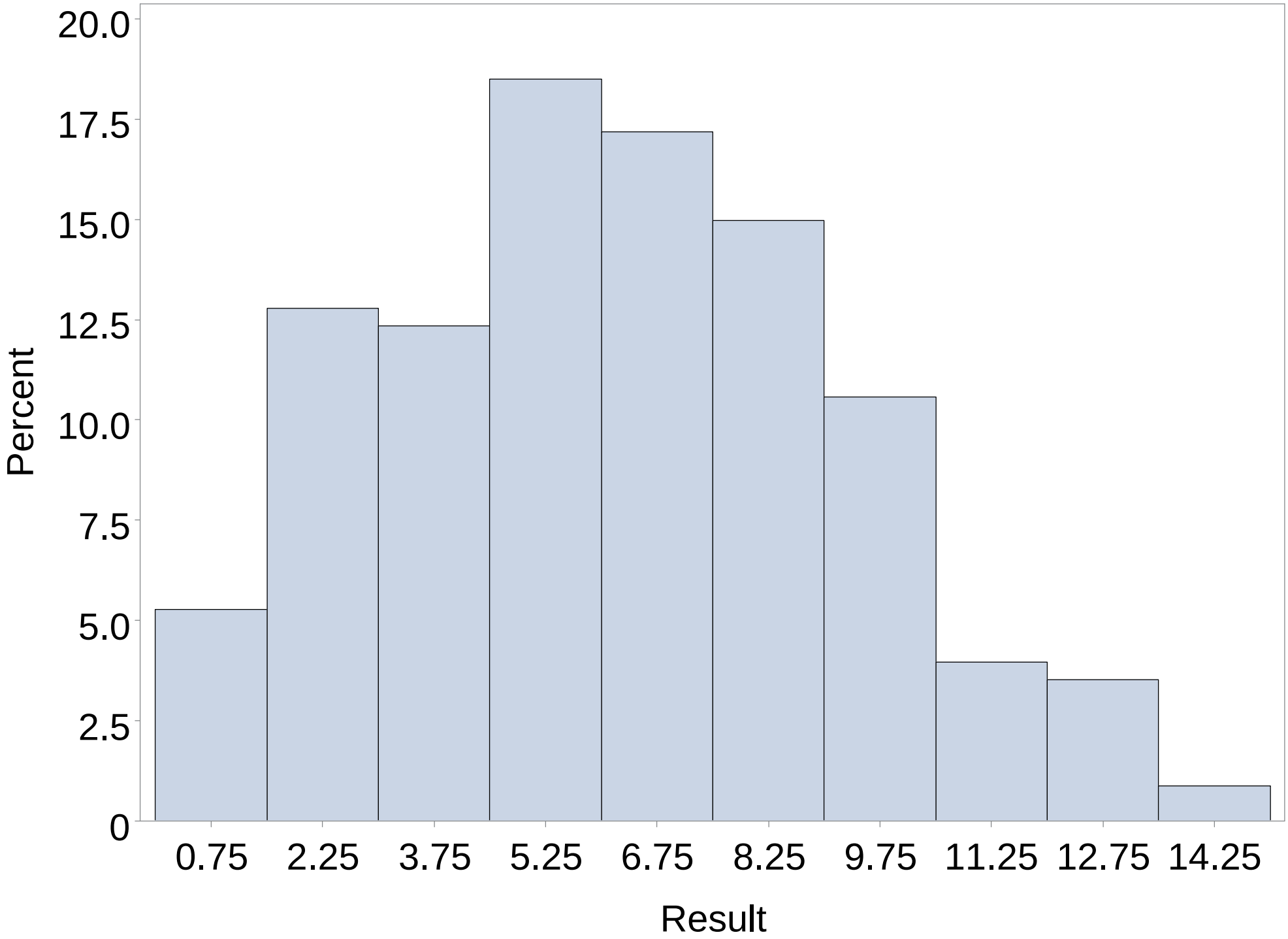
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.64028	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.200
99%	13.200
95%	11.700
90%	10.100
75% Q3	8.510
50% Median	6.140
25% Q1	3.760
10%	2.090
5%	1.450
1%	0.474
0% Min	0.361

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.361	43803	12.5	43914
0.461	43707	13.2	43798
0.474	43706	13.2	43907
0.548	43694	13.5	43797
0.610	43709	14.2	43904


Parameter=Silica (mg/L) Sample Location=Station 18
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Dissolved Solids (mg/L) Sample Location=Station 18

Moments			
N	95	**Sum Weights**	95
Mean	410.947368	**Sum Observations**	39040
Std Deviation	539.348452	**Variance**	290896.753
Skewness	5.74601071	**Kurtosis**	37.1925504
Uncorrected SS	43387680	**Corrected SS**	27344294.7
Coeff Variation	131.245141	**Std Error Mean**	55.3359836

Basic Statistical Measures			
Location		**Variability**	
Mean	410.9474	**Std Deviation**	539.34845
Median	300.0000	**Variance**	290897
Mode	276.0000	**Range**	4296
		Interquartile Range	132.00000

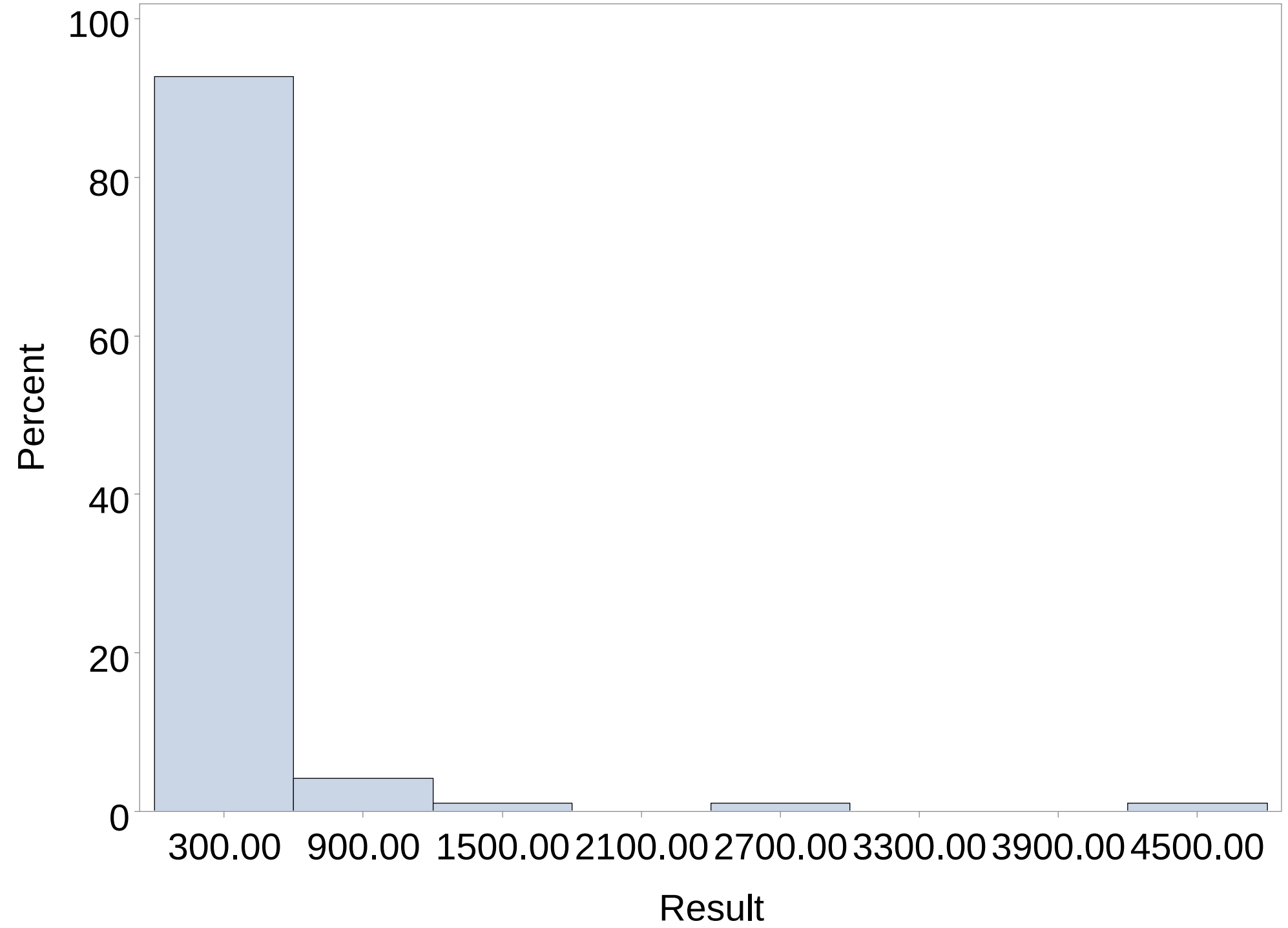
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.426404	**Pr > |t|**	<.0001
Sign	**M**	47.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2280	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4408
99%	4408
95%	1024
90%	496
75% Q3	364
50% Median	300
25% Q1	232
10%	188
5%	164
1%	112
0% Min	112

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Dissolved Solids (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
112	44000	1024	43937
124	43941	1132	43996
136	43988	1680	43925
152	43985	2960	43935
164	43987	4408	43936


Parameter=Total Dissolved Solids (mg/L) Sample Location=Station 18
100
80
60
40
20
0
Percent
300.00
900.00
1500.00
2100.00
2700.00
3300.00
3900.00
4500.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=0 psu

Moments			
N	427	**Sum Weights**	427
Mean	24.6223185	**Sum Observations**	10513.73
Std Deviation	4.50073766	**Variance**	20.2566394
Skewness	-0.5426601	**Kurtosis**	-0.6164319
Uncorrected SS	267501.737	**Corrected SS**	8629.3284
Coeff Variation	18.2790977	**Std Error Mean**	0.21780596

Basic Statistical Measures			
Location		**Variability**	
Mean	24.62232	**Std Deviation**	4.50074
Median	25.60000	**Variance**	20.25664
Mode	28.90000	**Range**	22.81000
		Interquartile Range	7.52000

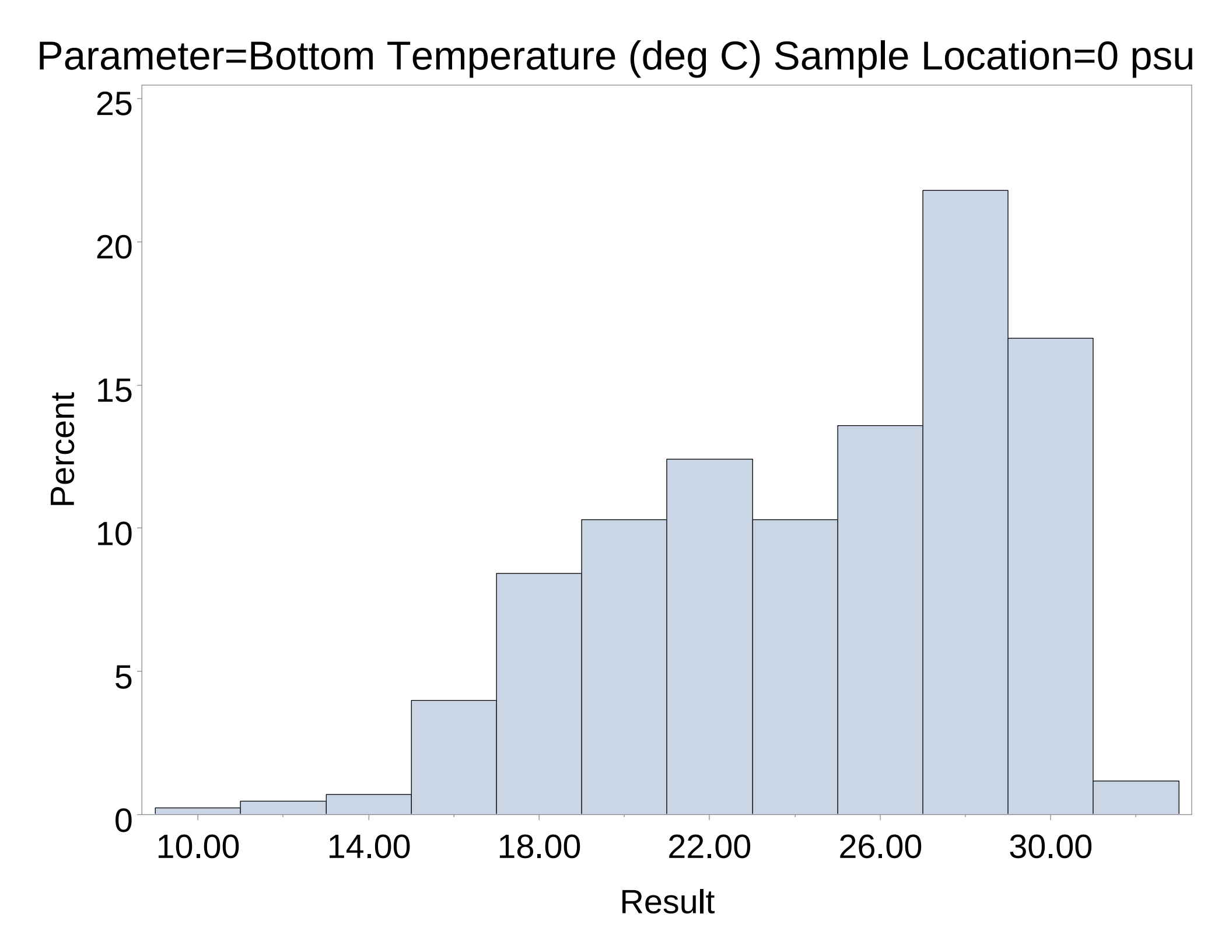
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	113.047	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.47
99%	31.00
95%	30.26
90%	29.68
75% Q3	28.65
50% Median	25.60
25% Q1	21.13
10%	17.87
5%	16.80
1%	14.61
0% Min	9.66

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.66	44332	31.00	44410
11.50	44343	31.28	44136
12.48	44225	31.29	44123
13.08	44356	31.41	44159
14.61	44237	32.47	44195


Parameter=Bottom Temperature (deg C) Sample Location=0 psu
25
20
15
10
5
0
Percent
10.00
14.00
18.00
22.00
26.00
30.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	24.8728904	**Sum Observations**	10670.47
Std Deviation	4.46242606	**Variance**	19.9132463
Skewness	-0.4818221	**Kurtosis**	-0.7614536
Uncorrected SS	273928.301	**Corrected SS**	8522.86942
Coeff Variation	17.9409227	**Std Error Mean**	0.21544796

Basic Statistical Measures			
Location		**Variability**	
Mean	24.87289	**Std Deviation**	4.46243
Median	25.64000	**Variance**	19.91325
Mode	28.50000	**Range**	20.85000
		Interquartile Range	7.53000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

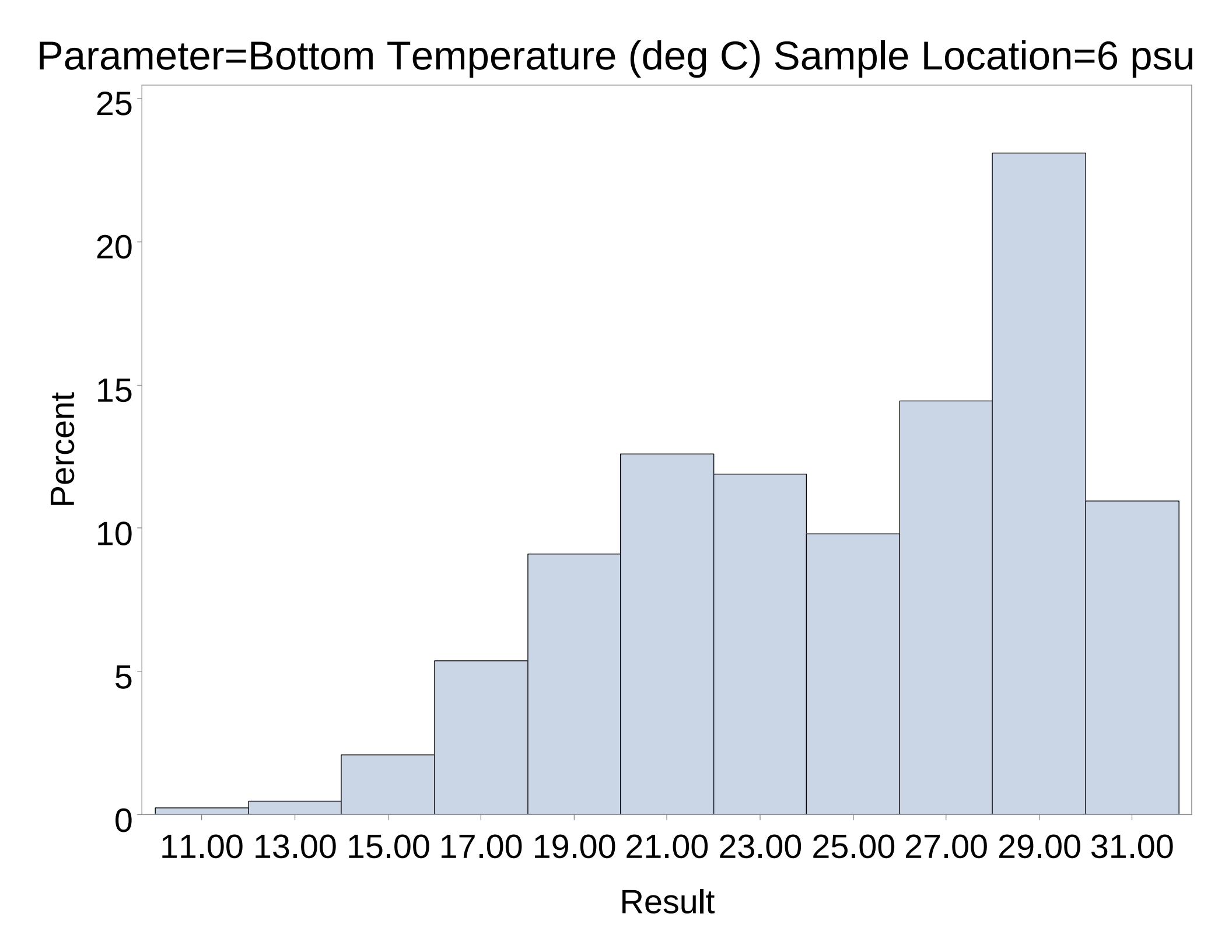
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	115.4473	**Pr > |t|**	<.0001
Sign	**M**	214.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	46117.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.60
99%	31.20
95%	30.58
90%	30.06
75% Q3	28.89
50% Median	25.64
25% Q1	21.36
10%	18.41
5%	17.13
1%	15.18
0% Min	10.75

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.75	44761	31.20	44839
12.87	44772	31.22	44816
13.41	44653	31.35	44792
14.20	44448	31.45	44624
15.18	44594	31.60	44623


Parameter=Bottom Temperature (deg C) Sample Location=6 psu
Percent
0
5
10
15
20
25
11.00
13.00
15.00
17.00
19.00
21.00
23.00
25.00
27.00
29.00
31.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	24.7663551	**Sum Observations**	10600
Std Deviation	4.58585477	**Variance**	21.030064
Skewness	-0.4747793	**Kurtosis**	-0.7994049
Uncorrected SS	271503.202	**Corrected SS**	8979.83731
Coeff Variation	18.5164702	**Std Error Mean**	0.22166566

Basic Statistical Measures			
Location		**Variability**	
Mean	24.76636	**Std Deviation**	4.58585
Median	25.50000	**Variance**	21.03006
Mode	23.90000	**Range**	20.55000
		Interquartile Range	7.58000

Note: The mode displayed is the smallest of 4 modes with a count of 4.

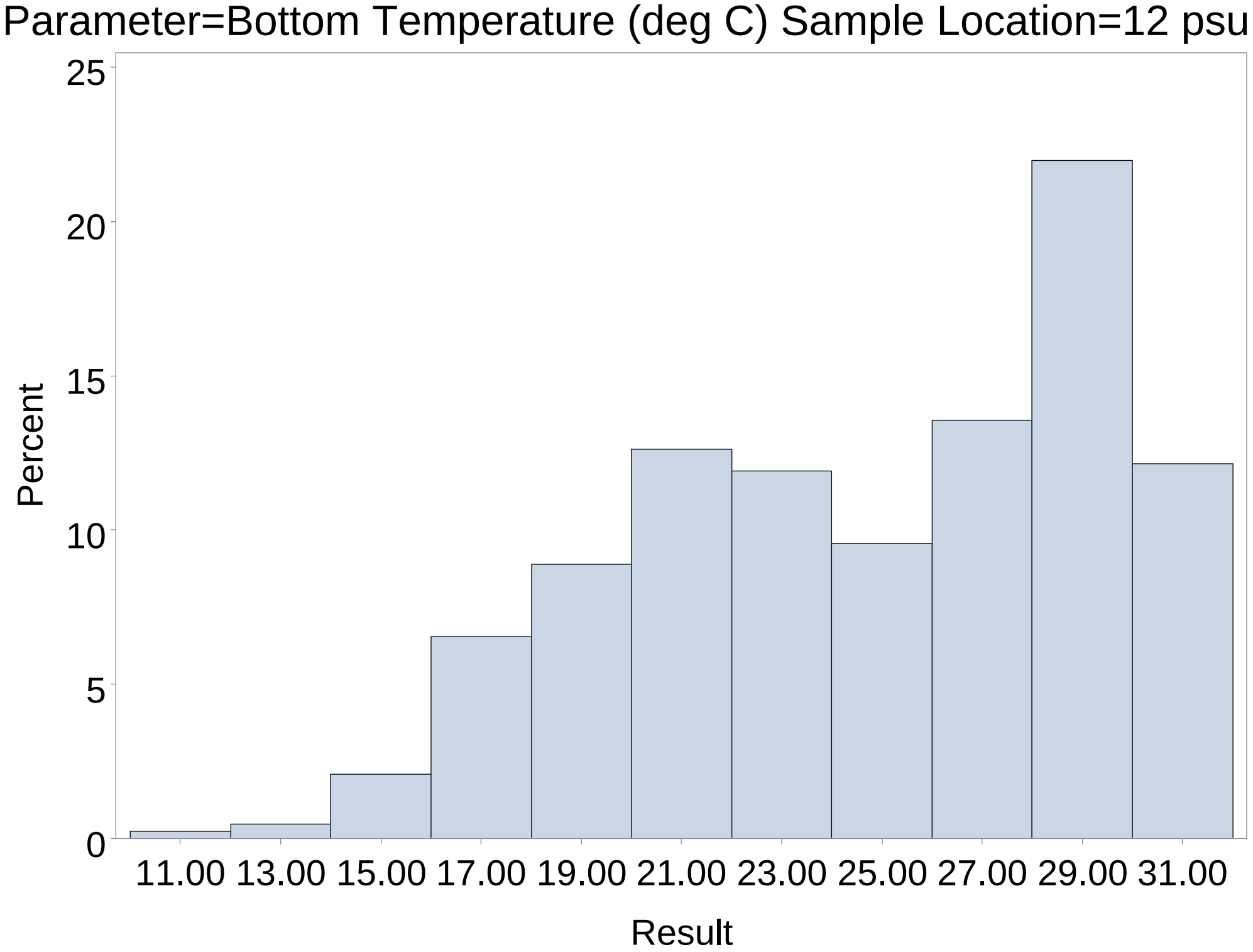
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	111.7284	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.54
99%	31.30
95%	30.55
90%	30.10
75% Q3	28.85
50% Median	25.50
25% Q1	21.27
10%	18.03
5%	16.40
1%	14.80
0% Min	10.99

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.99	45189	31.30	45052
12.42	45200	31.44	45159
13.32	45081	31.46	45160
14.04	45213	31.50	45015
14.80	44877	31.54	45051


Parameter=Bottom Temperature (deg C) Sample Location=12 psu
Percent
25
20
15
10
5
0
11.00
13.00
15.00
17.00
19.00
21.00
23.00
25.00
27.00
29.00
31.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=20 psu

Moments			
N	428	**Sum Weights**	428
Mean	24.6167991	**Sum Observations**	10535.99
Std Deviation	4.75836459	**Variance**	22.6420335
Skewness	-0.4800436	**Kurtosis**	-0.8231436
Uncorrected SS	269030.497	**Corrected SS**	9668.14831
Coeff Variation	19.3297454	**Std Error Mean**	0.23000423

Basic Statistical Measures			
Location		**Variability**	
Mean	24.61680	**Std Deviation**	4.75836
Median	25.50000	**Variance**	22.64203
Mode	19.20000	**Range**	21.16000
		Interquartile Range	8.08000

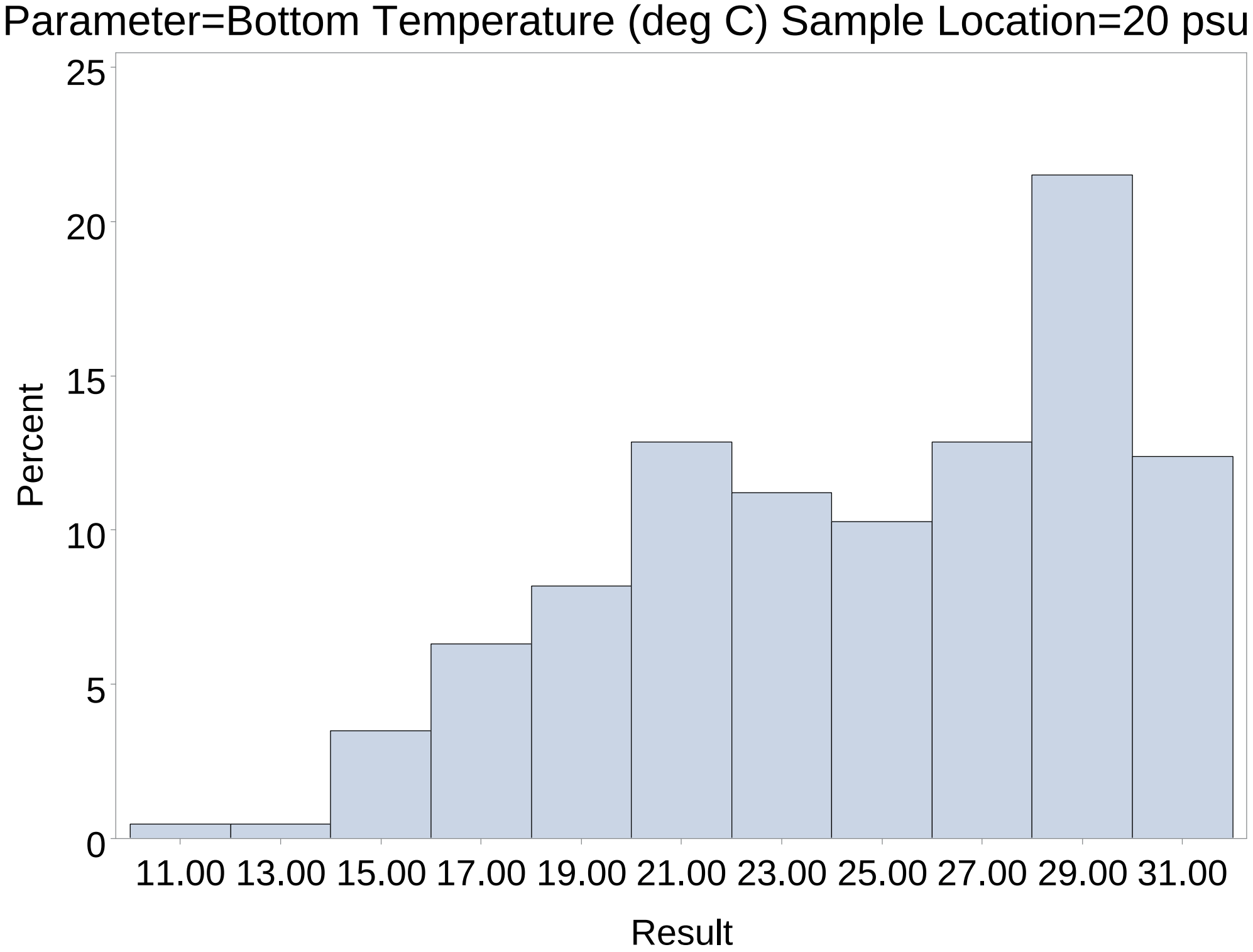
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	107.0276	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.600
99%	30.990
95%	30.560
90%	30.150
75% Q3	28.955
50% Median	25.500
25% Q1	20.875
10%	17.600
5%	16.470
1%	14.280
0% Min	10.440

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.44	45617	30.99	45505
11.73	45509	31.14	45395
12.05	45628	31.45	45480
13.71	45570	31.50	45695
14.28	45641	31.60	45301


Parameter=Bottom Temperature (deg C) Sample Location=20 psu
25
20
15
10
5
0
Percent
11.00 13.00 15.00 17.00 19.00 21.00 23.00 25.00 27.00 29.00 31.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	24.5563229	**Sum Observations**	5476.06
Std Deviation	4.41235386	**Variance**	19.4688666
Skewness	-0.7316028	**Kurtosis**	-0.0271054
Uncorrected SS	138793.986	**Corrected SS**	4322.08838
Coeff Variation	17.9683004	**Std Error Mean**	0.29547307

Basic Statistical Measures			
Location		**Variability**	
Mean	24.55632	**Std Deviation**	4.41235
Median	25.68000	**Variance**	19.46887
Mode	28.10000	**Range**	21.97000
		Interquartile Range	6.74000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	83.1085	**Pr > |t|**	<.0001
Sign	**M**	111.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12488	**Pr >= |S|**	<.0001

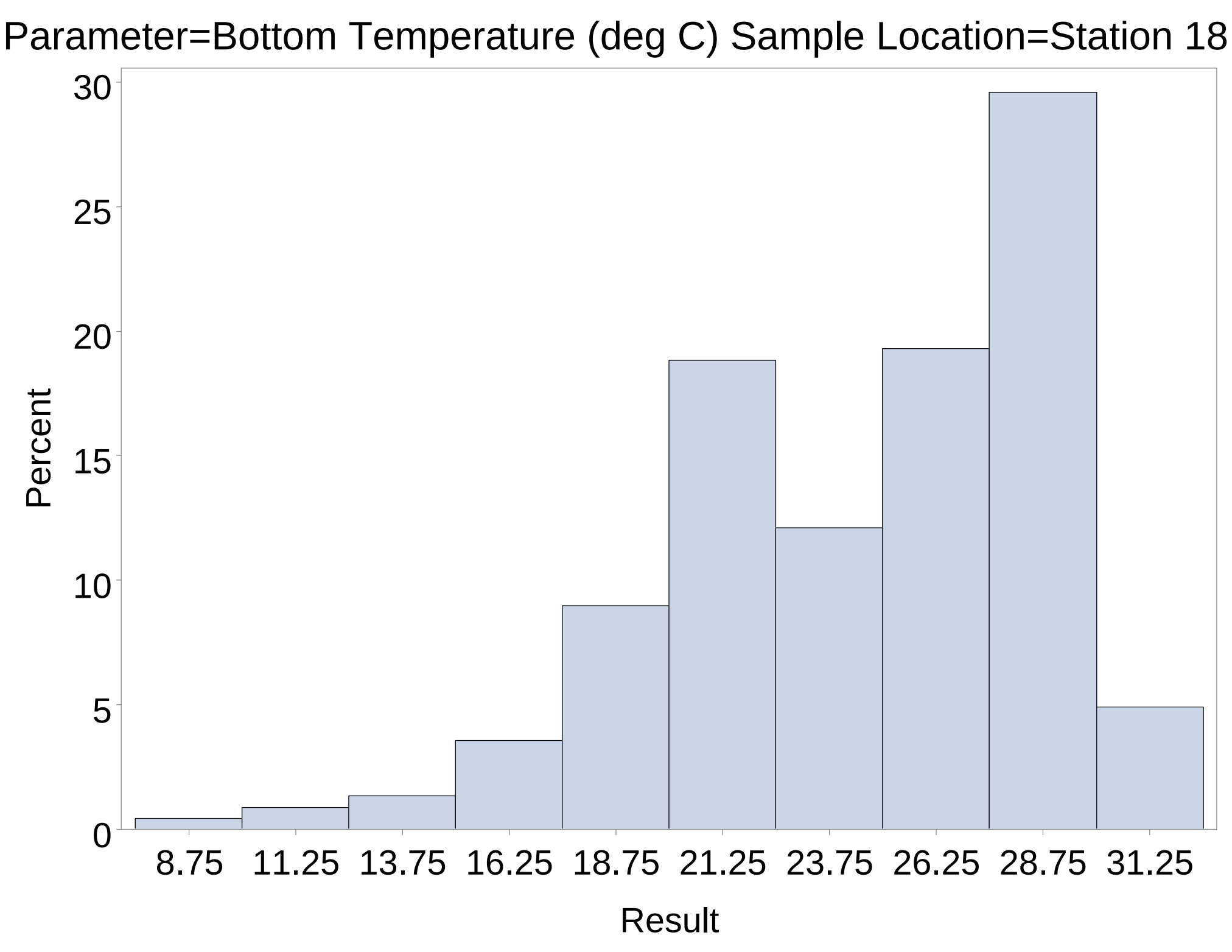
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.25
99%	31.06
95%	29.98
90%	29.26
75% Q3	28.34
50% Median	25.68
25% Q1	21.60
10%	18.40
5%	16.77
1%	12.31
0% Min	9.28

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.28	45841	30.51	45846
12.21	45733	30.86	45894
12.31	45852	31.06	45860
13.42	45757	31.24	45812
13.78	45865	31.25	45811

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.45	100.00


Parameter=Bottom Temperature (deg C) Sample Location=Station 18
Percent
30
25
20
15
10
5
0
8.75
11.25
13.75
16.25
18.75
21.25
23.75
26.25
28.75
31.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	24.97	**Sum Observations**	10637.22
Std Deviation	4.62972081	**Variance**	21.4343148
Skewness	-0.4983852	**Kurtosis**	-0.6447221
Uncorrected SS	274720.967	**Corrected SS**	9109.5838
Coeff Variation	18.5411326	**Std Error Mean**	0.22431071

Basic Statistical Measures			
Location		**Variability**	
Mean	24.97000	**Std Deviation**	4.62972
Median	25.77000	**Variance**	21.43431
Mode	28.90000	**Range**	24.31000
		Interquartile Range	7.56000

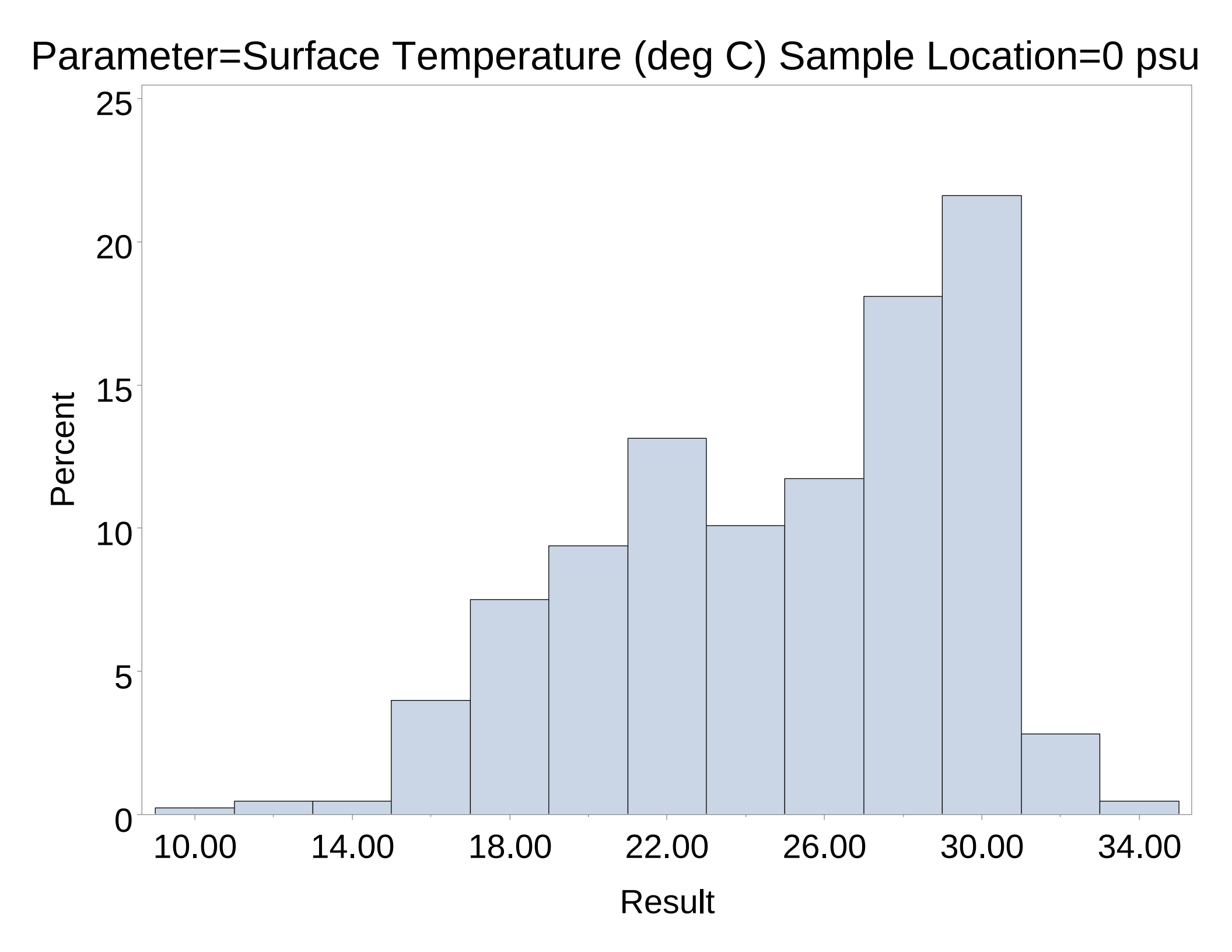
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	111.3188	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.88
99%	32.00
95%	30.80
90%	30.20
75% Q3	28.97
50% Median	25.77
25% Q1	21.41
10%	18.39
5%	16.98
1%	14.94
0% Min	9.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.57	46267	32.00	45976
11.54	46278	32.25	46095
12.51	46161	32.60	46345
13.45	46291	33.25	46059
14.94	46173	33.88	46131


Parameter=Surface Temperature (deg C) Sample Location=0 psu
Percent
25
20
15
10
5
0
10.00
14.00
18.00
22.00
26.00
30.00
34.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=6 psu

Moments			
N	429	**Sum Weights**	429
Mean	25.2626807	**Sum Observations**	10837.69
Std Deviation	4.65370238	**Variance**	21.6569458
Skewness	-0.4182498	**Kurtosis**	-0.8163405
Uncorrected SS	283058.274	**Corrected SS**	9269.17282
Coeff Variation	18.4212532	**Std Error Mean**	0.22468287

Basic Statistical Measures			
Location		**Variability**	
Mean	25.26268	**Std Deviation**	4.65370
Median	26.00000	**Variance**	21.65695
Mode	29.70000	**Range**	22.71000
		Interquartile Range	7.80000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

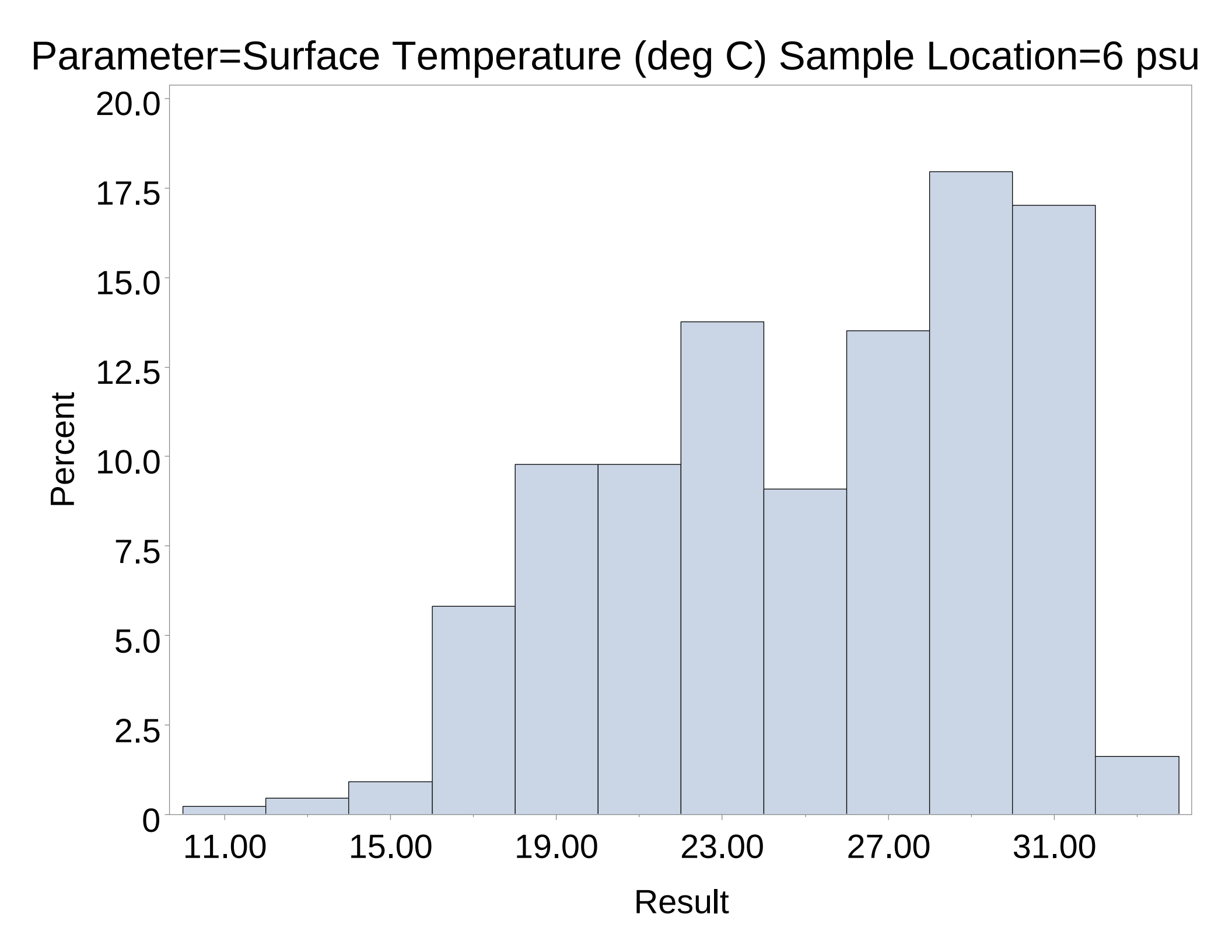
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	112.4371	**Pr > |t|**	<.0001
Sign	**M**	214.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	46117.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.60
99%	32.30
95%	31.34
90%	30.71
75% Q3	29.46
50% Median	26.00
25% Q1	21.66
10%	18.70
5%	17.20
1%	15.18
0% Min	10.89

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.89	46696	32.30	46391
13.09	46588	32.50	46787
13.24	46707	32.60	46416
15.10	46383	33.38	46558
15.18	46720	33.60	46642


Parameter=Surface Temperature (deg C) Sample Location=6 psu
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
11.00
15.00
19.00
23.00
27.00
31.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=12 psu

Moments			
N	428	**Sum Weights**	428
Mean	25.0904673	**Sum Observations**	10738.72
Std Deviation	4.68614319	**Variance**	21.959938
Skewness	-0.4304105	**Kurtosis**	-0.7784425
Uncorrected SS	278816.396	**Corrected SS**	9376.89351
Coeff Variation	18.6769865	**Std Error Mean**	0.22651328

Basic Statistical Measures			
Location		**Variability**	
Mean	25.09047	**Std Deviation**	4.68614
Median	25.70000	**Variance**	21.95994
Mode	22.21000	**Range**	22.17000
		Interquartile Range	7.68000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

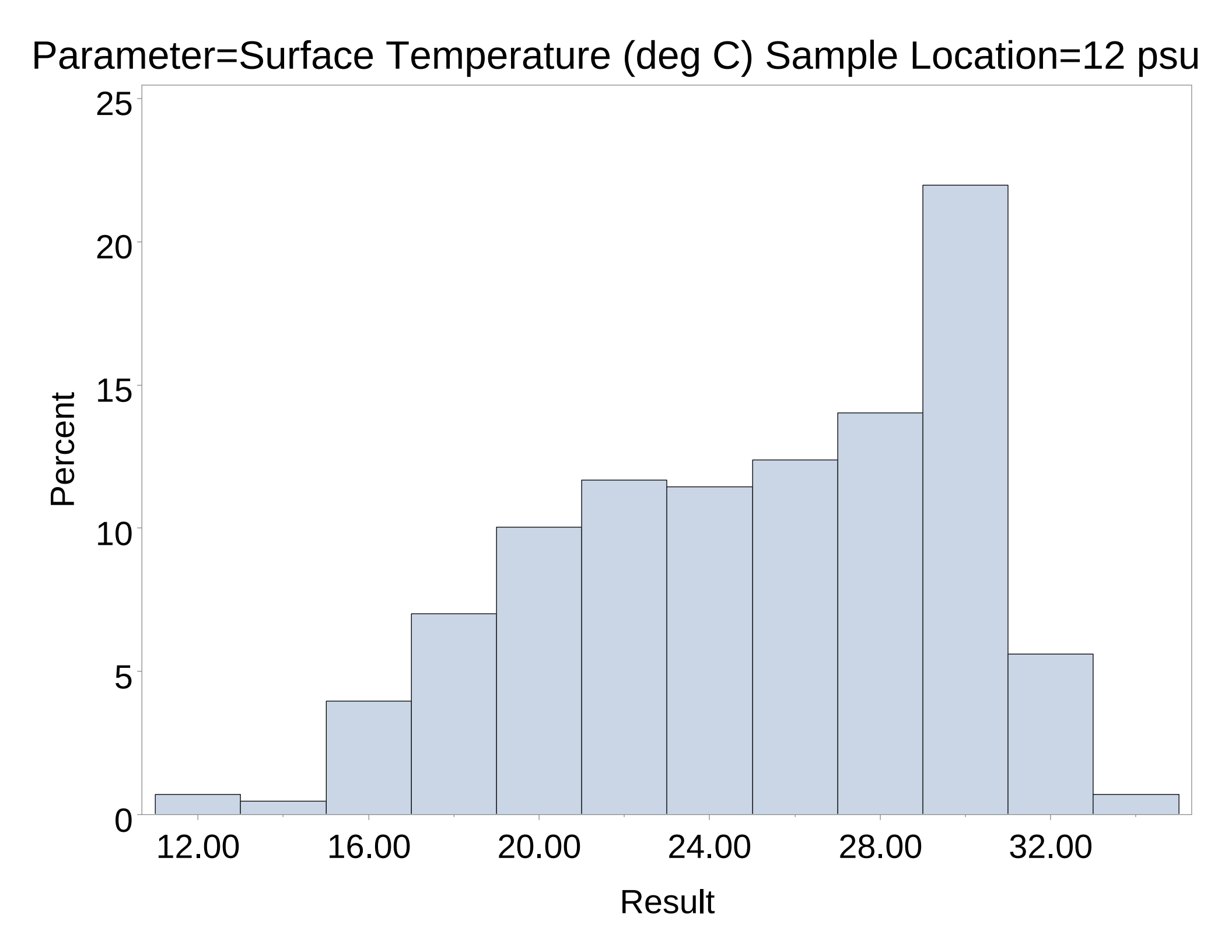
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.7682	**Pr > |t|**	<.0001
Sign	**M**	214	**Pr >= |M|**	<.0001
Signed Rank	**S**	45903	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.67
99%	32.35
95%	31.12
90%	30.59
75% Q3	29.30
50% Median	25.70
25% Q1	21.62
10%	18.64
5%	16.78
1%	14.60
0% Min	11.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.50	47124	32.35	47036
12.60	47016	32.50	46843
12.85	47135	33.02	47118
13.97	47148	33.30	46845
14.60	46838	33.67	46986


Parameter=Surface Temperature (deg C) Sample Location=12 psu
25
20
15
10
5
0
Percent
12.00
16.00
20.00
24.00
28.00
32.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	24.8084075	**Sum Observations**	10593.19
Std Deviation	4.7454671	**Variance**	22.519458
Skewness	-0.4651304	**Kurtosis**	-0.8223261
Uncorrected SS	272393.463	**Corrected SS**	9593.28912
Coeff Variation	19.1284632	**Std Error Mean**	0.22964925

Basic Statistical Measures			
Location		**Variability**	
Mean	24.80841	**Std Deviation**	4.74547
Median	25.61000	**Variance**	22.51946
Mode	26.00000	**Range**	21.59000
		Interquartile Range	7.81000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

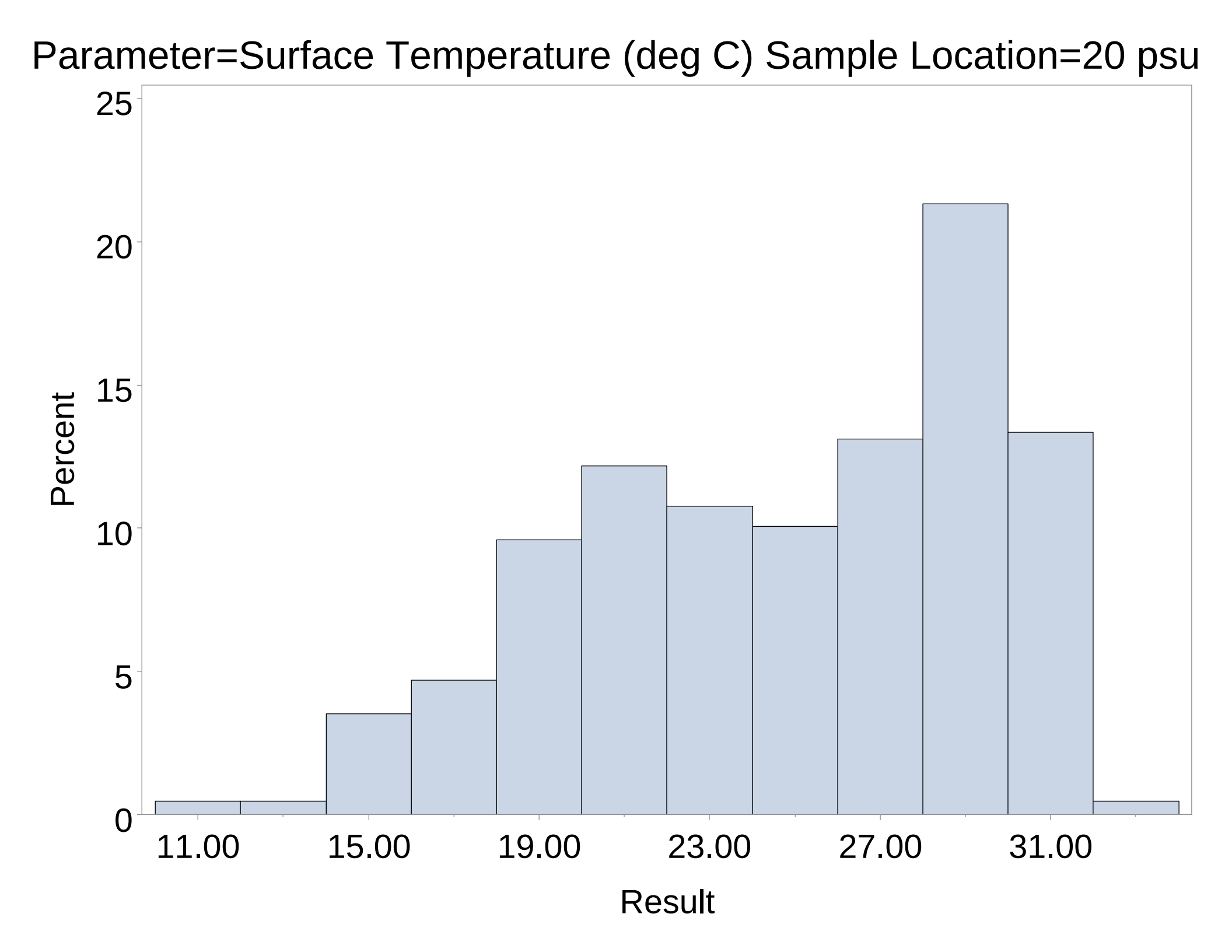
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.0274	**Pr > |t|**	<.0001
Sign	**M**	213.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45689	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.50
99%	31.80
95%	30.82
90%	30.33
75% Q3	29.00
50% Median	25.61
25% Q1	21.19
10%	18.16
5%	16.40
1%	14.94
0% Min	10.91

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.91	47551	31.80	47413
11.71	47443	31.80	47414
13.17	47562	31.81	47485
13.89	47575	32.36	47545
14.94	47384	32.50	47342


Parameter=Surface Temperature (deg C) Sample Location=20 psu
Percent
25
20
15
10
5
0
11.00
15.00
19.00
23.00
27.00
31.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=Station 18

Moments			
N	223	**Sum Weights**	223
Mean	24.8723767	**Sum Observations**	5546.54
Std Deviation	4.41542538	**Variance**	19.4959813
Skewness	-0.7104532	**Kurtosis**	0.01820903
Uncorrected SS	142283.74	**Corrected SS**	4328.10784
Coeff Variation	17.7523259	**Std Error Mean**	0.29567875

Basic Statistical Measures			
Location		**Variability**	
Mean	24.87238	**Std Deviation**	4.41543
Median	26.00000	**Variance**	19.49598
Mode	28.10000	**Range**	22.45000
		Interquartile Range	6.60000

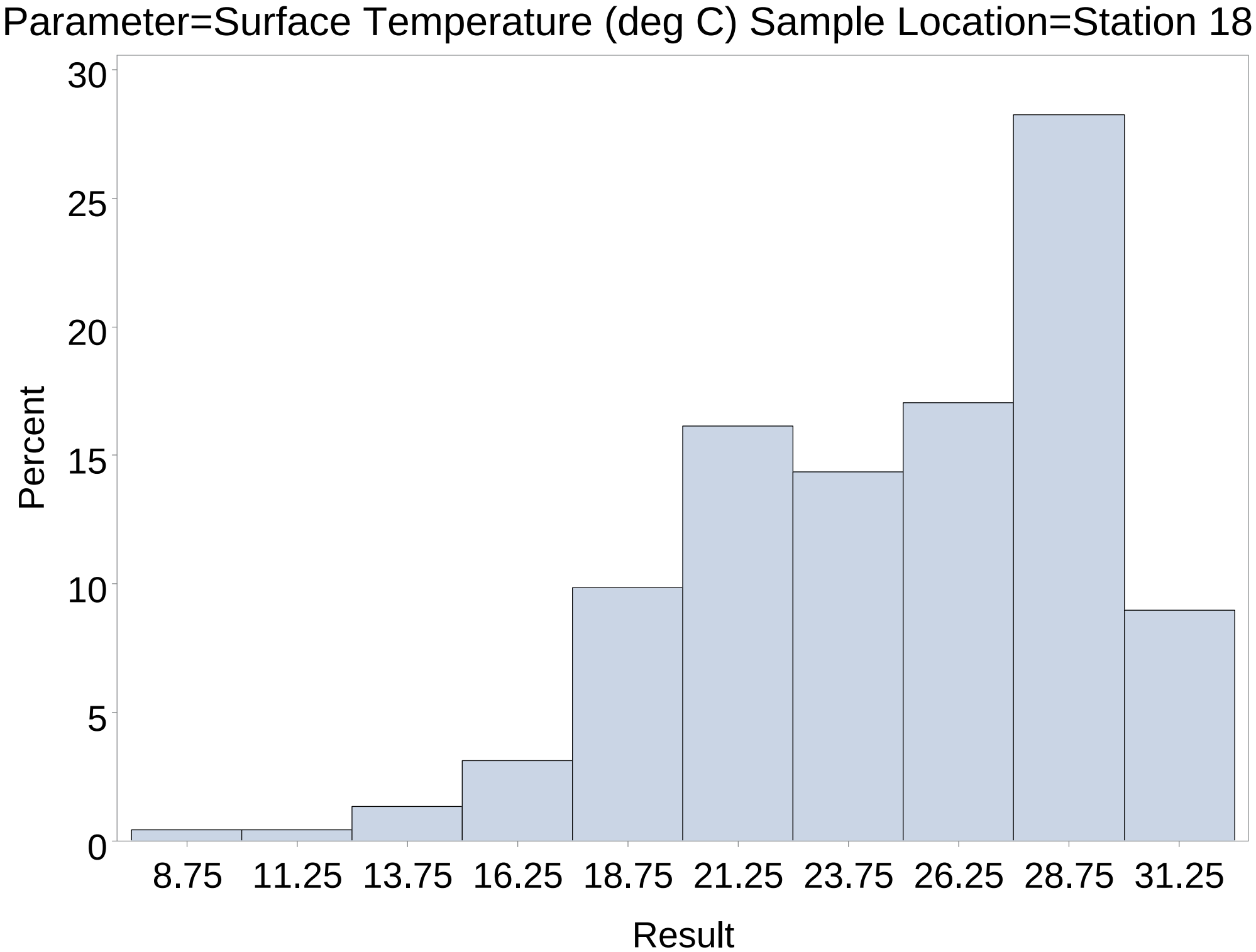
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	84.11959	**Pr > |t|**	<.0001
Sign	**M**	111.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12488	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.83
99%	31.47
95%	30.30
90%	29.84
75% Q3	28.40
50% Median	26.00
25% Q1	21.80
10%	18.53
5%	17.40
1%	12.63
0% Min	9.38

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.38	47775	31.16	47780
12.38	47786	31.20	47853
12.63	47667	31.47	47746
13.47	47691	31.67	47745
13.76	47799	31.83	47734


Parameter=Surface Temperature (deg C) Sample Location=Station 18
Percent
30
25
20
15
10
5
0
8.75
11.25
13.75
16.25
18.75
21.25
23.75
26.25
28.75
31.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	1.12512207	**Sum Observations**	479.302
Std Deviation	0.41544498	**Variance**	0.17259453
Skewness	1.41500437	**Kurtosis**	8.15179742
Uncorrected SS	612.625932	**Corrected SS**	73.3526757
Coeff Variation	36.9244362	**Std Error Mean**	0.02012838

Basic Statistical Measures			
Location		**Variability**	
Mean	1.125122	**Std Deviation**	0.41544
Median	1.085000	**Variance**	0.17259
Mode	1.310000	**Range**	4.29000
		Interquartile Range	0.50000

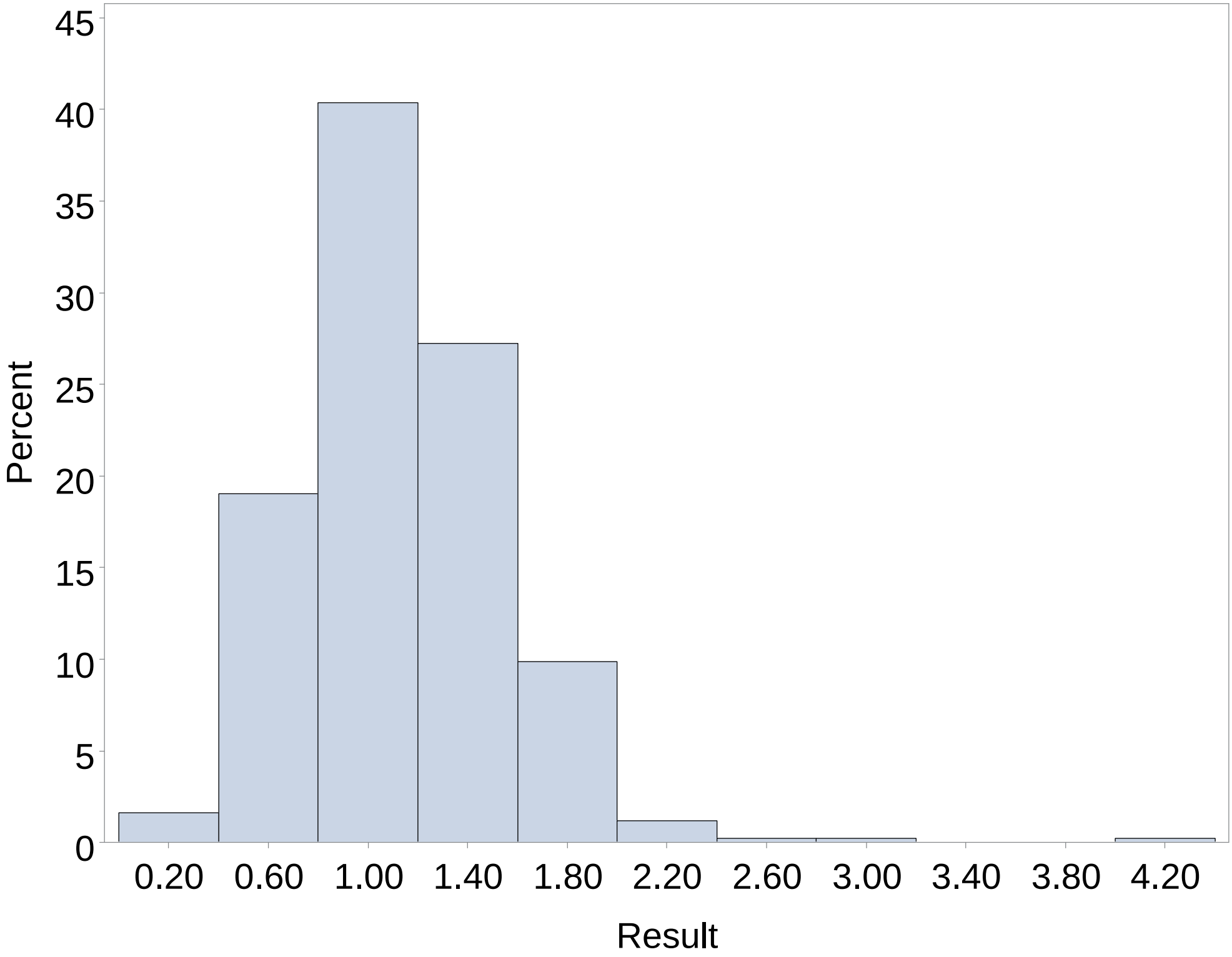
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.89731	**Pr > |t|**	<.0001
Sign	**M**	211	**Pr >= |M|**	<.0001
Signed Rank	**S**	44626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.290
99%	2.260
95%	1.780
90%	1.630
75% Q3	1.350
50% Median	1.085
25% Q1	0.850
10%	0.680
5%	0.620
1%	0.224
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.000	48037	2.26	48065
0.000	47959	2.34	47993
0.000	47952	2.42	48051
0.000	47951	2.89	48076
0.224	48148	4.29	48054


45
40
35
30
25
20
15
10
5
0
Percent
0.20
0.60
1.00
1.40
1.80
2.20
2.60
3.00
3.40
3.80
4.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=6 psu

Moments			
N	427	**Sum Weights**	427
Mean	1.20511241	**Sum Observations**	514.583
Std Deviation	0.74210189	**Variance**	0.55071522
Skewness	8.42931441	**Kurtosis**	97.4211162
Uncorrected SS	854.735045	**Corrected SS**	234.604685
Coeff Variation	61.5794748	**Std Error Mean**	0.03591283

Basic Statistical Measures			
Location		**Variability**	
Mean	1.205112	**Std Deviation**	0.74210
Median	1.110000	**Variance**	0.55072
Mode	1.030000	**Range**	10.70000
		Interquartile Range	0.44000

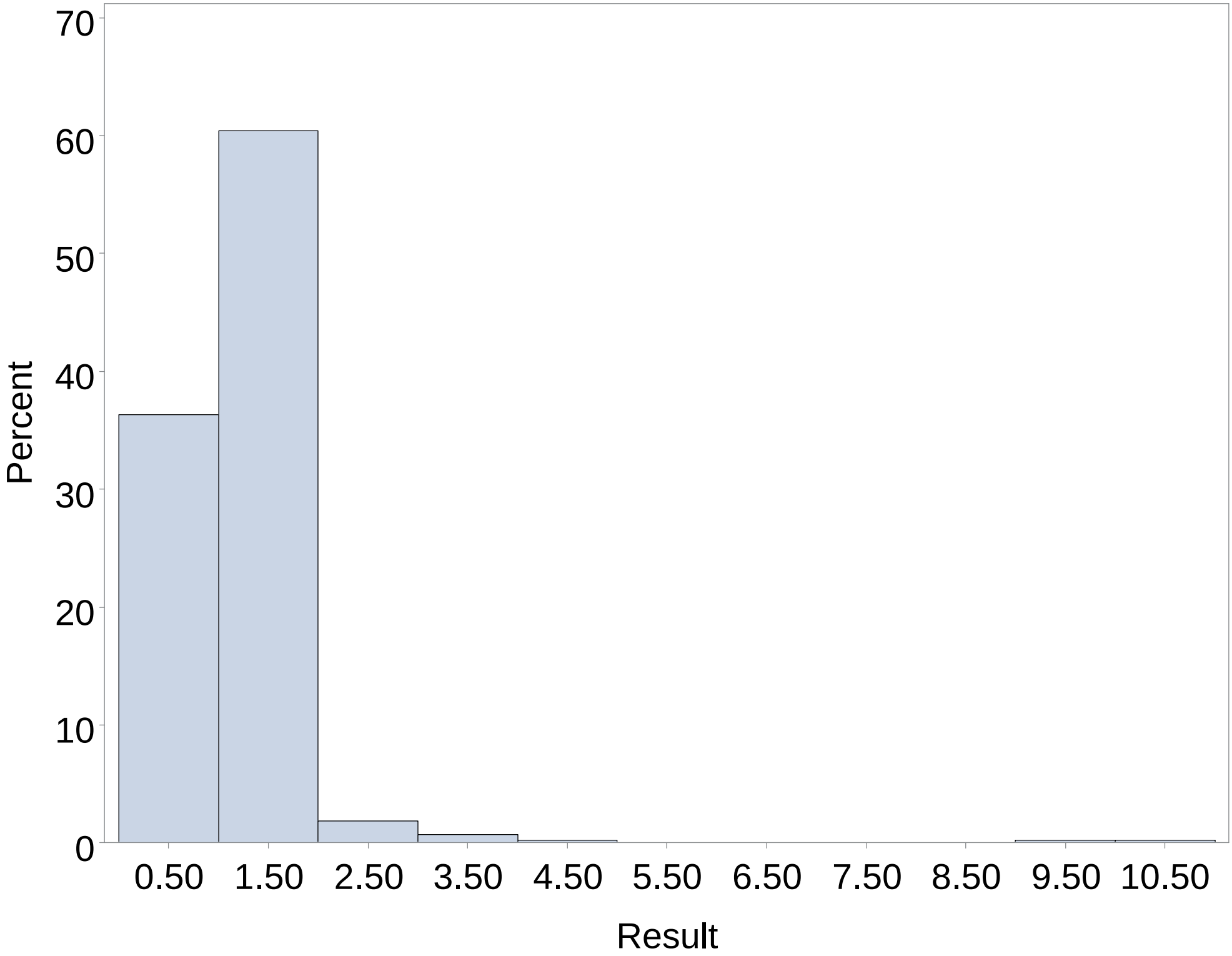
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.5566	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.700
99%	3.070
95%	1.880
90%	1.640
75% Q3	1.350
50% Median	1.110
25% Q1	0.910
10%	0.744
5%	0.670
1%	0.450
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	48490	3.07	48417
0.00	48385	3.50	48557
0.00	48378	4.10	48682
0.44	48607	9.40	48369
0.45	48554	10.70	48636


70
60
50
40
30
20
10
0
Percent
0.50
1.50
2.50
3.50
4.50
5.50
6.50
7.50
8.50
9.50
10.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	1.05981265	**Sum Observations**	452.54
Std Deviation	0.57055196	**Variance**	0.32552954
Skewness	6.32351261	**Kurtosis**	63.5433451
Uncorrected SS	618.2832	**Corrected SS**	138.675585
Coeff Variation	53.8351722	**Std Error Mean**	0.02761094

Basic Statistical Measures			
Location		**Variability**	
Mean	1.059813	**Std Deviation**	0.57055
Median	0.970000	**Variance**	0.32553
Mode	1.040000	**Range**	7.92000
		Interquartile Range	0.37000

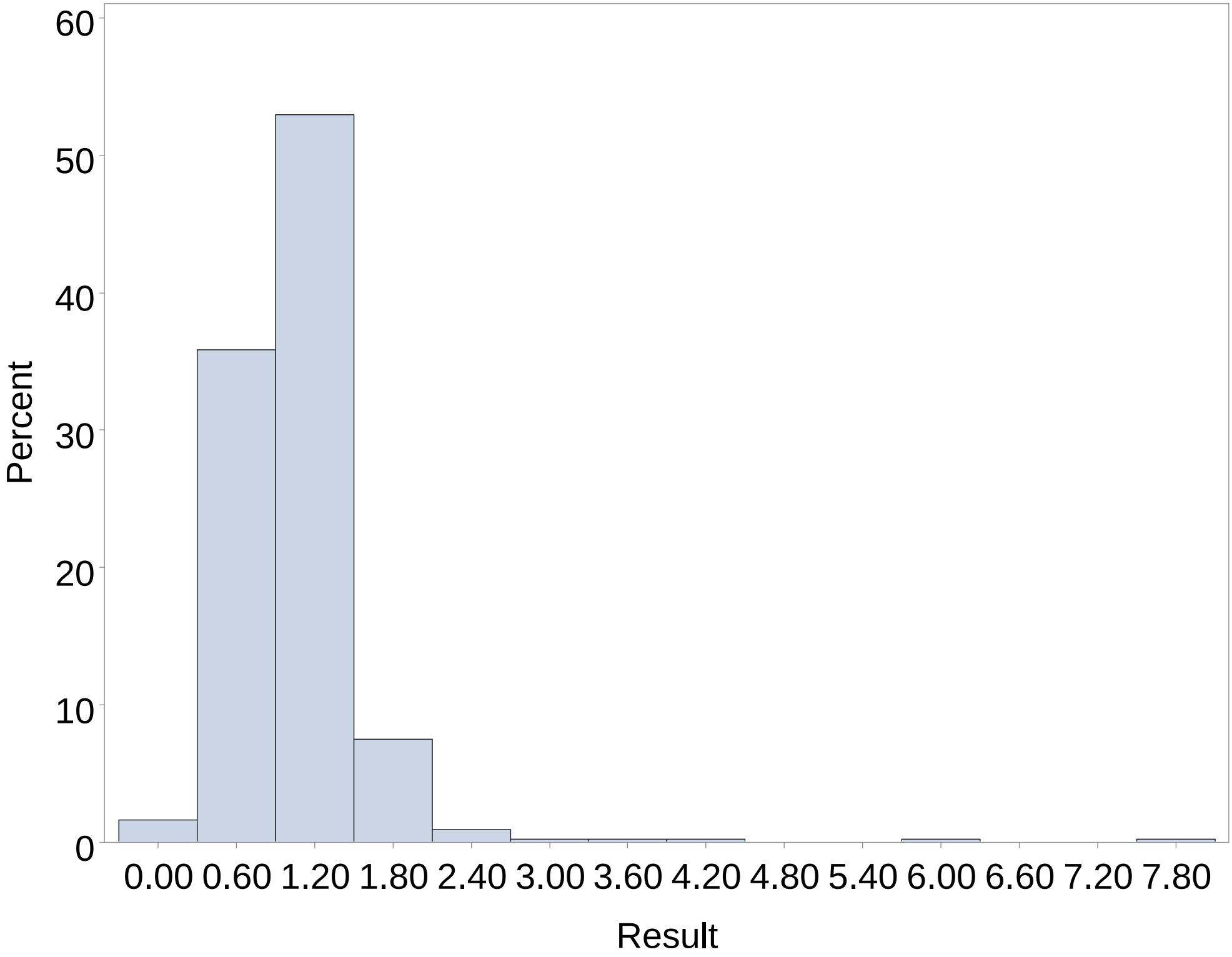
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.38379	**Pr > |t|**	<.0001
Sign	**M**	212	**Pr >= |M|**	<.0001
Signed Rank	**S**	45050	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.920
99%	2.880
95%	1.740
90%	1.450
75% Q3	1.190
50% Median	0.970
25% Q1	0.820
10%	0.690
5%	0.601
1%	0.060
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	48916	2.88	48861
0.00	48812	3.60	49109
0.00	48805	4.16	48753
0.06	48981	5.96	48871
0.06	48980	7.92	49005


60
50
40
30
20
10
0
Percent
0.00 0.60 1.20 1.80 2.40 3.00 3.60 4.20 4.80 5.40 6.00 6.60 7.20 7.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=20 psu

Moments			
N	426	**Sum Weights**	426
Mean	0.79132629	**Sum Observations**	337.105
Std Deviation	0.33938646	**Variance**	0.11518317
Skewness	3.0494558	**Kurtosis**	22.9334194
Uncorrected SS	315.712897	**Corrected SS**	48.9528476
Coeff Variation	42.8883087	**Std Error Mean**	0.01644333

Basic Statistical Measures			
Location		**Variability**	
Mean	0.791326	**Std Deviation**	0.33939
Median	0.753000	**Variance**	0.11518
Mode	0.680000	**Range**	3.82000
		Interquartile Range	0.27000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.12446	**Pr > |t|**	<.0001
Sign	**M**	209.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	43995	**Pr >= |S|**	<.0001

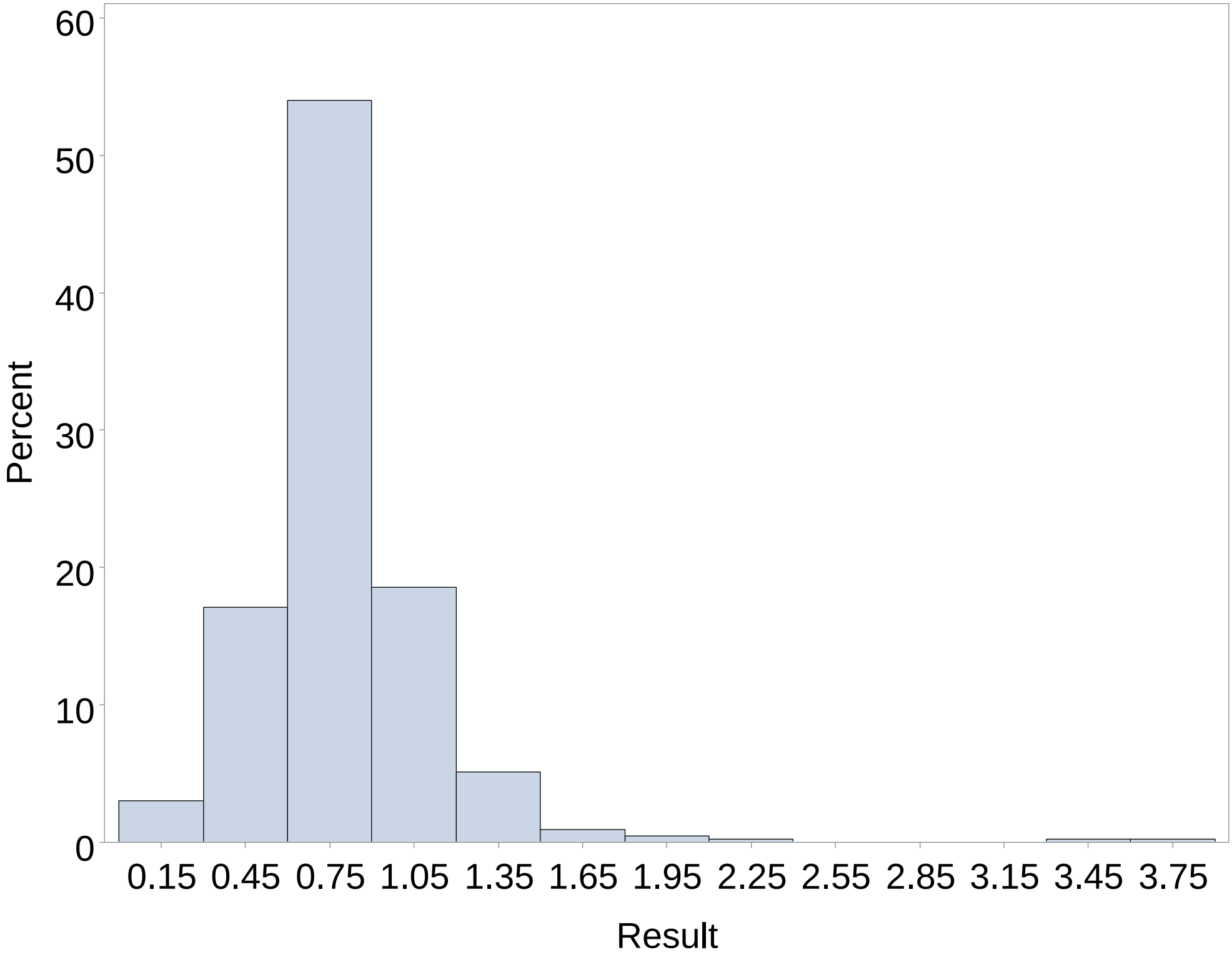
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.820
99%	1.840
95%	1.330
90%	1.090
75% Q3	0.900
50% Median	0.753
25% Q1	0.630
10%	0.471
5%	0.390
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	49350	1.84	49480
0	49345	1.97	49397
0	49344	2.20	49224
0	49343	3.37	49560
0	49239	3.82	49240

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.23	100.00


60
50
40
30
20
10
0
Percent
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
3.45
3.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	1.0842511	**Sum Observations**	246.125
Std Deviation	0.31953149	**Variance**	0.10210037
Skewness	0.43410762	**Kurtosis**	-0.2131656
Uncorrected SS	289.935987	**Corrected SS**	23.0746847
Coeff Variation	29.4702484	**Std Error Mean**	0.02120805

Basic Statistical Measures			
Location		**Variability**	
Mean	1.084251	**Std Deviation**	0.31953
Median	1.040000	**Variance**	0.10210
Mode	1.330000	**Range**	1.64300
		Interquartile Range	0.47000

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

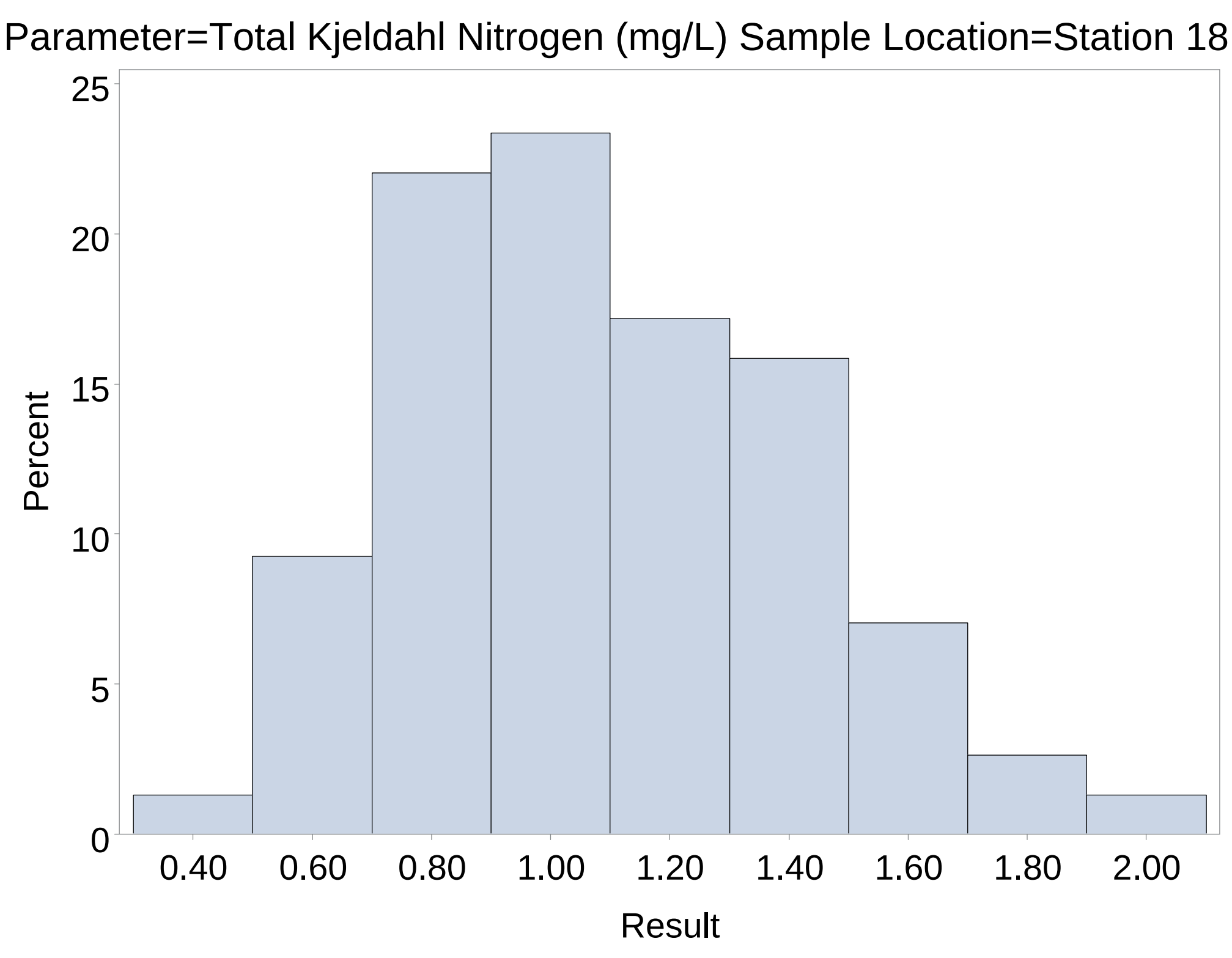
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.12451	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.030
99%	1.920
95%	1.670
90%	1.510
75% Q3	1.320
50% Median	1.040
25% Q1	0.850
10%	0.691
5%	0.620
1%	0.462
0% Min	0.387

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.387	49686	1.80	49810
0.439	49689	1.82	49753
0.462	49687	1.92	49612
0.541	49701	1.96	49610
0.550	49638	2.03	49694


Parameter=Total Kjeldahl Nitrogen (mg/L) Sample Location=Station 18
25
20
15
10
5
0
Percent
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=0 psu

Moments			
N	426	**Sum Weights**	426
Mean	1.54605164	**Sum Observations**	658.618
Std Deviation	0.56641848	**Variance**	0.3208299
Skewness	2.67644744	**Kurtosis**	23.3891765
Uncorrected SS	1154.61015	**Corrected SS**	136.352707
Coeff Variation	36.636453	**Std Error Mean**	0.02744307

Basic Statistical Measures			
Location		**Variability**	
Mean	1.546052	**Std Deviation**	0.56642
Median	1.532500	**Variance**	0.32083
Mode	1.350000	**Range**	7.16000
		Interquartile Range	0.51000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

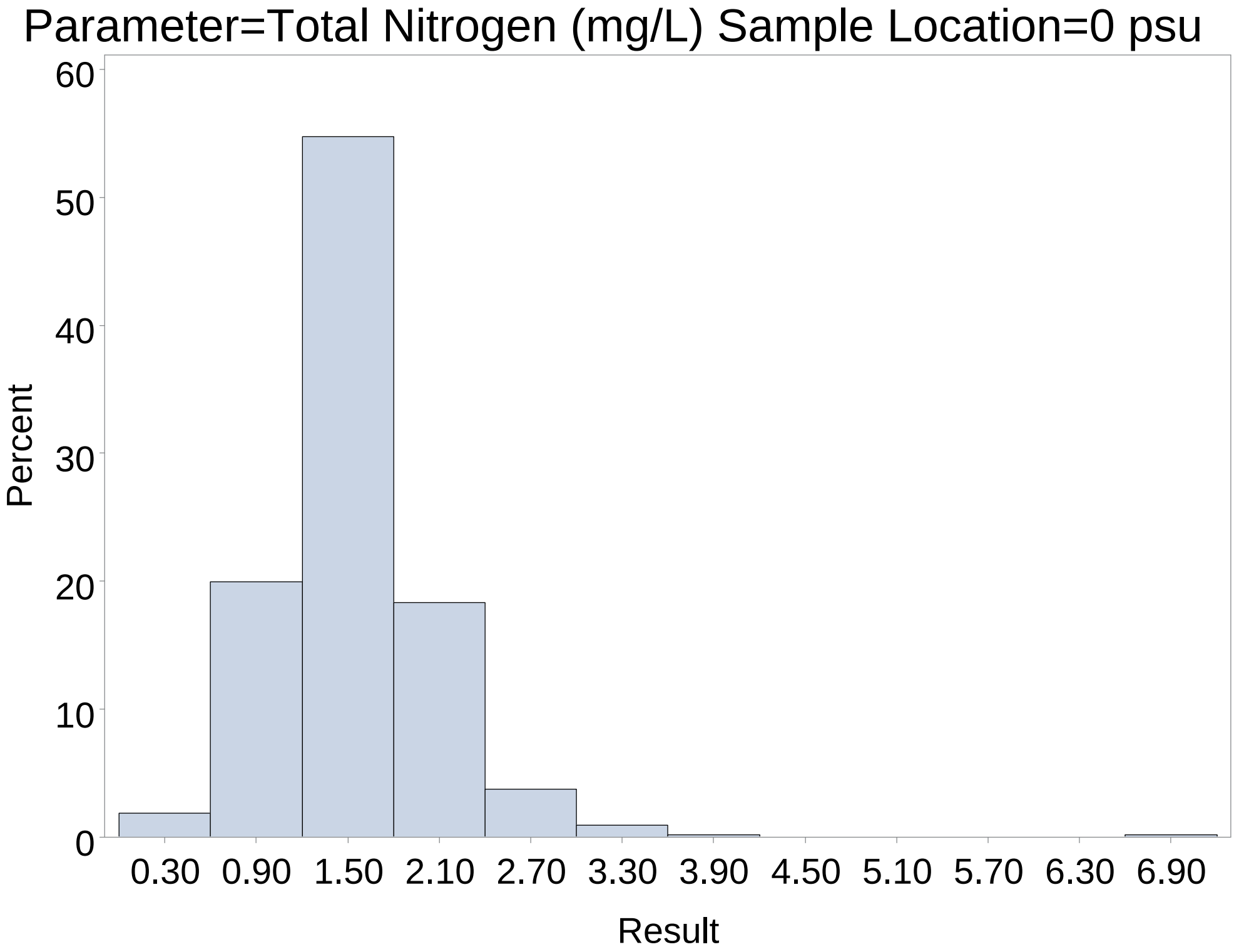
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	56.3367	**Pr > |t|**	<.0001
Sign	**M**	212.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	45262.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.1600
99%	3.2260
95%	2.4070
90%	2.0910
75% Q3	1.7600
50% Median	1.5325
25% Q1	1.2500
10%	0.9540
5%	0.7760
1%	0.4440
0% Min	0.0000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.000	49971	3.226	50136
0.001	49886	3.240	50032
0.053	49893	3.560	49985
0.327	50114	4.080	50010
0.444	50111	7.160	49988


Parameter=Total Nitrogen (mg/L) Sample Location=0 psu
Percent
60
50
40
30
20
10
0
0.30
0.90
1.50
2.10
2.70
3.30
3.90
4.50
5.10
5.70
6.30
6.90
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=6 psu

Moments			
N	427	**Sum Weights**	427
Mean	1.39215925	**Sum Observations**	594.452
Std Deviation	0.75076022	**Variance**	0.5636409
Skewness	7.8348395	**Kurtosis**	88.8092388
Uncorrected SS	1067.68288	**Corrected SS**	240.111025
Coeff Variation	53.9277541	**Std Error Mean**	0.03633183

Basic Statistical Measures			
Location		**Variability**	
Mean	1.392159	**Std Deviation**	0.75076
Median	1.314000	**Variance**	0.56364
Mode	1.052000	**Range**	10.83700
		Interquartile Range	0.46800

Note: The mode displayed is the smallest of 4 modes with a count of 3.

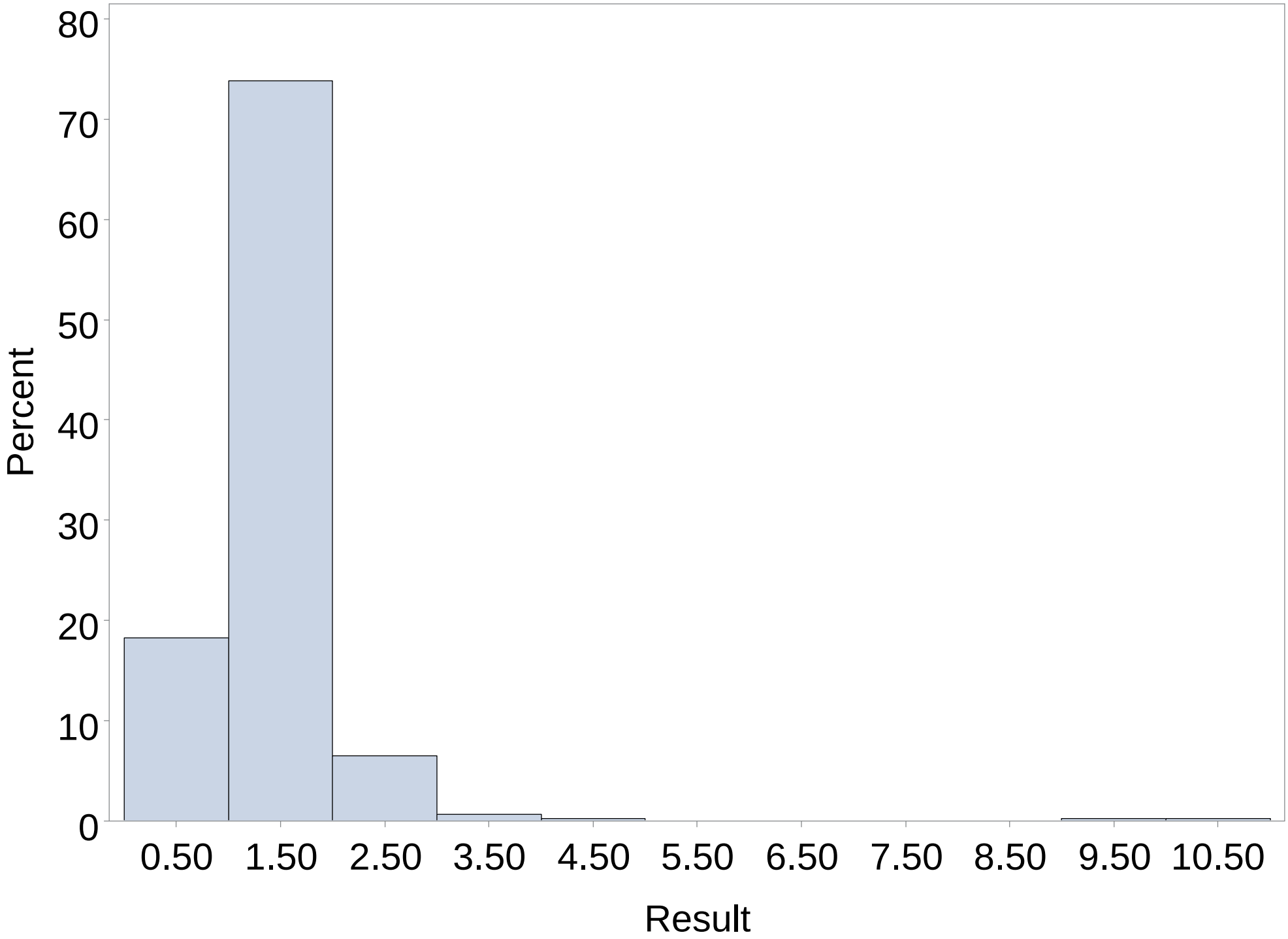
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.31789	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.837
99%	3.154
95%	2.095
90%	1.868
75% Q3	1.550
50% Median	1.314
25% Q1	1.082
10%	0.855
5%	0.767
1%	0.521
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.000	50424	3.154	50494
0.271	50319	3.535	50491
0.311	50312	4.106	50616
0.454	50541	9.421	50303
0.521	50602	10.837	50570


Parameter=Total Nitrogen (mg/L) Sample Location=6 psu
Percent
80
70
60
50
40
30
20
10
0
0.50
1.50
2.50
3.50
4.50
5.50
6.50
7.50
8.50
9.50
10.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=12 psu

Moments			
N	427	**Sum Weights**	427
Mean	1.15458899	**Sum Observations**	493.0095
Std Deviation	0.57287426	**Variance**	0.32818492
Skewness	6.02802826	**Kurtosis**	59.5153671
Uncorrected SS	709.030116	**Corrected SS**	139.806774
Coeff Variation	49.6171591	**Std Error Mean**	0.02772333

Basic Statistical Measures			
Location		**Variability**	
Mean	1.154589	**Std Deviation**	0.57287
Median	1.060000	**Variance**	0.32818
Mode	0.982000	**Range**	7.94200
		Interquartile Range	0.37500

Note: The mode displayed is the smallest of 2 modes with a count of 4.

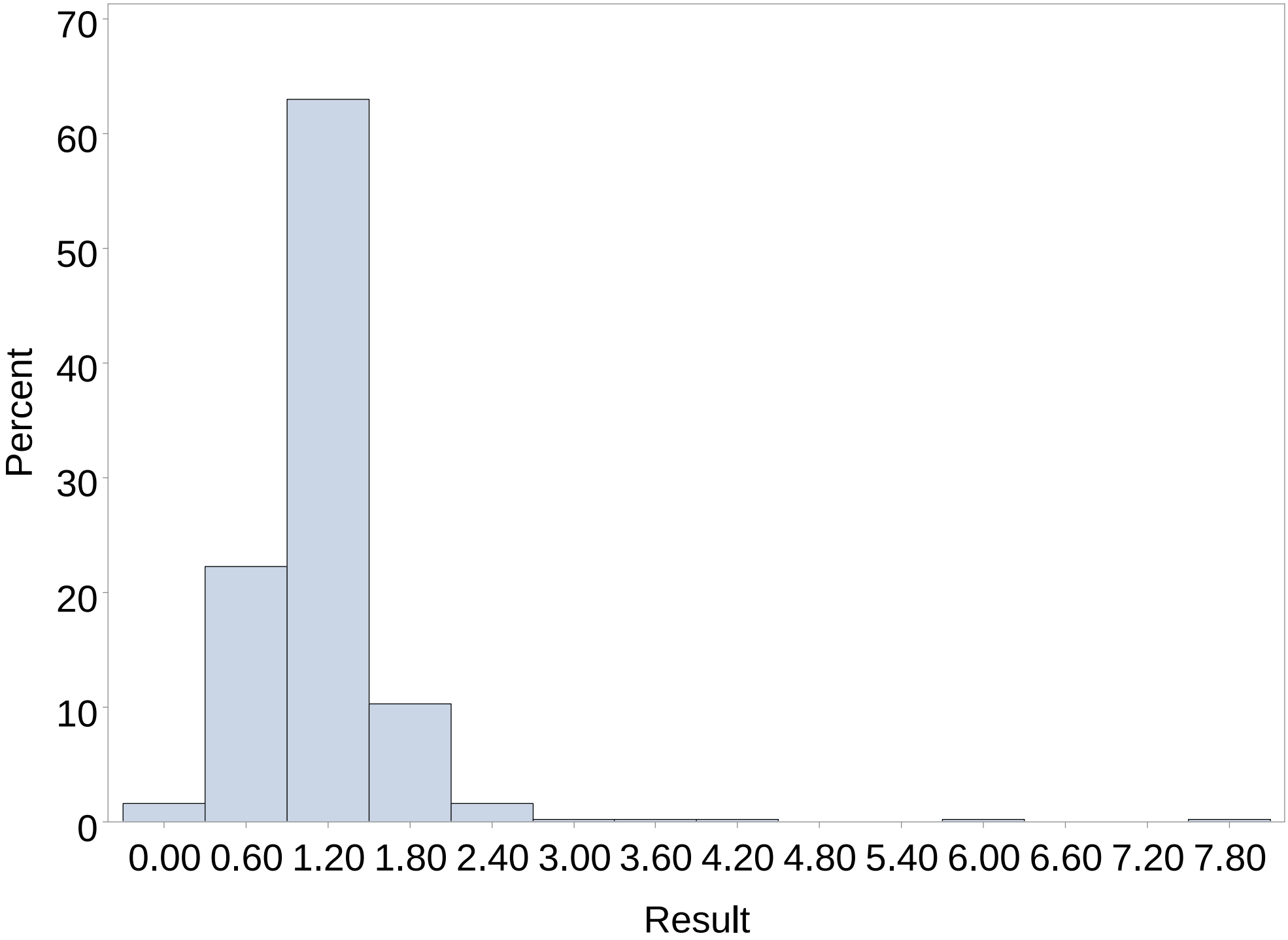
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.64684	**Pr > |t|**	<.0001
Sign	**M**	213	**Pr >= |M|**	<.0001
Signed Rank	**S**	45475.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.942
99%	2.889
95%	1.829
90%	1.545
75% Q3	1.284
50% Median	1.060
25% Q1	0.909
10%	0.771
5%	0.693
1%	0.230
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.000	50850	2.889	50795
0.082	50739	3.604	51043
0.088	50746	4.298	50687
0.178	50915	5.961	50805
0.230	50924	7.942	50939


Parameter=Total Nitrogen (mg/L) Sample Location=12 psu
Percent
70
60
50
40
30
20
10
0
0.00 0.60 1.20 1.80 2.40 3.00 3.60 4.20 4.80 5.40 6.00 6.60 7.20 7.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=20 psu

Moments			
N	427	**Sum Weights**	427
Mean	0.83093419	**Sum Observations**	354.8089
Std Deviation	0.34273838	**Variance**	0.11746959
Skewness	2.98338304	**Kurtosis**	22.1053142
Uncorrected SS	344.864894	**Corrected SS**	50.0420471
Coeff Variation	41.247355	**Std Error Mean**	0.01658627

Basic Statistical Measures			
Location		**Variability**	
Mean	0.830934	**Std Deviation**	0.34274
Median	0.801000	**Variance**	0.11747
Mode	0.683000	**Range**	3.89200
		Interquartile Range	0.30500

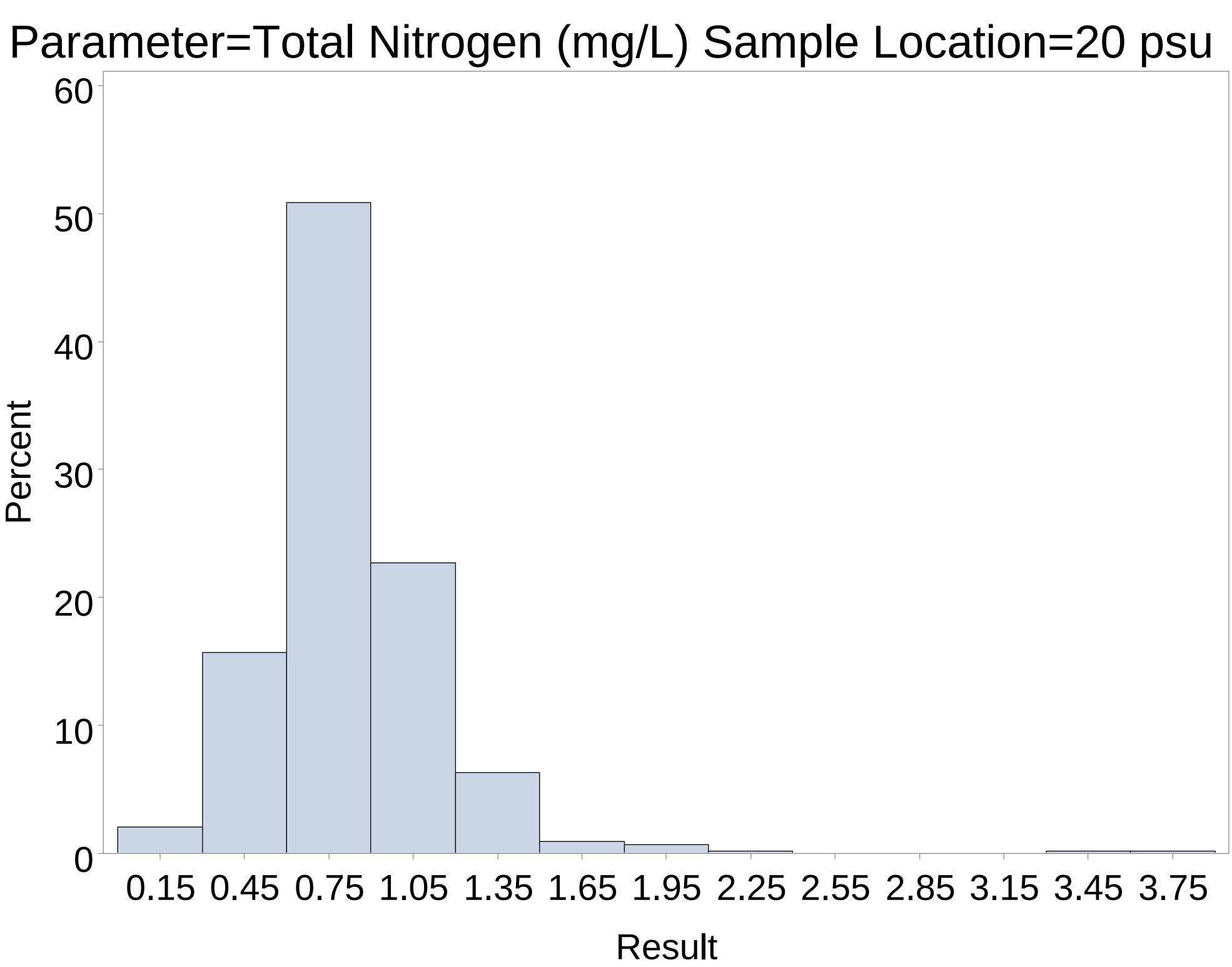
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.09771	**Pr > |t|**	<.0001
Sign	**M**	211.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	44838	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.892
99%	1.931
95%	1.354
90%	1.154
75% Q3	0.961
50% Median	0.801
25% Q1	0.656
10%	0.524
5%	0.436
1%	0.003
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.000	51284	1.931	51149
0.000	51279	1.990	51331
0.000	51278	2.208	51158
0.000	51277	3.370	51494
0.003	51173	3.892	51174


Parameter=Total Nitrogen (mg/L) Sample Location=20 psu
Percent
60
50
40
30
20
10
0
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
3.45
3.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=Station 18

Moments			
N	227	**Sum Weights**	227
Mean	1.48652907	**Sum Observations**	337.4421
Std Deviation	0.46939633	**Variance**	0.22033292
Skewness	1.00826601	**Kurtosis**	4.92542238
Uncorrected SS	551.412732	**Corrected SS**	49.7952391
Coeff Variation	31.5766667	**Std Error Mean**	0.03115493

Basic Statistical Measures			
Location		**Variability**	
Mean	1.486529	**Std Deviation**	0.46940
Median	1.502000	**Variance**	0.22033
Mode	1.502000	**Range**	3.78200
		Interquartile Range	0.54500

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

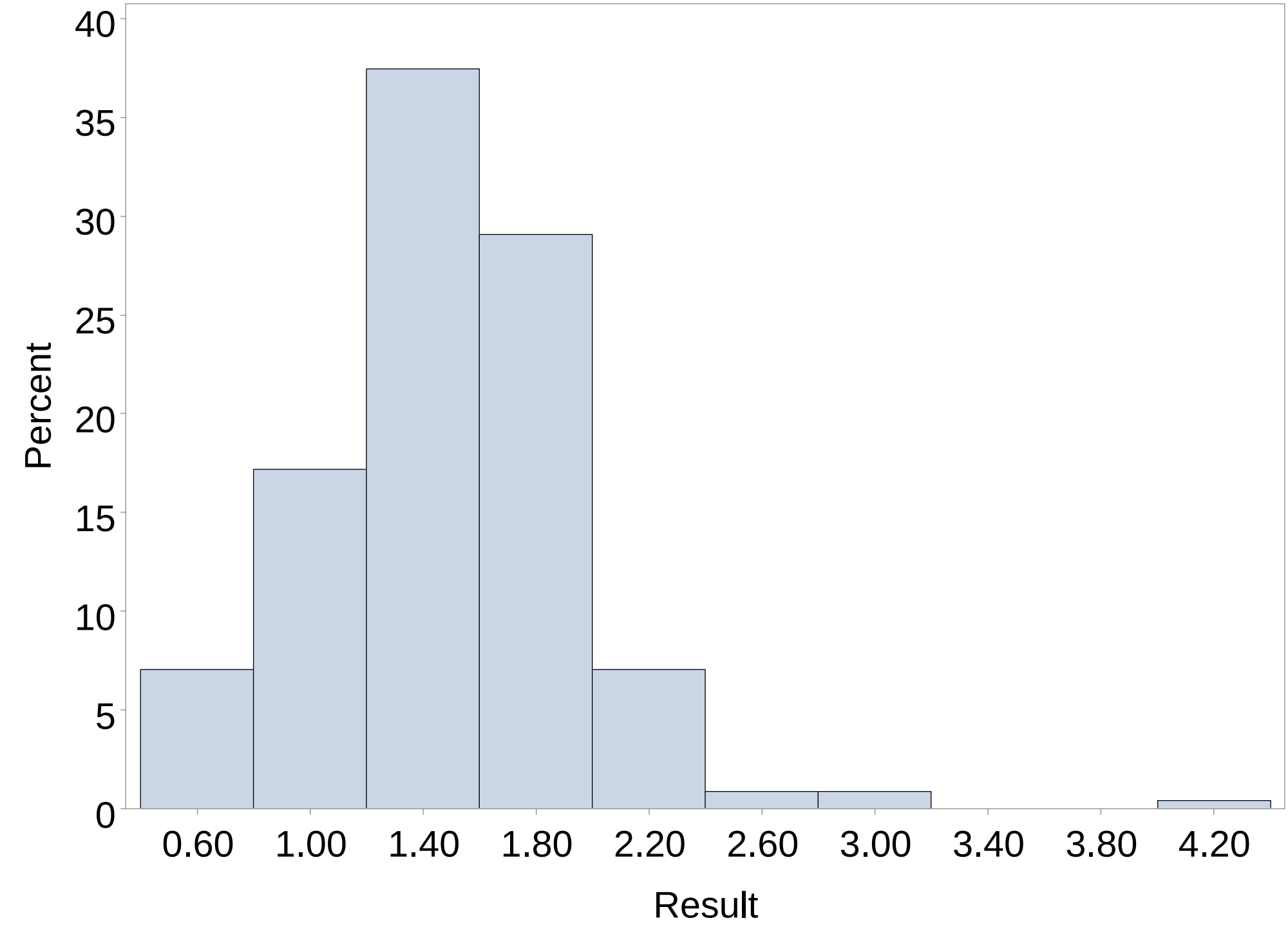
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.71409	**Pr > |t|**	<.0001
Sign	**M**	113.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.211
99%	3.000
95%	2.194
90%	1.949
75% Q3	1.749
50% Median	1.502
25% Q1	1.204
10%	0.892
5%	0.745
1%	0.551
0% Min	0.429

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.429	51620	2.434	51606
0.478	51623	2.675	51532
0.551	51635	3.000	51540
0.583	51613	3.038	51645
0.615	51684	4.211	51563


Parameter=Total Nitrogen (mg/L) Sample Location=Station 18
Percent
40
35
30
25
20
15
10
5
0
0.60
1.00
1.40
1.80
2.20
2.60
3.00
3.40
3.80
4.20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=0 psu

Moments			
N	158	**Sum Weights**	158
Mean	22.1277215	**Sum Observations**	3496.18
Std Deviation	10.8162751	**Variance**	116.991806
Skewness	2.49113301	**Kurtosis**	12.9283717
Uncorrected SS	95730.211	**Corrected SS**	18367.7136
Coeff Variation	48.8811062	**Std Error Mean**	0.86049664

Basic Statistical Measures			
Location		**Variability**	
Mean	22.12772	**Std Deviation**	10.81628
Median	20.07000	**Variance**	116.99181
Mode	17.20000	**Range**	94.60000
		Interquartile Range	11.90000

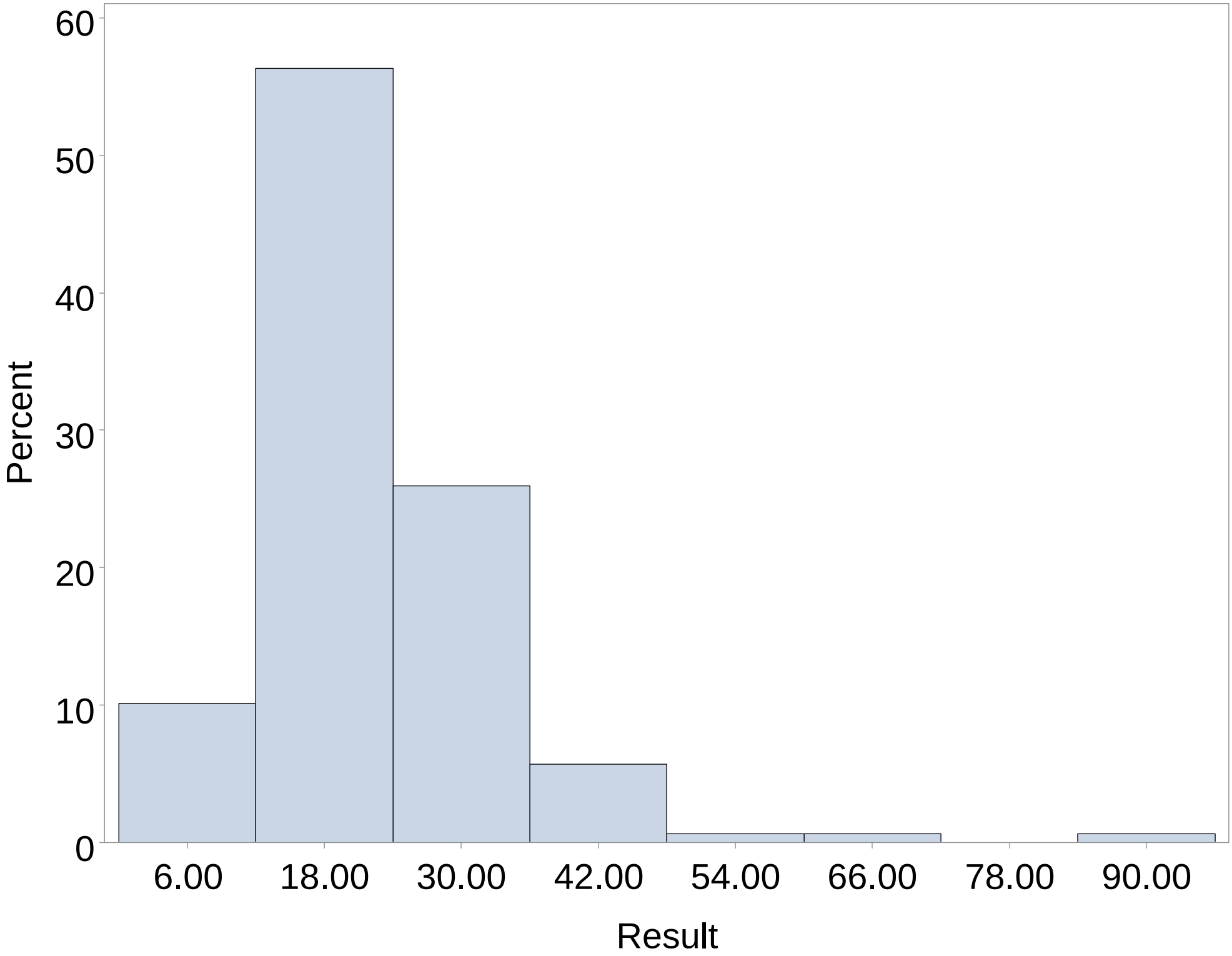
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.71506	**Pr > |t|**	<.0001
Sign	**M**	78.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6201.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	94.60
99%	63.50
95%	40.26
90%	33.40
75% Q3	27.10
50% Median	20.07
25% Q1	15.20
10%	11.90
5%	10.40
1%	5.62
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	51754	42.8	51845
5.62	51778	45.0	51772
7.72	51884	48.8	51848
8.46	51885	63.5	51774
8.77	51886	94.6	51771


60
50
40
30
20
10
0
Percent
6.00
18.00
30.00
42.00
54.00
66.00
78.00
90.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=6 psu

Moments			
N	158	**Sum Weights**	158
Mean	18.9501899	**Sum Observations**	2994.13
Std Deviation	7.20974919	**Variance**	51.9804834
Skewness	1.22559861	**Kurtosis**	4.41154401
Uncorrected SS	64900.2679	**Corrected SS**	8160.93589
Coeff Variation	38.0457887	**Std Error Mean**	0.57357685

Basic Statistical Measures			
Location		**Variability**	
Mean	18.95019	**Std Deviation**	7.20975
Median	17.68000	**Variance**	51.98048
Mode	12.90000	**Range**	55.90000
		Interquartile Range	7.10000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

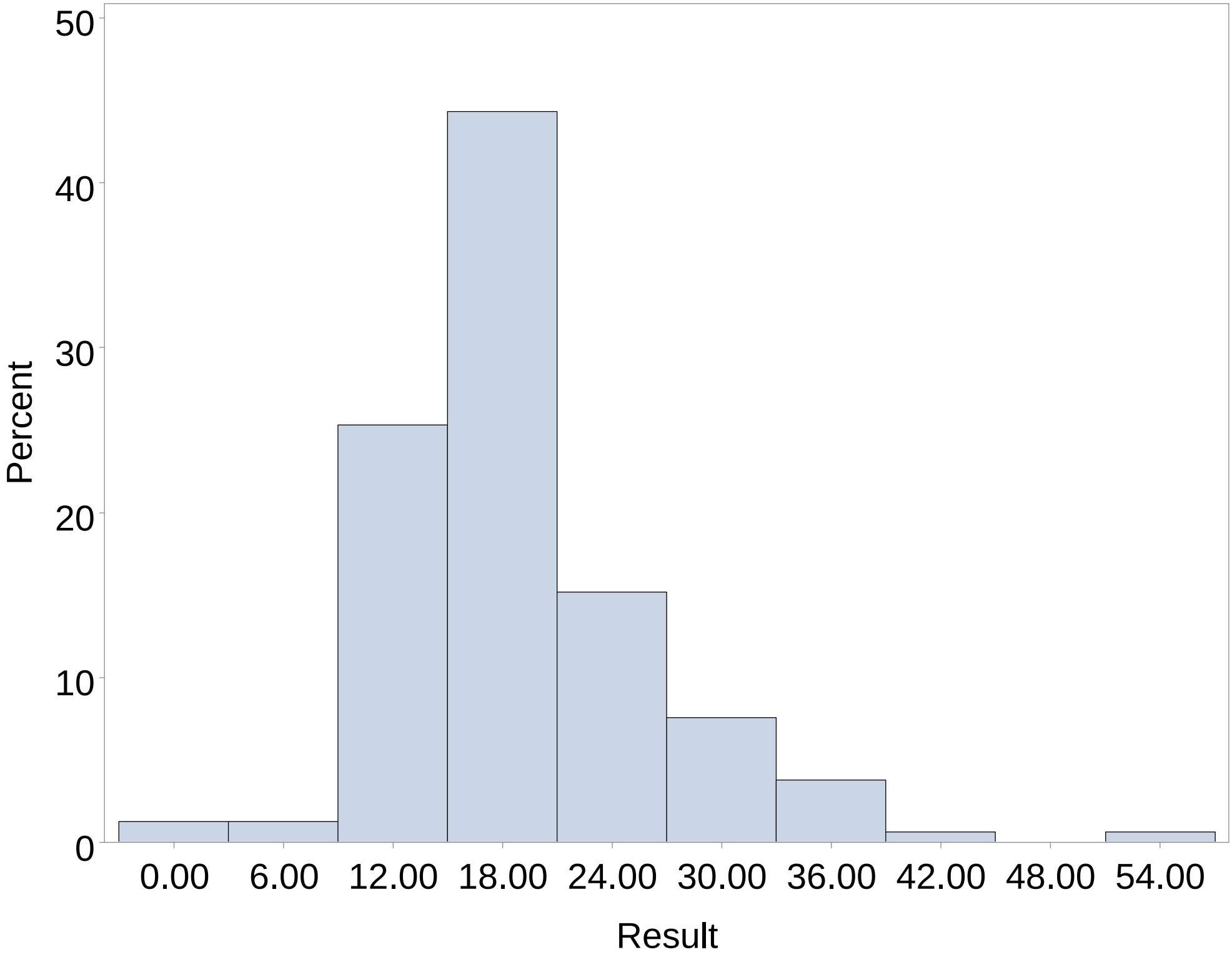
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.03862	**Pr > |t|**	<.0001
Sign	**M**	78	**Pr >= |M|**	<.0001
Signed Rank	**S**	6123	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	55.90
99%	41.37
95%	33.08
90%	28.00
75% Q3	21.70
50% Median	17.68
25% Q1	14.60
10%	12.00
5%	11.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	51930	33.90	51928
0.00	51912	34.20	52006
4.85	51936	37.00	51923
5.13	51916	41.37	51917
9.34	52042	55.90	51929


50
40
30
20
10
0
Percent
0.00
6.00
12.00
18.00
24.00
30.00
36.00
42.00
48.00
54.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=12 psu

Moments			
N	158	**Sum Weights**	158
Mean	17.1337975	**Sum Observations**	2707.14
Std Deviation	9.33338441	**Variance**	87.1120645
Skewness	6.02795334	**Kurtosis**	54.0928022
Uncorrected SS	60060.1826	**Corrected SS**	13676.5941
Coeff Variation	54.4735306	**Std Error Mean**	0.7425242

Basic Statistical Measures			
Location		**Variability**	
Mean	17.13380	**Std Deviation**	9.33338
Median	15.13500	**Variance**	87.11206
Mode	16.00000	**Range**	106.60000
		Interquartile Range	6.00000

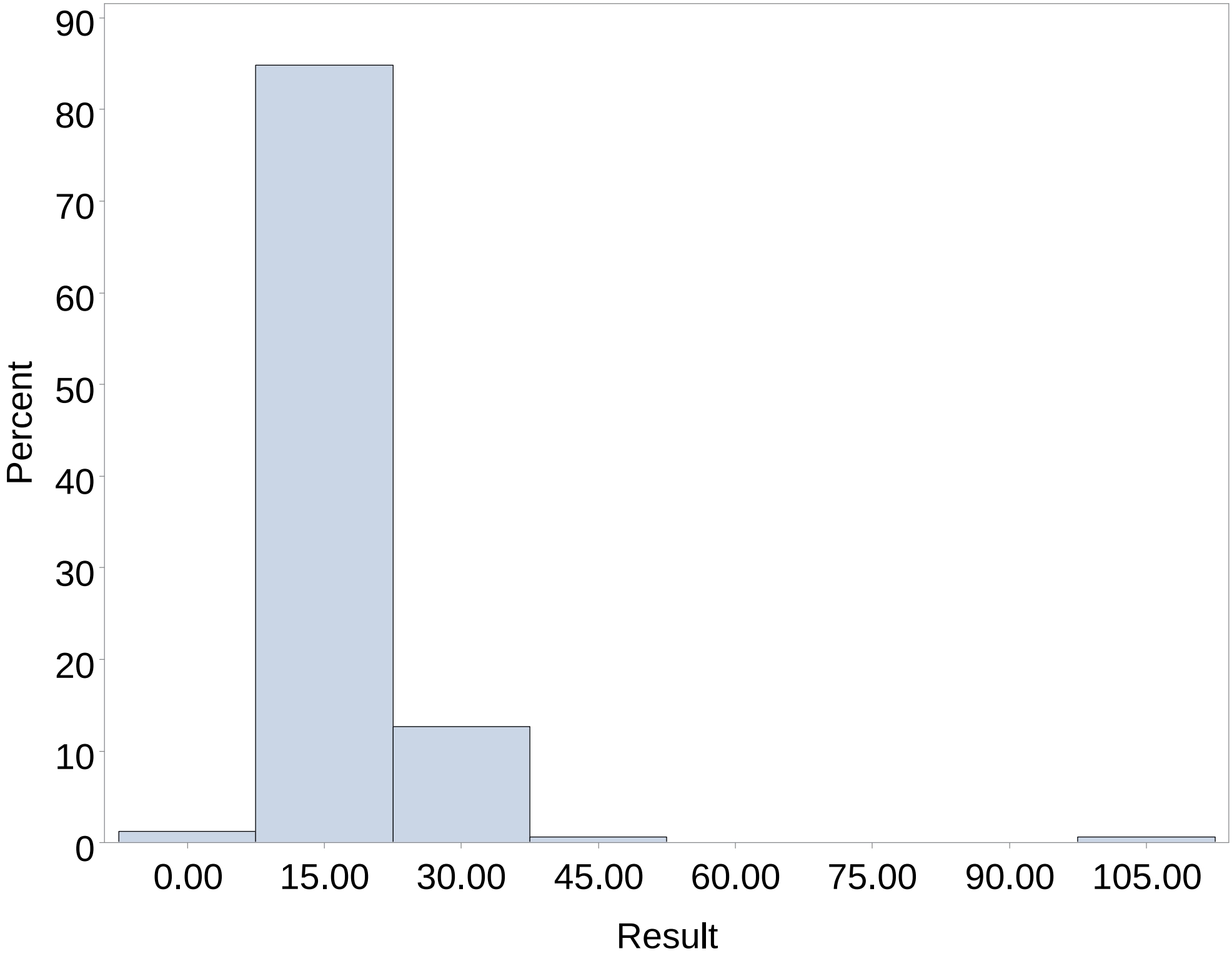
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.07507	**Pr > |t|**	<.0001
Sign	**M**	78.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6201.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	106.600
99%	48.200
95%	28.950
90%	25.200
75% Q3	19.000
50% Median	15.135
25% Q1	13.000
10%	11.000
5%	10.100
1%	7.060
0% Min	0.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	52070	30.4	52163
7.06	52094	33.0	52081
9.00	52194	35.3	52090
9.05	52200	48.2	52150
9.56	52201	106.6	52087


90
80
70
60
50
40
30
20
10
0
Percent
0.00
15.00
30.00
45.00
60.00
75.00
90.00
105.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=20 psu

Moments			
N	158	**Sum Weights**	158
Mean	13.4605063	**Sum Observations**	2126.76
Std Deviation	8.35178937	**Variance**	69.7523857
Skewness	5.3338561	**Kurtosis**	43.286123
Uncorrected SS	39578.391	**Corrected SS**	10951.1246
Coeff Variation	62.0466212	**Std Error Mean**	0.66443269

Basic Statistical Measures			
Location		**Variability**	
Mean	13.46051	**Std Deviation**	8.35179
Median	11.70000	**Variance**	69.75239
Mode	10.20000	**Range**	88.94000
		Interquartile Range	4.15000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

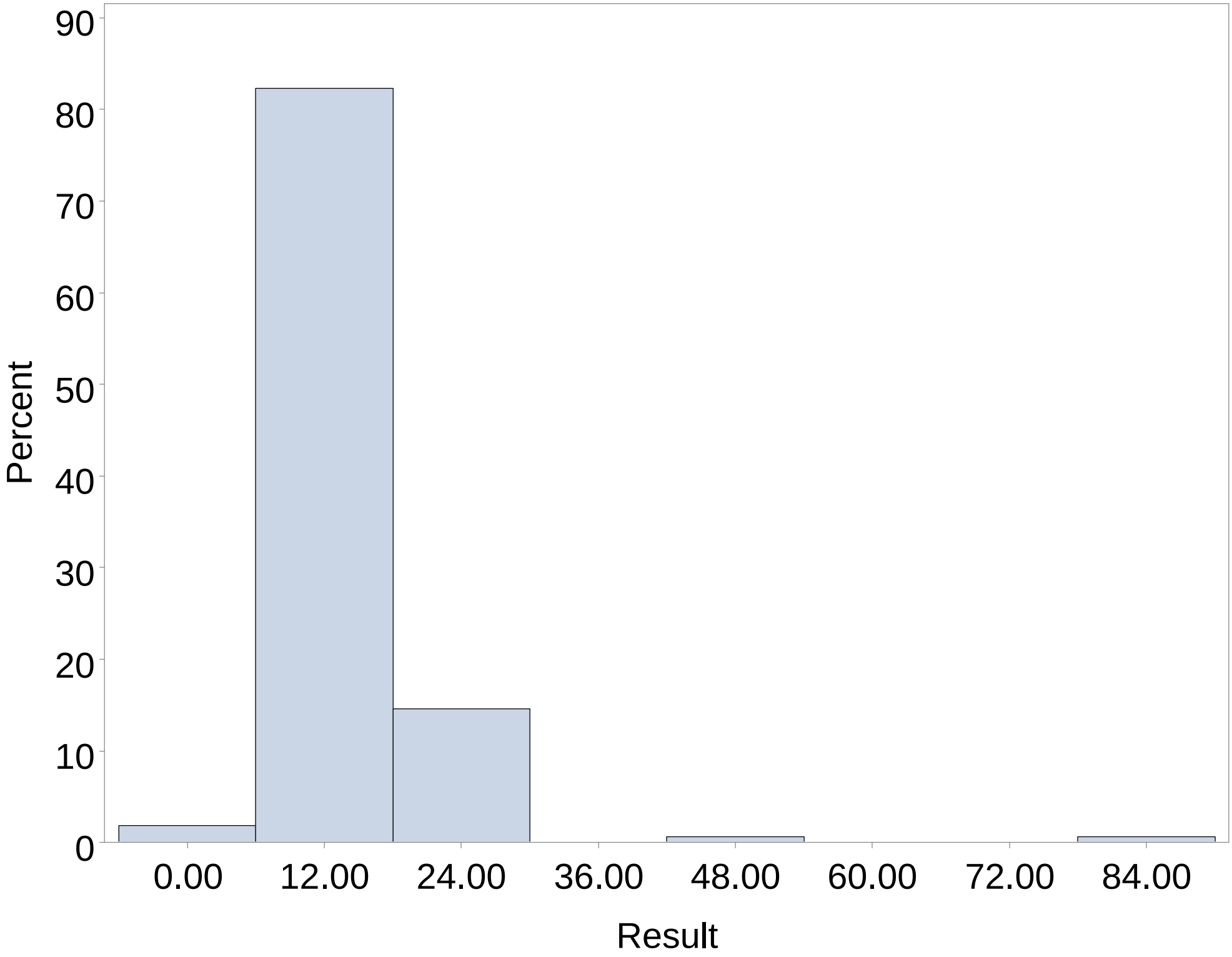
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.25865	**Pr > |t|**	<.0001
Sign	**M**	78.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6201.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	88.94
99%	46.30
95%	25.60
90%	22.20
75% Q3	13.90
50% Median	11.70
25% Q1	9.75
10%	7.97
5%	7.08
1%	0.10
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	52228	28.03	52235
0.10	52252	28.69	52233
5.00	52352	29.40	52243
6.44	52256	46.30	52245
6.70	52298	88.94	52247


90
80
70
60
50
40
30
20
10
0
Percent
0.00
12.00
24.00
36.00
48.00
60.00
72.00
84.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=Station 18

Moments			
N	38	**Sum Weights**	38
Mean	17.1368421	**Sum Observations**	651.2
Std Deviation	7.38298486	**Variance**	54.5084654
Skewness	0.79950245	**Kurtosis**	0.94516237
Uncorrected SS	13176.3248	**Corrected SS**	2016.81322
Coeff Variation	43.0825284	**Std Error Mean**	1.1976783

Basic Statistical Measures			
Location		**Variability**	
Mean	17.13684	**Std Deviation**	7.38298
Median	15.65000	**Variance**	54.50847
Mode	14.30000	**Range**	36.00000
		Interquartile Range	8.70000

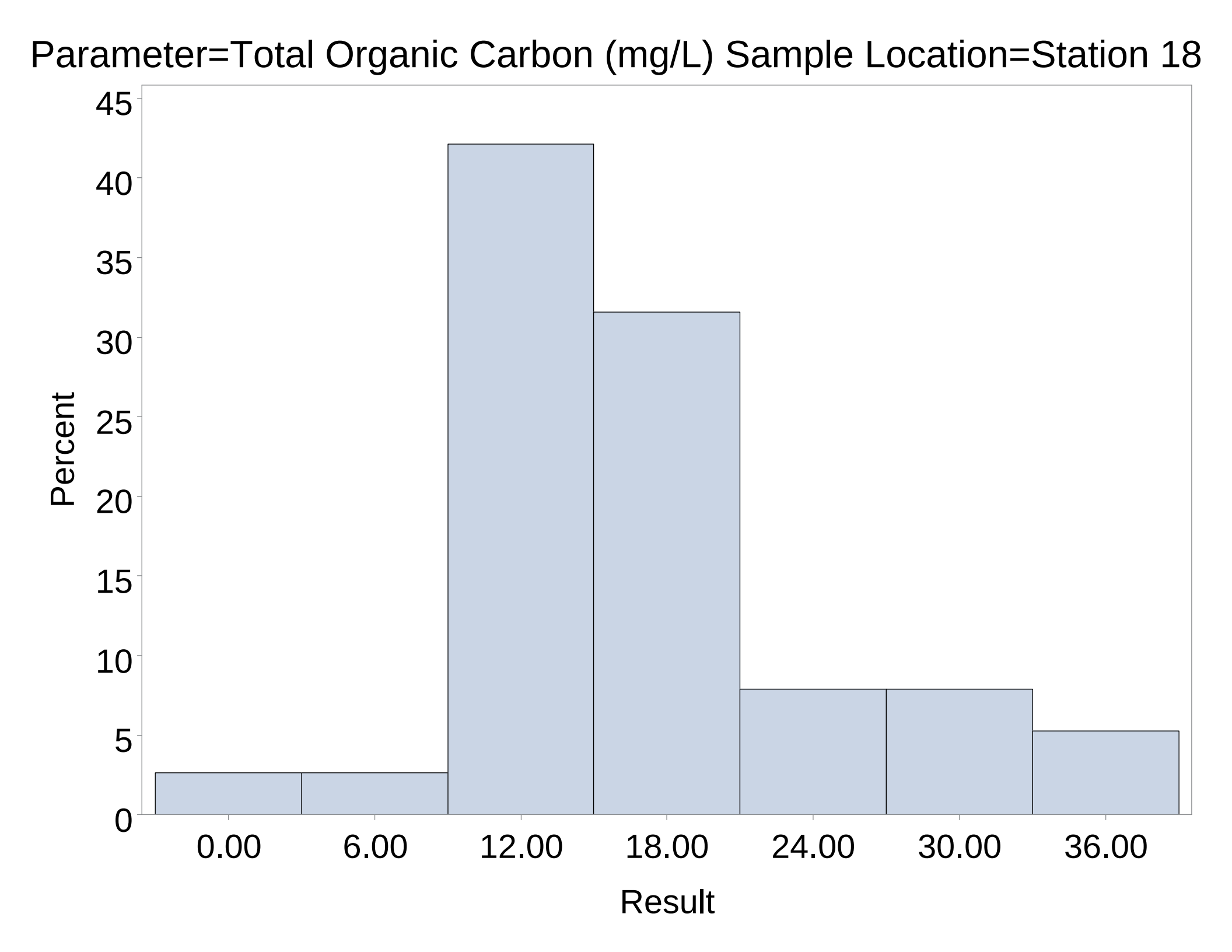
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.30838	**Pr > |t|**	<.0001
Sign	**M**	19	**Pr >= |M|**	<.0001
Signed Rank	**S**	370.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37.00
99%	37.00
95%	34.00
90%	29.60
75% Q3	20.70
50% Median	15.65
25% Q1	12.00
10%	10.30
5%	7.68
1%	1.00
0% Min	1.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	52403	27.3	52406
7.68	52396	29.6	52414
9.82	52397	29.8	52393
10.30	52408	34.0	52404
10.80	52387	37.0	52405


Parameter=Total Organic Carbon (mg/L) Sample Location=Station 18
Percent
45
40
35
30
25
20
15
10
5
0
0.00
6.00
12.00
18.00
24.00
30.00
36.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=0 psu

Moments			
N	237	**Sum Weights**	237
Mean	0.79929114	**Sum Observations**	189.432
Std Deviation	0.18762807	**Variance**	0.03520429
Skewness	0.4103476	**Kurtosis**	0.82282421
Uncorrected SS	159.719532	**Corrected SS**	8.30821291
Coeff Variation	23.4743086	**Std Error Mean**	0.01218775

Basic Statistical Measures			
Location		**Variability**	
Mean	0.799291	**Std Deviation**	0.18763
Median	0.776000	**Variance**	0.03520
Mode	1.040000	**Range**	1.30100
		Interquartile Range	0.23100

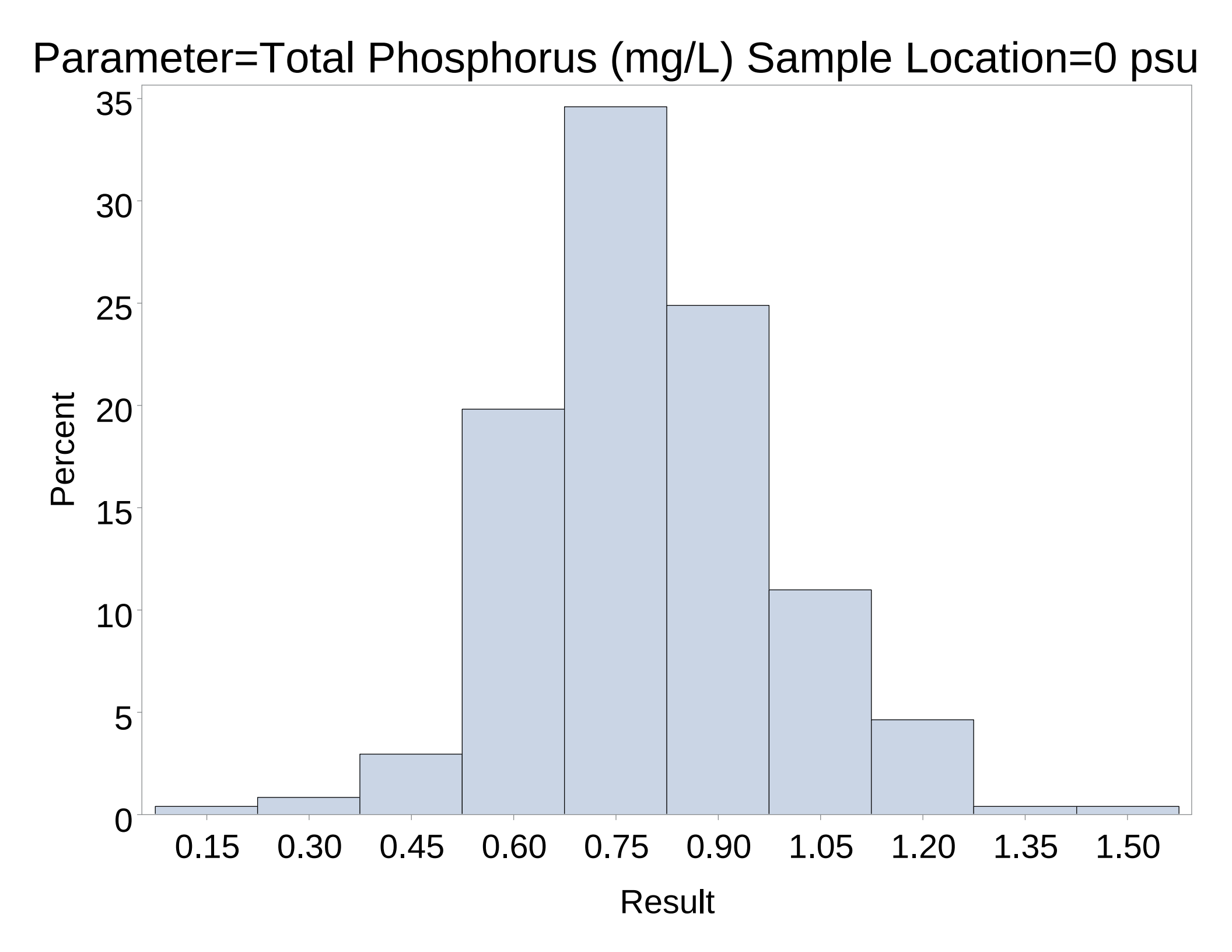
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.5815	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.510
99%	1.250
95%	1.150
90%	1.040
75% Q3	0.910
50% Median	0.776
25% Q1	0.679
10%	0.585
5%	0.547
1%	0.336
0% Min	0.209

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.209	52490	1.23	52457
0.329	52598	1.24	52439
0.336	52506	1.25	52433
0.401	52634	1.31	52438
0.471	52564	1.51	52430


Parameter=Total Phosphorus (mg/L) Sample Location=0 psu
Percent
35
30
25
20
15
10
5
0
0.15
0.30
0.45
0.60
0.75
0.90
1.05
1.20
1.35
1.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=6 psu

Moments			
N	237	**Sum Weights**	237
Mean	0.58362447	**Sum Observations**	138.319
Std Deviation	0.14112811	**Variance**	0.01991714
Skewness	0.72168059	**Kurtosis**	0.47604805
Uncorrected SS	85.426799	**Corrected SS**	4.70044558
Coeff Variation	24.1813208	**Std Error Mean**	0.00916726

Basic Statistical Measures			
Location		**Variability**	
Mean	0.583624	**Std Deviation**	0.14113
Median	0.563000	**Variance**	0.01992
Mode	0.450000	**Range**	0.76000
		Interquartile Range	0.19100

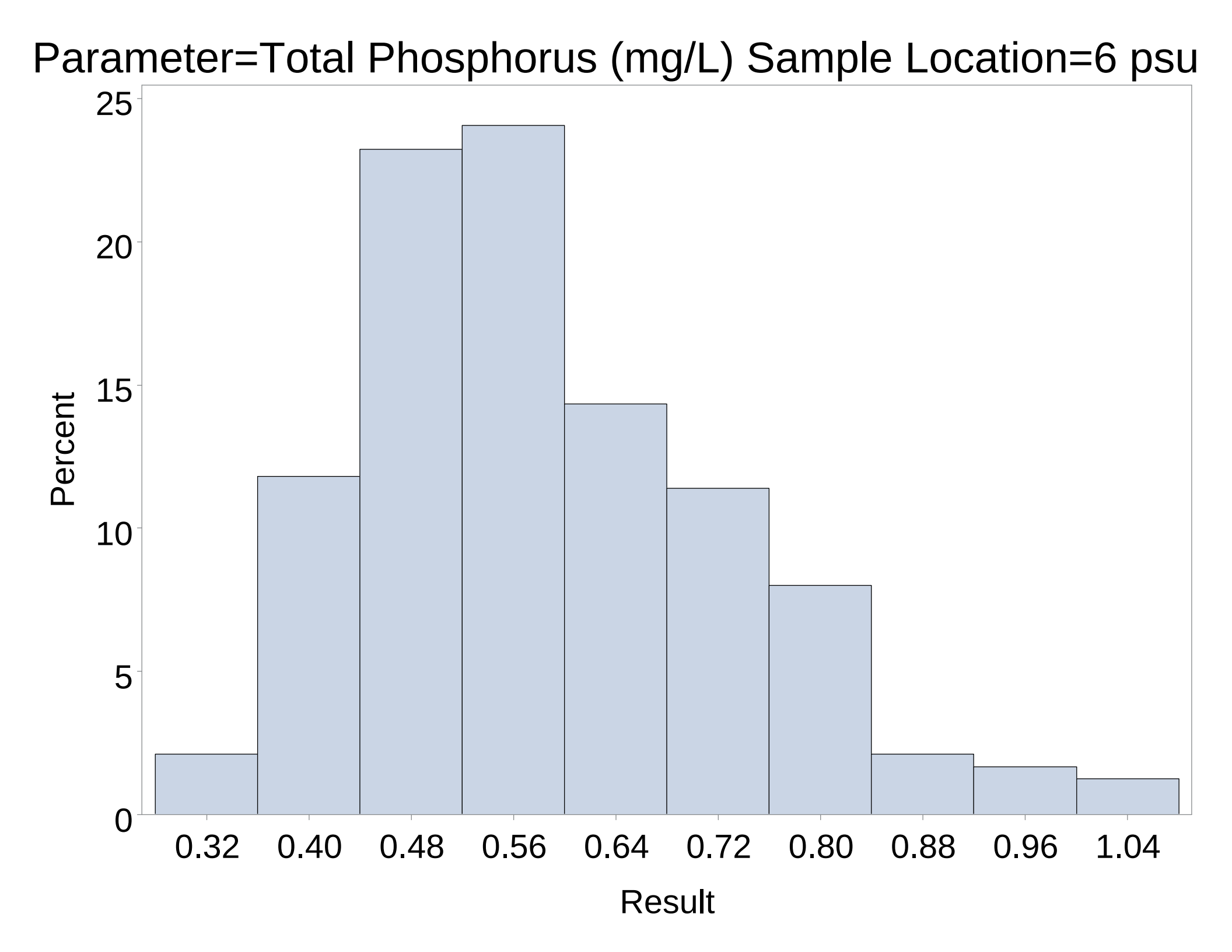
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	63.66403	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.040
99%	1.000
95%	0.842
90%	0.775
75% Q3	0.670
50% Median	0.563
25% Q1	0.479
10%	0.432
5%	0.396
1%	0.350
0% Min	0.280

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.280	52893	0.974	52659
0.282	52805	0.978	52863
0.350	52798	1.000	52680
0.351	52831	1.000	52682
0.355	52807	1.040	52683


Parameter=Total Phosphorus (mg/L) Sample Location=6 psu
25
20
15
10
5
0
Percent
0.32
0.40
0.48
0.56
0.64
0.72
0.80
0.88
0.96
1.04
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=12 psu

Moments			
N	237	**Sum Weights**	237
Mean	0.4270211	**Sum Observations**	101.204
Std Deviation	0.11974756	**Variance**	0.01433948
Skewness	0.91024144	**Kurtosis**	2.26093699
Uncorrected SS	46.60036	**Corrected SS**	3.38411689
Coeff Variation	28.0425398	**Std Error Mean**	0.00777844

Basic Statistical Measures			
Location		**Variability**	
Mean	0.427021	**Std Deviation**	0.11975
Median	0.416000	**Variance**	0.01434
Mode	0.369000	**Range**	0.87200
		Interquartile Range	0.13000

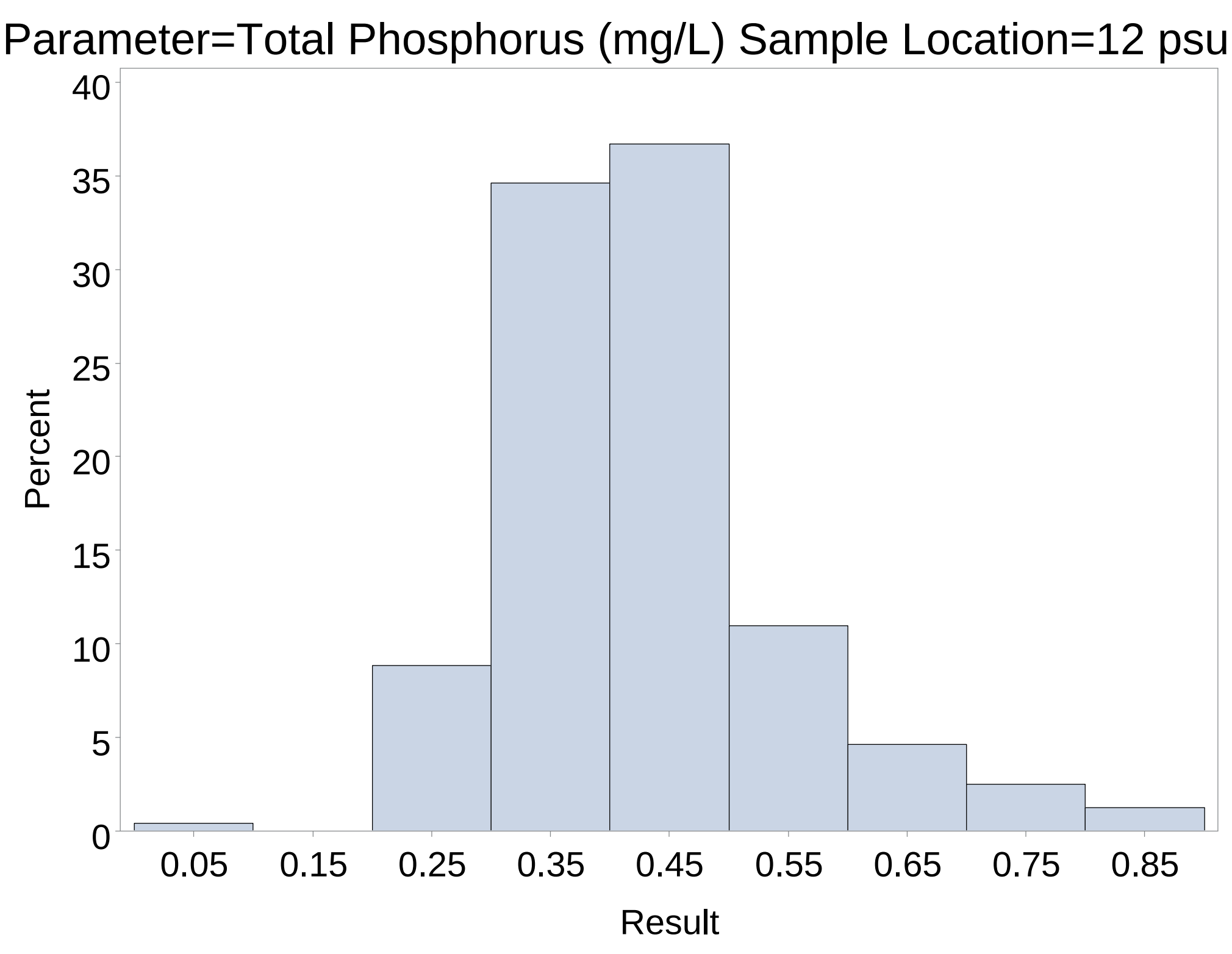
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	54.89804	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.888
99%	0.820
95%	0.655
90%	0.573
75% Q3	0.482
50% Median	0.416
25% Q1	0.352
10%	0.301
5%	0.266
1%	0.216
0% Min	0.016

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.016	53044	0.767	52912
0.213	53035	0.770	52919
0.216	53072	0.820	53101
0.219	53041	0.876	53100
0.220	53074	0.888	52920


Parameter=Total Phosphorus (mg/L) Sample Location=12 psu
Percent
40
35
30
25
20
15
10
5
0
0.05
0.15
0.25
0.35
0.45
0.55
0.65
0.75
0.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=20 psu

Moments			
N	237	**Sum Weights**	237
Mean	0.24862025	**Sum Observations**	58.923
Std Deviation	0.0910229	**Variance**	0.00828517
Skewness	1.33909802	**Kurtosis**	4.15985294
Uncorrected SS	16.604751	**Corrected SS**	1.95529982
Coeff Variation	36.6112178	**Std Error Mean**	0.00591257

Basic Statistical Measures			
Location		**Variability**	
Mean	0.248620	**Std Deviation**	0.09102
Median	0.239000	**Variance**	0.00829
Mode	0.250000	**Range**	0.72300
		Interquartile Range	0.10300

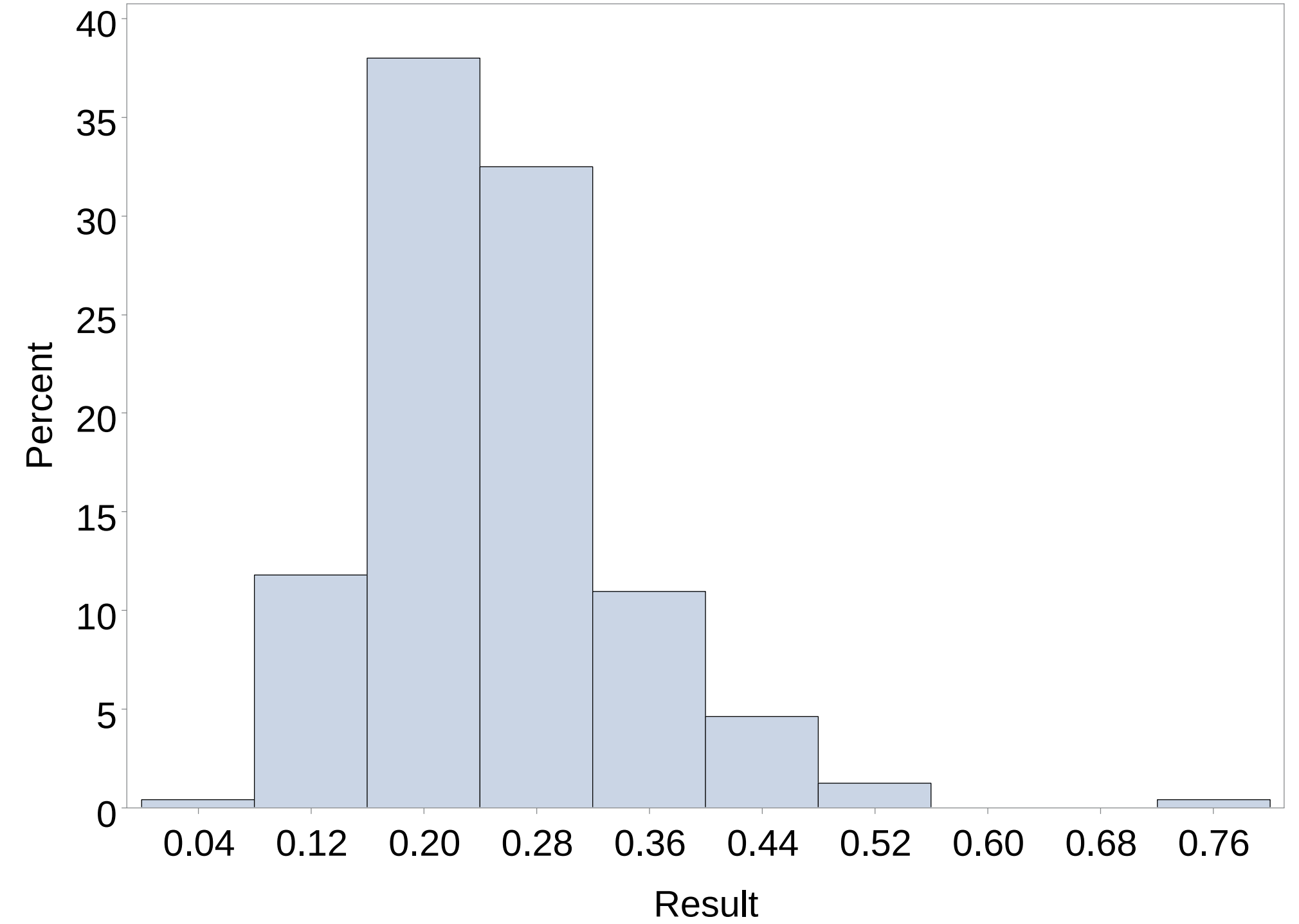
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.04942	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.765
99%	0.506
95%	0.440
90%	0.378
75% Q3	0.289
50% Median	0.239
25% Q1	0.186
10%	0.154
5%	0.133
1%	0.088
0% Min	0.042

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.042	53281	0.463	53349
0.087	53260	0.496	53157
0.088	53272	0.506	53336
0.094	53256	0.509	53337
0.097	53326	0.765	53201


Parameter=Total Phosphorus (mg/L) Sample Location=20 psu
Percent
40
35
30
25
20
15
10
5
0
0.04
0.12
0.20
0.28
0.36
0.44
0.52
0.60
0.68
0.76
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=Station 18

Moments			
N	133	**Sum Weights**	133
Mean	0.79226316	**Sum Observations**	105.371
Std Deviation	0.1809488	**Variance**	0.03274247
Skewness	0.85537451	**Kurtosis**	1.15240675
Uncorrected SS	87.803567	**Corrected SS**	4.32200579
Coeff Variation	22.8394818	**Std Error Mean**	0.01569025

Basic Statistical Measures			
Location		**Variability**	
Mean	0.792263	**Std Deviation**	0.18095
Median	0.781000	**Variance**	0.03274
Mode	0.640000	**Range**	1.02000
		Interquartile Range	0.24800

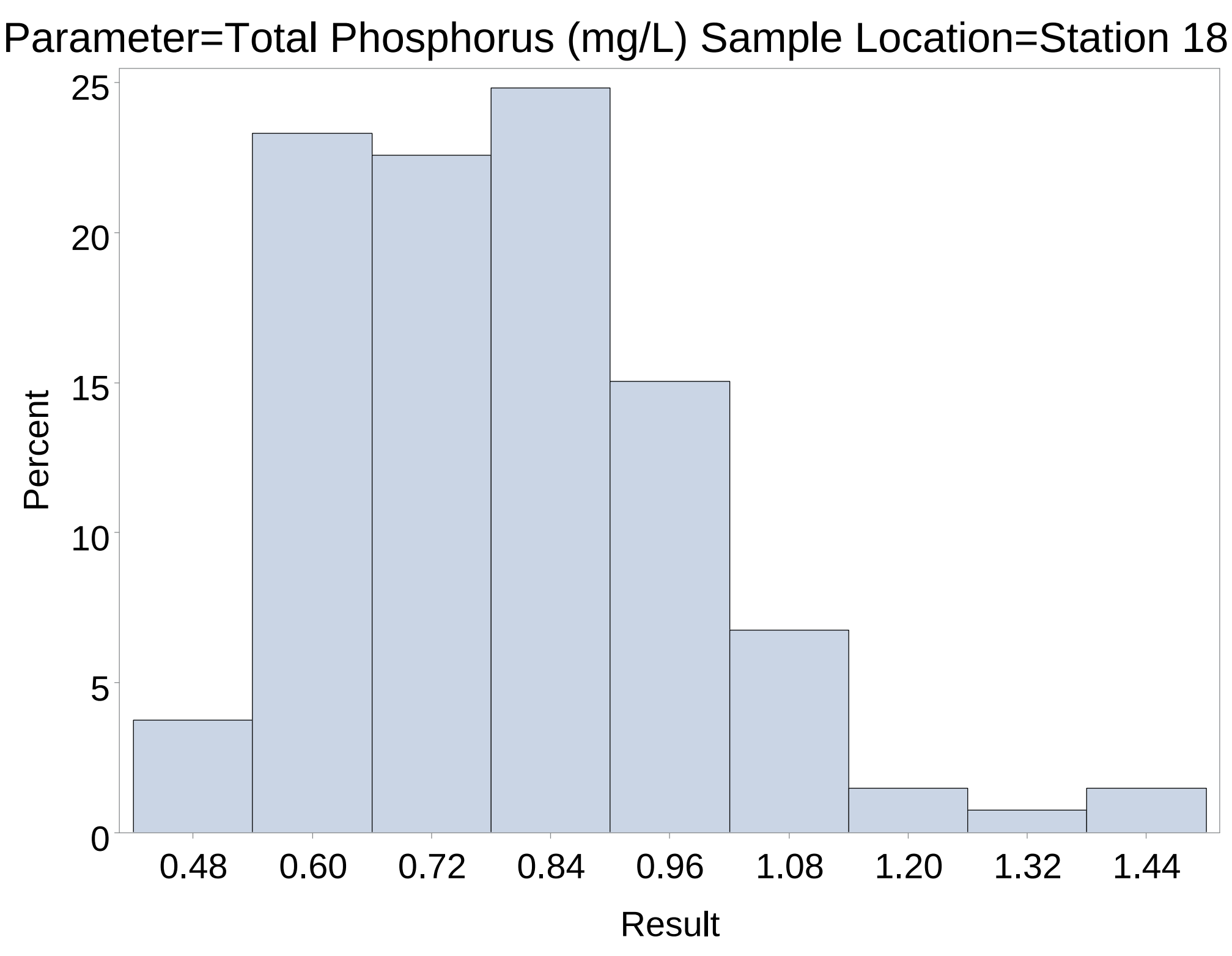
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.49398	**Pr > |t|**	<.0001
Sign	**M**	66.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	4455.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.440
99%	1.380
95%	1.100
90%	1.030
75% Q3	0.904
50% Median	0.781
25% Q1	0.656
10%	0.597
5%	0.570
1%	0.425
0% Min	0.420

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.420	53469	1.18	53482
0.425	53383	1.25	53483
0.510	53452	1.26	53478
0.531	53408	1.38	53484
0.533	53440	1.44	53442


Parameter=Total Phosphorus (mg/L) Sample Location=Station 18
Percent
25
20
15
10
5
0
0.48
0.60
0.72
0.84
0.96
1.08
1.20
1.32
1.44
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=0 psu

Moments			
N	218	**Sum Weights**	218
Mean	4.9108578	**Sum Observations**	1070.567
Std Deviation	5.93678503	**Variance**	35.2454165
Skewness	6.45229446	**Kurtosis**	61.9322129
Uncorrected SS	12905.6577	**Corrected SS**	7648.25539
Coeff Variation	120.890999	**Std Error Mean**	0.40208982

Basic Statistical Measures			
Location		**Variability**	
Mean	4.910858	**Std Deviation**	5.93679
Median	3.565000	**Variance**	35.24542
Mode	2.000000	**Range**	68.03000
		Interquartile Range	4.00000

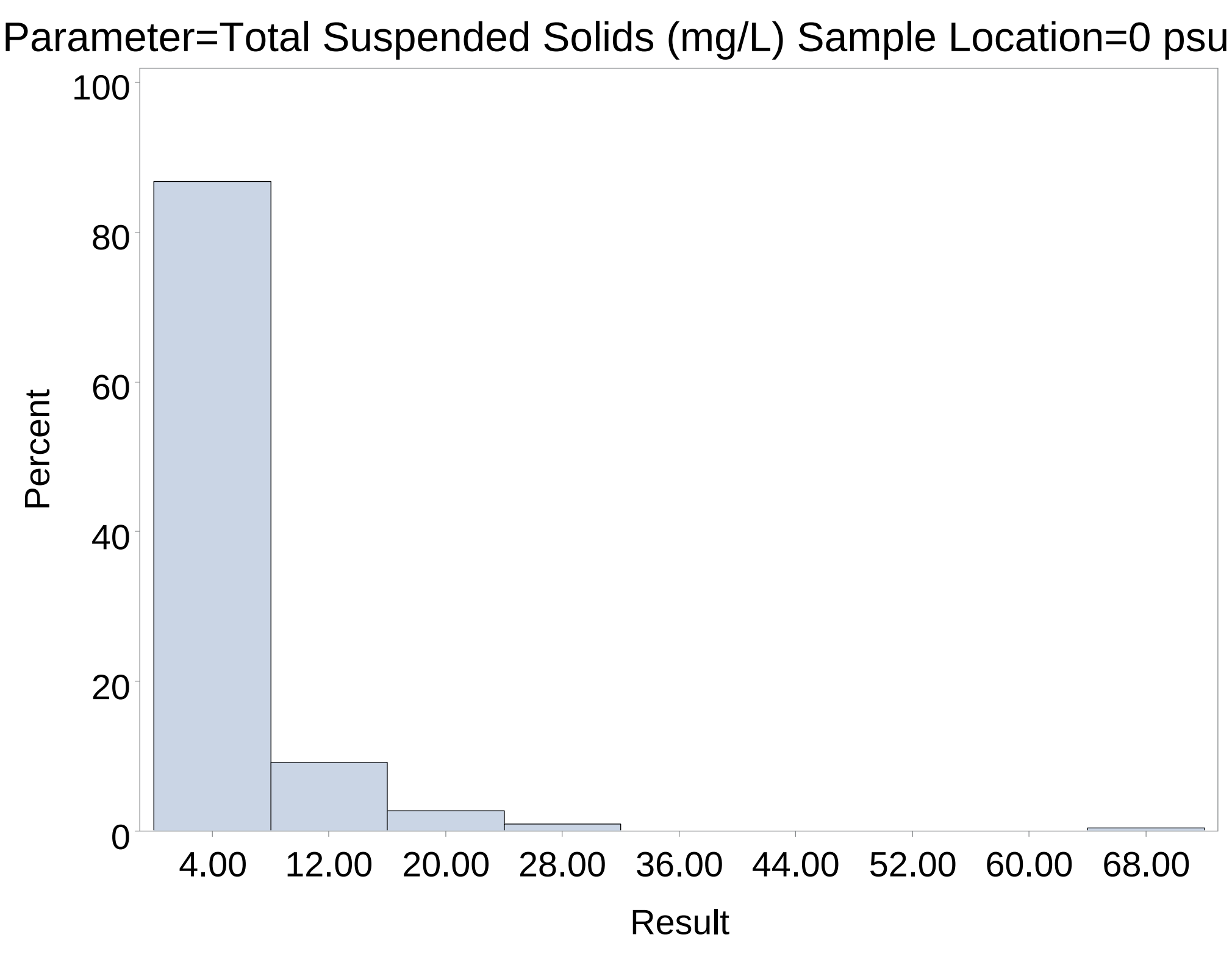
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.21334	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	68.600
99%	24.000
95%	13.200
90%	9.000
75% Q3	6.000
50% Median	3.565
25% Q1	2.000
10%	1.060
5%	0.750
1%	0.570
0% Min	0.570

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	53692	18.2	53544
0.57	53677	22.3	53712
0.57	53670	24.0	53713
0.57	53621	26.2	53563
0.57	53617	68.6	53504


Parameter=Total Suspended Solids (mg/L) Sample Location=0 psu
100
80
60
40
20
0
Percent
4.00
12.00
20.00
28.00
36.00
44.00
52.00
60.00
68.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=6 psu

Moments			
N	219	**Sum Weights**	219
Mean	6.93164384	**Sum Observations**	1518.03
Std Deviation	5.14777542	**Variance**	26.4995918
Skewness	2.36090293	**Kurtosis**	8.26815807
Uncorrected SS	16299.3543	**Corrected SS**	5776.91101
Coeff Variation	74.2648576	**Std Error Mean**	0.34785443

Basic Statistical Measures			
Location		**Variability**	
Mean	6.931644	**Std Deviation**	5.14778
Median	5.600000	**Variance**	26.49959
Mode	5.000000	**Range**	35.43000
		Interquartile Range	4.40000

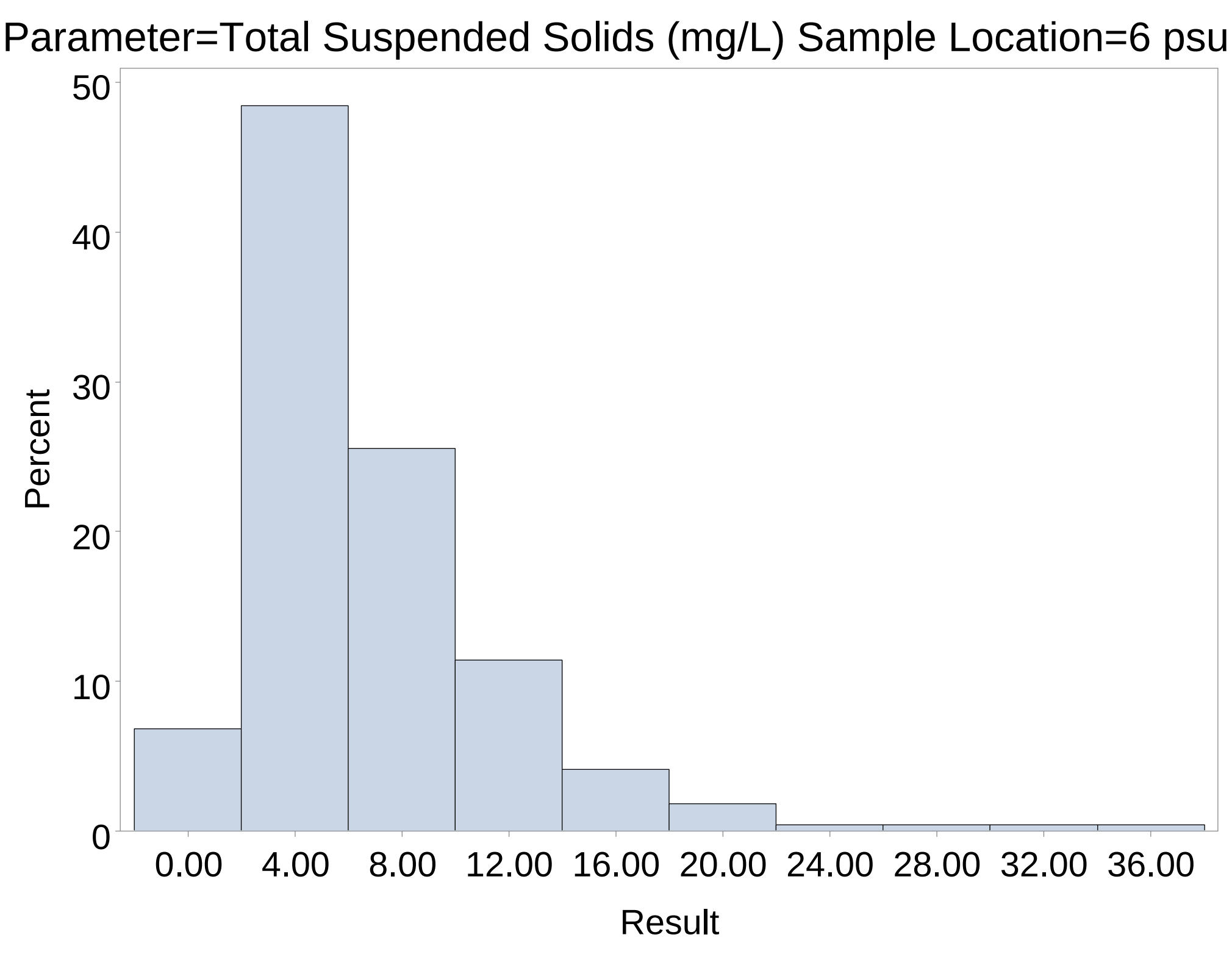
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.92685	**Pr > |t|**	<.0001
Sign	**M**	109.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.00
99%	28.40
95%	17.00
90%	12.50
75% Q3	8.20
50% Median	5.60
25% Q1	3.80
10%	2.40
5%	1.40
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	53923	21.8	53775
0.57	53890	23.2	53763
0.57	53867	28.4	53770
0.60	53924	32.8	53771
0.90	53730	36.0	53839


Parameter=Total Suspended Solids (mg/L) Sample Location=6 psu
Percent
50
40
30
20
10
0
0.00
4.00
8.00
12.00
16.00
20.00
24.00
28.00
32.00
36.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=12 psu

Moments			
N	219	**Sum Weights**	219
Mean	8.49345662	**Sum Observations**	1860.067
Std Deviation	9.74715953	**Variance**	95.0071189
Skewness	7.58545937	**Kurtosis**	78.0258159
Uncorrected SS	36509.9503	**Corrected SS**	20711.5519
Coeff Variation	114.760809	**Std Error Mean**	0.658652

Basic Statistical Measures			
Location		**Variability**	
Mean	8.493457	**Std Deviation**	9.74716
Median	6.440000	**Variance**	95.00712
Mode	5.000000	**Range**	118.43000
		Interquartile Range	5.50000

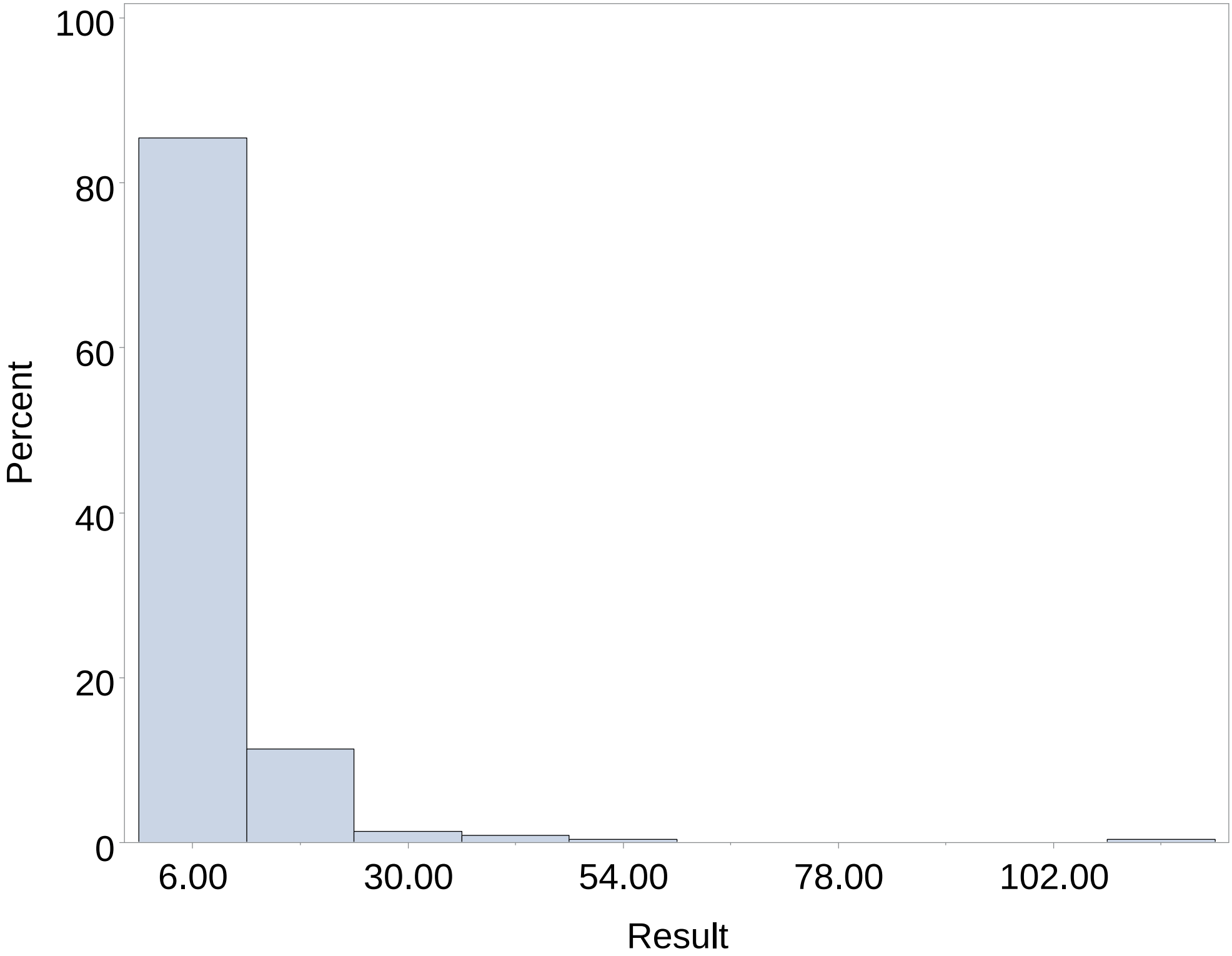
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.89521	**Pr > |t|**	<.0001
Sign	**M**	109.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	119.00
99%	44.80
95%	17.00
90%	13.40
75% Q3	10.00
50% Median	6.44
25% Q1	4.50
10%	3.20
5%	2.25
1%	0.80
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.570	54156	32.6	53957
0.667	54144	38.6	53990
0.800	54109	44.8	53979
1.000	53962	49.2	53989
1.200	54153	119.0	54000


100
80
60
40
20
0
Percent
6.00
30.00
54.00
78.00
102.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=20 psu

Moments			
N	219	**Sum Weights**	219
Mean	9.55716895	**Sum Observations**	2093.02
Std Deviation	7.90651544	**Variance**	62.5129864
Skewness	3.26825276	**Kurtosis**	15.991703
Uncorrected SS	33631.1768	**Corrected SS**	13627.831
Coeff Variation	82.7286353	**Std Error Mean**	0.5342728

Basic Statistical Measures			
Location		**Variability**	
Mean	9.557169	**Std Deviation**	7.90652
Median	7.650000	**Variance**	62.51299
Mode	7.000000	**Range**	60.73000
		Interquartile Range	7.06000

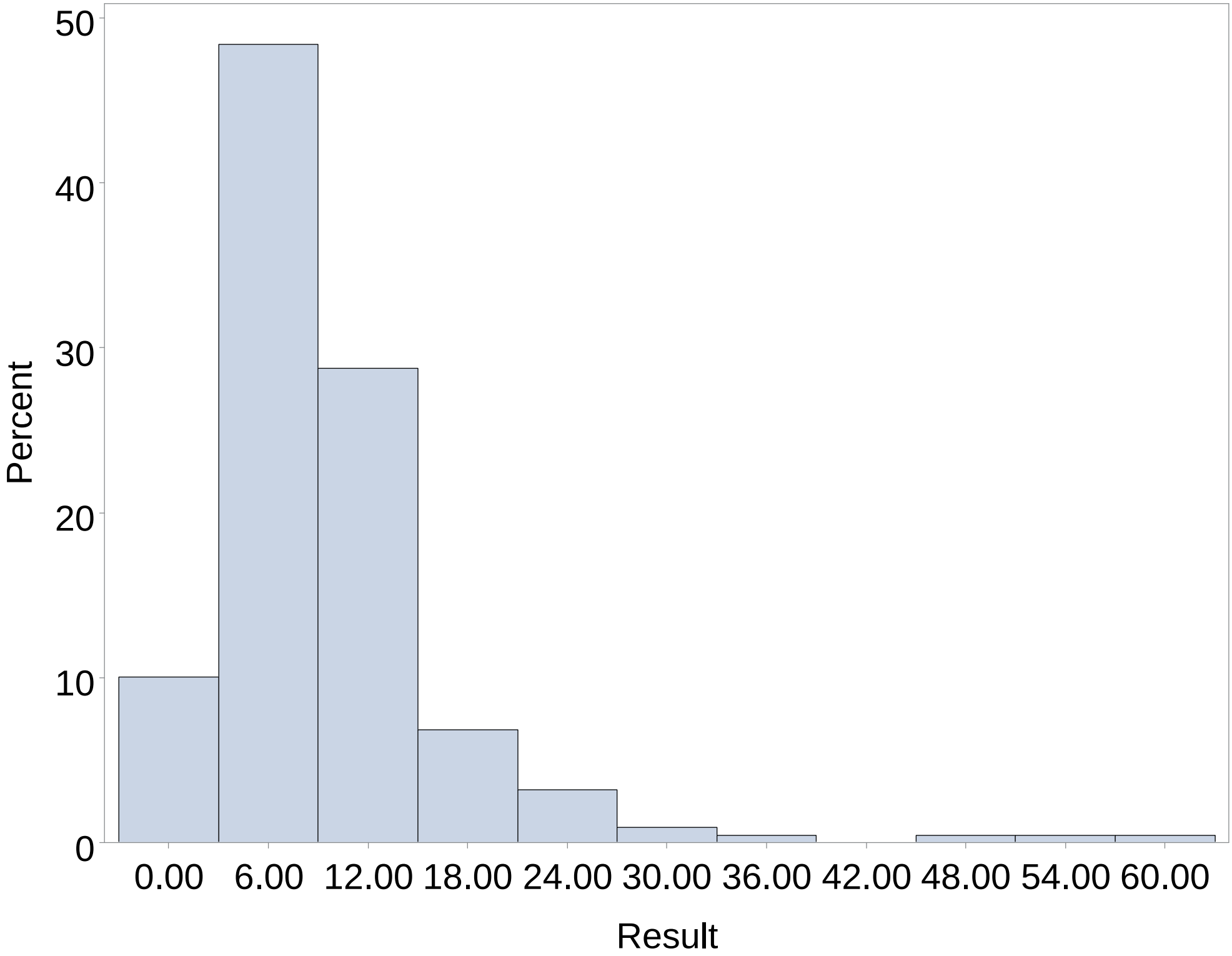
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.88818	**Pr > |t|**	<.0001
Sign	**M**	109.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	61.30
99%	50.20
95%	22.60
90%	17.50
75% Q3	12.00
50% Median	7.65
25% Q1	4.94
10%	2.87
5%	2.10
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	54375	31.0	54253
0.57	54339	34.0	54184
0.57	54321	50.2	54208
0.57	54301	56.2	54266
1.00	54181	61.3	54347


50
40
30
20
10
0
Percent
0.00
6.00
12.00
18.00
24.00
30.00
36.00
42.00
48.00
54.00
60.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=Station 18

Moments			
N	218	**Sum Weights**	218
Mean	4.80194954	**Sum Observations**	1046.825
Std Deviation	3.74895561	**Variance**	14.0546682
Skewness	2.29178244	**Kurtosis**	6.62598285
Uncorrected SS	8076.66383	**Corrected SS**	3049.863
Coeff Variation	78.0715328	**Std Error Mean**	0.25391131

Basic Statistical Measures			
Location		**Variability**	
Mean	4.801950	**Std Deviation**	3.74896
Median	3.875000	**Variance**	14.05467
Mode	2.000000	**Range**	23.43000
		Interquartile Range	3.16000

Note: The mode displayed is the smallest of 4 modes with a count of 6.

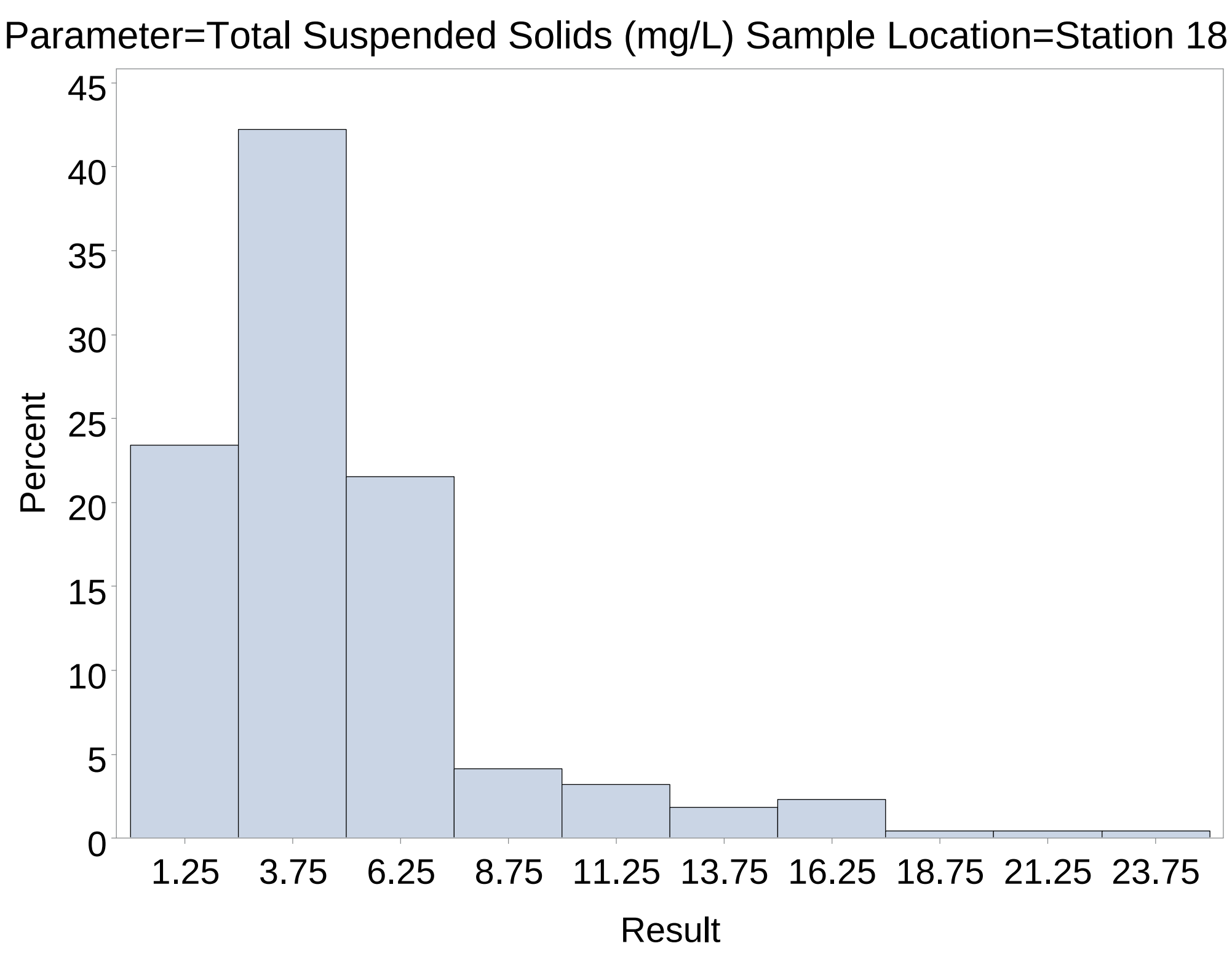
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.91192	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.000
99%	18.400
95%	13.300
90%	9.250
75% Q3	5.750
50% Median	3.875
25% Q1	2.590
10%	1.400
5%	0.800
1%	0.570
0% Min	0.570

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	54583	17.2	54444
0.57	54547	17.2	54534
0.57	54522	18.4	54437
0.57	54490	22.0	54588
0.60	54504	24.0	54589


Parameter=Total Suspended Solids (mg/L) Sample Location=Station 18
Percent
45
40
35
30
25
20
15
10
5
0
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=0 psu

Moments			
N	155	**Sum Weights**	155
Mean	3.55929032	**Sum Observations**	551.69
Std Deviation	2.16790045	**Variance**	4.69979235
Skewness	3.67612638	**Kurtosis**	22.2705596
Uncorrected SS	2687.3929	**Corrected SS**	723.768022
Coeff Variation	60.9082219	**Std Error Mean**	0.17412995

Basic Statistical Measures			
Location		**Variability**	
Mean	3.559290	**Std Deviation**	2.16790
Median	3.300000	**Variance**	4.69979
Mode	2.800000	**Range**	19.10000
		Interquartile Range	1.80000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

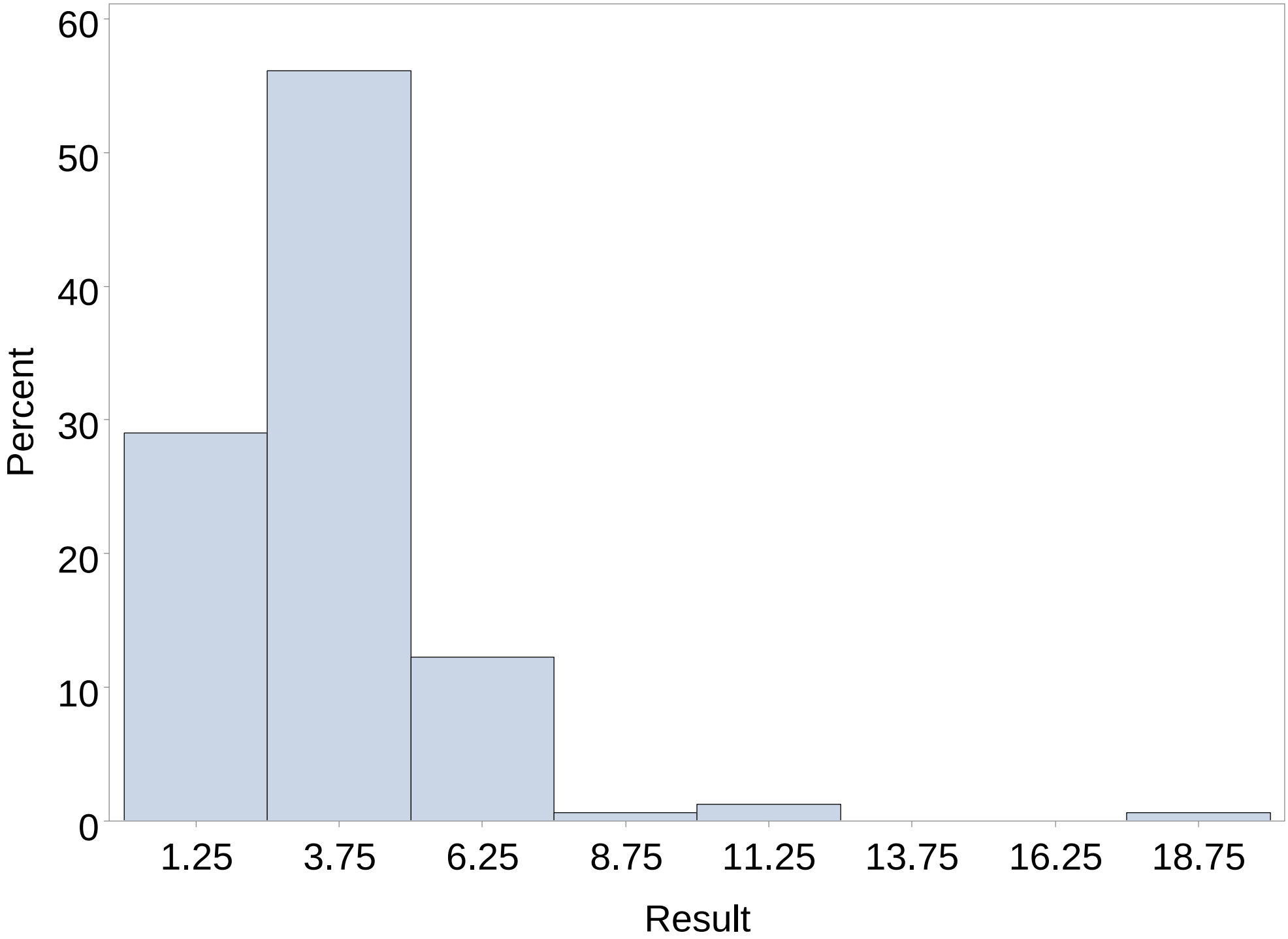
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.44043	**Pr > |t|**	<.0001
Sign	**M**	77.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.90
99%	12.10
95%	6.80
90%	5.50
75% Q3	4.10
50% Median	3.30
25% Q1	2.30
10%	1.80
5%	1.40
1%	0.89
0% Min	0.80

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.80	54727	7.2	54678
0.89	54607	9.3	54673
0.90	54729	11.3	54672
0.90	54685	12.1	54670
1.00	54728	19.9	54671


Parameter=Turbidity (NTU) Sample Location=0 psu
Percent
60
50
40
30
20
10
0
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=6 psu

Moments			
N	155	**Sum Weights**	155
Mean	3.79741935	**Sum Observations**	588.6
Std Deviation	1.93412816	**Variance**	3.74085174
Skewness	1.86501416	**Kurtosis**	3.85634138
Uncorrected SS	2811.2522	**Corrected SS**	576.091168
Coeff Variation	50.9326987	**Std Error Mean**	0.15535291

Basic Statistical Measures			
Location		**Variability**	
Mean	3.797419	**Std Deviation**	1.93413
Median	3.300000	**Variance**	3.74085
Mode	3.900000	**Range**	10.30000
		Interquartile Range	1.90000

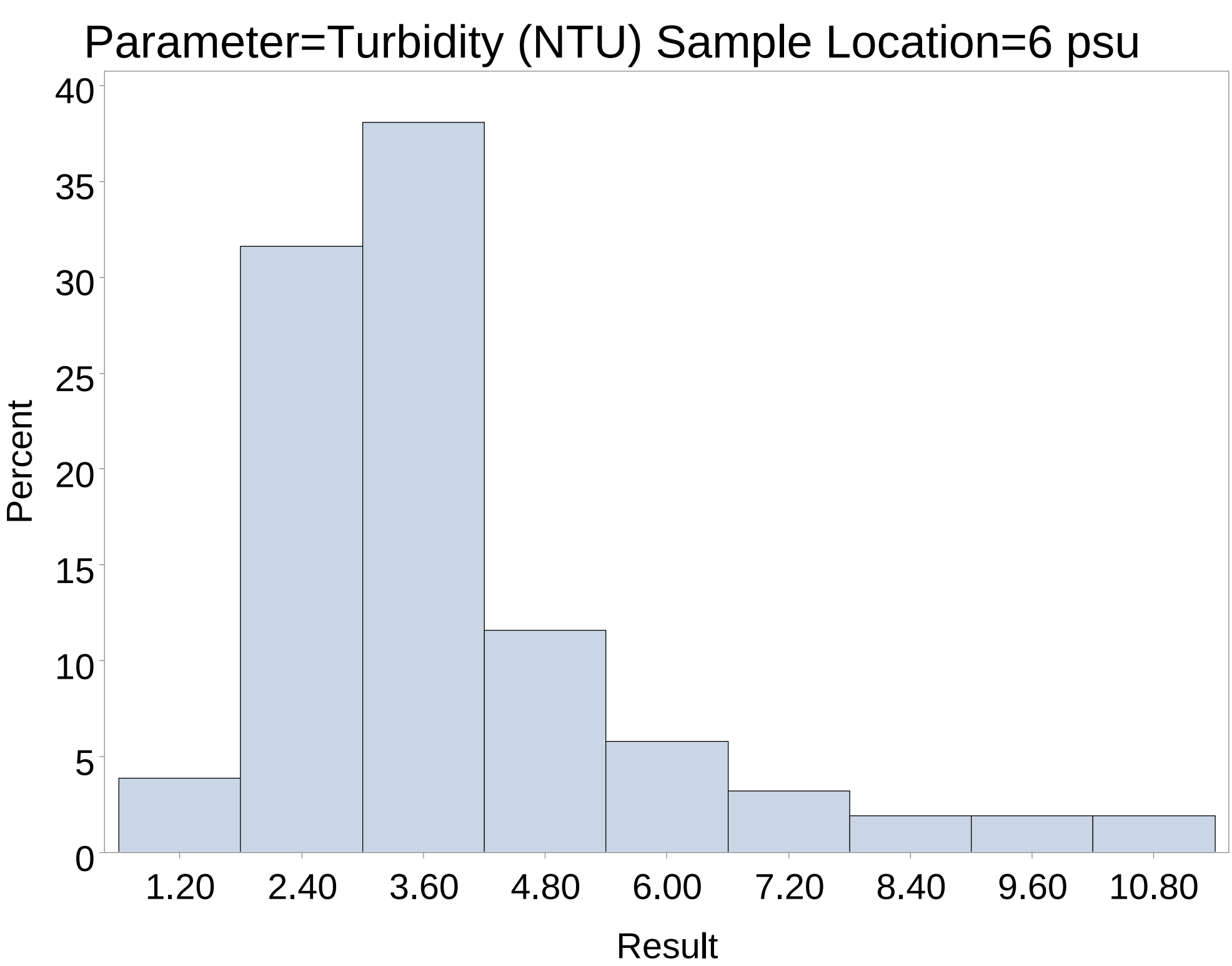
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.44382	**Pr > |t|**	<.0001
Sign	**M**	77.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.3
99%	11.3
95%	8.4
90%	6.1
75% Q3	4.4
50% Median	3.3
25% Q1	2.5
10%	2.1
5%	1.8
1%	1.5
0% Min	1.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	54876	9.8	54892
1.5	54872	10.1	54777
1.5	54850	10.3	54809
1.6	54868	11.3	54779
1.7	54866	11.3	54814


Parameter=Turbidity (NTU) Sample Location=6 psu
Percent
0
5
10
15
20
25
30
35
40
1.20
2.40
3.60
4.80
6.00
7.20
8.40
9.60
10.80
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=12 psu

Moments			
N	155	**Sum Weights**	155
Mean	3.59412903	**Sum Observations**	557.09
Std Deviation	2.68944589	**Variance**	7.2331192
Skewness	5.21350187	**Kurtosis**	40.9078475
Uncorrected SS	3116.1537	**Corrected SS**	1113.90036
Coeff Variation	74.8288631	**Std Error Mean**	0.21602149

Basic Statistical Measures			
Location		**Variability**	
Mean	3.594129	**Std Deviation**	2.68945
Median	3.000000	**Variance**	7.23312
Mode	2.400000	**Range**	26.46000
		Interquartile Range	1.70000

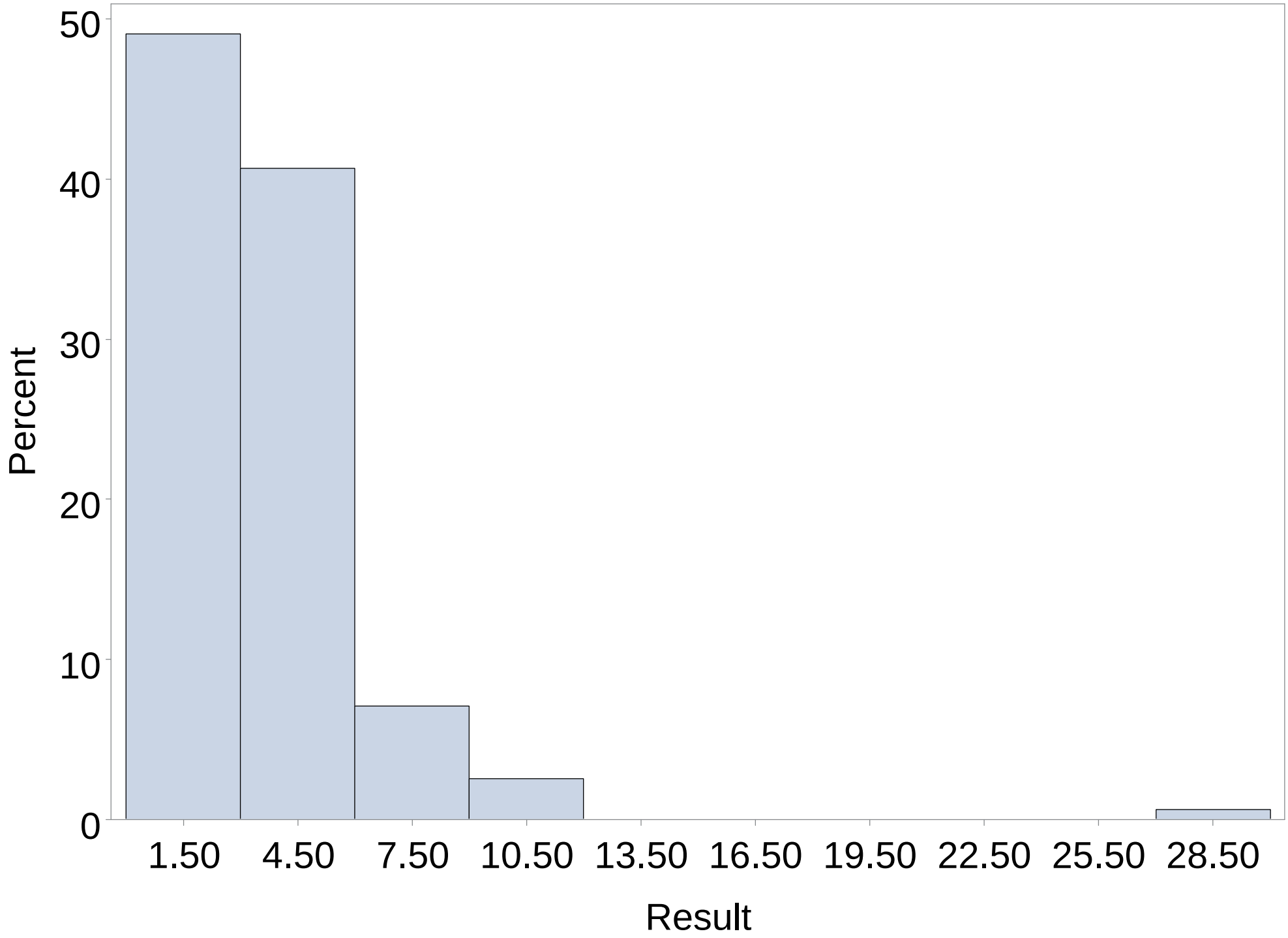
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.63783	**Pr > |t|**	<.0001
Sign	**M**	77.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	27.50
99%	11.90
95%	6.80
90%	6.00
75% Q3	4.00
50% Median	3.00
25% Q1	2.30
10%	1.75
5%	1.40
1%	1.10
0% Min	1.04

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.04	55022	9.3	54958
1.10	54939	10.5	54927
1.20	55031	11.4	54952
1.30	55021	11.9	54951
1.30	54998	27.5	54961


Parameter=Turbidity (NTU) Sample Location=12 psu
Percent
50
40
30
20
10
0
1.50
4.50
7.50
10.50
13.50
16.50
19.50
22.50
25.50
28.50
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=20 psu

Moments			
N	155	**Sum Weights**	155
Mean	2.90167742	**Sum Observations**	449.76
Std Deviation	1.76486298	**Variance**	3.11474132
Skewness	2.00804971	**Kurtosis**	5.4691257
Uncorrected SS	1784.7286	**Corrected SS**	479.670164
Coeff Variation	60.8221632	**Std Error Mean**	0.14175721

Basic Statistical Measures			
Location		**Variability**	
Mean	2.901677	**Std Deviation**	1.76486
Median	2.500000	**Variance**	3.11474
Mode	2.500000	**Range**	10.60000
		Interquartile Range	1.90000

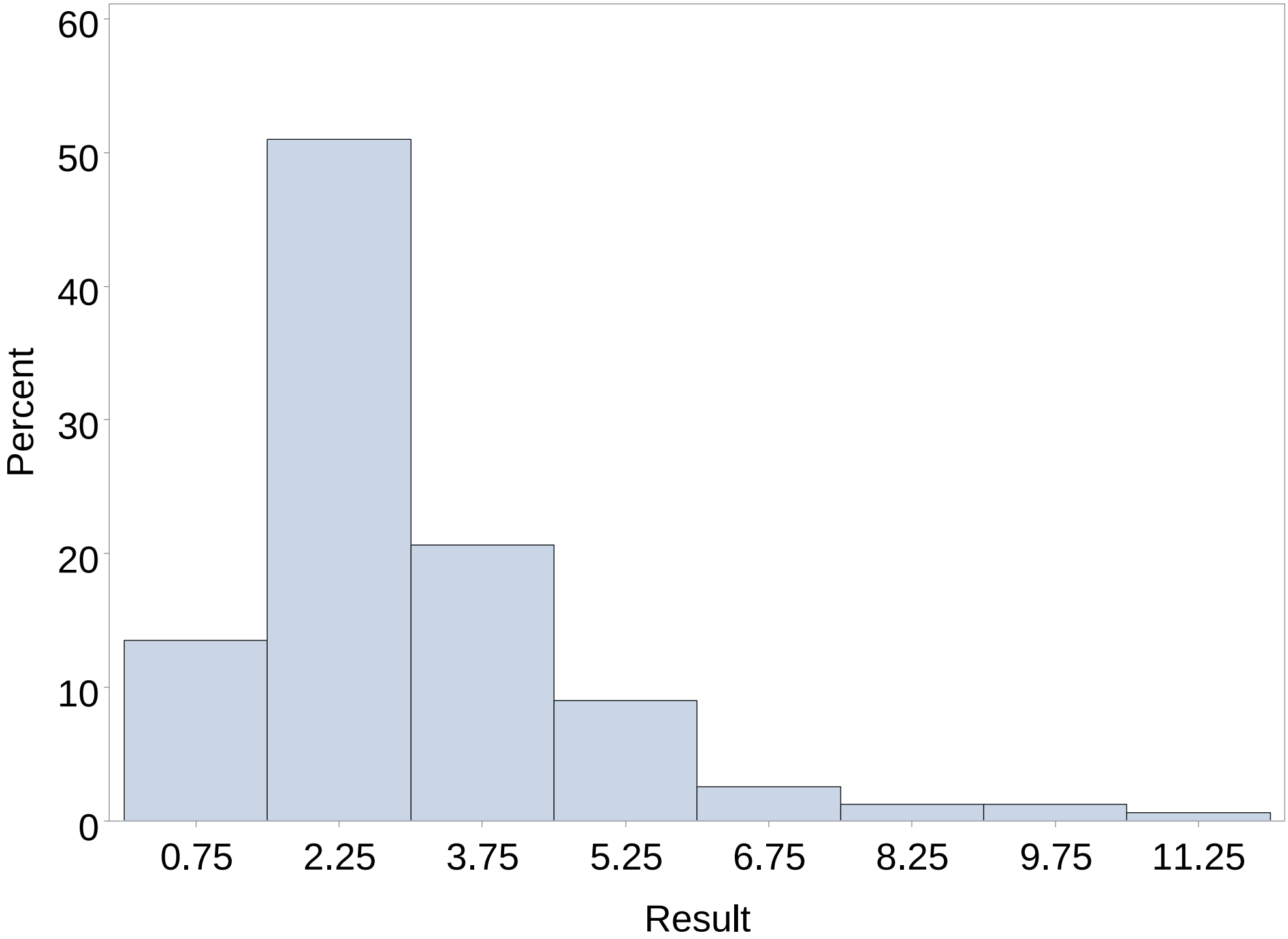
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.46935	**Pr > |t|**	<.0001
Sign	**M**	77.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.1
99%	10.4
95%	6.3
90%	4.8
75% Q3	3.6
50% Median	2.5
25% Q1	1.7
10%	1.3
5%	1.0
1%	0.8
0% Min	0.5

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	55163	8.21	55073
0.8	55154	8.40	55171
0.8	55152	9.20	55158
0.9	55179	10.40	55082
0.9	55170	11.10	55212


Parameter=Turbidity (NTU) Sample Location=20 psu
Percent
60
50
40
30
20
10
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=Station 18

Moments			
N	35	**Sum Weights**	35
Mean	2.68457143	**Sum Observations**	93.96
Std Deviation	1.39586857	**Variance**	1.94844908
Skewness	2.23317854	**Kurtosis**	7.37208625
Uncorrected SS	318.4896	**Corrected SS**	66.2472686
Coeff Variation	51.9959558	**Std Error Mean**	0.23594485

Basic Statistical Measures			
Location		**Variability**	
Mean	2.684571	**Std Deviation**	1.39587
Median	2.600000	**Variance**	1.94845
Mode	1.800000	**Range**	7.40000
		Interquartile Range	1.40000

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

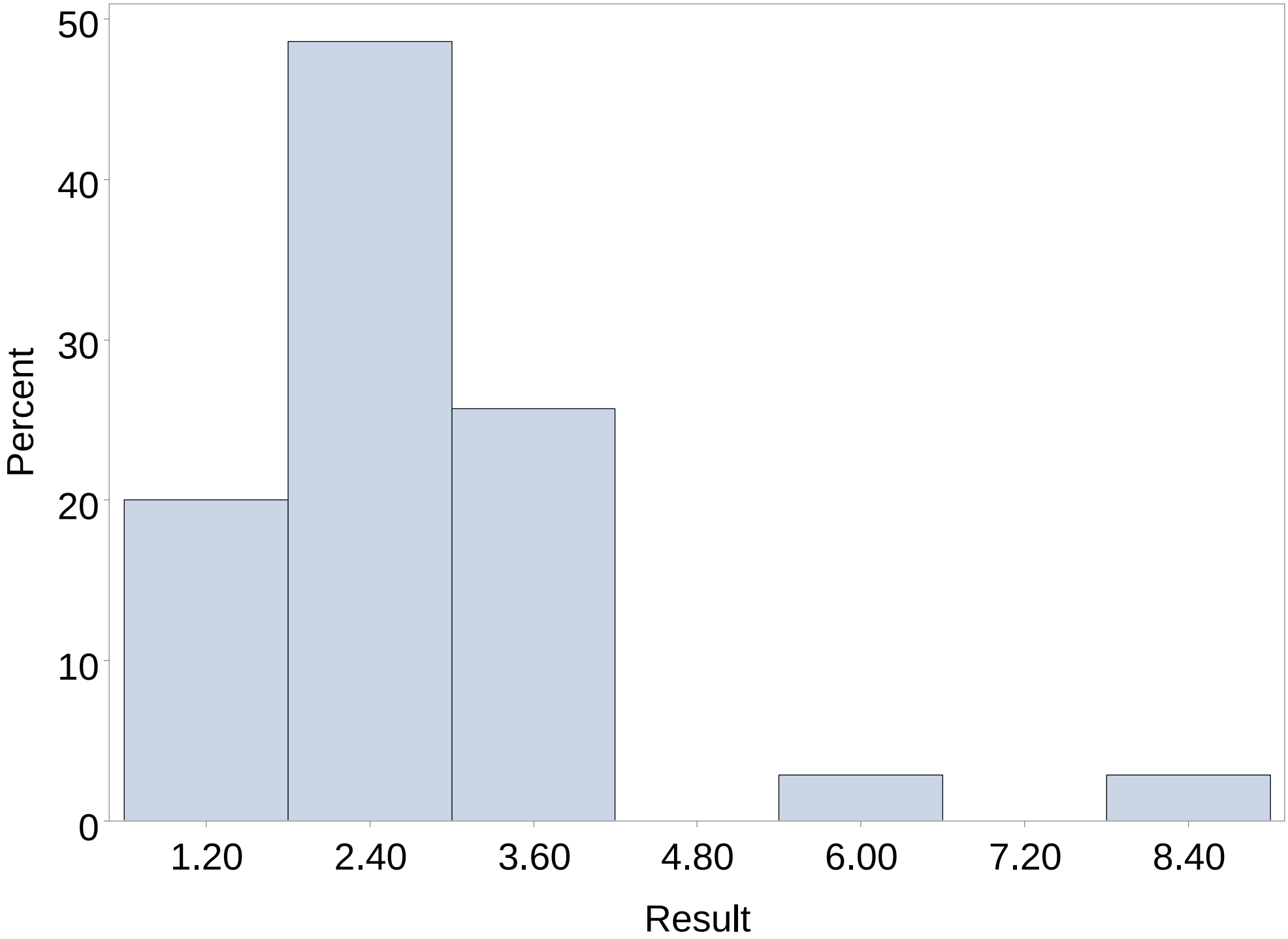
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.37796	**Pr > |t|**	<.0001
Sign	**M**	17.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	315	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.3
99%	8.3
95%	6.0
90%	3.7
75% Q3	3.2
50% Median	2.6
25% Q1	1.8
10%	1.4
5%	1.1
1%	0.9
0% Min	0.9

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.9	55228	3.7	55230
1.1	55217	3.7	55239
1.2	55229	3.8	55241
1.4	55227	6.0	55247
1.4	55221	8.3	55248


Parameter=Turbidity (NTU) Sample Location=Station 18
Percent
50
40
30
20
10
0
1.20
2.40
3.60
4.80
6.00
7.20
8.40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=0 psu

Moments			
N	207	**Sum Weights**	207
Mean	3.22921256	**Sum Observations**	668.447
Std Deviation	2.79022674	**Variance**	7.78536525
Skewness	3.65499306	**Kurtosis**	19.1236963
Uncorrected SS	3762.34269	**Corrected SS**	1603.78524
Coeff Variation	86.4057935	**Std Error Mean**	0.19393416

Basic Statistical Measures			
Location		**Variability**	
Mean	3.229213	**Std Deviation**	2.79023
Median	2.600000	**Variance**	7.78537
Mode	1.400000	**Range**	23.50000
		Interquartile Range	2.22000

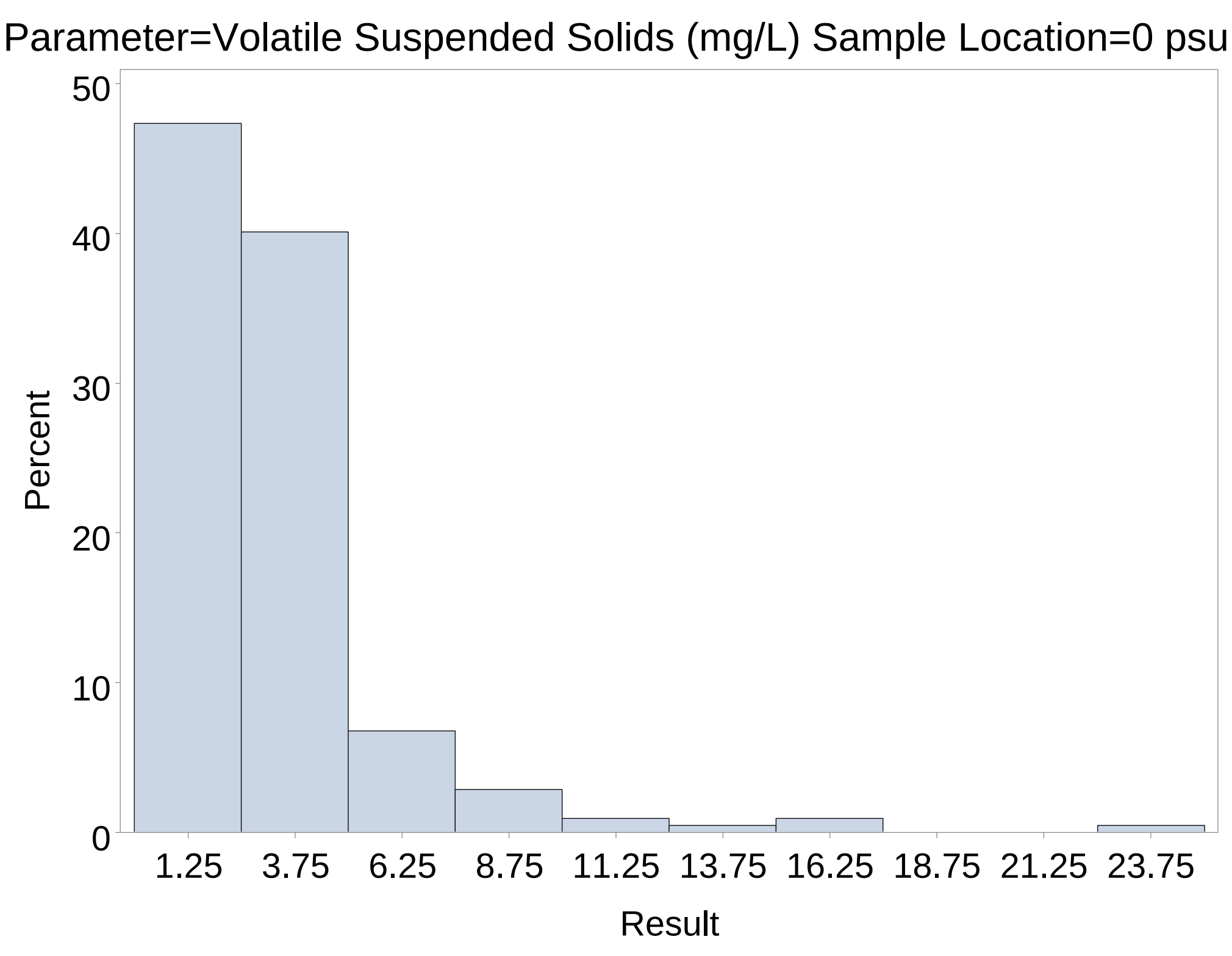
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.65108	**Pr > |t|**	<.0001
Sign	**M**	103.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10764	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.00
99%	15.30
95%	7.64
90%	5.50
75% Q3	3.80
50% Median	2.60
25% Q1	1.58
10%	1.40
5%	0.90
1%	0.60
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=0 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	55273	12.2	55305
0.6	55257	13.0	55438
0.6	55255	15.3	55449
0.6	55254	16.7	55446
0.6	55252	24.0	55450


Parameter=Volatile Suspended Solids (mg/L) Sample Location=0 psu
50
40
30
20
10
0
Percent
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=6 psu

Moments			
N	208	**Sum Weights**	208
Mean	4.33245192	**Sum Observations**	901.15
Std Deviation	3.38854567	**Variance**	11.4822418
Skewness	4.68192717	**Kurtosis**	37.2971984
Uncorrected SS	6281.0131	**Corrected SS**	2376.82405
Coeff Variation	78.2131166	**Std Error Mean**	0.23495337

Basic Statistical Measures			
Location		**Variability**	
Mean	4.332452	**Std Deviation**	3.38855
Median	3.750000	**Variance**	11.48224
Mode	1.400000	**Range**	35.40000
		Interquartile Range	2.60000

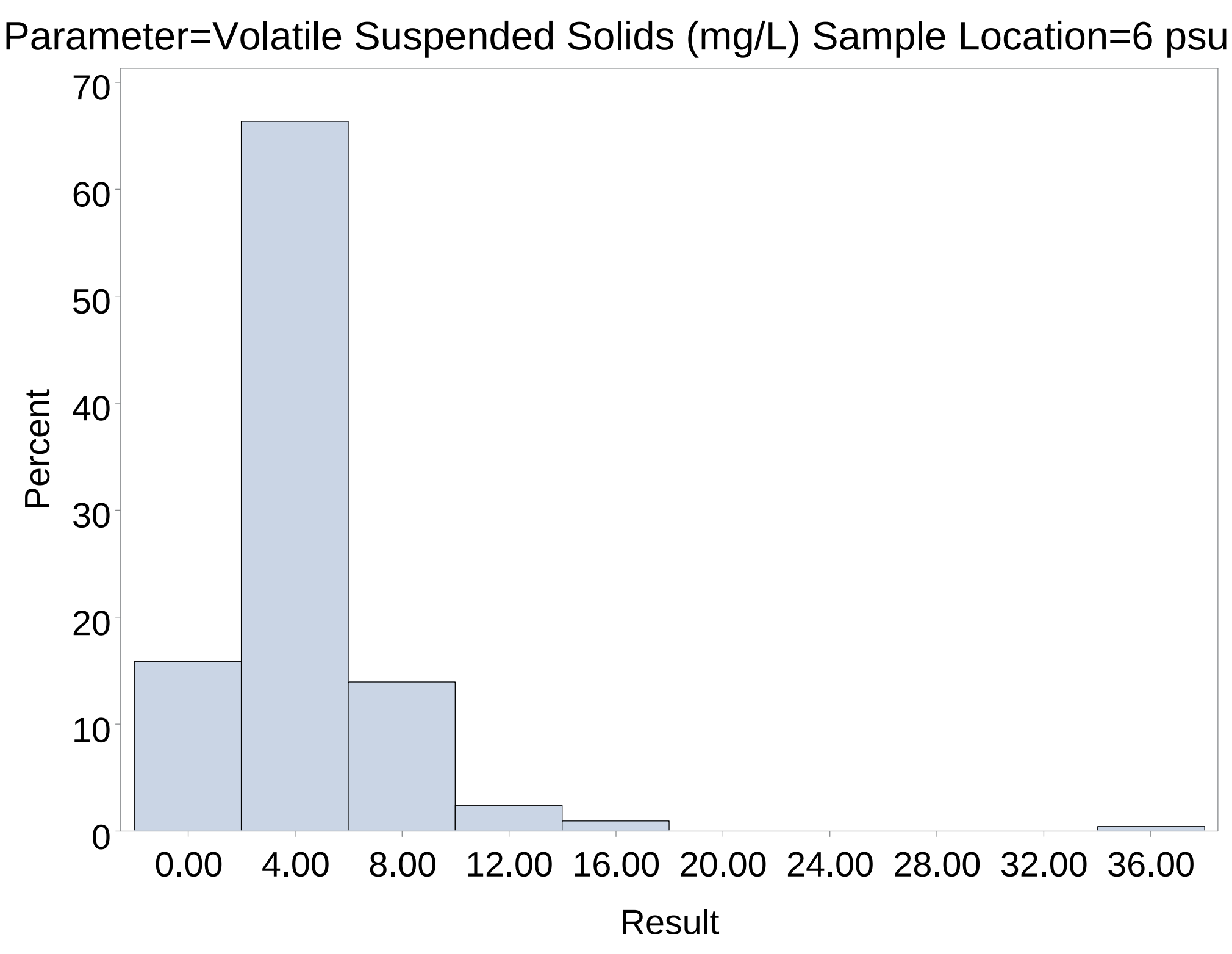
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.43962	**Pr > |t|**	<.0001
Sign	**M**	104	**Pr >= |M|**	<.0001
Signed Rank	**S**	10868	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.00
99%	14.80
95%	9.40
90%	7.25
75% Q3	5.00
50% Median	3.75
25% Q1	2.40
10%	1.40
5%	1.40
1%	0.90
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=6 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	55459	12.50	55612
0.8	55473	12.80	55573
0.9	55469	14.80	55497
1.1	55466	16.97	55486
1.2	55464	36.00	55565


Parameter=Volatile Suspended Solids (mg/L) Sample Location=6 psu
Percent
70
60
50
40
30
20
10
0
0.00
4.00
8.00
12.00
16.00
20.00
24.00
28.00
32.00
36.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=12 psu

Moments			
N	208	**Sum Weights**	208
Mean	5.24971154	**Sum Observations**	1091.94
Std Deviation	8.2685723	**Variance**	68.3692878
Skewness	11.1102775	**Kurtosis**	141.544802
Uncorrected SS	19884.8126	**Corrected SS**	14152.4426
Coeff Variation	157.505269	**Std Error Mean**	0.57332233

Basic Statistical Measures			
Location		**Variability**	
Mean	5.249712	**Std Deviation**	8.26857
Median	4.155000	**Variance**	68.36929
Mode	1.400000	**Range**	112.40000
		Interquartile Range	2.58500

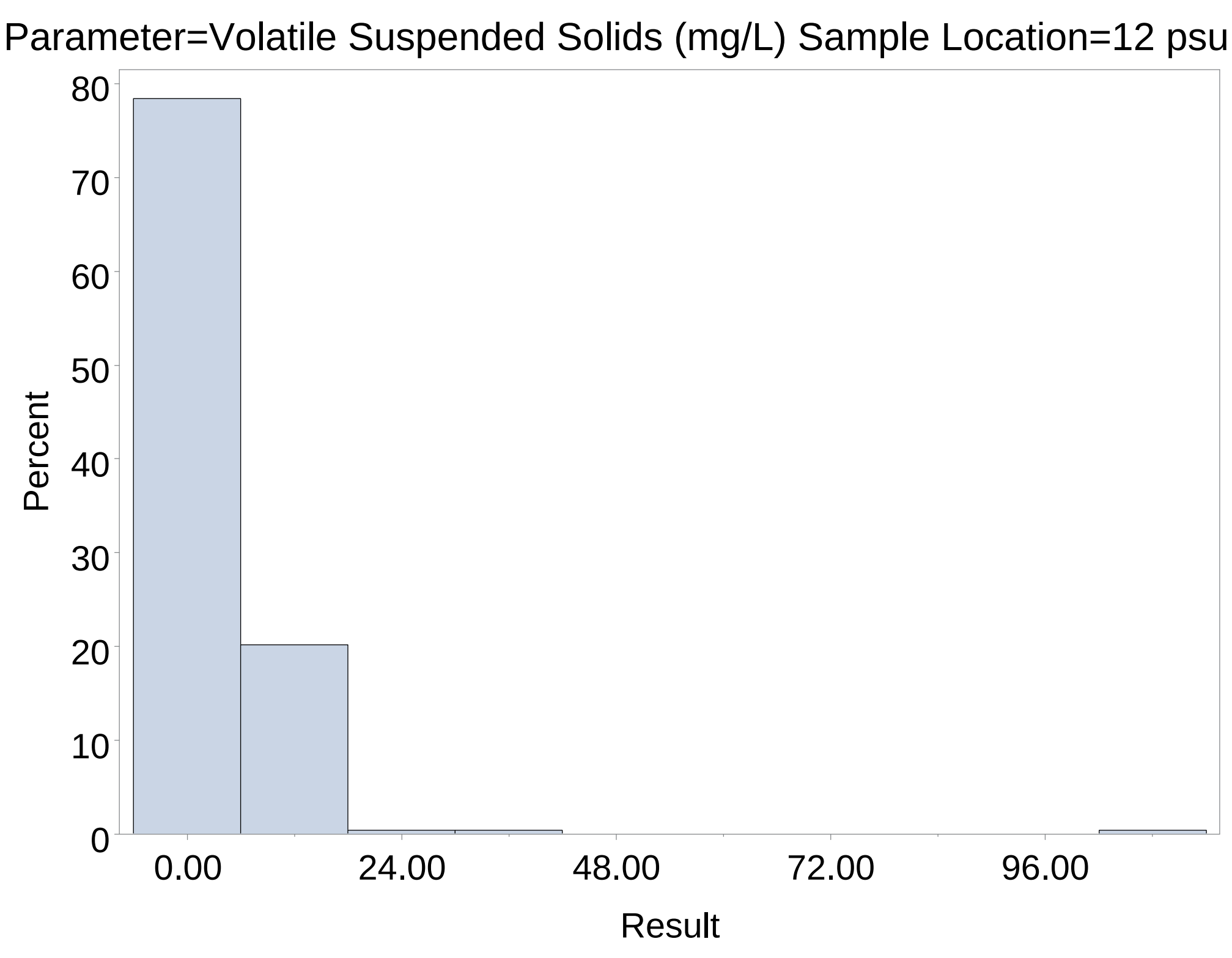
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.156649	**Pr > |t|**	<.0001
Sign	**M**	104	**Pr >= |M|**	<.0001
Signed Rank	**S**	10868	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	113.000
99%	18.000
95%	10.400
90%	7.800
75% Q3	5.620
50% Median	4.155
25% Q1	3.035
10%	1.600
5%	1.400
1%	1.000
0% Min	0.600

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=12 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	55670	14.8	55705
0.8	55681	16.0	55684
1.0	55680	18.0	55704
1.0	55671	37.2	55694
1.4	55871	113.0	55715


Parameter=Volatile Suspended Solids (mg/L) Sample Location=12 psu
Percent
80
70
60
50
40
30
20
10
0
0.00
24.00
48.00
72.00
96.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=20 psu

Moments			
N	208	**Sum Weights**	208
Mean	5.05125	**Sum Observations**	1050.66
Std Deviation	4.77921621	**Variance**	22.8409076
Skewness	6.75829701	**Kurtosis**	65.505257
Uncorrected SS	10035.2142	**Corrected SS**	4728.06788
Coeff Variation	94.6145254	**Std Error Mean**	0.33137902

Basic Statistical Measures			
Location		**Variability**	
Mean	5.051250	**Std Deviation**	4.77922
Median	4.400000	**Variance**	22.84091
Mode	1.400000	**Range**	55.60000
		Interquartile Range	2.82000

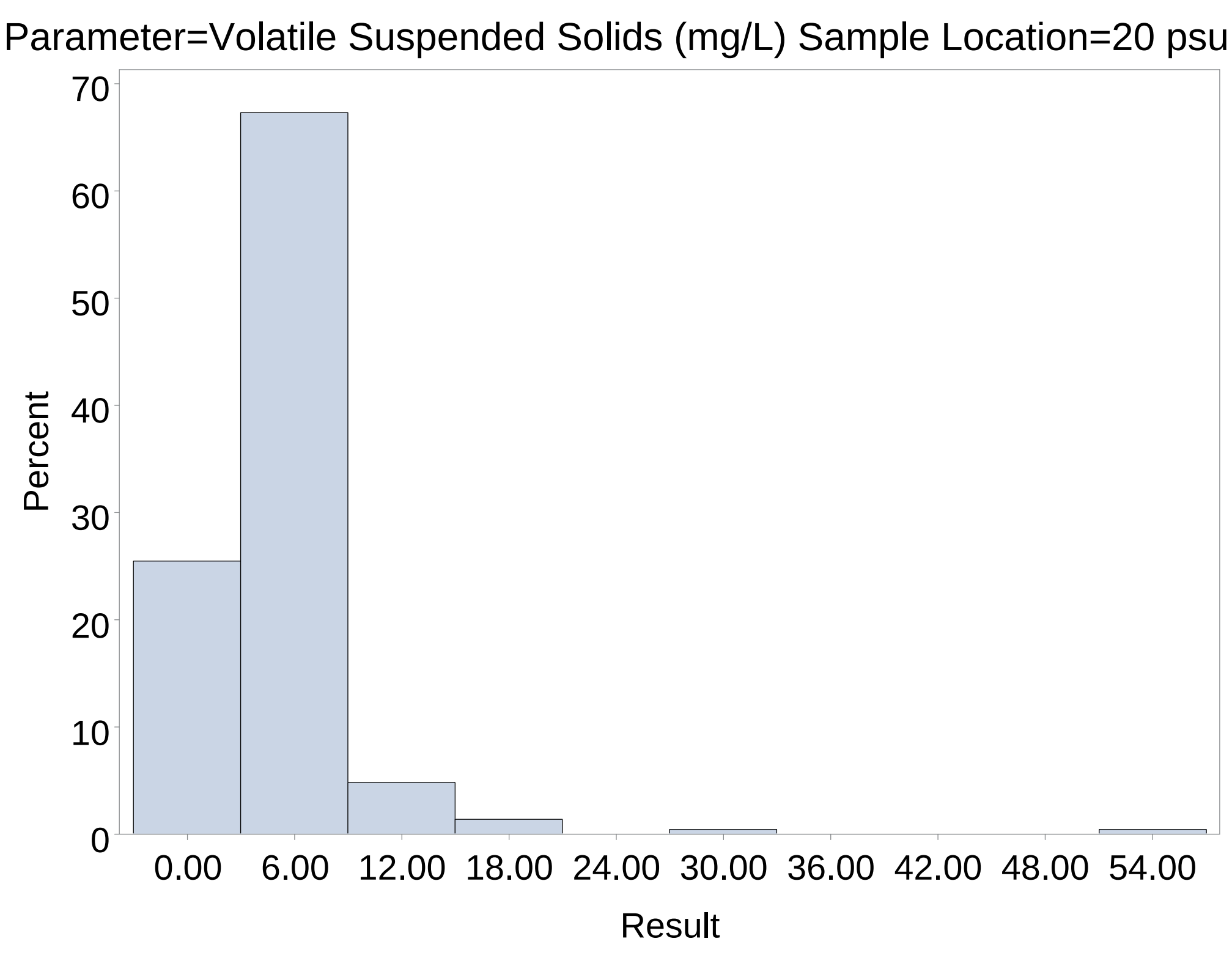
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.24312	**Pr > |t|**	<.0001
Sign	**M**	104	**Pr >= |M|**	<.0001
Signed Rank	**S**	10868	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	56.200
99%	16.200
95%	11.000
90%	8.500
75% Q3	5.665
50% Median	4.400
25% Q1	2.845
10%	1.800
5%	1.400
1%	0.900
0% Min	0.600

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=20 psu

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	55877	15.1	55959
0.8	55888	15.2	55953
0.9	55876	16.2	55912
1.3	55881	28.0	56051
1.4	56079	56.2	55970


Parameter=Volatile Suspended Solids (mg/L) Sample Location=20 psu
Percent
70
60
50
40
30
20
10
0
0.00
6.00
12.00
18.00
24.00
30.00
36.00
42.00
48.00
54.00
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=Station 18

Moments			
N	207	**Sum Weights**	207
Mean	3.21782609	**Sum Observations**	666.09
Std Deviation	2.57409775	**Variance**	6.62597923
Skewness	3.35433279	**Kurtosis**	15.5923692
Uncorrected SS	3508.3135	**Corrected SS**	1364.95172
Coeff Variation	79.9949308	**Std Error Mean**	0.17891216

Basic Statistical Measures			
Location		**Variability**	
Mean	3.217826	**Std Deviation**	2.57410
Median	2.500000	**Variance**	6.62598
Mode	1.400000	**Range**	19.40000
		Interquartile Range	1.87000

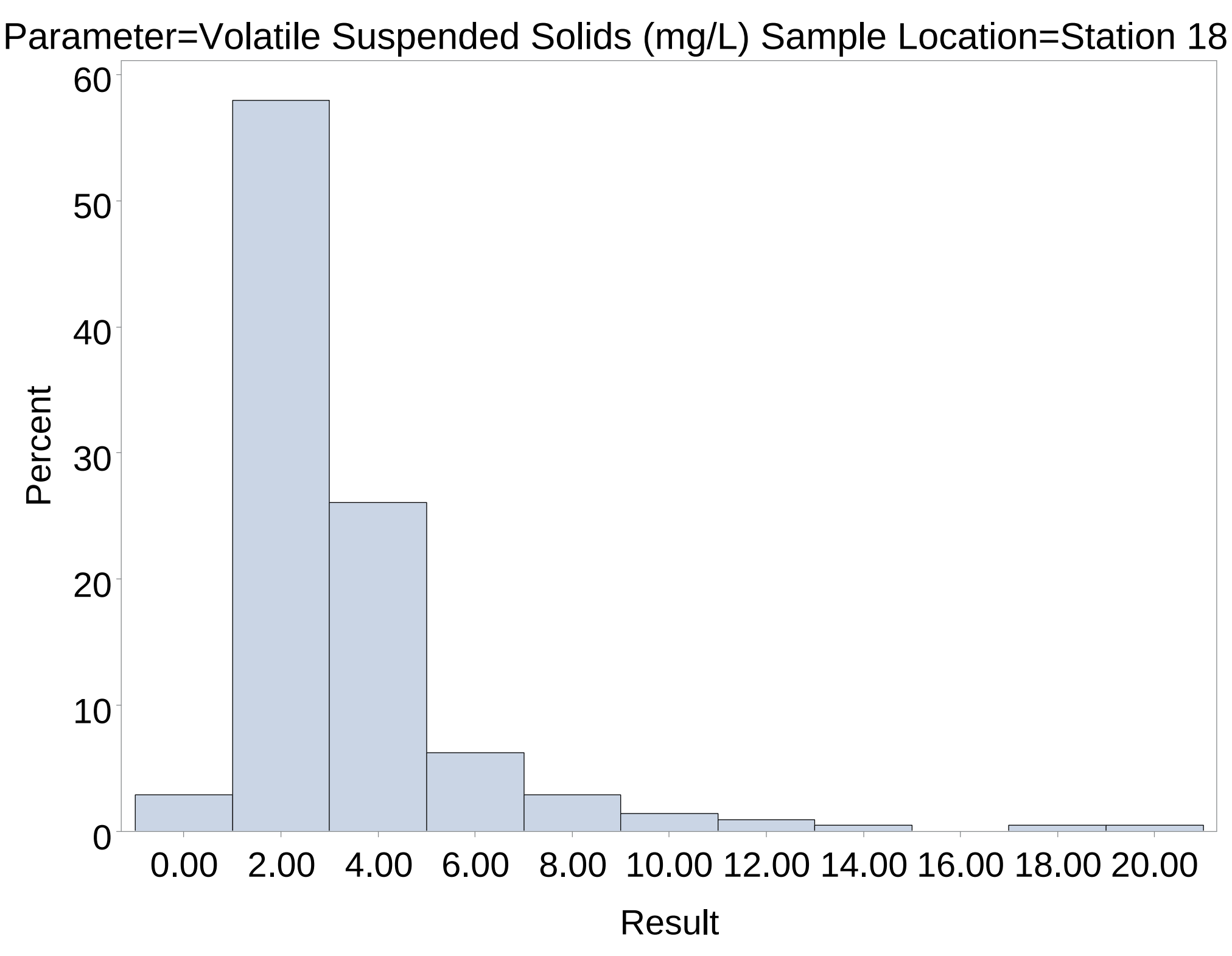
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.98551	**Pr > |t|**	<.0001
Sign	**M**	103.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10764	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	20.00
99%	13.30
95%	7.40
90%	5.60
75% Q3	3.62
50% Median	2.50
25% Q1	1.75
10%	1.40
5%	1.39
1%	0.60
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) Sample Location=Station 18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	56085	11.0	56286
0.6	56084	12.4	56136
0.6	56082	13.3	56271
0.8	56096	18.5	56282
0.8	56094	20.0	56281


Parameter=Volatile Suspended Solids (mg/L) Sample Location=Station 18
Percent
60
50
40
30
20
10
0
0.00
2.00
4.00
6.00
8.00
10.00
12.00
14.00
16.00
18.00
20.00
Result

APPENDIX B

Peace HBMP Fixed Station Water Quality Summary Statistics

Obs	parameter	level	_TYPE_	_FREQ_	startdate	enddate	numsamps
1	Alkalinity (mg/L)	Bottom	0	387	26AUG96	28JAN03	387
2	Alkalinity (mg/L)	Surface	0	484	26AUG96	19DEC18	484
3	Chlorophyll a (ug/L)	Bottom	0	1300	21JAN97	19DEC18	1300
4	Chlorophyll a (ug/L)	Surface	0	1310	21JAN97	19DEC18	1310
5	Chlorophyll b (mg/m3)	Bottom	0	1007	25FEB02	19DEC18	1007
6	Chlorophyll b (mg/m3)	Surface	0	1007	25FEB02	19DEC18	1007
7	Chlorophyll c (mg/m3)	Bottom	0	1007	25FEB02	19DEC18	1007
8	Chlorophyll c (mg/m3)	Surface	0	1007	25FEB02	19DEC18	1007
9	Chloride (mg/L)	Bottom	0	1338	26AUG96	19DEC18	1338
10	Chloride (mg/L)	Surface	0	1341	26AUG96	19DEC18	1341
11	Color (pcu)	Bottom	0	1339	26AUG96	19DEC18	1339
12	Color (pcu)	Surface	0	1341	26AUG96	19DEC18	1341
13	Bottom Conductivity (us/cm)	Bottom	0	4530	26AUG96	19DEC18	4530
14	Surface Conductivity (us/cm)	Surface	0	4528	26AUG96	19DEC18	4528
15	DOC	Bottom	0	391	26AUG96	25AUG04	391
16	DOC	Surface	0	393	26AUG96	25AUG04	393
17	Bottom Dissolved Oxygen (mg/L)	Bottom	0	4504	26AUG96	19DEC18	4504
18	Surface Dissolved Oxygen (mg/L)	Surface	0	4502	26AUG96	19DEC18	4502
19	Extinction Coeefficient (m-1)	Column	0	3692	21OCT96	19DEC18	3692
20	Iron (mg/L)	Bottom	0	1106	24JUL00	19DEC18	1106
21	Iron (mg/L)	Surface	0	1105	24JUL00	19DEC18	1105
22	Nitrate + Nitrite Nitrogen (mg/L)	Bottom	0	1337	26AUG96	19DEC18	1337
23	Nitrate + Nitrite Nitrogen (mg/L)	Surface	0	1340	26AUG96	19DEC18	1340
24	Ammonia/Ammonium (mg/L)	Bottom	0	1339	26AUG96	19DEC18	1339
25	Ammonia/Ammonium (mg/L)	Surface	0	1340	26AUG96	19DEC18	1340
26	Organic Nitrogen (mg/L)	Bottom	0	1328	26AUG96	19DEC18	1328
27	Organic Nitrogen (mg/L)	Surface	0	1330	26AUG96	19DEC18	1330
28	Orthophosphorus (mg/L)	Bottom	0	1339	26AUG96	19DEC18	1339
29	Orthophosphorus (mg/L)	Surface	0	1340	26AUG96	19DEC18	1340
30	1% light depth (m)	Column	0	3692	21OCT96	19DEC18	3692
31	10% light depth (m)	Column	0	3692	21OCT96	19DEC18	3692
32	50% light depth (m)	Column	0	3692	21OCT96	19DEC18	3692
33	Bottom pH (std. units)	Bottom	0	4514	26AUG96	19DEC18	4514
34	Surface pH (std. units)	Surface	0	4512	26AUG96	19DEC18	4512
35	Bottom Salinity (psu)	Bottom	0	4528	26AUG96	19DEC18	4528
36	Surface Salinity (psu)	Surface	0	4526	26AUG96	19DEC18	4526
37	Silica (mg/L)	Bottom	0	1338	26AUG96	19DEC18	1338
38	Silica (mg/L)	Surface	0	1341	26AUG96	19DEC18	1341
39	Total Dissolved Solids (mg/L)	Surface	0	94	27JAN11	19DEC18	94

Obs	parameter	level	_TYPE_	_FREQ_	startdate	enddate	numsamps
40	Bottom Temperature (deg C)	Bottom	0	4530	26AUG96	19DEC18	4530
41	Surface Temperature (deg C)	Surface	0	4528	26AUG96	19DEC18	4528
42	Total Kjeldahl Nitrogen (mg/L)	Bottom	0	1328	26AUG96	19DEC18	1328
43	Total Kjeldahl Nitrogen (mg/L)	Surface	0	1330	26AUG96	19DEC18	1330
44	Total Nitrogen (mg/L)	Bottom	0	1321	26AUG96	19DEC18	1321
45	Total Nitrogen (mg/L)	Surface	0	1325	26AUG96	19DEC18	1325
46	Total Organic Carbon (mg/L)	Bottom	0	397	26AUG96	24MAY05	397
47	Total Organic Carbon (mg/L)	Surface	0	399	26AUG96	24MAY05	399
48	Total Phosphorus (mg/L)	Bottom	0	377	26AUG96	28JAN03	377
49	Total Phosphorus (mg/L)	Surface	0	472	26AUG96	19DEC18	472
50	Total Suspended Solids (mg/L)	Bottom	0	832	26AUG96	19DEC18	832
51	Total Suspended Solids (mg/L)	Surface	0	834	26AUG96	19DEC18	834
52	Turbidity (NTU)	Bottom	0	382	26AUG96	28JAN03	382
53	Turbidity (NTU)	Surface	0	384	26AUG96	28JAN03	384
54	Volatile Suspended Solids (mg/L)	Bottom	0	827	26AUG96	19DEC18	827
55	Volatile Suspended Solids (mg/L)	Surface	0	829	26AUG96	19DEC18	829

Obs	parameter	DIS	level	numsamps	meanvalue	minvalue	maxvalue
1	CHLA	-2.4	Bottom	257	10.372918288	2.04	457
2	CHLA	-2.4	Surface	261	15.460312899	1.26	307
3	CHLA	6.6	Bottom	261	12.867509579	1.32	96.8
4	CHLA	6.6	Surface	262	14.440966921	1.53	153
5	CHLA	15.5	Bottom	262	14.324923664	0.5	248
6	CHLA	15.5	Surface	262	21.503447837	1.31	1042
7	CHLA	23.6	Bottom	260	12.077615385	0.5	104
8	CHLA	23.6	Surface	263	14.725494297	0.5	104
9	CHLA	30.7	Bottom	260	11.844442308	1	119
10	CHLA	30.7	Surface	262	12.369860051	1	126
11	COLOR	-2.4	Bottom	267	44.078651685	5	240
12	COLOR	-2.4	Surface	267	56.801498127	5	350
13	COLOR	6.6	Bottom	268	70.985074627	5	350
14	COLOR	6.6	Surface	268	92.15858209	5	450
15	COLOR	15.5	Bottom	269	140.21933086	20	500
16	COLOR	15.5	Surface	269	141.59851301	20	510
17	COLOR	23.6	Bottom	268	153.88059701	30	500
18	COLOR	23.6	Surface	269	152.77695167	40	500
19	COLOR	30.7	Bottom	267	152.67041199	30	500
20	COLOR	30.7	Surface	268	151.06343284	30	500
21	COND_Bottom	-2.4	Bottom	311	44241.488746	330	65956
22	COND_Bottom	6.6	Bottom	315	38530.231746	93	63094
23	COND_Bottom	8.4	Bottom	269	34596.640149	92	59669
24	COND_Bottom	10.5	Bottom	269	28608.187361	108	55246
25	COND_Bottom	12.7	Bottom	269	20901.692937	83	48415
26	COND_Bottom	12.8	Bottom	269	20082.242007	95	48626
27	COND_Bottom	15.5	Bottom	316	14681.991772	91	46682
28	COND_Bottom	17.5	Bottom	269	11619.622677	84	44263
29	COND_Bottom	20.1	Bottom	269	8839.9553903	78	41312
30	COND_Bottom	21.9	Bottom	269	5173.5702602	81	34705
31	COND_Bottom	23.6	Bottom	316	3841.0449367	79	31963
32	COND_Bottom	24.7	Bottom	269	2782.2457249	78	29848
33	COND_Bottom	25.9	Bottom	268	1871.8578358	107	24089
34	COND_Bottom	29.5	Bottom	269	968.49665428	86	16800
35	COND_Bottom	30.7	Bottom	316	817.01518987	83	14500
36	COND_Bottom	32.3	Bottom	267	649.8	114	10600
37	COND_Surface	-2.4	Surface	311	39073.536334	34.8	64316
38	COND_Surface	6.6	Surface	315	29554.305079	92	57797
39	COND_Surface	8.4	Surface	269	26423.415613	92	59235

Obs	parameter	DIS	level	numsamps	meanvalue	minvalue	maxvalue
40	COND_Surface	10.5	Surface	269	21178.368401	110	52465
41	COND_Surface	12.7	Surface	269	16035.532714	83	47245
42	COND_Surface	12.8	Surface	269	15458.769517	107	45728
43	COND_Surface	15.5	Surface	316	11803.272943	87	44300
44	COND_Surface	17.5	Surface	269	9568.0561338	81	42884
45	COND_Surface	20.1	Surface	269	7150.2791822	82	37948
46	COND_Surface	21.9	Surface	269	4458.2215613	81	34197
47	COND_Surface	23.6	Surface	315	3203.188254	84	29222
48	COND_Surface	24.7	Surface	269	2471.7271375	73	26642
49	COND_Surface	25.9	Surface	268	1756.8170149	38.26	23122
50	COND_Surface	29.5	Surface	269	880.65018587	42.1	14200
51	COND_Surface	30.7	Surface	316	767.58544304	86	12800
52	COND_Surface	32.3	Surface	266	629.67917293	0	8900
53	DO_Bottom	-2.4	Bottom	307	4.8022801303	0.06	10.47
54	DO_Bottom	6.6	Bottom	312	4.7220192308	0.05	11.09
55	DO_Bottom	8.4	Bottom	268	5.0530597015	0.08	10.45
56	DO_Bottom	10.5	Bottom	268	5.2356343284	0.04	11.01
57	DO_Bottom	12.7	Bottom	268	5.5627238806	0.17	10.7
58	DO_Bottom	12.8	Bottom	268	5.5342164179	0.14	11.57
59	DO_Bottom	15.5	Bottom	313	5.5069808307	0.18	11.6
60	DO_Bottom	17.5	Bottom	268	5.5984328358	0.31	11.54
61	DO_Bottom	20.1	Bottom	268	5.4450746269	0.18	14.06
62	DO_Bottom	21.9	Bottom	268	5.6582835821	0.21	14.25
63	DO_Bottom	23.6	Bottom	313	5.5321405751	0.17	15.35
64	DO_Bottom	24.7	Bottom	268	5.9072761194	0.23	15.89
65	DO_Bottom	25.9	Bottom	267	6.1271161049	0.19	19.24
66	DO_Bottom	29.5	Bottom	268	6.1785820896	0.17	14.83
67	DO_Bottom	30.7	Bottom	314	6.3698407643	0.15	14.13
68	DO_Bottom	32.3	Bottom	266	6.5784962406	0.13	15.1
69	DO_Surface	-2.4	Surface	307	6.9542019544	1.72	11.78
70	DO_Surface	6.6	Surface	312	6.6666987179	0.82	13.2
71	DO_Surface	8.4	Surface	268	6.6298880597	1.99	13.73
72	DO_Surface	10.5	Surface	268	6.6685820896	0.62	14.07
73	DO_Surface	12.7	Surface	268	6.5870522388	0.68	14.23
74	DO_Surface	12.8	Surface	268	6.5885820896	0.27	13.57
75	DO_Surface	15.5	Surface	313	6.4582188498	0.33	14.11
76	DO_Surface	17.5	Surface	268	6.4266791045	0.9	13.61
77	DO_Surface	20.1	Surface	268	6.2394776119	0.59	15.71
78	DO_Surface	21.9	Surface	268	6.1211940299	0.37	18.95

Obs	parameter	DIS	level	numsamps	meanvalue	minvalue	maxvalue
79	DO_Surface	23.6	Surface	312	6.2116987179	0.59	18.42
80	DO_Surface	24.7	Surface	268	6.3750373134	0.68	19.1
81	DO_Surface	25.9	Surface	267	6.482247191	0.49	17.98
82	DO_Surface	29.5	Surface	268	6.7293283582	0.62	16.66
83	DO_Surface	30.7	Surface	314	6.8071974522	0.37	16.85
84	DO_Surface	32.3	Surface	265	7.0334339623	0.62	16.27
85	OP	-2.4	Bottom	267	0.1345168539	0.01	0.631
86	OP	-2.4	Surface	267	0.1699625468	0.002	3.47
87	OP	6.6	Bottom	268	0.218130597	0.002	1.11
88	OP	6.6	Surface	267	0.281258427	0.002	1.3
89	OP	15.5	Bottom	269	0.5092453532	0.002	1.83
90	OP	15.5	Surface	269	0.5286208178	0.002	1.87
91	OP	23.6	Bottom	268	0.7027910448	0.002	2.1
92	OP	23.6	Surface	269	0.707535316	0.002	2.06
93	OP	30.7	Bottom	267	0.7700599251	0.002	2.08
94	OP	30.7	Surface	268	0.7664216418	0.002	2.14
95	PH_Bottom	-2.4	Bottom	307	7.7474918567	6.4	9.28
96	PH_Bottom	6.6	Bottom	311	7.6370096463	6.13	9.28
97	PH_Bottom	8.4	Bottom	265	7.5981132075	5.94	9.06
98	PH_Bottom	10.5	Bottom	265	7.5213207547	6.21	9.02
99	PH_Bottom	12.7	Bottom	265	7.437509434	6.23	8.82
100	PH_Bottom	12.8	Bottom	265	7.4123773585	6.12	8.83
101	PH_Bottom	15.5	Bottom	312	7.3418269231	6.14	8.98
102	PH_Bottom	17.5	Bottom	265	7.2935849057	5.97	8.77
103	PH_Bottom	20.1	Bottom	265	7.2264528302	6.03	8.82
104	PH_Bottom	21.9	Bottom	265	7.2392830189	6.03	8.73
105	PH_Bottom	23.6	Bottom	312	7.2048397436	5.97	9.04
106	PH_Bottom	24.7	Bottom	265	7.2666415094	6.03	8.92
107	PH_Bottom	25.9	Bottom	264	7.3140151515	5.99	8.95
108	PH_Bottom	29.5	Bottom	265	7.3206037736	4.35	8.57
109	PH_Bottom	30.7	Bottom	312	7.3727884615	5.96	8.86
110	PH_Bottom	32.3	Bottom	263	7.4159315589	5.94	8.9
111	PH_Surface	-2.4	Surface	307	7.7584364821	6.4	9.12
112	PH_Surface	6.6	Surface	311	7.6895176849	6.41	9.25
113	PH_Surface	8.4	Surface	265	7.656490566	6.45	9.22
114	PH_Surface	10.5	Surface	265	7.6129056604	6.38	9.18
115	PH_Surface	12.7	Surface	265	7.5432075472	6.28	9.09
116	PH_Surface	12.8	Surface	265	7.5133962264	6.19	8.96
117	PH_Surface	15.5	Surface	312	7.4699465812	6.05	9.18

Obs	parameter	DIS	level	numsamps	meanvalue	minvalue	maxvalue
118	PH_Surface	17.5	Surface	265	7.4222264151	6.16	9.02
119	PH_Surface	20.1	Surface	265	7.361509434	5.75	8.87
120	PH_Surface	21.9	Surface	265	7.3259622642	6.11	9.05
121	PH_Surface	23.6	Surface	311	7.3317363344	6.04	9.15
122	PH_Surface	24.7	Surface	265	7.3701509434	6.05	9.02
123	PH_Surface	25.9	Surface	264	7.3741287879	6.03	8.98
124	PH_Surface	29.5	Surface	265	7.4485283019	6.02	8.88
125	PH_Surface	30.7	Surface	312	7.4553525641	6.01	9
126	PH_Surface	32.3	Surface	262	7.5113358779	5.97	9.06
127	SAL_Bottom	-2.4	Bottom	310	28.64680965	2.96	44.75
128	SAL_Bottom	6.6	Bottom	314	24.613972698	0	42.59
129	SAL_Bottom	8.4	Bottom	269	21.95011084	0	40
130	SAL_Bottom	10.5	Bottom	269	17.893361944	0	36.68
131	SAL_Bottom	12.7	Bottom	269	12.842374914	0	31.65
132	SAL_Bottom	12.8	Bottom	269	12.352574896	0	31.82
133	SAL_Bottom	15.5	Bottom	316	8.8356308548	0	30.39
134	SAL_Bottom	17.5	Bottom	269	6.9373288738	0	28.63
135	SAL_Bottom	20.1	Bottom	269	5.212285053	0	26.51
136	SAL_Bottom	21.9	Bottom	269	2.9652228277	0	21.83
137	SAL_Bottom	23.6	Bottom	316	2.1470828515	0	19.92
138	SAL_Bottom	24.7	Bottom	269	1.5400176647	0	18.35
139	SAL_Bottom	25.9	Bottom	268	1.0045366353	0	14.55
140	SAL_Bottom	29.5	Bottom	269	0.4822431443	0	9.6738165419
141	SAL_Bottom	30.7	Bottom	316	0.3726942626	0	8.2111094919
142	SAL_Bottom	32.3	Bottom	267	0.3004030002	0	5.7932776605
143	SAL_Surface	-2.4	Surface	310	25.080239092	0.02	43.54
144	SAL_Surface	6.6	Surface	314	18.578783914	0	38.65
145	SAL_Surface	8.4	Surface	269	16.561106987	0	39.67
146	SAL_Surface	10.5	Surface	269	13.048905132	0	34.62
147	SAL_Surface	12.7	Surface	269	9.7294687862	0	30.81
148	SAL_Surface	12.8	Surface	269	9.448754353	0	29.75
149	SAL_Surface	15.5	Surface	316	7.0326527157	0	28.66
150	SAL_Surface	17.5	Surface	269	5.6644704138	0	27.67
151	SAL_Surface	20.1	Surface	269	4.1575960487	0	24.1
152	SAL_Surface	21.9	Surface	269	2.5301406509	0	21.45
153	SAL_Surface	23.6	Surface	315	1.7692702747	0	18.04
154	SAL_Surface	24.7	Surface	269	1.3563526002	0	16.41
155	SAL_Surface	25.9	Surface	268	0.9433653529	0	13.799185347
156	SAL_Surface	29.5	Surface	269	0.429888055	0	8.0222370066

Obs	parameter	DIS	level	numsamps	meanvalue	minvalue	maxvalue
157	SAL_Surface	30.7	Surface	316	0.3436874997	0	7.1469985851
158	SAL_Surface	32.3	Surface	266	0.2902148515	0	4.7667320106
159	SI	-2.4	Bottom	267	2.5732734082	0.044	12.1
160	SI	-2.4	Surface	267	2.7540037453	0.01	11.8
161	SI	6.6	Bottom	268	3.2381828358	0.086	11.9
162	SI	6.6	Surface	268	3.5769552239	0.01	12.8
163	SI	15.5	Bottom	268	5.1595485075	0.1	15
164	SI	15.5	Surface	269	5.3754498141	0.1	15.3
165	SI	23.6	Bottom	268	6.1156828358	0.05	15.2
166	SI	23.6	Surface	269	6.1608513011	0.05	15.5
167	SI	30.7	Bottom	267	6.0894194757	0.334	15.9
168	SI	30.7	Surface	268	6.107761194	0.21	14.9
169	TEMP_Bottom	-2.4	Bottom	311	24.531993569	12.84	31.38
170	TEMP_Bottom	6.6	Bottom	315	24.743428571	13	31.5
171	TEMP_Bottom	8.4	Bottom	269	24.794832714	12.4	32
172	TEMP_Bottom	10.5	Bottom	269	24.830966543	12.73	32.1
173	TEMP_Bottom	12.7	Bottom	269	24.746022305	12.36	31.8
174	TEMP_Bottom	12.8	Bottom	269	24.743717472	12.15	31.5
175	TEMP_Bottom	15.5	Bottom	316	24.713227848	12.13	31.62
176	TEMP_Bottom	17.5	Bottom	269	24.788550186	12.93	31.68
177	TEMP_Bottom	20.1	Bottom	269	24.808066914	12.97	31.79
178	TEMP_Bottom	21.9	Bottom	269	24.852527881	13.42	32.44
179	TEMP_Bottom	23.6	Bottom	316	24.669335443	12.6	32.46
180	TEMP_Bottom	24.7	Bottom	269	24.828736059	12.88	32.28
181	TEMP_Bottom	25.9	Bottom	268	24.920238806	13.07	32.28
182	TEMP_Bottom	29.5	Bottom	269	24.677026022	11.88	31.89
183	TEMP_Bottom	30.7	Bottom	316	24.706867089	13.07	36.68
184	TEMP_Bottom	32.3	Bottom	267	24.869588015	11.77	32.51
185	TEMP_Surface	-2.4	Surface	311	24.519614148	12.4	31.78
186	TEMP_Surface	6.6	Surface	315	24.715206349	12.35	33.2
187	TEMP_Surface	8.4	Surface	269	24.868215613	13.39	32.97
188	TEMP_Surface	10.5	Surface	269	24.947769517	12.02	33.08
189	TEMP_Surface	12.7	Surface	269	25.0133829	12.78	32.72
190	TEMP_Surface	12.8	Surface	269	25.016133829	13.1	32.4
191	TEMP_Surface	15.5	Surface	316	25.172107068	13.87	33.35
192	TEMP_Surface	17.5	Surface	269	25.264498141	13.74	32.72
193	TEMP_Surface	20.1	Surface	269	25.288921933	13.9	34.02
194	TEMP_Surface	21.9	Surface	269	25.197918216	13.86	33.15
195	TEMP_Surface	23.6	Surface	315	25.218507937	13.75	33.66

Obs	parameter	DIS	level	numsamps	meanvalue	minvalue	maxvalue
196	TEMP_Surface	24.7	Surface	269	25.293568773	14.14	34.7
197	TEMP_Surface	25.9	Surface	268	25.278171642	13.86	34.13
198	TEMP_Surface	29.5	Surface	269	25.21669145	13.5	33.67
199	TEMP_Surface	30.7	Surface	316	25.091044304	13.35	34.32
200	TEMP_Surface	32.3	Surface	266	25.169022556	12.59	33.34
201	TN	-2.4	Bottom	263	0.6125564259	0.092	5.508
202	TN	-2.4	Surface	264	0.7121405303	0.09	3.915
203	TN	6.6	Bottom	265	0.8032018868	0.181	2.679
204	TN	6.6	Surface	264	0.8862454545	0.155	2.623
205	TN	15.5	Bottom	265	1.215769434	0.36	2.631
206	TN	15.5	Surface	266	1.2612522556	0.366	7.42
207	TN	23.6	Bottom	264	1.3879242424	0.238	2.92
208	TN	23.6	Surface	266	1.3892218045	0.336	5.02
209	TN	30.7	Bottom	264	1.4834924242	0.355	4.07
210	TN	30.7	Surface	265	1.4685509434	0.346	5.01
211	TP	-2.4	Bottom	75	0.1638933333	0.037	0.39
212	TP	-2.4	Surface	74	0.1867027027	0.032	0.701
213	TP	6.6	Bottom	76	0.3016052632	0.06	0.84
214	TP	6.6	Surface	75	0.3283333333	0.079	1.04
215	TP	15.5	Bottom	76	0.5533815789	0.216	1.17
216	TP	15.5	Surface	76	0.5606052632	0.244	1.3
217	TP	23.6	Bottom	75	0.7038933333	0.421	1.23
218	TP	23.6	Surface	76	0.6941184211	0.418	1.07
219	TP	30.7	Bottom	75	0.7599733333	0.353	1.1
220	TP	30.7	Surface	170	0.7740588235	0.348	1.47
221	TSS	-2.4	Bottom	167	17.675748503	0.57	110
222	TSS	-2.4	Surface	167	13.190718563	0.57	98
223	TSS	6.6	Bottom	166	23.014096386	0.57	171
224	TSS	6.6	Surface	167	13.799820359	0.57	74
225	TSS	15.5	Bottom	167	13.692095808	1	57
226	TSS	15.5	Surface	167	9.2581437126	0.57	100
227	TSS	23.6	Bottom	166	7.76	0.57	35
228	TSS	23.6	Surface	167	5.4706407186	0.57	29
229	TSS	30.7	Bottom	165	6.3985454545	0.57	38.7
230	TSS	30.7	Surface	166	5.4962048193	0.57	30
231	TURB	-2.4	Bottom	76	3.7586842105	0.13	84
232	TURB	-2.4	Surface	76	2.8859210526	0.14	67
233	TURB	6.6	Bottom	77	5.1842857143	0.29	15
234	TURB	6.6	Surface	77	3.1479220779	0.28	18

Obs	parameter	DIS	level	numsamps	meanvalue	minvalue	maxvalue
235	TURB	15.5	Bottom	77	4.4876623377	0.28	20
236	TURB	15.5	Surface	77	3.7850649351	0.32	24
237	TURB	23.6	Bottom	76	3.7810526316	0.35	17
238	TURB	23.6	Surface	77	3.0983116883	0.29	14
239	TURB	30.7	Bottom	76	3.535	0.38	15
240	TURB	30.7	Surface	77	3.2937662338	0.45	18

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	77	**Sum Weights**	77
Mean	107.266234	**Sum Observations**	8259.5
Std Deviation	16.905306	**Variance**	285.789371
Skewness	1.56581239	**Kurtosis**	10.8824044
Uncorrected SS	907685.45	**Corrected SS**	21719.9922
Coeff Variation	15.7601376	**Std Error Mean**	1.92653842

Basic Statistical Measures			
Location		**Variability**	
Mean	107.2662	**Std Deviation**	16.90531
Median	108.0000	**Variance**	285.78937
Mode	108.0000	**Range**	136.00000
		Interquartile Range	14.00000

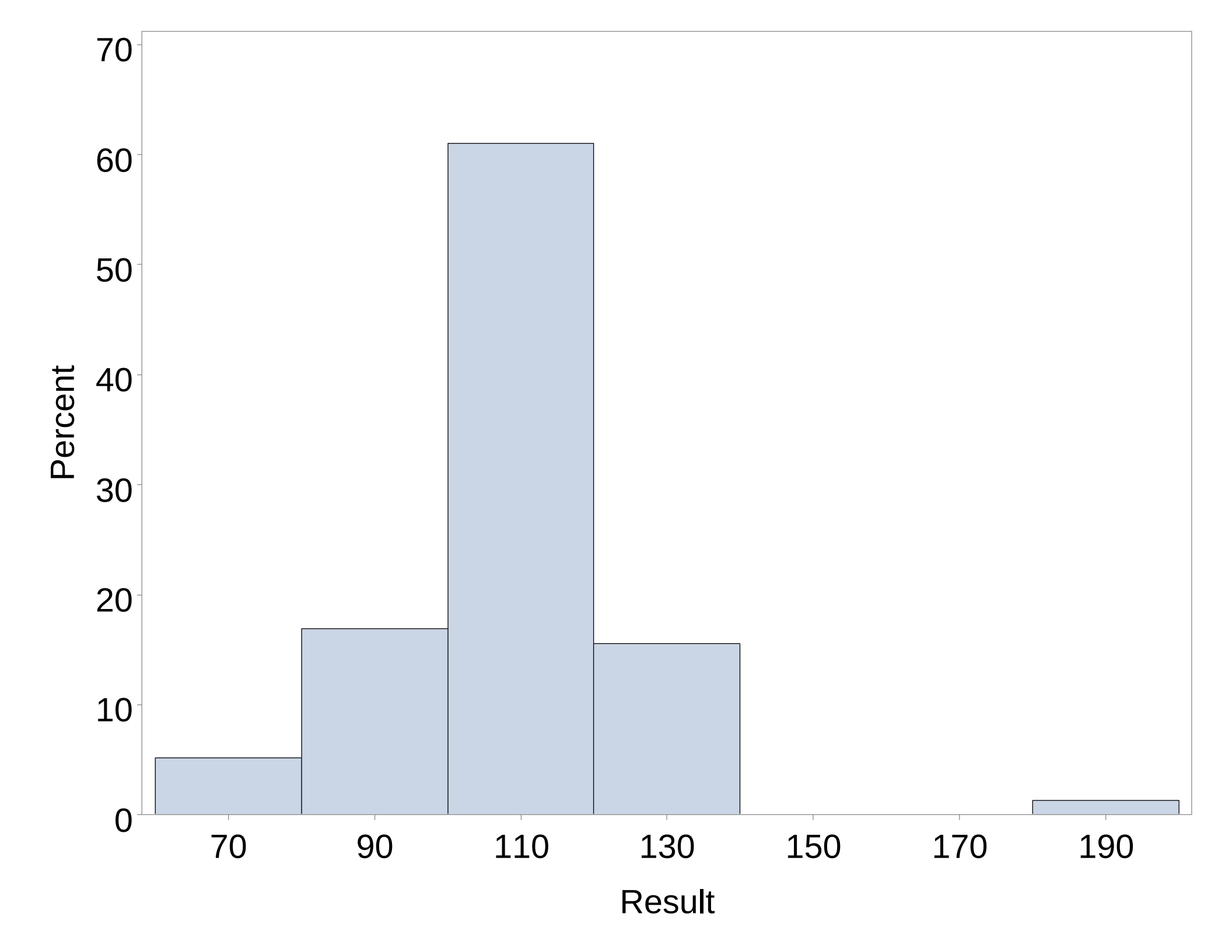
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.67822	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	199
99%	199
95%	125
90%	122
75% Q3	115
50% Median	108
25% Q1	101
10%	85
5%	78
1%	63
0% Min	63

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
63.0	19	125	46
74.0	21	125	55
75.2	61	125	57
78.0	17	127	54
82.0	20	199	75


70
60
50
40
30
20
10
0
Percent
70
90
110
130
150
170
190
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	77	**Sum Weights**	77
Mean	101.498701	**Sum Observations**	7815.4
Std Deviation	17.4502111	**Variance**	304.509867
Skewness	-1.087647	**Kurtosis**	0.91274697
Uncorrected SS	816395.7	**Corrected SS**	23142.7499
Coeff Variation	17.1925462	**Std Error Mean**	1.98863611

Basic Statistical Measures			
Location		**Variability**	
Mean	101.4987	**Std Deviation**	17.45021
Median	107.0000	**Variance**	304.50987
Mode	107.0000	**Range**	76.00000
		Interquartile Range	20.00000

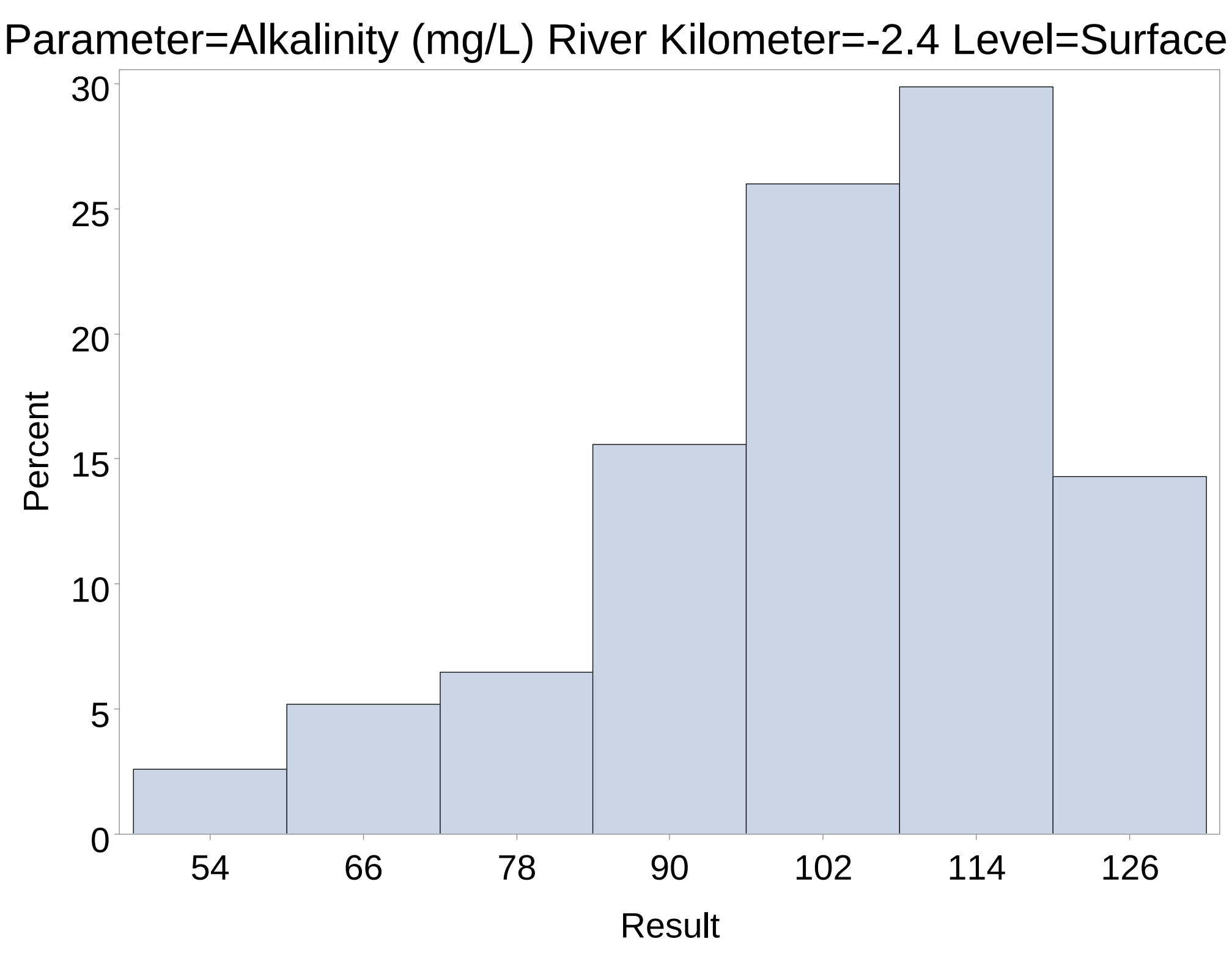
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.03935	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	125.0
99%	125.0
95%	124.0
90%	121.0
75% Q3	114.0
50% Median	107.0
25% Q1	94.0
10%	76.0
5%	63.6
1%	49.0
0% Min	49.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
49.0	96	121	130
50.3	138	124	131
63.4	136	124	132
63.6	153	125	123
65.0	97	125	134


Parameter=Alkalinity (mg/L) River Kilometer=-2.4 Level=Surface
Percent
30
25
20
15
10
5
0
54
66
78
90
102
114
126
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	78	**Sum Weights**	78
Mean	99.0974359	**Sum Observations**	7729.6
Std Deviation	17.9507477	**Variance**	322.229344
Skewness	-2.2513732	**Kurtosis**	6.97241641
Uncorrected SS	790795.2	**Corrected SS**	24811.6595
Coeff Variation	18.1142404	**Std Error Mean**	2.03252194

Basic Statistical Measures			
Location		**Variability**	
Mean	99.0974	**Std Deviation**	17.95075
Median	103.0000	**Variance**	322.22934
Mode	103.0000	**Range**	100.00000
		Interquartile Range	16.90000

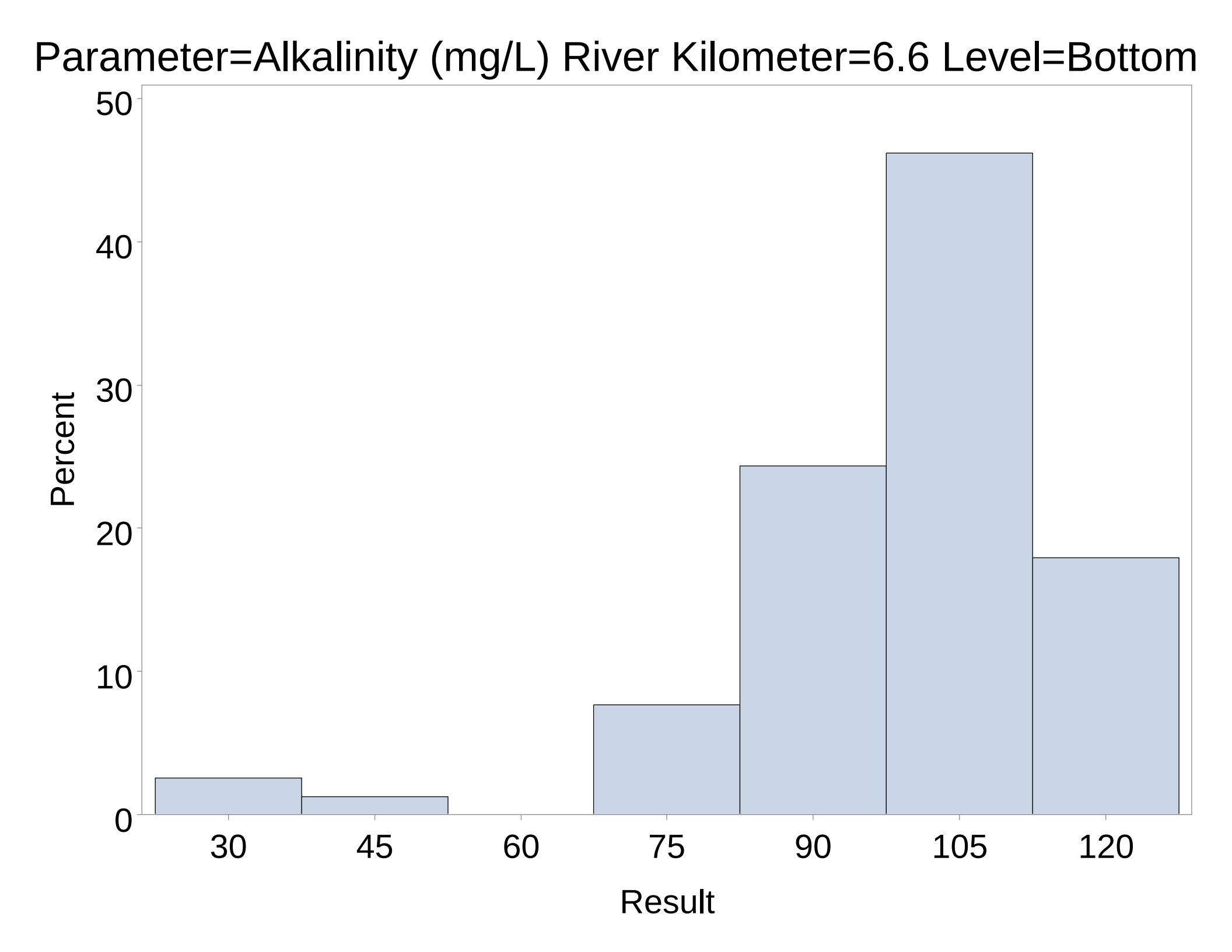
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.7559	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	123.0
99%	123.0
95%	119.0
90%	116.0
75% Q3	110.0
50% Median	103.0
25% Q1	93.1
10%	79.5
5%	70.0
1%	23.0
0% Min	23.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
23	173	118	199
25	171	119	209
48	174	120	208
70	175	122	200
72	180	123	212


Parameter=Alkalinity (mg/L) River Kilometer=6.6 Level=Bottom
Percent
50
40
30
20
10
0
30
45
60
75
90
105
120
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	78	**Sum Weights**	78
Mean	88.5782051	**Sum Observations**	6909.1
Std Deviation	25.5886574	**Variance**	654.779389
Skewness	-1.1553763	**Kurtosis**	0.77664594
Uncorrected SS	662413.69	**Corrected SS**	50418.0129
Coeff Variation	28.8882095	**Std Error Mean**	2.89734491

Basic Statistical Measures			
Location		**Variability**	
Mean	88.5782	**Std Deviation**	25.58866
Median	94.2000	**Variance**	654.77939
Mode	106.0000	**Range**	105.00000
		Interquartile Range	32.00000

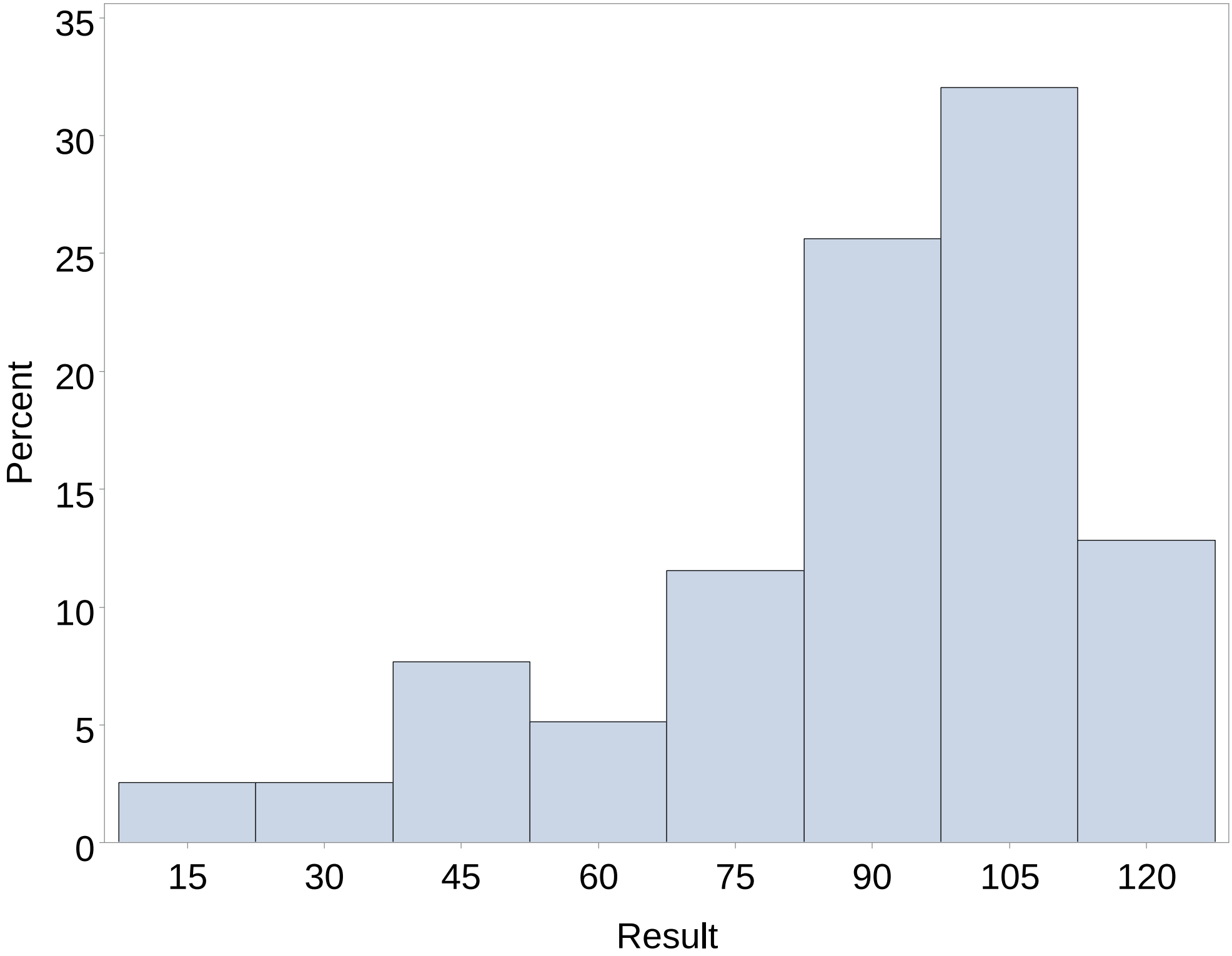
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.5722	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	122.0
99%	122.0
95%	118.0
90%	114.0
75% Q3	107.0
50% Median	94.2
25% Q1	75.0
10%	45.6
5%	25.0
1%	17.0
0% Min	17.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17	252	117	288
18	248	118	277
23	251	119	287
25	249	122	278
42	309	122	290


35
30
25
20
15
10
5
0
Percent
15
30
45
60
75
90
105
120
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	78	**Sum Weights**	78
Mean	73.3474359	**Sum Observations**	5721.1
Std Deviation	25.1723293	**Variance**	633.646162
Skewness	-0.5044872	**Kurtosis**	-0.711107
Uncorrected SS	468418.77	**Corrected SS**	48790.7545
Coeff Variation	34.3193037	**Std Error Mean**	2.85020504

Basic Statistical Measures			
Location		**Variability**	
Mean	73.3474	**Std Deviation**	25.17233
Median	77.5000	**Variance**	633.64616
Mode	101.0000	**Range**	103.00000
		Interquartile Range	43.00000

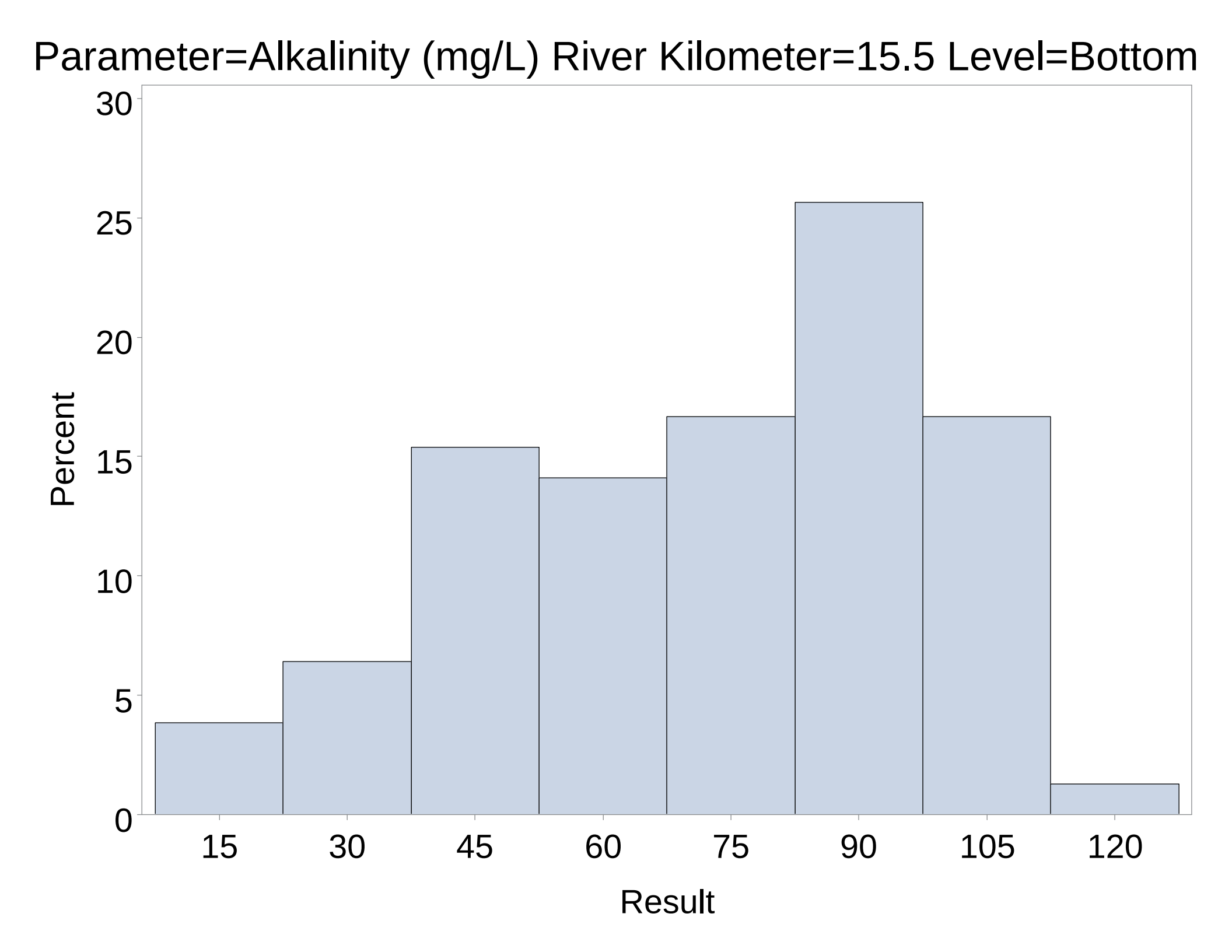
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.73409	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	117.0
99%	117.0
95%	106.0
90%	101.0
75% Q3	95.0
50% Median	77.5
25% Q1	52.0
10%	36.8
5%	25.0
1%	14.0
0% Min	14.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
14.0	330	103	343
16.0	326	106	364
22.0	327	107	368
25.0	329	110	355
34.6	381	117	356


Parameter=Alkalinity (mg/L) River Kilometer=15.5 Level=Bottom
Percent
30
25
20
15
10
5
0
15
30
45
60
75
90
105
120
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	78	**Sum Weights**	78
Mean	71.3564103	**Sum Observations**	5565.8
Std Deviation	24.2449009	**Variance**	587.815218
Skewness	-0.3558479	**Kurtosis**	-0.6615814
Uncorrected SS	442417.28	**Corrected SS**	45261.7718
Coeff Variation	33.9771869	**Std Error Mean**	2.74519444

Basic Statistical Measures			
Location		**Variability**	
Mean	71.3564	**Std Deviation**	24.24490
Median	74.1000	**Variance**	587.81522
Mode	100.0000	**Range**	103.00000
		Interquartile Range	38.30000

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

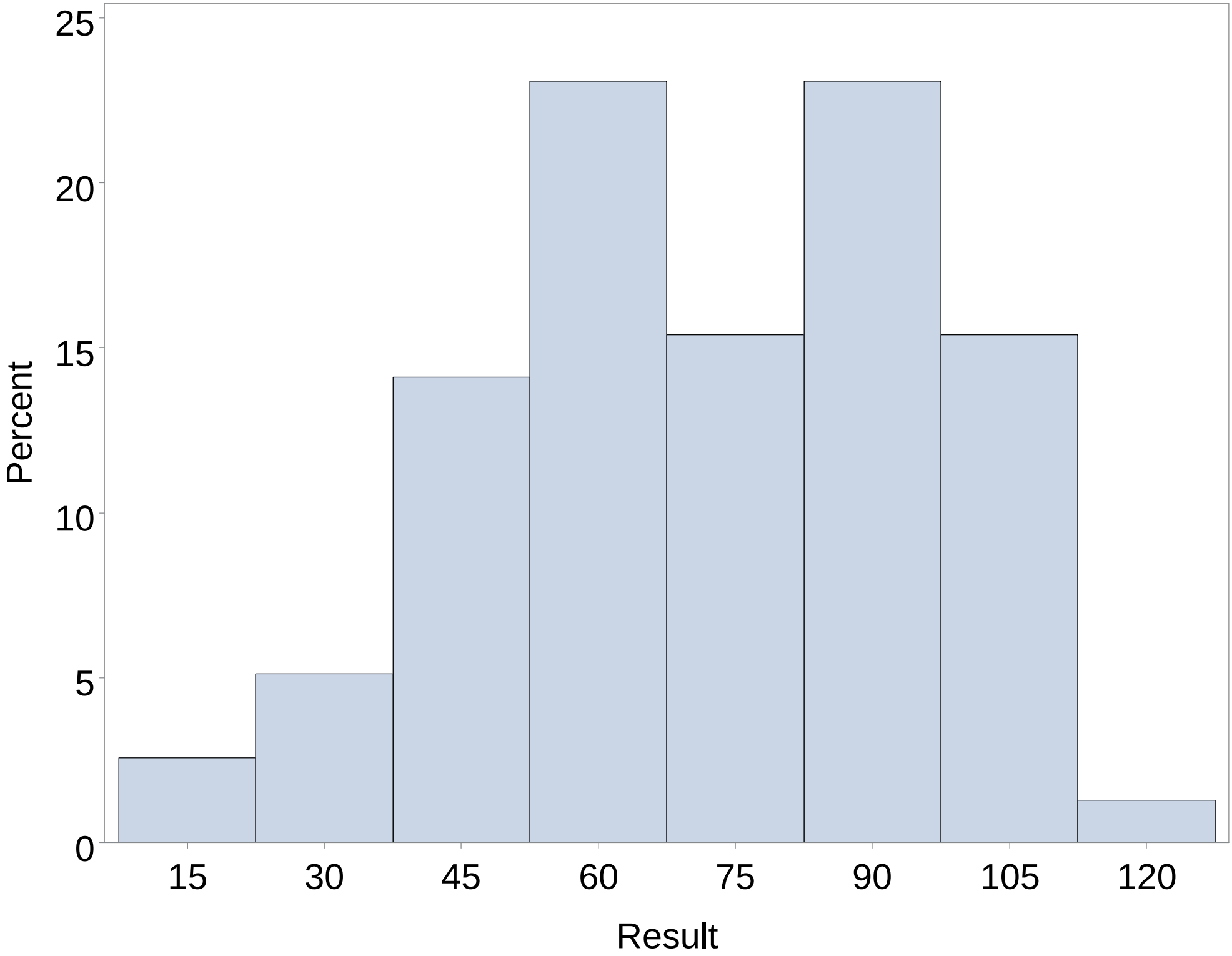
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.99321	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	117.0
99%	117.0
95%	102.0
90%	101.0
75% Q3	92.3
50% Median	74.1
25% Q1	54.0
10%	40.0
5%	24.0
1%	14.0
0% Min	14.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
14	408	102	442
15	404	102	444
23	405	107	446
24	407	109	433
36	414	117	434


25
20
15
10
5
0
Percent
15
30
45
60
75
90
105
120
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	77	**Sum Weights**	77
Mean	62.5402597	**Sum Observations**	4815.6
Std Deviation	20.4243422	**Variance**	417.153753
Skewness	-0.2242754	**Kurtosis**	-0.745419
Uncorrected SS	332872.56	**Corrected SS**	31703.6852
Coeff Variation	32.6579107	**Std Error Mean**	2.32756981

Basic Statistical Measures			
Location		**Variability**	
Mean	62.54026	**Std Deviation**	20.42434
Median	63.00000	**Variance**	417.15375
Mode	82.00000	**Range**	87.00000
		Interquartile Range	35.00000

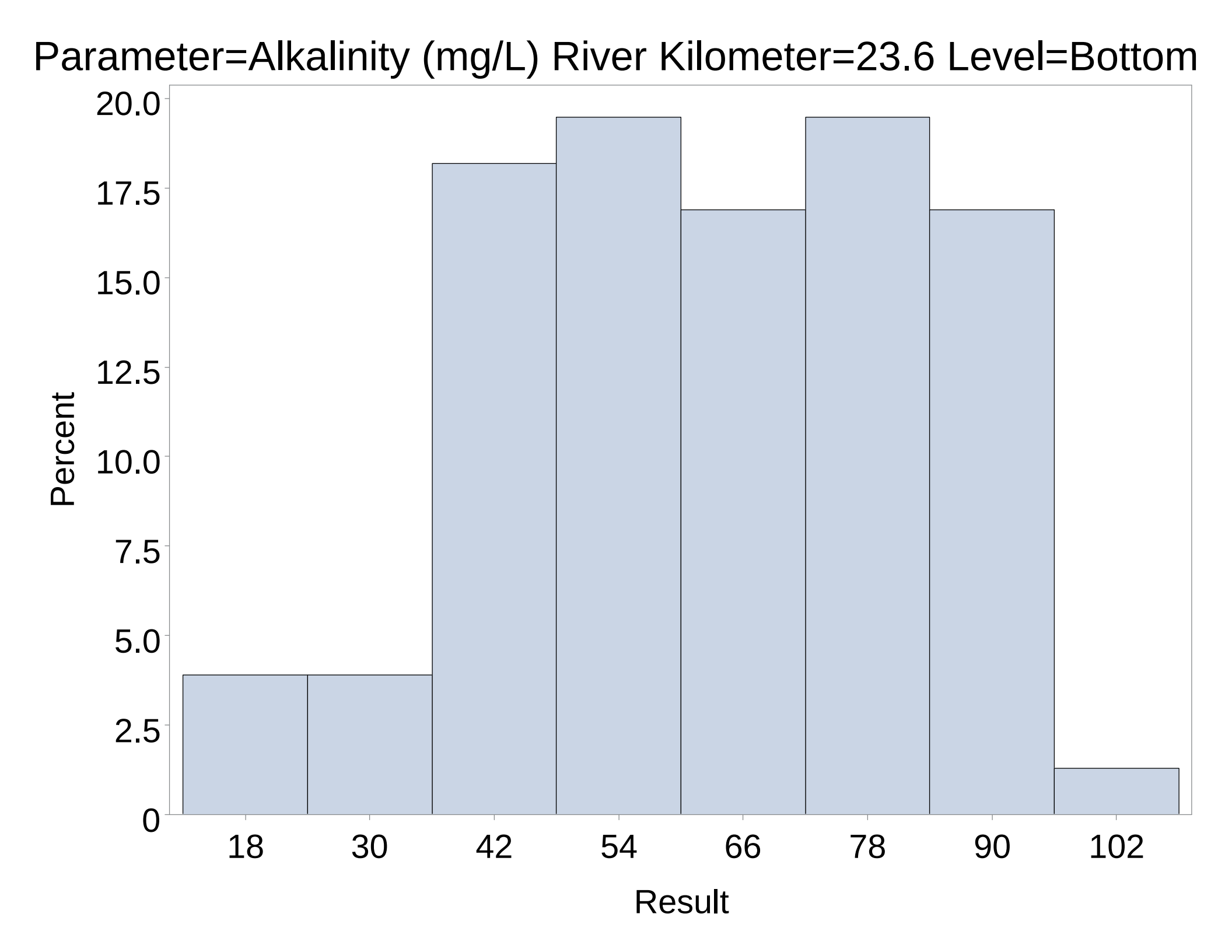
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.86934	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	102.0
99%	102.0
95%	90.6
90%	89.0
75% Q3	82.0
50% Median	63.0
25% Q1	47.0
10%	36.9
5%	26.0
1%	15.0
0% Min	15.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
15	485	90.0	473
15	481	90.6	530
22	482	91.0	510
26	484	92.0	507
34	536	102.0	511


Parameter=Alkalinity (mg/L) River Kilometer=23.6 Level=Bottom
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
18
30
42
54
66
78
90
102
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	78	**Sum Weights**	78
Mean	62.6923077	**Sum Observations**	4890
Std Deviation	20.1048794	**Variance**	404.206174
Skewness	-0.2982804	**Kurtosis**	-0.7239591
Uncorrected SS	337689.26	**Corrected SS**	31123.8754
Coeff Variation	32.0691327	**Std Error Mean**	2.27642932

Basic Statistical Measures			
Location		**Variability**	
Mean	62.69231	**Std Deviation**	20.10488
Median	62.50000	**Variance**	404.20617
Mode	55.00000	**Range**	83.00000
		Interquartile Range	35.00000

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

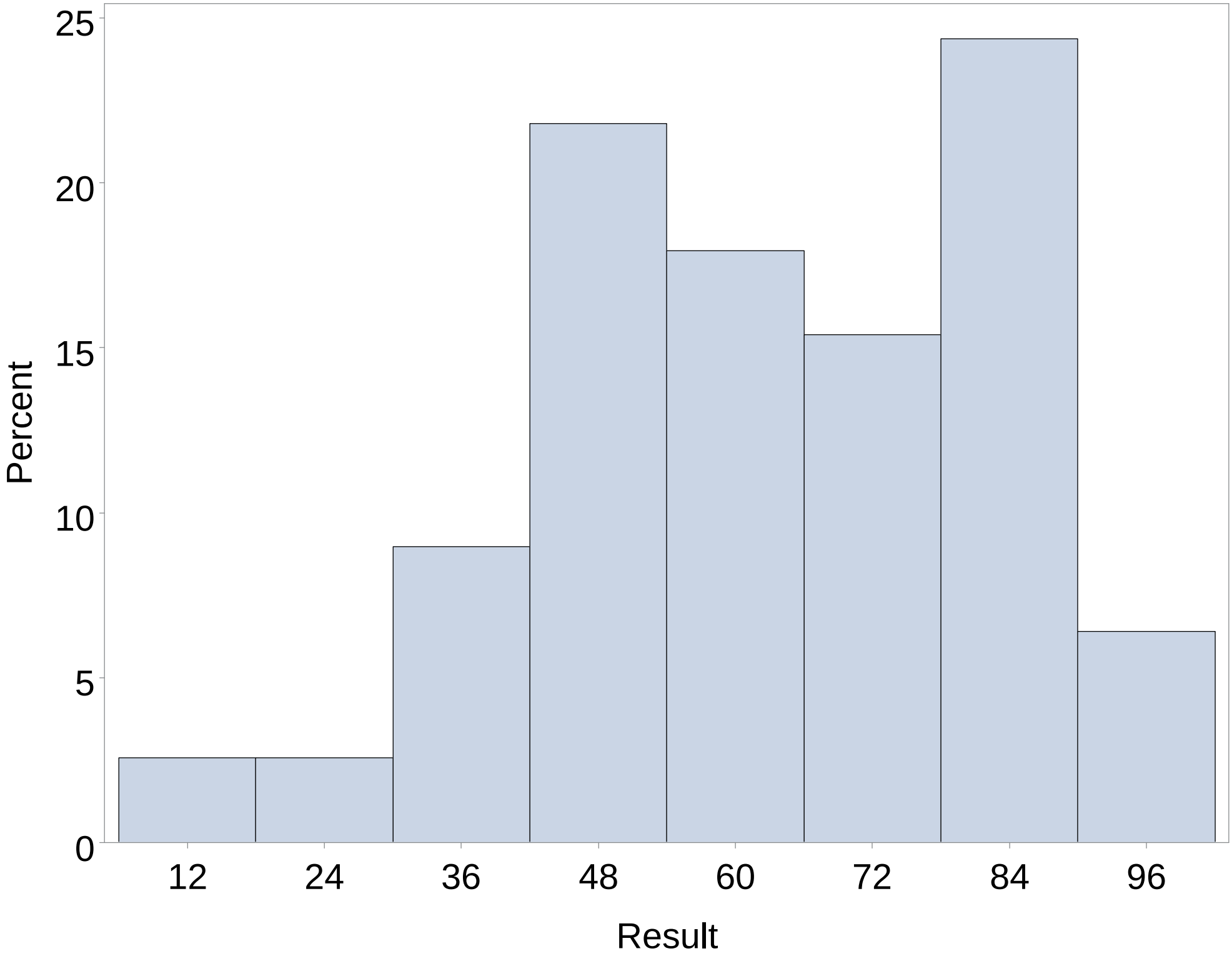
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.53976	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	98.0
99%	98.0
95%	90.0
90%	88.0
75% Q3	81.0
50% Median	62.5
25% Q1	46.0
10%	37.6
5%	26.0
1%	15.0
0% Min	15.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
15.0	563	90.0	550
15.0	559	90.0	588
22.0	560	92.0	585
26.0	562	92.1	608
33.6	614	98.0	589


25
20
15
10
5
0
Percent
12
24
36
48
60
72
84
96
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	77	**Sum Weights**	77
Mean	64.1675325	**Sum Observations**	4940.9
Std Deviation	21.533355	**Variance**	463.685379
Skewness	-0.2263853	**Kurtosis**	-0.8263192
Uncorrected SS	352285.45	**Corrected SS**	35240.0888
Coeff Variation	33.5580226	**Std Error Mean**	2.45395355

Basic Statistical Measures			
Location		**Variability**	
Mean	64.16753	**Std Deviation**	21.53336
Median	65.00000	**Variance**	463.68538
Mode	41.20000	**Range**	87.00000
		Interquartile Range	34.00000

Note: The mode displayed is the smallest of 11 modes with a count of 2.

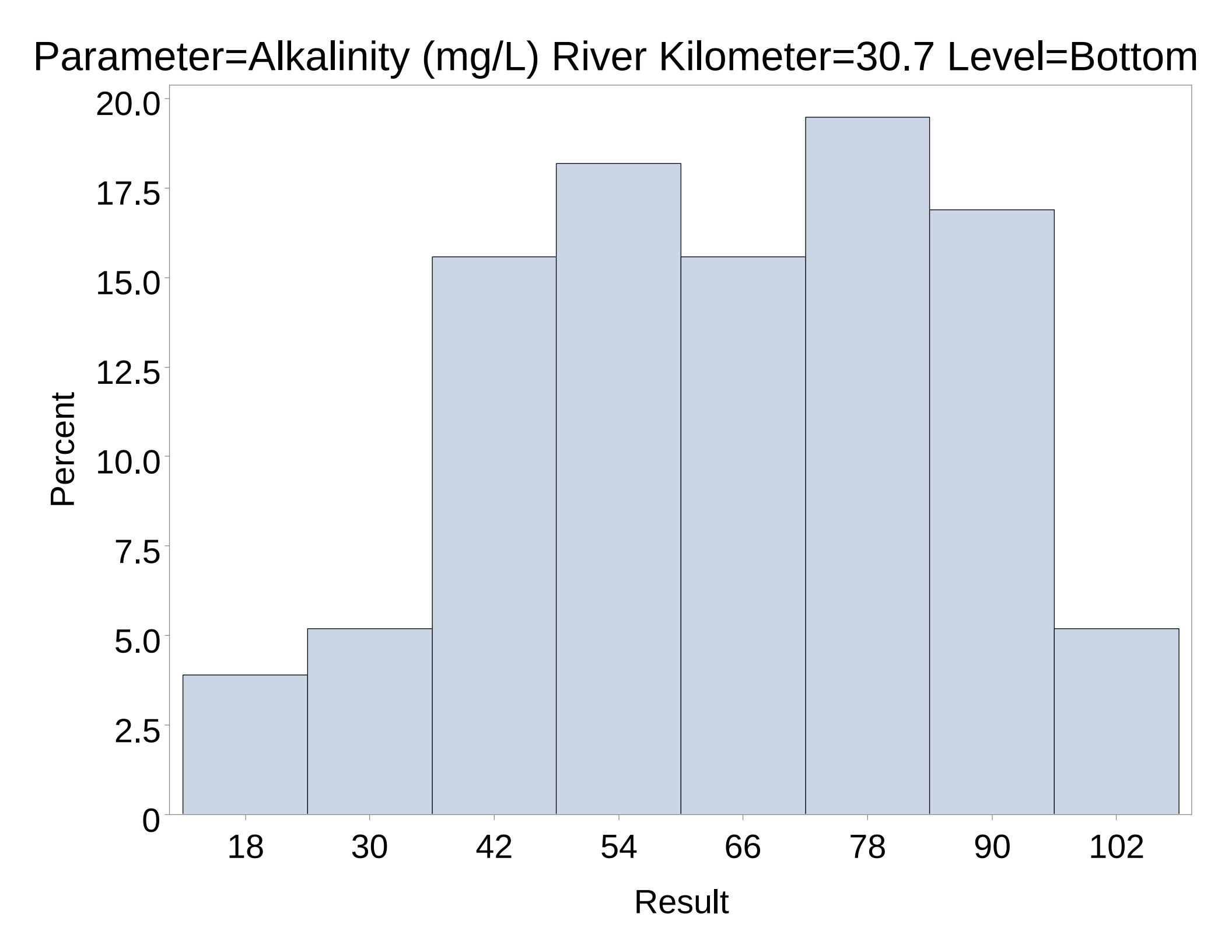
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.14863	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	102
99%	102
95%	96
90%	93
75% Q3	82
50% Median	65
25% Q1	48
10%	36
5%	28
1%	15
0% Min	15

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
15.0	641	95.6	672
17.0	637	96.0	628
22.0	638	96.6	685
28.0	640	98.0	654
33.2	680	102.0	663


Parameter=Alkalinity (mg/L) River Kilometer=30.7 Level=Bottom
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
18
30
42
54
66
78
90
102
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	173	**Sum Weights**	173
Mean	66.1149942	**Sum Observations**	11437.894
Std Deviation	21.4779886	**Variance**	461.303995
Skewness	-0.2145471	**Kurtosis**	-0.5174433
Uncorrected SS	835560.583	**Corrected SS**	79344.2871
Coeff Variation	32.4858058	**Std Error Mean**	1.63294124

Basic Statistical Measures			
Location		**Variability**	
Mean	66.11499	**Std Deviation**	21.47799
Median	66.50000	**Variance**	461.30400
Mode	51.00000	**Range**	112.40600
		Interquartile Range	33.00000

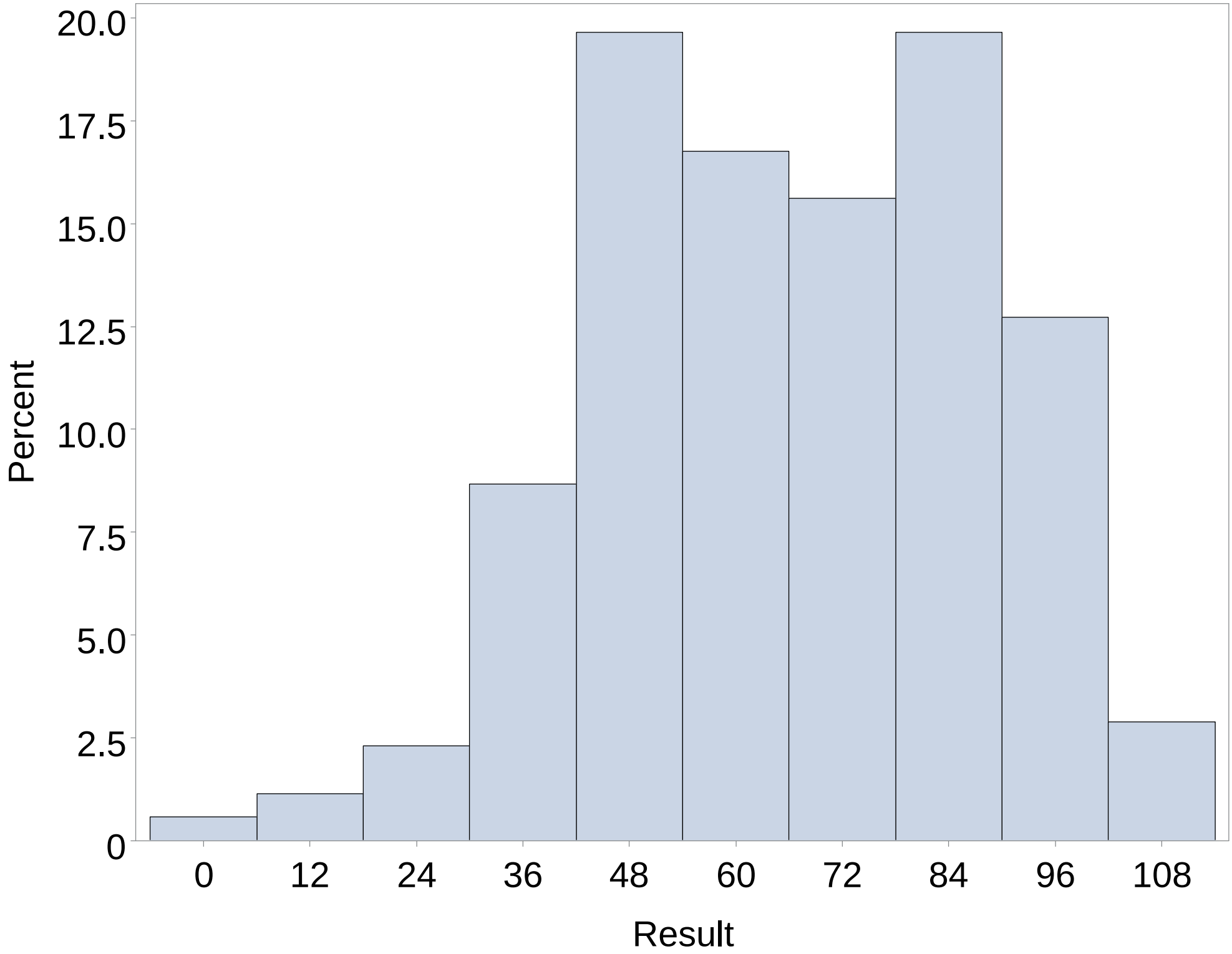
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	40.48829	**Pr > |t|**	<.0001
Sign	**M**	86.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7525.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	113.000
99%	106.000
95%	96.500
90%	93.000
75% Q3	83.000
50% Median	66.500
25% Q1	50.000
10%	39.600
5%	32.400
1%	15.000
0% Min	0.594

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Alkalinity (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.594	811	102	740
15.000	718	105	812
17.000	714	105	852
22.000	715	106	792
28.000	717	113	781


20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
Percent
0
12
24
36
48
60
72
84
96
108
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	257	**Sum Weights**	257
Mean	10.3729183	**Sum Observations**	2665.84
Std Deviation	28.7535472	**Variance**	826.766475
Skewness	14.7758199	**Kurtosis**	229.775065
Uncorrected SS	239304.758	**Corrected SS**	211652.218
Coeff Variation	277.198242	**Std Error Mean**	1.79359699

Basic Statistical Measures			
Location		**Variability**	
Mean	10.37292	**Std Deviation**	28.75355
Median	6.87000	**Variance**	826.76647
Mode	3.46000	**Range**	454.96000
		Interquartile Range	6.06000

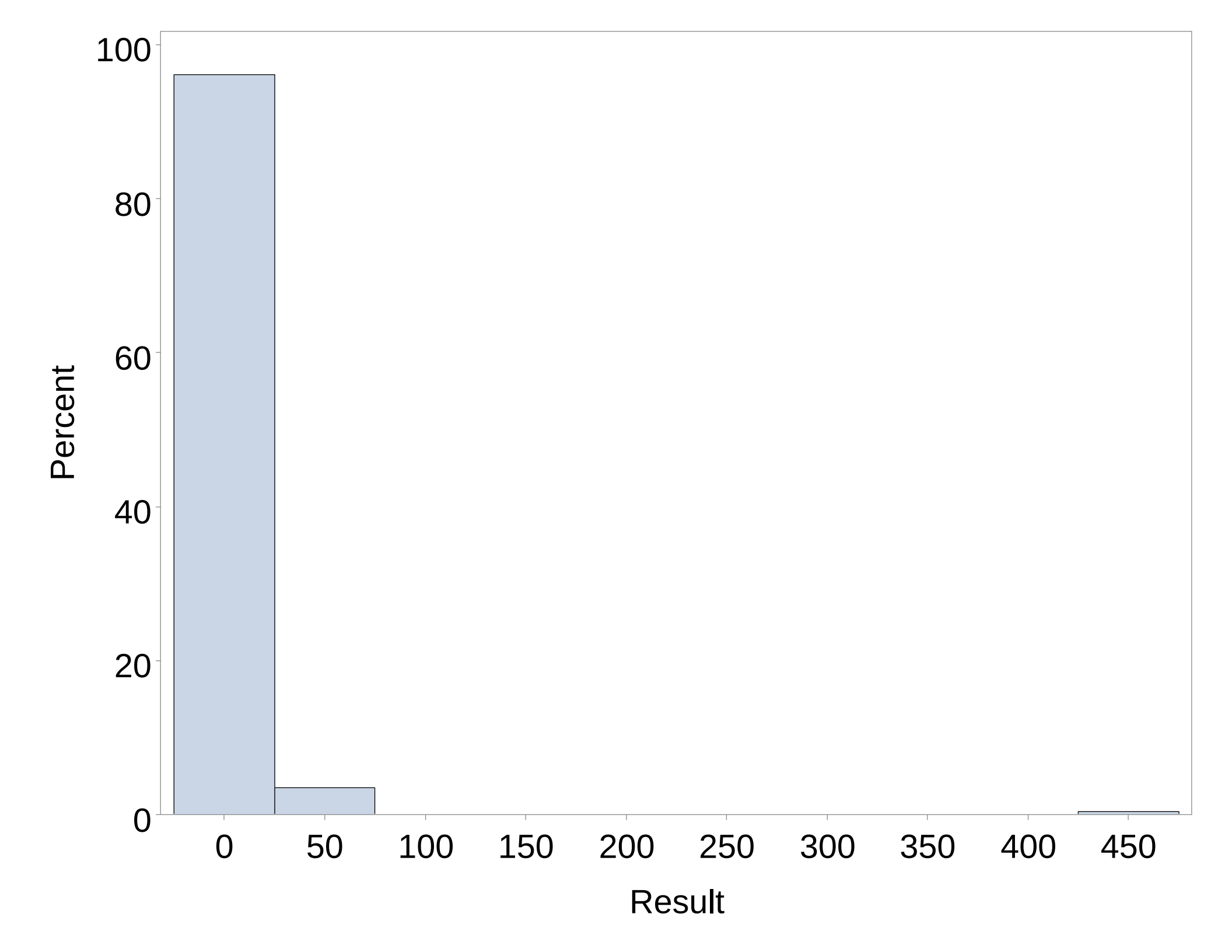
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	5.783305	**Pr > |t|**	<.0001
Sign	**M**	128.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	16576.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	457.00
99%	41.90
95%	21.50
90%	16.20
75% Q3	10.20
50% Median	6.87
25% Q1	4.14
10%	3.46
5%	3.46
1%	2.27
0% Min	2.04

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.04	916	37.2	1016
2.04	914	38.8	1017
2.27	915	41.9	1080
2.42	872	44.6	911
2.72	922	457.0	946


100
80
60
40
20
0
Percent
0
50
100
150
200
250
300
350
400
450
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=-2.4 Level=Surface

Moments			
N	261	**Sum Weights**	261
Mean	15.4603129	**Sum Observations**	4035.14167
Std Deviation	28.4647475	**Variance**	810.241853
Skewness	6.22402647	**Kurtosis**	50.4865894
Uncorrected SS	273047.434	**Corrected SS**	210662.882
Coeff Variation	184.114951	**Std Error Mean**	1.76192364

Basic Statistical Measures			
Location		**Variability**	
Mean	15.46031	**Std Deviation**	28.46475
Median	7.30000	**Variance**	810.24185
Mode	3.46000	**Range**	305.74000
		Interquartile Range	10.78000

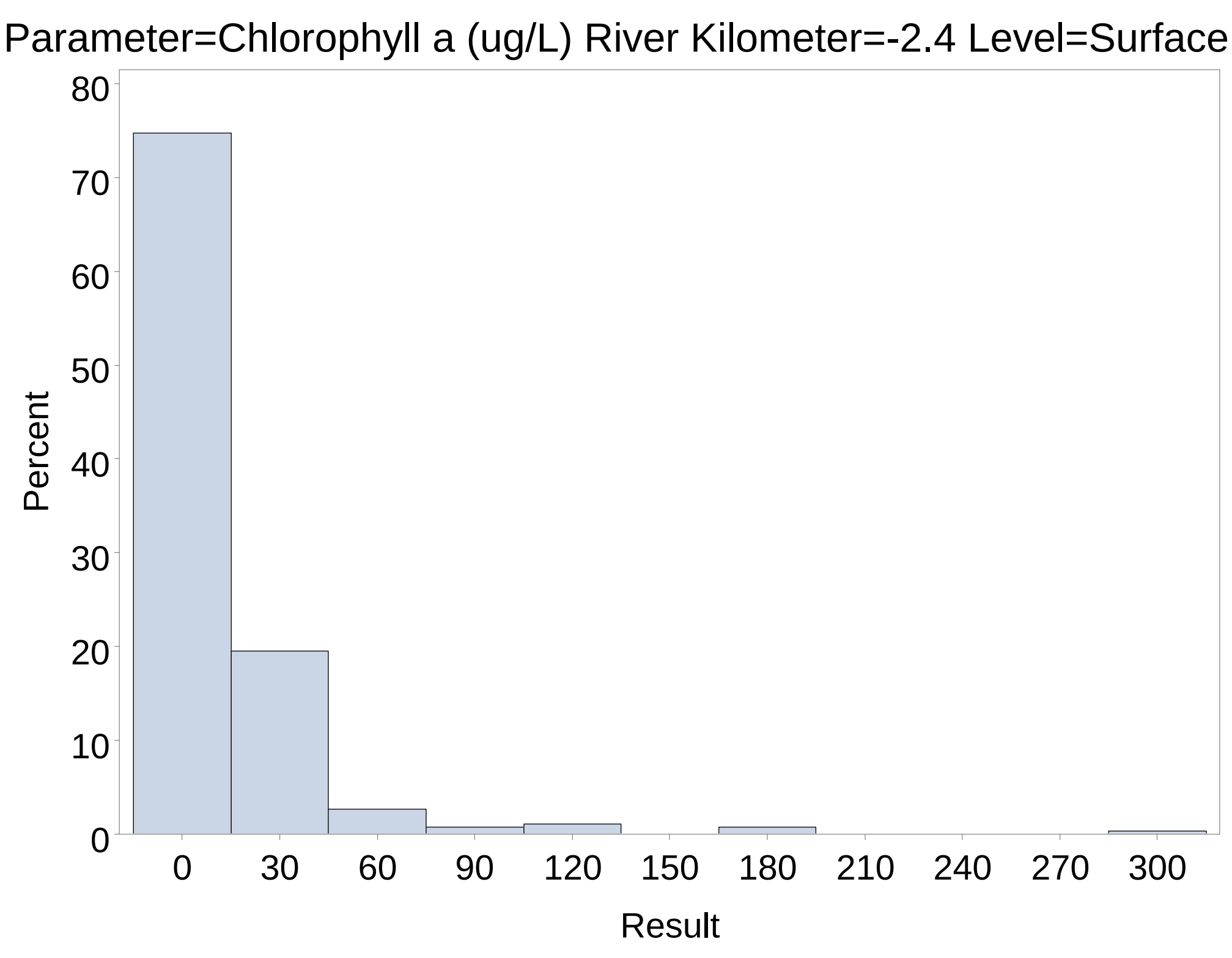
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.774678	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	307.00
99%	167.00
95%	49.70
90%	32.00
75% Q3	15.00
50% Median	7.30
25% Q1	4.22
10%	3.46
5%	3.46
1%	1.92
0% Min	1.26

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.26	1153	110.0	1326
1.90	1166	119.8	1143
1.92	1129	167.0	1278
2.04	1176	185.0	1242
2.25	1171	307.0	1207


Parameter=Chlorophyll a (ug/L) River Kilometer=-2.4 Level=Surface
Percent
80
70
60
50
40
30
20
10
0
0
30
60
90
120
150
180
210
240
270
300
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=6.6 Level=Bottom

Moments			
N	261	**Sum Weights**	261
Mean	12.8675096	**Sum Observations**	3358.42
Std Deviation	12.4726765	**Variance**	155.567658
Skewness	3.46596993	**Kurtosis**	16.2072795
Uncorrected SS	83662.0926	**Corrected SS**	40447.5911
Coeff Variation	96.9315498	**Std Error Mean**	0.77203929

Basic Statistical Measures			
Location		**Variability**	
Mean	12.86751	**Std Deviation**	12.47268
Median	9.56000	**Variance**	155.56766
Mode	3.46000	**Range**	95.48000
		Interquartile Range	9.35000

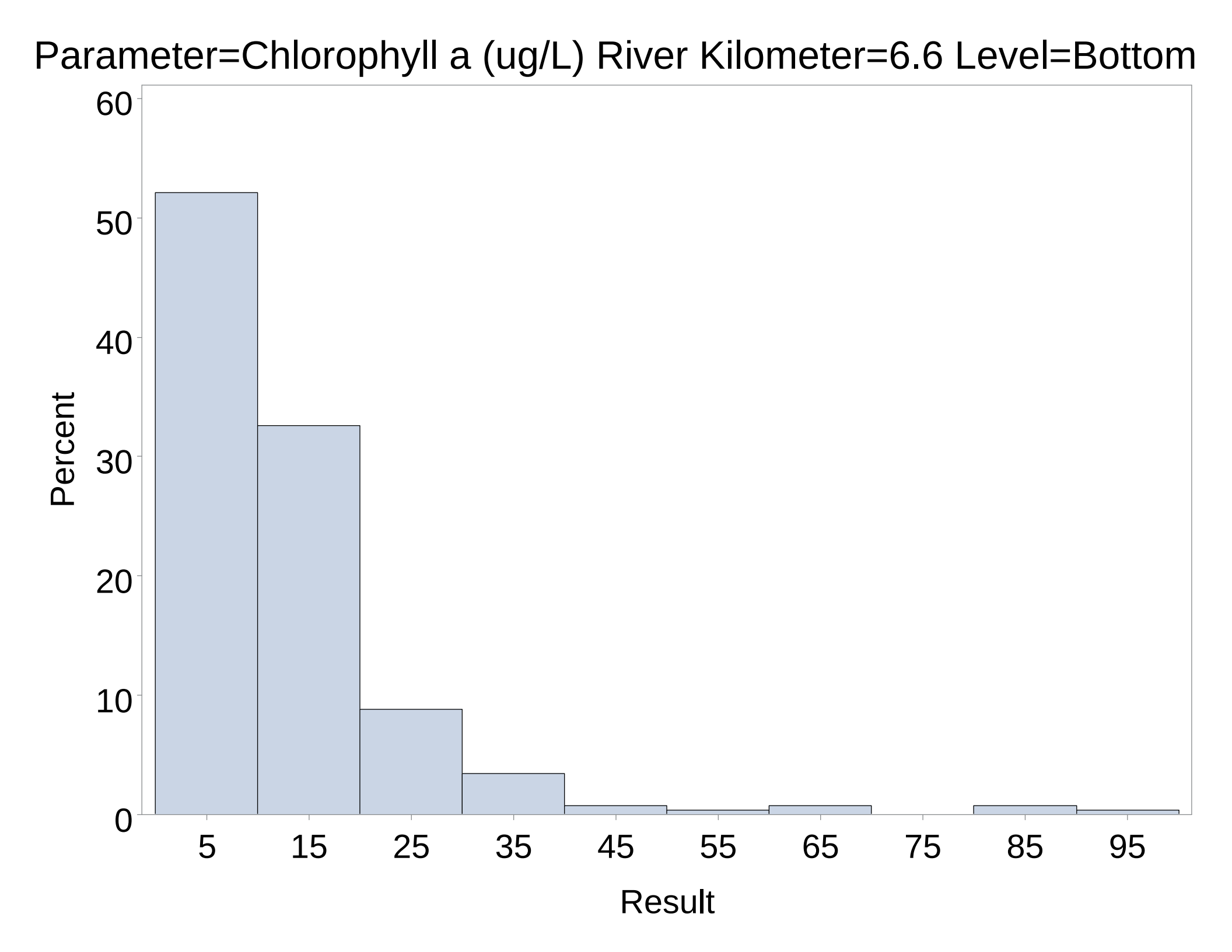
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.66691	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	96.80
99%	81.40
95%	31.80
90%	23.70
75% Q3	15.10
50% Median	9.56
25% Q1	5.75
10%	3.46
5%	3.46
1%	1.96
0% Min	1.32

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.32	1403	63.3	1551
1.50	1409	69.9	1604
1.96	1402	81.4	1479
2.01	1442	81.7	1486
2.27	1401	96.8	1538


Parameter=Chlorophyll a (ug/L) River Kilometer=6.6 Level=Bottom
Percent
60
50
40
30
20
10
0
5
15
25
35
45
55
65
75
85
95
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=6.6 Level=Surface

Moments			
N	262	**Sum Weights**	262
Mean	14.4409669	**Sum Observations**	3783.53333
Std Deviation	18.9934129	**Variance**	360.749733
Skewness	4.63799977	**Kurtosis**	26.082441
Uncorrected SS	148793.56	**Corrected SS**	94155.6804
Coeff Variation	131.524523	**Std Error Mean**	1.17341697

Basic Statistical Measures			
Location		**Variability**	
Mean	14.44097	**Std Deviation**	18.99341
Median	9.36500	**Variance**	360.74973
Mode	3.46000	**Range**	151.47000
		Interquartile Range	10.20000

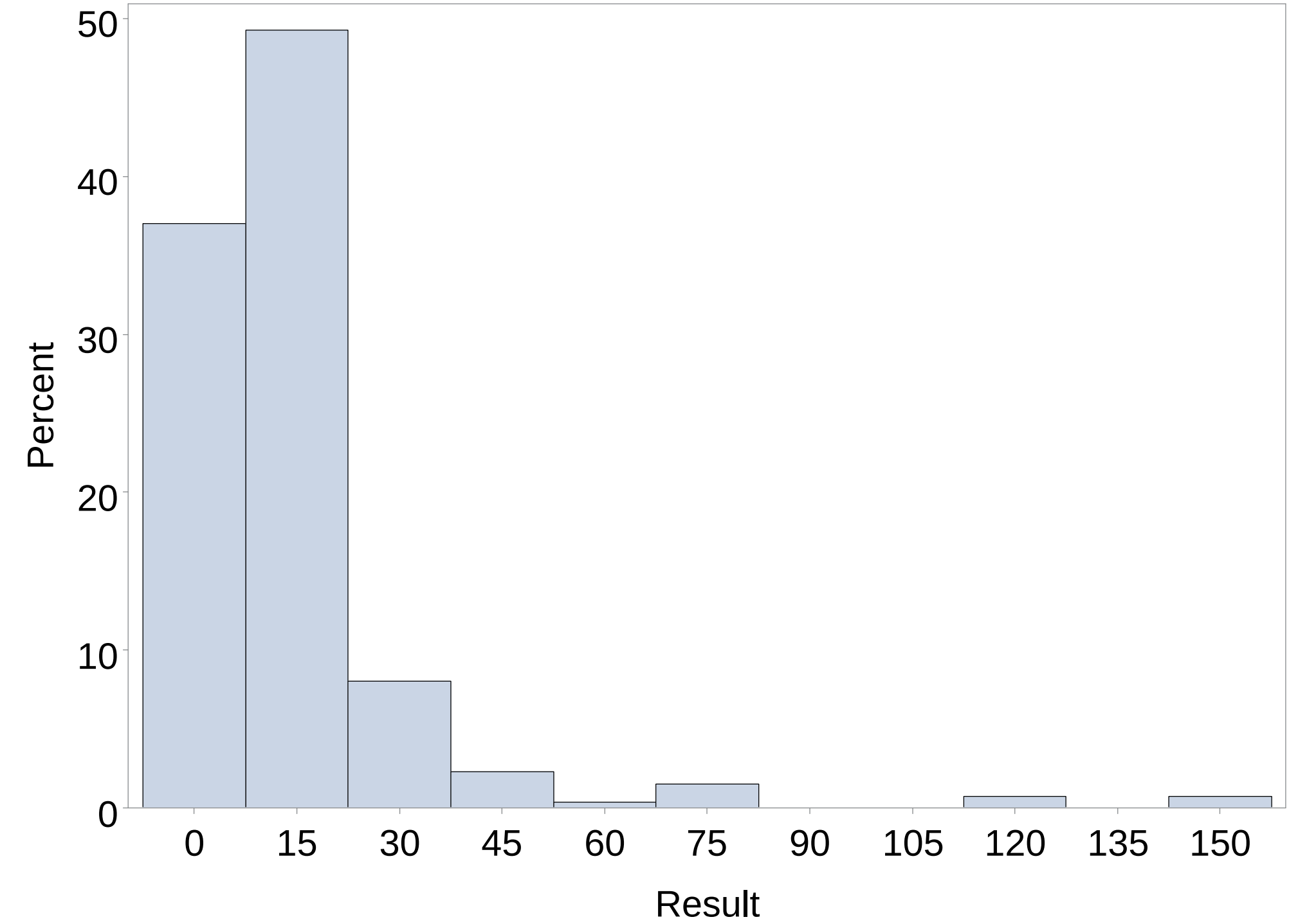
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.30677	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	153.000
99%	124.000
95%	38.700
90%	26.750
75% Q3	15.700
50% Median	9.365
25% Q1	5.500
10%	3.790
5%	3.460
1%	2.000
0% Min	1.530

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.53	1664	79.2	1813
1.90	1670	118.0	1800
2.00	1704	124.0	1741
2.27	1706	144.0	1748
2.40	1663	153.0	1811


Parameter=Chlorophyll a (ug/L) River Kilometer=6.6 Level=Surface
Percent
50
40
30
20
10
0
0
15
30
45
60
75
90
105
120
135
150
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=15.5 Level=Bottom

Moments			
N	262	**Sum Weights**	262
Mean	14.3249237	**Sum Observations**	3753.13
Std Deviation	20.7151178	**Variance**	429.116106
Skewness	6.80074169	**Kurtosis**	65.7756769
Uncorrected SS	165762.604	**Corrected SS**	111999.304
Coeff Variation	144.608923	**Std Error Mean**	1.27978425

Basic Statistical Measures			
Location		**Variability**	
Mean	14.32492	**Std Deviation**	20.71512
Median	9.06500	**Variance**	429.11611
Mode	3.46000	**Range**	247.50000
		Interquartile Range	11.16000

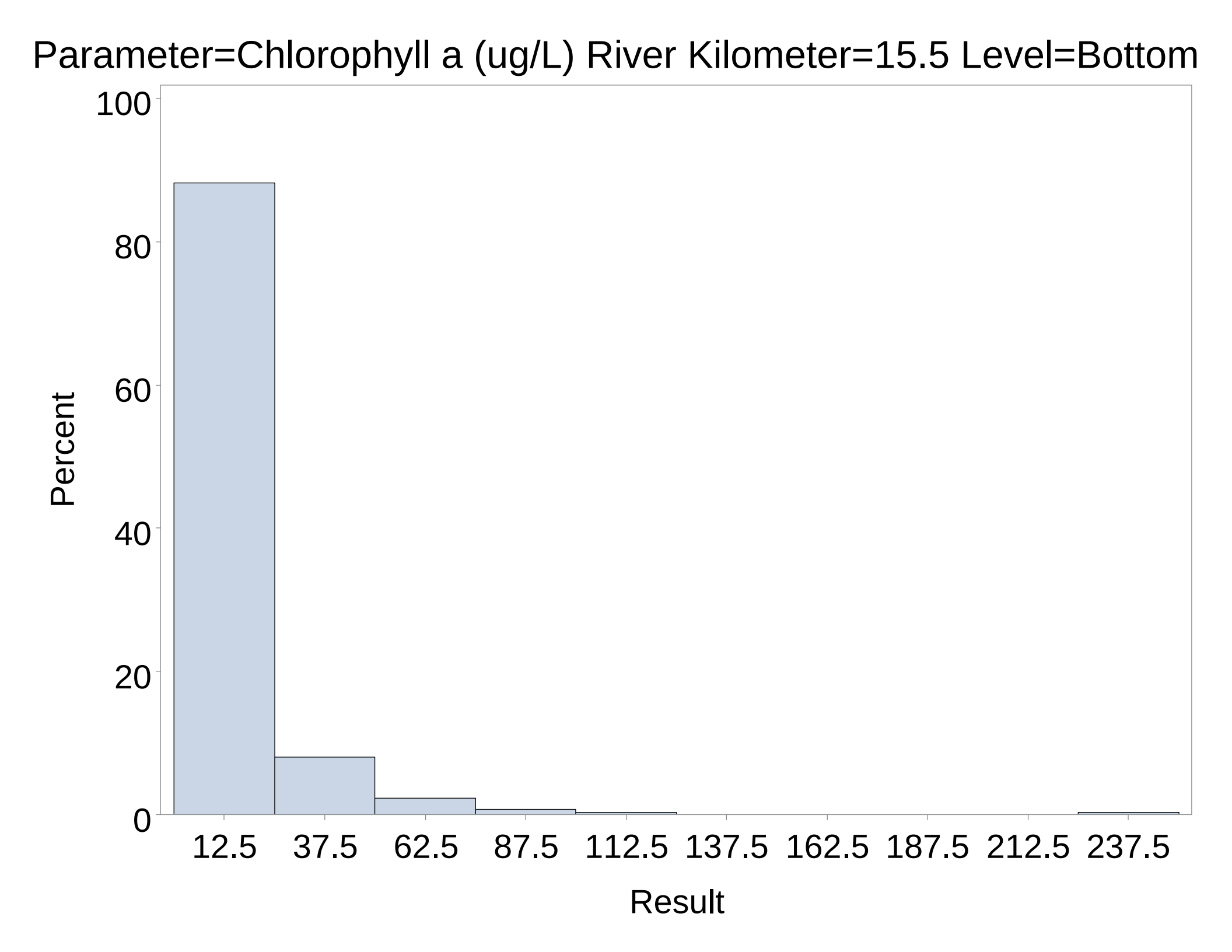
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.19323	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	248.000
99%	95.100
95%	39.400
90%	26.500
75% Q3	15.900
50% Median	9.065
25% Q1	4.740
10%	3.460
5%	3.460
1%	1.000
0% Min	0.500

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	1923	65.2	1935
0.50	1918	92.7	2049
1.00	1967	95.1	1933
1.00	1932	123.0	2002
1.33	1965	248.0	2015


Parameter=Chlorophyll a (ug/L) River Kilometer=15.5 Level=Bottom
100
80
60
40
20
0
Percent
12.5
37.5
62.5
87.5
112.5
137.5
162.5
187.5
212.5
237.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=15.5 Level=Surface

Moments			
N	262	**Sum Weights**	262
Mean	21.5034478	**Sum Observations**	5633.90333
Std Deviation	67.6711946	**Variance**	4579.39058
Skewness	13.5357756	**Kurtosis**	200.873889
Uncorrected SS	1316369.29	**Corrected SS**	1195220.94
Coeff Variation	314.699276	**Std Error Mean**	4.18074037

Basic Statistical Measures			
Location		**Variability**	
Mean	21.50345	**Std Deviation**	67.67119
Median	10.70000	**Variance**	4579
Mode	3.46000	**Range**	1041
		Interquartile Range	13.46000

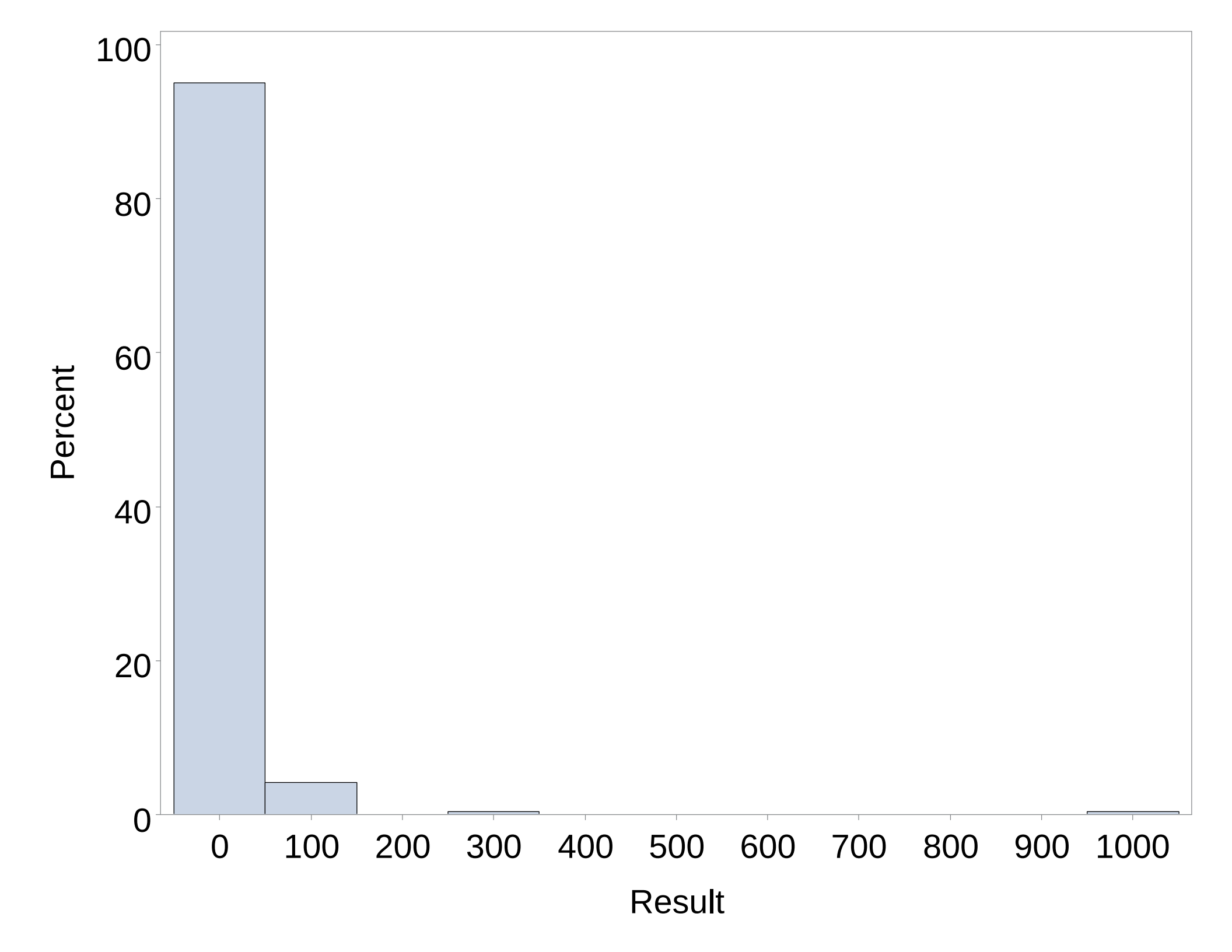
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	5.143454	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1042.00
99%	131.00
95%	49.90
90%	35.00
75% Q3	20.40
50% Median	10.70
25% Q1	6.94
10%	3.79
5%	3.46
1%	1.70
0% Min	1.31

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.31	2194	82.5	2292
1.56	2228	98.9	2219
1.70	2187	131.0	2265
1.83	2207	299.0	2312
2.27	2230	1042.0	2278


100
80
60
40
20
0
Percent
0
100
200
300
400
500
600
700
800
900
1000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=23.6 Level=Bottom

Moments			
N	260	**Sum Weights**	260
Mean	12.0776154	**Sum Observations**	3140.18
Std Deviation	16.953957	**Variance**	287.436658
Skewness	3.63588093	**Kurtosis**	14.4418133
Uncorrected SS	112371.981	**Corrected SS**	74446.0945
Coeff Variation	140.375037	**Std Error Mean**	1.05143978

Basic Statistical Measures			
Location		**Variability**	
Mean	12.07762	**Std Deviation**	16.95396
Median	6.77000	**Variance**	287.43666
Mode	3.46000	**Range**	103.50000
		Interquartile Range	7.96000

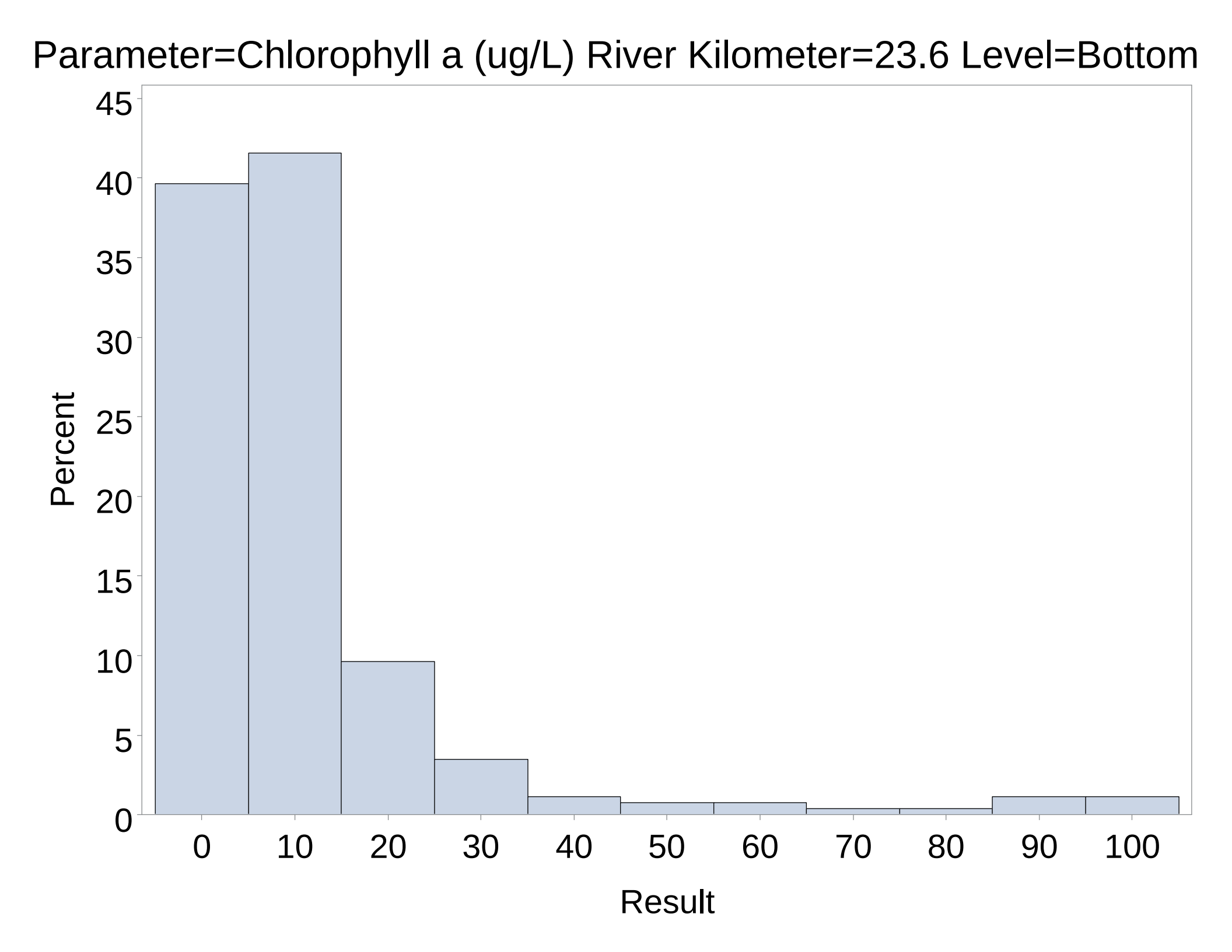
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.48674	**Pr > |t|**	<.0001
Sign	**M**	130	**Pr >= |M|**	<.0001
Signed Rank	**S**	16965	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	104.00
99%	103.00
95%	41.10
90%	23.60
75% Q3	11.90
50% Median	6.77
25% Q1	3.94
10%	3.46
5%	2.21
1%	1.00
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	2440	88.3	2542
1.00	2490	88.6	2685
1.00	2453	103.0	2530
1.00	2447	103.0	2532
1.09	2487	104.0	2524


Parameter=Chlorophyll a (ug/L) River Kilometer=23.6 Level=Bottom
Percent
45
40
35
30
25
20
15
10
5
0
0
10
20
30
40
50
60
70
80
90
100
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=23.6 Level=Surface

Moments			
N	263	**Sum Weights**	263
Mean	14.7254943	**Sum Observations**	3872.805
Std Deviation	17.5630012	**Variance**	308.459013
Skewness	2.85814303	**Kurtosis**	9.09969261
Uncorrected SS	137845.229	**Corrected SS**	80816.2614
Coeff Variation	119.269349	**Std Error Mean**	1.08298105

Basic Statistical Measures			
Location		**Variability**	
Mean	14.72549	**Std Deviation**	17.56300
Median	9.03000	**Variance**	308.45901
Mode	3.46000	**Range**	103.50000
		Interquartile Range	12.88500

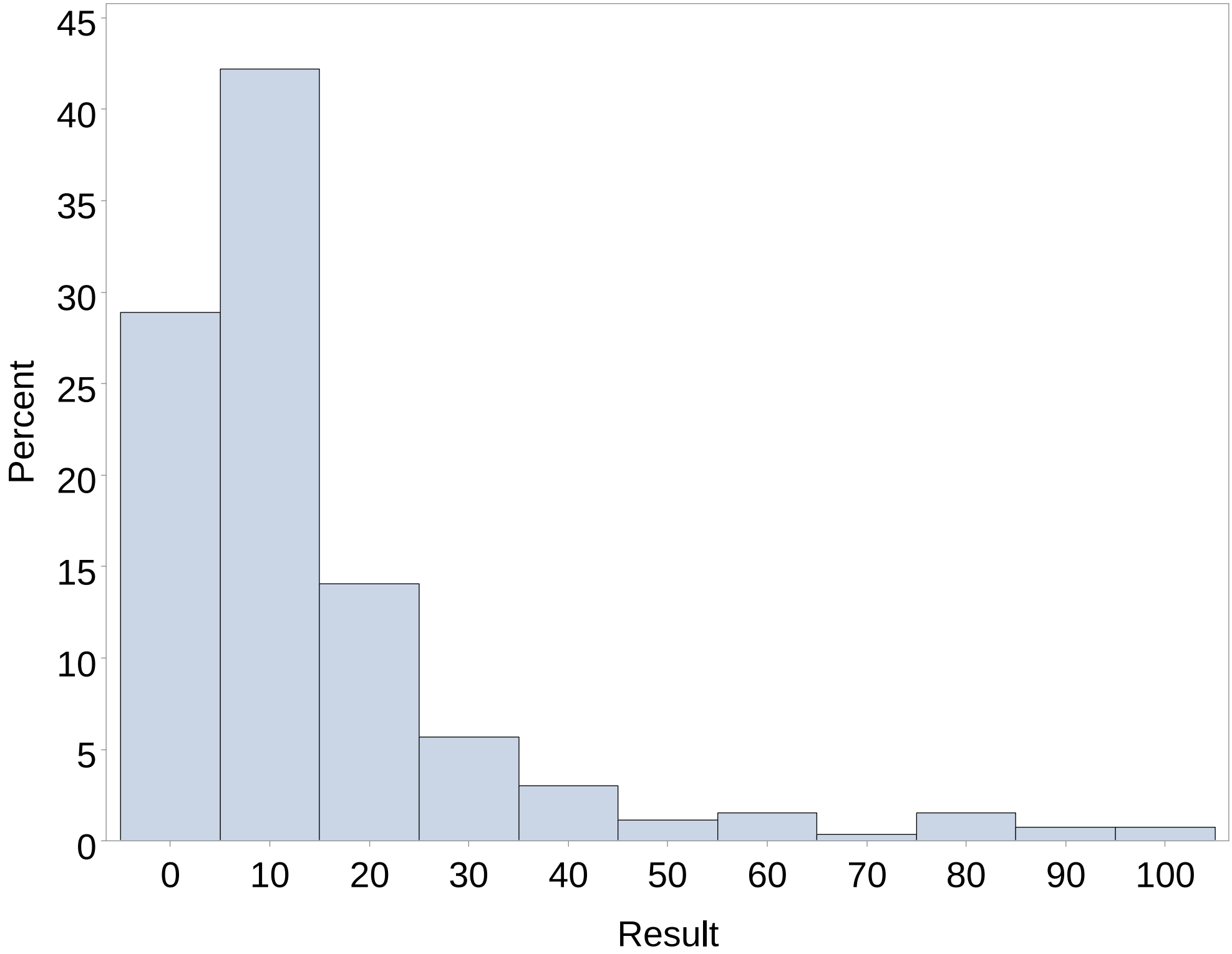
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.59719	**Pr > |t|**	<.0001
Sign	**M**	131.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17358	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	104.000
99%	94.500
95%	49.300
90%	32.800
75% Q3	17.200
50% Median	9.030
25% Q1	4.315
10%	3.460
5%	2.310
1%	1.120
0% Min	0.500

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	2702	83.5	2875
1.00	2725	91.5	2793
1.12	2752	94.5	2795
1.12	2750	97.2	2948
1.31	2716	104.0	2787


45
40
35
30
25
20
15
10
5
0
Percent
0
10
20
30
40
50
60
70
80
90
100
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=30.7 Level=Bottom

Moments			
N	260	**Sum Weights**	260
Mean	11.8444423	**Sum Observations**	3079.555
Std Deviation	14.7140772	**Variance**	216.504068
Skewness	3.52902346	**Kurtosis**	16.7987462
Uncorrected SS	92550.1652	**Corrected SS**	56074.5537
Coeff Variation	124.227691	**Std Error Mean**	0.91252833

Basic Statistical Measures			
Location		**Variability**	
Mean	11.84444	**Std Deviation**	14.71408
Median	6.58000	**Variance**	216.50407
Mode	3.46000	**Range**	118.00000
		Interquartile Range	9.46500

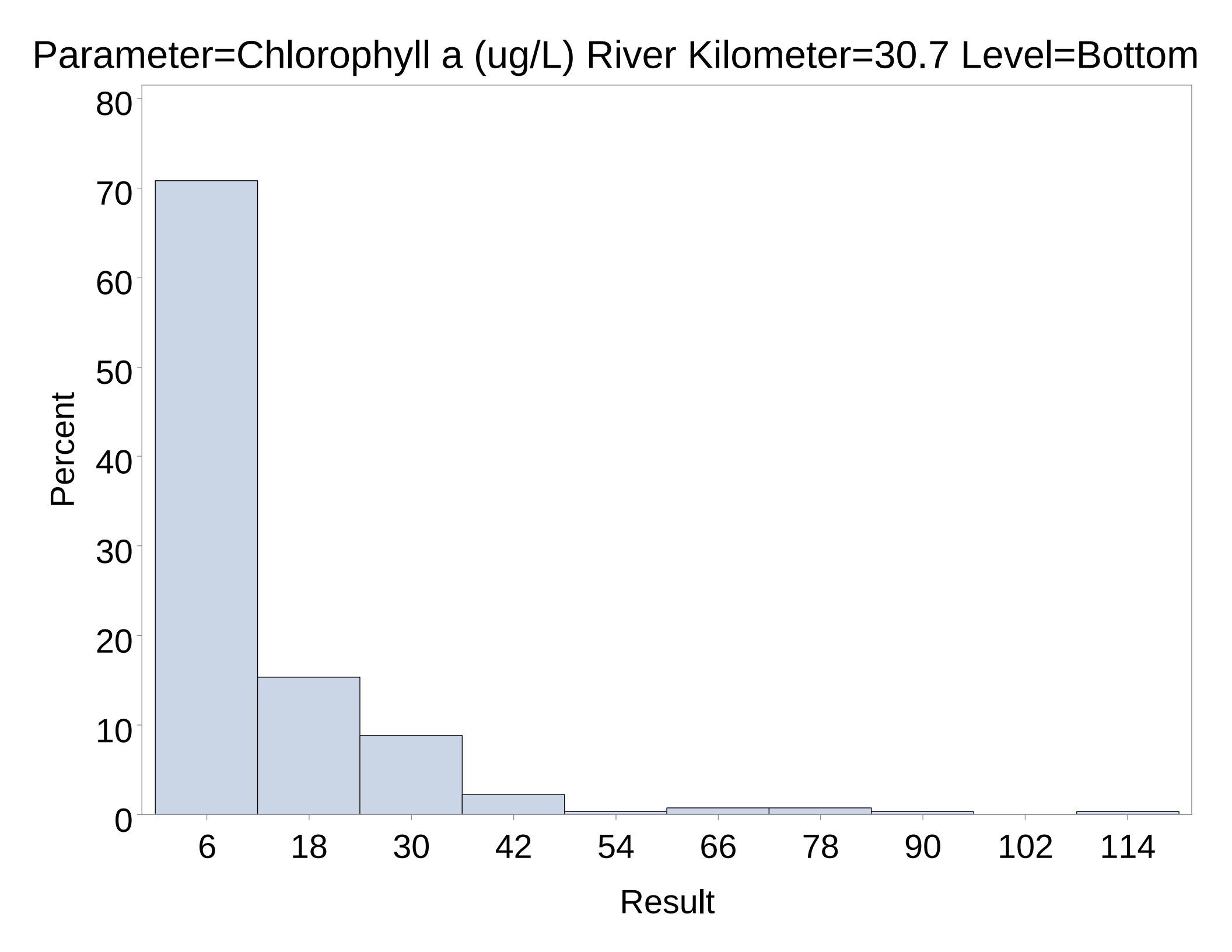
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.97981	**Pr > |t|**	<.0001
Sign	**M**	130	**Pr >= |M|**	<.0001
Signed Rank	**S**	16965	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	119.000
99%	79.400
95%	36.200
90%	27.850
75% Q3	13.300
50% Median	6.580
25% Q1	3.835
10%	3.460
5%	2.270
1%	1.000
0% Min	1.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	3014	67.2	3043
1.00	3013	76.2	3057
1.00	3011	79.4	3210
1.04	2965	89.9	3048
1.13	2979	119.0	3056


Parameter=Chlorophyll a (ug/L) River Kilometer=30.7 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
6
18
30
42
54
66
78
90
102
114
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=30.7 Level=Surface

Moments			
N	262	**Sum Weights**	262
Mean	12.3698601	**Sum Observations**	3240.90333
Std Deviation	15.6402465	**Variance**	244.617311
Skewness	3.84329377	**Kurtosis**	19.7130488
Uncorrected SS	103934.639	**Corrected SS**	63845.1181
Coeff Variation	126.438346	**Std Error Mean**	0.96625766

Basic Statistical Measures			
Location		**Variability**	
Mean	12.36986	**Std Deviation**	15.64025
Median	6.91500	**Variance**	244.61731
Mode	3.46000	**Range**	125.00000
		Interquartile Range	9.66000

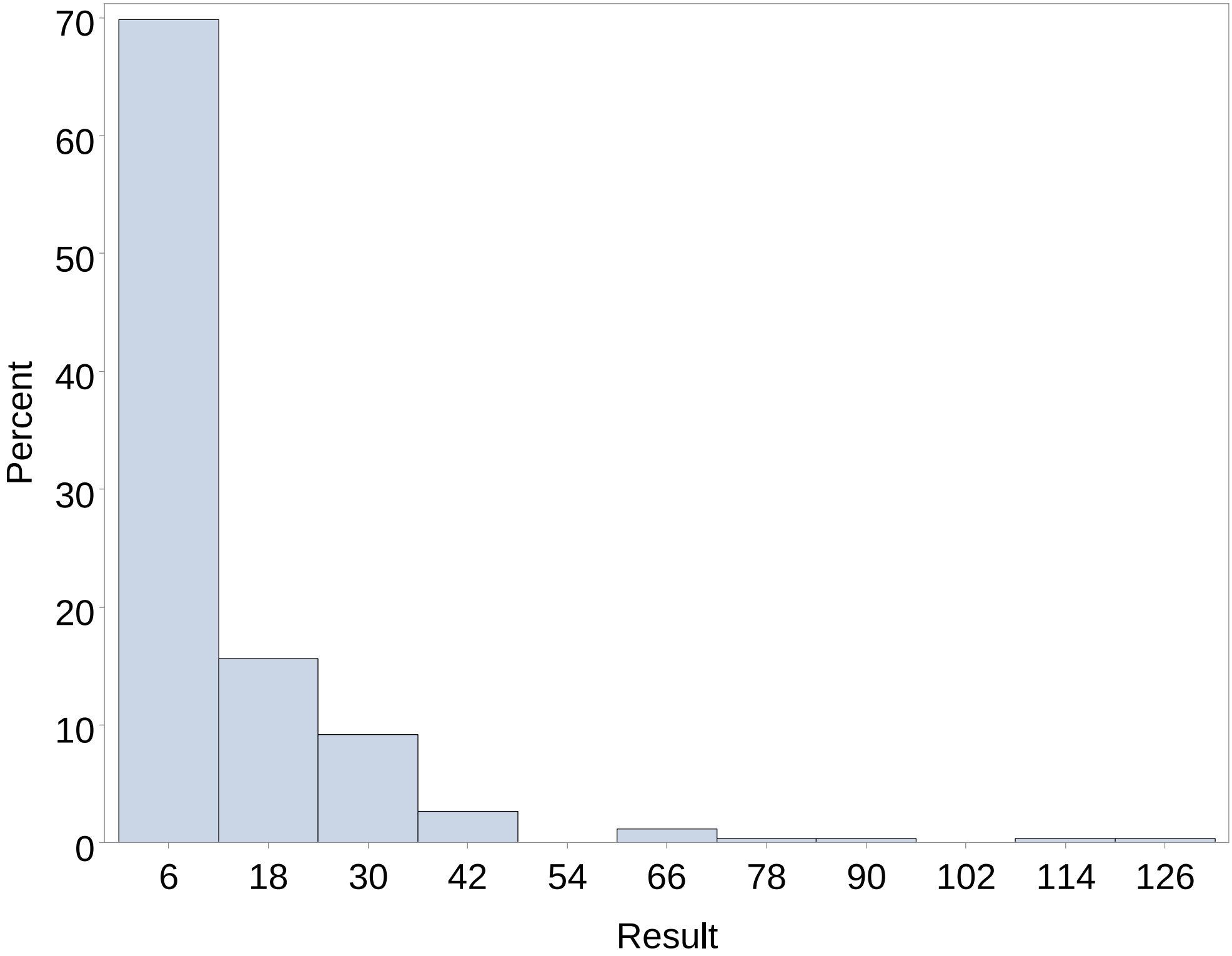
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.80182	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	126.000
99%	90.900
95%	36.100
90%	29.300
75% Q3	13.600
50% Median	6.915
25% Q1	3.940
10%	3.460
5%	2.260
1%	1.390
0% Min	1.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll a (ug/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	3273	68.8	3328
1.36	3275	81.1	3319
1.39	3276	90.9	3310
1.40	3225	110.0	3318
1.42	3263	126.0	3472


70
60
50
40
30
20
10
0
Percent
6
18
30
42
54
66
78
90
102
114
126
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=-2.4 Level=Bottom

Moments			
N	201	**Sum Weights**	201
Mean	3.84970149	**Sum Observations**	773.79
Std Deviation	1.534611	**Variance**	2.35503091
Skewness	6.24824458	**Kurtosis**	46.0089968
Uncorrected SS	3449.8667	**Corrected SS**	471.006182
Coeff Variation	39.8631166	**Std Error Mean**	0.10824311

Basic Statistical Measures			
Location		**Variability**	
Mean	3.849701	**Std Deviation**	1.53461
Median	3.460000	**Variance**	2.35503
Mode	3.460000	**Range**	16.46000
		Interquartile Range	0

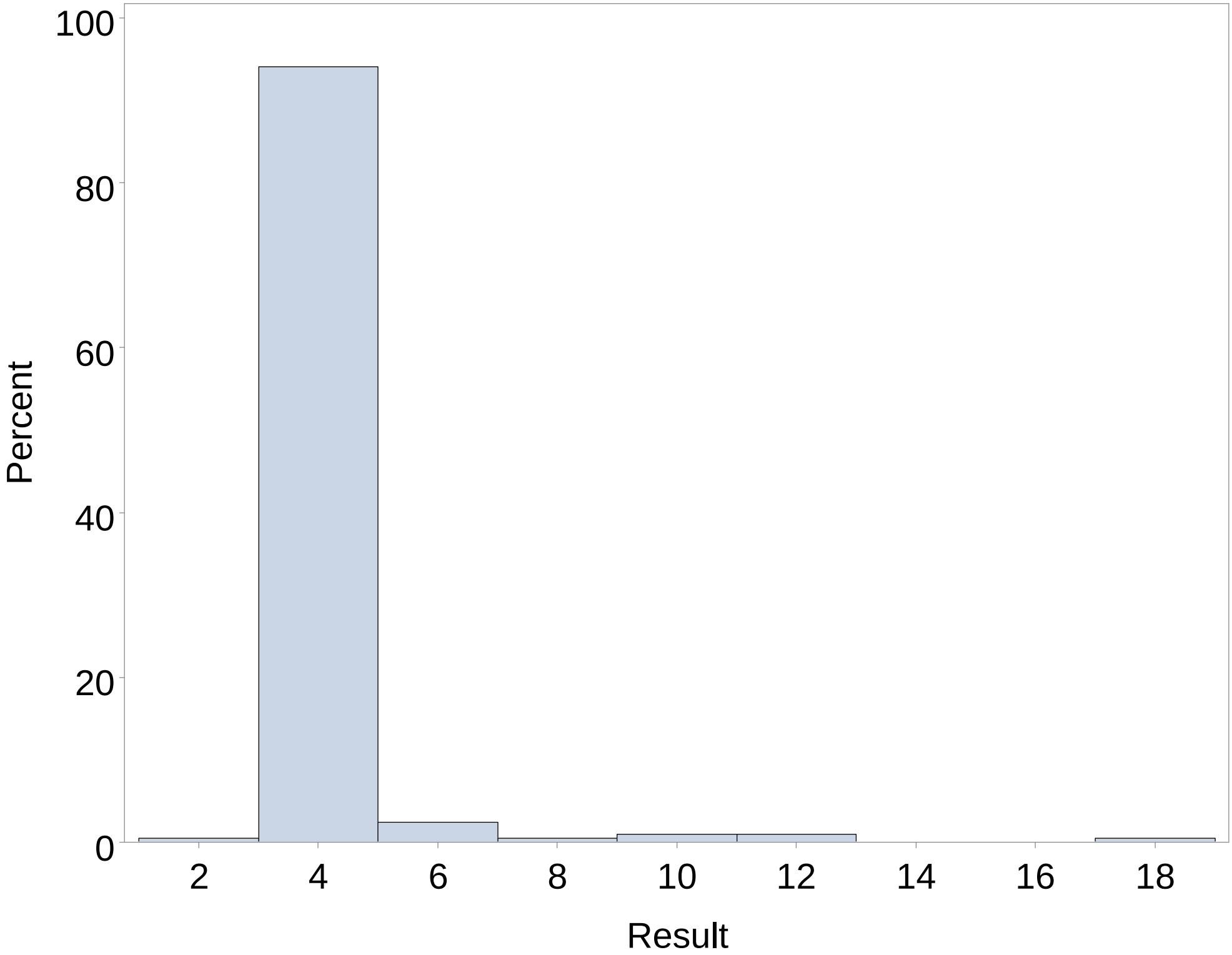
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.56532	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.10
99%	11.20
95%	5.02
90%	3.94
75% Q3	3.46
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	1.64

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.64	3641	9.54	3515
3.37	3596	10.70	3634
3.46	3682	11.20	3517
3.46	3681	12.30	3668
3.46	3680	18.10	3620


100
80
60
40
20
0
Percent
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=-2.4 Level=Surface

Moments			
N	200	**Sum Weights**	200
Mean	3.92815	**Sum Observations**	785.63
Std Deviation	1.70658084	**Variance**	2.91241817
Skewness	5.98527359	**Kurtosis**	45.1984459
Uncorrected SS	3665.6437	**Corrected SS**	579.571216
Coeff Variation	43.4449001	**Std Error Mean**	0.12067349

Basic Statistical Measures			
Location		**Variability**	
Mean	3.928150	**Std Deviation**	1.70658
Median	3.460000	**Variance**	2.91242
Mode	3.460000	**Range**	18.74000
		Interquartile Range	0

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.55189	**Pr > |t|**	<.0001
Sign	**M**	100	**Pr >= |M|**	<.0001
Signed Rank	**S**	10050	**Pr >= |S|**	<.0001

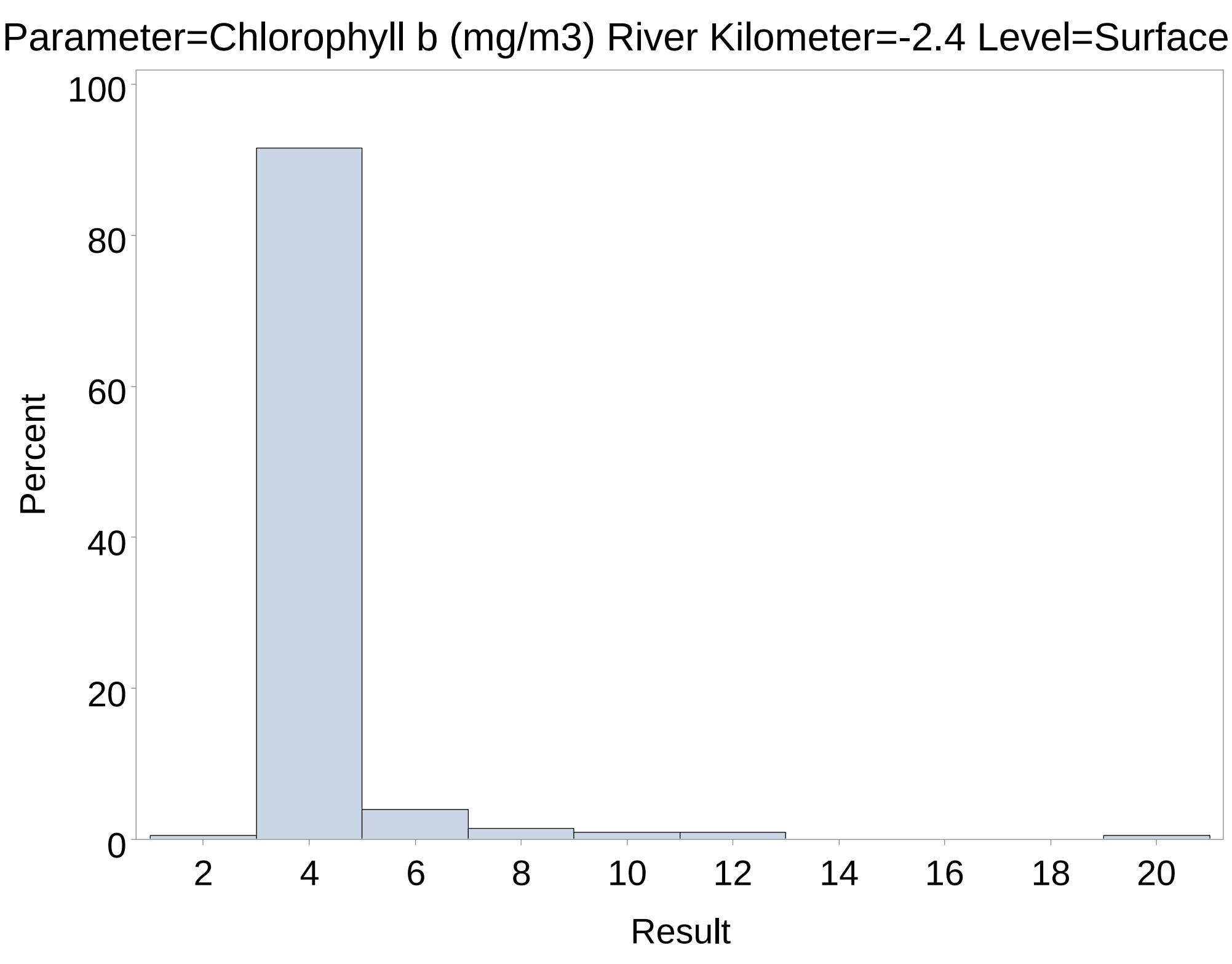
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	20.000
99%	12.200
95%	6.445
90%	4.050
75% Q3	3.460
50% Median	3.460
25% Q1	3.460
10%	3.460
5%	3.460
1%	3.460
0% Min	1.260

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.26	3842	9.11	3714
3.46	3883	9.57	3794
3.46	3882	12.20	3830
3.46	3881	12.20	3835
3.46	3880	20.00	3820

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.50	100.00


Parameter=Chlorophyll b (mg/m3) River Kilometer=-2.4 Level=Surface
Percent
100
80
60
40
20
0
2
4
6
8
10
12
14
16
18
20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=6.6 Level=Bottom

Moments			
N	201	**Sum Weights**	201
Mean	3.86776119	**Sum Observations**	777.42
Std Deviation	1.71531206	**Variance**	2.94229546
Skewness	7.24074566	**Kurtosis**	64.831131
Uncorrected SS	3595.334	**Corrected SS**	588.459093
Coeff Variation	44.348965	**Std Error Mean**	0.12098878

Basic Statistical Measures			
Location		**Variability**	
Mean	3.867761	**Std Deviation**	1.71531
Median	3.460000	**Variance**	2.94230
Mode	3.460000	**Range**	20.75000
		Interquartile Range	0

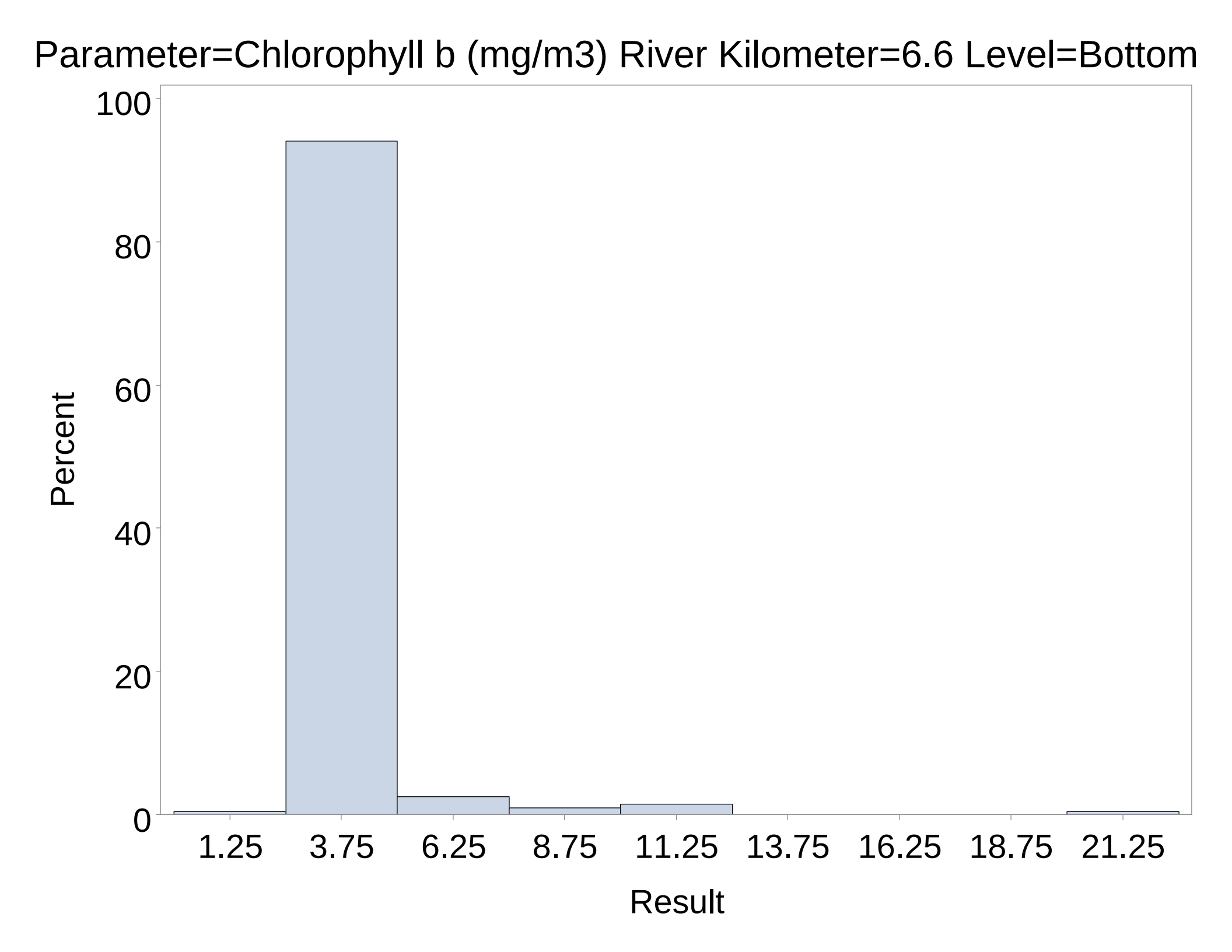
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.96793	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	21.80
99%	11.10
95%	5.01
90%	3.94
75% Q3	3.46
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	1.05

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.05	4043	9.34	3995
3.46	4084	10.10	3913
3.46	4083	11.10	4037
3.46	4082	12.30	3948
3.46	4081	21.80	3915


Parameter=Chlorophyll b (mg/m3) River Kilometer=6.6 Level=Bottom
100
80
60
40
20
0
Percent
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=6.6 Level=Surface

Moments			
N	201	**Sum Weights**	201
Mean	4.04567164	**Sum Observations**	813.18
Std Deviation	2.35940155	**Variance**	5.56677567
Skewness	5.71741069	**Kurtosis**	35.5986768
Uncorrected SS	4403.2144	**Corrected SS**	1113.35513
Coeff Variation	58.3191558	**Std Error Mean**	0.16641935

Basic Statistical Measures			
Location		**Variability**	
Mean	4.045672	**Std Deviation**	2.35940
Median	3.460000	**Variance**	5.56678
Mode	3.460000	**Range**	19.24000
		Interquartile Range	0

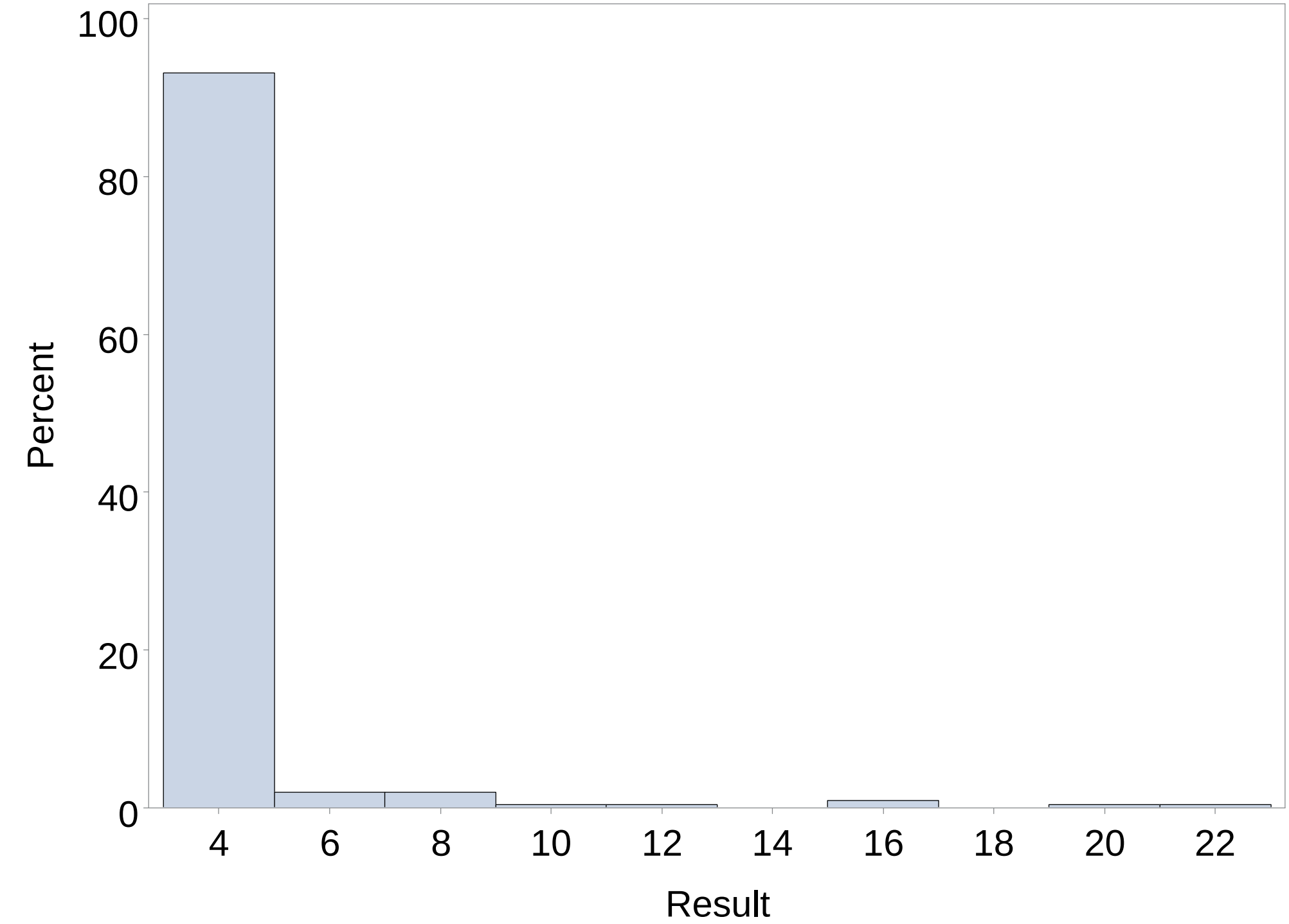
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.3101	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	22.70
99%	16.60
95%	6.59
90%	3.94
75% Q3	3.46
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	3.46

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.46	4285	11.0	4118
3.46	4284	15.3	4223
3.46	4283	16.6	4114
3.46	4282	20.0	4271
3.46	4281	22.7	4120


Parameter=Chlorophyll b (mg/m3) River Kilometer=6.6 Level=Surface
100
80
60
40
20
0
Percent
4
6
8
10
12
14
16
18
20
22
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=15.5 Level=Bottom

Moments			
N	202	**Sum Weights**	202
Mean	4.16417822	**Sum Observations**	841.164
Std Deviation	2.56276962	**Variance**	6.56778811
Skewness	5.67053271	**Kurtosis**	36.6855856
Uncorrected SS	4822.88222	**Corrected SS**	1320.12541
Coeff Variation	61.5432261	**Std Error Mean**	0.18031584

Basic Statistical Measures			
Location		**Variability**	
Mean	4.164178	**Std Deviation**	2.56277
Median	3.460000	**Variance**	6.56779
Mode	3.460000	**Range**	24.14600
		Interquartile Range	0.48000

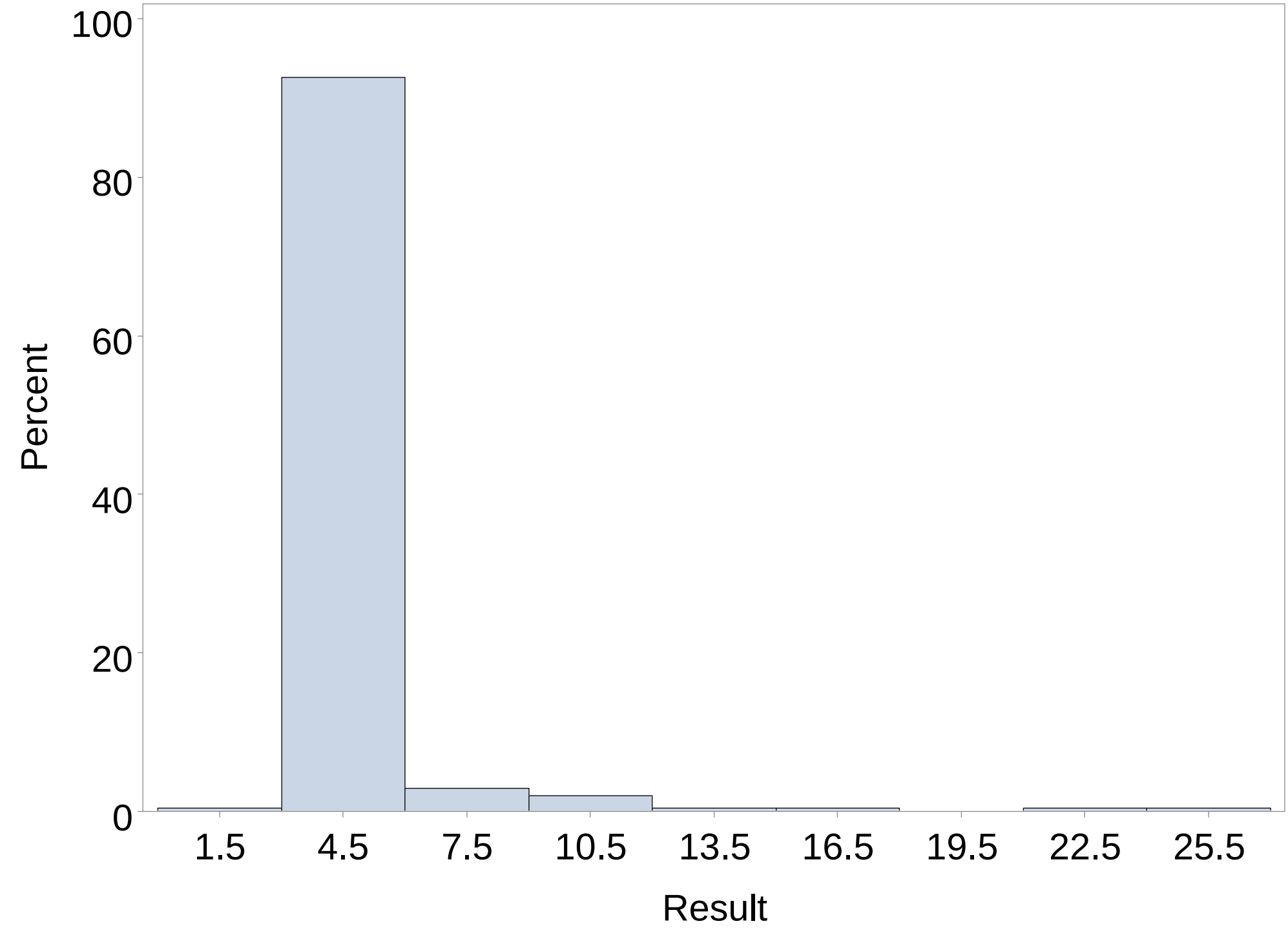
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.0938	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.900
99%	17.000
95%	6.810
90%	4.900
75% Q3	3.940
50% Median	3.460
25% Q1	3.460
10%	3.460
5%	3.460
1%	3.460
0% Min	0.754

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.754	4446	11.7	4394
3.460	4487	14.4	4291
3.460	4486	17.0	4437
3.460	4485	22.1	4473
3.460	4484	24.9	4315


Parameter=Chlorophyll b (mg/m3) River Kilometer=15.5 Level=Bottom
100
80
60
40
20
0
Percent
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=15.5 Level=Surface

Moments			
N	202	**Sum Weights**	202
Mean	4.42239274	**Sum Observations**	893.323333
Std Deviation	4.07458021	**Variance**	16.6022039
Skewness	8.01497681	**Kurtosis**	77.4038202
Uncorrected SS	7287.66961	**Corrected SS**	3337.04299
Coeff Variation	92.1351959	**Std Error Mean**	0.28668646

Basic Statistical Measures			
Location		**Variability**	
Mean	4.422393	**Std Deviation**	4.07458
Median	3.460000	**Variance**	16.60220
Mode	3.460000	**Range**	48.10000
		Interquartile Range	0.48000

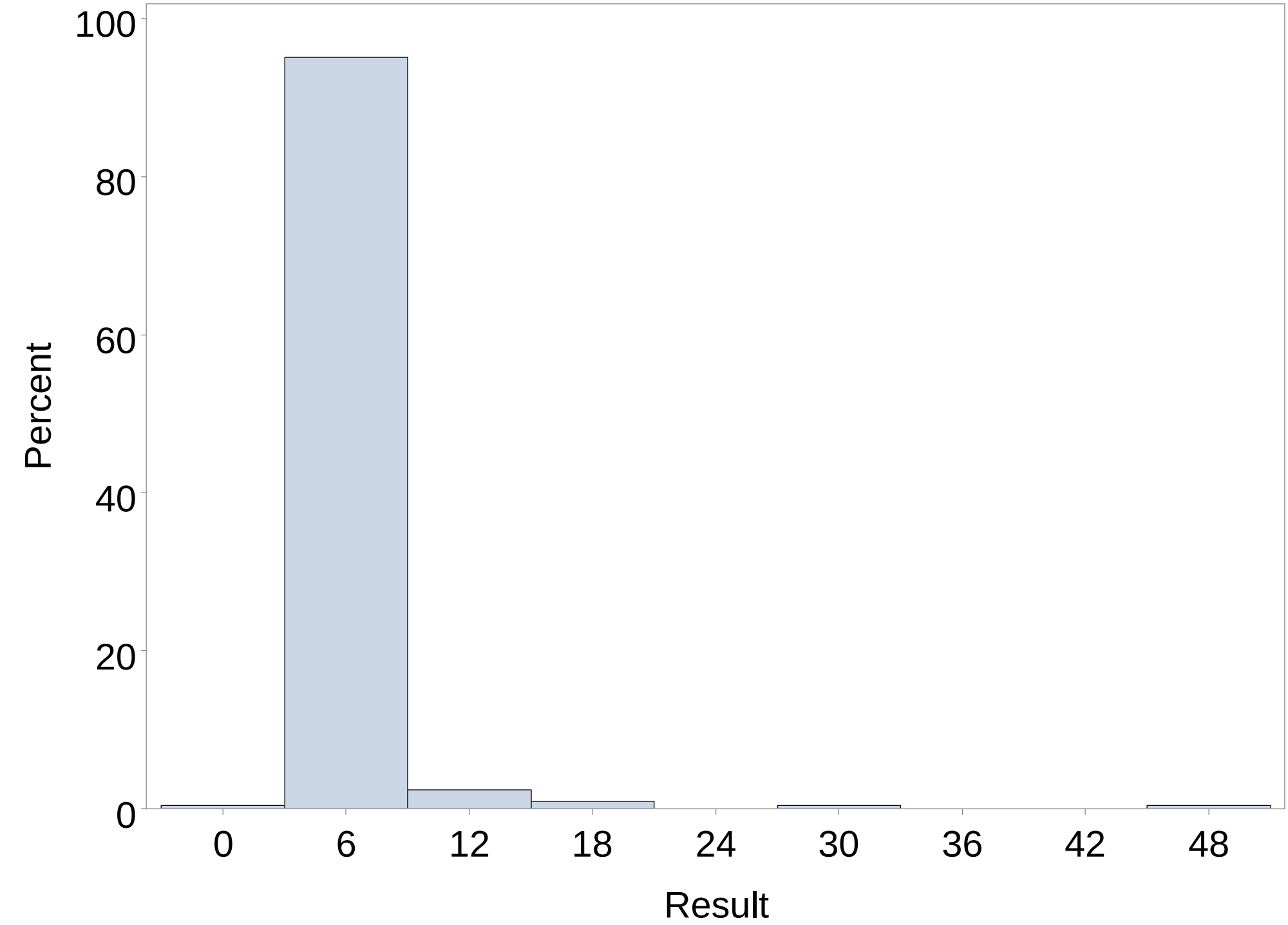
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.42589	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	48.90
99%	17.30
95%	7.61
90%	5.45
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	0.80

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.80	4648	12.4	4676
3.40	4625	16.2	4627
3.46	4689	17.3	4523
3.46	4688	28.8	4517
3.46	4687	48.9	4595


Parameter=Chlorophyll b (mg/m3) River Kilometer=15.5 Level=Surface
Percent
100
80
60
40
20
0
0
6
12
18
24
30
36
42
48
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=23.6 Level=Bottom

Moments			
N	202	**Sum Weights**	202
Mean	4.56985149	**Sum Observations**	923.11
Std Deviation	5.65243737	**Variance**	31.9500482
Skewness	10.7207277	**Kurtosis**	132.295563
Uncorrected SS	10640.4353	**Corrected SS**	6421.9597
Coeff Variation	123.689739	**Std Error Mean**	0.39770411

Basic Statistical Measures			
Location		**Variability**	
Mean	4.569851	**Std Deviation**	5.65244
Median	3.460000	**Variance**	31.95005
Mode	3.460000	**Range**	74.72000
		Interquartile Range	0.48000

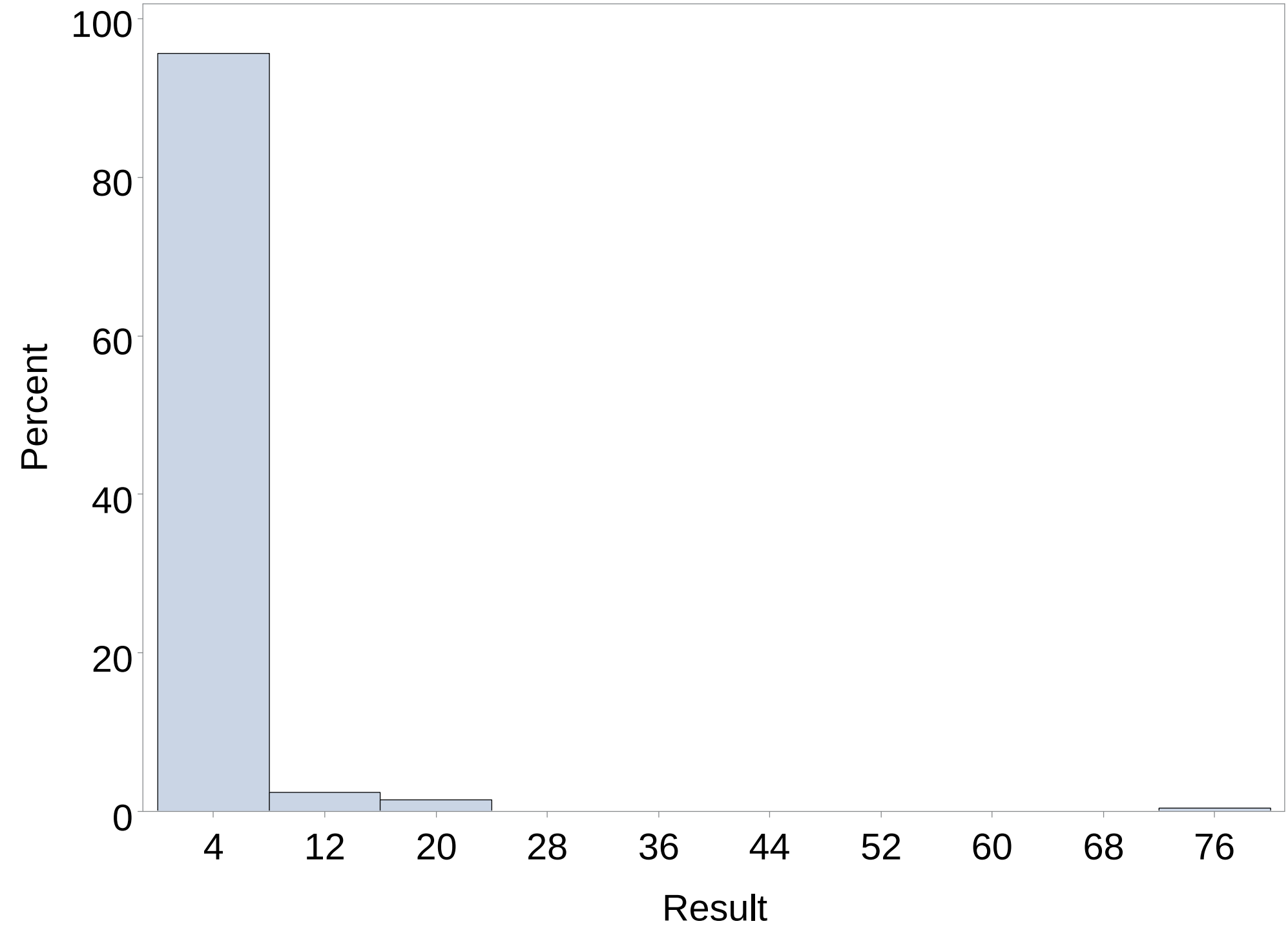
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.49058	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	76.50
99%	19.00
95%	7.00
90%	5.23
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	1.78

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.78	4850	15.0	4877
3.46	4891	18.9	4696
3.46	4890	19.0	4695
3.46	4889	20.7	4719
3.46	4888	76.5	4717


Parameter=Chlorophyll b (mg/m3) River Kilometer=23.6 Level=Bottom
100
80
60
40
20
0
Percent
4
12
20
28
36
44
52
60
68
76
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=23.6 Level=Surface

Moments			
N	202	**Sum Weights**	202
Mean	4.40382838	**Sum Observations**	889.573333
Std Deviation	3.54713858	**Variance**	12.5821921
Skewness	6.5955077	**Kurtosis**	50.7854035
Uncorrected SS	6446.54891	**Corrected SS**	2529.02062
Coeff Variation	80.5467033	**Std Error Mean**	0.2495758

Basic Statistical Measures			
Location		**Variability**	
Mean	4.403828	**Std Deviation**	3.54714
Median	3.460000	**Variance**	12.58219
Mode	3.460000	**Range**	35.94000
		Interquartile Range	0.48000

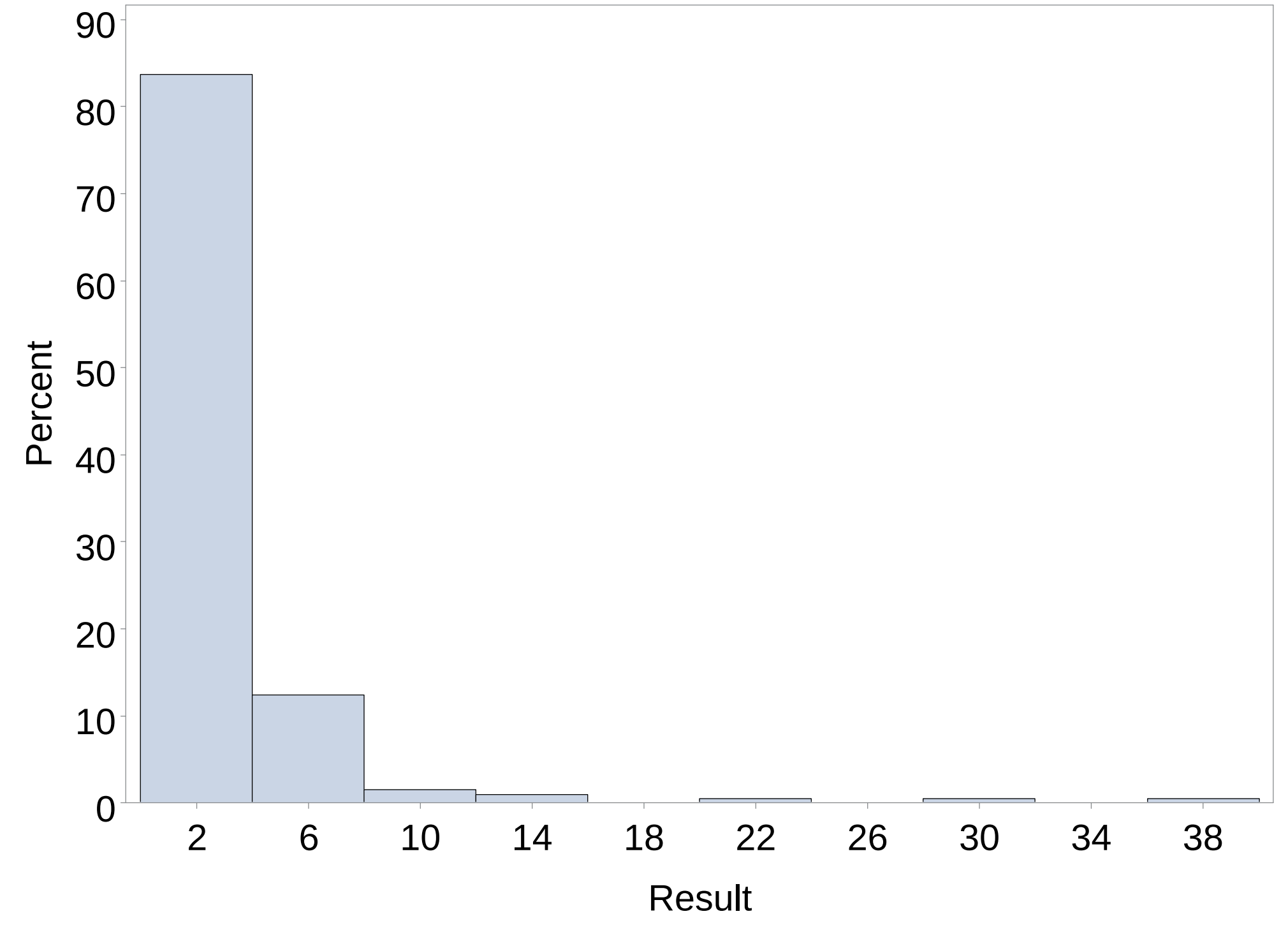
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.64525	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37.40000
99%	21.50000
95%	7.58667
90%	6.11000
75% Q3	3.94000
50% Median	3.46000
25% Q1	3.46000
10%	3.46000
5%	3.46000
1%	3.46000
0% Min	1.46000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.46	5052	13.2000	5045
3.46	5093	15.4367	4897
3.46	5092	21.5000	4921
3.46	5091	29.0000	5043
3.46	5090	37.4000	5071


Parameter=Chlorophyll b (mg/m3) River Kilometer=23.6 Level=Surface
Percent
90
80
70
60
50
40
30
20
10
0
2
6
10
14
18
22
26
30
34
38
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=30.7 Level=Bottom

Moments			
N	201	**Sum Weights**	201
Mean	4.18054726	**Sum Observations**	840.29
Std Deviation	2.08971319	**Variance**	4.3669012
Skewness	4.68410694	**Kurtosis**	25.0918328
Uncorrected SS	4386.2523	**Corrected SS**	873.38024
Coeff Variation	49.986594	**Std Error Mean**	0.147397

Basic Statistical Measures			
Location		**Variability**	
Mean	4.180547	**Std Deviation**	2.08971
Median	3.460000	**Variance**	4.36690
Mode	3.460000	**Range**	16.93000
		Interquartile Range	0.48000

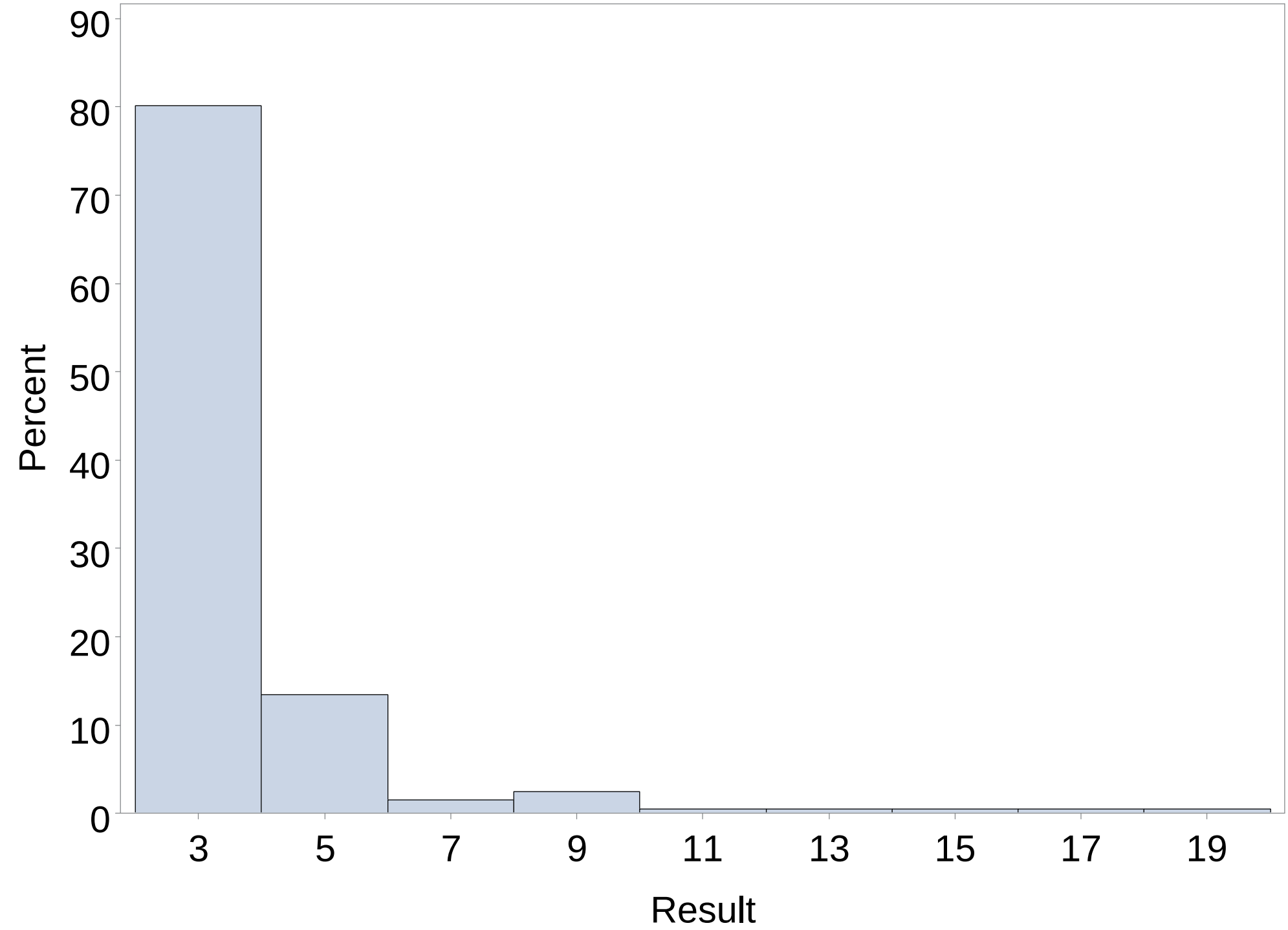
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.3625	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.20
99%	15.20
95%	6.92
90%	5.24
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	2.27

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.27	5253	11.3	5280
3.46	5294	12.3	5099
3.46	5293	15.2	5245
3.46	5292	17.1	5246
3.46	5291	19.2	5123


Parameter=Chlorophyll b (mg/m3) River Kilometer=30.7 Level=Bottom
Percent
90
80
70
60
50
40
30
20
10
0
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=30.7 Level=Surface

Moments			
N	201	**Sum Weights**	201
Mean	4.45104478	**Sum Observations**	894.66
Std Deviation	2.86187321	**Variance**	8.19031829
Skewness	3.85029758	**Kurtosis**	15.3347695
Uncorrected SS	5620.23538	**Corrected SS**	1638.06366
Coeff Variation	64.296662	**Std Error Mean**	0.20186097

Basic Statistical Measures			
Location		**Variability**	
Mean	4.451045	**Std Deviation**	2.86187
Median	3.460000	**Variance**	8.19032
Mode	3.460000	**Range**	18.70000
		Interquartile Range	0.48000

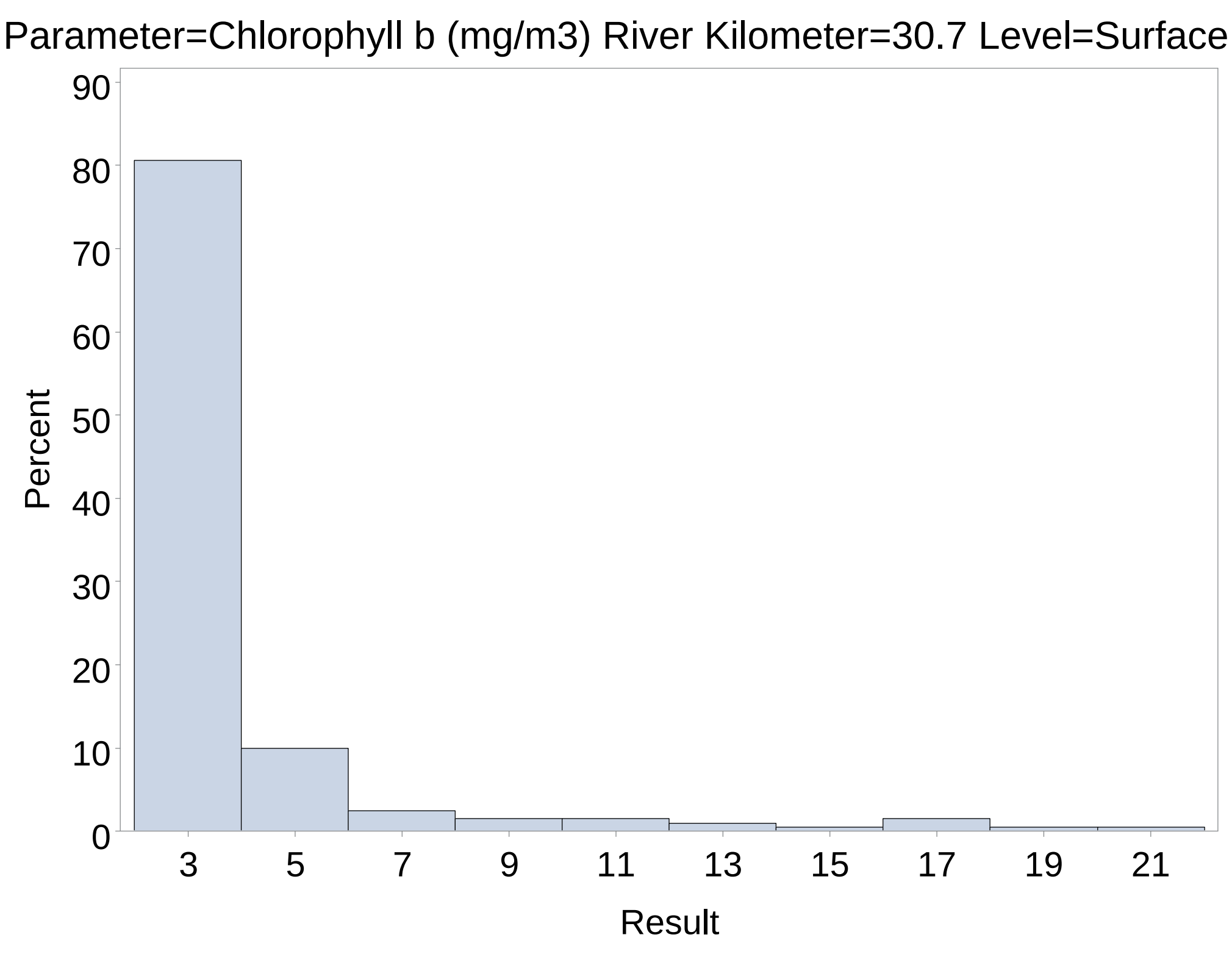
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.05005	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	21.4000
99%	17.3000
95%	10.9667
90%	5.7800
75% Q3	3.9400
50% Median	3.4600
25% Q1	3.4600
10%	3.4600
5%	3.4600
1%	3.4600
0% Min	2.7000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll b (mg/m3) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.70	5454	17.1000	5446
3.46	5495	17.2667	5300
3.46	5494	17.3000	5344
3.46	5492	18.9000	5324
3.46	5491	21.4000	5485


Parameter=Chlorophyll b (mg/m3) River Kilometer=30.7 Level=Surface
Percent
90
80
70
60
50
40
30
20
10
0
3
5
7
9
11
13
15
17
19
21
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=-2.4 Level=Bottom

Moments			
N	201	**Sum Weights**	201
Mean	5.38865672	**Sum Observations**	1083.12
Std Deviation	11.0034177	**Variance**	121.075201
Skewness	11.9362937	**Kurtosis**	155.621123
Uncorrected SS	30051.602	**Corrected SS**	24215.0401
Coeff Variation	204.19593	**Std Error Mean**	0.77612124

Basic Statistical Measures			
Location		**Variability**	
Mean	5.388657	**Std Deviation**	11.00342
Median	3.460000	**Variance**	121.07520
Mode	3.460000	**Range**	147.90000
		Interquartile Range	0.48000

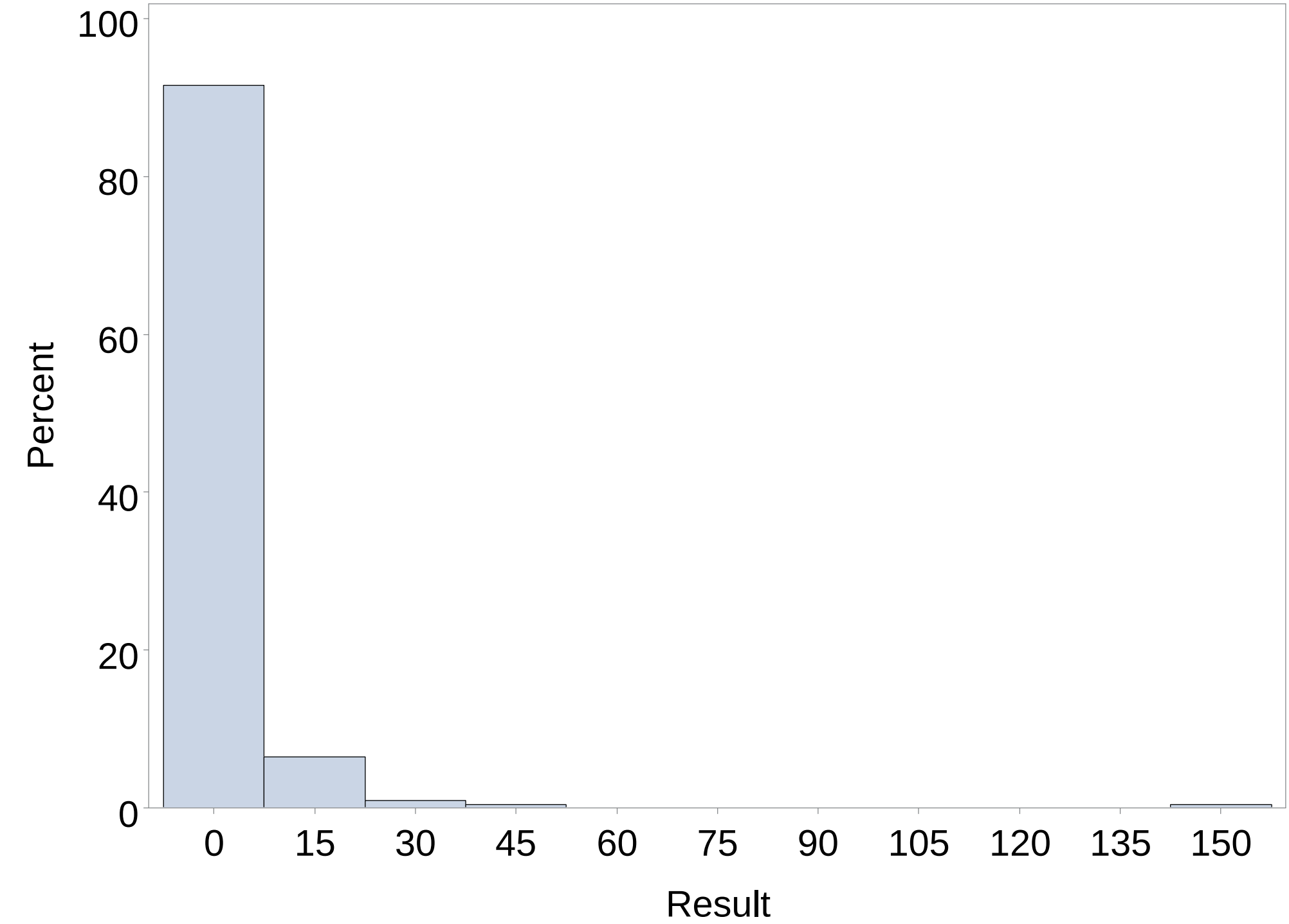
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	6.94306	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	151.00
99%	24.70
95%	9.16
90%	6.72
75% Q3	3.94
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	3.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.10	5655	17.8	5667
3.46	5696	24.5	5681
3.46	5695	24.7	5686
3.46	5694	40.8	5682
3.46	5693	151.0	5514


Parameter=Chlorophyll c (mg/m3) River Kilometer=-2.4 Level=Bottom
Percent
100
80
60
40
20
0
0
15
30
45
60
75
90
105
120
135
150
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=-2.4 Level=Surface

Moments			
N	201	**Sum Weights**	201
Mean	5.96333333	**Sum Observations**	1198.63
Std Deviation	9.32426171	**Variance**	86.9418564
Skewness	7.99746625	**Kurtosis**	77.2911166
Uncorrected SS	24536.2015	**Corrected SS**	17388.3713
Coeff Variation	156.359895	**Std Error Mean**	0.65768271

Basic Statistical Measures			
Location		**Variability**	
Mean	5.963333	**Std Deviation**	9.32426
Median	3.460000	**Variance**	86.94186
Mode	3.460000	**Range**	105.92000
		Interquartile Range	1.38000

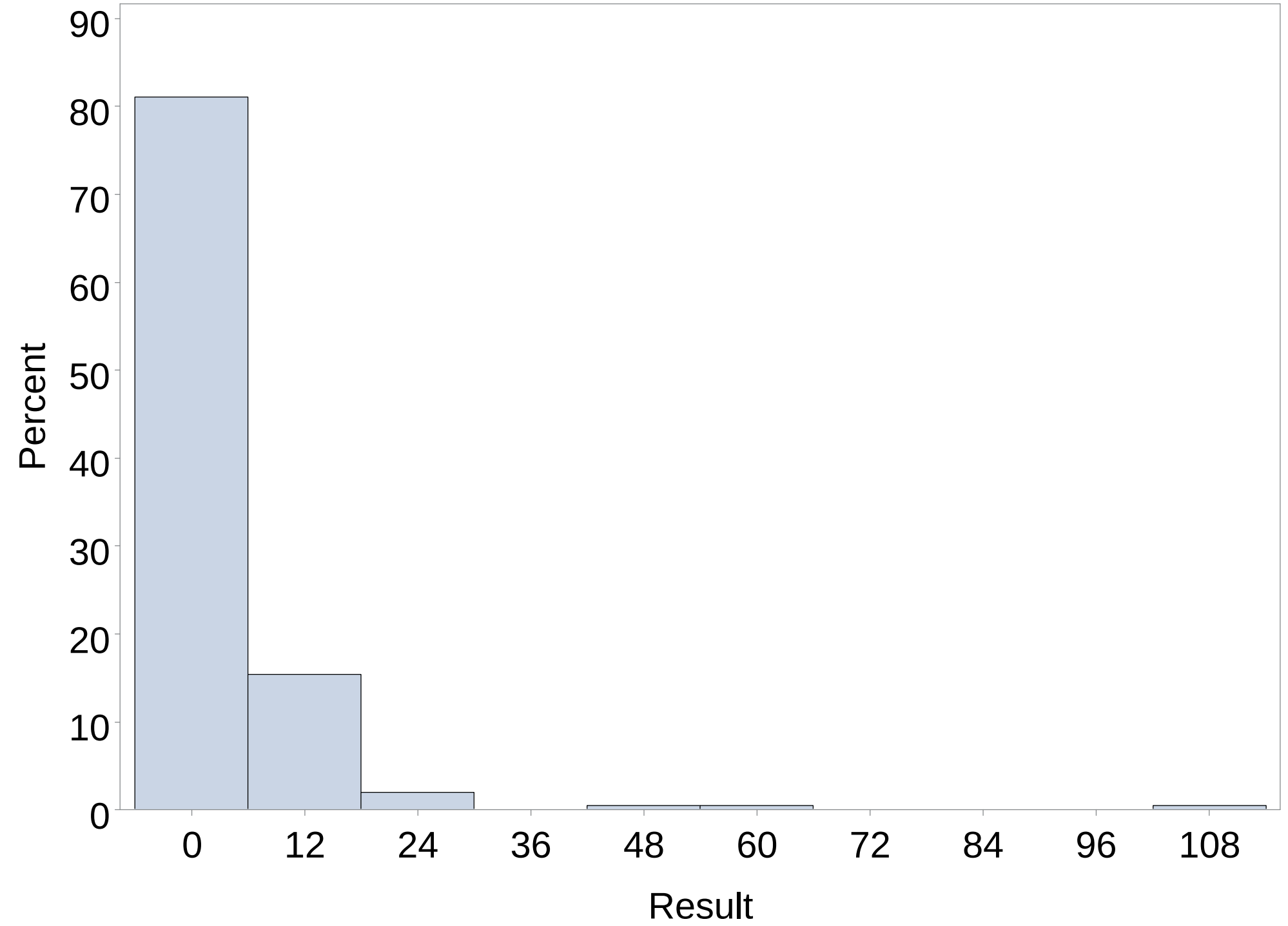
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.067189	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	108.00
99%	47.50
95%	12.60
90%	9.07
75% Q3	4.84
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	2.08

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.08	5856	27.4	5869
3.46	5897	29.6	5834
3.46	5896	47.5	5786
3.46	5895	55.1	5750
3.46	5894	108.0	5715


Parameter=Chlorophyll c (mg/m3) River Kilometer=-2.4 Level=Surface
Percent
90
80
70
60
50
40
30
20
10
0
0
12
24
36
48
60
72
84
96
108
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=6.6 Level=Bottom

Moments			
N	201	**Sum Weights**	201
Mean	5.21890547	**Sum Observations**	1049
Std Deviation	4.11975118	**Variance**	16.9723498
Skewness	3.667621	**Kurtosis**	15.0822817
Uncorrected SS	8869.1018	**Corrected SS**	3394.46996
Coeff Variation	78.9389883	**Std Error Mean**	0.29058484

Basic Statistical Measures			
Location		**Variability**	
Mean	5.218905	**Std Deviation**	4.11975
Median	3.460000	**Variance**	16.97235
Mode	3.460000	**Range**	24.84000
		Interquartile Range	1.24000

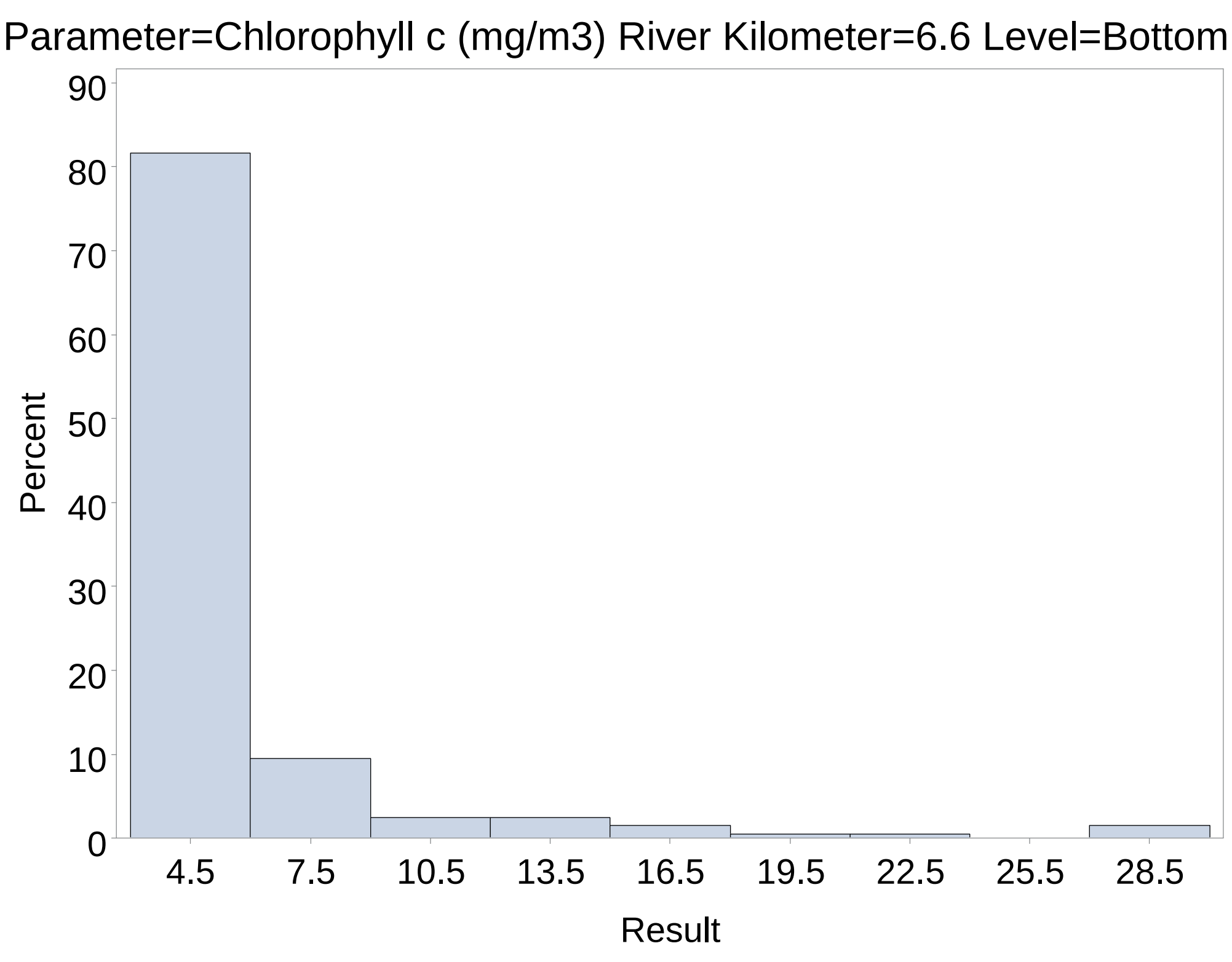
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.96001	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.30
99%	27.70
95%	12.70
90%	8.31
75% Q3	4.70
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	3.46

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.46	6098	19.4	5931
3.46	6097	22.7	5999
3.46	6096	27.7	6087
3.46	6095	27.8	5934
3.46	6094	28.3	5986


Parameter=Chlorophyll c (mg/m3) River Kilometer=6.6 Level=Bottom
Percent
90
80
70
60
50
40
30
20
10
0
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=6.6 Level=Surface

Moments			
N	201	**Sum Weights**	201
Mean	5.61293532	**Sum Observations**	1128.2
Std Deviation	6.66962822	**Variance**	44.4839406
Skewness	5.85097723	**Kurtosis**	40.5211265
Uncorrected SS	15229.3018	**Corrected SS**	8896.78812
Coeff Variation	118.82603	**Std Error Mean**	0.4704393

Basic Statistical Measures			
Location		**Variability**	
Mean	5.612935	**Std Deviation**	6.66963
Median	3.460000	**Variance**	44.48394
Mode	3.460000	**Range**	57.76000
		Interquartile Range	1.40000

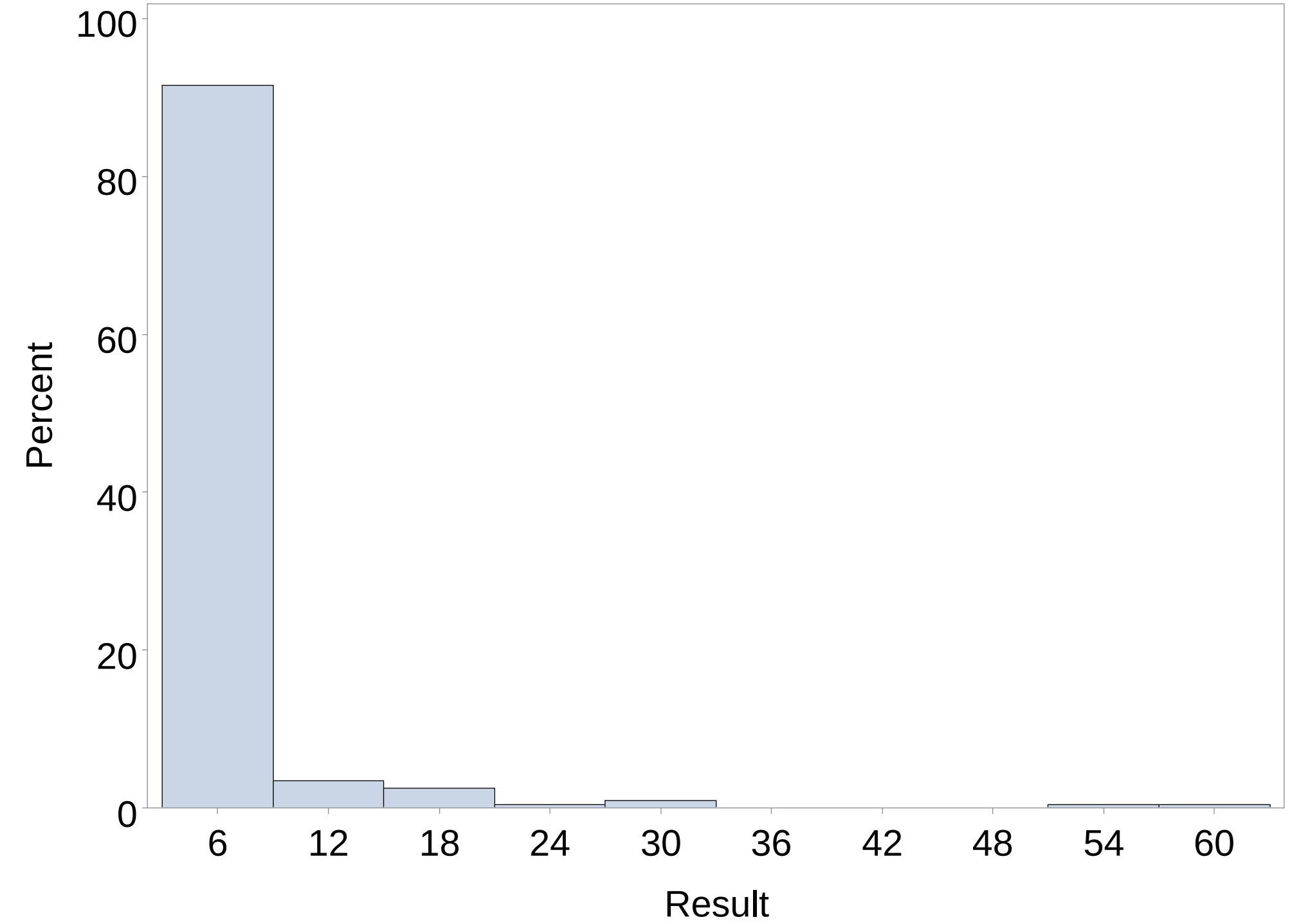
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.93126	**Pr > |t|**	<.0001
Sign	**M**	100.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10150.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	60.80
99%	32.90
95%	14.40
90%	7.82
75% Q3	4.86
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	3.04

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.04	6258	25.1	6200
3.46	6299	27.3	6284
3.46	6298	32.9	6187
3.46	6297	55.9	6198
3.46	6296	60.8	6135


Parameter=Chlorophyll c (mg/m3) River Kilometer=6.6 Level=Surface
100
80
60
40
20
0
Percent
6
12
18
24
30
36
42
48
54
60
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=15.5 Level=Bottom

Moments			
N	202	**Sum Weights**	202
Mean	5.04891089	**Sum Observations**	1019.88
Std Deviation	5.29689093	**Variance**	28.0570535
Skewness	7.59025702	**Kurtosis**	72.7485978
Uncorrected SS	10788.751	**Corrected SS**	5639.46776
Coeff Variation	104.911555	**Std Error Mean**	0.37268795

Basic Statistical Measures			
Location		**Variability**	
Mean	5.048911	**Std Deviation**	5.29689
Median	3.460000	**Variance**	28.05705
Mode	3.460000	**Range**	59.14000
		Interquartile Range	1.02000

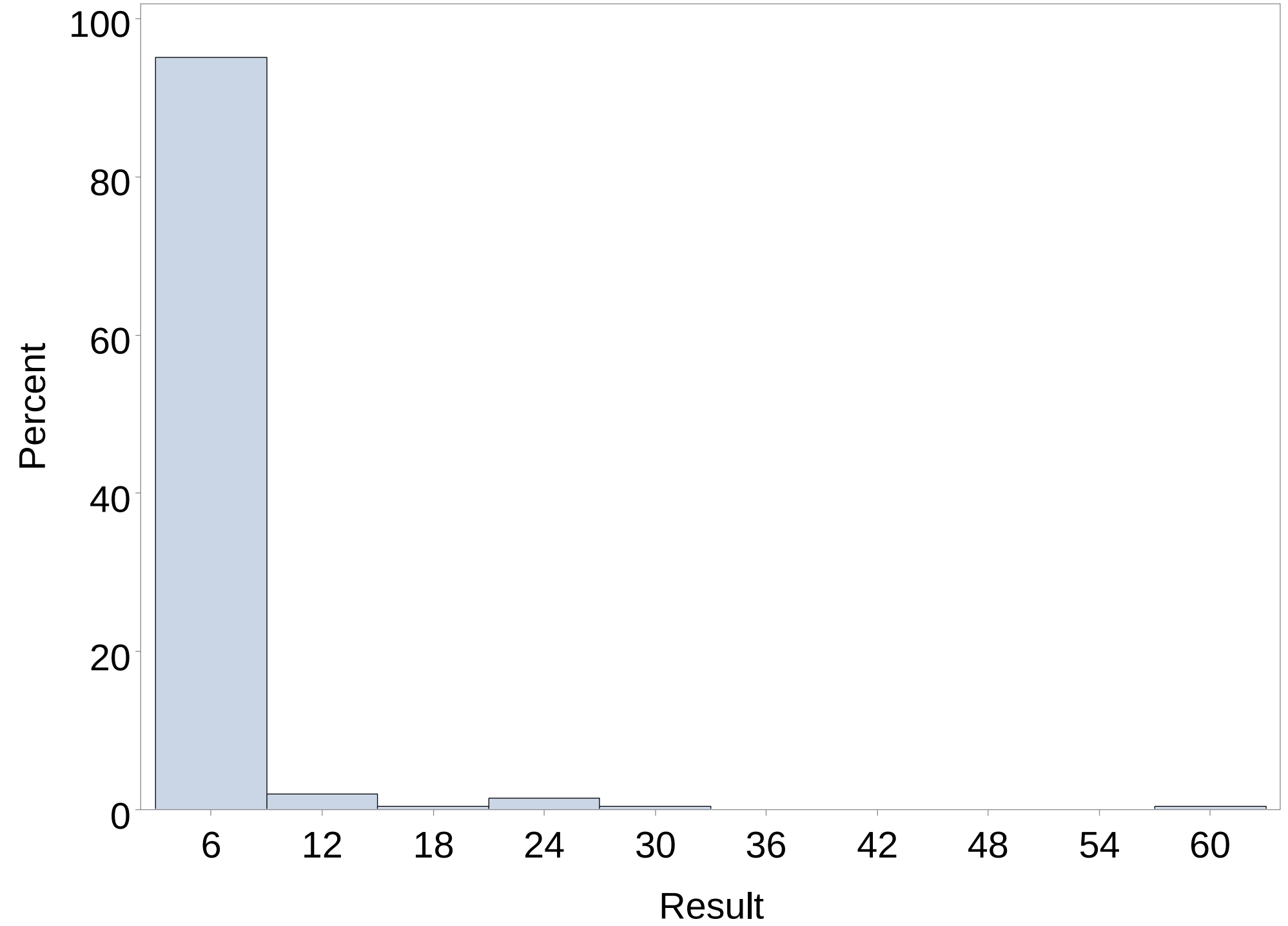
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.54729	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	62.60
99%	26.80
95%	8.78
90%	7.11
75% Q3	4.48
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	3.46

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.46	6501	21.3	6451
3.46	6500	21.4	6409
3.46	6499	26.8	6305
3.46	6498	27.7	6376
3.46	6497	62.6	6342


Parameter=Chlorophyll c (mg/m3) River Kilometer=15.5 Level=Bottom
100
80
60
40
20
0
Percent
6
12
18
24
30
36
42
48
54
60
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=15.5 Level=Surface

Moments			
N	202	**Sum Weights**	202
Mean	6.88255776	**Sum Observations**	1390.27667
Std Deviation	17.9574498	**Variance**	322.470004
Skewness	11.5938235	**Kurtosis**	147.0287
Uncorrected SS	74385.1302	**Corrected SS**	64816.4708
Coeff Variation	260.912446	**Std Error Mean**	1.26348176

Basic Statistical Measures			
Location		**Variability**	
Mean	6.882558	**Std Deviation**	17.95745
Median	3.460000	**Variance**	322.47000
Mode	3.460000	**Range**	238.84000
		Interquartile Range	1.94000

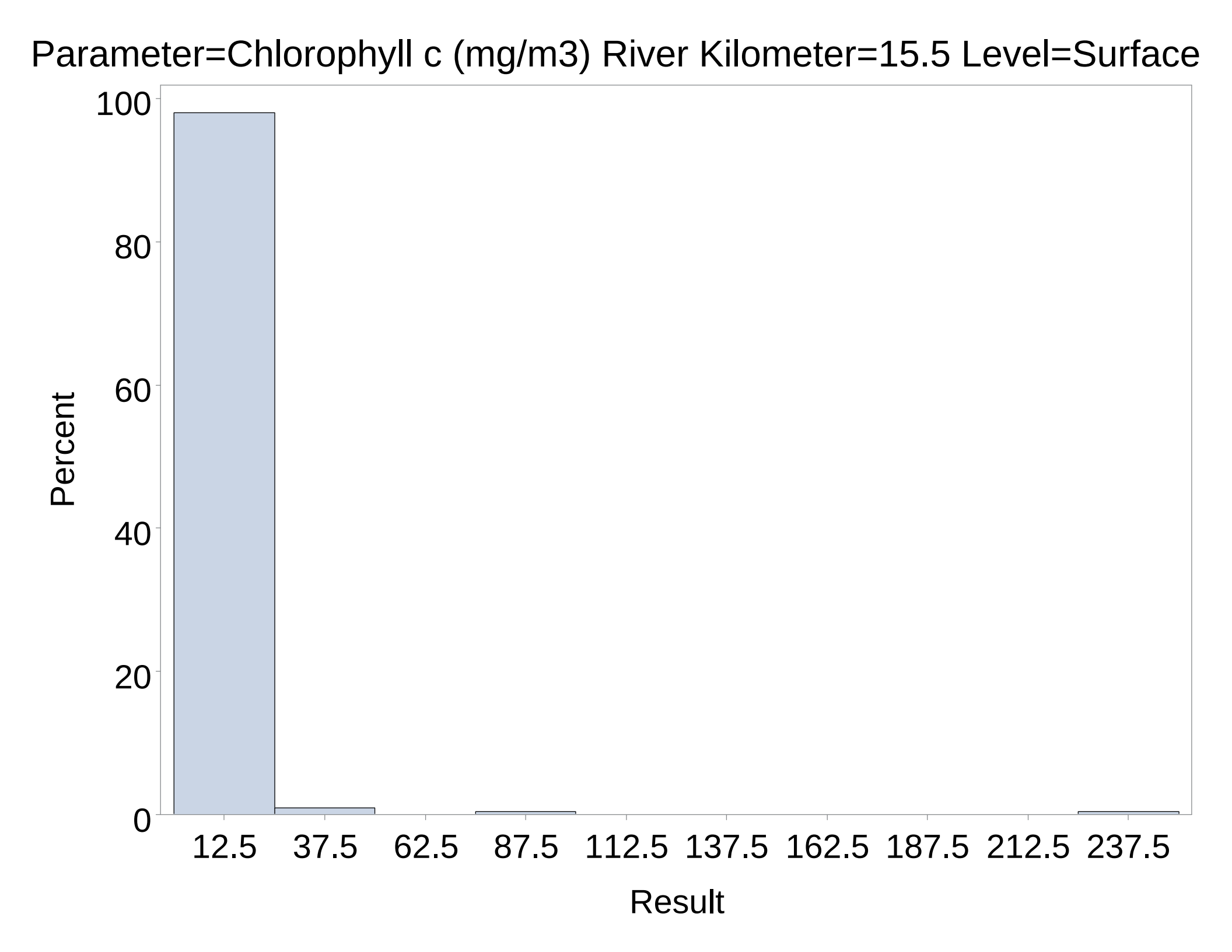
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	5.447295	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	241.00
99%	31.60
95%	14.70
90%	9.59
75% Q3	5.40
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	2.16

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.16	6662	21.9667	6507
3.40	6639	26.0000	6678
3.46	6703	31.6000	6558
3.46	6702	86.2000	6578
3.46	6701	241.0000	6544


Parameter=Chlorophyll c (mg/m3) River Kilometer=15.5 Level=Surface
Percent
100
80
60
40
20
0
12.5
37.5
62.5
87.5
112.5
137.5
162.5
187.5
212.5
237.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=23.6 Level=Bottom

Moments			
N	202	**Sum Weights**	202
Mean	5.09351485	**Sum Observations**	1028.89
Std Deviation	3.84834901	**Variance**	14.8097901
Skewness	3.71965808	**Kurtosis**	16.8649784
Uncorrected SS	8217.4343	**Corrected SS**	2976.7678
Coeff Variation	75.5538978	**Std Error Mean**	0.27076889

Basic Statistical Measures			
Location		**Variability**	
Mean	5.093515	**Std Deviation**	3.84835
Median	3.460000	**Variance**	14.80979
Mode	3.460000	**Range**	27.54000
		Interquartile Range	1.08000

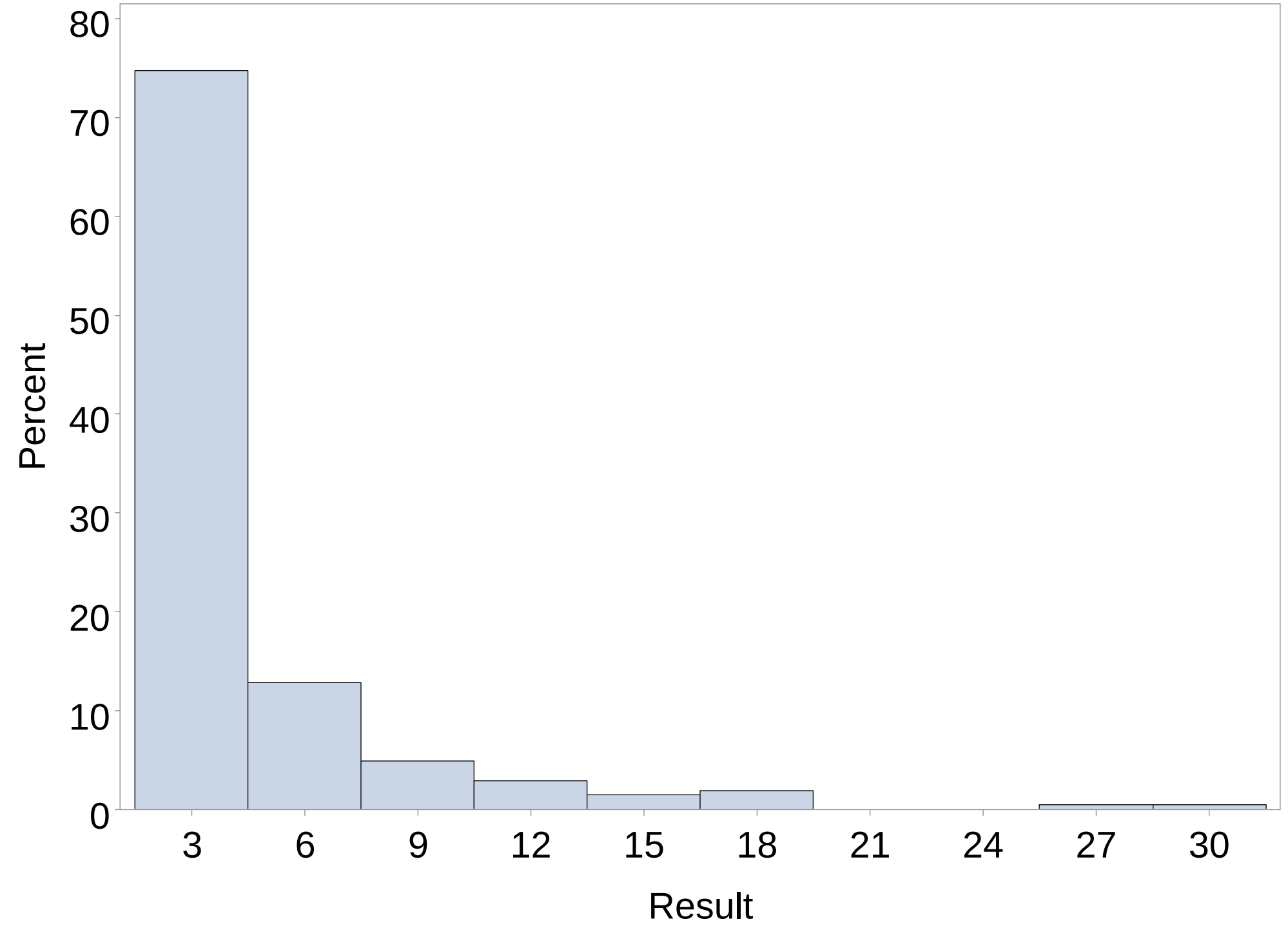
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.8113	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.00
99%	19.30
95%	12.90
90%	8.97
75% Q3	4.54
50% Median	3.46
25% Q1	3.46
10%	3.46
5%	3.46
1%	3.46
0% Min	3.46

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.46	6905	17.6	6893
3.46	6904	18.4	6855
3.46	6903	19.3	6807
3.46	6902	27.1	6709
3.46	6901	31.0	6710


Parameter=Chlorophyll c (mg/m3) River Kilometer=23.6 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=23.6 Level=Surface

Moments			
N	202	**Sum Weights**	202
Mean	5.27069307	**Sum Observations**	1064.68
Std Deviation	4.34505657	**Variance**	18.8795166
Skewness	5.30333286	**Kurtosis**	38.9914668
Uncorrected SS	9406.38433	**Corrected SS**	3794.78284
Coeff Variation	82.4380497	**Std Error Mean**	0.30571711

Basic Statistical Measures			
Location		**Variability**	
Mean	5.270693	**Std Deviation**	4.34506
Median	3.480000	**Variance**	18.87952
Mode	3.460000	**Range**	42.02000
		Interquartile Range	1.53000

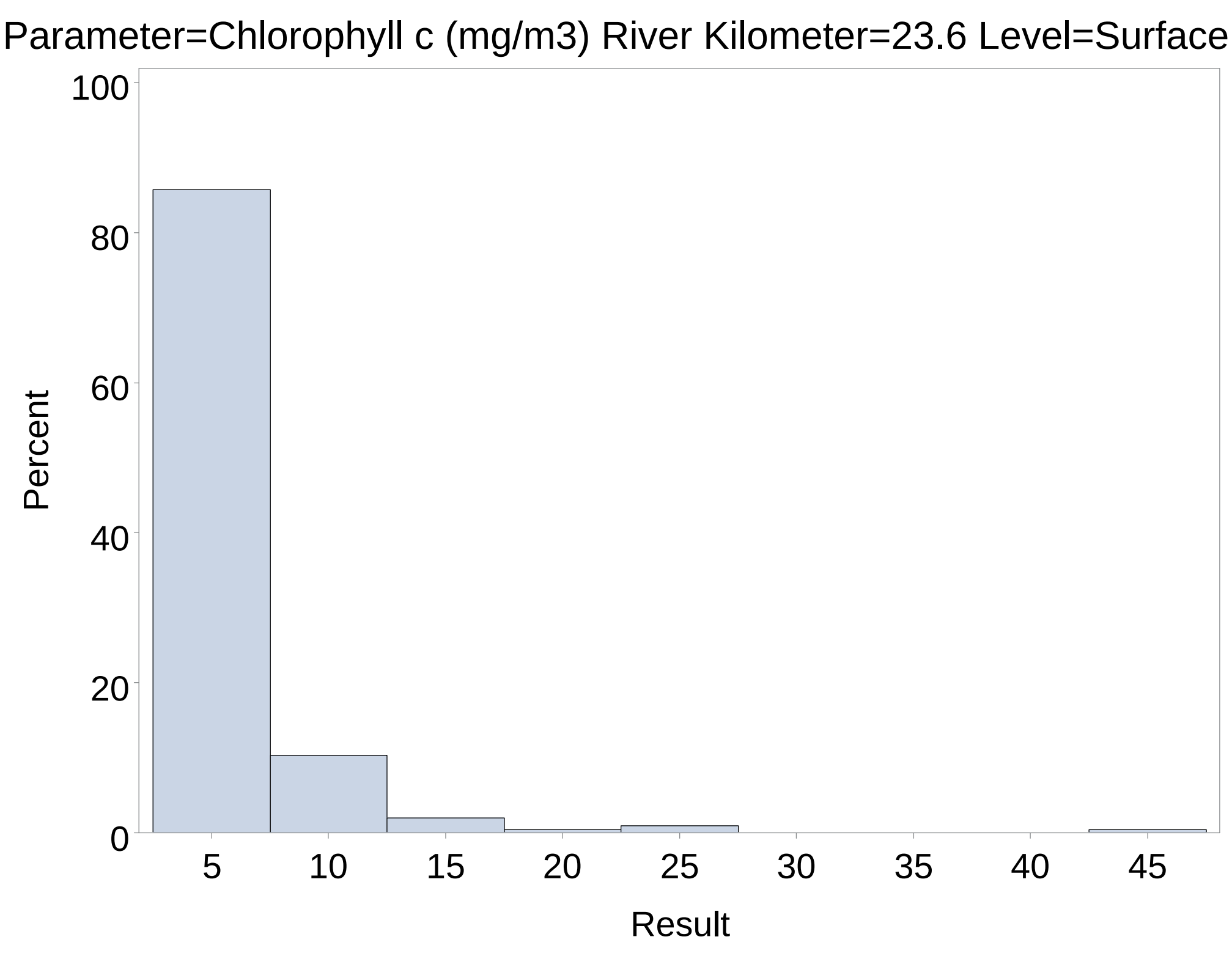
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.24043	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	10251.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45.2000
99%	23.7667
95%	12.0000
90%	9.1100
75% Q3	4.9900
50% Median	3.4800
25% Q1	3.4600
10%	3.4600
5%	3.4600
1%	3.4600
0% Min	3.1800

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.18	7045	17.4000	6941
3.46	7107	18.3000	7009
3.46	7106	23.7667	6911
3.46	7105	25.8000	7096
3.46	7104	45.2000	7057


Parameter=Chlorophyll c (mg/m3) River Kilometer=23.6 Level=Surface
100
80
60
40
20
0
Percent
5
10
15
20
25
30
35
40
45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=30.7 Level=Bottom

Moments			
N	200	**Sum Weights**	200
Mean	5.0733	**Sum Observations**	1014.66
Std Deviation	4.73254063	**Variance**	22.3969408
Skewness	6.04762816	**Kurtosis**	44.0618522
Uncorrected SS	9604.6658	**Corrected SS**	4456.99122
Coeff Variation	93.2832797	**Std Error Mean**	0.33464116

Basic Statistical Measures			
Location		**Variability**	
Mean	5.073300	**Std Deviation**	4.73254
Median	3.460000	**Variance**	22.39694
Mode	3.460000	**Range**	42.44000
		Interquartile Range	1.16500

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.16042	**Pr > |t|**	<.0001
Sign	**M**	100	**Pr >= |M|**	<.0001
Signed Rank	**S**	10050	**Pr >= |S|**	<.0001

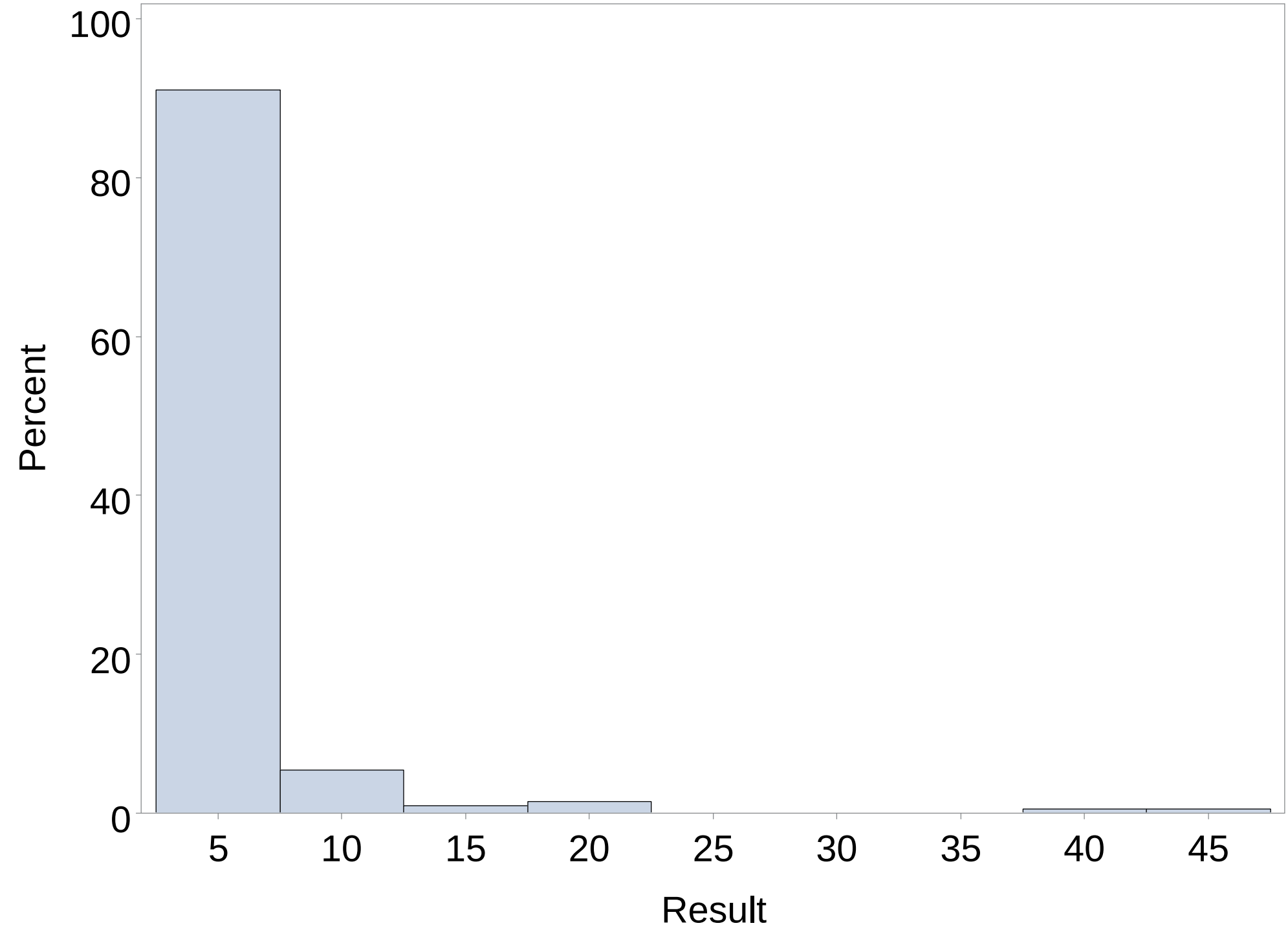
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45.900
99%	30.600
95%	10.700
90%	7.260
75% Q3	4.625
50% Median	3.460
25% Q1	3.460
10%	3.460
5%	3.460
1%	3.460
0% Min	3.460

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.46	7308	20.4	7260
3.46	7307	20.5	7113
3.46	7306	20.6	7297
3.46	7305	40.6	7143
3.46	7304	45.9	7294

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.50	100.00


Parameter=Chlorophyll c (mg/m3) River Kilometer=30.7 Level=Bottom
Percent
100
80
60
40
20
0
5
10
15
20
25
30
35
40
45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=30.7 Level=Surface

Moments			
N	200	**Sum Weights**	200
Mean	4.86628333	**Sum Observations**	973.256667
Std Deviation	3.6034895	**Variance**	12.9851366
Skewness	4.56093167	**Kurtosis**	24.5857808
Uncorrected SS	7320.18488	**Corrected SS**	2584.04218
Coeff Variation	74.0501376	**Std Error Mean**	0.25480519

Basic Statistical Measures			
Location		**Variability**	
Mean	4.866283	**Std Deviation**	3.60349
Median	3.460000	**Variance**	12.98514
Mode	3.460000	**Range**	26.34000
		Interquartile Range	0.96500

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.09805	**Pr > |t|**	<.0001
Sign	**M**	100	**Pr >= |M|**	<.0001
Signed Rank	**S**	10050	**Pr >= |S|**	<.0001

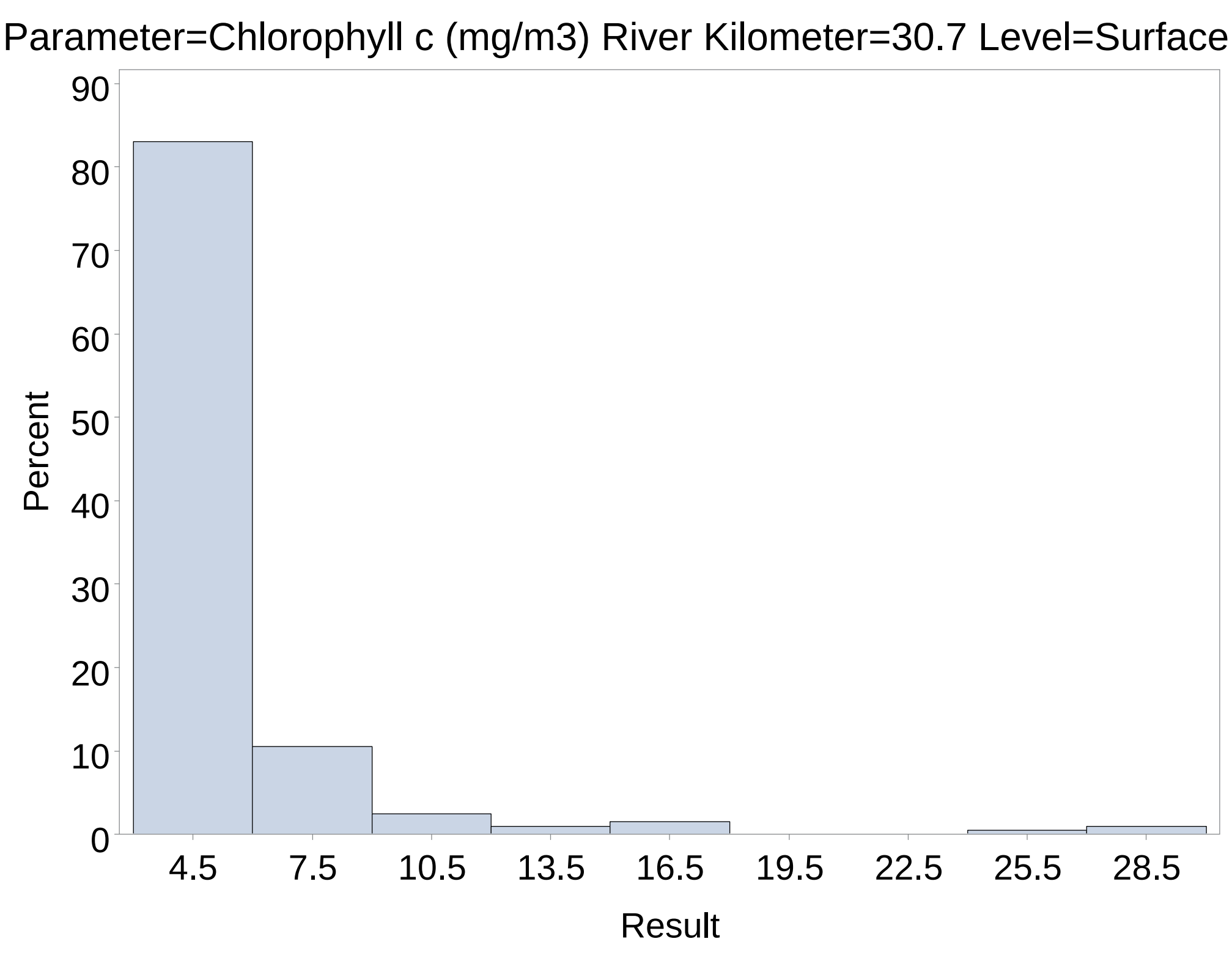
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.80000
99%	26.31667
95%	10.43500
90%	7.46667
75% Q3	4.42500
50% Median	3.46000
25% Q1	3.46000
10%	3.46000
5%	3.46000
1%	3.46000
0% Min	3.46000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chlorophyll c (mg/m3) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.46	7509	15.8000	7459
3.46	7508	17.3000	7315
3.46	7507	24.2000	7460
3.46	7506	28.4333	7314
3.46	7505	29.8000	7344

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.50	100.00


Parameter=Chlorophyll c (mg/m3) River Kilometer=30.7 Level=Surface
Percent
90
80
70
60
50
40
30
20
10
0
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	14356.7566	**Sum Observations**	3833254
Std Deviation	3517.23867	**Variance**	12370967.9
Skewness	-0.4250474	**Kurtosis**	0.65635369
Uncorrected SS	5.83238E10	**Corrected SS**	3290677449
Coeff Variation	24.498839	**Std Error Mean**	215.251511

Basic Statistical Measures			
Location		**Variability**	
Mean	14356.76	**Std Deviation**	3517
Median	14505.00	**Variance**	12370968
Mode	16000.00	**Range**	23916
		Interquartile Range	4696

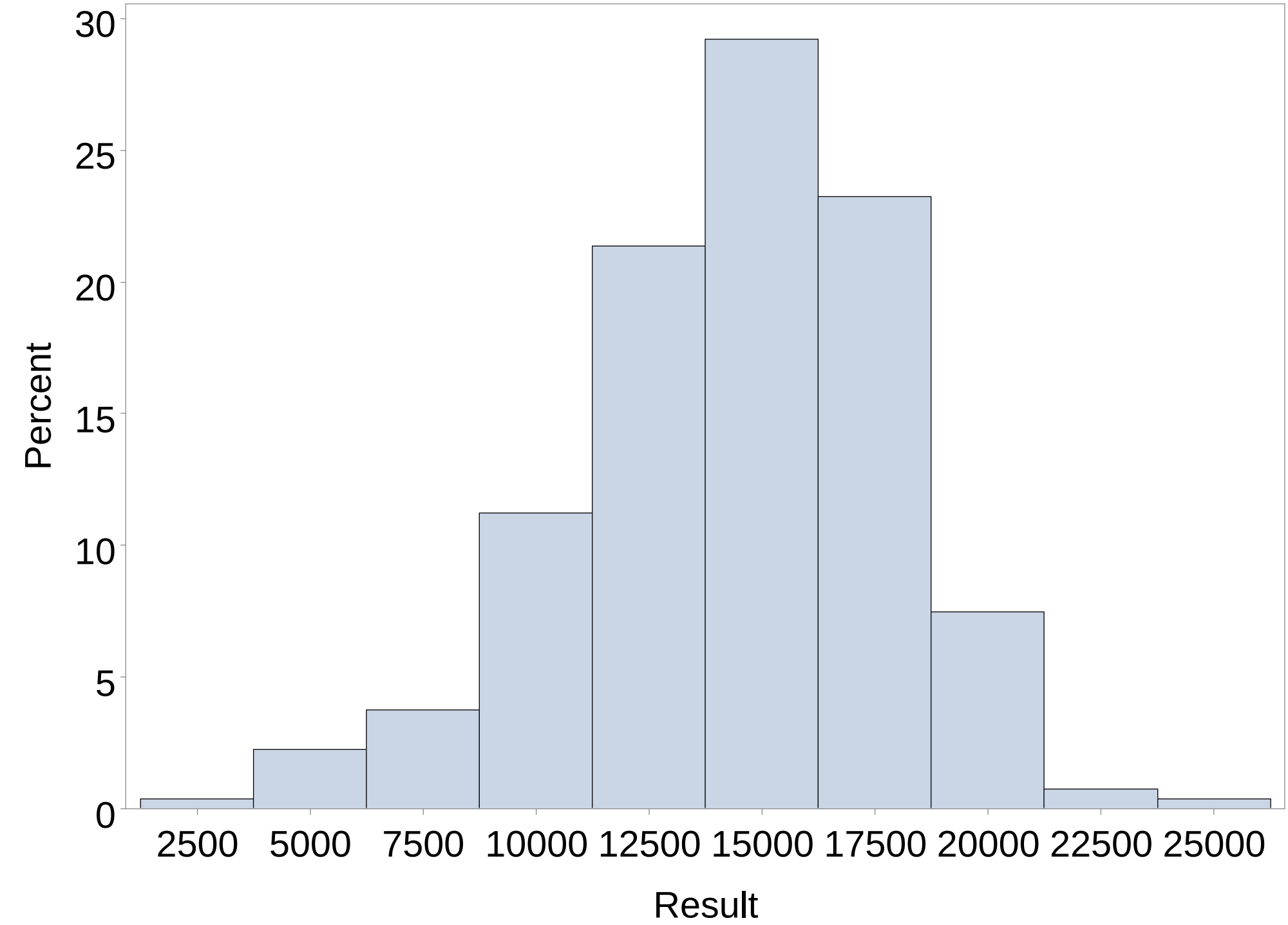
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	66.69759	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25615
99%	22067
95%	19000
90%	18410
75% Q3	16819
50% Median	14505
25% Q1	12123
10%	9638
5%	8200
1%	5000
0% Min	1699

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1699	7591	20513	7626
3762	7615	20982	7776
5000	7528	22067	7650
5541	7605	23645	7651
5770	7557	25615	7660


Parameter=Chloride (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
30
25
20
15
10
5
0
2500
5000
7500
10000
12500
15000
17500
20000
22500
25000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	13049.794	**Sum Observations**	3484295
Std Deviation	4461.65498	**Variance**	19906365.1
Skewness	-0.4832156	**Kurtosis**	0.0001847
Uncorrected SS	5.07644E10	**Corrected SS**	5295093122
Coeff Variation	34.1894667	**Std Error Mean**	273.04885

Basic Statistical Measures			
Location		**Variability**	
Mean	13049.79	**Std Deviation**	4462
Median	13732.00	**Variance**	19906365
Mode	15000.00	**Range**	24377
		Interquartile Range	6191

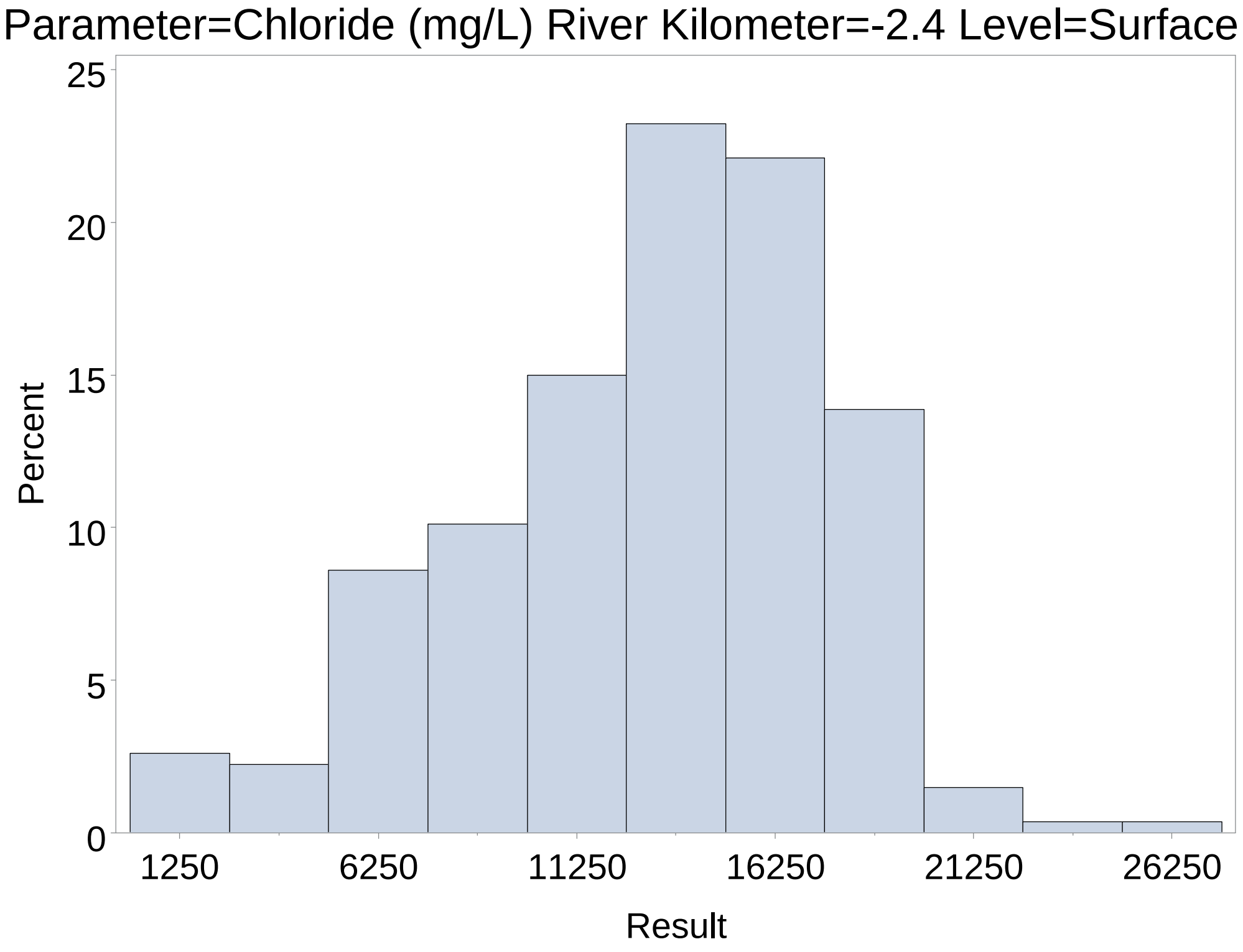
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.79289	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25377
99%	20746
95%	18893
90%	18179
75% Q3	16309
50% Median	13732
25% Q1	10118
10%	6342
5%	5000
1%	1450
0% Min	1000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1000	7851	20606	8043
1420	7978	20682	7906
1450	7858	20746	7918
1540	7837	24938	7917
2238	7872	25377	7927


Parameter=Chloride (mg/L) River Kilometer=-2.4 Level=Surface
25
20
15
10
5
0
Percent
1250
6250
11250
16250
21250
26250
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	12173.291	**Sum Observations**	3262442
Std Deviation	4033.27449	**Variance**	16267303.1
Skewness	-0.4031745	**Kurtosis**	0.48785137
Uncorrected SS	4.4058E10	**Corrected SS**	4343369923
Coeff Variation	33.1321618	**Std Error Mean**	246.371451

Basic Statistical Measures			
Location		**Variability**	
Mean	12173.29	**Std Deviation**	4033
Median	12659.50	**Variance**	16267303
Mode	14000.00	**Range**	23503
		Interquartile Range	5265

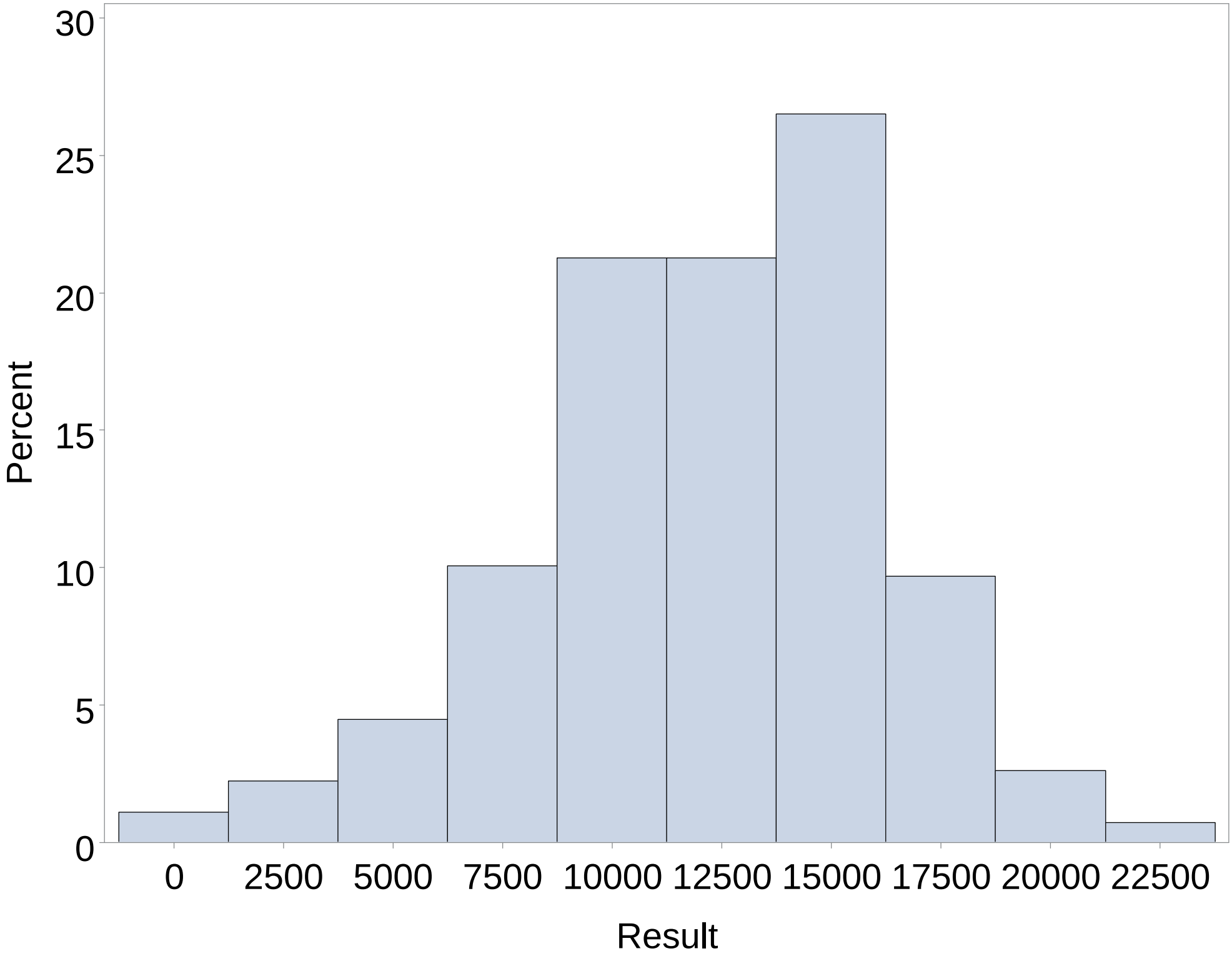
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.41032	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	23528.0
99%	21249.0
95%	17963.0
90%	16731.0
75% Q3	15000.0
50% Median	12659.5
25% Q1	9735.0
10%	7269.0
5%	4148.0
1%	839.0
0% Min	25.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
25	8062	21000	8091
30	8060	21039	8190
839	8246	21249	8184
1880	8165	22755	8185
1930	8150	23528	8195


30
25
20
15
10
5
0
Percent
0
2500
5000
7500
10000
12500
15000
17500
20000
22500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	9677.71306	**Sum Observations**	2593627.1
Std Deviation	5122.30353	**Variance**	26237993.5
Skewness	-0.1456894	**Kurtosis**	-0.67762
Uncorrected SS	3.21059E10	**Corrected SS**	7005544255
Coeff Variation	52.9288635	**Std Error Mean**	312.894488

Basic Statistical Measures			
Location		**Variability**	
Mean	9677.71	**Std Deviation**	5122
Median	10441.00	**Variance**	26237993
Mode	13000.00	**Range**	24337
		Interquartile Range	7680

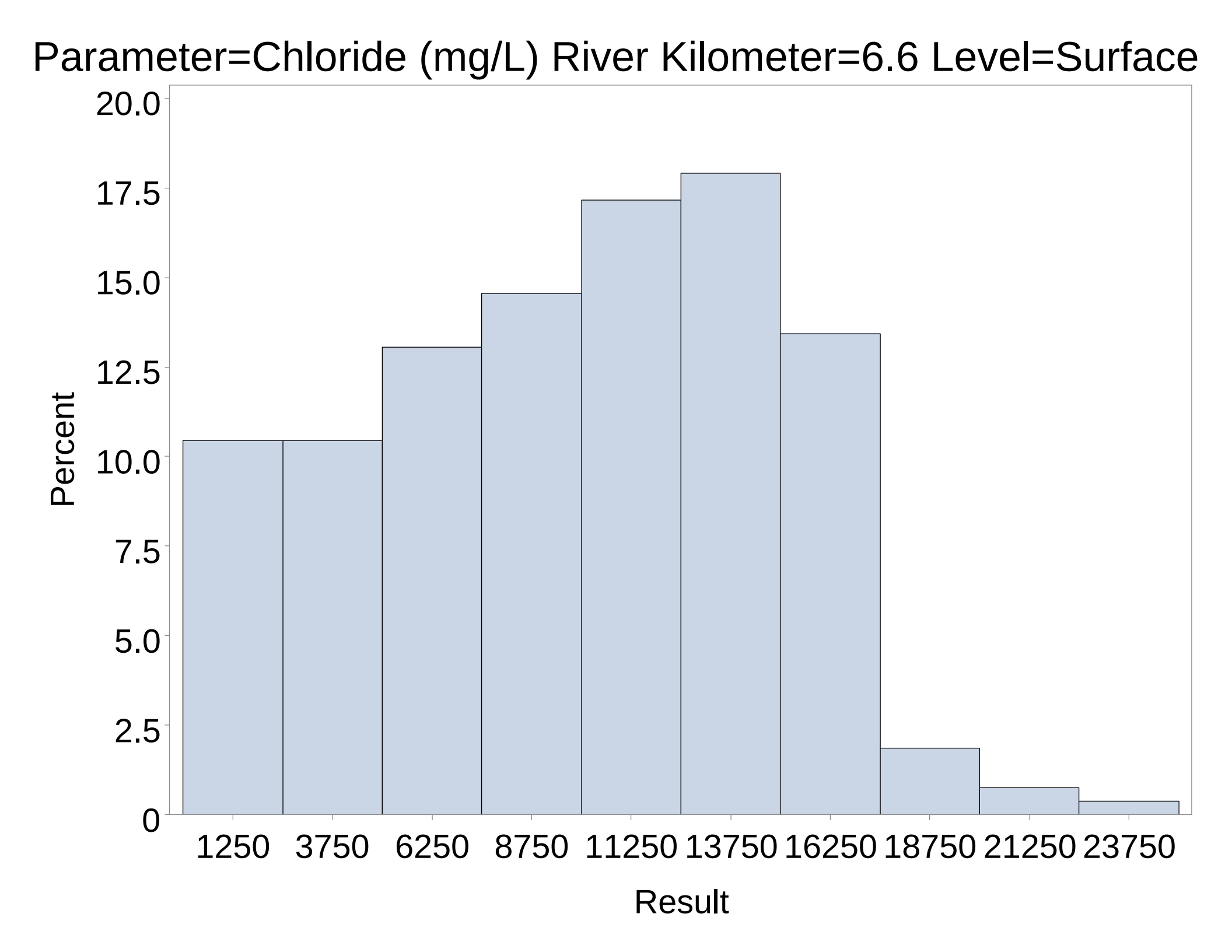
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.92964	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24360.0
99%	21354.0
95%	17036.0
90%	16000.0
75% Q3	13568.5
50% Median	10441.0
25% Q1	5888.5
10%	2413.0
5%	389.0
1%	29.0
0% Min	23.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
23.0	8330	18340	8369
28.0	8331	18556	8560
29.0	8328	21354	8453
74.5	8514	22311	8458
78.6	8373	24360	8463


Parameter=Chloride (mg/L) River Kilometer=6.6 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
1250
3750
6250
8750
11250
13750
16250
18750
21250
23750
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	4343.9191	**Sum Observations**	1159826.4
Std Deviation	4043.19861	**Variance**	16347455
Skewness	0.61912064	**Kurtosis**	-0.6055133
Uncorrected SS	9386615082	**Corrected SS**	4348423029
Coeff Variation	93.0772078	**Std Error Mean**	247.439737

Basic Statistical Measures			
Location		**Variability**	
Mean	4343.919	**Std Deviation**	4043
Median	3441.000	**Variance**	16347455
Mode	6100.000	**Range**	16210
		Interquartile Range	7164

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.55546	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

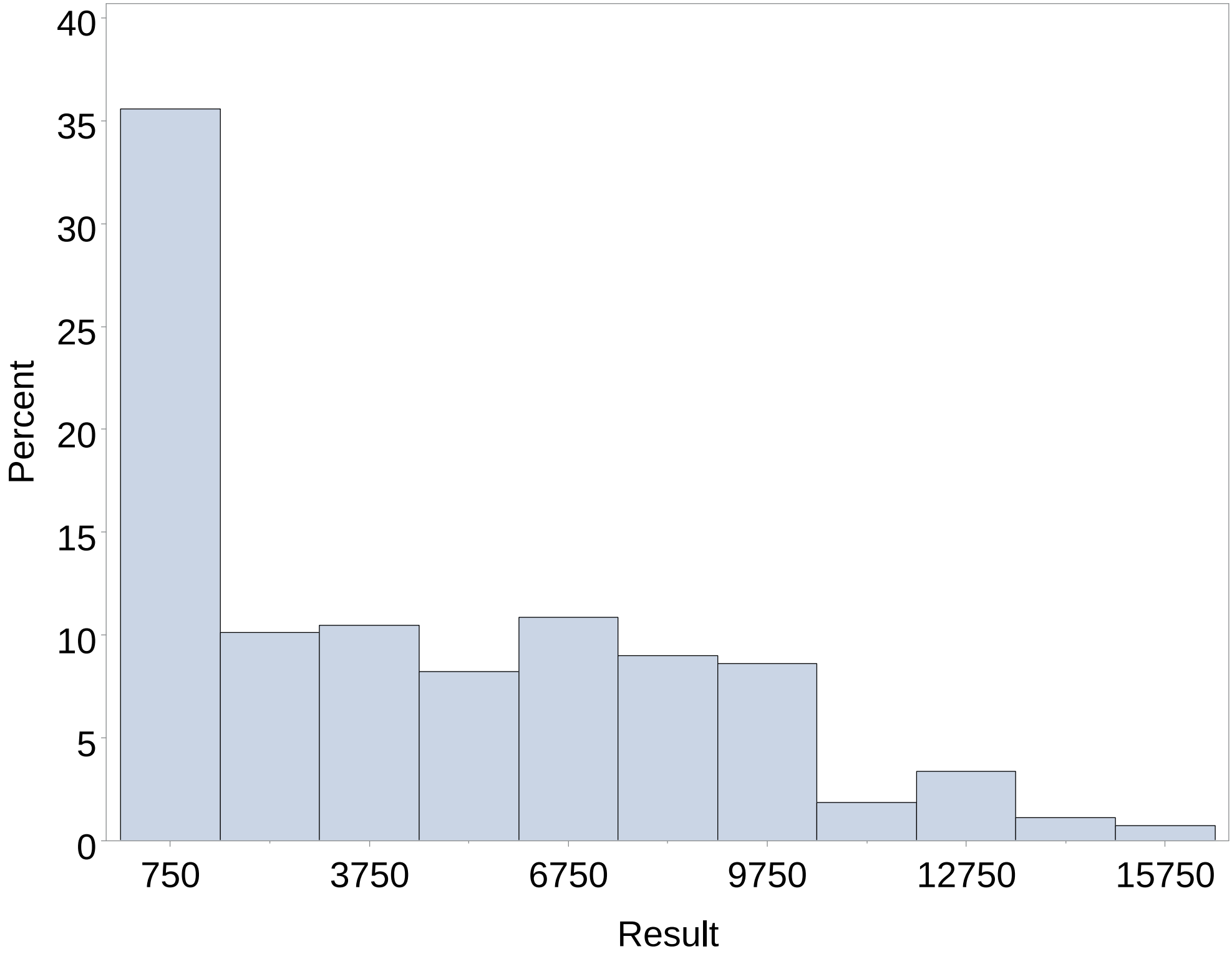
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16218.0
99%	14370.0
95%	12051.0
90%	9880.0
75% Q3	7387.0
50% Median	3441.0
25% Q1	223.0
10%	27.0
5%	17.9
1%	11.1
0% Min	7.7

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.7	8598	13573	8768
10.0	8594	14000	8624
11.1	8832	14370	8636
12.0	8597	15245	8731
13.1	8676	16218	8720

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.37	100.00


40
35
30
25
20
15
10
5
0
Percent
750
3750
6750
9750
12750
15750
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	3636.70669	**Sum Observations**	978274.1
Std Deviation	3817.66465	**Variance**	14574563.4
Skewness	0.93661193	**Kurtosis**	0.04659199
Uncorrected SS	7463678956	**Corrected SS**	3905982991
Coeff Variation	104.975875	**Std Error Mean**	232.767122

Basic Statistical Measures			
Location		**Variability**	
Mean	3636.707	**Std Deviation**	3818
Median	2454.000	**Variance**	14574563
Mode	28.900	**Range**	16758
		Interquartile Range	5954

Note: The mode displayed is the smallest of 10 modes with a count of 2.

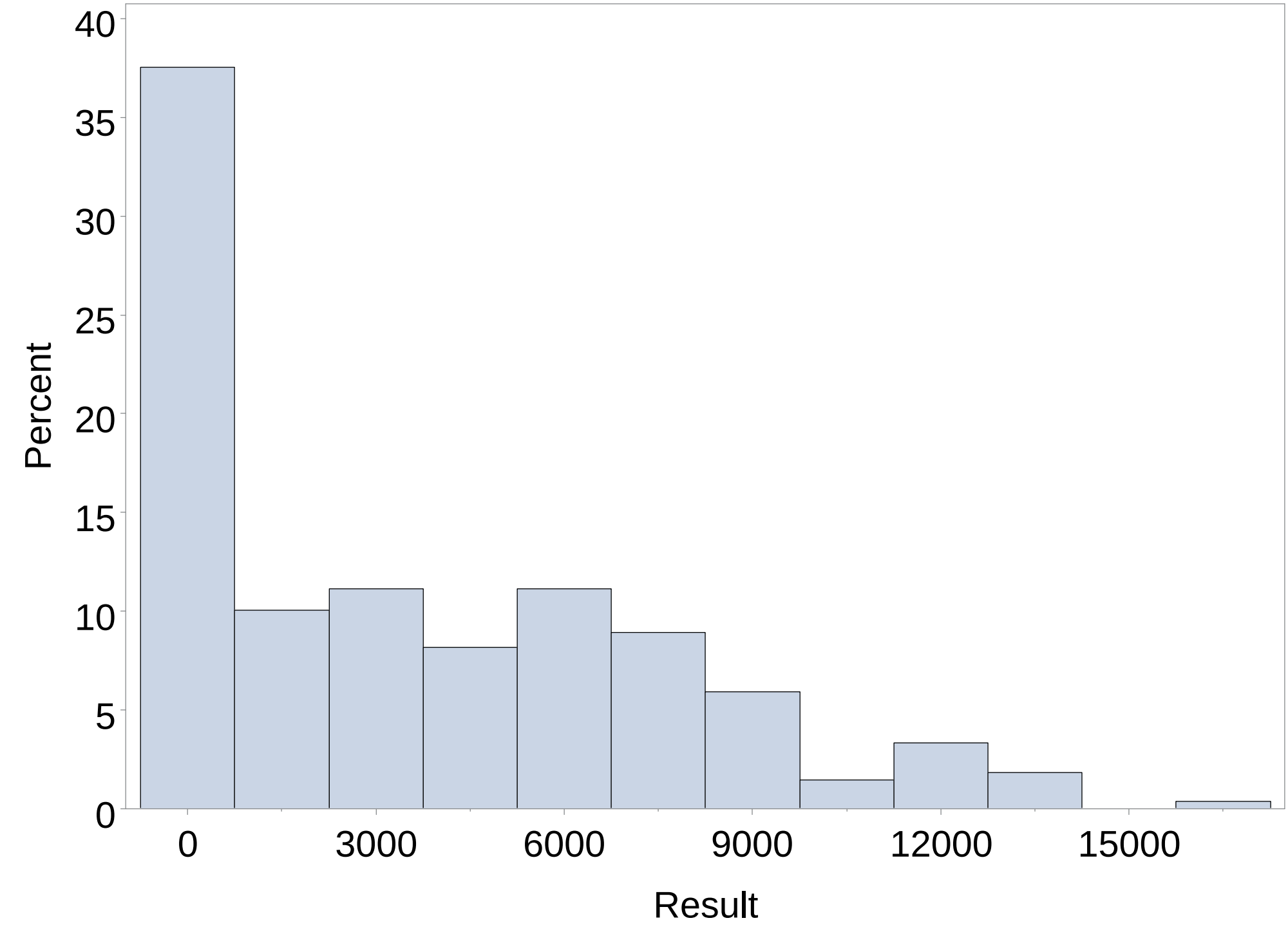
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.6238	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16766.0
99%	14000.0
95%	11444.0
90%	9038.0
75% Q3	6144.0
50% Median	2454.0
25% Q1	190.0
10%	25.4
5%	17.7
1%	10.6
0% Min	7.7

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.7	8867	13000	8894
9.8	8863	13940	8905
10.6	9101	14000	8893
12.0	8866	14047	9000
12.8	8944	16766	8989


Parameter=Chloride (mg/L) River Kilometer=15.5 Level=Surface
Percent
40
35
30
25
20
15
10
5
0
0
3000
6000
9000
12000
15000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	1017.0422	**Sum Observations**	272567.31
Std Deviation	1881.86267	**Variance**	3541407.12
Skewness	2.40377356	**Kurtosis**	5.73131836
Uncorrected SS	1222768159	**Corrected SS**	945555702
Coeff Variation	185.032899	**Std Error Mean**	114.953059

Basic Statistical Measures			
Location		**Variability**	
Mean	1017.042	**Std Deviation**	1882
Median	54.500	**Variance**	3541407
Mode	15.000	**Range**	9799
		Interquartile Range	999.45000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

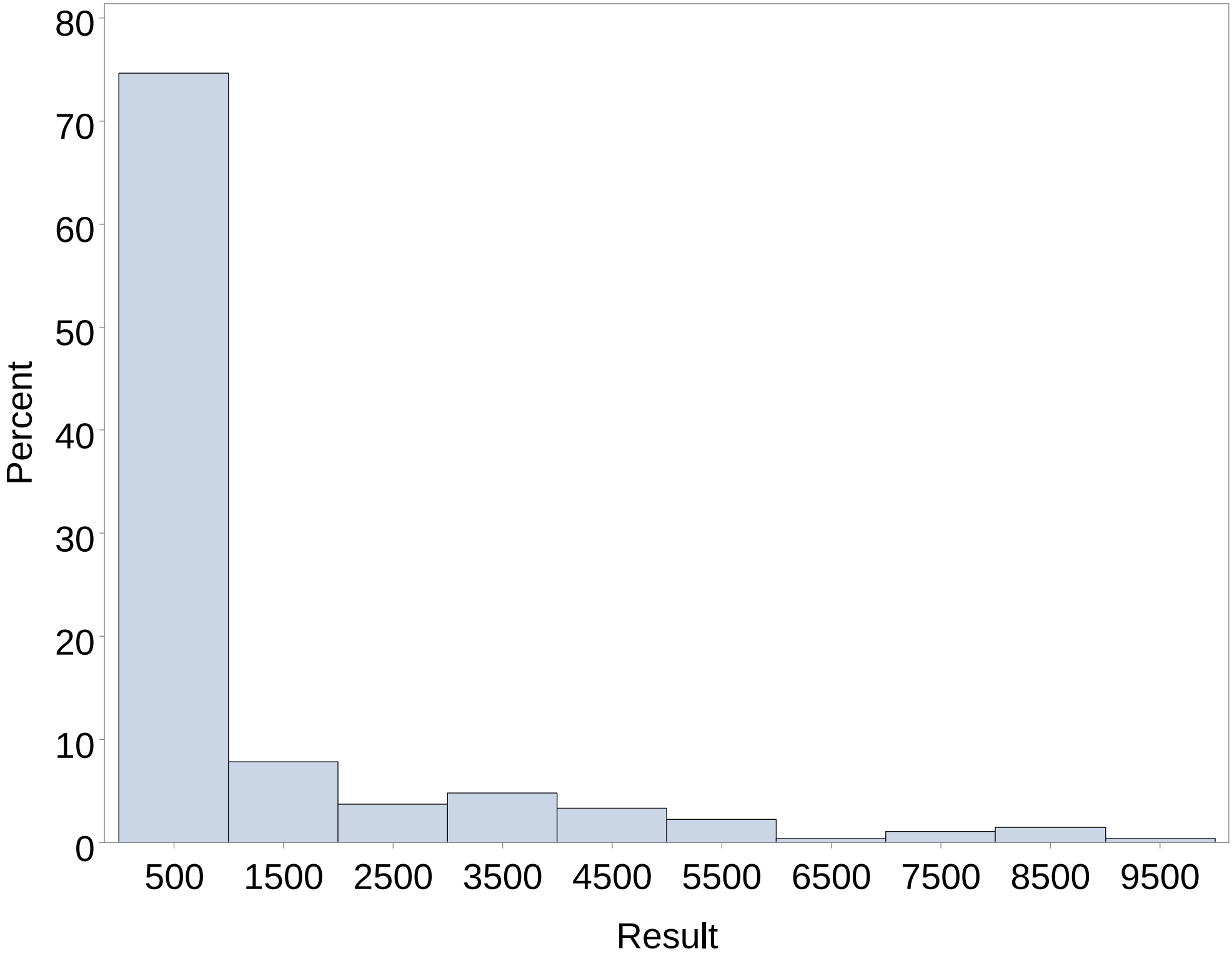
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.847457	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9800.00
99%	8500.00
95%	5200.00
90%	3566.00
75% Q3	1027.00
50% Median	54.50
25% Q1	27.55
10%	17.40
5%	15.00
1%	8.40
0% Min	1.21

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.21	9312	8180	9268
7.60	9135	8481	9257
8.40	9131	8500	9162
10.70	9369	8722	9305
11.00	9134	9800	9161


80
70
60
50
40
30
20
10
0
Percent
500
1500
2500
3500
4500
5500
6500
7500
8500
9500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	872.414424	**Sum Observations**	234679.48
Std Deviation	1712.5567	**Variance**	2932850.46
Skewness	2.77442903	**Kurtosis**	8.04303371
Uncorrected SS	990741686	**Corrected SS**	786003923
Coeff Variation	196.300824	**Std Error Mean**	104.416425

Basic Statistical Measures			
Location		**Variability**	
Mean	872.4144	**Std Deviation**	1713
Median	52.9000	**Variance**	2932850
Mode	20.0000	**Range**	9099
		Interquartile Range	762.60000

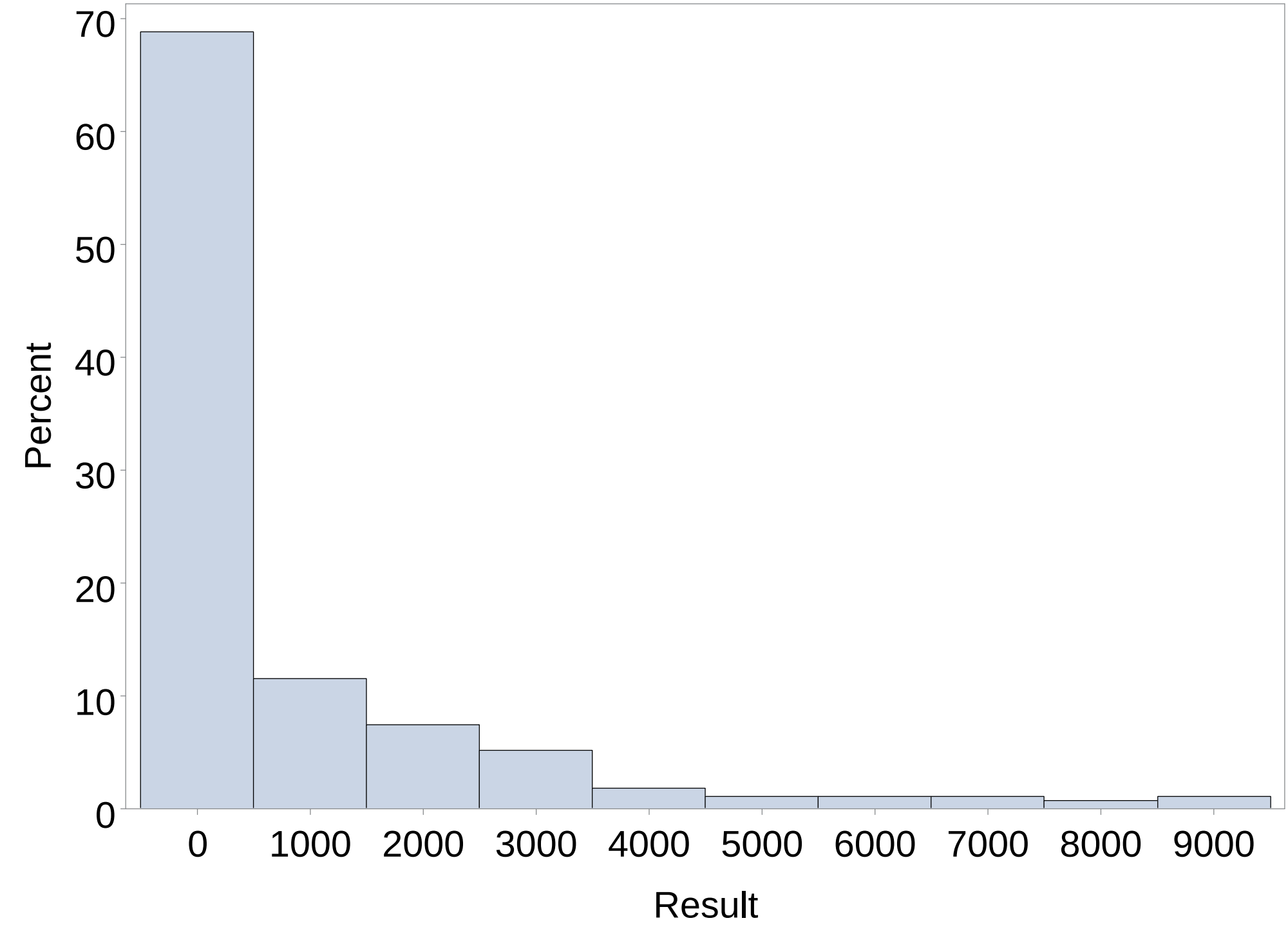
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.355146	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9100.00
99%	8753.00
95%	4566.00
90%	2859.00
75% Q3	790.00
50% Median	52.90
25% Q1	27.40
10%	16.60
5%	14.30
1%	8.30
0% Min	1.18

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.18	9581	7900	9431
7.50	9404	7952	9537
8.30	9400	8753	9574
10.40	9638	8754	9526
11.00	9403	9100	9430


Parameter=Chloride (mg/L) River Kilometer=23.6 Level=Surface
Percent
70
60
50
40
30
20
10
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	104.296142	**Sum Observations**	27847.07
Std Deviation	303.048422	**Variance**	91838.346
Skewness	5.61946847	**Kurtosis**	35.8451733
Uncorrected SS	27333342	**Corrected SS**	24429000
Coeff Variation	290.565322	**Std Error Mean**	18.5462622

Basic Statistical Measures			
Location		**Variability**	
Mean	104.2961	**Std Deviation**	303.04842
Median	33.1000	**Variance**	91838
Mode	20.0000	**Range**	2739
		Interquartile Range	24.60000

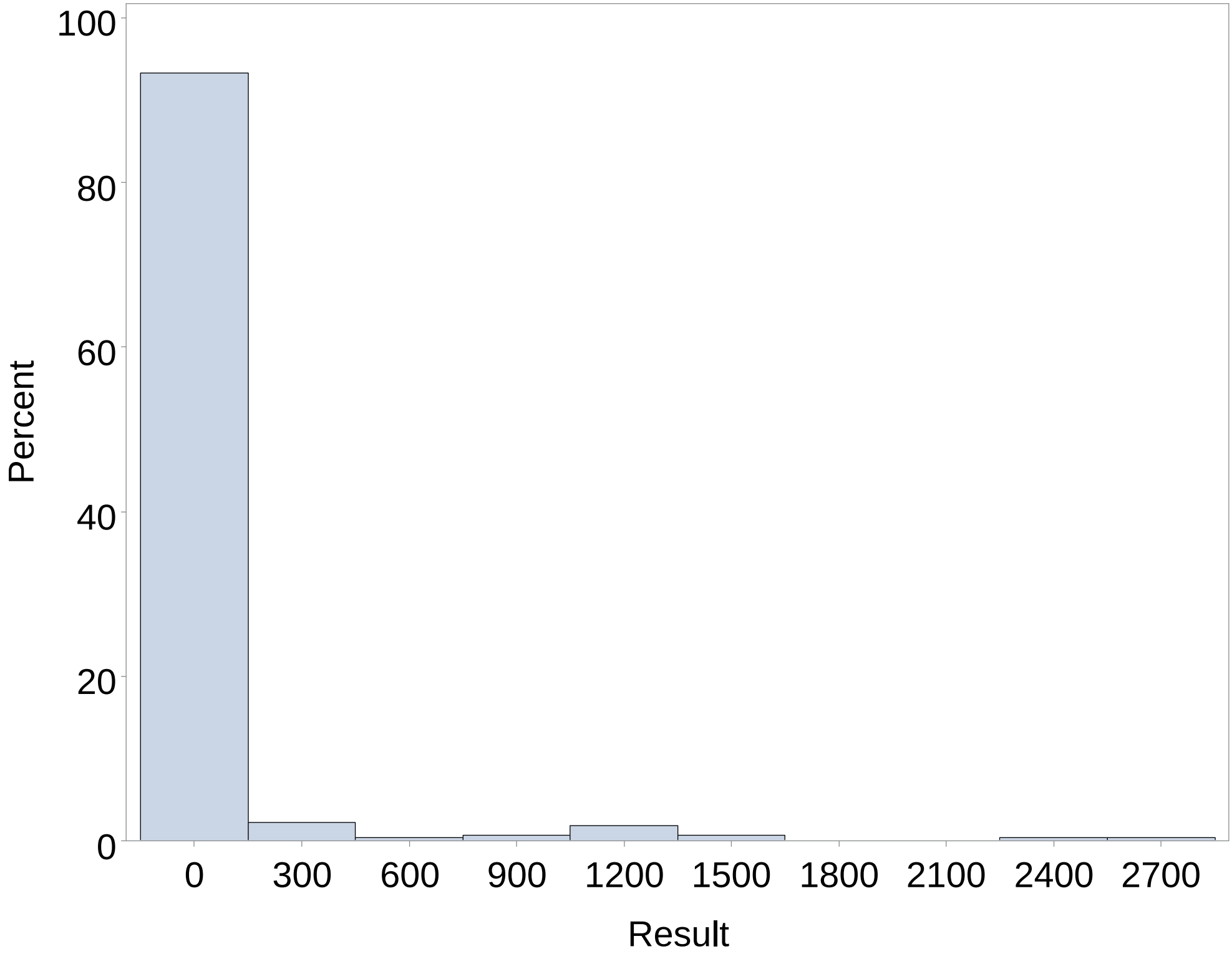
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	5.623567	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2746.0
99%	1541.0
95%	330.0
90%	120.0
75% Q3	49.0
50% Median	33.1
25% Q1	24.4
10%	16.6
5%	14.0
1%	10.5
0% Min	7.2

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.2	9673	1250	9710
8.8	9669	1436	9831
10.5	9905	1541	9805
12.0	9672	2250	9794
12.9	9750	2746	9842


100
80
60
40
20
0
Percent
0
300
600
900
1200
1500
1800
2100
2400
2700
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	107.478045	**Sum Observations**	28804.116
Std Deviation	343.905949	**Variance**	118271.302
Skewness	7.13955283	**Kurtosis**	63.4721718
Uncorrected SS	34674247.6	**Corrected SS**	31578437.5
Coeff Variation	319.977861	**Std Error Mean**	21.0073993

Basic Statistical Measures			
Location		**Variability**	
Mean	107.4780	**Std Deviation**	343.90595
Median	33.7500	**Variance**	118271
Mode	38.0000	**Range**	3893
		Interquartile Range	22.75000

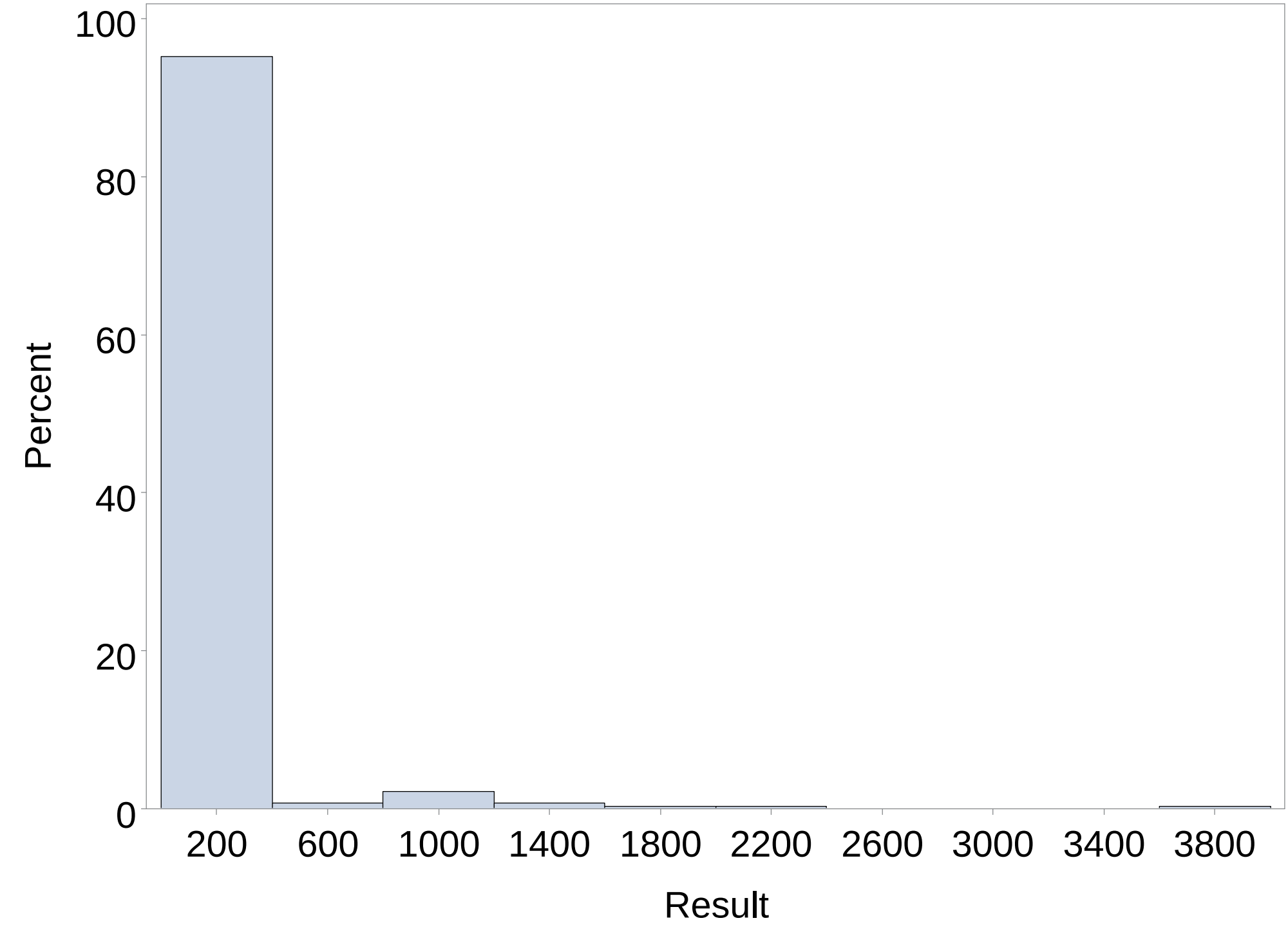
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	5.116199	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3900.00
99%	1817.00
95%	303.00
90%	117.00
75% Q3	47.75
50% Median	33.75
25% Q1	25.00
10%	16.80
5%	14.20
1%	10.60
0% Min	7.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Chloride (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.3	9940	1360	10073
8.8	9936	1419	10099
10.6	10173	1817	10062
12.0	9939	2169	10110
12.8	10018	3900	9966


Parameter=Chloride (mg/L) River Kilometer=30.7 Level=Surface
100
80
60
40
20
0
Percent
200
600
1000
1400
1800
2200
2600
3000
3400
3800
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=-2.4 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	44.0786517	**Sum Observations**	11769
Std Deviation	38.5250308	**Variance**	1484.178
Skewness	2.15823179	**Kurtosis**	5.89041133
Uncorrected SS	913553	**Corrected SS**	394791.348
Coeff Variation	87.4006563	**Std Error Mean**	2.3576936

Basic Statistical Measures			
Location		**Variability**	
Mean	44.07865	**Std Deviation**	38.52503
Median	30.00000	**Variance**	1484
Mode	20.00000	**Range**	235.00000
		Interquartile Range	40.00000

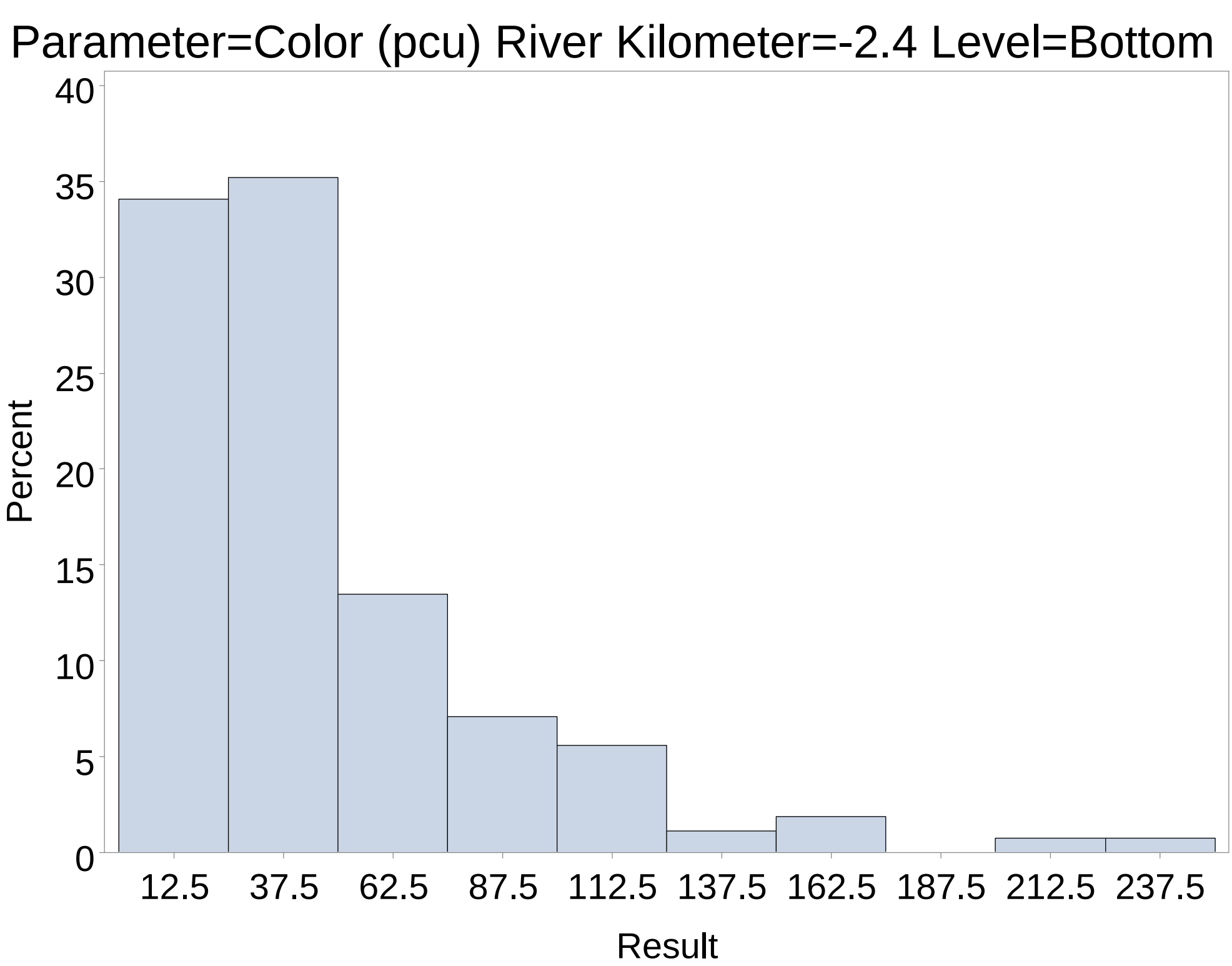
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.69567	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	240
99%	200
95%	120
90%	100
75% Q3	60
50% Median	30
25% Q1	20
10%	10
5%	10
1%	5
0% Min	5

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	10324	170	10248
5	10323	200	10249
5	10318	200	10284
5	10317	225	10294
5	10235	240	10270


Parameter=Color (pcu) River Kilometer=-2.4 Level=Bottom
Percent
0
5
10
15
20
25
30
35
40
12.5
37.5
62.5
87.5
112.5
137.5
162.5
187.5
212.5
237.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=-2.4 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	56.8014981	**Sum Observations**	15166
Std Deviation	59.0544536	**Variance**	3487.42849
Skewness	2.22605378	**Kurtosis**	6.0280147
Uncorrected SS	1789107.5	**Corrected SS**	927655.979
Coeff Variation	103.966366	**Std Error Mean**	3.61407387

Basic Statistical Measures			
Location		**Variability**	
Mean	56.80150	**Std Deviation**	59.05445
Median	30.00000	**Variance**	3487
Mode	20.00000	**Range**	345.00000
		Interquartile Range	60.00000

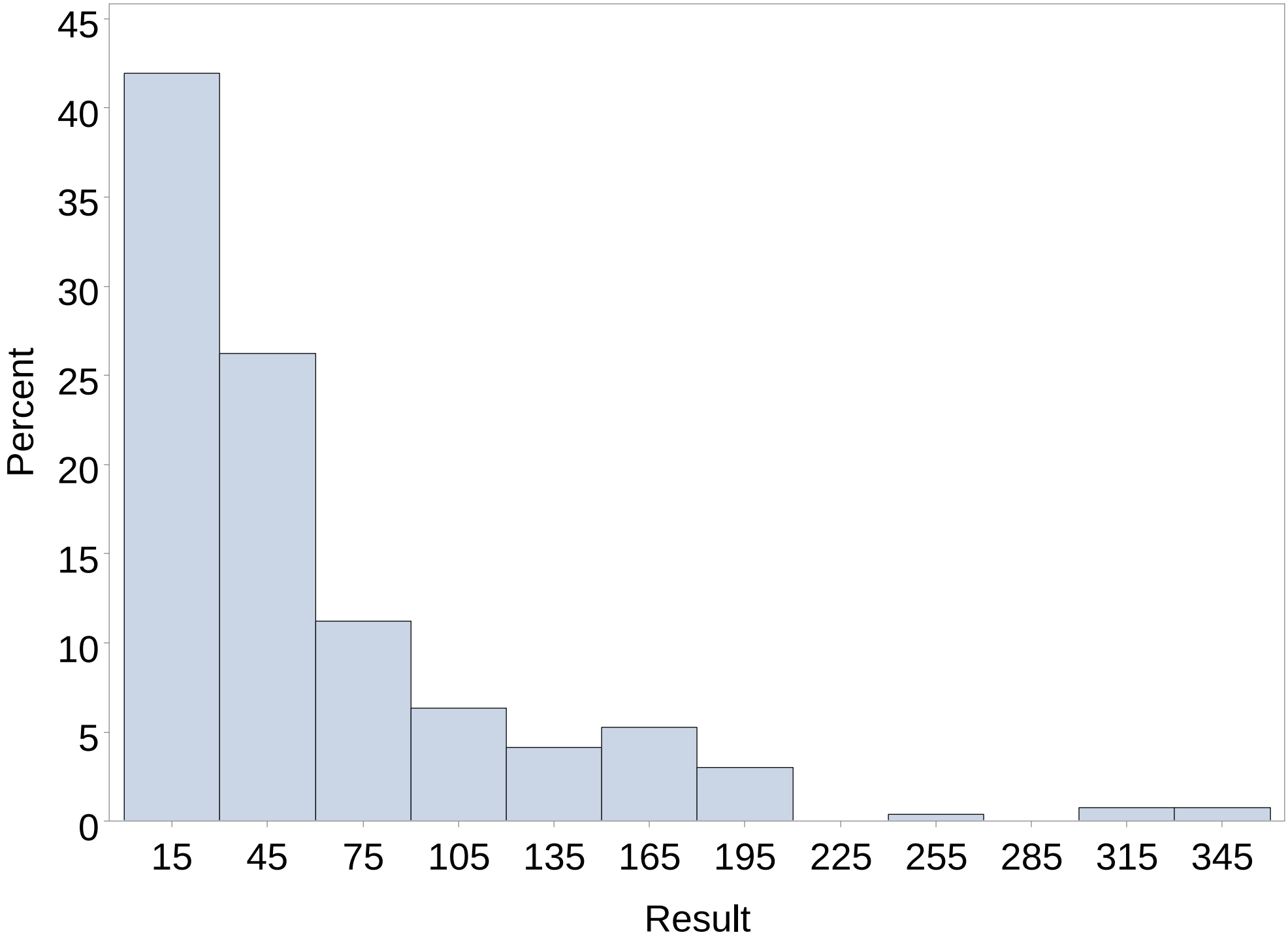
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.71675	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	350
99%	310
95%	175
90%	150
75% Q3	80
50% Median	30
25% Q1	20
10%	15
5%	10
1%	5
0% Min	5

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	10591	240	10514
5	10590	300	10598
5	10585	310	10516
5	10584	350	10551
5	10502	350	10657


Parameter=Color (pcu) River Kilometer=-2.4 Level=Surface
Percent
45
40
35
30
25
20
15
10
5
0
15
45
75
105
135
165
195
225
255
285
315
345
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=6.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	70.9850746	**Sum Observations**	19024
Std Deviation	56.0400452	**Variance**	3140.48667
Skewness	1.95721418	**Kurtosis**	4.78705781
Uncorrected SS	2188930	**Corrected SS**	838509.94
Coeff Variation	78.946237	**Std Error Mean**	3.42319059

Basic Statistical Measures			
Location		**Variability**	
Mean	70.98507	**Std Deviation**	56.04005
Median	50.00000	**Variance**	3140
Mode	40.00000	**Range**	345.00000
		Interquartile Range	55.00000

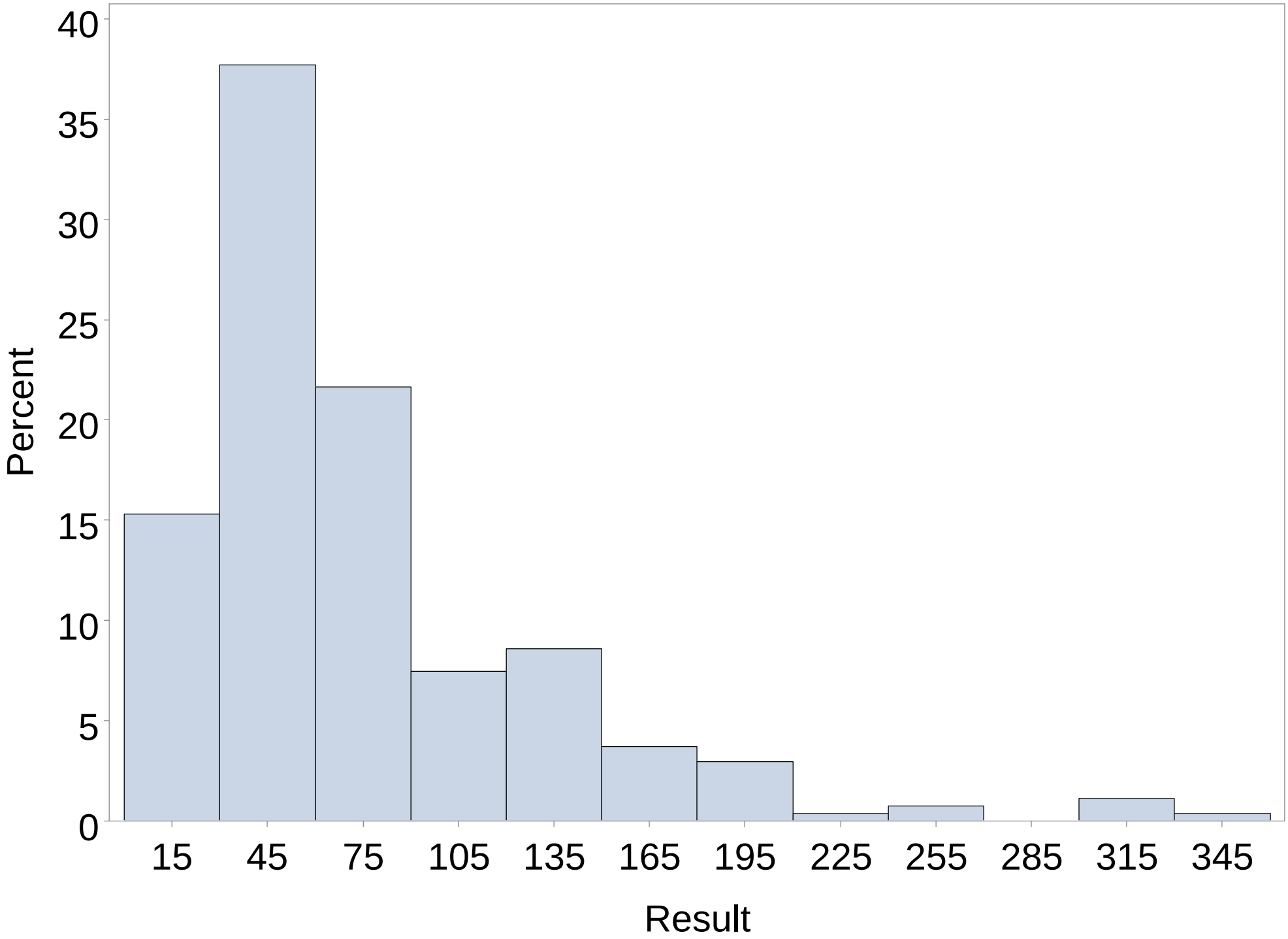
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.73652	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	350
99%	300
95%	180
90%	140
75% Q3	90
50% Median	50
25% Q1	35
10%	20
5%	20
1%	10
0% Min	5

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	10769	250	10821
10	10768	300	10819
10	10767	300	10829
10	10757	300	10844
10	10733	350	10925


Parameter=Color (pcu) River Kilometer=6.6 Level=Bottom
Percent
0
5
10
15
20
25
30
35
40
15
45
75
105
135
165
195
225
255
285
315
345
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=6.6 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	92.1585821	**Sum Observations**	24698.5
Std Deviation	81.9283397	**Variance**	6712.25285
Skewness	1.78440592	**Kurtosis**	3.54832235
Uncorrected SS	4068350.25	**Corrected SS**	1792171.51
Coeff Variation	88.8993058	**Std Error Mean**	5.00456987

Basic Statistical Measures			
Location		**Variability**	
Mean	92.15858	**Std Deviation**	81.92834
Median	60.00000	**Variance**	6712
Mode	30.00000	**Range**	445.00000
		Interquartile Range	85.00000

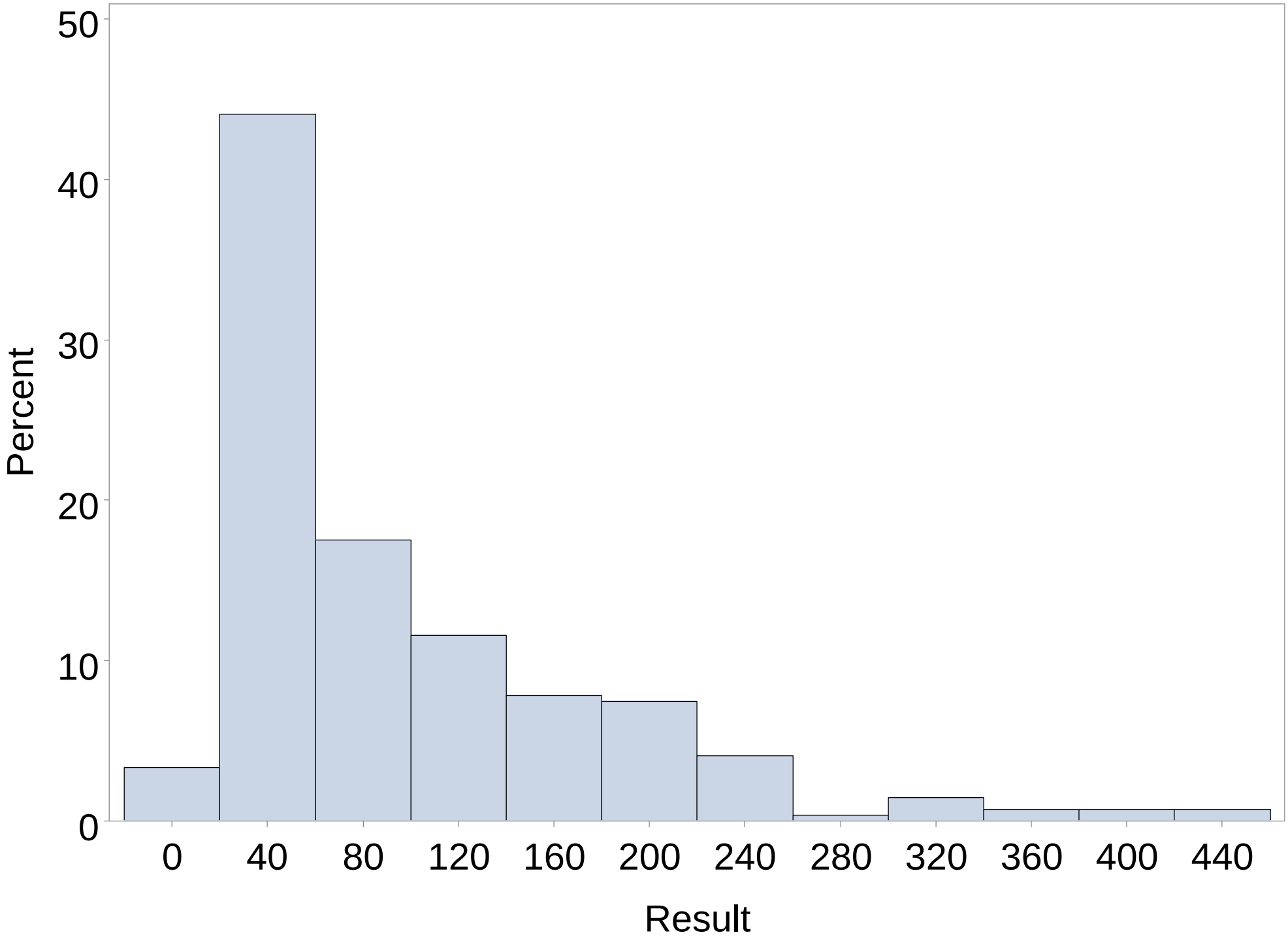
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.41489	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	450
99%	400
95%	250
90%	200
75% Q3	120
50% Median	60
25% Q1	35
10%	25
5%	20
1%	10
0% Min	5

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5	11035	350	11205
10	11037	380	11052
10	11036	400	11240
10	11034	450	11087
10	11024	450	11134


Parameter=Color (pcu) River Kilometer=6.6 Level=Surface
Percent
50
40
30
20
10
0
0
40
80
120
160
200
240
280
320
360
400
440
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=15.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	140.219331	**Sum Observations**	37719
Std Deviation	93.7691286	**Variance**	8792.64948
Skewness	1.06570034	**Kurtosis**	0.80426905
Uncorrected SS	7645363	**Corrected SS**	2356430.06
Coeff Variation	66.8731822	**Std Error Mean**	5.71720467

Basic Statistical Measures			
Location		**Variability**	
Mean	140.2193	**Std Deviation**	93.76913
Median	112.0000	**Variance**	8793
Mode	60.0000	**Range**	480.00000
		Interquartile Range	140.00000

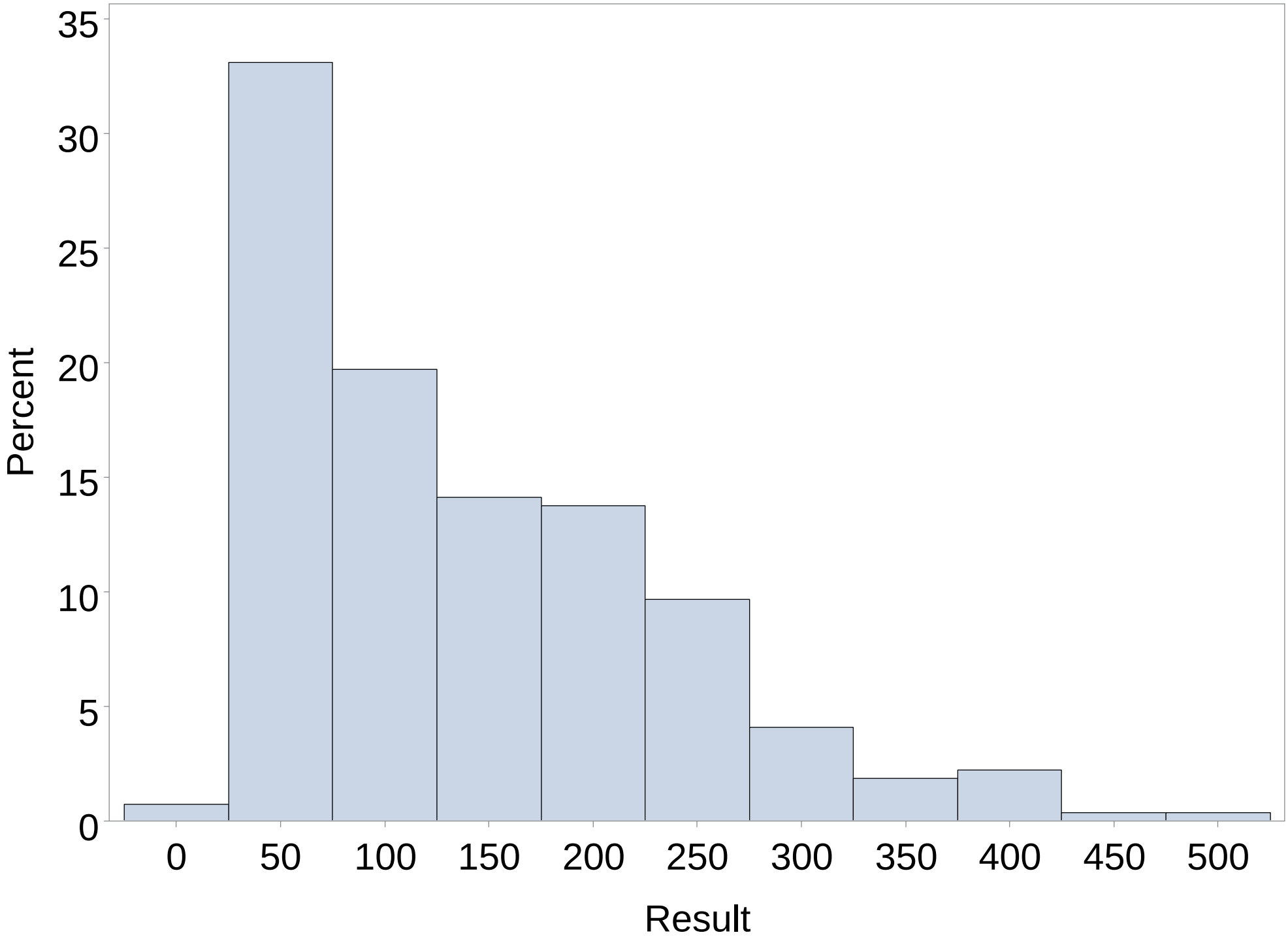
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.52585	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	400
95%	320
90%	260
75% Q3	200
50% Median	112
25% Q1	60
10%	45
5%	40
1%	30
0% Min	20

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	11304	400	11341
20	11303	400	11404
30	11305	400	11474
30	11301	450	11355
30	11267	500	11403


Parameter=Color (pcu) River Kilometer=15.5 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=15.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	141.598513	**Sum Observations**	38090
Std Deviation	96.8007	**Variance**	9370.37552
Skewness	1.1354671	**Kurtosis**	1.05531419
Uncorrected SS	7904748	**Corrected SS**	2511260.64
Coeff Variation	68.3627942	**Std Error Mean**	5.90204284

Basic Statistical Measures			
Location		**Variability**	
Mean	141.5985	**Std Deviation**	96.80070
Median	120.0000	**Variance**	9370
Mode	60.0000	**Range**	490.00000
		Interquartile Range	140.00000

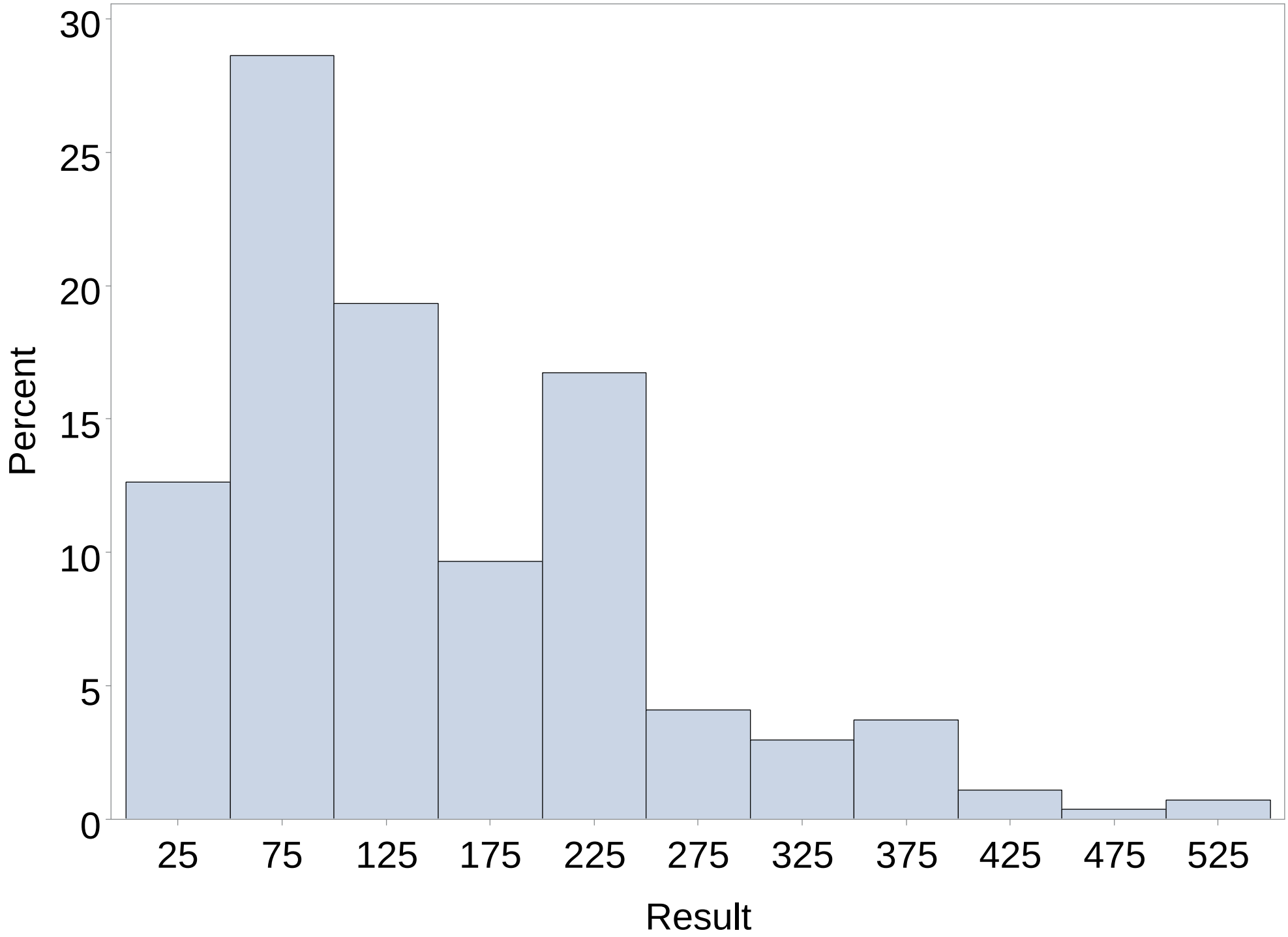
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.99144	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	510
99%	450
95%	350
90%	275
75% Q3	200
50% Median	120
25% Q1	60
10%	45
5%	40
1%	30
0% Min	20

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	11572	400	11743
30	11574	400	11778
30	11573	450	11624
30	11571	500	11672
30	11570	510	11589


Parameter=Color (pcu) River Kilometer=15.5 Level=Surface
Percent
30
25
20
15
10
5
0
25
75
125
175
225
275
325
375
425
475
525
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=23.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	153.880597	**Sum Observations**	41240
Std Deviation	88.9727934	**Variance**	7916.15797
Skewness	0.94243831	**Kurtosis**	0.56124366
Uncorrected SS	8459650	**Corrected SS**	2113614.18
Coeff Variation	57.8193711	**Std Error Mean**	5.43487837

Basic Statistical Measures			
Location		**Variability**	
Mean	153.8806	**Std Deviation**	88.97279
Median	140.0000	**Variance**	7916
Mode	160.0000	**Range**	470.00000
		Interquartile Range	120.00000

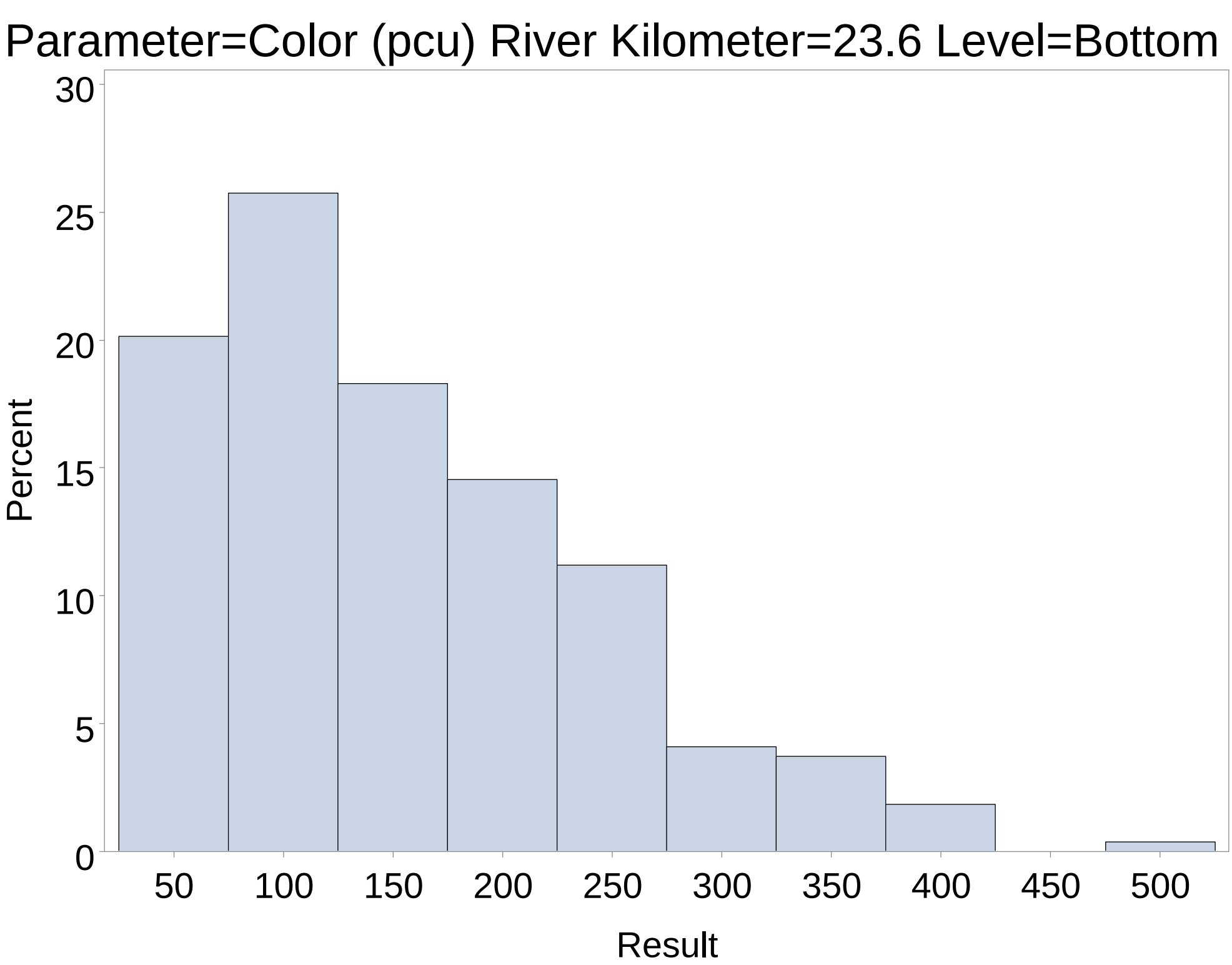
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.31353	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	400
95%	350
90%	275
75% Q3	200
50% Median	140
25% Q1	80
10%	60
5%	50
1%	40
0% Min	30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
30	11840	380	11857
40	11841	400	11892
40	11839	400	11939
40	11805	400	11976
40	11802	500	11940


Parameter=Color (pcu) River Kilometer=23.6 Level=Bottom
30
25
20
15
10
5
0
Percent
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=23.6 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	152.776952	**Sum Observations**	41097
Std Deviation	89.6122372	**Variance**	8030.35305
Skewness	0.95534085	**Kurtosis**	0.61020638
Uncorrected SS	8430809	**Corrected SS**	2152134.62
Coeff Variation	58.6555997	**Std Error Mean**	5.46375453

Basic Statistical Measures			
Location		**Variability**	
Mean	152.7770	**Std Deviation**	89.61224
Median	140.0000	**Variance**	8030
Mode	200.0000	**Range**	460.00000
		Interquartile Range	120.00000

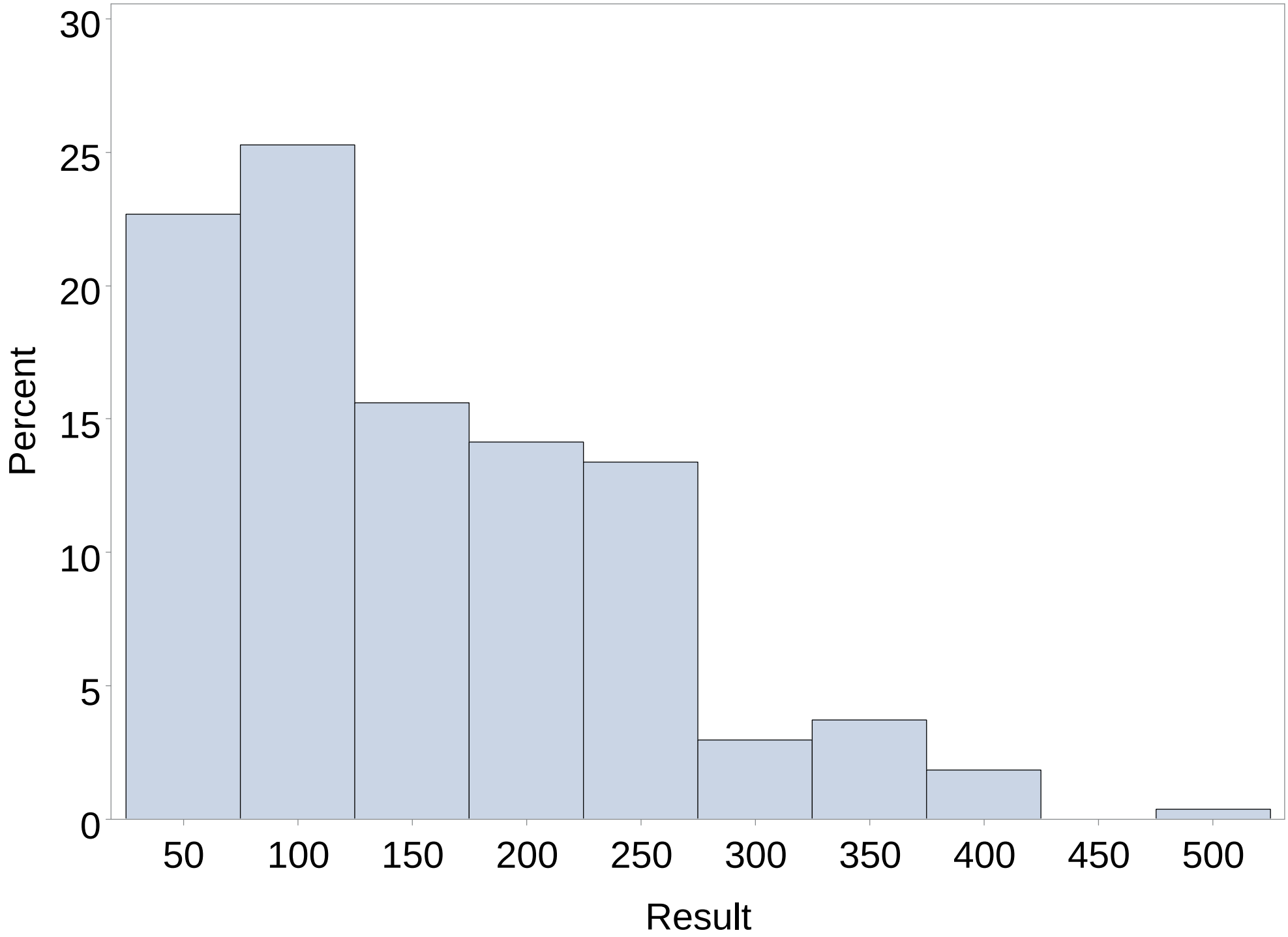
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.9619	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	400
95%	350
90%	250
75% Q3	200
50% Median	140
25% Q1	80
10%	60
5%	50
1%	40
0% Min	40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
40	12110	400	12161
40	12109	400	12186
40	12108	400	12315
40	12073	420	12126
40	12072	500	12209


Parameter=Color (pcu) River Kilometer=23.6 Level=Surface
30
25
20
15
10
5
0
Percent
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=30.7 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	152.670412	**Sum Observations**	40763
Std Deviation	92.8049737	**Variance**	8612.76314
Skewness	0.95434892	**Kurtosis**	0.62338201
Uncorrected SS	8514299	**Corrected SS**	2290995
Coeff Variation	60.7877928	**Std Error Mean**	5.67957216

Basic Statistical Measures			
Location		**Variability**	
Mean	152.6704	**Std Deviation**	92.80497
Median	140.0000	**Variance**	8613
Mode	60.0000	**Range**	470.00000
		Interquartile Range	140.00000

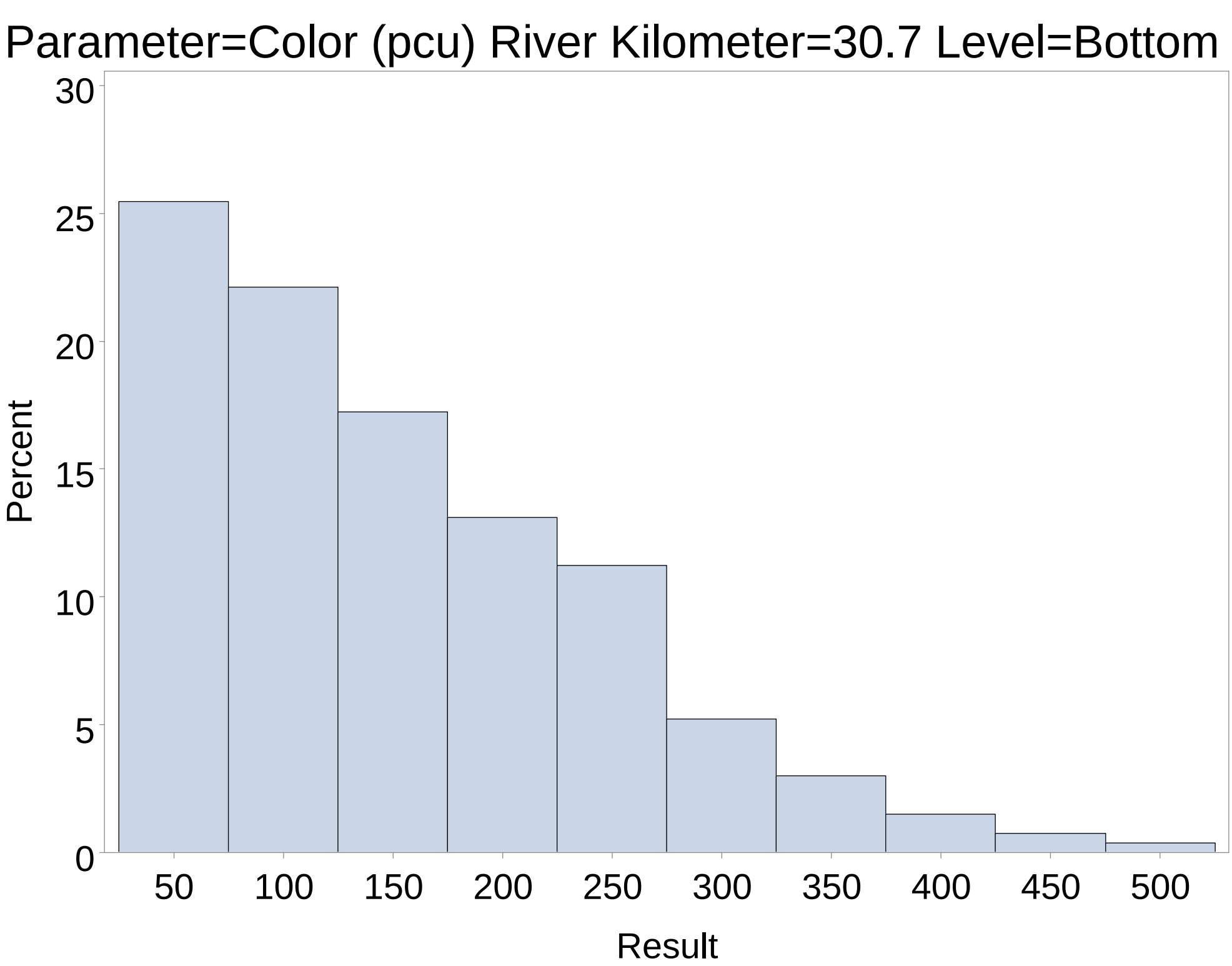
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.88062	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	450
95%	350
90%	280
75% Q3	210
50% Median	140
25% Q1	70
10%	55
5%	45
1%	30
0% Min	30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
30	12379	400	12415
30	12378	400	12583
30	12377	450	12429
30	12342	450	12582
30	12340	500	12477


Parameter=Color (pcu) River Kilometer=30.7 Level=Bottom
30
25
20
15
10
5
0
Percent
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=30.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	151.063433	**Sum Observations**	40485
Std Deviation	91.6519618	**Variance**	8400.0821
Skewness	0.96904558	**Kurtosis**	0.64369234
Uncorrected SS	8358625	**Corrected SS**	2242821.92
Coeff Variation	60.6711764	**Std Error Mean**	5.59853462

Basic Statistical Measures			
Location		**Variability**	
Mean	151.0634	**Std Deviation**	91.65196
Median	140.0000	**Variance**	8400
Mode	120.0000	**Range**	470.00000
		Interquartile Range	130.00000

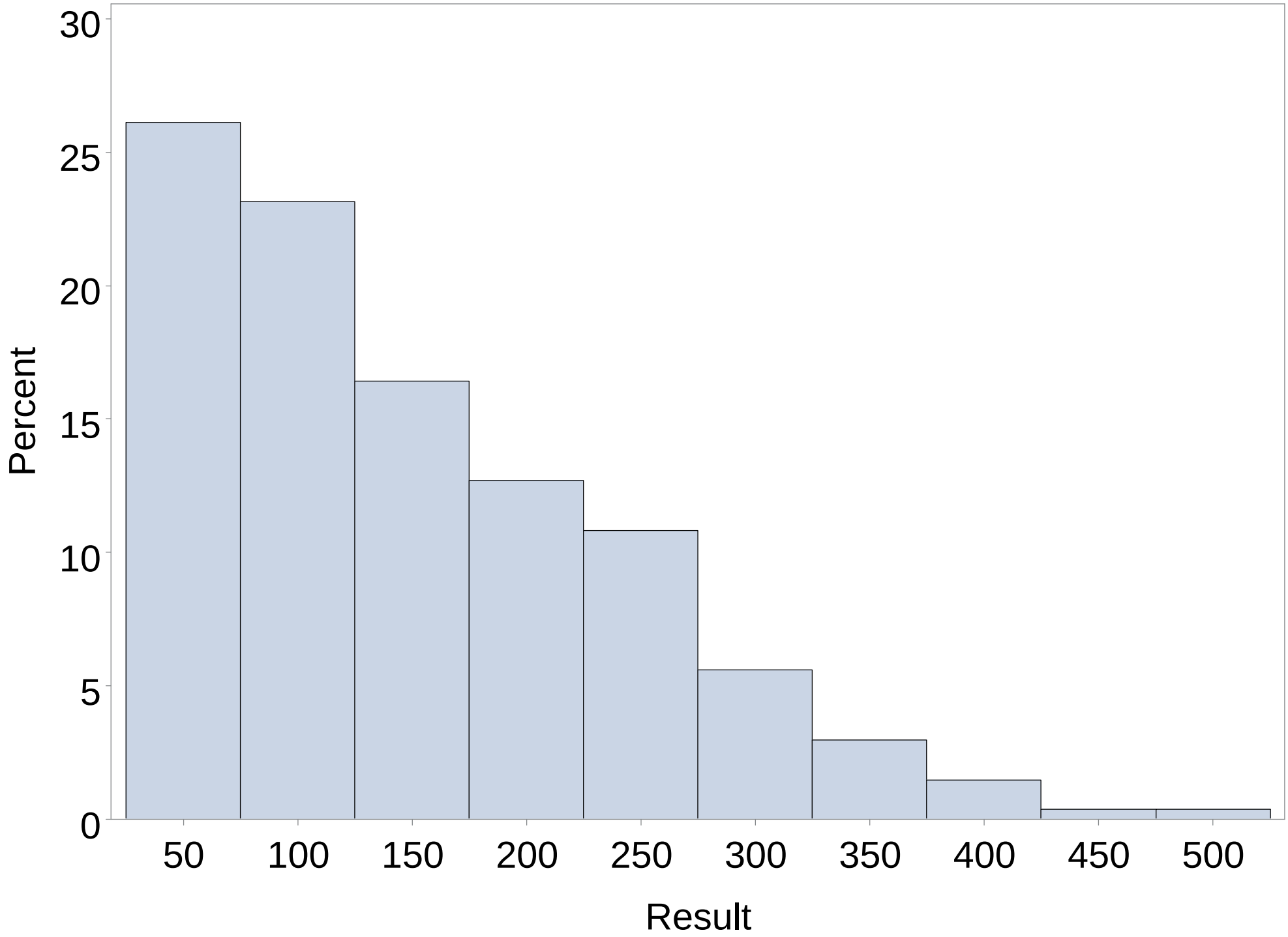
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.98267	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	410
95%	350
90%	280
75% Q3	200
50% Median	140
25% Q1	70
10%	55
5%	40
1%	30
0% Min	30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Color (pcu) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
30	12647	400	12697
30	12645	400	12851
30	12644	410	12662
30	12608	450	12744
30	12607	500	12745


Parameter=Color (pcu) River Kilometer=30.7 Level=Surface
30
25
20
15
10
5
0
Percent
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=-2.4 Level=Bottom

Moments			
N	311	**Sum Weights**	311
Mean	44241.4887	**Sum Observations**	13759103
Std Deviation	8581.46298	**Variance**	73641507
Skewness	-0.5896695	**Kurtosis**	1.91153987
Uncorrected SS	6.31552E11	**Corrected SS**	2.28289E10
Coeff Variation	19.3968676	**Std Error Mean**	486.610123

Basic Statistical Measures			
Location		**Variability**	
Mean	44241.49	**Std Deviation**	8581
Median	44700.00	**Variance**	73641507
Mode	45400.00	**Range**	65626
		Interquartile Range	10193

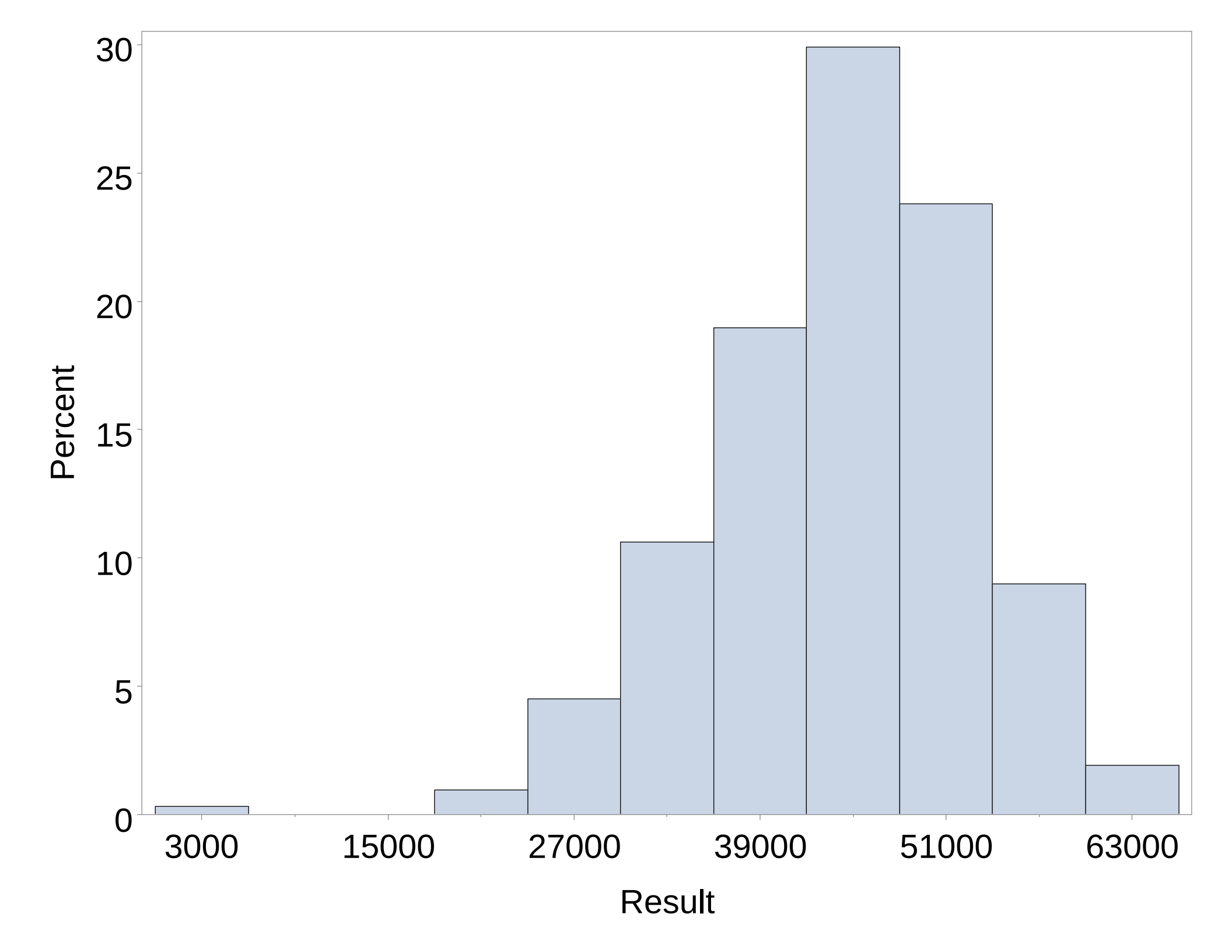
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	90.91773	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	65956
99%	63623
95%	57203
90%	54730
75% Q3	49863
50% Median	44700
25% Q1	39670
10%	33700
5%	29287
1%	23605
0% Min	330

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
330	13103	63351	12980
18826	12904	63623	13100
20308	12905	64267	13112
23605	12973	65704	13101
24857	12907	65956	13030


30
25
20
15
10
5
0
Percent
3000
15000
27000
39000
51000
63000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=6.6 Level=Bottom

Moments			
N	315	**Sum Weights**	315
Mean	38530.2317	**Sum Observations**	12137023
Std Deviation	9800.52887	**Variance**	96050366.2
Skewness	-1.0866299	**Kurtosis**	2.99844656
Uncorrected SS	4.97802E11	**Corrected SS**	3.01598E10
Coeff Variation	25.4359458	**Std Error Mean**	552.197245

Basic Statistical Measures			
Location		**Variability**	
Mean	38530.23	**Std Deviation**	9801
Median	39800.00	**Variance**	96050366
Mode	31900.00	**Range**	63001
		Interquartile Range	11010

Note: The mode displayed is the smallest of 4 modes with a count of 2.

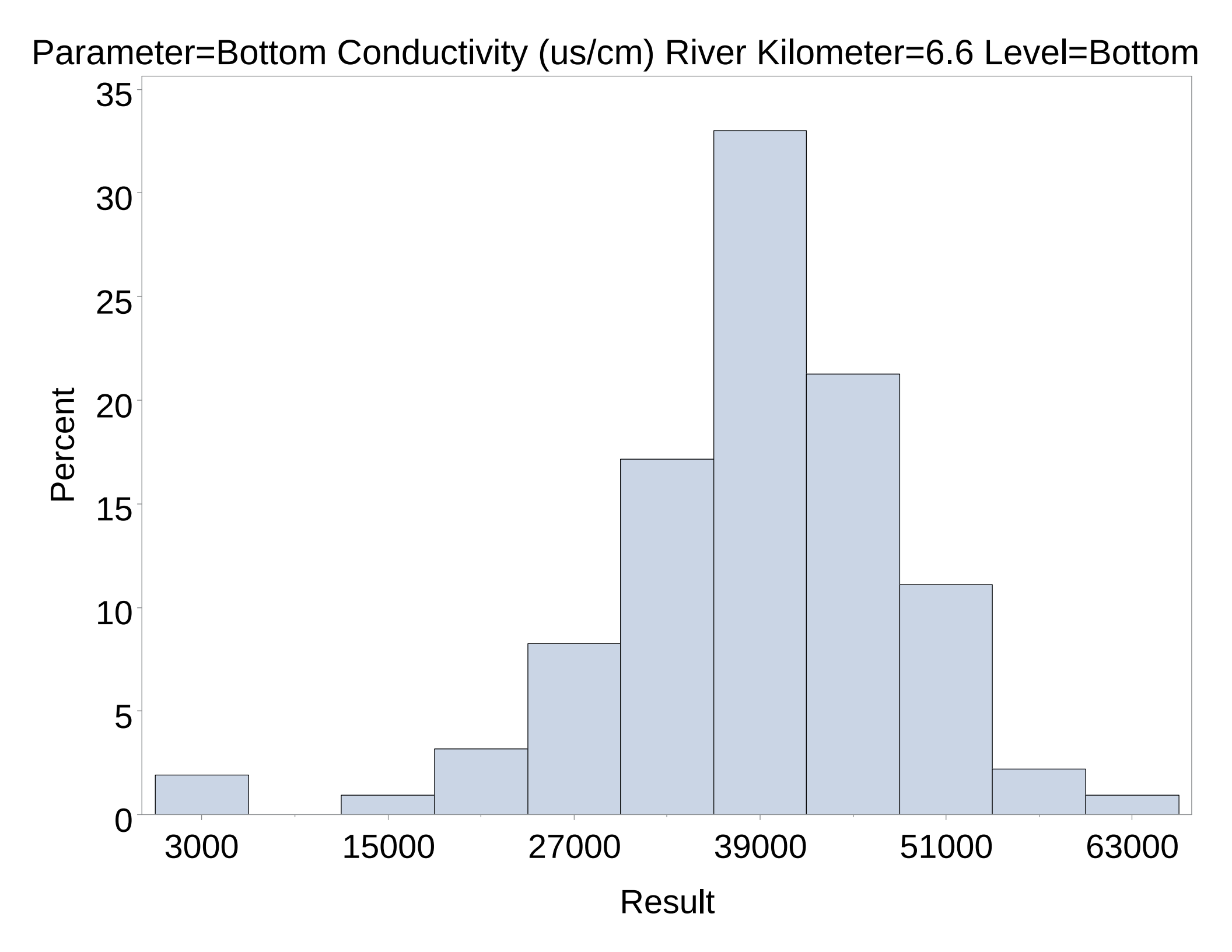
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	69.77621	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	63094
99%	58863
95%	52057
90%	49204
75% Q3	44440
50% Median	39800
25% Q1	33430
10%	27800
5%	22100
1%	209
0% Min	93

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
93	13218	58734	13294
147	13216	58863	13427
161	13215	60139	13415
209	13211	60263	13416
231	13212	63094	13344


Parameter=Bottom Conductivity (us/cm) River Kilometer=6.6 Level=Bottom
Percent
0
5
10
15
20
25
30
35
3000
15000
27000
39000
51000
63000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=8.4 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	34596.6401	**Sum Observations**	9306496.2
Std Deviation	11611.1198	**Variance**	134818104
Skewness	-0.9575991	**Kurtosis**	1.32616912
Uncorrected SS	3.58105E11	**Corrected SS**	3.61313E10
Coeff Variation	33.5614088	**Std Error Mean**	707.942471

Basic Statistical Measures			
Location		**Variability**	
Mean	34596.64	**Std Deviation**	11611
Median	36529.00	**Variance**	134818104
Mode	35400.00	**Range**	59577
		Interquartile Range	12987

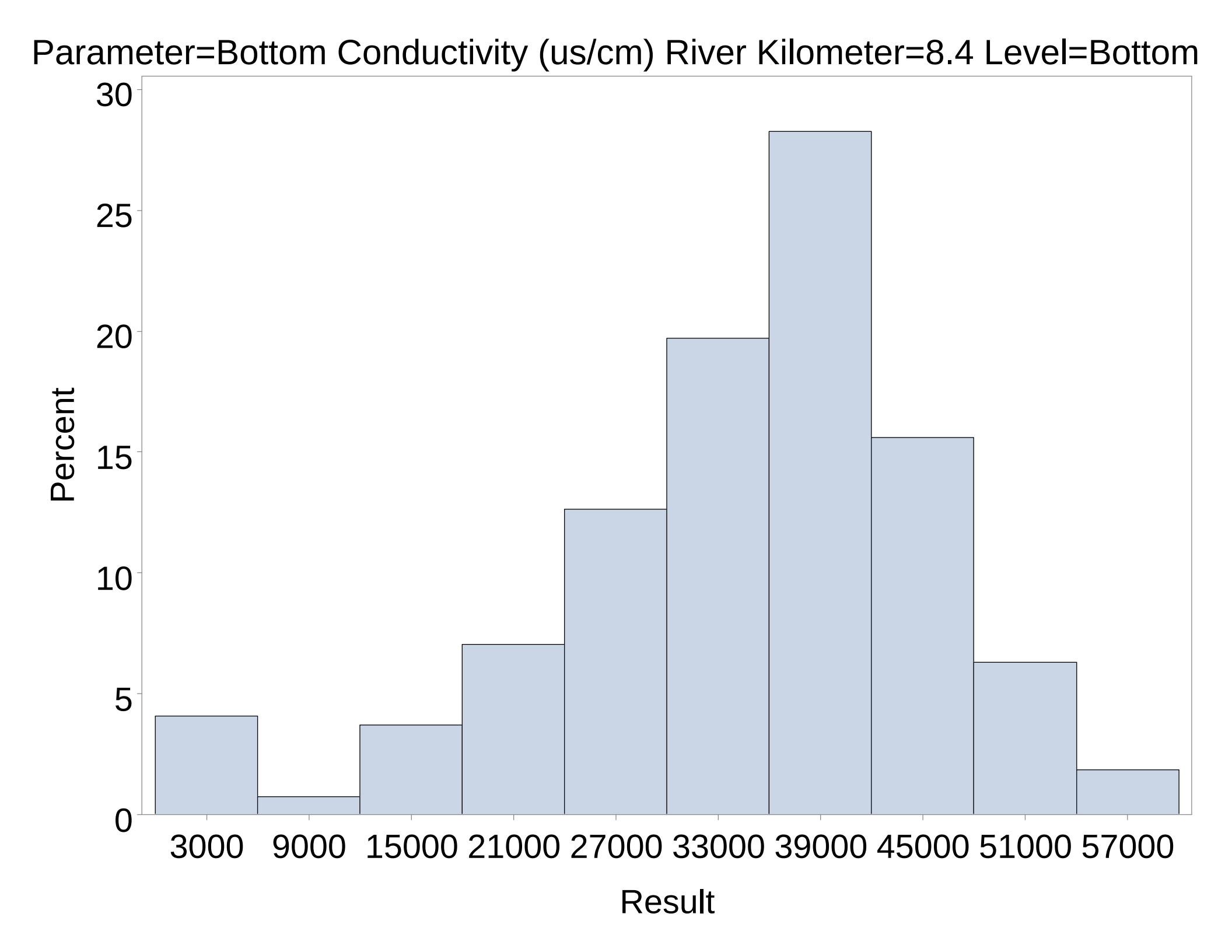
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.86928	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	59669
99%	58329
95%	50473
90%	47302
75% Q3	41687
50% Median	36529
25% Q1	28700
10%	20946
5%	13543
1%	168
0% Min	92

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=8.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
92.0	13514	54419	13695
136.0	13513	55928	13696
168.0	13511	58329	13684
238.0	13556	58630	13685
254.2	13616	59669	13613


Parameter=Bottom Conductivity (us/cm) River Kilometer=8.4 Level=Bottom
Percent
0
5
10
15
20
25
30
3000
9000
15000
21000
27000
33000
39000
45000
51000
57000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=10.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	28608.1874	**Sum Observations**	7695602.4
Std Deviation	12694.375	**Variance**	161147158
Skewness	-0.5732246	**Kurtosis**	0.00576884
Uncorrected SS	2.63345E11	**Corrected SS**	4.31874E10
Coeff Variation	44.3732239	**Std Error Mean**	773.989706

Basic Statistical Measures			
Location		**Variability**	
Mean	28608.19	**Std Deviation**	12694
Median	30261.00	**Variance**	161147158
Mode	.	**Range**	55138
		Interquartile Range	14578

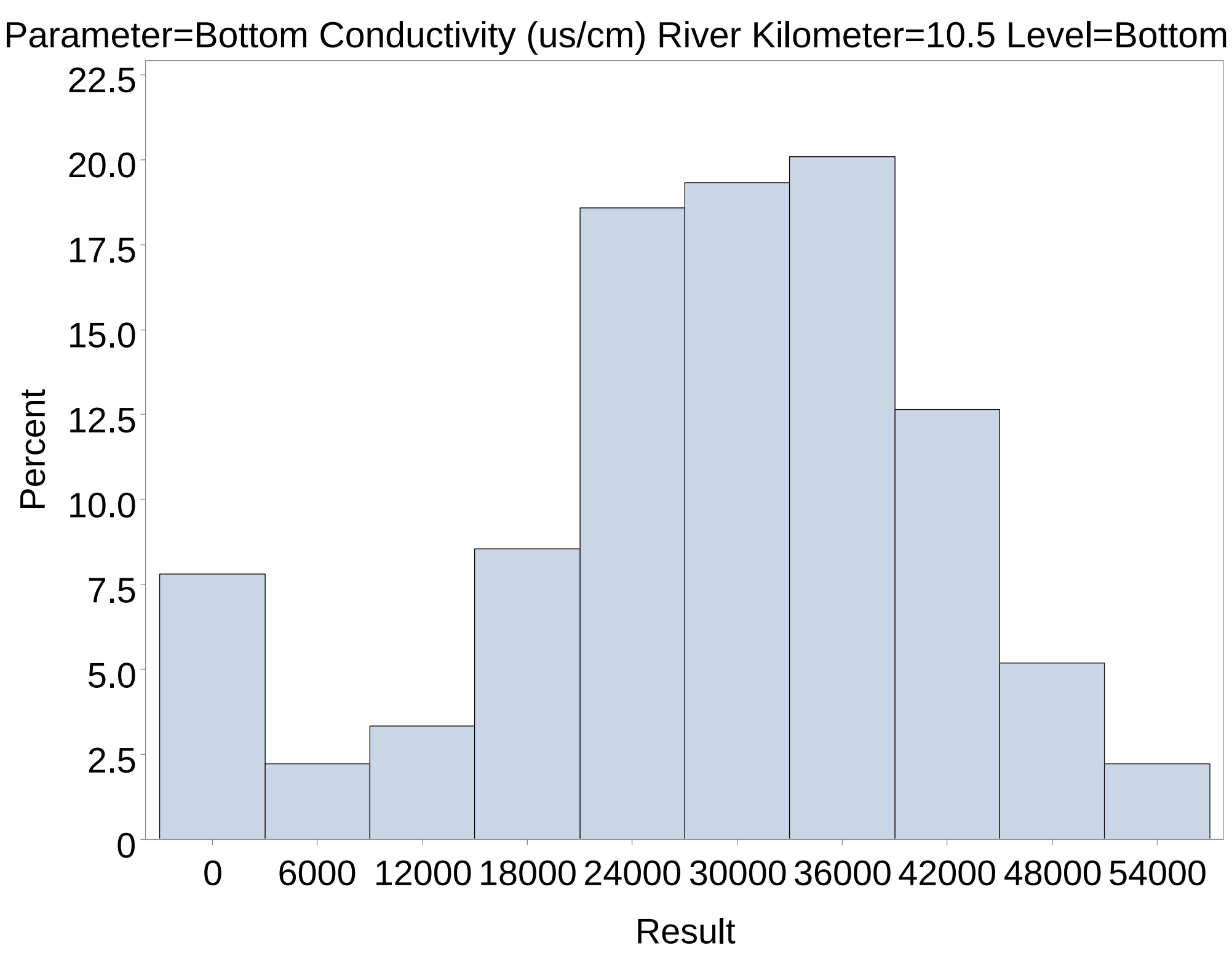
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.96197	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	55246.0
99%	53664.0
95%	46354.0
90%	43649.0
75% Q3	36875.0
50% Median	30261.0
25% Q1	22297.0
10%	8687.0
5%	433.0
1%	193.4
0% Min	108.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=10.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
108.0	13783	51634	13964
176.0	13780	52426	13965
193.4	13860	53664	13954
196.0	13782	54311	13953
237.6	13885	55246	13882


Parameter=Bottom Conductivity (us/cm) River Kilometer=10.5 Level=Bottom
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
6000
12000
18000
24000
30000
36000
42000
48000
54000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=12.7 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	20901.6929	**Sum Observations**	5622555.4
Std Deviation	13420.6692	**Variance**	180114362
Skewness	-0.1818588	**Kurtosis**	-1.0611094
Uncorrected SS	1.65792E11	**Corrected SS**	4.82706E10
Coeff Variation	64.2085273	**Std Error Mean**	818.272644

Basic Statistical Measures			
Location		**Variability**	
Mean	20901.69	**Std Deviation**	13421
Median	23323.00	**Variance**	180114362
Mode	509.00	**Range**	48332
		Interquartile Range	22685

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

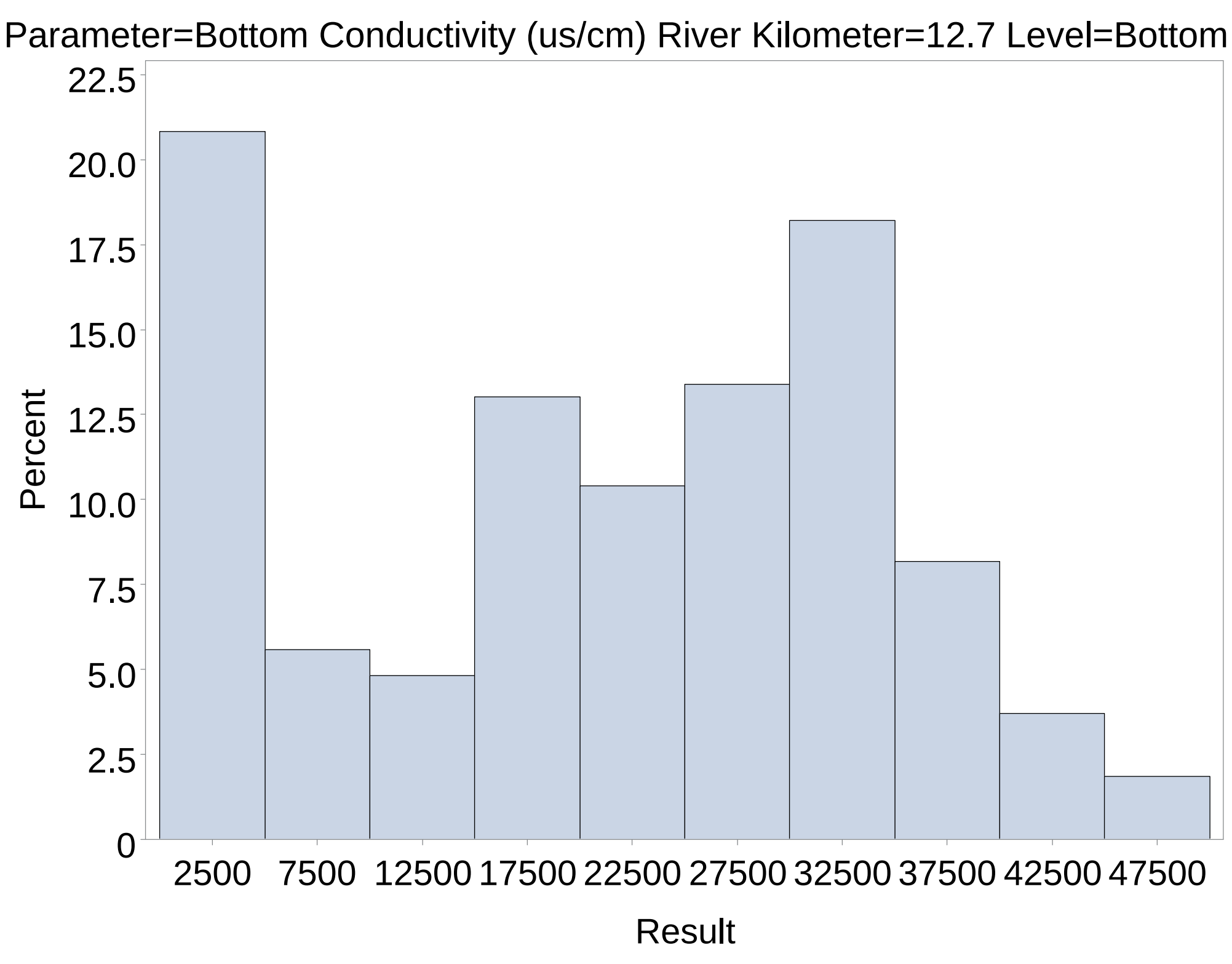
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.54368	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	48415.0
99%	47081.0
95%	40784.0
90%	36568.0
75% Q3	31555.0
50% Median	23323.0
25% Q1	8870.0
10%	454.0
5%	288.3
1%	130.0
0% Min	83.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=12.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
83.0	14052	45613	14090
109.0	14048	46338	14234
130.0	14051	47081	14223
148.3	14049	48130	14151
195.3	14130	48415	14222


Parameter=Bottom Conductivity (us/cm) River Kilometer=12.7 Level=Bottom
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
2500
7500
12500
17500
22500
27500
32500
37500
42500
47500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=12.8 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	20082.242	**Sum Observations**	5402123.1
Std Deviation	13408.2745	**Variance**	179781824
Skewness	-0.1336809	**Kurtosis**	-1.0937348
Uncorrected SS	1.56668E11	**Corrected SS**	4.81815E10
Coeff Variation	66.7668204	**Std Error Mean**	817.516922

Basic Statistical Measures			
Location		**Variability**	
Mean	20082.24	**Std Deviation**	13408
Median	22244.00	**Variance**	179781824
Mode	.	**Range**	48531
		Interquartile Range	22459

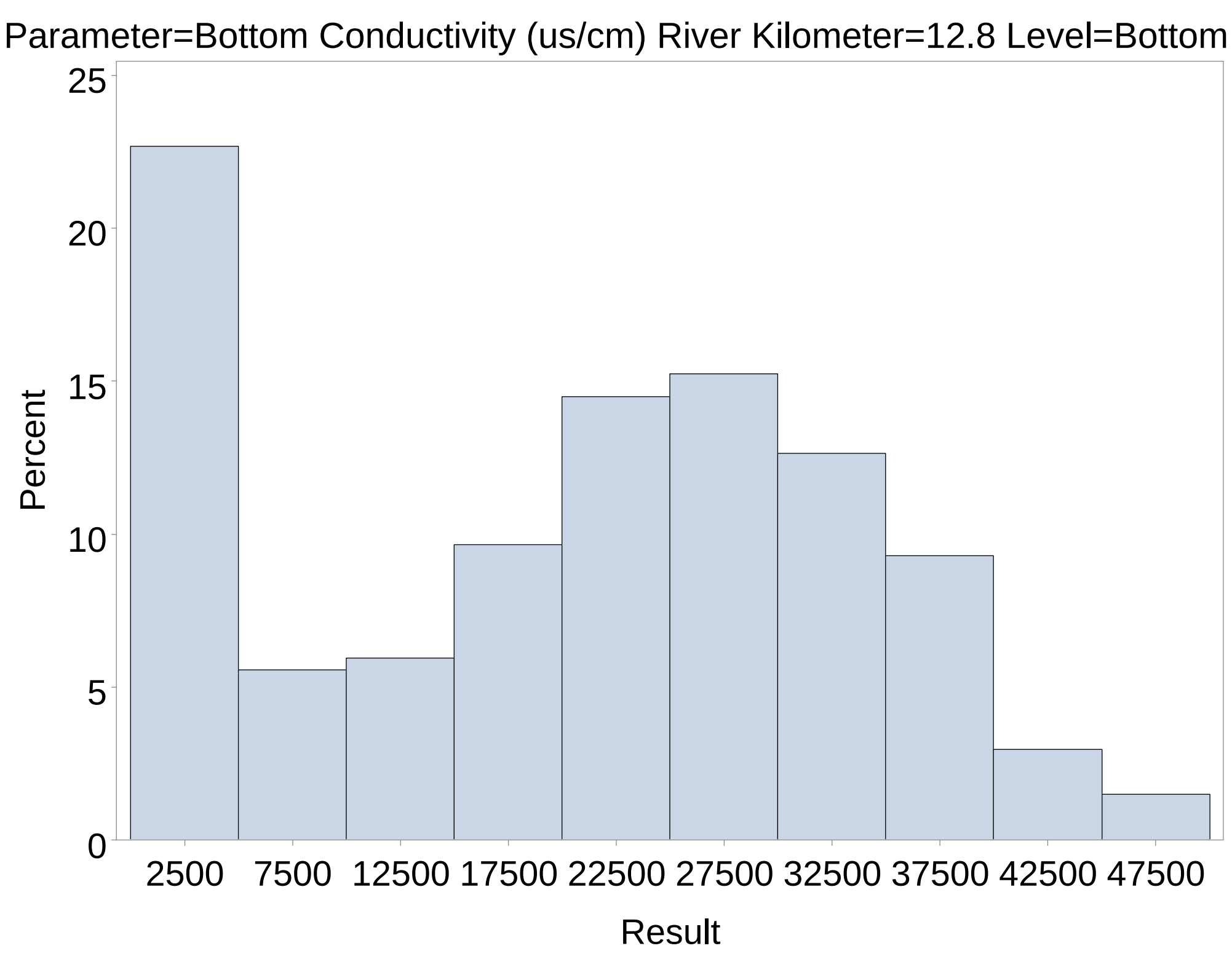
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.56493	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	48626.0
99%	46591.0
95%	39543.0
90%	36700.0
75% Q3	30330.0
50% Median	22244.0
25% Q1	7871.0
10%	360.3
5%	242.7
1%	139.0
0% Min	95.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=12.8 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
95.0	14321	44826	14443
126.0	14317	46395	14503
139.0	14320	46591	14359
163.5	14399	48289	14420
172.7	14398	48626	14491


Parameter=Bottom Conductivity (us/cm) River Kilometer=12.8 Level=Bottom
Percent
0
5
10
15
20
25
2500
7500
12500
17500
22500
27500
32500
37500
42500
47500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=15.5 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	14681.9918	**Sum Observations**	4639509.4
Std Deviation	12229.9903	**Variance**	149572663
Skewness	0.34587648	**Kurtosis**	-0.9586644
Uncorrected SS	1.15233E11	**Corrected SS**	4.71154E10
Coeff Variation	83.2992587	**Std Error Mean**	687.990707

Basic Statistical Measures			
Location		**Variability**	
Mean	14681.99	**Std Deviation**	12230
Median	14091.00	**Variance**	149572663
Mode	320.00	**Range**	46591
		Interquartile Range	23291

Note: The mode displayed is the smallest of 7 modes with a count of 2.

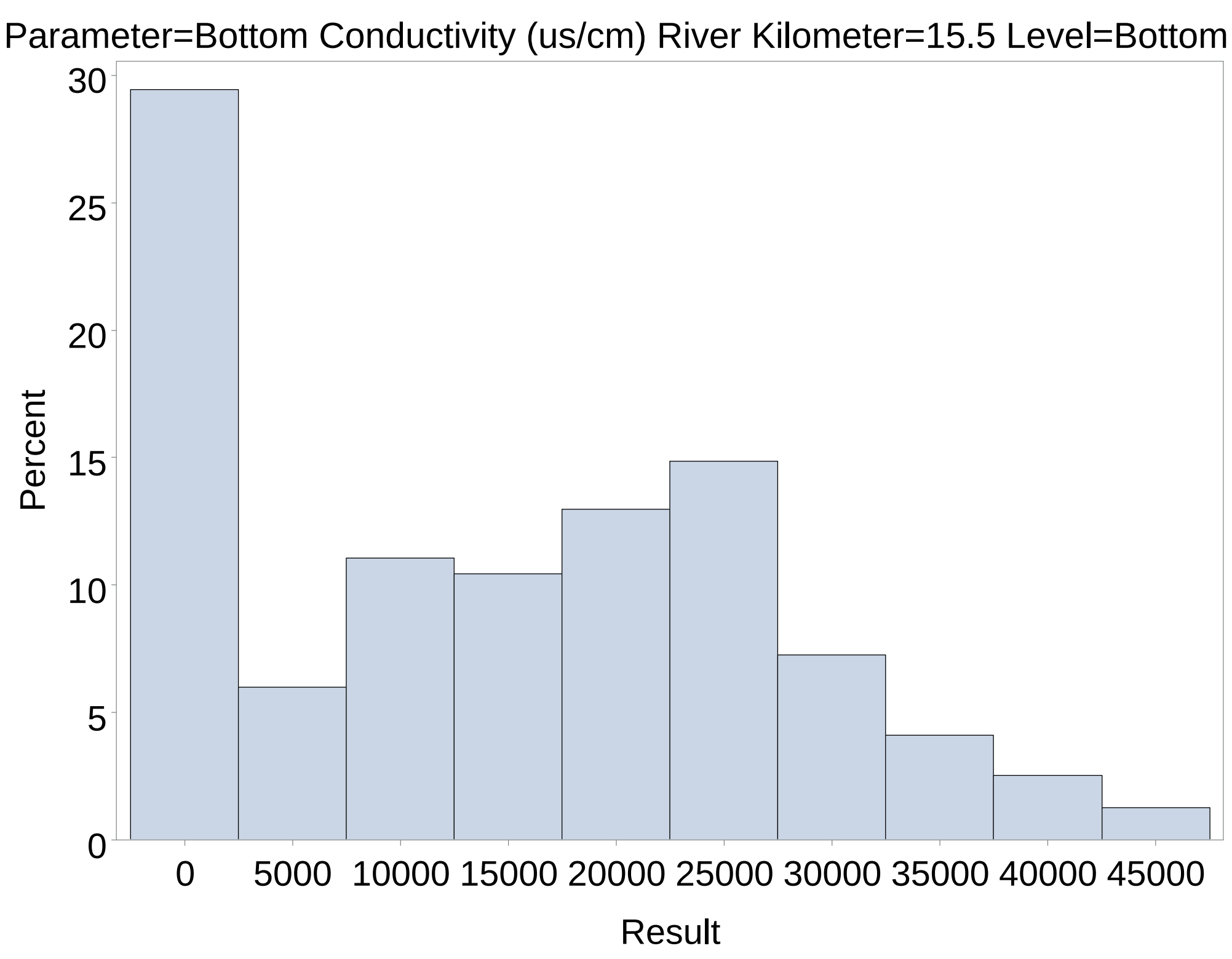
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.34039	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	46682.0
99%	42674.0
95%	36505.0
90%	31654.0
75% Q3	24184.5
50% Median	14091.0
25% Q1	894.0
10%	283.0
5%	210.2
1%	111.0
0% Min	91.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
91	14609	41907	14867
94	14610	42674	14675
107	14601	42958	14736
111	14602	43202	14759
125	14607	46682	14807


Parameter=Bottom Conductivity (us/cm) River Kilometer=15.5 Level=Bottom
Percent
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=17.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	11619.6227	**Sum Observations**	3125678.5
Std Deviation	11522.3288	**Variance**	132764060
Skewness	0.63497817	**Kurtosis**	-0.7841018
Uncorrected SS	7.19E10	**Corrected SS**	3.55808E10
Coeff Variation	99.1626758	**Std Error Mean**	702.528784

Basic Statistical Measures			
Location		**Variability**	
Mean	11619.62	**Std Deviation**	11522
Median	8699.00	**Variance**	132764060
Mode	312.00	**Range**	44179
		Interquartile Range	20259

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

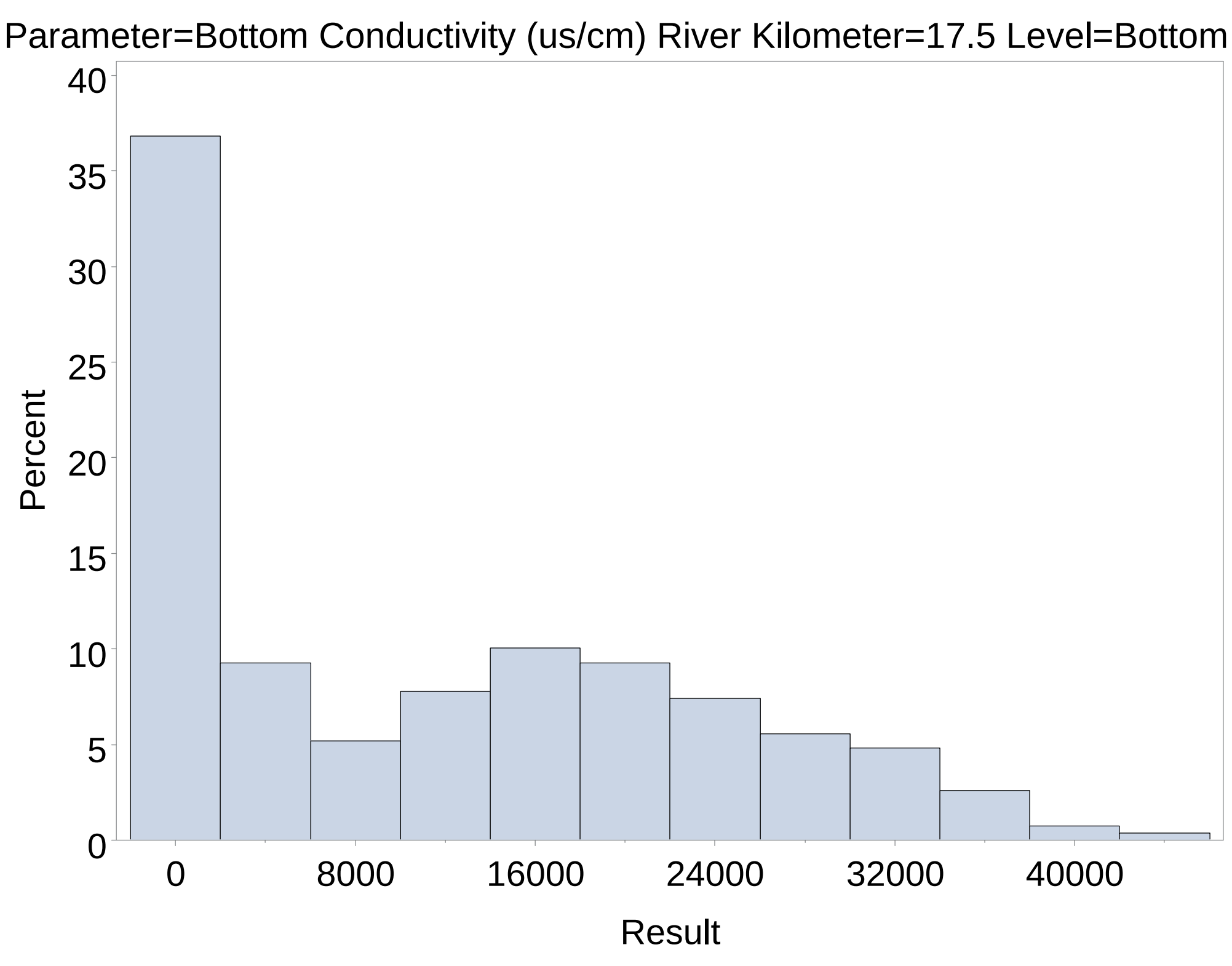
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.53971	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	44263.0
99%	39548.0
95%	32516.0
90%	28362.0
75% Q3	20721.0
50% Median	8699.0
25% Q1	462.1
10%	291.0
5%	224.0
1%	131.0
0% Min	84.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=17.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
84.0	14906	37479	15005
107.0	14902	37496	15136
131.0	14905	39548	14944
144.1	14903	39656	15028
146.3	14997	44263	15076


Parameter=Bottom Conductivity (us/cm) River Kilometer=17.5 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0
8000
16000
24000
32000
40000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=20.1 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	8839.95539	**Sum Observations**	2377948
Std Deviation	10097.3182	**Variance**	101955835
Skewness	0.95621505	**Kurtosis**	-0.174629
Uncorrected SS	4.83451E10	**Corrected SS**	2.73242E10
Coeff Variation	114.223633	**Std Error Mean**	615.644356

Basic Statistical Measures			
Location		**Variability**	
Mean	8839.955	**Std Deviation**	10097
Median	3821.000	**Variance**	101955835
Mode	240.000	**Range**	41234
		Interquartile Range	15639

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

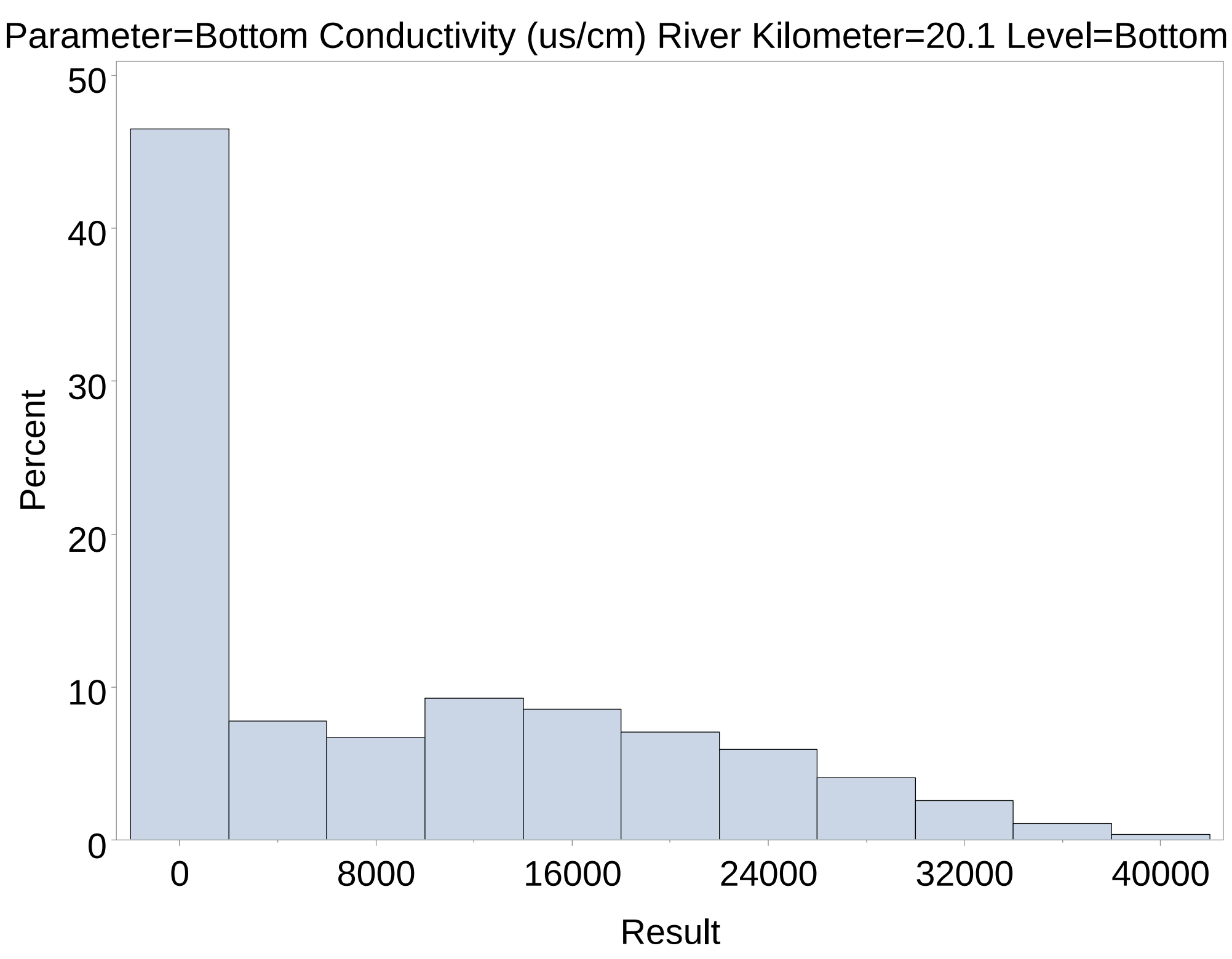
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.35887	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41312.0
99%	35400.0
95%	28851.0
90%	25129.0
75% Q3	16051.0
50% Median	3821.0
25% Q1	411.9
10%	270.4
5%	221.6
1%	132.0
0% Min	78.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=20.1 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
78.0	15175	33016	15405
108.0	15171	35150	15297
132.0	15174	35400	15201
142.9	15172	35659	15213
145.0	15266	41312	15345


Parameter=Bottom Conductivity (us/cm) River Kilometer=20.1 Level=Bottom
50
40
30
20
10
0
Percent
0
8000
16000
24000
32000
40000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=21.9 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	5173.57026	**Sum Observations**	1391690.4
Std Deviation	7495.95659	**Variance**	56189365.3
Skewness	1.73994466	**Kurtosis**	2.37244885
Uncorrected SS	2.22588E10	**Corrected SS**	1.50587E10
Coeff Variation	144.889433	**Std Error Mean**	457.03654

Basic Statistical Measures			
Location		**Variability**	
Mean	5173.570	**Std Deviation**	7496
Median	736.800	**Variance**	56189365
Mode	429.000	**Range**	34624
		Interquartile Range	7078

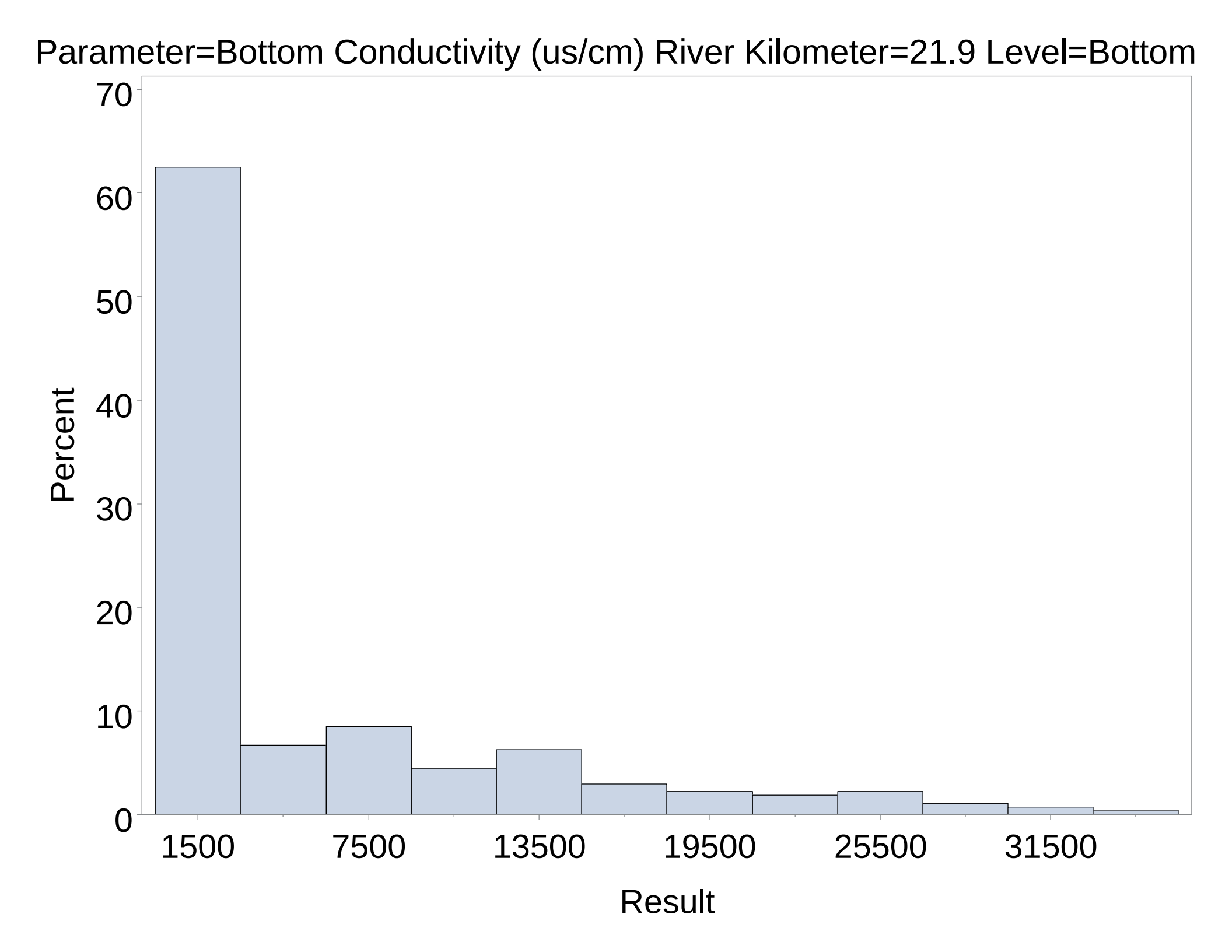
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.31982	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34705.0
99%	30529.0
95%	23000.0
90%	16337.0
75% Q3	7453.0
50% Median	736.8
25% Q1	375.0
10%	270.0
5%	221.0
1%	131.0
0% Min	81.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=21.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
81.0	15444	28618	15674
110.0	15440	29580	15566
131.0	15443	30529	15482
141.6	15441	31400	15470
144.8	15535	34705	15614


Parameter=Bottom Conductivity (us/cm) River Kilometer=21.9 Level=Bottom
Percent
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=23.6 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	3841.04494	**Sum Observations**	1213770.2
Std Deviation	6401.2574	**Variance**	40976096.4
Skewness	2.25415673	**Kurtosis**	4.71108129
Uncorrected SS	1.75696E10	**Corrected SS**	1.29075E10
Coeff Variation	166.654062	**Std Error Mean**	360.098863

Basic Statistical Measures			
Location		**Variability**	
Mean	3841.045	**Std Deviation**	6401
Median	565.700	**Variance**	40976096
Mode	312.000	**Range**	31884
		Interquartile Range	3808

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

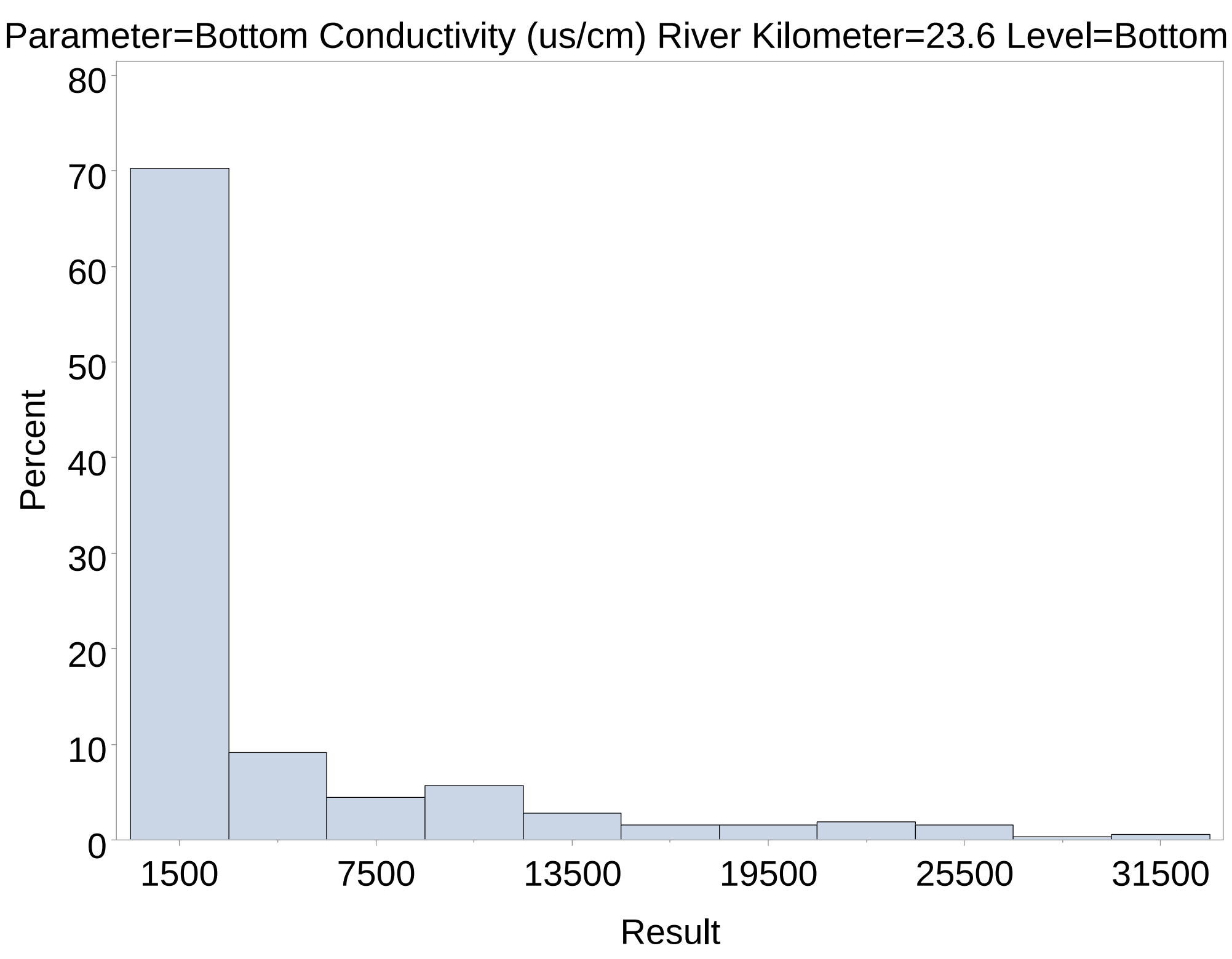
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.66664	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31963.0
99%	26437.0
95%	20800.0
90%	12198.0
75% Q3	4162.0
50% Median	565.7
25% Q1	354.0
10%	252.0
5%	209.6
1%	103.0
0% Min	79.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
79	15733	26100	15786
91	15732	26437	15882
99	15724	29700	15785
103	15725	30900	15784
134	15730	31963	15930


Parameter=Bottom Conductivity (us/cm) River Kilometer=23.6 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=24.7 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	2782.24572	**Sum Observations**	748424.1
Std Deviation	5133.24069	**Variance**	26350160
Skewness	2.79403442	**Kurtosis**	7.98746274
Uncorrected SS	9144142639	**Corrected SS**	7061842886
Coeff Variation	184.499904	**Std Error Mean**	312.979209

Basic Statistical Measures			
Location		**Variability**	
Mean	2782.246	**Std Deviation**	5133
Median	557.800	**Variance**	26350160
Mode	276.000	**Range**	29770
		Interquartile Range	1694

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

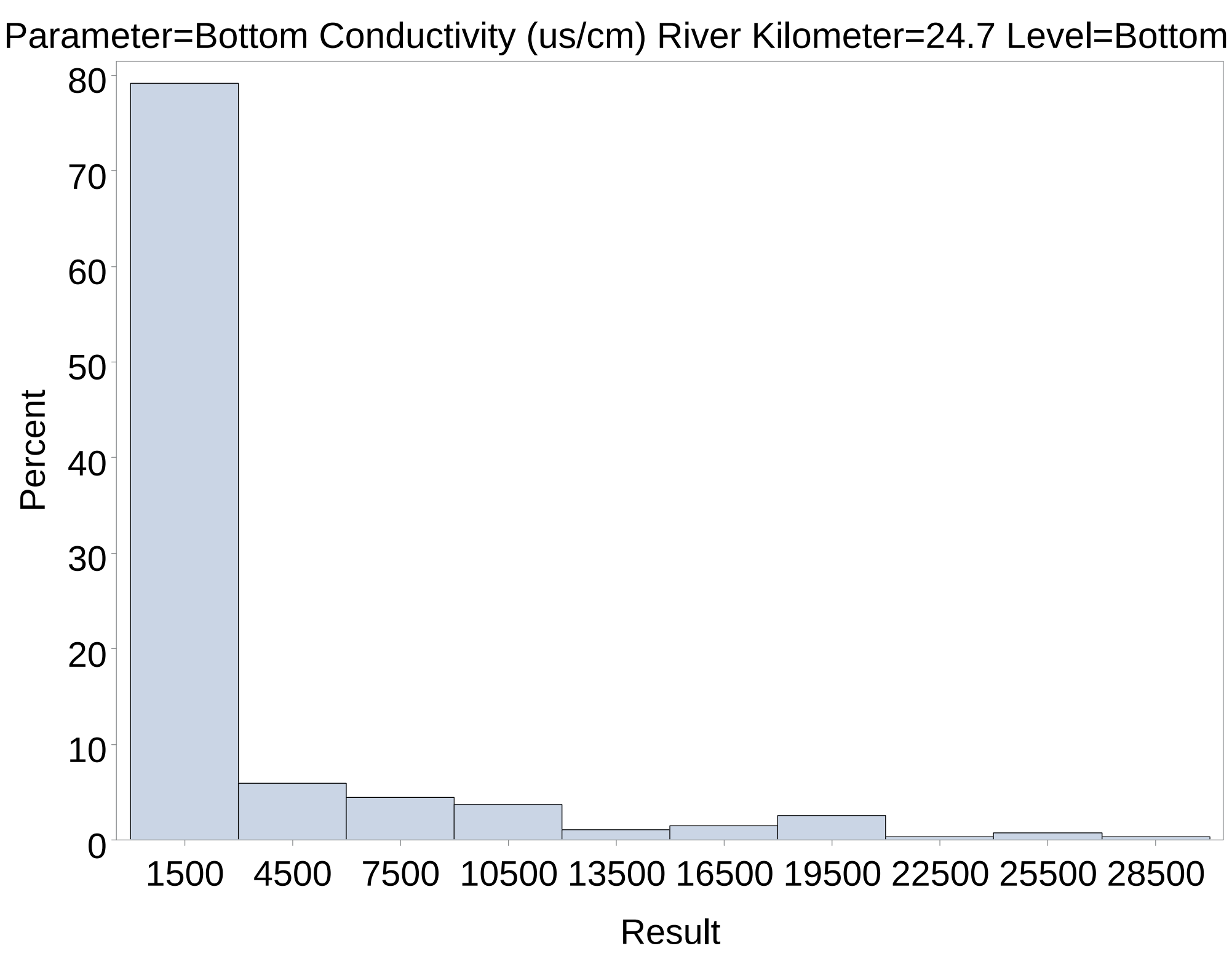
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.889554	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29848.0
99%	24943.0
95%	15895.0
90%	9090.0
75% Q3	2056.0
50% Median	557.8
25% Q1	361.8
10%	264.0
5%	213.2
1%	130.0
0% Min	78.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=24.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
78.0	16029	20927	16162
109.0	16025	21958	16067
130.0	16028	24943	16151
138.3	16026	26900	16055
145.5	16120	29848	16199


Parameter=Bottom Conductivity (us/cm) River Kilometer=24.7 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
1500
4500
7500
10500
13500
16500
19500
22500
25500
28500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=25.9 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	1871.85784	**Sum Observations**	501657.9
Std Deviation	3837.61881	**Variance**	14727318.1
Skewness	3.45927482	**Kurtosis**	12.5906676
Uncorrected SS	4871226209	**Corrected SS**	3932193938
Coeff Variation	205.016574	**Std Error Mean**	234.419879

Basic Statistical Measures			
Location		**Variability**	
Mean	1871.858	**Std Deviation**	3838
Median	501.500	**Variance**	14727318
Mode	268.000	**Range**	23982
		Interquartile Range	574.40000

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

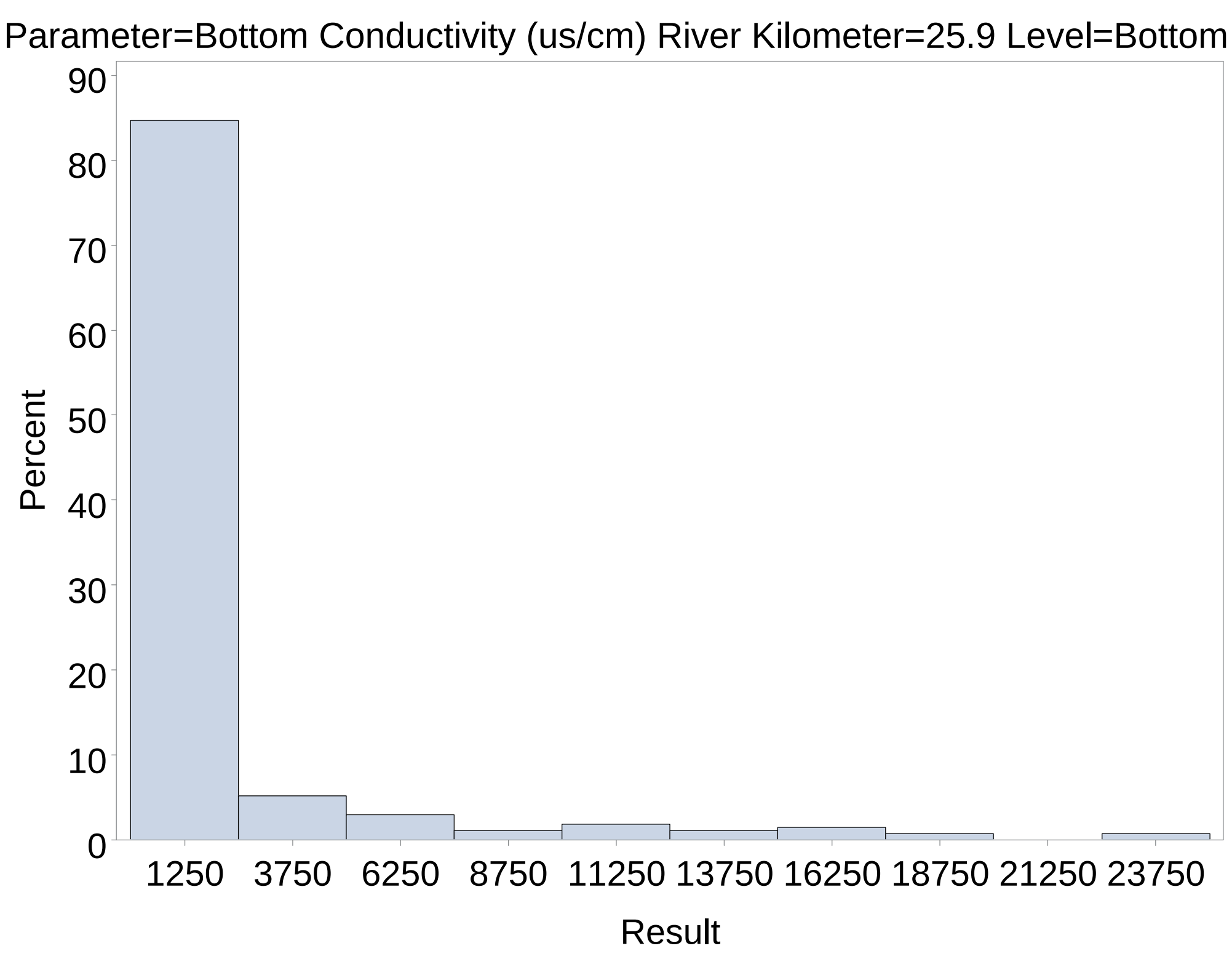
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.985064	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24089.0
99%	18619.0
95%	11603.0
90%	5009.0
75% Q3	929.3
50% Median	501.5
25% Q1	354.9
10%	268.0
5%	218.0
1%	136.6
0% Min	107.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=25.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
107.0	16294	16650	16335
128.0	16297	18517	16419
136.6	16295	18619	16430
146.6	16388	23600	16323
158.7	16374	24089	16467


Parameter=Bottom Conductivity (us/cm) River Kilometer=25.9 Level=Bottom
Percent
90
80
70
60
50
40
30
20
10
0
1250
3750
6250
8750
11250
13750
16250
18750
21250
23750
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=29.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	968.496654	**Sum Observations**	260525.6
Std Deviation	1952.0543	**Variance**	3810516
Skewness	5.04792405	**Kurtosis**	28.9012902
Uncorrected SS	1273536459	**Corrected SS**	1021218287
Coeff Variation	201.55509	**Std Error Mean**	119.018851

Basic Statistical Measures			
Location		**Variability**	
Mean	968.4967	**Std Deviation**	1952
Median	486.0000	**Variance**	3810516
Mode	449.0000	**Range**	16714
		Interquartile Range	304.10000

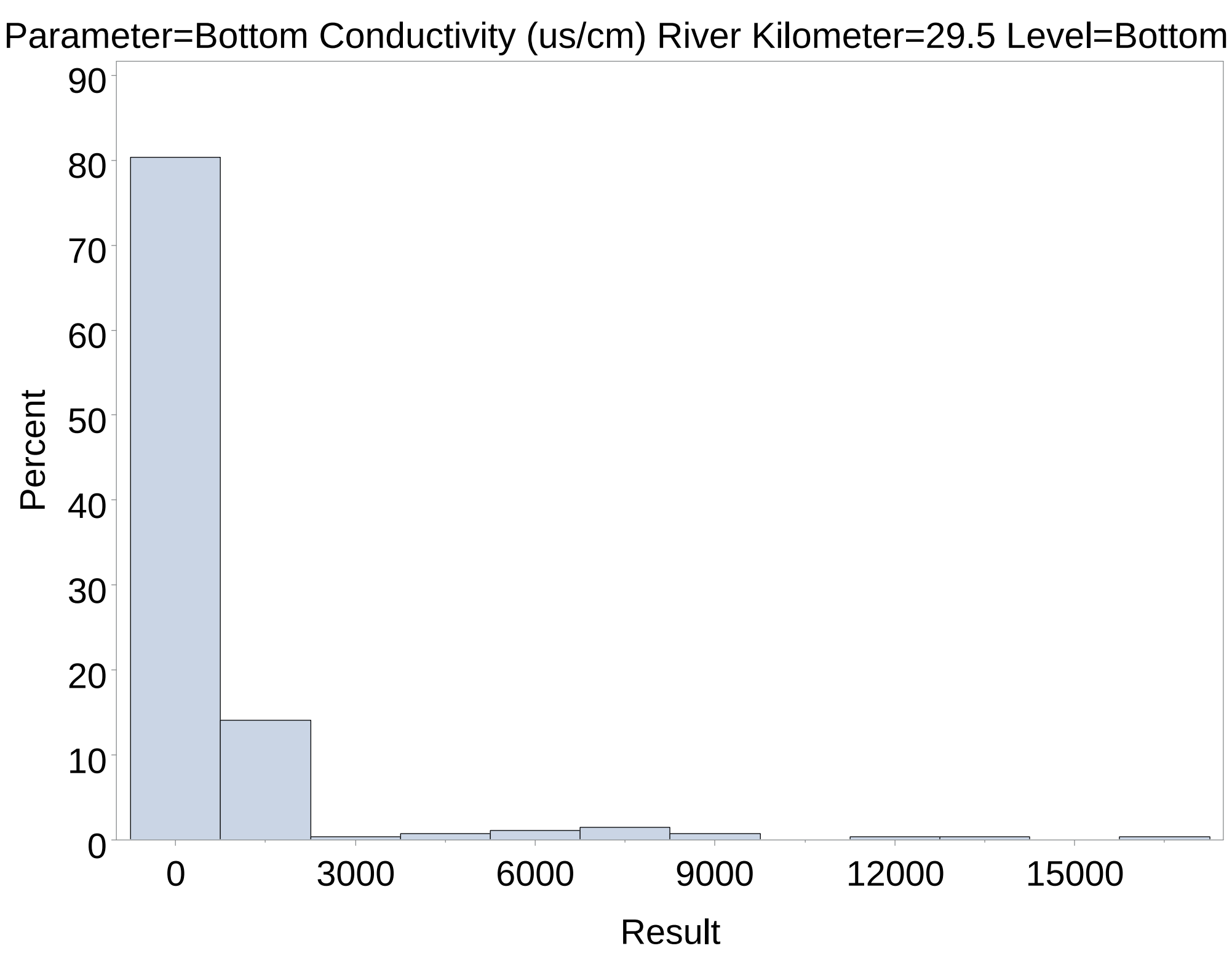
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.137338	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16800.0
99%	11783.0
95%	4869.0
90%	1287.0
75% Q3	661.0
50% Median	486.0
25% Q1	356.9
10%	267.0
5%	215.8
1%	135.0
0% Min	86.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=29.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
86.0	16566	8296	16604
109.0	16562	9356	16699
135.0	16565	11783	16688
138.2	16563	13758	16736
145.5	16657	16800	16592


Parameter=Bottom Conductivity (us/cm) River Kilometer=29.5 Level=Bottom
Percent
90
80
70
60
50
40
30
20
10
0
0
3000
6000
9000
12000
15000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=30.7 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	817.01519	**Sum Observations**	258176.8
Std Deviation	1565.64659	**Variance**	2451249.24
Skewness	6.0019523	**Kurtosis**	41.7116269
Uncorrected SS	983077878	**Corrected SS**	772143510
Coeff Variation	191.630046	**Std Error Mean**	88.0745017

Basic Statistical Measures			
Location		**Variability**	
Mean	817.0152	**Std Deviation**	1566
Median	470.1500	**Variance**	2451249
Mode	265.0000	**Range**	14417
		Interquartile Range	287.45000

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

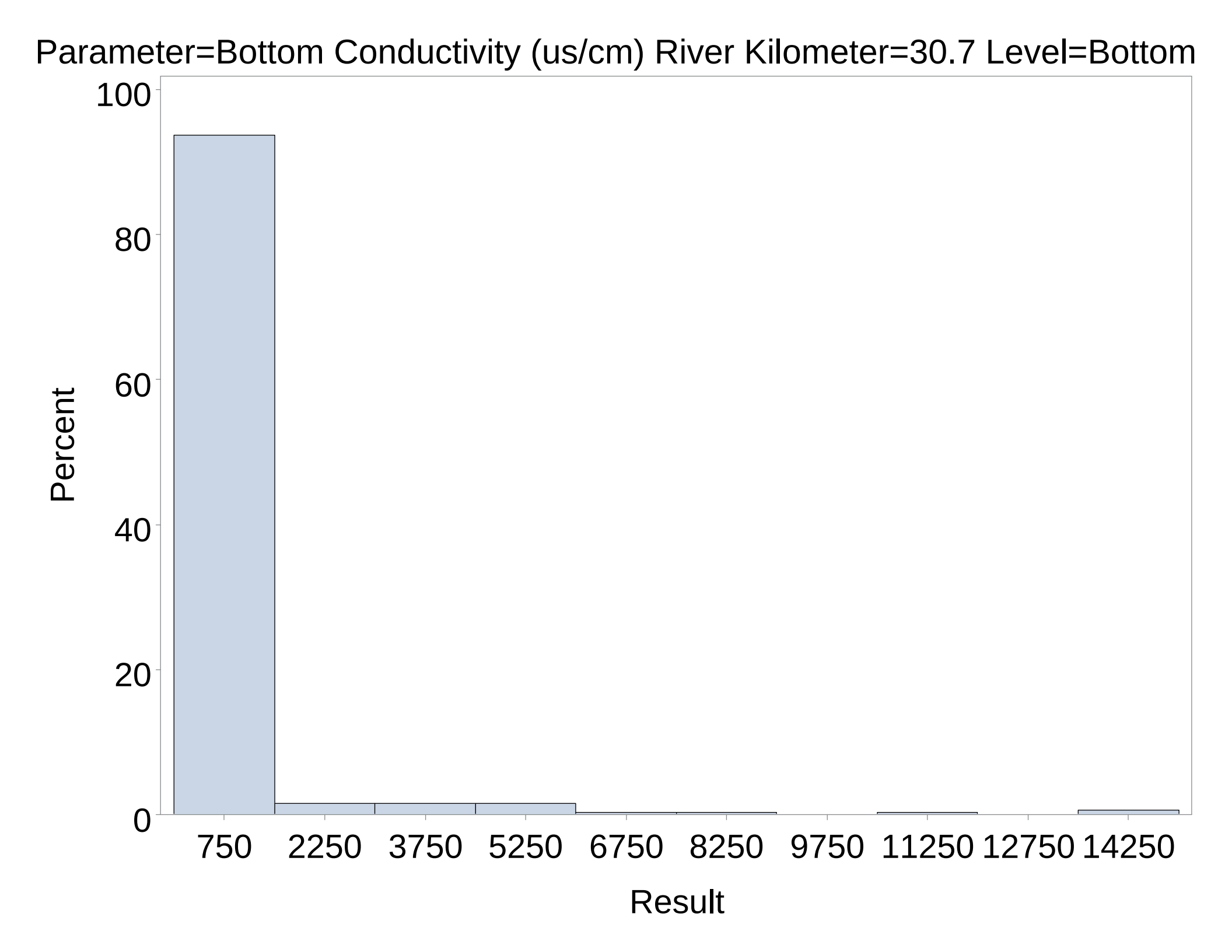
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.27641	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14500.00
99%	8471.00
95%	2840.00
90%	1001.00
75% Q3	624.25
50% Median	470.15
25% Q1	336.80
10%	256.00
5%	204.00
1%	117.00
0% Min	83.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
83	16855	6386	17015
89	16854	8471	17004
110	16846	11729	17052
117	16847	13600	16907
139	16852	14500	16906


Parameter=Bottom Conductivity (us/cm) River Kilometer=30.7 Level=Bottom
100
80
60
40
20
0
Percent
750
2250
3750
5250
6750
8250
9750
11250
12750
14250
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=32.3 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	649.8	**Sum Observations**	173496.6
Std Deviation	900.077779	**Variance**	810140.008
Skewness	7.49042402	**Kurtosis**	69.1599988
Uncorrected SS	328235333	**Corrected SS**	215497242
Coeff Variation	138.516125	**Std Error Mean**	55.0838655

Basic Statistical Measures			
Location		**Variability**	
Mean	649.8000	**Std Deviation**	900.07778
Median	487.0000	**Variance**	810140
Mode	267.0000	**Range**	10486
		Interquartile Range	273.00000

Note: The mode displayed is the smallest of 14 modes with a count of 2.

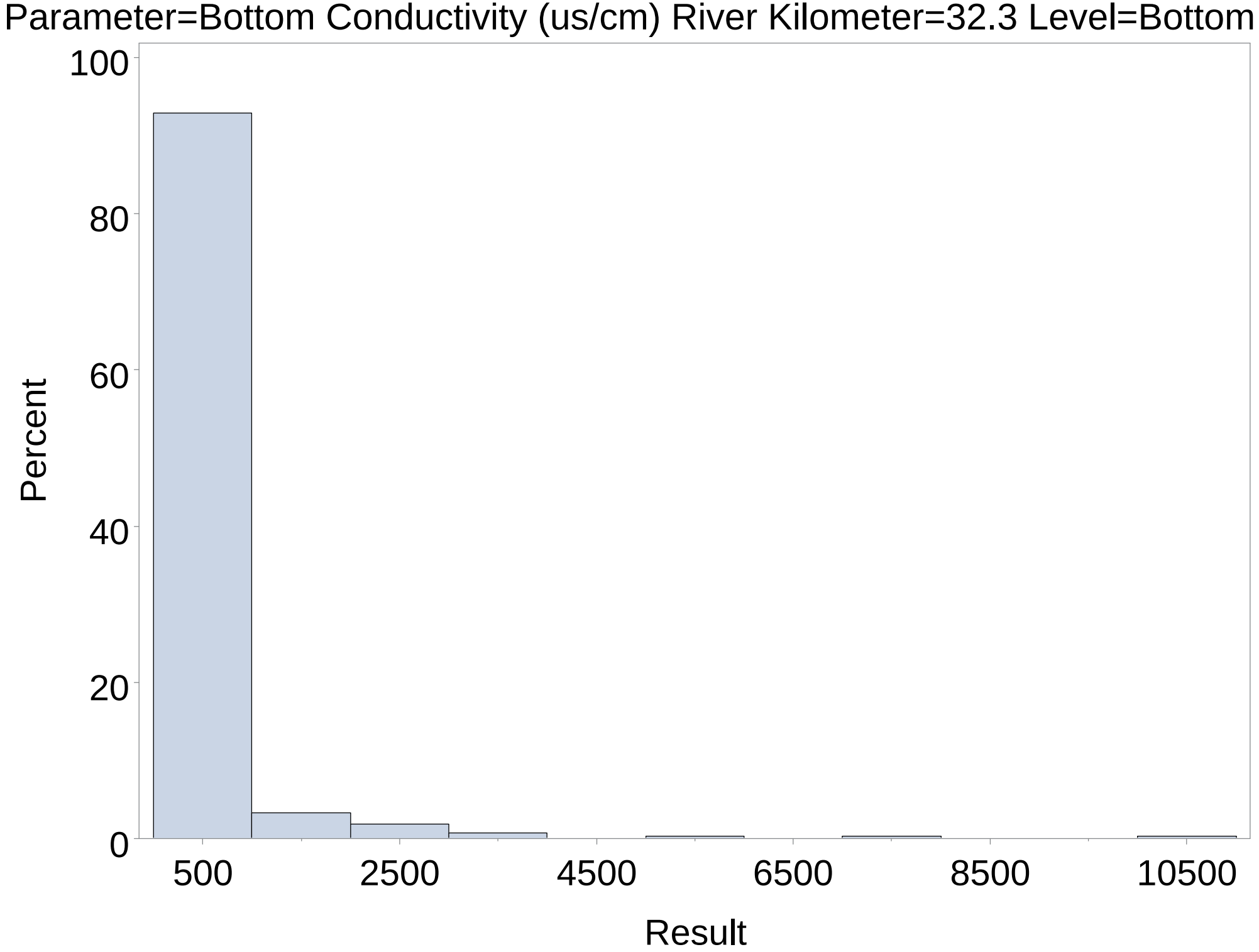
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.79656	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10600.0
99%	5201.0
95%	1209.0
90%	878.0
75% Q3	627.0
50% Median	487.0
25% Q1	354.0
10%	267.0
5%	221.4
1%	147.8
0% Min	114.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Conductivity (us/cm) River Kilometer=32.3 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
114.0	17147	3054	17247
137.0	17149	3422	17282
147.8	17240	5201	17271
158.2	17226	7262	17319
166.1	17227	10600	17175


Parameter=Bottom Conductivity (us/cm) River Kilometer=32.3 Level=Bottom
Percent
100
80
60
40
20
0
500
2500
4500
6500
8500
10500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=-2.4 Level=Surface

Moments			
N	311	**Sum Weights**	311
Mean	39073.5363	**Sum Observations**	12151869.8
Std Deviation	12434.884	**Variance**	154626340
Skewness	-0.6532137	**Kurtosis**	0.16733426
Uncorrected SS	5.22751E11	**Corrected SS**	4.79342E10
Coeff Variation	31.8243117	**Std Error Mean**	705.117581

Basic Statistical Measures			
Location		**Variability**	
Mean	39073.54	**Std Deviation**	12435
Median	41219.00	**Variance**	154626340
Mode	24400.00	**Range**	64281
		Interquartile Range	15950

Note: The mode displayed is the smallest of 4 modes with a count of 2.

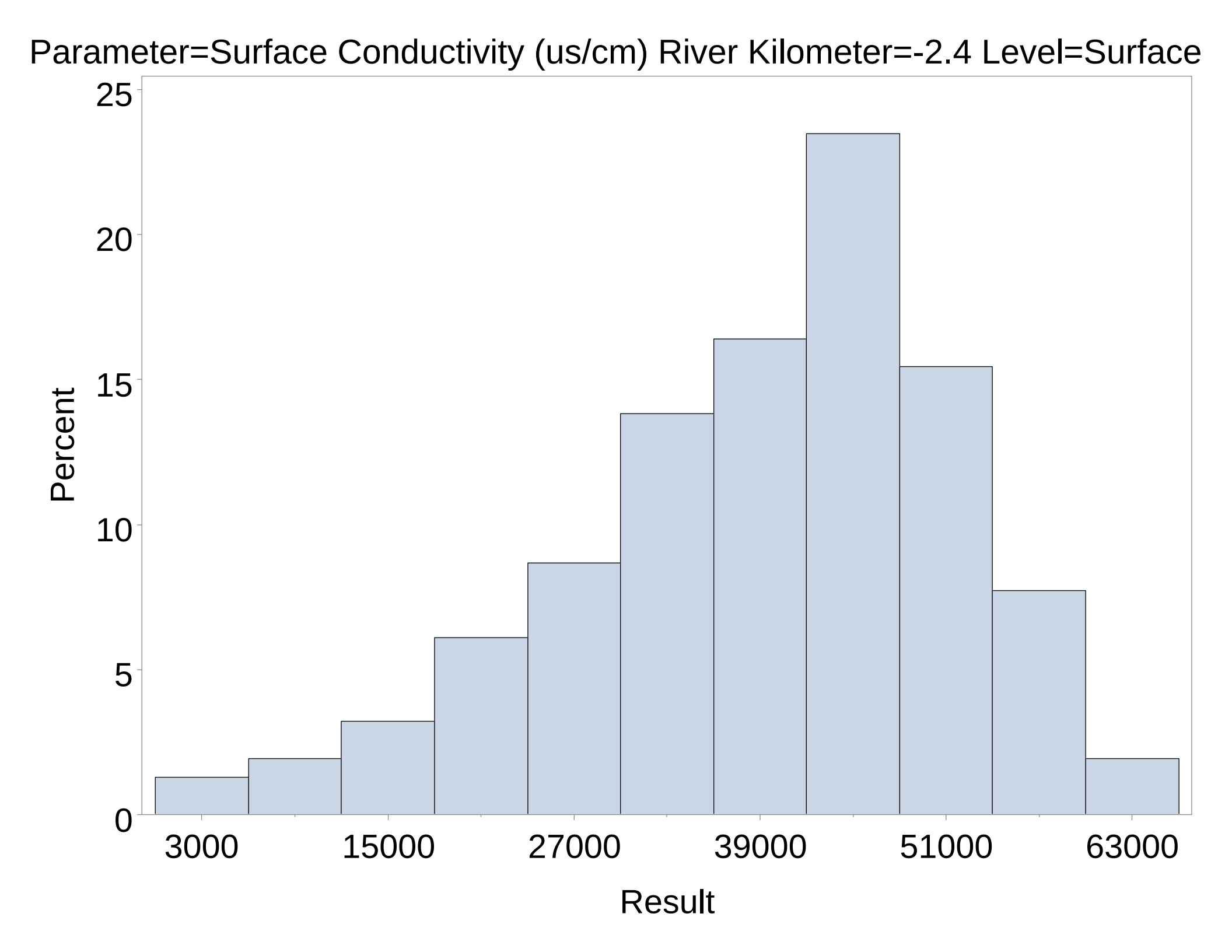
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.41421	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	64316.0
99%	62041.0
95%	56910.0
90%	53778.0
75% Q3	48051.0
50% Median	41219.0
25% Q1	32101.0
10%	20894.0
5%	16418.0
1%	5790.0
0% Min	34.8

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
34.8	17654	61261	17641
2915.0	17437	62041	17631
5076.0	17503	62672	17642
5790.0	17644	63199	17630
6915.0	17524	64316	17560


Parameter=Surface Conductivity (us/cm) River Kilometer=-2.4 Level=Surface
Percent
25
20
15
10
5
0
3000
15000
27000
39000
51000
63000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=6.6 Level=Surface

Moments			
N	315	**Sum Weights**	315
Mean	29554.3051	**Sum Observations**	9309606.1
Std Deviation	14375.1969	**Variance**	206646287
Skewness	-0.393329	**Kurtosis**	-0.6955733
Uncorrected SS	3.40026E11	**Corrected SS**	6.48869E10
Coeff Variation	48.6399423	**Std Error Mean**	809.95059

Basic Statistical Measures			
Location		**Variability**	
Mean	29554.31	**Std Deviation**	14375
Median	32116.00	**Variance**	206646287
Mode	31400.00	**Range**	57705
		Interquartile Range	20230

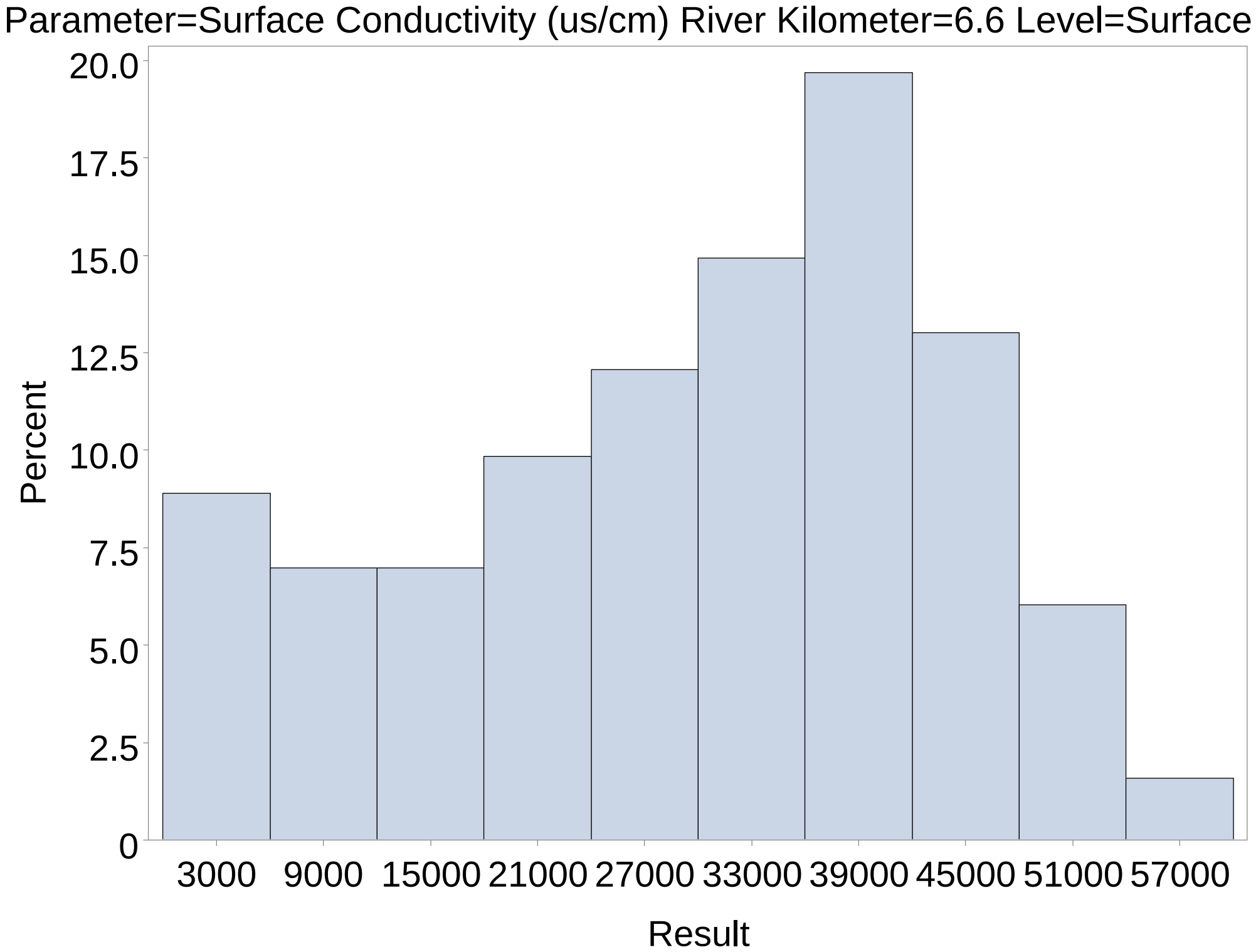
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.48902	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	57797
99%	55794
95%	50156
90%	46919
75% Q3	40189
50% Median	32116
25% Q1	19959
10%	8000
5%	1740
1%	206
0% Min	92

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
92	17748	54468	17946
139	17746	55794	17956
155	17745	57589	17874
206	17747	57690	17945
209	17741	57797	17957


Parameter=Surface Conductivity (us/cm) River Kilometer=6.6 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
3000
9000
15000
21000
27000
33000
39000
45000
51000
57000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=8.4 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	26423.4156	**Sum Observations**	7107898.8
Std Deviation	15305.7878	**Variance**	234267140
Skewness	-0.2110357	**Kurtosis**	-1.0205942
Uncorrected SS	2.50599E11	**Corrected SS**	6.27836E10
Coeff Variation	57.925092	**Std Error Mean**	933.210352

Basic Statistical Measures			
Location		**Variability**	
Mean	26423.42	**Std Deviation**	15306
Median	29095.00	**Variance**	234267140
Mode	.	**Range**	59143
		Interquartile Range	24583

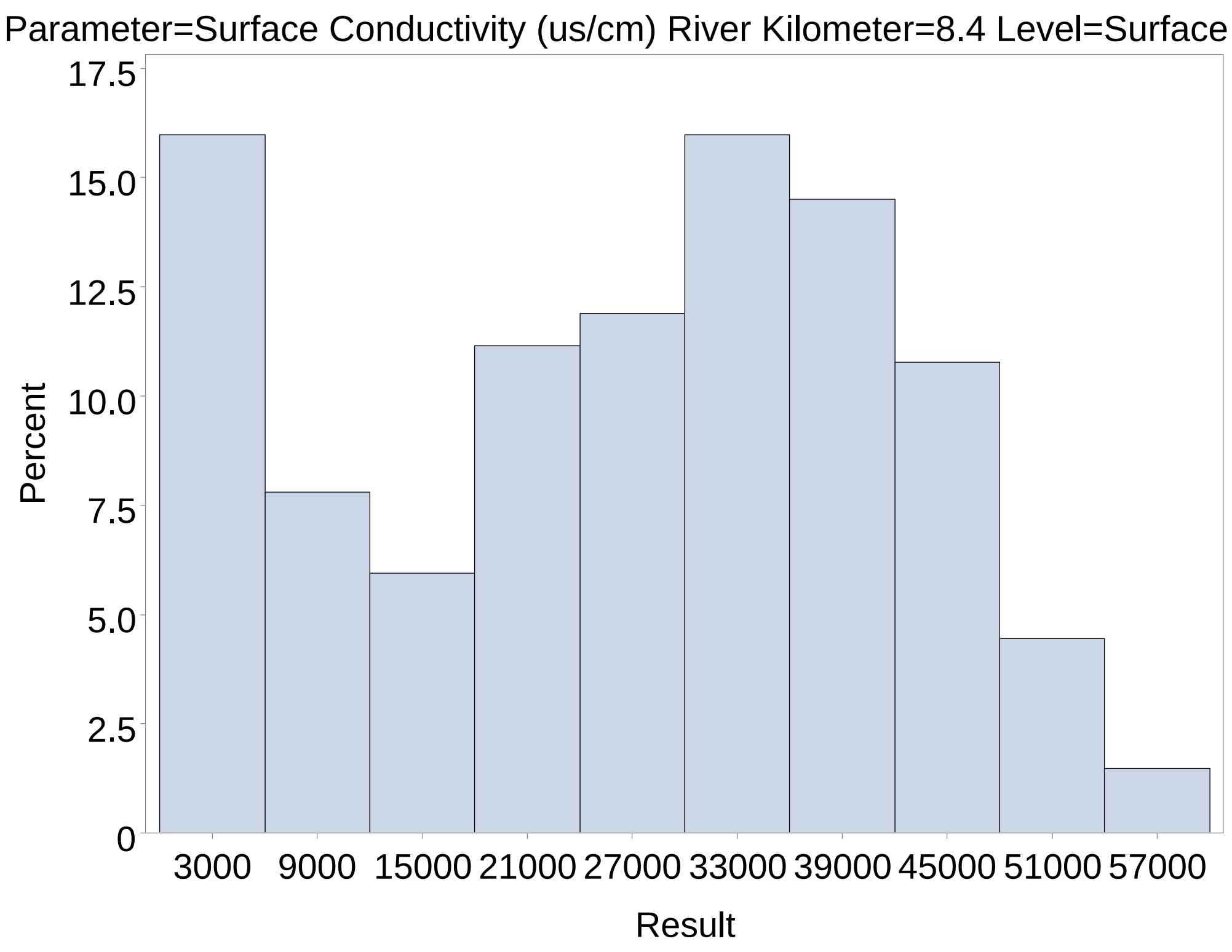
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.31453	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	59235
99%	55012
95%	48285
90%	45746
75% Q3	38787
50% Median	29095
25% Q1	14204
10%	3219
5%	410
1%	163
0% Min	92

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=8.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
92	18044	53137	18082
136	18043	54364	18225
163	18041	55012	18214
224	18086	55780	18226
230	18121	59235	18143


Parameter=Surface Conductivity (us/cm) River Kilometer=8.4 Level=Surface
Percent
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
3000
9000
15000
21000
27000
33000
39000
45000
51000
57000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=10.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	21178.3684	**Sum Observations**	5696981.1
Std Deviation	14209.5054	**Variance**	201910042
Skewness	0.04861254	**Kurtosis**	-1.1184632
Uncorrected SS	1.74765E11	**Corrected SS**	5.41119E10
Coeff Variation	67.094429	**Std Error Mean**	866.368832

Basic Statistical Measures			
Location		**Variability**	
Mean	21178.37	**Std Deviation**	14210
Median	21629.00	**Variance**	201910042
Mode	20500.00	**Range**	52355
		Interquartile Range	24459

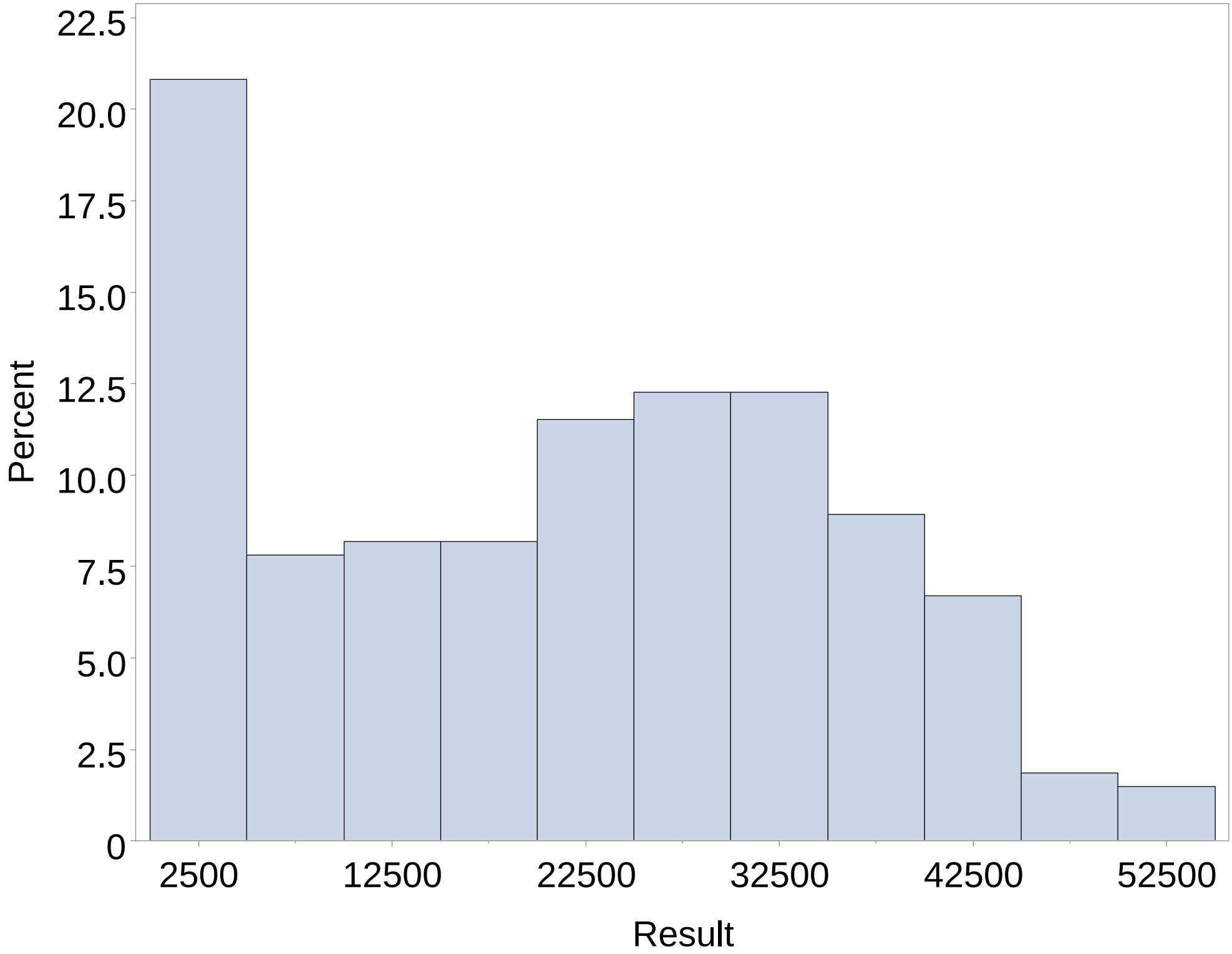
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.44498	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	52465
99%	50345
95%	43241
90%	40000
75% Q3	32789
50% Median	21629
25% Q1	8330
10%	1404
5%	425
1%	209
0% Min	110

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=10.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
110.0	18313	49129	18351
173.0	18310	50342	18494
209.0	18312	50345	18495
226.2	18415	50359	18483
248.0	18355	52465	18412


22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
Percent
2500
12500
22500
32500
42500
52500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=12.7 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	16035.5327	**Sum Observations**	4313558.3
Std Deviation	12852.4522	**Variance**	165185527
Skewness	0.33147557	**Kurtosis**	-1.0330661
Uncorrected SS	1.1344E11	**Corrected SS**	4.42697E10
Coeff Variation	80.1498297	**Std Error Mean**	783.627839

Basic Statistical Measures			
Location		**Variability**	
Mean	16035.53	**Std Deviation**	12852
Median	15750.00	**Variance**	165185527
Mode	213.30	**Range**	47162
		Interquartile Range	23782

Note: The mode displayed is the smallest of 8 modes with a count of 2.

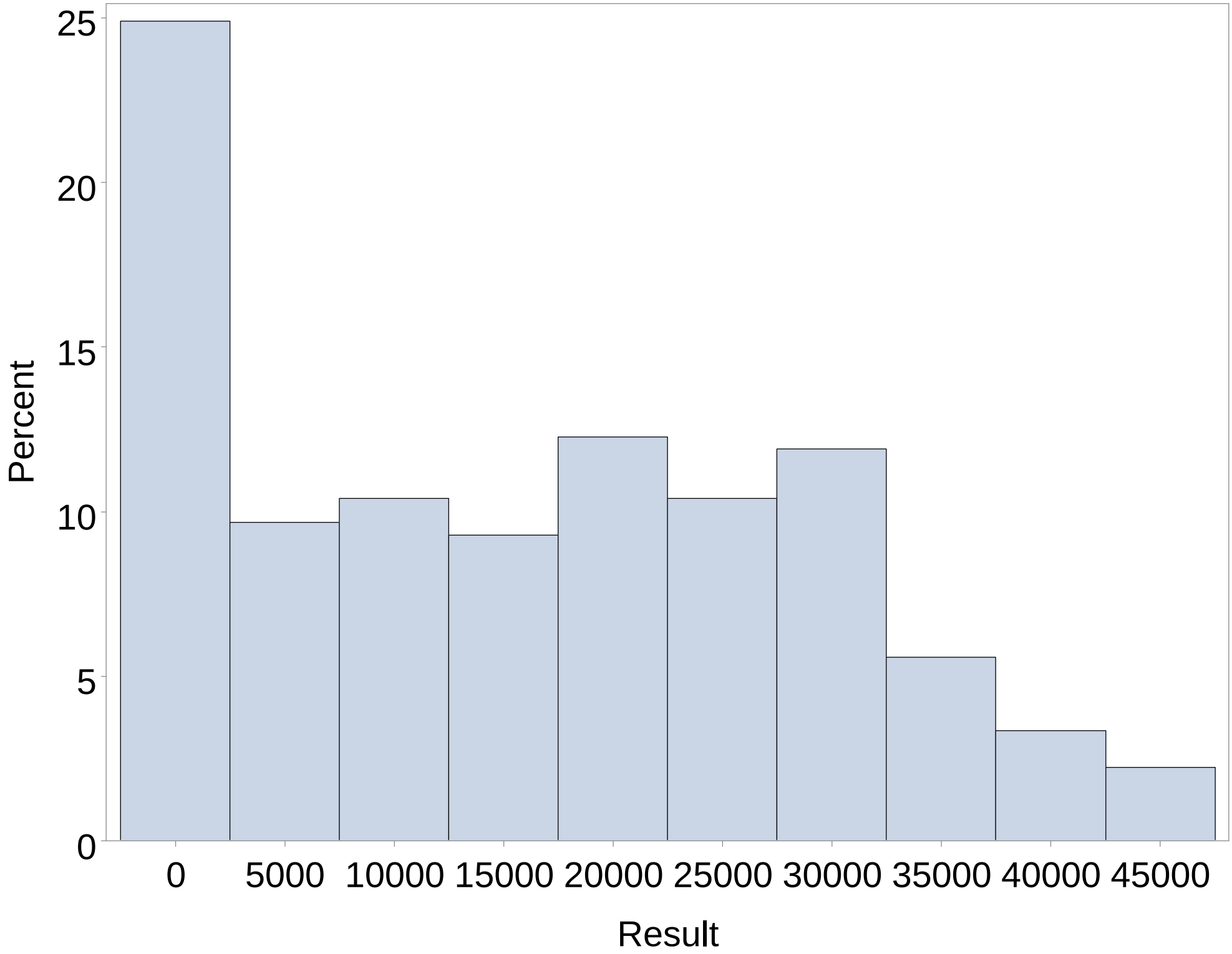
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.4632	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	47245.0
99%	43190.0
95%	38699.0
90%	34178.0
75% Q3	26331.0
50% Median	15750.0
25% Q1	2549.0
10%	388.9
5%	300.1
1%	131.0
0% Min	83.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=12.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
83.0	18582	42991	18764
109.0	18578	43153	18704
131.0	18581	43190	18812
149.1	18579	44762	18620
197.1	18660	47245	18752


25
20
15
10
5
0
Percent
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=12.8 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	15458.7695	**Sum Observations**	4158409
Std Deviation	12837.4842	**Variance**	164801001
Skewness	0.38330533	**Kurtosis**	-0.97756
Uncorrected SS	1.08451E11	**Corrected SS**	4.41667E10
Coeff Variation	83.0433768	**Std Error Mean**	782.715227

Basic Statistical Measures			
Location		**Variability**	
Mean	15458.77	**Std Deviation**	12837
Median	14317.00	**Variance**	164801001
Mode	167.40	**Range**	45621
		Interquartile Range	23486

Note: The mode displayed is the smallest of 4 modes with a count of 2.

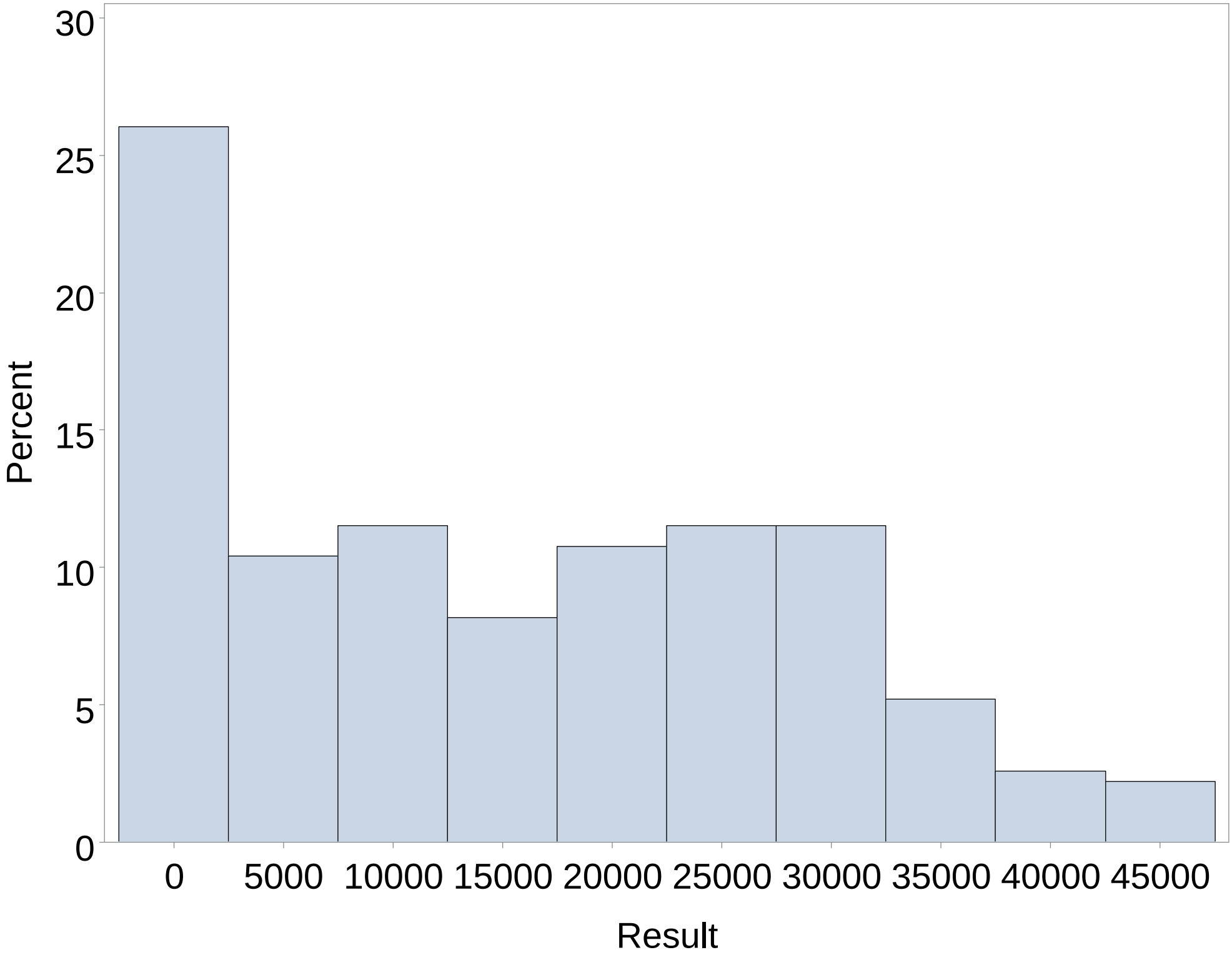
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.75018	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45728.0
99%	45636.0
95%	37368.0
90%	32725.0
75% Q3	25669.0
50% Median	14317.0
25% Q1	2183.0
10%	335.0
5%	239.0
1%	167.4
0% Min	107.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=12.8 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
107.0	18851	44507	19033
127.0	18847	44790	18973
167.4	18942	45636	18889
167.4	18929	45654	19021
170.0	18848	45728	18950


30
25
20
15
10
5
0
Percent
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=15.5 Level=Surface

Moments			
N	316	**Sum Weights**	316
Mean	11803.2729	**Sum Observations**	3729834.25
Std Deviation	11497.4822	**Variance**	132192097
Skewness	0.72012043	**Kurtosis**	-0.5419466
Uncorrected SS	8.56648E10	**Corrected SS**	4.16405E10
Coeff Variation	97.4092718	**Std Error Mean**	646.783907

Basic Statistical Measures			
Location		**Variability**	
Mean	11803.27	**Std Deviation**	11497
Median	8537.00	**Variance**	132192097
Mode	87.00	**Range**	44213
		Interquartile Range	19489

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

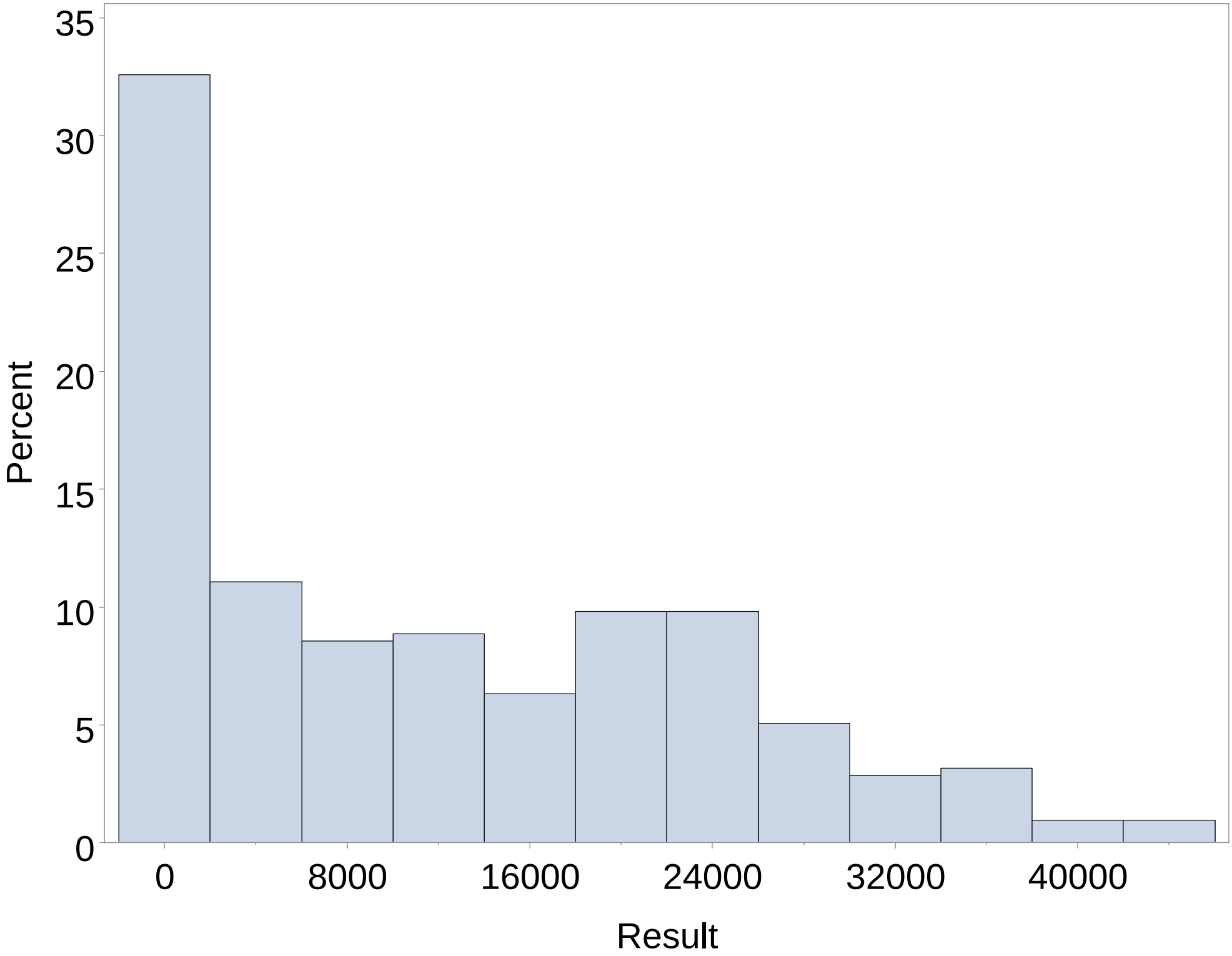
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.24918	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	44300.000
99%	40100.000
95%	34100.000
90%	27935.000
75% Q3	20221.000
50% Median	8537.000
25% Q1	732.000
10%	281.000
5%	210.900
1%	112.333
0% Min	87.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
87.000	19140	39800	19192
87.000	19139	40100	19191
105.000	19131	42116	19205
112.333	19132	43174	19289
123.000	19137	44300	19337


35
30
25
20
15
10
5
0
Percent
0
8000
16000
24000
32000
40000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=17.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	9568.05613	**Sum Observations**	2573807.1
Std Deviation	10476.7587	**Variance**	109762474
Skewness	0.99426039	**Kurtosis**	0.02826681
Uncorrected SS	5.40427E10	**Corrected SS**	2.94163E10
Coeff Variation	109.497254	**Std Error Mean**	638.779255

Basic Statistical Measures			
Location		**Variability**	
Mean	9568.056	**Std Deviation**	10477
Median	5500.000	**Variance**	109762474
Mode	247.000	**Range**	42803
		Interquartile Range	16534

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

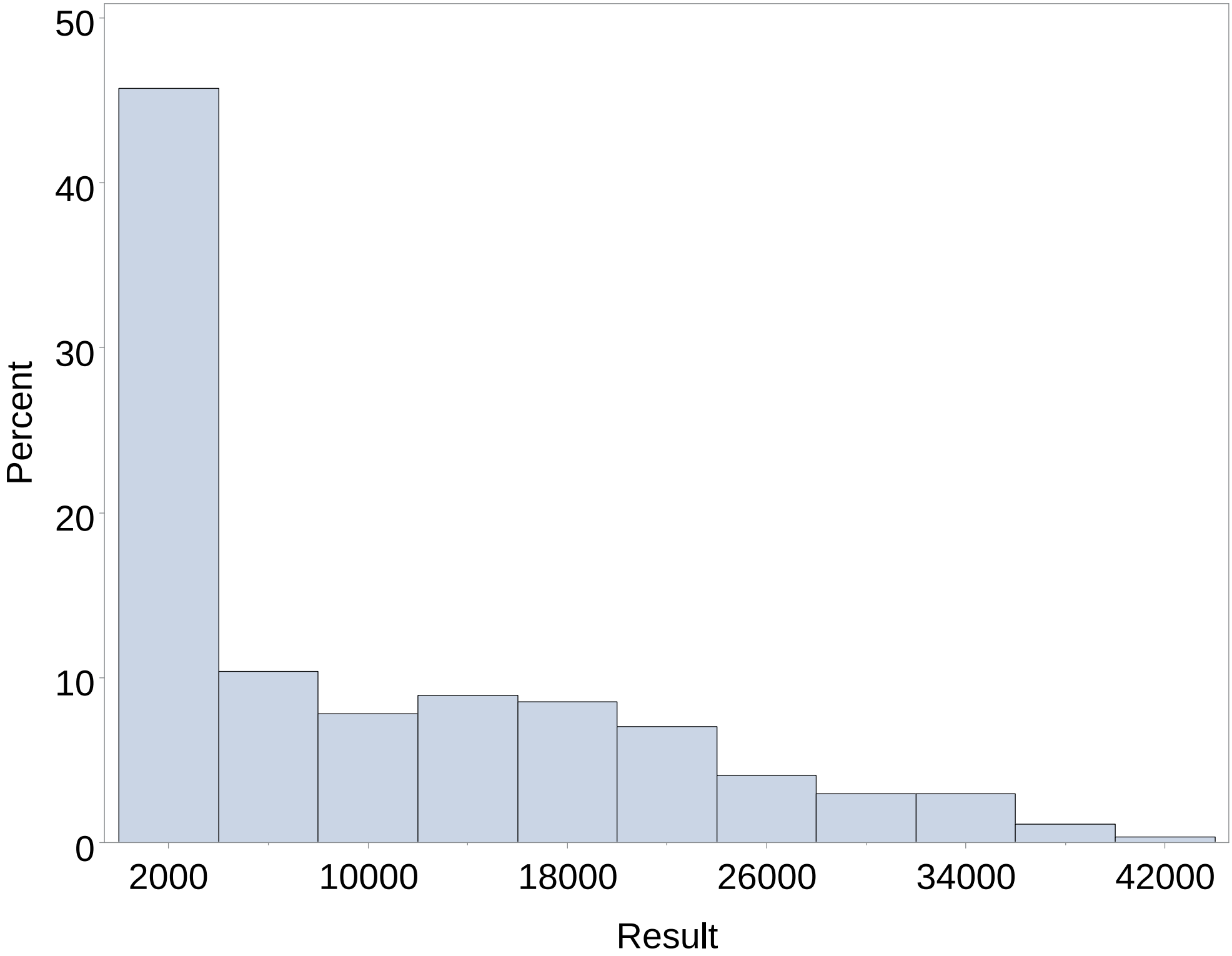
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.97866	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42884.0
99%	38524.0
95%	31233.0
90%	25090.0
75% Q3	16998.0
50% Median	5500.0
25% Q1	464.0
10%	291.4
5%	227.0
1%	134.0
0% Min	81.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=17.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
81.0	19436	35608	19666
108.0	19432	36700	19462
134.0	19435	38524	19474
143.5	19433	39601	19558
144.4	19527	42884	19606


50
40
30
20
10
0
Percent
2000
10000
18000
26000
34000
42000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=20.1 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	7150.27918	**Sum Observations**	1923425.1
Std Deviation	8926.28051	**Variance**	79678483.7
Skewness	1.31854456	**Kurtosis**	0.90964854
Uncorrected SS	3.51069E10	**Corrected SS**	2.13538E10
Coeff Variation	124.83821	**Std Error Mean**	544.244928

Basic Statistical Measures			
Location		**Variability**	
Mean	7150.279	**Std Deviation**	8926
Median	2272.000	**Variance**	79678484
Mode	270.000	**Range**	37866
		Interquartile Range	11760

Note: The mode displayed is the smallest of 4 modes with a count of 2.

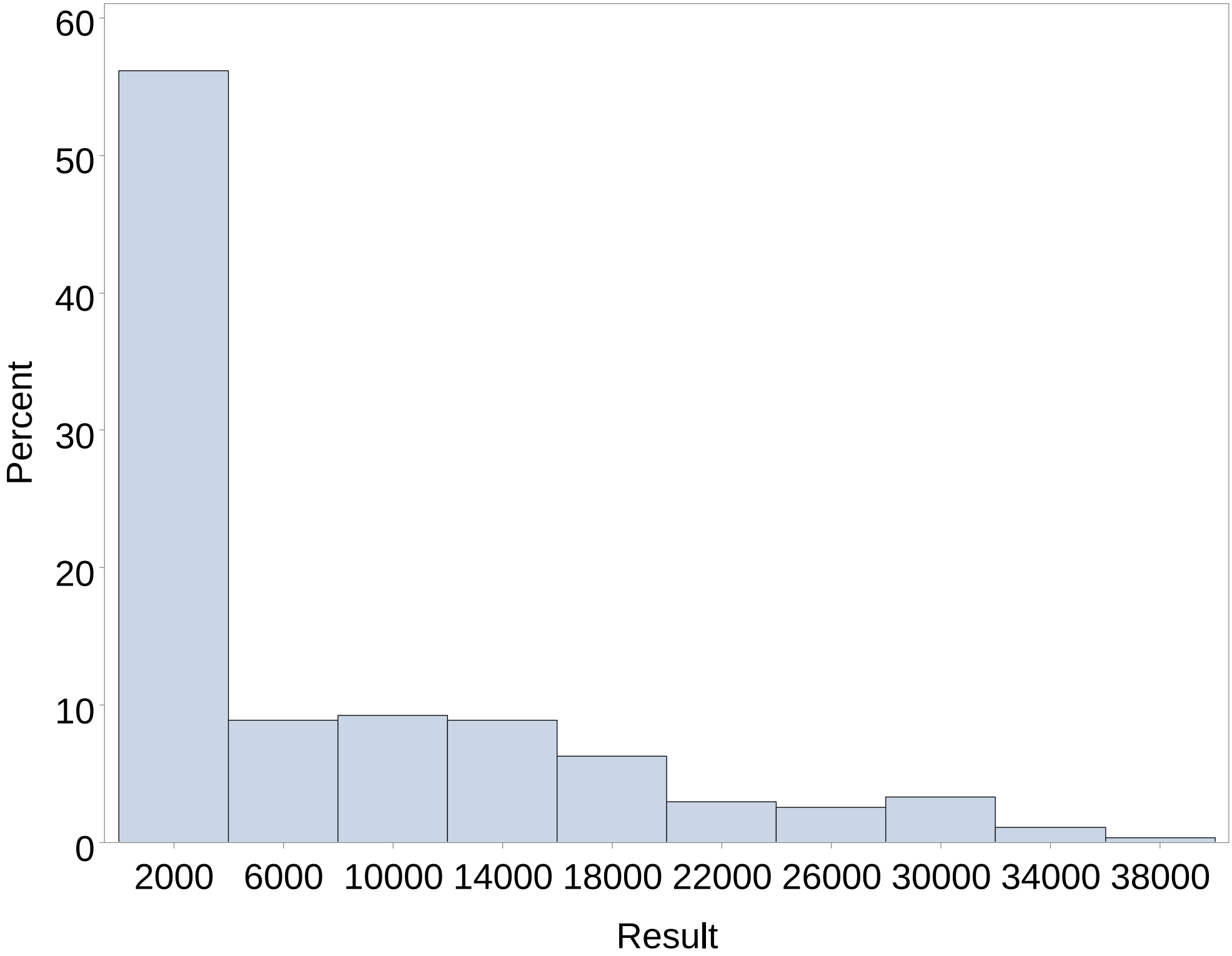
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.13798	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37948.0
99%	34579.0
95%	27992.0
90%	20226.0
75% Q3	12170.0
50% Median	2272.0
25% Q1	410.4
10%	270.2
5%	222.0
1%	130.0
0% Min	82.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=20.1 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
82.0	19705	30777	19935
109.0	19701	34500	19731
130.0	19704	34579	19743
141.3	19702	35075	19827
144.1	19796	37948	19875


60
50
40
30
20
10
0
Percent
2000
6000
10000
14000
18000
22000
26000
30000
34000
38000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=21.9 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	4458.22156	**Sum Observations**	1199261.6
Std Deviation	6670.18225	**Variance**	44491331.2
Skewness	1.94264362	**Kurtosis**	3.38919969
Uncorrected SS	1.72703E10	**Corrected SS**	1.19237E10
Coeff Variation	149.615315	**Std Error Mean**	406.688189

Basic Statistical Measures			
Location		**Variability**	
Mean	4458.222	**Std Deviation**	6670
Median	718.000	**Variance**	44491331
Mode	273.000	**Range**	34116
		Interquartile Range	5868

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

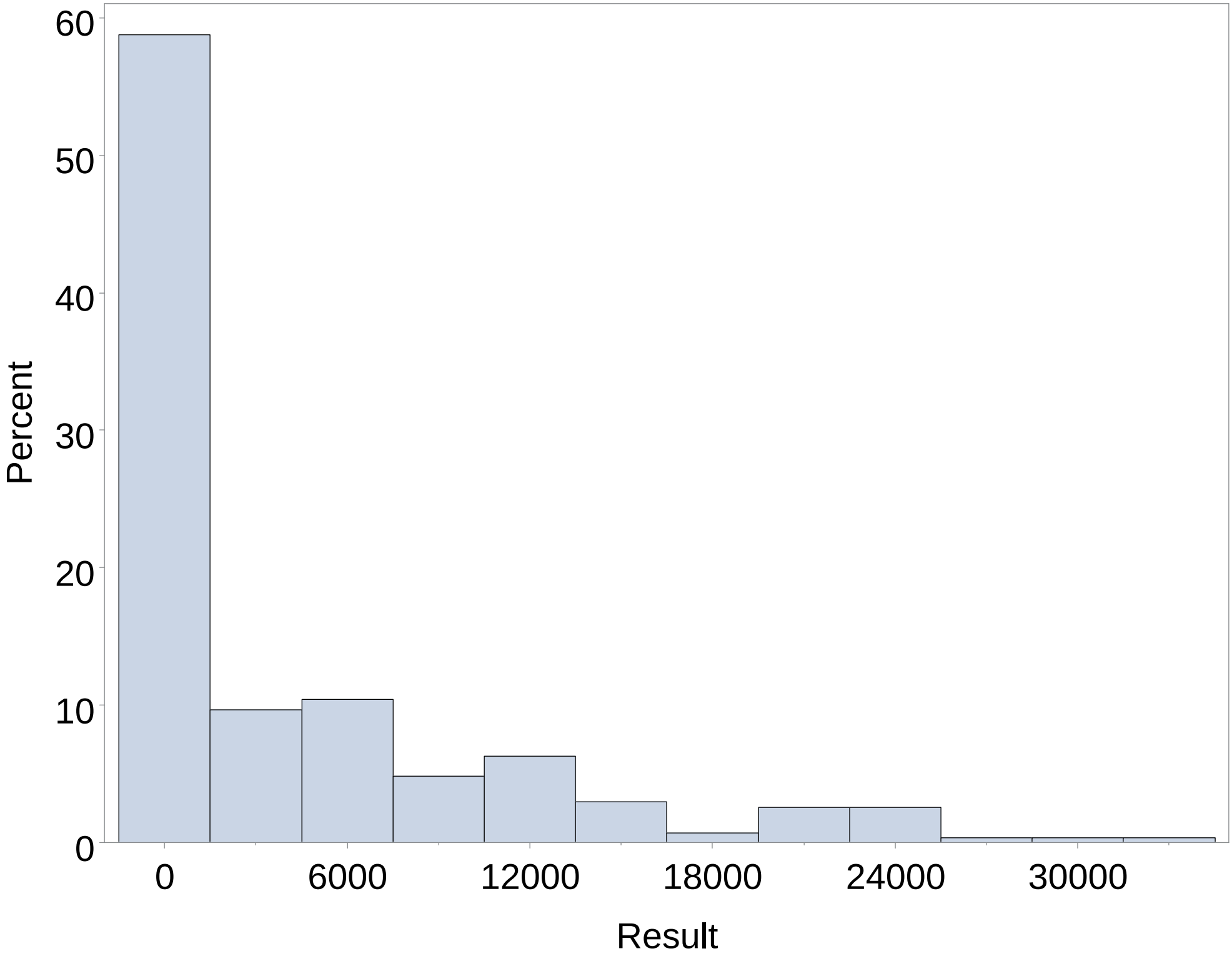
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.96226	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34197
99%	26279
95%	20541
90%	13874
75% Q3	6240
50% Median	718
25% Q1	372
10%	265
5%	220
1%	132
0% Min	81

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=21.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
81.0	19974	24522	20072
109.0	19970	25269	20012
132.0	19973	26279	20096
141.8	19971	30400	20000
144.5	20065	34197	20144


60
50
40
30
20
10
0
Percent
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=23.6 Level=Surface

Moments			
N	315	**Sum Weights**	315
Mean	3203.18825	**Sum Observations**	1009004.3
Std Deviation	5603.23444	**Variance**	31396236.1
Skewness	2.59425024	**Kurtosis**	6.63882187
Uncorrected SS	1.30904E10	**Corrected SS**	9858418148
Coeff Variation	174.926791	**Std Error Mean**	315.706495

Basic Statistical Measures			
Location		**Variability**	
Mean	3203.188	**Std Deviation**	5603
Median	577.000	**Variance**	31396236
Mode	274.000	**Range**	29138
		Interquartile Range	2689

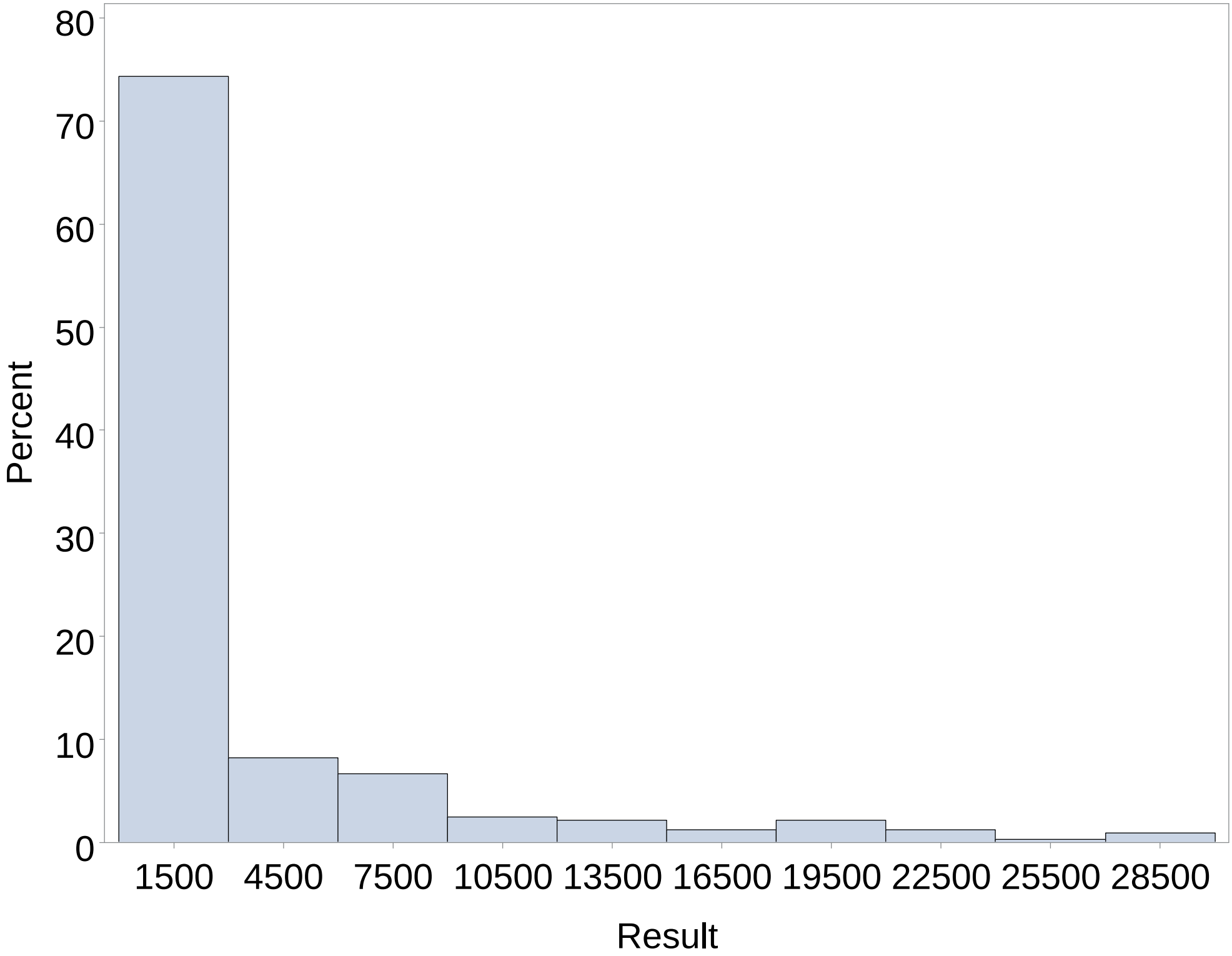
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.1461	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29222.0
99%	26371.0
95%	17697.0
90%	9676.0
75% Q3	3042.0
50% Median	577.0
25% Q1	353.0
10%	262.0
5%	209.6
1%	122.0
0% Min	84.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
84	20262	23044	20327
97	20254	26371	20411
109	20255	28100	20314
122	20260	28900	20313
132	20261	29222	20459


80
70
60
50
40
30
20
10
0
Percent
1500
4500
7500
10500
13500
16500
19500
22500
25500
28500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=24.7 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	2471.72714	**Sum Observations**	664894.6
Std Deviation	4660.6982	**Variance**	21722107.7
Skewness	2.99205293	**Kurtosis**	9.21177125
Uncorrected SS	7464962888	**Corrected SS**	5821524861
Coeff Variation	188.560385	**Std Error Mean**	284.167784

Basic Statistical Measures			
Location		**Variability**	
Mean	2471.727	**Std Deviation**	4661
Median	557.600	**Variance**	21722108
Mode	275.000	**Range**	26569
		Interquartile Range	1360

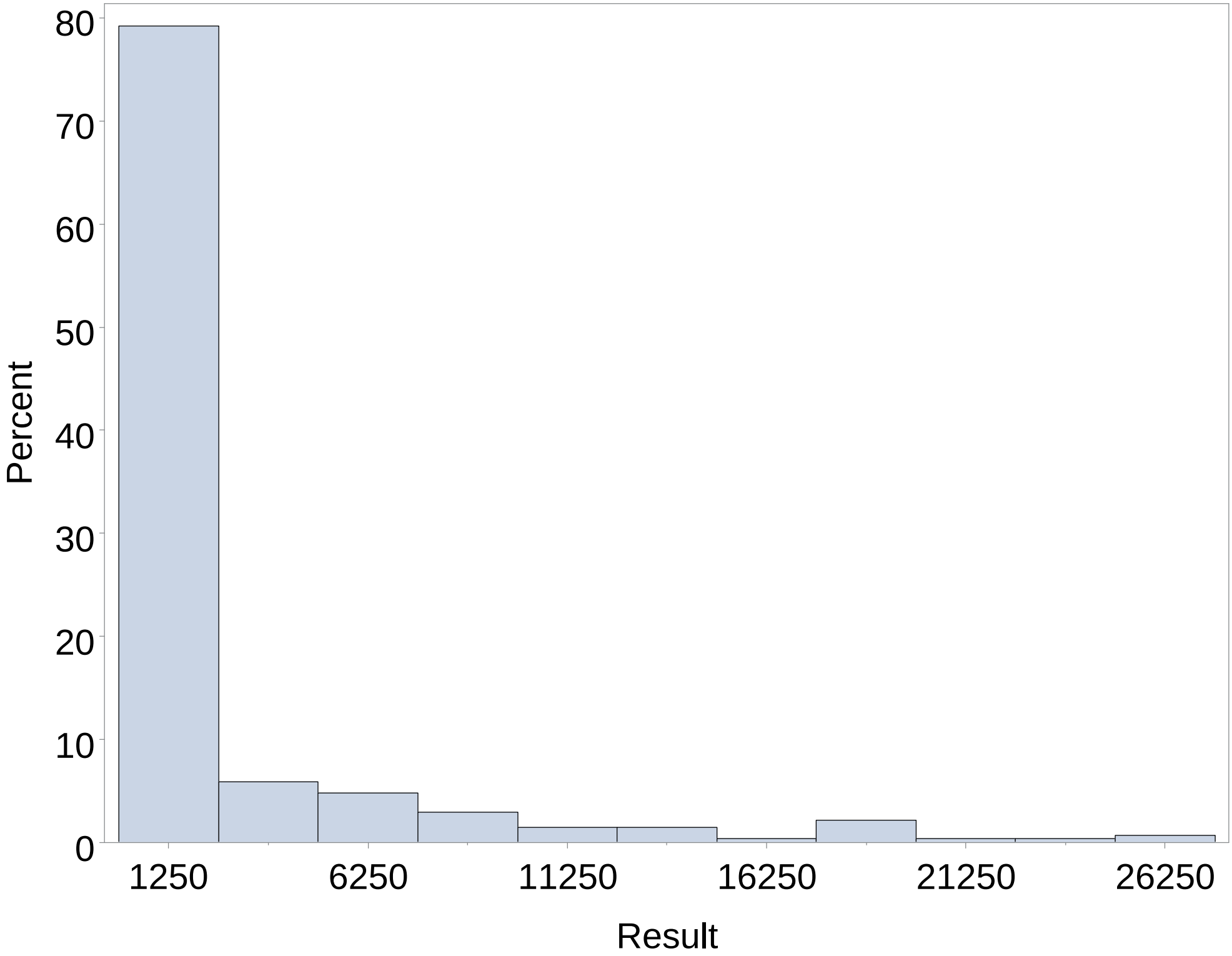
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.698126	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26642.0
99%	23331.0
95%	13741.0
90%	7585.0
75% Q3	1714.0
50% Median	557.6
25% Q1	353.8
10%	262.0
5%	212.5
1%	130.0
0% Min	73.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=24.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
73.0	20558	19318	20596
109.0	20554	20548	20691
130.0	20557	23331	20680
138.4	20555	26200	20584
144.4	20649	26642	20728


80
70
60
50
40
30
20
10
0
Percent
1250
6250
11250
16250
21250
26250
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=25.9 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	1756.81701	**Sum Observations**	470826.96
Std Deviation	3629.33327	**Variance**	13172060
Skewness	3.60463856	**Kurtosis**	13.82071
Uncorrected SS	4344096823	**Corrected SS**	3516940008
Coeff Variation	206.585731	**Std Error Mean**	221.696814

Basic Statistical Measures			
Location		**Variability**	
Mean	1756.817	**Std Deviation**	3629
Median	491.700	**Variance**	13172060
Mode	299.000	**Range**	23084
		Interquartile Range	565.00000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

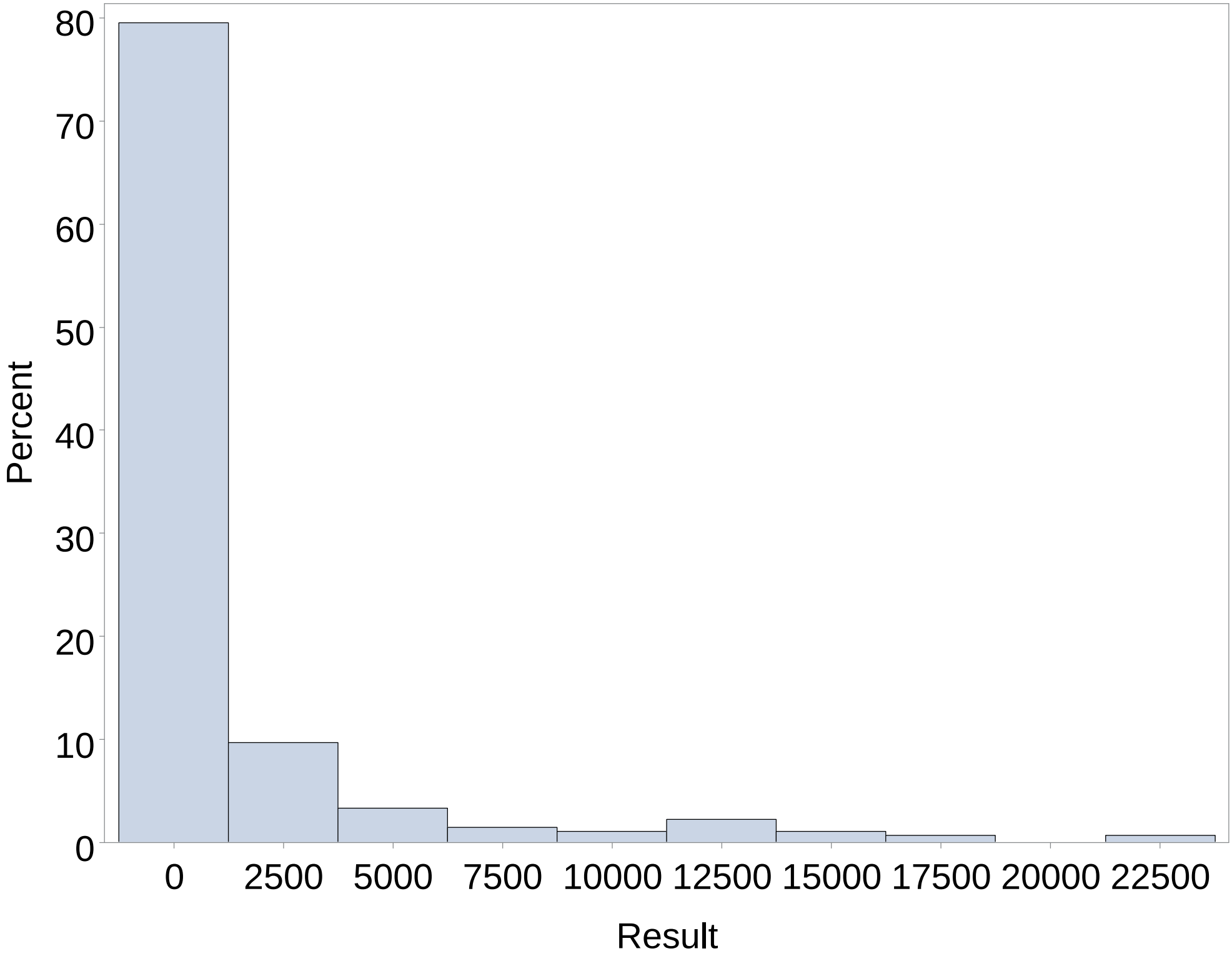
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.924413	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	23122.00
99%	18305.00
95%	10974.00
90%	4530.00
75% Q3	919.60
50% Median	491.70
25% Q1	354.60
10%	265.00
5%	212.70
1%	128.00
0% Min	38.26

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=25.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
38.26	21007	15849	20864
108.00	20823	18264	20948
128.00	20826	18305	20959
136.40	20824	23100	20852
146.10	20917	23122	20996


80
70
60
50
40
30
20
10
0
Percent
0
2500
5000
7500
10000
12500
15000
17500
20000
22500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=29.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	880.650186	**Sum Observations**	236894.9
Std Deviation	1652.05376	**Variance**	2729281.63
Skewness	5.38364277	**Kurtosis**	33.243536
Uncorrected SS	940069015	**Corrected SS**	731447478
Coeff Variation	187.594778	**Std Error Mean**	100.727496

Basic Statistical Measures			
Location		**Variability**	
Mean	880.6502	**Std Deviation**	1652
Median	487.5000	**Variance**	2729282
Mode	279.0000	**Range**	14158
		Interquartile Range	303.50000

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

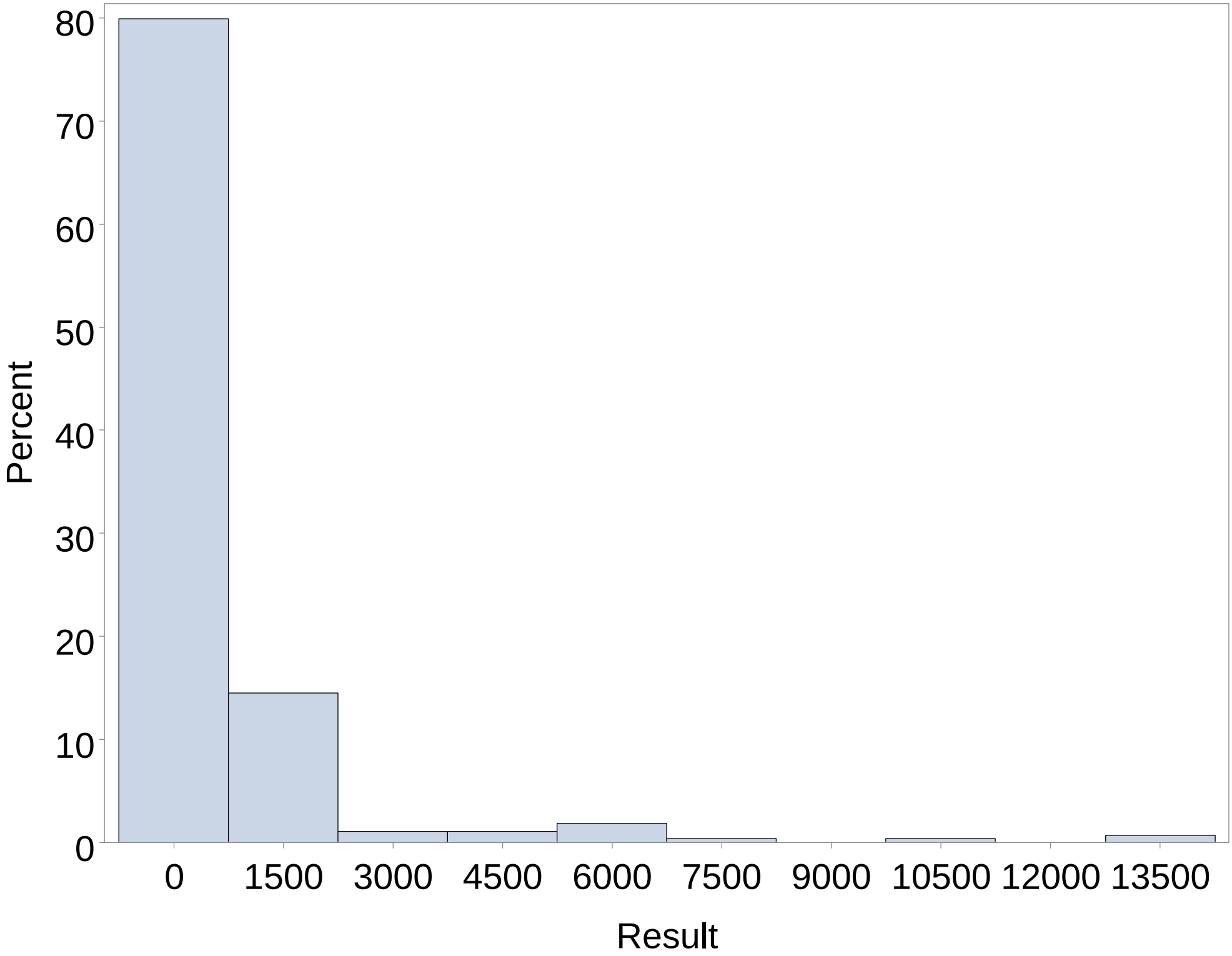
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.742898	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14200.0
99%	10888.0
95%	3150.0
90%	1158.0
75% Q3	660.0
50% Median	487.5
25% Q1	356.5
10%	264.0
5%	211.2
1%	113.0
0% Min	42.1

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=29.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
42.1	21290	6588	21254
88.0	21095	7301	21193
113.0	21091	10888	21217
132.0	21094	13137	21265
141.5	21092	14200	21121


80
70
60
50
40
30
20
10
0
Percent
0
1500
3000
4500
6000
7500
9000
10500
12000
13500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=30.7 Level=Surface

Moments			
N	316	**Sum Weights**	316
Mean	767.585443	**Sum Observations**	242557
Std Deviation	1357.90873	**Variance**	1843916.11
Skewness	6.03439525	**Kurtosis**	42.3772856
Uncorrected SS	767016798	**Corrected SS**	580833576
Coeff Variation	176.906524	**Std Error Mean**	76.388334

Basic Statistical Measures			
Location		**Variability**	
Mean	767.5854	**Std Deviation**	1358
Median	469.2500	**Variance**	1843916
Mode	418.0000	**Range**	12714
		Interquartile Range	281.15000

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

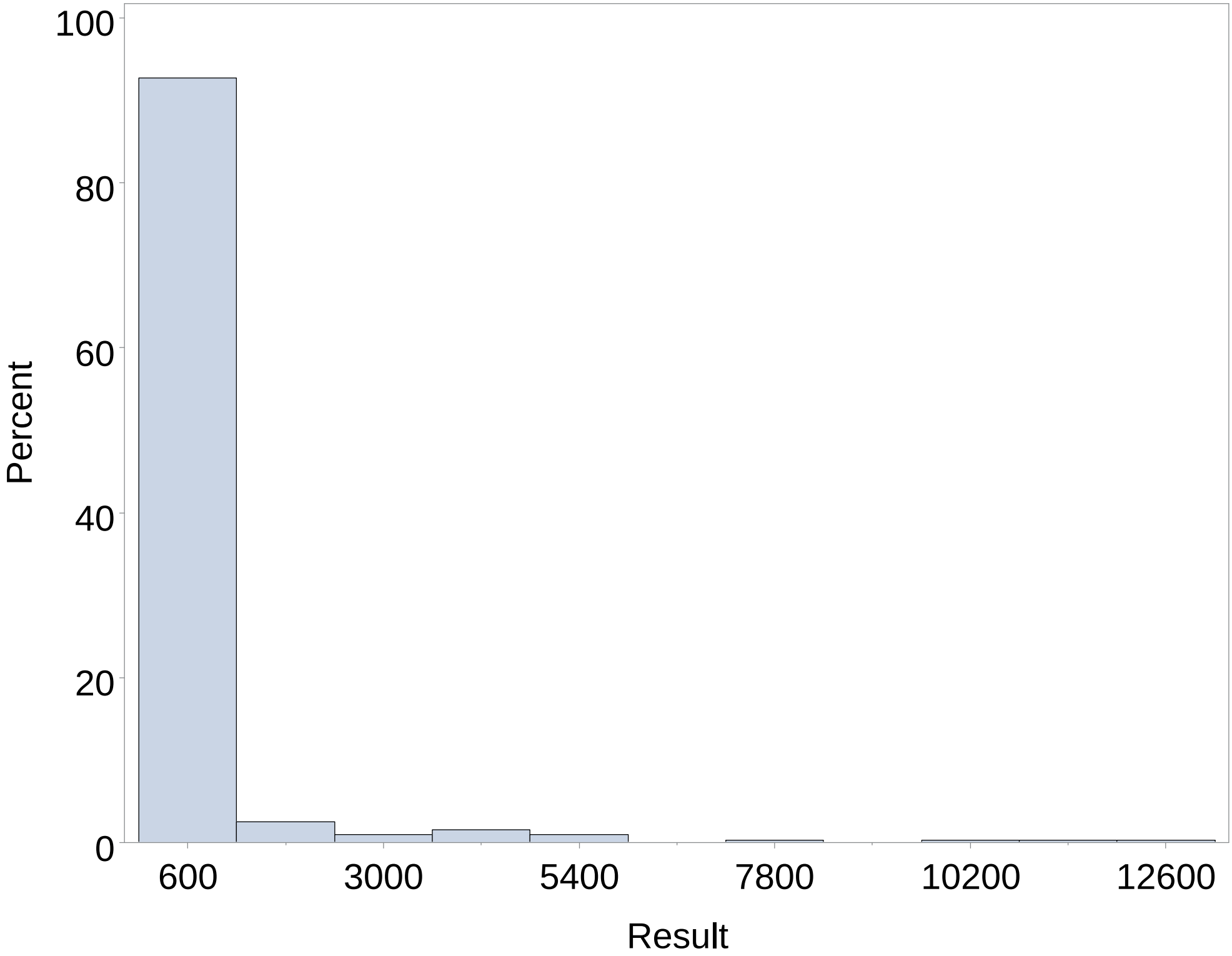
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.04846	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12800.00
99%	7461.00
95%	2269.00
90%	997.40
75% Q3	619.45
50% Median	469.25
25% Q1	338.30
10%	251.00
5%	209.00
1%	118.00
0% Min	86.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
86	21384	5680	21570
91	21383	7461	21533
106	21375	10002	21581
118	21376	11900	21436
136	21381	12800	21435


100
80
60
40
20
0
Percent
600
3000
5400
7800
10200
12600
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=32.3 Level=Surface

Moments			
N	266	**Sum Weights**	266
Mean	629.679173	**Sum Observations**	167494.66
Std Deviation	796.822101	**Variance**	634925.461
Skewness	6.8790311	**Kurtosis**	58.5403391
Uncorrected SS	273723146	**Corrected SS**	168255247
Coeff Variation	126.544141	**Std Error Mean**	48.8562977

Basic Statistical Measures			
Location		**Variability**	
Mean	629.6792	**Std Deviation**	796.82210
Median	481.4000	**Variance**	634925
Mode	559.0000	**Range**	8900
		Interquartile Range	277.30000

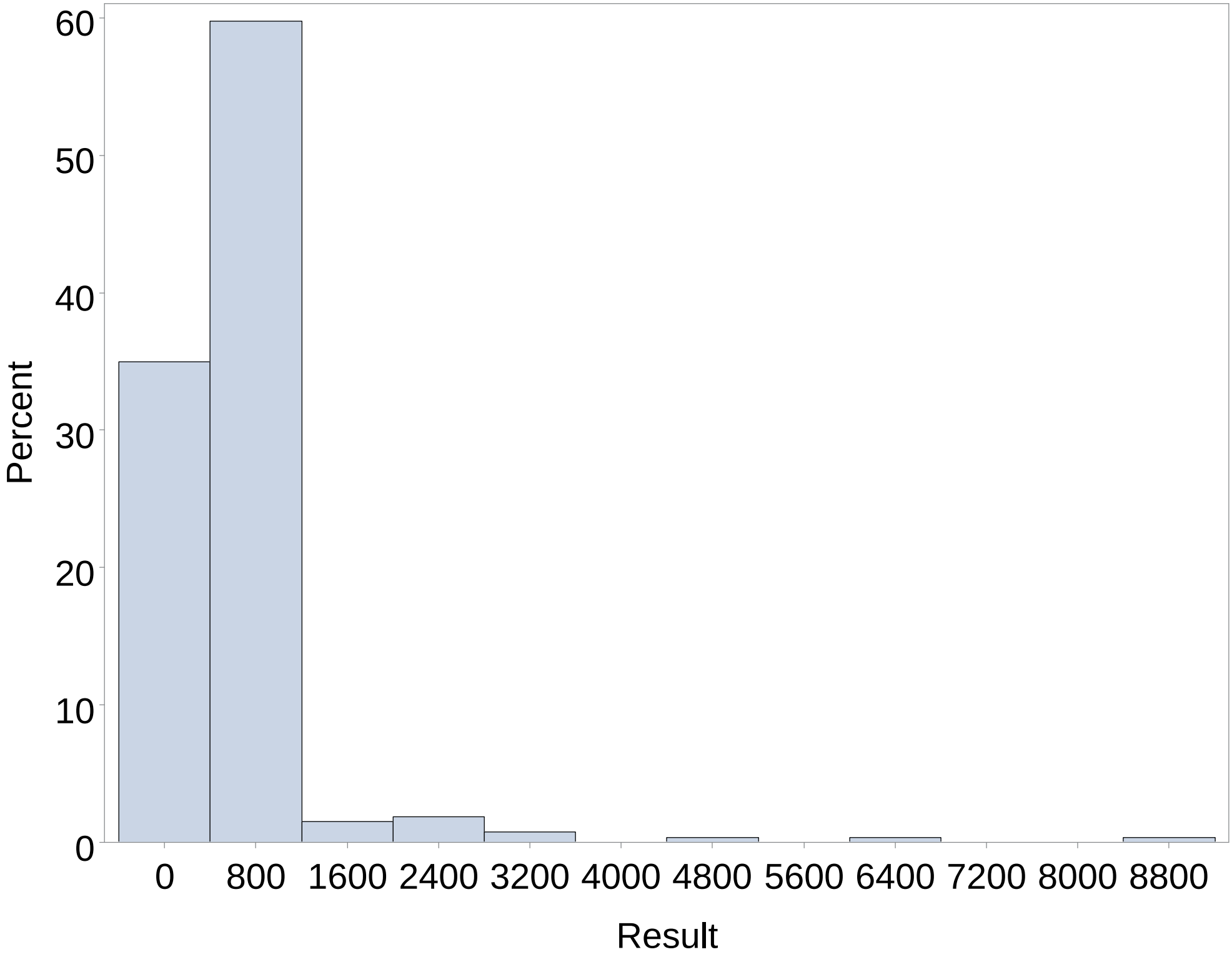
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.88839	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8900.0
99%	4990.0
95%	1200.0
90%	876.1
75% Q3	627.0
50% Median	481.4
25% Q1	349.7
10%	265.3
5%	218.4
1%	116.0
0% Min	0.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Conductivity (us/cm) River Kilometer=32.3 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	21800	2840	21810
4.26	21813	2928	21775
116.00	21676	4990	21799
139.00	21678	6604	21847
147.90	21768	8900	21704


60
50
40
30
20
10
0
Percent
0
800
1600
2400
3200
4000
4800
5600
6400
7200
8000
8800
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=-2.4 Level=Bottom

Moments			
N	78	**Sum Weights**	78
Mean	8.04576923	**Sum Observations**	627.57
Std Deviation	6.40940715	**Variance**	41.0805
Skewness	2.71891731	**Kurtosis**	8.17746902
Uncorrected SS	8212.4819	**Corrected SS**	3163.1985
Coeff Variation	79.6618318	**Std Error Mean**	0.72572245

Basic Statistical Measures			
Location		**Variability**	
Mean	8.045769	**Std Deviation**	6.40941
Median	6.225000	**Variance**	41.08050
Mode	4.000000	**Range**	34.70000
		Interquartile Range	3.89000

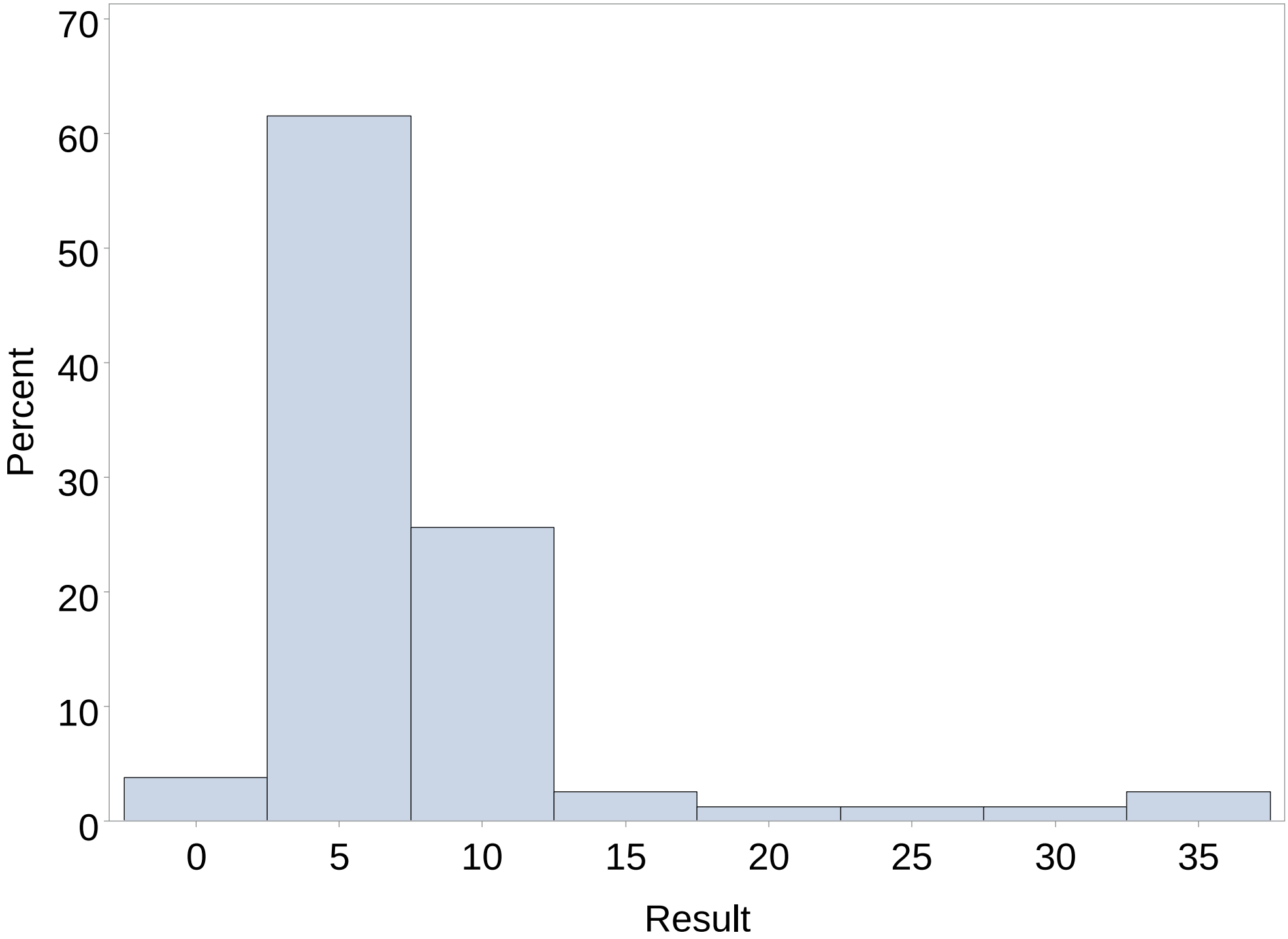
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.08657	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	35.000
99%	35.000
95%	26.000
90%	12.000
75% Q3	8.490
50% Median	6.225
25% Q1	4.600
10%	3.370
5%	3.030
1%	0.300
0% Min	0.300

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	21995	19.1	22004
1.74	21981	26.0	21932
2.00	21974	30.0	21933
3.03	21982	34.0	21927
3.08	21980	35.0	21930


Parameter=DOC River Kilometer=-2.4 Level=Bottom
Percent
70
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=-2.4 Level=Surface

Moments			
N	78	**Sum Weights**	78
Mean	9.55615385	**Sum Observations**	745.38
Std Deviation	7.06520121	**Variance**	49.9170681
Skewness	1.98201966	**Kurtosis**	3.99624686
Uncorrected SS	10966.5802	**Corrected SS**	3843.61425
Coeff Variation	73.9335231	**Std Error Mean**	0.79997651

Basic Statistical Measures			
Location		**Variability**	
Mean	9.55615	**Std Deviation**	7.06520
Median	7.30000	**Variance**	49.91707
Mode	10.00000	**Range**	34.70000
		Interquartile Range	5.83000

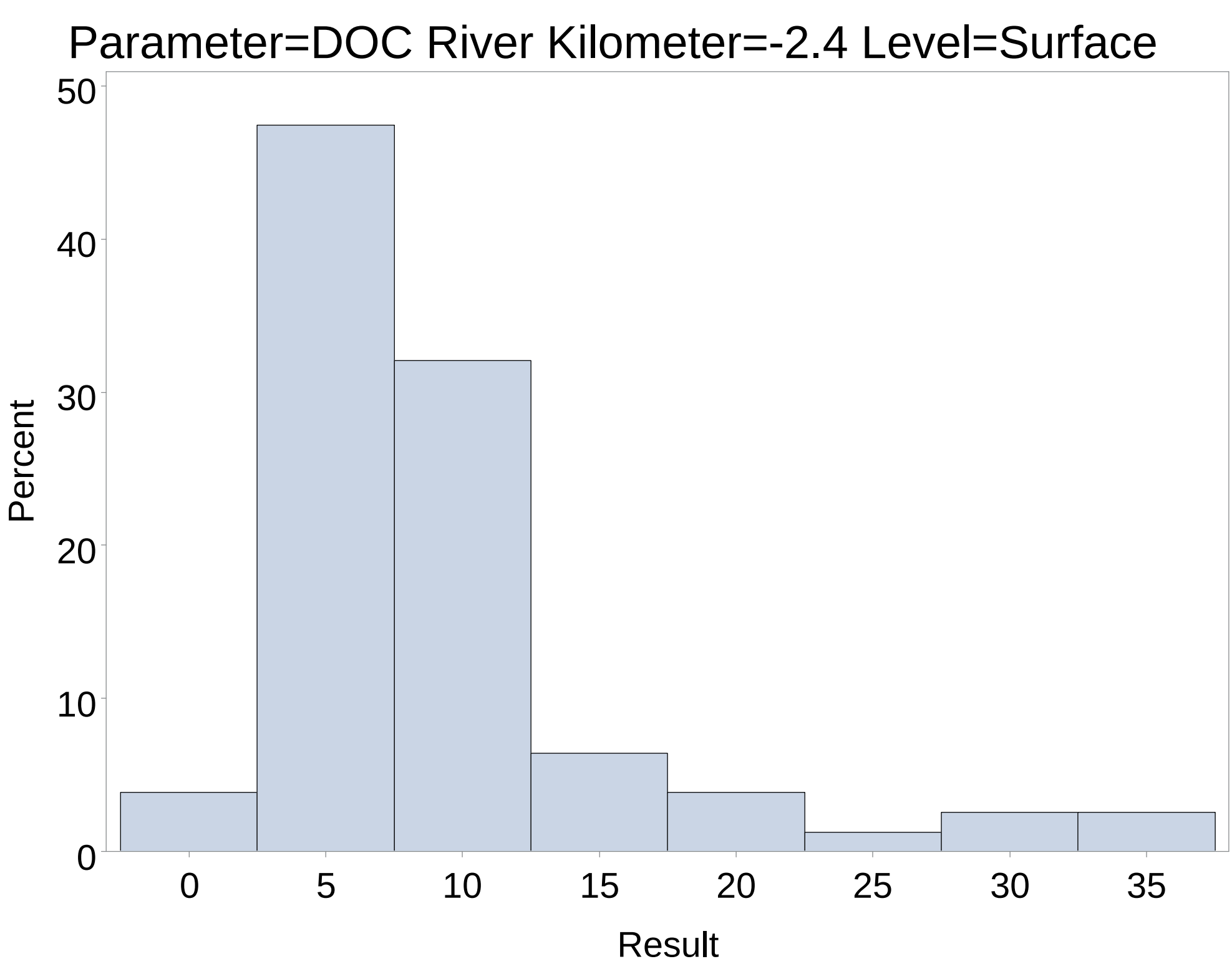
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.94554	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	35.00
99%	35.00
95%	30.00
90%	19.80
75% Q3	11.00
50% Median	7.30
25% Q1	5.17
10%	4.08
5%	2.84
1%	0.30
0% Min	0.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	22073	25	22010
1.74	22059	30	22065
2.00	22052	31	22011
2.84	22061	33	22005
2.91	22058	35	22008


Parameter=DOC River Kilometer=-2.4 Level=Surface
Percent
50
40
30
20
10
0
0
5
10
15
20
25
30
35
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=6.6 Level=Bottom

Moments			
N	79	**Sum Weights**	79
Mean	9.85683544	**Sum Observations**	778.69
Std Deviation	6.5569819	**Variance**	42.9940117
Skewness	2.46177499	**Kurtosis**	5.88482516
Uncorrected SS	11028.9521	**Corrected SS**	3353.53291
Coeff Variation	66.5221809	**Std Error Mean**	0.7377181

Basic Statistical Measures			
Location		**Variability**	
Mean	9.85684	**Std Deviation**	6.55698
Median	8.20000	**Variance**	42.99401
Mode	12.00000	**Range**	33.20000
		Interquartile Range	3.90000

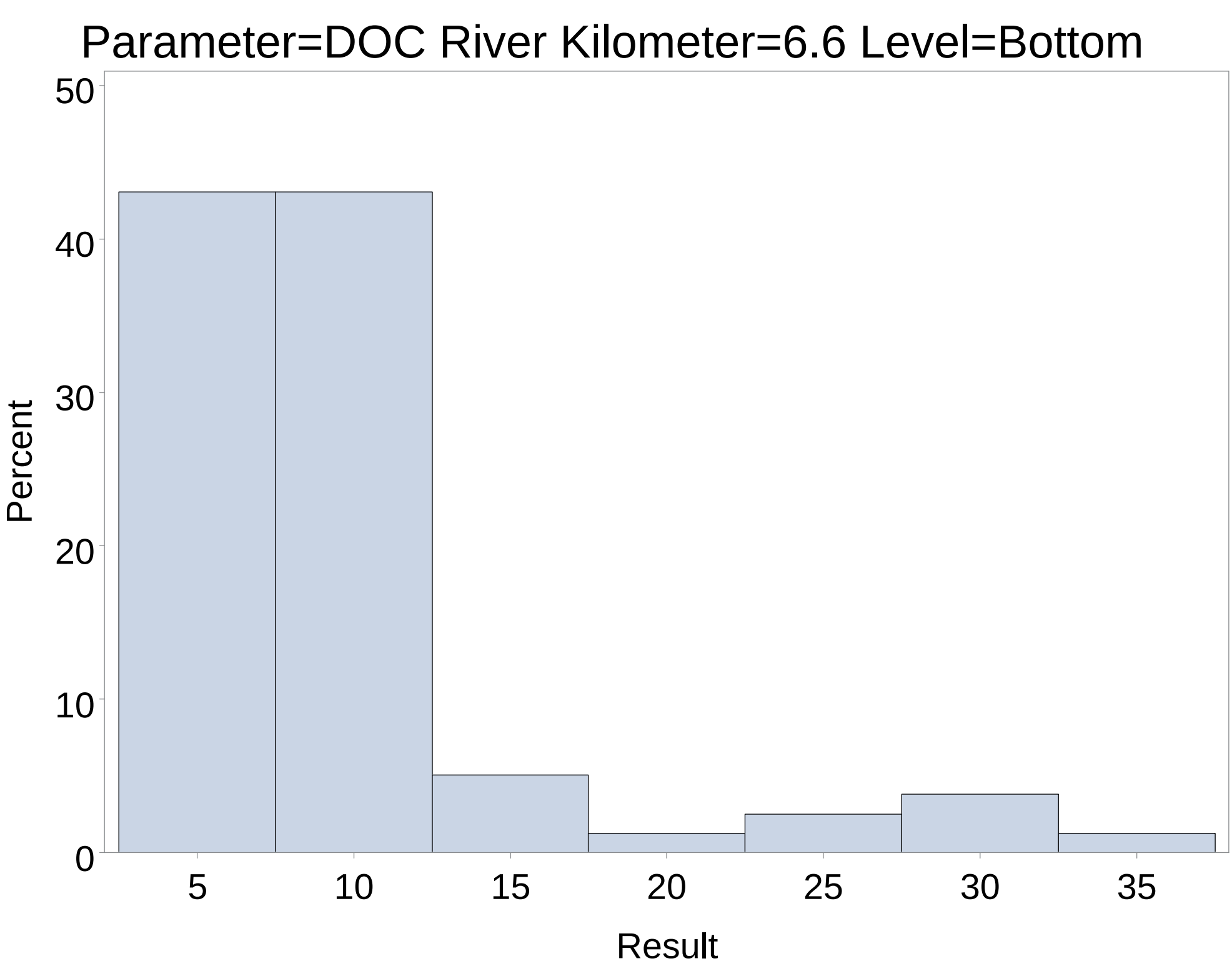
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.36125	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.00
99%	36.00
95%	29.40
90%	17.20
75% Q3	10.00
50% Median	8.20
25% Q1	6.10
10%	5.07
5%	4.70
1%	2.80
0% Min	2.80

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.80	22138	27.0	22088
4.13	22137	29.4	22142
4.53	22140	30.0	22089
4.70	22110	32.0	22083
4.90	22093	36.0	22086


Parameter=DOC River Kilometer=6.6 Level=Bottom
50
40
30
20
10
0
Percent
5
10
15
20
25
30
35
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=6.6 Level=Surface

Moments			
N	79	**Sum Weights**	79
Mean	12.2335443	**Sum Observations**	966.45
Std Deviation	7.60709555	**Variance**	57.8679027
Skewness	1.68389675	**Kurtosis**	2.36111073
Uncorrected SS	16336.8053	**Corrected SS**	4513.69641
Coeff Variation	62.18227	**Std Error Mean**	0.85586512

Basic Statistical Measures			
Location		**Variability**	
Mean	12.23354	**Std Deviation**	7.60710
Median	9.14000	**Variance**	57.86790
Mode	12.00000	**Range**	32.79000
		Interquartile Range	8.40000

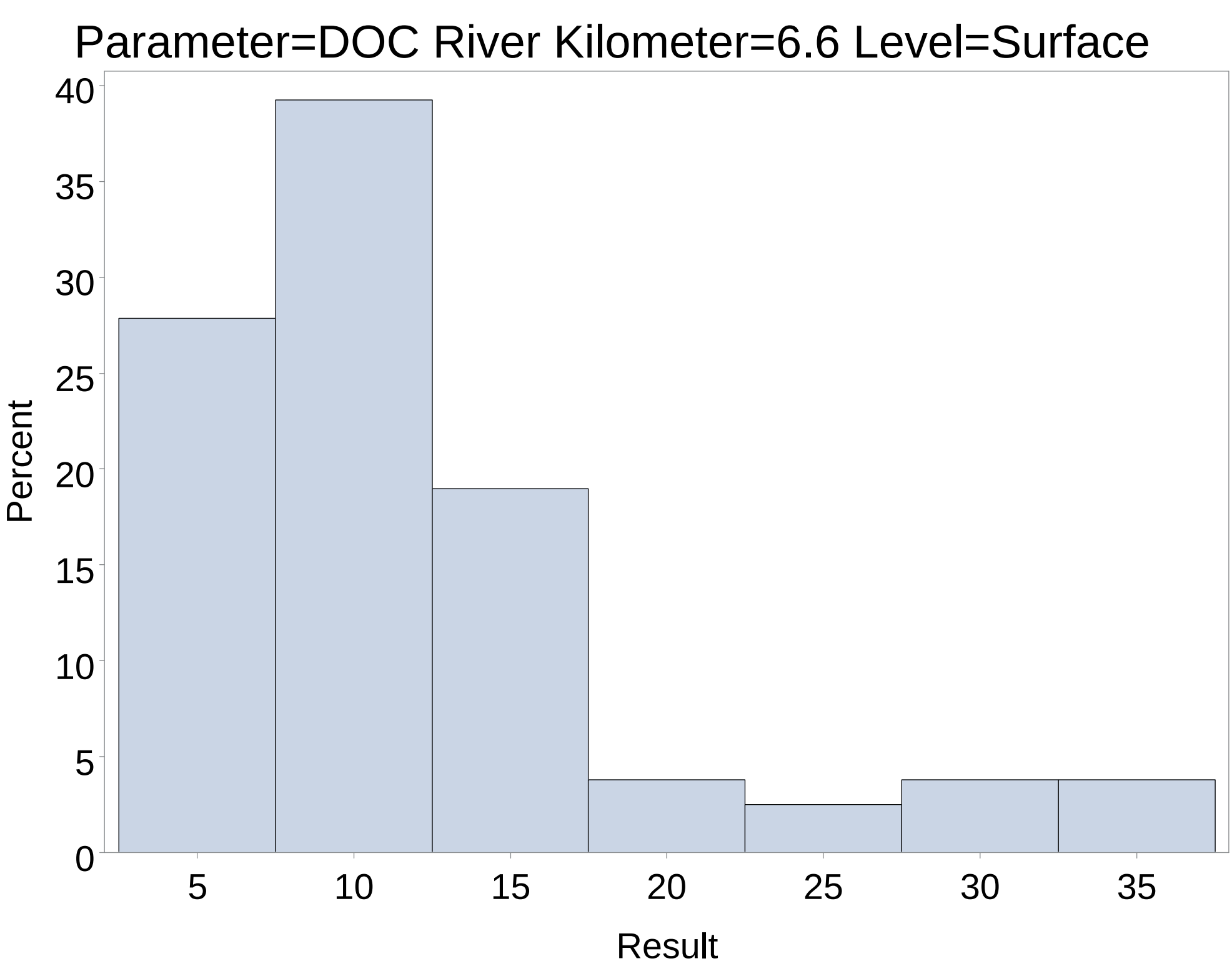
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.29378	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.00
99%	36.00
95%	32.00
90%	23.00
75% Q3	15.60
50% Median	9.14
25% Q1	7.20
10%	5.70
5%	5.00
1%	3.21
0% Min	3.21

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.21	22217	31.0	22221
4.52	22216	32.0	22162
4.70	22219	34.5	22223
5.00	22209	34.5	22240
5.27	22218	36.0	22165


Parameter=DOC River Kilometer=6.6 Level=Surface
Percent
0
5
10
15
20
25
30
35
40
5
10
15
20
25
30
35
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=15.5 Level=Bottom

Moments			
N	78	**Sum Weights**	78
Mean	16.04	**Sum Observations**	1251.12
Std Deviation	7.98050823	**Variance**	63.6885117
Skewness	1.43102801	**Kurtosis**	1.71105015
Uncorrected SS	24971.9802	**Corrected SS**	4904.0154
Coeff Variation	49.753792	**Std Error Mean**	0.90361462

Basic Statistical Measures			
Location		**Variability**	
Mean	16.04000	**Std Deviation**	7.98051
Median	13.20000	**Variance**	63.68851
Mode	13.00000	**Range**	35.84000
		Interquartile Range	8.90000

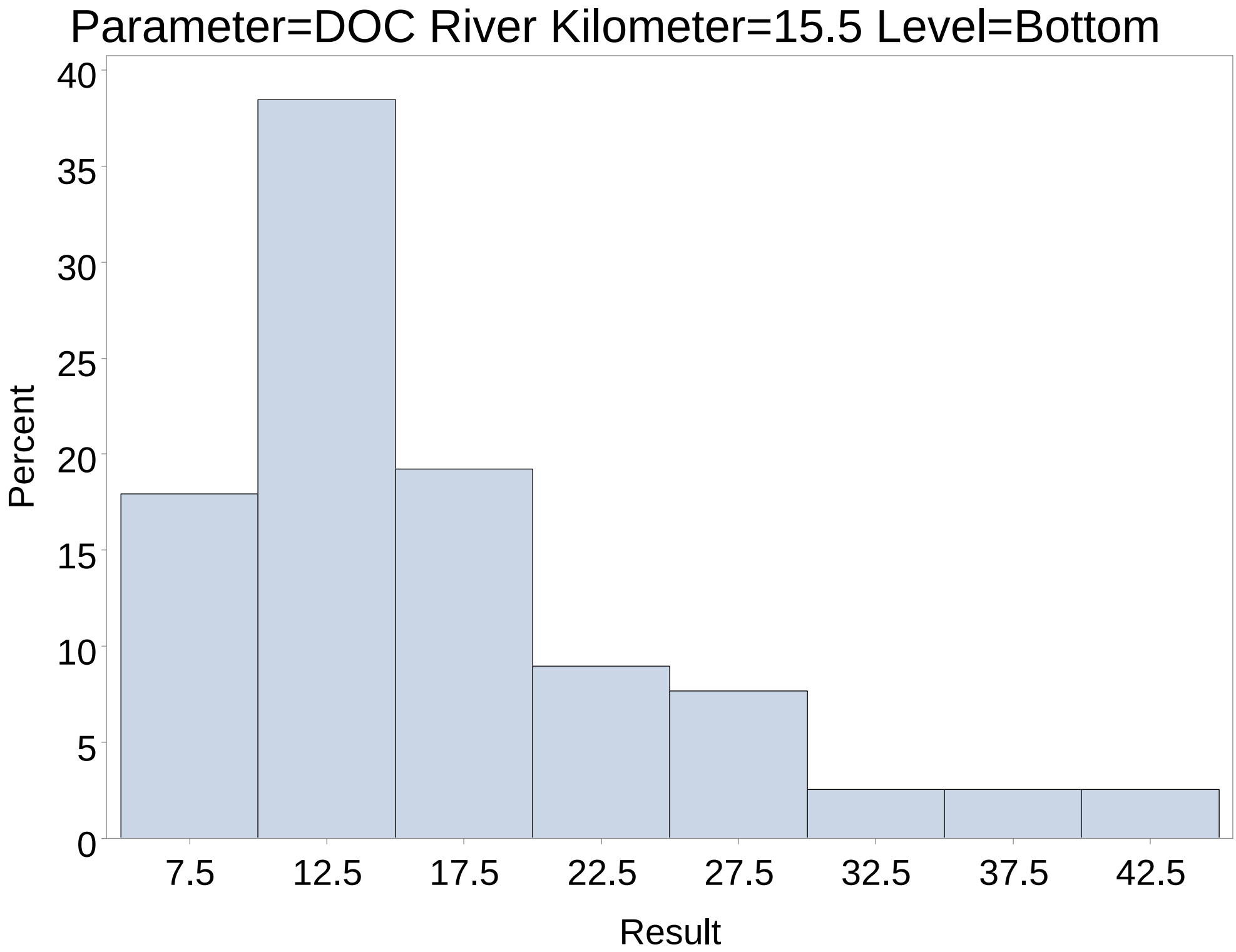
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.75093	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42.20
99%	42.20
95%	35.50
90%	28.00
75% Q3	19.30
50% Median	13.20
25% Q1	10.40
10%	8.80
5%	7.50
1%	6.36
0% Min	6.36

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.36	22295	34.0	22246
7.00	22287	35.5	22301
7.20	22244	35.6	22299
7.50	22284	40.0	22243
7.95	22294	42.2	22318


Parameter=DOC River Kilometer=15.5 Level=Bottom
Percent
0
5
10
15
20
25
30
35
40
7.5
12.5
17.5
22.5
27.5
32.5
37.5
42.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=15.5 Level=Surface

Moments			
N	78	**Sum Weights**	78
Mean	16.6464103	**Sum Observations**	1298.42
Std Deviation	7.87217671	**Variance**	61.9711662
Skewness	1.28561895	**Kurtosis**	1.12141901
Uncorrected SS	26385.8118	**Corrected SS**	4771.77979
Coeff Variation	47.2905365	**Std Error Mean**	0.89134849

Basic Statistical Measures			
Location		**Variability**	
Mean	16.64641	**Std Deviation**	7.87218
Median	14.00000	**Variance**	61.97117
Mode	13.00000	**Range**	33.22000
		Interquartile Range	8.40000

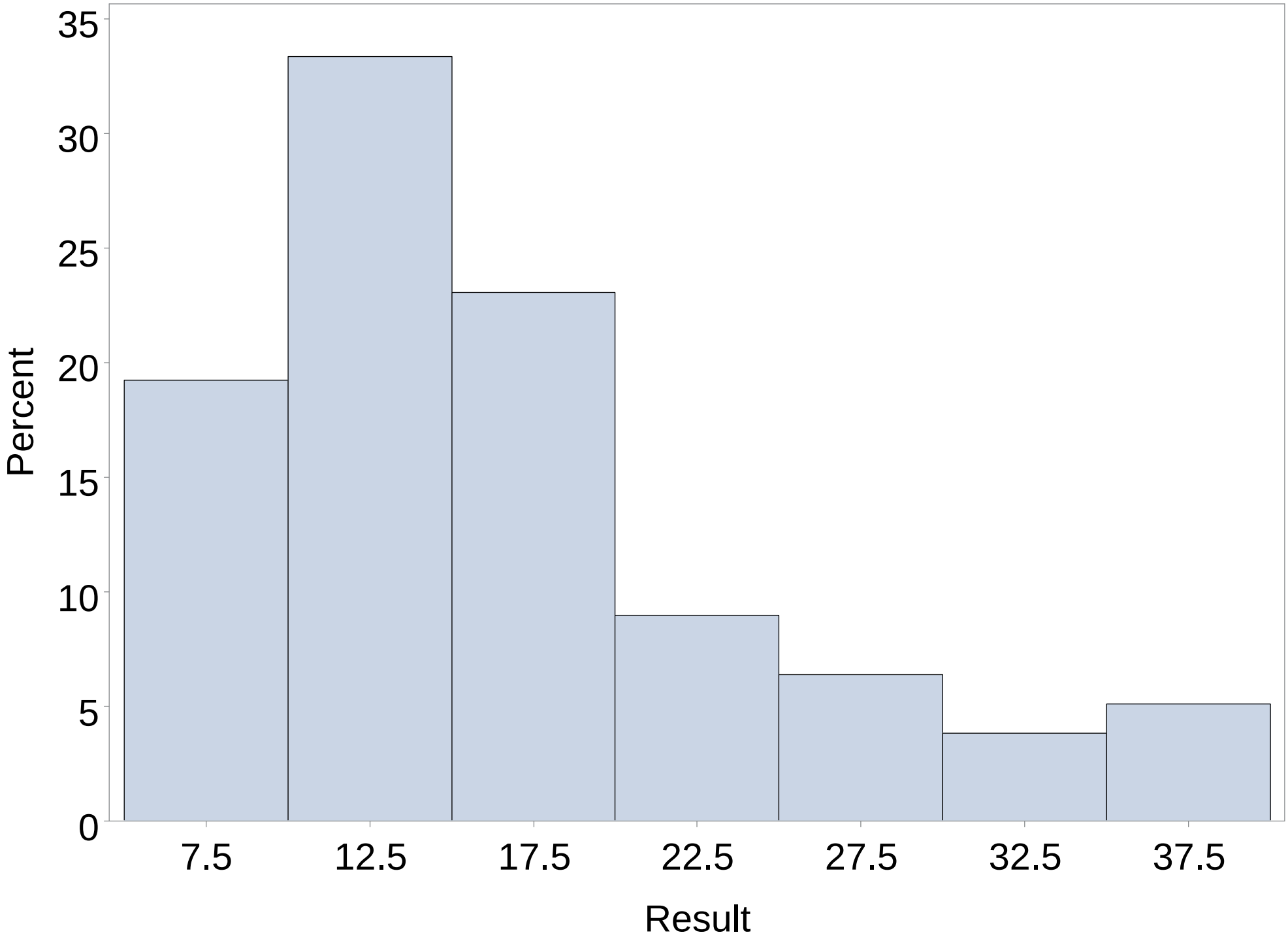
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.67554	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	39.80
99%	39.80
95%	36.00
90%	28.00
75% Q3	19.40
50% Median	14.00
25% Q1	11.00
10%	9.00
5%	8.30
1%	6.58
0% Min	6.58

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.58	22373	34.0	22319
7.30	22322	36.0	22377
8.05	22372	36.2	22379
8.30	22361	39.0	22321
8.40	22362	39.8	22396


Parameter=DOC River Kilometer=15.5 Level=Surface
Percent
35
30
25
20
15
10
5
0
7.5
12.5
17.5
22.5
27.5
32.5
37.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=23.6 Level=Bottom

Moments			
N	78	**Sum Weights**	78
Mean	18.2423077	**Sum Observations**	1422.9
Std Deviation	7.73678193	**Variance**	59.8577946
Skewness	1.21986235	**Kurtosis**	1.23469129
Uncorrected SS	30566.0298	**Corrected SS**	4609.05018
Coeff Variation	42.4112018	**Std Error Mean**	0.87601805

Basic Statistical Measures			
Location		**Variability**	
Mean	18.24231	**Std Deviation**	7.73678
Median	16.00000	**Variance**	59.85779
Mode	15.00000	**Range**	34.22000
		Interquartile Range	9.00000

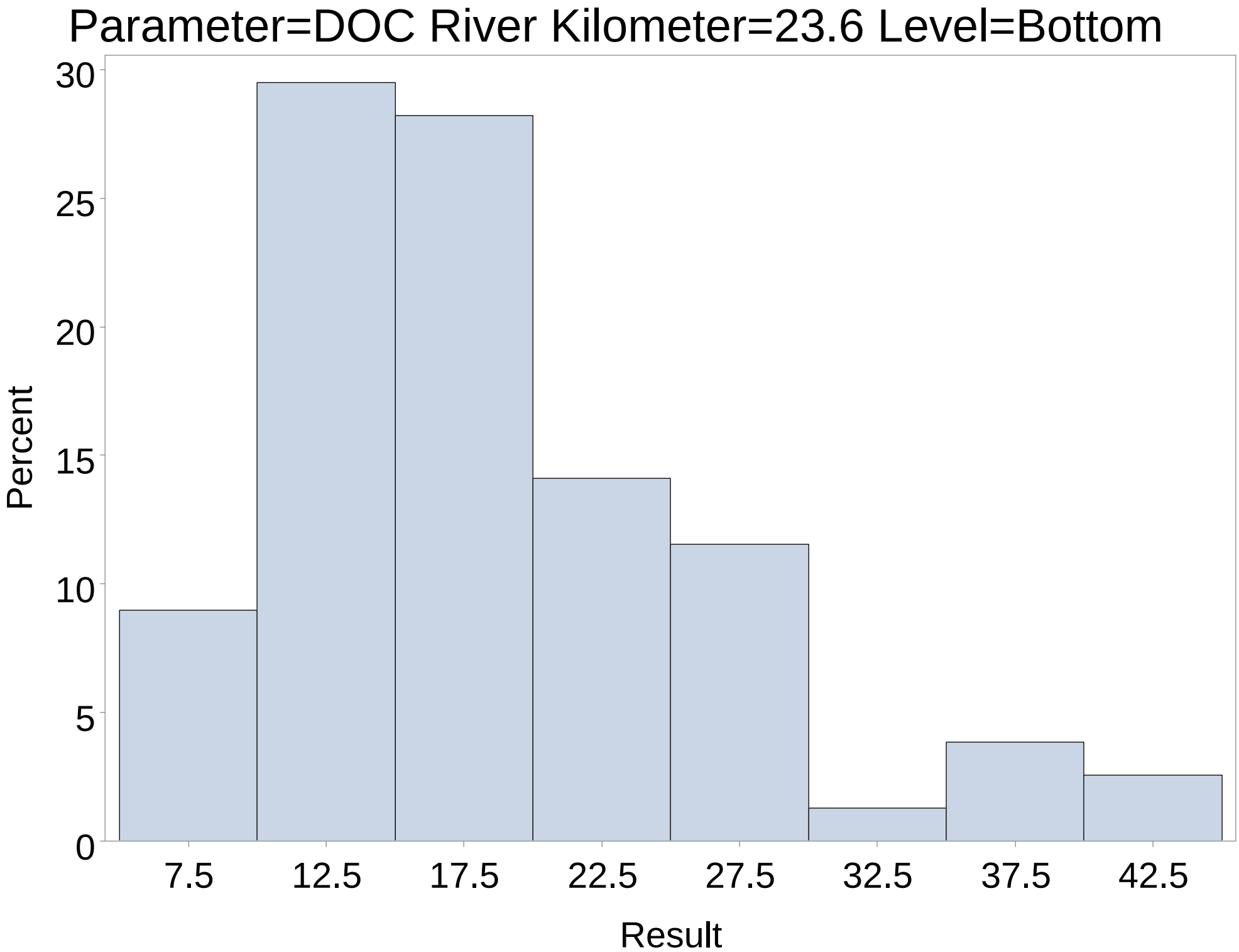
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.82412	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42.80
99%	42.80
95%	36.70
90%	28.70
75% Q3	22.00
50% Median	16.00
25% Q1	13.00
10%	10.00
5%	9.30
1%	8.58
0% Min	8.58

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.58	22451	35.4	22455
8.97	22450	36.7	22457
9.10	22401	38.0	22397
9.30	22439	40.0	22400
9.85	22449	42.8	22474


Parameter=DOC River Kilometer=23.6 Level=Bottom
Percent
30
25
20
15
10
5
0
7.5
12.5
17.5
22.5
27.5
32.5
37.5
42.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=23.6 Level=Surface

Moments			
N	79	**Sum Weights**	79
Mean	18.2072152	**Sum Observations**	1438.37
Std Deviation	7.82003966	**Variance**	61.1530204
Skewness	1.19547927	**Kurtosis**	1.04752162
Uncorrected SS	30958.6477	**Corrected SS**	4769.93559
Coeff Variation	42.9502238	**Std Error Mean**	0.8798232

Basic Statistical Measures			
Location		**Variability**	
Mean	18.20722	**Std Deviation**	7.82004
Median	16.00000	**Variance**	61.15302
Mode	12.00000	**Range**	33.39000
		Interquartile Range	11.00000

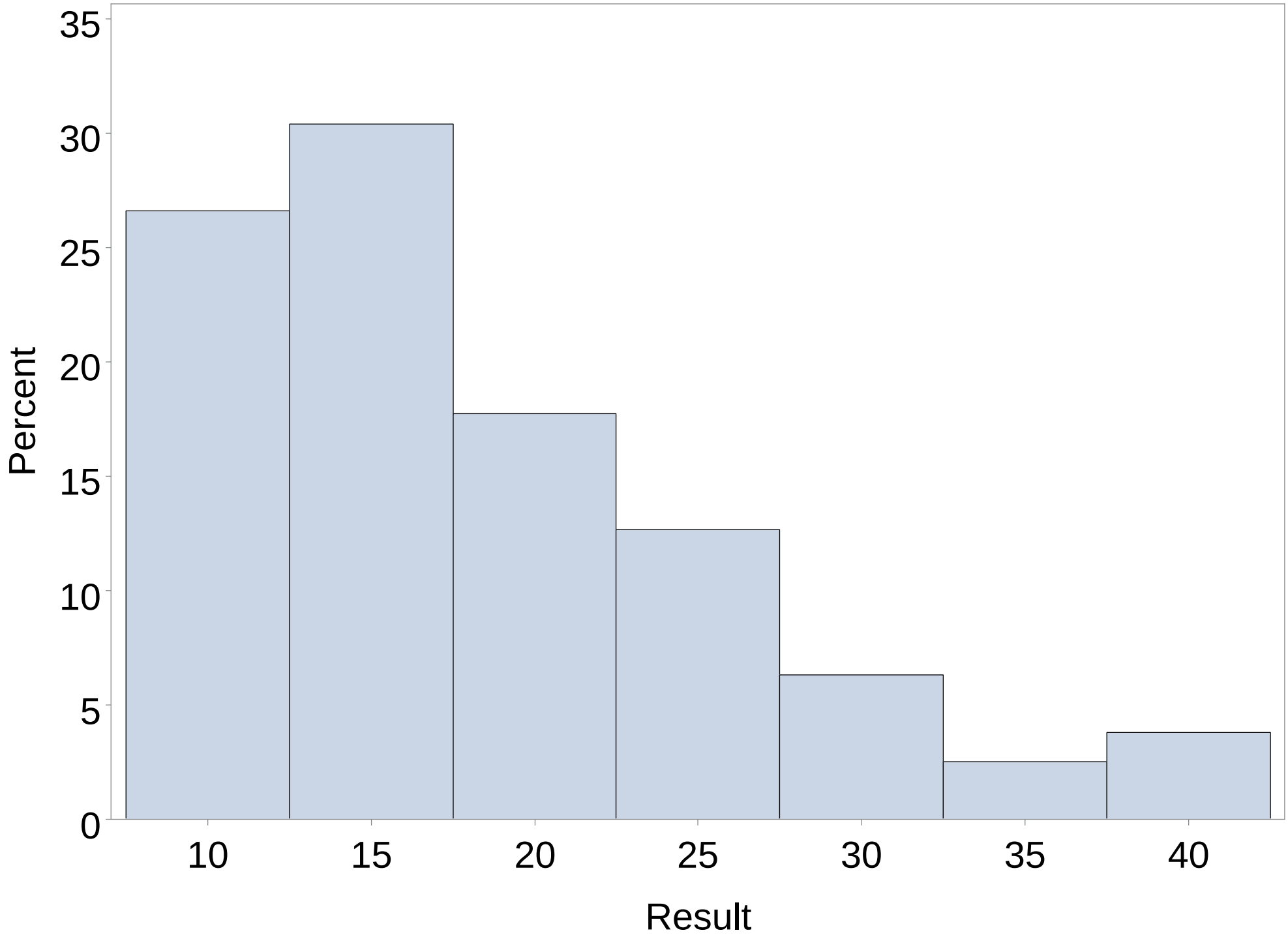
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.69417	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41.90
99%	41.90
95%	36.30
90%	29.00
75% Q3	23.00
50% Median	16.00
25% Q1	12.00
10%	9.90
5%	9.26
1%	8.51
0% Min	8.51

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.51	22530	35.3	22536
8.60	22479	36.3	22534
8.80	22518	39.0	22475
9.26	22529	40.0	22478
9.80	22528	41.9	22553


Parameter=DOC River Kilometer=23.6 Level=Surface
Percent
0
5
10
15
20
25
30
35
10
15
20
25
30
35
40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=30.7 Level=Bottom

Moments			
N	78	**Sum Weights**	78
Mean	18.1552564	**Sum Observations**	1416.11
Std Deviation	8.06807235	**Variance**	65.0937915
Skewness	1.09818939	**Kurtosis**	0.87818467
Uncorrected SS	30722.0621	**Corrected SS**	5012.22194
Coeff Variation	44.4393192	**Std Error Mean**	0.9135293

Basic Statistical Measures			
Location		**Variability**	
Mean	18.15526	**Std Deviation**	8.06807
Median	16.00000	**Variance**	65.09379
Mode	13.00000	**Range**	37.50000
		Interquartile Range	9.00000

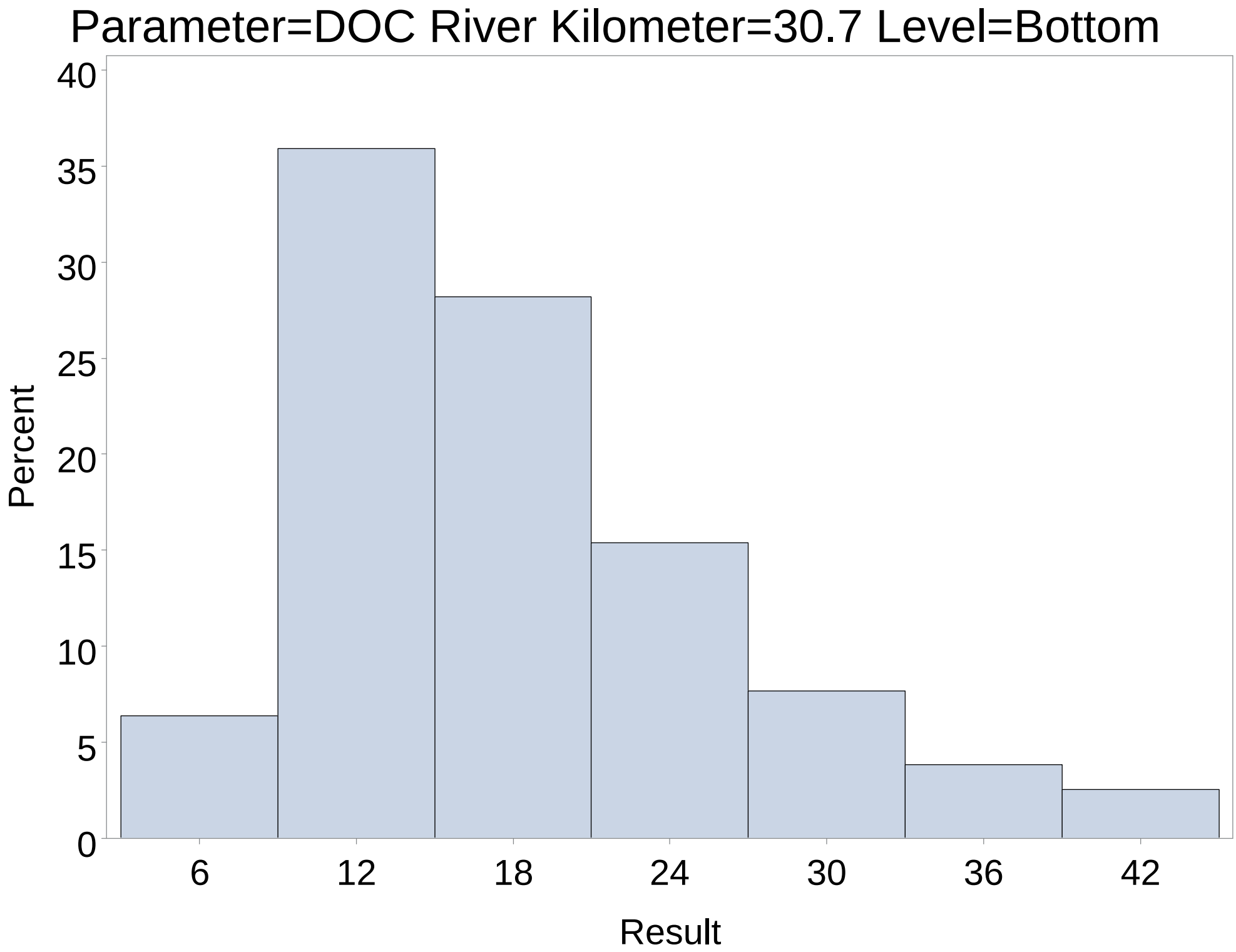
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.87375	**Pr > |t|**	<.0001
Sign	**M**	39	**Pr >= |M|**	<.0001
Signed Rank	**S**	1540.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42.5
99%	42.5
95%	37.0
90%	29.0
75% Q3	22.0
50% Median	16.0
25% Q1	13.0
10%	9.9
5%	8.8
1%	5.0
0% Min	5.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.00	22582	34.6	22614
7.61	22608	37.0	22554
8.80	22607	37.4	22612
8.80	22585	41.0	22557
8.90	22597	42.5	22631


Parameter=DOC River Kilometer=30.7 Level=Bottom
Percent
0
5
10
15
20
25
30
35
40
6
12
18
24
30
36
42
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=30.7 Level=Surface

Moments			
N	79	**Sum Weights**	79
Mean	17.7831646	**Sum Observations**	1404.87
Std Deviation	8.01817607	**Variance**	64.2911475
Skewness	1.16374167	**Kurtosis**	0.87600285
Uncorrected SS	29997.7439	**Corrected SS**	5014.70951
Coeff Variation	45.0885783	**Std Error Mean**	0.90211529

Basic Statistical Measures			
Location		**Variability**	
Mean	17.78316	**Std Deviation**	8.01818
Median	15.70000	**Variance**	64.29115
Mode	11.00000	**Range**	33.69000
		Interquartile Range	10.70000

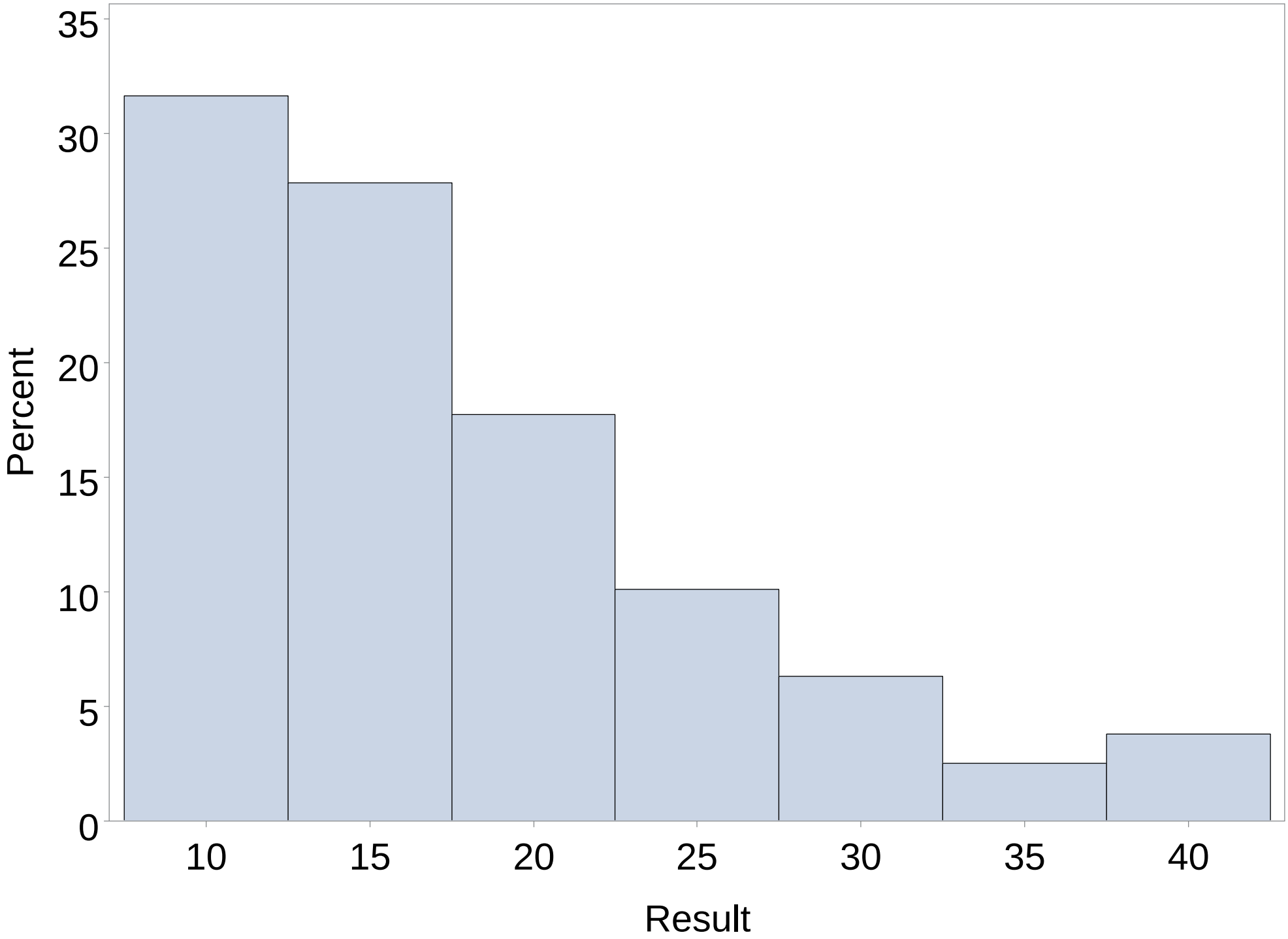
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.71274	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41.50
99%	41.50
95%	37.00
90%	29.00
75% Q3	21.70
50% Median	15.70
25% Q1	11.00
10%	9.50
5%	8.98
1%	7.81
0% Min	7.81

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=DOC River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.81	22687	35.1	22693
8.80	22675	37.0	22632
8.90	22663	37.6	22691
8.98	22686	41.0	22635
9.05	22685	41.5	22710


Parameter=DOC River Kilometer=30.7 Level=Surface
Percent
0
5
10
15
20
25
30
35
10
15
20
25
30
35
40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	307	**Sum Weights**	307
Mean	4.80228013	**Sum Observations**	1474.3
Std Deviation	2.36837359	**Variance**	5.60919348
Skewness	-0.5266611	**Kurtosis**	-0.6085548
Uncorrected SS	8796.4148	**Corrected SS**	1716.4132
Coeff Variation	49.3176893	**Std Error Mean**	0.13517022

Basic Statistical Measures			
Location		**Variability**	
Mean	4.802280	**Std Deviation**	2.36837
Median	5.440000	**Variance**	5.60919
Mode	0.200000	**Range**	10.41000
		Interquartile Range	3.50000

Note: The mode displayed is the smallest of 9 modes with a count of 3.

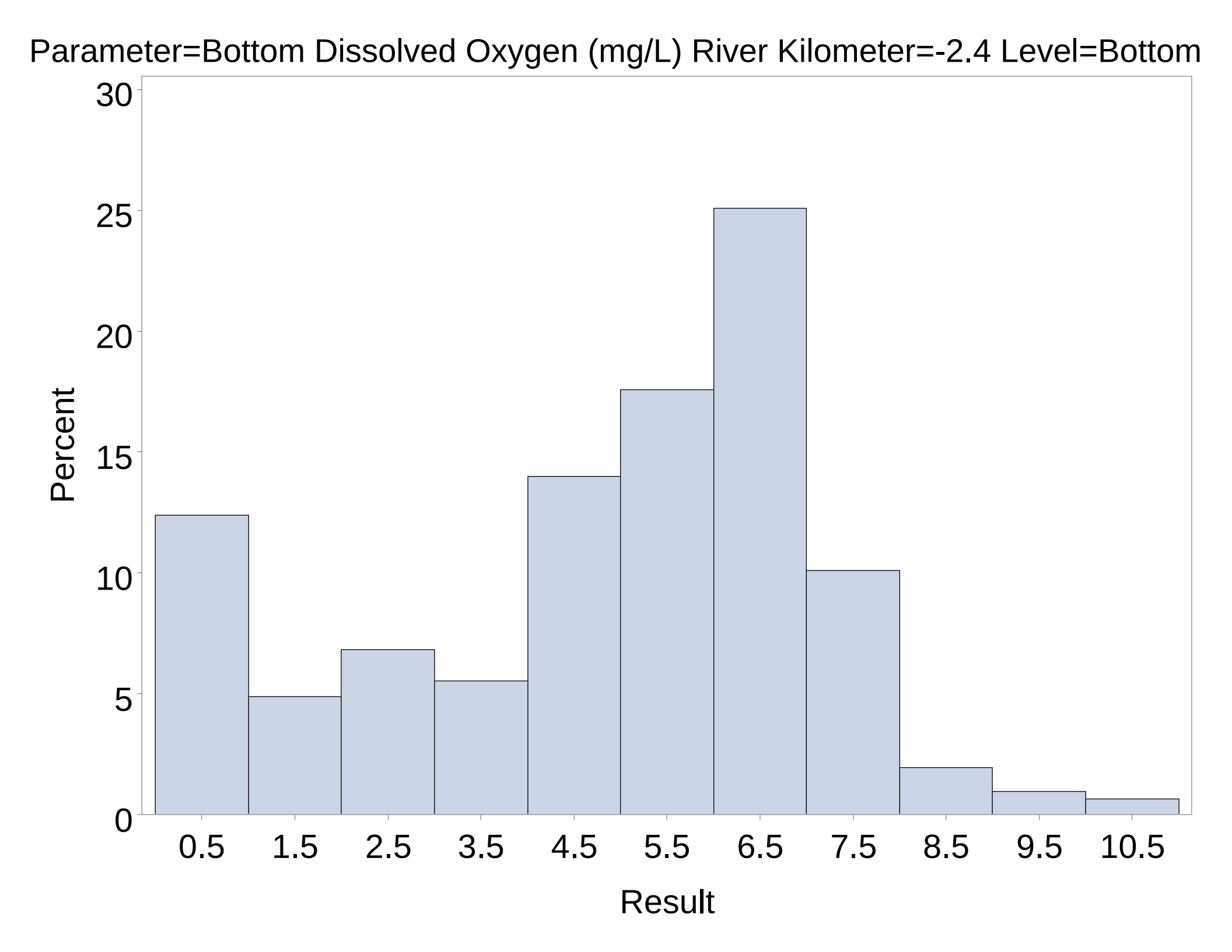
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.52765	**Pr > |t|**	<.0001
Sign	**M**	153.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.47
99%	9.38
95%	7.82
90%	7.20
75% Q3	6.60
50% Median	5.44
25% Q1	3.10
10%	0.71
5%	0.31
1%	0.13
0% Min	0.06

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.06	23000	9.17	22861
0.06	22733	9.38	22850
0.11	22907	9.41	22864
0.13	23013	10.22	22875
0.17	22846	10.47	22851


Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
30
25
20
15
10
5
0
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	312	**Sum Weights**	312
Mean	4.72201923	**Sum Observations**	1473.27
Std Deviation	2.22360692	**Variance**	4.94442774
Skewness	-0.3495761	**Kurtosis**	-0.3602044
Uncorrected SS	8494.5263	**Corrected SS**	1537.71703
Coeff Variation	47.0901708	**Std Error Mean**	0.12588695

Basic Statistical Measures			
Location		**Variability**	
Mean	4.722019	**Std Deviation**	2.22361
Median	5.170000	**Variance**	4.94443
Mode	4.900000	**Range**	11.04000
		Interquartile Range	3.05500

Note: The mode displayed is the smallest of 3 modes with a count of 4.

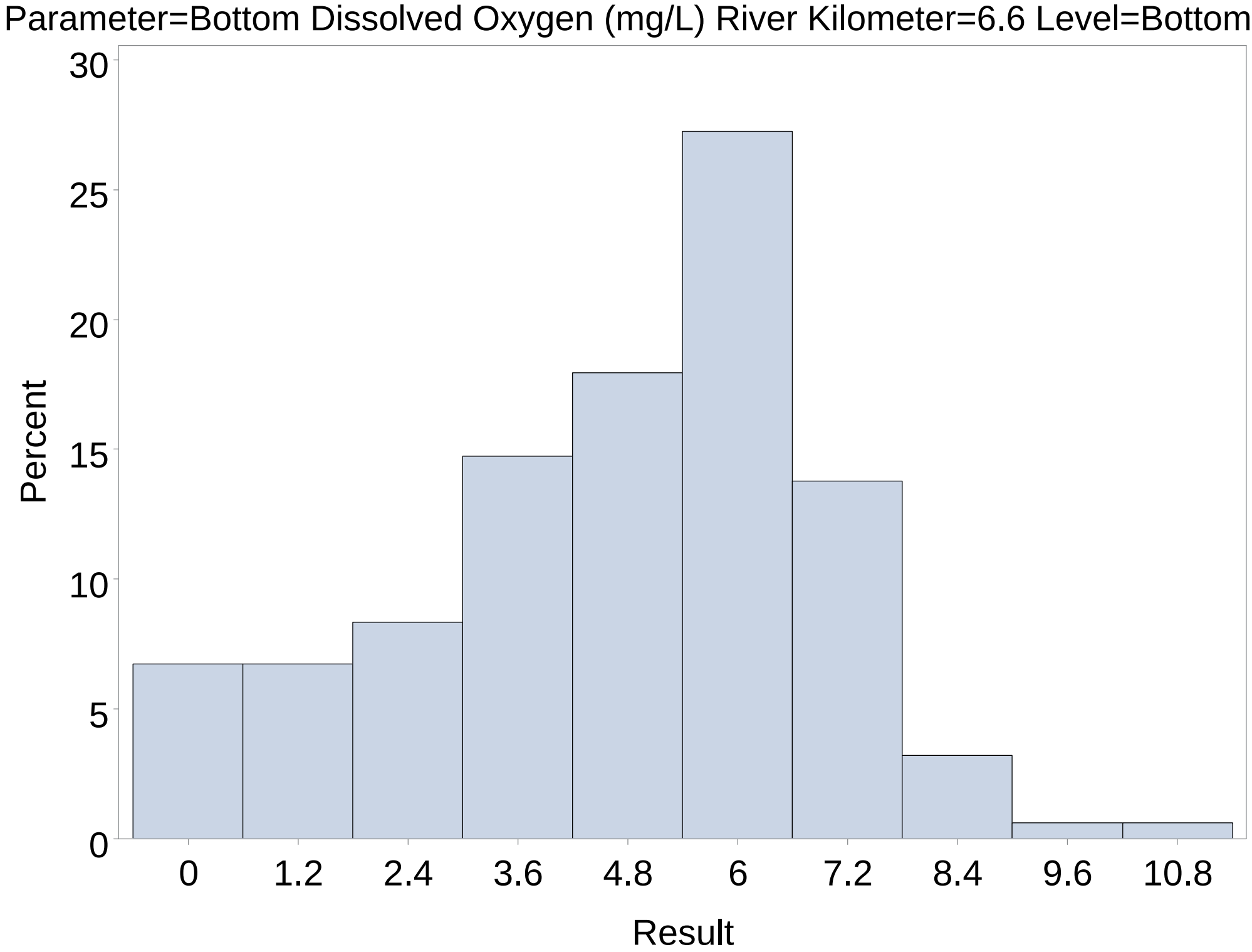
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.51	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.090
99%	9.550
95%	7.740
90%	7.250
75% Q3	6.290
50% Median	5.170
25% Q1	3.235
10%	1.440
5%	0.480
1%	0.080
0% Min	0.050

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.05	23041	8.80	23096
0.06	23314	9.55	23175
0.06	23042	9.70	23162
0.08	23218	10.44	23186
0.09	23325	11.09	23161


Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=6.6 Level=Bottom
Percent
30
25
20
15
10
5
0
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=8.4 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.0530597	**Sum Observations**	1354.22
Std Deviation	1.99487029	**Variance**	3.97950746
Skewness	-0.2345627	**Kurtosis**	0.04866417
Uncorrected SS	7905.483	**Corrected SS**	1062.52849
Coeff Variation	39.4784626	**Std Error Mean**	0.1218561

Basic Statistical Measures			
Location		**Variability**	
Mean	5.053060	**Std Deviation**	1.99487
Median	5.285000	**Variance**	3.97951
Mode	5.800000	**Range**	10.37000
		Interquartile Range	2.67000

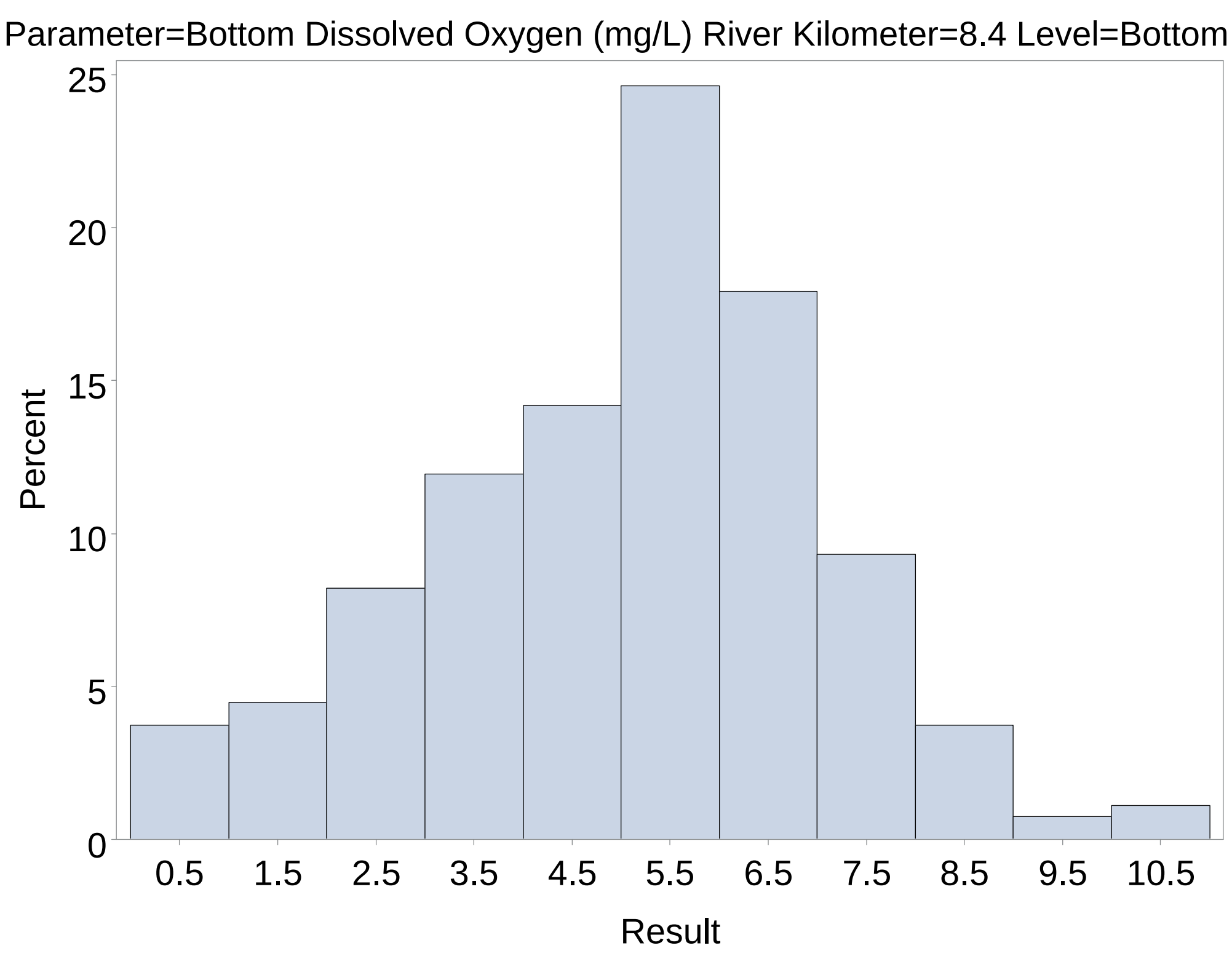
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.46743	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.450
99%	10.130
95%	8.050
90%	7.380
75% Q3	6.350
50% Median	5.285
25% Q1	3.680
10%	2.320
5%	1.300
1%	0.310
0% Min	0.080

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=8.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.08	23582	9.14	23405
0.27	23425	9.87	23443
0.31	23389	10.13	23454
0.33	23509	10.40	23420
0.43	23593	10.45	23440


Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=8.4 Level=Bottom
Percent
25
20
15
10
5
0
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=10.5 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.23563433	**Sum Observations**	1403.15
Std Deviation	2.03061991	**Variance**	4.1234172
Skewness	-0.1779276	**Kurtosis**	0.05406774
Uncorrected SS	8447.3327	**Corrected SS**	1100.95239
Coeff Variation	38.7846014	**Std Error Mean**	0.12403985

Basic Statistical Measures			
Location		**Variability**	
Mean	5.235634	**Std Deviation**	2.03062
Median	5.265000	**Variance**	4.12342
Mode	3.750000	**Range**	10.97000
		Interquartile Range	2.64000

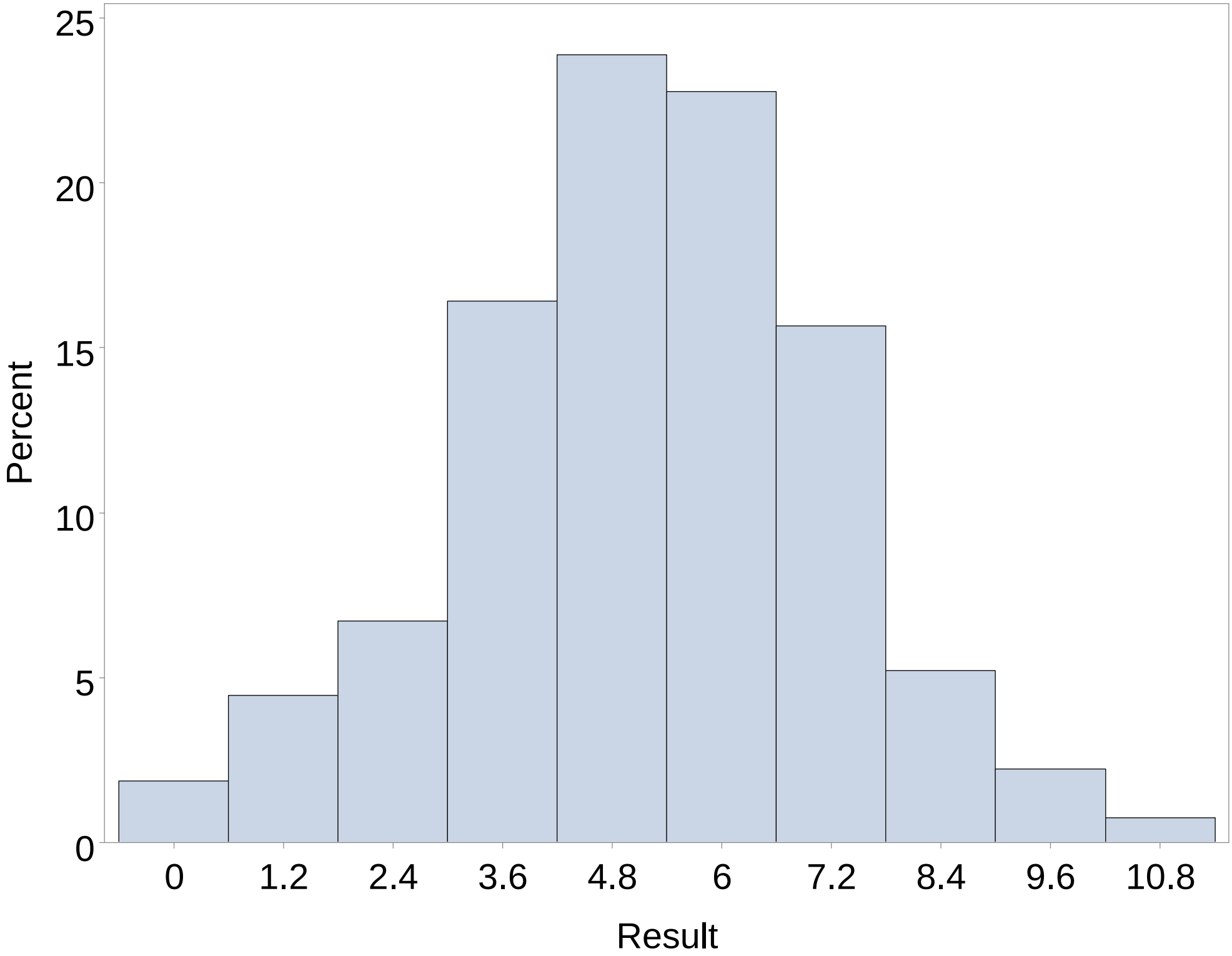
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.20929	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.010
99%	9.560
95%	8.450
90%	7.690
75% Q3	6.535
50% Median	5.265
25% Q1	3.895
10%	2.410
5%	1.320
1%	0.210
0% Min	0.040

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=10.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.04	23610	9.50	23638
0.05	23850	9.54	23701
0.21	23693	9.56	23711
0.33	23657	10.38	23722
0.55	23777	11.01	23697


25
20
15
10
5
0
Percent
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=12.7 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.56272388	**Sum Observations**	1490.81
Std Deviation	1.81059585	**Variance**	3.27825735
Skewness	-0.0236252	**Kurtosis**	0.20966157
Uncorrected SS	9168.2591	**Corrected SS**	875.294712
Coeff Variation	32.5487278	**Std Error Mean**	0.11059974

Basic Statistical Measures			
Location		**Variability**	
Mean	5.562724	**Std Deviation**	1.81060
Median	5.465000	**Variance**	3.27826
Mode	4.500000	**Range**	10.53000
		Interquartile Range	2.44000

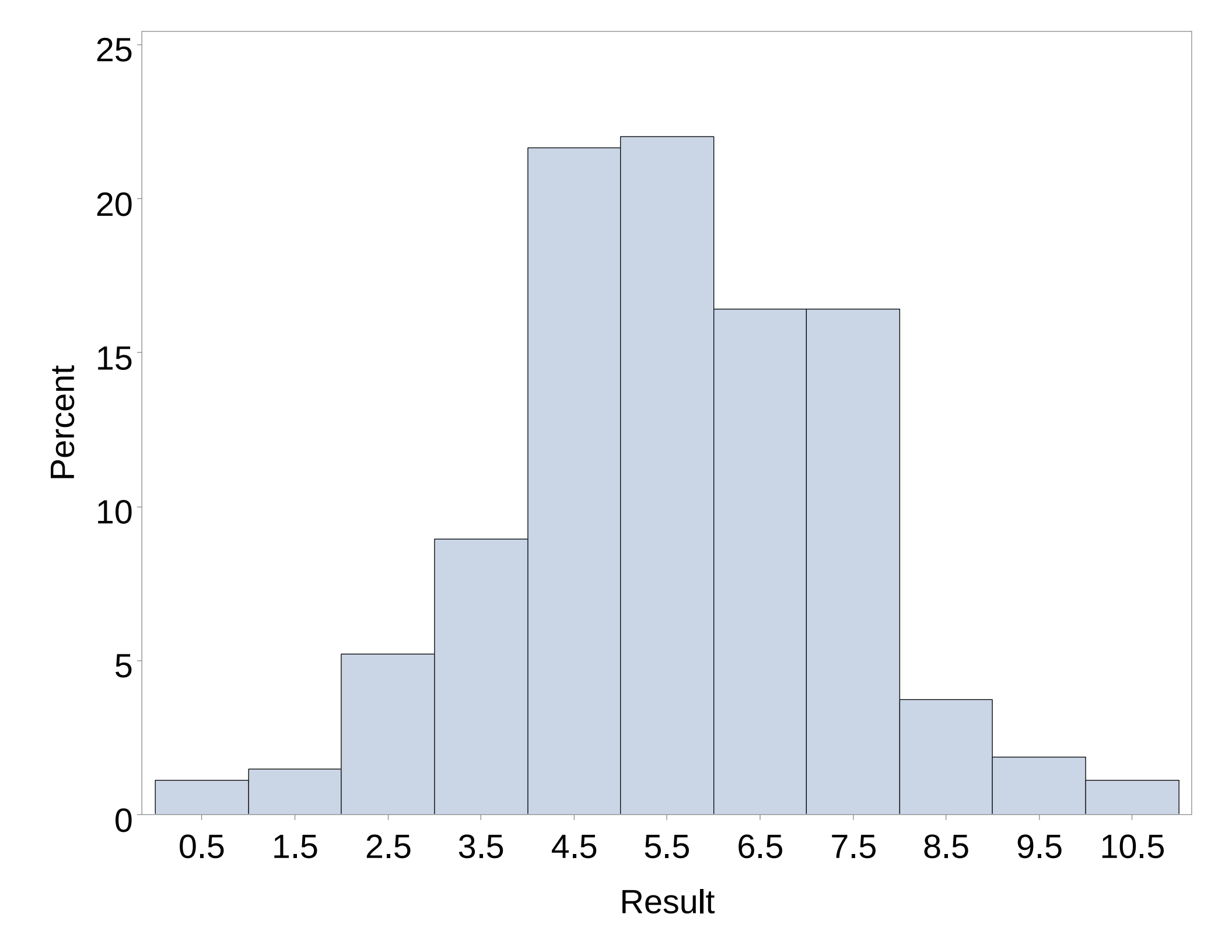
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.29599	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.700
99%	10.050
95%	8.410
90%	7.780
75% Q3	6.820
50% Median	5.465
25% Q1	4.380
10%	3.390
5%	2.560
1%	0.930
0% Min	0.170

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=12.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.17	23961	9.85	23990
0.89	24094	9.99	23871
0.93	23913	10.05	24121
1.12	24008	10.30	24037
1.28	24045	10.70	23969


25
20
15
10
5
0
Percent
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=12.8 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.53421642	**Sum Observations**	1483.17
Std Deviation	1.76666483	**Variance**	3.12110463
Skewness	0.00150407	**Kurtosis**	0.56449262
Uncorrected SS	9041.5187	**Corrected SS**	833.334935
Coeff Variation	31.922583	**Std Error Mean**	0.10791623

Basic Statistical Measures			
Location		**Variability**	
Mean	5.534216	**Std Deviation**	1.76666
Median	5.490000	**Variance**	3.12110
Mode	4.210000	**Range**	11.43000
		Interquartile Range	2.19500

Note: The mode displayed is the smallest of 7 modes with a count of 3.

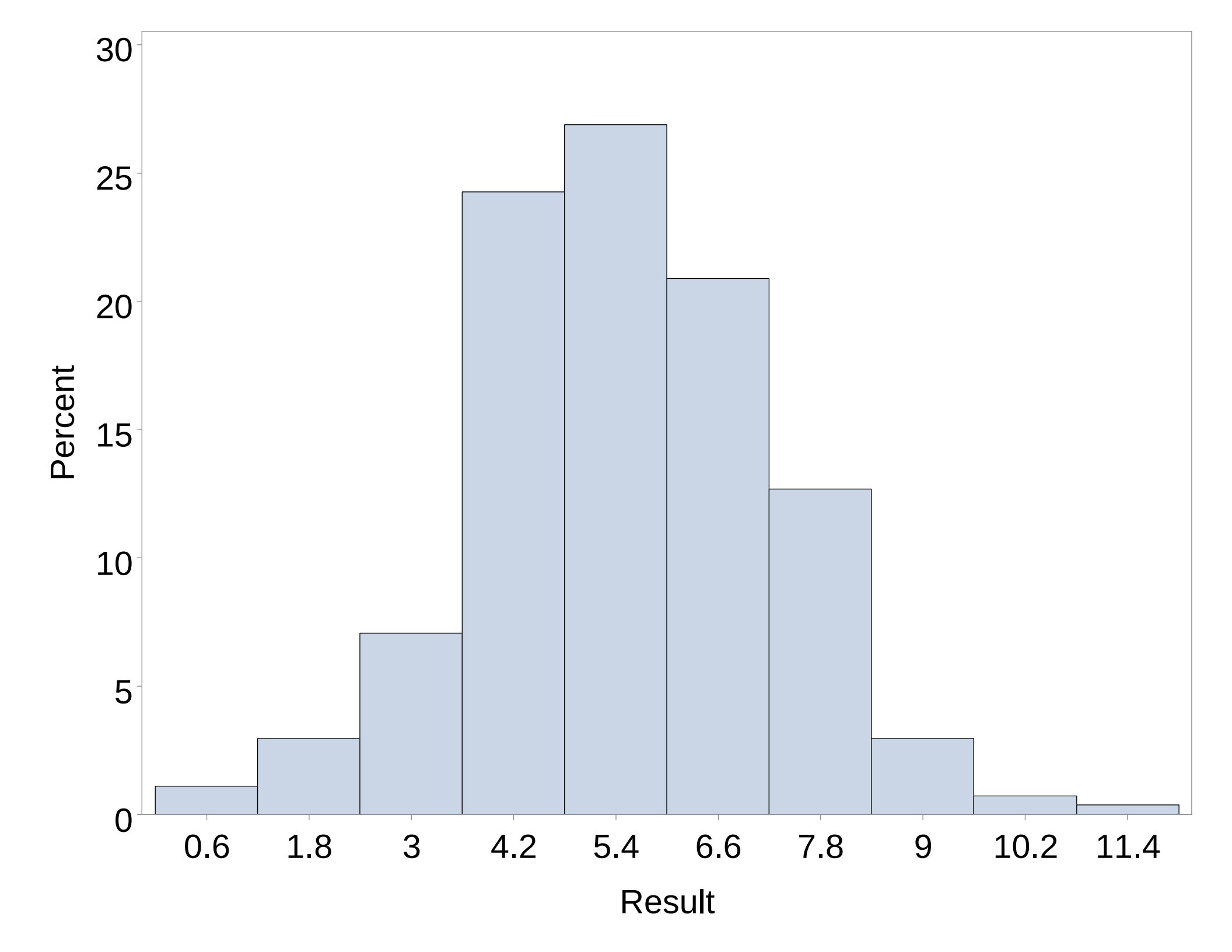
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.28252	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.570
99%	10.360
95%	8.260
90%	7.750
75% Q3	6.630
50% Median	5.490
25% Q1	4.435
10%	3.480
5%	2.580
1%	1.190
0% Min	0.140

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=12.8 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.14	24229	9.15	24305
0.38	24146	9.58	24139
1.19	24145	10.36	24389
1.25	24386	10.43	24258
1.28	24313	11.57	24237


30
25
20
15
10
5
0
Percent
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	313	**Sum Weights**	313
Mean	5.50698083	**Sum Observations**	1723.685
Std Deviation	1.76445656	**Variance**	3.11330696
Skewness	0.36379753	**Kurtosis**	0.65809614
Uncorrected SS	10463.652	**Corrected SS**	971.351772
Coeff Variation	32.0403614	**Std Error Mean**	0.09973298

Basic Statistical Measures			
Location		**Variability**	
Mean	5.506981	**Std Deviation**	1.76446
Median	5.320000	**Variance**	3.11331
Mode	4.500000	**Range**	11.42000
		Interquartile Range	2.27000

Note: The mode displayed is the smallest of 4 modes with a count of 4.

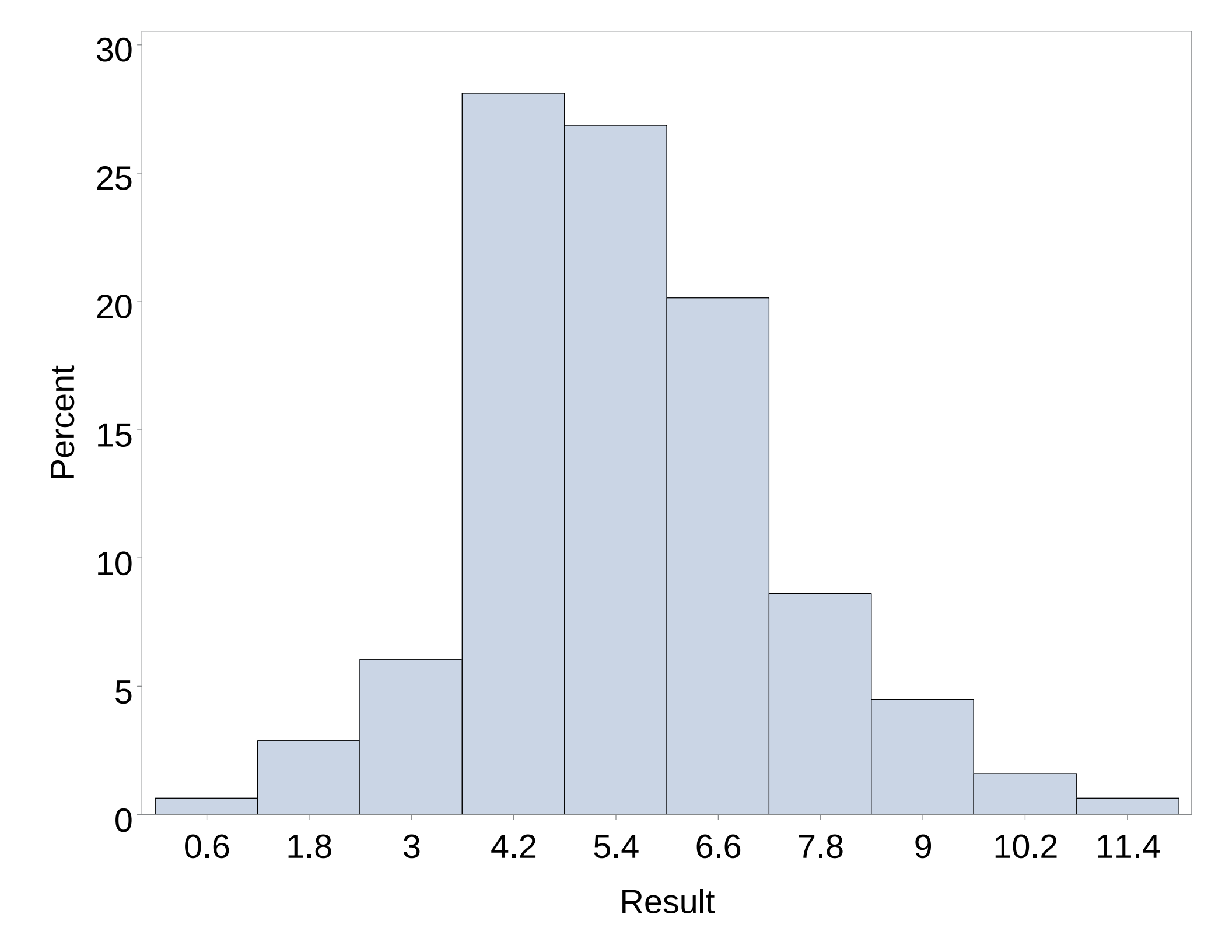
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.21725	**Pr > |t|**	<.0001
Sign	**M**	156.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24570.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.60
99%	10.12
95%	8.70
90%	7.74
75% Q3	6.60
50% Median	5.32
25% Q1	4.33
10%	3.64
5%	2.81
1%	1.49
0% Min	0.18

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.18	24542	9.80	24481
1.11	24699	10.12	24702
1.20	24467	10.25	24545
1.49	24570	11.43	24550
1.53	24494	11.60	24547


30
25
20
15
10
5
0
Percent
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=17.5 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.59843284	**Sum Observations**	1500.38
Std Deviation	1.70567014	**Variance**	2.90931064
Skewness	0.45661194	**Kurtosis**	0.78559116
Uncorrected SS	9176.5626	**Corrected SS**	776.785942
Coeff Variation	30.4669216	**Std Error Mean**	0.10419039

Basic Statistical Measures			
Location		**Variability**	
Mean	5.598433	**Std Deviation**	1.70567
Median	5.475000	**Variance**	2.90931
Mode	4.220000	**Range**	11.23000
		Interquartile Range	2.27500

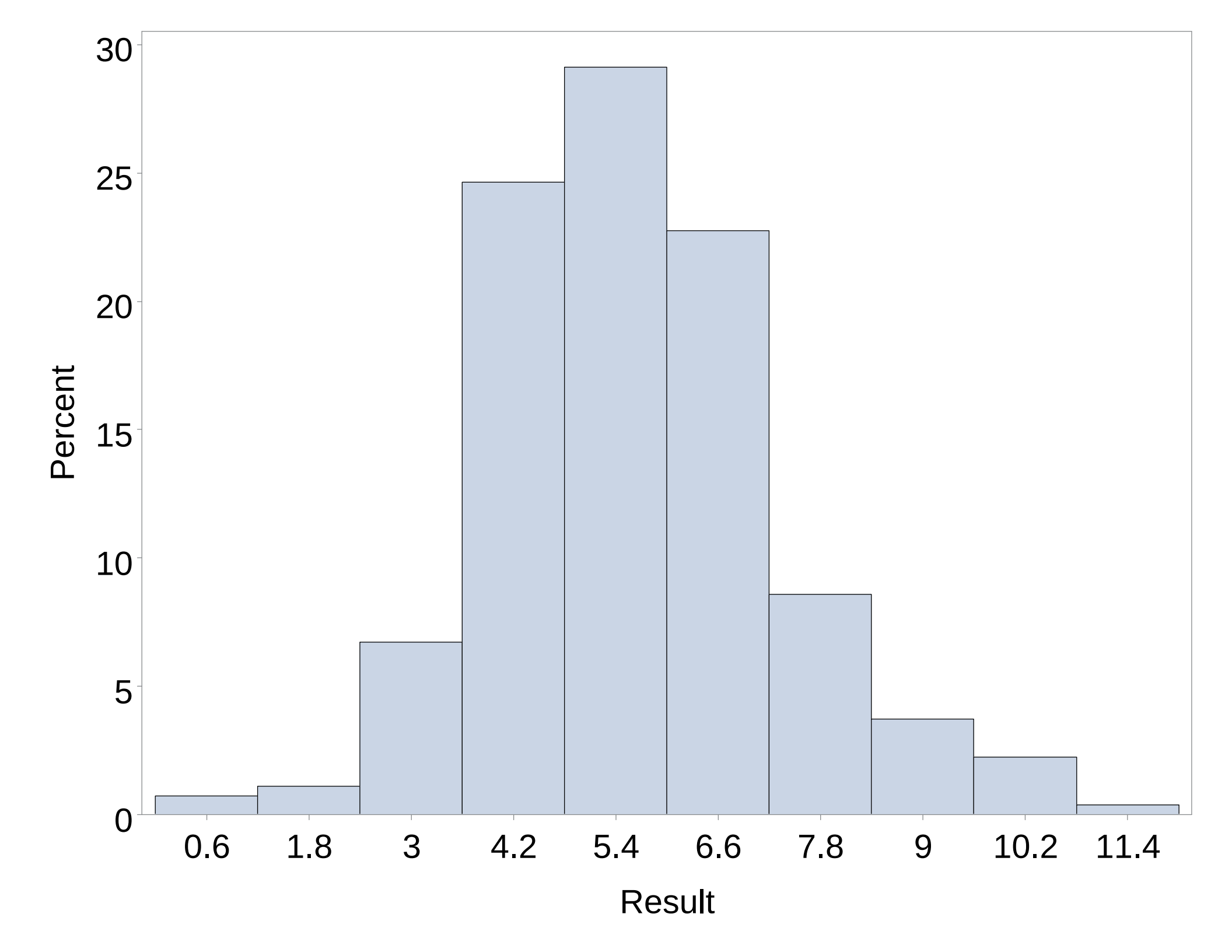
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	53.73272	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.540
99%	10.680
95%	8.570
90%	7.700
75% Q3	6.630
50% Median	5.475
25% Q1	4.355
10%	3.670
5%	3.200
1%	1.940
0% Min	0.310

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=17.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.31	24810	9.79	24825
1.19	24967	10.58	24828
1.94	24858	10.68	24814
1.95	24775	10.70	24818
2.29	24964	11.54	24815


30
25
20
15
10
5
0
Percent
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=20.1 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.44507463	**Sum Observations**	1459.28
Std Deviation	1.75061455	**Variance**	3.06465131
Skewness	0.75686686	**Kurtosis**	2.16458598
Uncorrected SS	8764.1504	**Corrected SS**	818.261899
Coeff Variation	32.1504235	**Std Error Mean**	0.1069358

Basic Statistical Measures			
Location		**Variability**	
Mean	5.445075	**Std Deviation**	1.75061
Median	5.250000	**Variance**	3.06465
Mode	4.480000	**Range**	13.88000
		Interquartile Range	2.24000

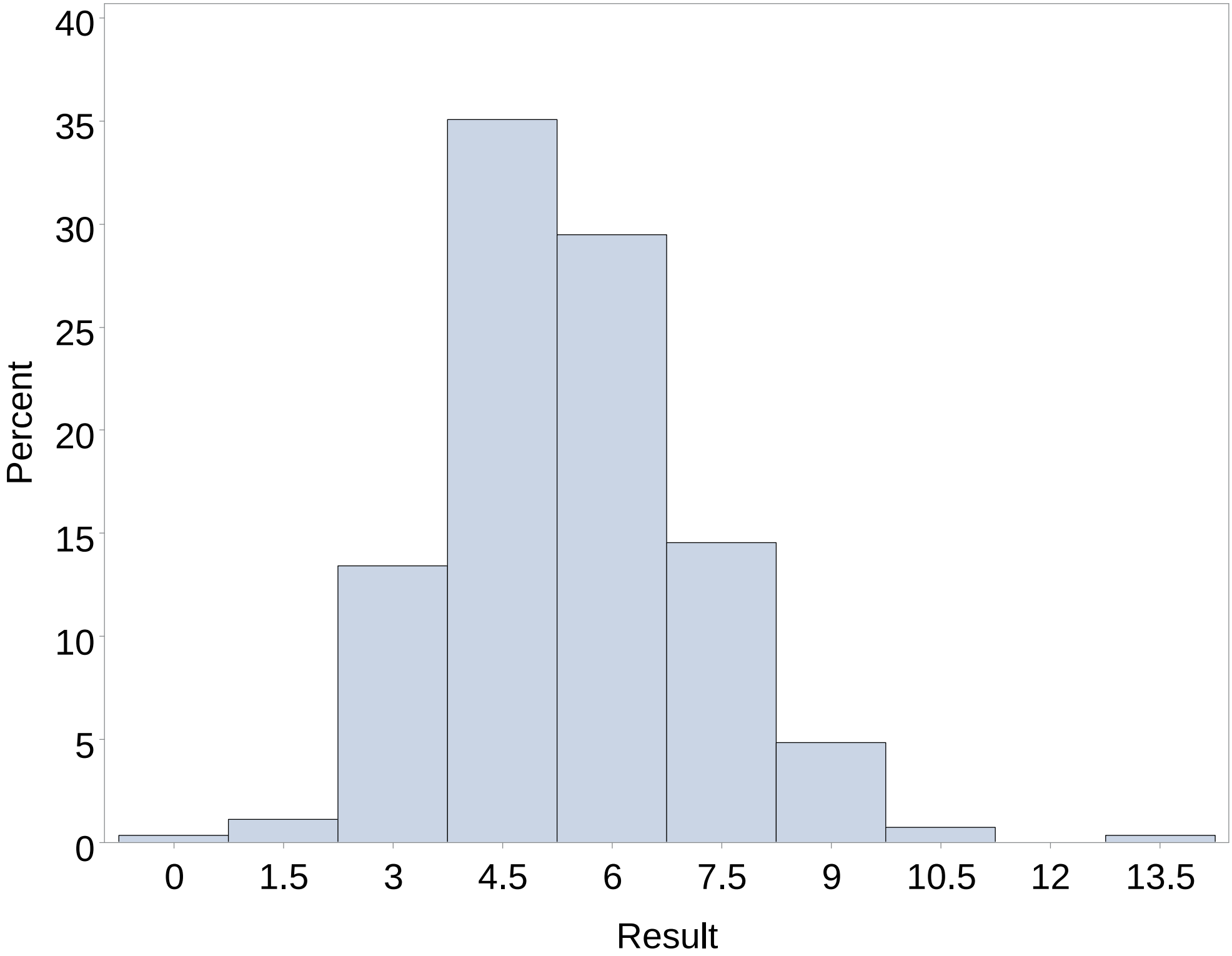
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.9191	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.060
99%	11.110
95%	8.590
90%	7.490
75% Q3	6.555
50% Median	5.250
25% Q1	4.315
10%	3.510
5%	3.180
1%	1.800
0% Min	0.180

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=20.1 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.18	25078	9.55	25093
1.21	25235	9.57	25107
1.80	25043	11.11	25083
1.90	25126	11.17	25086
2.29	25232	14.06	25096


40
35
30
25
20
15
10
5
0
Percent
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=21.9 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.65828358	**Sum Observations**	1516.42
Std Deviation	1.93682335	**Variance**	3.75128468
Skewness	1.03985599	**Kurtosis**	2.85347828
Uncorrected SS	9581.9274	**Corrected SS**	1001.59301
Coeff Variation	34.2298741	**Std Error Mean**	0.11831032

Basic Statistical Measures			
Location		**Variability**	
Mean	5.658284	**Std Deviation**	1.93682
Median	5.390000	**Variance**	3.75128
Mode	4.900000	**Range**	14.04000
		Interquartile Range	2.40500

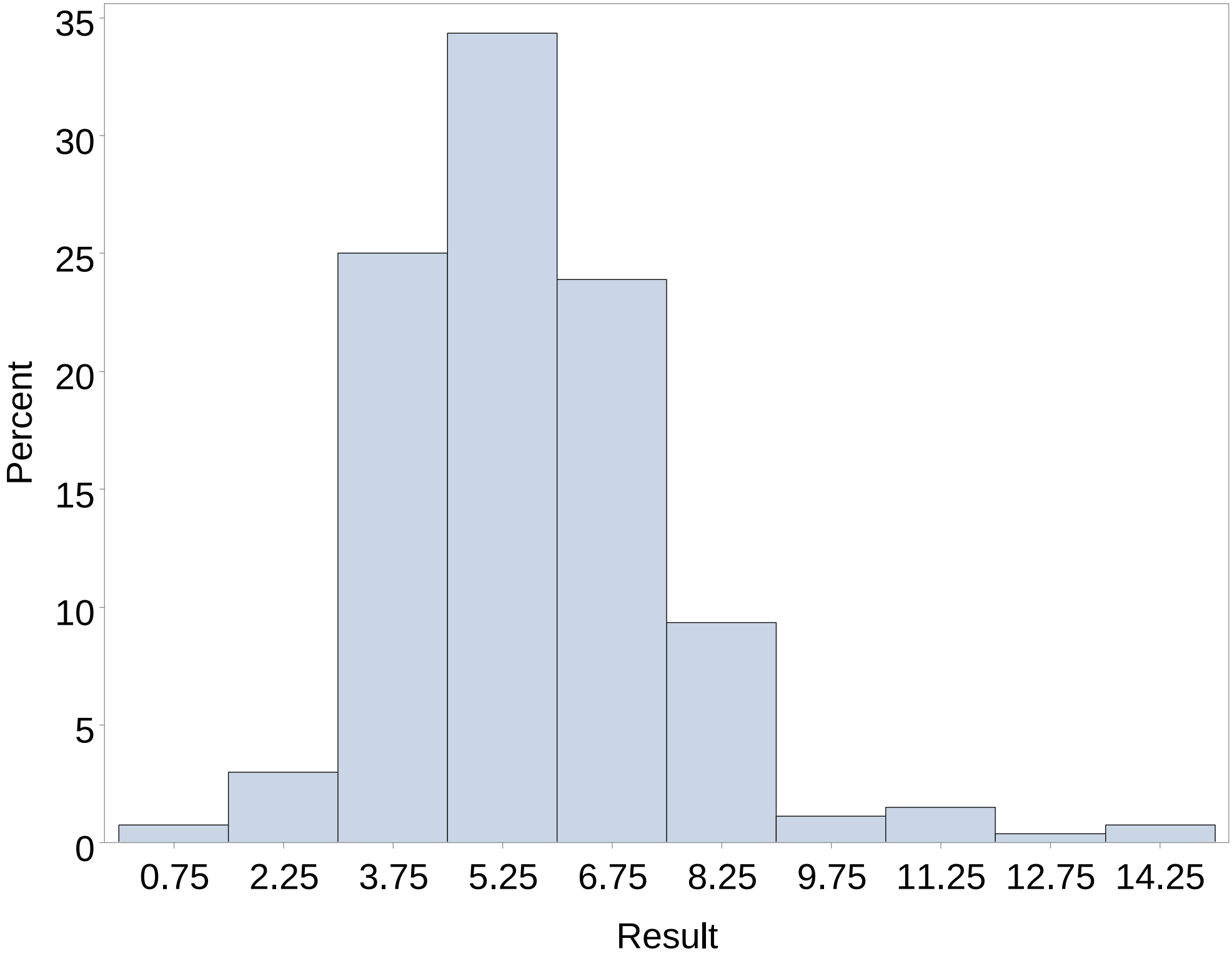
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.82578	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.250
99%	12.340
95%	8.800
90%	7.890
75% Q3	6.775
50% Median	5.390
25% Q1	4.370
10%	3.600
5%	3.230
1%	1.710
0% Min	0.210

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=21.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.21	25346	11.59	25350
1.10	25503	11.64	25363
1.71	25394	12.34	25507
1.76	25311	13.82	25364
2.11	25347	14.25	25354


35
30
25
20
15
10
5
0
Percent
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	313	**Sum Weights**	313
Mean	5.53214058	**Sum Observations**	1731.56
Std Deviation	1.92297135	**Variance**	3.6978188
Skewness	1.24219533	**Kurtosis**	3.87051217
Uncorrected SS	10732.9528	**Corrected SS**	1153.71947
Coeff Variation	34.759987	**Std Error Mean**	0.10869277

Basic Statistical Measures			
Location		**Variability**	
Mean	5.532141	**Std Deviation**	1.92297
Median	5.230000	**Variance**	3.69782
Mode	4.600000	**Range**	15.18000
		Interquartile Range	2.33000

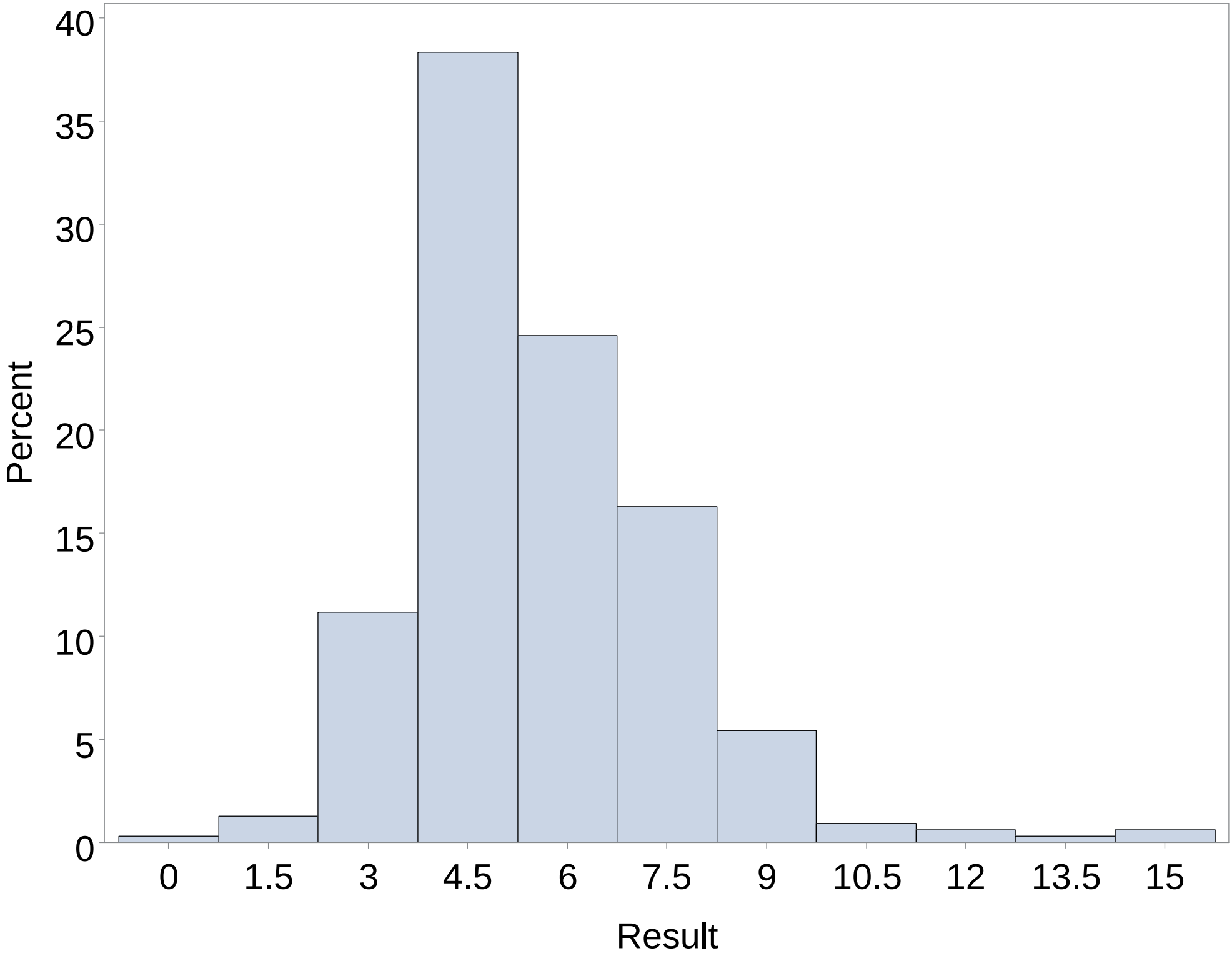
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.89704	**Pr > |t|**	<.0001
Sign	**M**	156.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24570.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.35
99%	12.07
95%	8.61
90%	7.80
75% Q3	6.64
50% Median	5.23
25% Q1	4.31
10%	3.58
5%	3.10
1%	1.78
0% Min	0.17

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.17	25659	11.39	25676
1.06	25816	12.07	25663
1.67	25624	12.77	25667
1.78	25707	14.37	25820
1.94	25660	15.35	25677


Percent
40
35
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=24.7 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.90727612	**Sum Observations**	1583.15
Std Deviation	2.11259015	**Variance**	4.46303712
Skewness	1.1160284	**Kurtosis**	3.08319124
Uncorrected SS	10543.7351	**Corrected SS**	1191.63091
Coeff Variation	35.7625089	**Std Error Mean**	0.12904698

Basic Statistical Measures			
Location		**Variability**	
Mean	5.907276	**Std Deviation**	2.11259
Median	5.575000	**Variance**	4.46304
Mode	6.230000	**Range**	15.66000
		Interquartile Range	2.54500

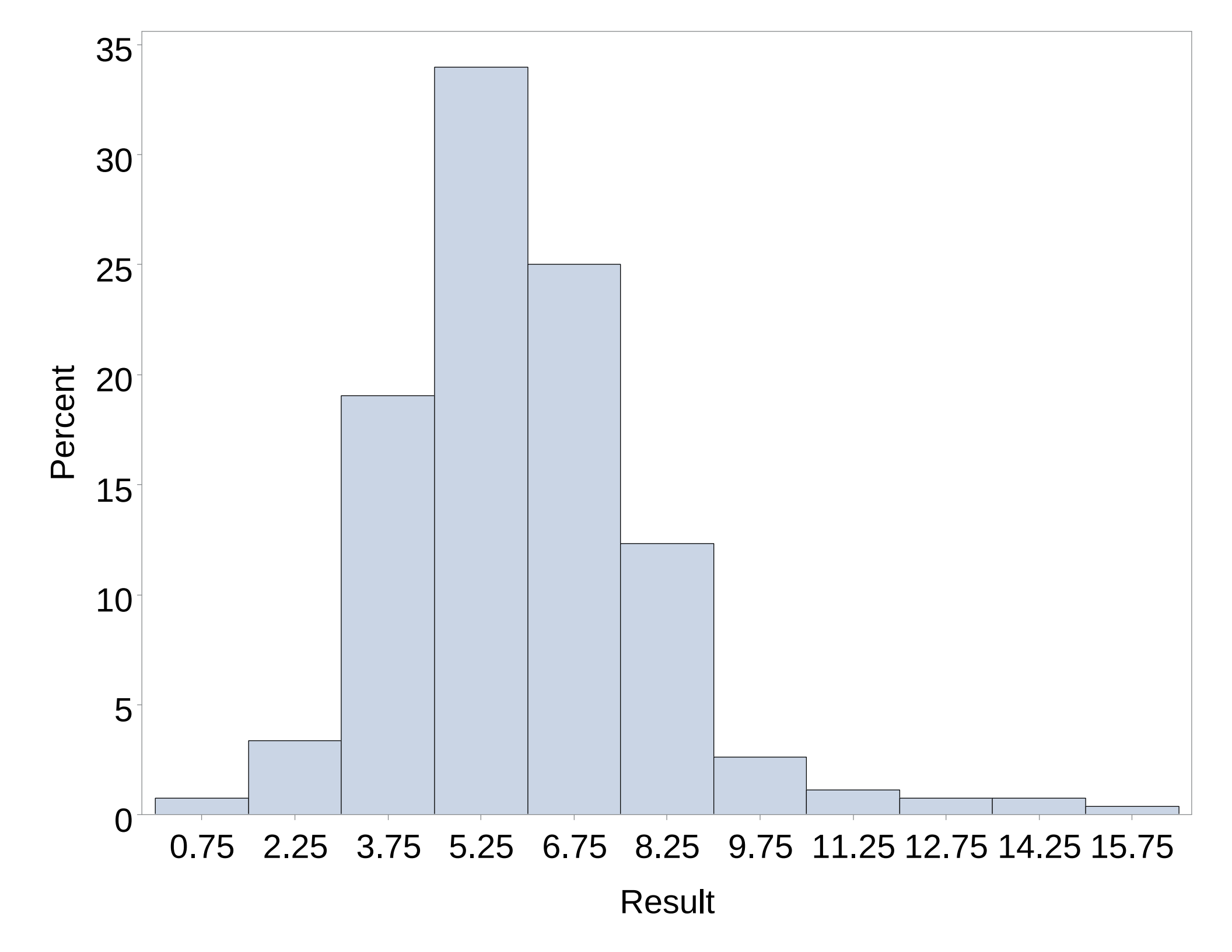
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.77617	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.890
99%	13.730
95%	9.180
90%	8.420
75% Q3	7.105
50% Median	5.575
25% Q1	4.560
10%	3.610
5%	3.170
1%	1.710
0% Min	0.230

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=24.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.23	25927	12.05	25931
1.23	26084	12.19	25922
1.71	25975	13.73	25935
1.83	25892	14.43	26088
1.99	25928	15.89	25945


35
30
25
20
15
10
5
0
Percent
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=25.9 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	6.1271161	**Sum Observations**	1635.94
Std Deviation	2.21413596	**Variance**	4.90239804
Skewness	1.35905367	**Kurtosis**	5.16691003
Uncorrected SS	11327.6322	**Corrected SS**	1304.03788
Coeff Variation	36.1366738	**Std Error Mean**	0.13550292

Basic Statistical Measures			
Location		**Variability**	
Mean	6.127116	**Std Deviation**	2.21414
Median	5.690000	**Variance**	4.90240
Mode	5.400000	**Range**	19.05000
		Interquartile Range	2.63000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

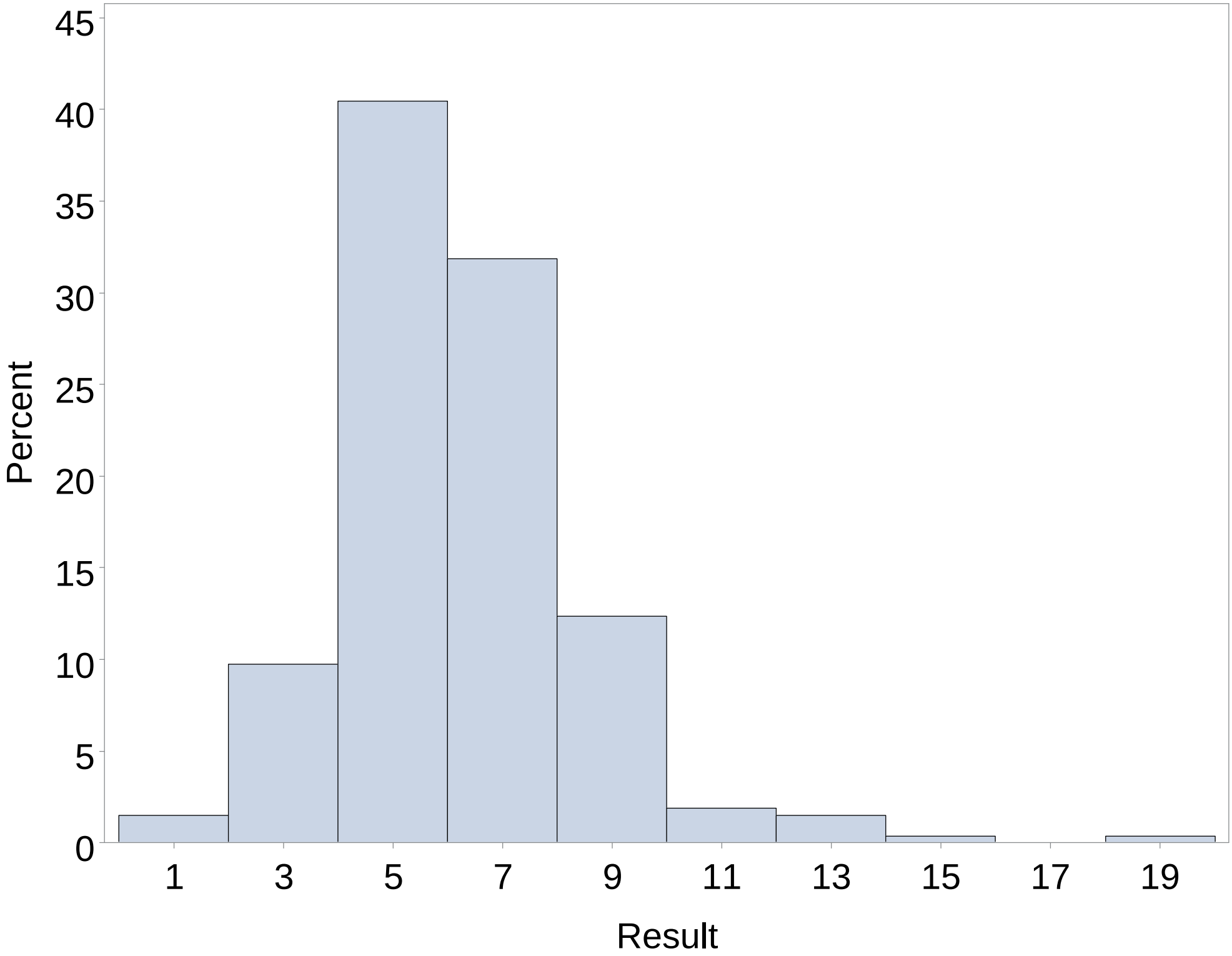
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.21759	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.24
99%	13.35
95%	9.35
90%	8.67
75% Q3	7.33
50% Median	5.69
25% Q1	4.70
10%	3.82
5%	3.27
1%	1.68
0% Min	0.19

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=25.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.19	26194	12.08	26199
1.20	26351	12.50	26357
1.68	26242	13.35	26355
1.79	26159	14.48	26202
2.03	26195	19.24	26212


45
40
35
30
25
20
15
10
5
0
Percent
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=29.5 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	6.17858209	**Sum Observations**	1655.86
Std Deviation	2.083097	**Variance**	4.33929311
Skewness	0.62149794	**Kurtosis**	1.30716242
Uncorrected SS	11389.4582	**Corrected SS**	1158.59126
Coeff Variation	33.7148066	**Std Error Mean**	0.1272454

Basic Statistical Measures			
Location		**Variability**	
Mean	6.178582	**Std Deviation**	2.08310
Median	6.010000	**Variance**	4.33929
Mode	4.110000	**Range**	14.66000
		Interquartile Range	2.77000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

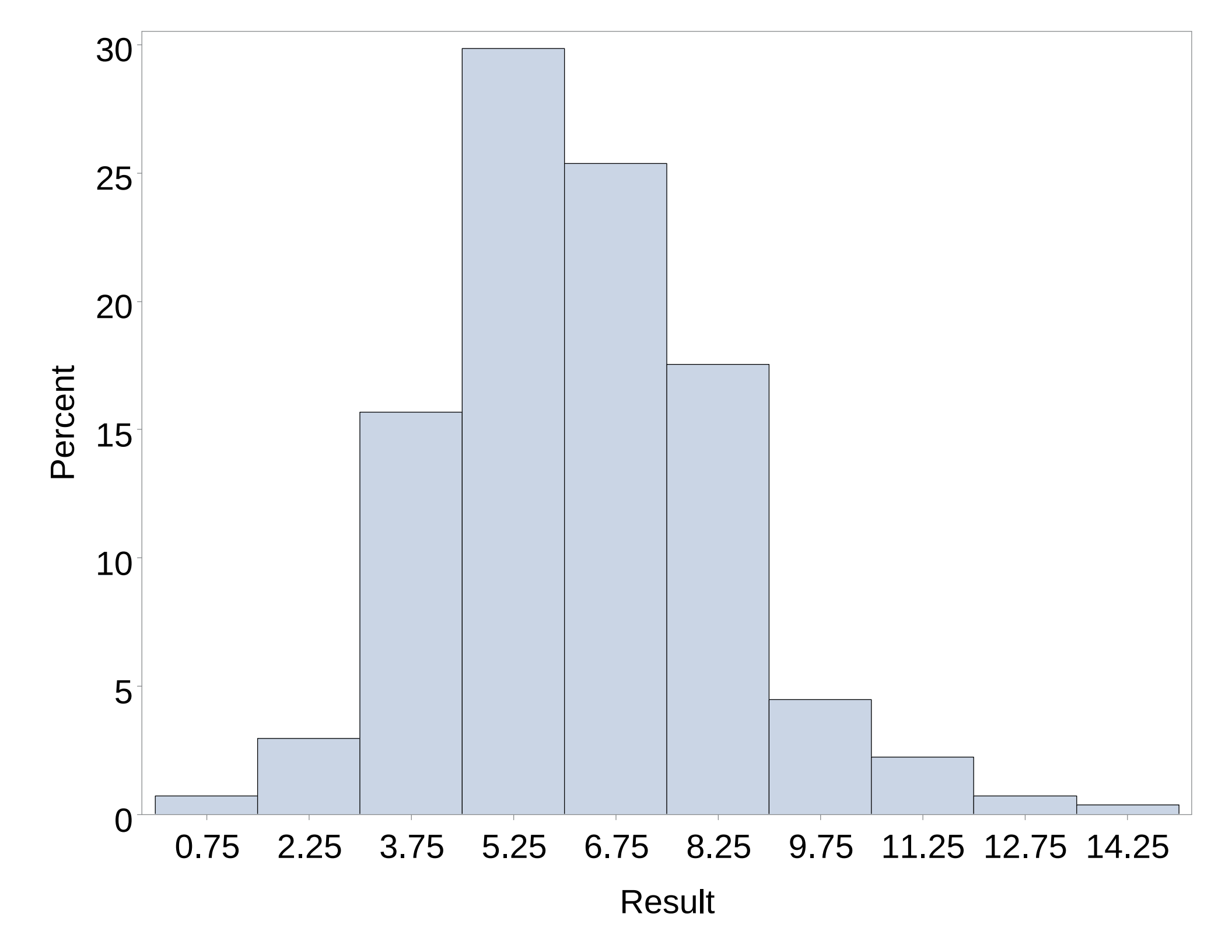
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.55643	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.830
99%	12.230
95%	9.690
90%	8.700
75% Q3	7.515
50% Median	6.010
25% Q1	4.745
10%	3.930
5%	3.180
1%	1.620
0% Min	0.170

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=29.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.17	26462	11.93	26467
0.93	26619	11.94	26457
1.62	26510	12.23	26491
1.72	26427	12.47	26470
1.94	26463	14.83	26480


30
25
20
15
10
5
0
Percent
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	314	**Sum Weights**	314
Mean	6.36984076	**Sum Observations**	2000.13
Std Deviation	1.98955443	**Variance**	3.95832681
Skewness	0.43455655	**Kurtosis**	0.85568701
Uncorrected SS	13979.4659	**Corrected SS**	1238.95629
Coeff Variation	31.2339743	**Std Error Mean**	0.11227705

Basic Statistical Measures			
Location		**Variability**	
Mean	6.369841	**Std Deviation**	1.98955
Median	6.295000	**Variance**	3.95833
Mode	5.700000	**Range**	13.98000
		Interquartile Range	2.60000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

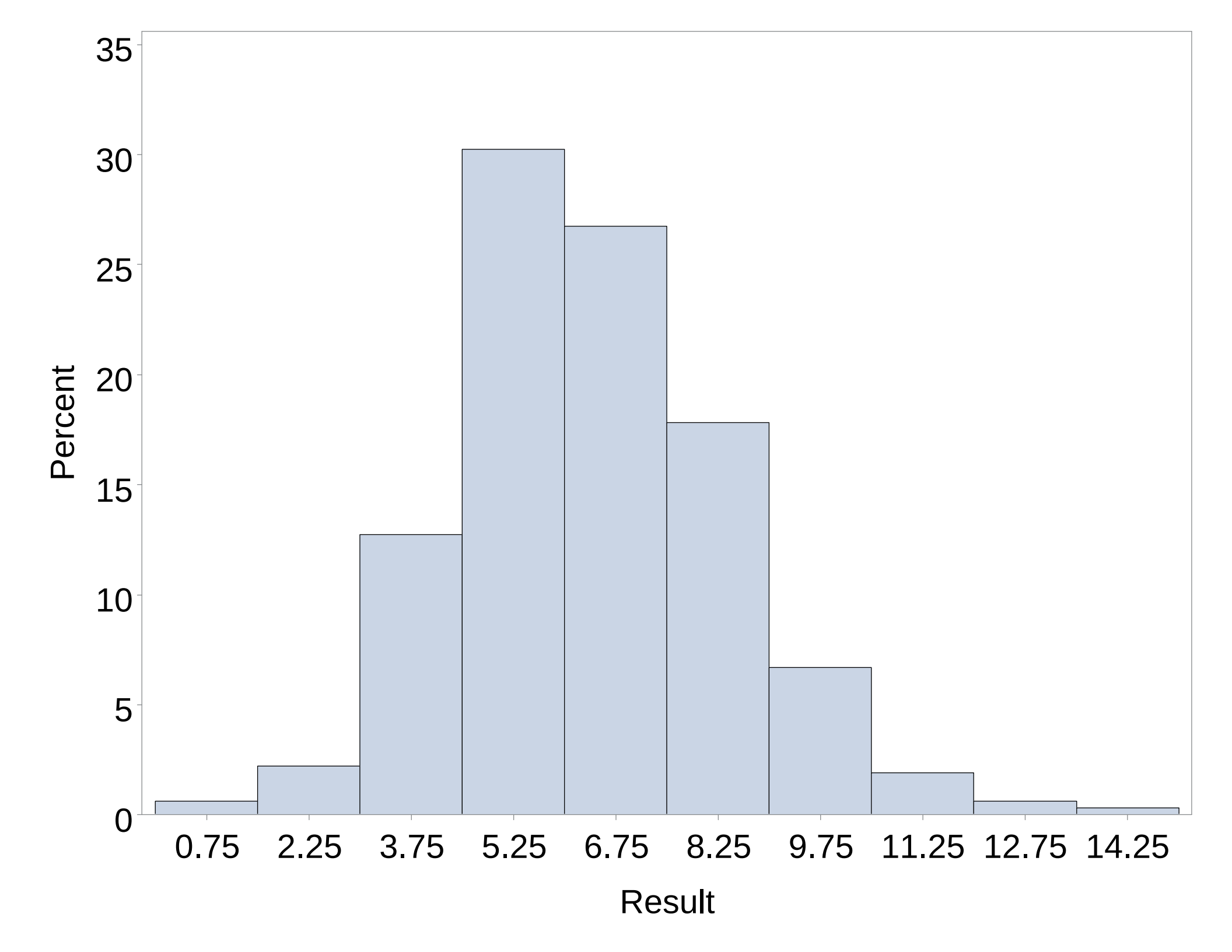
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	56.73324	**Pr > |t|**	<.0001
Sign	**M**	157	**Pr >= |M|**	<.0001
Signed Rank	**S**	24727.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.130
99%	11.840
95%	9.910
90%	8.910
75% Q3	7.600
50% Median	6.295
25% Q1	5.000
10%	4.110
5%	3.560
1%	1.660
0% Min	0.150

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.15	26776	11.82	26781
1.29	26933	11.84	26771
1.61	26824	12.17	26805
1.66	26741	12.29	26784
1.94	26777	14.13	26794


35
30
25
20
15
10
5
0
Percent
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=32.3 Level=Bottom

Moments			
N	266	**Sum Weights**	266
Mean	6.57849624	**Sum Observations**	1749.88
Std Deviation	2.07110908	**Variance**	4.28949282
Skewness	0.45311304	**Kurtosis**	1.25464565
Uncorrected SS	12648.2946	**Corrected SS**	1136.7156
Coeff Variation	31.4830169	**Std Error Mean**	0.12698785

Basic Statistical Measures			
Location		**Variability**	
Mean	6.578496	**Std Deviation**	2.07111
Median	6.430000	**Variance**	4.28949
Mode	5.120000	**Range**	14.97000
		Interquartile Range	2.68000

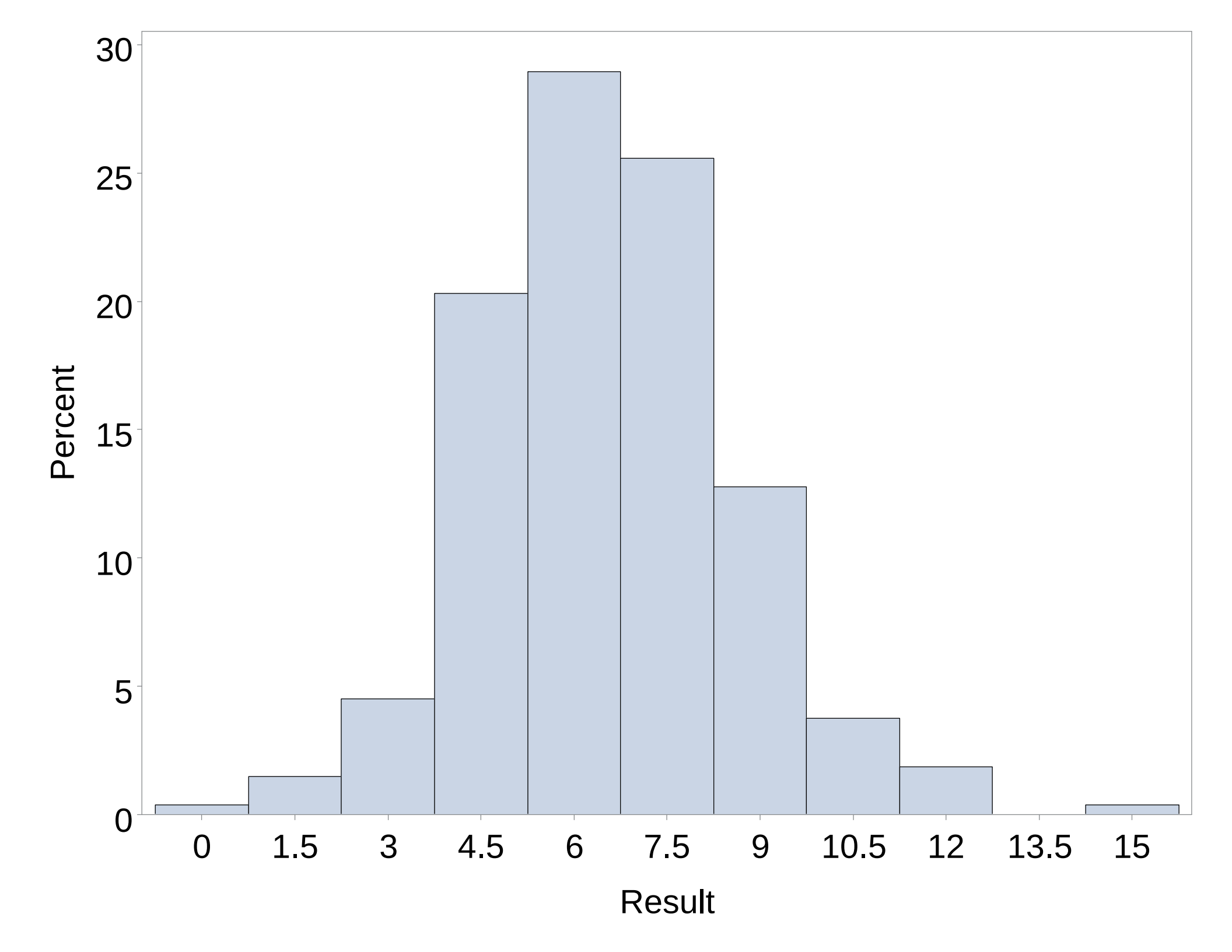
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.80414	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.10
99%	12.70
95%	9.99
90%	9.00
75% Q3	7.88
50% Median	6.43
25% Q1	5.20
10%	4.33
5%	3.45
1%	1.78
0% Min	0.13

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) River Kilometer=32.3 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	27042	12.26	27046
1.48	27199	12.29	27047
1.78	27007	12.70	27037
2.02	27090	12.74	27050
2.12	27043	15.10	27060


30
25
20
15
10
5
0
Percent
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	307	**Sum Weights**	307
Mean	6.95420195	**Sum Observations**	2134.94
Std Deviation	1.23883073	**Variance**	1.53470157
Skewness	0.53049851	**Kurtosis**	2.43506321
Uncorrected SS	15316.4226	**Corrected SS**	469.618679
Coeff Variation	17.8141321	**Std Error Mean**	0.0707038

Basic Statistical Measures			
Location		**Variability**	
Mean	6.954202	**Std Deviation**	1.23883
Median	6.850000	**Variance**	1.53470
Mode	7.400000	**Range**	10.06000
		Interquartile Range	1.38000

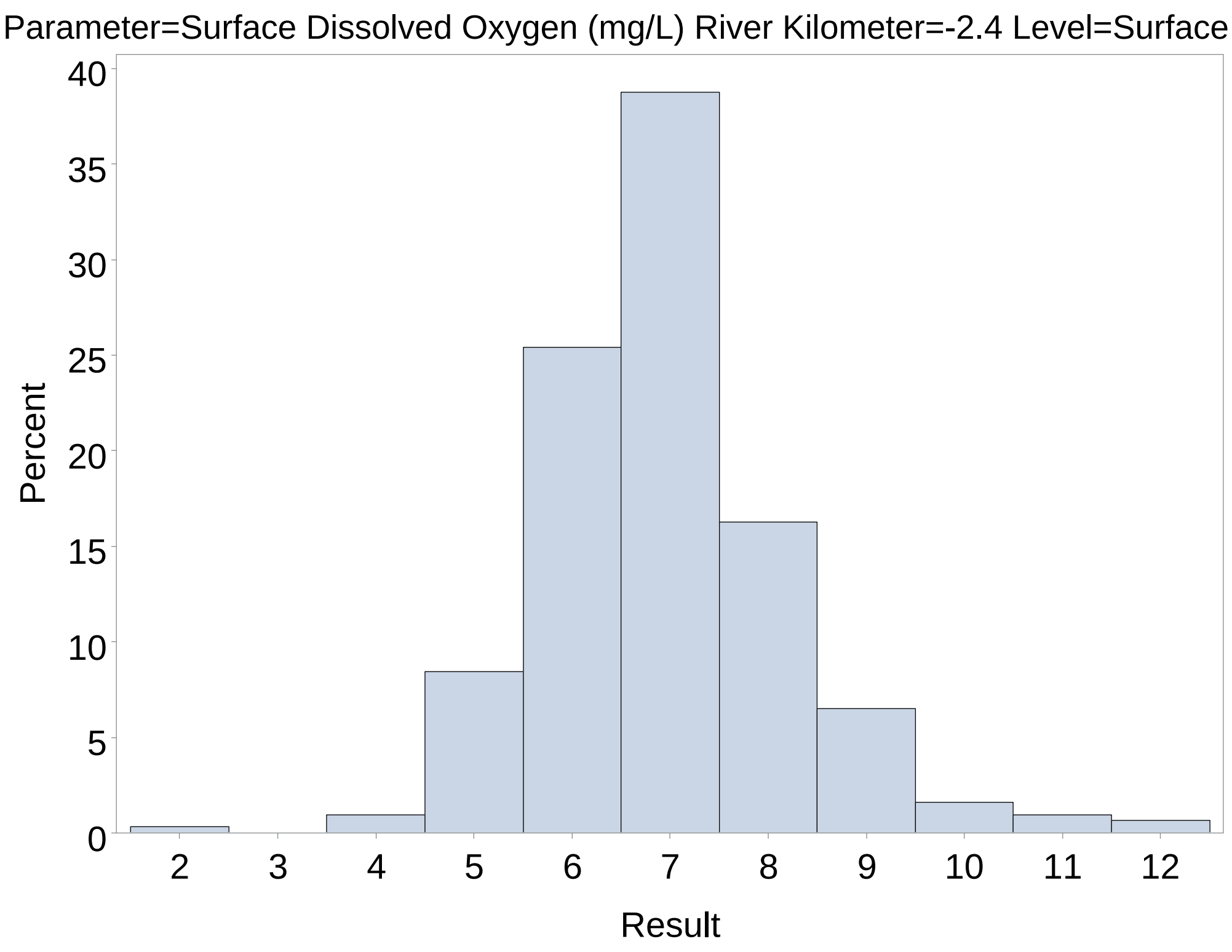
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	98.35683	**Pr > |t|**	<.0001
Sign	**M**	153.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.78
99%	11.11
95%	9.07
90%	8.49
75% Q3	7.59
50% Median	6.85
25% Q1	6.21
10%	5.53
5%	5.14
1%	4.41
0% Min	1.72

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.72	27350	10.68	27354
4.11	27506	11.11	27355
4.39	27314	11.26	27379
4.41	27315	11.59	27368
4.50	27276	11.78	27357


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=-2.4 Level=Surface
Percent
0
5
10
15
20
25
30
35
40
2
3
4
5
6
7
8
9
10
11
12
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	312	**Sum Weights**	312
Mean	6.66669872	**Sum Observations**	2080.01
Std Deviation	1.61518786	**Variance**	2.60883183
Skewness	0.66062579	**Kurtosis**	2.30700243
Uncorrected SS	14678.1467	**Corrected SS**	811.3467
Coeff Variation	24.2277015	**Std Error Mean**	0.09144201

Basic Statistical Measures			
Location		**Variability**	
Mean	6.666699	**Std Deviation**	1.61519
Median	6.590000	**Variance**	2.60883
Mode	6.600000	**Range**	12.38000
		Interquartile Range	1.81500

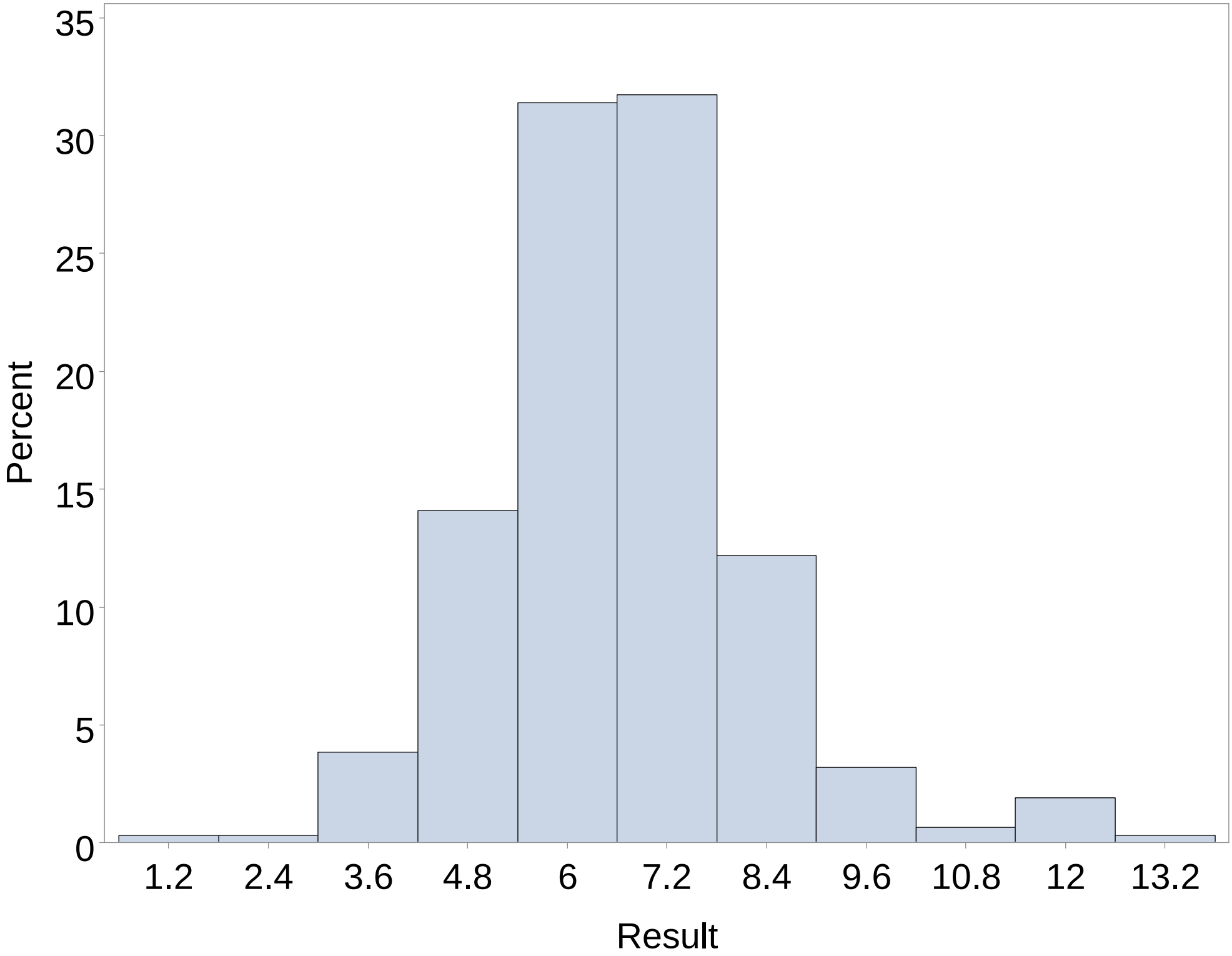
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	72.9063	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.200
99%	11.860
95%	9.130
90%	8.530
75% Q3	7.535
50% Median	6.590
25% Q1	5.720
10%	4.820
5%	4.260
1%	3.430
0% Min	0.820

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.82	27661	11.82	27669
2.96	27818	11.86	27690
3.14	27815	12.11	27685
3.43	27626	12.47	27666
3.47	27758	13.20	27665


35
30
25
20
15
10
5
0
Percent
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=8.4 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.62988806	**Sum Observations**	1776.81
Std Deviation	1.66992442	**Variance**	2.78864755
Skewness	0.77101043	**Kurtosis**	2.24309719
Uncorrected SS	12524.6203	**Corrected SS**	744.568897
Coeff Variation	25.1878222	**Std Error Mean**	0.10200687

Basic Statistical Measures			
Location		**Variability**	
Mean	6.629888	**Std Deviation**	1.66992
Median	6.480000	**Variance**	2.78865
Mode	5.450000	**Range**	11.74000
		Interquartile Range	1.94000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

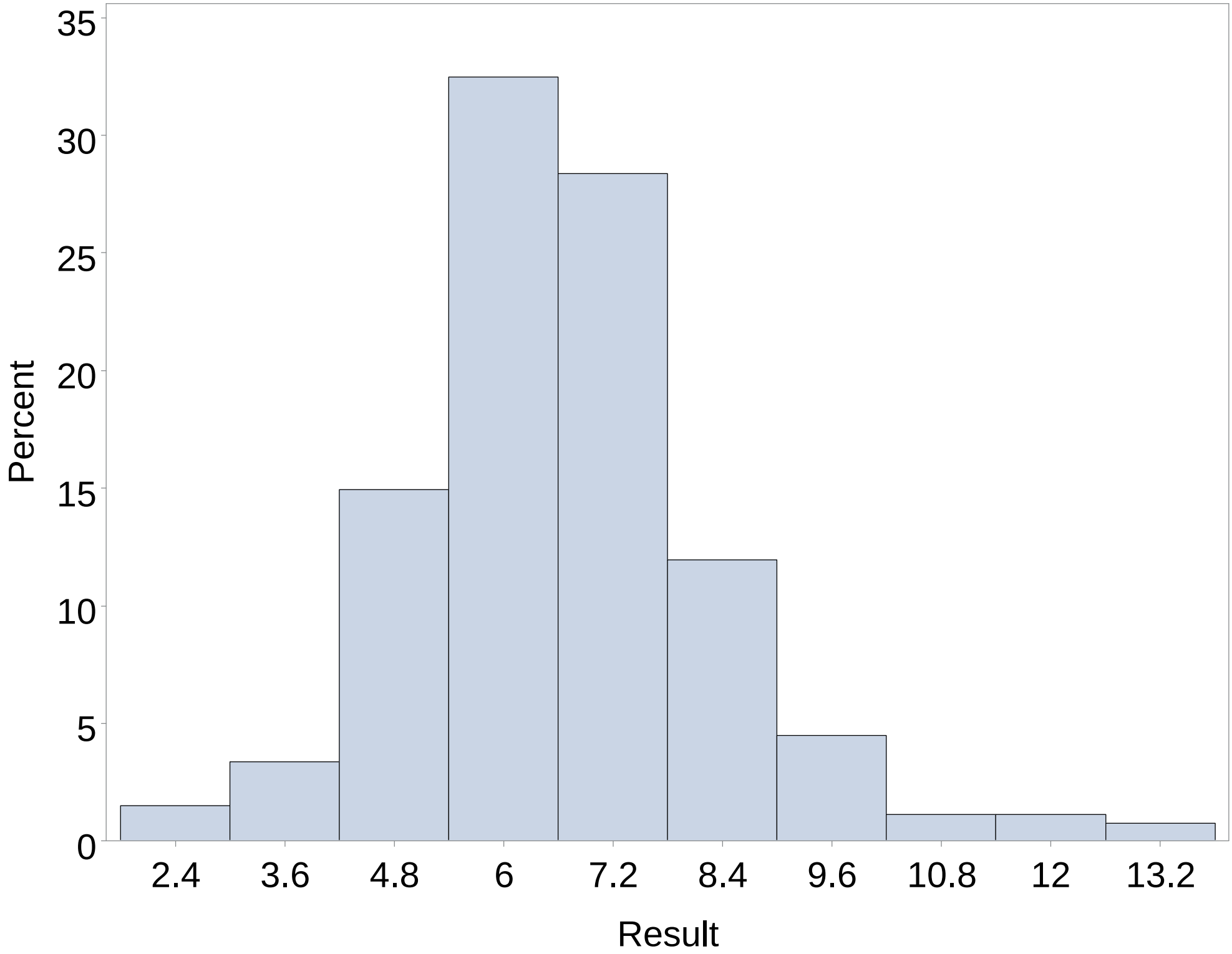
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	64.99453	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.730
99%	12.180
95%	9.330
90%	8.520
75% Q3	7.495
50% Median	6.480
25% Q1	5.555
10%	4.740
5%	4.300
1%	2.860
0% Min	1.990

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=8.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.99	27929	11.43	27958
2.19	28086	11.82	27947
2.86	27894	12.18	27937
2.94	28095	13.16	27934
3.70	28083	13.73	27933


35
30
25
20
15
10
5
0
Percent
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=10.5 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.66858209	**Sum Observations**	1787.18
Std Deviation	1.76587191	**Variance**	3.1183036
Skewness	0.59605309	**Kurtosis**	1.76716915
Uncorrected SS	12750.5436	**Corrected SS**	832.587061
Coeff Variation	26.4804704	**Std Error Mean**	0.10786779

Basic Statistical Measures			
Location		**Variability**	
Mean	6.668582	**Std Deviation**	1.76587
Median	6.505000	**Variance**	3.11830
Mode	5.000000	**Range**	13.45000
		Interquartile Range	2.19500

Note: The mode displayed is the smallest of 8 modes with a count of 3.

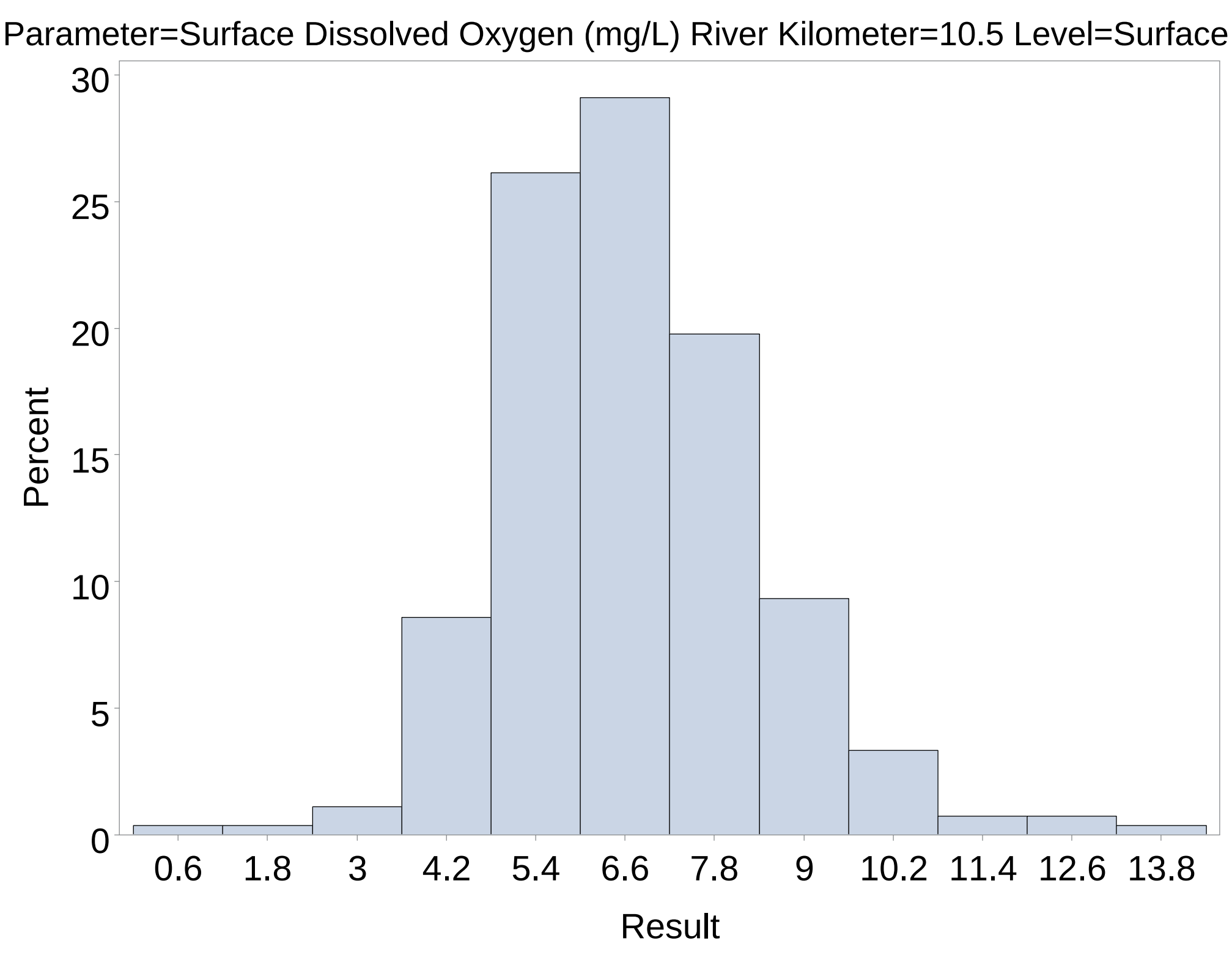
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	61.82181	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.070
99%	12.230
95%	9.720
90%	8.760
75% Q3	7.725
50% Median	6.505
25% Q1	5.530
10%	4.750
5%	4.180
1%	2.830
0% Min	0.620

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=10.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.62	28197	11.64	28205
1.95	28354	11.84	28226
2.83	28162	12.23	28343
3.19	28351	12.67	28202
3.59	28245	14.07	28201


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=10.5 Level=Surface
Percent
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
13.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=12.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.58705224	**Sum Observations**	1765.33
Std Deviation	1.82983859	**Variance**	3.34830926
Skewness	0.7945197	**Kurtosis**	1.73988964
Uncorrected SS	12522.3195	**Corrected SS**	893.998571
Coeff Variation	27.7793241	**Std Error Mean**	0.11177518

Basic Statistical Measures			
Location		**Variability**	
Mean	6.587052	**Std Deviation**	1.82984
Median	6.345000	**Variance**	3.34831
Mode	5.700000	**Range**	13.55000
		Interquartile Range	2.37000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

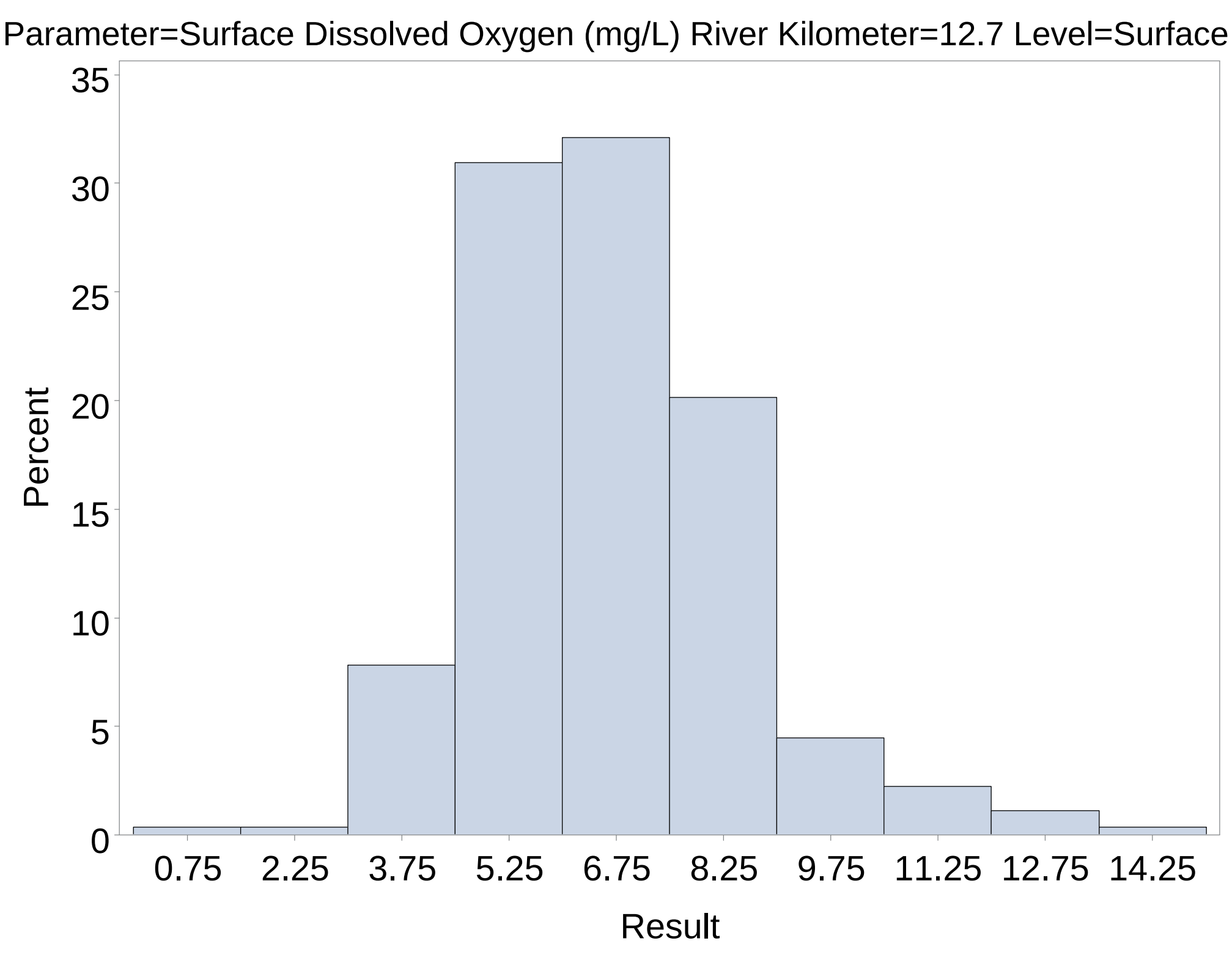
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.93126	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.230
99%	12.460
95%	9.610
90%	8.610
75% Q3	7.610
50% Median	6.345
25% Q1	5.240
10%	4.600
5%	4.190
1%	3.050
0% Min	0.680

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=12.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.68	28465	11.81	28473
2.97	28619	12.01	28450
3.05	28430	12.46	28478
3.41	28512	13.04	28470
3.49	28513	14.23	28469


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=12.7 Level=Surface
Percent
35
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=12.8 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.58858209	**Sum Observations**	1765.74
Std Deviation	1.91666402	**Variance**	3.67360098
Skewness	0.58533639	**Kurtosis**	1.35102117
Uncorrected SS	12614.5744	**Corrected SS**	980.851461
Coeff Variation	29.0906905	**Std Error Mean**	0.11707889

Basic Statistical Measures			
Location		**Variability**	
Mean	6.588582	**Std Deviation**	1.91666
Median	6.400000	**Variance**	3.67360
Mode	5.950000	**Range**	13.30000
		Interquartile Range	2.54500

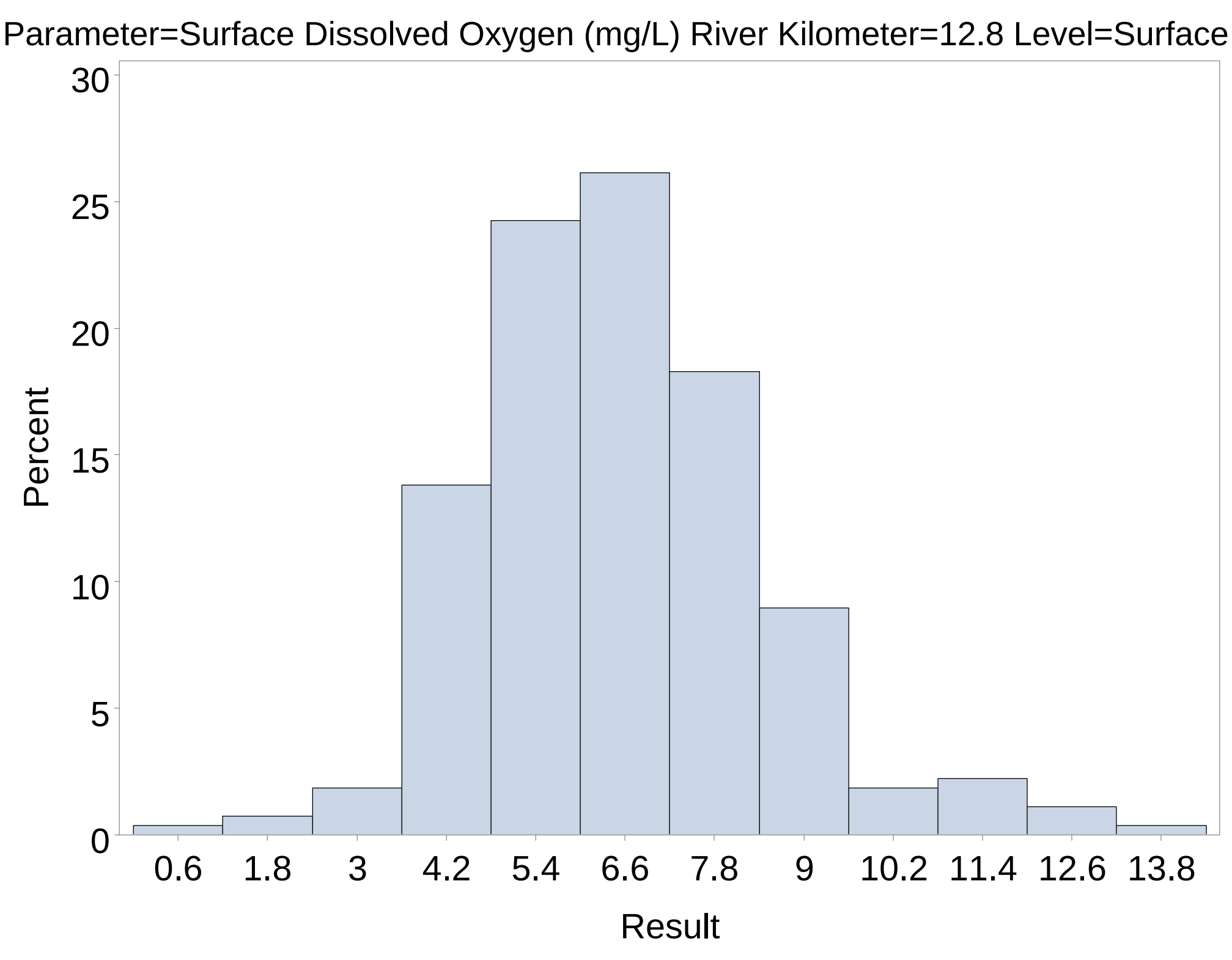
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	56.27472	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.570
99%	12.450
95%	9.660
90%	8.920
75% Q3	7.760
50% Median	6.400
25% Q1	5.215
10%	4.430
5%	4.000
1%	2.390
0% Min	0.270

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=12.8 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.27	28733	11.92	28759
1.32	28890	12.36	28741
2.39	28698	12.45	28857
2.72	28887	12.98	28738
3.26	28840	13.57	28737


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=12.8 Level=Surface
Percent
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
13.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	313	**Sum Weights**	313
Mean	6.45821885	**Sum Observations**	2021.4225
Std Deviation	1.85116336	**Variance**	3.42680579
Skewness	0.47363799	**Kurtosis**	1.35214239
Uncorrected SS	14123.9523	**Corrected SS**	1069.16341
Coeff Variation	28.6636827	**Std Error Mean**	0.10463394

Basic Statistical Measures			
Location		**Variability**	
Mean	6.458219	**Std Deviation**	1.85116
Median	6.400000	**Variance**	3.42681
Mode	4.970000	**Range**	13.78000
		Interquartile Range	2.45000

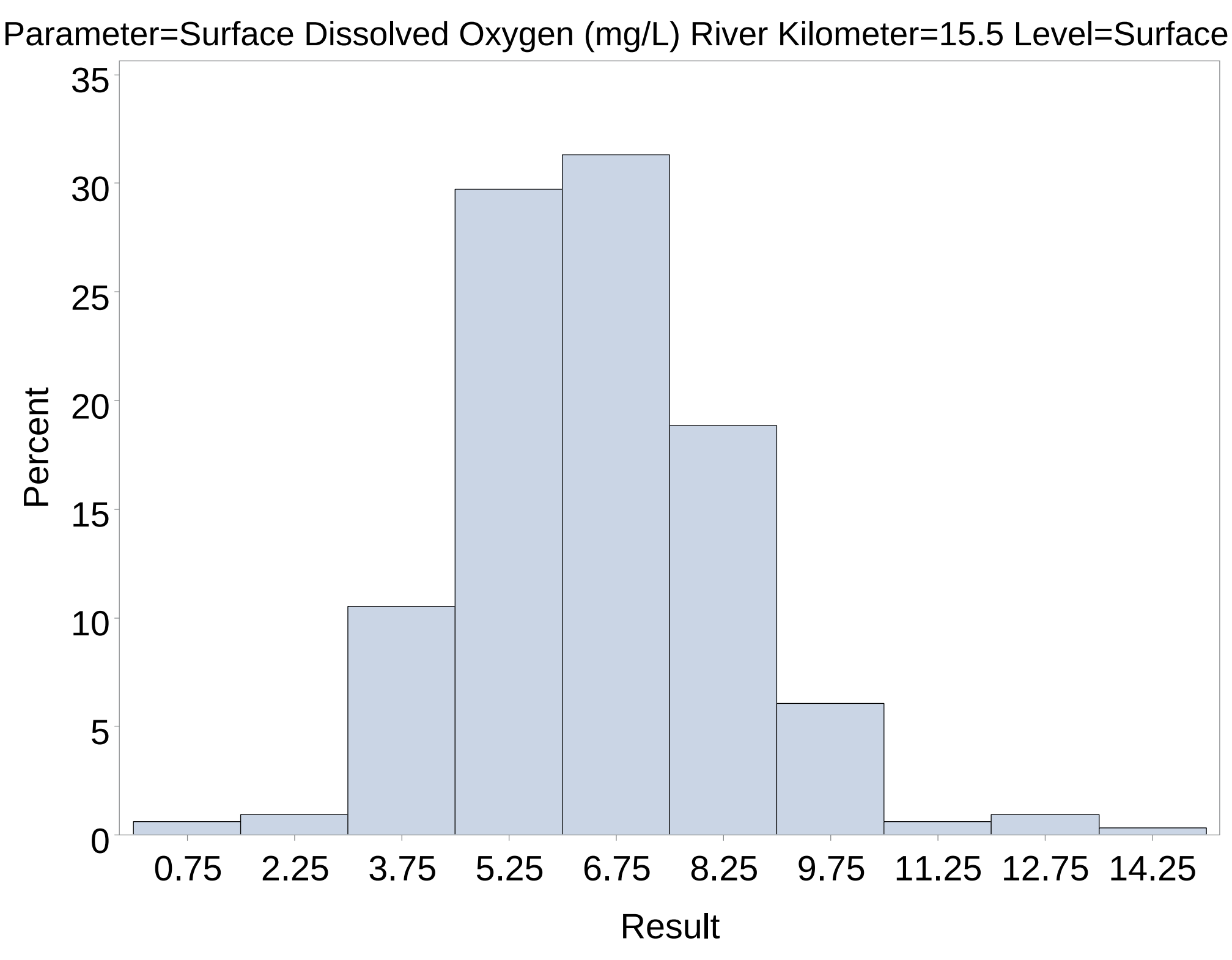
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	61.72203	**Pr > |t|**	<.0001
Sign	**M**	156.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24570.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.11000
99%	12.09000
95%	9.37250
90%	8.83333
75% Q3	7.57000
50% Median	6.40000
25% Q1	5.12000
10%	4.33333
5%	3.82000
1%	2.50000
0% Min	0.33000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.33	29046	11.74	29064
1.15	29203	12.09	29051
2.23	29094	12.48	29054
2.50	29011	12.98	29050
2.85	29200	14.11	28959


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=15.5 Level=Surface
Percent
35
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=17.5 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.4266791	**Sum Observations**	1722.35
Std Deviation	1.95933141	**Variance**	3.83897957
Skewness	0.55585314	**Kurtosis**	1.24834155
Uncorrected SS	12093.9983	**Corrected SS**	1025.00754
Coeff Variation	30.4874629	**Std Error Mean**	0.11968521

Basic Statistical Measures			
Location		**Variability**	
Mean	6.426679	**Std Deviation**	1.95933
Median	6.320000	**Variance**	3.83898
Mode	4.800000	**Range**	12.71000
		Interquartile Range	2.75500

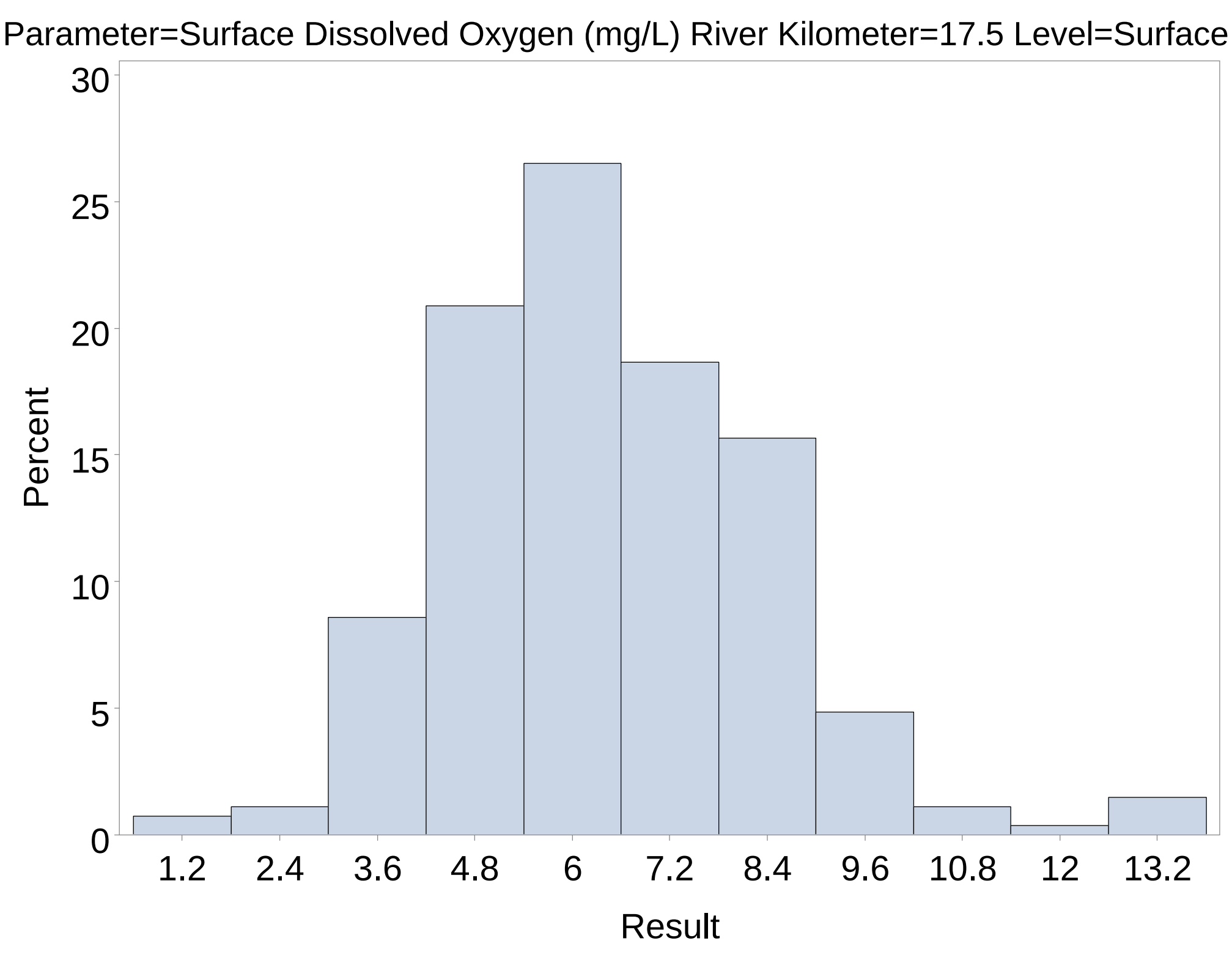
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	53.69652	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.610
99%	13.080
95%	9.410
90%	8.800
75% Q3	7.660
50% Median	6.320
25% Q1	4.905
10%	4.130
5%	3.780
1%	2.060
0% Min	0.900

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=17.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.90	29314	12.06	29332
1.23	29471	12.82	29319
2.06	29362	13.08	29322
2.23	29279	13.13	29318
2.50	29468	13.61	29327


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=17.5 Level=Surface
Percent
30
25
20
15
10
5
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=20.1 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.23947761	**Sum Observations**	1672.18
Std Deviation	1.96527831	**Variance**	3.86231883
Skewness	0.77826657	**Kurtosis**	2.35322217
Uncorrected SS	11464.7688	**Corrected SS**	1031.23913
Coeff Variation	31.4974815	**Std Error Mean**	0.12004848

Basic Statistical Measures			
Location		**Variability**	
Mean	6.239478	**Std Deviation**	1.96528
Median	6.200000	**Variance**	3.86232
Mode	3.830000	**Range**	15.12000
		Interquartile Range	2.72500

Note: The mode displayed is the smallest of 2 modes with a count of 4.

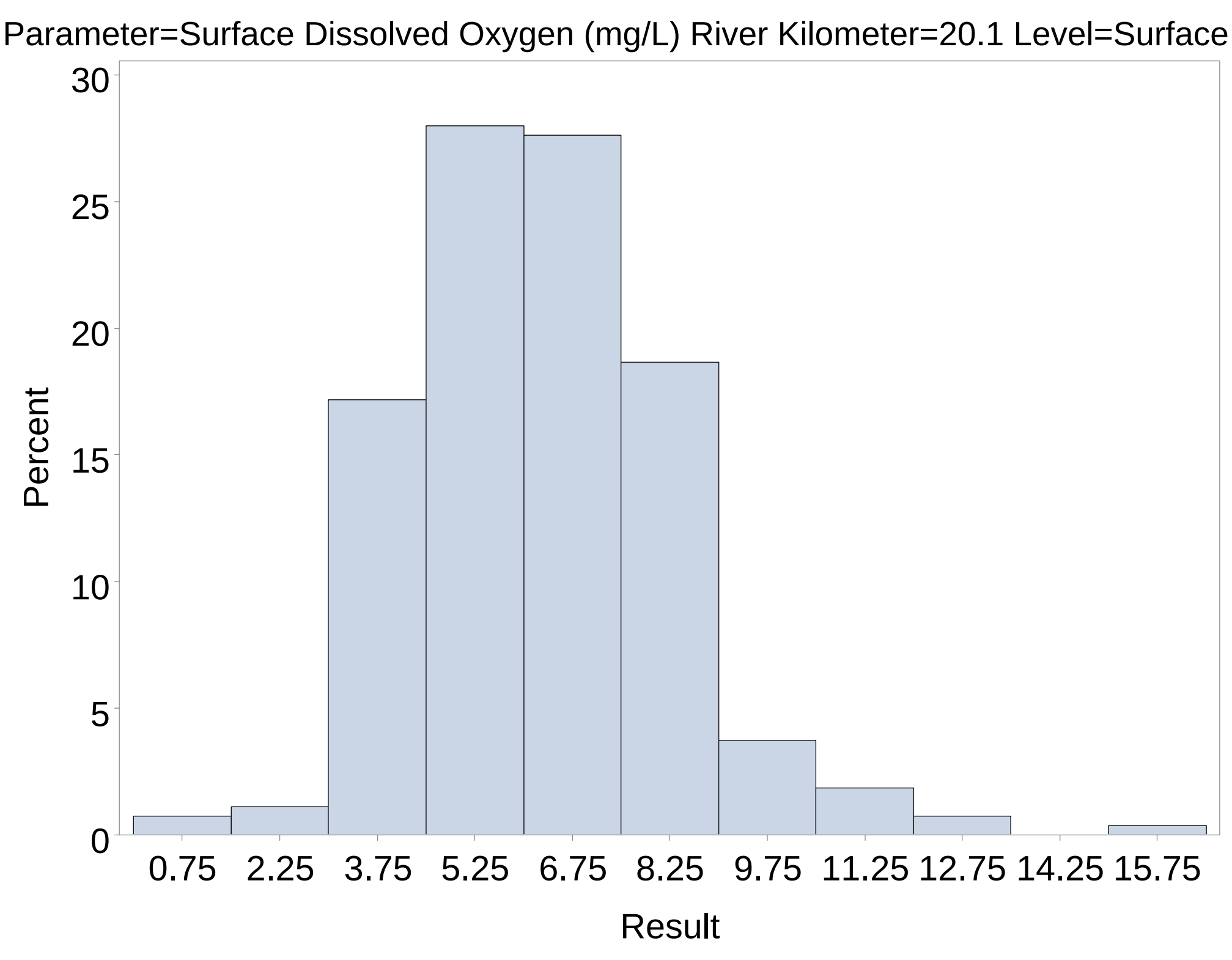
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.97465	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.710
99%	12.090
95%	9.220
90%	8.370
75% Q3	7.500
50% Median	6.200
25% Q1	4.775
10%	4.020
5%	3.730
1%	2.000
0% Min	0.590

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=20.1 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.59	29582	11.41	29578
1.25	29739	11.99	29587
2.00	29630	12.09	29590
2.04	29547	13.29	29586
2.45	29736	15.71	29600


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=20.1 Level=Surface
Percent
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=21.9 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.12119403	**Sum Observations**	1640.48
Std Deviation	2.12220719	**Variance**	4.50376336
Skewness	1.62743673	**Kurtosis**	6.6998003
Uncorrected SS	11244.2012	**Corrected SS**	1202.50482
Coeff Variation	34.6698239	**Std Error Mean**	0.12963444

Basic Statistical Measures			
Location		**Variability**	
Mean	6.121194	**Std Deviation**	2.12221
Median	5.955000	**Variance**	4.50376
Mode	5.200000	**Range**	18.58000
		Interquartile Range	2.32000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

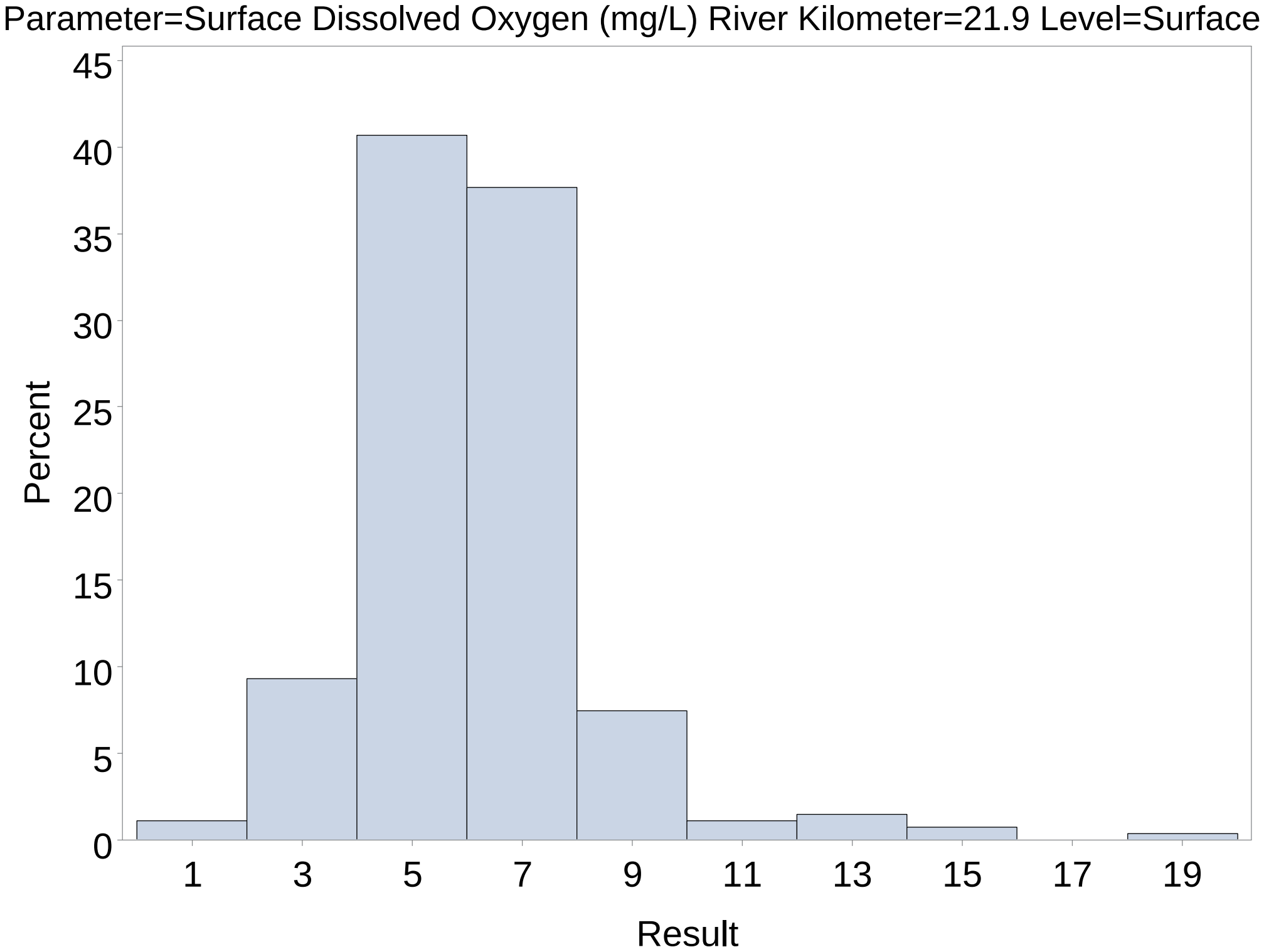
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.21889	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.950
99%	14.250
95%	9.400
90%	8.230
75% Q3	7.050
50% Median	5.955
25% Q1	4.730
10%	3.980
5%	3.610
1%	1.820
0% Min	0.370

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=21.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.37	29850	12.83	29854
1.12	30007	13.60	30011
1.82	29898	14.25	29867
2.00	29815	14.74	29858
2.40	29851	18.95	29868


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=21.9 Level=Surface
Percent
45
40
35
30
25
20
15
10
5
0
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	312	**Sum Weights**	312
Mean	6.21169872	**Sum Observations**	1938.05
Std Deviation	2.01856751	**Variance**	4.07461479
Skewness	1.42344982	**Kurtosis**	5.60688681
Uncorrected SS	13305.7879	**Corrected SS**	1267.2052
Coeff Variation	32.4962237	**Std Error Mean**	0.11427888

Basic Statistical Measures			
Location		**Variability**	
Mean	6.211699	**Std Deviation**	2.01857
Median	5.970000	**Variance**	4.07461
Mode	5.200000	**Range**	17.83000
		Interquartile Range	2.45500

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

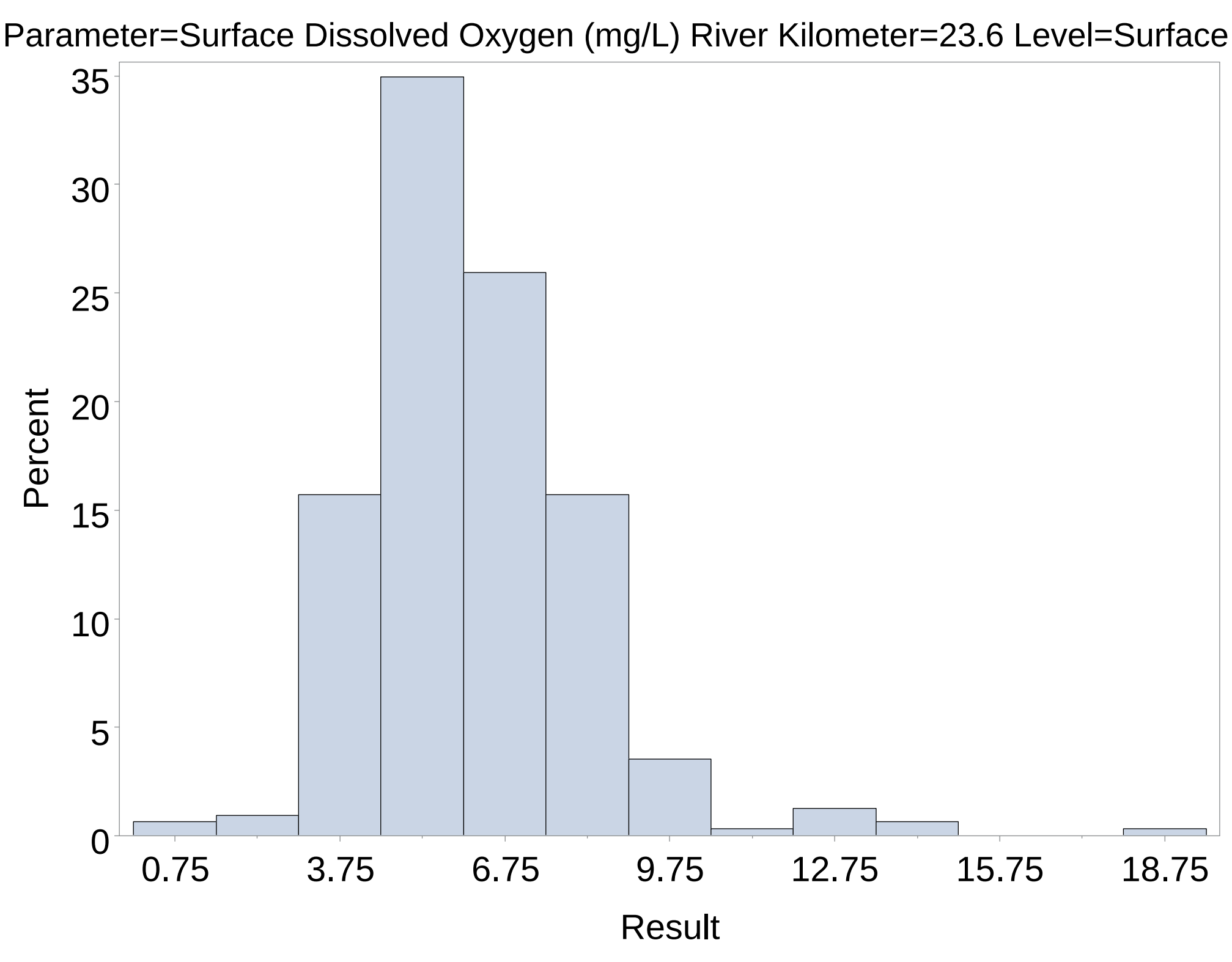
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	54.35561	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.420
99%	13.470
95%	9.270
90%	8.400
75% Q3	7.290
50% Median	5.970
25% Q1	4.835
10%	4.140
5%	3.750
1%	2.580
0% Min	0.590

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.59	30162	12.14	30167
1.14	30319	13.47	30179
1.87	30127	13.65	30170
2.58	30163	14.70	30323
2.75	30316	18.42	30180


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=23.6 Level=Surface
Percent
35
30
25
20
15
10
5
0
0.75
3.75
6.75
9.75
12.75
15.75
18.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=24.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.37503731	**Sum Observations**	1708.51
Std Deviation	2.18635323	**Variance**	4.78014045
Skewness	1.37864215	**Kurtosis**	5.12826223
Uncorrected SS	12168.1125	**Corrected SS**	1276.2975
Coeff Variation	34.2955362	**Std Error Mean**	0.13355278

Basic Statistical Measures			
Location		**Variability**	
Mean	6.375037	**Std Deviation**	2.18635
Median	6.085000	**Variance**	4.78014
Mode	5.500000	**Range**	18.42000
		Interquartile Range	2.53000

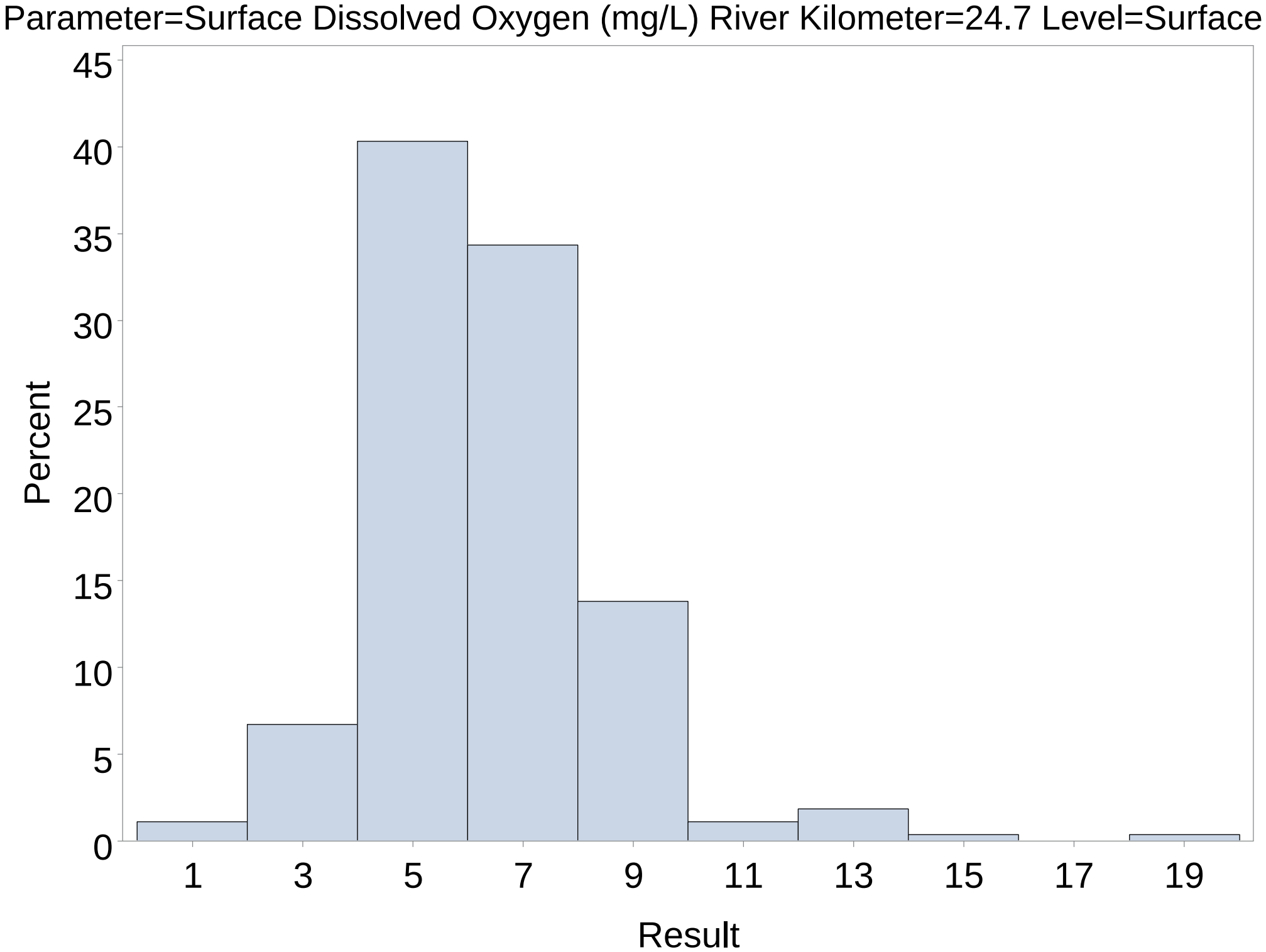
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.73422	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.100
99%	13.730
95%	9.580
90%	9.010
75% Q3	7.500
50% Median	6.085
25% Q1	4.970
10%	4.190
5%	3.620
1%	1.810
0% Min	0.680

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=24.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.68	30430	13.00	30434
1.26	30587	13.05	30447
1.81	30478	13.73	30438
2.01	30395	14.81	30591
2.73	30431	19.10	30448


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=24.7 Level=Surface
Percent
45
40
35
30
25
20
15
10
5
0
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=25.9 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	6.48224719	**Sum Observations**	1730.76
Std Deviation	2.1897446	**Variance**	4.7949814
Skewness	1.14897989	**Kurtosis**	3.65037457
Uncorrected SS	12494.6792	**Corrected SS**	1275.46505
Coeff Variation	33.7806401	**Std Error Mean**	0.13401019

Basic Statistical Measures			
Location		**Variability**	
Mean	6.482247	**Std Deviation**	2.18974
Median	6.220000	**Variance**	4.79498
Mode	7.590000	**Range**	17.49000
		Interquartile Range	2.65000

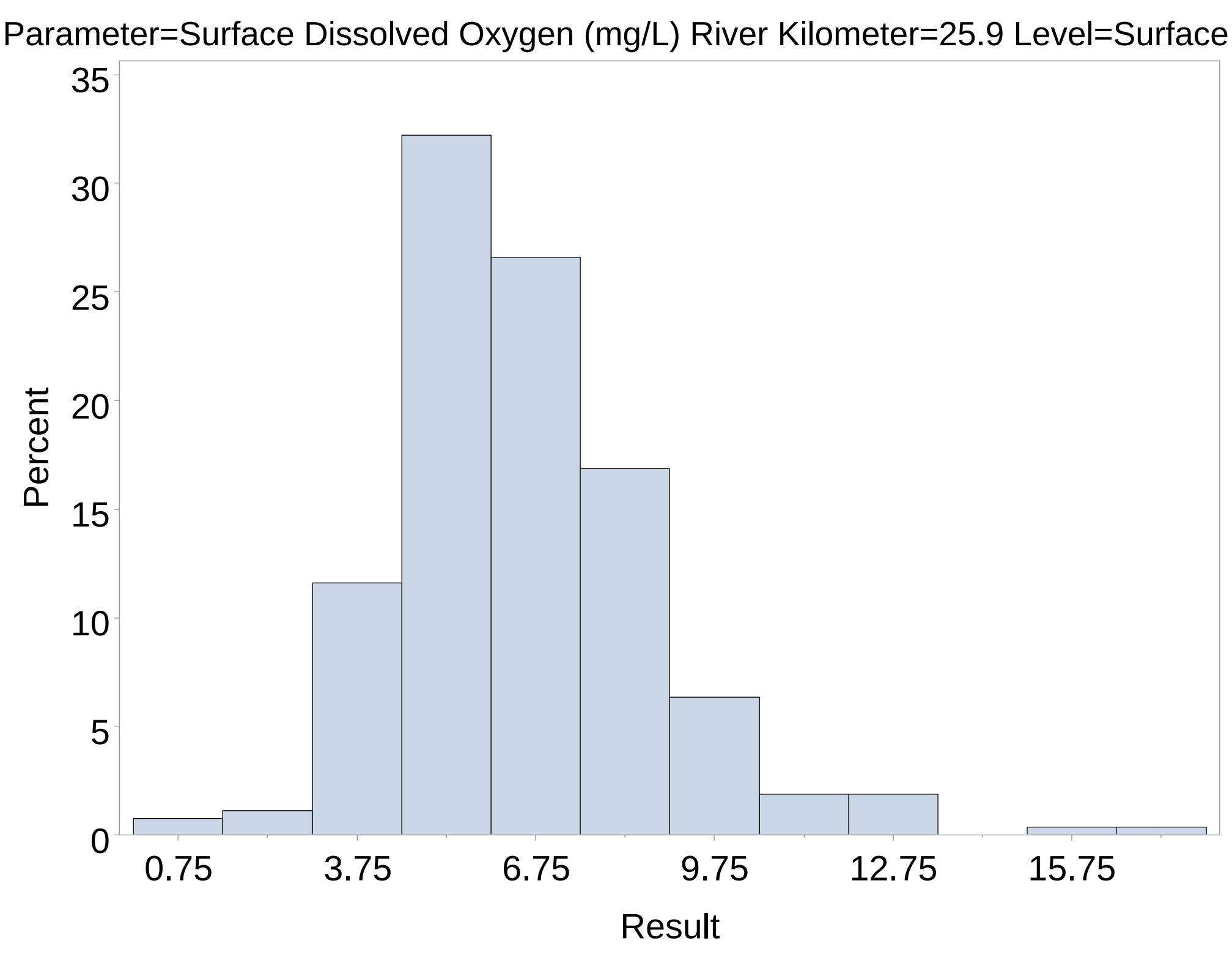
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.3713	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.98
99%	13.41
95%	10.37
90%	9.01
75% Q3	7.65
50% Median	6.22
25% Q1	5.00
10%	4.26
5%	3.66
1%	1.84
0% Min	0.49

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=25.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.49	30697	12.52	30860
1.22	30854	13.05	30702
1.84	30745	13.41	30858
2.07	30662	15.01	30705
2.61	30698	17.98	30715


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=25.9 Level=Surface
Percent
35
30
25
20
15
10
5
0
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=29.5 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.72932836	**Sum Observations**	1803.46
Std Deviation	2.16878077	**Variance**	4.70361003
Skewness	0.73113996	**Kurtosis**	2.03211923
Uncorrected SS	13391.9384	**Corrected SS**	1255.86388
Coeff Variation	32.228785	**Std Error Mean**	0.13247937

Basic Statistical Measures			
Location		**Variability**	
Mean	6.729328	**Std Deviation**	2.16878
Median	6.500000	**Variance**	4.70361
Mode	5.220000	**Range**	16.04000
		Interquartile Range	2.86000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

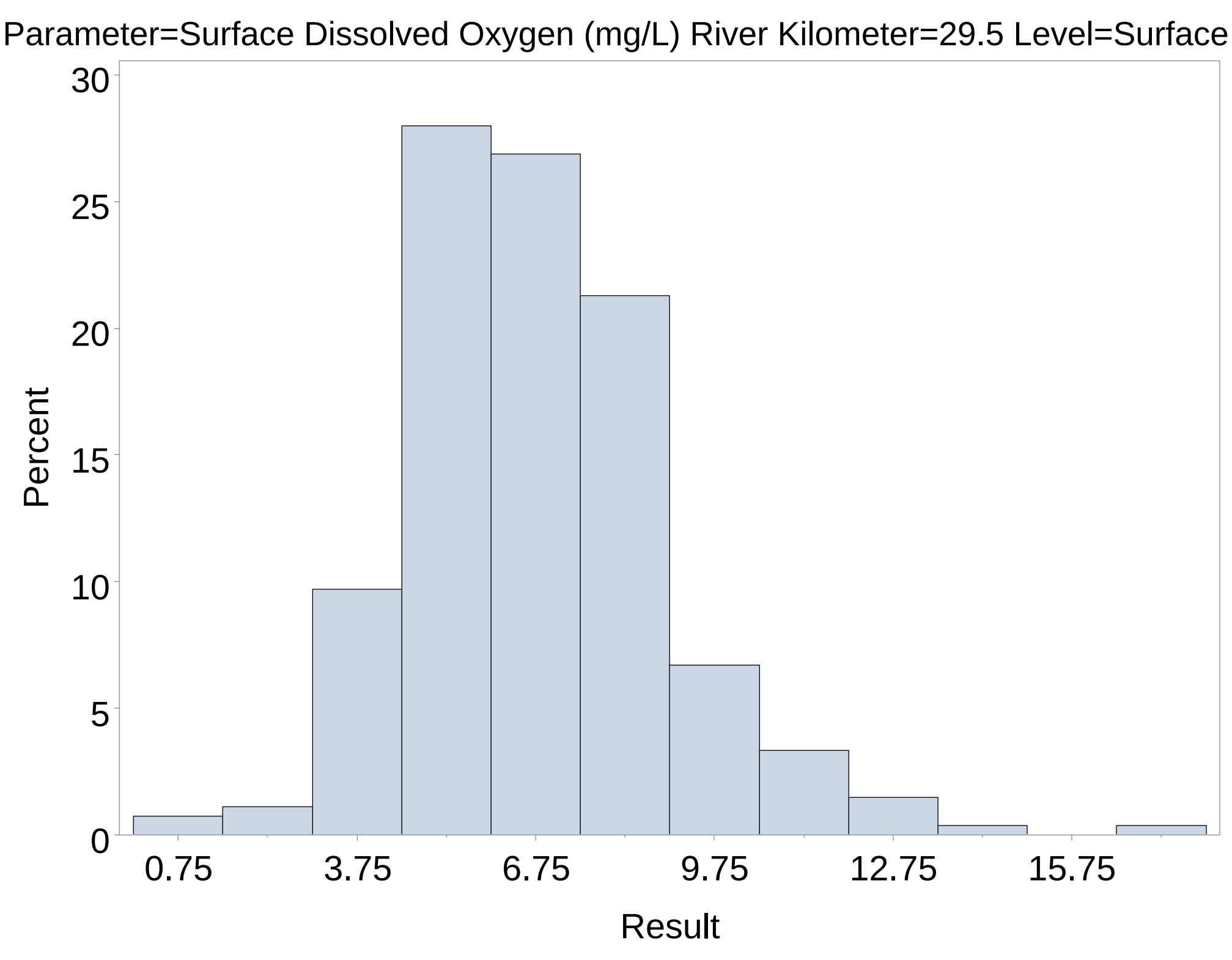
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.79529	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.66
99%	13.16
95%	10.59
90%	9.30
75% Q3	8.08
50% Median	6.50
25% Q1	5.22
10%	4.40
5%	3.71
1%	1.68
0% Min	0.62

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=29.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.62	30965	12.42	30969
1.04	31122	12.46	30994
1.68	31013	13.16	30970
2.12	30930	14.67	30973
2.95	31098	16.66	30983


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=29.5 Level=Surface
30
25
20
15
10
5
0
Percent
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	314	**Sum Weights**	314
Mean	6.80719745	**Sum Observations**	2137.46
Std Deviation	2.08109376	**Variance**	4.33095123
Skewness	0.69247982	**Kurtosis**	2.43451576
Uncorrected SS	15905.7	**Corrected SS**	1355.58773
Coeff Variation	30.5719611	**Std Error Mean**	0.11744292

Basic Statistical Measures			
Location		**Variability**	
Mean	6.807197	**Std Deviation**	2.08109
Median	6.640000	**Variance**	4.33095
Mode	5.900000	**Range**	16.48000
		Interquartile Range	2.68000

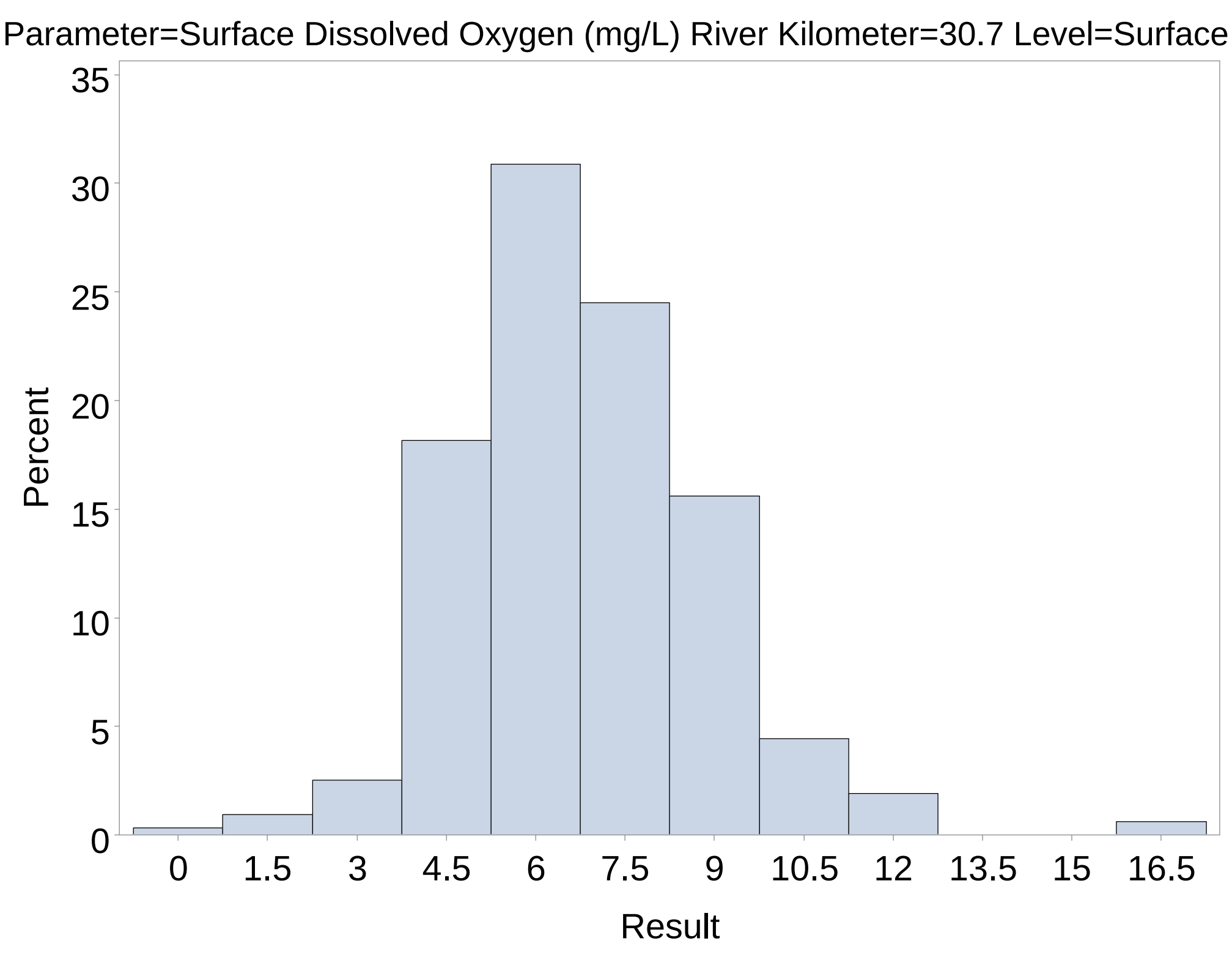
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	57.96175	**Pr > |t|**	<.0001
Sign	**M**	157	**Pr >= |M|**	<.0001
Signed Rank	**S**	24727.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.85
99%	12.20
95%	10.02
90%	9.39
75% Q3	8.10
50% Median	6.64
25% Q1	5.42
10%	4.52
5%	3.85
1%	1.98
0% Min	0.37

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.37	31279	12.04	31283
1.34	31436	12.20	31284
1.67	31327	12.27	31308
1.98	31244	15.95	31287
2.45	31280	16.85	31297


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=30.7 Level=Surface
Percent
35
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=32.3 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.03343396	**Sum Observations**	1863.86
Std Deviation	2.2011197	**Variance**	4.84492794
Skewness	0.68341284	**Kurtosis**	1.81027459
Uncorrected SS	14388.3972	**Corrected SS**	1279.06098
Coeff Variation	31.295093	**Std Error Mean**	0.13521371

Basic Statistical Measures			
Location		**Variability**	
Mean	7.033434	**Std Deviation**	2.20112
Median	6.860000	**Variance**	4.84493
Mode	4.650000	**Range**	15.65000
		Interquartile Range	2.94000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

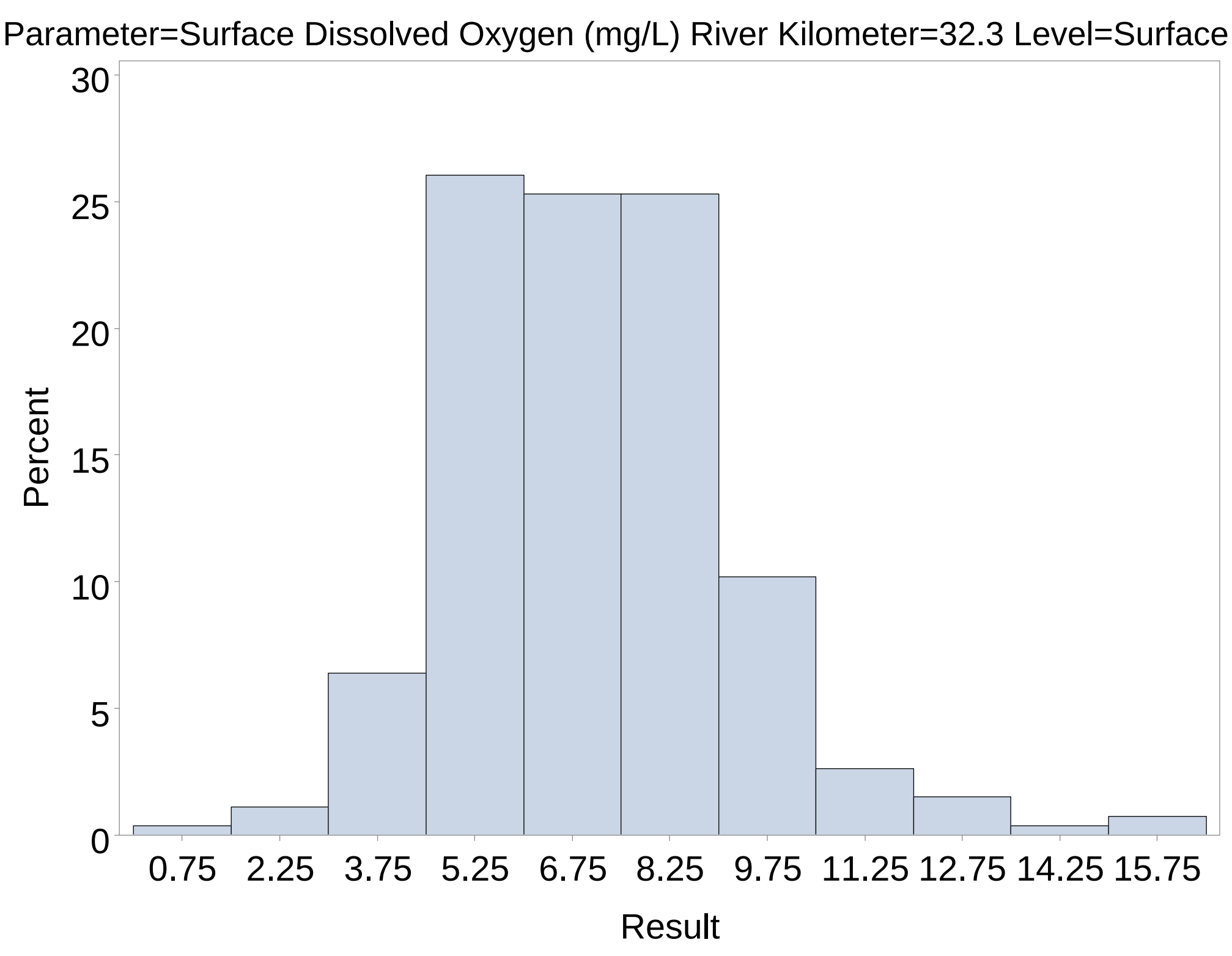
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	52.01717	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.27
99%	13.98
95%	10.56
90%	9.54
75% Q3	8.40
50% Median	6.86
25% Q1	5.46
10%	4.66
5%	3.81
1%	1.92
0% Min	0.62

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=32.3 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.62	31544	12.95	31539
1.52	31701	12.96	31573
1.92	31509	13.98	31548
2.88	31592	15.62	31552
3.15	31651	16.27	31562


Parameter=Surface Dissolved Oxygen (mg/L) River Kilometer=32.3 Level=Surface
Percent
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=-2.4 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	1.25218391	**Sum Observations**	326.82
Std Deviation	0.68702775	**Variance**	0.47200714
Skewness	1.25342185	**Kurtosis**	0.91500609
Uncorrected SS	531.9606	**Corrected SS**	122.721855
Coeff Variation	54.8663619	**Std Error Mean**	0.04252595

Basic Statistical Measures			
Location		**Variability**	
Mean	1.252184	**Std Deviation**	0.68703
Median	1.000000	**Variance**	0.47201
Mode	0.800000	**Range**	3.50000
		Interquartile Range	0.80000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	29.44517	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

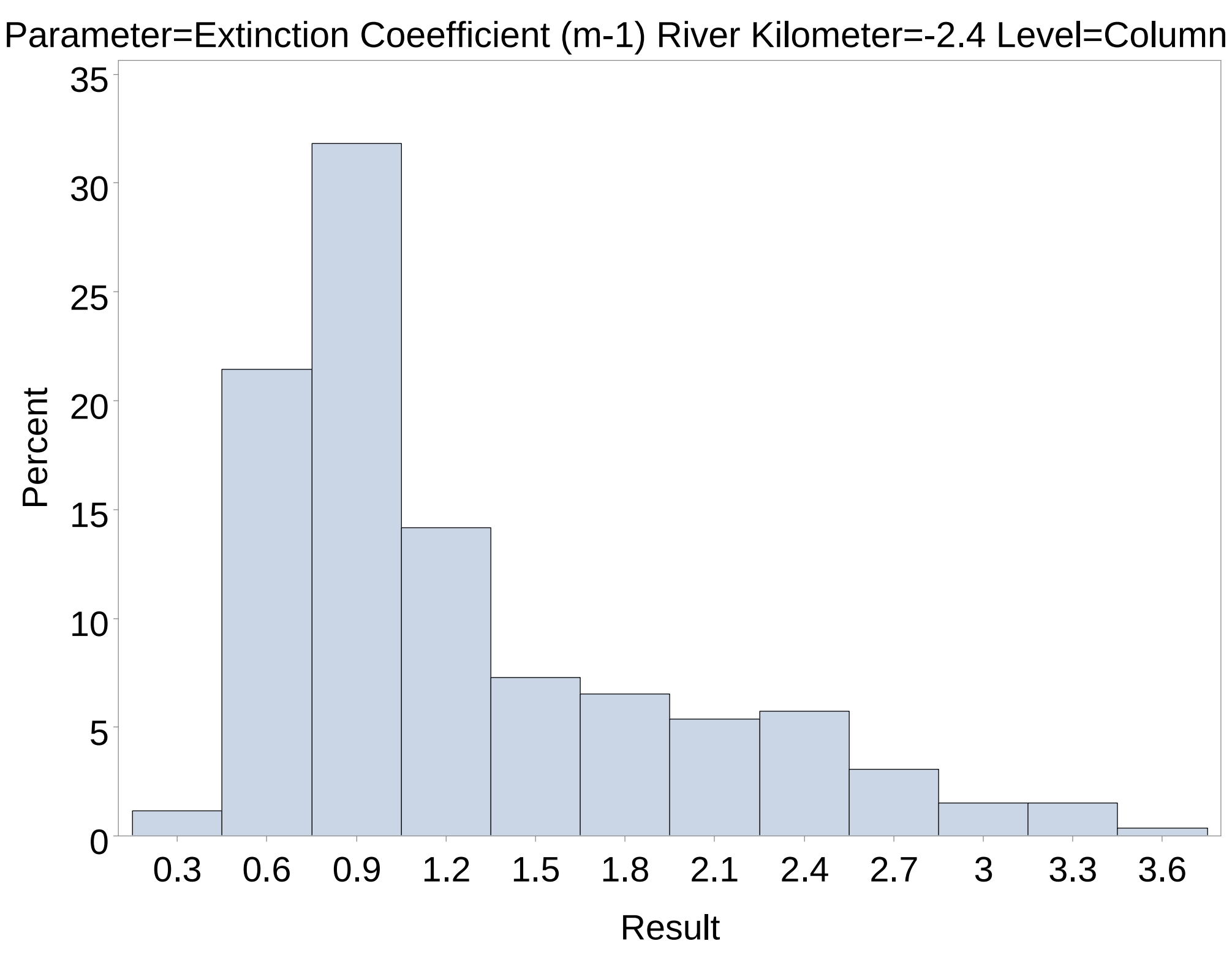
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.70
99%	3.30
95%	2.70
90%	2.30
75% Q3	1.60
50% Median	1.00
25% Q1	0.80
10%	0.60
5%	0.50
1%	0.44
0% Min	0.20

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=-2.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	31840	3.20	31795
0.40	31901	3.30	31825
0.44	31957	3.30	31914
0.47	31953	3.33	31964
0.50	31910	3.70	31734

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=-2.4 Level=Column
Percent
35
30
25
20
15
10
5
0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
3.3
3.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=6.6 Level=Column

Moments			
N	262	**Sum Weights**	262
Mean	1.7580916	**Sum Observations**	460.62
Std Deviation	0.81408493	**Variance**	0.66273428
Skewness	1.6743364	**Kurtosis**	5.98900748
Uncorrected SS	982.7858	**Corrected SS**	172.973646
Coeff Variation	46.3050349	**Std Error Mean**	0.05029434

Basic Statistical Measures			
Location		**Variability**	
Mean	1.758092	**Std Deviation**	0.81408
Median	1.600000	**Variance**	0.66273
Mode	1.400000	**Range**	6.40000
		Interquartile Range	1.09000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.95606	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

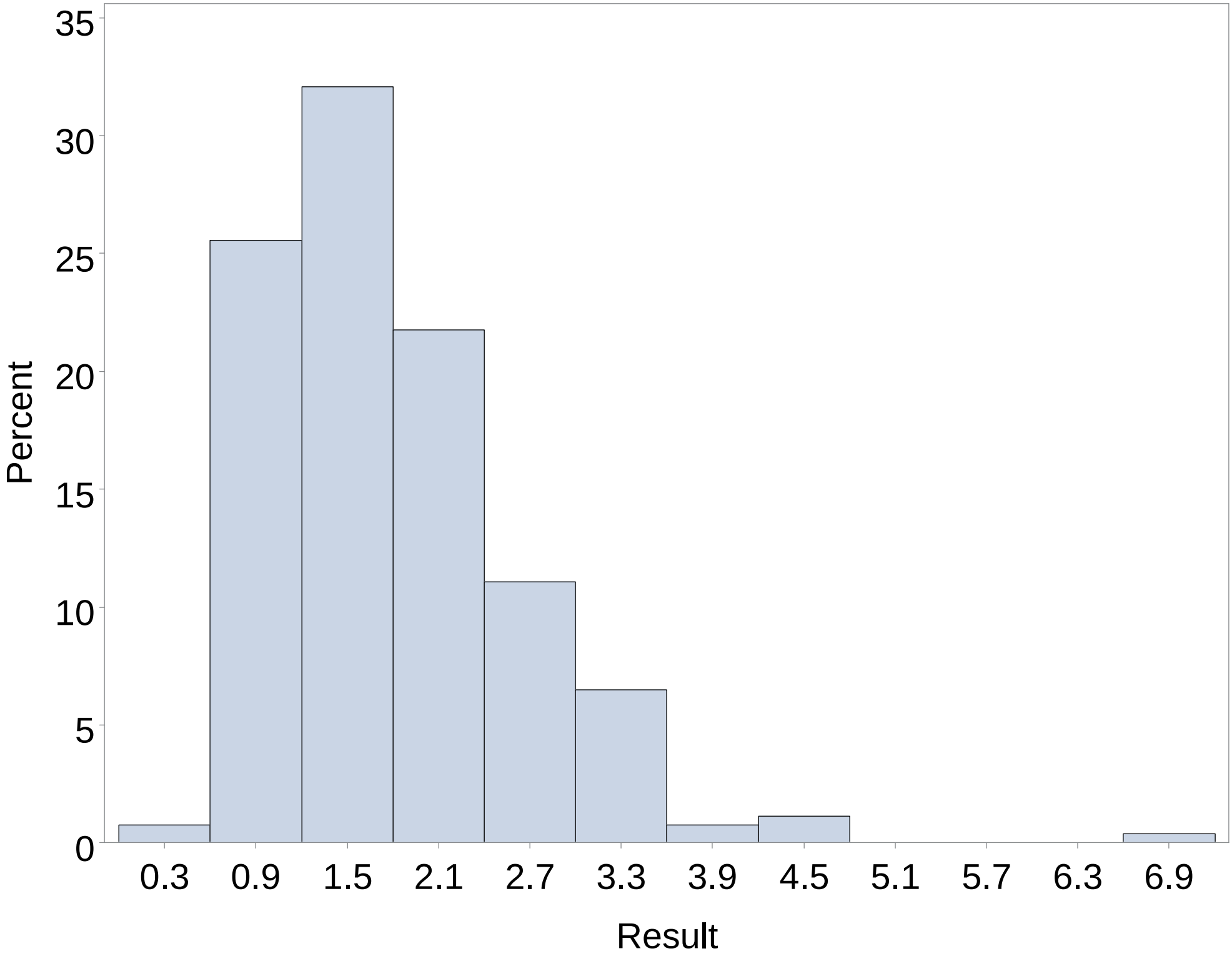
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.90
99%	4.34
95%	3.10
90%	2.80
75% Q3	2.20
50% Median	1.60
25% Q1	1.11
10%	0.90
5%	0.80
1%	0.60
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=6.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	31995	3.60	31997
0.58	32220	4.30	32003
0.60	32093	4.34	32227
0.68	32231	4.70	32177
0.70	32104	6.90	31994

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


35
30
25
20
15
10
5
0
Percent
0.3
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
5.7
6.3
6.9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=8.4 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	1.8966055	**Sum Observations**	413.46
Std Deviation	0.8108404	**Variance**	0.65746216
Skewness	0.7661004	**Kurtosis**	-0.0404411
Uncorrected SS	926.8398	**Corrected SS**	142.669288
Coeff Variation	42.7521907	**Std Error Mean**	0.05491704

Basic Statistical Measures			
Location		**Variability**	
Mean	1.896606	**Std Deviation**	0.81084
Median	1.700000	**Variance**	0.65746
Mode	1.000000	**Range**	4.07000
		Interquartile Range	1.15000

Note: The mode displayed is the smallest of 3 modes with a count of 13.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.53583	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

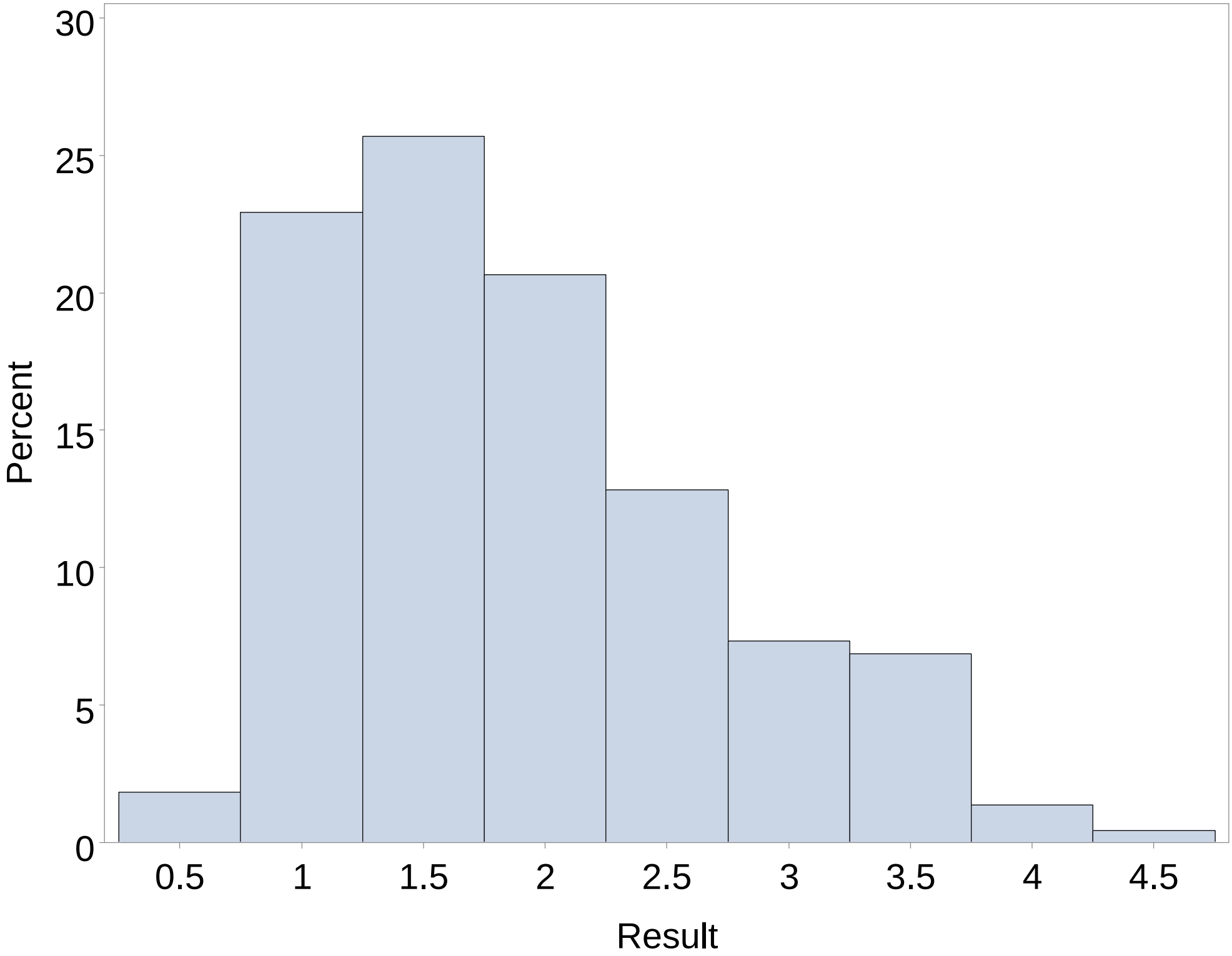
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.57
99%	3.93
95%	3.48
90%	3.10
75% Q3	2.40
50% Median	1.70
25% Q1	1.25
10%	1.00
5%	0.90
1%	0.70
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=8.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	32249	3.70	32277
0.69	32439	3.80	32376
0.70	32383	3.93	32443
0.70	32359	4.13	32421
0.79	32450	4.57	32446

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


30
25
20
15
10
5
0
Percent
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=10.5 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	1.99082569	**Sum Observations**	434
Std Deviation	0.82828525	**Variance**	0.68605646
Skewness	0.58990984	**Kurtosis**	-0.2693004
Uncorrected SS	1012.8926	**Corrected SS**	148.874251
Coeff Variation	41.6051117	**Std Error Mean**	0.05609856

Basic Statistical Measures			
Location		**Variability**	
Mean	1.990826	**Std Deviation**	0.82829
Median	1.900000	**Variance**	0.68606
Mode	1.400000	**Range**	3.96000
		Interquartile Range	1.20000

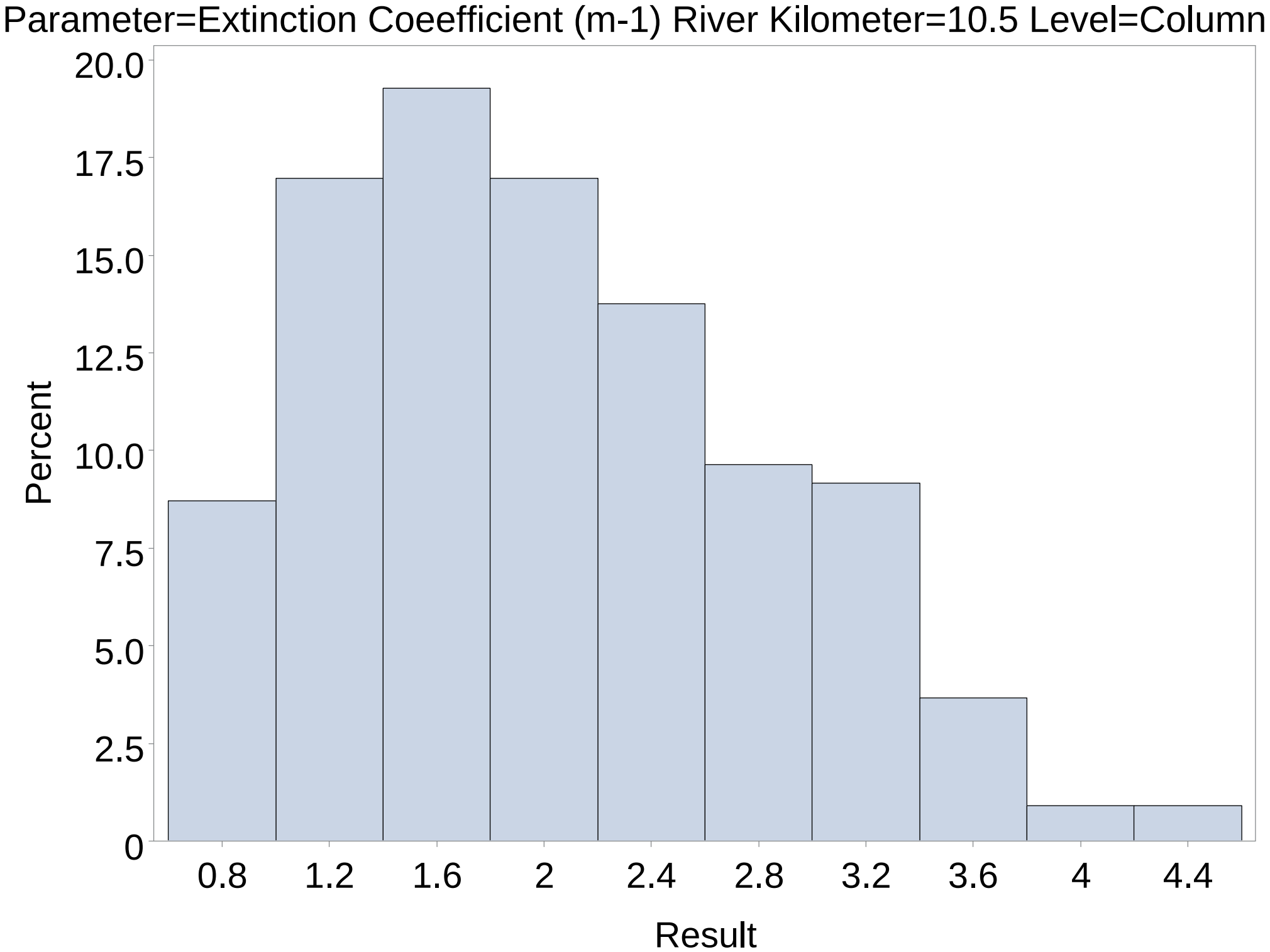
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.488	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.56
99%	3.96
95%	3.48
90%	3.20
75% Q3	2.50
50% Median	1.90
25% Q1	1.30
10%	1.00
5%	0.90
1%	0.70
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=10.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	32531	3.78	32662
0.68	32658	3.80	32475
0.70	32612	3.96	32661
0.70	32577	4.50	32512
0.70	32468	4.56	32664


Parameter=Extinction Coeefficient (m-1) River Kilometer=10.5 Level=Column
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
4.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=12.7 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	2.15293578	**Sum Observations**	469.34
Std Deviation	0.76055437	**Variance**	0.57844295
Skewness	0.40588793	**Kurtosis**	-0.4951163
Uncorrected SS	1135.981	**Corrected SS**	125.522121
Coeff Variation	35.3263846	**Std Error Mean**	0.05151124

Basic Statistical Measures			
Location		**Variability**	
Mean	2.152936	**Std Deviation**	0.76055
Median	2.100000	**Variance**	0.57844
Mode	1.200000	**Range**	3.65000
		Interquartile Range	1.20000

Note: The mode displayed is the smallest of 3 modes with a count of 11.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.79545	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

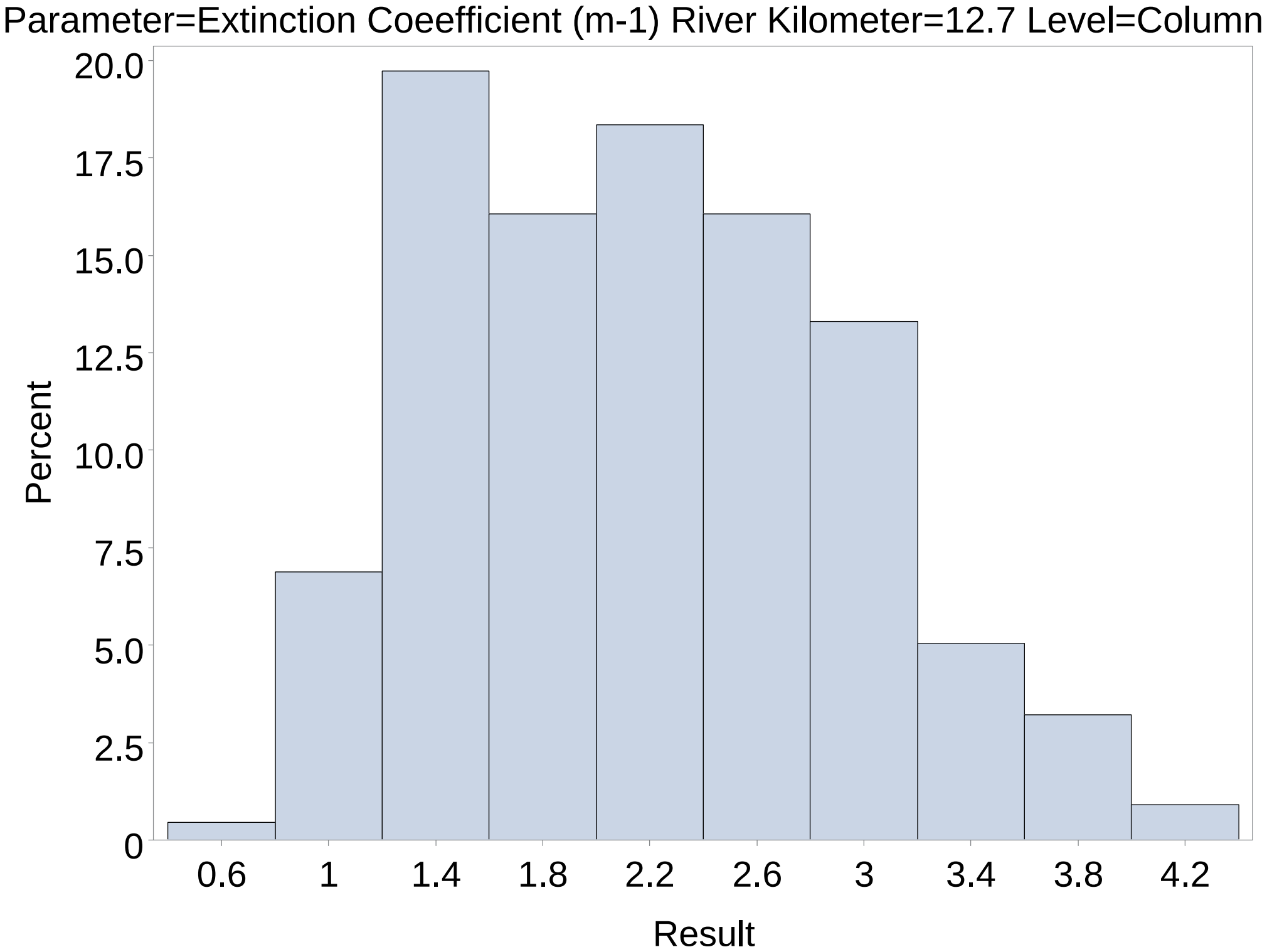
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.25
99%	3.99
95%	3.50
90%	3.12
75% Q3	2.70
50% Median	2.10
25% Q1	1.50
10%	1.20
5%	1.10
1%	0.84
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=12.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	32686	3.88	32892
0.80	32749	3.90	32730
0.84	32877	3.99	32883
0.90	32820	4.11	32884
0.90	32760	4.25	32880

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=12.7 Level=Column
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
4.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=12.8 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	2.15013761	**Sum Observations**	468.73
Std Deviation	0.86233072	**Variance**	0.74361427
Skewness	0.62625353	**Kurtosis**	0.1130042
Uncorrected SS	1169.1983	**Corrected SS**	161.364296
Coeff Variation	40.1058384	**Std Error Mean**	0.05840441

Basic Statistical Measures			
Location		**Variability**	
Mean	2.150138	**Std Deviation**	0.86233
Median	2.000000	**Variance**	0.74361
Mode	1.500000	**Range**	4.63000
		Interquartile Range	1.30000

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**	36.81465	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

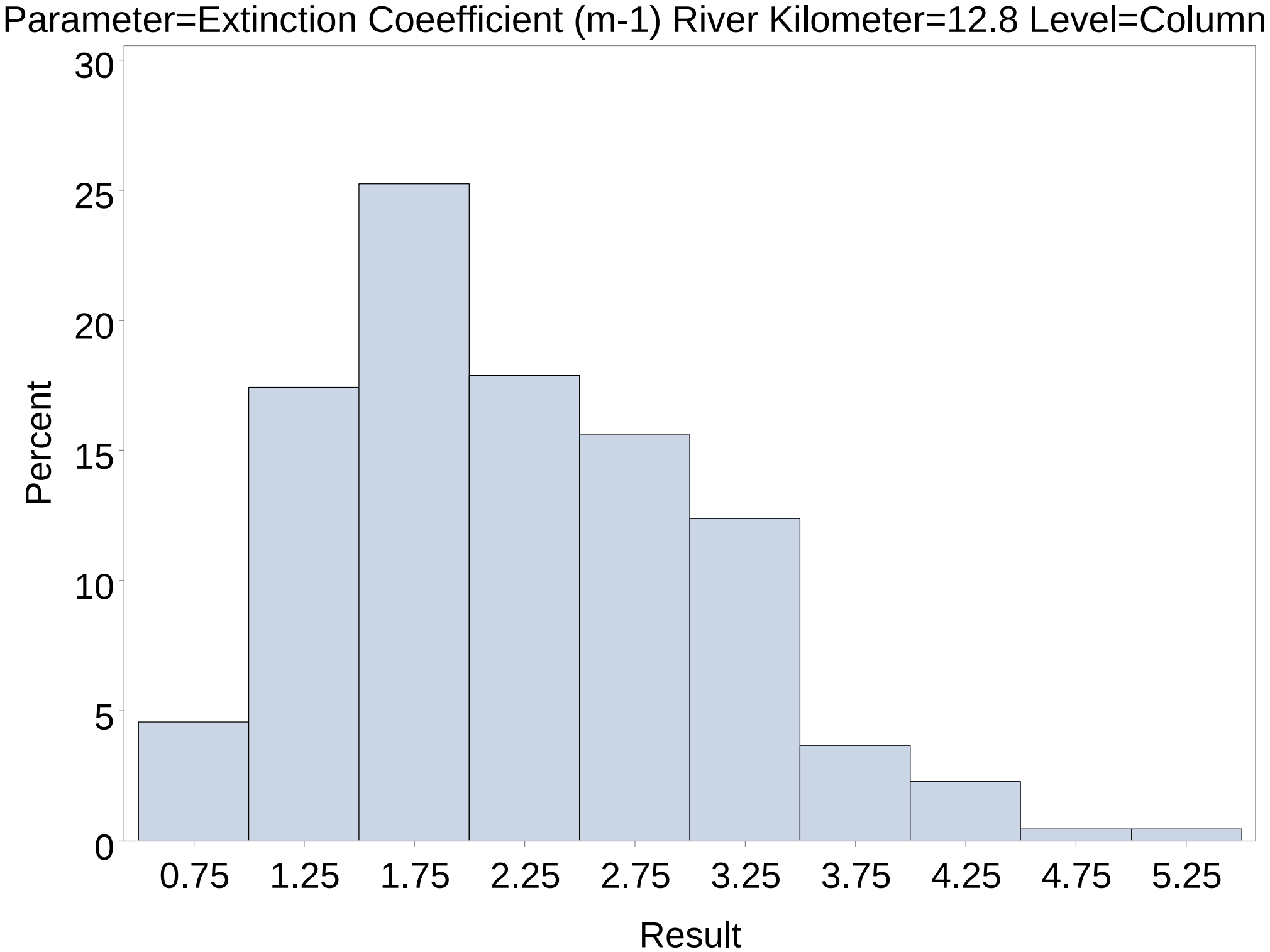
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.23
99%	4.45
95%	3.68
90%	3.30
75% Q3	2.80
50% Median	2.00
25% Q1	1.50
10%	1.10
5%	1.00
1%	0.80
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=12.8 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	32905	4.19	33113
0.6	32904	4.20	32947
0.8	32968	4.45	33102
0.8	32967	4.67	33099
0.8	32903	5.23	33090

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=12.8 Level=Column
30
25
20
15
10
5
0
Percent
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
5.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=15.5 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	2.24616858	**Sum Observations**	586.25
Std Deviation	0.88380116	**Variance**	0.78110449
Skewness	0.56492594	**Kurtosis**	-0.2480916
Uncorrected SS	1519.9035	**Corrected SS**	203.087169
Coeff Variation	39.3470539	**Std Error Mean**	0.05470592

Basic Statistical Measures			
Location		**Variability**	
Mean	2.246169	**Std Deviation**	0.88380
Median	2.100000	**Variance**	0.78110
Mode	1.400000	**Range**	4.28000
		Interquartile Range	1.33000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.05897	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

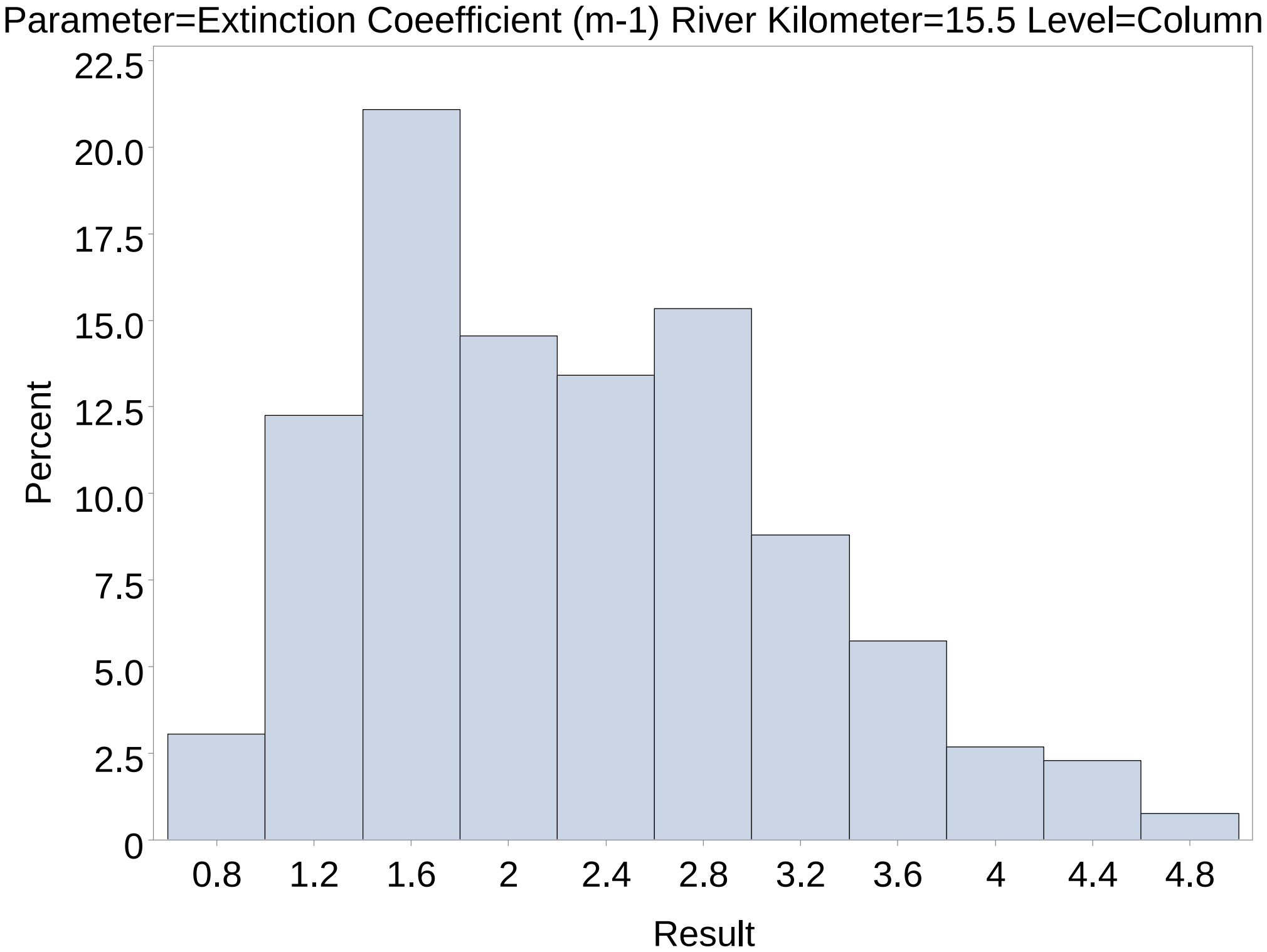
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.88
99%	4.56
95%	3.80
90%	3.50
75% Q3	2.83
50% Median	2.10
25% Q1	1.50
10%	1.20
5%	1.10
1%	0.79
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=15.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	33242	4.40	33141
0.60	33169	4.40	33211
0.79	33359	4.56	33363
0.80	33243	4.84	33376
0.80	33134	4.88	33362

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=15.5 Level=Column
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
4.4
4.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=17.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	2.22898148	**Sum Observations**	481.46
Std Deviation	0.81031483	**Variance**	0.65661012
Skewness	0.42271783	**Kurtosis**	-0.3585281
Uncorrected SS	1214.3366	**Corrected SS**	141.171176
Coeff Variation	36.3535918	**Std Error Mean**	0.05513494

Basic Statistical Measures			
Location		**Variability**	
Mean	2.228981	**Std Deviation**	0.81031
Median	2.200000	**Variance**	0.65661
Mode	1.400000	**Range**	4.42000
		Interquartile Range	1.30000

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**	40.42775	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

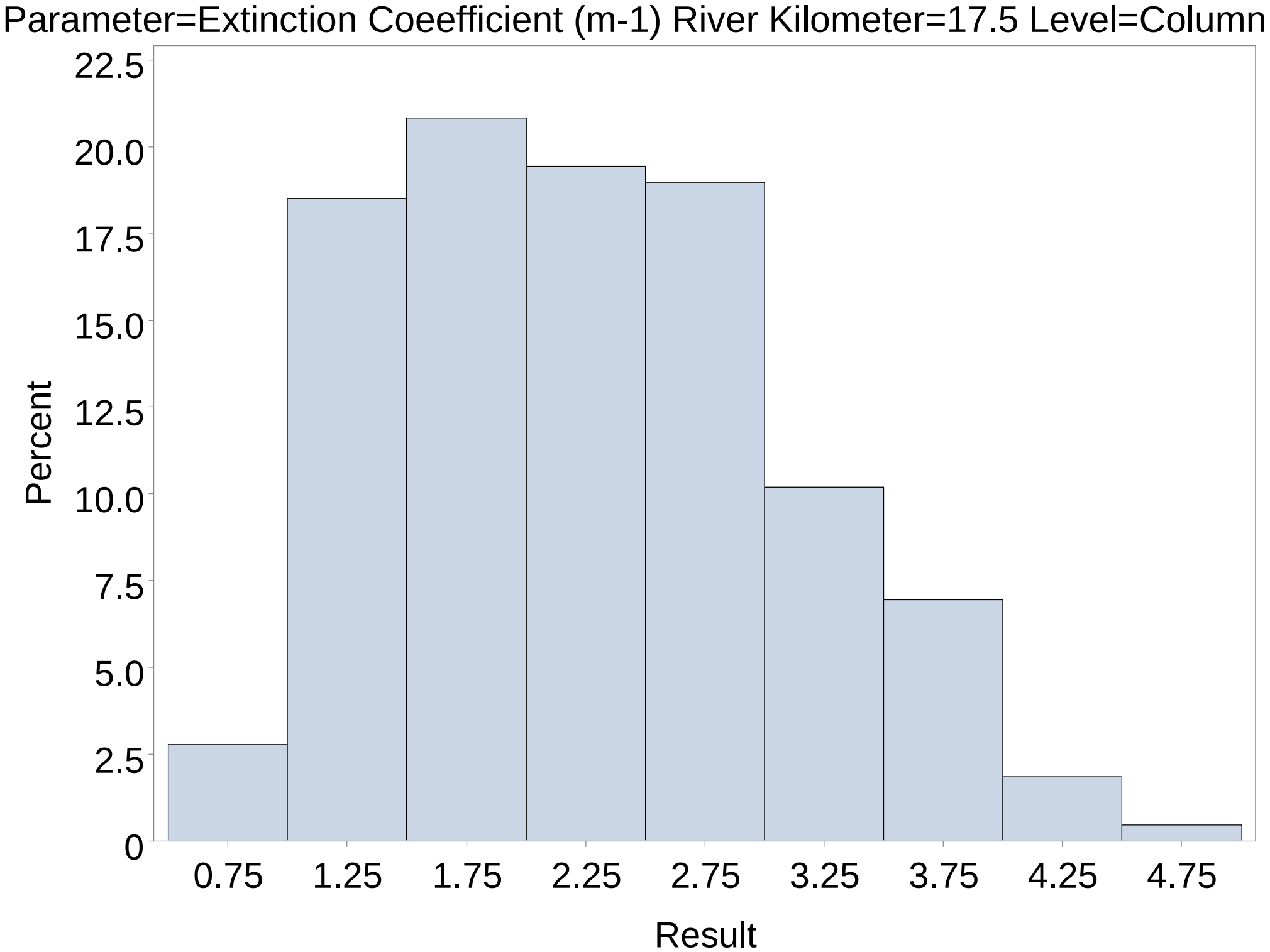
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.92
99%	4.12
95%	3.64
90%	3.30
75% Q3	2.80
50% Median	2.20
25% Q1	1.50
10%	1.30
5%	1.10
1%	0.90
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=17.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	33530	4.00	33532
0.9	33544	4.08	33580
0.9	33460	4.12	33582
0.9	33450	4.21	33588
0.9	33388	4.92	33579

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=17.5 Level=Column
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=20.1 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	2.31767442	**Sum Observations**	498.3
Std Deviation	0.80886744	**Variance**	0.65426653
Skewness	0.51626758	**Kurtosis**	0.21180919
Uncorrected SS	1294.9102	**Corrected SS**	140.013037
Coeff Variation	34.8999596	**Std Error Mean**	0.0551643

Basic Statistical Measures			
Location		**Variability**	
Mean	2.317674	**Std Deviation**	0.80887
Median	2.300000	**Variance**	0.65427
Mode	1.400000	**Range**	4.51000
		Interquartile Range	1.20000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.01403	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

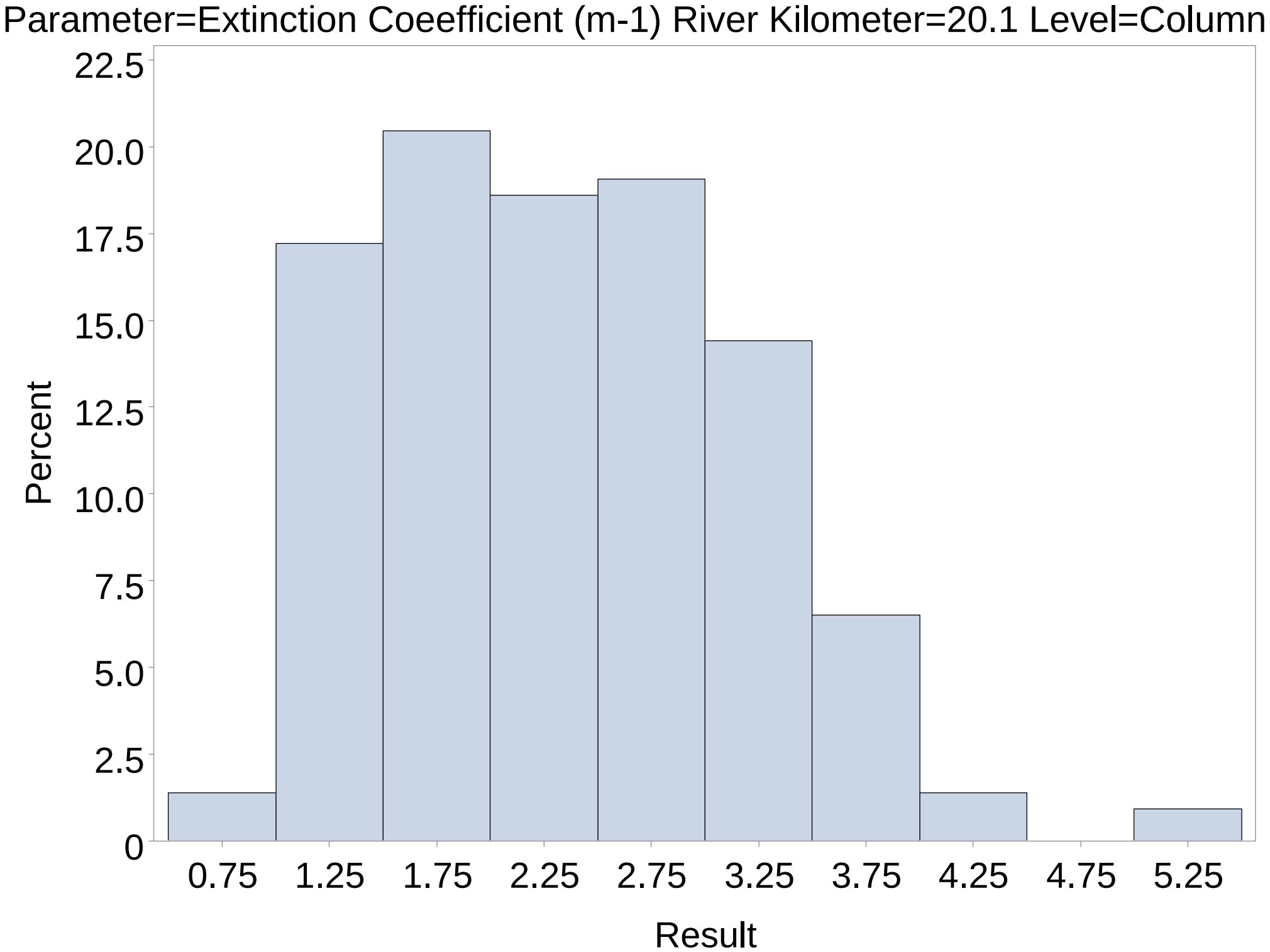
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.21
99%	4.24
95%	3.69
90%	3.33
75% Q3	2.90
50% Median	2.30
25% Q1	1.70
10%	1.30
5%	1.20
1%	0.90
0% Min	0.70

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=20.1 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	33604	4.00	33609
0.8	33746	4.02	33804
0.9	33677	4.24	33798
1.1	33760	5.09	33786
1.1	33699	5.21	33795

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=20.1 Level=Column
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
5.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=21.9 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	2.34967442	**Sum Observations**	505.18
Std Deviation	0.78560911	**Variance**	0.61718167
Skewness	0.88793706	**Kurtosis**	1.58111169
Uncorrected SS	1319.0854	**Corrected SS**	132.076877
Coeff Variation	33.434807	**Std Error Mean**	0.0535781

Basic Statistical Measures			
Location		**Variability**	
Mean	2.349674	**Std Deviation**	0.78561
Median	2.200000	**Variance**	0.61718
Mode	2.800000	**Range**	5.10000
		Interquartile Range	1.03000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	43.85513	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

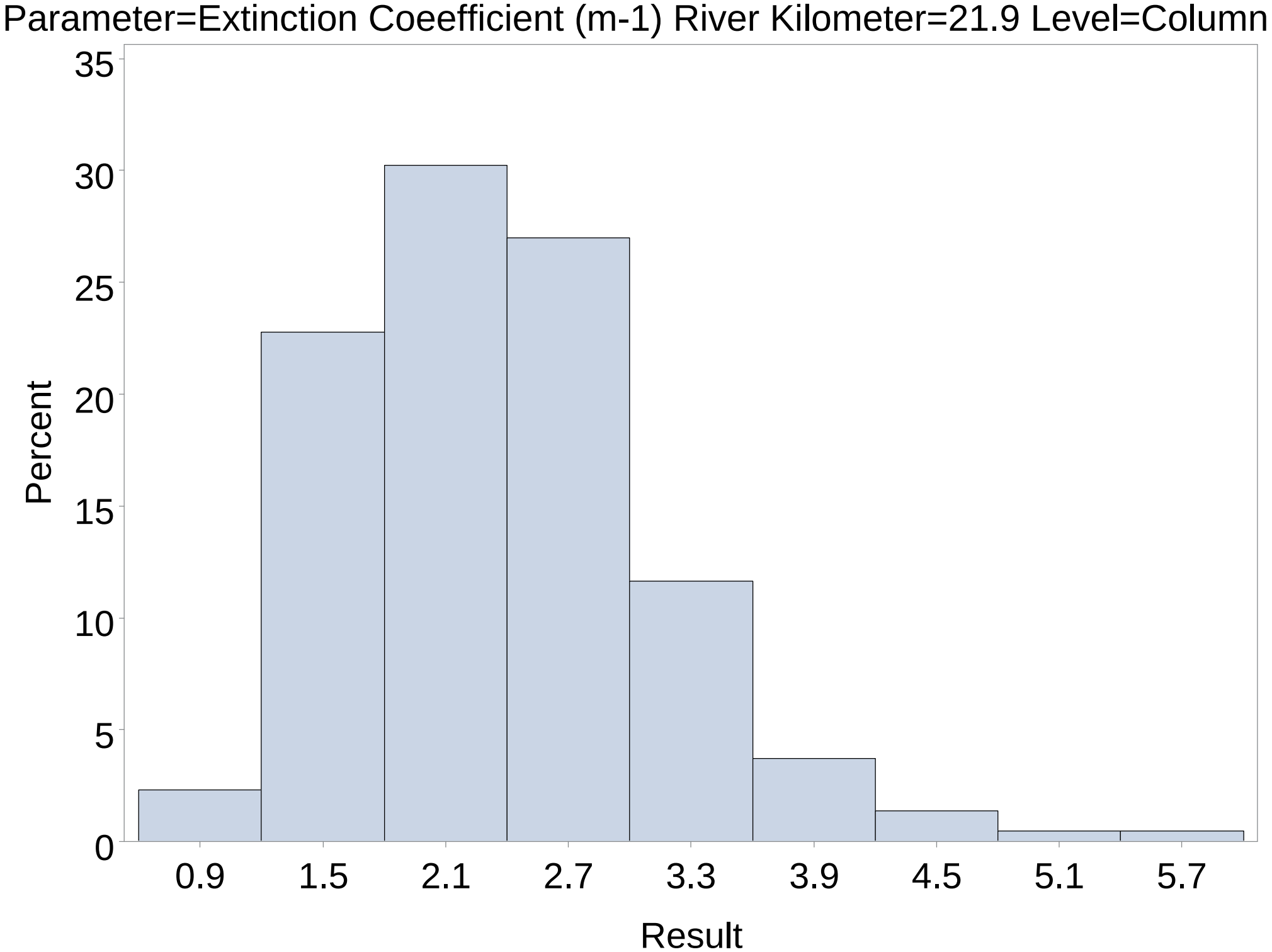
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.70
99%	4.68
95%	3.70
90%	3.30
75% Q3	2.80
50% Median	2.20
25% Q1	1.77
10%	1.50
5%	1.39
1%	1.00
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=21.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	33977	4.20	33980
0.80	33973	4.50	33861
1.00	33961	4.68	34021
1.00	33957	5.15	34012
1.15	34009	5.70	33978

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.92	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=21.9 Level=Column
Percent
35
30
25
20
15
10
5
0
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
5.7
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=23.6 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	2.34547893	**Sum Observations**	612.17
Std Deviation	0.83754831	**Variance**	0.70148717
Skewness	0.74367192	**Kurtosis**	0.78951514
Uncorrected SS	1618.2185	**Corrected SS**	182.386665
Coeff Variation	35.7090529	**Std Error Mean**	0.05184294

Basic Statistical Measures			
Location		**Variability**	
Mean	2.345479	**Std Deviation**	0.83755
Median	2.200000	**Variance**	0.70149
Mode	1.500000	**Range**	4.65000
		Interquartile Range	1.16000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.24201	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

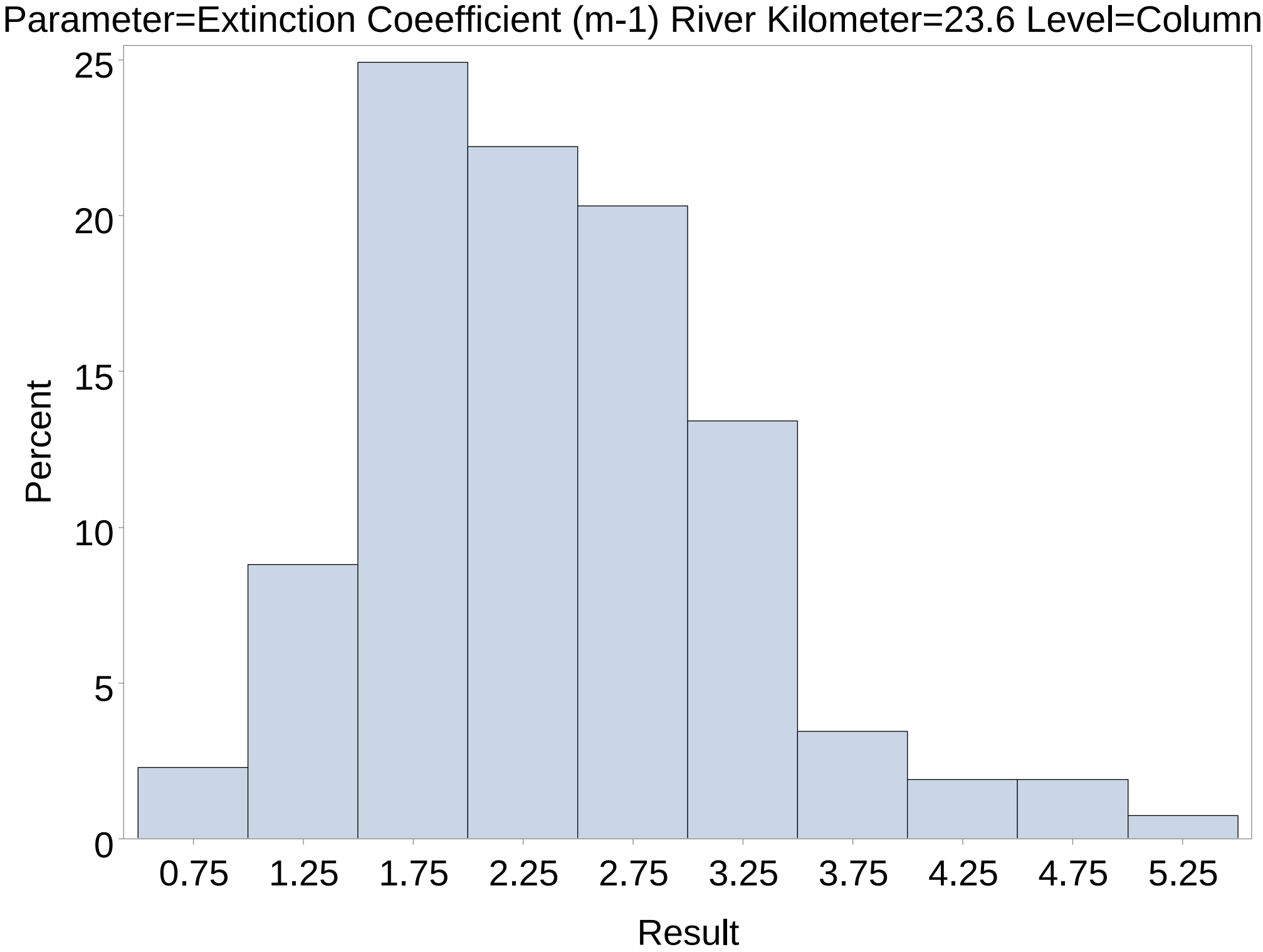
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.25
99%	4.81
95%	3.80
90%	3.38
75% Q3	2.90
50% Median	2.20
25% Q1	1.74
10%	1.40
5%	1.20
1%	0.60
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=23.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	34225	4.70	34040
0.6	34082	4.70	34054
0.6	34046	4.81	34253
0.9	34092	5.20	34045
0.9	34074	5.25	34274

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=23.6 Level=Column
Percent
25
20
15
10
5
0
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
5.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=24.7 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	2.33556075	**Sum Observations**	499.81
Std Deviation	0.74550132	**Variance**	0.55577222
Skewness	0.59774603	**Kurtosis**	0.42446303
Uncorrected SS	1285.7161	**Corrected SS**	118.379483
Coeff Variation	31.919586	**Std Error Mean**	0.05096142

Basic Statistical Measures			
Location		**Variability**	
Mean	2.335561	**Std Deviation**	0.74550
Median	2.200000	**Variance**	0.55577
Mode	2.700000	**Range**	4.55000
		Interquartile Range	1.00000

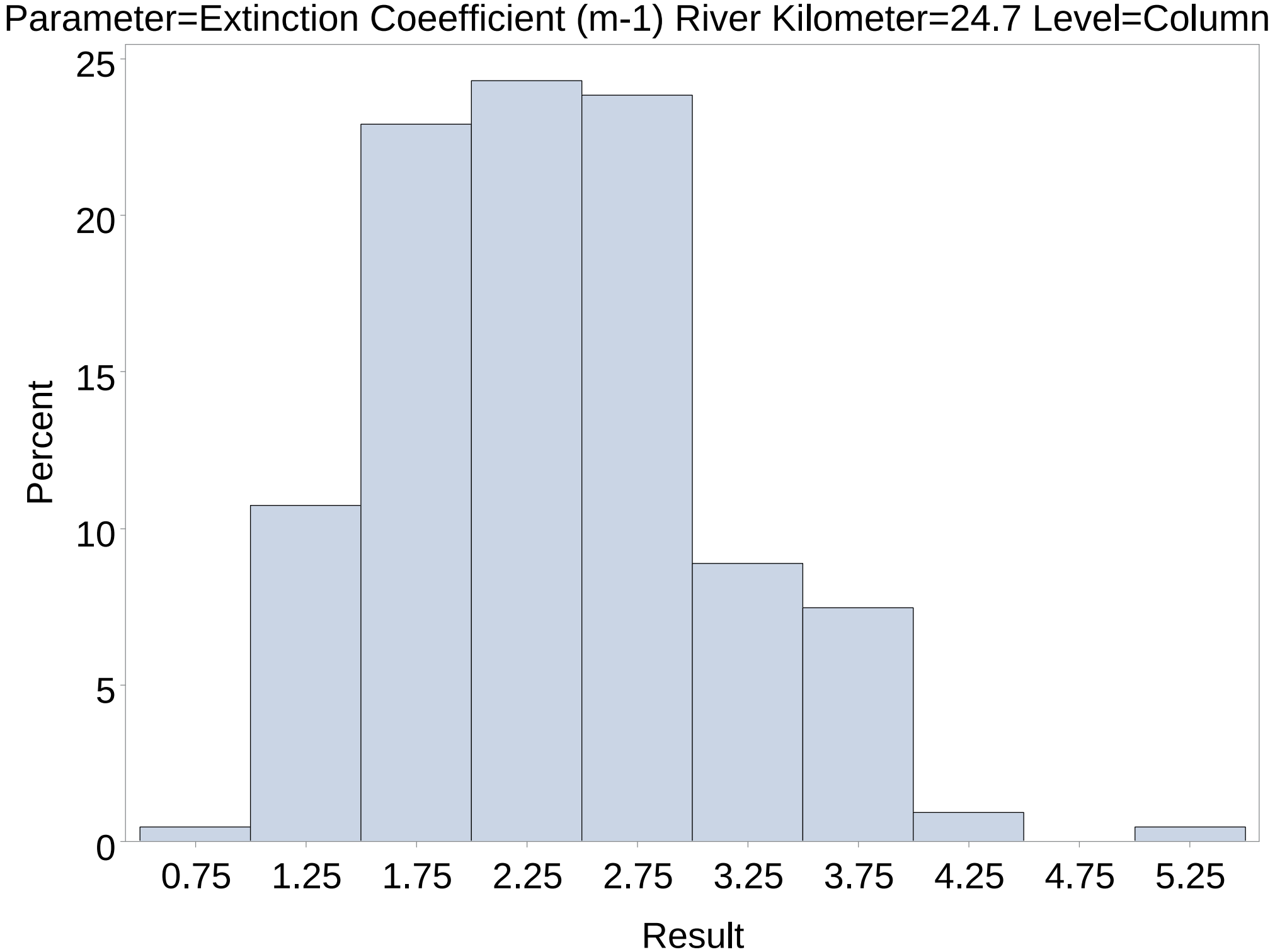
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.82998	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.35
99%	4.10
95%	3.70
90%	3.37
75% Q3	2.80
50% Median	2.20
25% Q1	1.80
10%	1.40
5%	1.30
1%	1.00
0% Min	0.80

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=24.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.8	34299	3.82	34490
1.0	34454	3.90	34433
1.0	34369	4.10	34333
1.1	34450	4.32	34492
1.1	34370	5.35	34489


Parameter=Extinction Coeefficient (m-1) River Kilometer=24.7 Level=Column
25
20
15
10
5
0
Percent
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
5.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=25.9 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	2.39028037	**Sum Observations**	511.52
Std Deviation	0.79313422	**Variance**	0.62906189
Skewness	0.53949091	**Kurtosis**	0.04170428
Uncorrected SS	1356.6664	**Corrected SS**	133.990183
Coeff Variation	33.1816397	**Std Error Mean**	0.05421754

Basic Statistical Measures			
Location		**Variability**	
Mean	2.390280	**Std Deviation**	0.79313
Median	2.310000	**Variance**	0.62906
Mode	1.800000	**Range**	4.36000
		Interquartile Range	1.29000

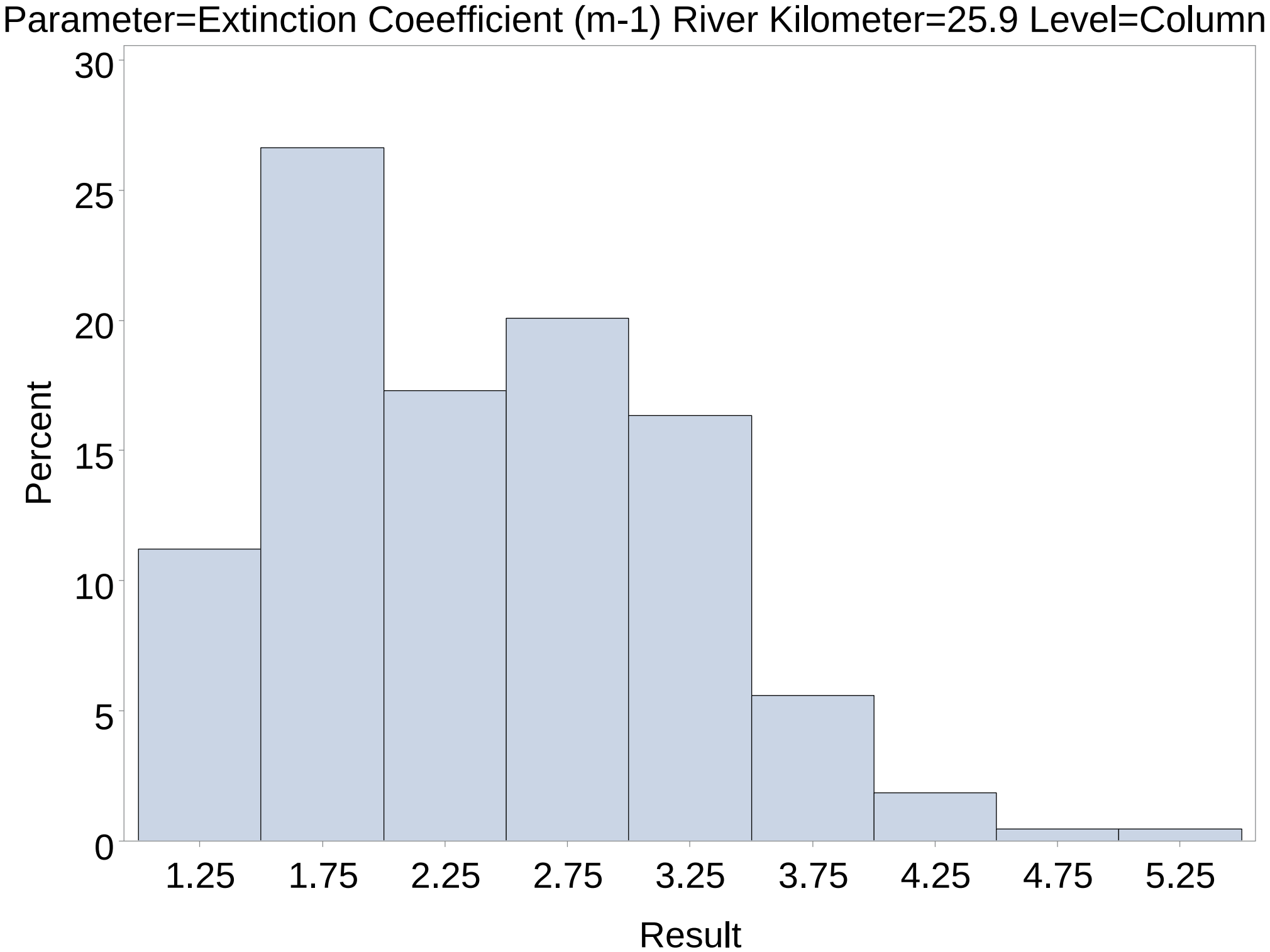
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.08685	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.36
99%	4.42
95%	3.69
90%	3.40
75% Q3	2.99
50% Median	2.31
25% Q1	1.70
10%	1.40
5%	1.30
1%	1.10
0% Min	1.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=25.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	34592	4.14	34711
1.0	34579	4.20	34517
1.1	34664	4.42	34705
1.1	34582	4.70	34559
1.2	34591	5.36	34702


Parameter=Extinction Coeefficient (m-1) River Kilometer=25.9 Level=Column
Percent
30
25
20
15
10
5
0
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
5.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=29.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	2.34467593	**Sum Observations**	506.45
Std Deviation	0.83504457	**Variance**	0.69729943
Skewness	0.45205818	**Kurtosis**	0.04720424
Uncorrected SS	1337.3805	**Corrected SS**	149.919377
Coeff Variation	35.6144983	**Std Error Mean**	0.05681759

Basic Statistical Measures			
Location		**Variability**	
Mean	2.344676	**Std Deviation**	0.83504
Median	2.300000	**Variance**	0.69730
Mode	1.700000	**Range**	4.45000
		Interquartile Range	1.20000

Note: The mode displayed is the smallest of 2 modes with a count of 11.

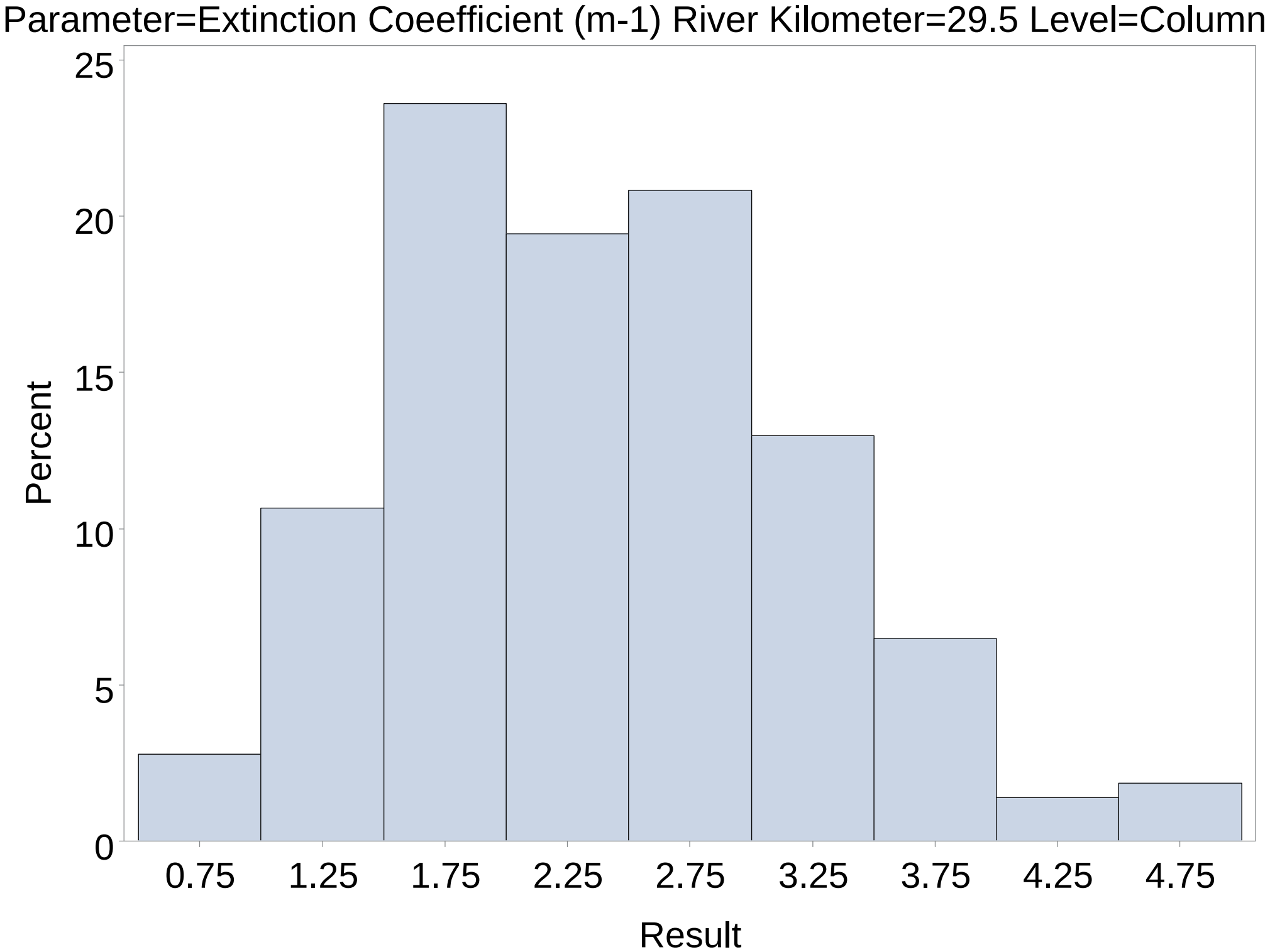
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.26673	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.95
99%	4.68
95%	3.67
90%	3.40
75% Q3	2.90
50% Median	2.30
25% Q1	1.70
10%	1.40
5%	1.10
1%	0.80
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=29.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	34872	4.40	34761
0.6	34869	4.50	34883
0.8	34727	4.68	34921
0.9	34800	4.78	34919
0.9	34799	4.95	34918


Parameter=Extinction Coeefficient (m-1) River Kilometer=29.5 Level=Column
Percent
25
20
15
10
5
0
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=30.7 Level=Column

Moments			
N	255	**Sum Weights**	255
Mean	2.37662745	**Sum Observations**	606.04
Std Deviation	0.90517519	**Variance**	0.81934212
Skewness	0.62054695	**Kurtosis**	0.29192359
Uncorrected SS	1648.4442	**Corrected SS**	208.1129
Coeff Variation	38.0865411	**Std Error Mean**	0.05668427

Basic Statistical Measures			
Location		**Variability**	
Mean	2.376627	**Std Deviation**	0.90518
Median	2.300000	**Variance**	0.81934
Mode	1.900000	**Range**	4.80000
		Interquartile Range	1.30000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.92746	**Pr > |t|**	<.0001
Sign	**M**	127.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	16320	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.20
99%	5.10
95%	3.94
90%	3.60
75% Q3	3.00
50% Median	2.30
25% Q1	1.70
10%	1.30
5%	1.20
1%	0.60
0% Min	0.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=30.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	34952	4.9	34969
0.5	35136	5.0	34945
0.6	34941	5.1	34950
0.7	35126	5.1	34959
0.9	35057	5.2	34946

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.39	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=30.7 Level=Column
30
25
20
15
10
5
0
Percent
0.3
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=32.3 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	2.30772093	**Sum Observations**	496.16
Std Deviation	0.88134504	**Variance**	0.77676908
Skewness	0.19524463	**Kurtosis**	-0.6363129
Uncorrected SS	1311.2274	**Corrected SS**	166.228583
Coeff Variation	38.1911447	**Std Error Mean**	0.06010723

Basic Statistical Measures			
Location		**Variability**	
Mean	2.307721	**Std Deviation**	0.88135
Median	2.300000	**Variance**	0.77677
Mode	1.400000	**Range**	4.37000
		Interquartile Range	1.40000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.3934	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

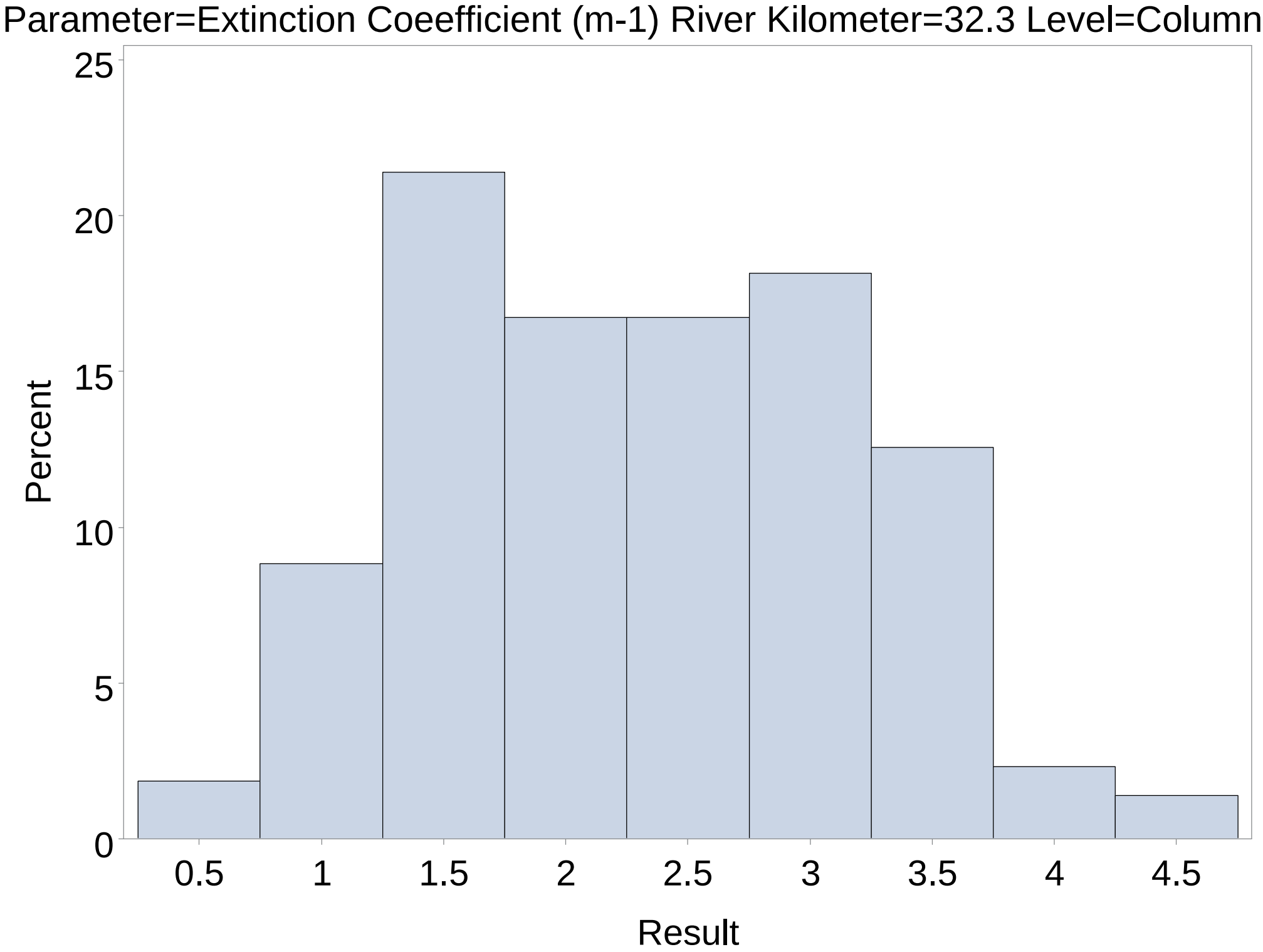
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.67
99%	4.50
95%	3.61
90%	3.50
75% Q3	3.00
50% Median	2.30
25% Q1	1.60
10%	1.20
5%	1.10
1%	0.50
0% Min	0.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Extinction Coeefficient (m-1) River Kilometer=32.3 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	35344	4.10	35233
0.4	35201	4.11	35393
0.5	35351	4.50	35320
0.7	35341	4.51	35391
0.8	35313	4.67	35390

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=Extinction Coeefficient (m-1) River Kilometer=32.3 Level=Column
Percent
25
20
15
10
5
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	220	**Sum Weights**	220
Mean	0.20554318	**Sum Observations**	45.2195
Std Deviation	0.23361067	**Variance**	0.05457394
Skewness	5.35762498	**Kurtosis**	43.2946695
Uncorrected SS	21.2462536	**Corrected SS**	11.9516936
Coeff Variation	113.655274	**Std Error Mean**	0.01575003

Basic Statistical Measures			
Location		**Variability**	
Mean	0.205543	**Std Deviation**	0.23361
Median	0.158000	**Variance**	0.05457
Mode	0.029000	**Range**	2.43600
		Interquartile Range	0.16825

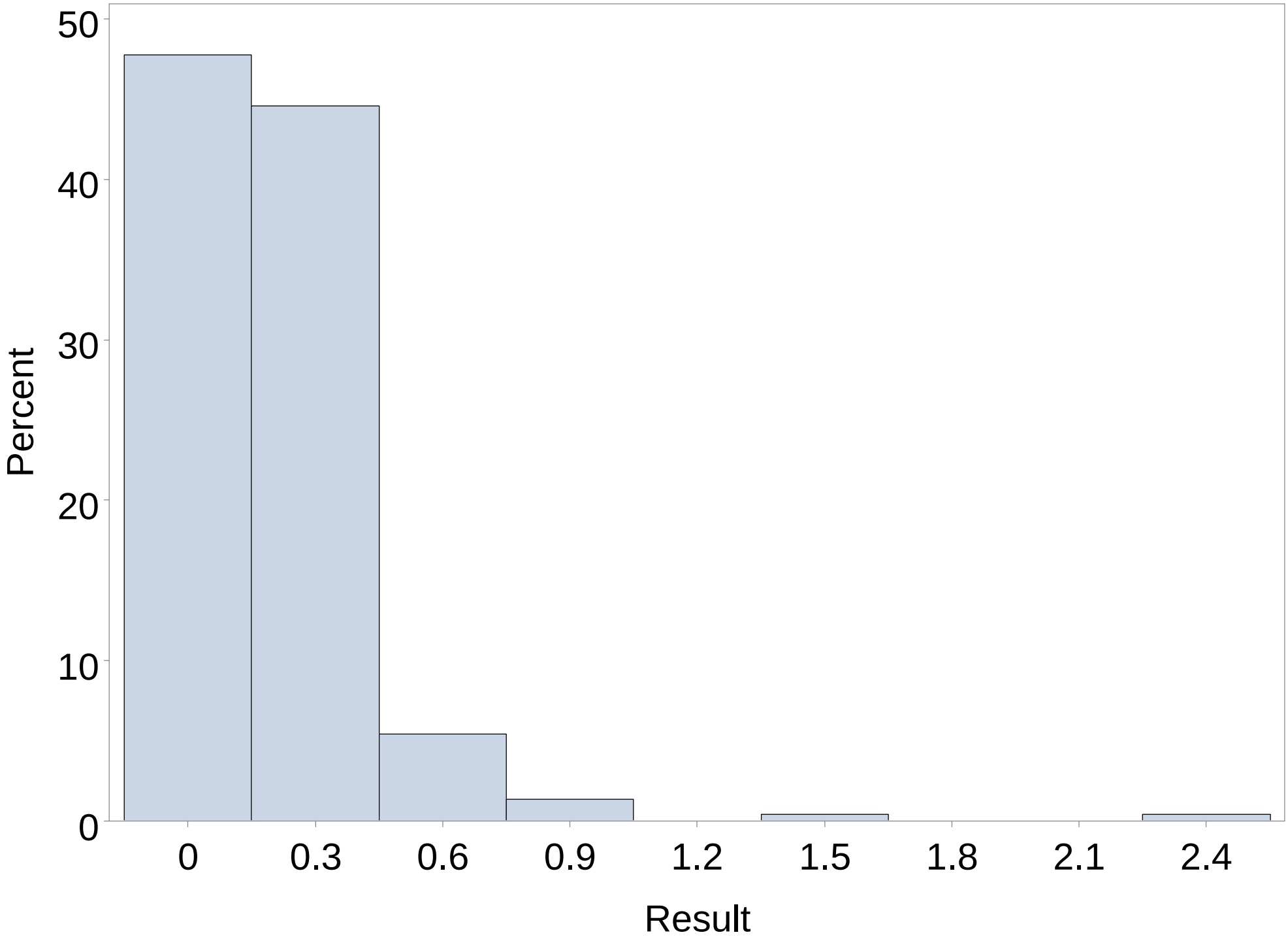
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.05034	**Pr > |t|**	<.0001
Sign	**M**	110	**Pr >= |M|**	<.0001
Signed Rank	**S**	12155	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.46500
99%	1.03000
95%	0.51850
90%	0.36900
75% Q3	0.24750
50% Median	0.15800
25% Q1	0.07925
10%	0.04230
5%	0.03190
1%	0.02900
0% Min	0.02900

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.029	35628	0.754	35457
0.029	35617	0.944	35597
0.029	35616	1.030	35581
0.029	35606	1.430	35418
0.029	35605	2.465	35455


Parameter=Iron (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
50
40
30
20
10
0
0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	219	**Sum Weights**	219
Mean	0.17091233	**Sum Observations**	37.4298
Std Deviation	0.31413825	**Variance**	0.09868284
Skewness	8.13444969	**Kurtosis**	81.9375137
Uncorrected SS	27.9100732	**Corrected SS**	21.5128589
Coeff Variation	183.800812	**Std Error Mean**	0.0212275

Basic Statistical Measures			
Location		**Variability**	
Mean	0.170912	**Std Deviation**	0.31414
Median	0.107000	**Variance**	0.09868
Mode	0.029000	**Range**	3.68800
		Interquartile Range	0.15380

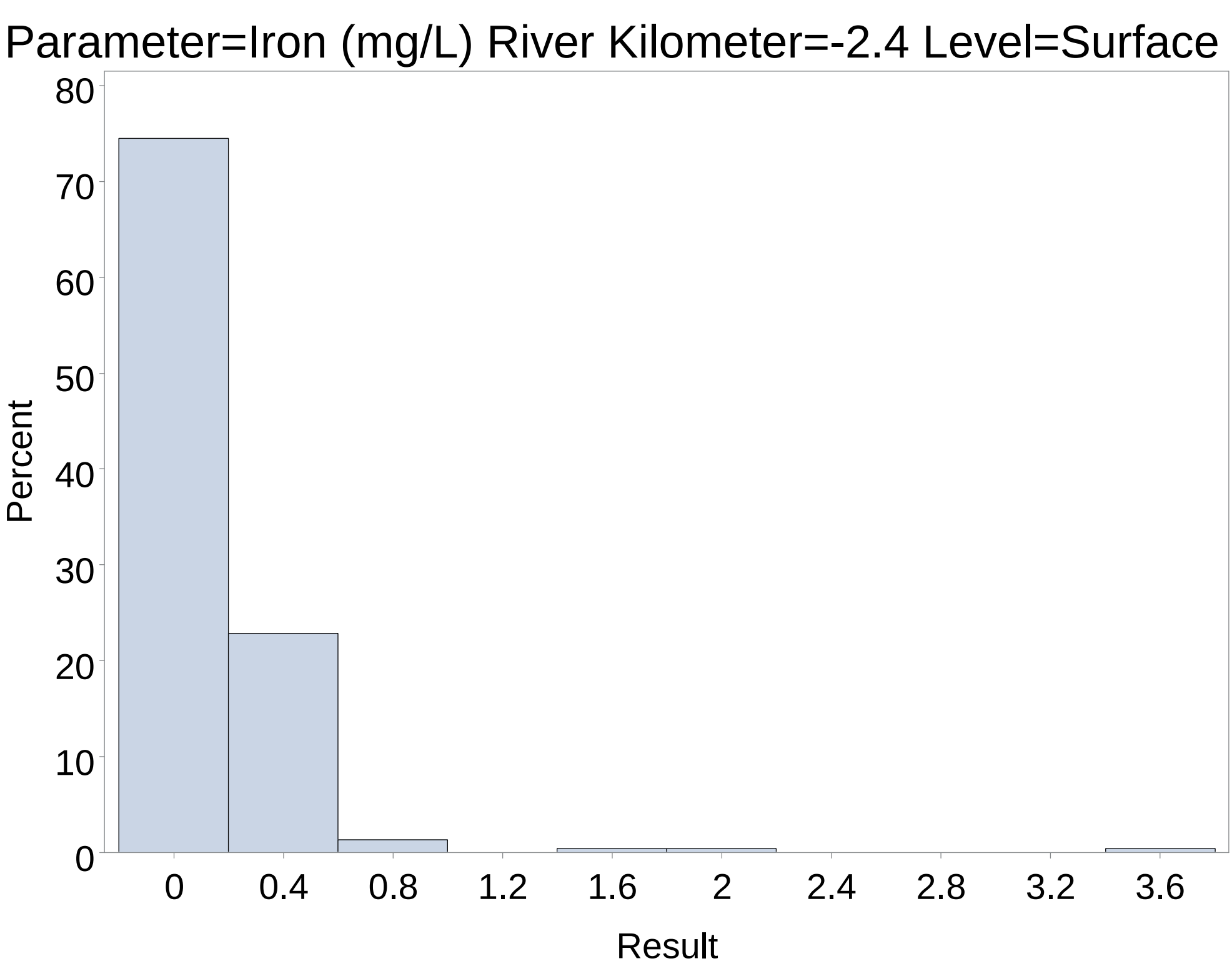
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.05146	**Pr > |t|**	<.0001
Sign	**M**	109.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12045	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.7170
99%	1.4100
95%	0.4300
90%	0.3090
75% Q3	0.2010
50% Median	0.1070
25% Q1	0.0472
10%	0.0290
5%	0.0290
1%	0.0290
0% Min	0.0290

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.029	35847	0.642	35636
0.029	35846	0.775	35677
0.029	35840	1.410	35638
0.029	35837	2.129	35675
0.029	35836	3.717	35650


Parameter=Iron (mg/L) River Kilometer=-2.4 Level=Surface
Percent
80
70
60
50
40
30
20
10
0
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	221	**Sum Weights**	221
Mean	0.45221041	**Sum Observations**	99.9385
Std Deviation	0.48156376	**Variance**	0.23190366
Skewness	3.50451426	**Kurtosis**	16.2048843
Uncorrected SS	96.2120348	**Corrected SS**	51.018805
Coeff Variation	106.491084	**Std Error Mean**	0.03239348

Basic Statistical Measures			
Location		**Variability**	
Mean	0.452210	**Std Deviation**	0.48156
Median	0.332000	**Variance**	0.23190
Mode	0.168000	**Range**	3.85100
		Interquartile Range	0.31000

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

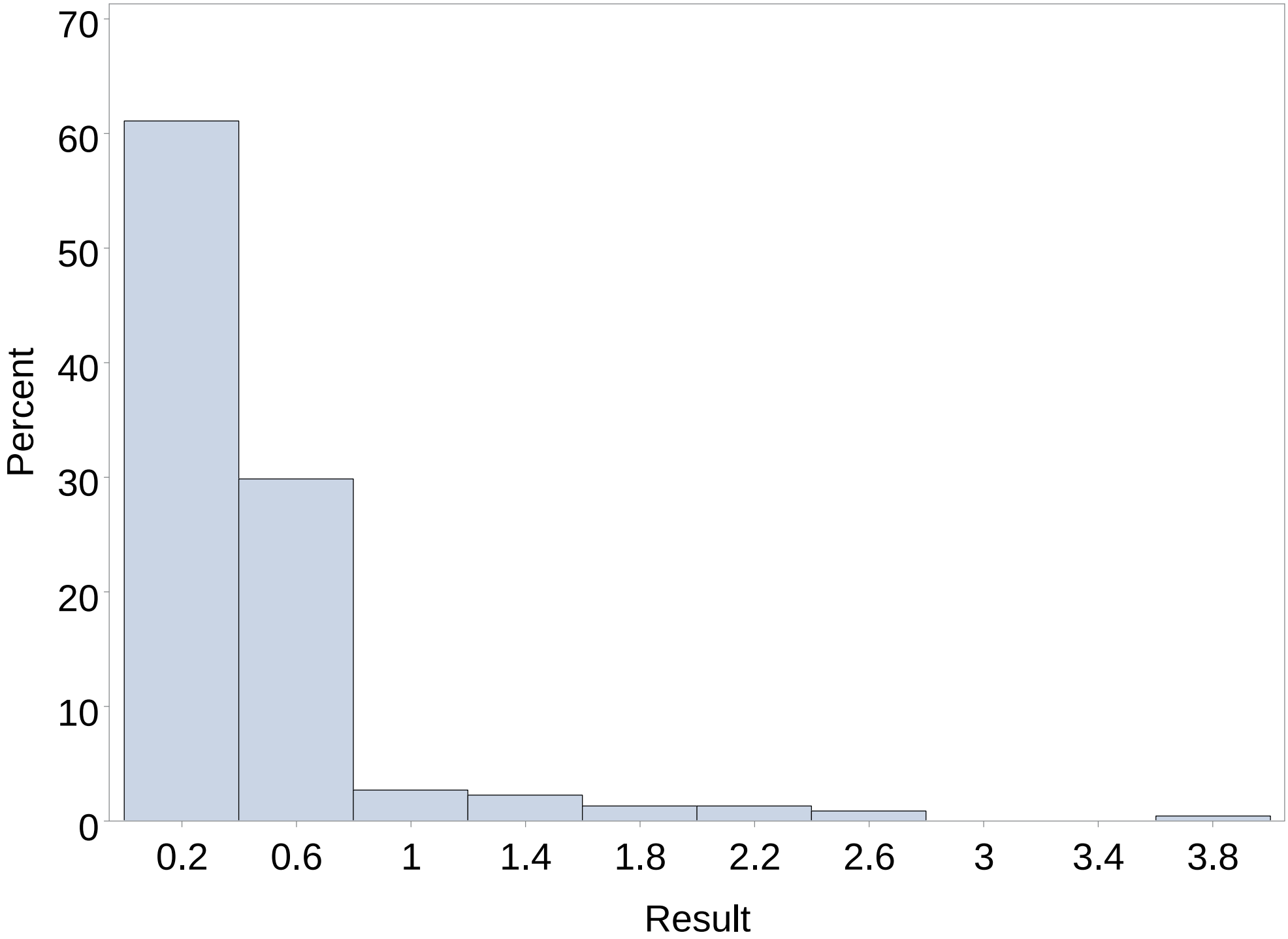
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.95992	**Pr > |t|**	<.0001
Sign	**M**	110.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12265.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.8800
99%	2.5800
95%	1.4300
90%	0.7520
75% Q3	0.5000
50% Median	0.3320
25% Q1	0.1900
10%	0.1220
5%	0.0786
1%	0.0318
0% Min	0.0290

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0290	36045	2.191	35941
0.0290	35993	2.310	36026
0.0318	36057	2.580	35939
0.0423	36001	2.585	35876
0.0554	36009	3.880	36059


Parameter=Iron (mg/L) River Kilometer=6.6 Level=Bottom
70
60
50
40
30
20
10
0
Percent
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	221	**Sum Weights**	221
Mean	0.25767195	**Sum Observations**	56.9455
Std Deviation	0.1986713	**Variance**	0.03947029
Skewness	2.15506143	**Kurtosis**	7.54788955
Uncorrected SS	23.356721	**Corrected SS**	8.68346323
Coeff Variation	77.1024197	**Std Error Mean**	0.01336408

Basic Statistical Measures			
Location		**Variability**	
Mean	0.257672	**Std Deviation**	0.19867
Median	0.214000	**Variance**	0.03947
Mode	0.187000	**Range**	1.32700
		Interquartile Range	0.21500

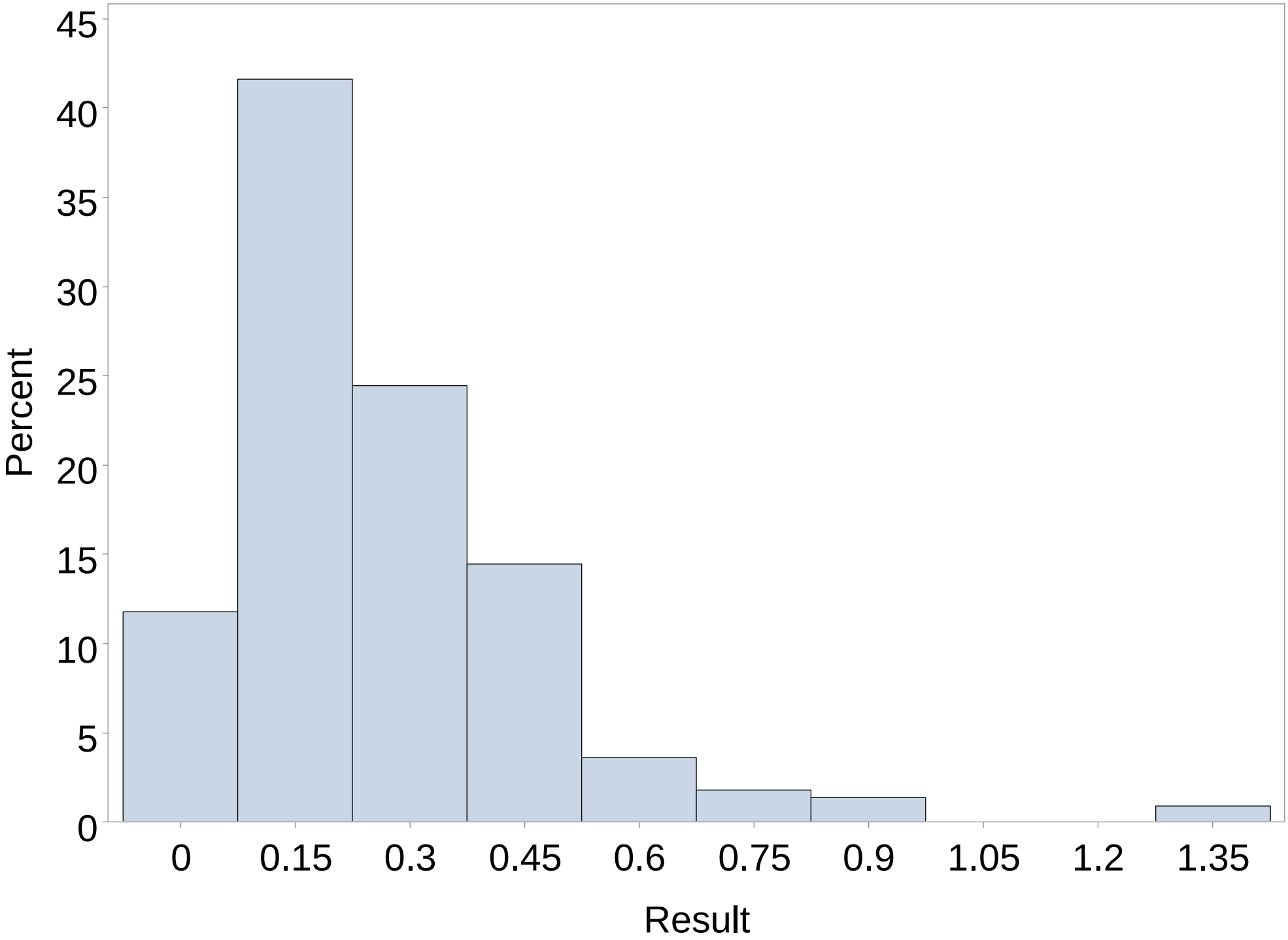
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.28094	**Pr > |t|**	<.0001
Sign	**M**	110.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12265.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.3560
99%	0.8820
95%	0.5740
90%	0.4800
75% Q3	0.3370
50% Median	0.2140
25% Q1	0.1220
10%	0.0678
5%	0.0520
1%	0.0292
0% Min	0.0290

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0290	36288	0.827	36160
0.0290	36278	0.831	36221
0.0292	36266	0.882	36143
0.0298	36268	1.320	36079
0.0346	36186	1.356	36118


Parameter=Iron (mg/L) River Kilometer=6.6 Level=Surface
Percent
45
40
35
30
25
20
15
10
5
0
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	222	**Sum Weights**	222
Mean	0.48360766	**Sum Observations**	107.3609
Std Deviation	0.29609359	**Variance**	0.08767142
Skewness	2.19223742	**Kurtosis**	10.2362711
Uncorrected SS	71.2959364	**Corrected SS**	19.375383
Coeff Variation	61.2259937	**Std Error Mean**	0.0198725

Basic Statistical Measures			
Location		**Variability**	
Mean	0.483608	**Std Deviation**	0.29609
Median	0.460500	**Variance**	0.08767
Mode	0.109000	**Range**	2.42620
		Interquartile Range	0.30900

Note: The mode displayed is the smallest of 24 modes with a count of 2.

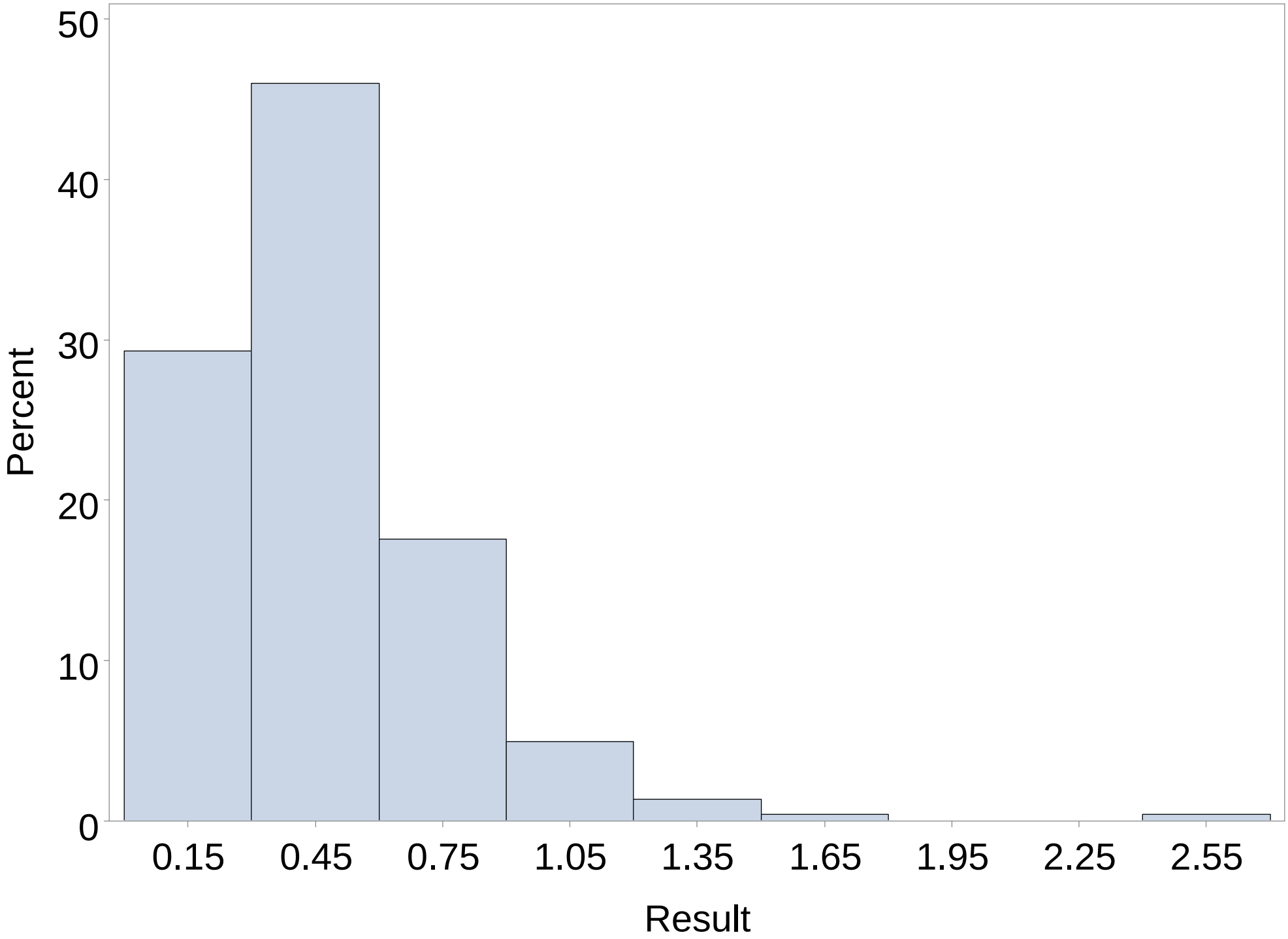
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.33552	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.5100
99%	1.4670
95%	0.9570
90%	0.8270
75% Q3	0.5950
50% Median	0.4605
25% Q1	0.2860
10%	0.1820
5%	0.1250
1%	0.0899
0% Min	0.0838

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0838	36371	1.228	36382
0.0850	36308	1.460	36445
0.0899	36490	1.467	36403
0.0912	36360	1.534	36339
0.0918	36492	2.510	36432


Parameter=Iron (mg/L) River Kilometer=15.5 Level=Bottom
Percent
50
40
30
20
10
0
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	222	**Sum Weights**	222
Mean	0.34179865	**Sum Observations**	75.8793
Std Deviation	0.20418825	**Variance**	0.04169284
Skewness	0.78539708	**Kurtosis**	0.25570076
Uncorrected SS	35.1495606	**Corrected SS**	9.21411837
Coeff Variation	59.7393393	**Std Error Mean**	0.01370422

Basic Statistical Measures			
Location		**Variability**	
Mean	0.341799	**Std Deviation**	0.20419
Median	0.301500	**Variance**	0.04169
Mode	0.352000	**Range**	1.00100
		Interquartile Range	0.31200

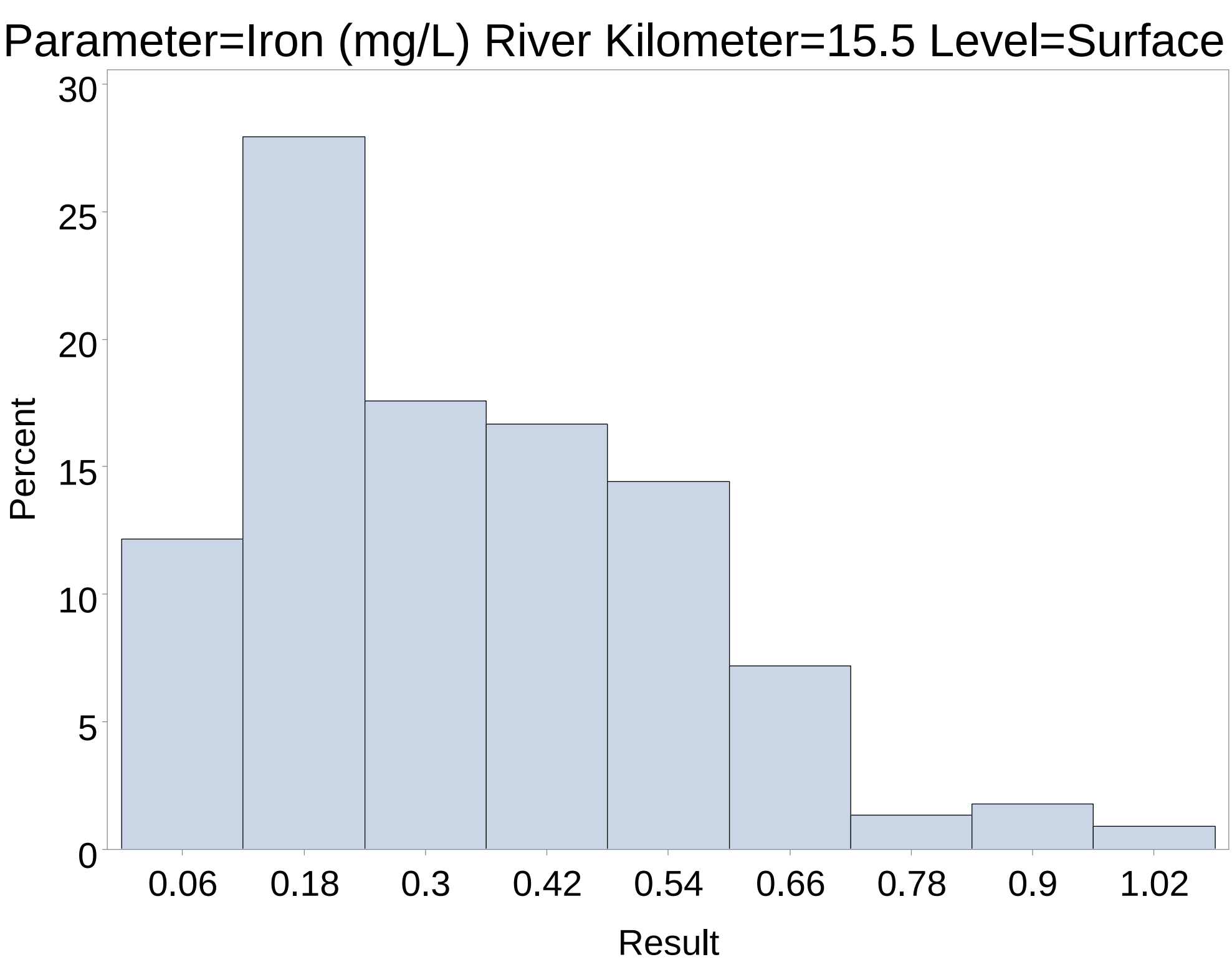
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.94113	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.0300
99%	0.9450
95%	0.6940
90%	0.6120
75% Q3	0.4890
50% Median	0.3015
25% Q1	0.1770
10%	0.1080
5%	0.0791
1%	0.0588
0% Min	0.0290

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0290	36712	0.855	36586
0.0501	36666	0.863	36536
0.0588	36713	0.945	36561
0.0628	36652	0.994	36522
0.0641	36711	1.030	36715


Parameter=Iron (mg/L) River Kilometer=15.5 Level=Surface
Percent
30
25
20
15
10
5
0
0.06
0.18
0.3
0.42
0.54
0.66
0.78
0.9
1.02
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	222	**Sum Weights**	222
Mean	0.40958108	**Sum Observations**	90.927
Std Deviation	0.38029361	**Variance**	0.14462323
Skewness	7.8437378	**Kurtosis**	87.3813527
Uncorrected SS	69.203713	**Corrected SS**	31.961734
Coeff Variation	92.8494086	**Std Error Mean**	0.02552364

Basic Statistical Measures			
Location		**Variability**	
Mean	0.409581	**Std Deviation**	0.38029
Median	0.350000	**Variance**	0.14462
Mode	0.132000	**Range**	4.80500
		Interquartile Range	0.29900

Note: The mode displayed is the smallest of 4 modes with a count of 3.

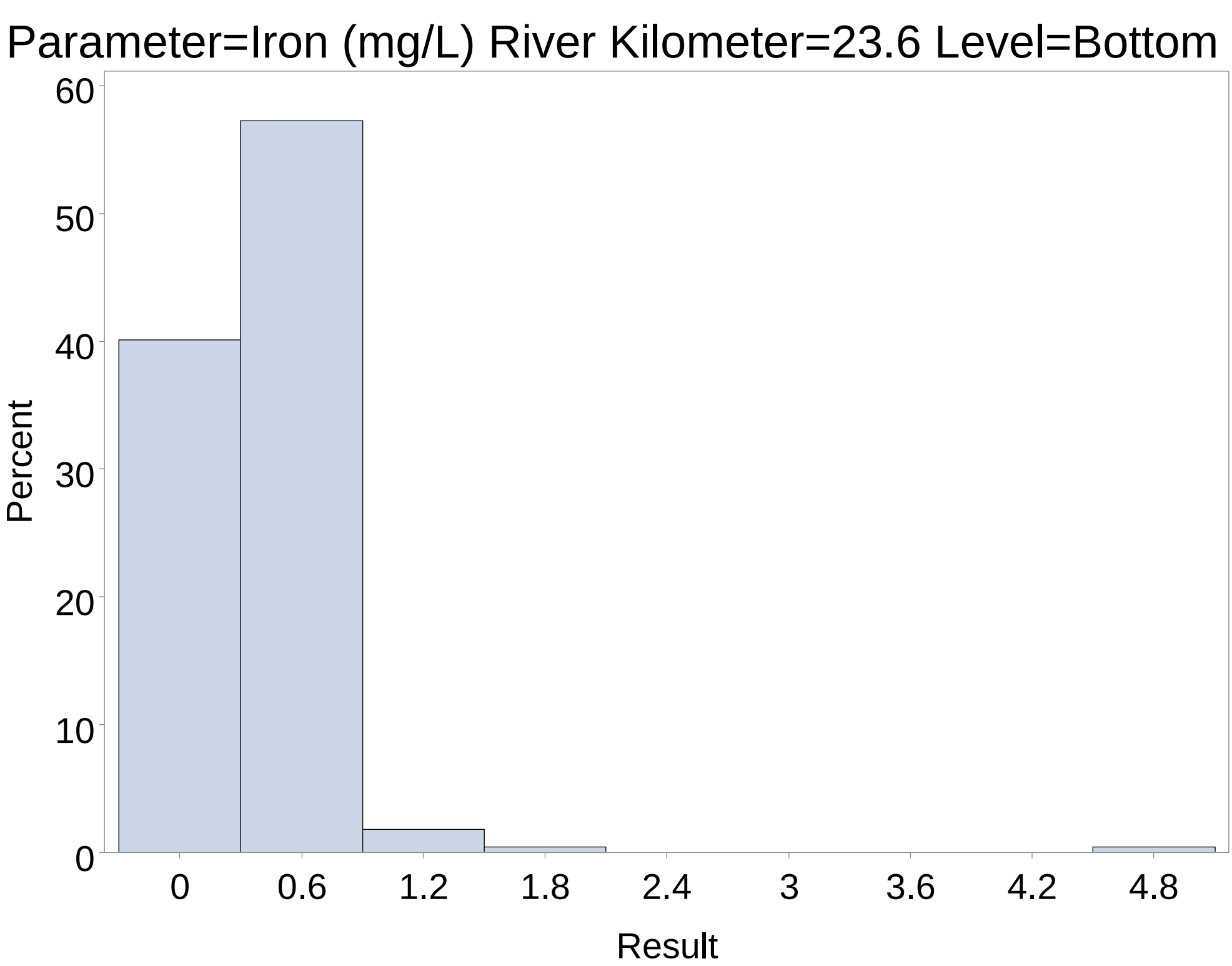
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.04713	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.880
99%	1.310
95%	0.785
90%	0.697
75% Q3	0.518
50% Median	0.350
25% Q1	0.219
10%	0.157
5%	0.132
1%	0.107
0% Min	0.075

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.075	36752	0.996	36808
0.100	36936	1.256	36783
0.107	36858	1.310	36937
0.112	36934	1.940	36893
0.112	36888	4.880	36946


Parameter=Iron (mg/L) River Kilometer=23.6 Level=Bottom
60
50
40
30
20
10
0
Percent
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	222	**Sum Weights**	222
Mean	0.35174414	**Sum Observations**	78.0872
Std Deviation	0.2159566	**Variance**	0.04663725
Skewness	1.51219465	**Kurtosis**	3.90729983
Uncorrected SS	37.7735478	**Corrected SS**	10.3068325
Coeff Variation	61.3959319	**Std Error Mean**	0.01449406

Basic Statistical Measures			
Location		**Variability**	
Mean	0.351744	**Std Deviation**	0.21596
Median	0.318000	**Variance**	0.04664
Mode	0.161000	**Range**	1.37000
		Interquartile Range	0.28900

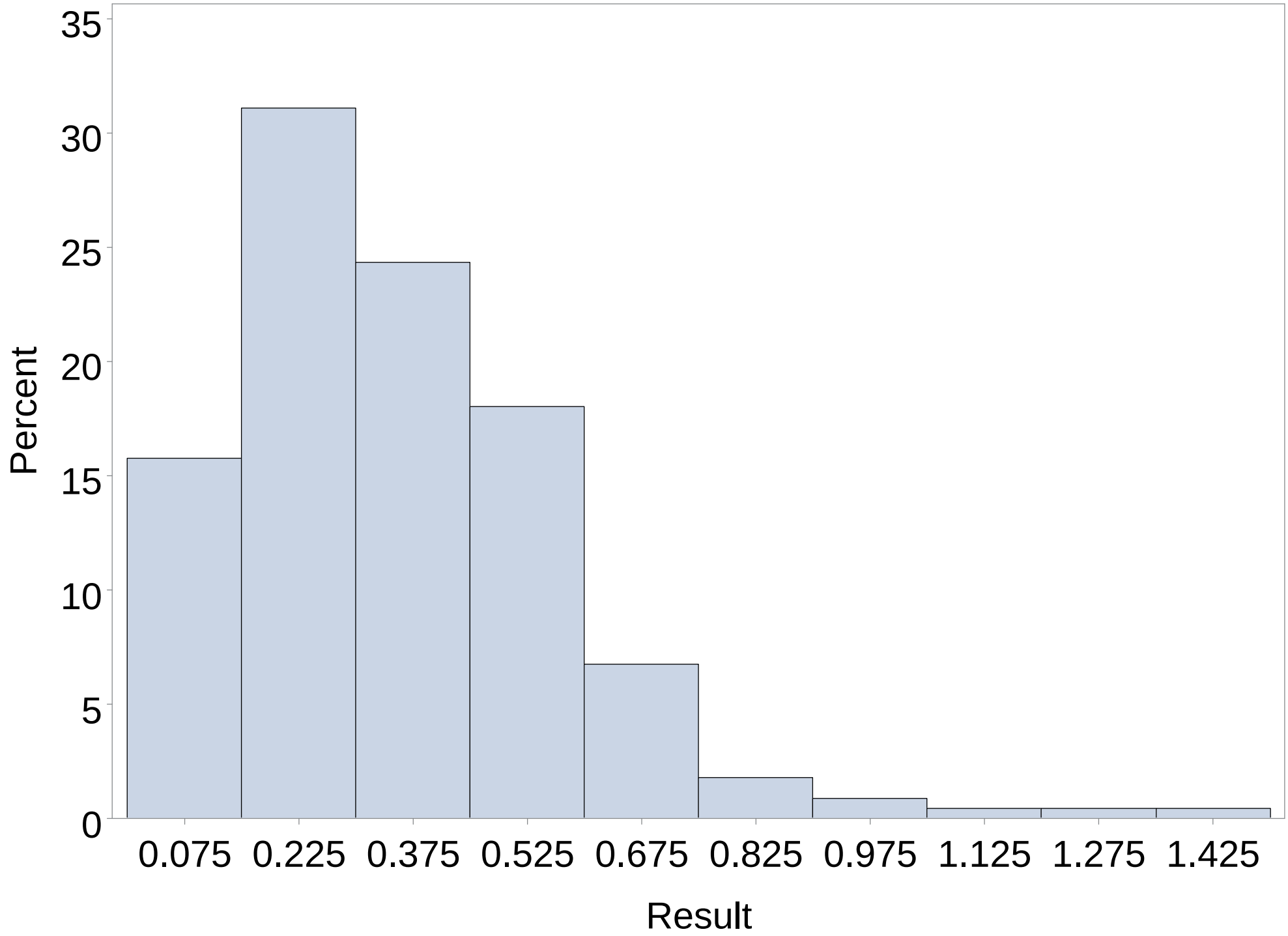
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.26816	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.4370
99%	1.1160
95%	0.7250
90%	0.6040
75% Q3	0.4660
50% Median	0.3180
25% Q1	0.1770
10%	0.1280
5%	0.1180
1%	0.0839
0% Min	0.0670

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0670	37156	0.919	36980
0.0775	37158	1.001	37030
0.0839	37036	1.116	36983
0.0860	36974	1.280	37159
0.0869	37026	1.437	37005


Parameter=Iron (mg/L) River Kilometer=23.6 Level=Surface
Percent
35
30
25
20
15
10
5
0
0.075
0.225
0.375
0.525
0.675
0.825
0.975
1.125
1.275
1.425
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	221	**Sum Weights**	221
Mean	0.40469276	**Sum Observations**	89.4371
Std Deviation	0.33186142	**Variance**	0.110132
Skewness	5.65328561	**Kurtosis**	55.7116448
Uncorrected SS	60.4235869	**Corrected SS**	24.22904
Coeff Variation	82.0032997	**Std Error Mean**	0.02232341

Basic Statistical Measures			
Location		**Variability**	
Mean	0.404693	**Std Deviation**	0.33186
Median	0.349000	**Variance**	0.11013
Mode	0.123000	**Range**	3.86590
		Interquartile Range	0.34700

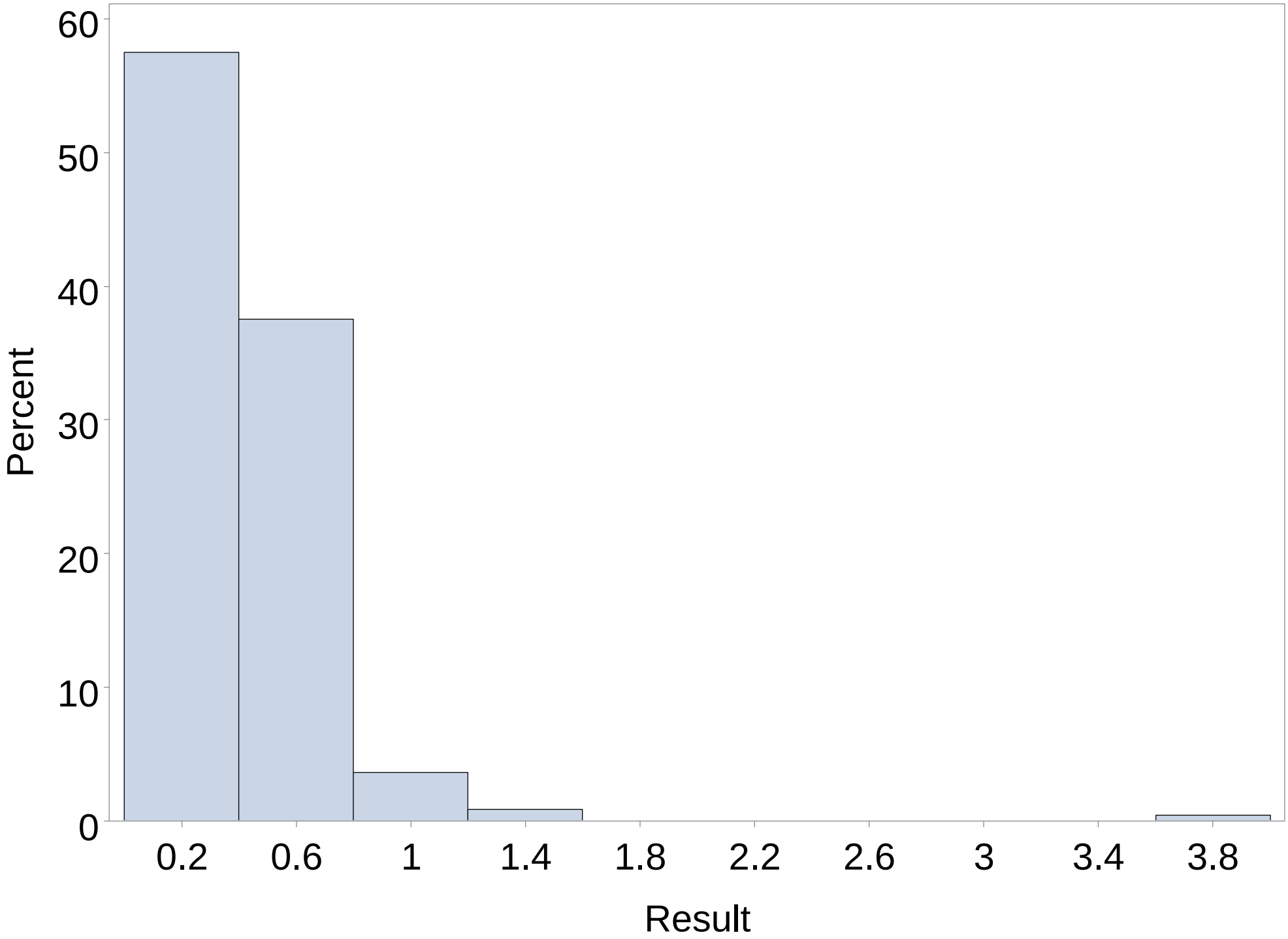
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.12862	**Pr > |t|**	<.0001
Sign	**M**	110.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12265.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.9030
99%	1.2060
95%	0.7460
90%	0.6890
75% Q3	0.5460
50% Median	0.3490
25% Q1	0.1990
10%	0.1230
5%	0.1110
1%	0.0825
0% Min	0.0371

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0371	37258	1.002	37326
0.0730	37332	1.020	37252
0.0825	37259	1.206	37227
0.0850	37249	1.450	37380
0.0853	37260	3.903	37291


Parameter=Iron (mg/L) River Kilometer=30.7 Level=Bottom
60
50
40
30
20
10
0
Percent
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	221	**Sum Weights**	221
Mean	0.36402172	**Sum Observations**	80.4488
Std Deviation	0.22640227	**Variance**	0.05125799
Skewness	1.13916612	**Kurtosis**	2.30778265
Uncorrected SS	40.5618681	**Corrected SS**	11.2767576
Coeff Variation	62.1947156	**Std Error Mean**	0.01522946

Basic Statistical Measures			
Location		**Variability**	
Mean	0.364022	**Std Deviation**	0.22640
Median	0.319000	**Variance**	0.05126
Mode	0.131000	**Range**	1.42500
		Interquartile Range	0.34700

Note: The mode displayed is the smallest of 4 modes with a count of 3.

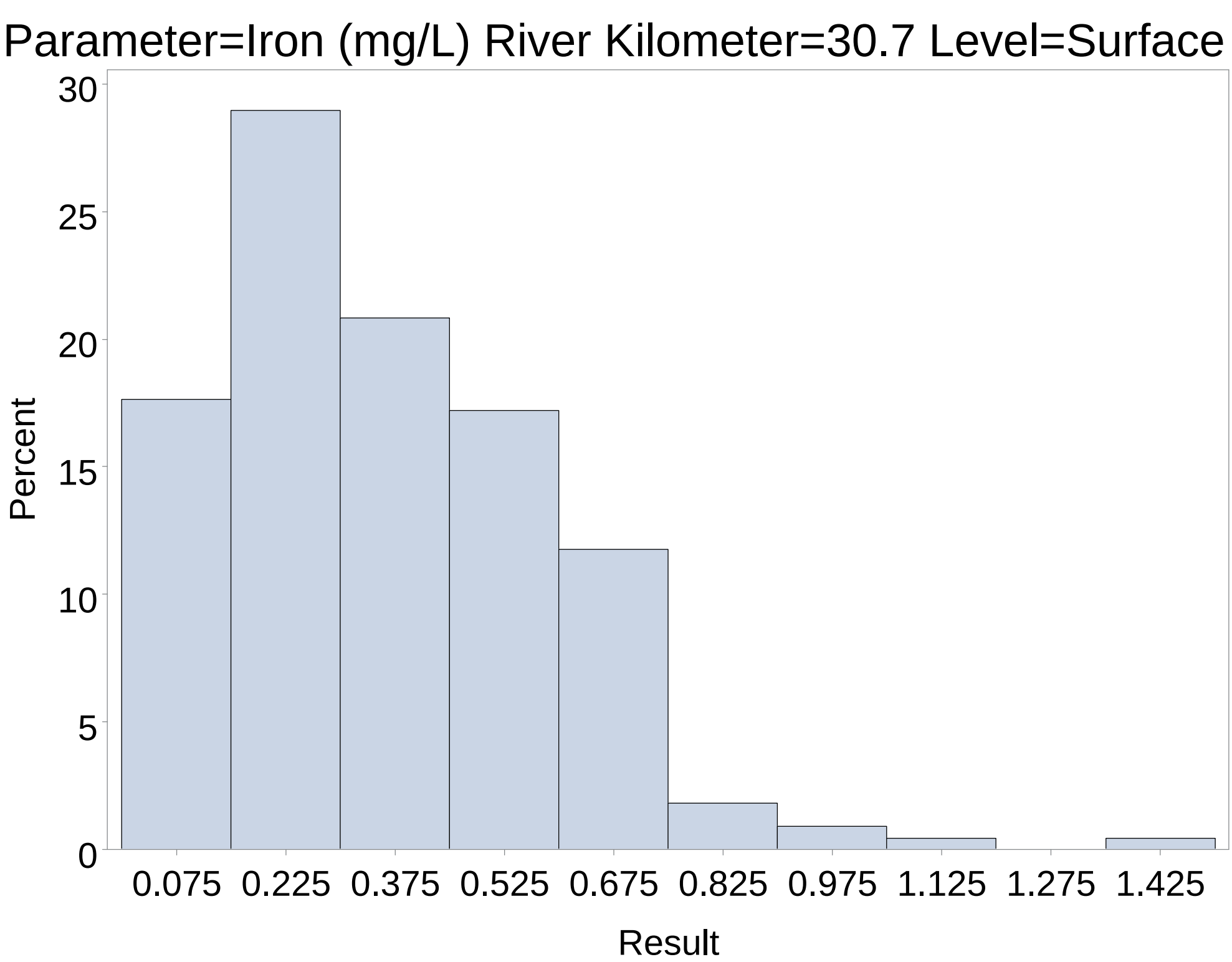
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.90246	**Pr > |t|**	<.0001
Sign	**M**	110.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	12265.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.4850
99%	0.9840
95%	0.7300
90%	0.6550
75% Q3	0.5180
50% Median	0.3190
25% Q1	0.1710
10%	0.1180
5%	0.0955
1%	0.0730
0% Min	0.0600

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Iron (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0600	37479	0.884	37423
0.0729	37470	0.902	37604
0.0730	37406	0.984	37473
0.0745	37553	1.183	37448
0.0750	37480	1.485	37601


Parameter=Iron (mg/L) River Kilometer=30.7 Level=Surface
30
25
20
15
10
5
0
Percent
0.075
0.225
0.375
0.525
0.675
0.825
0.975
1.125
1.275
1.425
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	0.02580128	**Sum Observations**	6.83734
Std Deviation	0.04955228	**Variance**	0.00245543
Skewness	5.45287496	**Kurtosis**	38.8600932
Uncorrected SS	0.82464537	**Corrected SS**	0.64823322
Coeff Variation	192.053567	**Std Error Mean**	0.00304397

Basic Statistical Measures			
Location		**Variability**	
Mean	0.025801	**Std Deviation**	0.04955
Median	0.011000	**Variance**	0.00246
Mode	0.004000	**Range**	0.46726
		Interquartile Range	0.01600

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.476188	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

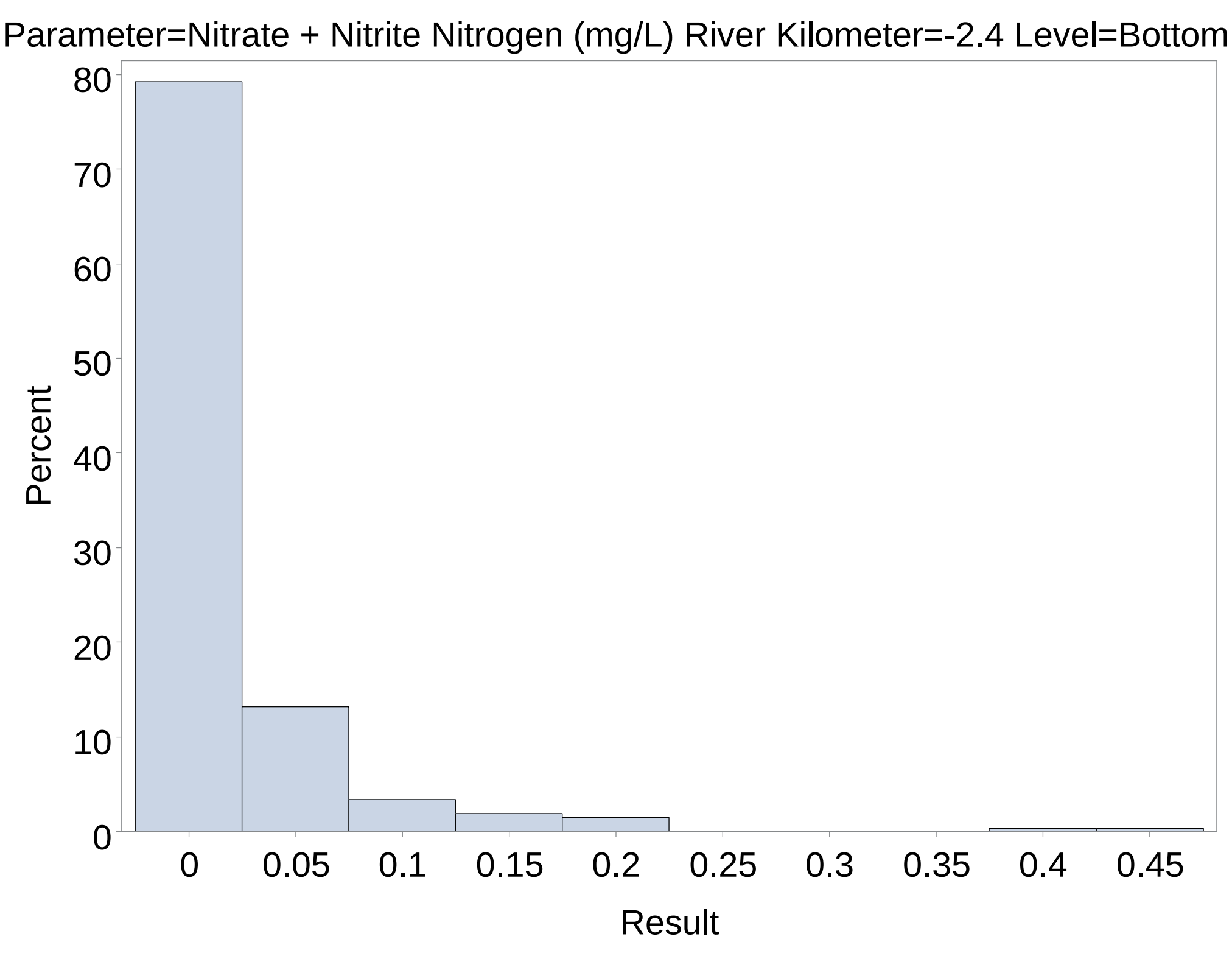
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.46900
99%	0.19400
95%	0.10800
90%	0.05700
75% Q3	0.02000
50% Median	0.01100
25% Q1	0.00400
10%	0.00400
5%	0.00400
1%	0.00200
0% Min	0.00174

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00174	37690	0.178	37726
0.00200	37677	0.180	37637
0.00200	37676	0.194	37870
0.00200	37675	0.413	37709
0.00200	37673	0.469	37717

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	0.02855468	**Sum Observations**	7.6241
Std Deviation	0.043969	**Variance**	0.00193327
Skewness	2.84056975	**Kurtosis**	8.70179116
Uncorrected SS	0.73195445	**Corrected SS**	0.5142507
Coeff Variation	153.981769	**Std Error Mean**	0.00269086

Basic Statistical Measures			
Location		**Variability**	
Mean	0.028555	**Std Deviation**	0.04397
Median	0.012000	**Variance**	0.00193
Mode	0.004000	**Range**	0.26300
		Interquartile Range	0.01900

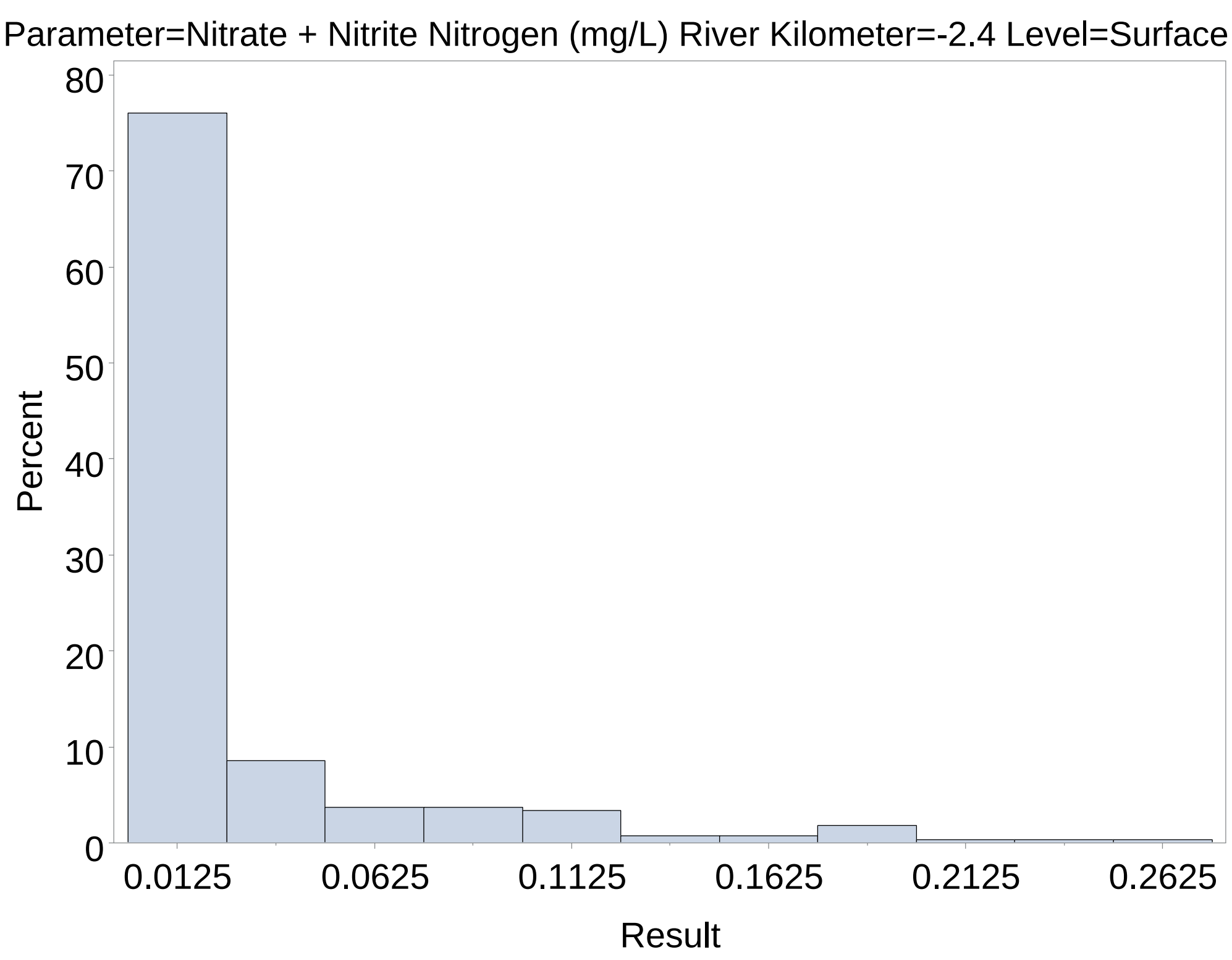
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.61173	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.265
99%	0.220
95%	0.119
90%	0.088
75% Q3	0.023
50% Median	0.012
25% Q1	0.004
10%	0.004
5%	0.004
1%	0.002
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	37942	0.190	37961
0.002	37941	0.193	37944
0.002	37939	0.220	37903
0.002	37938	0.247	37969
0.002	37934	0.265	37959


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface
Percent
80
70
60
50
40
30
20
10
0
0.0125
0.0625
0.1125
0.1625
0.2125
0.2625
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	0.0421959	**Sum Observations**	11.3085
Std Deviation	0.06117644	**Variance**	0.00374256
Skewness	2.67446329	**Kurtosis**	8.82485176
Uncorrected SS	1.47643501	**Corrected SS**	0.99926273
Coeff Variation	144.981973	**Std Error Mean**	0.00373695

Basic Statistical Measures			
Location		**Variability**	
Mean	0.042196	**Std Deviation**	0.06118
Median	0.020000	**Variance**	0.00374
Mode	0.004000	**Range**	0.42800
		Interquartile Range	0.04250

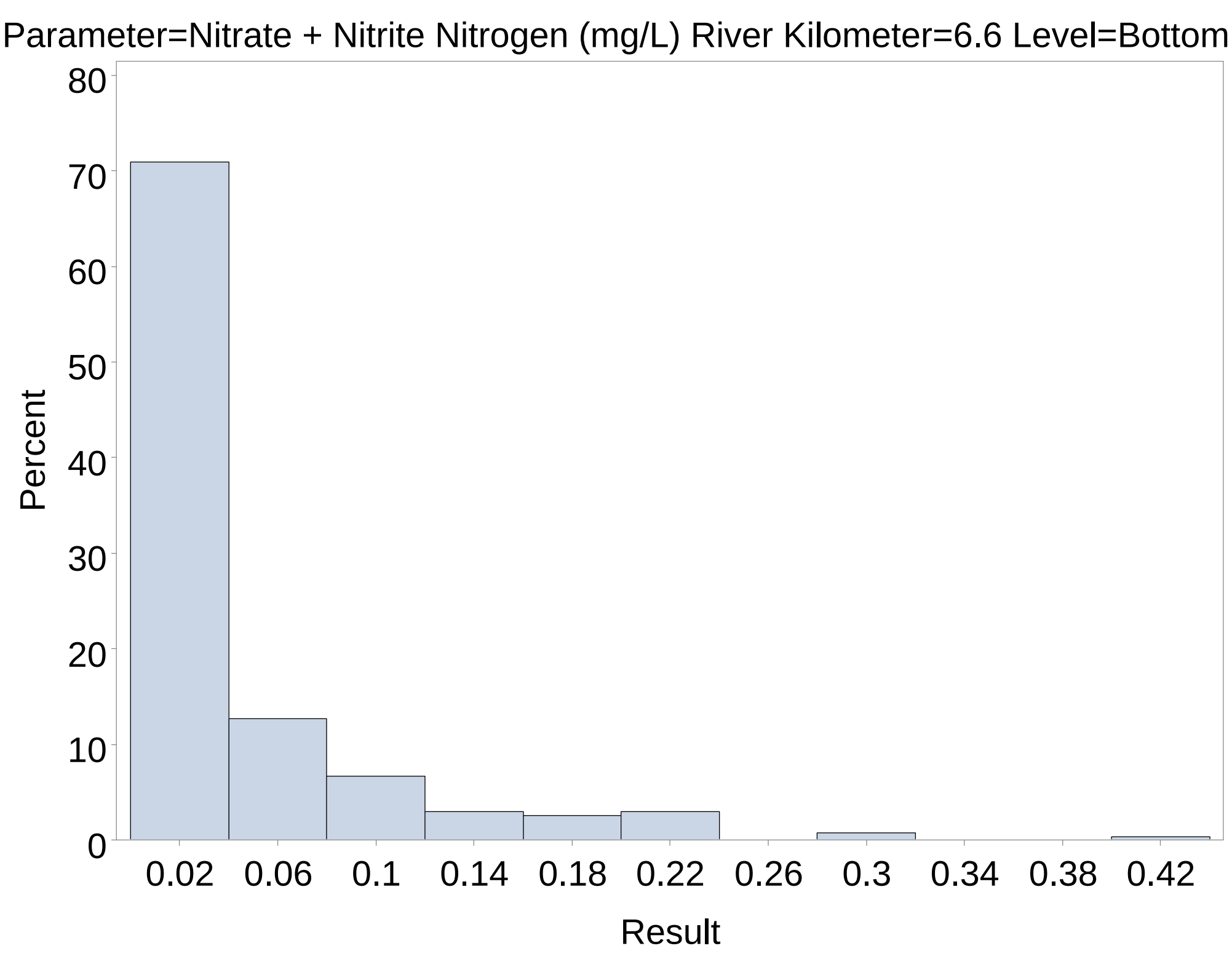
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.29155	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.4300
99%	0.2890
95%	0.1900
90%	0.1140
75% Q3	0.0475
50% Median	0.0200
25% Q1	0.0050
10%	0.0040
5%	0.0040
1%	0.0020
0% Min	0.0020

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	38213	0.236	38261
0.002	38211	0.237	38227
0.002	38210	0.289	38256
0.002	38207	0.303	38405
0.002	38206	0.430	38169


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
0.02
0.06
0.1
0.14
0.18
0.22
0.26
0.3
0.34
0.38
0.42
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	0.07123895	**Sum Observations**	19.0208
Std Deviation	0.09425283	**Variance**	0.0088836
Skewness	2.05984844	**Kurtosis**	5.44308562
Uncorrected SS	3.71805842	**Corrected SS**	2.36303657
Coeff Variation	132.305192	**Std Error Mean**	0.00576818

Basic Statistical Measures			
Location		**Variability**	
Mean	0.071239	**Std Deviation**	0.09425
Median	0.020000	**Variance**	0.00888
Mode	0.004000	**Range**	0.56800
		Interquartile Range	0.10200

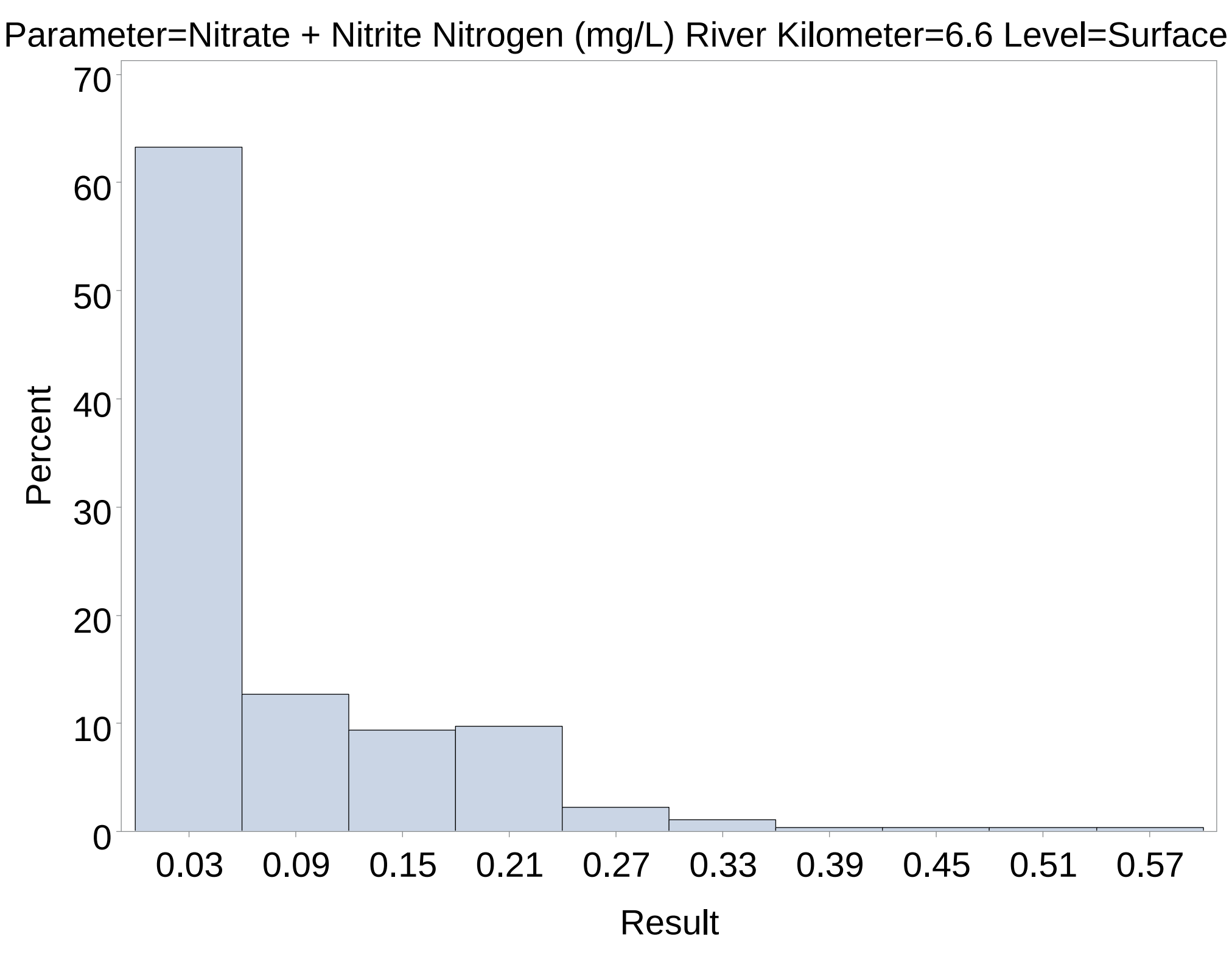
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.35034	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.570
99%	0.440
95%	0.236
90%	0.200
75% Q3	0.109
50% Median	0.020
25% Q1	0.007
10%	0.004
5%	0.004
1%	0.002
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	38478	0.353	38479
0.002	38477	0.380	38437
0.002	38476	0.440	38436
0.002	38474	0.536	38526
0.002	38473	0.570	38490


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=6.6 Level=Surface
Percent
70
60
50
40
30
20
10
0
0.03
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
0.57
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	0.17796978	**Sum Observations**	47.6959
Std Deviation	0.16038267	**Variance**	0.0257226
Skewness	1.14310703	**Kurtosis**	1.60963987
Uncorrected SS	15.3563631	**Corrected SS**	6.86793441
Coeff Variation	90.1179252	**Std Error Mean**	0.00979693

Basic Statistical Measures			
Location		**Variability**	
Mean	0.177970	**Std Deviation**	0.16038
Median	0.156500	**Variance**	0.02572
Mode	0.004000	**Range**	0.84800
		Interquartile Range	0.24200

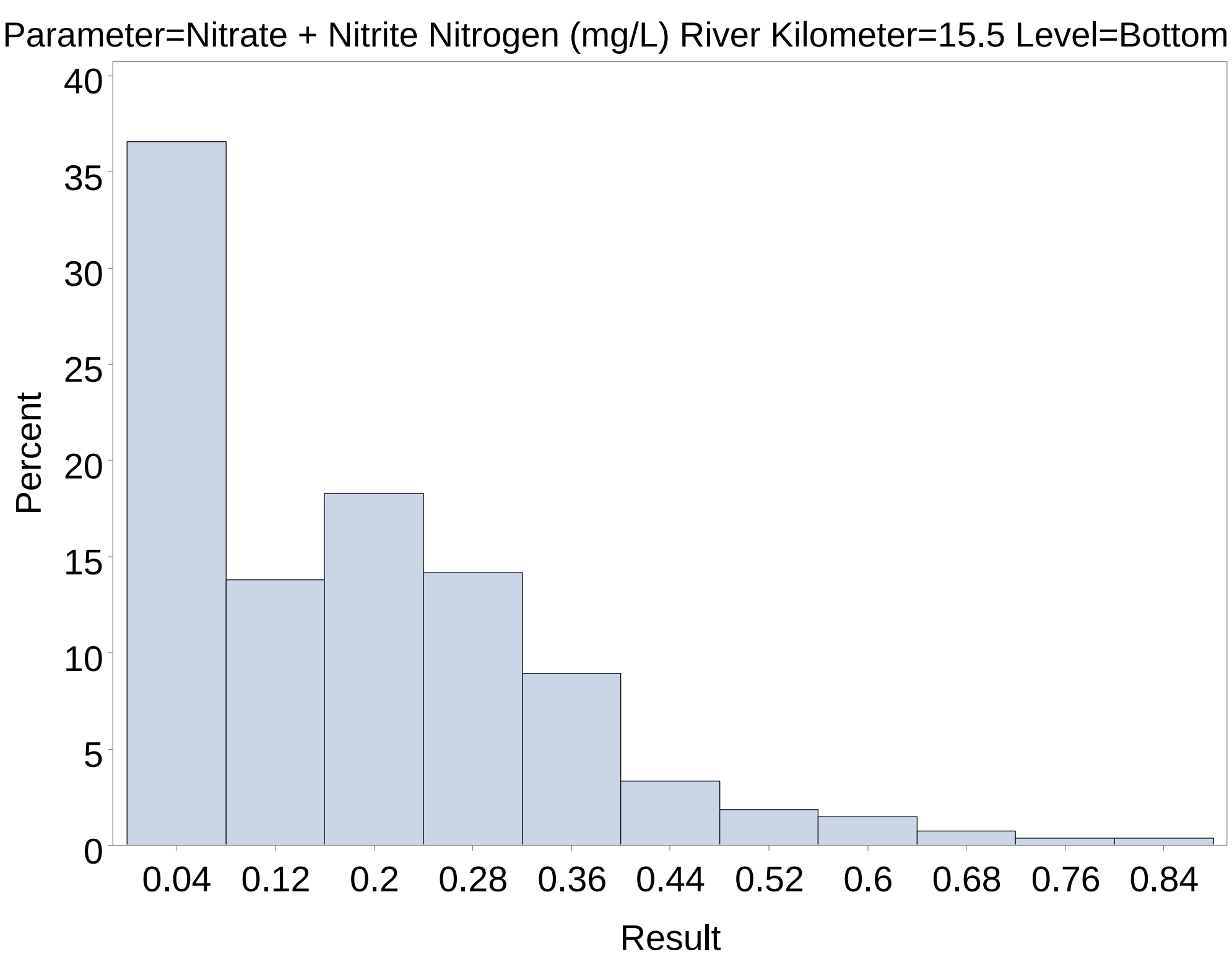
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.16587	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.8500
99%	0.7190
95%	0.4670
90%	0.3820
75% Q3	0.2770
50% Median	0.1565
25% Q1	0.0350
10%	0.0060
5%	0.0040
1%	0.0026
0% Min	0.0020

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0020	38742	0.610	38722
0.0020	38741	0.717	38737
0.0026	38757	0.719	38765
0.0030	38745	0.770	38711
0.0040	38930	0.850	38758


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0.04
0.12
0.2
0.28
0.36
0.44
0.52
0.6
0.68
0.76
0.84
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	0.19114535	**Sum Observations**	51.4181
Std Deviation	0.1759863	**Variance**	0.03097118
Skewness	1.4212891	**Kurtosis**	2.90133619
Uncorrected SS	18.1286064	**Corrected SS**	8.30027553
Coeff Variation	92.0693576	**Std Error Mean**	0.01073007

Basic Statistical Measures			
Location		**Variability**	
Mean	0.191145	**Std Deviation**	0.17599
Median	0.164000	**Variance**	0.03097
Mode	0.004000	**Range**	1.01000
		Interquartile Range	0.24500

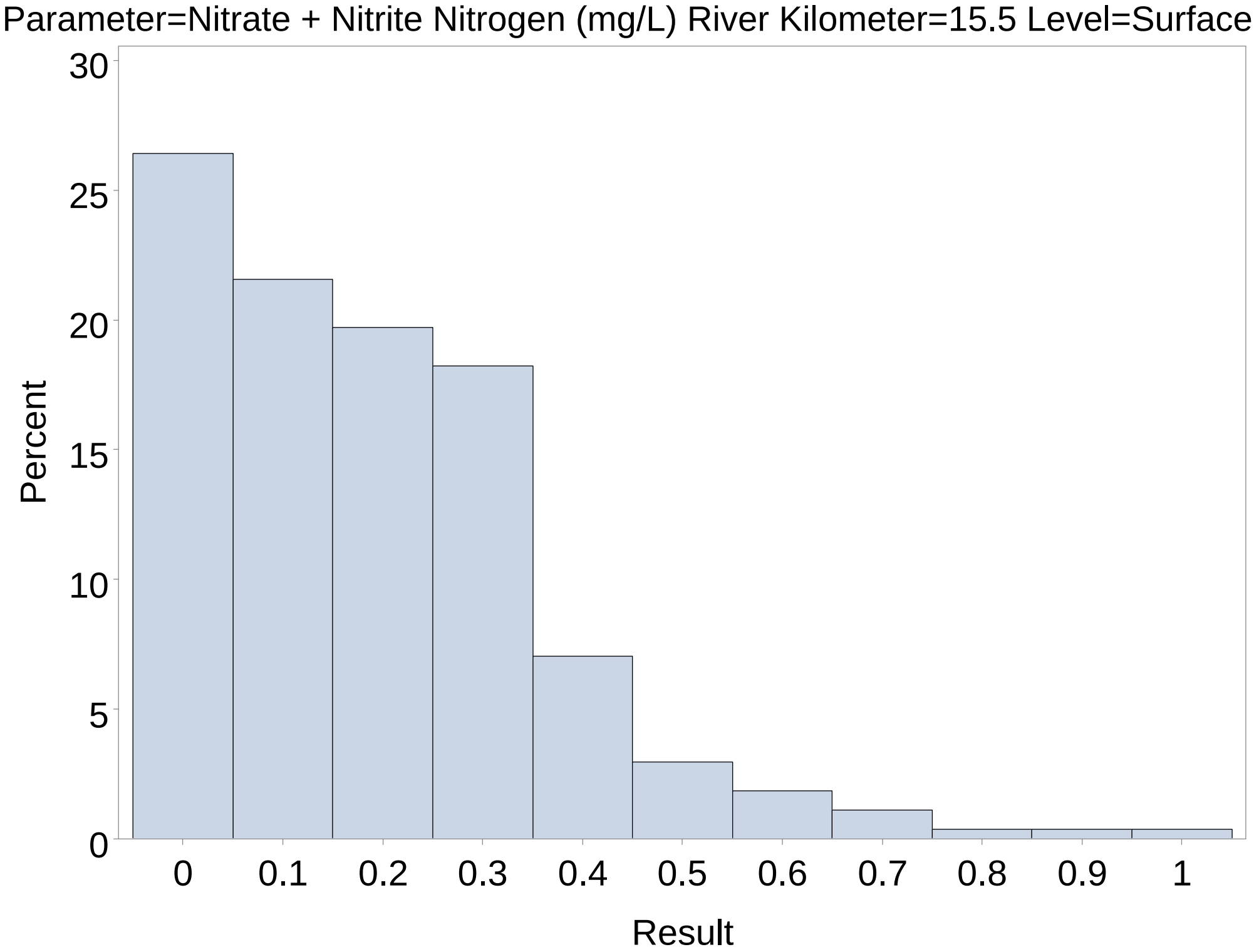
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.81398	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.012
99%	0.816
95%	0.529
90%	0.405
75% Q3	0.287
50% Median	0.164
25% Q1	0.042
10%	0.009
5%	0.004
1%	0.002
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0020	39013	0.732	39033
0.0020	39010	0.742	39005
0.0020	39009	0.816	39031
0.0020	39004	0.920	38990
0.0021	39025	1.012	39019


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=15.5 Level=Surface
Percent
30
25
20
15
10
5
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	0.32566418	**Sum Observations**	87.278
Std Deviation	0.24392583	**Variance**	0.05949981
Skewness	1.09278531	**Kurtosis**	1.96332081
Uncorrected SS	44.309768	**Corrected SS**	15.8864498
Coeff Variation	74.9010325	**Std Error Mean**	0.01490014

Basic Statistical Measures			
Location		**Variability**	
Mean	0.325664	**Std Deviation**	0.24393
Median	0.307000	**Variance**	0.05950
Mode	0.004000	**Range**	1.31800
		Interquartile Range	0.32100

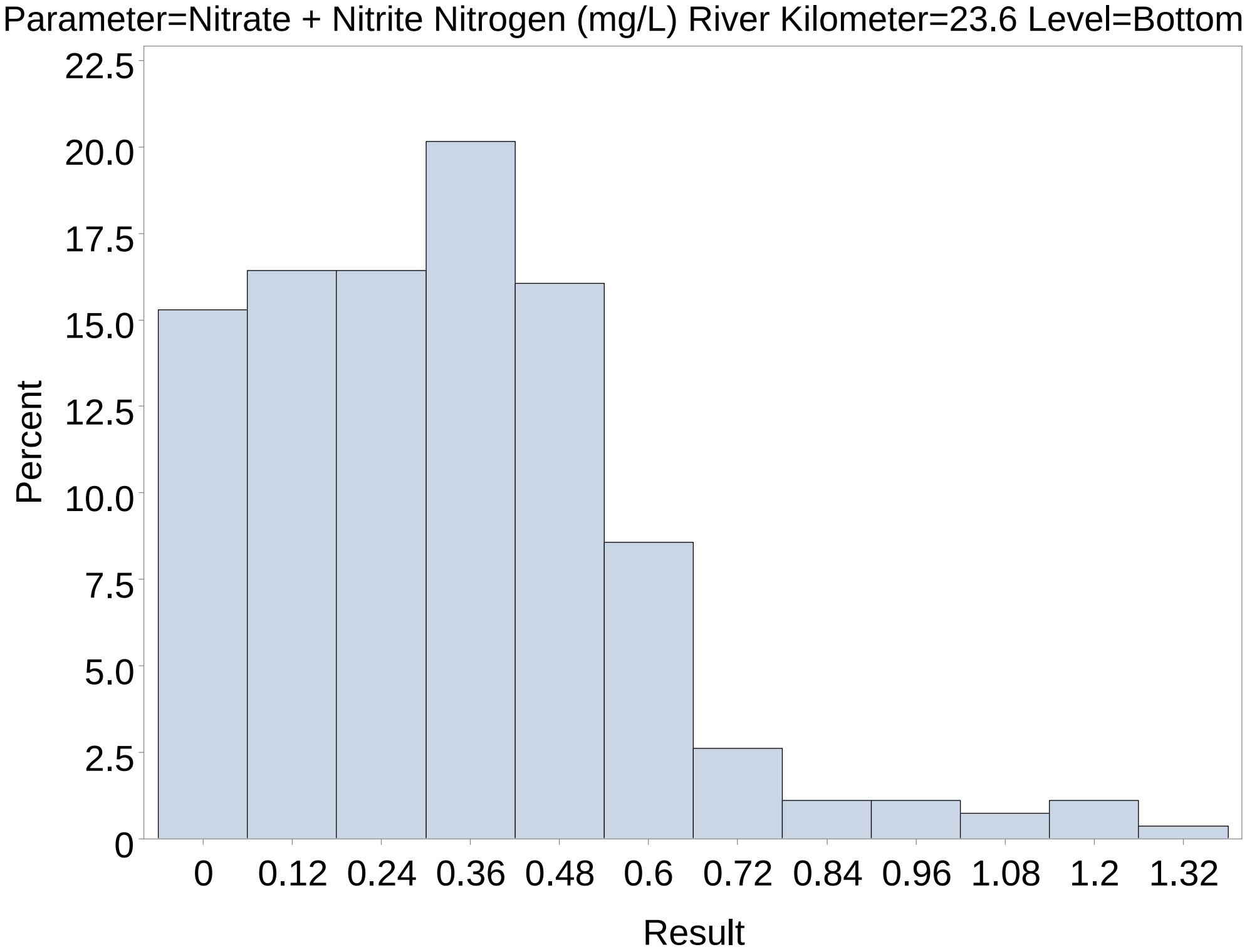
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.85645	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.3200
99%	1.1900
95%	0.7240
90%	0.6160
75% Q3	0.4525
50% Median	0.3070
25% Q1	0.1315
10%	0.0310
5%	0.0160
1%	0.0040
0% Min	0.0020

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	39278	1.10	39290
0.004	39460	1.18	39324
0.004	39402	1.19	39396
0.004	39401	1.20	39258
0.004	39366	1.32	39282


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
1.32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	0.3409777	**Sum Observations**	91.723
Std Deviation	0.33237837	**Variance**	0.11047538
Skewness	5.31221415	**Kurtosis**	53.2305044
Uncorrected SS	60.882899	**Corrected SS**	29.6074019
Coeff Variation	97.4780385	**Std Error Mean**	0.02026547

Basic Statistical Measures			
Location		**Variability**	
Mean	0.340978	**Std Deviation**	0.33238
Median	0.307000	**Variance**	0.11048
Mode	0.004000	**Range**	3.97800
		Interquartile Range	0.33300

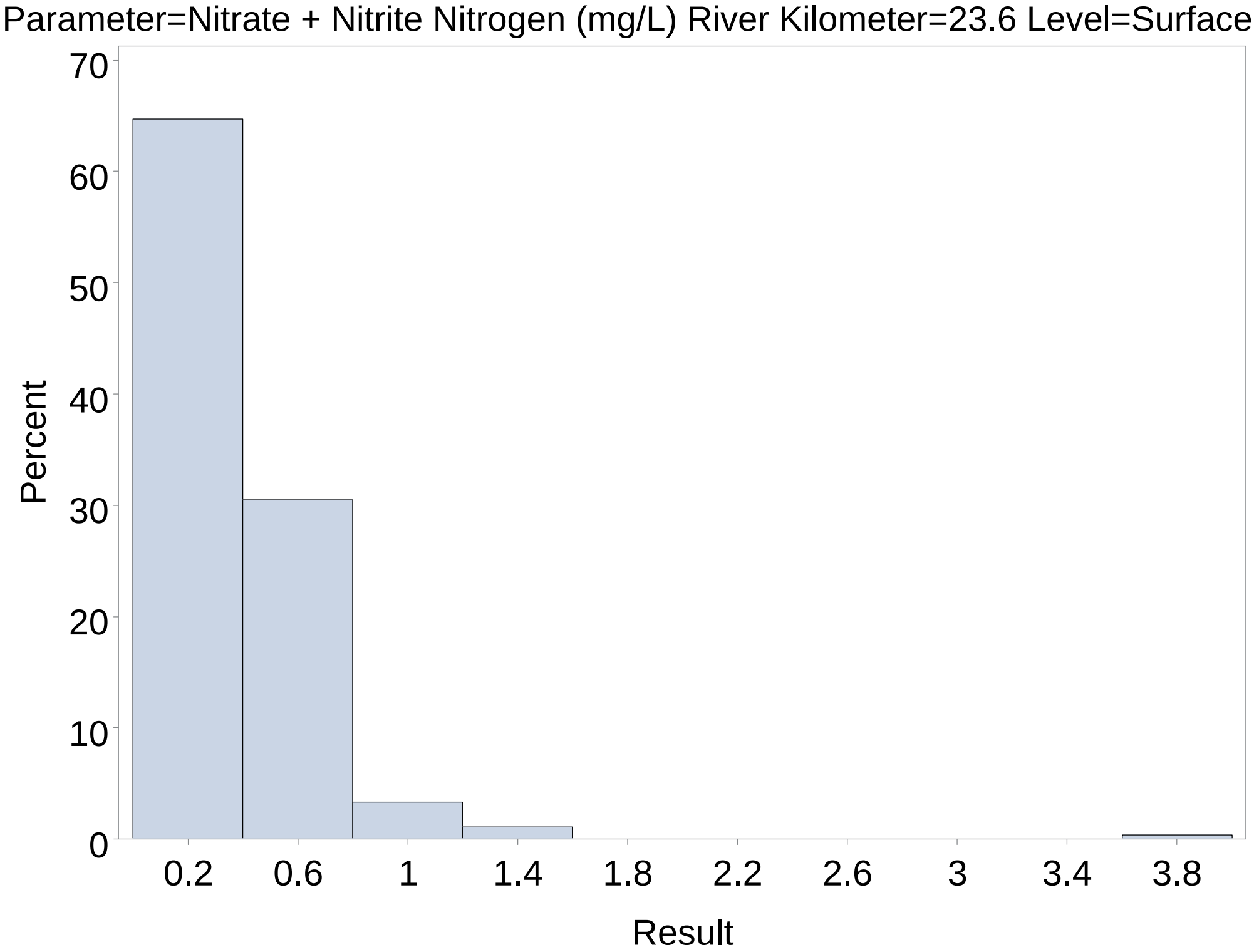
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.82555	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.980
99%	1.290
95%	0.796
90%	0.620
75% Q3	0.460
50% Median	0.307
25% Q1	0.127
10%	0.032
5%	0.015
1%	0.004
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	39547	1.17	39593
0.004	39742	1.20	39527
0.004	39729	1.29	39551
0.004	39694	1.31	39665
0.004	39682	3.98	39578


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=23.6 Level=Surface
Percent
70
60
50
40
30
20
10
0
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	0.42353184	**Sum Observations**	113.083
Std Deviation	0.30987299	**Variance**	0.09602127
Skewness	1.3908339	**Kurtosis**	4.03763083
Uncorrected SS	73.435909	**Corrected SS**	25.5416585
Coeff Variation	73.1640383	**Std Error Mean**	0.01896392

Basic Statistical Measures			
Location		**Variability**	
Mean	0.423532	**Std Deviation**	0.30987
Median	0.407000	**Variance**	0.09602
Mode	0.004000	**Range**	2.07600
		Interquartile Range	0.35100

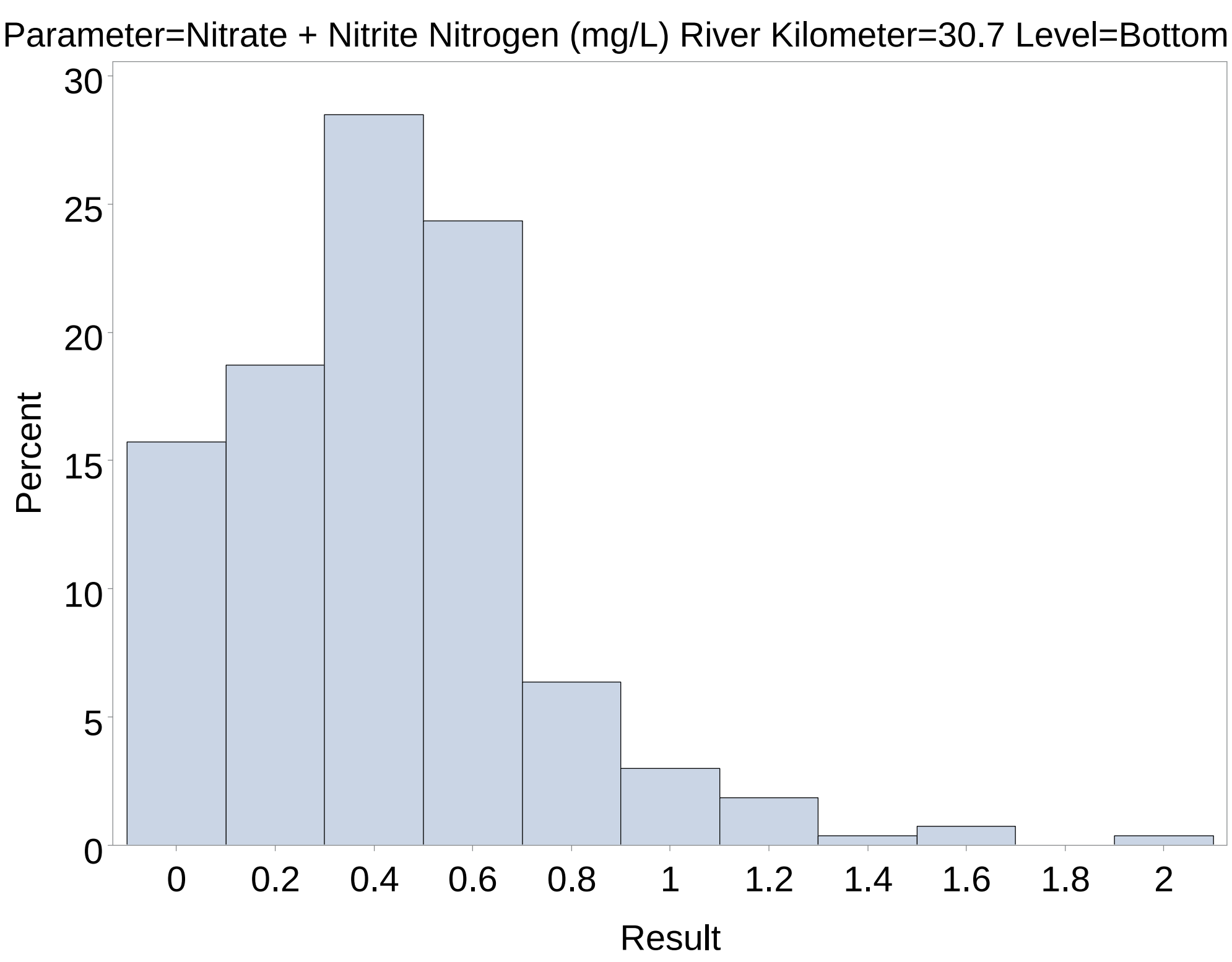
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.33356	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.080
99%	1.640
95%	0.970
90%	0.787
75% Q3	0.558
50% Median	0.407
25% Q1	0.207
10%	0.035
5%	0.007
1%	0.004
0% Min	0.004

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	40009	1.29	39883
0.004	40005	1.30	39770
0.004	39996	1.64	39814
0.004	39973	1.64	39819
0.004	39962	2.08	39909


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom
Percent
30
25
20
15
10
5
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	0.40788806	**Sum Observations**	109.314
Std Deviation	0.28893645	**Variance**	0.08348427
Skewness	0.94212758	**Kurtosis**	1.74096445
Uncorrected SS	66.878176	**Corrected SS**	22.2903006
Coeff Variation	70.8371925	**Std Error Mean**	0.0176496

Basic Statistical Measures			
Location		**Variability**	
Mean	0.407888	**Std Deviation**	0.28894
Median	0.400500	**Variance**	0.08348
Mode	0.004000	**Range**	1.62800
		Interquartile Range	0.36000

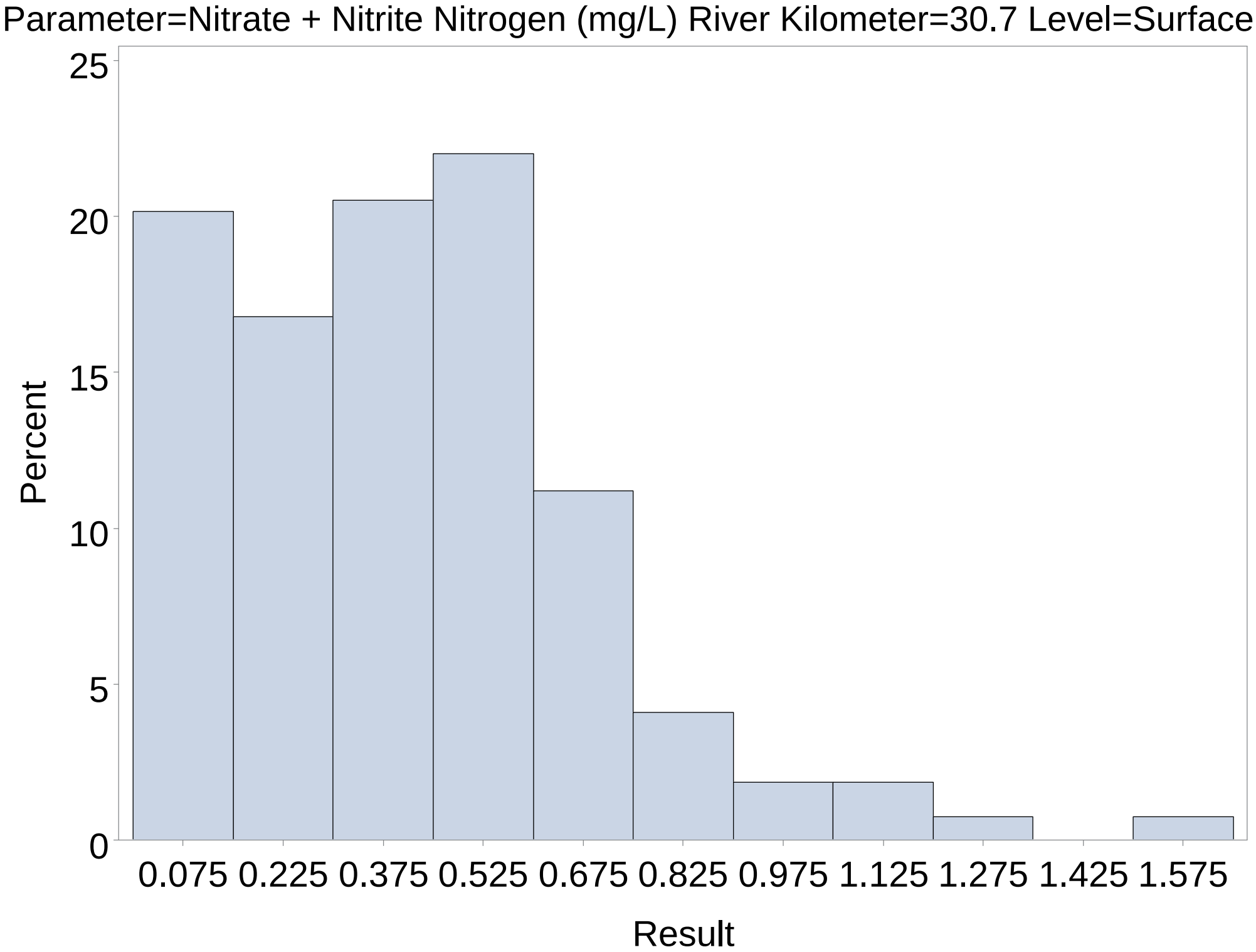
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.11033	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.6300
99%	1.3000
95%	0.9200
90%	0.7350
75% Q3	0.5525
50% Median	0.4005
25% Q1	0.1925
10%	0.0260
5%	0.0040
1%	0.0040
0% Min	0.0020

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	40076	1.19	40129
0.004	40264	1.20	40063
0.004	40241	1.30	40037
0.004	40230	1.59	40087
0.004	40218	1.63	40082


Parameter=Nitrate + Nitrite Nitrogen (mg/L) River Kilometer=30.7 Level=Surface
25
20
15
10
5
0
Percent
0.075
0.225
0.375
0.525
0.675
0.825
0.975
1.125
1.275
1.425
1.575
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	0.0601985	**Sum Observations**	16.073
Std Deviation	0.08276842	**Variance**	0.00685061
Skewness	2.84456284	**Kurtosis**	10.8342218
Uncorrected SS	2.789833	**Corrected SS**	1.82226248
Coeff Variation	137.492486	**Std Error Mean**	0.00506534

Basic Statistical Measures			
Location		**Variability**	
Mean	0.060199	**Std Deviation**	0.08277
Median	0.029000	**Variance**	0.00685
Mode	0.008000	**Range**	0.61200
		Interquartile Range	0.06000

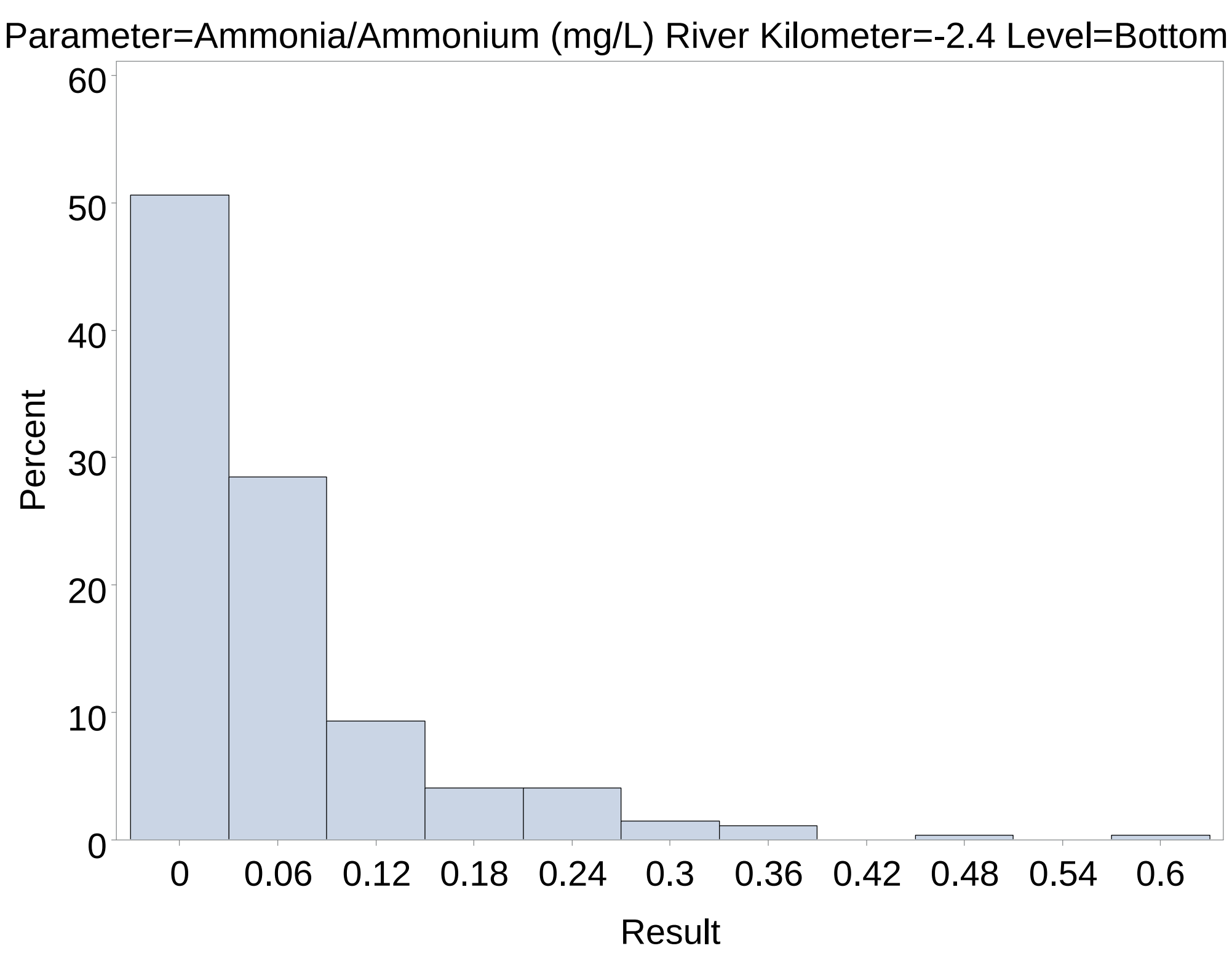
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.88438	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.618
99%	0.354
95%	0.240
90%	0.156
75% Q3	0.070
50% Median	0.029
25% Q1	0.010
10%	0.008
5%	0.006
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	40411	0.342	40545
0.006	40410	0.352	40355
0.006	40409	0.354	40498
0.006	40406	0.460	40332
0.006	40405	0.618	40357


Parameter=Ammonia/Ammonium (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
60
50
40
30
20
10
0
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	0.04233708	**Sum Observations**	11.304
Std Deviation	0.05265613	**Variance**	0.00277267
Skewness	2.50968782	**Kurtosis**	7.27984162
Uncorrected SS	1.216108	**Corrected SS**	0.73752966
Coeff Variation	124.373553	**Std Error Mean**	0.0032225

Basic Statistical Measures			
Location		**Variability**	
Mean	0.042337	**Std Deviation**	0.05266
Median	0.023000	**Variance**	0.00277
Mode	0.008000	**Range**	0.33300
		Interquartile Range	0.04200

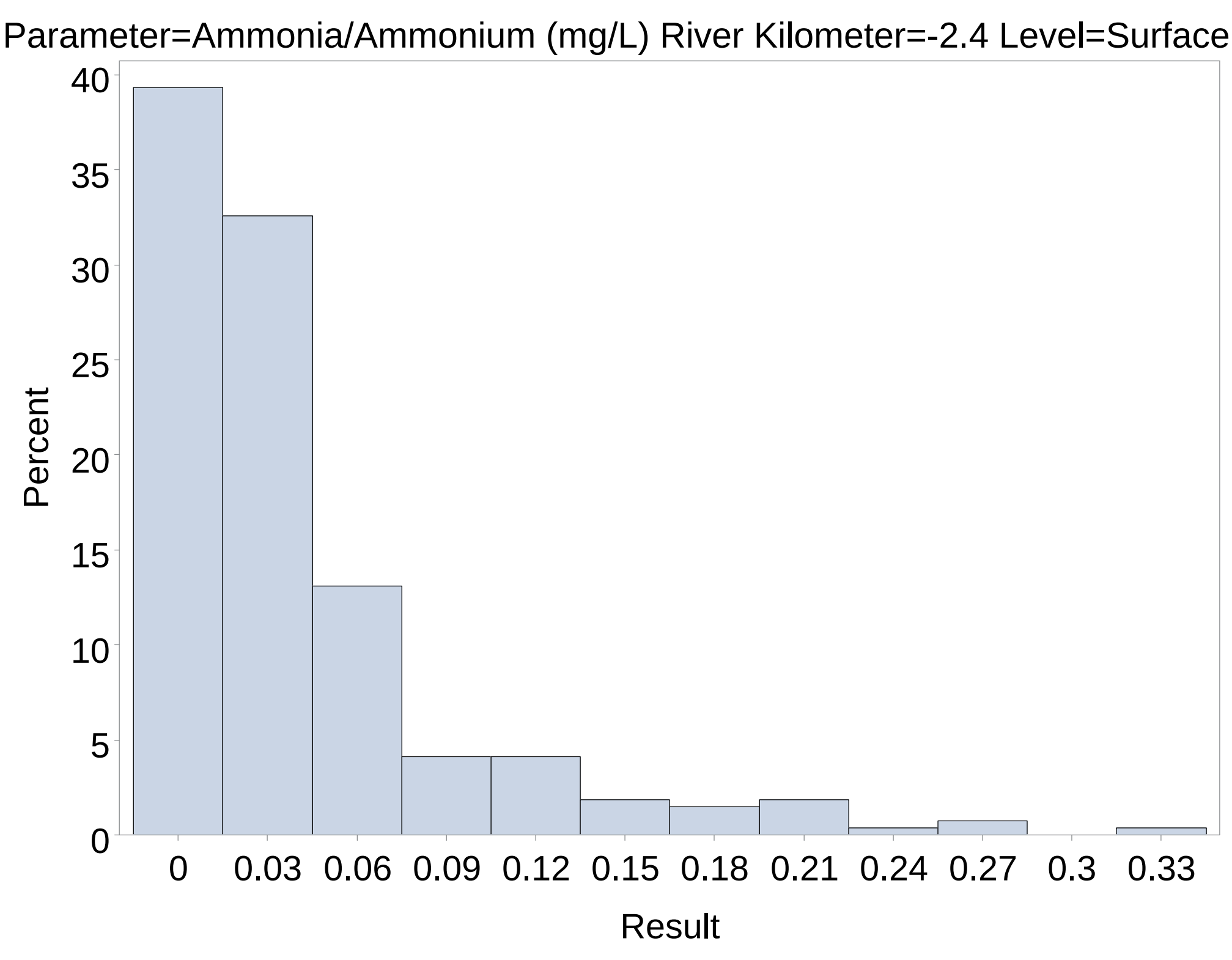
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.13795	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.338
99%	0.265
95%	0.160
90%	0.110
75% Q3	0.050
50% Median	0.023
25% Q1	0.008
10%	0.008
5%	0.006
1%	0.006
0% Min	0.005

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.005	40724	0.217	40710
0.005	40717	0.241	40726
0.006	40678	0.265	40721
0.006	40677	0.267	40714
0.006	40676	0.338	40623


Parameter=Ammonia/Ammonium (mg/L) River Kilometer=-2.4 Level=Surface
Percent
40
35
30
25
20
15
10
5
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
0.33
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	0.07430224	**Sum Observations**	19.913
Std Deviation	0.10617949	**Variance**	0.01127408
Skewness	3.13434413	**Kurtosis**	12.0857415
Uncorrected SS	4.489761	**Corrected SS**	3.01018052
Coeff Variation	142.902142	**Std Error Mean**	0.00648594

Basic Statistical Measures			
Location		**Variability**	
Mean	0.074302	**Std Deviation**	0.10618
Median	0.036000	**Variance**	0.01127
Mode	0.008000	**Range**	0.72100
		Interquartile Range	0.07700

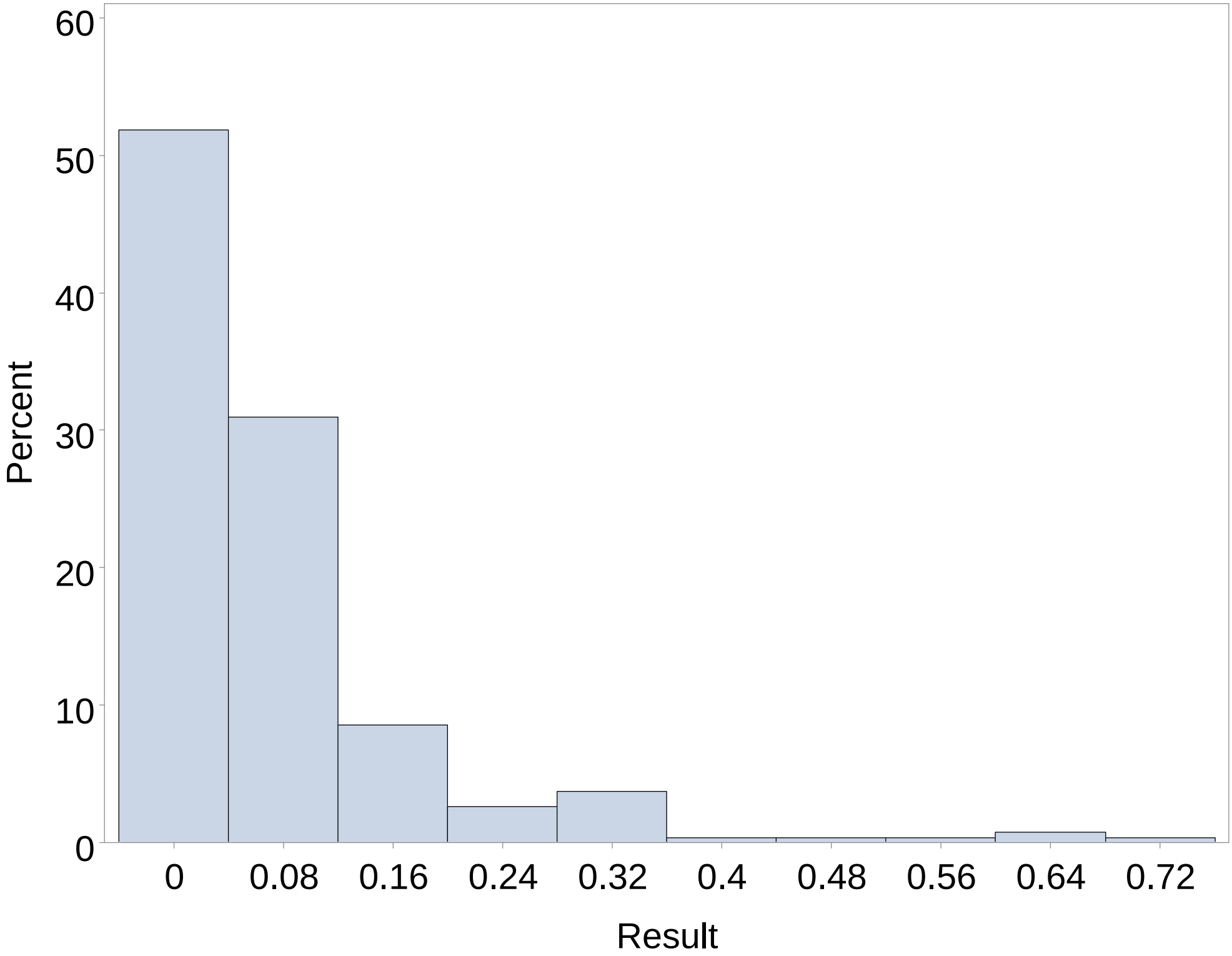
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.45589	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.727
99%	0.610
95%	0.320
90%	0.177
75% Q3	0.087
50% Median	0.036
25% Q1	0.010
10%	0.008
5%	0.006
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	40946	0.496	40890
0.006	40945	0.535	40891
0.006	40944	0.610	40878
0.006	40943	0.640	40892
0.006	40941	0.727	40997


60
50
40
30
20
10
0
Percent
0
0.08
0.16
0.24
0.32
0.4
0.48
0.56
0.64
0.72
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	0.0552397	**Sum Observations**	14.749
Std Deviation	0.07897013	**Variance**	0.00623628
Skewness	6.23008359	**Kurtosis**	62.7000144
Uncorrected SS	2.473581	**Corrected SS**	1.65885066
Coeff Variation	142.959004	**Std Error Mean**	0.00483289

Basic Statistical Measures			
Location		**Variability**	
Mean	0.055240	**Std Deviation**	0.07897
Median	0.030000	**Variance**	0.00624
Mode	0.008000	**Range**	0.94400
		Interquartile Range	0.06500

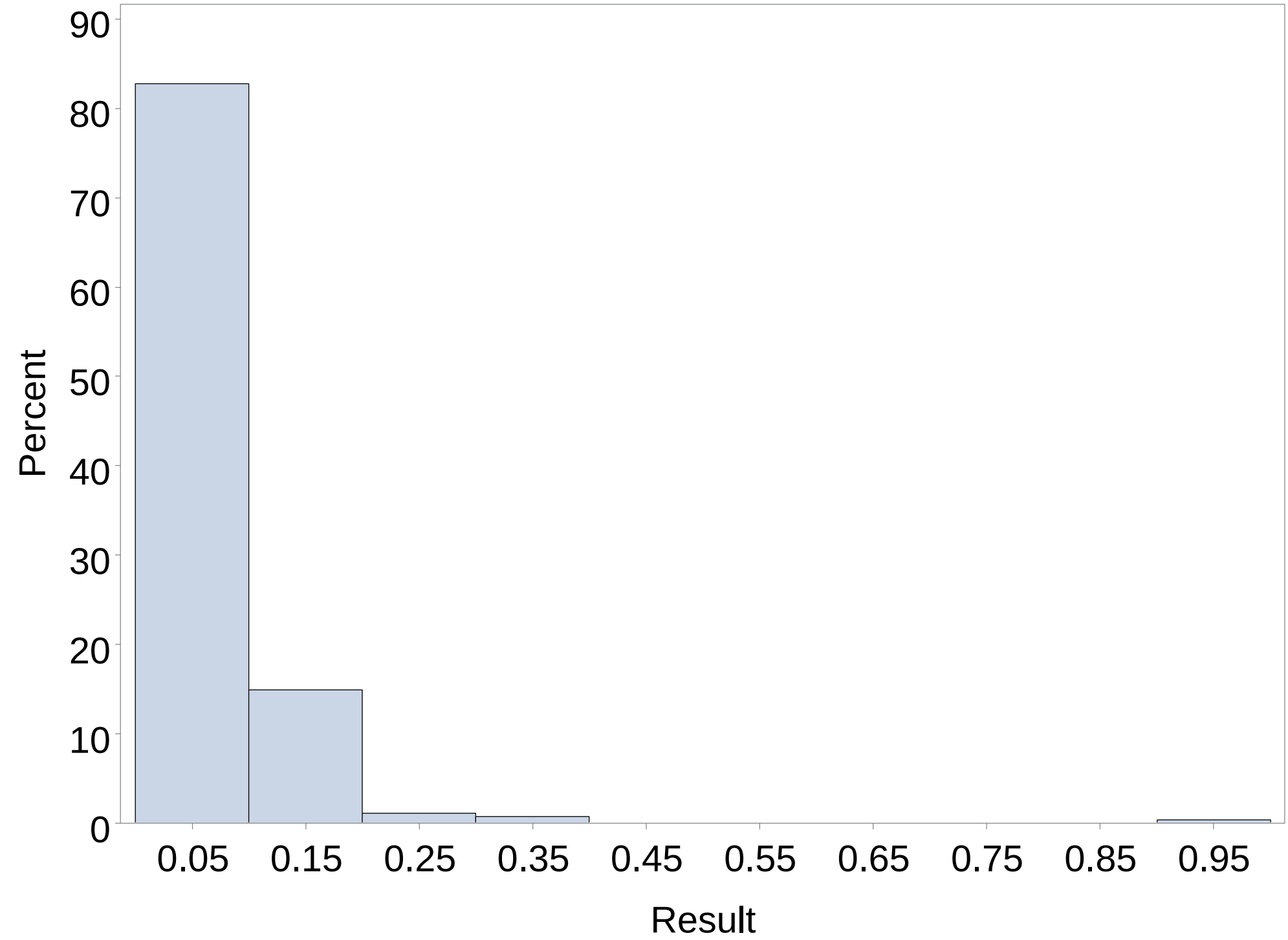
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.42994	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.950
99%	0.326
95%	0.160
90%	0.132
75% Q3	0.075
50% Median	0.030
25% Q1	0.010
10%	0.008
5%	0.006
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	41213	0.262	41361
0.006	41212	0.292	41158
0.006	41211	0.326	41350
0.006	41210	0.368	41261
0.006	41208	0.950	41145


Parameter=Ammonia/Ammonium (mg/L) River Kilometer=6.6 Level=Surface
Percent
90
80
70
60
50
40
30
20
10
0
0.05
0.15
0.25
0.35
0.45
0.55
0.65
0.75
0.85
0.95
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	0.06179926	**Sum Observations**	16.624
Std Deviation	0.08959892	**Variance**	0.00802797
Skewness	5.36846829	**Kurtosis**	43.3767632
Uncorrected SS	3.178846	**Corrected SS**	2.15149516
Coeff Variation	144.98382	**Std Error Mean**	0.00546294

Basic Statistical Measures			
Location		**Variability**	
Mean	0.061799	**Std Deviation**	0.08960
Median	0.039000	**Variance**	0.00803
Mode	0.010000	**Range**	0.95400
		Interquartile Range	0.07000

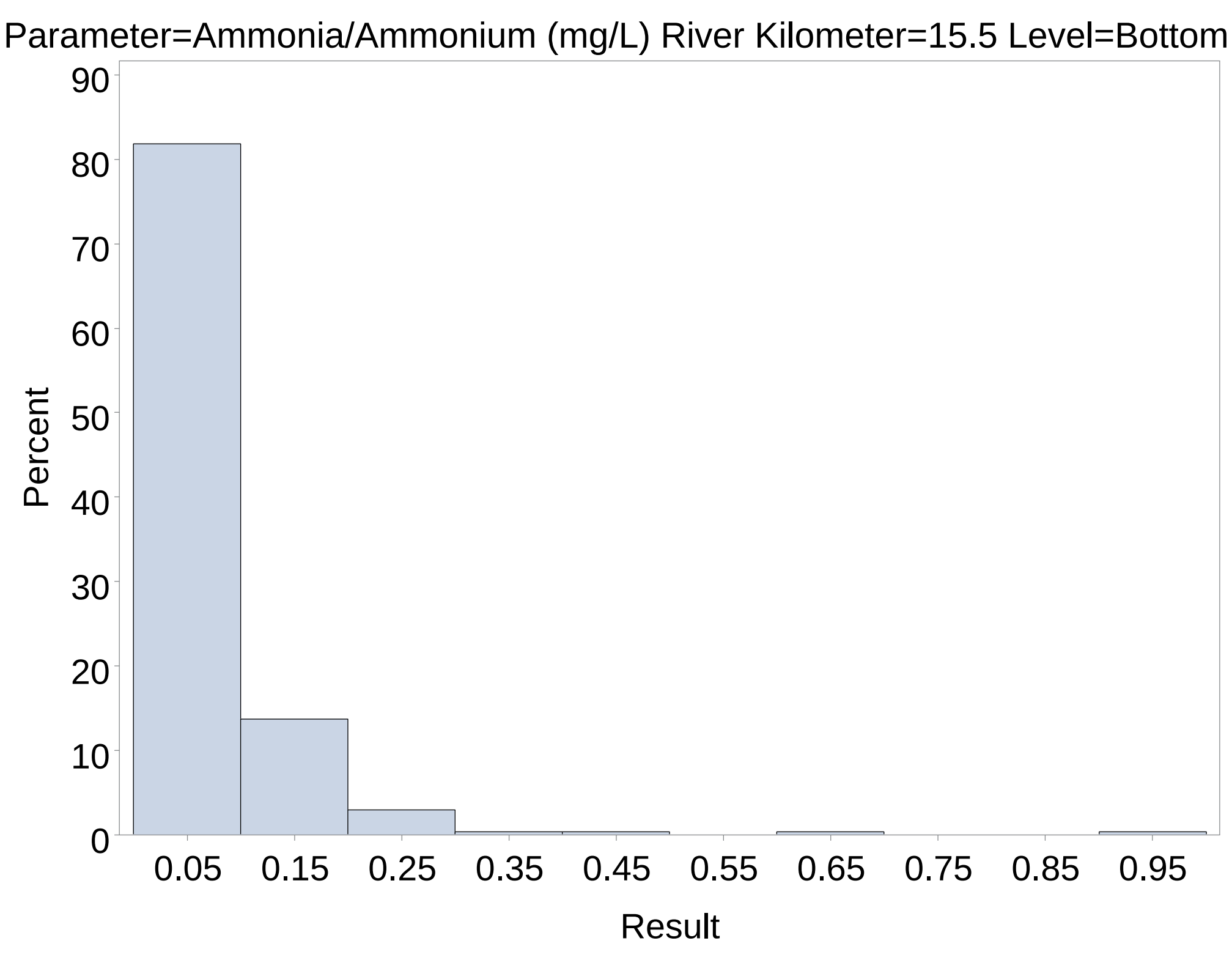
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.31245	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.960
99%	0.438
95%	0.189
90%	0.140
75% Q3	0.080
50% Median	0.039
25% Q1	0.010
10%	0.008
5%	0.006
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	41505	0.290	41619
0.006	41481	0.375	41495
0.006	41480	0.438	41517
0.006	41479	0.612	41522
0.006	41478	0.960	41413


Parameter=Ammonia/Ammonium (mg/L) River Kilometer=15.5 Level=Bottom
Percent
90
80
70
60
50
40
30
20
10
0
0.05
0.15
0.25
0.35
0.45
0.55
0.65
0.75
0.85
0.95
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	0.0590855	**Sum Observations**	15.894
Std Deviation	0.1182807	**Variance**	0.01399032
Skewness	10.3954915	**Kurtosis**	139.229794
Uncorrected SS	4.688512	**Corrected SS**	3.74940703
Coeff Variation	200.185662	**Std Error Mean**	0.0072117

Basic Statistical Measures			
Location		**Variability**	
Mean	0.059086	**Std Deviation**	0.11828
Median	0.032000	**Variance**	0.01399
Mode	0.008000	**Range**	1.69400
		Interquartile Range	0.06200

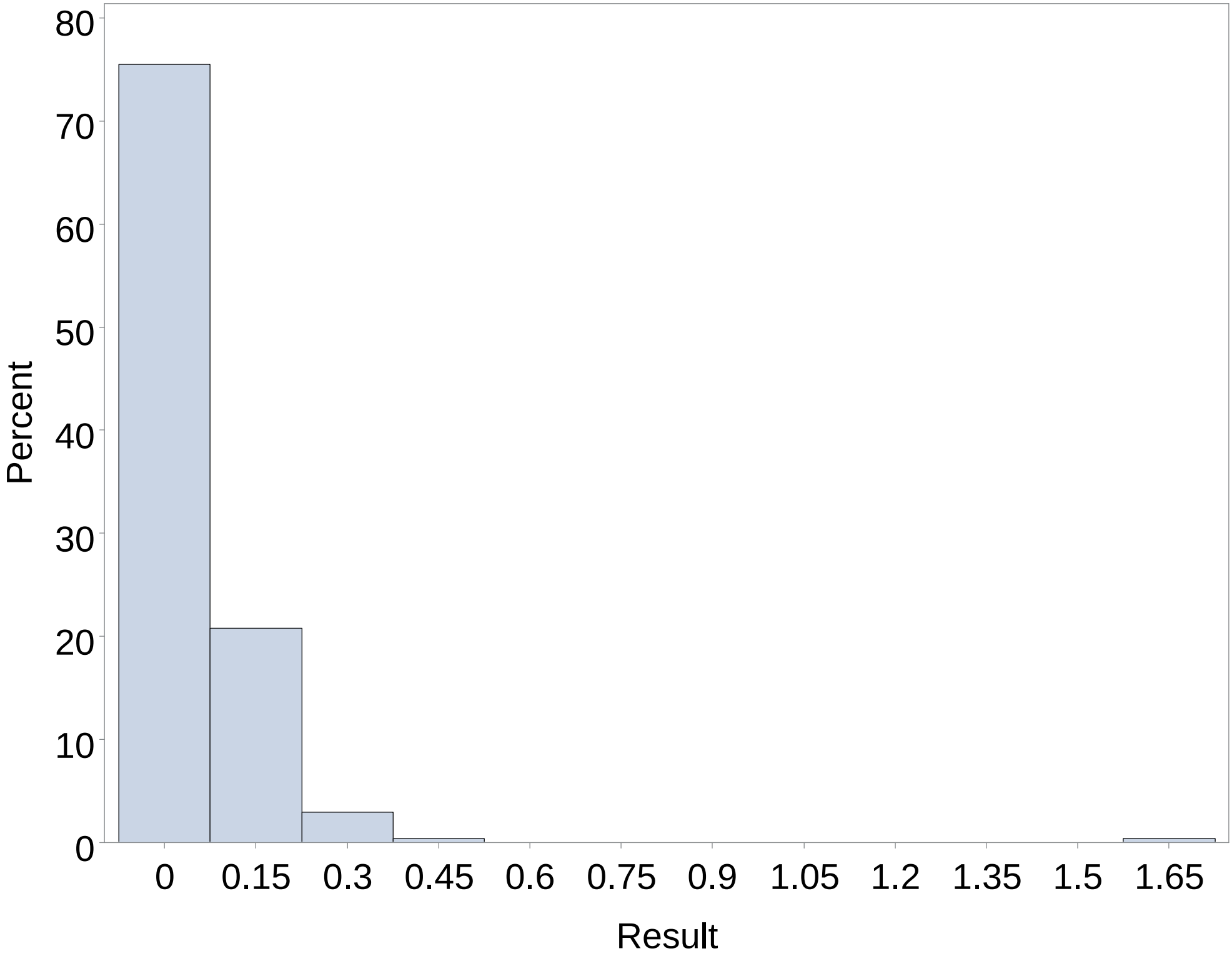
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.193004	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.700
99%	0.360
95%	0.171
90%	0.122
75% Q3	0.072
50% Median	0.032
25% Q1	0.010
10%	0.008
5%	0.007
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	41750	0.320	41764
0.006	41749	0.348	41785
0.006	41748	0.360	41682
0.006	41745	0.422	41786
0.006	41744	1.700	41663


80
70
60
50
40
30
20
10
0
Percent
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
1.5
1.65
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	0.04995896	**Sum Observations**	13.389
Std Deviation	0.05314155	**Variance**	0.00282402
Skewness	3.52668398	**Kurtosis**	24.4862126
Uncorrected SS	1.422915	**Corrected SS**	0.75401455
Coeff Variation	106.370423	**Std Error Mean**	0.00324614

Basic Statistical Measures			
Location		**Variability**	
Mean	0.049959	**Std Deviation**	0.05314
Median	0.036000	**Variance**	0.00282
Mode	0.008000	**Range**	0.52000
		Interquartile Range	0.06000

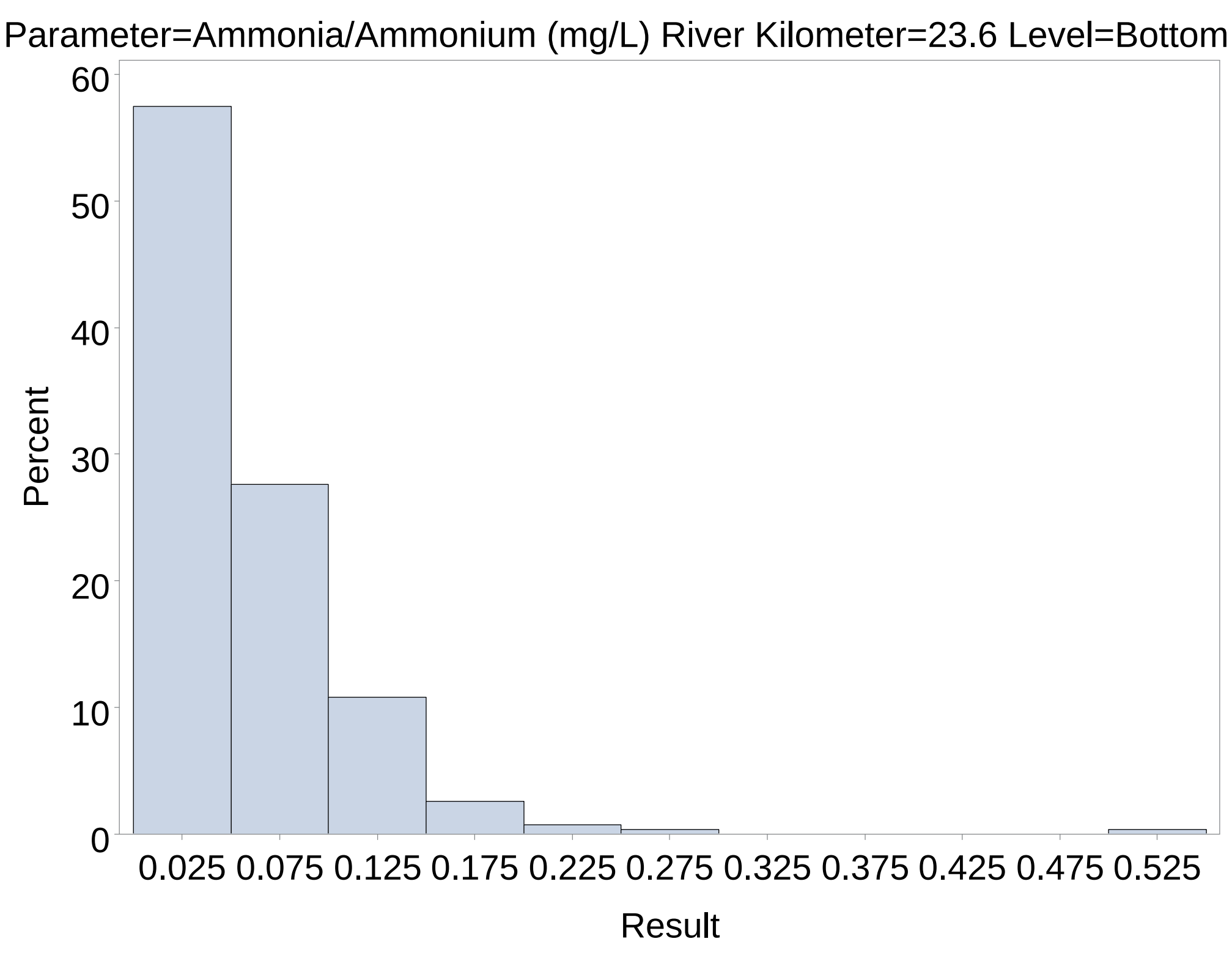
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.39028	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.526
99%	0.246
95%	0.129
90%	0.110
75% Q3	0.070
50% Median	0.036
25% Q1	0.010
10%	0.008
5%	0.006
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	42021	0.176	42153
0.006	42018	0.208	42032
0.006	42017	0.246	42030
0.006	42016	0.256	42156
0.006	42012	0.526	42035


Parameter=Ammonia/Ammonium (mg/L) River Kilometer=23.6 Level=Bottom
60
50
40
30
20
10
0
Percent
0.025 0.075 0.125 0.175 0.225 0.275 0.325 0.375 0.425 0.475 0.525
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	0.04942379	**Sum Observations**	13.295
Std Deviation	0.050287	**Variance**	0.00252878
Skewness	1.99944826	**Kurtosis**	6.22270613
Uncorrected SS	1.334803	**Corrected SS**	0.67771369
Coeff Variation	101.746545	**Std Error Mean**	0.00306605

Basic Statistical Measures			
Location		**Variability**	
Mean	0.049424	**Std Deviation**	0.05029
Median	0.035000	**Variance**	0.00253
Mode	0.008000	**Range**	0.34600
		Interquartile Range	0.05900

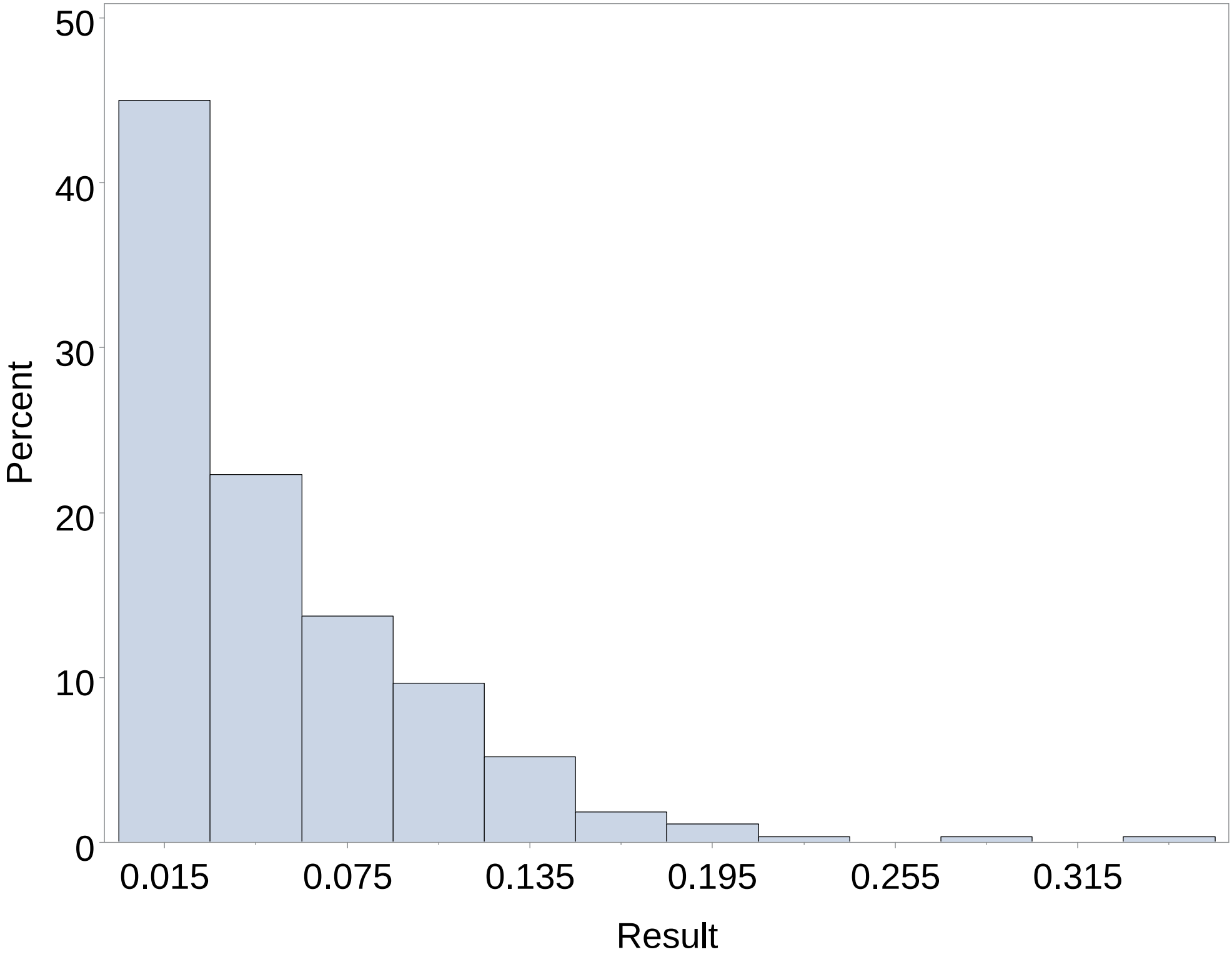
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.11968	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.352
99%	0.211
95%	0.145
90%	0.116
75% Q3	0.069
50% Median	0.035
25% Q1	0.010
10%	0.008
5%	0.006
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	42311	0.190	42422
0.006	42287	0.204	42295
0.006	42286	0.211	42297
0.006	42285	0.283	42425
0.006	42284	0.352	42301


50
40
30
20
10
0
Percent
0.015
0.075
0.135
0.195
0.255
0.315
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	0.04922097	**Sum Observations**	13.142
Std Deviation	0.05956364	**Variance**	0.00354783
Skewness	4.7526262	**Kurtosis**	40.5370814
Uncorrected SS	1.590584	**Corrected SS**	0.94372196
Coeff Variation	121.012717	**Std Error Mean**	0.00364524

Basic Statistical Measures			
Location		**Variability**	
Mean	0.049221	**Std Deviation**	0.05956
Median	0.033000	**Variance**	0.00355
Mode	0.008000	**Range**	0.64900
		Interquartile Range	0.06000

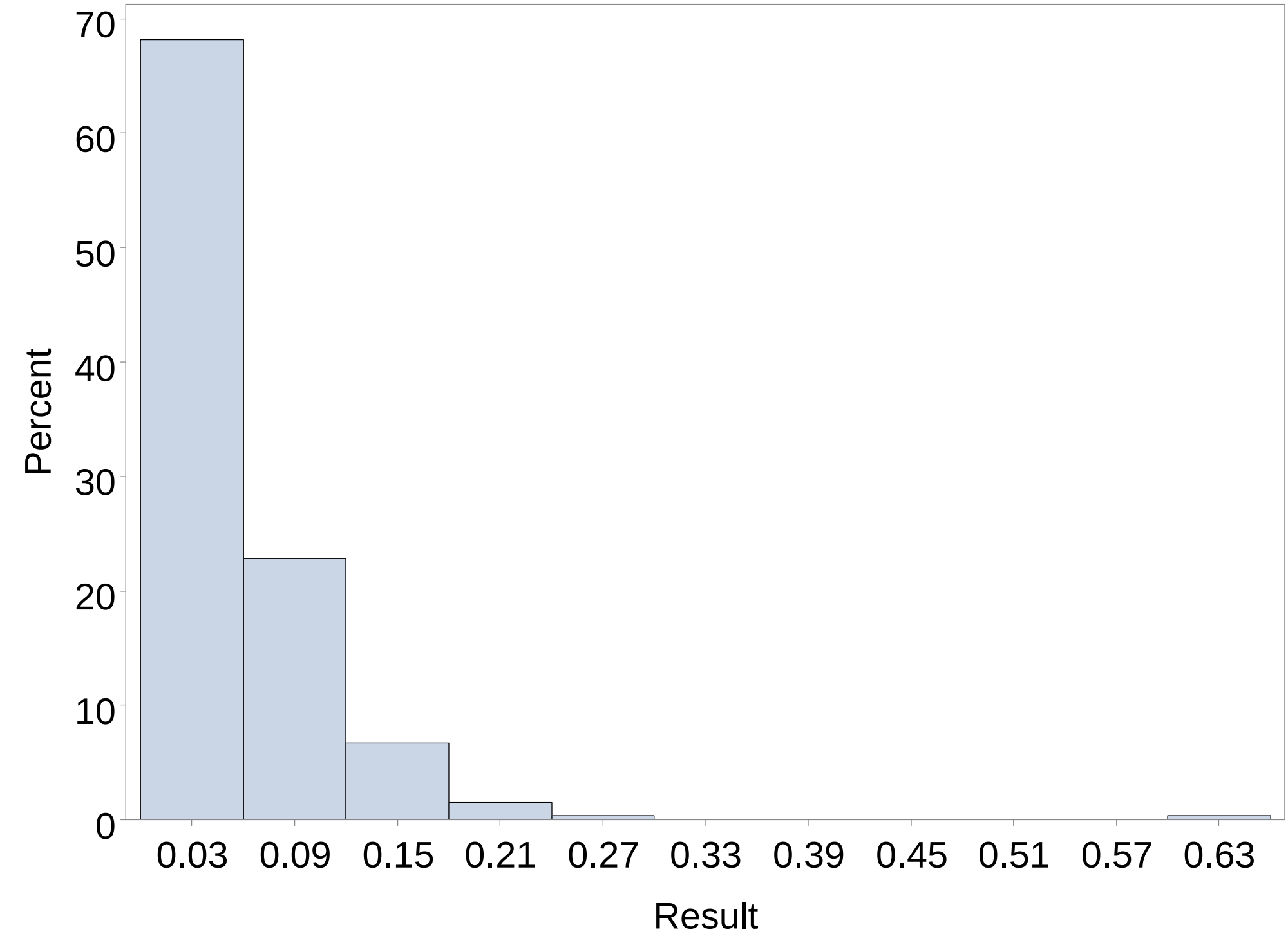
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.50282	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.655
99%	0.230
95%	0.150
90%	0.110
75% Q3	0.070
50% Median	0.033
25% Q1	0.010
10%	0.008
5%	0.006
1%	0.006
0% Min	0.006

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	42558	0.196	42564
0.006	42555	0.212	42569
0.006	42554	0.230	42486
0.006	42553	0.285	42692
0.006	42552	0.655	42596


Parameter=Ammonia/Ammonium (mg/L) River Kilometer=30.7 Level=Bottom
Percent
70
60
50
40
30
20
10
0
0.03
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
0.57
0.63
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	0.05076866	**Sum Observations**	13.606
Std Deviation	0.06540366	**Variance**	0.00427764
Skewness	4.37097611	**Kurtosis**	28.3485305
Uncorrected SS	1.832888	**Corrected SS**	1.14212966
Coeff Variation	128.826854	**Std Error Mean**	0.00399516

Basic Statistical Measures			
Location		**Variability**	
Mean	0.050769	**Std Deviation**	0.06540
Median	0.030000	**Variance**	0.00428
Mode	0.008000	**Range**	0.60400
		Interquartile Range	0.05650

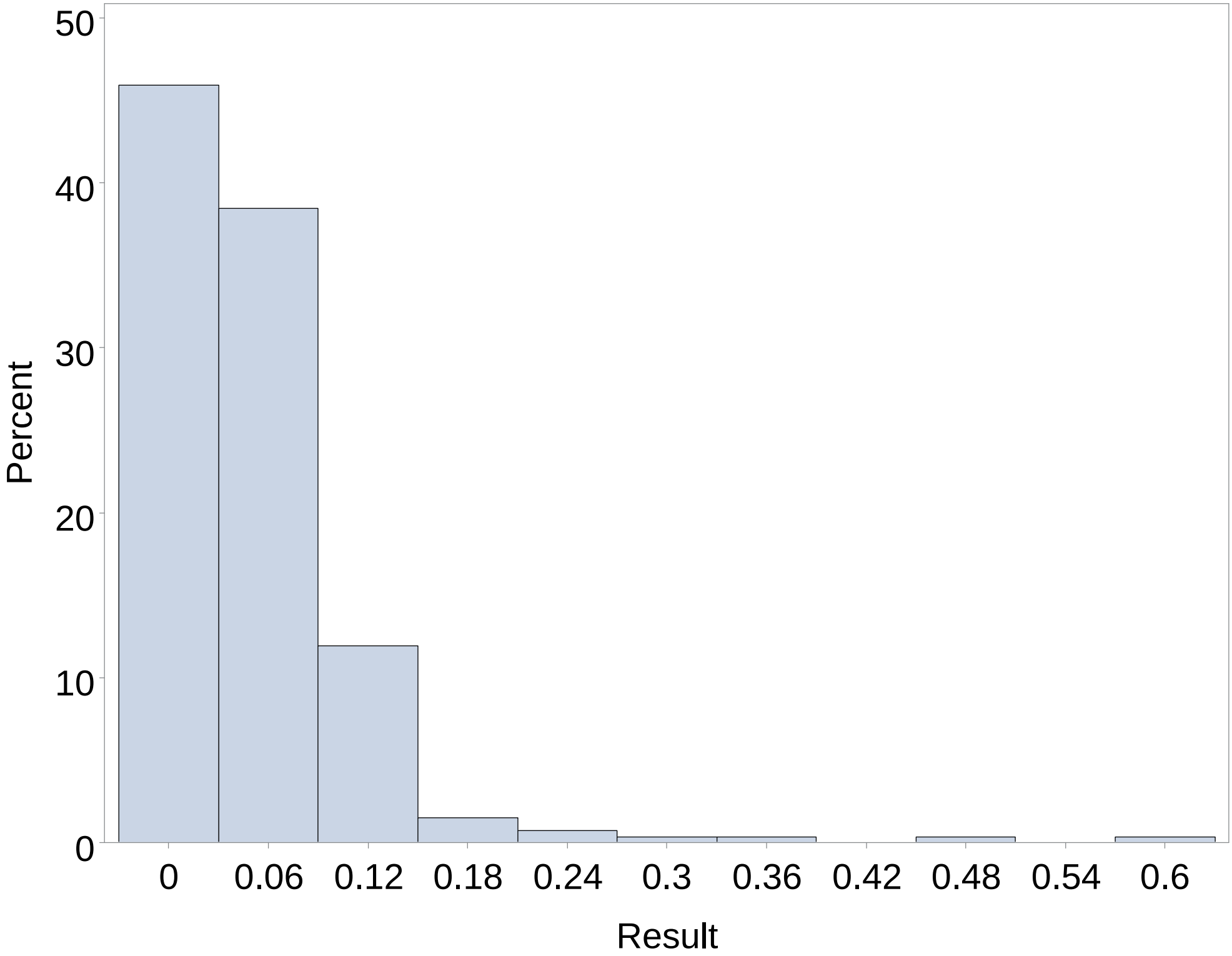
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.70753	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.6100
99%	0.3510
95%	0.1410
90%	0.1090
75% Q3	0.0665
50% Median	0.0300
25% Q1	0.0100
10%	0.0080
5%	0.0060
1%	0.0060
0% Min	0.0060

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Ammonia/Ammonium (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.006	42826	0.240	42754
0.006	42823	0.296	42960
0.006	42822	0.351	42865
0.006	42821	0.485	42840
0.006	42820	0.610	42864


50
40
30
20
10
0
Percent
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	0.52497736	**Sum Observations**	139.119
Std Deviation	0.39546804	**Variance**	0.15639497
Skewness	7.58362136	**Kurtosis**	90.4804126
Uncorrected SS	114.322597	**Corrected SS**	41.2882719
Coeff Variation	75.3304941	**Std Error Mean**	0.02429341

Basic Statistical Measures			
Location		**Variability**	
Mean	0.524977	**Std Deviation**	0.39547
Median	0.490000	**Variance**	0.15639
Mode	0.360000	**Range**	5.42000
		Interquartile Range	0.30800

Note: The mode displayed is the smallest of 2 modes with a count of 4.

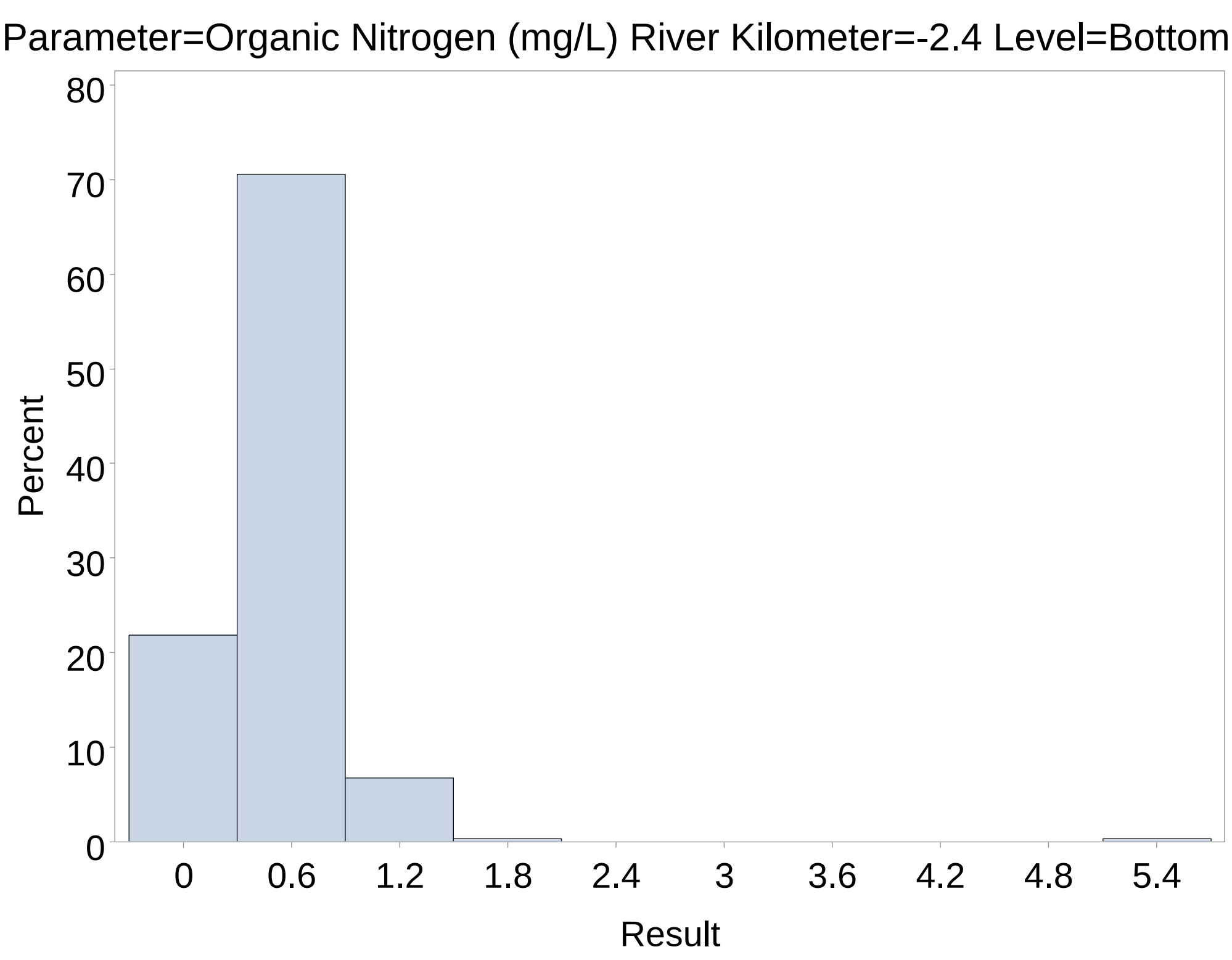
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.60987	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.440
99%	1.419
95%	0.972
90%	0.840
75% Q3	0.639
50% Median	0.490
25% Q1	0.331
10%	0.210
5%	0.170
1%	0.068
0% Min	0.020

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.020	43097	1.304	43070
0.060	43108	1.358	43033
0.068	43073	1.419	43034
0.095	43099	1.894	43078
0.100	43100	5.440	43058


Parameter=Organic Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	0.64046415	**Sum Observations**	169.723
Std Deviation	0.45000357	**Variance**	0.20250321
Skewness	2.42193684	**Kurtosis**	10.4330798
Uncorrected SS	162.162345	**Corrected SS**	53.4608479
Coeff Variation	70.262101	**Std Error Mean**	0.0276435

Basic Statistical Measures			
Location		**Variability**	
Mean	0.640464	**Std Deviation**	0.45000
Median	0.526000	**Variance**	0.20250
Mode	0.330000	**Range**	3.76700
		Interquartile Range	0.45000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

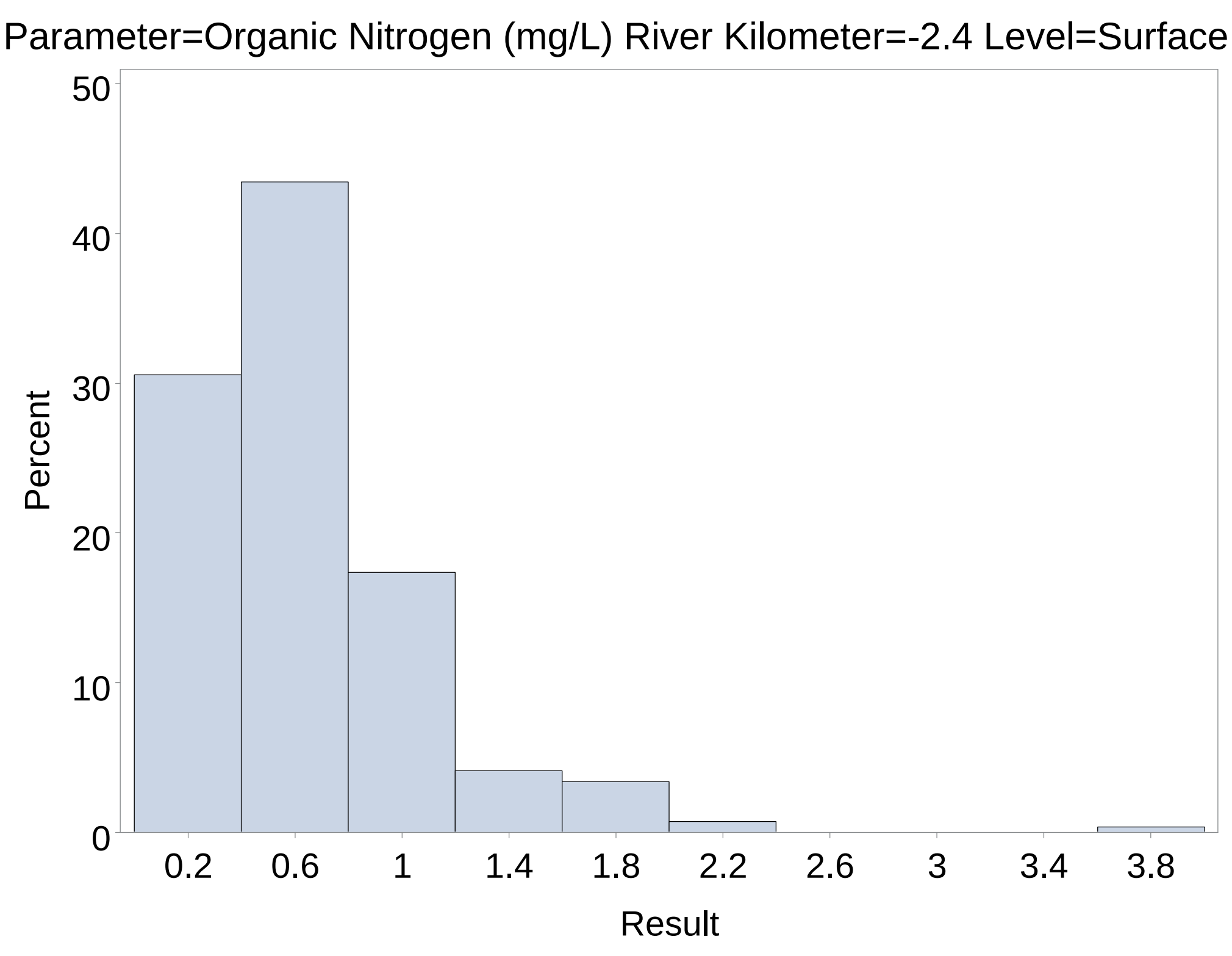
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.16871	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.830
99%	2.159
95%	1.575
90%	1.092
75% Q3	0.810
50% Median	0.526
25% Q1	0.360
10%	0.242
5%	0.155
1%	0.070
0% Min	0.063

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.063	43373	1.942	43442
0.069	43386	1.974	43298
0.070	43331	2.159	43477
0.074	43385	2.322	43451
0.082	43374	3.830	43323


Parameter=Organic Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface
50
40
30
20
10
0
Percent
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	266	**Sum Weights**	266
Mean	0.68784962	**Sum Observations**	182.968
Std Deviation	0.31547169	**Variance**	0.09952238
Skewness	1.45515666	**Kurtosis**	4.43570494
Uncorrected SS	152.227902	**Corrected SS**	26.373432
Coeff Variation	45.8634671	**Std Error Mean**	0.01934281

Basic Statistical Measures			
Location		**Variability**	
Mean	0.687850	**Std Deviation**	0.31547
Median	0.641000	**Variance**	0.09952
Mode	0.620000	**Range**	2.28800
		Interquartile Range	0.34000

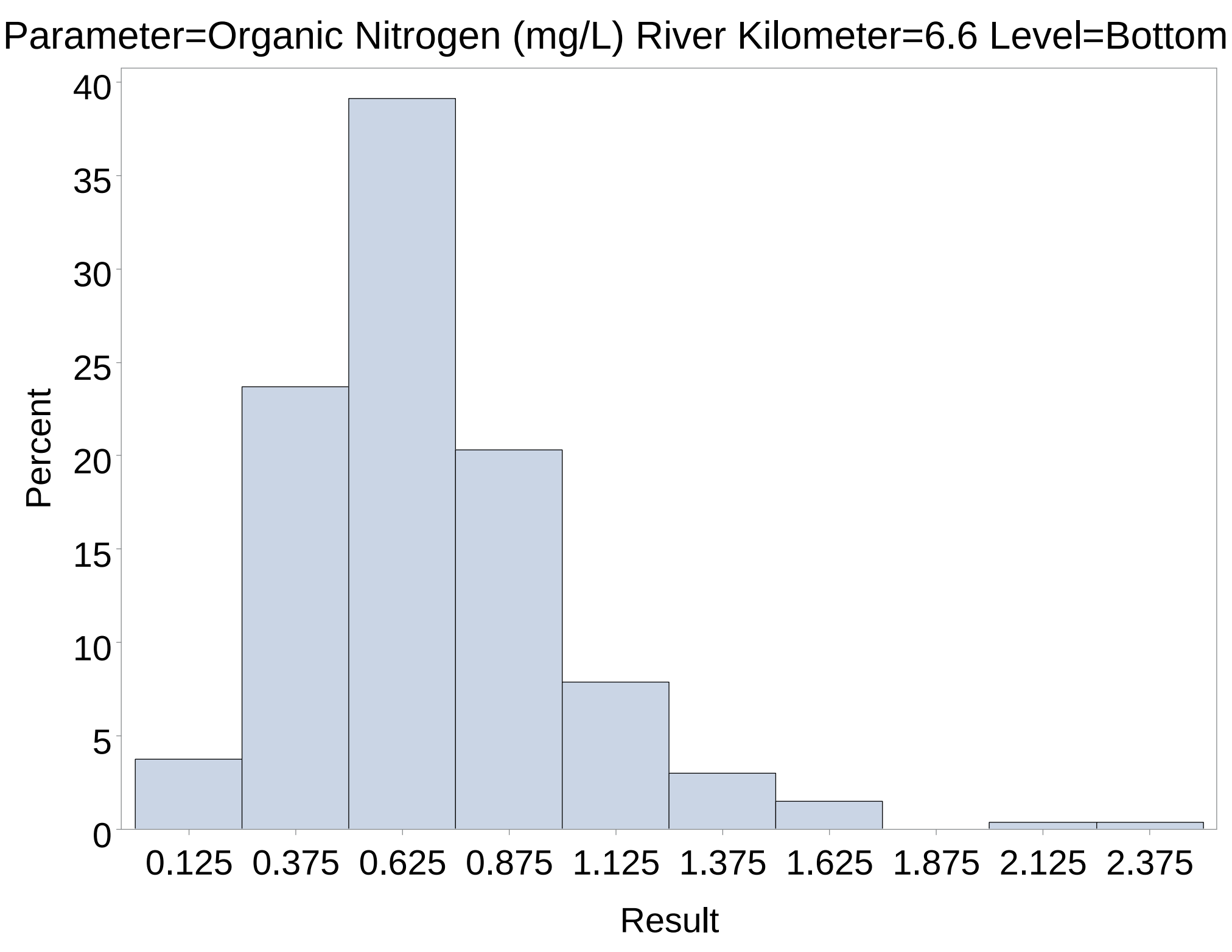
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.561	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.384
99%	1.664
95%	1.275
90%	1.103
75% Q3	0.820
50% Median	0.641
25% Q1	0.480
10%	0.342
5%	0.290
1%	0.138
0% Min	0.096

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.096	43640	1.564	43601
0.133	43628	1.574	43564
0.138	43639	1.664	43672
0.166	43604	2.148	43609
0.180	43630	2.384	43607


Parameter=Organic Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0.125
0.375
0.625
0.875
1.125
1.375
1.625
1.875
2.125
2.375
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	0.76216226	**Sum Observations**	201.973
Std Deviation	0.38213012	**Variance**	0.14602343
Skewness	1.15023462	**Kurtosis**	1.81469487
Uncorrected SS	192.486385	**Corrected SS**	38.550186
Coeff Variation	50.1376337	**Std Error Mean**	0.02347407

Basic Statistical Measures			
Location		**Variability**	
Mean	0.762162	**Std Deviation**	0.38213
Median	0.683000	**Variance**	0.14602
Mode	0.710000	**Range**	2.27200
		Interquartile Range	0.44000

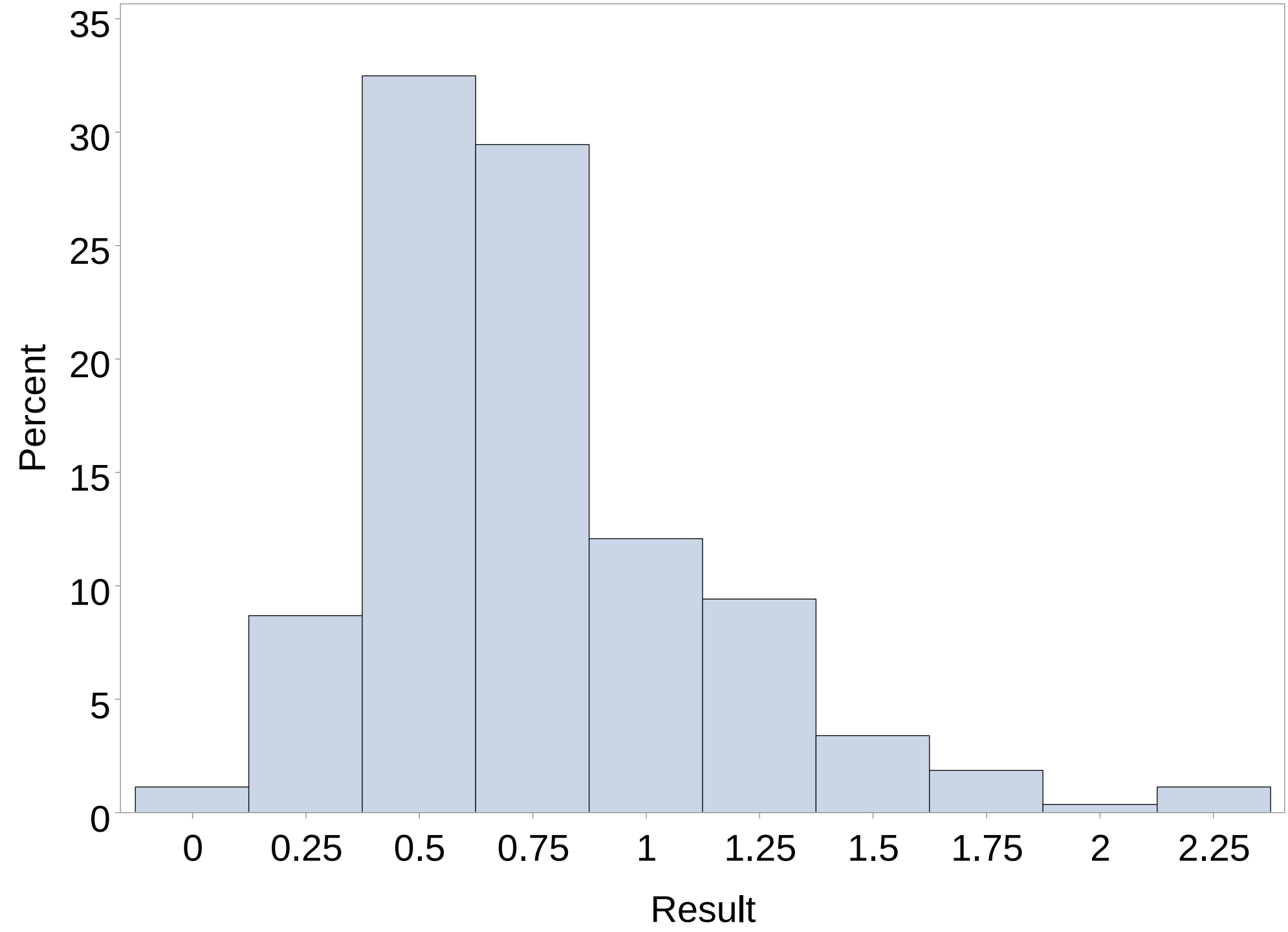
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.46827	**Pr > |t|**	<.0001
Sign	**M**	131.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17621.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.270
99%	2.136
95%	1.530
90%	1.266
75% Q3	0.960
50% Median	0.683
25% Q1	0.520
10%	0.376
5%	0.288
1%	0.115
0% Min	-0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	43920	1.791	43831
0.094	43905	2.114	43935
0.115	43904	2.136	43829
0.133	43898	2.154	43874
0.159	43893	2.270	43865


Parameter=Organic Nitrogen (mg/L) River Kilometer=6.6 Level=Surface
Percent
35
30
25
20
15
10
5
0
0
0.25
0.5
0.75
1
1.25
1.5
1.75
2
2.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	0.98418727	**Sum Observations**	262.778
Std Deviation	0.36246977	**Variance**	0.13138433
Skewness	0.54609648	**Kurtosis**	0.81688354
Uncorrected SS	293.570994	**Corrected SS**	34.9482326
Coeff Variation	36.8293496	**Std Error Mean**	0.02218279

Basic Statistical Measures			
Location		**Variability**	
Mean	0.984187	**Std Deviation**	0.36247
Median	0.920000	**Variance**	0.13138
Mode	0.640000	**Range**	2.40800
		Interquartile Range	0.48700

Note: The mode displayed is the smallest of 7 modes with a count of 3.

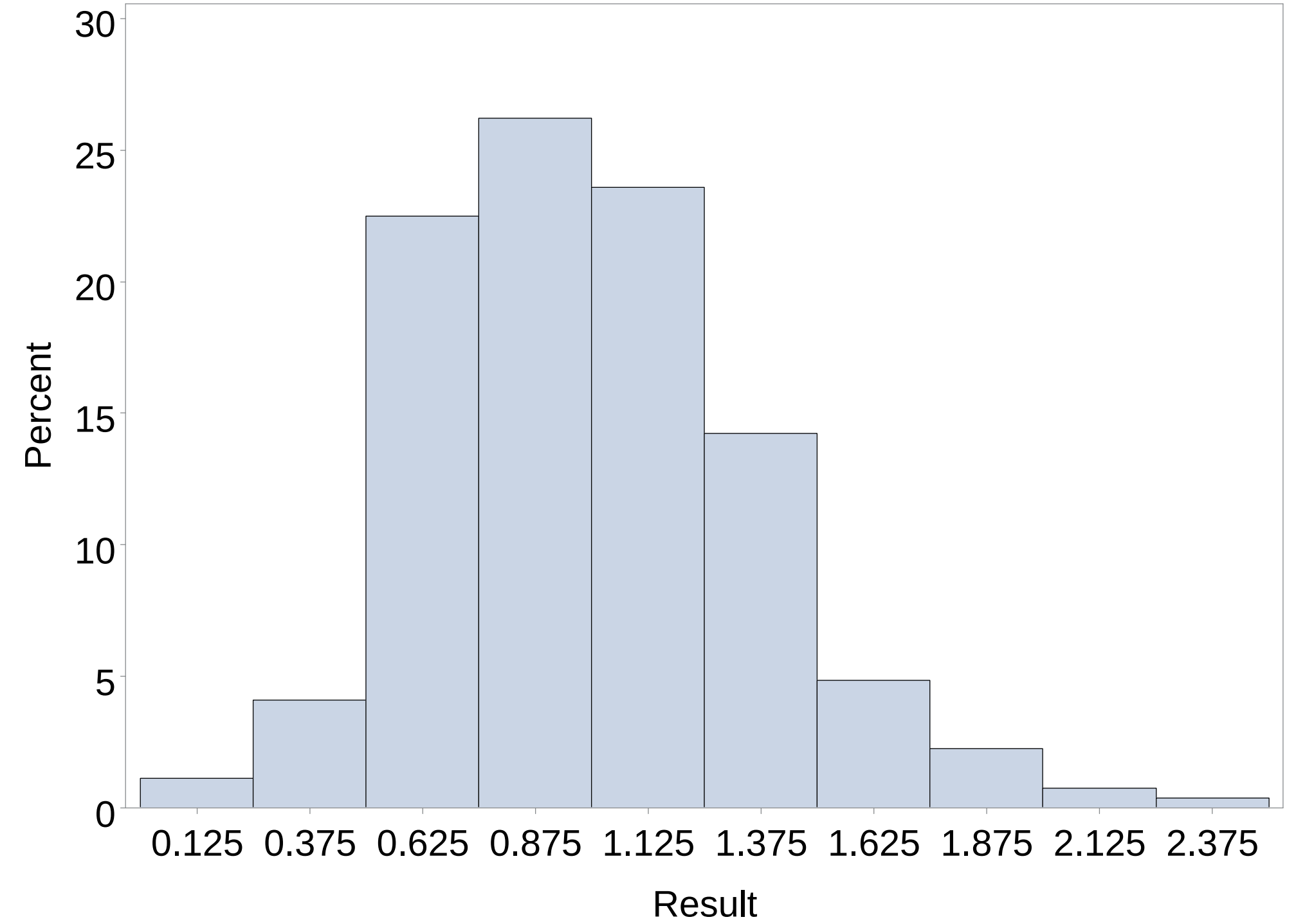
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.36716	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.424
99%	2.013
95%	1.620
90%	1.427
75% Q3	1.211
50% Median	0.920
25% Q1	0.724
10%	0.572
5%	0.492
1%	0.195
0% Min	0.016

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.016	44186	1.832	44275
0.105	44164	1.949	44096
0.195	44184	2.013	44256
0.257	44187	2.160	44131
0.258	44171	2.424	44144


Parameter=Organic Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom
30
25
20
15
10
5
0
Percent
0.125
0.375
0.625
0.875
1.125
1.375
1.625
1.875
2.125
2.375
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	1.0228839	**Sum Observations**	273.11
Std Deviation	0.49391285	**Variance**	0.24394991
Skewness	3.76946149	**Kurtosis**	30.6373523
Uncorrected SS	344.250496	**Corrected SS**	64.8906754
Coeff Variation	48.2863066	**Std Error Mean**	0.03022698

Basic Statistical Measures			
Location		**Variability**	
Mean	1.022884	**Std Deviation**	0.49391
Median	0.953000	**Variance**	0.24395
Mode	0.590000	**Range**	5.71800
		Interquartile Range	0.49900

Note: The mode displayed is the smallest of 10 modes with a count of 3.

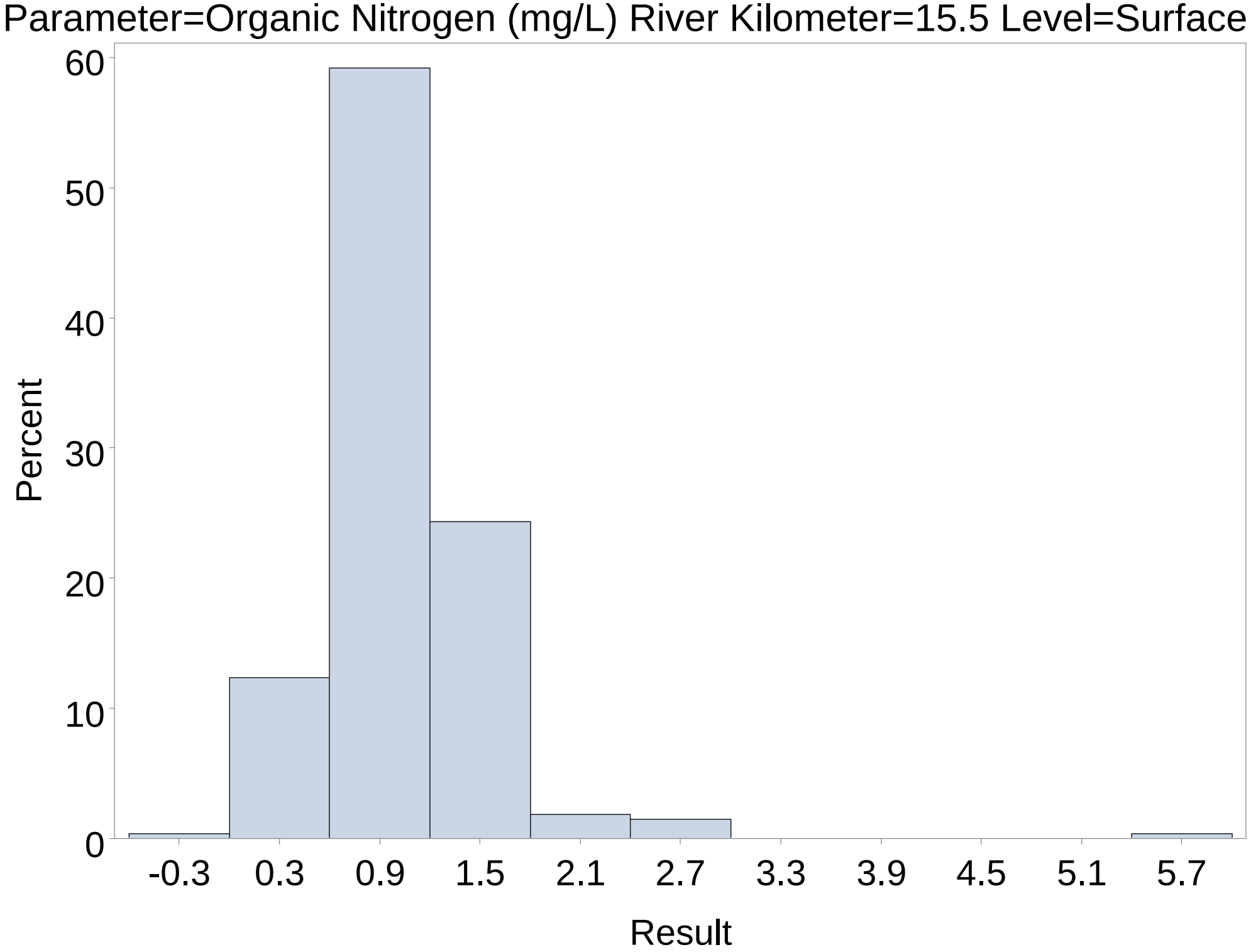
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.8401	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17888	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.700
99%	2.778
95%	1.650
90%	1.450
75% Q3	1.229
50% Median	0.953
25% Q1	0.730
10%	0.567
5%	0.456
1%	0.196
0% Min	-0.018

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.018	44453	2.490	44398
0.189	44454	2.582	44560
0.196	44431	2.778	44407
0.254	44438	2.800	44445
0.285	44404	5.700	44332


Parameter=Organic Nitrogen (mg/L) River Kilometer=15.5 Level=Surface
Percent
60
50
40
30
20
10
0
-0.3
0.3
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
5.7
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	1.01883396	**Sum Observations**	269.991
Std Deviation	0.36087645	**Variance**	0.13023181
Skewness	1.14491949	**Kurtosis**	3.25982445
Uncorrected SS	309.457199	**Corrected SS**	34.3811987
Coeff Variation	35.4205361	**Std Error Mean**	0.02216846

Basic Statistical Measures			
Location		**Variability**	
Mean	1.018834	**Std Deviation**	0.36088
Median	0.967000	**Variance**	0.13023
Mode	0.650000	**Range**	2.62700
		Interquartile Range	0.47000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

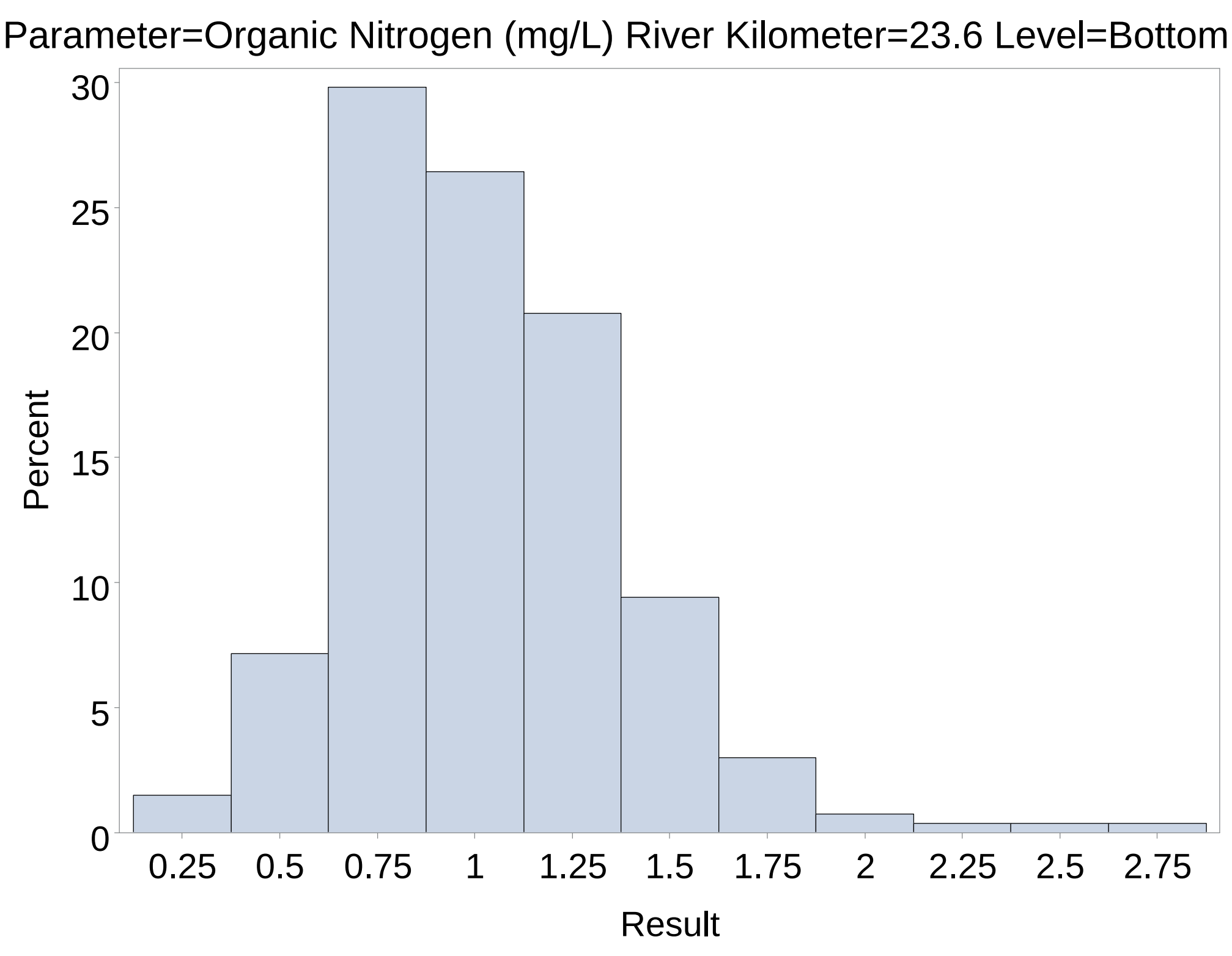
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.95871	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.841
99%	2.202
95%	1.598
90%	1.492
75% Q3	1.230
50% Median	0.967
25% Q1	0.760
10%	0.640
5%	0.540
1%	0.314
0% Min	0.214

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.214	44768	1.940	44571
0.302	44719	2.070	44664
0.314	44703	2.202	44628
0.355	44706	2.624	44673
0.400	44704	2.841	44826


Parameter=Organic Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom
Percent
30
25
20
15
10
5
0
0.25
0.5
0.75
1
1.25
1.5
1.75
2
2.25
2.5
2.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	1.00244944	**Sum Observations**	267.654
Std Deviation	0.32574245	**Variance**	0.10610814
Skewness	0.37100028	**Kurtosis**	0.17391796
Uncorrected SS	296.534368	**Corrected SS**	28.2247661
Coeff Variation	32.4946513	**Std Error Mean**	0.01993511

Basic Statistical Measures			
Location		**Variability**	
Mean	1.002449	**Std Deviation**	0.32574
Median	0.970000	**Variance**	0.10611
Mode	0.770000	**Range**	1.91800
		Interquartile Range	0.45000

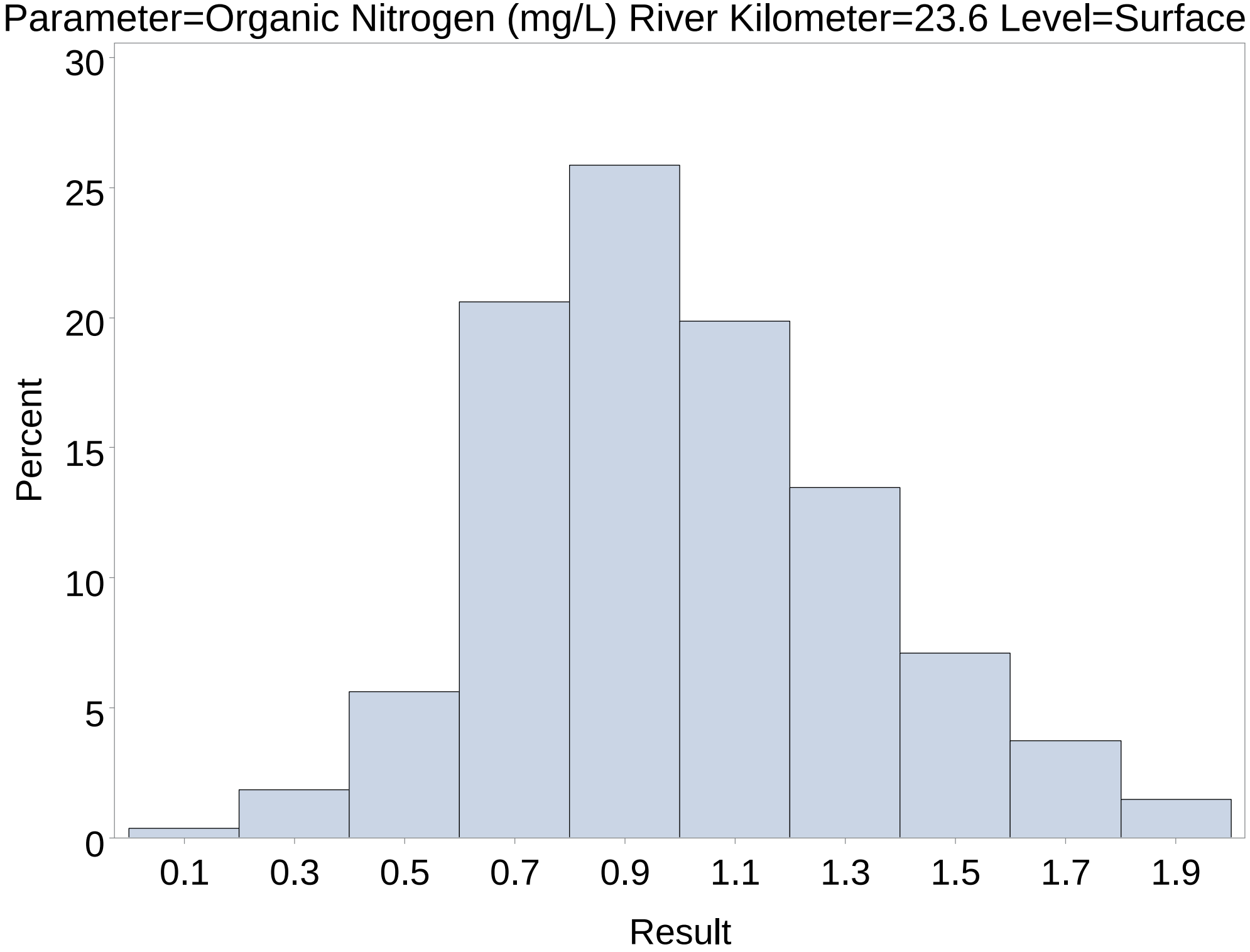
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.28561	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.960
99%	1.920
95%	1.620
90%	1.422
75% Q3	1.220
50% Median	0.970
25% Q1	0.770
10%	0.620
5%	0.529
1%	0.324
0% Min	0.042

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.042	44896	1.794	45037
0.318	44970	1.810	45084
0.324	44973	1.920	44930
0.358	44986	1.945	44894
0.372	45035	1.960	44836


Parameter=Organic Nitrogen (mg/L) River Kilometer=23.6 Level=Surface
Percent
30
25
20
15
10
5
0
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	1.01490189	**Sum Observations**	268.949
Std Deviation	0.38843015	**Variance**	0.15087798
Skewness	1.69663444	**Kurtosis**	7.65856216
Uncorrected SS	312.788635	**Corrected SS**	39.8317874
Coeff Variation	38.27268	**Std Error Mean**	0.02386107

Basic Statistical Measures			
Location		**Variability**	
Mean	1.014902	**Std Deviation**	0.38843
Median	0.960000	**Variance**	0.15088
Mode	0.670000	**Range**	3.25700
		Interquartile Range	0.50000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

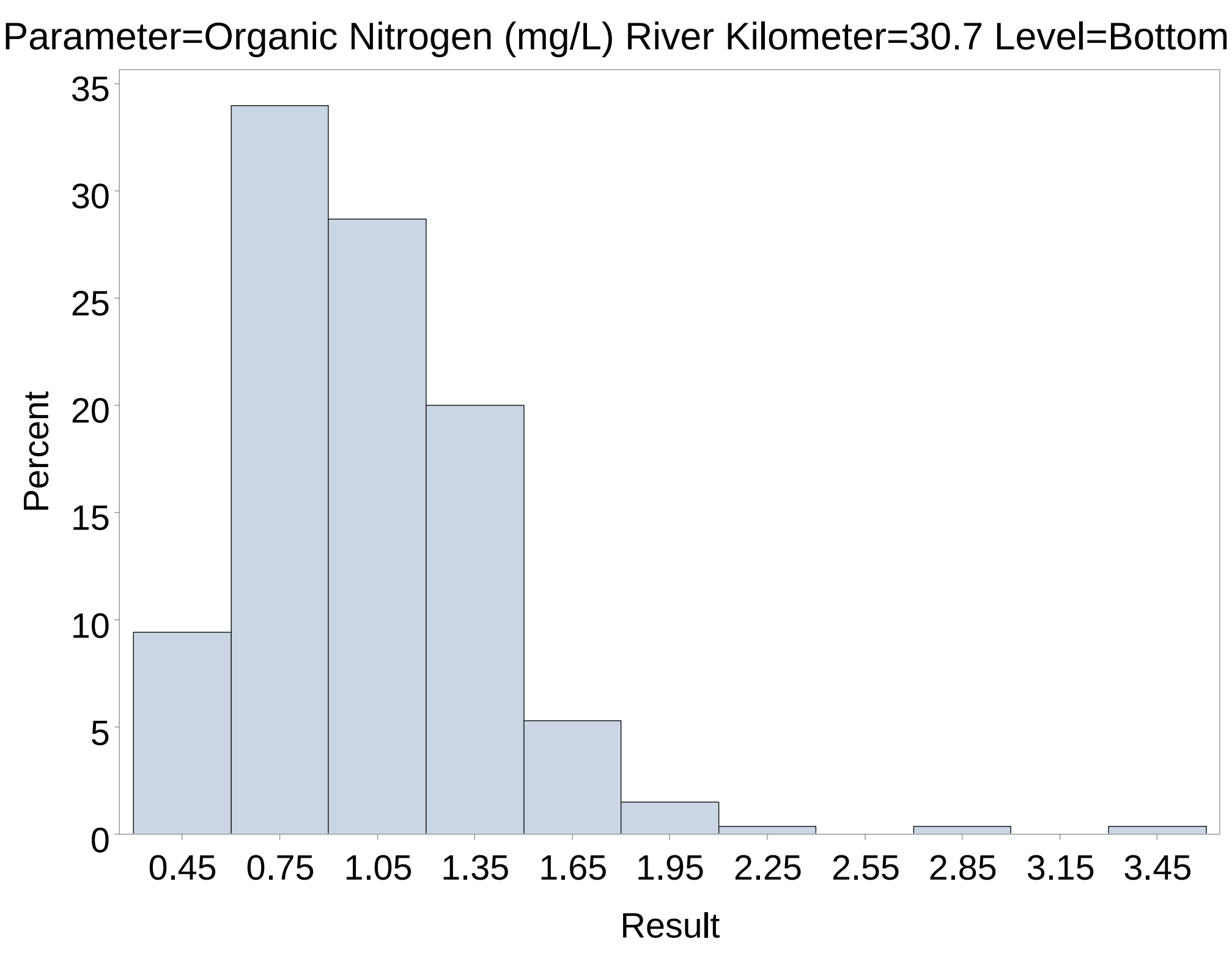
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.53379	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.577
99%	2.170
95%	1.612
90%	1.452
75% Q3	1.242
50% Median	0.960
25% Q1	0.742
10%	0.600
5%	0.528
1%	0.334
0% Min	0.320

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.320	45236	1.890	45104
0.327	45235	2.050	45196
0.334	45224	2.170	45103
0.335	45239	2.774	45205
0.420	45147	3.577	45358


Parameter=Organic Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
3.45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	266	**Sum Weights**	266
Mean	1.01241353	**Sum Observations**	269.302
Std Deviation	0.41201679	**Variance**	0.16975784
Skewness	2.96816197	**Kurtosis**	21.3358302
Uncorrected SS	317.630816	**Corrected SS**	44.9858265
Coeff Variation	40.6964918	**Std Error Mean**	0.02526237

Basic Statistical Measures			
Location		**Variability**	
Mean	1.012414	**Std Deviation**	0.41202
Median	0.950000	**Variance**	0.16976
Mode	0.760000	**Range**	4.32400
		Interquartile Range	0.51000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

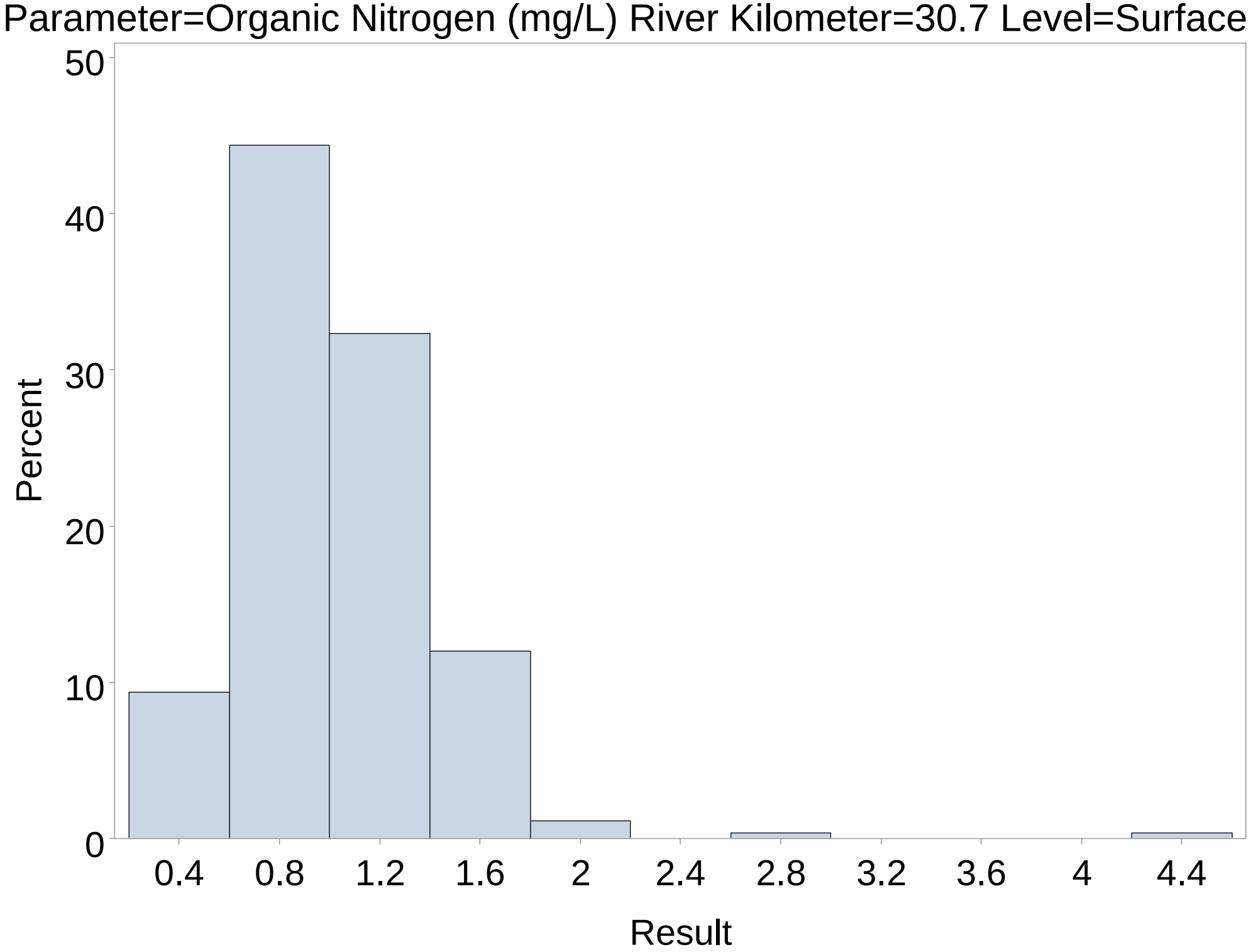
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	40.07595	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.582
99%	2.160
95%	1.570
90%	1.452
75% Q3	1.250
50% Median	0.950
25% Q1	0.740
10%	0.600
5%	0.520
1%	0.348
0% Min	0.258

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Organic Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.258	45502	1.803	45463
0.332	45505	2.060	45368
0.348	45490	2.160	45462
0.375	45503	2.803	45471
0.465	45501	4.582	45624


Parameter=Organic Nitrogen (mg/L) River Kilometer=30.7 Level=Surface
50
40
30
20
10
0
Percent
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
4.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	0.13451685	**Sum Observations**	35.916
Std Deviation	0.09803089	**Variance**	0.00961006
Skewness	1.84601461	**Kurtosis**	5.08834162
Uncorrected SS	7.387582	**Corrected SS**	2.55627467
Coeff Variation	72.8762872	**Std Error Mean**	0.00599939

Basic Statistical Measures			
Location		**Variability**	
Mean	0.134517	**Std Deviation**	0.09803
Median	0.106000	**Variance**	0.00961
Mode	0.110000	**Range**	0.62100
		Interquartile Range	0.11400

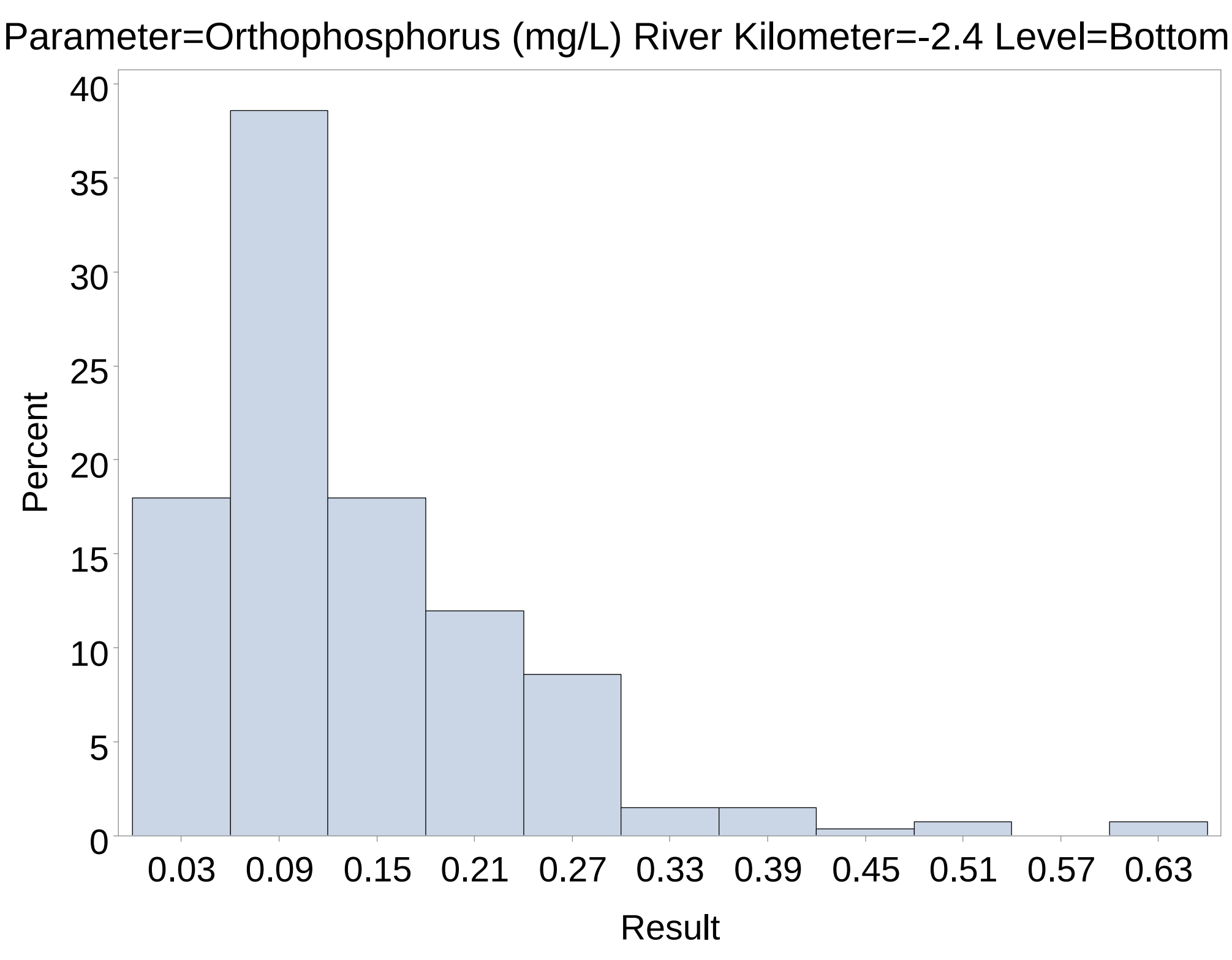
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.42174	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.631
99%	0.487
95%	0.298
90%	0.250
75% Q3	0.182
50% Median	0.106
25% Q1	0.068
10%	0.048
5%	0.030
1%	0.010
0% Min	0.010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	45767	0.442	45735
0.010	45690	0.480	45739
0.010	45689	0.487	45731
0.011	45769	0.628	45729
0.013	45783	0.631	45730


Parameter=Orthophosphorus (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0.03
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
0.57
0.63
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	0.16996255	**Sum Observations**	45.38
Std Deviation	0.2387388	**Variance**	0.05699622
Skewness	10.2341449	**Kurtosis**	137.882939
Uncorrected SS	22.873894	**Corrected SS**	15.1609936
Coeff Variation	140.465537	**Std Error Mean**	0.01461058

Basic Statistical Measures			
Location		**Variability**	
Mean	0.169963	**Std Deviation**	0.23874
Median	0.111000	**Variance**	0.05700
Mode	0.110000	**Range**	3.46800
		Interquartile Range	0.15000

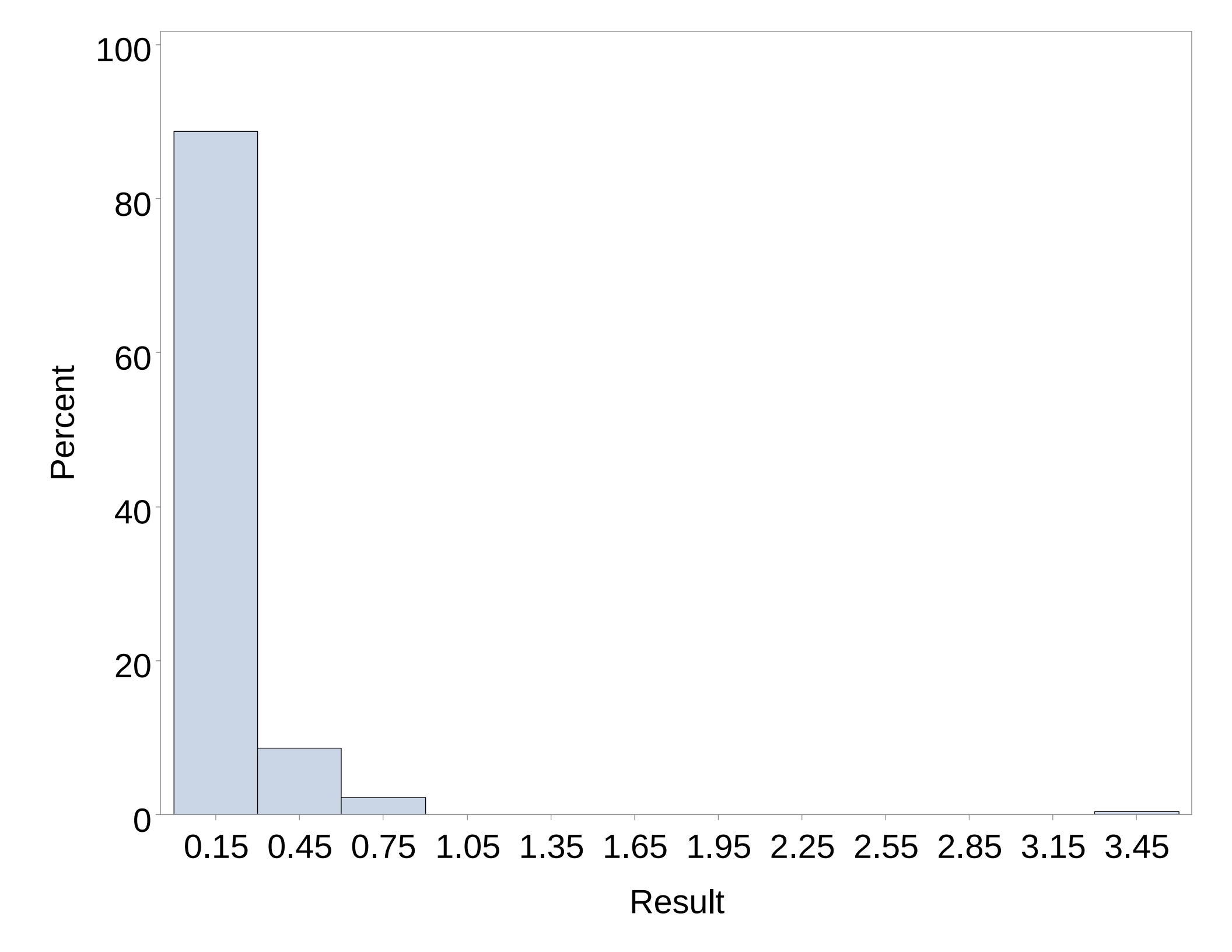
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.63284	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.470
99%	0.700
95%	0.390
90%	0.316
75% Q3	0.220
50% Median	0.111
25% Q1	0.070
10%	0.047
5%	0.030
1%	0.010
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	46115	0.641	46152
0.010	45965	0.664	45997
0.010	45957	0.700	45998
0.010	45956	0.752	45996
0.010	45954	3.470	45981


100
80
60
40
20
0
Percent
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
3.45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	0.2181306	**Sum Observations**	58.459
Std Deviation	0.14691857	**Variance**	0.02158507
Skewness	2.28141898	**Kurtosis**	8.18078119
Uncorrected SS	18.514909	**Corrected SS**	5.76321243
Coeff Variation	67.3534886	**Std Error Mean**	0.00897448

Basic Statistical Measures			
Location		**Variability**	
Mean	0.218131	**Std Deviation**	0.14692
Median	0.179000	**Variance**	0.02159
Mode	0.160000	**Range**	1.10800
		Interquartile Range	0.15300

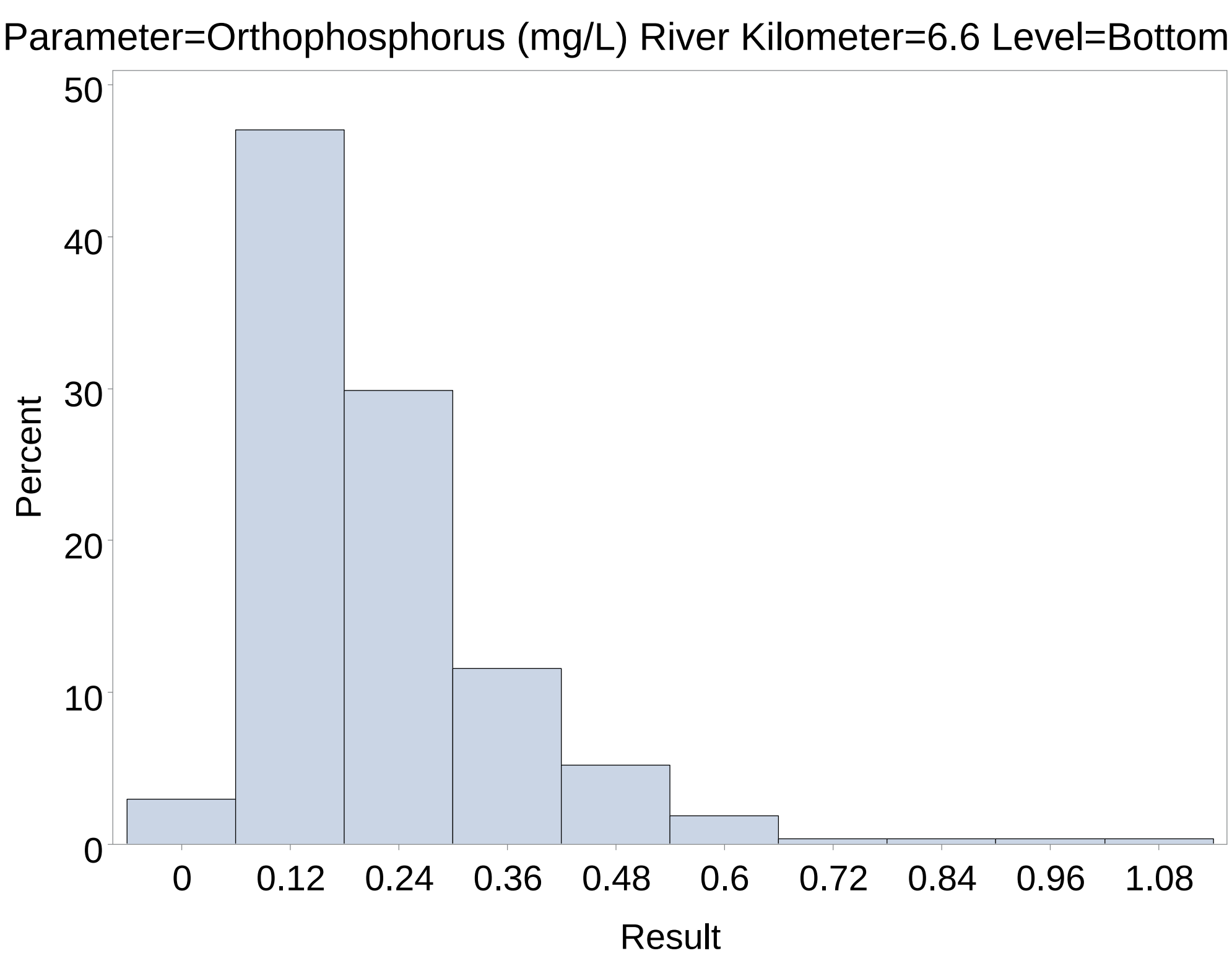
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.30565	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.110
99%	0.840
95%	0.480
90%	0.398
75% Q3	0.273
50% Median	0.179
25% Q1	0.120
10%	0.093
5%	0.071
1%	0.037
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	46383	0.644	46271
0.021	46318	0.708	46274
0.037	46435	0.840	46265
0.038	46225	0.957	46264
0.038	46222	1.110	46266


Parameter=Orthophosphorus (mg/L) River Kilometer=6.6 Level=Bottom
Percent
50
40
30
20
10
0
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	0.28125843	**Sum Observations**	75.096
Std Deviation	0.18983431	**Variance**	0.03603706
Skewness	2.09196245	**Kurtosis**	6.67604566
Uncorrected SS	30.707242	**Corrected SS**	9.58585917
Coeff Variation	67.4946206	**Std Error Mean**	0.01161767

Basic Statistical Measures			
Location		**Variability**	
Mean	0.281258	**Std Deviation**	0.18983
Median	0.232000	**Variance**	0.03604
Mode	0.130000	**Range**	1.29800
		Interquartile Range	0.23100

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

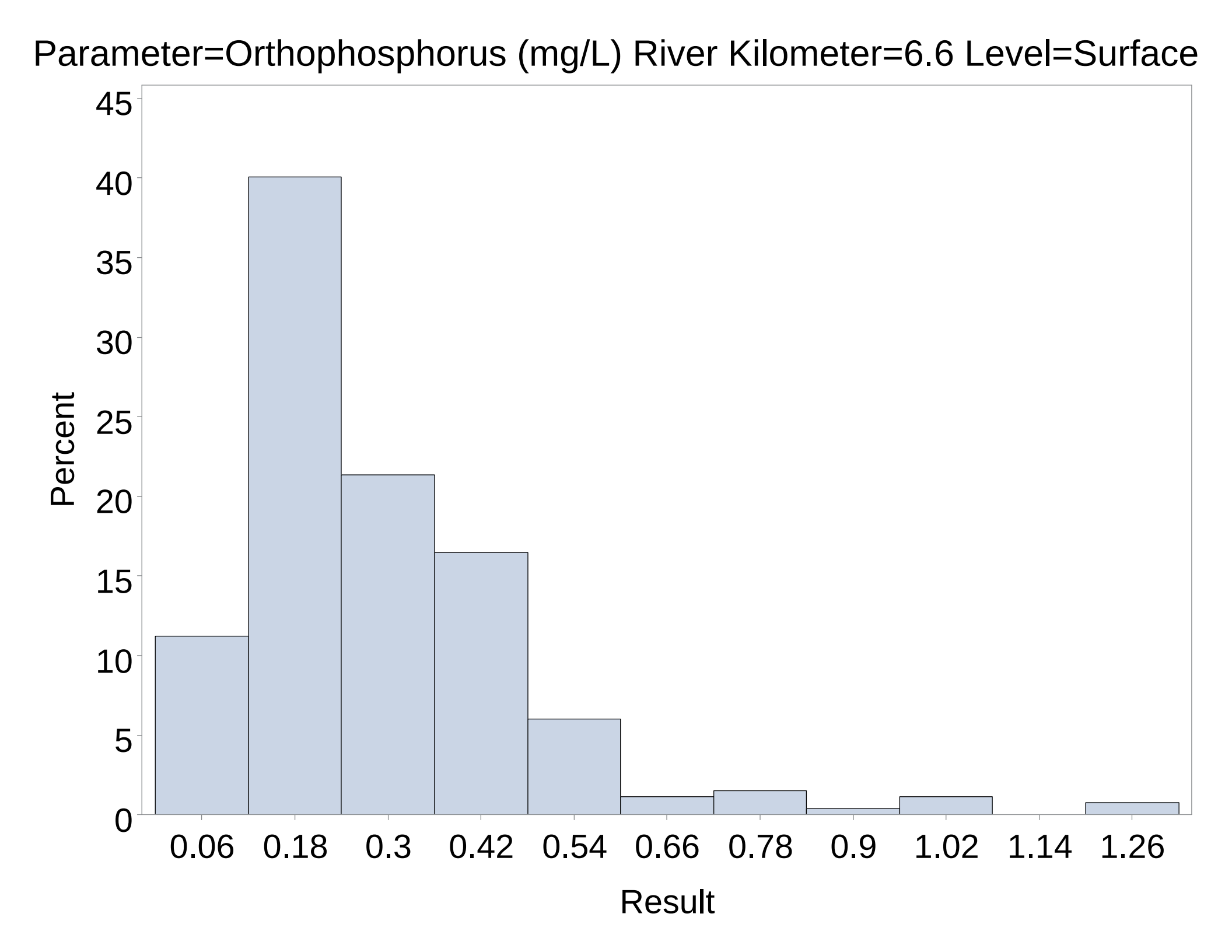
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.20954	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.300
99%	1.010
95%	0.596
90%	0.483
75% Q3	0.376
50% Median	0.232
25% Q1	0.145
10%	0.112
5%	0.092
1%	0.034
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	46650	0.96	46532
0.029	46585	1.00	46687
0.034	46492	1.01	46556
0.042	46489	1.25	46531
0.055	46491	1.30	46533


Parameter=Orthophosphorus (mg/L) River Kilometer=6.6 Level=Surface
Percent
45
40
35
30
25
20
15
10
5
0
0.06
0.18
0.3
0.42
0.54
0.66
0.78
0.9
1.02
1.14
1.26
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	0.50924535	**Sum Observations**	136.987
Std Deviation	0.23268397	**Variance**	0.05414183
Skewness	1.68470056	**Kurtosis**	5.30375172
Uncorrected SS	84.270003	**Corrected SS**	14.5100098
Coeff Variation	45.6919172	**Std Error Mean**	0.01418699

Basic Statistical Measures			
Location		**Variability**	
Mean	0.509245	**Std Deviation**	0.23268
Median	0.470000	**Variance**	0.05414
Mode	0.500000	**Range**	1.82800
		Interquartile Range	0.27000

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

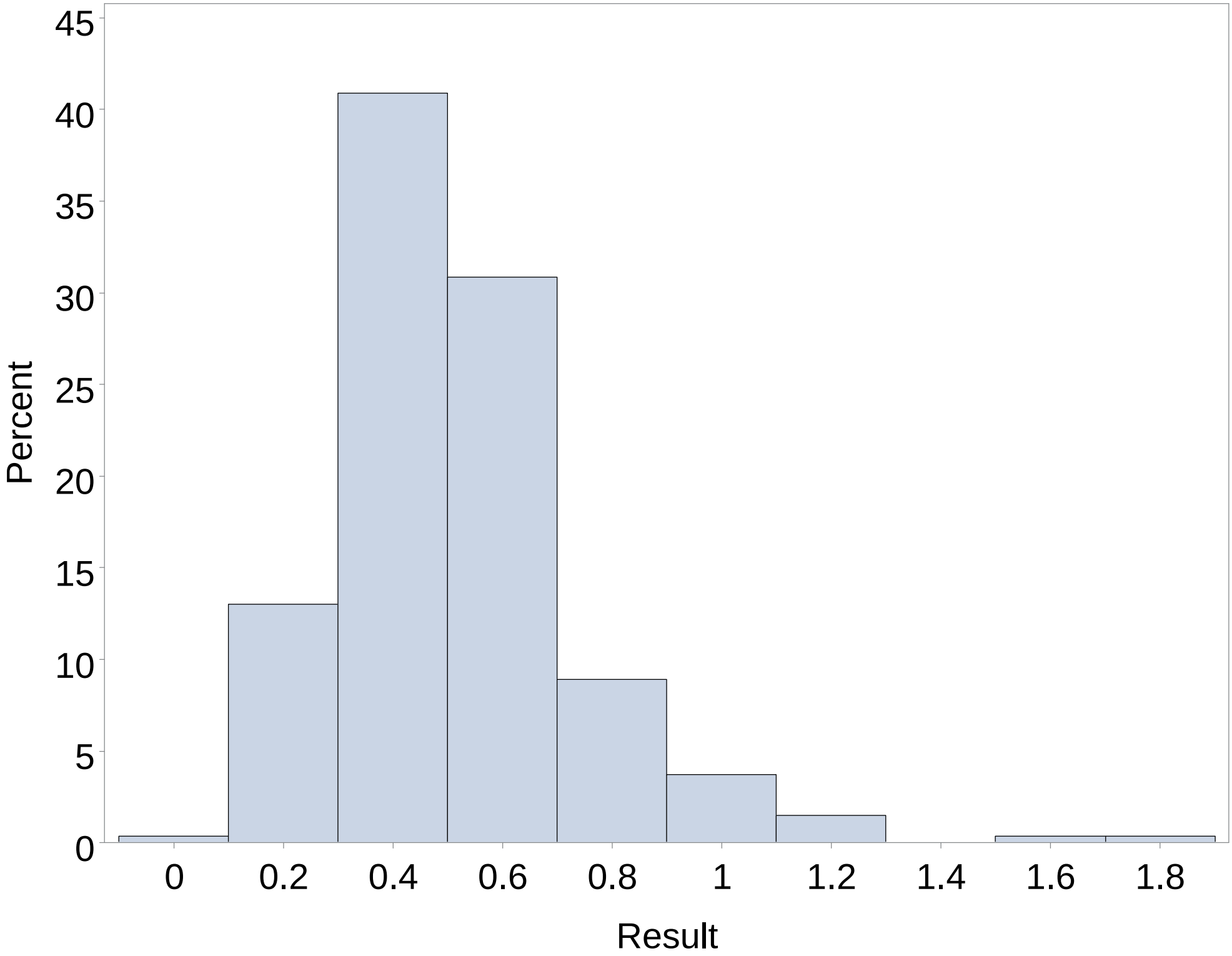
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.89523	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.830
99%	1.280
95%	0.967
90%	0.780
75% Q3	0.615
50% Median	0.470
25% Q1	0.345
10%	0.270
5%	0.242
1%	0.164
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	46919	1.27	46790
0.150	46758	1.28	46799
0.164	46753	1.28	46802
0.180	46756	1.51	46803
0.185	46960	1.83	46801


45
40
35
30
25
20
15
10
5
0
Percent
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	0.52862082	**Sum Observations**	142.199
Std Deviation	0.22588087	**Variance**	0.05102217
Skewness	1.71689823	**Kurtosis**	6.08815756
Uncorrected SS	88.843293	**Corrected SS**	13.6739413
Coeff Variation	42.7302267	**Std Error Mean**	0.0137722

Basic Statistical Measures			
Location		**Variability**	
Mean	0.528621	**Std Deviation**	0.22588
Median	0.500000	**Variance**	0.05102
Mode	0.500000	**Range**	1.86800
		Interquartile Range	0.25700

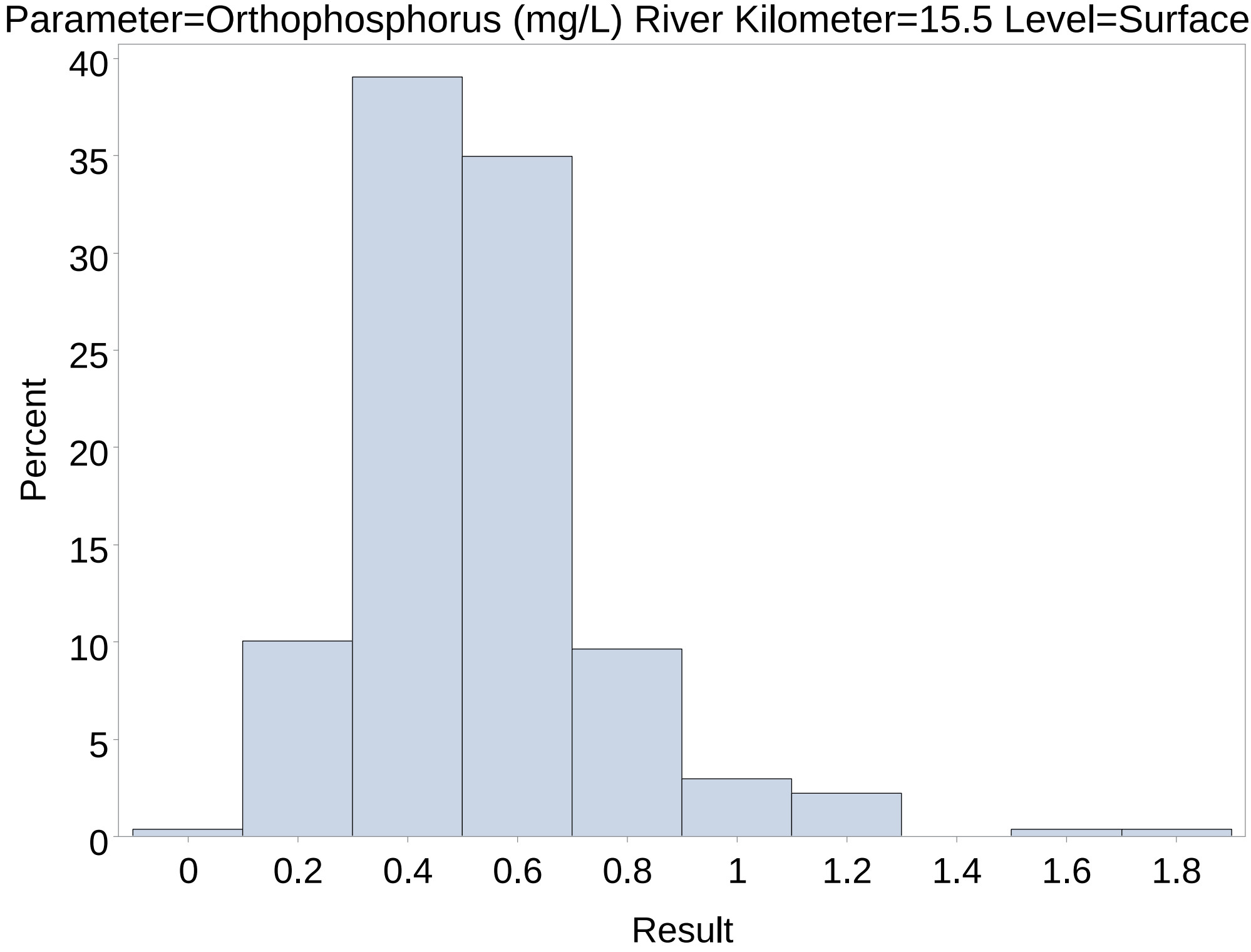
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.38318	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.870
99%	1.280
95%	0.947
90%	0.764
75% Q3	0.630
50% Median	0.500
25% Q1	0.373
10%	0.295
5%	0.258
1%	0.184
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	47188	1.20	47059
0.145	47027	1.22	47074
0.184	47025	1.28	47072
0.205	47026	1.54	47070
0.208	47144	1.87	47071


Parameter=Orthophosphorus (mg/L) River Kilometer=15.5 Level=Surface
Percent
40
35
30
25
20
15
10
5
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	0.70279104	**Sum Observations**	188.348
Std Deviation	0.25249532	**Variance**	0.06375389
Skewness	1.81816838	**Kurtosis**	5.90154067
Uncorrected SS	149.391576	**Corrected SS**	17.0222883
Coeff Variation	35.9275102	**Std Error Mean**	0.01542361

Basic Statistical Measures			
Location		**Variability**	
Mean	0.702791	**Std Deviation**	0.25250
Median	0.640000	**Variance**	0.06375
Mode	0.630000	**Range**	2.09800
		Interquartile Range	0.19600

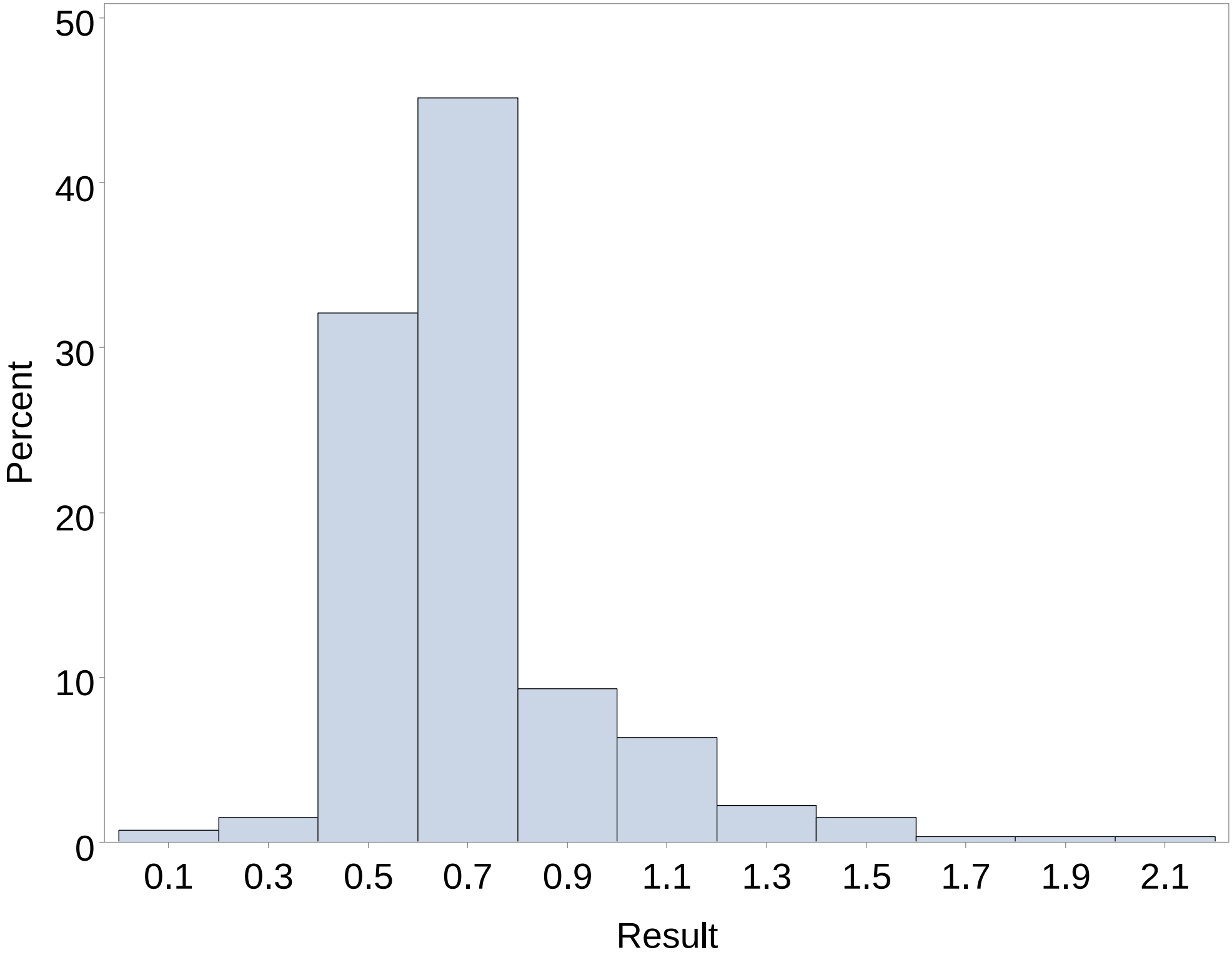
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.56593	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.100
99%	1.640
95%	1.190
90%	1.050
75% Q3	0.756
50% Median	0.640
25% Q1	0.560
10%	0.474
5%	0.436
1%	0.333
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	47456	1.47	47337
0.057	47303	1.47	47338
0.333	47293	1.64	47365
0.354	47474	1.88	47327
0.376	47462	2.10	47339


50
40
30
20
10
0
Percent
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
2.1
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	0.70753532	**Sum Observations**	190.327
Std Deviation	0.24974686	**Variance**	0.0623735
Skewness	1.869784	**Kurtosis**	5.67061635
Uncorrected SS	151.379171	**Corrected SS**	16.7160969
Coeff Variation	35.2981481	**Std Error Mean**	0.01522734

Basic Statistical Measures			
Location		**Variability**	
Mean	0.707535	**Std Deviation**	0.24975
Median	0.650000	**Variance**	0.06237
Mode	0.620000	**Range**	2.05800
		Interquartile Range	0.18800

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

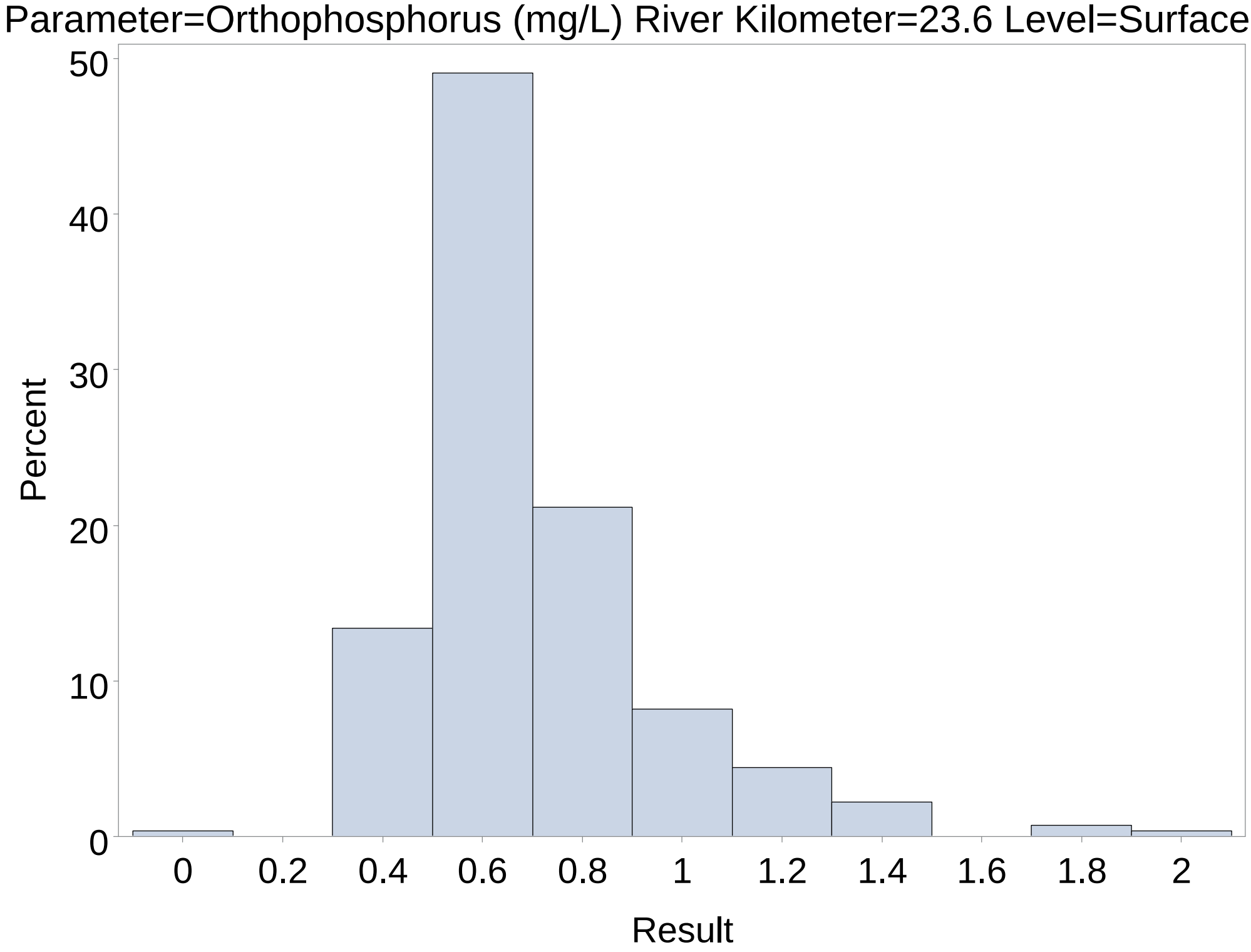
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	46.46482	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.060
99%	1.730
95%	1.210
90%	1.030
75% Q3	0.758
50% Median	0.650
25% Q1	0.570
10%	0.475
5%	0.430
1%	0.353
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	47725	1.47	47607
0.304	47562	1.48	47641
0.353	47743	1.73	47634
0.369	47731	1.82	47596
0.383	47742	2.06	47608


Parameter=Orthophosphorus (mg/L) River Kilometer=23.6 Level=Surface
Percent
50
40
30
20
10
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	0.77005993	**Sum Observations**	205.606
Std Deviation	0.30375391	**Variance**	0.09226644
Skewness	1.77459627	**Kurtosis**	4.38530864
Uncorrected SS	182.871814	**Corrected SS**	24.542873
Coeff Variation	39.4454904	**Std Error Mean**	0.01858944

Basic Statistical Measures			
Location		**Variability**	
Mean	0.770060	**Std Deviation**	0.30375
Median	0.700000	**Variance**	0.09227
Mode	0.520000	**Range**	2.07800
		Interquartile Range	0.27000

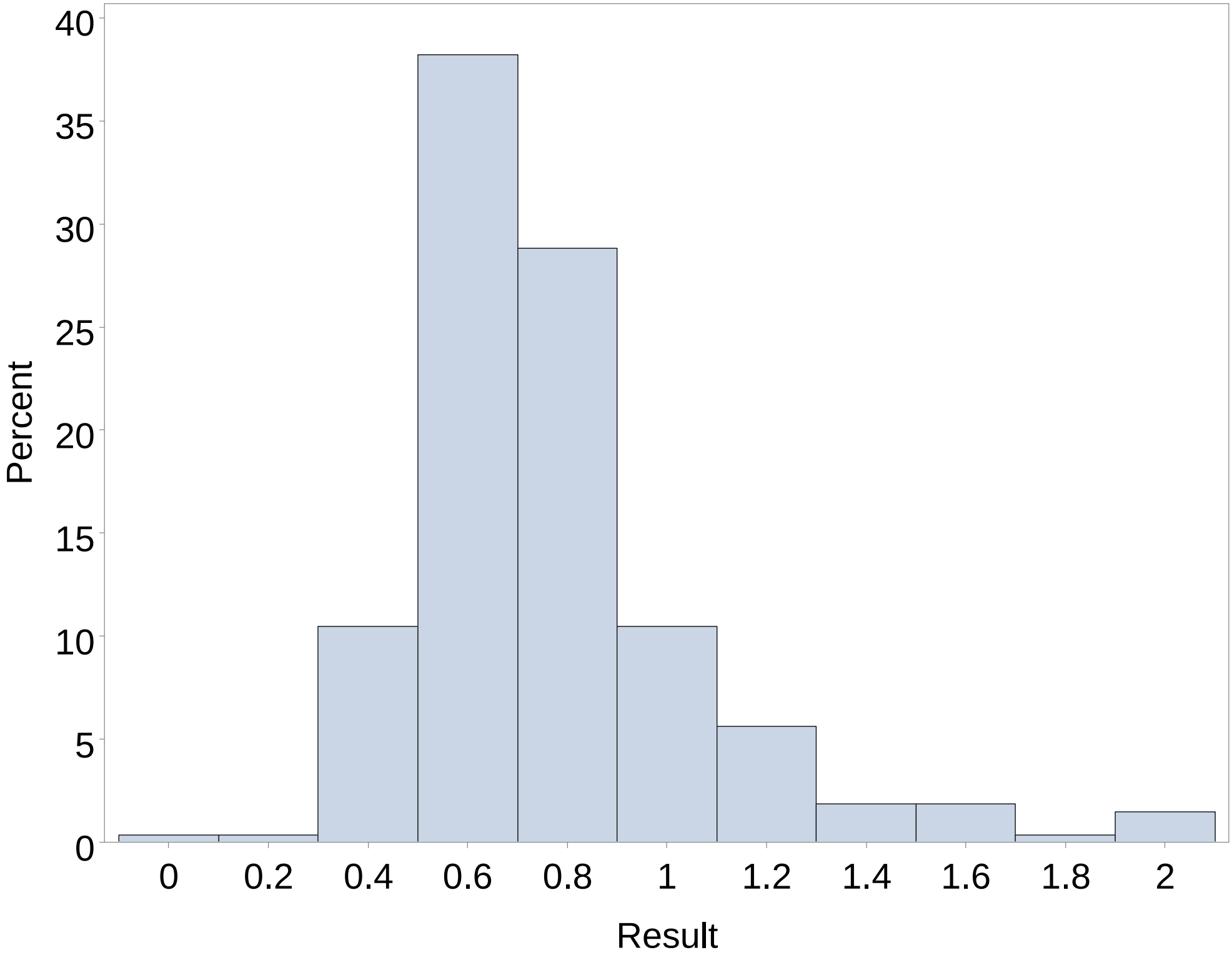
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.4246	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.080
99%	2.010
95%	1.370
90%	1.150
75% Q3	0.860
50% Median	0.700
25% Q1	0.590
10%	0.479
5%	0.454
1%	0.347
0% Min	0.002

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	47992	1.87	47905
0.285	47830	1.99	47864
0.347	47998	2.01	47876
0.349	48010	2.02	47906
0.379	48009	2.08	47902


Percent
40
35
30
25
20
15
10
5
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	0.76642164	**Sum Observations**	205.401
Std Deviation	0.30110598	**Variance**	0.09066481
Skewness	1.72603396	**Kurtosis**	4.09496529
Uncorrected SS	181.631277	**Corrected SS**	24.2075054
Coeff Variation	39.2872498	**Std Error Mean**	0.01839298

Basic Statistical Measures			
Location		**Variability**	
Mean	0.766422	**Std Deviation**	0.30111
Median	0.700000	**Variance**	0.09066
Mode	0.520000	**Range**	2.13800
		Interquartile Range	0.26750

Note: The mode displayed is the smallest of 4 modes with a count of 4.

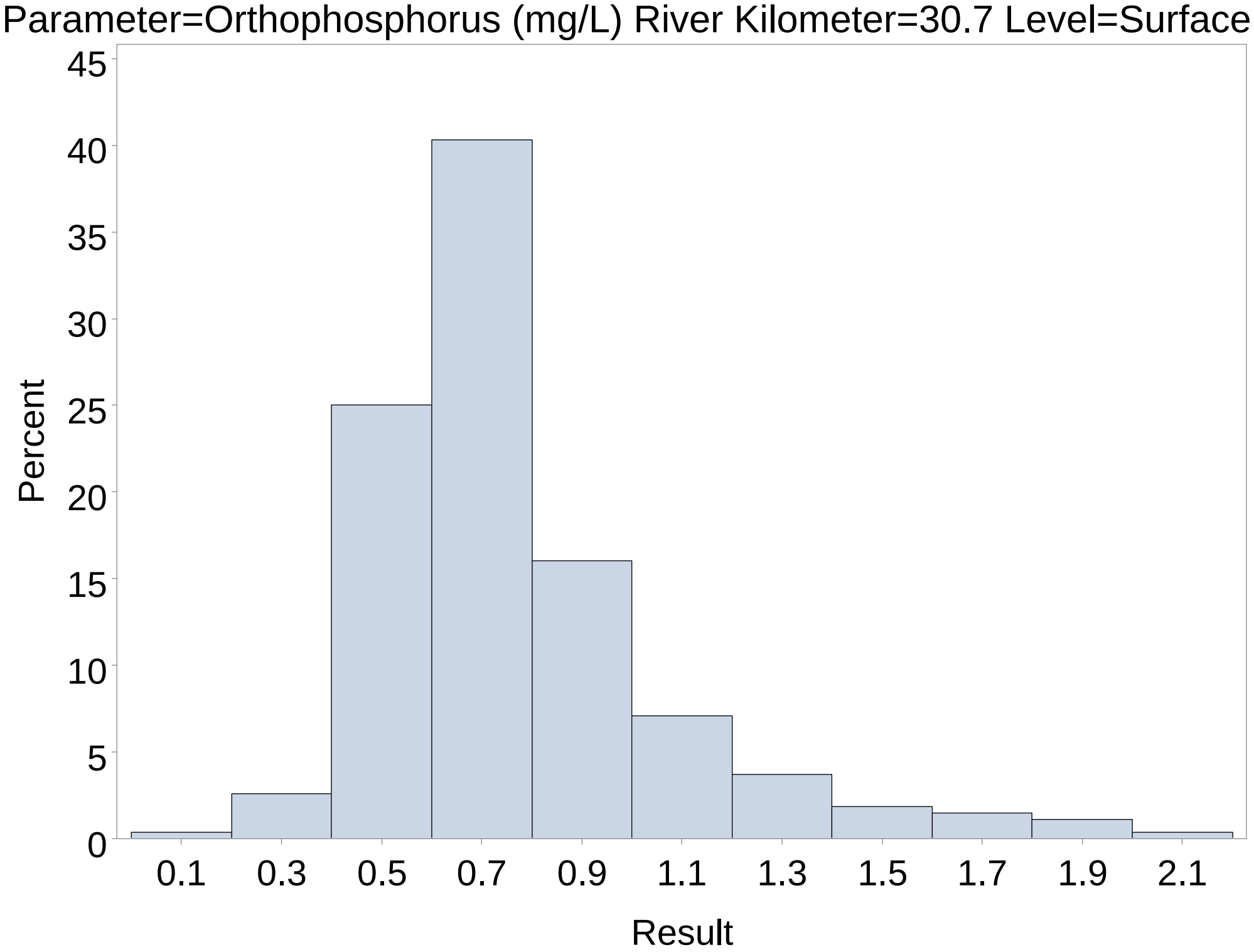
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.66926	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.1400
99%	1.9300
95%	1.3900
90%	1.1400
75% Q3	0.8575
50% Median	0.7000
25% Q1	0.5900
10%	0.4800
5%	0.4400
1%	0.3390
0% Min	0.0020

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Orthophosphorus (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	48260	1.78	48132
0.281	48098	1.84	48173
0.339	48266	1.93	48174
0.357	48278	1.96	48144
0.380	48116	2.14	48170


Parameter=Orthophosphorus (mg/L) River Kilometer=30.7 Level=Surface
Percent
45
40
35
30
25
20
15
10
5
0
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
2.1
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=-2.4 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	4.70789272	**Sum Observations**	1228.76
Std Deviation	2.27693362	**Variance**	5.1844267
Skewness	1.40892975	**Kurtosis**	6.34081869
Uncorrected SS	7132.8212	**Corrected SS**	1347.95094
Coeff Variation	48.364178	**Std Error Mean**	0.14093865

Basic Statistical Measures			
Location		**Variability**	
Mean	4.707893	**Std Deviation**	2.27693
Median	4.700000	**Variance**	5.18443
Mode	5.300000	**Range**	18.50000
		Interquartile Range	3.10000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.40384	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

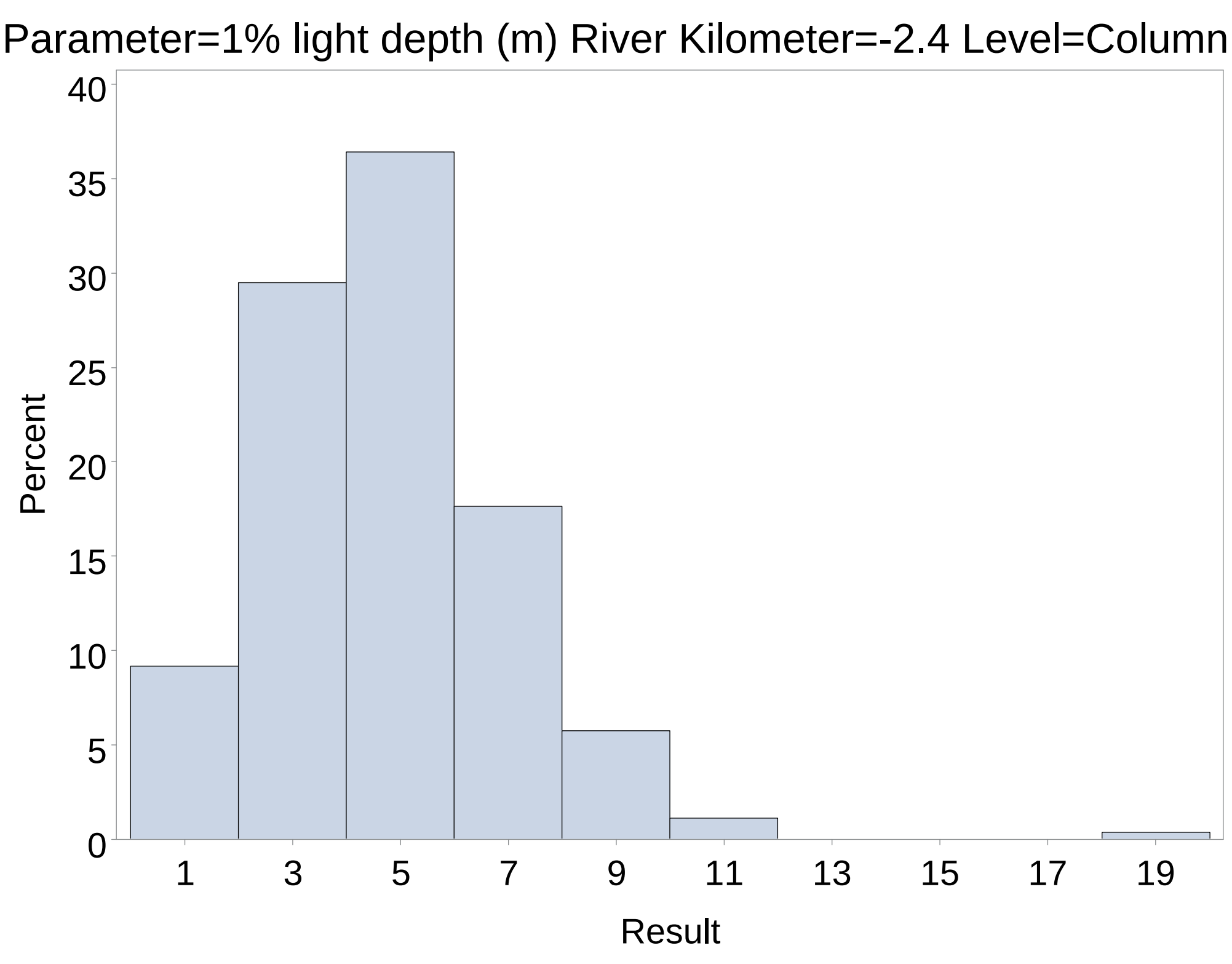
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.70
99%	10.36
95%	8.60
90%	7.40
75% Q3	5.90
50% Median	4.70
25% Q1	2.80
10%	2.00
5%	1.70
1%	1.40
0% Min	1.20

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=-2.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.20	48330	9.88	48549
1.38	48560	10.00	48363
1.40	48510	10.36	48553
1.40	48421	11.40	48497
1.50	48405	19.70	48436

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


Parameter=1% light depth (m) River Kilometer=-2.4 Level=Column
Percent
0
5
10
15
20
25
30
35
40
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=6.6 Level=Column

Moments			
N	262	**Sum Weights**	262
Mean	3.15034351	**Sum Observations**	825.39
Std Deviation	1.35350951	**Variance**	1.831988
Skewness	0.92780198	**Kurtosis**	1.02110836
Uncorrected SS	3078.4109	**Corrected SS**	478.148869
Coeff Variation	42.9638707	**Std Error Mean**	0.0836201

Basic Statistical Measures			
Location		**Variability**	
Mean	3.150344	**Std Deviation**	1.35351
Median	2.900000	**Variance**	1.83199
Mode	2.400000	**Range**	8.00000
		Interquartile Range	2.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.67448	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

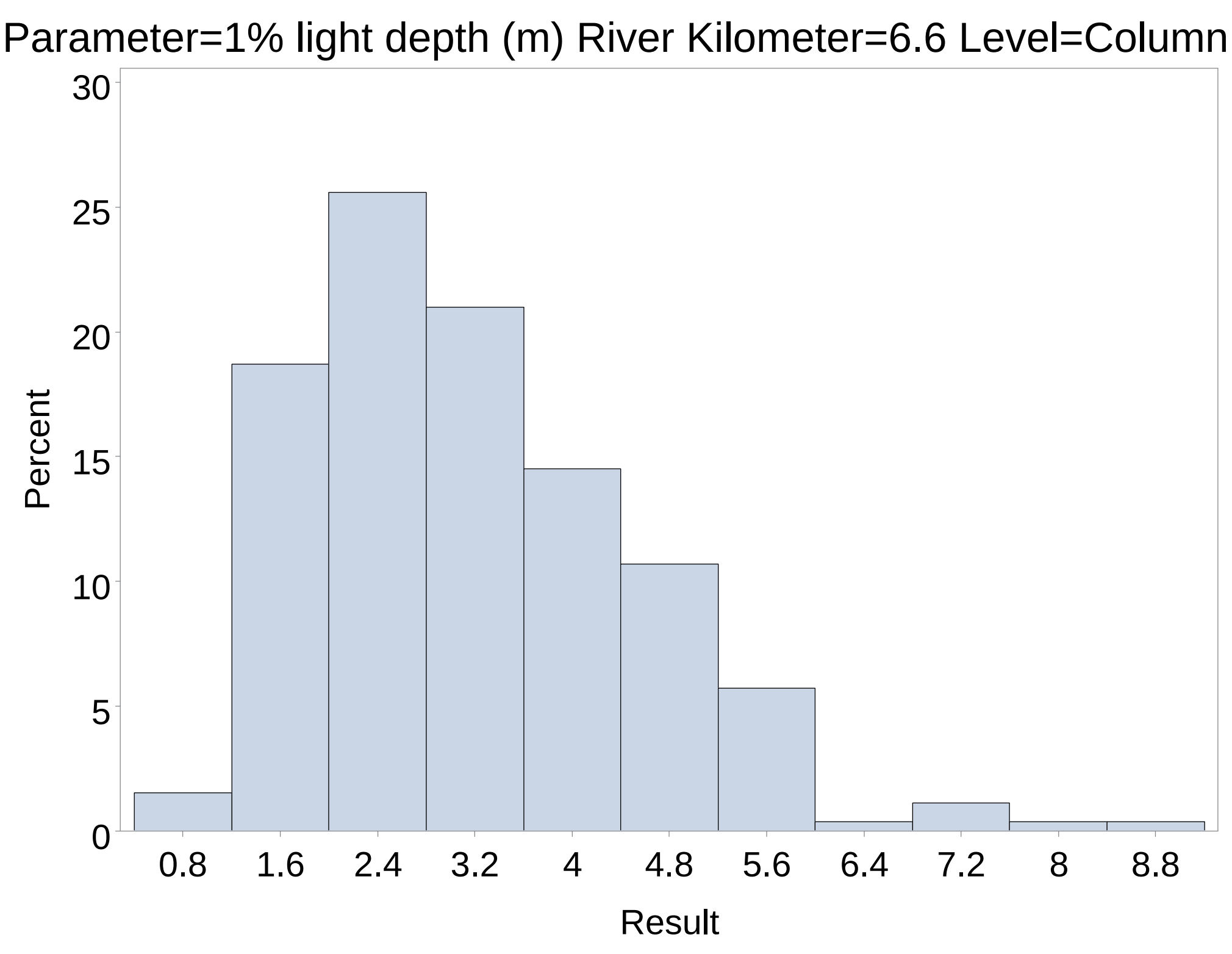
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.70
99%	7.30
95%	5.50
90%	5.05
75% Q3	4.10
50% Median	2.90
25% Q1	2.10
10%	1.60
5%	1.50
1%	1.06
0% Min	0.70

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=6.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.70	48590	6.82	48827
1.00	48773	6.90	48636
1.06	48823	7.30	48689
1.10	48599	8.01	48816
1.30	48677	8.70	48591

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


Parameter=1% light depth (m) River Kilometer=6.6 Level=Column
30
25
20
15
10
5
0
Percent
0.8
1.6
2.4
3.2
4
4.8
5.6
6.4
7.2
8
8.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=8.4 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	2.90518349	**Sum Observations**	633.33
Std Deviation	1.28355792	**Variance**	1.64752093
Skewness	1.21972399	**Kurtosis**	2.69940683
Uncorrected SS	2197.4519	**Corrected SS**	357.512043
Coeff Variation	44.1816473	**Std Error Mean**	0.08693351

Basic Statistical Measures			
Location		**Variability**	
Mean	2.905183	**Std Deviation**	1.28356
Median	2.615000	**Variance**	1.64752
Mode	3.100000	**Range**	8.49000
		Interquartile Range	1.80000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.41845	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

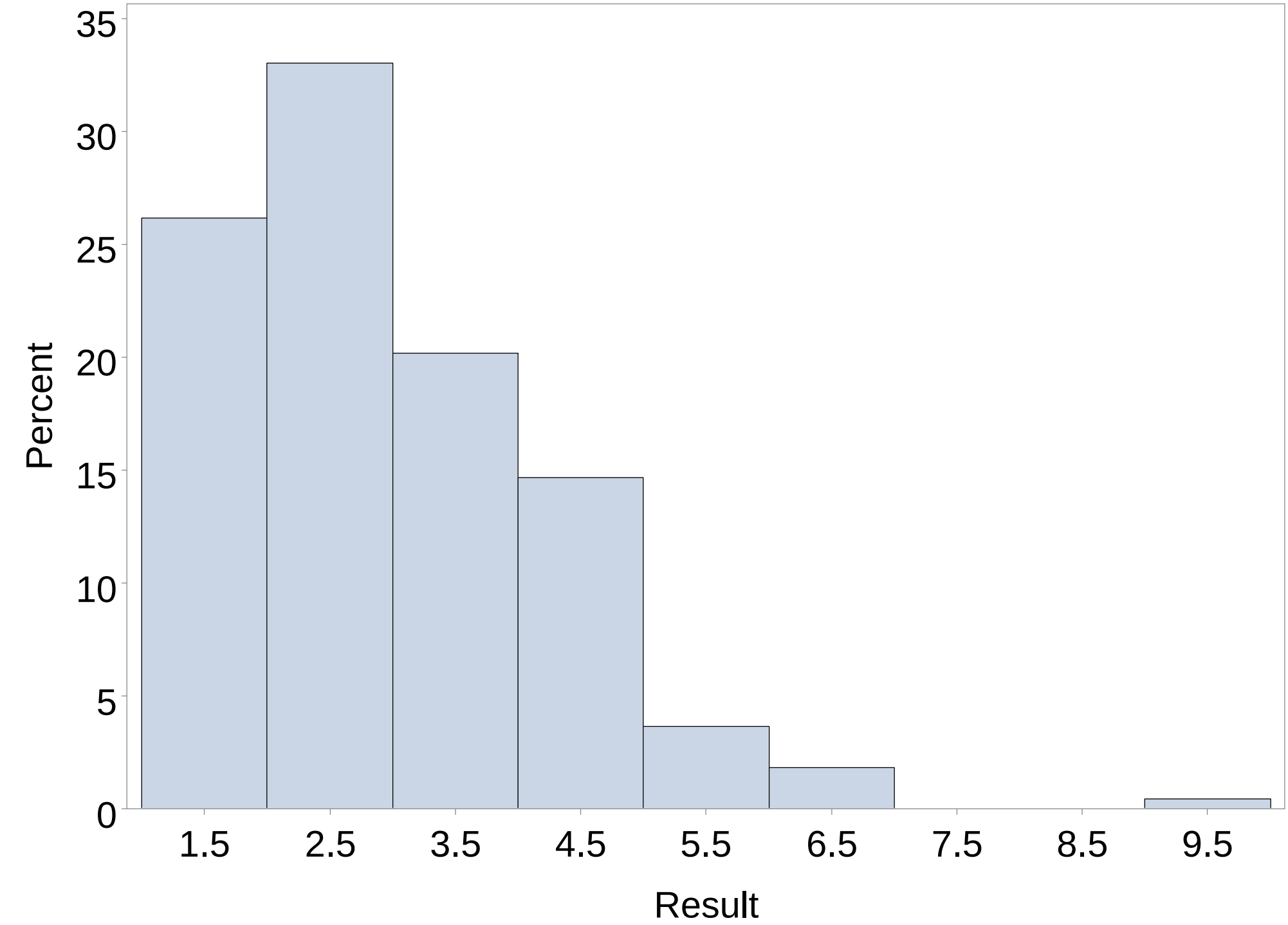
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.500
99%	6.600
95%	5.320
90%	4.600
75% Q3	3.700
50% Median	2.615
25% Q1	1.900
10%	1.500
5%	1.320
1%	1.170
0% Min	1.010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=8.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.01	49042	6.00	48988
1.12	49017	6.20	48955
1.17	49039	6.60	48979
1.20	48972	6.72	49035
1.29	49052	9.50	48845

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=1% light depth (m) River Kilometer=8.4 Level=Column
35
30
25
20
15
10
5
0
Percent
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=10.5 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	2.77600917	**Sum Observations**	605.17
Std Deviation	1.26479271	**Variance**	1.59970059
Skewness	1.11688965	**Kurtosis**	1.08306173
Uncorrected SS	2027.0925	**Corrected SS**	347.135028
Coeff Variation	45.5615463	**Std Error Mean**	0.08566257

Basic Statistical Measures			
Location		**Variability**	
Mean	2.776009	**Std Deviation**	1.26479
Median	2.450000	**Variance**	1.59970
Mode	3.000000	**Range**	6.20000
		Interquartile Range	1.60000

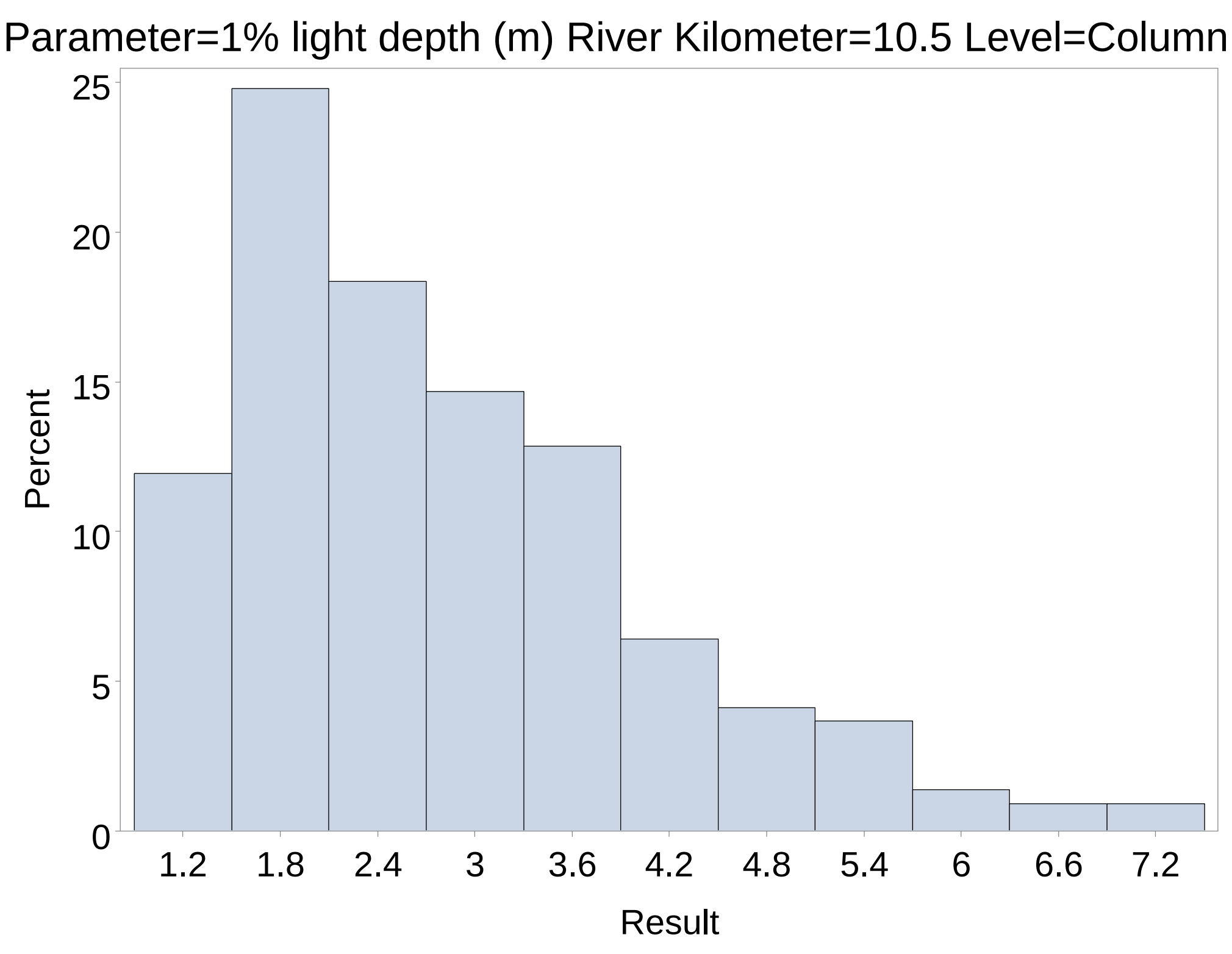
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.40633	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.20
99%	6.77
95%	5.30
90%	4.60
75% Q3	3.40
50% Median	2.45
25% Q1	1.80
10%	1.41
5%	1.32
1%	1.16
0% Min	1.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=10.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	49108	6.20	49173
1.01	49260	6.70	49208
1.16	49257	6.77	49254
1.20	49071	7.00	49064
1.20	49069	7.20	49127


Parameter=1% light depth (m) River Kilometer=10.5 Level=Column
Percent
25
20
15
10
5
0
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
6.6
7.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=12.7 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	2.44720183	**Sum Observations**	533.49
Std Deviation	0.97700802	**Variance**	0.95454467
Skewness	1.35189859	**Kurtosis**	2.94488389
Uncorrected SS	1512.6939	**Corrected SS**	207.136193
Coeff Variation	39.9234752	**Std Error Mean**	0.06617133

Basic Statistical Measures			
Location		**Variability**	
Mean	2.447202	**Std Deviation**	0.97701
Median	2.200000	**Variance**	0.95454
Mode	1.500000	**Range**	6.32000
		Interquartile Range	1.30000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.98281	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

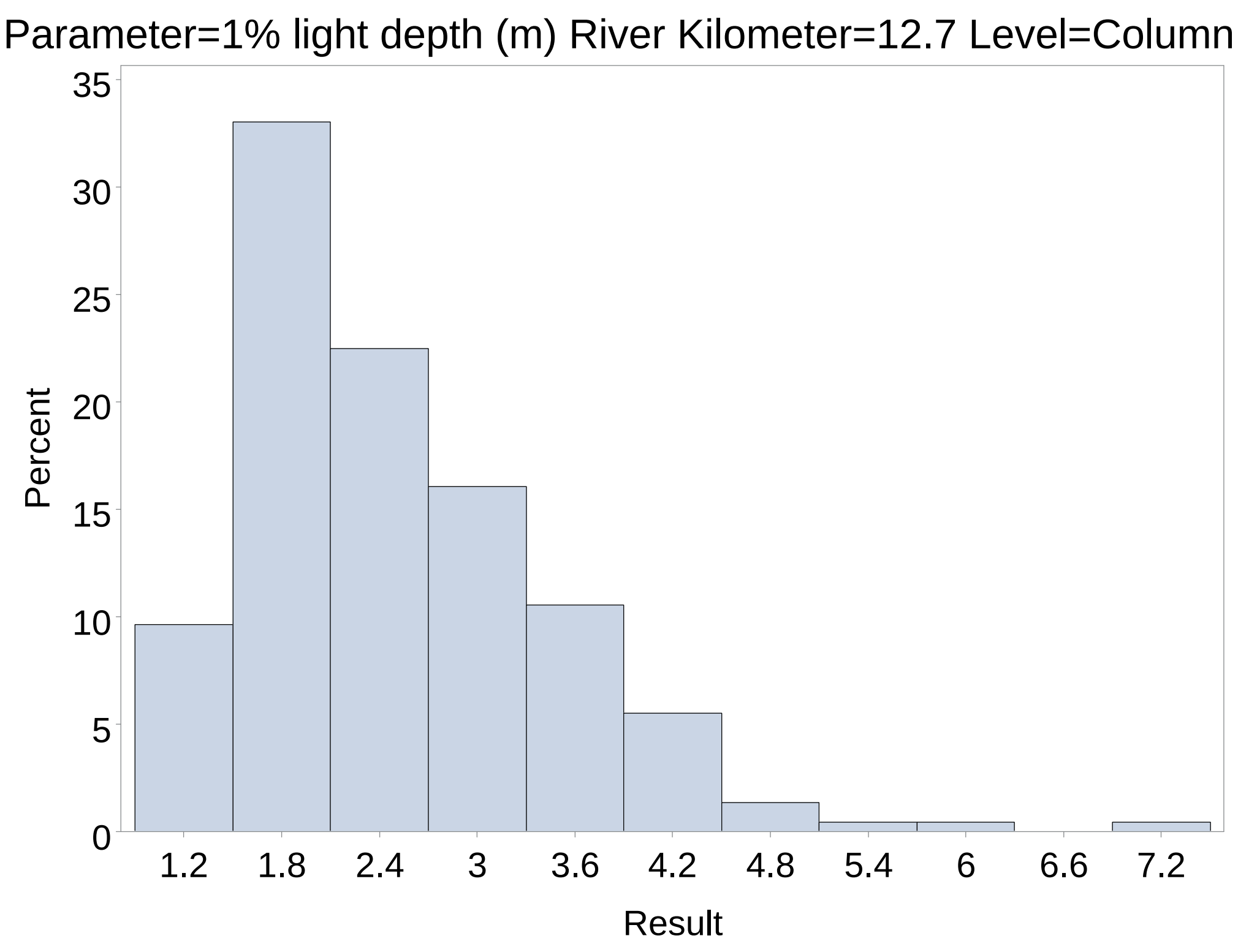
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.40
99%	5.46
95%	4.29
90%	3.80
75% Q3	3.00
50% Median	2.20
25% Q1	1.70
10%	1.50
5%	1.30
1%	1.15
0% Min	1.08

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=12.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.08	49476	5.00	49356
1.12	49480	5.00	49416
1.15	49479	5.46	49473
1.19	49488	5.90	49345
1.20	49326	7.40	49282

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=1% light depth (m) River Kilometer=12.7 Level=Column
Percent
35
30
25
20
15
10
5
0
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
6.6
7.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=12.8 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	2.54174312	**Sum Observations**	554.1
Std Deviation	1.15618979	**Variance**	1.33677483
Skewness	1.52318495	**Kurtosis**	3.70714928
Uncorrected SS	1698.46	**Corrected SS**	290.080138
Coeff Variation	45.488066	**Std Error Mean**	0.07830705

Basic Statistical Measures			
Location		**Variability**	
Mean	2.541743	**Std Deviation**	1.15619
Median	2.300000	**Variance**	1.33677
Mode	1.600000	**Range**	7.22000
		Interquartile Range	1.39000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.45867	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

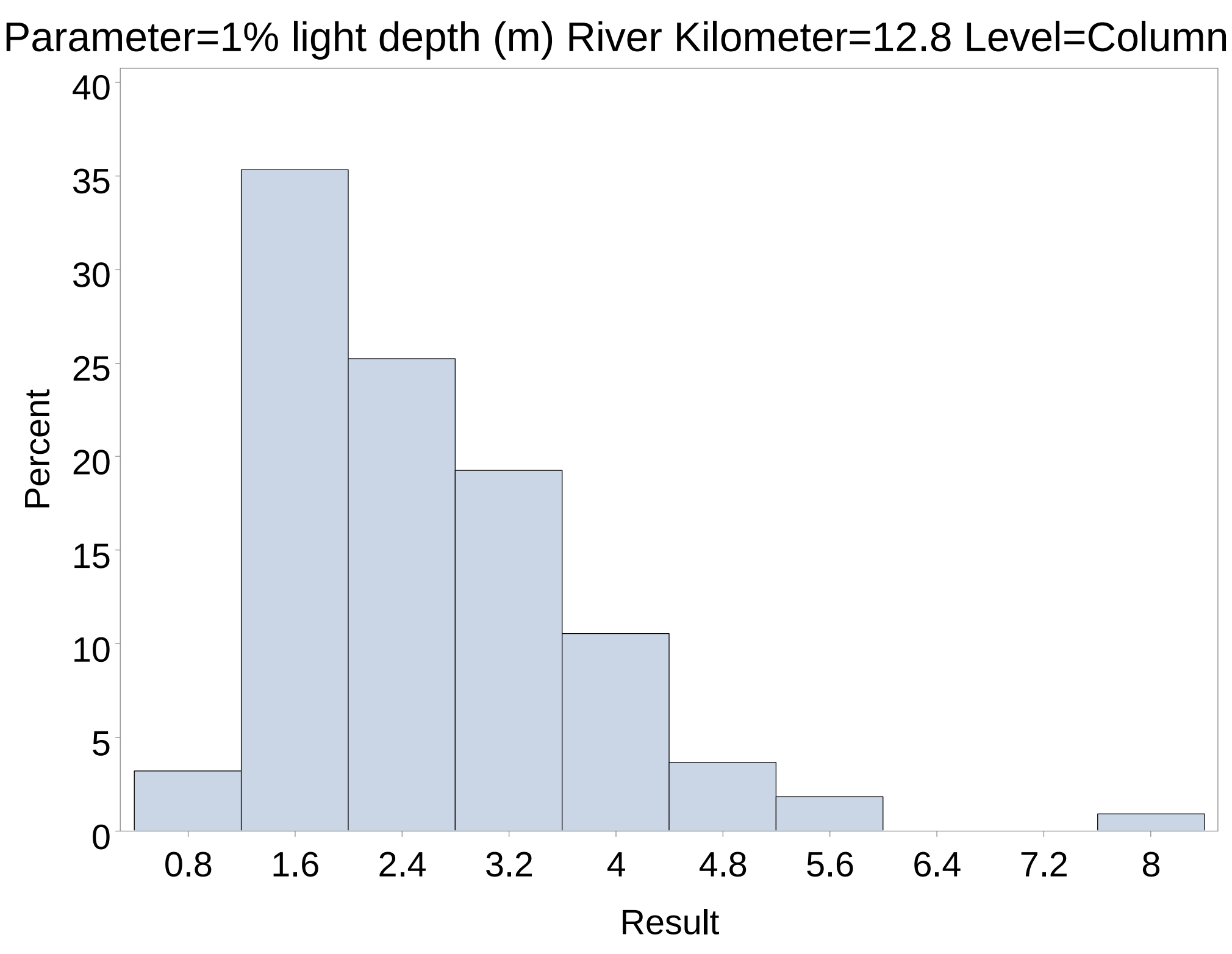
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.10
99%	5.70
95%	4.70
90%	4.20
75% Q3	3.00
50% Median	2.30
25% Q1	1.61
10%	1.40
5%	1.27
1%	1.03
0% Min	0.88

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=12.8 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.88	49686	5.41	49692
0.99	49695	5.50	49563
1.03	49698	5.70	49499
1.10	49709	7.90	49500
1.10	49589	8.10	49501

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=1% light depth (m) River Kilometer=12.8 Level=Column
Percent
40
35
30
25
20
15
10
5
0
0.8
1.6
2.4
3.2
4
4.8
5.6
6.4
7.2
8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=15.5 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	2.42310345	**Sum Observations**	632.43
Std Deviation	1.08901612	**Variance**	1.1859561
Skewness	1.62256776	**Kurtosis**	4.60153013
Uncorrected SS	1840.7919	**Corrected SS**	308.348586
Coeff Variation	44.9430303	**Std Error Mean**	0.06740841

Basic Statistical Measures			
Location		**Variability**	
Mean	2.423103	**Std Deviation**	1.08902
Median	2.200000	**Variance**	1.18596
Mode	1.700000	**Range**	7.36000
		Interquartile Range	1.40000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.94661	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

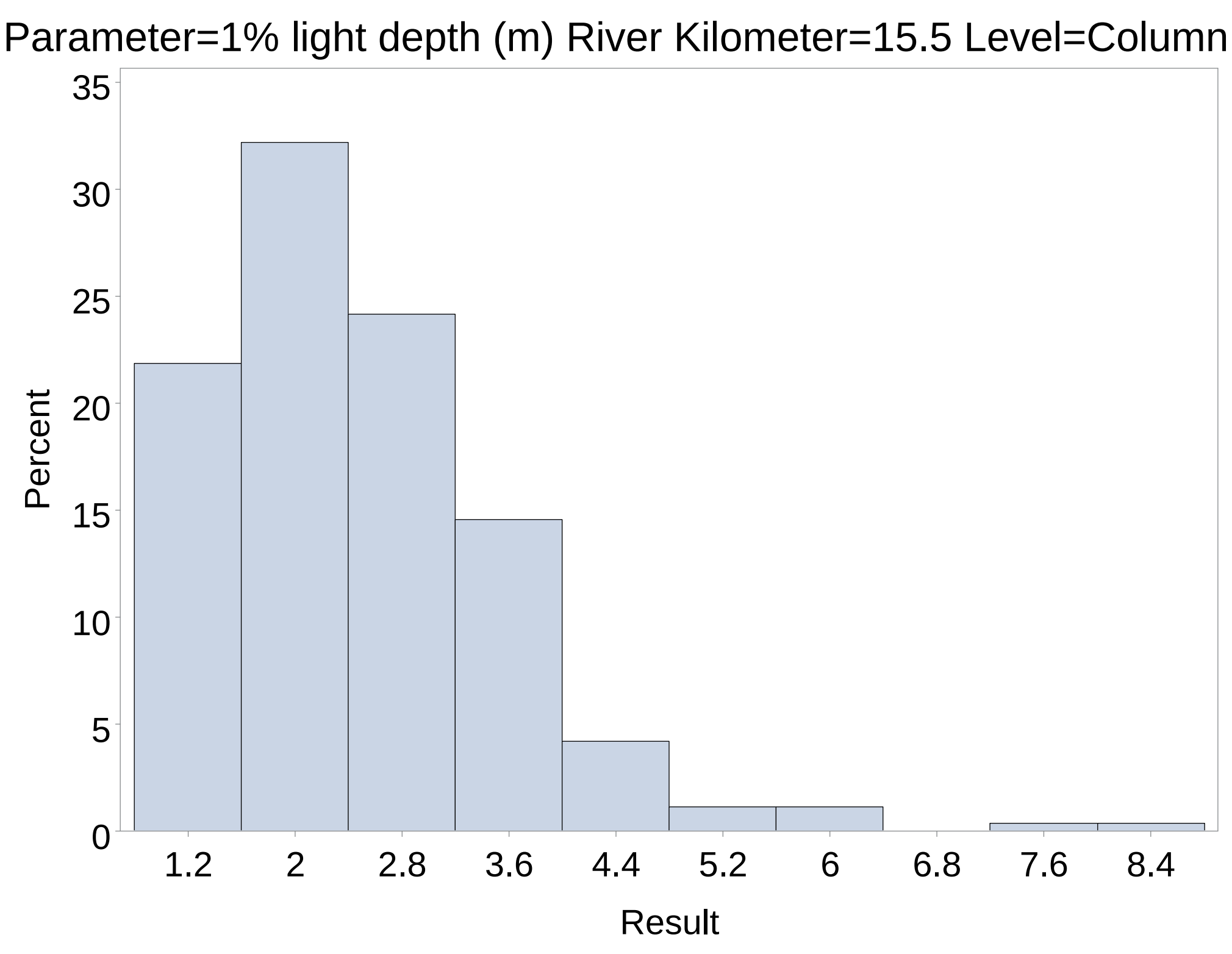
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.30
99%	5.90
95%	4.10
90%	3.70
75% Q3	3.00
50% Median	2.20
25% Q1	1.60
10%	1.30
5%	1.20
1%	1.00
0% Min	0.94

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=15.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.94	49958	5.80	49730
0.95	49972	5.86	49955
1.00	49807	5.90	49839
1.01	49959	7.40	49838
1.06	49961	8.30	49765

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


Parameter=1% light depth (m) River Kilometer=15.5 Level=Column
Percent
35
30
25
20
15
10
5
0
1.2
2
2.8
3.6
4.4
5.2
6
6.8
7.6
8.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=17.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	2.39773148	**Sum Observations**	517.91
Std Deviation	1.03308522	**Variance**	1.06726506
Skewness	2.10612564	**Kurtosis**	10.1191651
Uncorrected SS	1471.2711	**Corrected SS**	229.461988
Coeff Variation	43.0859428	**Std Error Mean**	0.07029255

Basic Statistical Measures			
Location		**Variability**	
Mean	2.397731	**Std Deviation**	1.03309
Median	2.100000	**Variance**	1.06727
Mode	1.500000	**Range**	8.66000
		Interquartile Range	1.39500

Note: The mode displayed is the smallest of 3 modes with a count of 12.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.11075	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

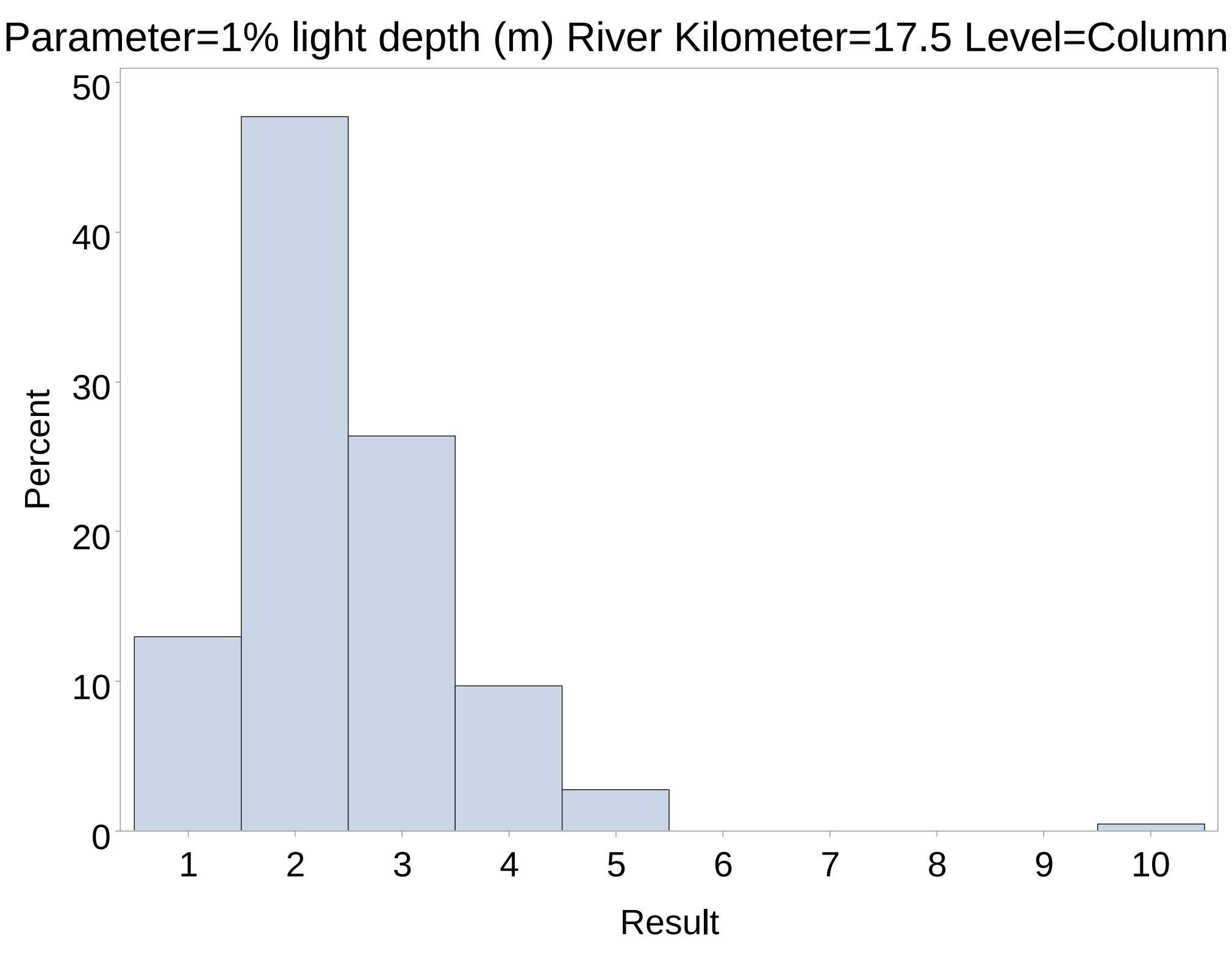
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.600
99%	5.020
95%	4.300
90%	3.600
75% Q3	3.050
50% Median	2.100
25% Q1	1.655
10%	1.400
5%	1.290
1%	1.120
0% Min	0.940

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=17.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.94	50175	4.90	50056
1.09	50184	5.00	50046
1.12	50178	5.02	50172
1.13	50176	5.10	50140
1.20	50141	9.60	50126

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=1% light depth (m) River Kilometer=17.5 Level=Column
Percent
50
40
30
20
10
0
1
2
3
4
5
6
7
8
9
10
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=20.1 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	2.26604651	**Sum Observations**	487.2
Std Deviation	0.89126116	**Variance**	0.79434645
Skewness	1.41558819	**Kurtosis**	3.34918782
Uncorrected SS	1274.008	**Corrected SS**	169.99014
Coeff Variation	39.331106	**Std Error Mean**	0.06078351

Basic Statistical Measures			
Location		**Variability**	
Mean	2.266047	**Std Deviation**	0.89126
Median	2.000000	**Variance**	0.79435
Mode	1.500000	**Range**	5.92000
		Interquartile Range	1.10000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.28062	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

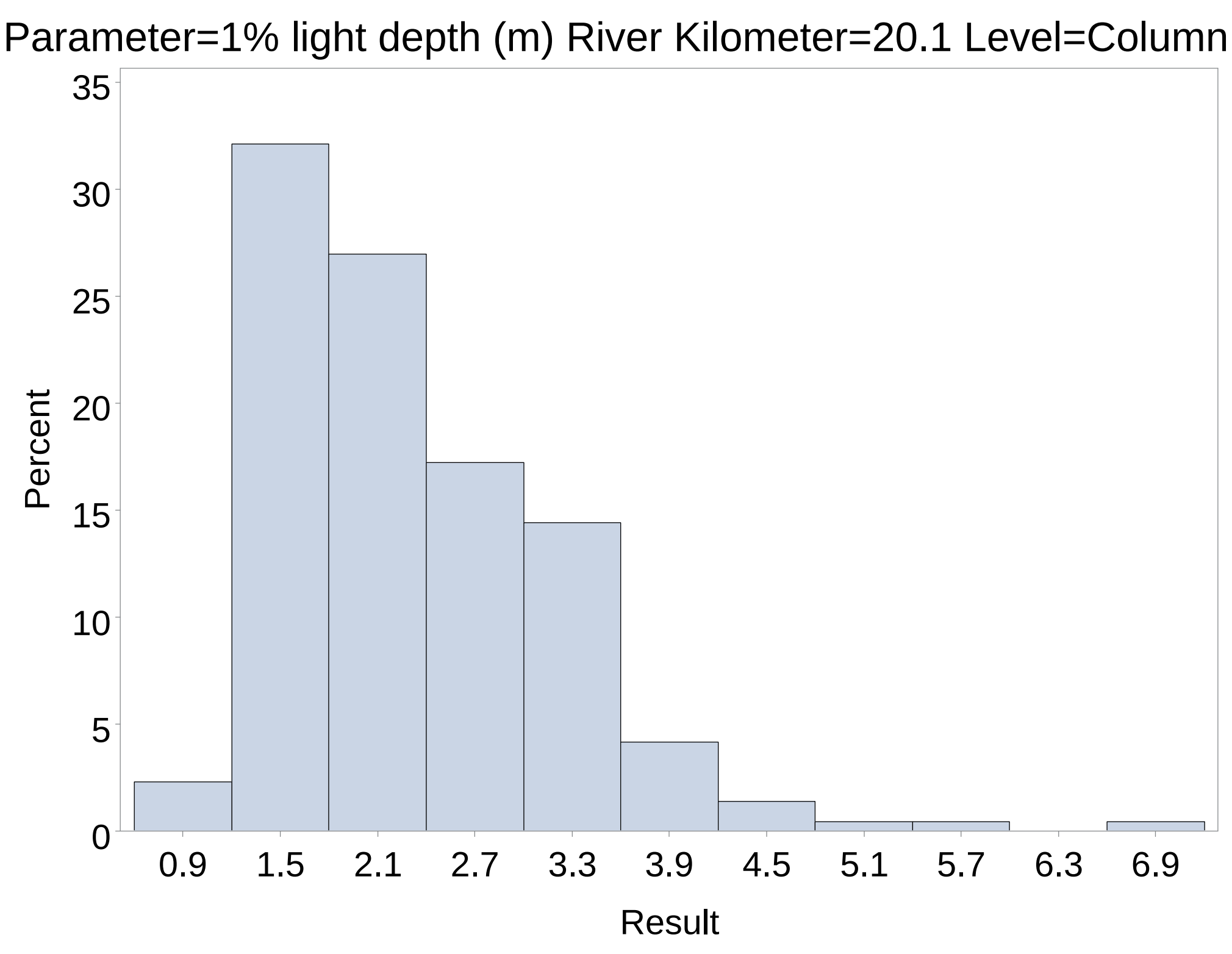
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.80
99%	5.20
95%	3.70
90%	3.50
75% Q3	2.70
50% Median	2.00
25% Q1	1.60
10%	1.40
5%	1.27
1%	1.09
0% Min	0.88

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=20.1 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.88	50391	4.2	50356
0.91	50382	4.3	50263
1.09	50394	5.2	50273
1.15	50400	5.8	50342
1.19	50392	6.8	50200

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=1% light depth (m) River Kilometer=20.1 Level=Column
Percent
35
30
25
20
15
10
5
0
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
5.7
6.3
6.9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=21.9 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	2.19855814	**Sum Observations**	472.69
Std Deviation	0.83446791	**Variance**	0.6963367
Skewness	2.2740574	**Kurtosis**	11.2053739
Uncorrected SS	1188.2525	**Corrected SS**	149.016053
Coeff Variation	37.9552352	**Std Error Mean**	0.05691024

Basic Statistical Measures			
Location		**Variability**	
Mean	2.198558	**Std Deviation**	0.83447
Median	2.100000	**Variance**	0.69634
Mode	1.600000	**Range**	7.10000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.63203	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

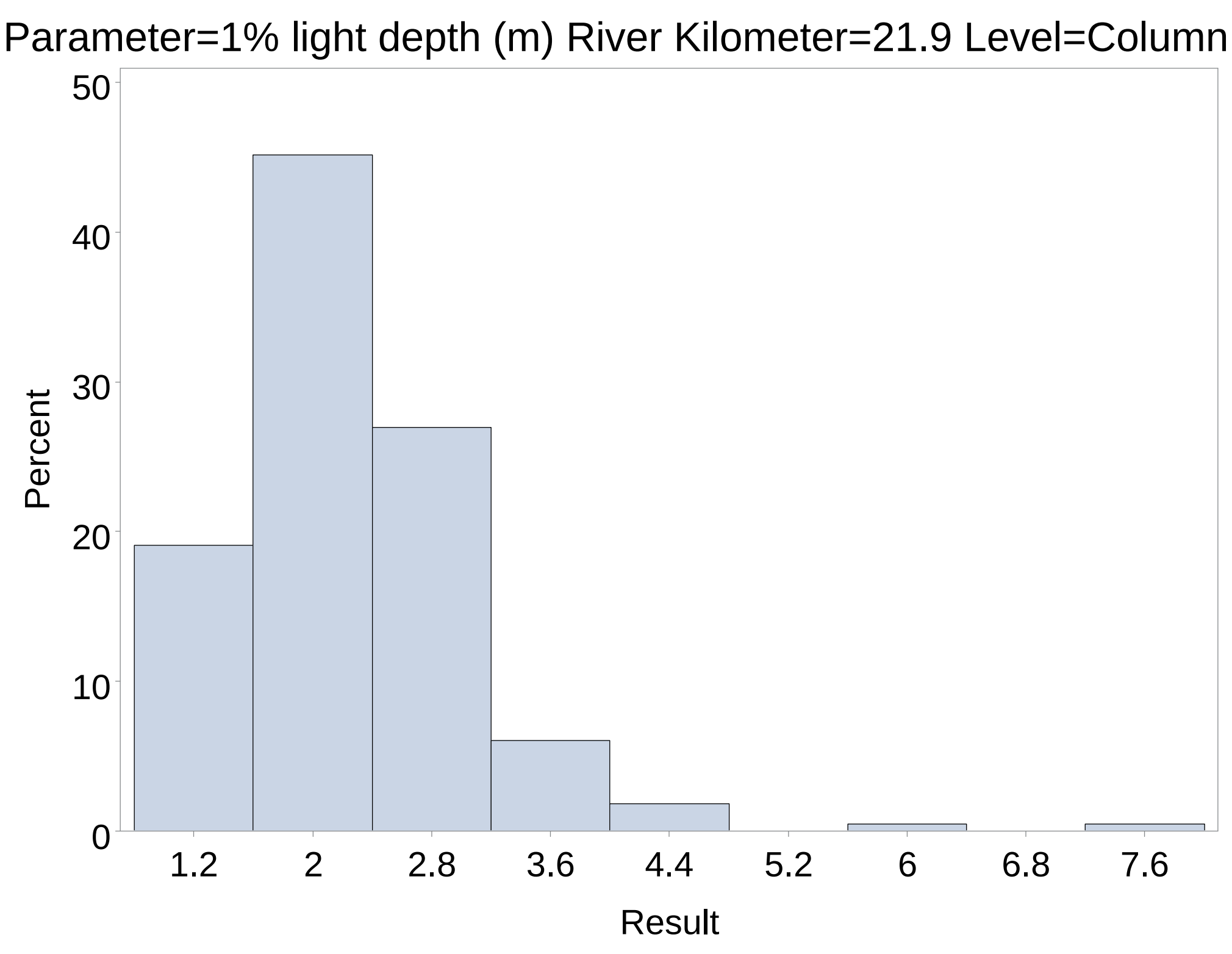
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.90
99%	4.40
95%	3.40
90%	3.10
75% Q3	2.60
50% Median	2.10
25% Q1	1.60
10%	1.40
5%	1.25
1%	0.99
0% Min	0.80

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=21.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.80	50574	4.01	50605
0.89	50608	4.40	50553
0.99	50617	4.40	50557
1.00	50457	6.10	50569
1.10	50576	7.90	50573

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.92	100.00


Parameter=1% light depth (m) River Kilometer=21.9 Level=Column
50
40
30
20
10
0
Percent
1.2
2
2.8
3.6
4.4
5.2
6
6.8
7.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=23.6 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	2.25570881	**Sum Observations**	588.74
Std Deviation	0.98736283	**Variance**	0.97488536
Skewness	2.52841625	**Kurtosis**	11.114506
Uncorrected SS	1581.4962	**Corrected SS**	253.470194
Coeff Variation	43.7717327	**Std Error Mean**	0.06111622

Basic Statistical Measures			
Location		**Variability**	
Mean	2.255709	**Std Deviation**	0.98736
Median	2.100000	**Variance**	0.97489
Mode	1.800000	**Range**	7.22000
		Interquartile Range	1.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.90851	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

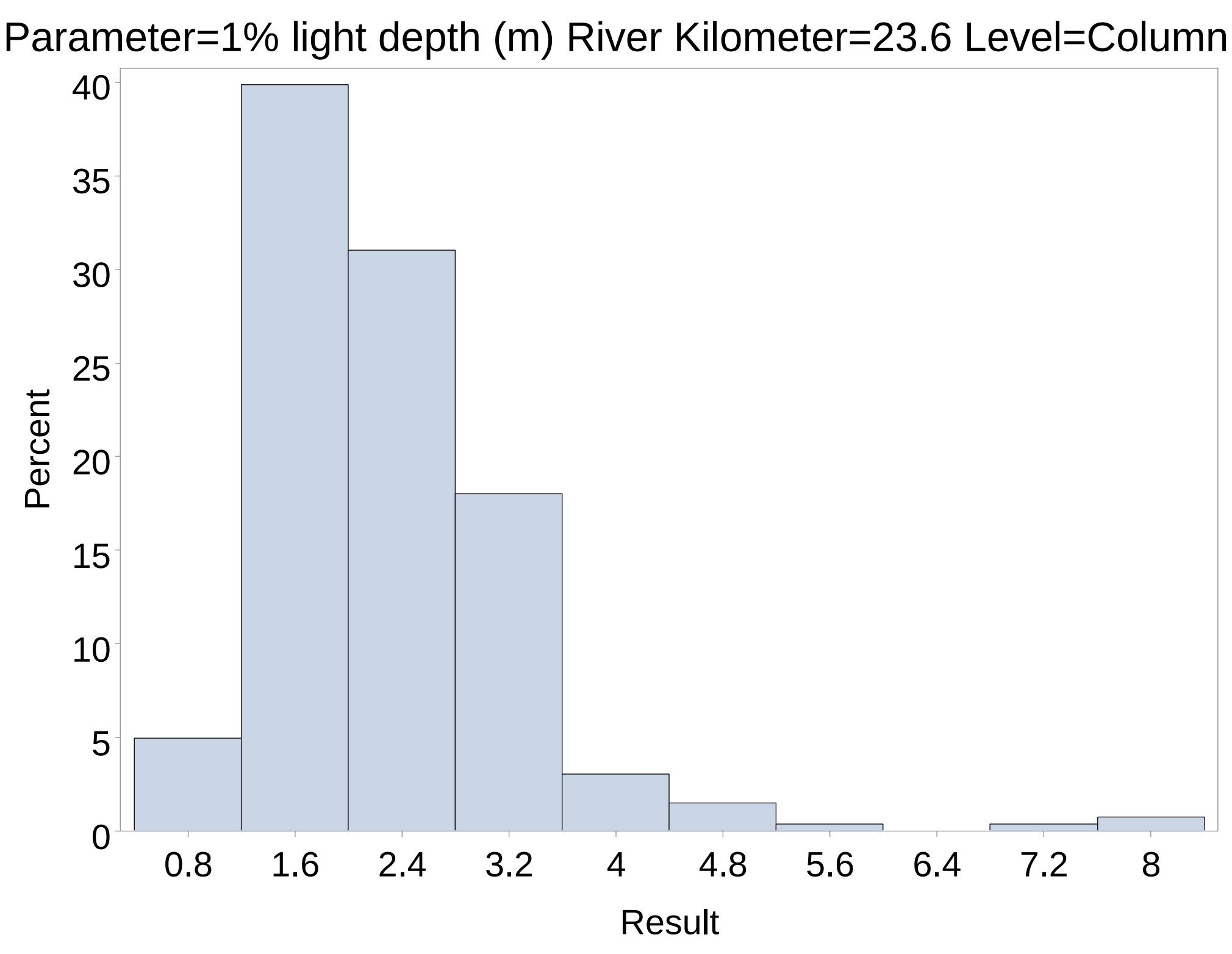
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.10
99%	7.40
95%	3.80
90%	3.20
75% Q3	2.60
50% Median	2.10
25% Q1	1.60
10%	1.40
5%	1.20
1%	0.96
0% Min	0.88

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=23.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.88	50870	5.1	50688
0.90	50641	5.2	50643
0.96	50849	7.4	50642
1.00	50660	8.1	50678
1.00	50650	8.1	50821

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


Parameter=1% light depth (m) River Kilometer=23.6 Level=Column
Percent
40
35
30
25
20
15
10
5
0
0.8
1.6
2.4
3.2
4
4.8
5.6
6.4
7.2
8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=24.7 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	2.19130841	**Sum Observations**	468.94
Std Deviation	0.75665074	**Variance**	0.57252035
Skewness	1.26880616	**Kurtosis**	2.89591777
Uncorrected SS	1149.539	**Corrected SS**	121.946834
Coeff Variation	34.5296325	**Std Error Mean**	0.05172358

Basic Statistical Measures			
Location		**Variability**	
Mean	2.191308	**Std Deviation**	0.75665
Median	2.100000	**Variance**	0.57252
Mode	1.700000	**Range**	5.14000
		Interquartile Range	0.99000

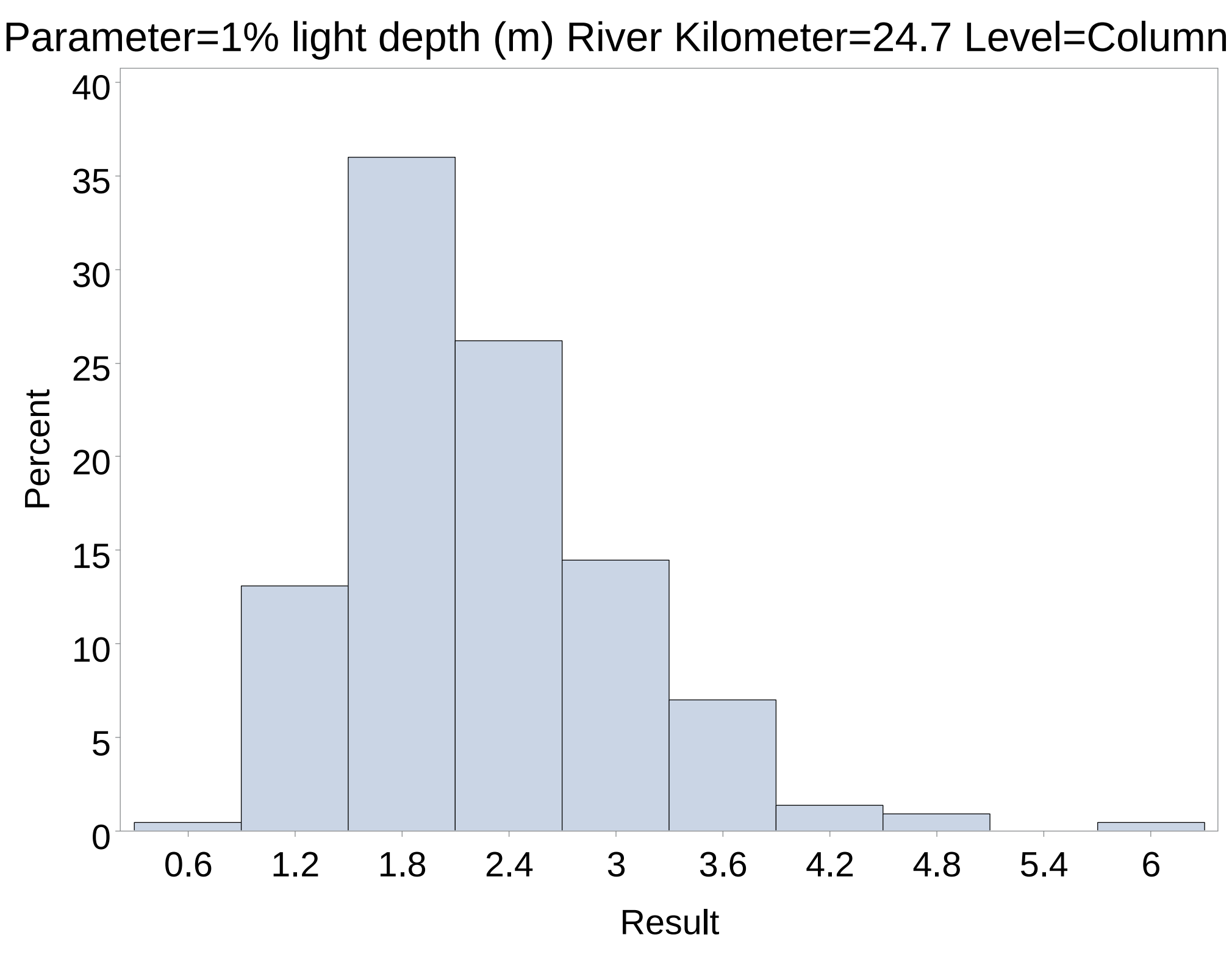
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.36575	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.00
99%	4.60
95%	3.50
90%	3.20
75% Q3	2.60
50% Median	2.10
25% Q1	1.61
10%	1.40
5%	1.24
1%	1.10
0% Min	0.86

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=24.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.86	51085	4.0	50966
1.07	51088	4.0	51046
1.10	50929	4.6	51050
1.20	51030	4.8	50965
1.20	51029	6.0	50895


Parameter=1% light depth (m) River Kilometer=24.7 Level=Column
Percent
40
35
30
25
20
15
10
5
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=25.9 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	2.15990654	**Sum Observations**	462.22
Std Deviation	0.74778734	**Variance**	0.55918591
Skewness	0.69317403	**Kurtosis**	-0.1705865
Uncorrected SS	1117.4586	**Corrected SS**	119.106598
Coeff Variation	34.6212823	**Std Error Mean**	0.05111769

Basic Statistical Measures			
Location		**Variability**	
Mean	2.159907	**Std Deviation**	0.74779
Median	2.000000	**Variance**	0.55919
Mode	1.600000	**Range**	3.64000
		Interquartile Range	1.16000

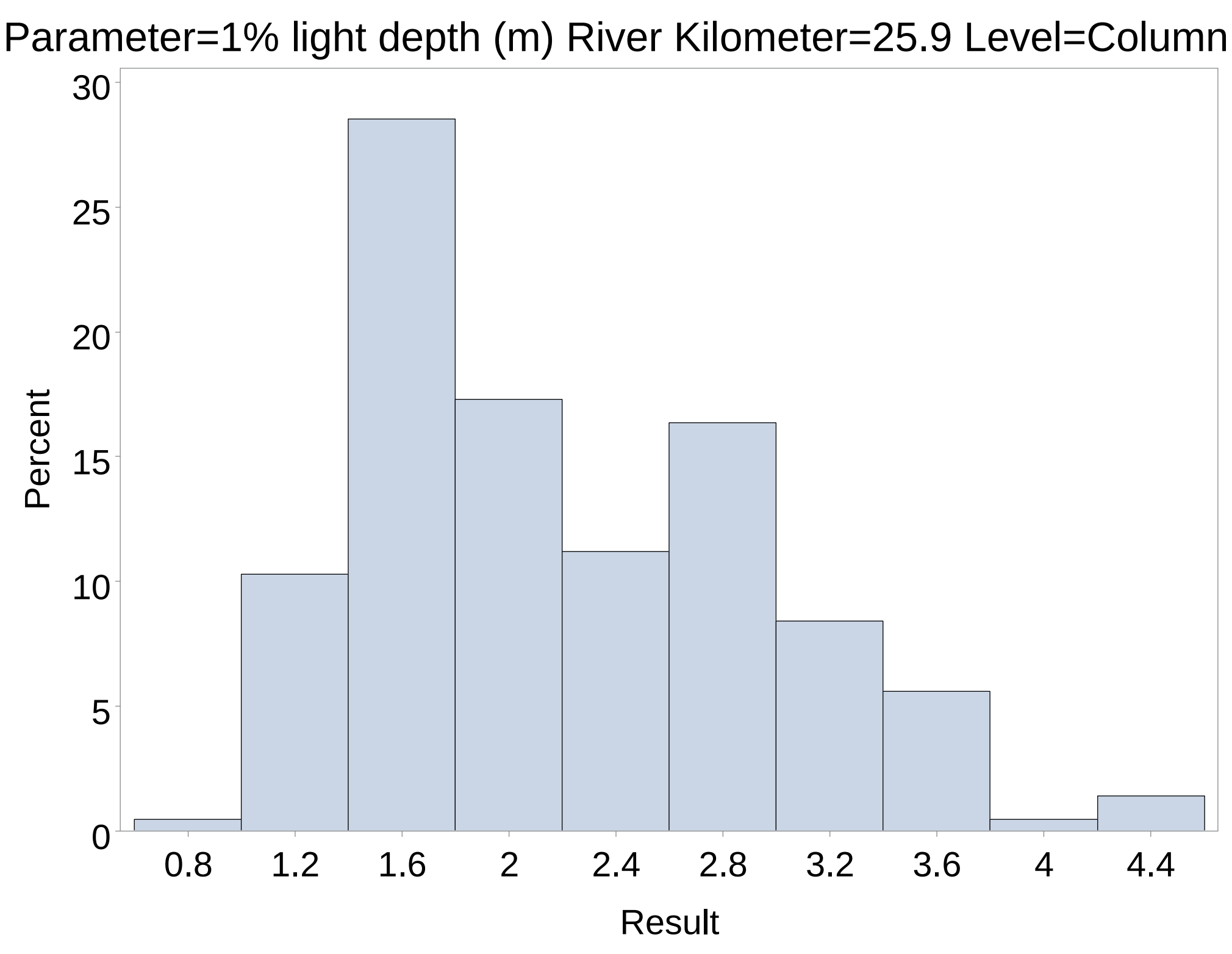
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.2536	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.50
99%	4.30
95%	3.40
90%	3.30
75% Q3	2.70
50% Median	2.00
25% Q1	1.54
10%	1.36
5%	1.25
1%	1.04
0% Min	0.86

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=25.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.86	51298	3.7	51187
1.00	51155	4.1	51260
1.04	51301	4.3	51178
1.10	51142	4.4	51175
1.10	51113	4.5	51188


Parameter=1% light depth (m) River Kilometer=25.9 Level=Column
30
25
20
15
10
5
0
Percent
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
4.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=29.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	2.27717593	**Sum Observations**	491.87
Std Deviation	1.05029205	**Variance**	1.10311338
Skewness	2.56423009	**Kurtosis**	11.359607
Uncorrected SS	1357.2439	**Corrected SS**	237.169377
Coeff Variation	46.1225694	**Std Error Mean**	0.07146332

Basic Statistical Measures			
Location		**Variability**	
Mean	2.277176	**Std Deviation**	1.05029
Median	2.000000	**Variance**	1.10311
Mode	1.500000	**Range**	8.27000
		Interquartile Range	1.10000

Note: The mode displayed is the smallest of 2 modes with a count of 12.

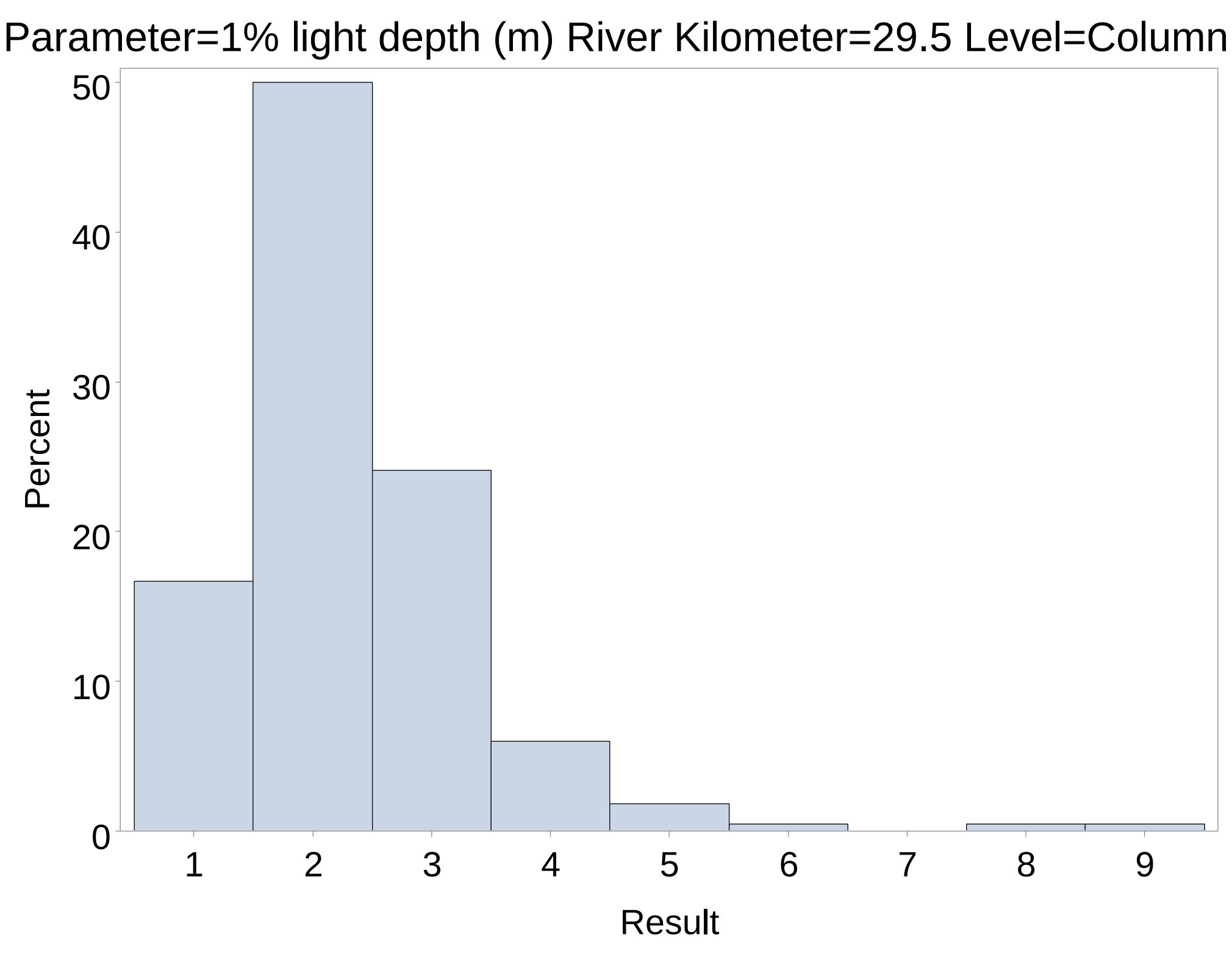
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.86496	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.20
99%	6.00
95%	4.20
90%	3.36
75% Q3	2.70
50% Median	2.00
25% Q1	1.60
10%	1.31
5%	1.26
1%	0.98
0% Min	0.93

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=29.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.93	51514	5.1	51337
0.96	51515	5.1	51396
0.98	51517	6.0	51323
1.00	51479	7.6	51465
1.00	51357	9.2	51468


Parameter=1% light depth (m) River Kilometer=29.5 Level=Column
Percent
50
40
30
20
10
0
1
2
3
4
5
6
7
8
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=30.7 Level=Column

Moments			
N	255	**Sum Weights**	255
Mean	2.29478431	**Sum Observations**	585.17
Std Deviation	1.18811099	**Variance**	1.41160773
Skewness	3.49459986	**Kurtosis**	20.8026374
Uncorrected SS	1701.3873	**Corrected SS**	358.548363
Coeff Variation	51.7744079	**Std Error Mean**	0.0744024

Basic Statistical Measures			
Location		**Variability**	
Mean	2.294784	**Std Deviation**	1.18811
Median	2.000000	**Variance**	1.41161
Mode	1.700000	**Range**	10.80000
		Interquartile Range	1.18000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.84288	**Pr > |t|**	<.0001
Sign	**M**	127.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	16320	**Pr >= |S|**	<.0001

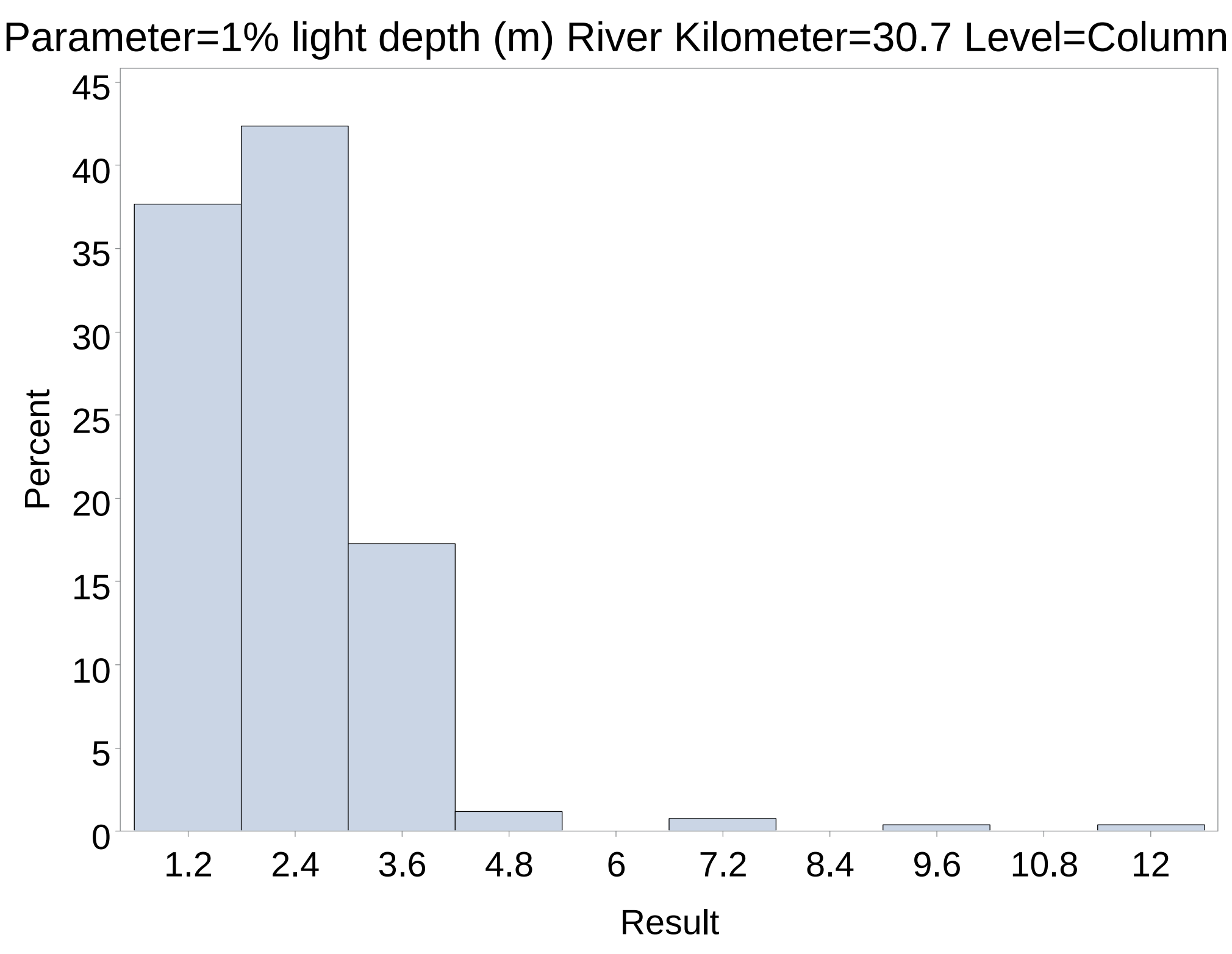
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.70
99%	7.10
95%	3.90
90%	3.40
75% Q3	2.70
50% Median	2.00
25% Q1	1.52
10%	1.30
5%	1.17
1%	0.90
0% Min	0.90

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=30.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.9	51565	5.2	51652
0.9	51555	7.0	51722
0.9	51546	7.1	51537
0.9	51542	9.4	51732
0.9	51541	11.7	51548

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.39	100.00


Parameter=1% light depth (m) River Kilometer=30.7 Level=Column
Percent
0
5
10
15
20
25
30
35
40
45
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=32.3 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	2.4427907	**Sum Observations**	525.2
Std Deviation	1.58239072	**Variance**	2.5039604
Skewness	4.76296162	**Kurtosis**	34.4803021
Uncorrected SS	1818.8012	**Corrected SS**	535.847526
Coeff Variation	64.7779904	**Std Error Mean**	0.10791815

Basic Statistical Measures			
Location		**Variability**	
Mean	2.442791	**Std Deviation**	1.58239
Median	2.000000	**Variance**	2.50396
Mode	1.300000	**Range**	15.61000
		Interquartile Range	1.40000

Note: The mode displayed is the smallest of 2 modes with a count of 12.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.63559	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

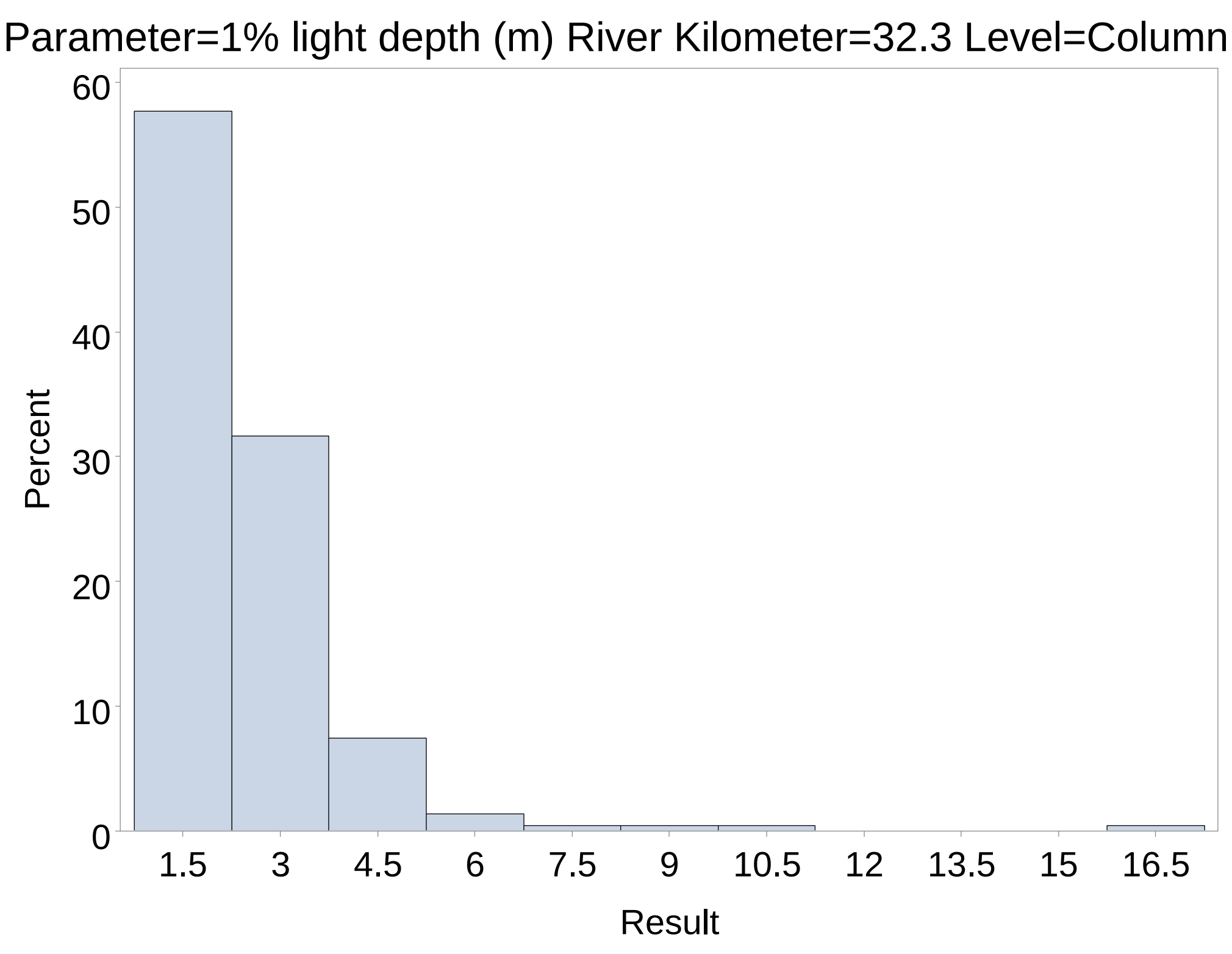
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.60
99%	9.50
95%	4.30
90%	3.90
75% Q3	2.90
50% Median	2.00
25% Q1	1.50
10%	1.30
5%	1.28
1%	1.02
0% Min	0.99

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=1% light depth (m) River Kilometer=32.3 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.99	51986	5.6	51909
1.00	51916	6.9	51937
1.02	51987	9.5	51947
1.10	51829	11.0	51797
1.12	51989	16.6	51940

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=1% light depth (m) River Kilometer=32.3 Level=Column
60
50
40
30
20
10
0
Percent
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=-2.4 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	2.35563218	**Sum Observations**	614.82
Std Deviation	1.13787187	**Variance**	1.29475239
Skewness	1.38501325	**Kurtosis**	6.16451019
Uncorrected SS	1784.9254	**Corrected SS**	336.635621
Coeff Variation	48.3043098	**Std Error Mean**	0.0704325

Basic Statistical Measures			
Location		**Variability**	
Mean	2.355632	**Std Deviation**	1.13787
Median	2.300000	**Variance**	1.29475
Mode	2.200000	**Range**	9.20000
		Interquartile Range	1.60000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.44524	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

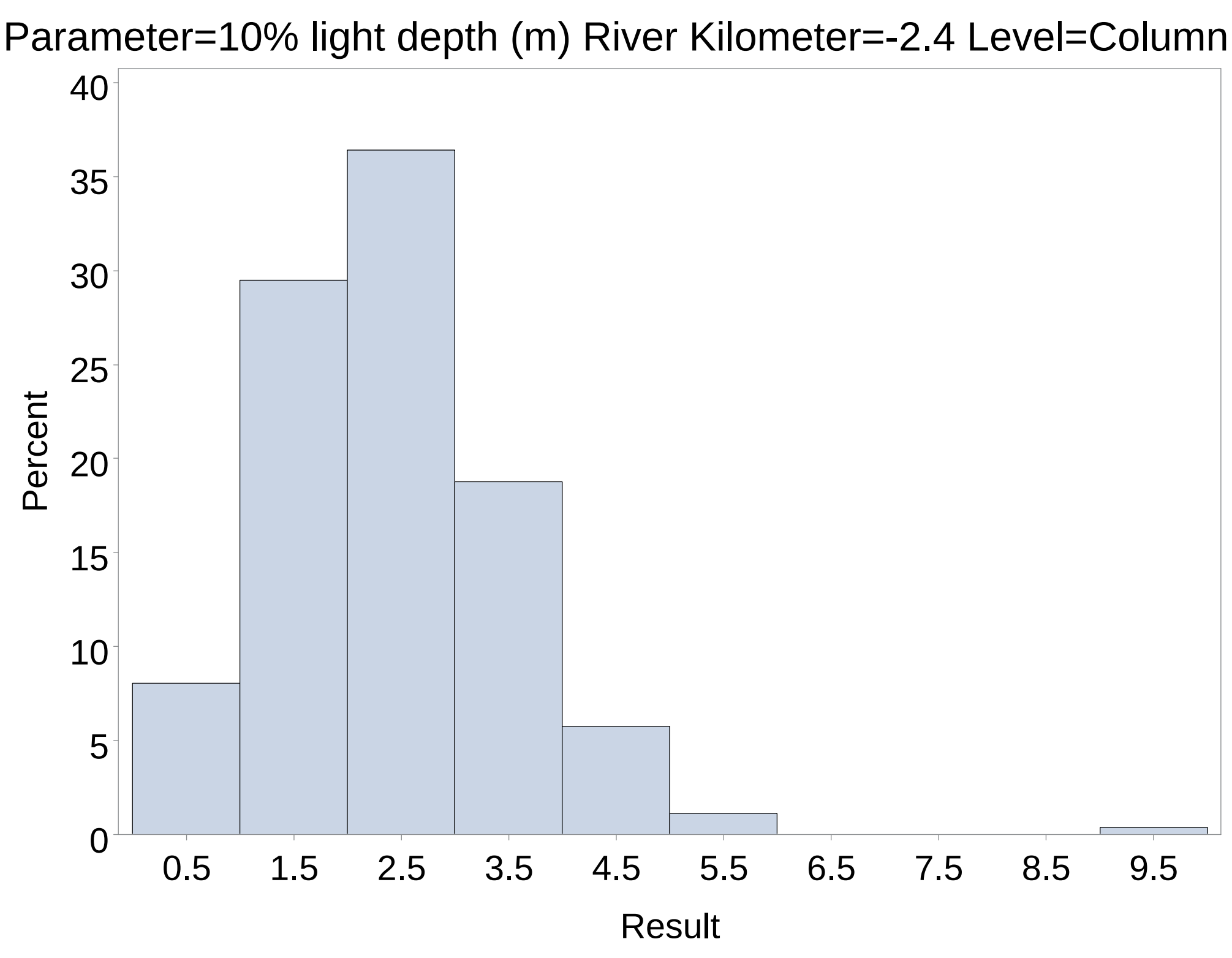
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.80
99%	5.18
95%	4.30
90%	3.70
75% Q3	3.00
50% Median	2.30
25% Q1	1.40
10%	1.00
5%	0.90
1%	0.70
0% Min	0.60

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=-2.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.60	52022	4.94	52241
0.69	52252	5.00	52055
0.70	52202	5.18	52245
0.70	52113	5.70	52189
0.70	52083	9.80	52128

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


Parameter=10% light depth (m) River Kilometer=-2.4 Level=Column
Percent
40
35
30
25
20
15
10
5
0
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=6.6 Level=Column

Moments			
N	262	**Sum Weights**	262
Mean	1.57427481	**Sum Observations**	412.46
Std Deviation	0.67693306	**Variance**	0.45823836
Skewness	0.90529213	**Kurtosis**	0.92864644
Uncorrected SS	768.9256	**Corrected SS**	119.600212
Coeff Variation	42.9996752	**Std Error Mean**	0.04182106

Basic Statistical Measures			
Location		**Variability**	
Mean	1.574275	**Std Deviation**	0.67693
Median	1.400000	**Variance**	0.45824
Mode	1.400000	**Range**	4.00000
		Interquartile Range	0.90000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.64311	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

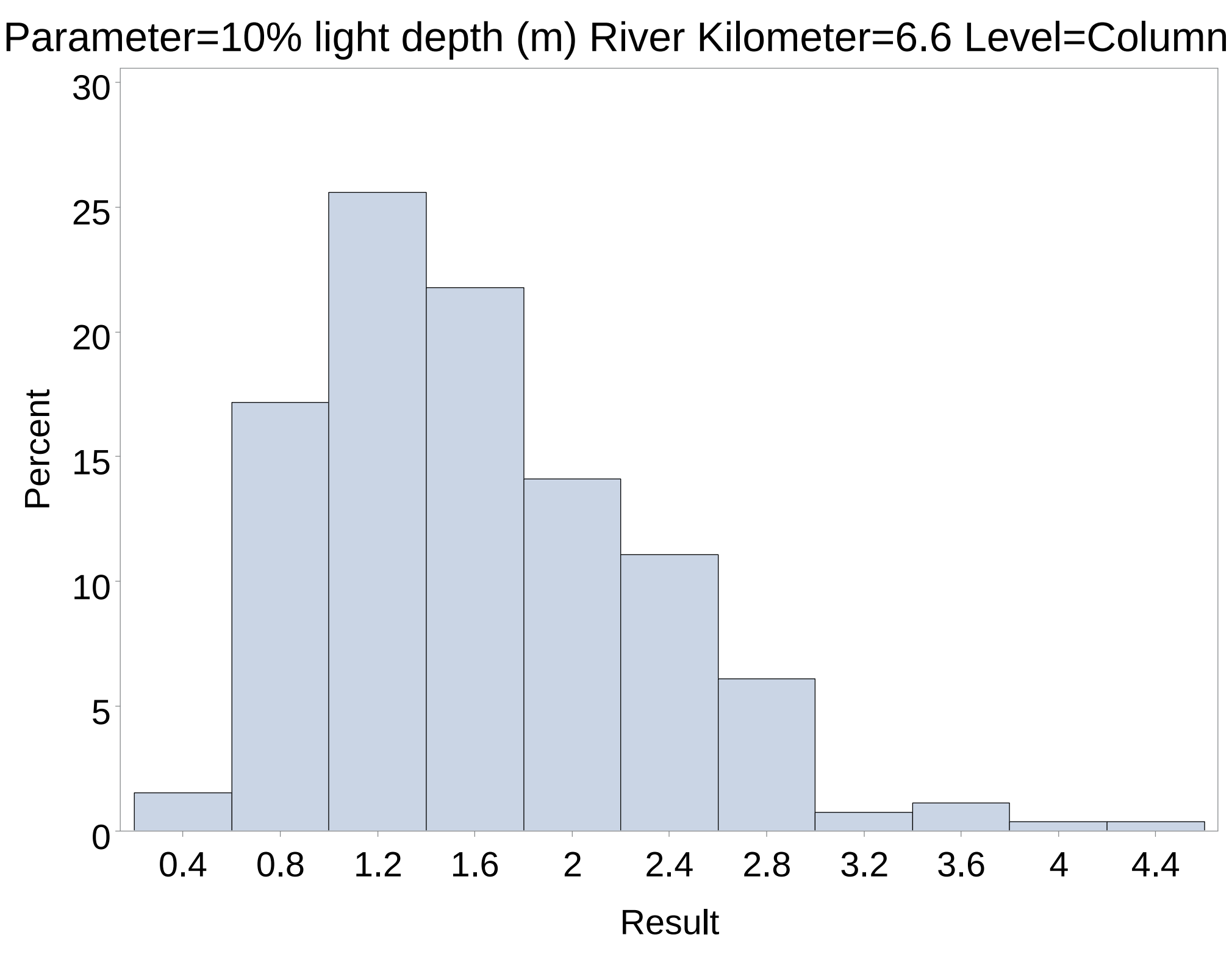
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.30
99%	3.60
95%	2.70
90%	2.50
75% Q3	2.00
50% Median	1.40
25% Q1	1.10
10%	0.80
5%	0.71
1%	0.50
0% Min	0.30

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=6.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	52282	3.41	52519
0.50	52465	3.50	52328
0.50	52291	3.60	52381
0.53	52515	4.00	52508
0.60	52285	4.30	52283

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


Parameter=10% light depth (m) River Kilometer=6.6 Level=Column
30
25
20
15
10
5
0
Percent
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
4.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=8.4 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	1.44779817	**Sum Observations**	315.62
Std Deviation	0.63990546	**Variance**	0.409479
Skewness	1.22119222	**Kurtosis**	2.64084037
Uncorrected SS	545.811	**Corrected SS**	88.8569431
Coeff Variation	44.1985269	**Std Error Mean**	0.04333987

Basic Statistical Measures			
Location		**Variability**	
Mean	1.447798	**Std Deviation**	0.63991
Median	1.300000	**Variance**	0.40948
Mode	1.000000	**Range**	4.20000
		Interquartile Range	0.83000

Note: The mode displayed is the smallest of 4 modes with a count of 14.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.40569	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

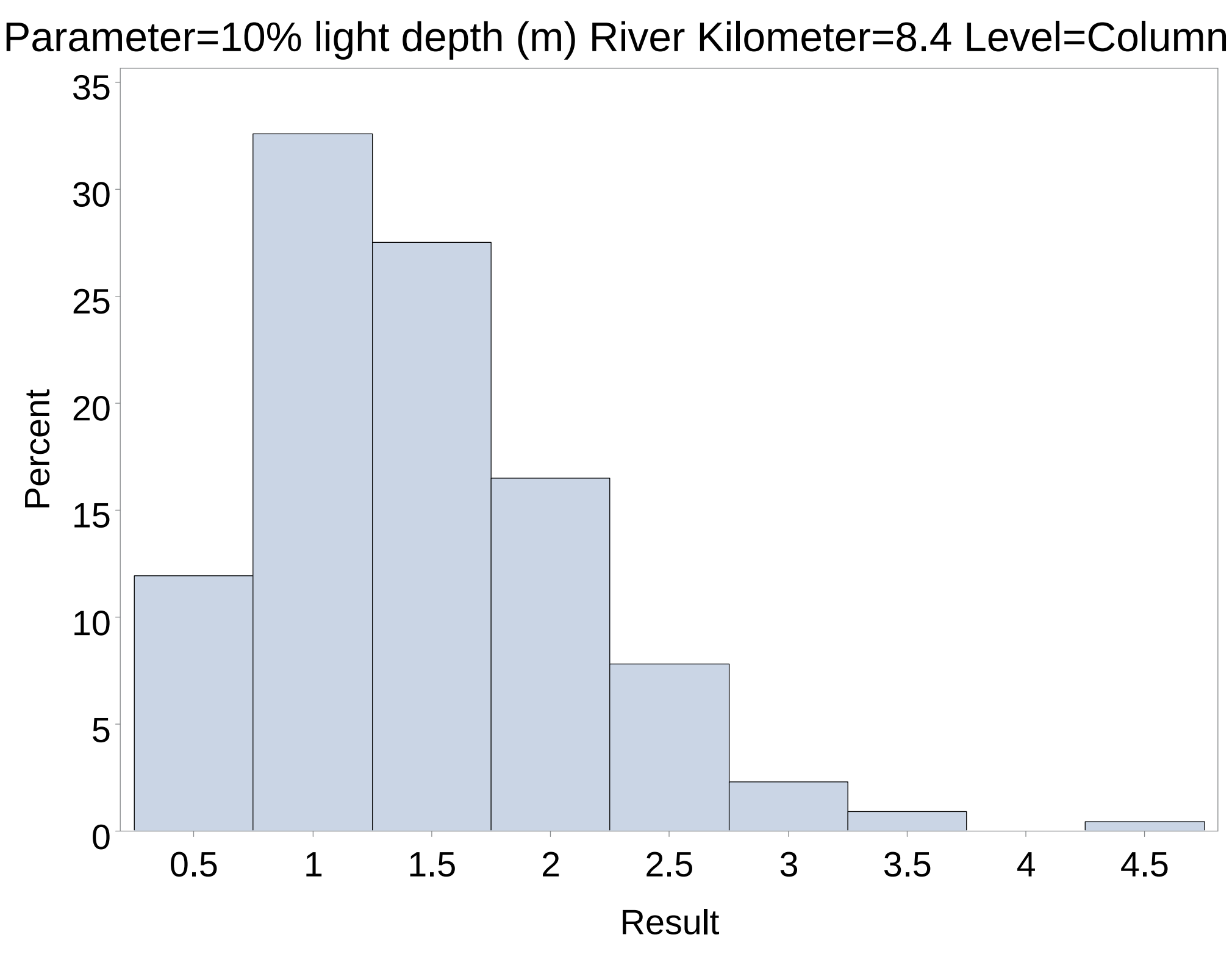
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.70
99%	3.30
95%	2.70
90%	2.30
75% Q3	1.83
50% Median	1.30
25% Q1	1.00
10%	0.70
5%	0.66
1%	0.59
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=8.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	52734	3.00	52680
0.56	52709	3.10	52647
0.59	52731	3.30	52671
0.60	52664	3.36	52727
0.60	52581	4.70	52537

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=10% light depth (m) River Kilometer=8.4 Level=Column
35
30
25
20
15
10
5
0
Percent
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=10.5 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	1.38605505	**Sum Observations**	302.16
Std Deviation	0.63309134	**Variance**	0.40080464
Skewness	1.11552435	**Kurtosis**	1.05278077
Uncorrected SS	505.785	**Corrected SS**	86.9746073
Coeff Variation	45.6757717	**Std Error Mean**	0.04287836

Basic Statistical Measures			
Location		**Variability**	
Mean	1.386055	**Std Deviation**	0.63309
Median	1.200000	**Variance**	0.40080
Mode	0.800000	**Range**	3.10000
		Interquartile Range	0.80000

Note: The mode displayed is the smallest of 2 modes with a count of 16.

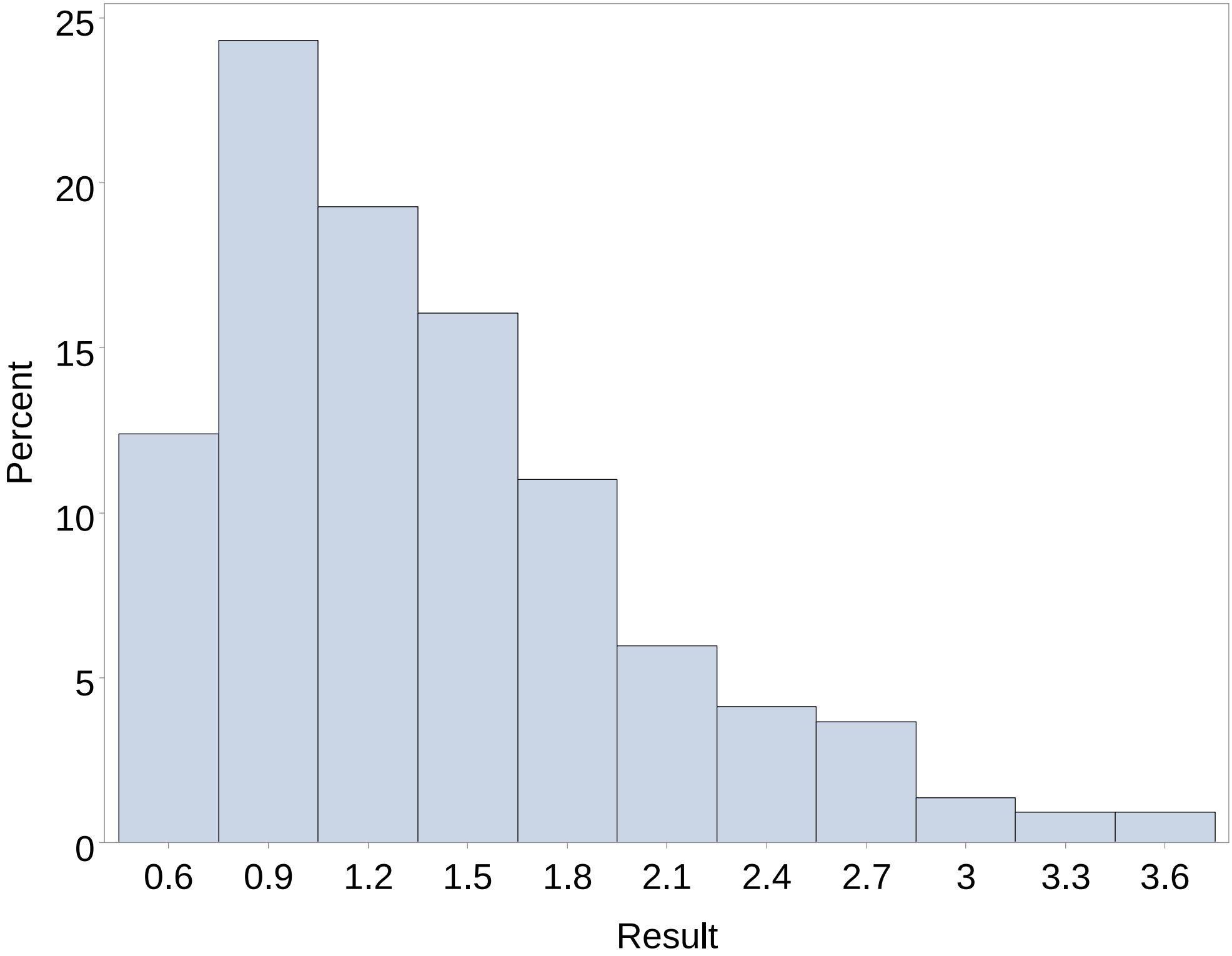
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.32528	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.60
99%	3.38
95%	2.60
90%	2.30
75% Q3	1.70
50% Median	1.20
25% Q1	0.90
10%	0.70
5%	0.66
1%	0.58
0% Min	0.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=10.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	52800	3.10	52865
0.51	52952	3.30	52900
0.58	52949	3.38	52946
0.60	52786	3.50	52756
0.60	52763	3.60	52819


25
20
15
10
5
0
Percent
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
3.3
3.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=12.7 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	1.22619266	**Sum Observations**	267.31
Std Deviation	0.49339947	**Variance**	0.24344304
Skewness	1.34417246	**Kurtosis**	2.84503792
Uncorrected SS	380.6007	**Corrected SS**	52.8271399
Coeff Variation	40.238332	**Std Error Mean**	0.03341723

Basic Statistical Measures			
Location		**Variability**	
Mean	1.226193	**Std Deviation**	0.49340
Median	1.100000	**Variance**	0.24344
Mode	0.800000	**Range**	3.16000
		Interquartile Range	0.63000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.69343	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

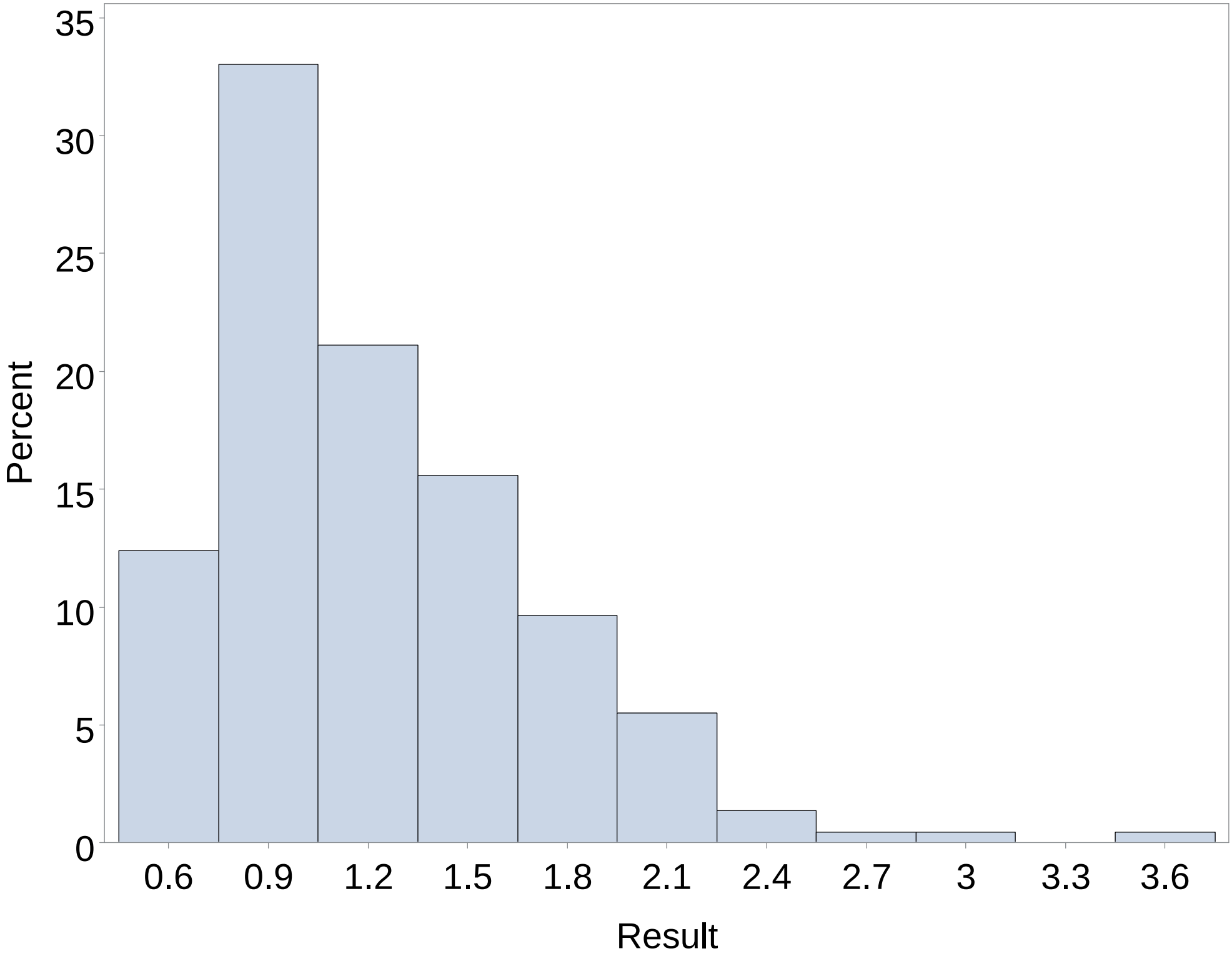
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.70
99%	2.73
95%	2.10
90%	1.90
75% Q3	1.50
50% Median	1.10
25% Q1	0.87
10%	0.70
5%	0.66
1%	0.58
0% Min	0.54

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=12.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.54	53168	2.50	53048
0.56	53172	2.50	53108
0.58	53171	2.73	53165
0.59	53180	3.00	53037
0.60	53018	3.70	52974

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


35
30
25
20
15
10
5
0
Percent
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
3.3
3.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=12.8 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	1.27316514	**Sum Observations**	277.55
Std Deviation	0.58013075	**Variance**	0.33655169
Skewness	1.46806905	**Kurtosis**	3.32908401
Uncorrected SS	426.3987	**Corrected SS**	73.0317161
Coeff Variation	45.5660254	**Std Error Mean**	0.03929141

Basic Statistical Measures			
Location		**Variability**	
Mean	1.273165	**Std Deviation**	0.58013
Median	1.100000	**Variance**	0.33655
Mode	0.800000	**Range**	3.56000
		Interquartile Range	0.70000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.40314	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

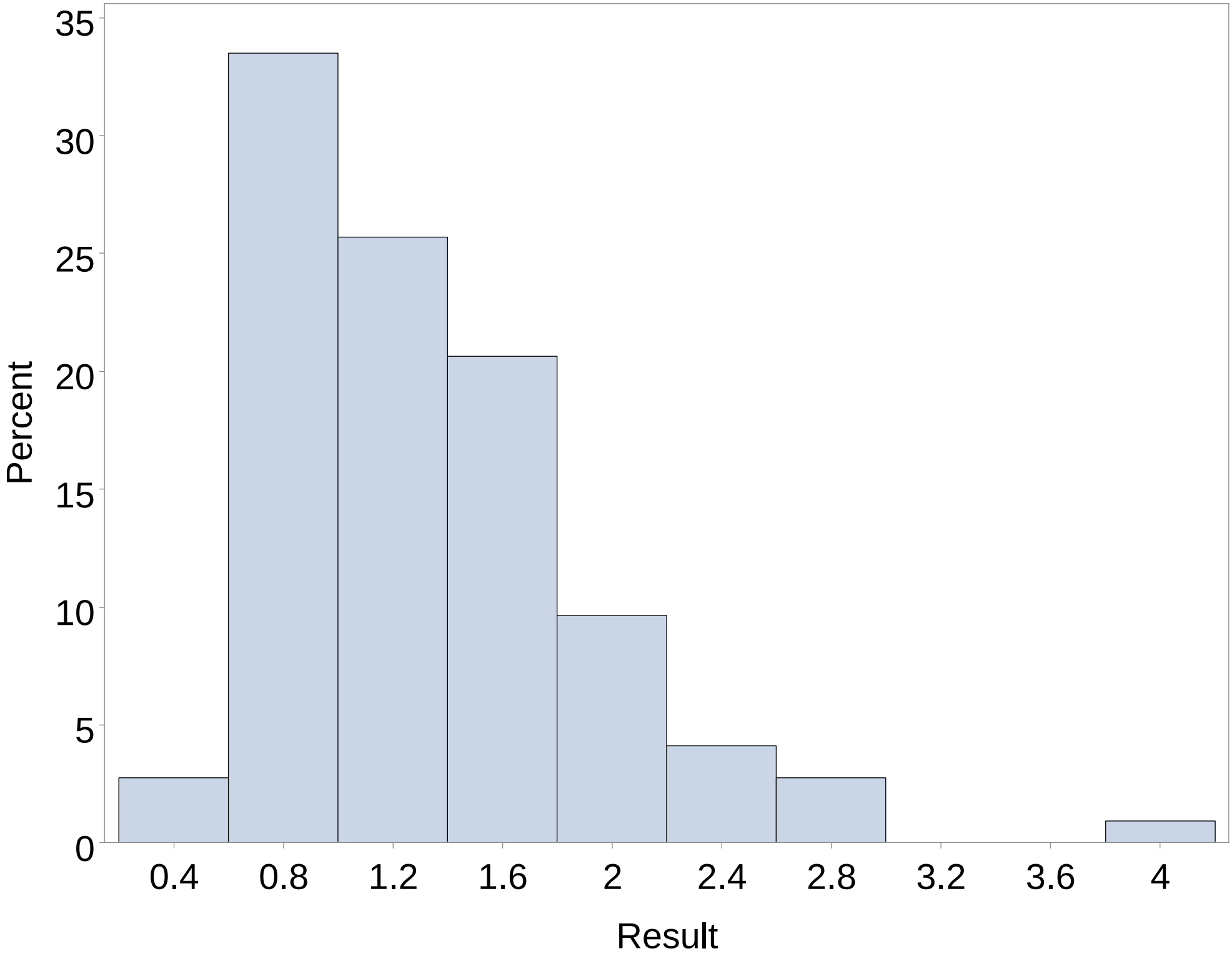
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.00
99%	2.90
95%	2.40
90%	2.10
75% Q3	1.50
50% Median	1.10
25% Q1	0.80
10%	0.70
5%	0.63
1%	0.50
0% Min	0.44

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=12.8 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.44	53378	2.7	53256
0.49	53387	2.7	53384
0.50	53235	2.9	53191
0.52	53390	3.9	53192
0.55	53401	4.0	53193

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


35
30
25
20
15
10
5
0
Percent
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=15.5 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	1.21260536	**Sum Observations**	316.49
Std Deviation	0.54443064	**Variance**	0.29640472
Skewness	1.65553606	**Kurtosis**	4.87248005
Uncorrected SS	460.8427	**Corrected SS**	77.0652284
Coeff Variation	44.8975948	**Std Error Mean**	0.03369941

Basic Statistical Measures			
Location		**Variability**	
Mean	1.212605	**Std Deviation**	0.54443
Median	1.100000	**Variance**	0.29640
Mode	0.800000	**Range**	3.73000
		Interquartile Range	0.70000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.98298	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

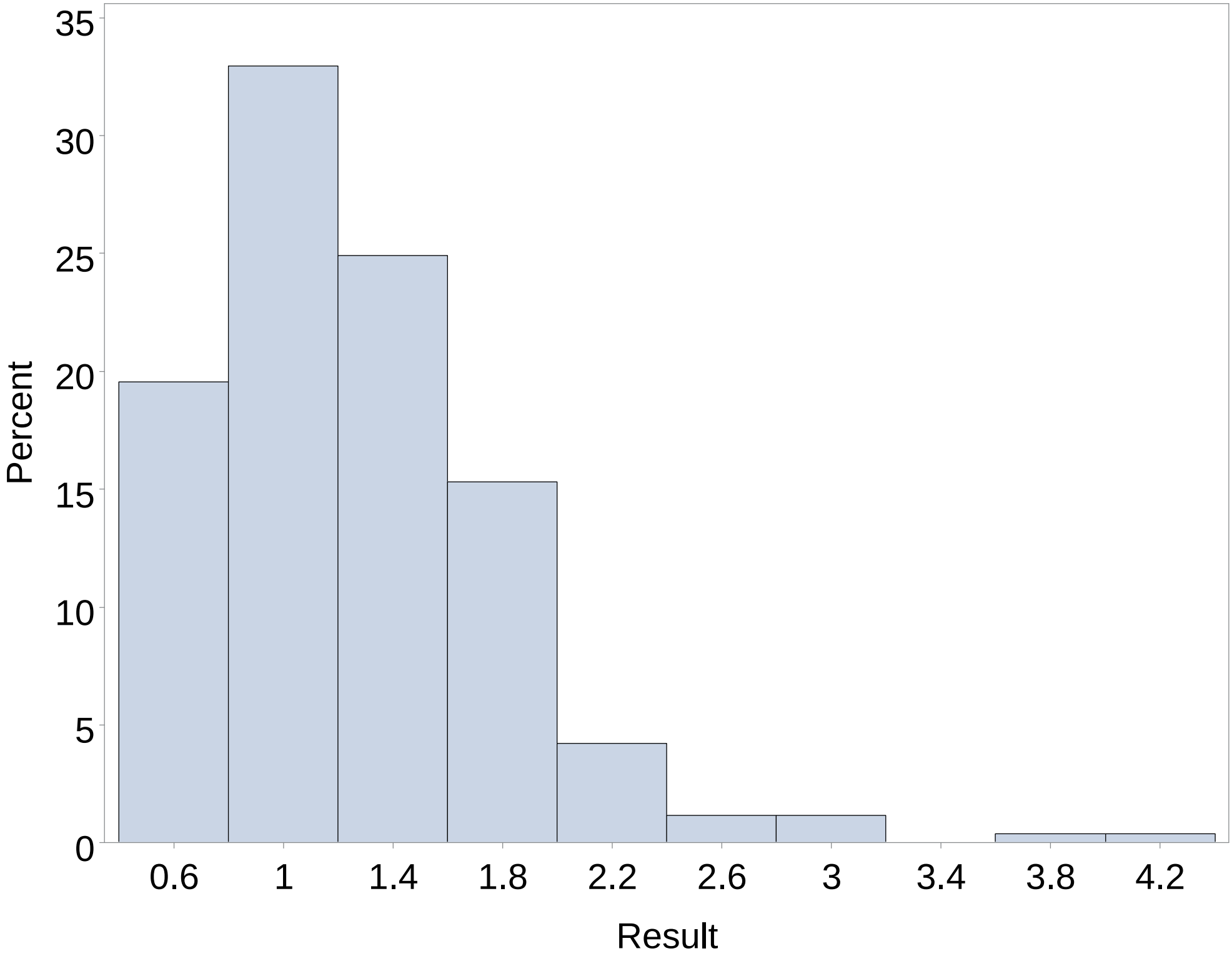
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.20
99%	3.00
95%	2.07
90%	1.90
75% Q3	1.50
50% Median	1.10
25% Q1	0.80
10%	0.70
5%	0.60
1%	0.50
0% Min	0.47

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=15.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.47	53650	2.90	53422
0.48	53664	2.93	53647
0.50	53499	3.00	53531
0.50	53432	3.70	53530
0.50	53429	4.20	53457

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


35
30
25
20
15
10
5
0
Percent
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
4.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=17.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	1.19805556	**Sum Observations**	258.78
Std Deviation	0.52084361	**Variance**	0.27127806
Skewness	2.07658611	**Kurtosis**	9.81854209
Uncorrected SS	368.3576	**Corrected SS**	58.3247833
Coeff Variation	43.4740779	**Std Error Mean**	0.03543892

Basic Statistical Measures			
Location		**Variability**	
Mean	1.198056	**Std Deviation**	0.52084
Median	1.075000	**Variance**	0.27128
Mode	0.800000	**Range**	4.33000
		Interquartile Range	0.70000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.80621	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

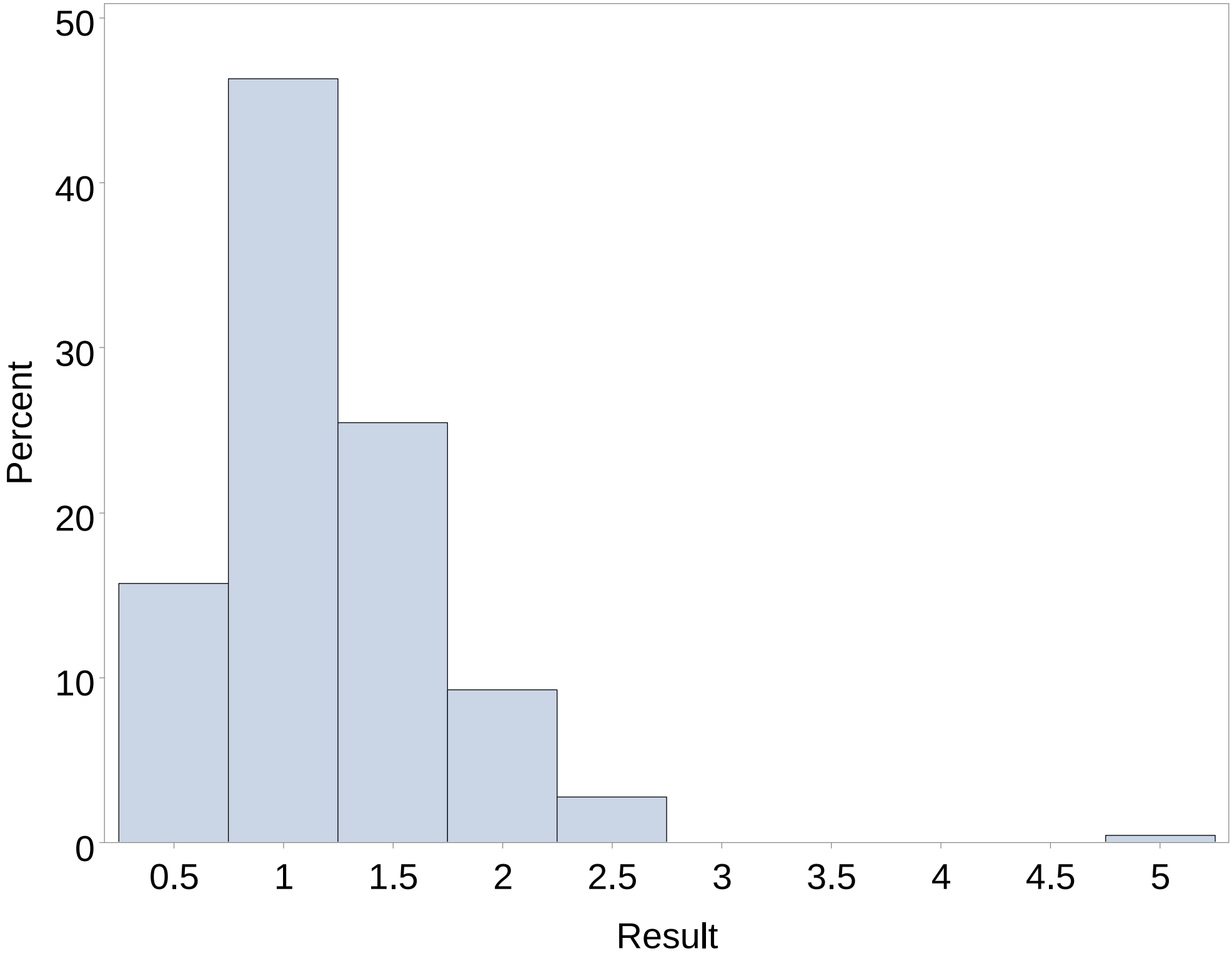
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.800
99%	2.510
95%	2.100
90%	1.800
75% Q3	1.500
50% Median	1.075
25% Q1	0.800
10%	0.700
5%	0.600
1%	0.560
0% Min	0.470

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=17.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.47	53867	2.50	53738
0.55	53876	2.50	53748
0.56	53870	2.51	53864
0.57	53868	2.60	53832
0.60	53833	4.80	53818

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


50
40
30
20
10
0
Percent
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=20.1 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	1.13144186	**Sum Observations**	243.26
Std Deviation	0.44859934	**Variance**	0.20124137
Skewness	1.39107566	**Kurtosis**	3.24532305
Uncorrected SS	318.3002	**Corrected SS**	43.065653
Coeff Variation	39.648466	**Std Error Mean**	0.03059422

Basic Statistical Measures			
Location		**Variability**	
Mean	1.131442	**Std Deviation**	0.44860
Median	1.000000	**Variance**	0.20124
Mode	0.900000	**Range**	2.96000
		Interquartile Range	0.60000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.98221	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

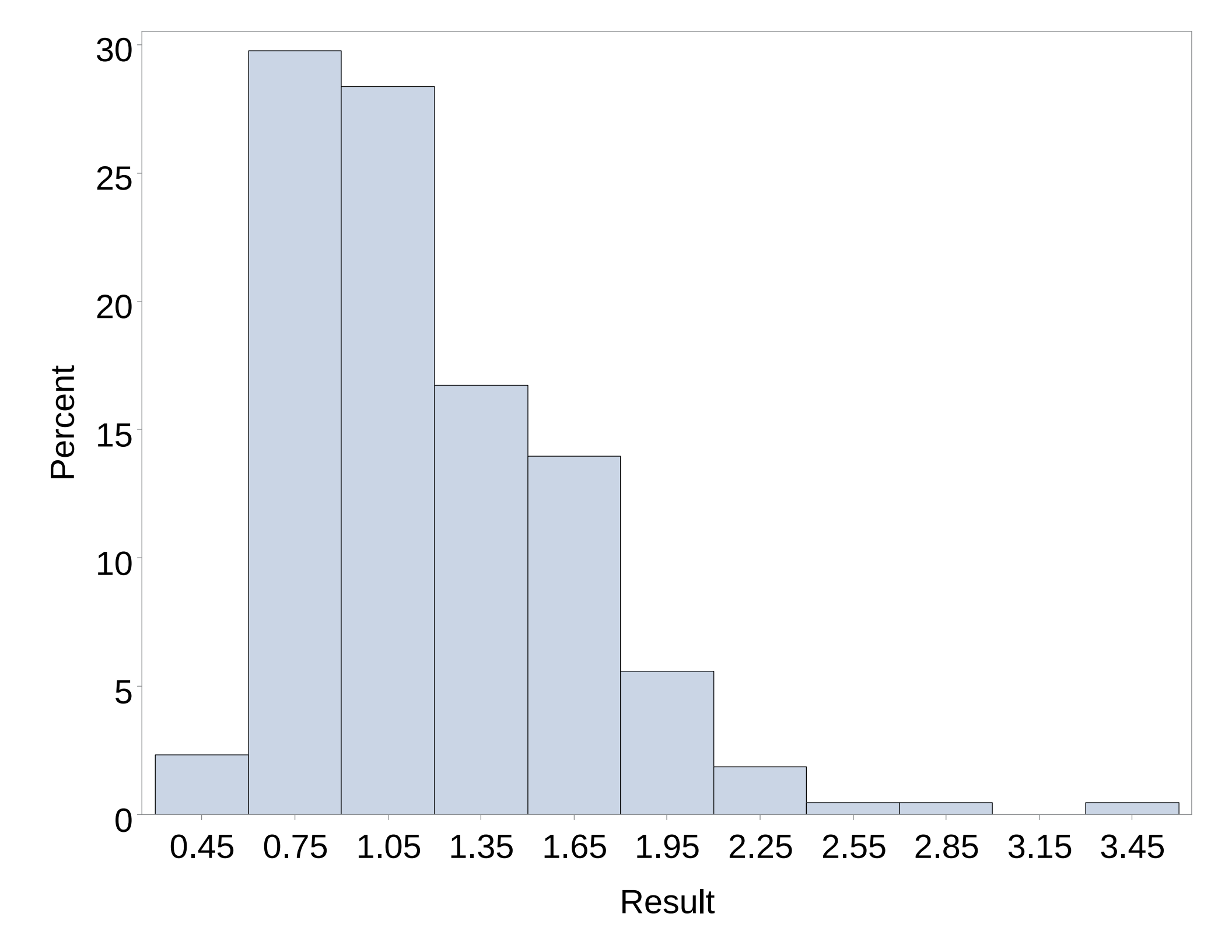
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.40
99%	2.60
95%	1.90
90%	1.70
75% Q3	1.40
50% Median	1.00
25% Q1	0.80
10%	0.70
5%	0.60
1%	0.54
0% Min	0.44

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=20.1 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.44	54083	2.1	53987
0.45	54074	2.1	54048
0.54	54086	2.6	53965
0.57	54092	2.9	54034
0.59	54084	3.4	53892

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


30
25
20
15
10
5
0
Percent
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
3.45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=21.9 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	1.09869767	**Sum Observations**	236.22
Std Deviation	0.41796813	**Variance**	0.17469736
Skewness	2.37033081	**Kurtosis**	12.0663186
Uncorrected SS	296.9196	**Corrected SS**	37.3852353
Coeff Variation	38.0421425	**Std Error Mean**	0.02850519

Basic Statistical Measures			
Location		**Variability**	
Mean	1.098698	**Std Deviation**	0.41797
Median	1.000000	**Variance**	0.17470
Mode	0.800000	**Range**	3.60000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.54378	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

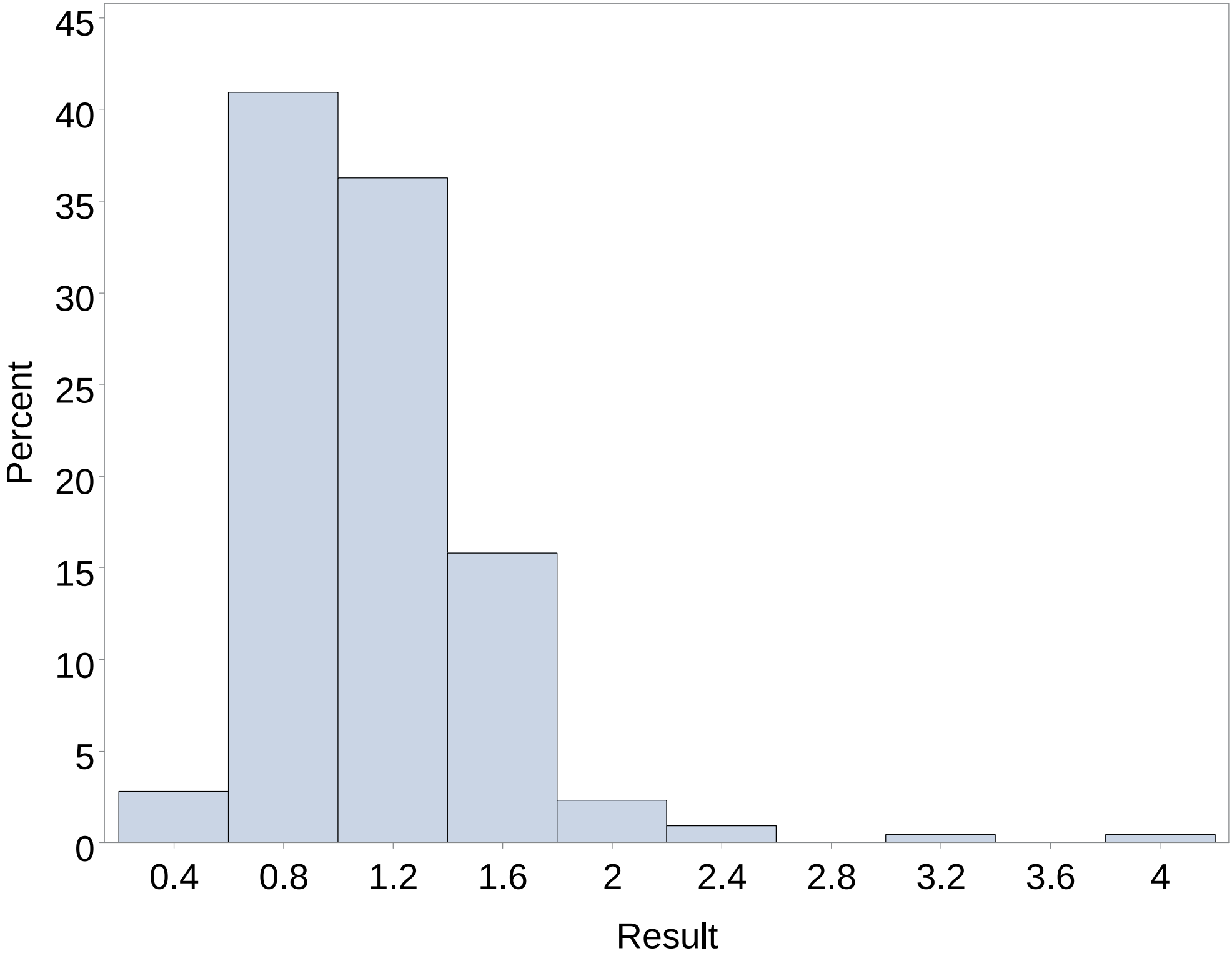
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.00
99%	2.20
95%	1.70
90%	1.50
75% Q3	1.30
50% Median	1.00
25% Q1	0.80
10%	0.70
5%	0.61
1%	0.49
0% Min	0.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=21.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	54266	2.01	54297
0.45	54300	2.20	54245
0.49	54309	2.20	54249
0.50	54149	3.10	54261
0.57	54313	4.00	54265

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.92	100.00


45
40
35
30
25
20
15
10
5
0
Percent
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=23.6 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	1.12827586	**Sum Observations**	294.48
Std Deviation	0.49204254	**Variance**	0.24210586
Skewness	2.52279947	**Kurtosis**	11.221023
Uncorrected SS	395.2022	**Corrected SS**	62.9475241
Coeff Variation	43.6101274	**Std Error Mean**	0.03045667

Basic Statistical Measures			
Location		**Variability**	
Mean	1.128276	**Std Deviation**	0.49204
Median	1.000000	**Variance**	0.24211
Mode	0.800000	**Range**	3.70000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.04528	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

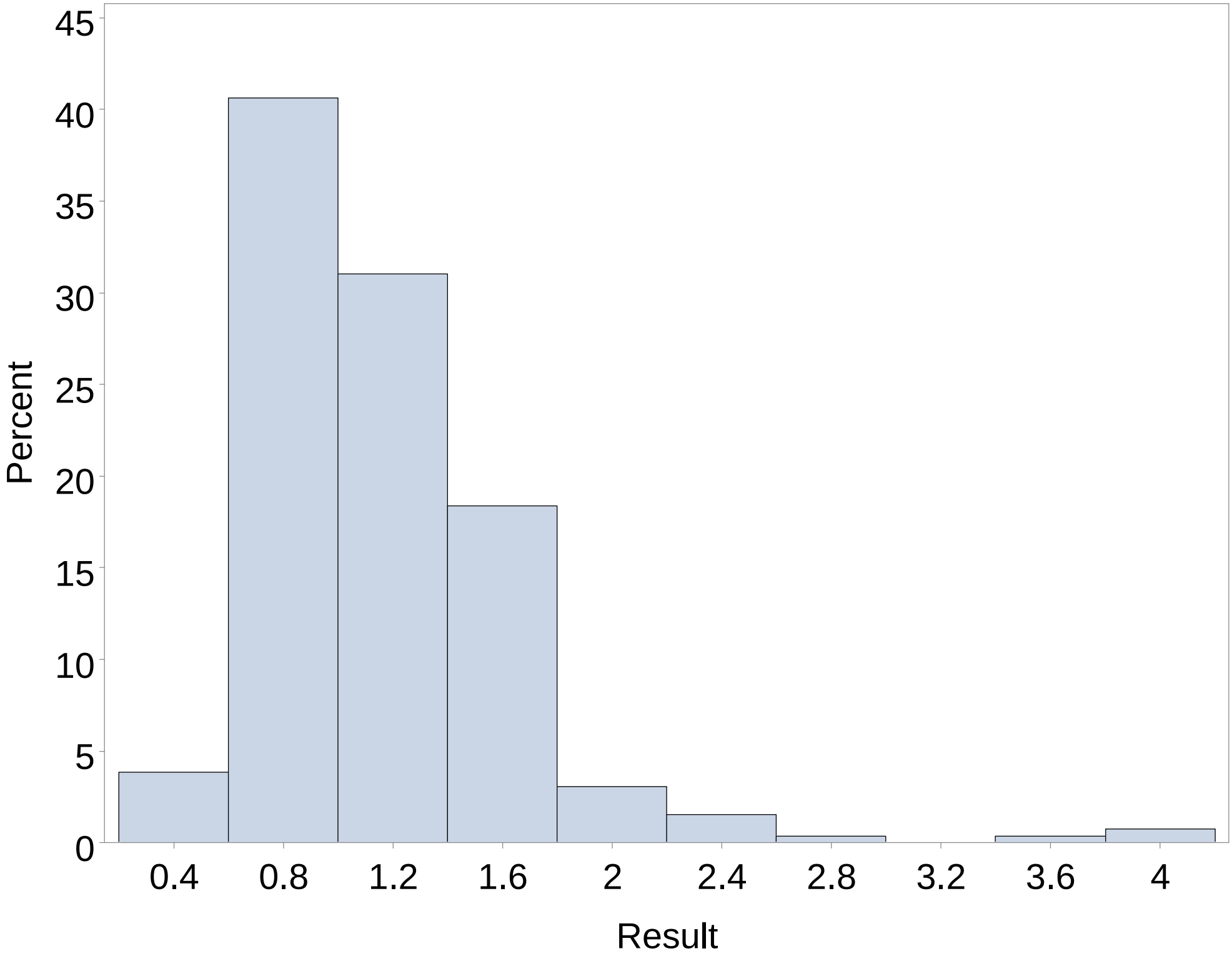
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.10
99%	3.70
95%	1.90
90%	1.60
75% Q3	1.30
50% Median	1.00
25% Q1	0.80
10%	0.70
5%	0.60
1%	0.48
0% Min	0.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=23.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	54333	2.5	54380
0.44	54562	2.6	54335
0.48	54541	3.7	54334
0.50	54352	4.0	54513
0.50	54342	4.1	54370

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


45
40
35
30
25
20
15
10
5
0
Percent
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=24.7 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	1.09383178	**Sum Observations**	234.08
Std Deviation	0.37875914	**Variance**	0.14345849
Skewness	1.2462967	**Kurtosis**	2.8492255
Uncorrected SS	286.6008	**Corrected SS**	30.5566579
Coeff Variation	34.6268184	**Std Error Mean**	0.02589144

Basic Statistical Measures			
Location		**Variability**	
Mean	1.093832	**Std Deviation**	0.37876
Median	1.000000	**Variance**	0.14346
Mode	0.900000	**Range**	2.57000
		Interquartile Range	0.50000

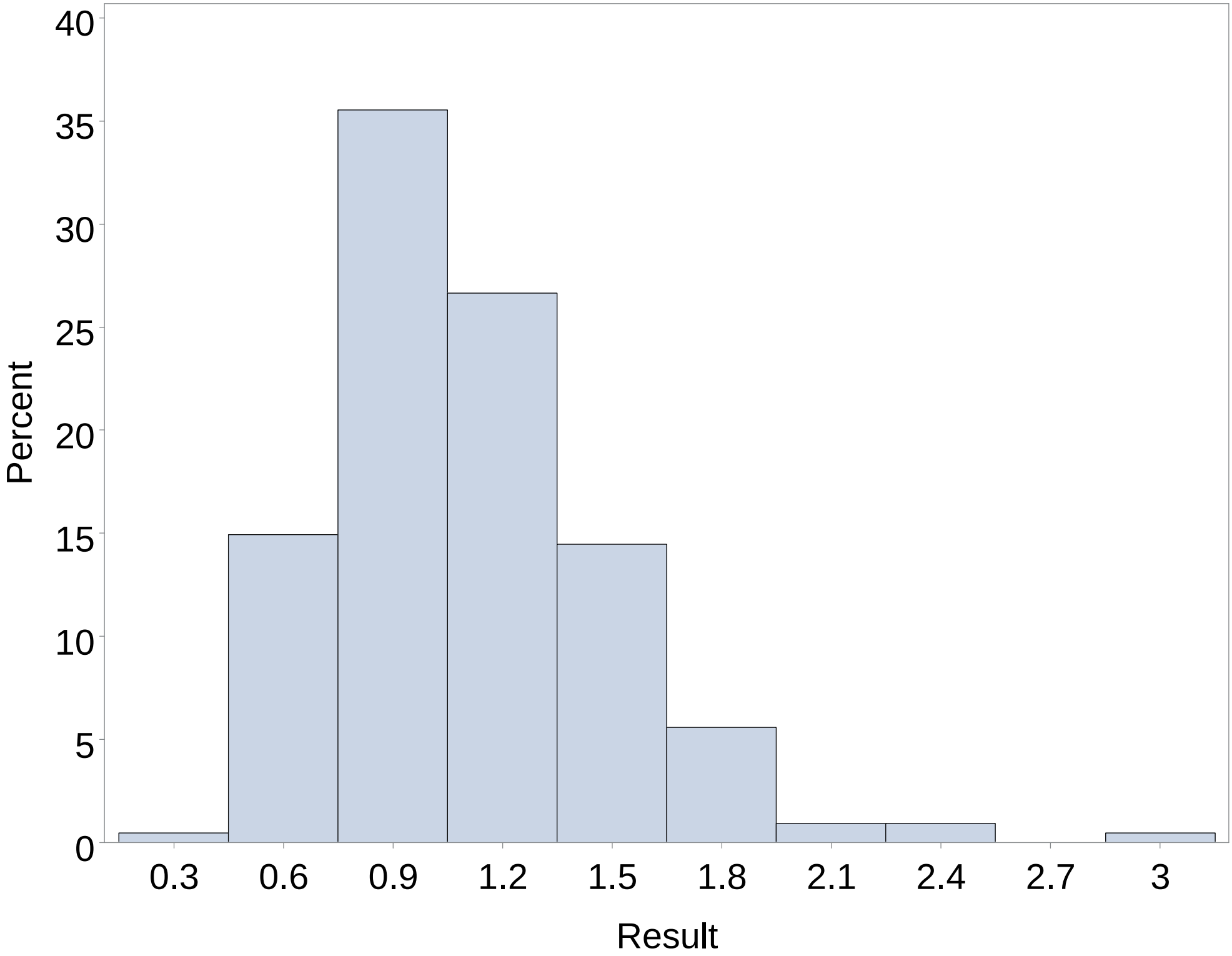
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.24685	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.00
99%	2.30
95%	1.80
90%	1.60
75% Q3	1.30
50% Median	1.00
25% Q1	0.80
10%	0.70
5%	0.60
1%	0.60
0% Min	0.43

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=24.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.43	54777	2.0	54658
0.53	54780	2.0	54738
0.60	54778	2.3	54742
0.60	54741	2.4	54657
0.60	54722	3.0	54587


40
35
30
25
20
15
10
5
0
Percent
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=25.9 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	1.07831776	**Sum Observations**	230.76
Std Deviation	0.3737803	**Variance**	0.13971171
Skewness	0.68045557	**Kurtosis**	-0.2793402
Uncorrected SS	278.5912	**Corrected SS**	29.7585944
Coeff Variation	34.6632794	**Std Error Mean**	0.0255511

Basic Statistical Measures			
Location		**Variability**	
Mean	1.078318	**Std Deviation**	0.37378
Median	1.000000	**Variance**	0.13971
Mode	0.700000	**Range**	1.77000
		Interquartile Range	0.50000

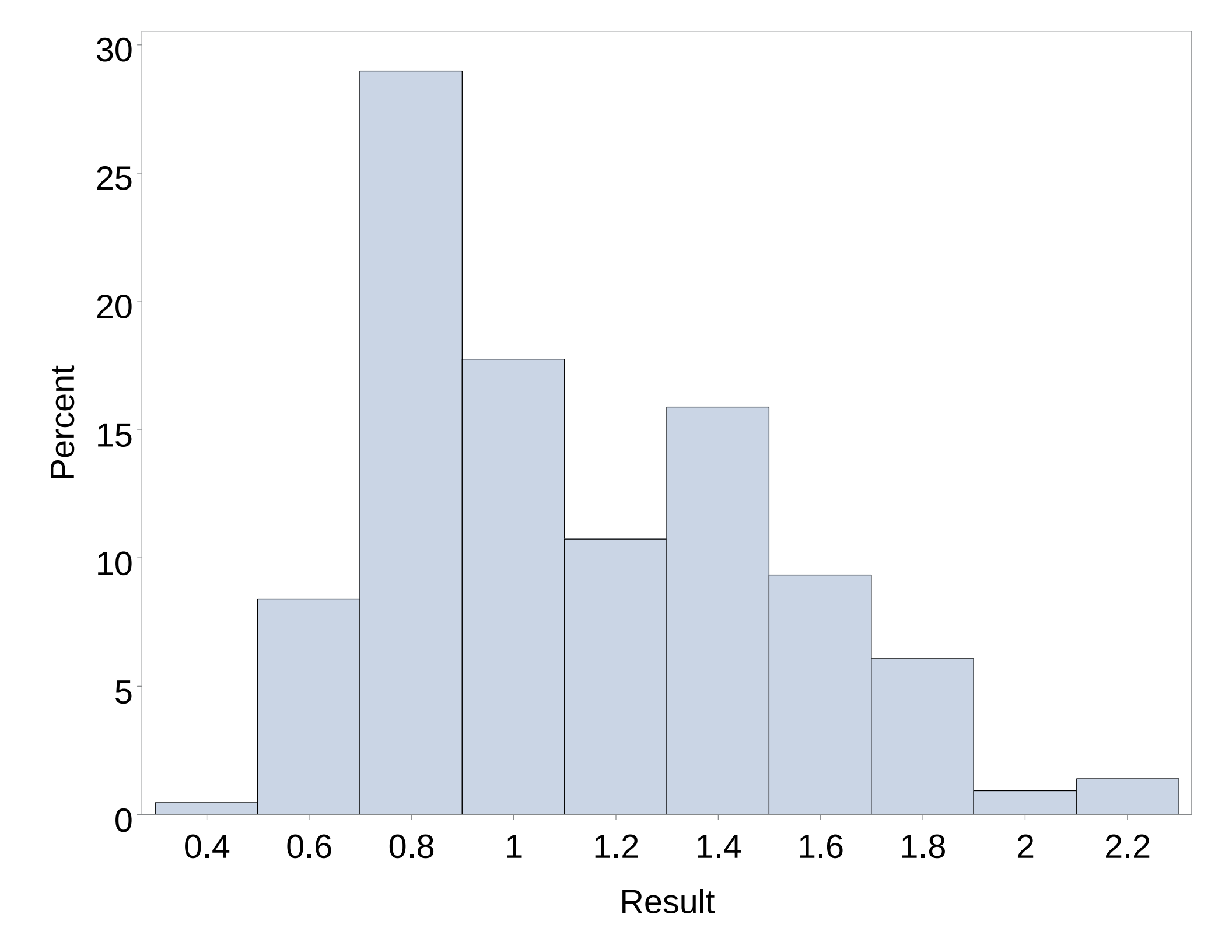
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.20241	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.20
99%	2.10
95%	1.70
90%	1.60
75% Q3	1.30
50% Median	1.00
25% Q1	0.80
10%	0.70
5%	0.61
1%	0.52
0% Min	0.43

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=25.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.43	54990	1.9	54879
0.50	54847	2.0	54952
0.52	54993	2.1	54870
0.56	54999	2.2	54867
0.58	54991	2.2	54880


30
25
20
15
10
5
0
Percent
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=29.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	1.13703704	**Sum Observations**	245.6
Std Deviation	0.5253867	**Variance**	0.27603118
Skewness	2.55978852	**Kurtosis**	11.3728006
Uncorrected SS	338.603	**Corrected SS**	59.3467037
Coeff Variation	46.2066475	**Std Error Mean**	0.03574804

Basic Statistical Measures			
Location		**Variability**	
Mean	1.137037	**Std Deviation**	0.52539
Median	1.000000	**Variance**	0.27603
Mode	0.900000	**Range**	4.13000
		Interquartile Range	0.57500

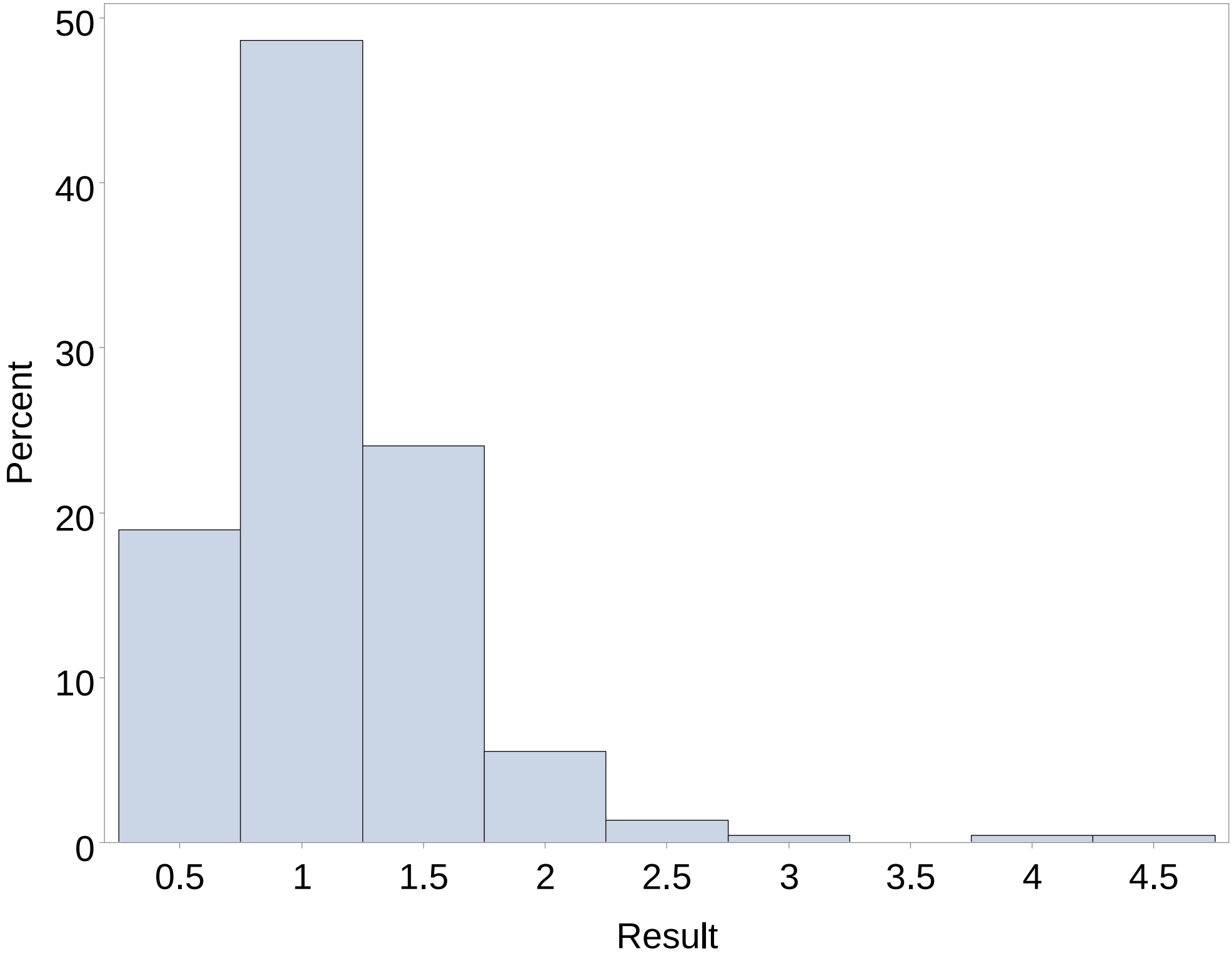
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.80698	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.600
99%	3.000
95%	2.100
90%	1.700
75% Q3	1.375
50% Median	1.000
25% Q1	0.800
10%	0.700
5%	0.600
1%	0.490
0% Min	0.470

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=29.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.47	55206	2.5	55087
0.48	55207	2.6	55088
0.49	55209	3.0	55015
0.50	55171	3.8	55157
0.50	55049	4.6	55160


50
40
30
20
10
0
Percent
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=30.7 Level=Column

Moments			
N	255	**Sum Weights**	255
Mean	1.146	**Sum Observations**	292.23
Std Deviation	0.59585352	**Variance**	0.35504142
Skewness	3.54424058	**Kurtosis**	21.3185075
Uncorrected SS	425.0761	**Corrected SS**	90.18052
Coeff Variation	51.994199	**Std Error Mean**	0.03731379

Basic Statistical Measures			
Location		**Variability**	
Mean	1.146000	**Std Deviation**	0.59585
Median	1.000000	**Variance**	0.35504
Mode	0.800000	**Range**	5.50000
		Interquartile Range	0.60000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.7125	**Pr > |t|**	<.0001
Sign	**M**	127.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	16320	**Pr >= |S|**	<.0001

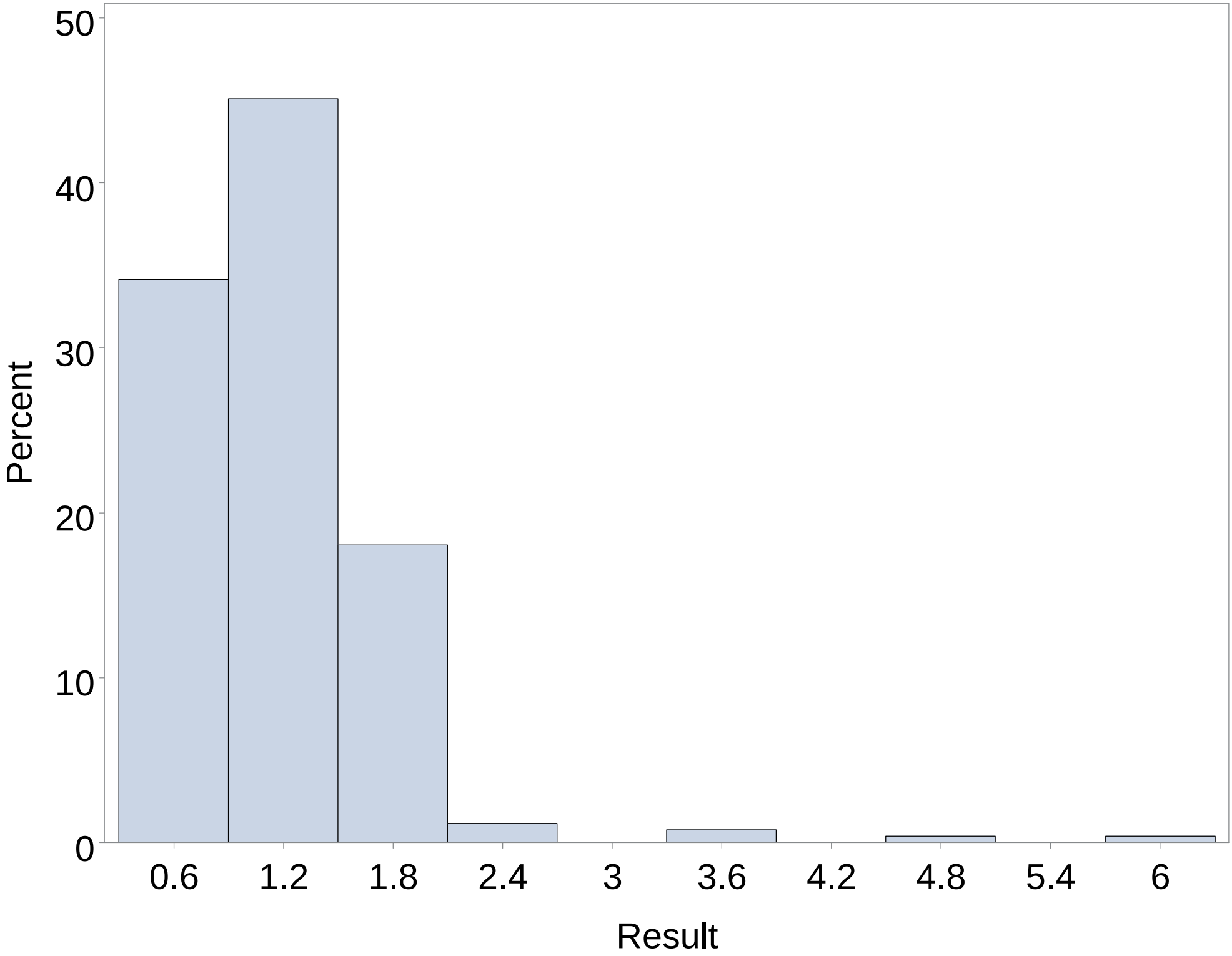
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.90
99%	3.60
95%	2.00
90%	1.70
75% Q3	1.40
50% Median	1.00
25% Q1	0.80
10%	0.63
5%	0.60
1%	0.47
0% Min	0.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=30.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.40	55238	2.6	55344
0.40	55234	3.5	55414
0.47	55462	3.6	55229
0.50	55260	4.7	55424
0.50	55257	5.9	55240

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.39	100.00


50
40
30
20
10
0
Percent
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=32.3 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	1.21939535	**Sum Observations**	262.17
Std Deviation	0.79149398	**Variance**	0.62646272
Skewness	4.773567	**Kurtosis**	34.5541507
Uncorrected SS	453.7519	**Corrected SS**	134.063021
Coeff Variation	64.9087253	**Std Error Mean**	0.05397944

Basic Statistical Measures			
Location		**Variability**	
Mean	1.219395	**Std Deviation**	0.79149
Median	1.000000	**Variance**	0.62646
Mode	0.800000	**Range**	7.81000
		Interquartile Range	0.60000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.59	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

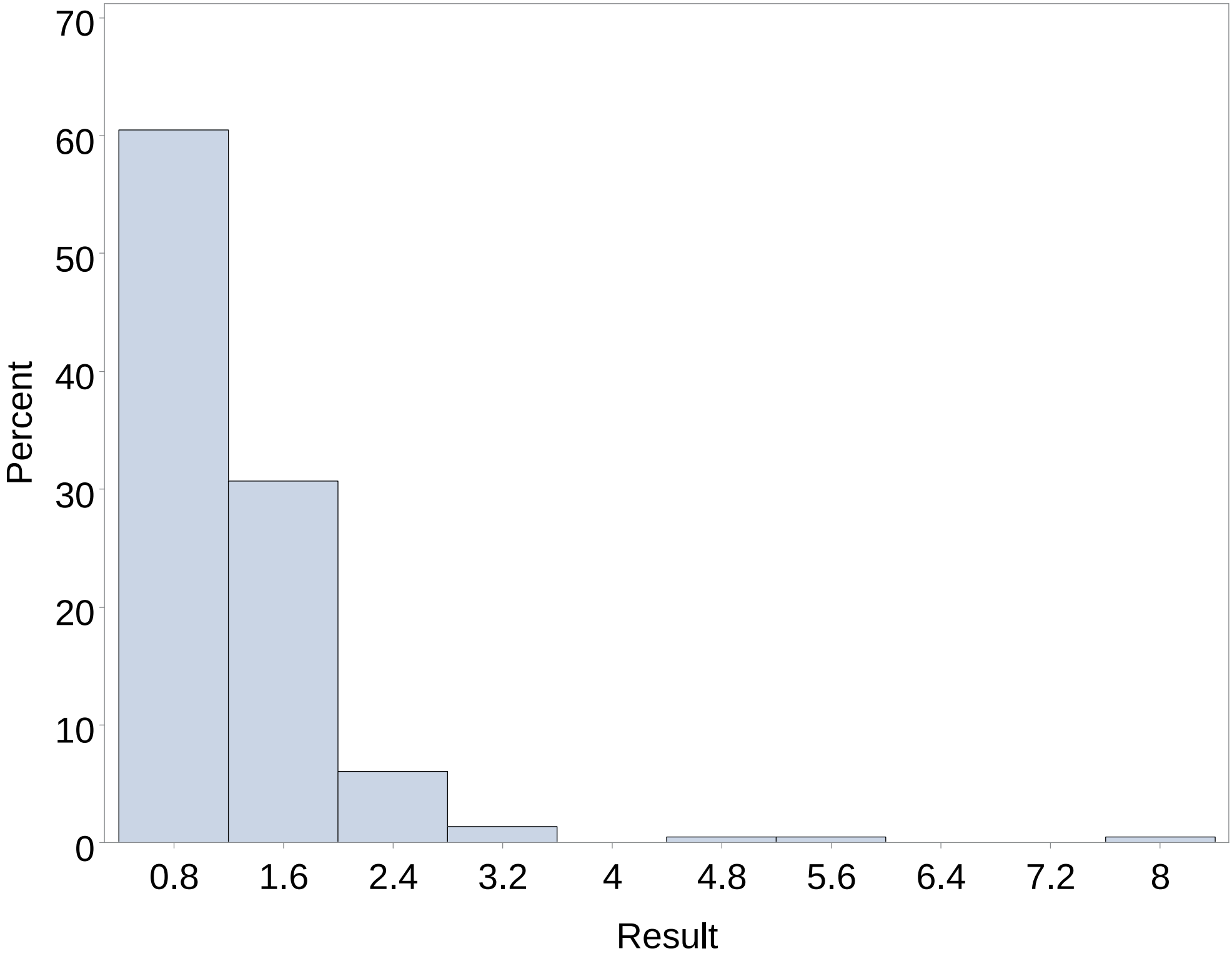
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.30
99%	4.80
95%	2.10
90%	1.90
75% Q3	1.40
50% Median	1.00
25% Q1	0.80
10%	0.67
5%	0.60
1%	0.51
0% Min	0.49

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=10% light depth (m) River Kilometer=32.3 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.49	55678	2.8	55601
0.50	55608	3.4	55629
0.51	55679	4.8	55639
0.56	55681	5.5	55489
0.58	55687	8.3	55632

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


70
60
50
40
30
20
10
0
Percent
0.8
1.6
2.4
3.2
4
4.8
5.6
6.4
7.2
8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=-2.4 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	0.70850575	**Sum Observations**	184.92
Std Deviation	0.34587969	**Variance**	0.11963276
Skewness	1.41720956	**Kurtosis**	6.52025967
Uncorrected SS	162.1214	**Corrected SS**	31.1045172
Coeff Variation	48.8181909	**Std Error Mean**	0.02140942

Basic Statistical Measures			
Location		**Variability**	
Mean	0.708506	**Std Deviation**	0.34588
Median	0.700000	**Variance**	0.11963
Mode	0.800000	**Range**	2.80000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.09319	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

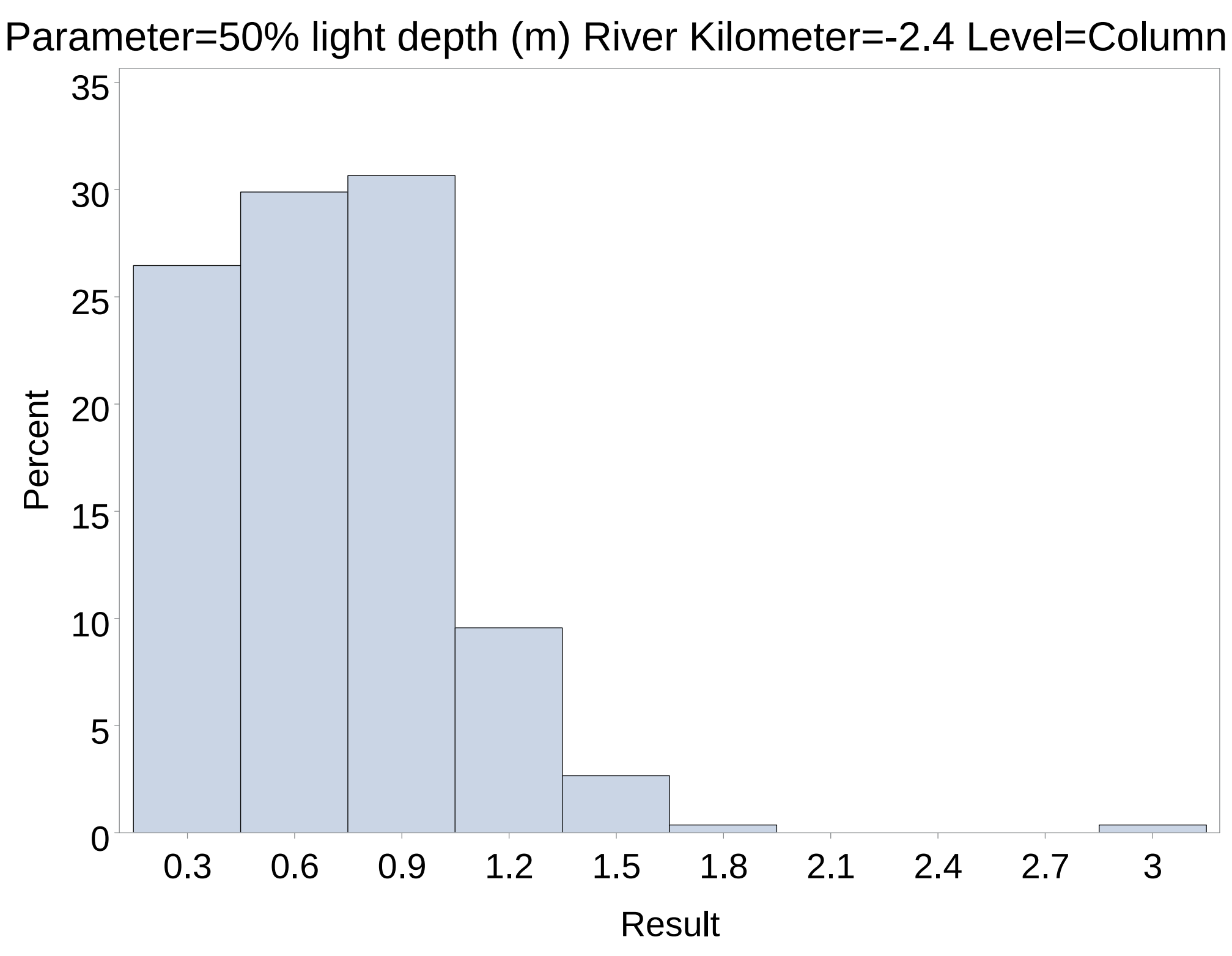
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.00
99%	1.56
95%	1.30
90%	1.10
75% Q3	0.90
50% Median	0.70
25% Q1	0.40
10%	0.30
5%	0.27
1%	0.20
0% Min	0.20

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=-2.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	55894	1.50	55809
0.2	55813	1.50	55828
0.2	55805	1.56	55937
0.2	55789	1.70	55881
0.2	55777	3.00	55820

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


Parameter=50% light depth (m) River Kilometer=-2.4 Level=Column
35
30
25
20
15
10
5
0
Percent
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=6.6 Level=Column

Moments			
N	262	**Sum Weights**	262
Mean	0.47290076	**Sum Observations**	123.9
Std Deviation	0.20702227	**Variance**	0.04285822
Skewness	0.87373644	**Kurtosis**	0.86648082
Uncorrected SS	69.7784	**Corrected SS**	11.1859954
Coeff Variation	43.7771062	**Std Error Mean**	0.01278988

Basic Statistical Measures			
Location		**Variability**	
Mean	0.472901	**Std Deviation**	0.20702
Median	0.400000	**Variance**	0.04286
Mode	0.400000	**Range**	1.20000
		Interquartile Range	0.30000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.97461	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

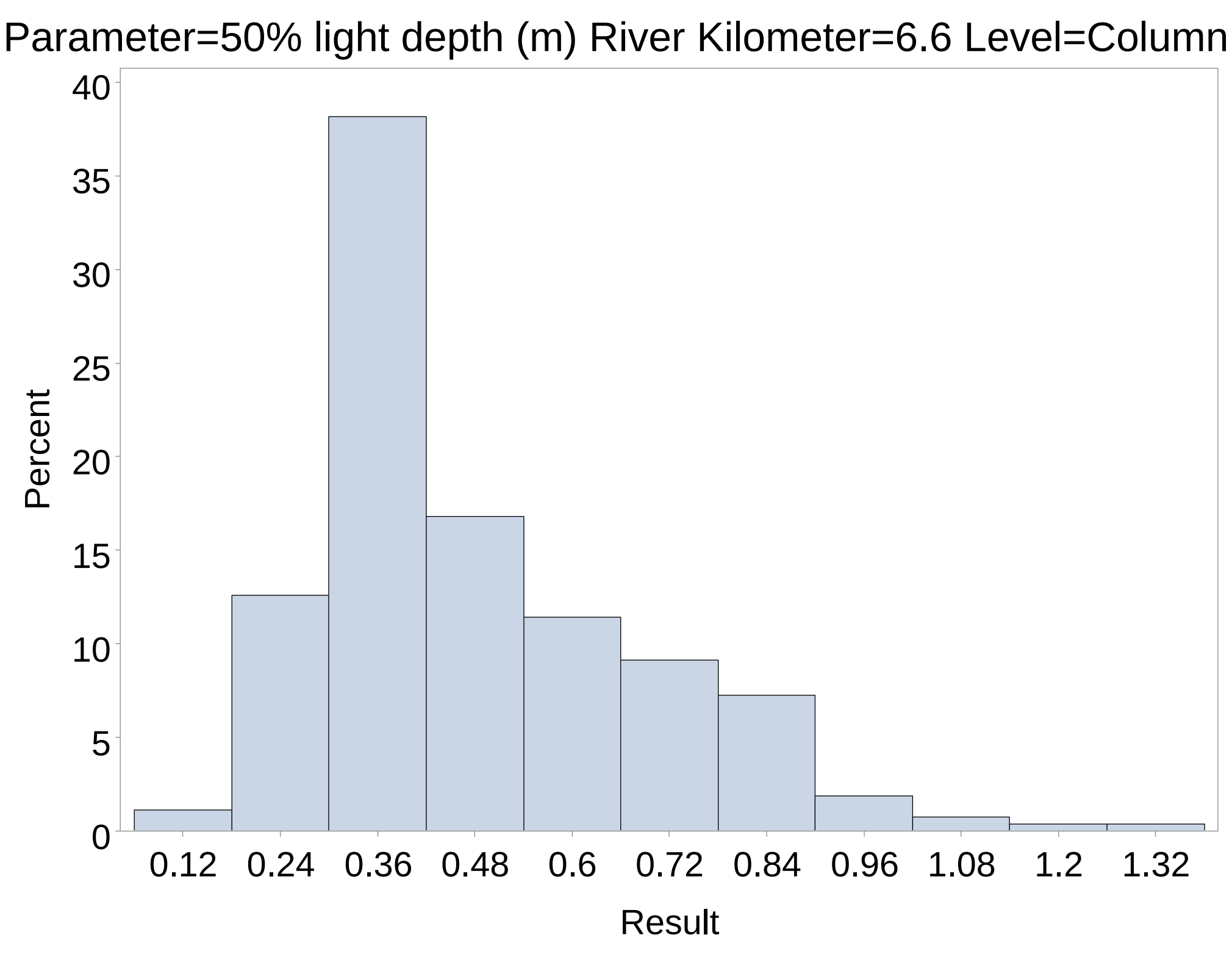
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.30
99%	1.10
95%	0.80
90%	0.80
75% Q3	0.60
50% Median	0.40
25% Q1	0.30
10%	0.21
5%	0.20
1%	0.16
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=6.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	56157	1.00	56084
0.10	55974	1.03	56211
0.16	56207	1.10	56073
0.20	56213	1.21	56200
0.20	56169	1.30	55975

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


Parameter=50% light depth (m) River Kilometer=6.6 Level=Column
Percent
40
35
30
25
20
15
10
5
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
1.32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=8.4 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	0.43775229	**Sum Observations**	95.43
Std Deviation	0.19416842	**Variance**	0.03770138
Skewness	1.11341069	**Kurtosis**	2.21987928
Uncorrected SS	49.9559	**Corrected SS**	8.18119862
Coeff Variation	44.3557749	**Std Error Mean**	0.01315074

Basic Statistical Measures			
Location		**Variability**	
Mean	0.437752	**Std Deviation**	0.19417
Median	0.400000	**Variance**	0.03770
Mode	0.400000	**Range**	1.25000
		Interquartile Range	0.29000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.28726	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

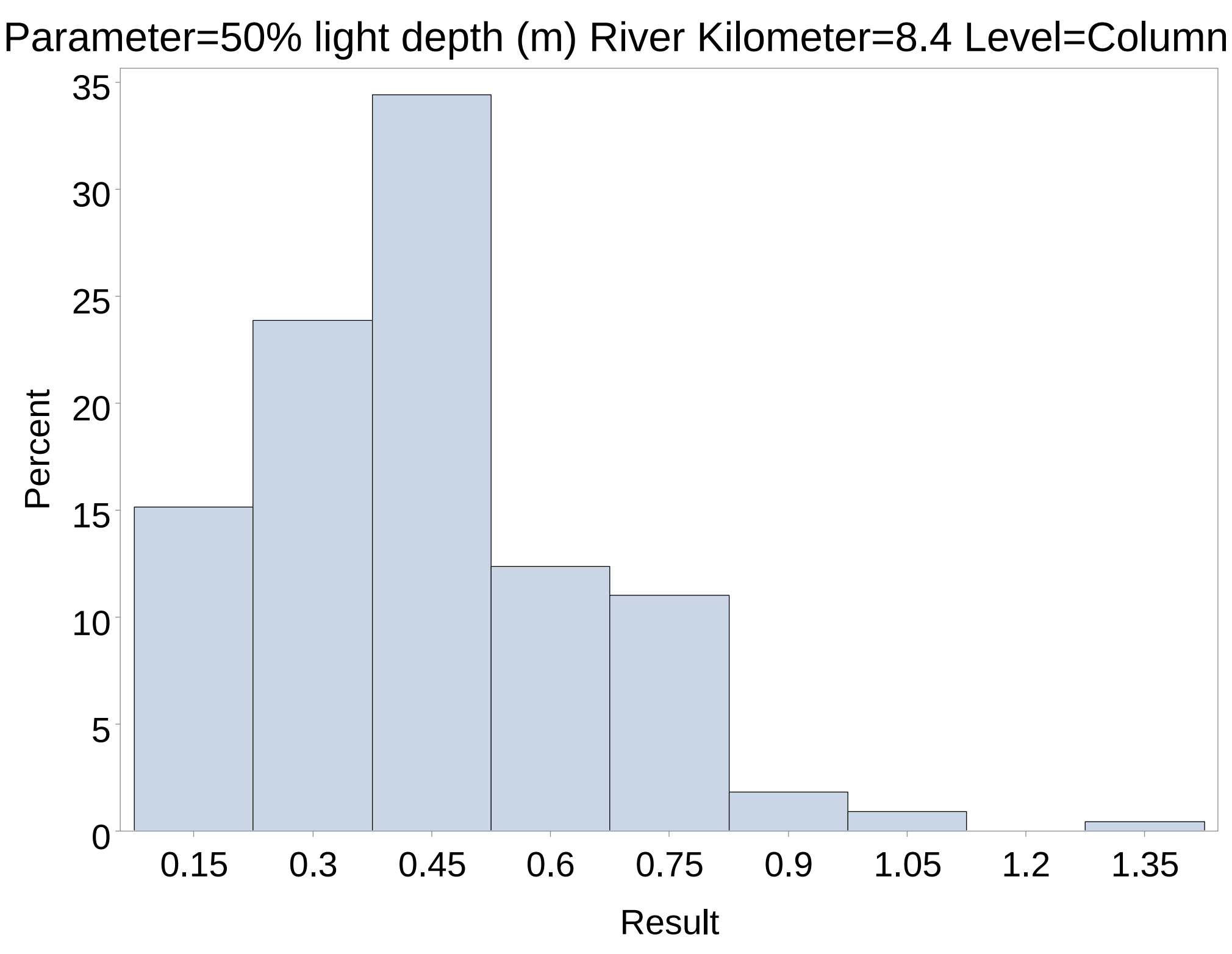
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.40
99%	1.00
95%	0.80
90%	0.70
75% Q3	0.59
50% Median	0.40
25% Q1	0.30
10%	0.20
5%	0.20
1%	0.18
0% Min	0.15

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=8.4 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.15	56426	0.90	56339
0.17	56401	0.90	56372
0.18	56423	1.00	56363
0.19	56436	1.01	56419
0.20	56424	1.40	56229

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


Parameter=50% light depth (m) River Kilometer=8.4 Level=Column
Percent
35
30
25
20
15
10
5
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=10.5 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	0.41848624	**Sum Observations**	91.23
Std Deviation	0.19404024	**Variance**	0.03765162
Skewness	1.08961834	**Kurtosis**	1.05939683
Uncorrected SS	46.3489	**Corrected SS**	8.17040046
Coeff Variation	46.3671736	**Std Error Mean**	0.01314206

Basic Statistical Measures			
Location		**Variability**	
Mean	0.418486	**Std Deviation**	0.19404
Median	0.400000	**Variance**	0.03765
Mode	0.300000	**Range**	0.95000
		Interquartile Range	0.20000

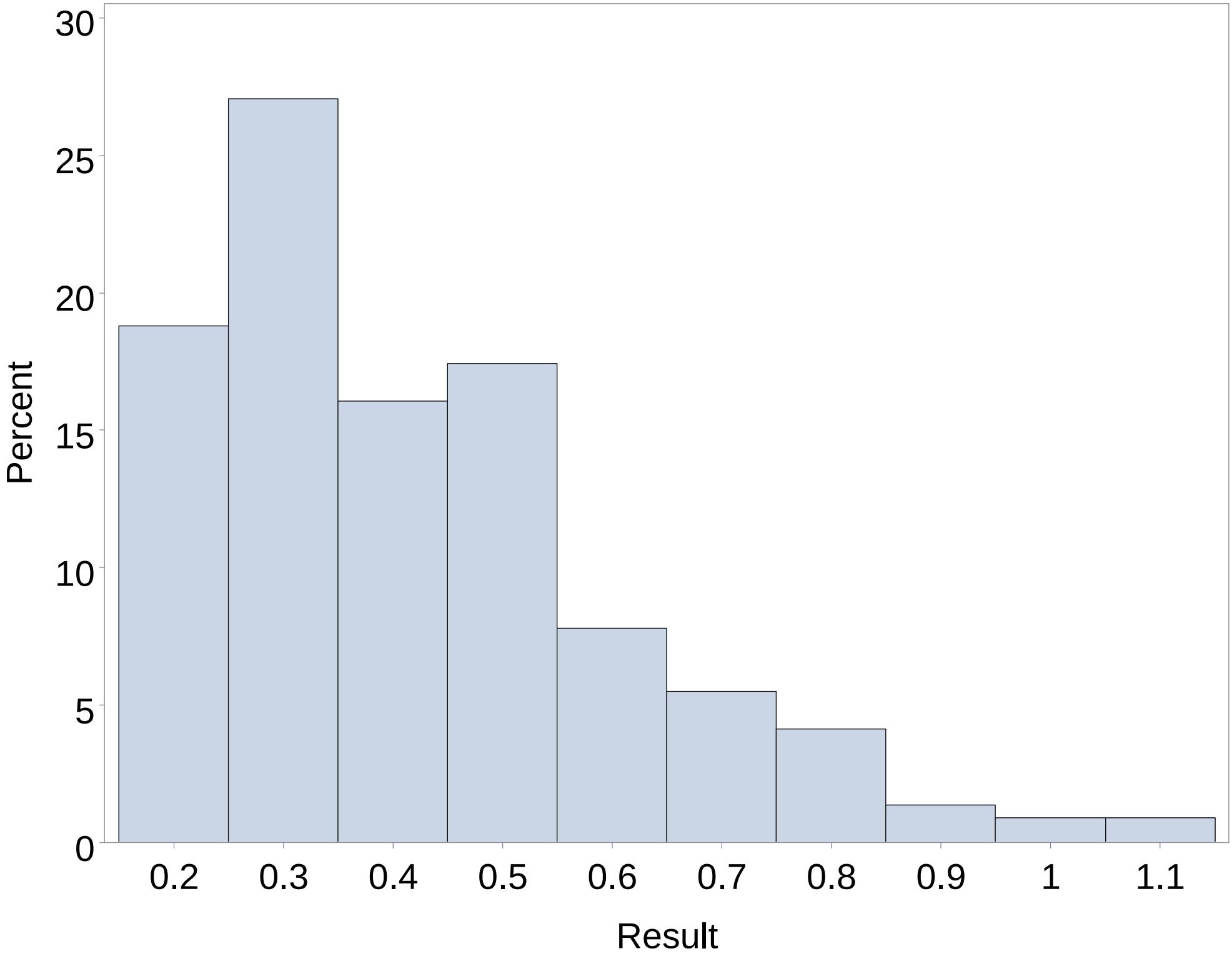
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.84327	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.10
99%	1.02
95%	0.80
90%	0.70
75% Q3	0.50
50% Median	0.40
25% Q1	0.30
10%	0.20
5%	0.20
1%	0.18
0% Min	0.15

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=10.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.15	56644	0.90	56589
0.17	56641	1.00	56592
0.18	56642	1.02	56638
0.19	56654	1.10	56448
0.19	56632	1.10	56511


30
25
20
15
10
5
0
Percent
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=12.7 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	0.36880734	**Sum Observations**	80.4
Std Deviation	0.15380714	**Variance**	0.02365664
Skewness	1.25556718	**Kurtosis**	2.31737824
Uncorrected SS	34.7856	**Corrected SS**	5.13348991
Coeff Variation	41.7039253	**Std Error Mean**	0.01041713

Basic Statistical Measures			
Location		**Variability**	
Mean	0.368807	**Std Deviation**	0.15381
Median	0.300000	**Variance**	0.02366
Mode	0.300000	**Range**	0.94000
		Interquartile Range	0.19000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.40392	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

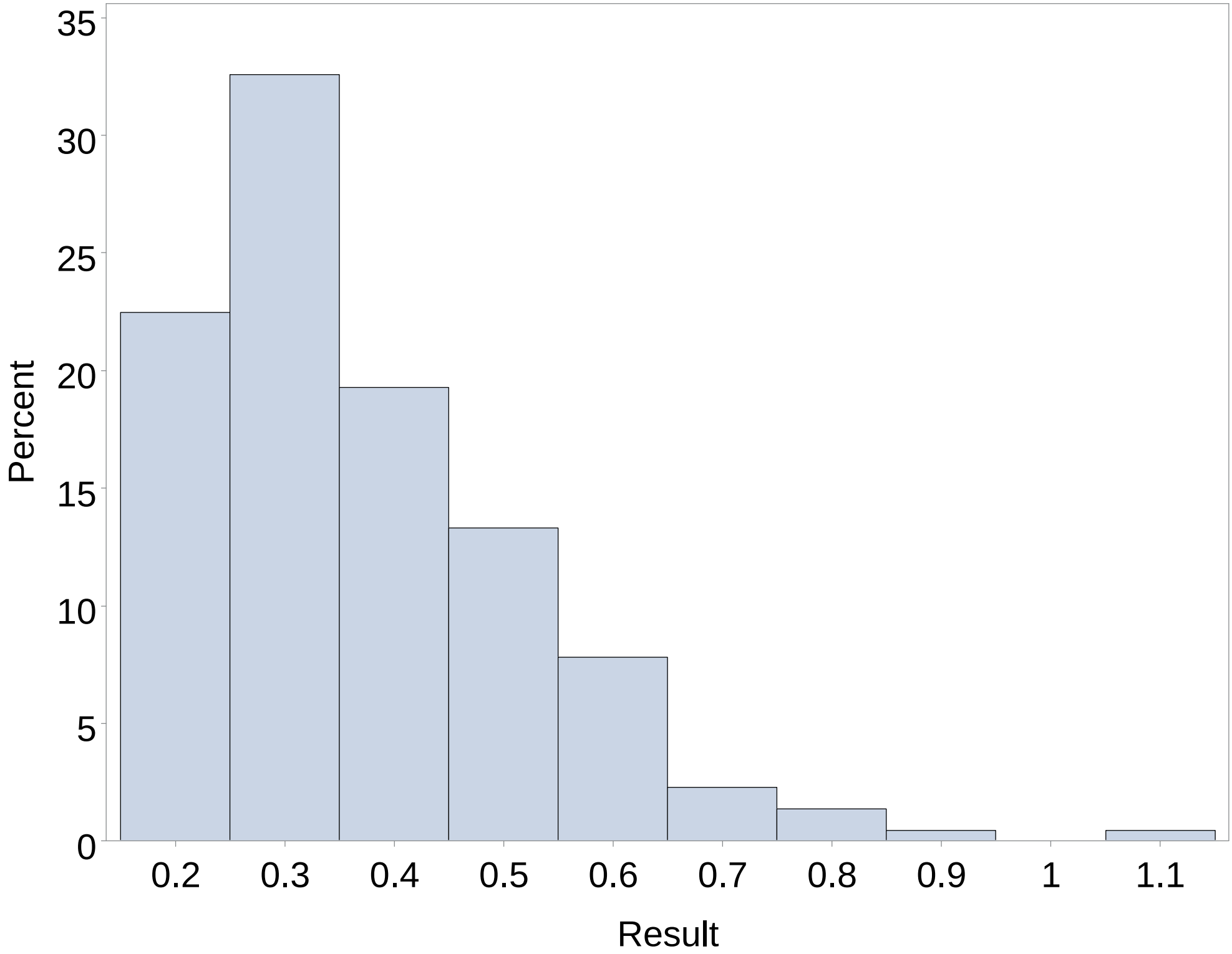
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.10
99%	0.82
95%	0.63
90%	0.60
75% Q3	0.47
50% Median	0.30
25% Q1	0.28
10%	0.20
5%	0.20
1%	0.17
0% Min	0.16

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=12.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.16	56860	0.80	56740
0.17	56864	0.80	56800
0.17	56863	0.82	56857
0.18	56872	0.90	56729
0.18	56839	1.10	56666

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


35
30
25
20
15
10
5
0
Percent
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=12.8 Level=Column

Moments			
N	218	**Sum Weights**	218
Mean	0.37793578	**Sum Observations**	82.39
Std Deviation	0.17762088	**Variance**	0.03154918
Skewness	1.49775978	**Kurtosis**	3.45749235
Uncorrected SS	37.9843	**Corrected SS**	6.8461711
Coeff Variation	46.9976344	**Std Error Mean**	0.01203

Basic Statistical Measures			
Location		**Variability**	
Mean	0.377936	**Std Deviation**	0.17762
Median	0.300000	**Variance**	0.03155
Mode	0.300000	**Range**	1.07000
		Interquartile Range	0.25000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.4161	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	11935.5	**Pr >= |S|**	<.0001

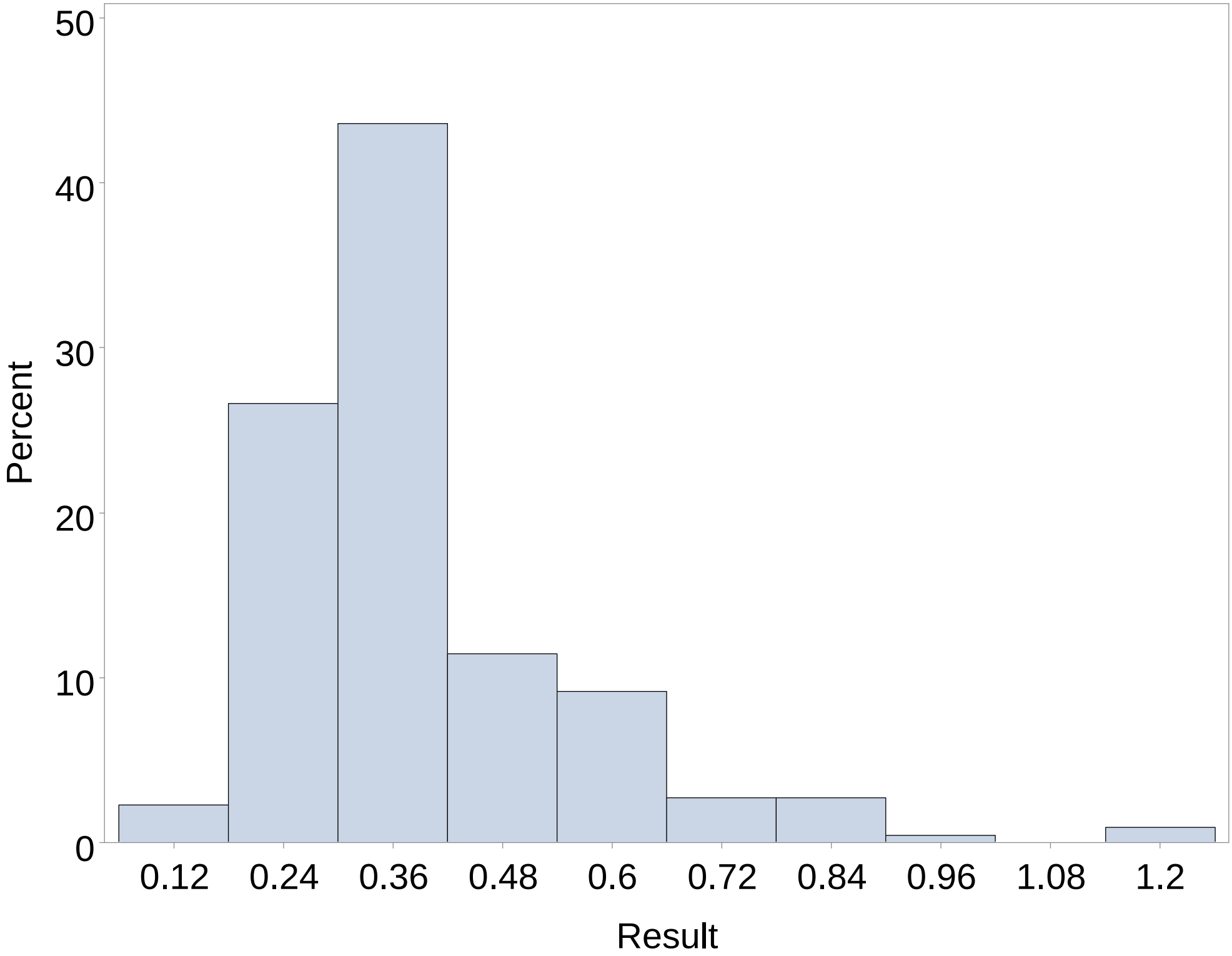
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.20
99%	0.90
95%	0.70
90%	0.60
75% Q3	0.49
50% Median	0.30
25% Q1	0.24
10%	0.20
5%	0.19
1%	0.16
0% Min	0.13

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=12.8 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	57070	0.80	57019
0.15	57079	0.81	57076
0.16	57082	0.90	56883
0.17	57093	1.20	56884
0.17	57083	1.20	56885

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


50
40
30
20
10
0
Percent
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=15.5 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	0.3689272	**Sum Observations**	96.29
Std Deviation	0.16731246	**Variance**	0.02799346
Skewness	1.60314017	**Kurtosis**	4.6973929
Uncorrected SS	42.8023	**Corrected SS**	7.27829962
Coeff Variation	45.3510777	**Std Error Mean**	0.01035638

Basic Statistical Measures			
Location		**Variability**	
Mean	0.368927	**Std Deviation**	0.16731
Median	0.300000	**Variance**	0.02799
Mode	0.300000	**Range**	1.16000
		Interquartile Range	0.25000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.62318	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

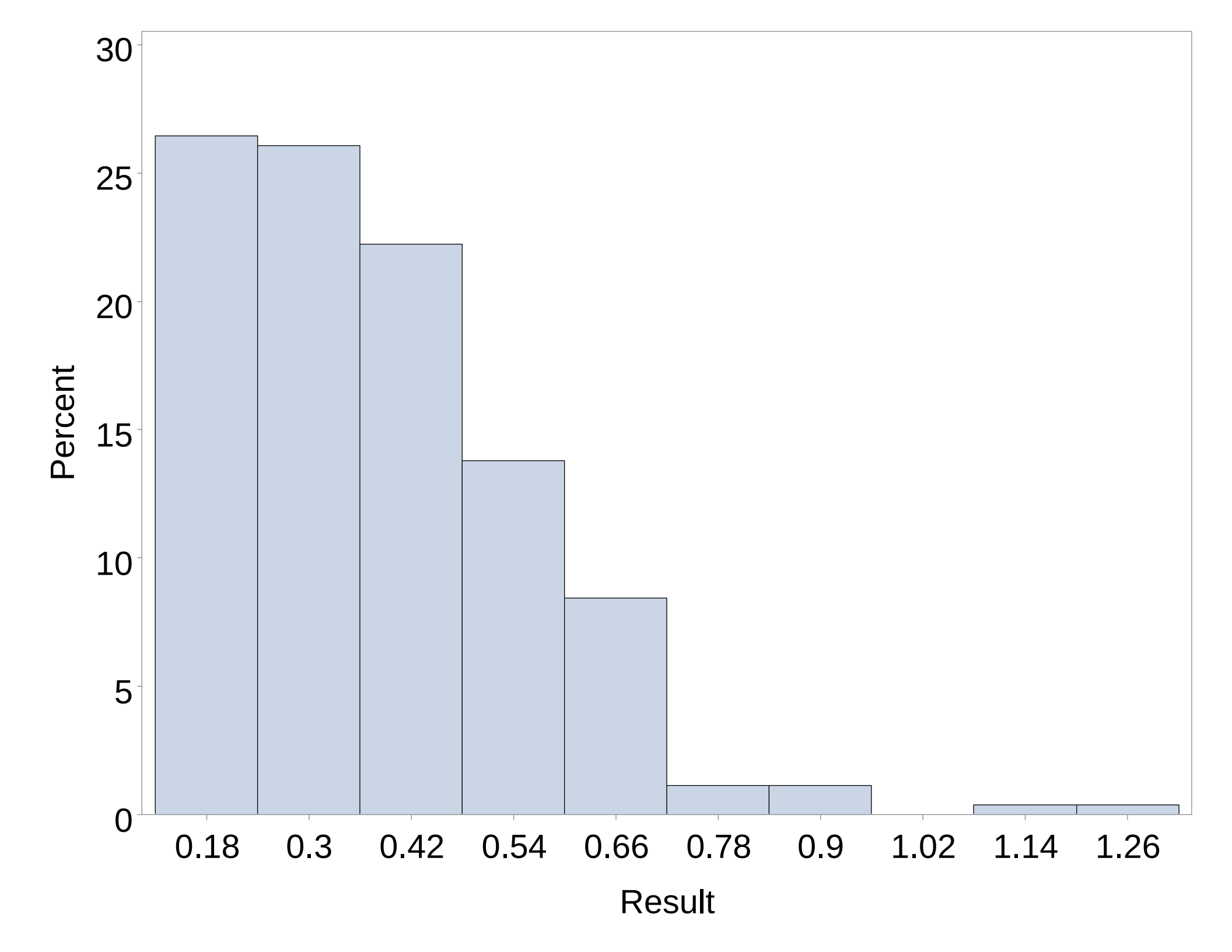
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.30
99%	0.90
95%	0.60
90%	0.60
75% Q3	0.48
50% Median	0.30
25% Q1	0.23
10%	0.20
5%	0.20
1%	0.15
0% Min	0.14

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=15.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.14	57356	0.88	57339
0.14	57342	0.90	57114
0.15	57343	0.90	57223
0.16	57345	1.10	57222
0.18	57322	1.30	57149

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.76	100.00


30
25
20
15
10
5
0
Percent
0.18
0.3
0.42
0.54
0.66
0.78
0.9
1.02
1.14
1.26
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=17.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	0.36162037	**Sum Observations**	78.11
Std Deviation	0.15915084	**Variance**	0.02532899
Skewness	2.19059951	**Kurtosis**	11.3088789
Uncorrected SS	33.6919	**Corrected SS**	5.44573287
Coeff Variation	44.0104744	**Std Error Mean**	0.01082884

Basic Statistical Measures			
Location		**Variability**	
Mean	0.361620	**Std Deviation**	0.15915
Median	0.300000	**Variance**	0.02533
Mode	0.300000	**Range**	1.36000
		Interquartile Range	0.23500

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.39418	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

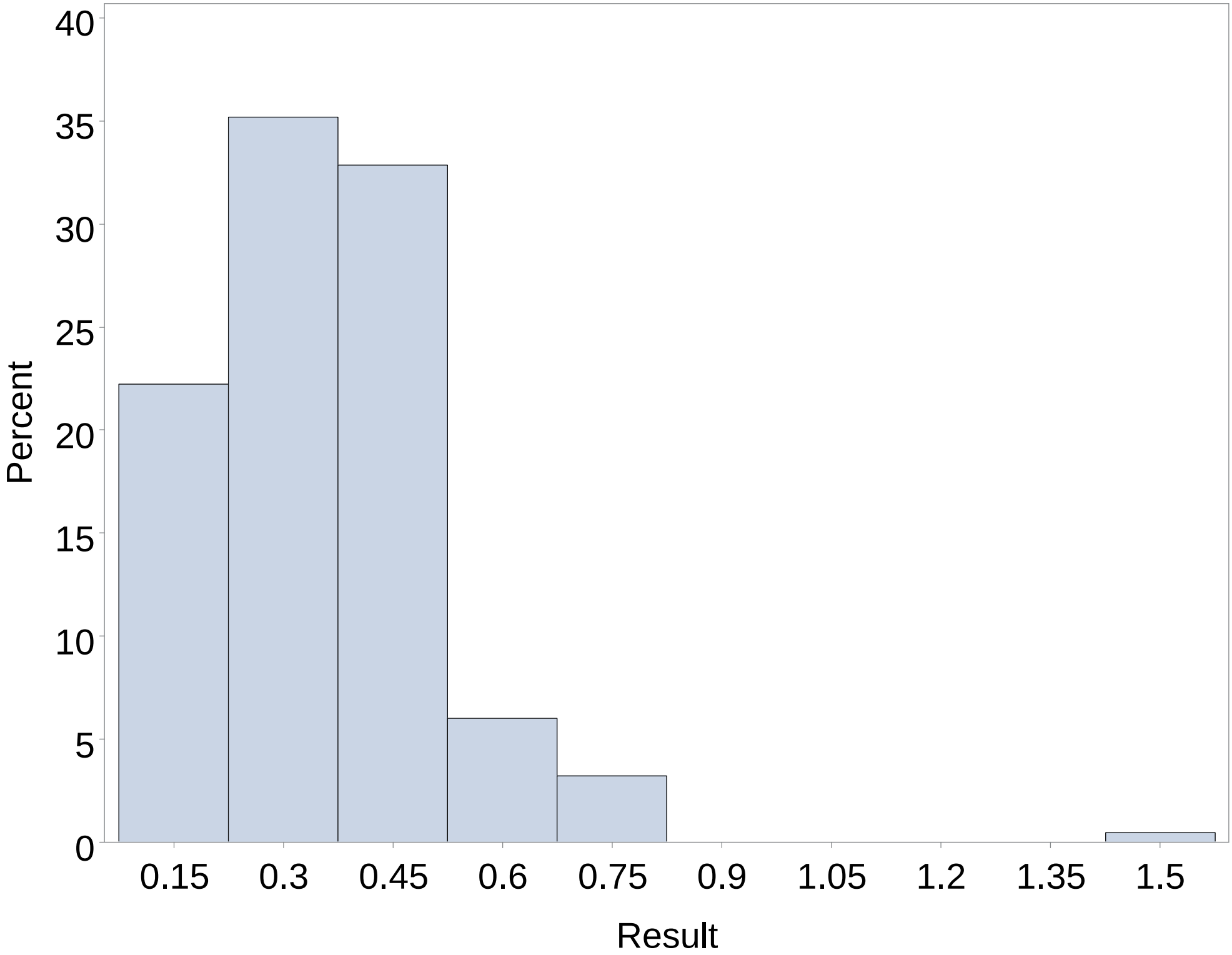
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.500
99%	0.800
95%	0.600
90%	0.500
75% Q3	0.480
50% Median	0.300
25% Q1	0.245
10%	0.200
5%	0.200
1%	0.170
0% Min	0.140

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=17.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.14	57559	0.70	57462
0.16	57568	0.76	57556
0.17	57562	0.80	57430
0.17	57560	0.80	57524
0.19	57572	1.50	57510

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


40
35
30
25
20
15
10
5
0
Percent
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
1.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=20.1 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	0.3407907	**Sum Observations**	73.27
Std Deviation	0.13516977	**Variance**	0.01827087
Skewness	1.30042297	**Kurtosis**	3.04660527
Uncorrected SS	28.8797	**Corrected SS**	3.90996558
Coeff Variation	39.6635744	**Std Error Mean**	0.0092185

Basic Statistical Measures			
Location		**Variability**	
Mean	0.340791	**Std Deviation**	0.13517
Median	0.300000	**Variance**	0.01827
Mode	0.300000	**Range**	0.87000
		Interquartile Range	0.17000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.96812	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

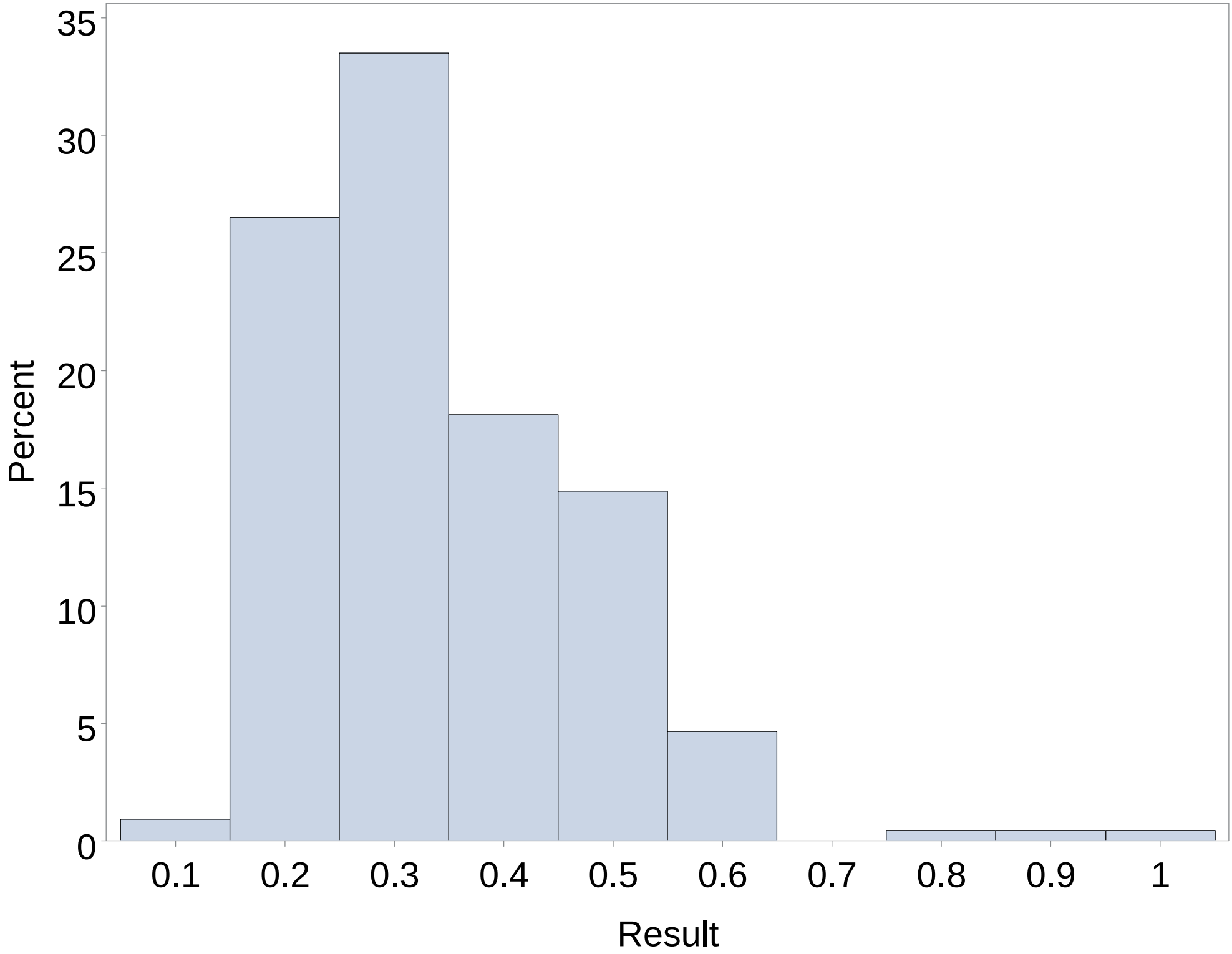
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.00
99%	0.80
95%	0.60
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.23
10%	0.20
5%	0.20
1%	0.16
0% Min	0.13

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=20.1 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	57775	0.60	57740
0.14	57766	0.62	57772
0.16	57778	0.80	57657
0.17	57784	0.90	57726
0.18	57776	1.00	57584

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


35
30
25
20
15
10
5
0
Percent
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=21.9 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	0.33162791	**Sum Observations**	71.3
Std Deviation	0.13118672	**Variance**	0.01720995
Skewness	2.07347534	**Kurtosis**	9.52858182
Uncorrected SS	27.328	**Corrected SS**	3.68293023
Coeff Variation	39.5584065	**Std Error Mean**	0.00894686

Basic Statistical Measures			
Location		**Variability**	
Mean	0.331628	**Std Deviation**	0.13119
Median	0.300000	**Variance**	0.01721
Mode	0.300000	**Range**	1.10000
		Interquartile Range	0.17000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.0664	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

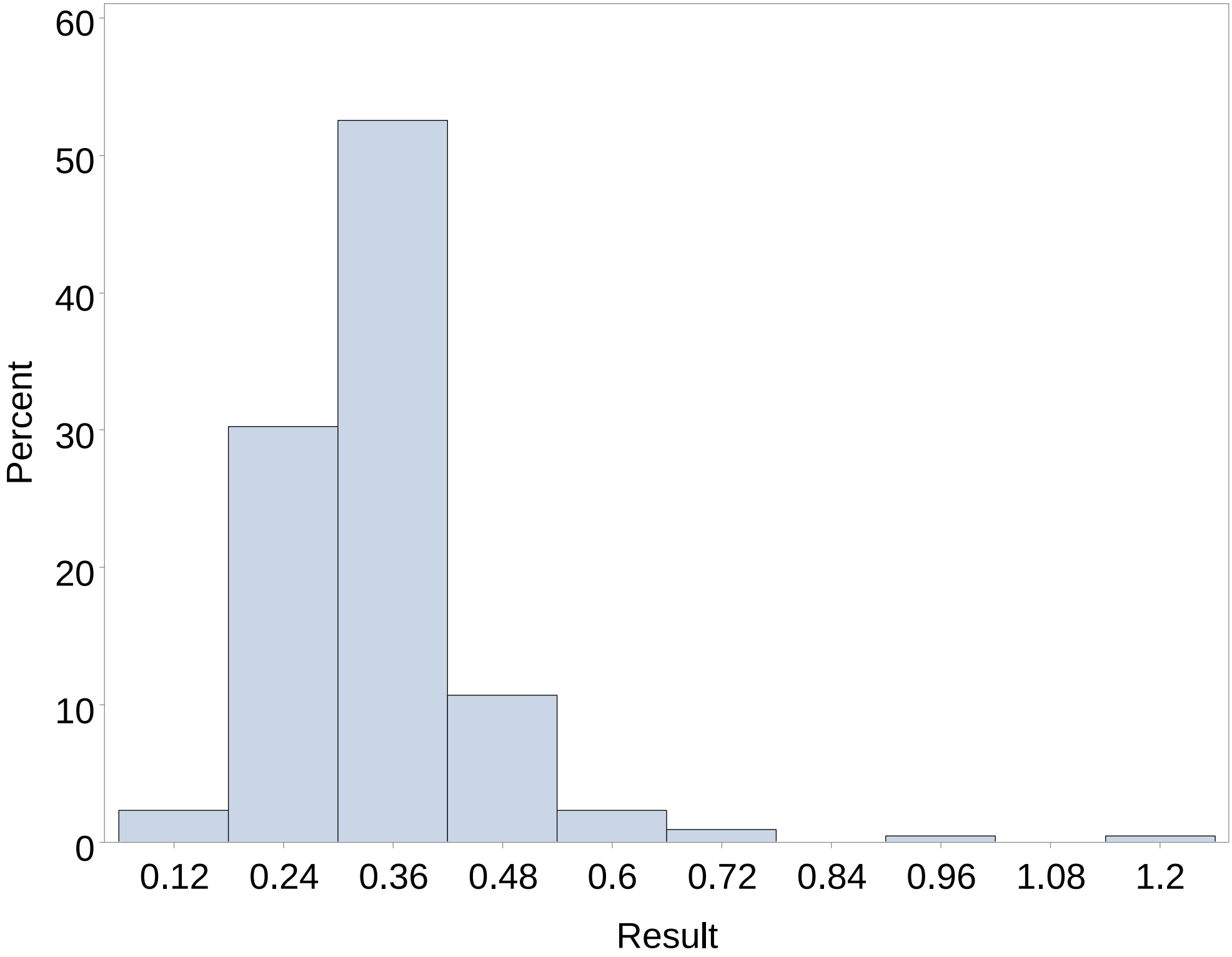
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.20
99%	0.70
95%	0.50
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.23
10%	0.20
5%	0.20
1%	0.15
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=21.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	57958	0.6	57989
0.13	57992	0.7	57937
0.15	58001	0.7	57941
0.17	58005	0.9	57953
0.17	57995	1.2	57957

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	2	0.92	100.00


60
50
40
30
20
10
0
Percent
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=23.6 Level=Column

Moments			
N	261	**Sum Weights**	261
Mean	0.3402682	**Sum Observations**	88.81
Std Deviation	0.15220534	**Variance**	0.02316647
Skewness	2.23867612	**Kurtosis**	9.1006677
Uncorrected SS	36.2425	**Corrected SS**	6.02328123
Coeff Variation	44.7309924	**Std Error Mean**	0.00942127

Basic Statistical Measures			
Location		**Variability**	
Mean	0.340268	**Std Deviation**	0.15221
Median	0.300000	**Variance**	0.02317
Mode	0.300000	**Range**	1.10000
		Interquartile Range	0.18000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.117	**Pr > |t|**	<.0001
Sign	**M**	130.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17095.5	**Pr >= |S|**	<.0001

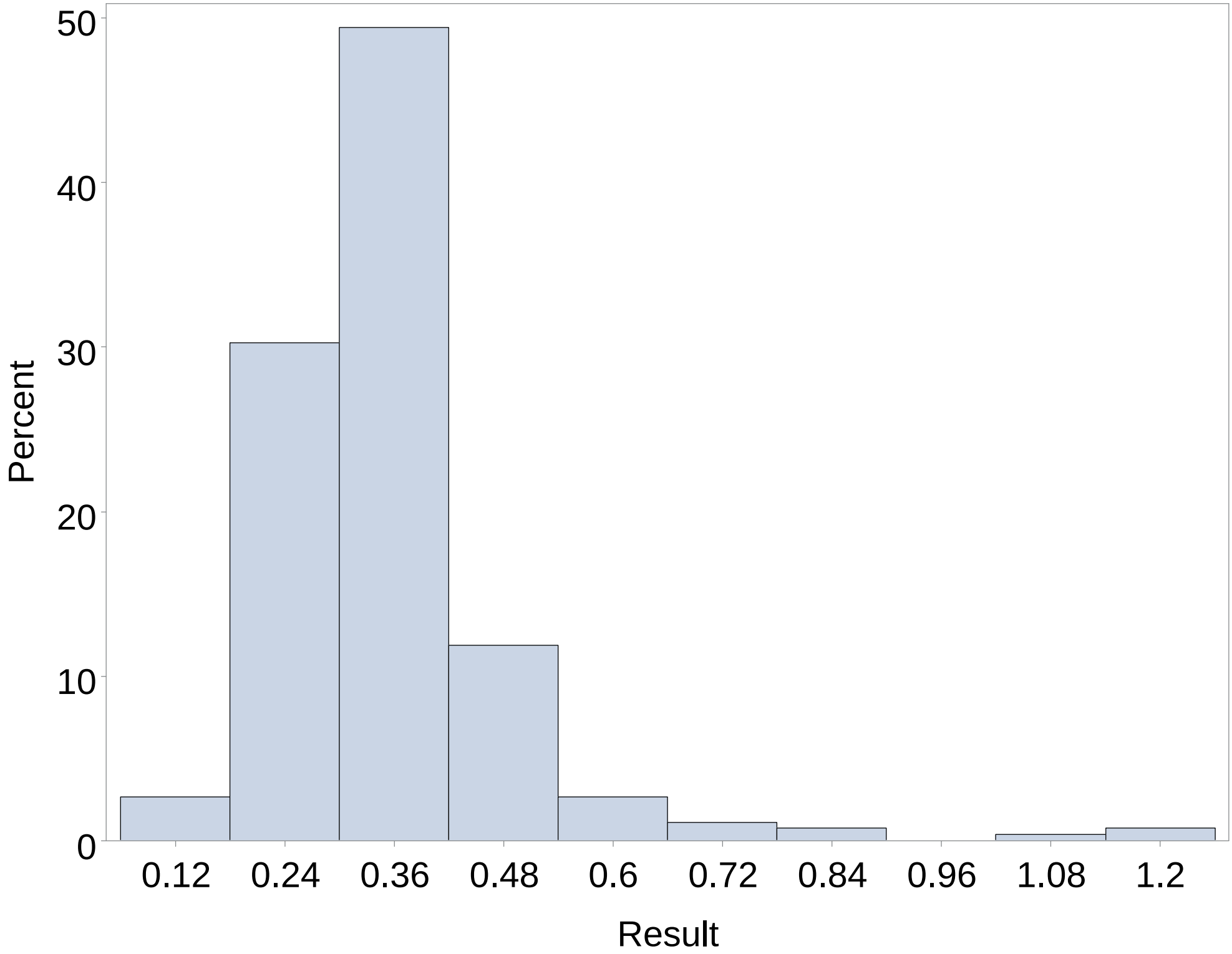
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.20
99%	1.10
95%	0.60
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.22
10%	0.20
5%	0.20
1%	0.10
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=23.6 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	58034	0.8	58027
0.10	58025	0.8	58072
0.10	58020	1.1	58026
0.13	58254	1.2	58062
0.14	58233	1.2	58205

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


50
40
30
20
10
0
Percent
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=24.7 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	0.32827103	**Sum Observations**	70.25
Std Deviation	0.11422859	**Variance**	0.01304817
Skewness	1.23386013	**Kurtosis**	2.81906077
Uncorrected SS	25.8403	**Corrected SS**	2.77926028
Coeff Variation	34.7970361	**Std Error Mean**	0.00780851

Basic Statistical Measures			
Location		**Variability**	
Mean	0.328271	**Std Deviation**	0.11423
Median	0.300000	**Variance**	0.01305
Mode	0.300000	**Range**	0.77000
		Interquartile Range	0.16000

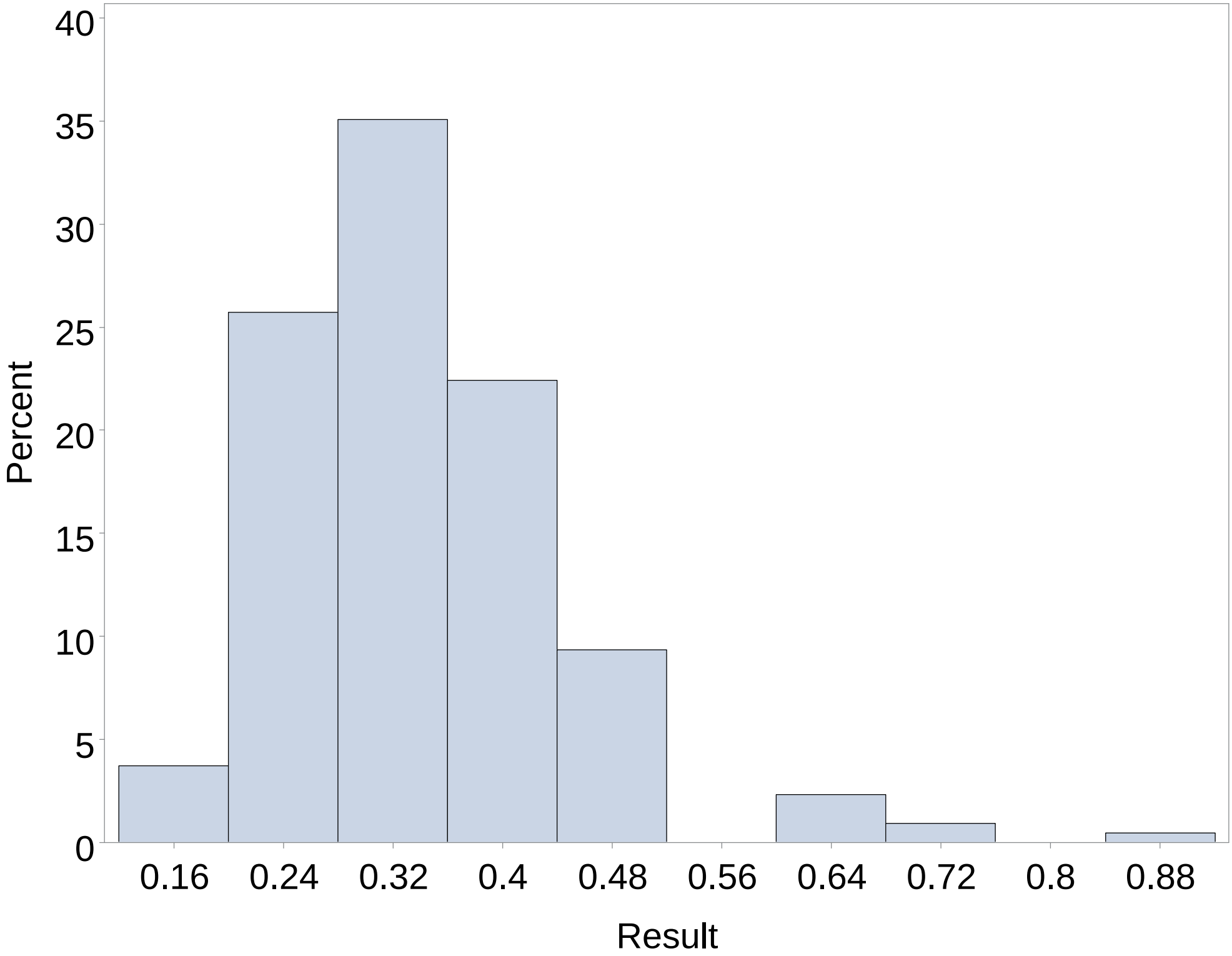
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.04019	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.90
99%	0.70
95%	0.50
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.24
10%	0.20
5%	0.20
1%	0.18
0% Min	0.13

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=24.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	58469	0.6	58419
0.16	58472	0.6	58430
0.18	58473	0.7	58349
0.18	58470	0.7	58434
0.19	58481	0.9	58279


40
35
30
25
20
15
10
5
0
Percent
0.16
0.24
0.32
0.4
0.48
0.56
0.64
0.72
0.8
0.88
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=25.9 Level=Column

Moments			
N	214	**Sum Weights**	214
Mean	0.32191589	**Sum Observations**	68.89
Std Deviation	0.11648842	**Variance**	0.01356955
Skewness	0.62780467	**Kurtosis**	-0.2010424
Uncorrected SS	25.0671	**Corrected SS**	2.89031449
Coeff Variation	36.1859798	**Std Error Mean**	0.00796298

Basic Statistical Measures			
Location		**Variability**	
Mean	0.321916	**Std Deviation**	0.11649
Median	0.300000	**Variance**	0.01357
Mode	0.200000	**Range**	0.60000
		Interquartile Range	0.20000

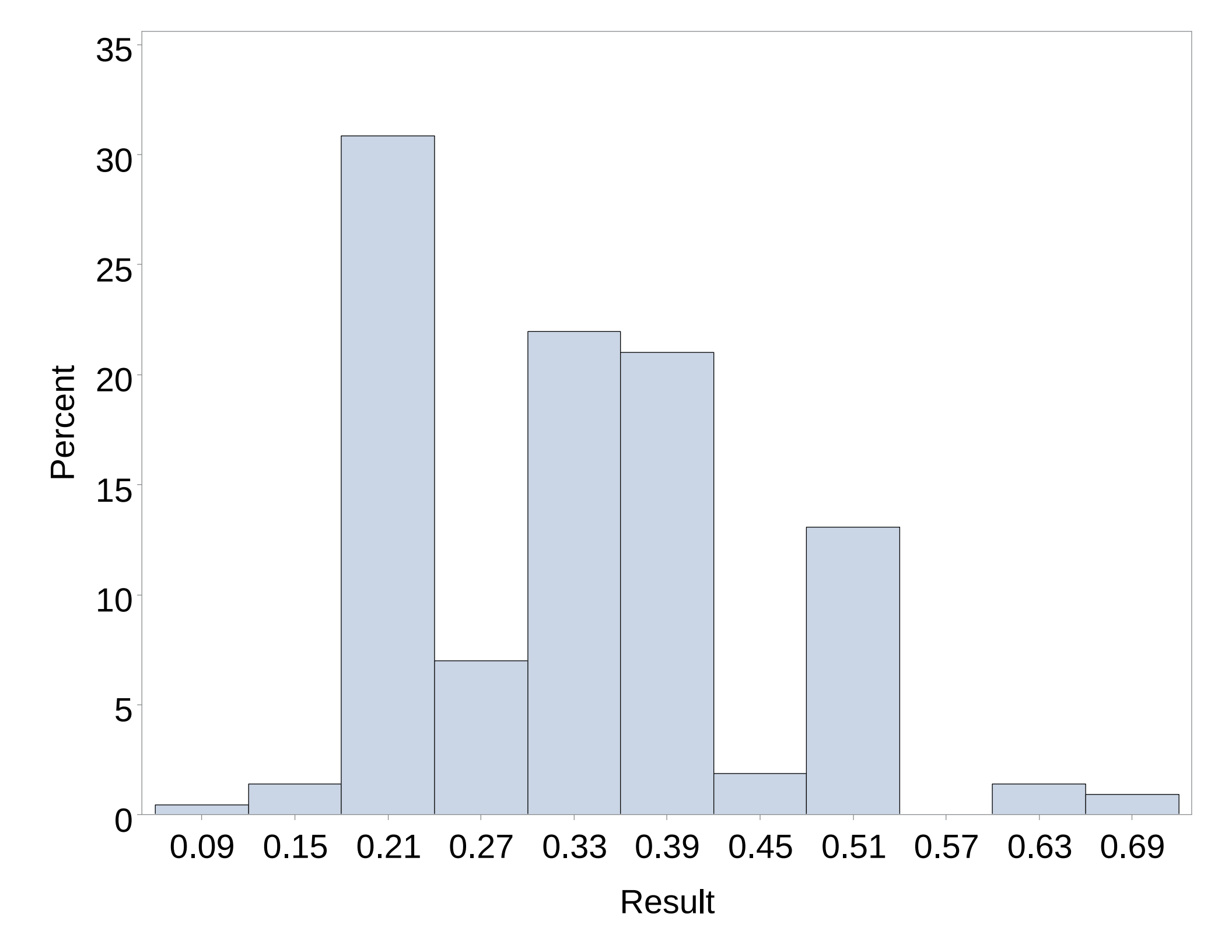
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	40.42654	**Pr > |t|**	<.0001
Sign	**M**	107	**Pr >= |M|**	<.0001
Signed Rank	**S**	11502.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.70
99%	0.60
95%	0.50
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.20
10%	0.20
5%	0.20
1%	0.16
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=25.9 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	58539	0.6	58562
0.13	58682	0.6	58571
0.16	58685	0.6	58644
0.17	58691	0.7	58559
0.18	58683	0.7	58572


35
30
25
20
15
10
5
0
Percent
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
0.57
0.63
0.69
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=29.5 Level=Column

Moments			
N	216	**Sum Weights**	216
Mean	0.34217593	**Sum Observations**	73.91
Std Deviation	0.16021029	**Variance**	0.02566734
Skewness	2.43870399	**Kurtosis**	10.6566475
Uncorrected SS	30.8087	**Corrected SS**	5.51847731
Coeff Variation	46.8210285	**Std Error Mean**	0.01090093

Basic Statistical Measures			
Location		**Variability**	
Mean	0.342176	**Std Deviation**	0.16021
Median	0.300000	**Variance**	0.02567
Mode	0.300000	**Range**	1.26000
		Interquartile Range	0.18000

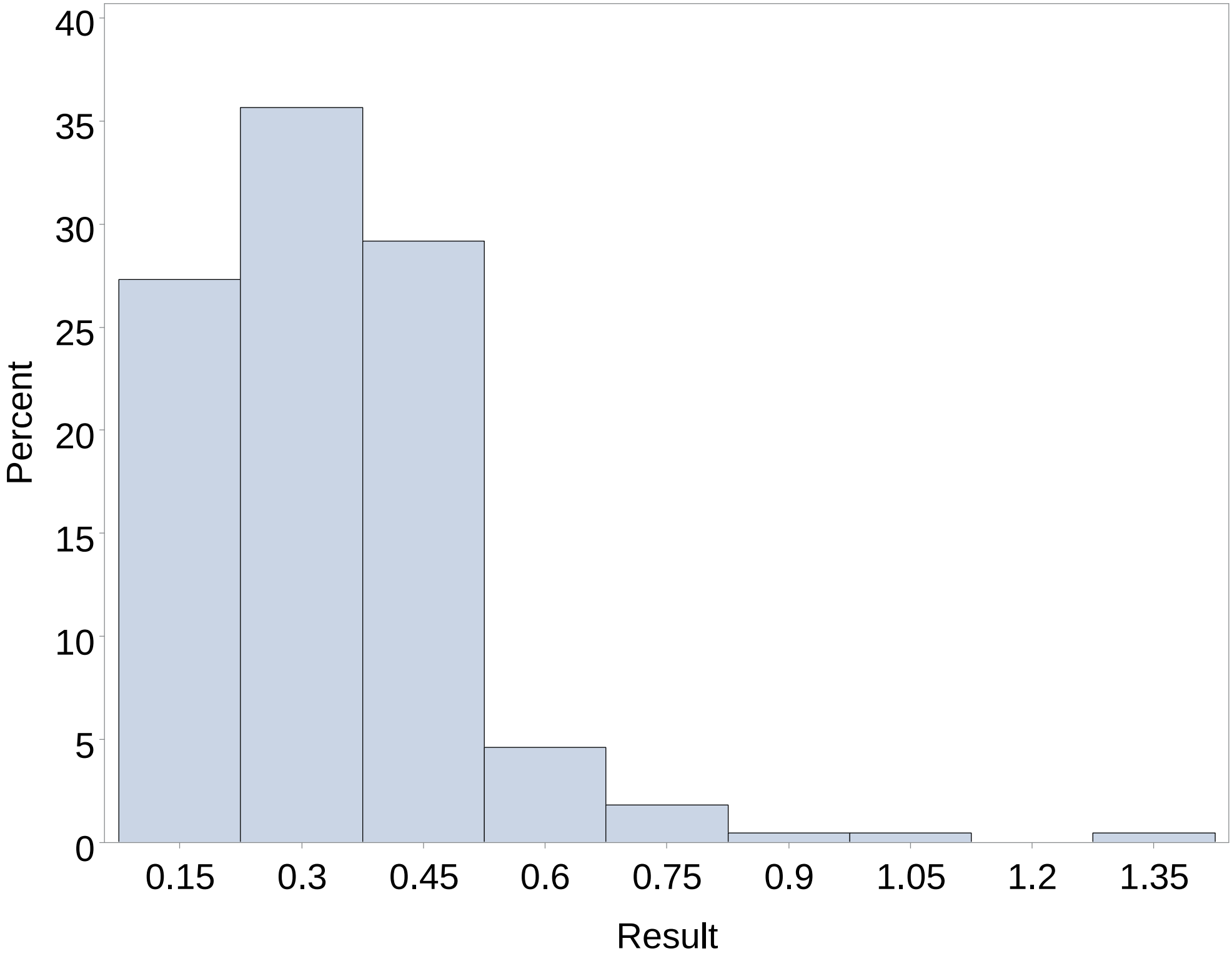
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.38961	**Pr > |t|**	<.0001
Sign	**M**	108	**Pr >= |M|**	<.0001
Signed Rank	**S**	11718	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.40
99%	0.90
95%	0.60
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.22
10%	0.20
5%	0.20
1%	0.15
0% Min	0.14

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=29.5 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.14	58899	0.8	58721
0.14	58898	0.8	58780
0.15	58901	0.9	58707
0.17	58902	1.1	58849
0.17	58888	1.4	58852


40
35
30
25
20
15
10
5
0
Percent
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=30.7 Level=Column

Moments			
N	255	**Sum Weights**	255
Mean	0.3447451	**Sum Observations**	87.91
Std Deviation	0.18235293	**Variance**	0.03325259
Skewness	3.416021	**Kurtosis**	20.5757633
Uncorrected SS	38.7527	**Corrected SS**	8.44615843
Coeff Variation	52.8950039	**Std Error Mean**	0.01141938

Basic Statistical Measures			
Location		**Variability**	
Mean	0.344745	**Std Deviation**	0.18235
Median	0.300000	**Variance**	0.03325
Mode	0.300000	**Range**	1.70000
		Interquartile Range	0.20000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.18947	**Pr > |t|**	<.0001
Sign	**M**	127.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	16320	**Pr >= |S|**	<.0001

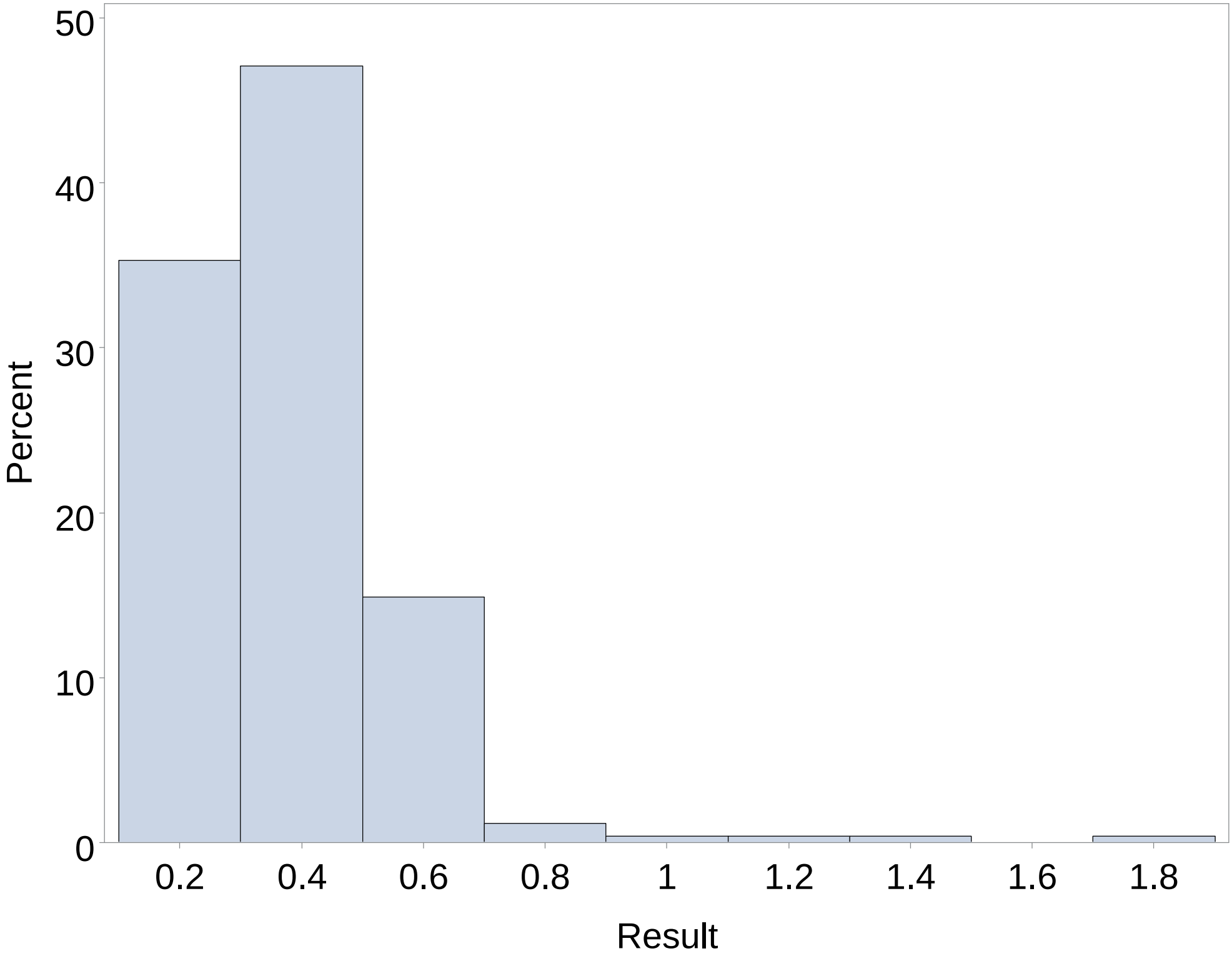
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.80
99%	1.10
95%	0.60
90%	0.50
75% Q3	0.40
50% Median	0.30
25% Q1	0.20
10%	0.20
5%	0.19
1%	0.10
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=30.7 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.1	58949	0.8	59037
0.1	58939	1.0	59106
0.1	58930	1.1	58921
0.1	58926	1.4	59116
0.1	58925	1.8	58932

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.39	100.00


50
40
30
20
10
0
Percent
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=32.3 Level=Column

Moments			
N	215	**Sum Weights**	215
Mean	0.36427907	**Sum Observations**	78.32
Std Deviation	0.2384085	**Variance**	0.05683861
Skewness	4.7956505	**Kurtosis**	34.9836085
Uncorrected SS	40.6938	**Corrected SS**	12.1634633
Coeff Variation	65.4466646	**Std Error Mean**	0.01625932

Basic Statistical Measures			
Location		**Variability**	
Mean	0.364279	**Std Deviation**	0.23841
Median	0.300000	**Variance**	0.05684
Mode	0.200000	**Range**	2.35000
		Interquartile Range	0.20000

Note: The mode displayed is the smallest of 2 modes with a count of 48.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.40432	**Pr > |t|**	<.0001
Sign	**M**	107.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	11610	**Pr >= |S|**	<.0001

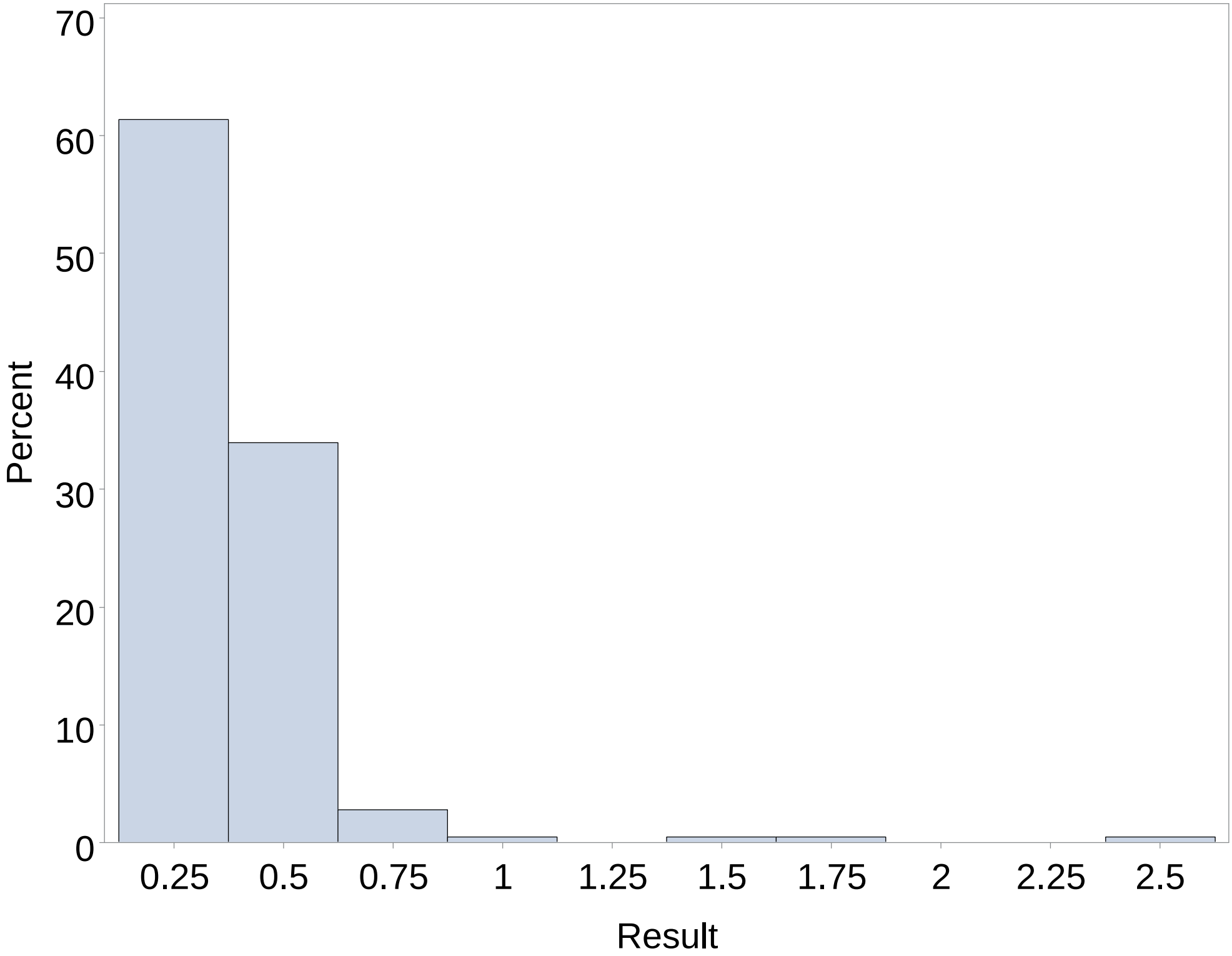
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.50
99%	1.40
95%	0.60
90%	0.60
75% Q3	0.40
50% Median	0.30
25% Q1	0.20
10%	0.20
5%	0.20
1%	0.17
0% Min	0.15

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=50% light depth (m) River Kilometer=32.3 Level=Column

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.15	59371	0.83	59360
0.15	59370	1.00	59321
0.17	59373	1.40	59331
0.18	59379	1.70	59181
0.18	59374	2.50	59324

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.46	100.00


70
60
50
40
30
20
10
0
Percent
0.25
0.5
0.75
1
1.25
1.5
1.75
2
2.25
2.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=-2.4 Level=Bottom

Moments			
N	307	**Sum Weights**	307
Mean	7.74749186	**Sum Observations**	2378.48
Std Deviation	0.2757839	**Variance**	0.07605676
Skewness	-0.3430896	**Kurtosis**	5.13667335
Uncorrected SS	18450.5278	**Corrected SS**	23.2733687
Coeff Variation	3.55965398	**Std Error Mean**	0.01573982

Basic Statistical Measures			
Location		**Variability**	
Mean	7.747492	**Std Deviation**	0.27578
Median	7.780000	**Variance**	0.07606
Mode	7.800000	**Range**	2.88000
		Interquartile Range	0.29000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	492.2224	**Pr > |t|**	<.0001
Sign	**M**	153.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23639	**Pr >= |S|**	<.0001

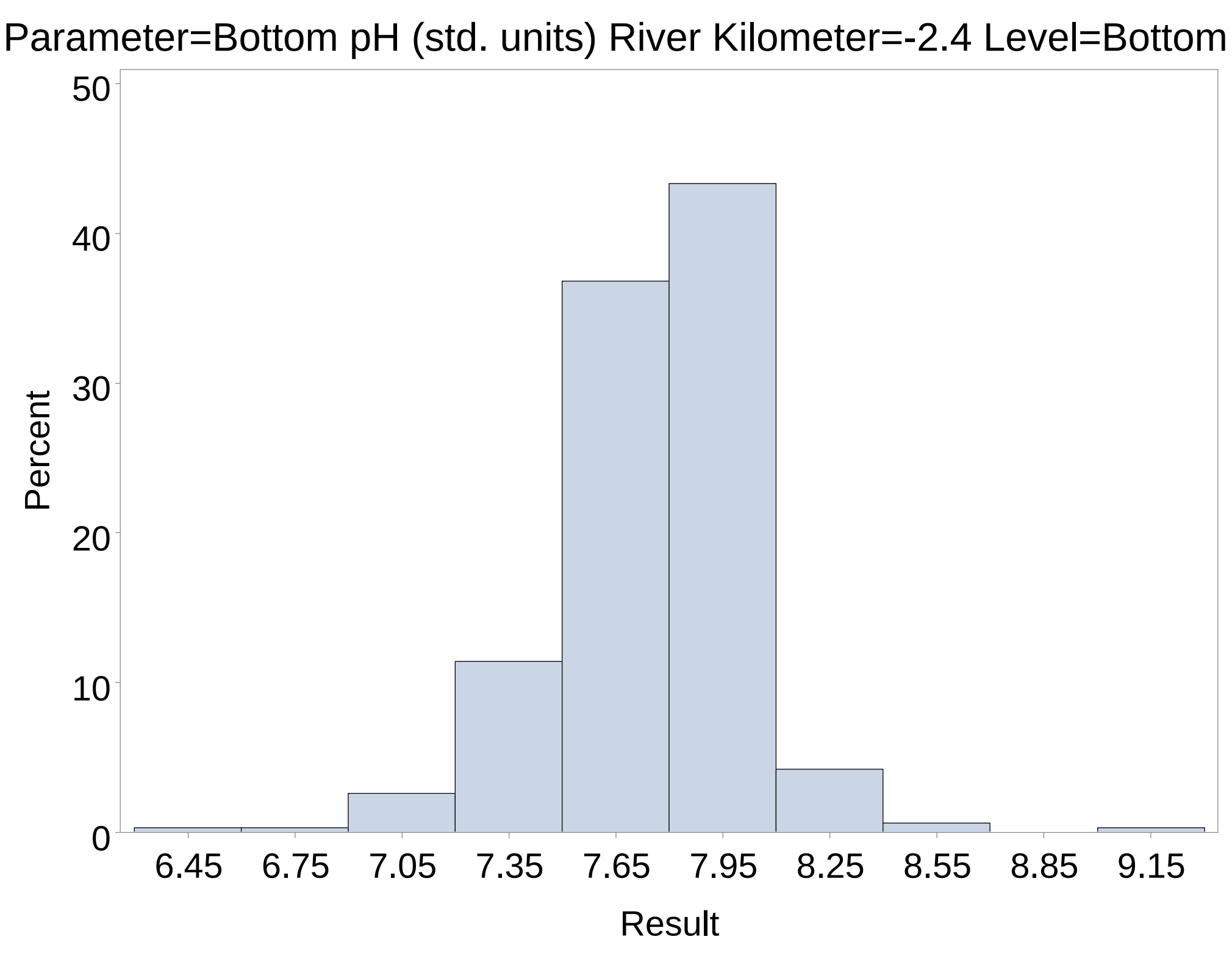
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.28
99%	8.26
95%	8.10
90%	8.04
75% Q3	7.90
50% Median	7.78
25% Q1	7.61
10%	7.42
5%	7.26
1%	6.96
0% Min	6.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.40	59531	8.23	59694
6.65	59530	8.26	59678
6.95	59509	8.40	59590
6.96	59633	8.52	59583
7.04	59552	9.28	59586

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.97	100.00


Parameter=Bottom pH (std. units) River Kilometer=-2.4 Level=Bottom
50
40
30
20
10
0
Percent
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=6.6 Level=Bottom

Moments			
N	311	**Sum Weights**	311
Mean	7.63700965	**Sum Observations**	2375.11
Std Deviation	0.33319625	**Variance**	0.11101974
Skewness	-0.3779945	**Kurtosis**	3.56511792
Uncorrected SS	18173.1541	**Corrected SS**	34.416119
Coeff Variation	4.36291509	**Std Error Mean**	0.01889383

Basic Statistical Measures			
Location		**Variability**	
Mean	7.637010	**Std Deviation**	0.33320
Median	7.680000	**Variance**	0.11102
Mode	7.800000	**Range**	3.15000
		Interquartile Range	0.37000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	404.2066	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

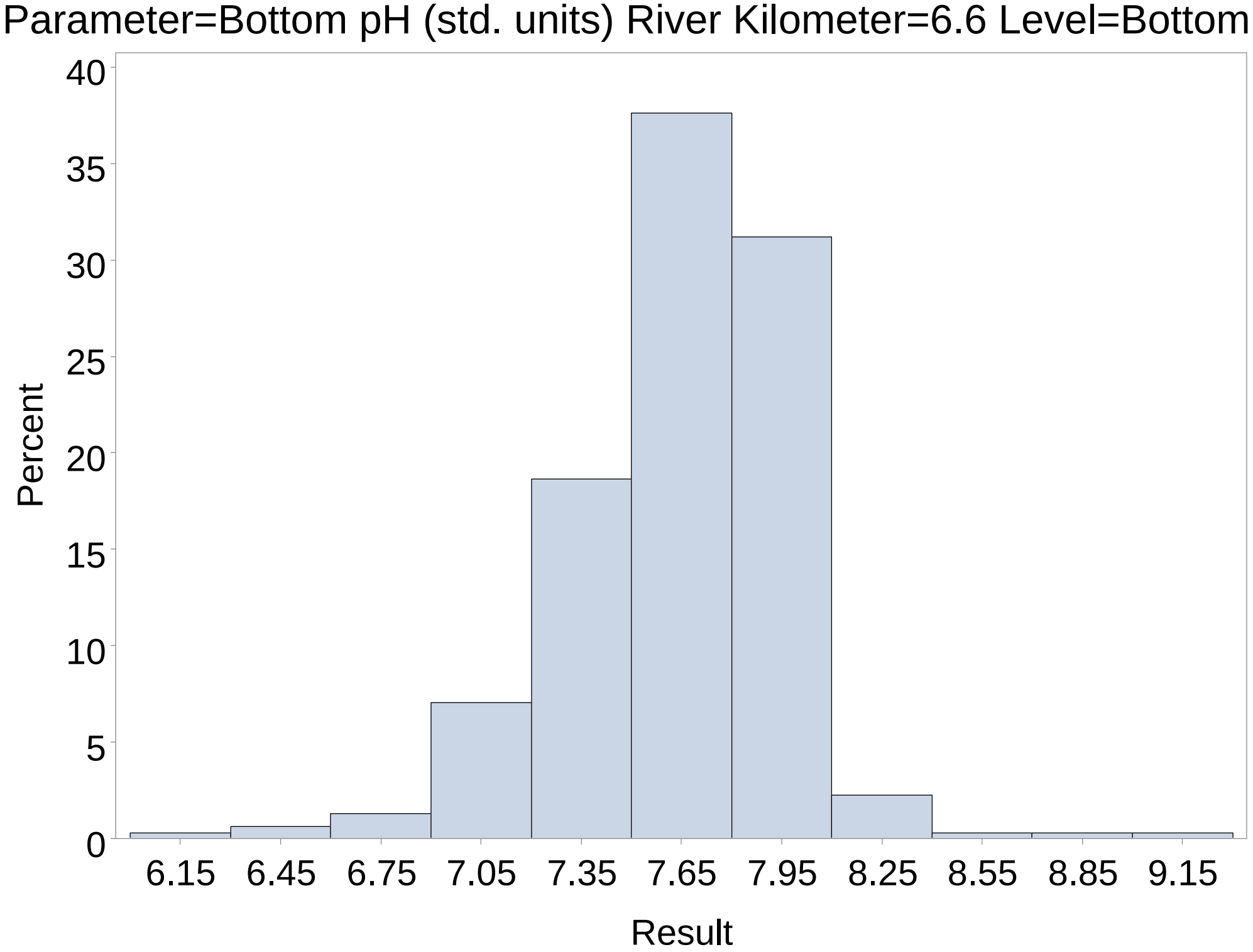
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.28
99%	8.32
95%	8.07
90%	7.97
75% Q3	7.83
50% Median	7.68
25% Q1	7.46
10%	7.25
5%	7.01
1%	6.72
0% Min	6.13

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.13	59844	8.24	60008
6.50	59843	8.32	59750
6.50	59737	8.47	59896
6.72	59735	8.79	59903
6.80	59947	9.28	59899

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.96	100.00


Parameter=Bottom pH (std. units) River Kilometer=6.6 Level=Bottom
Percent
0
5
10
15
20
25
30
35
40
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=8.4 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.59811321	**Sum Observations**	2013.5
Std Deviation	0.36965205	**Variance**	0.13664264
Skewness	-0.6552783	**Kurtosis**	2.88381072
Uncorrected SS	15334.8746	**Corrected SS**	36.0736566
Coeff Variation	4.86505058	**Std Error Mean**	0.02270754

Basic Statistical Measures			
Location		**Variability**	
Mean	7.598113	**Std Deviation**	0.36965
Median	7.640000	**Variance**	0.13664
Mode	7.500000	**Range**	3.12000
		Interquartile Range	0.37000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	334.6074	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

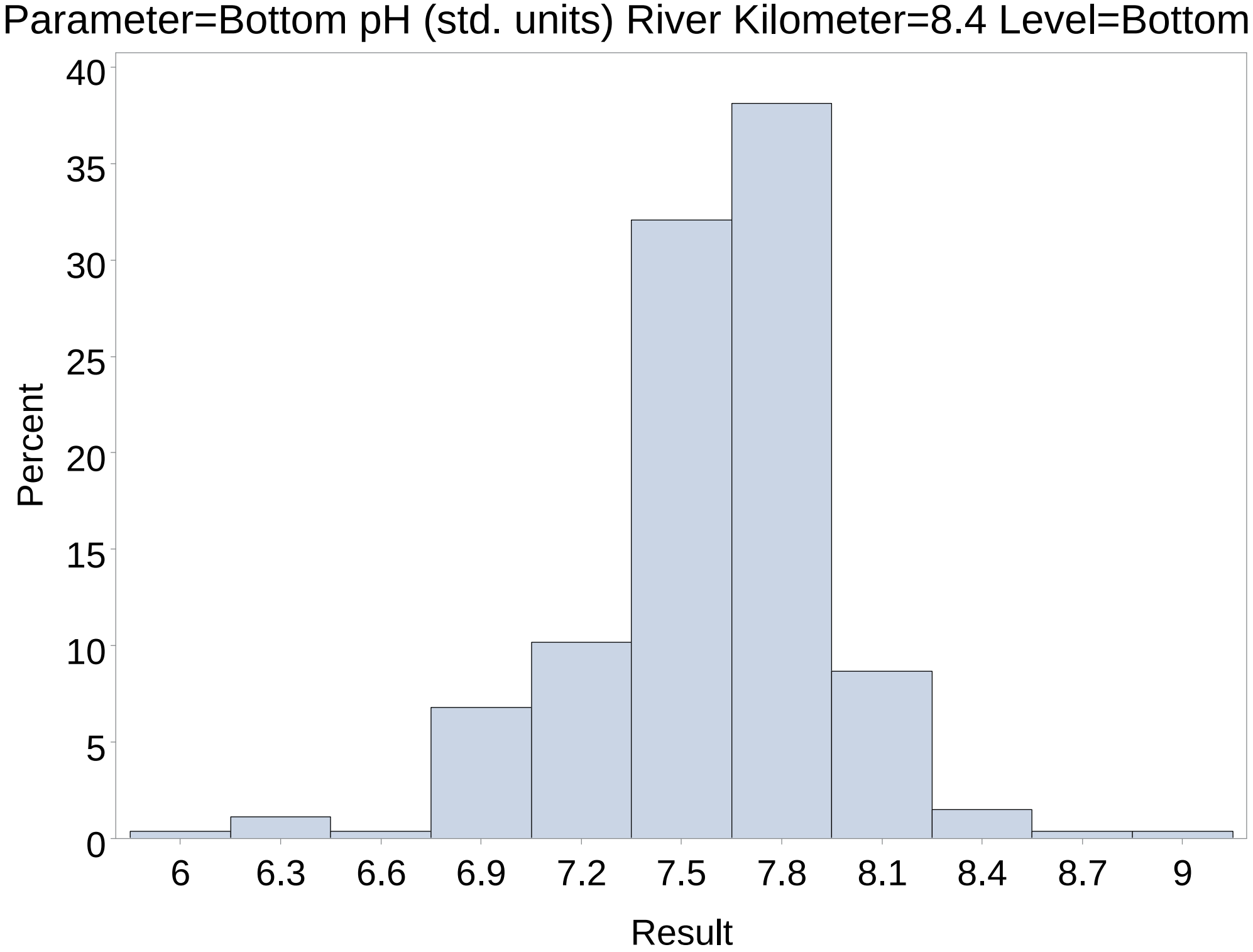
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.06
99%	8.43
95%	8.07
90%	7.96
75% Q3	7.82
50% Median	7.64
25% Q1	7.45
10%	7.07
5%	6.95
1%	6.38
0% Min	5.94

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=8.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.94	60112	8.30	60234
6.33	60240	8.33	60227
6.38	60111	8.43	60164
6.41	60032	8.76	60171
6.73	60031	9.06	60167

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


Parameter=Bottom pH (std. units) River Kilometer=8.4 Level=Bottom
Percent
0
5
10
15
20
25
30
35
40
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=10.5 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.52132075	**Sum Observations**	1993.15
Std Deviation	0.38570301	**Variance**	0.14876681
Skewness	-0.2098935	**Kurtosis**	1.45807447
Uncorrected SS	15030.3949	**Corrected SS**	39.2744377
Coeff Variation	5.12812868	**Std Error Mean**	0.02369355

Basic Statistical Measures			
Location		**Variability**	
Mean	7.521321	**Std Deviation**	0.38570
Median	7.550000	**Variance**	0.14877
Mode	7.600000	**Range**	2.81000
		Interquartile Range	0.47000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	317.4417	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

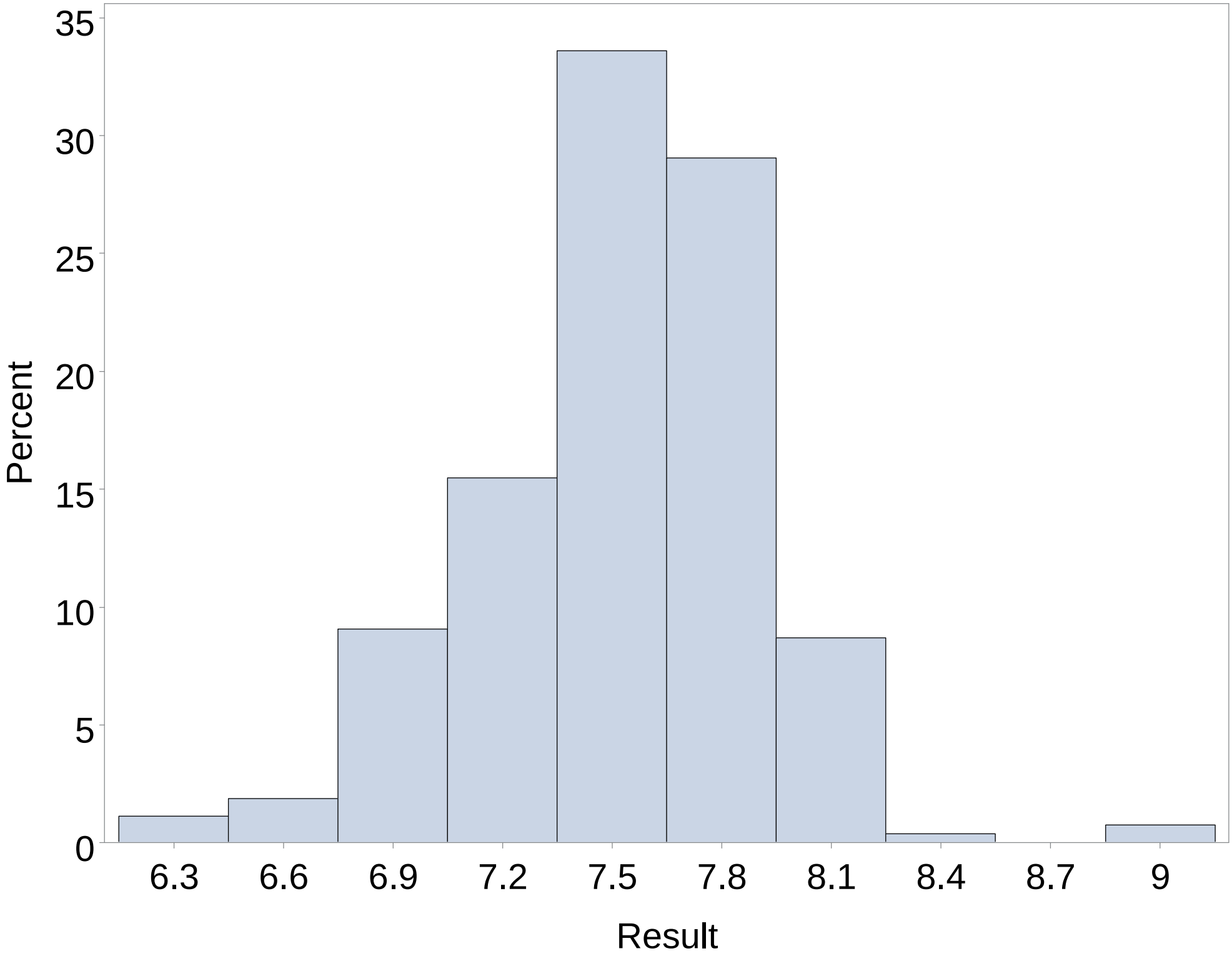
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.02
99%	8.43
95%	8.07
90%	7.92
75% Q3	7.77
50% Median	7.55
25% Q1	7.30
10%	6.98
5%	6.85
1%	6.39
0% Min	6.21

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=10.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.21	60380	8.17	60381
6.36	60484	8.24	60494
6.39	60379	8.43	60432
6.60	60300	8.93	60435
6.64	60401	9.02	60439

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=12.7 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.43750943	**Sum Observations**	1970.94
Std Deviation	0.38756308	**Variance**	0.15020514
Skewness	-0.1331977	**Kurtosis**	1.13780377
Uncorrected SS	14698.539	**Corrected SS**	39.6541562
Coeff Variation	5.21092549	**Std Error Mean**	0.02380781

Basic Statistical Measures			
Location		**Variability**	
Mean	7.437509	**Std Deviation**	0.38756
Median	7.460000	**Variance**	0.15021
Mode	7.700000	**Range**	2.59000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	312.3979	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

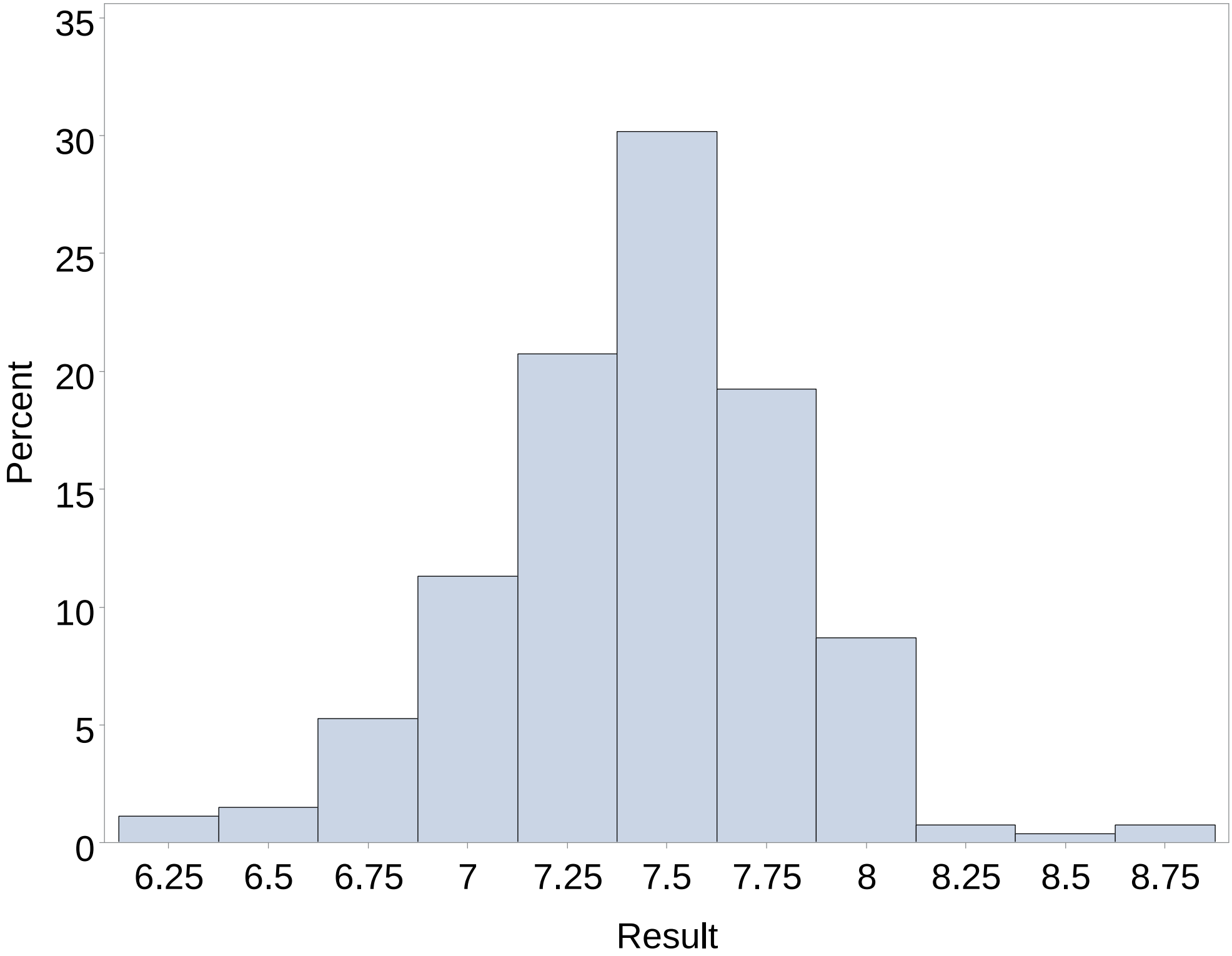
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.82
99%	8.44
95%	8.00
90%	7.88
75% Q3	7.70
50% Median	7.46
25% Q1	7.20
10%	6.94
5%	6.75
1%	6.36
0% Min	6.23

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=12.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.23	60647	8.23	60812
6.24	60648	8.37	60700
6.36	60752	8.44	60762
6.43	60568	8.80	60707
6.51	60631	8.82	60703

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6.25
6.5
6.75
7
7.25
7.5
7.75
8
8.25
8.5
8.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=12.8 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.41237736	**Sum Observations**	1964.28
Std Deviation	0.394977	**Variance**	0.15600683
Skewness	-0.194974	**Kurtosis**	0.93327448
Uncorrected SS	14601.1704	**Corrected SS**	41.1858023
Coeff Variation	5.32861424	**Std Error Mean**	0.02426324

Basic Statistical Measures			
Location		**Variability**	
Mean	7.412377	**Std Deviation**	0.39498
Median	7.450000	**Variance**	0.15601
Mode	7.360000	**Range**	2.71000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	305.4982	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

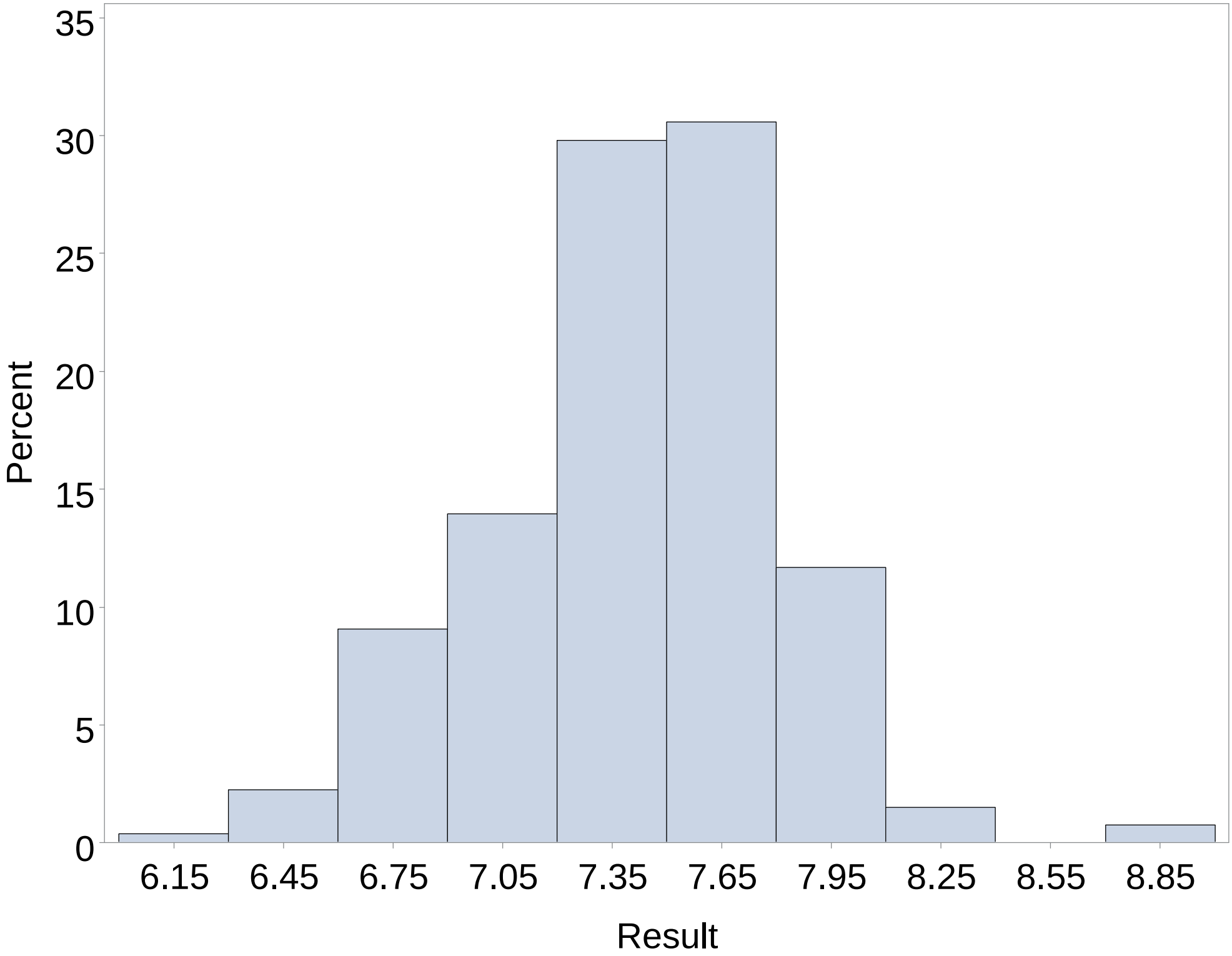
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.83
99%	8.37
95%	7.96
90%	7.87
75% Q3	7.67
50% Median	7.45
25% Q1	7.17
10%	6.87
5%	6.74
1%	6.34
0% Min	6.12

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=12.8 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.12	60916	8.18	61080
6.30	60915	8.31	60968
6.34	61020	8.37	61030
6.47	60937	8.70	60971
6.47	60899	8.83	60975

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=15.5 Level=Bottom

Moments			
N	312	**Sum Weights**	312
Mean	7.34182692	**Sum Observations**	2290.65
Std Deviation	0.3873019	**Variance**	0.15000276
Skewness	0.09029085	**Kurtosis**	1.21446729
Uncorrected SS	16864.2067	**Corrected SS**	46.6508587
Coeff Variation	5.27527961	**Std Error Mean**	0.02192665

Basic Statistical Measures			
Location		**Variability**	
Mean	7.341827	**Std Deviation**	0.38730
Median	7.350000	**Variance**	0.15000
Mode	7.400000	**Range**	2.84000
		Interquartile Range	0.47500

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**	334.8357	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

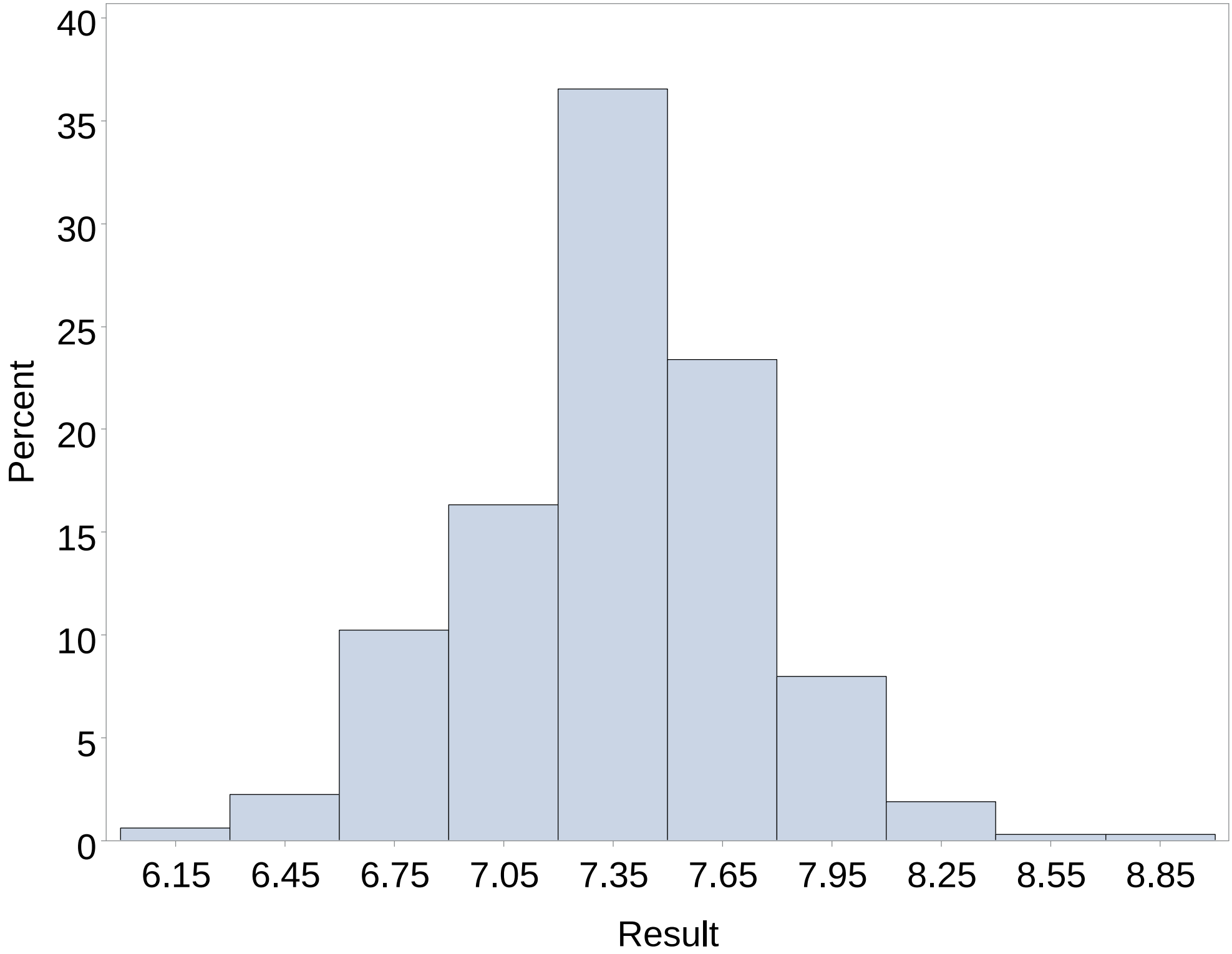
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.980
99%	8.300
95%	7.870
90%	7.800
75% Q3	7.600
50% Median	7.350
25% Q1	7.125
10%	6.850
5%	6.670
1%	6.420
0% Min	6.140

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.14	61230	8.28	61137
6.27	61135	8.30	61283
6.33	61335	8.31	61345
6.42	61115	8.65	61286
6.45	61252	8.98	61290

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.95	100.00


40
35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=17.5 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.29358491	**Sum Observations**	1932.8
Std Deviation	0.39026358	**Variance**	0.15230566
Skewness	0.05438934	**Kurtosis**	1.46016977
Uncorrected SS	14137.2496	**Corrected SS**	40.2086943
Coeff Variation	5.35077857	**Std Error Mean**	0.0239737

Basic Statistical Measures			
Location		**Variability**	
Mean	7.293585	**Std Deviation**	0.39026
Median	7.300000	**Variance**	0.15231
Mode	7.300000	**Range**	2.80000
		Interquartile Range	0.45000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	304.2327	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

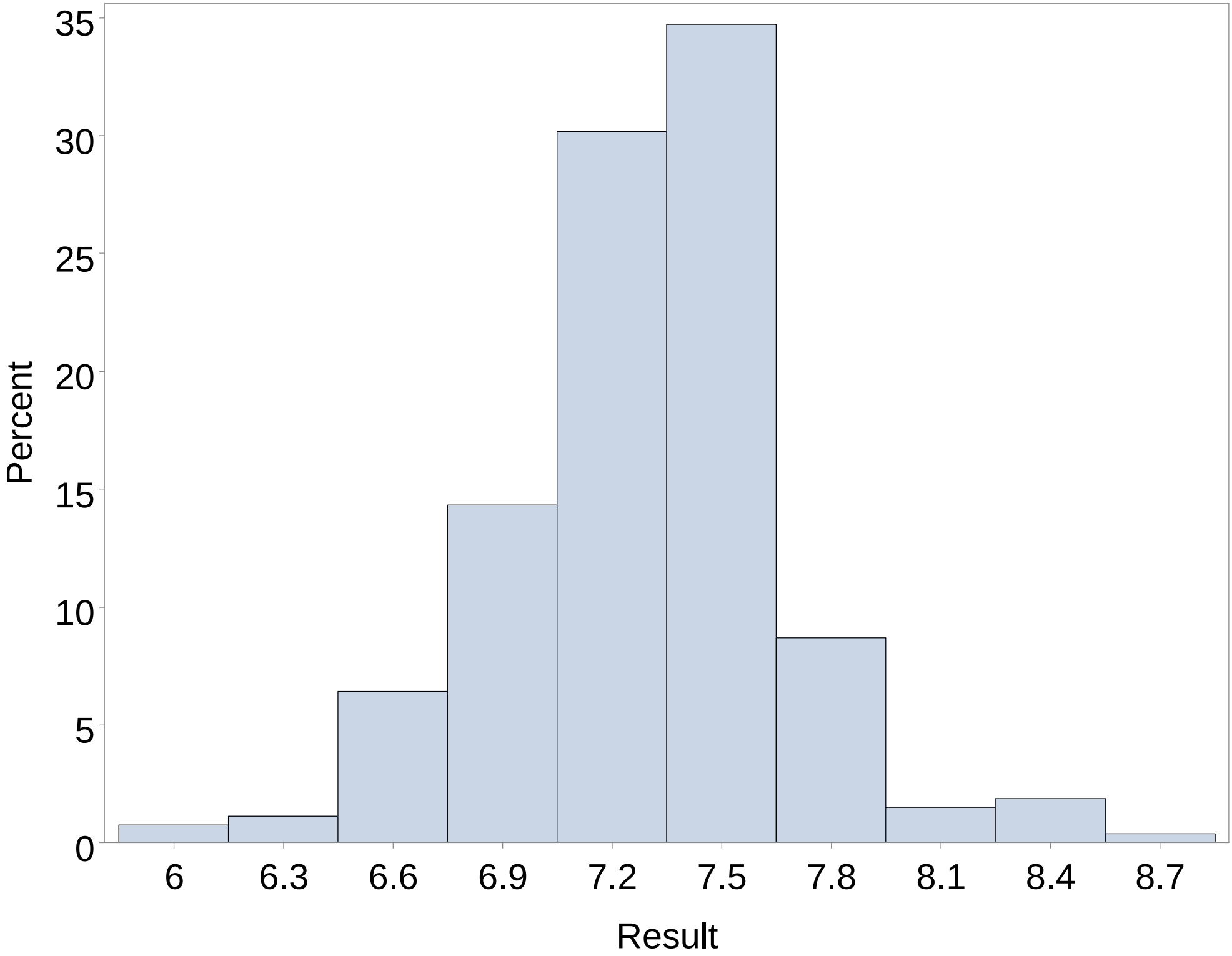
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.77
99%	8.45
95%	7.89
90%	7.70
75% Q3	7.53
50% Median	7.30
25% Q1	7.08
10%	6.81
5%	6.64
1%	6.29
0% Min	5.97

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=17.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.97	61499	8.29	61426
6.13	61498	8.30	61551
6.29	61603	8.45	61558
6.35	61478	8.51	61613
6.39	61520	8.77	61554

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=20.1 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.22645283	**Sum Observations**	1915.01
Std Deviation	0.37576521	**Variance**	0.14119949
Skewness	0.35641685	**Kurtosis**	2.40984377
Uncorrected SS	13876.0061	**Corrected SS**	37.2766657
Coeff Variation	5.19985692	**Std Error Mean**	0.02308307

Basic Statistical Measures			
Location		**Variability**	
Mean	7.226453	**Std Deviation**	0.37577
Median	7.240000	**Variance**	0.14120
Mode	7.330000	**Range**	2.79000
		Interquartile Range	0.43000

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**	313.0629	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

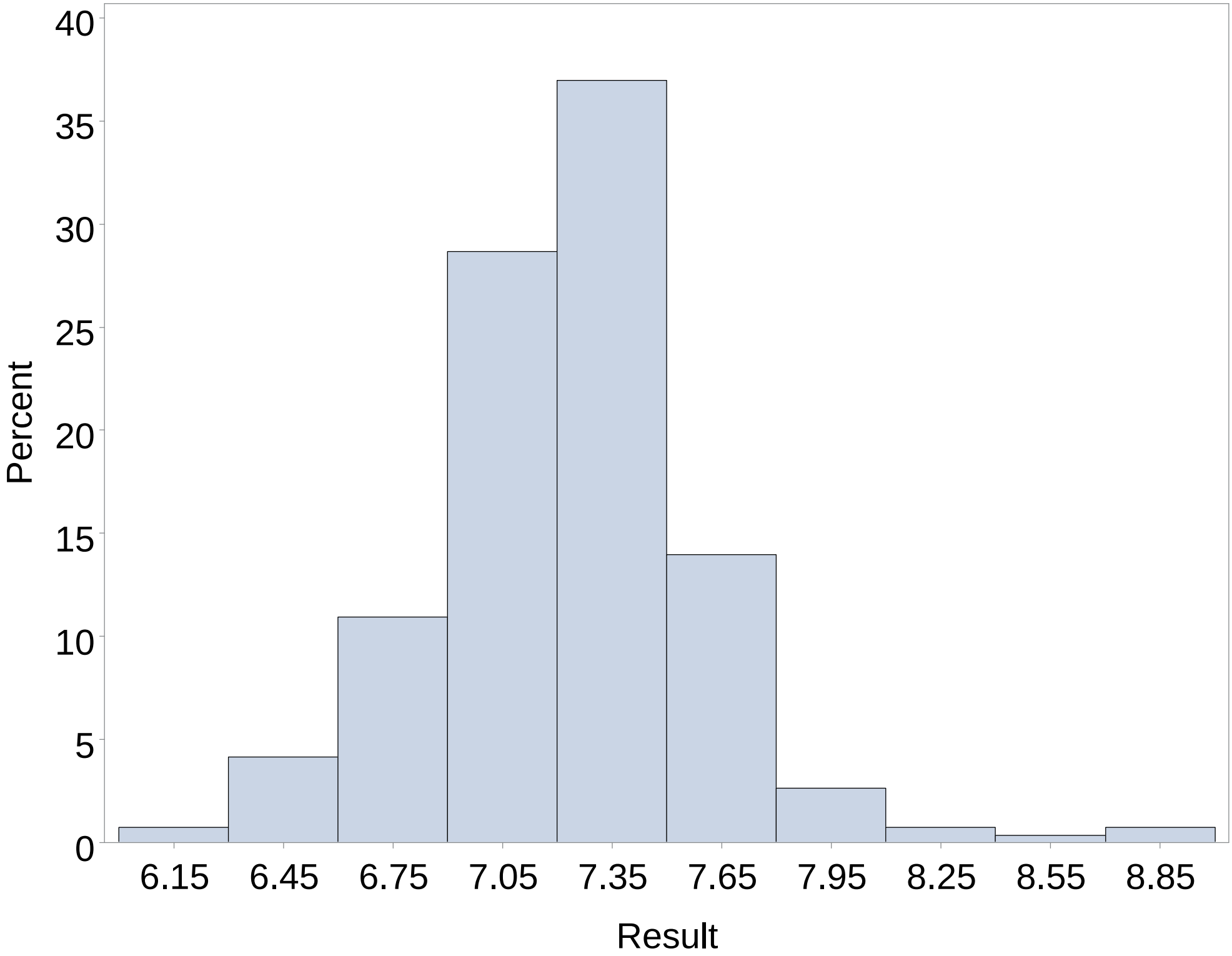
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.82
99%	8.47
95%	7.76
90%	7.61
75% Q3	7.43
50% Median	7.24
25% Q1	7.00
10%	6.79
5%	6.62
1%	6.33
0% Min	6.03

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=20.1 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.03	61767	8.23	61819
6.12	61766	8.23	61915
6.33	61871	8.47	61881
6.37	61788	8.74	61822
6.37	61746	8.82	61826

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


40
35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=21.9 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.23928302	**Sum Observations**	1918.41
Std Deviation	0.40045695	**Variance**	0.16036577
Skewness	0.60644303	**Kurtosis**	2.1630607
Uncorrected SS	13930.2495	**Corrected SS**	42.3365638
Coeff Variation	5.5317212	**Std Error Mean**	0.02459988

Basic Statistical Measures			
Location		**Variability**	
Mean	7.239283	**Std Deviation**	0.40046
Median	7.240000	**Variance**	0.16037
Mode	7.300000	**Range**	2.70000
		Interquartile Range	0.42000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	294.2813	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

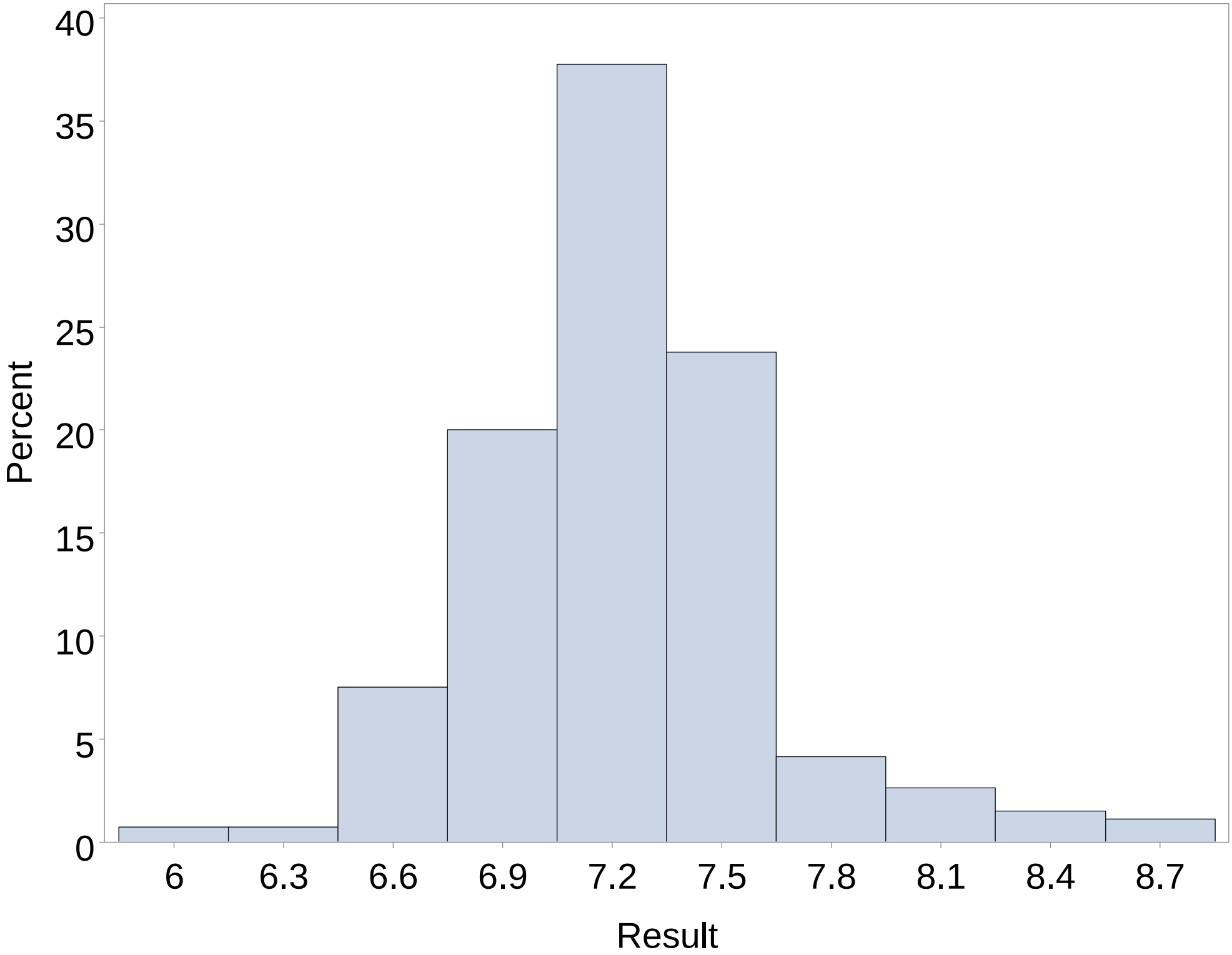
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.73
99%	8.60
95%	7.96
90%	7.61
75% Q3	7.43
50% Median	7.24
25% Q1	7.01
10%	6.76
5%	6.63
1%	6.34
0% Min	6.03

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=21.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.03	62035	8.45	62094
6.10	62034	8.46	62048
6.34	62139	8.60	62149
6.38	62056	8.72	62192
6.47	62164	8.73	62090

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


40
35
30
25
20
15
10
5
0
Percent
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=23.6 Level=Bottom

Moments			
N	312	**Sum Weights**	312
Mean	7.20483974	**Sum Observations**	2247.91
Std Deviation	0.39928711	**Variance**	0.1594302
Skewness	0.67919109	**Kurtosis**	2.74065067
Uncorrected SS	16245.4141	**Corrected SS**	49.582792
Coeff Variation	5.54192915	**Std Error Mean**	0.02260518

Basic Statistical Measures			
Location		**Variability**	
Mean	7.204840	**Std Deviation**	0.39929
Median	7.200000	**Variance**	0.15943
Mode	7.200000	**Range**	3.07000
		Interquartile Range	0.42000

Note: The mode displayed is the smallest of 2 modes with a count of 12.

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	318.7251	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

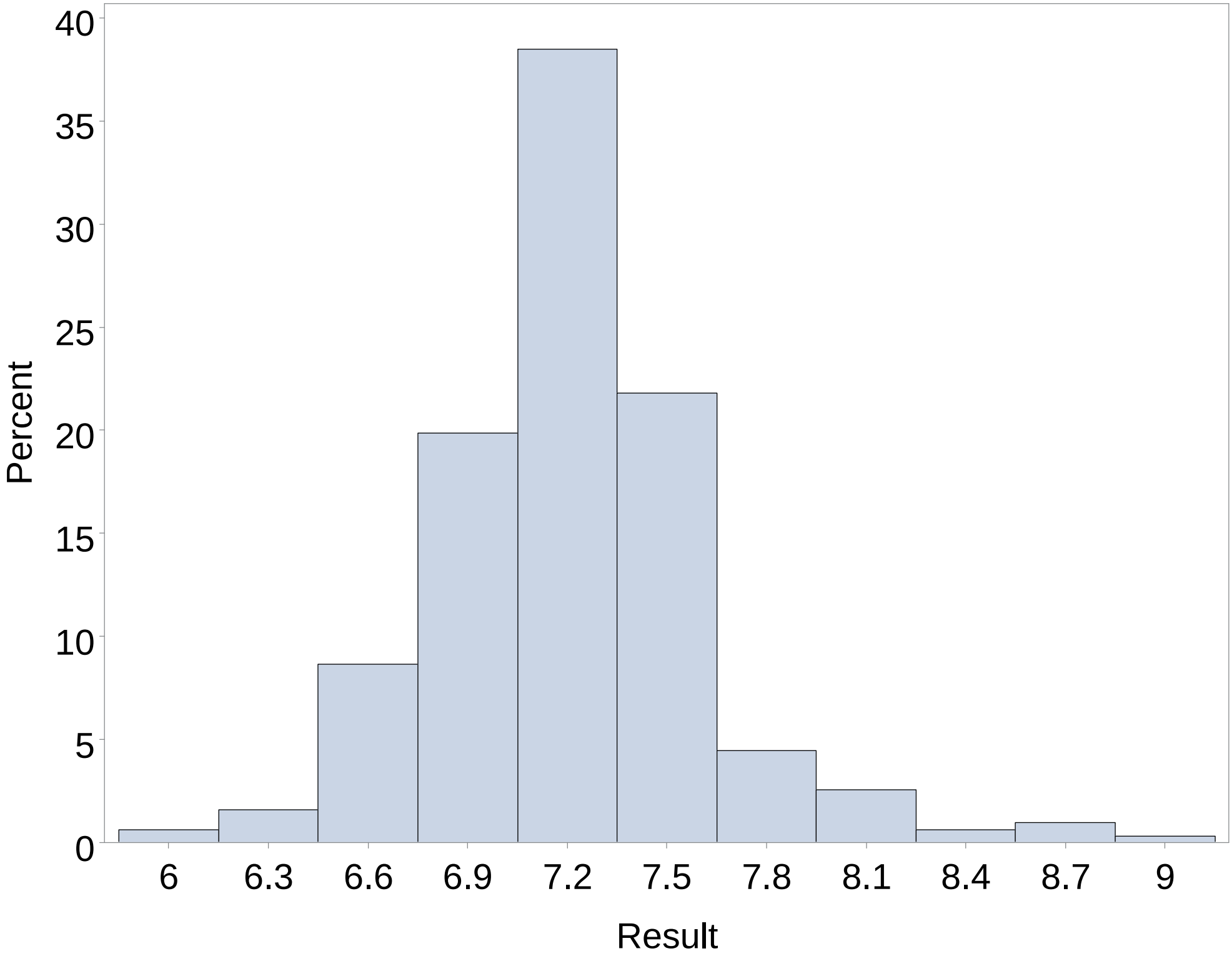
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.04
99%	8.57
95%	7.82
90%	7.58
75% Q3	7.40
50% Median	7.20
25% Q1	6.98
10%	6.73
5%	6.56
1%	6.37
0% Min	5.97

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.97	62350	8.41	62364
6.09	62349	8.57	62354
6.36	62234	8.64	62405
6.37	62454	8.66	62409
6.38	62479	9.04	62507

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.95	100.00


40
35
30
25
20
15
10
5
0
Percent
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=24.7 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.26664151	**Sum Observations**	1925.66
Std Deviation	0.42718827	**Variance**	0.18248981
Skewness	0.64988565	**Kurtosis**	1.91651941
Uncorrected SS	14041.2582	**Corrected SS**	48.1773109
Coeff Variation	5.87875795	**Std Error Mean**	0.02624197

Basic Statistical Measures			
Location		**Variability**	
Mean	7.266642	**Std Deviation**	0.42719
Median	7.260000	**Variance**	0.18249
Mode	7.000000	**Range**	2.89000
		Interquartile Range	0.48000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	276.9092	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

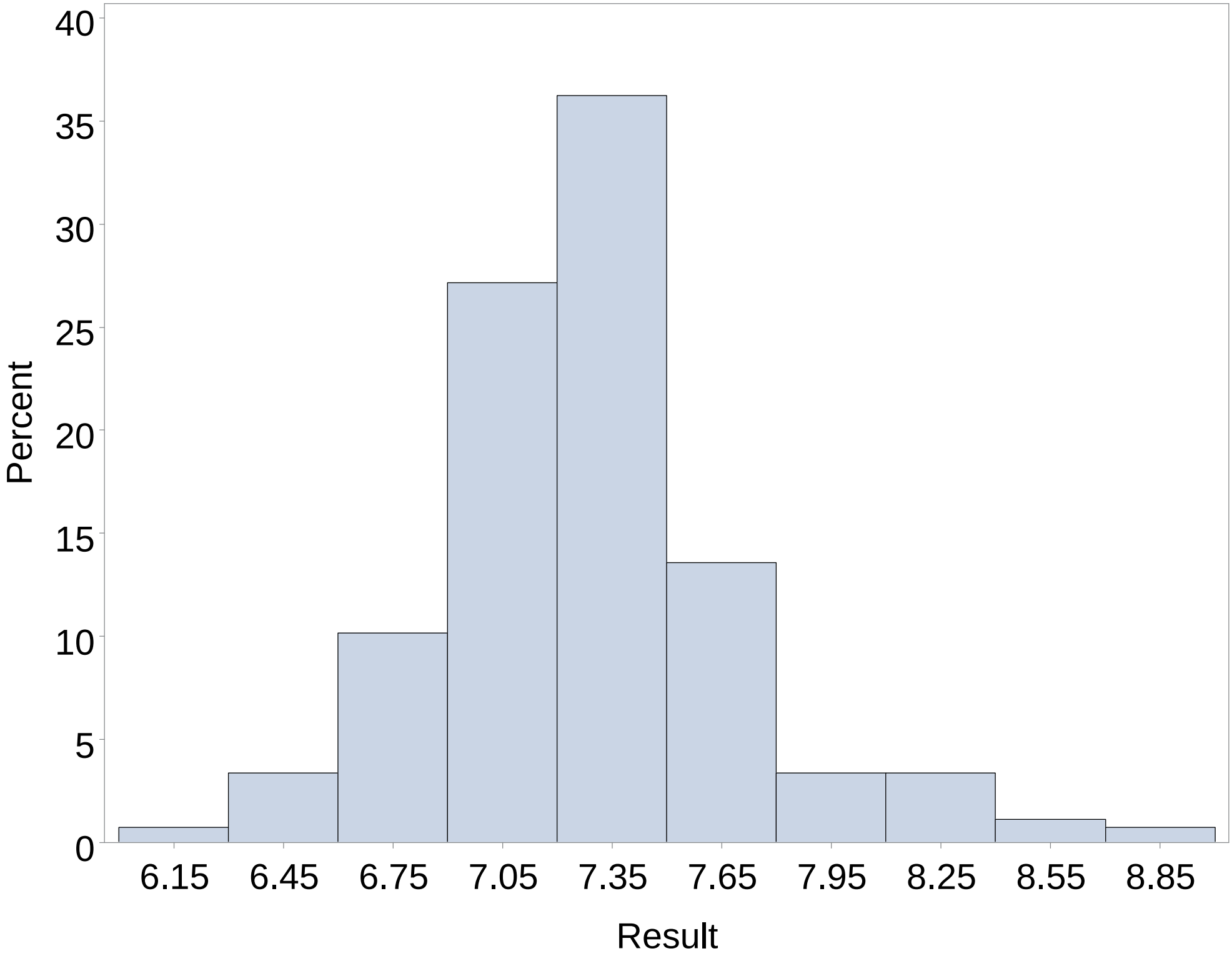
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.92
99%	8.66
95%	8.14
90%	7.69
75% Q3	7.48
50% Median	7.26
25% Q1	7.00
10%	6.77
5%	6.61
1%	6.34
0% Min	6.03

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=24.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.03	62618	8.45	62610
6.09	62617	8.50	62632
6.34	62639	8.66	62673
6.39	62538	8.77	62622
6.41	62747	8.92	62775

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


40
35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=25.9 Level=Bottom

Moments			
N	264	**Sum Weights**	264
Mean	7.31401515	**Sum Observations**	1930.9
Std Deviation	0.4518906	**Variance**	0.20420511
Skewness	0.66094046	**Kurtosis**	1.93384059
Uncorrected SS	14176.3378	**Corrected SS**	53.7059439
Coeff Variation	6.17842028	**Std Error Mean**	0.02781194

Basic Statistical Measures			
Location		**Variability**	
Mean	7.314015	**Std Deviation**	0.45189
Median	7.290000	**Variance**	0.20421
Mode	7.100000	**Range**	2.96000
		Interquartile Range	0.49500

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	262.9811	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

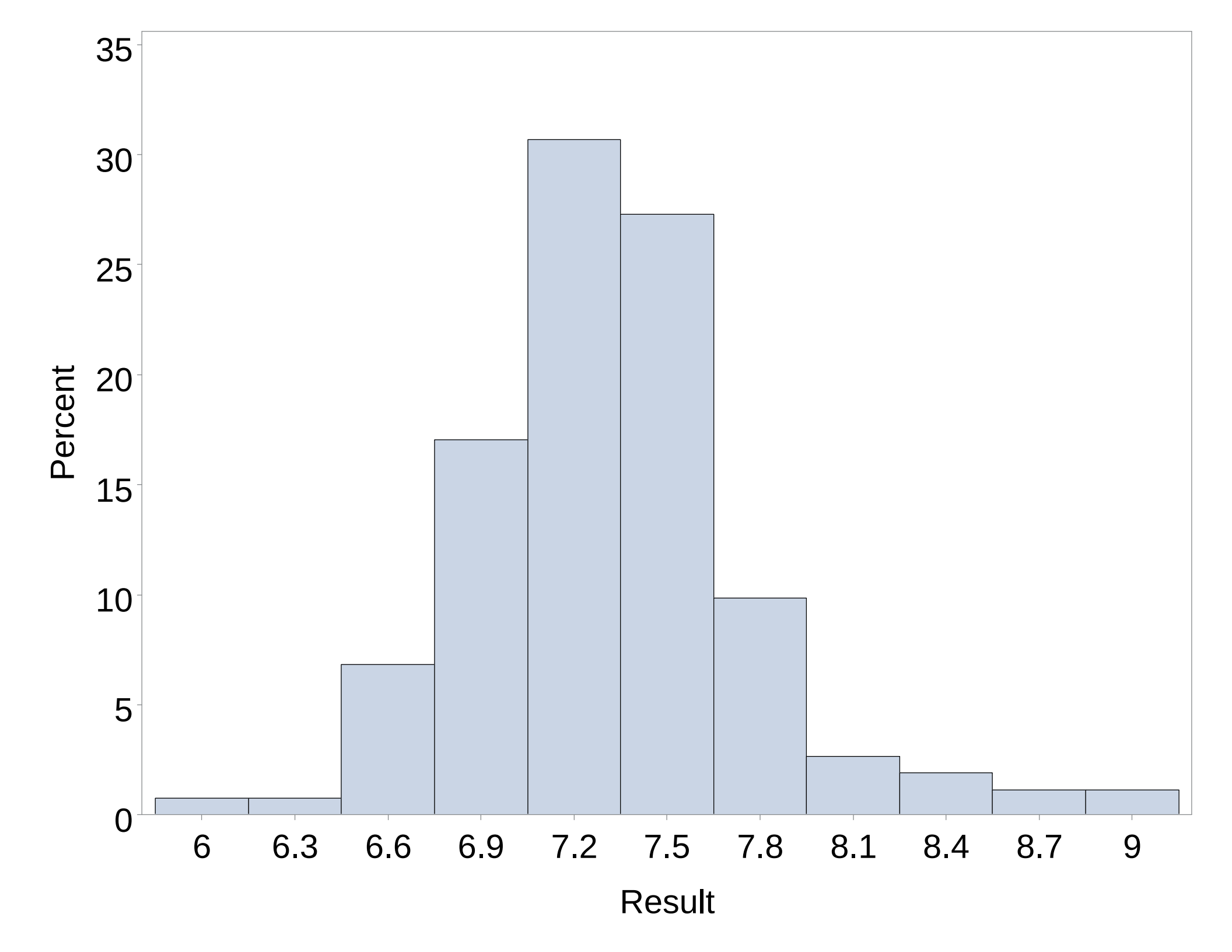
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.950
99%	8.900
95%	8.080
90%	7.800
75% Q3	7.535
50% Median	7.290
25% Q1	7.040
10%	6.800
5%	6.630
1%	6.350
0% Min	5.990

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=25.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.99	62885	8.65	63042
6.09	62884	8.70	62999
6.35	62989	8.90	62899
6.35	62906	8.93	62889
6.46	63014	8.95	63044

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=29.5 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	7.32060377	**Sum Observations**	1939.96
Std Deviation	0.50025184	**Variance**	0.25025191
Skewness	-0.6763188	**Kurtosis**	4.27005895
Uncorrected SS	14267.745	**Corrected SS**	66.0665034
Coeff Variation	6.83347793	**Std Error Mean**	0.03073023

Basic Statistical Measures			
Location		**Variability**	
Mean	7.320604	**Std Deviation**	0.50025
Median	7.340000	**Variance**	0.25025
Mode	7.000000	**Range**	4.22000
		Interquartile Range	0.57000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	238.2216	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

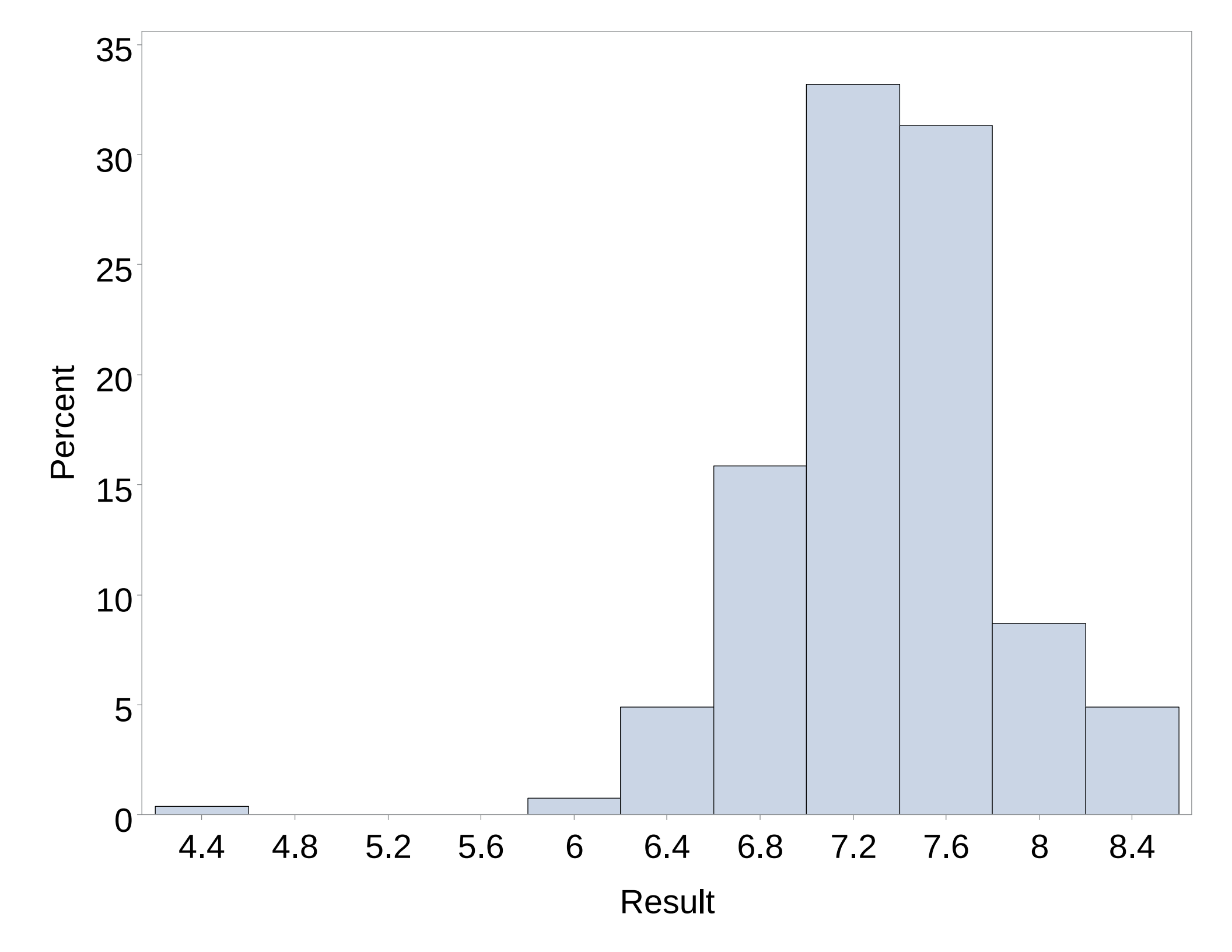
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.57
99%	8.50
95%	8.15
90%	7.90
75% Q3	7.60
50% Median	7.34
25% Q1	7.03
10%	6.72
5%	6.56
1%	6.06
0% Min	4.35

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=29.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.35	63273	8.41	63157
5.96	63153	8.49	63312
6.06	63152	8.50	63301
6.21	63303	8.54	63075
6.30	63281	8.57	63208

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
4.4
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=30.7 Level=Bottom

Moments			
N	312	**Sum Weights**	312
Mean	7.37278846	**Sum Observations**	2300.31
Std Deviation	0.47052708	**Variance**	0.22139574
Skewness	0.1248282	**Kurtosis**	0.3712534
Uncorrected SS	17028.5531	**Corrected SS**	68.854074
Coeff Variation	6.381942	**Std Error Mean**	0.02663835

Basic Statistical Measures			
Location		**Variability**	
Mean	7.372788	**Std Deviation**	0.47053
Median	7.365000	**Variance**	0.22140
Mode	7.600000	**Range**	2.90000
		Interquartile Range	0.59500

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	276.7735	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

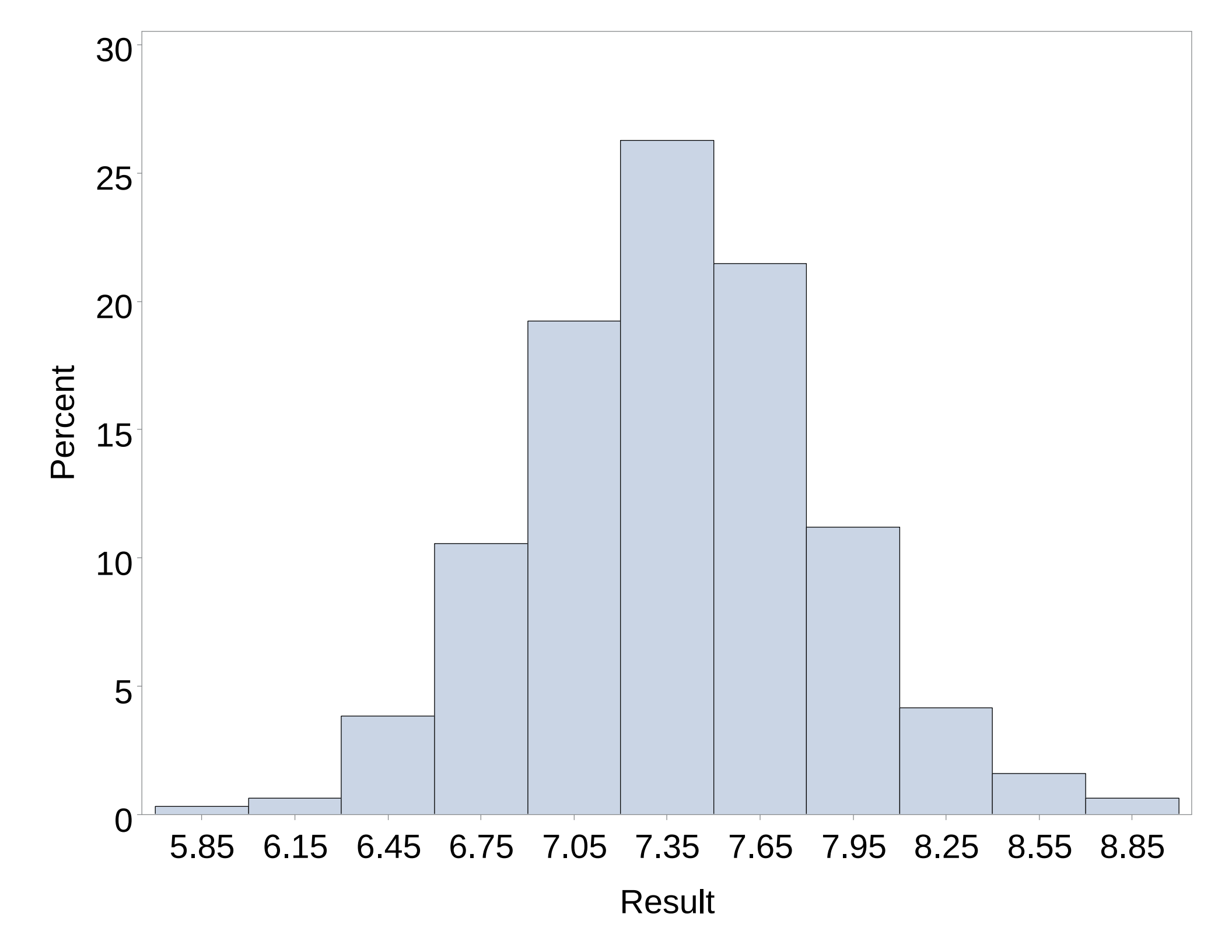
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.860
99%	8.640
95%	8.190
90%	7.920
75% Q3	7.675
50% Median	7.365
25% Q1	7.080
10%	6.800
5%	6.600
1%	6.350
0% Min	5.960

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.96	63468	8.47	63527
6.05	63467	8.64	63523
6.29	63596	8.65	63365
6.35	63597	8.75	63616
6.37	63489	8.86	63364

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.95	100.00


30
25
20
15
10
5
0
Percent
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=32.3 Level=Bottom

Moments			
N	263	**Sum Weights**	263
Mean	7.41593156	**Sum Observations**	1950.39
Std Deviation	0.4781738	**Variance**	0.22865018
Skewness	0.13105467	**Kurtosis**	0.39067219
Uncorrected SS	14523.8651	**Corrected SS**	59.9063468
Coeff Variation	6.44792622	**Std Error Mean**	0.02948546

Basic Statistical Measures			
Location		**Variability**	
Mean	7.415932	**Std Deviation**	0.47817
Median	7.420000	**Variance**	0.22865
Mode	7.800000	**Range**	2.96000
		Interquartile Range	0.63000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	251.5115	**Pr > |t|**	<.0001
Sign	**M**	131.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17358	**Pr >= |S|**	<.0001

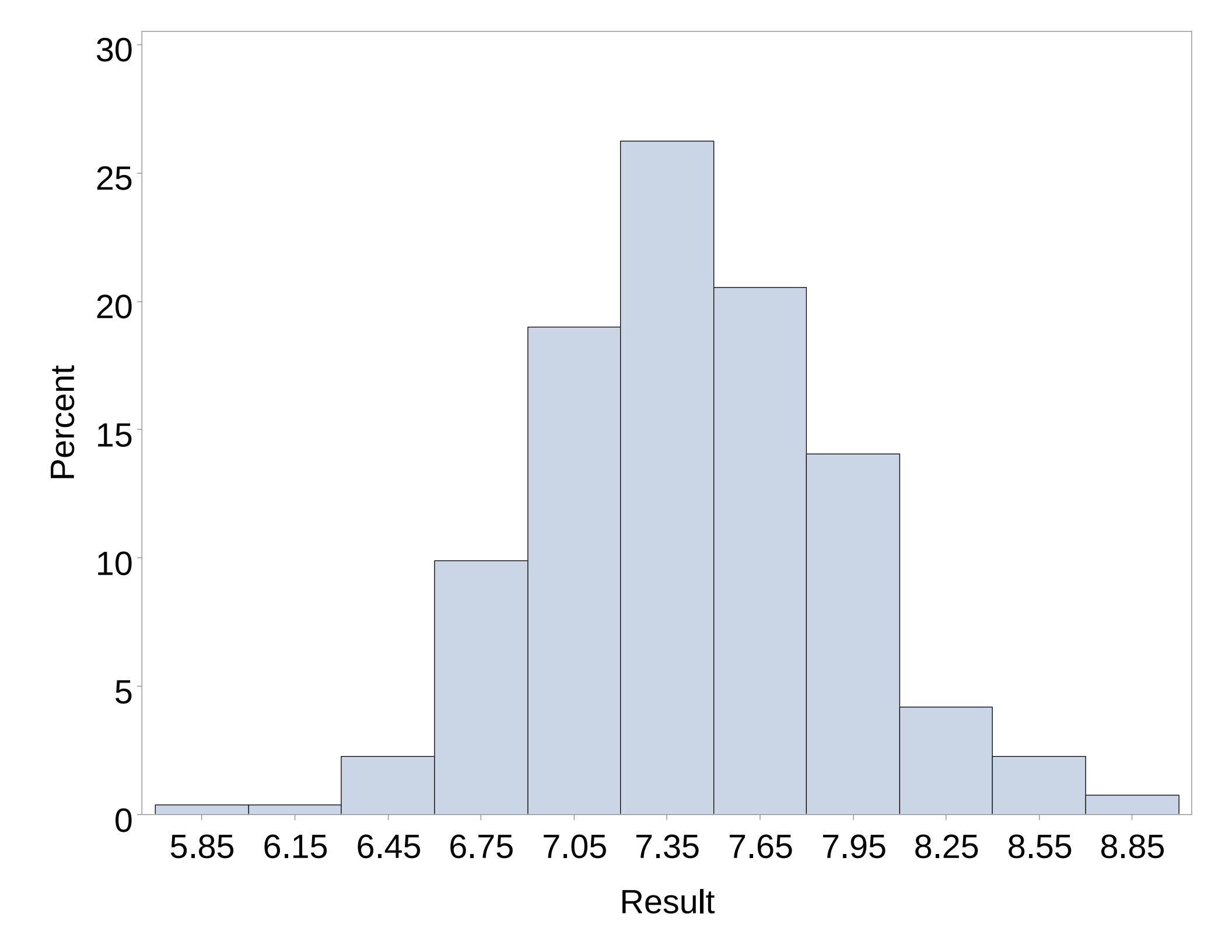
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.90
99%	8.65
95%	8.15
90%	7.97
75% Q3	7.72
50% Median	7.42
25% Q1	7.09
10%	6.82
5%	6.66
1%	6.37
0% Min	5.94

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom pH (std. units) River Kilometer=32.3 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.94	63734	8.60	63789
6.09	63733	8.62	63748
6.37	63862	8.65	63656
6.38	63755	8.73	63793
6.44	63863	8.90	63882

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.13	100.00


30
25
20
15
10
5
0
Percent
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=-2.4 Level=Surface

Moments			
N	307	**Sum Weights**	307
Mean	7.75843648	**Sum Observations**	2381.84
Std Deviation	0.3281601	**Variance**	0.10768905
Skewness	-0.8098167	**Kurtosis**	3.36346166
Uncorrected SS	18512.3072	**Corrected SS**	32.9528495
Coeff Variation	4.22971948	**Std Error Mean**	0.01872909

Basic Statistical Measures			
Location		**Variability**	
Mean	7.758436	**Std Deviation**	0.32816
Median	7.800000	**Variance**	0.10769
Mode	7.900000	**Range**	2.72000
		Interquartile Range	0.36000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	414.2453	**Pr > |t|**	<.0001
Sign	**M**	153.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23639	**Pr >= |S|**	<.0001

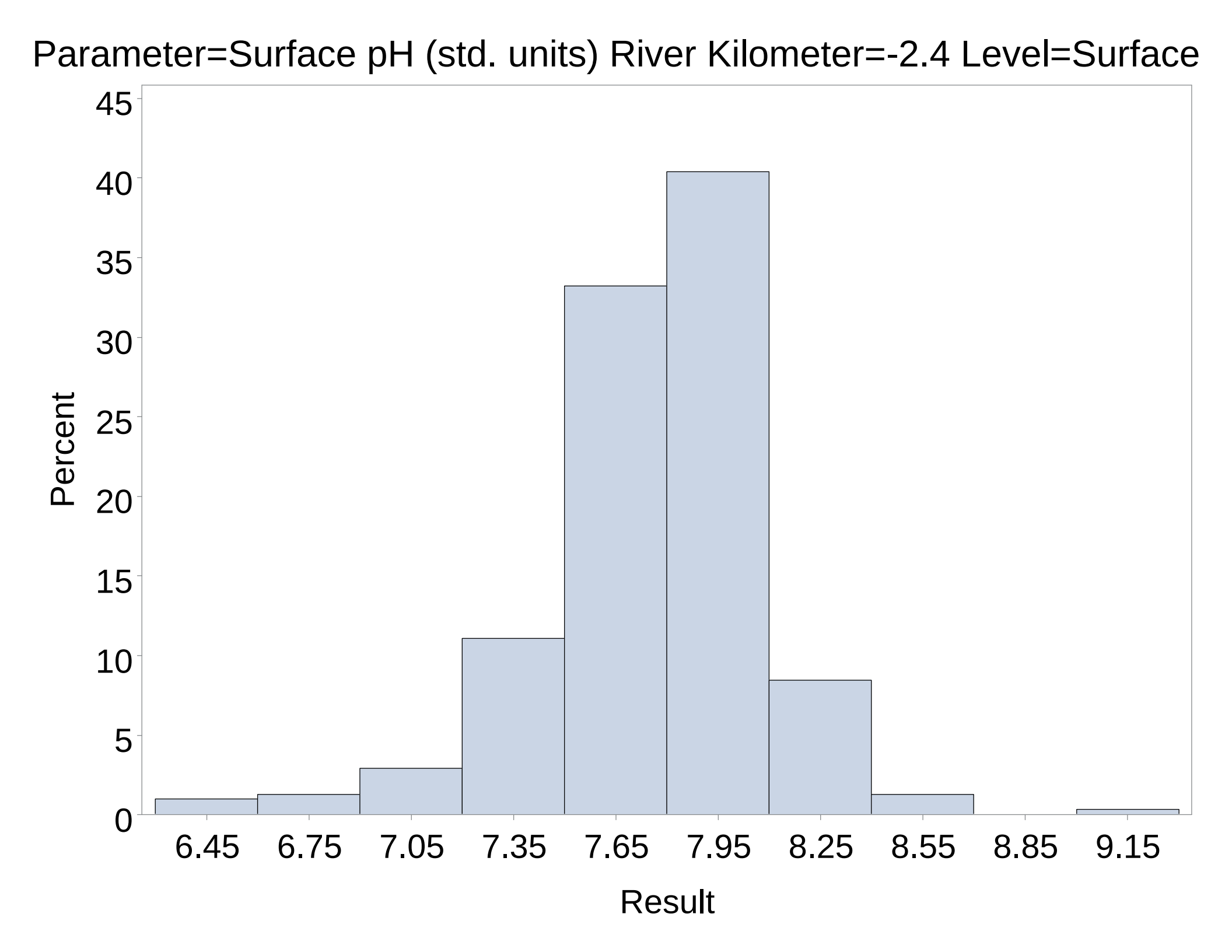
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.12
99%	8.50
95%	8.19
90%	8.10
75% Q3	7.96
50% Median	7.80
25% Q1	7.60
10%	7.39
5%	7.19
1%	6.69
0% Min	6.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.40	64023	8.45	64182
6.41	64045	8.50	63940
6.57	64066	8.58	64097
6.69	64147	8.64	64208
6.70	63941	9.12	64100

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.97	100.00


Parameter=Surface pH (std. units) River Kilometer=-2.4 Level=Surface
Percent
0
5
10
15
20
25
30
35
40
45
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=6.6 Level=Surface

Moments			
N	311	**Sum Weights**	311
Mean	7.68951768	**Sum Observations**	2391.44
Std Deviation	0.37157046	**Variance**	0.13806461
Skewness	-0.6141658	**Kurtosis**	1.66535711
Uncorrected SS	18431.8202	**Corrected SS**	42.8000277
Coeff Variation	4.83216859	**Std Error Mean**	0.02106983

Basic Statistical Measures			
Location		**Variability**	
Mean	7.689518	**Std Deviation**	0.37157
Median	7.770000	**Variance**	0.13806
Mode	7.800000	**Range**	2.84000
		Interquartile Range	0.41000

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**	364.954	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

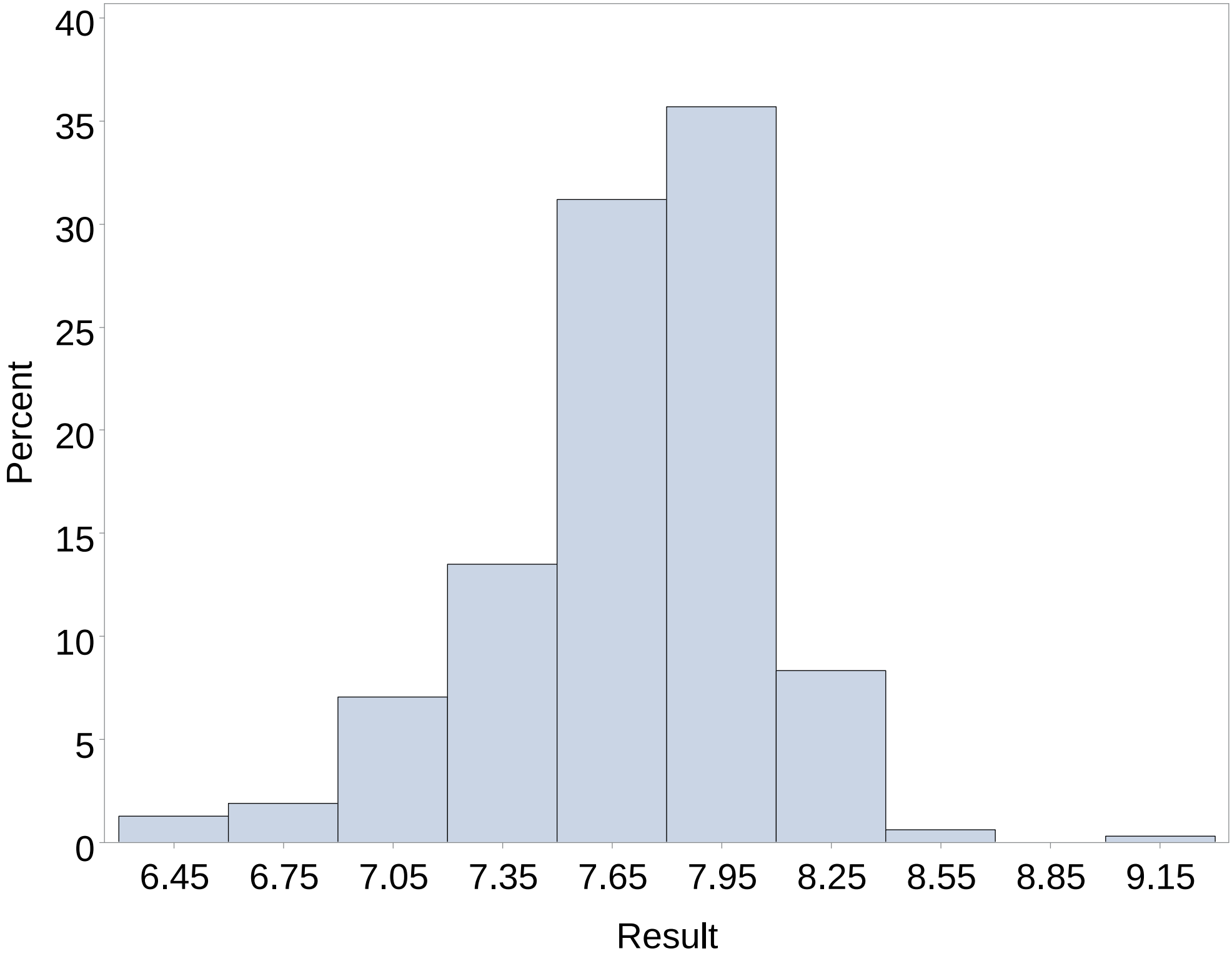
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.25
99%	8.38
95%	8.18
90%	8.08
75% Q3	7.91
50% Median	7.77
25% Q1	7.50
10%	7.16
5%	6.96
1%	6.57
0% Min	6.41

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.41	64251	8.36	64519
6.51	64358	8.38	64472
6.51	64242	8.40	64495
6.57	64357	8.49	64410
6.65	64245	9.25	64413

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.96	100.00


40
35
30
25
20
15
10
5
0
Percent
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=8.4 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.65649057	**Sum Observations**	2028.97
Std Deviation	0.39903879	**Variance**	0.15923196
Skewness	-0.1349285	**Kurtosis**	1.56987105
Uncorrected SS	15576.8269	**Corrected SS**	42.0372362
Coeff Variation	5.21177145	**Std Error Mean**	0.02451276

Basic Statistical Measures			
Location		**Variability**	
Mean	7.656491	**Std Deviation**	0.39904
Median	7.710000	**Variance**	0.15923
Mode	7.800000	**Range**	2.77000
		Interquartile Range	0.45000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	312.3472	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

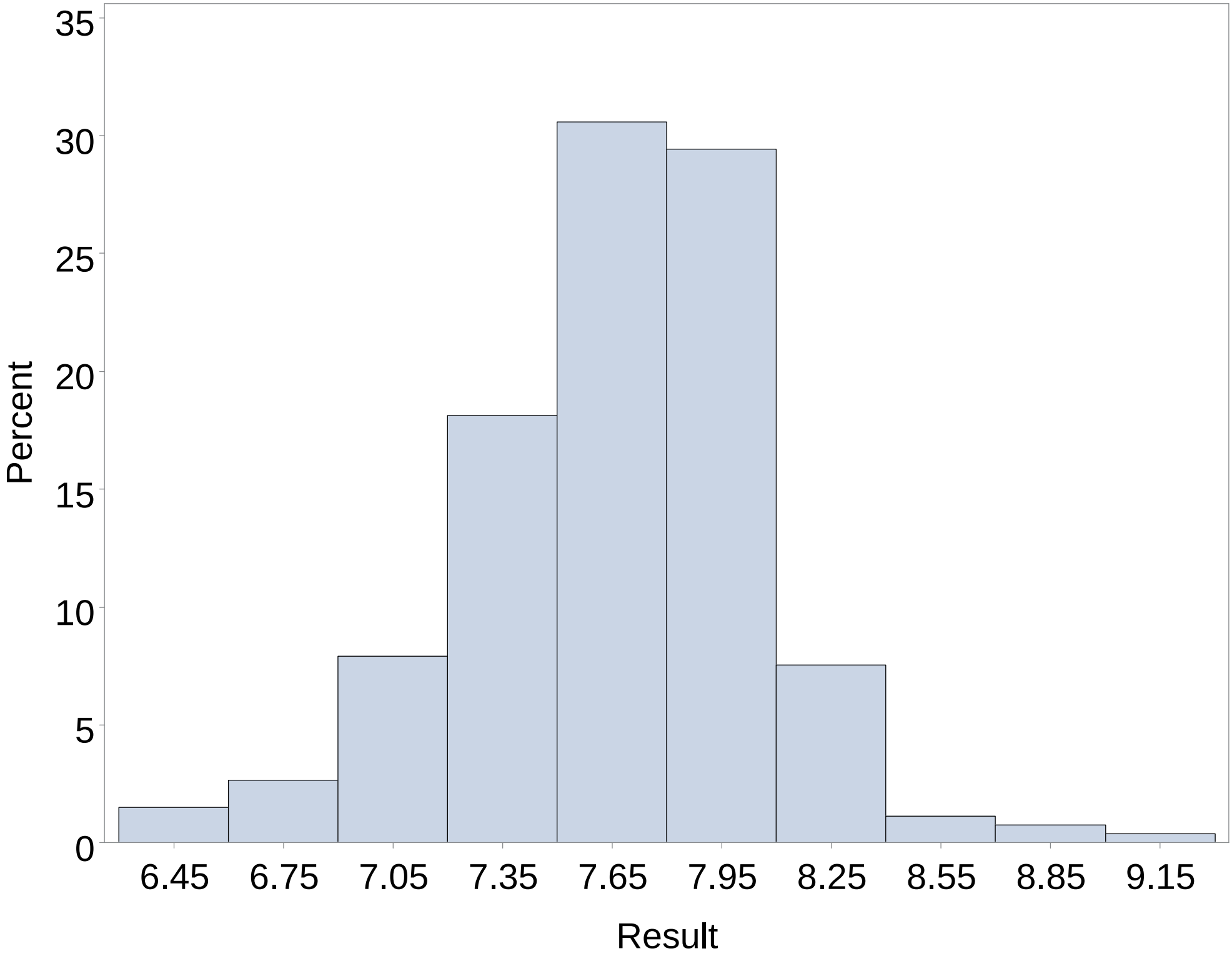
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.22
99%	8.96
95%	8.20
90%	8.09
75% Q3	7.88
50% Median	7.71
25% Q1	7.43
10%	7.11
5%	6.94
1%	6.51
0% Min	6.45

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=8.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.45	64546	8.44	64553
6.50	64754	8.47	64678
6.51	64625	8.96	64685
6.53	64542	8.98	64740
6.69	64626	9.22	64681

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=10.5 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.61290566	**Sum Observations**	2017.42
Std Deviation	0.40906426	**Variance**	0.16733357
Skewness	0.03530134	**Kurtosis**	1.44745099
Uncorrected SS	15402.6042	**Corrected SS**	44.1760626
Coeff Variation	5.37330003	**Std Error Mean**	0.02512862

Basic Statistical Measures			
Location		**Variability**	
Mean	7.612906	**Std Deviation**	0.40906
Median	7.630000	**Variance**	0.16733
Mode	7.510000	**Range**	2.80000
		Interquartile Range	0.44000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	302.9576	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

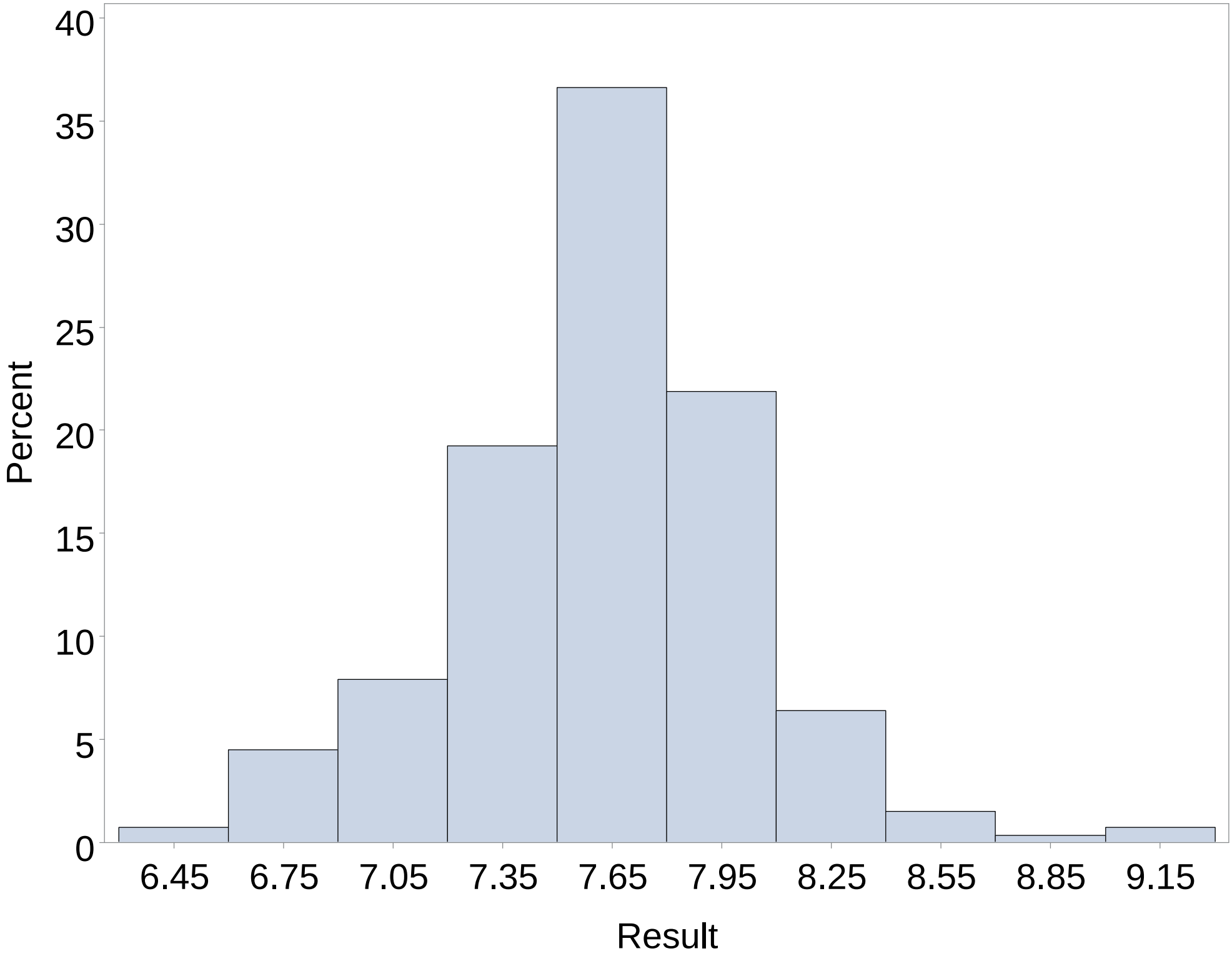
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.18
99%	8.93
95%	8.17
90%	8.09
75% Q3	7.84
50% Median	7.63
25% Q1	7.40
10%	7.09
5%	6.88
1%	6.60
0% Min	6.38

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=10.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.38	64893	8.54	64821
6.44	64894	8.67	64995
6.60	64814	8.93	64953
6.69	64915	9.02	64949
6.70	64831	9.18	65008

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


40
35
30
25
20
15
10
5
0
Percent
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=12.7 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.54320755	**Sum Observations**	1998.95
Std Deviation	0.39535165	**Variance**	0.15630293
Skewness	0.00528995	**Kurtosis**	1.59357525
Uncorrected SS	15119.7587	**Corrected SS**	41.2639736
Coeff Variation	5.24116102	**Std Error Mean**	0.02428626

Basic Statistical Measures			
Location		**Variability**	
Mean	7.543208	**Std Deviation**	0.39535
Median	7.570000	**Variance**	0.15630
Mode	7.500000	**Range**	2.81000
		Interquartile Range	0.44000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	310.5957	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

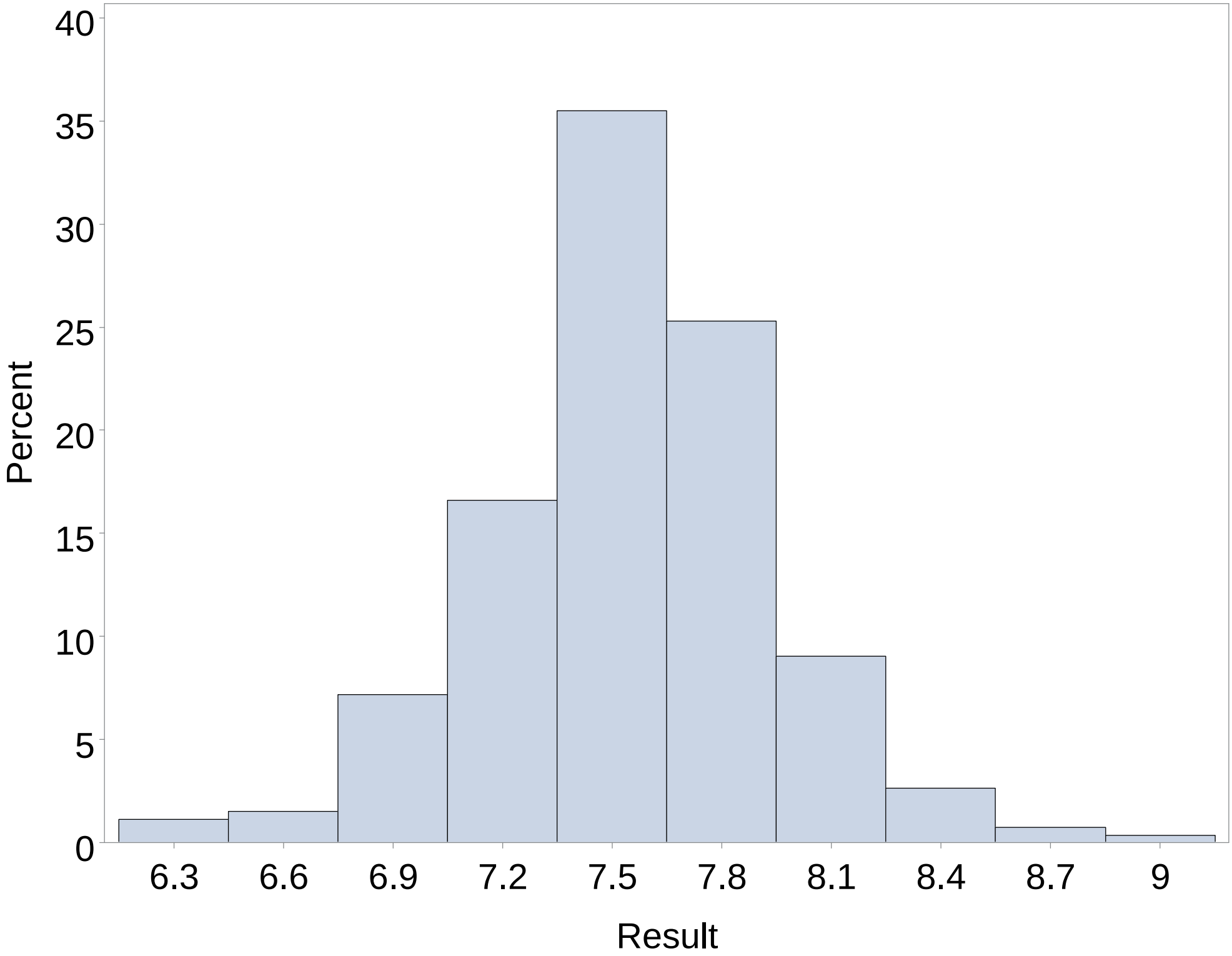
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.09
99%	8.79
95%	8.15
90%	7.99
75% Q3	7.76
50% Median	7.57
25% Q1	7.32
10%	7.05
5%	6.89
1%	6.43
0% Min	6.28

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=12.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.28	65161	8.40	65214
6.32	65266	8.48	65144
6.43	65082	8.79	65089
6.45	65162	8.81	65276
6.61	65183	9.09	65217

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


Percent
40
35
30
25
20
15
10
5
0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=12.8 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.51339623	**Sum Observations**	1991.05
Std Deviation	0.41676579	**Variance**	0.17369372
Skewness	0.04958365	**Kurtosis**	0.96407892
Uncorrected SS	15005.4027	**Corrected SS**	45.8551434
Coeff Variation	5.54696943	**Std Error Mean**	0.02560172

Basic Statistical Measures			
Location		**Variability**	
Mean	7.513396	**Std Deviation**	0.41677
Median	7.520000	**Variance**	0.17369
Mode	7.900000	**Range**	2.77000
		Interquartile Range	0.48000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	293.4723	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

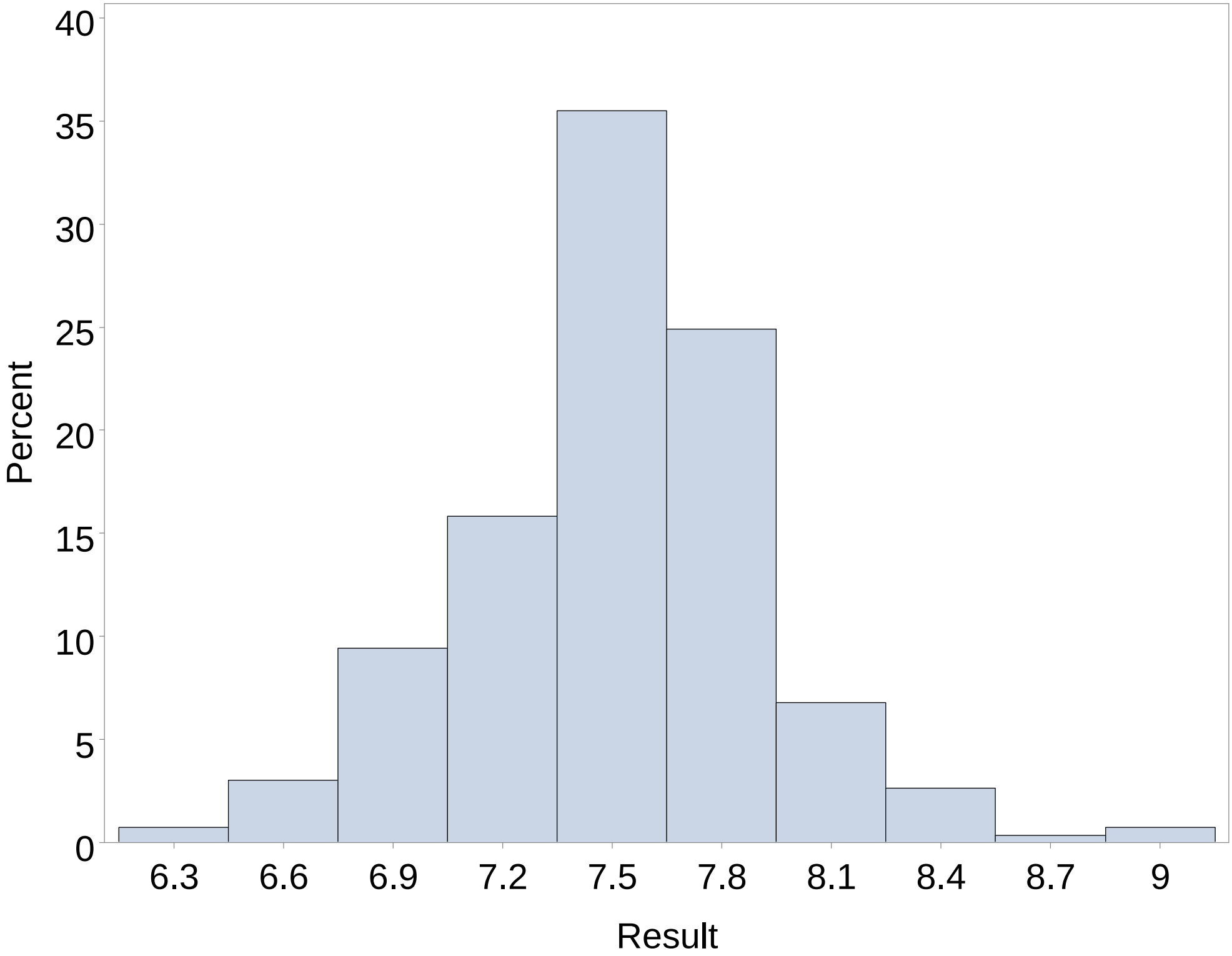
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.96
99%	8.81
95%	8.15
90%	8.00
75% Q3	7.75
50% Median	7.52
25% Q1	7.27
10%	6.93
5%	6.80
1%	6.52
0% Min	6.19

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=12.8 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.19	65430	8.48	65489
6.41	65429	8.50	65591
6.52	65451	8.81	65357
6.61	65534	8.88	65544
6.62	65474	8.96	65485

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


40
35
30
25
20
15
10
5
0
Percent
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=15.5 Level=Surface

Moments			
N	312	**Sum Weights**	312
Mean	7.46994658	**Sum Observations**	2330.62333
Std Deviation	0.4242113	**Variance**	0.17995523
Skewness	0.05361194	**Kurtosis**	1.58468248
Uncorrected SS	17465.5979	**Corrected SS**	55.9660769
Coeff Variation	5.67890681	**Std Error Mean**	0.02401624

Basic Statistical Measures			
Location		**Variability**	
Mean	7.469947	**Std Deviation**	0.42421
Median	7.500000	**Variance**	0.17996
Mode	7.700000	**Range**	3.13000
		Interquartile Range	0.48000

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**	311.0374	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

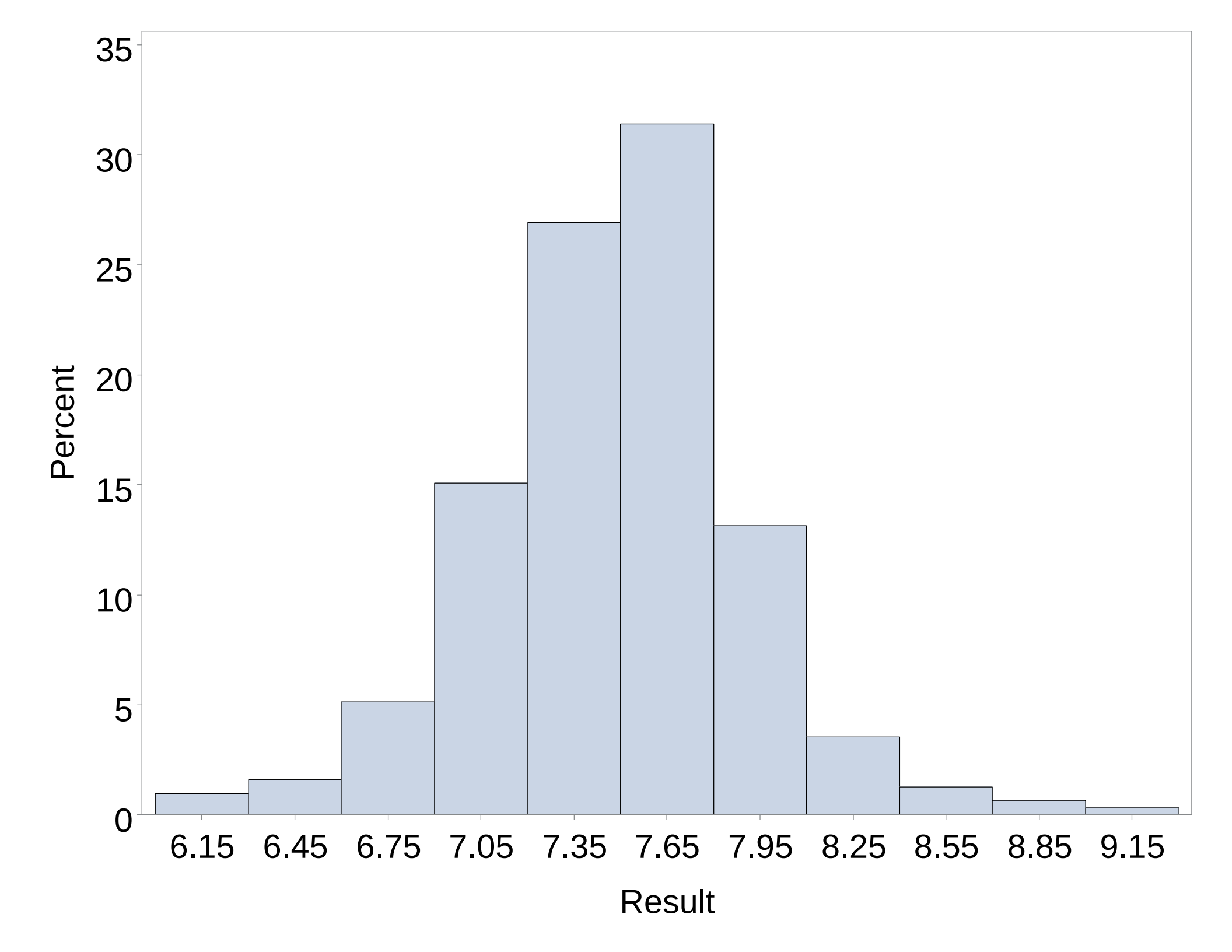
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.18000
99%	8.60000
95%	8.11000
90%	7.90000
75% Q3	7.72000
50% Median	7.50000
25% Q1	7.24000
10%	6.94000
5%	6.75333
1%	6.33000
0% Min	6.05000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.05000	65649	8.55	65859
6.21000	65745	8.60	65652
6.22000	65744	8.80	65655
6.33000	65629	8.83	65804
6.47333	65638	9.18	65800

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.95	100.00


35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=17.5 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.42222642	**Sum Observations**	1966.89
Std Deviation	0.42581822	**Variance**	0.18132116
Skewness	0.18861922	**Kurtosis**	1.53953273
Uncorrected SS	14646.5717	**Corrected SS**	47.8687864
Coeff Variation	5.73706865	**Std Error Mean**	0.02615781

Basic Statistical Measures			
Location		**Variability**	
Mean	7.422226	**Std Deviation**	0.42582
Median	7.470000	**Variance**	0.18132
Mode	7.500000	**Range**	2.86000
		Interquartile Range	0.52000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	283.7481	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

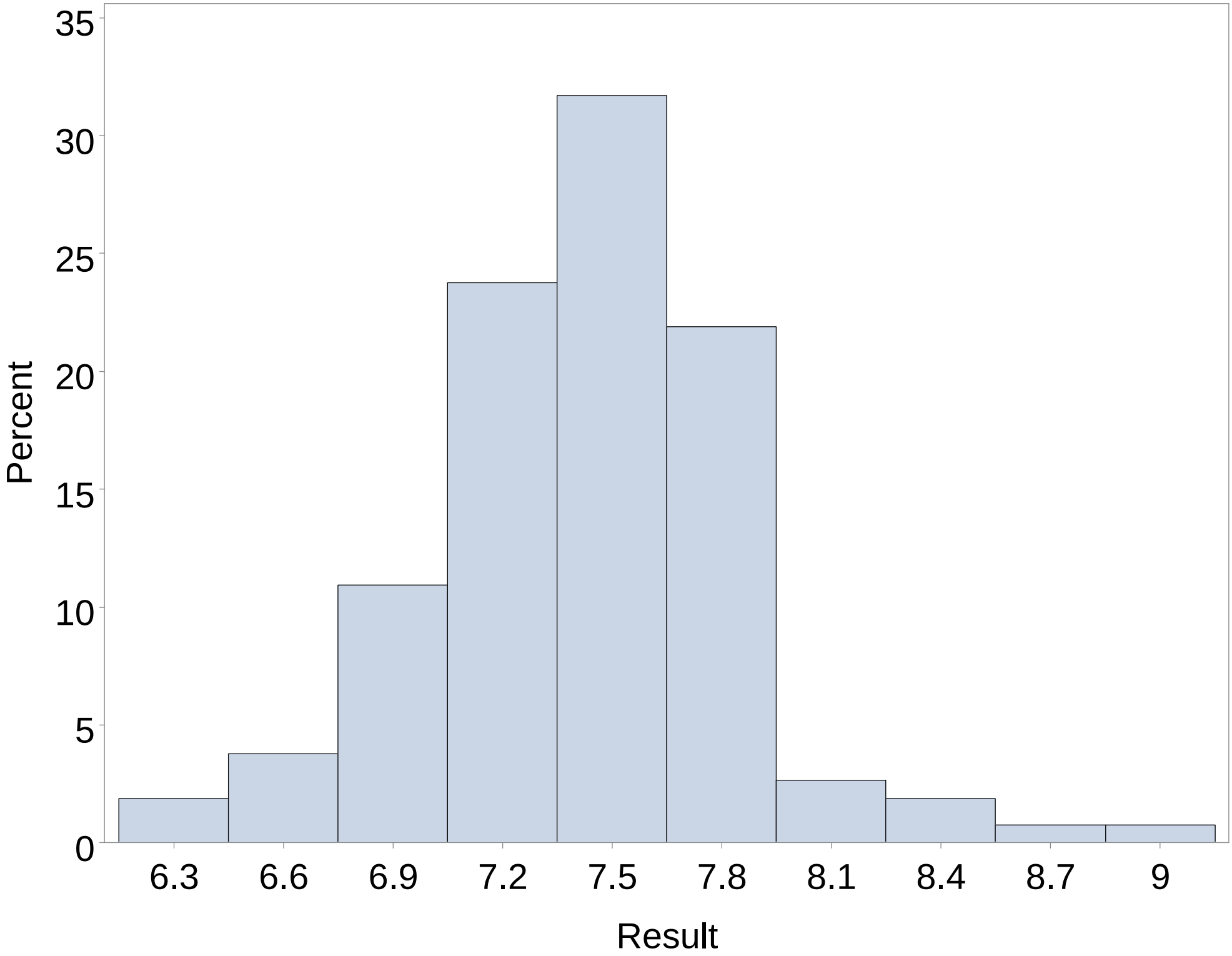
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.02
99%	8.78
95%	8.02
90%	7.87
75% Q3	7.69
50% Median	7.47
25% Q1	7.17
10%	6.90
5%	6.73
1%	6.30
0% Min	6.16

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=17.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.16	66013	8.47	66127
6.19	66012	8.60	66144
6.30	66117	8.78	66116
6.40	65933	8.91	66068
6.41	66130	9.02	66072

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=20.1 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.36150943	**Sum Observations**	1950.8
Std Deviation	0.41875897	**Variance**	0.17535908
Skewness	-0.008492	**Kurtosis**	1.63479527
Uncorrected SS	14407.1274	**Corrected SS**	46.2947962
Coeff Variation	5.68849331	**Std Error Mean**	0.02572416

Basic Statistical Measures			
Location		**Variability**	
Mean	7.361509	**Std Deviation**	0.41876
Median	7.410000	**Variance**	0.17536
Mode	7.500000	**Range**	3.12000
		Interquartile Range	0.50000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	286.171	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

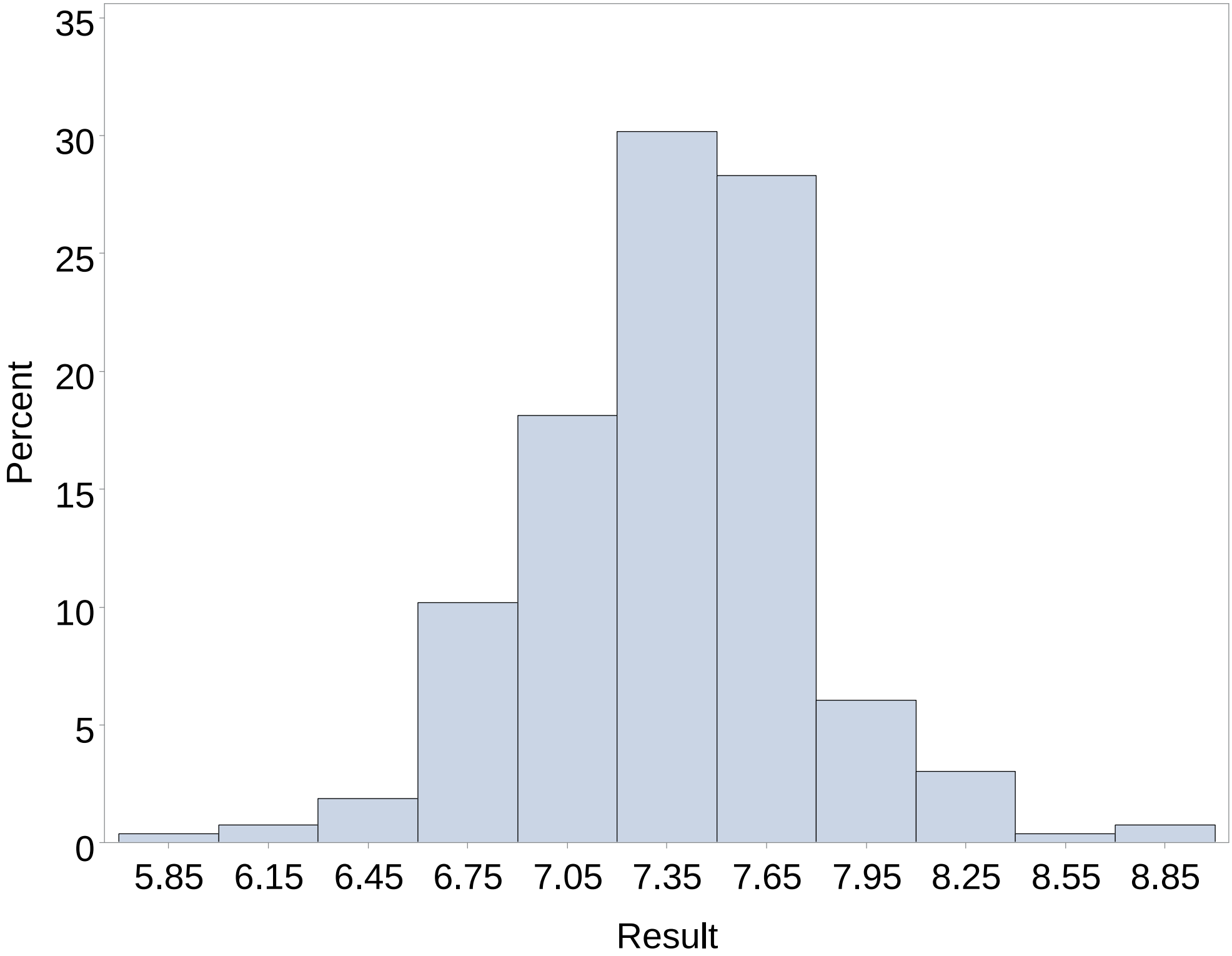
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.87
99%	8.48
95%	8.05
90%	7.80
75% Q3	7.60
50% Median	7.41
25% Q1	7.10
10%	6.85
5%	6.70
1%	6.17
0% Min	5.75

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=20.1 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.75	66291	8.32	66397
6.09	66281	8.34	66384
6.17	66280	8.48	66284
6.42	66302	8.87	66336
6.44	66201	8.87	66340

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=21.9 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.32596226	**Sum Observations**	1941.38
Std Deviation	0.43076649	**Variance**	0.18555977
Skewness	0.71040802	**Kurtosis**	2.29057093
Uncorrected SS	14271.4644	**Corrected SS**	48.9877796
Coeff Variation	5.87999879	**Std Error Mean**	0.02646178

Basic Statistical Measures			
Location		**Variability**	
Mean	7.325962	**Std Deviation**	0.43077
Median	7.310000	**Variance**	0.18556
Mode	7.500000	**Range**	2.94000
		Interquartile Range	0.41000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	276.8507	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

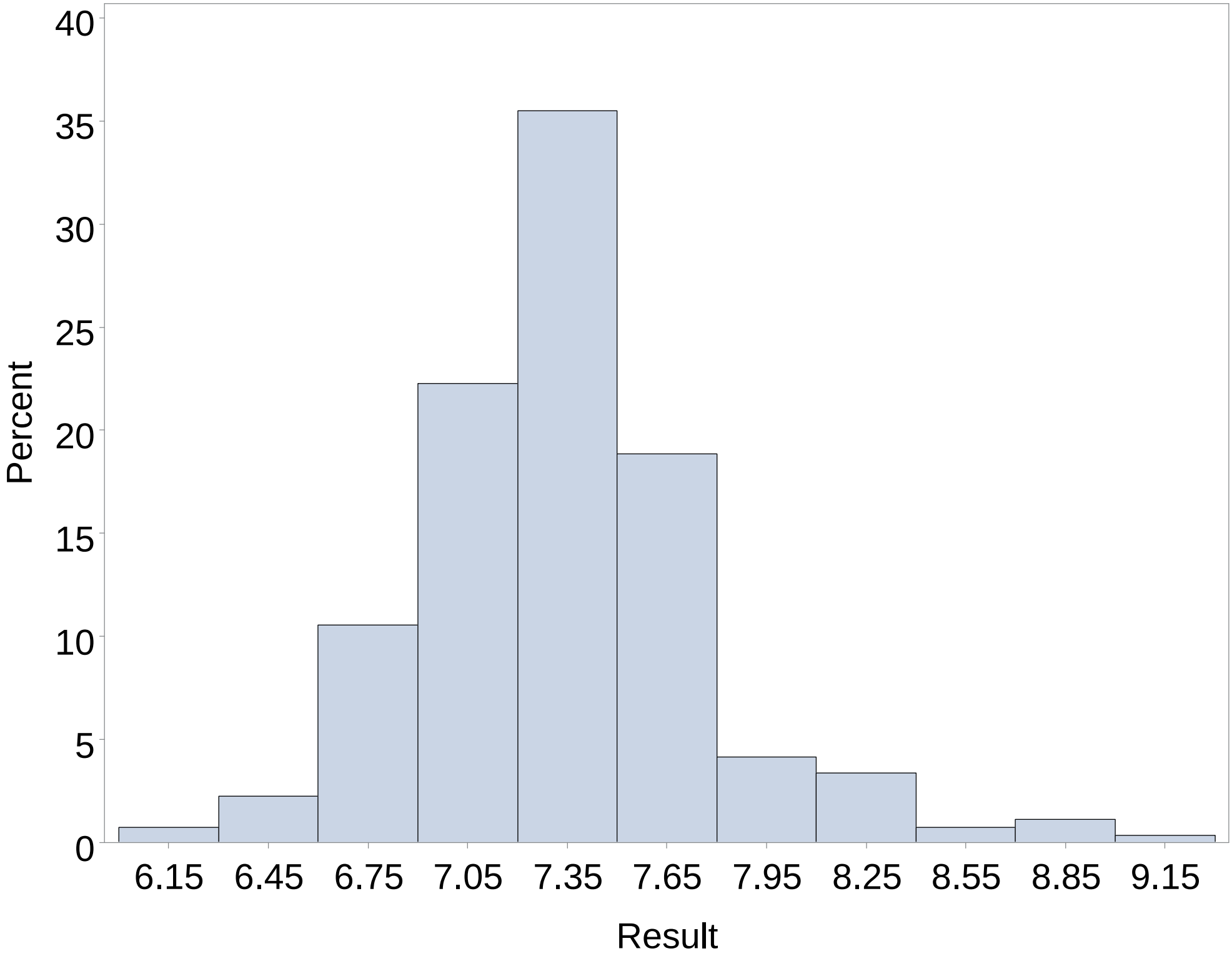
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.05
99%	8.82
95%	8.15
90%	7.76
75% Q3	7.50
50% Median	7.31
25% Q1	7.09
10%	6.84
5%	6.68
1%	6.41
0% Min	6.11

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=21.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.11	66549	8.58	66552
6.14	66548	8.77	66604
6.41	66469	8.82	66562
6.44	66570	8.93	66563
6.48	66527	9.05	66706

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


40
35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=23.6 Level=Surface

Moments			
N	311	**Sum Weights**	311
Mean	7.33173633	**Sum Observations**	2280.17
Std Deviation	0.42796541	**Variance**	0.18315439
Skewness	0.50353313	**Kurtosis**	1.91414709
Uncorrected SS	16774.3831	**Corrected SS**	56.7778624
Coeff Variation	5.83716317	**Std Error Mean**	0.02426769

Basic Statistical Measures			
Location		**Variability**	
Mean	7.331736	**Std Deviation**	0.42797
Median	7.330000	**Variance**	0.18315
Mode	7.500000	**Range**	3.11000
		Interquartile Range	0.46000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	302.1192	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

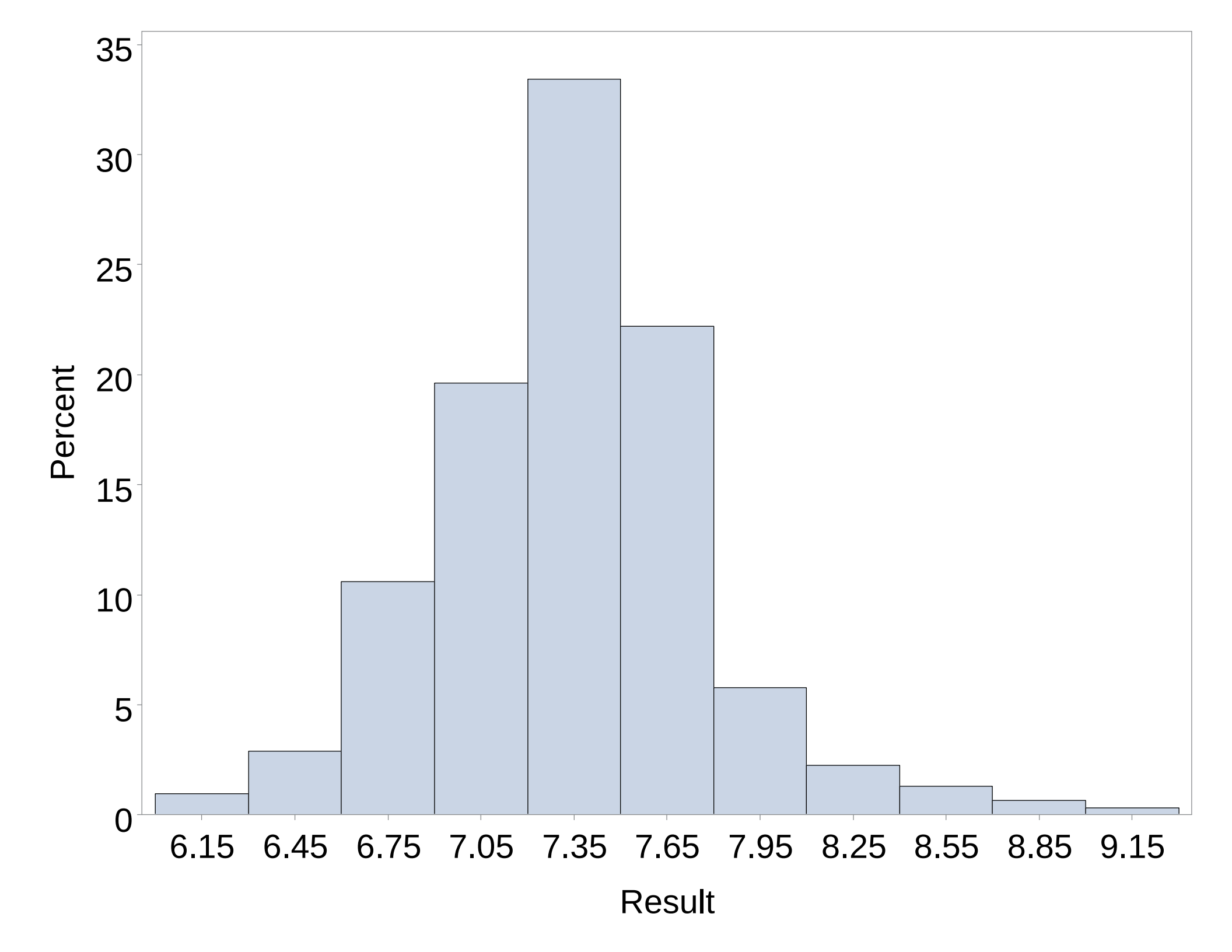
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.15
99%	8.64
95%	8.07
90%	7.80
75% Q3	7.54
50% Median	7.33
25% Q1	7.08
10%	6.82
5%	6.64
1%	6.37
0% Min	6.04

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.04	66863	8.60	66876
6.15	66862	8.64	66867
6.29	66841	8.74	66918
6.37	66748	8.82	66877
6.46	66884	9.15	67020

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.96	100.00


35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=24.7 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.37015094	**Sum Observations**	1953.09
Std Deviation	0.4557029	**Variance**	0.20766513
Skewness	0.60899787	**Kurtosis**	1.74202954
Uncorrected SS	14449.3917	**Corrected SS**	54.823594
Coeff Variation	6.18308768	**Std Error Mean**	0.02799361

Basic Statistical Measures			
Location		**Variability**	
Mean	7.370151	**Std Deviation**	0.45570
Median	7.380000	**Variance**	0.20767
Mode	7.500000	**Range**	2.97000
		Interquartile Range	0.46000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	263.2798	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

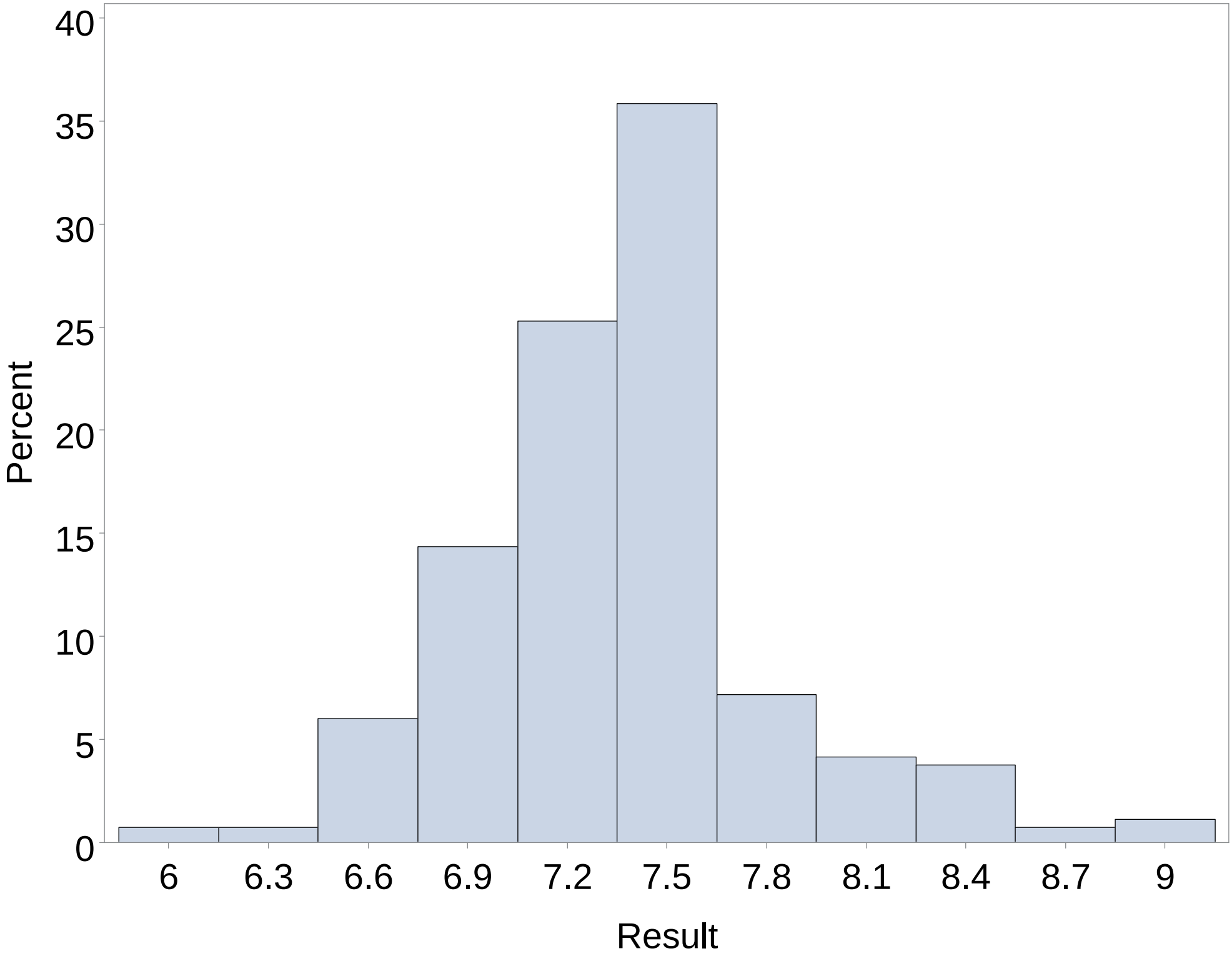
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.02
99%	8.88
95%	8.27
90%	7.91
75% Q3	7.56
50% Median	7.38
25% Q1	7.10
10%	6.84
5%	6.66
1%	6.40
0% Min	6.05

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=24.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.05	67131	8.72	67186
6.10	67130	8.77	67135
6.40	67109	8.88	67190
6.44	67051	8.93	67145
6.47	67175	9.02	67288

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


40
35
30
25
20
15
10
5
0
Percent
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=25.9 Level=Surface

Moments			
N	264	**Sum Weights**	264
Mean	7.37412879	**Sum Observations**	1946.77
Std Deviation	0.46503771	**Variance**	0.21626007
Skewness	0.660009	**Kurtosis**	1.71602106
Uncorrected SS	14412.6091	**Corrected SS**	56.8763996
Coeff Variation	6.30634108	**Std Error Mean**	0.02862109

Basic Statistical Measures			
Location		**Variability**	
Mean	7.374129	**Std Deviation**	0.46504
Median	7.350000	**Variance**	0.21626
Mode	7.200000	**Range**	2.95000
		Interquartile Range	0.52000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	257.6467	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

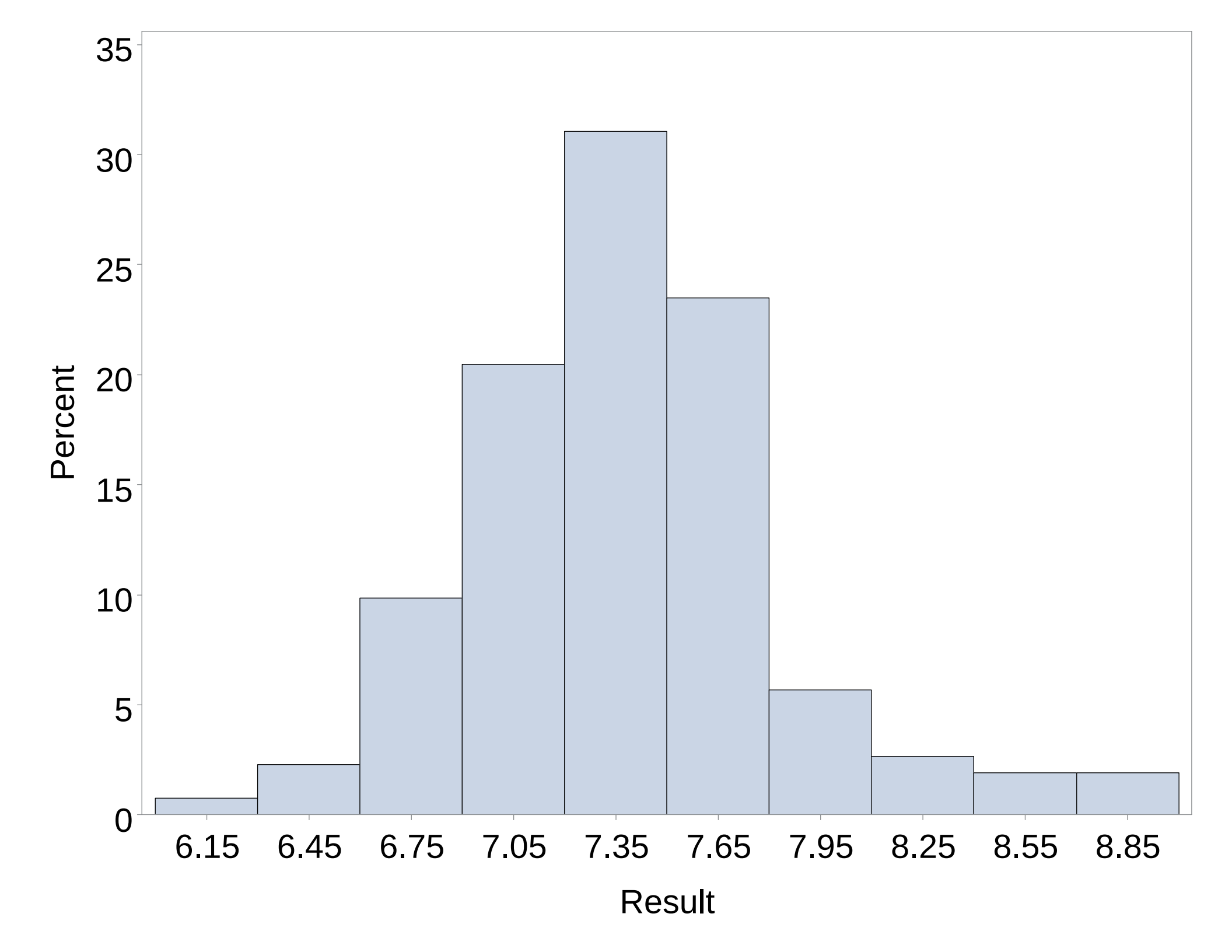
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.98
99%	8.95
95%	8.21
90%	7.85
75% Q3	7.61
50% Median	7.35
25% Q1	7.09
10%	6.85
5%	6.65
1%	6.43
0% Min	6.03

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=25.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.03	67398	8.73	67453
6.11	67397	8.92	67402
6.43	67419	8.95	67557
6.47	67442	8.98	67412
6.51	67527	8.98	67457

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


35
30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=29.5 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	7.4485283	**Sum Observations**	1973.86
Std Deviation	0.48986905	**Variance**	0.23997169
Skewness	0.20862777	**Kurtosis**	0.35706937
Uncorrected SS	14765.7046	**Corrected SS**	63.352526
Coeff Variation	6.57672272	**Std Error Mean**	0.03009242

Basic Statistical Measures			
Location		**Variability**	
Mean	7.448528	**Std Deviation**	0.48987
Median	7.450000	**Variance**	0.23997
Mode	7.700000	**Range**	2.86000
		Interquartile Range	0.59000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	247.5218	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

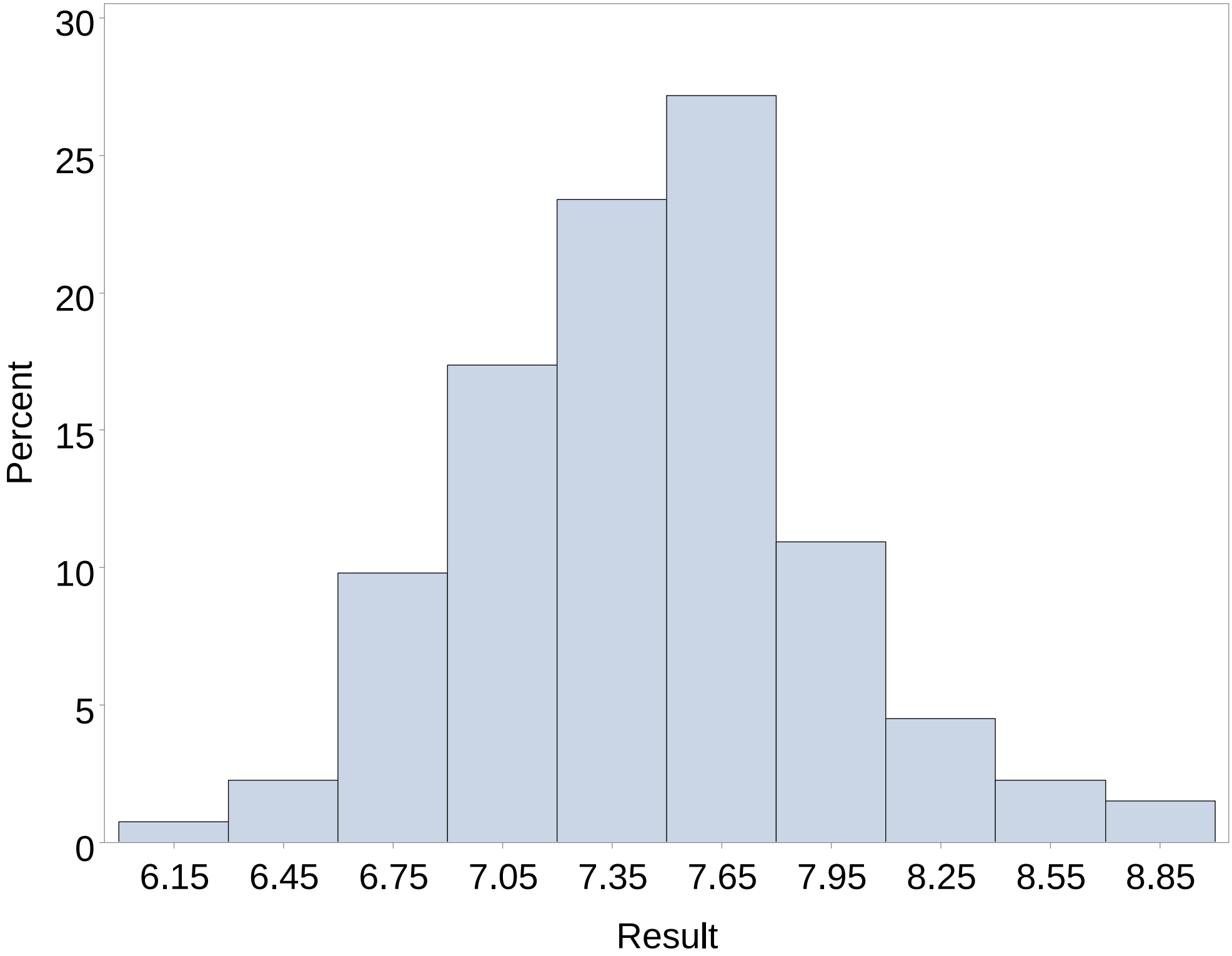
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.88
99%	8.76
95%	8.32
90%	8.04
75% Q3	7.71
50% Median	7.45
25% Q1	7.12
10%	6.82
5%	6.66
1%	6.37
0% Min	6.02

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=29.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.02	67666	8.67	67680
6.18	67665	8.71	67813
6.37	67687	8.76	67721
6.47	67710	8.78	67725
6.49	67795	8.88	67670

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.12	100.00


30
25
20
15
10
5
0
Percent
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=30.7 Level=Surface

Moments			
N	312	**Sum Weights**	312
Mean	7.45535256	**Sum Observations**	2326.07
Std Deviation	0.49735882	**Variance**	0.24736579
Skewness	0.23648992	**Kurtosis**	0.49910528
Uncorrected SS	17418.6027	**Corrected SS**	76.9307612
Coeff Variation	6.67116426	**Std Error Mean**	0.0281574

Basic Statistical Measures			
Location		**Variability**	
Mean	7.455353	**Std Deviation**	0.49736
Median	7.465000	**Variance**	0.24737
Mode	7.500000	**Range**	2.99000
		Interquartile Range	0.62500

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	264.7742	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

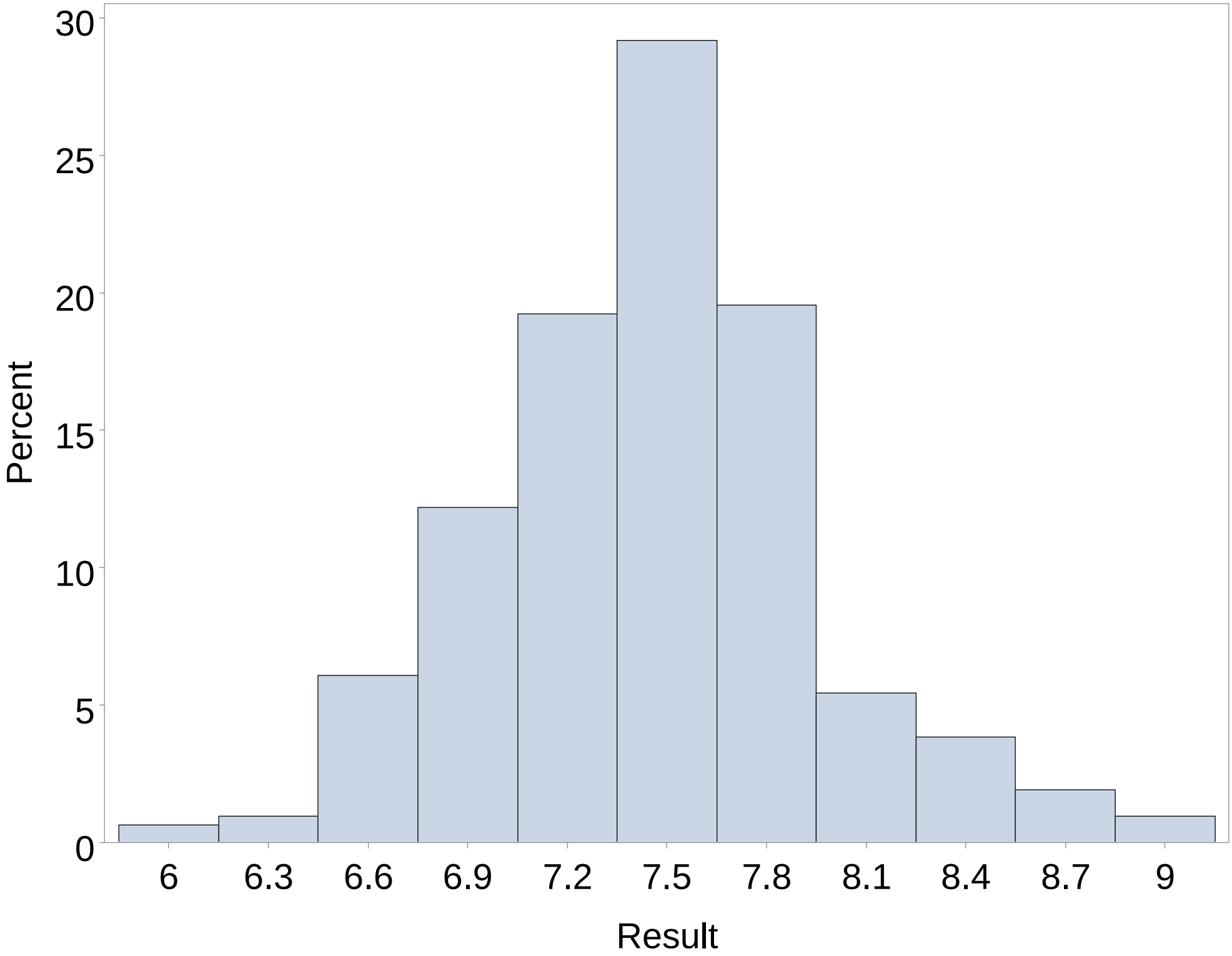
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.000
99%	8.770
95%	8.300
90%	8.080
75% Q3	7.745
50% Median	7.465
25% Q1	7.120
10%	6.820
5%	6.640
1%	6.400
0% Min	6.010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.01	67981	8.75	68129
6.09	67980	8.77	68036
6.39	67865	8.86	68128
6.40	68002	8.95	67877
6.43	68109	9.00	67985

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	0.95	100.00


30
25
20
15
10
5
0
Percent
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=32.3 Level=Surface

Moments			
N	262	**Sum Weights**	262
Mean	7.51133588	**Sum Observations**	1967.97
Std Deviation	0.50723438	**Variance**	0.25728671
Skewness	0.18867973	**Kurtosis**	0.38582878
Uncorrected SS	14849.2355	**Corrected SS**	67.1518324
Coeff Variation	6.75291834	**Std Error Mean**	0.03133704

Basic Statistical Measures			
Location		**Variability**	
Mean	7.511336	**Std Deviation**	0.50723
Median	7.500000	**Variance**	0.25729
Mode	7.800000	**Range**	3.09000
		Interquartile Range	0.67000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	239.6951	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

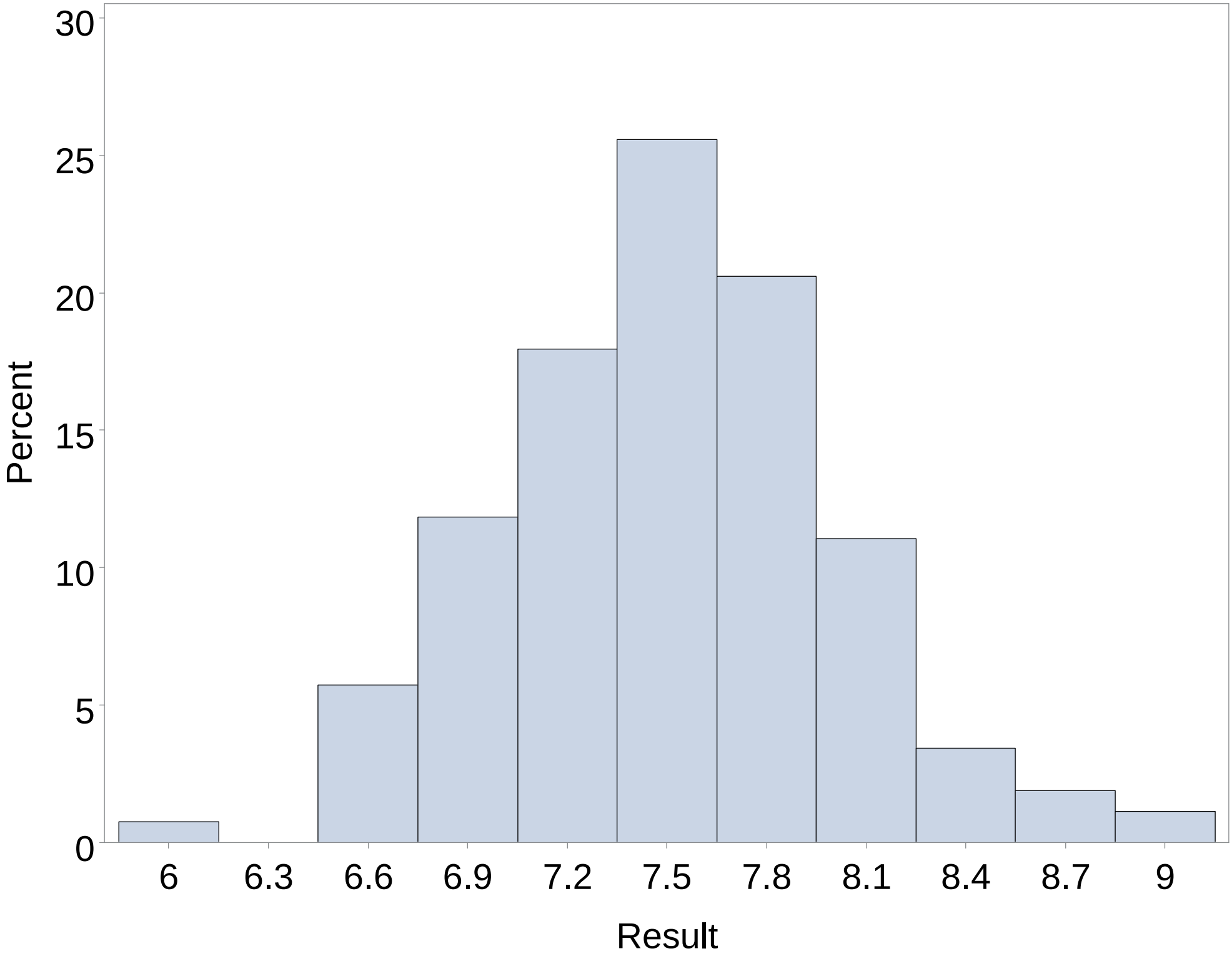
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.06
99%	8.87
95%	8.42
90%	8.08
75% Q3	7.83
50% Median	7.50
25% Q1	7.16
10%	6.89
5%	6.71
1%	6.45
0% Min	5.97

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface pH (std. units) River Kilometer=32.3 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.97	68246	8.79	68393
6.14	68245	8.82	68305
6.45	68290	8.87	68169
6.47	68267	8.90	68394
6.56	68350	9.06	68250

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	3	1.13	100.00


30
25
20
15
10
5
0
Percent
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=-2.4 Level=Bottom

Moments			
N	310	**Sum Weights**	310
Mean	28.6468096	**Sum Observations**	8880.51099
Std Deviation	6.13596251	**Variance**	37.6500359
Skewness	-0.3299997	**Kurtosis**	0.76085242
Uncorrected SS	266032.169	**Corrected SS**	11633.8611
Coeff Variation	21.4193573	**Std Error Mean**	0.34849925

Basic Statistical Measures			
Location		**Variability**	
Mean	28.64681	**Std Deviation**	6.13596
Median	28.87068	**Variance**	37.65004
Mode	29.41587	**Range**	41.79000
		Interquartile Range	7.74000

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

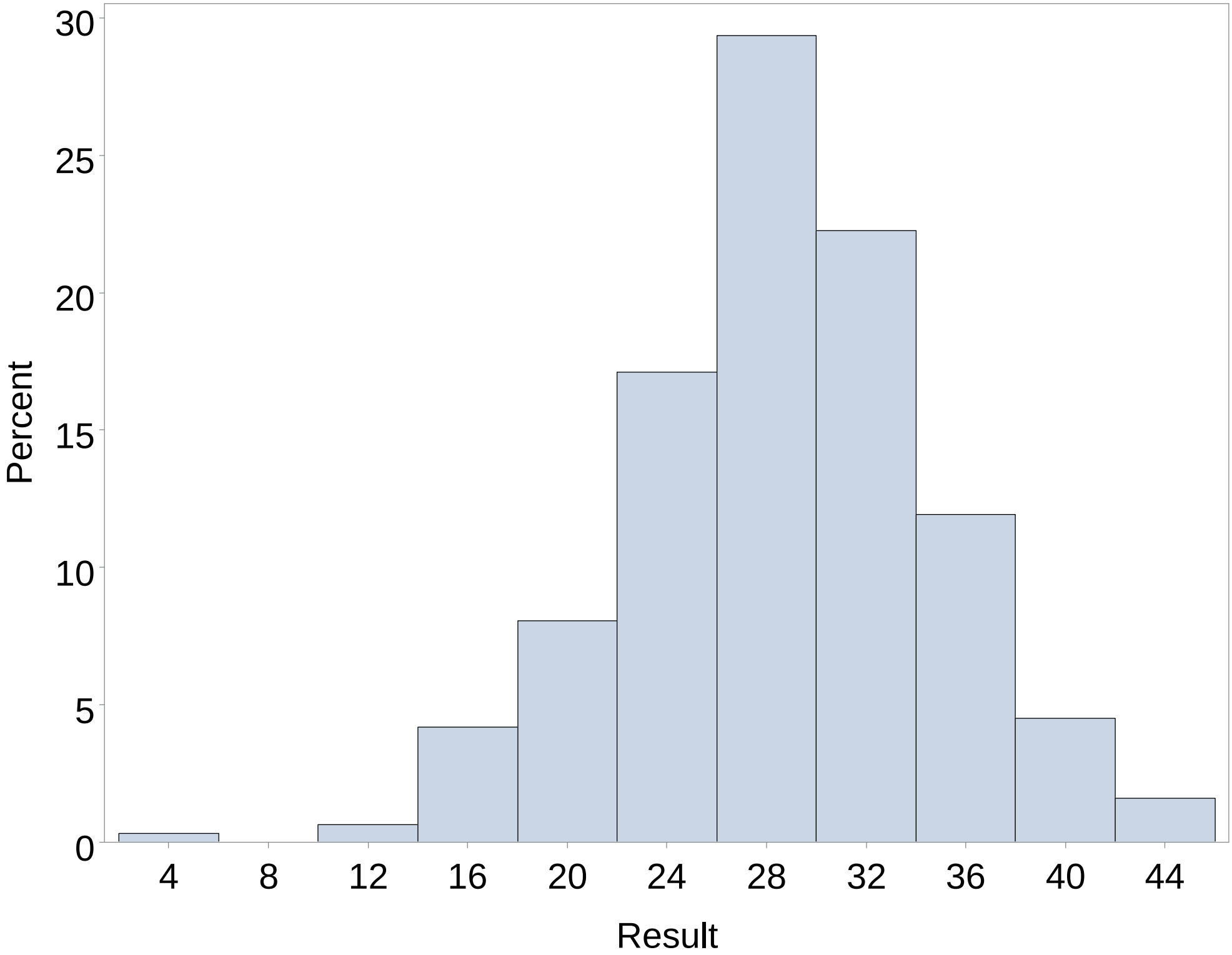
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	82.20049	**Pr > |t|**	<.0001
Sign	**M**	155	**Pr >= |M|**	<.0001
Signed Rank	**S**	24102.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	44.7500
99%	42.9700
95%	38.2400
90%	36.3400
75% Q3	32.6300
50% Median	28.8707
25% Q1	24.8900
10%	20.6600
5%	17.9927
1%	14.2300
0% Min	2.9600

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.9600	68654	42.79	68526
10.9825	68450	42.97	68646
11.9510	68451	43.47	68657
14.2300	68519	44.55	68647
14.9770	68453	44.75	68576


30
25
20
15
10
5
0
Percent
4
8
12
16
20
24
28
32
36
40
44
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=6.6 Level=Bottom

Moments			
N	314	**Sum Weights**	314
Mean	24.6139727	**Sum Observations**	7728.78743
Std Deviation	6.76283057	**Variance**	45.7358773
Skewness	-0.8179504	**Kurtosis**	2.12393795
Uncorrected SS	204551.492	**Corrected SS**	14315.3296
Coeff Variation	27.4755752	**Std Error Mean**	0.38164861

Basic Statistical Measures			
Location		**Variability**	
Mean	24.61397	**Std Deviation**	6.76283
Median	25.35219	**Variance**	45.73588
Mode	0.00000	**Range**	42.59000
		Interquartile Range	7.83335

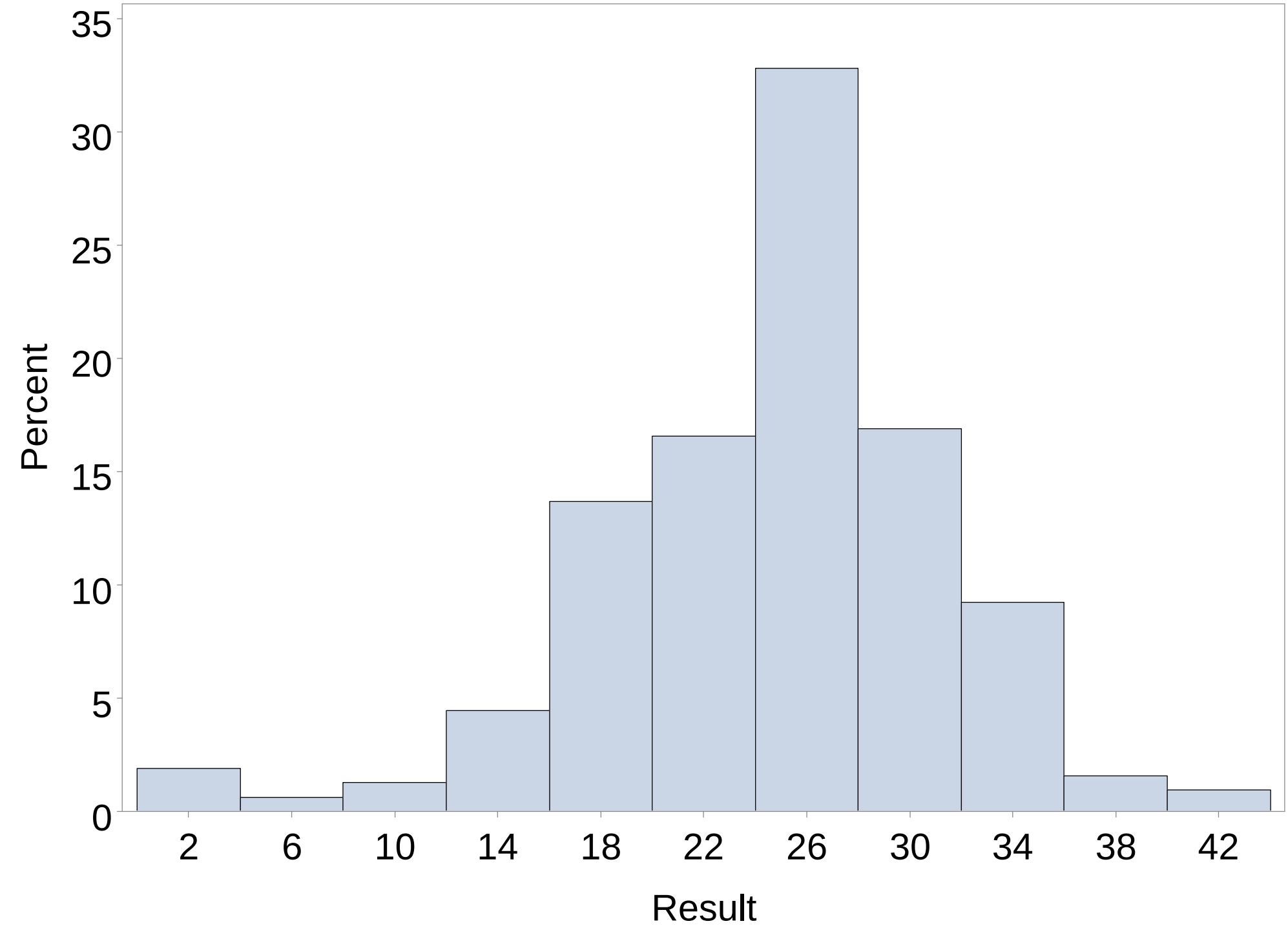
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	64.49381	**Pr > |t|**	<.0001
Sign	**M**	154.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23947.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42.5900
99%	39.4300
95%	34.3500
90%	32.2900
75% Q3	28.7000
50% Median	25.3522
25% Q1	20.8667
10%	17.1100
5%	13.1338
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	68763	39.30	68839
0	68761	39.43	68971
0	68760	40.35	68960
0	68757	40.46	68961
0	68756	42.59	68889


Parameter=Bottom Salinity (psu) River Kilometer=6.6 Level=Bottom
Percent
0
5
10
15
20
25
30
35
2
6
10
14
18
22
26
30
34
38
42
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=8.4 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	21.9501108	**Sum Observations**	5904.57982
Std Deviation	7.86383424	**Variance**	61.8398889
Skewness	-0.7444928	**Kurtosis**	0.8180254
Uncorrected SS	146179.272	**Corrected SS**	16573.0902
Coeff Variation	35.8259432	**Std Error Mean**	0.47946644

Basic Statistical Measures			
Location		**Variability**	
Mean	21.95011	**Std Deviation**	7.86383
Median	23.19000	**Variance**	61.83989
Mode	0.00000	**Range**	40.00000
		Interquartile Range	9.17048

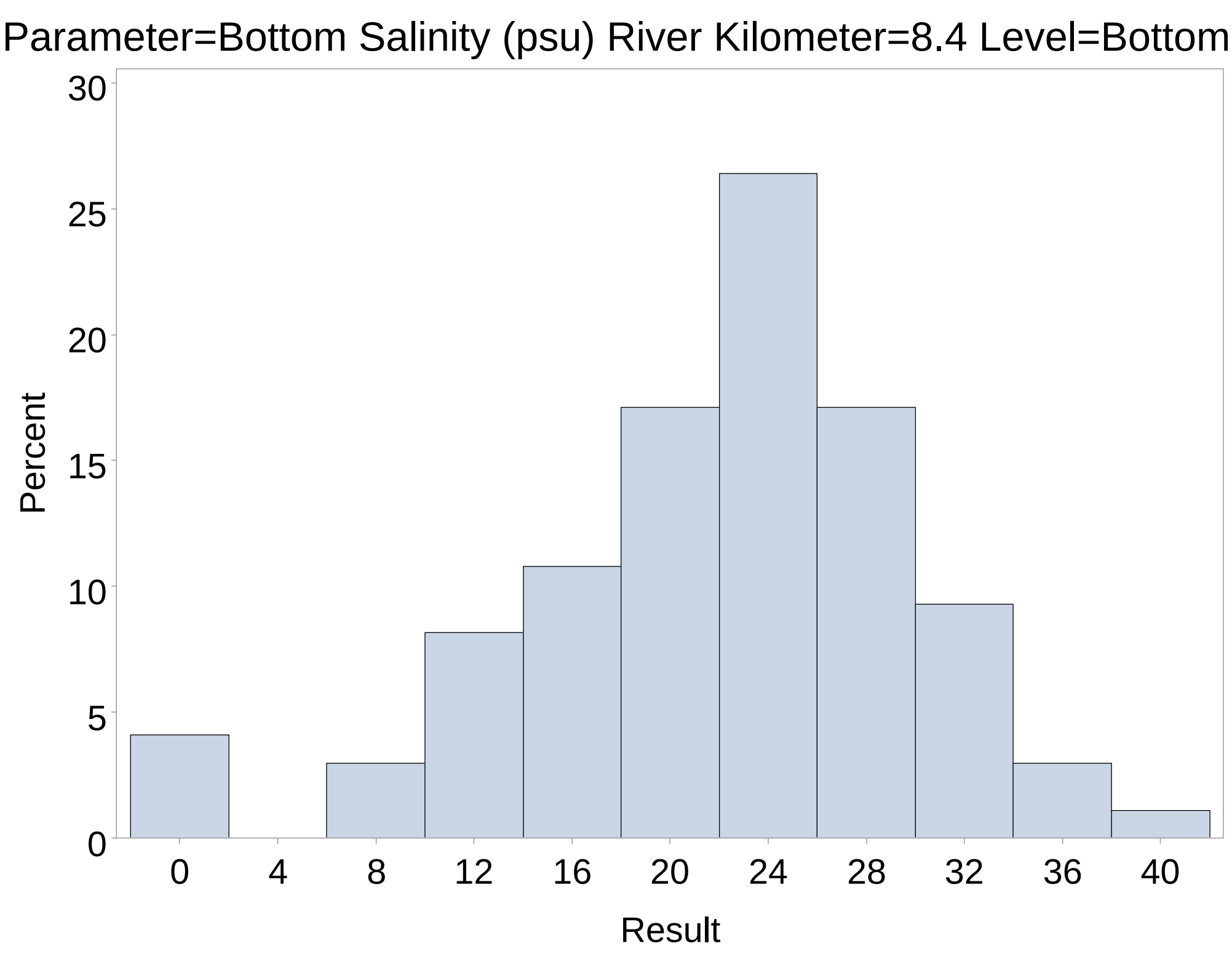
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.78029	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40.00000
99%	39.01000
95%	33.16000
90%	30.83000
75% Q3	26.76000
50% Median	23.19000
25% Q1	17.58952
10%	12.50000
5%	7.95938
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=8.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.00	69064	36.13	69239
0.00	69058	37.20	69240
0.00	69057	39.01	69228
0.00	69055	39.21	69229
0.11	69100	40.00	69157


Parameter=Bottom Salinity (psu) River Kilometer=8.4 Level=Bottom
Percent
30
25
20
15
10
5
0
0
4
8
12
16
20
24
28
32
36
40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=10.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	17.8933619	**Sum Observations**	4813.31436
Std Deviation	8.39885045	**Variance**	70.5406888
Skewness	-0.3921729	**Kurtosis**	-0.1865253
Uncorrected SS	105031.281	**Corrected SS**	18904.9046
Coeff Variation	46.9383589	**Std Error Mean**	0.51208695

Basic Statistical Measures			
Location		**Variability**	
Mean	17.89336	**Std Deviation**	8.39885
Median	18.78000	**Variance**	70.54069
Mode	0.00000	**Range**	36.68000
		Interquartile Range	10.11541

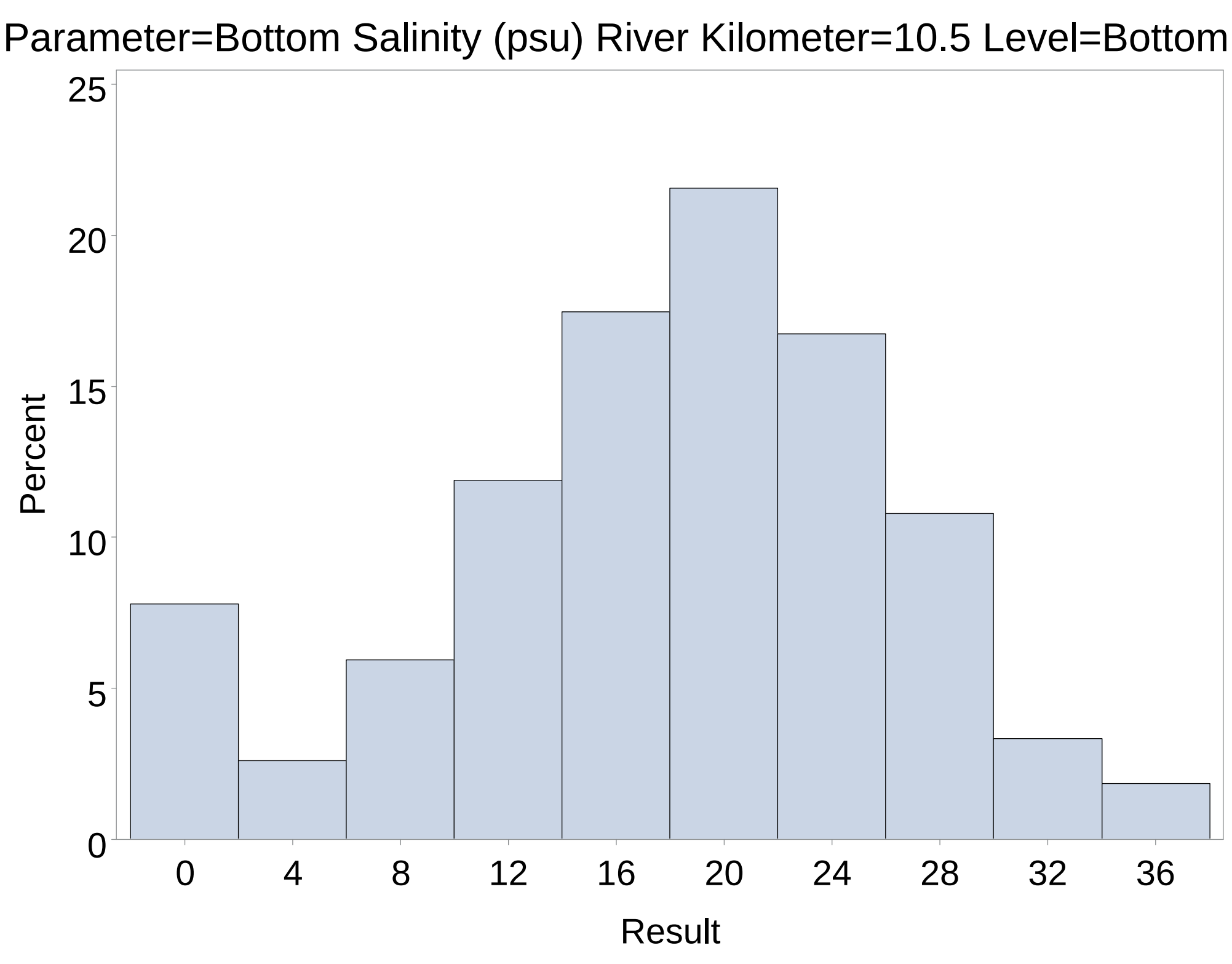
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.94204	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.6800
99%	35.5300
95%	30.1500
90%	28.1800
75% Q3	23.3800
50% Median	18.7800
25% Q1	13.2646
10%	4.8100
5%	0.2200
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=10.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	69333	34.02	69508
0	69328	34.61	69509
0	69327	35.53	69498
0	69326	36.05	69497
0	69324	36.68	69426


Parameter=Bottom Salinity (psu) River Kilometer=10.5 Level=Bottom
Percent
25
20
15
10
5
0
0
4
8
12
16
20
24
28
32
36
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=12.7 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	12.8423749	**Sum Observations**	3454.59885
Std Deviation	8.60352752	**Variance**	74.0206858
Skewness	-0.0610179	**Kurtosis**	-1.0315397
Uncorrected SS	64202.7974	**Corrected SS**	19837.5438
Coeff Variation	66.9932748	**Std Error Mean**	0.52456633

Basic Statistical Measures			
Location		**Variability**	
Mean	12.84237	**Std Deviation**	8.60353
Median	13.91000	**Variance**	74.02069
Mode	0.00000	**Range**	31.65000
		Interquartile Range	14.75000

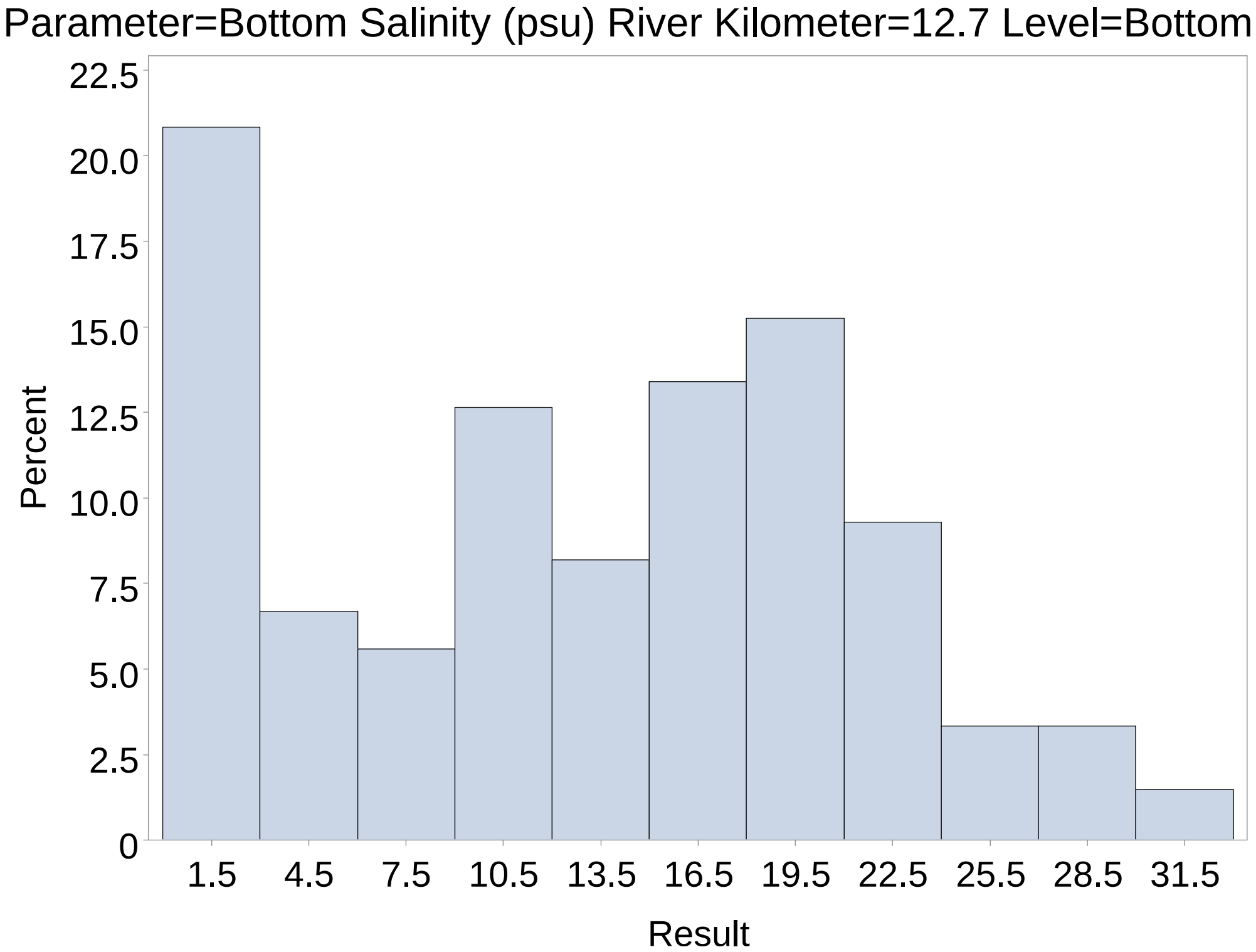
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.48189	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.65
99%	30.68
95%	26.10
90%	23.12
75% Q3	19.52
50% Median	13.91
25% Q1	4.77
10%	0.17
5%	0.11
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=12.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	69613	29.61	69634
0	69602	30.14	69778
0	69597	30.68	69767
0	69596	31.48	69695
0	69595	31.65	69766


Parameter=Bottom Salinity (psu) River Kilometer=12.7 Level=Bottom
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=12.8 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	12.3525749	**Sum Observations**	3322.84265
Std Deviation	8.59751676	**Variance**	73.9172945
Skewness	-0.0069992	**Kurtosis**	-1.0297098
Uncorrected SS	60855.4976	**Corrected SS**	19809.8349
Coeff Variation	69.601009	**Std Error Mean**	0.52419985

Basic Statistical Measures			
Location		**Variability**	
Mean	12.35257	**Std Deviation**	8.59752
Median	13.41000	**Variance**	73.91729
Mode	0.00000	**Range**	31.82000
		Interquartile Range	14.42000

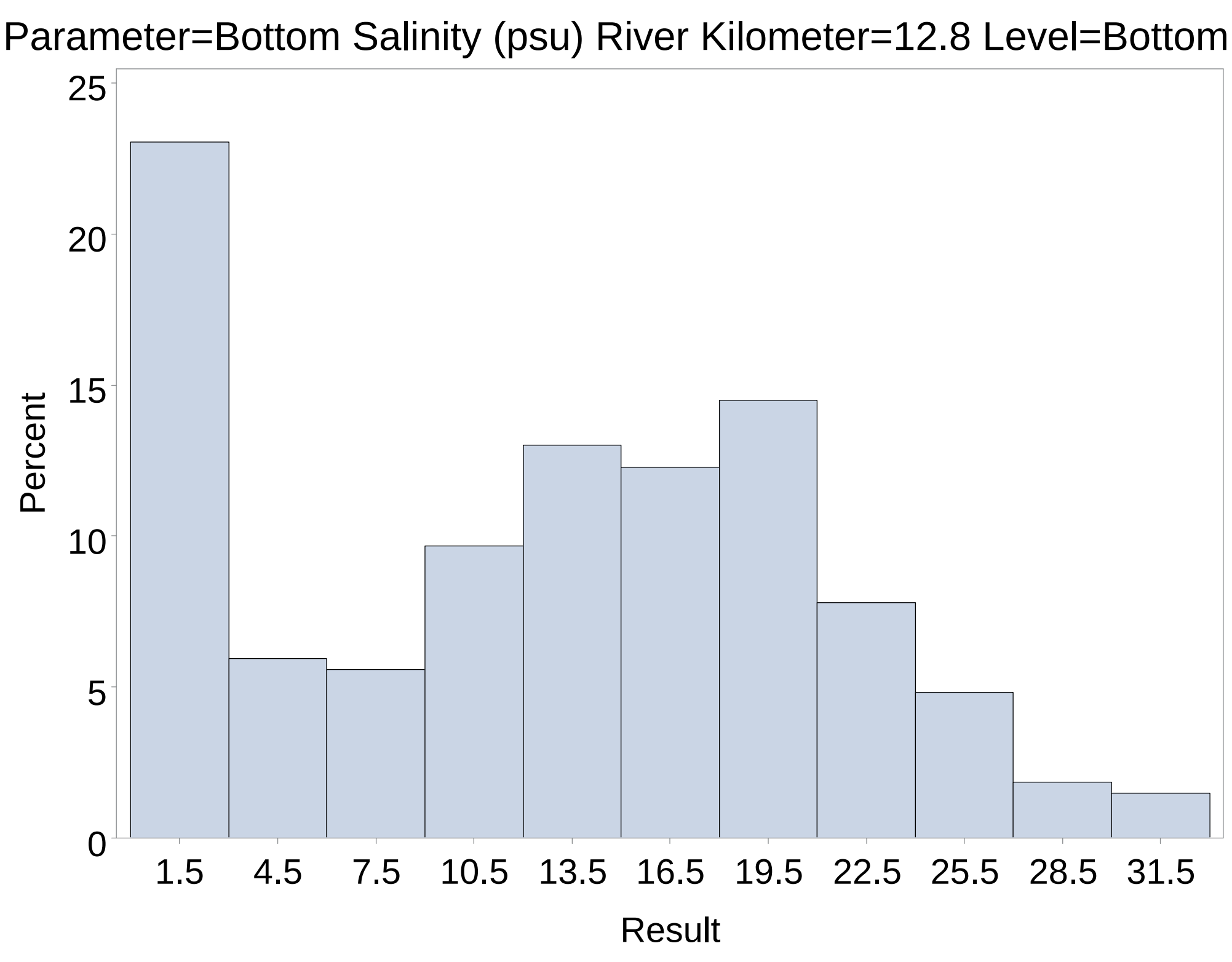
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.56463	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.82
99%	30.31
95%	25.23
90%	23.18
75% Q3	18.81
50% Median	13.41
25% Q1	4.39
10%	0.16
5%	0.10
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=12.8 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	69882	29.79	69901
0	69871	30.17	70047
0	69866	30.31	69903
0	69865	31.49	69964
0	69864	31.82	70035


Parameter=Bottom Salinity (psu) River Kilometer=12.8 Level=Bottom
Percent
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=15.5 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	8.83563085	**Sum Observations**	2792.05935
Std Deviation	7.68875717	**Variance**	59.1169868
Skewness	0.47006132	**Kurtosis**	-0.7628967
Uncorrected SS	43291.4566	**Corrected SS**	18621.8509
Coeff Variation	87.0199004	**Std Error Mean**	0.43252638

Basic Statistical Measures			
Location		**Variability**	
Mean	8.835631	**Std Deviation**	7.68876
Median	8.125000	**Variance**	59.11699
Mode	0.000000	**Range**	30.39000
		Interquartile Range	14.18887

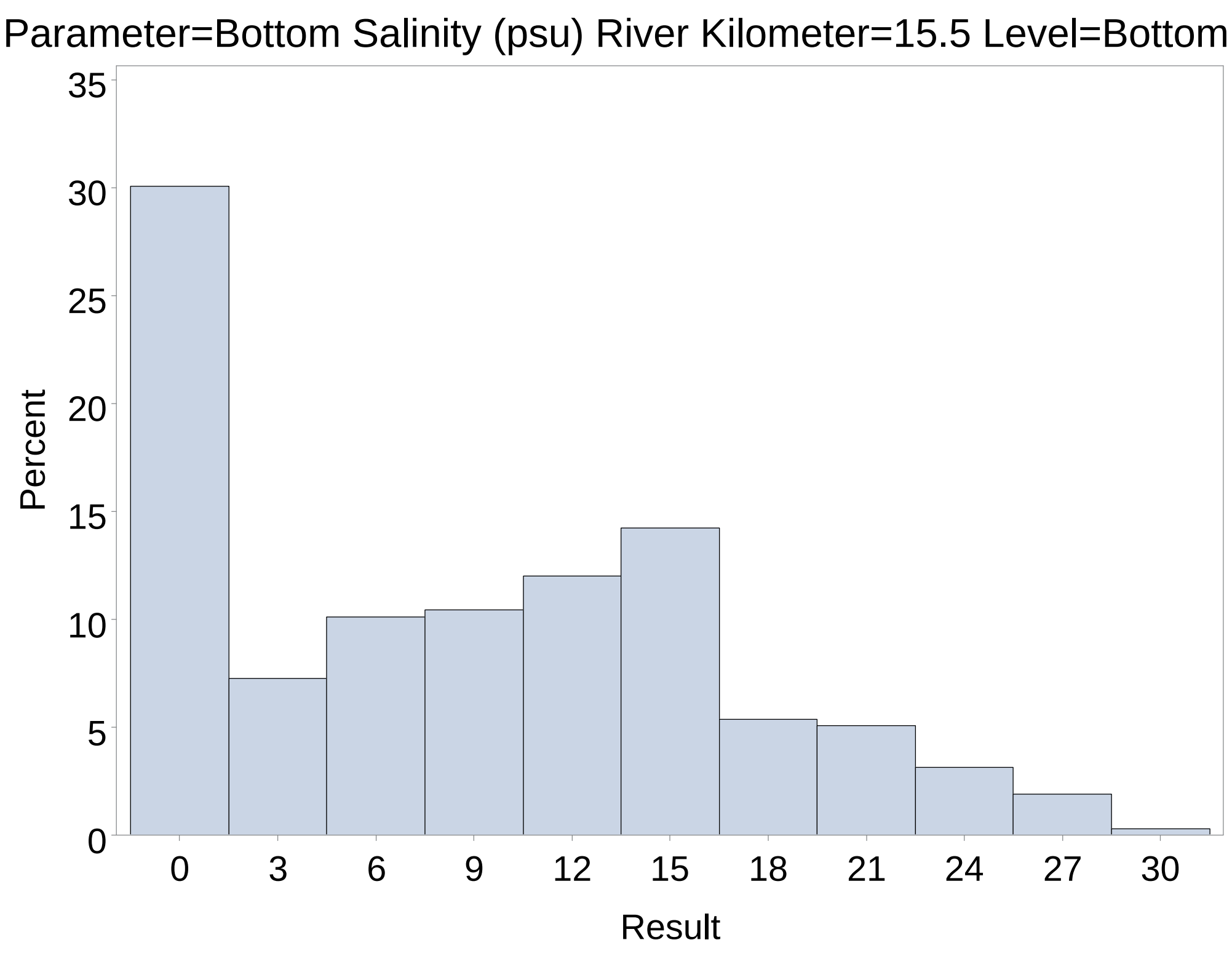
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.42796	**Pr > |t|**	<.0001
Sign	**M**	146.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	21535.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.3900
99%	27.4900
95%	23.0800
90%	19.6606
75% Q3	14.6039
50% Median	8.1250
25% Q1	0.4150
10%	0.1000
5%	0.0000
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	70191	26.78	70411
0	70188	27.49	70219
0	70187	27.69	70280
0	70186	27.86	70303
0	70185	30.39	70351


Parameter=Bottom Salinity (psu) River Kilometer=15.5 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=17.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	6.93732887	**Sum Observations**	1866.14147
Std Deviation	7.15627948	**Variance**	51.212336
Skewness	0.74253432	**Kurtosis**	-0.5389623
Uncorrected SS	26670.9431	**Corrected SS**	13724.906
Coeff Variation	103.156123	**Std Error Mean**	0.43632606

Basic Statistical Measures			
Location		**Variability**	
Mean	6.937329	**Std Deviation**	7.15628
Median	4.880000	**Variance**	51.21234
Mode	0.000000	**Range**	28.63000
		Interquartile Range	12.13000

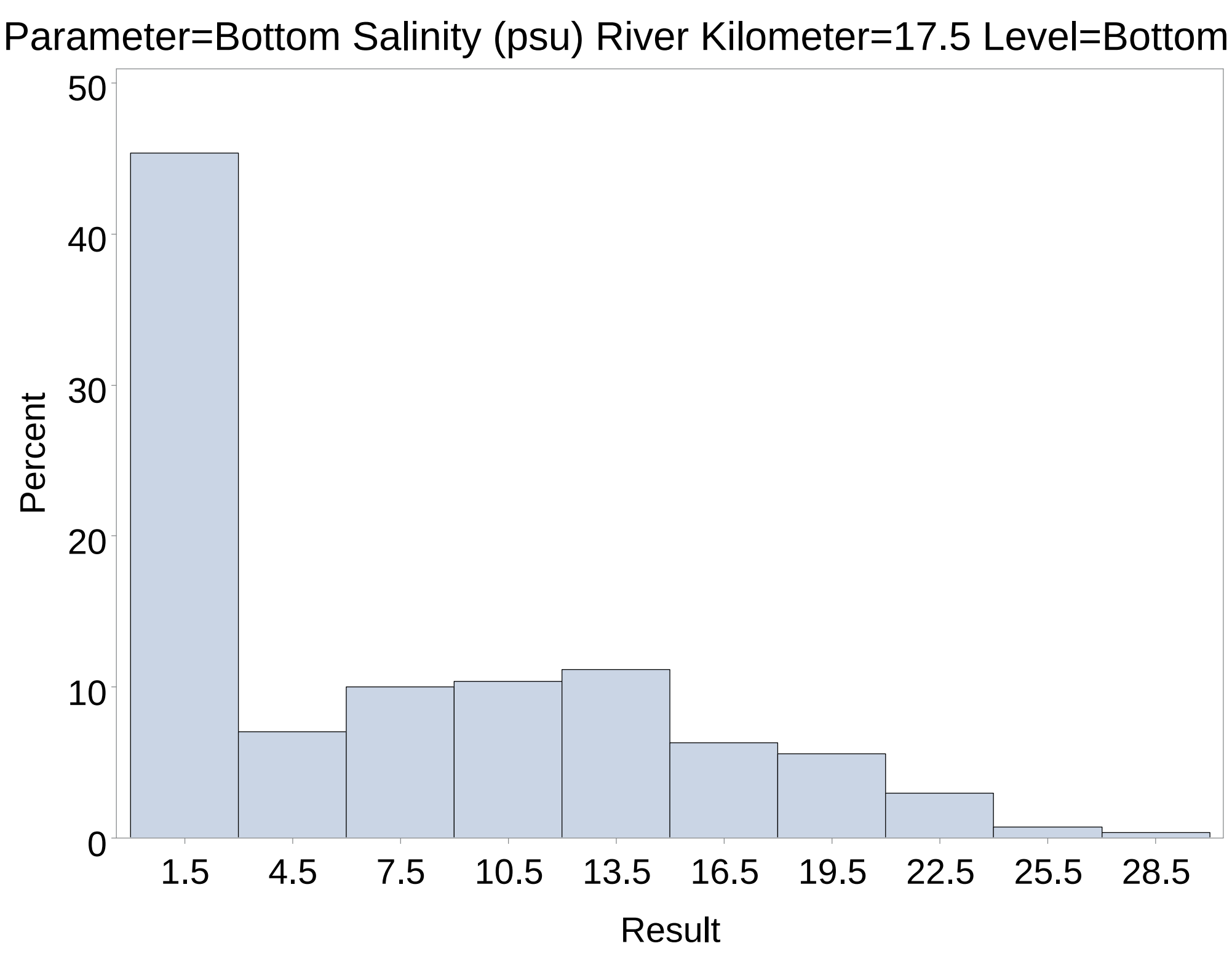
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.89941	**Pr > |t|**	<.0001
Sign	**M**	126	**Pr >= |M|**	<.0001
Signed Rank	**S**	15939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.63
99%	25.24
95%	20.26
90%	17.43
75% Q3	12.36
50% Median	4.88
25% Q1	0.23
10%	0.11
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=17.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	70469	23.64	70680
0	70468	23.79	70549
0	70467	25.24	70488
0	70466	25.32	70572
0	70458	28.63	70620


Parameter=Bottom Salinity (psu) River Kilometer=17.5 Level=Bottom
50
40
30
20
10
0
Percent
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=20.1 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	5.21228505	**Sum Observations**	1402.10468
Std Deviation	6.20373976	**Variance**	38.486387
Skewness	1.06718099	**Kurtosis**	0.16353338
Uncorrected SS	17622.521	**Corrected SS**	10314.3517
Coeff Variation	119.021498	**Std Error Mean**	0.37824869

Basic Statistical Measures			
Location		**Variability**	
Mean	5.212285	**Std Deviation**	6.20374
Median	2.000000	**Variance**	38.48639
Mode	0.000000	**Range**	26.51000
		Interquartile Range	9.21000

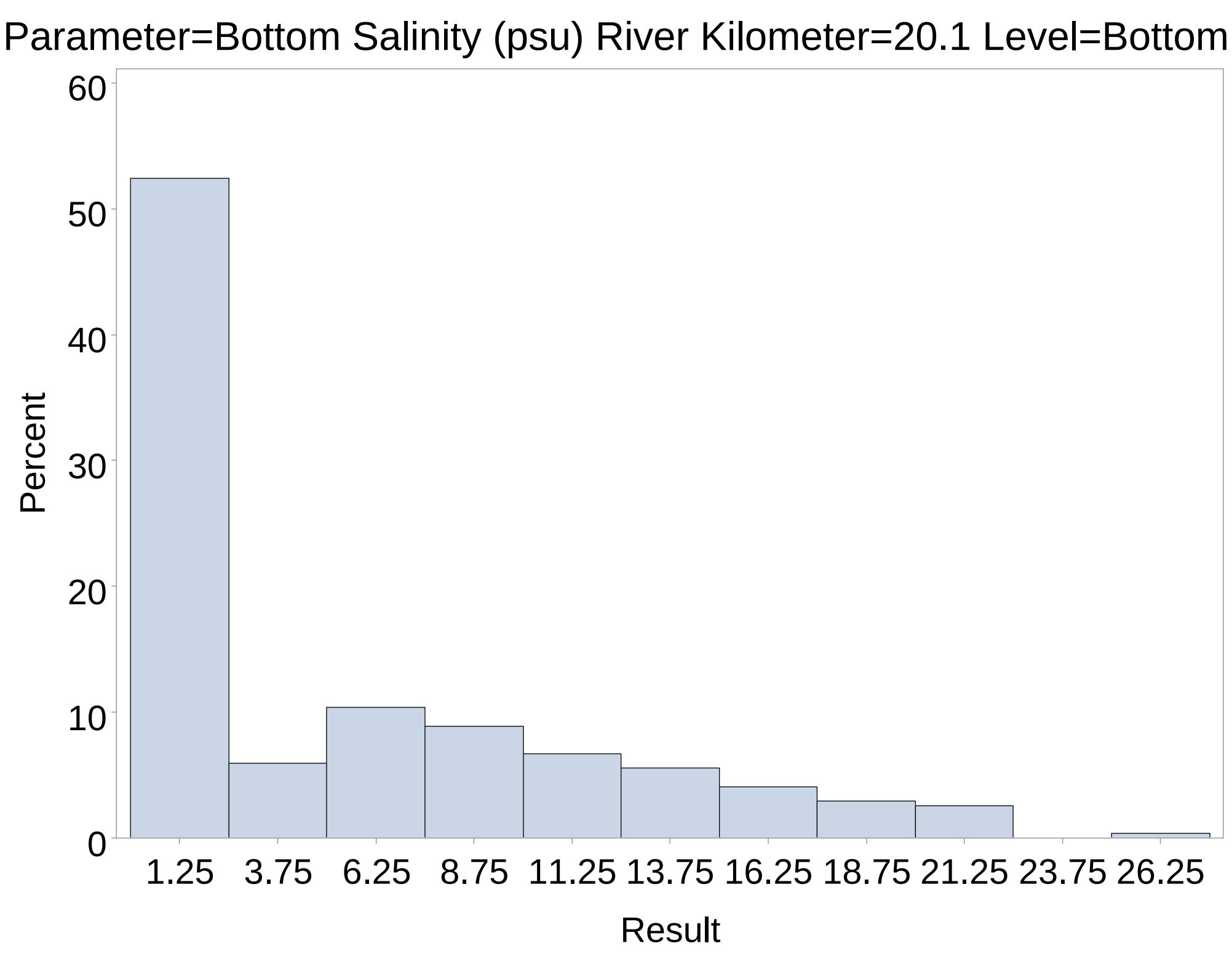
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.78005	**Pr > |t|**	<.0001
Sign	**M**	125.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	15813	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.5100
99%	22.2498
95%	17.7600
90%	15.1600
75% Q3	9.4000
50% Median	2.0000
25% Q1	0.1900
10%	0.1000
5%	0.0000
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=20.1 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	70738	20.5400	70949
0	70737	22.1500	70841
0	70736	22.2498	70745
0	70735	22.4900	70757
0	70734	26.5100	70889


Parameter=Bottom Salinity (psu) River Kilometer=20.1 Level=Bottom
60
50
40
30
20
10
0
Percent
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
26.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=21.9 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	2.96522283	**Sum Observations**	797.644941
Std Deviation	4.52938298	**Variance**	20.5153102
Skewness	1.87028383	**Kurtosis**	2.98753258
Uncorrected SS	7863.29812	**Corrected SS**	5498.10313
Coeff Variation	152.750172	**Std Error Mean**	0.27616135

Basic Statistical Measures			
Location		**Variability**	
Mean	2.965223	**Std Deviation**	4.52938
Median	0.360000	**Variance**	20.51531
Mode	0.000000	**Range**	21.83000
		Interquartile Range	3.95000

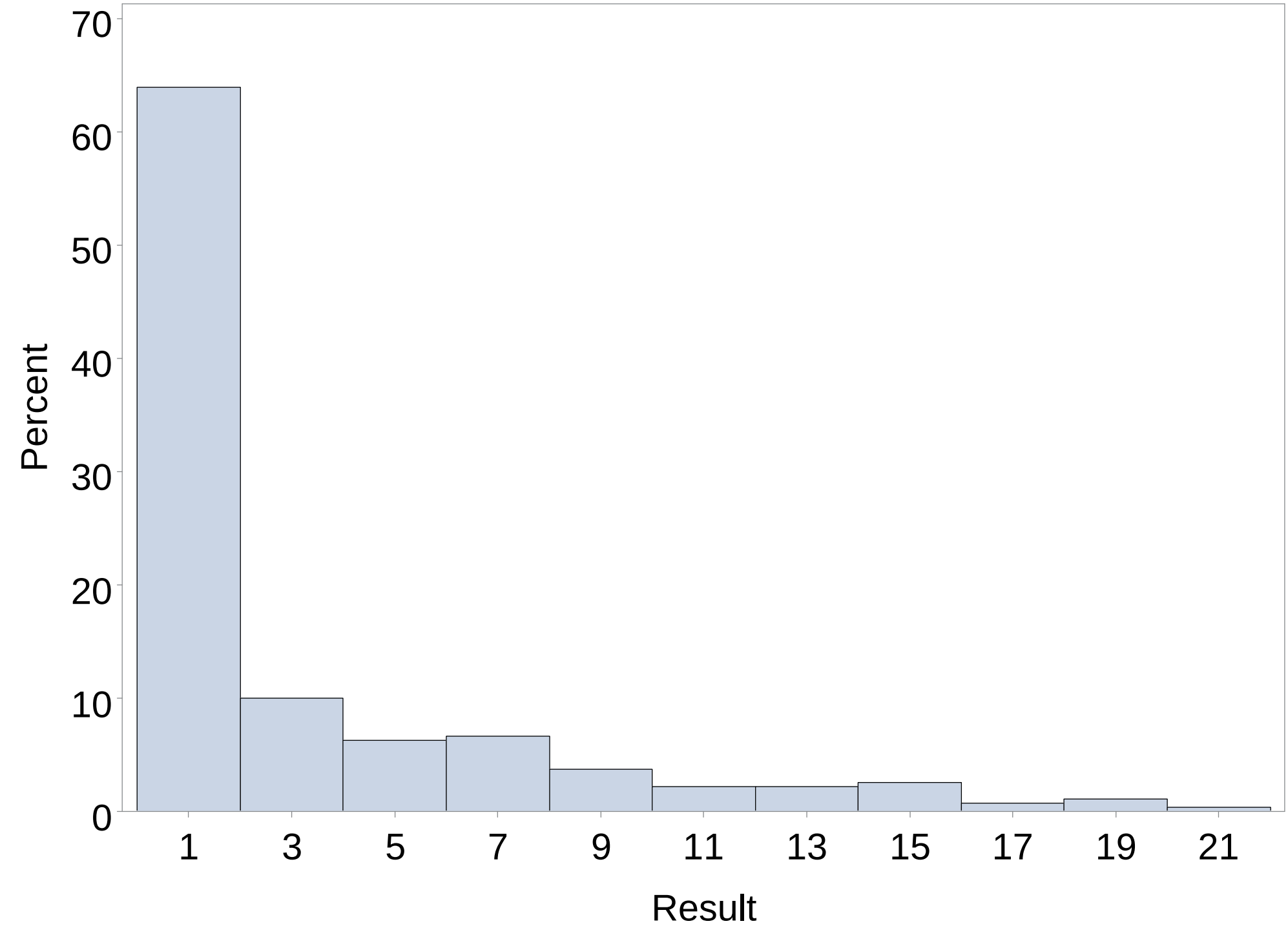
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.73728	**Pr > |t|**	<.0001
Sign	**M**	123	**Pr >= |M|**	<.0001
Signed Rank	**S**	15190.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	21.83
99%	18.92
95%	13.85
90%	9.54
75% Q3	4.12
50% Median	0.36
25% Q1	0.17
10%	0.07
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=21.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	71007	17.5600	71218
0	71006	18.2500	71110
0	71005	18.9200	71026
0	71004	19.4524	71014
0	71003	21.8300	71158


Parameter=Bottom Salinity (psu) River Kilometer=21.9 Level=Bottom
Percent
70
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
21
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=23.6 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	2.14708285	**Sum Observations**	678.478181
Std Deviation	3.84674205	**Variance**	14.7974244
Skewness	2.39517186	**Kurtosis**	5.52826918
Uncorrected SS	6117.93756	**Corrected SS**	4661.18869
Coeff Variation	179.161323	**Std Error Mean**	0.21639615

Basic Statistical Measures			
Location		**Variability**	
Mean	2.147083	**Std Deviation**	3.84674
Median	0.270000	**Variance**	14.79742
Mode	0.000000	**Range**	19.92000
		Interquartile Range	2.11000

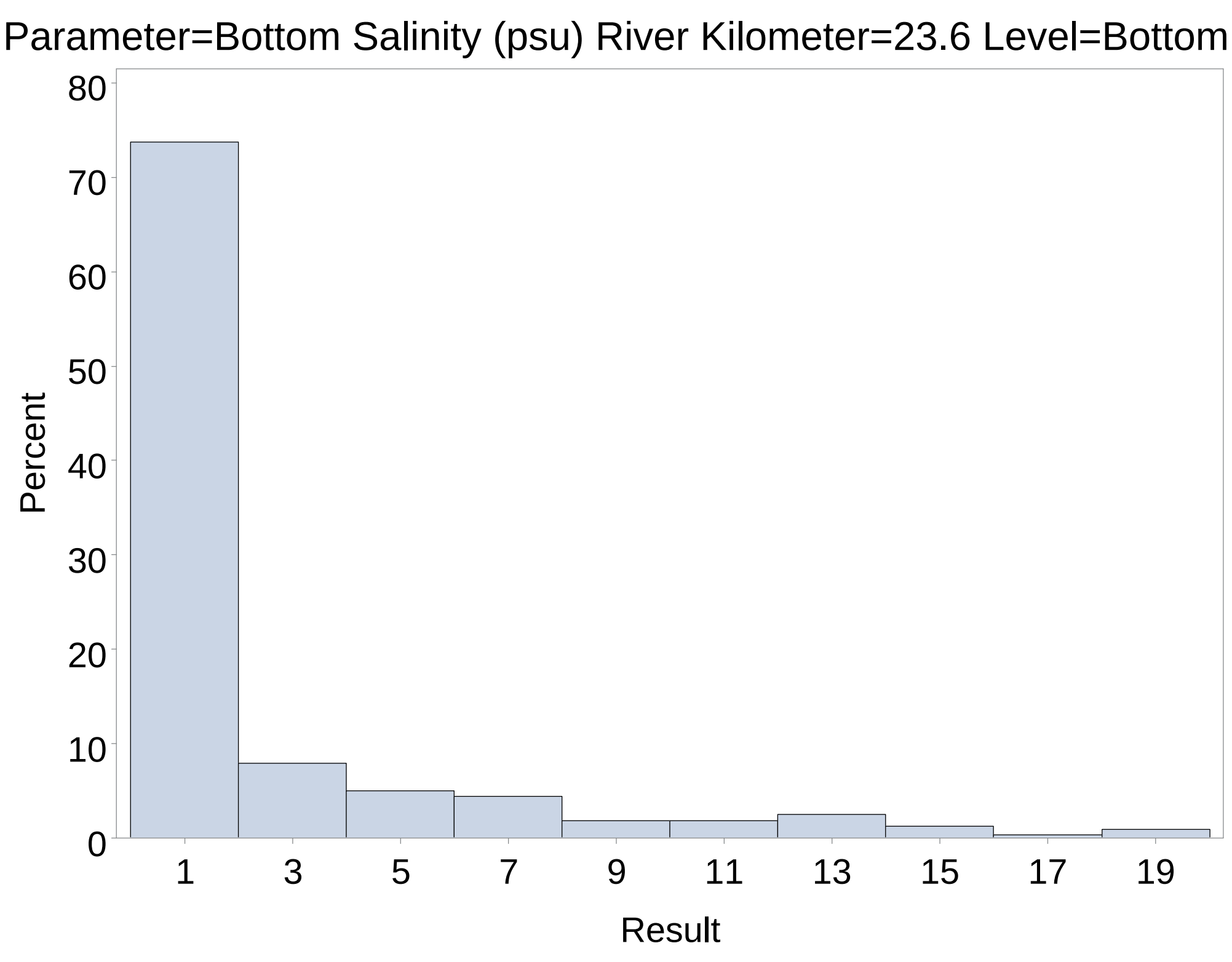
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.922001	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.92
99%	16.13
95%	12.38
90%	6.98
75% Q3	2.25
50% Median	0.27
25% Q1	0.14
10%	0.00
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	71317	15.8168	71330
0	71316	16.1300	71426
0	71315	18.2770	71329
0	71314	19.1058	71328
0	71313	19.9200	71474


Parameter=Bottom Salinity (psu) River Kilometer=23.6 Level=Bottom
Percent
0
10
20
30
40
50
60
70
80
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=24.7 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	1.54001766	**Sum Observations**	414.264752
Std Deviation	3.05342715	**Variance**	9.32341737
Skewness	2.93307209	**Kurtosis**	9.01236142
Uncorrected SS	3136.65089	**Corrected SS**	2498.67585
Coeff Variation	198.272216	**Std Error Mean**	0.18617074

Basic Statistical Measures			
Location		**Variability**	
Mean	1.540018	**Std Deviation**	3.05343
Median	0.250000	**Variance**	9.32342
Mode	0.000000	**Range**	18.35000
		Interquartile Range	0.91000

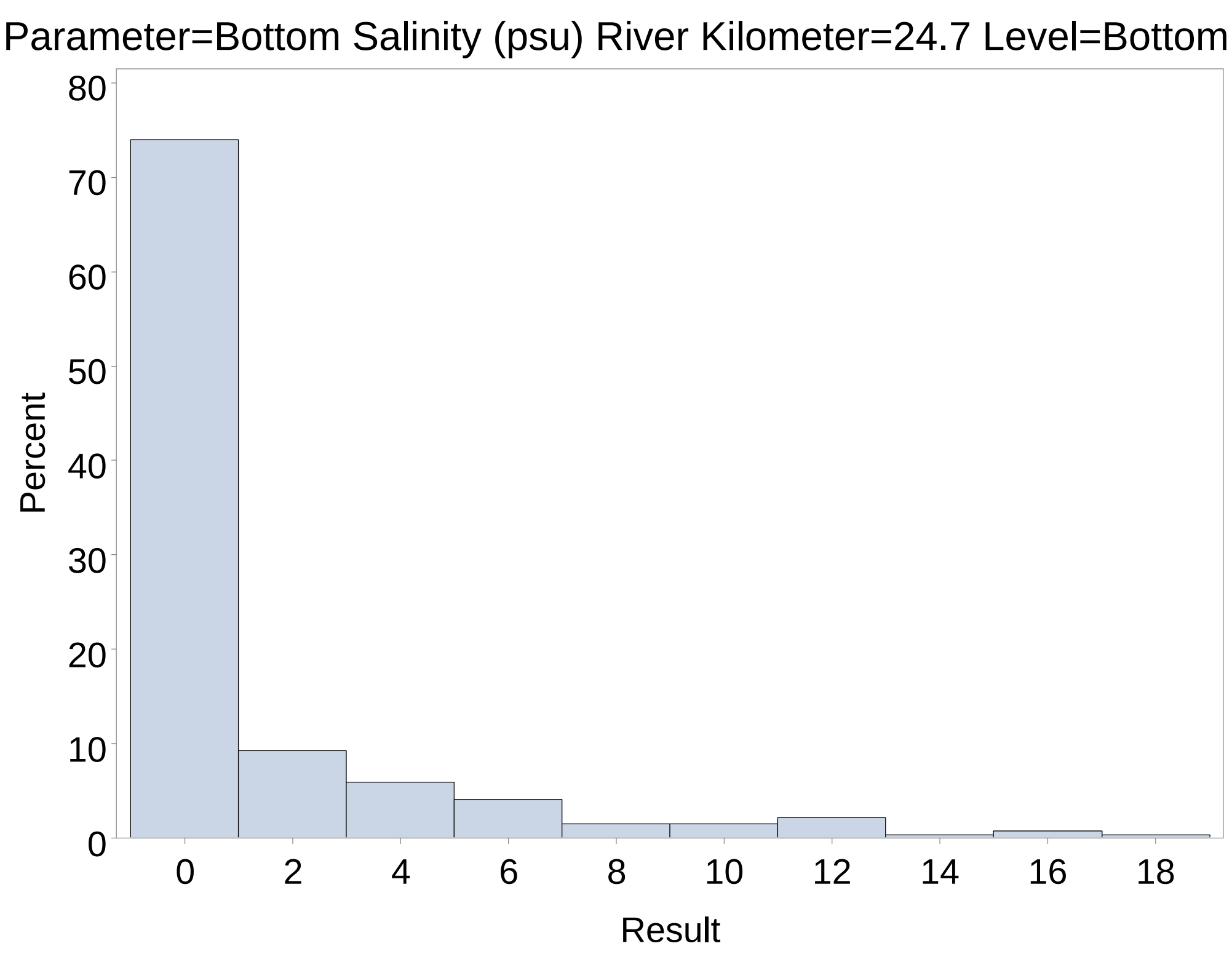
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.272071	**Pr > |t|**	<.0001
Sign	**M**	121.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14823	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.350000
99%	15.130000
95%	9.200000
90%	5.100000
75% Q3	1.060000
50% Median	0.250000
25% Q1	0.150000
10%	0.025344
5%	0.000000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=24.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	71593	12.5100	71706
0	71592	13.1100	71611
0	71591	15.1300	71695
0	71590	16.3599	71599
0	71589	18.3500	71743


Parameter=Bottom Salinity (psu) River Kilometer=24.7 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=25.9 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	1.00453664	**Sum Observations**	269.215818
Std Deviation	2.24940638	**Variance**	5.05982908
Skewness	3.59629676	**Kurtosis**	13.8668627
Uncorrected SS	1621.41152	**Corrected SS**	1350.97436
Coeff Variation	223.924773	**Std Error Mean**	0.13740436

Basic Statistical Measures			
Location		**Variability**	
Mean	1.004537	**Std Deviation**	2.24941
Median	0.225574	**Variance**	5.05983
Mode	0.000000	**Range**	14.55000
		Interquartile Range	0.32500

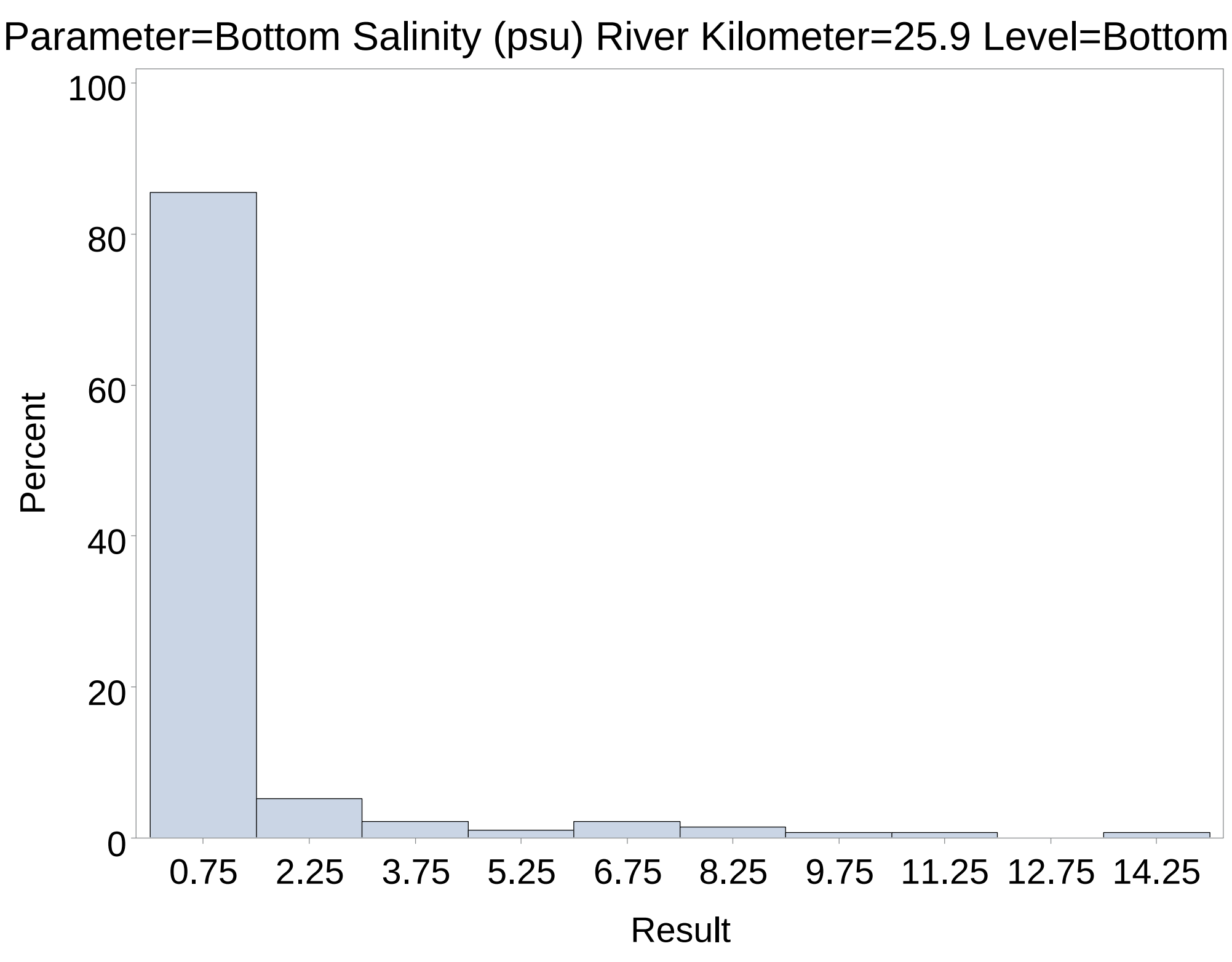
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.310806	**Pr > |t|**	<.0001
Sign	**M**	119.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14340	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.550000
99%	11.020000
95%	6.460000
90%	2.760000
75% Q3	0.465000
50% Median	0.225574
25% Q1	0.140000
10%	0.000000
5%	0.000000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=25.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	71862	9.7400	71879
0	71861	10.9100	71963
0	71860	11.0200	71974
0	71859	14.1333	71867
0	71858	14.5500	72011


Parameter=Bottom Salinity (psu) River Kilometer=25.9 Level=Bottom
100
80
60
40
20
0
Percent
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=29.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	0.48224314	**Sum Observations**	129.723406
Std Deviation	1.11476049	**Variance**	1.24269095
Skewness	5.15464326	**Kurtosis**	30.5051373
Uncorrected SS	395.599397	**Corrected SS**	333.041174
Coeff Variation	231.161501	**Std Error Mean**	0.06796815

Basic Statistical Measures			
Location		**Variability**	
Mean	0.482243	**Std Deviation**	1.11476
Median	0.220000	**Variance**	1.24269
Mode	0.000000	**Range**	9.67382
		Interquartile Range	0.19000

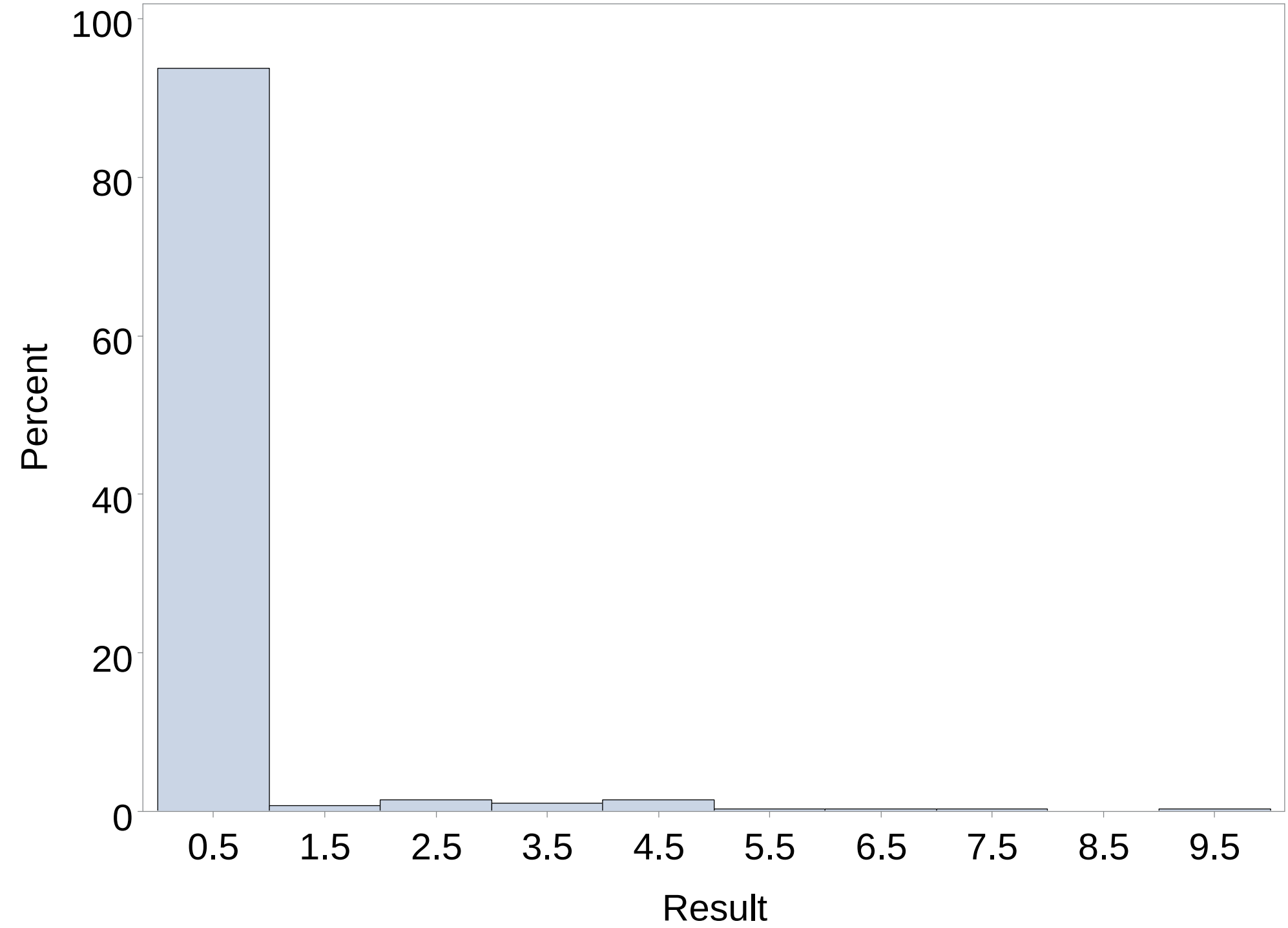
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.095135	**Pr > |t|**	<.0001
Sign	**M**	118	**Pr >= |M|**	<.0001
Signed Rank	**S**	13983	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.67382
99%	6.73000
95%	2.58078
90%	0.64000
75% Q3	0.33000
50% Median	0.22000
25% Q1	0.14000
10%	0.00000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=29.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	72131	4.64000	72148
0	72130	5.24000	72243
0	72129	6.73000	72232
0	72128	7.96000	72280
0	72127	9.67382	72136


Parameter=Bottom Salinity (psu) River Kilometer=29.5 Level=Bottom
100
80
60
40
20
0
Percent
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=30.7 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	0.37269426	**Sum Observations**	117.771387
Std Deviation	0.89052908	**Variance**	0.79304204
Skewness	6.06088045	**Kurtosis**	42.8123164
Uncorrected SS	293.700964	**Corrected SS**	249.808244
Coeff Variation	238.943598	**Std Error Mean**	0.05009617

Basic Statistical Measures			
Location		**Variability**	
Mean	0.372694	**Std Deviation**	0.89053
Median	0.200000	**Variance**	0.79304
Mode	0.000000	**Range**	8.21111
		Interquartile Range	0.26112

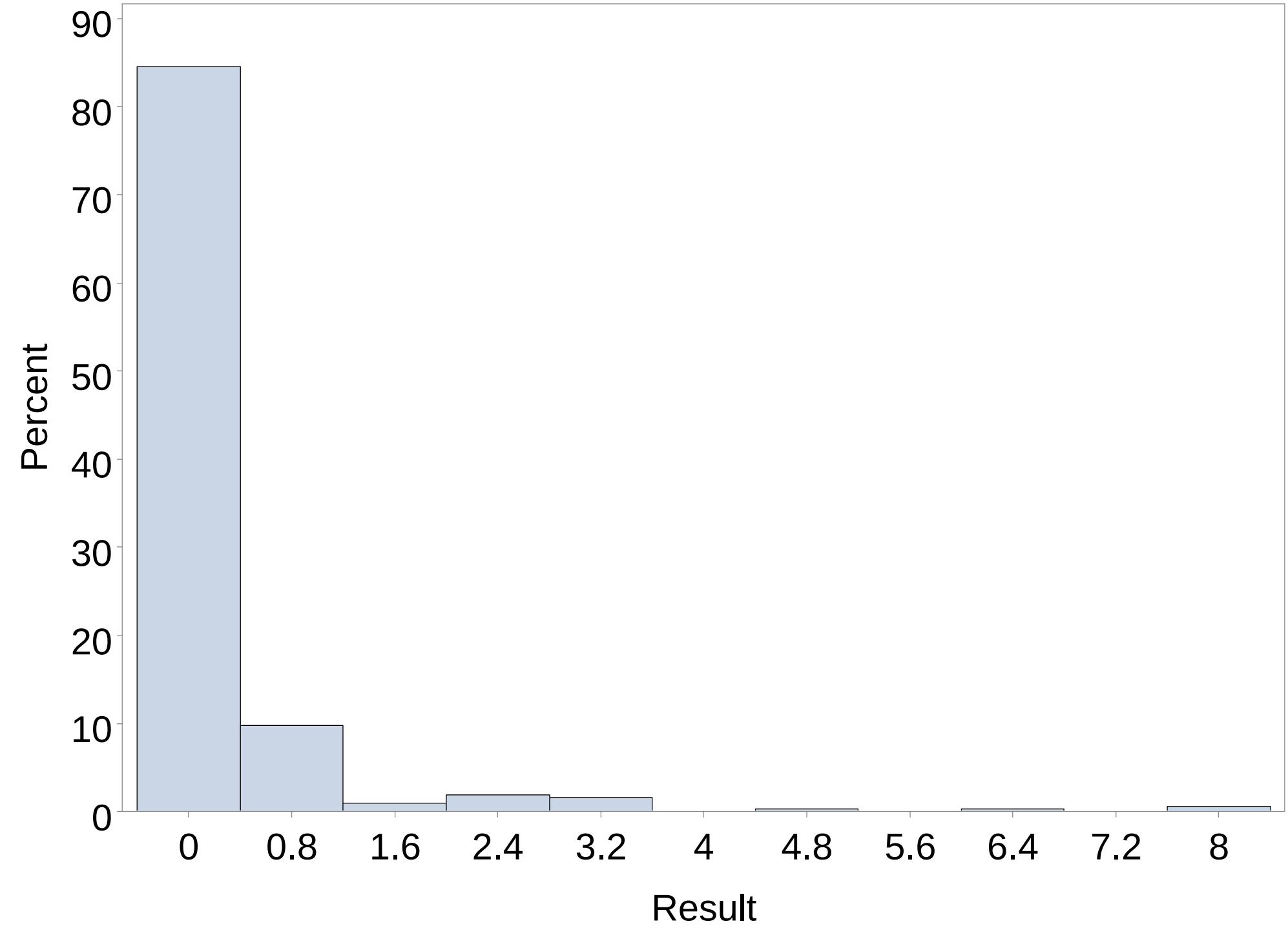
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.439575	**Pr > |t|**	<.0001
Sign	**M**	124.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	15562.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.2111095
99%	4.7800000
95%	1.3300000
90%	0.5200000
75% Q3	0.3100000
50% Median	0.2000000
25% Q1	0.0488844
10%	0.0000000
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	72441	3.48000	72559
0	72439	4.78000	72548
0	72438	6.71000	72596
0	72437	7.64588	72451
0	72436	8.21111	72450


Parameter=Bottom Salinity (psu) River Kilometer=30.7 Level=Bottom
Percent
90
80
70
60
50
40
30
20
10
0
0
0.8
1.6
2.4
3.2
4
4.8
5.6
6.4
7.2
8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=32.3 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	0.300403	**Sum Observations**	80.207601
Std Deviation	0.50328856	**Variance**	0.25329938
Skewness	7.29980276	**Kurtosis**	66.7399935
Uncorrected SS	91.4722389	**Corrected SS**	67.3776349
Coeff Variation	167.537796	**Std Error Mean**	0.03080076

Basic Statistical Measures			
Location		**Variability**	
Mean	0.300403	**Std Deviation**	0.50329
Median	0.210000	**Variance**	0.25330
Mode	0.000000	**Range**	5.79328
		Interquartile Range	0.17000

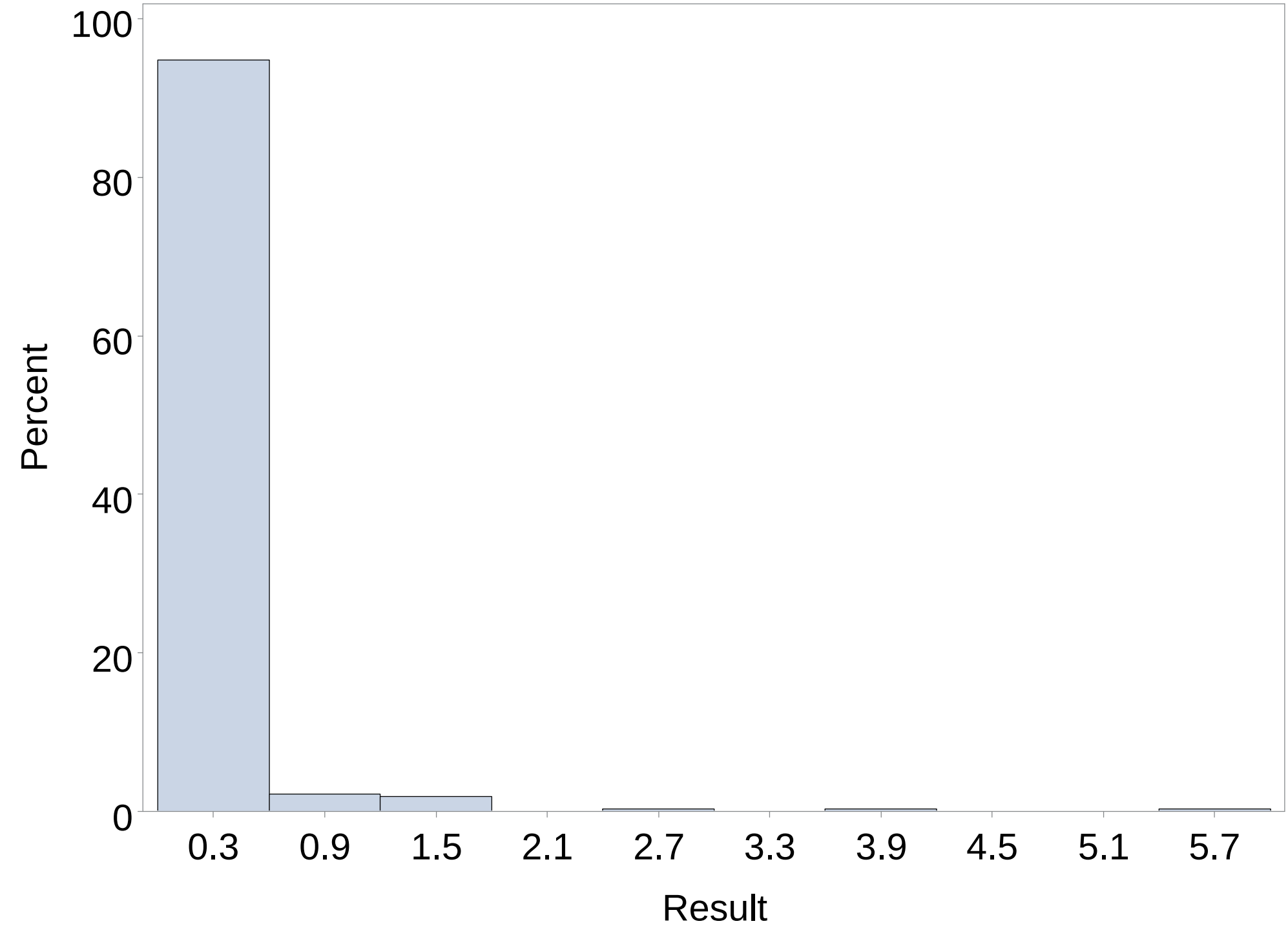
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.753104	**Pr > |t|**	<.0001
Sign	**M**	117.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	13865	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.79328
99%	2.86000
95%	0.64000
90%	0.46000
75% Q3	0.31000
50% Median	0.21000
25% Q1	0.14000
10%	0.00000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Salinity (psu) River Kilometer=32.3 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	72714	1.65000	72791
0	72713	1.79000	72826
0	72712	2.86000	72815
0	72711	4.04000	72863
0	72710	5.79328	72719


Parameter=Bottom Salinity (psu) River Kilometer=32.3 Level=Bottom
100
80
60
40
20
0
Percent
0.3
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
5.7
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=-2.4 Level=Surface

Moments			
N	310	**Sum Weights**	310
Mean	25.0802391	**Sum Observations**	7774.87412
Std Deviation	8.65575037	**Variance**	74.9220144
Skewness	-0.5178904	**Kurtosis**	-0.0747393
Uncorrected SS	218146.604	**Corrected SS**	23150.9024
Coeff Variation	34.5122323	**Std Error Mean**	0.49161359

Basic Statistical Measures			
Location		**Variability**	
Mean	25.08024	**Std Deviation**	8.65575
Median	26.41000	**Variance**	74.92201
Mode	23.45137	**Range**	43.52000
		Interquartile Range	11.28062

Note: The mode displayed is the smallest of 10 modes with a count of 2.

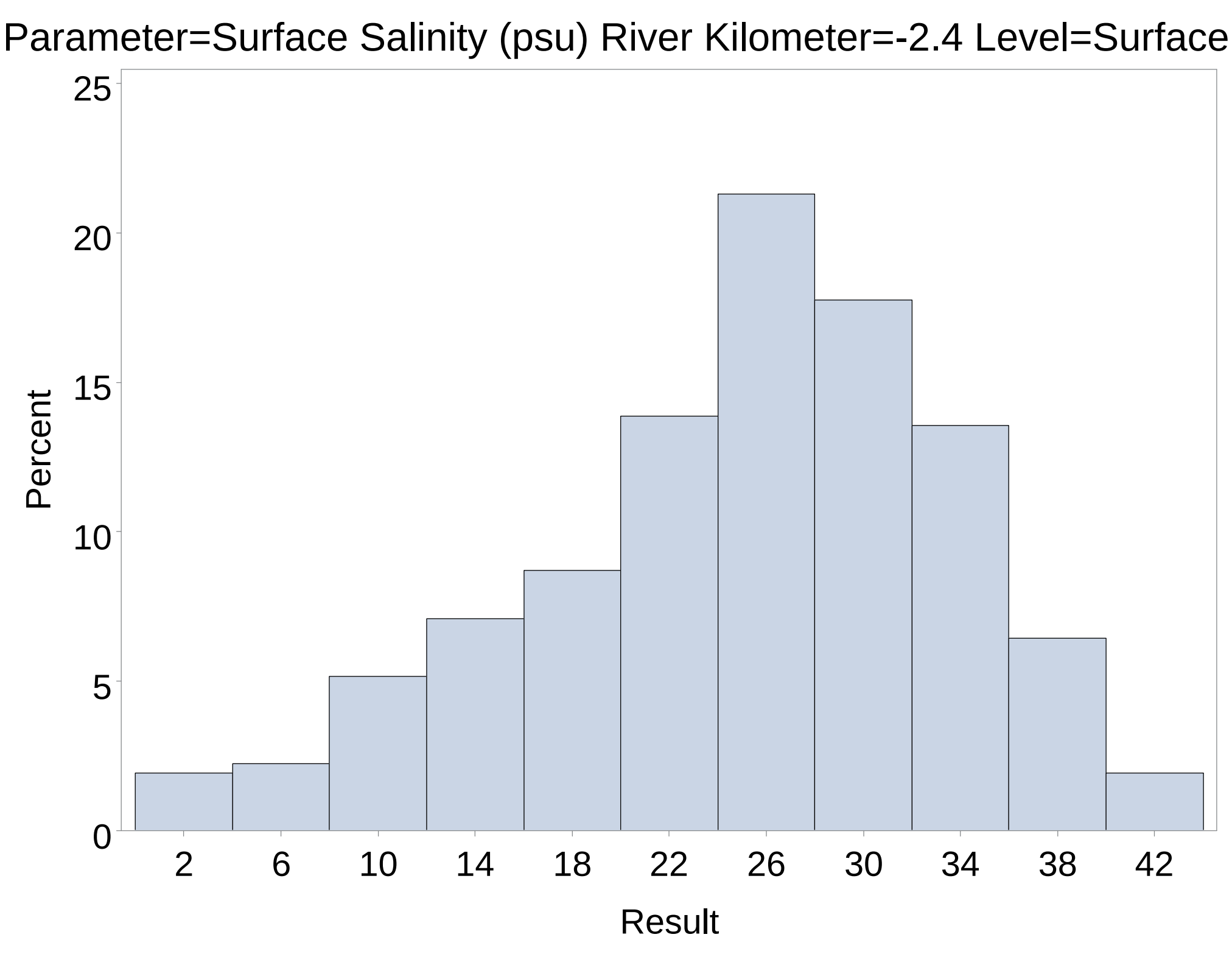
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.01616	**Pr > |t|**	<.0001
Sign	**M**	155	**Pr >= |M|**	<.0001
Signed Rank	**S**	24102.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	43.5400
99%	41.7700
95%	37.9600
90%	35.6150
75% Q3	31.2500
50% Median	26.4100
25% Q1	19.9694
10%	12.2818
5%	9.5300
1%	3.2200
0% Min	0.0200

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.02000	73197	41.20	73184
1.30863	72981	41.77	73175
2.79000	73047	42.26	73185
3.22000	73187	42.63	73174
3.84000	73068	43.54	73104


Parameter=Surface Salinity (psu) River Kilometer=-2.4 Level=Surface
Percent
25
20
15
10
5
0
2
6
10
14
18
22
26
30
34
38
42
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=6.6 Level=Surface

Moments			
N	314	**Sum Weights**	314
Mean	18.5787839	**Sum Observations**	5833.73815
Std Deviation	9.62907446	**Variance**	92.719075
Skewness	-0.2572196	**Kurtosis**	-0.7915615
Uncorrected SS	137404.831	**Corrected SS**	29021.0705
Coeff Variation	51.8283355	**Std Error Mean**	0.54340011

Basic Statistical Measures			
Location		**Variability**	
Mean	18.57878	**Std Deviation**	9.62907
Median	19.93418	**Variance**	92.71908
Mode	0.00000	**Range**	38.65000
		Interquartile Range	13.95737

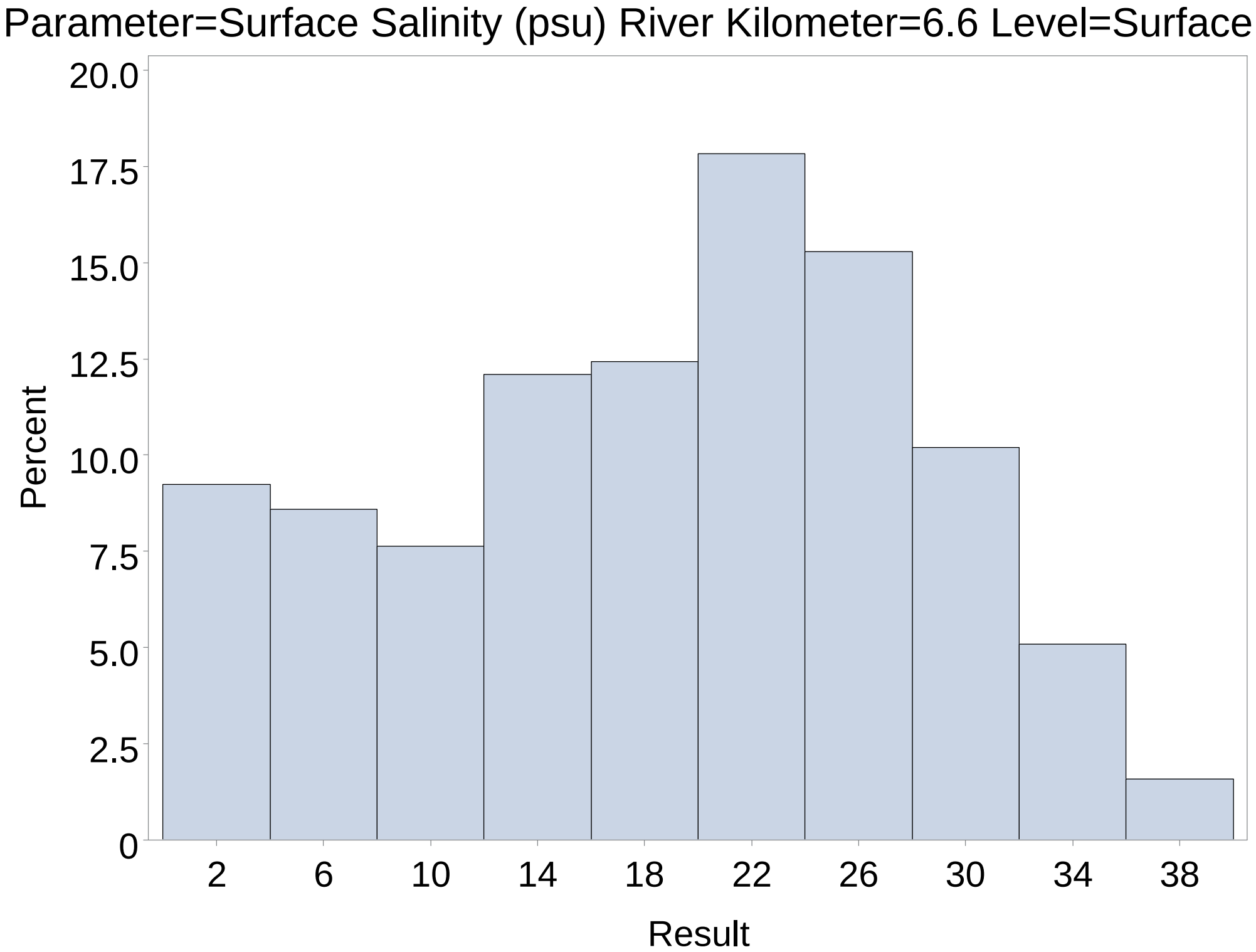
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.18988	**Pr > |t|**	<.0001
Sign	**M**	154	**Pr >= |M|**	<.0001
Signed Rank	**S**	23793	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	38.650000
99%	37.110000
95%	32.950000
90%	30.570000
75% Q3	25.650000
50% Median	19.934177
25% Q1	11.692631
10%	4.420641
5%	0.826051
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	73291	36.12	73489
0	73290	37.11	73498
0	73289	38.43	73417
0	73288	38.62	73488
0	73285	38.65	73499


Parameter=Surface Salinity (psu) River Kilometer=6.6 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
2
6
10
14
18
22
26
30
34
38
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=8.4 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	16.561107	**Sum Observations**	4454.93778
Std Deviation	10.1137974	**Variance**	102.288898
Skewness	-0.0899936	**Kurtosis**	-1.0240717
Uncorrected SS	101192.126	**Corrected SS**	27413.4247
Coeff Variation	61.0695736	**Std Error Mean**	0.61664911

Basic Statistical Measures			
Location		**Variability**	
Mean	16.56111	**Std Deviation**	10.11380
Median	17.90000	**Variance**	102.28890
Mode	0.00000	**Range**	39.67000
		Interquartile Range	16.62323

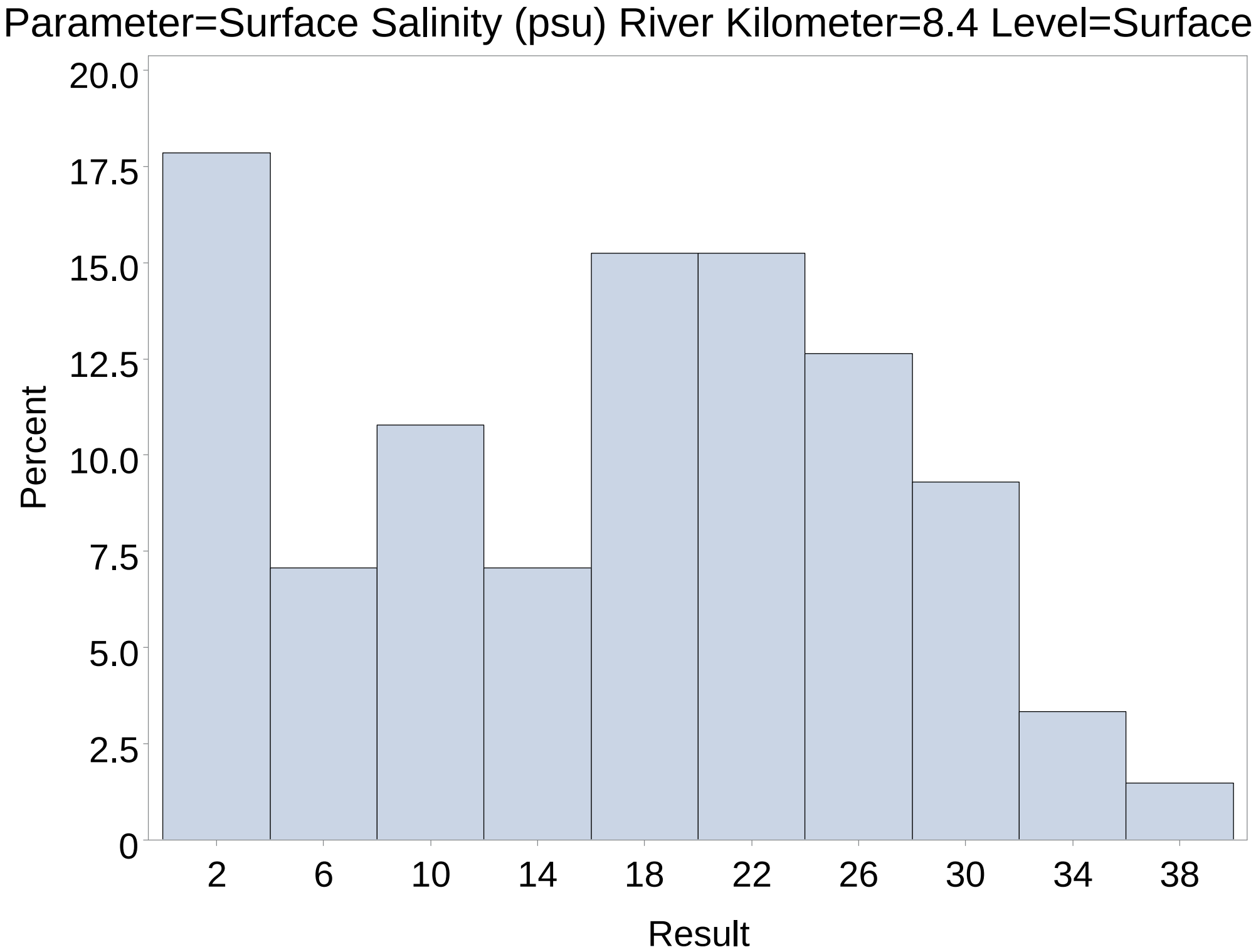
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.85661	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	39.67000
99%	36.49000
95%	31.58000
90%	29.68000
75% Q3	24.76000
50% Median	17.90000
25% Q1	8.13677
10%	1.63000
5%	0.20000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=8.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	73592	35.14	73624
0	73586	36.04	73767
0	73585	36.49	73756
0	73583	37.17	73768
0	73582	39.67	73685


Parameter=Surface Salinity (psu) River Kilometer=8.4 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
2
6
10
14
18
22
26
30
34
38
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=10.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	13.0489051	**Sum Observations**	3510.15548
Std Deviation	9.21975423	**Variance**	85.003868
Skewness	0.16160356	**Kurtosis**	-1.0619357
Uncorrected SS	68584.7225	**Corrected SS**	22781.0366
Coeff Variation	70.6553855	**Std Error Mean**	0.56213834

Basic Statistical Measures			
Location		**Variability**	
Mean	13.04891	**Std Deviation**	9.21975
Median	12.93000	**Variance**	85.00387
Mode	0.00000	**Range**	34.62000
		Interquartile Range	16.01341

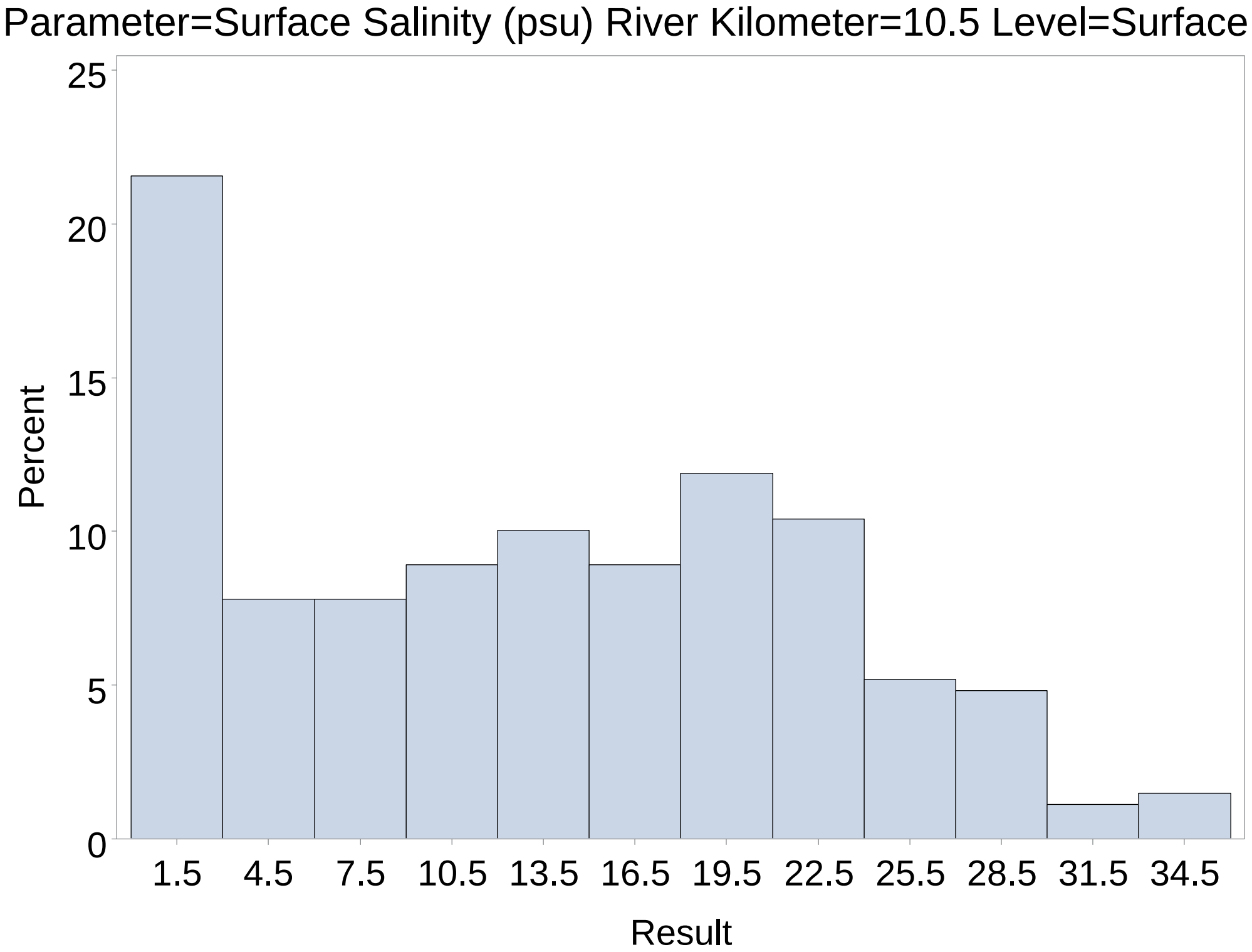
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.21298	**Pr > |t|**	<.0001
Sign	**M**	131.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17358	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.620000
99%	33.050000
95%	27.880000
90%	25.517505
75% Q3	20.440000
50% Median	12.930000
25% Q1	4.426590
10%	0.669175
5%	0.170000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=10.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	73872	32.18	73893
0	73861	33.02	74037
0	73856	33.05	74025
0	73855	33.09	74036
0	73854	34.62	73954


Parameter=Surface Salinity (psu) River Kilometer=10.5 Level=Surface
Percent
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
34.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=12.7 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	9.72946879	**Sum Observations**	2617.2271
Std Deviation	8.1628494	**Variance**	66.6321103
Skewness	0.44549492	**Kurtosis**	-0.8832271
Uncorrected SS	43321.635	**Corrected SS**	17857.4056
Coeff Variation	83.8982022	**Std Error Mean**	0.49769771

Basic Statistical Measures			
Location		**Variability**	
Mean	9.729469	**Std Deviation**	8.16285
Median	9.162172	**Variance**	66.63211
Mode	0.000000	**Range**	30.81000
		Interquartile Range	14.89000

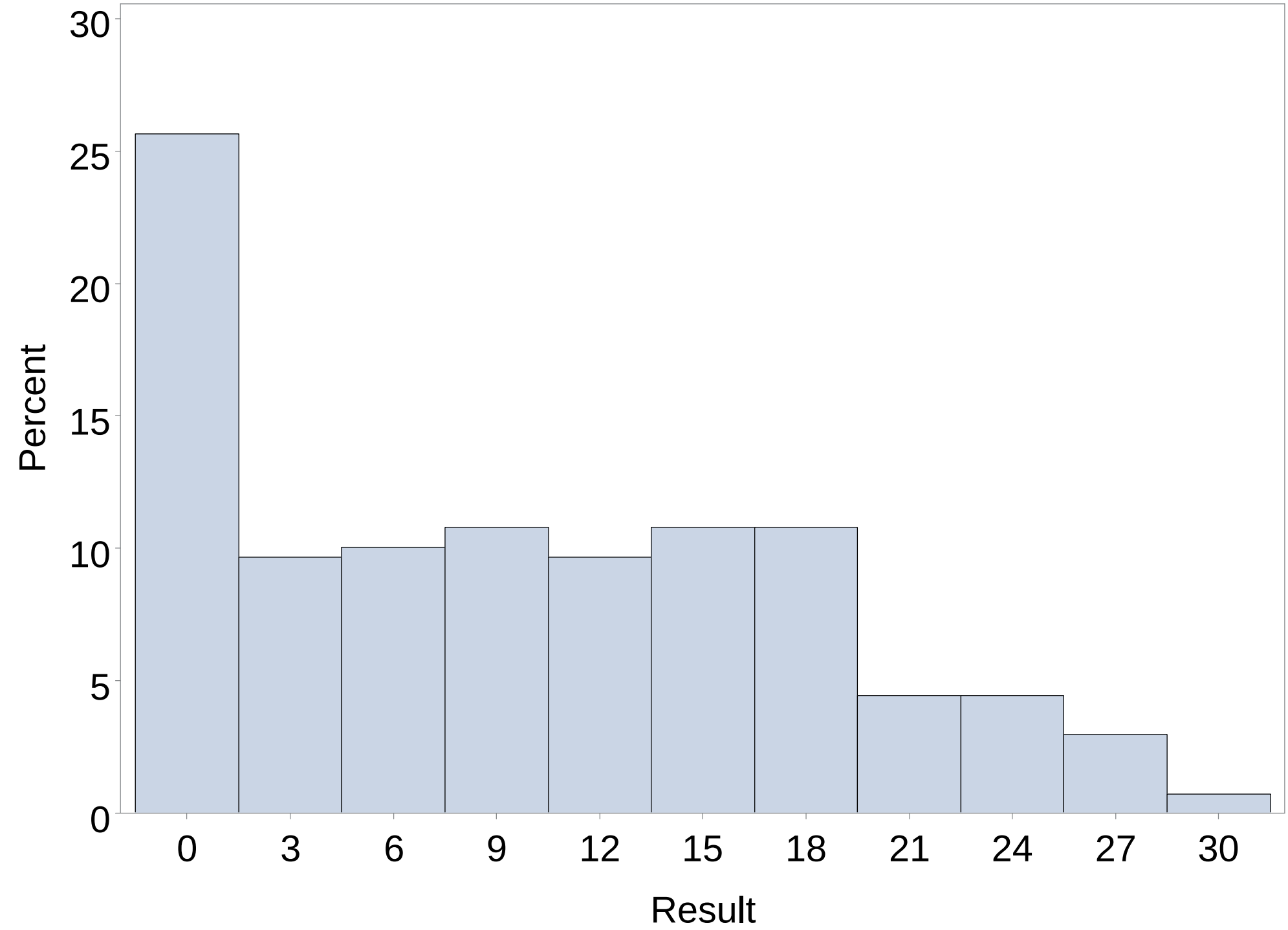
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.54895	**Pr > |t|**	<.0001
Sign	**M**	129.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	16835	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.81000
99%	27.84000
95%	24.75000
90%	21.40605
75% Q3	16.18000
50% Median	9.16217
25% Q1	1.29000
10%	0.17000
5%	0.10000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=12.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	74141	27.67	74354
0	74132	27.72	74306
0	74130	27.84	74246
0	74125	29.00	74162
0	74124	30.81	74294


Parameter=Surface Salinity (psu) River Kilometer=12.7 Level=Surface
Percent
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=12.8 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	9.44875435	**Sum Observations**	2541.71492
Std Deviation	8.16473083	**Variance**	66.6628295
Skewness	0.50113638	**Kurtosis**	-0.7653534
Uncorrected SS	41881.6782	**Corrected SS**	17865.6383
Coeff Variation	86.4106582	**Std Error Mean**	0.49781242

Basic Statistical Measures			
Location		**Variability**	
Mean	9.448754	**Std Deviation**	8.16473
Median	8.590000	**Variance**	66.66283
Mode	0.000000	**Range**	29.75000
		Interquartile Range	14.87000

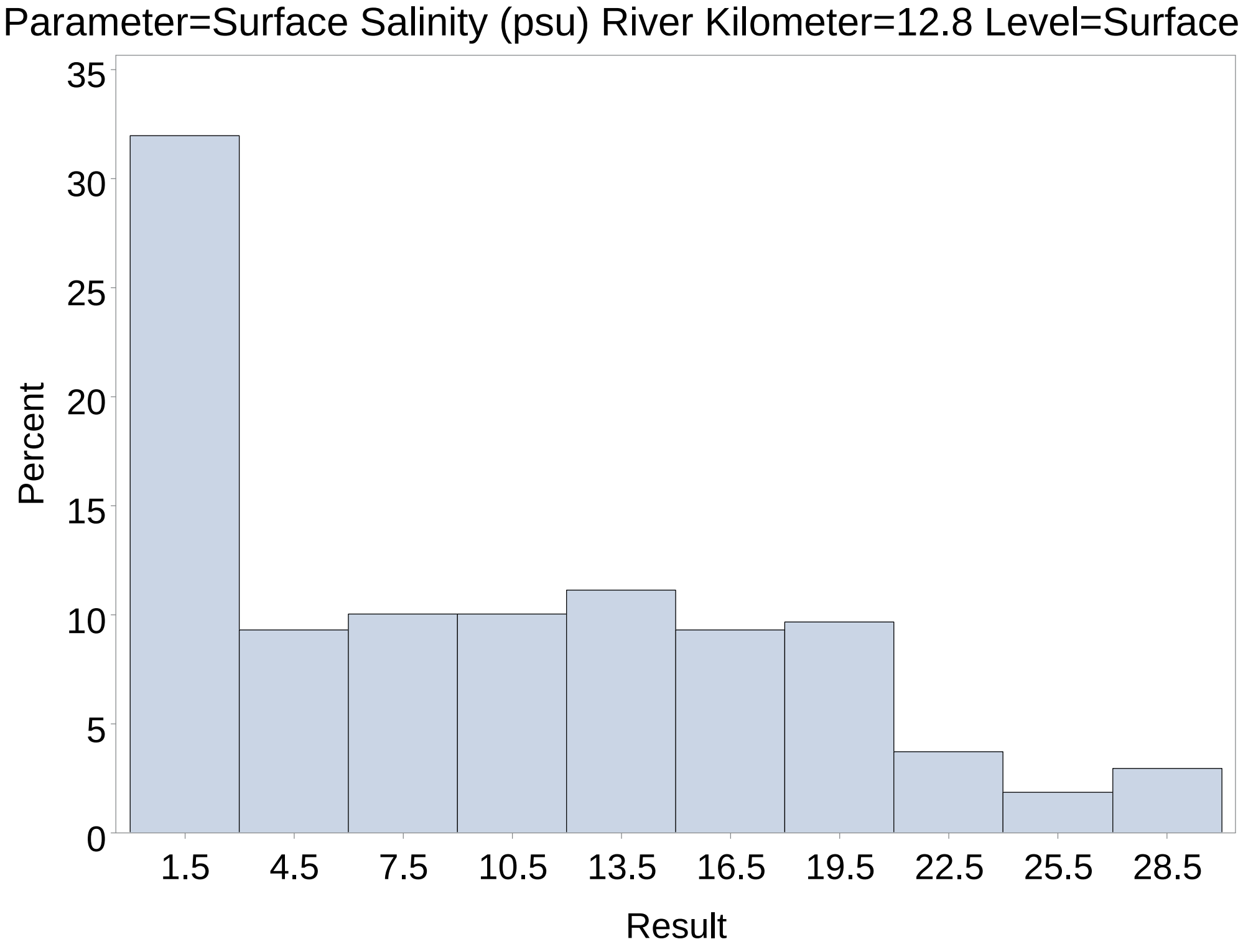
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.98055	**Pr > |t|**	<.0001
Sign	**M**	130	**Pr >= |M|**	<.0001
Signed Rank	**S**	16965	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.75
99%	29.63
95%	23.73
90%	20.46
75% Q3	15.99
50% Median	8.59
25% Q1	1.12
10%	0.14
5%	0.09
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=12.8 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	74410	29.03	74515
0	74401	29.44	74429
0	74399	29.63	74431
0	74394	29.70	74563
0	74393	29.75	74492


Parameter=Surface Salinity (psu) River Kilometer=12.8 Level=Surface
Percent
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=15.5 Level=Surface

Moments			
N	316	**Sum Weights**	316
Mean	7.03265272	**Sum Observations**	2222.31826
Std Deviation	7.20637399	**Variance**	51.9318261
Skewness	0.84832677	**Kurtosis**	-0.2318175
Uncorrected SS	31987.3178	**Corrected SS**	16358.5252
Coeff Variation	102.47021	**Std Error Mean**	0.40539021

Basic Statistical Measures			
Location		**Variability**	
Mean	7.032653	**Std Deviation**	7.20637
Median	4.720000	**Variance**	51.93183
Mode	0.000000	**Range**	28.66000
		Interquartile Range	11.59500

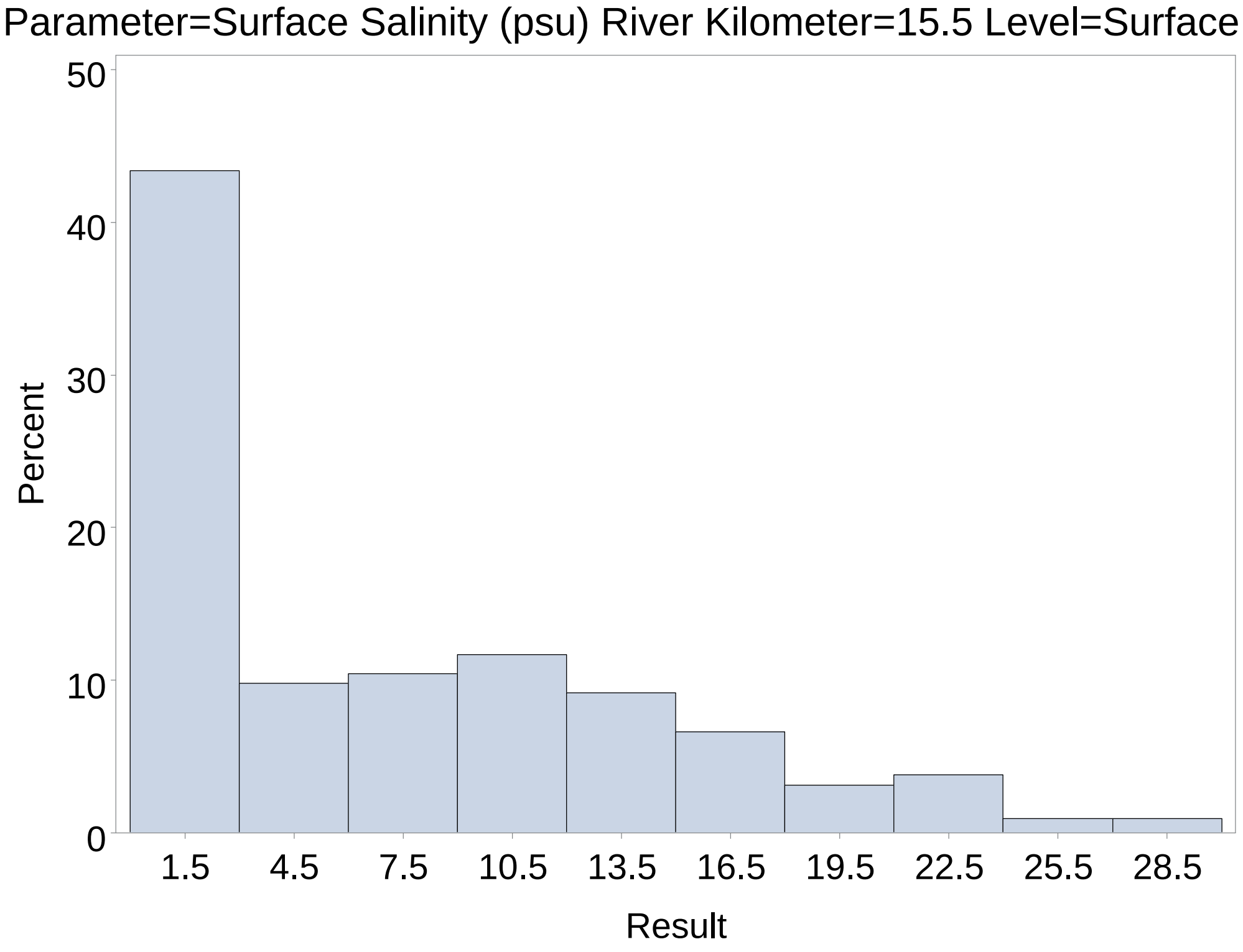
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.34786	**Pr > |t|**	<.0001
Sign	**M**	146	**Pr >= |M|**	<.0001
Signed Rank	**S**	21389	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.6600
99%	25.5891
95%	21.9800
90%	17.1500
75% Q3	11.9100
50% Median	4.7200
25% Q1	0.3150
10%	0.1000
5%	0.0000
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	74720	25.3745	74734
0	74719	25.5891	74733
0	74716	27.1400	74747
0	74715	27.8600	74831
0	74714	28.6600	74879


Parameter=Surface Salinity (psu) River Kilometer=15.5 Level=Surface
50
40
30
20
10
0
Percent
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=17.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	5.66447041	**Sum Observations**	1523.74254
Std Deviation	6.49225988	**Variance**	42.1494383
Skewness	1.11353878	**Kurtosis**	0.39953185
Uncorrected SS	19927.244	**Corrected SS**	11296.0495
Coeff Variation	114.613713	**Std Error Mean**	0.39584007

Basic Statistical Measures			
Location		**Variability**	
Mean	5.664470	**Std Deviation**	6.49226
Median	2.886580	**Variance**	42.14944
Mode	0.000000	**Range**	27.67000
		Interquartile Range	9.79000

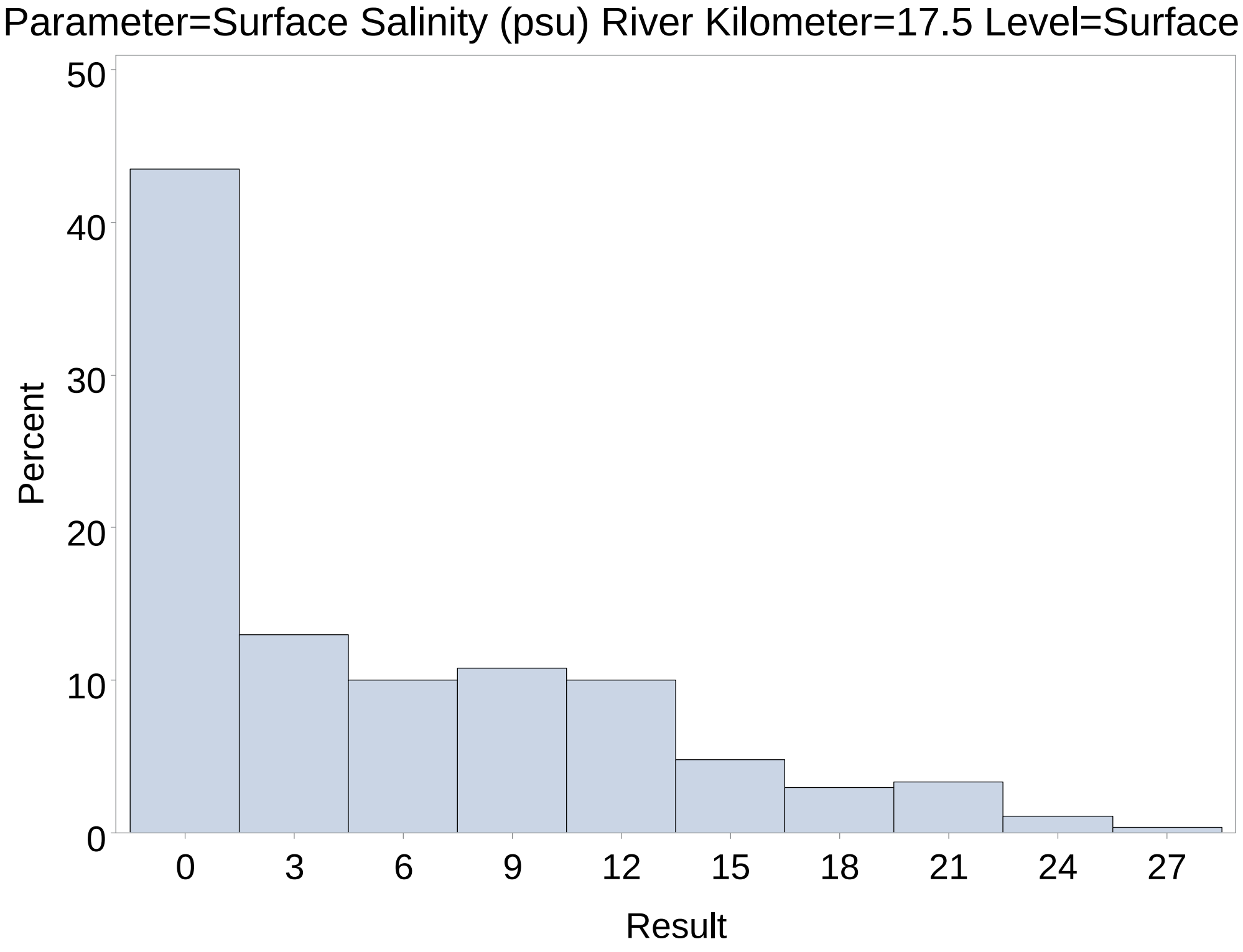
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.31	**Pr > |t|**	<.0001
Sign	**M**	126	**Pr >= |M|**	<.0001
Signed Rank	**S**	15939	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	27.67000
99%	24.52000
95%	19.44000
90%	15.26000
75% Q3	10.02000
50% Median	2.88658
25% Q1	0.23000
10%	0.11000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=17.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	74997	22.310	75208
0	74996	23.168	75004
0	74995	24.520	75016
0	74994	25.300	75100
0	74986	27.670	75148


Parameter=Surface Salinity (psu) River Kilometer=17.5 Level=Surface
Percent
50
40
30
20
10
0
0
3
6
9
12
15
18
21
24
27
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=20.1 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	4.15759605	**Sum Observations**	1118.39334
Std Deviation	5.44702857	**Variance**	29.6701202
Skewness	1.44849167	**Kurtosis**	1.40135995
Uncorrected SS	12601.4199	**Corrected SS**	7951.59222
Coeff Variation	131.013896	**Std Error Mean**	0.33211119

Basic Statistical Measures			
Location		**Variability**	
Mean	4.157596	**Std Deviation**	5.44703
Median	1.220000	**Variance**	29.67012
Mode	0.000000	**Range**	24.10000
		Interquartile Range	6.69000

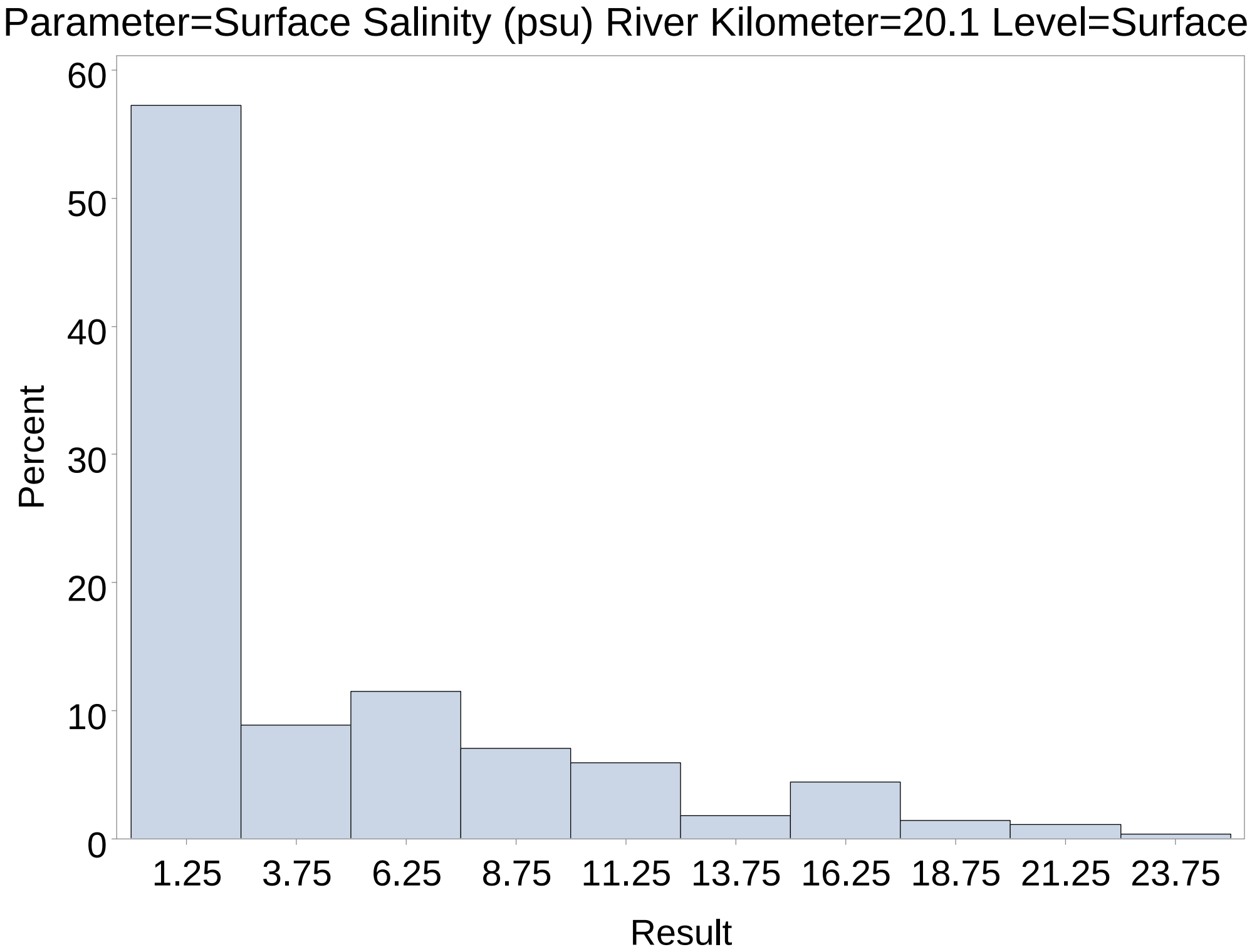
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.51869	**Pr > |t|**	<.0001
Sign	**M**	125.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	15813	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.10
99%	21.73
95%	17.20
90%	12.07
75% Q3	6.88
50% Median	1.22
25% Q1	0.19
10%	0.10
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=20.1 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	75266	19.0300	75477
0	75265	21.6166	75273
0	75264	21.7300	75285
0	75263	22.0700	75369
0	75262	24.1000	75417


Parameter=Surface Salinity (psu) River Kilometer=20.1 Level=Surface
60
50
40
30
20
10
0
Percent
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=21.9 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	2.53014065	**Sum Observations**	680.607835
Std Deviation	4.00587474	**Variance**	16.0470325
Skewness	2.07766008	**Kurtosis**	4.12009513
Uncorrected SS	6022.63825	**Corrected SS**	4300.6047
Coeff Variation	158.326168	**Std Error Mean**	0.24424249

Basic Statistical Measures			
Location		**Variability**	
Mean	2.530141	**Std Deviation**	4.00587
Median	0.340000	**Variance**	16.04703
Mode	0.000000	**Range**	21.45000
		Interquartile Range	3.15000

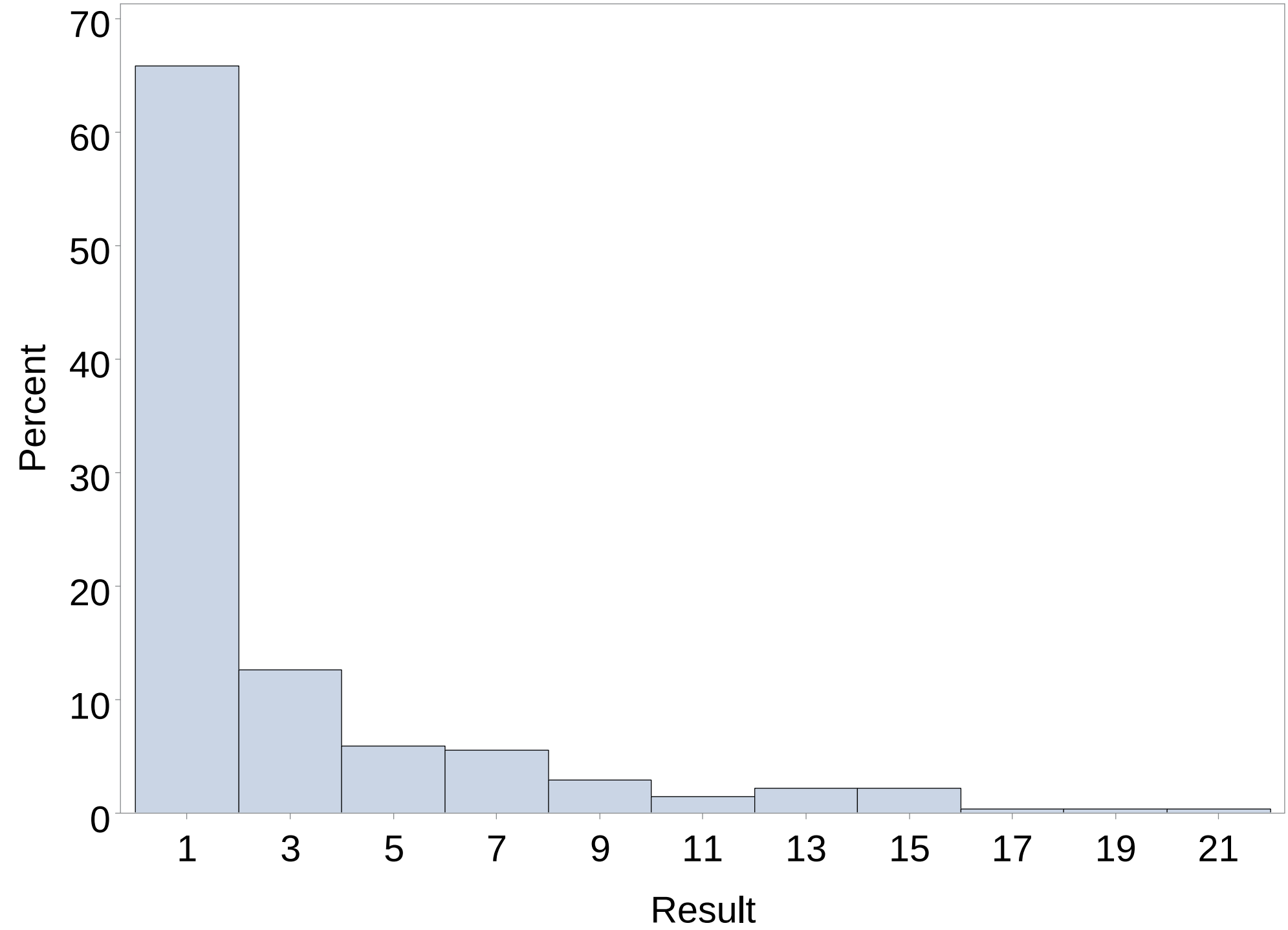
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.35913	**Pr > |t|**	<.0001
Sign	**M**	123	**Pr >= |M|**	<.0001
Signed Rank	**S**	15190.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	21.45
99%	16.04
95%	12.24
90%	8.03
75% Q3	3.32
50% Median	0.34
25% Q1	0.17
10%	0.07
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=21.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	75535	14.8600	75614
0	75534	15.3000	75554
0	75533	16.0400	75638
0	75532	18.7599	75542
0	75531	21.4500	75686


Parameter=Surface Salinity (psu) River Kilometer=21.9 Level=Surface
Percent
70
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
21
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=23.6 Level=Surface

Moments			
N	315	**Sum Weights**	315
Mean	1.76927027	**Sum Observations**	557.320137
Std Deviation	3.3526404	**Variance**	11.2401977
Skewness	2.72977434	**Kurtosis**	7.52100312
Uncorrected SS	4515.47202	**Corrected SS**	3529.42207
Coeff Variation	189.492835	**Std Error Mean**	0.18889989

Basic Statistical Measures			
Location		**Variability**	
Mean	1.769270	**Std Deviation**	3.35264
Median	0.260000	**Variance**	11.24020
Mode	0.000000	**Range**	18.04000
		Interquartile Range	1.43326

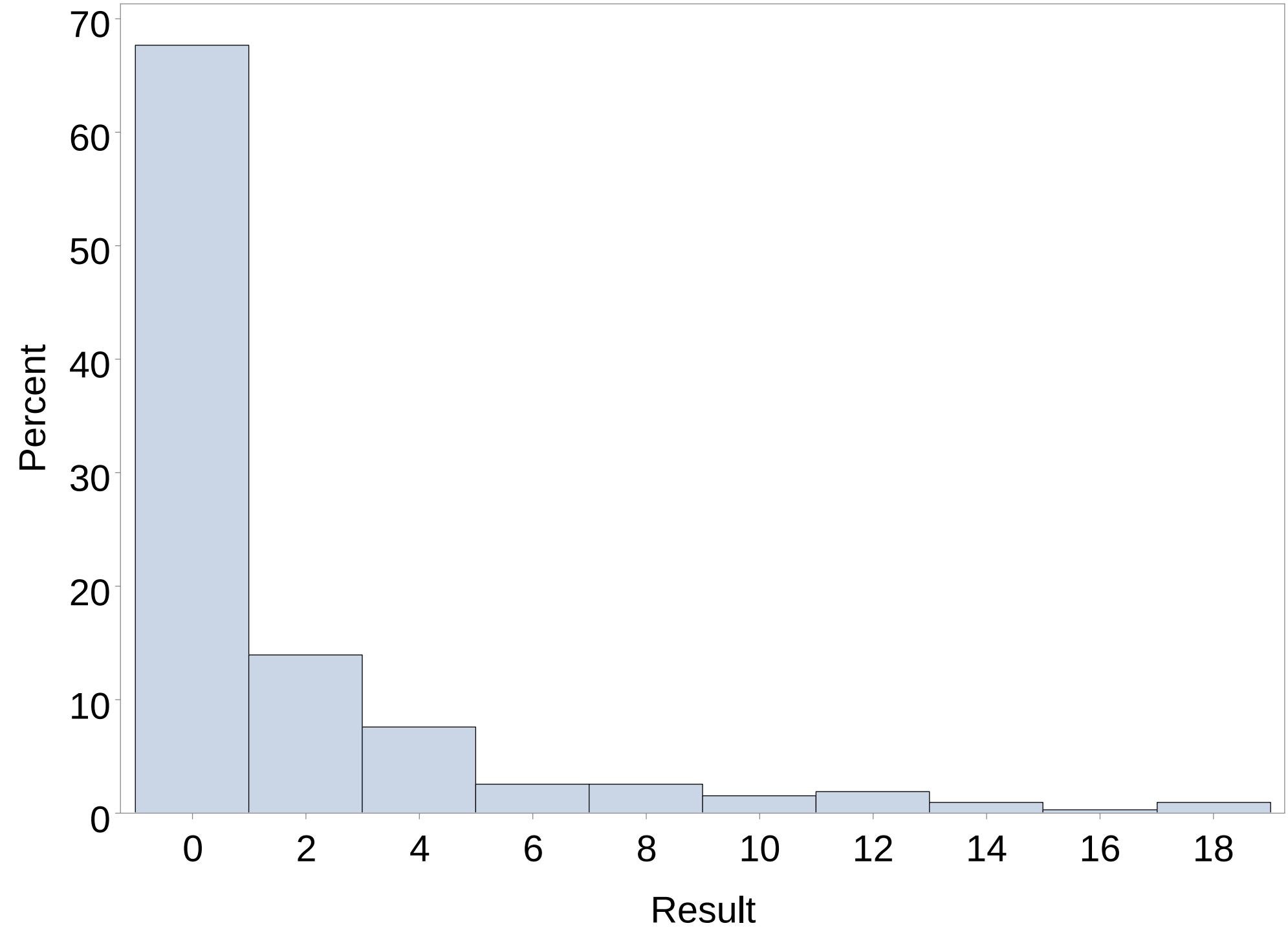
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.36618	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.04000
99%	16.07000
95%	10.42000
90%	5.46000
75% Q3	1.57326
50% Median	0.26000
25% Q1	0.14000
10%	0.00000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	75844	13.8600	75869
0	75843	16.0700	75953
0	75842	17.1785	75856
0	75841	17.7268	75855
0	75840	18.0400	76001


Parameter=Surface Salinity (psu) River Kilometer=23.6 Level=Surface
Percent
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=24.7 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	1.3563526	**Sum Observations**	364.858849
Std Deviation	2.76616044	**Variance**	7.6516436
Skewness	3.14200739	**Kurtosis**	10.3580937
Uncorrected SS	2545.51773	**Corrected SS**	2050.64048
Coeff Variation	203.941102	**Std Error Mean**	0.16865578

Basic Statistical Measures			
Location		**Variability**	
Mean	1.356353	**Std Deviation**	2.76616
Median	0.250000	**Variance**	7.65164
Mode	0.000000	**Range**	16.41000
		Interquartile Range	0.72000

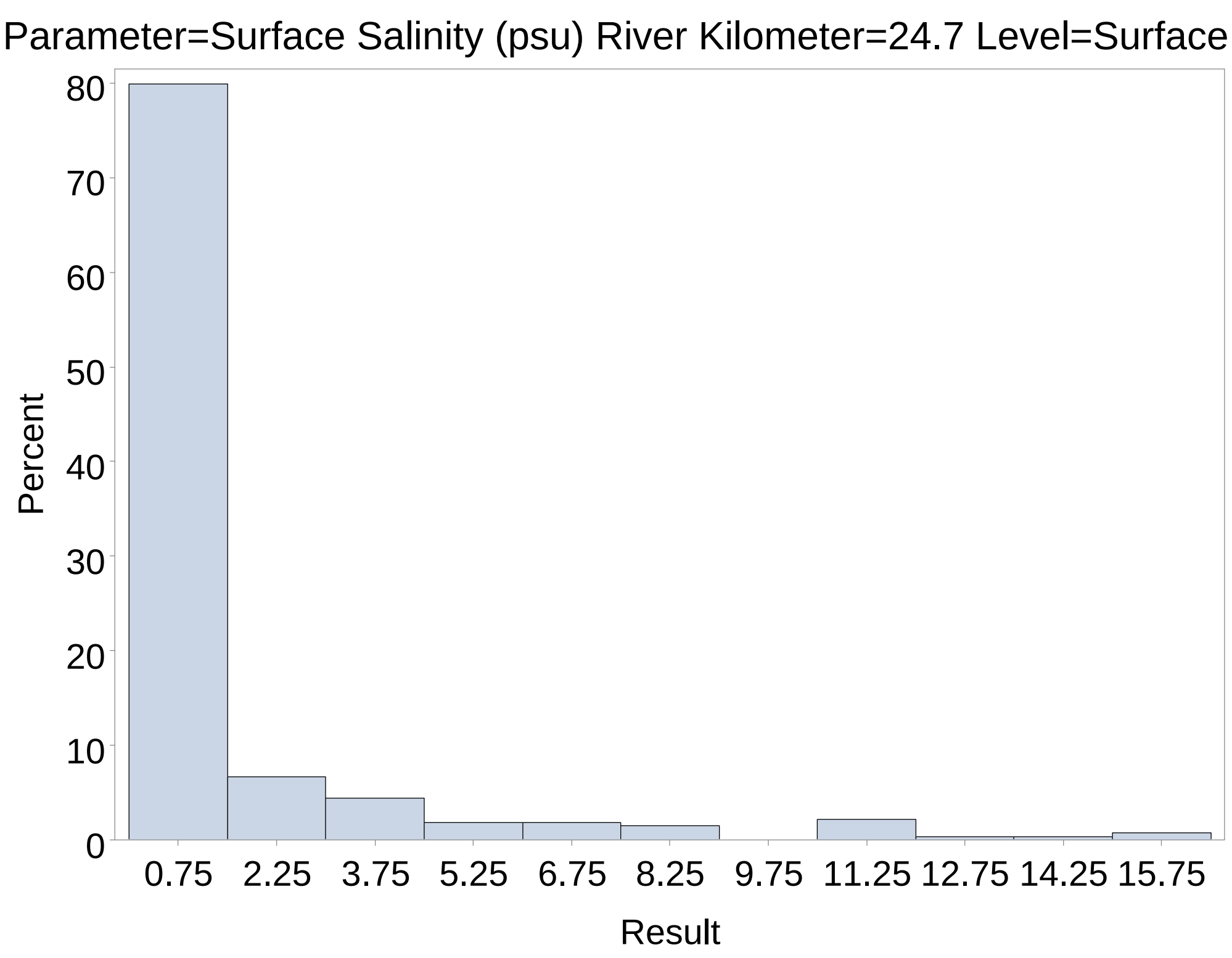
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.042135	**Pr > |t|**	<.0001
Sign	**M**	121.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14823	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.4100000
99%	14.0600000
95%	7.9400000
90%	4.2300000
75% Q3	0.8700000
50% Median	0.2500000
25% Q1	0.1500000
10%	0.0237396
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=24.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	76120	11.4500	76138
0	76119	12.2700	76233
0	76118	14.0600	76222
0	76117	15.8845	76126
0	76116	16.4100	76270


Parameter=Surface Salinity (psu) River Kilometer=24.7 Level=Surface
Percent
80
70
60
50
40
30
20
10
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=25.9 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	0.94336535	**Sum Observations**	252.821915
Std Deviation	2.12142444	**Variance**	4.50044165
Skewness	3.72585545	**Kurtosis**	15.0112009
Uncorrected SS	1440.12136	**Corrected SS**	1201.61792
Coeff Variation	224.87835	**Std Error Mean**	0.12958662

Basic Statistical Measures			
Location		**Variability**	
Mean	0.943365	**Std Deviation**	2.12142
Median	0.230000	**Variance**	4.50044
Mode	0.000000	**Range**	13.79919
		Interquartile Range	0.32500

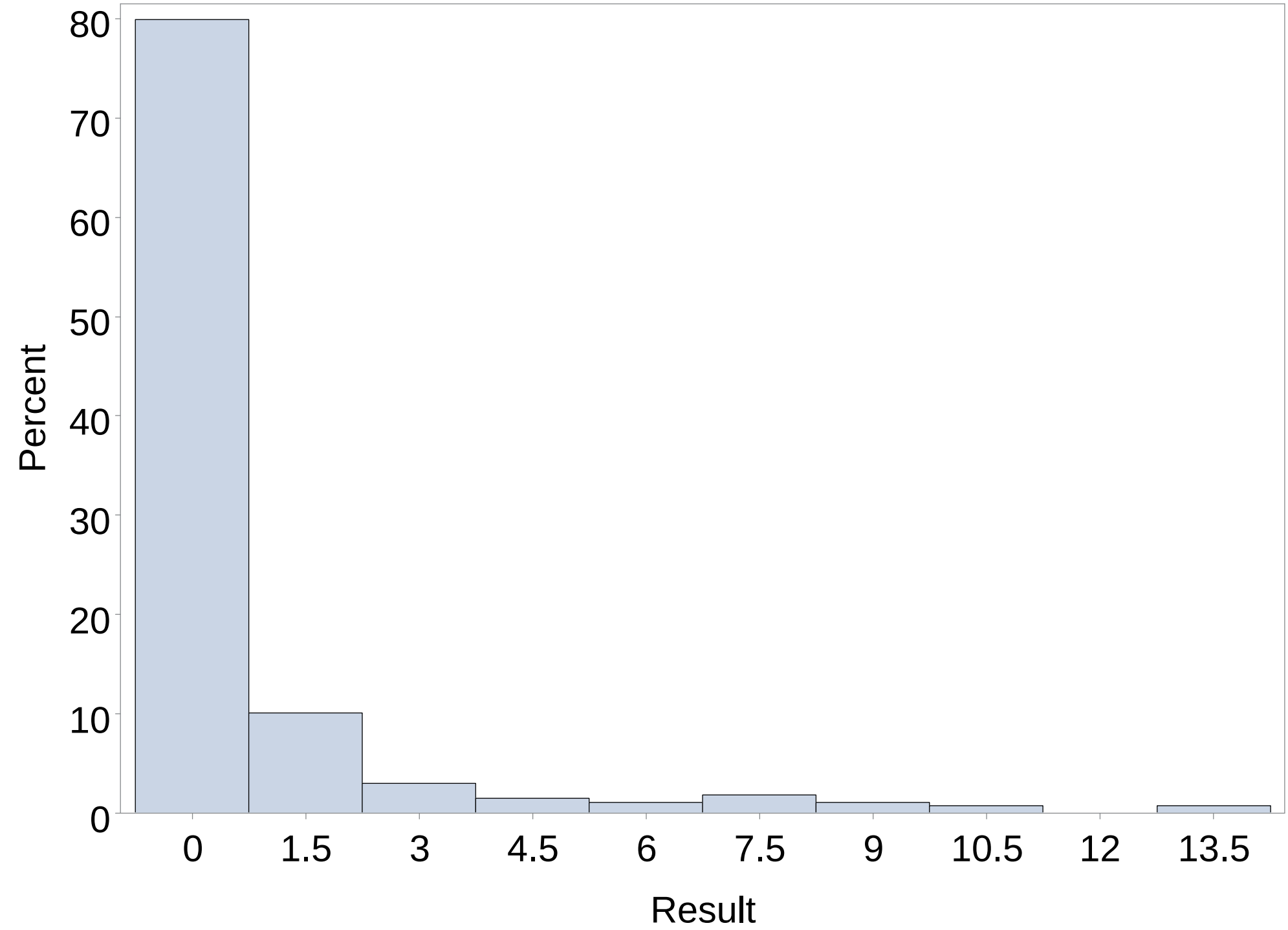
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.279805	**Pr > |t|**	<.0001
Sign	**M**	119.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14340	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.7992
99%	10.8000
95%	6.2400
90%	2.5100
75% Q3	0.4650
50% Median	0.2300
25% Q1	0.1400
10%	0.0000
5%	0.0000
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=25.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	76389	9.2500	76406
0	76388	10.7700	76490
0	76387	10.8000	76501
0	76386	13.7900	76538
0	76385	13.7992	76394


Parameter=Surface Salinity (psu) River Kilometer=25.9 Level=Surface
Percent
80
70
60
50
40
30
20
10
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=29.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	0.42988806	**Sum Observations**	115.639887
Std Deviation	0.9353195	**Variance**	0.87482256
Skewness	5.50647714	**Kurtosis**	35.084714
Uncorrected SS	284.164653	**Corrected SS**	234.452447
Coeff Variation	217.572804	**Std Error Mean**	0.05702744

Basic Statistical Measures			
Location		**Variability**	
Mean	0.429888	**Std Deviation**	0.93532
Median	0.220000	**Variance**	0.87482
Mode	0.000000	**Range**	8.02224
		Interquartile Range	0.19000

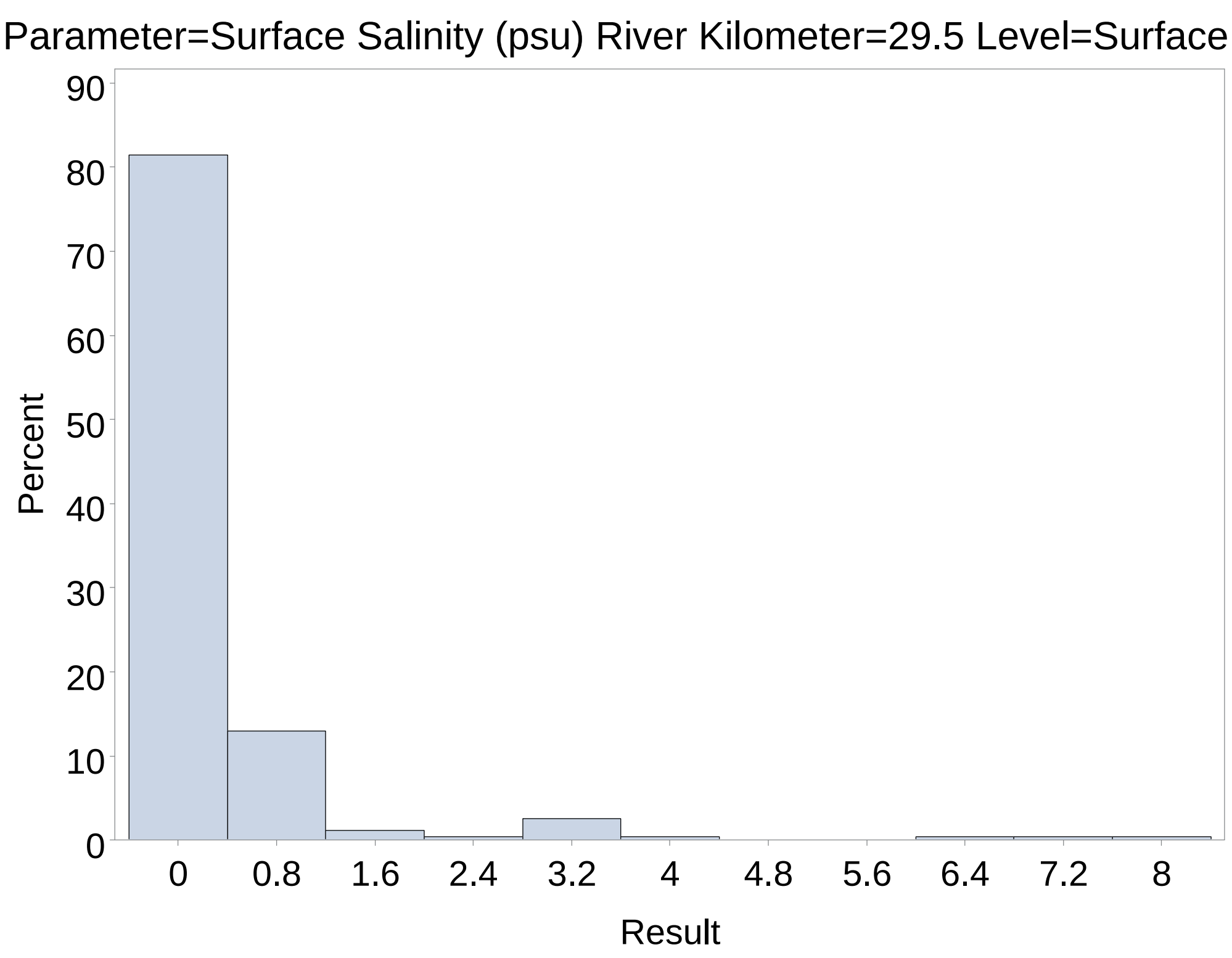
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.538267	**Pr > |t|**	<.0001
Sign	**M**	118	**Pr >= |M|**	<.0001
Signed Rank	**S**	13983	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.02224
99%	6.22000
95%	1.61801
90%	0.59000
75% Q3	0.33000
50% Median	0.22000
25% Q1	0.14000
10%	0.00000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=29.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	76658	3.56000	76796
0	76657	4.05000	76735
0	76656	6.22000	76759
0	76655	7.56000	76807
0	76654	8.02224	76663


Parameter=Surface Salinity (psu) River Kilometer=29.5 Level=Surface
Percent
90
80
70
60
50
40
30
20
10
0
0
0.8
1.6
2.4
3.2
4
4.8
5.6
6.4
7.2
8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=30.7 Level=Surface

Moments			
N	316	**Sum Weights**	316
Mean	0.3436875	**Sum Observations**	108.60525
Std Deviation	0.76554169	**Variance**	0.58605408
Skewness	6.05095644	**Kurtosis**	43.0217303
Uncorrected SS	221.933302	**Corrected SS**	184.607035
Coeff Variation	222.743536	**Std Error Mean**	0.04306508

Basic Statistical Measures			
Location		**Variability**	
Mean	0.343687	**Std Deviation**	0.76554
Median	0.200000	**Variance**	0.58605
Mode	0.000000	**Range**	7.14700
		Interquartile Range	0.25138

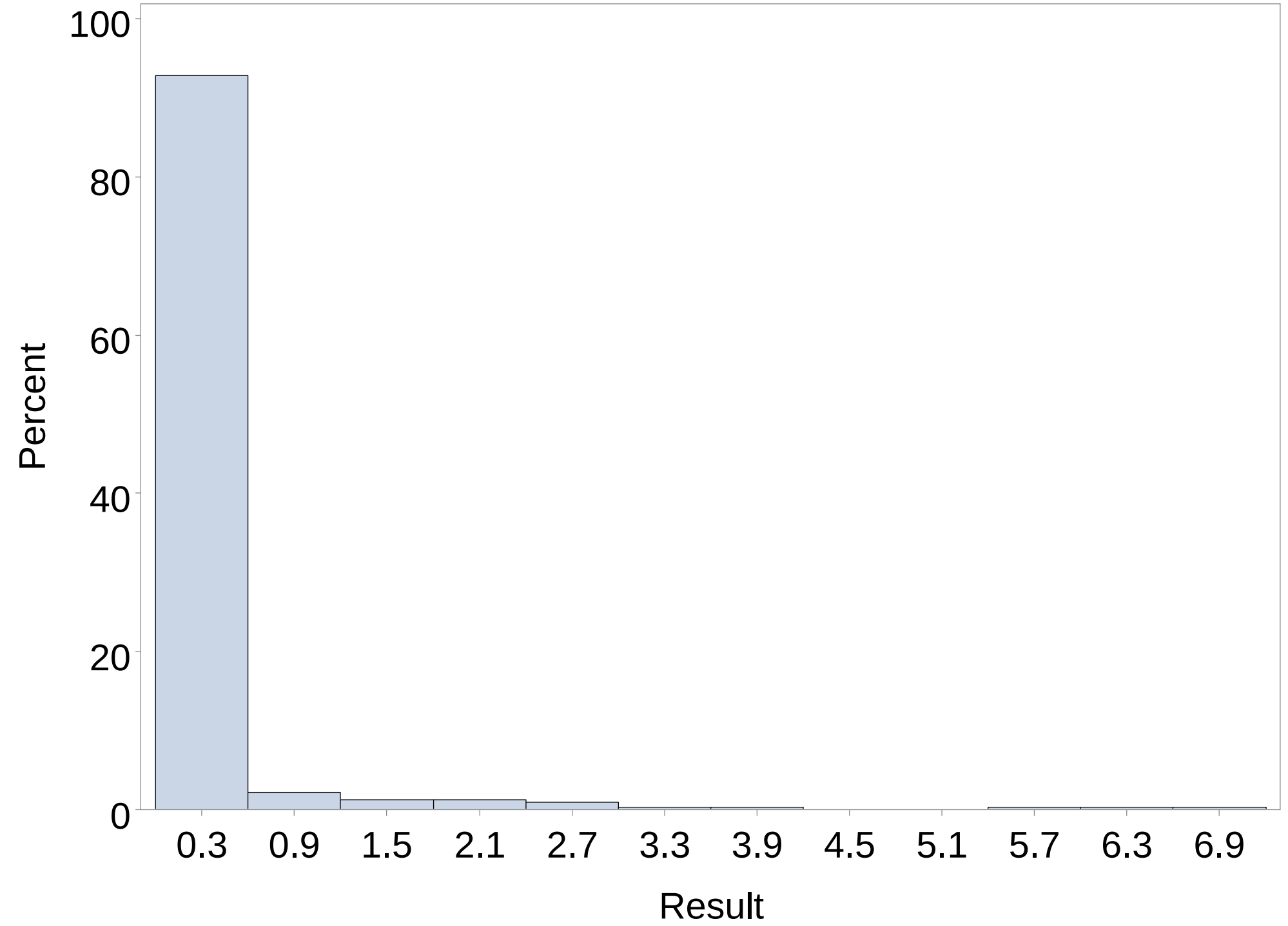
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.980653	**Pr > |t|**	<.0001
Sign	**M**	124.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	15562.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.1469986
99%	4.1400000
95%	1.2200000
90%	0.5000000
75% Q3	0.3000000
50% Median	0.2000000
25% Q1	0.0486167
10%	0.0000000
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	76968	3.0400	77112
0	76966	4.1400	77075
0	76965	5.7100	77123
0	76964	6.5899	76978
0	76963	7.1470	76977


Parameter=Surface Salinity (psu) River Kilometer=30.7 Level=Surface
100
80
60
40
20
0
Percent
0.3
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
5.7
6.3
6.9
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=32.3 Level=Surface

Moments			
N	266	**Sum Weights**	266
Mean	0.29021485	**Sum Observations**	77.1971505
Std Deviation	0.44487232	**Variance**	0.19791138
Skewness	6.61457255	**Kurtosis**	54.989433
Uncorrected SS	74.8502759	**Corrected SS**	52.4465163
Coeff Variation	153.290681	**Std Error Mean**	0.02727687

Basic Statistical Measures			
Location		**Variability**	
Mean	0.290215	**Std Deviation**	0.44487
Median	0.210000	**Variance**	0.19791
Mode	0.000000	**Range**	4.76673
		Interquartile Range	0.17000

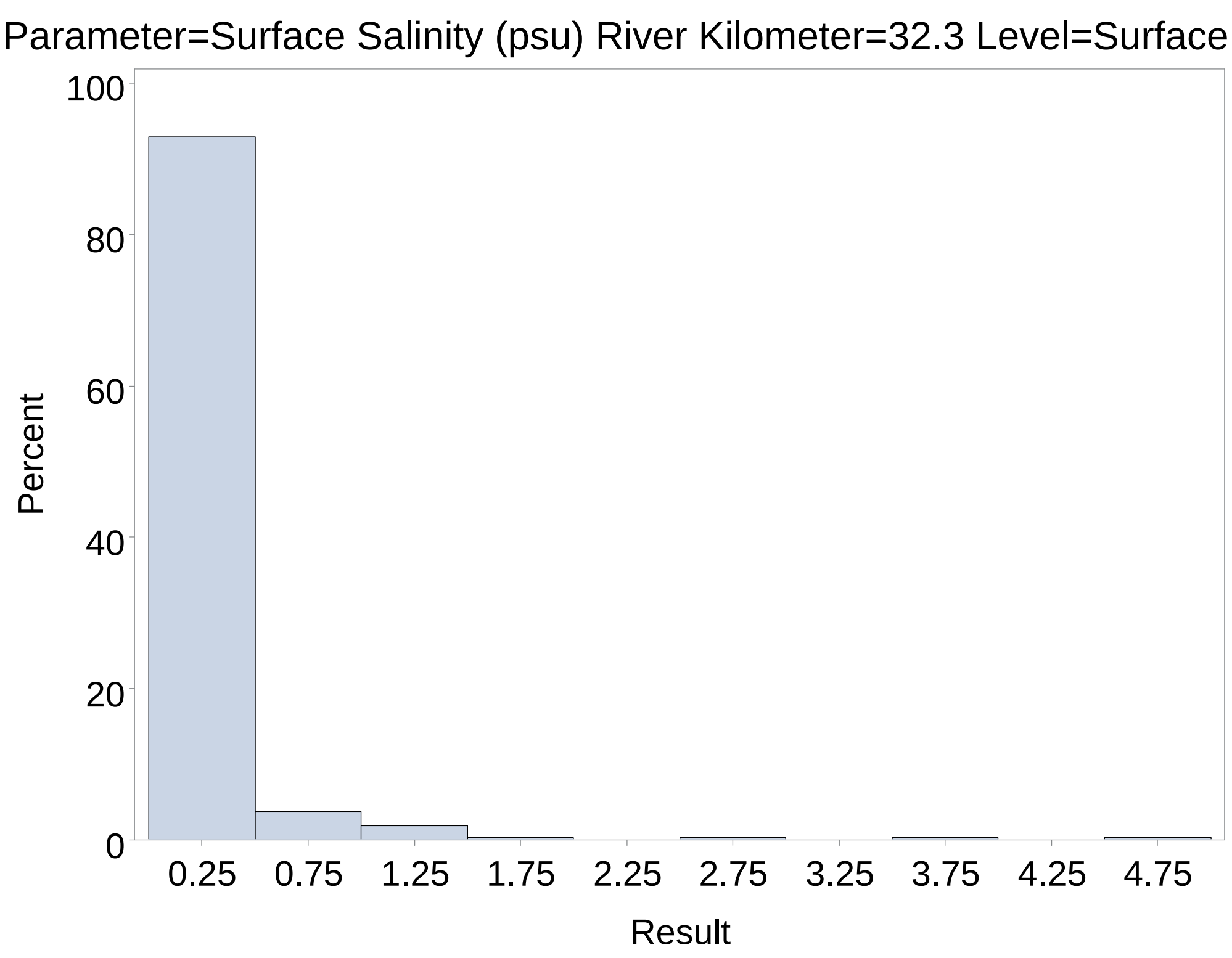
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.63959	**Pr > |t|**	<.0001
Sign	**M**	117	**Pr >= |M|**	<.0001
Signed Rank	**S**	13747.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.76673
99%	2.73000
95%	0.63000
90%	0.45000
75% Q3	0.31000
50% Median	0.21000
25% Q1	0.14000
10%	0.00000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Salinity (psu) River Kilometer=32.3 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	77241	1.47000	77352
0	77240	1.58000	77317
0	77239	2.73000	77341
0	77238	3.74000	77389
0	77237	4.76673	77246


Parameter=Surface Salinity (psu) River Kilometer=32.3 Level=Surface
100
80
60
40
20
0
Percent
0.25
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	2.57327341	**Sum Observations**	687.064
Std Deviation	2.26426528	**Variance**	5.12689727
Skewness	1.29661149	**Kurtosis**	1.33305062
Uncorrected SS	3131.7582	**Corrected SS**	1363.75468
Coeff Variation	87.9916326	**Std Error Mean**	0.13857078

Basic Statistical Measures			
Location		**Variability**	
Mean	2.573273	**Std Deviation**	2.26427
Median	1.820000	**Variance**	5.12690
Mode	1.400000	**Range**	12.05600
		Interquartile Range	2.82600

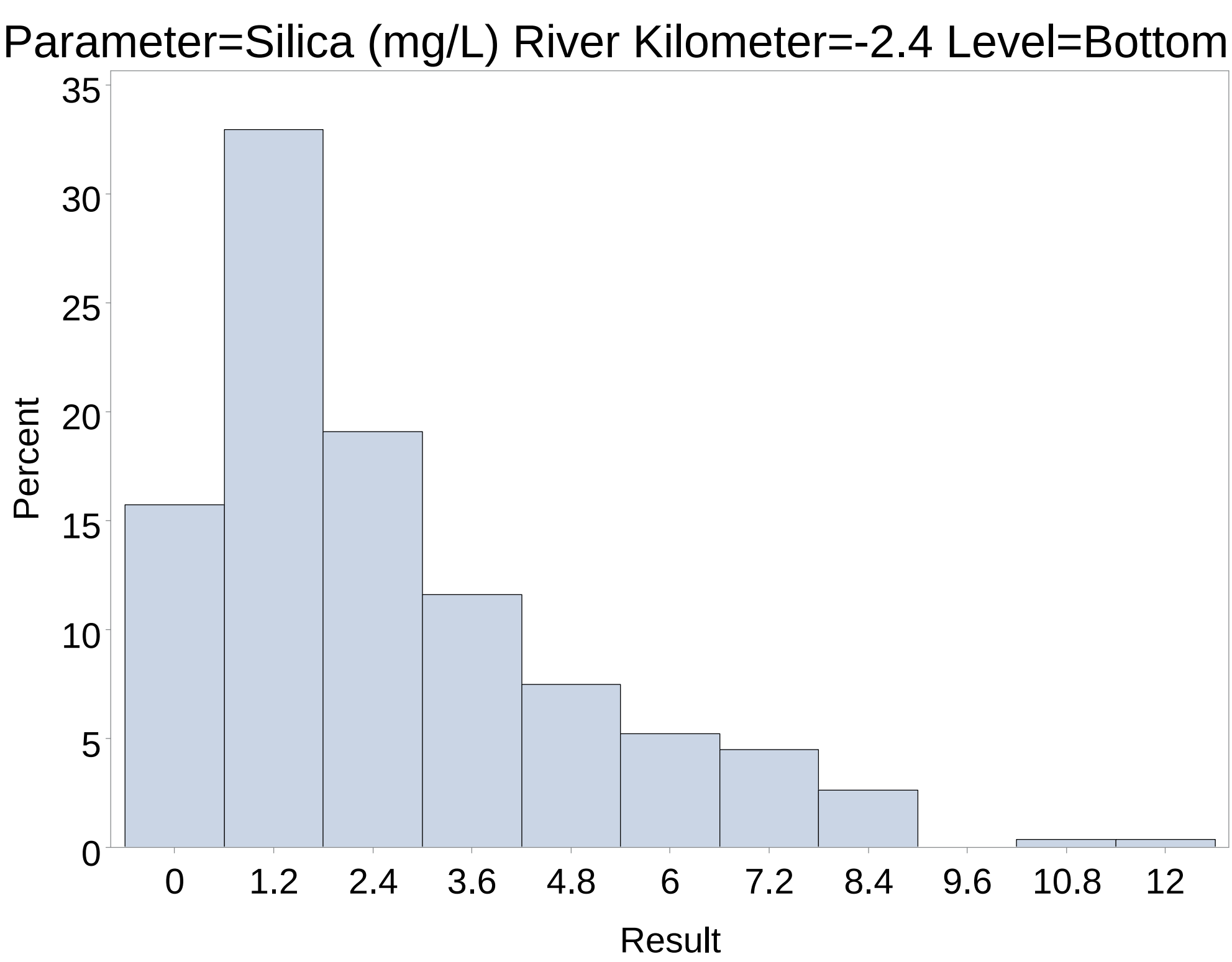
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.5701	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.100
99%	8.920
95%	7.270
90%	6.090
75% Q3	3.690
50% Median	1.820
25% Q1	0.864
10%	0.411
5%	0.200
1%	0.053
0% Min	0.044

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.044	77680	8.50	77695
0.044	77625	8.85	77647
0.053	77533	8.92	77601
0.065	77712	10.20	77719
0.073	77679	12.10	77670


Parameter=Silica (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	2.75400375	**Sum Observations**	735.319
Std Deviation	2.47753159	**Variance**	6.13816278
Skewness	1.19350095	**Kurtosis**	0.91261214
Uncorrected SS	3657.82258	**Corrected SS**	1632.7513
Coeff Variation	89.9610828	**Std Error Mean**	0.15162247

Basic Statistical Measures			
Location		**Variability**	
Mean	2.754004	**Std Deviation**	2.47753
Median	2.010000	**Variance**	6.13816
Mode	1.300000	**Range**	11.79000
		Interquartile Range	2.98700

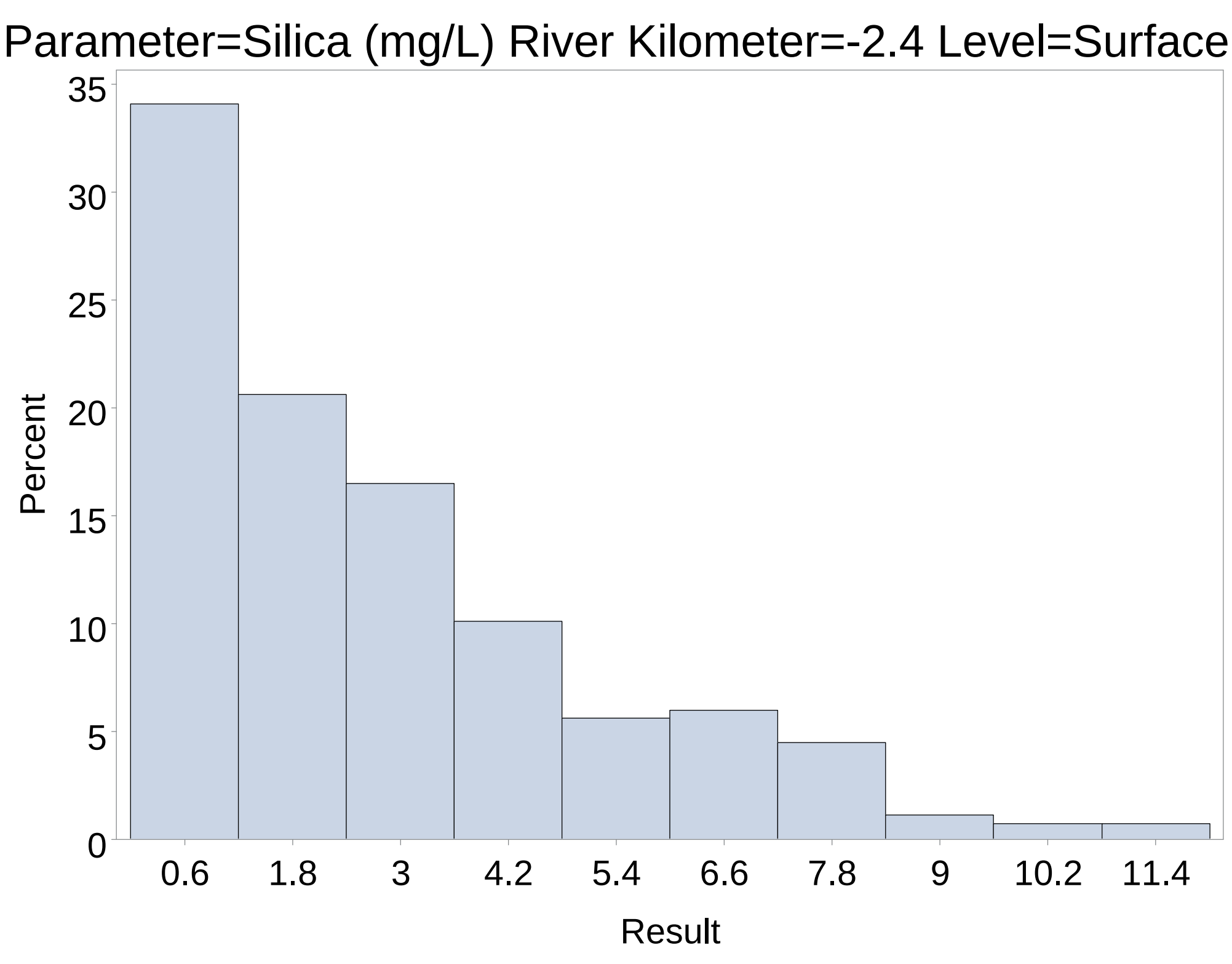
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.16356	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.800
99%	10.400
95%	7.880
90%	6.600
75% Q3	3.800
50% Median	2.010
25% Q1	0.813
10%	0.297
5%	0.154
1%	0.044
0% Min	0.010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	77782	9.16	77891
0.040	77739	9.60	77962
0.044	77892	10.40	77987
0.050	77800	11.50	77937
0.065	77979	11.80	77986


Parameter=Silica (mg/L) River Kilometer=-2.4 Level=Surface
Percent
35
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	3.23818284	**Sum Observations**	867.833
Std Deviation	2.53515786	**Variance**	6.42702539
Skewness	0.88012396	**Kurtosis**	-0.051337
Uncorrected SS	4526.2177	**Corrected SS**	1716.01578
Coeff Variation	78.289522	**Std Error Mean**	0.15485941

Basic Statistical Measures			
Location		**Variability**	
Mean	3.238183	**Std Deviation**	2.53516
Median	2.410000	**Variance**	6.42703
Mode	2.100000	**Range**	11.81400
		Interquartile Range	3.61000

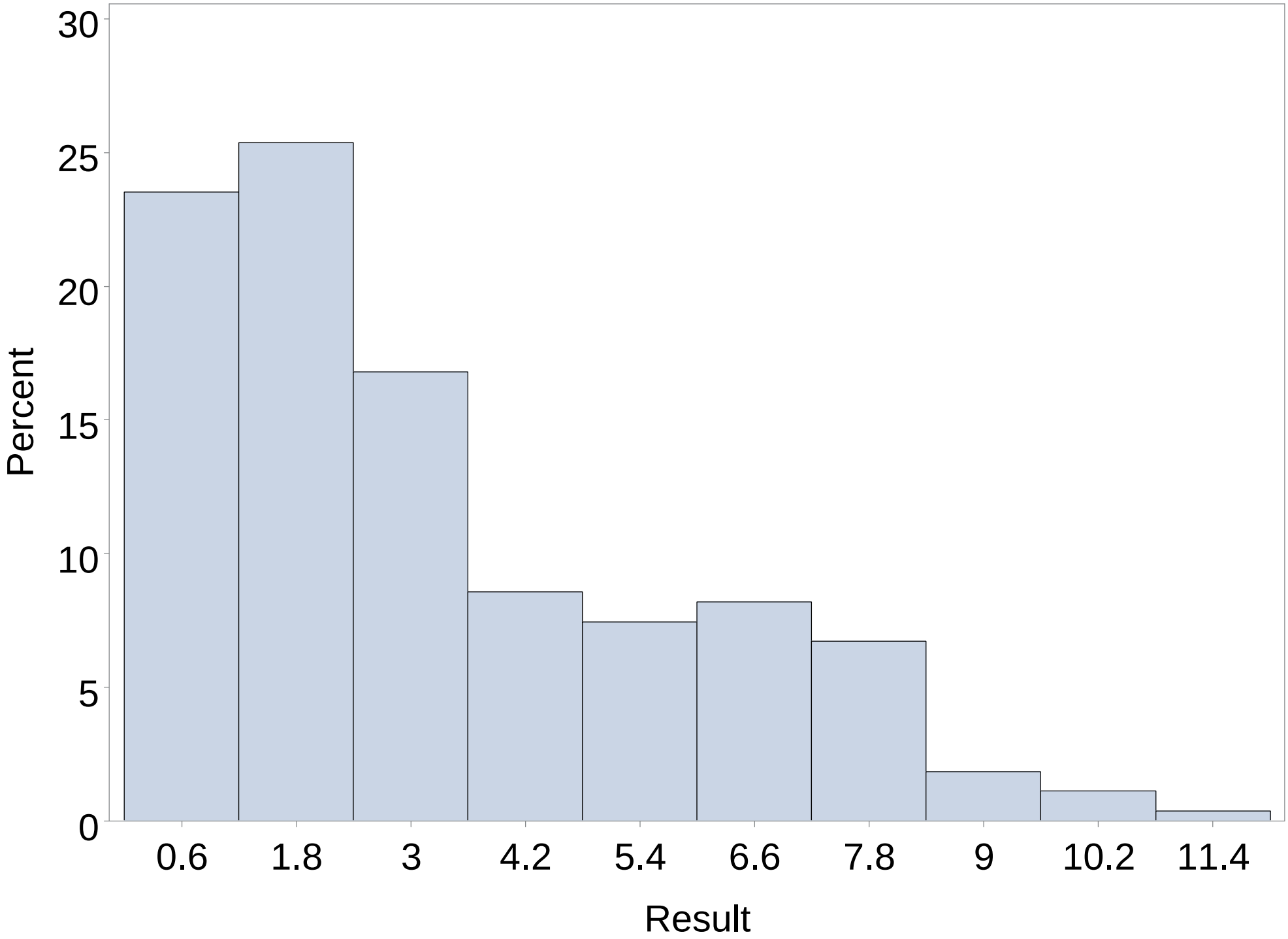
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.91047	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.900
99%	9.920
95%	7.820
90%	7.220
75% Q3	4.910
50% Median	2.410
25% Q1	1.300
10%	0.459
5%	0.237
1%	0.100
0% Min	0.086

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.086	78247	9.40	78230
0.100	78070	9.85	78182
0.100	78036	9.92	78254
0.100	78034	10.30	78183
0.129	78211	11.90	78205


Parameter=Silica (mg/L) River Kilometer=6.6 Level=Bottom
Percent
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	3.57695522	**Sum Observations**	958.624
Std Deviation	2.79341065	**Variance**	7.80314306
Skewness	0.87561949	**Kurtosis**	0.02139616
Uncorrected SS	5512.39432	**Corrected SS**	2083.4392
Coeff Variation	78.0946497	**Std Error Mean**	0.17063471

Basic Statistical Measures			
Location		**Variability**	
Mean	3.576955	**Std Deviation**	2.79341
Median	2.810000	**Variance**	7.80314
Mode	0.100000	**Range**	12.79000
		Interquartile Range	3.76500

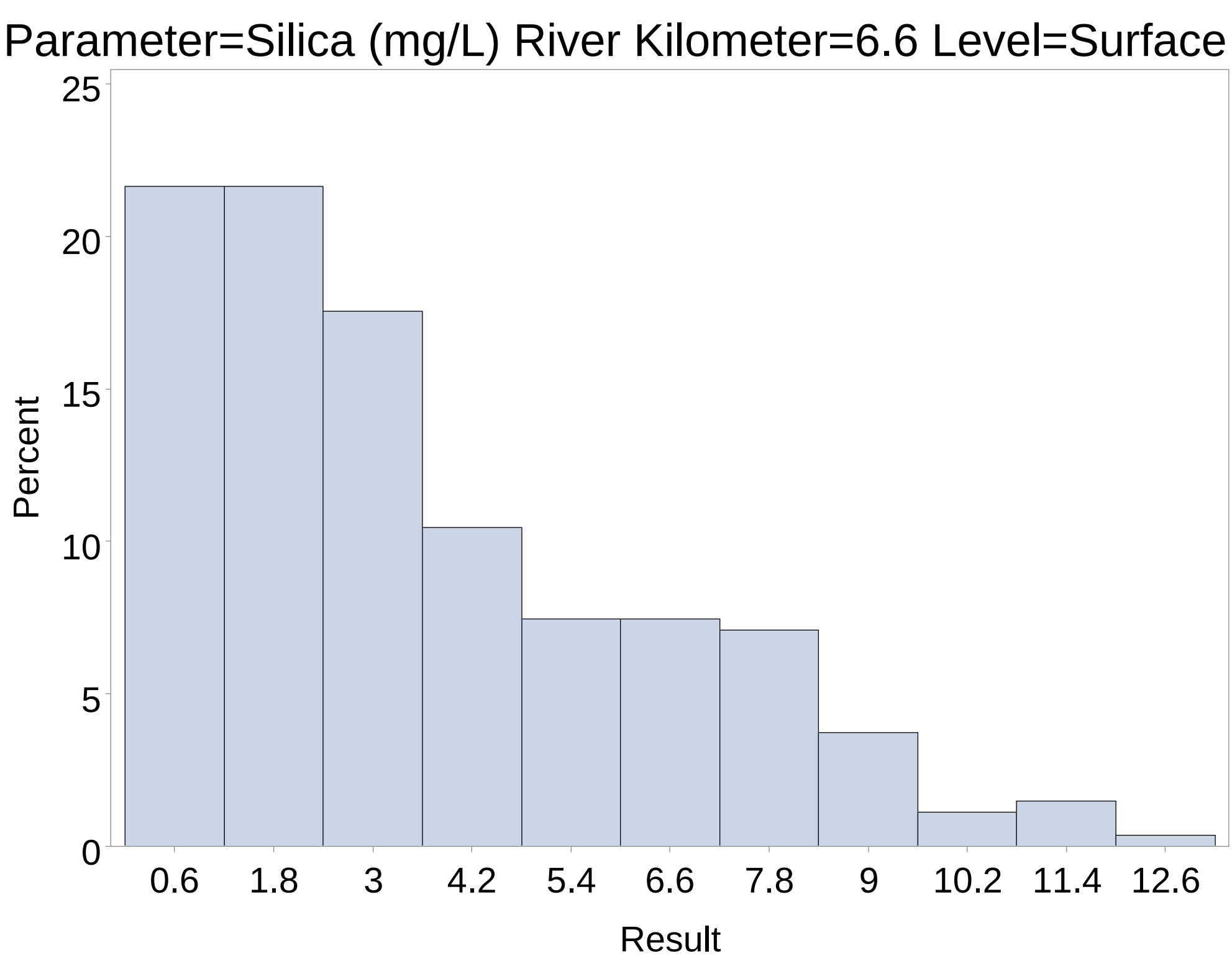
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.96265	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.800
99%	11.300
95%	8.750
90%	8.000
75% Q3	5.250
50% Median	2.810
25% Q1	1.485
10%	0.480
5%	0.181
1%	0.062
0% Min	0.010

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.010	78317	10.8	78427
0.060	78316	11.1	78521
0.062	78329	11.3	78523
0.090	78302	11.4	78473
0.100	78338	12.8	78520


Parameter=Silica (mg/L) River Kilometer=6.6 Level=Surface
25
20
15
10
5
0
Percent
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	5.15954851	**Sum Observations**	1382.759
Std Deviation	2.78332976	**Variance**	7.74692453
Skewness	0.54905056	**Kurtosis**	-0.0106847
Uncorrected SS	9202.84098	**Corrected SS**	2068.42885
Coeff Variation	53.9452193	**Std Error Mean**	0.17001892

Basic Statistical Measures			
Location		**Variability**	
Mean	5.159549	**Std Deviation**	2.78333
Median	4.800000	**Variance**	7.74692
Mode	5.200000	**Range**	14.90000
		Interquartile Range	4.13500

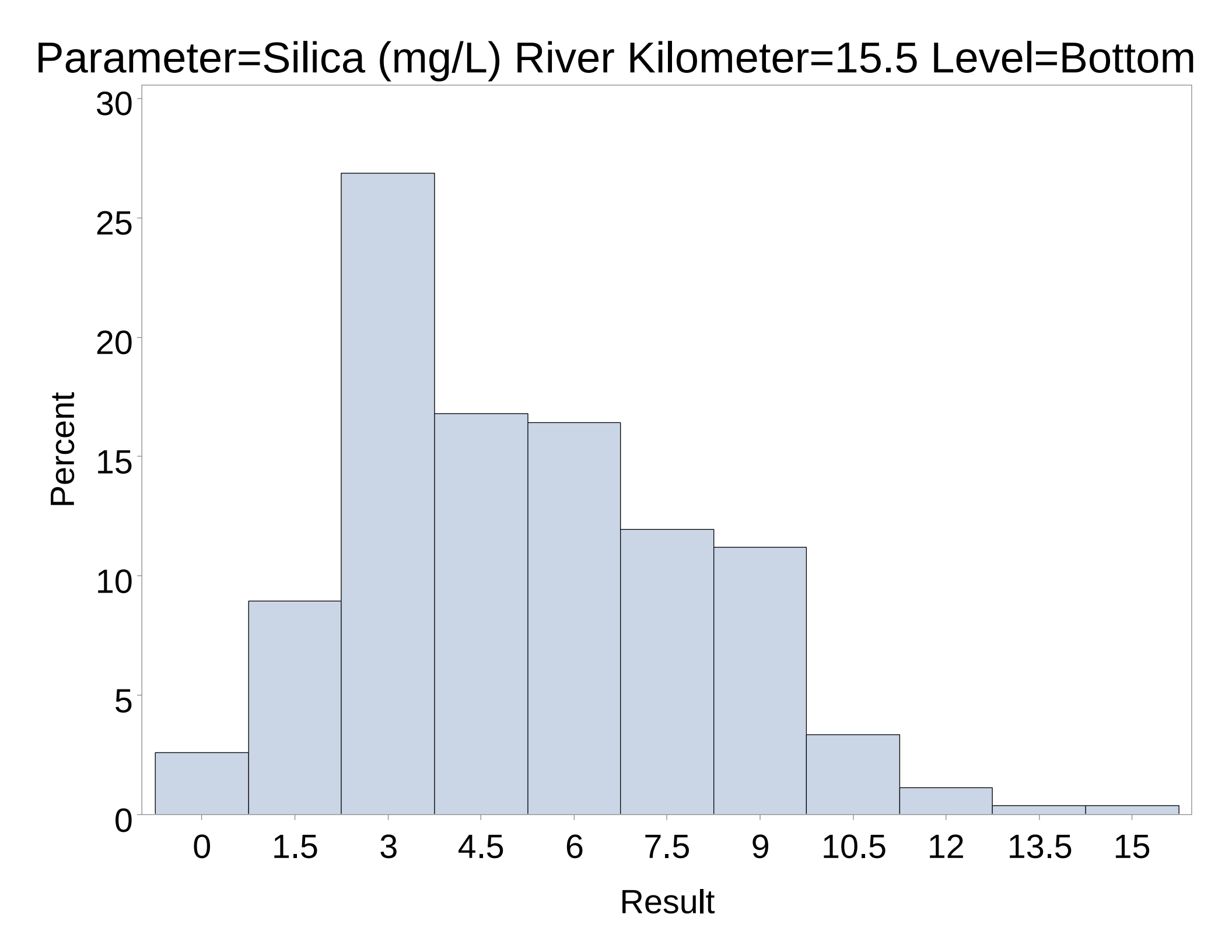
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.34691	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.000
99%	12.700
95%	9.800
90%	8.840
75% Q3	7.065
50% Median	4.800
25% Q1	2.930
10%	1.980
5%	1.100
1%	0.259
0% Min	0.100

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.100	78605	11.6	78791
0.200	78583	12.0	78776
0.259	78762	12.7	78789
0.300	78560	13.7	78792
0.341	78712	15.0	78788


Parameter=Silica (mg/L) River Kilometer=15.5 Level=Bottom
Percent
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	5.37544981	**Sum Observations**	1445.996
Std Deviation	2.77508432	**Variance**	7.70109298
Skewness	0.53329621	**Kurtosis**	-0.1060818
Uncorrected SS	9836.77185	**Corrected SS**	2063.89292
Coeff Variation	51.6251554	**Std Error Mean**	0.16919988

Basic Statistical Measures			
Location		**Variability**	
Mean	5.375450	**Std Deviation**	2.77508
Median	5.150000	**Variance**	7.70109
Mode	2.430000	**Range**	15.20000
		Interquartile Range	3.99000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

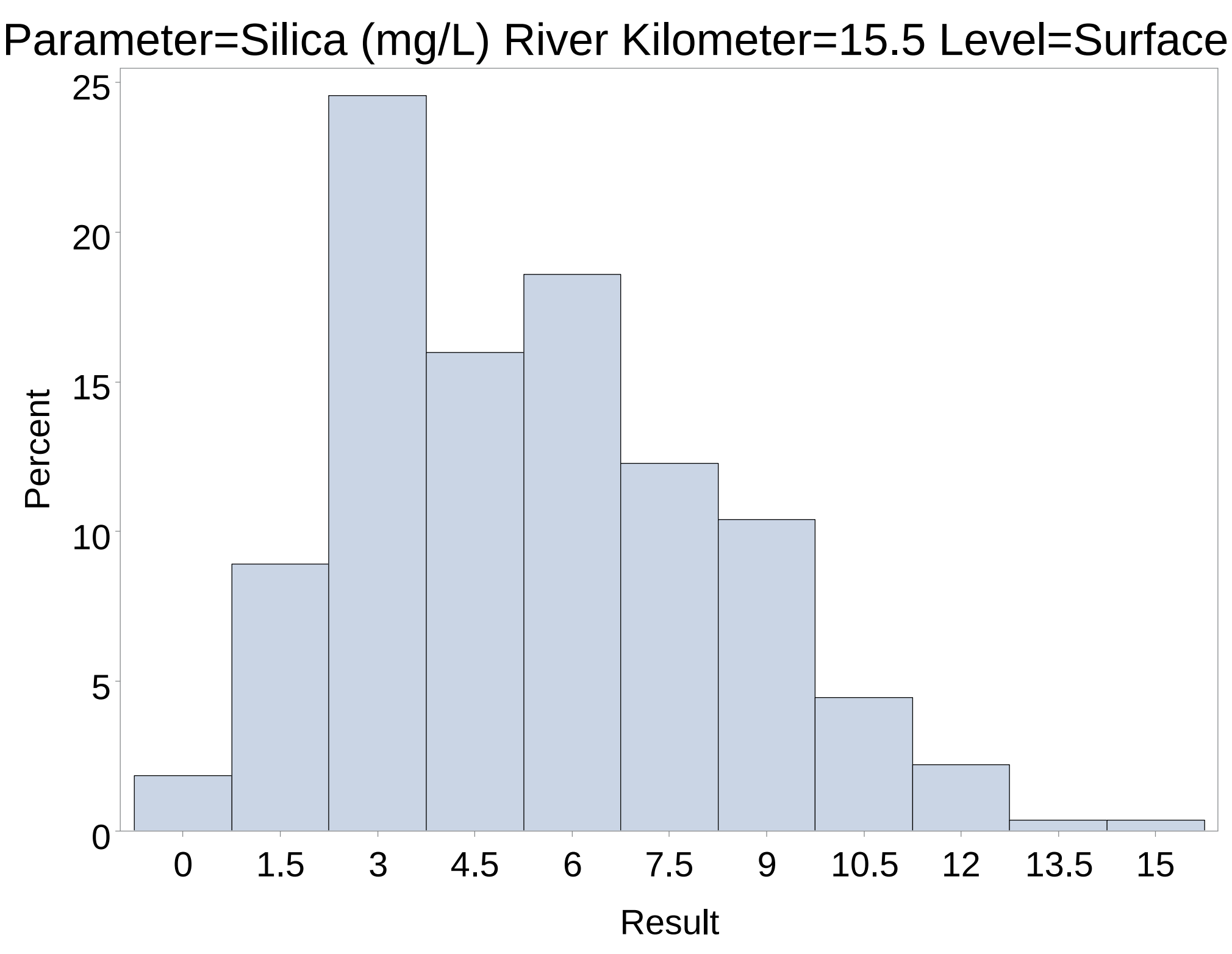
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.76982	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.30
99%	12.20
95%	10.40
90%	9.05
75% Q3	7.12
50% Median	5.15
25% Q1	3.13
10%	2.16
5%	1.60
1%	0.40
0% Min	0.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.100	78874	11.7	79010
0.200	78852	12.1	78988
0.400	78851	12.2	79061
0.628	78872	12.8	79058
0.700	78829	15.3	79057


Parameter=Silica (mg/L) River Kilometer=15.5 Level=Surface
Percent
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	6.11568284	**Sum Observations**	1639.003
Std Deviation	2.92645833	**Variance**	8.56415834
Skewness	0.24116226	**Kurtosis**	-0.4022278
Uncorrected SS	12310.2528	**Corrected SS**	2286.63028
Coeff Variation	47.851702	**Std Error Mean**	0.17876189

Basic Statistical Measures			
Location		**Variability**	
Mean	6.115683	**Std Deviation**	2.92646
Median	6.100000	**Variance**	8.56416
Mode	3.700000	**Range**	15.15000
		Interquartile Range	4.30500

Note: The mode displayed is the smallest of 2 modes with a count of 4.

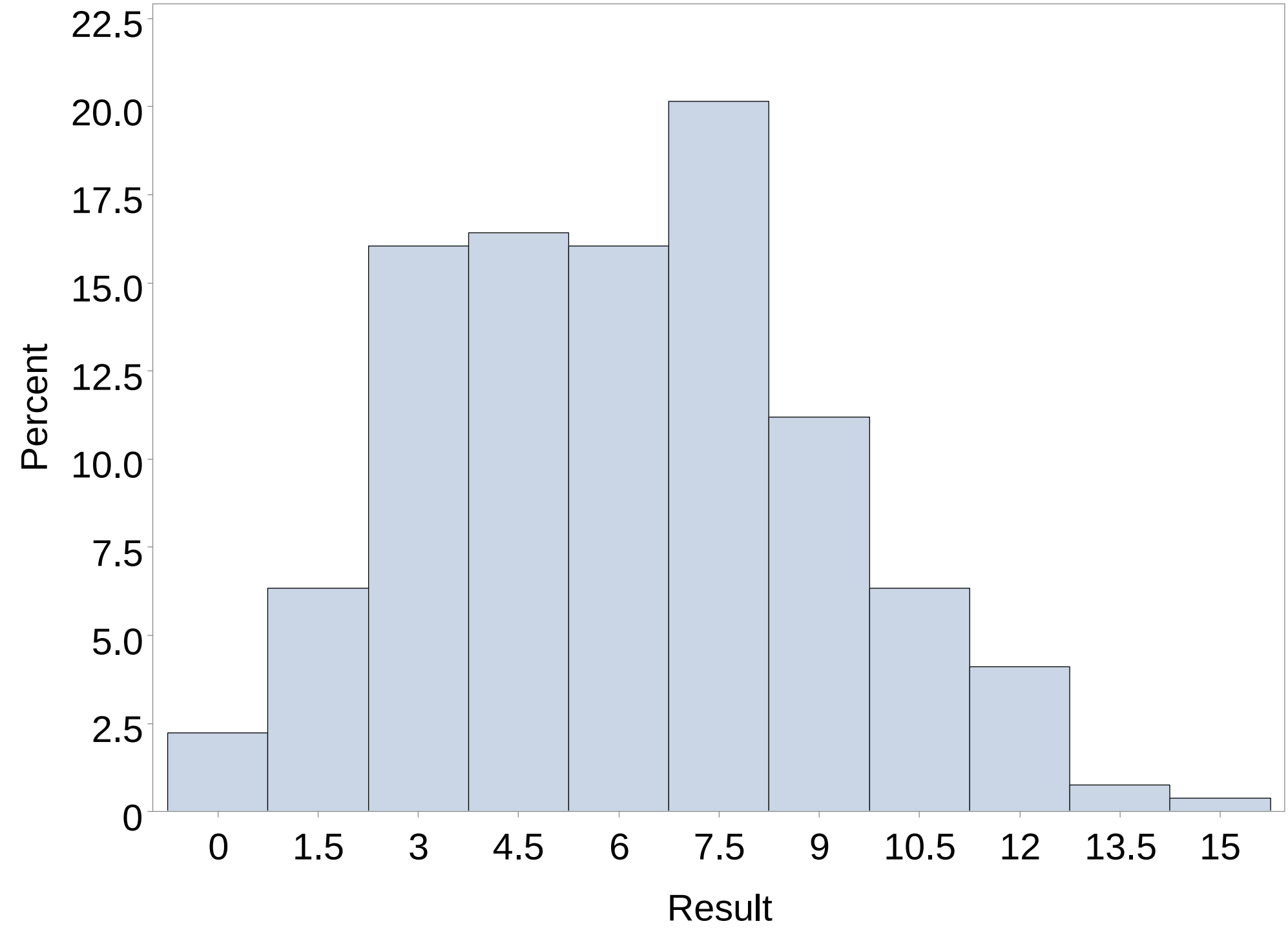
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.21133	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.200
99%	12.800
95%	11.400
90%	10.000
75% Q3	8.085
50% Median	6.100
25% Q1	3.780
10%	2.430
5%	1.800
1%	0.138
0% Min	0.050

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	79137	12.4	79256
0.082	79129	12.4	79300
0.138	79140	12.8	79281
0.272	79299	13.1	79326
0.635	79128	15.2	79325


Parameter=Silica (mg/L) River Kilometer=23.6 Level=Bottom
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	6.1608513	**Sum Observations**	1657.269
Std Deviation	2.8920149	**Variance**	8.36375019
Skewness	0.28709033	**Kurtosis**	-0.2913194
Uncorrected SS	12451.6729	**Corrected SS**	2241.48505
Coeff Variation	46.9418066	**Std Error Mean**	0.17632926

Basic Statistical Measures			
Location		**Variability**	
Mean	6.160851	**Std Deviation**	2.89201
Median	6.230000	**Variance**	8.36375
Mode	7.420000	**Range**	15.45000
		Interquartile Range	4.21000

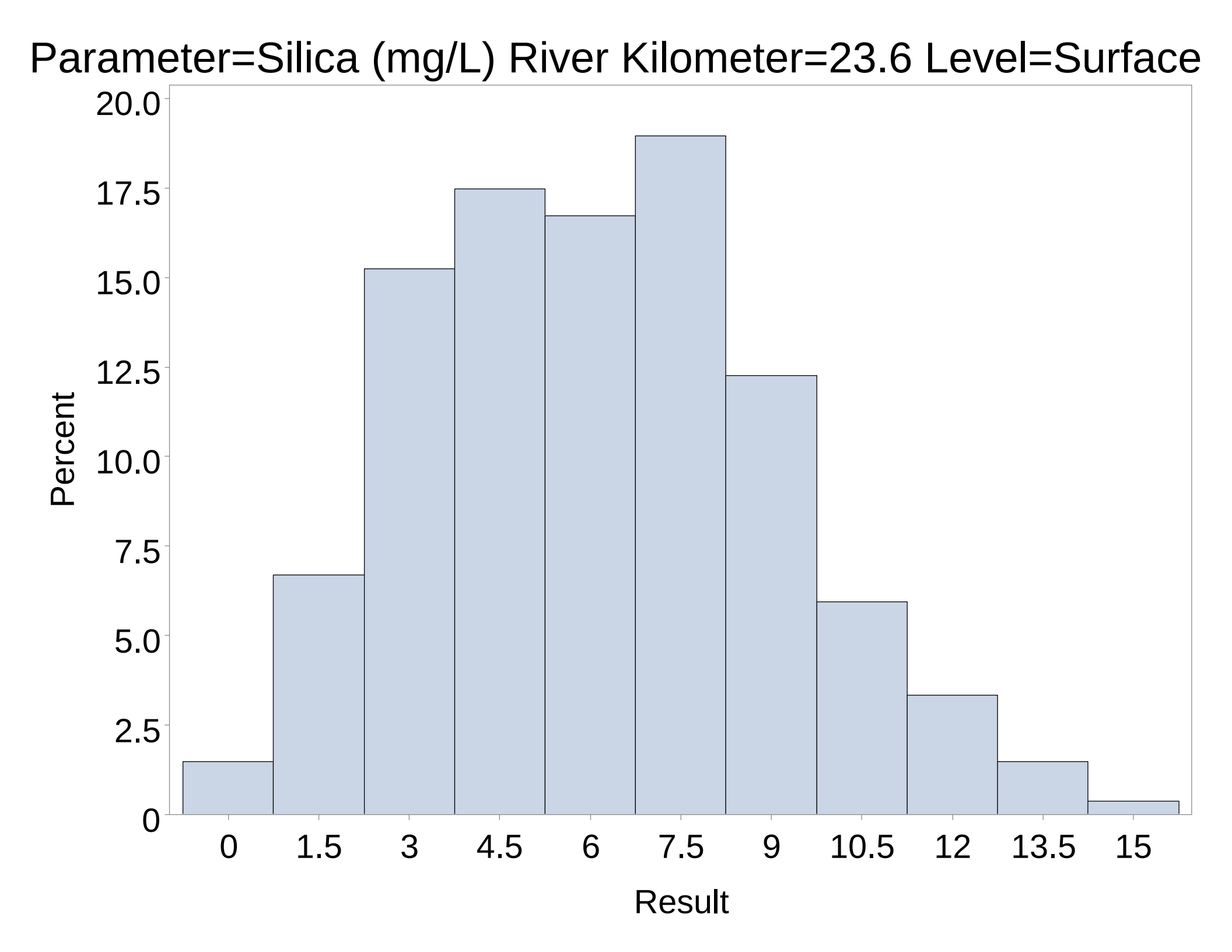
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.93947	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.500
99%	12.900
95%	11.400
90%	9.830
75% Q3	8.120
50% Median	6.230
25% Q1	3.910
10%	2.500
5%	1.780
1%	0.593
0% Min	0.050

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	79398	12.8	79550
0.073	79409	12.9	79569
0.593	79492	12.9	79598
0.593	79397	13.0	79595
0.800	79388	15.5	79594


Parameter=Silica (mg/L) River Kilometer=23.6 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	6.08941948	**Sum Observations**	1625.875
Std Deviation	2.99127219	**Variance**	8.94770933
Skewness	0.22249094	**Kurtosis**	-0.4226071
Uncorrected SS	12280.7256	**Corrected SS**	2380.09068
Coeff Variation	49.1224526	**Std Error Mean**	0.18306289

Basic Statistical Measures			
Location		**Variability**	
Mean	6.089419	**Std Deviation**	2.99127
Median	6.130000	**Variance**	8.94771
Mode	2.100000	**Range**	15.56600
		Interquartile Range	4.54000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

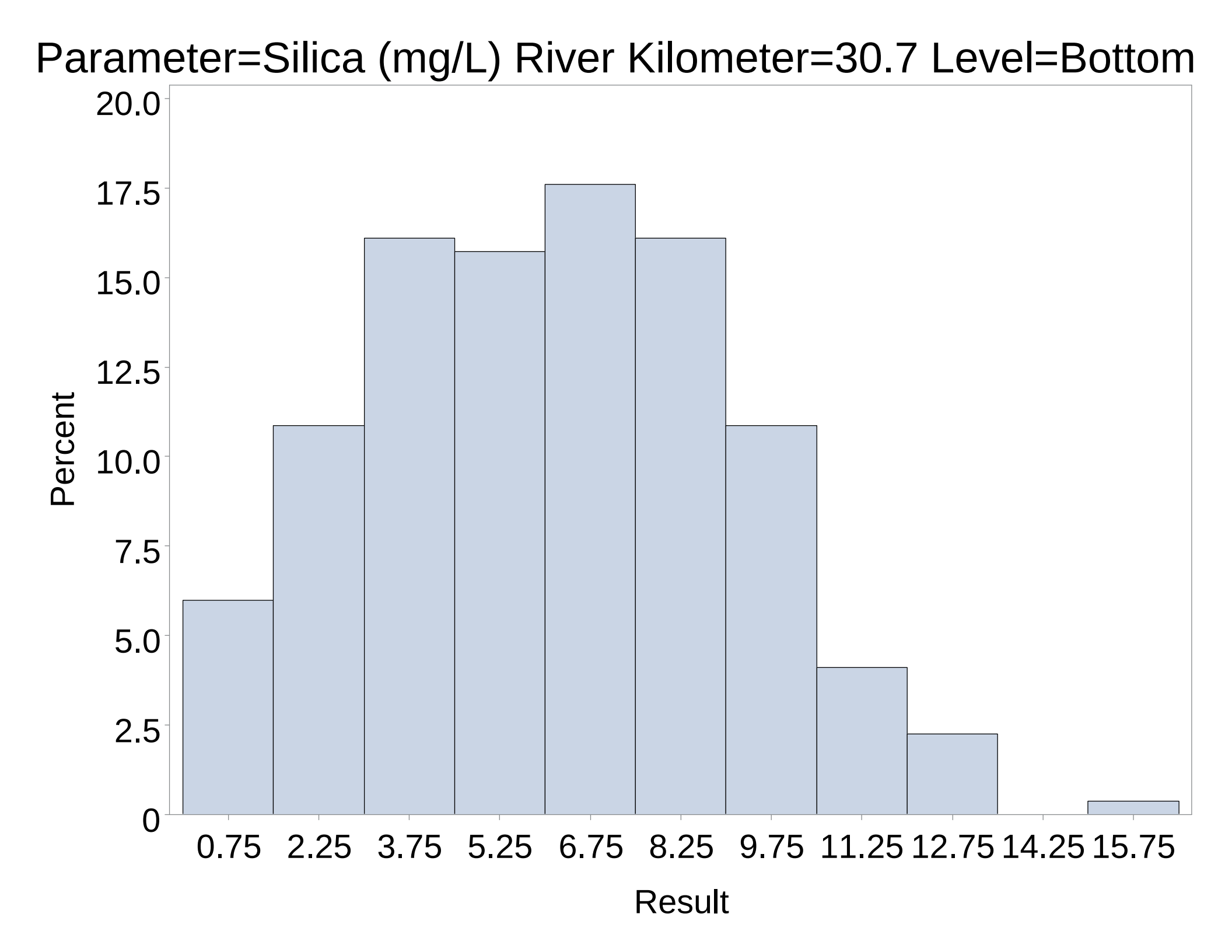
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.26409	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.900
99%	13.000
95%	11.000
90%	9.760
75% Q3	8.270
50% Median	6.130
25% Q1	3.730
10%	2.100
5%	1.420
1%	0.437
0% Min	0.334

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.334	79835	12.7	79758
0.416	79666	13.0	79818
0.437	79665	13.0	79862
0.700	79656	13.2	79865
0.784	79667	15.9	79861


Parameter=Silica (mg/L) River Kilometer=30.7 Level=Bottom
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	6.10776119	**Sum Observations**	1636.88
Std Deviation	2.98333837	**Variance**	8.90030783
Skewness	0.14363206	**Kurtosis**	-0.6452916
Uncorrected SS	12374.0543	**Corrected SS**	2376.38219
Coeff Variation	48.8450395	**Std Error Mean**	0.1822364

Basic Statistical Measures			
Location		**Variability**	
Mean	6.107761	**Std Deviation**	2.98334
Median	6.195000	**Variance**	8.90031
Mode	2.300000	**Range**	14.69000
		Interquartile Range	4.50500

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

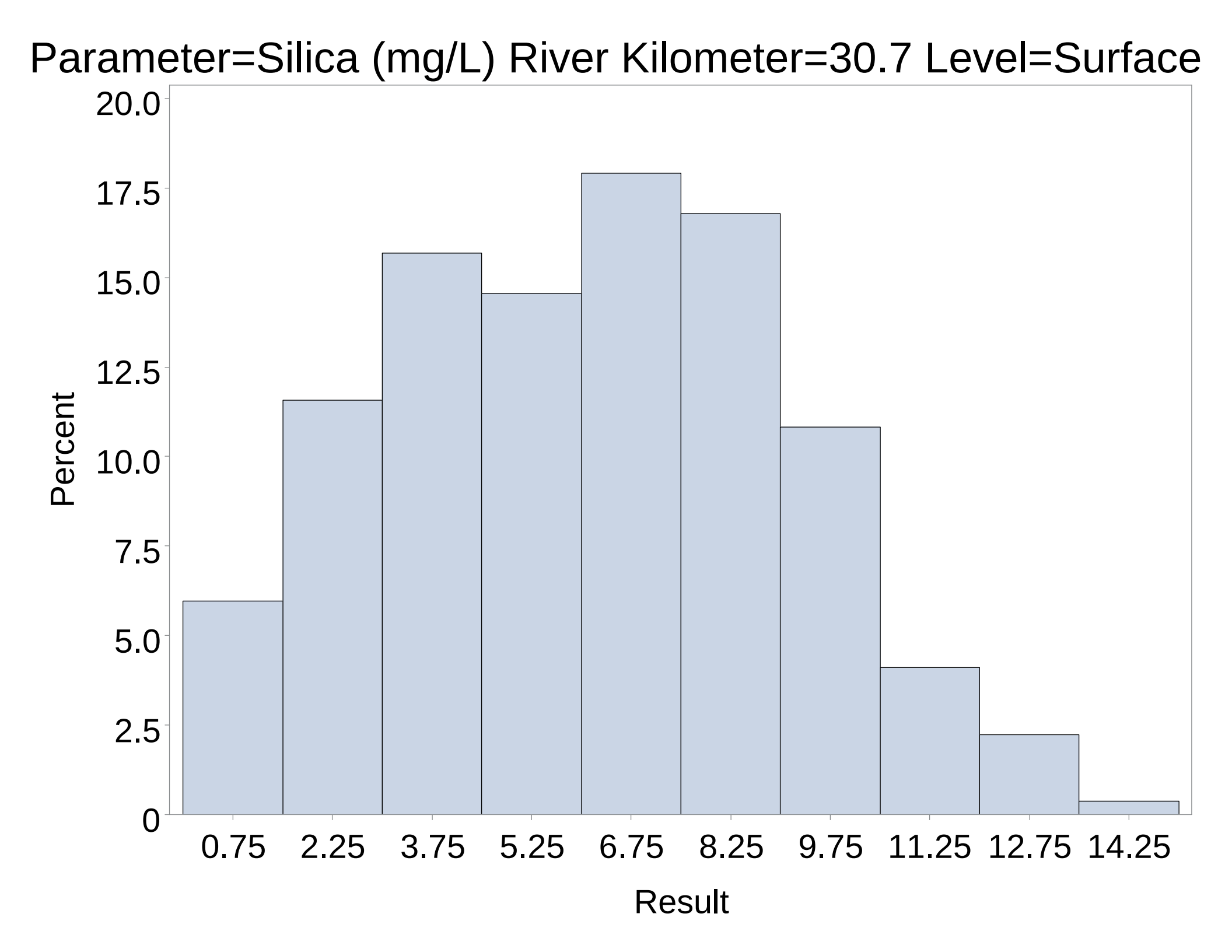
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.51559	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.900
99%	12.400
95%	11.400
90%	9.940
75% Q3	8.225
50% Median	6.195
25% Q1	3.720
10%	2.200
5%	1.450
1%	0.428
0% Min	0.210

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Silica (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.210	79945	12.2	80097
0.401	79934	12.3	80086
0.428	79933	12.4	80061
0.781	79935	12.6	80130
0.932	79936	14.9	80129


Parameter=Silica (mg/L) River Kilometer=30.7 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Dissolved Solids (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	94	**Sum Weights**	94
Mean	422	**Sum Observations**	39668
Std Deviation	585.554787	**Variance**	342874.409
Skewness	5.37009359	**Kurtosis**	31.571857
Uncorrected SS	48627216	**Corrected SS**	31887320
Coeff Variation	138.757059	**Std Error Mean**	60.3953648

Basic Statistical Measures			
Location		**Variability**	
Mean	422.0000	**Std Deviation**	585.55479
Median	300.0000	**Variance**	342874
Mode	220.0000	**Range**	4396
		Interquartile Range	140.00000

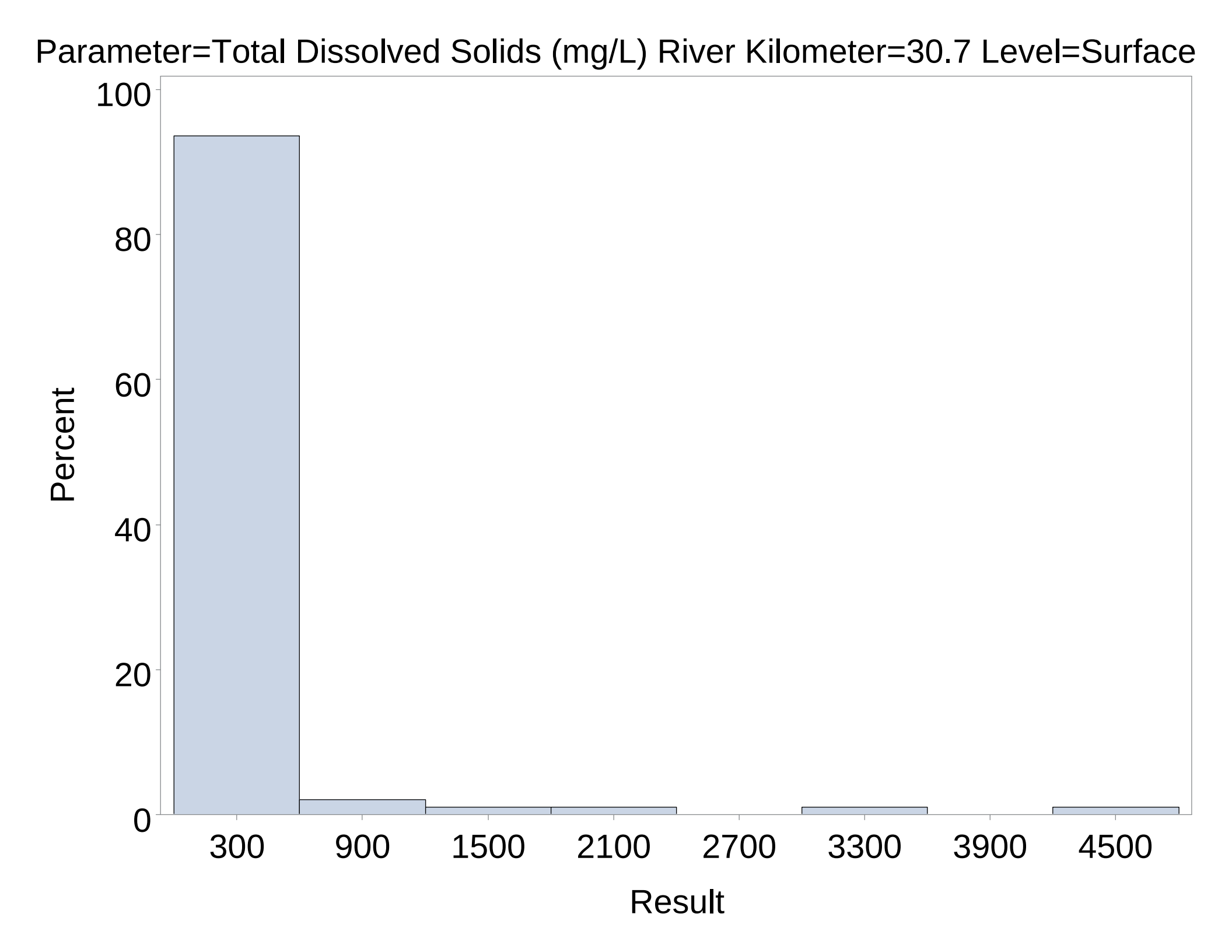
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	6.987291	**Pr > |t|**	<.0001
Sign	**M**	47	**Pr >= |M|**	<.0001
Signed Rank	**S**	2232.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4536
99%	4536
95%	672
90%	556
75% Q3	372
50% Median	300
25% Q1	232
10%	188
5%	156
1%	140
0% Min	140

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Dissolved Solids (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
140	80237	672	80152
144	80226	1776	80163
144	80213	2336	80223
156	80215	3108	80153
156	80202	4536	80164


Parameter=Total Dissolved Solids (mg/L) River Kilometer=30.7 Level=Surface
Percent
100
80
60
40
20
0
300
900
1500
2100
2700
3300
3900
4500
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=-2.4 Level=Bottom

Moments			
N	311	**Sum Weights**	311
Mean	24.5319936	**Sum Observations**	7629.45
Std Deviation	4.59324081	**Variance**	21.0978612
Skewness	-0.2931476	**Kurtosis**	-1.1221674
Uncorrected SS	193705.955	**Corrected SS**	6540.33696
Coeff Variation	18.7234715	**Std Error Mean**	0.26045879

Basic Statistical Measures			
Location		**Variability**	
Mean	24.53199	**Std Deviation**	4.59324
Median	24.80000	**Variance**	21.09786
Mode	27.90000	**Range**	18.54000
		Interquartile Range	8.30000

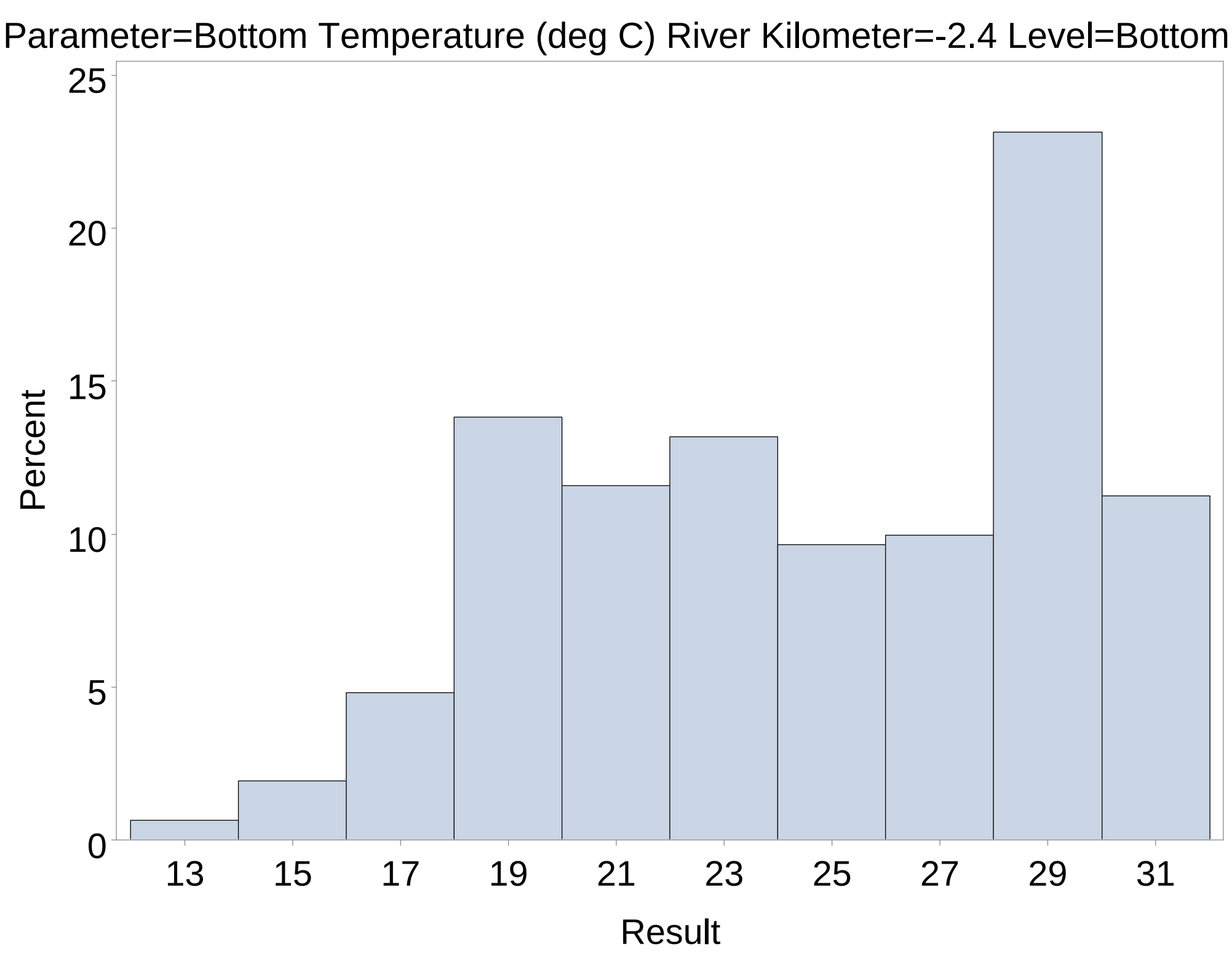
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	94.18762	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.38
99%	31.15
95%	30.47
90%	30.10
75% Q3	28.80
50% Median	24.80
25% Q1	20.50
10%	18.36
5%	17.10
1%	14.96
0% Min	12.84

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.84	80456	30.93	80499
13.26	80362	31.15	80289
14.92	80252	31.28	80286
14.96	80338	31.33	80393
15.42	80253	31.38	80285


Parameter=Bottom Temperature (deg C) River Kilometer=-2.4 Level=Bottom
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=6.6 Level=Bottom

Moments			
N	315	**Sum Weights**	315
Mean	24.7434286	**Sum Observations**	7794.18
Std Deviation	4.54621376	**Variance**	20.6680595
Skewness	-0.3311333	**Kurtosis**	-1.0512423
Uncorrected SS	199344.507	**Corrected SS**	6489.7707
Coeff Variation	18.3734188	**Std Error Mean**	0.25615013

Basic Statistical Measures			
Location		**Variability**	
Mean	24.74343	**Std Deviation**	4.54621
Median	24.96000	**Variance**	20.66806
Mode	28.00000	**Range**	18.50000
		Interquartile Range	7.90000

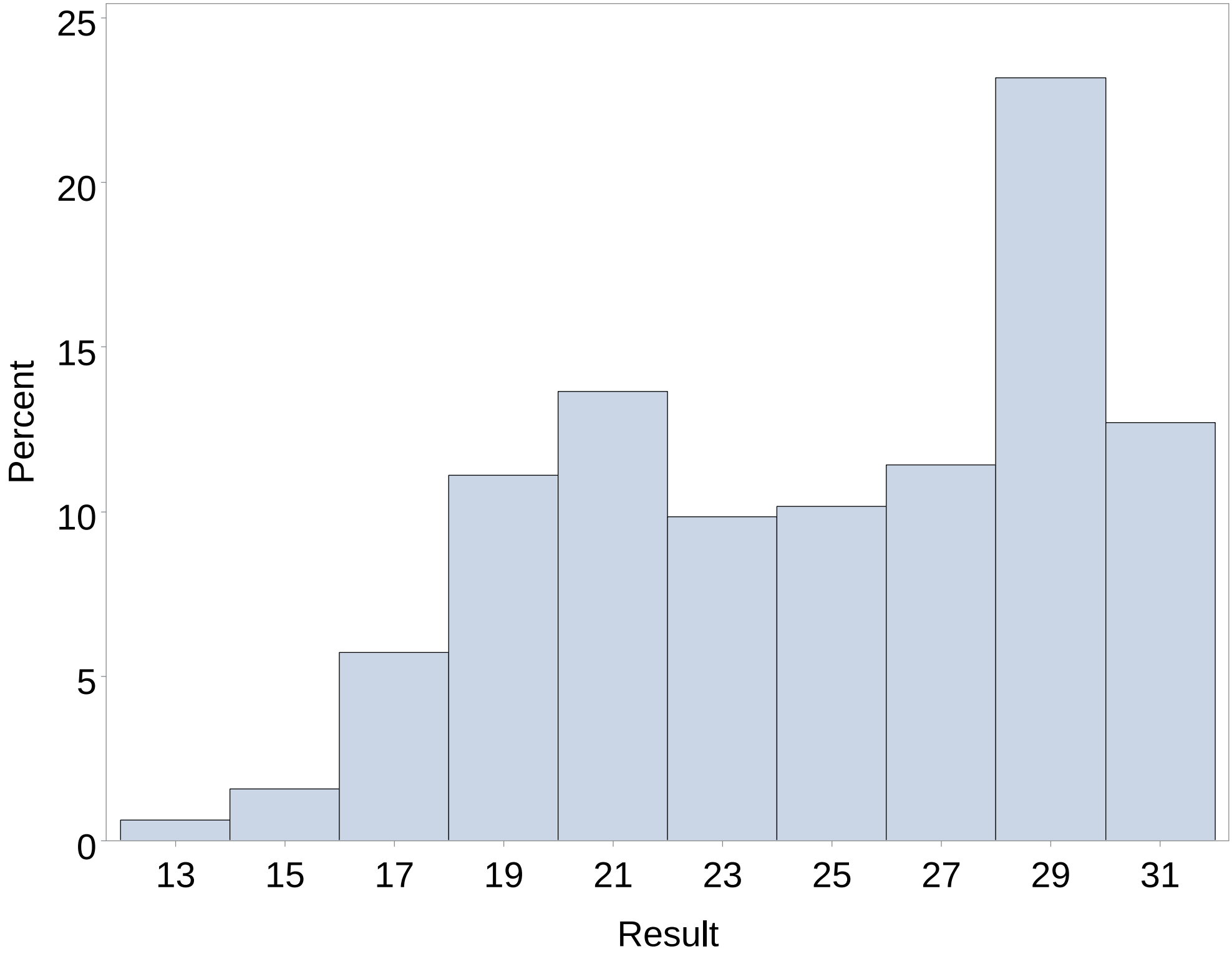
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	96.59737	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.50
99%	31.31
95%	30.77
90%	30.20
75% Q3	28.96
50% Median	24.96
25% Q1	21.06
10%	18.44
5%	17.00
1%	15.43
0% Min	13.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.00	80771	31.18	80755
13.28	80676	31.31	80596
15.16	80651	31.31	80777
15.43	80563	31.38	80693
15.62	80564	31.50	80862


25
20
15
10
5
0
Percent
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=8.4 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.7948327	**Sum Observations**	6669.81
Std Deviation	4.52503142	**Variance**	20.4759094
Skewness	-0.3647799	**Kurtosis**	-0.9618224
Uncorrected SS	170864.367	**Corrected SS**	5487.54372
Coeff Variation	18.249897	**Std Error Mean**	0.27589604

Basic Statistical Measures			
Location		**Variability**	
Mean	24.79483	**Std Deviation**	4.52503
Median	25.12000	**Variance**	20.47591
Mode	28.80000	**Range**	19.60000
		Interquartile Range	7.56000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

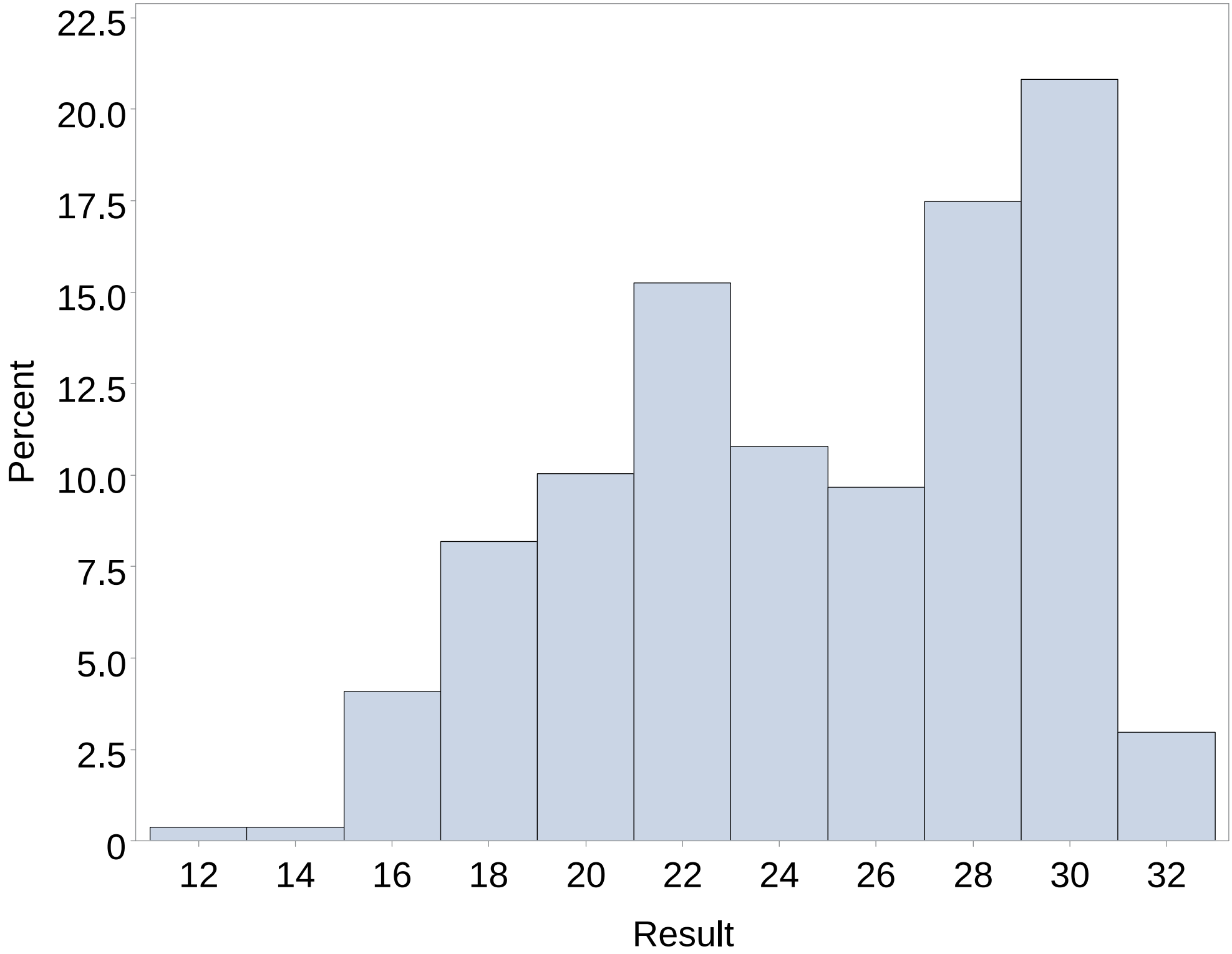
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	89.8702	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.00
99%	31.50
95%	30.62
90%	30.21
75% Q3	28.85
50% Median	25.12
25% Q1	21.29
10%	18.42
5%	17.08
1%	15.24
0% Min	12.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=8.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.40	81040	31.3	81108
13.18	80945	31.5	81024
15.24	80920	31.5	81109
15.73	80873	31.6	81095
15.97	80884	32.0	80903


22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
Percent
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=10.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.8309665	**Sum Observations**	6679.53
Std Deviation	4.47664918	**Variance**	20.0403879
Skewness	-0.3570068	**Kurtosis**	-0.9431612
Uncorrected SS	171230.01	**Corrected SS**	5370.82395
Coeff Variation	18.0284935	**Std Error Mean**	0.27294612

Basic Statistical Measures			
Location		**Variability**	
Mean	24.83097	**Std Deviation**	4.47665
Median	25.07000	**Variance**	20.04039
Mode	21.70000	**Range**	19.37000
		Interquartile Range	7.54000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

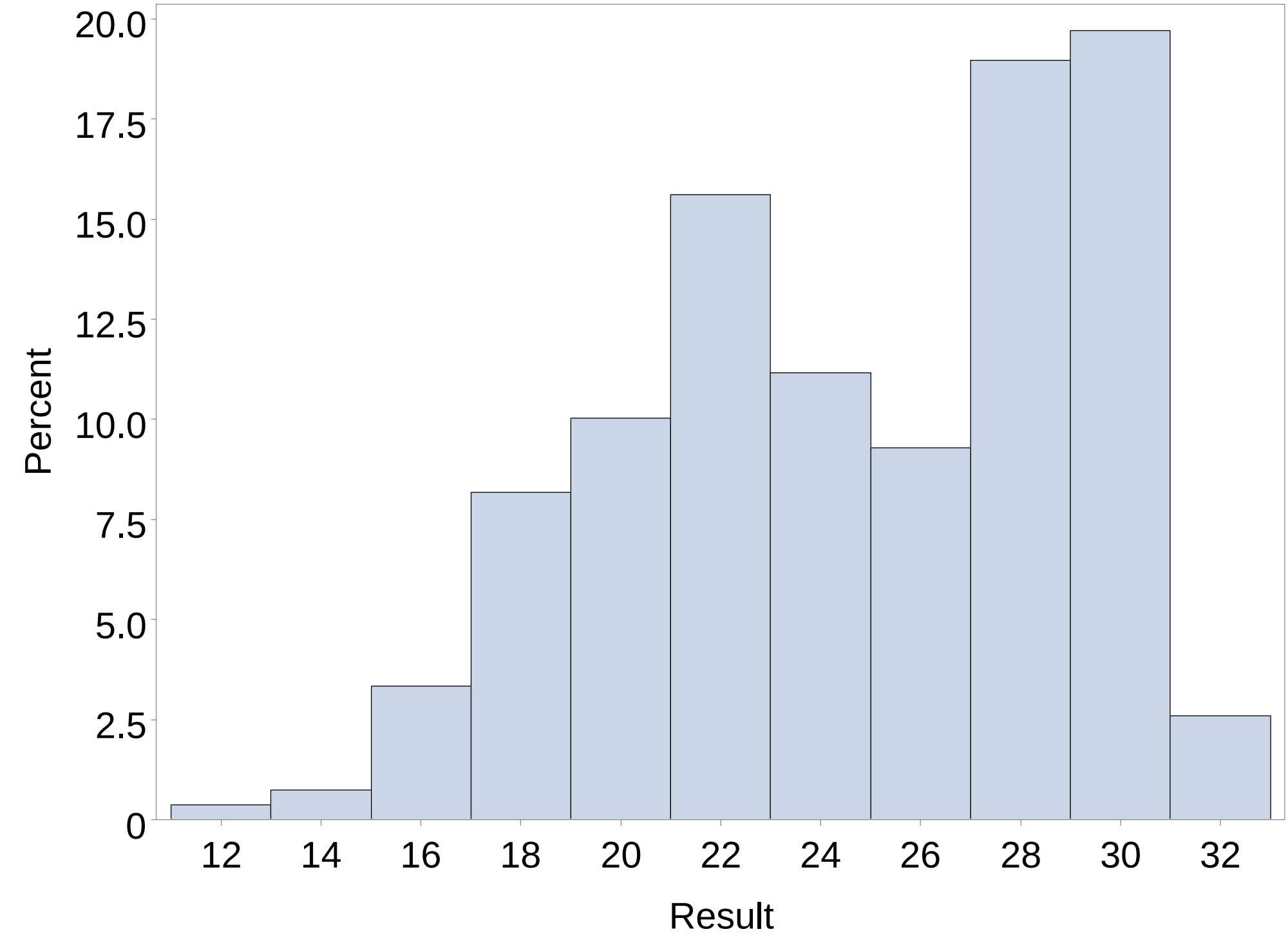
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	90.97388	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.10
99%	31.70
95%	30.71
90%	30.36
75% Q3	28.90
50% Median	25.07
25% Q1	21.36
10%	18.67
5%	17.06
1%	14.68
0% Min	12.73

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=10.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.73	81309	31.43	81304
13.83	81214	31.45	81293
14.68	81189	31.70	81364
15.70	81142	31.70	81377
16.10	81370	32.10	81172


Parameter=Bottom Temperature (deg C) River Kilometer=10.5 Level=Bottom
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=12.7 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.7460223	**Sum Observations**	6656.68
Std Deviation	4.33025061	**Variance**	18.7510703
Skewness	-0.3936349	**Kurtosis**	-0.8401454
Uncorrected SS	169751.639	**Corrected SS**	5025.28684
Coeff Variation	17.4987744	**Std Error Mean**	0.26402004

Basic Statistical Measures			
Location		**Variability**	
Mean	24.74602	**Std Deviation**	4.33025
Median	24.95000	**Variance**	18.75107
Mode	20.40000	**Range**	19.44000
		Interquartile Range	7.30000

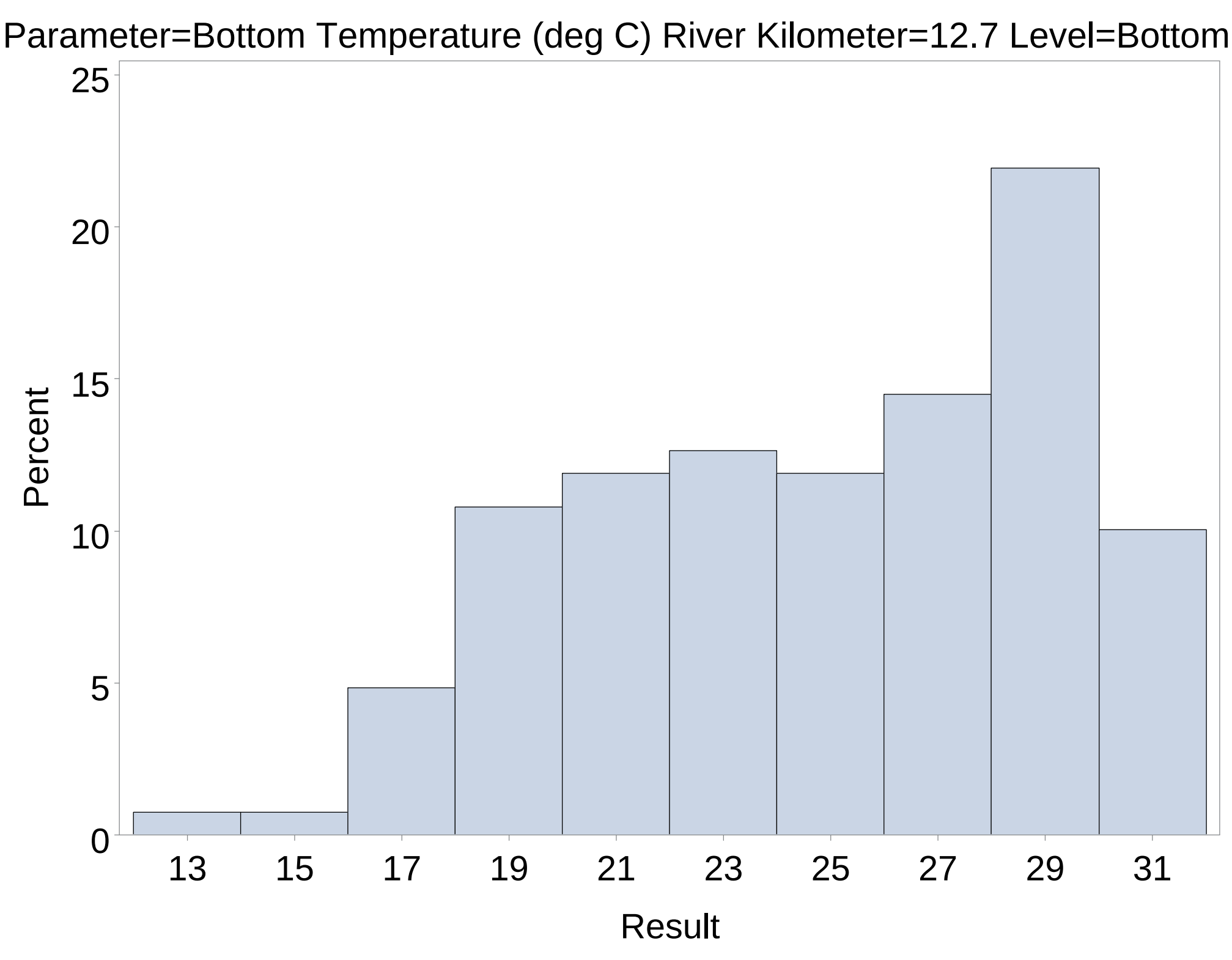
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	93.72782	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.80
99%	31.36
95%	30.46
90%	30.00
75% Q3	28.70
50% Median	24.95
25% Q1	21.40
10%	18.69
5%	17.37
1%	14.53
0% Min	12.36

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=12.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.36	81578	31.10	81441
13.52	81483	31.10	81633
14.53	81458	31.36	81573
15.90	81639	31.53	81562
16.15	81422	31.80	81646


Parameter=Bottom Temperature (deg C) River Kilometer=12.7 Level=Bottom
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=12.8 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.7437175	**Sum Observations**	6656.06
Std Deviation	4.24069635	**Variance**	17.9835055
Skewness	-0.4095509	**Kurtosis**	-0.7760883
Uncorrected SS	169515.248	**Corrected SS**	4819.57948
Coeff Variation	17.1384771	**Std Error Mean**	0.25855982

Basic Statistical Measures			
Location		**Variability**	
Mean	24.74372	**Std Deviation**	4.24070
Median	25.07000	**Variance**	17.98351
Mode	20.20000	**Range**	19.35000
		Interquartile Range	7.06000

Note: The mode displayed is the smallest of 8 modes with a count of 3.

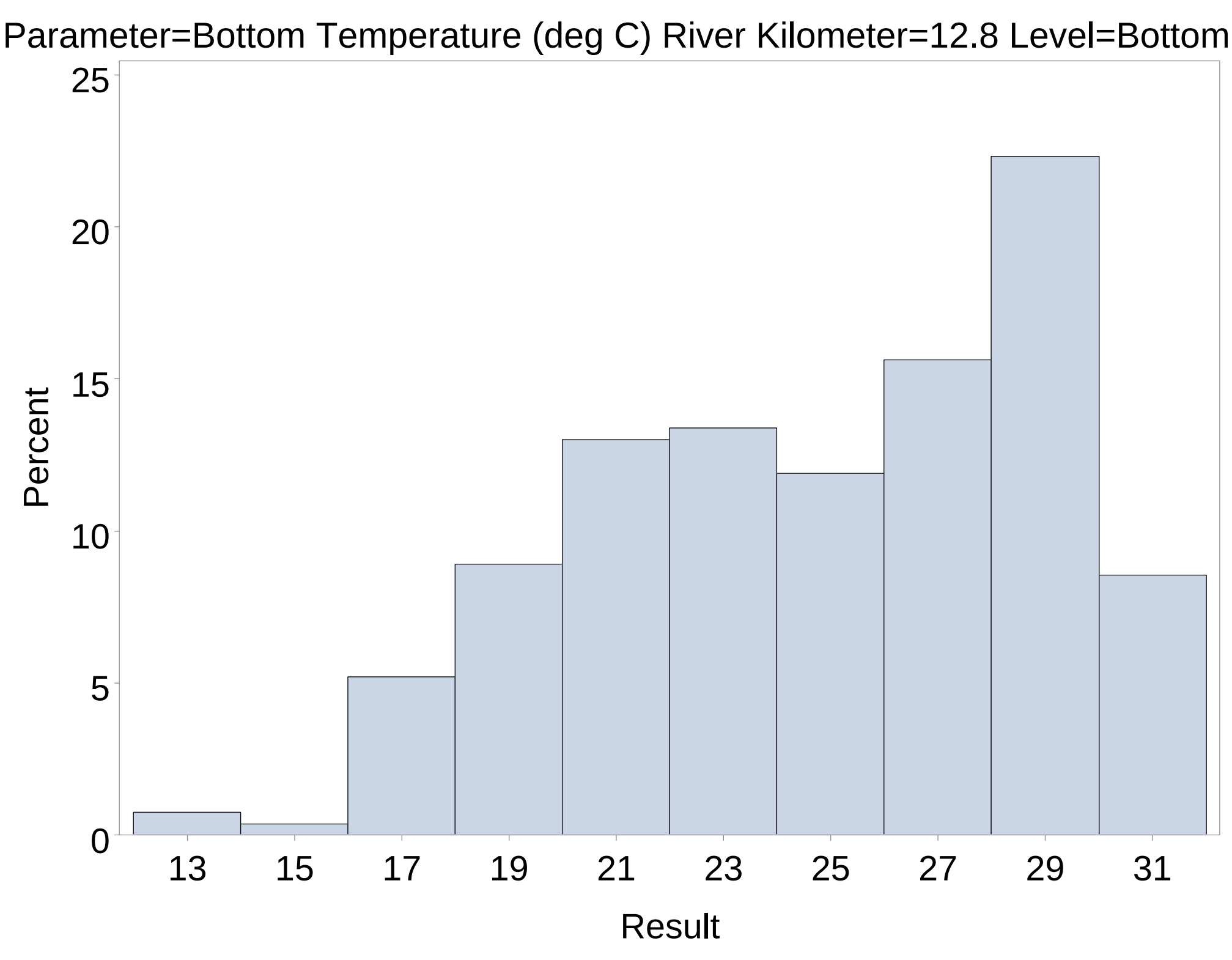
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	95.69823	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.50
99%	31.20
95%	30.38
90%	29.89
75% Q3	28.49
50% Median	25.07
25% Q1	21.43
10%	18.82
5%	17.26
1%	14.69
0% Min	12.15

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=12.8 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.15	81847	30.92	81831
13.47	81752	30.94	81735
14.69	81727	31.20	81915
16.00	81908	31.42	81842
16.05	81680	31.50	81902


Parameter=Bottom Temperature (deg C) River Kilometer=12.8 Level=Bottom
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=15.5 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	24.7132278	**Sum Observations**	7809.38
Std Deviation	4.18178298	**Variance**	17.4873089
Skewness	-0.4237302	**Kurtosis**	-0.7562052
Uncorrected SS	198503.49	**Corrected SS**	5508.50231
Coeff Variation	16.9212335	**Std Error Mean**	0.23524367

Basic Statistical Measures			
Location		**Variability**	
Mean	24.71323	**Std Deviation**	4.18178
Median	25.22000	**Variance**	17.48731
Mode	29.30000	**Range**	19.49000
		Interquartile Range	6.94500

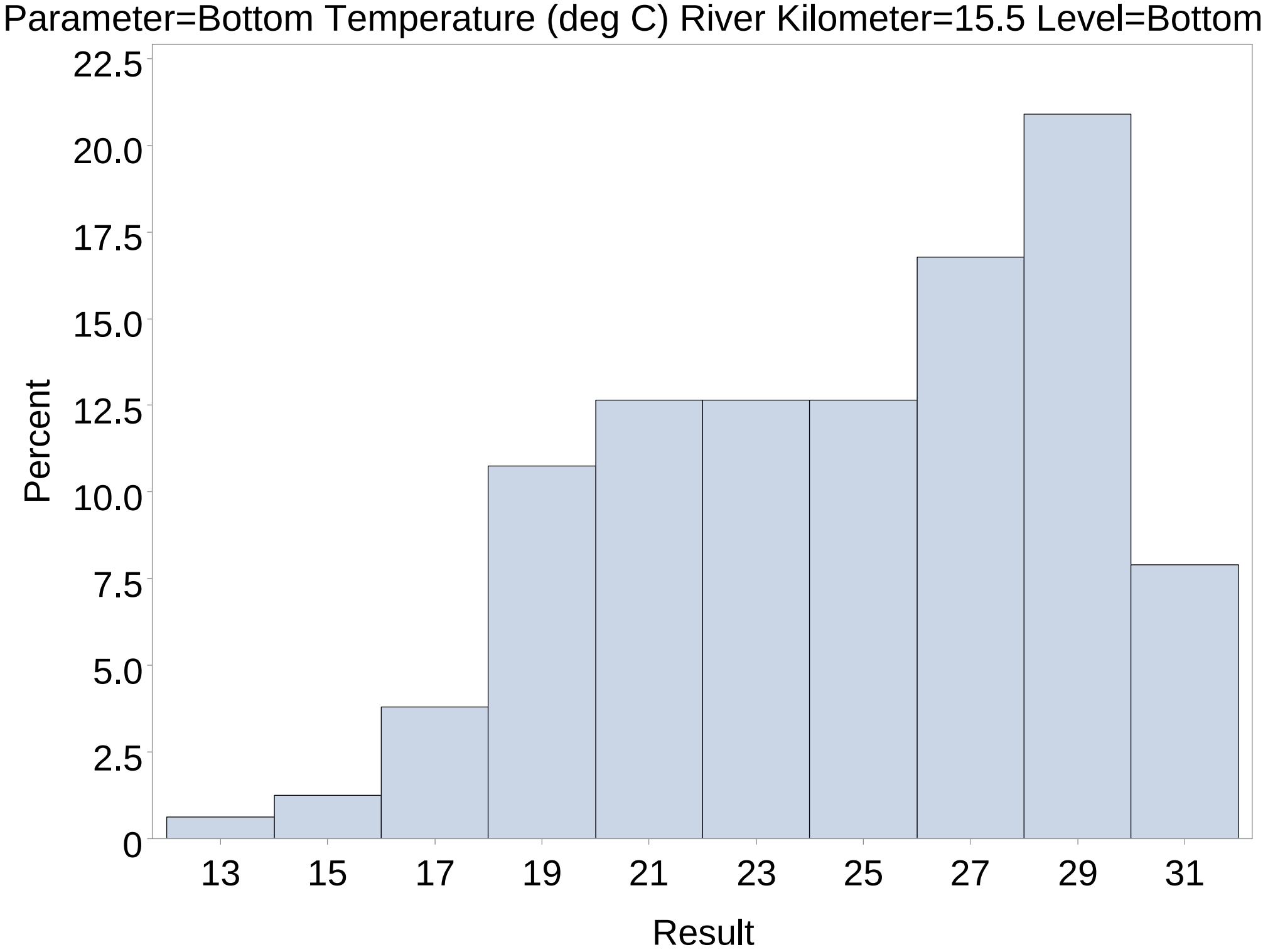
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	105.0537	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.620
99%	31.100
95%	30.210
90%	29.680
75% Q3	28.345
50% Median	25.220
25% Q1	21.400
10%	18.710
5%	17.700
1%	15.320
0% Min	12.130

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.13	82163	31.06	82147
13.70	82068	31.10	82015
15.10	82224	31.10	82231
15.32	82043	31.40	82014
15.57	81954	31.62	82158


Parameter=Bottom Temperature (deg C) River Kilometer=15.5 Level=Bottom
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=17.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.7885502	**Sum Observations**	6668.12
Std Deviation	4.28130627	**Variance**	18.3295833
Skewness	-0.4495782	**Kurtosis**	-0.7954207
Uncorrected SS	170205.356	**Corrected SS**	4912.32833
Coeff Variation	17.2713056	**Std Error Mean**	0.26103585

Basic Statistical Measures			
Location		**Variability**	
Mean	24.78855	**Std Deviation**	4.28131
Median	25.30000	**Variance**	18.32958
Mode	28.70000	**Range**	18.75000
		Interquartile Range	6.92000

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

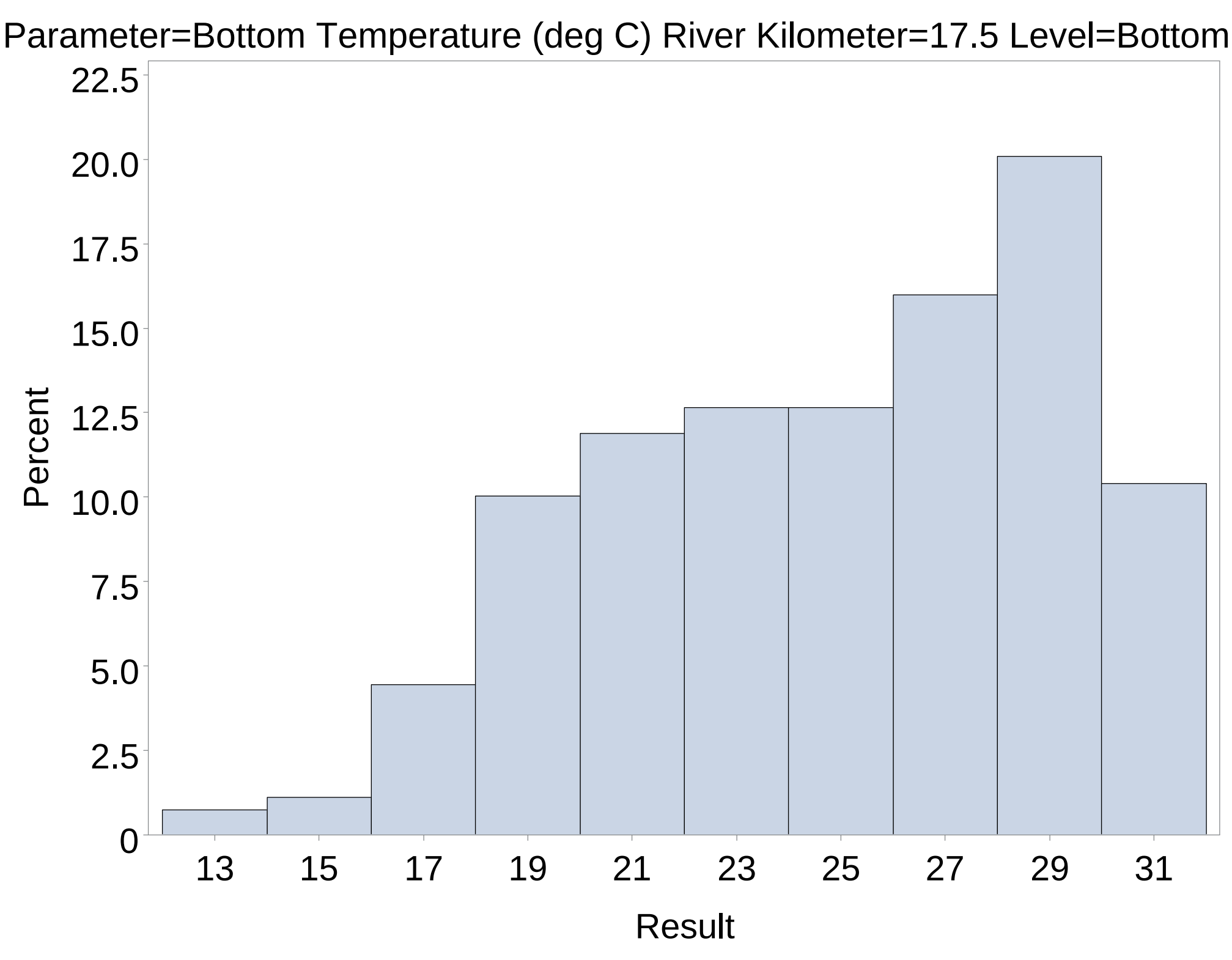
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	94.96224	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.68
99%	30.84
95%	30.35
90%	30.05
75% Q3	28.59
50% Median	25.30
25% Q1	21.67
10%	18.60
5%	17.37
1%	14.70
0% Min	12.93

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=17.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.93	82432	30.80	82487
13.66	82337	30.80	82500
14.70	82493	30.84	82354
15.52	82265	31.46	82438
15.79	82312	31.68	82427


Parameter=Bottom Temperature (deg C) River Kilometer=17.5 Level=Bottom
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=20.1 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.8080669	**Sum Observations**	6673.37
Std Deviation	4.29329762	**Variance**	18.4324045
Skewness	-0.4422062	**Kurtosis**	-0.8280063
Uncorrected SS	170493.294	**Corrected SS**	4939.88439
Coeff Variation	17.3060547	**Std Error Mean**	0.26176698

Basic Statistical Measures			
Location		**Variability**	
Mean	24.80807	**Std Deviation**	4.29330
Median	25.49000	**Variance**	18.43240
Mode	28.60000	**Range**	18.82000
		Interquartile Range	7.02000

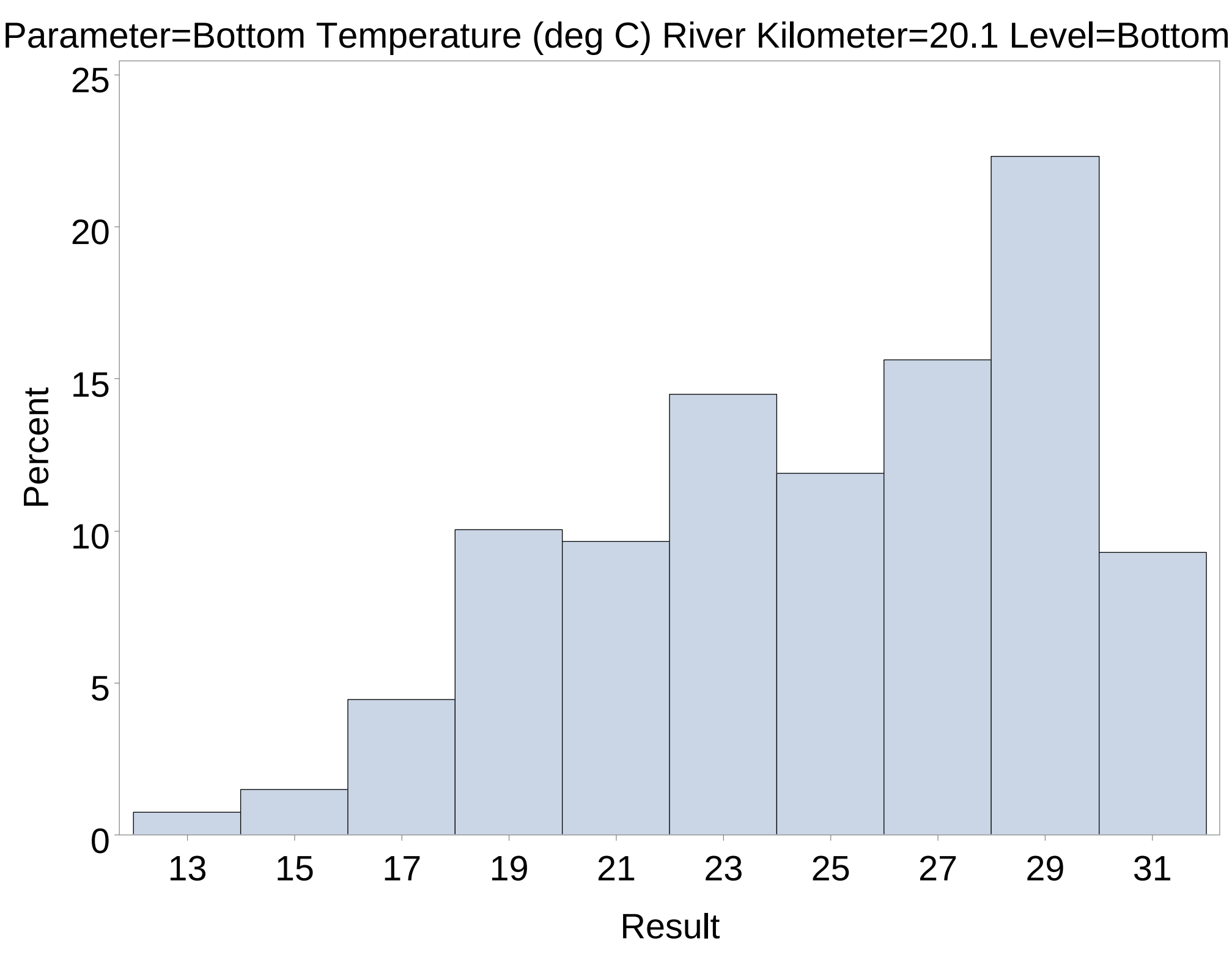
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	94.77157	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.79
99%	30.90
95%	30.44
90%	29.97
75% Q3	28.60
50% Median	25.49
25% Q1	21.58
10%	18.60
5%	17.40
1%	15.30
0% Min	12.97

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=20.1 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.97	82701	30.79	82660
13.39	82606	30.80	82623
15.30	82762	30.90	82769
15.72	82534	31.78	82696
15.80	82581	31.79	82707


Parameter=Bottom Temperature (deg C) River Kilometer=20.1 Level=Bottom
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=21.9 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.8525279	**Sum Observations**	6685.33
Std Deviation	4.26859185	**Variance**	18.2208764
Skewness	-0.447752	**Kurtosis**	-0.8219297
Uncorrected SS	171030.545	**Corrected SS**	4883.19488
Coeff Variation	17.1756848	**Std Error Mean**	0.26026064

Basic Statistical Measures			
Location		**Variability**	
Mean	24.85253	**Std Deviation**	4.26859
Median	25.54000	**Variance**	18.22088
Mode	29.10000	**Range**	19.02000
		Interquartile Range	7.02000

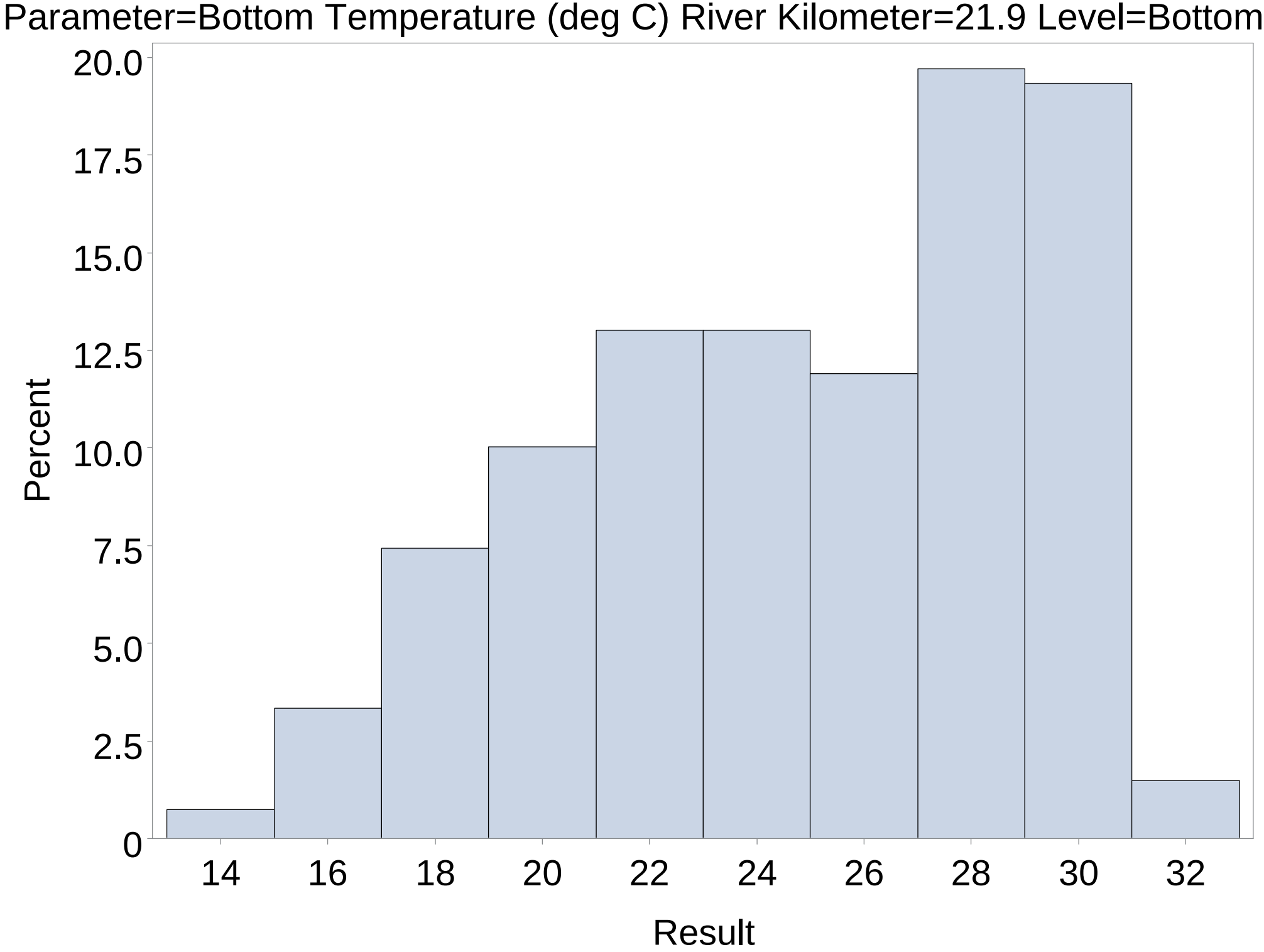
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	95.49092	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.44
99%	31.20
95%	30.38
90%	29.70
75% Q3	28.70
50% Median	25.54
25% Q1	21.68
10%	18.60
5%	17.50
1%	15.00
0% Min	13.42

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=21.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.42	82970	30.95	83014
13.76	82875	31.18	82916
15.00	83031	31.20	82892
16.02	82899	31.40	82976
16.11	82814	32.44	82965


Parameter=Bottom Temperature (deg C) River Kilometer=21.9 Level=Bottom
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=23.6 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	24.6693354	**Sum Observations**	7795.51
Std Deviation	4.27578696	**Variance**	18.2823542
Skewness	-0.4292669	**Kurtosis**	-0.80692
Uncorrected SS	198068.993	**Corrected SS**	5758.94156
Coeff Variation	17.3323962	**Std Error Mean**	0.24053181

Basic Statistical Measures			
Location		**Variability**	
Mean	24.66934	**Std Deviation**	4.27579
Median	25.11000	**Variance**	18.28235
Mode	29.20000	**Range**	19.86000
		Interquartile Range	6.97500

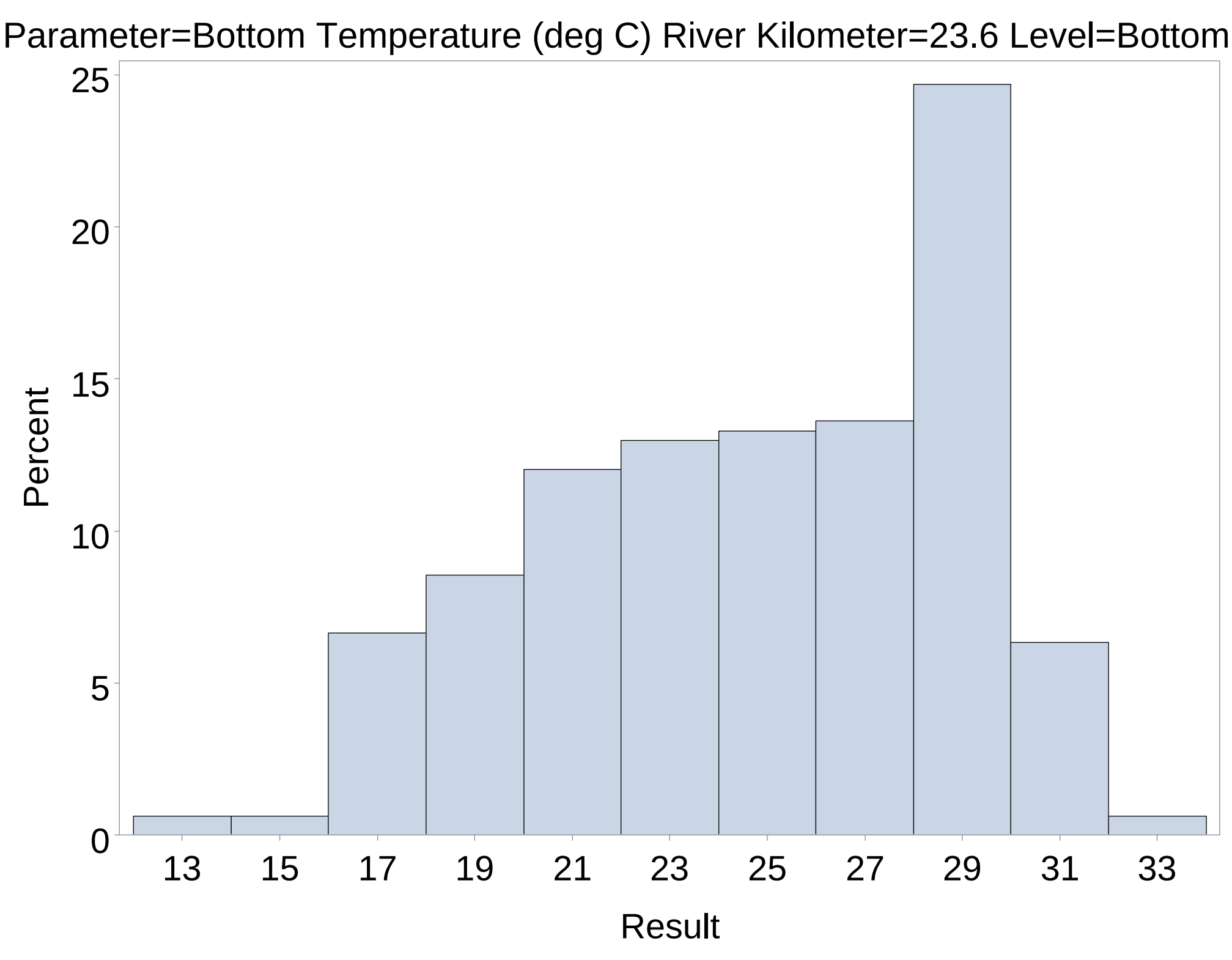
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	102.5616	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.460
99%	31.060
95%	30.350
90%	29.500
75% Q3	28.500
50% Median	25.110
25% Q1	21.525
10%	18.400
5%	17.100
1%	15.830
0% Min	12.600

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.60	83191	30.90	83330
12.81	83286	31.06	83232
15.10	83347	31.52	83281
15.83	83077	32.02	83292
16.14	83100	32.46	83111


Parameter=Bottom Temperature (deg C) River Kilometer=23.6 Level=Bottom
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=24.7 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.8287361	**Sum Observations**	6678.93
Std Deviation	4.26529319	**Variance**	18.192726
Skewness	-0.4833343	**Kurtosis**	-0.7583736
Uncorrected SS	170705.041	**Corrected SS**	4875.65057
Coeff Variation	17.1788575	**Std Error Mean**	0.26005952

Basic Statistical Measures			
Location		**Variability**	
Mean	24.82874	**Std Deviation**	4.26529
Median	25.40000	**Variance**	18.19273
Mode	28.90000	**Range**	19.40000
		Interquartile Range	6.94000

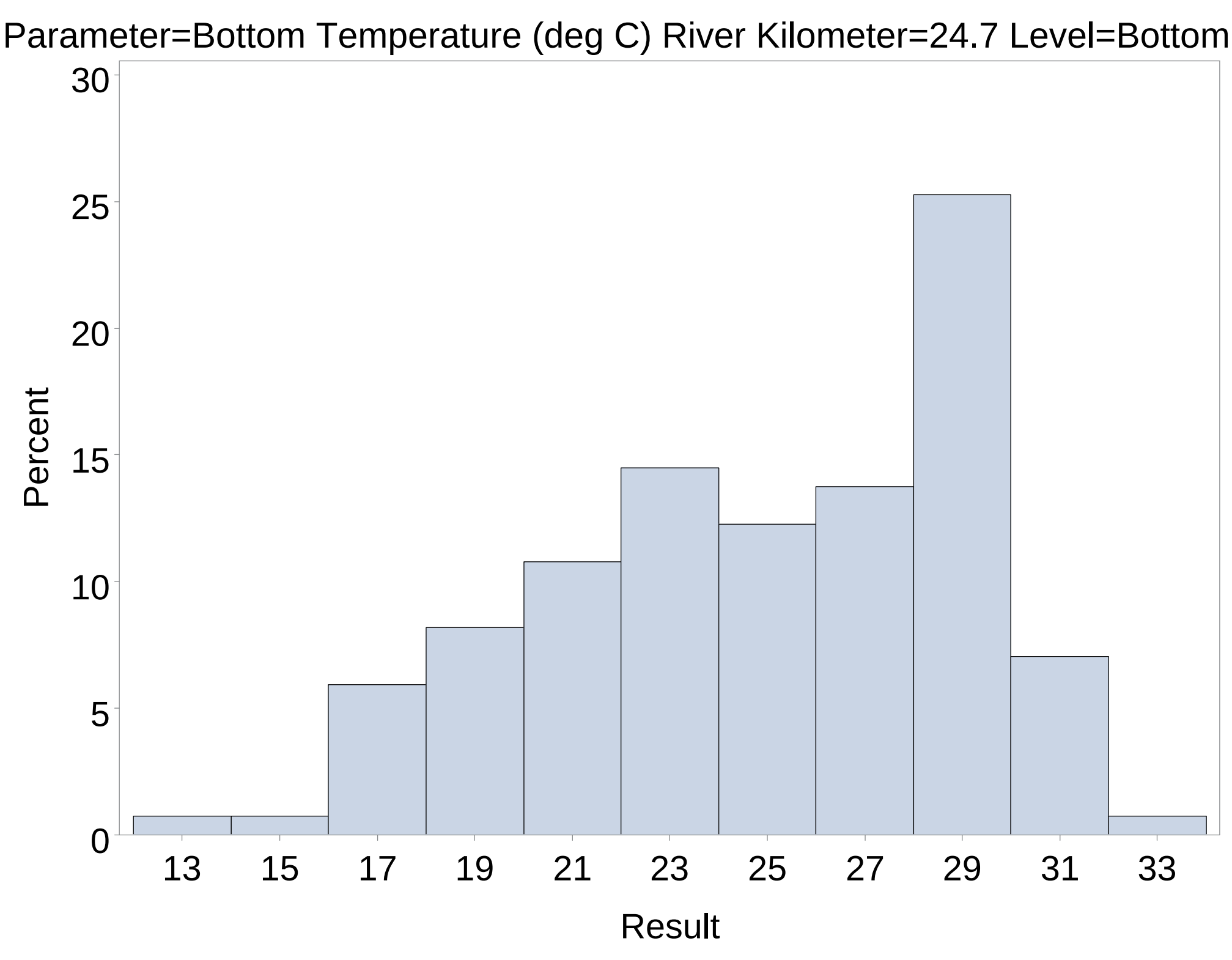
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	95.47328	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.28
99%	31.62
95%	30.33
90%	29.68
75% Q3	28.70
50% Median	25.40
25% Q1	21.76
10%	18.30
5%	17.29
1%	15.00
0% Min	12.88

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=24.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.88	83460	30.73	83514
13.42	83555	30.95	83599
15.00	83616	31.62	83501
15.95	83388	32.00	83550
16.15	83399	32.28	83561


Parameter=Bottom Temperature (deg C) River Kilometer=24.7 Level=Bottom
Percent
0
5
10
15
20
25
30
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=25.9 Level=Bottom

Moments			
N	268	**Sum Weights**	268
Mean	24.9202388	**Sum Observations**	6678.624
Std Deviation	4.25241099	**Variance**	18.0829993
Skewness	-0.5060716	**Kurtosis**	-0.6996267
Uncorrected SS	171261.066	**Corrected SS**	4828.1608
Coeff Variation	17.064086	**Std Error Mean**	0.25975734

Basic Statistical Measures			
Location		**Variability**	
Mean	24.92024	**Std Deviation**	4.25241
Median	25.40000	**Variance**	18.08300
Mode	29.20000	**Range**	19.21000
		Interquartile Range	6.76000

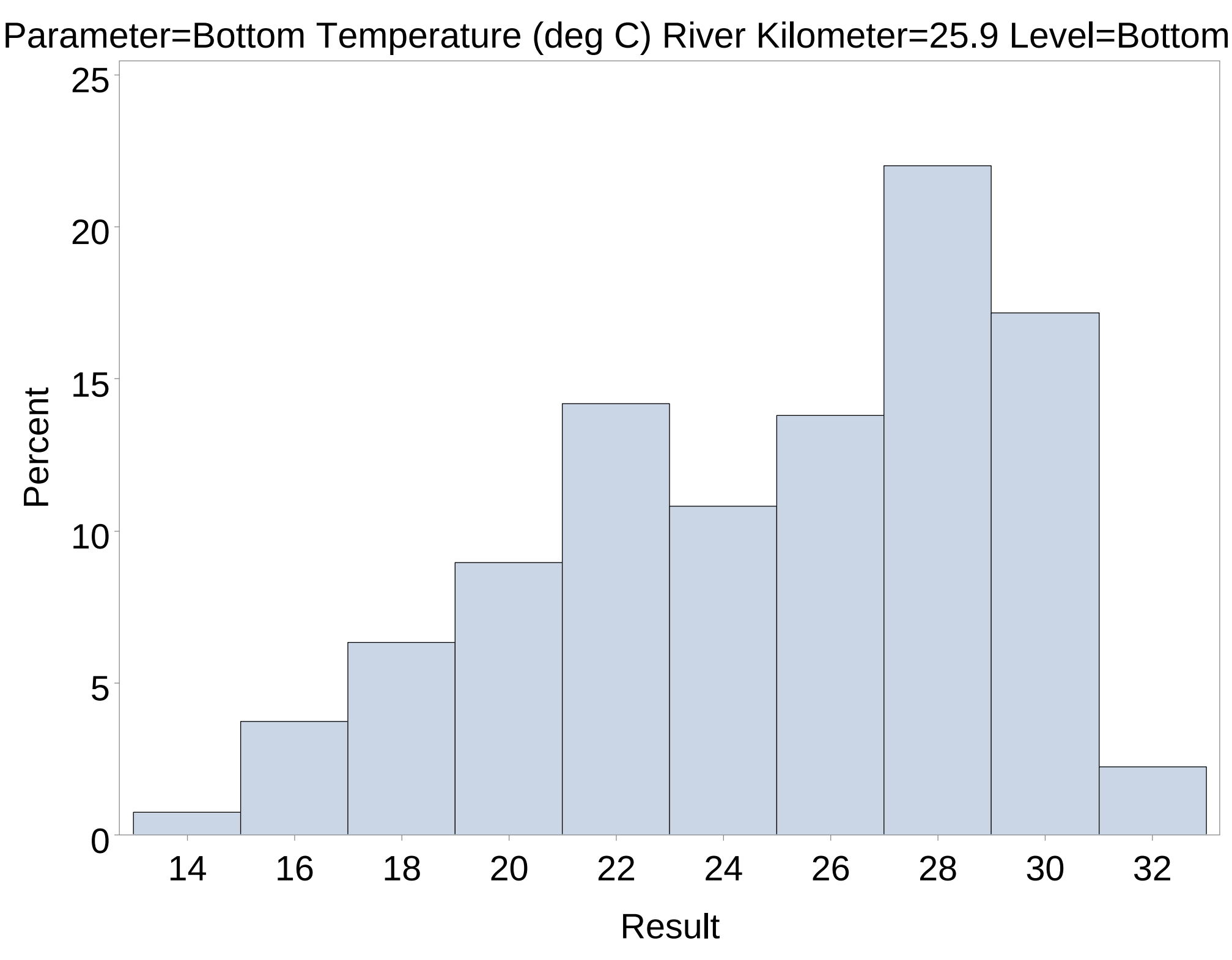
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	95.93661	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.280
99%	31.680
95%	30.390
90%	29.700
75% Q3	28.575
50% Median	25.400
25% Q1	21.815
10%	18.500
5%	17.350
1%	15.000
0% Min	13.070

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=25.9 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.07	83823	31.01	83867
13.27	83728	31.24	83783
15.00	83884	31.68	83829
16.05	83657	31.75	83769
16.12	83668	32.28	83818


Parameter=Bottom Temperature (deg C) River Kilometer=25.9 Level=Bottom
Percent
0
5
10
15
20
25
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=29.5 Level=Bottom

Moments			
N	269	**Sum Weights**	269
Mean	24.677026	**Sum Observations**	6638.12
Std Deviation	4.31838175	**Variance**	18.648421
Skewness	-0.4980423	**Kurtosis**	-0.723032
Uncorrected SS	168806.837	**Corrected SS**	4997.77682
Coeff Variation	17.4996037	**Std Error Mean**	0.26329638

Basic Statistical Measures			
Location		**Variability**	
Mean	24.67703	**Std Deviation**	4.31838
Median	25.37000	**Variance**	18.64842
Mode	28.70000	**Range**	20.01000
		Interquartile Range	6.91000

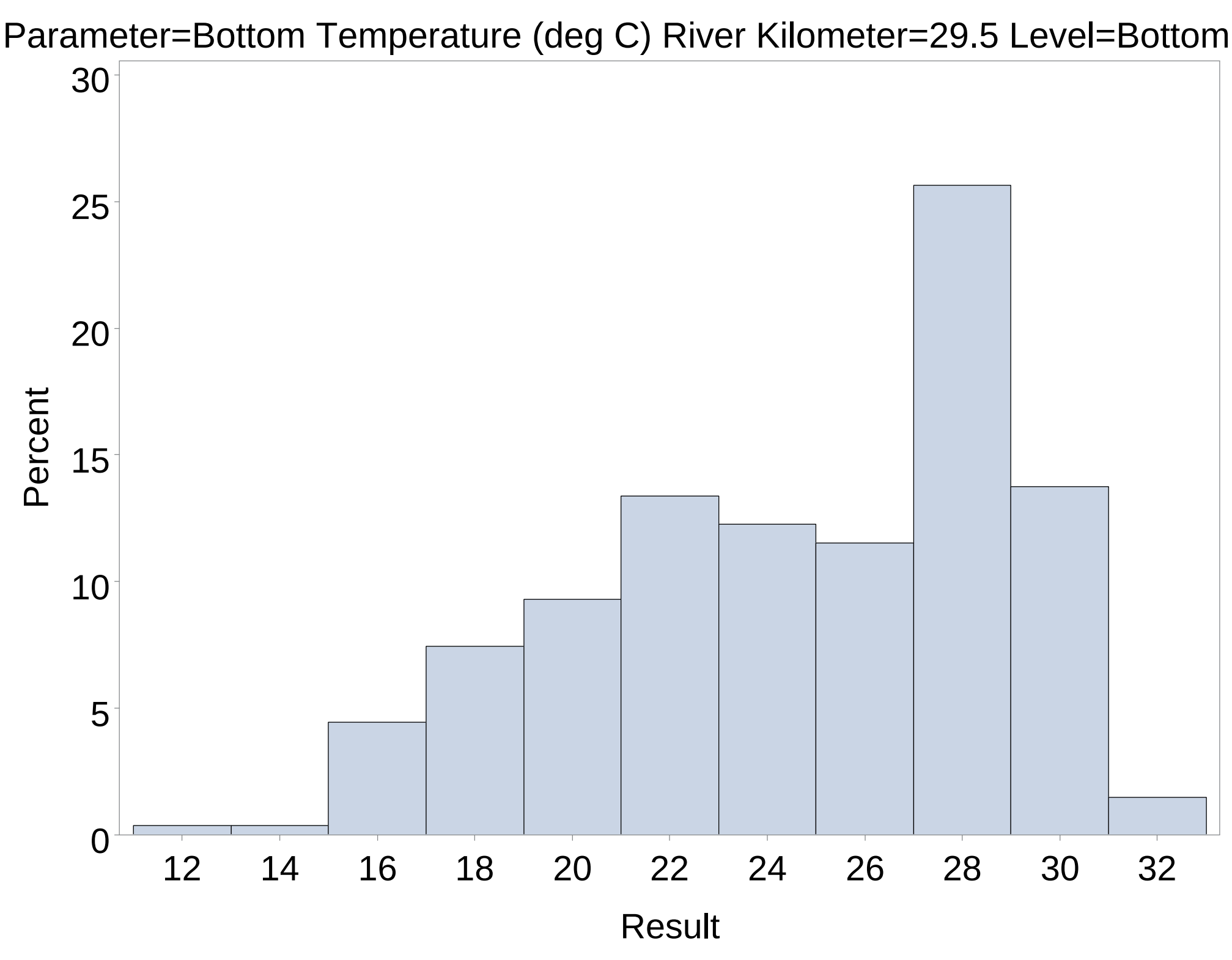
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	93.72338	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.89
99%	31.54
95%	30.28
90%	29.62
75% Q3	28.40
50% Median	25.37
25% Q1	21.49
10%	18.37
5%	16.87
1%	15.00
0% Min	11.88

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=29.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.88	84092	30.90	84146
13.40	83997	31.29	84136
15.00	84153	31.54	84038
15.55	83925	31.82	84098
15.85	84142	31.89	84087


Parameter=Bottom Temperature (deg C) River Kilometer=29.5 Level=Bottom
Percent
0
5
10
15
20
25
30
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=30.7 Level=Bottom

Moments			
N	316	**Sum Weights**	316
Mean	24.7068671	**Sum Observations**	7807.37
Std Deviation	4.38453835	**Variance**	19.2241765
Skewness	-0.4074327	**Kurtosis**	-0.7293986
Uncorrected SS	198951.269	**Corrected SS**	6055.6156
Coeff Variation	17.7462336	**Std Error Mean**	0.24664955

Basic Statistical Measures			
Location		**Variability**	
Mean	24.70687	**Std Deviation**	4.38454
Median	25.36000	**Variance**	19.22418
Mode	21.50000	**Range**	23.61000
		Interquartile Range	7.16500

Note: The mode displayed is the smallest of 4 modes with a count of 4.

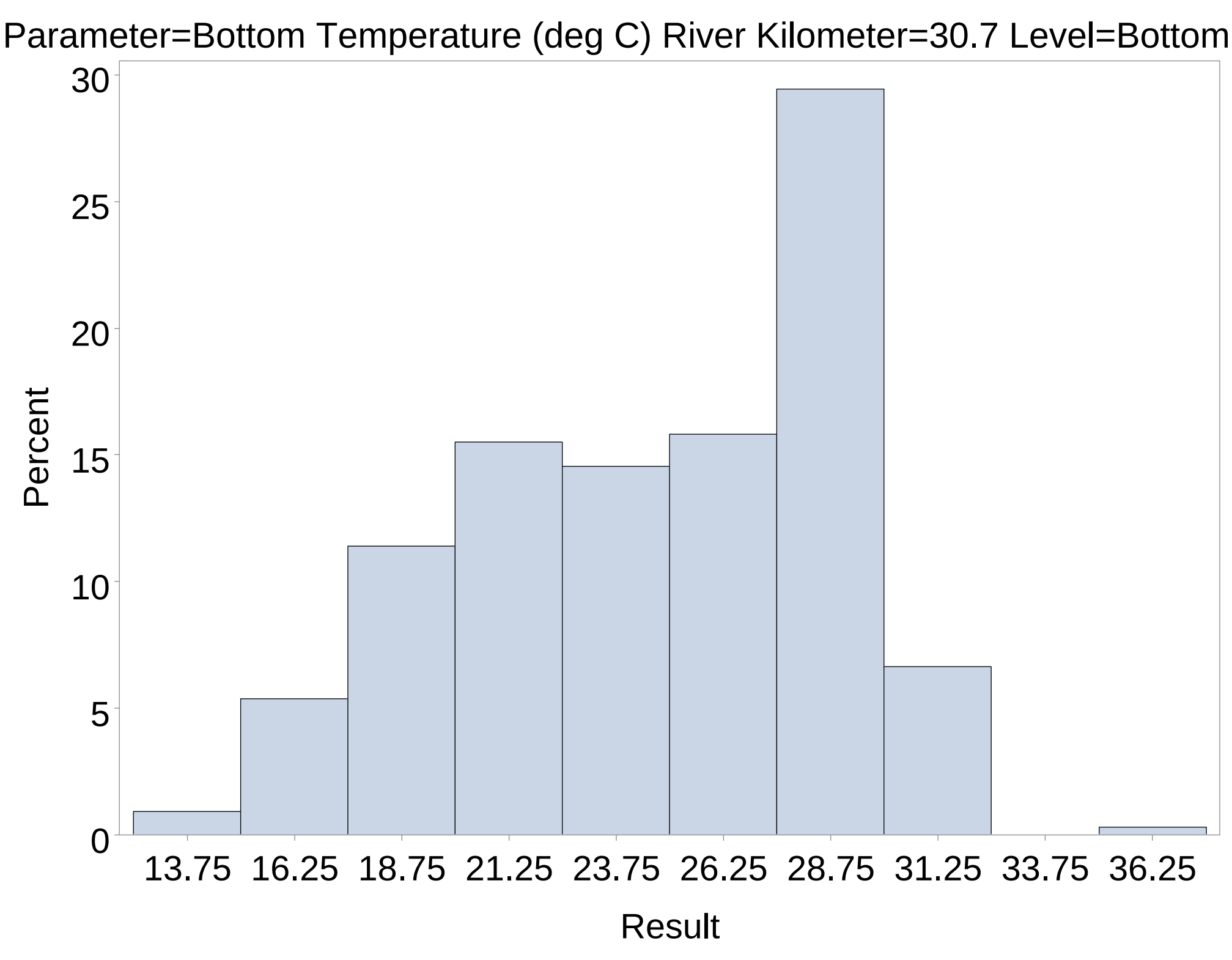
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	100.1699	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.680
99%	31.870
95%	30.280
90%	29.670
75% Q3	28.500
50% Median	25.360
25% Q1	21.335
10%	18.440
5%	16.950
1%	15.000
0% Min	13.070

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.07	84408	31.75	84354
13.38	84313	31.87	84403
14.70	84199	31.97	84414
15.00	84469	32.43	84233
15.20	84200	36.68	84306


Parameter=Bottom Temperature (deg C) River Kilometer=30.7 Level=Bottom
Percent
0
5
10
15
20
25
30
13.75
16.25
18.75
21.25
23.75
26.25
28.75
31.25
33.75
36.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=32.3 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	24.869588	**Sum Observations**	6640.18
Std Deviation	4.40352339	**Variance**	19.3910183
Skewness	-0.53021	**Kurtosis**	-0.6750886
Uncorrected SS	170296.552	**Corrected SS**	5158.01085
Coeff Variation	17.7064589	**Std Error Mean**	0.26949125

Basic Statistical Measures			
Location		**Variability**	
Mean	24.86959	**Std Deviation**	4.40352
Median	25.70000	**Variance**	19.39102
Mode	23.30000	**Range**	20.74000
		Interquartile Range	6.89000

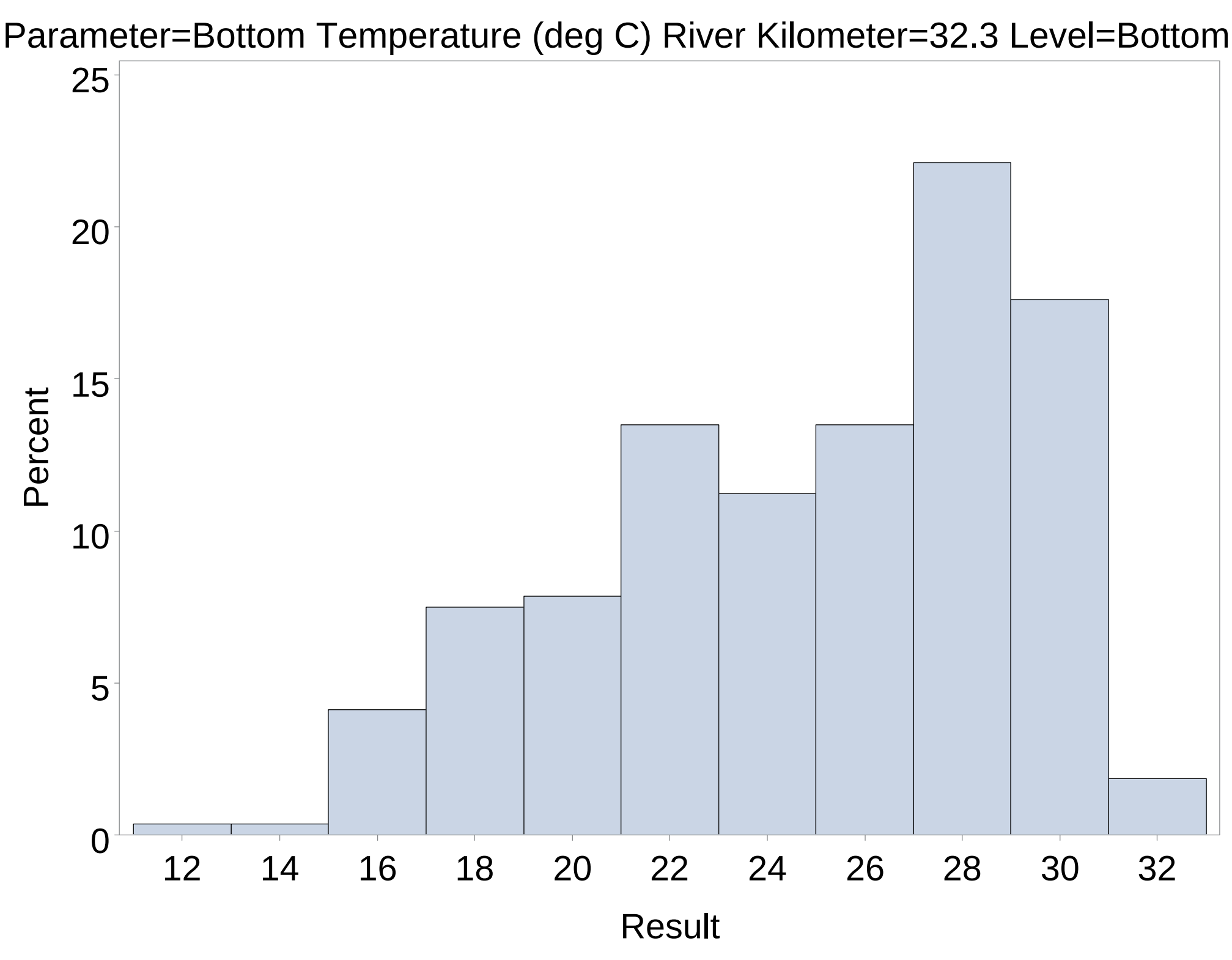
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	92.28347	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.51
99%	31.86
95%	30.40
90%	29.80
75% Q3	28.59
50% Median	25.70
25% Q1	21.70
10%	18.42
5%	17.00
1%	15.00
0% Min	11.77

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Bottom Temperature (deg C) River Kilometer=32.3 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.77	84675	31.10	84730
13.54	84580	31.20	84752
15.00	84736	31.86	84621
15.05	84510	32.46	84670
15.54	84628	32.51	84681


Parameter=Bottom Temperature (deg C) River Kilometer=32.3 Level=Bottom
Percent
0
5
10
15
20
25
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=-2.4 Level=Surface

Moments			
N	311	**Sum Weights**	311
Mean	24.5196141	**Sum Observations**	7625.6
Std Deviation	4.54906476	**Variance**	20.6939902
Skewness	-0.2788348	**Kurtosis**	-1.082074
Uncorrected SS	193391.907	**Corrected SS**	6415.13695
Coeff Variation	18.5527583	**Std Error Mean**	0.2579538

Basic Statistical Measures			
Location		**Variability**	
Mean	24.51961	**Std Deviation**	4.54906
Median	24.68000	**Variance**	20.69399
Mode	23.80000	**Range**	19.38000
		Interquartile Range	7.91000

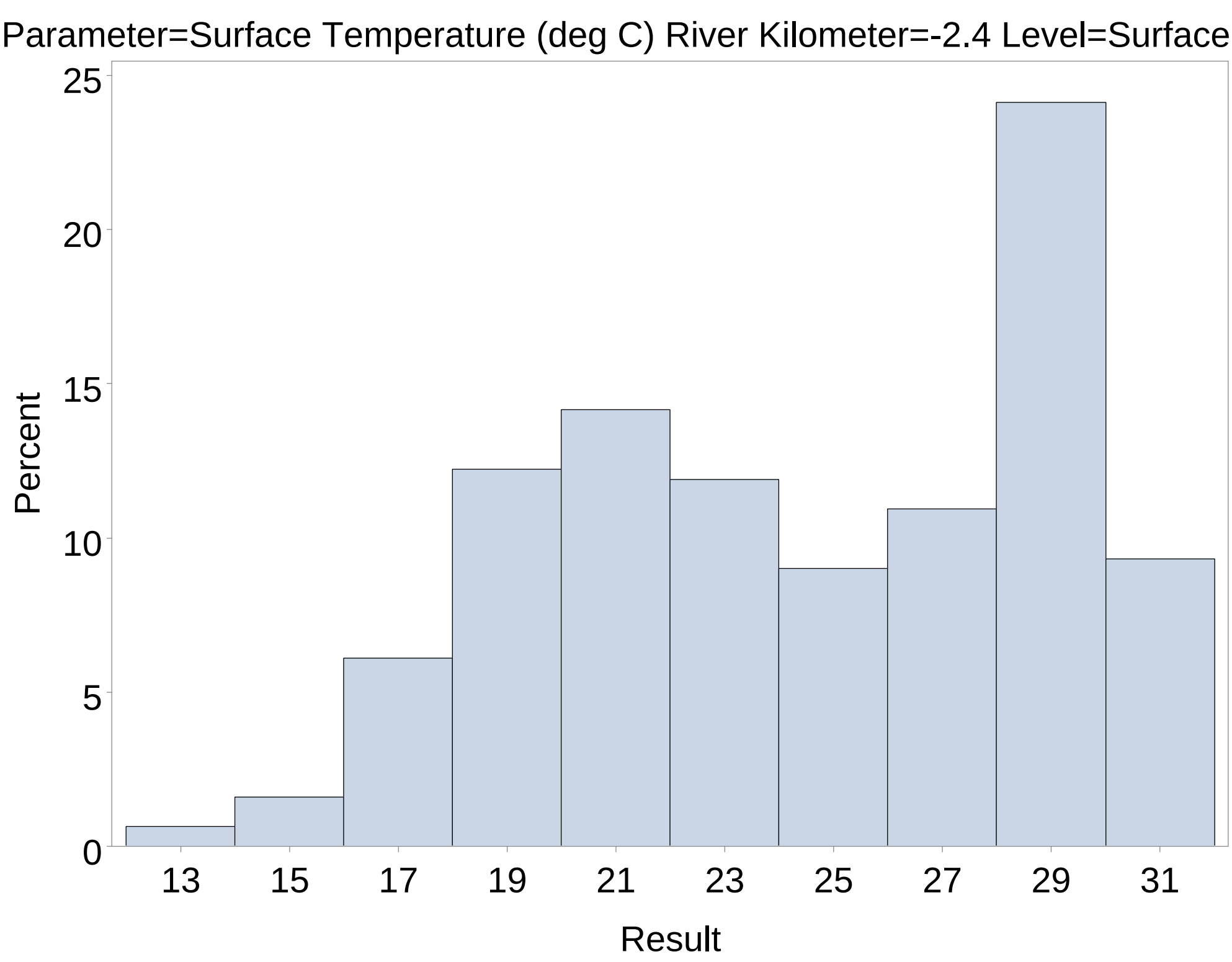
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	95.05429	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.78
99%	31.50
95%	30.60
90%	29.94
75% Q3	28.70
50% Median	24.68
25% Q1	20.79
10%	18.25
5%	17.28
1%	15.55
0% Min	12.40

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.40	84986	31.34	84794
12.88	84892	31.50	84840
15.27	84782	31.58	84815
15.55	84977	31.70	84839
15.61	84804	31.78	85029


Parameter=Surface Temperature (deg C) River Kilometer=-2.4 Level=Surface
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=6.6 Level=Surface

Moments			
N	315	**Sum Weights**	315
Mean	24.7152063	**Sum Observations**	7785.29
Std Deviation	4.55132824	**Variance**	20.7145887
Skewness	-0.3255588	**Kurtosis**	-0.9653292
Uncorrected SS	198919.43	**Corrected SS**	6504.38086
Coeff Variation	18.415093	**Std Error Mean**	0.2564383

Basic Statistical Measures			
Location		**Variability**	
Mean	24.71521	**Std Deviation**	4.55133
Median	25.23000	**Variance**	20.71459
Mode	29.50000	**Range**	20.85000
		Interquartile Range	7.65000

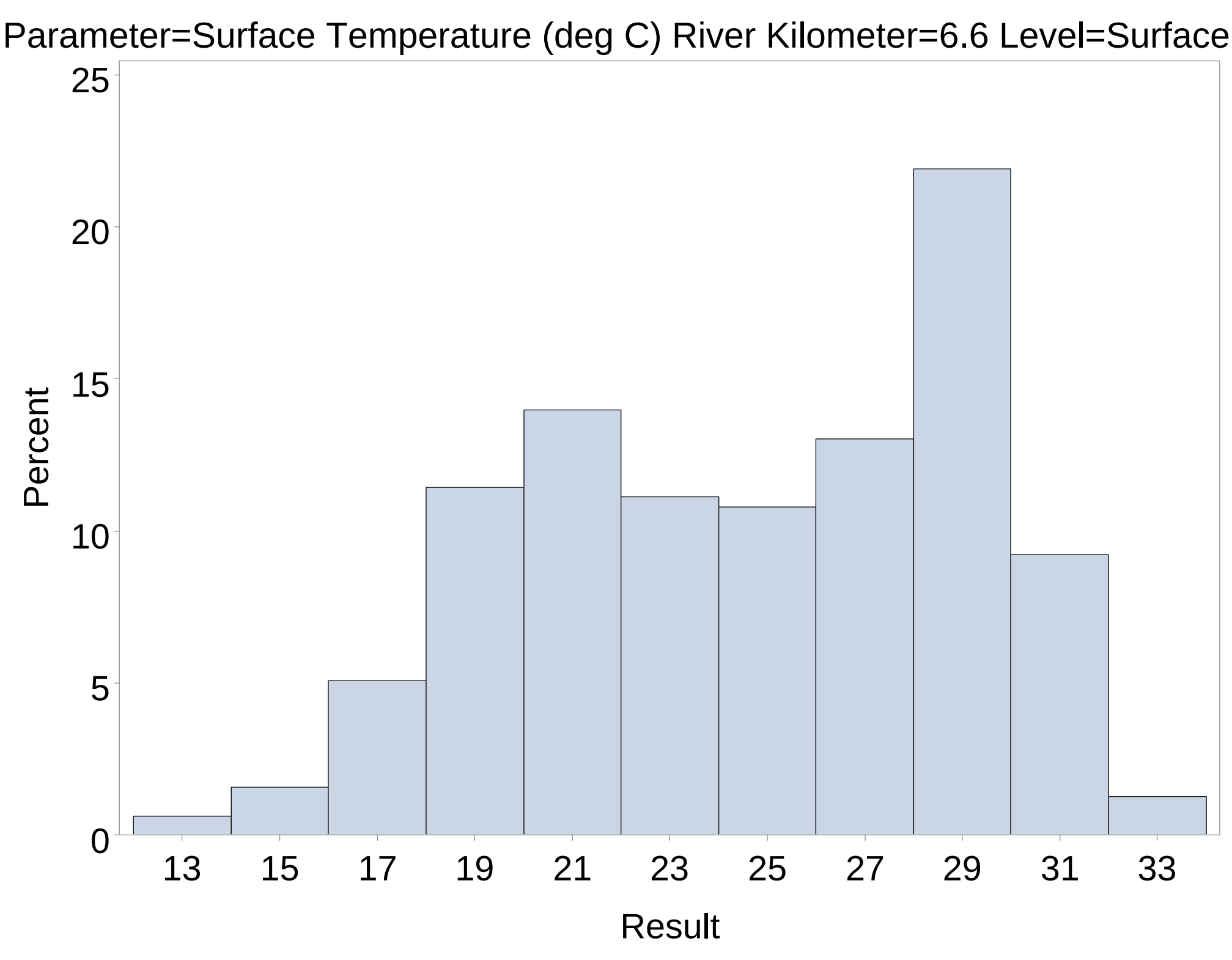
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	96.37877	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.20
99%	32.14
95%	30.74
90%	30.03
75% Q3	28.80
50% Median	25.23
25% Q1	21.15
10%	18.60
5%	16.76
1%	15.27
0% Min	12.35

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.35	85301	31.70	85153
13.49	85206	32.14	85126
15.22	85093	32.25	85296
15.27	85230	32.30	85152
15.29	85254	33.20	85343


Parameter=Surface Temperature (deg C) River Kilometer=6.6 Level=Surface
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=8.4 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	24.8682156	**Sum Observations**	6689.55
Std Deviation	4.53217574	**Variance**	20.540617
Skewness	-0.3422975	**Kurtosis**	-0.9430597
Uncorrected SS	171862.057	**Corrected SS**	5504.88534
Coeff Variation	18.2247726	**Std Error Mean**	0.27633163

Basic Statistical Measures			
Location		**Variability**	
Mean	24.86822	**Std Deviation**	4.53218
Median	25.32000	**Variance**	20.54062
Mode	21.70000	**Range**	19.58000
		Interquartile Range	7.31000

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

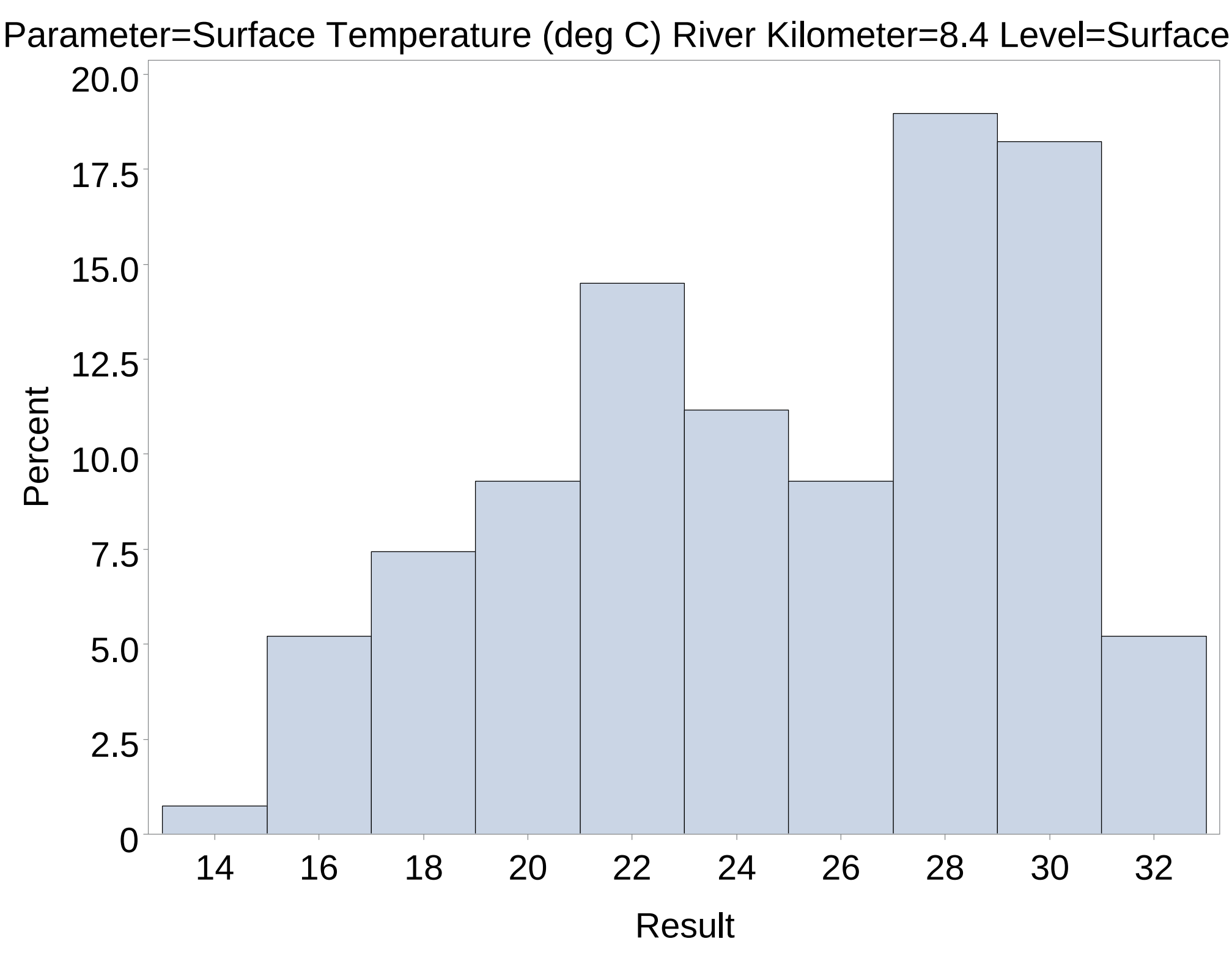
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	89.9941	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.97
99%	32.00
95%	31.01
90%	30.20
75% Q3	28.81
50% Median	25.32
25% Q1	21.50
10%	18.61
5%	16.70
1%	15.41
0% Min	13.39

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=8.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.39	85570	31.90	85433
14.14	85475	32.00	85625
15.41	85499	32.00	85638
15.47	85450	32.60	85565
15.74	85486	32.97	85612


Parameter=Surface Temperature (deg C) River Kilometer=8.4 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=10.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	24.9477695	**Sum Observations**	6710.95
Std Deviation	4.48223344	**Variance**	20.0904166
Skewness	-0.3710352	**Kurtosis**	-0.8178281
Uncorrected SS	172807.466	**Corrected SS**	5384.23166
Coeff Variation	17.9664697	**Std Error Mean**	0.2732866

Basic Statistical Measures			
Location		**Variability**	
Mean	24.94777	**Std Deviation**	4.48223
Median	25.33000	**Variance**	20.09042
Mode	21.50000	**Range**	21.06000
		Interquartile Range	7.30000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

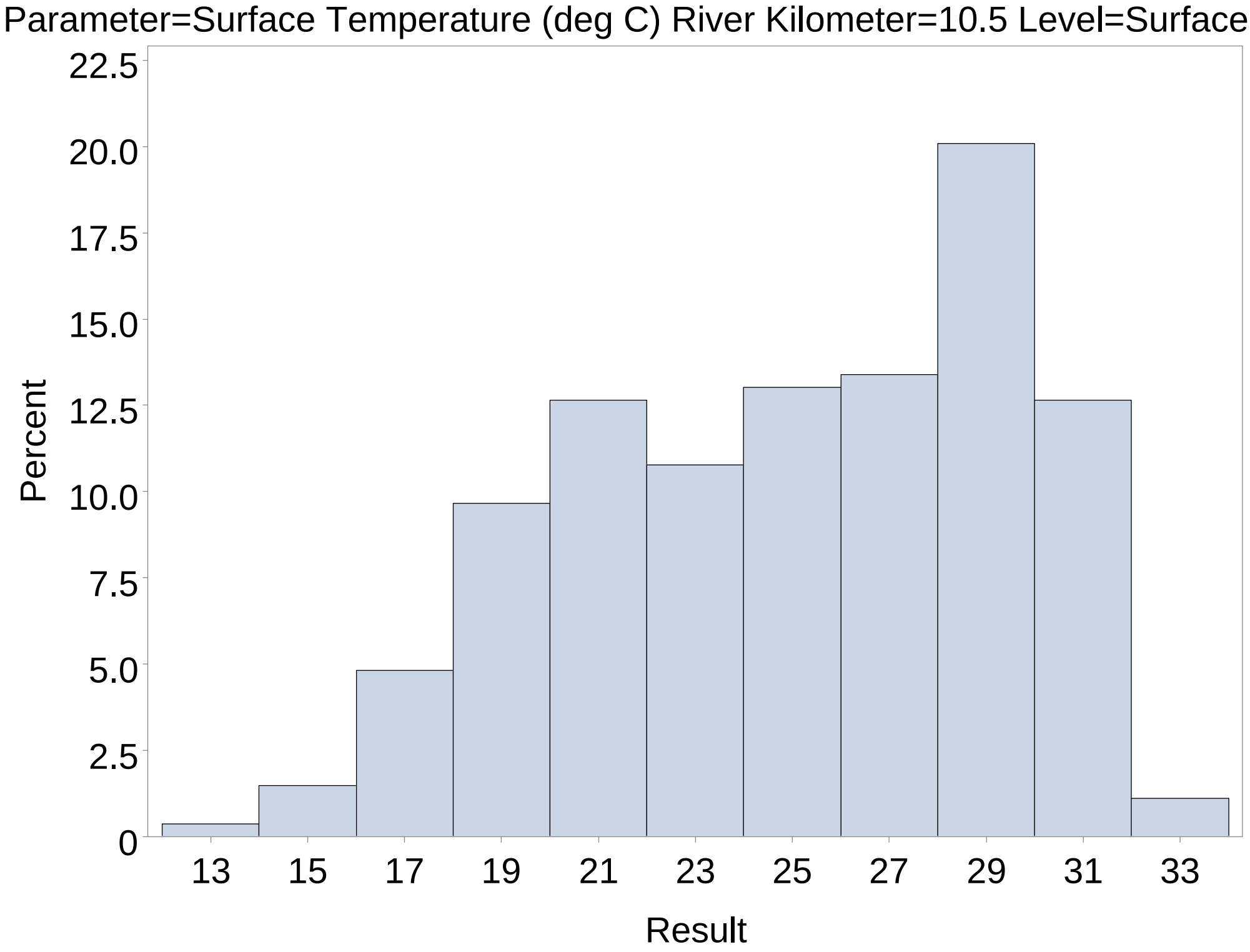
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	91.28794	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.08
99%	32.10
95%	30.85
90%	30.38
75% Q3	28.80
50% Median	25.33
25% Q1	21.50
10%	18.90
5%	17.04
1%	14.85
0% Min	12.02

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=10.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.02	85839	31.69	85739
14.54	85744	31.70	85907
14.85	85719	32.10	85702
14.97	85768	32.66	85881
15.73	85767	33.08	85834


Parameter=Surface Temperature (deg C) River Kilometer=10.5 Level=Surface
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=12.7 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	25.0133829	**Sum Observations**	6728.6
Std Deviation	4.45784292	**Variance**	19.8723635
Skewness	-0.3782708	**Kurtosis**	-0.8184011
Uncorrected SS	173630.842	**Corrected SS**	5325.79342
Coeff Variation	17.8218314	**Std Error Mean**	0.27179948

Basic Statistical Measures			
Location		**Variability**	
Mean	25.01338	**Std Deviation**	4.45784
Median	25.25000	**Variance**	19.87236
Mode	27.60000	**Range**	19.94000
		Interquartile Range	7.35000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

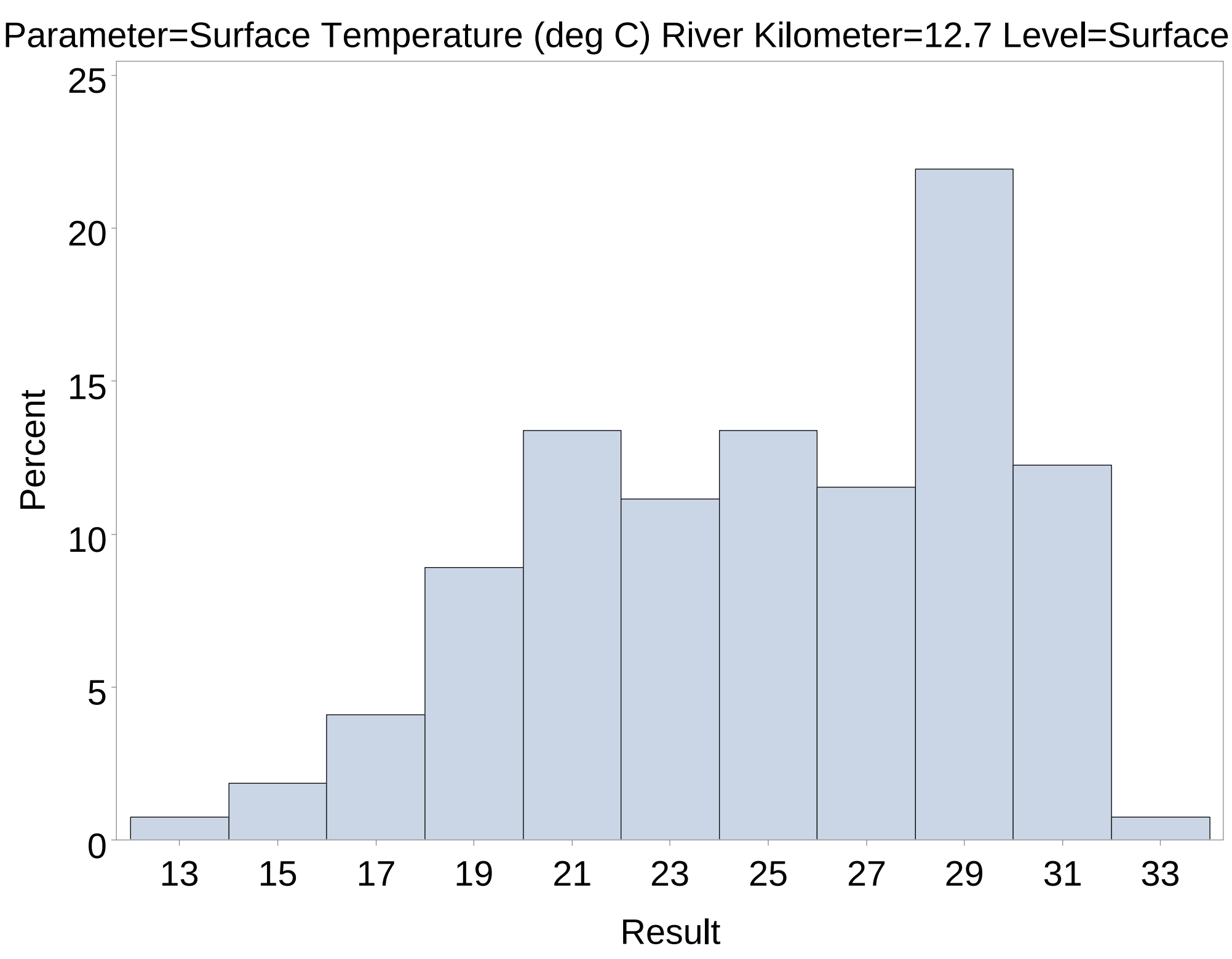
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	92.02881	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.72
99%	31.92
95%	30.99
90%	30.44
75% Q3	29.01
50% Median	25.25
25% Q1	21.66
10%	18.88
5%	17.31
1%	15.13
0% Min	12.78

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=12.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.78	86108	31.60	86114
13.54	86013	31.90	86163
15.13	86037	31.92	86008
15.36	85988	32.40	85971
15.60	86169	32.72	86103


Parameter=Surface Temperature (deg C) River Kilometer=12.7 Level=Surface
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=12.8 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	25.0161338	**Sum Observations**	6729.34
Std Deviation	4.41965031	**Variance**	19.5333089
Skewness	-0.3771088	**Kurtosis**	-0.820296
Uncorrected SS	173576.997	**Corrected SS**	5234.92678
Coeff Variation	17.6671997	**Std Error Mean**	0.26947084

Basic Statistical Measures			
Location		**Variability**	
Mean	25.01613	**Std Deviation**	4.41965
Median	25.31000	**Variance**	19.53331
Mode	21.10000	**Range**	19.30000
		Interquartile Range	7.26000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

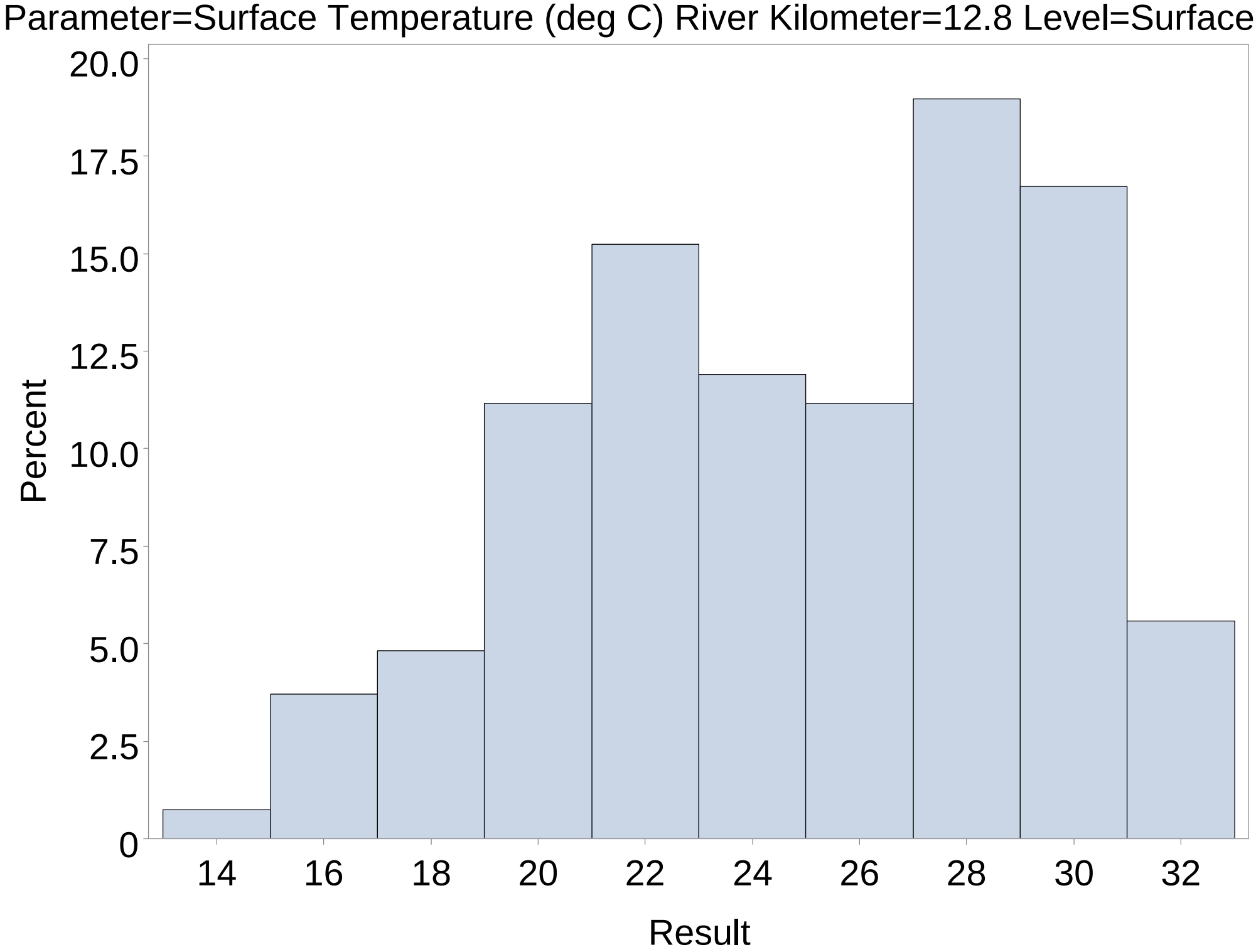
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	92.83429	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.40
99%	32.19
95%	31.00
90%	30.30
75% Q3	28.76
50% Median	25.31
25% Q1	21.50
10%	19.03
5%	17.10
1%	15.02
0% Min	13.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=12.8 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.10	86377	31.50	86469
13.83	86282	31.94	86277
15.02	86257	32.19	86419
15.40	86423	32.32	86372
15.80	86306	32.40	86240


Parameter=Surface Temperature (deg C) River Kilometer=12.8 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=15.5 Level=Surface

Moments			
N	316	**Sum Weights**	316
Mean	25.1721071	**Sum Observations**	7954.38583
Std Deviation	4.39431671	**Variance**	19.3100193
Skewness	-0.3661012	**Kurtosis**	-0.8803429
Uncorrected SS	206311.308	**Corrected SS**	6082.65609
Coeff Variation	17.4570873	**Std Error Mean**	0.24719963

Basic Statistical Measures			
Location		**Variability**	
Mean	25.17211	**Std Deviation**	4.39432
Median	25.58000	**Variance**	19.31002
Mode	28.70000	**Range**	19.48000
		Interquartile Range	7.09833

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

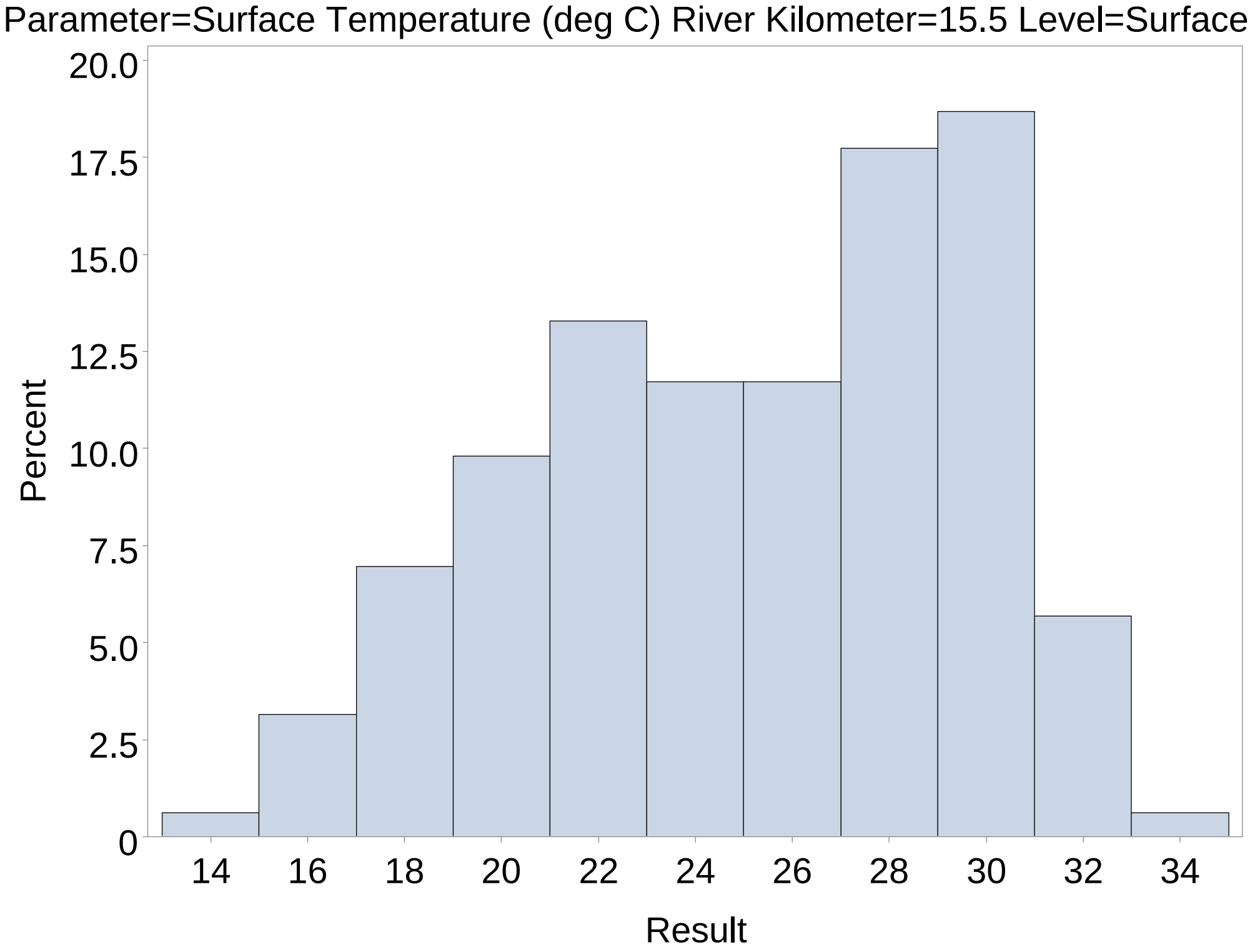
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	101.8291	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.3500
99%	31.9100
95%	31.2000
90%	30.4200
75% Q3	28.9150
50% Median	25.5800
25% Q1	21.8167
10%	18.9000
5%	17.7100
1%	15.8000
0% Min	13.8700

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.87	86693	31.6000	86759
14.08	86598	31.9100	86699
15.58	86484	31.9333	86545
15.80	86754	33.0400	86688
15.82	86573	33.3500	86518


Parameter=Surface Temperature (deg C) River Kilometer=15.5 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=17.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	25.2644981	**Sum Observations**	6796.15
Std Deviation	4.36975061	**Variance**	19.0947204
Skewness	-0.4009734	**Kurtosis**	-0.8547865
Uncorrected SS	176818.704	**Corrected SS**	5117.38506
Coeff Variation	17.2960119	**Std Error Mean**	0.2664284

Basic Statistical Measures			
Location		**Variability**	
Mean	25.26450	**Std Deviation**	4.36975
Median	25.75000	**Variance**	19.09472
Mode	22.80000	**Range**	18.98000
		Interquartile Range	6.94000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

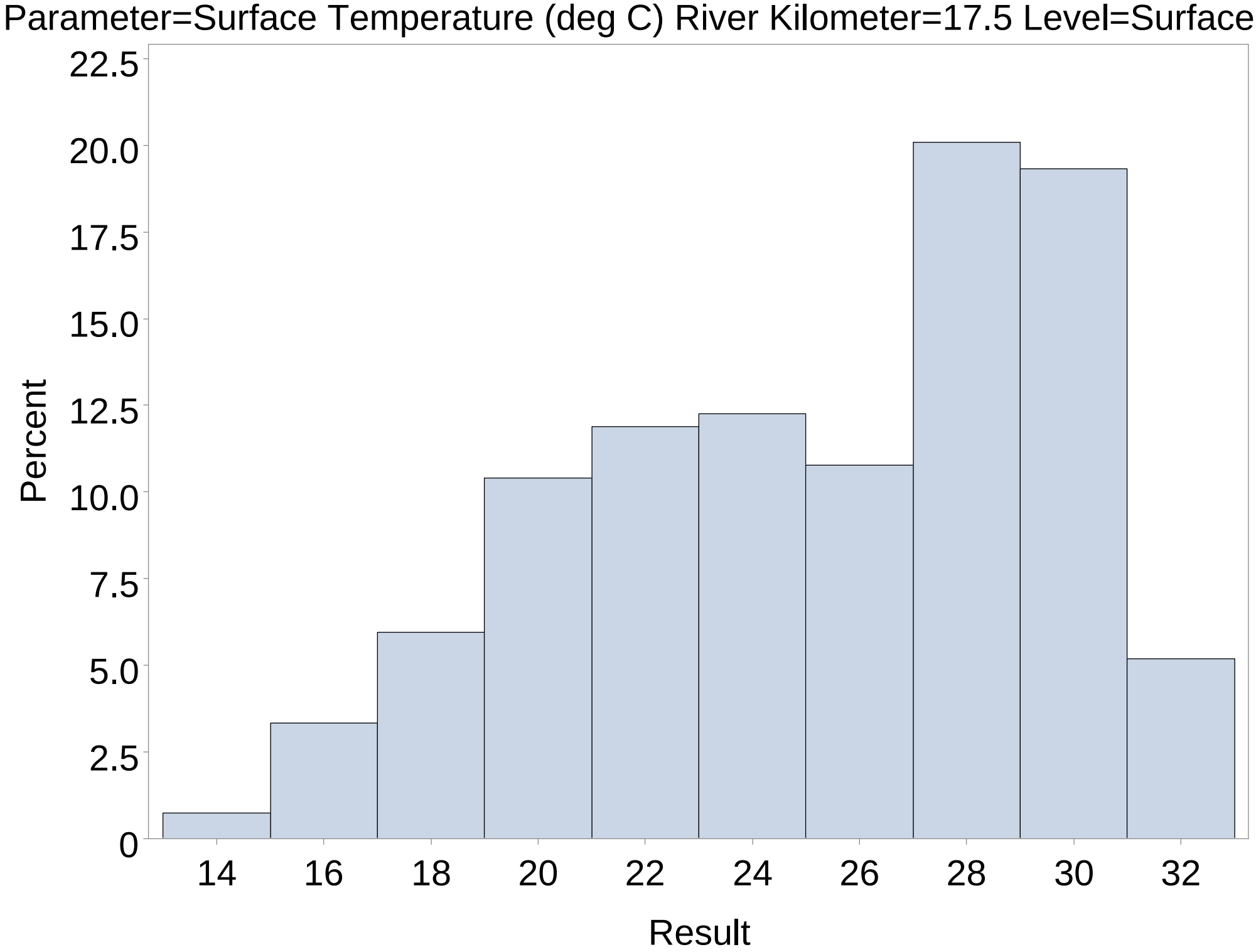
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	94.8266	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.72
99%	32.56
95%	31.04
90%	30.45
75% Q3	28.90
50% Median	25.75
25% Q1	21.96
10%	18.97
5%	17.39
1%	15.40
0% Min	13.74

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=17.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.74	86867	31.88	86968
14.95	86962	32.10	87028
15.40	87023	32.56	86957
16.02	86891	32.60	86825
16.14	86806	32.72	87004


Parameter=Surface Temperature (deg C) River Kilometer=17.5 Level=Surface
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=20.1 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	25.2889219	**Sum Observations**	6802.72
Std Deviation	4.39774297	**Variance**	19.3401432
Skewness	-0.4258475	**Kurtosis**	-0.8414291
Uncorrected SS	177216.613	**Corrected SS**	5183.15839
Coeff Variation	17.3899978	**Std Error Mean**	0.26813512

Basic Statistical Measures			
Location		**Variability**	
Mean	25.28892	**Std Deviation**	4.39774
Median	25.83000	**Variance**	19.34014
Mode	23.30000	**Range**	20.12000
		Interquartile Range	7.15000

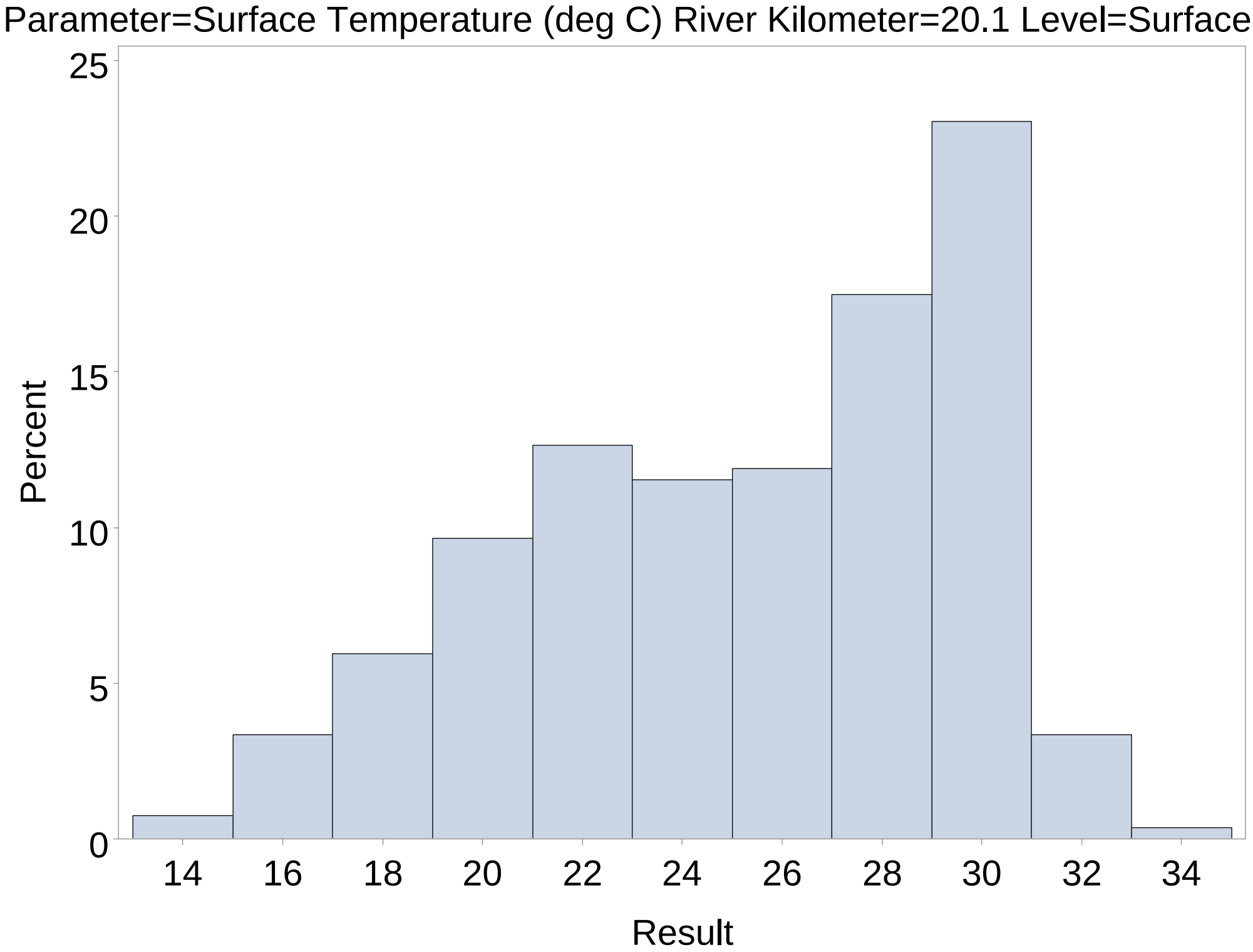
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	94.3141	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.02
99%	31.89
95%	30.89
90%	30.50
75% Q3	29.20
50% Median	25.83
25% Q1	22.05
10%	18.97
5%	17.60
1%	15.50
0% Min	13.90

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=20.1 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.90	87136	31.56	87177
14.44	87231	31.76	87237
15.50	87292	31.89	87273
15.95	87160	32.00	87094
16.15	87075	34.02	87226


Parameter=Surface Temperature (deg C) River Kilometer=20.1 Level=Surface
Percent
25
20
15
10
5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=21.9 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	25.1979182	**Sum Observations**	6778.24
Std Deviation	4.38819908	**Variance**	19.2562912
Skewness	-0.412219	**Kurtosis**	-0.8456357
Uncorrected SS	175958.223	**Corrected SS**	5160.68603
Coeff Variation	17.4149271	**Std Error Mean**	0.26755322

Basic Statistical Measures			
Location		**Variability**	
Mean	25.19792	**Std Deviation**	4.38820
Median	25.90000	**Variance**	19.25629
Mode	29.80000	**Range**	19.29000
		Interquartile Range	7.10000

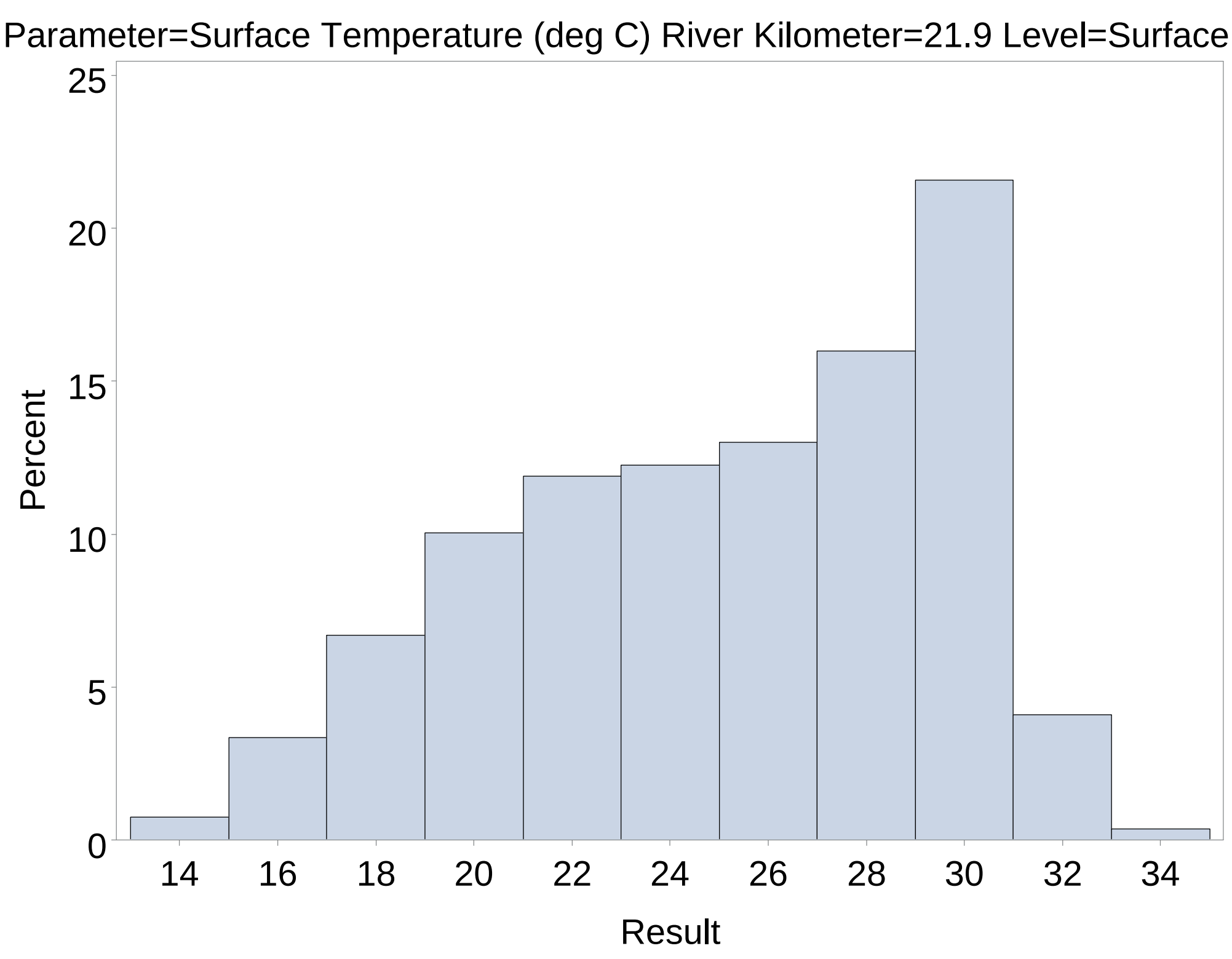
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	94.17909	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.15
99%	32.05
95%	30.99
90%	30.37
75% Q3	29.10
50% Median	25.90
25% Q1	22.00
10%	18.74
5%	17.72
1%	15.10
0% Min	13.86

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=21.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.86	87405	31.84	87542
14.05	87500	32.04	87446
15.10	87561	32.05	87506
16.12	87344	32.79	87400
16.21	87428	33.15	87495


Parameter=Surface Temperature (deg C) River Kilometer=21.9 Level=Surface
Percent
25
20
15
10
5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=23.6 Level=Surface

Moments			
N	315	**Sum Weights**	315
Mean	25.2185079	**Sum Observations**	7943.83
Std Deviation	4.38706386	**Variance**	19.2463293
Skewness	-0.4101763	**Kurtosis**	-0.8528907
Uncorrected SS	206374.887	**Corrected SS**	6043.3474
Coeff Variation	17.3962071	**Std Error Mean**	0.24718305

Basic Statistical Measures			
Location		**Variability**	
Mean	25.21851	**Std Deviation**	4.38706
Median	25.60000	**Variance**	19.24633
Mode	29.30000	**Range**	19.91000
		Interquartile Range	7.21000

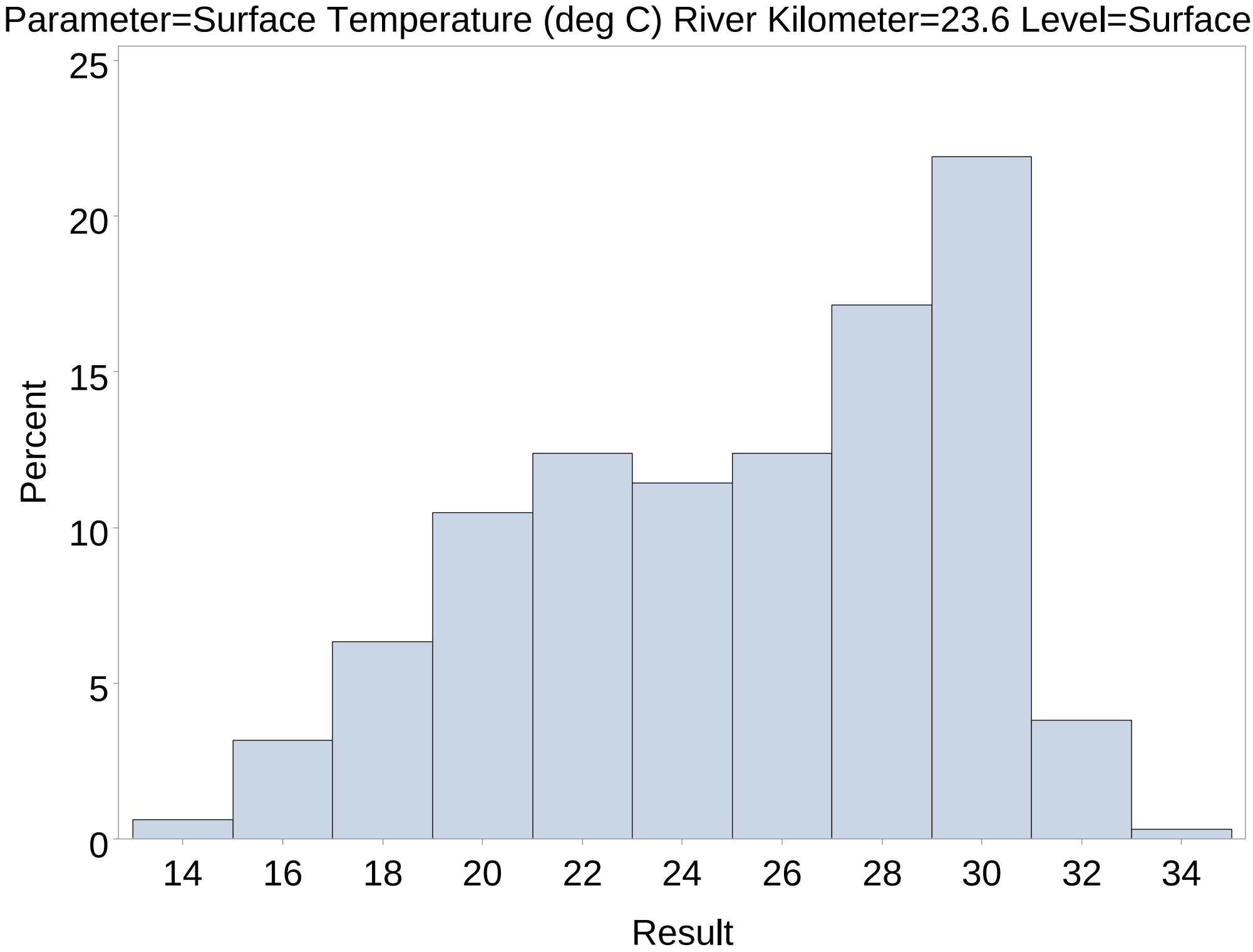
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	102.0236	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.66
99%	32.11
95%	30.86
90%	30.48
75% Q3	29.10
50% Median	25.60
25% Q1	21.89
10%	18.90
5%	17.47
1%	15.87
0% Min	13.75

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.75	87720	31.67	87857
14.20	87815	32.11	87761
15.10	87876	32.48	87640
15.87	87607	32.48	87821
16.14	87630	33.66	87810


Parameter=Surface Temperature (deg C) River Kilometer=23.6 Level=Surface
Percent
25
20
15
10
5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=24.7 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	25.2935688	**Sum Observations**	6803.97
Std Deviation	4.43612005	**Variance**	19.6791611
Skewness	-0.4233823	**Kurtosis**	-0.8079412
Uncorrected SS	177370.698	**Corrected SS**	5274.01517
Coeff Variation	17.5385296	**Std Error Mean**	0.27047501

Basic Statistical Measures			
Location		**Variability**	
Mean	25.29357	**Std Deviation**	4.43612
Median	26.00000	**Variance**	19.67916
Mode	28.90000	**Range**	20.56000
		Interquartile Range	6.95000

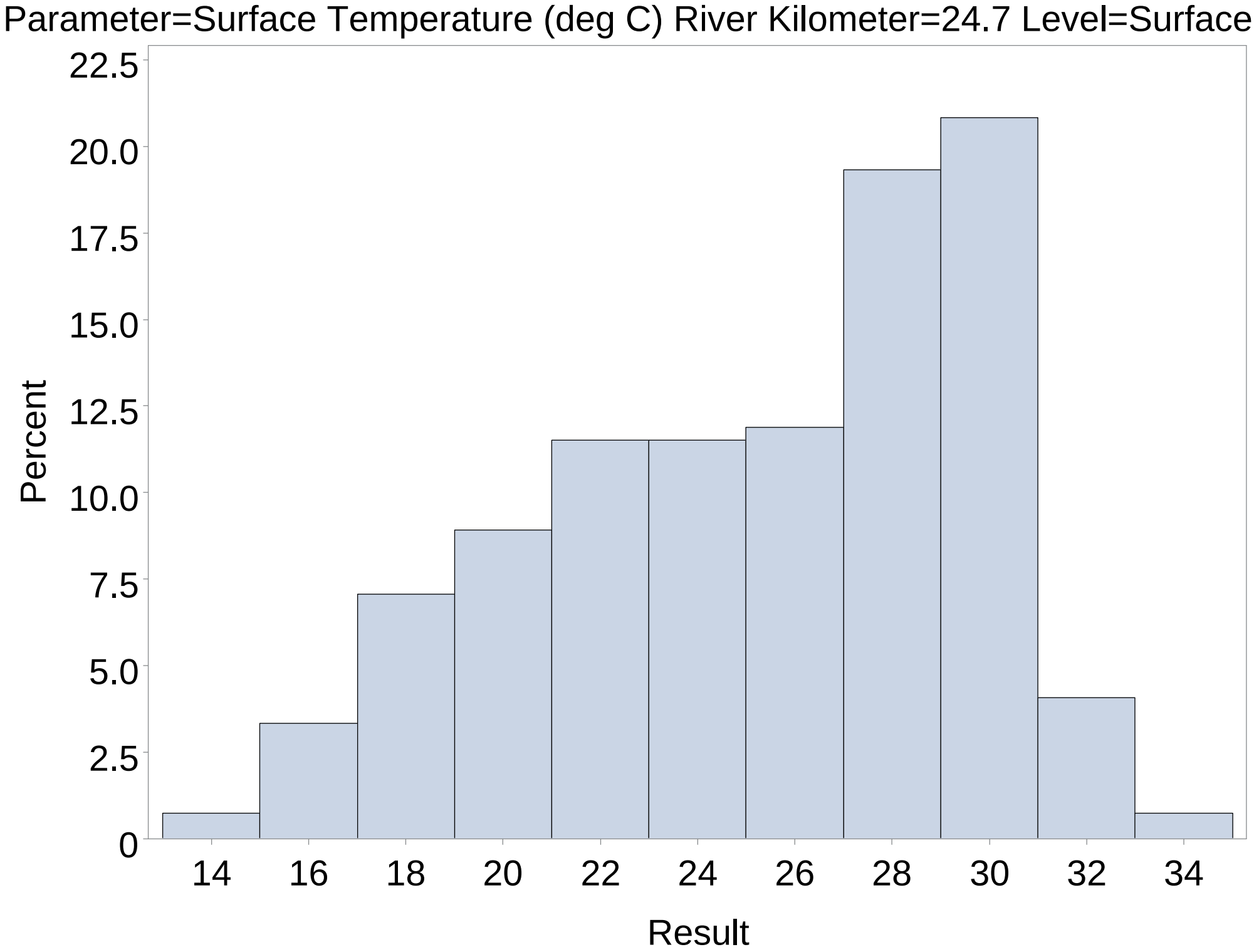
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	93.51536	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.70
99%	32.89
95%	30.87
90%	30.50
75% Q3	29.01
50% Median	26.00
25% Q1	22.06
10%	18.88
5%	17.29
1%	15.00
0% Min	14.14

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=24.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
14.14	87989	31.90	88150
14.28	88084	32.36	88079
15.00	88145	32.89	88090
16.14	87928	33.39	88126
16.24	87917	34.70	87984


Parameter=Surface Temperature (deg C) River Kilometer=24.7 Level=Surface
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=25.9 Level=Surface

Moments			
N	268	**Sum Weights**	268
Mean	25.2781716	**Sum Observations**	6774.55
Std Deviation	4.47129656	**Variance**	19.9924929
Skewness	-0.4006748	**Kurtosis**	-0.7823223
Uncorrected SS	176586.233	**Corrected SS**	5337.9956
Coeff Variation	17.6883701	**Std Error Mean**	0.27312791

Basic Statistical Measures			
Location		**Variability**	
Mean	25.27817	**Std Deviation**	4.47130
Median	26.01500	**Variance**	19.99249
Mode	29.20000	**Range**	20.27000
		Interquartile Range	7.07500

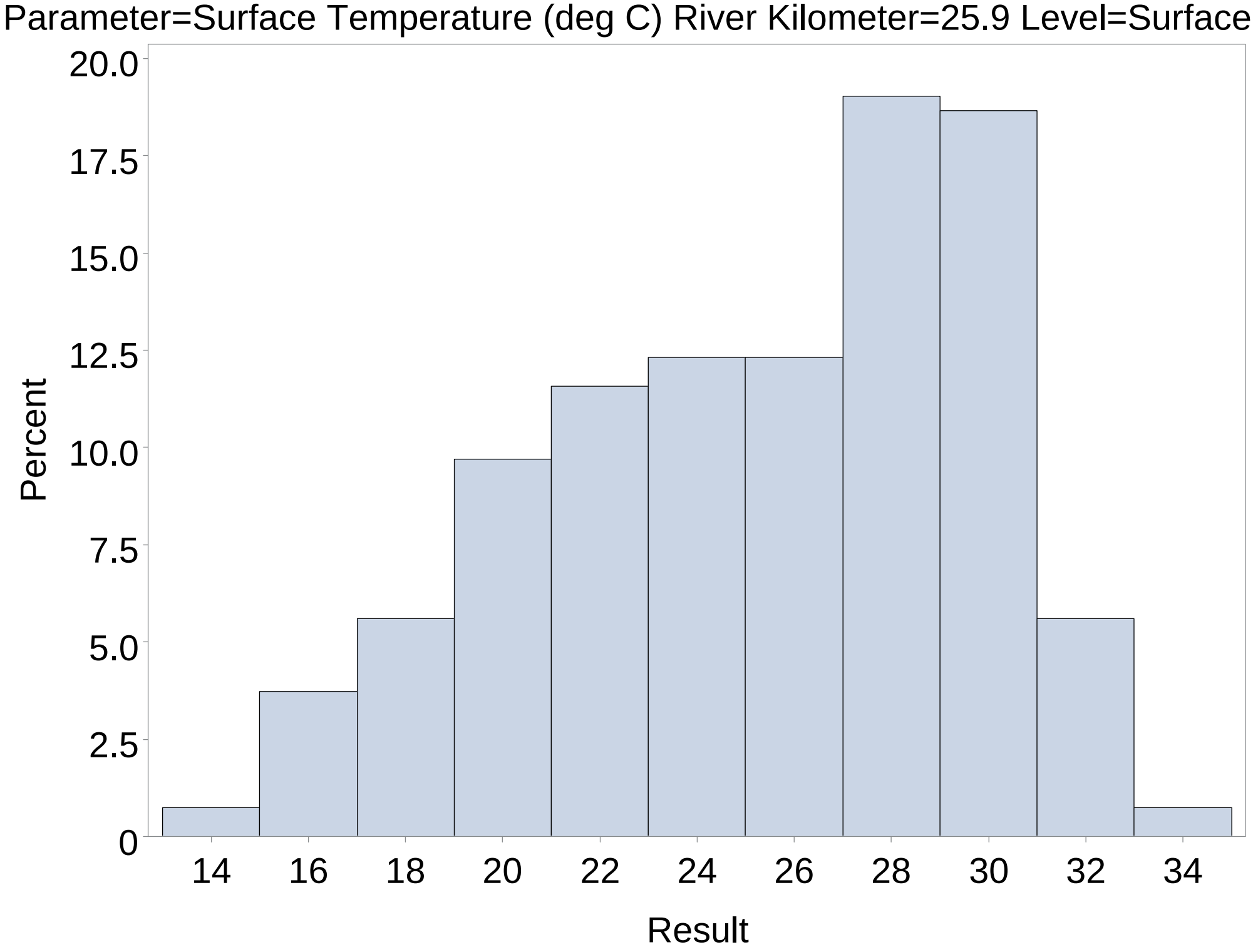
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	92.55067	**Pr > |t|**	<.0001
Sign	**M**	134	**Pr >= |M|**	<.0001
Signed Rank	**S**	18023	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.130
99%	32.650
95%	31.530
90%	30.450
75% Q3	28.995
50% Median	26.015
25% Q1	21.920
10%	18.700
5%	17.700
1%	15.000
0% Min	13.860

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=25.9 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.86	88257	32.60	88215
14.26	88352	32.63	88298
15.00	88413	32.65	88394
16.03	88186	33.44	88347
16.15	88197	34.13	88252


Parameter=Surface Temperature (deg C) River Kilometer=25.9 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=29.5 Level=Surface

Moments			
N	269	**Sum Weights**	269
Mean	25.2166914	**Sum Observations**	6783.29
Std Deviation	4.52790871	**Variance**	20.5019573
Skewness	-0.4498357	**Kurtosis**	-0.7875933
Uncorrected SS	176546.656	**Corrected SS**	5494.52456
Coeff Variation	17.9559984	**Std Error Mean**	0.27607147

Basic Statistical Measures			
Location		**Variability**	
Mean	25.21669	**Std Deviation**	4.52791
Median	26.07000	**Variance**	20.50196
Mode	28.30000	**Range**	20.17000
		Interquartile Range	7.20000

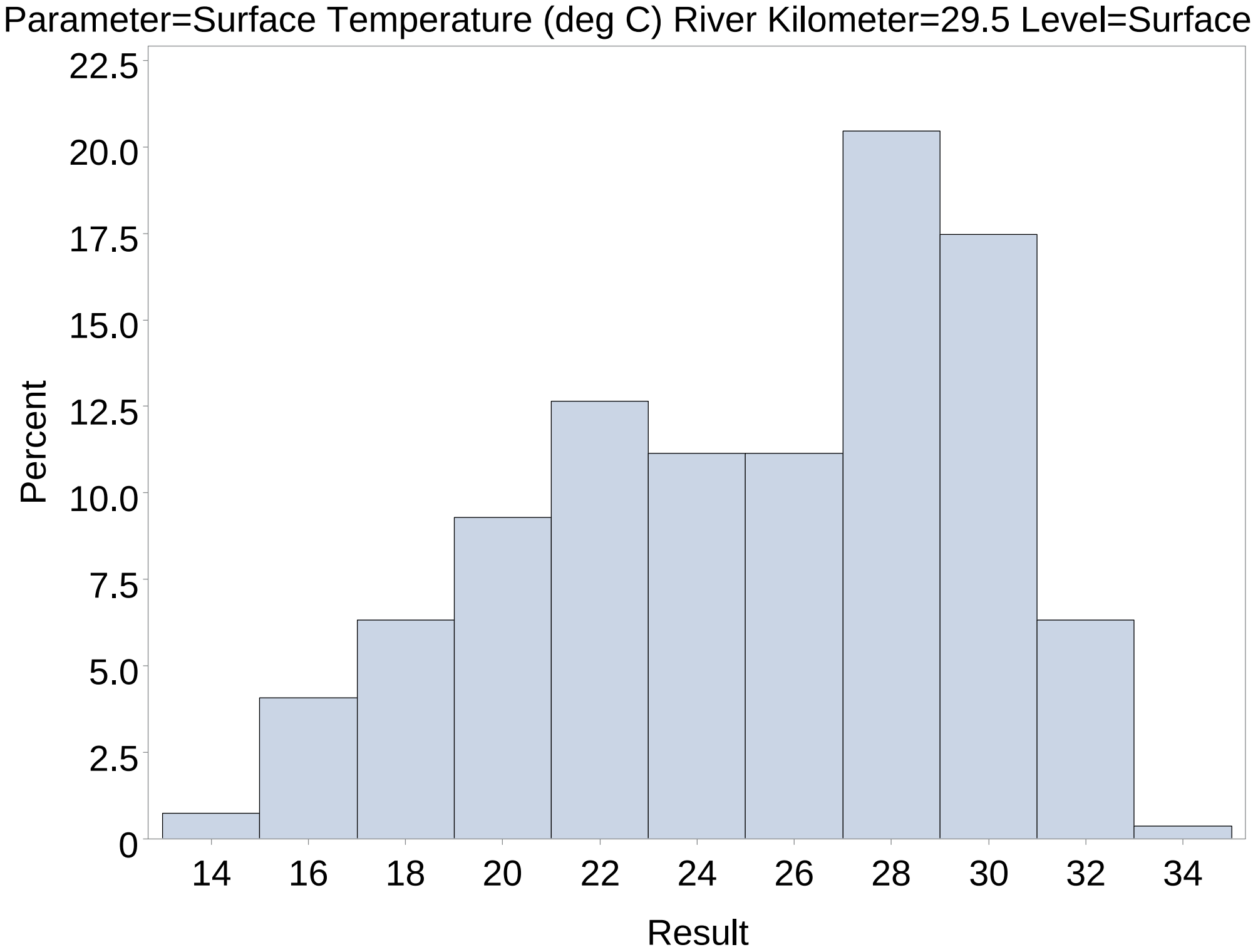
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	91.34117	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.67
99%	32.41
95%	31.31
90%	30.28
75% Q3	28.90
50% Median	26.07
25% Q1	21.70
10%	18.50
5%	17.13
1%	15.00
0% Min	13.50

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=29.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.50	88526	32.37	88569
13.67	88621	32.40	88627
15.00	88682	32.41	88567
15.68	88454	32.51	88581
15.97	88609	33.67	88616


Parameter=Surface Temperature (deg C) River Kilometer=29.5 Level=Surface
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=30.7 Level=Surface

Moments			
N	316	**Sum Weights**	316
Mean	25.0910443	**Sum Observations**	7928.77
Std Deviation	4.46652244	**Variance**	19.9498227
Skewness	-0.4280562	**Kurtosis**	-0.7768556
Uncorrected SS	205225.314	**Corrected SS**	6284.19416
Coeff Variation	17.8012616	**Std Error Mean**	0.25126152

Basic Statistical Measures			
Location		**Variability**	
Mean	25.09104	**Std Deviation**	4.46652
Median	25.77000	**Variance**	19.94982
Mode	28.00000	**Range**	20.97000
		Interquartile Range	7.22000

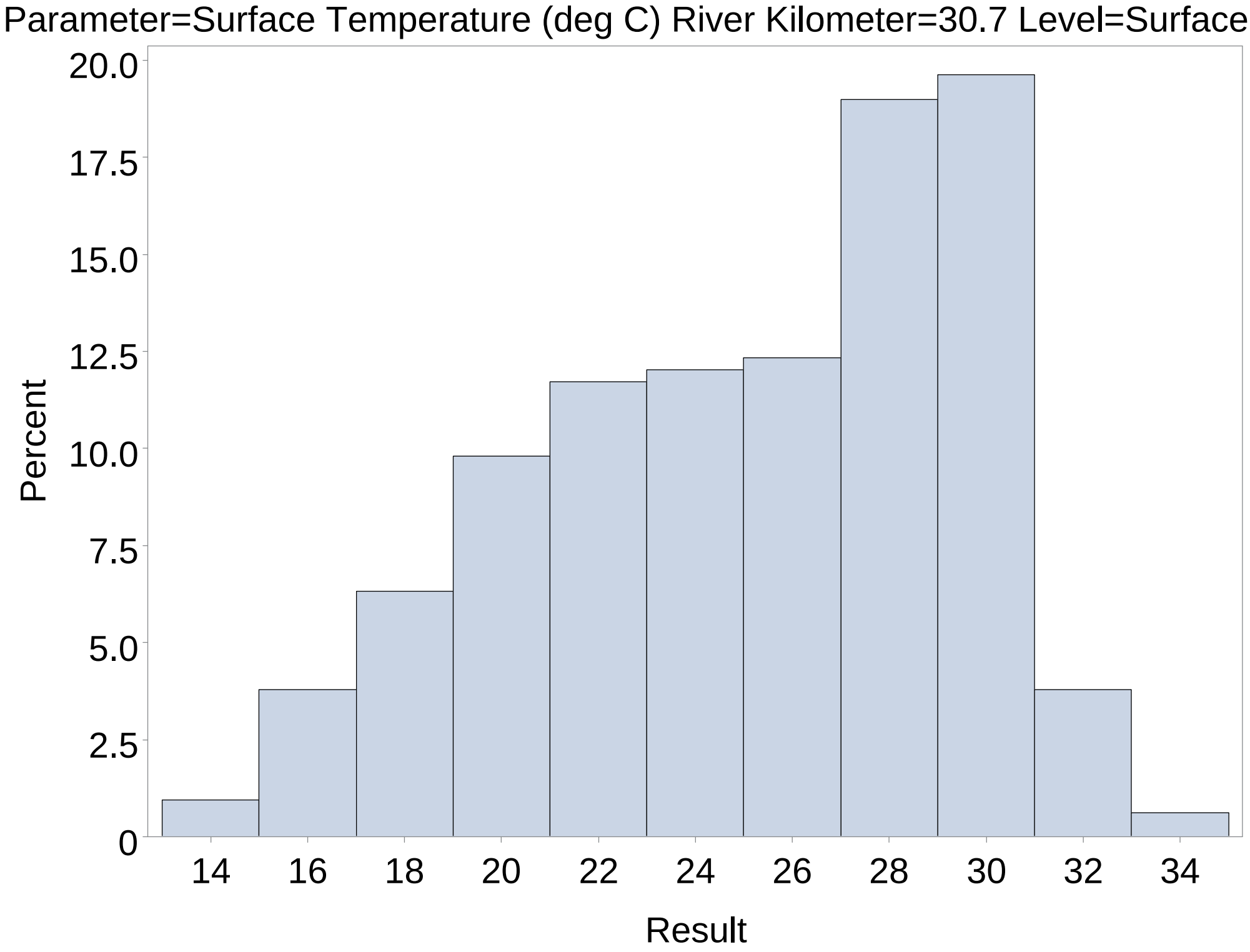
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	99.86028	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.32
99%	32.48
95%	30.91
90%	30.24
75% Q3	28.90
50% Median	25.77
25% Q1	21.68
10%	18.50
5%	17.31
1%	15.00
0% Min	13.35

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.35	88842	32.47	88943
13.96	88937	32.48	88762
14.93	88728	32.51	88883
15.00	88998	33.37	88932
15.35	88729	34.32	88885


Parameter=Surface Temperature (deg C) River Kilometer=30.7 Level=Surface
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=32.3 Level=Surface

Moments			
N	266	**Sum Weights**	266
Mean	25.1690226	**Sum Observations**	6694.96
Std Deviation	4.46952868	**Variance**	19.9766866
Skewness	-0.5131807	**Kurtosis**	-0.6714528
Uncorrected SS	173799.421	**Corrected SS**	5293.82195
Coeff Variation	17.7580542	**Std Error Mean**	0.27404439

Basic Statistical Measures			
Location		**Variability**	
Mean	25.16902	**Std Deviation**	4.46953
Median	26.02500	**Variance**	19.97669
Mode	19.30000	**Range**	20.75000
		Interquartile Range	6.97000

Note: The mode displayed is the smallest of 7 modes with a count of 3.

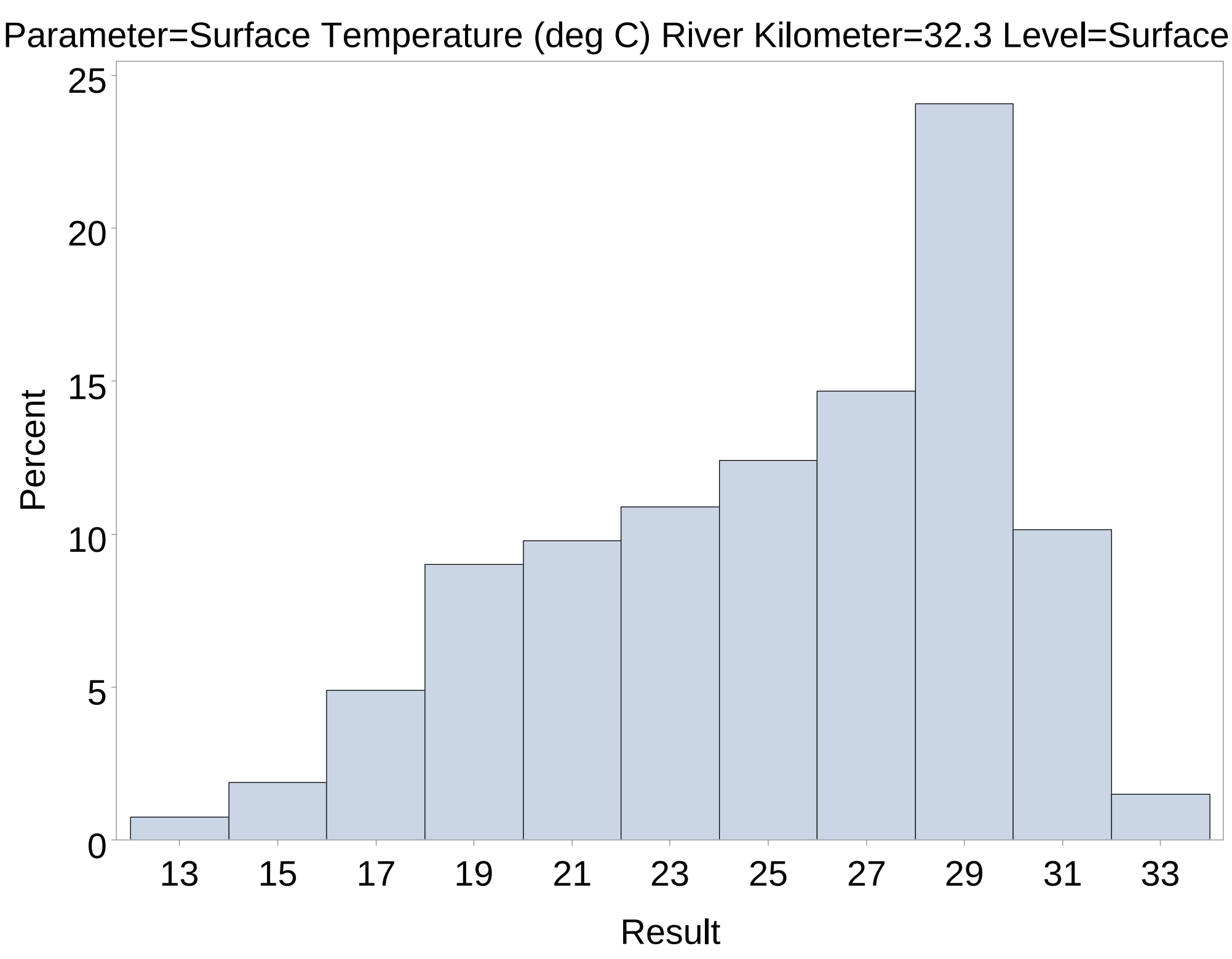
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	91.84287	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.340
99%	32.840
95%	30.810
90%	30.160
75% Q3	28.800
50% Median	26.025
25% Q1	21.830
10%	18.500
5%	17.490
1%	15.000
0% Min	12.590

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Surface Temperature (deg C) River Kilometer=32.3 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.59	89203	31.77	89247
13.55	89108	32.38	89163
15.00	89264	32.84	89209
15.65	89039	33.09	89149
15.68	89083	33.34	89198


Parameter=Surface Temperature (deg C) River Kilometer=32.3 Level=Surface
Percent
0
5
10
15
20
25
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	264	**Sum Weights**	264
Mean	0.58581818	**Sum Observations**	154.656
Std Deviation	0.41151691	**Variance**	0.16934616
Skewness	6.72311687	**Kurtosis**	74.3151507
Uncorrected SS	135.138338	**Corrected SS**	44.5380413
Coeff Variation	70.2465235	**Std Error Mean**	0.02532711

Basic Statistical Measures			
Location		**Variability**	
Mean	0.585818	**Std Deviation**	0.41152
Median	0.537500	**Variance**	0.16935
Mode	0.540000	**Range**	5.37000
		Interquartile Range	0.32650

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.13008	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

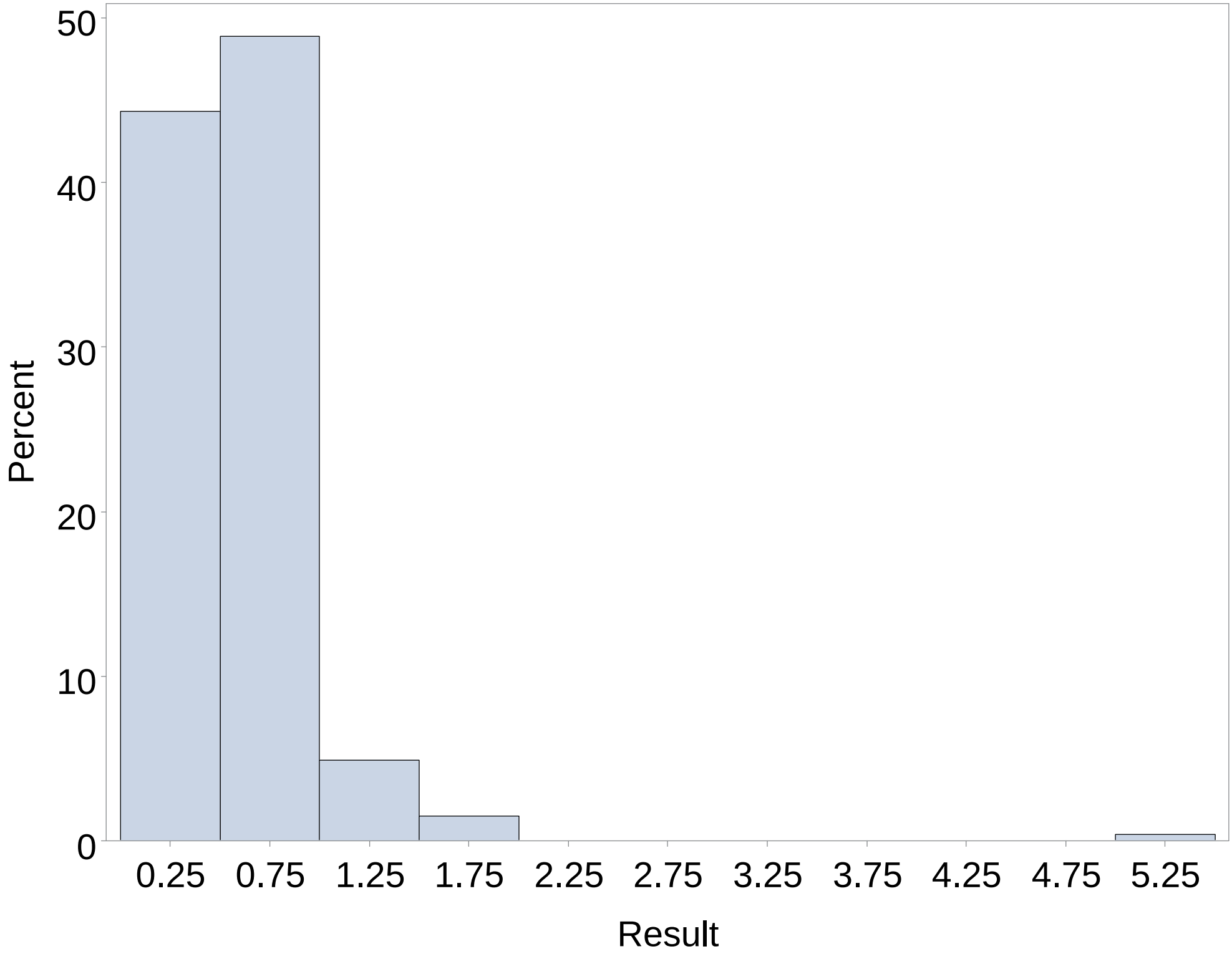
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.4500
99%	1.7400
95%	1.0700
90%	0.9280
75% Q3	0.7000
50% Median	0.5375
25% Q1	0.3735
10%	0.2500
5%	0.2100
1%	0.1410
0% Min	0.0800

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.080	89397	1.71	89357
0.113	89432	1.72	89359
0.141	89435	1.74	89358
0.164	89447	1.90	89402
0.169	89423	5.45	89382

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


50
40
30
20
10
0
Percent
0.25
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
5.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	0.683	**Sum Observations**	180.995
Std Deviation	0.45615426	**Variance**	0.20807671
Skewness	2.35981912	**Kurtosis**	9.503008
Uncorrected SS	178.551837	**Corrected SS**	54.932252
Coeff Variation	66.7868614	**Std Error Mean**	0.02802133

Basic Statistical Measures			
Location		**Variability**	
Mean	0.683000	**Std Deviation**	0.45615
Median	0.551000	**Variance**	0.20808
Mode	0.380000	**Range**	3.76000
		Interquartile Range	0.46800

Note: The mode displayed is the smallest of 2 modes with a count of 4.

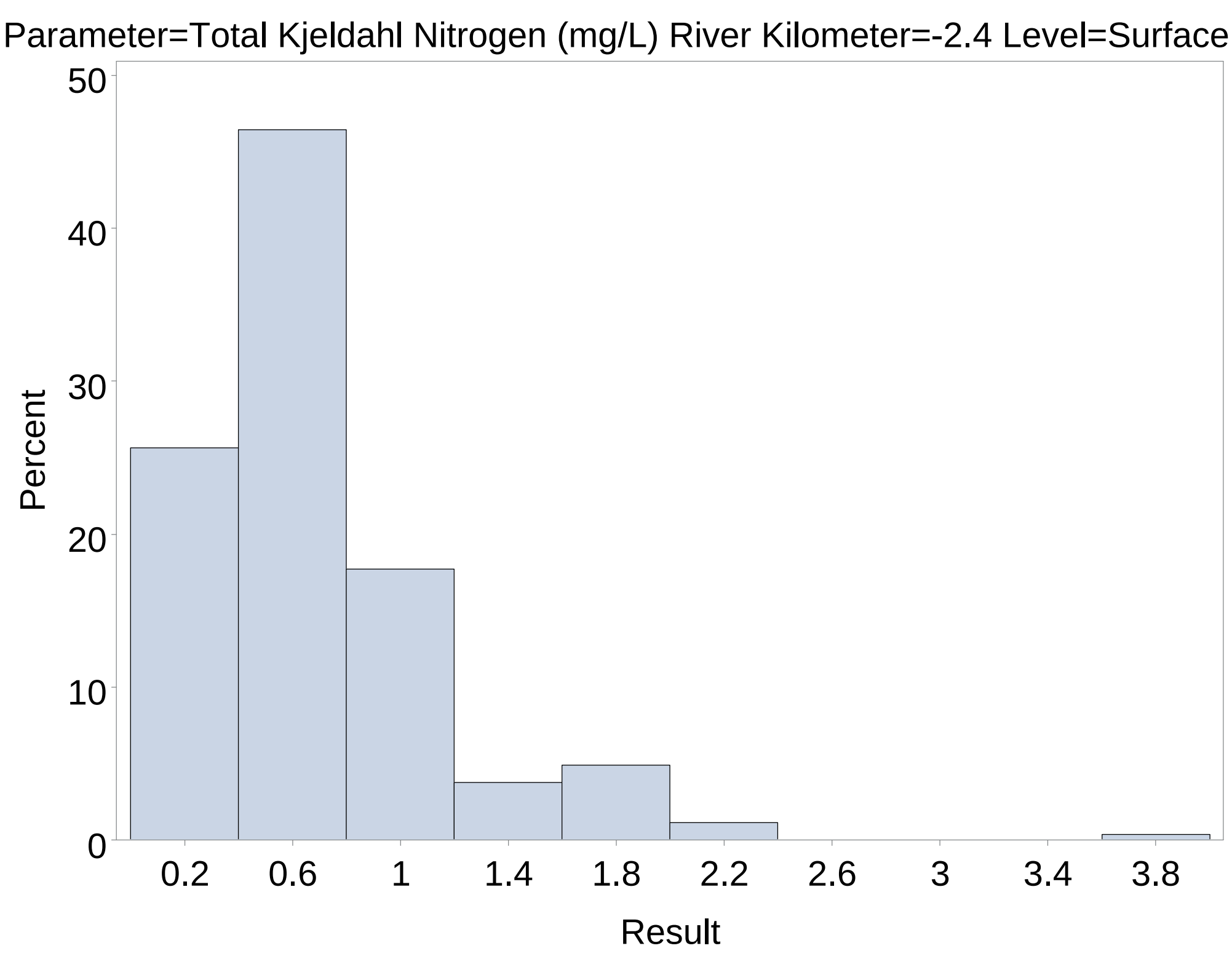
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.37429	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.840
99%	2.170
95%	1.700
90%	1.200
75% Q3	0.860
50% Median	0.551
25% Q1	0.392
10%	0.280
5%	0.210
1%	0.130
0% Min	0.080

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.080	89655	1.95	89766
0.128	89698	2.14	89622
0.130	89650	2.17	89801
0.132	89697	2.33	89775
0.154	89662	3.84	89647


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface
Percent
50
40
30
20
10
0
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	266	**Sum Weights**	266
Mean	0.76033835	**Sum Observations**	202.25
Std Deviation	0.33849048	**Variance**	0.1145758
Skewness	1.46211486	**Kurtosis**	3.77264211
Uncorrected SS	184.141018	**Corrected SS**	30.3625875
Coeff Variation	44.5184012	**Std Error Mean**	0.02075418

Basic Statistical Measures			
Location		**Variability**	
Mean	0.760338	**Std Deviation**	0.33849
Median	0.691000	**Variance**	0.11458
Mode	0.460000	**Range**	2.21800
		Interquartile Range	0.37900

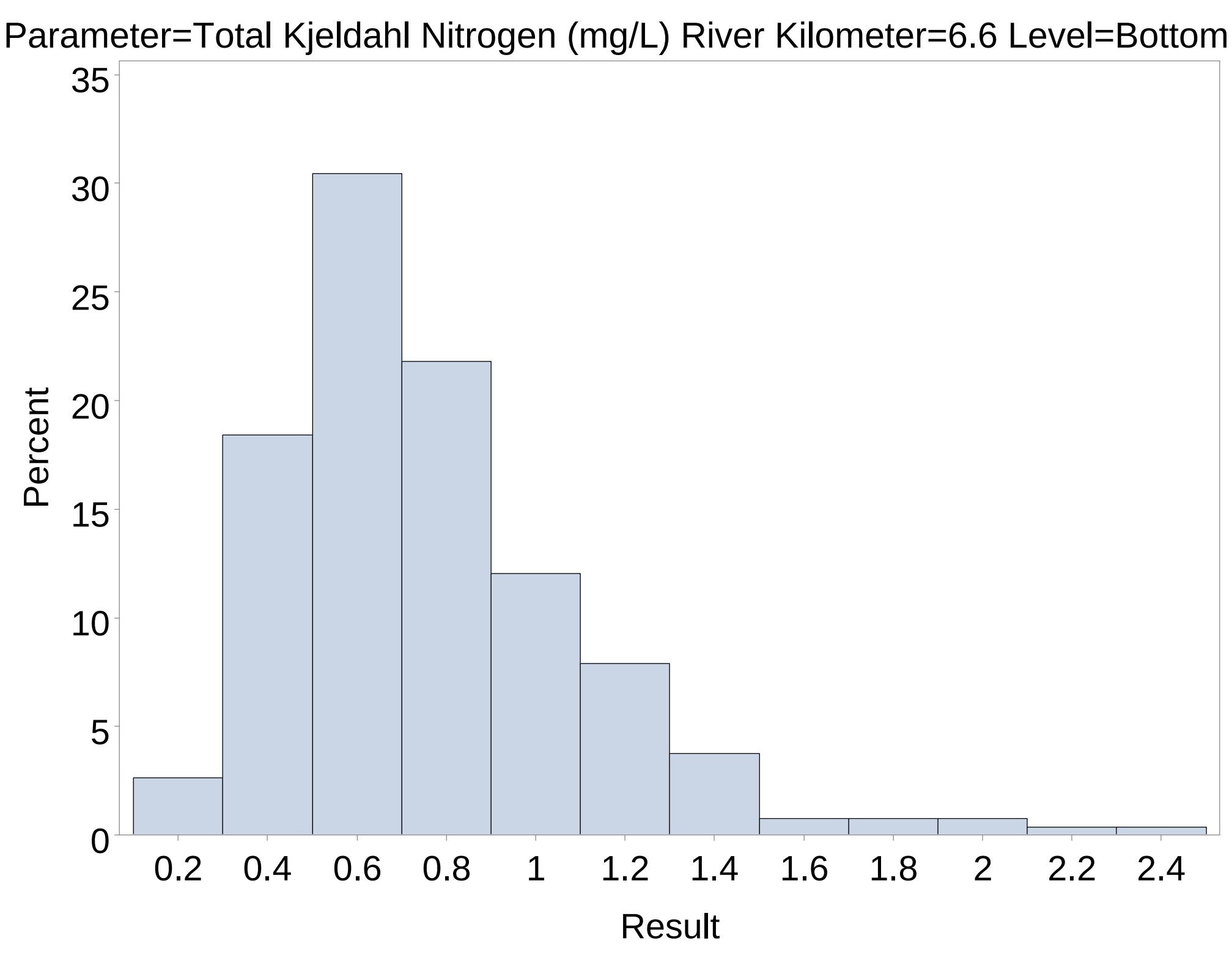
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.63543	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.390
99%	2.070
95%	1.320
90%	1.190
75% Q3	0.912
50% Median	0.691
25% Q1	0.533
10%	0.411
5%	0.320
1%	0.211
0% Min	0.172

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.172	89928	1.81	89889
0.195	89963	2.04	89890
0.211	89964	2.07	89888
0.222	89966	2.18	89933
0.235	89954	2.39	89931


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	0.81415094	**Sum Observations**	215.75
Std Deviation	0.39352427	**Variance**	0.15486135
Skewness	1.22579853	**Kurtosis**	1.8916972
Uncorrected SS	216.536462	**Corrected SS**	40.883396
Coeff Variation	48.3355414	**Std Error Mean**	0.024174

Basic Statistical Measures			
Location		**Variability**	
Mean	0.814151	**Std Deviation**	0.39352
Median	0.719000	**Variance**	0.15486
Mode	1.100000	**Range**	2.19700
		Interquartile Range	0.47000

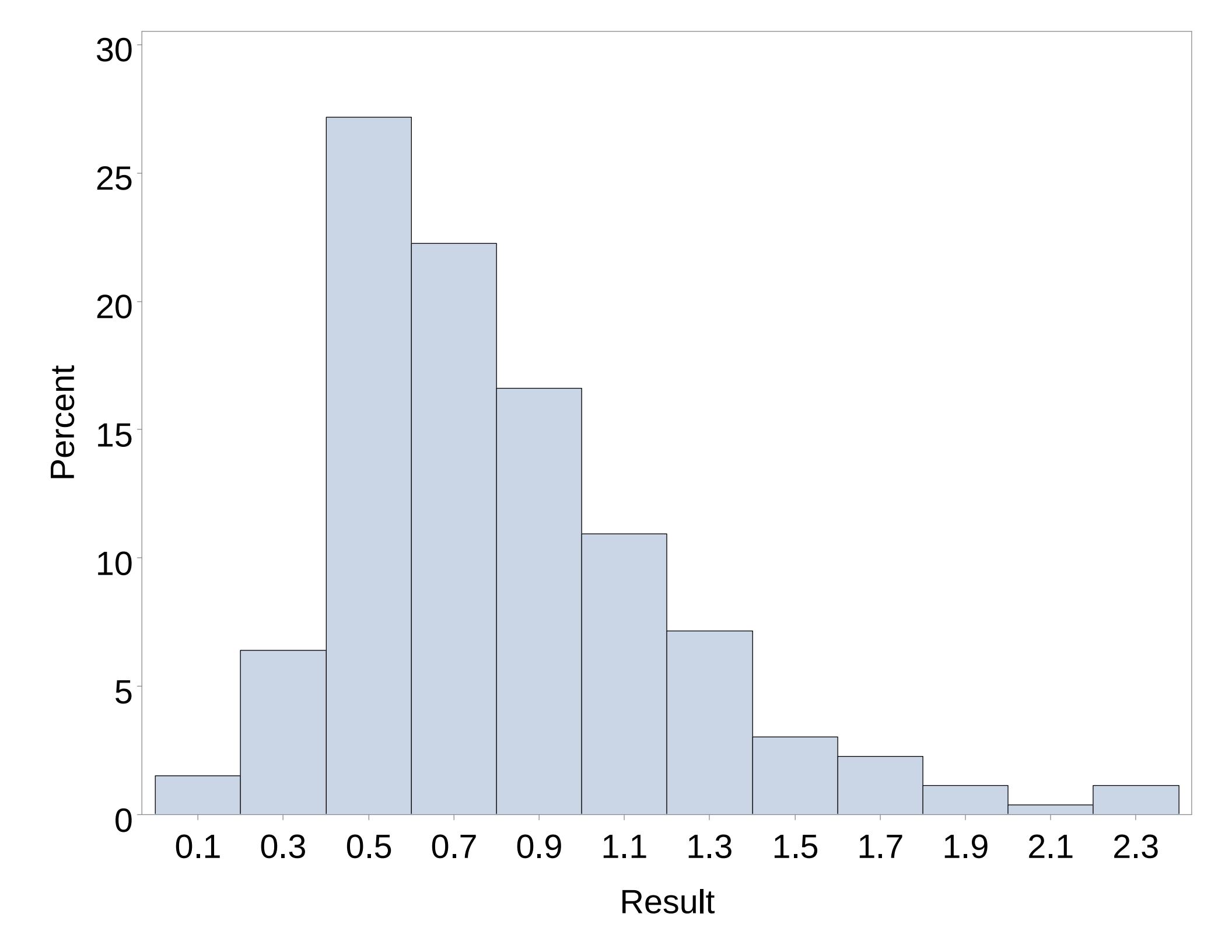
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.67878	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.340
99%	2.260
95%	1.580
90%	1.330
75% Q3	1.020
50% Median	0.719
25% Q1	0.550
10%	0.425
5%	0.314
1%	0.196
0% Min	0.143

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.143	90244	1.96	90154
0.181	90228	2.16	90198
0.196	90229	2.26	90259
0.199	90211	2.27	90153
0.230	90179	2.34	90189


30
25
20
15
10
5
0
Percent
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
2.1
2.3
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	267	**Sum Weights**	267
Mean	1.04278652	**Sum Observations**	278.424
Std Deviation	0.35833425	**Variance**	0.12840343
Skewness	0.79080766	**Kurtosis**	0.95649536
Uncorrected SS	324.492106	**Corrected SS**	34.1553128
Coeff Variation	34.3631453	**Std Error Mean**	0.0219297

Basic Statistical Measures			
Location		**Variability**	
Mean	1.042787	**Std Deviation**	0.35833
Median	0.980000	**Variance**	0.12840
Mode	1.200000	**Range**	2.10400
		Interquartile Range	0.49000

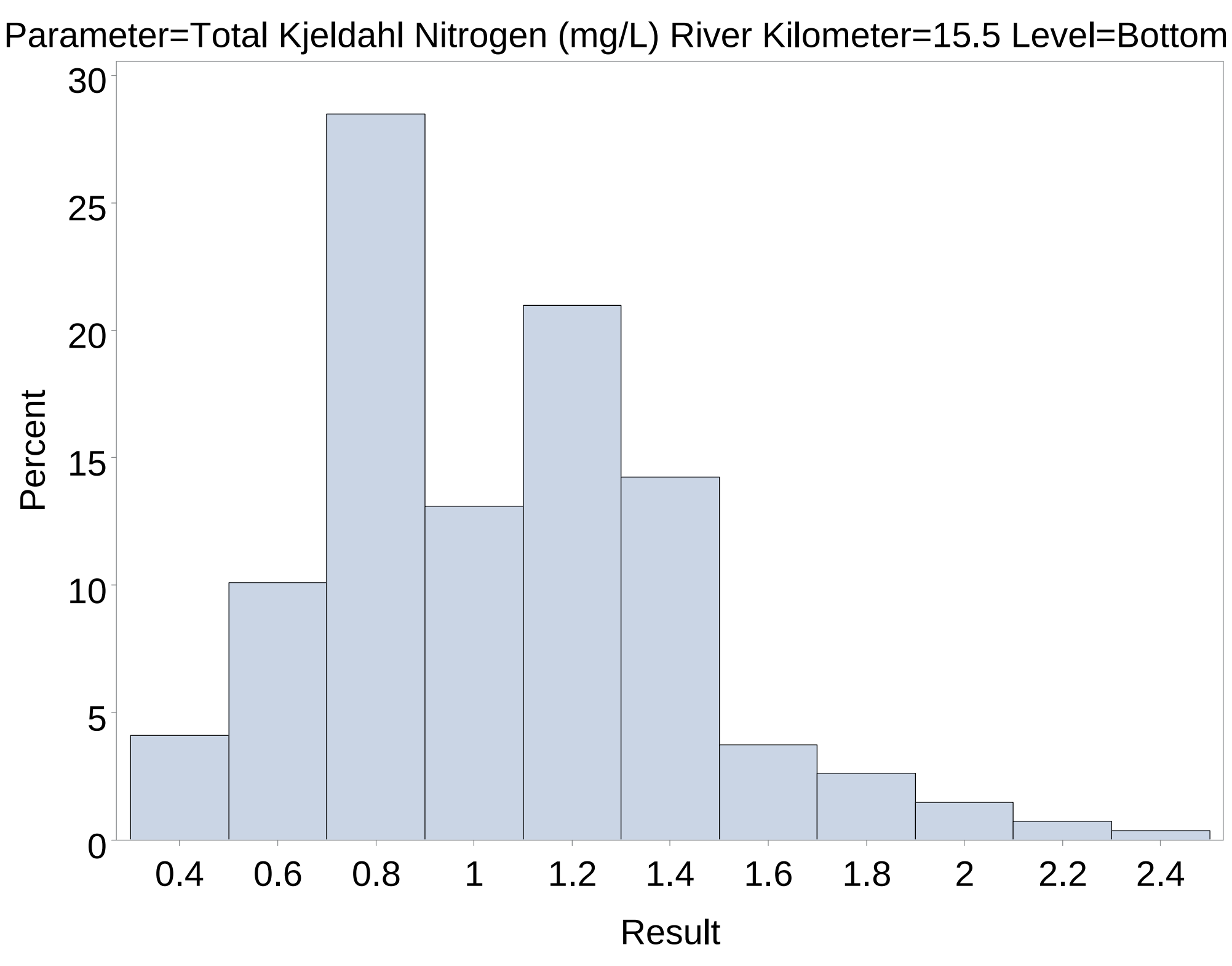
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.55134	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.430
99%	2.120
95%	1.700
90%	1.470
75% Q3	1.260
50% Median	0.980
25% Q1	0.770
10%	0.660
5%	0.590
1%	0.390
0% Min	0.326

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.326	90495	2.03	90580
0.368	90511	2.07	90612
0.390	90451	2.12	90420
0.397	90560	2.29	90455
0.399	90498	2.43	90468


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom
Percent
30
25
20
15
10
5
0
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	1.0753221	**Sum Observations**	287.111
Std Deviation	0.54667634	**Variance**	0.29885502
Skewness	6.254713	**Kurtosis**	67.4541935
Uncorrected SS	388.232237	**Corrected SS**	79.4954343
Coeff Variation	50.8383802	**Std Error Mean**	0.03345605

Basic Statistical Measures			
Location		**Variability**	
Mean	1.075322	**Std Deviation**	0.54668
Median	1.000000	**Variance**	0.29886
Mode	1.200000	**Range**	7.10100
		Interquartile Range	0.47000

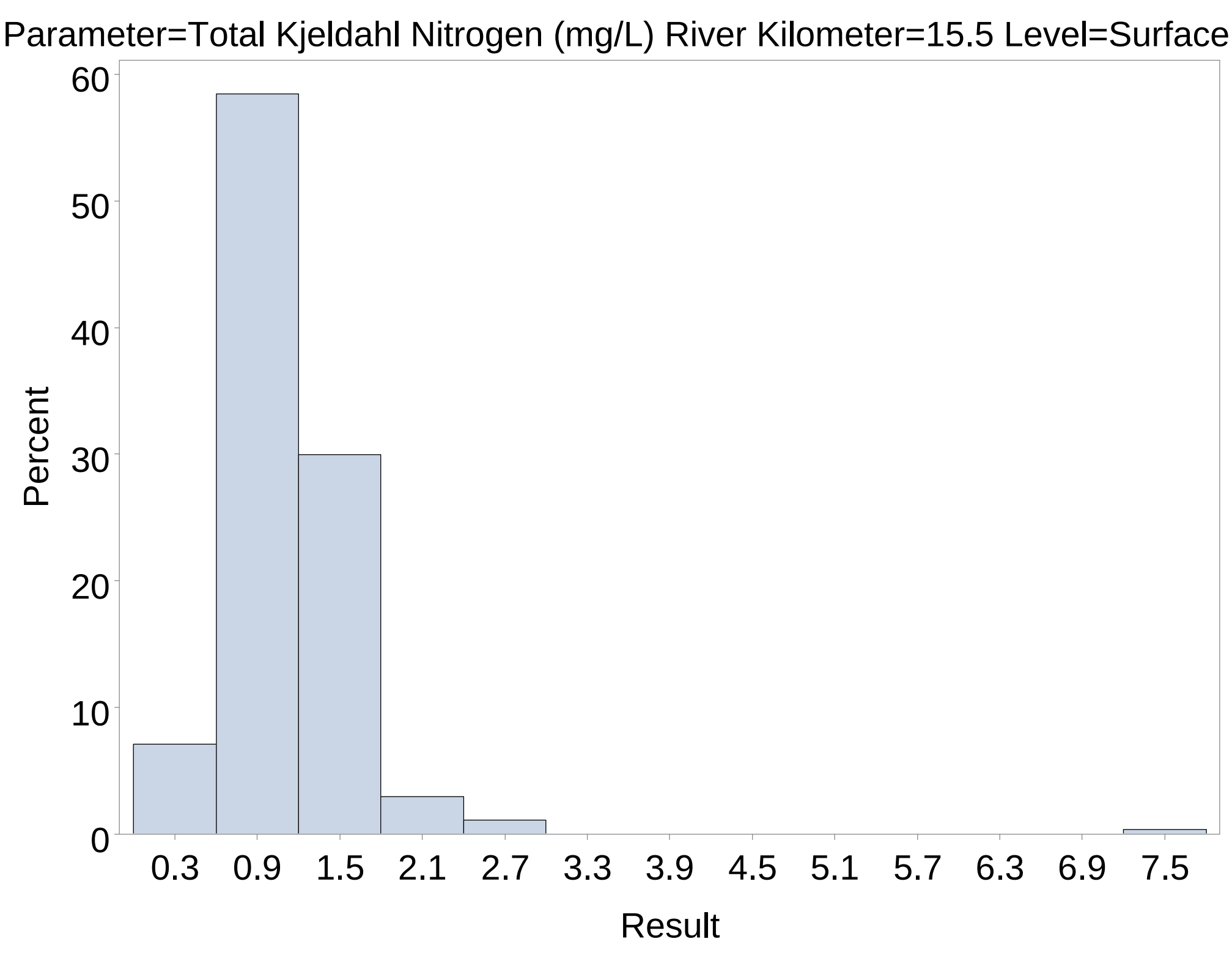
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.14134	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.400
99%	2.810
95%	1.670
90%	1.500
75% Q3	1.250
50% Median	1.000
25% Q1	0.780
10%	0.660
5%	0.563
1%	0.338
0% Min	0.299

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.299	90778	2.14	90735
0.332	90762	2.59	90722
0.338	90728	2.81	90731
0.390	90765	2.93	90769
0.404	90777	7.40	90656


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=15.5 Level=Surface
Percent
60
50
40
30
20
10
0
0.3
0.9
1.5
2.1
2.7
3.3
3.9
4.5
5.1
5.7
6.3
6.9
7.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	1.06720755	**Sum Observations**	282.81
Std Deviation	0.36129608	**Variance**	0.13053485
Skewness	1.23315044	**Kurtosis**	3.42298765
Uncorrected SS	336.278168	**Corrected SS**	34.4612016
Coeff Variation	33.8543404	**Std Error Mean**	0.02219424

Basic Statistical Measures			
Location		**Variability**	
Mean	1.067208	**Std Deviation**	0.36130
Median	1.010000	**Variance**	0.13053
Mode	1.040000	**Range**	2.67000
		Interquartile Range	0.45000

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

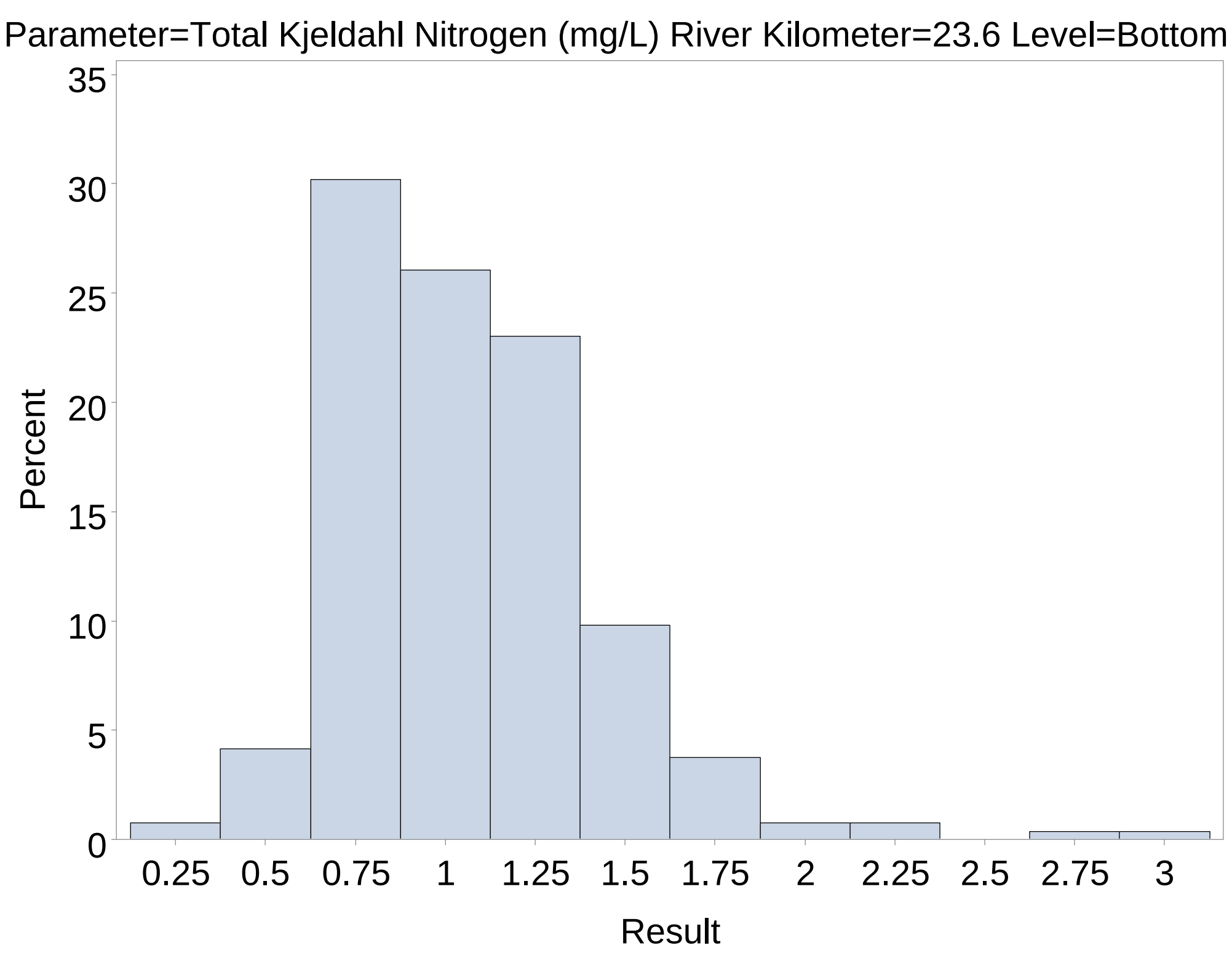
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.08488	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.900
99%	2.300
95%	1.660
90%	1.510
75% Q3	1.270
50% Median	1.010
25% Q1	0.820
10%	0.683
5%	0.630
1%	0.423
0% Min	0.230

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.230	91092	2.00	90895
0.362	91030	2.22	90988
0.423	91027	2.30	90952
0.447	91028	2.63	90997
0.462	91043	2.90	91150


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0.25
0.5
0.75
1
1.25
1.5
1.75
2
2.25
2.5
2.75
3
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	267	**Sum Weights**	267
Mean	1.05367041	**Sum Observations**	281.33
Std Deviation	0.32412466	**Variance**	0.10505679
Skewness	0.5508979	**Kurtosis**	0.49880244
Uncorrected SS	324.374204	**Corrected SS**	27.945107
Coeff Variation	30.7614842	**Std Error Mean**	0.01983611

Basic Statistical Measures			
Location		**Variability**	
Mean	1.053670	**Std Deviation**	0.32412
Median	1.010000	**Variance**	0.10506
Mode	1.200000	**Range**	1.84100
		Interquartile Range	0.46000

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

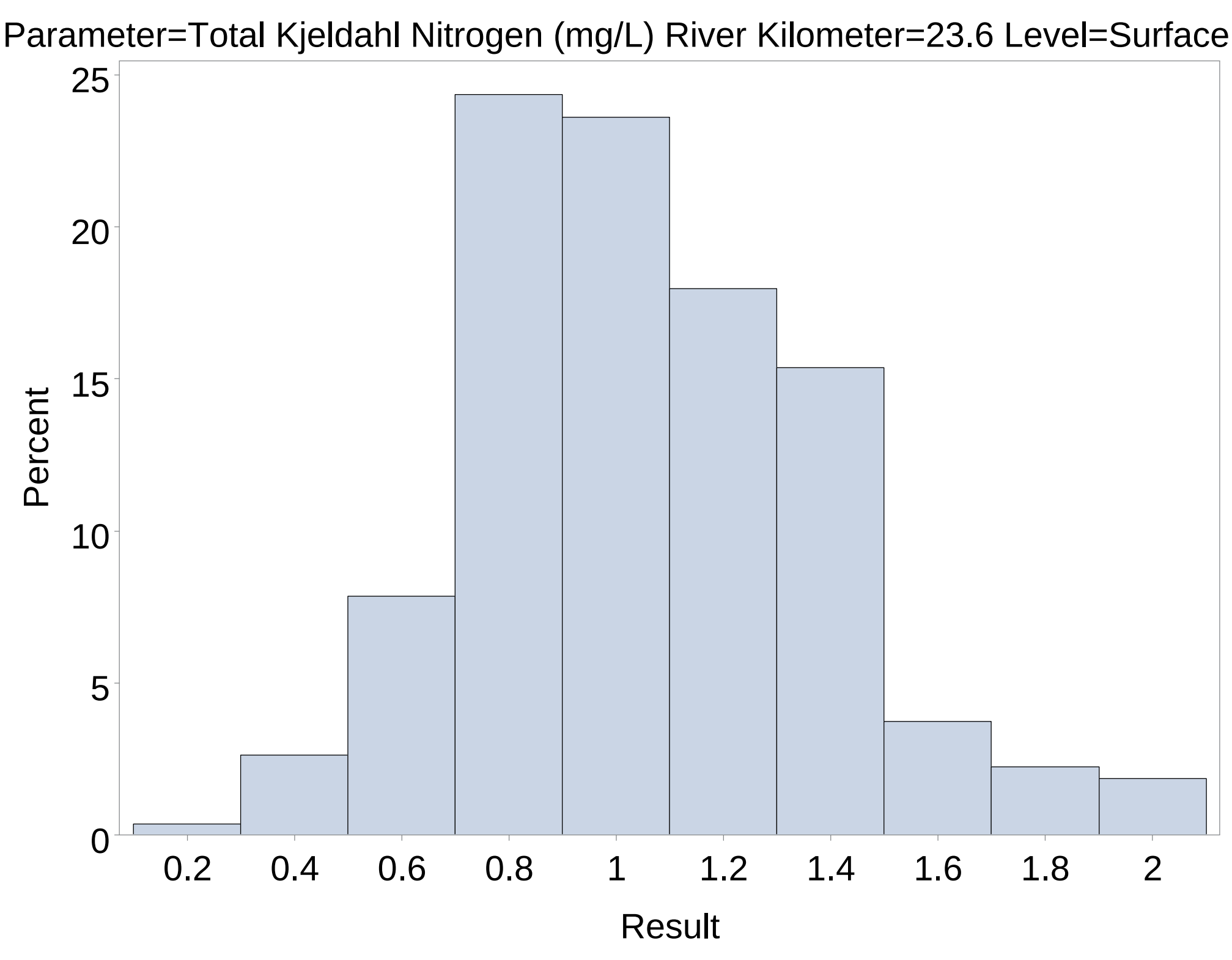
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	53.11881	**Pr > |t|**	<.0001
Sign	**M**	133.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.050
99%	2.000
95%	1.640
90%	1.440
75% Q3	1.280
50% Median	1.010
25% Q1	0.820
10%	0.680
5%	0.610
1%	0.388
0% Min	0.209

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.209	91220	1.99	91411
0.330	91297	2.00	91160
0.388	91359	2.00	91408
0.450	91189	2.05	91218
0.456	91294	2.05	91254


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=23.6 Level=Surface
Percent
25
20
15
10
5
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	264	**Sum Weights**	264
Mean	1.06264394	**Sum Observations**	280.538
Std Deviation	0.39026533	**Variance**	0.15230703
Skewness	1.79545471	**Kurtosis**	8.03791872
Uncorrected SS	338.168754	**Corrected SS**	40.0567485
Coeff Variation	36.7258793	**Std Error Mean**	0.02401917

Basic Statistical Measures			
Location		**Variability**	
Mean	1.062644	**Std Deviation**	0.39027
Median	1.000000	**Variance**	0.15231
Mode	1.100000	**Range**	3.32100
		Interquartile Range	0.52000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.24149	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

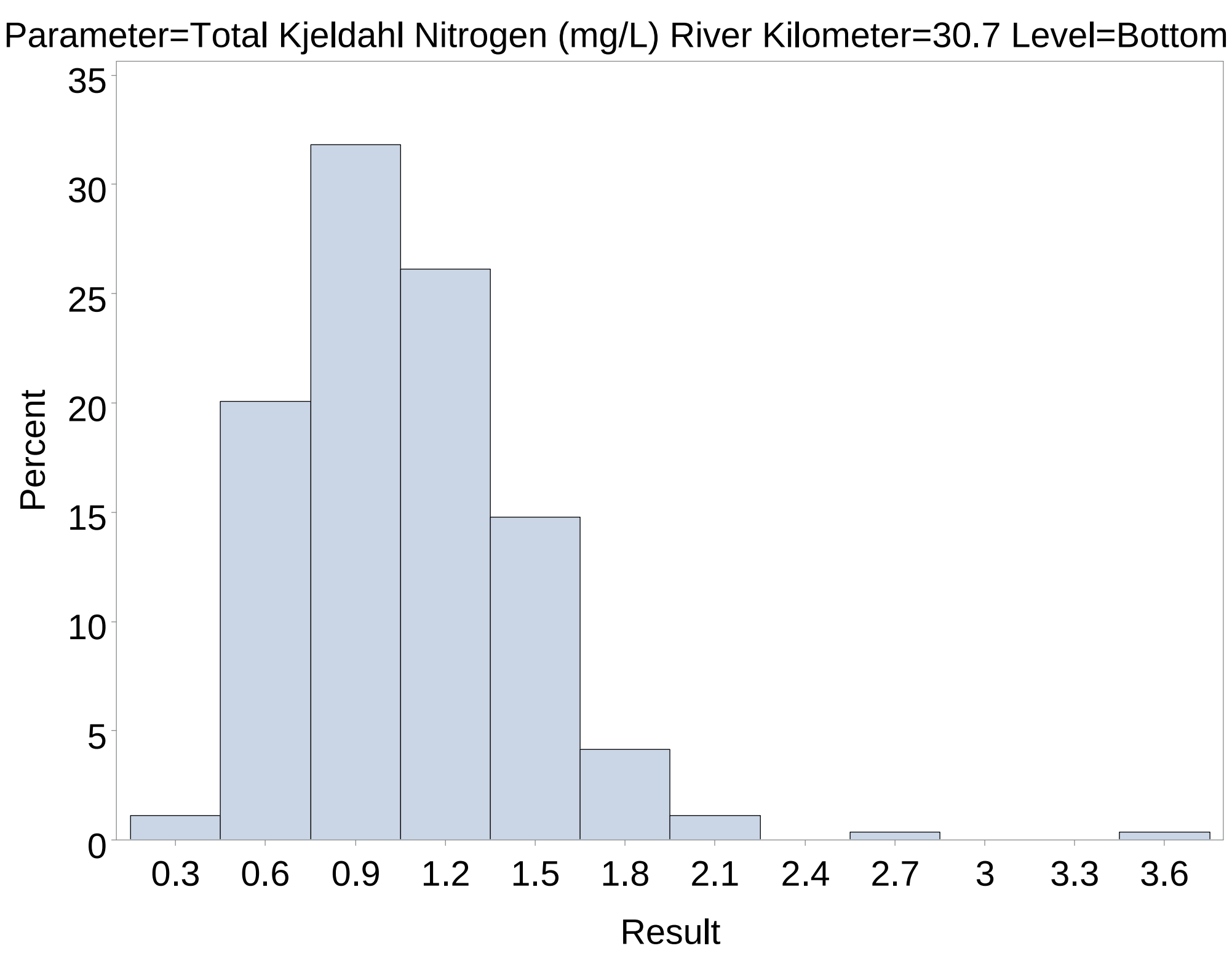
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.670
99%	2.200
95%	1.680
90%	1.490
75% Q3	1.295
50% Median	1.000
25% Q1	0.775
10%	0.650
5%	0.600
1%	0.418
0% Min	0.349

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.349	91563	2.02	91484
0.381	91560	2.20	91427
0.418	91559	2.20	91520
0.480	91471	2.78	91529
0.480	91458	3.67	91682

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.38	100.00


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
3.3
3.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	266	**Sum Weights**	266
Mean	1.06327444	**Sum Observations**	282.831
Std Deviation	0.41249406	**Variance**	0.17015135
Skewness	2.9433619	**Kurtosis**	20.7108971
Uncorrected SS	345.817079	**Corrected SS**	45.090107
Coeff Variation	38.7946934	**Std Error Mean**	0.02529163

Basic Statistical Measures			
Location		**Variability**	
Mean	1.063274	**Std Deviation**	0.41249
Median	1.000000	**Variance**	0.17015
Mode	1.100000	**Range**	4.27100
		Interquartile Range	0.47900

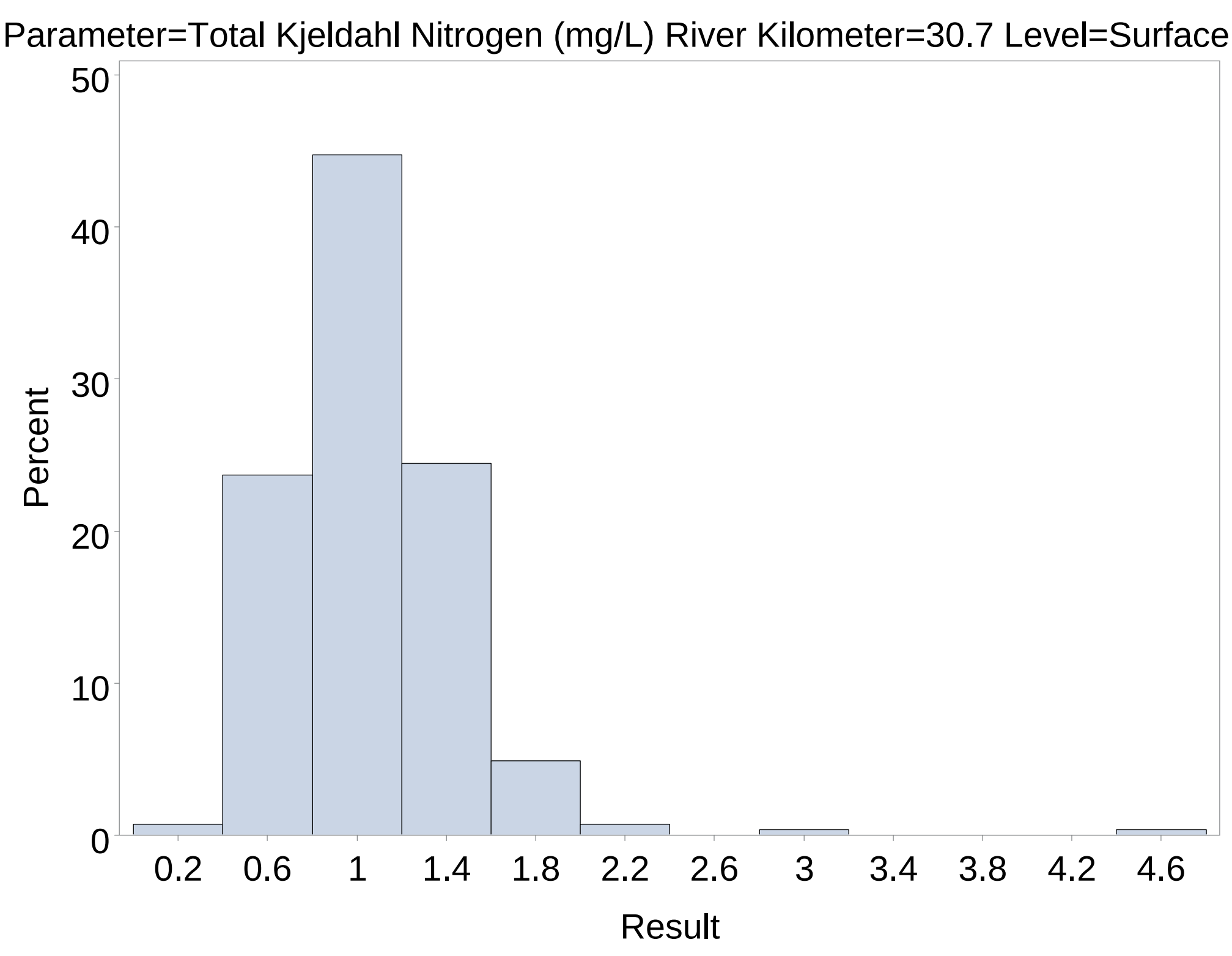
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.04056	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.610
99%	2.290
95%	1.640
90%	1.500
75% Q3	1.280
50% Median	1.000
25% Q1	0.801
10%	0.640
5%	0.591
1%	0.428
0% Min	0.339

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.339	91829	1.88	91834
0.348	91826	2.10	91692
0.428	91827	2.29	91786
0.445	91814	2.82	91795
0.510	91723	4.61	91948


Parameter=Total Kjeldahl Nitrogen (mg/L) River Kilometer=30.7 Level=Surface
Percent
50
40
30
20
10
0
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
4.2
4.6
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	263	**Sum Weights**	263
Mean	0.61255643	**Sum Observations**	161.10234
Std Deviation	0.42221937	**Variance**	0.1782692
Skewness	6.4072881	**Kurtosis**	68.9727997
Uncorrected SS	145.390803	**Corrected SS**	46.7065292
Coeff Variation	68.9274246	**Std Error Mean**	0.02603516

Basic Statistical Measures			
Location		**Variability**	
Mean	0.612556	**Std Deviation**	0.42222
Median	0.550000	**Variance**	0.17827
Mode	0.560000	**Range**	5.41600
		Interquartile Range	0.32700

Note: The mode displayed is the smallest of 2 modes with a count of 4.

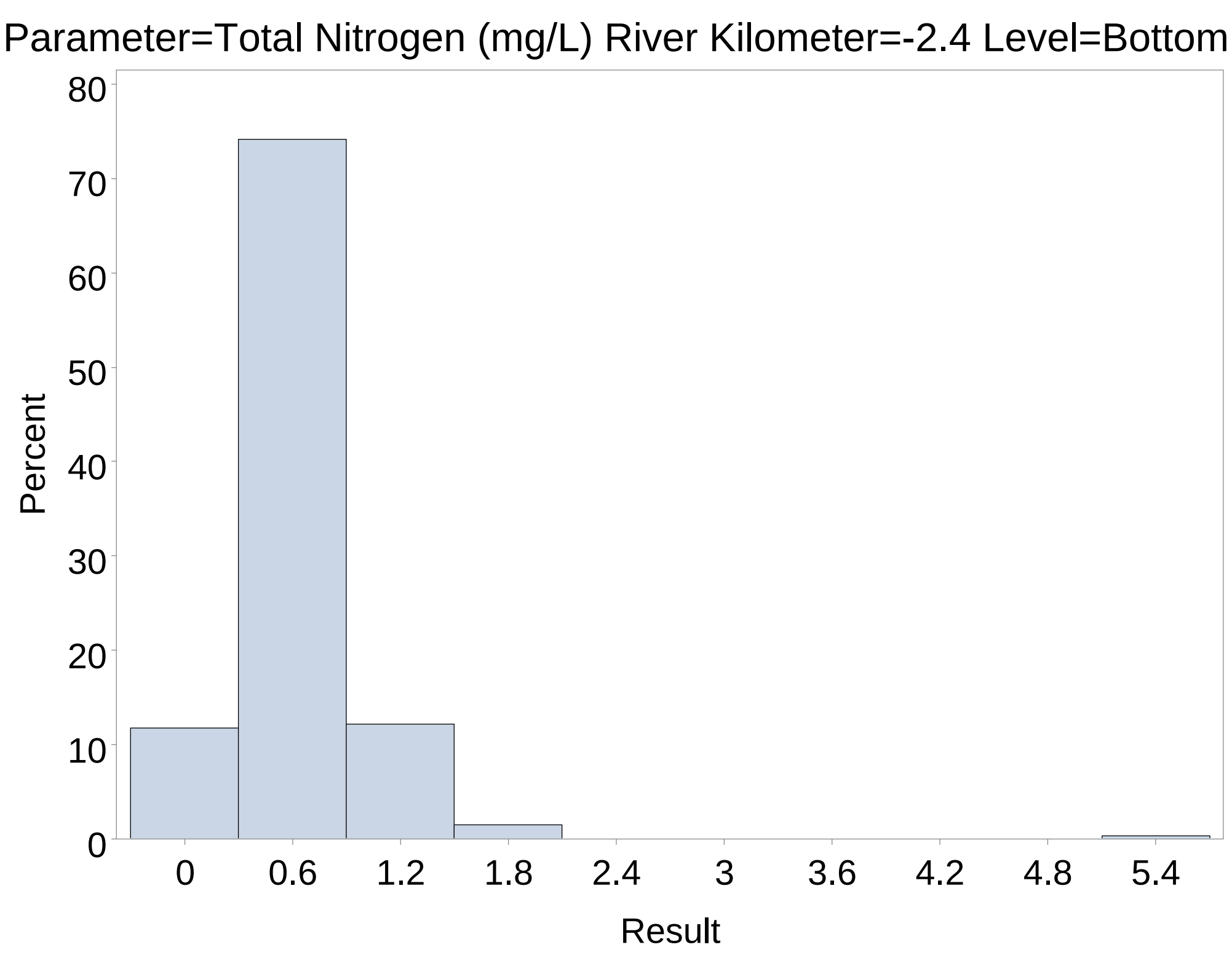
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.52804	**Pr > |t|**	<.0001
Sign	**M**	131.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17358	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.508
99%	1.773
95%	1.120
90%	0.980
75% Q3	0.720
50% Median	0.550
25% Q1	0.393
10%	0.270
5%	0.218
1%	0.145
0% Min	0.092

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.092	92054	1.729	92015
0.117	92088	1.767	92016
0.145	92091	1.773	92017
0.173	92080	1.923	92059
0.174	92103	5.508	92039


Parameter=Total Nitrogen (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
80
70
60
50
40
30
20
10
0
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	264	**Sum Weights**	264
Mean	0.71214053	**Sum Observations**	188.0051
Std Deviation	0.47303017	**Variance**	0.22375754
Skewness	2.25121399	**Kurtosis**	8.62968344
Uncorrected SS	192.734285	**Corrected SS**	58.8482338
Coeff Variation	66.4237115	**Std Error Mean**	0.02911299

Basic Statistical Measures			
Location		**Variability**	
Mean	0.712141	**Std Deviation**	0.47303
Median	0.580000	**Variance**	0.22376
Mode	0.400000	**Range**	3.82500
		Interquartile Range	0.48650

Note: The mode displayed is the smallest of 2 modes with a count of 4.

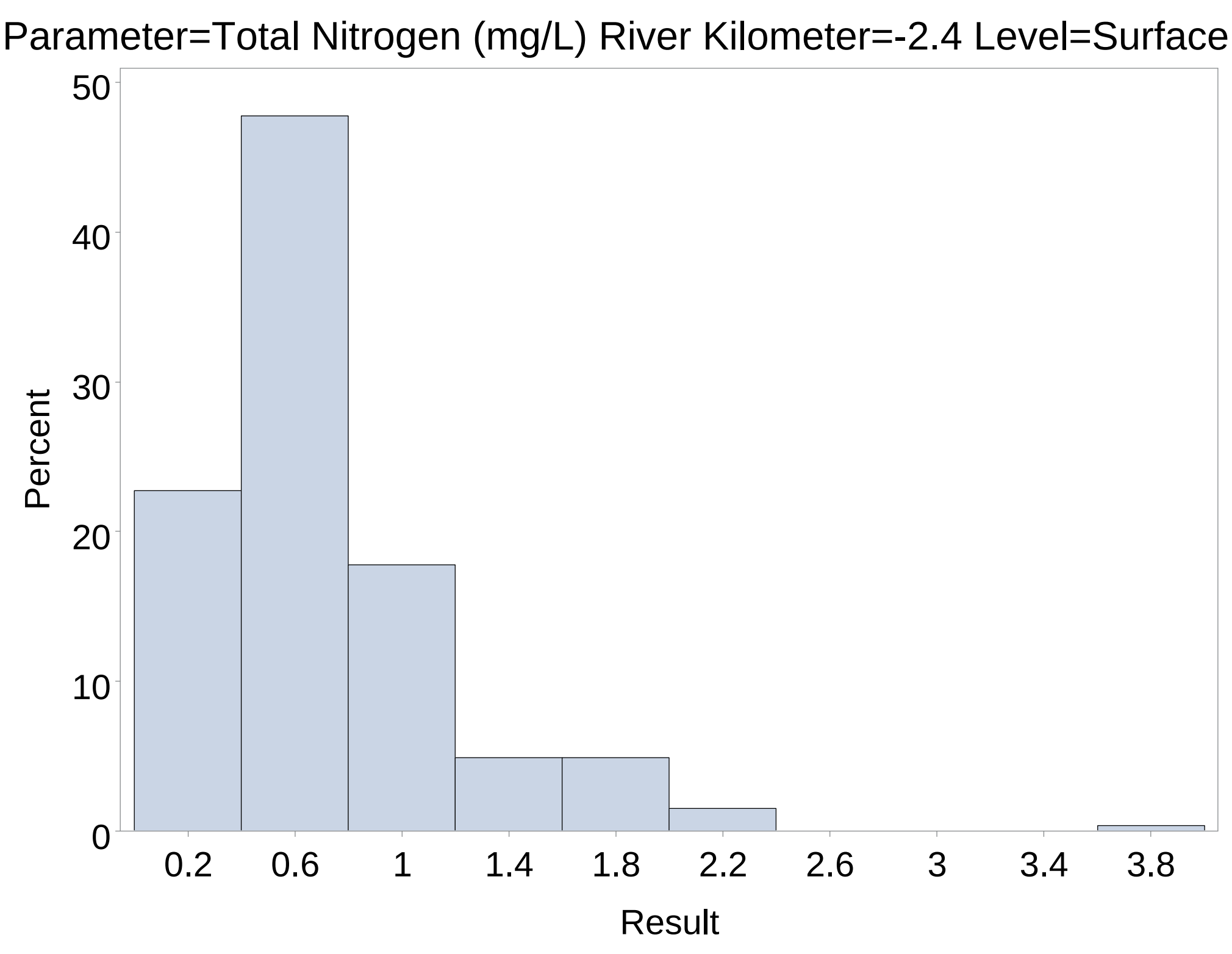
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.46126	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.9150
99%	2.3330
95%	1.7400
90%	1.2420
75% Q3	0.8965
50% Median	0.5800
25% Q1	0.4100
10%	0.2900
5%	0.2240
1%	0.1360
0% Min	0.0900

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.090	92310	2.023	92421
0.132	92353	2.170	92456
0.136	92352	2.333	92278
0.153	92305	2.334	92430
0.167	92317	3.915	92302


Parameter=Total Nitrogen (mg/L) River Kilometer=-2.4 Level=Surface
Percent
50
40
30
20
10
0
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	0.80320189	**Sum Observations**	212.8485
Std Deviation	0.3621023	**Variance**	0.13111808
Skewness	1.44318419	**Kurtosis**	3.78129256
Uncorrected SS	205.575489	**Corrected SS**	34.6151722
Coeff Variation	45.0823519	**Std Error Mean**	0.02224377

Basic Statistical Measures			
Location		**Variability**	
Mean	0.803202	**Std Deviation**	0.36210
Median	0.732000	**Variance**	0.13112
Mode	1.220000	**Range**	2.49800
		Interquartile Range	0.40600

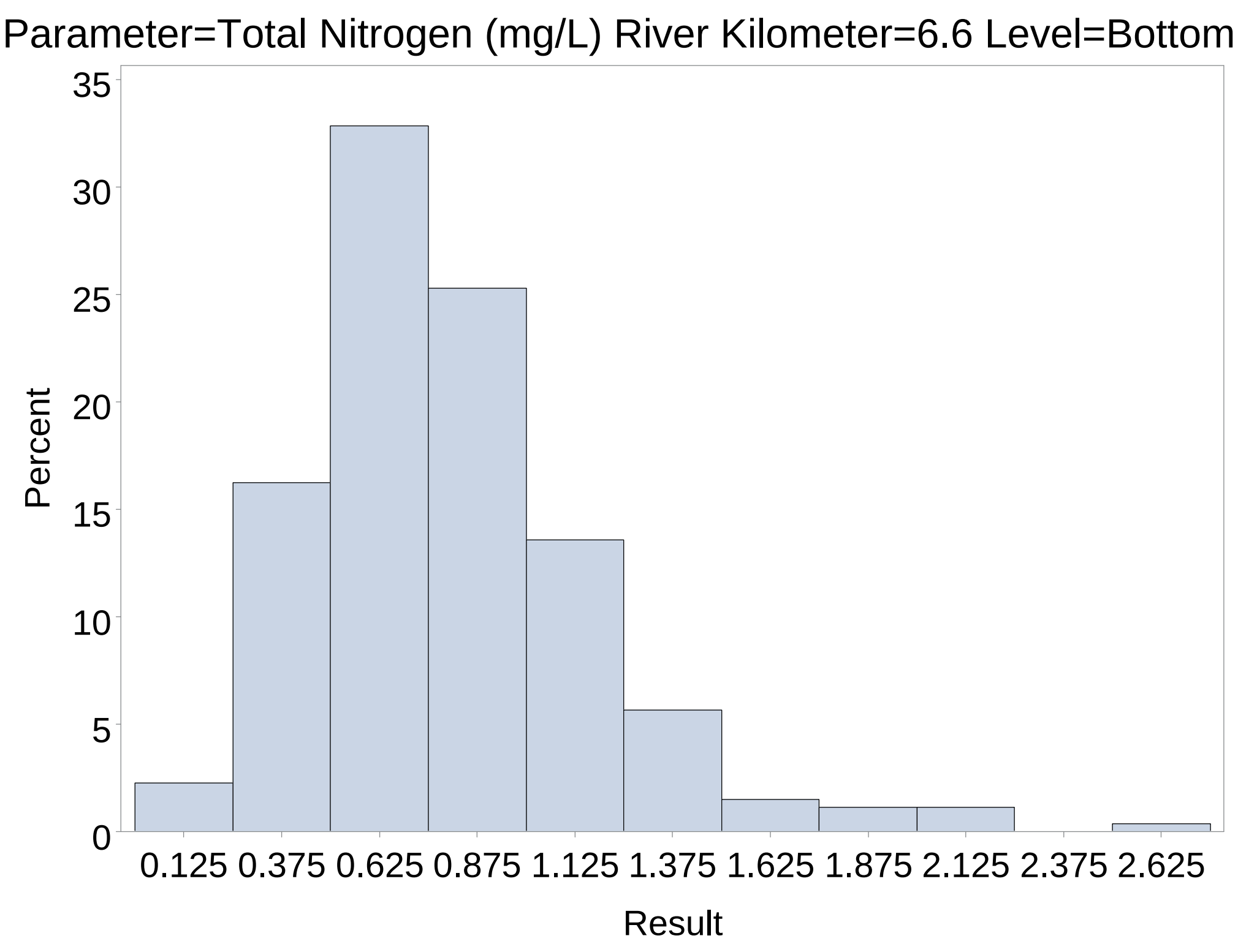
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.10908	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.679
99%	2.119
95%	1.408
90%	1.247
75% Q3	0.967
50% Median	0.732
25% Q1	0.561
10%	0.428
5%	0.343
1%	0.215
0% Min	0.181

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.181	92582	1.830	92501
0.201	92617	2.081	92545
0.215	92618	2.119	92543
0.226	92620	2.187	92587
0.239	92608	2.679	92585


Parameter=Total Nitrogen (mg/L) River Kilometer=6.6 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0.125 0.375 0.625 0.875 1.125 1.375 1.625 1.875 2.125 2.375 2.625
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	264	**Sum Weights**	264
Mean	0.88624545	**Sum Observations**	233.9688
Std Deviation	0.44196919	**Variance**	0.19533676
Skewness	1.04308485	**Kurtosis**	1.02368343
Uncorrected SS	258.727354	**Corrected SS**	51.3735689
Coeff Variation	49.8698399	**Std Error Mean**	0.02720132

Basic Statistical Measures			
Location		**Variability**	
Mean	0.886245	**Std Deviation**	0.44197
Median	0.784500	**Variance**	0.19534
Mode	0.861000	**Range**	2.46800
		Interquartile Range	0.57250

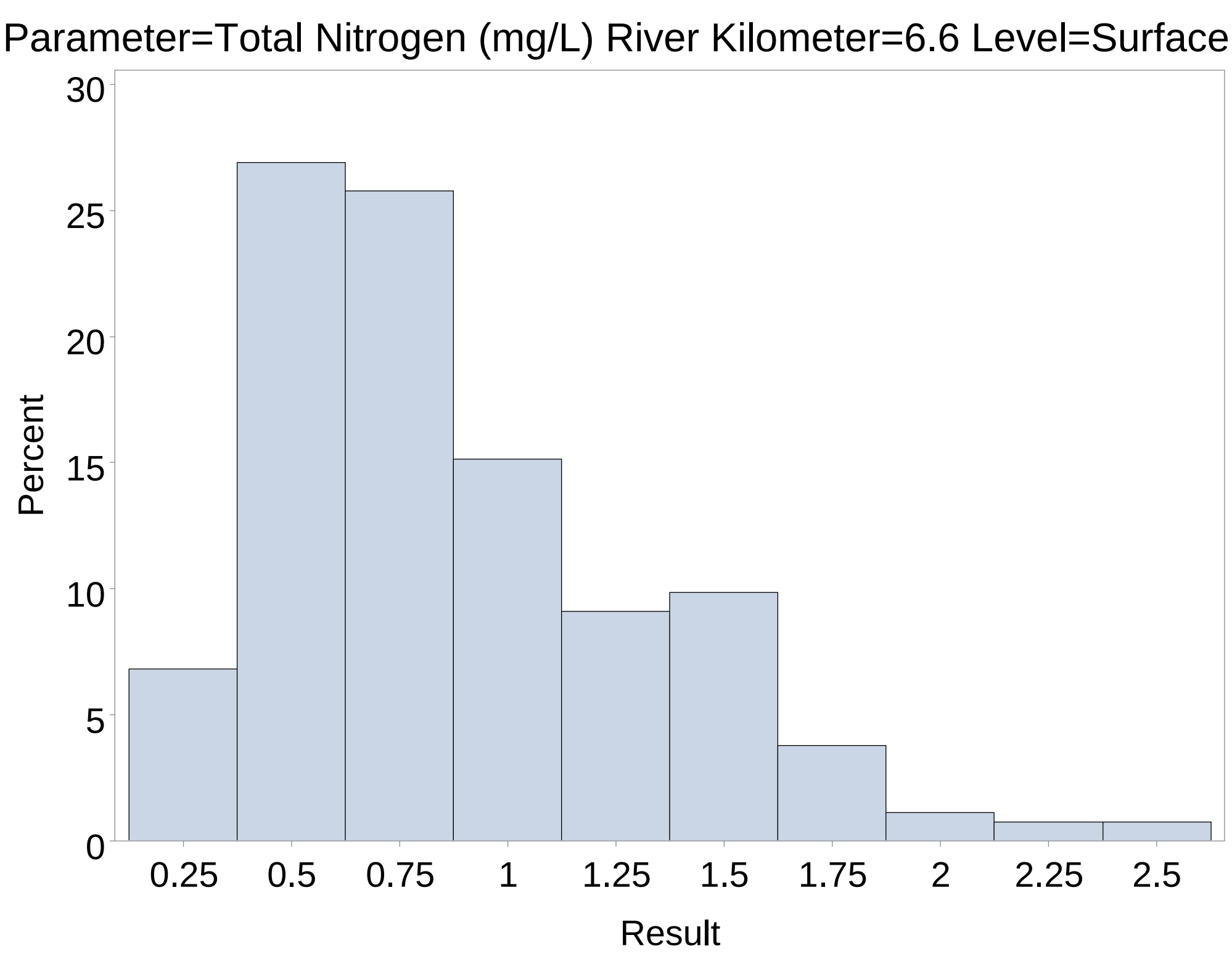
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.58097	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.6230
99%	2.3540
95%	1.7140
90%	1.5100
75% Q3	1.1400
50% Median	0.7845
25% Q1	0.5675
10%	0.4400
5%	0.3480
1%	0.2000
0% Min	0.1550

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.155	92897	2.040	92765
0.187	92881	2.164	92851
0.200	92882	2.354	92842
0.203	92864	2.381	92912
0.245	92896	2.623	92807


Parameter=Total Nitrogen (mg/L) River Kilometer=6.6 Level=Surface
Percent
30
25
20
15
10
5
0
0.25
0.5
0.75
1
1.25
1.5
1.75
2
2.25
2.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	265	**Sum Weights**	265
Mean	1.21576943	**Sum Observations**	322.1789
Std Deviation	0.43379298	**Variance**	0.18817635
Skewness	0.56131408	**Kurtosis**	0.41538404
Uncorrected SS	441.373814	**Corrected SS**	49.6785552
Coeff Variation	35.6805298	**Std Error Mean**	0.02664769

Basic Statistical Measures			
Location		**Variability**	
Mean	1.215769	**Std Deviation**	0.43379
Median	1.211000	**Variance**	0.18818
Mode	0.810000	**Range**	2.27100
		Interquartile Range	0.63300

Note: The mode displayed is the smallest of 8 modes with a count of 3.

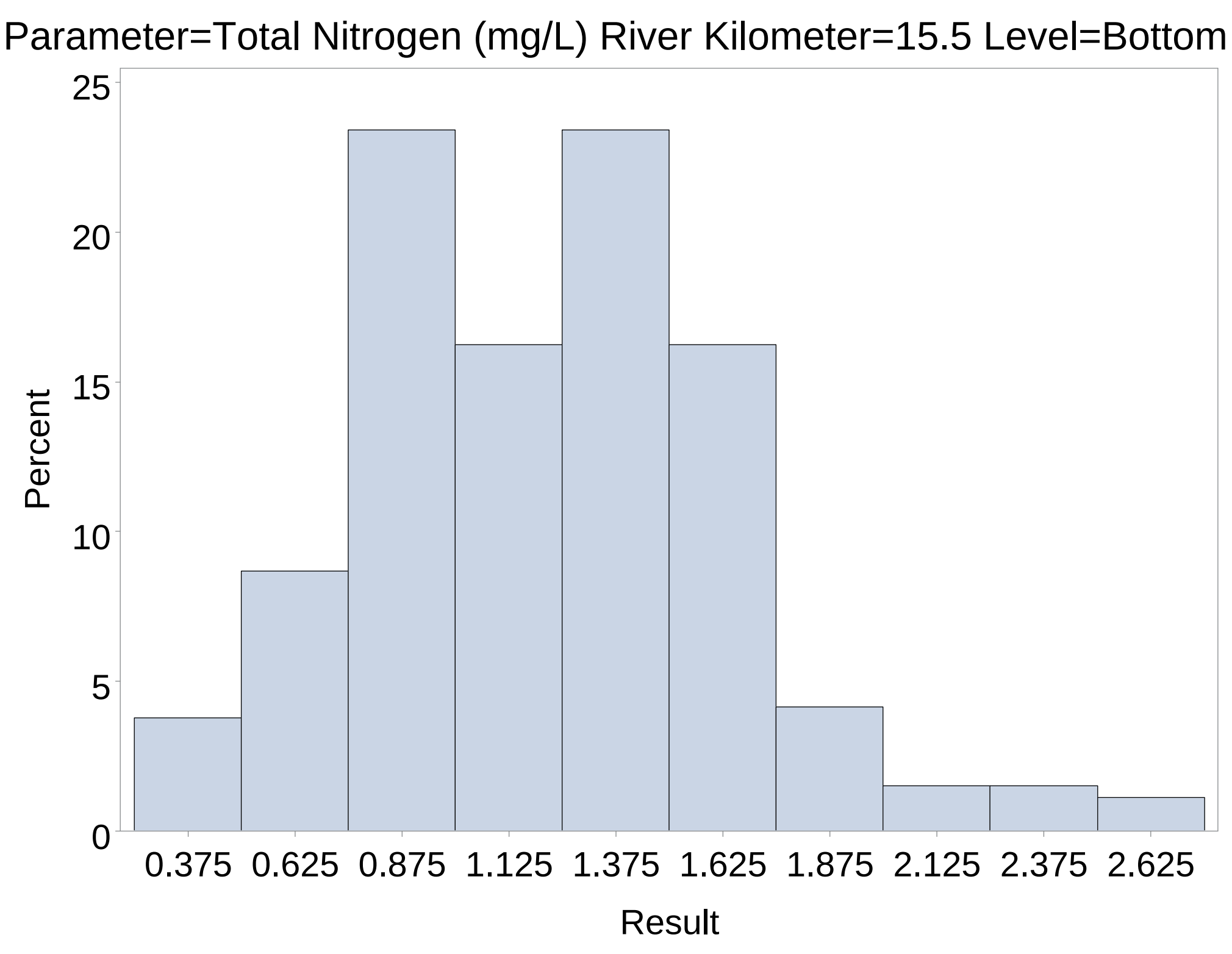
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.62382	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.631
99%	2.510
95%	1.960
90%	1.708
75% Q3	1.493
50% Median	1.211
25% Q1	0.860
10%	0.717
5%	0.640
1%	0.405
0% Min	0.360

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.360	93147	2.403	93232
0.401	93212	2.474	93073
0.405	93163	2.510	93048
0.411	93103	2.600	93263
0.418	93150	2.631	93120


Parameter=Total Nitrogen (mg/L) River Kilometer=15.5 Level=Bottom
Percent
25
20
15
10
5
0
0.375
0.625
0.875
1.125
1.375
1.625
1.875
2.125
2.375
2.625
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	266	**Sum Weights**	266
Mean	1.26125226	**Sum Observations**	335.4931
Std Deviation	0.58226153	**Variance**	0.33902849
Skewness	4.75263292	**Kurtosis**	46.6593649
Uncorrected SS	512.983979	**Corrected SS**	89.8425503
Coeff Variation	46.1653511	**Std Error Mean**	0.03570075

Basic Statistical Measures			
Location		**Variability**	
Mean	1.261252	**Std Deviation**	0.58226
Median	1.235000	**Variance**	0.33903
Mode	1.020000	**Range**	7.05400
		Interquartile Range	0.59400

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

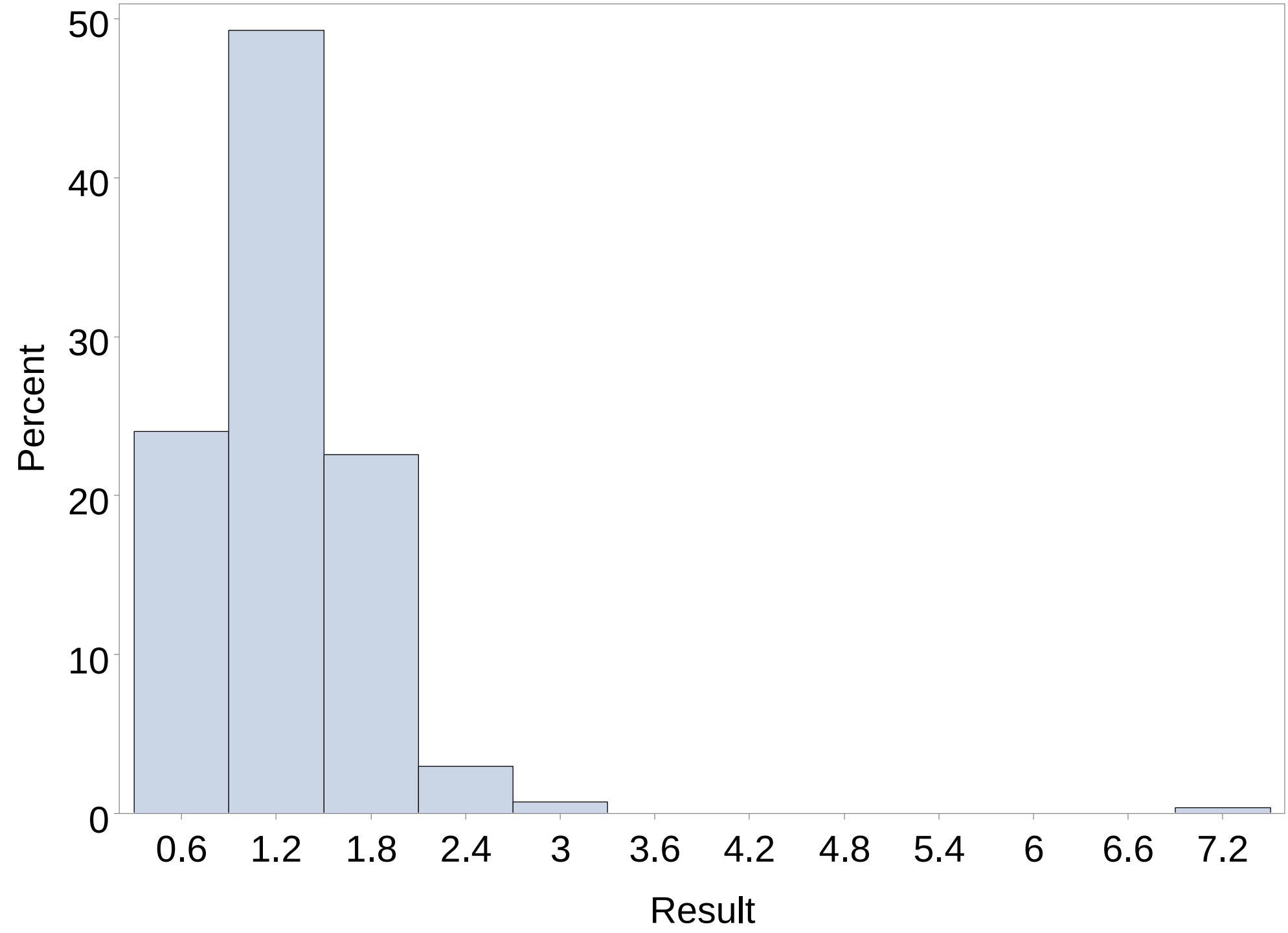
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.32846	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.420
99%	2.845
95%	1.959
90%	1.746
75% Q3	1.507
50% Median	1.235
25% Q1	0.913
10%	0.722
5%	0.600
1%	0.411
0% Min	0.366

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.366	93412	2.581	93337
0.380	93428	2.602	93372
0.411	93415	2.845	93381
0.430	93477	3.024	93419
0.439	93427	7.420	93307


Parameter=Total Nitrogen (mg/L) River Kilometer=15.5 Level=Surface
Percent
50
40
30
20
10
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
6.6
7.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	264	**Sum Weights**	264
Mean	1.38792424	**Sum Observations**	366.412
Std Deviation	0.43497072	**Variance**	0.18919953
Skewness	0.35294703	**Kurtosis**	0.89446056
Uncorrected SS	558.311574	**Corrected SS**	49.7594765
Coeff Variation	31.3396589	**Std Error Mean**	0.0267706

Basic Statistical Measures			
Location		**Variability**	
Mean	1.387924	**Std Deviation**	0.43497
Median	1.419000	**Variance**	0.18920
Mode	1.440000	**Range**	2.68200
		Interquartile Range	0.57700

Note: The mode displayed is the smallest of 2 modes with a count of 4.

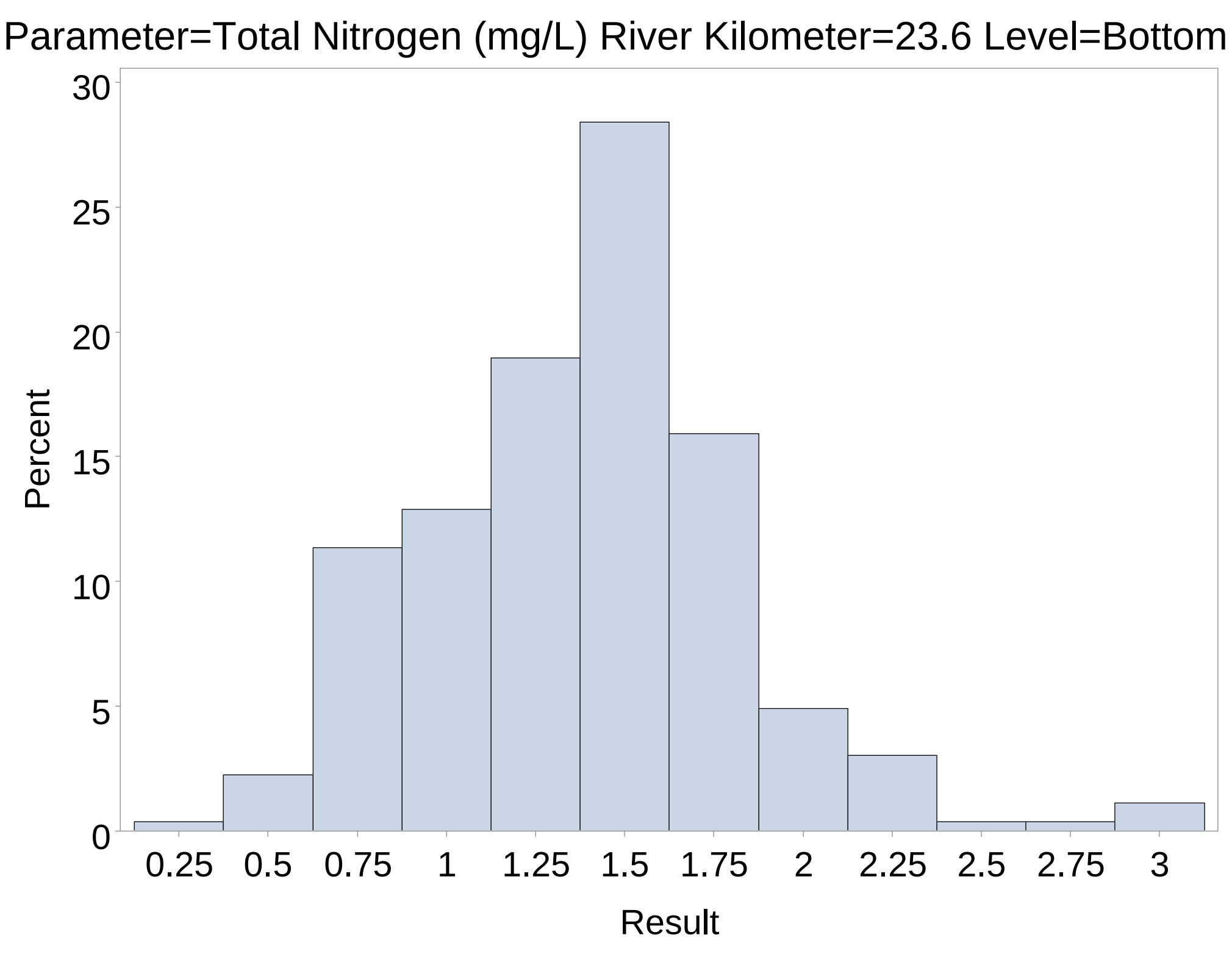
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.8451	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.920
99%	2.879
95%	2.104
90%	1.870
75% Q3	1.652
50% Median	1.419
25% Q1	1.075
10%	0.833
5%	0.726
1%	0.481
0% Min	0.238

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.238	93741	2.375	93592
0.390	93679	2.634	93646
0.481	93692	2.879	93602
0.489	93676	2.910	93601
0.505	93740	2.920	93799


Parameter=Total Nitrogen (mg/L) River Kilometer=23.6 Level=Bottom
Percent
30
25
20
15
10
5
0
0.25
0.5
0.75
1
1.25
1.5
1.75
2
2.25
2.5
2.75
3
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	266	**Sum Weights**	266
Mean	1.3892218	**Sum Observations**	369.533
Std Deviation	0.46036146	**Variance**	0.21193267
Skewness	1.89532624	**Kurtosis**	14.1332923
Uncorrected SS	569.525459	**Corrected SS**	56.1621579
Coeff Variation	33.1380818	**Std Error Mean**	0.02822657

Basic Statistical Measures			
Location		**Variability**	
Mean	1.389222	**Std Deviation**	0.46036
Median	1.412000	**Variance**	0.21193
Mode	1.470000	**Range**	4.68400
		Interquartile Range	0.55900

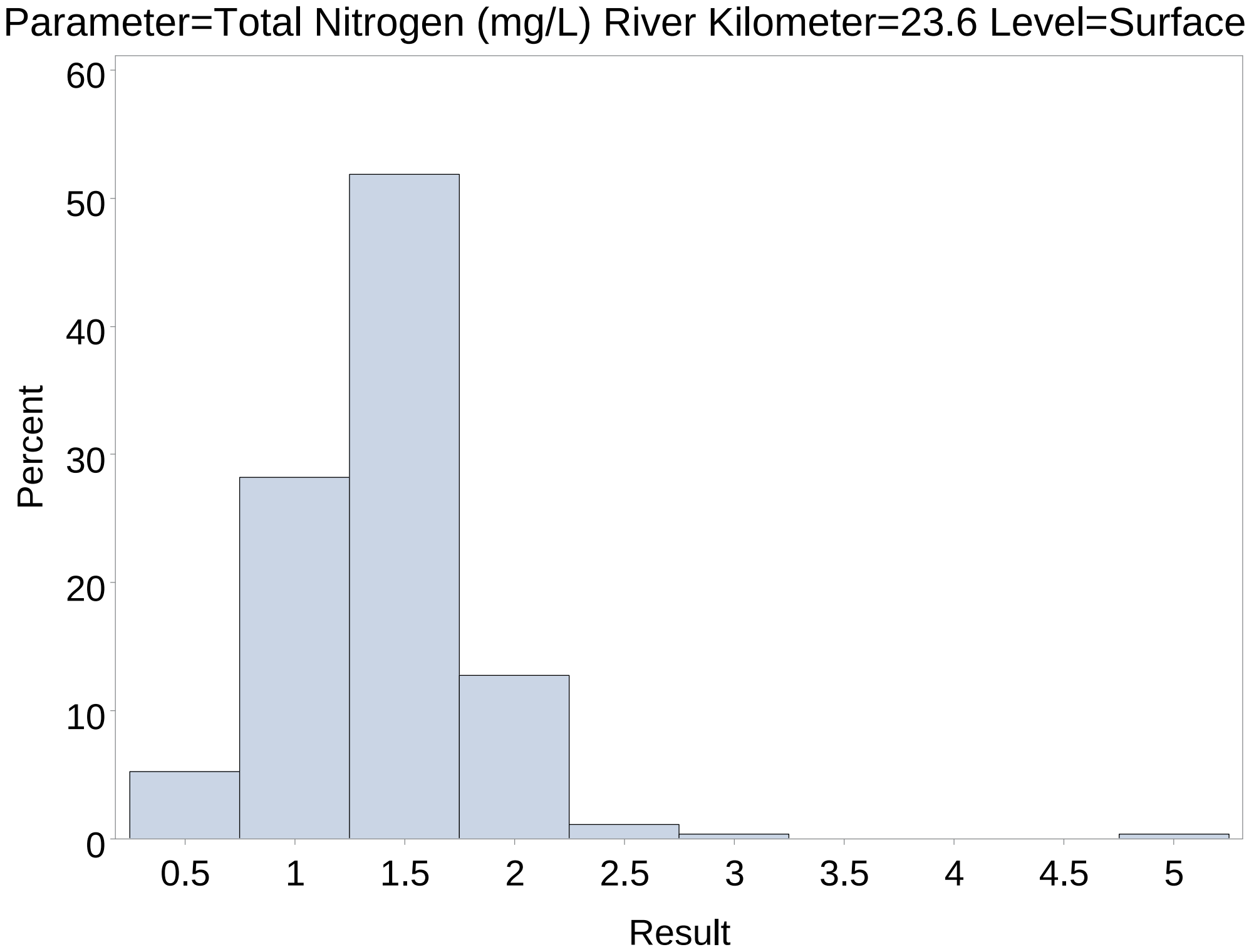
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.21681	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.020
99%	2.605
95%	2.060
90%	1.830
75% Q3	1.639
50% Median	1.412
25% Q1	1.080
10%	0.830
5%	0.740
1%	0.392
0% Min	0.336

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.336	93869	2.290	94056
0.359	93945	2.300	93843
0.392	94007	2.605	93867
0.485	94006	3.040	93866
0.516	93958	5.020	93891


Parameter=Total Nitrogen (mg/L) River Kilometer=23.6 Level=Surface
Percent
60
50
40
30
20
10
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	264	**Sum Weights**	264
Mean	1.48349242	**Sum Observations**	391.642
Std Deviation	0.47576161	**Variance**	0.22634911
Skewness	0.80925124	**Kurtosis**	3.18748628
Uncorrected SS	640.527756	**Corrected SS**	59.529816
Coeff Variation	32.0703768	**Std Error Mean**	0.0292811

Basic Statistical Measures			
Location		**Variability**	
Mean	1.483492	**Std Deviation**	0.47576
Median	1.500000	**Variance**	0.22635
Mode	1.580000	**Range**	3.71500
		Interquartile Range	0.56750

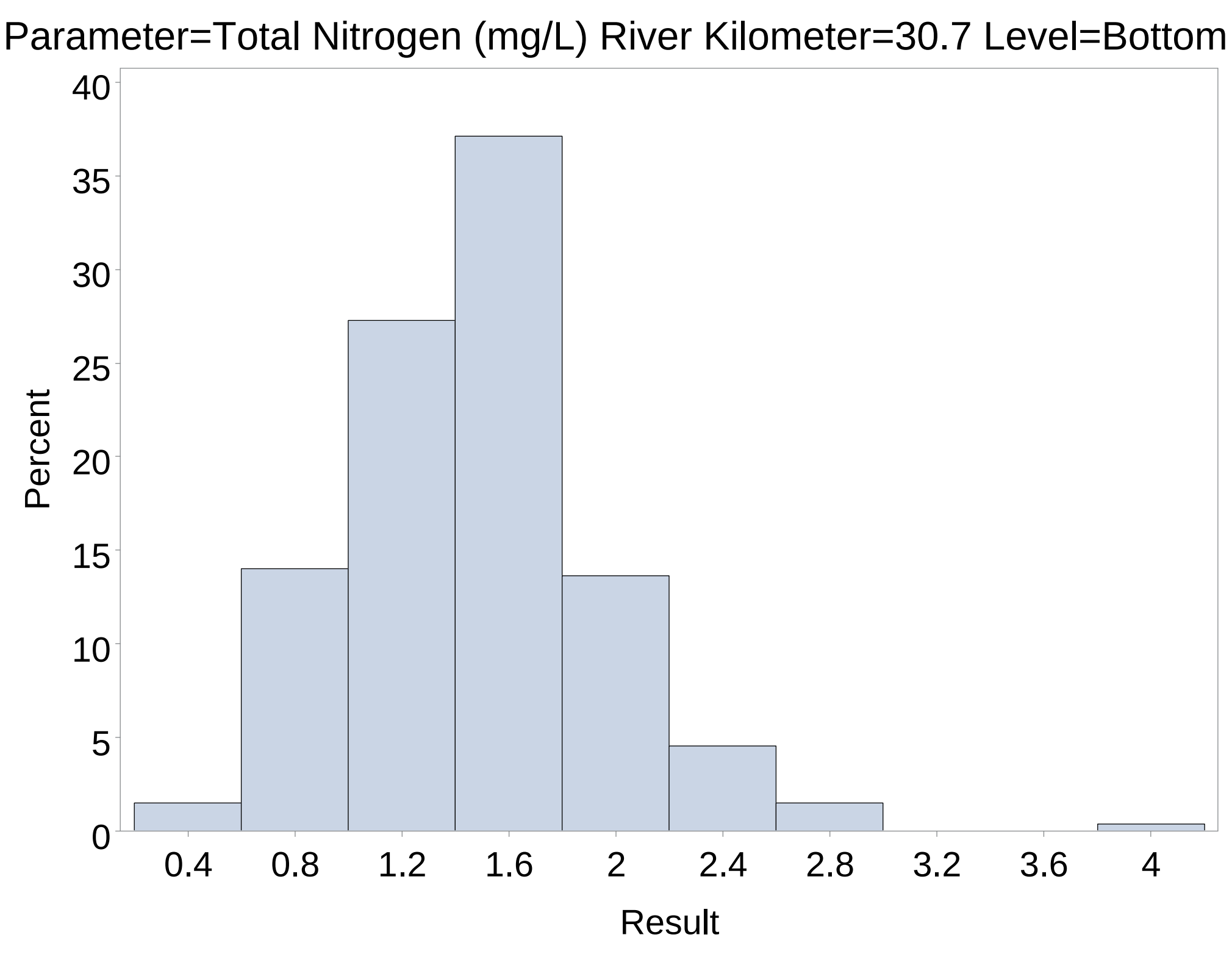
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.66382	**Pr > |t|**	<.0001
Sign	**M**	132	**Pr >= |M|**	<.0001
Signed Rank	**S**	17490	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.0700
99%	2.9490
95%	2.2400
90%	1.9790
75% Q3	1.7475
50% Median	1.5000
25% Q1	1.1800
10%	0.8800
5%	0.7700
1%	0.4870
0% Min	0.3550

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.355	94210	2.600	94137
0.435	94206	2.784	94176
0.487	94207	2.949	94219
0.540	94119	2.970	94131
0.618	94208	4.070	94329


Parameter=Total Nitrogen (mg/L) River Kilometer=30.7 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	265	**Sum Weights**	265
Mean	1.46855094	**Sum Observations**	389.166
Std Deviation	0.47609305	**Variance**	0.22666459
Skewness	1.58674673	**Kurtosis**	10.9435058
Uncorrected SS	631.349548	**Corrected SS**	59.8394516
Coeff Variation	32.4192395	**Std Error Mean**	0.02924616

Basic Statistical Measures			
Location		**Variability**	
Mean	1.468551	**Std Deviation**	0.47609
Median	1.469000	**Variance**	0.22666
Mode	1.330000	**Range**	4.66400
		Interquartile Range	0.53000

Note: The mode displayed is the smallest of 7 modes with a count of 3.

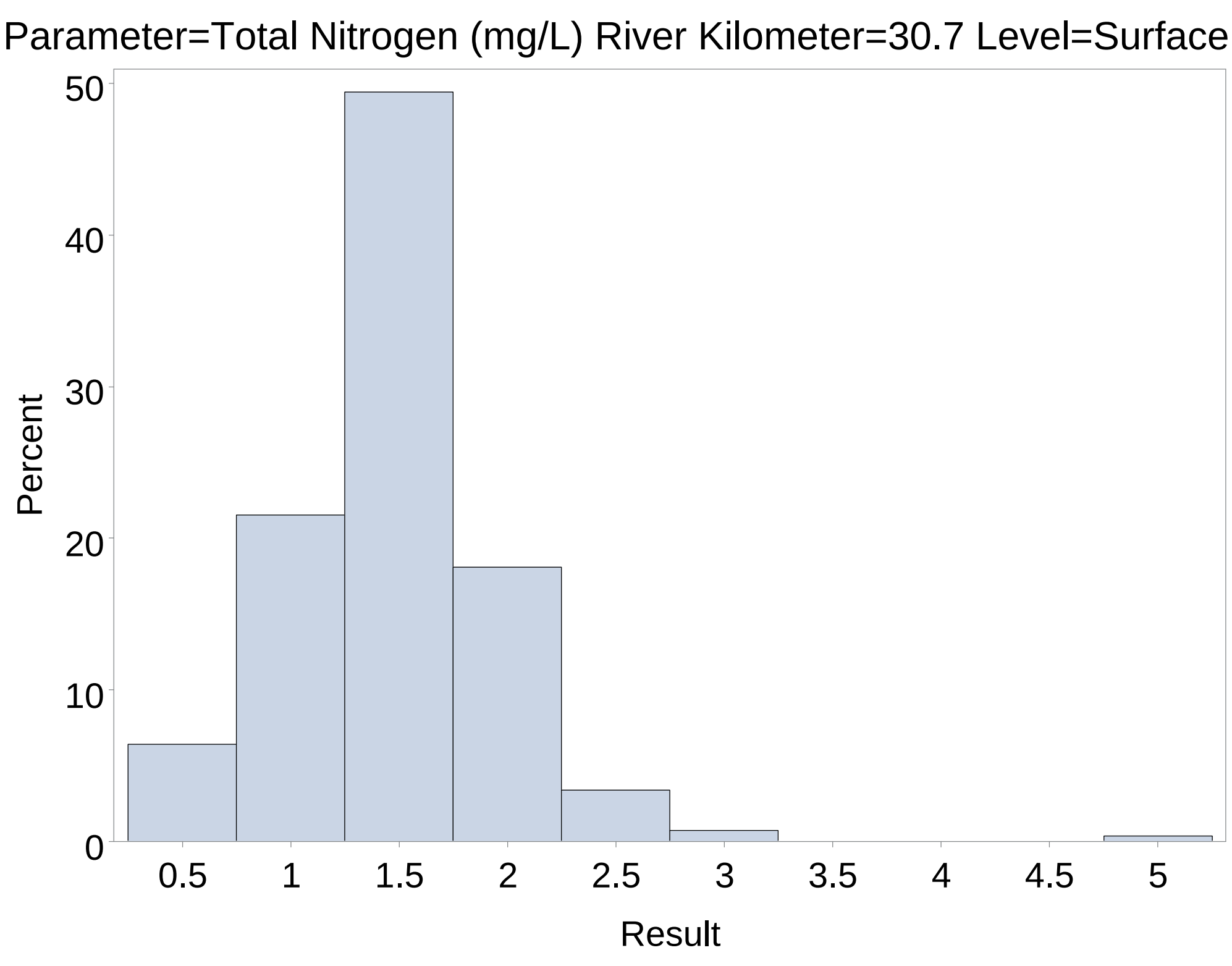
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	50.21346	**Pr > |t|**	<.0001
Sign	**M**	132.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17622.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.010
99%	2.824
95%	2.190
90%	1.940
75% Q3	1.723
50% Median	1.469
25% Q1	1.193
10%	0.890
5%	0.720
1%	0.561
0% Min	0.346

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Nitrogen (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.346	94475	2.400	94347
0.449	94472	2.511	94391
0.561	94473	2.824	94441
0.575	94471	2.870	94396
0.587	94428	5.010	94594


Parameter=Total Nitrogen (mg/L) River Kilometer=30.7 Level=Surface
Percent
50
40
30
20
10
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	79	**Sum Weights**	79
Mean	8.8935443	**Sum Observations**	702.59
Std Deviation	7.26903444	**Variance**	52.8388616
Skewness	2.55287385	**Kurtosis**	6.34882217
Uncorrected SS	10369.9465	**Corrected SS**	4121.43121
Coeff Variation	81.7338306	**Std Error Mean**	0.81783027

Basic Statistical Measures			
Location		**Variability**	
Mean	8.893544	**Std Deviation**	7.26903
Median	6.800000	**Variance**	52.83886
Mode	5.300000	**Range**	35.00000
		Interquartile Range	4.46000

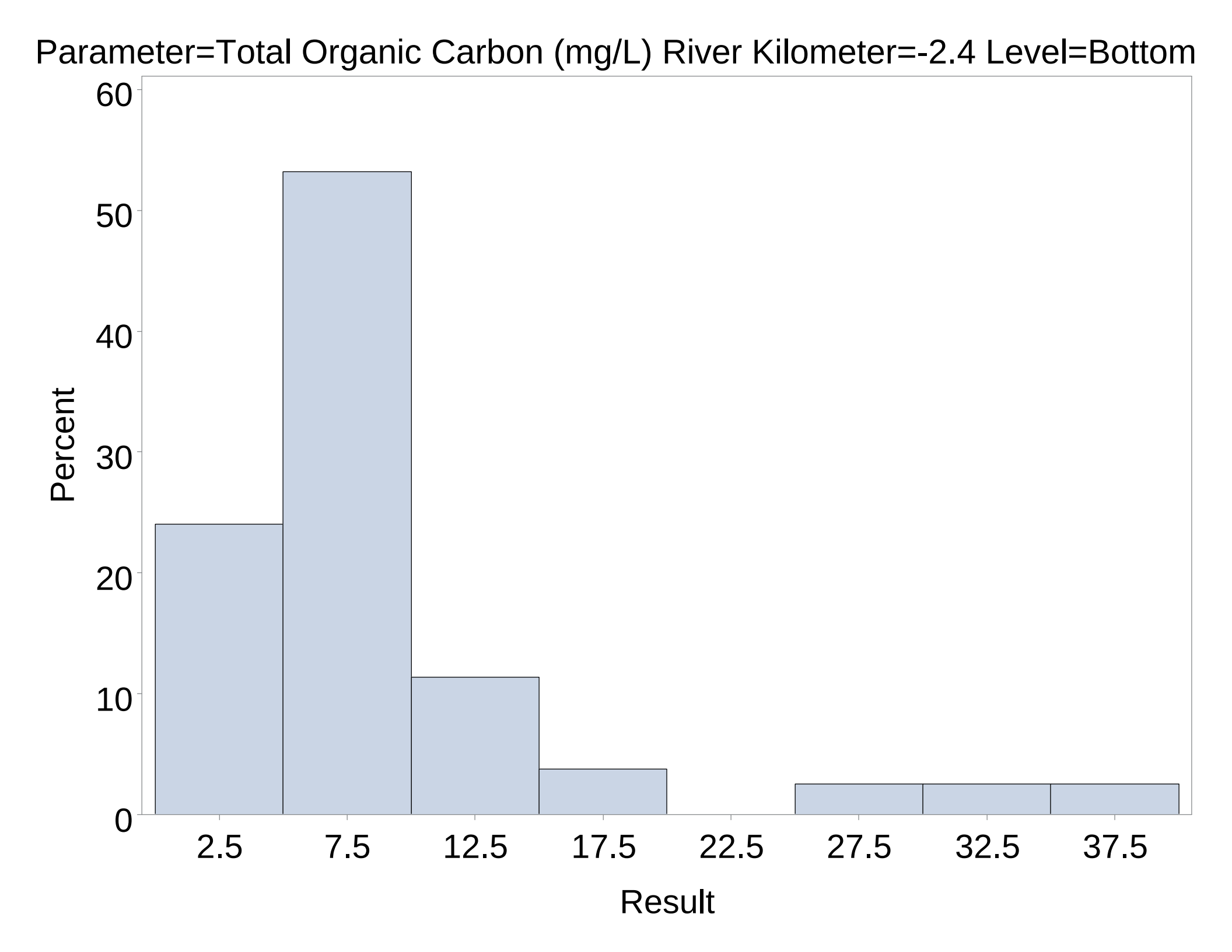
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.87456	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37.00
99%	37.00
95%	31.00
90%	15.80
75% Q3	9.46
50% Median	6.80
25% Q1	5.00
10%	3.83
5%	3.60
1%	2.00
0% Min	2.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.00	94651	27	94605
2.28	94658	31	94610
3.49	94660	32	94606
3.60	94659	36	94604
3.60	94631	37	94607


Parameter=Total Organic Carbon (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
60
50
40
30
20
10
0
2.5
7.5
12.5
17.5
22.5
27.5
32.5
37.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	79	**Sum Weights**	79
Mean	11.1708861	**Sum Observations**	882.5
Std Deviation	9.78498722	**Variance**	95.7459748
Skewness	3.48386203	**Kurtosis**	16.7163057
Uncorrected SS	17326.493	**Corrected SS**	7468.18604
Coeff Variation	87.5936533	**Std Error Mean**	1.10089707

Basic Statistical Measures			
Location		**Variability**	
Mean	11.17089	**Std Deviation**	9.78499
Median	8.20000	**Variance**	95.74597
Mode	11.00000	**Range**	67.51000
		Interquartile Range	6.50000

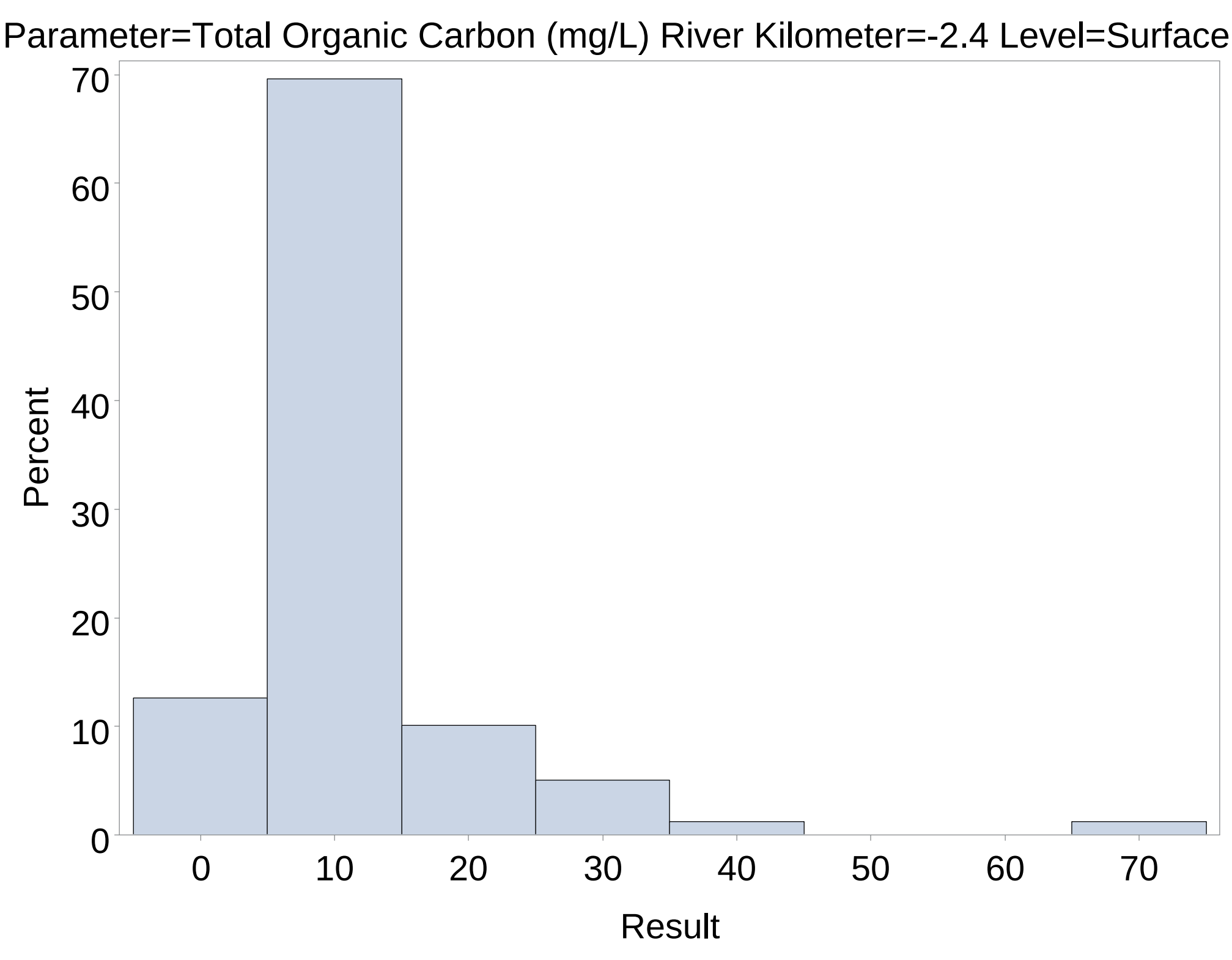
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.14708	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	70.00
99%	70.00
95%	32.00
90%	22.70
75% Q3	12.30
50% Median	8.20
25% Q1	5.80
10%	4.40
5%	3.59
1%	2.49
0% Min	2.49

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.49	94737	29.3	94743
3.00	94730	32.0	94685
3.36	94738	32.0	94689
3.59	94739	38.0	94686
3.73	94734	70.0	94683


Parameter=Total Organic Carbon (mg/L) River Kilometer=-2.4 Level=Surface
Percent
70
60
50
40
30
20
10
0
0
10
20
30
40
50
60
70
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	80	**Sum Weights**	80
Mean	10.791125	**Sum Observations**	863.29
Std Deviation	7.47581349	**Variance**	55.8877873
Skewness	2.26396738	**Kurtosis**	4.65703576
Uncorrected SS	13731.0055	**Corrected SS**	4415.1352
Coeff Variation	69.2774246	**Std Error Mean**	0.83582136

Basic Statistical Measures			
Location		**Variability**	
Mean	10.79113	**Std Deviation**	7.47581
Median	8.50000	**Variance**	55.88779
Mode	12.00000	**Range**	36.00000
		Interquartile Range	4.81500

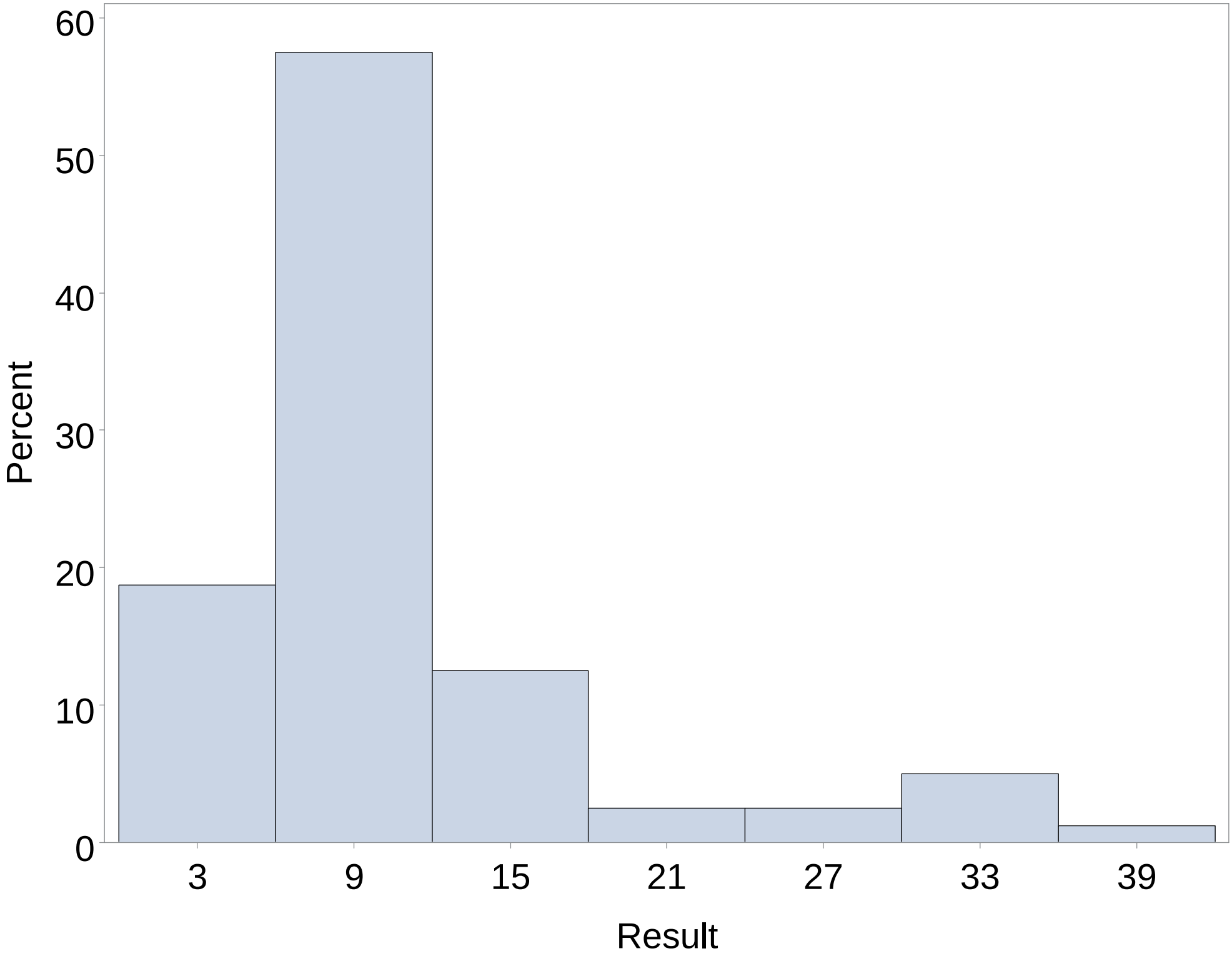
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.9108	**Pr > |t|**	<.0001
Sign	**M**	40	**Pr >= |M|**	<.0001
Signed Rank	**S**	1620	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	39.000
99%	39.000
95%	31.050
90%	21.500
75% Q3	11.500
50% Median	8.500
25% Q1	6.685
10%	5.300
5%	4.875
1%	3.000
0% Min	3.000

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.00	94809	30.1	94821
3.61	94817	32.0	94768
4.77	94819	33.0	94764
4.85	94816	35.0	94762
4.90	94789	39.0	94765


60
50
40
30
20
10
0
Percent
3
9
15
21
27
33
39
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	80	**Sum Weights**	80
Mean	13.2835	**Sum Observations**	1062.68
Std Deviation	8.44855124	**Variance**	71.378018
Skewness	1.60694908	**Kurtosis**	1.96434417
Uncorrected SS	19754.9732	**Corrected SS**	5638.86342
Coeff Variation	63.6018462	**Std Error Mean**	0.94457674

Basic Statistical Measures			
Location		**Variability**	
Mean	13.28350	**Std Deviation**	8.44855
Median	10.00000	**Variance**	71.37802
Mode	6.70000	**Range**	35.76000
		Interquartile Range	8.35000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

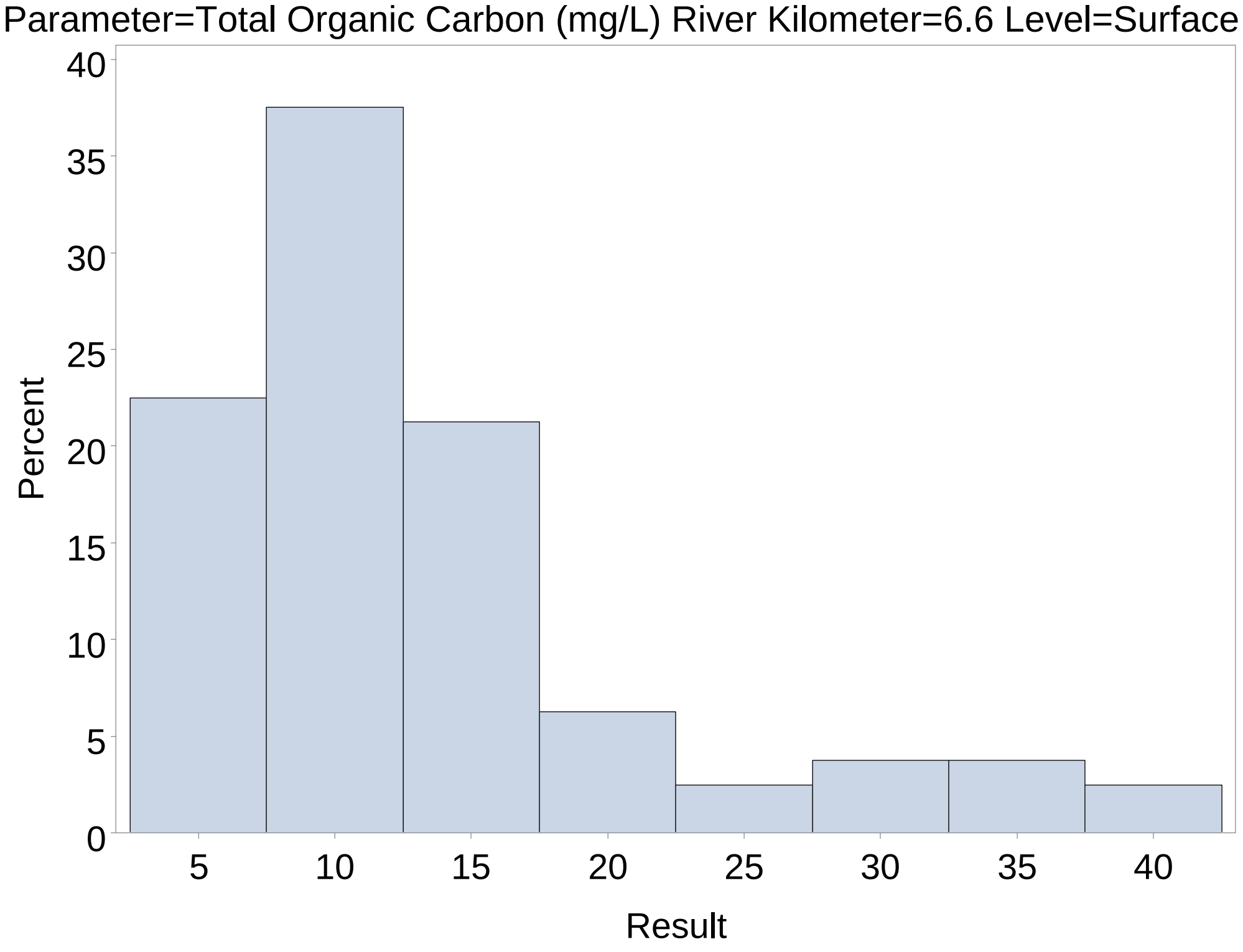
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.06291	**Pr > |t|**	<.0001
Sign	**M**	40	**Pr >= |M|**	<.0001
Signed Rank	**S**	1620	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	39.400
99%	39.400
95%	34.050
90%	27.100
75% Q3	15.950
50% Median	10.000
25% Q1	7.600
10%	6.305
5%	5.800
1%	3.640
0% Min	3.640

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.64	94897	34.0	94842
4.69	94896	34.1	94903
5.00	94889	35.0	94844
5.72	94898	39.0	94845
5.88	94895	39.4	94920


Parameter=Total Organic Carbon (mg/L) River Kilometer=6.6 Level=Surface
Percent
0
5
10
15
20
25
30
35
40
5
10
15
20
25
30
35
40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	80	**Sum Weights**	80
Mean	16.956375	**Sum Observations**	1356.51
Std Deviation	8.80432463	**Variance**	77.5161323
Skewness	1.54201694	**Kurtosis**	2.17050492
Uncorrected SS	29125.2667	**Corrected SS**	6123.77445
Coeff Variation	51.9233895	**Std Error Mean**	0.98435342

Basic Statistical Measures			
Location		**Variability**	
Mean	16.95638	**Std Deviation**	8.80432
Median	14.25000	**Variance**	77.51613
Mode	14.00000	**Range**	42.41000
		Interquartile Range	9.10000

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

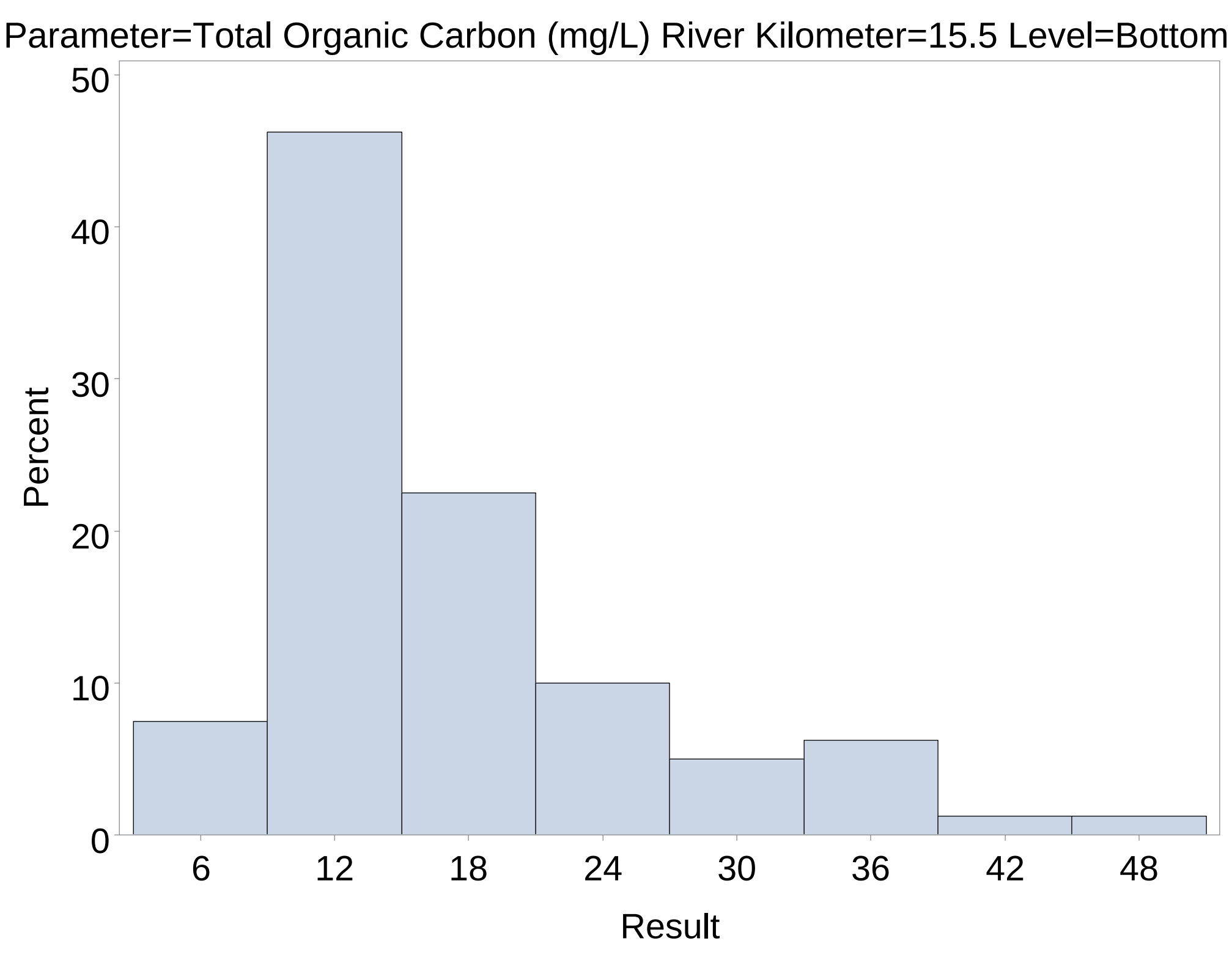
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.2259	**Pr > |t|**	<.0001
Sign	**M**	40	**Pr >= |M|**	<.0001
Signed Rank	**S**	1620	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	49.20
99%	49.20
95%	37.15
90%	29.00
75% Q3	20.00
50% Median	14.25
25% Q1	10.90
10%	9.10
5%	8.25
1%	6.79
0% Min	6.79

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.79	94977	37.1	94981
7.00	94969	37.2	94983
7.30	94926	38.0	94924
8.10	94966	41.0	94925
8.40	94965	49.2	95000


Parameter=Total Organic Carbon (mg/L) River Kilometer=15.5 Level=Bottom
Percent
50
40
30
20
10
0
6
12
18
24
30
36
42
48
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	80	**Sum Weights**	80
Mean	17.449	**Sum Observations**	1395.92
Std Deviation	8.50625453	**Variance**	72.3563661
Skewness	1.40412572	**Kurtosis**	1.44807392
Uncorrected SS	30073.561	**Corrected SS**	5716.15292
Coeff Variation	48.7492379	**Std Error Mean**	0.95102817

Basic Statistical Measures			
Location		**Variability**	
Mean	17.44900	**Std Deviation**	8.50625
Median	14.75000	**Variance**	72.35637
Mode	12.00000	**Range**	37.55000
		Interquartile Range	8.95000

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

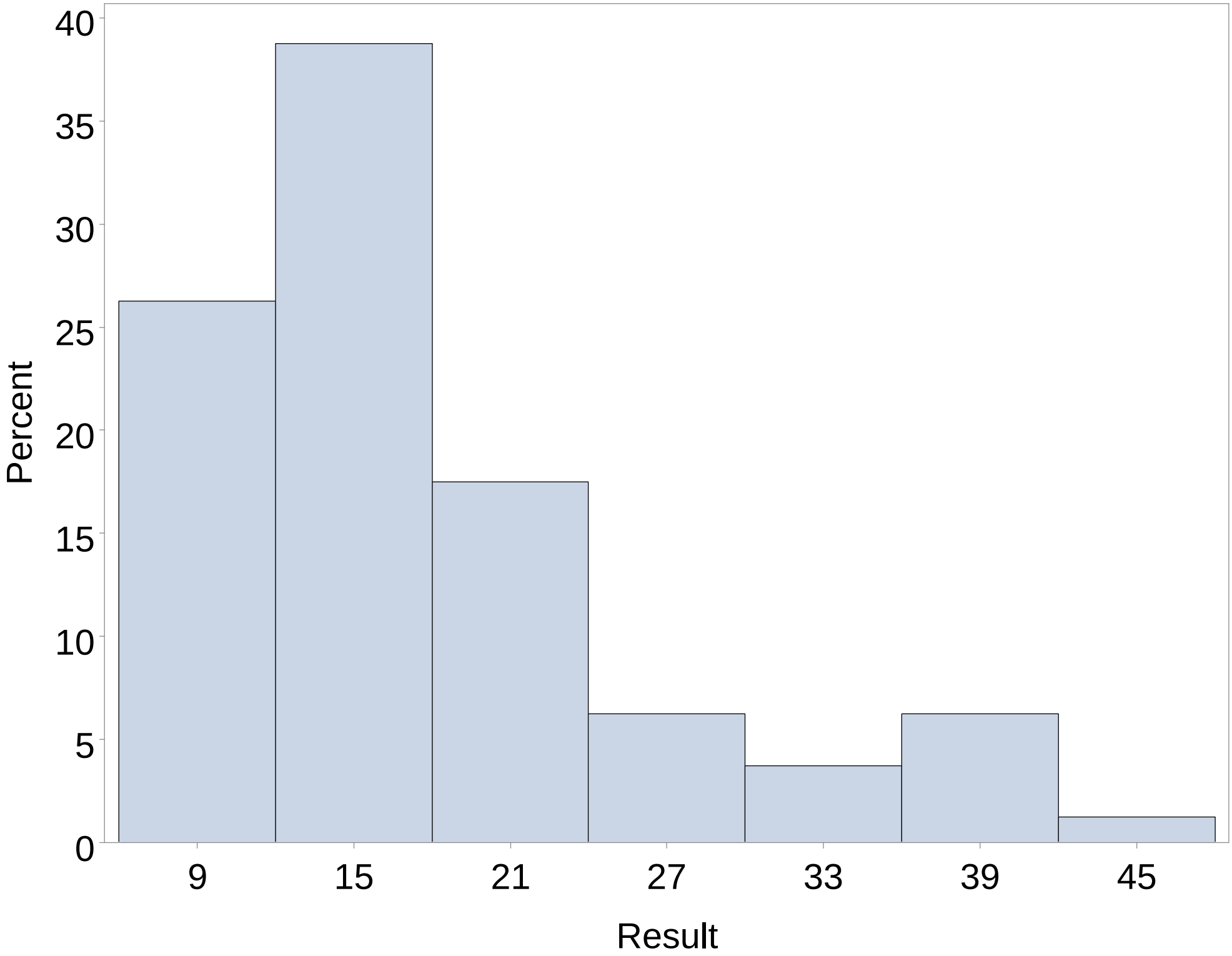
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.34751	**Pr > |t|**	<.0001
Sign	**M**	40	**Pr >= |M|**	<.0001
Signed Rank	**S**	1620	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	44.500
99%	44.500
95%	37.100
90%	31.150
75% Q3	20.400
50% Median	14.750
25% Q1	11.450
10%	9.415
5%	8.720
1%	6.950
0% Min	6.950

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.95	95057	36.2	95061
7.70	95006	38.0	95004
8.40	95045	38.7	95063
8.70	95046	41.0	95005
8.74	95056	44.5	95080


40
35
30
25
20
15
10
5
0
Percent
9
15
21
27
33
39
45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	79	**Sum Weights**	79
Mean	19.1449367	**Sum Observations**	1512.45
Std Deviation	8.32863686	**Variance**	69.366192
Skewness	1.26589856	**Kurtosis**	1.36729364
Uncorrected SS	34366.3225	**Corrected SS**	5410.56297
Coeff Variation	43.5030786	**Std Error Mean**	0.93704486

Basic Statistical Measures			
Location		**Variability**	
Mean	19.14494	**Std Deviation**	8.32864
Median	17.00000	**Variance**	69.36619
Mode	15.00000	**Range**	36.45000
		Interquartile Range	10.00000

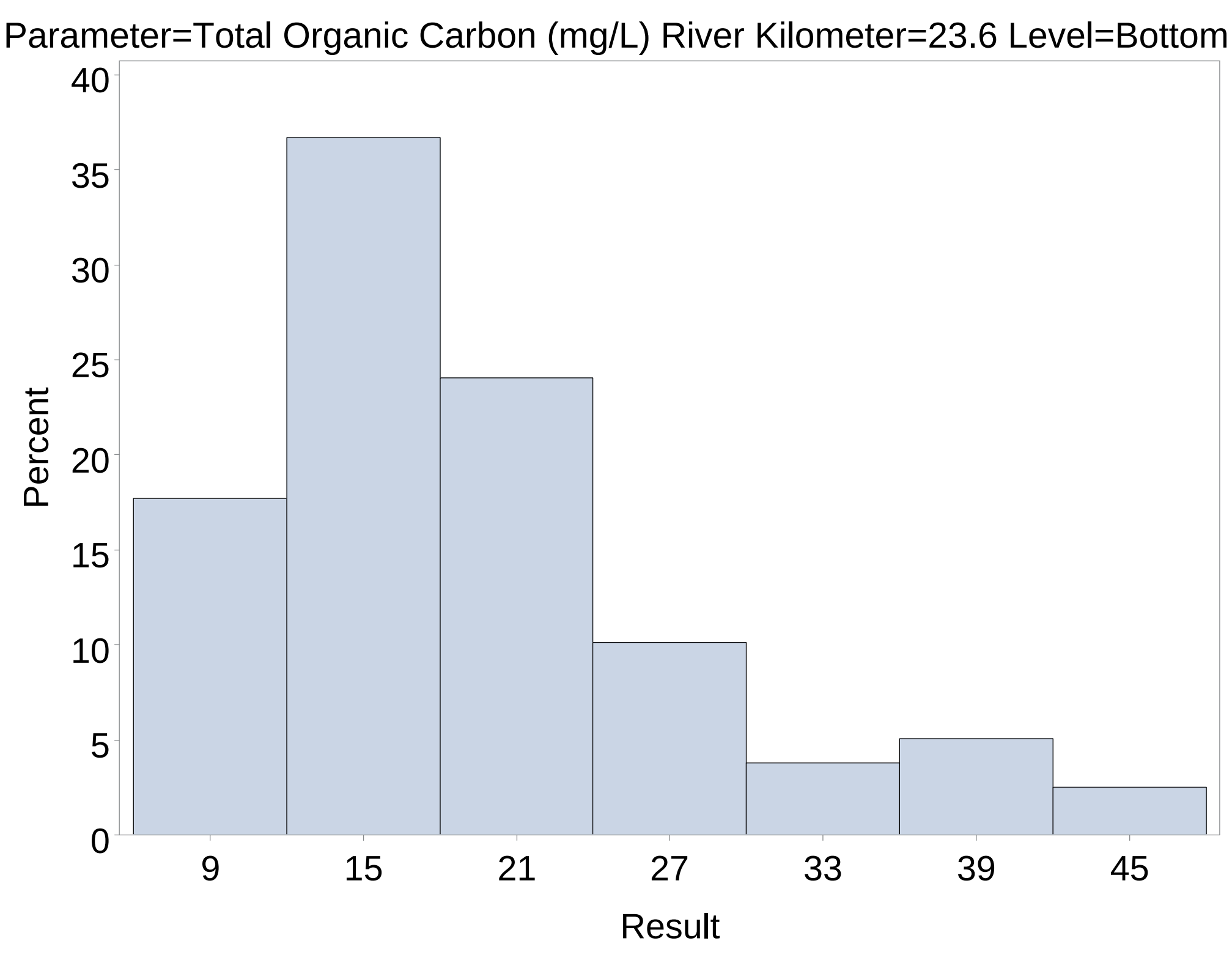
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.43118	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45.50
99%	45.50
95%	37.00
90%	31.00
75% Q3	23.00
50% Median	17.00
25% Q1	13.00
10%	11.00
5%	10.00
1%	9.05
0% Min	9.05

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.05	95136	36.6	95140
9.40	95086	37.0	95084
9.80	95124	39.0	95082
10.00	95125	45.0	95085
10.00	95112	45.5	95159


Parameter=Total Organic Carbon (mg/L) River Kilometer=23.6 Level=Bottom
Percent
0
5
10
15
20
25
30
35
40
9
15
21
27
33
39
45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	80	**Sum Weights**	80
Mean	19.136625	**Sum Observations**	1530.93
Std Deviation	8.34055487	**Variance**	69.5648556
Skewness	1.28206562	**Kurtosis**	1.37862898
Uncorrected SS	34792.4569	**Corrected SS**	5495.62359
Coeff Variation	43.584252	**Std Error Mean**	0.93250238

Basic Statistical Measures			
Location		**Variability**	
Mean	19.13663	**Std Deviation**	8.34055
Median	16.00000	**Variance**	69.56486
Mode	15.00000	**Range**	36.20000
		Interquartile Range	10.50000

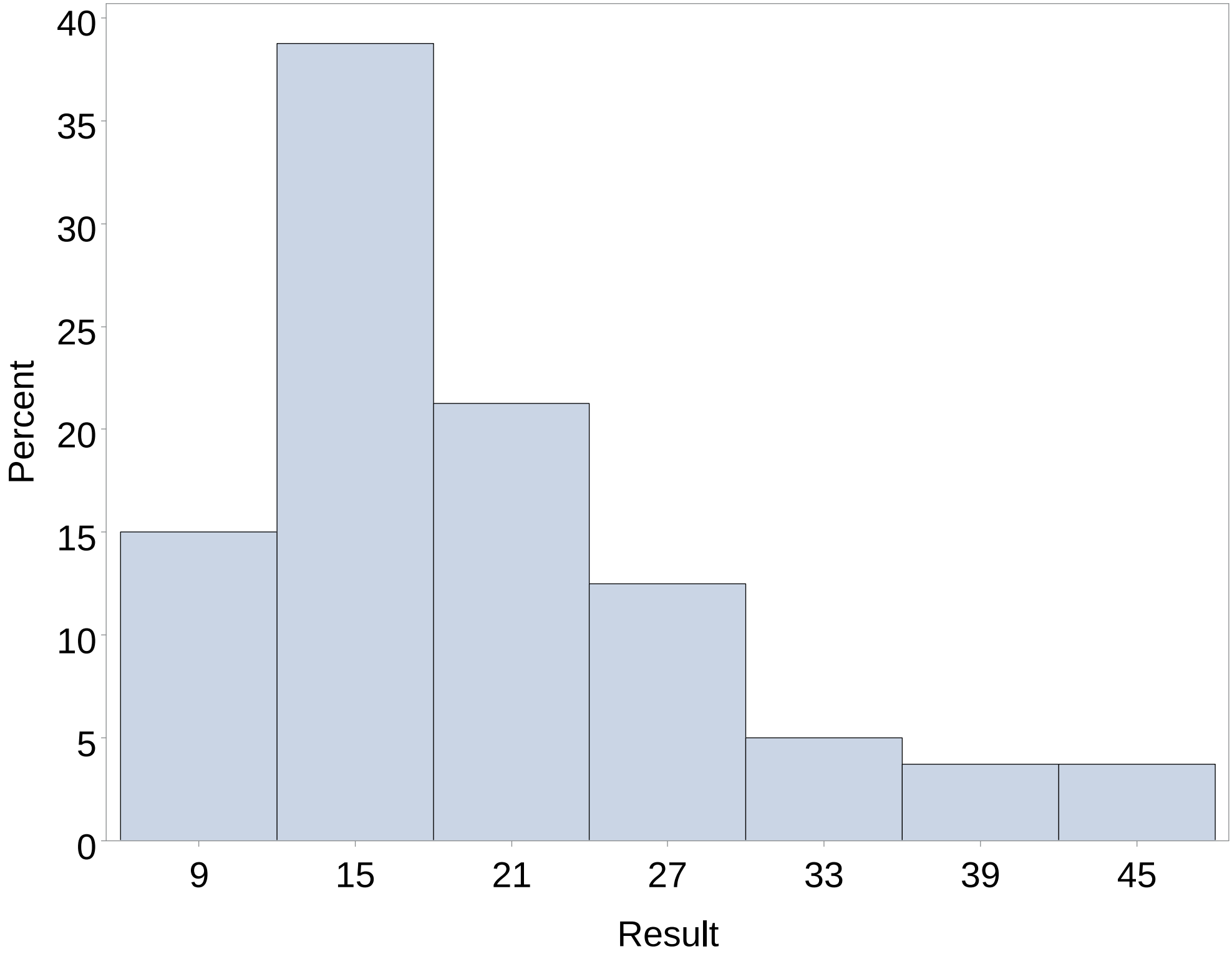
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.5218	**Pr > |t|**	<.0001
Sign	**M**	40	**Pr >= |M|**	<.0001
Signed Rank	**S**	1620	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45.30
99%	45.30
95%	36.55
90%	31.00
75% Q3	23.50
50% Median	16.00
25% Q1	13.00
10%	11.00
5%	9.95
1%	9.10
0% Min	9.10

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.10	95165	36.0	95222
9.13	95216	37.1	95220
9.80	95204	42.0	95164
9.90	95189	44.0	95161
10.00	95205	45.3	95239


40
35
30
25
20
15
10
5
0
Percent
9
15
21
27
33
39
45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	79	**Sum Weights**	79
Mean	19.2043038	**Sum Observations**	1517.14
Std Deviation	8.55187649	**Variance**	73.1345915
Skewness	1.15726258	**Kurtosis**	0.94487203
Uncorrected SS	34840.1156	**Corrected SS**	5704.49814
Coeff Variation	44.5310415	**Std Error Mean**	0.96216128

Basic Statistical Measures			
Location		**Variability**	
Mean	19.20430	**Std Deviation**	8.55188
Median	17.00000	**Variance**	73.13459
Mode	11.00000	**Range**	36.06000
		Interquartile Range	11.00000

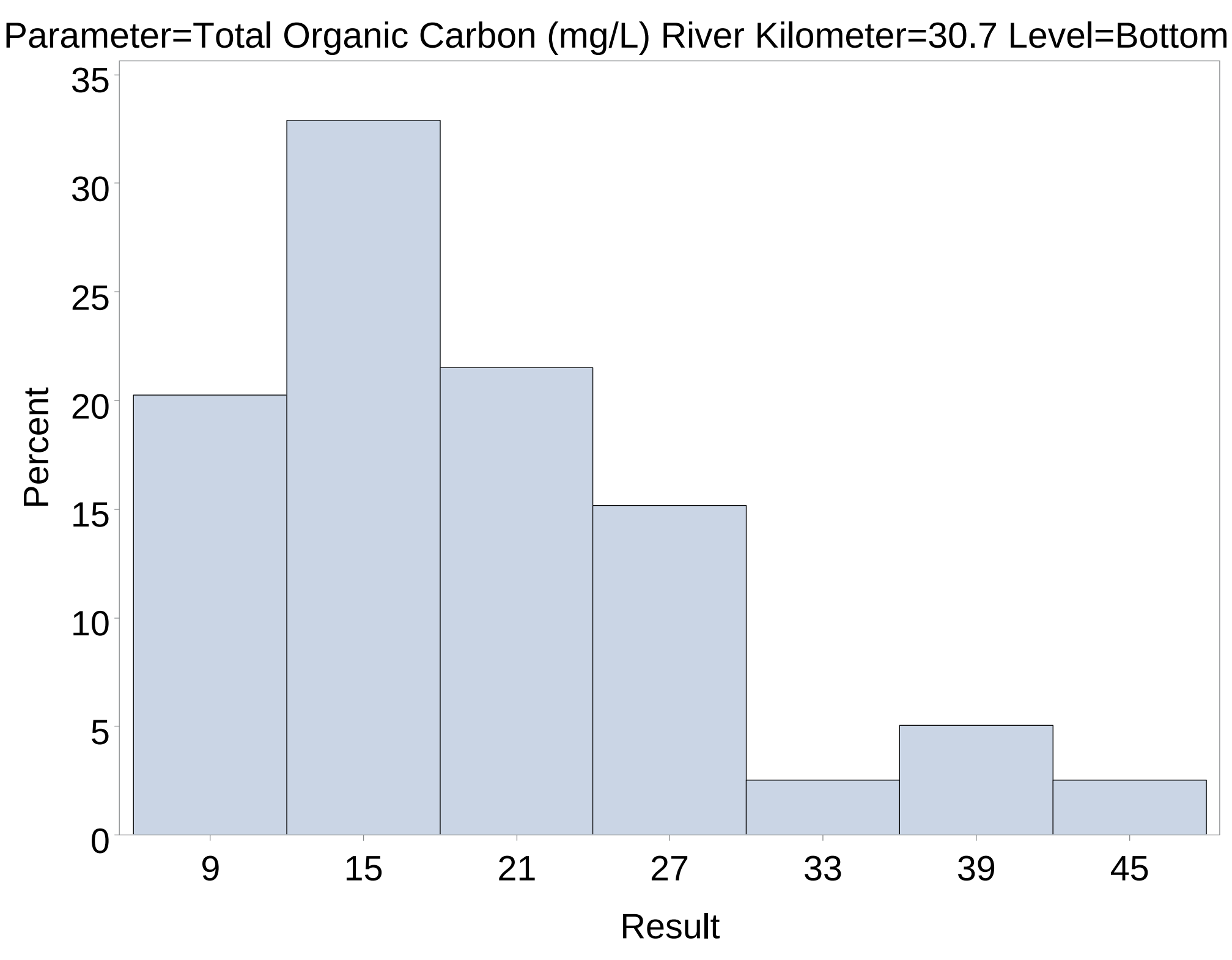
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.95955	**Pr > |t|**	<.0001
Sign	**M**	39.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1580	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	44.40
99%	44.40
95%	38.00
90%	32.00
75% Q3	24.00
50% Median	17.00
25% Q1	13.00
10%	10.00
5%	9.30
1%	8.34
0% Min	8.34

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.34	95295	37.5	95299
9.00	95294	38.0	95243
9.10	95284	41.0	95241
9.30	95272	44.0	95244
10.00	95285	44.4	95318


Parameter=Total Organic Carbon (mg/L) River Kilometer=30.7 Level=Bottom
Percent
35
30
25
20
15
10
5
0
9
15
21
27
33
39
45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	80	**Sum Weights**	80
Mean	18.5375	**Sum Observations**	1483
Std Deviation	8.45274107	**Variance**	71.4488316
Skewness	1.27955897	**Kurtosis**	1.32723301
Uncorrected SS	33135.5702	**Corrected SS**	5644.4577
Coeff Variation	45.5980638	**Std Error Mean**	0.94504518

Basic Statistical Measures			
Location		**Variability**	
Mean	18.53750	**Std Deviation**	8.45274
Median	16.20000	**Variance**	71.44883
Mode	11.00000	**Range**	36.84000
		Interquartile Range	10.75000

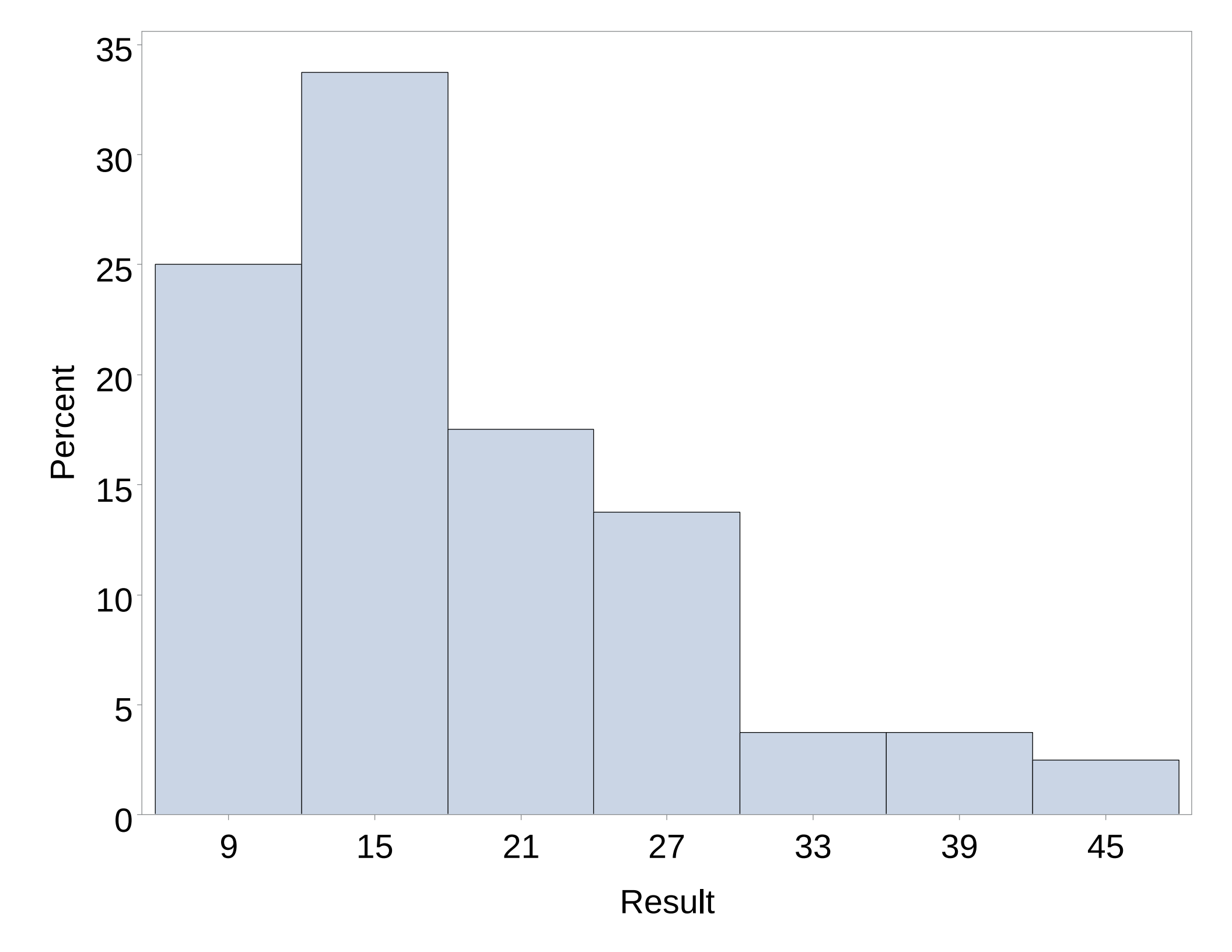
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.61546	**Pr > |t|**	<.0001
Sign	**M**	40	**Pr >= |M|**	<.0001
Signed Rank	**S**	1620	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45.500
99%	45.500
95%	37.500
90%	30.000
75% Q3	22.550
50% Median	16.200
25% Q1	11.800
10%	10.000
5%	9.475
1%	8.660
0% Min	8.660

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Organic Carbon (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.66	95375	36.8	95381
8.89	95374	38.2	95379
9.00	95363	39.0	95320
9.45	95373	44.0	95323
9.50	95351	45.5	95398


35
30
25
20
15
10
5
0
Percent
9
15
21
27
33
39
45
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	75	**Sum Weights**	75
Mean	0.16389333	**Sum Observations**	12.292
Std Deviation	0.08486182	**Variance**	0.00720153
Skewness	0.90379147	**Kurtosis**	0.24278572
Uncorrected SS	2.54749	**Corrected SS**	0.53291315
Coeff Variation	51.7786912	**Std Error Mean**	0.009799

Basic Statistical Measures			
Location		**Variability**	
Mean	0.163893	**Std Deviation**	0.08486
Median	0.140000	**Variance**	0.00720
Mode	0.120000	**Range**	0.35300
		Interquartile Range	0.12300

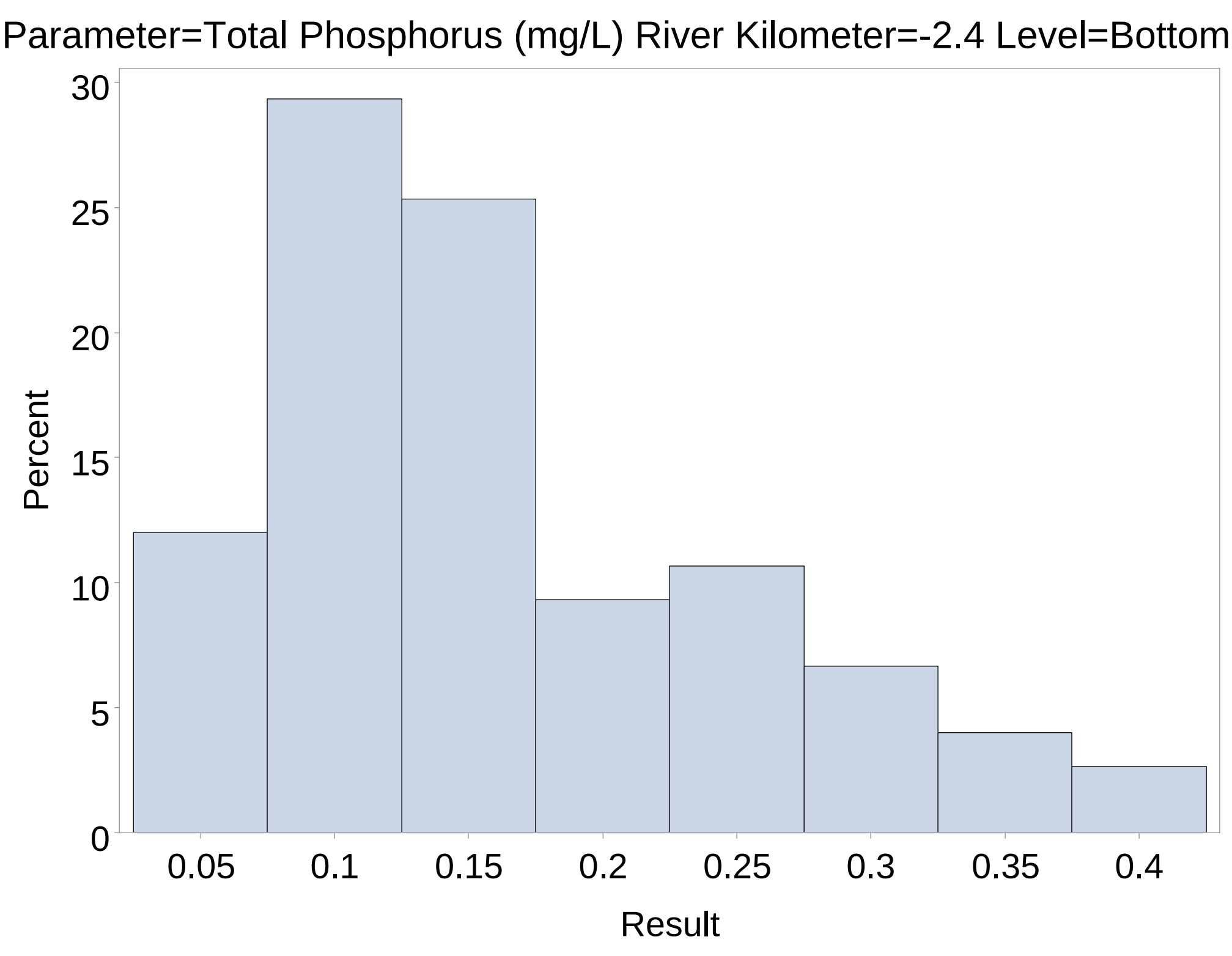
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.72552	**Pr > |t|**	<.0001
Sign	**M**	37.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1425	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.390
99%	0.390
95%	0.347
90%	0.280
75% Q3	0.223
50% Median	0.140
25% Q1	0.100
10%	0.070
5%	0.050
1%	0.037
0% Min	0.037

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.037	95453	0.340	95473
0.040	95410	0.347	95460
0.046	95452	0.351	95459
0.050	95405	0.390	95468
0.066	95450	0.390	95471


Parameter=Total Phosphorus (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
30
25
20
15
10
5
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	74	**Sum Weights**	74
Mean	0.1867027	**Sum Observations**	13.816
Std Deviation	0.12561277	**Variance**	0.01577857
Skewness	1.63578995	**Kurtosis**	3.39307032
Uncorrected SS	3.73132	**Corrected SS**	1.15183546
Coeff Variation	67.2795669	**Std Error Mean**	0.01460219

Basic Statistical Measures			
Location		**Variability**	
Mean	0.186703	**Std Deviation**	0.12561
Median	0.160000	**Variance**	0.01578
Mode	0.100000	**Range**	0.66900
		Interquartile Range	0.14500

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

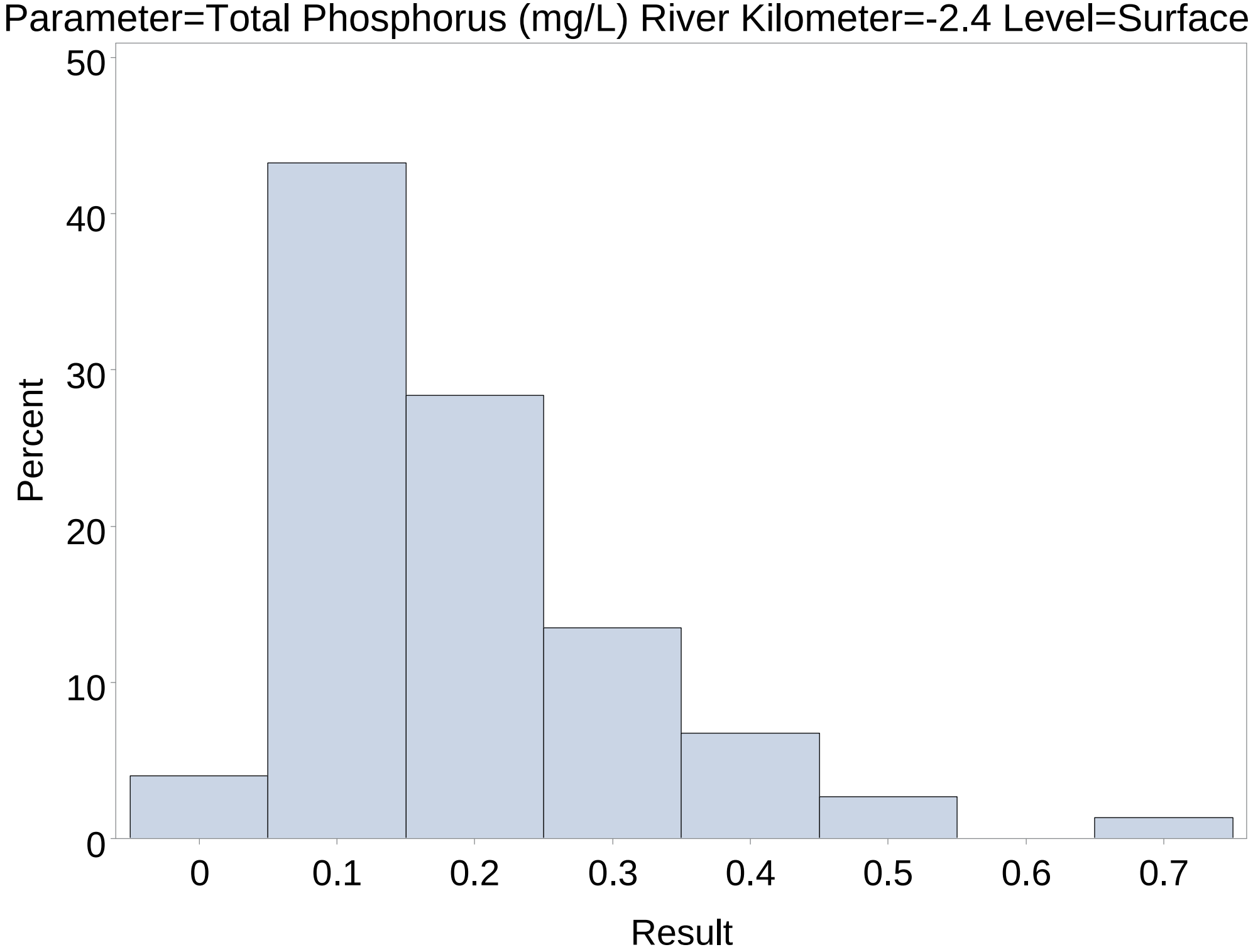
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.78594	**Pr > |t|**	<.0001
Sign	**M**	37	**Pr >= |M|**	<.0001
Signed Rank	**S**	1387.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.701
99%	0.701
95%	0.445
90%	0.356
75% Q3	0.245
50% Median	0.160
25% Q1	0.100
10%	0.070
5%	0.051
1%	0.032
0% Min	0.032

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.032	95527	0.440	95547
0.040	95484	0.445	95532
0.042	95526	0.490	95494
0.051	95530	0.520	95542
0.060	95480	0.701	95534


Parameter=Total Phosphorus (mg/L) River Kilometer=-2.4 Level=Surface
Percent
50
40
30
20
10
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	76	**Sum Weights**	76
Mean	0.30160526	**Sum Observations**	22.922
Std Deviation	0.13708451	**Variance**	0.01879216
Skewness	1.20919742	**Kurtosis**	2.7108939
Uncorrected SS	8.322808	**Corrected SS**	1.40941216
Coeff Variation	45.4516296	**Std Error Mean**	0.01572467

Basic Statistical Measures			
Location		**Variability**	
Mean	0.301605	**Std Deviation**	0.13708
Median	0.290000	**Variance**	0.01879
Mode	0.320000	**Range**	0.78000
		Interquartile Range	0.15150

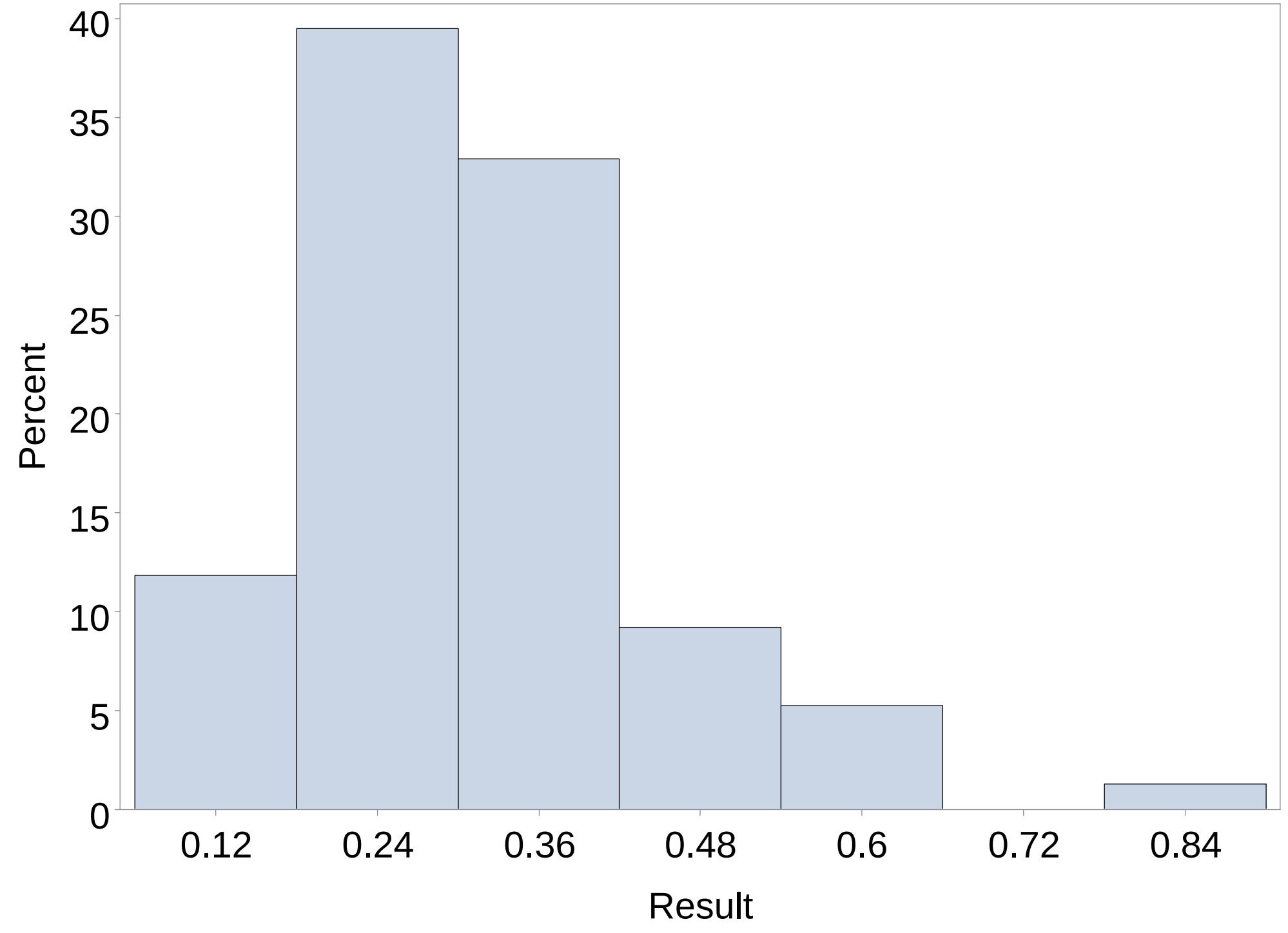
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.18039	**Pr > |t|**	<.0001
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.8400
99%	0.8400
95%	0.5690
90%	0.4600
75% Q3	0.3565
50% Median	0.2900
25% Q1	0.2050
10%	0.1700
5%	0.1080
1%	0.0600
0% Min	0.0600

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.060	95554	0.550	95567
0.078	95603	0.569	95610
0.085	95602	0.645	95600
0.108	95601	0.650	95618
0.110	95552	0.840	95565


Parameter=Total Phosphorus (mg/L) River Kilometer=6.6 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	75	**Sum Weights**	75
Mean	0.32833333	**Sum Observations**	24.625
Std Deviation	0.17466704	**Variance**	0.03050858
Skewness	1.46055351	**Kurtosis**	3.22318805
Uncorrected SS	10.342843	**Corrected SS**	2.25763467
Coeff Variation	53.1980847	**Std Error Mean**	0.02016881

Basic Statistical Measures			
Location		**Variability**	
Mean	0.328333	**Std Deviation**	0.17467
Median	0.280000	**Variance**	0.03051
Mode	0.140000	**Range**	0.96100
		Interquartile Range	0.22000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

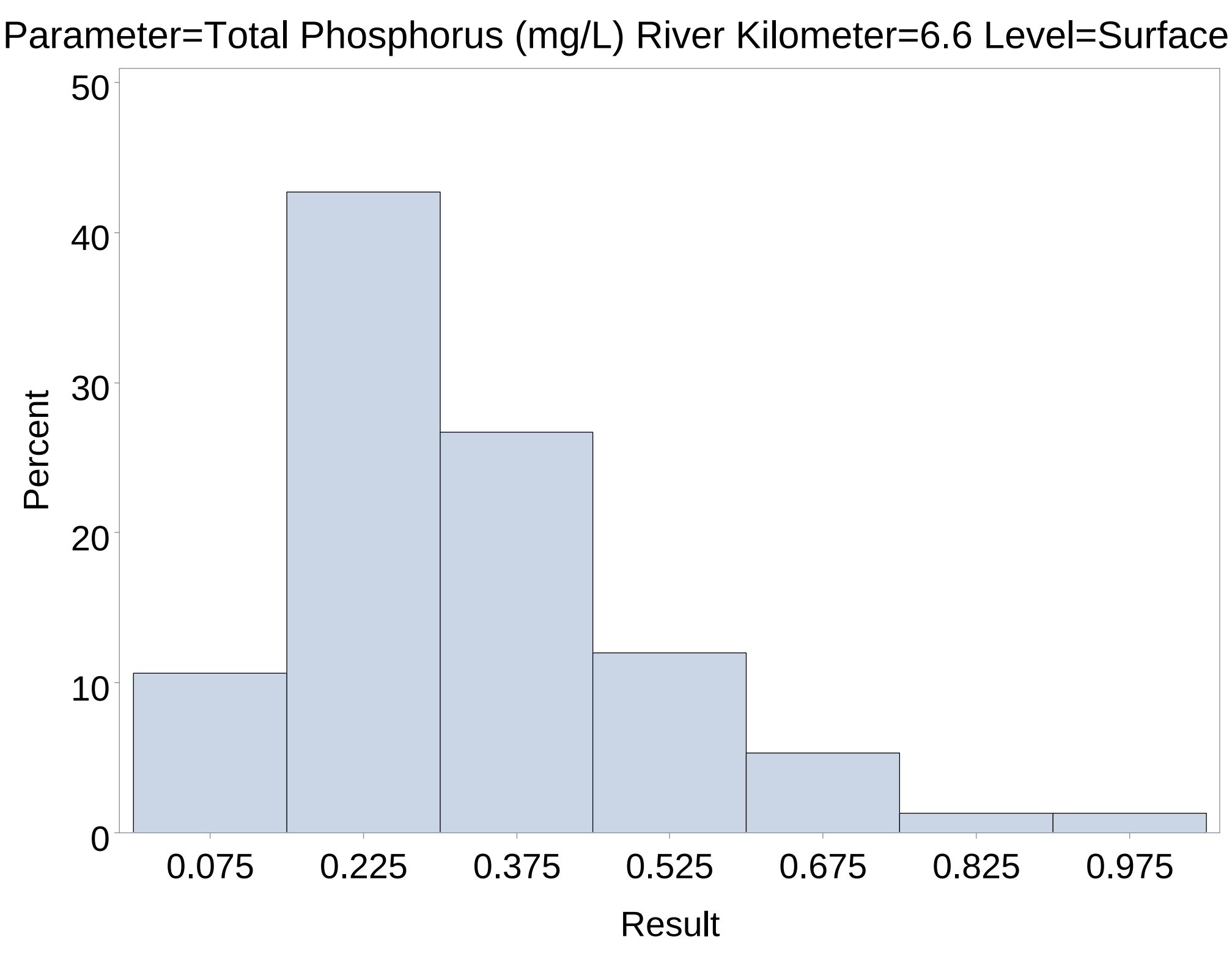
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.27926	**Pr > |t|**	<.0001
Sign	**M**	37.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1425	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.040
99%	1.040
95%	0.627
90%	0.560
75% Q3	0.420
50% Median	0.280
25% Q1	0.200
10%	0.149
5%	0.130
1%	0.079
0% Min	0.079

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.079	95678	0.610	95693
0.106	95674	0.627	95683
0.122	95677	0.650	95649
0.130	95628	0.860	95640
0.140	95665	1.040	95685


Parameter=Total Phosphorus (mg/L) River Kilometer=6.6 Level=Surface
50
40
30
20
10
0
Percent
0.075
0.225
0.375
0.525
0.675
0.825
0.975
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	76	**Sum Weights**	76
Mean	0.55338158	**Sum Observations**	42.057
Std Deviation	0.18642997	**Variance**	0.03475613
Skewness	0.95098045	**Kurtosis**	1.41390791
Uncorrected SS	25.880279	**Corrected SS**	2.60670993
Coeff Variation	33.6892253	**Std Error Mean**	0.02138498

Basic Statistical Measures			
Location		**Variability**	
Mean	0.553382	**Std Deviation**	0.18643
Median	0.540000	**Variance**	0.03476
Mode	0.460000	**Range**	0.95400
		Interquartile Range	0.19700

Note: The mode displayed is the smallest of 3 modes with a count of 4.

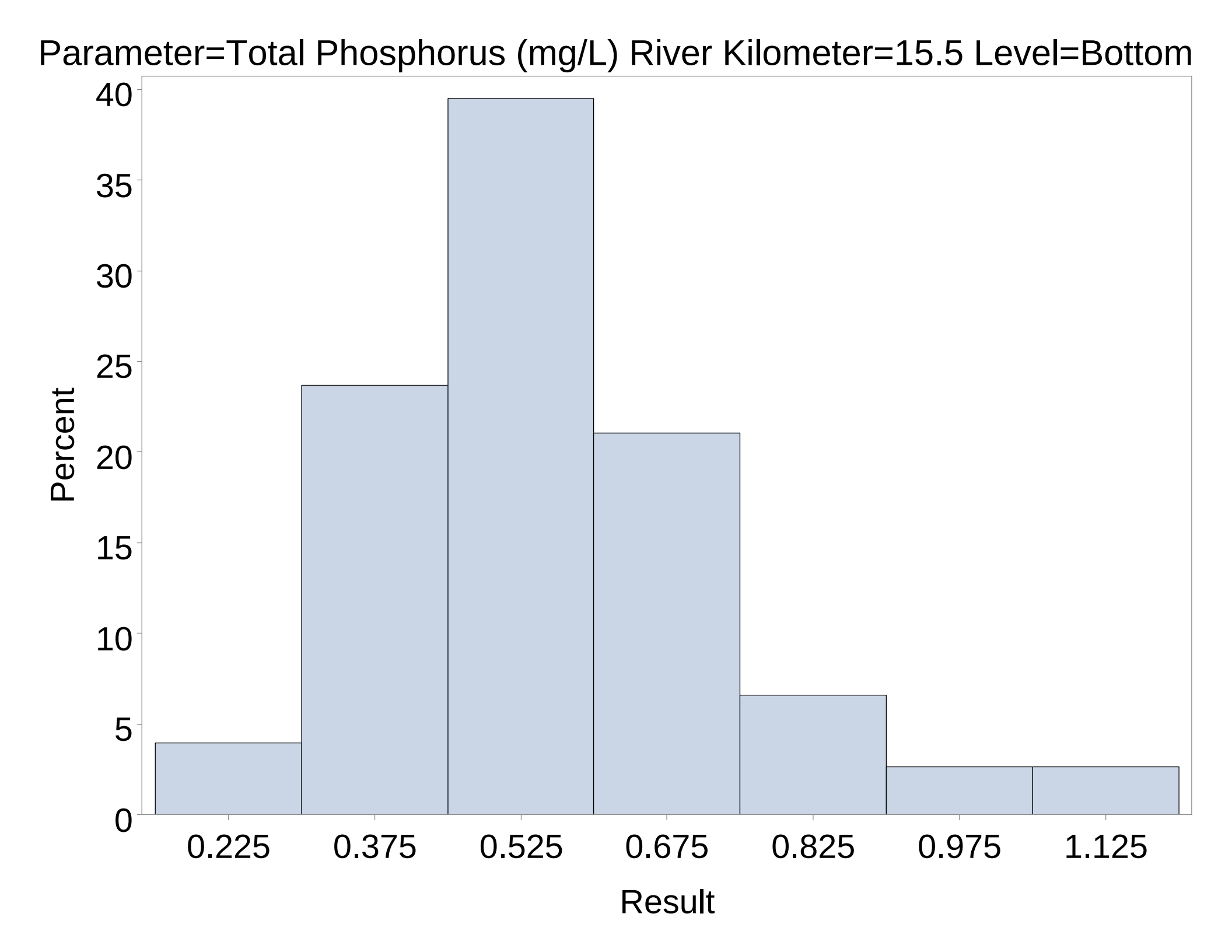
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.87711	**Pr > |t|**	<.0001
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.1700
99%	1.1700
95%	0.9570
90%	0.8000
75% Q3	0.6315
50% Median	0.5400
25% Q1	0.4345
10%	0.3460
5%	0.3180
1%	0.2160
0% Min	0.2160

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.216	95754	0.850	95720
0.227	95755	0.957	95759
0.250	95753	0.970	95769
0.318	95752	1.100	95726
0.330	95704	1.170	95761


Parameter=Total Phosphorus (mg/L) River Kilometer=15.5 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0.225
0.375
0.525
0.675
0.825
0.975
1.125
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	76	**Sum Weights**	76
Mean	0.56060526	**Sum Observations**	42.606
Std Deviation	0.18996885	**Variance**	0.03608816
Skewness	1.15398534	**Kurtosis**	2.62648729
Uncorrected SS	26.59176	**Corrected SS**	2.70661216
Coeff Variation	33.8863827	**Std Error Mean**	0.02179092

Basic Statistical Measures			
Location		**Variability**	
Mean	0.560605	**Std Deviation**	0.18997
Median	0.560000	**Variance**	0.03609
Mode	0.560000	**Range**	1.05600
		Interquartile Range	0.23500

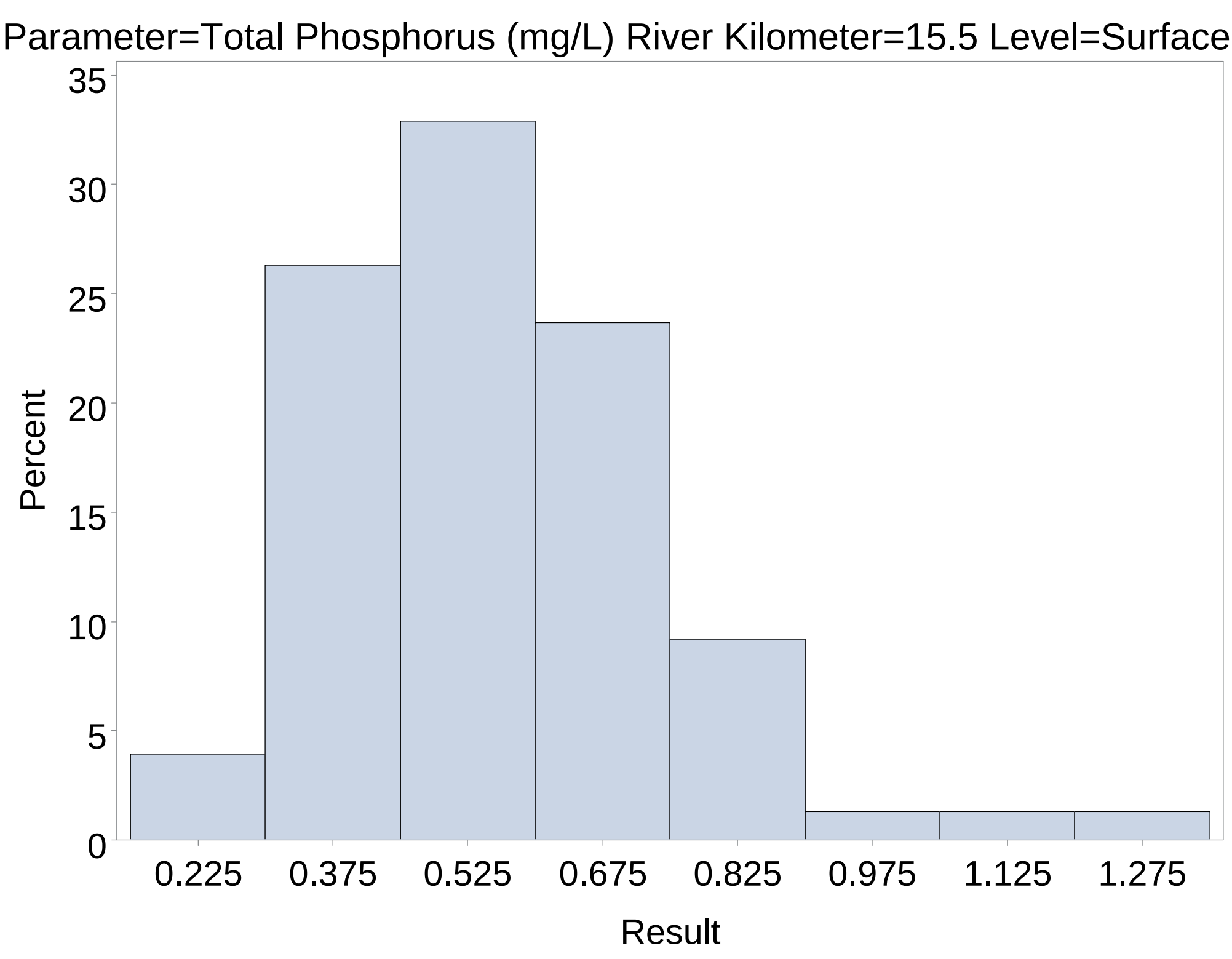
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.72655	**Pr > |t|**	<.0001
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.300
99%	1.300
95%	0.850
90%	0.800
75% Q3	0.650
50% Median	0.560
25% Q1	0.415
10%	0.340
5%	0.317
1%	0.244
0% Min	0.244

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.244	95831	0.830	95850
0.284	95829	0.850	95802
0.285	95830	0.907	95835
0.317	95828	1.150	95837
0.330	95781	1.300	95804


Parameter=Total Phosphorus (mg/L) River Kilometer=15.5 Level=Surface
35
30
25
20
15
10
5
0
Percent
0.225
0.375
0.525
0.675
0.825
0.975
1.125
1.275
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	75	**Sum Weights**	75
Mean	0.70389333	**Sum Observations**	52.792
Std Deviation	0.13841004	**Variance**	0.01915734
Skewness	0.81962579	**Kurtosis**	1.69840251
Uncorrected SS	38.57758	**Corrected SS**	1.41764315
Coeff Variation	19.6634967	**Std Error Mean**	0.01598222

Basic Statistical Measures			
Location		**Variability**	
Mean	0.703893	**Std Deviation**	0.13841
Median	0.690000	**Variance**	0.01916
Mode	0.650000	**Range**	0.80900
		Interquartile Range	0.19000

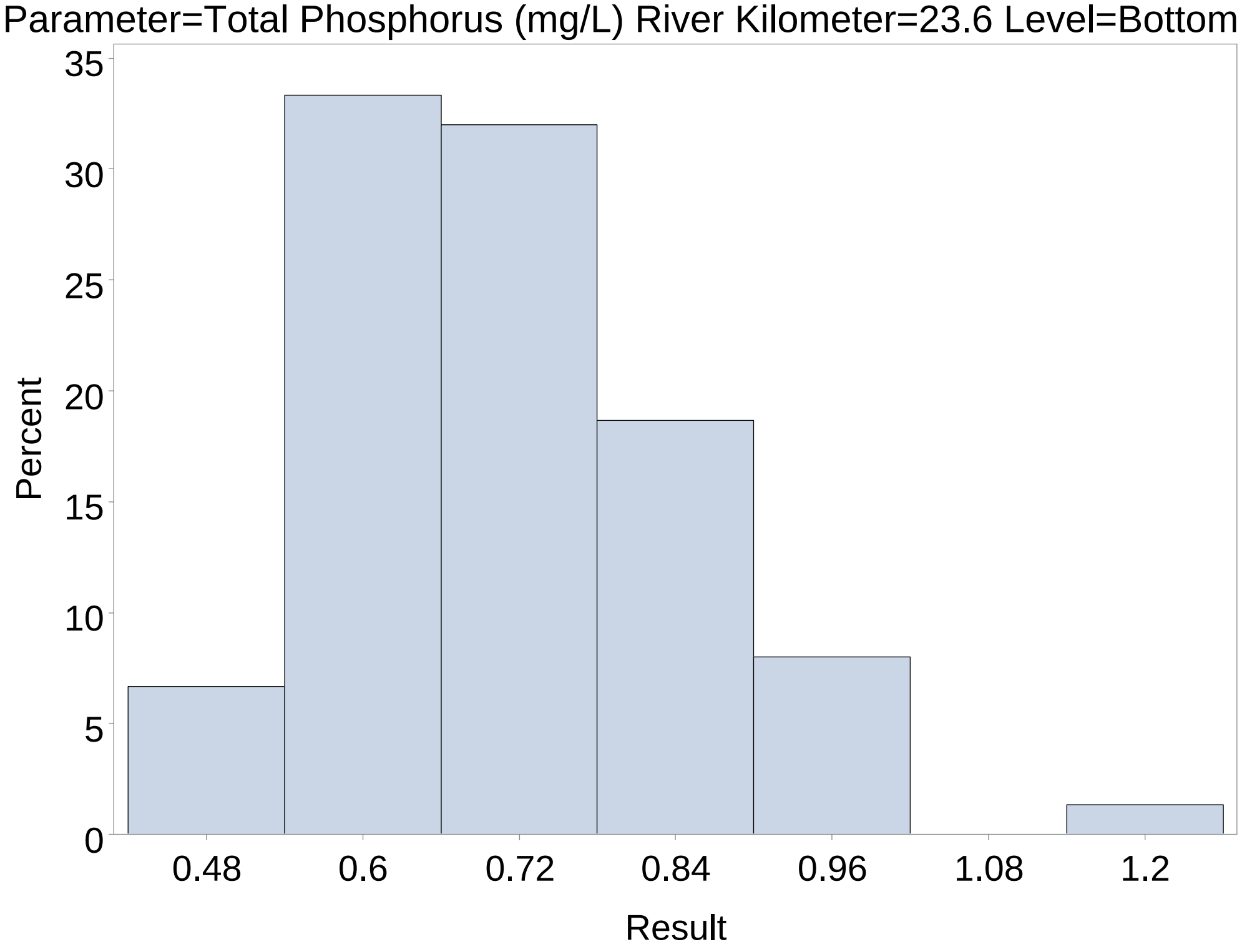
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.04229	**Pr > |t|**	<.0001
Sign	**M**	37.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1425	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.230
99%	1.230
95%	0.937
90%	0.880
75% Q3	0.790
50% Median	0.690
25% Q1	0.600
10%	0.550
5%	0.510
1%	0.421
0% Min	0.421

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.421	95904	0.930	95877
0.473	95906	0.937	95911
0.476	95905	0.940	95862
0.510	95919	1.000	95872
0.530	95888	1.230	95912


Parameter=Total Phosphorus (mg/L) River Kilometer=23.6 Level=Bottom
35
30
25
20
15
10
5
0
Percent
0.48
0.6
0.72
0.84
0.96
1.08
1.2
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	76	**Sum Weights**	76
Mean	0.69411842	**Sum Observations**	52.753
Std Deviation	0.12923116	**Variance**	0.01670069
Skewness	0.46022274	**Kurtosis**	0.00049777
Uncorrected SS	37.869381	**Corrected SS**	1.25255193
Coeff Variation	18.6180276	**Std Error Mean**	0.01482383

Basic Statistical Measures			
Location		**Variability**	
Mean	0.694118	**Std Deviation**	0.12923
Median	0.680000	**Variance**	0.01670
Mode	0.640000	**Range**	0.65200
		Interquartile Range	0.19000

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

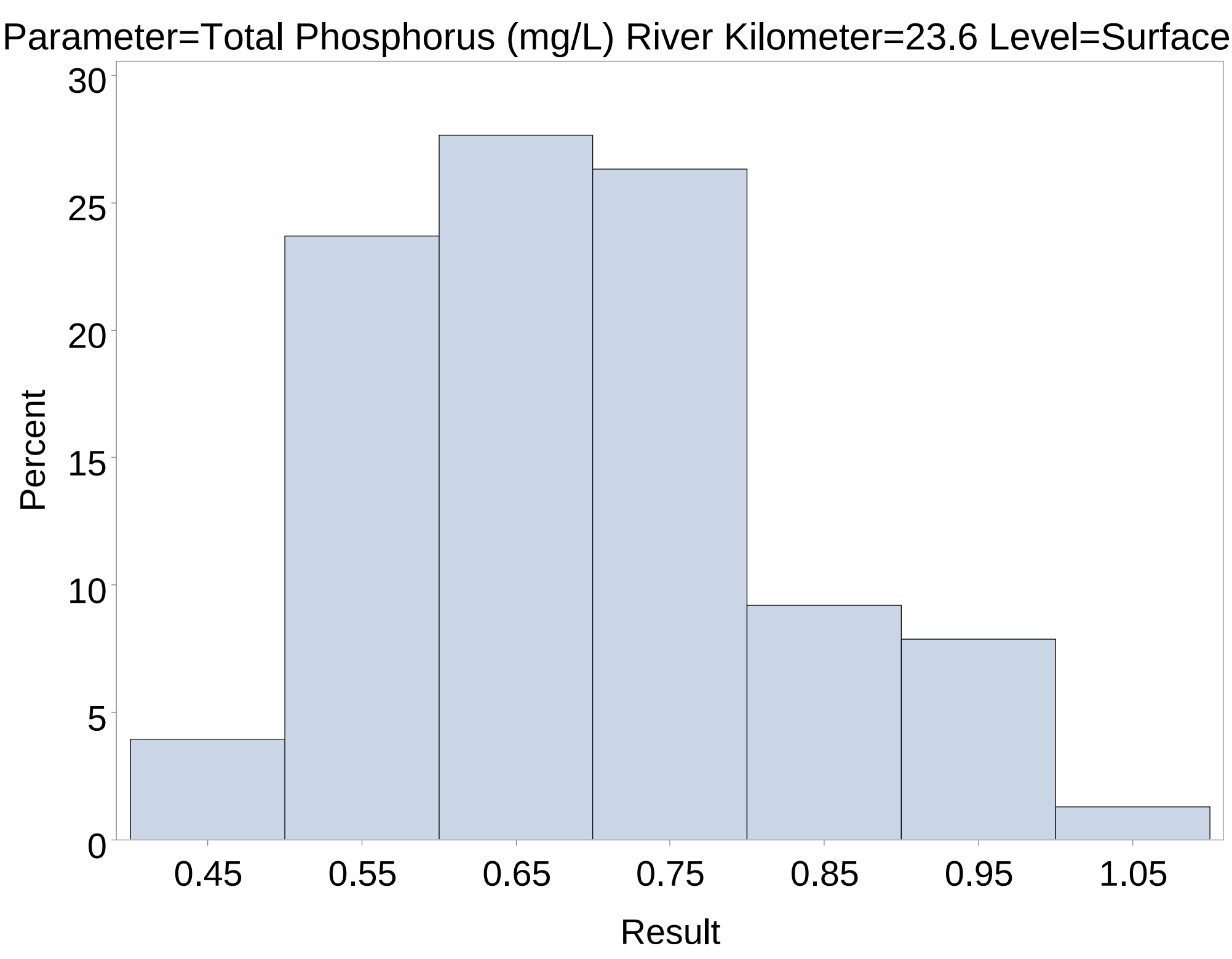
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	46.8245	**Pr > |t|**	<.0001
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.070
99%	1.070
95%	0.932
90%	0.890
75% Q3	0.780
50% Median	0.680
25% Q1	0.590
10%	0.540
5%	0.510
1%	0.418
0% Min	0.418

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.418	95980	0.930	95941
0.480	96001	0.932	95986
0.480	95964	0.939	95987
0.510	95995	0.960	95948
0.514	95981	1.070	95988


Parameter=Total Phosphorus (mg/L) River Kilometer=23.6 Level=Surface
30
25
20
15
10
5
0
Percent
0.45
0.55
0.65
0.75
0.85
0.95
1.05
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	75	**Sum Weights**	75
Mean	0.75997333	**Sum Observations**	56.998
Std Deviation	0.14907625	**Variance**	0.02222373
Skewness	0.21418343	**Kurtosis**	0.03712892
Uncorrected SS	44.961516	**Corrected SS**	1.64455595
Coeff Variation	19.6159846	**Std Error Mean**	0.01721384

Basic Statistical Measures			
Location		**Variability**	
Mean	0.759973	**Std Deviation**	0.14908
Median	0.750000	**Variance**	0.02222
Mode	0.880000	**Range**	0.74700
		Interquartile Range	0.24000

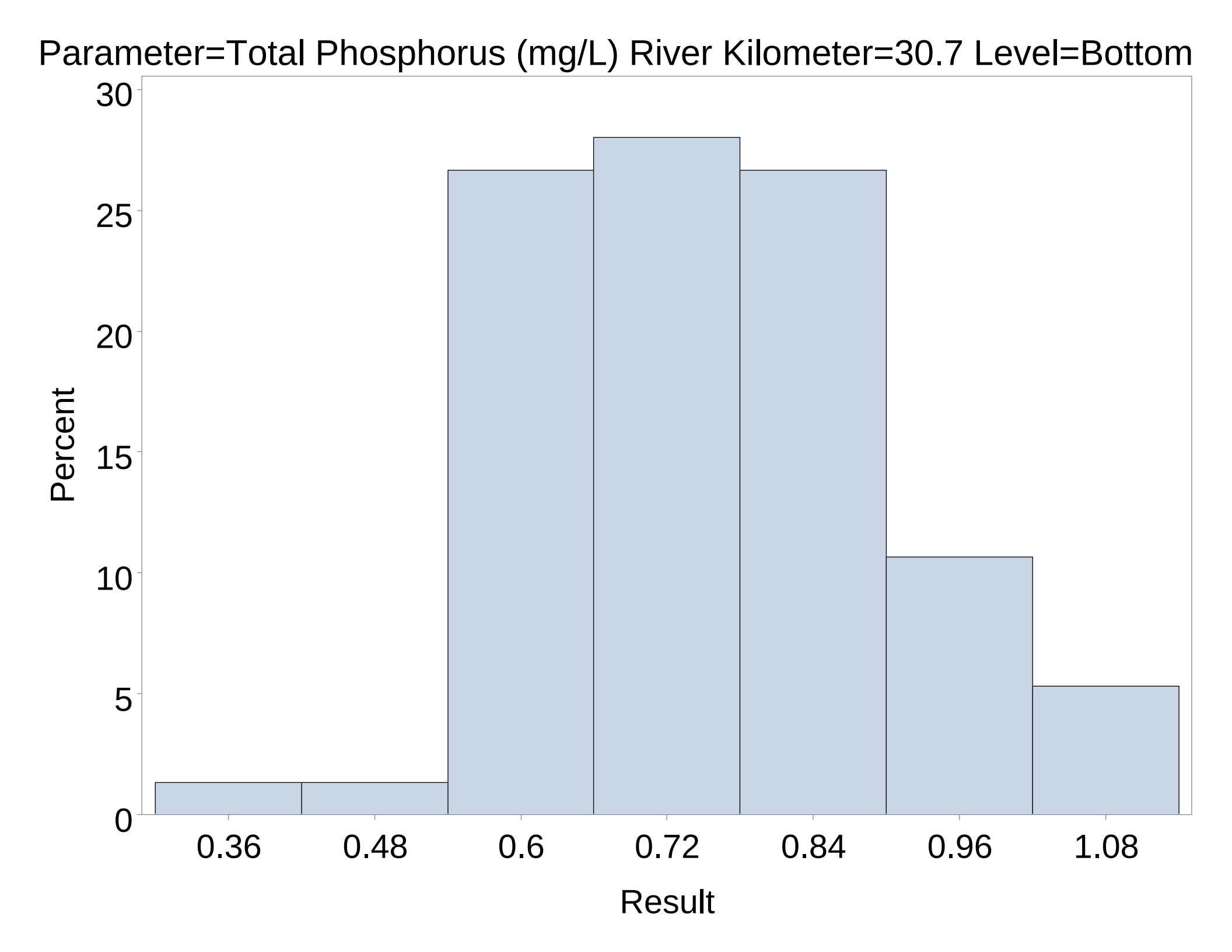
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.14896	**Pr > |t|**	<.0001
Sign	**M**	37.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1425	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.100
99%	1.100
95%	1.050
90%	0.920
75% Q3	0.880
50% Median	0.750
25% Q1	0.640
10%	0.580
5%	0.549
1%	0.353
0% Min	0.353

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.353	96055	1.00	96029
0.530	96040	1.05	96062
0.540	96007	1.10	96023
0.549	96056	1.10	96044
0.560	96070	1.10	96063


Parameter=Total Phosphorus (mg/L) River Kilometer=30.7 Level=Bottom
30
25
20
15
10
5
0
Percent
0.36
0.48
0.6
0.72
0.84
0.96
1.08
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	170	**Sum Weights**	170
Mean	0.77405882	**Sum Observations**	131.59
Std Deviation	0.17242588	**Variance**	0.02973068
Skewness	0.87848542	**Kurtosis**	1.89805788
Uncorrected SS	106.882886	**Corrected SS**	5.02448541
Coeff Variation	22.2755521	**Std Error Mean**	0.01322446

Basic Statistical Measures			
Location		**Variability**	
Mean	0.774059	**Std Deviation**	0.17243
Median	0.752500	**Variance**	0.02973
Mode	0.750000	**Range**	1.12200
		Interquartile Range	0.20100

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**	58.53235	**Pr > |t|**	<.0001
Sign	**M**	85	**Pr >= |M|**	<.0001
Signed Rank	**S**	7267.5	**Pr >= |S|**	<.0001

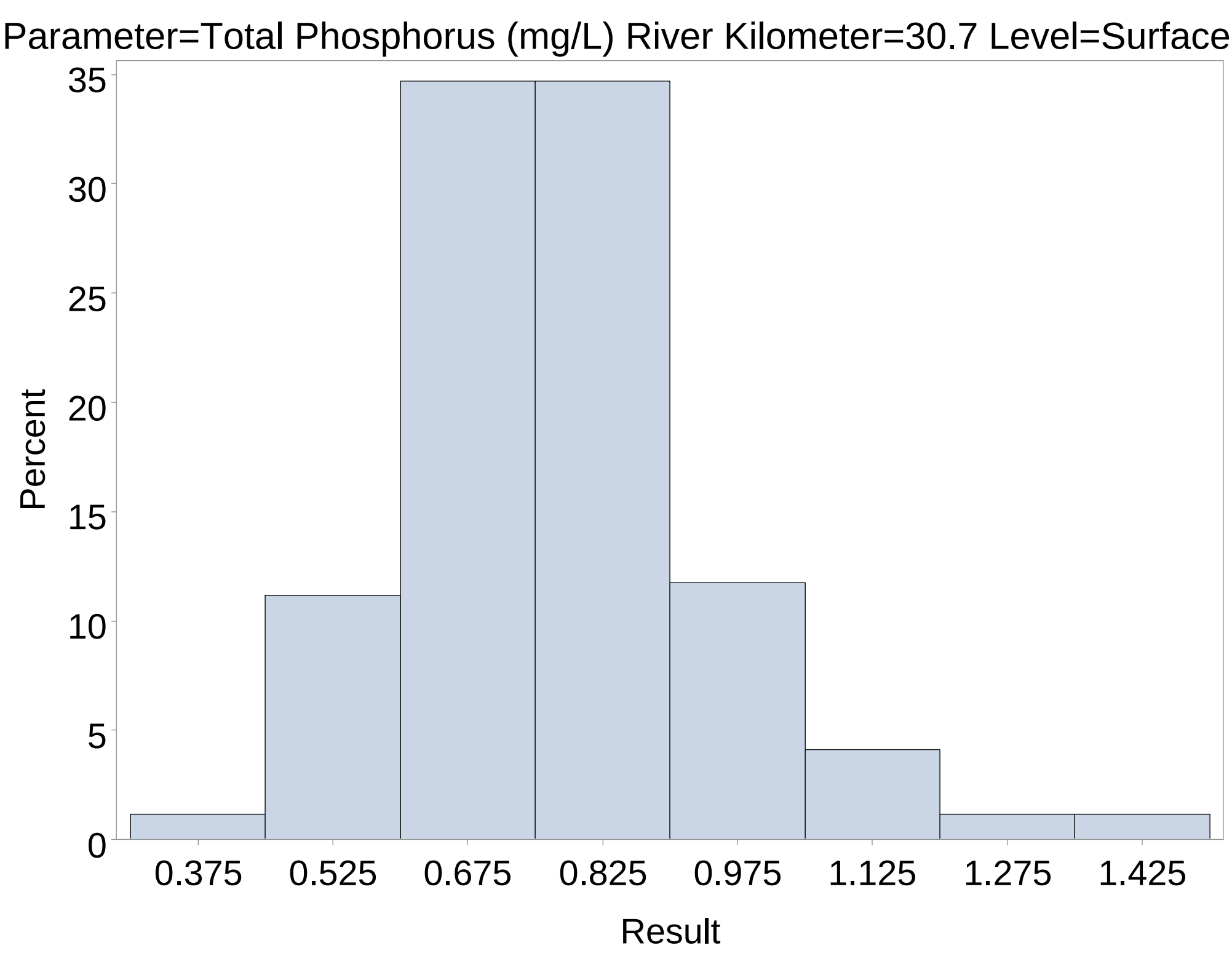
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.4700
99%	1.3600
95%	1.0700
90%	0.9935
75% Q3	0.8650
50% Median	0.7525
25% Q1	0.6640
10%	0.5700
5%	0.5200
1%	0.4360
0% Min	0.3480

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Phosphorus (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.348	96131	1.19	96158
0.436	96188	1.21	96228
0.485	96202	1.27	96233
0.491	96213	1.36	96229
0.498	96214	1.47	96230

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.58	100.00


Parameter=Total Phosphorus (mg/L) River Kilometer=30.7 Level=Surface
35
30
25
20
15
10
5
0
Percent
0.375
0.525
0.675
0.825
0.975
1.125
1.275
1.425
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	167	**Sum Weights**	167
Mean	17.6757485	**Sum Observations**	2951.85
Std Deviation	17.7446655	**Variance**	314.873155
Skewness	1.88487883	**Kurtosis**	4.60878065
Uncorrected SS	104445.102	**Corrected SS**	52268.9437
Coeff Variation	100.389896	**Std Error Mean**	1.37312344

Basic Statistical Measures			
Location		**Variability**	
Mean	17.67575	**Std Deviation**	17.74467
Median	10.60000	**Variance**	314.87315
Mode	11.00000	**Range**	109.43000
		Interquartile Range	19.80000

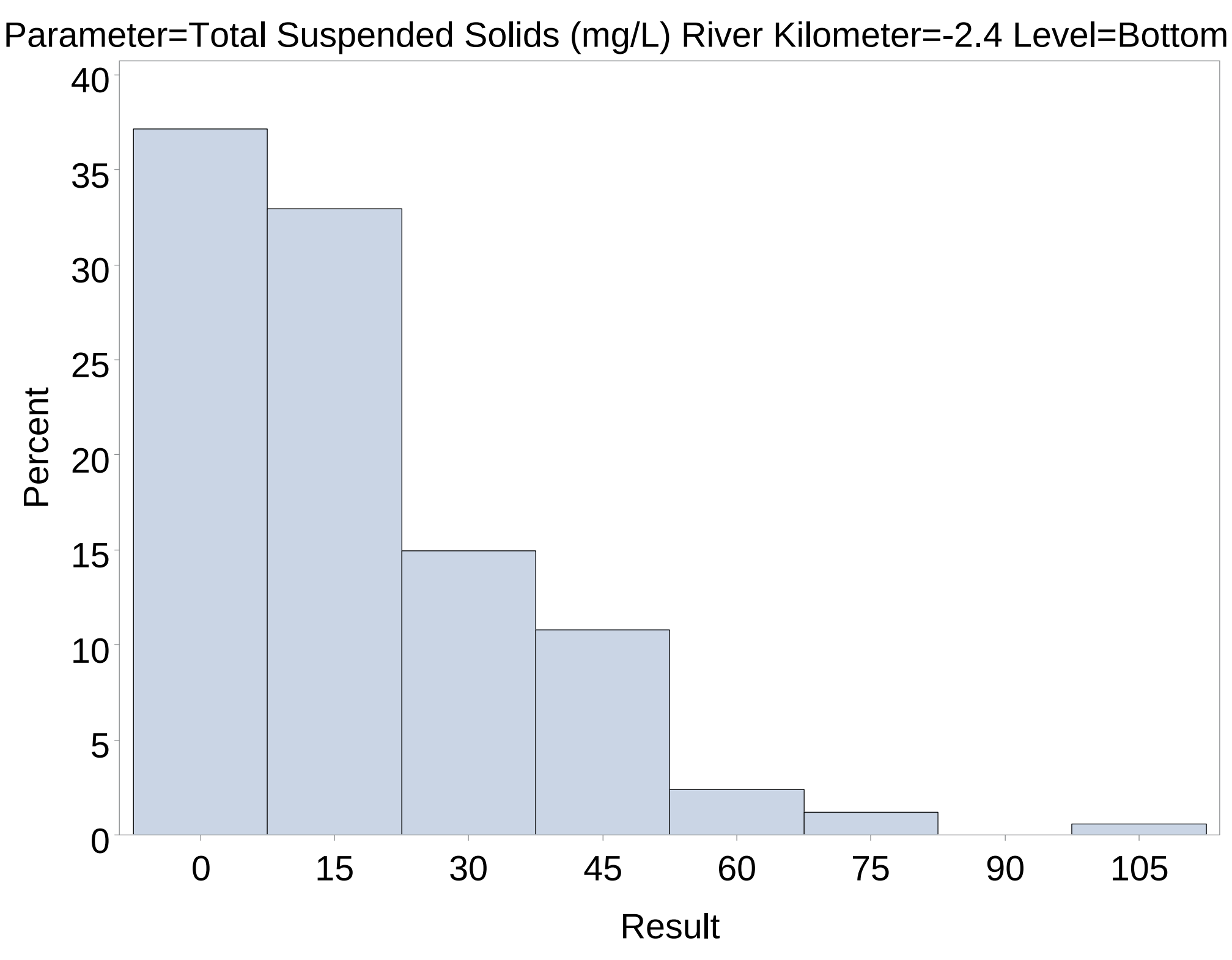
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.87266	**Pr > |t|**	<.0001
Sign	**M**	83.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7014	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	110.00
99%	78.70
95%	52.00
90%	44.00
75% Q3	25.00
50% Median	10.60
25% Q1	5.20
10%	3.40
5%	2.75
1%	1.30
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	96329	58.0	96257
1.30	96413	61.8	96331
1.33	96401	74.2	96408
1.33	96381	78.7	96386
1.40	96402	110.0	96258


Parameter=Total Suspended Solids (mg/L) River Kilometer=-2.4 Level=Bottom
Percent
40
35
30
25
20
15
10
5
0
0
15
30
45
60
75
90
105
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	167	**Sum Weights**	167
Mean	13.1907186	**Sum Observations**	2202.85
Std Deviation	14.0641742	**Variance**	197.800996
Skewness	2.29033239	**Kurtosis**	7.79020229
Uncorrected SS	61892.1397	**Corrected SS**	32834.9653
Coeff Variation	106.621744	**Std Error Mean**	1.08831847

Basic Statistical Measures			
Location		**Variability**	
Mean	13.19072	**Std Deviation**	14.06417
Median	7.20000	**Variance**	197.80100
Mode	4.60000	**Range**	97.43000
		Interquartile Range	13.40000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

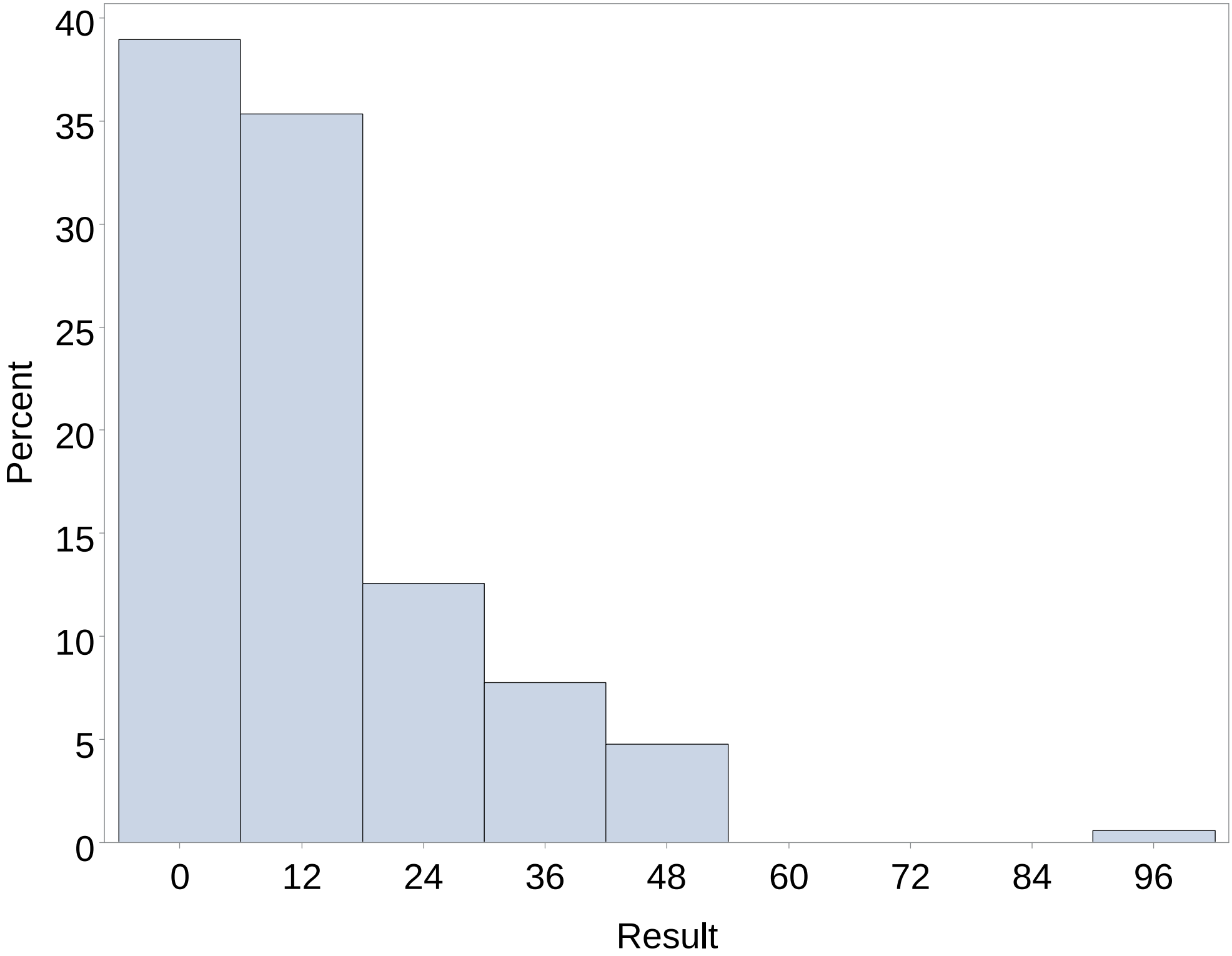
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.12027	**Pr > |t|**	<.0001
Sign	**M**	83.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7014	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	98.00
99%	51.00
95%	44.00
90%	32.00
75% Q3	18.00
50% Median	7.20
25% Q1	4.60
10%	2.80
5%	1.40
1%	1.00
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	96556	50	96423
1.00	96580	50	96448
1.00	96422	50	96449
1.00	96417	51	96447
1.20	96532	98	96425


40
35
30
25
20
15
10
5
0
Percent
0
12
24
36
48
60
72
84
96
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	166	**Sum Weights**	166
Mean	23.0140964	**Sum Observations**	3820.34
Std Deviation	22.2994843	**Variance**	497.267001
Skewness	2.74317737	**Kurtosis**	12.3200815
Uncorrected SS	169970.728	**Corrected SS**	82049.0552
Coeff Variation	96.8948941	**Std Error Mean**	1.73077565

Basic Statistical Measures			
Location		**Variability**	
Mean	23.01410	**Std Deviation**	22.29948
Median	16.85000	**Variance**	497.26700
Mode	17.00000	**Range**	170.43000
		Interquartile Range	25.00000

Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.29698	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

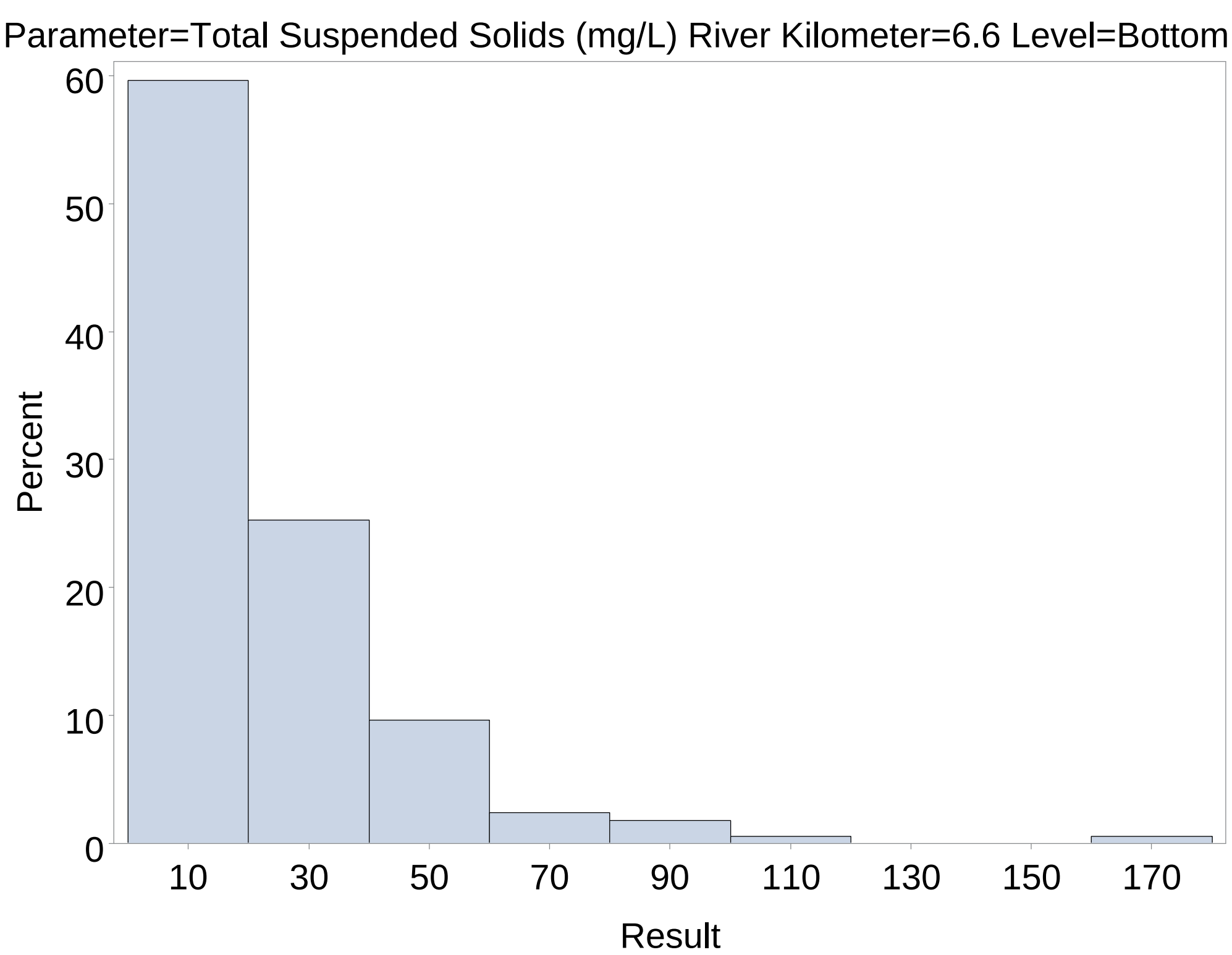
Quantiles (Definition 5)	
Level	**Quantile**
100% Max	171.00
99%	100.00
95%	60.00
90%	47.00
75% Q3	33.00
50% Median	16.85
25% Q1	8.00
10%	4.67
5%	3.50
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	96673	80	96625
0.57	96663	92	96669
2.50	96721	94	96592
2.60	96666	100	96627
2.67	96747	171	96740

Missing Values			
		Percent Of	
Missing Value	Count	All Obs	Missing Obs
.	1	0.60	100.00


Parameter=Total Suspended Solids (mg/L) River Kilometer=6.6 Level=Bottom
Percent
60
50
40
30
20
10
0
10
30
50
70
90
110
130
150
170
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	167	**Sum Weights**	167
Mean	13.7998204	**Sum Observations**	2304.57
Std Deviation	13.8236269	**Variance**	191.092661
Skewness	2.06061027	**Kurtosis**	4.74658839
Uncorrected SS	63524.0337	**Corrected SS**	31721.3817
Coeff Variation	100.172513	**Std Error Mean**	1.06970437

Basic Statistical Measures			
Location		**Variability**	
Mean	13.79982	**Std Deviation**	13.82363
Median	8.60000	**Variance**	191.09266
Mode	4.00000	**Range**	73.43000
		Interquartile Range	13.00000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

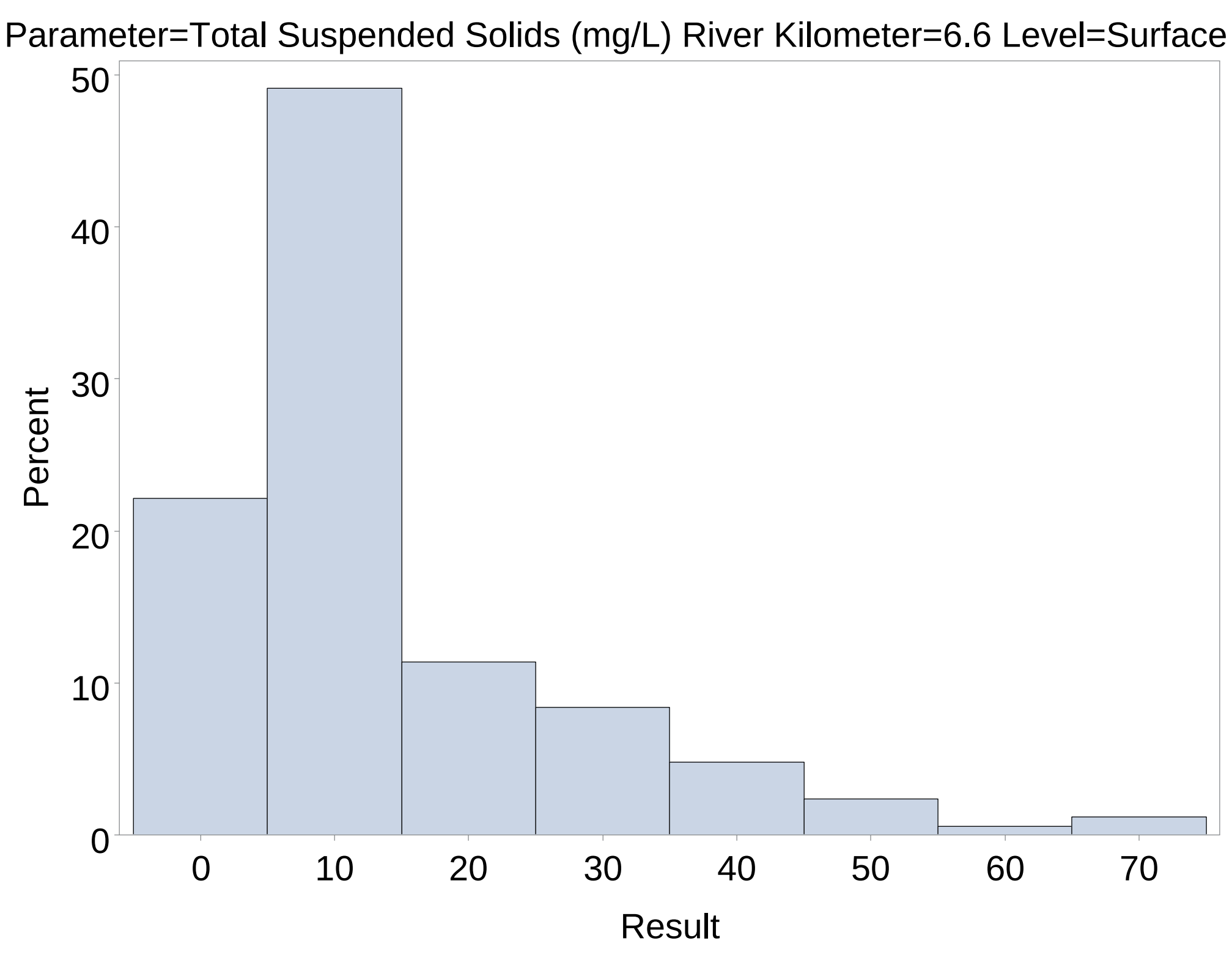
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.90059	**Pr > |t|**	<.0001
Sign	**M**	83.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7014	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	74.00
99%	74.00
95%	43.00
90%	32.00
75% Q3	18.00
50% Median	8.60
25% Q1	5.00
10%	3.00
5%	2.20
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	96893	54	96783
0.57	96890	54	96794
1.67	96902	64	96758
1.75	96857	74	96759
1.80	96876	74	96792


Parameter=Total Suspended Solids (mg/L) River Kilometer=6.6 Level=Surface
Percent
50
40
30
20
10
0
0
10
20
30
40
50
60
70
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	167	**Sum Weights**	167
Mean	13.6920958	**Sum Observations**	2286.58
Std Deviation	10.6535303	**Variance**	113.497707
Skewness	1.5722603	**Kurtosis**	3.1137466
Uncorrected SS	50148.6918	**Corrected SS**	18840.6194
Coeff Variation	77.8078857	**Std Error Mean**	0.82439492

Basic Statistical Measures			
Location		**Variability**	
Mean	13.69210	**Std Deviation**	10.65353
Median	11.00000	**Variance**	113.49771
Mode	8.00000	**Range**	56.00000
		Interquartile Range	12.70000

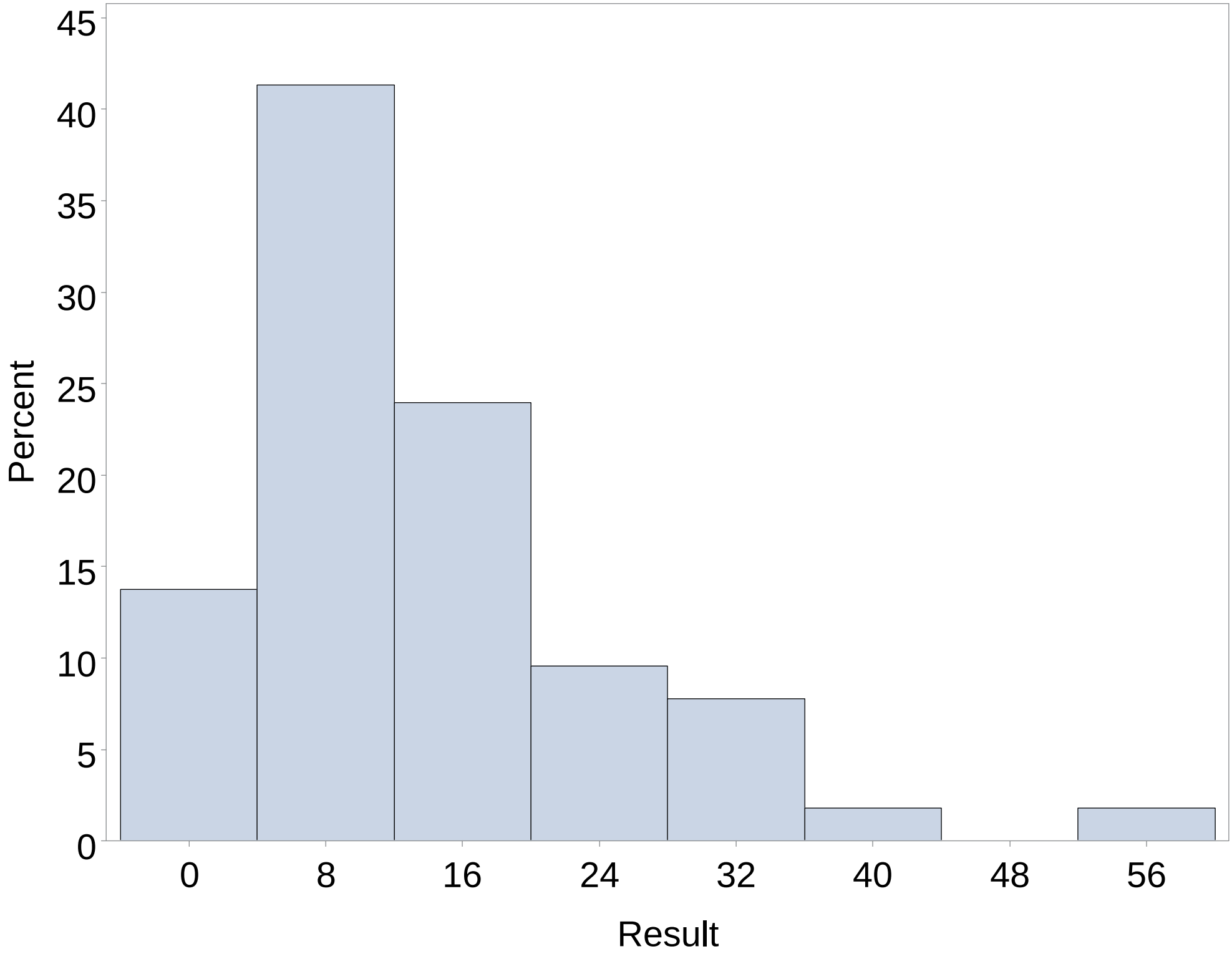
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.60866	**Pr > |t|**	<.0001
Sign	**M**	83.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7014	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	57.00
99%	56.00
95%	31.40
90%	28.80
75% Q3	18.70
50% Median	11.00
25% Q1	6.00
10%	3.60
5%	2.50
1%	1.25
0% Min	1.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	96955	39	96958
1.25	97057	43	96962
1.67	97068	54	96961
1.75	97030	56	96960
2.00	96983	57	96943


Percent
45
40
35
30
25
20
15
10
5
0
0
8
16
24
32
40
48
56
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	167	**Sum Weights**	167
Mean	9.25814371	**Sum Observations**	1546.11
Std Deviation	10.1721512	**Variance**	103.47266
Skewness	5.114513	**Kurtosis**	39.1451991
Uncorrected SS	31490.5701	**Corrected SS**	17176.4615
Coeff Variation	109.87247	**Std Error Mean**	0.78714469

Basic Statistical Measures			
Location		**Variability**	
Mean	9.258144	**Std Deviation**	10.17215
Median	6.600000	**Variance**	103.47266
Mode	2.600000	**Range**	99.43000
		Interquartile Range	6.30000

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

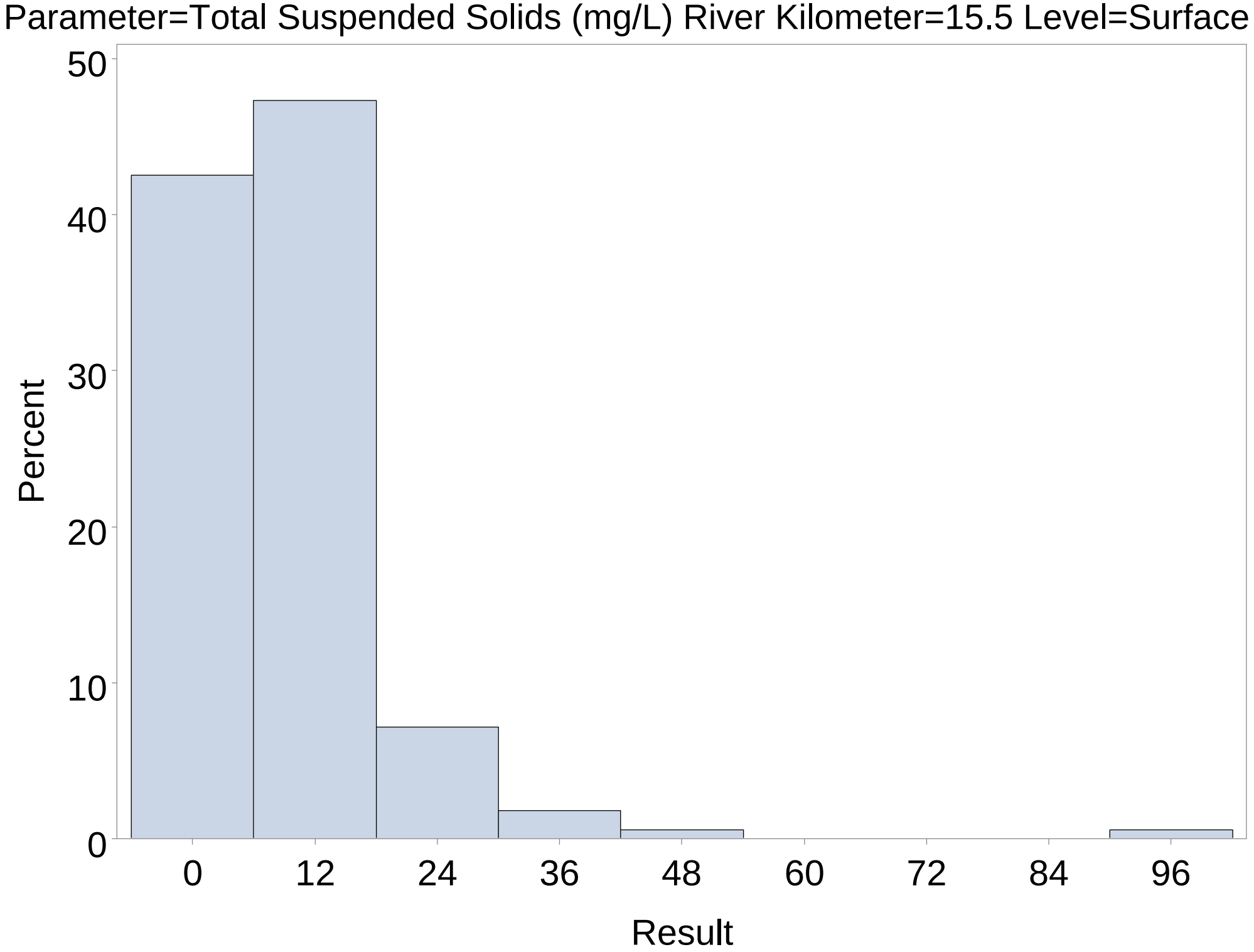
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.76168	**Pr > |t|**	<.0001
Sign	**M**	83.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7014	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	100.00
99%	48.00
95%	27.00
90%	18.00
75% Q3	10.50
50% Median	6.60
25% Q1	4.20
10%	2.60
5%	1.25
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	97232	32	97130
0.57	97224	33	97117
0.60	97233	41	97125
0.80	97139	48	97128
1.00	97197	100	97112


Parameter=Total Suspended Solids (mg/L) River Kilometer=15.5 Level=Surface
Percent
50
40
30
20
10
0
0
12
24
36
48
60
72
84
96
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	166	**Sum Weights**	166
Mean	7.76	**Sum Observations**	1288.16
Std Deviation	5.9603259	**Variance**	35.5254848
Skewness	1.94603601	**Kurtosis**	4.62473695
Uncorrected SS	15857.8266	**Corrected SS**	5861.705
Coeff Variation	76.8083235	**Std Error Mean**	0.46261101

Basic Statistical Measures			
Location		**Variability**	
Mean	7.760000	**Std Deviation**	5.96033
Median	6.000000	**Variance**	35.52548
Mode	4.000000	**Range**	34.43000
		Interquartile Range	6.00000

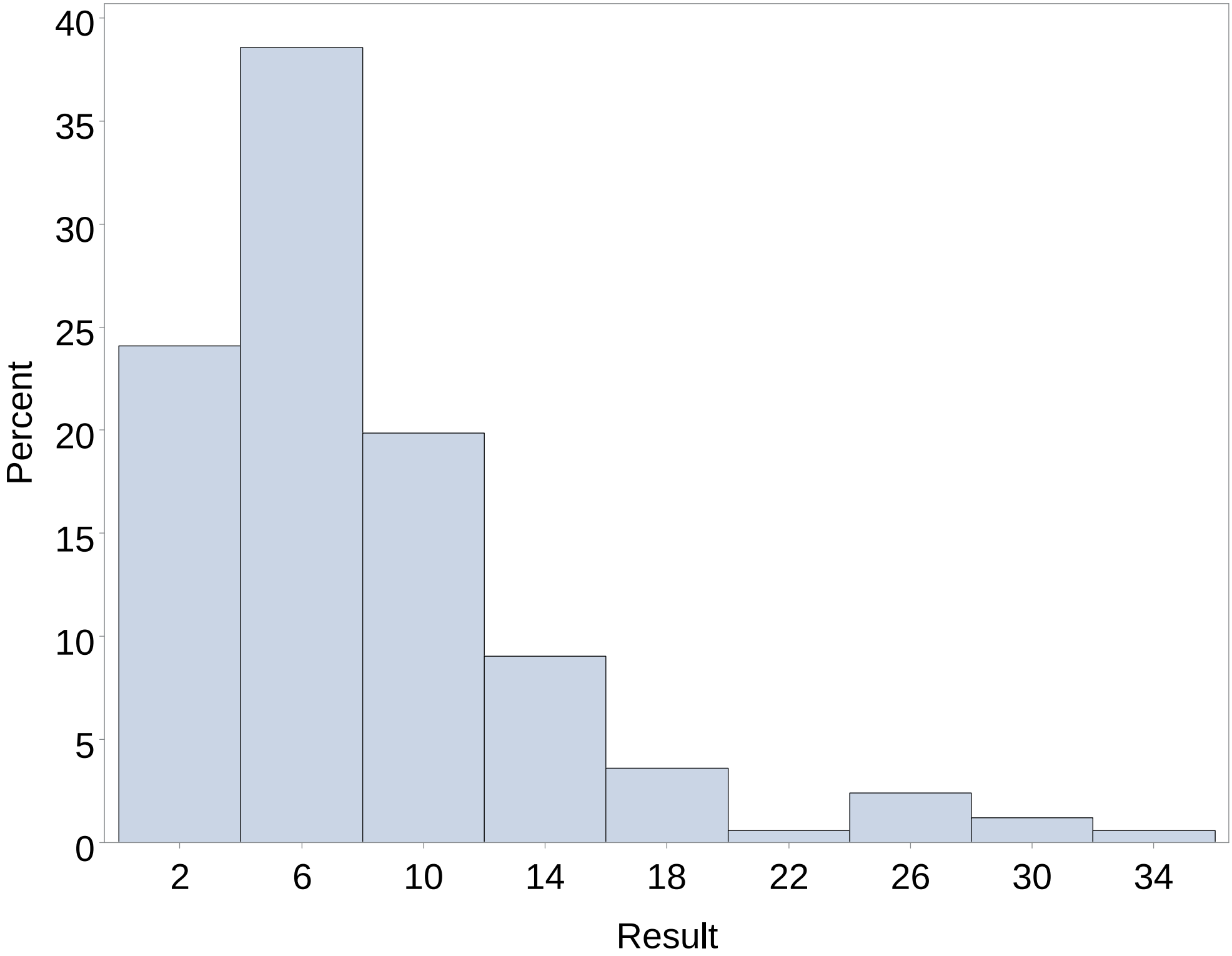
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.77435	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	35.00
99%	30.00
95%	19.40
90%	14.50
75% Q3	10.00
50% Median	6.00
25% Q1	4.00
10%	2.40
5%	1.80
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	97405	26	97251
0.57	97398	26	97407
0.80	97305	29	97296
1.20	97309	30	97295
1.20	97304	35	97294


40
35
30
25
20
15
10
5
0
Percent
2
6
10
14
18
22
26
30
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	167	**Sum Weights**	167
Mean	5.47064072	**Sum Observations**	913.597
Std Deviation	4.49415487	**Variance**	20.197428
Skewness	2.53913096	**Kurtosis**	9.01135196
Uncorrected SS	8350.73399	**Corrected SS**	3352.77304
Coeff Variation	82.1504298	**Std Error Mean**	0.34776814

Basic Statistical Measures			
Location		**Variability**	
Mean	5.470641	**Std Deviation**	4.49415
Median	4.800000	**Variance**	20.19743
Mode	5.000000	**Range**	28.43000
		Interquartile Range	4.40000

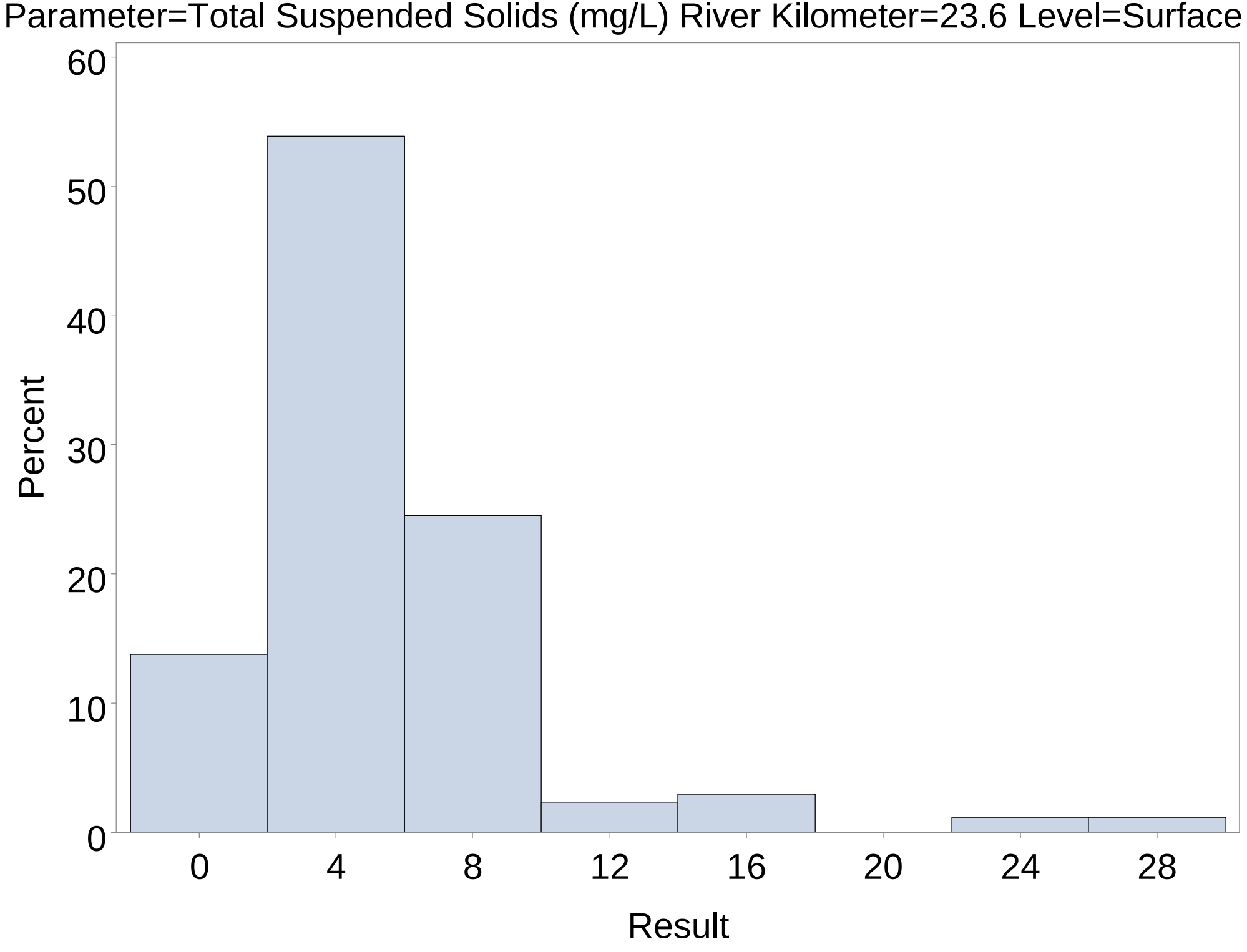
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.73071	**Pr > |t|**	<.0001
Sign	**M**	83.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7014	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.00
99%	27.00
95%	14.00
90%	9.00
75% Q3	7.00
50% Median	4.80
25% Q1	2.60
10%	1.33
5%	0.80
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	97566	17	97573
0.57	97564	23	97461
0.57	97557	23	97462
0.57	97520	27	97417
0.57	97481	29	97463


Parameter=Total Suspended Solids (mg/L) River Kilometer=23.6 Level=Surface
Percent
60
50
40
30
20
10
0
0
4
8
12
16
20
24
28
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	165	**Sum Weights**	165
Mean	6.39854545	**Sum Observations**	1055.76
Std Deviation	5.08781127	**Variance**	25.8858235
Skewness	2.70863952	**Kurtosis**	11.4993738
Uncorrected SS	11000.6034	**Corrected SS**	4245.27505
Coeff Variation	79.5151227	**Std Error Mean**	0.39608557

Basic Statistical Measures			
Location		**Variability**	
Mean	6.398545	**Std Deviation**	5.08781
Median	5.330000	**Variance**	25.88582
Mode	3.000000	**Range**	38.13000
		Interquartile Range	5.00000

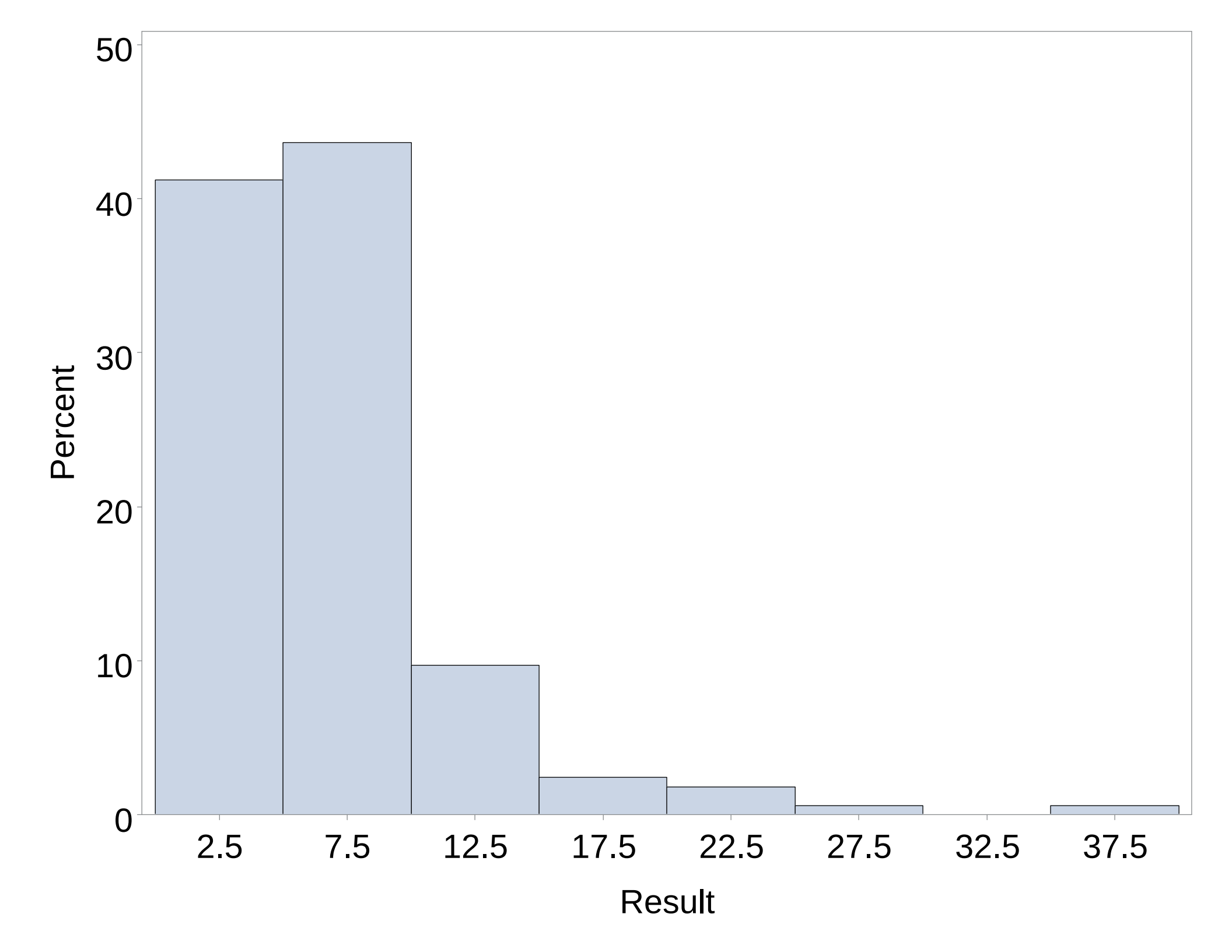
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.15445	**Pr > |t|**	<.0001
Sign	**M**	82.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6847.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	38.70
99%	26.00
95%	15.00
90%	11.00
75% Q3	8.00
50% Median	5.33
25% Q1	3.00
10%	2.00
5%	1.00
1%	0.60
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	97642	22.0	97604
0.60	97638	22.0	97740
0.80	97643	24.0	97585
1.00	97652	26.0	97584
1.00	97646	38.7	97739


50
40
30
20
10
0
Percent
2.5
7.5
12.5
17.5
22.5
27.5
32.5
37.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	166	**Sum Weights**	166
Mean	5.49620482	**Sum Observations**	912.37
Std Deviation	4.0826638	**Variance**	16.6681437
Skewness	2.596883	**Kurtosis**	10.5002001
Uncorrected SS	7764.8161	**Corrected SS**	2750.24371
Coeff Variation	74.2815076	**Std Error Mean**	0.31687617

Basic Statistical Measures			
Location		**Variability**	
Mean	5.496205	**Std Deviation**	4.08266
Median	4.600000	**Variance**	16.66814
Mode	5.000000	**Range**	29.43000
		Interquartile Range	3.55000

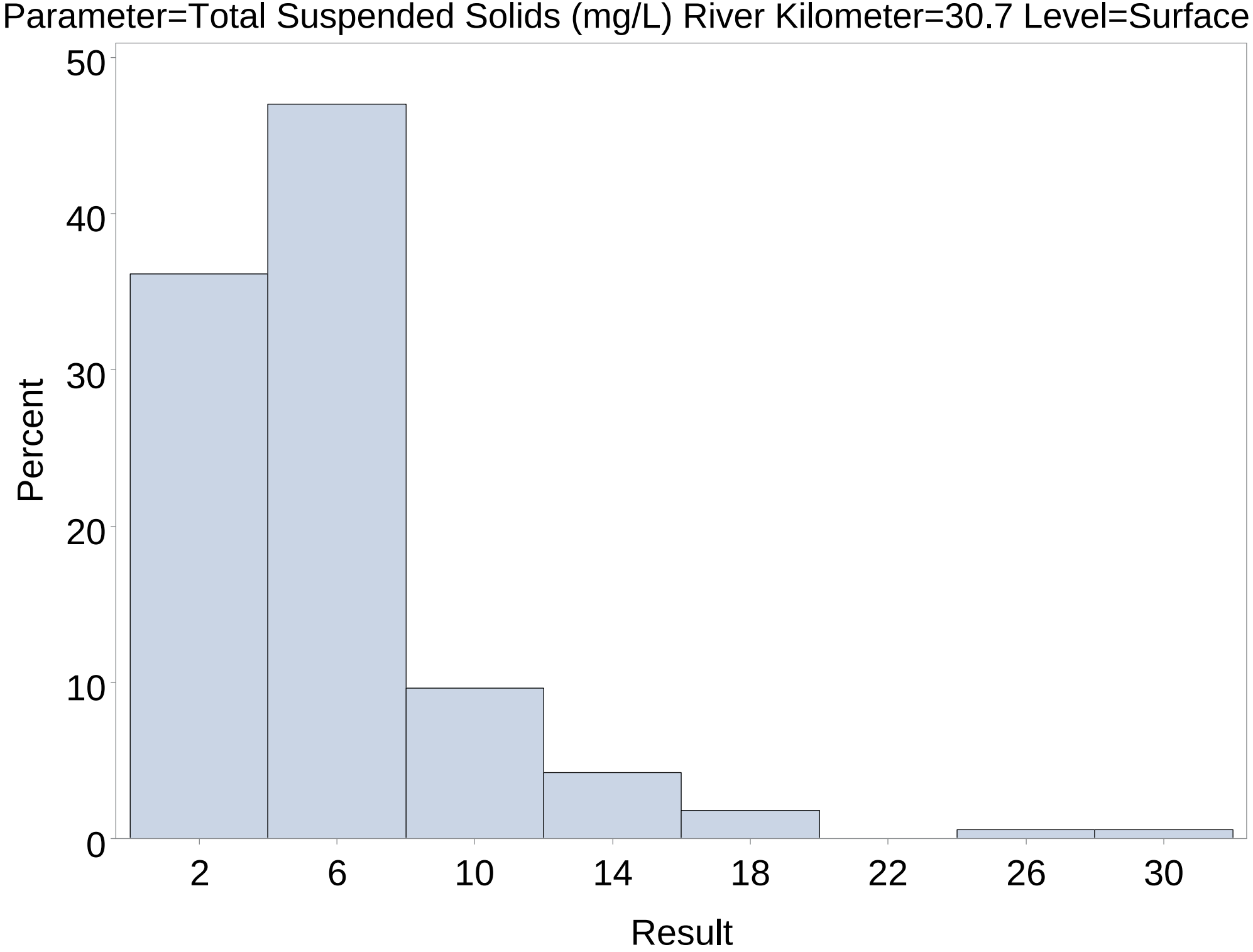
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.34496	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.00
99%	25.00
95%	13.00
90%	9.80
75% Q3	6.75
50% Median	4.60
25% Q1	3.20
10%	2.00
5%	1.00
1%	0.57
0% Min	0.57

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Total Suspended Solids (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.57	97808	16.0	97769
0.57	97804	16.5	97906
0.60	97818	18.0	97794
0.60	97805	25.0	97750
0.60	97803	30.0	97749


Parameter=Total Suspended Solids (mg/L) River Kilometer=30.7 Level=Surface
Percent
50
40
30
20
10
0
2
6
10
14
18
22
26
30
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=-2.4 Level=Bottom

Moments			
N	76	**Sum Weights**	76
Mean	3.75868421	**Sum Observations**	285.66
Std Deviation	9.56763981	**Variance**	91.5397316
Skewness	8.07513526	**Kurtosis**	68.3450784
Uncorrected SS	7939.1856	**Corrected SS**	6865.47987
Coeff Variation	254.547583	**Std Error Mean**	1.09748355

Basic Statistical Measures			
Location		**Variability**	
Mean	3.758684	**Std Deviation**	9.56764
Median	1.985000	**Variance**	91.53973
Mode	1.000000	**Range**	83.87000
		Interquartile Range	2.80000

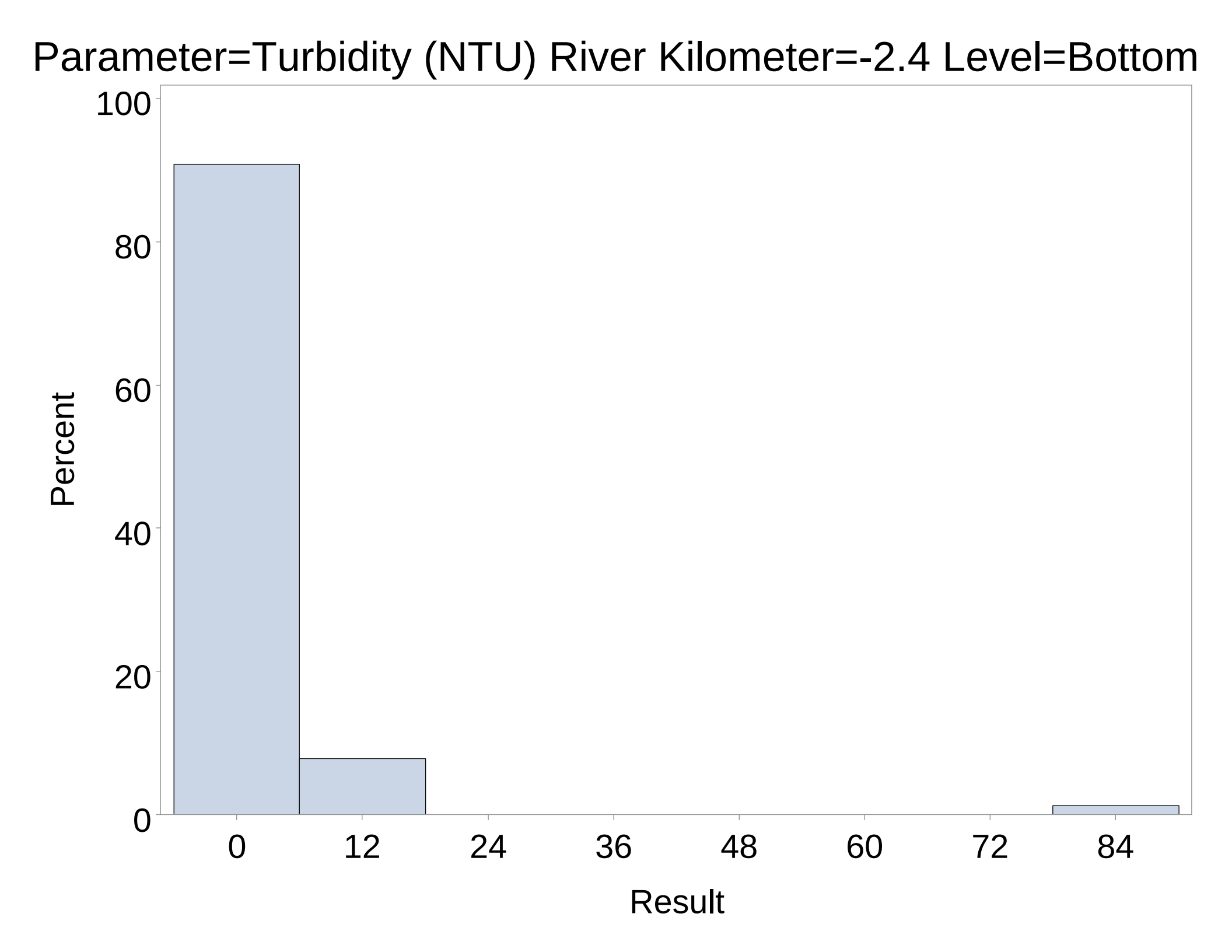
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	3.424821	**Pr > |t|**	0.0010
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	84.000
99%	84.000
95%	8.100
90%	5.600
75% Q3	3.900
50% Median	1.985
25% Q1	1.100
10%	0.760
5%	0.370
1%	0.130
0% Min	0.130

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	97947	7.6	97955
0.26	97948	8.1	97956
0.30	97949	8.5	97969
0.37	97943	10.3	97968
0.44	97946	84.0	97967


Parameter=Turbidity (NTU) River Kilometer=-2.4 Level=Bottom
100
80
60
40
20
0
Percent
0
12
24
36
48
60
72
84
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=-2.4 Level=Surface

Moments			
N	76	**Sum Weights**	76
Mean	2.88592105	**Sum Observations**	219.33
Std Deviation	7.64876847	**Variance**	58.5036591
Skewness	8.07335886	**Kurtosis**	68.2032429
Uncorrected SS	5020.7435	**Corrected SS**	4387.77444
Coeff Variation	265.037343	**Std Error Mean**	0.87737392

Basic Statistical Measures			
Location		**Variability**	
Mean	2.885921	**Std Deviation**	7.64877
Median	1.650000	**Variance**	58.50366
Mode	1.000000	**Range**	66.86000
		Interquartile Range	1.70000

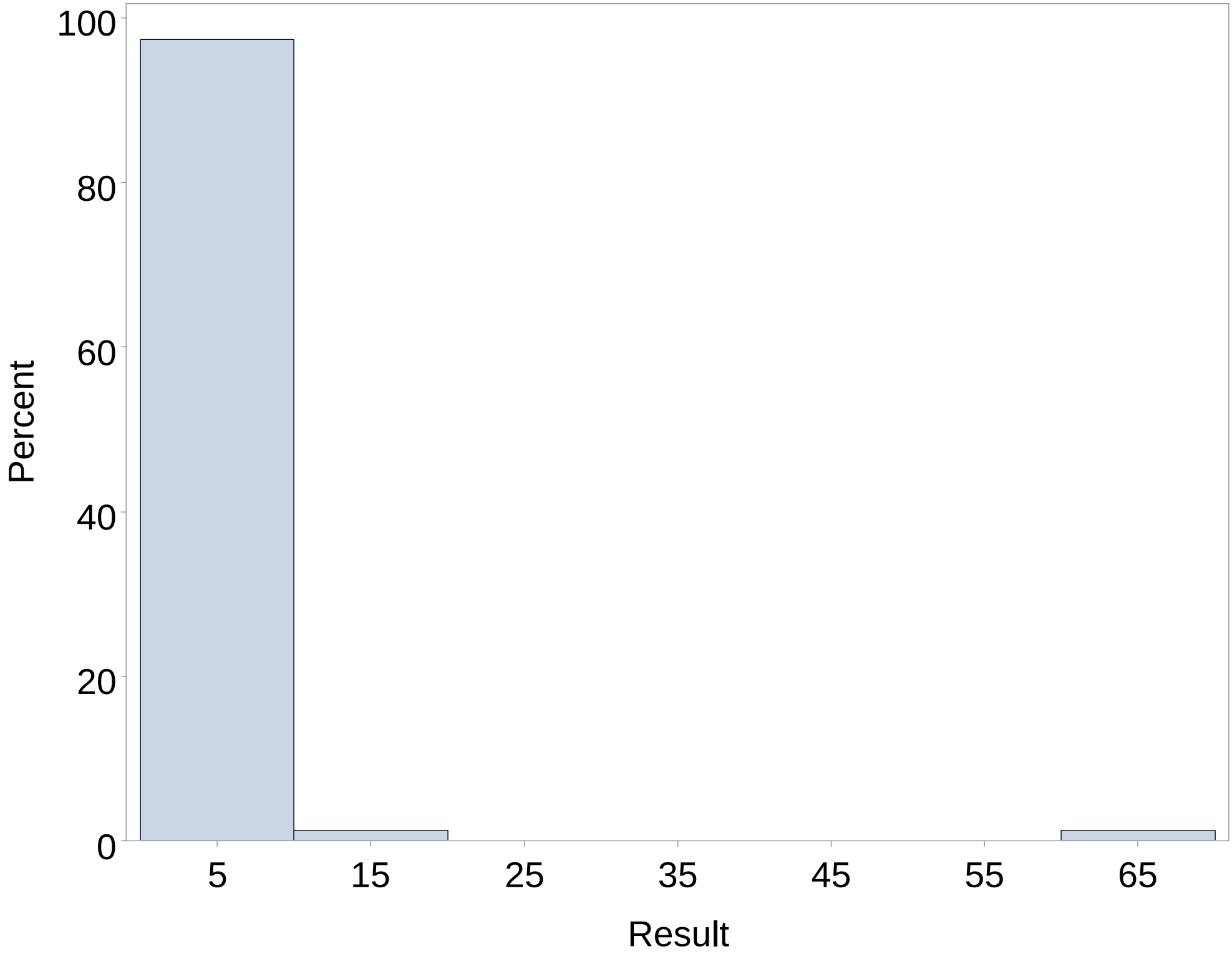
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	3.289272	**Pr > |t|**	0.0015
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	67.00
99%	67.00
95%	5.40
90%	4.30
75% Q3	2.70
50% Median	1.65
25% Q1	1.00
10%	0.50
5%	0.30
1%	0.14
0% Min	0.14

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.14	98023	5.1	98046
0.25	98025	5.4	98031
0.28	98024	8.8	98045
0.30	98019	10.0	98010
0.38	98018	67.0	98043


100
80
60
40
20
0
Percent
5
15
25
35
45
55
65
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=6.6 Level=Bottom

Moments			
N	77	**Sum Weights**	77
Mean	5.18428571	**Sum Observations**	399.19
Std Deviation	3.80844333	**Variance**	14.5042406
Skewness	0.91418126	**Kurtosis**	0.01124113
Uncorrected SS	3171.8373	**Corrected SS**	1102.32229
Coeff Variation	73.4612932	**Std Error Mean**	0.4340124

Basic Statistical Measures			
Location		**Variability**	
Mean	5.184286	**Std Deviation**	3.80844
Median	4.200000	**Variance**	14.50424
Mode	1.000000	**Range**	14.71000
		Interquartile Range	5.10000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

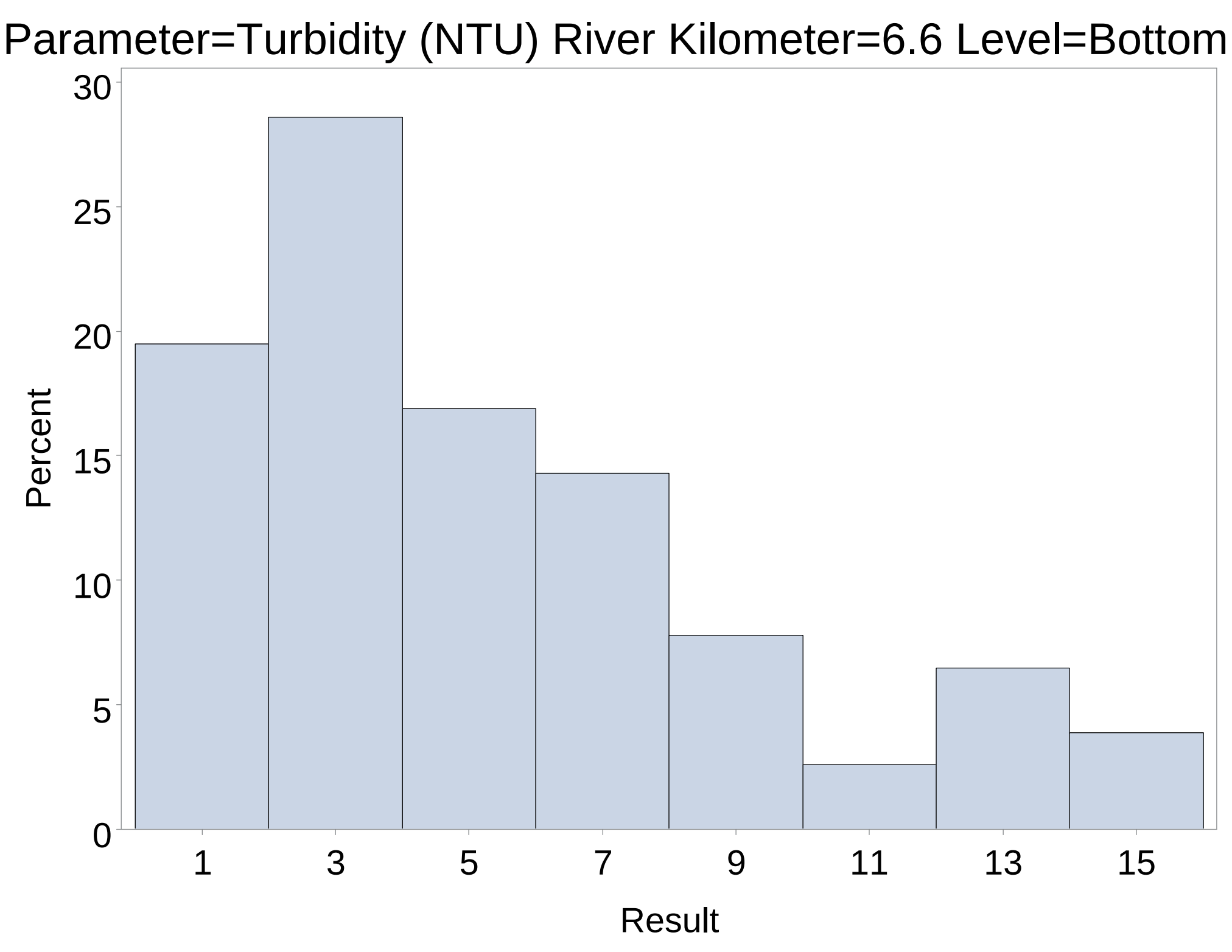
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.94502	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.00
99%	15.00
95%	12.50
90%	12.00
75% Q3	7.20
50% Median	4.20
25% Q1	2.10
10%	1.20
5%	1.00
1%	0.29
0% Min	0.29

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.29	98101	12.3	98142
0.36	98100	12.5	98133
0.44	98099	14.0	98083
1.00	98088	15.0	98109
1.00	98079	15.0	98110


Parameter=Turbidity (NTU) River Kilometer=6.6 Level=Bottom
Percent
30
25
20
15
10
5
0
1
3
5
7
9
11
13
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=6.6 Level=Surface

Moments			
N	77	**Sum Weights**	77
Mean	3.14792208	**Sum Observations**	242.39
Std Deviation	2.77164607	**Variance**	7.68202194
Skewness	2.7032097	**Kurtosis**	10.5654662
Uncorrected SS	1346.8585	**Corrected SS**	583.833668
Coeff Variation	88.0468449	**Std Error Mean**	0.31585838

Basic Statistical Measures			
Location		**Variability**	
Mean	3.147922	**Std Deviation**	2.77165
Median	2.300000	**Variance**	7.68202
Mode	1.000000	**Range**	17.72000
		Interquartile Range	2.50000

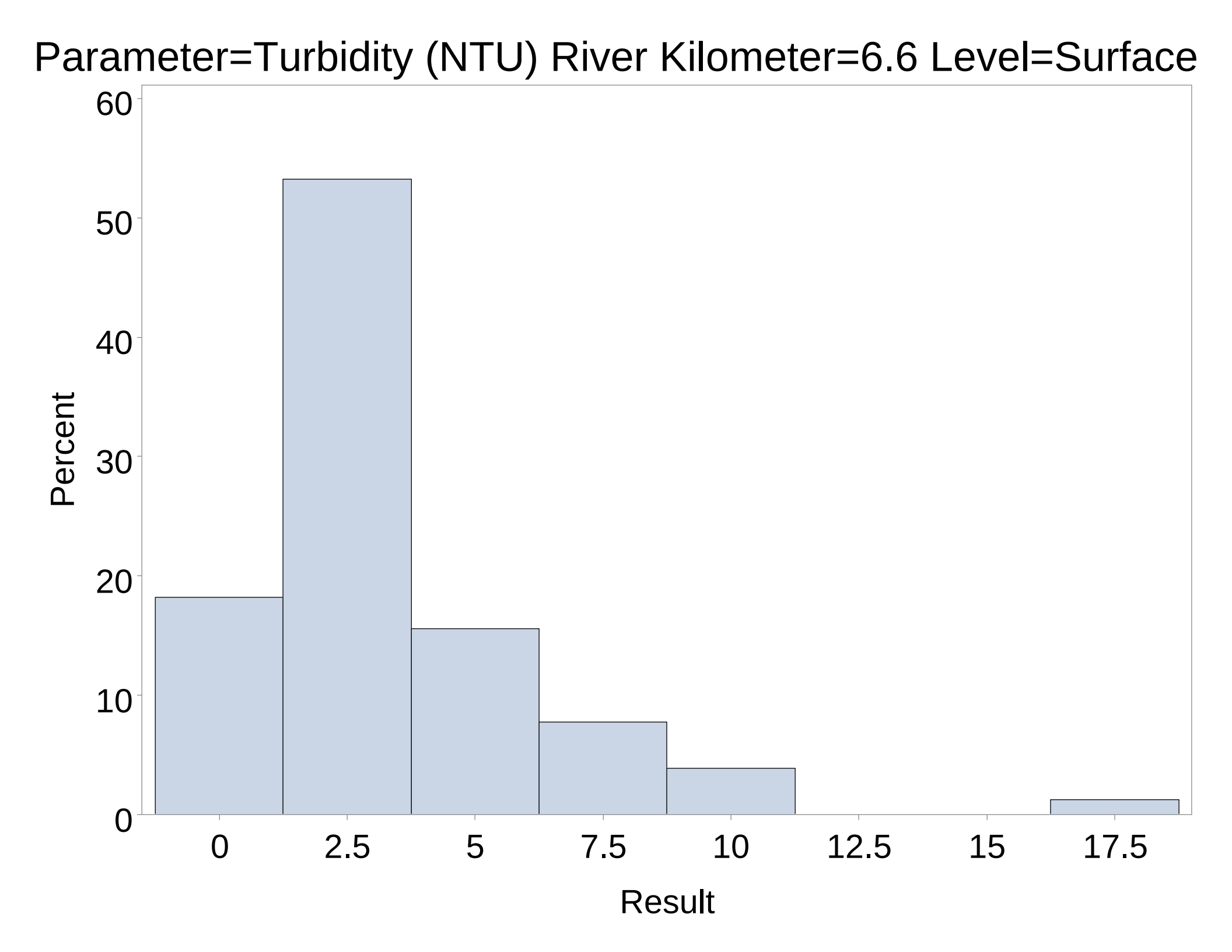
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.966245	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.00
99%	18.00
95%	8.90
90%	6.60
75% Q3	4.00
50% Median	2.30
25% Q1	1.50
10%	1.00
5%	0.50
1%	0.28
0% Min	0.28

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.28	98177	7.7	98199
0.30	98178	8.9	98163
0.30	98172	9.2	98152
0.50	98176	11.0	98186
0.78	98168	18.0	98160


Parameter=Turbidity (NTU) River Kilometer=6.6 Level=Surface
Percent
60
50
40
30
20
10
0
0
2.5
5
7.5
10
12.5
15
17.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=15.5 Level=Bottom

Moments			
N	77	**Sum Weights**	77
Mean	4.48766234	**Sum Observations**	345.55
Std Deviation	2.96863467	**Variance**	8.81279183
Skewness	2.31046774	**Kurtosis**	9.4211052
Uncorrected SS	2220.4839	**Corrected SS**	669.772179
Coeff Variation	66.1510259	**Std Error Mean**	0.33830732

Basic Statistical Measures			
Location		**Variability**	
Mean	4.487662	**Std Deviation**	2.96863
Median	4.000000	**Variance**	8.81279
Mode	2.900000	**Range**	19.72000
		Interquartile Range	2.80000

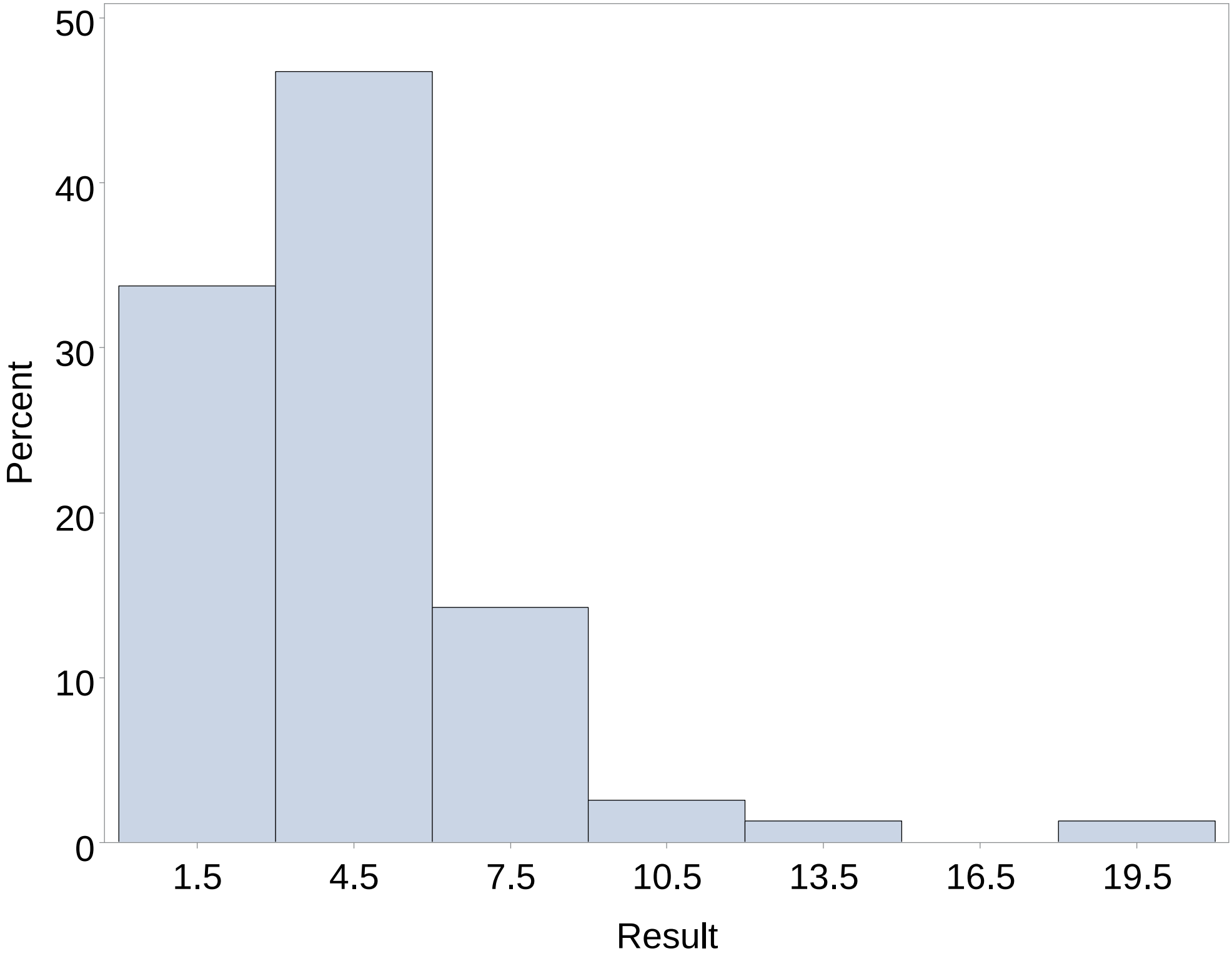
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.26505	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	20.00
99%	20.00
95%	9.00
90%	7.70
75% Q3	5.60
50% Median	4.00
25% Q1	2.80
10%	1.60
5%	0.83
1%	0.28
0% Min	0.28

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.28	98254	8.9	98240
0.37	98253	9.0	98262
0.56	98255	11.2	98271
0.83	98250	13.0	98264
1.00	98231	20.0	98247


50
40
30
20
10
0
Percent
1.5
4.5
7.5
10.5
13.5
16.5
19.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=15.5 Level=Surface

Moments			
N	77	**Sum Weights**	77
Mean	3.78506494	**Sum Observations**	291.45
Std Deviation	3.38921301	**Variance**	11.4867648
Skewness	3.8978	**Kurtosis**	19.5951624
Uncorrected SS	1976.1513	**Corrected SS**	872.994125
Coeff Variation	89.5417401	**Std Error Mean**	0.38623667

Basic Statistical Measures			
Location		**Variability**	
Mean	3.785065	**Std Deviation**	3.38921
Median	3.000000	**Variance**	11.48676
Mode	2.800000	**Range**	23.68000
		Interquartile Range	2.00000

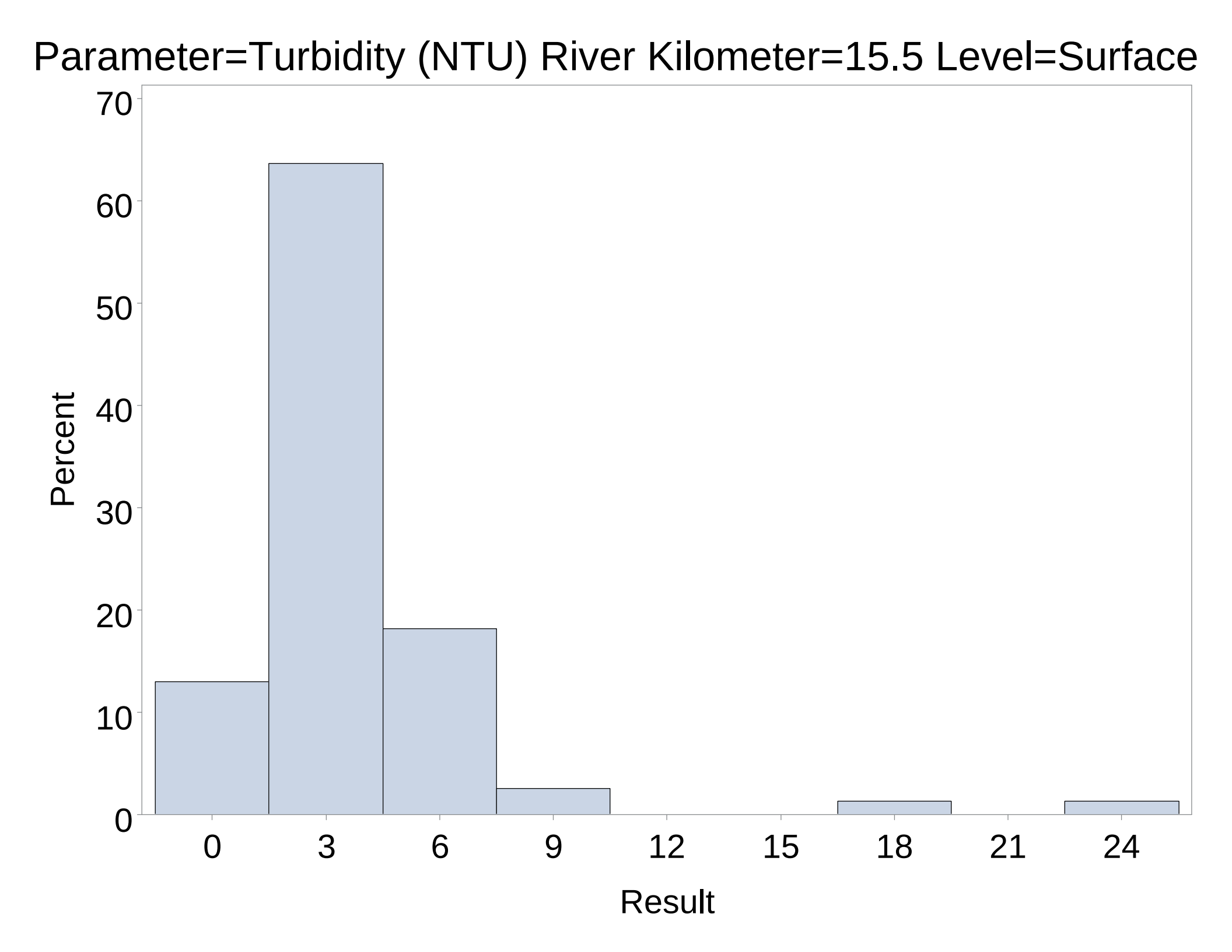
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.799859	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.00
99%	24.00
95%	8.90
90%	6.20
75% Q3	4.20
50% Median	3.00
25% Q1	2.20
10%	1.30
5%	1.00
1%	0.32
0% Min	0.32

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.32	98331	7.4	98313
0.33	98330	8.9	98317
1.00	98311	8.9	98324
1.00	98310	18.0	98298
1.10	98320	24.0	98326


Parameter=Turbidity (NTU) River Kilometer=15.5 Level=Surface
Percent
70
60
50
40
30
20
10
0
0
3
6
9
12
15
18
21
24
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=23.6 Level=Bottom

Moments			
N	76	**Sum Weights**	76
Mean	3.78105263	**Sum Observations**	287.36
Std Deviation	2.44512281	**Variance**	5.97862554
Skewness	2.93102048	**Kurtosis**	12.6842144
Uncorrected SS	1534.9202	**Corrected SS**	448.396916
Coeff Variation	64.6677803	**Std Error Mean**	0.28047482

Basic Statistical Measures			
Location		**Variability**	
Mean	3.781053	**Std Deviation**	2.44512
Median	3.200000	**Variance**	5.97863
Mode	3.200000	**Range**	16.65000
		Interquartile Range	2.20000

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

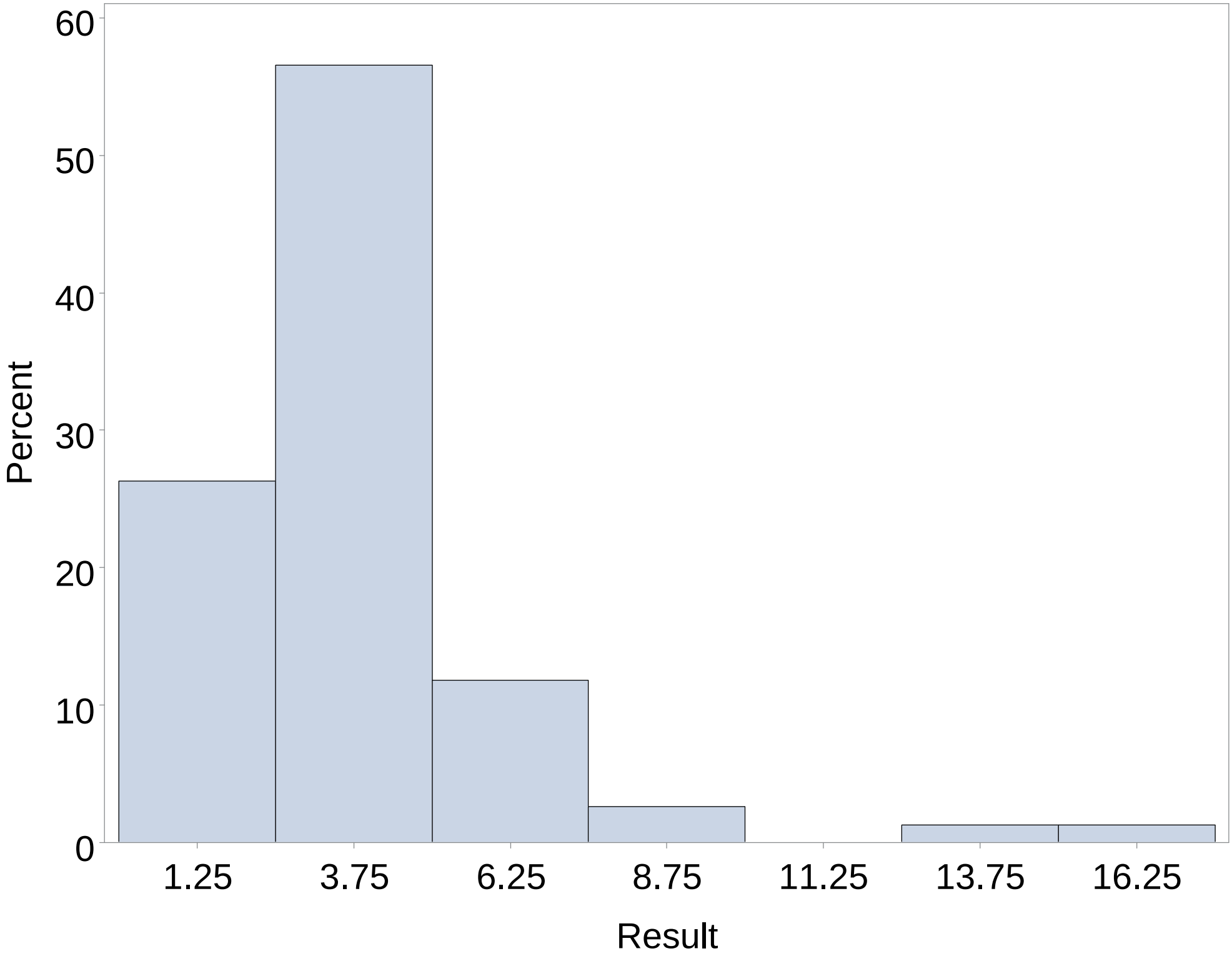
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.4809	**Pr > |t|**	<.0001
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.00
99%	17.00
95%	7.60
90%	5.90
75% Q3	4.60
50% Median	3.20
25% Q1	2.40
10%	1.90
5%	1.40
1%	0.35
0% Min	0.35

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.35	98407	7.2	98418
0.46	98406	7.6	98417
0.94	98408	7.8	98419
1.40	98435	13.0	98376
1.40	98403	17.0	98375


60
50
40
30
20
10
0
Percent
1.25
3.75
6.25
8.75
11.25
13.75
16.25
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=23.6 Level=Surface

Moments			
N	77	**Sum Weights**	77
Mean	3.09831169	**Sum Observations**	238.57
Std Deviation	1.781224	**Variance**	3.17275895
Skewness	3.15819436	**Kurtosis**	17.6139648
Uncorrected SS	980.2939	**Corrected SS**	241.129681
Coeff Variation	57.4901489	**Std Error Mean**	0.20298931

Basic Statistical Measures			
Location		**Variability**	
Mean	3.098312	**Std Deviation**	1.78122
Median	2.800000	**Variance**	3.17276
Mode	2.400000	**Range**	13.71000
		Interquartile Range	1.50000

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

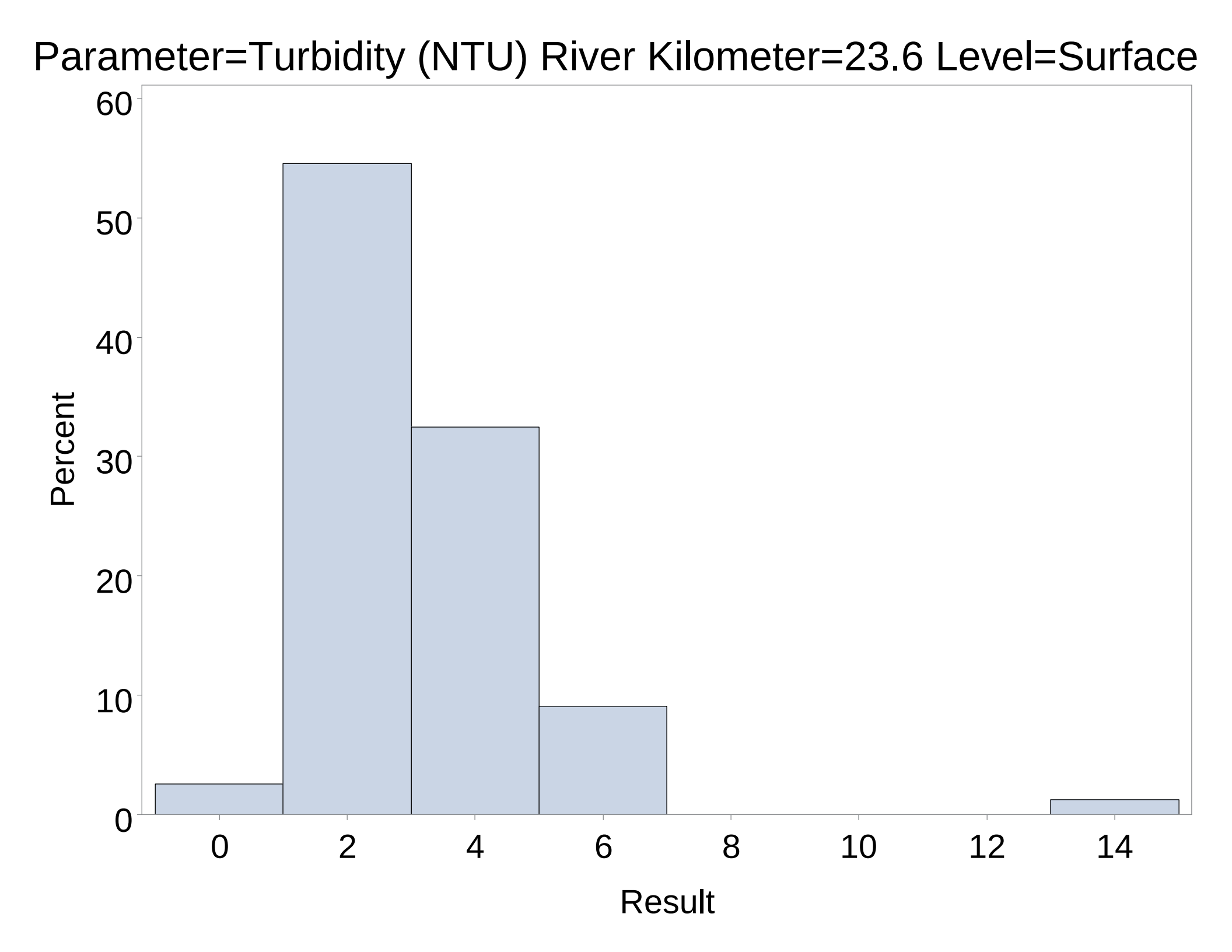
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.26342	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.00
99%	14.00
95%	5.70
90%	5.00
75% Q3	3.70
50% Median	2.80
25% Q1	2.20
10%	1.50
5%	1.10
1%	0.29
0% Min	0.29

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.29	98483	5.5	98453
0.41	98484	5.7	98452
1.00	98461	5.7	98505
1.10	98485	6.3	98472
1.20	98480	14.0	98451


Parameter=Turbidity (NTU) River Kilometer=23.6 Level=Surface
Percent
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=30.7 Level=Bottom

Moments			
N	76	**Sum Weights**	76
Mean	3.535	**Sum Observations**	268.66
Std Deviation	2.60858199	**Variance**	6.8047
Skewness	2.31468517	**Kurtosis**	6.9524017
Uncorrected SS	1460.0656	**Corrected SS**	510.3525
Coeff Variation	73.7929842	**Std Error Mean**	0.29922488

Basic Statistical Measures			
Location		**Variability**	
Mean	3.535000	**Std Deviation**	2.60858
Median	3.100000	**Variance**	6.80470
Mode	1.500000	**Range**	14.62000
		Interquartile Range	2.05000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

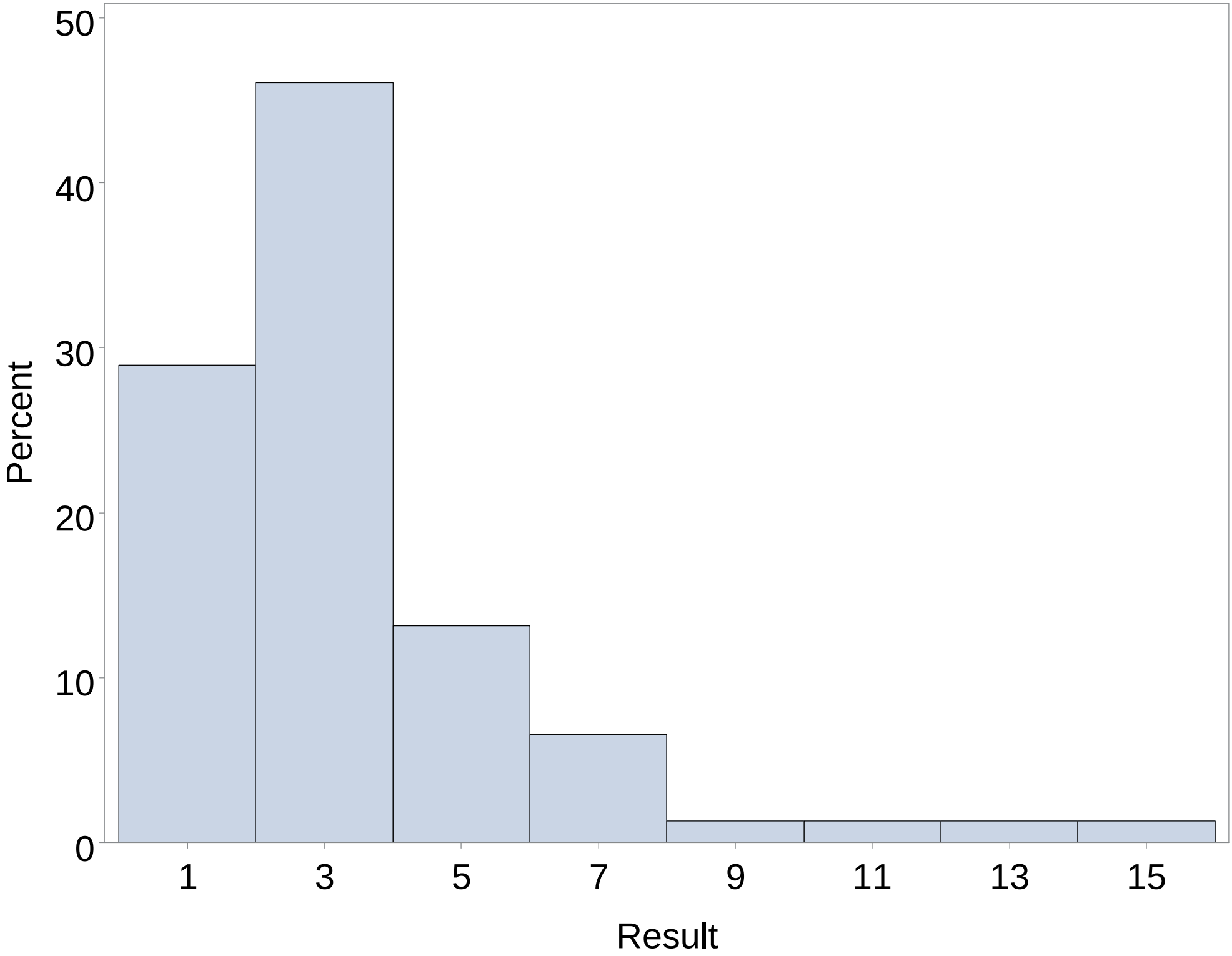
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.81386	**Pr > |t|**	<.0001
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.00
99%	15.00
95%	8.00
90%	6.20
75% Q3	3.95
50% Median	3.10
25% Q1	1.90
10%	1.50
5%	0.91
1%	0.38
0% Min	0.38

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.38	98559	7.9	98554
0.46	98560	8.0	98597
0.67	98561	10.0	98548
0.91	98562	13.8	98598
1.00	98538	15.0	98529


50
40
30
20
10
0
Percent
1
3
5
7
9
11
13
15
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=30.7 Level=Surface

Moments			
N	77	**Sum Weights**	77
Mean	3.29376623	**Sum Observations**	253.62
Std Deviation	2.5805992	**Variance**	6.65949221
Skewness	3.52310655	**Kurtosis**	16.5528706
Uncorrected SS	1341.4864	**Corrected SS**	506.121408
Coeff Variation	78.3479765	**Std Error Mean**	0.29408657

Basic Statistical Measures			
Location		**Variability**	
Mean	3.293766	**Std Deviation**	2.58060
Median	2.800000	**Variance**	6.65949
Mode	1.700000	**Range**	17.55000
		Interquartile Range	2.00000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

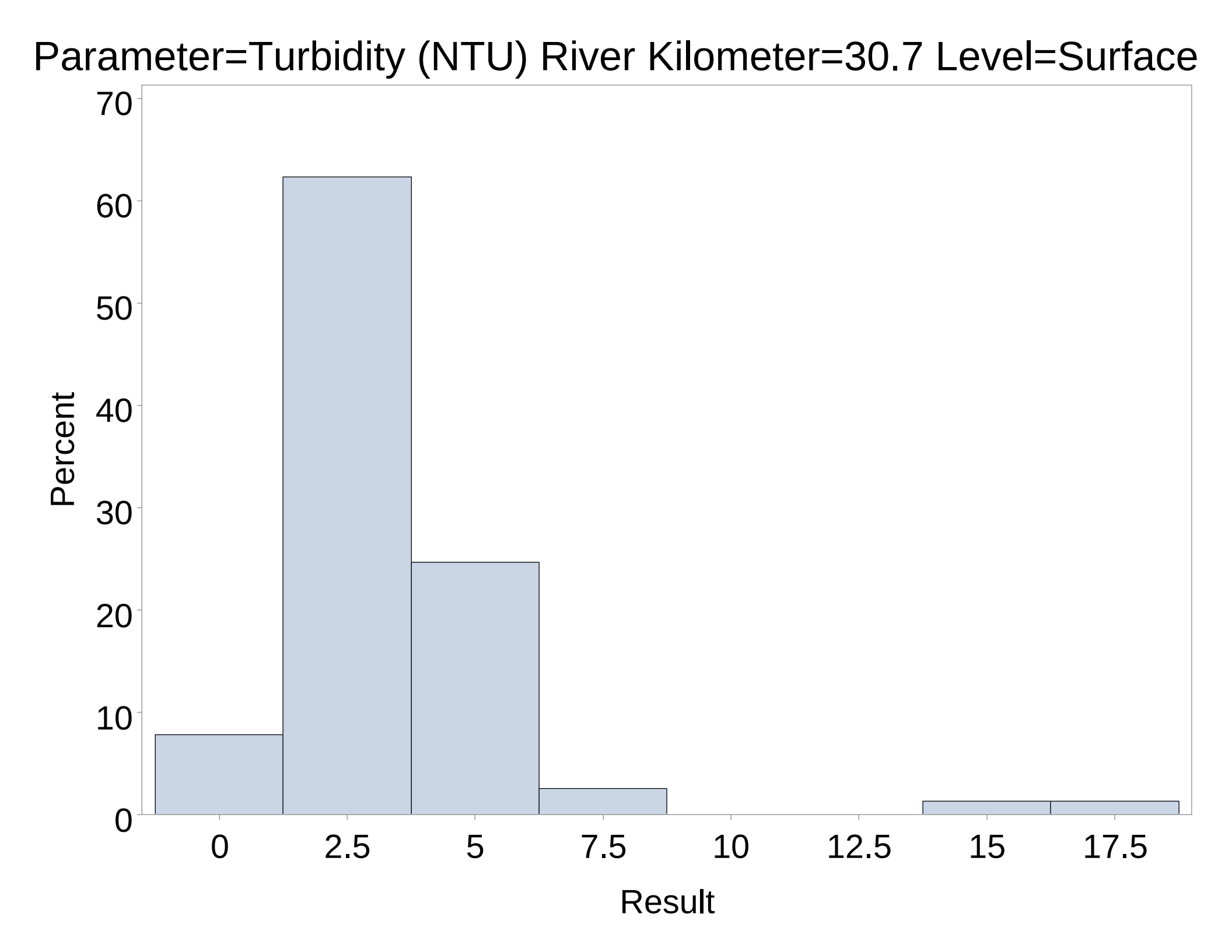
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.19999	**Pr > |t|**	<.0001
Sign	**M**	38.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1501.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.00
99%	18.00
95%	7.60
90%	5.10
75% Q3	3.90
50% Median	2.80
25% Q1	1.90
10%	1.40
5%	1.00
1%	0.45
0% Min	0.45

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Turbidity (NTU) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.45	98636	6.0	98674
0.51	98637	7.6	98630
0.83	98638	8.0	98624
1.00	98614	14.0	98605
1.10	98608	18.0	98604


Parameter=Turbidity (NTU) River Kilometer=30.7 Level=Surface
Percent
70
60
50
40
30
20
10
0
0
2.5
5
7.5
10
12.5
15
17.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=-2.4 Level=Bottom

Moments			
N	166	**Sum Weights**	166
Mean	6.31036145	**Sum Observations**	1047.52
Std Deviation	4.61130638	**Variance**	21.2641465
Skewness	2.21951898	**Kurtosis**	7.89898201
Uncorrected SS	10118.814	**Corrected SS**	3508.58418
Coeff Variation	73.0751546	**Std Error Mean**	0.35790679

Basic Statistical Measures			
Location		**Variability**	
Mean	6.310361	**Std Deviation**	4.61131
Median	4.600000	**Variance**	21.26415
Mode	4.000000	**Range**	32.60000
		Interquartile Range	4.60000

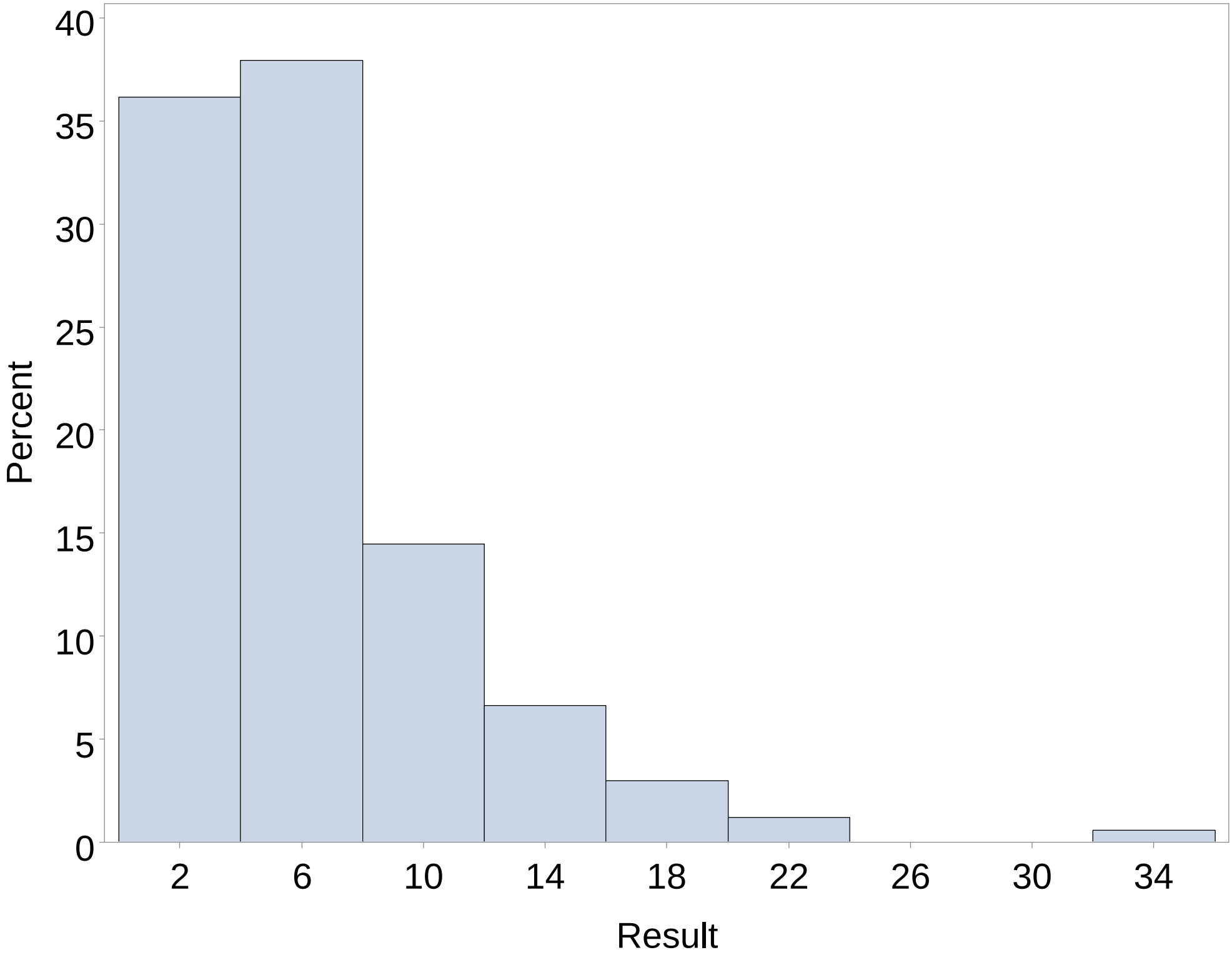
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.6313	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.0
99%	21.7
95%	15.0
90%	12.0
75% Q3	8.0
50% Median	4.6
25% Q1	3.4
10%	2.4
5%	1.6
1%	1.4
0% Min	1.4

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=-2.4 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.4	98844	17.0	98714
1.4	98833	17.0	98718
1.4	98832	20.0	98713
1.4	98827	21.7	98817
1.4	98812	34.0	98689


40
35
30
25
20
15
10
5
0
Percent
2
6
10
14
18
22
26
30
34
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=-2.4 Level=Surface

Moments			
N	166	**Sum Weights**	166
Mean	5.7576506	**Sum Observations**	955.77
Std Deviation	4.26235316	**Variance**	18.1676544
Skewness	1.79614998	**Kurtosis**	4.07689265
Uncorrected SS	8500.6527	**Corrected SS**	2997.66298
Coeff Variation	74.029382	**Std Error Mean**	0.33082276

Basic Statistical Measures			
Location		**Variability**	
Mean	5.757651	**Std Deviation**	4.26235
Median	4.200000	**Variance**	18.16765
Mode	1.400000	**Range**	25.00000
		Interquartile Range	4.60000

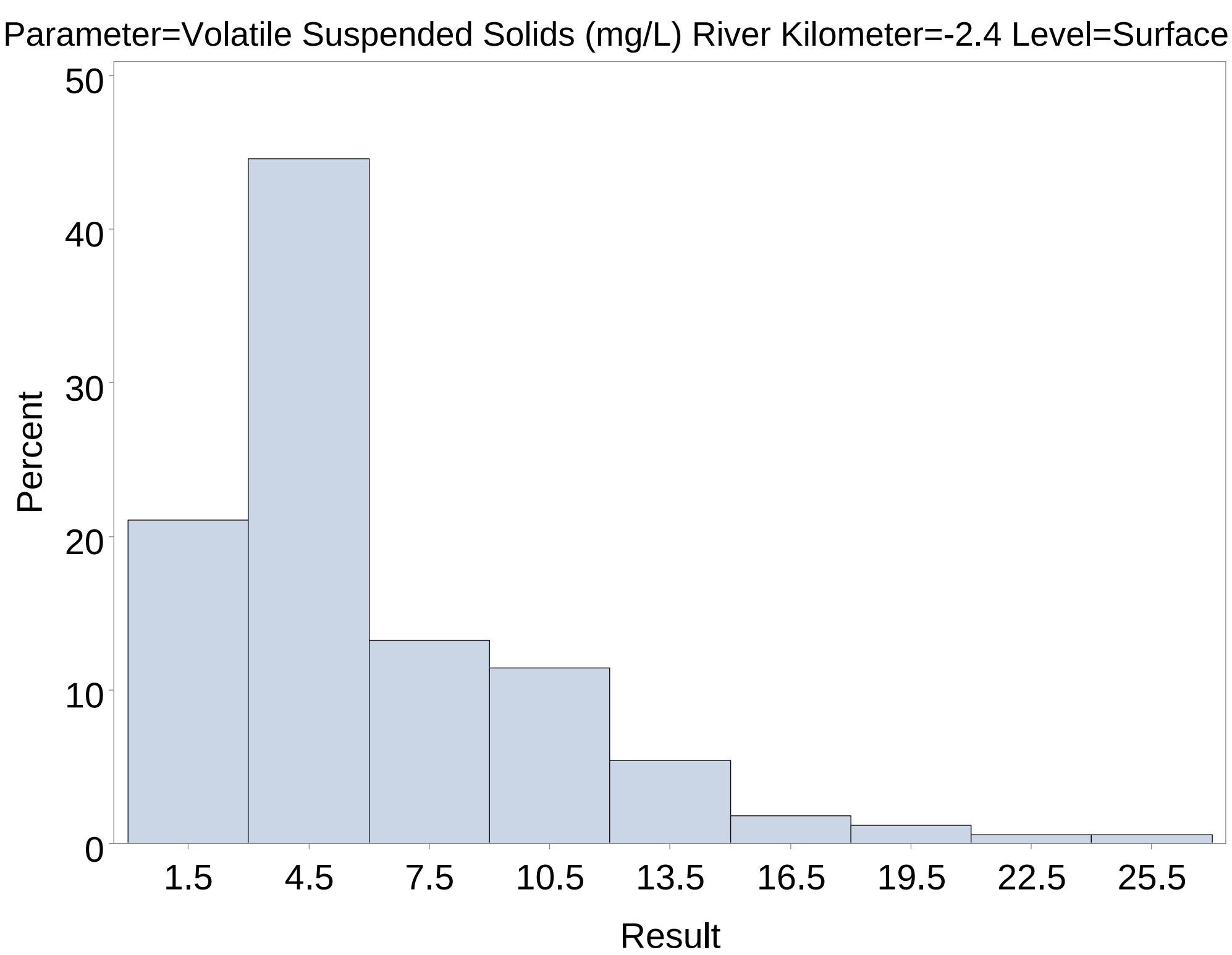
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.40403	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.0
99%	22.0
95%	14.0
90%	11.0
75% Q3	7.6
50% Median	4.2
25% Q1	3.0
10%	1.6
5%	1.4
1%	1.0
0% Min	1.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=-2.4 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	98873	17	98901
1.0	98862	18	98878
1.0	98852	19	98879
1.4	99012	22	98866
1.4	99010	26	98855


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=-2.4 Level=Surface
Percent
50
40
30
20
10
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=6.6 Level=Bottom

Moments			
N	166	**Sum Weights**	166
Mean	8.0003012	**Sum Observations**	1328.05
Std Deviation	5.56754855	**Variance**	30.9975969
Skewness	1.98637255	**Kurtosis**	6.56907737
Uncorrected SS	15739.4035	**Corrected SS**	5114.60348
Coeff Variation	69.5917367	**Std Error Mean**	0.43212557

Basic Statistical Measures			
Location		**Variability**	
Mean	8.000301	**Std Deviation**	5.56755
Median	6.400000	**Variance**	30.99760
Mode	6.000000	**Range**	39.30000
		Interquartile Range	5.80000

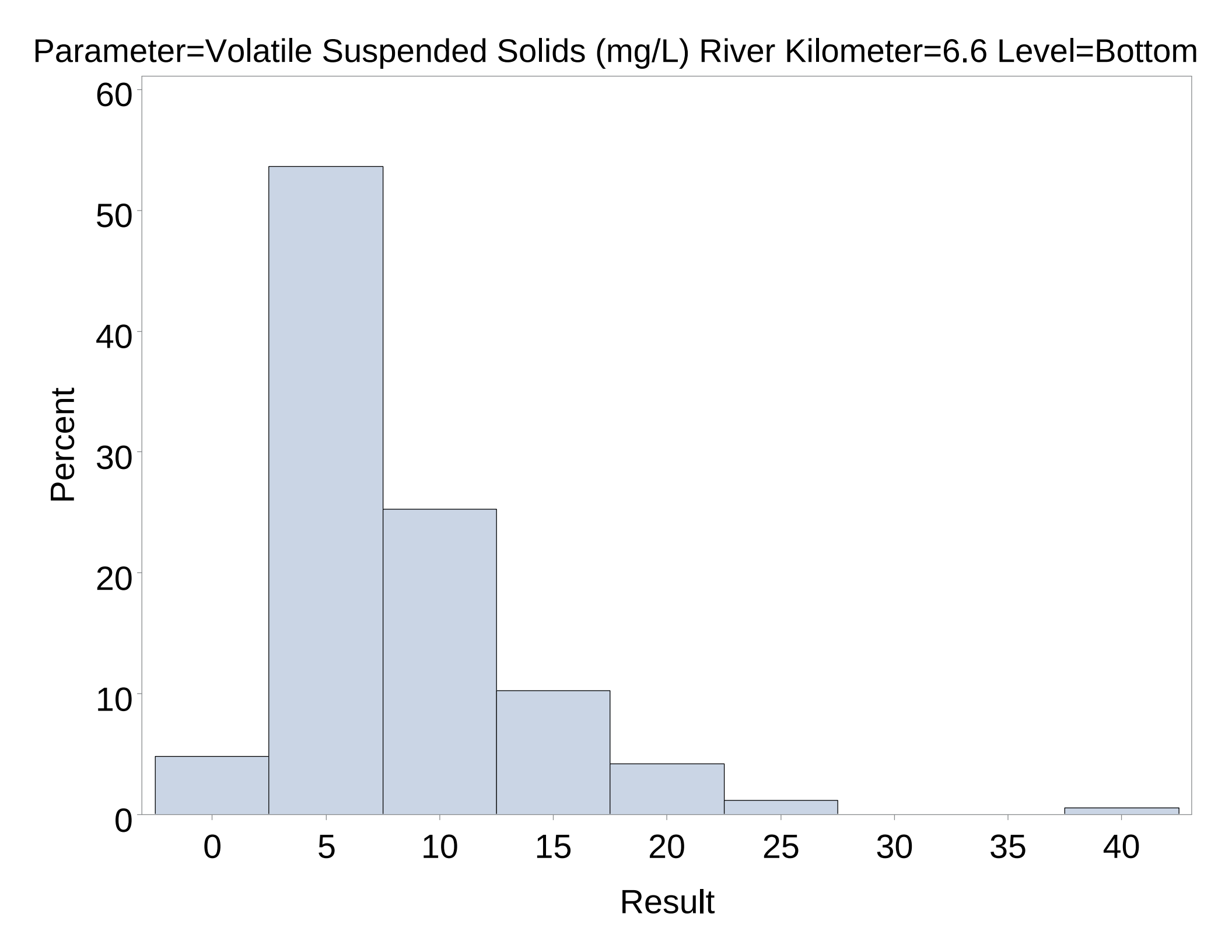
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.51383	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40.3
99%	24.0
95%	19.6
90%	15.2
75% Q3	10.0
50% Median	6.4
25% Q1	4.2
10%	2.8
5%	2.5
1%	1.4
0% Min	1.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=6.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	99025	22.0	99046
1.4	99102	22.0	99058
1.4	99095	23.0	99045
1.4	99092	24.0	99021
2.2	99139	40.3	99169


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=6.6 Level=Bottom
Percent
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
40
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=6.6 Level=Surface

Moments			
N	166	**Sum Weights**	166
Mean	5.76945783	**Sum Observations**	957.73
Std Deviation	3.9789725	**Variance**	15.8322221
Skewness	1.50783599	**Kurtosis**	2.22466683
Uncorrected SS	8137.8995	**Corrected SS**	2612.31665
Coeff Variation	68.9661423	**Std Error Mean**	0.30882816

Basic Statistical Measures			
Location		**Variability**	
Mean	5.769458	**Std Deviation**	3.97897
Median	4.400000	**Variance**	15.83222
Mode	4.000000	**Range**	19.60000
		Interquartile Range	4.50000

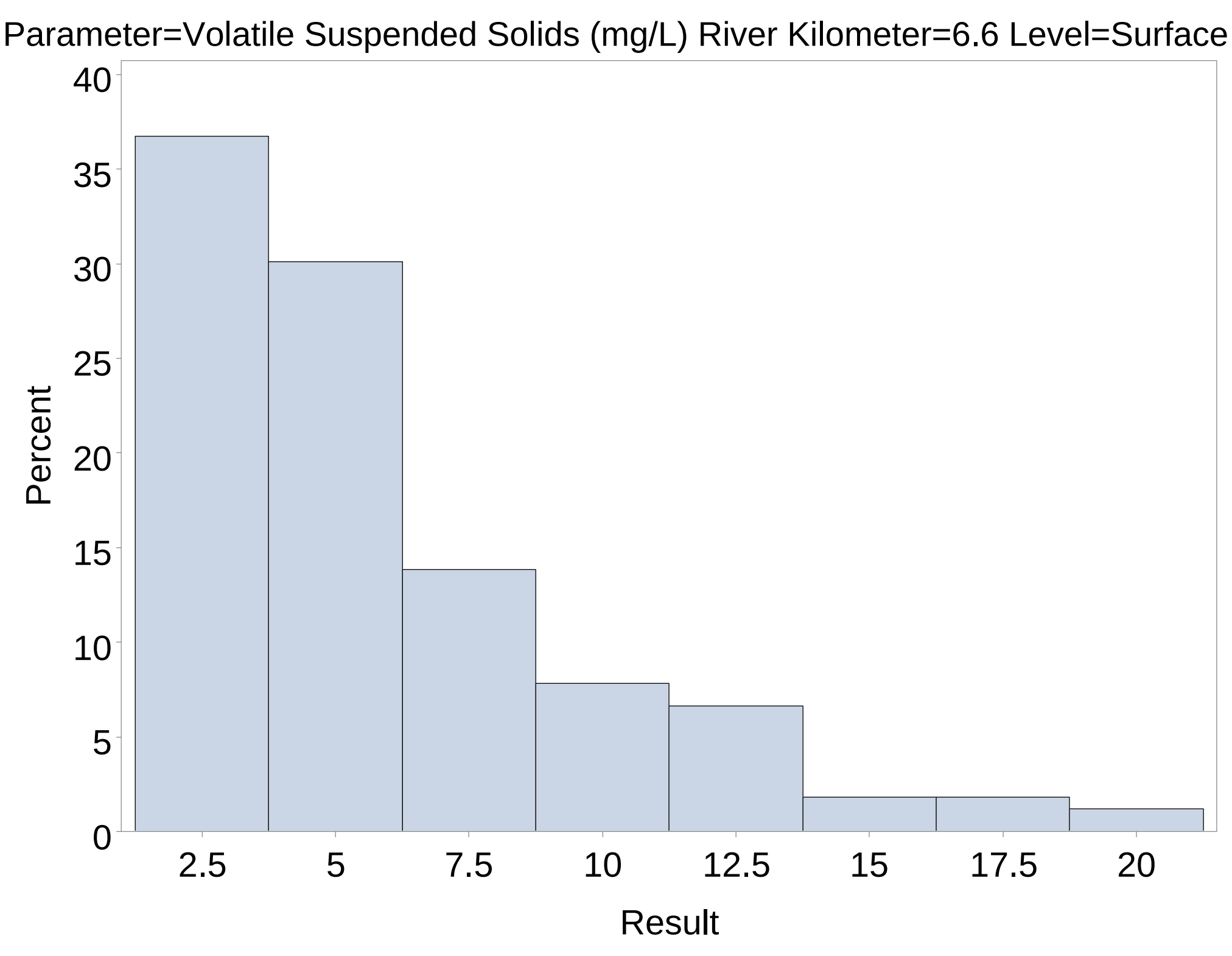
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.68177	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	21.0
99%	20.0
95%	13.0
90%	12.0
75% Q3	7.5
50% Median	4.4
25% Q1	3.0
10%	2.0
5%	1.4
1%	1.4
0% Min	1.4

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=6.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.4	99321	17	99222
1.4	99318	18	99187
1.4	99315	18	99245
1.4	99313	20	99220
1.4	99304	21	99211


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=6.6 Level=Surface
Percent
40
35
30
25
20
15
10
5
0
2.5
5
7.5
10
12.5
15
17.5
20
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=15.5 Level=Bottom

Moments			
N	166	**Sum Weights**	166
Mean	6.02740964	**Sum Observations**	1000.55
Std Deviation	3.79861489	**Variance**	14.4294751
Skewness	1.57302707	**Kurtosis**	3.71208351
Uncorrected SS	8411.5881	**Corrected SS**	2380.86339
Coeff Variation	63.0223449	**Std Error Mean**	0.29482969

Basic Statistical Measures			
Location		**Variability**	
Mean	6.027410	**Std Deviation**	3.79861
Median	5.000000	**Variance**	14.42948
Mode	4.000000	**Range**	23.00000
		Interquartile Range	4.60000

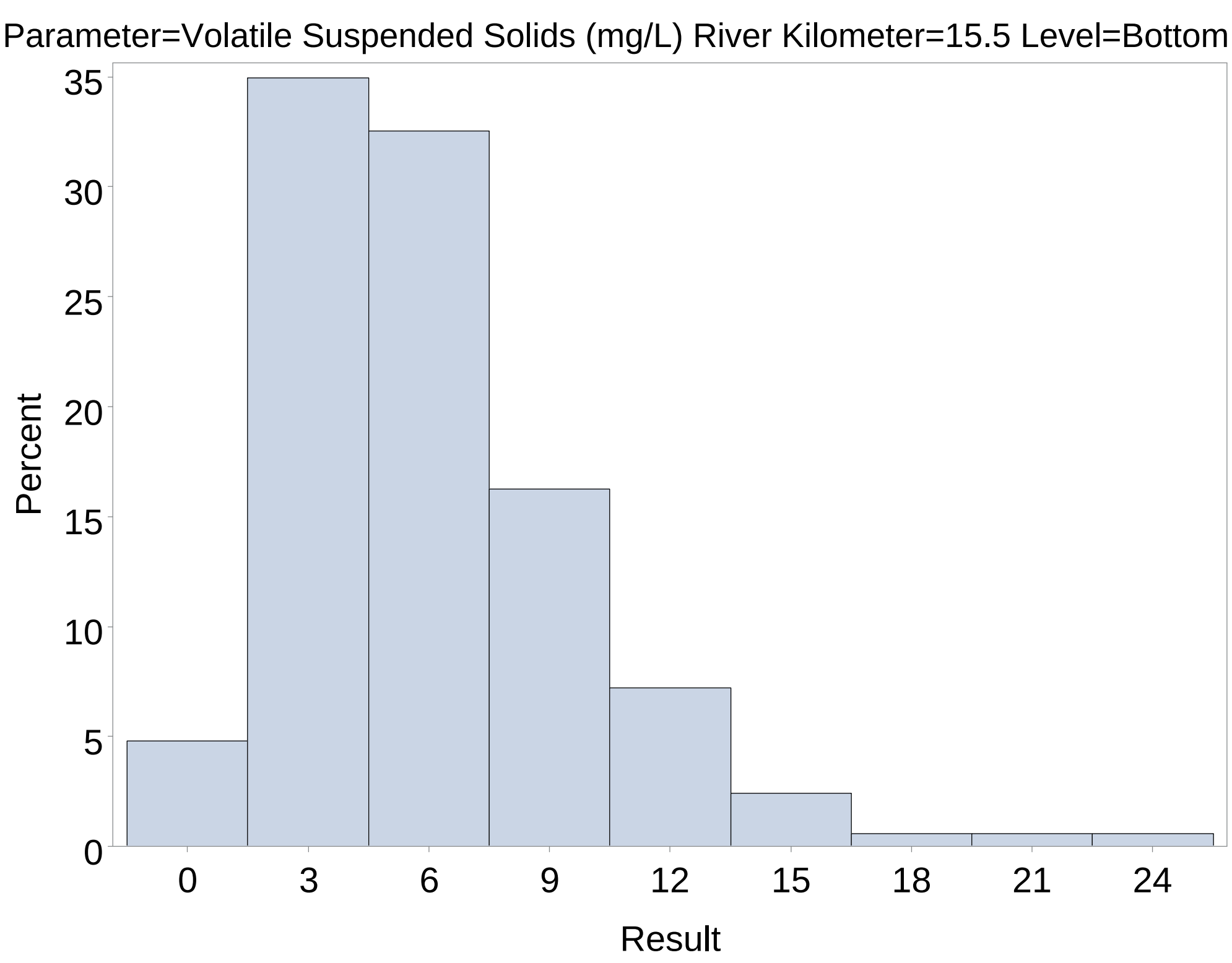
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.4437	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.0
99%	20.0
95%	13.0
90%	10.8
75% Q3	8.0
50% Median	5.0
25% Q1	3.4
10%	2.0
5%	1.5
1%	1.0
0% Min	1.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=15.5 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	99380	15	99388
1.0	99379	16	99418
1.0	99358	19	99372
1.0	99355	20	99387
1.4	99504	24	99370


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=15.5 Level=Bottom
Percent
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=15.5 Level=Surface

Moments			
N	166	**Sum Weights**	166
Mean	5.185	**Sum Observations**	860.71
Std Deviation	7.46005474	**Variance**	55.6524167
Skewness	9.46062757	**Kurtosis**	107.234157
Uncorrected SS	13645.4301	**Corrected SS**	9182.64875
Coeff Variation	143.877623	**Std Error Mean**	0.57901254

Basic Statistical Measures			
Location		**Variability**	
Mean	5.185000	**Std Deviation**	7.46005
Median	4.000000	**Variance**	55.65242
Mode	4.000000	**Range**	90.00000
		Interquartile Range	2.80000

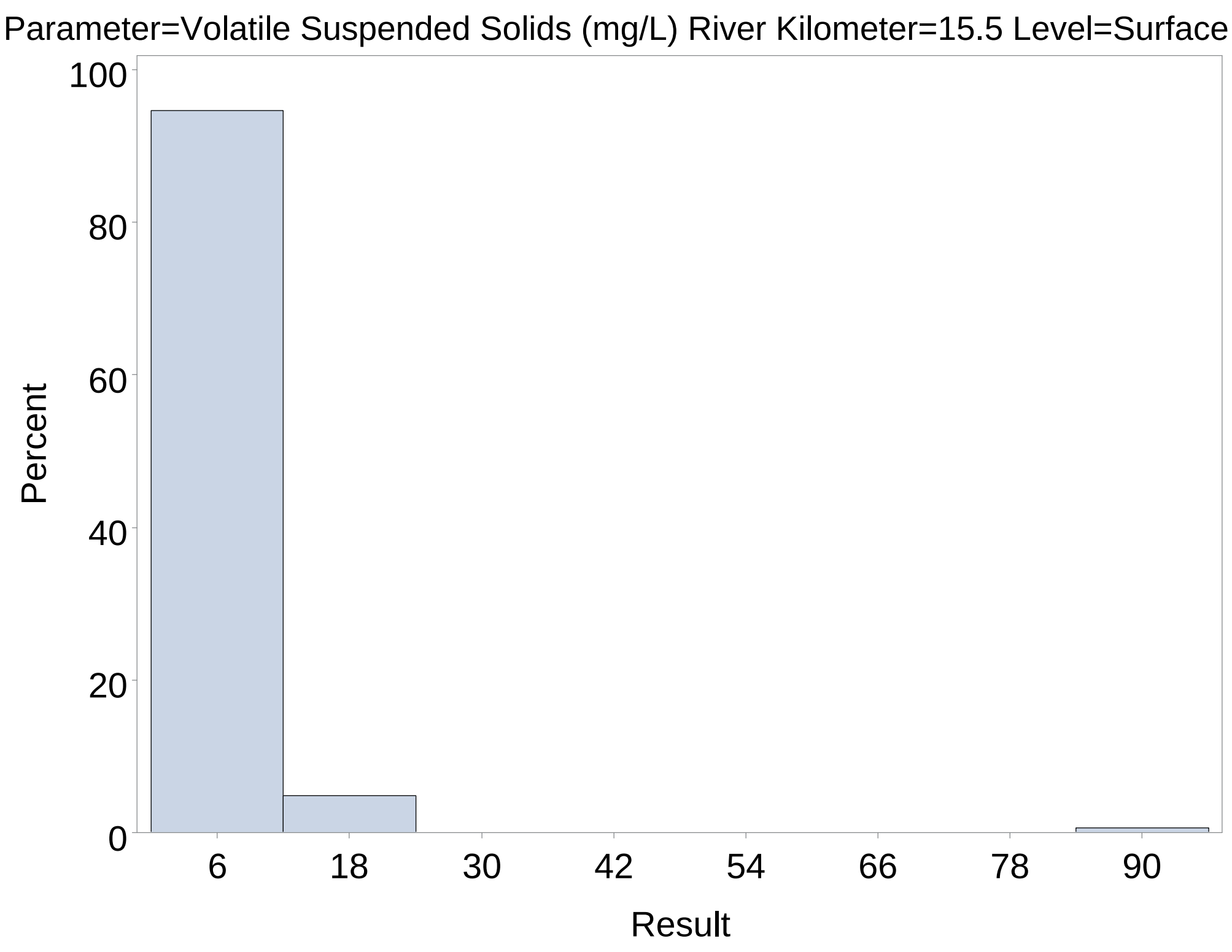
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.954901	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	91.0
99%	18.0
95%	13.0
90%	9.0
75% Q3	5.4
50% Median	4.0
25% Q1	2.6
10%	1.4
5%	1.4
1%	1.0
0% Min	1.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=15.5 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	99629	15	99654
1	99549	16	99530
1	99527	18	99519
1	99524	18	99554
1	99522	91	99538


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=15.5 Level=Surface
Percent
100
80
60
40
20
0
6
18
30
42
54
66
78
90
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=23.6 Level=Bottom

Moments			
N	165	**Sum Weights**	165
Mean	4.42654545	**Sum Observations**	730.38
Std Deviation	2.78179812	**Variance**	7.7384008
Skewness	1.62934437	**Kurtosis**	3.5455618
Uncorrected SS	4502.158	**Corrected SS**	1269.09773
Coeff Variation	62.8435459	**Std Error Mean**	0.21656269

Basic Statistical Measures			
Location		**Variability**	
Mean	4.426545	**Std Deviation**	2.78180
Median	4.000000	**Variance**	7.73840
Mode	4.000000	**Range**	15.00000
		Interquartile Range	3.35000

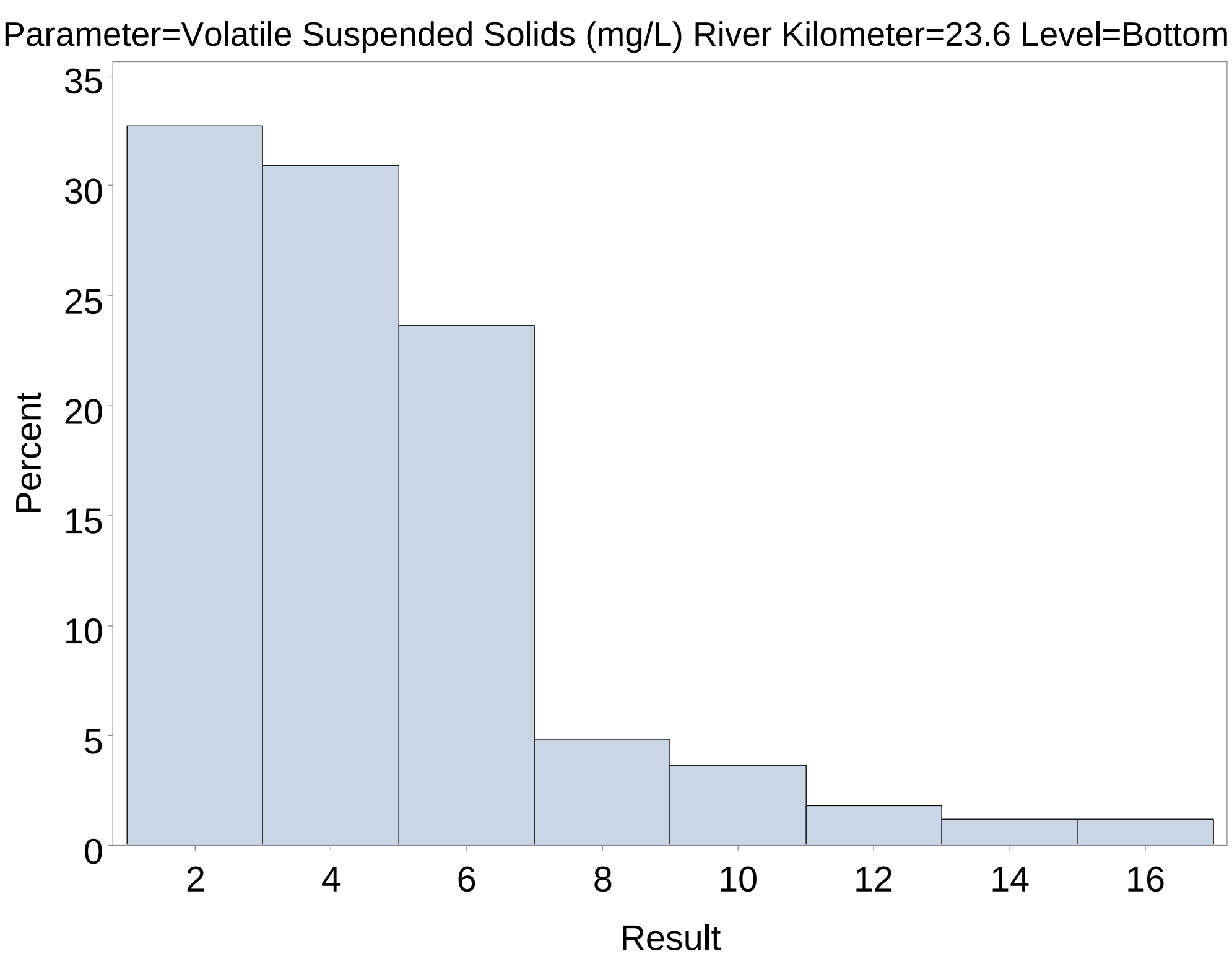
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.44002	**Pr > |t|**	<.0001
Sign	**M**	82.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6847.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.00
99%	15.00
95%	10.00
90%	7.20
75% Q3	5.75
50% Median	4.00
25% Q1	2.40
10%	1.60
5%	1.40
1%	1.00
0% Min	1.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=23.6 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	99715	12	99720
1	99711	14	99719
1	99710	14	99831
1	99703	15	99832
1	99702	16	99677


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=23.6 Level=Bottom
Percent
0
5
10
15
20
25
30
35
2
4
6
8
10
12
14
16
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=23.6 Level=Surface

Moments			
N	166	**Sum Weights**	166
Mean	3.64692771	**Sum Observations**	605.39
Std Deviation	2.48971233	**Variance**	6.19866747
Skewness	2.02322725	**Kurtosis**	5.87928374
Uncorrected SS	3230.5937	**Corrected SS**	1022.78013
Coeff Variation	68.26876	**Std Error Mean**	0.19323915

Basic Statistical Measures			
Location		**Variability**	
Mean	3.646928	**Std Deviation**	2.48971
Median	3.000000	**Variance**	6.19867
Mode	2.000000	**Range**	16.20000
		Interquartile Range	2.67000

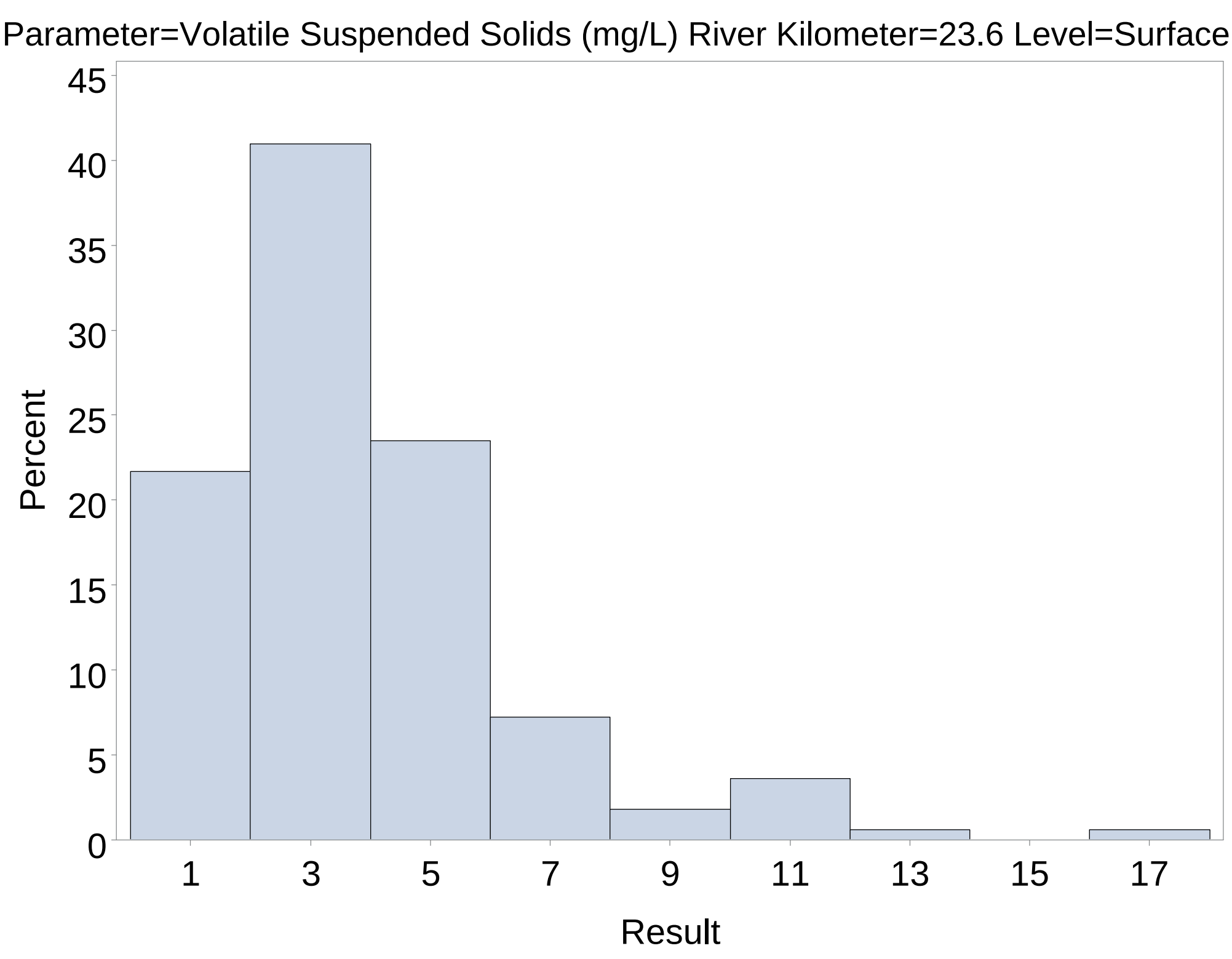
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.87261	**Pr > |t|**	<.0001
Sign	**M**	83	**Pr >= |M|**	<.0001
Signed Rank	**S**	6930.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.00
99%	13.00
95%	9.00
90%	6.80
75% Q3	4.67
50% Median	3.00
25% Q1	2.00
10%	1.40
5%	1.40
1%	1.00
0% Min	0.80

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=23.6 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.8	99971	10.0	99996
1.0	99881	10.5	99998
1.0	99878	10.7	99997
1.0	99876	13.0	99887
1.0	99861	17.0	99842


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=23.6 Level=Surface
Percent
45
40
35
30
25
20
15
10
5
0
1
3
5
7
9
11
13
15
17
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=30.7 Level=Bottom

Moments			
N	164	**Sum Weights**	164
Mean	3.76128049	**Sum Observations**	616.85
Std Deviation	2.74220662	**Variance**	7.51969712
Skewness	3.05864237	**Kurtosis**	12.8269037
Uncorrected SS	3545.8565	**Corrected SS**	1225.71063
Coeff Variation	72.9061984	**Std Error Mean**	0.21413036

Basic Statistical Measures			
Location		**Variability**	
Mean	3.761280	**Std Deviation**	2.74221
Median	3.200000	**Variance**	7.51970
Mode	3.000000	**Range**	17.00000
		Interquartile Range	2.60000

Note: The mode displayed is the smallest of 2 modes with a count of 17.

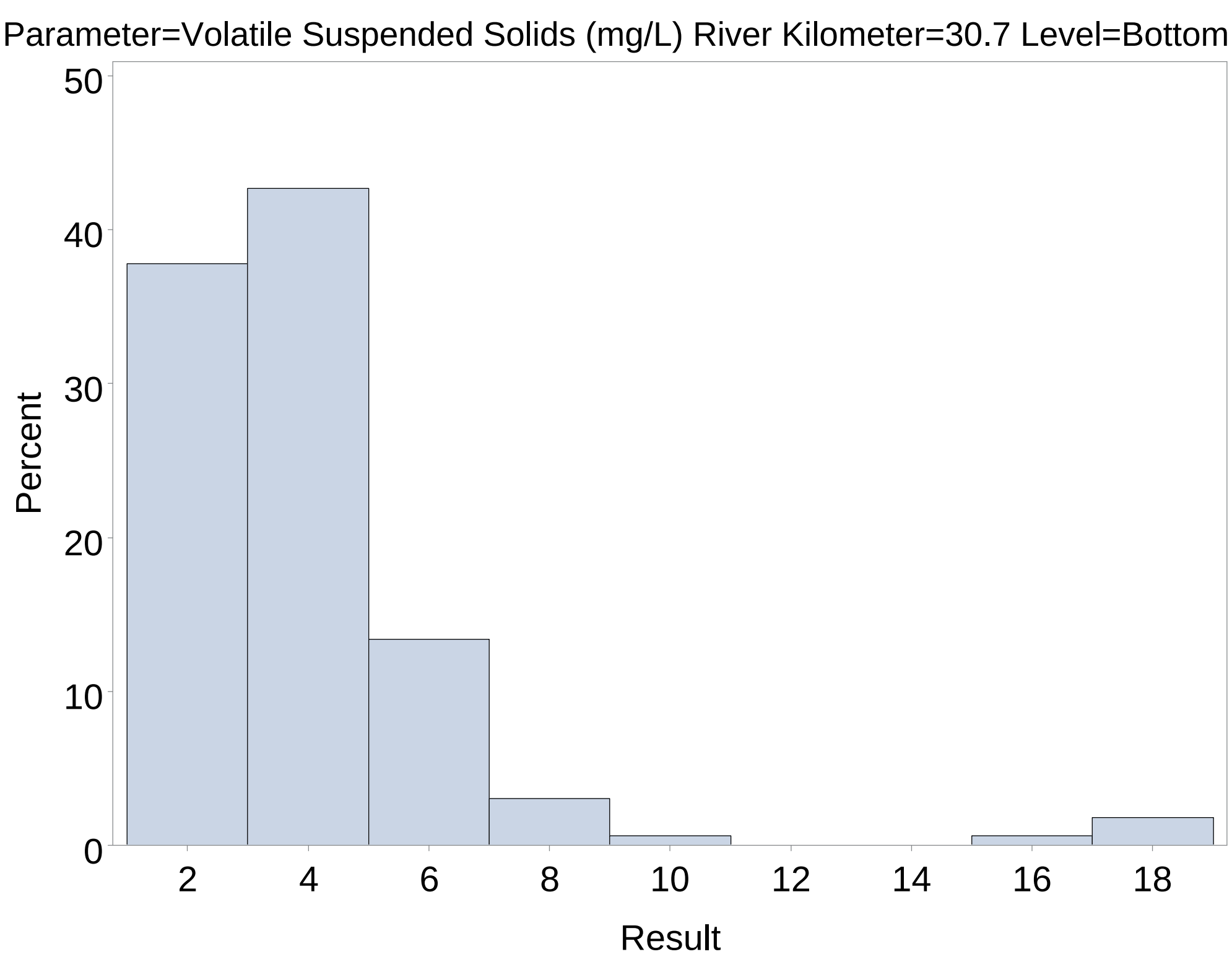
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.56538	**Pr > |t|**	<.0001
Sign	**M**	82	**Pr >= |M|**	<.0001
Signed Rank	**S**	6765	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.0
99%	17.7
95%	7.2
90%	6.4
75% Q3	4.6
50% Median	3.2
25% Q1	2.0
10%	1.4
5%	1.0
1%	1.0
0% Min	1.0

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=30.7 Level=Bottom

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	100052	9.0	100009
1	100050	16.0	100008
1	100049	17.5	100163
1	100048	17.7	100162
1	100047	18.0	100027


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=30.7 Level=Bottom
Percent
50
40
30
20
10
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=30.7 Level=Surface

Moments			
N	165	**Sum Weights**	165
Mean	3.44951515	**Sum Observations**	569.17
Std Deviation	2.35850557	**Variance**	5.56254854
Skewness	2.70597841	**Kurtosis**	11.5679445
Uncorrected SS	2875.6185	**Corrected SS**	912.257961
Coeff Variation	68.3720891	**Std Error Mean**	0.18360941

Basic Statistical Measures			
Location		**Variability**	
Mean	3.449515	**Std Deviation**	2.35851
Median	3.000000	**Variance**	5.56255
Mode	3.000000	**Range**	17.00000
		Interquartile Range	2.00000

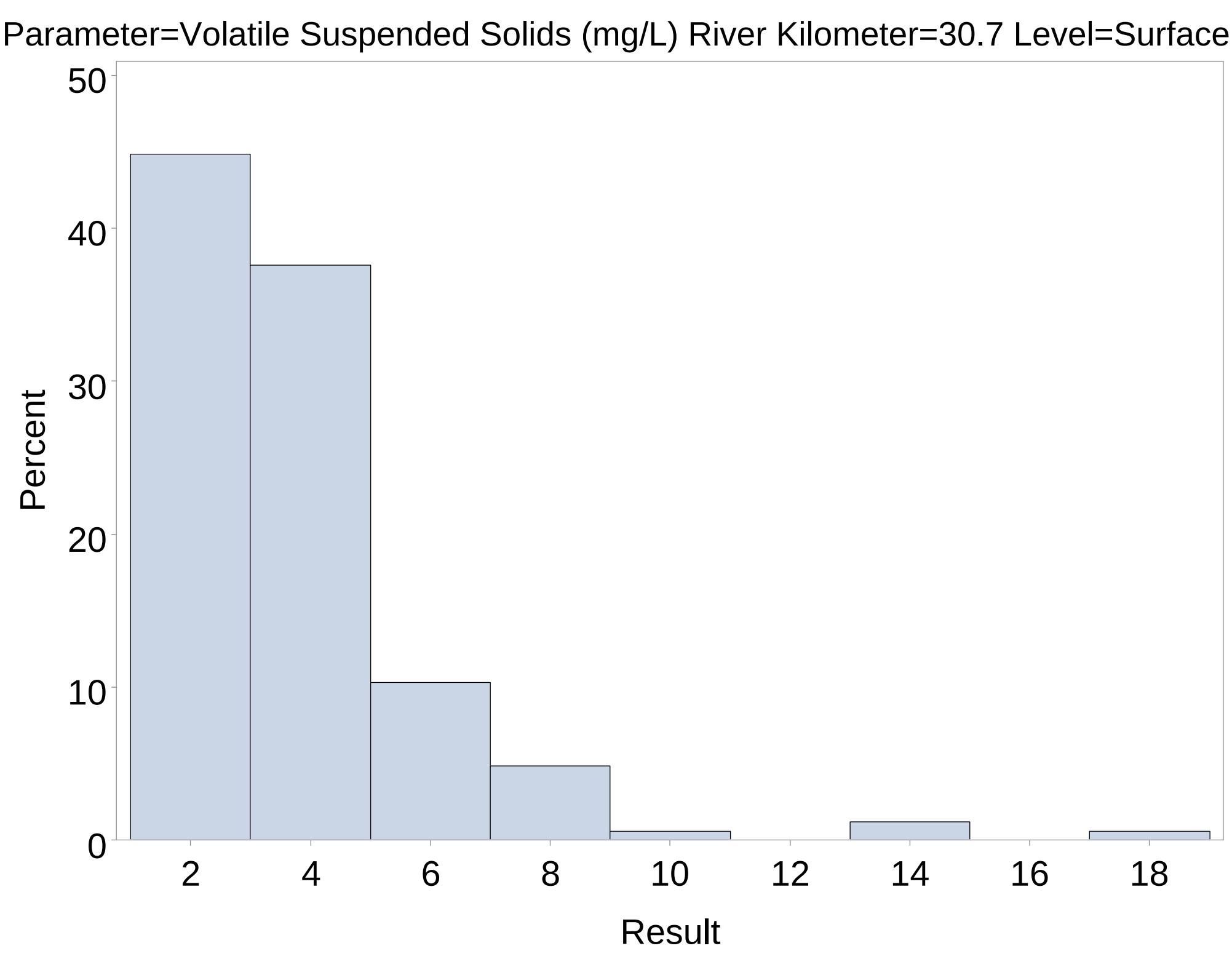
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.78725	**Pr > |t|**	<.0001
Sign	**M**	82.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6847.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.00
99%	14.00
95%	7.00
90%	5.67
75% Q3	4.00
50% Median	3.00
25% Q1	2.00
10%	1.40
5%	1.00
1%	1.00
0% Min	1.00

The UNIVARIATE Procedure
Variable: UseResult (Result)

Parameter=Volatile Suspended Solids (mg/L) River Kilometer=30.7 Level=Surface

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1	100215	8.67	100298
1	100213	10.30	100327
1	100212	13.00	100173
1	100211	14.00	100328
1	100208	18.00	100172


Parameter=Volatile Suspended Solids (mg/L) River Kilometer=30.7 Level=Surface
Percent
0
10
20
30
40
50
2
4
6
8
10
12
14
16
18
Result

APPENDIX C

IWR Run 56 Data Water Quality Summary Statistics

The UNIVARIATE Procedure
Variable: Result

Parameter=Chlorophyll a (ug/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	89	**Sum Weights**	89
Mean	10.0649213	**Sum Observations**	895.778
Std Deviation	10.993148	**Variance**	120.849303
Skewness	3.93500125	**Kurtosis**	21.5006427
Uncorrected SS	19650.6738	**Corrected SS**	10634.7387
Coeff Variation	109.222394	**Std Error Mean**	1.16527136

Basic Statistical Measures			
Location		**Variability**	
Mean	10.06492	**Std Deviation**	10.99315
Median	7.00000	**Variance**	120.84930
Mode	1.00000	**Range**	81.10000
		Interquartile Range	7.33000

Note: The mode displayed is the smallest of 11 modes with a count of 2.

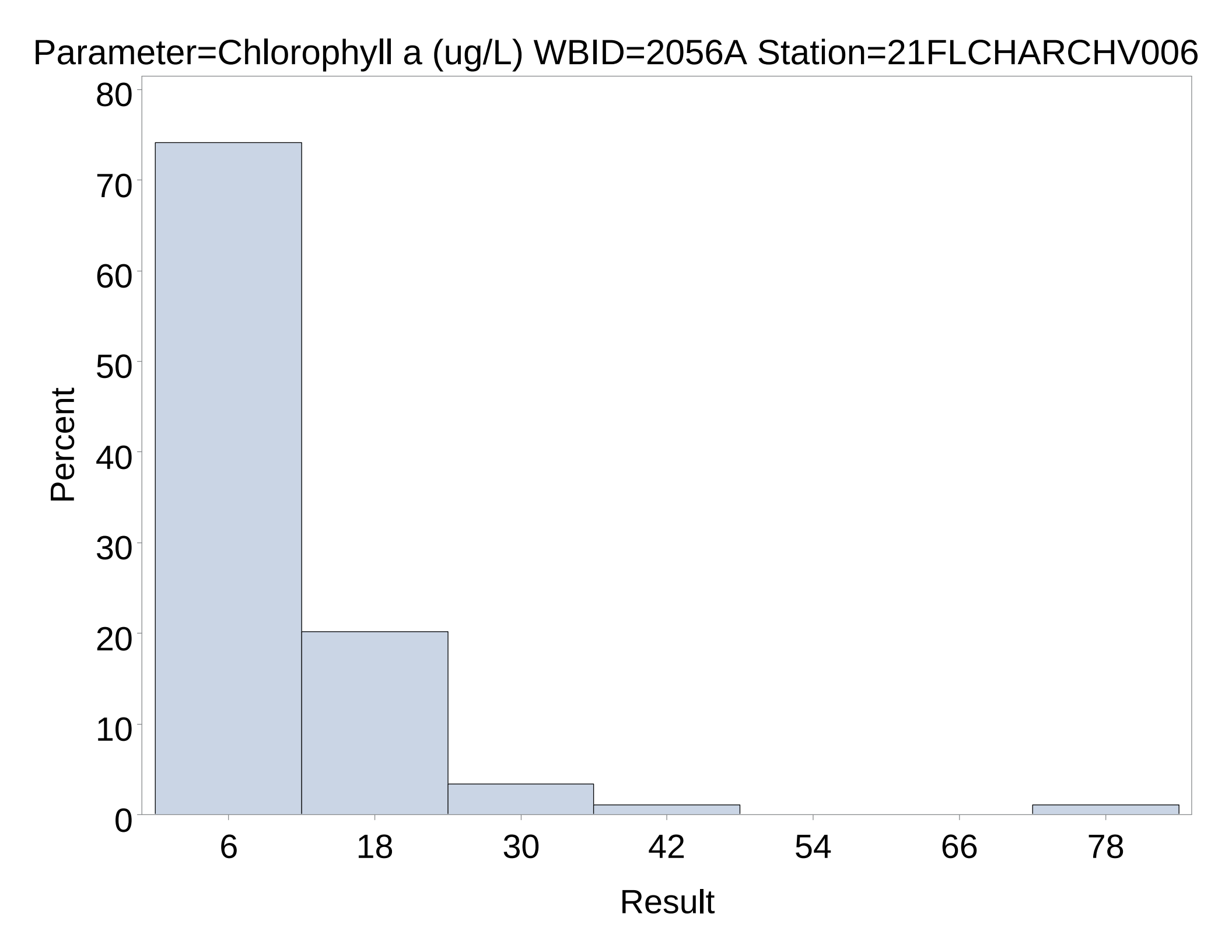
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.637406	**Pr > |t|**	<.0001
Sign	**M**	44.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2002.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	82.10
99%	82.10
95%	27.20
90%	20.00
75% Q3	12.00
50% Median	7.00
25% Q1	4.67
10%	2.50
5%	1.72
1%	1.00
0% Min	1.00

The UNIVARIATE Procedure
Variable: Result

Parameter=Chlorophyll a (ug/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	21	27.200	68
1.00	7	30.669	30
1.30	20	33.400	6
1.60	13	47.000	51
1.72	58	82.100	2


Parameter=Chlorophyll a (ug/L) WBID=2056A Station=21FLCHARCHV006
Percent
80
70
60
50
40
30
20
10
0
6
18
30
42
54
66
78
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Chlorophyll a (ug/L) WBID=2056B Station=21FLCHARCHV013

Moments			
N	70	**Sum Weights**	70
Mean	12.5413571	**Sum Observations**	877.895
Std Deviation	11.8393029	**Variance**	140.169093
Skewness	1.81968008	**Kurtosis**	3.29222525
Uncorrected SS	20681.6622	**Corrected SS**	9671.66743
Coeff Variation	94.4020872	**Std Error Mean**	1.41506735

Basic Statistical Measures			
Location		**Variability**	
Mean	12.54136	**Std Deviation**	11.83930
Median	8.88500	**Variance**	140.16909
Mode	1.16000	**Range**	53.68500
		Interquartile Range	10.11200

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

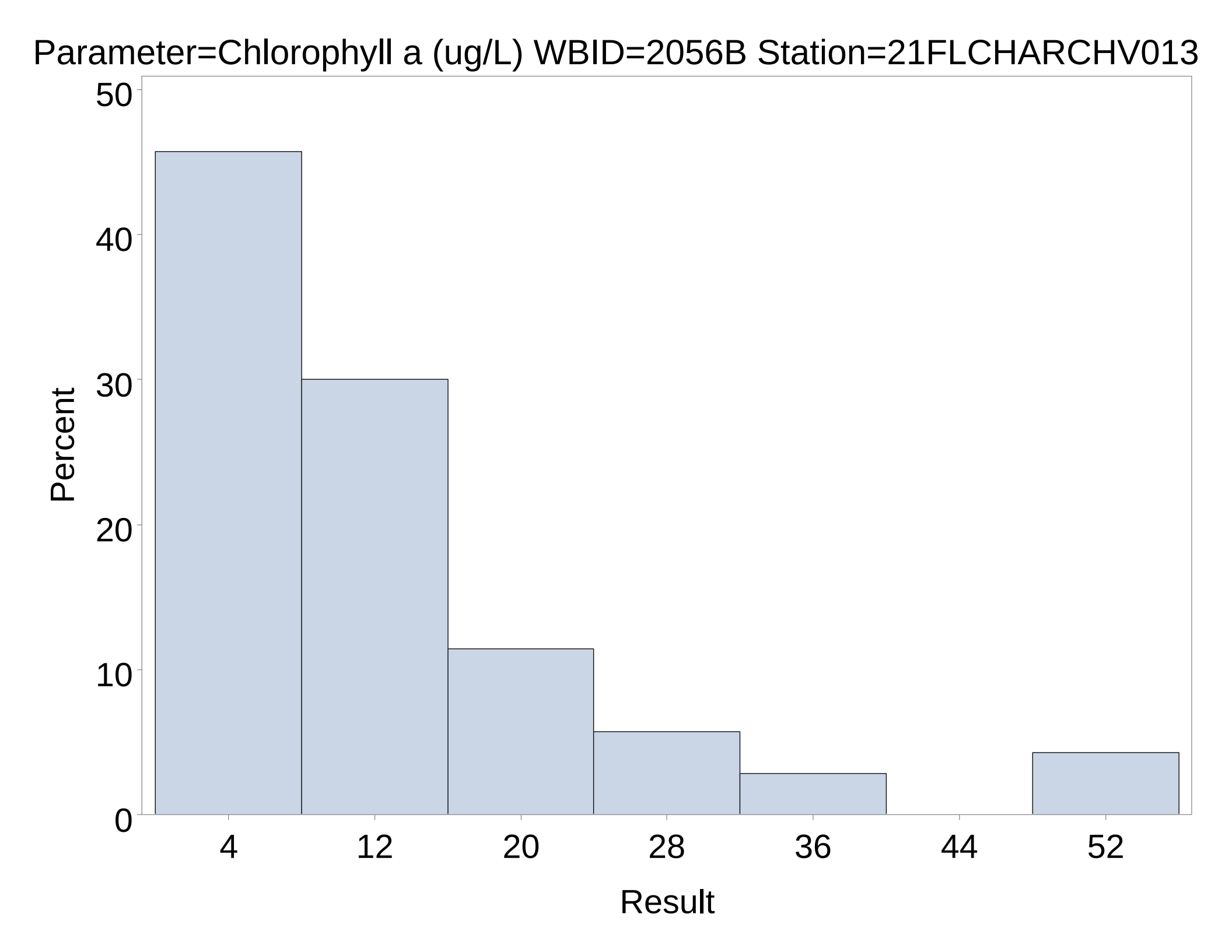
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.862728	**Pr > |t|**	<.0001
Sign	**M**	35	**Pr >= |M|**	<.0001
Signed Rank	**S**	1242.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	53.700
99%	53.700
95%	39.800
90%	28.908
75% Q3	15.512
50% Median	8.885
25% Q1	5.400
10%	1.590
5%	1.160
1%	0.015
0% Min	0.015

The UNIVARIATE Procedure
Variable: Result

Parameter=Chlorophyll a (ug/L) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.015	103	36.2	117
0.500	92	39.8	139
1.106	99	48.0	157
1.160	143	50.7	119
1.160	135	53.7	105


Parameter=Chlorophyll a (ug/L) WBID=2056B Station=21FLCHARCHV013
Percent
50
40
30
20
10
0
4
12
20
28
36
44
52
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Corrected Chlorophyll a (ug/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	108	**Sum Weights**	108
Mean	9.80268519	**Sum Observations**	1058.69
Std Deviation	15.3391855	**Variance**	235.29061
Skewness	4.35746293	**Kurtosis**	21.7551203
Uncorrected SS	35554.1001	**Corrected SS**	25176.0953
Coeff Variation	156.479425	**Std Error Mean**	1.47601381

Basic Statistical Measures			
Location		**Variability**	
Mean	9.802685	**Std Deviation**	15.33919
Median	5.500000	**Variance**	235.29061
Mode	5.500000	**Range**	109.26000
		Interquartile Range	6.55000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

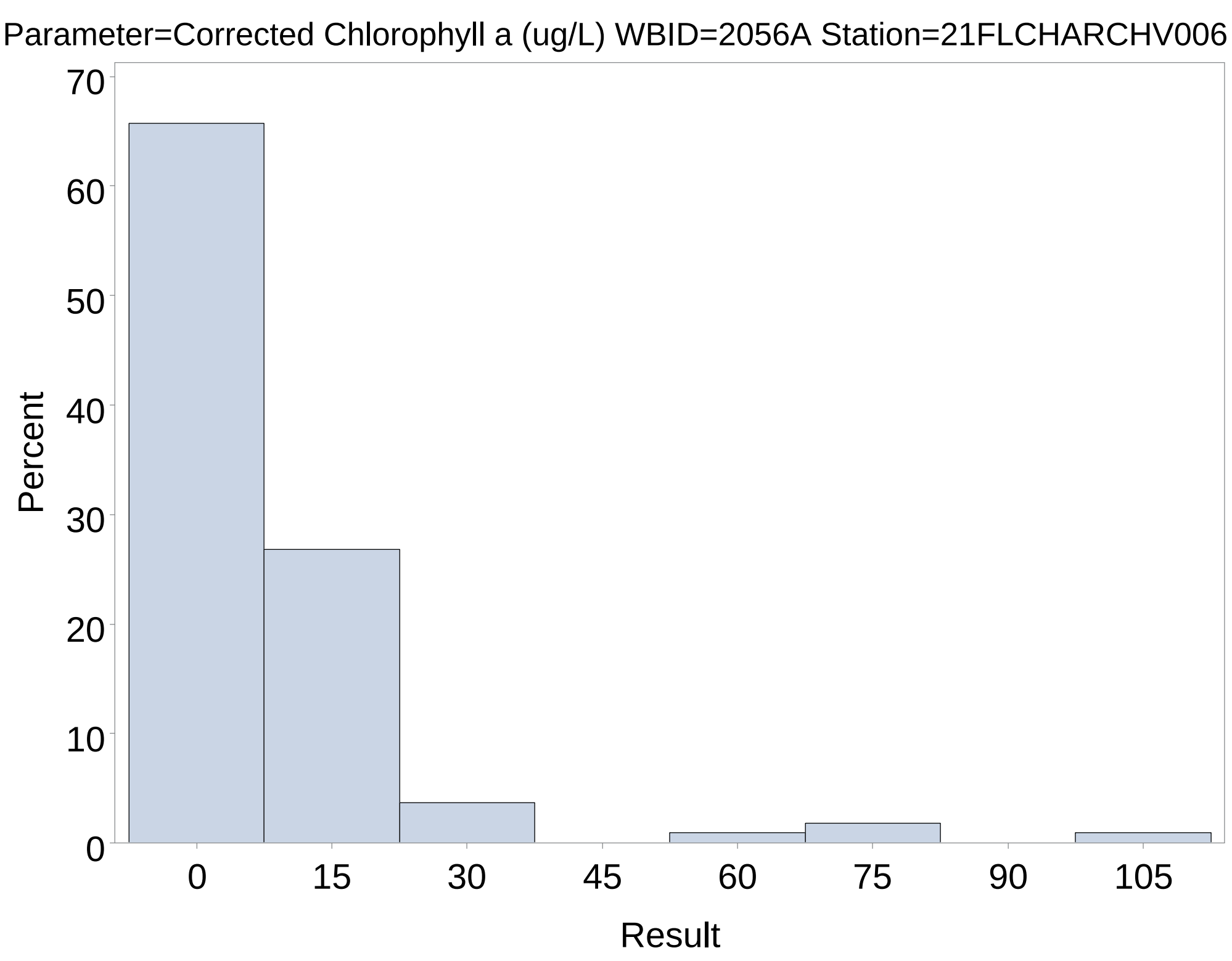
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	6.641323	**Pr > |t|**	<.0001
Sign	**M**	54	**Pr >= |M|**	<.0001
Signed Rank	**S**	2943	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	110.00
99%	73.00
95%	30.00
90%	17.00
75% Q3	9.85
50% Median	5.50
25% Q1	3.30
10%	1.90
5%	1.70
1%	0.85
0% Min	0.74

The UNIVARIATE Procedure
Variable: Result

Parameter=Corrected Chlorophyll a (ug/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.74	177	32	166
0.85	214	65	226
1.10	179	69	164
1.20	239	73	230
1.60	180	110	182


Parameter=Corrected Chlorophyll a (ug/L) WBID=2056A Station=21FLCHARCHV006
Percent
70
60
50
40
30
20
10
0
0
15
30
45
60
75
90
105
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Corrected Chlorophyll a (ug/L) WBID=2056B Station=21FLCHARCHV013

Moments			
N	108	**Sum Weights**	108
Mean	7.00046296	**Sum Observations**	756.05
Std Deviation	6.27169318	**Variance**	39.3341353
Skewness	2.96025704	**Kurtosis**	13.1206264
Uncorrected SS	9501.4525	**Corrected SS**	4208.75248
Coeff Variation	89.5896916	**Std Error Mean**	0.60349396

Basic Statistical Measures			
Location		**Variability**	
Mean	7.00046	**Std Deviation**	6.27169
Median	5.25000	**Variance**	39.33414
Mode	11.00000	**Range**	43.45000
		Interquartile Range	6.60000

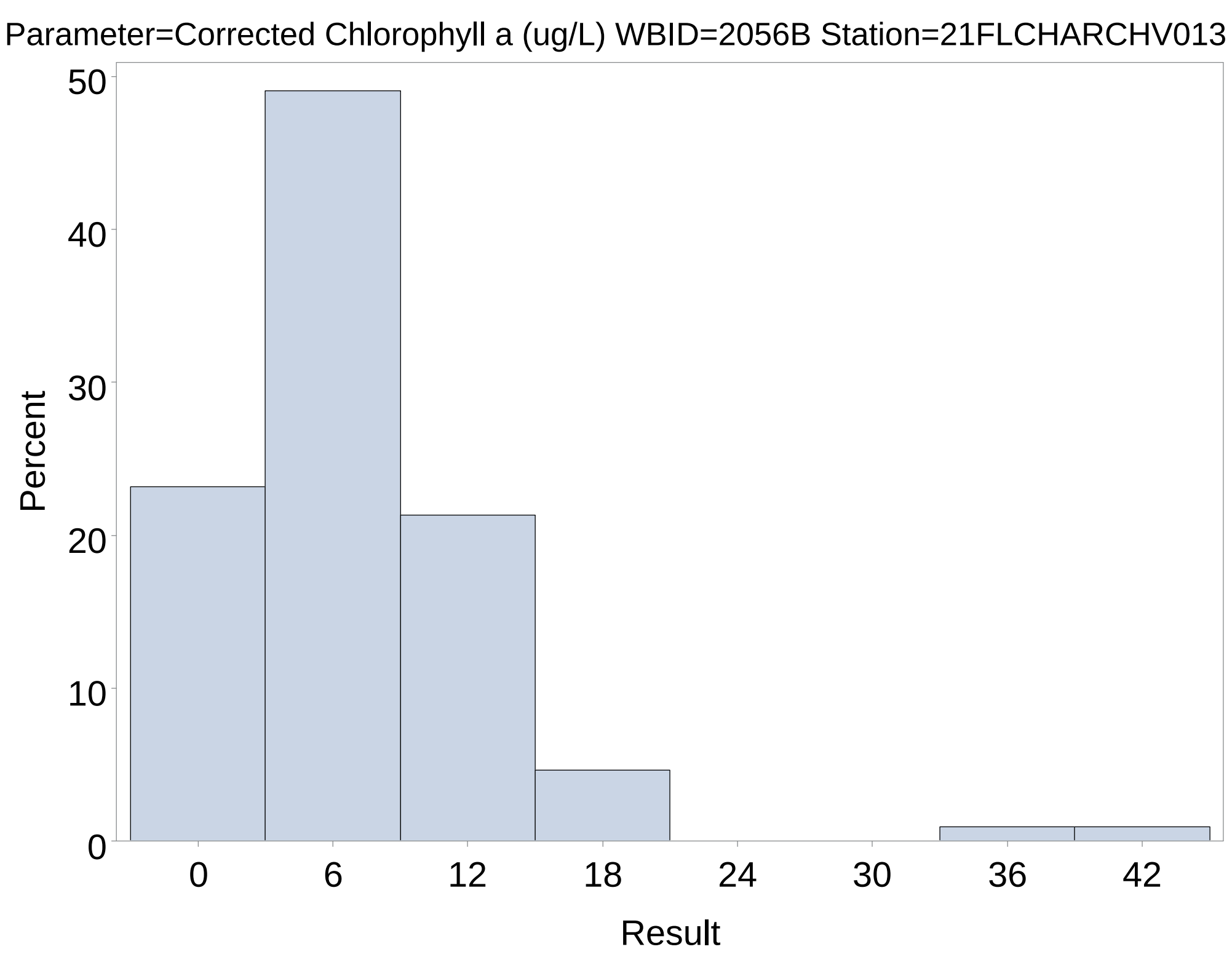
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.59989	**Pr > |t|**	<.0001
Sign	**M**	54	**Pr >= |M|**	<.0001
Signed Rank	**S**	2943	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	44.00
99%	34.00
95%	18.00
90%	13.00
75% Q3	9.60
50% Median	5.25
25% Q1	3.00
10%	2.10
5%	1.60
1%	1.20
0% Min	0.55

The UNIVARIATE Procedure
Variable: Result

Parameter=Corrected Chlorophyll a (ug/L) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.55	292	19	299
1.20	366	20	317
1.30	293	20	361
1.30	288	34	287
1.50	295	44	373


Parameter=Corrected Chlorophyll a (ug/L) WBID=2056B Station=21FLCHARCHV013
Percent
50
40
30
20
10
0
0
6
12
18
24
30
36
42
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Color (pcu) WBID=2056A Station=21FLCHARCHV006

Moments			
N	203	**Sum Weights**	203
Mean	70.129064	**Sum Observations**	14236.2
Std Deviation	63.8508573	**Variance**	4076.93197
Skewness	1.77538585	**Kurtosis**	2.97724727
Uncorrected SS	1821911.64	**Corrected SS**	823540.259
Coeff Variation	91.0476393	**Std Error Mean**	4.48145163

Basic Statistical Measures			
Location		**Variability**	
Mean	70.12906	**Std Deviation**	63.85086
Median	48.00000	**Variance**	4077
Mode	40.00000	**Range**	310.80000
		Interquartile Range	62.00000

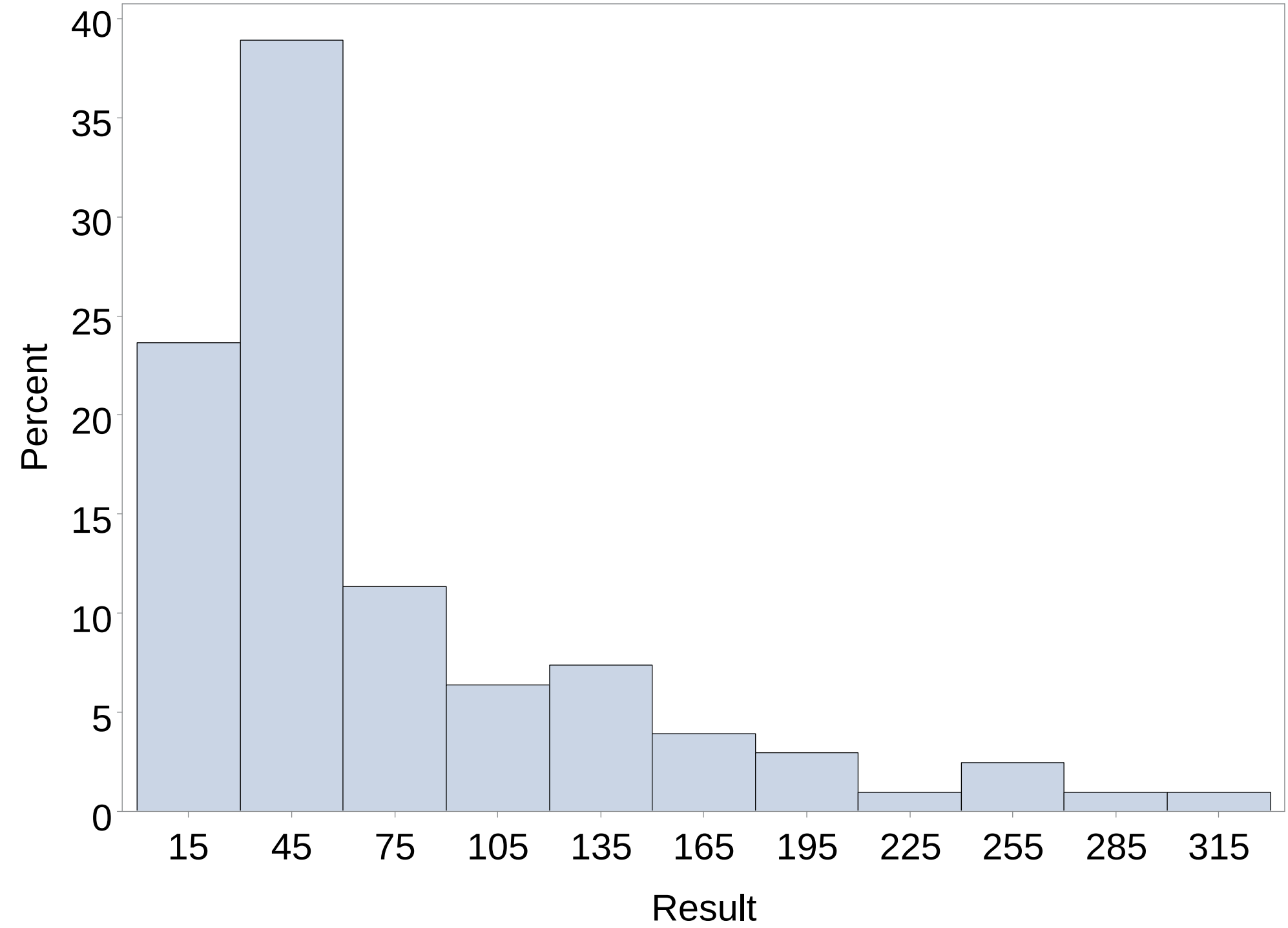
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.64874	**Pr > |t|**	<.0001
Sign	**M**	101.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10353	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	320.0
99%	290.0
95%	220.0
90%	160.0
75% Q3	92.0
50% Median	48.0
25% Q1	30.0
10%	17.0
5%	13.0
1%	10.0
0% Min	9.2

The UNIVARIATE Procedure
Variable: Result

Parameter=Color (pcu) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.2	531	250	576
10.0	403	270	570
10.0	392	290	514
10.0	391	320	433
11.0	562	320	454


Parameter=Color (pcu) WBID=2056A Station=21FLCHARCHV006
Percent
0
5
10
15
20
25
30
35
40
15
45
75
105
135
165
195
225
255
285
315
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Color (pcu) WBID=2056B Station=21FLCHARCHV013

Moments			
N	184	**Sum Weights**	184
Mean	123.201087	**Sum Observations**	22669
Std Deviation	92.7984348	**Variance**	8611.54951
Skewness	1.30529363	**Kurtosis**	1.37724704
Uncorrected SS	4368759	**Corrected SS**	1575913.56
Coeff Variation	75.3227403	**Std Error Mean**	6.84119138

Basic Statistical Measures			
Location		**Variability**	
Mean	123.2011	**Std Deviation**	92.79843
Median	85.0000	**Variance**	8612
Mode	60.0000	**Range**	480.00000
		Interquartile Range	100.00000

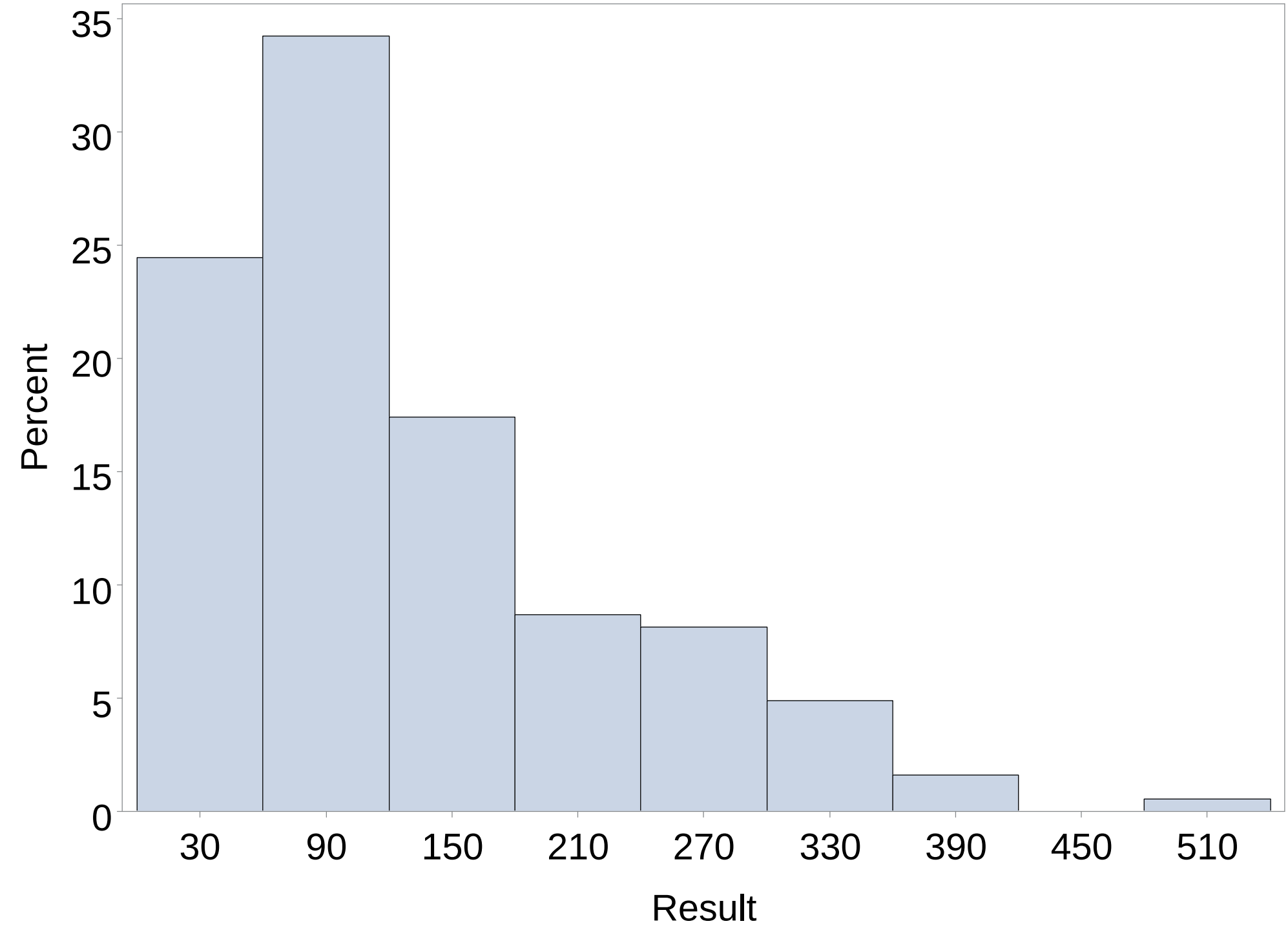
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.00872	**Pr > |t|**	<.0001
Sign	**M**	92	**Pr >= |M|**	<.0001
Signed Rank	**S**	8510	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	400
95%	310
90%	250
75% Q3	160
50% Median	85
25% Q1	60
10%	38
5%	29
1%	22
0% Min	20

The UNIVARIATE Procedure
Variable: Result

Parameter=Color (pcu) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	609	350	709
22	587	370	754
23	696	400	615
23	589	400	660
23	588	500	682


Parameter=Color (pcu) WBID=2056B Station=21FLCHARCHV013
35
30
25
20
15
10
5
0
Percent
30
90
150
210
270
330
390
450
510
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Color (pcu) WBID=2056C2 Station=112WRD 02297460

Moments			
N	48	**Sum Weights**	48
Mean	119.826389	**Sum Observations**	5751.66667
Std Deviation	87.1252458	**Variance**	7590.80846
Skewness	0.79492437	**Kurtosis**	-0.3341199
Uncorrected SS	1045969.44	**Corrected SS**	356767.998
Coeff Variation	72.7095648	**Std Error Mean**	12.575446

Basic Statistical Measures			
Location		**Variability**	
Mean	119.8264	**Std Deviation**	87.12525
Median	97.5000	**Variance**	7591
Mode	35.0000	**Range**	300.00000
		Interquartile Range	140.00000

Note: The mode displayed is the smallest of 4 modes with a count of 4.

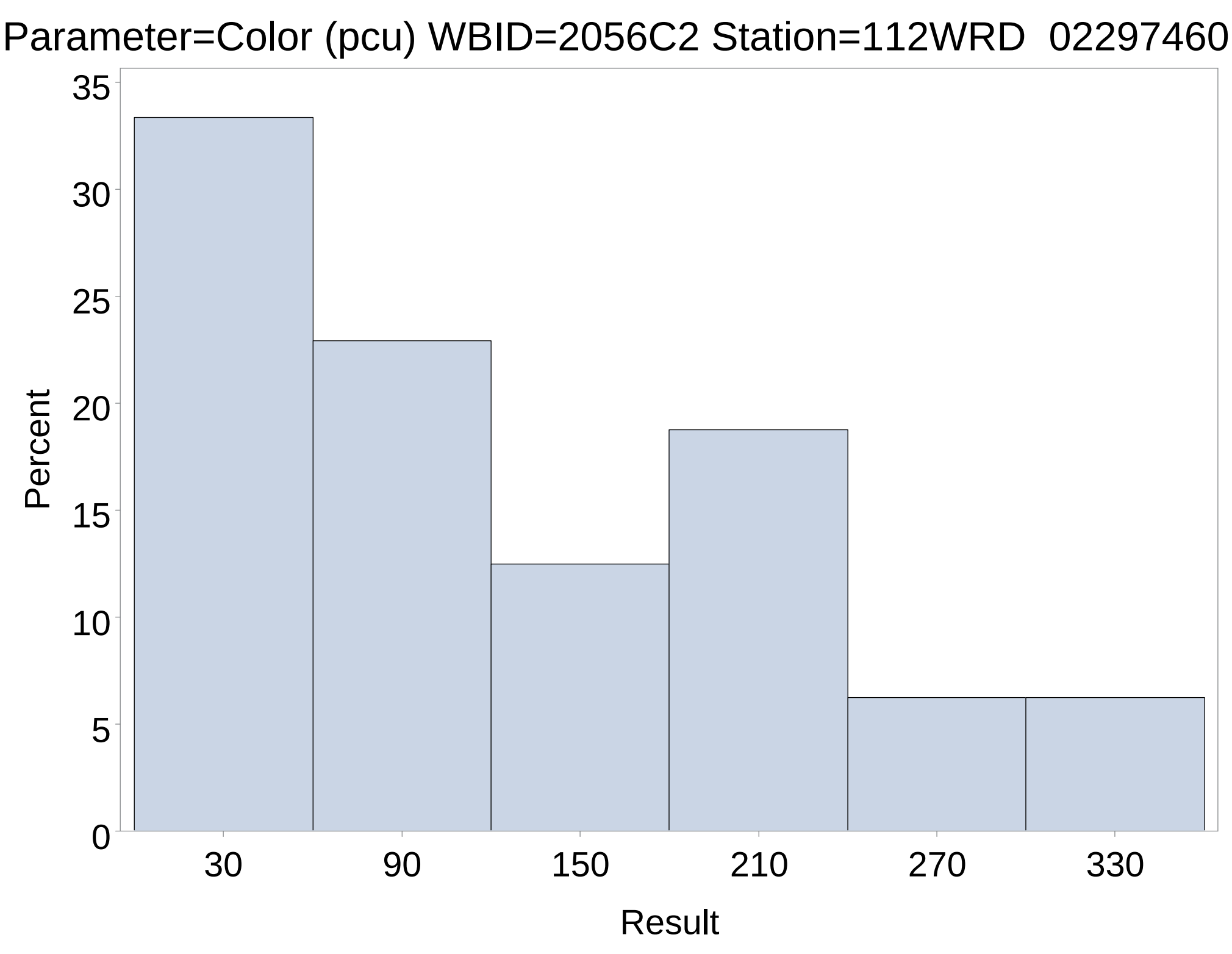
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.5286	**Pr > |t|**	<.0001
Sign	**M**	24	**Pr >= |M|**	<.0001
Signed Rank	**S**	588	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	320.0
99%	320.0
95%	320.0
90%	240.0
75% Q3	180.0
50% Median	97.5
25% Q1	40.0
10%	30.0
5%	30.0
1%	20.0
0% Min	20.0

The UNIVARIATE Procedure
Variable: Result

Parameter=Color (pcu) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	808	240	781
25	809	260	776
30	810	320	775
30	806	320	789
30	772	320	802


Parameter=Color (pcu) WBID=2056C2 Station=112WRD 02297460
35
30
25
20
15
10
5
0
Percent
30
90
150
210
270
330
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Conductivity (us/cm) WBID=2056A Station=21FLCHARCHV006

Moments			
N	5	**Sum Weights**	5
Mean	25074	**Sum Observations**	125370
Std Deviation	13446.5267	**Variance**	180809080
Skewness	0.48056682	**Kurtosis**	-2.5446081
Uncorrected SS	3866763700	**Corrected SS**	723236320
Coeff Variation	53.6273697	**Std Error Mean**	6013.46955

Basic Statistical Measures			
Location		**Variability**	
Mean	25074.00	**Std Deviation**	13447
Median	19390.00	**Variance**	180809080
Mode	.	**Range**	30640
		Interquartile Range	20660

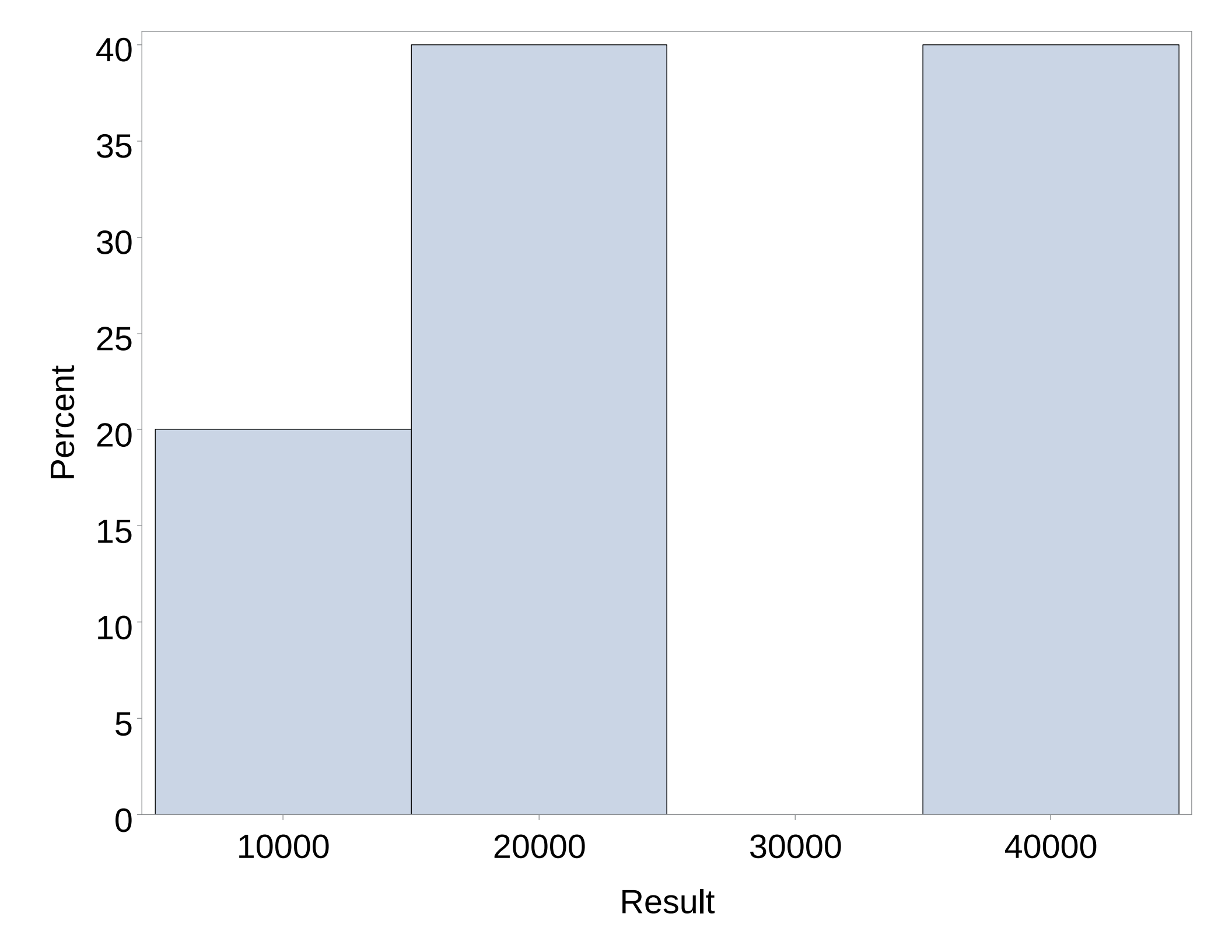
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	4.169639	**Pr > |t|**	0.0140
Sign	**M**	2.5	**Pr >= |M|**	0.0625
Signed Rank	**S**	7.5	**Pr >= |S|**	0.0625

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41900
99%	41900
95%	41900
90%	41900
75% Q3	36740
50% Median	19390
25% Q1	16080
10%	11260
5%	11260
1%	11260
0% Min	11260

The UNIVARIATE Procedure
Variable: Result

Parameter=Conductivity (us/cm) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11260	812	11260	812
16080	811	16080	811
19390	813	19390	813
36740	814	36740	814
41900	815	41900	815


40
35
30
25
20
15
10
5
0
Percent
10000
20000
30000
40000
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Conductivity (us/cm) WBID=2056C2 Station=112WRD 02297460

Moments			
N	164	**Sum Weights**	164
Mean	12391.4309	**Sum Observations**	2032194.67
Std Deviation	11311.7421	**Variance**	127955509
Skewness	0.66107717	**Kurtosis**	-0.6252686
Uncorrected SS	4.60385E10	**Corrected SS**	2.08567E10
Coeff Variation	91.286811	**Std Error Mean**	883.298658

Basic Statistical Measures			
Location		**Variability**	
Mean	12391.43	**Std Deviation**	11312
Median	9135.00	**Variance**	127955509
Mode	.	**Range**	40179
		Interquartile Range	19362

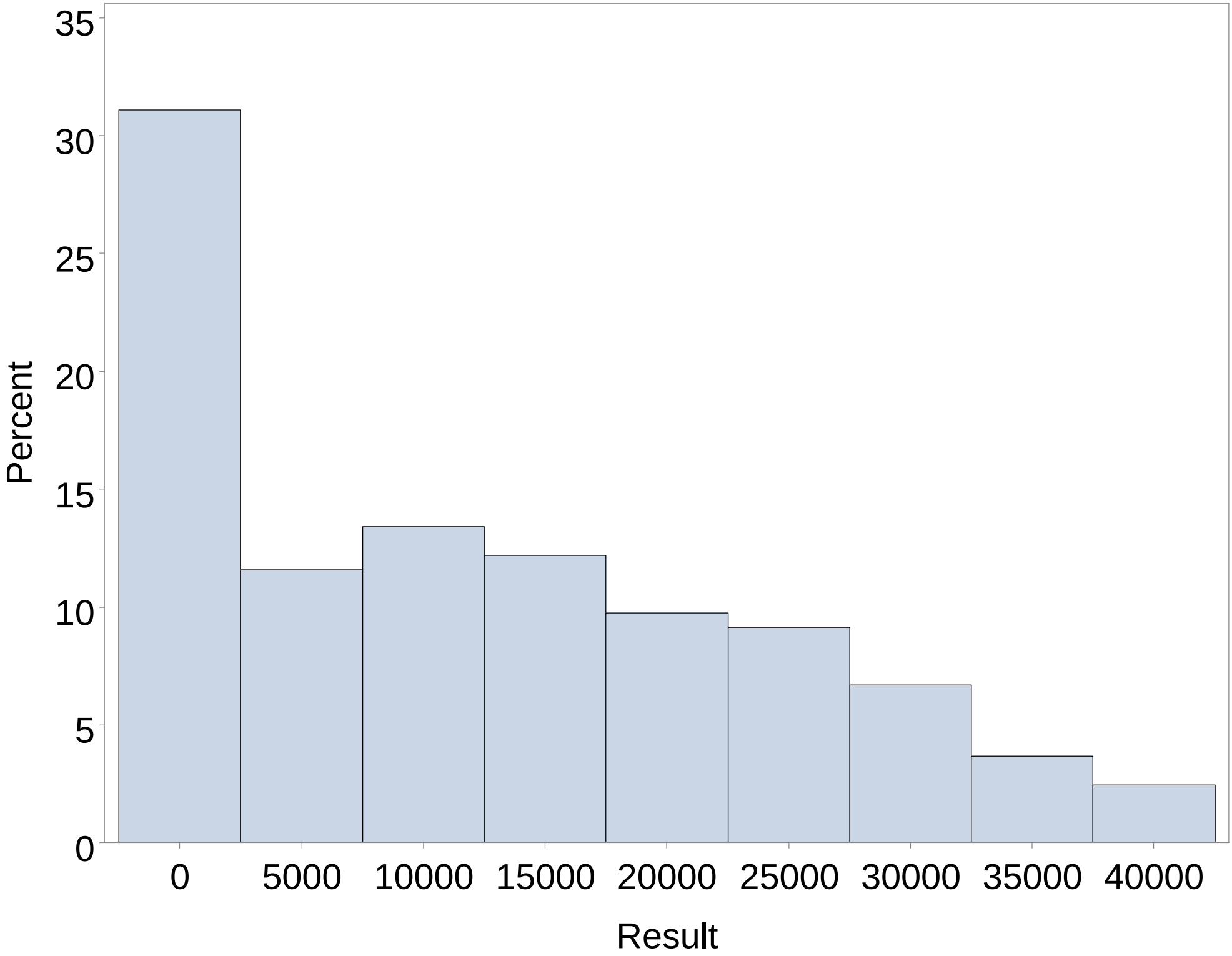
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.02859	**Pr > |t|**	<.0001
Sign	**M**	82	**Pr >= |M|**	<.0001
Signed Rank	**S**	6765	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40266.6667
99%	40055.0000
95%	33126.9231
90%	29250.0000
75% Q3	20415.8696
50% Median	9135.0000
25% Q1	1054.0000
10%	308.4783
5%	195.7000
1%	89.6000
0% Min	87.4348

The UNIVARIATE Procedure
Variable: Result

Parameter=Conductivity (us/cm) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
87.4348	855	37315.4	904
89.6000	854	38400.0	974
105.8750	846	39450.0	939
112.1600	847	40055.0	907
123.9000	852	40266.7	906


35
30
25
20
15
10
5
0
Percent
0
5000
10000
15000
20000
25000
30000
35000
40000
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	103	**Sum Weights**	103
Mean	5.61561165	**Sum Observations**	578.408
Std Deviation	1.55712707	**Variance**	2.42464471
Skewness	-0.5998694	**Kurtosis**	0.14179229
Uncorrected SS	3495.42846	**Corrected SS**	247.31376
Coeff Variation	27.7285391	**Std Error Mean**	0.15342829

Basic Statistical Measures			
Location		**Variability**	
Mean	5.615612	**Std Deviation**	1.55713
Median	5.750000	**Variance**	2.42464
Mode	5.700000	**Range**	7.50000
		Interquartile Range	2.20000

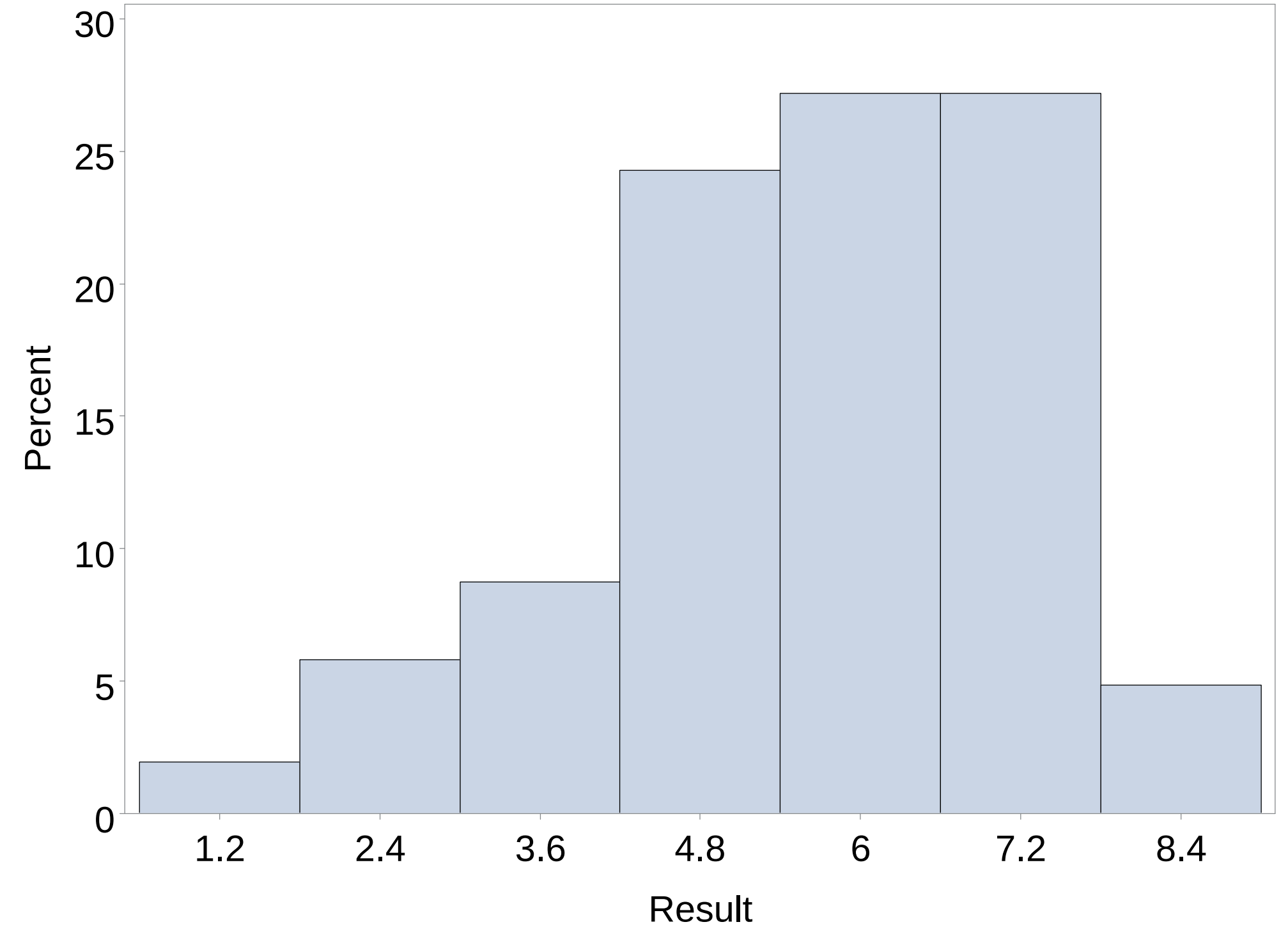
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.60089	**Pr > |t|**	<.0001
Sign	**M**	51.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2678	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.60
99%	8.60
95%	7.70
90%	7.38
75% Q3	6.80
50% Median	5.75
25% Q1	4.60
10%	3.20
5%	2.92
1%	1.20
0% Min	1.10

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.10	984	7.97	1077
1.20	985	8.00	1025
2.53	1073	8.10	1001
2.61	1062	8.60	987
2.70	994	8.60	1010


Parameter=Dissolved Oxygen (mg/L) WBID=2056A Station=21FLCHARCHV006
30
25
20
15
10
5
0
Percent
1.2
2.4
3.6
4.8
6
7.2
8.4
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056A Station=21FLSEAS60SEAS050

Moments			
N	228	**Sum Weights**	228
Mean	6.74846491	**Sum Observations**	1538.65
Std Deviation	1.71080006	**Variance**	2.92683684
Skewness	0.40627075	**Kurtosis**	0.97457677
Uncorrected SS	11047.9175	**Corrected SS**	664.391963
Coeff Variation	25.3509514	**Std Error Mean**	0.1133005

Basic Statistical Measures			
Location		**Variability**	
Mean	6.748465	**Std Deviation**	1.71080
Median	6.700000	**Variance**	2.92684
Mode	5.600000	**Range**	11.60000
		Interquartile Range	2.20000

Note: The mode displayed is the smallest of 5 modes with a count of 7.

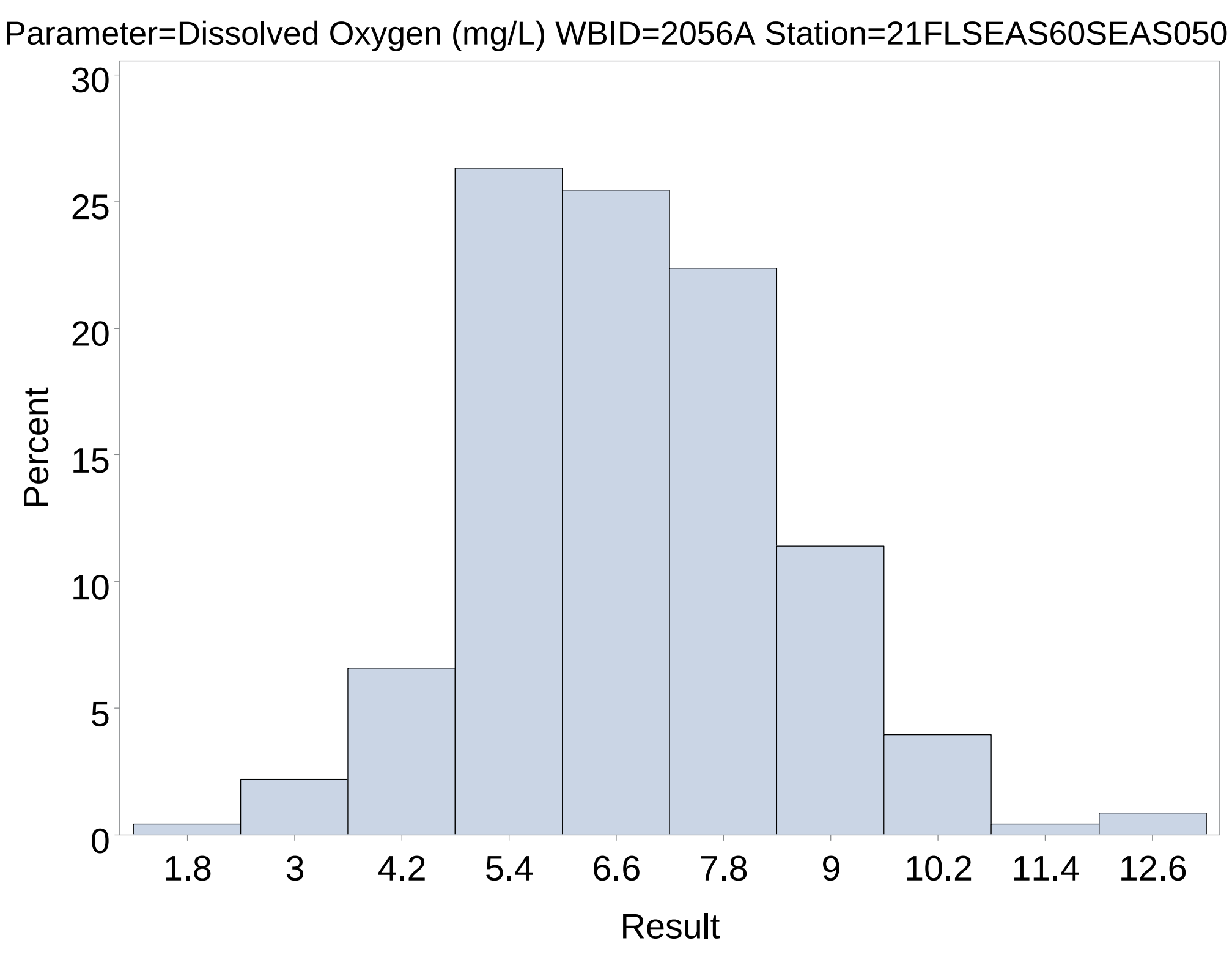
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	59.56253	**Pr > |t|**	<.0001
Sign	**M**	114	**Pr >= |M|**	<.0001
Signed Rank	**S**	13053	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.1
99%	11.3
95%	9.6
90%	8.9
75% Q3	7.8
50% Median	6.7
25% Q1	5.6
10%	4.8
5%	4.4
1%	2.9
0% Min	1.5

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056A Station=21FLSEAS60SEAS050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.50	1294	10.4	1106
2.80	1284	10.5	1140
2.90	1271	11.3	1139
3.20	1116	12.9	1143
3.35	1285	13.1	1287


Parameter=Dissolved Oxygen (mg/L) WBID=2056A Station=21FLSEAS60SEAS050
Percent
30
25
20
15
10
5
0
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056B Station=21FLCHARCHV013

Moments			
N	76	**Sum Weights**	76
Mean	6.00105263	**Sum Observations**	456.08
Std Deviation	1.68448574	**Variance**	2.83749221
Skewness	0.97495291	**Kurtosis**	3.76377725
Uncorrected SS	2949.772	**Corrected SS**	212.811916
Coeff Variation	28.0698378	**Std Error Mean**	0.19322377

Basic Statistical Measures			
Location		**Variability**	
Mean	6.001053	**Std Deviation**	1.68449
Median	5.710000	**Variance**	2.83749
Mode	4.400000	**Range**	11.30000
		Interquartile Range	2.30000

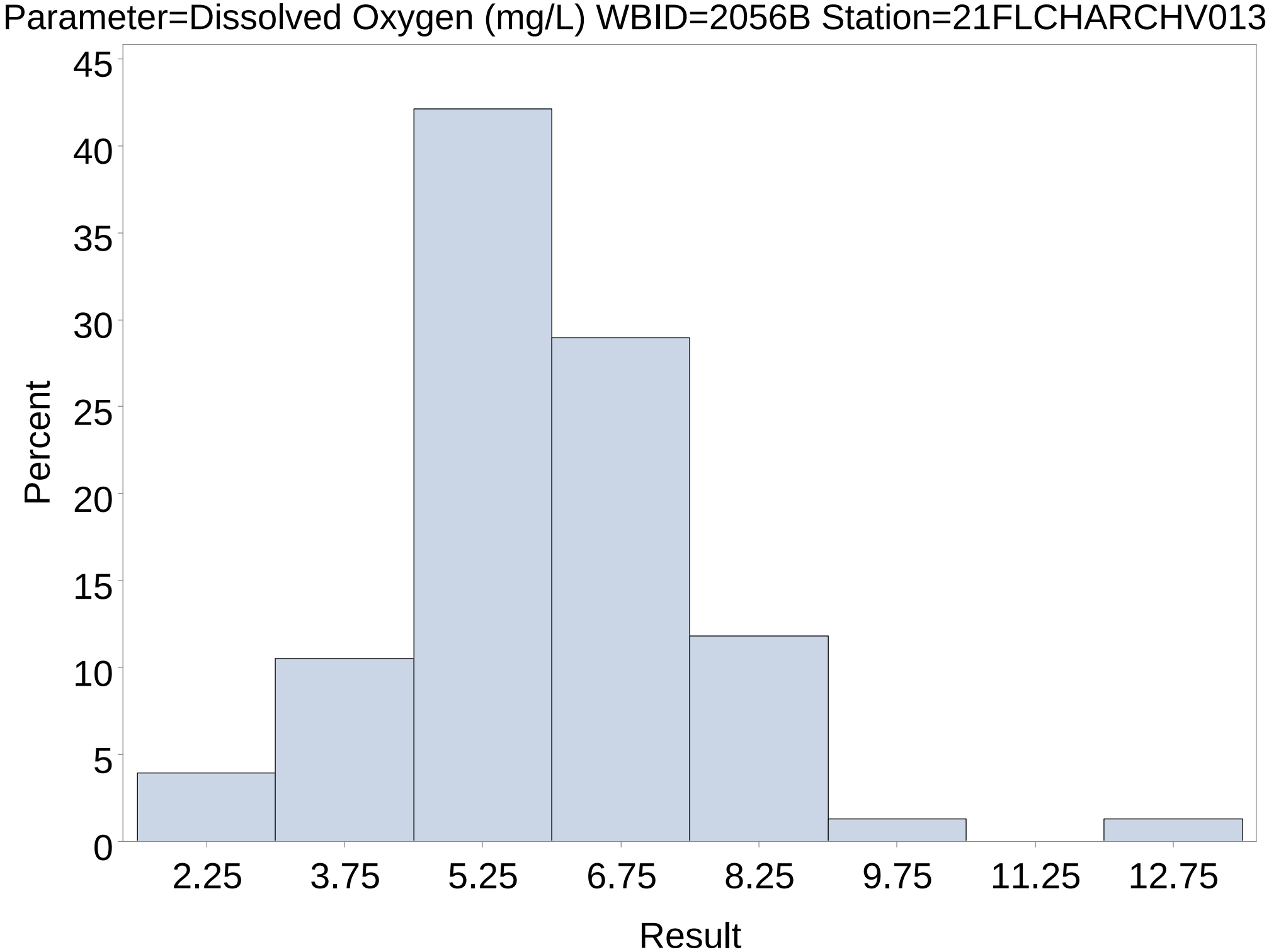
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.05753	**Pr > |t|**	<.0001
Sign	**M**	38	**Pr >= |M|**	<.0001
Signed Rank	**S**	1463	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.30
99%	13.30
95%	8.50
90%	8.00
75% Q3	7.10
50% Median	5.71
25% Q1	4.80
10%	4.40
5%	3.90
1%	2.00
0% Min	2.00

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.00	1315	8.4	1369
2.56	1386	8.5	1333
2.80	1314	8.5	1384
3.90	1312	9.6	1373
4.20	1379	13.3	1347


Parameter=Dissolved Oxygen (mg/L) WBID=2056B Station=21FLCHARCHV013
Percent
45
40
35
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056C2 Station=112WRD 02297460

Moments			
N	91	**Sum Weights**	91
Mean	5.91859903	**Sum Observations**	538.592512
Std Deviation	1.57009433	**Variance**	2.4651962
Skewness	0.41308597	**Kurtosis**	-0.2986826
Uncorrected SS	3409.58078	**Corrected SS**	221.867658
Coeff Variation	26.5281416	**Std Error Mean**	0.16459061

Basic Statistical Measures			
Location		**Variability**	
Mean	5.918599	**Std Deviation**	1.57009
Median	5.775000	**Variance**	2.46520
Mode	4.633333	**Range**	7.46364
		Interquartile Range	2.40417

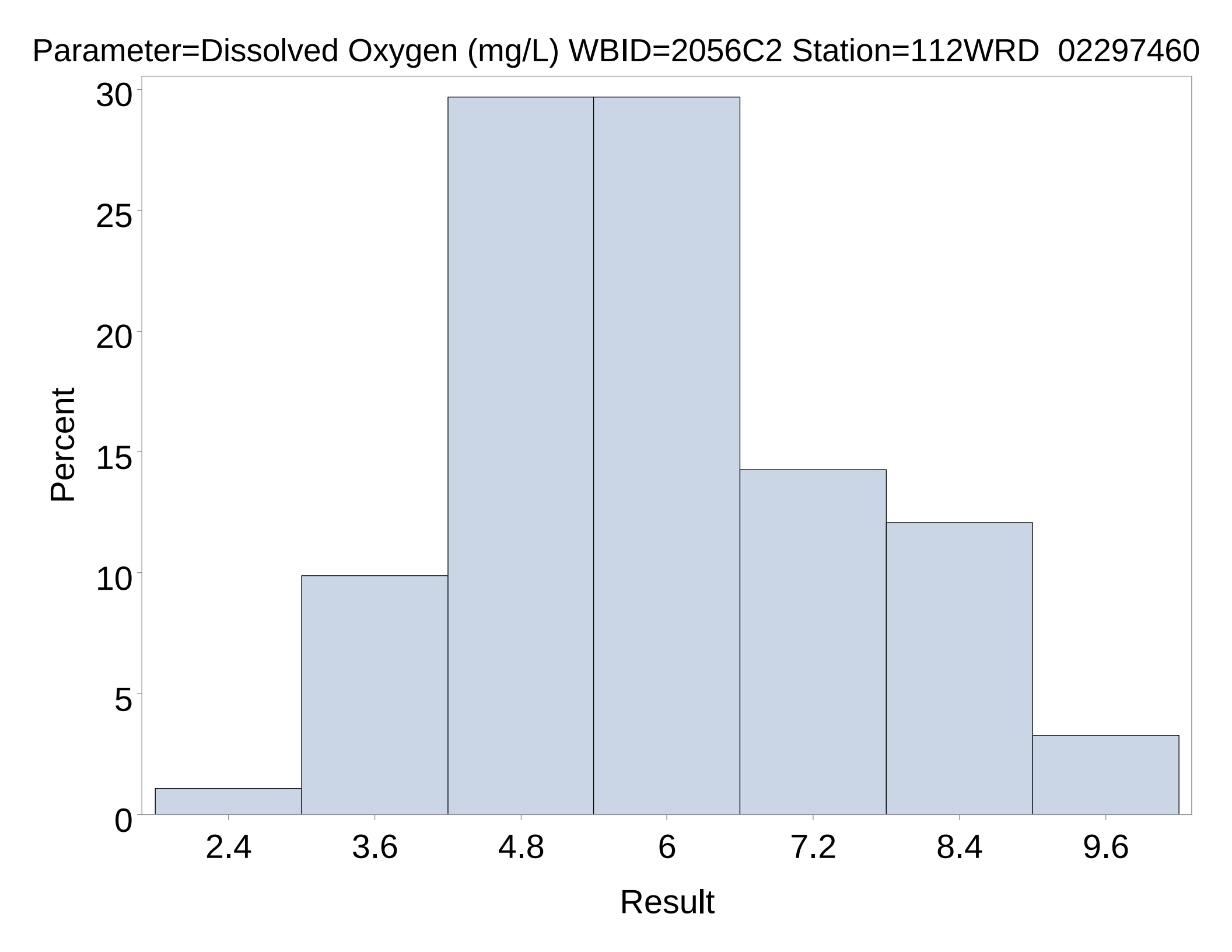
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.95952	**Pr > |t|**	<.0001
Sign	**M**	45.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2093	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.77273
99%	9.77273
95%	8.71000
90%	8.07500
75% Q3	7.03750
50% Median	5.77500
25% Q1	4.63333
10%	4.11250
5%	3.59643
1%	2.30909
0% Min	2.30909

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.30909	1452	8.71000	1467
3.46364	1408	8.90000	1440
3.51739	1409	9.52800	1397
3.59615	1453	9.62727	1466
3.59643	1411	9.77273	1396


Parameter=Dissolved Oxygen (mg/L) WBID=2056C2 Station=112WRD 02297460
Percent
30
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2065A Station=21FLSEAS60SEAS130

Moments			
N	232	**Sum Weights**	232
Mean	6.77952586	**Sum Observations**	1572.85
Std Deviation	1.46923759	**Variance**	2.15865908
Skewness	0.27095558	**Kurtosis**	1.37512828
Uncorrected SS	11161.8275	**Corrected SS**	498.650248
Coeff Variation	21.6716864	**Std Error Mean**	0.09646017

Basic Statistical Measures			
Location		**Variability**	
Mean	6.779526	**Std Deviation**	1.46924
Median	6.700000	**Variance**	2.15866
Mode	6.200000	**Range**	10.05000
		Interquartile Range	1.85000

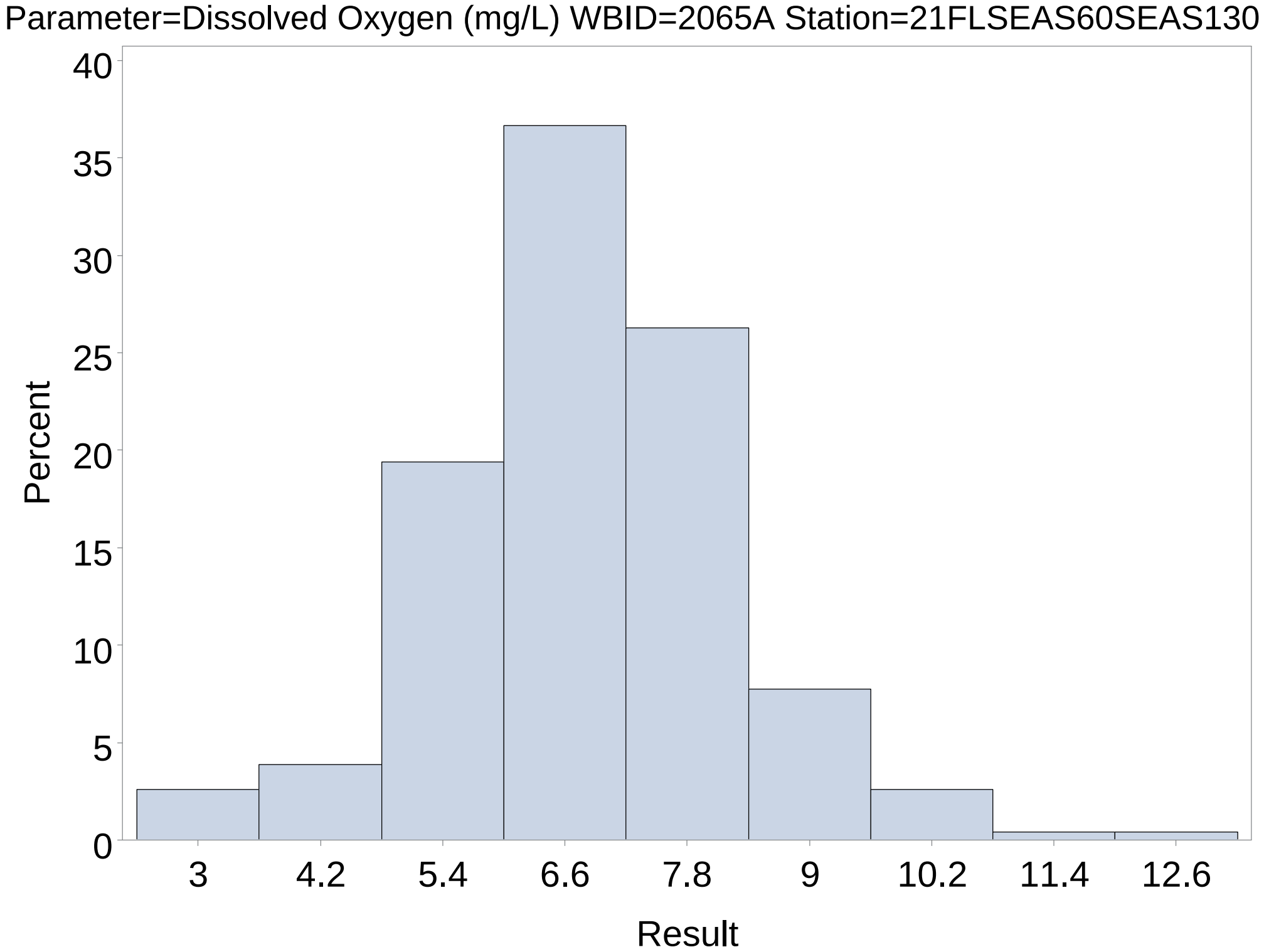
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	70.28316	**Pr > |t|**	<.0001
Sign	**M**	116	**Pr >= |M|**	<.0001
Signed Rank	**S**	13514	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.90
99%	10.70
95%	9.00
90%	8.40
75% Q3	7.75
50% Median	6.70
25% Q1	5.90
10%	5.10
5%	4.60
1%	3.10
0% Min	2.85

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen (mg/L) WBID=2065A Station=21FLSEAS60SEAS130

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.85	1705	9.90	1686
3.10	1683	10.05	1698
3.10	1508	10.70	1538
3.20	1695	11.40	1537
3.30	1684	12.90	1541


Parameter=Dissolved Oxygen (mg/L) WBID=2065A Station=21FLSEAS60SEAS130
Percent
0
5
10
15
20
25
30
35
40
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056A Station=21FLCHARCHV006

Moments			
N	229	**Sum Weights**	229
Mean	70.2731441	**Sum Observations**	16092.55
Std Deviation	17.6972378	**Variance**	313.192225
Skewness	-0.4658853	**Kurtosis**	0.00180941
Uncorrected SS	1202281.91	**Corrected SS**	71407.8273
Coeff Variation	25.1835008	**Std Error Mean**	1.16946639

Basic Statistical Measures			
Location		**Variability**	
Mean	70.27314	**Std Deviation**	17.69724
Median	72.50000	**Variance**	313.19223
Mode	66.30000	**Range**	93.70000
		Interquartile Range	25.00000

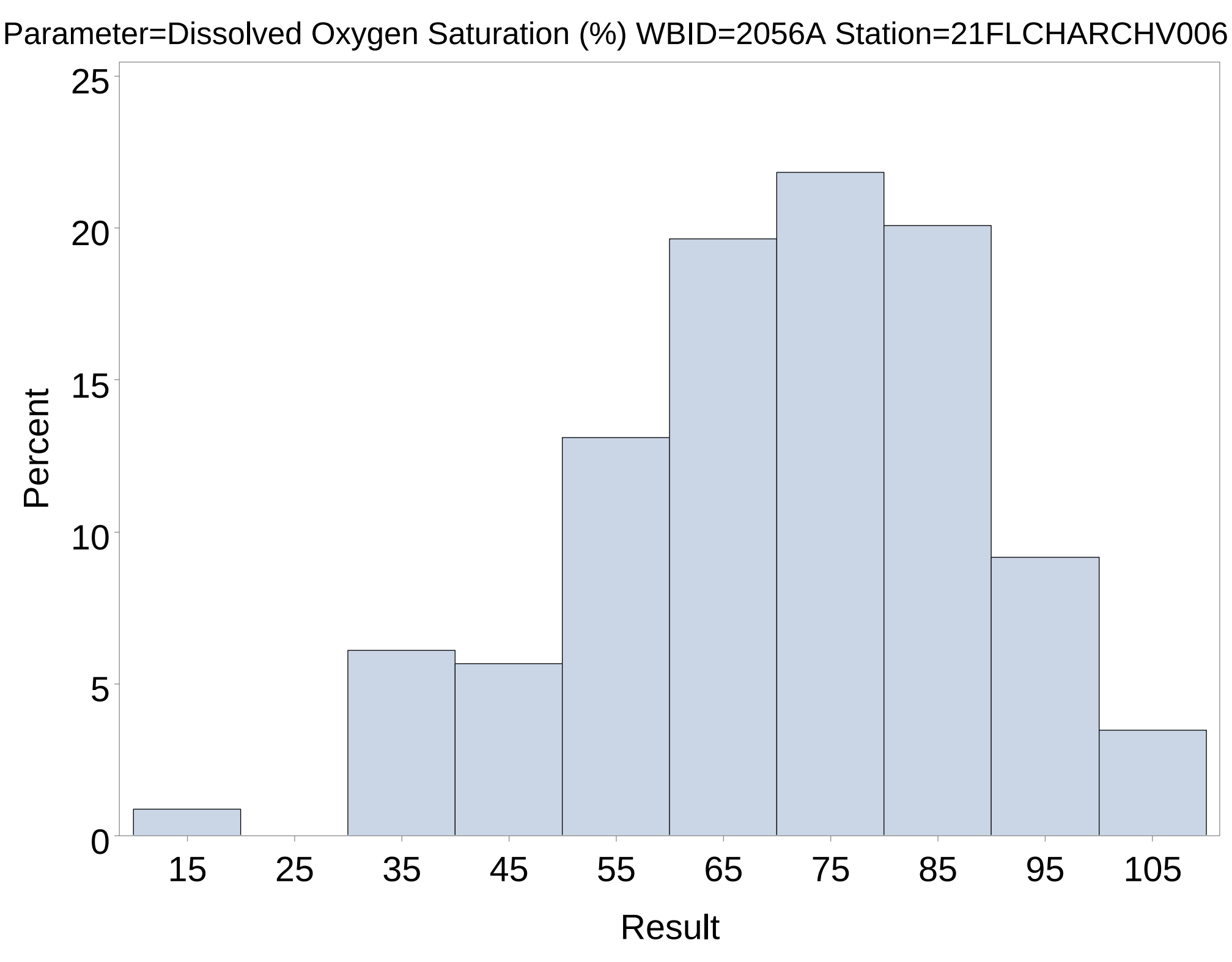
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	60.08992	**Pr > |t|**	<.0001
Sign	**M**	114.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	13167.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	107.5
99%	105.0
95%	96.3
90%	91.3
75% Q3	83.8
50% Median	72.5
25% Q1	58.8
10%	43.0
5%	37.5
1%	31.6
0% Min	13.8

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.8	1835	101.3	1856
15.0	1836	105.0	1714
31.6	1929	105.0	1723
32.6	1919	107.5	1838
33.8	1845	107.5	1865


Parameter=Dissolved Oxygen Saturation (%) WBID=2056A Station=21FLCHARCHV006
Percent
0
5
10
15
20
25
15
25
35
45
55
65
75
85
95
105
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056A Station=21FLSEAS60SEAS050

Moments			
N	222	**Sum Weights**	222
Mean	84.6398649	**Sum Observations**	18790.05
Std Deviation	21.4954215	**Variance**	462.053143
Skewness	0.39203469	**Kurtosis**	0.96046384
Uncorrected SS	1692501.04	**Corrected SS**	102113.745
Coeff Variation	25.3963324	**Std Error Mean**	1.44267823

Basic Statistical Measures			
Location		**Variability**	
Mean	84.63986	**Std Deviation**	21.49542
Median	83.80000	**Variance**	462.05314
Mode	71.30000	**Range**	144.95000
		Interquartile Range	28.15000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

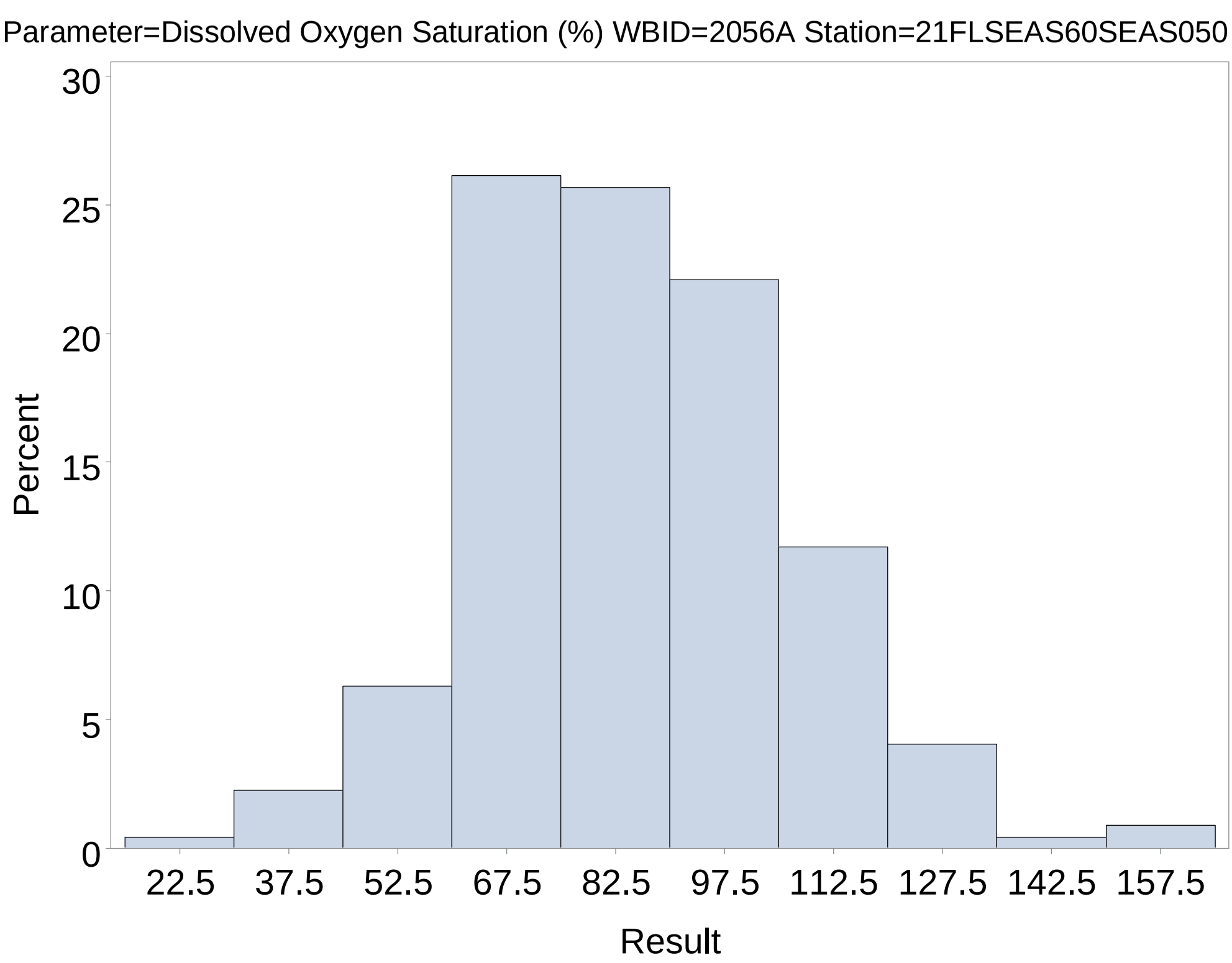
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.66857	**Pr > |t|**	<.0001
Sign	**M**	111	**Pr >= |M|**	<.0001
Signed Rank	**S**	12376.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	163.75
99%	141.30
95%	120.00
90%	111.30
75% Q3	98.15
50% Median	83.80
25% Q1	70.00
10%	60.05
5%	55.00
1%	36.30
0% Min	18.80

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056A Station=21FLSEAS60SEAS050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.8	2145	130.00	1961
35.0	2136	131.30	1994
36.3	2123	141.30	1993
40.0	1970	161.30	1997
41.9	2137	163.75	2139


Parameter=Dissolved Oxygen Saturation (%) WBID=2056A Station=21FLSEAS60SEAS050
Percent
30
25
20
15
10
5
0
22.5
37.5
52.5
67.5
82.5
97.5
112.5
127.5
142.5
157.5
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056B Station=21FLCHARCHV013

Moments			
N	181	**Sum Weights**	181
Mean	69.2187845	**Sum Observations**	12528.6
Std Deviation	20.019601	**Variance**	400.784423
Skewness	0.7076767	**Kurtosis**	2.62340953
Uncorrected SS	939355.66	**Corrected SS**	72141.1961
Coeff Variation	28.9222082	**Std Error Mean**	1.48804522

Basic Statistical Measures			
Location		**Variability**	
Mean	69.21878	**Std Deviation**	20.01960
Median	66.30000	**Variance**	400.78442
Mode	55.00000	**Range**	148.80000
		Interquartile Range	23.80000

Note: The mode displayed is the smallest of 4 modes with a count of 8.

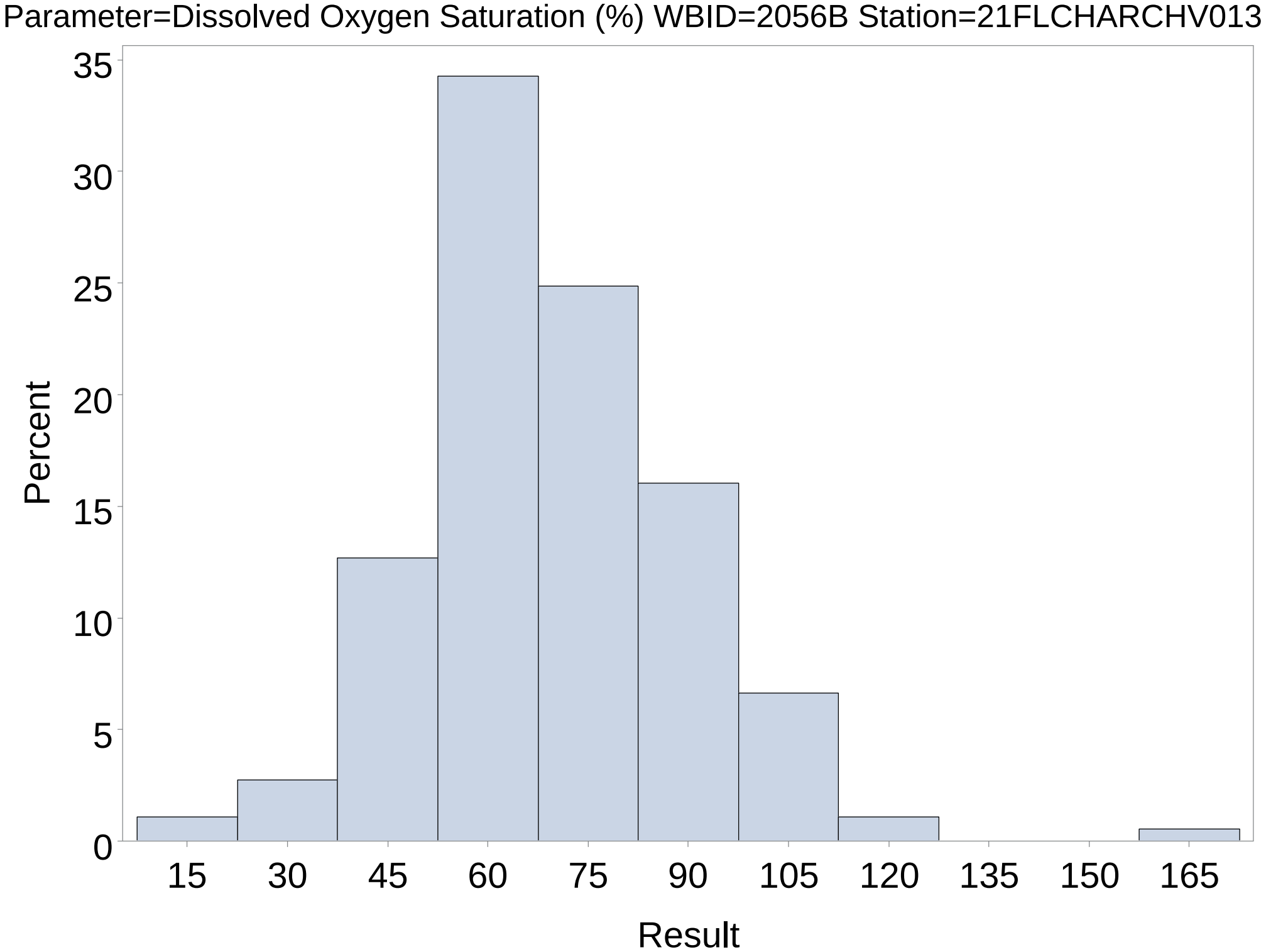
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	46.51659	**Pr > |t|**	<.0001
Sign	**M**	90.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	8235.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	166.3
99%	123.8
95%	102.5
90%	92.5
75% Q3	81.3
50% Median	66.3
25% Q1	57.5
10%	47.5
5%	40.0
1%	17.5
0% Min	17.5

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17.5	2199	107.5	2268
17.5	2198	110.0	2259
25.0	2242	120.0	2328
31.3	2207	123.8	2180
32.0	2341	166.3	2298


Parameter=Dissolved Oxygen Saturation (%) WBID=2056B Station=21FLCHARCHV013
Percent
35
30
25
20
15
10
5
0
15
30
45
60
75
90
105
120
135
150
165
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056C2 Station=112WRD 02297460

Moments			
N	87	**Sum Weights**	87
Mean	74.1764842	**Sum Observations**	6453.35413
Std Deviation	19.9060143	**Variance**	396.249404
Skewness	0.37599206	**Kurtosis**	-0.3555853
Uncorrected SS	512764.569	**Corrected SS**	34077.4488
Coeff Variation	26.8360175	**Std Error Mean**	2.13414874

Basic Statistical Measures			
Location		**Variability**	
Mean	74.17648	**Std Deviation**	19.90601
Median	72.28000	**Variance**	396.24940
Mode	.	**Range**	93.29091
		Interquartile Range	30.25114

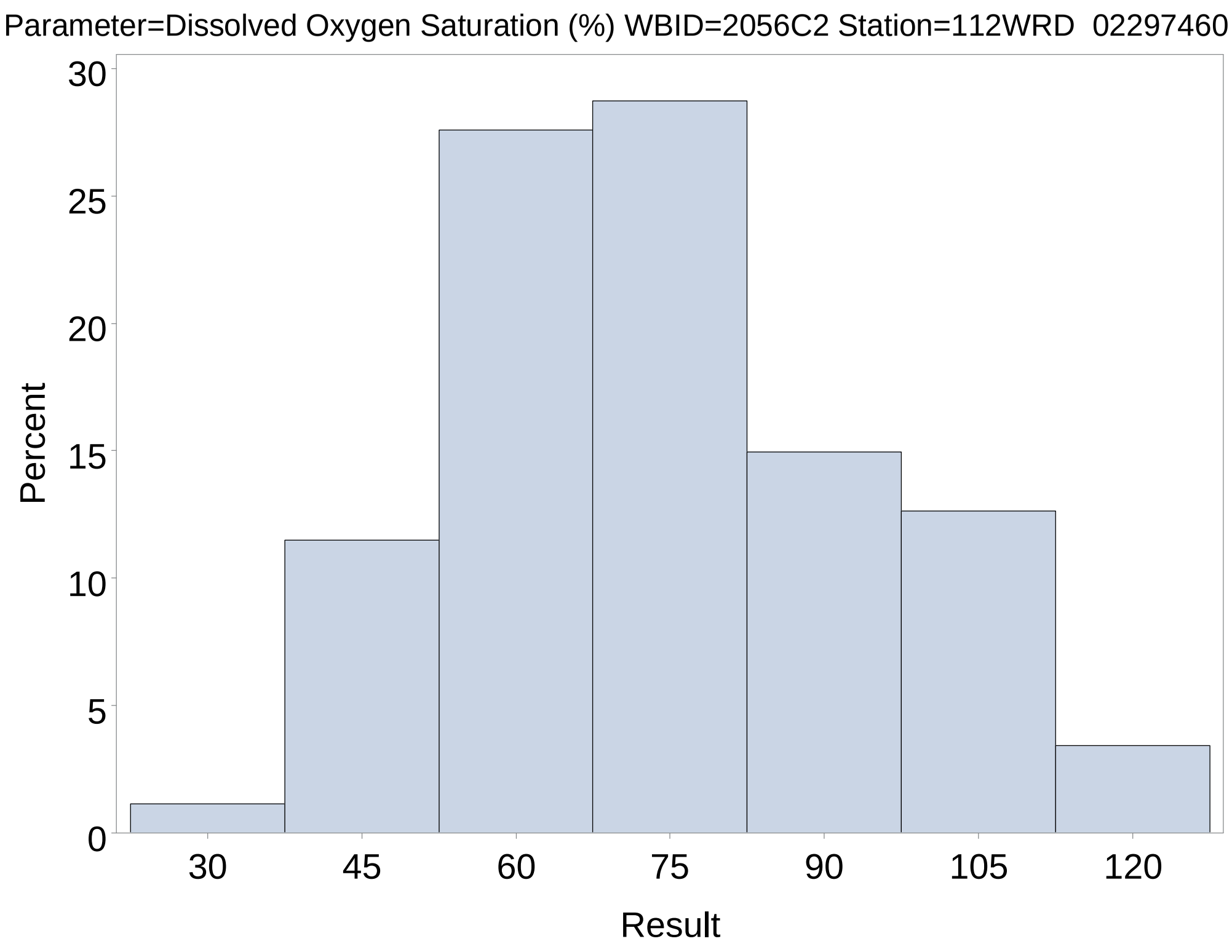
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.75694	**Pr > |t|**	<.0001
Sign	**M**	43.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	1914	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	122.1909
99%	122.1909
95%	108.9000
90%	101.5077
75% Q3	87.9875
50% Median	72.2800
25% Q1	57.7364
10%	50.6500
5%	44.9750
1%	28.9000
0% Min	28.9000

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
28.9000	2405	108.900	2418
42.8900	2363	111.273	2393
43.5857	2364	119.128	2352
44.9731	2406	120.345	2417
44.9750	2366	122.191	2351


Parameter=Dissolved Oxygen Saturation (%) WBID=2056C2 Station=112WRD 02297460
Percent
0
5
10
15
20
25
30
30
45
60
75
90
105
120
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2065A Station=21FLSEAS60SEAS130

Moments			
N	224	**Sum Weights**	224
Mean	85.2875	**Sum Observations**	19104.4
Std Deviation	18.2581397	**Variance**	333.359664
Skewness	0.30350466	**Kurtosis**	1.34610969
Uncorrected SS	1703705.72	**Corrected SS**	74339.205
Coeff Variation	21.4077557	**Std Error Mean**	1.21992327

Basic Statistical Measures			
Location		**Variability**	
Mean	85.28750	**Std Deviation**	18.25814
Median	85.00000	**Variance**	333.35966
Mode	77.50000	**Range**	122.50000
		Interquartile Range	22.80000

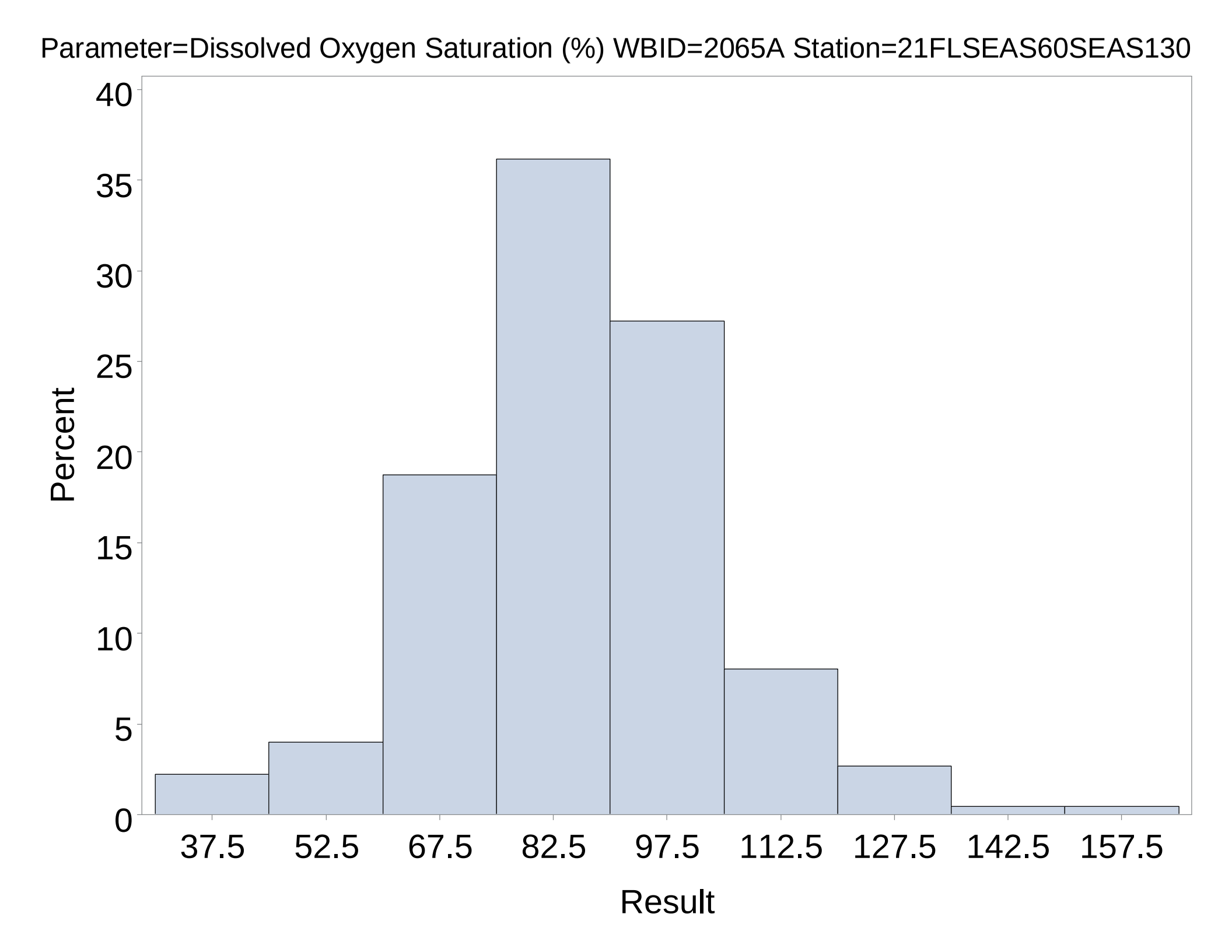
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	69.91218	**Pr > |t|**	<.0001
Sign	**M**	112	**Pr >= |M|**	<.0001
Signed Rank	**S**	12600	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	161.30
99%	133.80
95%	112.50
90%	106.25
75% Q3	97.50
50% Median	85.00
25% Q1	74.70
10%	63.80
5%	58.75
1%	40.05
0% Min	38.80

The UNIVARIATE Procedure
Variable: Result

Parameter=Dissolved Oxygen Saturation (%) WBID=2065A Station=21FLSEAS60SEAS130

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
38.80	2628	123.80	2442
38.80	2457	125.65	2642
40.05	2639	133.80	2486
41.30	2629	142.50	2485
43.80	2615	161.30	2489


Parameter=Dissolved Oxygen Saturation (%) WBID=2065A Station=21FLSEAS60SEAS130
Percent
40
35
30
25
20
15
10
5
0
37.5
52.5
67.5
82.5
97.5
112.5
127.5
142.5
157.5
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Nitrate + Nitrite Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	189	**Sum Weights**	189
Mean	0.05019577	**Sum Observations**	9.487
Std Deviation	0.07364535	**Variance**	0.00542364
Skewness	5.00260726	**Kurtosis**	42.6567288
Uncorrected SS	1.495851	**Corrected SS**	1.01964376
Coeff Variation	146.716248	**Std Error Mean**	0.00535691

Basic Statistical Measures			
Location		**Variability**	
Mean	0.050196	**Std Deviation**	0.07365
Median	0.018000	**Variance**	0.00542
Mode	0.004000	**Range**	0.74600
		Interquartile Range	0.08100

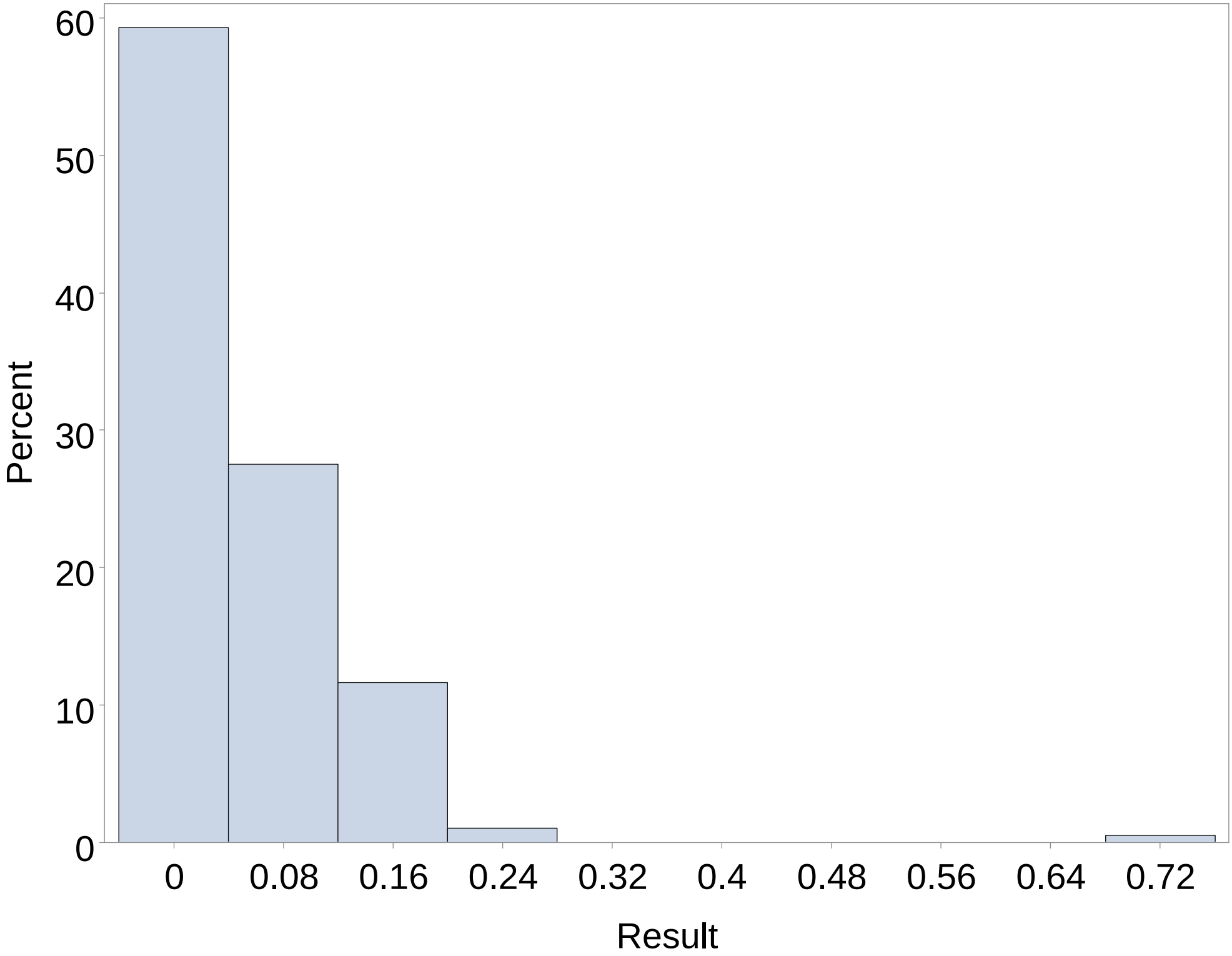
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.370283	**Pr > |t|**	<.0001
Sign	**M**	94.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	8977.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.750
99%	0.240
95%	0.160
90%	0.130
75% Q3	0.086
50% Median	0.018
25% Q1	0.005
10%	0.004
5%	0.004
1%	0.004
0% Min	0.004

The UNIVARIATE Procedure
Variable: Result

Parameter=Nitrate + Nitrite Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	2838	0.18	2775
0.004	2830	0.19	2665
0.004	2829	0.20	2667
0.004	2828	0.24	2839
0.004	2827	0.75	2683


60
50
40
30
20
10
0
Percent
0
0.08
0.16
0.24
0.32
0.4
0.48
0.56
0.64
0.72
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Nitrate + Nitrite Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013

Moments			
N	179	**Sum Weights**	179
Mean	0.16788268	**Sum Observations**	30.051
Std Deviation	0.15357216	**Variance**	0.02358441
Skewness	1.55074502	**Kurtosis**	3.32804146
Uncorrected SS	9.243067	**Corrected SS**	4.19802454
Coeff Variation	91.4758782	**Std Error Mean**	0.01147852

Basic Statistical Measures			
Location		**Variability**	
Mean	0.167883	**Std Deviation**	0.15357
Median	0.140000	**Variance**	0.02358
Mode	0.110000	**Range**	0.83600
		Interquartile Range	0.19900

Note: The mode displayed is the smallest of 3 modes with a count of 8.

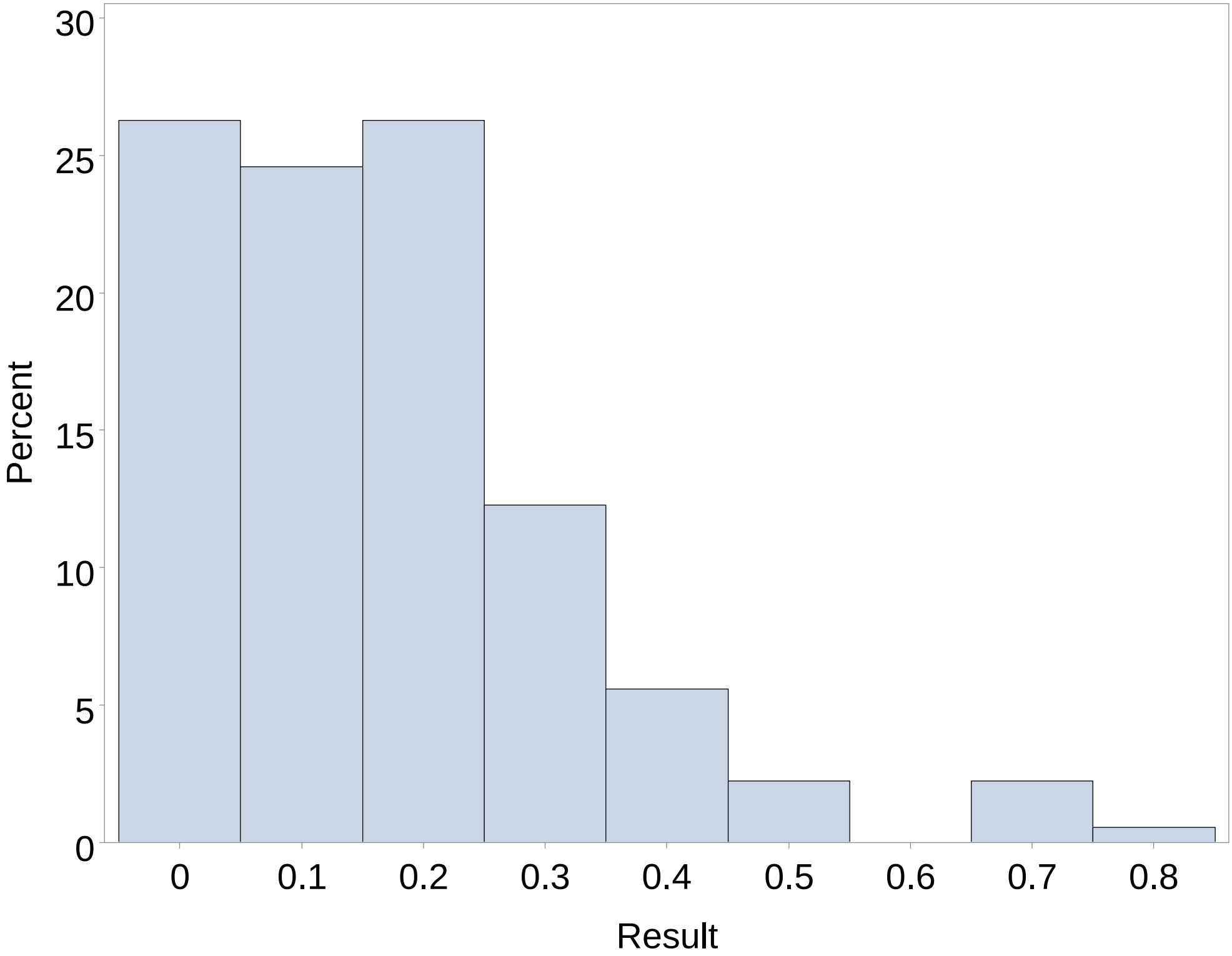
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.62581	**Pr > |t|**	<.0001
Sign	**M**	89.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	8055	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.840
99%	0.720
95%	0.450
90%	0.370
75% Q3	0.240
50% Median	0.140
25% Q1	0.041
10%	0.010
5%	0.005
1%	0.004
0% Min	0.004

The UNIVARIATE Procedure
Variable: Result

Parameter=Nitrate + Nitrite Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	3004	0.65	2857
0.004	2989	0.68	2879
0.004	2964	0.71	2844
0.004	2883	0.72	2984
0.004	2870	0.84	2847


30
25
20
15
10
5
0
Percent
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Nitrate + Nitrite Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460

Moments			
N	47	**Sum Weights**	47
Mean	0.20780142	**Sum Observations**	9.76666667
Std Deviation	0.17580564	**Variance**	0.03090762
Skewness	1.1958951	**Kurtosis**	2.15541
Uncorrected SS	3.45127778	**Corrected SS**	1.42175059
Coeff Variation	84.6027121	**Std Error Mean**	0.02564389

Basic Statistical Measures			
Location		**Variability**	
Mean	0.207801	**Std Deviation**	0.17581
Median	0.200000	**Variance**	0.03091
Mode	0.012500	**Range**	0.75500
		Interquartile Range	0.26000

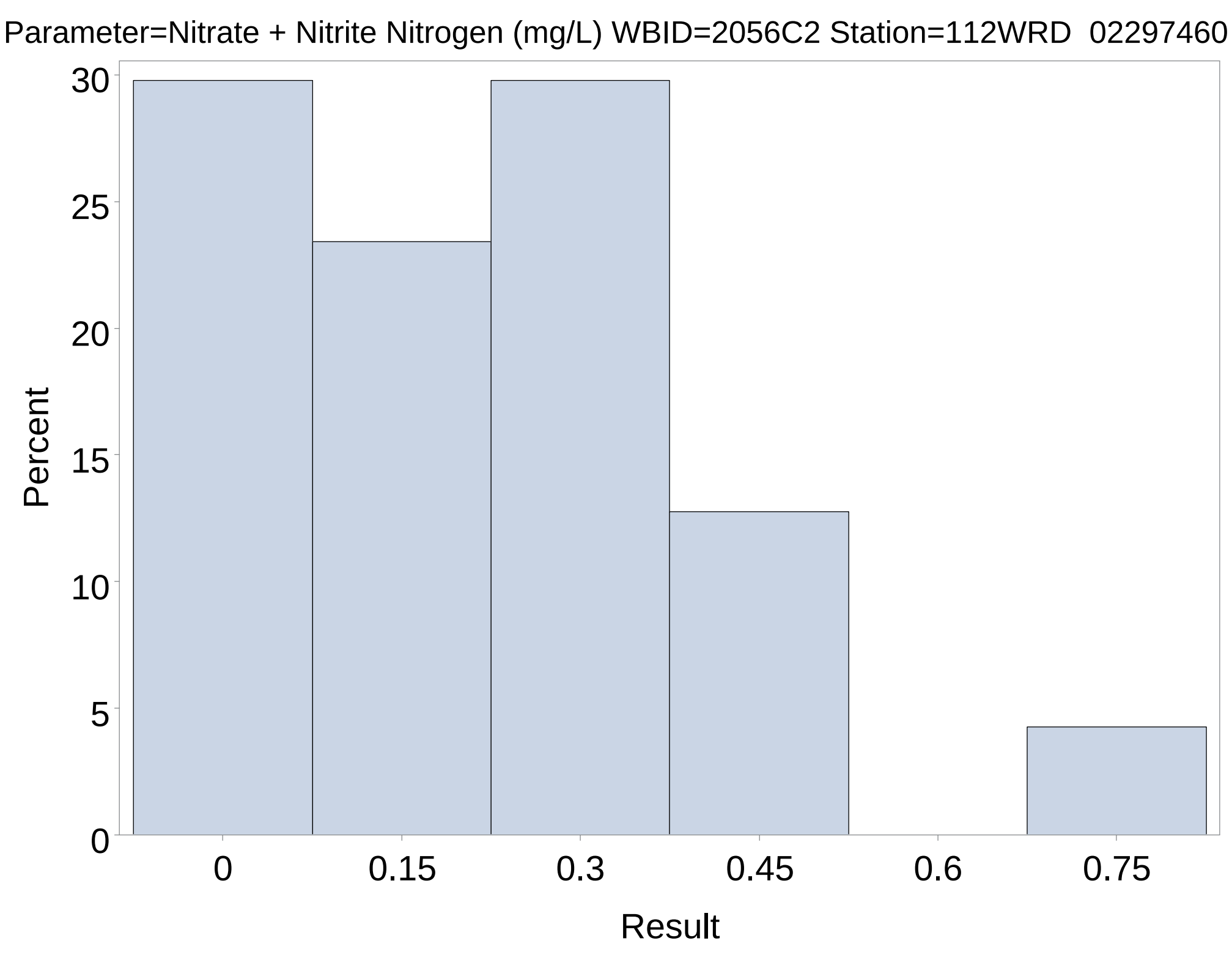
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.103351	**Pr > |t|**	<.0001
Sign	**M**	23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.7650
99%	0.7650
95%	0.4500
90%	0.3950
75% Q3	0.3050
50% Median	0.2000
25% Q1	0.0450
10%	0.0125
5%	0.0125
1%	0.0100
0% Min	0.0100

The UNIVARIATE Procedure
Variable: Result

Parameter=Nitrate + Nitrite Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0100	3021	0.395	3033
0.0125	3067	0.410	3048
0.0125	3066	0.450	3037
0.0125	3065	0.745	3044
0.0125	3054	0.765	3055


Parameter=Nitrate + Nitrite Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460
30
25
20
15
10
5
0
Percent
0
0.15
0.3
0.45
0.6
0.75
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056A Station=21FLCHARCHV006

Moments			
N	113	**Sum Weights**	113
Mean	7.68880531	**Sum Observations**	868.835
Std Deviation	0.27791256	**Variance**	0.07723539
Skewness	-0.3492372	**Kurtosis**	0.62764982
Uncorrected SS	6688.95353	**Corrected SS**	8.65036372
Coeff Variation	3.61450899	**Std Error Mean**	0.02614381

Basic Statistical Measures			
Location		**Variability**	
Mean	7.688805	**Std Deviation**	0.27791
Median	7.700000	**Variance**	0.07724
Mode	7.920000	**Range**	1.60000
		Interquartile Range	0.40000

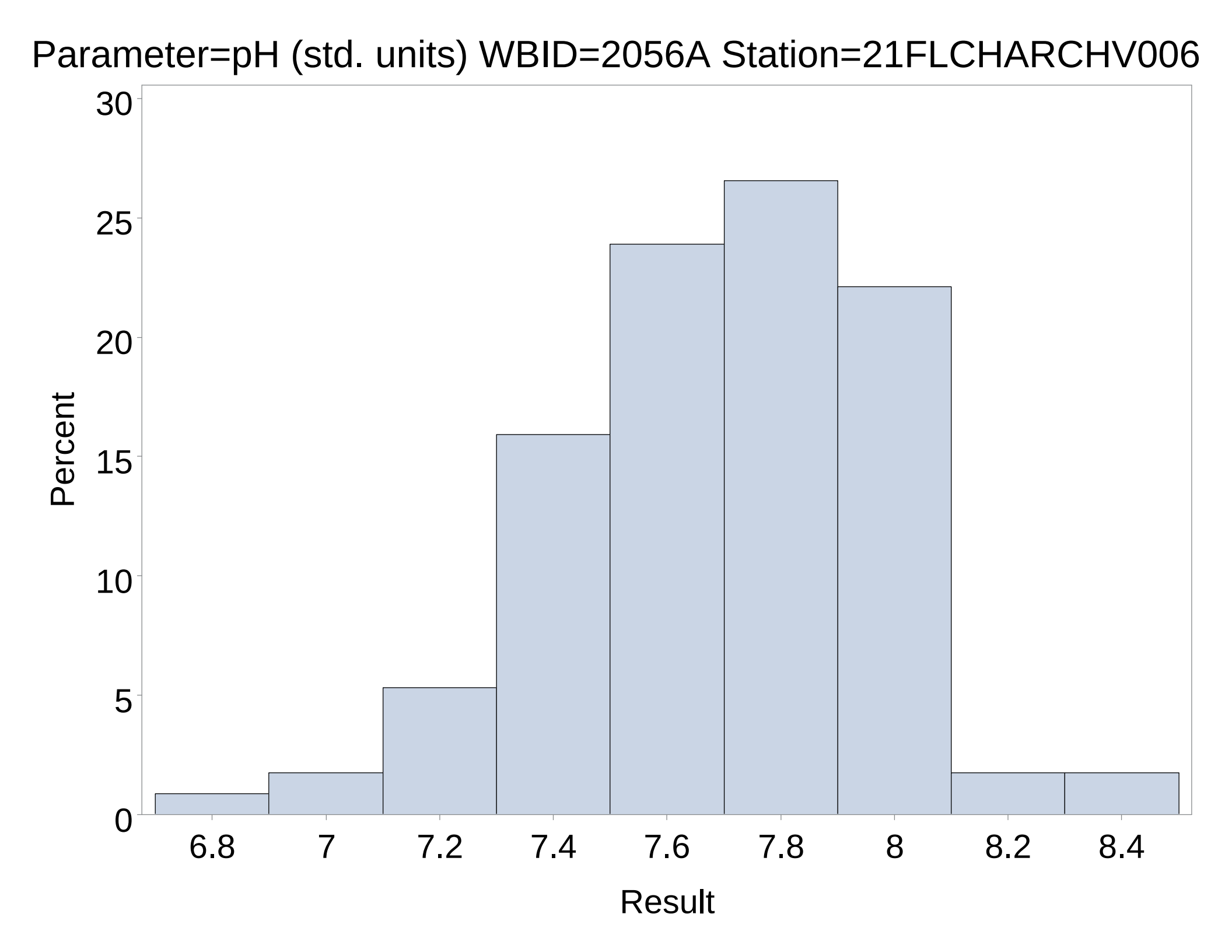
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	294.0965	**Pr > |t|**	<.0001
Sign	**M**	56.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	3220.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.40
99%	8.40
95%	8.08
90%	8.00
75% Q3	7.90
50% Median	7.70
25% Q1	7.50
10%	7.33
5%	7.25
1%	6.91
0% Min	6.80

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.80	3123	8.08	3106
6.91	3125	8.11	3122
7.05	3126	8.20	3069
7.23	3176	8.40	3068
7.23	3082	8.40	3070


Parameter=pH (std. units) WBID=2056A Station=21FLCHARCHV006
Percent
30
25
20
15
10
5
0
6.8
7
7.2
7.4
7.6
7.8
8
8.2
8.4
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056A Station=21FLSEAS60SEAS050

Moments			
N	257	**Sum Weights**	257
Mean	7.83735409	**Sum Observations**	2014.2
Std Deviation	0.34404193	**Variance**	0.11836485
Skewness	-4.5494816	**Kurtosis**	42.9878048
Uncorrected SS	15816.3	**Corrected SS**	30.3014008
Coeff Variation	4.38977137	**Std Error Mean**	0.02146075

Basic Statistical Measures			
Location		**Variability**	
Mean	7.837354	**Std Deviation**	0.34404
Median	7.900000	**Variance**	0.11836
Mode	8.000000	**Range**	4.20000
		Interquartile Range	0.30000

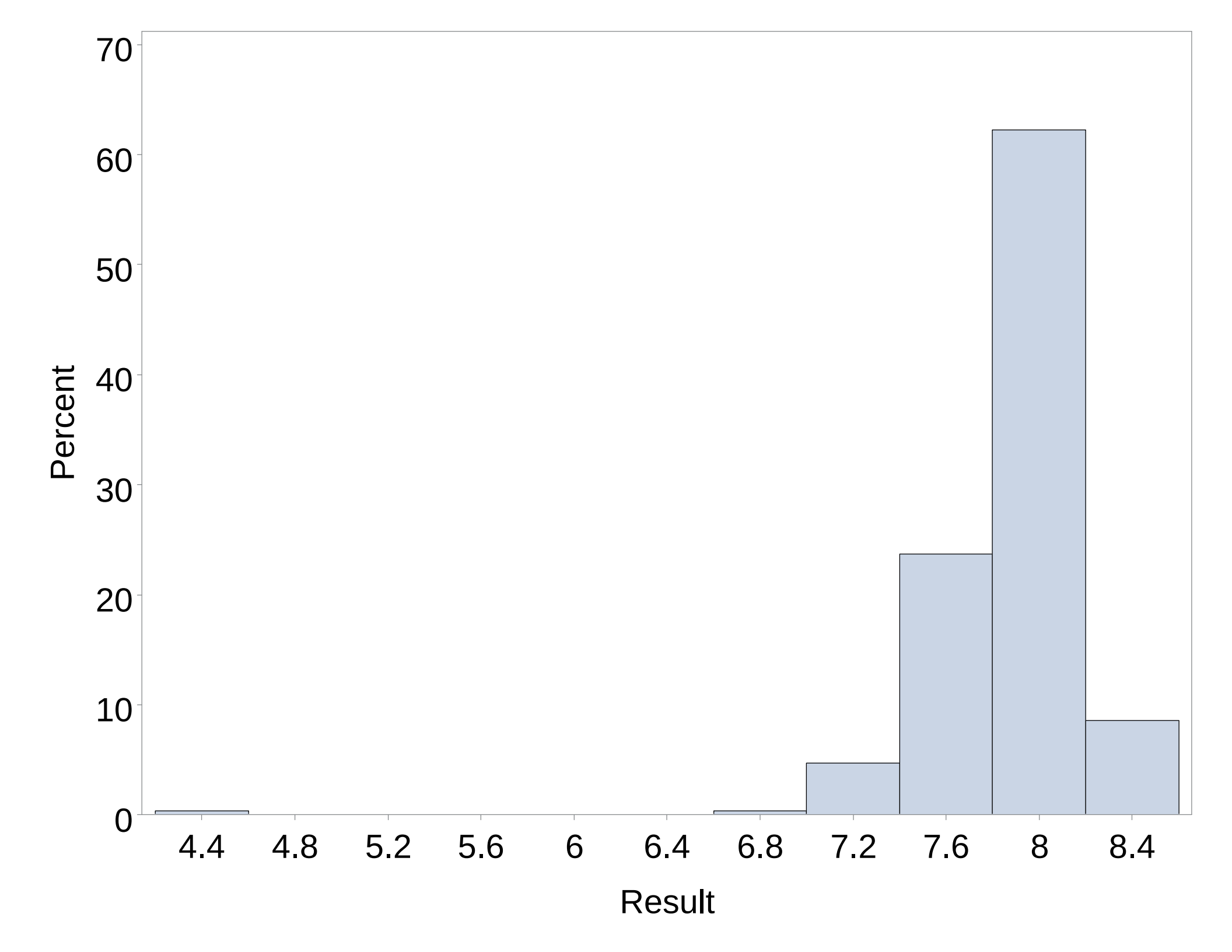
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	365.1949	**Pr > |t|**	<.0001
Sign	**M**	128.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	16576.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.4
95%	8.2
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.7
10%	7.5
5%	7.3
1%	7.0
0% Min	4.3

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056A Station=21FLSEAS60SEAS050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.3	3414	8.3	3429
6.9	3355	8.4	3279
7.0	3354	8.4	3285
7.0	3353	8.5	3273
7.2	3427	8.5	3434


70
60
50
40
30
20
10
0
Percent
4.4
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056B Station=21FLCHARCHV013

Moments			
N	102	**Sum Weights**	102
Mean	7.40166667	**Sum Observations**	754.97
Std Deviation	0.39983681	**Variance**	0.15986947
Skewness	-0.6436525	**Kurtosis**	0.40172414
Uncorrected SS	5604.1831	**Corrected SS**	16.1468167
Coeff Variation	5.40198343	**Std Error Mean**	0.03958974

Basic Statistical Measures			
Location		**Variability**	
Mean	7.401667	**Std Deviation**	0.39984
Median	7.450000	**Variance**	0.15987
Mode	7.800000	**Range**	1.93000
		Interquartile Range	0.47000

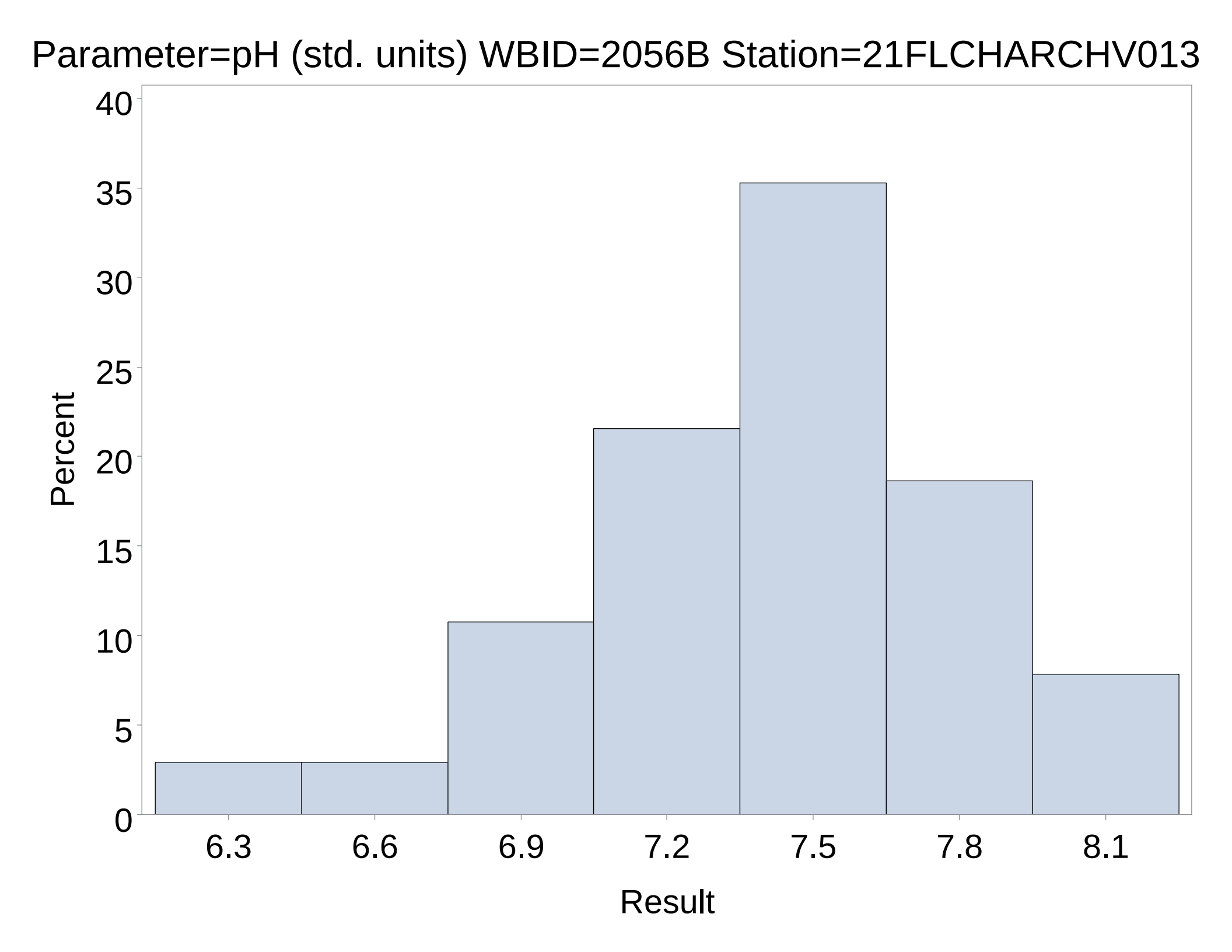
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	186.9592	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.18
99%	8.02
95%	8.00
90%	7.92
75% Q3	7.67
50% Median	7.45
25% Q1	7.20
10%	6.93
5%	6.60
1%	6.30
0% Min	6.25

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.25	3509	8.01	3479
6.30	3520	8.01	3535
6.38	3517	8.02	3459
6.53	3525	8.02	3536
6.56	3453	8.18	3537


Parameter=pH (std. units) WBID=2056B Station=21FLCHARCHV013
Percent
40
35
30
25
20
15
10
5
0
6.3
6.6
6.9
7.2
7.5
7.8
8.1
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056C2 Station=112WRD 02297460

Moments			
N	94	**Sum Weights**	94
Mean	7.37387858	**Sum Observations**	693.144586
Std Deviation	0.40311715	**Variance**	0.16250344
Skewness	-0.3622742	**Kurtosis**	0.17563722
Uncorrected SS	5126.27684	**Corrected SS**	15.1128199
Coeff Variation	5.46682658	**Std Error Mean**	0.04157836

Basic Statistical Measures			
Location		**Variability**	
Mean	7.373879	**Std Deviation**	0.40312
Median	7.374457	**Variance**	0.16250
Mode	7.000000	**Range**	2.17923
		Interquartile Range	0.58826

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

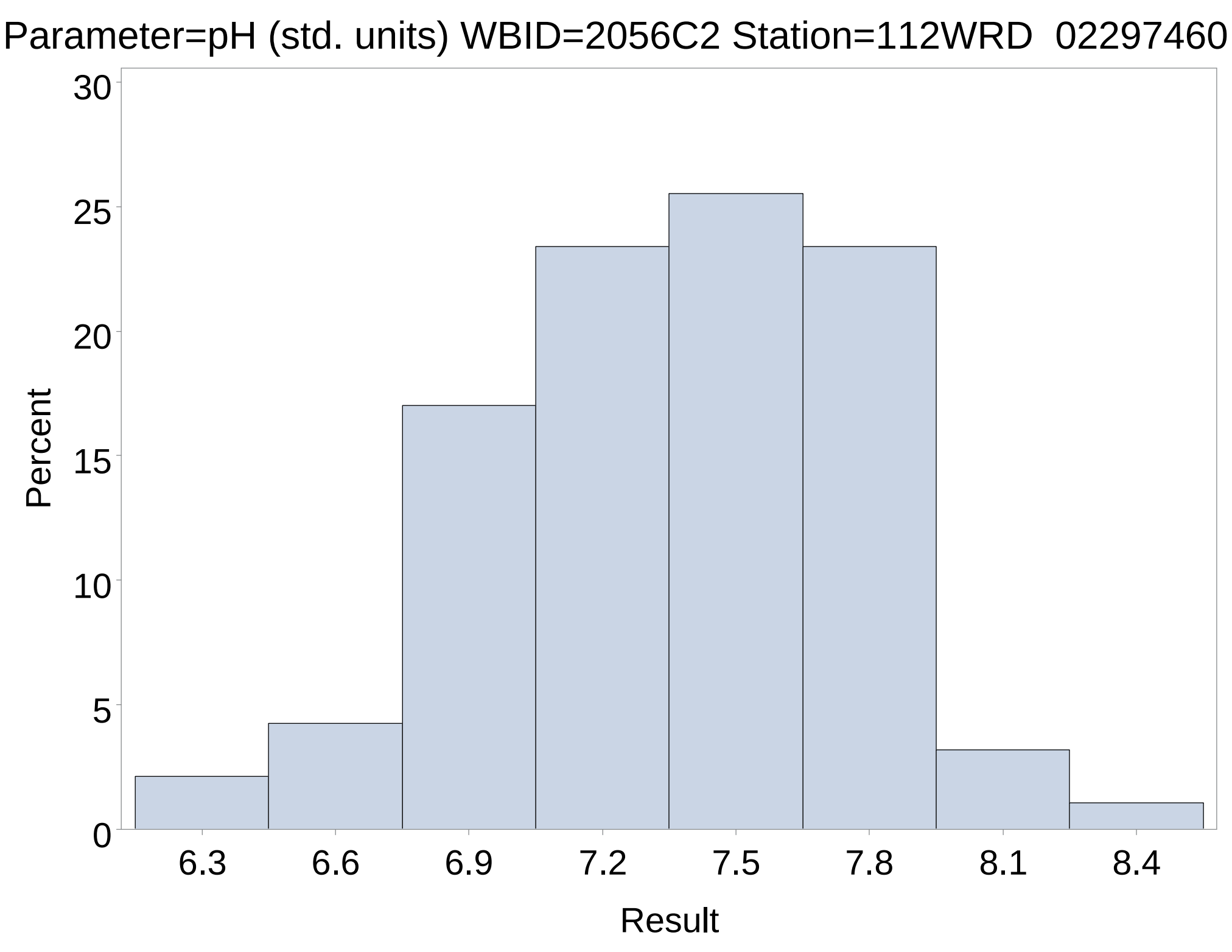
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	177.349	**Pr > |t|**	<.0001
Sign	**M**	47	**Pr >= |M|**	<.0001
Signed Rank	**S**	2232.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.36923
99%	8.36923
95%	7.91429
90%	7.84167
75% Q3	7.67917
50% Median	7.37446
25% Q1	7.09091
10%	6.80000
5%	6.67308
1%	6.19000
0% Min	6.19000

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.19000	3590	7.91429	3619
6.38750	3570	7.98182	3618
6.49565	3579	8.09091	3592
6.63600	3571	8.15455	3596
6.67308	3591	8.36923	3593


Parameter=pH (std. units) WBID=2056C2 Station=112WRD 02297460
30
25
20
15
10
5
0
Percent
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2065A Station=21FLSEAS60SEAS130

Moments			
N	262	**Sum Weights**	262
Mean	7.87290076	**Sum Observations**	2062.7
Std Deviation	0.31958783	**Variance**	0.10213638
Skewness	-5.6652788	**Kurtosis**	59.2628018
Uncorrected SS	16266.09	**Corrected SS**	26.6575954
Coeff Variation	4.05934025	**Std Error Mean**	0.0197442

Basic Statistical Measures			
Location		**Variability**	
Mean	7.872901	**Std Deviation**	0.31959
Median	7.900000	**Variance**	0.10214
Mode	8.000000	**Range**	4.10000
		Interquartile Range	0.20000

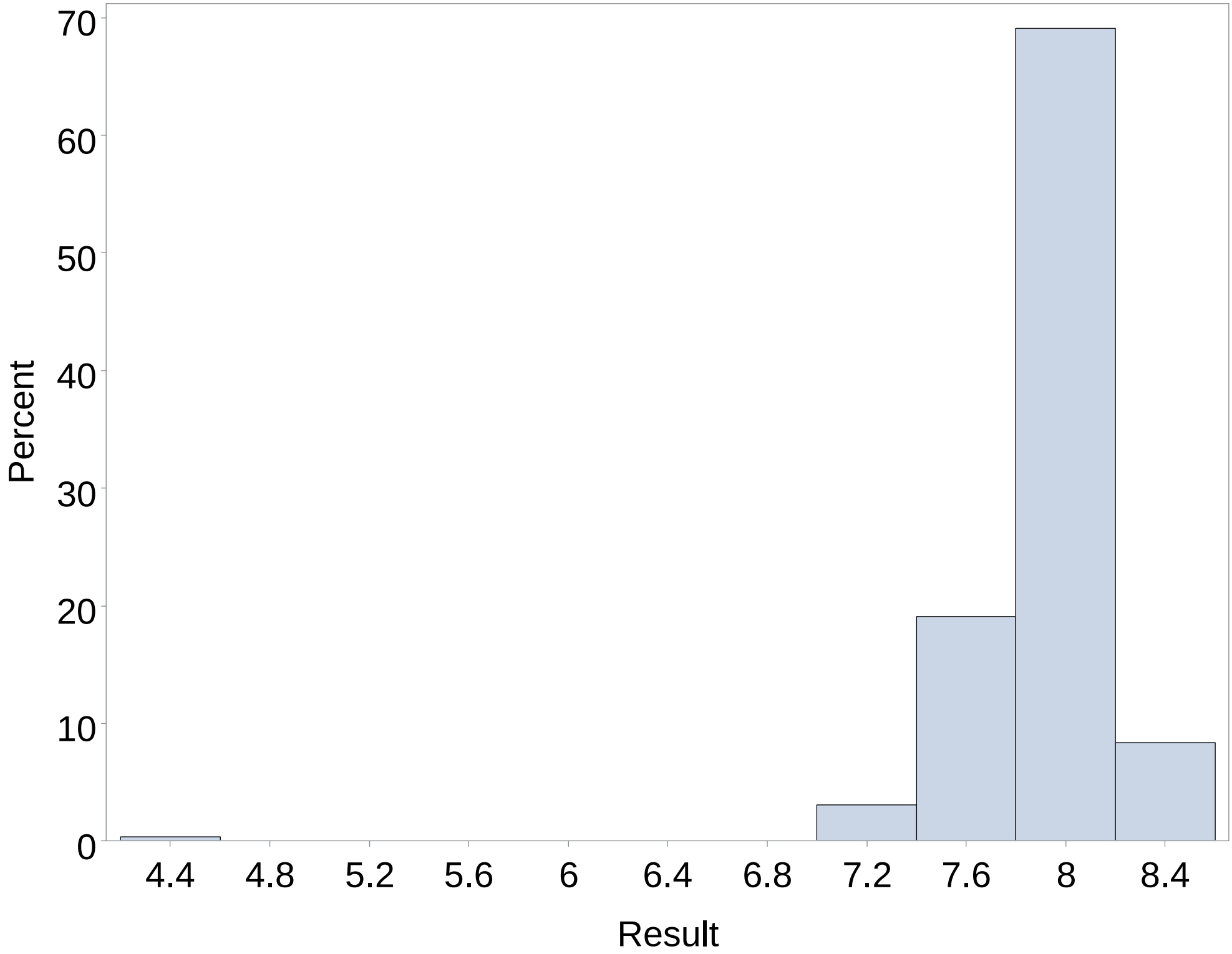
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	398.7449	**Pr > |t|**	<.0001
Sign	**M**	131	**Pr >= |M|**	<.0001
Signed Rank	**S**	17226.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.4
99%	8.3
95%	8.2
90%	8.1
75% Q3	8.0
50% Median	7.9
25% Q1	7.8
10%	7.6
5%	7.5
1%	7.1
0% Min	4.3

The UNIVARIATE Procedure
Variable: Result

Parameter=pH (std. units) WBID=2065A Station=21FLSEAS60SEAS130

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.3	3871	8.3	3736
7.1	3812	8.3	3750
7.1	3811	8.3	3834
7.1	3809	8.3	3893
7.2	3810	8.4	3730


70
60
50
40
30
20
10
0
Percent
4.4
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056A Station=21FLCHARCHV006

Moments			
N	235	**Sum Weights**	235
Mean	20.2098298	**Sum Observations**	4749.31
Std Deviation	8.37859472	**Variance**	70.2008495
Skewness	-0.4898981	**Kurtosis**	-0.5799424
Uncorrected SS	112409.746	**Corrected SS**	16426.9988
Coeff Variation	41.4580173	**Std Error Mean**	0.54655926

Basic Statistical Measures			
Location		**Variability**	
Mean	20.20983	**Std Deviation**	8.37859
Median	21.80000	**Variance**	70.20085
Mode	29.80000	**Range**	35.95000
		Interquartile Range	12.40000

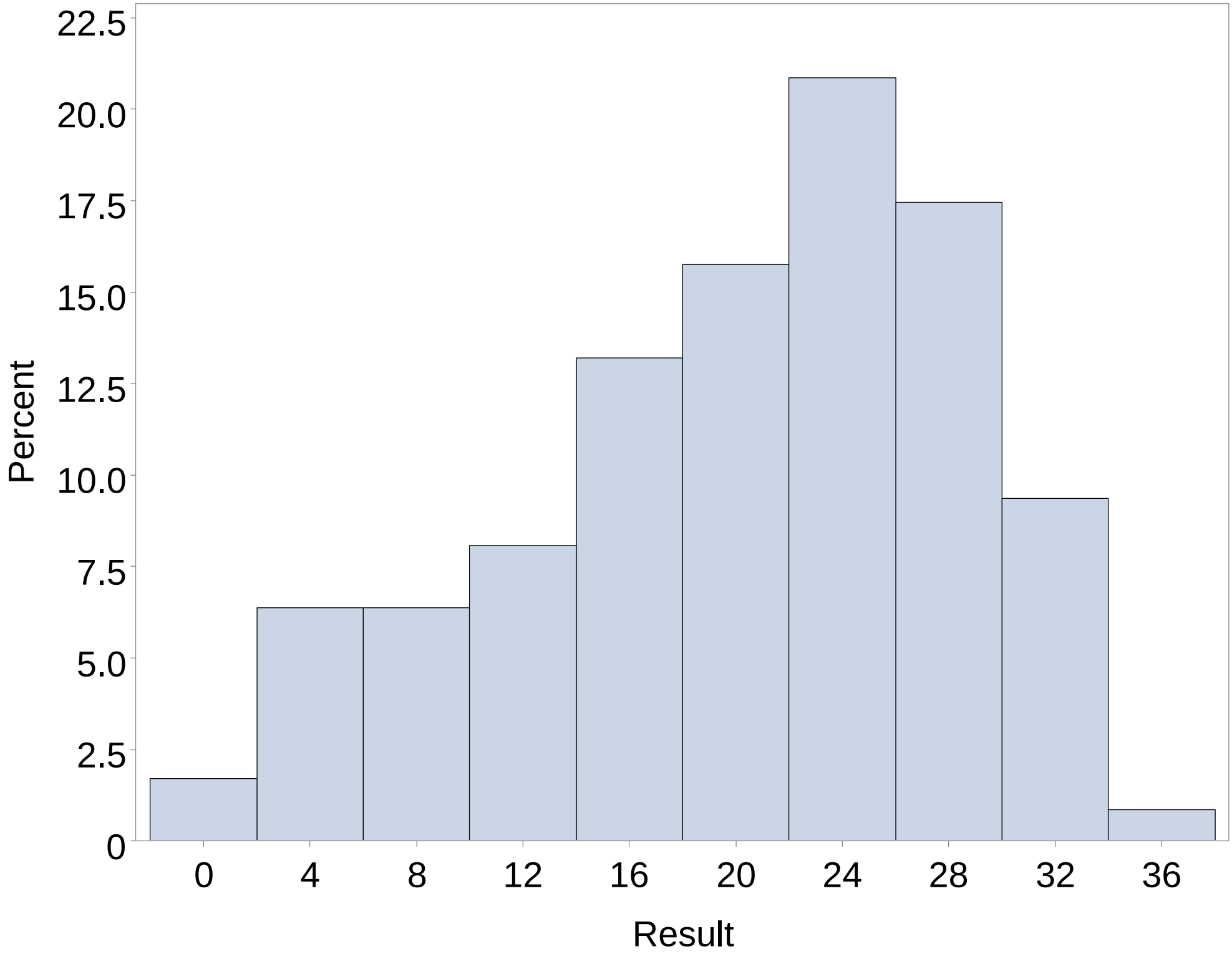
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.97647	**Pr > |t|**	<.0001
Sign	**M**	117.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	13865	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36.70
99%	33.90
95%	32.10
90%	30.00
75% Q3	26.90
50% Median	21.80
25% Q1	14.50
10%	6.44
5%	4.00
1%	1.79
0% Min	0.75

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.75	4076	33.5	4021
1.16	4128	33.5	4061
1.79	4100	33.9	3947
1.90	4065	35.2	4030
2.61	4123	36.7	3946


22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
Percent
0
4
8
12
16
20
24
28
32
36
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056A Station=21FLSEAS60SEAS050

Moments			
N	266	**Sum Weights**	266
Mean	20.4462406	**Sum Observations**	5438.7
Std Deviation	6.47702798	**Variance**	41.9518915
Skewness	-0.357224	**Kurtosis**	0.20149043
Uncorrected SS	122318.22	**Corrected SS**	11117.2512
Coeff Variation	31.678332	**Std Error Mean**	0.39713207

Basic Statistical Measures			
Location		**Variability**	
Mean	20.44624	**Std Deviation**	6.47703
Median	20.45000	**Variance**	41.95189
Mode	19.00000	**Range**	38.95000
		Interquartile Range	8.30000

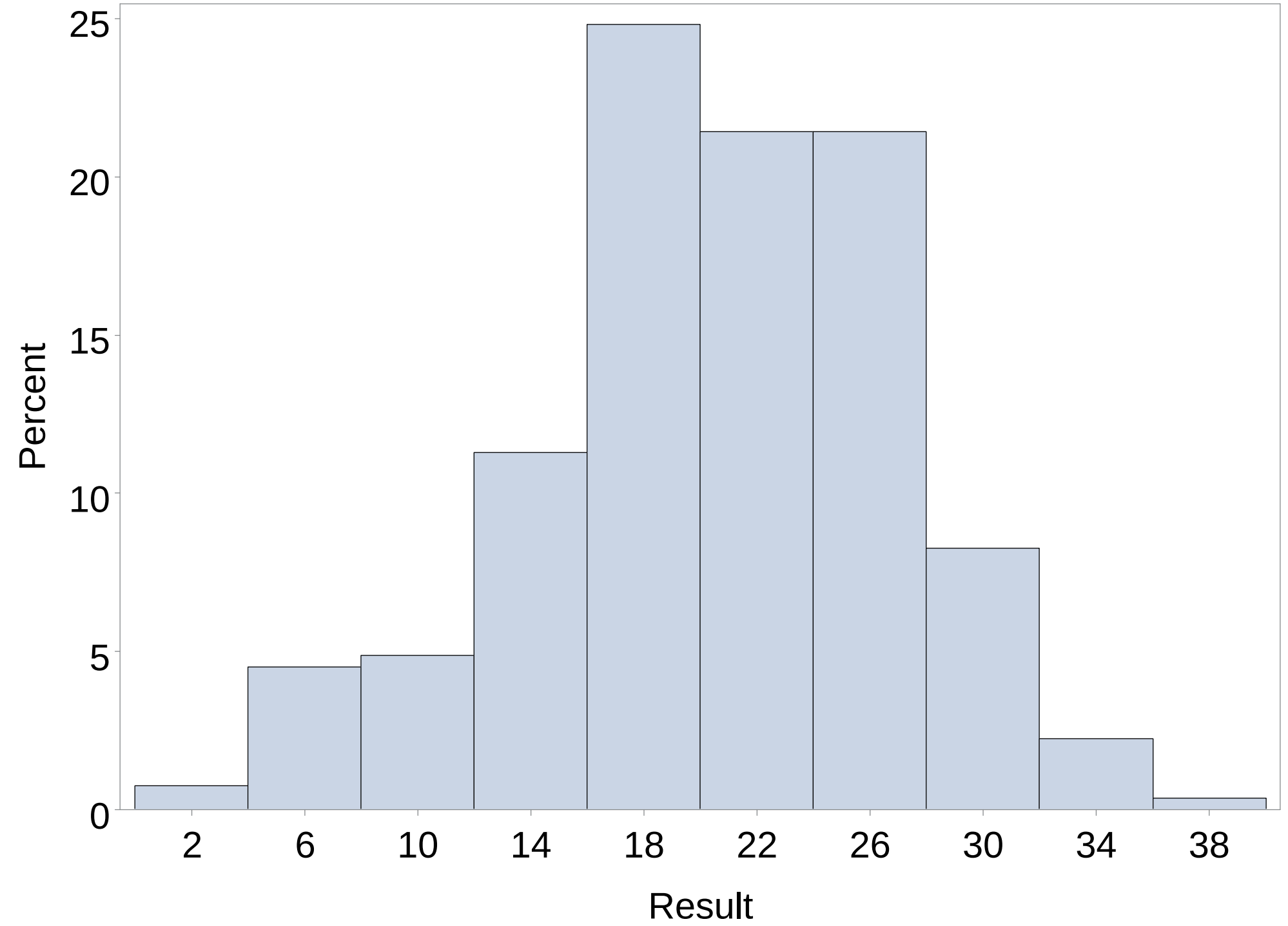
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.48474	**Pr > |t|**	<.0001
Sign	**M**	133	**Pr >= |M|**	<.0001
Signed Rank	**S**	17755.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	39.95
99%	33.60
95%	29.30
90%	28.30
75% Q3	25.40
50% Median	20.45
25% Q1	17.10
10%	11.90
5%	7.90
1%	4.00
0% Min	1.00

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056A Station=21FLSEAS60SEAS050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.0	4244	32.80	4337
2.7	4187	33.10	4382
4.0	4139	33.60	4342
4.3	4140	35.10	4343
4.7	4309	39.95	4378


Parameter=Salinity (psu) WBID=2056A Station=21FLSEAS60SEAS050
Percent
25
20
15
10
5
0
2
6
10
14
18
22
26
30
34
38
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056B Station=21FLCHARCHV013

Moments			
N	192	**Sum Weights**	192
Mean	7.05807292	**Sum Observations**	1355.15
Std Deviation	7.00699067	**Variance**	49.0979183
Skewness	0.84640557	**Kurtosis**	0.04412441
Uncorrected SS	18942.4499	**Corrected SS**	9377.70239
Coeff Variation	99.2762579	**Std Error Mean**	0.50568599

Basic Statistical Measures			
Location		**Variability**	
Mean	7.058073	**Std Deviation**	7.00699
Median	5.100000	**Variance**	49.09792
Mode	0.000000	**Range**	33.00000
		Interquartile Range	11.40000

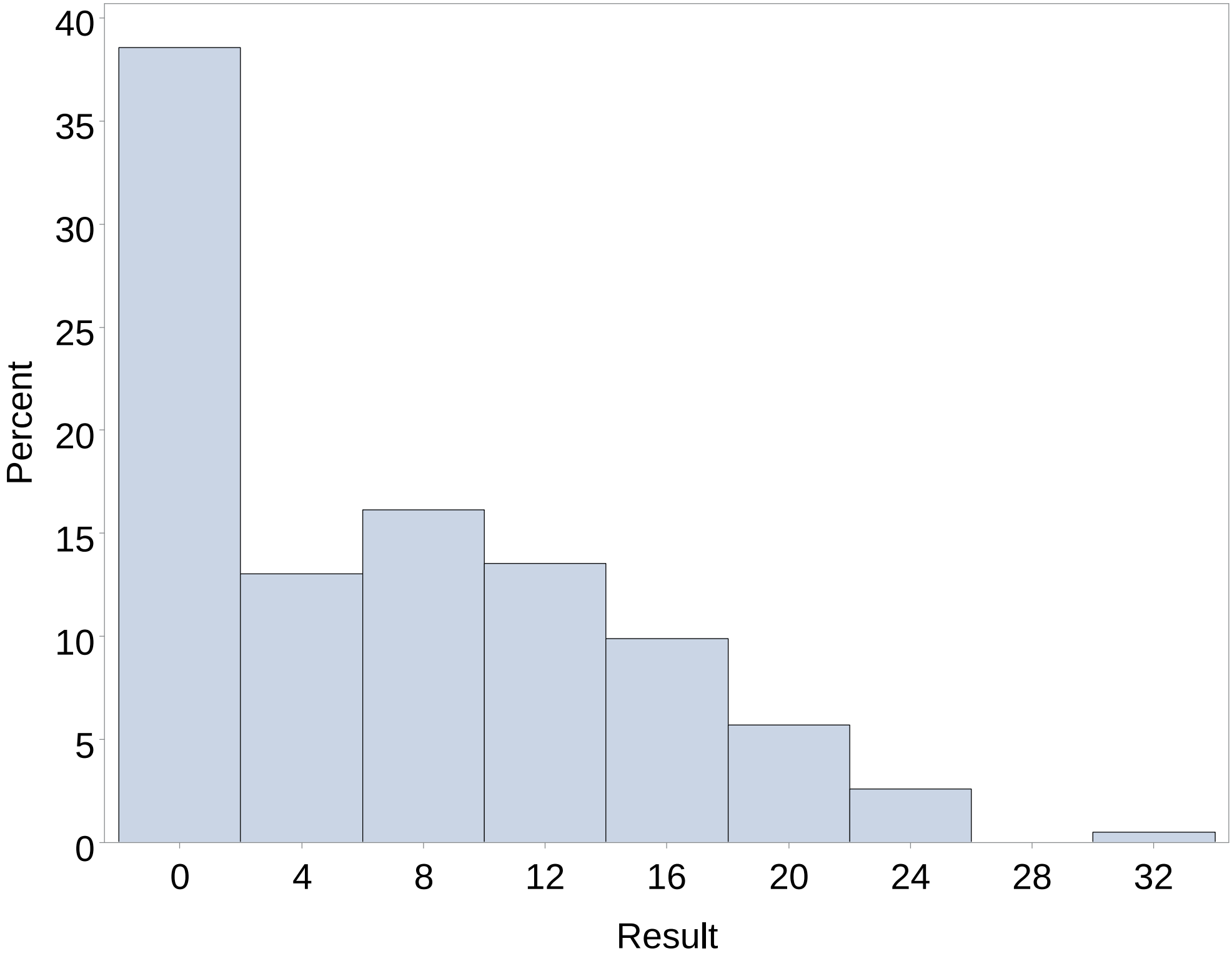
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.95742	**Pr > |t|**	<.0001
Sign	**M**	84	**Pr >= |M|**	<.0001
Signed Rank	**S**	7098	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.0
99%	25.6
95%	20.4
90%	16.7
75% Q3	12.0
50% Median	5.1
25% Q1	0.6
10%	0.0
5%	0.0
1%	0.0
0% Min	0.0

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	4582	22.3	4578
0	4570	22.7	4579
0	4569	23.5	4487
0	4565	25.6	4522
0	4564	33.0	4467


40
35
30
25
20
15
10
5
0
Percent
0
4
8
12
16
20
24
28
32
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056C2 Station=112WRD 02297460

Moments			
N	151	**Sum Weights**	151
Mean	7.91902449	**Sum Observations**	1195.7727
Std Deviation	7.22474471	**Variance**	52.1969362
Skewness	0.56838399	**Kurtosis**	-0.9173871
Uncorrected SS	17298.8937	**Corrected SS**	7829.54043
Coeff Variation	91.2327613	**Std Error Mean**	0.58794139

Basic Statistical Measures			
Location		**Variability**	
Mean	7.919024	**Std Deviation**	7.22474
Median	5.460000	**Variance**	52.19694
Mode	.	**Range**	24.11917
		Interquartile Range	13.17964

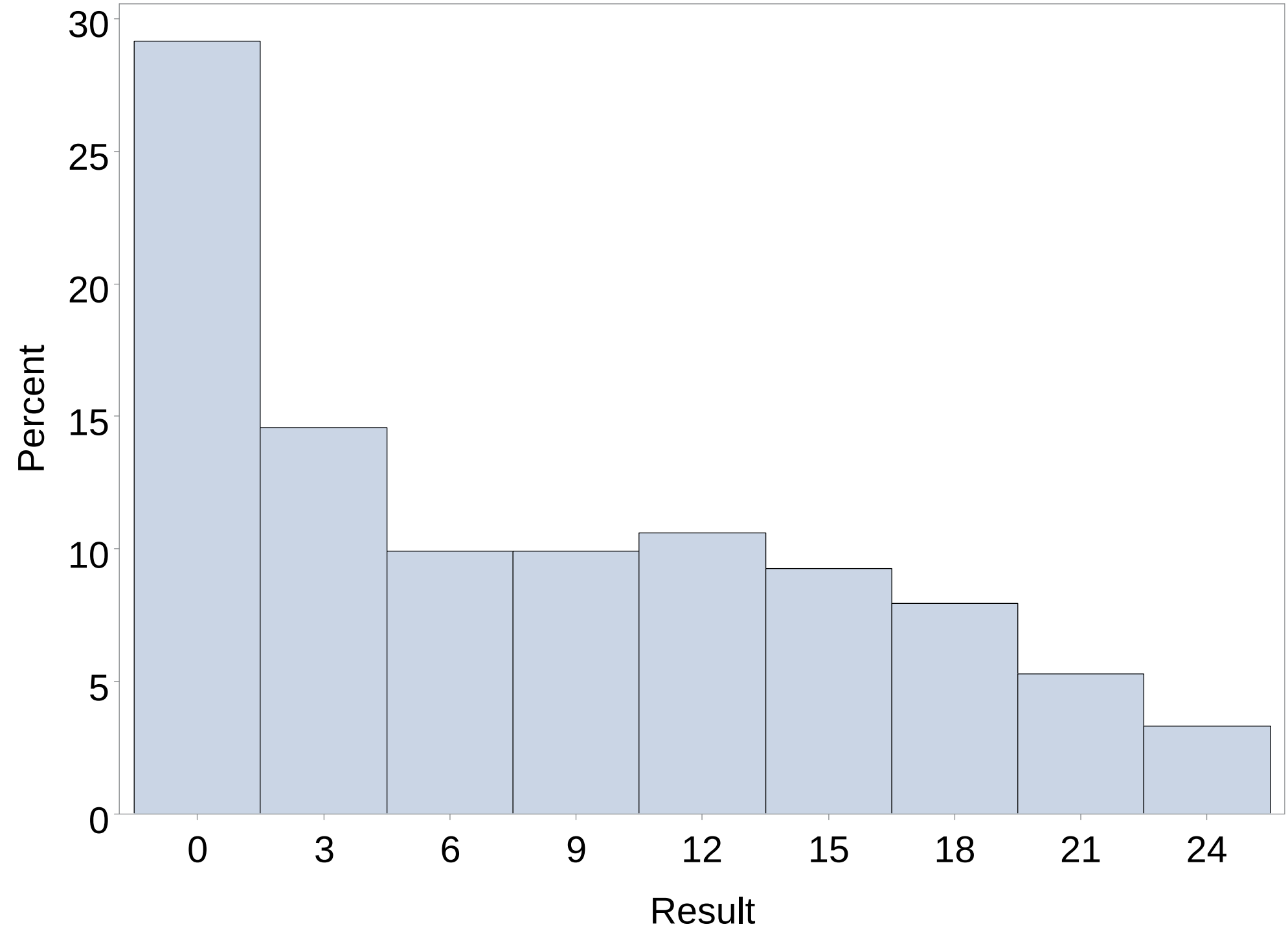
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.46907	**Pr > |t|**	<.0001
Sign	**M**	75.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	5738	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.169167
99%	23.926500
95%	21.315000
90%	18.030000
75% Q3	13.677143
50% Median	5.460000
25% Q1	0.497500
10%	0.133333
5%	0.090000
1%	0.050000
0% Min	0.050000

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	4627	22.8400	4703
0.050	4628	23.4200	4717
0.060	4619	23.5346	4673
0.062	4620	23.9265	4676
0.070	4625	24.1692	4675


Parameter=Salinity (psu) WBID=2056C2 Station=112WRD 02297460
30
25
20
15
10
5
0
Percent
0
3
6
9
12
15
18
21
24
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2065A Station=21FLSEAS60SEAS130

Moments			
N	272	**Sum Weights**	272
Mean	21.6279412	**Sum Observations**	5882.8
Std Deviation	6.19548182	**Variance**	38.383995
Skewness	-0.4839065	**Kurtosis**	0.52924461
Uncorrected SS	137634.915	**Corrected SS**	10402.0626
Coeff Variation	28.6457309	**Std Error Mean**	0.37565626

Basic Statistical Measures			
Location		**Variability**	
Mean	21.62794	**Std Deviation**	6.19548
Median	21.70000	**Variance**	38.38400
Mode	21.30000	**Range**	37.90000
		Interquartile Range	7.60000

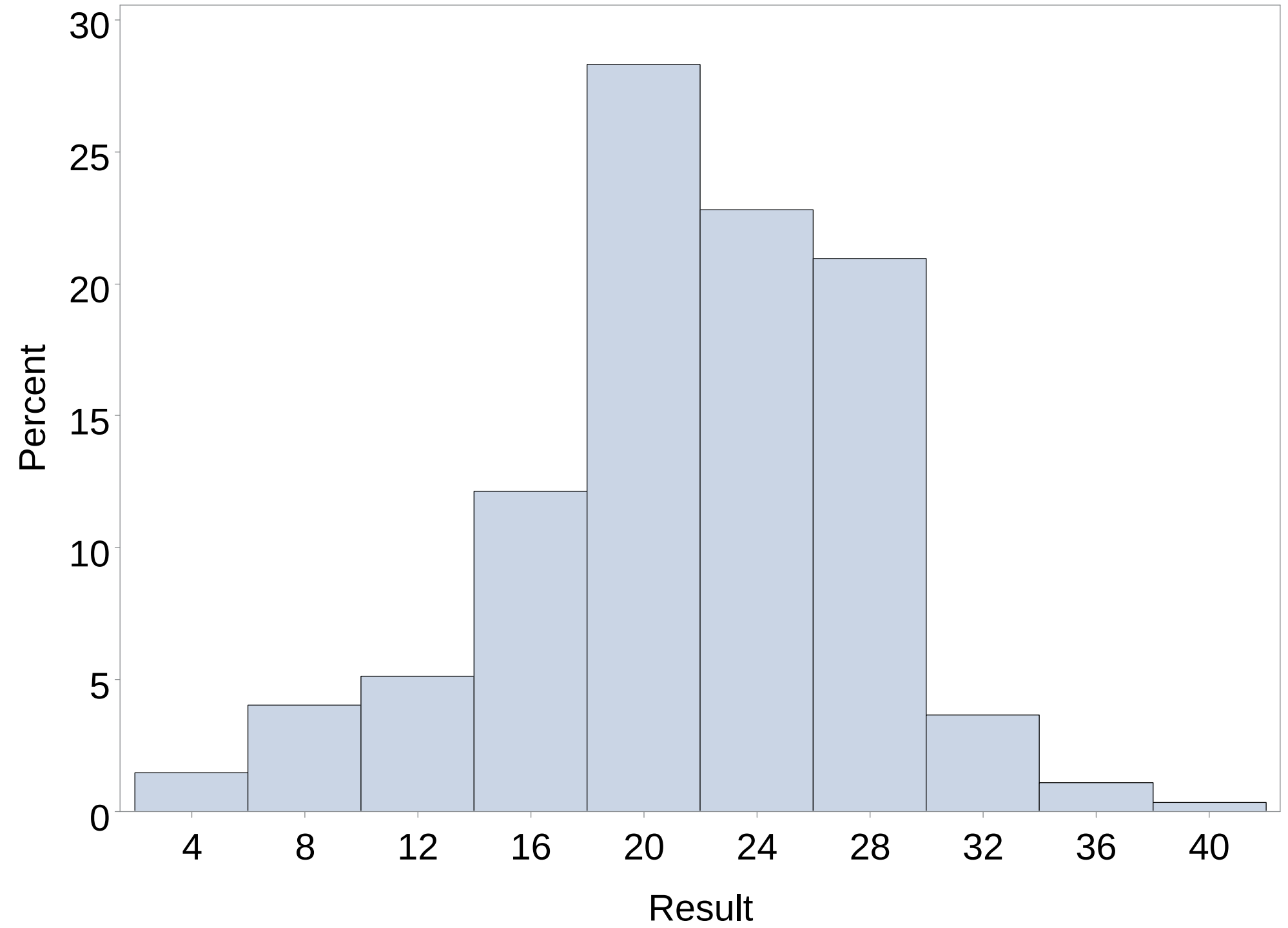
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	57.57375	**Pr > |t|**	<.0001
Sign	**M**	136	**Pr >= |M|**	<.0001
Signed Rank	**S**	18564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40.0
99%	35.1
95%	30.0
90%	28.7
75% Q3	26.1
50% Median	21.7
25% Q1	18.5
10%	13.9
5%	9.0
1%	5.0
0% Min	2.1

The UNIVARIATE Procedure
Variable: Result

Parameter=Salinity (psu) WBID=2065A Station=21FLSEAS60SEAS130

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.1	4858	33.35	4955
2.7	4800	34.00	4956
5.0	4749	35.10	4957
5.6	4924	35.40	4997
6.0	4923	40.00	4993


Parameter=Salinity (psu) WBID=2065A Station=21FLSEAS60SEAS130
Percent
30
25
20
15
10
5
0
4
8
12
16
20
24
28
32
36
40
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056A Station=21FLCHARCHV006

Moments			
N	237	**Sum Weights**	237
Mean	23.742616	**Sum Observations**	5627
Std Deviation	4.67193187	**Variance**	21.8269474
Skewness	-0.5260012	**Kurtosis**	-0.5127654
Uncorrected SS	138750.86	**Corrected SS**	5151.15958
Coeff Variation	19.6774099	**Std Error Mean**	0.30347459

Basic Statistical Measures			
Location		**Variability**	
Mean	23.74262	**Std Deviation**	4.67193
Median	24.10000	**Variance**	21.82695
Mode	24.00000	**Range**	22.10000
		Interquartile Range	8.00000

Note: The mode displayed is the smallest of 3 modes with a count of 14.

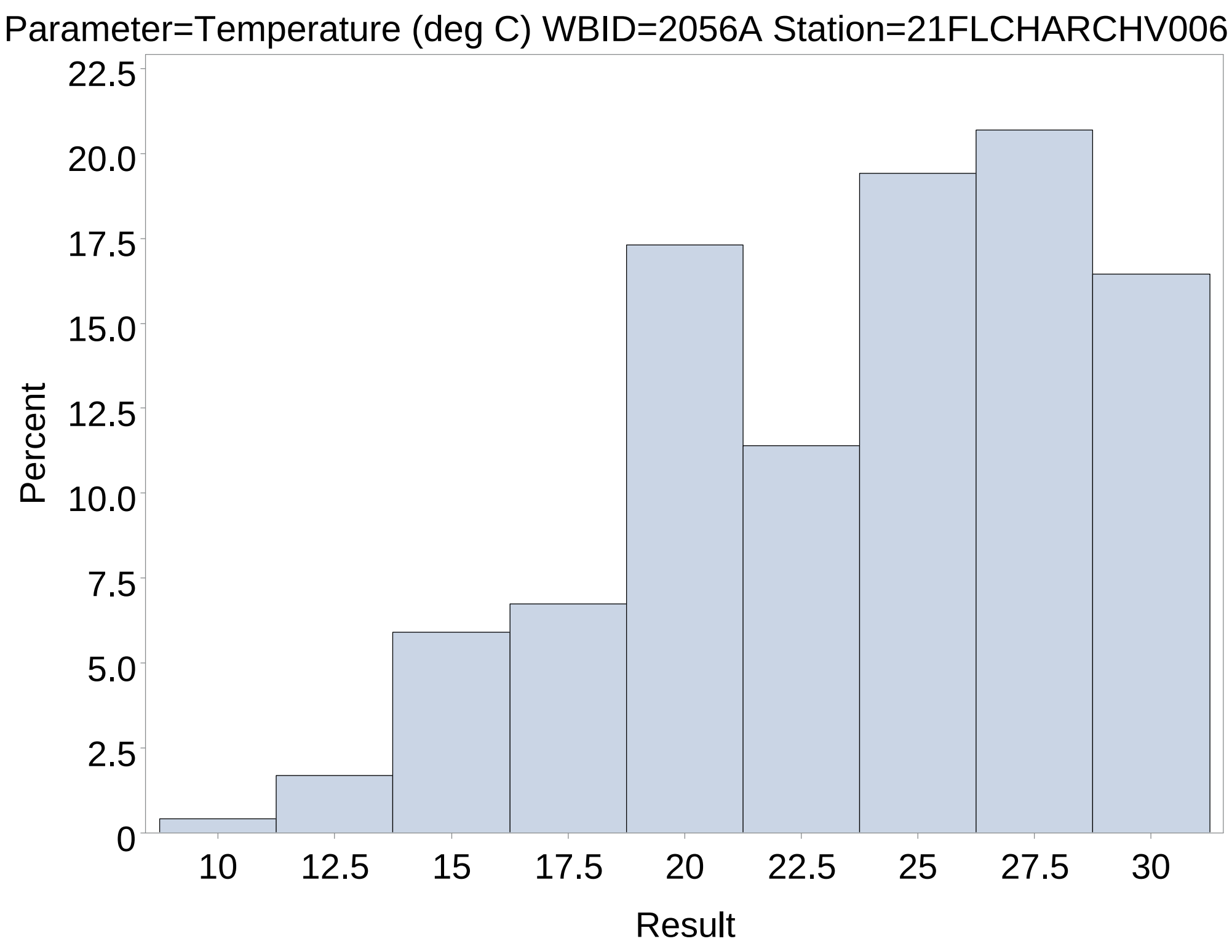
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	78.23593	**Pr > |t|**	<.0001
Sign	**M**	118.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	14101.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.1
99%	30.5
95%	30.0
90%	29.3
75% Q3	28.0
50% Median	24.1
25% Q1	20.0
10%	17.7
5%	15.0
1%	13.1
0% Min	9.0

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.0	5082	30.5	5043
12.0	5057	30.5	5228
13.1	5147	30.5	5229
13.5	5058	30.6	5161
13.6	5190	31.1	5239


Parameter=Temperature (deg C) WBID=2056A Station=21FLCHARCHV006
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
10
12.5
15
17.5
20
22.5
25
27.5
30
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056A Station=21FLSEAS60SEAS050

Moments			
N	290	**Sum Weights**	290
Mean	24.2867241	**Sum Observations**	7043.15
Std Deviation	4.44005883	**Variance**	19.7141224
Skewness	-0.4244653	**Kurtosis**	-0.6466736
Uncorrected SS	176752.423	**Corrected SS**	5697.38139
Coeff Variation	18.281835	**Std Error Mean**	0.26072923

Basic Statistical Measures			
Location		**Variability**	
Mean	24.28672	**Std Deviation**	4.44006
Median	24.95000	**Variance**	19.71412
Mode	27.20000	**Range**	20.80000
		Interquartile Range	6.90000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

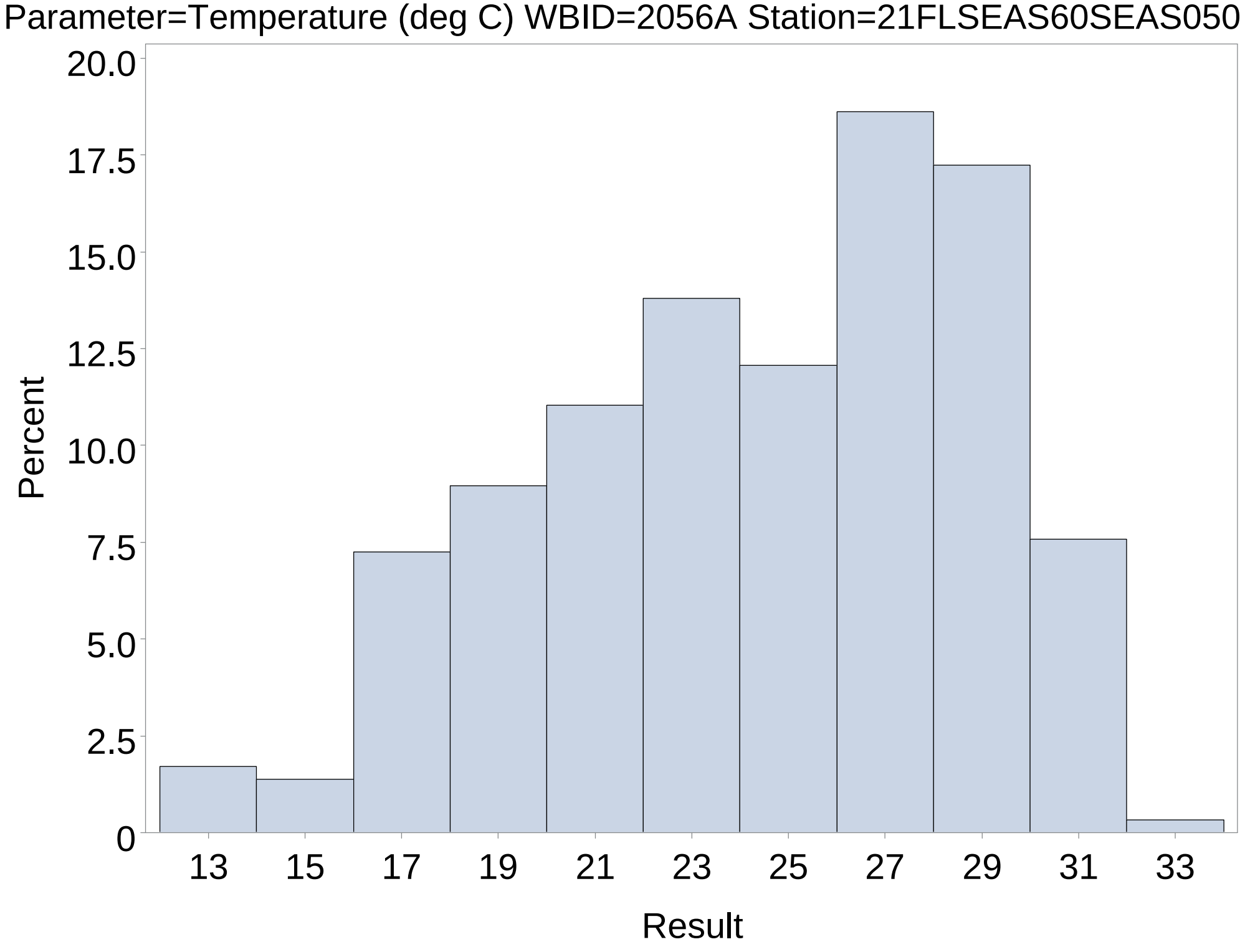
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	93.14922	**Pr > |t|**	<.0001
Sign	**M**	145	**Pr >= |M|**	<.0001
Signed Rank	**S**	21097.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.400
99%	31.500
95%	30.700
90%	29.375
75% Q3	28.000
50% Median	24.950
25% Q1	21.100
10%	17.825
5%	16.250
1%	13.300
0% Min	12.600

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056A Station=21FLSEAS60SEAS050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.6	5405	31.2	5447
13.2	5505	31.5	5497
13.3	5409	31.5	5534
13.8	5288	31.6	5446
13.9	5404	33.4	5301


Parameter=Temperature (deg C) WBID=2056A Station=21FLSEAS60SEAS050
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056B Station=21FLCHARCHV013

Moments			
N	190	**Sum Weights**	190
Mean	23.5068421	**Sum Observations**	4466.3
Std Deviation	4.19092059	**Variance**	17.5638154
Skewness	-0.460658	**Kurtosis**	-0.8433722
Uncorrected SS	108308.17	**Corrected SS**	3319.56111
Coeff Variation	17.8285138	**Std Error Mean**	0.30404134

Basic Statistical Measures			
Location		**Variability**	
Mean	23.50684	**Std Deviation**	4.19092
Median	24.45000	**Variance**	17.56382
Mode	28.00000	**Range**	17.60000
		Interquartile Range	7.00000

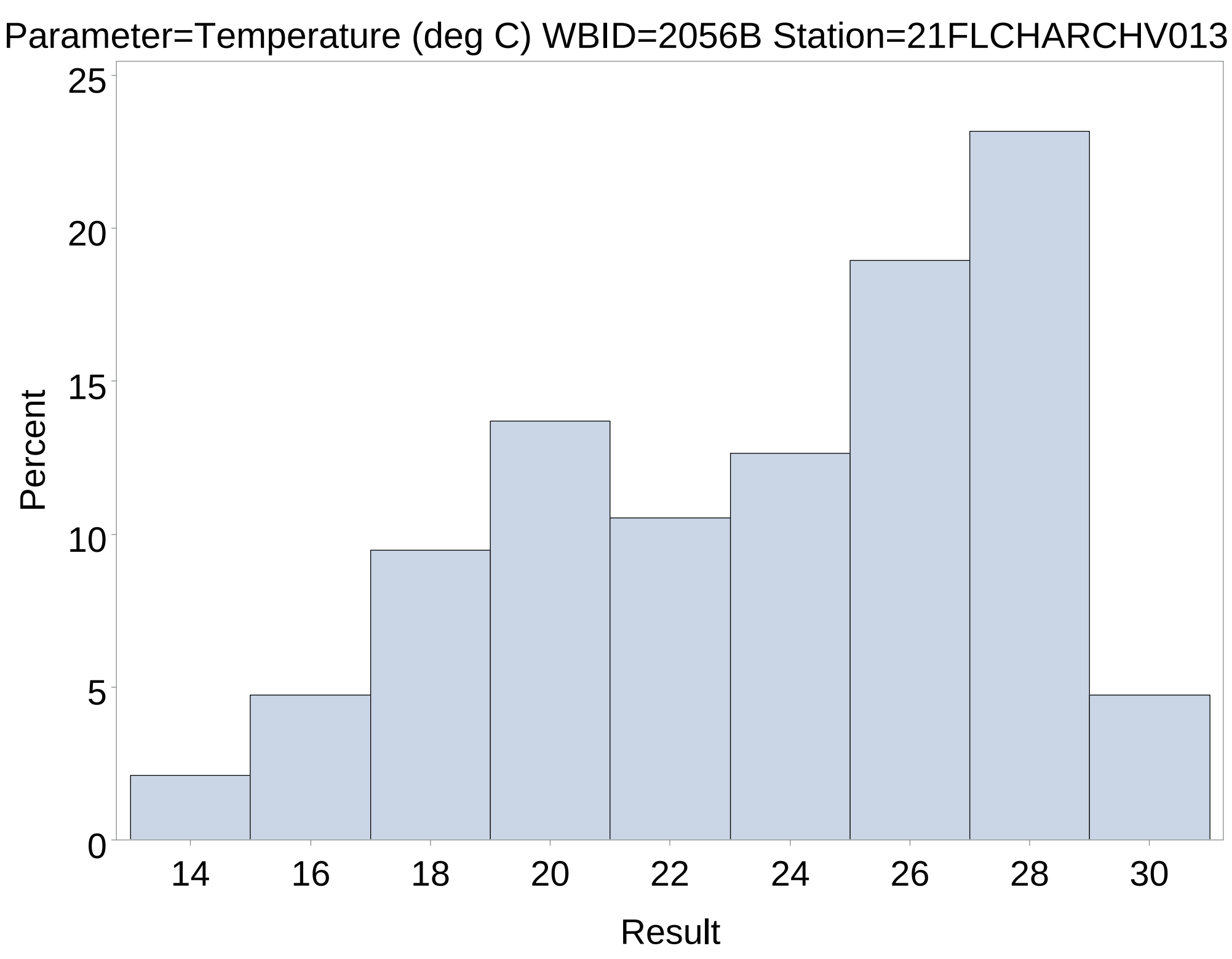
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	77.31463	**Pr > |t|**	<.0001
Sign	**M**	95	**Pr >= |M|**	<.0001
Signed Rank	**S**	9072.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.60
99%	30.50
95%	28.90
90%	28.00
75% Q3	27.00
50% Median	24.45
25% Q1	20.00
10%	17.65
5%	16.00
1%	14.00
0% Min	13.00

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.0	5637	29.5	5587
14.0	5639	30.0	5642
14.0	5557	30.0	5644
14.9	5724	30.5	5611
15.0	5672	30.6	5654


Parameter=Temperature (deg C) WBID=2056B Station=21FLCHARCHV013
Percent
0
5
10
15
20
25
14
16
18
20
22
24
26
28
30
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056C2 Station=112WRD 02297460

Moments			
N	163	**Sum Weights**	163
Mean	24.7387522	**Sum Observations**	4032.41661
Std Deviation	4.49903246	**Variance**	20.2412931
Skewness	-0.3408187	**Kurtosis**	-0.9413791
Uncorrected SS	103036.045	**Corrected SS**	3279.08949
Coeff Variation	18.1861738	**Std Error Mean**	0.35239142

Basic Statistical Measures			
Location		**Variability**	
Mean	24.73875	**Std Deviation**	4.49903
Median	25.10833	**Variance**	20.24129
Mode	29.50000	**Range**	19.55000
		Interquartile Range	7.49886

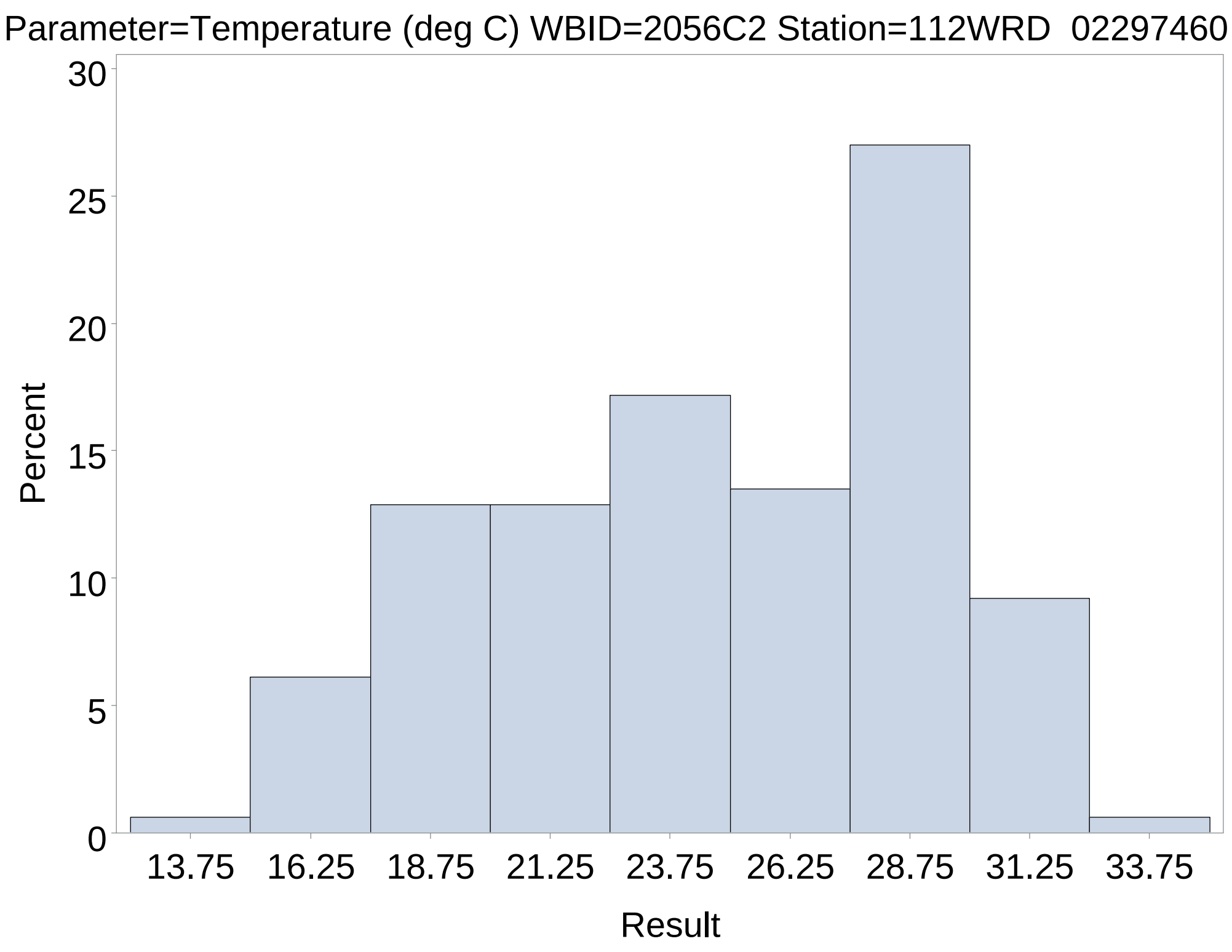
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	70.20248	**Pr > |t|**	<.0001
Sign	**M**	81.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	6683	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.9000
99%	31.7167
95%	30.7600
90%	29.9500
75% Q3	28.6364
50% Median	25.1083
25% Q1	21.1375
10%	18.3692
5%	16.8500
1%	15.6000
0% Min	13.3500

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.3500	5874	31.3826	5800
15.6000	5739	31.4000	5799
16.0438	5762	31.7000	5870
16.1880	5740	31.7167	5773
16.2500	5826	32.9000	5841


Parameter=Temperature (deg C) WBID=2056C2 Station=112WRD 02297460
Percent
30
25
20
15
10
5
0
13.75
16.25
18.75
21.25
23.75
26.25
28.75
31.25
33.75
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2065A Station=21FLSEAS60SEAS130

Moments			
N	296	**Sum Weights**	296
Mean	24.191723	**Sum Observations**	7160.75
Std Deviation	4.47129725	**Variance**	19.9924991
Skewness	-0.3529979	**Kurtosis**	-0.852439
Uncorrected SS	179128.668	**Corrected SS**	5897.78722
Coeff Variation	18.4827565	**Std Error Mean**	0.25988887

Basic Statistical Measures			
Location		**Variability**	
Mean	24.19172	**Std Deviation**	4.47130
Median	24.80000	**Variance**	19.99250
Mode	27.20000	**Range**	20.00000
		Interquartile Range	7.07500

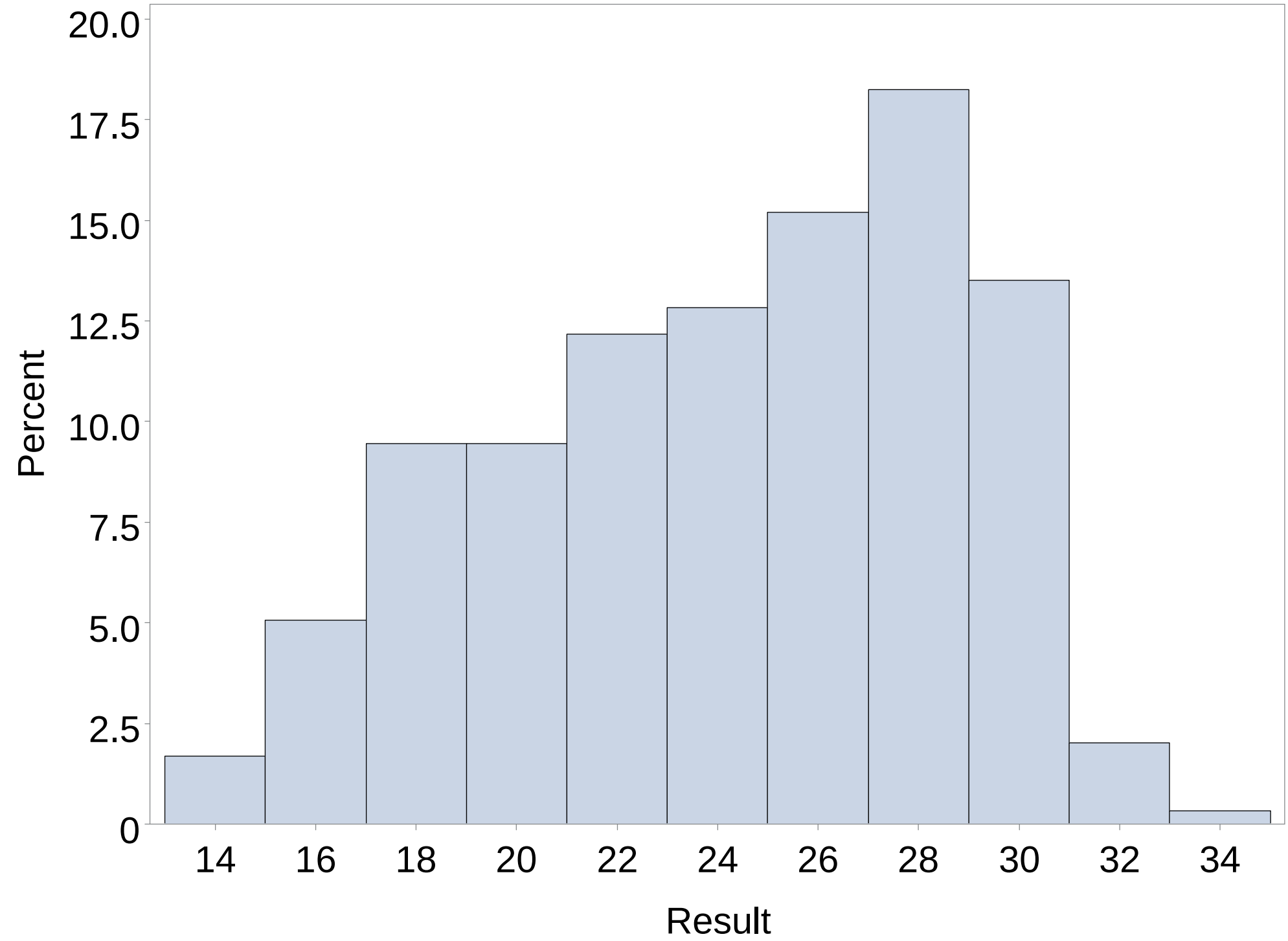
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	93.08487	**Pr > |t|**	<.0001
Sign	**M**	148	**Pr >= |M|**	<.0001
Signed Rank	**S**	21978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.700
99%	31.700
95%	30.400
90%	29.600
75% Q3	27.900
50% Median	24.800
25% Q1	20.825
10%	17.550
5%	16.500
1%	14.300
0% Min	13.700

The UNIVARIATE Procedure
Variable: Result

Parameter=Temperature (deg C) WBID=2065A Station=21FLSEAS60SEAS130

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.7	6052	31.4	6094
14.2	6057	31.6	6092
14.3	6053	31.7	6145
14.5	5931	31.8	6095
14.7	6138	33.7	5946


Parameter=Temperature (deg C) WBID=2065A Station=21FLSEAS60SEAS130
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
14
16
18
20
22
24
26
28
30
32
34
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	194	**Sum Weights**	194
Mean	0.97814433	**Sum Observations**	189.76
Std Deviation	0.41668897	**Variance**	0.1736297
Skewness	0.71974669	**Kurtosis**	0.58706523
Uncorrected SS	219.1232	**Corrected SS**	33.510532
Coeff Variation	42.5999476	**Std Error Mean**	0.02991652

Basic Statistical Measures			
Location		**Variability**	
Mean	0.978144	**Std Deviation**	0.41669
Median	0.910000	**Variance**	0.17363
Mode	1.100000	**Range**	2.22000
		Interquartile Range	0.54000

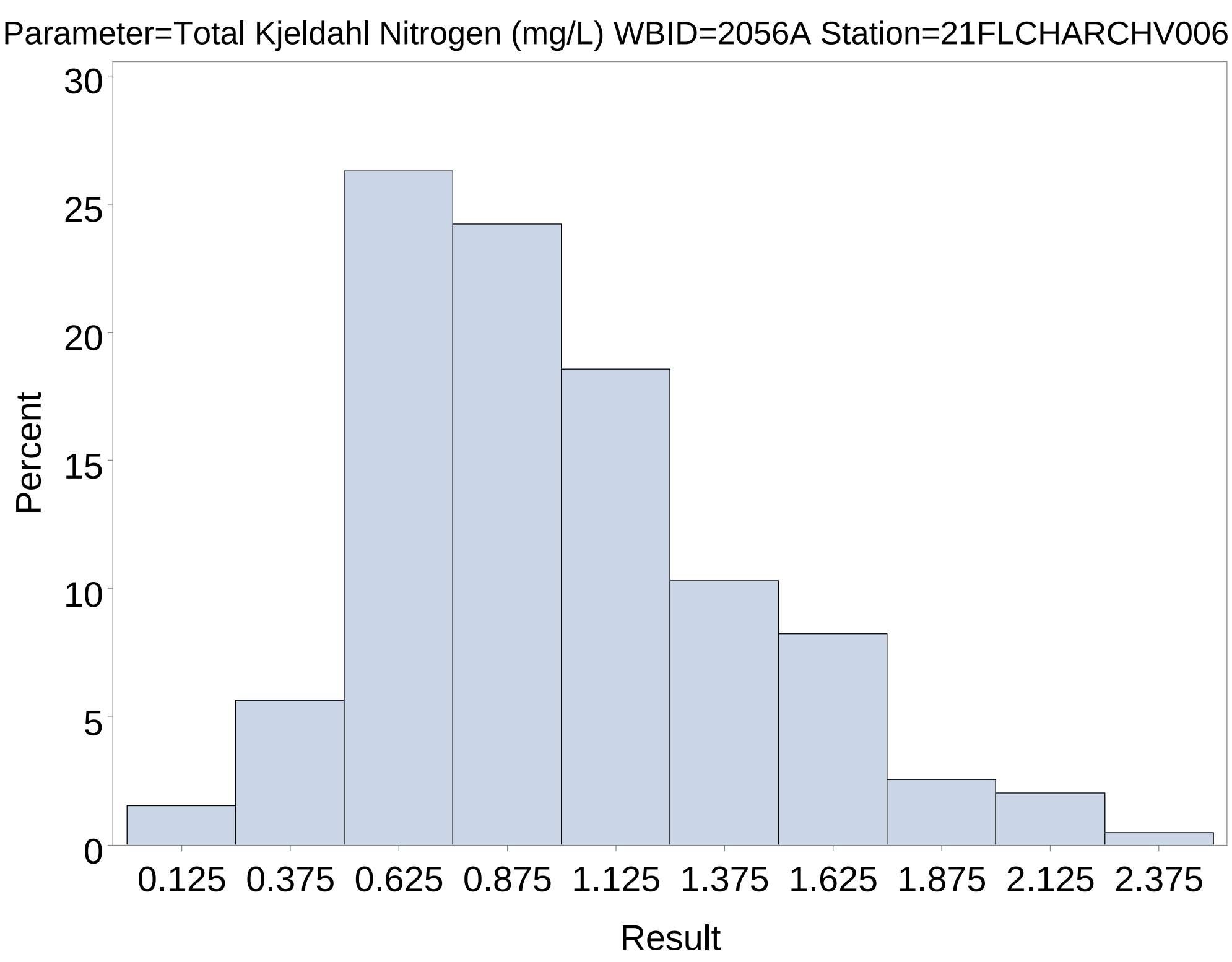
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.69579	**Pr > |t|**	<.0001
Sign	**M**	97	**Pr >= |M|**	<.0001
Signed Rank	**S**	9457.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.32
99%	2.20
95%	1.80
90%	1.50
75% Q3	1.20
50% Median	0.91
25% Q1	0.66
10%	0.54
5%	0.44
1%	0.10
0% Min	0.10

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	6221	2.00	6206
0.10	6213	2.20	6240
0.10	6212	2.20	6241
0.26	6301	2.20	6243
0.31	6336	2.32	6229


Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006
Percent
30
25
20
15
10
5
0
0.125
0.375
0.625
0.875
1.125
1.375
1.625
1.875
2.125
2.375
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013

Moments			
N	178	**Sum Weights**	178
Mean	1.13477528	**Sum Observations**	201.99
Std Deviation	0.50039668	**Variance**	0.25039684
Skewness	2.58358167	**Kurtosis**	14.3304577
Uncorrected SS	273.5335	**Corrected SS**	44.320241
Coeff Variation	44.0965443	**Std Error Mean**	0.03750632

Basic Statistical Measures			
Location		**Variability**	
Mean	1.134775	**Std Deviation**	0.50040
Median	1.100000	**Variance**	0.25040
Mode	1.300000	**Range**	4.50000
		Interquartile Range	0.47000

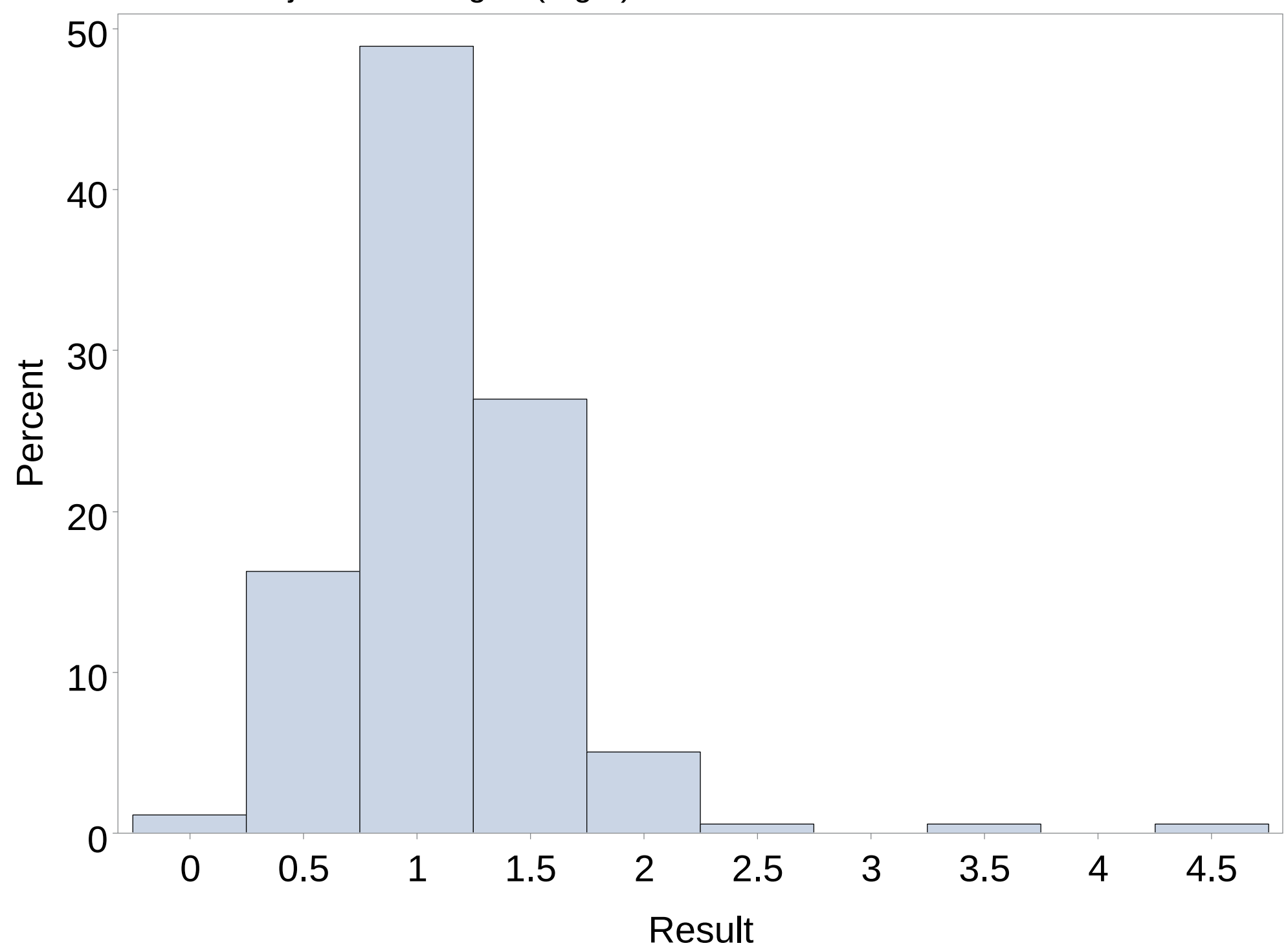
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.25558	**Pr > |t|**	<.0001
Sign	**M**	89	**Pr >= |M|**	<.0001
Signed Rank	**S**	7965.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.60
99%	3.40
95%	1.90
90%	1.60
75% Q3	1.30
50% Median	1.10
25% Q1	0.83
10%	0.69
5%	0.57
1%	0.10
0% Min	0.10

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	6390	2.10	6468
0.10	6386	2.18	6401
0.25	6407	2.60	6458
0.40	6398	3.40	6558
0.50	6395	4.60	6408


Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013
Percent
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460

Moments			
N	47	**Sum Weights**	47
Mean	1.00762411	**Sum Observations**	47.3583333
Std Deviation	0.2879527	**Variance**	0.08291676
Skewness	0.72085697	**Kurtosis**	-0.3195315
Uncorrected SS	51.5335694	**Corrected SS**	3.8141708
Coeff Variation	28.5773926	**Std Error Mean**	0.04200222

Basic Statistical Measures			
Location		**Variability**	
Mean	1.007624	**Std Deviation**	0.28795
Median	0.945000	**Variance**	0.08292
Mode	1.200000	**Range**	1.10000
		Interquartile Range	0.45000

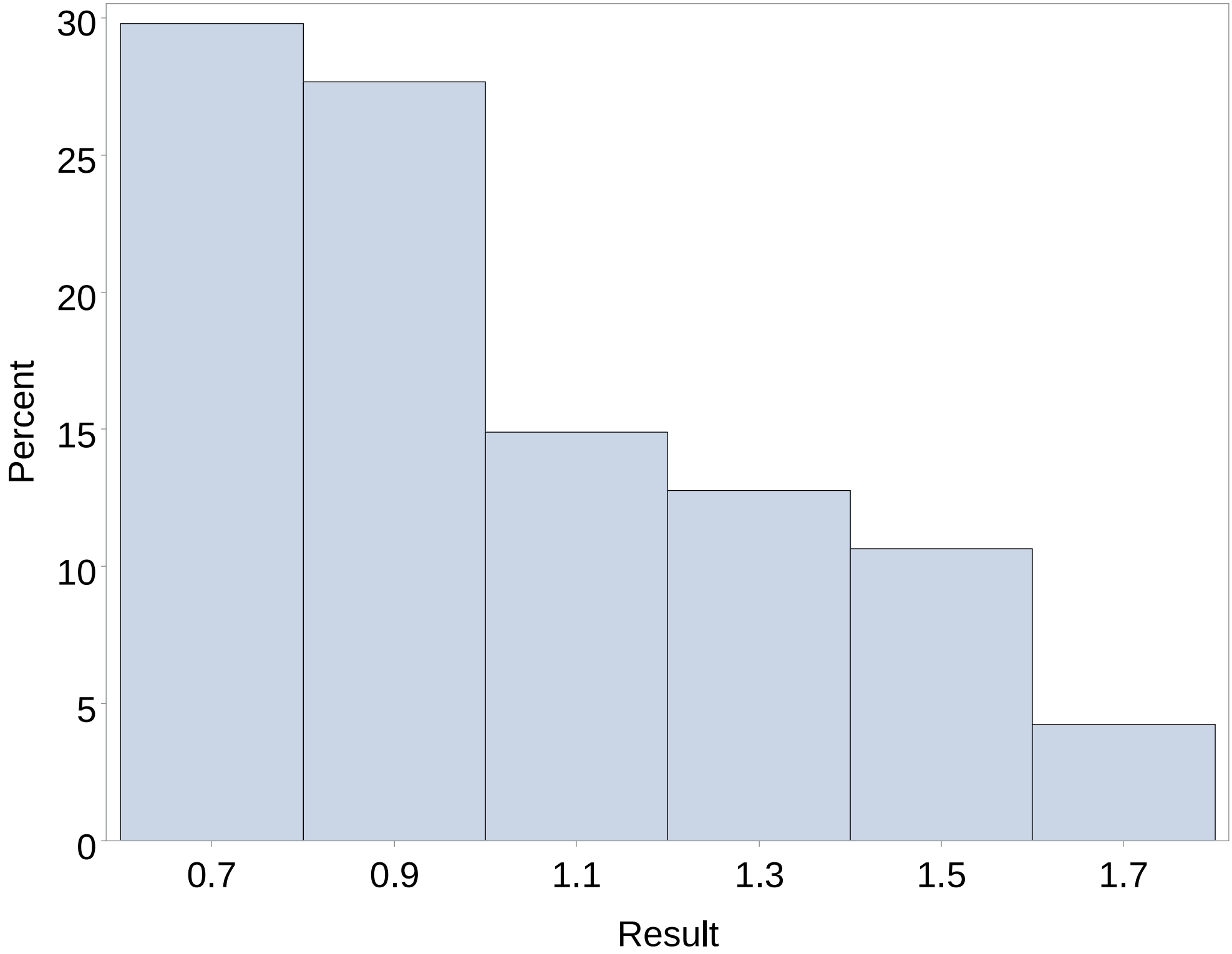
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.98978	**Pr > |t|**	<.0001
Sign	**M**	23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.700
99%	1.700
95%	1.550
90%	1.450
75% Q3	1.200
50% Median	0.945
25% Q1	0.750
10%	0.710
5%	0.650
1%	0.600
0% Min	0.600

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Kjeldahl Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.600	6591	1.45	6585
0.645	6589	1.50	6586
0.650	6563	1.55	6594
0.665	6564	1.65	6571
0.710	6602	1.70	6588


30
25
20
15
10
5
0
Percent
0.7
0.9
1.1
1.3
1.5
1.7
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	199	**Sum Weights**	199
Mean	1.02541206	**Sum Observations**	204.057
Std Deviation	0.4287956	**Variance**	0.18386567
Skewness	0.74677744	**Kurtosis**	0.54039414
Uncorrected SS	245.647911	**Corrected SS**	36.4054022
Coeff Variation	41.8169064	**Std Error Mean**	0.03039651

Basic Statistical Measures			
Location		**Variability**	
Mean	1.025412	**Std Deviation**	0.42880
Median	0.953000	**Variance**	0.18387
Mode	0.650000	**Range**	2.27000
		Interquartile Range	0.61000

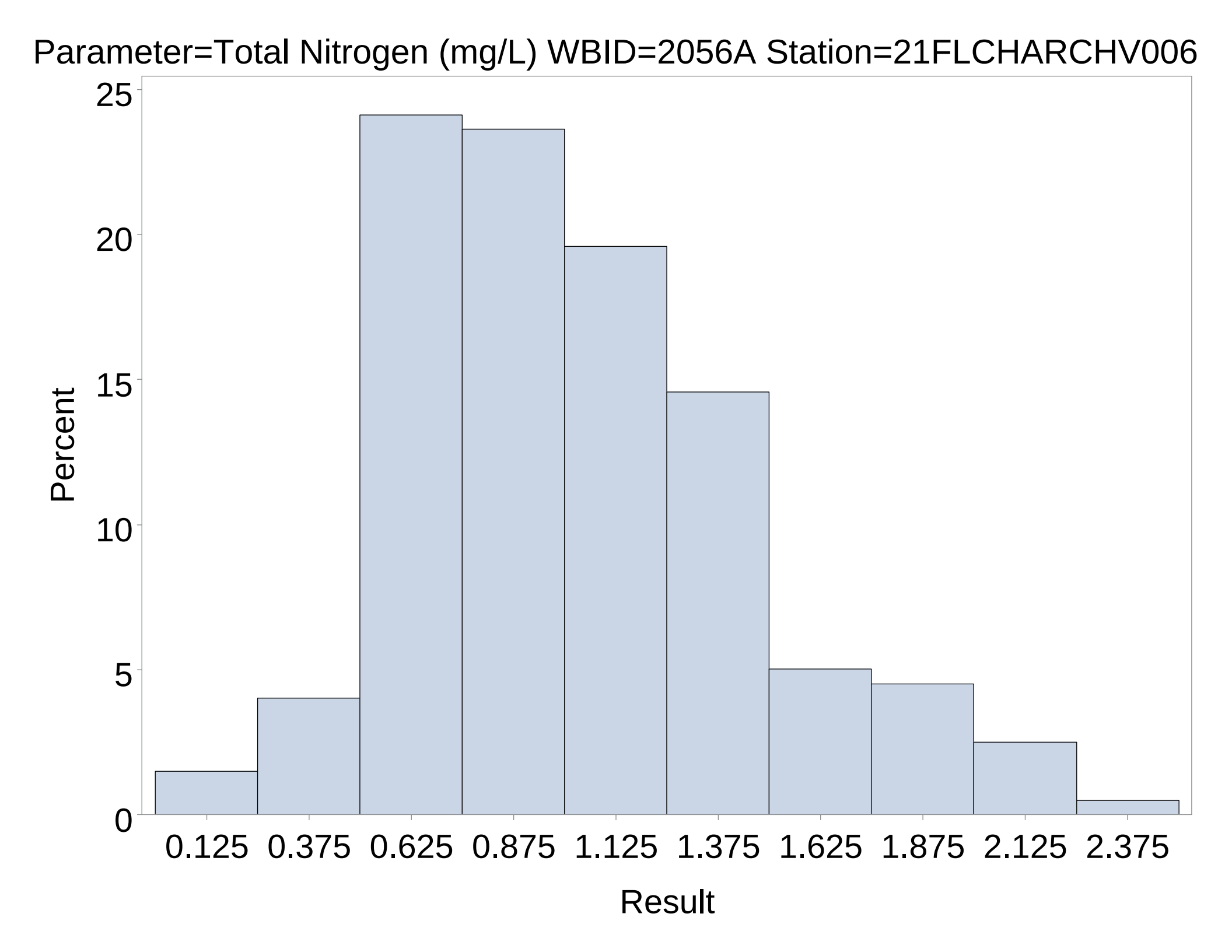
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.73453	**Pr > |t|**	<.0001
Sign	**M**	99.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	9950	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.420
99%	2.240
95%	1.870
90%	1.610
75% Q3	1.304
50% Median	0.953
25% Q1	0.694
10%	0.555
5%	0.485
1%	0.150
0% Min	0.150

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.150	6635	2.190	6629
0.150	6634	2.230	6666
0.210	6643	2.235	6662
0.265	6725	2.240	6663
0.318	6760	2.420	6651


Parameter=Total Nitrogen (mg/L) WBID=2056A Station=21FLCHARCHV006
Percent
25
20
15
10
5
0
0.125
0.375
0.625
0.875
1.125
1.375
1.625
1.875
2.125
2.375
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013

Moments			
N	180	**Sum Weights**	180
Mean	1.30167222	**Sum Observations**	234.301
Std Deviation	0.52788385	**Variance**	0.27866136
Skewness	1.99168864	**Kurtosis**	9.48274907
Uncorrected SS	354.863487	**Corrected SS**	49.8803837
Coeff Variation	40.5542842	**Std Error Mean**	0.03934614

Basic Statistical Measures			
Location		**Variability**	
Mean	1.301672	**Std Deviation**	0.52788
Median	1.255000	**Variance**	0.27866
Mode	1.450000	**Range**	4.45400
		Interquartile Range	0.56400

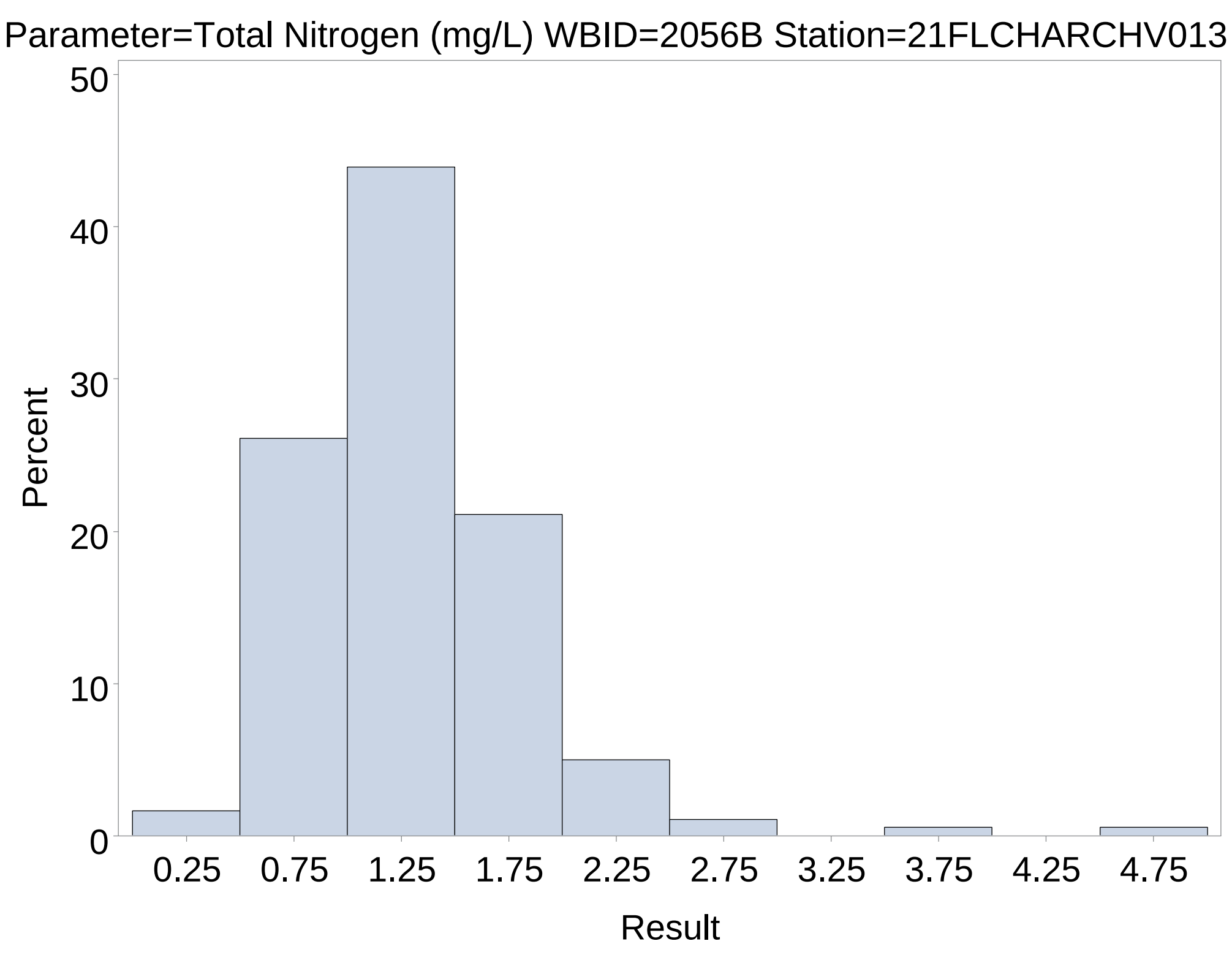
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.08259	**Pr > |t|**	<.0001
Sign	**M**	90	**Pr >= |M|**	<.0001
Signed Rank	**S**	8145	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.6040
99%	3.6100
95%	2.1400
90%	1.8600
75% Q3	1.5230
50% Median	1.2550
25% Q1	0.9590
10%	0.7685
5%	0.6910
1%	0.1800
0% Min	0.1500

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.150	6814	2.450	6893
0.180	6810	2.500	6892
0.350	6831	2.730	6883
0.564	6969	3.610	6984
0.627	6938	4.604	6832


Parameter=Total Nitrogen (mg/L) WBID=2056B Station=21FLCHARCHV013
Percent
50
40
30
20
10
0
0.25
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460

Moments			
N	47	**Sum Weights**	47
Mean	1.14218085	**Sum Observations**	53.6825
Std Deviation	0.44430188	**Variance**	0.19740416
Skewness	0.49297308	**Kurtosis**	-0.2439993
Uncorrected SS	70.3957148	**Corrected SS**	9.08059131
Coeff Variation	38.8994333	**Std Error Mean**	0.06480809

Basic Statistical Measures			
Location		**Variability**	
Mean	1.142181	**Std Deviation**	0.44430
Median	1.075000	**Variance**	0.19740
Mode	0.865000	**Range**	1.84063
		Interquartile Range	0.68500

Note: The mode displayed is the smallest of 7 modes with a count of 2.

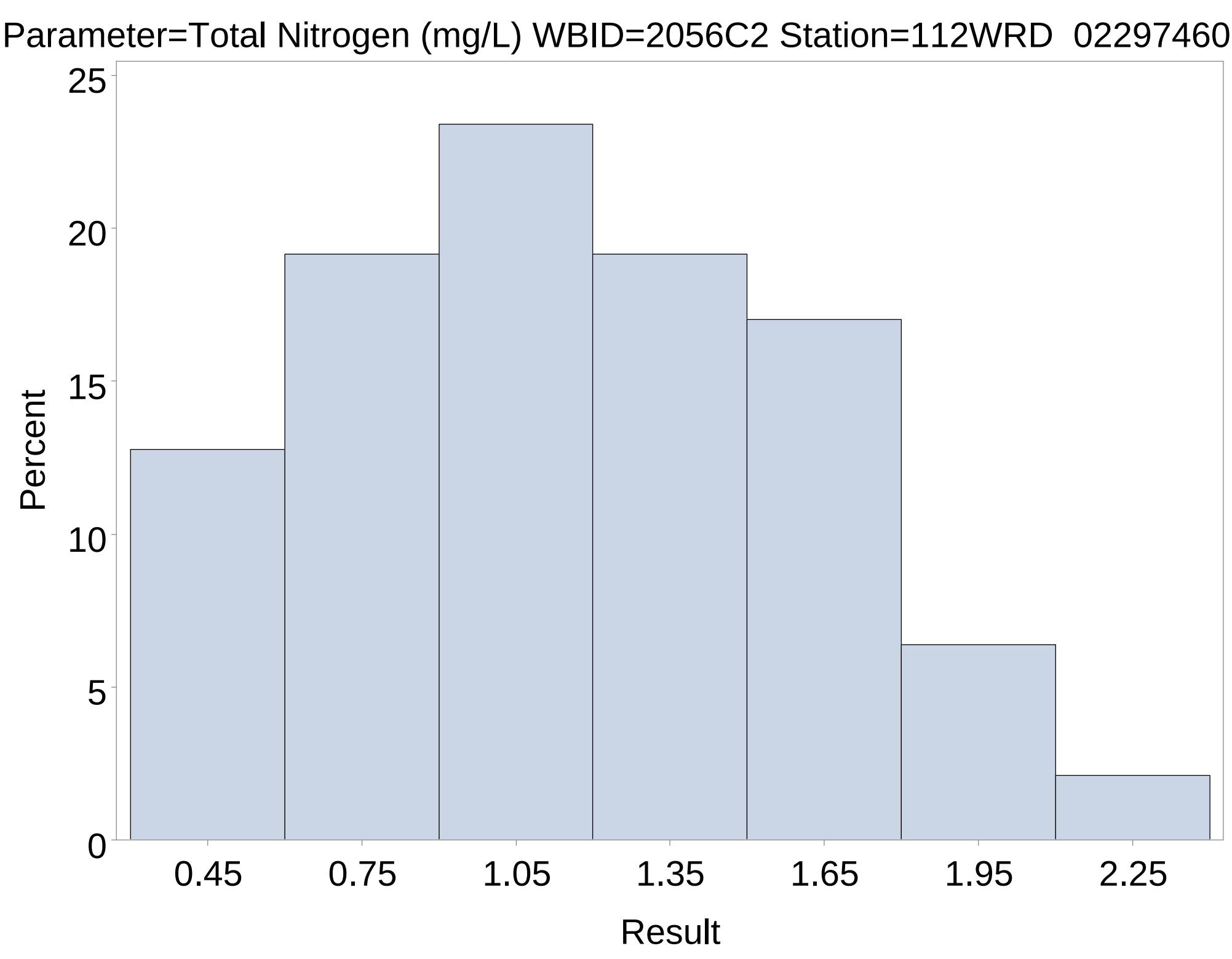
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.62405	**Pr > |t|**	<.0001
Sign	**M**	23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.300000
99%	2.300000
95%	1.850000
90%	1.750000
75% Q3	1.500000
50% Median	1.075000
25% Q1	0.815000
10%	0.550000
5%	0.468750
1%	0.459375
0% Min	0.459375

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.459375	7007	1.75	7012
0.459375	7031	1.80	7009
0.468750	7030	1.85	6998
0.525000	7008	2.05	6997
0.550000	7032	2.30	7020


Parameter=Total Nitrogen (mg/L) WBID=2056C2 Station=112WRD 02297460
25
20
15
10
5
0
Percent
0.45
0.75
1.05
1.35
1.65
1.95
2.25
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=TORTH WBID=2056C2 Station=112WRD 02297460

Moments			
N	47	**Sum Weights**	47
Mean	0.46173759	**Sum Observations**	21.7016667
Std Deviation	0.1282613	**Variance**	0.01645096
Skewness	0.25141692	**Kurtosis**	-0.3417093
Uncorrected SS	10.7772194	**Corrected SS**	0.75674421
Coeff Variation	27.7779637	**Std Error Mean**	0.01870883

Basic Statistical Measures			
Location		**Variability**	
Mean	0.461738	**Std Deviation**	0.12826
Median	0.460000	**Variance**	0.01645
Mode	0.400000	**Range**	0.56500
		Interquartile Range	0.18500

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

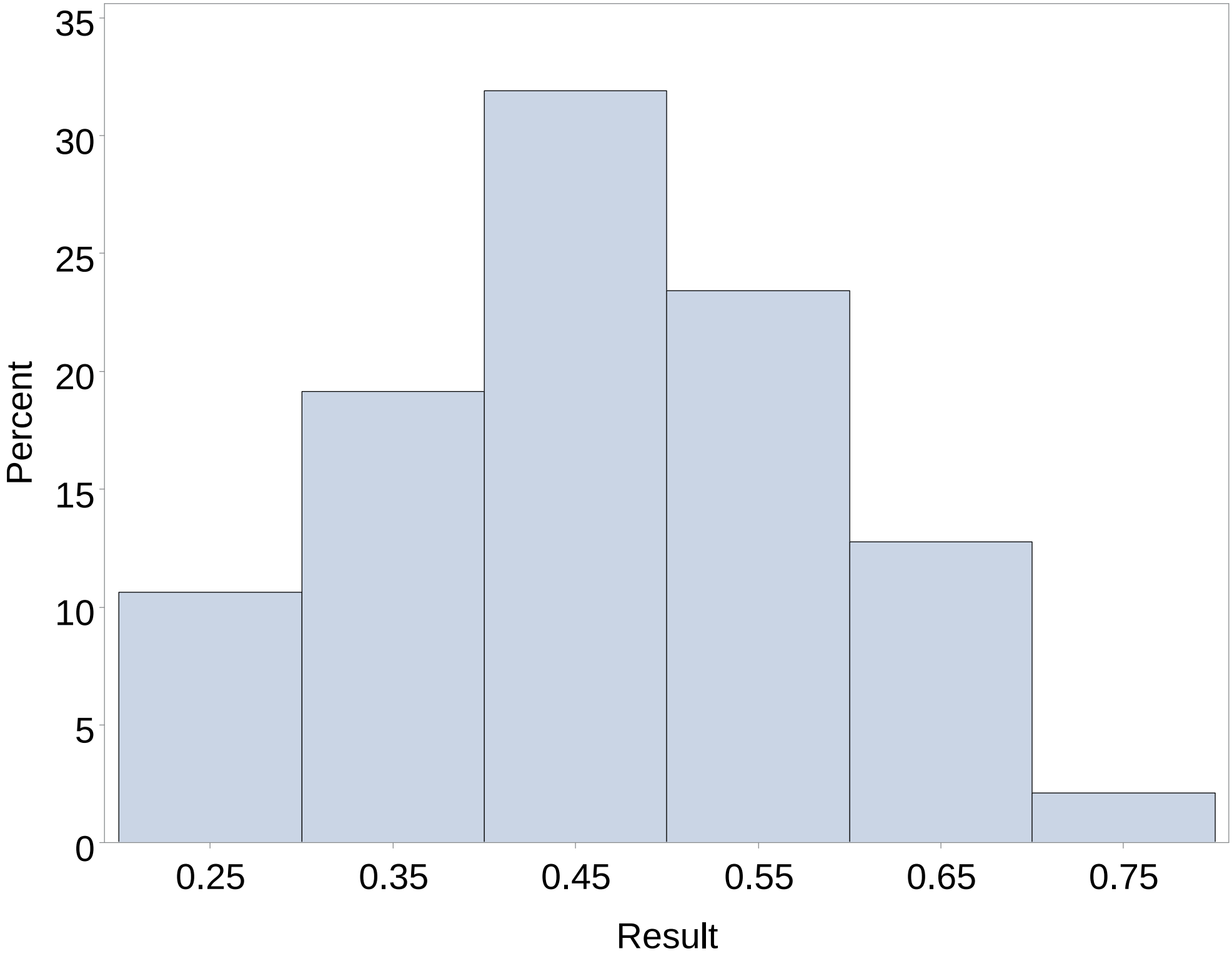
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.68019	**Pr > |t|**	<.0001
Sign	**M**	23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.770
99%	0.770
95%	0.685
90%	0.650
75% Q3	0.545
50% Median	0.460
25% Q1	0.360
10%	0.295
5%	0.280
1%	0.205
0% Min	0.205

The UNIVARIATE Procedure
Variable: Result

Parameter=TORTH WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.205	7077	0.650	7045
0.245	7074	0.680	7053
0.280	7076	0.685	7058
0.285	7036	0.690	7071
0.295	7038	0.770	7044


35
30
25
20
15
10
5
0
Percent
0.25
0.35
0.45
0.55
0.65
0.75
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Phosphorus (mg/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	196	**Sum Weights**	196
Mean	0.30107143	**Sum Observations**	59.01
Std Deviation	0.14740969	**Variance**	0.02172962
Skewness	0.99361609	**Kurtosis**	0.82921629
Uncorrected SS	22.0035	**Corrected SS**	4.237275
Coeff Variation	48.9616986	**Std Error Mean**	0.01052926

Basic Statistical Measures			
Location		**Variability**	
Mean	0.301071	**Std Deviation**	0.14741
Median	0.270000	**Variance**	0.02173
Mode	0.180000	**Range**	0.73000
		Interquartile Range	0.22000

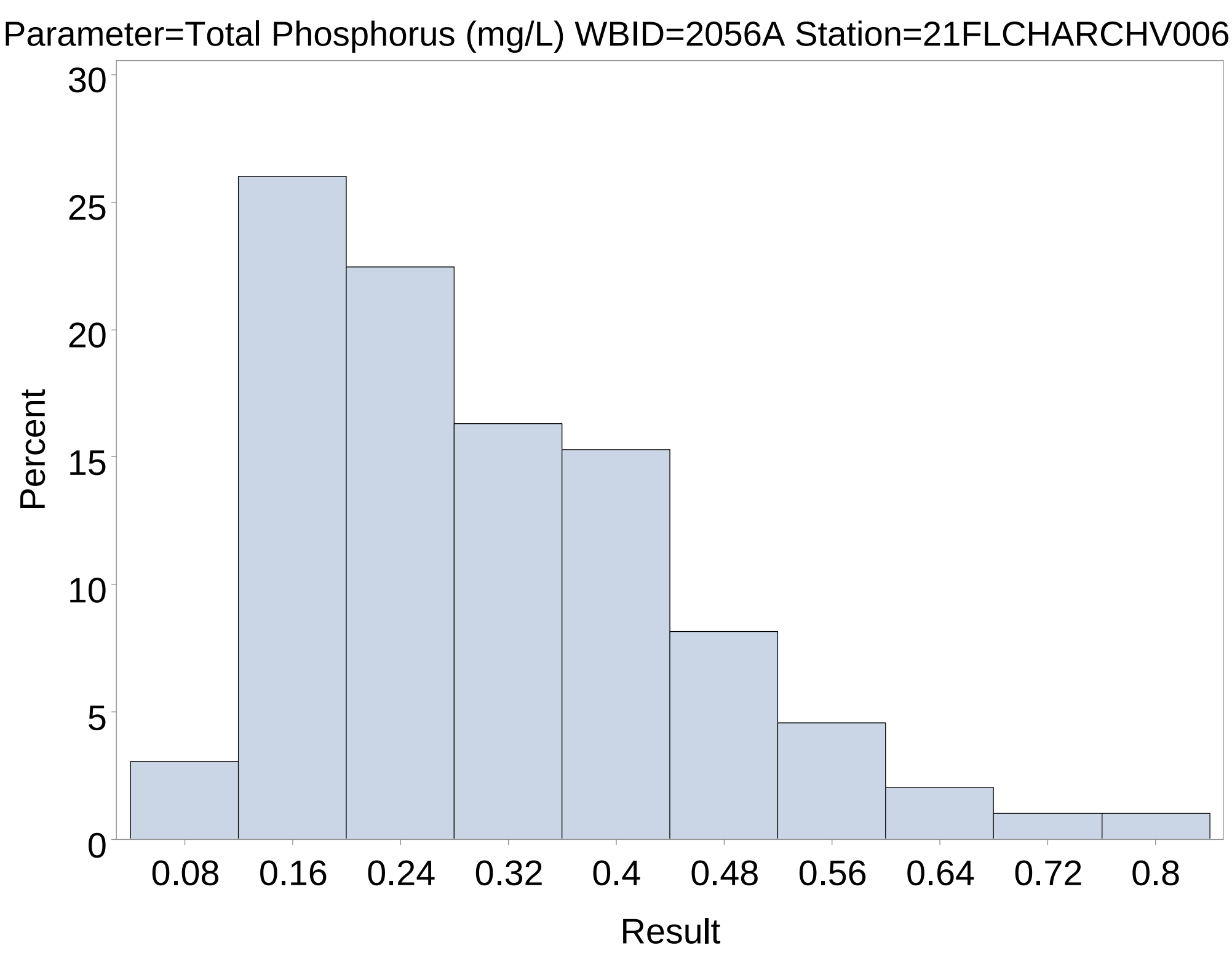
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.59378	**Pr > |t|**	<.0001
Sign	**M**	98	**Pr >= |M|**	<.0001
Signed Rank	**S**	9653	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.81
99%	0.81
95%	0.58
90%	0.49
75% Q3	0.40
50% Median	0.27
25% Q1	0.18
10%	0.14
5%	0.12
1%	0.10
0% Min	0.08

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Phosphorus (mg/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.08	7098	0.67	7270
0.10	7094	0.72	7133
0.11	7259	0.75	7120
0.11	7241	0.81	7110
0.11	7225	0.81	7136


Parameter=Total Phosphorus (mg/L) WBID=2056A Station=21FLCHARCHV006
Percent
30
25
20
15
10
5
0
0.08
0.16
0.24
0.32
0.4
0.48
0.56
0.64
0.72
0.8
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Phosphorus (mg/L) WBID=2056B Station=21FLCHARCHV013

Moments			
N	181	**Sum Weights**	181
Mean	0.62127072	**Sum Observations**	112.45
Std Deviation	0.21780735	**Variance**	0.04744004
Skewness	0.98708187	**Kurtosis**	1.39953364
Uncorrected SS	78.4011	**Corrected SS**	8.53920773
Coeff Variation	35.0583645	**Std Error Mean**	0.01618949

Basic Statistical Measures			
Location		**Variability**	
Mean	0.621271	**Std Deviation**	0.21781
Median	0.580000	**Variance**	0.04744
Mode	0.560000	**Range**	1.27000
		Interquartile Range	0.29000

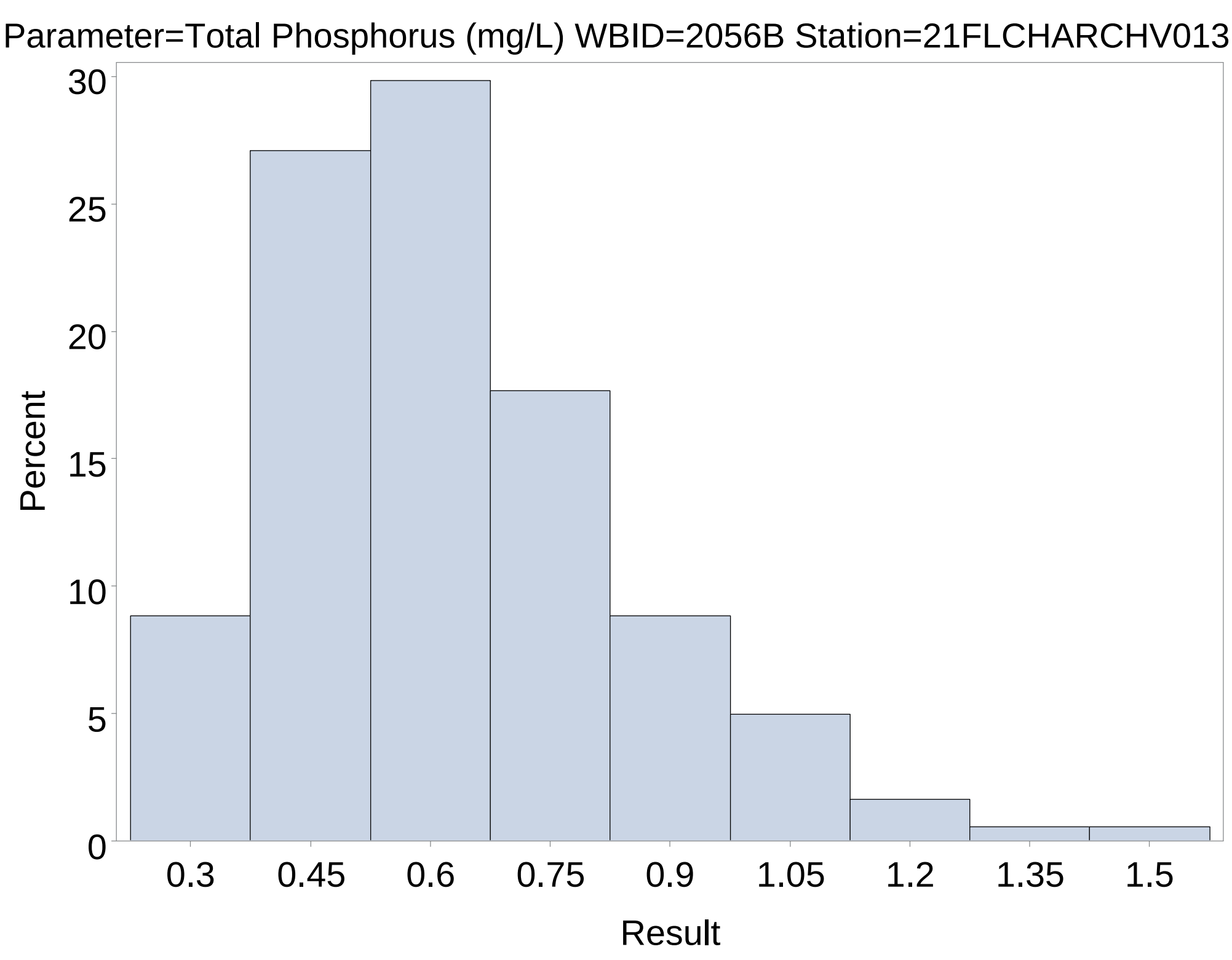
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.37493	**Pr > |t|**	<.0001
Sign	**M**	90.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	8235.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.50
99%	1.30
95%	1.00
90%	0.89
75% Q3	0.75
50% Median	0.58
25% Q1	0.46
10%	0.38
5%	0.34
1%	0.25
0% Min	0.23

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Phosphorus (mg/L) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.23	7409	1.2	7318
0.25	7390	1.2	7338
0.25	7302	1.2	7354
0.27	7425	1.3	7316
0.28	7387	1.5	7313


Parameter=Total Phosphorus (mg/L) WBID=2056B Station=21FLCHARCHV013
Percent
30
25
20
15
10
5
0
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
1.5
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Phosphorus (mg/L) WBID=2056C2 Station=112WRD 02297460

Moments			
N	47	**Sum Weights**	47
Mean	0.55592199	**Sum Observations**	26.1283333
Std Deviation	0.15612758	**Variance**	0.02437582
Skewness	0.65043863	**Kurtosis**	-0.0444981
Uncorrected SS	15.6466028	**Corrected SS**	1.12128783
Coeff Variation	28.0844412	**Std Error Mean**	0.02277355

Basic Statistical Measures			
Location		**Variability**	
Mean	0.555922	**Std Deviation**	0.15613
Median	0.540000	**Variance**	0.02438
Mode	0.645000	**Range**	0.64000
		Interquartile Range	0.21167

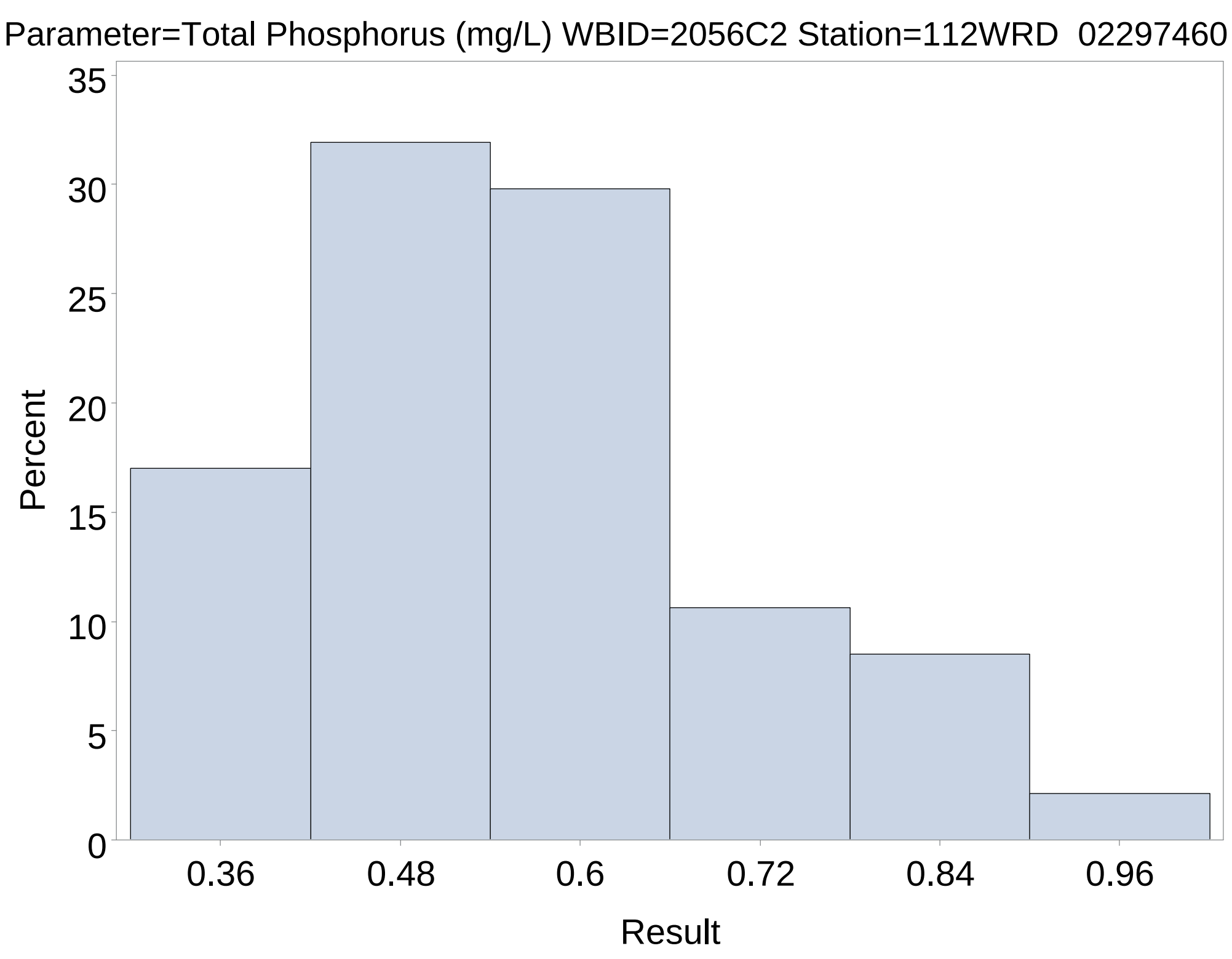
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.41086	**Pr > |t|**	<.0001
Sign	**M**	23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.975000
99%	0.975000
95%	0.840000
90%	0.785000
75% Q3	0.645000
50% Median	0.540000
25% Q1	0.433333
10%	0.365000
5%	0.340000
1%	0.335000
0% Min	0.335000

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Phosphorus (mg/L) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.335	7461	0.785	7469
0.340	7462	0.825	7468
0.340	7501	0.840	7477
0.345	7460	0.880	7485
0.365	7503	0.975	7483


Parameter=Total Phosphorus (mg/L) WBID=2056C2 Station=112WRD 02297460
35
30
25
20
15
10
5
0
Percent
0.36
0.48
0.6
0.72
0.84
0.96
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Suspended Solids (mg/L) WBID=2056A Station=21FLCHARCHV006

Moments			
N	10	**Sum Weights**	10
Mean	6.1	**Sum Observations**	61
Std Deviation	5.13051871	**Variance**	26.3222222
Skewness	1.74211401	**Kurtosis**	2.57104094
Uncorrected SS	609	**Corrected SS**	236.9
Coeff Variation	84.1068641	**Std Error Mean**	1.62241247

Basic Statistical Measures			
Location		**Variability**	
Mean	6.100000	**Std Deviation**	5.13052
Median	3.500000	**Variance**	26.32222
Mode	3.000000	**Range**	16.00000
		Interquartile Range	4.00000

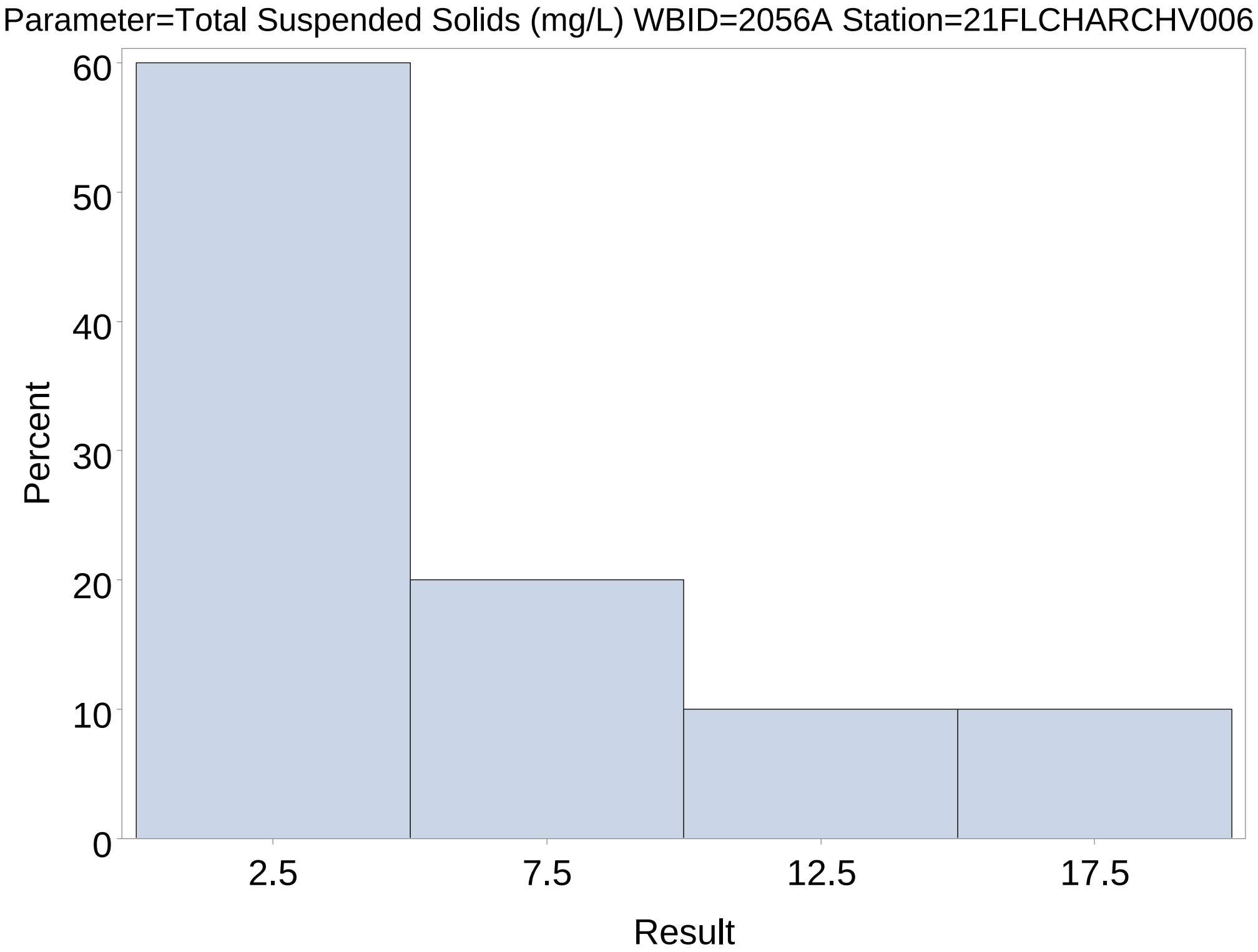
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	3.759833	**Pr > |t|**	0.0045
Sign	**M**	5	**Pr >= |M|**	0.0020
Signed Rank	**S**	27.5	**Pr >= |S|**	0.0020

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.0
99%	18.0
95%	18.0
90%	15.0
75% Q3	7.0
50% Median	3.5
25% Q1	3.0
10%	2.5
5%	2.0
1%	2.0
0% Min	2.0

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Suspended Solids (mg/L) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2	7510	4	7512
3	7511	6	7508
3	7509	7	7505
3	7506	12	7513
3	7504	18	7507


Parameter=Total Suspended Solids (mg/L) WBID=2056A Station=21FLCHARCHV006
60
50
40
30
20
10
0
Percent
2.5
7.5
12.5
17.5
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Suspended Solids (mg/L) WBID=2056C2 Station=112WRD 02297460

Moments			
N	47	**Sum Weights**	47
Mean	18.5629433	**Sum Observations**	872.458333
Std Deviation	13.44637	**Variance**	180.804867
Skewness	1.35386051	**Kurtosis**	2.17117084
Uncorrected SS	24512.4184	**Corrected SS**	8317.02386
Coeff Variation	72.4366272	**Std Error Mean**	1.96135465

Basic Statistical Measures			
Location		**Variability**	
Mean	18.56294	**Std Deviation**	13.44637
Median	15.50000	**Variance**	180.80487
Mode	10.50000	**Range**	64.37500
		Interquartile Range	13.00000

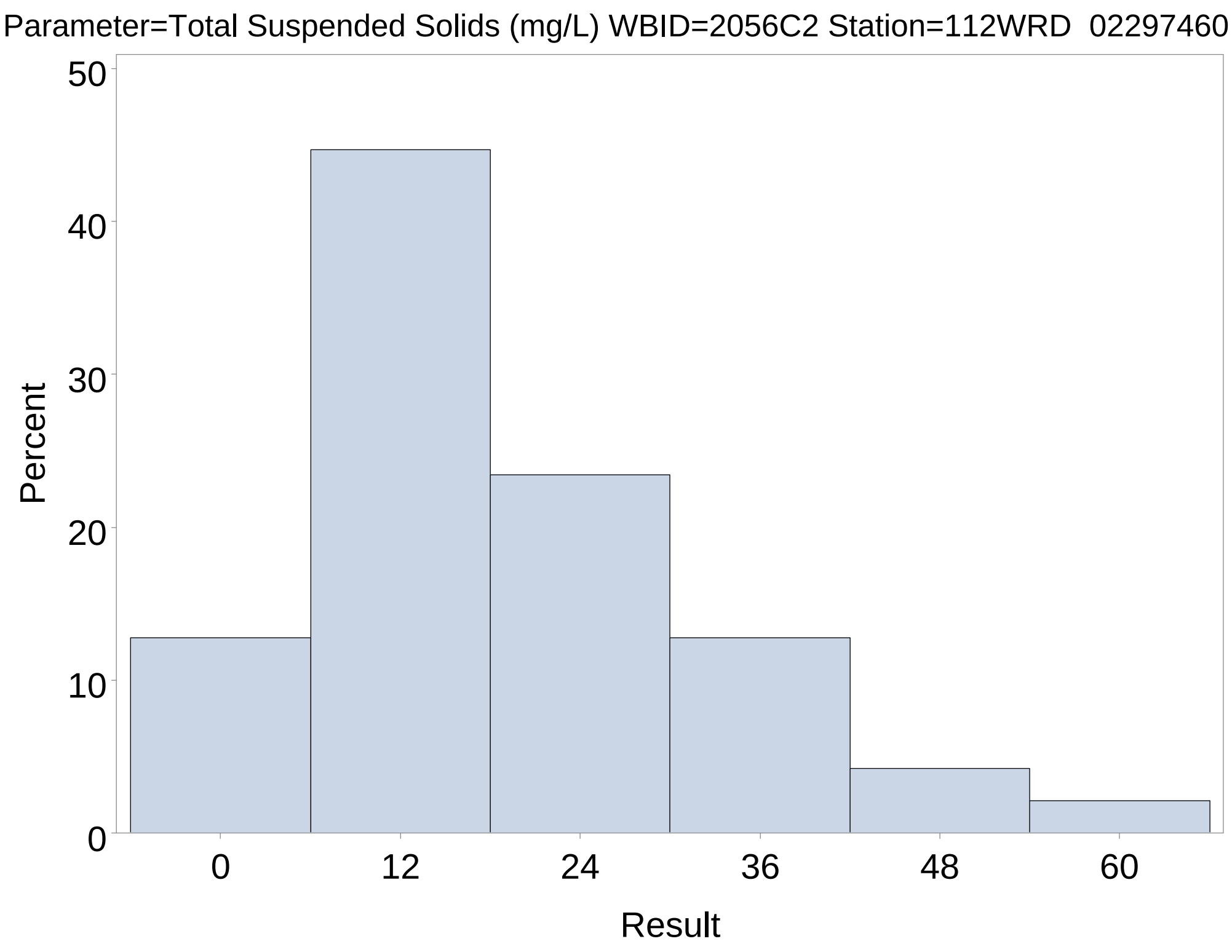
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.464348	**Pr > |t|**	<.0001
Sign	**M**	23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	65.000
99%	65.000
95%	42.500
90%	38.000
75% Q3	23.000
50% Median	15.500
25% Q1	10.000
10%	5.000
5%	3.000
1%	0.625
0% Min	0.625

The UNIVARIATE Procedure
Variable: Result

Parameter=Total Suspended Solids (mg/L) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.625	7552	38.0	7540
1.500	7531	40.0	7555
3.000	7550	42.5	7557
4.500	7549	51.0	7558
5.000	7525	65.0	7542


Parameter=Total Suspended Solids (mg/L) WBID=2056C2 Station=112WRD 02297460
50
40
30
20
10
0
Percent
0
12
24
36
48
60
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056A Station=21FLCHARCHV006

Moments			
N	205	**Sum Weights**	205
Mean	3.53595122	**Sum Observations**	724.87
Std Deviation	3.03271698	**Variance**	9.19737225
Skewness	4.90803026	**Kurtosis**	33.5016625
Uncorrected SS	4439.3689	**Corrected SS**	1876.26394
Coeff Variation	85.768066	**Std Error Mean**	0.21181414

Basic Statistical Measures			
Location		**Variability**	
Mean	3.535951	**Std Deviation**	3.03272
Median	2.800000	**Variance**	9.19737
Mode	2.200000	**Range**	29.10000
		Interquartile Range	1.70000

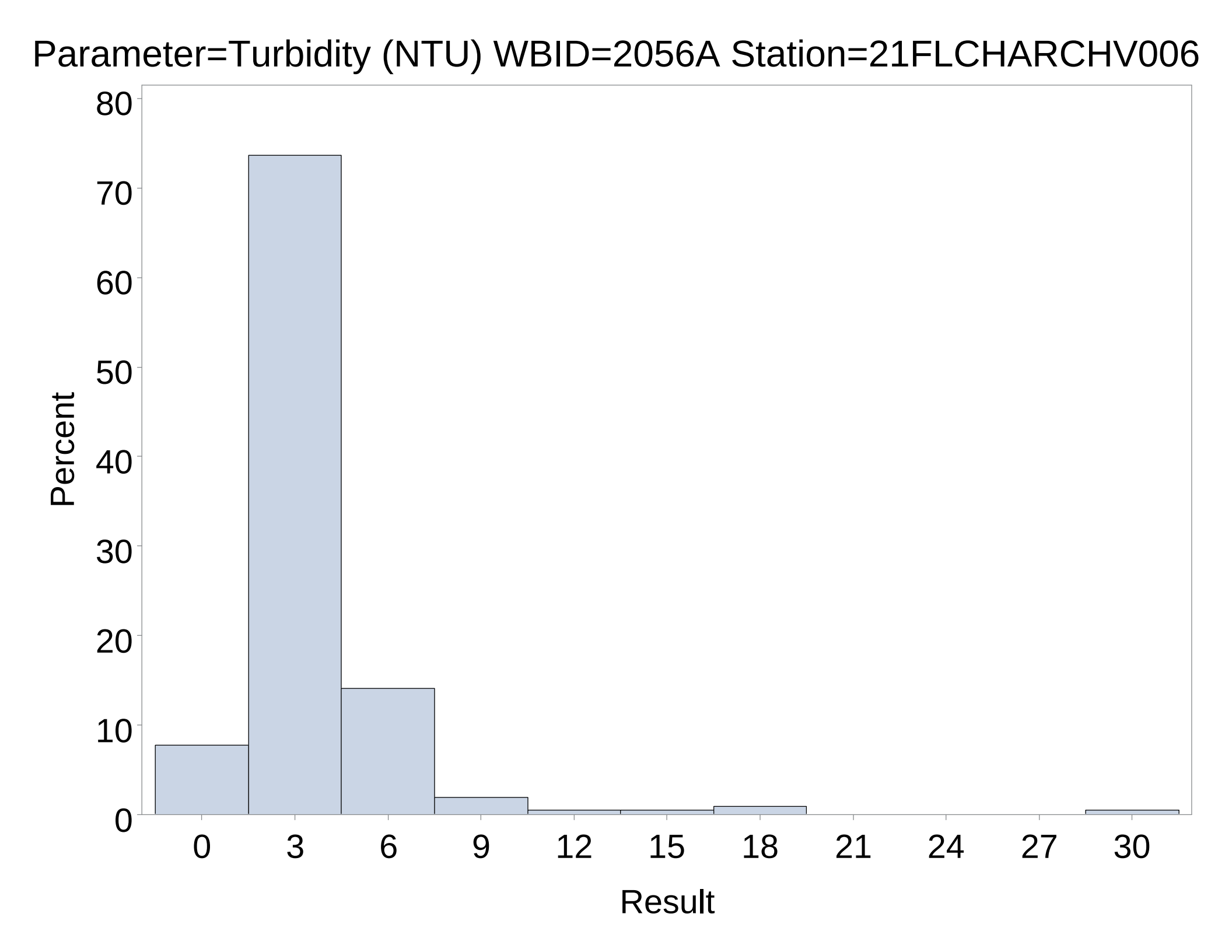
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.69365	**Pr > |t|**	<.0001
Sign	**M**	102.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10557.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.00
99%	18.00
95%	7.00
90%	6.00
75% Q3	3.90
50% Median	2.80
25% Q1	2.20
10%	1.54
5%	1.32
1%	1.00
0% Min	0.90

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056A Station=21FLCHARCHV006

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.9	7723	11.7	7643
1.0	7750	16.0	7562
1.0	7714	18.0	7618
1.0	7599	18.0	7659
1.1	7716	30.0	7760


Parameter=Turbidity (NTU) WBID=2056A Station=21FLCHARCHV006
Percent
80
70
60
50
40
30
20
10
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056A Station=21FLSEAS60SEAS050

Moments			
N	263	**Sum Weights**	263
Mean	3.15939163	**Sum Observations**	830.92
Std Deviation	4.61219877	**Variance**	21.2723775
Skewness	5.25022011	**Kurtosis**	34.4212183
Uncorrected SS	8198.5646	**Corrected SS**	5573.3629
Coeff Variation	145.983762	**Std Error Mean**	0.28440036

Basic Statistical Measures			
Location		**Variability**	
Mean	3.159392	**Std Deviation**	4.61220
Median	1.900000	**Variance**	21.27238
Mode	1.200000	**Range**	41.68000
		Interquartile Range	1.80000

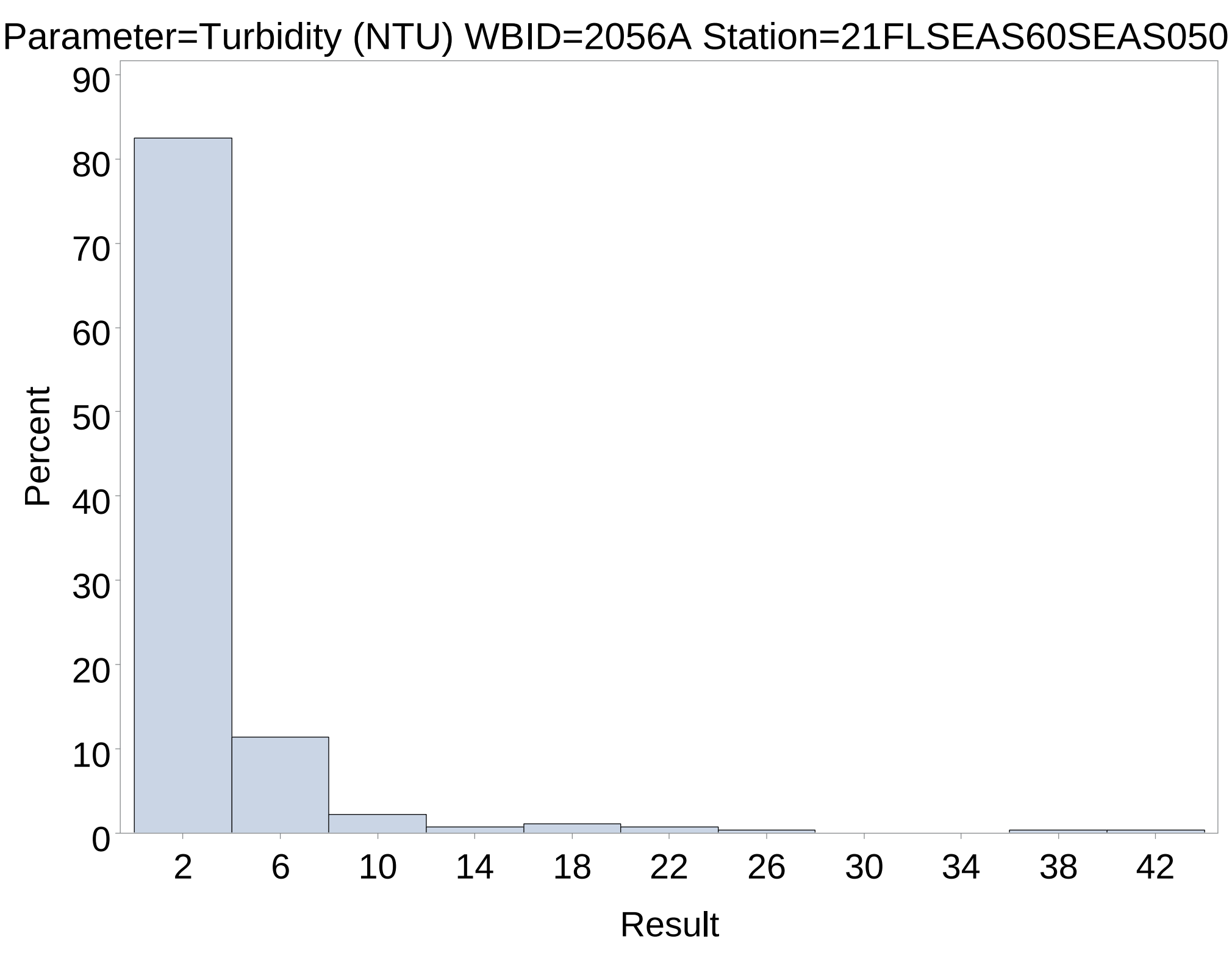
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.10896	**Pr > |t|**	<.0001
Sign	**M**	131.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17358	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42.00
99%	26.00
95%	8.50
90%	6.00
75% Q3	3.00
50% Median	1.90
25% Q1	1.20
10%	0.90
5%	0.80
1%	0.50
0% Min	0.32

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056A Station=21FLSEAS60SEAS050

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.32	7924	20	7949
0.40	7996	20	7964
0.50	8005	26	7838
0.50	7992	38	7776
0.50	7985	42	7947


Parameter=Turbidity (NTU) WBID=2056A Station=21FLSEAS60SEAS050
Percent
90
80
70
60
50
40
30
20
10
0
2
6
10
14
18
22
26
30
34
38
42
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056B Station=21FLCHARCHV013

Moments			
N	184	**Sum Weights**	184
Mean	4.07190217	**Sum Observations**	749.23
Std Deviation	2.17767113	**Variance**	4.74225155
Skewness	4.70186147	**Kurtosis**	38.0909014
Uncorrected SS	3918.6233	**Corrected SS**	867.832034
Coeff Variation	53.4804383	**Std Error Mean**	0.16054005

Basic Statistical Measures			
Location		**Variability**	
Mean	4.071902	**Std Deviation**	2.17767
Median	3.700000	**Variance**	4.74225
Mode	3.200000	**Range**	22.80000
		Interquartile Range	1.70500

Note: The mode displayed is the smallest of 3 modes with a count of 8.

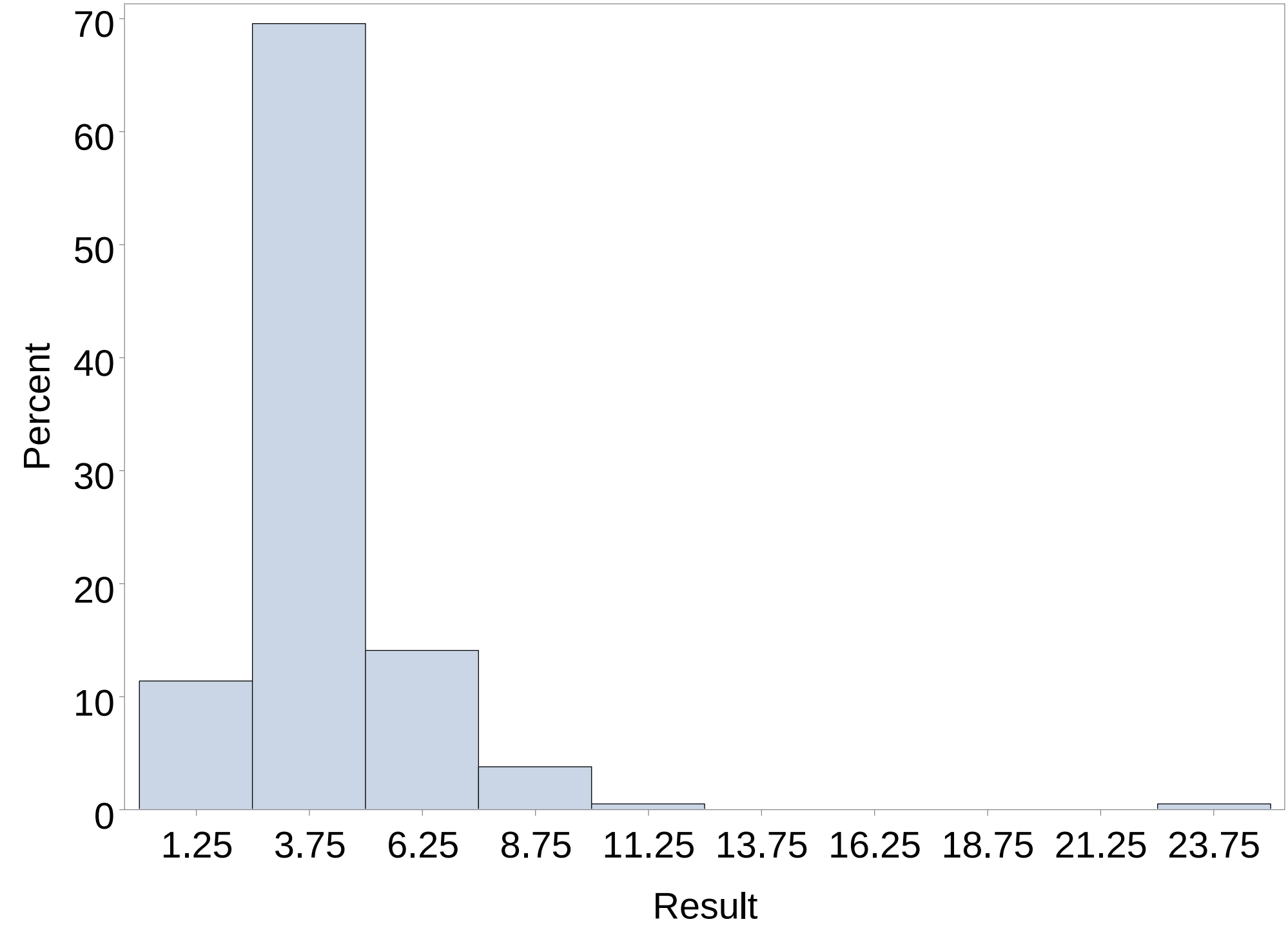
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.36378	**Pr > |t|**	<.0001
Sign	**M**	92	**Pr >= |M|**	<.0001
Signed Rank	**S**	8510	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.000
99%	10.400
95%	7.300
90%	6.200
75% Q3	4.555
50% Median	3.700
25% Q1	2.850
10%	2.400
5%	2.000
1%	1.400
0% Min	1.200

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056B Station=21FLCHARCHV013

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.20	8038	8.7	8136
1.40	8084	9.4	8071
1.42	8041	9.6	8105
1.60	8202	10.4	8077
1.70	8165	24.0	8057


Parameter=Turbidity (NTU) WBID=2056B Station=21FLCHARCHV013
Percent
70
60
50
40
30
20
10
0
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056C2 Station=112WRD 02297460

Moments			
N	47	**Sum Weights**	47
Mean	4.18890071	**Sum Observations**	196.878333
Std Deviation	3.22103744	**Variance**	10.3750822
Skewness	1.56995911	**Kurtosis**	2.32443982
Uncorrected SS	1301.95757	**Corrected SS**	477.253779
Coeff Variation	76.8945759	**Std Error Mean**	0.4698366

Basic Statistical Measures			
Location		**Variability**	
Mean	4.188901	**Std Deviation**	3.22104
Median	3.250000	**Variance**	10.37508
Mode	2.850000	**Range**	14.15000
		Interquartile Range	3.65000

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

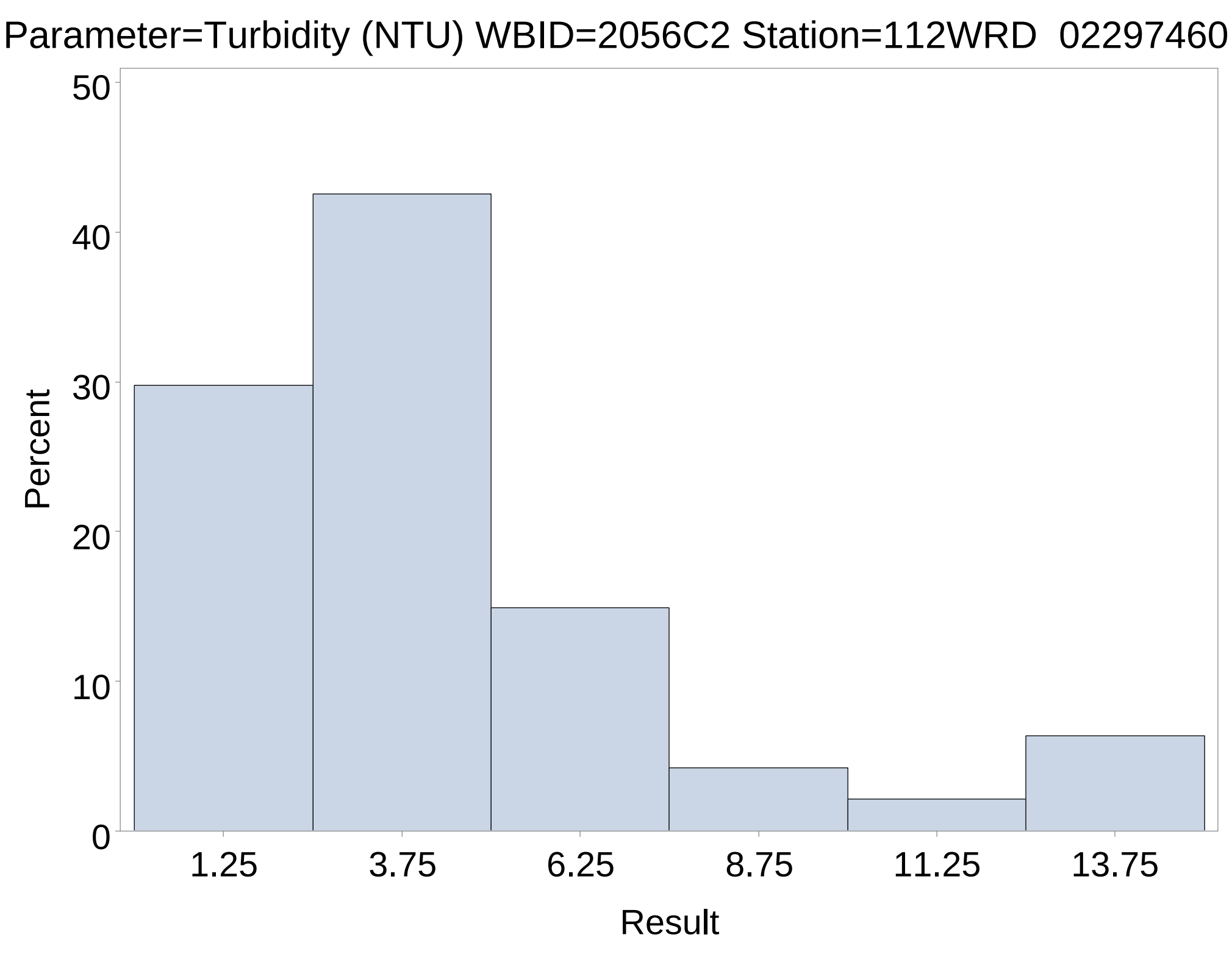
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.915654	**Pr > |t|**	<.0001
Sign	**M**	23.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	564	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.450
99%	14.450
95%	12.550
90%	8.900
75% Q3	5.800
50% Median	3.250
25% Q1	2.150
10%	1.115
5%	0.930
1%	0.300
0% Min	0.300

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2056C2 Station=112WRD 02297460

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.300	8246	8.90	8232
0.350	8245	10.00	8256
0.930	8247	12.55	8241
1.050	8223	12.60	8213
1.115	8242	14.45	8239


Parameter=Turbidity (NTU) WBID=2056C2 Station=112WRD 02297460
50
40
30
20
10
0
Percent
1.25
3.75
6.25
8.75
11.25
13.75
Result

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2065A Station=21FLSEAS60SEAS130

Moments			
N	269	**Sum Weights**	269
Mean	2.33137546	**Sum Observations**	627.14
Std Deviation	3.94350713	**Variance**	15.5512485
Skewness	9.61334482	**Kurtosis**	115.009272
Uncorrected SS	5629.8334	**Corrected SS**	4167.73459
Coeff Variation	169.149379	**Std Error Mean**	0.24043987

Basic Statistical Measures			
Location		**Variability**	
Mean	2.331375	**Std Deviation**	3.94351
Median	1.600000	**Variance**	15.55125
Mode	1.600000	**Range**	53.77000
		Interquartile Range	1.40000

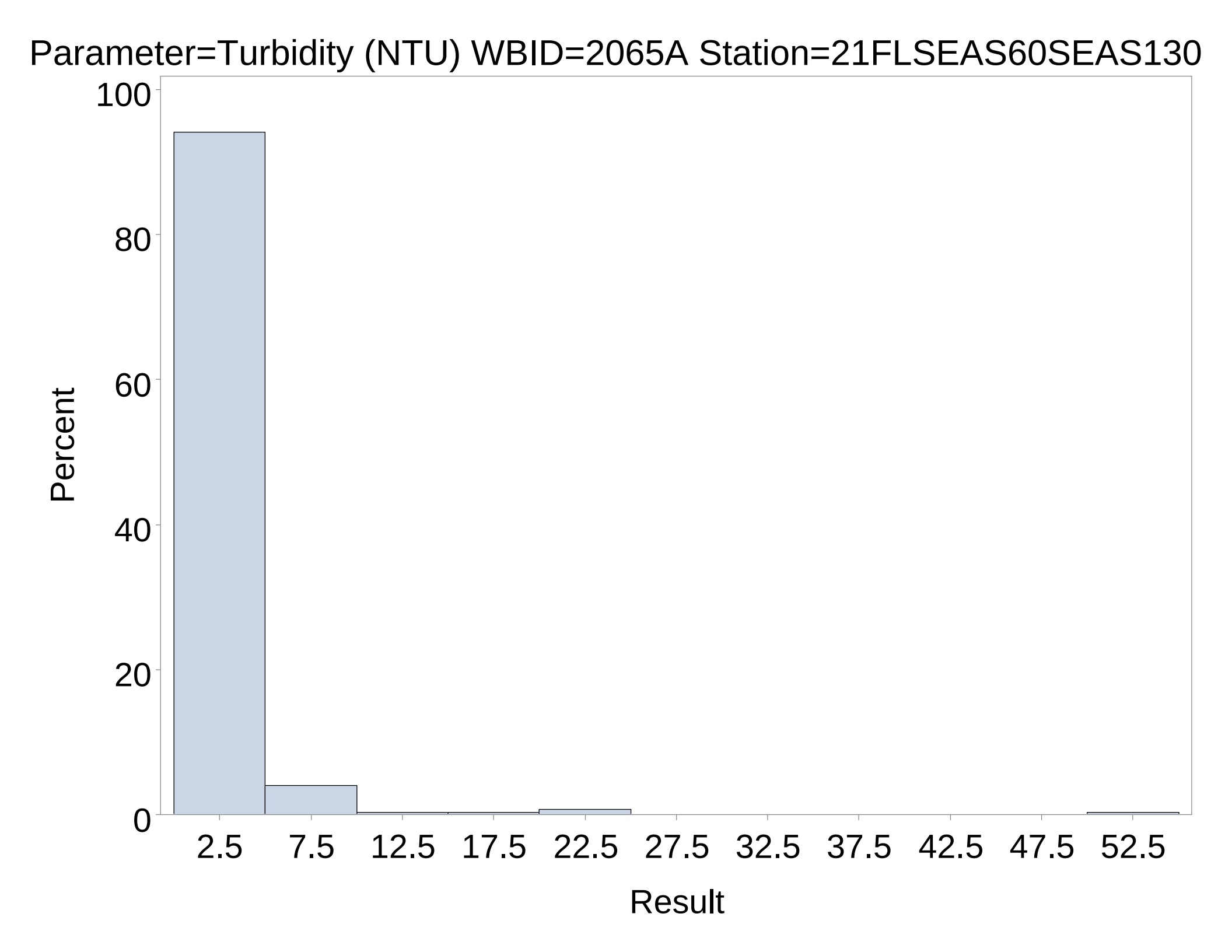
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.696293	**Pr > |t|**	<.0001
Sign	**M**	134.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18157.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	54.00
99%	20.00
95%	5.20
90%	3.60
75% Q3	2.40
50% Median	1.60
25% Q1	1.00
10%	0.70
5%	0.58
1%	0.30
0% Min	0.23

The UNIVARIATE Procedure
Variable: Result

Parameter=Turbidity (NTU) WBID=2065A Station=21FLSEAS60SEAS130

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.23	8434	11	8467
0.25	8435	15	8420
0.30	8505	20	8510
0.31	8423	24	8337
0.34	8298	54	8446


Parameter=Turbidity (NTU) WBID=2065A Station=21FLSEAS60SEAS130
Percent
100
80
60
40
20
0
2.5
7.5
12.5
17.5
22.5
27.5
32.5
37.5
42.5
47.5
52.5
Result

APPENDIX D

Shell Creek HBMP Water Quality Summary Statistics

Obs	parameter	_TYPE_	_FREQ_	startdate	enddate	numsamps
1	Alkalinity (mg/L)	0	1009	14FEB1991	05DEC2018	1009
2	Chlorophyll a (ug/L)	0	2920	14FEB1991	05DEC2018	2920
3	Chloride (mg/L)	0	1000	14FEB1991	05DEC2018	1000
4	Color (CPU)	0	2984	14FEB1991	05DEC2018	2984
5	Bottom Conductivity (us/cm)	0	6323	14FEB1991	05DEC2018	6323
6	Surface Conductivity (us/cm)	0	6291	14FEB1991	05DEC2018	6291
7	Water Column Average Conductivity (us/cm)	0	6327	14FEB1991	05DEC2018	6327
8	Bottom Dissolved Oxygen (mg/L)	0	6302	14FEB1991	05DEC2018	6302
9	Surface Dissolved Oxygen (mg/L)	0	6271	14FEB1991	05DEC2018	6271
10	Water Column Average DO (mg/L)	0	6308	14FEB1991	05DEC2018	6308
11	Sample Depth (m)	0	978	08JAN2008	08NOV2017	978
12	Extinction Coeefficient (m-1)	0	1197	14FEB1991	07SEP2005	1197
13	Nitrate + Nitrite Nitrogen (mg/L)	0	2927	14FEB1991	05DEC2018	2927
14	Ammonia/Ammonium (mg/L)	0	2552	14FEB1991	11DEC2014	2552
15	Orthophosphate (mg/L)	0	2969	14FEB1991	05DEC2018	2969
16	OPD	0	1249	14FEB1991	07DEC2005	1249
17	ORP_Bottom	0	1938	14FEB1991	08DEC2000	1938
18	ORP_Surface	0	1934	14FEB1991	08DEC2000	1934
19	ORP_average	0	1939	14FEB1991	08DEC2000	1939
20	Chlorophyll a Phaeophytin (ug/L)	0	2941	14FEB1991	05DEC2018	2941
21	Bottom pH (std. units)	0	6314	14FEB1991	05DEC2018	6314
22	Surface pH (std. units)	0	6284	14FEB1991	05DEC2018	6284
23	Water Column Average pH (std. units)	0	6319	14FEB1991	05DEC2018	6319
24	Bottom Salinity (psu)	0	6327	14FEB1991	05DEC2018	6327
25	Surface Salinity (psu)	0	6297	14FEB1991	05DEC2018	6297
26	Water Column Average Salinity (psu)	0	6327	14FEB1991	05DEC2018	6327
27	Silica (mg/L)	0	2976	14FEB1991	05DEC2018	2976
28	Bottom Temperature (deg C)	0	6331	14FEB1991	05DEC2018	6331
29	Surface Temperature (deg C)	0	6294	14FEB1991	05DEC2018	6294
30	Water Column Average Temperature (deg C)	0	6330	14FEB1991	05DEC2018	6330
31	Total Kjeldahl Nitrogen (mg/L)	0	2972	14FEB1991	05DEC2018	2972
32	Total Nitrogen (mg/L)	0	2924	14FEB1991	05DEC2018	2924
33	Total Organic Carbon (mg/L)	0	649	05JAN2001	05DEC2018	649
34	Total Phosphorus (mg/L)	0	2980	14FEB1991	05DEC2018	2980
35	Total Suspended Solids (mg/L)	0	2984	14FEB1991	05DEC2018	2984
36	Turbidity (NTU)	0	2985	14FEB1991	05DEC2018	2985

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
1	Chlorophyll a (ug/L)	1	14FEB1991	05DEC2018	321	3.1811214953	0.3	41
2	Chlorophyll a (ug/L)	2	14FEB1991	05DEC2018	324	6.3279938272	0.5	80
3	Chlorophyll a (ug/L)	3	14FEB1991	05DEC2018	324	11.220740741	0.3	153
4	Chlorophyll a (ug/L)	4	14FEB1991	05DEC2018	323	11.435913313	0.5	73.4
5	Chlorophyll a (ug/L)	5	14FEB1991	05DEC2018	325	11.363384615	0.1	125
6	Chlorophyll a (ug/L)	6	14FEB1991	05DEC2018	325	9.5809538462	0.2	88
7	Chlorophyll a (ug/L)	7	14FEB1991	05DEC2018	325	12.069692308	0.5	107.2
8	Chlorophyll a (ug/L)	8	14FEB1991	05DEC2018	326	15.116441718	0.5	224.6
9	Chlorophyll a (ug/L)	9	14FEB1991	05DEC2018	327	16.403730887	0.5	441.3
10	Color (CPU)	1	14FEB1991	05DEC2018	331	136.081571	12	500
11	Color (CPU)	2	14FEB1991	05DEC2018	332	109.80120482	10	500
12	Color (CPU)	3	14FEB1991	05DEC2018	332	125.25903614	10	600
13	Color (CPU)	4	14FEB1991	05DEC2018	331	133.31117825	20	600
14	Color (CPU)	5	14FEB1991	05DEC2018	332	130.34036145	20	700
15	Color (CPU)	6	14FEB1991	05DEC2018	332	129.51506024	10	500
16	Color (CPU)	7	14FEB1991	05DEC2018	330	133.09393939	20	490
17	Color (CPU)	8	14FEB1991	05DEC2018	332	143.95783133	25	500
18	Color (CPU)	9	14FEB1991	05DEC2018	332	132.31325301	20	500
19	Bottom Conductivity (us/cm)	1	14FEB1991	05DEC2018	335	726.58507463	67	8440
20	Bottom Conductivity (us/cm)	2	14FEB1991	05DEC2018	333	924.41141141	7	4060
21	Bottom Conductivity (us/cm)	3	14FEB1991	05DEC2018	333	772.93393393	54	8710
22	Bottom Conductivity (us/cm)	4	14FEB1991	05DEC2018	334	4366.8413174	59	31623
23	Bottom Conductivity (us/cm)	5	14FEB1991	05DEC2018	335	4751.7820896	52	33273
24	Bottom Conductivity (us/cm)	6	14FEB1991	05DEC2018	332	6677.0240964	10	36635
25	Bottom Conductivity (us/cm)	7	14FEB1991	05DEC2018	331	10511.154079	54	43044
26	Bottom Conductivity (us/cm)	8	14FEB1991	05DEC2018	333	12583.987988	73	47120
27	Bottom Conductivity (us/cm)	9	14FEB1991	05DEC2018	333	18173.177177	63	53228
28	Bottom Conductivity (us/cm)	10	14FEB1991	05DEC2018	334	3212.7994012	61	28899
29	Bottom Conductivity (us/cm)	11	14FEB1991	05DEC2018	332	3611.3403614	8	30737
30	Bottom Conductivity (us/cm)	12	14FEB1991	05DEC2018	333	4709.3243243	57	31067
31	Bottom Conductivity (us/cm)	13	14FEB1991	05DEC2018	334	4700.4251497	53	32157
32	Bottom Conductivity (us/cm)	14	14FEB1991	05DEC2018	333	5218.2432432	10	34210
33	Bottom Conductivity (us/cm)	15	14FEB1991	05DEC2018	332	8348.4939759	54	38405
34	Bottom Conductivity (us/cm)	16	14FEB1991	05DEC2018	333	12942.153153	54	46421
35	Bottom Conductivity (us/cm)	17	14FEB1991	05DEC2018	332	14778.463855	54	49935
36	Bottom Conductivity (us/cm)	18	14FEB1991	05DEC2018	329	11117.036474	74	45082
37	Bottom Conductivity (us/cm)	19	14FEB1991	05DEC2018	331	20168.52568	60	55459
38	Bottom Conductivity (us/cm)	22	14OCT1999	14OCT1999	1	674	674	674
39	Surface Conductivity (us/cm)	1	14FEB1991	05DEC2018	334	725.31437126	67	8760

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
40	Surface Conductivity (us/cm)	2	14FEB1991	05DEC2018	332	931.82831325	69	6170
41	Surface Conductivity (us/cm)	3	14FEB1991	05DEC2018	328	784.80182927	9	11336
42	Surface Conductivity (us/cm)	4	14FEB1991	05DEC2018	333	2797.3333333	61	29762
43	Surface Conductivity (us/cm)	5	14FEB1991	05DEC2018	334	3891.4760479	52	31545
44	Surface Conductivity (us/cm)	6	14FEB1991	05DEC2018	333	5994.5345345	54	36645
45	Surface Conductivity (us/cm)	7	14FEB1991	05DEC2018	333	9170.9369369	54	41982
46	Surface Conductivity (us/cm)	8	14FEB1991	06SEP2018	324	11109.20679	73	46814
47	Surface Conductivity (us/cm)	9	14FEB1991	05DEC2018	330	14627.533333	68	50503
48	Surface Conductivity (us/cm)	10	14FEB1991	05DEC2018	328	2394.6493902	61	29247
49	Surface Conductivity (us/cm)	11	14FEB1991	05DEC2018	332	2563.003012	6	48700
50	Surface Conductivity (us/cm)	12	14FEB1991	05DEC2018	332	3207.936747	58	30253
51	Surface Conductivity (us/cm)	13	14FEB1991	05DEC2018	334	3525.1197605	53	31479
52	Surface Conductivity (us/cm)	14	14FEB1991	05DEC2018	333	4587.7567568	53	33309
53	Surface Conductivity (us/cm)	15	14FEB1991	05DEC2018	331	7362.4229607	54	38161
54	Surface Conductivity (us/cm)	16	14FEB1991	05DEC2018	332	11383.891566	54	46440
55	Surface Conductivity (us/cm)	17	14FEB1991	05DEC2018	330	13231.018182	54	49670
56	Surface Conductivity (us/cm)	18	14FEB1991	05DEC2018	328	10181.304878	73	61200
57	Surface Conductivity (us/cm)	19	14FEB1991	05DEC2018	329	17267.042553	60	55371
58	Surface Conductivity (us/cm)	22	14OCT1999	14OCT1999	1	680	680	680
59	Bottom Dissolved Oxygen (mg/L)	1	14FEB1991	05DEC2018	334	5.1072155689	0.24	9.73
60	Bottom Dissolved Oxygen (mg/L)	2	14FEB1991	05DEC2018	330	4.2435757576	0.11	9.21
61	Bottom Dissolved Oxygen (mg/L)	3	14FEB1991	05DEC2018	332	5.1690662651	0.07	13.81
62	Bottom Dissolved Oxygen (mg/L)	4	14FEB1991	05DEC2018	333	5.2470570571	0.06	11.9
63	Bottom Dissolved Oxygen (mg/L)	5	14FEB1991	05DEC2018	334	5.7257784431	2.12	11.31
64	Bottom Dissolved Oxygen (mg/L)	6	14FEB1991	05DEC2018	332	5.8136445783	1.56	12.67
65	Bottom Dissolved Oxygen (mg/L)	7	14FEB1991	05DEC2018	332	6.0133433735	2	11.9
66	Bottom Dissolved Oxygen (mg/L)	8	14FEB1991	05DEC2018	329	6.0988753799	0.21	16.16
67	Bottom Dissolved Oxygen (mg/L)	9	14FEB1991	05DEC2018	332	6.0126204819	0.13	16.18
68	Bottom Dissolved Oxygen (mg/L)	10	14FEB1991	05DEC2018	334	6.0405389222	0.23	13.2
69	Bottom Dissolved Oxygen (mg/L)	11	14FEB1991	05DEC2018	331	5.8333232628	0.3	12.71
70	Bottom Dissolved Oxygen (mg/L)	12	14FEB1991	05DEC2018	332	5.355	0.19	12.14
71	Bottom Dissolved Oxygen (mg/L)	13	14FEB1991	05DEC2018	332	5.5386144578	0.44	12.23
72	Bottom Dissolved Oxygen (mg/L)	14	14FEB1991	05DEC2018	331	5.9226888218	1.6	13.45
73	Bottom Dissolved Oxygen (mg/L)	15	14FEB1991	05DEC2018	331	5.8980060423	2.03	13.4
74	Bottom Dissolved Oxygen (mg/L)	16	14FEB1991	05DEC2018	332	6.266746988	2.09	15.61
75	Bottom Dissolved Oxygen (mg/L)	17	14FEB1991	05DEC2018	331	6.3294259819	0.32	16.79
76	Bottom Dissolved Oxygen (mg/L)	18	14FEB1991	05DEC2018	328	6.0674695122	1.15	17.42
77	Bottom Dissolved Oxygen (mg/L)	19	14FEB1991	05DEC2018	331	6.1802719033	0.74	14.25
78	Bottom Dissolved Oxygen (mg/L)	22	14OCT1999	14OCT1999	1	3.71	3.71	3.71

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
79	Surface Dissolved Oxygen (mg/L)	1	14FEB1991	05DEC2018	333	5.760990991	0.53	10.6
80	Surface Dissolved Oxygen (mg/L)	2	14FEB1991	05DEC2018	331	5.8605740181	0.92	12.86
81	Surface Dissolved Oxygen (mg/L)	3	14FEB1991	05DEC2018	326	5.7693251534	0.88	14.43
82	Surface Dissolved Oxygen (mg/L)	4	14FEB1991	05DEC2018	332	6.659126506	2.44	13.05
83	Surface Dissolved Oxygen (mg/L)	5	14FEB1991	05DEC2018	333	6.4622222222	0.42	14.1
84	Surface Dissolved Oxygen (mg/L)	6	14FEB1991	05DEC2018	332	6.4618072289	2.16	13.94
85	Surface Dissolved Oxygen (mg/L)	7	14FEB1991	05DEC2018	332	6.6283433735	2.16	12.97
86	Surface Dissolved Oxygen (mg/L)	8	14FEB1991	06SEP2018	322	6.7659006211	0.35	17.46
87	Surface Dissolved Oxygen (mg/L)	9	14FEB1991	05DEC2018	329	7.0079331307	2.19	17.55
88	Surface Dissolved Oxygen (mg/L)	10	14FEB1991	05DEC2018	327	6.8606116208	0.25	13.75
89	Surface Dissolved Oxygen (mg/L)	11	14FEB1991	05DEC2018	331	6.8136253776	3.34	13.17
90	Surface Dissolved Oxygen (mg/L)	12	14FEB1991	05DEC2018	331	6.5657099698	2.45	13.39
91	Surface Dissolved Oxygen (mg/L)	13	14FEB1991	05DEC2018	333	6.5543543544	2.35	13.39
92	Surface Dissolved Oxygen (mg/L)	14	14FEB1991	05DEC2018	332	6.4425	2.18	13.79
93	Surface Dissolved Oxygen (mg/L)	15	14FEB1991	05DEC2018	330	6.5051515152	2.08	13.72
94	Surface Dissolved Oxygen (mg/L)	16	14FEB1991	05DEC2018	331	6.7975830816	2.17	16.73
95	Surface Dissolved Oxygen (mg/L)	17	14FEB1991	05DEC2018	329	6.8705775076	2.23	17.02
96	Surface Dissolved Oxygen (mg/L)	18	14FEB1991	05DEC2018	327	6.7235474006	1.42	17.79
97	Surface Dissolved Oxygen (mg/L)	19	14FEB1991	05DEC2018	329	6.9897264438	2.42	18.22
98	Surface Dissolved Oxygen (mg/L)	22	14OCT1999	14OCT1999	1	5.36	5.36	5.36
99	Water Column Average DO (mg/L)	1	14FEB1991	05DEC2018	334	5.4613989121	0.506	10.825555556
100	Water Column Average DO (mg/L)	2	14FEB1991	05DEC2018	332	5.1393397453	0.9175	11.441428571
101	Water Column Average DO (mg/L)	3	14FEB1991	05DEC2018	332	5.4521639056	0.1733333333	14.0125
102	Water Column Average DO (mg/L)	4	14FEB1991	05DEC2018	333	5.9156558225	2.012	12.661111111
103	Water Column Average DO (mg/L)	5	14FEB1991	05DEC2018	334	6.0808339749	2.158	11.272
104	Water Column Average DO (mg/L)	6	14FEB1991	05DEC2018	332	6.1164002438	2.1	13.3325
105	Water Column Average DO (mg/L)	7	14FEB1991	05DEC2018	332	6.3175428902	2.0625	11.717142857
106	Water Column Average DO (mg/L)	8	14FEB1991	05DEC2018	331	6.4072750324	0.34	16.456
107	Water Column Average DO (mg/L)	9	14FEB1991	05DEC2018	332	6.4766188922	2.13	16.3775
108	Water Column Average DO (mg/L)	10	14FEB1991	05DEC2018	334	6.4487647562	1.6683333333	13.46
109	Water Column Average DO (mg/L)	11	14FEB1991	05DEC2018	331	6.3612317652	2.055	12.9625
110	Water Column Average DO (mg/L)	12	14FEB1991	05DEC2018	332	5.9275043149	2.3325	12.6975
111	Water Column Average DO (mg/L)	13	14FEB1991	05DEC2018	333	6.0255216049	2.29	12.88
112	Water Column Average DO (mg/L)	14	14FEB1991	05DEC2018	332	6.143932995	2.099	13.582222222
113	Water Column Average DO (mg/L)	15	14FEB1991	05DEC2018	331	6.1681318022	2.0525	12.633333333
114	Water Column Average DO (mg/L)	16	14FEB1991	05DEC2018	332	6.4995845623	2.13	16.294
115	Water Column Average DO (mg/L)	17	14FEB1991	05DEC2018	331	6.5984822687	2.2	16.9675
116	Water Column Average DO (mg/L)	18	14FEB1991	05DEC2018	328	6.3712420514	1.255	17.576666667
117	Water Column Average DO (mg/L)	19	14FEB1991	05DEC2018	331	6.5916806847	1.96	17.02

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
118	Water Column Average DO (mg/L)	22	14OCT1999	14OCT1999	1	5.0688888889	5.0688888889	5.0688888889
119	Orthophosphate (mg/L)	1	14FEB1991	05DEC2018	330	0.1175969697	0.004	0.635
120	Orthophosphate (mg/L)	2	14FEB1991	05DEC2018	330	0.0676636364	-0.01	0.341
121	Orthophosphate (mg/L)	3	14FEB1991	05DEC2018	330	0.0959151515	-0.01	0.6
122	Orthophosphate (mg/L)	4	14FEB1991	05DEC2018	330	0.140269697	0.002	0.785
123	Orthophosphate (mg/L)	5	14FEB1991	05DEC2018	329	0.1517507599	0.022	0.77
124	Orthophosphate (mg/L)	6	14FEB1991	05DEC2018	330	0.1960939394	0.028	0.79
125	Orthophosphate (mg/L)	7	14FEB1991	05DEC2018	329	0.291787234	0.055	0.975
126	Orthophosphate (mg/L)	8	14FEB1991	05DEC2018	331	0.4858882175	0.092	1.2
127	Orthophosphate (mg/L)	9	14FEB1991	05DEC2018	330	0.3652363636	0.081	0.964
128	Bottom pH (std. units)	1	14FEB1991	05DEC2018	335	7.2140298507	5.7	8.9
129	Bottom pH (std. units)	2	14FEB1991	05DEC2018	333	7.3135135135	5.7	8.5
130	Bottom pH (std. units)	3	14FEB1991	05DEC2018	333	7.3339339339	4.5	8.8
131	Bottom pH (std. units)	4	14FEB1991	05DEC2018	333	7.1753753754	5.3	8.5
132	Bottom pH (std. units)	5	14FEB1991	05DEC2018	335	7.2214925373	2.2	8.6
133	Bottom pH (std. units)	6	14FEB1991	05DEC2018	333	7.2528528529	5.7	8.6
134	Bottom pH (std. units)	7	14FEB1991	05DEC2018	333	7.3009009009	4.1	8.5
135	Bottom pH (std. units)	8	14FEB1991	05DEC2018	333	7.3846846847	5.7	8.6
136	Bottom pH (std. units)	9	14FEB1991	05DEC2018	333	7.4273273273	5.5	8.7
137	Bottom pH (std. units)	10	14FEB1991	05DEC2018	334	7.2994011976	5.4	8.5
138	Bottom pH (std. units)	11	14FEB1991	05DEC2018	331	7.2836858006	5.5	8.5
139	Bottom pH (std. units)	12	14FEB1991	05DEC2018	331	7.1848942598	5.5	8.5
140	Bottom pH (std. units)	13	14FEB1991	05DEC2018	332	7.2108433735	5.6	8.6
141	Bottom pH (std. units)	14	14FEB1991	05DEC2018	332	7.263253012	5.8	9.1
142	Bottom pH (std. units)	15	14FEB1991	05DEC2018	331	7.2697885196	4.3	8.5
143	Bottom pH (std. units)	16	14FEB1991	05DEC2018	331	7.3670694864	5.4	8.5
144	Bottom pH (std. units)	17	14FEB1991	05DEC2018	331	7.4078549849	5.9	8.6
145	Bottom pH (std. units)	18	14FEB1991	05DEC2018	329	7.33556231	4.8	8.9
146	Bottom pH (std. units)	19	14FEB1991	05DEC2018	330	7.4712121212	5.5	8.6
147	Bottom pH (std. units)	22	14OCT1999	14OCT1999	1	7.1	7.1	7.1
148	Surface pH (std. units)	1	14FEB1991	05DEC2018	334	7.3011976048	5.6	8.9
149	Surface pH (std. units)	2	14FEB1991	05DEC2018	332	7.4331325301	6	8.4
150	Surface pH (std. units)	3	14FEB1991	05DEC2018	328	7.4317073171	4.9	8.4
151	Surface pH (std. units)	4	14FEB1991	05DEC2018	332	7.3677710843	6	9.8
152	Surface pH (std. units)	5	14FEB1991	05DEC2018	334	7.3461077844	5.9	8.7
153	Surface pH (std. units)	6	14FEB1991	05DEC2018	333	7.3444444444	5.8	8.6
154	Surface pH (std. units)	7	14FEB1991	05DEC2018	333	7.3873873874	6	8.6
155	Surface pH (std. units)	8	14FEB1991	06SEP2018	324	7.4975308642	5.8	8.7
156	Surface pH (std. units)	9	14FEB1991	05DEC2018	331	7.5096676737	5.6	8.7

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
157	Surface pH (std. units)	10	14FEB1991	05DEC2018	327	7.4162079511	5.1	8.5
158	Surface pH (std. units)	11	14FEB1991	05DEC2018	331	7.4163141994	6.2	8.6
159	Surface pH (std. units)	12	14FEB1991	05DEC2018	331	7.3410876133	4.3	8.5
160	Surface pH (std. units)	13	14FEB1991	05DEC2018	333	7.3393393393	4.2	8.6
161	Surface pH (std. units)	14	14FEB1991	05DEC2018	332	7.3518072289	5.8	9.5
162	Surface pH (std. units)	15	14FEB1991	05DEC2018	331	7.3595166163	5.9	8.7
163	Surface pH (std. units)	16	14FEB1991	05DEC2018	331	7.4283987915	6.1	8.6
164	Surface pH (std. units)	17	14FEB1991	05DEC2018	329	7.4589665653	6.1	8.7
165	Surface pH (std. units)	18	14FEB1991	05DEC2018	328	7.4317073171	4.6	8.9
166	Surface pH (std. units)	19	14FEB1991	05DEC2018	329	7.5340425532	4.5	9
167	Surface pH (std. units)	22	14OCT1999	14OCT1999	1	7.3	7.3	7.3
168	Bottom Salinity (psu)	1	14FEB1991	05DEC2018	335	0.2780298507	0	4.49
169	Bottom Salinity (psu)	2	14FEB1991	05DEC2018	333	0.3814714715	0	1.95
170	Bottom Salinity (psu)	3	14FEB1991	05DEC2018	333	0.3033333333	0	4.65
171	Bottom Salinity (psu)	4	14FEB1991	05DEC2018	334	2.4367065868	0	18.57
172	Bottom Salinity (psu)	5	14FEB1991	05DEC2018	335	2.6493134328	0	19.89
173	Bottom Salinity (psu)	6	14FEB1991	05DEC2018	333	3.8393693694	0	21.19
174	Bottom Salinity (psu)	7	14FEB1991	05DEC2018	333	6.2491291291	0	26.43
175	Bottom Salinity (psu)	8	14FEB1991	05DEC2018	333	7.5052552553	0	29.51
176	Bottom Salinity (psu)	9	14FEB1991	05DEC2018	333	11.134024024	0	33.56
177	Bottom Salinity (psu)	10	14FEB1991	05DEC2018	335	1.7914626866	0	29.4
178	Bottom Salinity (psu)	11	14FEB1991	05DEC2018	332	1.9649698795	0	17.86
179	Bottom Salinity (psu)	12	14FEB1991	05DEC2018	333	2.6381081081	0	18.42
180	Bottom Salinity (psu)	13	14FEB1991	05DEC2018	334	2.6095508982	0	19.16
181	Bottom Salinity (psu)	14	14FEB1991	05DEC2018	333	2.9402102102	0	20.41
182	Bottom Salinity (psu)	15	14FEB1991	05DEC2018	332	4.8619277108	0	23.43
183	Bottom Salinity (psu)	16	14FEB1991	05DEC2018	333	7.6916216216	0	28.99
184	Bottom Salinity (psu)	17	14FEB1991	05DEC2018	332	8.8695481928	0	31.36
185	Bottom Salinity (psu)	18	14FEB1991	05DEC2018	329	6.6132218845	0	28.4
186	Bottom Salinity (psu)	19	14FEB1991	05DEC2018	331	12.304954683	0	35.12
187	Bottom Salinity (psu)	22	14OCT1999	14OCT1999	1	0.09	0.09	0.09
188	Surface Salinity (psu)	1	14FEB1991	05DEC2018	334	0.2791916168	0	4.68
189	Surface Salinity (psu)	2	14FEB1991	05DEC2018	332	0.3787349398	0	3.16
190	Surface Salinity (psu)	3	14FEB1991	05DEC2018	328	0.321554878	0	6.87
191	Surface Salinity (psu)	4	14FEB1991	05DEC2018	333	1.4844444444	0	16.44
192	Surface Salinity (psu)	5	14FEB1991	05DEC2018	335	2.109880597	0	18.12
193	Surface Salinity (psu)	6	14FEB1991	05DEC2018	333	3.3837837838	0	20.84
194	Surface Salinity (psu)	7	14FEB1991	05DEC2018	333	5.3285885886	0	25.37
195	Surface Salinity (psu)	8	14FEB1991	06SEP2018	326	6.4746319018	0	28.61

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
196	Surface Salinity (psu)	9	14FEB1991	05DEC2018	330	8.7485757576	0	31.13
197	Surface Salinity (psu)	10	14FEB1991	05DEC2018	328	1.2806402439	0	29.7
198	Surface Salinity (psu)	11	14FEB1991	05DEC2018	332	1.2612048193	0	16.58
199	Surface Salinity (psu)	12	14FEB1991	05DEC2018	333	1.7037237237	0	17.13
200	Surface Salinity (psu)	13	14FEB1991	05DEC2018	334	1.9248203593	0	17.86
201	Surface Salinity (psu)	14	14FEB1991	05DEC2018	333	2.5556156156	0	19.19
202	Surface Salinity (psu)	15	14FEB1991	05DEC2018	331	4.2195166163	0	22.99
203	Surface Salinity (psu)	16	14FEB1991	05DEC2018	332	6.6514759036	0	28.83
204	Surface Salinity (psu)	17	14FEB1991	05DEC2018	331	7.8727492447	0	31.13
205	Surface Salinity (psu)	18	14FEB1991	05DEC2018	329	5.8311550152	0	26.99
206	Surface Salinity (psu)	19	14FEB1991	05DEC2018	329	10.435683891	0	35.07
207	Surface Salinity (psu)	22	14OCT1999	14OCT1999	1	0.09	0.09	0.09
208	Silica (mg/L)	1	14FEB1991	05DEC2018	330	4.6114636364	0.141	12.4
209	Silica (mg/L)	2	14FEB1991	05DEC2018	331	5.1468791541	0.059	15.9
210	Silica (mg/L)	3	14FEB1991	05DEC2018	331	4.4999214502	0.063	14.4
211	Silica (mg/L)	4	14FEB1991	05DEC2018	330	4.7099454545	0.114	16.6
212	Silica (mg/L)	5	14FEB1991	05DEC2018	331	4.4998459215	0.12	16
213	Silica (mg/L)	6	14FEB1991	05DEC2018	331	4.3027885196	0.05	12.2
214	Silica (mg/L)	7	14FEB1991	05DEC2018	330	4.0494909091	0.05	13.9
215	Silica (mg/L)	8	14FEB1991	05DEC2018	331	4.0132719033	0.05	15
216	Silica (mg/L)	9	14FEB1991	05DEC2018	331	3.6323141994	-0.05	13.3
217	Bottom Temperature (deg C)	1	14FEB1991	05DEC2018	335	23.780597015	9	30.8
218	Bottom Temperature (deg C)	2	14FEB1991	05DEC2018	333	23.215915916	8.4	29.8
219	Bottom Temperature (deg C)	3	14FEB1991	05DEC2018	333	24.156756757	0.4	31
220	Bottom Temperature (deg C)	4	14FEB1991	05DEC2018	334	24.625149701	10.3	31.2
221	Bottom Temperature (deg C)	5	14FEB1991	05DEC2018	335	24.67761194	10.8	31.2
222	Bottom Temperature (deg C)	6	14FEB1991	05DEC2018	333	24.953753754	11.5	31.4
223	Bottom Temperature (deg C)	7	14FEB1991	05DEC2018	333	25.005105105	11.9	31.7
224	Bottom Temperature (deg C)	8	14FEB1991	05DEC2018	333	24.78018018	-99	32.8
225	Bottom Temperature (deg C)	9	14FEB1991	05DEC2018	333	25.130630631	11.9	32.2
226	Bottom Temperature (deg C)	10	14FEB1991	05DEC2018	335	24.446567164	-99	31.3
227	Bottom Temperature (deg C)	11	14FEB1991	05DEC2018	332	24.737048193	11.1	31.2
228	Bottom Temperature (deg C)	12	14FEB1991	05DEC2018	333	24.635135135	6.8	31.1
229	Bottom Temperature (deg C)	13	14FEB1991	05DEC2018	334	24.691916168	10.5	31.2
230	Bottom Temperature (deg C)	14	14FEB1991	05DEC2018	333	24.845345345	11.6	31.3
231	Bottom Temperature (deg C)	15	14FEB1991	05DEC2018	332	24.972590361	11.4	31.6
232	Bottom Temperature (deg C)	16	14FEB1991	05DEC2018	333	25.136636637	12.1	32.2
233	Bottom Temperature (deg C)	17	14FEB1991	05DEC2018	333	25.18048048	11.8	32.1
234	Bottom Temperature (deg C)	18	14FEB1991	05DEC2018	330	25.083333333	11	32.8

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
235	Bottom Temperature (deg C)	19	14FEB1991	05DEC2018	333	24.851351351	-99	32.3
236	Bottom Temperature (deg C)	22	14OCT1999	14OCT1999	1	26.1	26.1	26.1
237	Surface Temperature (deg C)	1	14FEB1991	05DEC2018	334	24.074251497	9	31.5
238	Surface Temperature (deg C)	2	14FEB1991	05DEC2018	332	24.163855422	8.6	30.9
239	Surface Temperature (deg C)	3	14FEB1991	05DEC2018	328	24.44054878	0.4	33
240	Surface Temperature (deg C)	4	14FEB1991	05DEC2018	333	25.055555556	2.5	31.6
241	Surface Temperature (deg C)	5	14FEB1991	05DEC2018	334	25.143113772	12.1	32
242	Surface Temperature (deg C)	6	14FEB1991	05DEC2018	333	25.522222222	11.5	32.8
243	Surface Temperature (deg C)	7	14FEB1991	05DEC2018	333	25.541441441	12.8	34.3
244	Surface Temperature (deg C)	8	14FEB1991	06SEP2018	324	25.583024691	12.5	33.5
245	Surface Temperature (deg C)	9	14FEB1991	05DEC2018	330	25.786666667	12.4	33.6
246	Surface Temperature (deg C)	10	14FEB1991	05DEC2018	328	24.970426829	10.8	31.4
247	Surface Temperature (deg C)	11	14FEB1991	05DEC2018	332	24.987048193	11.3	31.6
248	Surface Temperature (deg C)	12	14FEB1991	05DEC2018	332	25.121686747	11.9	32.6
249	Surface Temperature (deg C)	13	14FEB1991	05DEC2018	334	25.162874251	11.4	31.6
250	Surface Temperature (deg C)	14	14FEB1991	05DEC2018	333	25.178078078	11.8	33
251	Surface Temperature (deg C)	15	14FEB1991	05DEC2018	331	25.413595166	11.9	32.1
252	Surface Temperature (deg C)	16	14FEB1991	05DEC2018	332	25.584036145	12.2	32.6
253	Surface Temperature (deg C)	17	14FEB1991	05DEC2018	331	25.63081571	12.3	32.8
254	Surface Temperature (deg C)	18	14FEB1991	05DEC2018	329	25.58662614	12.1	32.9
255	Surface Temperature (deg C)	19	14FEB1991	05DEC2018	330	25.721515152	12.3	33.5
256	Surface Temperature (deg C)	22	14OCT1999	14OCT1999	1	26.1	26.1	26.1
257	Total Nitrogen (mg/L)	1	14FEB1991	05DEC2018	325	1.47552	0	3.48
258	Total Nitrogen (mg/L)	2	14FEB1991	05DEC2018	324	1.094962963	0	2.94
259	Total Nitrogen (mg/L)	3	14FEB1991	05DEC2018	325	1.2309138462	0	3.05
260	Total Nitrogen (mg/L)	4	14FEB1991	05DEC2018	325	1.2542123077	0	4.16
261	Total Nitrogen (mg/L)	5	14FEB1991	05DEC2018	325	1.1976369231	0	4.5
262	Total Nitrogen (mg/L)	6	14FEB1991	05DEC2018	325	1.1703353846	0	2.81
263	Total Nitrogen (mg/L)	7	14FEB1991	05DEC2018	325	1.2044092308	0	4.08
264	Total Nitrogen (mg/L)	8	14FEB1991	05DEC2018	326	1.2992515337	0	3.79
265	Total Nitrogen (mg/L)	9	14FEB1991	05DEC2018	324	1.1943888889	0	4.9
266	Total Phosphorus (mg/L)	1	14FEB1991	05DEC2018	331	0.1774682779	0.04	1.008
267	Total Phosphorus (mg/L)	2	14FEB1991	05DEC2018	331	0.1130030211	0.013	1.144
268	Total Phosphorus (mg/L)	3	14FEB1991	05DEC2018	331	0.1521570997	0.014	0.946
269	Total Phosphorus (mg/L)	4	14FEB1991	05DEC2018	331	0.2010996979	0.065	1.298
270	Total Phosphorus (mg/L)	5	14FEB1991	05DEC2018	331	0.2133444109	0.067	1.32
271	Total Phosphorus (mg/L)	6	14FEB1991	05DEC2018	331	0.2742990937	0.072	3.9
272	Total Phosphorus (mg/L)	7	14FEB1991	05DEC2018	331	0.3896314199	0.062	1.64
273	Total Phosphorus (mg/L)	8	14FEB1991	05DEC2018	331	0.6153232628	0.19	1.7

Obs	parameter	STATION	startdate	enddate	numsamps	meanvalue	minvalue	maxvalue
274	Total Phosphorus (mg/L)	9	14FEB1991	05DEC2018	332	0.4866746988	0.1	1.6
275	Total Suspended Solids (mg/L)	1	14FEB1991	05DEC2018	331	5.1349758308	-0.6	35.5
276	Total Suspended Solids (mg/L)	2	14FEB1991	05DEC2018	331	3.8619335347	0.4	30
277	Total Suspended Solids (mg/L)	3	14FEB1991	05DEC2018	332	5.2071084337	-0.6	85
278	Total Suspended Solids (mg/L)	4	14FEB1991	05DEC2018	331	5.0301812689	0.3	28
279	Total Suspended Solids (mg/L)	5	14FEB1991	05DEC2018	332	5.2083433735	-0.6	56
280	Total Suspended Solids (mg/L)	6	14FEB1991	05DEC2018	332	6.4485843373	0.4	71
281	Total Suspended Solids (mg/L)	7	14FEB1991	05DEC2018	331	8.9589123867	0.1	43
282	Total Suspended Solids (mg/L)	8	14FEB1991	05DEC2018	332	12.300993976	0.6	97
283	Total Suspended Solids (mg/L)	9	14FEB1991	05DEC2018	332	12.888945783	0.6	101
284	Turbidity (NTU)	1	14FEB1991	05DEC2018	331	4.5110876133	0.4	28
285	Turbidity (NTU)	2	14FEB1991	05DEC2018	332	3.3906024096	0.1	25
286	Turbidity (NTU)	3	14FEB1991	05DEC2018	332	3.5729216867	0.2	53
287	Turbidity (NTU)	4	14FEB1991	05DEC2018	331	3.0050151057	0.3	7.2
288	Turbidity (NTU)	5	14FEB1991	05DEC2018	332	2.9019578313	0.3	8.1
289	Turbidity (NTU)	6	14FEB1991	05DEC2018	332	3.1663554217	0.2	14
290	Turbidity (NTU)	7	14FEB1991	05DEC2018	331	3.9924169184	0.2	13
291	Turbidity (NTU)	8	14FEB1991	05DEC2018	332	5.2712349398	0.2	32.3
292	Turbidity (NTU)	9	14FEB1991	05DEC2018	332	4.7822289157	0.3	40

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=1

Moments			
N	328	**Sum Weights**	328
Mean	101.151311	**Sum Observations**	33177.63
Std Deviation	35.9080132	**Variance**	1289.38541
Skewness	0.10744522	**Kurtosis**	-0.5947721
Uncorrected SS	3777589.8	**Corrected SS**	421629.029
Coeff Variation	35.4993058	**Std Error Mean**	1.98268835

Basic Statistical Measures			
Location		**Variability**	
Mean	101.1513	**Std Deviation**	35.90801
Median	100.0000	**Variance**	1289
Mode	120.0000	**Range**	178.50000
		Interquartile Range	57.50000

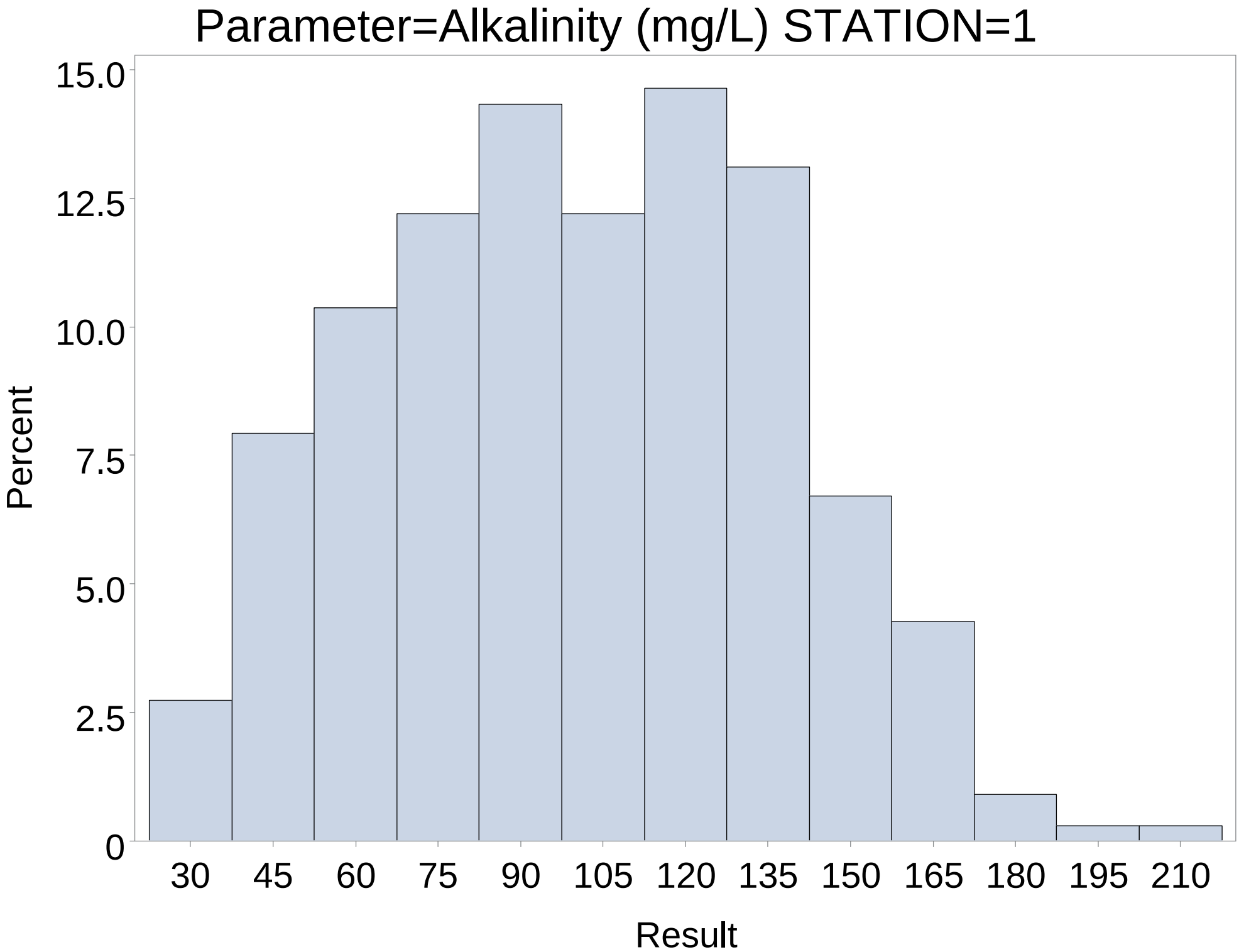
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.01725	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	210.0
99%	180.0
95%	160.0
90%	149.0
75% Q3	129.5
50% Median	100.0
25% Q1	72.0
10%	51.0
5%	43.5
1%	35.0
0% Min	31.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
31.5	172	178.3	32
32.1	56	180.0	216
34.0	143	180.0	309
35.0	295	200.0	282
35.0	258	210.0	289


Parameter=Alkalinity (mg/L) STATION=1
Percent
15.0
12.5
10.0
7.5
5.0
2.5
0
30
45
60
75
90
105
120
135
150
165
180
195
210
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=2

Moments			
N	330	**Sum Weights**	330
Mean	150.933879	**Sum Observations**	49808.18
Std Deviation	50.5460895	**Variance**	2554.90717
Skewness	1.53235641	**Kurtosis**	16.1935239
Uncorrected SS	8358306.26	**Corrected SS**	840564.457
Coeff Variation	33.4888959	**Std Error Mean**	2.78247065

Basic Statistical Measures			
Location		**Variability**	
Mean	150.9339	**Std Deviation**	50.54609
Median	160.0000	**Variance**	2555
Mode	190.0000	**Range**	570.00000
		Interquartile Range	65.12000

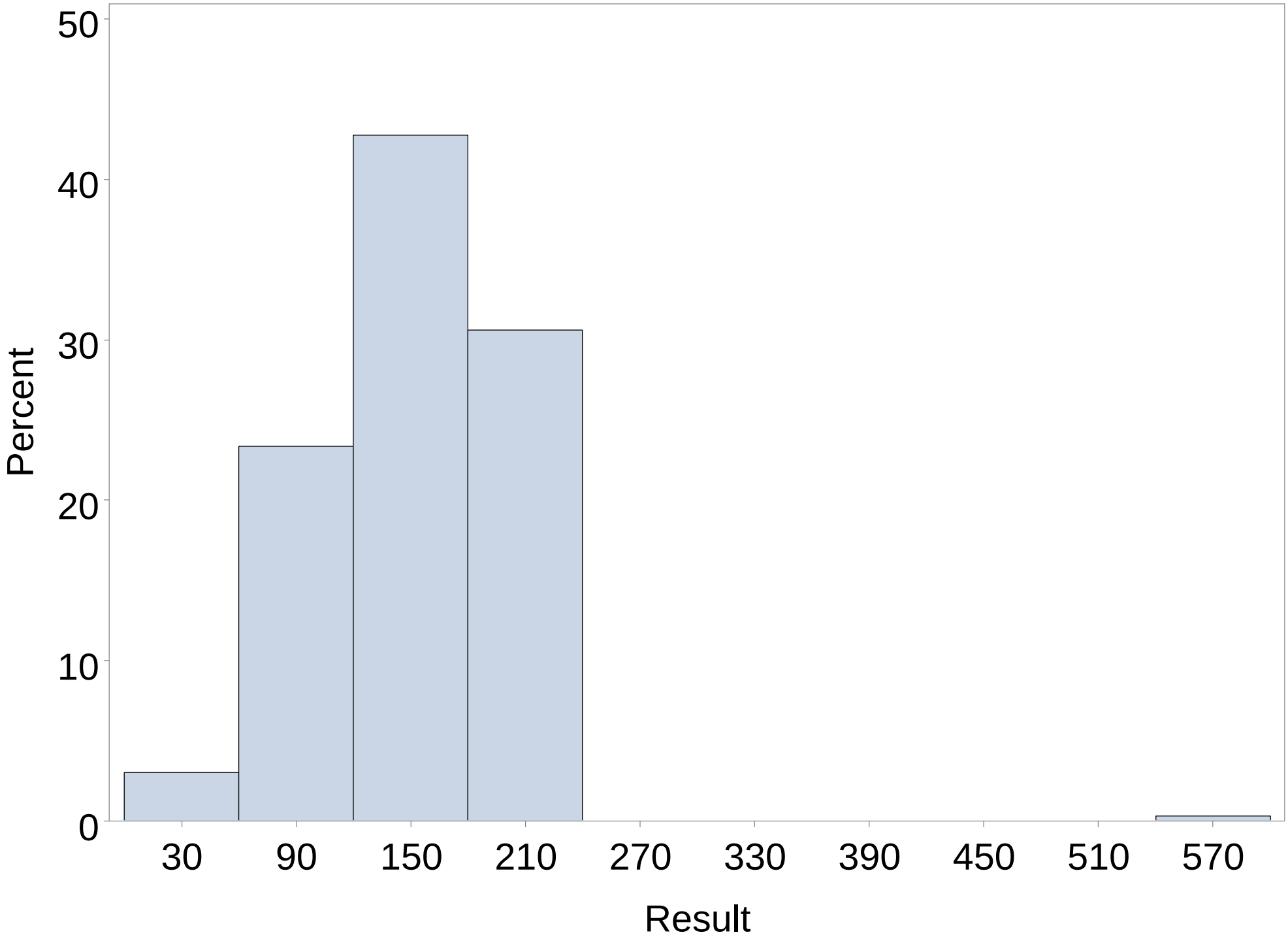
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	54.24455	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	590.00
99%	223.00
95%	210.00
90%	200.00
75% Q3	183.00
50% Median	160.00
25% Q1	117.88
10%	80.05
5%	66.00
1%	47.00
0% Min	20.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20.0	611	221	517
32.0	501	223	529
34.6	456	228	528
47.0	502	230	621
49.0	630	590	618


Parameter=Alkalinity (mg/L) STATION=2
Percent
50
40
30
20
10
0
30
90
150
210
270
330
390
450
510
570
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=3

Moments			
N	328	**Sum Weights**	328
Mean	113.562134	**Sum Observations**	37248.38
Std Deviation	37.6198092	**Variance**	1415.25005
Skewness	2.20532555	**Kurtosis**	20.6818846
Uncorrected SS	4692792.29	**Corrected SS**	462786.766
Coeff Variation	33.1270714	**Std Error Mean**	2.07720647

Basic Statistical Measures			
Location		**Variability**	
Mean	113.5621	**Std Deviation**	37.61981
Median	118.0000	**Variance**	1415
Mode	140.0000	**Range**	431.60000
		Interquartile Range	51.60000

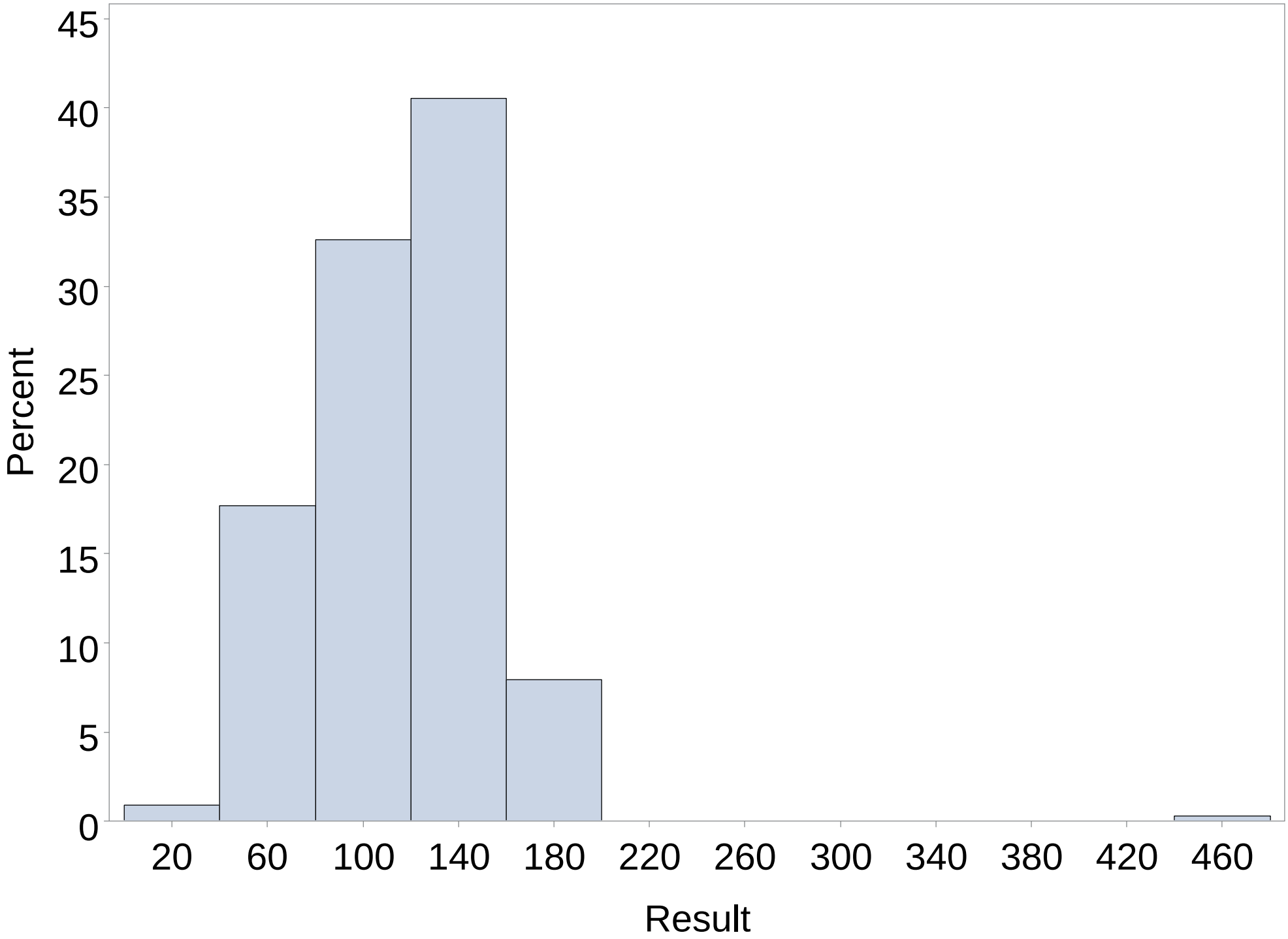
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	54.6706	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	460.0
99%	180.0
95%	160.0
90%	153.0
75% Q3	138.1
50% Median	118.0
25% Q1	86.5
10%	67.0
5%	57.0
1%	44.0
0% Min	28.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
28.4	699	177	978
31.5	786	180	884
39.5	830	180	963
44.0	927	189	826
44.0	801	460	946


Parameter=Alkalinity (mg/L) STATION=3
Percent
45
40
35
30
25
20
15
10
5
0
20
60
100
140
180
220
260
300
340
380
420
460
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=4

Moments			
N	22	**Sum Weights**	22
Mean	81.5727273	**Sum Observations**	1794.6
Std Deviation	32.3849051	**Variance**	1048.78208
Skewness	0.22280166	**Kurtosis**	-0.7550506
Uncorrected SS	168414.84	**Corrected SS**	22024.4236
Coeff Variation	39.7006526	**Std Error Mean**	6.90448497

Basic Statistical Measures			
Location		**Variability**	
Mean	81.57273	**Std Deviation**	32.38491
Median	84.55000	**Variance**	1049
Mode	.	**Range**	114.00000
		Interquartile Range	42.90000

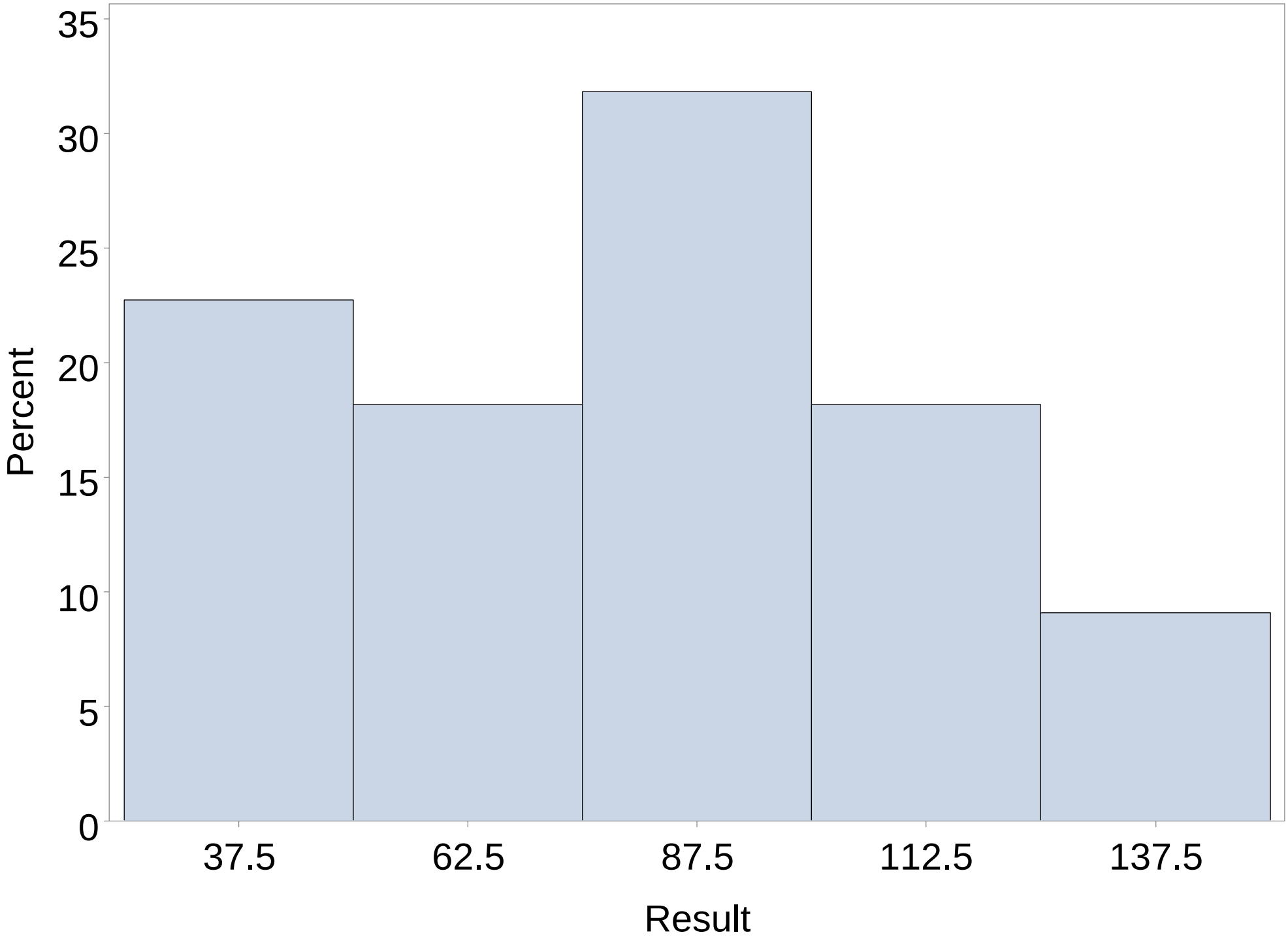
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.81446	**Pr > |t|**	<.0001
Sign	**M**	11	**Pr >= |M|**	<.0001
Signed Rank	**S**	126.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	146.00
99%	146.00
95%	133.00
90%	119.00
75% Q3	102.00
50% Median	84.55
25% Q1	59.10
10%	41.00
5%	35.90
1%	32.00
0% Min	32.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
32.0	1004	117	999
35.9	995	118	1001
41.0	1005	119	1000
42.6	998	133	1003
46.6	994	146	1008


Parameter=Alkalinity (mg/L) STATION=4
Percent
35
30
25
20
15
10
5
0
37.5
62.5
87.5
112.5
137.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=9

Moments			
N	1	Sum Weights	1
Mean	100	Sum Observations	100
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	10000	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	100.0000	Std Deviation	.
Median	100.0000	Variance	.
Mode	100.0000	Range	0
		Interquartile Range	0

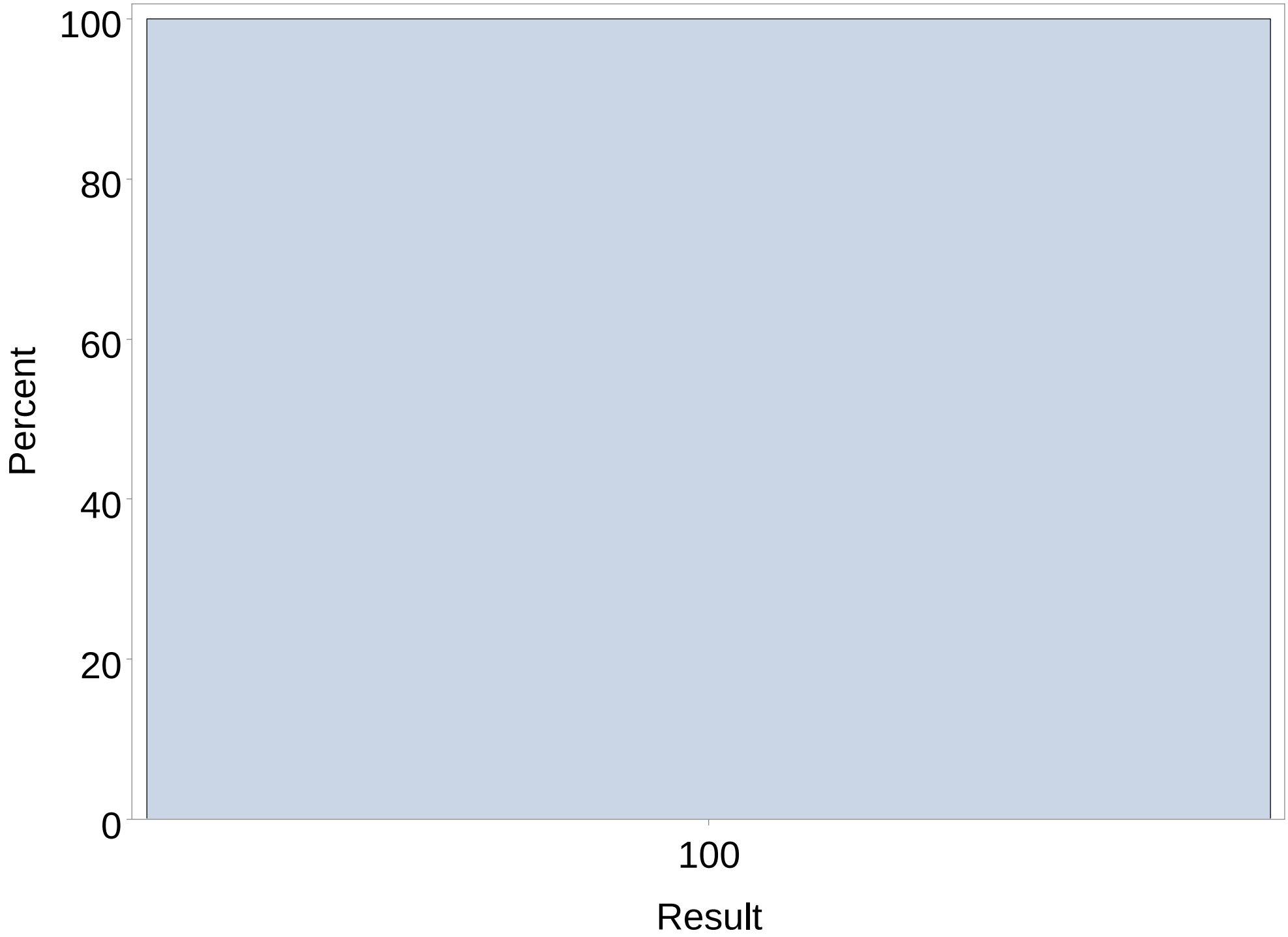
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

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

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Alkalinity (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
100	1009	100	1009


Parameter=Alkalinity (mg/L) STATION=9
100
80
60
40
20
0
Percent
100
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=1

Moments			
N	321	**Sum Weights**	321
Mean	3.1811215	**Sum Observations**	1021.14
Std Deviation	3.90587746	**Variance**	15.2558787
Skewness	4.53573591	**Kurtosis**	31.6524945
Uncorrected SS	8130.2516	**Corrected SS**	4881.8812
Coeff Variation	122.783033	**Std Error Mean**	0.21800482

Basic Statistical Measures			
Location		**Variability**	
Mean	3.181121	**Std Deviation**	3.90588
Median	2.000000	**Variance**	15.25588
Mode	1.200000	**Range**	40.70000
		Interquartile Range	2.20000

Note: The mode displayed is the smallest of 2 modes with a count of 16.

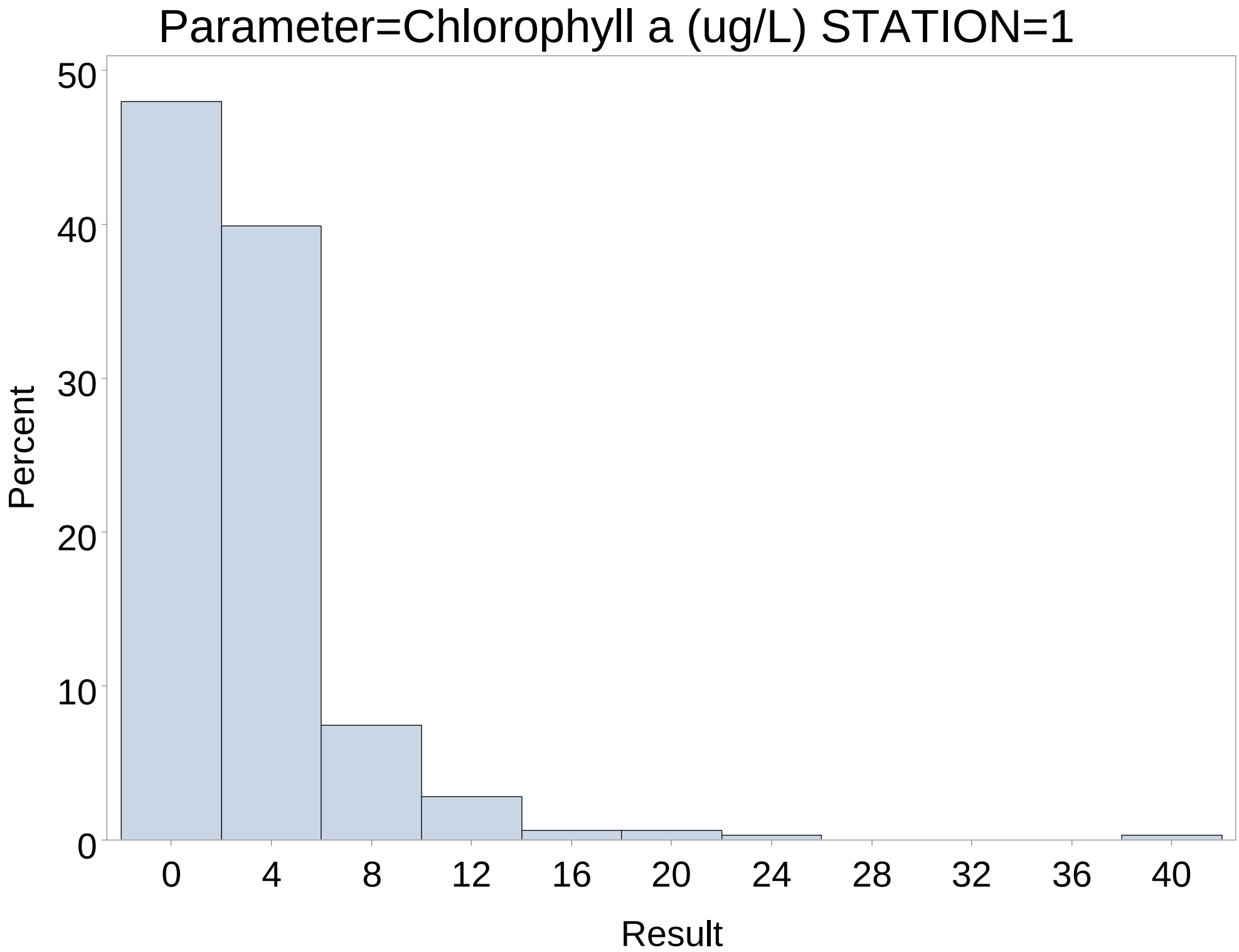
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.59198	**Pr > |t|**	<.0001
Sign	**M**	160.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	25840.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41.0
99%	20.6
95%	9.6
90%	6.8
75% Q3	3.4
50% Median	2.0
25% Q1	1.2
10%	0.8
5%	0.6
1%	0.5
0% Min	0.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	1141	15.4	1114
0.4	1159	20.6	1323
0.4	1158	21.3	1137
0.5	1282	23.0	1311
0.5	1260	41.0	1093


Parameter=Chlorophyll a (ug/L) STATION=1
Percent
50
40
30
20
10
0
0
4
8
12
16
20
24
28
32
36
40
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=2

Moments			
N	324	**Sum Weights**	324
Mean	6.32799383	**Sum Observations**	2050.27
Std Deviation	8.24043579	**Variance**	67.904782
Skewness	4.0271658	**Kurtosis**	24.9033297
Uncorrected SS	34907.3405	**Corrected SS**	21933.2446
Coeff Variation	130.221932	**Std Error Mean**	0.45780199

Basic Statistical Measures			
Location		**Variability**	
Mean	6.327994	**Std Deviation**	8.24044
Median	3.600000	**Variance**	67.90478
Mode	0.500000	**Range**	79.50000
		Interquartile Range	6.45000

Note: The mode displayed is the smallest of 2 modes with a count of 12.

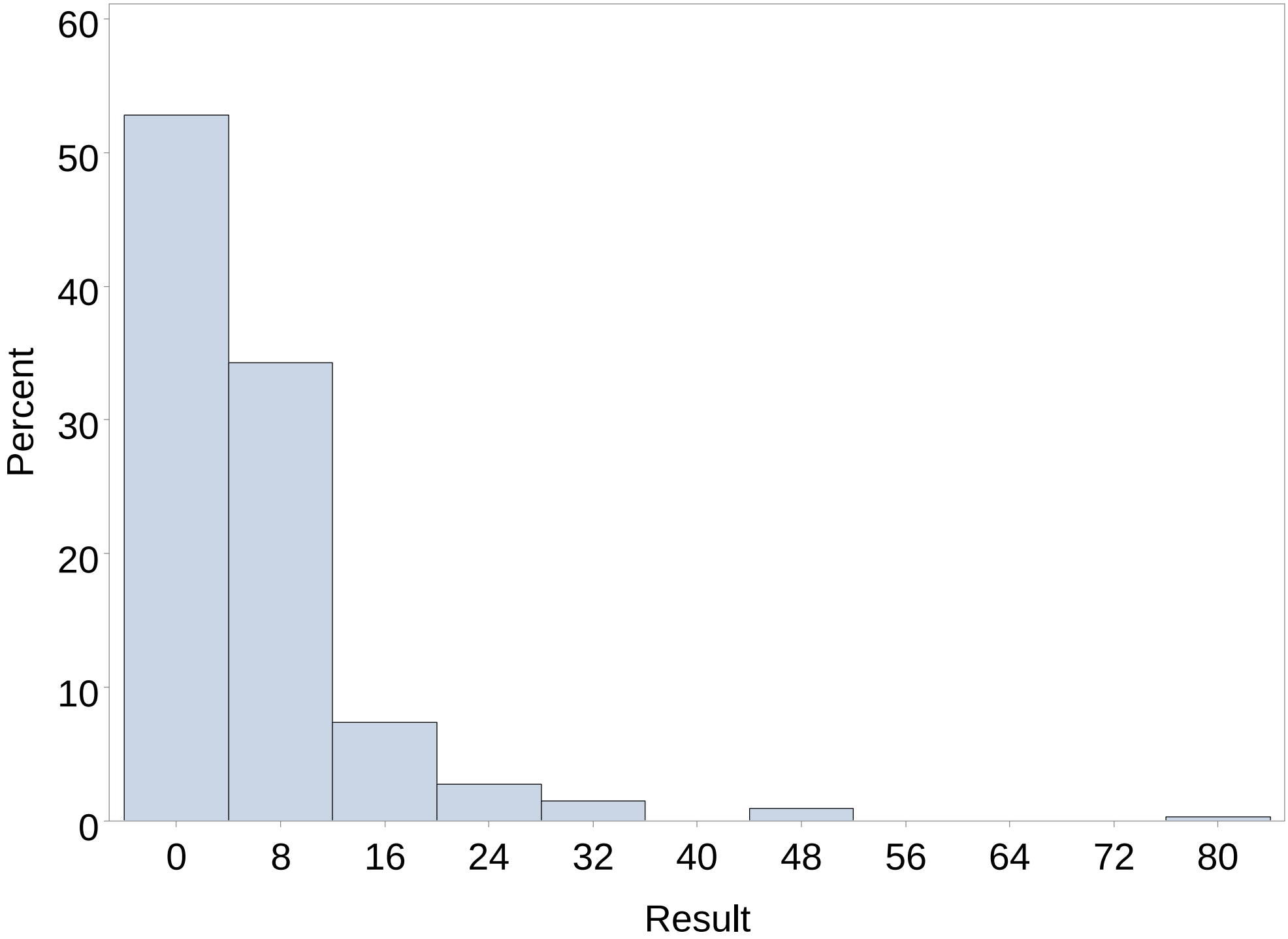
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.82256	**Pr > |t|**	<.0001
Sign	**M**	162	**Pr >= |M|**	<.0001
Signed Rank	**S**	26325	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	80.00
99%	44.10
95%	20.70
90%	13.80
75% Q3	8.05
50% Median	3.60
25% Q1	1.60
10%	1.00
5%	0.70
1%	0.50
0% Min	0.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	1621	33.2	1644
0.5	1551	44.1	1439
0.5	1550	45.7	1354
0.5	1524	51.6	1460
0.5	1523	80.0	1414


Parameter=Chlorophyll a (ug/L) STATION=2
Percent
60
50
40
30
20
10
0
0
8
16
24
32
40
48
56
64
72
80
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=3

Moments			
N	324	**Sum Weights**	324
Mean	11.2207407	**Sum Observations**	3635.52
Std Deviation	13.8242709	**Variance**	191.110467
Skewness	5.82026813	**Kurtosis**	47.9357323
Uncorrected SS	102521.908	**Corrected SS**	61728.6808
Coeff Variation	123.202837	**Std Error Mean**	0.76801505

Basic Statistical Measures			
Location		**Variability**	
Mean	11.22074	**Std Deviation**	13.82427
Median	7.65000	**Variance**	191.11047
Mode	3.00000	**Range**	152.70000
		Interquartile Range	10.35000

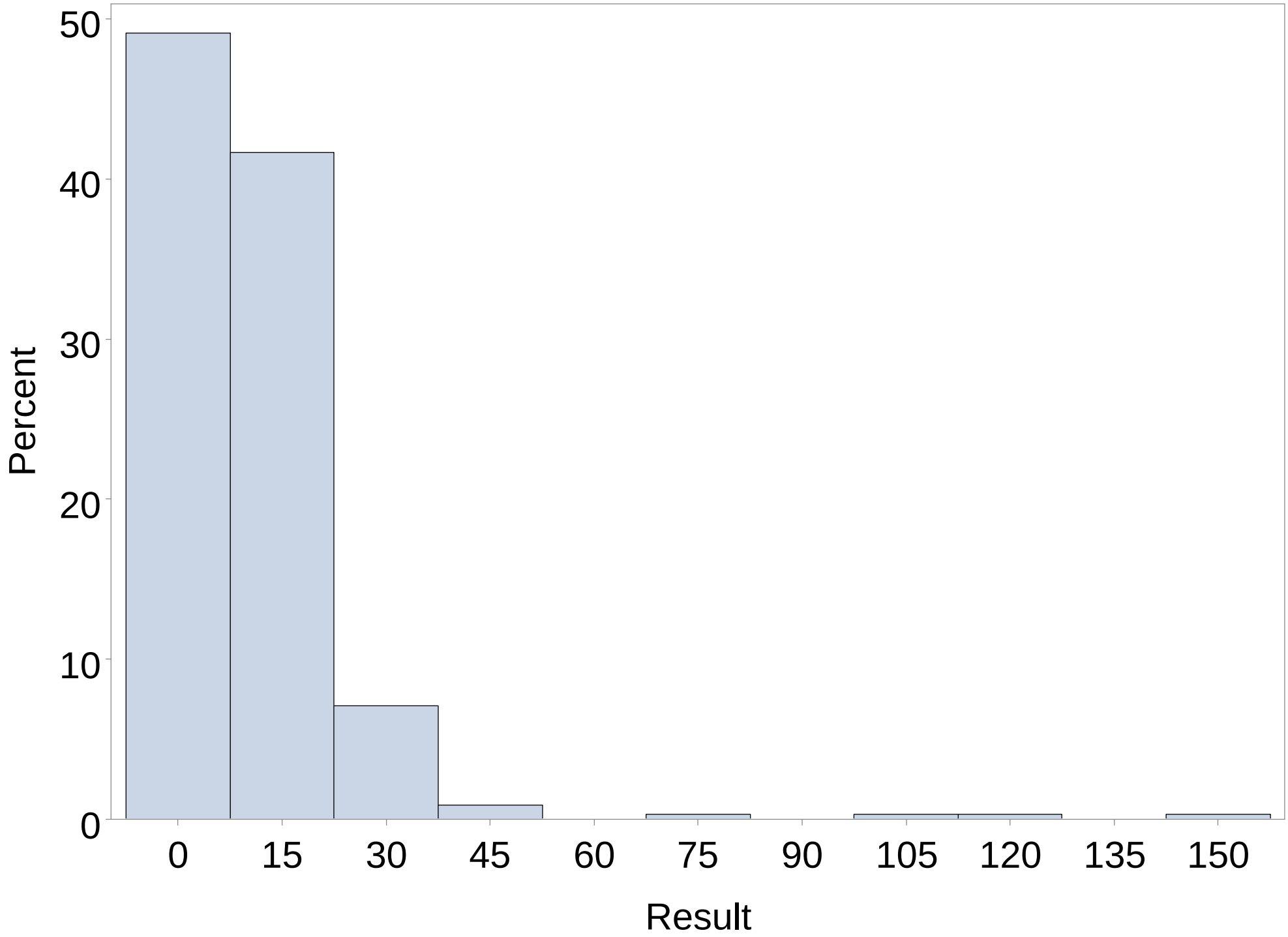
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.61005	**Pr > |t|**	<.0001
Sign	**M**	162	**Pr >= |M|**	<.0001
Signed Rank	**S**	26325	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	153.00
99%	72.60
95%	26.00
90%	22.00
75% Q3	14.45
50% Median	7.65
25% Q1	4.10
10%	2.39
5%	1.70
1%	0.80
0% Min	0.30

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	1848	38.6	1699
0.5	1837	72.6	1858
0.7	1835	98.6	1785
0.8	1760	113.4	1738
0.8	1707	153.0	1887


Parameter=Chlorophyll a (ug/L) STATION=3
Percent
50
40
30
20
10
0
0
15
30
45
60
75
90
105
120
135
150
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=4

Moments			
N	323	**Sum Weights**	323
Mean	11.4359133	**Sum Observations**	3693.8
Std Deviation	10.523814	**Variance**	110.750662
Skewness	1.98841472	**Kurtosis**	5.89702926
Uncorrected SS	77903.6898	**Corrected SS**	35661.7132
Coeff Variation	92.0242552	**Std Error Mean**	0.58556068

Basic Statistical Measures			
Location		**Variability**	
Mean	11.43591	**Std Deviation**	10.52381
Median	8.90000	**Variance**	110.75066
Mode	1.50000	**Range**	72.90000
		Interquartile Range	11.70000

Note: The mode displayed is the smallest of 3 modes with a count of 7.

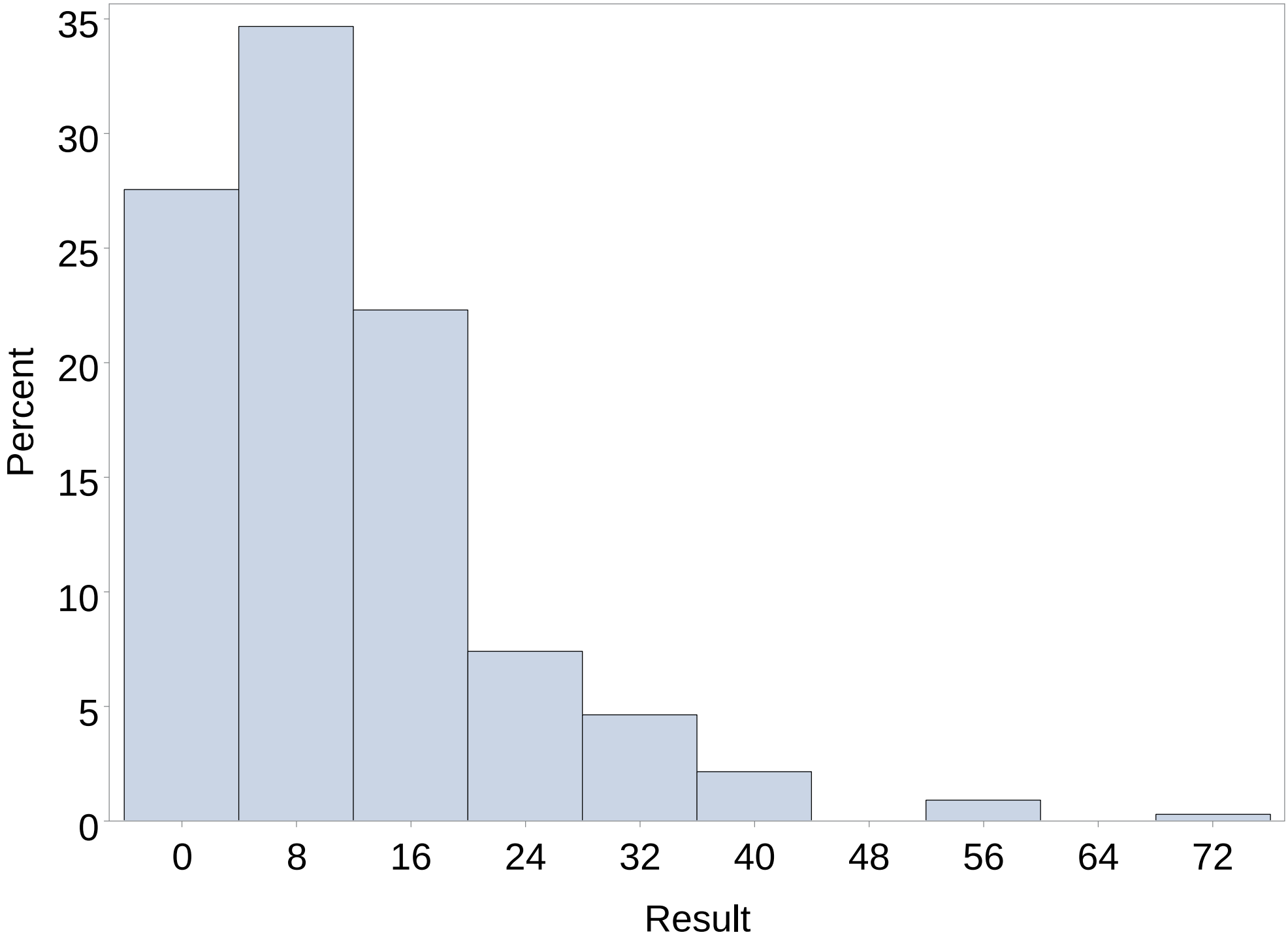
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.52985	**Pr > |t|**	<.0001
Sign	**M**	161.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26163	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	73.4
99%	54.0
95%	32.0
90%	24.0
75% Q3	15.3
50% Median	8.9
25% Q1	3.6
10%	1.8
5%	1.5
1%	0.9
0% Min	0.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	2160	41.9	2099
0.8	2157	54.0	2109
0.9	2251	55.0	2278
0.9	2058	58.4	2062
0.9	2053	73.4	2210


Parameter=Chlorophyll a (ug/L) STATION=4
Percent
35
30
25
20
15
10
5
0
0
8
16
24
32
40
48
56
64
72
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=5

Moments			
N	325	**Sum Weights**	325
Mean	11.3633846	**Sum Observations**	3693.1
Std Deviation	13.2041159	**Variance**	174.348676
Skewness	5.1607279	**Kurtosis**	37.7966938
Uncorrected SS	98455.0868	**Corrected SS**	56488.9711
Coeff Variation	116.198794	**Std Error Mean**	0.73243257

Basic Statistical Measures			
Location		**Variability**	
Mean	11.36338	**Std Deviation**	13.20412
Median	8.50000	**Variance**	174.34868
Mode	1.70000	**Range**	124.90000
		Interquartile Range	11.00000

Note: The mode displayed is the smallest of 3 modes with a count of 6.

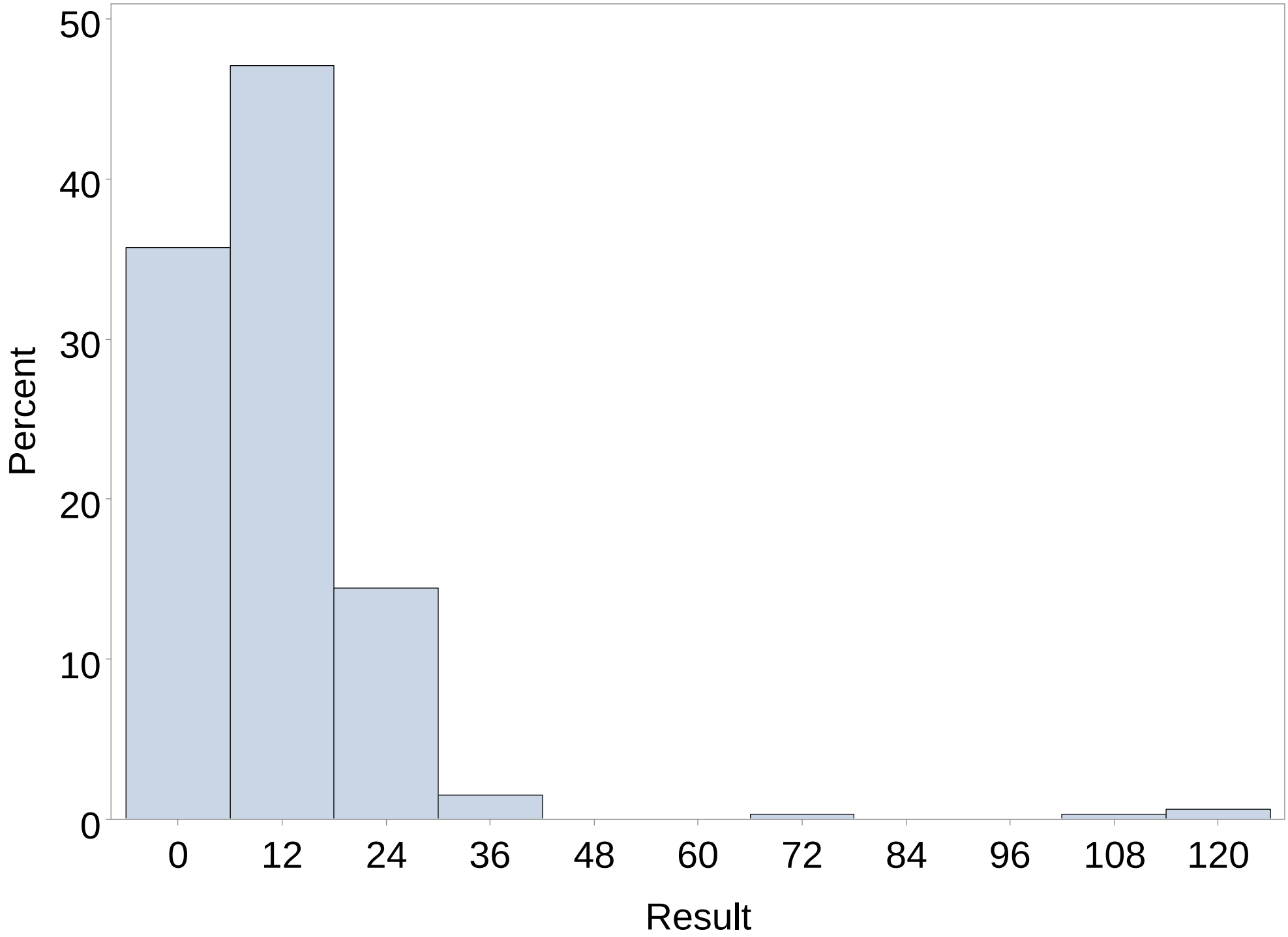
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.51458	**Pr > |t|**	<.0001
Sign	**M**	162.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26487.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	125.0
99%	69.3
95%	27.6
90%	22.4
75% Q3	14.7
50% Median	8.5
25% Q1	3.7
10%	2.0
5%	1.4
1%	0.6
0% Min	0.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.1	2440	37.0	2584
0.5	2519	69.3	2384
0.5	2483	109.0	2431
0.6	2562	116.6	2340
0.8	2406	125.0	2504


Parameter=Chlorophyll a (ug/L) STATION=5
Percent
50
40
30
20
10
0
0
12
24
36
48
60
72
84
96
108
120
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=6

Moments			
N	325	**Sum Weights**	325
Mean	9.58095385	**Sum Observations**	3113.81
Std Deviation	9.37983258	**Variance**	87.9812593
Skewness	3.54344477	**Kurtosis**	21.100479
Uncorrected SS	58339.1979	**Corrected SS**	28505.928
Coeff Variation	97.9008221	**Std Error Mean**	0.5202995

Basic Statistical Measures			
Location		**Variability**	
Mean	9.580954	**Std Deviation**	9.37983
Median	7.400000	**Variance**	87.98126
Mode	1.900000	**Range**	87.80000
		Interquartile Range	9.40000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

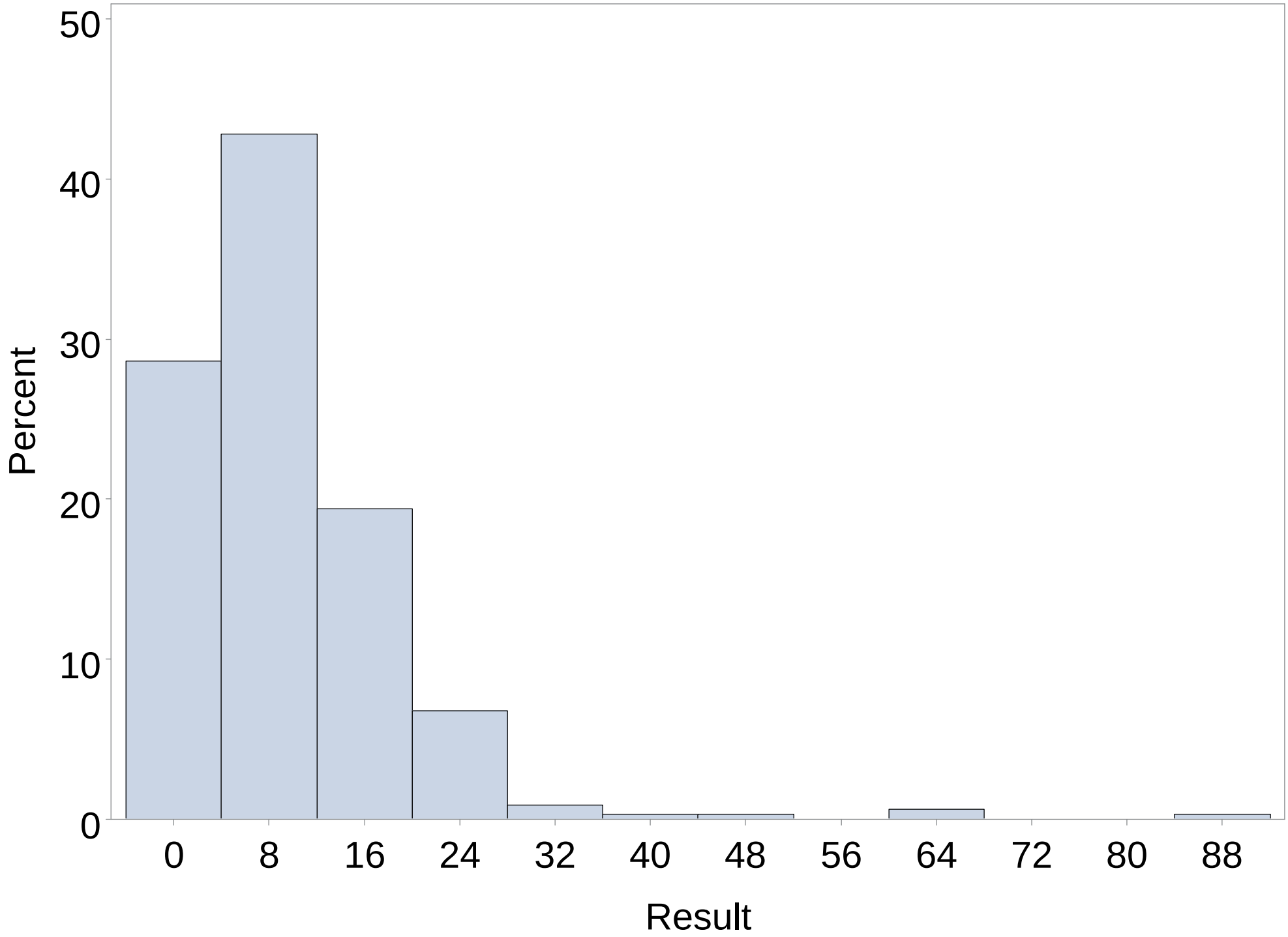
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.41431	**Pr > |t|**	<.0001
Sign	**M**	162.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26487.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	88.0
99%	47.6
95%	25.4
90%	19.2
75% Q3	12.9
50% Median	7.4
25% Q1	3.5
10%	1.9
5%	1.5
1%	0.9
0% Min	0.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	2760	39.6	2942
0.5	2808	47.6	2737
0.7	2887	60.9	2756
0.9	2901	65.3	2709
0.9	2805	88.0	2864


Parameter=Chlorophyll a (ug/L) STATION=6
Percent
50
40
30
20
10
0
0
8
16
24
32
40
48
56
64
72
80
88
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=7

Moments			
N	325	**Sum Weights**	325
Mean	12.0696923	**Sum Observations**	3922.65
Std Deviation	13.4357151	**Variance**	180.518441
Skewness	3.52225531	**Kurtosis**	17.6258847
Uncorrected SS	105833.153	**Corrected SS**	58487.975
Coeff Variation	111.317793	**Std Error Mean**	0.74527938

Basic Statistical Measures			
Location		**Variability**	
Mean	12.06969	**Std Deviation**	13.43572
Median	8.10000	**Variance**	180.51844
Mode	2.00000	**Range**	106.70000
		Interquartile Range	11.40000

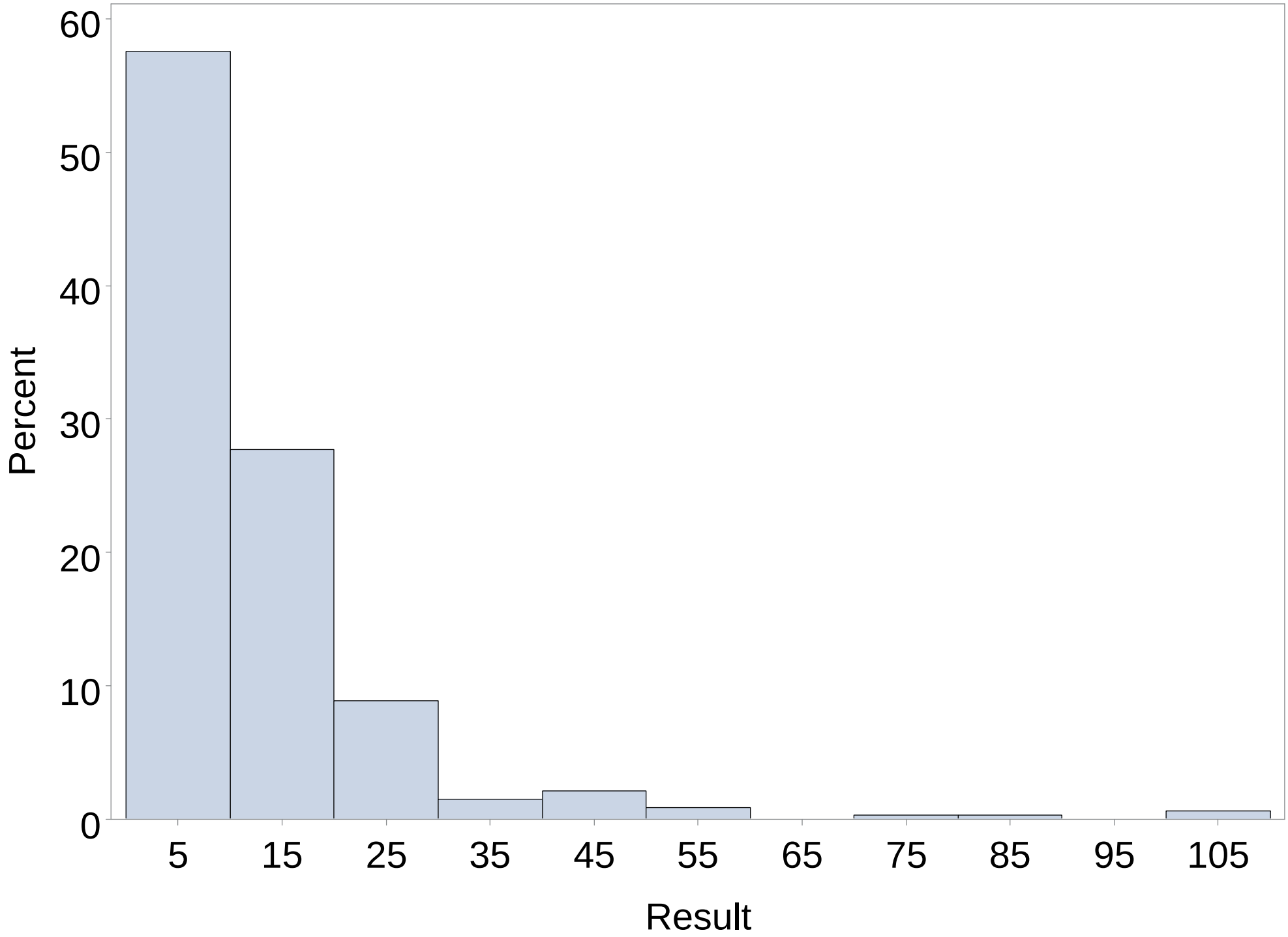
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.19486	**Pr > |t|**	<.0001
Sign	**M**	162.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26487.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	107.20
99%	72.00
95%	31.00
90%	23.50
75% Q3	15.70
50% Median	8.10
25% Q1	4.30
10%	2.00
5%	1.40
1%	0.61
0% Min	0.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	3226	59.9	3081
0.50	3212	72.0	3082
0.50	3133	82.4	3035
0.61	3242	104.0	3268
1.00	3237	107.2	2990


Parameter=Chlorophyll a (ug/L) STATION=7
Percent
60
50
40
30
20
10
0
5
15
25
35
45
55
65
75
85
95
105
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=8

Moments			
N	326	**Sum Weights**	326
Mean	15.1164417	**Sum Observations**	4927.96
Std Deviation	19.8051184	**Variance**	392.242714
Skewness	5.3823505	**Kurtosis**	44.1418469
Uncorrected SS	201972.102	**Corrected SS**	127478.882
Coeff Variation	131.017066	**Std Error Mean**	1.09690406

Basic Statistical Measures			
Location		**Variability**	
Mean	15.11644	**Std Deviation**	19.80512
Median	10.05000	**Variance**	392.24271
Mode	2.50000	**Range**	224.10000
		Interquartile Range	13.10000

Note: The mode displayed is the smallest of 3 modes with a count of 6.

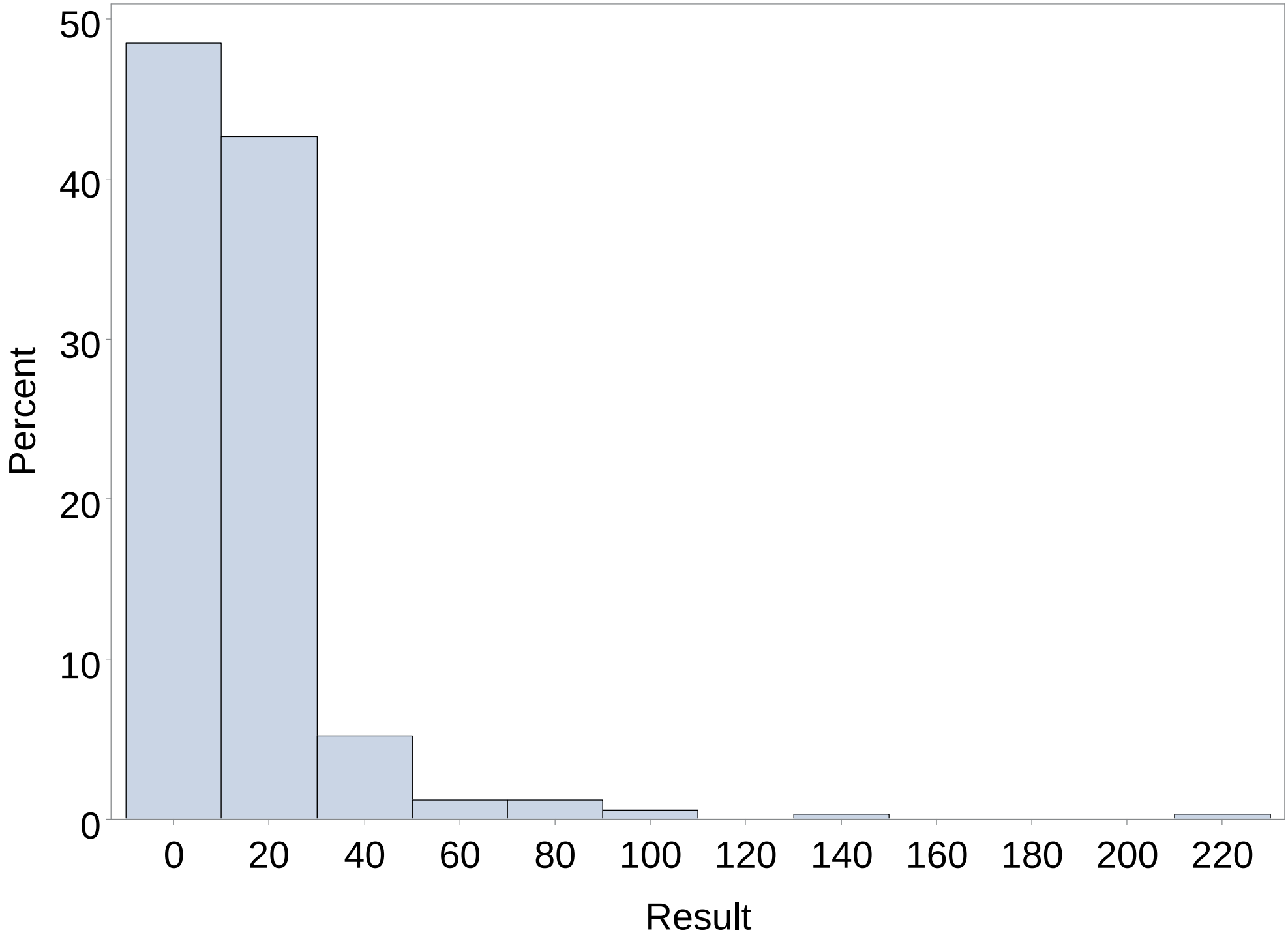
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.78101	**Pr > |t|**	<.0001
Sign	**M**	163	**Pr >= |M|**	<.0001
Signed Rank	**S**	26650.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	224.60
99%	96.10
95%	42.60
90%	29.00
75% Q3	18.00
50% Median	10.05
25% Q1	4.90
10%	2.50
5%	1.90
1%	0.77
0% Min	0.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	3459	87.6	3432
0.50	3424	96.1	3313
0.60	3411	96.3	3360
0.77	3563	135.0	3417
0.80	3319	224.6	3315


Parameter=Chlorophyll a (ug/L) STATION=8
Percent
50
40
30
20
10
0
0
20
40
60
80
100
120
140
160
180
200
220
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=9

Moments			
N	327	**Sum Weights**	327
Mean	16.4037309	**Sum Observations**	5364.02
Std Deviation	32.2864153	**Variance**	1042.41261
Skewness	8.75298015	**Kurtosis**	100.721118
Uncorrected SS	427816.453	**Corrected SS**	339826.512
Coeff Variation	196.82361	**Std Error Mean**	1.78544285

Basic Statistical Measures			
Location		**Variability**	
Mean	16.40373	**Std Deviation**	32.28642
Median	9.30000	**Variance**	1042
Mode	11.00000	**Range**	440.80000
		Interquartile Range	11.80000

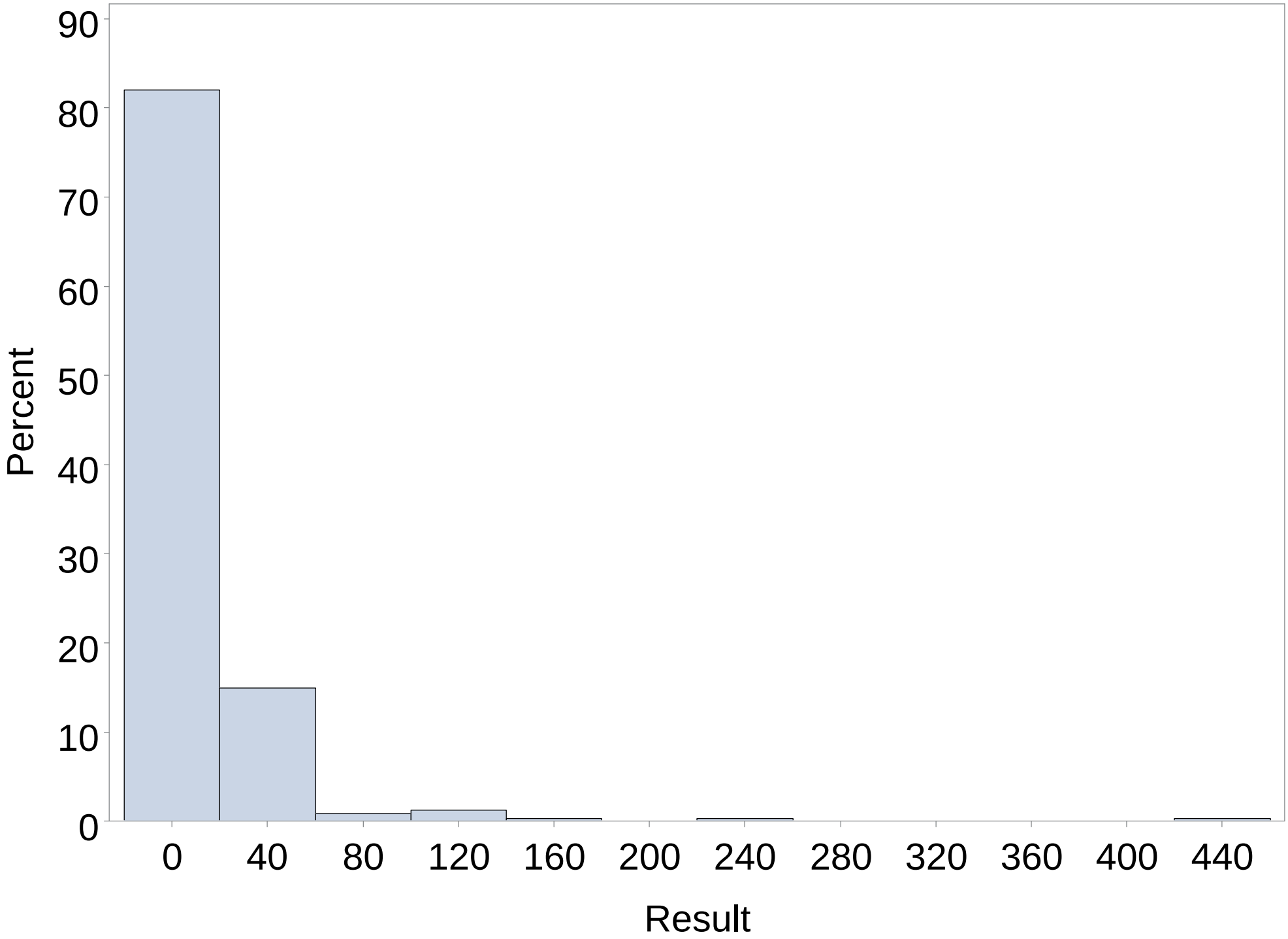
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.187486	**Pr > |t|**	<.0001
Sign	**M**	163.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26814	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	441.3
99%	110.3
95%	46.4
90%	32.3
75% Q3	16.8
50% Median	9.3
25% Q1	5.0
10%	2.4
5%	1.8
1%	1.0
0% Min	0.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a (ug/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.50	3786	110.0	3876
0.80	3656	110.3	3634
0.96	3913	153.7	3632
1.00	3822	246.0	3745
1.09	3923	441.3	3635


Parameter=Chlorophyll a (ug/L) STATION=9
Percent
90
80
70
60
50
40
30
20
10
0
0
40
80
120
160
200
240
280
320
360
400
440
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=1

Moments			
N	330	**Sum Weights**	330
Mean	99.4378788	**Sum Observations**	32814.5
Std Deviation	52.3757054	**Variance**	2743.21452
Skewness	1.79278078	**Kurtosis**	6.62662325
Uncorrected SS	4165521.85	**Corrected SS**	902517.577
Coeff Variation	52.6717847	**Std Error Mean**	2.88318769

Basic Statistical Measures			
Location		**Variability**	
Mean	99.4379	**Std Deviation**	52.37571
Median	95.9500	**Variance**	2743
Mode	100.0000	**Range**	400.30000
		Interquartile Range	56.20000

Note: The mode displayed is the smallest of 2 modes with a count of 10.

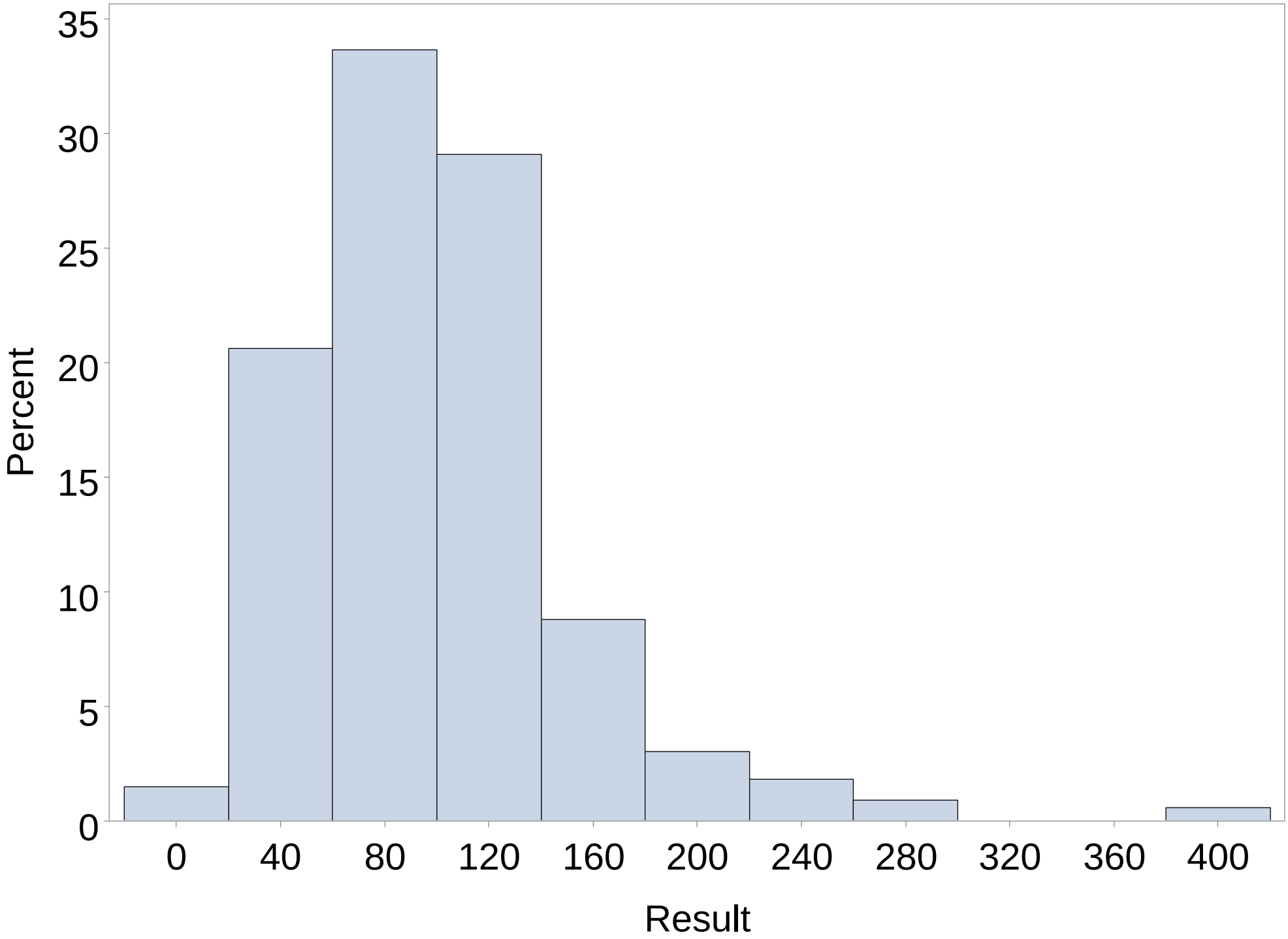
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.48887	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	403.00
99%	275.00
95%	200.00
90%	151.50
75% Q3	120.00
50% Median	95.95
25% Q1	63.80
10%	43.35
5%	34.00
1%	15.00
0% Min	2.70

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.7	4189	274	4043
4.3	4221	275	4054
12.0	4123	290	4045
15.0	4245	390	4051
18.5	3985	403	4042


Parameter=Chloride (mg/L) STATION=1
Percent
35
30
25
20
15
10
5
0
0
40
80
120
160
200
240
280
320
360
400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=2

Moments			
N	331	**Sum Weights**	331
Mean	160.927795	**Sum Observations**	53267.1
Std Deviation	78.70135	**Variance**	6193.9025
Skewness	0.50971543	**Kurtosis**	-0.024483
Uncorrected SS	10616144.8	**Corrected SS**	2043987.82
Coeff Variation	48.904759	**Std Error Mean**	4.32581742

Basic Statistical Measures			
Location		**Variability**	
Mean	160.9278	**Std Deviation**	78.70135
Median	157.0000	**Variance**	6194
Mode	110.0000	**Range**	403.20000
		Interquartile Range	110.00000

Note: The mode displayed is the smallest of 4 modes with a count of 9.

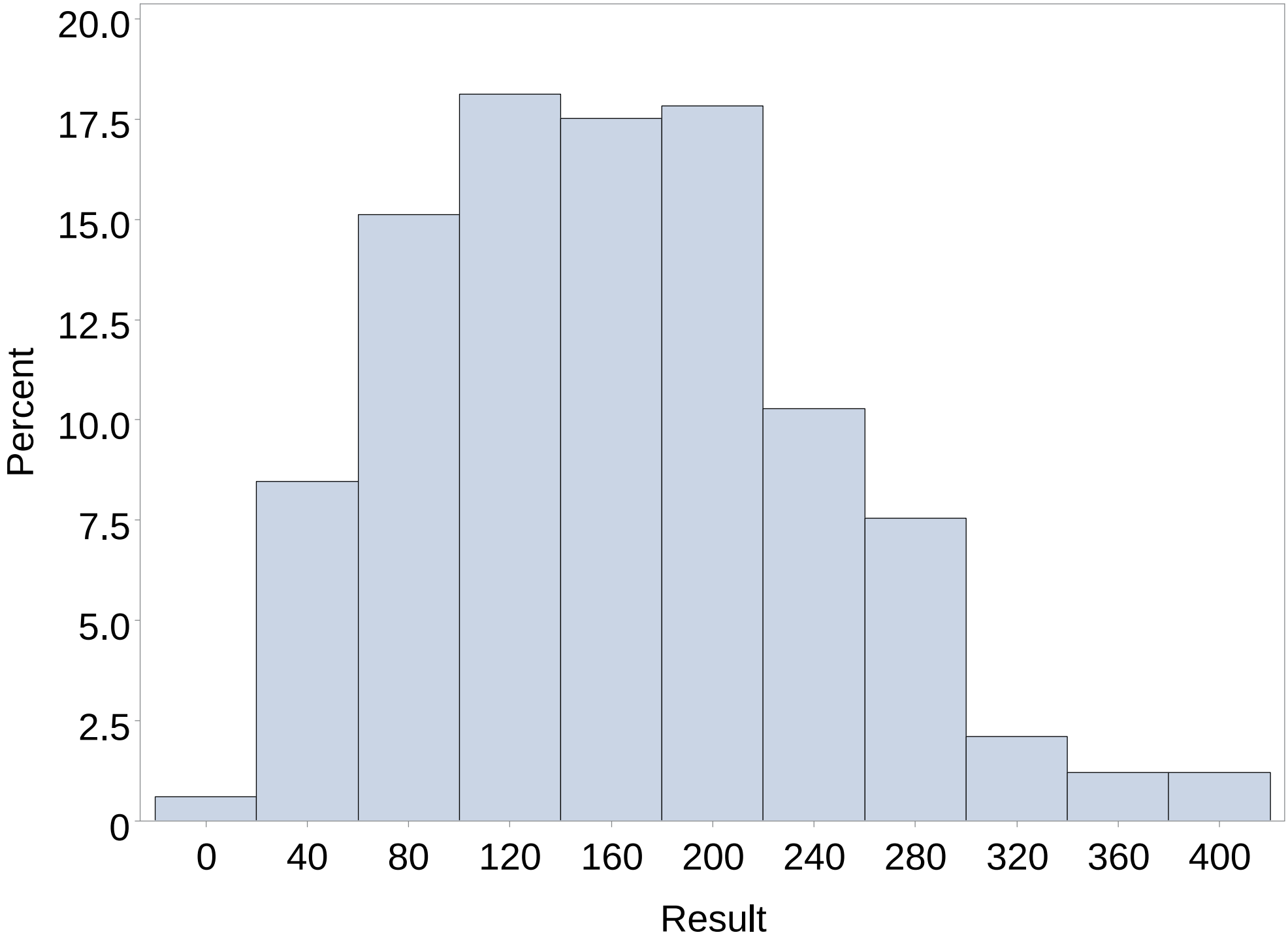
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.20171	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	409.0
99%	380.0
95%	290.6
90%	269.0
75% Q3	210.0
50% Median	157.0
25% Q1	100.0
10%	62.1
5%	47.8
1%	27.0
0% Min	5.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.8	4518	372	4371
6.5	4551	380	4372
21.2	4432	382	4380
27.0	4575	395	4373
27.1	4387	409	4359


Parameter=Chloride (mg/L) STATION=2
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
40
80
120
160
200
240
280
320
360
400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=3

Moments			
N	329	**Sum Weights**	329
Mean	113.537994	**Sum Observations**	37354
Std Deviation	52.4553613	**Variance**	2751.56492
Skewness	0.85251604	**Kurtosis**	1.45160351
Uncorrected SS	5143611.52	**Corrected SS**	902513.295
Coeff Variation	46.2007117	**Std Error Mean**	2.89195768

Basic Statistical Measures			
Location		**Variability**	
Mean	113.5380	**Std Deviation**	52.45536
Median	110.0000	**Variance**	2752
Mode	110.0000	**Range**	313.90000
		Interquartile Range	74.60000

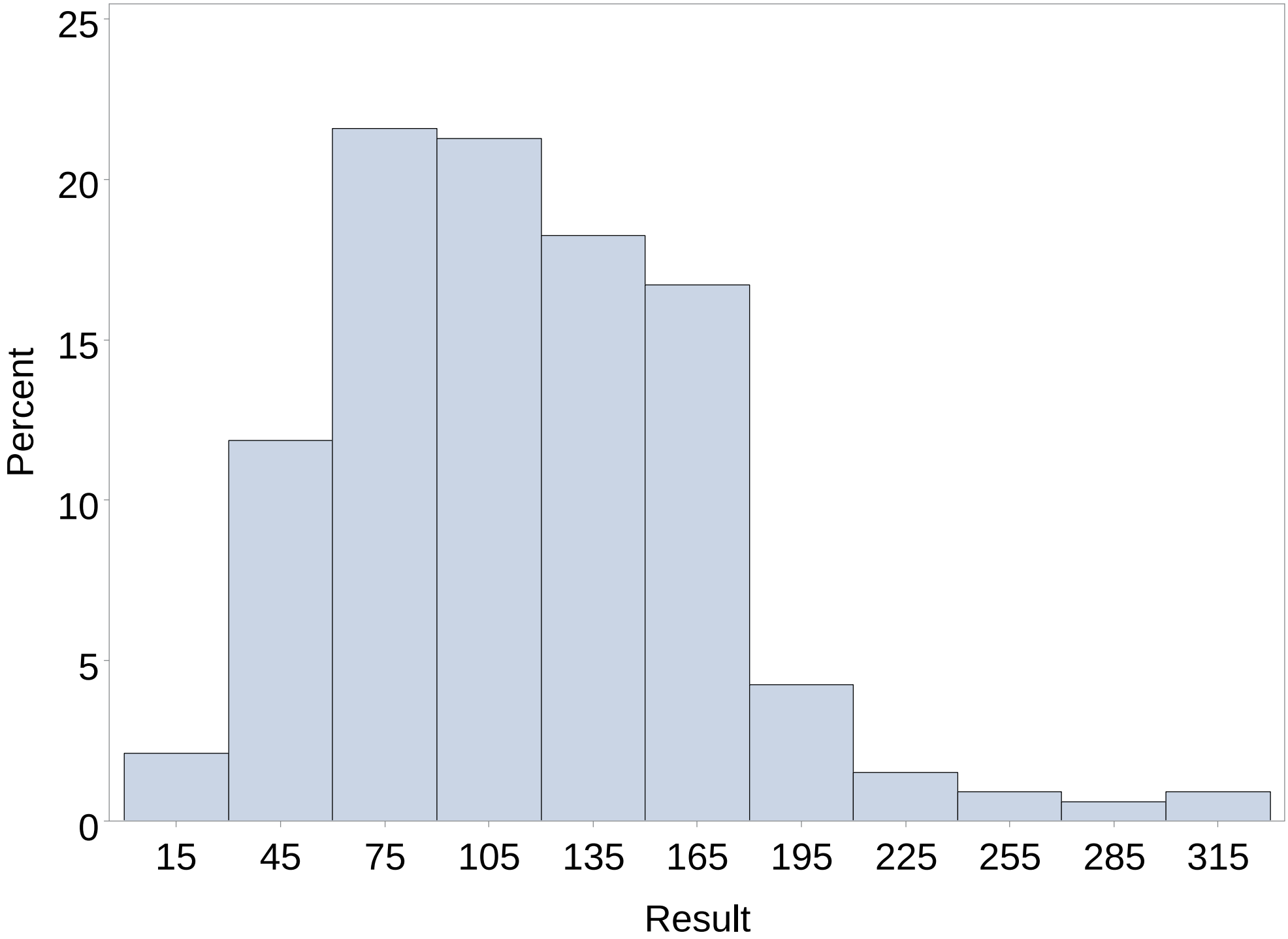
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	39.25991	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	320.0
99%	287.0
95%	202.0
90%	176.0
75% Q3	149.0
50% Median	110.0
25% Q1	74.4
10%	50.6
5%	39.0
1%	26.8
0% Min	6.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.1	4881	277	4715
20.9	4788	287	4714
22.0	4901	312	4704
26.8	4718	314	4727
26.8	4646	320	4713


Parameter=Chloride (mg/L) STATION=3
Percent
25
20
15
10
5
0
15
45
75
105
135
165
195
225
255
285
315
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=4

Moments			
N	3	**Sum Weights**	3
Mean	96.7333333	**Sum Observations**	290.2
Std Deviation	58.6601512	**Variance**	3441.01333
Skewness	-1.4620233	**Kurtosis**	.
Uncorrected SS	34954.04	**Corrected SS**	6882.02667
Coeff Variation	60.6410935	**Std Error Mean**	33.8674541

Basic Statistical Measures			
Location		**Variability**	
Mean	96.7333	**Std Deviation**	58.66015
Median	119.0000	**Variance**	3441
Mode	.	**Range**	110.80000
		Interquartile Range	110.80000

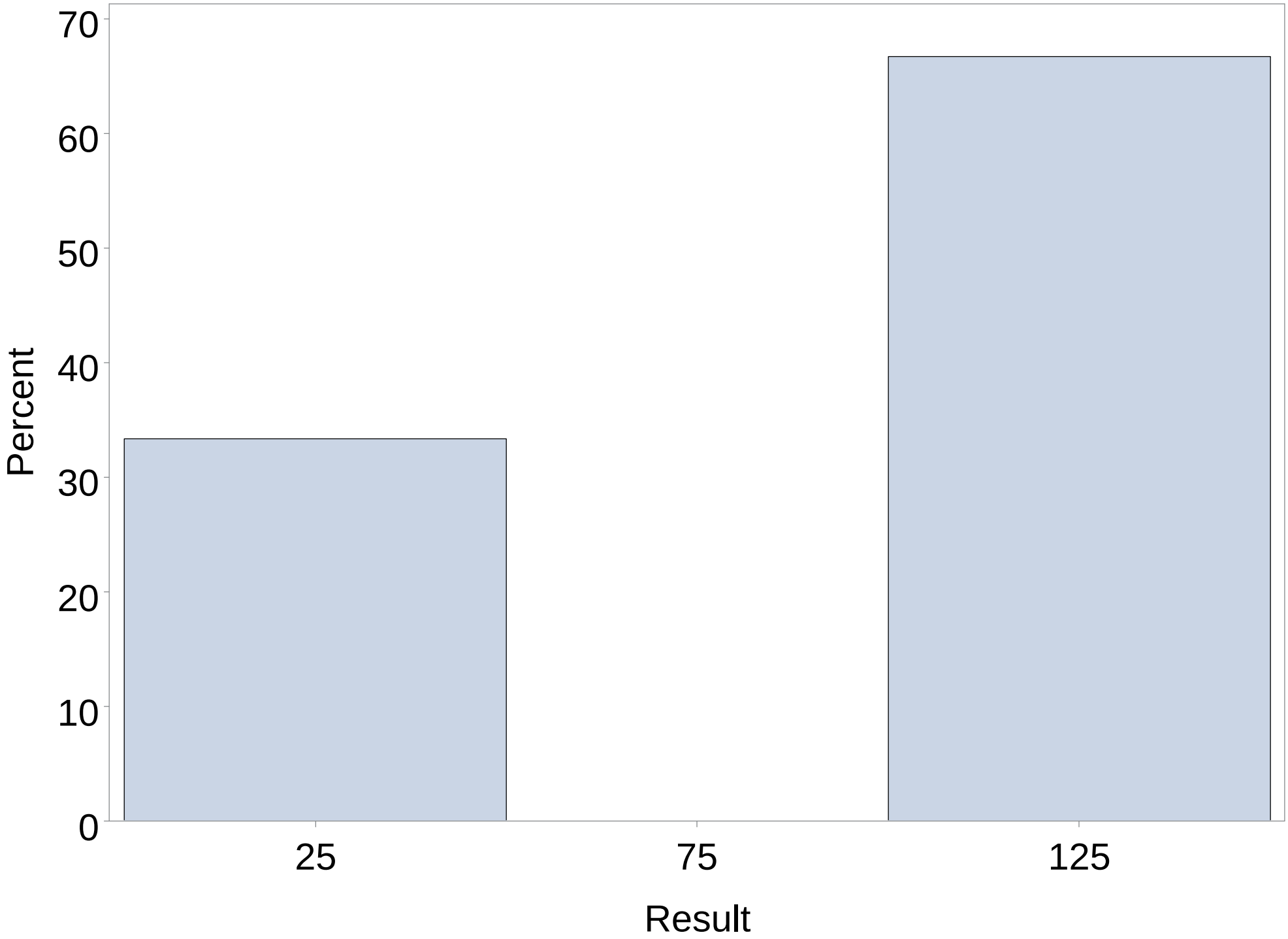
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	2.856233	**Pr > |t|**	0.1038
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	141.0
99%	141.0
95%	141.0
90%	141.0
75% Q3	141.0
50% Median	119.0
25% Q1	30.2
10%	30.2
5%	30.2
1%	30.2
0% Min	30.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
30.2	4920	30.2	4920
119.0	4921	119.0	4921
141.0	4922	141.0	4922


Parameter=Chloride (mg/L) STATION=4
70
60
50
40
30
20
10
0
Percent
25
75
125
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=5

Moments			
N	1	Sum Weights	1
Mean	235	Sum Observations	235
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	55225	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	235.0000	Std Deviation	.
Median	235.0000	Variance	.
Mode	235.0000	Range	0
		Interquartile Range	0

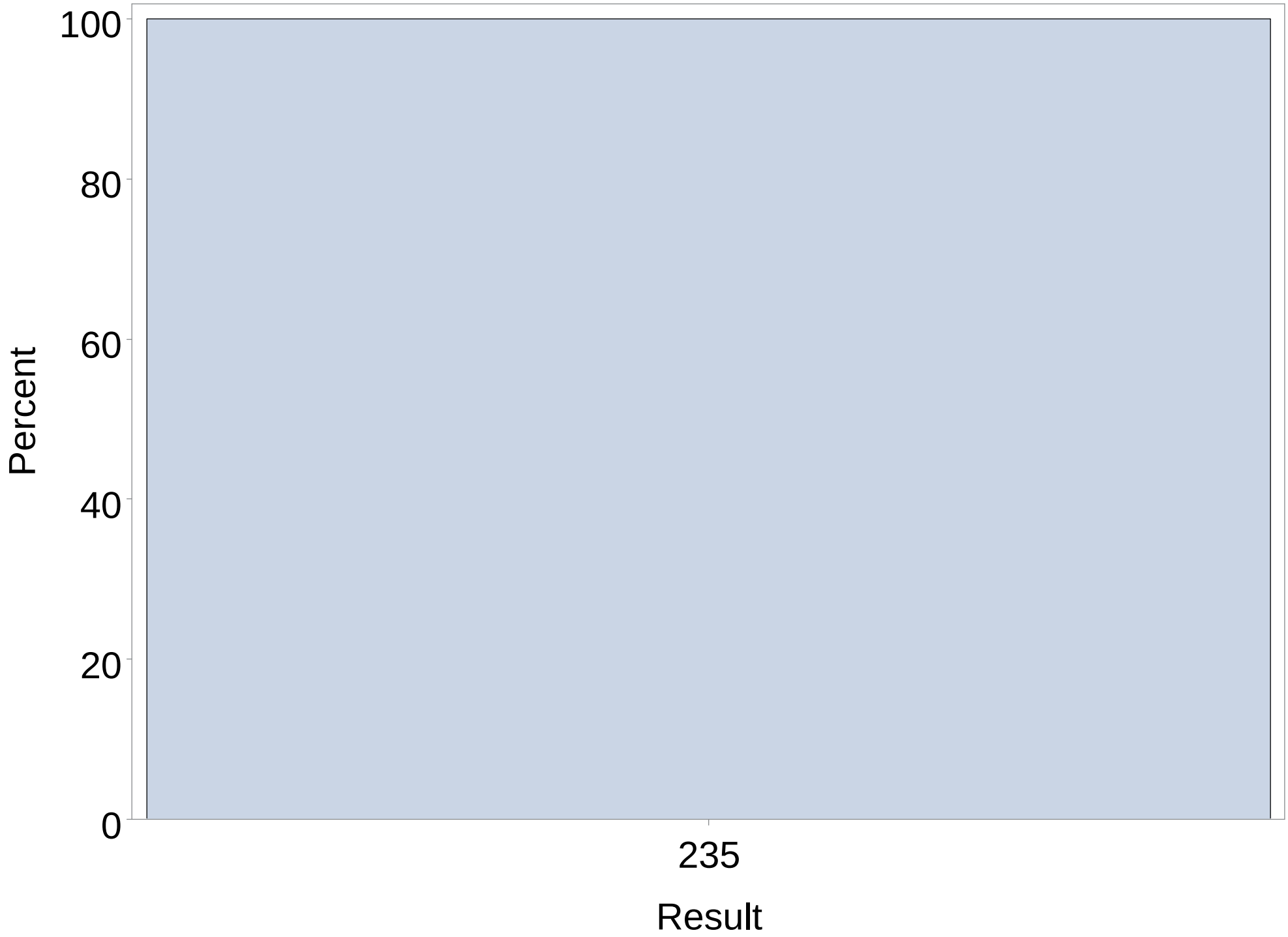
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	235
99%	235
95%	235
90%	235
75% Q3	235
50% Median	235
25% Q1	235
10%	235
5%	235
1%	235
0% Min	235

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
235	4923	235	4923


Parameter=Chloride (mg/L) STATION=5
100
80
60
40
20
0
Percent
235
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=6

Moments			
N	1	Sum Weights	1
Mean	411	Sum Observations	411
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	168921	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	411.0000	Std Deviation	.
Median	411.0000	Variance	.
Mode	411.0000	Range	0
		Interquartile Range	0

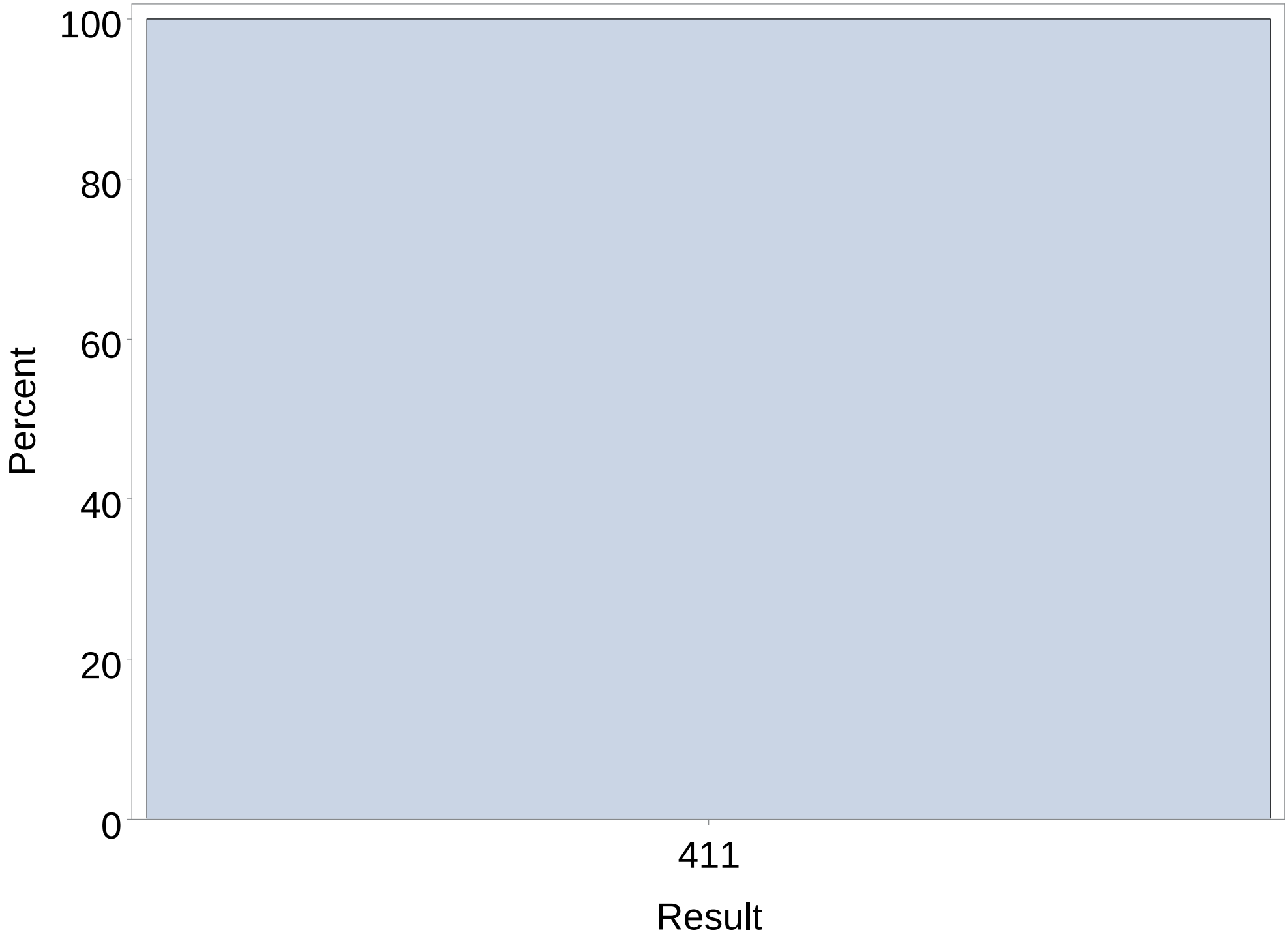
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	411
99%	411
95%	411
90%	411
75% Q3	411
50% Median	411
25% Q1	411
10%	411
5%	411
1%	411
0% Min	411

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
411	4924	411	4924


Parameter=Chloride (mg/L) STATION=6
100
80
60
40
20
0
Percent
411
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=7

Moments			
N	1	Sum Weights	1
Mean	188	Sum Observations	188
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	35344	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	188.0000	Std Deviation	.
Median	188.0000	Variance	.
Mode	188.0000	Range	0
		Interquartile Range	0

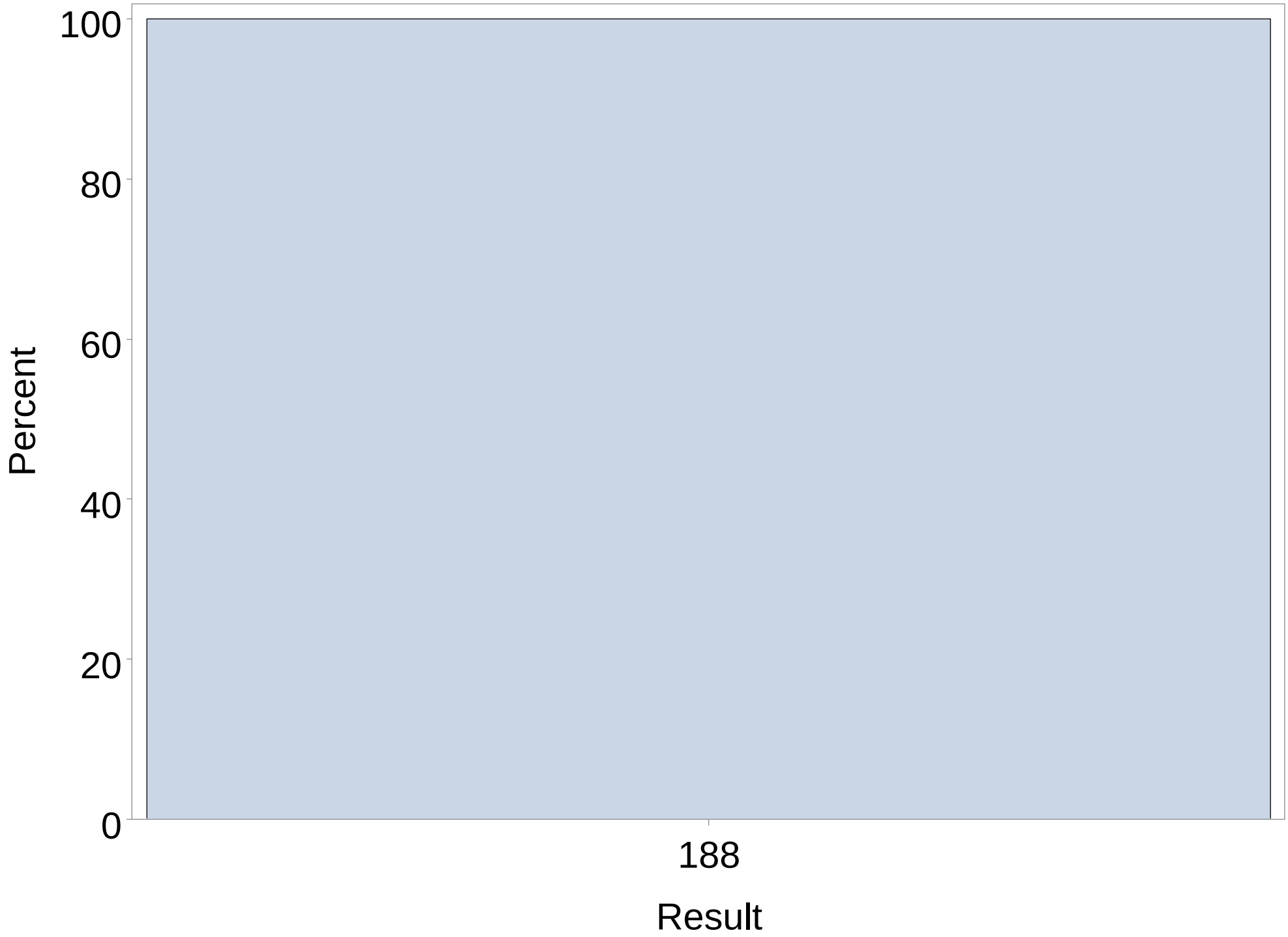
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	188
99%	188
95%	188
90%	188
75% Q3	188
50% Median	188
25% Q1	188
10%	188
5%	188
1%	188
0% Min	188

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
188	4925	188	4925


Parameter=Chloride (mg/L) STATION=7
100
80
60
40
20
0
Percent
188
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=8

Moments			
N	1	**Sum Weights**	1
Mean	495	**Sum Observations**	495
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	245025	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	495.0000	**Std Deviation**	.
Median	495.0000	**Variance**	.
Mode	495.0000	**Range**	0
		Interquartile Range	0

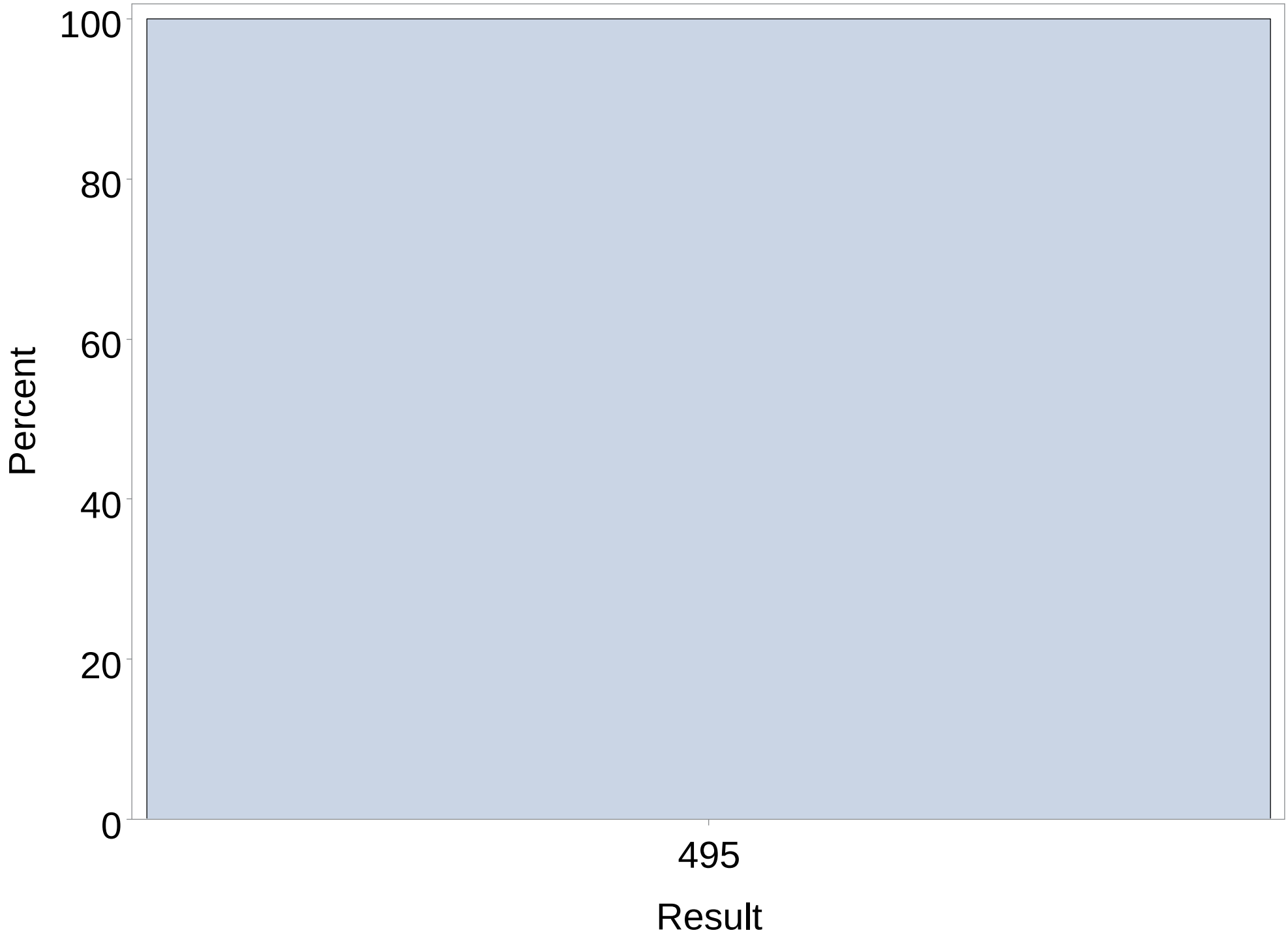
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	495
99%	495
95%	495
90%	495
75% Q3	495
50% Median	495
25% Q1	495
10%	495
5%	495
1%	495
0% Min	495

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
495	4926	495	4926


Parameter=Chloride (mg/L) STATION=8
100
80
60
40
20
0
Percent
495
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=9

Moments			
N	3	**Sum Weights**	3
Mean	207.333333	**Sum Observations**	622
Std Deviation	165.315859	**Variance**	27329.3333
Skewness	1.71381606	**Kurtosis**	.
Uncorrected SS	183620	**Corrected SS**	54658.6667
Coeff Variation	79.7343373	**Std Error Mean**	95.4451559

Basic Statistical Measures			
Location		**Variability**	
Mean	207.3333	**Std Deviation**	165.31586
Median	120.0000	**Variance**	27329
Mode	.	**Range**	294.00000
		Interquartile Range	294.00000

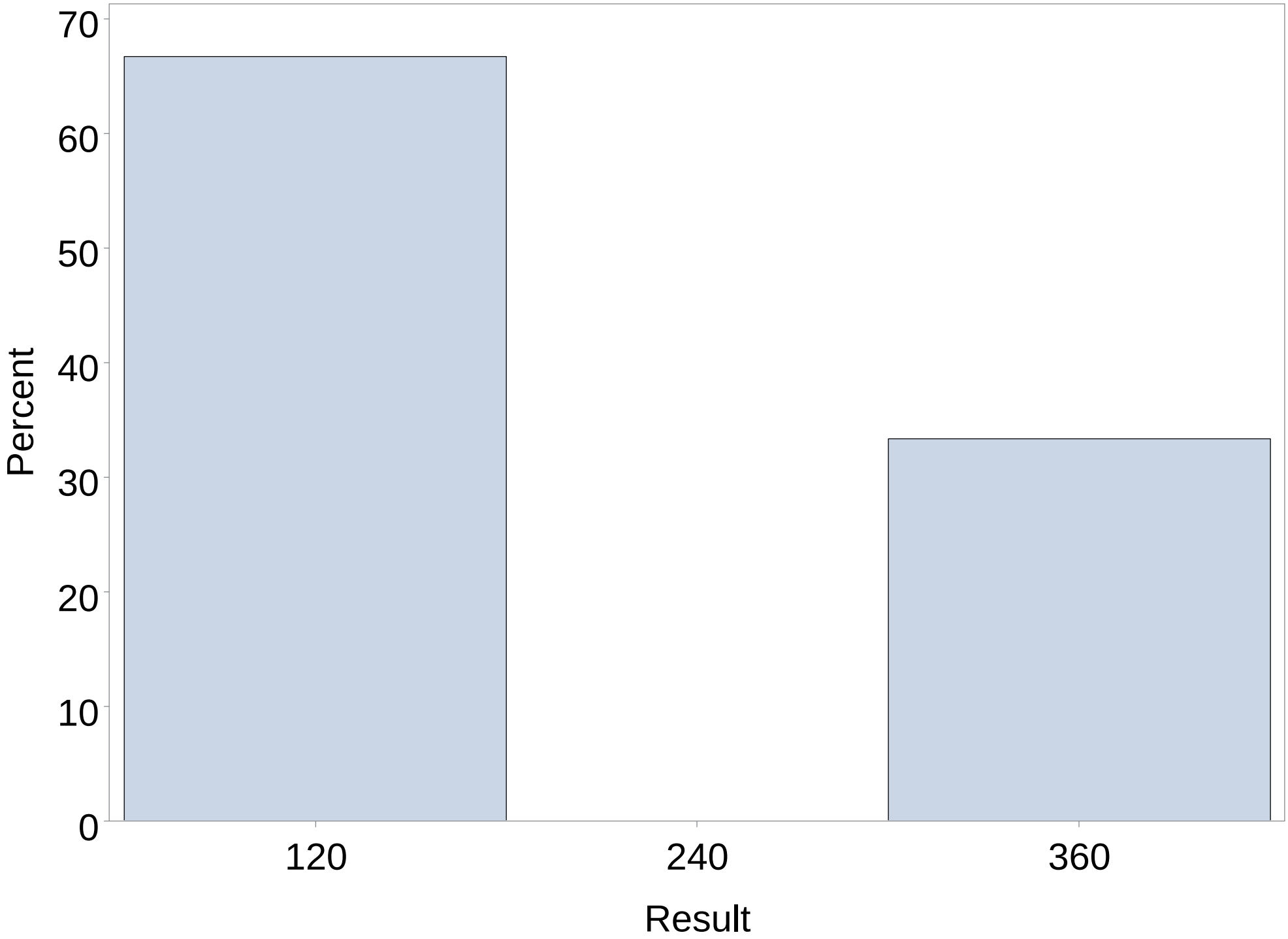
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	2.172277	**Pr > |t|**	0.1620
Sign	**M**	1.5	**Pr >= |M|**	0.2500
Signed Rank	**S**	3	**Pr >= |S|**	0.2500

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	398
99%	398
95%	398
90%	398
75% Q3	398
50% Median	120
25% Q1	104
10%	104
5%	104
1%	104
0% Min	104

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chloride (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
104	4927	104	4927
120	4929	120	4929
398	4928	398	4928


Parameter=Chloride (mg/L) STATION=9
70
60
50
40
30
20
10
0
Percent
120
240
360
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=1

Moments			
N	331	**Sum Weights**	331
Mean	136.081571	**Sum Observations**	45043
Std Deviation	89.4503214	**Variance**	8001.35999
Skewness	1.38756502	**Kurtosis**	1.88021722
Uncorrected SS	8769971	**Corrected SS**	2640448.8
Coeff Variation	65.7328694	**Std Error Mean**	4.91663432

Basic Statistical Measures			
Location		**Variability**	
Mean	136.0816	**Std Deviation**	89.45032
Median	101.0000	**Variance**	8001
Mode	70.0000	**Range**	488.00000
		Interquartile Range	110.00000

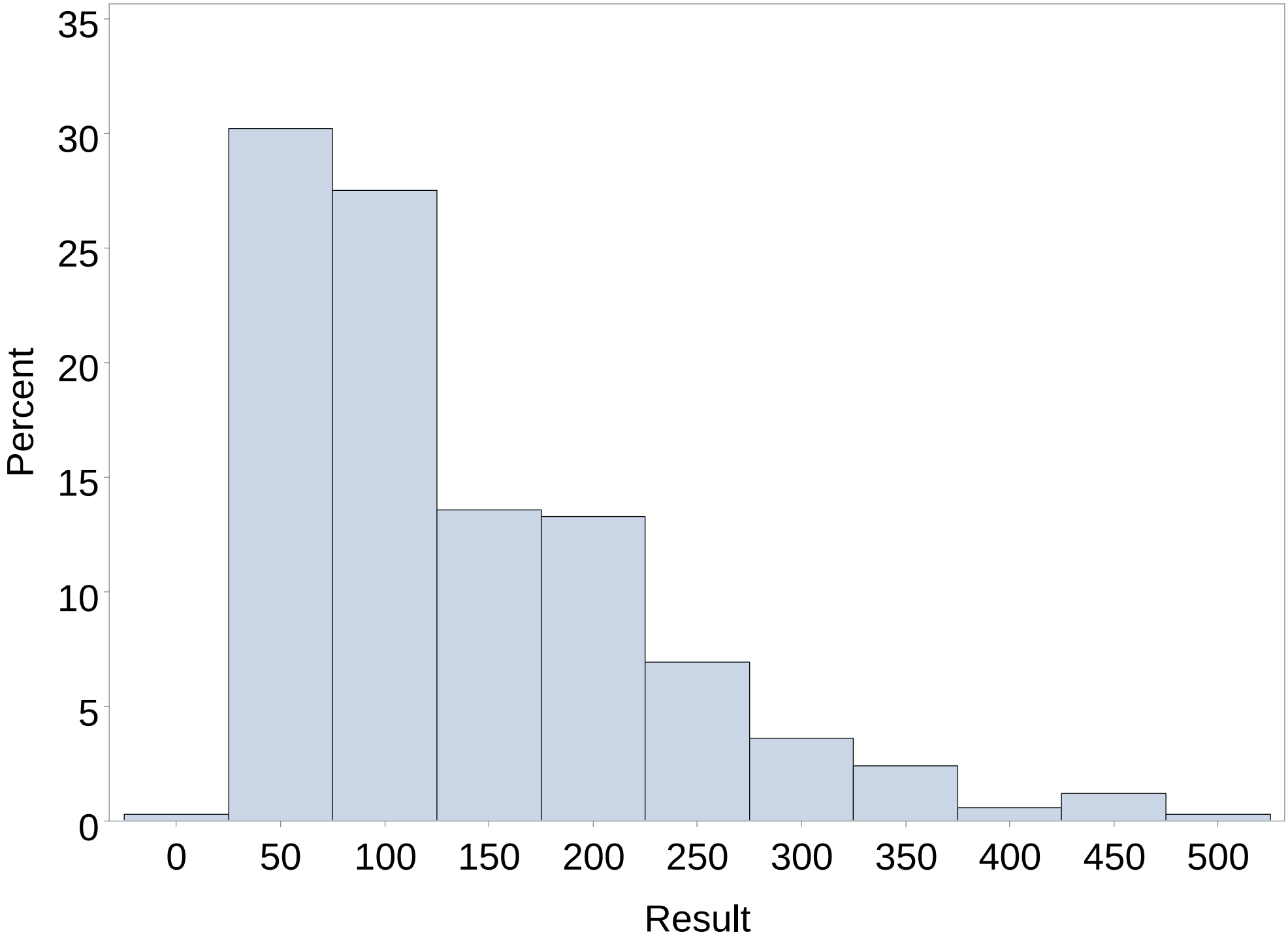
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.67779	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	450
95%	320
90%	250
75% Q3	180
50% Median	101
25% Q1	70
10%	50
5%	45
1%	40
0% Min	12

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12	4994	450	5078
25	4979	450	5189
40	5240	450	5234
40	5183	450	5245
40	5148	500	5226


Parameter=Color (CPU) STATION=1
Percent
35
30
25
20
15
10
5
0
0
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=2

Moments			
N	332	**Sum Weights**	332
Mean	109.801205	**Sum Observations**	36454
Std Deviation	75.9306982	**Variance**	5765.47094
Skewness	1.64165938	**Kurtosis**	3.44112609
Uncorrected SS	5911064	**Corrected SS**	1908370.88
Coeff Variation	69.1528826	**Std Error Mean**	4.16723845

Basic Statistical Measures			
Location		**Variability**	
Mean	109.8012	**Std Deviation**	75.93070
Median	80.0000	**Variance**	5765
Mode	50.0000	**Range**	490.00000
		Interquartile Range	99.00000

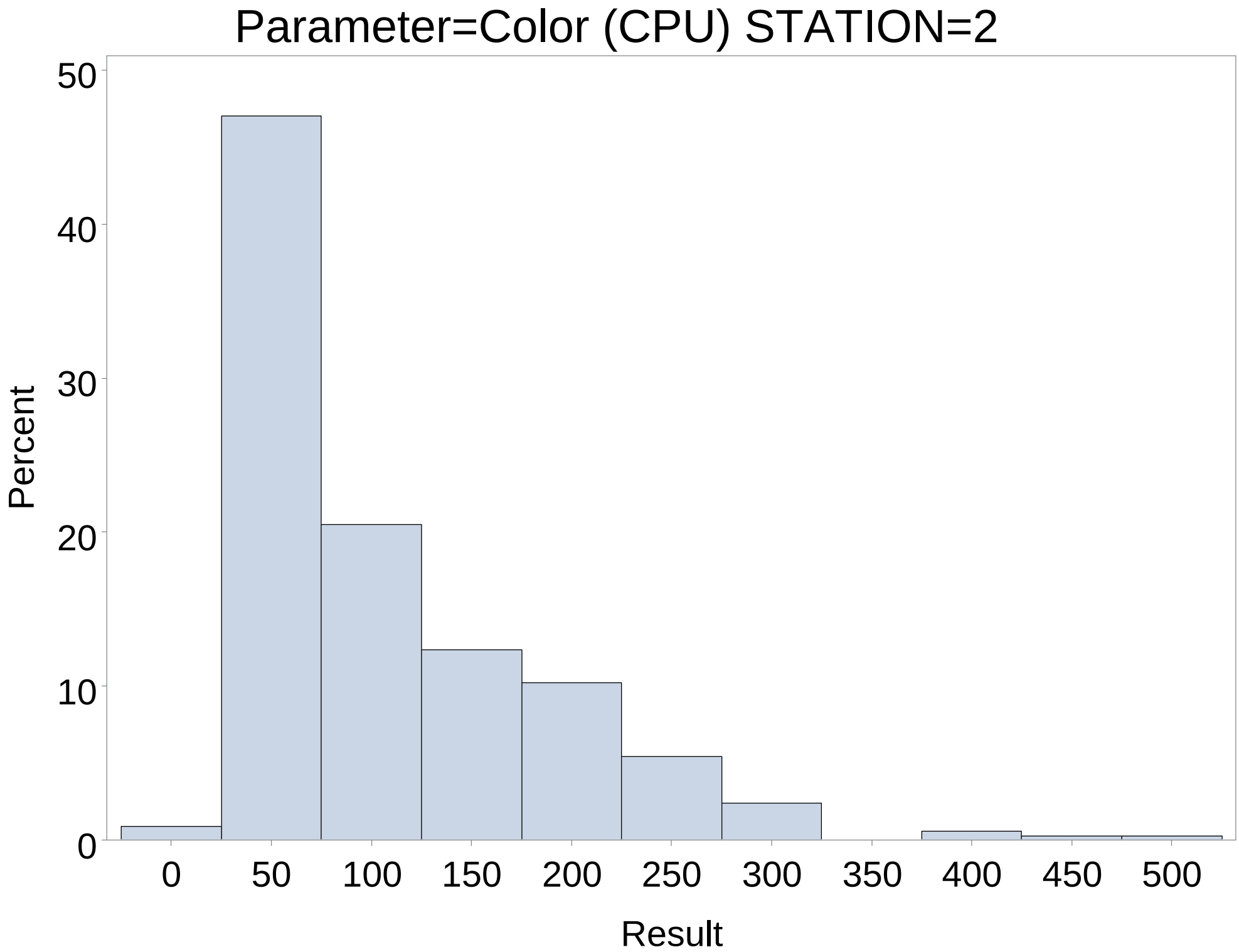
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.34867	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	380
95%	250
90%	220
75% Q3	150
50% Median	80
25% Q1	51
10%	45
5%	40
1%	29
0% Min	10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	5439	320	5387
13	5325	380	5527
20	5310	400	5558
29	5289	450	5389
34	5573	500	5409


Parameter=Color (CPU) STATION=2
Percent
50
40
30
20
10
0
0
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=3

Moments			
N	332	**Sum Weights**	332
Mean	125.259036	**Sum Observations**	41586
Std Deviation	82.5632729	**Variance**	6816.69403
Skewness	1.52478313	**Kurtosis**	3.69194274
Uncorrected SS	7465348	**Corrected SS**	2256325.72
Coeff Variation	65.9140254	**Std Error Mean**	4.53124827

Basic Statistical Measures			
Location		**Variability**	
Mean	125.2590	**Std Deviation**	82.56327
Median	100.0000	**Variance**	6817
Mode	70.0000	**Range**	590.00000
		Interquartile Range	120.00000

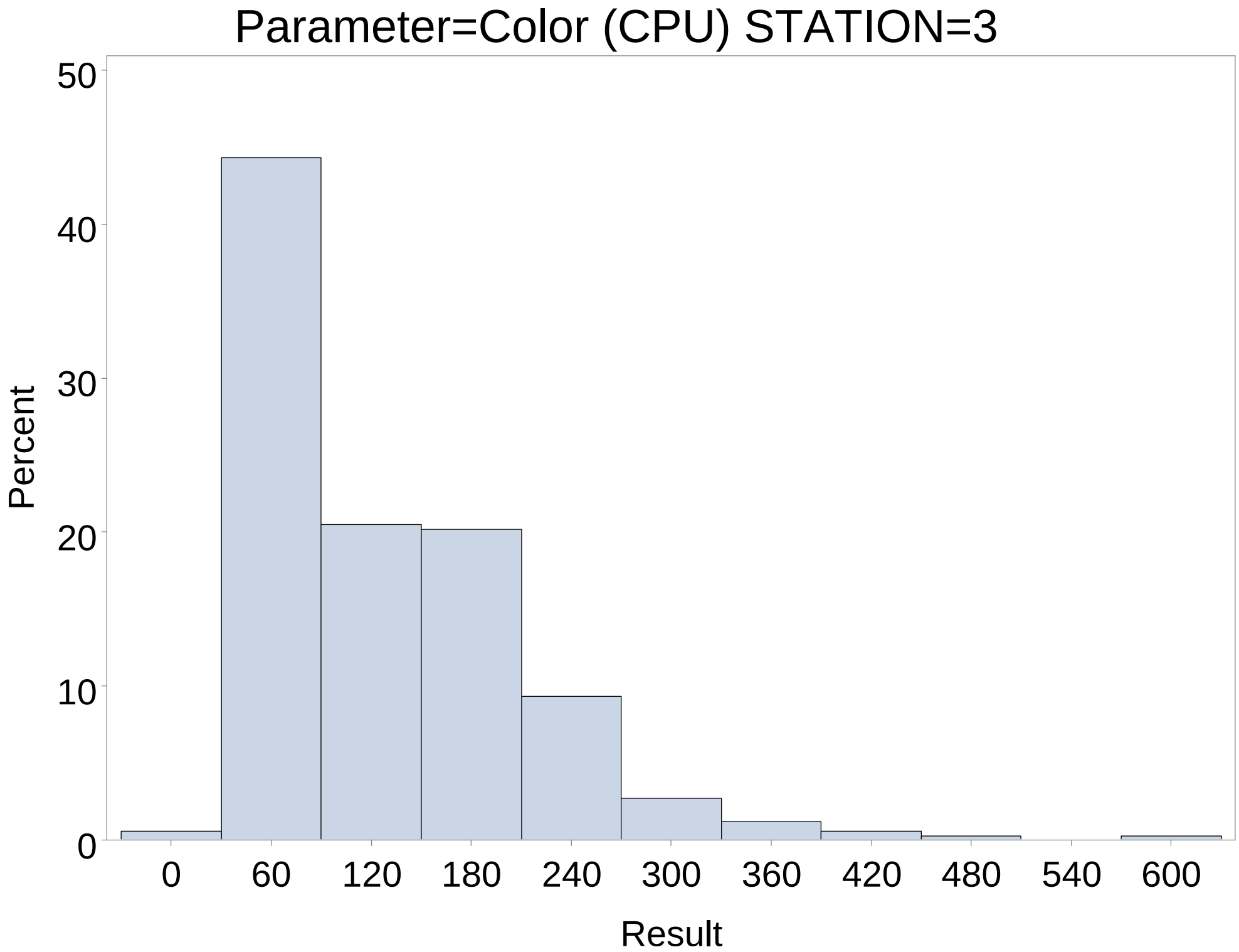
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.64338	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	600
99%	400
95%	300
90%	230
75% Q3	180
50% Median	100
25% Q1	60
10%	46
5%	45
1%	38
0% Min	10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	5657	350	5803
20	5642	400	5881
38	5667	400	5898
38	5665	450	5890
40	5904	600	5839


Parameter=Color (CPU) STATION=3
Percent
50
40
30
20
10
0
0
60
120
180
240
300
360
420
480
540
600
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=4

Moments			
N	331	**Sum Weights**	331
Mean	133.311178	**Sum Observations**	44126
Std Deviation	90.2745131	**Variance**	8149.48772
Skewness	1.77495013	**Kurtosis**	4.33368816
Uncorrected SS	8571820	**Corrected SS**	2689330.95
Coeff Variation	67.7171369	**Std Error Mean**	4.961936

Basic Statistical Measures			
Location		**Variability**	
Mean	133.3112	**Std Deviation**	90.27451
Median	100.0000	**Variance**	8149
Mode	80.0000	**Range**	580.00000
		Interquartile Range	105.00000

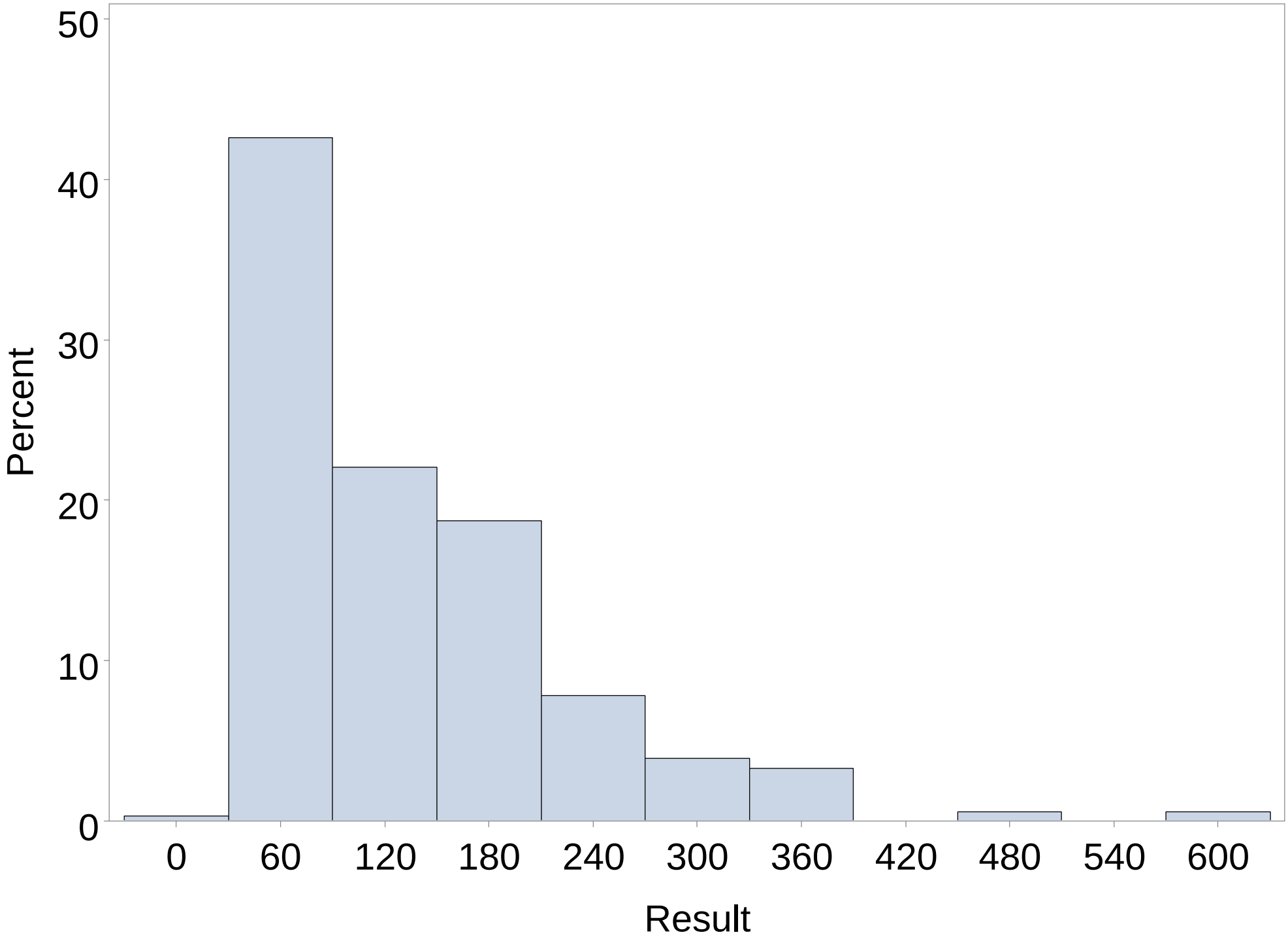
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.86677	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	600
99%	450
95%	316
90%	250
75% Q3	175
50% Median	100
25% Q1	70
10%	55
5%	50
1%	42
0% Min	20

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	5974	380	6190
37	5997	450	6073
40	6113	450	6221
42	6033	600	6075
45	6127	600	6170


Parameter=Color (CPU) STATION=4
Percent
50
40
30
20
10
0
0
60
120
180
240
300
360
420
480
540
600
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=5

Moments			
N	332	**Sum Weights**	332
Mean	130.340361	**Sum Observations**	43273
Std Deviation	86.5118705	**Variance**	7484.30374
Skewness	2.06442188	**Kurtosis**	7.03037014
Uncorrected SS	8117523	**Corrected SS**	2477304.54
Coeff Variation	66.3738151	**Std Error Mean**	4.74795572

Basic Statistical Measures			
Location		**Variability**	
Mean	130.3404	**Std Deviation**	86.51187
Median	100.0000	**Variance**	7484
Mode	60.0000	**Range**	680.00000
		Interquartile Range	102.50000

Note: The mode displayed is the smallest of 2 modes with a count of 24.

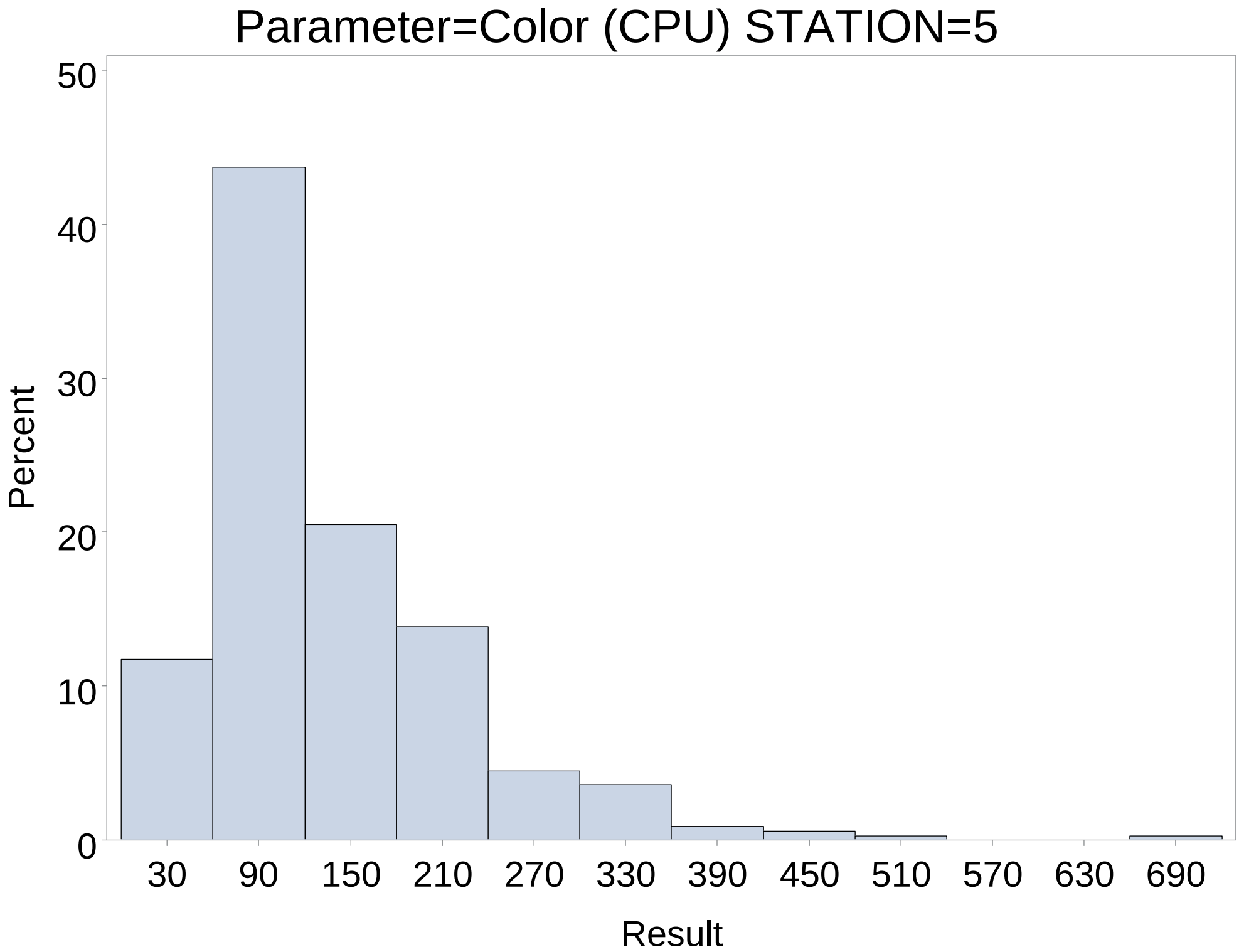
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.45189	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	700.0
99%	450.0
95%	300.0
90%	240.0
75% Q3	172.5
50% Median	100.0
25% Q1	70.0
10%	54.0
5%	50.0
1%	44.0
0% Min	20.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	6305	400	6561
43	6328	450	6502
44	6364	450	6553
44	6319	500	6404
45	6508	700	6406


Parameter=Color (CPU) STATION=5
Percent
50
40
30
20
10
0
30
90
150
210
270
330
390
450
510
570
630
690
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=6

Moments			
N	332	**Sum Weights**	332
Mean	129.51506	**Sum Observations**	42999
Std Deviation	81.7605546	**Variance**	6684.78829
Skewness	1.39779908	**Kurtosis**	2.16456854
Uncorrected SS	7781683	**Corrected SS**	2212664.92
Coeff Variation	63.1282219	**Std Error Mean**	4.48719339

Basic Statistical Measures			
Location		**Variability**	
Mean	129.5151	**Std Deviation**	81.76055
Median	100.0000	**Variance**	6685
Mode	80.0000	**Range**	490.00000
		Interquartile Range	110.00000

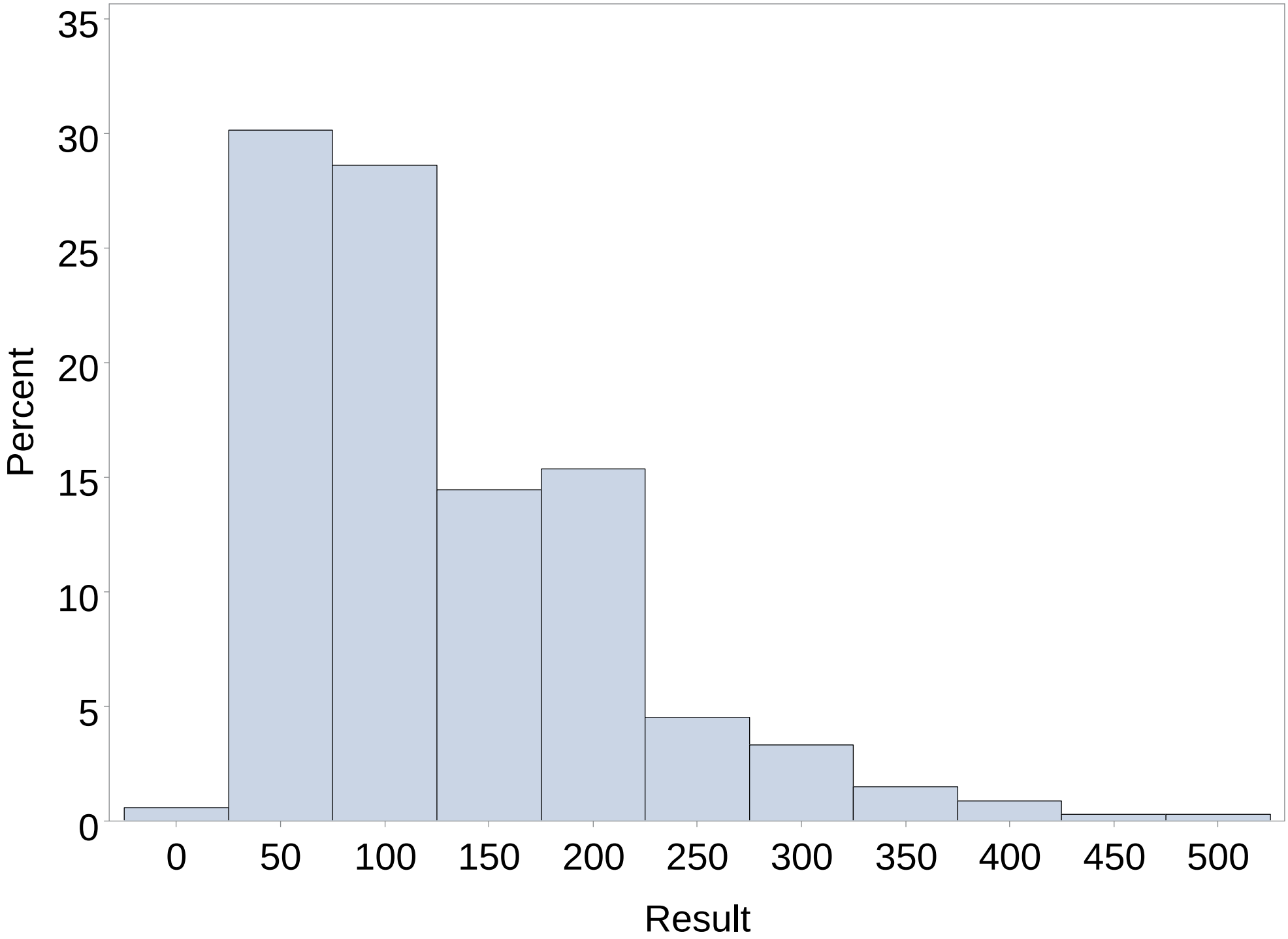
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.86327	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	400
95%	300
90%	240
75% Q3	180
50% Median	100
25% Q1	70
10%	50
5%	45
1%	40
0% Min	10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	6800	400	6736
20	6637	400	6834
40	6898	400	6883
40	6840	450	6885
44	6660	500	6738


Parameter=Color (CPU) STATION=6
Percent
35
30
25
20
15
10
5
0
0
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=7

Moments			
N	330	**Sum Weights**	330
Mean	133.093939	**Sum Observations**	43921
Std Deviation	84.160111	**Variance**	7082.92428
Skewness	1.2539651	**Kurtosis**	1.62455809
Uncorrected SS	8175901	**Corrected SS**	2330282.09
Coeff Variation	63.2336163	**Std Error Mean**	4.63286163

Basic Statistical Measures			
Location		**Variability**	
Mean	133.0939	**Std Deviation**	84.16011
Median	100.0000	**Variance**	7083
Mode	200.0000	**Range**	470.00000
		Interquartile Range	116.00000

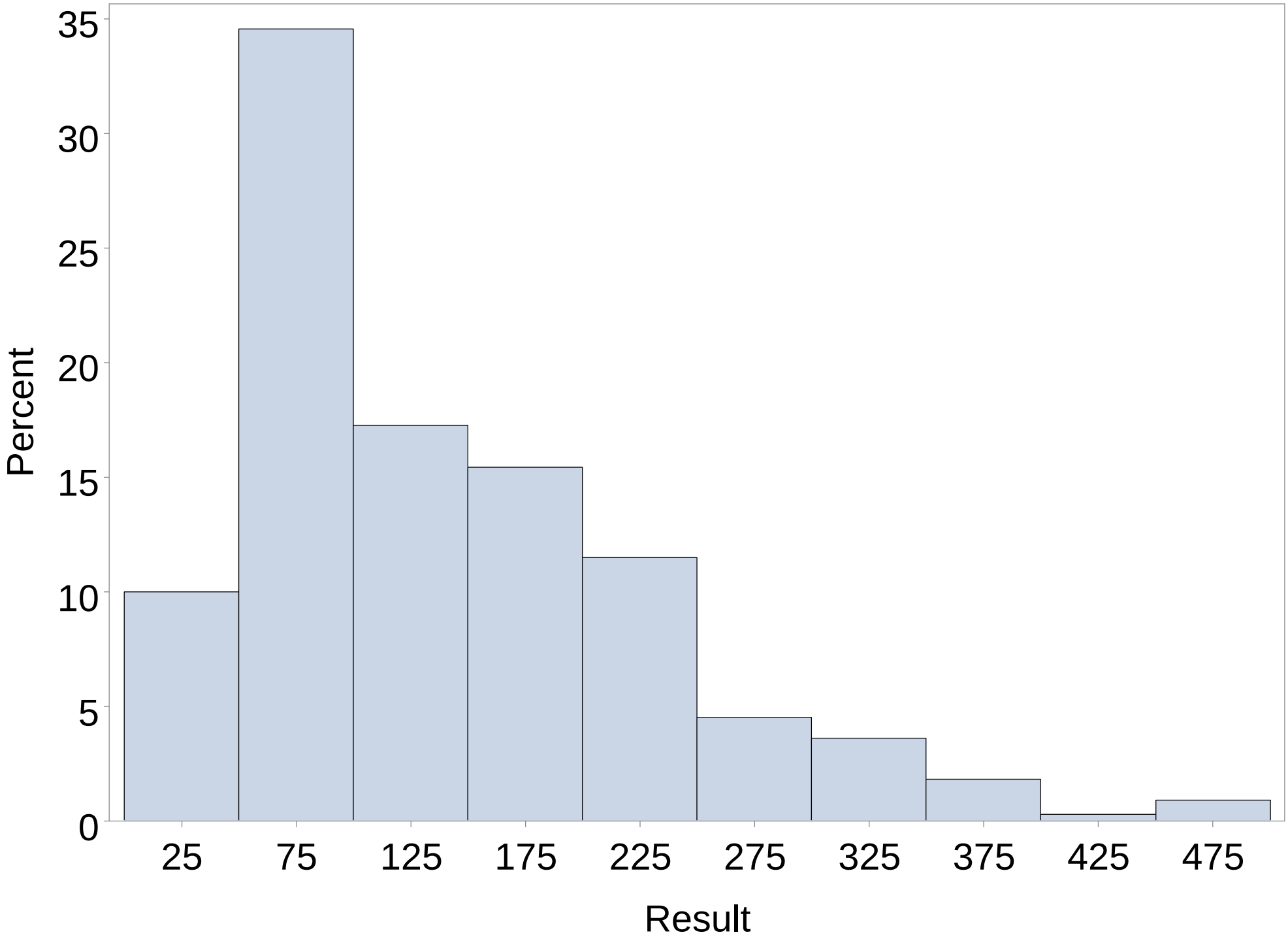
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.72824	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	490.0
99%	400.0
95%	300.0
90%	250.0
75% Q3	186.0
50% Median	100.0
25% Q1	70.0
10%	49.5
5%	45.0
1%	40.0
0% Min	20.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	6968	350	7243
35	7100	400	7128
36	6991	450	7067
40	7229	450	7215
40	7228	490	7047


Parameter=Color (CPU) STATION=7
Percent
35
30
25
20
15
10
5
0
25
75
125
175
225
275
325
375
425
475
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=8

Moments			
N	332	**Sum Weights**	332
Mean	143.957831	**Sum Observations**	47794
Std Deviation	96.4333969	**Variance**	9299.40003
Skewness	1.15739754	**Kurtosis**	1.10817386
Uncorrected SS	9958422	**Corrected SS**	3078101.41
Coeff Variation	66.9872531	**Std Error Mean**	5.29247022

Basic Statistical Measures			
Location		**Variability**	
Mean	143.9578	**Std Deviation**	96.43340
Median	120.0000	**Variance**	9299
Mode	100.0000	**Range**	475.00000
		Interquartile Range	132.50000

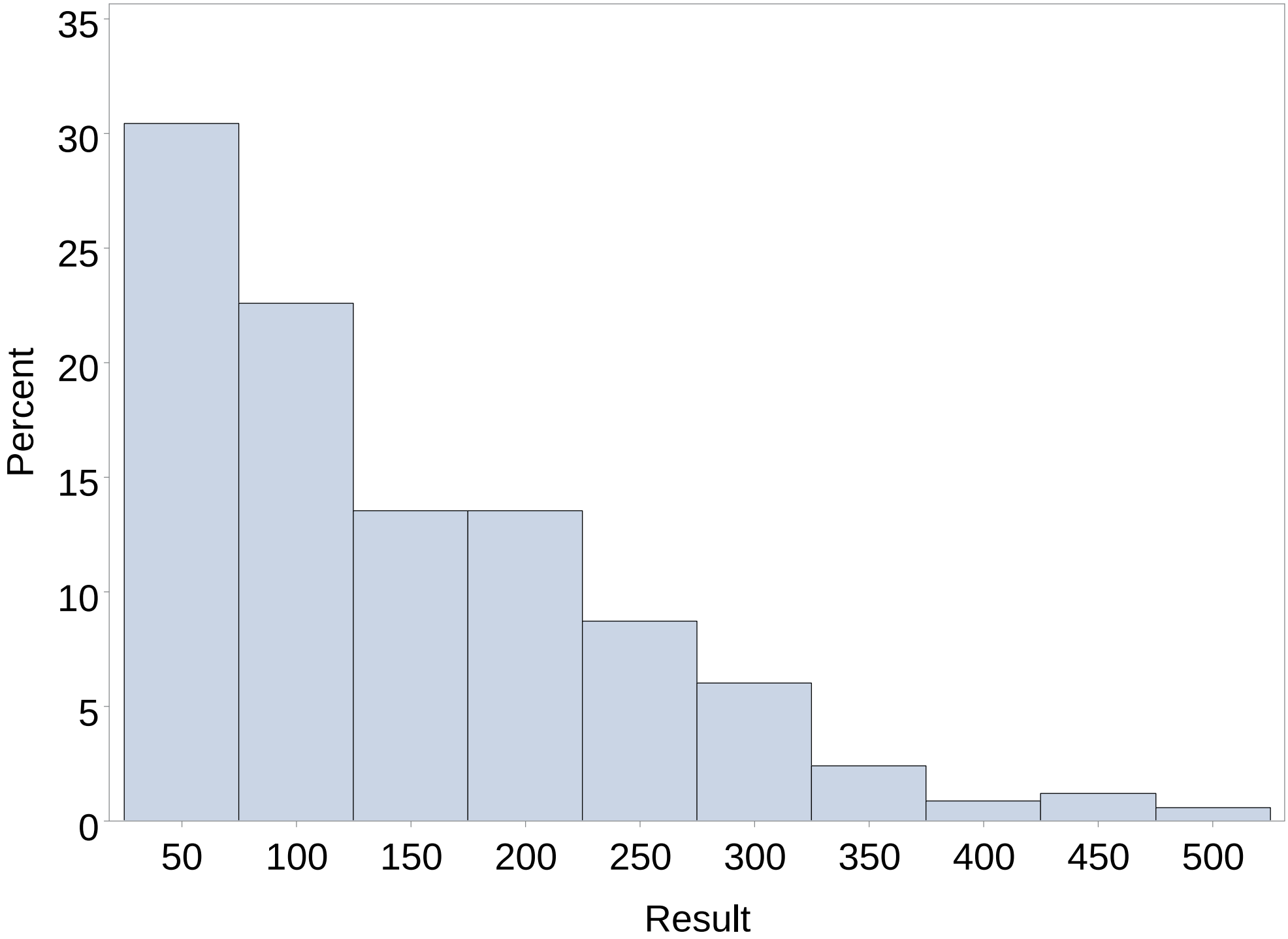
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.2005	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500.0
99%	450.0
95%	330.0
90%	280.0
75% Q3	200.0
50% Median	120.0
25% Q1	67.5
10%	45.0
5%	42.0
1%	35.0
0% Min	25.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
25	7299	450	7413
35	7504	450	7460
35	7443	460	7376
35	7432	500	7398
35	7322	500	7547


Parameter=Color (CPU) STATION=8
Percent
35
30
25
20
15
10
5
0
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=9

Moments			
N	332	**Sum Weights**	332
Mean	132.313253	**Sum Observations**	43928
Std Deviation	89.9876363	**Variance**	8097.77469
Skewness	1.07650463	**Kurtosis**	0.68698885
Uncorrected SS	8492620	**Corrected SS**	2680363.42
Coeff Variation	68.0110528	**Std Error Mean**	4.93871315

Basic Statistical Measures			
Location		**Variability**	
Mean	132.3133	**Std Deviation**	89.98764
Median	100.0000	**Variance**	8098
Mode	100.0000	**Range**	480.00000
		Interquartile Range	135.00000

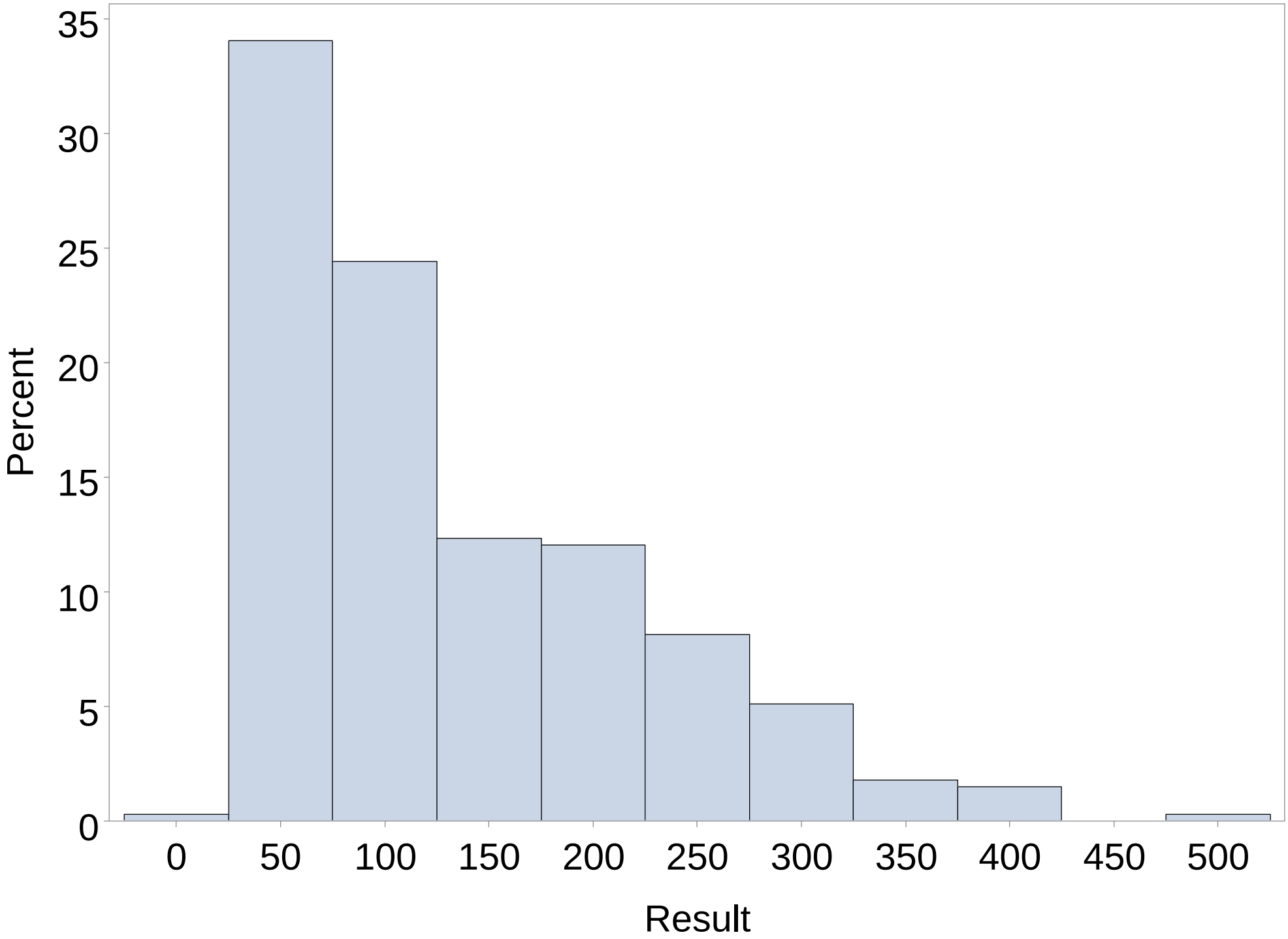
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.79104	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	500
99%	400
95%	300
90%	250
75% Q3	195
50% Median	100
25% Q1	60
10%	40
5%	38
1%	30
0% Min	20

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Color (CPU) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
20	7631	380	7686
25	7764	400	7730
28	7654	400	7897
30	7894	400	7907
30	7836	500	7879


Parameter=Color (CPU) STATION=9
Percent
35
30
25
20
15
10
5
0
0
50
100
150
200
250
300
350
400
450
500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	726.585075	**Sum Observations**	243406
Std Deviation	576.173651	**Variance**	331976.076
Skewness	9.2725965	**Kurtosis**	112.745032
Uncorrected SS	287735176	**Corrected SS**	110880009
Coeff Variation	79.2988558	**Std Error Mean**	31.4797294

Basic Statistical Measures			
Location		**Variability**	
Mean	726.5851	**Std Deviation**	576.17365
Median	676.0000	**Variance**	331976
Mode	856.0000	**Range**	8373
		Interquartile Range	337.00000

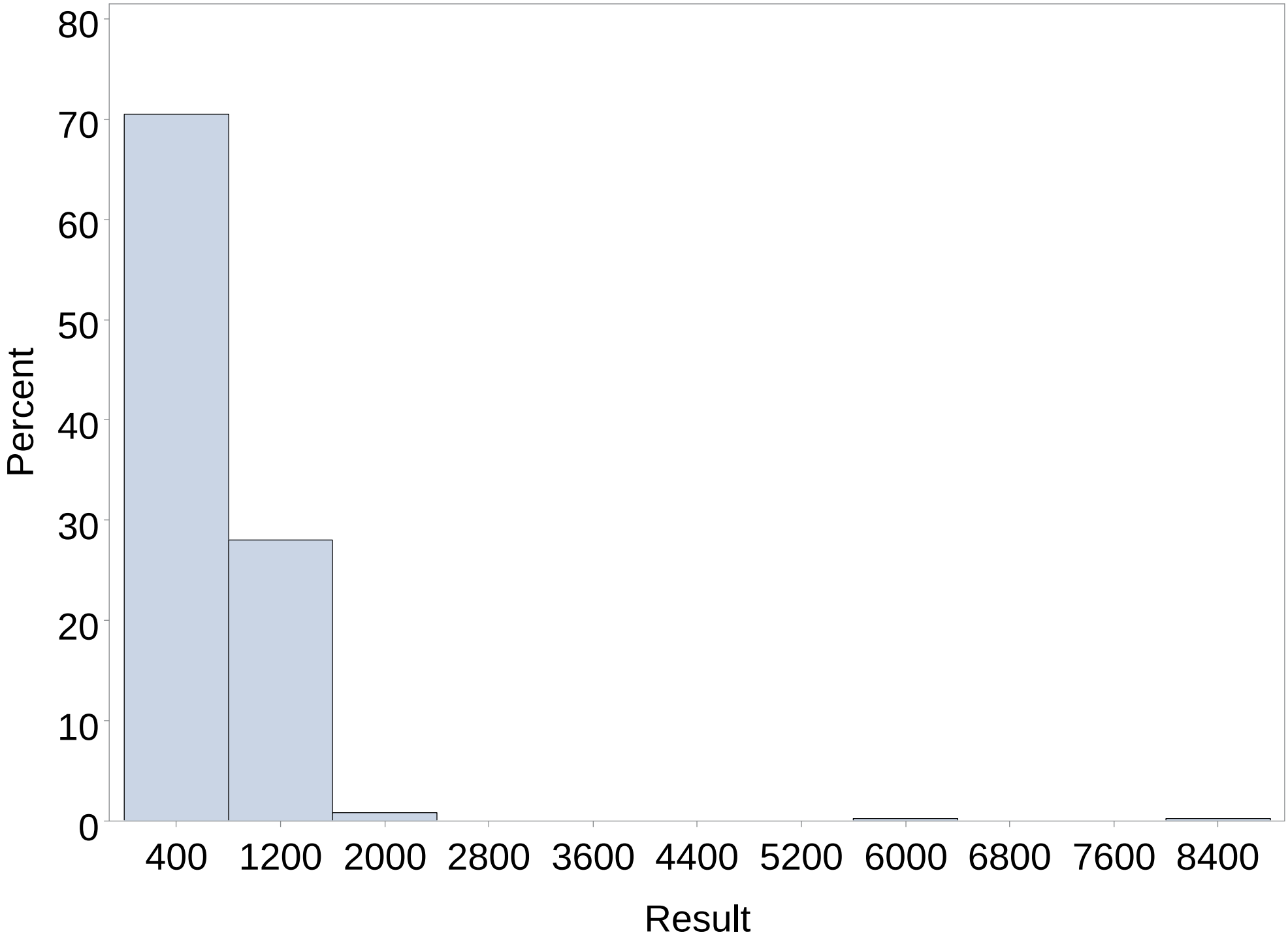
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.08105	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8440
99%	1720
95%	1264
90%	1005
75% Q3	841
50% Median	676
25% Q1	504
10%	343
5%	289
1%	211
0% Min	67

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
67	8186	1600	8003
173	7969	1720	8048
180	8233	1979	8035
211	8209	5750	8006
213	8041	8440	7953


Parameter=Bottom Conductivity (us/cm) STATION=1
Percent
80
70
60
50
40
30
20
10
0
400
1200
2000
2800
3600
4400
5200
6000
6800
7600
8400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	924.411411	**Sum Observations**	307829
Std Deviation	393.827253	**Variance**	155099.906
Skewness	1.73828315	**Kurtosis**	11.9455675
Uncorrected SS	336053809	**Corrected SS**	51493168.6
Coeff Variation	42.6030281	**Std Error Mean**	21.5816005

Basic Statistical Measures			
Location		**Variability**	
Mean	924.4114	**Std Deviation**	393.82725
Median	929.0000	**Variance**	155100
Mode	838.0000	**Range**	4053
		Interquartile Range	475.00000

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

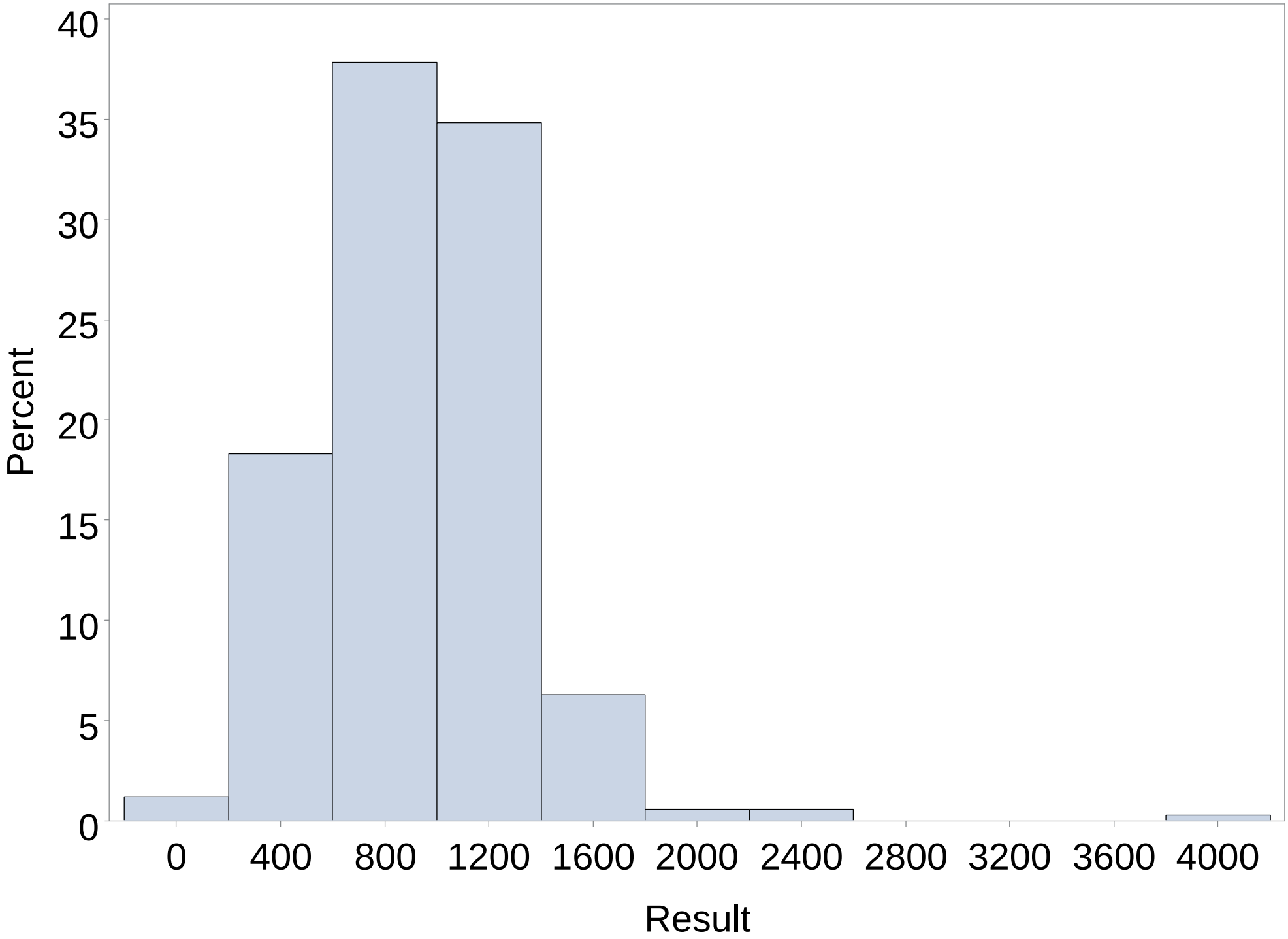
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.83331	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4060
99%	1900
95%	1490
90%	1342
75% Q3	1142
50% Median	929
25% Q1	667
10%	451
5%	335
1%	172
0% Min	7

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7	8563	1860	8381
69	8519	1900	8382
88	8569	2214	8338
172	8375	2496	8336
250	8553	4060	8341


Parameter=Bottom Conductivity (us/cm) STATION=2
Percent
0
5
10
15
20
25
30
35
40
0
400
800
1200
1600
2000
2400
2800
3200
3600
4000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	772.933934	**Sum Observations**	257387
Std Deviation	580.666512	**Variance**	337173.598
Skewness	9.41754659	**Kurtosis**	117.800528
Uncorrected SS	310884781	**Corrected SS**	111941635
Coeff Variation	75.1249863	**Std Error Mean**	31.8203288

Basic Statistical Measures			
Location		**Variability**	
Mean	772.9339	**Std Deviation**	580.66651
Median	726.0000	**Variance**	337174
Mode	466.0000	**Range**	8656
		Interquartile Range	366.00000

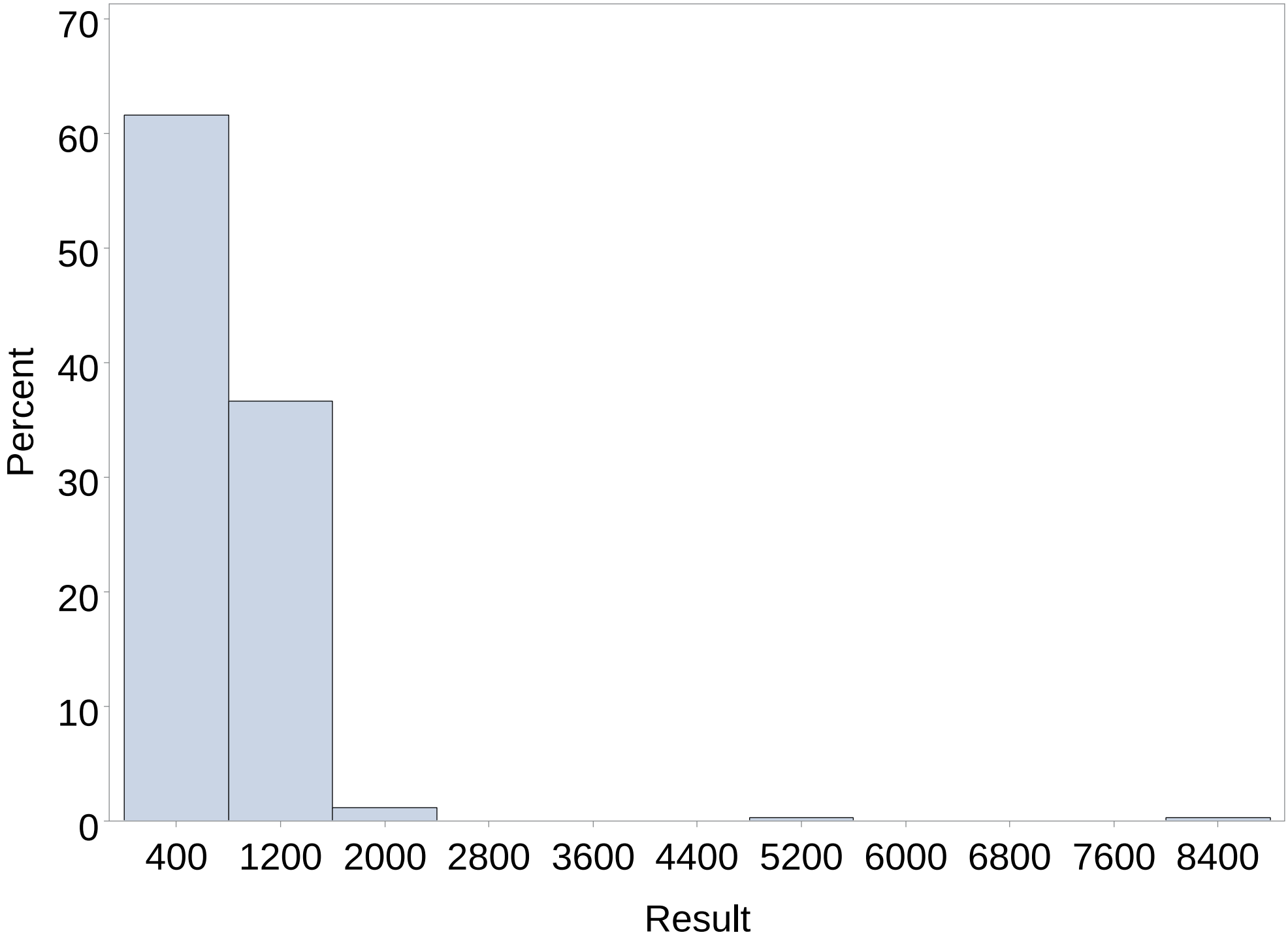
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.29057	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8710
99%	1650
95%	1261
90%	1071
75% Q3	898
50% Median	726
25% Q1	532
10%	383
5%	322
1%	244
0% Min	54

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	8852	1622	8703
224	8637	1650	8715
233	8899	2000	8708
244	8754	5506	8839
260	8875	8710	8621


Parameter=Bottom Conductivity (us/cm) STATION=3
70
60
50
40
30
20
10
0
Percent
400
1200
2000
2800
3600
4400
5200
6000
6800
7600
8400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=4

Moments			
N	334	**Sum Weights**	334
Mean	4366.84132	**Sum Observations**	1458525
Std Deviation	6587.18158	**Variance**	43390961.2
Skewness	1.75849136	**Kurtosis**	2.14199021
Uncorrected SS	2.08183E10	**Corrected SS**	1.44492E10
Coeff Variation	150.845453	**Std Error Mean**	360.43454

Basic Statistical Measures			
Location		**Variability**	
Mean	4366.841	**Std Deviation**	6587
Median	804.500	**Variance**	43390961
Mode	490.000	**Range**	31564
		Interquartile Range	4953

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

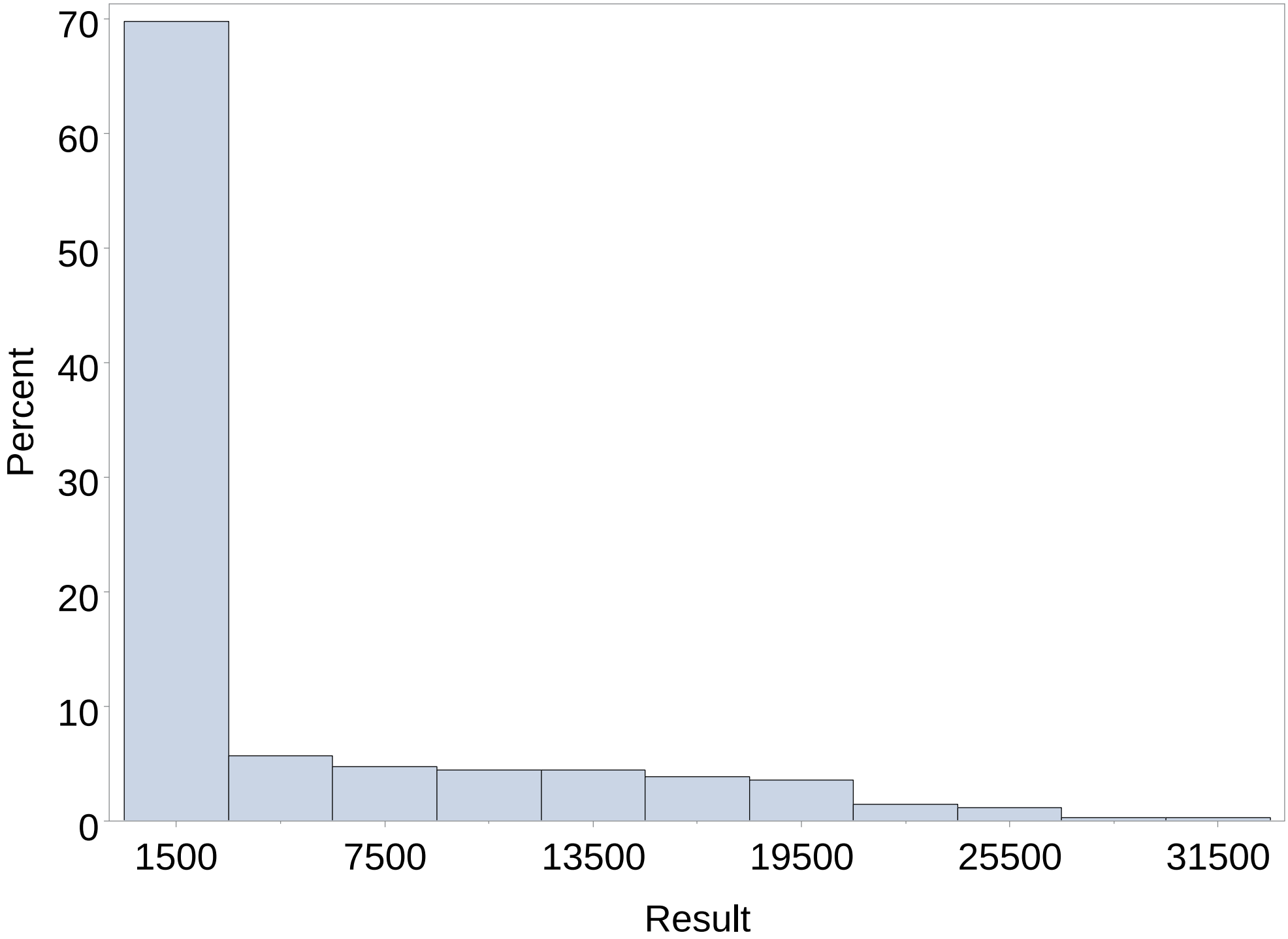
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.11549	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31623.0
99%	25585.0
95%	19639.0
90%	15600.0
75% Q3	5480.0
50% Median	804.5
25% Q1	527.0
10%	362.0
5%	310.0
1%	198.0
0% Min	59.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
59	9186	24831	9229
183	9233	25585	9169
195	9042	25750	9026
198	9209	27130	9027
206	8970	31623	9133


Parameter=Bottom Conductivity (us/cm) STATION=4
Percent
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	4751.78209	**Sum Observations**	1591847
Std Deviation	6848.70864	**Variance**	46904810
Skewness	1.79690075	**Kurtosis**	2.49719792
Uncorrected SS	2.32303E10	**Corrected SS**	1.56662E10
Coeff Variation	144.129266	**Std Error Mean**	374.184925

Basic Statistical Measures			
Location		**Variability**	
Mean	4751.782	**Std Deviation**	6849
Median	1008.000	**Variance**	46904810
Mode	369.000	**Range**	33221
		Interquartile Range	6310

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

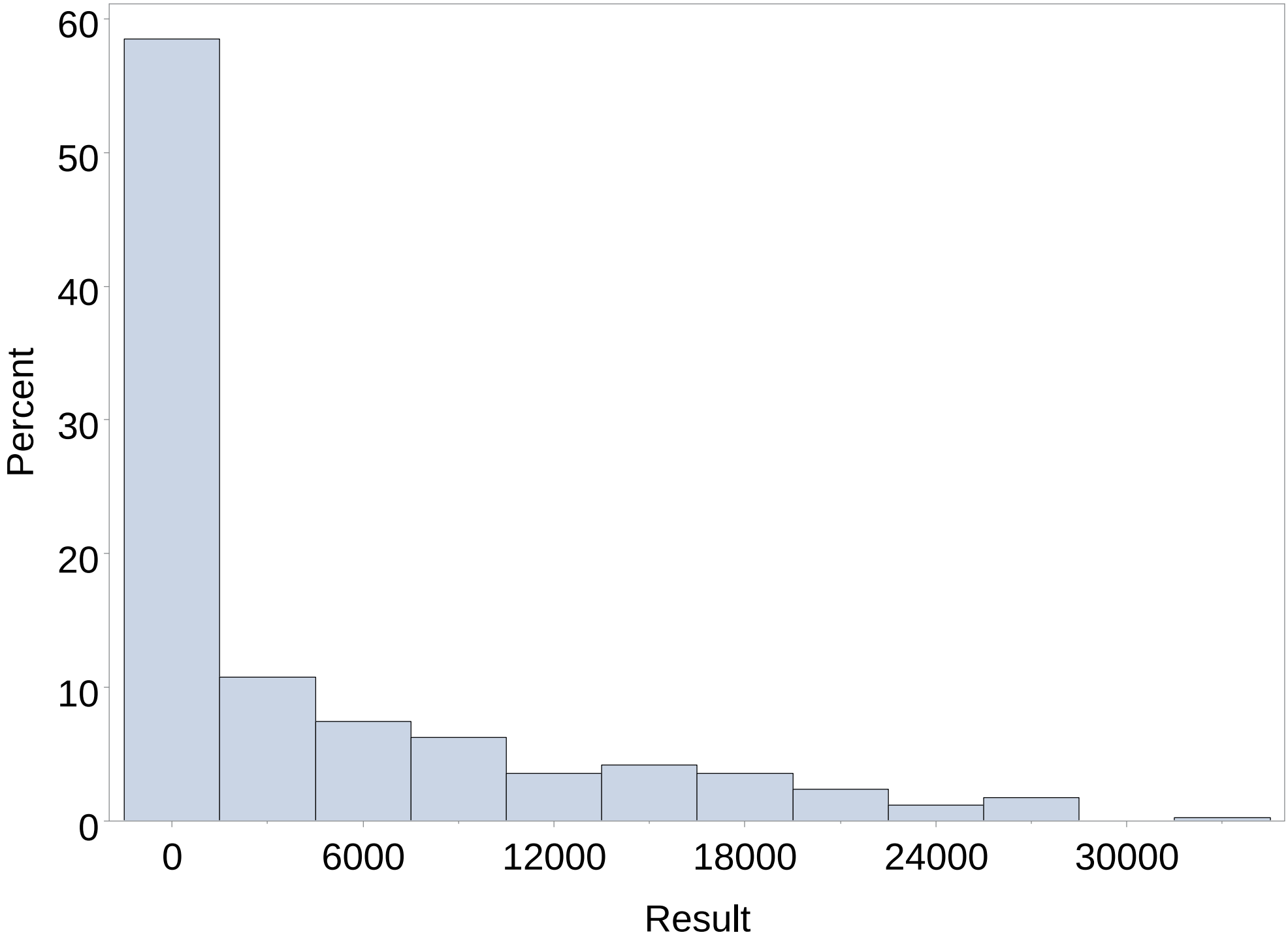
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.69902	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33273
99%	27195
95%	20456
90%	15780
75% Q3	6841
50% Median	1008
25% Q1	531
10%	366
5%	307
1%	198
0% Min	52

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
52	9521	27060	9361
169	9377	27195	9564
188	9305	27909	9504
198	9568	28250	9457
200	9544	33273	9468


Parameter=Bottom Conductivity (us/cm) STATION=5
Percent
60
50
40
30
20
10
0
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=6

Moments			
N	332	**Sum Weights**	332
Mean	6677.0241	**Sum Observations**	2216772
Std Deviation	8447.81114	**Variance**	71365513
Skewness	1.41301327	**Kurtosis**	1.14386051
Uncorrected SS	3.84234E10	**Corrected SS**	2.3622E10
Coeff Variation	126.520603	**Std Error Mean**	463.633869

Basic Statistical Measures			
Location		**Variability**	
Mean	6677.024	**Std Deviation**	8448
Median	1958.000	**Variance**	71365513
Mode	244.000	**Range**	36625
		Interquartile Range	10584

Note: The mode displayed is the smallest of 14 modes with a count of 2.

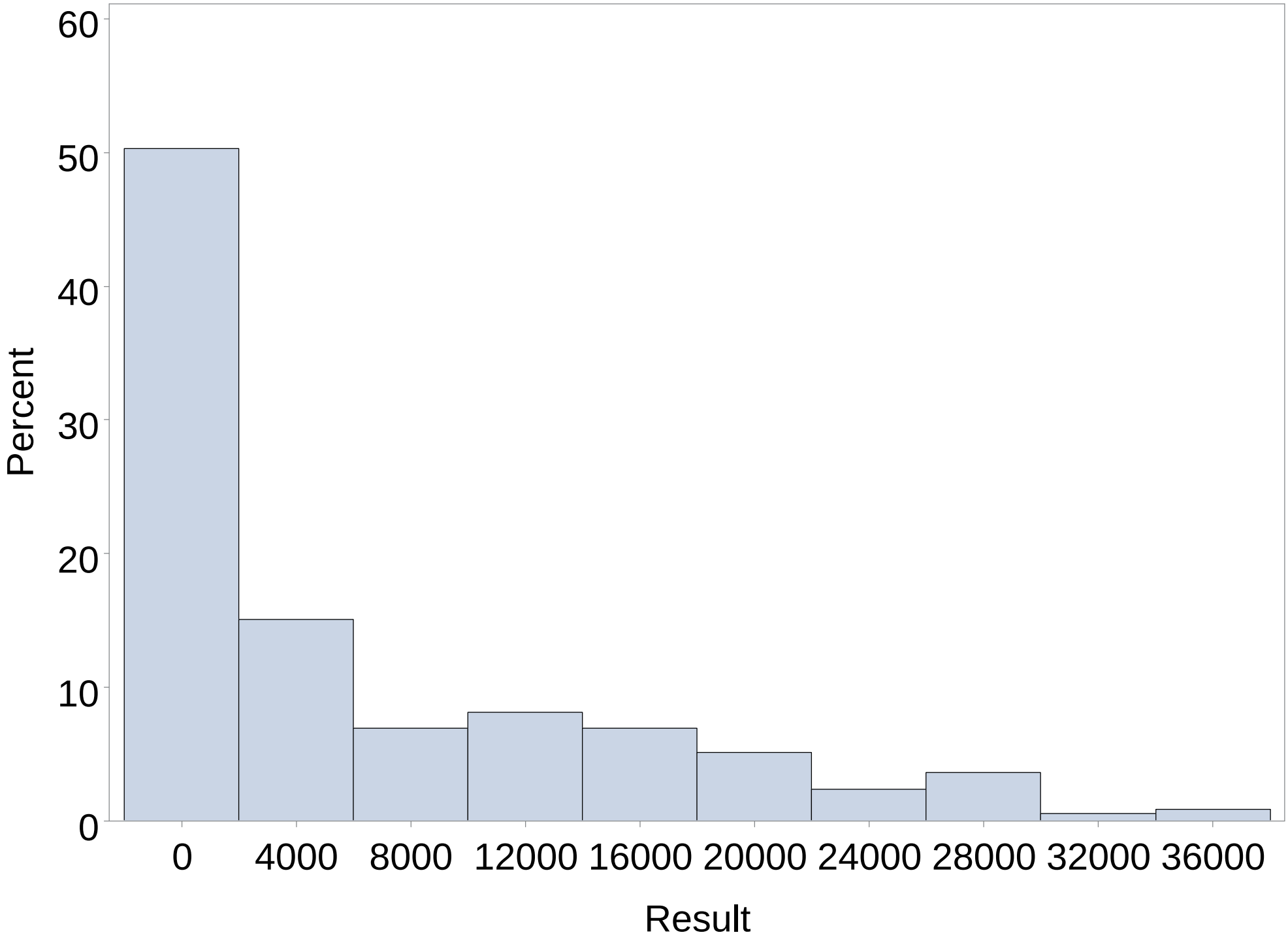
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.4015	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36635.0
99%	32271.0
95%	26230.0
90%	19050.0
75% Q3	11154.5
50% Median	1958.0
25% Q1	570.5
10%	362.0
5%	313.0
1%	195.0
0% Min	10.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	9897	32000	9778
54	9853	32271	9836
190	9639	34828	9790
195	9711	35290	9789
201	9876	36635	9801


Parameter=Bottom Conductivity (us/cm) STATION=6
Percent
60
50
40
30
20
10
0
0
4000
8000
12000
16000
20000
24000
28000
32000
36000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=7

Moments			
N	331	**Sum Weights**	331
Mean	10511.1541	**Sum Observations**	3479192
Std Deviation	10352.4943	**Variance**	107174138
Skewness	0.86241255	**Kurtosis**	-0.1698979
Uncorrected SS	7.19378E10	**Corrected SS**	3.53675E10
Coeff Variation	98.4905578	**Std Error Mean**	569.024548

Basic Statistical Measures			
Location		**Variability**	
Mean	10511.15	**Std Deviation**	10352
Median	7899.00	**Variance**	107174138
Mode	379.00	**Range**	42990
		Interquartile Range	16912

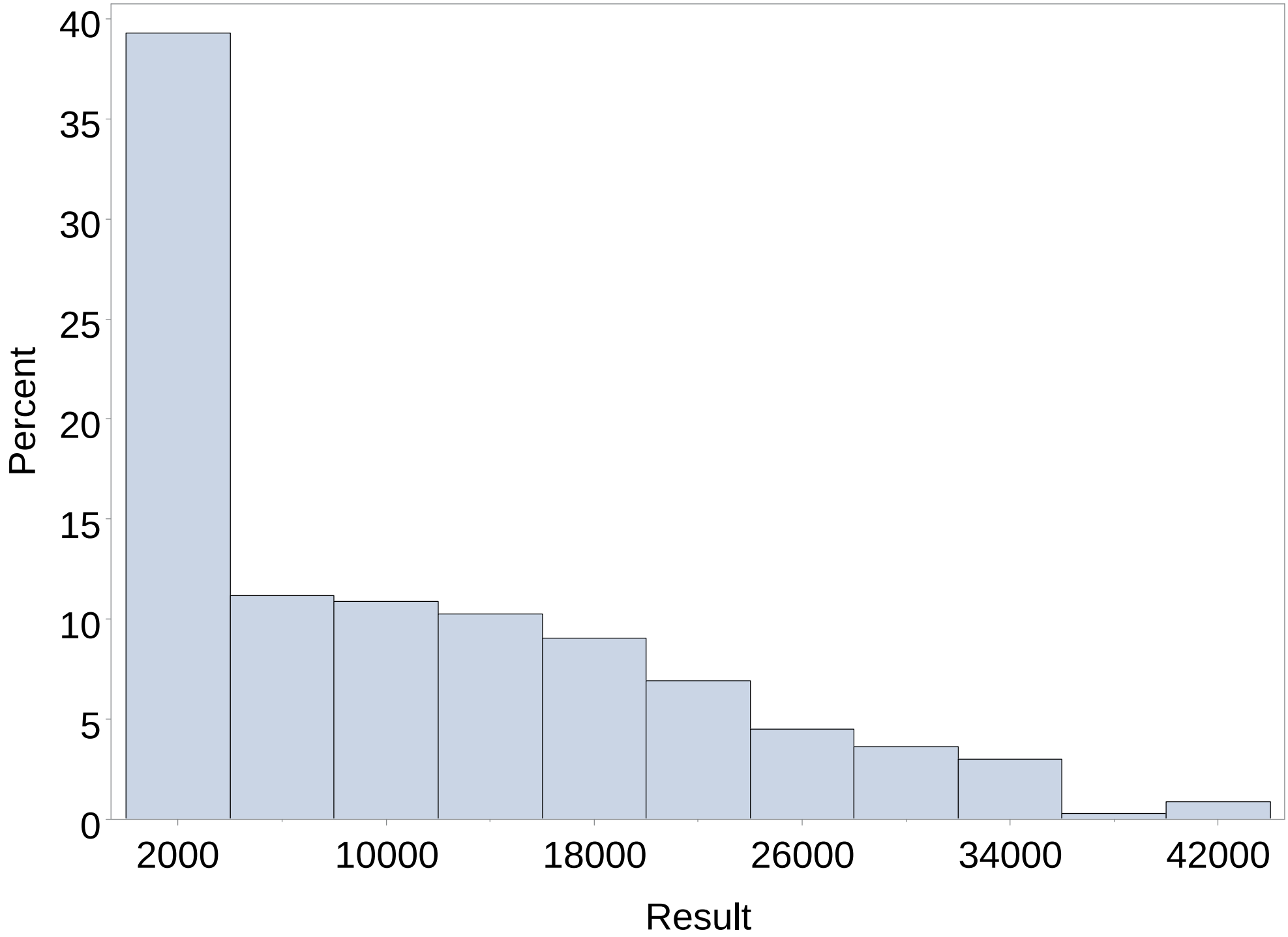
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.47223	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	43044
99%	37649
95%	31030
90%	26200
75% Q3	17619
50% Median	7899
25% Q1	707
10%	379
5%	271
1%	200
0% Min	54

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	10184	35900	9928
148	10043	37649	10110
191	9971	40382	10133
200	10207	41060	10122
204	10231	43044	10121


Parameter=Bottom Conductivity (us/cm) STATION=7
Percent
0
5
10
15
20
25
30
35
40
2000
10000
18000
26000
34000
42000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	12583.988	**Sum Observations**	4190468
Std Deviation	11450.6577	**Variance**	131117562
Skewness	0.62190483	**Kurtosis**	-0.656948
Uncorrected SS	9.62638E10	**Corrected SS**	4.3531E10
Coeff Variation	90.9938703	**Std Error Mean**	627.492177

Basic Statistical Measures			
Location		**Variability**	
Mean	12583.99	**Std Deviation**	11451
Median	9937.00	**Variance**	131117562
Mode	275.00	**Range**	47047
		Interquartile Range	20057

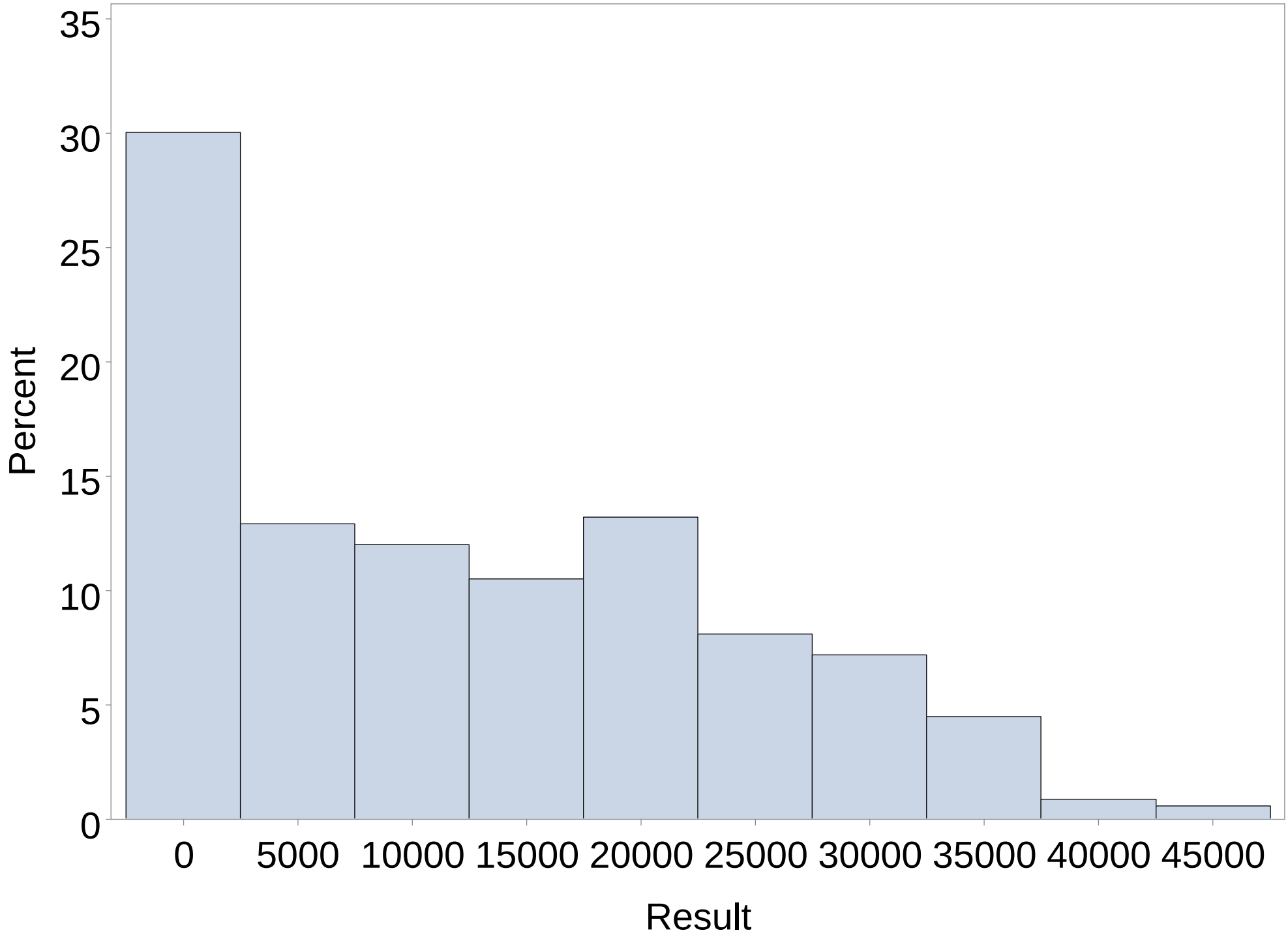
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.05441	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	47120
99%	41139
95%	33095
90%	29742
75% Q3	21144
50% Median	9937
25% Q1	1087
10%	275
5%	216
1%	152
0% Min	73

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
73	10517	38700	10259
117	10410	41139	10441
140	10409	41918	10464
152	10302	43718	10453
153	10374	47120	10452


Parameter=Bottom Conductivity (us/cm) STATION=8
Percent
35
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	18173.1772	**Sum Observations**	6051668
Std Deviation	12383.7225	**Variance**	153356582
Skewness	0.01825431	**Kurtosis**	-0.9348998
Uncorrected SS	1.60892E11	**Corrected SS**	5.09144E10
Coeff Variation	68.1428587	**Std Error Mean**	678.62381

Basic Statistical Measures			
Location		**Variability**	
Mean	18173.18	**Std Deviation**	12384
Median	19877.00	**Variance**	153356582
Mode	30100.00	**Range**	53165
		Interquartile Range	21346

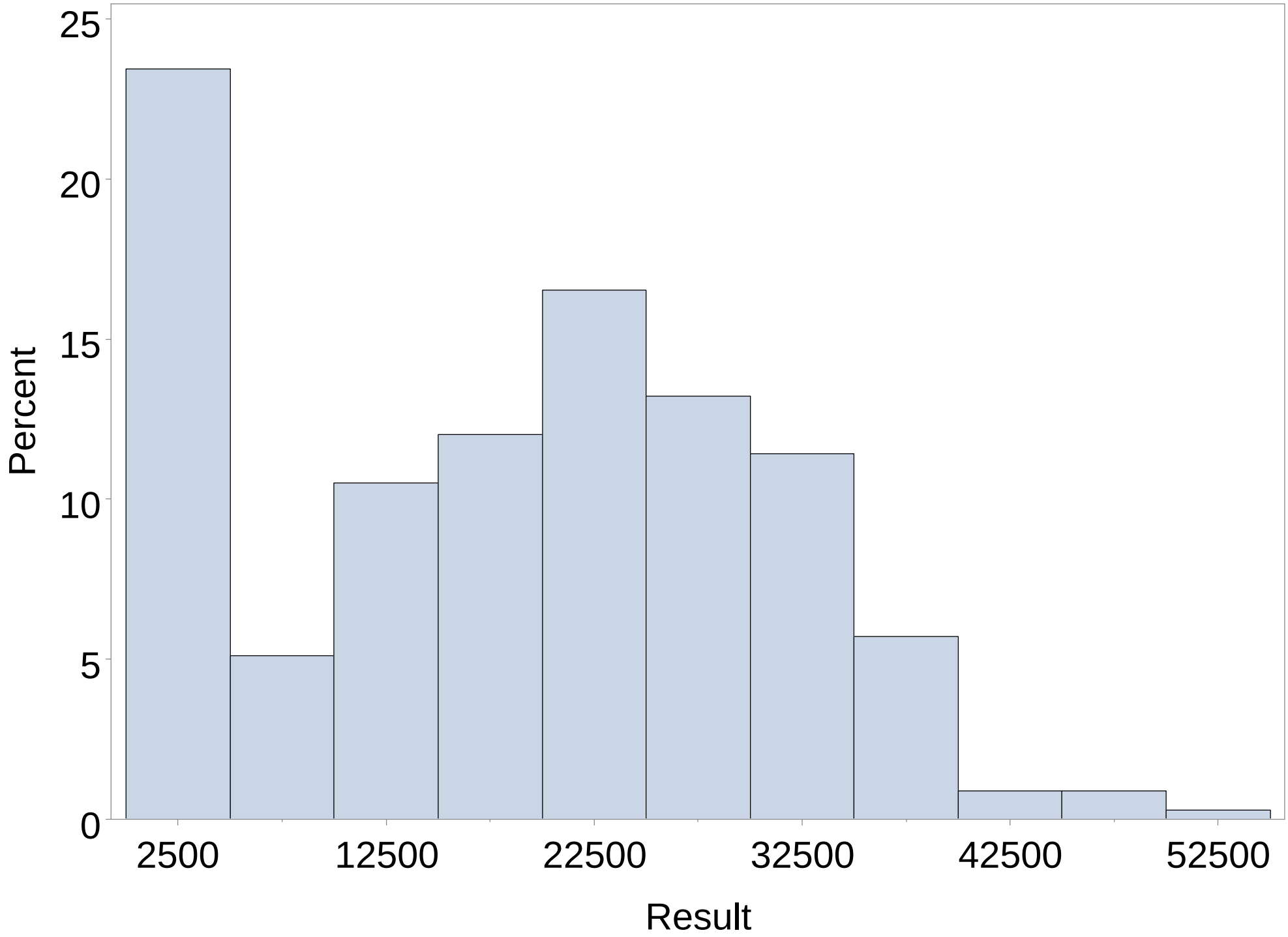
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.77946	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	53228
99%	45000
95%	36478
90%	33769
75% Q3	27864
50% Median	19877
25% Q1	6518
10%	406
5%	278
1%	160
0% Min	63

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
63	10850	44626	10797
144	10707	45000	10592
158	10897	45850	10774
160	10743	47026	10786
183	10742	53228	10785


Parameter=Bottom Conductivity (us/cm) STATION=9
25
20
15
10
5
0
Percent
2500
12500
22500
32500
42500
52500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=10

Moments			
N	334	**Sum Weights**	334
Mean	3212.7994	**Sum Observations**	1073075
Std Deviation	5444.91026	**Variance**	29647047.7
Skewness	2.29179003	**Kurtosis**	4.73306918
Uncorrected SS	1.332E10	**Corrected SS**	9872466882
Coeff Variation	169.475575	**Std Error Mean**	297.932234

Basic Statistical Measures			
Location		**Variability**	
Mean	3212.799	**Std Deviation**	5445
Median	734.000	**Variance**	29647048
Mode	368.000	**Range**	28838
		Interquartile Range	1485

Note: The mode displayed is the smallest of 5 modes with a count of 3.

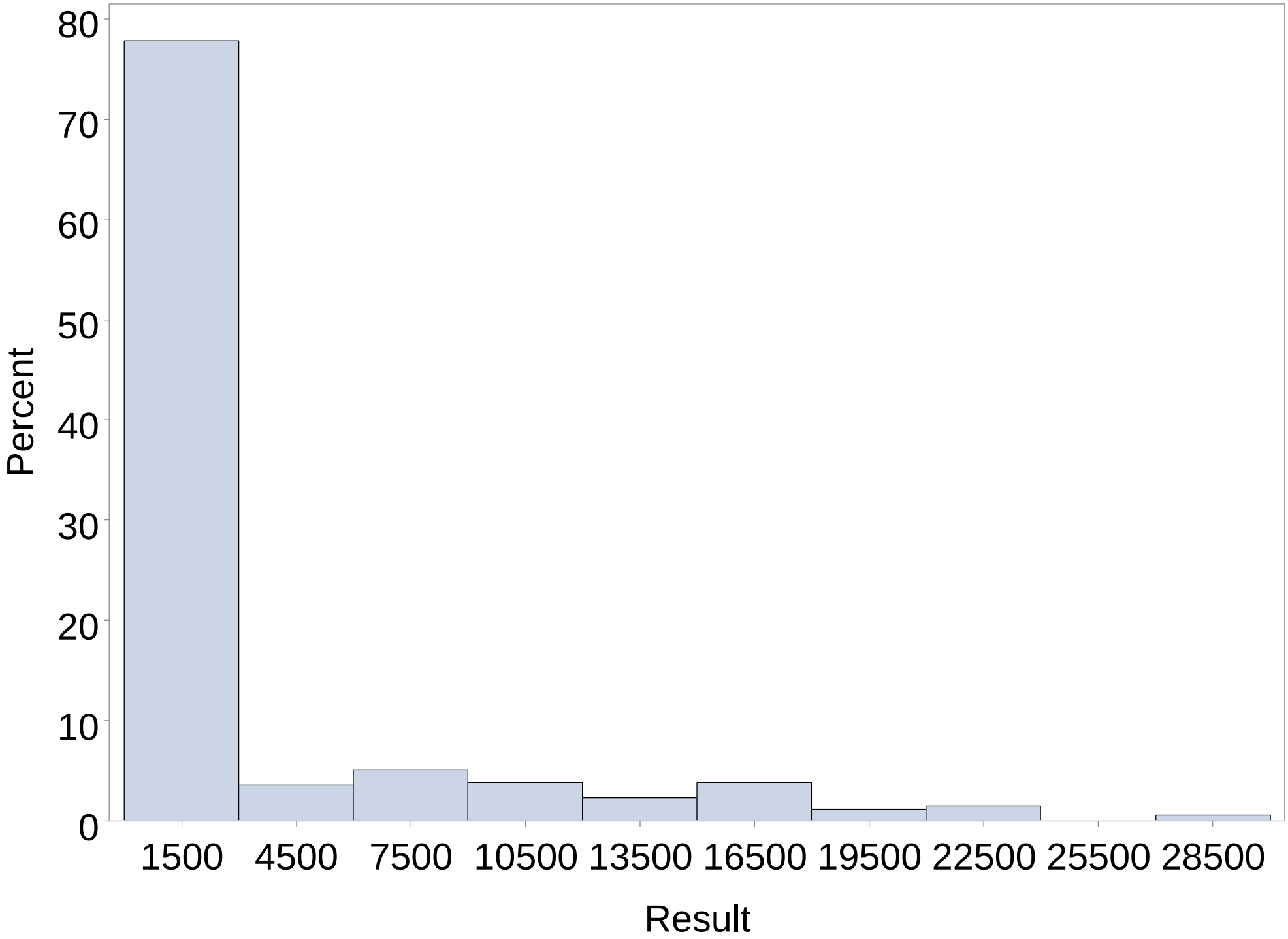
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.78366	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28899
99%	22740
95%	16981
90%	11420
75% Q3	1990
50% Median	734
25% Q1	505
10%	368
5%	299
1%	203
0% Min	61

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
61	11185	22231	11121
178	10969	22740	11025
188	11231	23567	11227
203	11041	27030	11026
215	11208	28899	11132


Parameter=Bottom Conductivity (us/cm) STATION=10
Percent
80
70
60
50
40
30
20
10
0
1500
4500
7500
10500
13500
16500
19500
22500
25500
28500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	3611.34036	**Sum Observations**	1198965
Std Deviation	5975.95234	**Variance**	35712006.3
Skewness	2.08936242	**Kurtosis**	3.58619619
Uncorrected SS	1.61505E10	**Corrected SS**	1.18207E10
Coeff Variation	165.477406	**Std Error Mean**	327.972993

Basic Statistical Measures			
Location		**Variability**	
Mean	3611.340	**Std Deviation**	5976
Median	746.000	**Variance**	35712006
Mode	393.000	**Range**	30729
		Interquartile Range	2183

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

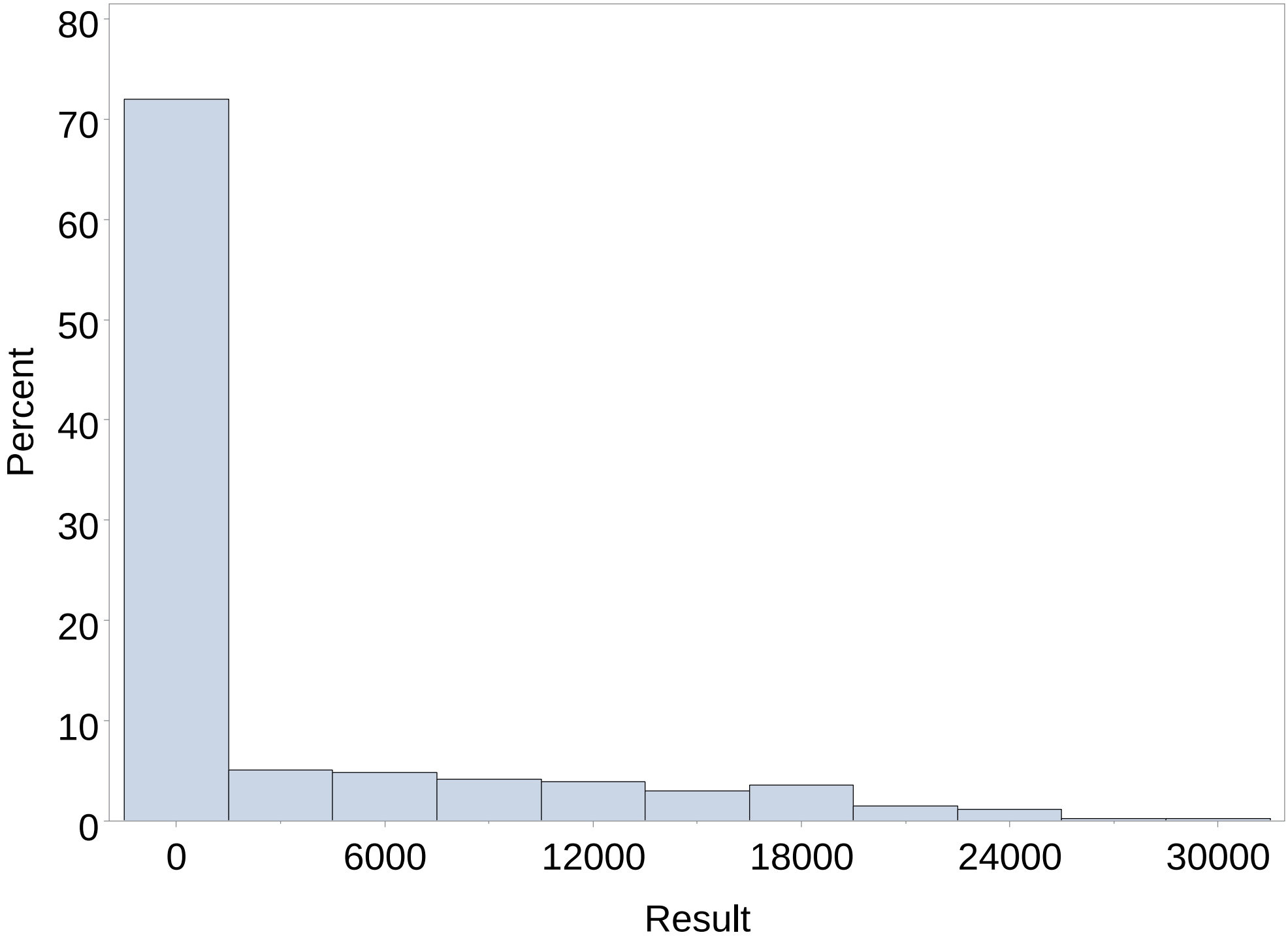
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.01109	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30737.0
99%	23735.0
95%	18600.0
90%	13310.0
75% Q3	2699.5
50% Median	746.0
25% Q1	516.5
10%	377.0
5%	313.0
1%	217.0
0% Min	8.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8	11547	23275	11453
58	11516	23735	11499
183	11373	24099	11559
217	11563	27010	11358
222	11302	30737	11463


Parameter=Bottom Conductivity (us/cm) STATION=11
Percent
80
70
60
50
40
30
20
10
0
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=12

Moments			
N	333	**Sum Weights**	333
Mean	4709.32432	**Sum Observations**	1568205
Std Deviation	6771.79393	**Variance**	45857193.1
Skewness	1.6686294	**Kurtosis**	1.83152278
Uncorrected SS	2.26098E10	**Corrected SS**	1.52246E10
Coeff Variation	143.795446	**Std Error Mean**	371.092022

Basic Statistical Measures			
Location		**Variability**	
Mean	4709.324	**Std Deviation**	6772
Median	948.000	**Variance**	45857193
Mode	280.000	**Range**	31010
		Interquartile Range	6235

Note: The mode displayed is the smallest of 27 modes with a count of 2.

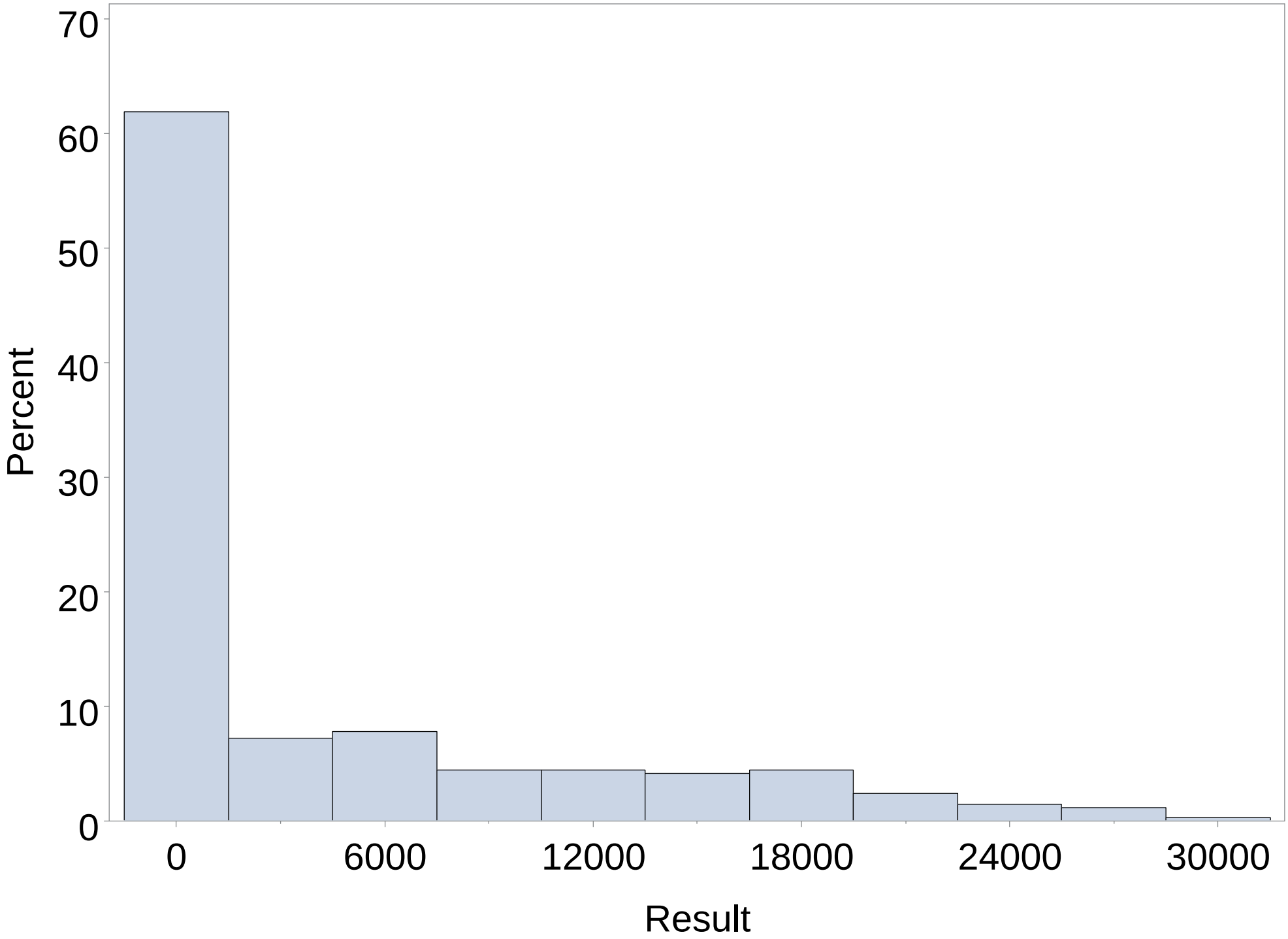
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.69045	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31067
99%	26325
95%	19883
90%	15991
75% Q3	6760
50% Median	948
25% Q1	525
10%	365
5%	300
1%	201
0% Min	57

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
57	11849	26165	11832
177	11706	26325	11786
185	11634	27030	11690
201	11896	27050	11691
213	11872	31067	11796


Parameter=Bottom Conductivity (us/cm) STATION=12
Percent
70
60
50
40
30
20
10
0
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	4700.42515	**Sum Observations**	1569942
Std Deviation	6806.68667	**Variance**	46330983.4
Skewness	1.72782102	**Kurtosis**	2.08788553
Uncorrected SS	2.28076E10	**Corrected SS**	1.54282E10
Coeff Variation	144.810021	**Std Error Mean**	372.445324

Basic Statistical Measures			
Location		**Variability**	
Mean	4700.425	**Std Deviation**	6807
Median	922.000	**Variance**	46330983
Mode	263.000	**Range**	32104
		Interquartile Range	6716

Note: The mode displayed is the smallest of 21 modes with a count of 2.

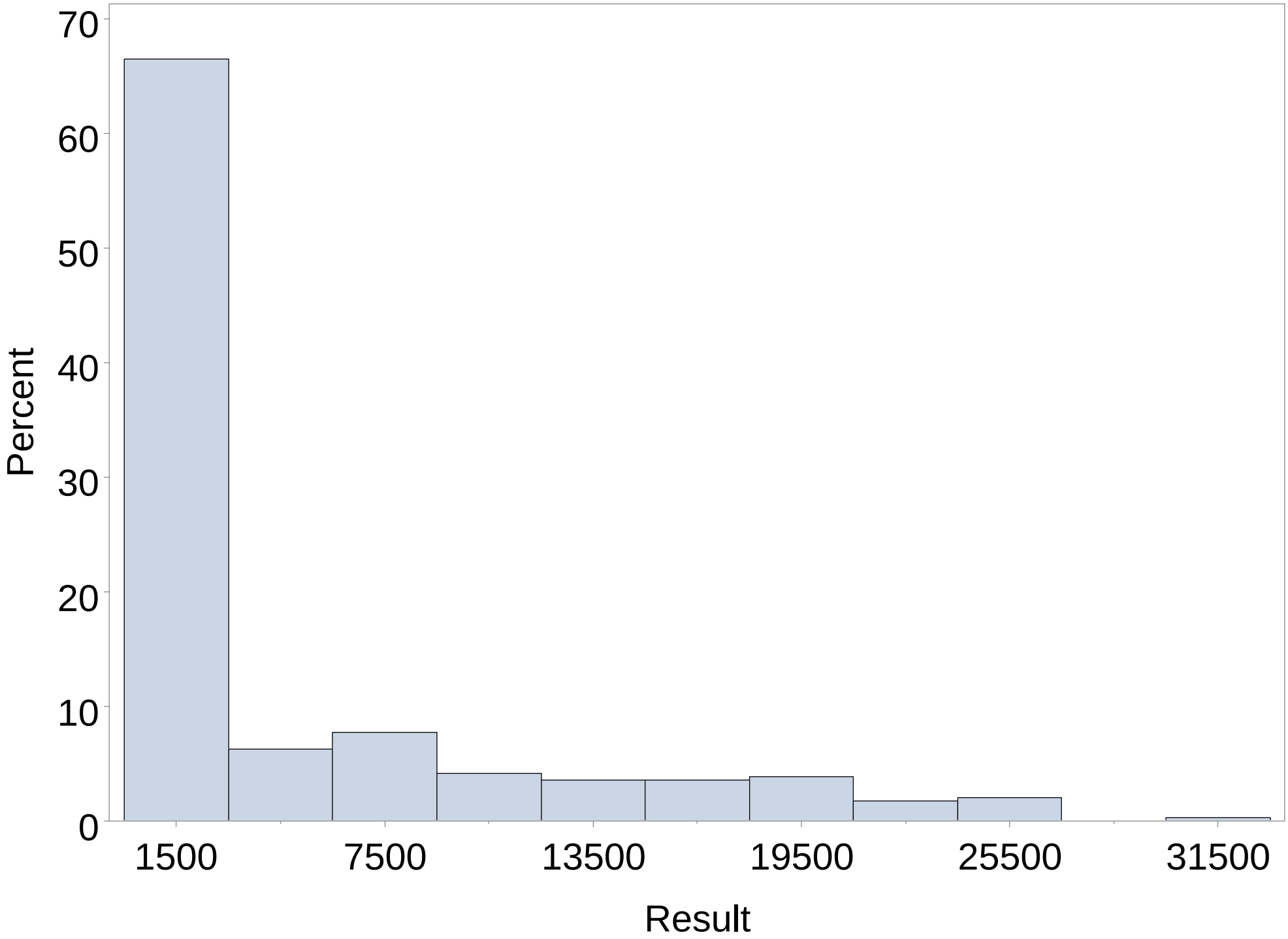
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.62044	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32157
99%	26640
95%	20485
90%	15811
75% Q3	7236
50% Median	922
25% Q1	520
10%	365
5%	310
1%	197
0% Min	53

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
53	12183	26273	12119
167	12039	26640	12024
189	11967	26689	12226
197	12230	26882	12166
203	12206	32157	12130


Parameter=Bottom Conductivity (us/cm) STATION=13
Percent
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	5218.24324	**Sum Observations**	1737675
Std Deviation	7217.59772	**Variance**	52093716.8
Skewness	1.70461378	**Kurtosis**	2.16739768
Uncorrected SS	2.63627E10	**Corrected SS**	1.72951E10
Coeff Variation	138.314704	**Std Error Mean**	395.521919

Basic Statistical Measures			
Location		**Variability**	
Mean	5218.243	**Std Deviation**	7218
Median	1211.000	**Variance**	52093717
Mode	480.000	**Range**	34200
		Interquartile Range	7305

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

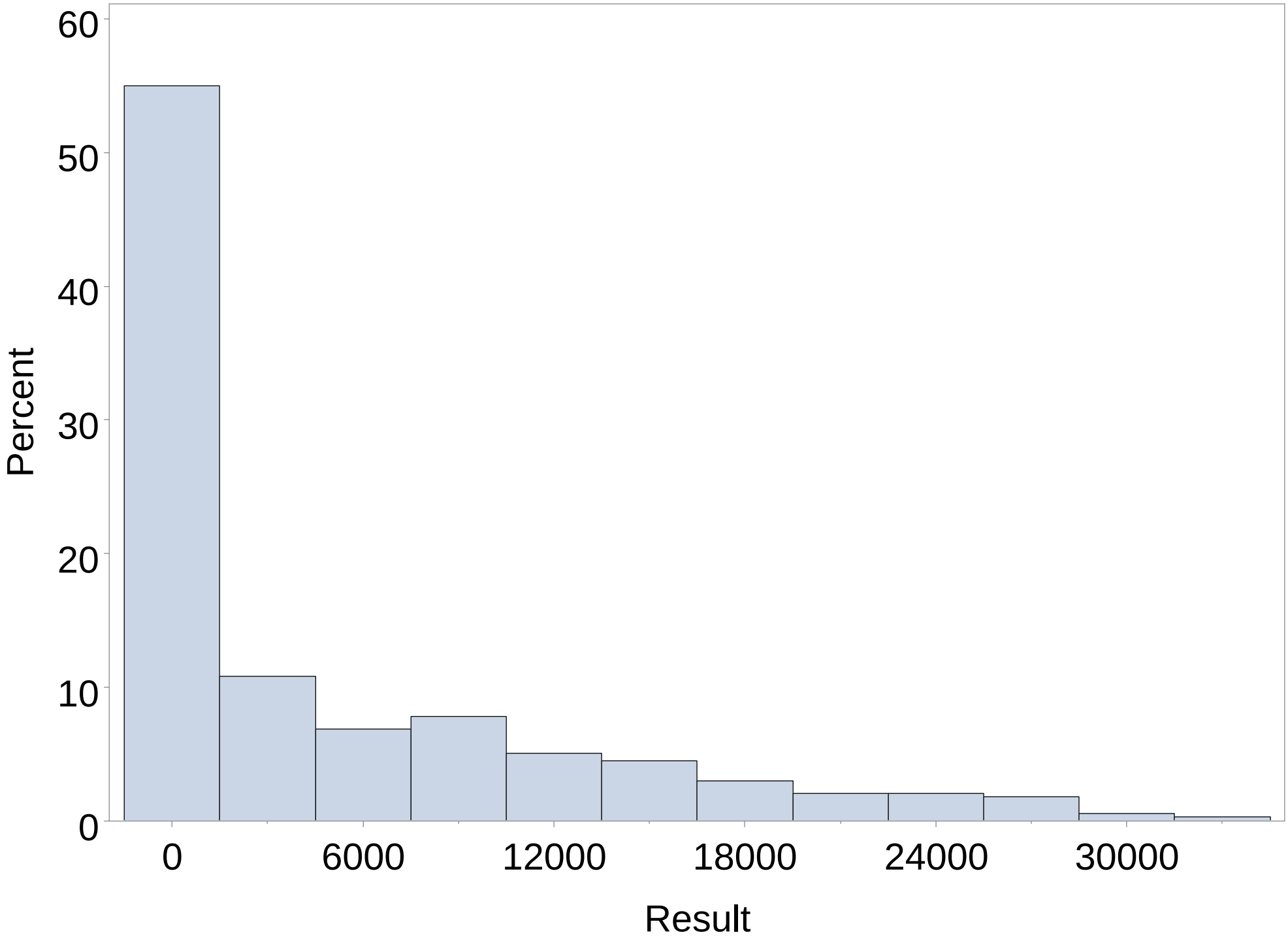
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.19331	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34210
99%	27814
95%	22260
90%	16450
75% Q3	7840
50% Median	1211
25% Q1	535
10%	359
5%	304
1%	190
0% Min	10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10	12536	27720	12357
53	12516	27814	12451
170	12373	28784	12499
190	12301	30009	12452
199	12539	34210	12463


Parameter=Bottom Conductivity (us/cm) STATION=14
Percent
60
50
40
30
20
10
0
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=15

Moments			
N	332	**Sum Weights**	332
Mean	8348.49398	**Sum Observations**	2771700
Std Deviation	9368.55832	**Variance**	87769885.1
Skewness	1.09302914	**Kurtosis**	0.21482079
Uncorrected SS	5.21914E10	**Corrected SS**	2.90518E10
Coeff Variation	112.218543	**Std Error Mean**	514.166436

Basic Statistical Measures			
Location		**Variability**	
Mean	8348.494	**Std Deviation**	9369
Median	4220.000	**Variance**	87769885
Mode	253.000	**Range**	38351
		Interquartile Range	14343

Note: The mode displayed is the smallest of 11 modes with a count of 2.

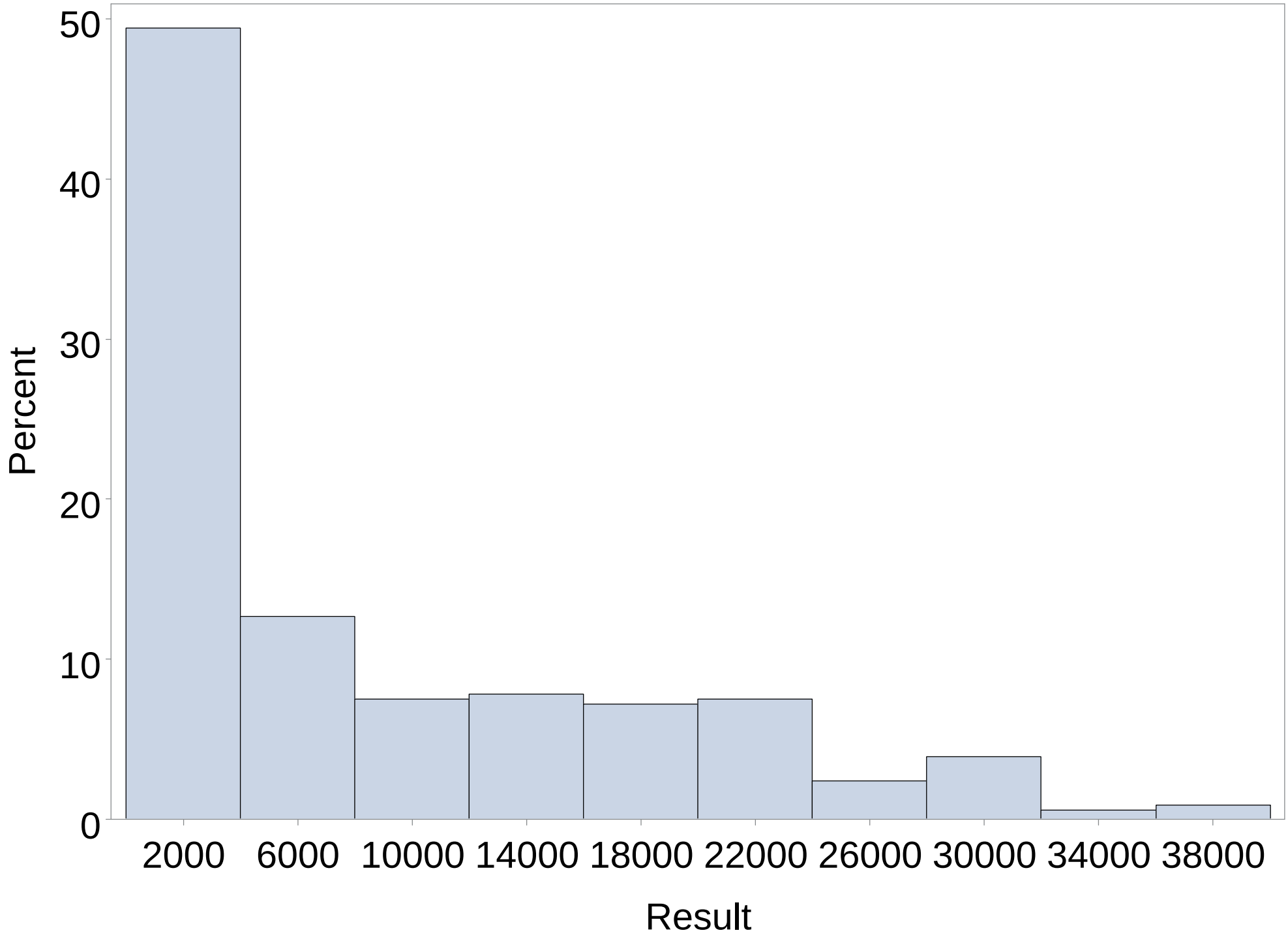
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.23695	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	38405.0
99%	33821.0
95%	28578.0
90%	22042.0
75% Q3	15000.5
50% Median	4220.0
25% Q1	657.5
10%	378.0
5%	310.0
1%	201.0
0% Min	54.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	12848	33775	12772
161	12705	33821	12831
191	12634	36941	12784
201	12871	37794	12783
202	12895	38405	12795


Parameter=Bottom Conductivity (us/cm) STATION=15
50
40
30
20
10
0
Percent
2000
6000
10000
14000
18000
22000
26000
30000
34000
38000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=16

Moments			
N	333	**Sum Weights**	333
Mean	12942.1532	**Sum Observations**	4309737
Std Deviation	11358.0584	**Variance**	129005490
Skewness	0.54920727	**Kurtosis**	-0.6880885
Uncorrected SS	9.86071E10	**Corrected SS**	4.28298E10
Coeff Variation	87.7601914	**Std Error Mean**	622.417765

Basic Statistical Measures			
Location		**Variability**	
Mean	12942.15	**Std Deviation**	11358
Median	11267.00	**Variance**	129005490
Mode	351.00	**Range**	46367
		Interquartile Range	20695

Note: The mode displayed is the smallest of 10 modes with a count of 2.

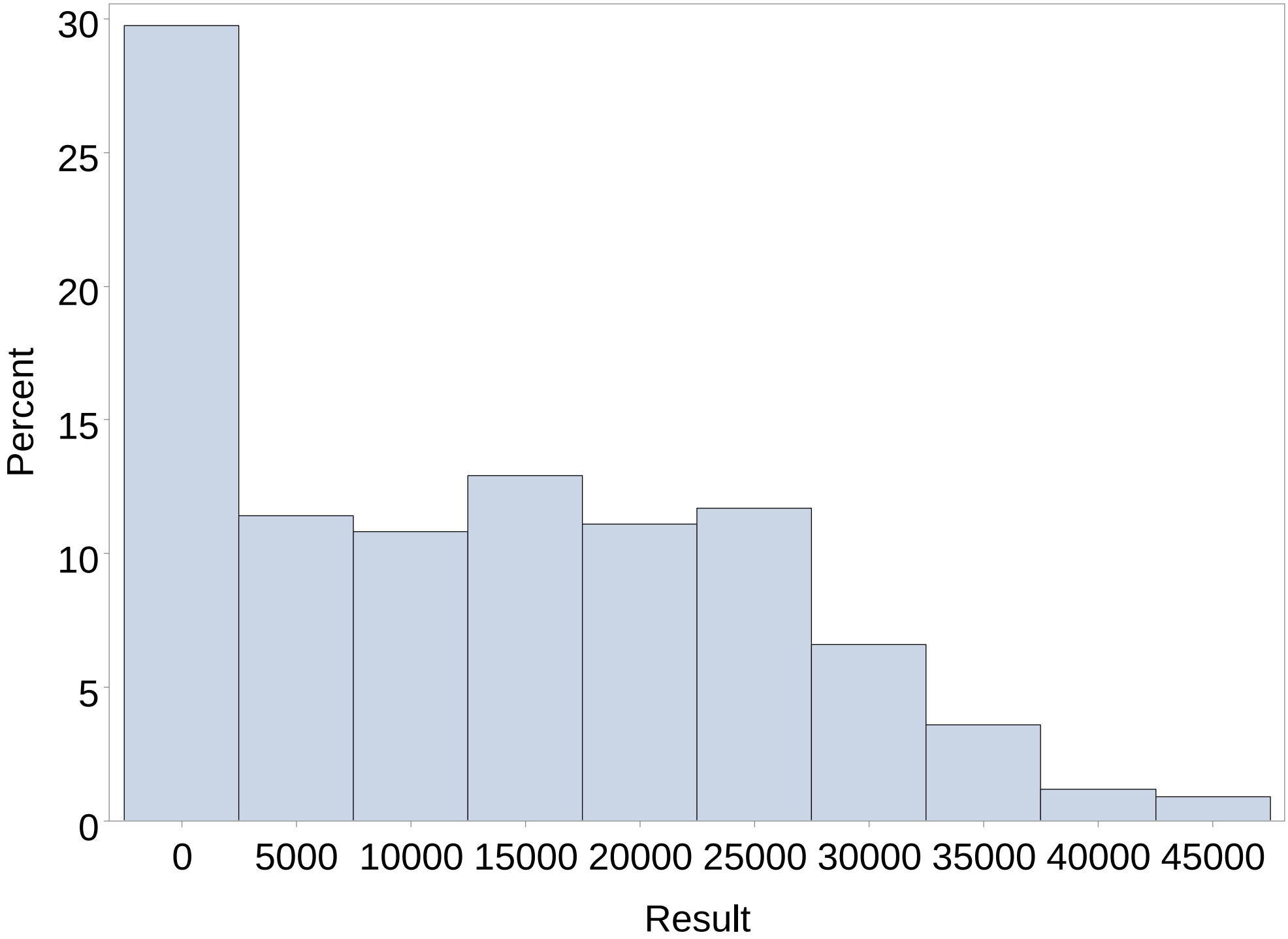
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.79335	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	46421
99%	41716
95%	33152
90%	29200
75% Q3	21900
50% Median	11267
25% Q1	1205
10%	379
5%	295
1%	191
0% Min	54

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	13181	39900	12923
174	13038	41716	13105
190	12966	42725	13128
191	12965	43193	13117
199	13204	46421	13116


Parameter=Bottom Conductivity (us/cm) STATION=16
Percent
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=17

Moments			
N	332	**Sum Weights**	332
Mean	14778.4639	**Sum Observations**	4906450
Std Deviation	11847.3844	**Variance**	140360517
Skewness	0.40997945	**Kurtosis**	-0.7788789
Uncorrected SS	1.18969E11	**Corrected SS**	4.64593E10
Coeff Variation	80.1665486	**Std Error Mean**	650.209691

Basic Statistical Measures			
Location		**Variability**	
Mean	14778.46	**Std Deviation**	11847
Median	13883.50	**Variance**	140360517
Mode	237.00	**Range**	49881
		Interquartile Range	21770

Note: The mode displayed is the smallest of 8 modes with a count of 2.

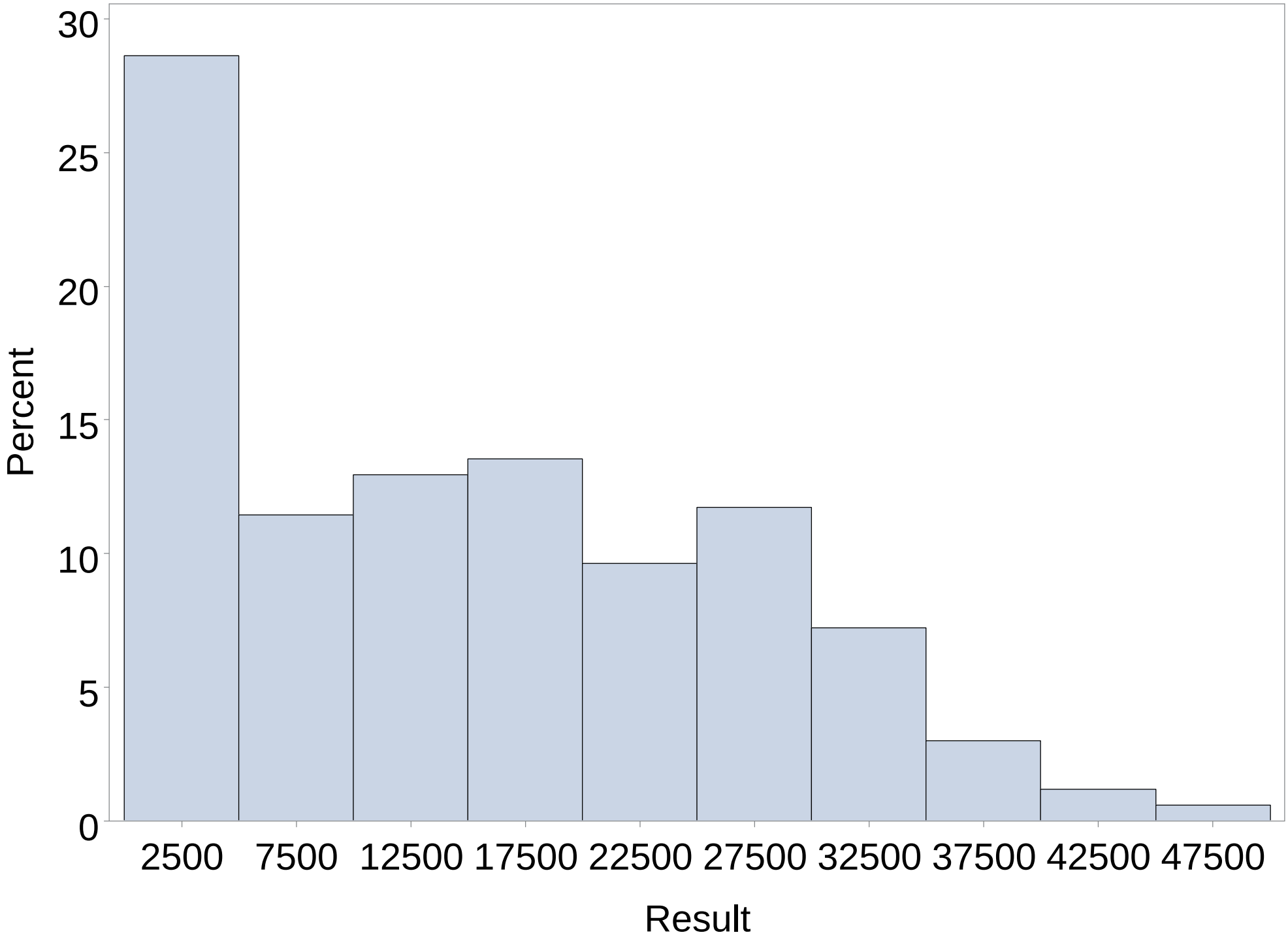
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.72877	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	49935.0
99%	43480.0
95%	34450.0
90%	31100.0
75% Q3	24141.5
50% Median	13883.5
25% Q1	2372.0
10%	397.0
5%	320.0
1%	207.0
0% Min	54.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	13513	42300	13256
158	13371	43480	13438
188	13299	43831	13460
207	13560	45700	13449
208	13536	49935	13448


Parameter=Bottom Conductivity (us/cm) STATION=17
30
25
20
15
10
5
0
Percent
2500
7500
12500
17500
22500
27500
32500
37500
42500
47500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	11117.0365	**Sum Observations**	3657505
Std Deviation	10998.5621	**Variance**	120968367
Skewness	0.78250029	**Kurtosis**	-0.3992042
Uncorrected SS	8.03382E10	**Corrected SS**	3.96776E10
Coeff Variation	98.9342986	**Std Error Mean**	606.370355

Basic Statistical Measures			
Location		**Variability**	
Mean	11117.04	**Std Deviation**	10999
Median	8190.00	**Variance**	120968367
Mode	320.00	**Range**	45008
		Interquartile Range	18393

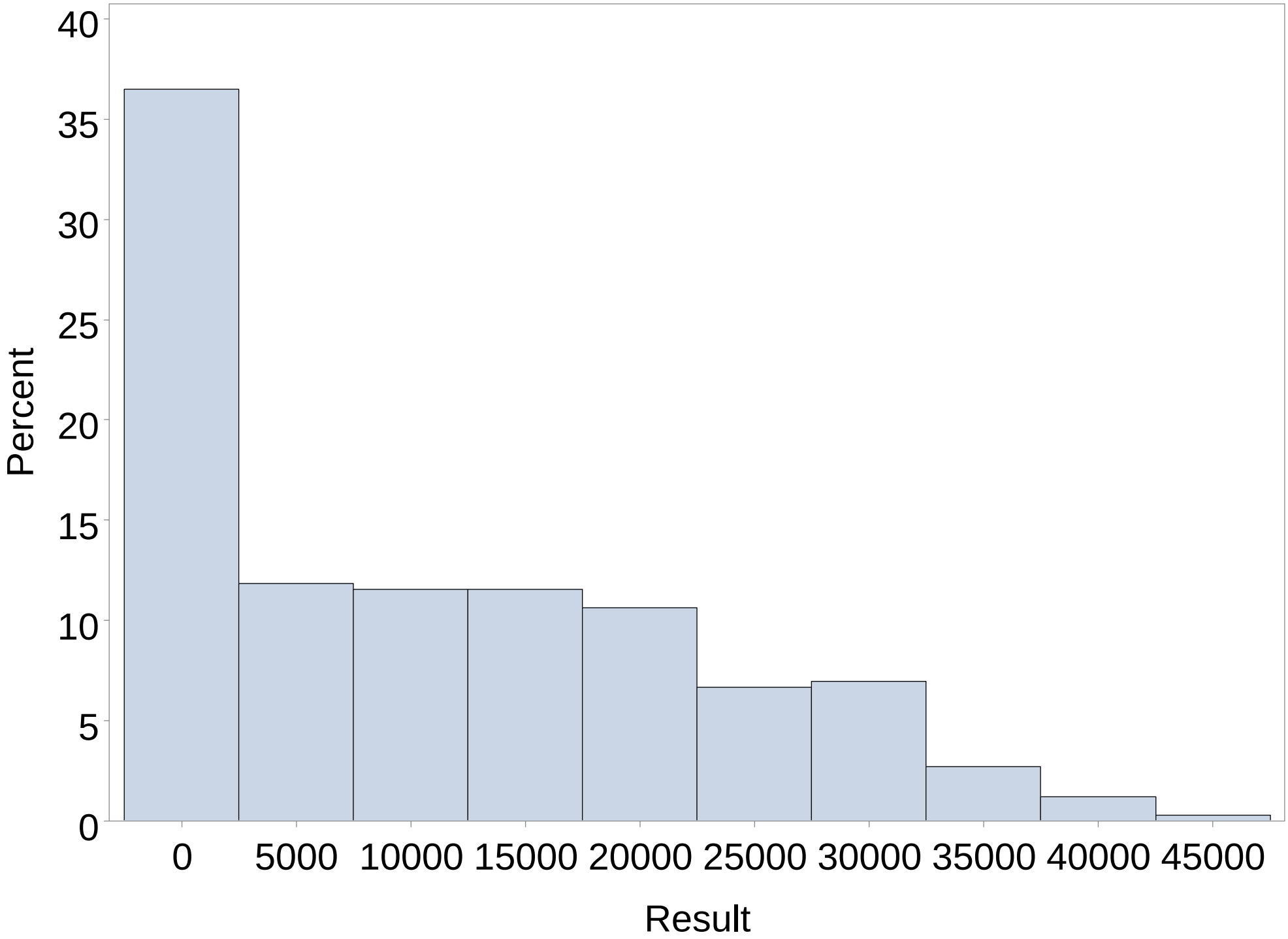
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.33374	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	45082
99%	40407
95%	32156
90%	28570
75% Q3	18973
50% Median	8190
25% Q1	580
10%	268
5%	209
1%	140
0% Min	74

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
74	13843	38460	13698
121	13737	40407	13768
129	13701	41243	13790
140	13736	42430	13779
154	13630	45082	13778


Parameter=Bottom Conductivity (us/cm) STATION=18
Percent
40
35
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=19

Moments			
N	331	**Sum Weights**	331
Mean	20168.5257	**Sum Observations**	6675782
Std Deviation	12596.9571	**Variance**	158683329
Skewness	-0.0745308	**Kurtosis**	-0.8434961
Uncorrected SS	1.87006E11	**Corrected SS**	5.23655E10
Coeff Variation	62.4584927	**Std Error Mean**	692.391383

Basic Statistical Measures			
Location		**Variability**	
Mean	20168.53	**Std Deviation**	12597
Median	21325.00	**Variance**	158683329
Mode	19700.00	**Range**	55399
		Interquartile Range	20451

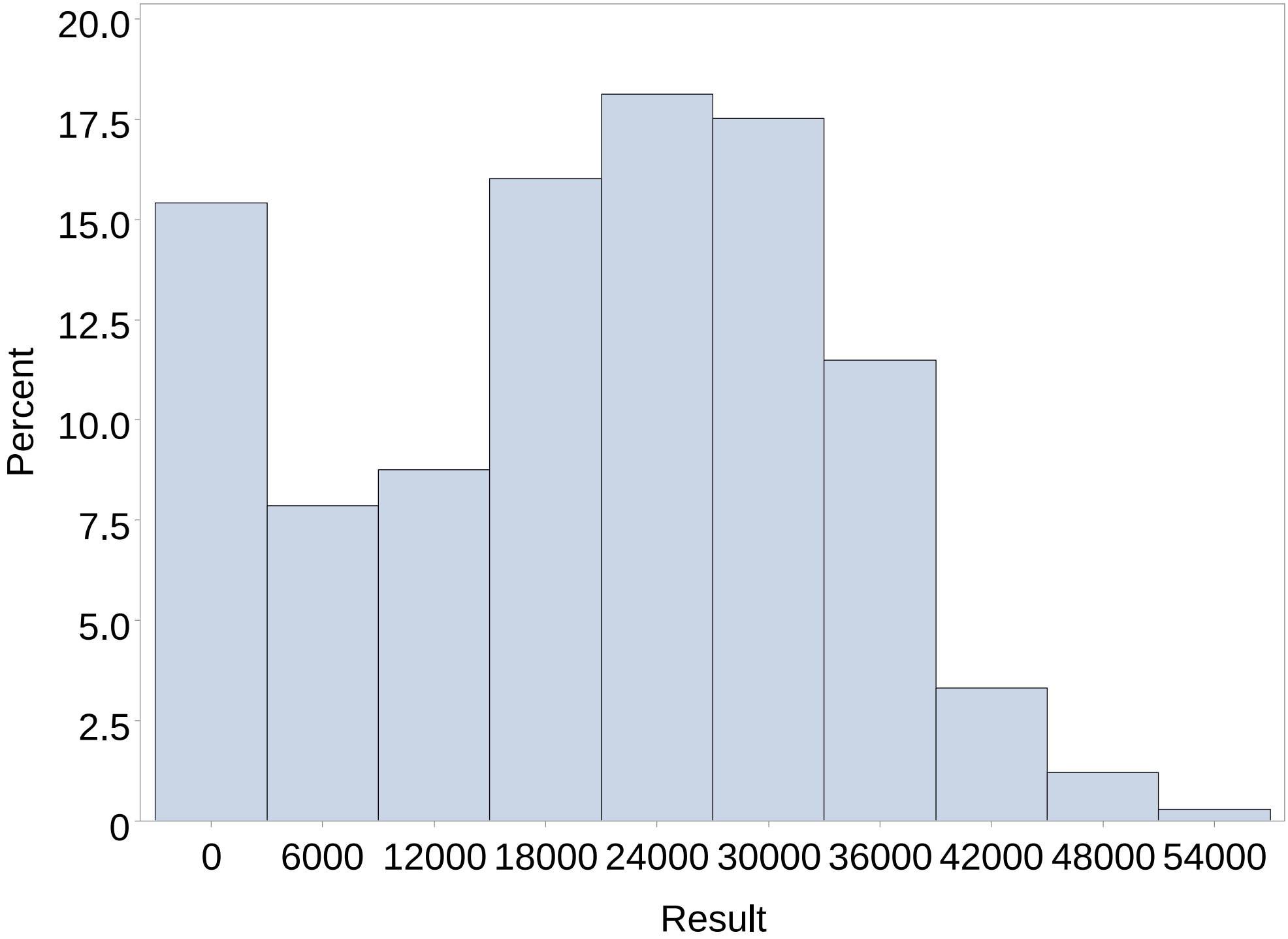
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	29.12879	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	55459
99%	47380
95%	38988
90%	35791
75% Q3	30105
50% Median	21325
25% Q1	9654
10%	396
5%	282
1%	158
0% Min	60

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
60	14173	46125	14120
156	14032	47380	14039
157	13960	47467	14098
158	14220	49165	14109
199	13991	55459	14108


Parameter=Bottom Conductivity (us/cm) STATION=19
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
6000
12000
18000
24000
30000
36000
42000
48000
54000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=22

Moments			
N	1	Sum Weights	1
Mean	674	Sum Observations	674
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	454276	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	674.0000	Std Deviation	.
Median	674.0000	Variance	.
Mode	674.0000	Range	0
		Interquartile Range	0

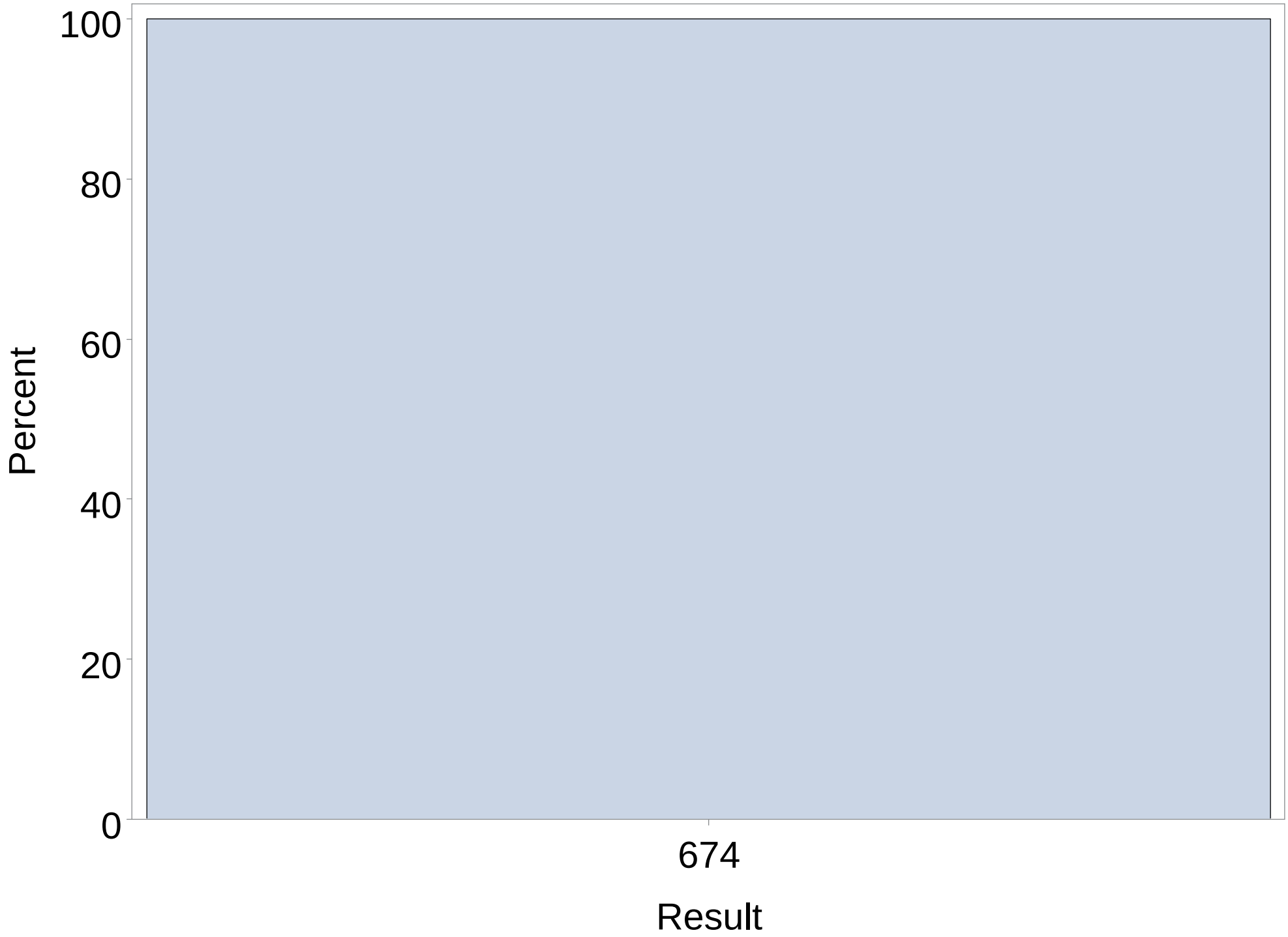
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	674
99%	674
95%	674
90%	674
75% Q3	674
50% Median	674
25% Q1	674
10%	674
5%	674
1%	674
0% Min	674

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Conductivity (us/cm) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
674	14236	674	14236


Parameter=Bottom Conductivity (us/cm) STATION=22
100
80
60
40
20
0
Percent
674
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=1

Moments			
N	334	**Sum Weights**	334
Mean	725.314371	**Sum Observations**	242255
Std Deviation	621.439422	**Variance**	386186.955
Skewness	9.50862695	**Kurtosis**	112.361895
Uncorrected SS	304311289	**Corrected SS**	128600256
Coeff Variation	85.6786307	**Std Error Mean**	34.0036523

Basic Statistical Measures			
Location		**Variability**	
Mean	725.3144	**Std Deviation**	621.43942
Median	674.5000	**Variance**	386187
Mode	665.0000	**Range**	8693
		Interquartile Range	344.00000

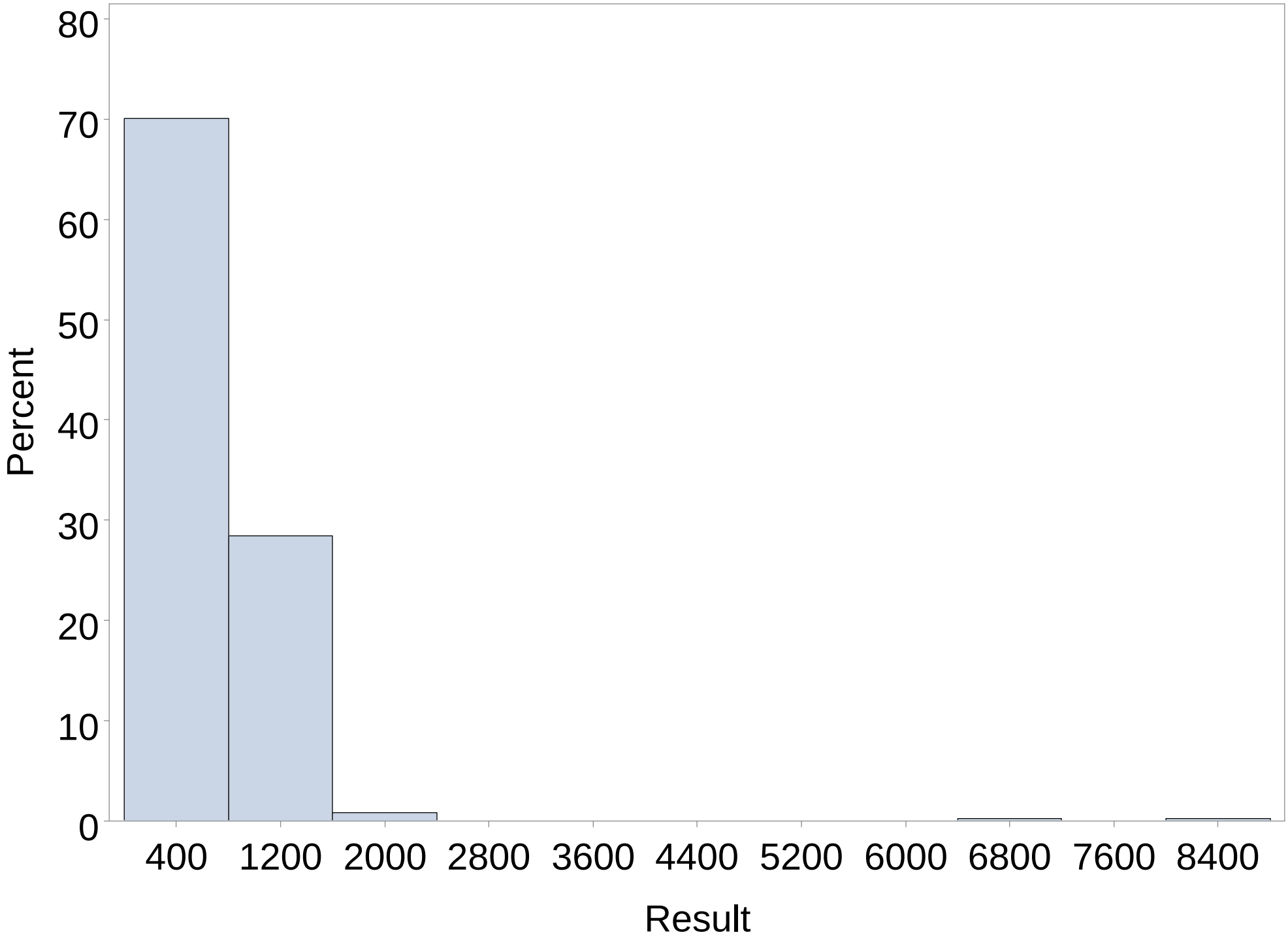
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.33048	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8760.0
99%	1620.0
95%	1237.0
90%	1020.0
75% Q3	838.0
50% Median	674.5
25% Q1	494.0
10%	341.0
5%	274.0
1%	176.0
0% Min	67.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
67	14508	1601	14326
98	14476	1620	14371
174	14292	1684	14358
176	14555	6900	14329
211	14531	8760	14276


Parameter=Surface Conductivity (us/cm) STATION=1
Percent
80
70
60
50
40
30
20
10
0
400
1200
2000
2800
3600
4400
5200
6000
6800
7600
8400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=2

Moments			
N	332	**Sum Weights**	332
Mean	931.828313	**Sum Observations**	309367
Std Deviation	449.837377	**Variance**	202353.665
Skewness	4.8919928	**Kurtosis**	54.8302973
Uncorrected SS	355255993	**Corrected SS**	66979063.2
Coeff Variation	48.2747058	**Std Error Mean**	24.6880334

Basic Statistical Measures			
Location		**Variability**	
Mean	931.8283	**Std Deviation**	449.83738
Median	936.5000	**Variance**	202354
Mode	940.0000	**Range**	6101
		Interquartile Range	461.50000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

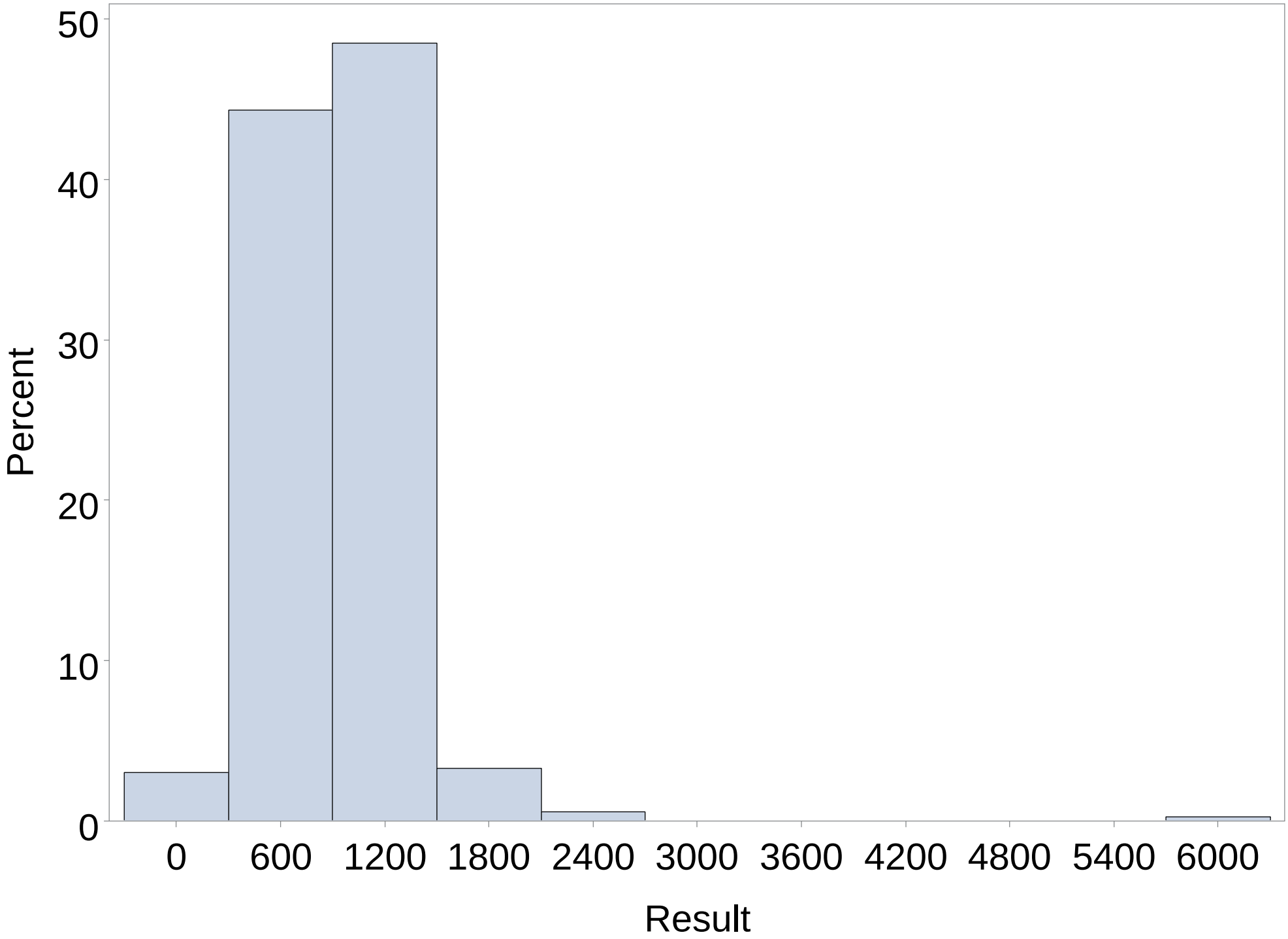
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	37.74413	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6170.0
99%	1880.0
95%	1475.0
90%	1374.0
75% Q3	1126.5
50% Median	936.5
25% Q1	665.0
10%	456.0
5%	344.0
1%	270.0
0% Min	69.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
69	14840	1660	14702
172	14696	1880	14703
249	14874	2170	14660
270	14755	2414	14658
272	14887	6170	14663


Parameter=Surface Conductivity (us/cm) STATION=2
Percent
50
40
30
20
10
0
0
600
1200
1800
2400
3000
3600
4200
4800
5400
6000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=3

Moments			
N	328	**Sum Weights**	328
Mean	784.801829	**Sum Observations**	257415
Std Deviation	782.150028	**Variance**	611758.667
Skewness	10.6986974	**Kurtosis**	132.201877
Uncorrected SS	402064847	**Corrected SS**	200045084
Coeff Variation	99.6621057	**Std Error Mean**	43.1870106

Basic Statistical Measures			
Location		**Variability**	
Mean	784.8018	**Std Deviation**	782.15003
Median	715.5000	**Variance**	611759
Mode	837.0000	**Range**	11327
		Interquartile Range	378.00000

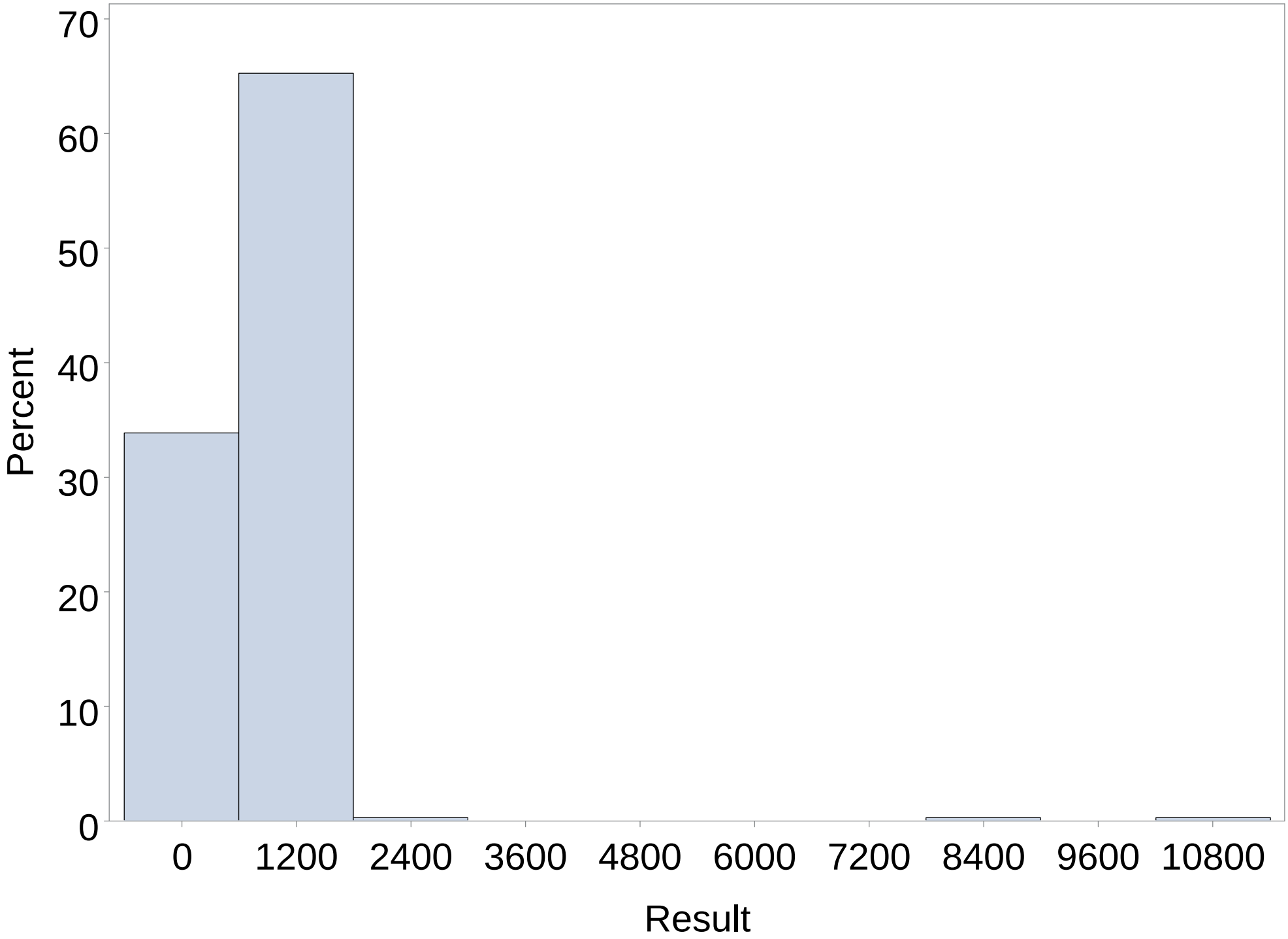
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.17217	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11336.0
99%	1640.0
95%	1245.0
90%	1070.0
75% Q3	898.0
50% Median	715.5
25% Q1	520.0
10%	384.0
5%	321.0
1%	244.0
0% Min	9.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9	15224	1637	14992
54	15171	1640	15036
224	14958	2010	15029
244	15194	8660	14942
245	15075	11336	15152


Parameter=Surface Conductivity (us/cm) STATION=3
Percent
70
60
50
40
30
20
10
0
0
1200
2400
3600
4800
6000
7200
8400
9600
10800
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=4

Moments			
N	333	**Sum Weights**	333
Mean	2797.33333	**Sum Observations**	931512
Std Deviation	4833.29296	**Variance**	23360720.9
Skewness	2.80650511	**Kurtosis**	8.06268615
Uncorrected SS	1.03615E10	**Corrected SS**	7755759326
Coeff Variation	172.78216	**Std Error Mean**	264.862823

Basic Statistical Measures			
Location		**Variability**	
Mean	2797.333	**Std Deviation**	4833
Median	777.000	**Variance**	23360721
Mode	490.000	**Range**	29701
		Interquartile Range	1521

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

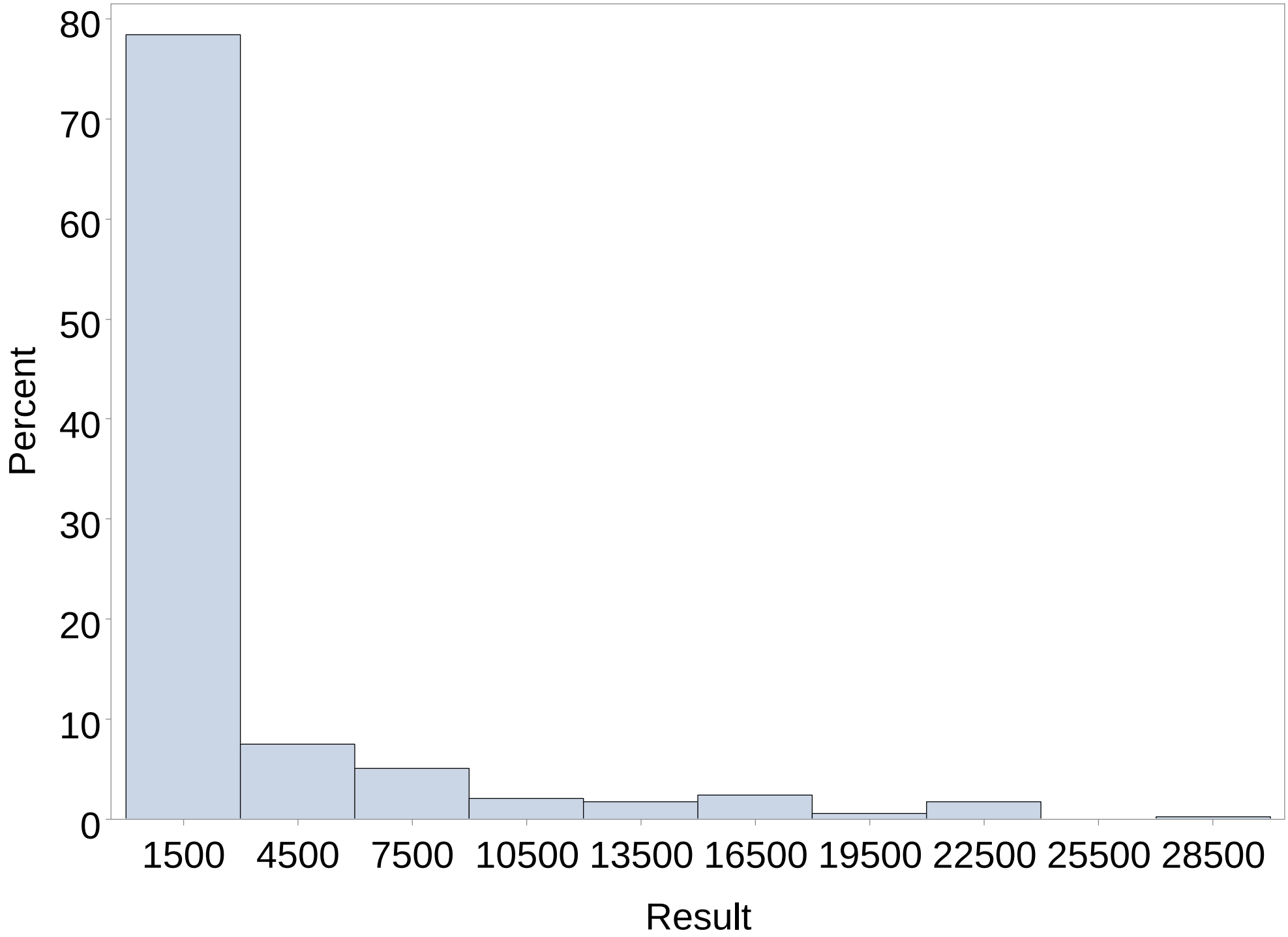
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.56144	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29762
99%	22490
95%	15030
90%	8700
75% Q3	2050
50% Median	777
25% Q1	529
10%	364
5%	300
1%	201
0% Min	61

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
61	15501	22459	15437
183	15548	22490	15342
191	15358	22687	15484
201	15524	23741	15544
210	15286	29762	15448


Parameter=Surface Conductivity (us/cm) STATION=4
Percent
80
70
60
50
40
30
20
10
0
1500
4500
7500
10500
13500
16500
19500
22500
25500
28500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=5

Moments			
N	334	**Sum Weights**	334
Mean	3891.47605	**Sum Observations**	1299753
Std Deviation	5861.83524	**Variance**	34361112.4
Skewness	2.18365159	**Kurtosis**	4.47358357
Uncorrected SS	1.65002E10	**Corrected SS**	1.14423E10
Coeff Variation	150.632695	**Std Error Mean**	320.745354

Basic Statistical Measures			
Location		**Variability**	
Mean	3891.476	**Std Deviation**	5862
Median	977.000	**Variance**	34361112
Mode	262.000	**Range**	31493
		Interquartile Range	4498

Note: The mode displayed is the smallest of 18 modes with a count of 2.

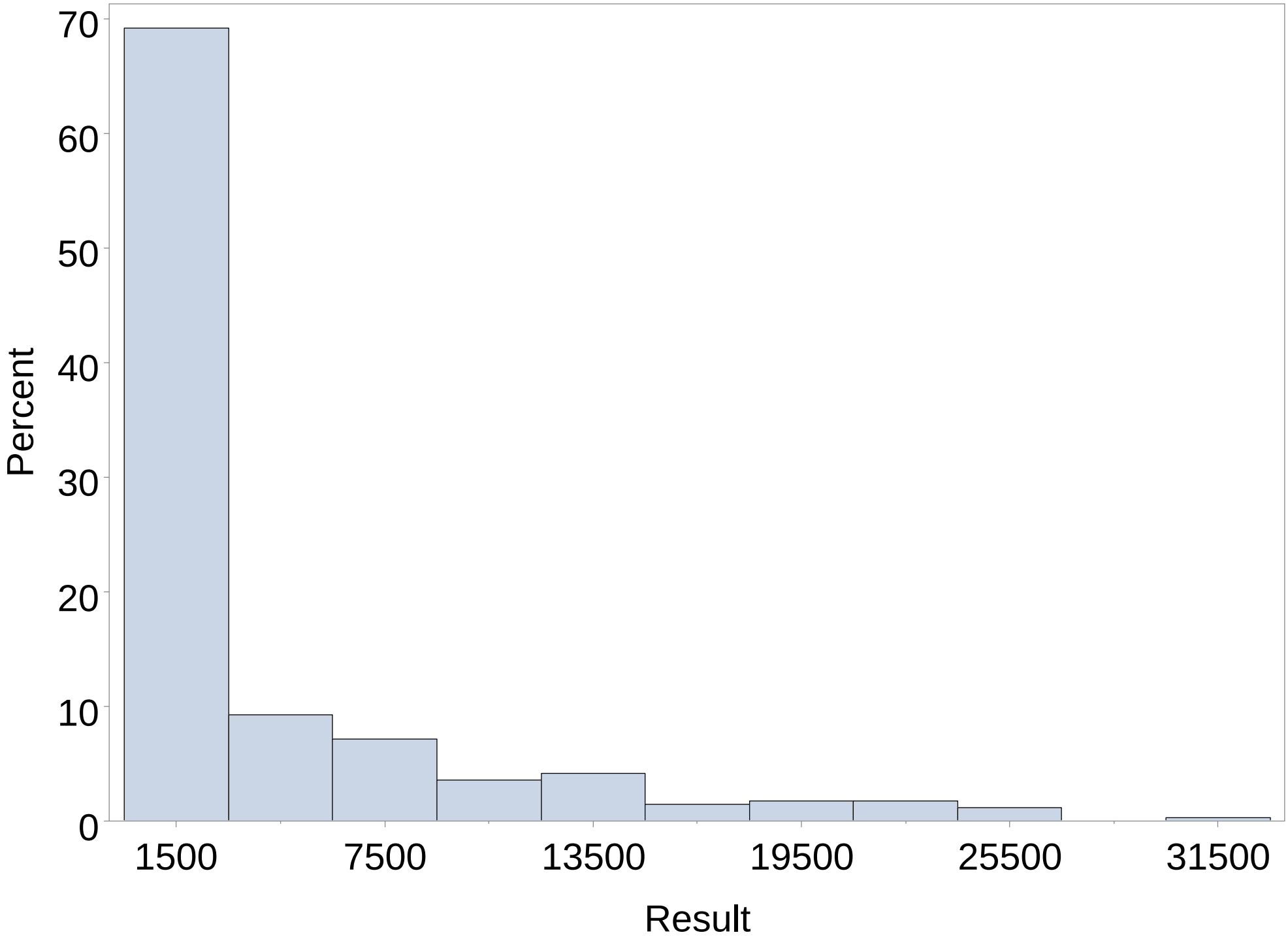
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.1326	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31545
99%	25116
95%	18436
90%	12750
75% Q3	5030
50% Median	977
25% Q1	532
10%	366
5%	307
1%	198
0% Min	52

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
52	15835	24805	15781
168	15691	25116	15878
189	15620	25443	15818
198	15882	26503	15771
201	15858	31545	15782


Parameter=Surface Conductivity (us/cm) STATION=5
Percent
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	5994.53453	**Sum Observations**	1996180
Std Deviation	7829.79591	**Variance**	61305704
Skewness	1.60285474	**Kurtosis**	1.95193562
Uncorrected SS	3.23197E10	**Corrected SS**	2.03535E10
Coeff Variation	130.615578	**Std Error Mean**	429.070173

Basic Statistical Measures			
Location		**Variability**	
Mean	5994.535	**Std Deviation**	7830
Median	1694.000	**Variance**	61305704
Mode	244.000	**Range**	36591
		Interquartile Range	9018

Note: The mode displayed is the smallest of 11 modes with a count of 2.

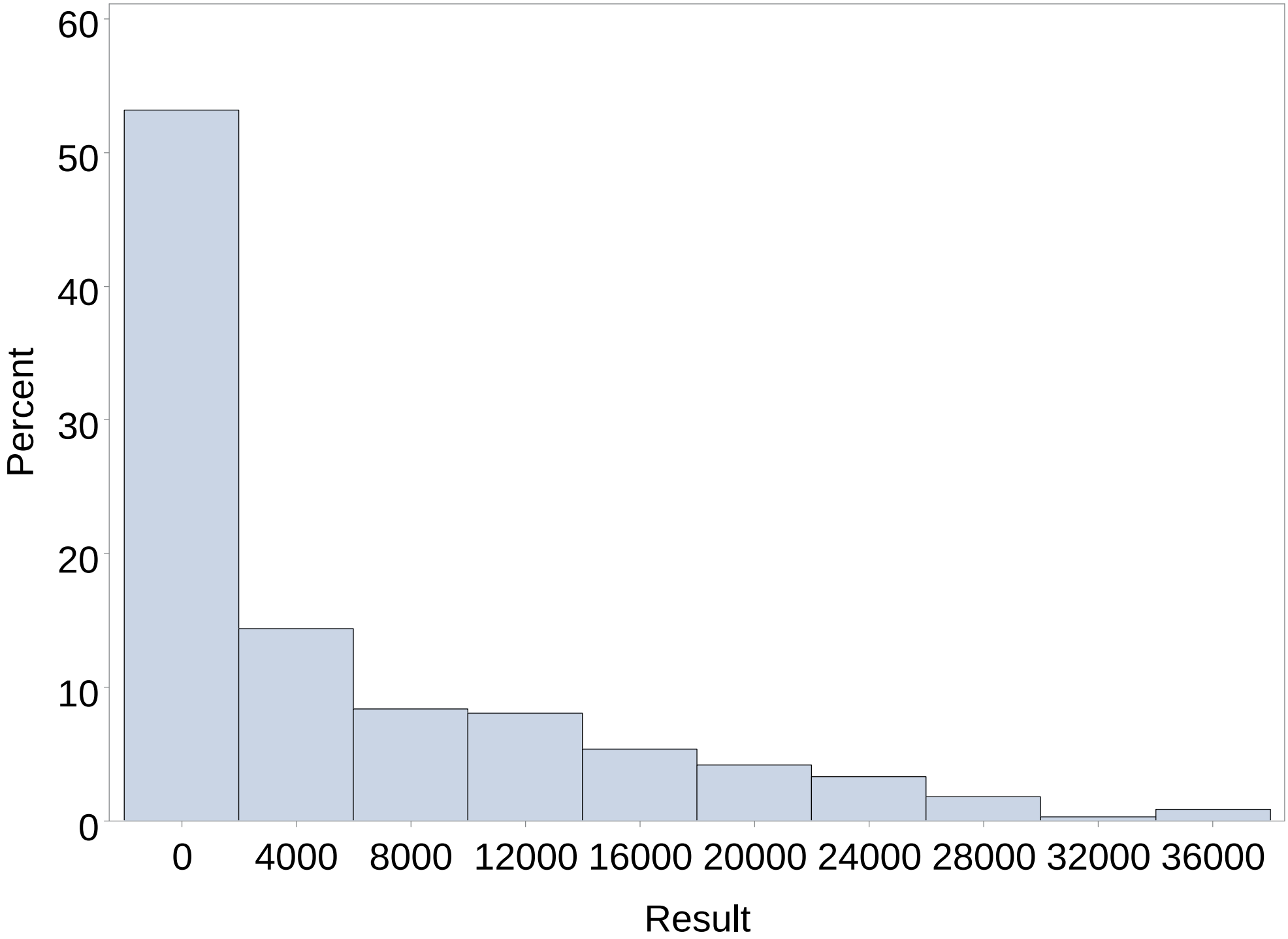
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.97099	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36645
99%	30574
95%	23200
90%	18084
75% Q3	9590
50% Median	1694
25% Q1	572
10%	370
5%	312
1%	201
0% Min	54

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	16168	29194	16211
167	16025	30574	16151
190	15953	34836	16103
201	16191	35191	16104
202	16215	36645	16115


Parameter=Surface Conductivity (us/cm) STATION=6
Percent
60
50
40
30
20
10
0
0
4000
8000
12000
16000
20000
24000
28000
32000
36000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	9170.93694	**Sum Observations**	3053922
Std Deviation	9784.7824	**Variance**	95741966.5
Skewness	1.09726106	**Kurtosis**	0.35349017
Uncorrected SS	5.97937E10	**Corrected SS**	3.17863E10
Coeff Variation	106.693378	**Std Error Mean**	536.202772

Basic Statistical Measures			
Location		**Variability**	
Mean	9170.937	**Std Deviation**	9785
Median	5679.000	**Variance**	95741967
Mode	247.000	**Range**	41928
		Interquartile Range	14060

Note: The mode displayed is the smallest of 7 modes with a count of 2.

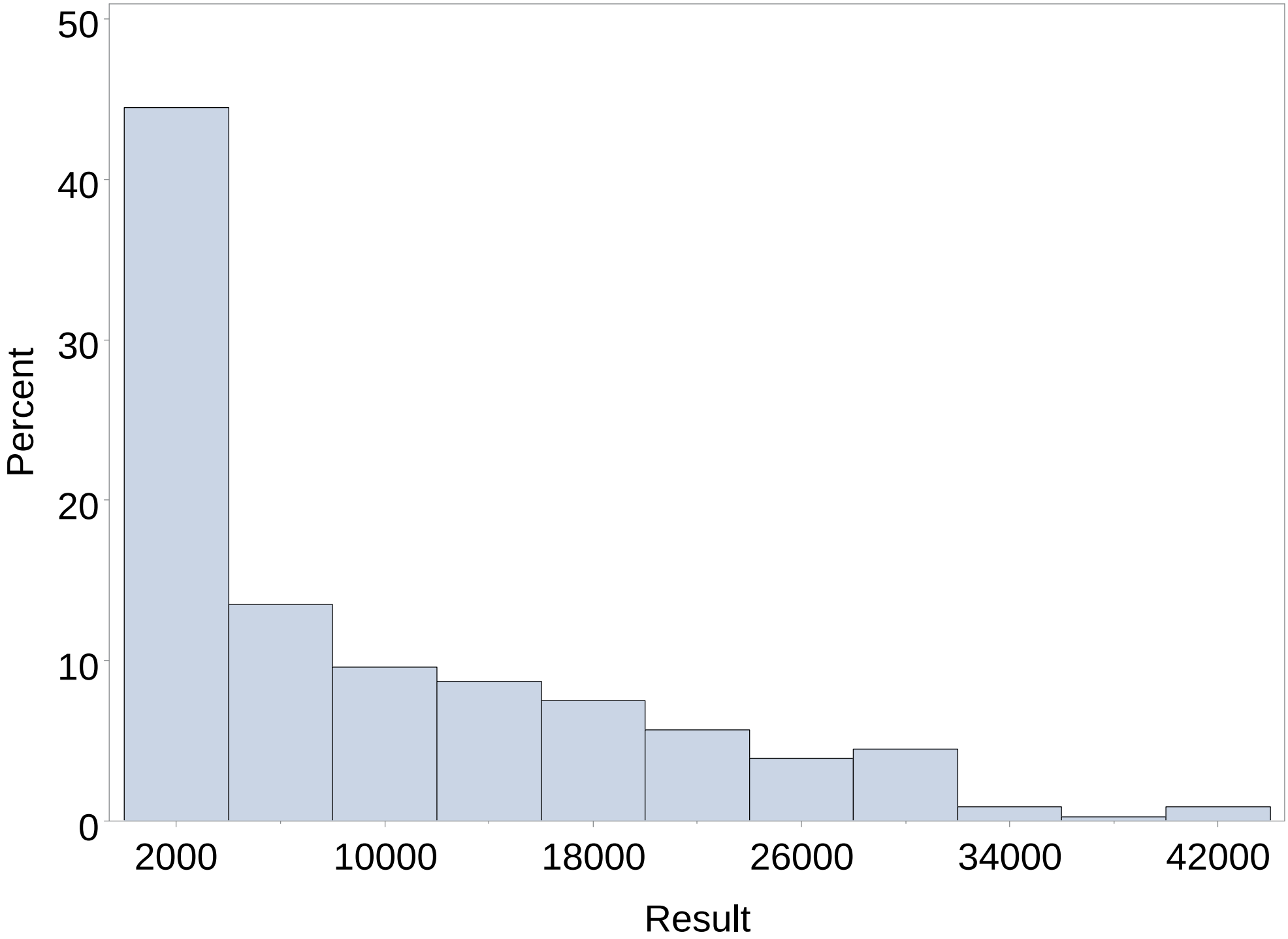
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.10349	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	41982
99%	36462
95%	29770
90%	24159
75% Q3	14745
50% Median	5679
25% Q1	685
10%	381
5%	275
1%	200
0% Min	54

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	16501	35307	16484
164	16358	36462	16425
192	16286	40102	16448
200	16524	40749	16437
204	16548	41982	16436


Parameter=Surface Conductivity (us/cm) STATION=7
50
40
30
20
10
0
Percent
2000
10000
18000
26000
34000
42000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=8

Moments			
N	324	**Sum Weights**	324
Mean	11109.2068	**Sum Observations**	3599383
Std Deviation	10950.21	**Variance**	119907098
Skewness	0.80002393	**Kurtosis**	-0.3581867
Uncorrected SS	7.87163E10	**Corrected SS**	3.873E10
Coeff Variation	98.5687832	**Std Error Mean**	608.344998

Basic Statistical Measures			
Location		**Variability**	
Mean	11109.21	**Std Deviation**	10950
Median	7234.00	**Variance**	119907098
Mode	205.00	**Range**	46741
		Interquartile Range	18492

Note: The mode displayed is the smallest of 13 modes with a count of 2.

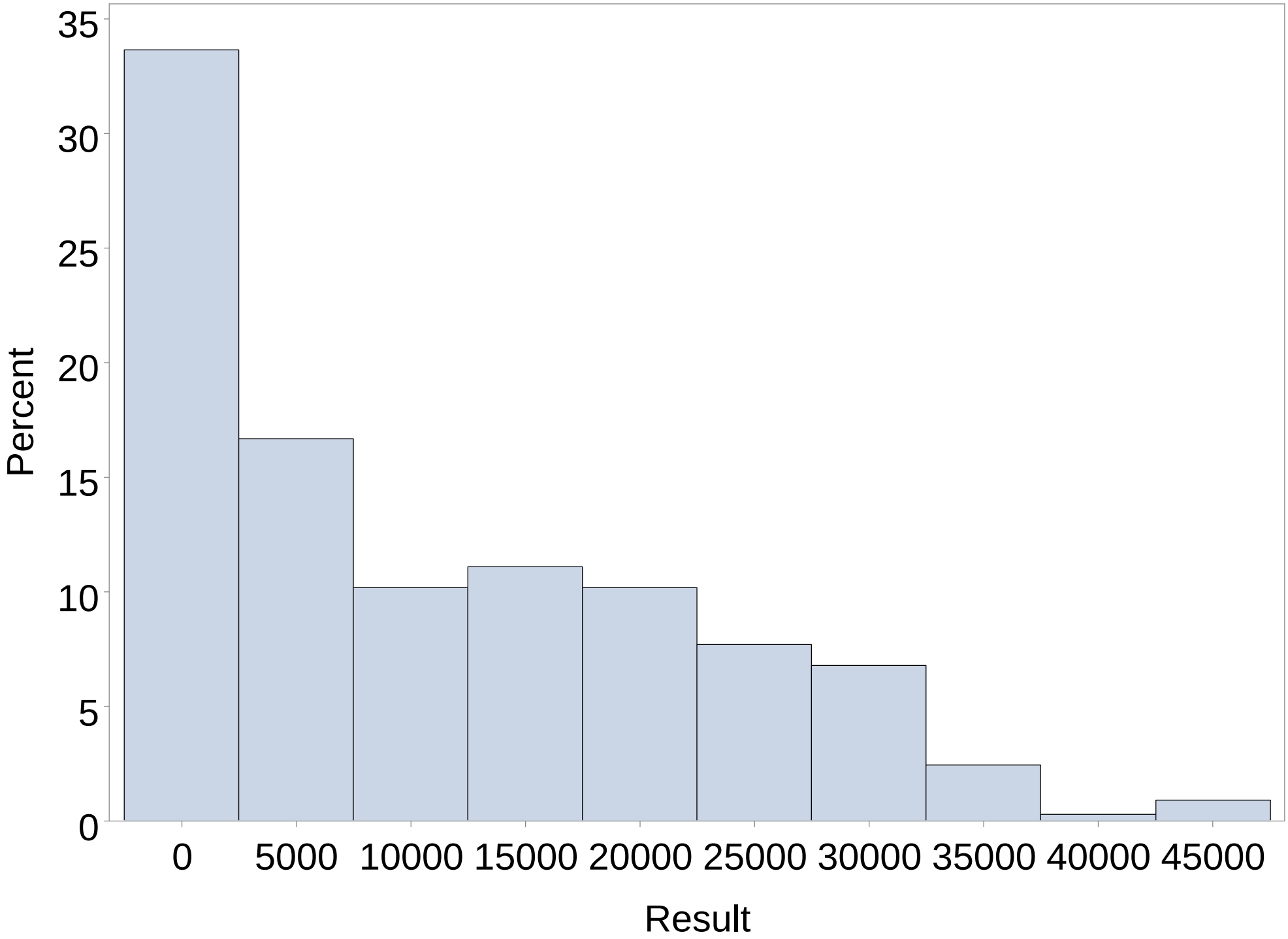
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.26136	**Pr > |t|**	<.0001
Sign	**M**	162	**Pr >= |M|**	<.0001
Signed Rank	**S**	26325	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	46814.0
99%	38242.0
95%	31400.0
90%	28269.0
75% Q3	19152.0
50% Median	7234.0
25% Q1	660.5
10%	272.0
5%	214.0
1%	140.0
0% Min	73.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
73	16828	34947	16752
118	16724	38242	16753
139	16688	43060	16775
140	16723	43495	16764
155	16619	46814	16763


Parameter=Surface Conductivity (us/cm) STATION=8
Percent
35
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=9

Moments			
N	330	**Sum Weights**	330
Mean	14627.5333	**Sum Observations**	4827086
Std Deviation	12060.8498	**Variance**	145464097
Skewness	0.48094592	**Kurtosis**	-0.7480239
Uncorrected SS	1.18466E11	**Corrected SS**	4.78577E10
Coeff Variation	82.4530664	**Std Error Mean**	663.927929

Basic Statistical Measures			
Location		**Variability**	
Mean	14627.53	**Std Deviation**	12061
Median	12719.50	**Variance**	145464097
Mode	370.00	**Range**	50435
		Interquartile Range	21937

Note: The mode displayed is the smallest of 10 modes with a count of 2.

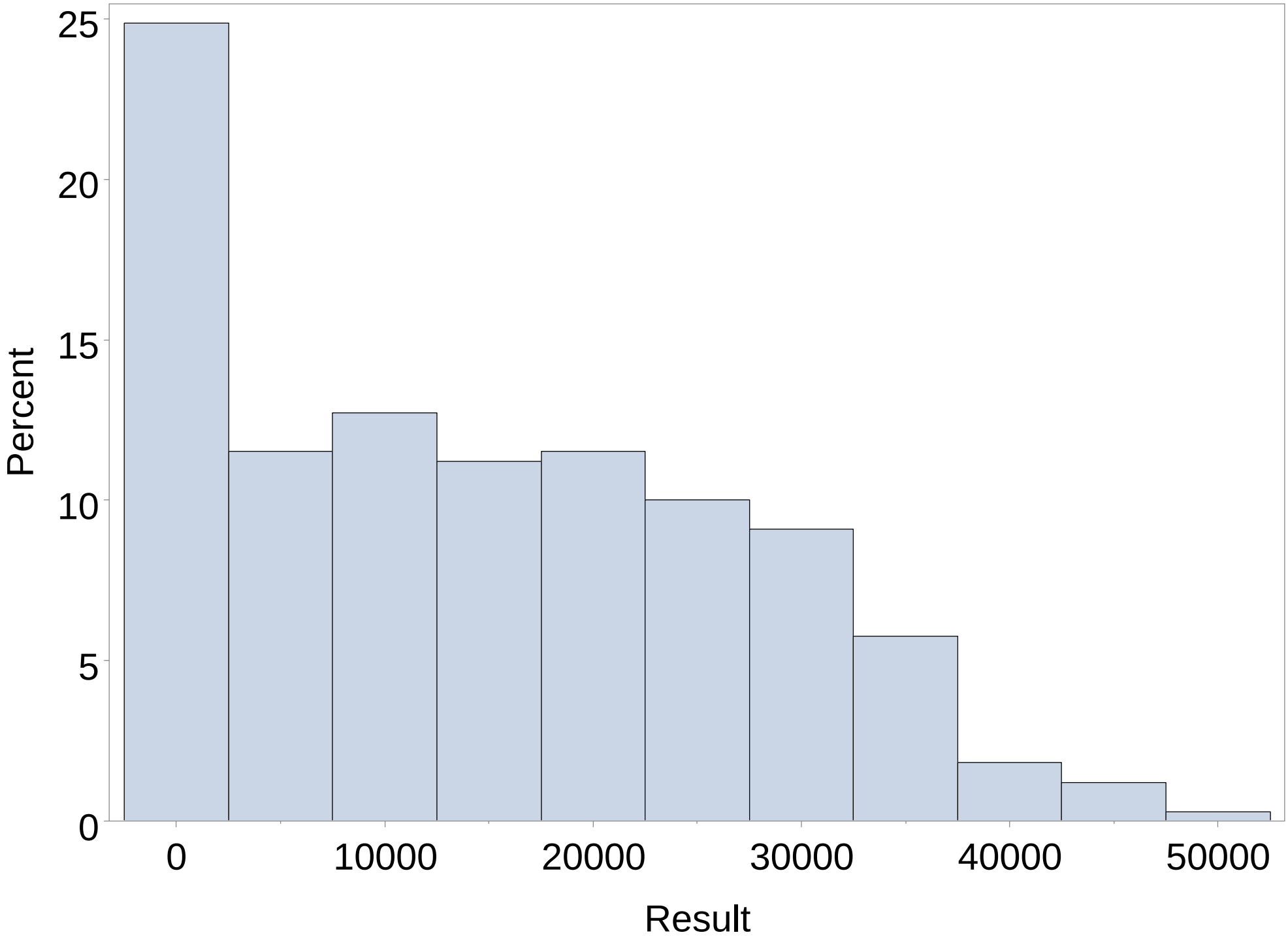
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.03181	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	50503.0
99%	44500.0
95%	35200.0
90%	31635.0
75% Q3	24581.0
50% Median	12719.5
25% Q1	2644.0
10%	371.5
5%	290.0
1%	160.0
0% Min	68.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
68	17156	42913	17080
127	17013	44500	17020
141	17049	44977	17103
160	17203	46624	17092
180	16943	50503	17091


Parameter=Surface Conductivity (us/cm) STATION=9
Percent
25
20
15
10
5
0
0
10000
20000
30000
40000
50000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=10

Moments			
N	328	**Sum Weights**	328
Mean	2394.64939	**Sum Observations**	785445
Std Deviation	4596.25888	**Variance**	21125595.7
Skewness	3.2096114	**Kurtosis**	10.4999749
Uncorrected SS	8788935171	**Corrected SS**	6908069781
Coeff Variation	191.938699	**Std Error Mean**	253.785941

Basic Statistical Measures			
Location		**Variability**	
Mean	2394.649	**Std Deviation**	4596
Median	731.000	**Variance**	21125596
Mode	367.000	**Range**	29186
		Interquartile Range	666.00000

Note: The mode displayed is the smallest of 5 modes with a count of 3.

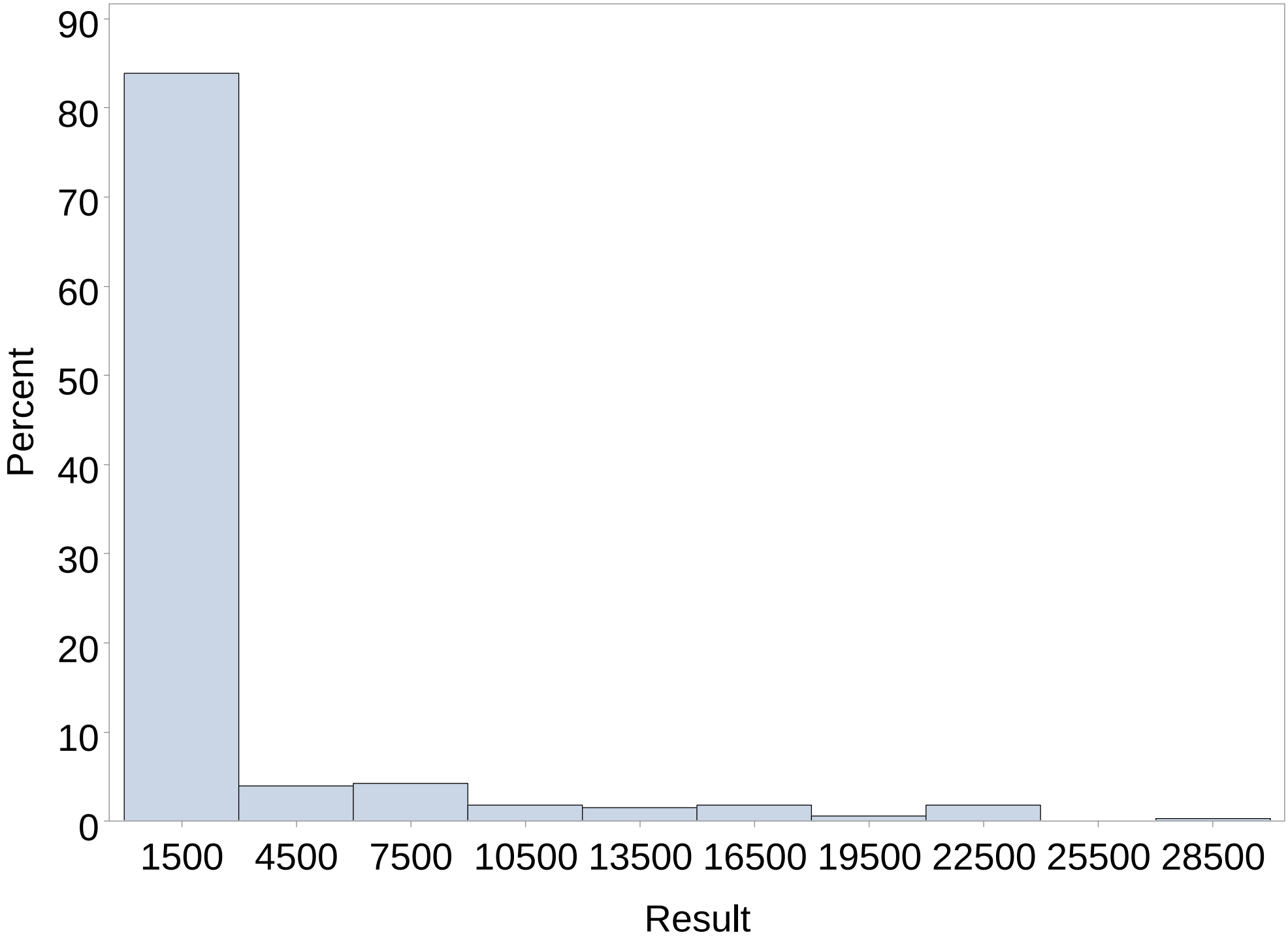
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.435705	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29247.0
99%	22220.0
95%	13960.0
90%	6910.0
75% Q3	1169.5
50% Median	731.0
25% Q1	503.5
10%	364.0
5%	300.0
1%	201.0
0% Min	61.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
61	17483	22049	17466
178	17274	22220	17330
187	17530	22680	17331
201	17346	23045	17526
215	17506	29247	17430


Parameter=Surface Conductivity (us/cm) STATION=10
Percent
90
80
70
60
50
40
30
20
10
0
1500
4500
7500
10500
13500
16500
19500
22500
25500
28500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	2563.00301	**Sum Observations**	850917
Std Deviation	5220.08328	**Variance**	27249269.4
Skewness	4.16854234	**Kurtosis**	23.4561769
Uncorrected SS	1.12004E10	**Corrected SS**	9019508179
Coeff Variation	203.670587	**Std Error Mean**	286.489289

Basic Statistical Measures			
Location		**Variability**	
Mean	2563.003	**Std Deviation**	5220
Median	741.000	**Variance**	27249269
Mode	471.000	**Range**	48694
		Interquartile Range	777.50000

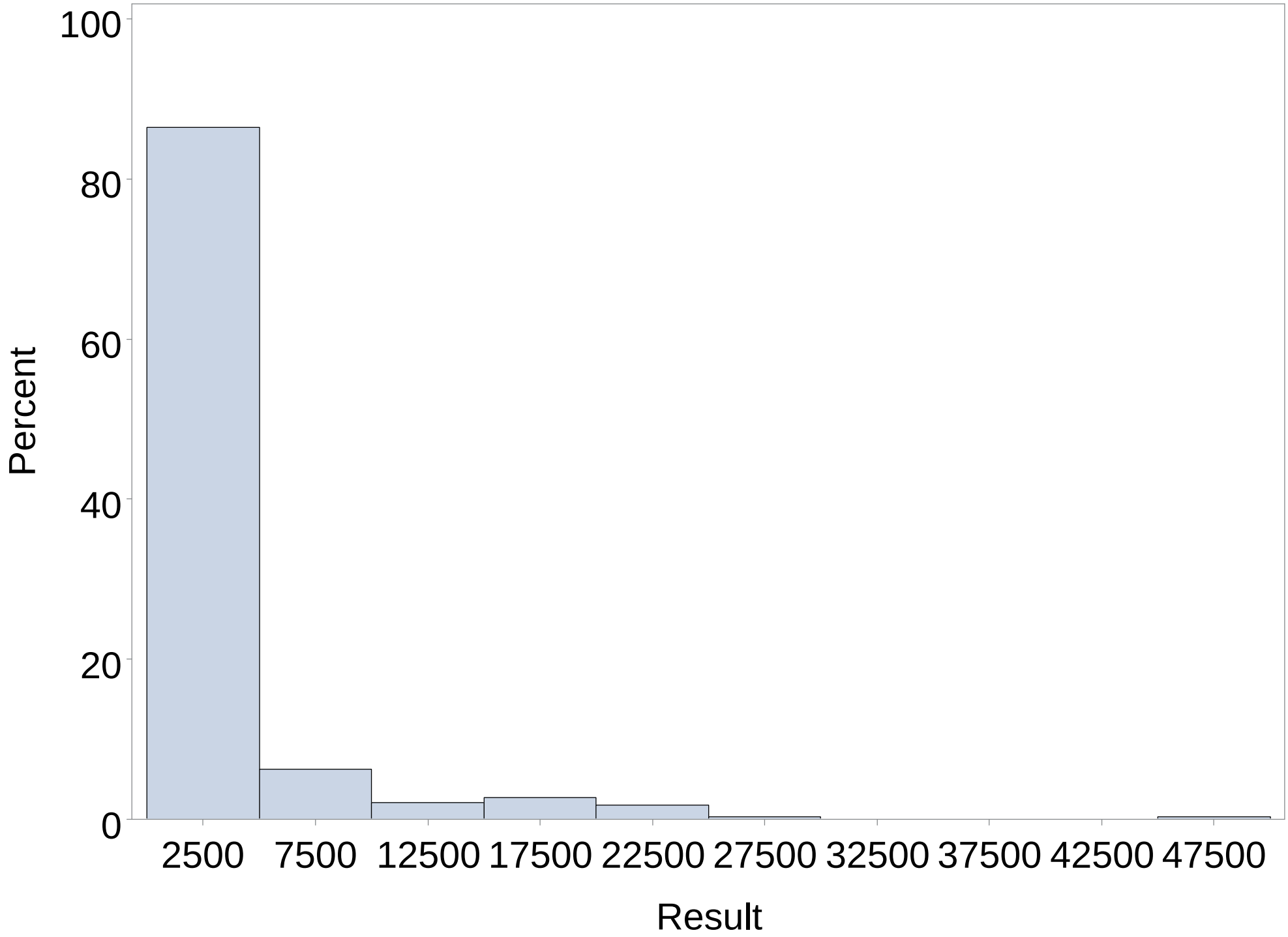
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.946244	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	48700.0
99%	23095.0
95%	15130.0
90%	7701.0
75% Q3	1297.0
50% Median	741.0
25% Q1	519.5
10%	377.0
5%	313.0
1%	206.0
0% Min	6.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6	17869	22420	17656
58	17815	23095	17858
182	17672	23550	17657
206	17862	29478	17762
222	17601	48700	17875


Parameter=Surface Conductivity (us/cm) STATION=11
100
80
60
40
20
0
Percent
2500
7500
12500
17500
22500
27500
32500
37500
42500
47500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=12

Moments			
N	332	**Sum Weights**	332
Mean	3207.93675	**Sum Observations**	1065035
Std Deviation	5220.24673	**Variance**	27250976
Skewness	2.53069292	**Kurtosis**	6.36277881
Uncorrected SS	1.24366E10	**Corrected SS**	9020073044
Coeff Variation	162.729104	**Std Error Mean**	286.49826

Basic Statistical Measures			
Location		**Variability**	
Mean	3207.937	**Std Deviation**	5220
Median	844.500	**Variance**	27250976
Mode	368.000	**Range**	30195
		Interquartile Range	2869

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

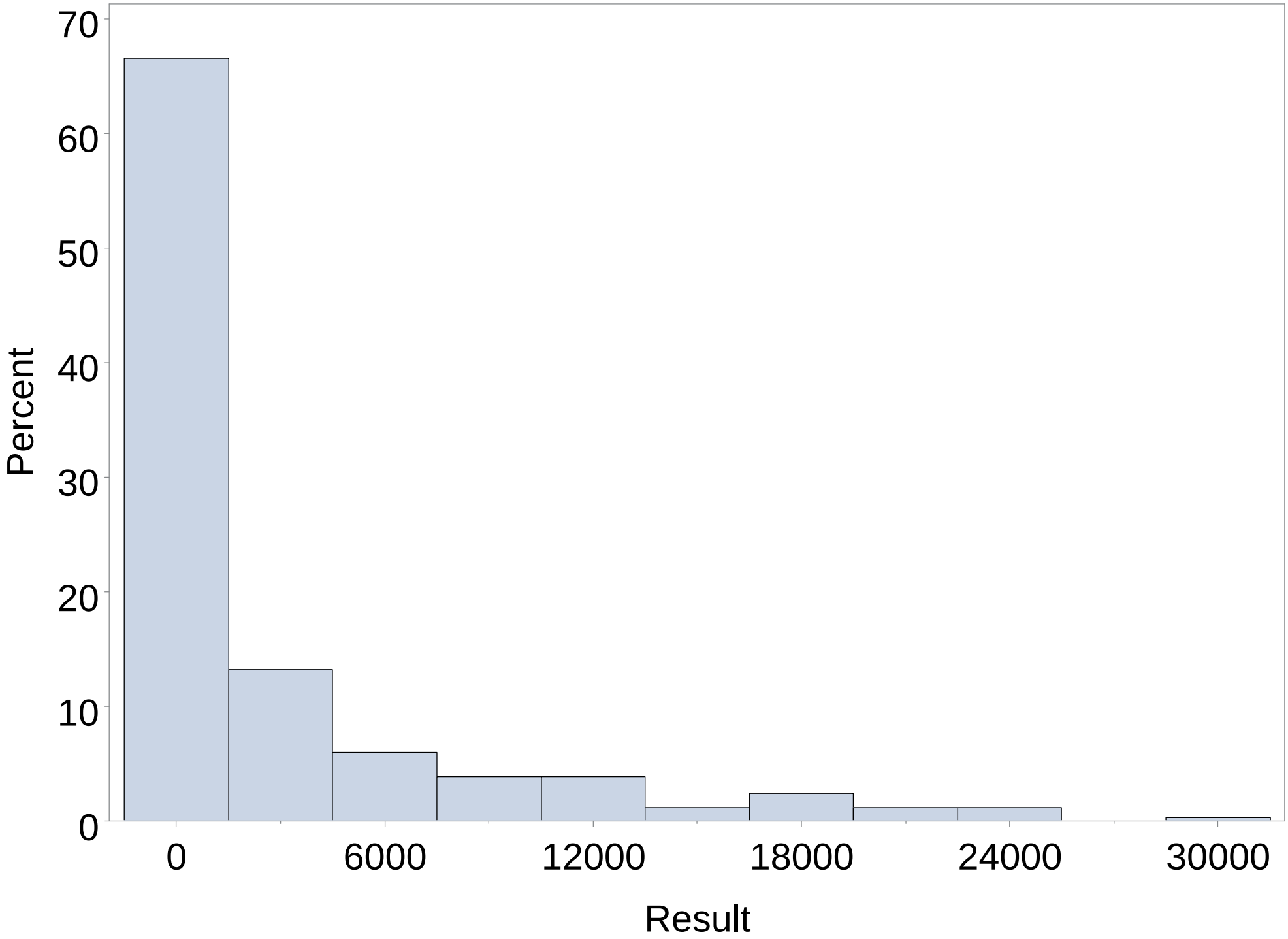
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.19705	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30253.0
99%	23979.0
95%	16728.0
90%	10650.0
75% Q3	3376.5
50% Median	844.5
25% Q1	507.5
10%	334.0
5%	275.0
1%	179.0
0% Min	58.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
58	18147	23088	18093
173	18050	23979	18130
175	18182	24047	18190
179	18004	24401	18084
190	17933	30253	18094


Parameter=Surface Conductivity (us/cm) STATION=12
Percent
70
60
50
40
30
20
10
0
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	3525.11976	**Sum Observations**	1177390
Std Deviation	5538.66097	**Variance**	30676765.3
Skewness	2.39212929	**Kurtosis**	5.64319142
Uncorrected SS	1.43658E10	**Corrected SS**	1.02154E10
Coeff Variation	157.119796	**Std Error Mean**	303.062044

Basic Statistical Measures			
Location		**Variability**	
Mean	3525.120	**Std Deviation**	5539
Median	887.500	**Variance**	30676765
Mode	315.000	**Range**	31426
		Interquartile Range	3434

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

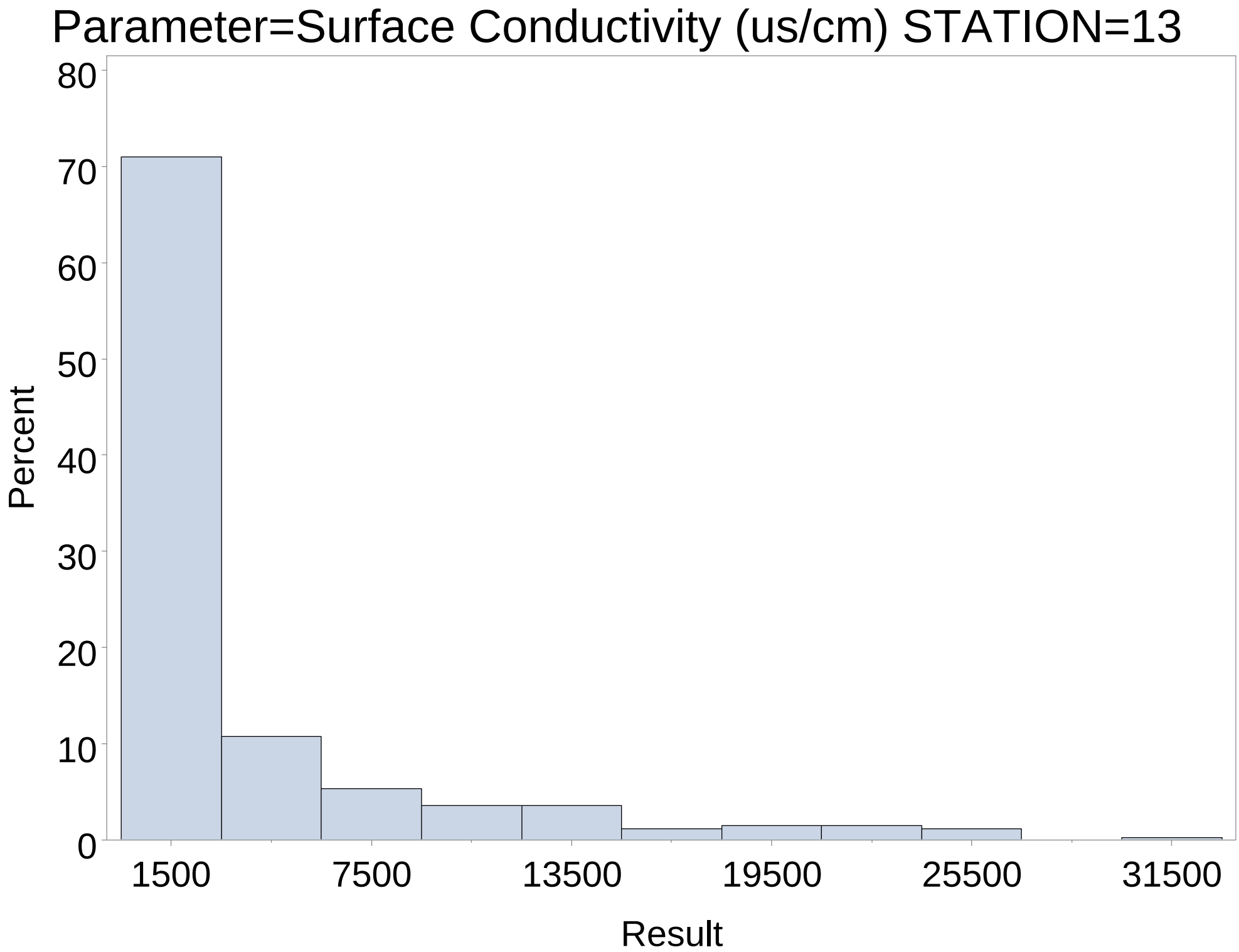
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.63168	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31479.0
99%	24641.0
95%	16660.0
90%	11282.0
75% Q3	3953.0
50% Median	887.5
25% Q1	519.0
10%	356.0
5%	309.0
1%	197.0
0% Min	53.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
53	18481	24540	18524
160	18337	24641	18464
188	18265	24776	18417
197	18528	25940	18322
203	18504	31479	18428


Parameter=Surface Conductivity (us/cm) STATION=13
Percent
80
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	4587.75676	**Sum Observations**	1527723
Std Deviation	6515.19132	**Variance**	42447717.9
Skewness	1.91992345	**Kurtosis**	3.22234271
Uncorrected SS	2.11015E10	**Corrected SS**	1.40926E10
Coeff Variation	142.012571	**Std Error Mean**	357.030285

Basic Statistical Measures			
Location		**Variability**	
Mean	4587.757	**Std Deviation**	6515
Median	1135.000	**Variance**	42447718
Mode	320.000	**Range**	33256
		Interquartile Range	6109

Note: The mode displayed is the smallest of 21 modes with a count of 2.

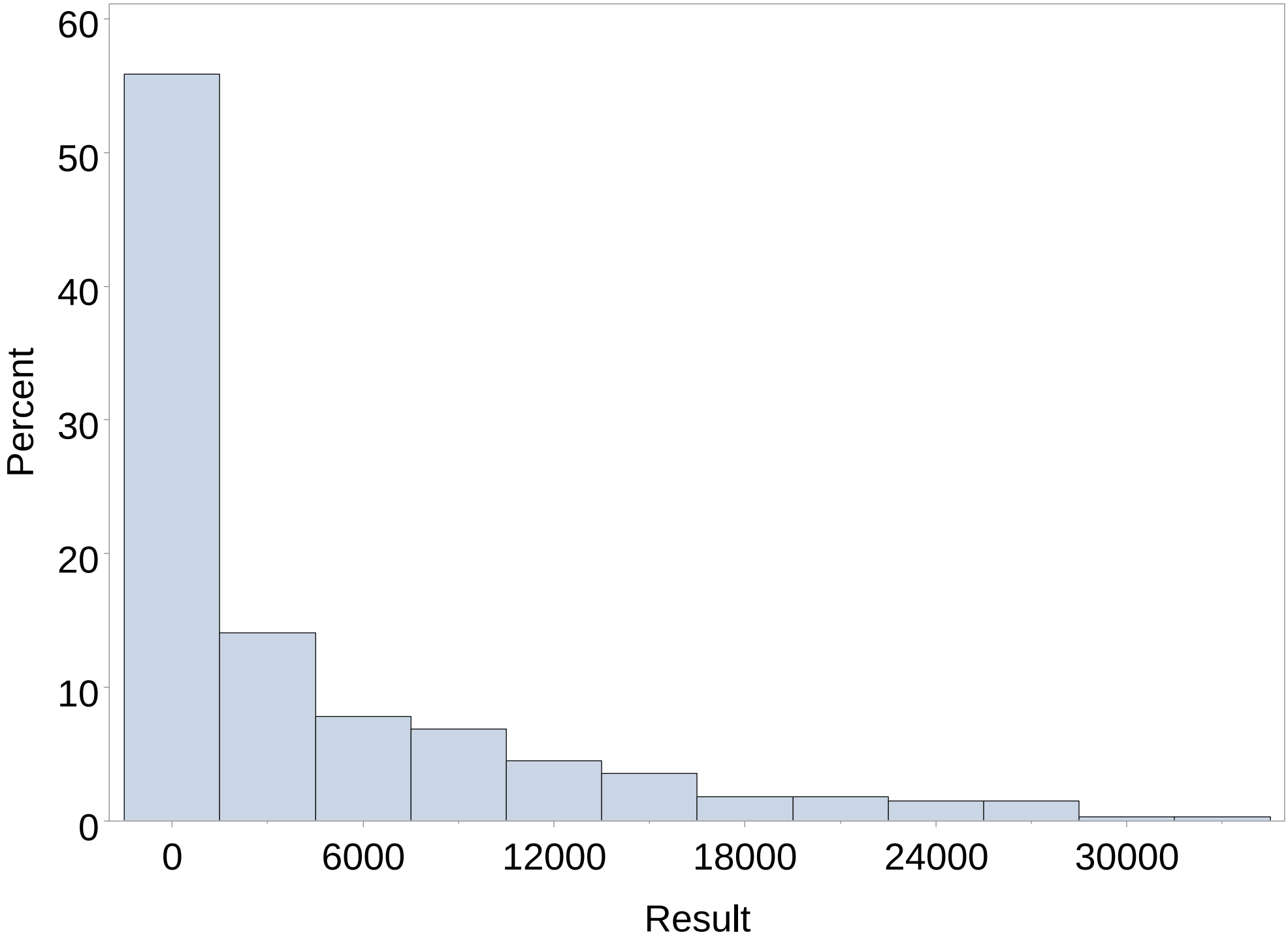
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.84977	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33309
99%	26900
95%	20150
90%	15005
75% Q3	6668
50% Median	1135
25% Q1	559
10%	366
5%	309
1%	200
0% Min	53

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
53	18814	25950	18656
170	18671	26900	18655
189	18599	26988	18797
200	18837	28643	18750
201	18861	33309	18761


Parameter=Surface Conductivity (us/cm) STATION=14
Percent
60
50
40
30
20
10
0
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=15

Moments			
N	331	**Sum Weights**	331
Mean	7362.42296	**Sum Observations**	2436962
Std Deviation	8670.27371	**Variance**	75173646.2
Skewness	1.34930642	**Kurtosis**	1.12522599
Uncorrected SS	4.27492E10	**Corrected SS**	2.48073E10
Coeff Variation	117.763863	**Std Error Mean**	476.561343

Basic Statistical Measures			
Location		**Variability**	
Mean	7362.423	**Std Deviation**	8670
Median	3309.000	**Variance**	75173646
Mode	253.000	**Range**	38107
		Interquartile Range	11843

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

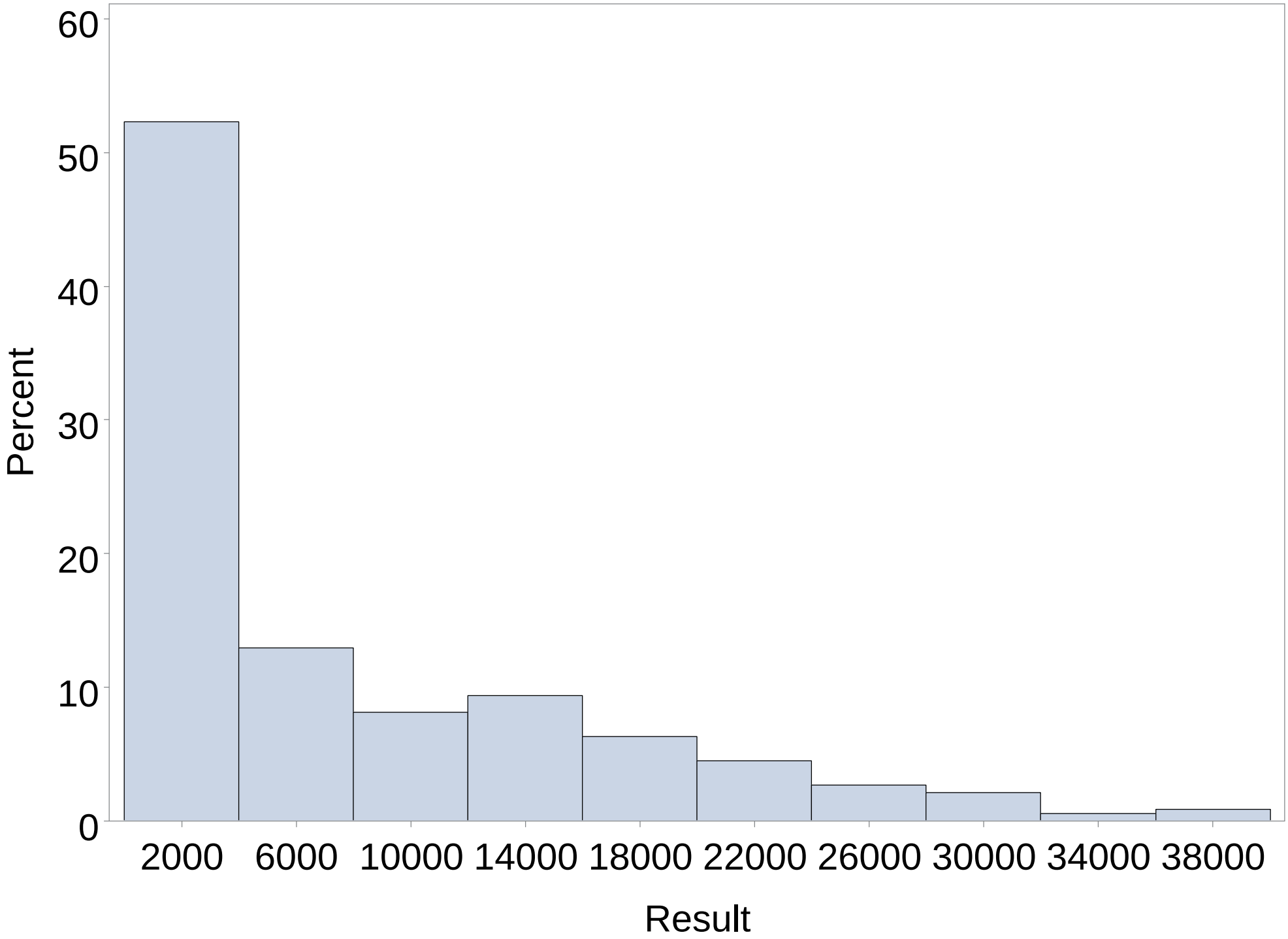
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.44906	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	38161
99%	33125
95%	26620
90%	20419
75% Q3	12475
50% Median	3309
25% Q1	632
10%	377
5%	309
1%	201
0% Min	54

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	19145	33089	19069
168	19002	33125	19128
191	18932	37136	19081
201	19168	37895	19092
202	19192	38161	19080


Parameter=Surface Conductivity (us/cm) STATION=15
Percent
60
50
40
30
20
10
0
2000
6000
10000
14000
18000
22000
26000
30000
34000
38000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=16

Moments			
N	332	**Sum Weights**	332
Mean	11383.8916	**Sum Observations**	3779452
Std Deviation	10925.917	**Variance**	119375663
Skewness	0.79567934	**Kurtosis**	-0.3053198
Uncorrected SS	8.25382E10	**Corrected SS**	3.95133E10
Coeff Variation	95.9769947	**Std Error Mean**	599.637598

Basic Statistical Measures			
Location		**Variability**	
Mean	11383.89	**Std Deviation**	10926
Median	8246.50	**Variance**	119375663
Mode	772.00	**Range**	46386
		Interquartile Range	18783

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

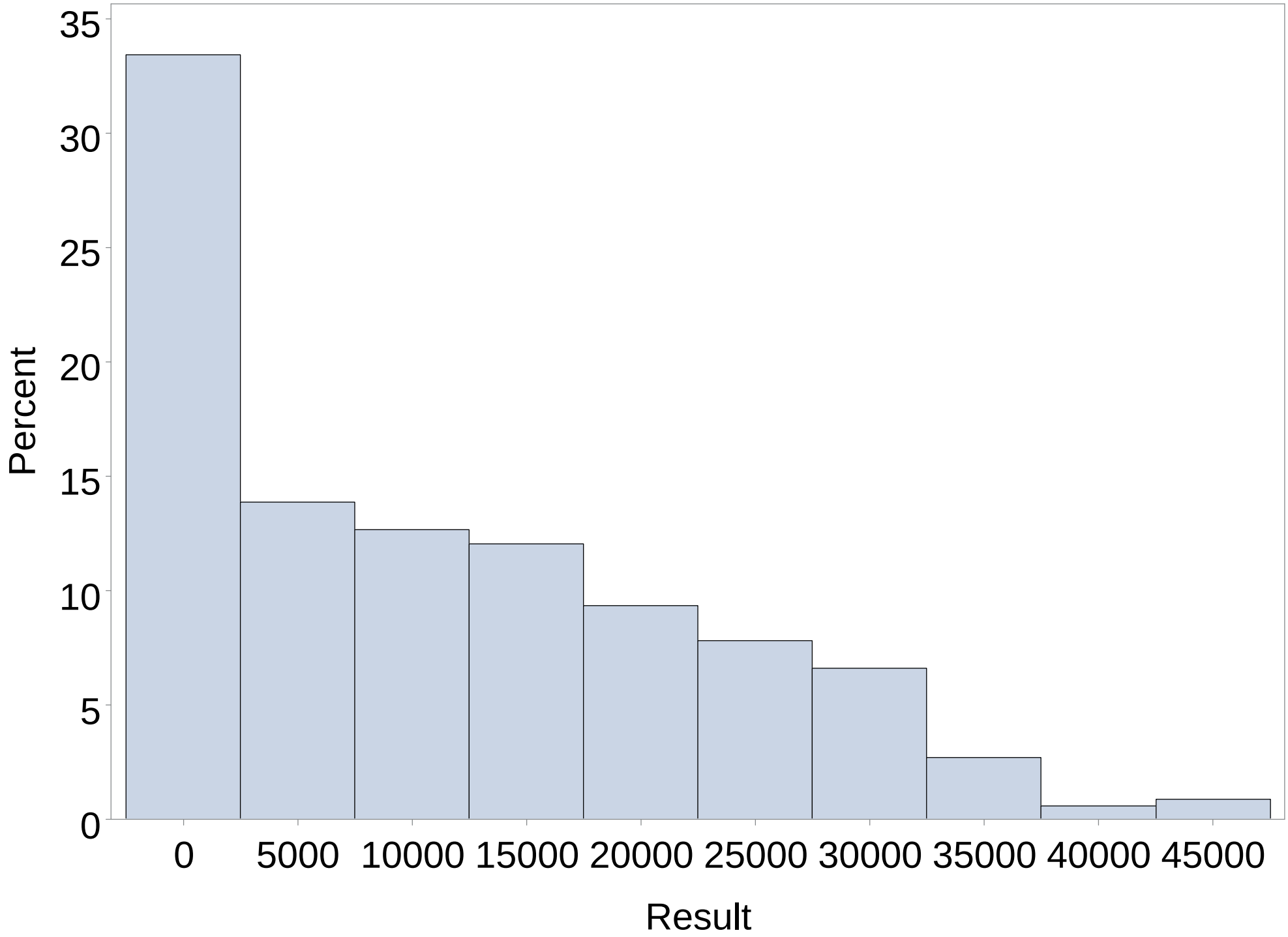
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.98462	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	46440.0
99%	40417.0
95%	31948.0
90%	27660.0
75% Q3	19773.0
50% Median	8246.5
25% Q1	990.0
10%	382.0
5%	310.0
1%	197.0
0% Min	54.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	19477	38440	19341
173	19334	40417	19401
190	19263	42770	19413
197	19262	42850	19424
202	19500	46440	19412


Parameter=Surface Conductivity (us/cm) STATION=16
Percent
35
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=17

Moments			
N	330	**Sum Weights**	330
Mean	13231.0182	**Sum Observations**	4366236
Std Deviation	11627.9125	**Variance**	135208349
Skewness	0.60884802	**Kurtosis**	-0.5661558
Uncorrected SS	1.02253E11	**Corrected SS**	4.44835E10
Coeff Variation	87.8837316	**Std Error Mean**	640.095516

Basic Statistical Measures			
Location		**Variability**	
Mean	13231.02	**Std Deviation**	11628
Median	11100.00	**Variance**	135208349
Mode	373.00	**Range**	49616
		Interquartile Range	20960

Note: The mode displayed is the smallest of 8 modes with a count of 2.

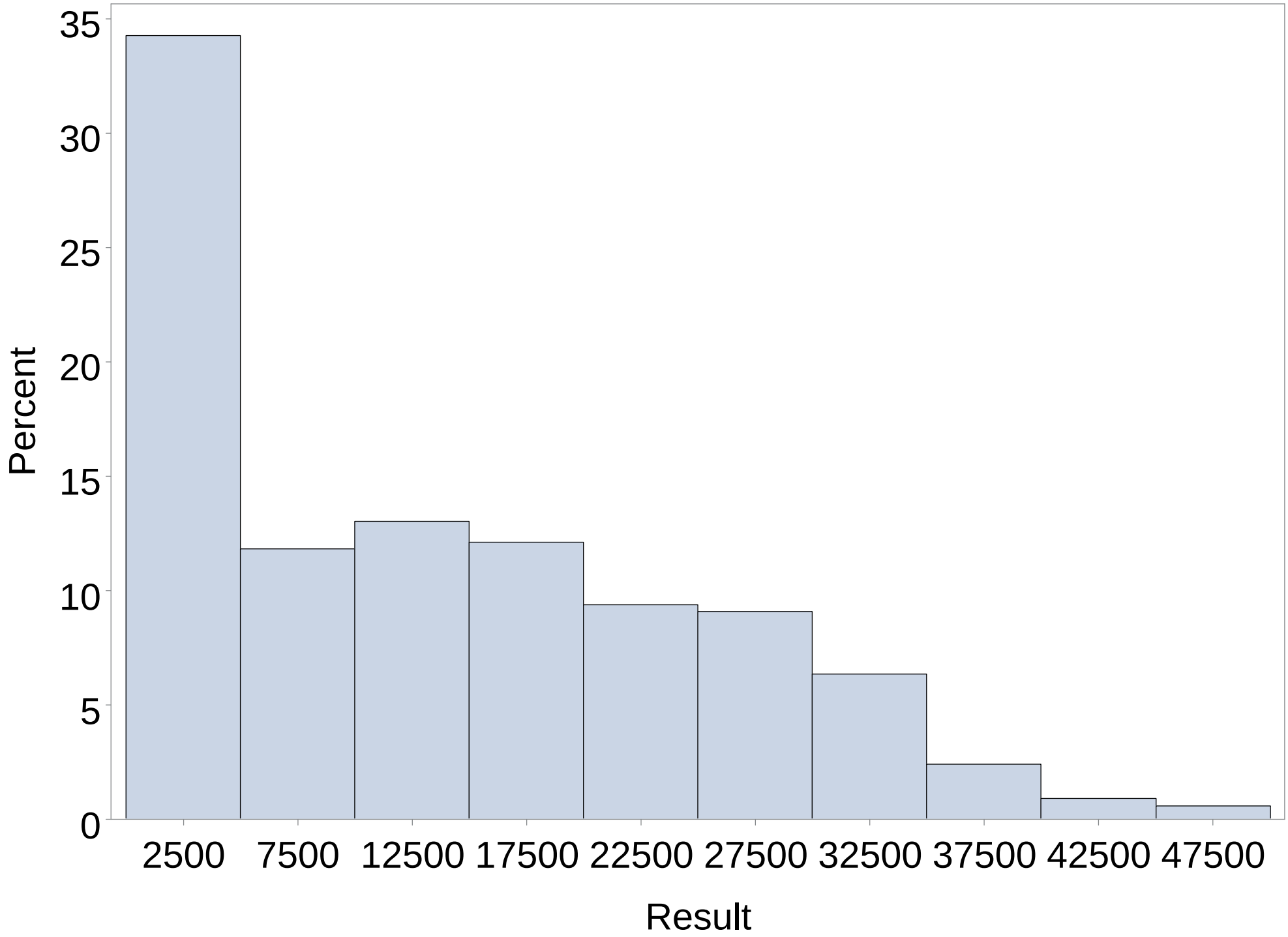
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.67038	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	49670.0
99%	43328.0
95%	33910.0
90%	30260.0
75% Q3	22500.0
50% Median	11100.0
25% Q1	1540.0
10%	394.5
5%	334.0
1%	206.0
0% Min	54.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54	19807	40430	19672
166	19665	43328	19732
193	19595	43995	19754
206	19830	45642	19743
207	19854	49670	19742


Parameter=Surface Conductivity (us/cm) STATION=17
Percent
0
5
10
15
20
25
30
35
2500
7500
12500
17500
22500
27500
32500
37500
42500
47500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=18

Moments			
N	328	**Sum Weights**	328
Mean	10181.3049	**Sum Observations**	3339468
Std Deviation	10868.9281	**Variance**	118133599
Skewness	1.14942733	**Kurtosis**	1.0872623
Uncorrected SS	7.26298E10	**Corrected SS**	3.86297E10
Coeff Variation	106.753783	**Std Error Mean**	600.13616

Basic Statistical Measures			
Location		**Variability**	
Mean	10181.30	**Std Deviation**	10869
Median	6419.50	**Variance**	118133599
Mode	208.00	**Range**	61127
		Interquartile Range	16466

Note: The mode displayed is the smallest of 14 modes with a count of 2.

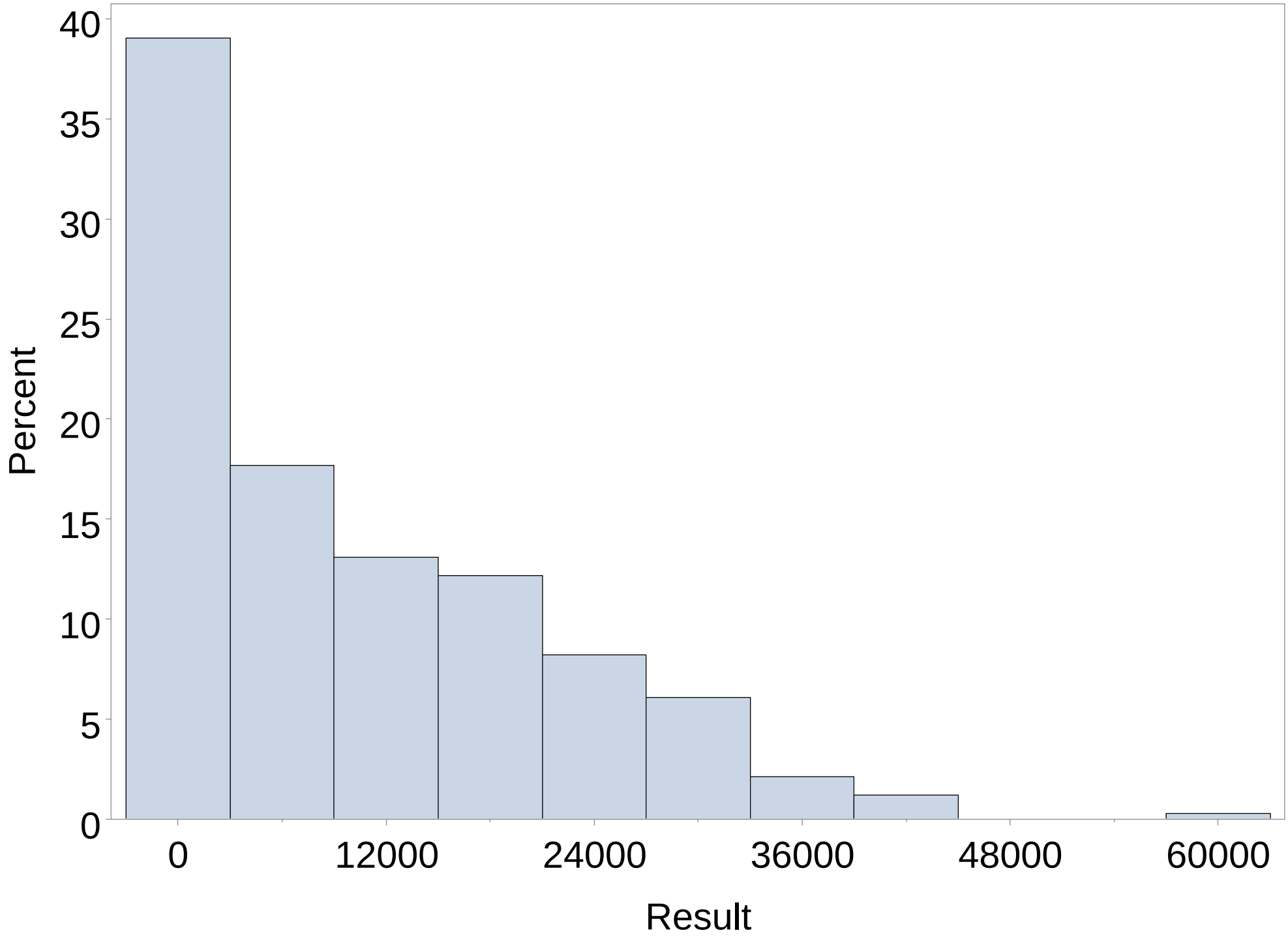
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.96499	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	61200.0
99%	41599.0
95%	31000.0
90%	26820.0
75% Q3	17026.5
50% Median	6419.5
25% Q1	561.0
10%	266.0
5%	209.0
1%	139.0
0% Min	73.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
73	20136	39164	20061
121	20030	41599	20072
128	19994	41601	20083
139	20029	44035	20071
152	19924	61200	20185


Parameter=Surface Conductivity (us/cm) STATION=18
Percent
40
35
30
25
20
15
10
5
0
0
12000
24000
36000
48000
60000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=19

Moments			
N	329	**Sum Weights**	329
Mean	17267.0426	**Sum Observations**	5680857
Std Deviation	12757.2925	**Variance**	162748513
Skewness	0.26044961	**Kurtosis**	-0.8910343
Uncorrected SS	1.51473E11	**Corrected SS**	5.33815E10
Coeff Variation	73.8823253	**Std Error Mean**	703.332305

Basic Statistical Measures			
Location		**Variability**	
Mean	17267.04	**Std Deviation**	12757
Median	17272.00	**Variance**	162748513
Mode	17272.00	**Range**	55311
		Interquartile Range	22542

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

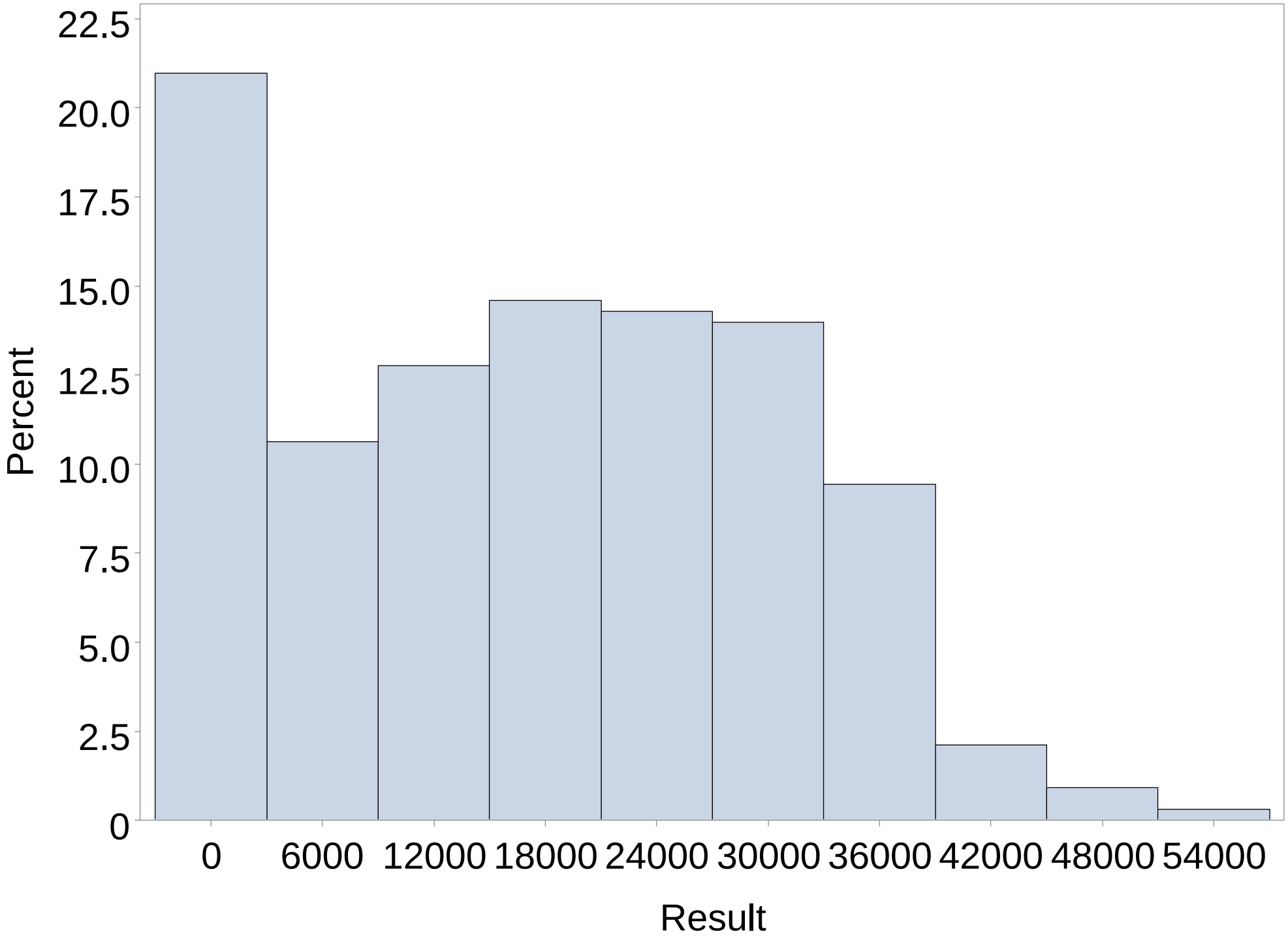
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.55033	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	55371
99%	47400
95%	37760
90%	34886
75% Q3	27622
50% Median	17272
25% Q1	5080
10%	382
5%	284
1%	158
0% Min	60

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
60	20464	44946	20411
149	20325	47400	20332
157	20253	47419	20390
158	20511	49138	20401
191	20360	55371	20400


Parameter=Surface Conductivity (us/cm) STATION=19
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
6000
12000
18000
24000
30000
36000
42000
48000
54000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=22

Moments			
N	1	Sum Weights	1
Mean	680	Sum Observations	680
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	462400	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	680.0000	Std Deviation	.
Median	680.0000	Variance	.
Mode	680.0000	Range	0
		Interquartile Range	0

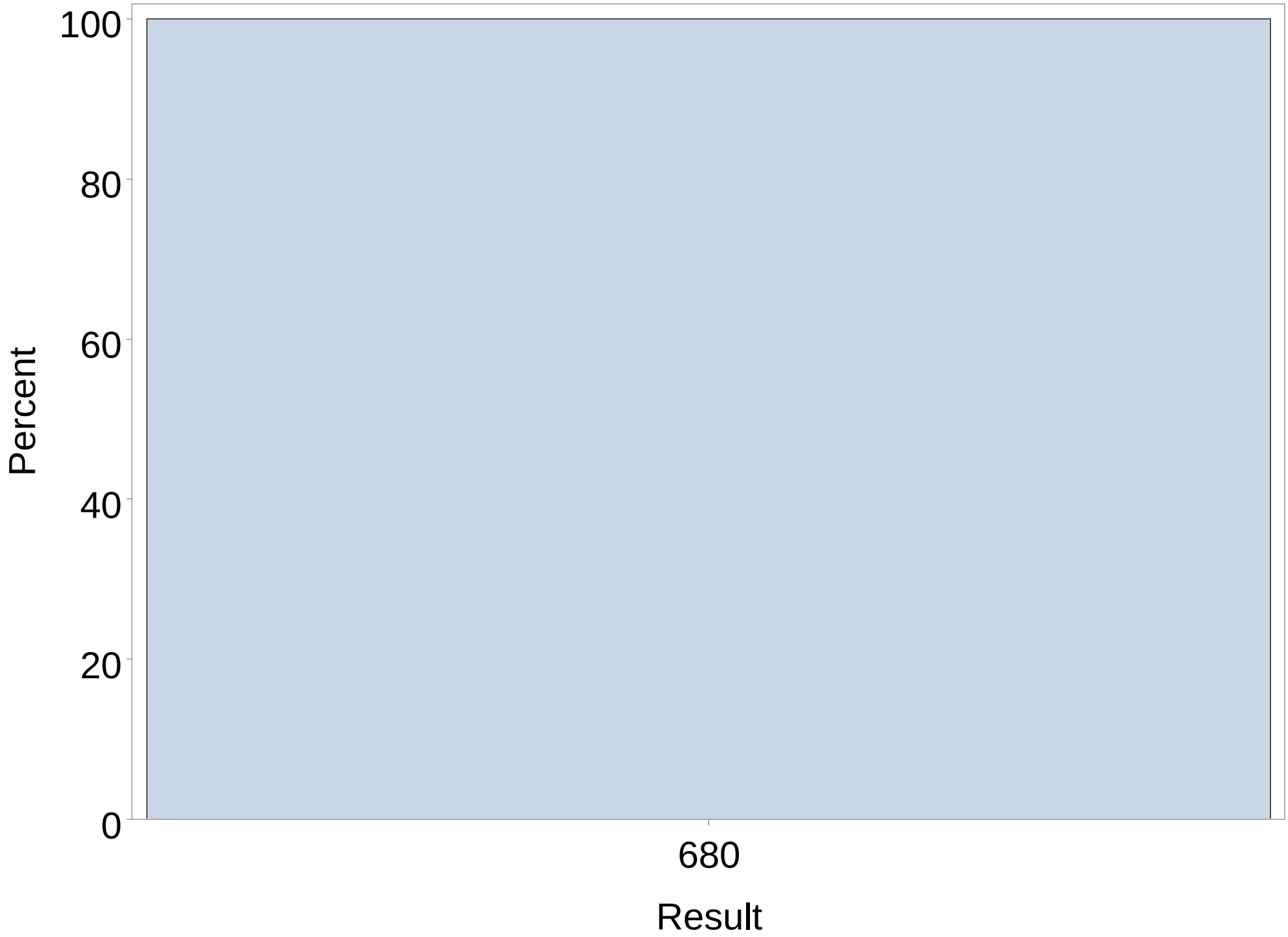
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	680
99%	680
95%	680
90%	680
75% Q3	680
50% Median	680
25% Q1	680
10%	680
5%	680
1%	680
0% Min	680

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Conductivity (us/cm) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
680	20527	680	20527


Parameter=Surface Conductivity (us/cm) STATION=22
100
80
60
40
20
0
Percent
680
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	737.628755	**Sum Observations**	247105.633
Std Deviation	611.337824	**Variance**	373733.935
Skewness	9.02026404	**Kurtosis**	106.255741
Uncorrected SS	307099354	**Corrected SS**	124827134
Coeff Variation	82.878795	**Std Error Mean**	33.4009534

Basic Statistical Measures			
Location		**Variability**	
Mean	737.6288	**Std Deviation**	611.33782
Median	674.4444	**Variance**	373734
Mode	351.0000	**Range**	8683
		Interquartile Range	330.26786

Note: The mode displayed is the smallest of 8 modes with a count of 2.

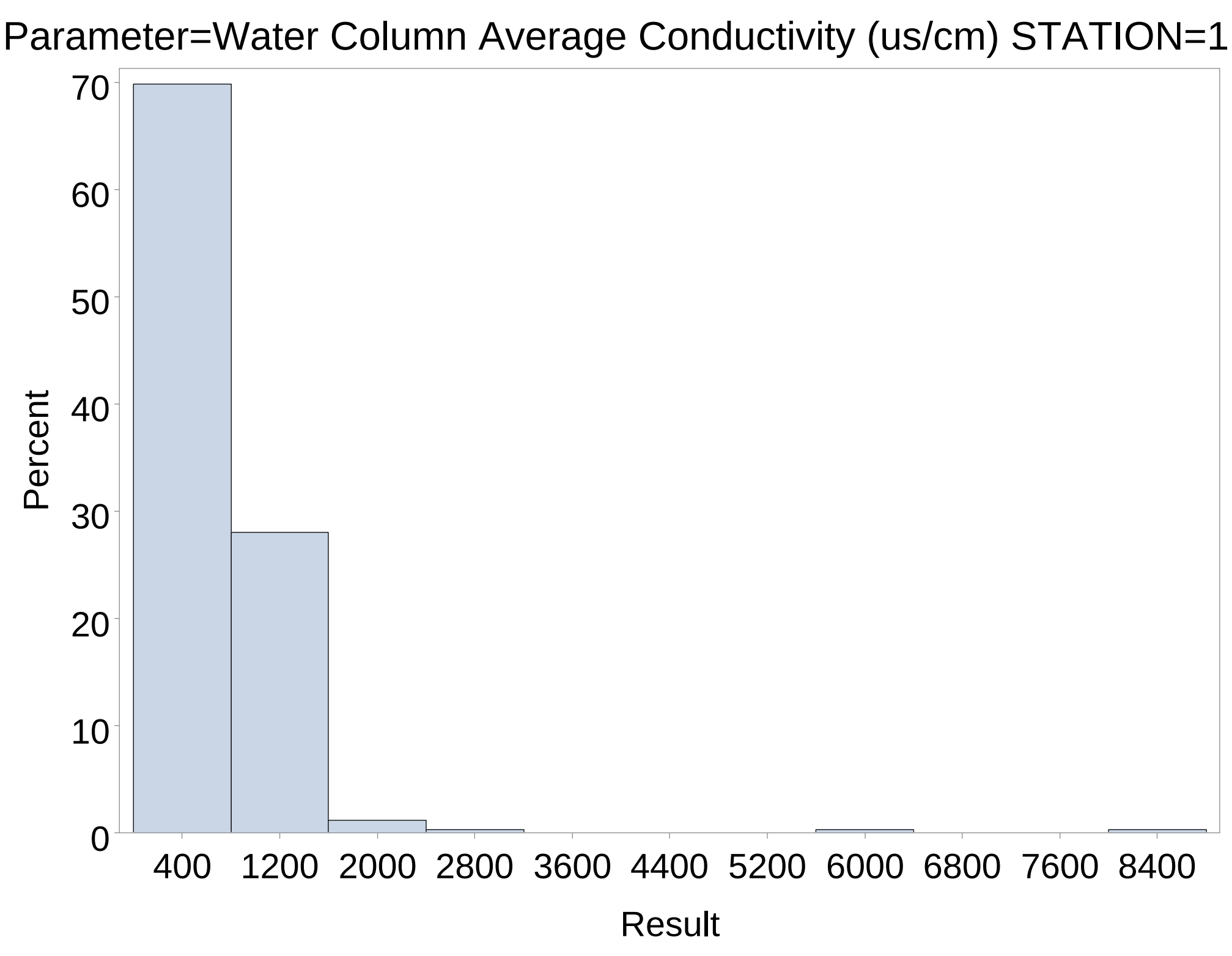
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.08406	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8750.000
99%	2253.286
95%	1289.714
90%	1017.444
75% Q3	837.143
50% Median	674.444
25% Q1	506.875
10%	343.222
5%	284.375
1%	210.636
0% Min	67.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
67.000	20800	1872.60	20649
173.875	20583	2253.29	20842
177.800	20847	2490.71	20839
210.636	20823	6158.33	20620
213.250	20655	8750.00	20567


Parameter=Water Column Average Conductivity (us/cm) STATION=1
Percent
70
60
50
40
30
20
10
0
400
1200
2000
2800
3600
4400
5200
6000
6800
7600
8400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	938.000096	**Sum Observations**	312354.032
Std Deviation	415.801187	**Variance**	172890.627
Skewness	2.92528971	**Kurtosis**	25.3355356
Uncorrected SS	350387800	**Corrected SS**	57399688.3
Coeff Variation	44.3284803	**Std Error Mean**	22.7857647

Basic Statistical Measures			
Location		**Variability**	
Mean	938.0001	**Std Deviation**	415.80119
Median	932.3750	**Variance**	172891
Mode	603.0000	**Range**	4869
		Interquartile Range	463.04286

Note: The mode displayed is the smallest of 4 modes with a count of 2.

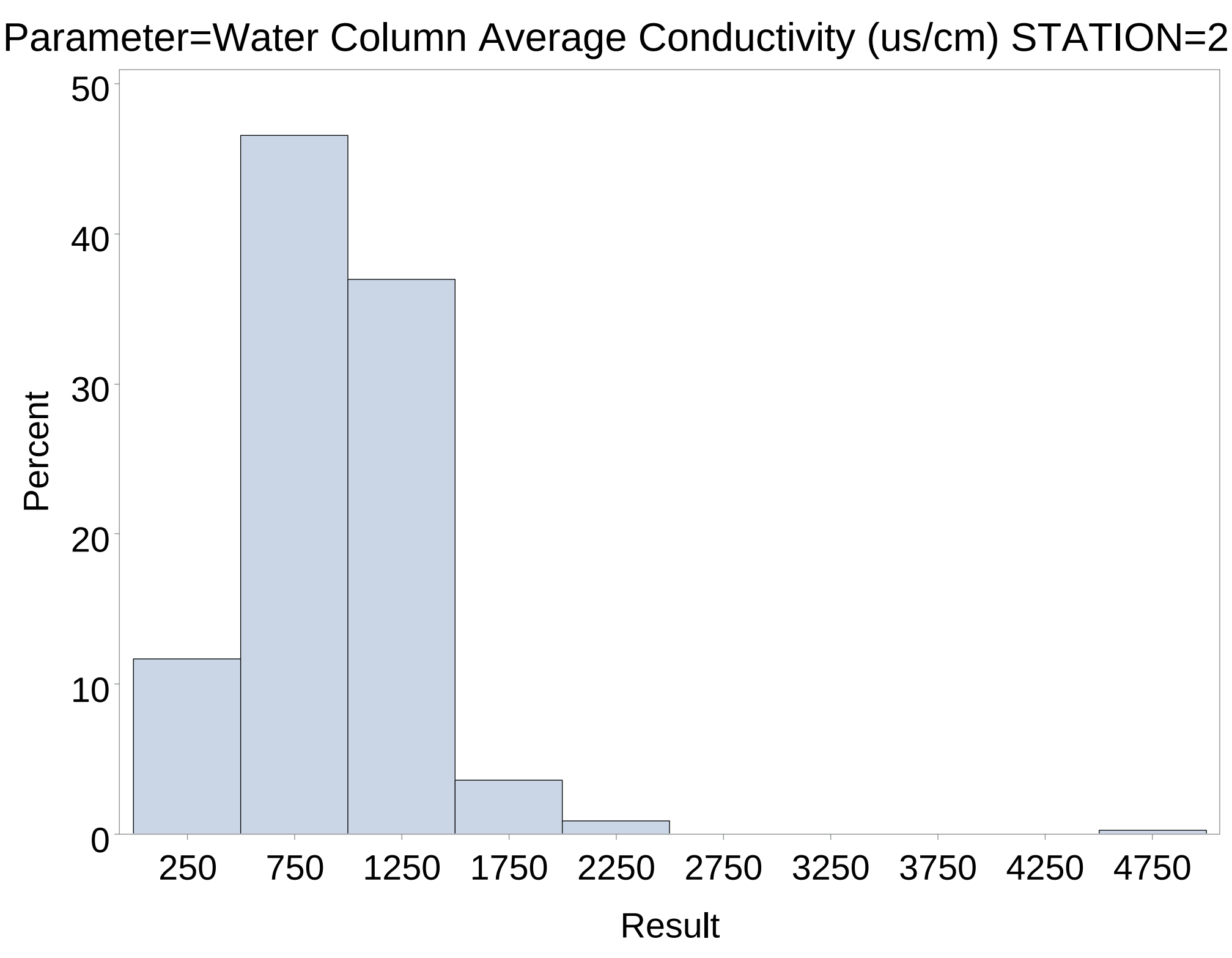
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.16606	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4937.500
99%	2154.909
95%	1498.333
90%	1378.750
75% Q3	1131.143
50% Median	932.375
25% Q1	668.100
10%	460.333
5%	356.625
1%	270.000
0% Min	69.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
69.000	21133	1885.00	20996
171.800	20989	2154.91	21141
249.875	21167	2163.14	20952
270.000	21048	2487.00	20950
272.000	21180	4937.50	20955


Parameter=Water Column Average Conductivity (us/cm) STATION=2
Percent
50
40
30
20
10
0
250
750
1250
1750
2250
2750
3250
3750
4250
4750
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	778.37368	**Sum Observations**	259198.435
Std Deviation	647.867416	**Variance**	419732.189
Skewness	9.43382655	**Kurtosis**	108.102237
Uncorrected SS	341104327	**Corrected SS**	139351087
Coeff Variation	83.2334691	**Std Error Mean**	35.5029157

Basic Statistical Measures			
Location		**Variability**	
Mean	778.3737	**Std Deviation**	647.86742
Median	717.0000	**Variance**	419732
Mode	352.0000	**Range**	8639
		Interquartile Range	371.00000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

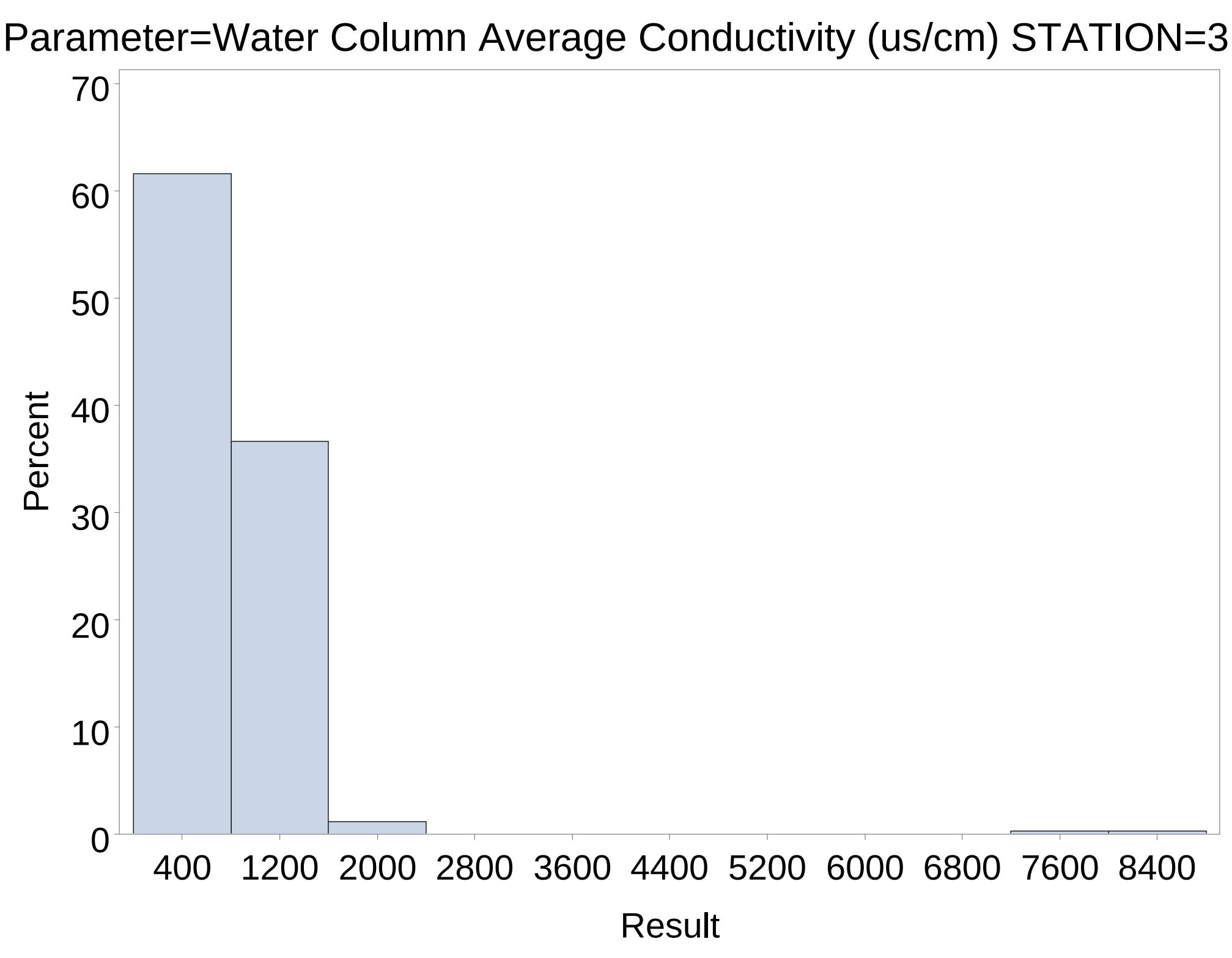
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.92422	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8692.500
99%	1755.750
95%	1253.000
90%	1071.000
75% Q3	899.000
50% Median	717.000
25% Q1	528.000
10%	383.667
5%	321.000
1%	244.571
0% Min	54.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.000	21466	1652.50	21329
224.200	21251	1755.75	21453
233.000	21513	2012.00	21322
244.571	21368	7815.00	21447
249.400	21489	8692.50	21235


Parameter=Water Column Average Conductivity (us/cm) STATION=3
Percent
70
60
50
40
30
20
10
0
400
1200
2000
2800
3600
4400
5200
6000
6800
7600
8400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=4

Moments			
N	334	**Sum Weights**	334
Mean	3652.08442	**Sum Observations**	1219796.2
Std Deviation	5754.34477	**Variance**	33112483.8
Skewness	2.10773033	**Kurtosis**	3.87873938
Uncorrected SS	1.54813E10	**Corrected SS**	1.10265E10
Coeff Variation	157.563301	**Std Error Mean**	314.863737

Basic Statistical Measures			
Location		**Variability**	
Mean	3652.084	**Std Deviation**	5754
Median	803.167	**Variance**	33112484
Mode	354.000	**Range**	30386
		Interquartile Range	3294

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

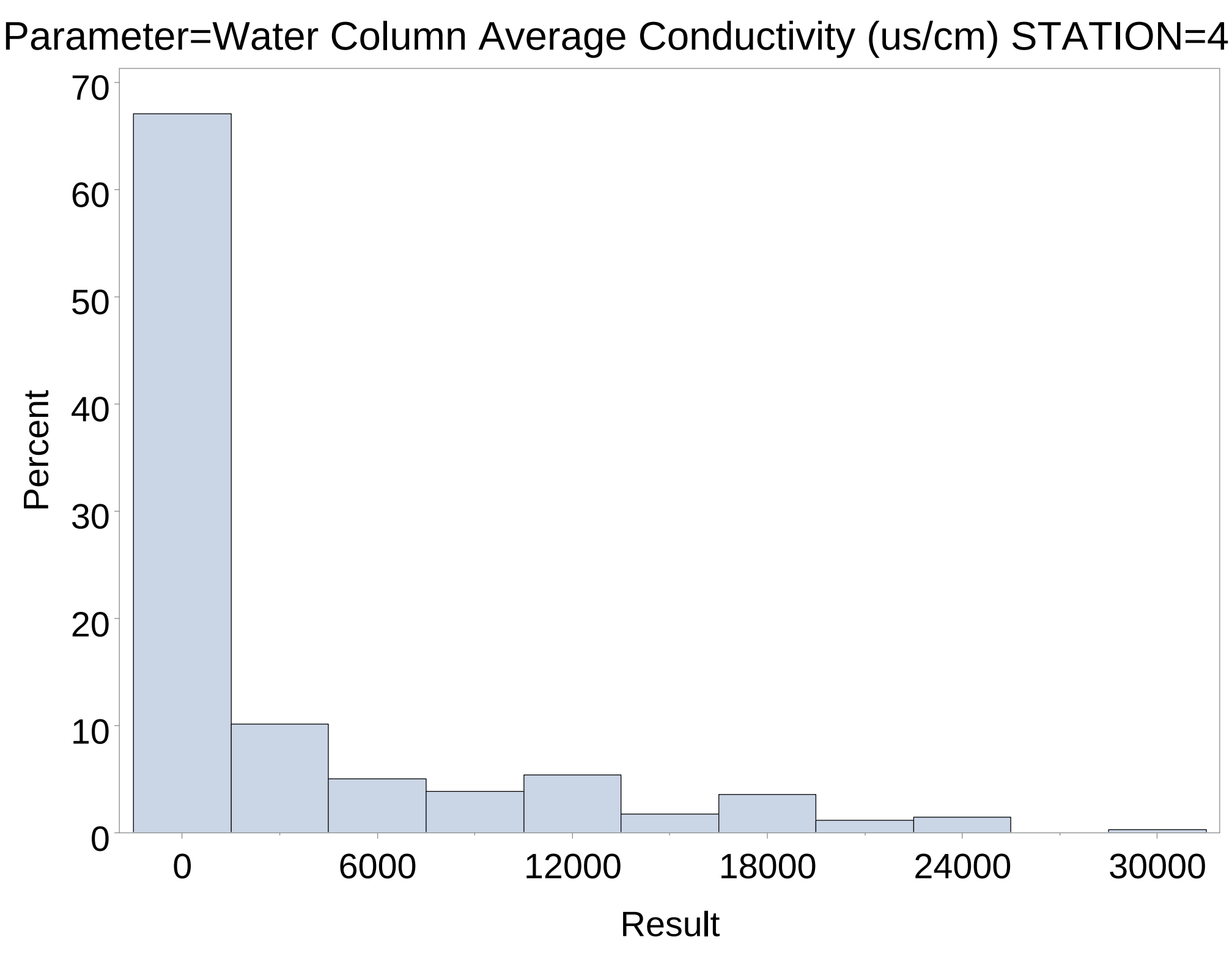
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.59894	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30446.600
99%	24128.200
95%	17822.667
90%	12408.000
75% Q3	3822.000
50% Median	803.167
25% Q1	528.000
10%	360.333
5%	305.571
1%	199.000
0% Min	60.400

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
60.400	21800	23958.0	21736
183.333	21847	24128.2	21843
192.250	21656	24305.0	21640
199.000	21823	24868.0	21641
208.500	21584	30446.6	21747


Parameter=Water Column Average Conductivity (us/cm) STATION=4
70
60
50
40
30
20
10
0
Percent
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	4305.45091	**Sum Observations**	1442326.05
Std Deviation	6292.55263	**Variance**	39596218.6
Skewness	1.97112311	**Kurtosis**	3.37832138
Uncorrected SS	1.9435E10	**Corrected SS**	1.32251E10
Coeff Variation	146.153162	**Std Error Mean**	343.798877

Basic Statistical Measures			
Location		**Variability**	
Mean	4305.451	**Std Deviation**	6293
Median	1000.500	**Variance**	39596219
Mode	540.167	**Range**	32164
		Interquartile Range	5154

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

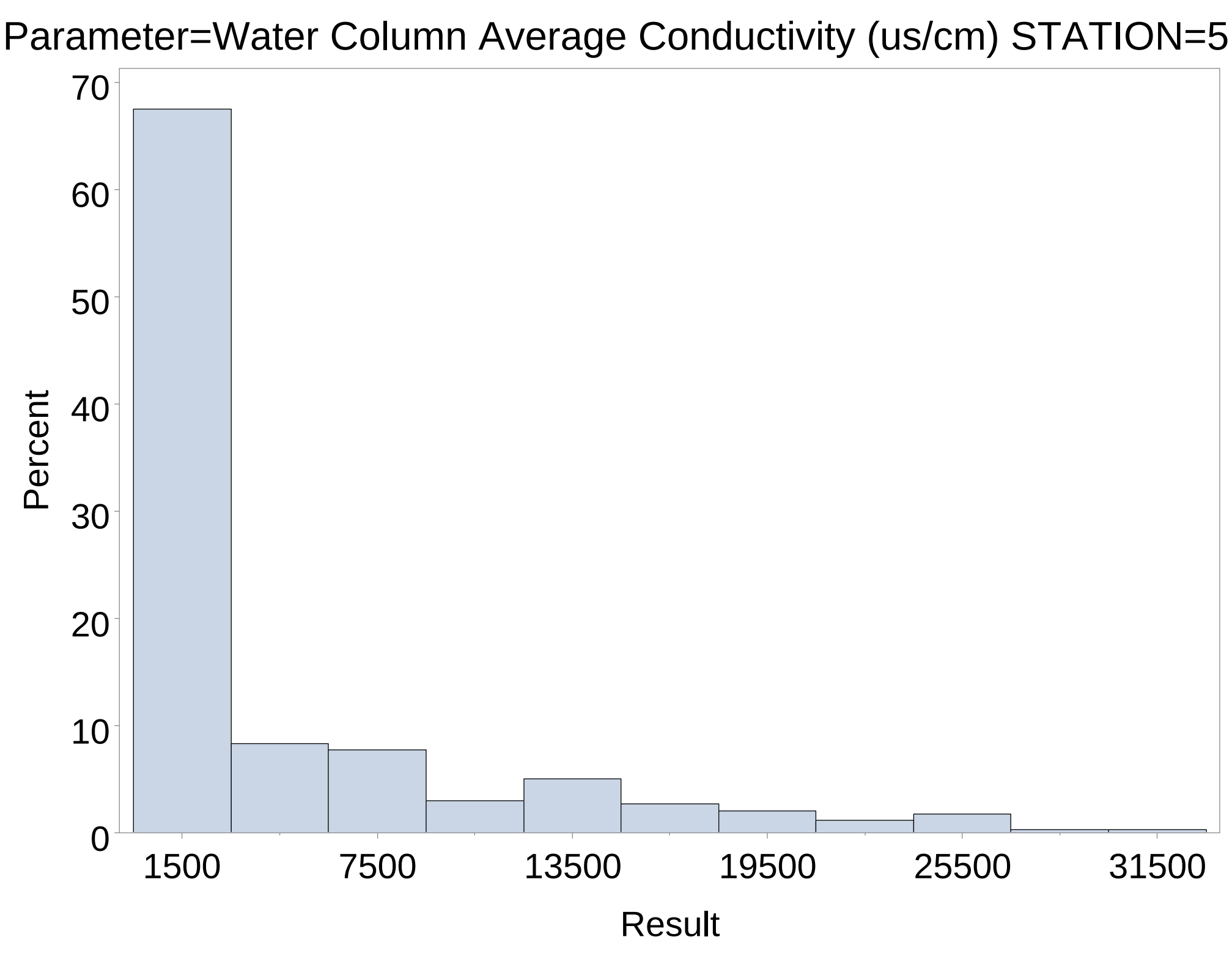
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.52317	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32216.000
99%	26075.000
95%	19252.500
90%	14178.000
75% Q3	5683.333
50% Median	1000.500
25% Q1	529.833
10%	366.286
5%	306.800
1%	198.000
0% Min	52.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
52.000	22135	25757.4	22178
168.875	21991	26075.0	21976
188.571	21919	26143.8	22118
198.000	22182	27465.3	22071
200.800	22158	32216.0	22082


Parameter=Water Column Average Conductivity (us/cm) STATION=5
Percent
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	6328.90859	**Sum Observations**	2107526.56
Std Deviation	8101.29372	**Variance**	65630960
Skewness	1.50061456	**Kurtosis**	1.5165538
Uncorrected SS	3.51278E10	**Corrected SS**	2.17895E10
Coeff Variation	128.004594	**Std Error Mean**	443.948161

Basic Statistical Measures			
Location		**Variability**	
Mean	6328.909	**Std Deviation**	8101
Median	1859.250	**Variance**	65630960
Mode	244.000	**Range**	36569
		Interquartile Range	9897

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

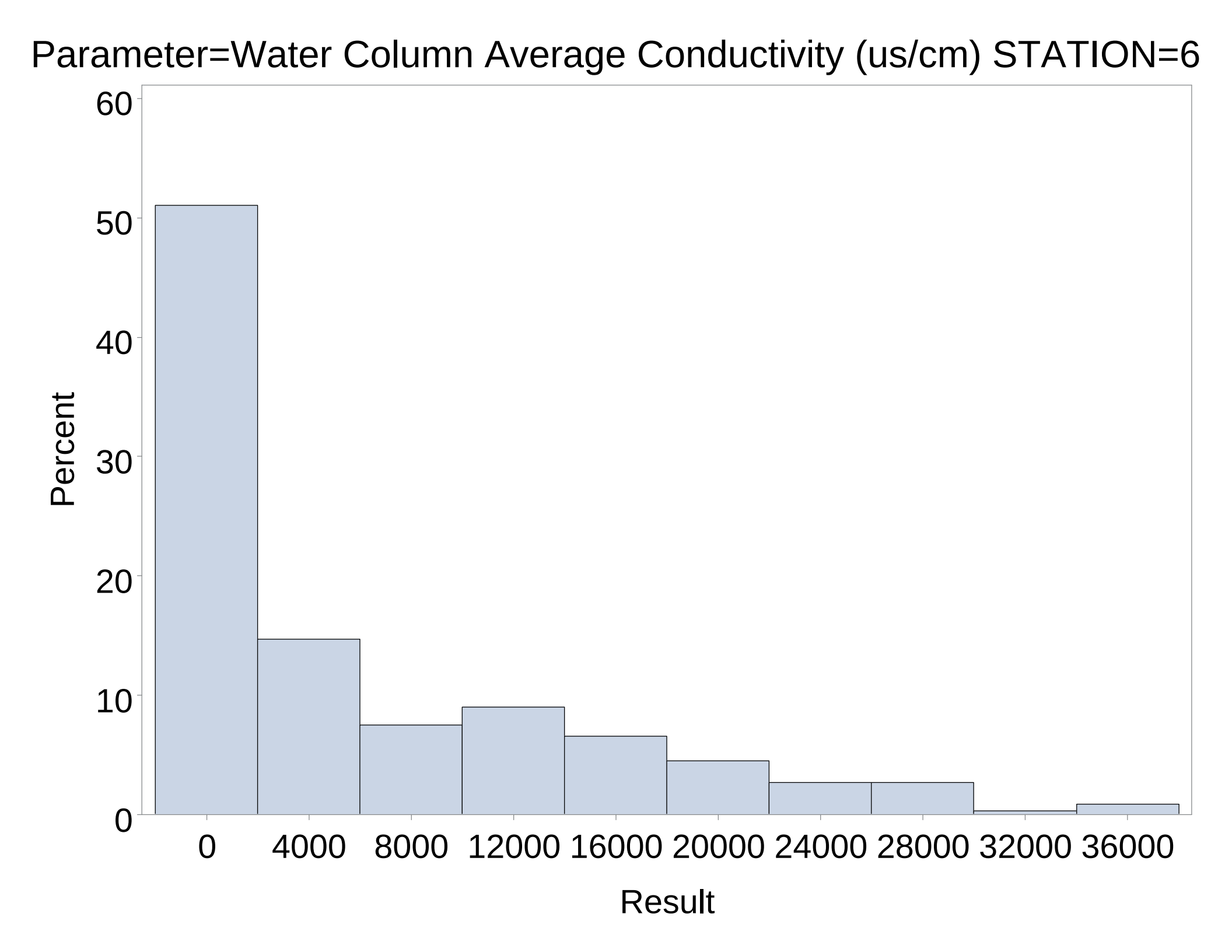
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.25596	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	36623.00
99%	31248.25
95%	24828.75
90%	18668.00
75% Q3	10477.50
50% Median	1859.25
25% Q1	580.75
10%	367.25
5%	312.25
1%	200.20
0% Min	54.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.0	22468	29195.4	22511
170.4	22325	31248.3	22451
190.0	22253	34957.3	22404
200.2	22491	35102.0	22403
202.0	22515	36623.0	22415


Parameter=Water Column Average Conductivity (us/cm) STATION=6
Percent
60
50
40
30
20
10
0
0
4000
8000
12000
16000
20000
24000
28000
32000
36000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	9904.26922	**Sum Observations**	3298121.65
Std Deviation	10057.9719	**Variance**	101162799
Skewness	0.95944602	**Kurtosis**	0.03644973
Uncorrected SS	6.62515E10	**Corrected SS**	3.3586E10
Coeff Variation	101.551883	**Std Error Mean**	551.173465

Basic Statistical Measures			
Location		**Variability**	
Mean	9904.269	**Std Deviation**	10058
Median	7120.000	**Variance**	101162799
Mode	8362.667	**Range**	42404
		Interquartile Range	16213

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

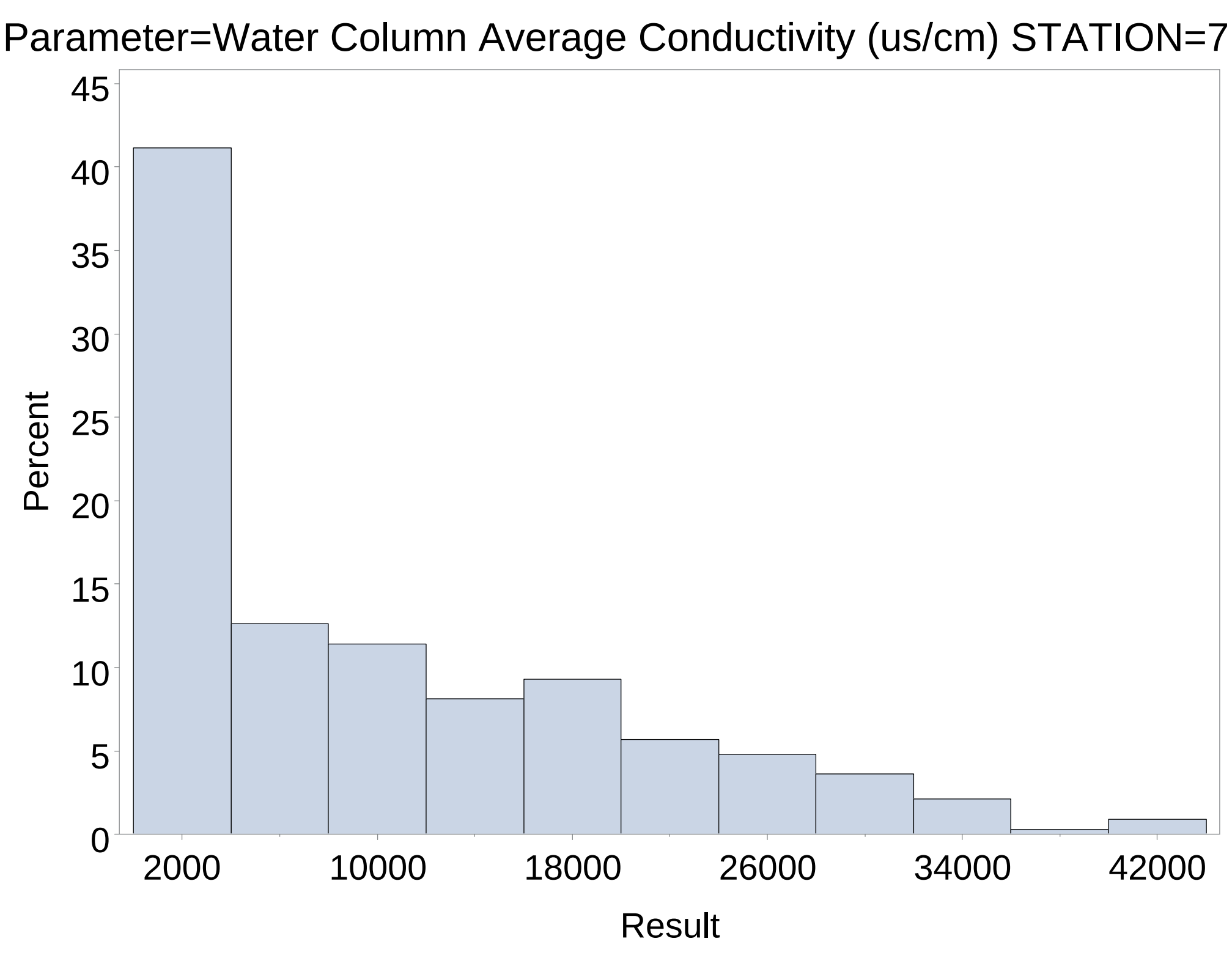
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.96942	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	42458.333
99%	37244.500
95%	30394.000
90%	26026.000
75% Q3	16925.000
50% Median	7120.000
25% Q1	712.200
10%	379.667
5%	271.000
1%	200.000
0% Min	54.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.000	22801	35274.0	22784
152.400	22658	37244.5	22725
191.833	22586	40244.8	22748
200.000	22824	40979.2	22737
204.000	22848	42458.3	22736


Parameter=Water Column Average Conductivity (us/cm) STATION=7
Percent
45
40
35
30
25
20
15
10
5
0
2000
10000
18000
26000
34000
42000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	11780.4011	**Sum Observations**	3922873.56
Std Deviation	11142.8859	**Variance**	124163906
Skewness	0.7177335	**Kurtosis**	-0.5101646
Uncorrected SS	8.74354E10	**Corrected SS**	4.12224E10
Coeff Variation	94.5883405	**Std Error Mean**	610.626385

Basic Statistical Measures			
Location		**Variability**	
Mean	11780.40	**Std Deviation**	11143
Median	8634.67	**Variance**	124163906
Mode	275.00	**Range**	46951
		Interquartile Range	19511

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

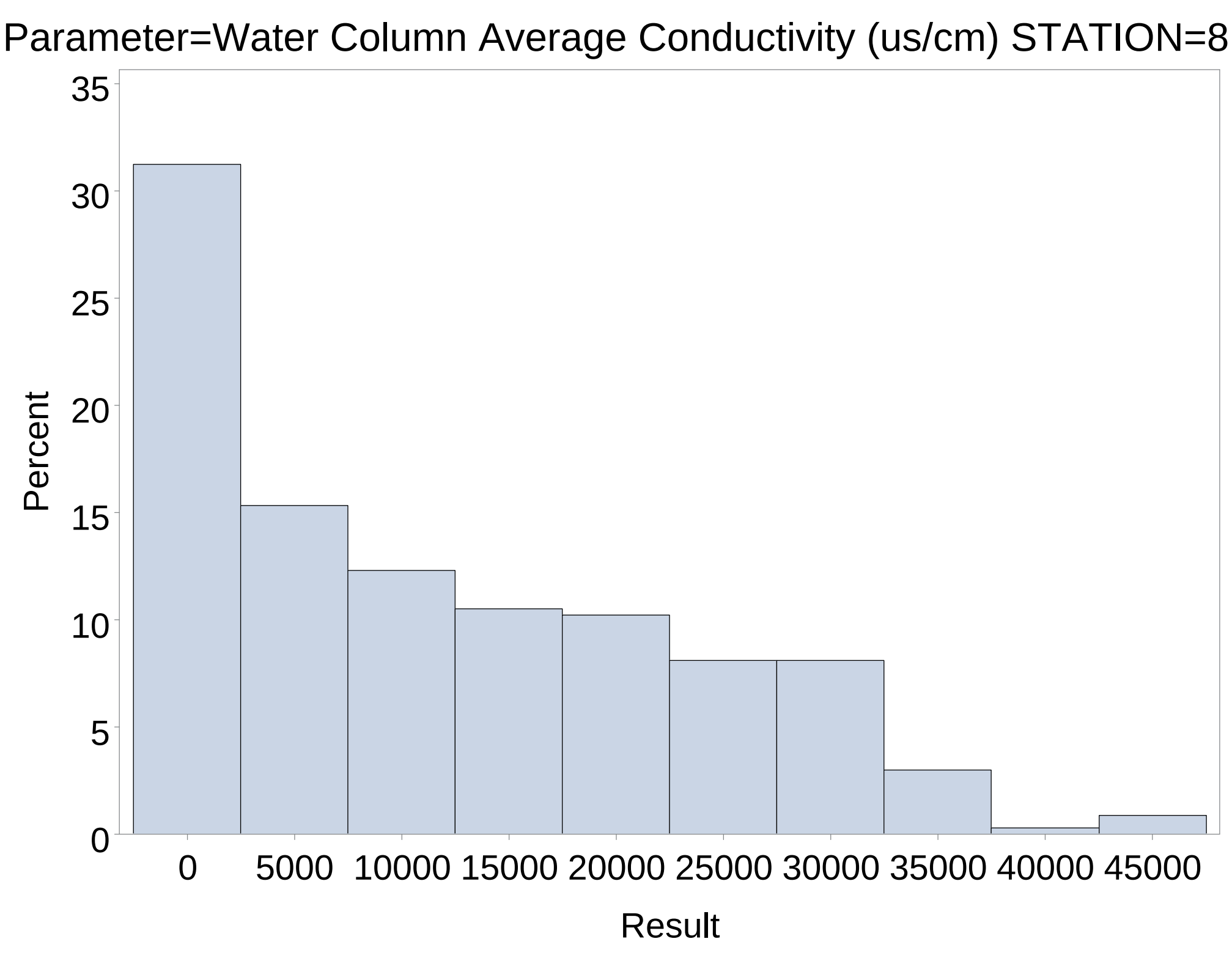
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.29232	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	47023.667
99%	39804.333
95%	32234.500
90%	29071.667
75% Q3	20371.000
50% Median	8634.667
25% Q1	860.000
10%	274.333
5%	215.333
1%	140.667
0% Min	73.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
73.000	23134	35645.0	23045
117.167	23027	39804.3	23058
140.000	23026	42523.3	23081
140.667	22991	43615.3	23070
153.200	22919	47023.7	23069


Parameter=Water Column Average Conductivity (us/cm) STATION=8
Percent
35
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	16494.3838	**Sum Observations**	5492629.79
Std Deviation	11997.2031	**Variance**	143932882
Skewness	0.24837269	**Kurtosis**	-0.792968
Uncorrected SS	1.38383E11	**Corrected SS**	4.77857E10
Coeff Variation	72.7350791	**Std Error Mean**	657.442679

Basic Statistical Measures			
Location		**Variability**	
Mean	16494.38	**Std Deviation**	11997
Median	16427.50	**Variance**	143932882
Mode	15873.14	**Range**	52393
		Interquartile Range	20741

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

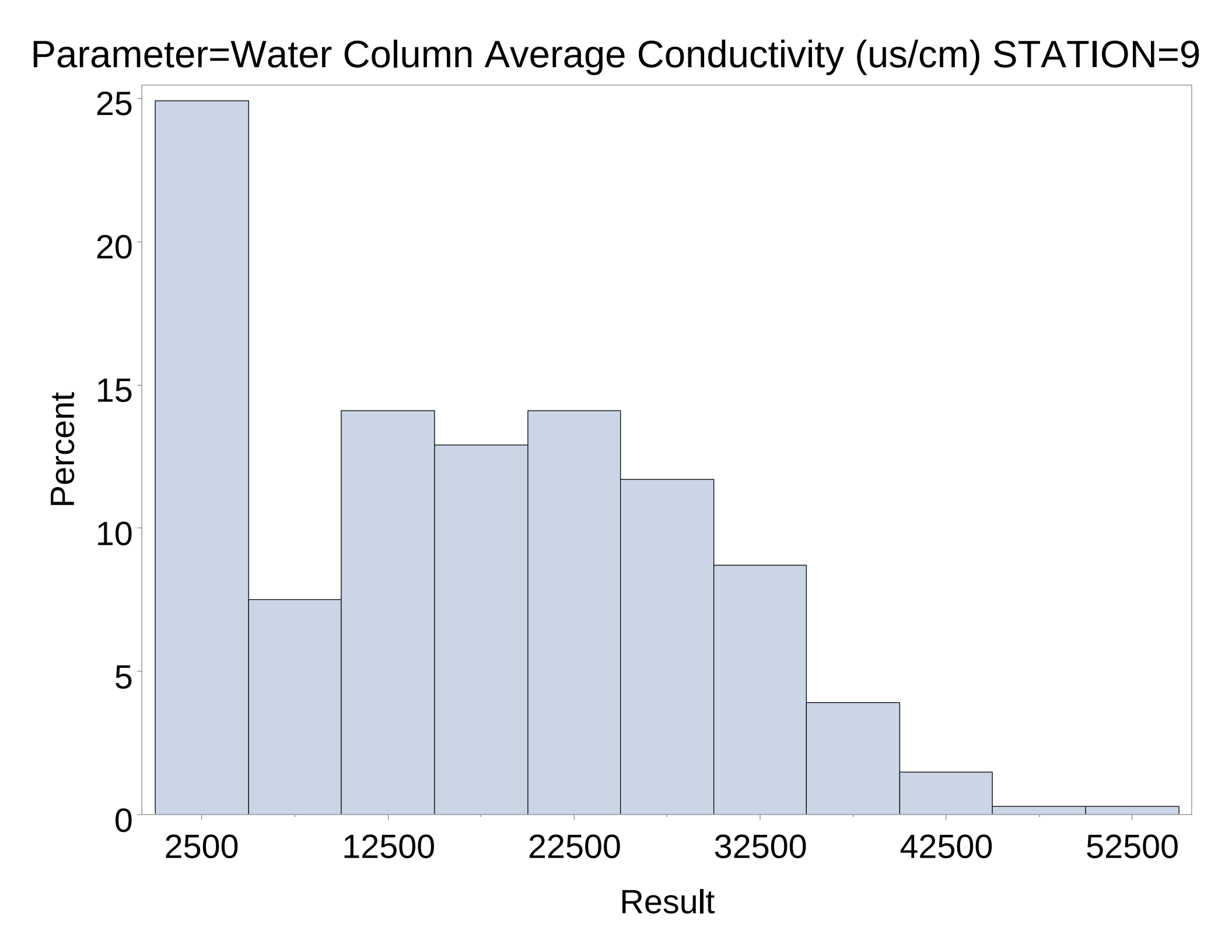
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.0887	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	52458.286
99%	44896.000
95%	35592.500
90%	32400.000
75% Q3	25765.167
50% Median	16427.500
25% Q1	5024.125
10%	376.286
5%	289.000
1%	158.400
0% Min	65.625

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
65.625	23467	44543.3	23331
138.667	23324	44896.0	23414
148.667	23360	44945.3	23391
158.400	23514	46952.3	23403
191.286	23490	52458.3	23402


Parameter=Water Column Average Conductivity (us/cm) STATION=9
Percent
25
20
15
10
5
0
2500
12500
22500
32500
42500
52500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=10

Moments			
N	335	**Sum Weights**	335
Mean	2813.76702	**Sum Observations**	942611.952
Std Deviation	4961.20709	**Variance**	24613575.8
Skewness	2.70294851	**Kurtosis**	7.26529614
Uncorrected SS	1.08732E10	**Corrected SS**	8220934325
Coeff Variation	176.319043	**Std Error Mean**	271.059699

Basic Statistical Measures			
Location		**Variability**	
Mean	2813.767	**Std Deviation**	4961
Median	735.750	**Variance**	24613576
Mode	412.000	**Range**	28941
		Interquartile Range	1166

Note: The mode displayed is the smallest of 9 modes with a count of 2.

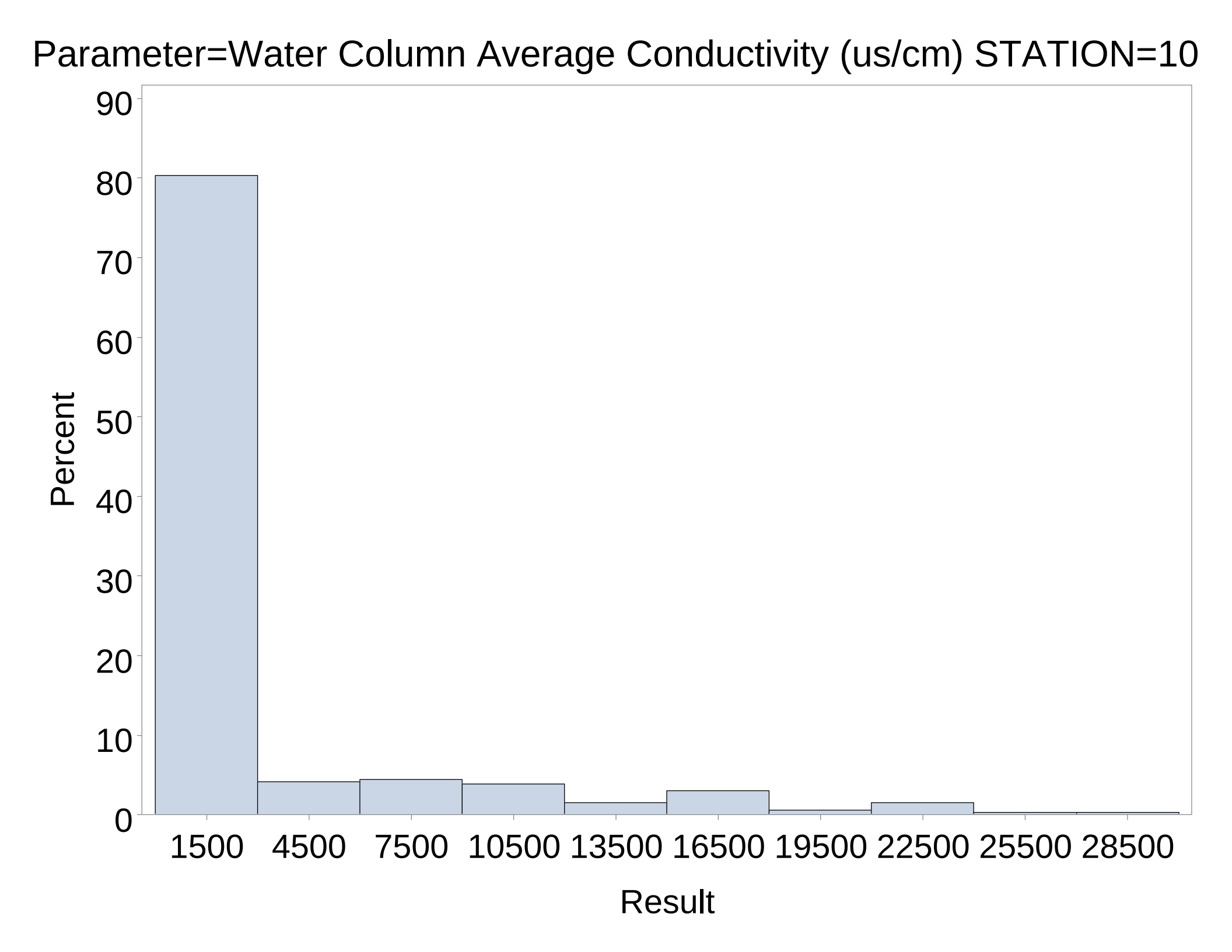
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.38062	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29002.33
99%	22614.00
95%	15605.00
90%	9501.00
75% Q3	1683.33
50% Median	735.75
25% Q1	517.00
10%	367.00
5%	299.20
1%	202.00
0% Min	61.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
61.000	23802	22000.3	23785
178.000	23586	22614.0	23642
187.333	23849	23284.8	23845
202.000	23658	25494.0	23643
215.000	23825	29002.3	23749


Parameter=Water Column Average Conductivity (us/cm) STATION=10
Percent
90
80
70
60
50
40
30
20
10
0
1500
4500
7500
10500
13500
16500
19500
22500
25500
28500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	3107.63632	**Sum Observations**	1031735.26
Std Deviation	5543.45106	**Variance**	30729849.6
Skewness	2.78577273	**Kurtosis**	8.60751961
Uncorrected SS	1.33778E10	**Corrected SS**	1.01716E10
Coeff Variation	178.381589	**Std Error Mean**	304.236402

Basic Statistical Measures			
Location		**Variability**	
Mean	3107.636	**Std Deviation**	5543
Median	746.125	**Variance**	30729850
Mode	374.000	**Range**	37642
		Interquartile Range	1505

Note: The mode displayed is the smallest of 8 modes with a count of 2.

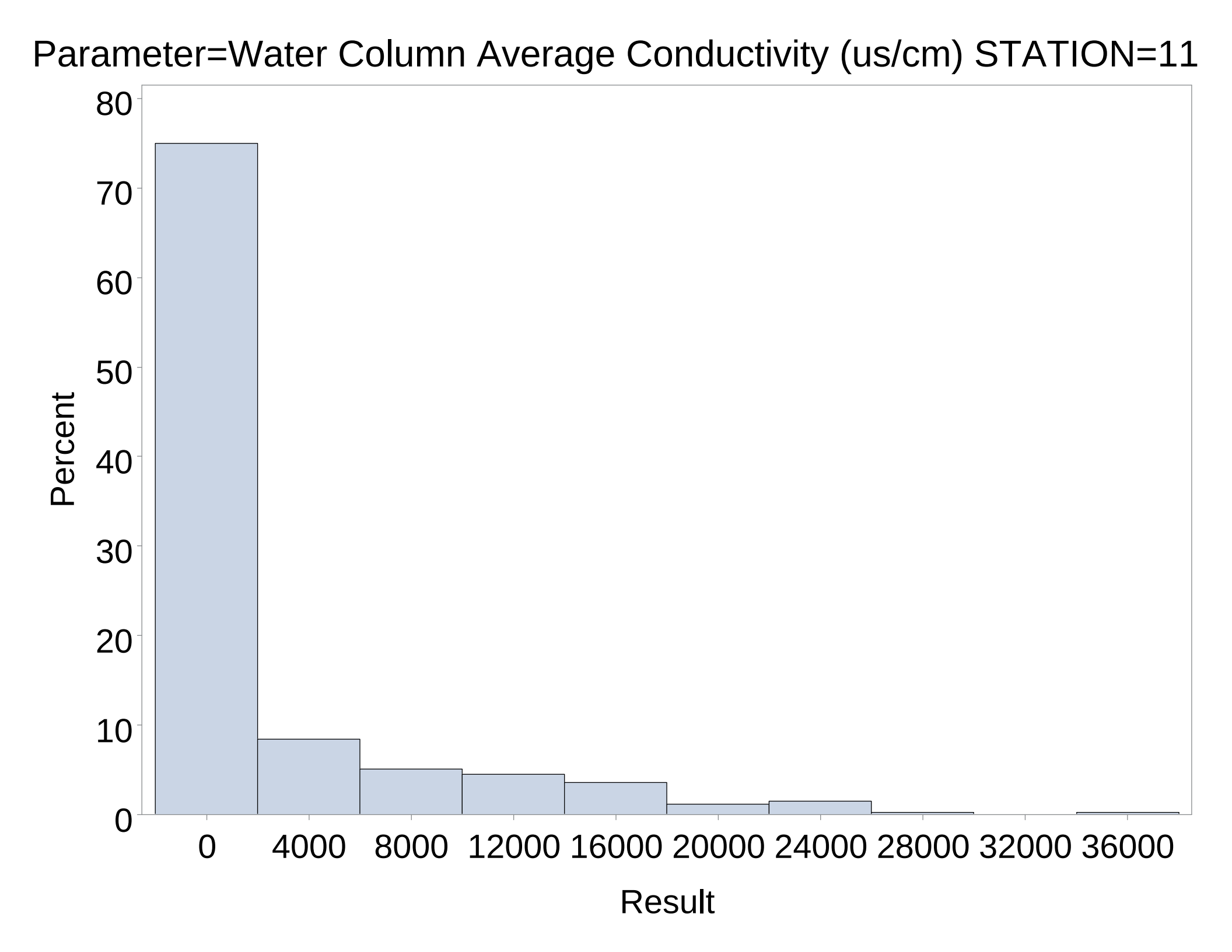
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.21454	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	37700.000
99%	23524.200
95%	16575.400
90%	10561.000
75% Q3	2025.625
50% Median	746.125
25% Q1	520.833
10%	379.000
5%	326.000
1%	222.000
0% Min	58.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
58.0	24134	22602.5	23975
183.6	23991	23524.2	24177
214.2	24181	25657.5	23976
222.0	23920	29791.6	24081
231.4	24157	37700.0	24194


Parameter=Water Column Average Conductivity (us/cm) STATION=11
Percent
80
70
60
50
40
30
20
10
0
0
4000
8000
12000
16000
20000
24000
28000
32000
36000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=12

Moments			
N	333	**Sum Weights**	333
Mean	3917.29889	**Sum Observations**	1304460.53
Std Deviation	5927.91823	**Variance**	35140214.5
Skewness	2.03088936	**Kurtosis**	3.58827694
Uncorrected SS	1.67765E10	**Corrected SS**	1.16666E10
Coeff Variation	151.326677	**Std Error Mean**	324.847918

Basic Statistical Measures			
Location		**Variability**	
Mean	3917.299	**Std Deviation**	5928
Median	876.000	**Variance**	35140215
Mode	1245.444	**Range**	30454
		Interquartile Range	4157

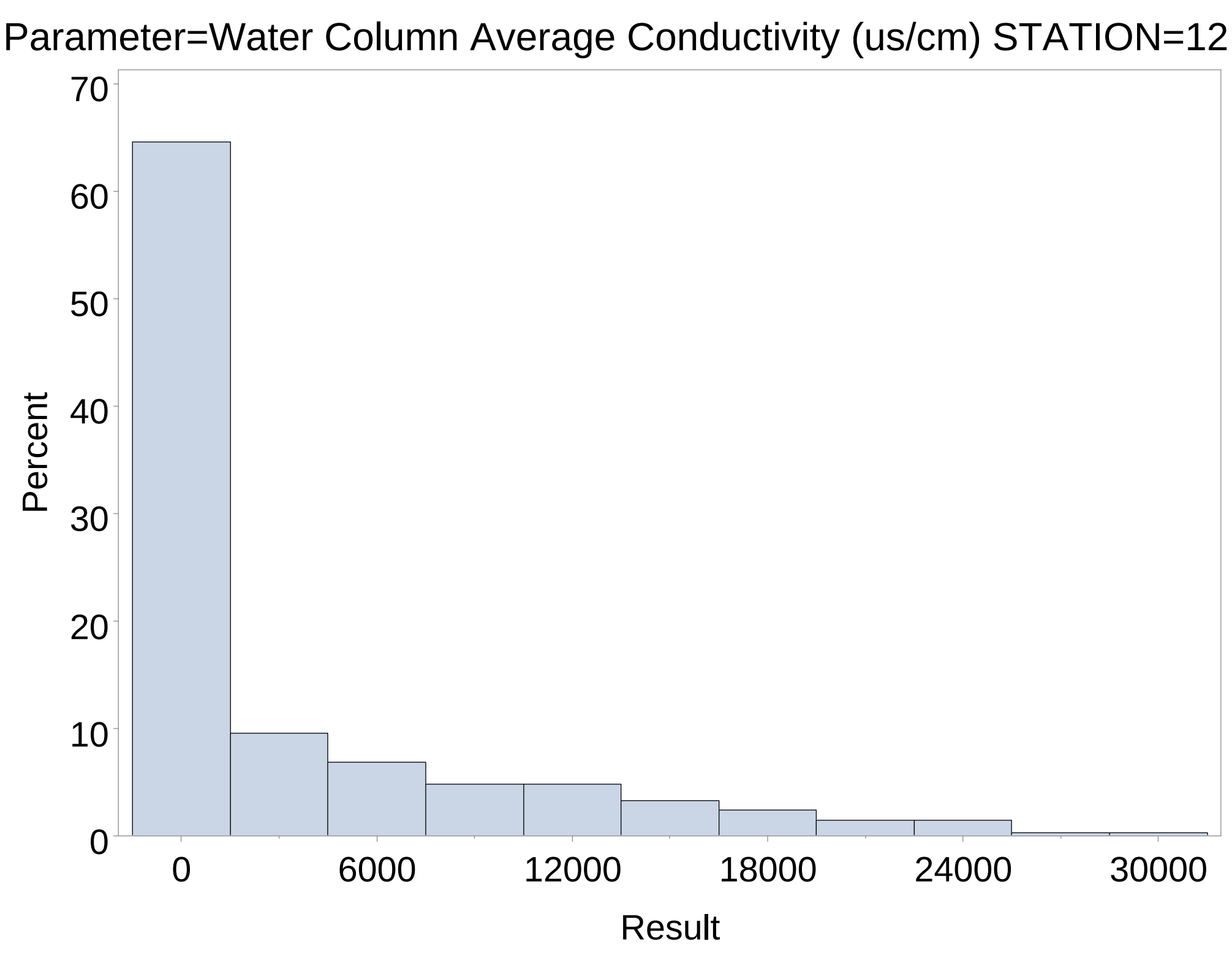
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.05887	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30511.4000
99%	25217.7143
95%	18347.0000
90%	13071.3333
75% Q3	4672.6000
50% Median	876.0000
25% Q1	515.6667
10%	351.8571
5%	294.6667
1%	200.2222
0% Min	57.2857

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
57.2857	24467	24398.5	24510
178.2500	24324	25217.7	24450
187.2222	24252	25266.9	24404
200.2222	24514	25503.3	24309
202.0000	24370	30511.4	24414


Parameter=Water Column Average Conductivity (us/cm) STATION=12
70
60
50
40
30
20
10
0
Percent
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	4079.57033	**Sum Observations**	1362576.49
Std Deviation	6119.69847	**Variance**	37450709.4
Skewness	2.01848389	**Kurtosis**	3.52615159
Uncorrected SS	1.80298E10	**Corrected SS**	1.24711E10
Coeff Variation	150.008407	**Std Error Mean**	334.855002

Basic Statistical Measures			
Location		**Variability**	
Mean	4079.570	**Std Deviation**	6120
Median	912.893	**Variance**	37450709
Mode	1191.600	**Range**	31676
		Interquartile Range	4300

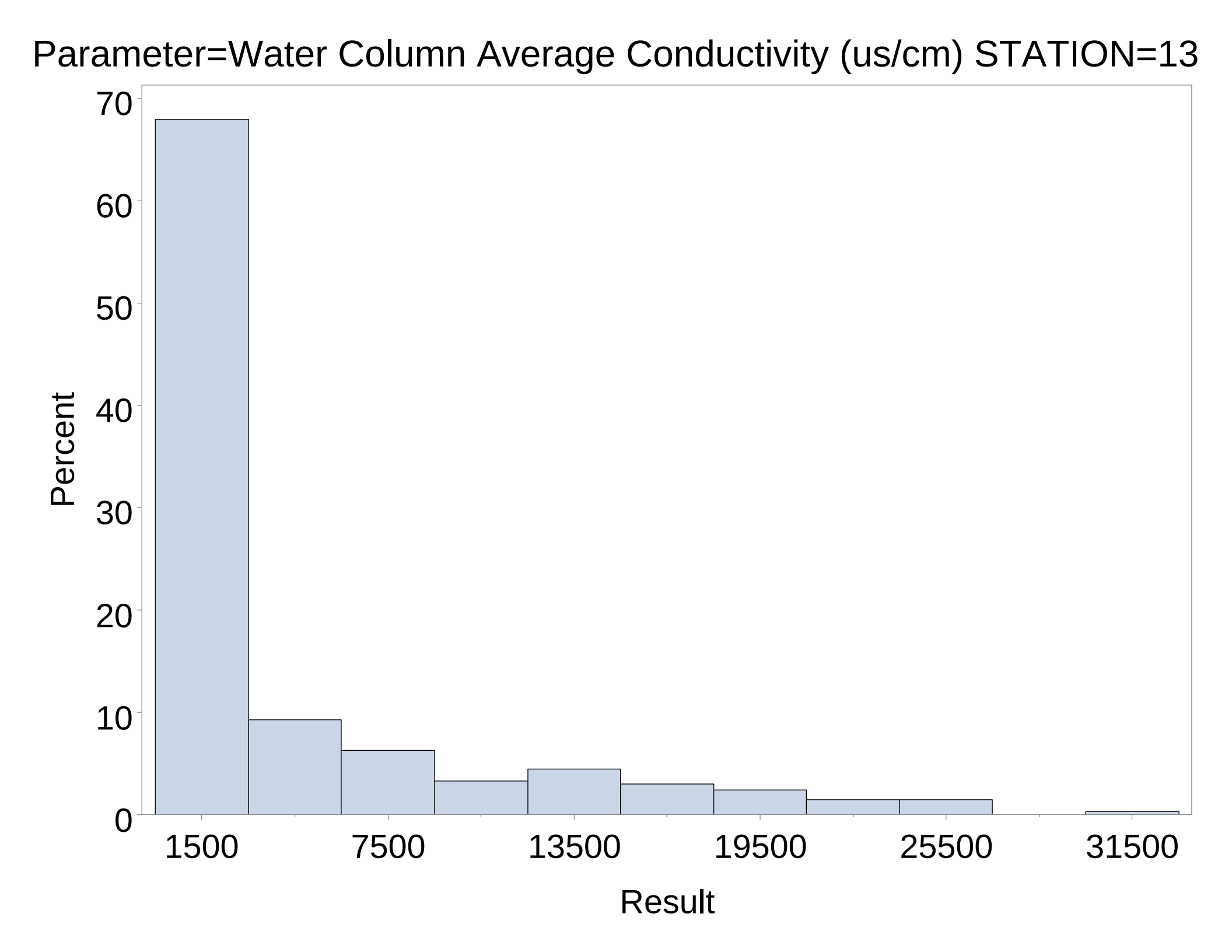
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.1831	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31728.714
99%	25608.286
95%	18570.000
90%	13370.000
75% Q3	4819.000
50% Median	912.893
25% Q1	519.111
10%	362.875
5%	309.750
1%	197.000
0% Min	53.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
53.000	24801	25498.5	24737
162.000	24657	25608.3	24844
188.286	24585	25719.9	24784
197.000	24848	26298.0	24642
202.125	24824	31728.7	24748


Parameter=Water Column Average Conductivity (us/cm) STATION=13
Percent
70
60
50
40
30
20
10
0
1500
7500
13500
19500
25500
31500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	4925.7043	**Sum Observations**	1640259.53
Std Deviation	6840.45533	**Variance**	46791829.2
Skewness	1.78023372	**Kurtosis**	2.5591412
Uncorrected SS	2.36143E10	**Corrected SS**	1.55349E10
Coeff Variation	138.872635	**Std Error Mean**	374.854643

Basic Statistical Measures			
Location		**Variability**	
Mean	4925.704	**Std Deviation**	6840
Median	1217.333	**Variance**	46791829
Mode	507.000	**Range**	33701
		Interquartile Range	6570

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

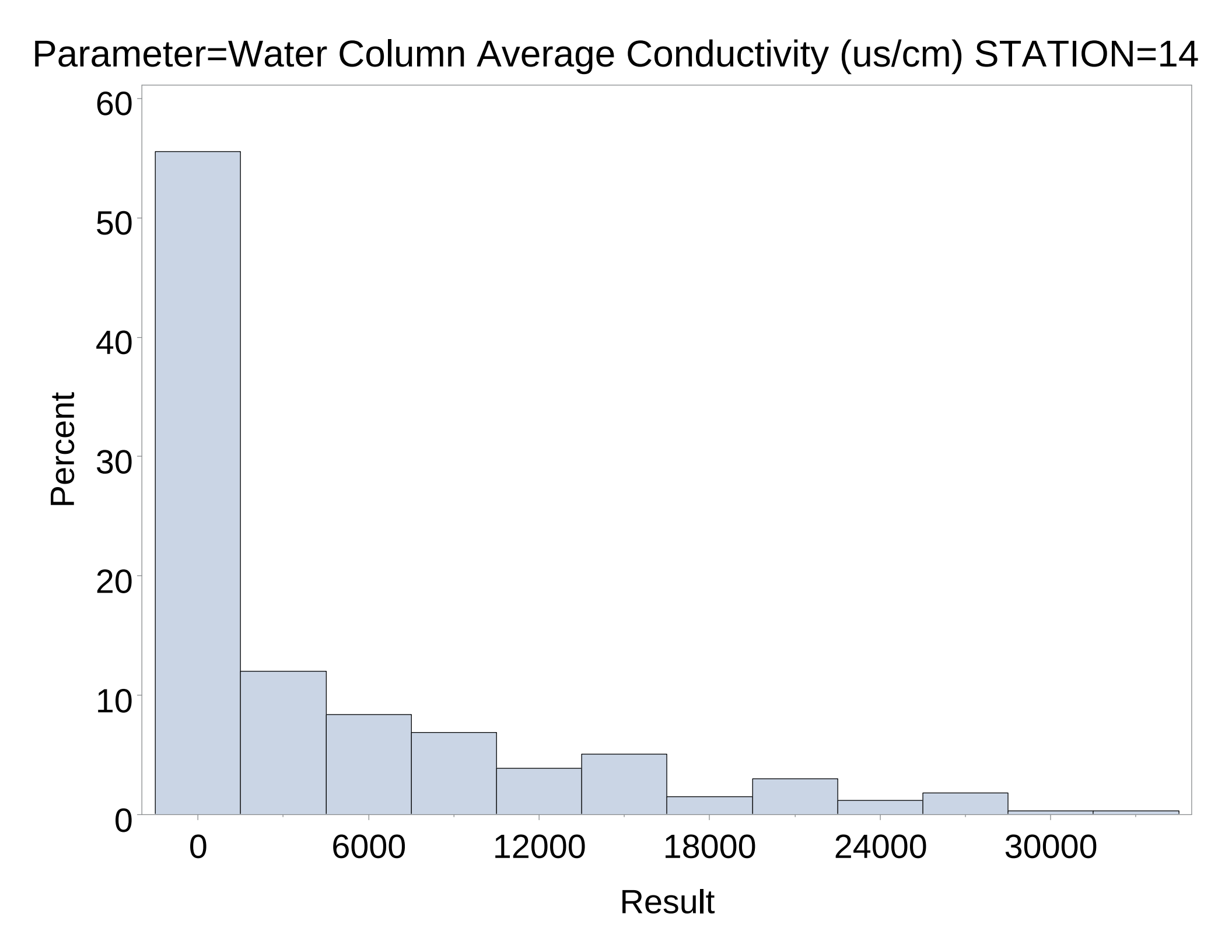
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.1403	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33754.000
99%	27243.333
95%	20791.000
90%	15276.667
75% Q3	7125.000
50% Median	1217.333
25% Q1	555.333
10%	364.500
5%	310.500
1%	199.200
0% Min	53.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
53.000	25134	26648.0	24976
169.500	24991	27243.3	24975
189.857	24919	27686.0	25117
199.200	25157	29197.0	25070
201.000	25181	33754.0	25081


Parameter=Water Column Average Conductivity (us/cm) STATION=14
Percent
60
50
40
30
20
10
0
0
6000
12000
18000
24000
30000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=15

Moments			
N	332	**Sum Weights**	332
Mean	7888.8792	**Sum Observations**	2619107.89
Std Deviation	9011.11241	**Variance**	81200146.9
Skewness	1.19700331	**Kurtosis**	0.58608283
Uncorrected SS	4.75391E10	**Corrected SS**	2.68772E10
Coeff Variation	114.225509	**Std Error Mean**	494.549043

Basic Statistical Measures			
Location		**Variability**	
Mean	7888.879	**Std Deviation**	9011
Median	3900.000	**Variance**	81200147
Mode	253.000	**Range**	38159
		Interquartile Range	13002

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

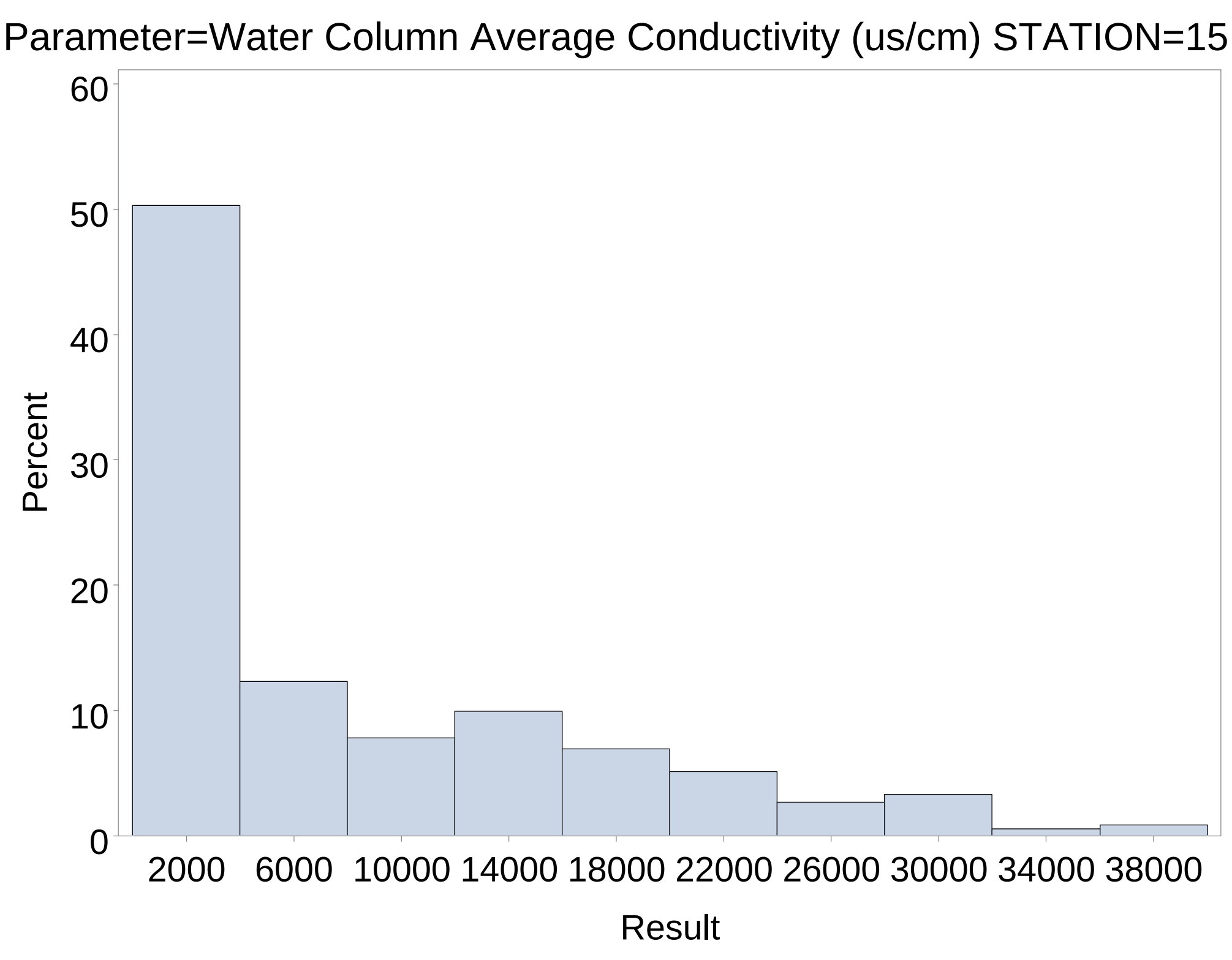
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.95166	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	38212.636
99%	33365.250
95%	27898.300
90%	20950.000
75% Q3	13650.000
50% Median	3900.000
25% Q1	648.167
10%	376.667
5%	308.750
1%	201.000
0% Min	54.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.000	25466	33335.0	25449
161.500	25323	33365.3	25390
191.333	25252	37024.7	25402
201.000	25489	37939.4	25401
202.000	25513	38212.6	25413


Parameter=Water Column Average Conductivity (us/cm) STATION=15
Percent
60
50
40
30
20
10
0
2000
6000
10000
14000
18000
22000
26000
30000
34000
38000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=16

Moments			
N	333	**Sum Weights**	333
Mean	12170.0548	**Sum Observations**	4052628.24
Std Deviation	11071.2863	**Variance**	122573381
Skewness	0.67247551	**Kurtosis**	-0.4920089
Uncorrected SS	9.00151E10	**Corrected SS**	4.06944E10
Coeff Variation	90.9715408	**Std Error Mean**	606.702753

Basic Statistical Measures			
Location		**Variability**	
Mean	12170.05	**Std Deviation**	11071
Median	10260.00	**Variance**	122573381
Mode	10460.50	**Range**	46383
		Interquartile Range	19554

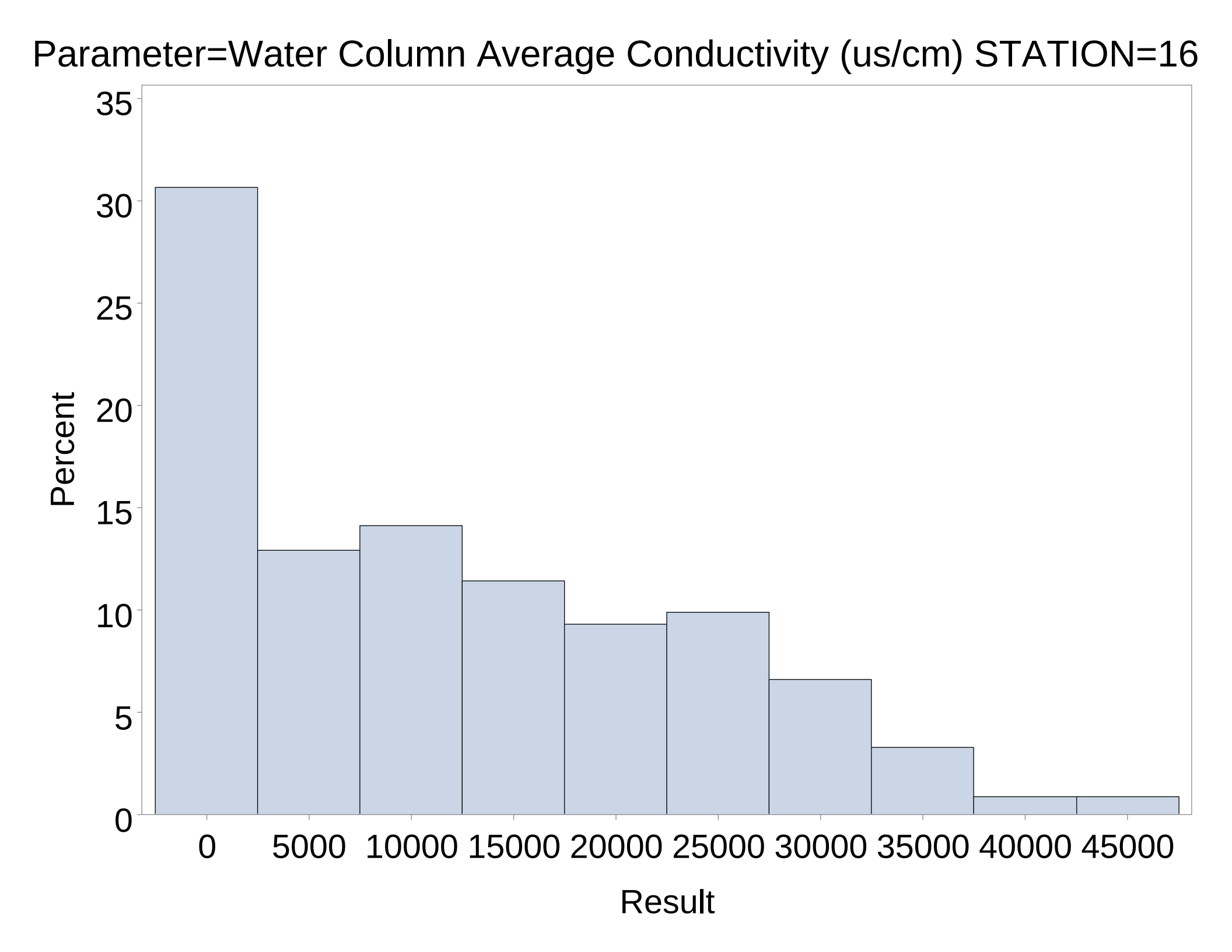
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.05934	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	46437.250
99%	40731.400
95%	32574.667
90%	28206.250
75% Q3	20670.000
50% Median	10260.000
25% Q1	1116.500
10%	374.833
5%	296.500
1%	193.889
0% Min	54.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.000	25799	38645.0	25663
161.500	25656	40731.4	25723
190.111	25584	42897.0	25746
193.889	25583	43013.8	25735
200.500	25822	46437.3	25734


Parameter=Water Column Average Conductivity (us/cm) STATION=16
Percent
35
30
25
20
15
10
5
0
0
5000
10000
15000
20000
25000
30000
35000
40000
45000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=17

Moments			
N	332	**Sum Weights**	332
Mean	13904.9323	**Sum Observations**	4616437.51
Std Deviation	11653.3628	**Variance**	135800864
Skewness	0.51557814	**Kurtosis**	-0.6757655
Uncorrected SS	1.09141E11	**Corrected SS**	4.49501E10
Coeff Variation	83.8074043	**Std Error Mean**	639.561372

Basic Statistical Measures			
Location		**Variability**	
Mean	13904.93	**Std Deviation**	11653
Median	12443.00	**Variance**	135800864
Mode	373.67	**Range**	49786
		Interquartile Range	21331

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

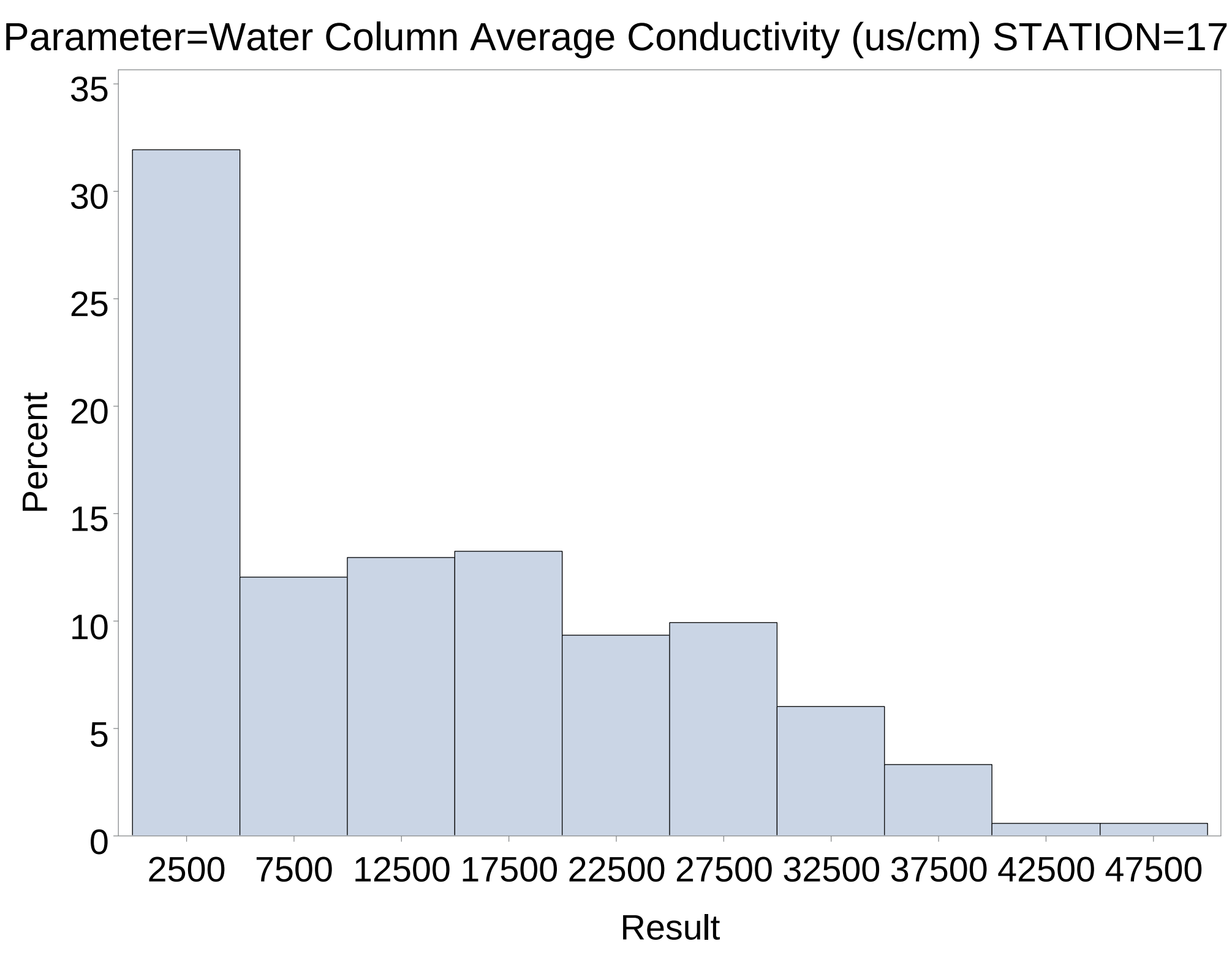
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.74136	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	49840.3
99%	43420.7
95%	34180.0
90%	30240.0
75% Q3	23360.0
50% Median	12443.0
25% Q1	2028.9
10%	398.8
5%	329.0
1%	206.8
0% Min	54.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
54.000	26131	39280.0	26043
161.333	25989	43420.7	26056
187.400	25917	43943.0	26078
206.800	26154	45667.5	26067
207.000	26178	49840.3	26066


Parameter=Water Column Average Conductivity (us/cm) STATION=17
Percent
35
30
25
20
15
10
5
0
2500
7500
12500
17500
22500
27500
32500
37500
42500
47500
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	10622.2251	**Sum Observations**	3494712.04
Std Deviation	10753.0545	**Variance**	115628181
Skewness	0.85792651	**Kurtosis**	-0.2348909
Uncorrected SS	7.50477E10	**Corrected SS**	3.7926E10
Coeff Variation	101.231658	**Std Error Mean**	592.835086

Basic Statistical Measures			
Location		**Variability**	
Mean	10622.23	**Std Deviation**	10753
Median	7472.00	**Variance**	115628181
Mode	276.00	**Range**	44522
		Interquartile Range	17467

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

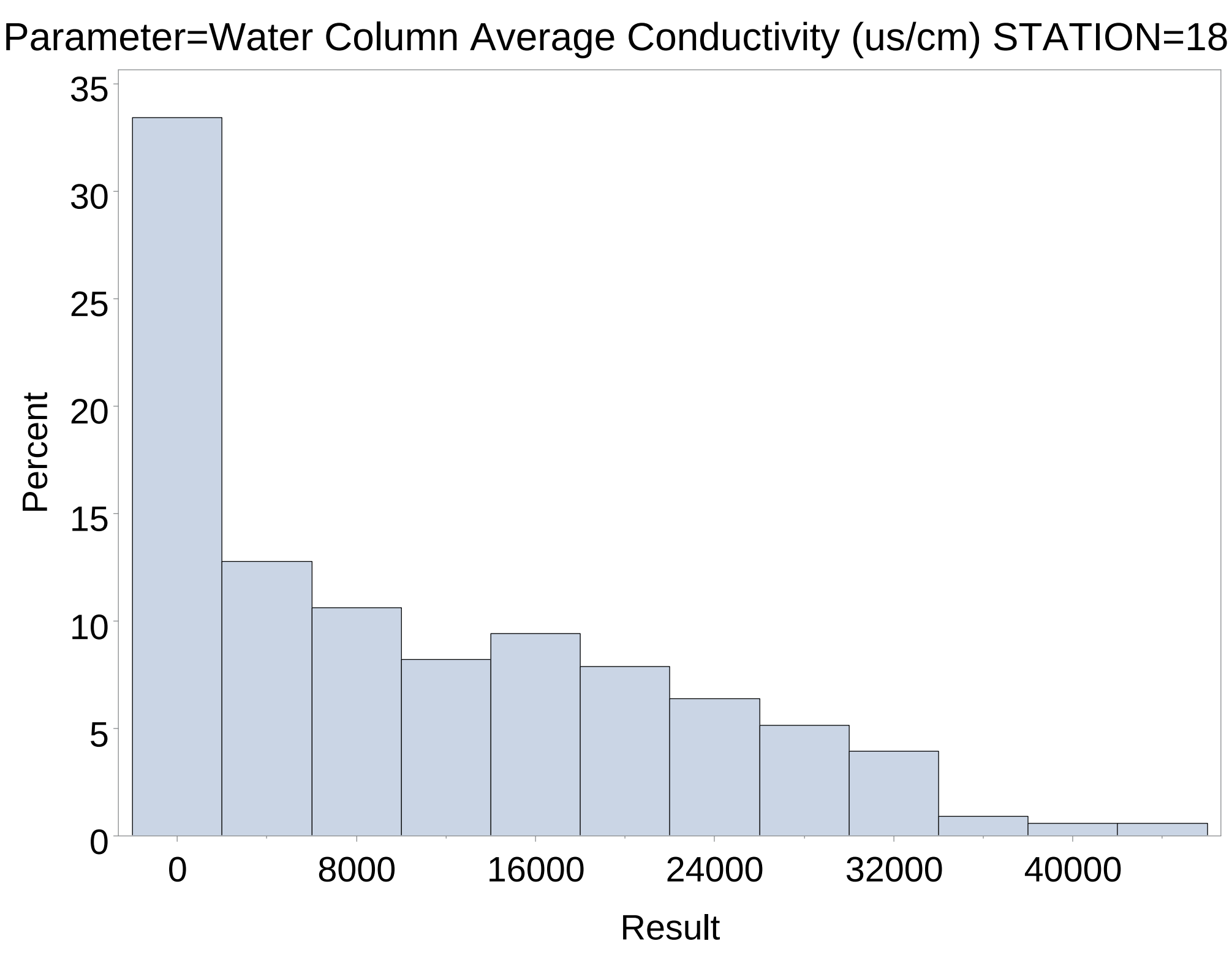
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.91767	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	44595.8000
99%	39948.0000
95%	31251.4286
90%	27800.0000
75% Q3	18057.4000
50% Median	7472.0000
25% Q1	590.1250
10%	268.2500
5%	208.2500
1%	139.2500
0% Min	73.4286

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
73.4286	26461	37337.1	26316
120.5000	26355	39948.0	26386
131.4000	26319	41452.3	26408
139.2500	26354	42033.8	26397
153.2000	26248	44595.8	26396


Parameter=Water Column Average Conductivity (us/cm) STATION=18
Percent
35
30
25
20
15
10
5
0
0
8000
16000
24000
32000
40000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=19

Moments			
N	331	**Sum Weights**	331
Mean	18661.0158	**Sum Observations**	6176796.24
Std Deviation	12519.8866	**Variance**	156747562
Skewness	0.1093763	**Kurtosis**	-0.8397157
Uncorrected SS	1.66992E11	**Corrected SS**	5.17267E10
Coeff Variation	67.0911314	**Std Error Mean**	688.155206

Basic Statistical Measures			
Location		**Variability**	
Mean	18661.02	**Std Deviation**	12520
Median	18991.33	**Variance**	156747562
Mode	17280.00	**Range**	55352
		Interquartile Range	21679

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

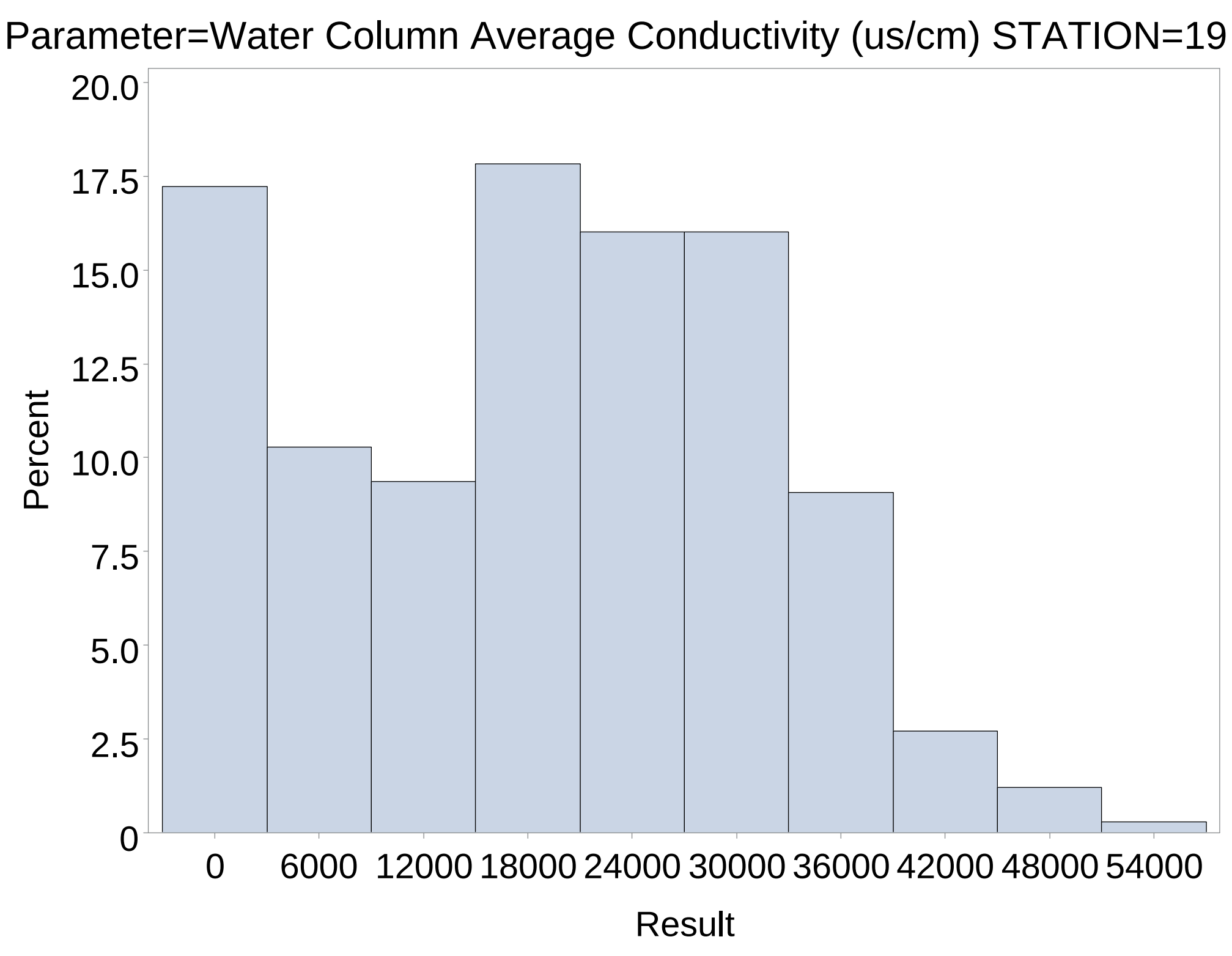
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.11745	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	55412.0
99%	47386.0
95%	38200.0
90%	35282.5
75% Q3	28811.0
50% Median	18991.3
25% Q1	7132.5
10%	397.4
5%	283.0
1%	158.6
0% Min	60.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
60.0	26791	46114	26738
154.8	26650	47386	26657
158.0	26838	47438	26716
158.6	26578	49153	26727
197.0	26685	55412	26726


Parameter=Water Column Average Conductivity (us/cm) STATION=19
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
6000
12000
18000
24000
30000
36000
42000
48000
54000
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	679.555556	**Sum Observations**	679.555556
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	461795.753	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	679.5556	**Std Deviation**	.
Median	679.5556	**Variance**	.
Mode	679.5556	**Range**	0
		Interquartile Range	0

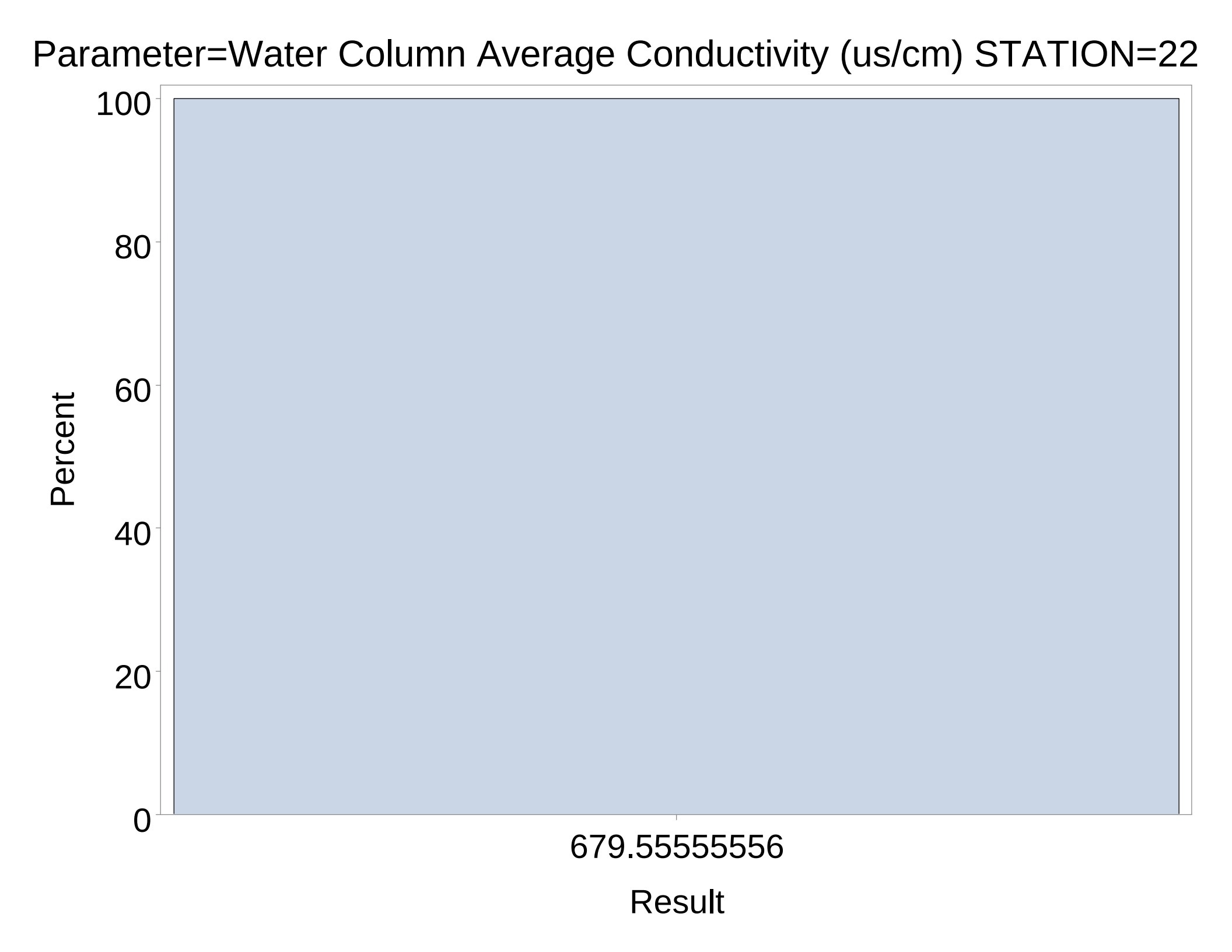
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	679.556
99%	679.556
95%	679.556
90%	679.556
75% Q3	679.556
50% Median	679.556
25% Q1	679.556
10%	679.556
5%	679.556
1%	679.556
0% Min	679.556

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Conductivity (us/cm) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
679.556	26854	679.556	26854


Parameter=Water Column Average Conductivity (us/cm) STATION=22
100
80
60
40
20
0
Percent
679.55555556
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=1

Moments			
N	334	**Sum Weights**	334
Mean	5.10721557	**Sum Observations**	1705.81
Std Deviation	1.75997962	**Variance**	3.09752826
Skewness	-0.1927269	**Kurtosis**	0.40605165
Uncorrected SS	9743.4163	**Corrected SS**	1031.47691
Coeff Variation	34.4606488	**Std Error Mean**	0.0963018

Basic Statistical Measures			
Location		**Variability**	
Mean	5.107216	**Std Deviation**	1.75998
Median	5.015000	**Variance**	3.09753
Mode	4.550000	**Range**	9.49000
		Interquartile Range	2.20000

Note: The mode displayed is the smallest of 4 modes with a count of 4.

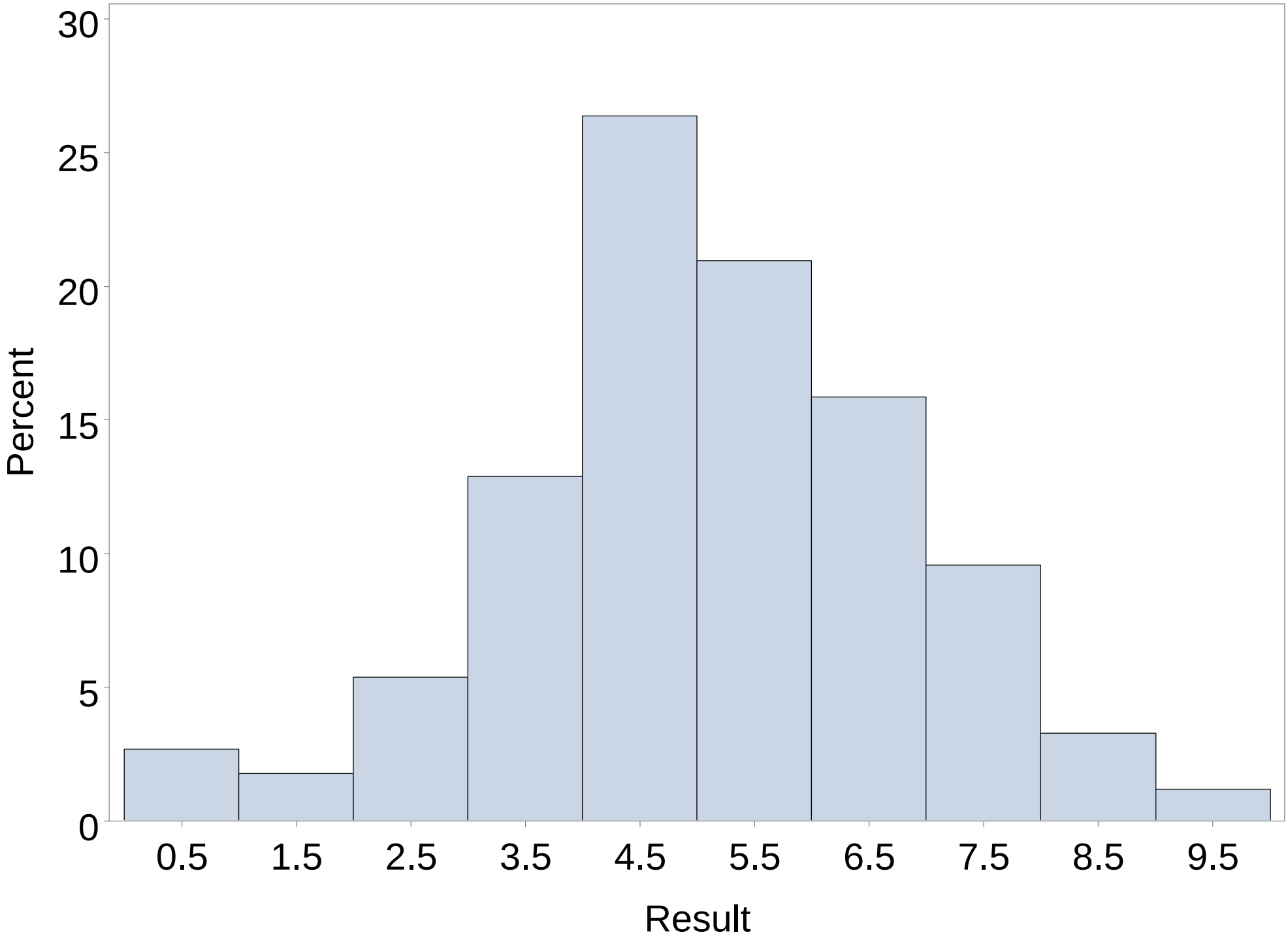
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	53.03344	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.730
99%	9.100
95%	7.900
90%	7.370
75% Q3	6.300
50% Median	5.015
25% Q1	4.100
10%	3.090
5%	2.220
1%	0.290
0% Min	0.240

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.24	26883	8.86	27010
0.28	27062	9.10	26945
0.29	27180	9.27	27034
0.29	26989	9.55	26974
0.31	26878	9.73	27023


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=1
Percent
30
25
20
15
10
5
0
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=2

Moments			
N	330	**Sum Weights**	330
Mean	4.24357576	**Sum Observations**	1400.38
Std Deviation	1.77449679	**Variance**	3.14883885
Skewness	-0.1788306	**Kurtosis**	0.13021684
Uncorrected SS	6978.5866	**Corrected SS**	1035.96798
Coeff Variation	41.8160742	**Std Error Mean**	0.09768283

Basic Statistical Measures			
Location		**Variability**	
Mean	4.243576	**Std Deviation**	1.77450
Median	4.310000	**Variance**	3.14884
Mode	3.610000	**Range**	9.10000
		Interquartile Range	1.97000

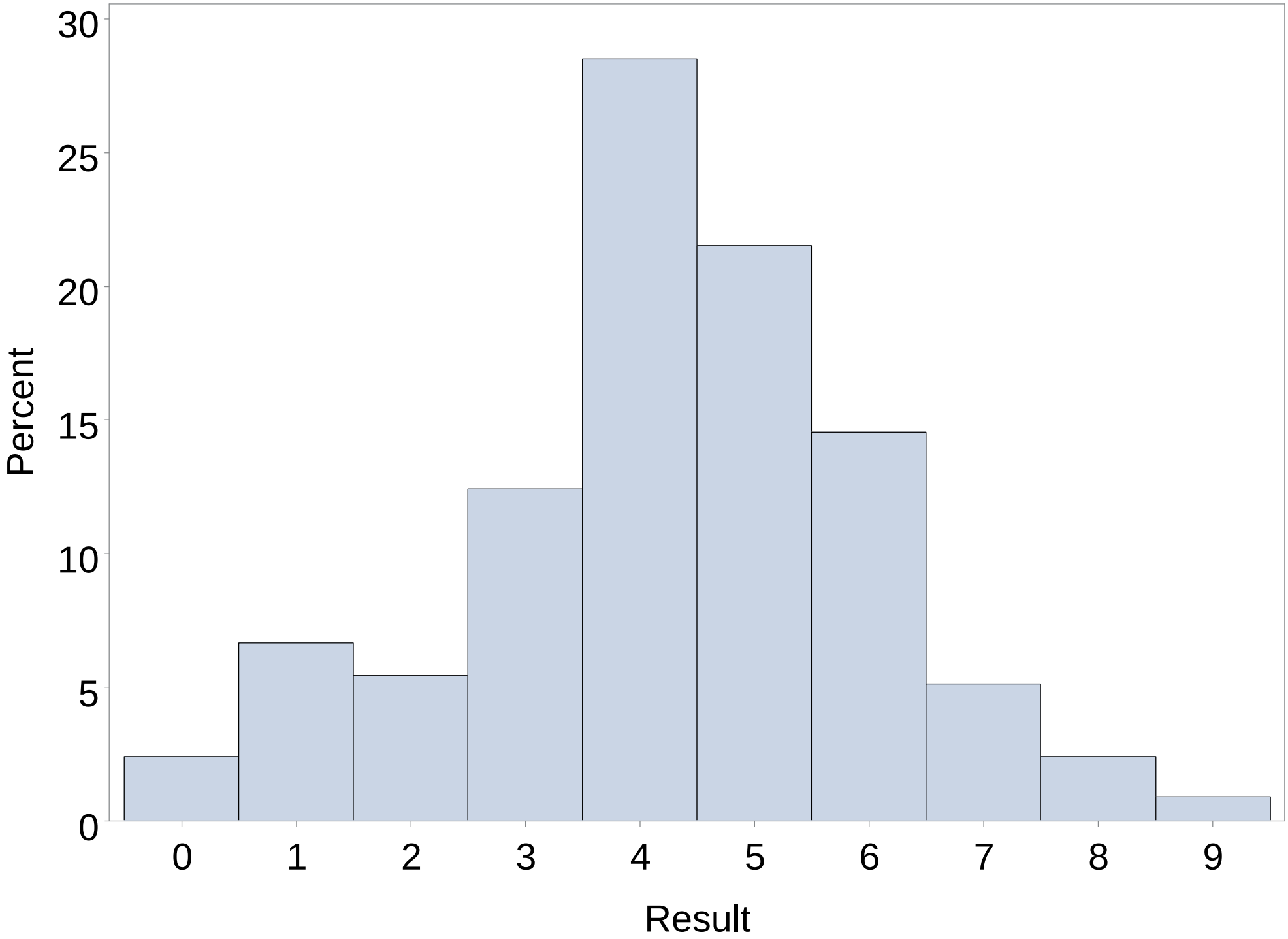
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	43.44239	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.210
99%	8.350
95%	7.040
90%	6.305
75% Q3	5.360
50% Median	4.310
25% Q1	3.390
10%	1.645
5%	0.580
1%	0.200
0% Min	0.110

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.11	27219	8.27	27341
0.17	27218	8.35	27366
0.19	27394	8.50	27507
0.20	27428	9.00	27356
0.22	27252	9.21	27279


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=2
Percent
30
25
20
15
10
5
0
0
1
2
3
4
5
6
7
8
9
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=3

Moments			
N	332	**Sum Weights**	332
Mean	5.16906627	**Sum Observations**	1716.13
Std Deviation	2.21750398	**Variance**	4.9173239
Skewness	0.21211311	**Kurtosis**	-0.0579109
Uncorrected SS	10498.4239	**Corrected SS**	1627.63421
Coeff Variation	42.8995077	**Std Error Mean**	0.12170134

Basic Statistical Measures			
Location		**Variability**	
Mean	5.169066	**Std Deviation**	2.21750
Median	5.210000	**Variance**	4.91732
Mode	2.720000	**Range**	13.74000
		Interquartile Range	3.48500

Note: The mode displayed is the smallest of 11 modes with a count of 3.

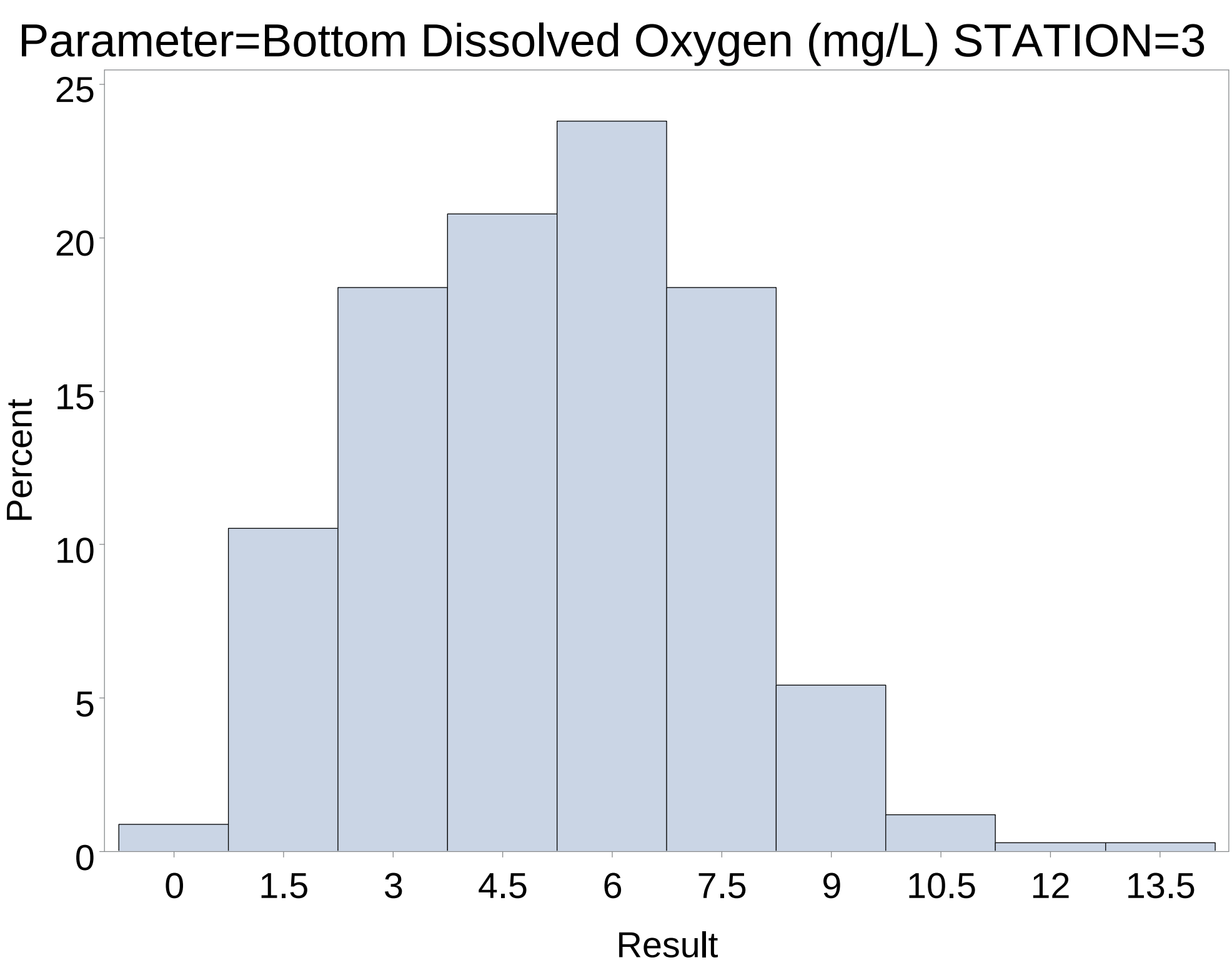
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.47337	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.810
99%	10.300
95%	8.450
90%	7.980
75% Q3	6.805
50% Median	5.210
25% Q1	3.320
10%	2.130
5%	1.830
1%	1.080
0% Min	0.070

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.07	27536	9.87	27672
0.38	27663	10.30	27637
0.56	27632	10.62	27686
1.08	27620	12.25	27724
1.21	27572	13.81	27685


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=3
Percent
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=4

Moments			
N	333	**Sum Weights**	333
Mean	5.24705706	**Sum Observations**	1747.27
Std Deviation	1.82952749	**Variance**	3.34717083
Skewness	0.20577756	**Kurtosis**	0.51300419
Uncorrected SS	10279.2861	**Corrected SS**	1111.26072
Coeff Variation	34.8676881	**Std Error Mean**	0.10025749

Basic Statistical Measures			
Location		**Variability**	
Mean	5.247057	**Std Deviation**	1.82953
Median	5.190000	**Variance**	3.34717
Mode	3.430000	**Range**	11.84000
		Interquartile Range	2.30000

Note: The mode displayed is the smallest of 12 modes with a count of 3.

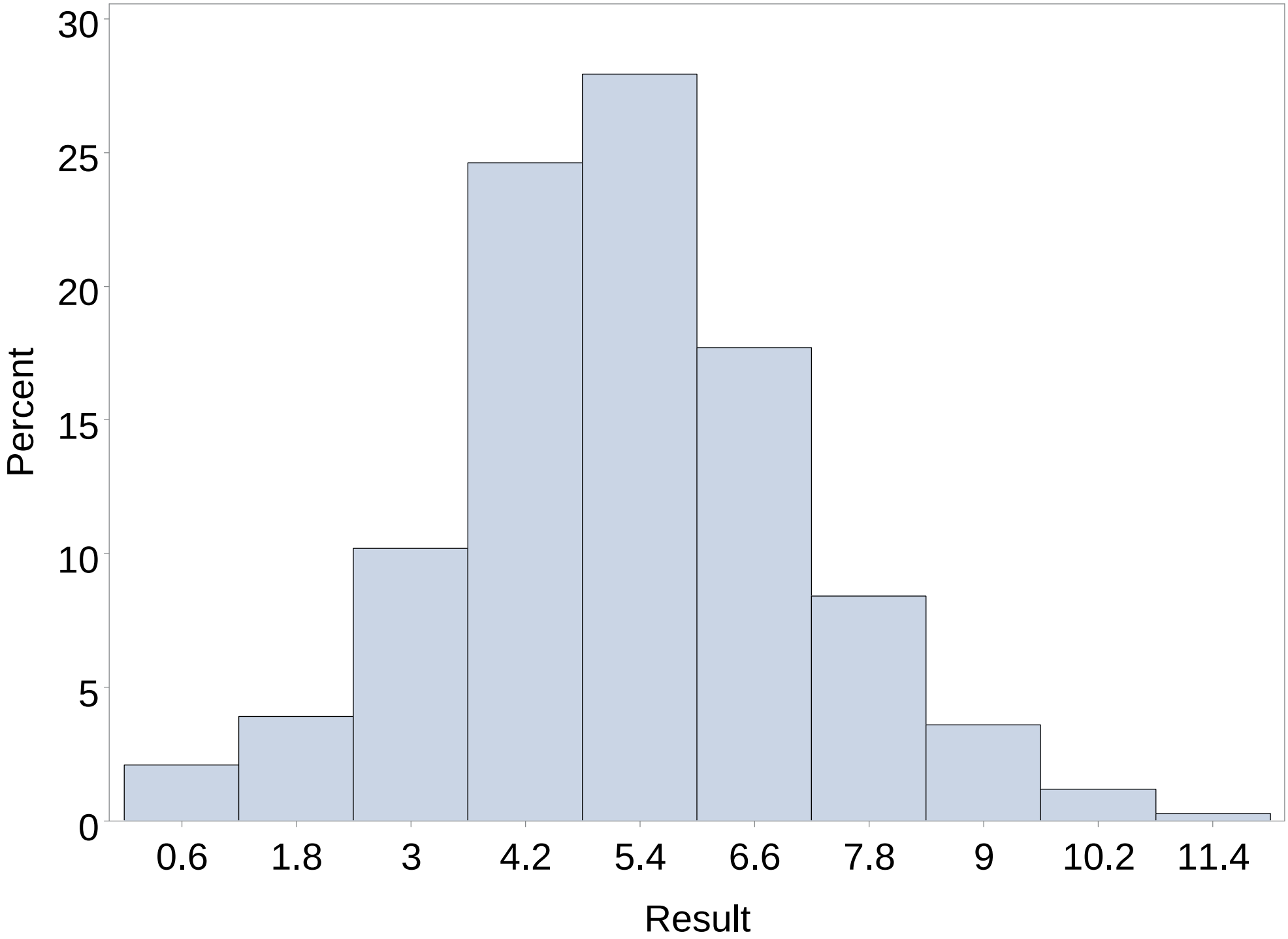
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	52.33581	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.90
99%	10.20
95%	8.42
90%	7.65
75% Q3	6.39
50% Median	5.19
25% Q1	4.09
10%	3.02
5%	2.31
1%	0.85
0% Min	0.06

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.06	27867	9.61	28030
0.61	28010	10.20	28019
0.73	28051	10.21	28029
0.85	27853	10.44	27912
0.87	28033	11.90	28018


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=4
Percent
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=5

Moments			
N	334	**Sum Weights**	334
Mean	5.72577844	**Sum Observations**	1912.41
Std Deviation	1.60151312	**Variance**	2.56484429
Skewness	0.48347587	**Kurtosis**	0.00827992
Uncorrected SS	11804.1291	**Corrected SS**	854.093148
Coeff Variation	27.9702252	**Std Error Mean**	0.0876309

Basic Statistical Measures			
Location		**Variability**	
Mean	5.725778	**Std Deviation**	1.60151
Median	5.510000	**Variance**	2.56484
Mode	5.960000	**Range**	9.19000
		Interquartile Range	2.24000

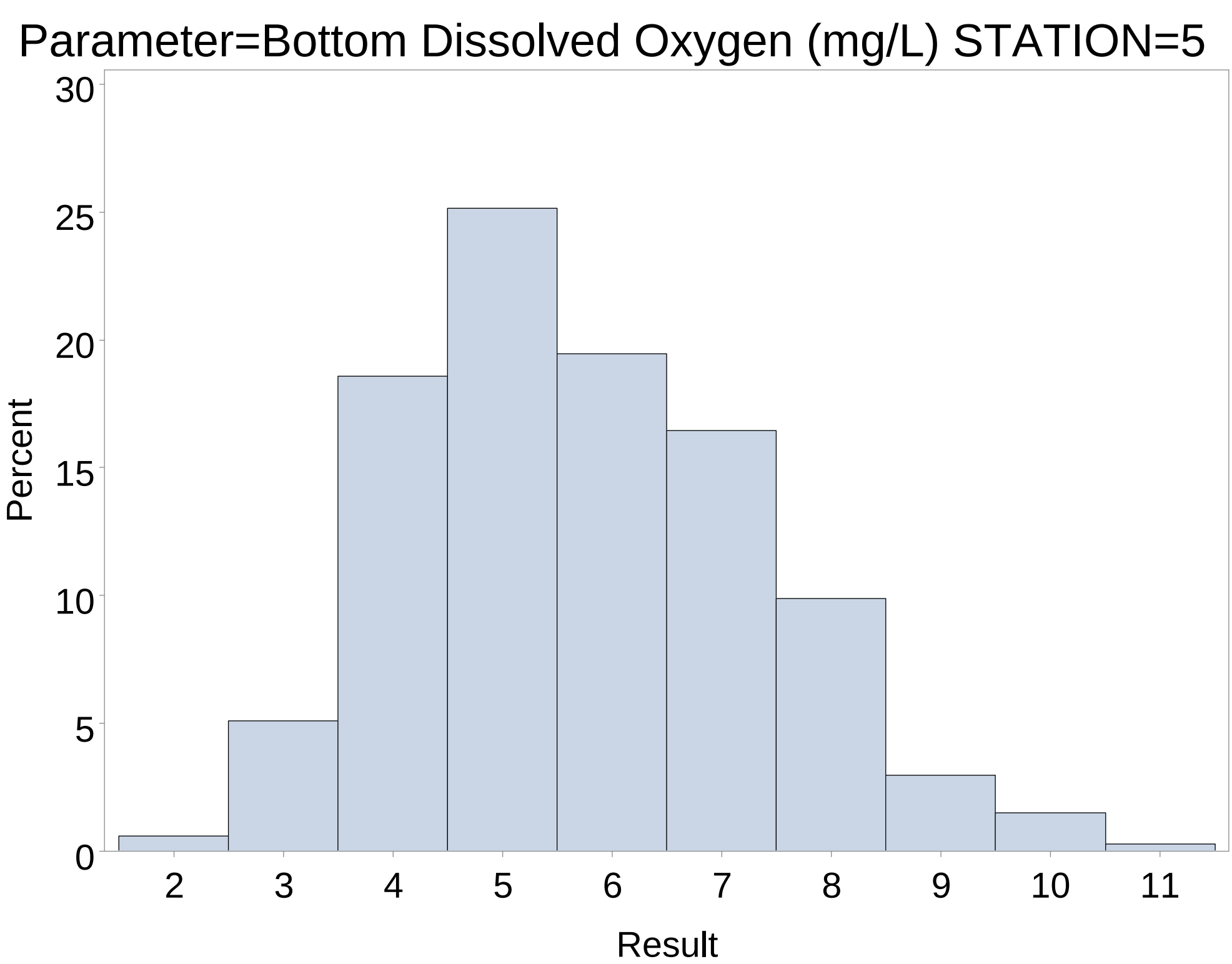
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.33972	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.31
99%	10.20
95%	8.47
90%	7.84
75% Q3	6.81
50% Median	5.51
25% Q1	4.57
10%	3.77
5%	3.33
1%	2.91
0% Min	2.12

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.12	28515	9.96	28436
2.14	28201	10.20	28246
2.86	28297	10.23	28339
2.91	28300	10.38	28352
2.92	28413	11.31	28353


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=5
Percent
30
25
20
15
10
5
0
2
3
4
5
6
7
8
9
10
11
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=6

Moments			
N	332	**Sum Weights**	332
Mean	5.81364458	**Sum Observations**	1930.13
Std Deviation	1.71638671	**Variance**	2.94598335
Skewness	0.47773795	**Kurtosis**	0.15019849
Uncorrected SS	12196.2103	**Corrected SS**	975.12049
Coeff Variation	29.5234201	**Std Error Mean**	0.09419896

Basic Statistical Measures			
Location		**Variability**	
Mean	5.813645	**Std Deviation**	1.71639
Median	5.595000	**Variance**	2.94598
Mode	4.160000	**Range**	11.11000
		Interquartile Range	2.48500

Note: The mode displayed is the smallest of 2 modes with a count of 4.

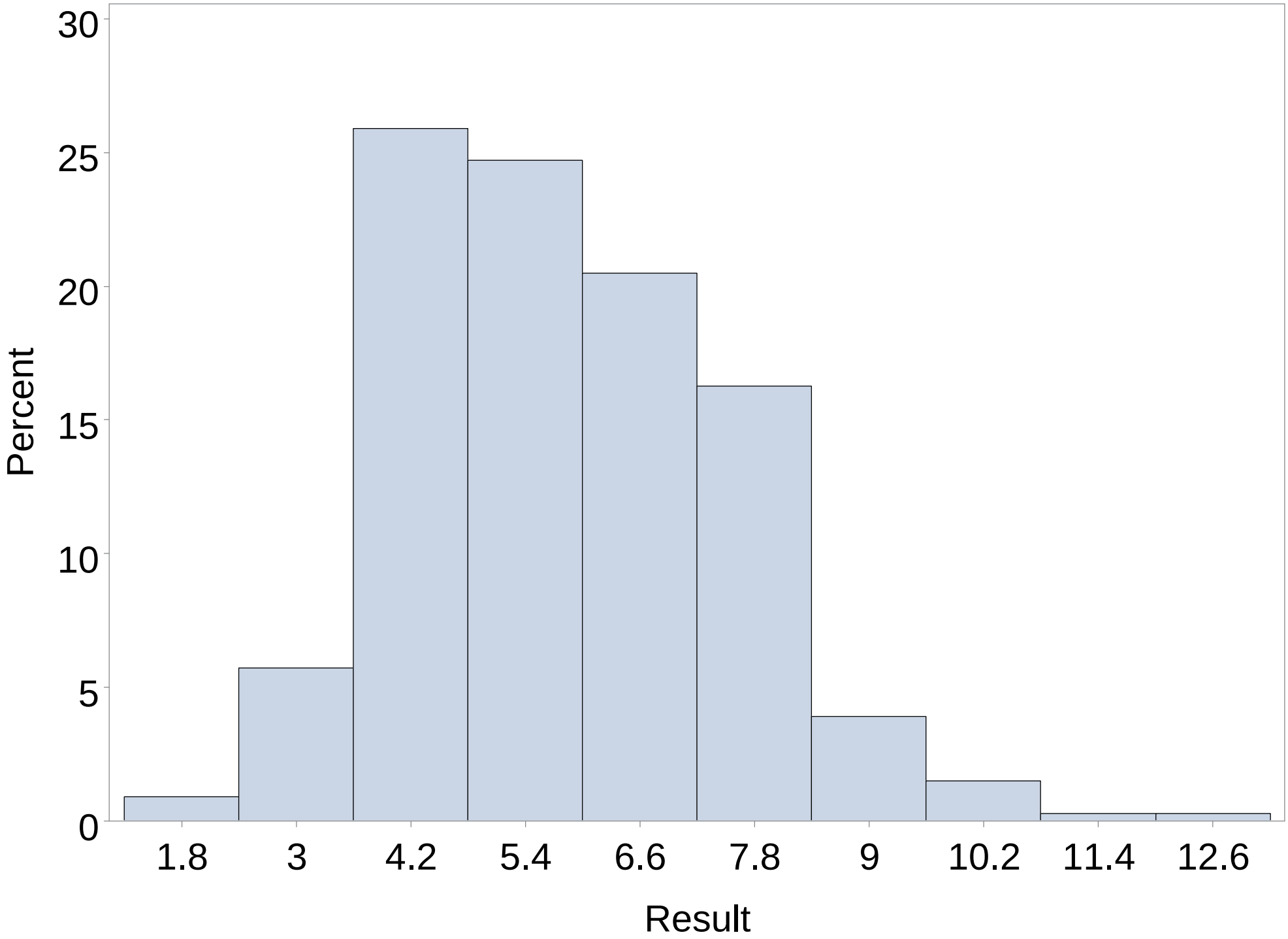
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	61.71665	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.670
99%	9.760
95%	8.810
90%	8.160
75% Q3	6.990
50% Median	5.595
25% Q1	4.505
10%	3.750
5%	3.410
1%	2.790
0% Min	1.560

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.56	28726	9.66	28681
2.06	28535	9.76	28568
2.09	28847	10.35	28637
2.79	28738	10.89	28685
2.86	28713	12.67	28684


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=6
Percent
30
25
20
15
10
5
0
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=7

Moments			
N	332	**Sum Weights**	332
Mean	6.01334337	**Sum Observations**	1996.43
Std Deviation	1.70930048	**Variance**	2.92170812
Skewness	0.24643938	**Kurtosis**	-0.3206885
Uncorrected SS	12972.3045	**Corrected SS**	967.085389
Coeff Variation	28.4251268	**Std Error Mean**	0.09381005

Basic Statistical Measures			
Location		**Variability**	
Mean	6.013343	**Std Deviation**	1.70930
Median	5.945000	**Variance**	2.92171
Mode	6.270000	**Range**	9.90000
		Interquartile Range	2.47000

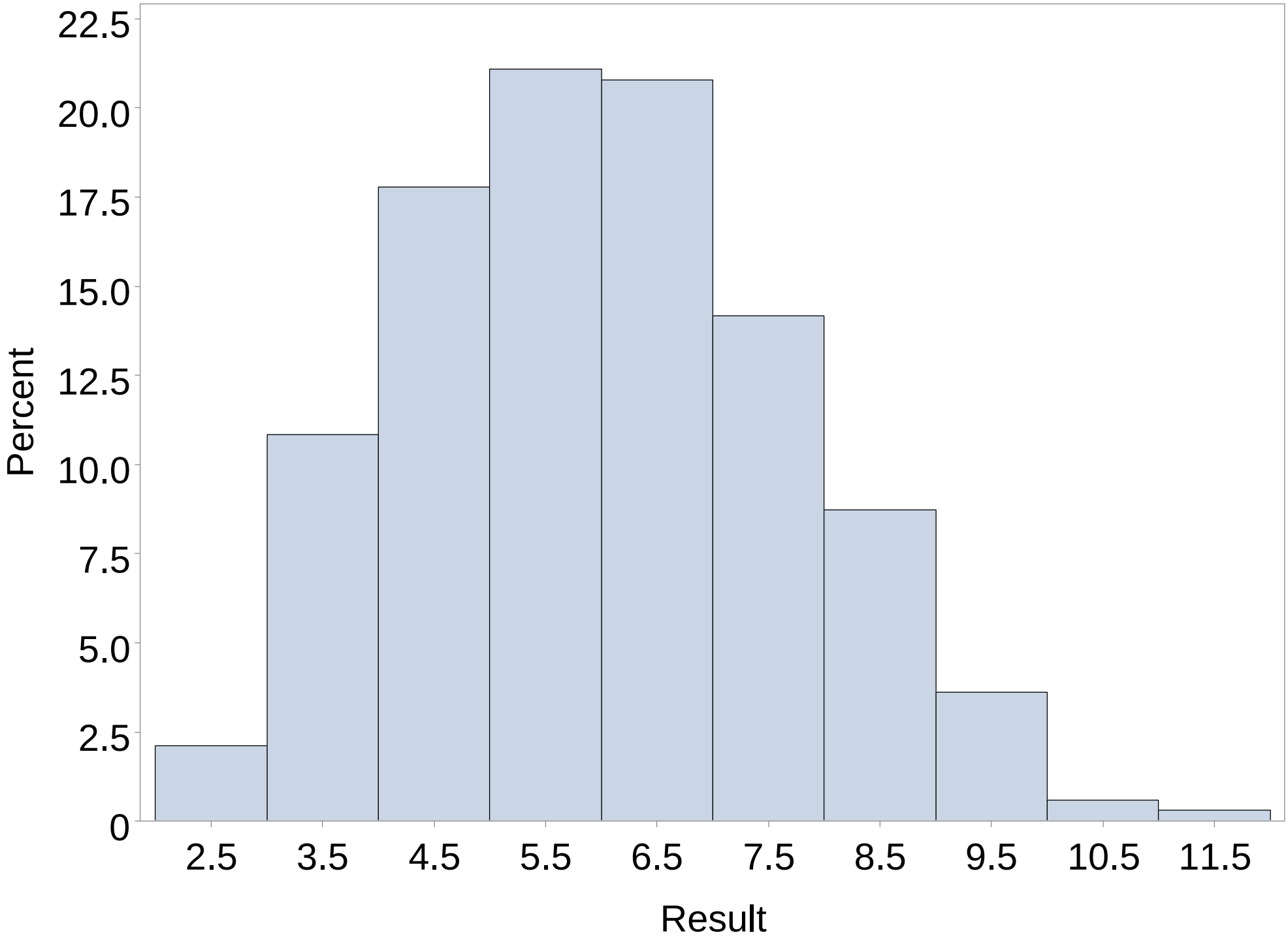
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	64.10127	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.900
99%	9.710
95%	8.930
90%	8.250
75% Q3	7.150
50% Median	5.945
25% Q1	4.680
10%	3.880
5%	3.350
1%	2.810
0% Min	2.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.00	28867	9.66	29100
2.40	29044	9.71	29016
2.74	29070	10.12	28969
2.81	29073	10.59	29017
2.85	29141	11.90	29003


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=7
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=8

Moments			
N	329	**Sum Weights**	329
Mean	6.09887538	**Sum Observations**	2006.53
Std Deviation	1.96114147	**Variance**	3.84607587
Skewness	0.35257921	**Kurtosis**	1.60459012
Uncorrected SS	13499.0893	**Corrected SS**	1261.51288
Coeff Variation	32.1557885	**Std Error Mean**	0.10812123

Basic Statistical Measures			
Location		**Variability**	
Mean	6.098875	**Std Deviation**	1.96114
Median	6.110000	**Variance**	3.84608
Mode	6.700000	**Range**	15.95000
		Interquartile Range	2.69000

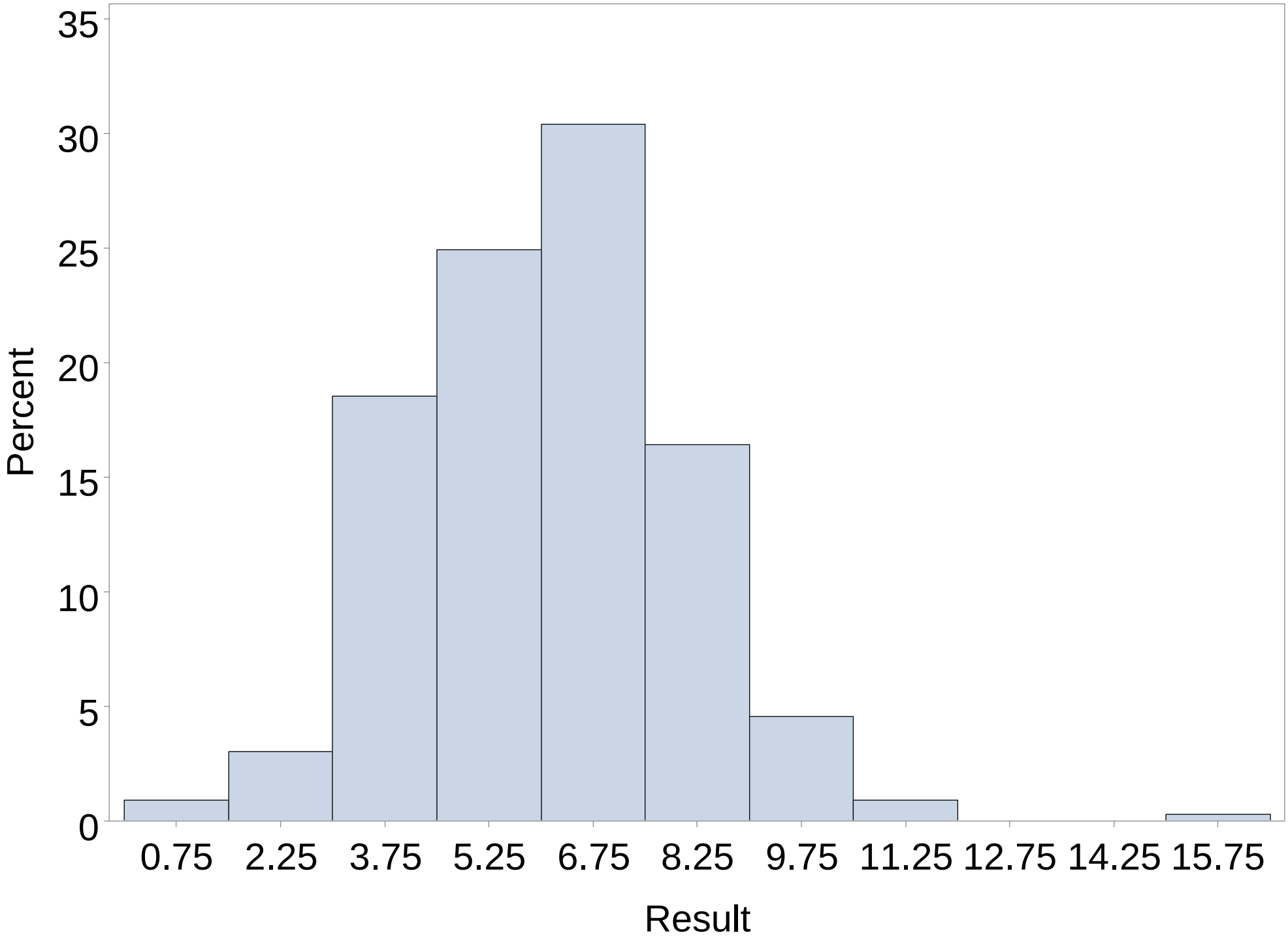
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	56.40775	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.16
99%	10.63
95%	9.20
90%	8.59
75% Q3	7.33
50% Median	6.11
25% Q1	4.64
10%	3.61
5%	3.16
1%	2.26
0% Min	0.21

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.21	29260	10.36	29344
0.36	29274	10.63	29194
1.10	29342	10.67	29308
2.26	29351	11.72	29499
2.30	29471	16.16	29334


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=8
Percent
35
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=9

Moments			
N	332	**Sum Weights**	332
Mean	6.01262048	**Sum Observations**	1996.19
Std Deviation	2.00028096	**Variance**	4.00112393
Skewness	0.29358906	**Kurtosis**	1.23398908
Uncorrected SS	13326.7049	**Corrected SS**	1324.37202
Coeff Variation	33.2680396	**Std Error Mean**	0.10977968

Basic Statistical Measures			
Location		**Variability**	
Mean	6.012620	**Std Deviation**	2.00028
Median	6.130000	**Variance**	4.00112
Mode	7.100000	**Range**	16.05000
		Interquartile Range	2.88500

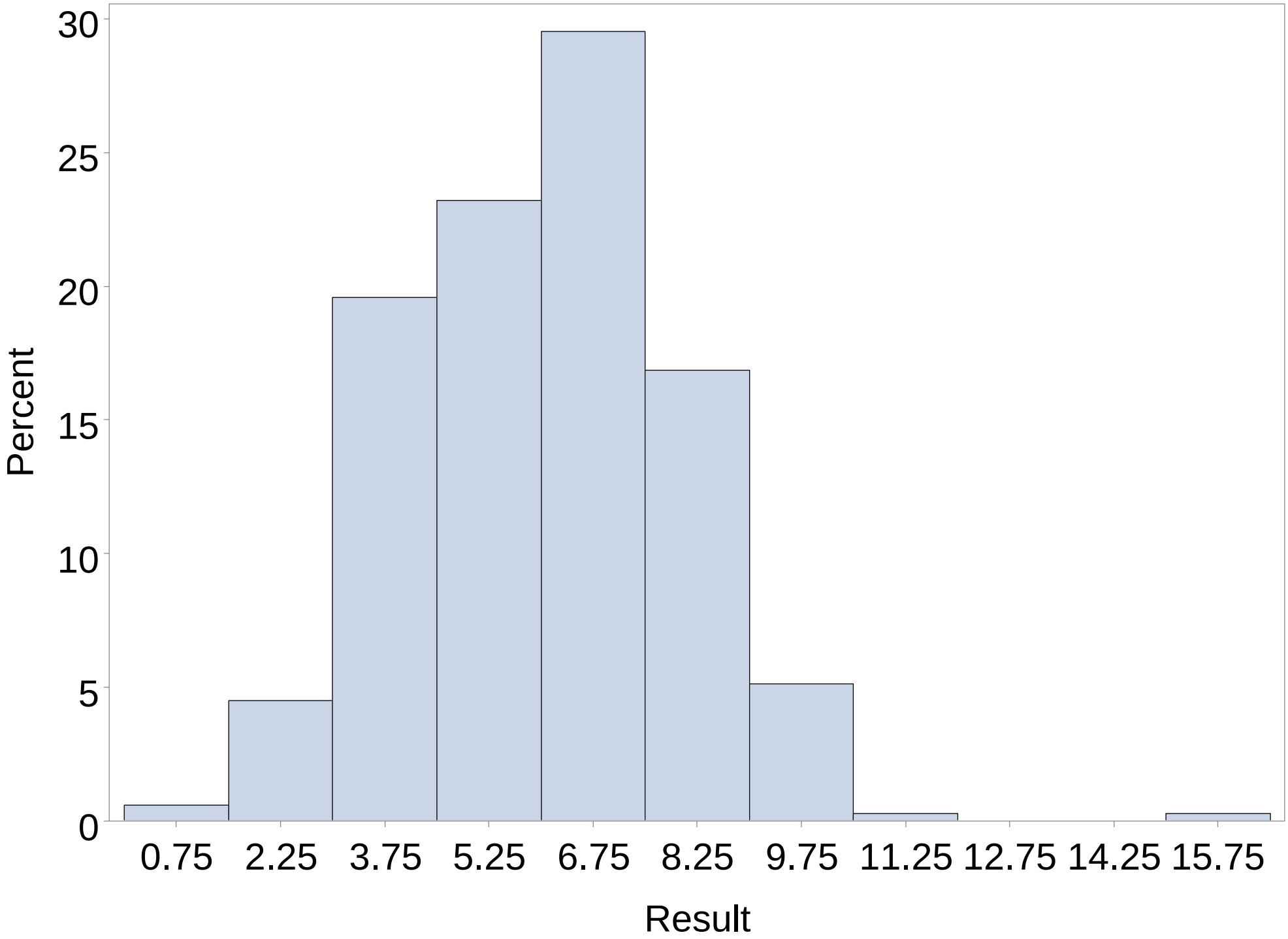
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	54.76989	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.180
99%	10.310
95%	9.110
90%	8.490
75% Q3	7.390
50% Median	6.130
25% Q1	4.505
10%	3.490
5%	2.970
1%	1.660
0% Min	0.130

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.13	29589	10.27	29616
1.46	29518	10.31	29544
1.60	29672	10.49	29639
1.66	29731	10.69	29523
1.69	29613	16.18	29664


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=9
Percent
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=10

Moments			
N	334	**Sum Weights**	334
Mean	6.04053892	**Sum Observations**	2017.54
Std Deviation	2.12915406	**Variance**	4.53329701
Skewness	-0.1543116	**Kurtosis**	0.33260572
Uncorrected SS	13696.6168	**Corrected SS**	1509.5879
Coeff Variation	35.24775	**Std Error Mean**	0.11650213

Basic Statistical Measures			
Location		**Variability**	
Mean	6.040539	**Std Deviation**	2.12915
Median	6.050000	**Variance**	4.53330
Mode	5.000000	**Range**	12.97000
		Interquartile Range	2.74000

Note: The mode displayed is the smallest of 8 modes with a count of 3.

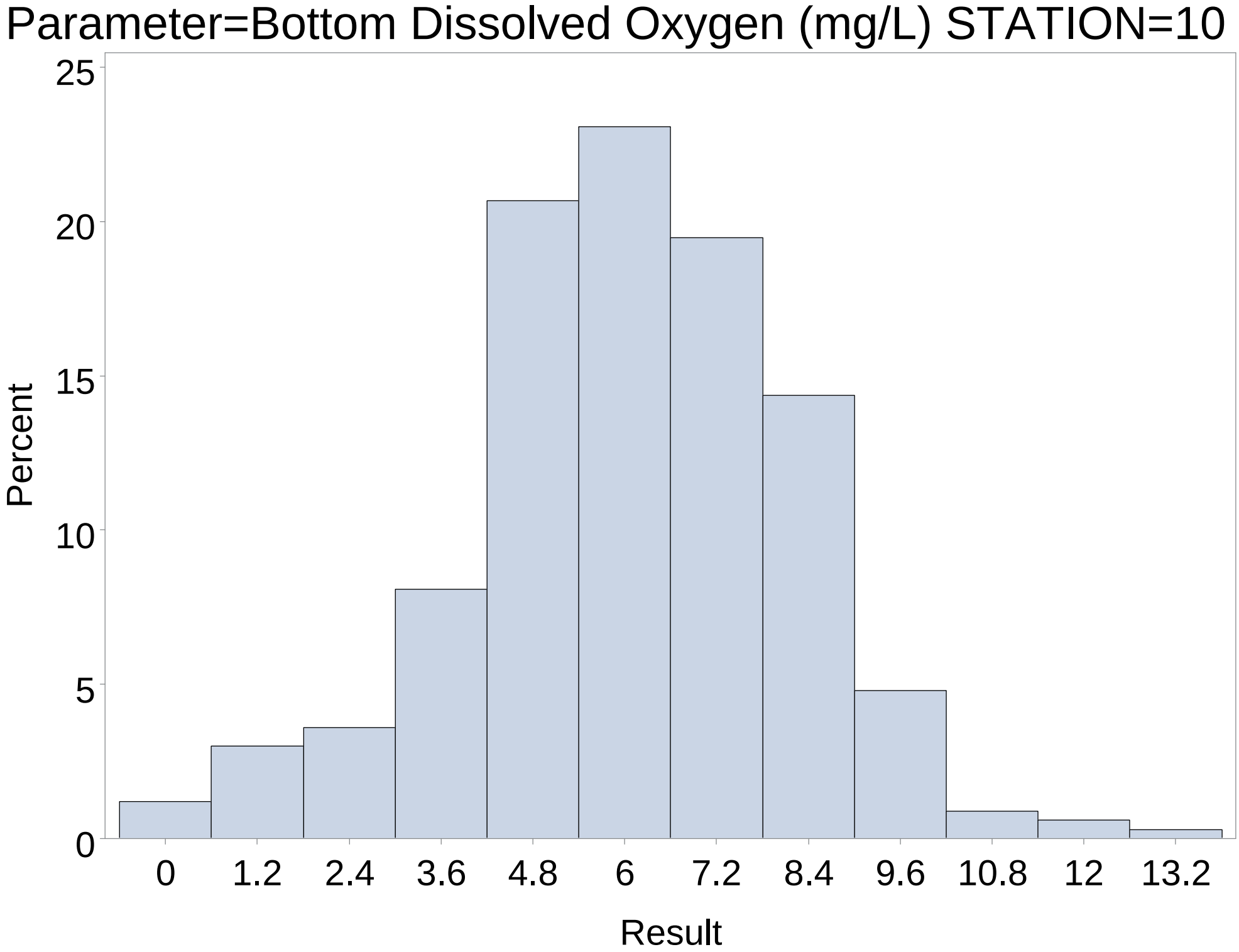
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.84917	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.20
99%	10.48
95%	9.22
90%	8.66
75% Q3	7.49
50% Median	6.05
25% Q1	4.75
10%	3.38
5%	2.00
1%	0.59
0% Min	0.23

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.23	29978	10.41	29997
0.43	30003	10.48	30022
0.59	29943	11.74	29998
0.59	29883	11.77	30012
0.96	29965	13.20	30011


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=10
Percent
25
20
15
10
5
0
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=11

Moments			
N	331	**Sum Weights**	331
Mean	5.83332326	**Sum Observations**	1930.83
Std Deviation	2.16780908	**Variance**	4.6993962
Skewness	-0.1325997	**Kurtosis**	0.10944183
Uncorrected SS	12813.9563	**Corrected SS**	1550.80074
Coeff Variation	37.1625055	**Std Error Mean**	0.11915356

Basic Statistical Measures			
Location		**Variability**	
Mean	5.833323	**Std Deviation**	2.16781
Median	5.840000	**Variance**	4.69940
Mode	4.230000	**Range**	12.41000
		Interquartile Range	2.86000

Note: The mode displayed is the smallest of 6 modes with a count of 3.

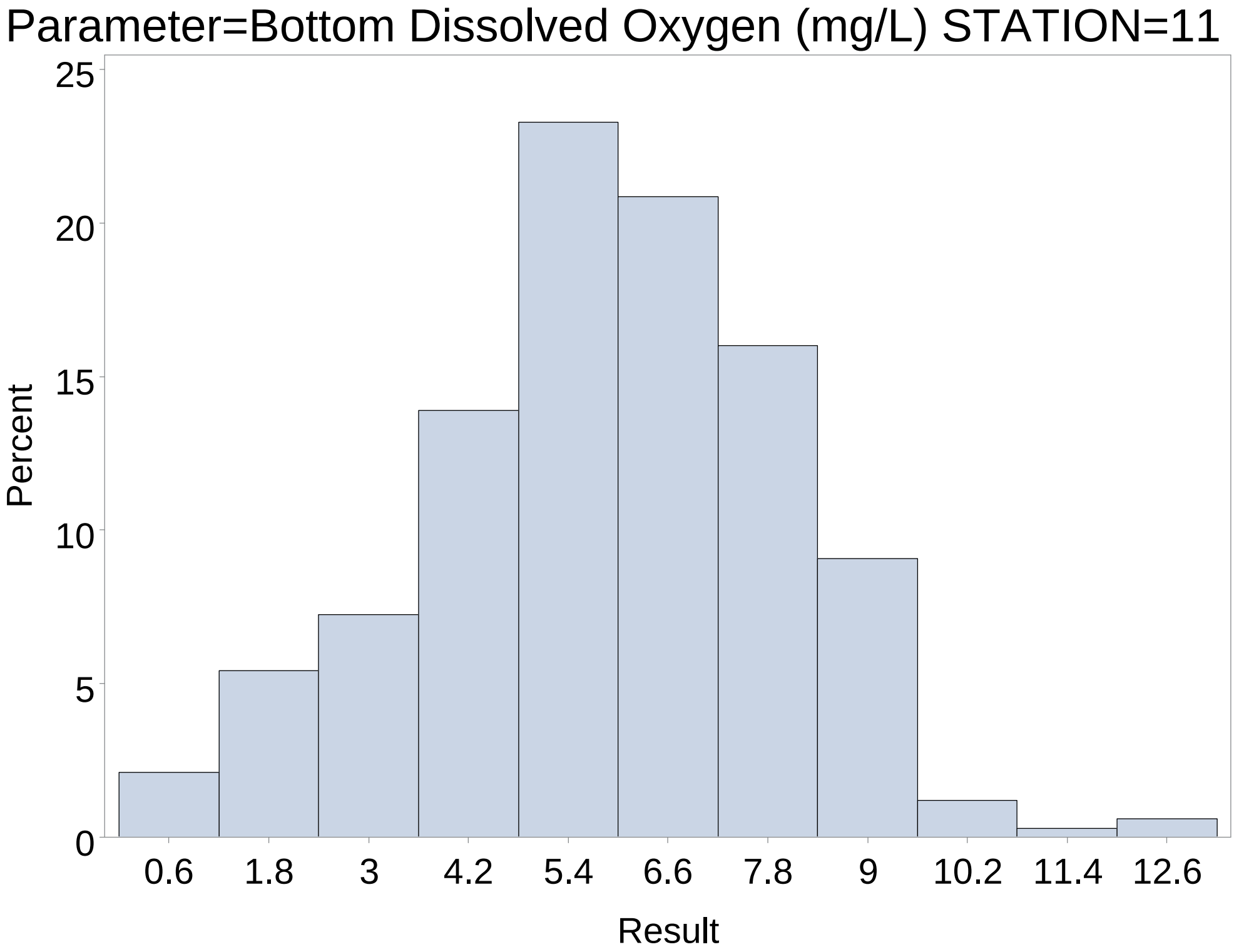
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.95635	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.71
99%	10.40
95%	9.24
90%	8.53
75% Q3	7.36
50% Median	5.84
25% Q1	4.50
10%	2.86
5%	1.76
1%	0.36
0% Min	0.30

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.30	30376	10.18	30238
0.35	30310	10.40	30354
0.36	30358	11.48	30330
0.36	30335	12.19	30344
0.80	30193	12.71	30343


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=11
25
20
15
10
5
0
Percent
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=12

Moments			
N	332	**Sum Weights**	332
Mean	5.355	**Sum Observations**	1777.86
Std Deviation	1.63426795	**Variance**	2.67083172
Skewness	0.51130362	**Kurtosis**	1.12607611
Uncorrected SS	10404.4856	**Corrected SS**	884.0453
Coeff Variation	30.5185424	**Std Error Mean**	0.08969211

Basic Statistical Measures			
Location		**Variability**	
Mean	5.355000	**Std Deviation**	1.63427
Median	5.140000	**Variance**	2.67083
Mode	4.650000	**Range**	11.95000
		Interquartile Range	1.97000

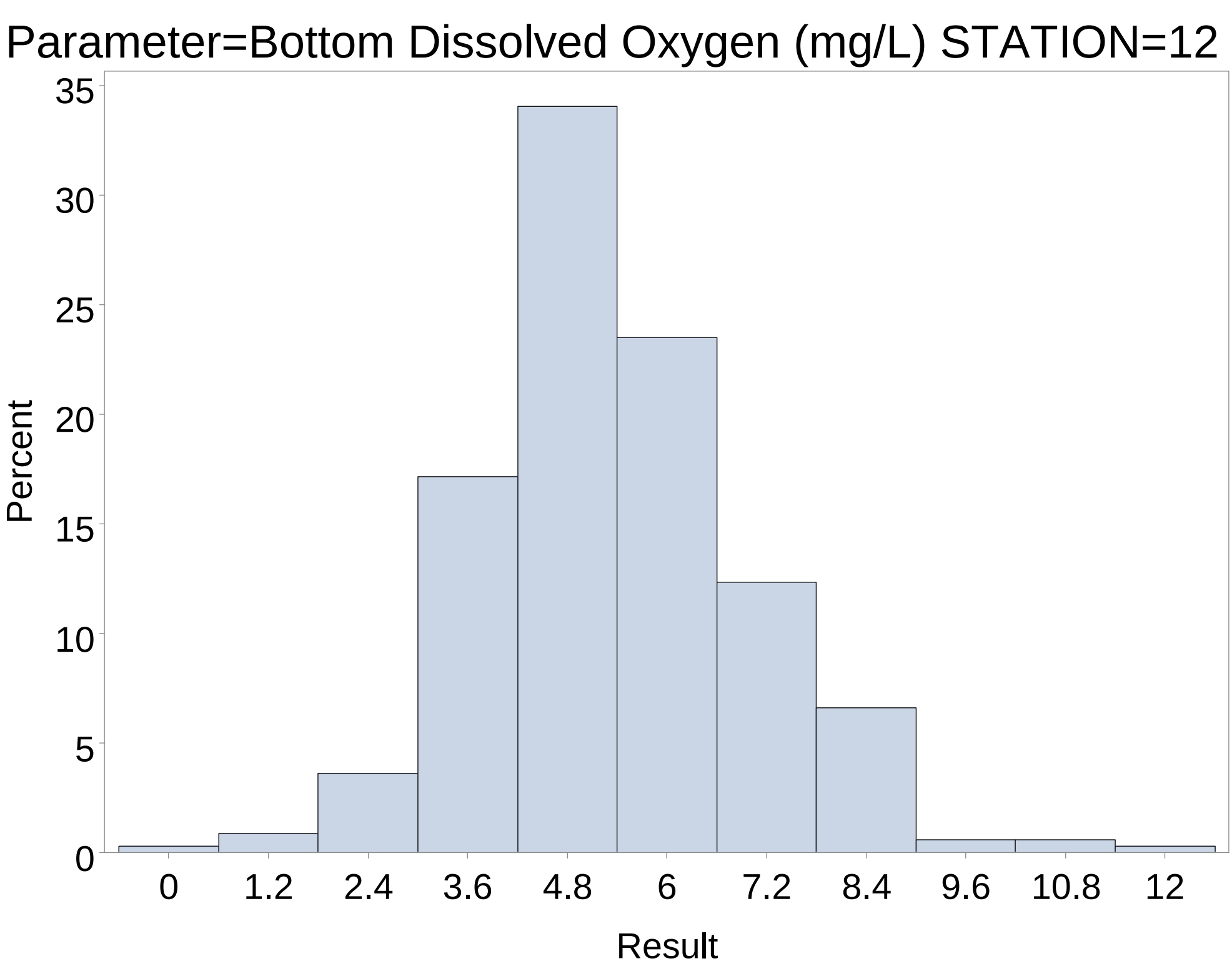
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	59.70425	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.140
99%	9.480
95%	8.250
90%	7.640
75% Q3	6.265
50% Median	5.140
25% Q1	4.295
10%	3.580
5%	3.020
1%	1.720
0% Min	0.190

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.19	30524	9.13	30687
1.30	30632	9.48	30686
1.34	30518	10.68	30569
1.72	30510	10.99	30676
2.06	30630	12.14	30675


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=12
Percent
35
30
25
20
15
10
5
0
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=13

Moments			
N	332	**Sum Weights**	332
Mean	5.53861446	**Sum Observations**	1838.82
Std Deviation	1.61820792	**Variance**	2.61859687
Skewness	0.58216933	**Kurtosis**	1.0358319
Uncorrected SS	11051.2706	**Corrected SS**	866.755563
Coeff Variation	29.2168363	**Std Error Mean**	0.0888107

Basic Statistical Measures			
Location		**Variability**	
Mean	5.538614	**Std Deviation**	1.61821
Median	5.335000	**Variance**	2.61860
Mode	4.690000	**Range**	11.79000
		Interquartile Range	2.11000

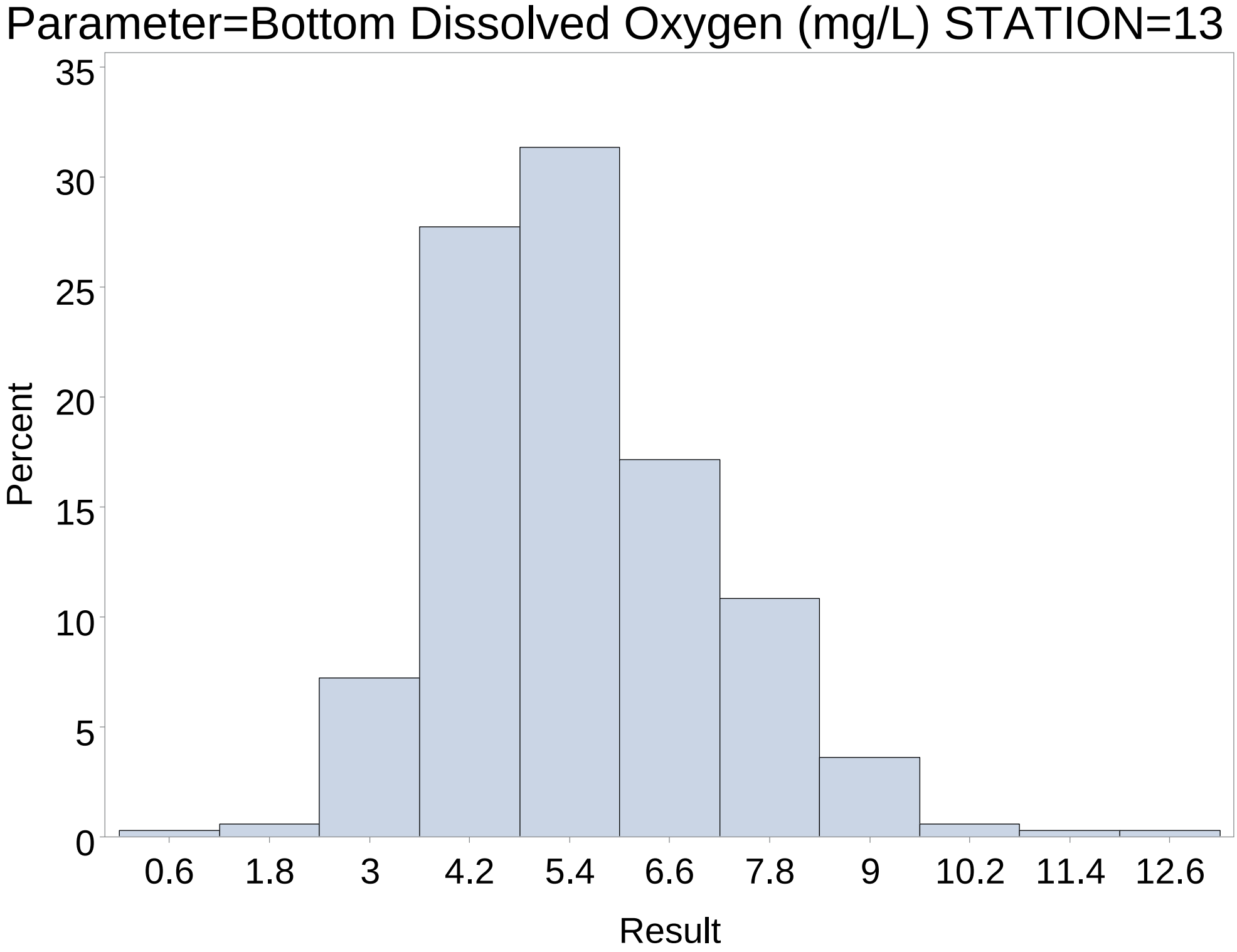
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	62.36427	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.230
99%	9.660
95%	8.320
90%	7.610
75% Q3	6.565
50% Median	5.335
25% Q1	4.455
10%	3.640
5%	3.110
1%	2.660
0% Min	0.440

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.44	30906	9.46	31018
1.57	30856	9.66	30994
2.24	30857	10.68	30901
2.66	30975	11.38	31008
2.68	30879	12.23	31007


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=13
Percent
35
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=14

Moments			
N	331	**Sum Weights**	331
Mean	5.92268882	**Sum Observations**	1960.41
Std Deviation	1.7185698	**Variance**	2.95348214
Skewness	0.51570262	**Kurtosis**	0.51431698
Uncorrected SS	12585.5475	**Corrected SS**	974.649107
Coeff Variation	29.016716	**Std Error Mean**	0.09446114

Basic Statistical Measures			
Location		**Variability**	
Mean	5.922689	**Std Deviation**	1.71857
Median	5.760000	**Variance**	2.95348
Mode	3.780000	**Range**	11.85000
		Interquartile Range	2.57000

Note: The mode displayed is the smallest of 14 modes with a count of 3.

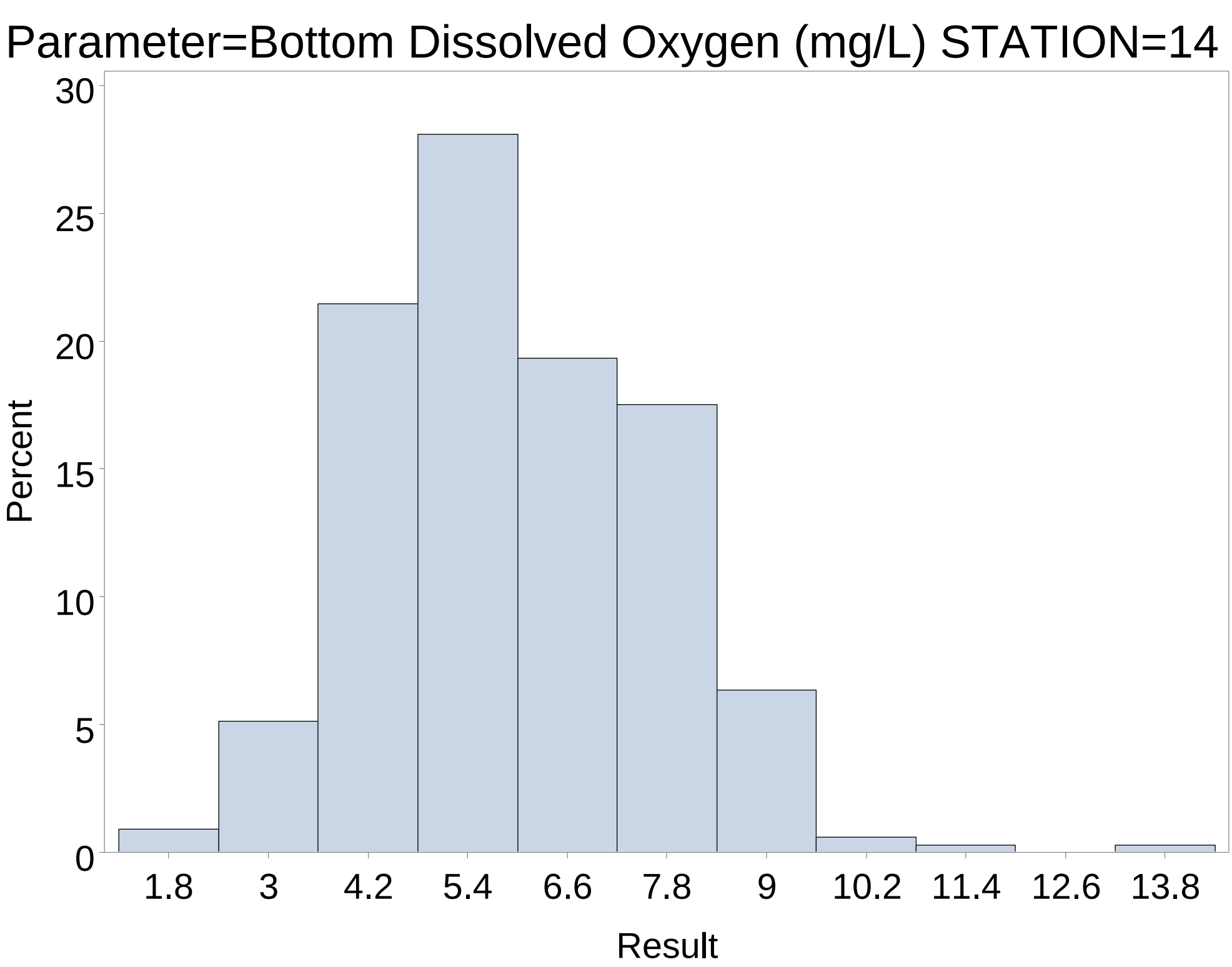
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	62.69974	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.45
99%	9.79
95%	8.79
90%	8.15
75% Q3	7.20
50% Median	5.76
25% Q1	4.63
10%	3.93
5%	3.46
1%	2.77
0% Min	1.60

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.60	31306	9.53	31222
2.08	31189	9.79	31422
2.26	31500	10.51	31181
2.77	31367	11.63	31339
2.90	31414	13.45	31338


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=14
Percent
30
25
20
15
10
5
0
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
13.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=15

Moments			
N	331	**Sum Weights**	331
Mean	5.89800604	**Sum Observations**	1952.24
Std Deviation	1.75387837	**Variance**	3.07608935
Skewness	0.50006084	**Kurtosis**	0.28297242
Uncorrected SS	12529.4328	**Corrected SS**	1015.10948
Coeff Variation	29.7368019	**Std Error Mean**	0.09640187

Basic Statistical Measures			
Location		**Variability**	
Mean	5.898006	**Std Deviation**	1.75388
Median	5.800000	**Variance**	3.07609
Mode	6.950000	**Range**	11.37000
		Interquartile Range	2.53000

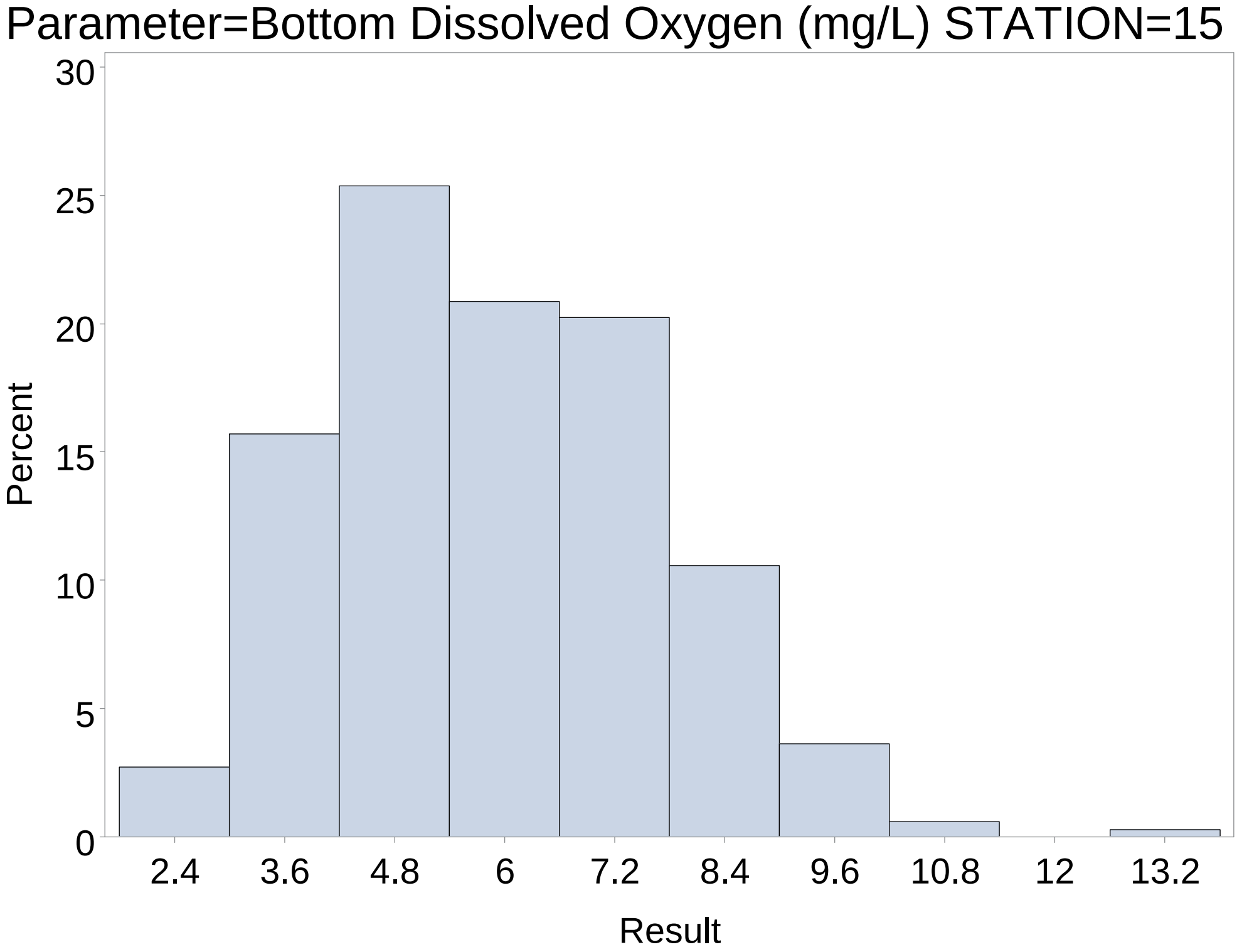
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	61.18145	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.40
99%	10.06
95%	8.76
90%	8.40
75% Q3	7.08
50% Median	5.80
25% Q1	4.55
10%	3.77
5%	3.41
1%	2.70
0% Min	2.03

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.03	31520	9.86	31655
2.32	31831	10.06	31622
2.57	31722	10.57	31665
2.70	31793	10.70	31669
2.80	31725	13.40	31668


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=15
Percent
30
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=16

Moments			
N	332	**Sum Weights**	332
Mean	6.26674699	**Sum Observations**	2080.56
Std Deviation	1.84601611	**Variance**	3.40777549
Skewness	0.41016173	**Kurtosis**	1.08068644
Uncorrected SS	14166.3168	**Corrected SS**	1127.97369
Coeff Variation	29.4573264	**Std Error Mean**	0.1013133

Basic Statistical Measures			
Location		**Variability**	
Mean	6.266747	**Std Deviation**	1.84602
Median	6.305000	**Variance**	3.40778
Mode	6.600000	**Range**	13.52000
		Interquartile Range	2.70000

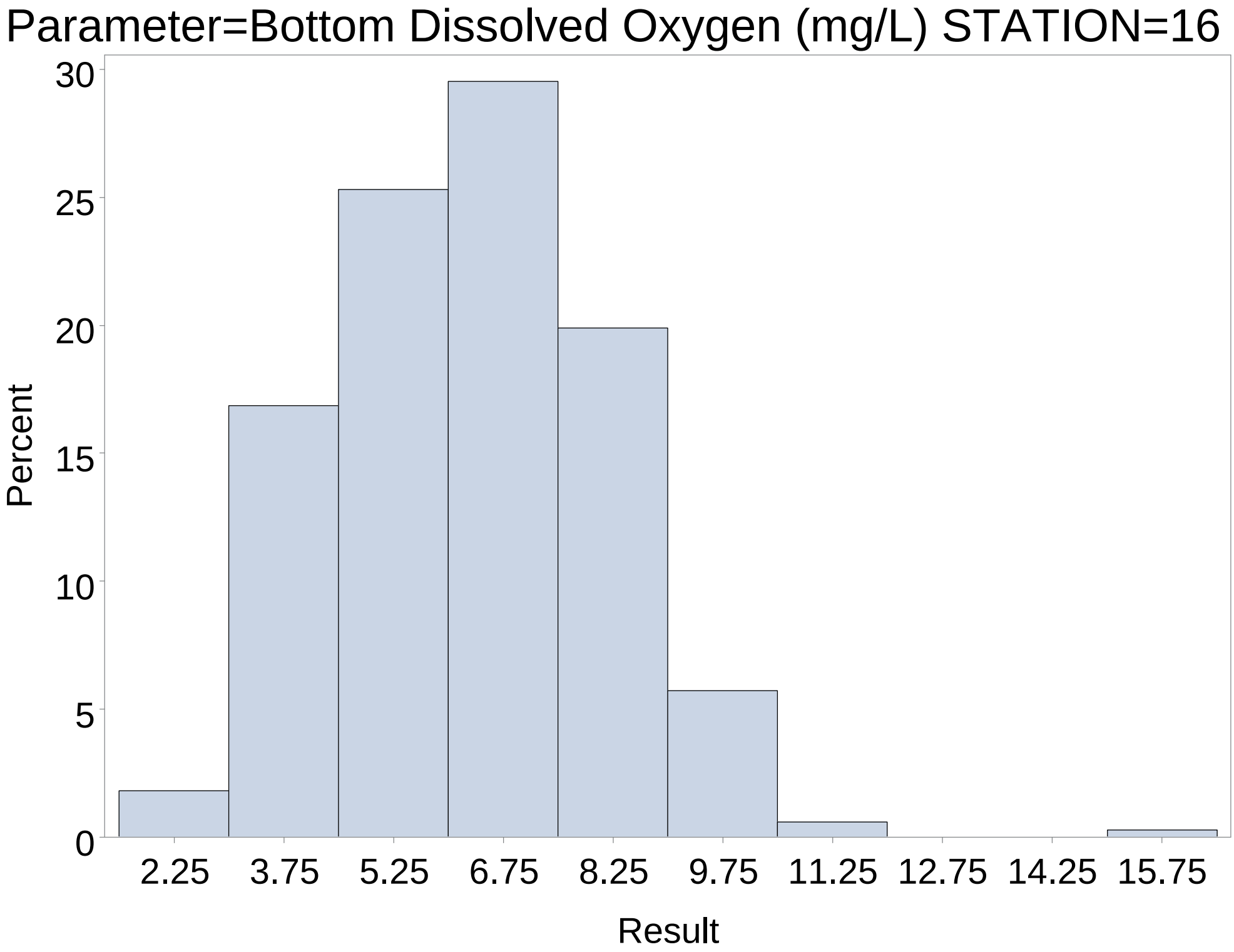
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	61.85513	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.610
99%	10.310
95%	9.080
90%	8.600
75% Q3	7.525
50% Median	6.305
25% Q1	4.825
10%	3.780
5%	3.280
1%	2.880
0% Min	2.090

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.09	31851	10.25	31846
2.69	32054	10.31	32001
2.76	31995	10.78	31977
2.88	32126	10.95	31997
2.88	32125	15.61	31987


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=16
Percent
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=17

Moments			
N	331	**Sum Weights**	331
Mean	6.32942598	**Sum Observations**	2095.04
Std Deviation	1.90835991	**Variance**	3.64183755
Skewness	0.43686311	**Kurtosis**	1.98798306
Uncorrected SS	14462.207	**Corrected SS**	1201.80639
Coeff Variation	30.1506	**Std Error Mean**	0.10489295

Basic Statistical Measures			
Location		**Variability**	
Mean	6.329426	**Std Deviation**	1.90836
Median	6.390000	**Variance**	3.64184
Mode	6.900000	**Range**	16.47000
		Interquartile Range	2.61000

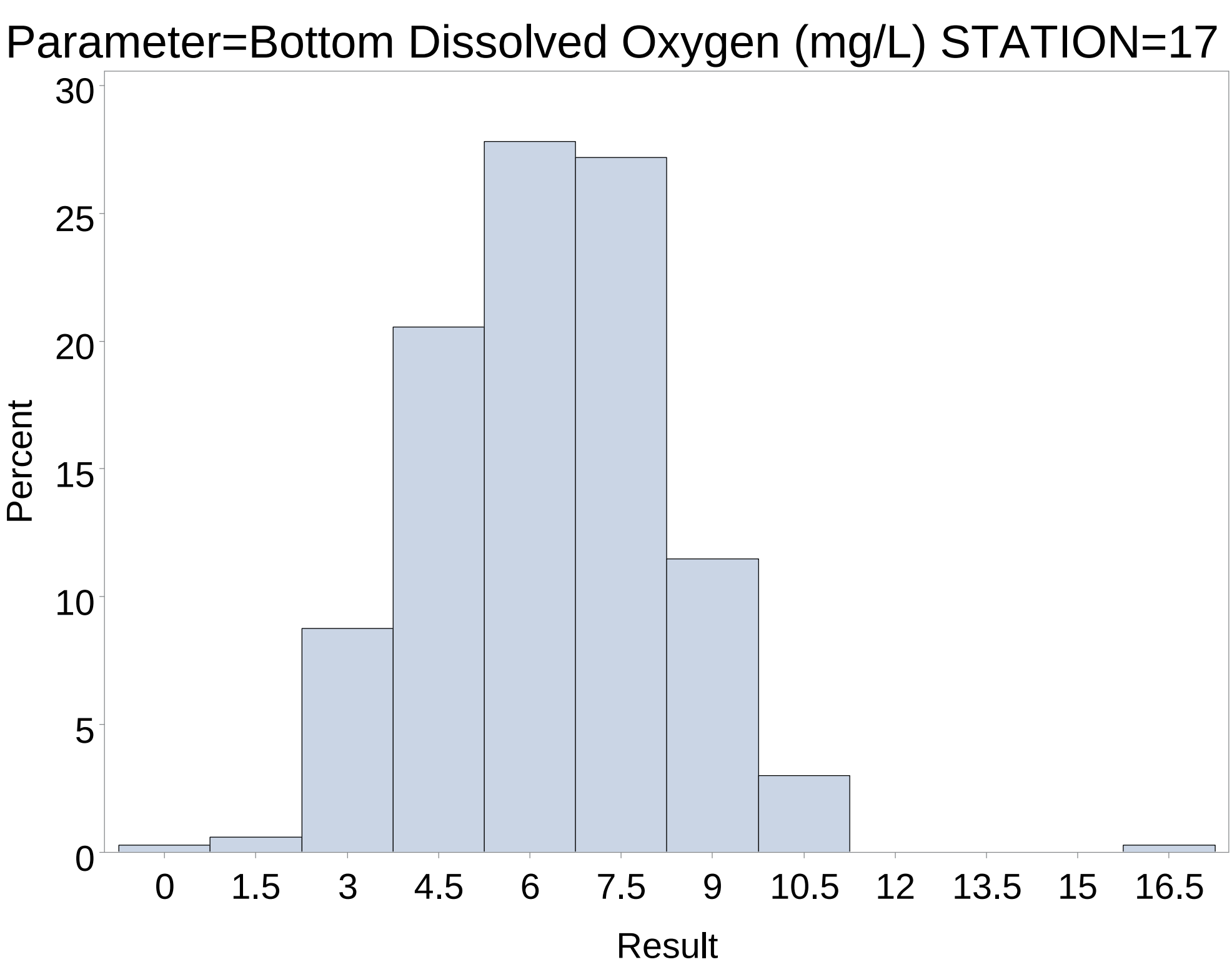
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	60.34177	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.79
99%	10.45
95%	9.30
90%	8.72
75% Q3	7.50
50% Median	6.39
25% Q1	4.89
10%	3.79
5%	3.46
1%	2.52
0% Min	0.32

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.32	32244	10.38	32488
1.97	32195	10.45	32321
2.18	32183	10.51	32332
2.52	32385	10.65	32348
2.84	32456	16.79	32318


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=17
Percent
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=18

Moments			
N	328	**Sum Weights**	328
Mean	6.06746951	**Sum Observations**	1990.13
Std Deviation	2.01962754	**Variance**	4.07889541
Skewness	0.803554	**Kurtosis**	2.90812156
Uncorrected SS	13408.8519	**Corrected SS**	1333.7988
Coeff Variation	33.2861589	**Std Error Mean**	0.11151528

Basic Statistical Measures			
Location		**Variability**	
Mean	6.067470	**Std Deviation**	2.01963
Median	5.965000	**Variance**	4.07890
Mode	3.000000	**Range**	16.27000
		Interquartile Range	2.85000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

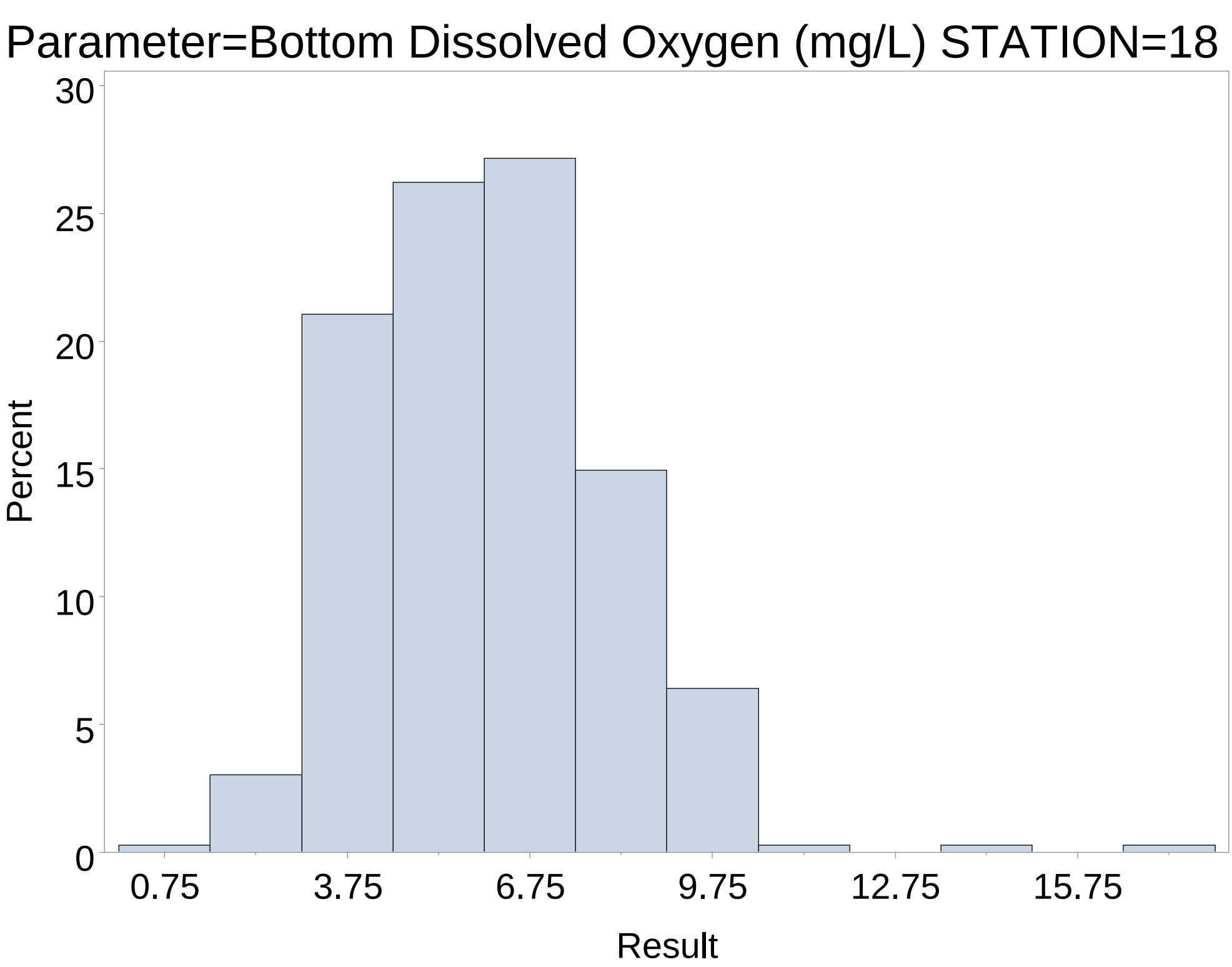
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	54.40931	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.420
99%	10.390
95%	9.160
90%	8.550
75% Q3	7.360
50% Median	5.965
25% Q1	4.510
10%	3.590
5%	3.100
1%	2.150
0% Min	1.150

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.15	32655	10.34	32657
1.51	32809	10.39	32621
2.13	32760	11.88	32511
2.15	32822	14.37	32647
2.35	32785	17.42	32660


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=18
Percent
30
25
20
15
10
5
0
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=19

Moments			
N	331	**Sum Weights**	331
Mean	6.1802719	**Sum Observations**	2045.67
Std Deviation	2.02627923	**Variance**	4.1058075
Skewness	0.16296267	**Kurtosis**	0.60062824
Uncorrected SS	13997.7133	**Corrected SS**	1354.91648
Coeff Variation	32.7862472	**Std Error Mean**	0.11137438

Basic Statistical Measures			
Location		**Variability**	
Mean	6.180272	**Std Deviation**	2.02628
Median	6.370000	**Variance**	4.10581
Mode	6.110000	**Range**	13.51000
		Interquartile Range	2.98000

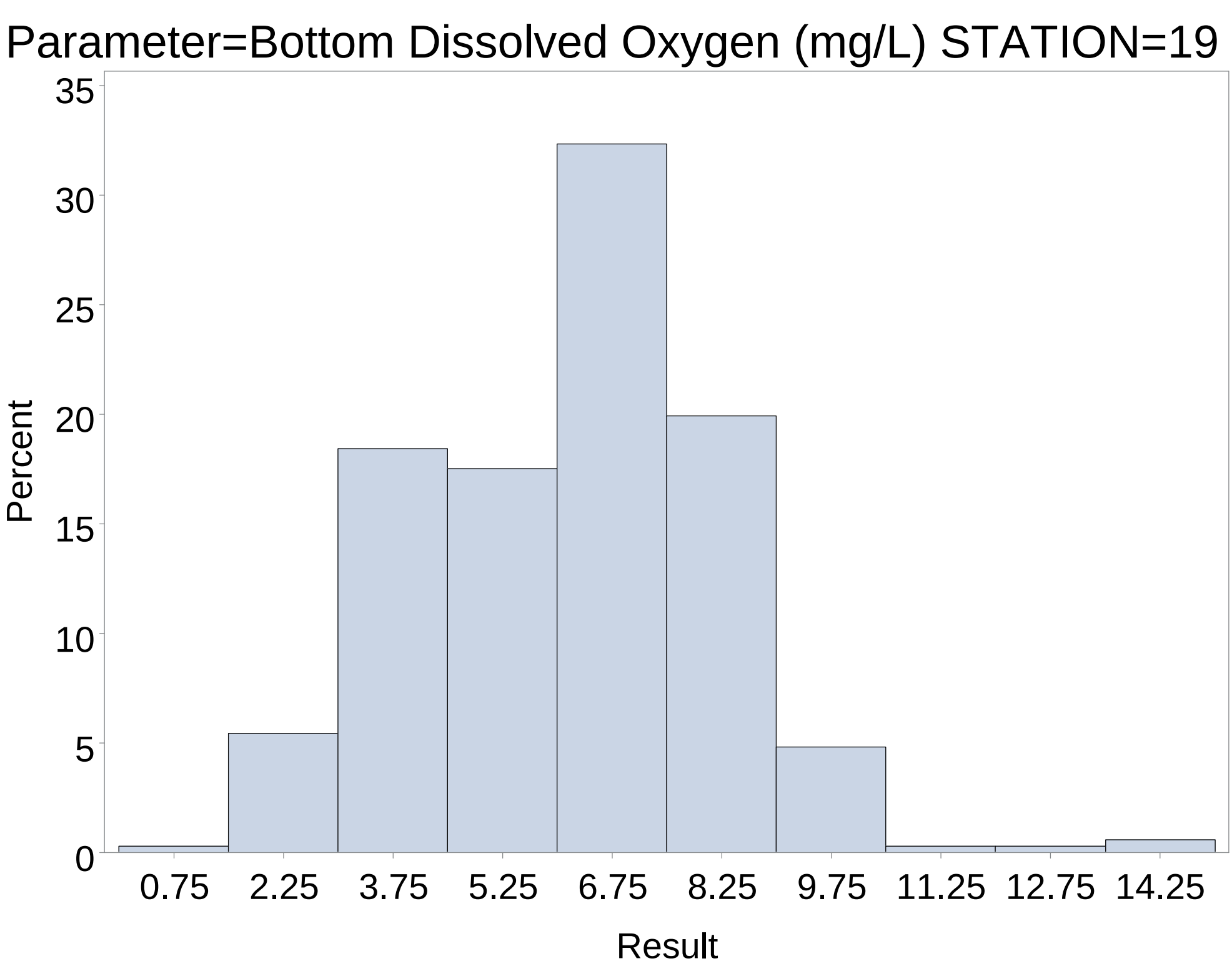
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.49097	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.25
99%	10.97
95%	9.24
90%	8.60
75% Q3	7.56
50% Median	6.37
25% Q1	4.58
10%	3.55
5%	2.94
1%	1.82
0% Min	0.74

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.74	32903	10.27	32992
1.62	32832	10.97	32991
1.75	32985	12.50	32837
1.82	32927	13.69	32978
1.87	32986	14.25	33008


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=19
Percent
35
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	3.71	**Sum Observations**	3.71
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	13.7641	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	3.710000	**Std Deviation**	.
Median	3.710000	**Variance**	.
Mode	3.710000	**Range**	0
		Interquartile Range	0

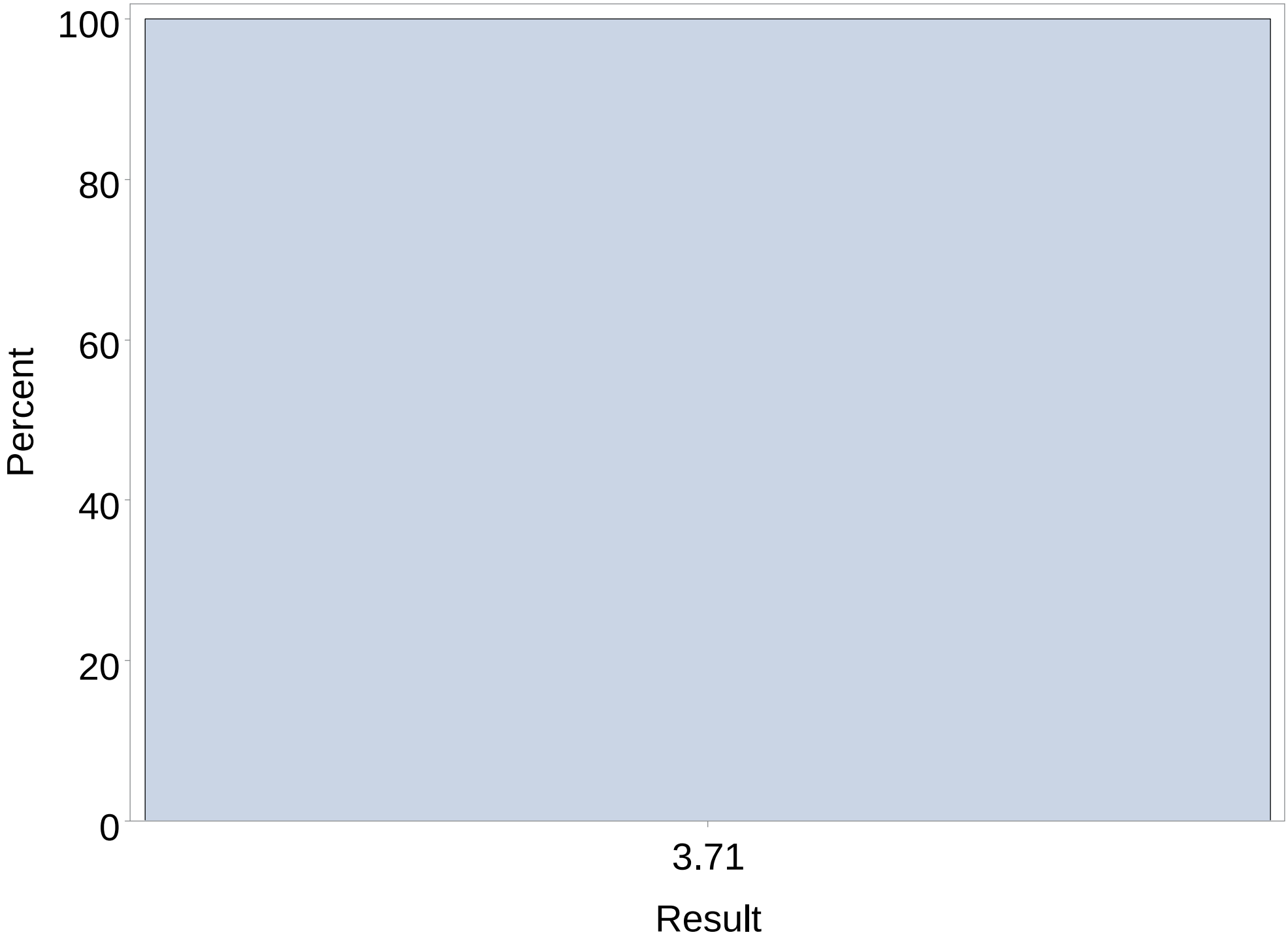
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.71
99%	3.71
95%	3.71
90%	3.71
75% Q3	3.71
50% Median	3.71
25% Q1	3.71
10%	3.71
5%	3.71
1%	3.71
0% Min	3.71

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Dissolved Oxygen (mg/L) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.71	33156	3.71	33156


Parameter=Bottom Dissolved Oxygen (mg/L) STATION=22
100
80
60
40
20
0
Percent
3.71
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=1

Moments			
N	333	**Sum Weights**	333
Mean	5.76099099	**Sum Observations**	1918.41
Std Deviation	1.59734057	**Variance**	2.55149691
Skewness	0.25556473	**Kurtosis**	0.59991325
Uncorrected SS	11899.0397	**Corrected SS**	847.096973
Coeff Variation	27.7268369	**Std Error Mean**	0.08753372

Basic Statistical Measures			
Location		**Variability**	
Mean	5.760991	**Std Deviation**	1.59734
Median	5.610000	**Variance**	2.55150
Mode	4.700000	**Range**	10.07000
		Interquartile Range	2.12000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

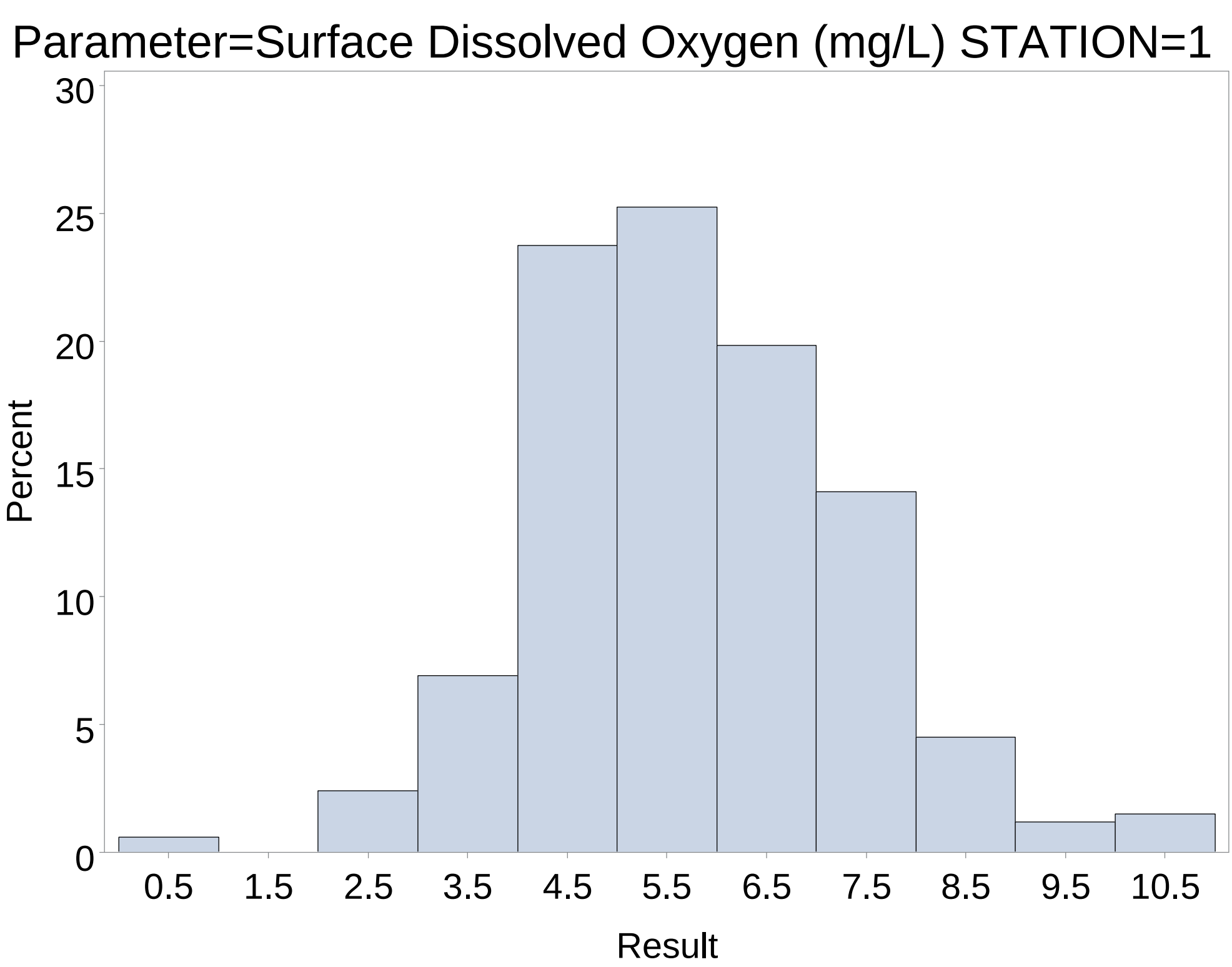
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.81453	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.60
99%	10.43
95%	8.50
90%	7.78
75% Q3	6.79
50% Median	5.61
25% Q1	4.67
10%	4.00
5%	3.45
1%	2.40
0% Min	0.53

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.53	33249	10.36	33324
0.56	33174	10.43	33325
2.26	33474	10.46	33382
2.40	33423	10.60	33270
2.53	33471	10.60	33276


Parameter=Surface Dissolved Oxygen (mg/L) STATION=1
Percent
30
25
20
15
10
5
0
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=2

Moments			
N	331	**Sum Weights**	331
Mean	5.86057402	**Sum Observations**	1939.85
Std Deviation	1.6693606	**Variance**	2.78676482
Skewness	0.73831684	**Kurtosis**	1.45616379
Uncorrected SS	12288.2669	**Corrected SS**	919.632391
Coeff Variation	28.4845921	**Std Error Mean**	0.09175636

Basic Statistical Measures			
Location		**Variability**	
Mean	5.860574	**Std Deviation**	1.66936
Median	5.720000	**Variance**	2.78676
Mode	5.100000	**Range**	11.94000
		Interquartile Range	2.33000

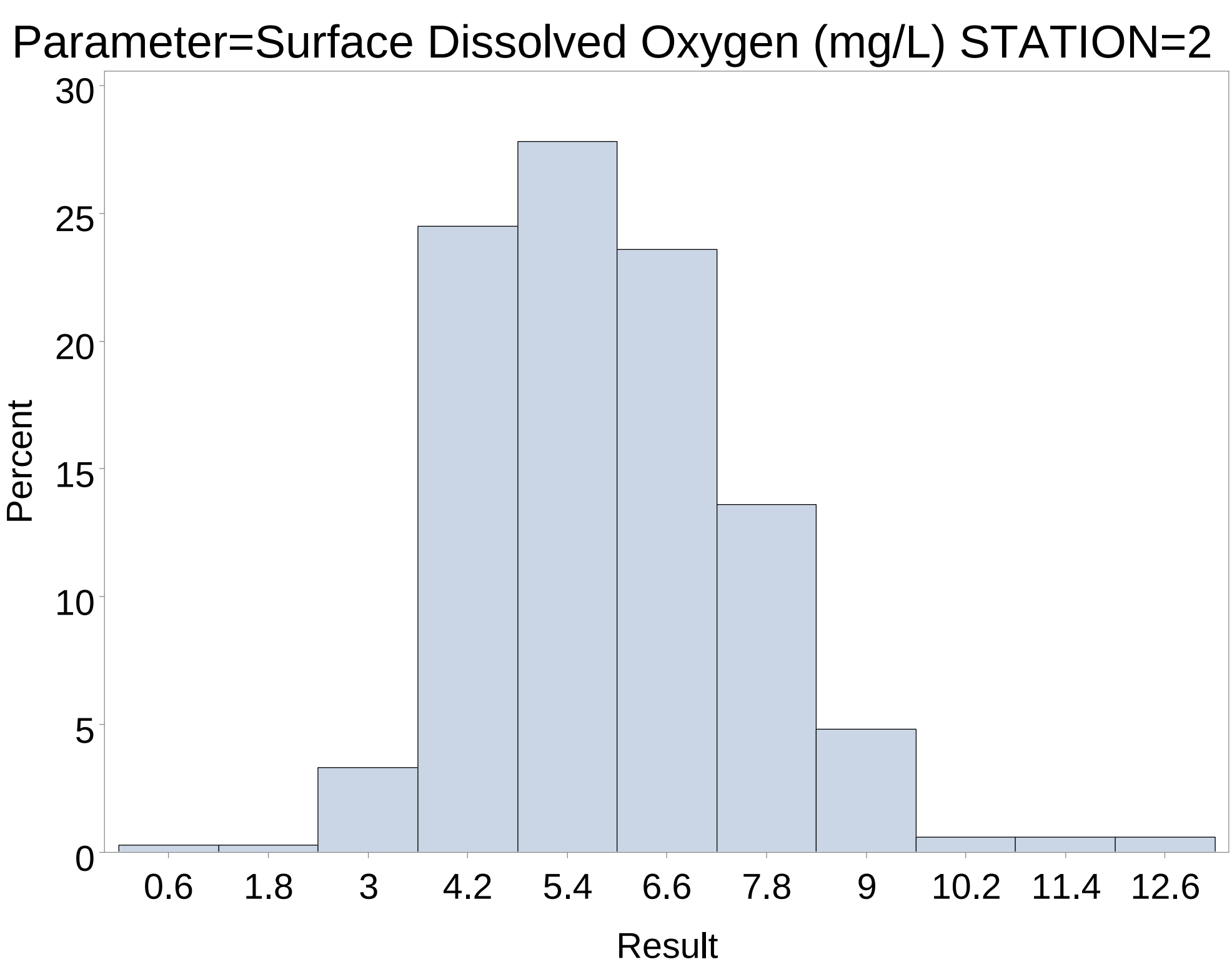
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	63.87104	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.86
99%	11.62
95%	8.65
90%	7.93
75% Q3	6.94
50% Median	5.72
25% Q1	4.61
10%	3.94
5%	3.69
1%	2.74
0% Min	0.92

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.92	33582	10.23	33513
2.21	33805	11.62	33580
2.65	33734	11.77	33655
2.74	33507	12.38	33601
2.98	33718	12.86	33656


Parameter=Surface Dissolved Oxygen (mg/L) STATION=2
Percent
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=3

Moments			
N	326	**Sum Weights**	326
Mean	5.76932515	**Sum Observations**	1880.8
Std Deviation	2.18651324	**Variance**	4.78084016
Skewness	0.22856215	**Kurtosis**	0.10642795
Uncorrected SS	12404.7198	**Corrected SS**	1553.77305
Coeff Variation	37.8989428	**Std Error Mean**	0.12109977

Basic Statistical Measures			
Location		**Variability**	
Mean	5.769325	**Std Deviation**	2.18651
Median	5.955000	**Variance**	4.78084
Mode	2.910000	**Range**	13.55000
		Interquartile Range	3.33000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

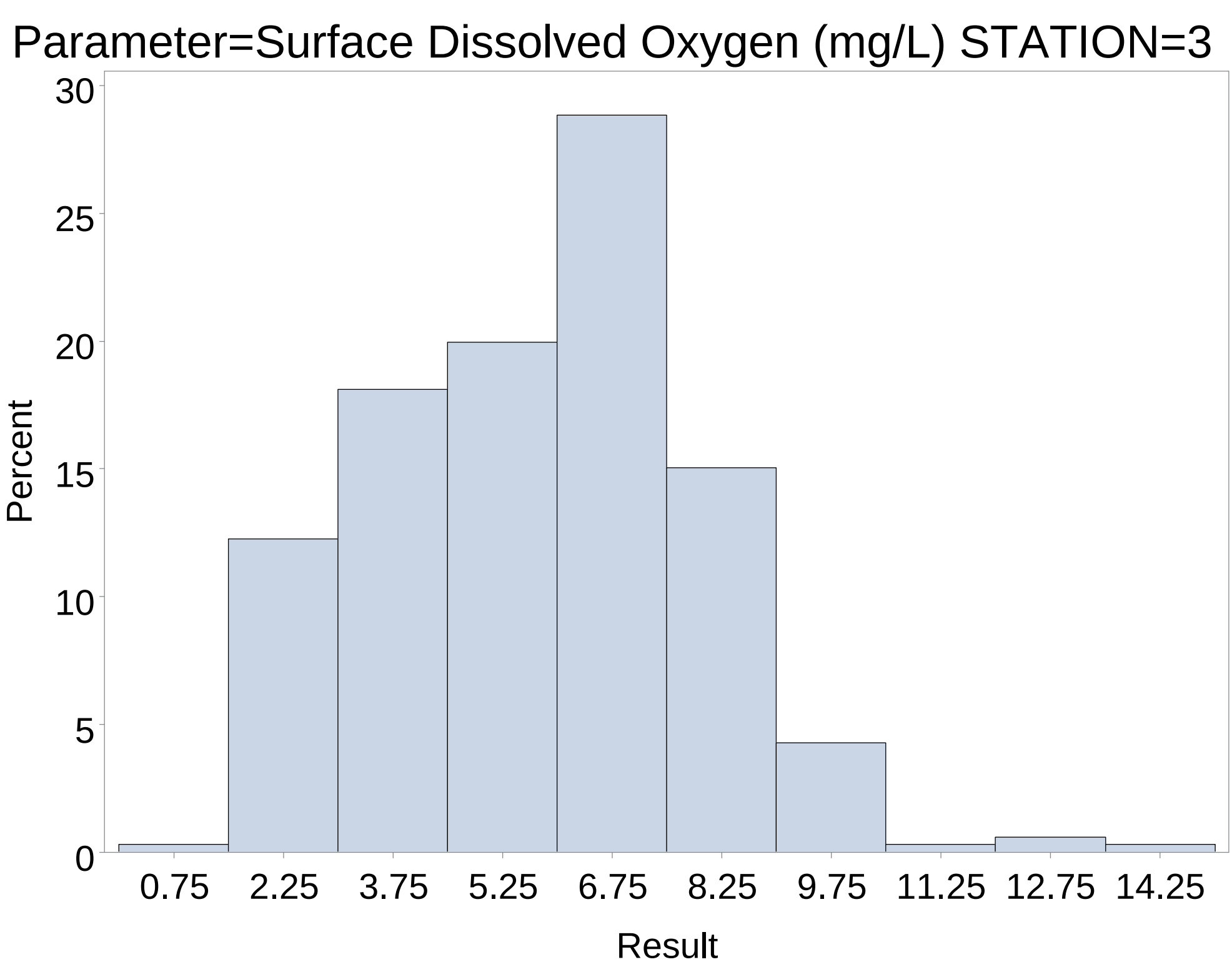
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.64109	**Pr > |t|**	<.0001
Sign	**M**	163	**Pr >= |M|**	<.0001
Signed Rank	**S**	26650.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.430
99%	11.100
95%	9.270
90%	8.390
75% Q3	7.300
50% Median	5.955
25% Q1	3.970
10%	2.900
5%	2.390
1%	1.780
0% Min	0.880

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.88	33838	10.12	33974
1.65	34131	11.10	33939
1.72	33826	12.12	33988
1.78	33862	12.81	33933
1.80	34141	14.43	33987


Parameter=Surface Dissolved Oxygen (mg/L) STATION=3
Percent
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=4

Moments			
N	332	**Sum Weights**	332
Mean	6.65912651	**Sum Observations**	2210.83
Std Deviation	1.6474617	**Variance**	2.71413005
Skewness	0.38562305	**Kurtosis**	0.21630779
Uncorrected SS	15620.5737	**Corrected SS**	898.377047
Coeff Variation	24.7399069	**Std Error Mean**	0.09041621

Basic Statistical Measures			
Location		**Variability**	
Mean	6.659127	**Std Deviation**	1.64746
Median	6.530000	**Variance**	2.71413
Mode	4.350000	**Range**	10.61000
		Interquartile Range	2.25500

Note: The mode displayed is the smallest of 10 modes with a count of 3.

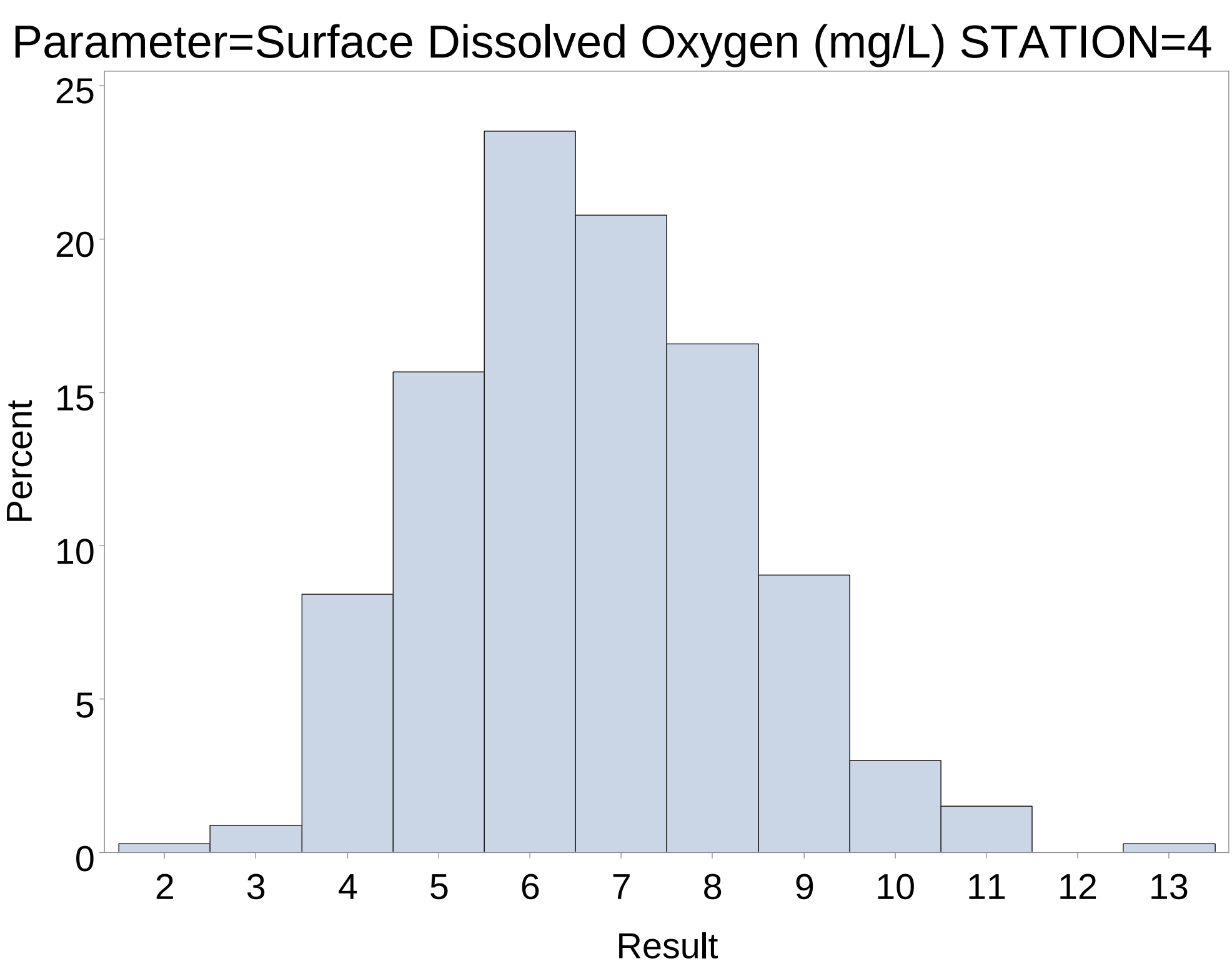
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	73.6497	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.050
99%	11.120
95%	9.460
90%	8.830
75% Q3	7.745
50% Median	6.530
25% Q1	5.490
10%	4.590
5%	4.070
1%	3.450
0% Min	2.440

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.44	34164	10.80	34299
3.16	34262	11.12	34300
3.24	34374	11.18	34208
3.45	34370	11.18	34314
3.77	34439	13.05	34313


Parameter=Surface Dissolved Oxygen (mg/L) STATION=4
Percent
25
20
15
10
5
0
2
3
4
5
6
7
8
9
10
11
12
13
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=5

Moments			
N	333	**Sum Weights**	333
Mean	6.46222222	**Sum Observations**	2151.92
Std Deviation	1.74438786	**Variance**	3.04288902
Skewness	0.37485399	**Kurtosis**	0.72593159
Uncorrected SS	14916.4244	**Corrected SS**	1010.23916
Coeff Variation	26.9936224	**Std Error Mean**	0.09559187

Basic Statistical Measures			
Location		**Variability**	
Mean	6.462222	**Std Deviation**	1.74439
Median	6.310000	**Variance**	3.04289
Mode	5.430000	**Range**	13.68000
		Interquartile Range	2.38000

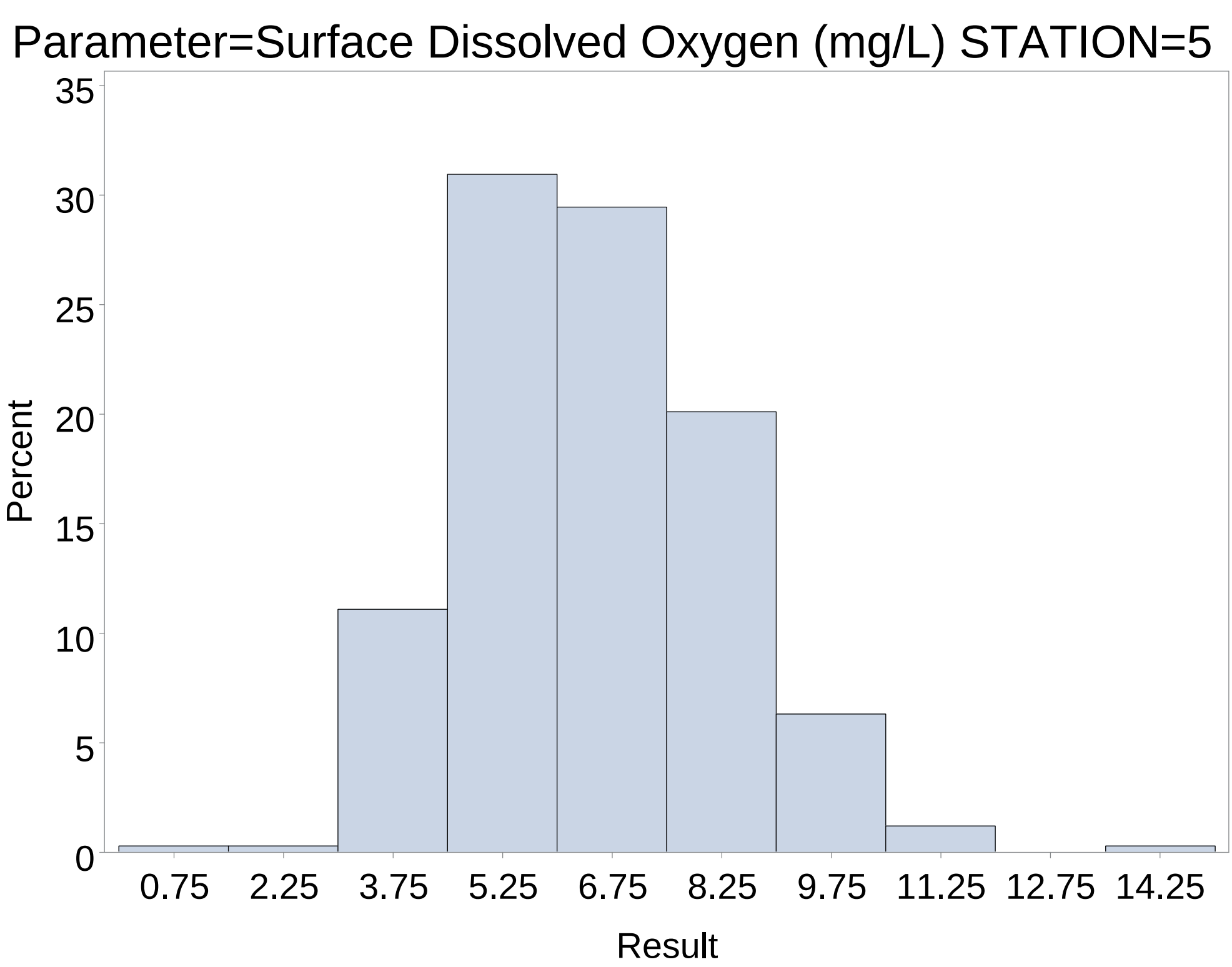
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	67.60222	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.10
99%	10.56
95%	9.31
90%	8.85
75% Q3	7.64
50% Median	6.31
25% Q1	5.26
10%	4.34
5%	3.96
1%	3.13
0% Min	0.42

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.42	34755	10.52	34541
2.19	34496	10.56	34633
3.01	34707	10.57	34530
3.13	34796	11.61	34647
3.28	34675	14.10	34685


Parameter=Surface Dissolved Oxygen (mg/L) STATION=5
Percent
35
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=6

Moments			
N	332	**Sum Weights**	332
Mean	6.46180723	**Sum Observations**	2145.32
Std Deviation	1.76889755	**Variance**	3.12899854
Skewness	0.39088399	**Kurtosis**	0.2286908
Uncorrected SS	14898.3428	**Corrected SS**	1035.69852
Coeff Variation	27.3746567	**Std Error Mean**	0.09708087

Basic Statistical Measures			
Location		**Variability**	
Mean	6.461807	**Std Deviation**	1.76890
Median	6.345000	**Variance**	3.12900
Mode	6.060000	**Range**	11.78000
		Interquartile Range	2.59500

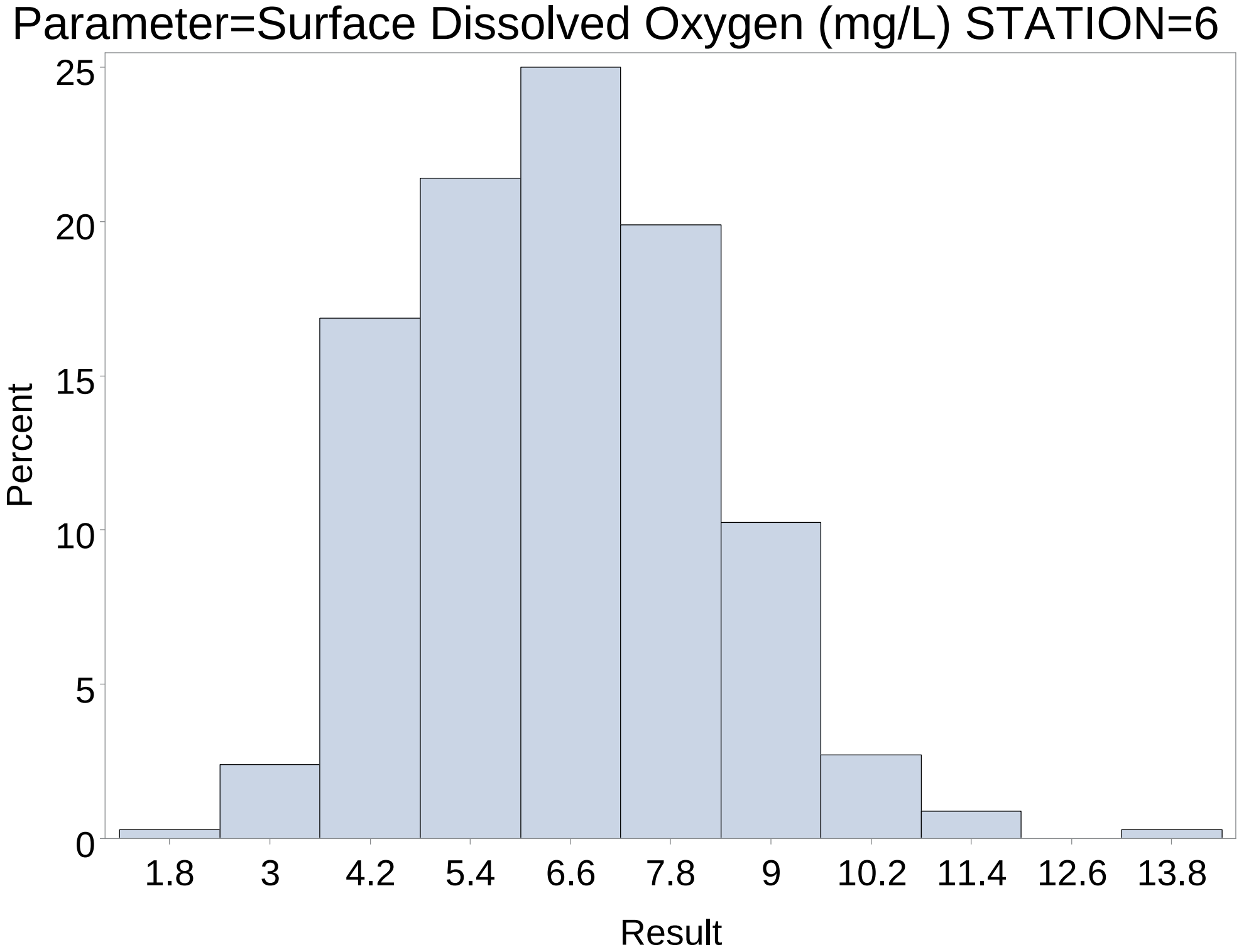
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	66.56108	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.940
99%	10.870
95%	9.420
90%	8.690
75% Q3	7.695
50% Median	6.345
25% Q1	5.100
10%	4.210
5%	3.880
1%	3.040
0% Min	2.160

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.16	34829	10.58	34921
2.90	35032	10.87	34886
3.04	35039	10.88	35132
3.04	35035	11.18	34979
3.10	35007	13.94	34978


Parameter=Surface Dissolved Oxygen (mg/L) STATION=6
Percent
25
20
15
10
5
0
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
13.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=7

Moments			
N	332	**Sum Weights**	332
Mean	6.62834337	**Sum Observations**	2200.61
Std Deviation	1.80962715	**Variance**	3.27475042
Skewness	0.25112563	**Kurtosis**	-0.0157821
Uncorrected SS	15670.3411	**Corrected SS**	1083.94239
Coeff Variation	27.3013489	**Std Error Mean**	0.09931619

Basic Statistical Measures			
Location		**Variability**	
Mean	6.628343	**Std Deviation**	1.80963
Median	6.745000	**Variance**	3.27475
Mode	7.060000	**Range**	10.81000
		Interquartile Range	2.50500

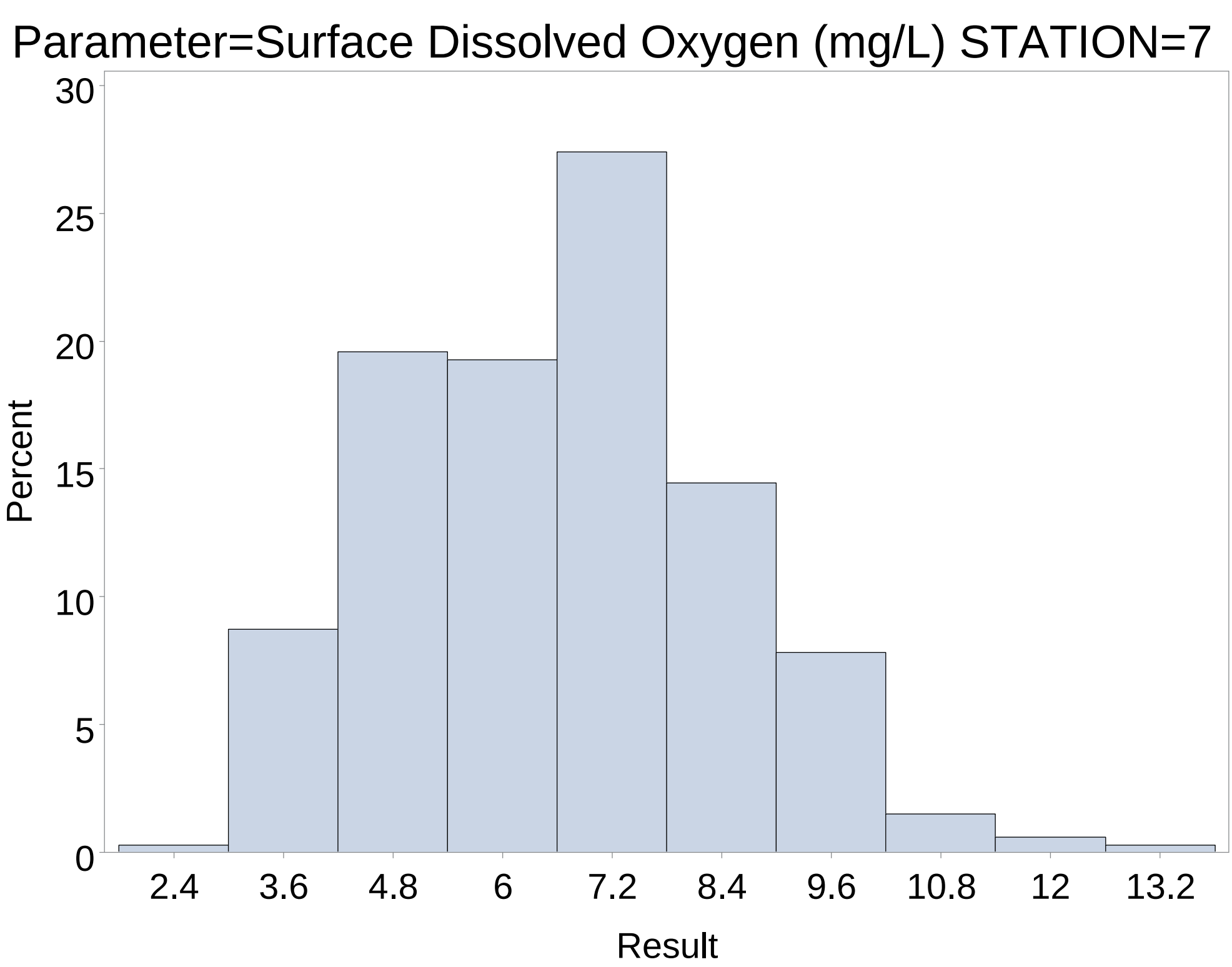
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	66.73981	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.970
99%	11.190
95%	9.580
90%	9.000
75% Q3	7.785
50% Median	6.745
25% Q1	5.280
10%	4.400
5%	3.750
1%	3.050
0% Min	2.160

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.16	35161	10.74	35287
3.00	35367	11.19	35297
3.03	35435	11.80	35464
3.05	35364	12.03	35307
3.06	35460	12.97	35310


Parameter=Surface Dissolved Oxygen (mg/L) STATION=7
Percent
30
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=8

Moments			
N	322	**Sum Weights**	322
Mean	6.76590062	**Sum Observations**	2178.62
Std Deviation	2.104828	**Variance**	4.4303009
Skewness	0.7132328	**Kurtosis**	3.19402079
Uncorrected SS	16162.453	**Corrected SS**	1422.12659
Coeff Variation	31.1093543	**Std Error Mean**	0.11729748

Basic Statistical Measures			
Location		**Variability**	
Mean	6.765901	**Std Deviation**	2.10483
Median	6.755000	**Variance**	4.43030
Mode	5.610000	**Range**	17.11000
		Interquartile Range	2.52000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

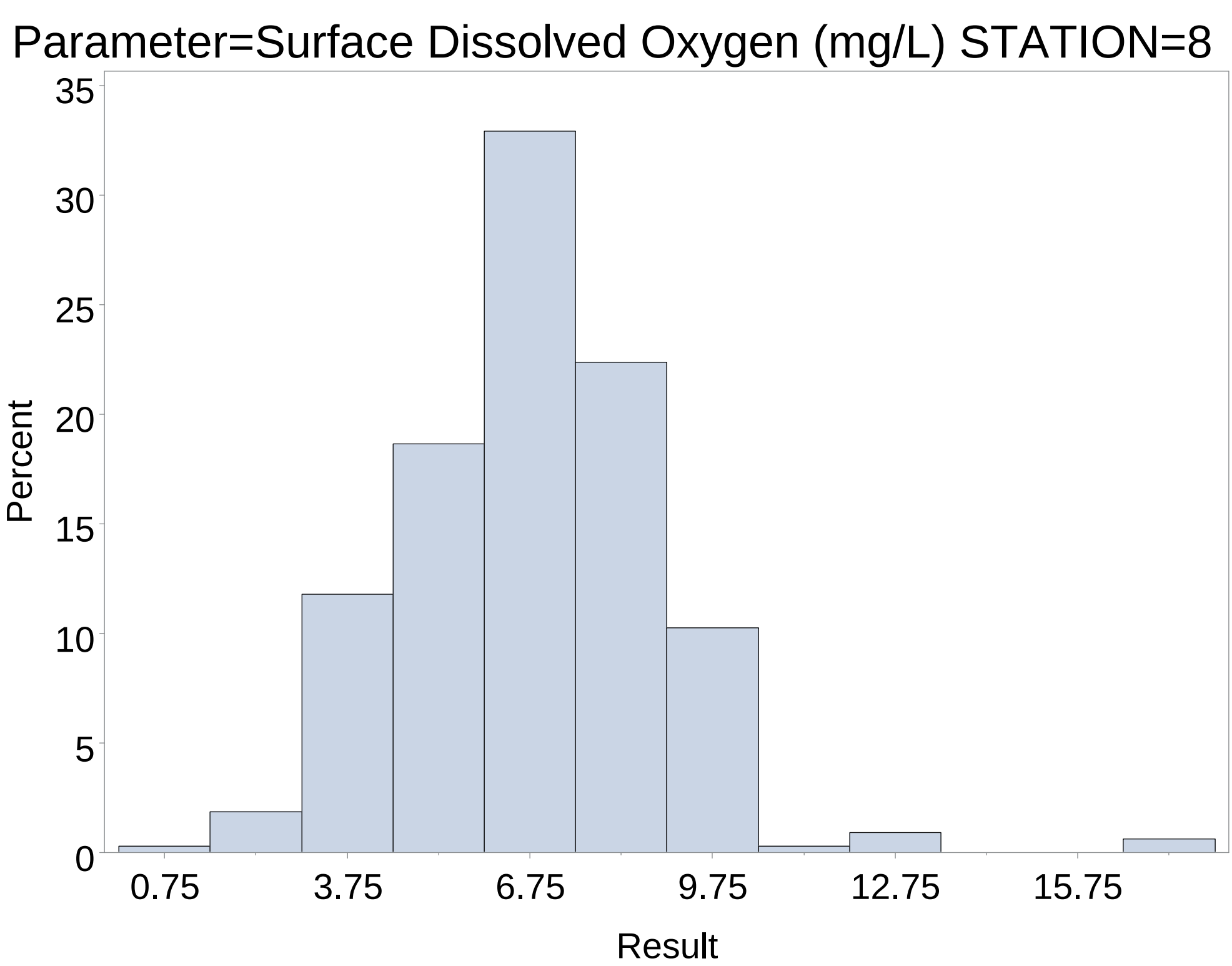
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	57.68155	**Pr > |t|**	<.0001
Sign	**M**	161	**Pr >= |M|**	<.0001
Signed Rank	**S**	26001.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.460
99%	12.840
95%	9.880
90%	9.330
75% Q3	7.940
50% Median	6.755
25% Q1	5.420
10%	4.180
5%	3.490
1%	2.780
0% Min	0.350

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.35	35568	12.70	35789
1.67	35633	12.84	35641
2.52	35587	13.07	35615
2.78	35785	16.87	35625
2.84	35735	17.46	35638


Parameter=Surface Dissolved Oxygen (mg/L) STATION=8
Percent
35
30
25
20
15
10
5
0
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=9

Moments			
N	329	**Sum Weights**	329
Mean	7.00793313	**Sum Observations**	2305.61
Std Deviation	2.16591331	**Variance**	4.69118047
Skewness	1.03871826	**Kurtosis**	3.11951608
Uncorrected SS	17696.2679	**Corrected SS**	1538.70719
Coeff Variation	30.9065922	**Std Error Mean**	0.11941067

Basic Statistical Measures			
Location		**Variability**	
Mean	7.007933	**Std Deviation**	2.16591
Median	6.910000	**Variance**	4.69118
Mode	5.680000	**Range**	15.36000
		Interquartile Range	2.48000

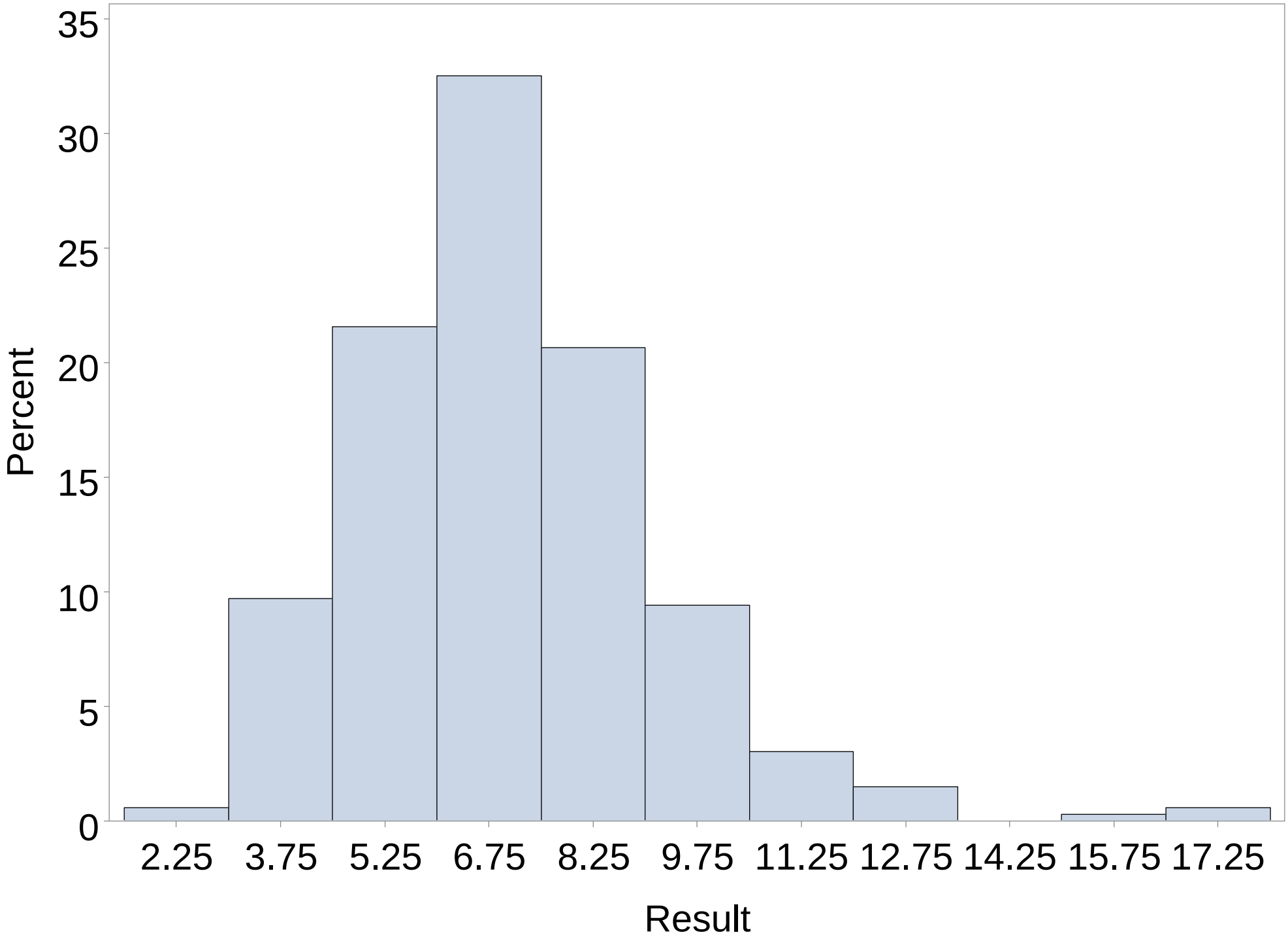
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.68766	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.55
99%	13.09
95%	10.63
90%	9.51
75% Q3	8.07
50% Median	6.91
25% Q1	5.59
10%	4.40
5%	3.72
1%	3.10
0% Min	2.19

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.19	35815	13.04	35831
2.88	36016	13.09	35965
3.10	36112	16.33	35962
3.10	36088	16.52	35827
3.10	36019	17.55	35949


Parameter=Surface Dissolved Oxygen (mg/L) STATION=9
Percent
35
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
17.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=10

Moments			
N	327	**Sum Weights**	327
Mean	6.86061162	**Sum Observations**	2243.42
Std Deviation	1.78461977	**Variance**	3.18486772
Skewness	0.056862	**Kurtosis**	0.87748405
Uncorrected SS	16429.5002	**Corrected SS**	1038.26688
Coeff Variation	26.0125462	**Std Error Mean**	0.0986897

Basic Statistical Measures			
Location		**Variability**	
Mean	6.860612	**Std Deviation**	1.78462
Median	6.880000	**Variance**	3.18487
Mode	6.630000	**Range**	13.50000
		Interquartile Range	2.55000

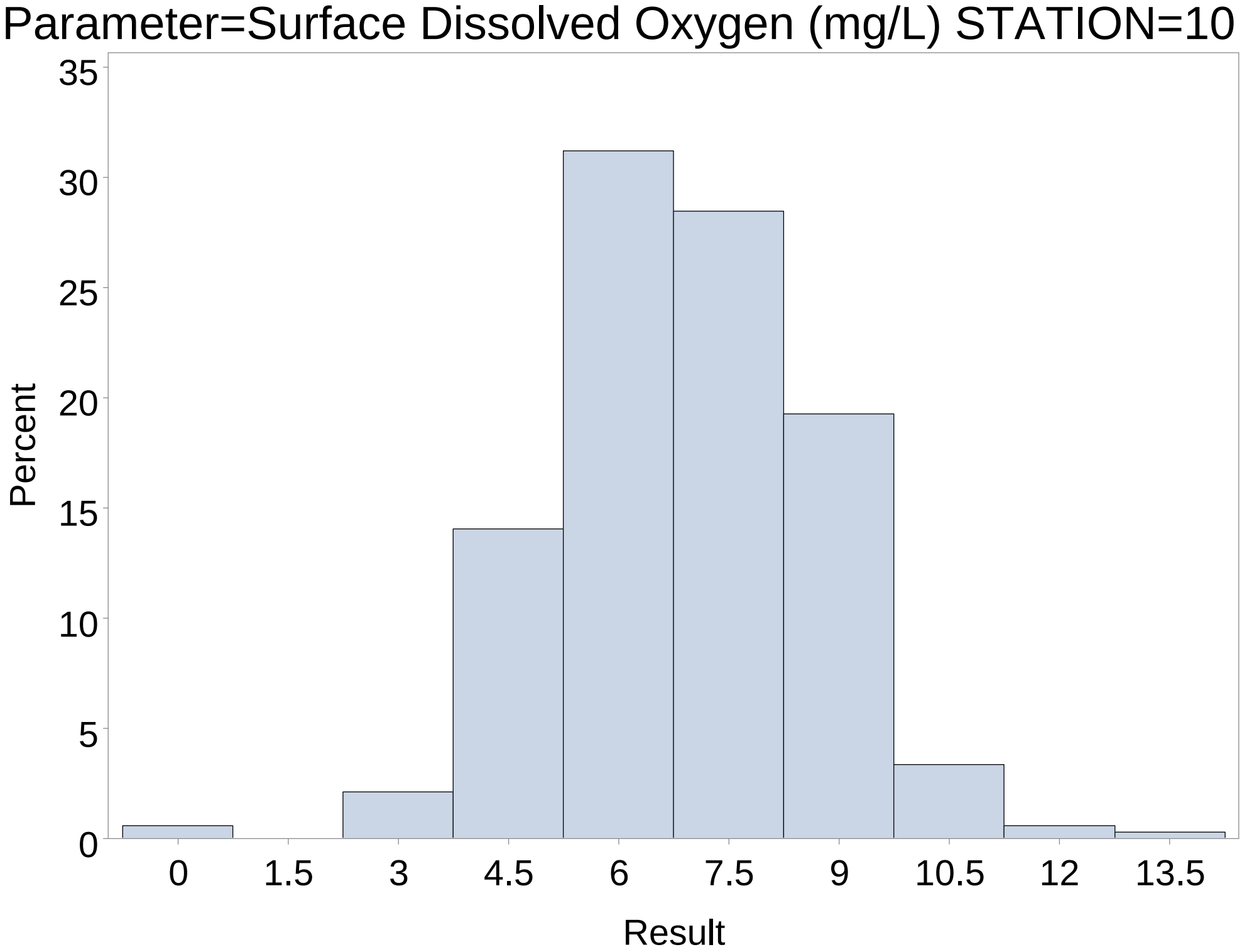
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	69.517	**Pr > |t|**	<.0001
Sign	**M**	163.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26814	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.75
99%	10.66
95%	9.70
90%	9.01
75% Q3	8.11
50% Median	6.88
25% Q1	5.56
10%	4.74
5%	4.15
1%	3.37
0% Min	0.25

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.25	36449	10.63	36285
0.38	36427	10.66	36281
2.81	36251	12.11	36296
3.37	36349	12.20	36282
3.43	36145	13.75	36295


Parameter=Surface Dissolved Oxygen (mg/L) STATION=10
Percent
35
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=11

Moments			
N	331	**Sum Weights**	331
Mean	6.81362538	**Sum Observations**	2255.31
Std Deviation	1.66152016	**Variance**	2.76064924
Skewness	0.29115429	**Kurtosis**	0.0874857
Uncorrected SS	16277.8517	**Corrected SS**	911.01425
Coeff Variation	24.3852585	**Std Error Mean**	0.09132541

Basic Statistical Measures			
Location		**Variability**	
Mean	6.813625	**Std Deviation**	1.66152
Median	6.720000	**Variance**	2.76065
Mode	5.520000	**Range**	9.83000
		Interquartile Range	2.36000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

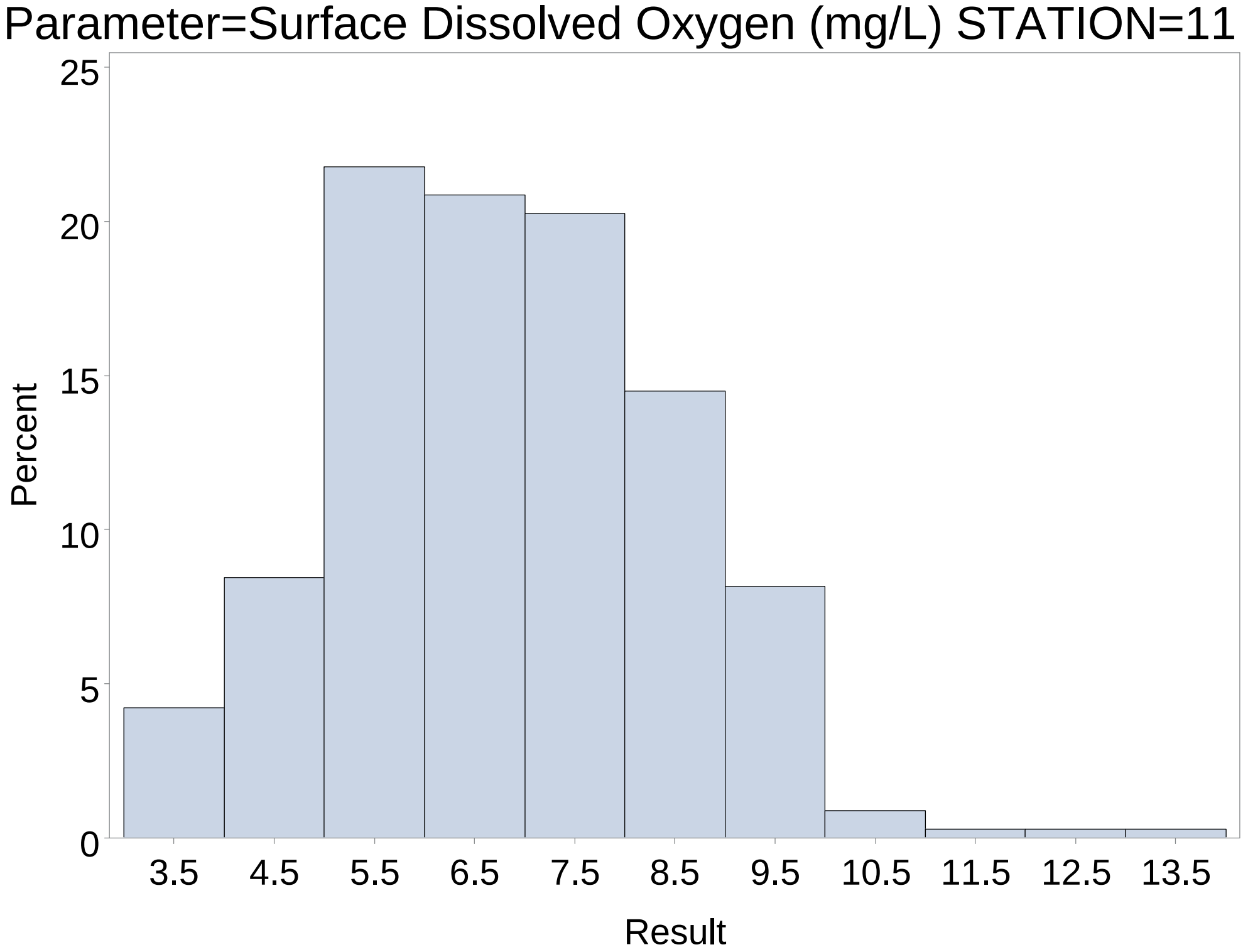
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	74.60821	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.17
99%	10.50
95%	9.56
90%	8.95
75% Q3	7.94
50% Median	6.72
25% Q1	5.58
10%	4.74
5%	4.15
1%	3.45
0% Min	3.34

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
3.34	36777	10.21	36617
3.39	36471	10.50	36631
3.44	36680	11.48	36607
3.45	36673	12.25	36621
3.55	36659	13.17	36620


Parameter=Surface Dissolved Oxygen (mg/L) STATION=11
Percent
25
20
15
10
5
0
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
12.5
13.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=12

Moments			
N	331	**Sum Weights**	331
Mean	6.56570997	**Sum Observations**	2173.25
Std Deviation	1.67830805	**Variance**	2.8167179
Skewness	0.42512567	**Kurtosis**	0.3183848
Uncorrected SS	15198.4461	**Corrected SS**	929.516908
Coeff Variation	25.5617147	**Std Error Mean**	0.09224815

Basic Statistical Measures			
Location		**Variability**	
Mean	6.565710	**Std Deviation**	1.67831
Median	6.460000	**Variance**	2.81672
Mode	5.600000	**Range**	10.94000
		Interquartile Range	2.44000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

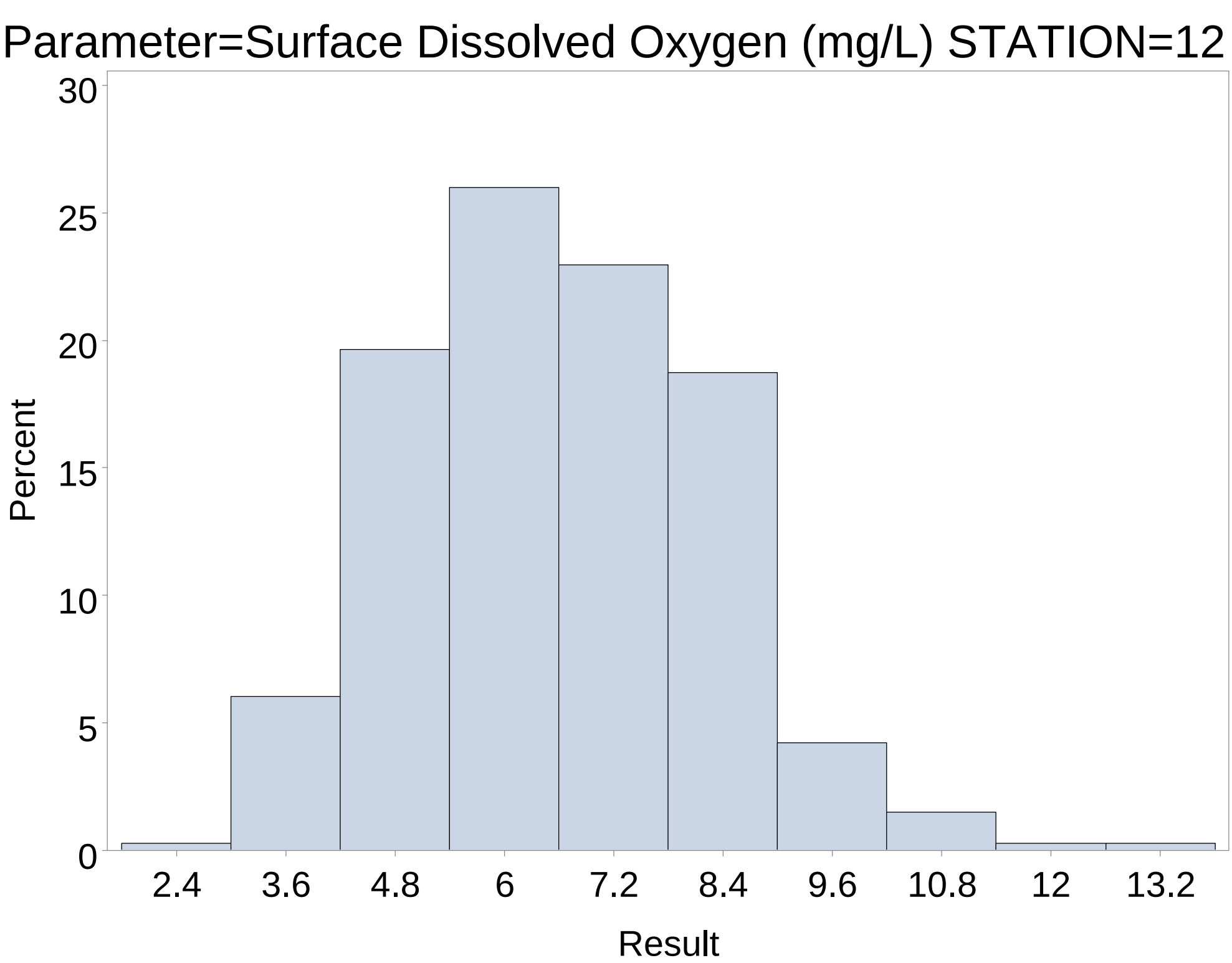
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	71.17443	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.39
99%	11.04
95%	9.16
90%	8.81
75% Q3	7.80
50% Median	6.46
25% Q1	5.36
10%	4.43
5%	4.09
1%	3.31
0% Min	2.45

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.45	36802	11.04	36938
3.09	37011	11.04	36952
3.24	37004	11.29	36846
3.31	37007	11.51	36795
3.41	37100	13.39	36951


Parameter=Surface Dissolved Oxygen (mg/L) STATION=12
Percent
30
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=13

Moments			
N	333	**Sum Weights**	333
Mean	6.55435435	**Sum Observations**	2182.6
Std Deviation	1.72461484	**Variance**	2.97429634
Skewness	0.36315345	**Kurtosis**	0.06640901
Uncorrected SS	15293.0002	**Corrected SS**	987.466386
Coeff Variation	26.3125053	**Std Error Mean**	0.09450831

Basic Statistical Measures			
Location		**Variability**	
Mean	6.554354	**Std Deviation**	1.72461
Median	6.540000	**Variance**	2.97430
Mode	5.680000	**Range**	11.04000
		Interquartile Range	2.55000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

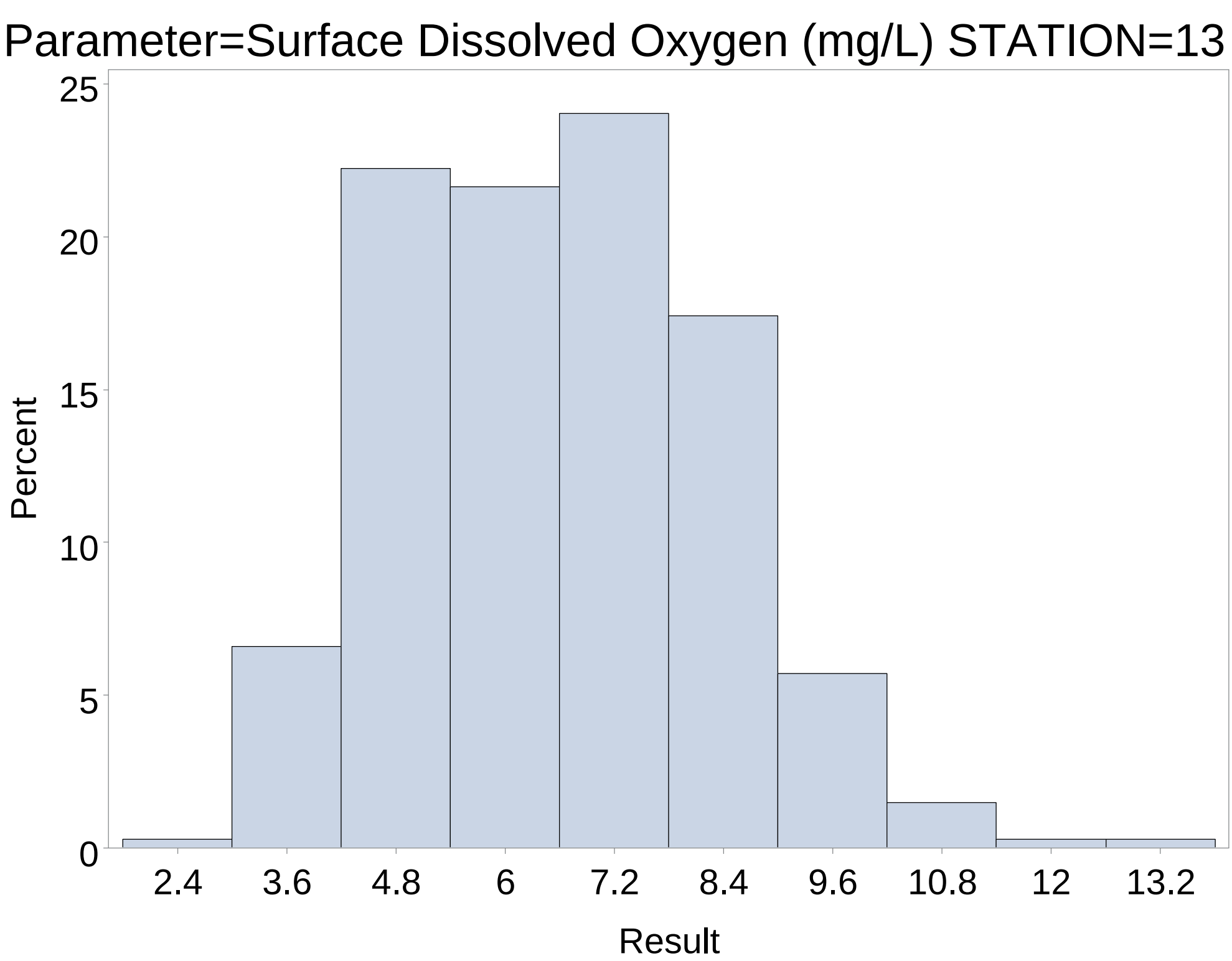
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	69.35215	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.39
99%	10.92
95%	9.31
90%	8.78
75% Q3	7.80
50% Median	6.54
25% Q1	5.25
10%	4.38
5%	3.96
1%	3.34
0% Min	2.35

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.35	37133	10.58	37126
3.06	37344	10.92	37270
3.20	37433	11.17	37177
3.34	37312	11.40	37284
3.35	37337	13.39	37283


Parameter=Surface Dissolved Oxygen (mg/L) STATION=13
25
20
15
10
5
0
Percent
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=14

Moments			
N	332	**Sum Weights**	332
Mean	6.4425	**Sum Observations**	2138.91
Std Deviation	1.75318857	**Variance**	3.07367017
Skewness	0.42351227	**Kurtosis**	0.20575242
Uncorrected SS	14797.3125	**Corrected SS**	1017.38482
Coeff Variation	27.212861	**Std Error Mean**	0.09621872

Basic Statistical Measures			
Location		**Variability**	
Mean	6.442500	**Std Deviation**	1.75319
Median	6.330000	**Variance**	3.07367
Mode	4.620000	**Range**	11.61000
		Interquartile Range	2.55000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

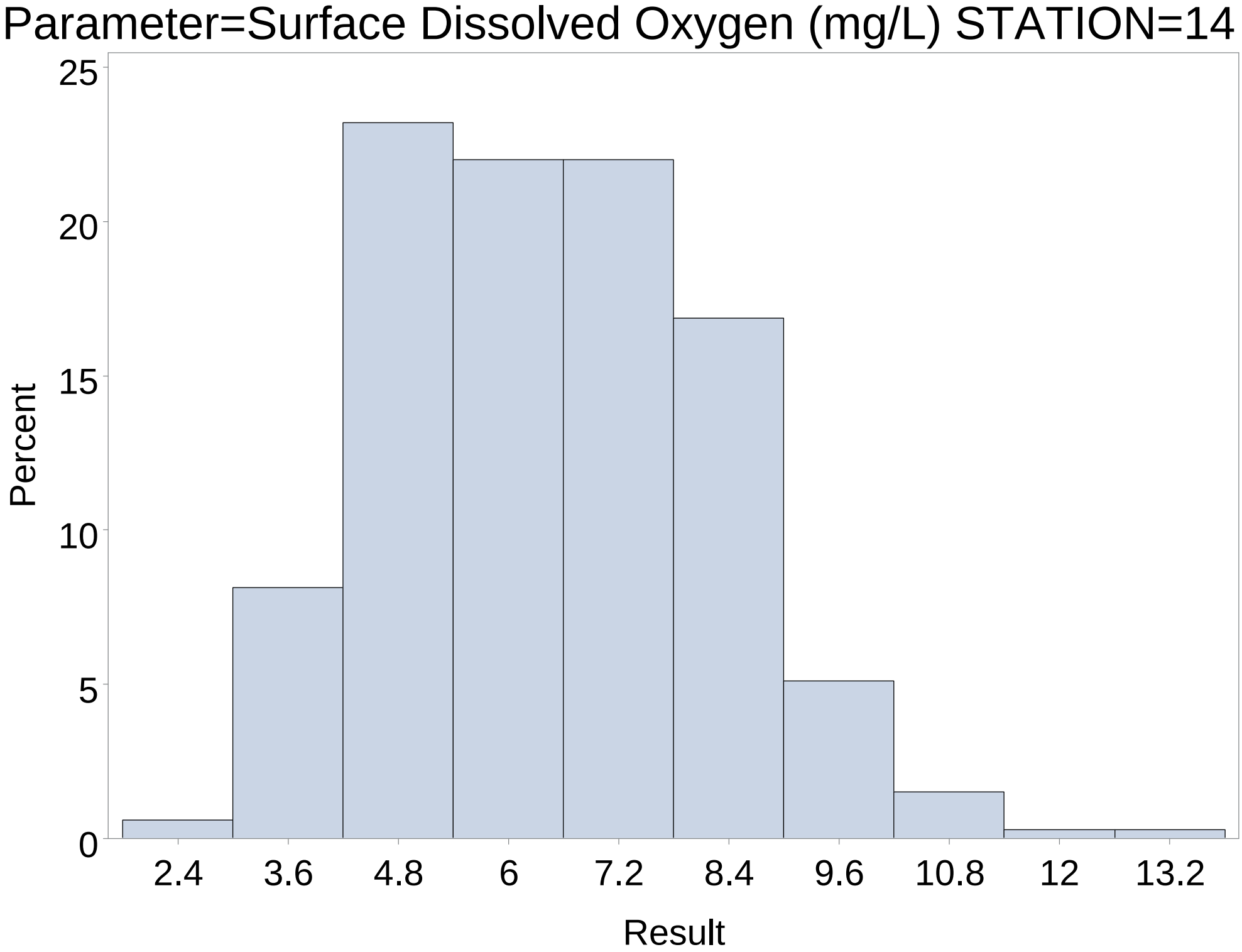
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	66.95682	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.790
99%	10.520
95%	9.430
90%	8.640
75% Q3	7.655
50% Median	6.330
25% Q1	5.105
10%	4.240
5%	3.920
1%	3.100
0% Min	2.180

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.18	37466	10.32	37769
2.97	37644	10.52	37568
3.07	37765	10.53	37589
3.10	37691	11.58	37616
3.12	37676	13.79	37615


Parameter=Surface Dissolved Oxygen (mg/L) STATION=14
25
20
15
10
5
0
Percent
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=15

Moments			
N	330	**Sum Weights**	330
Mean	6.50515152	**Sum Observations**	2146.7
Std Deviation	1.85778036	**Variance**	3.45134785
Skewness	0.49238172	**Kurtosis**	0.49590242
Uncorrected SS	15100.1022	**Corrected SS**	1135.49344
Coeff Variation	28.5586024	**Std Error Mean**	0.10226744

Basic Statistical Measures			
Location		**Variability**	
Mean	6.505152	**Std Deviation**	1.85778
Median	6.420000	**Variance**	3.45135
Mode	8.050000	**Range**	11.64000
		Interquartile Range	2.55000

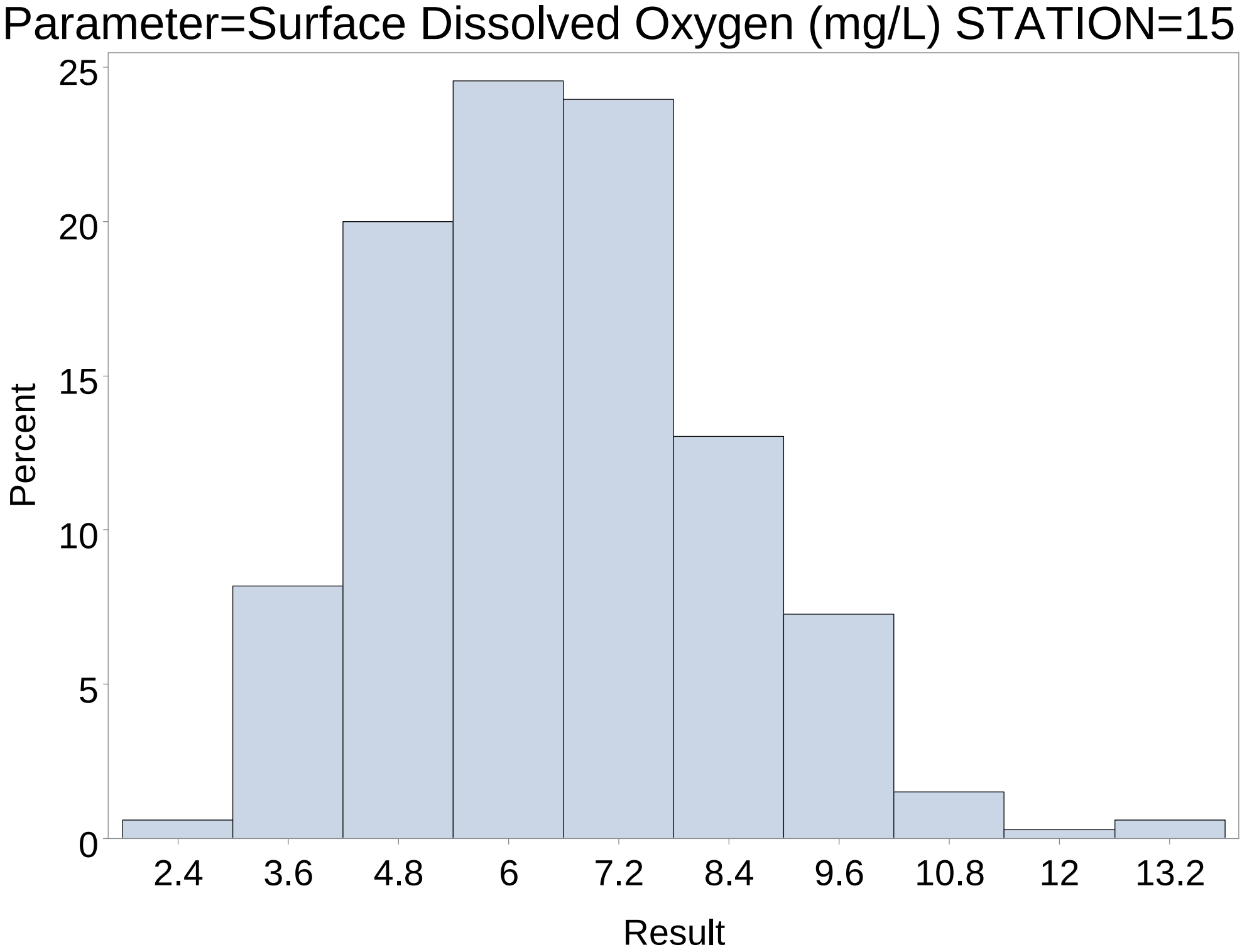
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	63.60921	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.720
99%	11.320
95%	9.600
90%	8.910
75% Q3	7.650
50% Median	6.420
25% Q1	5.100
10%	4.235
5%	3.730
1%	3.010
0% Min	2.080

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.08	37798	11.30	37946
2.83	37999	11.32	38099
3.00	38006	11.53	37942
3.01	38070	13.27	37855
3.03	38095	13.72	37945


Parameter=Surface Dissolved Oxygen (mg/L) STATION=15
Percent
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=16

Moments			
N	331	**Sum Weights**	331
Mean	6.79758308	**Sum Observations**	2250
Std Deviation	1.96252069	**Variance**	3.85148747
Skewness	0.58436195	**Kurtosis**	1.80882157
Uncorrected SS	16565.5528	**Corrected SS**	1270.99087
Coeff Variation	28.87086	**Std Error Mean**	0.10786989

Basic Statistical Measures			
Location		**Variability**	
Mean	6.797583	**Std Deviation**	1.96252
Median	6.810000	**Variance**	3.85149
Mode	3.500000	**Range**	14.56000
		Interquartile Range	2.59000

Note: The mode displayed is the smallest of 14 modes with a count of 3.

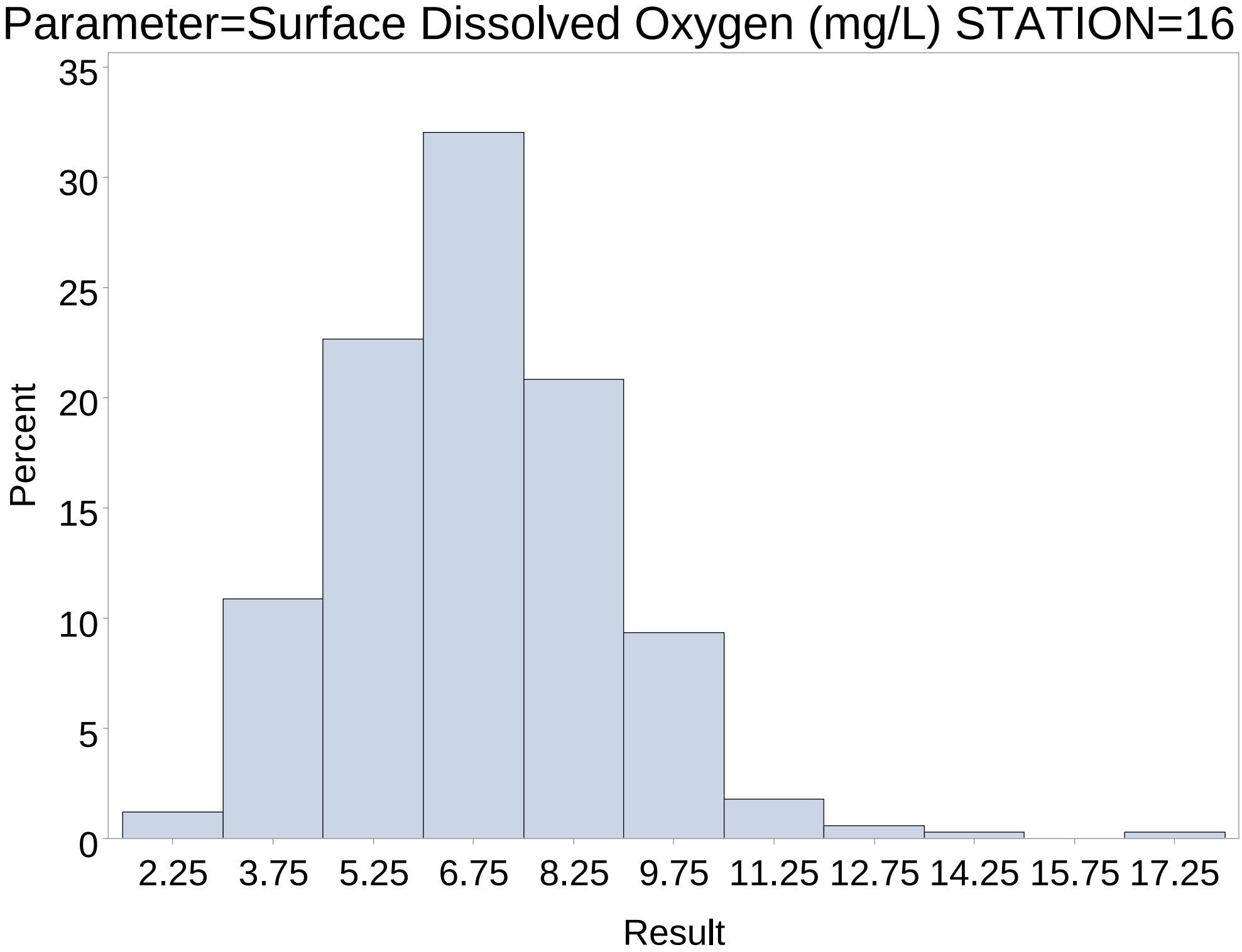
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	63.0165	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.73
99%	12.08
95%	9.99
90%	9.17
75% Q3	8.00
50% Median	6.81
25% Q1	5.41
10%	4.33
5%	3.64
1%	2.93
0% Min	2.17

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.17	38128	11.48	38273
2.59	38271	12.08	38430
2.91	38330	12.10	38253
2.93	38401	14.19	38276
3.03	38333	16.73	38263


Parameter=Surface Dissolved Oxygen (mg/L) STATION=16
Percent
35
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
17.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=17

Moments			
N	329	**Sum Weights**	329
Mean	6.87057751	**Sum Observations**	2260.42
Std Deviation	2.02474629	**Variance**	4.09959753
Skewness	0.7410433	**Kurtosis**	2.43504842
Uncorrected SS	16875.0588	**Corrected SS**	1344.66799
Coeff Variation	29.4698122	**Std Error Mean**	0.11162788

Basic Statistical Measures			
Location		**Variability**	
Mean	6.870578	**Std Deviation**	2.02475
Median	6.830000	**Variance**	4.09960
Mode	4.400000	**Range**	14.79000
		Interquartile Range	2.62000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

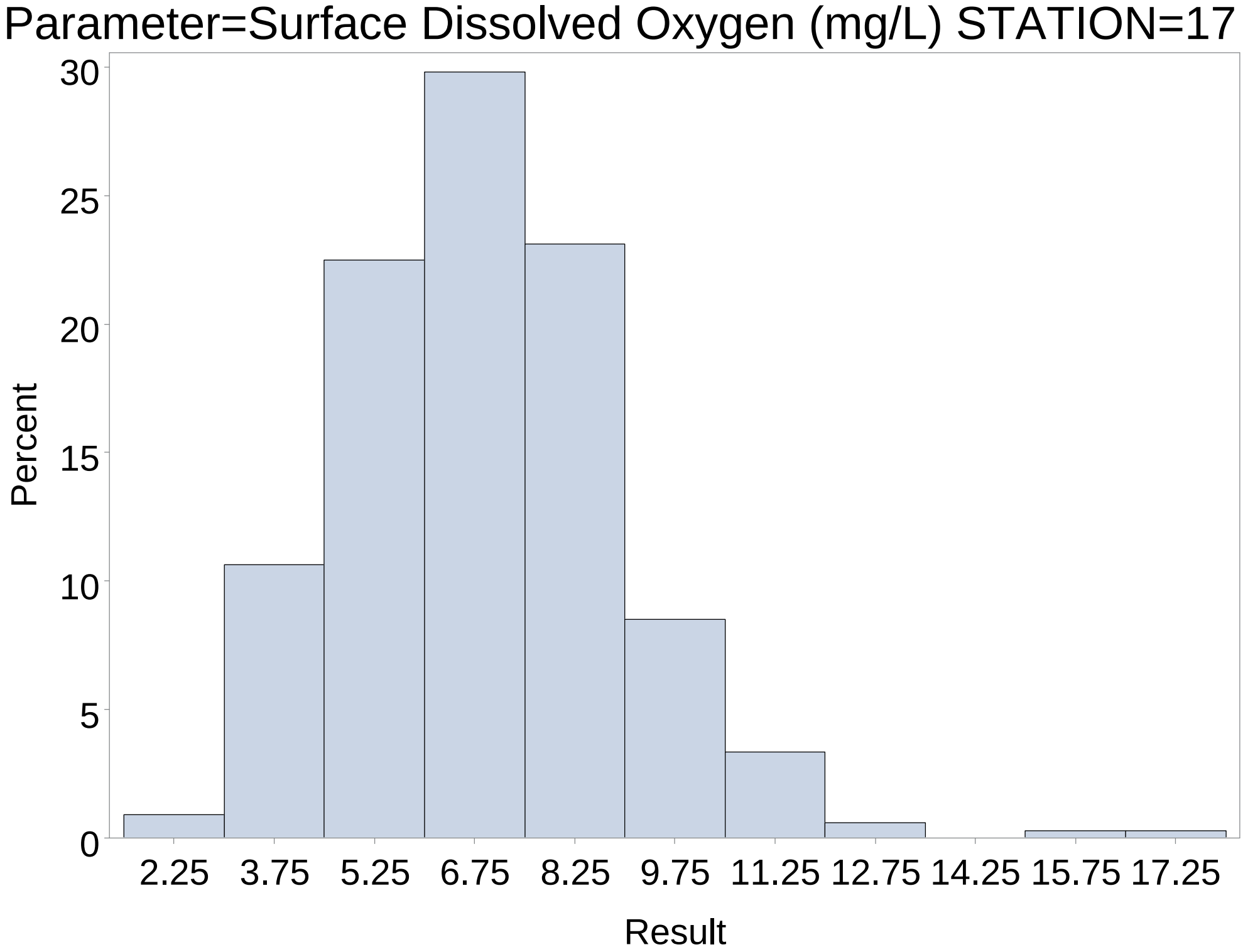
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	61.54894	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.02
99%	12.10
95%	10.05
90%	9.27
75% Q3	8.06
50% Median	6.83
25% Q1	5.44
10%	4.40
5%	3.66
1%	3.07
0% Min	2.23

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.23	38459	11.48	38759
2.76	38768	12.10	38608
2.81	38659	13.08	38582
3.07	38662	16.09	38605
3.10	38658	17.02	38592


Parameter=Surface Dissolved Oxygen (mg/L) STATION=17
Percent
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
17.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=18

Moments			
N	327	**Sum Weights**	327
Mean	6.7235474	**Sum Observations**	2198.6
Std Deviation	2.09741536	**Variance**	4.39915118
Skewness	0.66481197	**Kurtosis**	2.57154378
Uncorrected SS	16216.5146	**Corrected SS**	1434.12329
Coeff Variation	31.1950706	**Std Error Mean**	0.11598733

Basic Statistical Measures			
Location		**Variability**	
Mean	6.723547	**Std Deviation**	2.09742
Median	6.750000	**Variance**	4.39915
Mode	5.900000	**Range**	16.37000
		Interquartile Range	2.70000

Note: The mode displayed is the smallest of 5 modes with a count of 4.

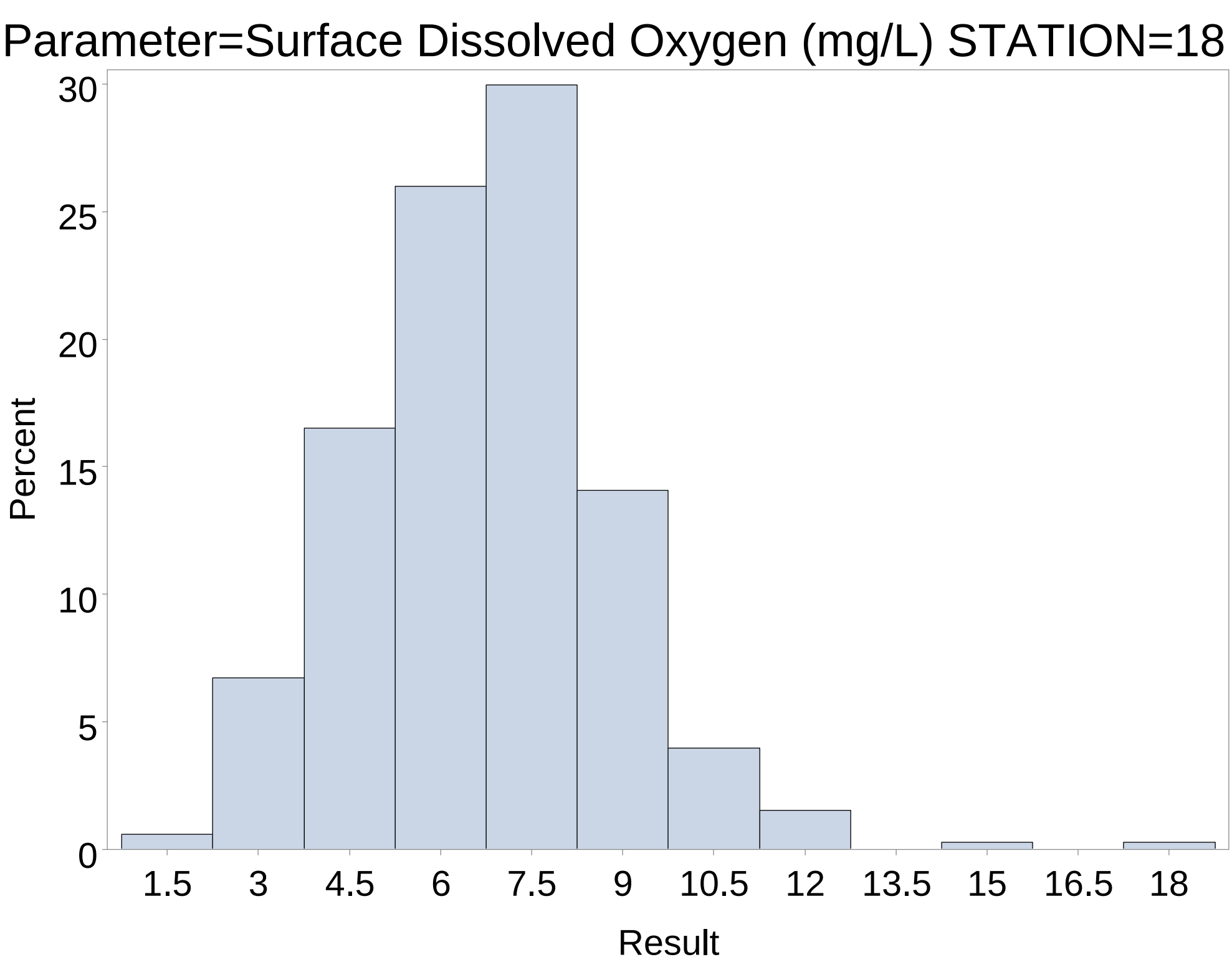
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	57.96794	**Pr > |t|**	<.0001
Sign	**M**	163.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26814	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.79
99%	12.46
95%	9.85
90%	9.15
75% Q3	8.02
50% Median	6.75
25% Q1	5.32
10%	4.10
5%	3.40
1%	2.51
0% Min	1.42

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.42	38928	12.05	38785
1.78	39082	12.46	38910
2.40	39058	12.71	39086
2.51	39033	15.38	38920
2.80	38990	17.79	38933


Parameter=Surface Dissolved Oxygen (mg/L) STATION=18
Percent
30
25
20
15
10
5
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=19

Moments			
N	329	**Sum Weights**	329
Mean	6.98972644	**Sum Observations**	2299.62
Std Deviation	2.1069168	**Variance**	4.4390984
Skewness	0.91061683	**Kurtosis**	3.34510236
Uncorrected SS	17529.739	**Corrected SS**	1456.02428
Coeff Variation	30.1430509	**Std Error Mean**	0.11615808

Basic Statistical Measures			
Location		**Variability**	
Mean	6.989726	**Std Deviation**	2.10692
Median	6.900000	**Variance**	4.43910
Mode	3.920000	**Range**	15.80000
		Interquartile Range	2.58000

Note: The mode displayed is the smallest of 15 modes with a count of 3.

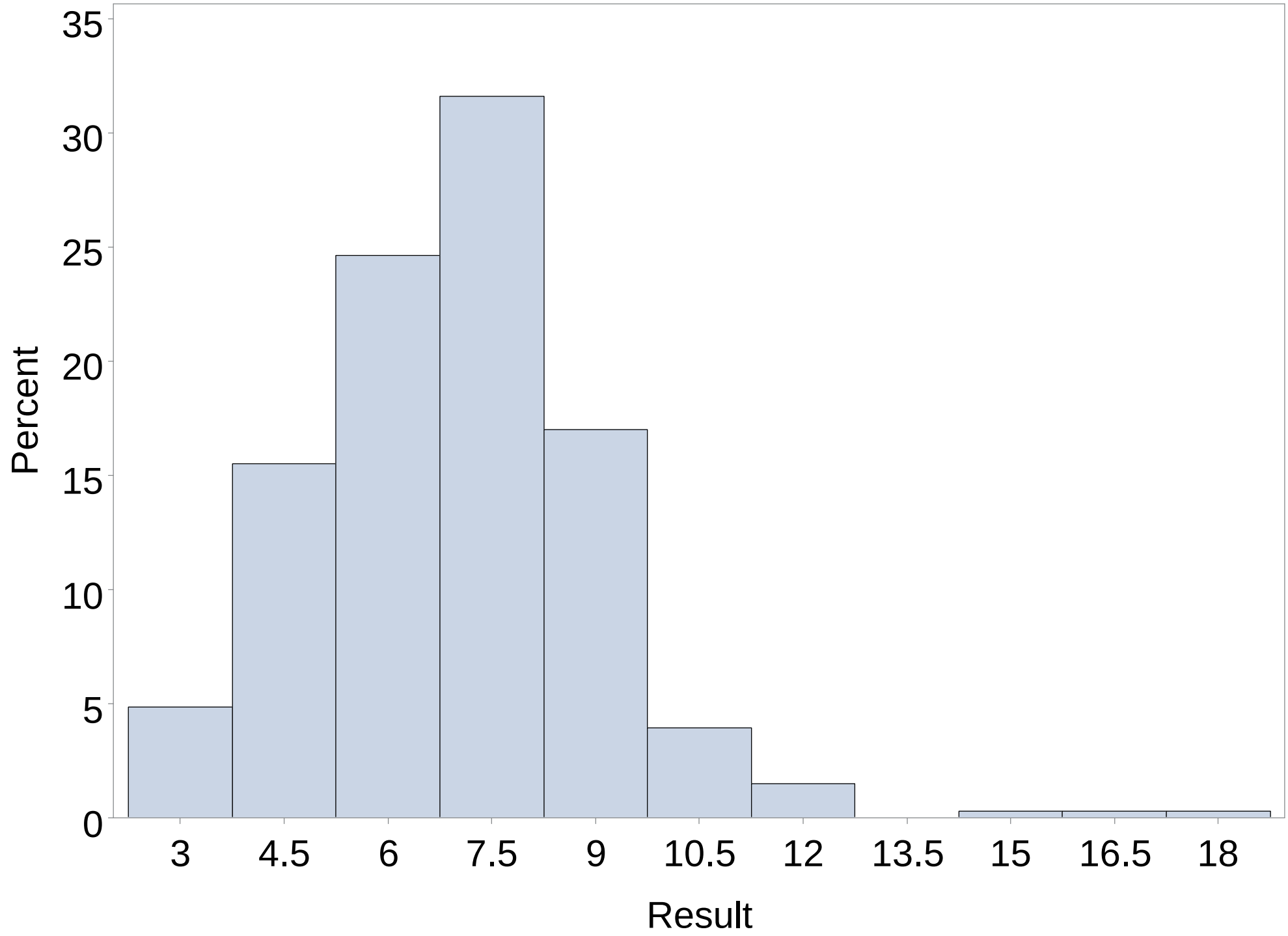
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	60.17426	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.22
99%	12.70
95%	10.37
90%	9.34
75% Q3	8.16
50% Median	6.90
25% Q1	5.58
10%	4.30
5%	3.77
1%	2.70
0% Min	2.42

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.42	39259	12.62	39416
2.52	39314	12.70	39334
2.57	39115	15.44	39264
2.70	39316	15.86	39251
2.86	39318	18.22	39281


Parameter=Surface Dissolved Oxygen (mg/L) STATION=19
Percent
35
30
25
20
15
10
5
0
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=22

Moments			
N	1	Sum Weights	1
Mean	5.36	Sum Observations	5.36
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	28.7296	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	5.360000	Std Deviation	.
Median	5.360000	Variance	.
Mode	5.360000	Range	0
		Interquartile Range	0

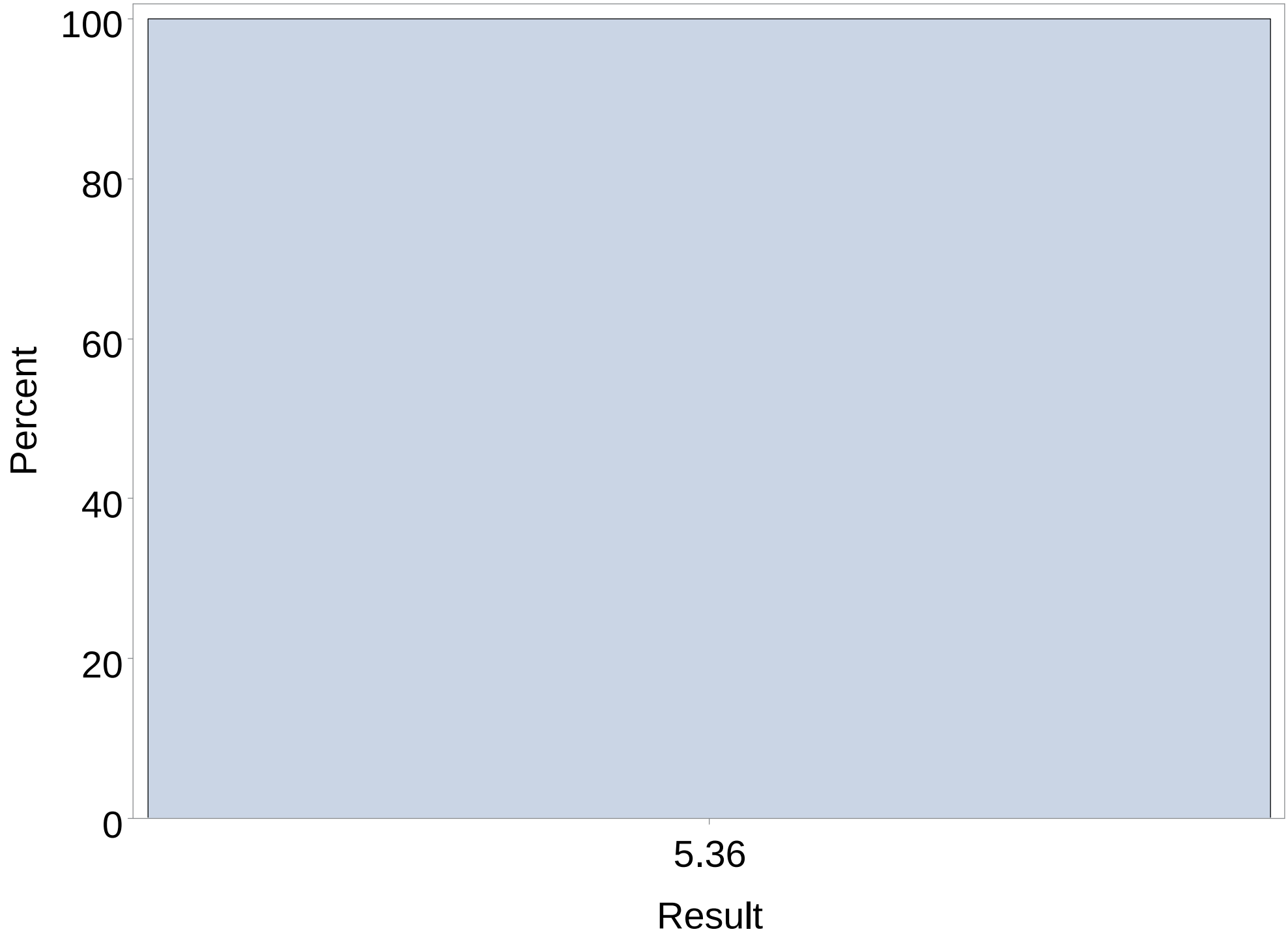
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	5.36
99%	5.36
95%	5.36
90%	5.36
75% Q3	5.36
50% Median	5.36
25% Q1	5.36
10%	5.36
5%	5.36
1%	5.36
0% Min	5.36

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Dissolved Oxygen (mg/L) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.36	39427	5.36	39427


Parameter=Surface Dissolved Oxygen (mg/L) STATION=22
100
80
60
40
20
0
Percent
5.36
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=1

Moments			
N	334	**Sum Weights**	334
Mean	5.46139891	**Sum Observations**	1824.10724
Std Deviation	1.52028299	**Variance**	2.31126036
Skewness	0.27868637	**Kurtosis**	0.5590574
Uncorrected SS	10731.827	**Corrected SS**	769.6497
Coeff Variation	27.8368786	**Std Error Mean**	0.08318618

Basic Statistical Measures			
Location		**Variability**	
Mean	5.461399	**Std Deviation**	1.52028
Median	5.301429	**Variance**	2.31126
Mode	4.256250	**Range**	10.31956
		Interquartile Range	2.03833

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

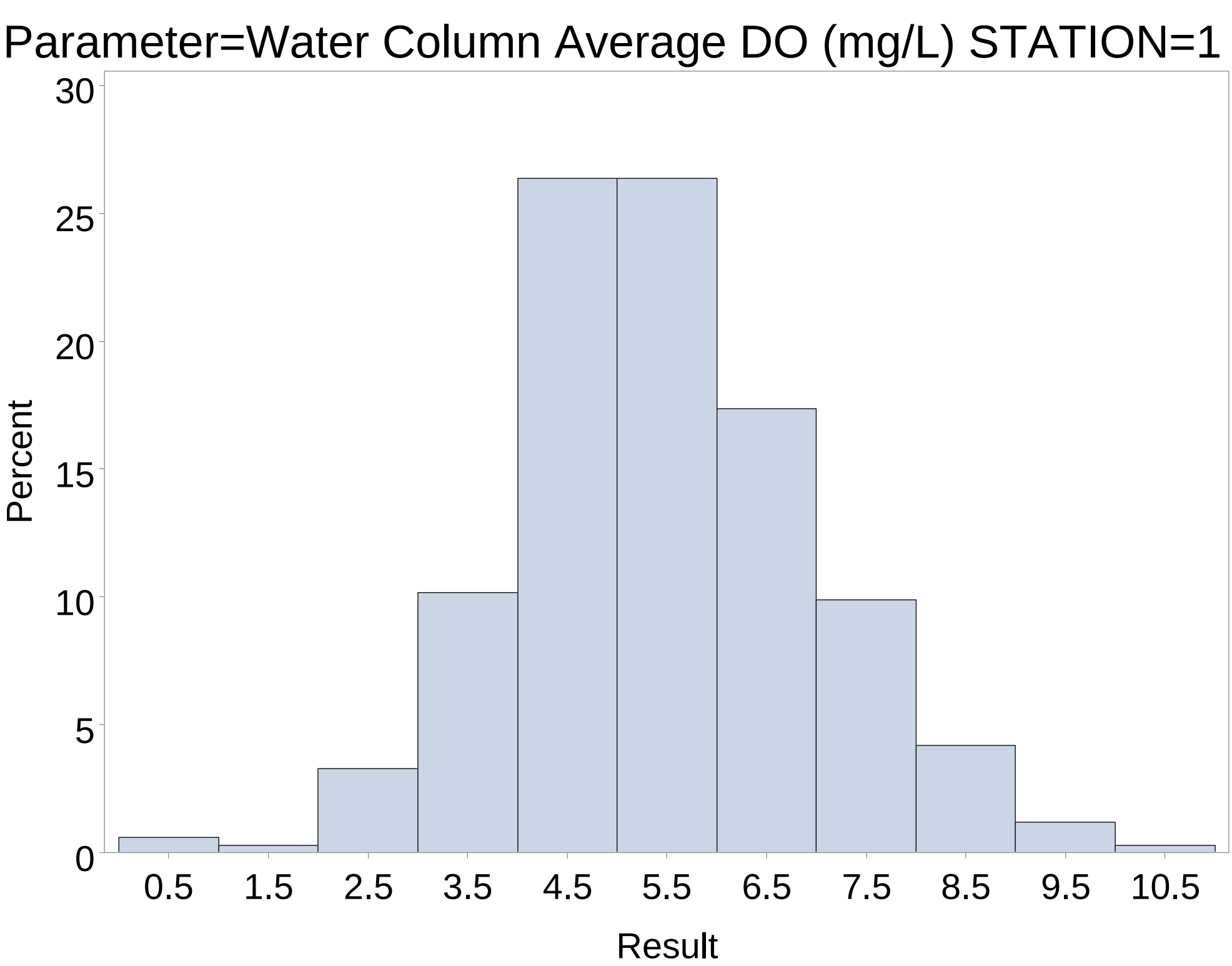
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.65272	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	10.82556
99%	9.13375
95%	8.21667
90%	7.48375
75% Q3	6.50167
50% Median	5.30143
25% Q1	4.46333
10%	3.80375
5%	3.17625
1%	2.23000
0% Min	0.50600

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.506000	39445	9.06600	39607
0.526667	39520	9.13375	39654
1.952222	39695	9.31667	39518
2.230000	39746	9.91600	39547
2.428571	39635	10.82556	39596


Parameter=Water Column Average DO (mg/L) STATION=1
Percent
30
25
20
15
10
5
0
0.5
1.5
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=2

Moments			
N	332	**Sum Weights**	332
Mean	5.13933975	**Sum Observations**	1706.2608
Std Deviation	1.40235178	**Variance**	1.96659051
Skewness	0.69391555	**Kurtosis**	1.55713601
Uncorrected SS	9419.99538	**Corrected SS**	650.94146
Coeff Variation	27.2866136	**Std Error Mean**	0.07696405

Basic Statistical Measures			
Location		**Variability**	
Mean	5.139340	**Std Deviation**	1.40235
Median	4.959375	**Variance**	1.96659
Mode	3.620000	**Range**	10.52393
		Interquartile Range	1.93465

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

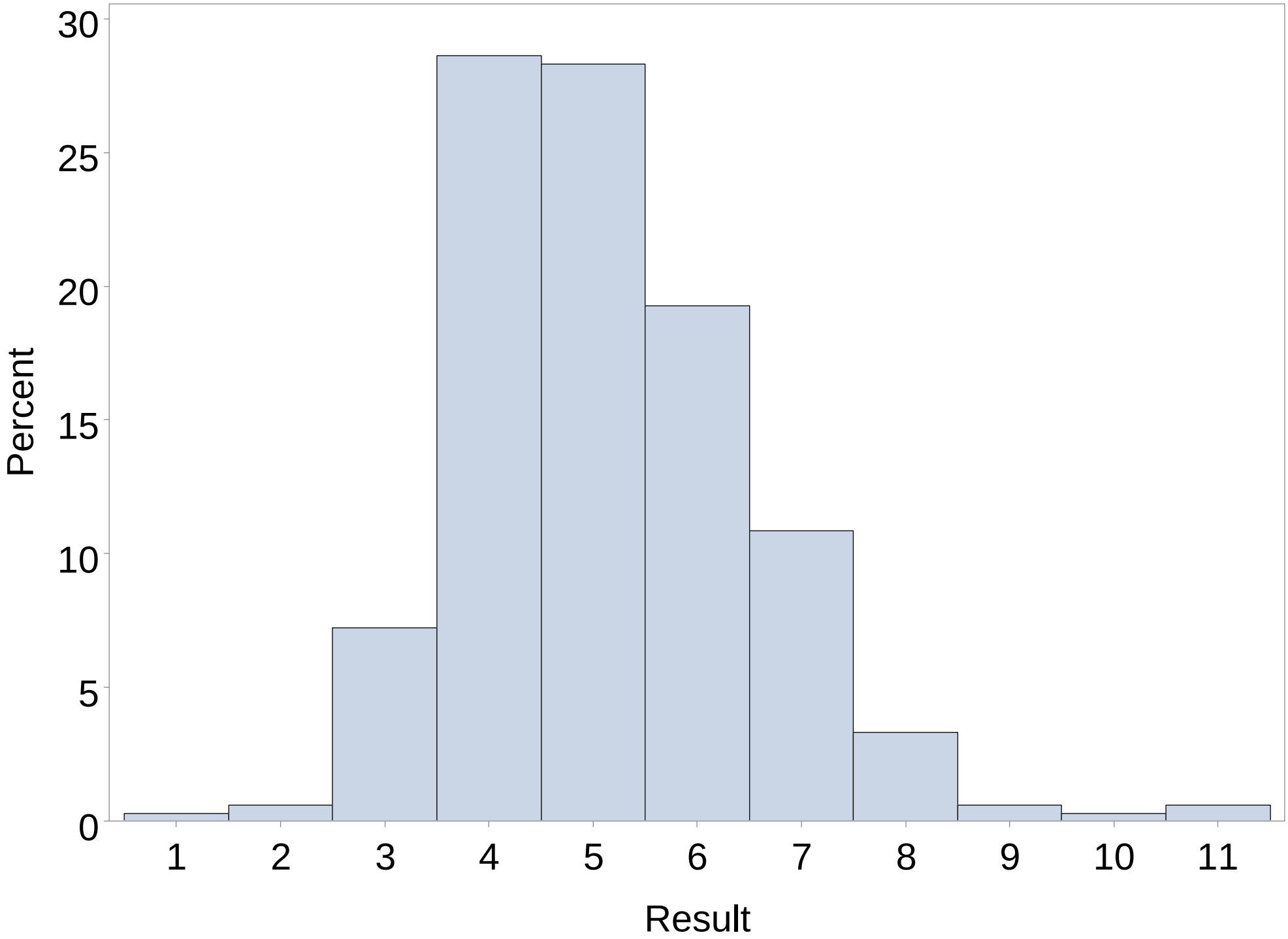
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	66.77585	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.44143
99%	8.61778
95%	7.47300
90%	6.90625
75% Q3	6.10438
50% Median	4.95938
25% Q1	4.16972
10%	3.62000
5%	3.17556
1%	2.57900
0% Min	0.91750

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.91750	39854	8.52875	39846
2.07111	40078	8.61778	40082
2.24700	40091	9.90375	39852
2.57900	39779	10.82857	39928
2.58625	39983	11.44143	39929


Parameter=Water Column Average DO (mg/L) STATION=2
Percent
30
25
20
15
10
5
0
1
2
3
4
5
6
7
8
9
10
11
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=3

Moments			
N	332	**Sum Weights**	332
Mean	5.45216391	**Sum Observations**	1810.11842
Std Deviation	2.17669324	**Variance**	4.73799347
Skewness	0.19284579	**Kurtosis**	0.00709403
Uncorrected SS	11437.3381	**Corrected SS**	1568.27584
Coeff Variation	39.9234741	**Std Error Mean**	0.11946156

Basic Statistical Measures			
Location		**Variability**	
Mean	5.452164	**Std Deviation**	2.17669
Median	5.622500	**Variance**	4.73799
Mode	6.940000	**Range**	13.83917
		Interquartile Range	3.39308

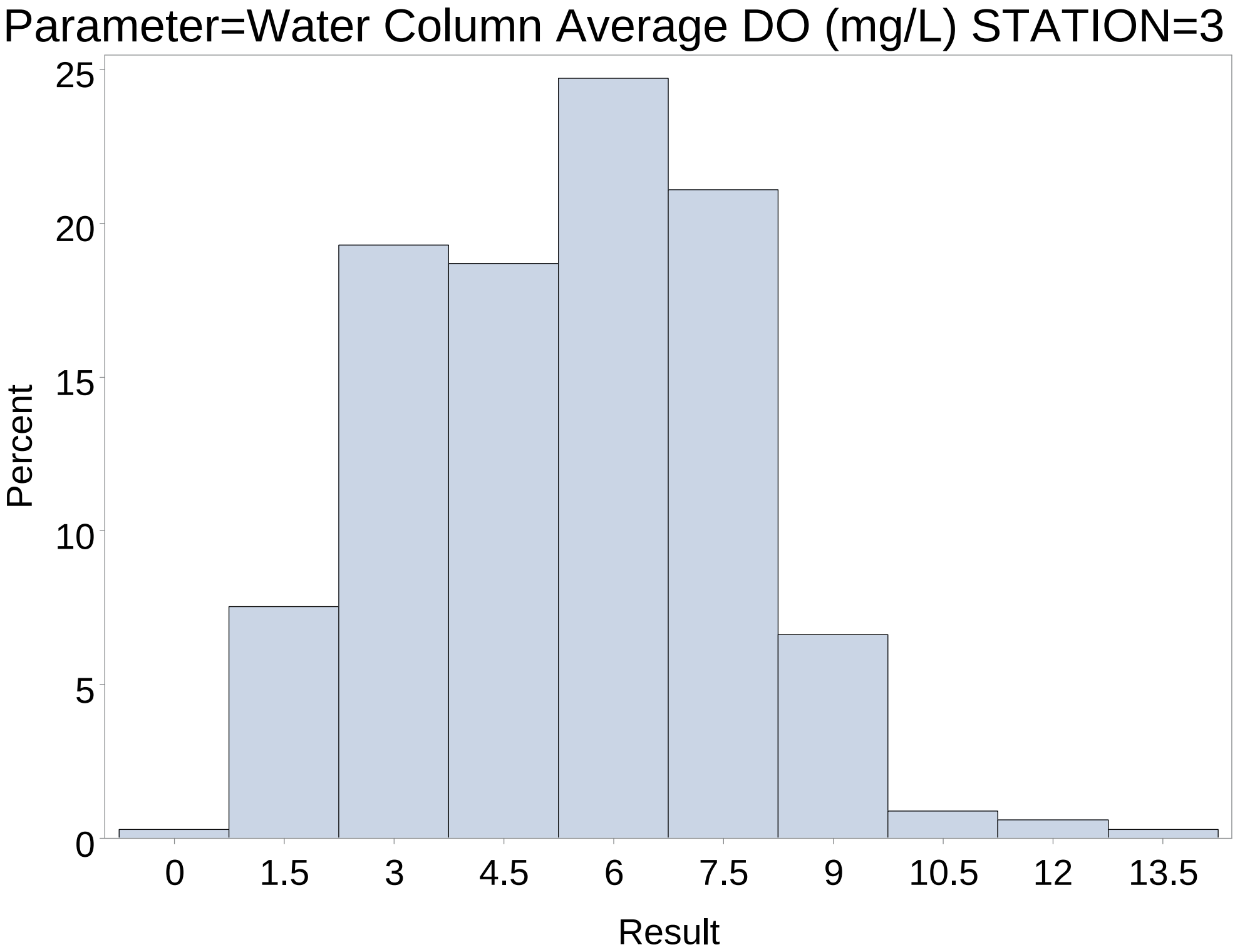
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.63948	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.012500
99%	10.700000
95%	8.550000
90%	8.033333
75% Q3	7.028333
50% Median	5.622500
25% Q1	3.635250
10%	2.425556
5%	2.080000
1%	1.550000
0% Min	0.173333

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.173333	40111	9.95333	40247
1.292000	40207	10.70000	40212
1.404000	40195	11.50444	40261
1.550000	40419	12.25000	40299
1.556667	40407	14.01250	40260


Parameter=Water Column Average DO (mg/L) STATION=3
Percent
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=4

Moments			
N	333	**Sum Weights**	333
Mean	5.91565582	**Sum Observations**	1969.91339
Std Deviation	1.59602417	**Variance**	2.54729314
Skewness	0.53879298	**Kurtosis**	0.70681902
Uncorrected SS	12499.0309	**Corrected SS**	845.701321
Coeff Variation	26.9796657	**Std Error Mean**	0.08746159

Basic Statistical Measures			
Location		**Variability**	
Mean	5.915656	**Std Deviation**	1.59602
Median	5.668333	**Variance**	2.54729
Mode	4.848000	**Range**	10.64911
		Interquartile Range	2.13400

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

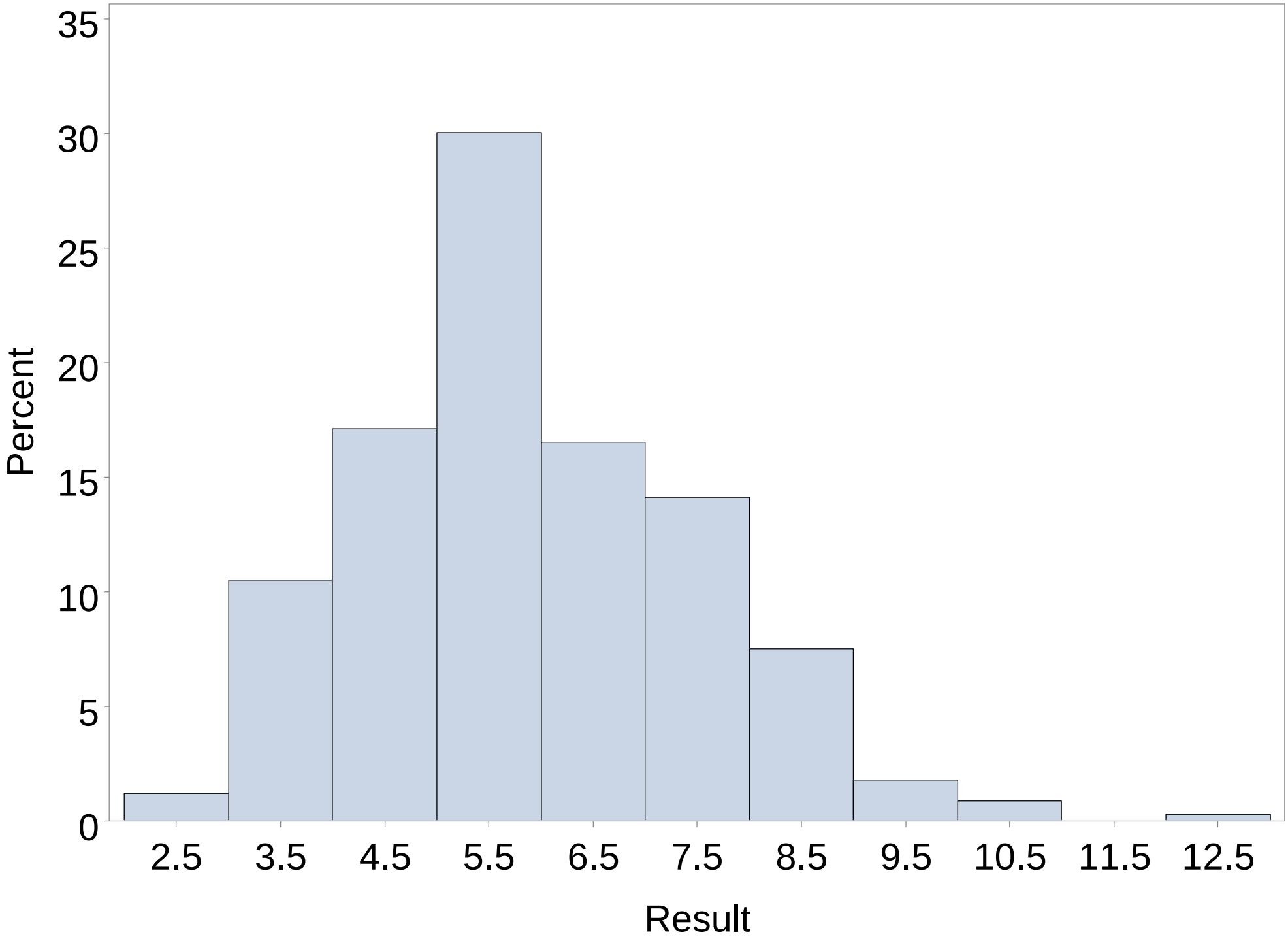
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	67.63719	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.66111
99%	10.21833
95%	8.61000
90%	8.06875
75% Q3	6.98200
50% Median	5.66833
25% Q1	4.84800
10%	3.93833
5%	3.65571
1%	2.41667
0% Min	2.01200

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.01200	40626	9.71667	40605
2.01333	40442	10.21833	40604
2.38900	40443	10.79000	40487
2.41667	40585	10.96000	40594
3.08500	40541	12.66111	40593


Parameter=Water Column Average DO (mg/L) STATION=4
Percent
35
30
25
20
15
10
5
0
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
12.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=5

Moments			
N	334	**Sum Weights**	334
Mean	6.08083397	**Sum Observations**	2030.99855
Std Deviation	1.61041194	**Variance**	2.5934266
Skewness	0.39578837	**Kurtosis**	-0.2885458
Uncorrected SS	13213.776	**Corrected SS**	863.611058
Coeff Variation	26.4834058	**Std Error Mean**	0.08811782

Basic Statistical Measures			
Location		**Variability**	
Mean	6.080834	**Std Deviation**	1.61041
Median	5.925667	**Variance**	2.59343
Mode	4.427500	**Range**	9.11400
		Interquartile Range	2.39167

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

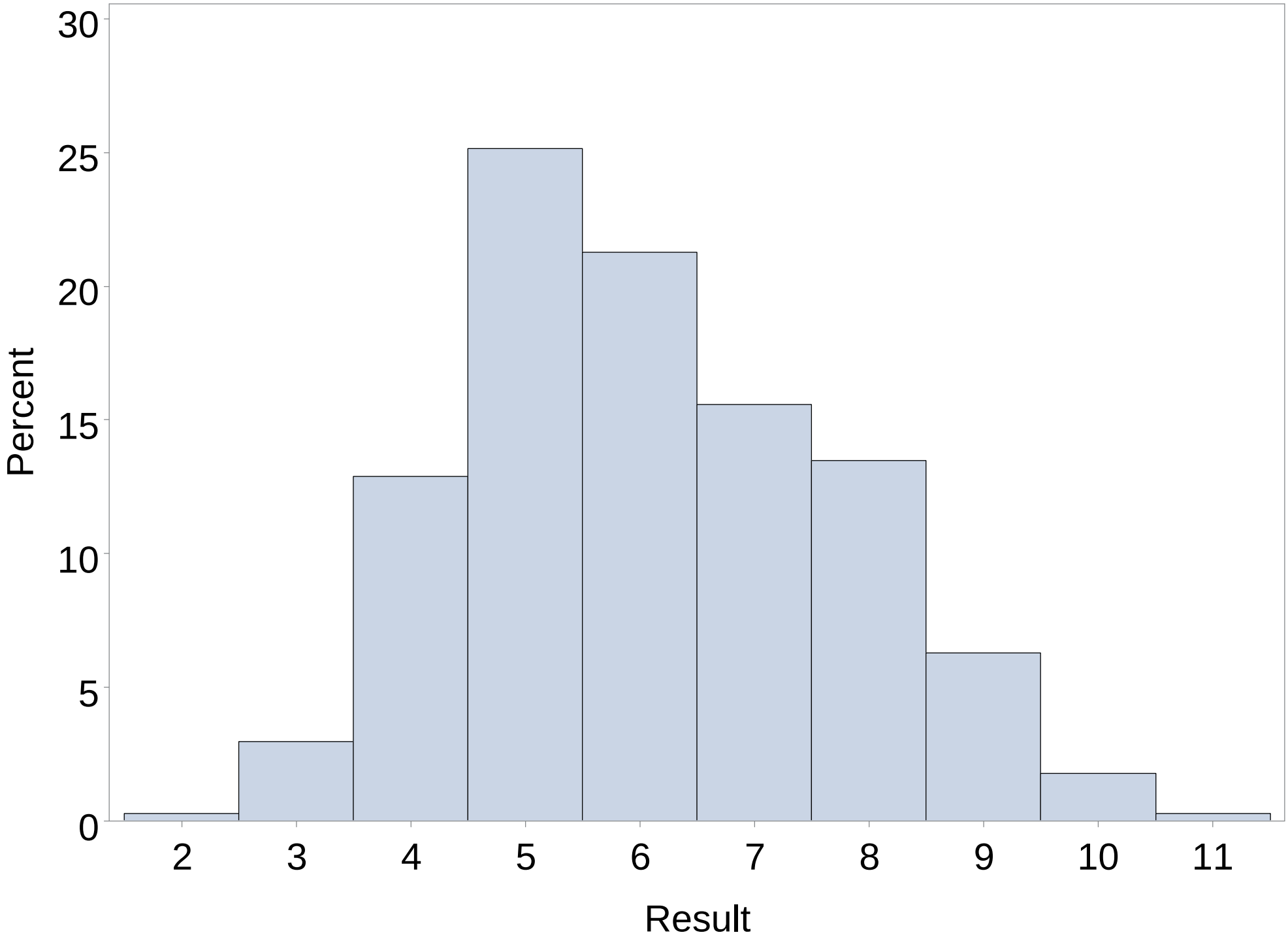
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	69.00799	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.27200
99%	10.27800
95%	8.79800
90%	8.32000
75% Q3	7.22333
50% Median	5.92567
25% Q1	4.83167
10%	4.10800
5%	3.77250
1%	3.11667
0% Min	2.15800

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.15800	40776	9.785	41081
2.95250	40988	10.278	40927
3.08333	40956	10.375	40821
3.11667	41077	10.410	40914
3.21200	41003	11.272	40928


Parameter=Water Column Average DO (mg/L) STATION=5
Percent
30
25
20
15
10
5
0
2
3
4
5
6
7
8
9
10
11
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=6

Moments			
N	332	**Sum Weights**	332
Mean	6.11640024	**Sum Observations**	2030.64488
Std Deviation	1.70940088	**Variance**	2.92205137
Skewness	0.46325894	**Kurtosis**	0.22153473
Uncorrected SS	13387.4358	**Corrected SS**	967.199002
Coeff Variation	27.9478257	**Std Error Mean**	0.09381556

Basic Statistical Measures			
Location		**Variability**	
Mean	6.116400	**Std Deviation**	1.70940
Median	6.067500	**Variance**	2.92205
Mode	4.560000	**Range**	11.23250
		Interquartile Range	2.53958

Note: The mode displayed is the smallest of 4 modes with a count of 2.

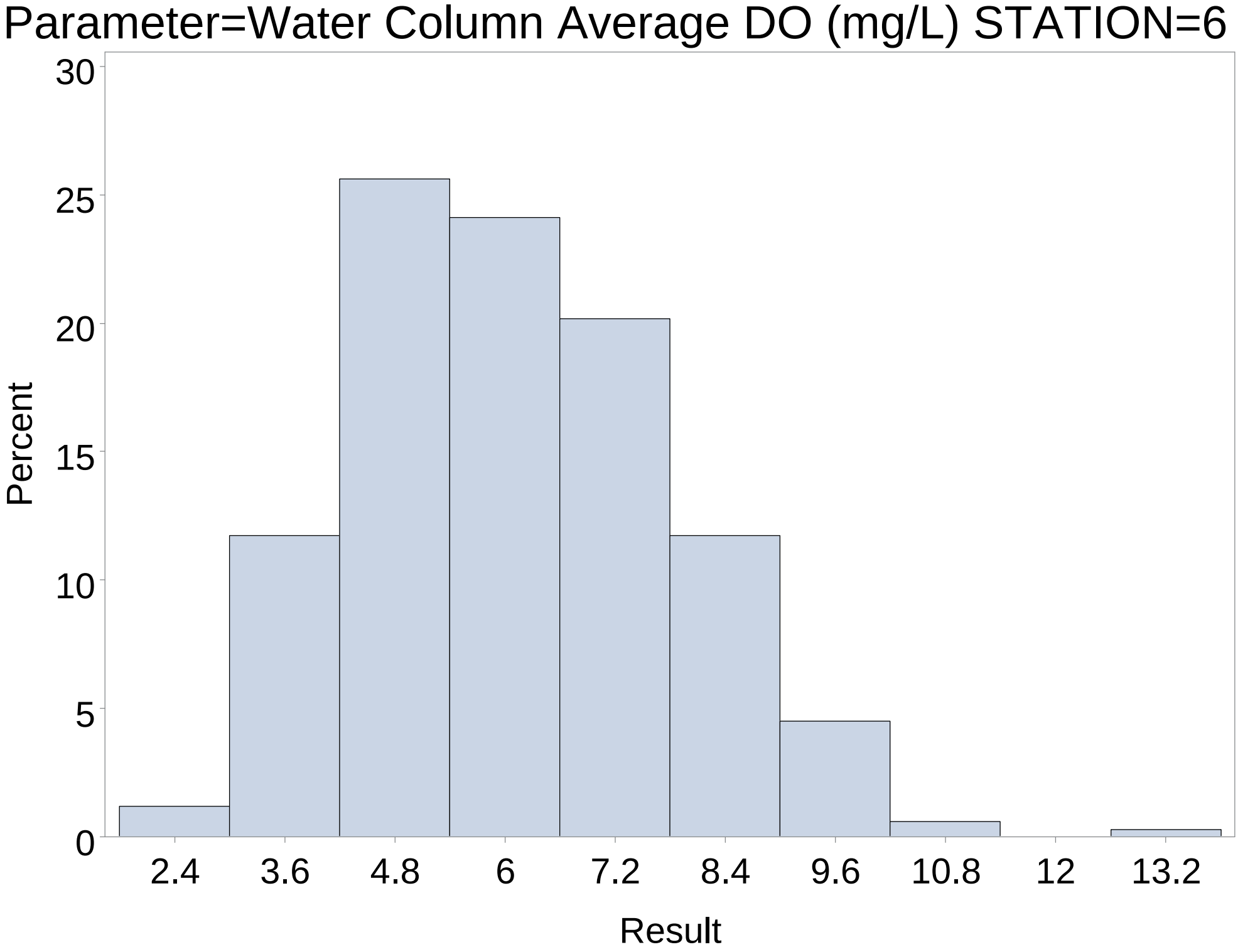
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.19601	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.33250
99%	10.06000
95%	9.08250
90%	8.28500
75% Q3	7.34500
50% Median	6.06750
25% Q1	4.80542
10%	4.04750
5%	3.68250
1%	2.97800
0% Min	2.10000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.1000	41110	10.0100	41143
2.8120	41313	10.0600	41413
2.9725	41288	10.4000	41212
2.9780	41320	11.0225	41260
3.0840	41316	13.3325	41259


Parameter=Water Column Average DO (mg/L) STATION=6
Percent
30
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=7

Moments			
N	332	**Sum Weights**	332
Mean	6.31754289	**Sum Observations**	2097.42424
Std Deviation	1.74786491	**Variance**	3.05503174
Skewness	0.20381657	**Kurtosis**	-0.3240243
Uncorrected SS	14261.7831	**Corrected SS**	1011.21551
Coeff Variation	27.6668468	**Std Error Mean**	0.09592655

Basic Statistical Measures			
Location		**Variability**	
Mean	6.317543	**Std Deviation**	1.74786
Median	6.330417	**Variance**	3.05503
Mode	4.680000	**Range**	9.65464
		Interquartile Range	2.55050

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

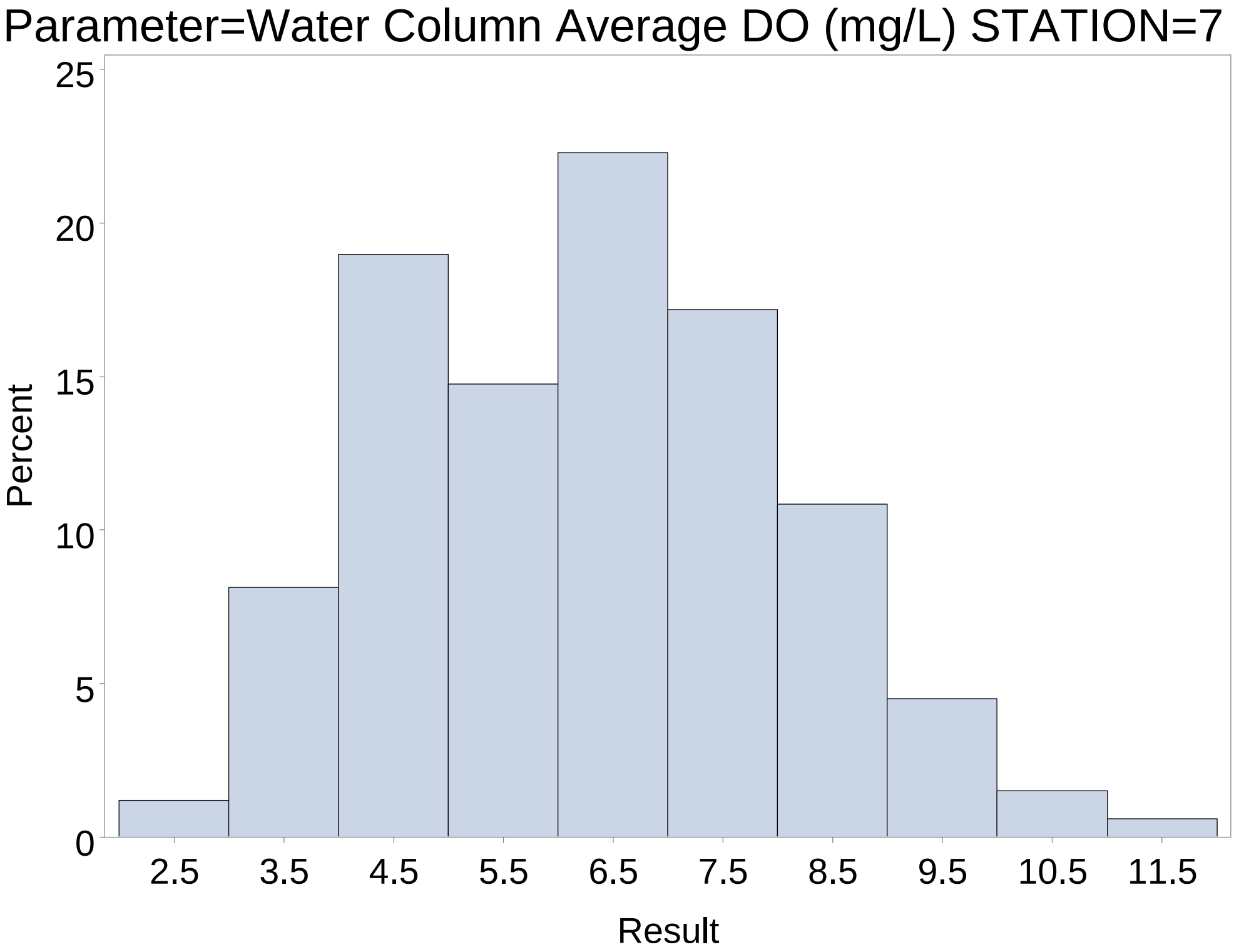
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.85813	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.71714
99%	10.54500
95%	9.29000
90%	8.57500
75% Q3	7.44100
50% Median	6.33042
25% Q1	4.89050
10%	4.04500
5%	3.59333
1%	2.93800
0% Min	2.06250

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.0625	41442	10.5356	41588
2.8460	41645	10.5450	41592
2.9140	41648	10.6033	41544
2.9380	41716	11.3013	41591
3.0080	41741	11.7171	41578


Parameter=Water Column Average DO (mg/L) STATION=7
25
20
15
10
5
0
Percent
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=8

Moments			
N	331	**Sum Weights**	331
Mean	6.40727503	**Sum Observations**	2120.80804
Std Deviation	1.960995	**Variance**	3.84550141
Skewness	0.36544344	**Kurtosis**	1.60940168
Uncorrected SS	14857.6158	**Corrected SS**	1269.01546
Coeff Variation	30.6057567	**Std Error Mean**	0.10778603

Basic Statistical Measures			
Location		**Variability**	
Mean	6.407275	**Std Deviation**	1.96100
Median	6.433333	**Variance**	3.84550
Mode	5.902500	**Range**	16.11600
		Interquartile Range	2.41000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

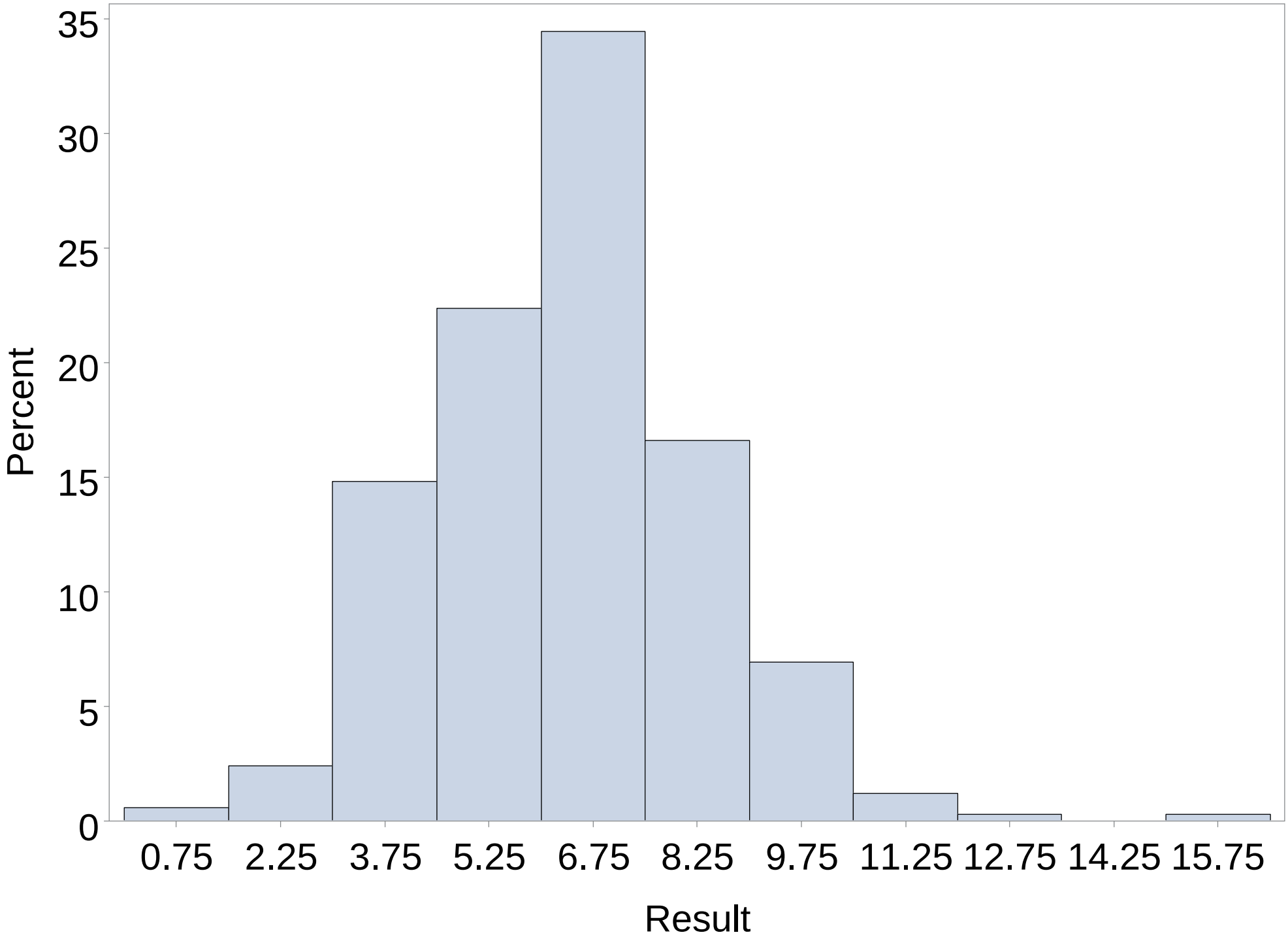
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	59.44439	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.45600
99%	11.05800
95%	9.45500
90%	8.85000
75% Q3	7.57000
50% Median	6.43333
25% Q1	5.16000
10%	3.86667
5%	3.19333
1%	2.70200
0% Min	0.34000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.34000	41849	10.8267	41899
1.24167	41917	11.0580	41919
2.63000	42022	11.2917	41922
2.70200	41871	12.3033	42076
2.72667	41926	16.4560	41909


Parameter=Water Column Average DO (mg/L) STATION=8
Percent
35
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=9

Moments			
N	332	**Sum Weights**	332
Mean	6.47661889	**Sum Observations**	2150.23747
Std Deviation	1.9360427	**Variance**	3.74826135
Skewness	0.48904067	**Kurtosis**	1.50139133
Uncorrected SS	15166.9431	**Corrected SS**	1240.67451
Coeff Variation	29.8927996	**Std Error Mean**	0.10625415

Basic Statistical Measures			
Location		**Variability**	
Mean	6.476619	**Std Deviation**	1.93604
Median	6.527571	**Variance**	3.74826
Mode	5.350000	**Range**	14.24750
		Interquartile Range	2.57925

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

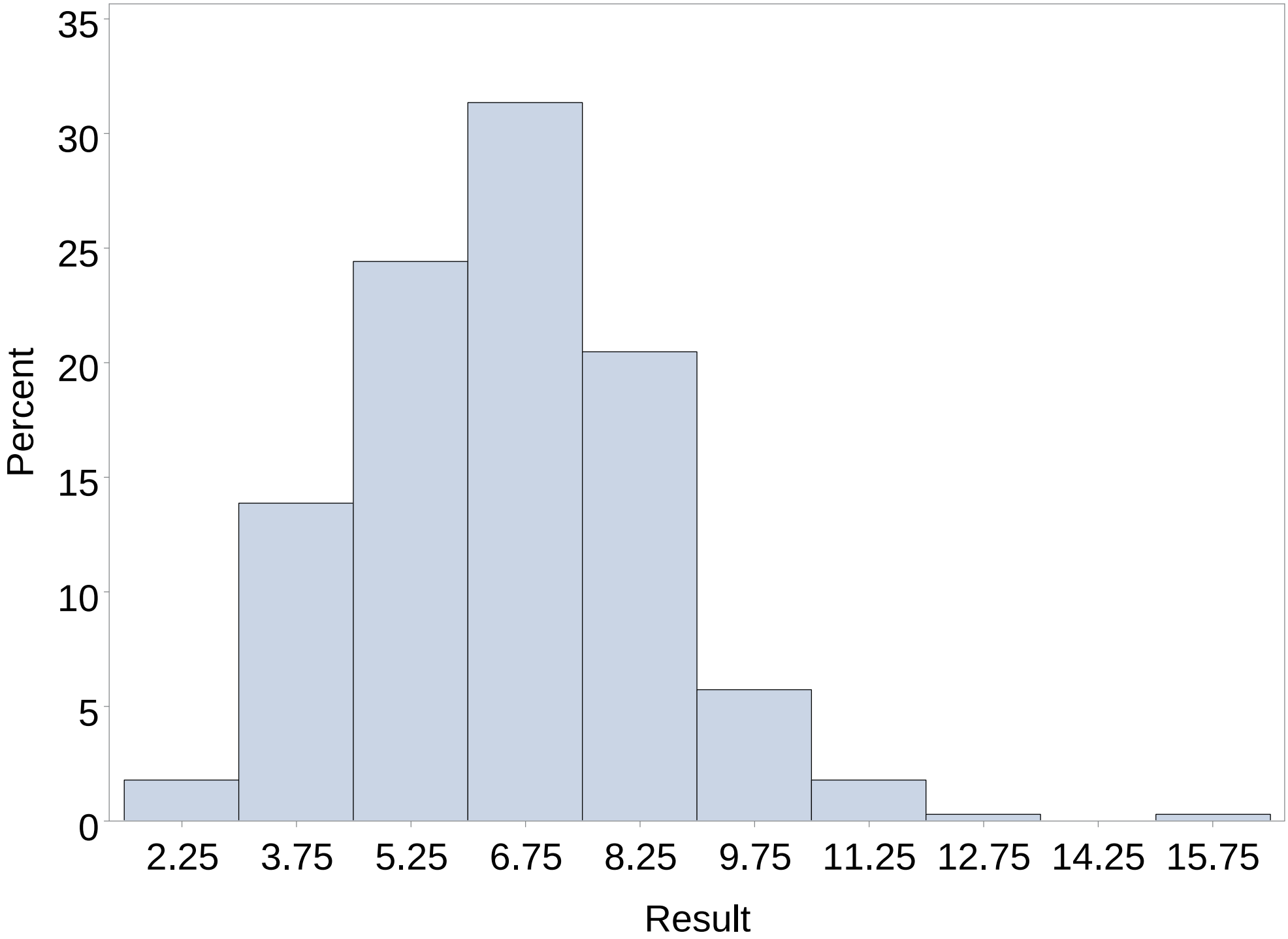
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	60.95403	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.37750
99%	11.16571
95%	9.47222
90%	8.87143
75% Q3	7.70000
50% Median	6.52757
25% Q1	5.12075
10%	3.92556
5%	3.43000
1%	2.33857
0% Min	2.13000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.13000	42105	11.0260	42100
2.15375	42308	11.1657	42271
2.24333	42249	11.5383	42231
2.33857	42166	12.5213	42254
2.93571	42380	16.3775	42241


Parameter=Water Column Average DO (mg/L) STATION=9
Percent
35
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=10

Moments			
N	334	**Sum Weights**	334
Mean	6.44876476	**Sum Observations**	2153.88743
Std Deviation	1.79788302	**Variance**	3.23238335
Skewness	0.34573148	**Kurtosis**	0.35242037
Uncorrected SS	14966.297	**Corrected SS**	1076.38365
Coeff Variation	27.8794945	**Std Error Mean**	0.09837578

Basic Statistical Measures			
Location		**Variability**	
Mean	6.448765	**Std Deviation**	1.79788
Median	6.347500	**Variance**	3.23238
Mode	5.370000	**Range**	11.79167
		Interquartile Range	2.41833

Note: The mode displayed is the smallest of 12 modes with a count of 2.

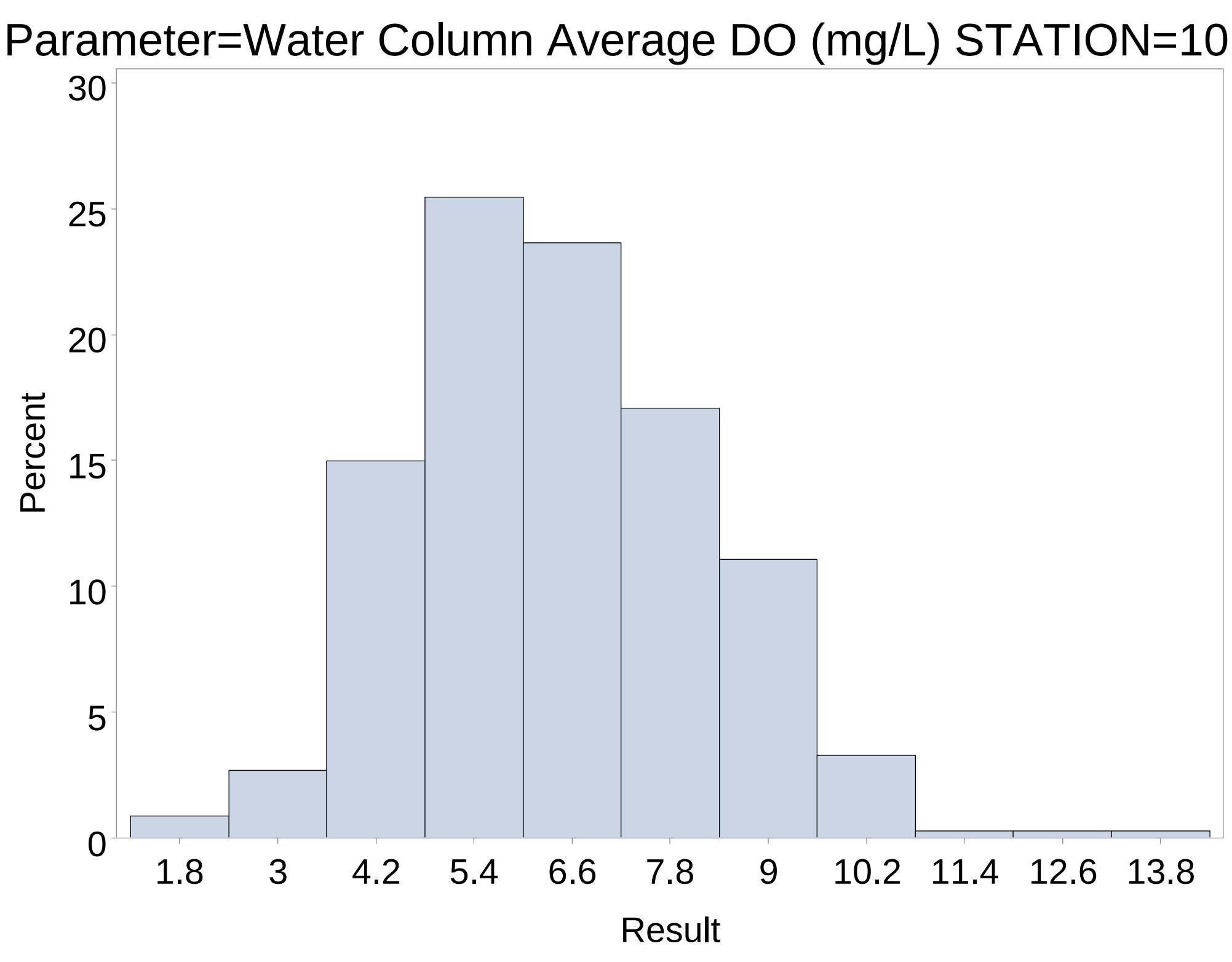
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	65.55236	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.46000
99%	10.50750
95%	9.31750
90%	8.79000
75% Q3	7.65500
50% Median	6.34750
25% Q1	5.23667
10%	4.28000
5%	3.73250
1%	2.94500
0% Min	1.66833

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.66833	42555	10.4750	42599
1.86750	42749	10.5075	42574
2.08333	42544	11.9225	42575
2.94500	42538	12.0175	42589
3.00250	42542	13.4600	42588


Parameter=Water Column Average DO (mg/L) STATION=10
Percent
30
25
20
15
10
5
0
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
13.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=11

Moments			
N	331	**Sum Weights**	331
Mean	6.36123177	**Sum Observations**	2105.56771
Std Deviation	1.80131878	**Variance**	3.24474935
Skewness	0.24605918	**Kurtosis**	0.12565751
Uncorrected SS	14464.7715	**Corrected SS**	1070.76728
Coeff Variation	28.317138	**Std Error Mean**	0.09900943

Basic Statistical Measures			
Location		**Variability**	
Mean	6.361232	**Std Deviation**	1.80132
Median	6.270000	**Variance**	3.24475
Mode	5.597500	**Range**	10.90750
		Interquartile Range	2.56000

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

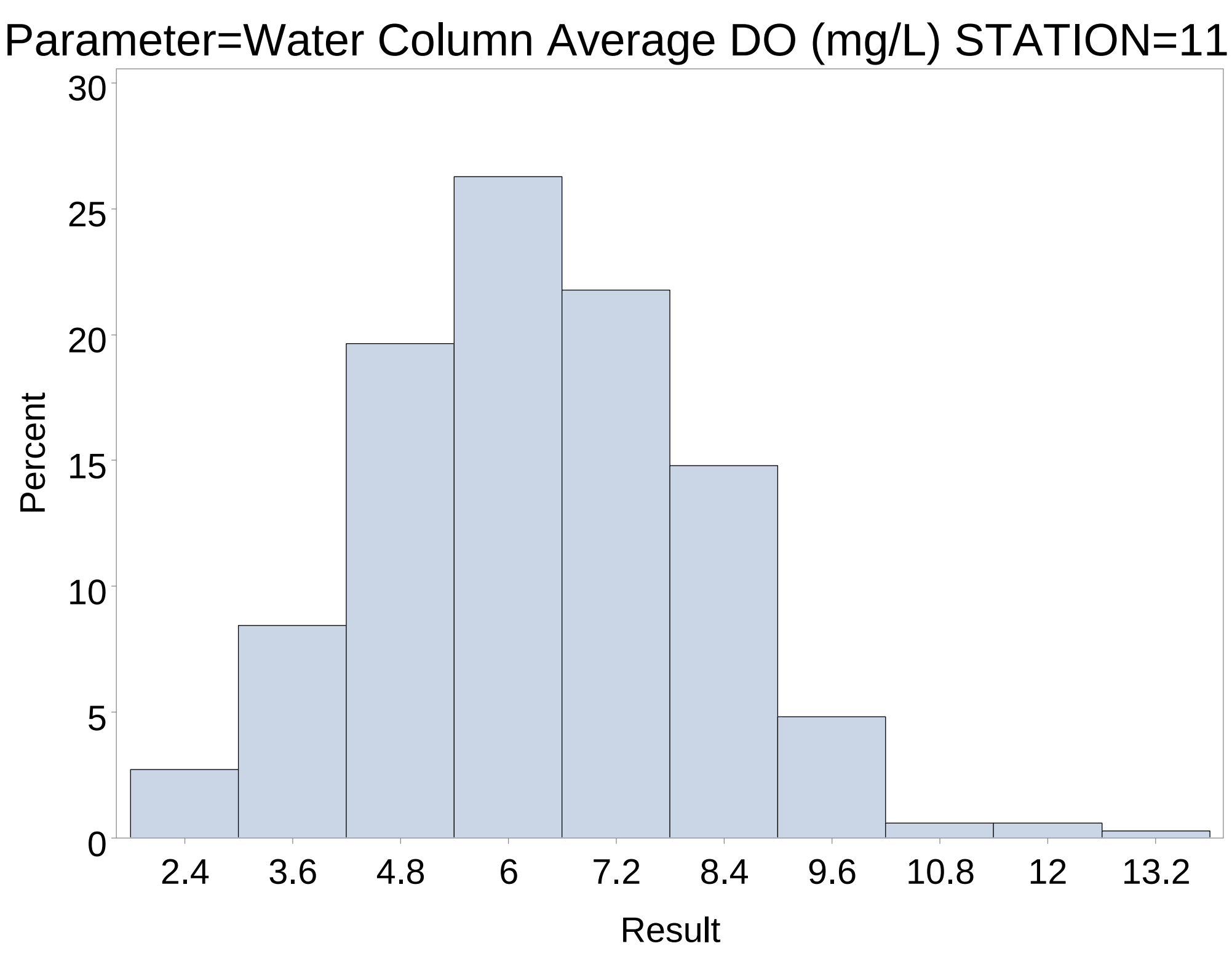
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	64.24874	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.9625
99%	10.4725
95%	9.2725
90%	8.7175
75% Q3	7.6900
50% Median	6.2700
25% Q1	5.1300
10%	4.0325
5%	3.4860
1%	2.4525
0% Min	2.0550

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.0550	42887	10.2475	42917
2.3350	42953	10.4725	42931
2.4100	42994	11.5000	42907
2.4525	42935	12.2675	42921
2.5360	43077	12.9625	42920


Parameter=Water Column Average DO (mg/L) STATION=11
Percent
30
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=12

Moments			
N	332	**Sum Weights**	332
Mean	5.92750431	**Sum Observations**	1967.93143
Std Deviation	1.53533335	**Variance**	2.3572485
Skewness	0.67679686	**Kurtosis**	0.89008704
Uncorrected SS	12445.1713	**Corrected SS**	780.249252
Coeff Variation	25.9018512	**Std Error Mean**	0.08426236

Basic Statistical Measures			
Location		**Variability**	
Mean	5.927504	**Std Deviation**	1.53533
Median	5.723929	**Variance**	2.35725
Mode	5.220000	**Range**	10.36500
		Interquartile Range	1.89803

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

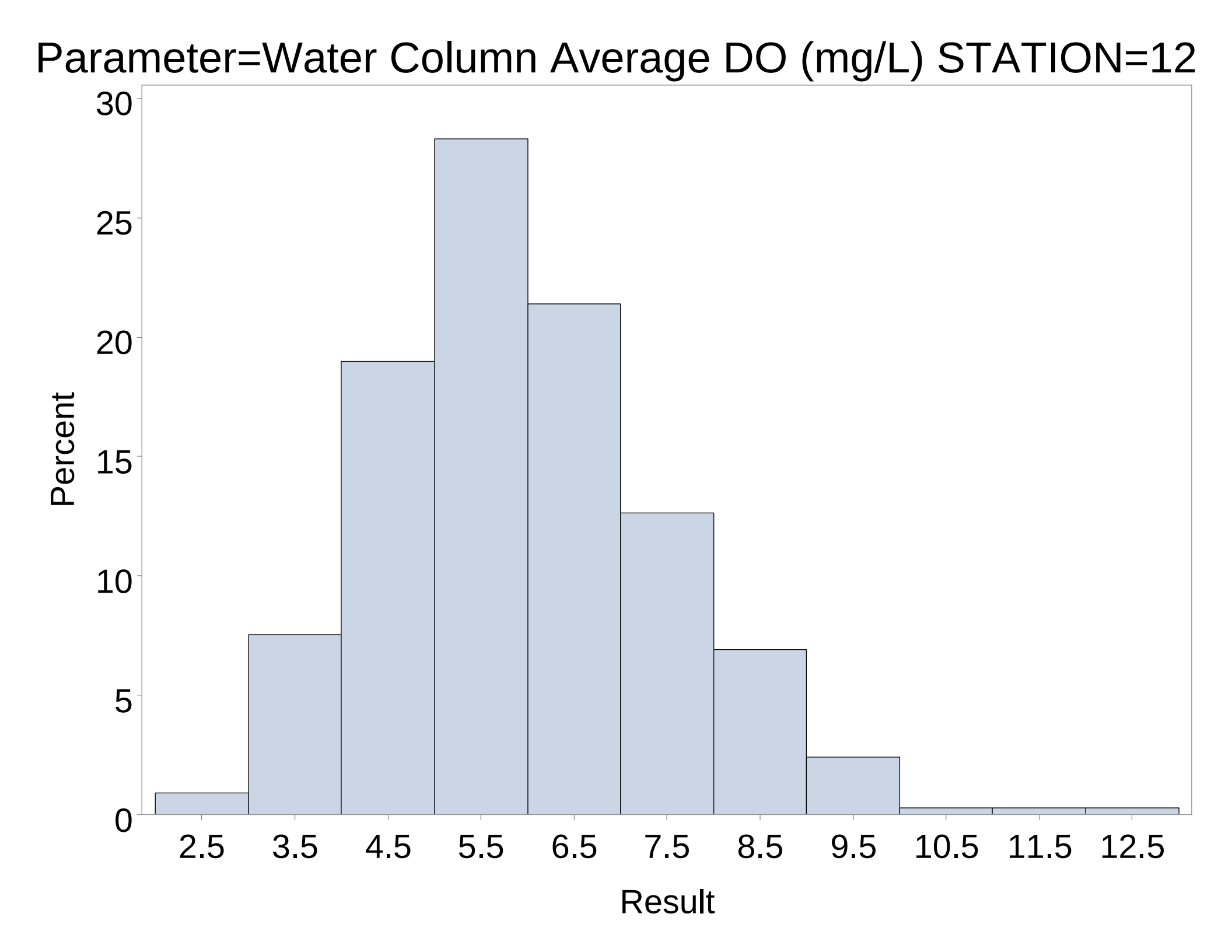
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	70.34581	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.69750
99%	9.50500
95%	8.70875
90%	8.01625
75% Q3	6.82567
50% Median	5.72393
25% Q1	4.92764
10%	4.13167
5%	3.75500
1%	3.01143
0% Min	2.33250

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.33250	43102	9.4500	43239
2.78875	43101	9.5050	43263
2.94143	43244	10.8933	43146
3.01143	43312	11.0286	43253
3.06333	43305	12.6975	43252


Parameter=Water Column Average DO (mg/L) STATION=12
Percent
30
25
20
15
10
5
0
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
12.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=13

Moments			
N	333	**Sum Weights**	333
Mean	6.0255216	**Sum Observations**	2006.49869
Std Deviation	1.61111838	**Variance**	2.59570245
Skewness	0.60550502	**Kurtosis**	0.61529748
Uncorrected SS	12951.9744	**Corrected SS**	861.773213
Coeff Variation	26.7382393	**Std Error Mean**	0.08828874

Basic Statistical Measures			
Location		**Variability**	
Mean	6.025522	**Std Deviation**	1.61112
Median	5.940000	**Variance**	2.59570
Mode	4.730000	**Range**	10.59000
		Interquartile Range	2.30714

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

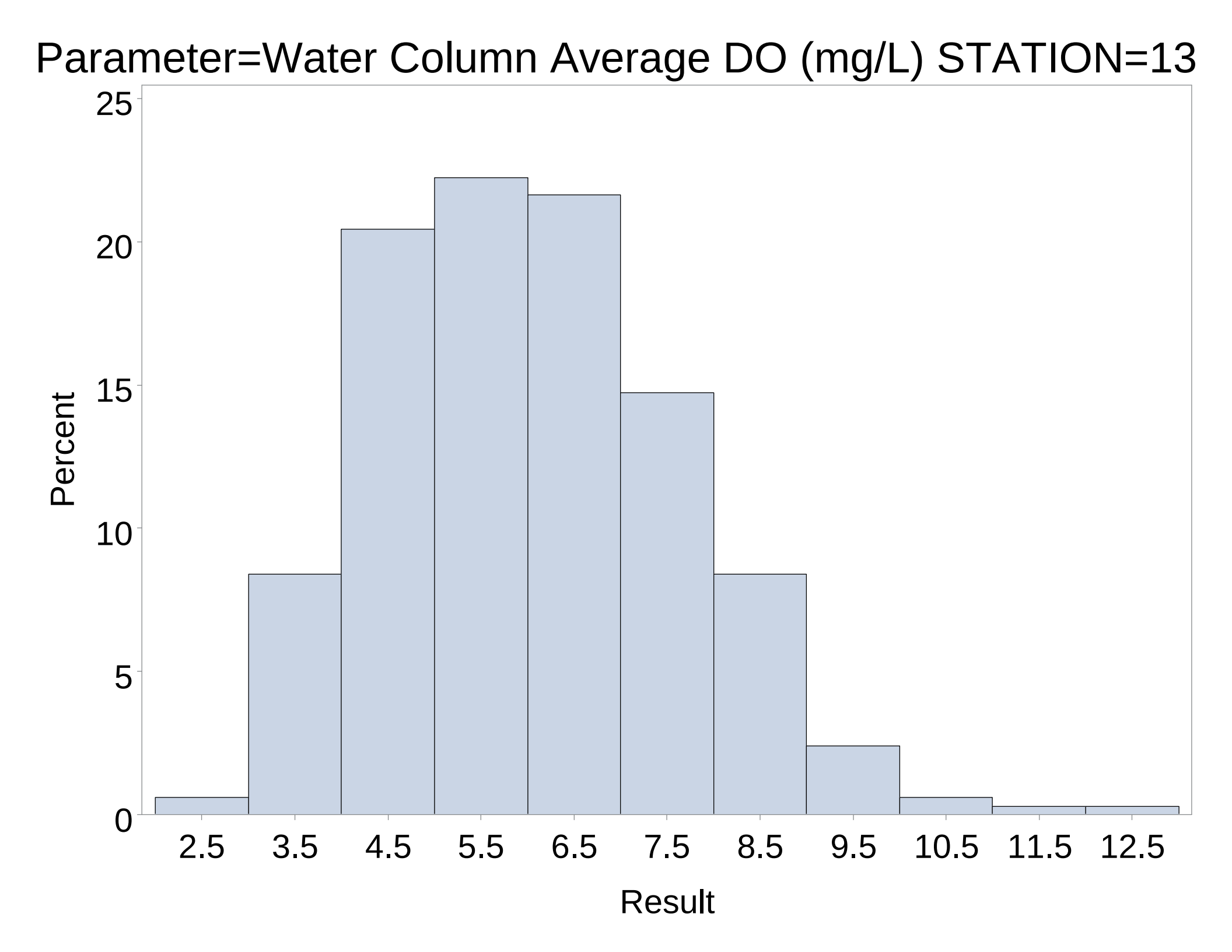
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	68.2479	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.88000
99%	10.25667
95%	8.79800
90%	8.14000
75% Q3	7.09000
50% Median	5.94000
25% Q1	4.78286
10%	4.11000
5%	3.72000
1%	3.16857
0% Min	2.29000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.29000	43434	9.6550	43738
2.96167	43638	10.2567	43571
3.01500	43645	10.8688	43478
3.16857	43734	11.4786	43585
3.17750	43613	12.8800	43584


Parameter=Water Column Average DO (mg/L) STATION=13
Percent
25
20
15
10
5
0
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
12.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=14

Moments			
N	332	**Sum Weights**	332
Mean	6.14393299	**Sum Observations**	2039.78575
Std Deviation	1.69592147	**Variance**	2.87614963
Skewness	0.48224633	**Kurtosis**	0.35070049
Uncorrected SS	13484.3125	**Corrected SS**	952.005526
Coeff Variation	27.6031895	**Std Error Mean**	0.09307578

Basic Statistical Measures			
Location		**Variability**	
Mean	6.143933	**Std Deviation**	1.69592
Median	6.026667	**Variance**	2.87615
Mode	4.027500	**Range**	11.48322
		Interquartile Range	2.47900

Note: The mode displayed is the smallest of 14 modes with a count of 2.

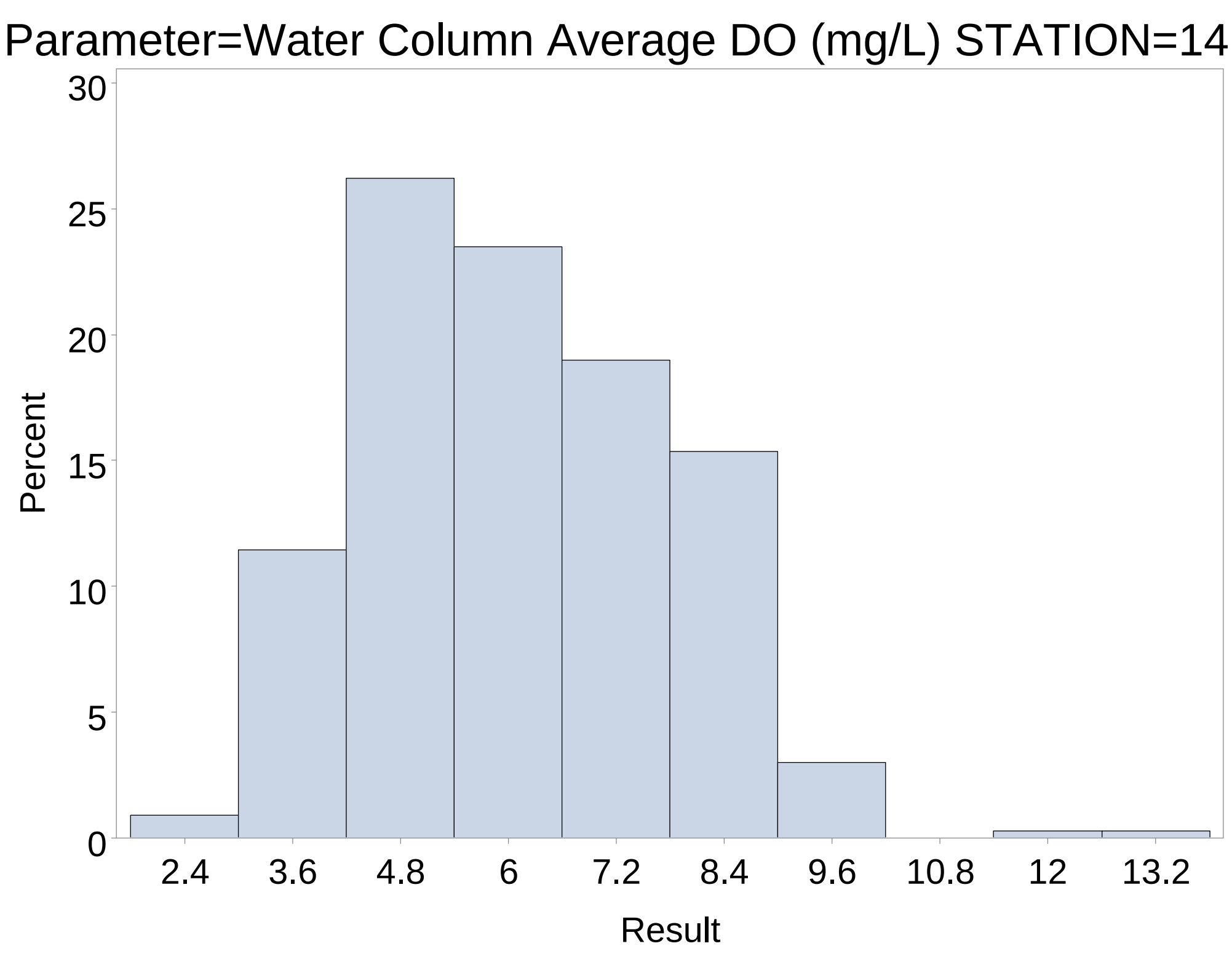
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	66.01001	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.58222
99%	9.86000
95%	8.87778
90%	8.36250
75% Q3	7.31200
50% Median	6.02667
25% Q1	4.83300
10%	4.03167
5%	3.74000
1%	3.05250
0% Min	2.09900

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.0990	43767	9.75667	44000
2.8400	43945	9.86000	43869
2.9820	43992	9.96200	43800
3.0525	44066	11.57250	43917
3.0600	43977	13.58222	43916


Parameter=Water Column Average DO (mg/L) STATION=14
Percent
30
25
20
15
10
5
0
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=15

Moments			
N	331	**Sum Weights**	331
Mean	6.1681318	**Sum Observations**	2041.65163
Std Deviation	1.76888339	**Variance**	3.12894844
Skewness	0.40774042	**Kurtosis**	-0.0356824
Uncorrected SS	13625.7293	**Corrected SS**	1032.55298
Coeff Variation	28.6777819	**Std Error Mean**	0.09722662

Basic Statistical Measures			
Location		**Variability**	
Mean	6.168132	**Std Deviation**	1.76888
Median	6.055000	**Variance**	3.12895
Mode	4.765000	**Range**	10.58083
		Interquartile Range	2.53800

Note: The mode displayed is the smallest of 4 modes with a count of 2.

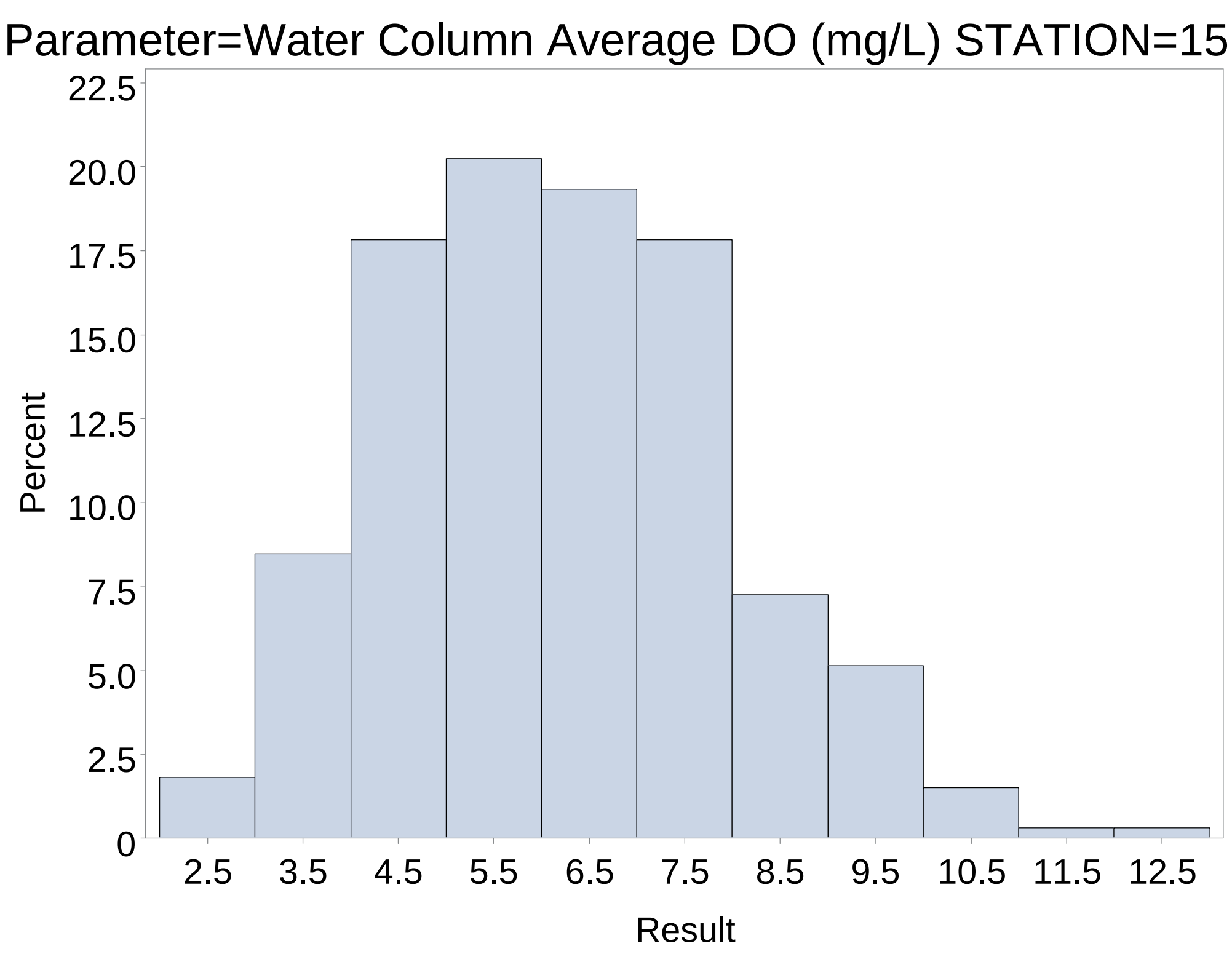
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	63.44077	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.63333
99%	10.57000
95%	9.23091
90%	8.65333
75% Q3	7.36400
50% Median	6.05500
25% Q1	4.82600
10%	3.96800
5%	3.54500
1%	2.90200
0% Min	2.05250

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.05250	44099	10.1825	44224
2.63700	44301	10.5700	44201
2.83833	44372	10.9850	44248
2.90200	44304	11.1300	44244
2.94083	44308	12.6333	44247


Parameter=Water Column Average DO (mg/L) STATION=15
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
2.5
3.5
4.5
5.5
6.5
7.5
8.5
9.5
10.5
11.5
12.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=16

Moments			
N	332	**Sum Weights**	332
Mean	6.49958456	**Sum Observations**	2157.86207
Std Deviation	1.89888073	**Variance**	3.60574803
Skewness	0.48242413	**Kurtosis**	1.4216167
Uncorrected SS	15218.7096	**Corrected SS**	1193.5026
Coeff Variation	29.2154169	**Std Error Mean**	0.10421462

Basic Statistical Measures			
Location		**Variability**	
Mean	6.499585	**Std Deviation**	1.89888
Median	6.562000	**Variance**	3.60575
Mode	6.106667	**Range**	14.16400
		Interquartile Range	2.64083

Note: The mode displayed is the smallest of 8 modes with a count of 2.

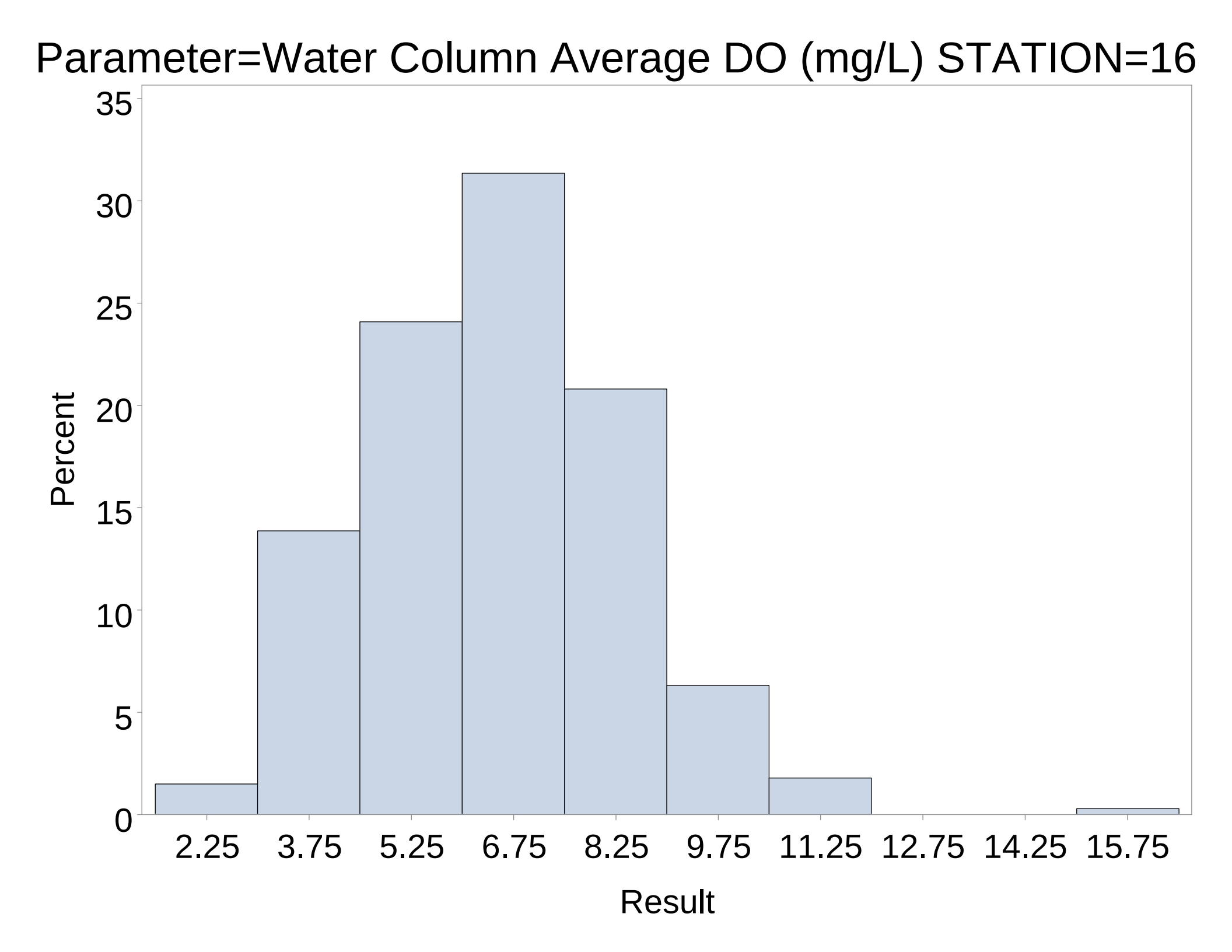
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	62.3673	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.29400
99%	11.18889
95%	9.56000
90%	8.76333
75% Q3	7.73250
50% Median	6.56200
25% Q1	5.09167
10%	4.04000
5%	3.47600
1%	2.90400
0% Min	2.13000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.13000	44430	10.6760	44596
2.57800	44574	11.1889	44576
2.79200	44633	11.4138	44556
2.90400	44704	11.5840	44579
2.99833	44636	16.2940	44566


Parameter=Water Column Average DO (mg/L) STATION=16
Percent
35
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=17

Moments			
N	331	**Sum Weights**	331
Mean	6.59848227	**Sum Observations**	2184.09763
Std Deviation	1.922385	**Variance**	3.69556409
Skewness	0.61492867	**Kurtosis**	2.0769983
Uncorrected SS	15631.2656	**Corrected SS**	1219.53615
Coeff Variation	29.133745	**Std Error Mean**	0.10566384

Basic Statistical Measures			
Location		**Variability**	
Mean	6.598482	**Std Deviation**	1.92238
Median	6.617500	**Variance**	3.69556
Mode	3.140000	**Range**	14.76750
		Interquartile Range	2.59250

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

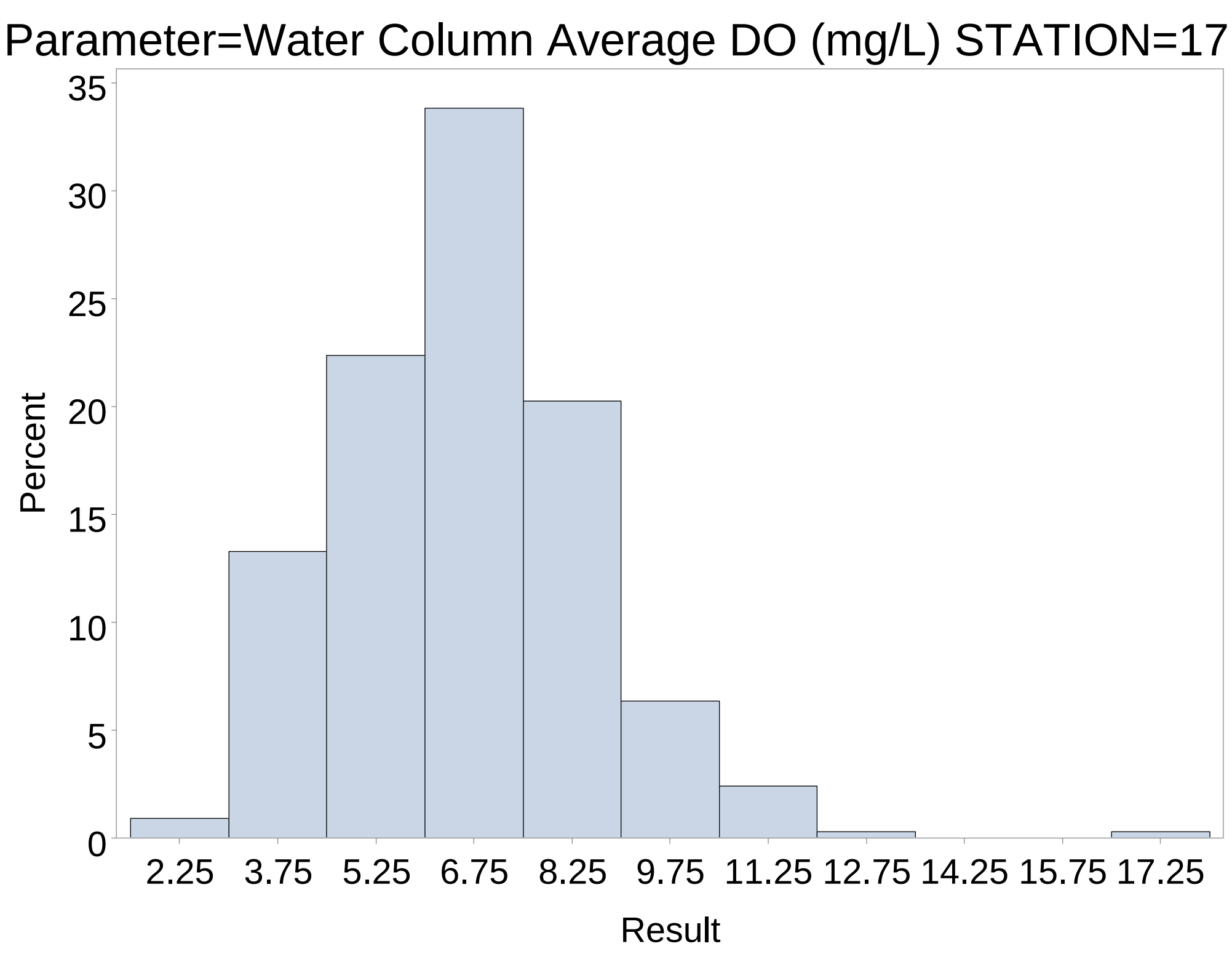
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	62.44788	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.96750
99%	11.07333
95%	9.61667
90%	8.94500
75% Q3	7.71500
50% Median	6.61750
25% Q1	5.12250
10%	4.13667
5%	3.58667
1%	3.03333
0% Min	2.20000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.20000	44762	10.9275	44757
2.64750	44964	11.0733	44927
2.98500	45035	11.6875	44887
3.03333	44967	13.2250	44910
3.09000	45060	16.9675	44897


Parameter=Water Column Average DO (mg/L) STATION=17
Percent
35
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
17.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=18

Moments			
N	328	**Sum Weights**	328
Mean	6.37124205	**Sum Observations**	2089.76739
Std Deviation	2.04325151	**Variance**	4.17487672
Skewness	0.73746751	**Kurtosis**	2.76725632
Uncorrected SS	14679.5986	**Corrected SS**	1365.18469
Coeff Variation	32.0699087	**Std Error Mean**	0.11281969

Basic Statistical Measures			
Location		**Variability**	
Mean	6.371242	**Std Deviation**	2.04325
Median	6.312292	**Variance**	4.17488
Mode	5.592500	**Range**	16.32167
		Interquartile Range	2.82314

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

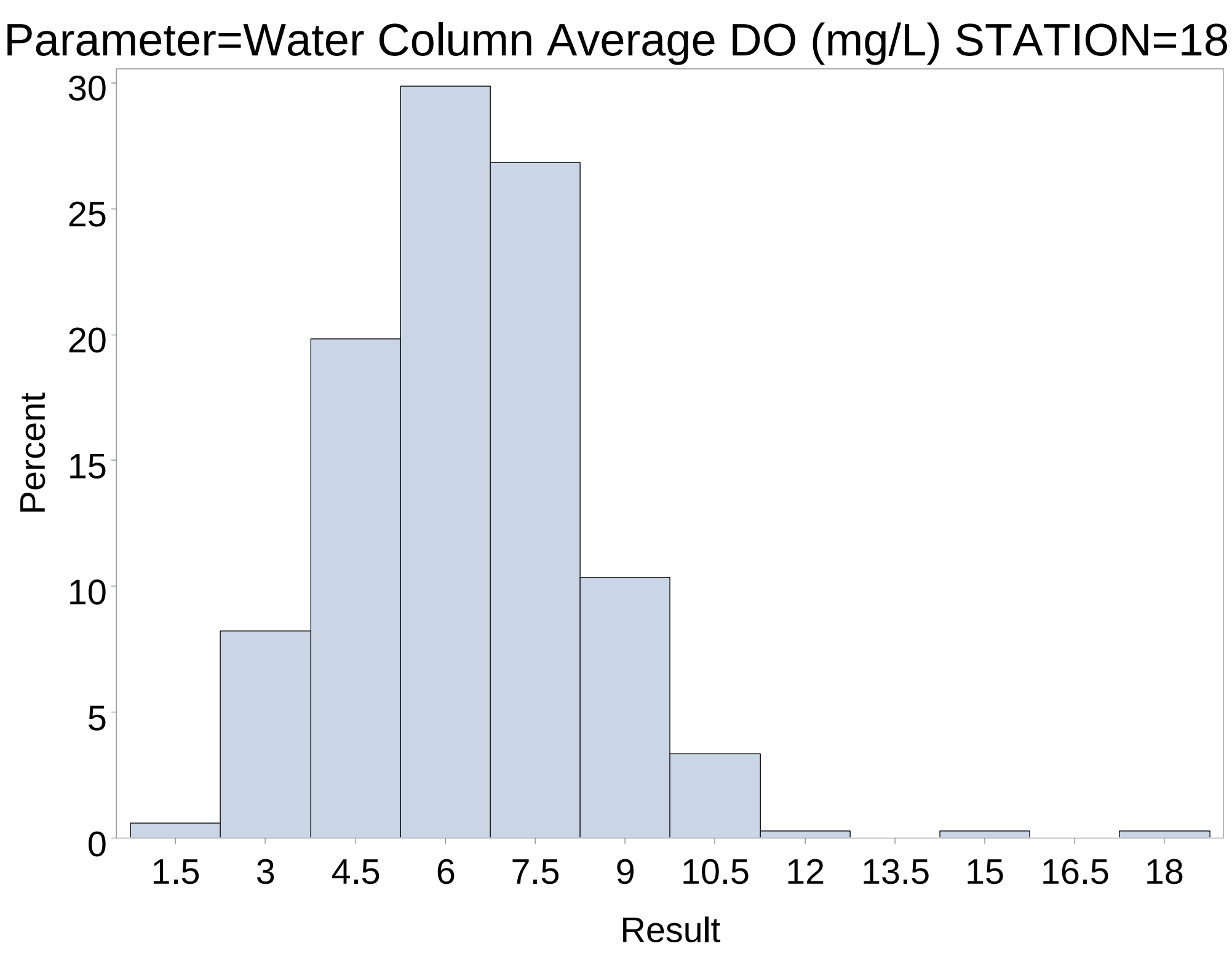
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	56.47278	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.57667
99%	11.14286
95%	9.54750
90%	8.78125
75% Q3	7.68464
50% Median	6.31229
25% Q1	4.86150
10%	3.85000
5%	3.31667
1%	2.34000
0% Min	1.25500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.25500	45234	11.1080	45216
1.65600	45388	11.1429	45392
2.31200	45339	11.9850	45090
2.34000	45364	14.9400	45226
2.65333	45093	17.5767	45239


Parameter=Water Column Average DO (mg/L) STATION=18
Percent
30
25
20
15
10
5
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=19

Moments			
N	331	**Sum Weights**	331
Mean	6.59168068	**Sum Observations**	2181.84631
Std Deviation	1.98290727	**Variance**	3.93192125
Skewness	0.58144477	**Kurtosis**	2.14046825
Uncorrected SS	15679.5682	**Corrected SS**	1297.53401
Coeff Variation	30.081968	**Std Error Mean**	0.10899044

Basic Statistical Measures			
Location		**Variability**	
Mean	6.591681	**Std Deviation**	1.98291
Median	6.706667	**Variance**	3.93192
Mode	7.810000	**Range**	15.06000
		Interquartile Range	2.65167

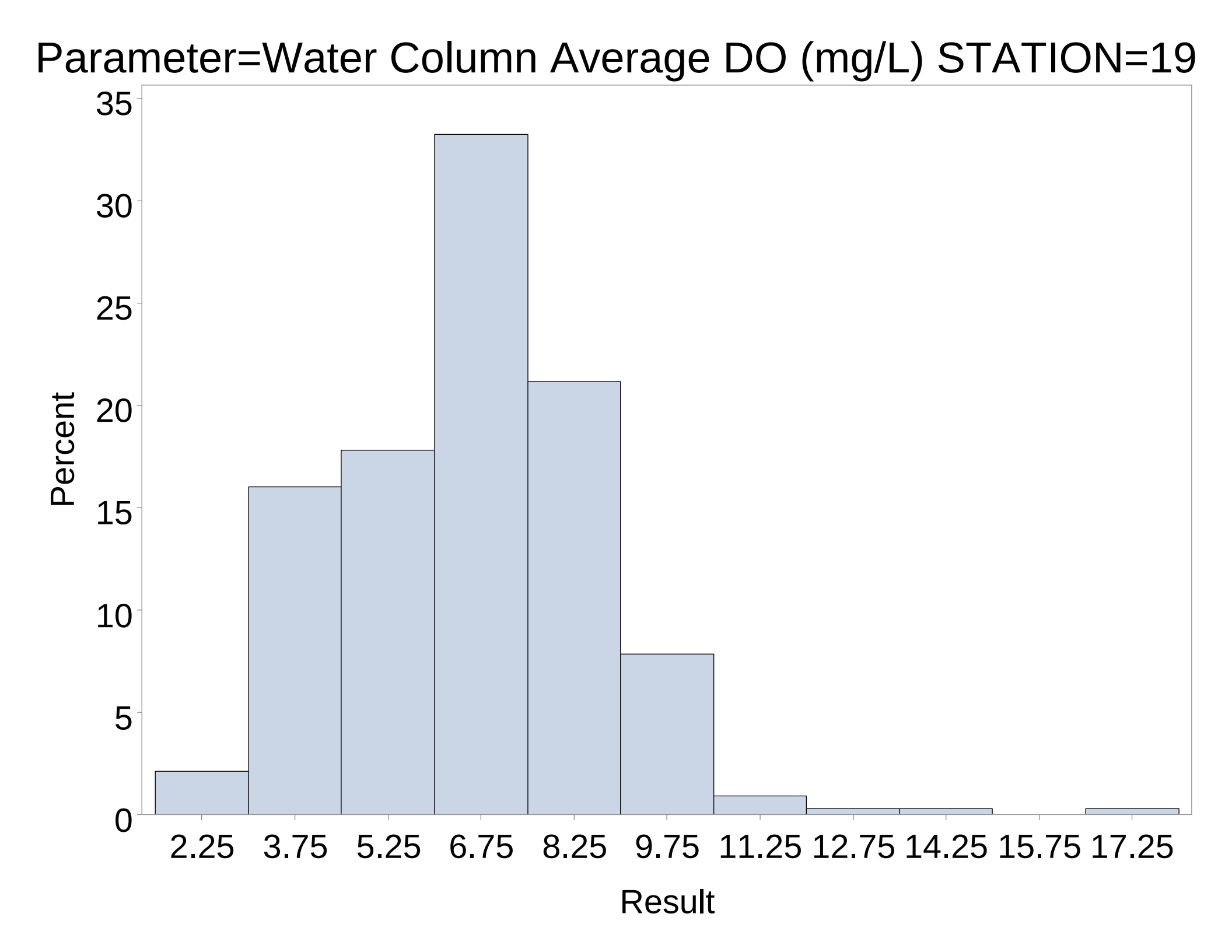
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	60.47944	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.02000
99%	11.64000
95%	9.57000
90%	8.99000
75% Q3	7.81000
50% Median	6.70667
25% Q1	5.15833
10%	4.07000
5%	3.63333
1%	2.43750
0% Min	1.96000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.96000	45565	11.000	45547
2.37333	45421	11.640	45416
2.42000	45622	12.596	45570
2.43750	45624	14.192	45557
2.49500	45623	17.020	45587


Parameter=Water Column Average DO (mg/L) STATION=19
Percent
35
30
25
20
15
10
5
0
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
17.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	5.06888889	**Sum Observations**	5.06888889
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	25.6936346	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	5.068889	**Std Deviation**	.
Median	5.068889	**Variance**	.
Mode	5.068889	**Range**	0
		Interquartile Range	0

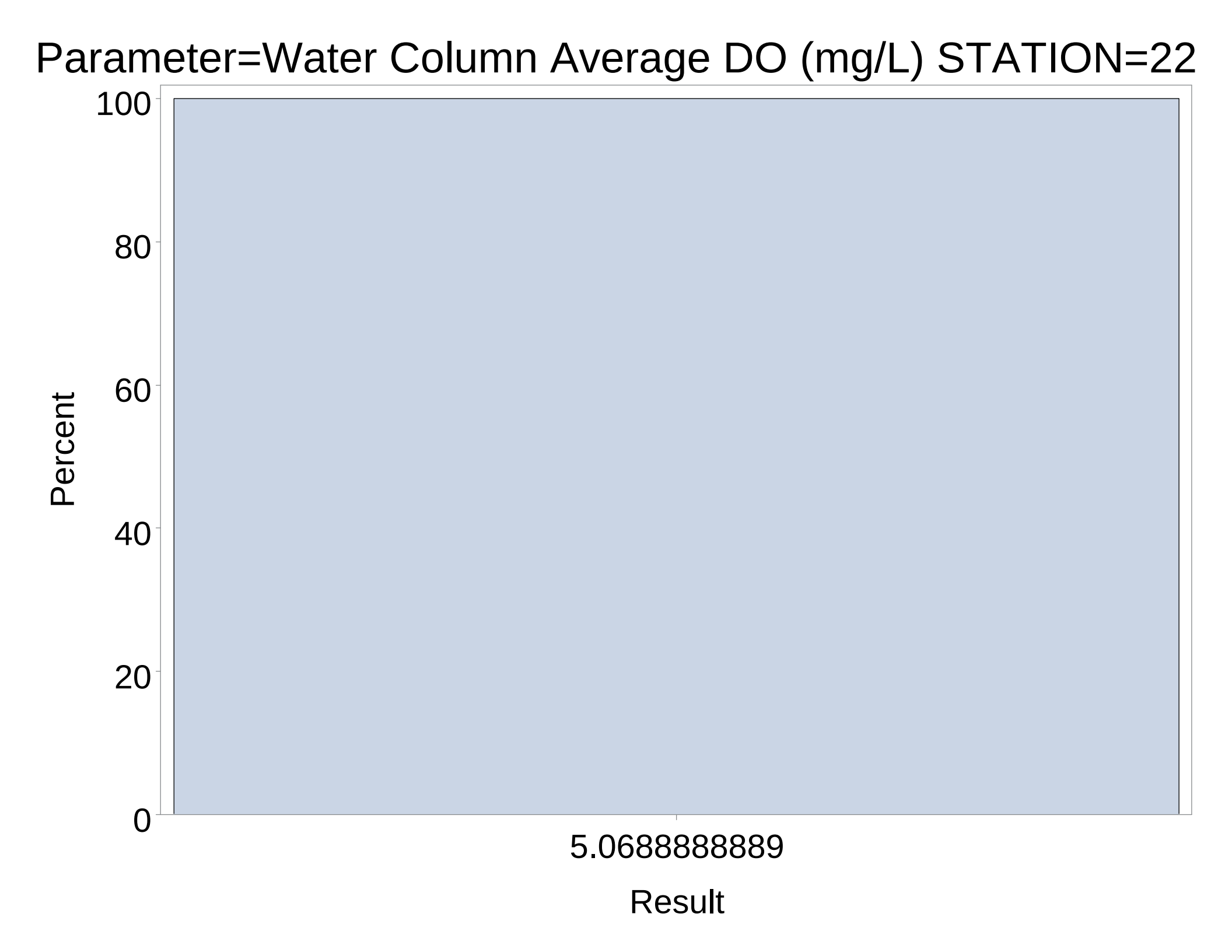
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	5.06889
99%	5.06889
95%	5.06889
90%	5.06889
75% Q3	5.06889
50% Median	5.06889
25% Q1	5.06889
10%	5.06889
5%	5.06889
1%	5.06889
0% Min	5.06889

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average DO (mg/L) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.06889	45735	5.06889	45735


Parameter=Water Column Average DO (mg/L) STATION=22
100
80
60
40
20
0
Percent
5.0688888889
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=1

Moments			
N	107	**Sum Weights**	107
Mean	2.07757009	**Sum Observations**	222.3
Std Deviation	0.77091081	**Variance**	0.59430347
Skewness	1.51482858	**Kurtosis**	2.48709232
Uncorrected SS	524.84	**Corrected SS**	62.9961682
Coeff Variation	37.1063682	**Std Error Mean**	0.07452676

Basic Statistical Measures			
Location		**Variability**	
Mean	2.077570	**Std Deviation**	0.77091
Median	2.000000	**Variance**	0.59430
Mode	2.000000	**Range**	4.30000
		Interquartile Range	0.40000

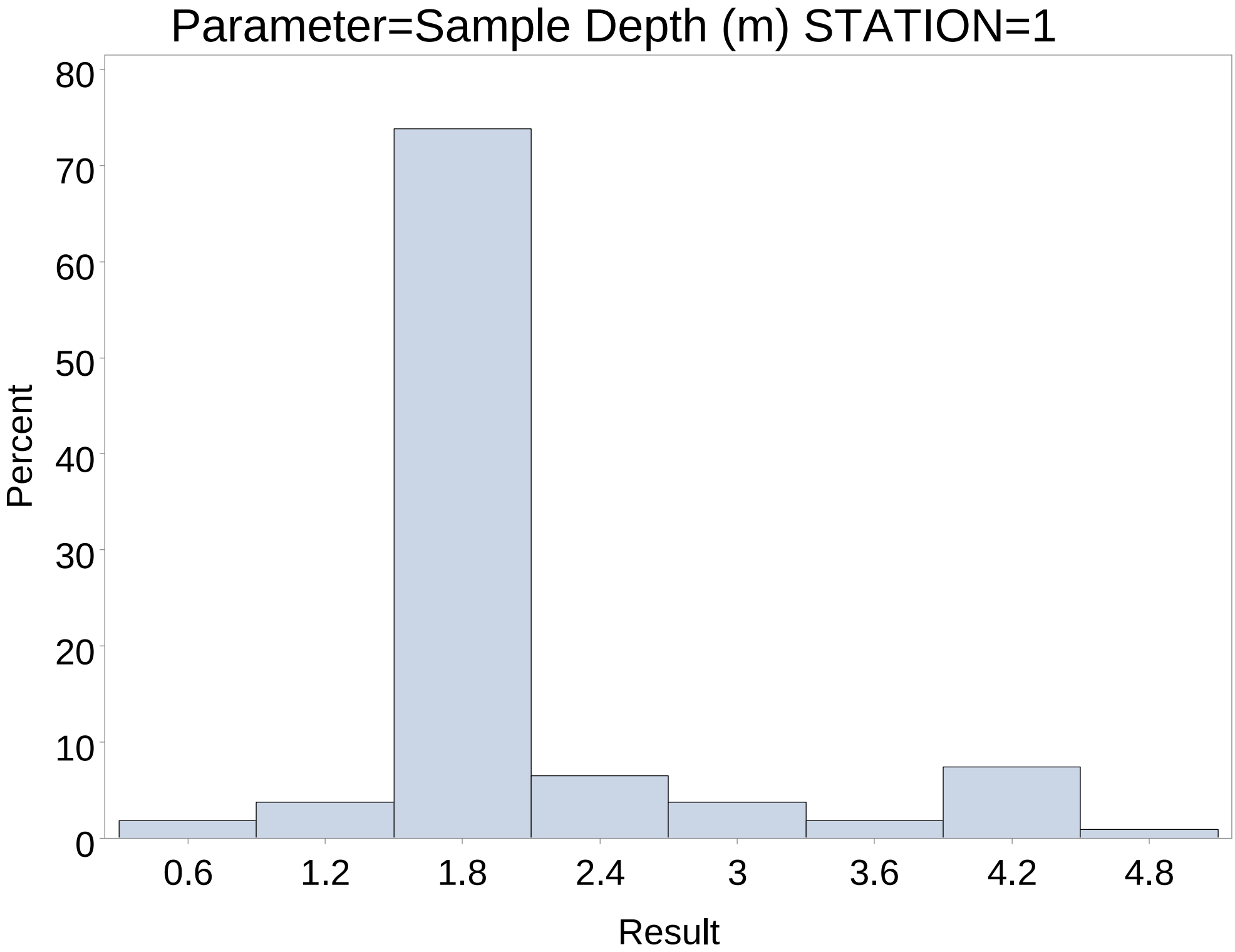
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.87683	**Pr > |t|**	<.0001
Sign	**M**	53.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2889	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.80
99%	4.00
95%	4.00
90%	3.30
75% Q3	2.00
50% Median	2.00
25% Q1	1.60
10%	1.50
5%	1.25
1%	0.50
0% Min	0.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	45840	4.0	45764
0.5	45838	4.0	45765
1.0	45841	4.0	45766
1.0	45839	4.0	45805
1.0	45837	4.8	45750


Parameter=Sample Depth (m) STATION=1
Percent
80
70
60
50
40
30
20
10
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=2

Moments			
N	109	**Sum Weights**	109
Mean	2.21743119	**Sum Observations**	241.7
Std Deviation	0.77083337	**Variance**	0.59418408
Skewness	1.48912336	**Kurtosis**	2.87471063
Uncorrected SS	600.125	**Corrected SS**	64.1718807
Coeff Variation	34.7624481	**Std Error Mean**	0.07383245

Basic Statistical Measures			
Location		**Variability**	
Mean	2.217431	**Std Deviation**	0.77083
Median	2.100000	**Variance**	0.59418
Mode	2.000000	**Range**	4.30000
		Interquartile Range	0.25000

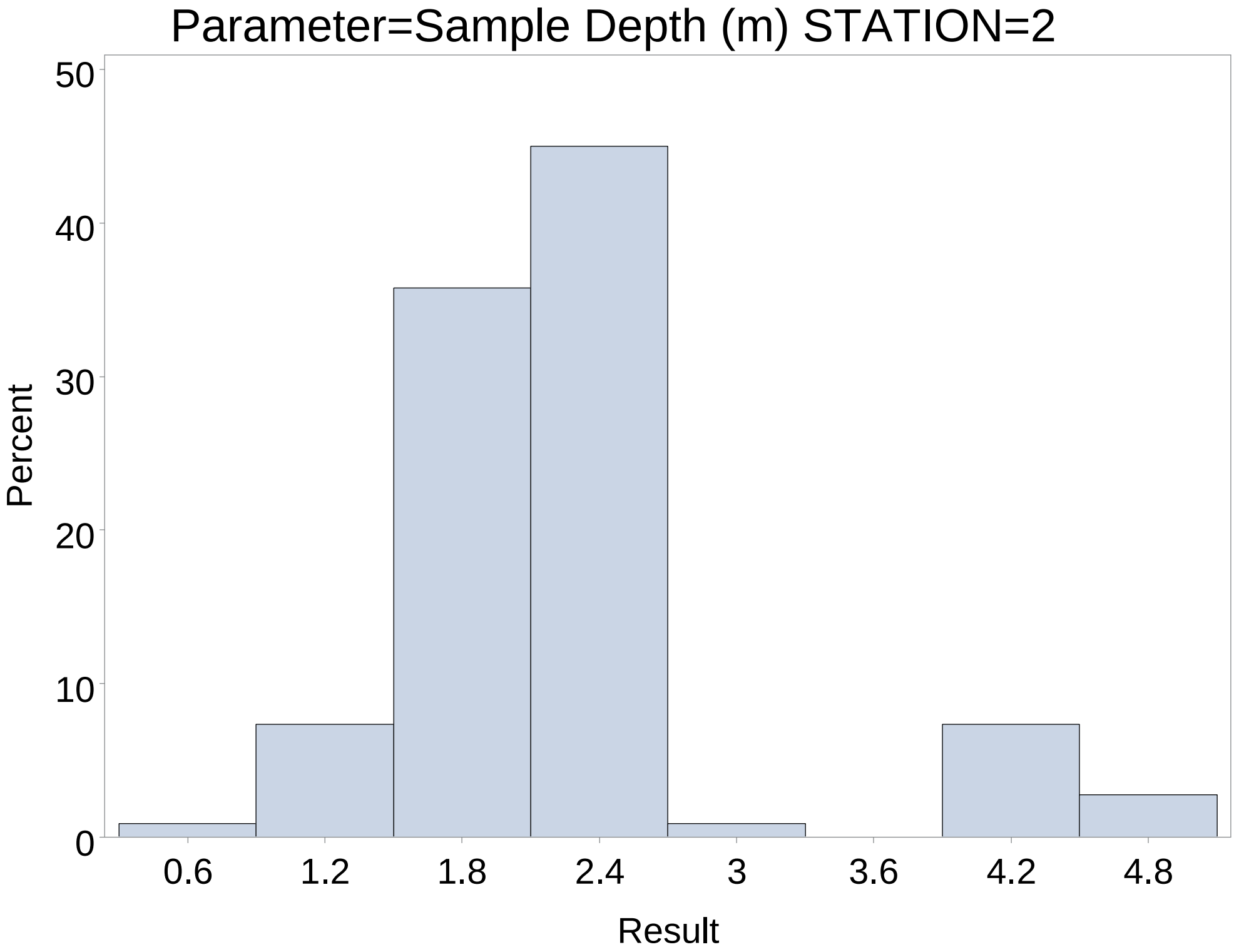
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.03329	**Pr > |t|**	<.0001
Sign	**M**	54.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2997.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.80
99%	4.50
95%	4.10
90%	3.90
75% Q3	2.25
50% Median	2.10
25% Q1	2.00
10%	1.50
5%	1.10
1%	1.00
0% Min	0.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	45947	4.2	45856
1.0	45950	4.2	45857
1.0	45949	4.5	45851
1.0	45948	4.5	45852
1.0	45946	4.8	45849


Parameter=Sample Depth (m) STATION=2
Percent
50
40
30
20
10
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=3

Moments			
N	108	**Sum Weights**	108
Mean	0.72685185	**Sum Observations**	78.5
Std Deviation	0.27669832	**Variance**	0.07656196
Skewness	2.0516656	**Kurtosis**	3.90338071
Uncorrected SS	65.25	**Corrected SS**	8.19212963
Coeff Variation	38.0680488	**Std Error Mean**	0.02662531

Basic Statistical Measures			
Location		**Variability**	
Mean	0.726852	**Std Deviation**	0.27670
Median	0.600000	**Variance**	0.07656
Mode	0.600000	**Range**	1.50000
		Interquartile Range	0.15000

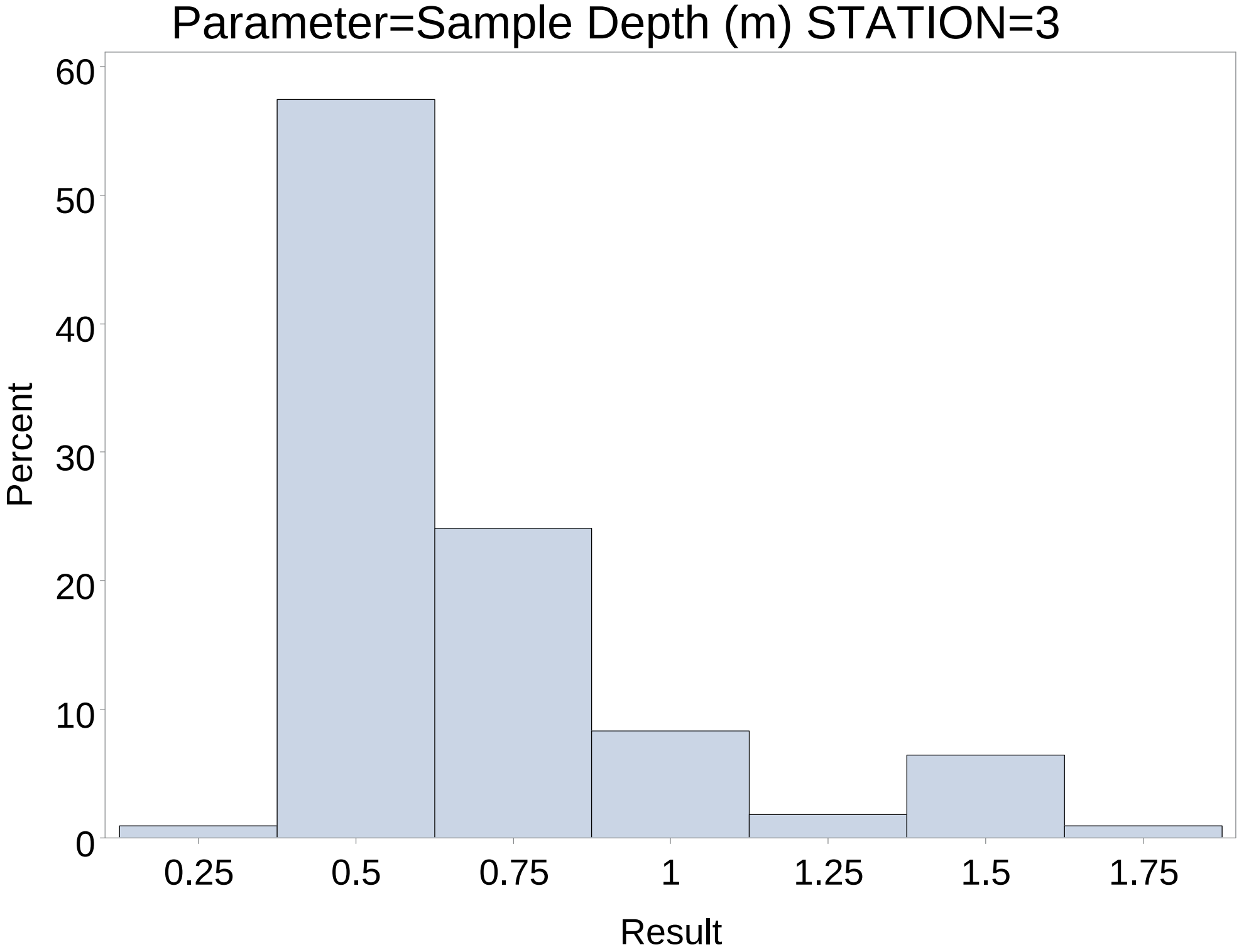
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.29928	**Pr > |t|**	<.0001
Sign	**M**	54	**Pr >= |M|**	<.0001
Signed Rank	**S**	2943	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.80
99%	1.60
95%	1.50
90%	1.10
75% Q3	0.75
50% Median	0.60
25% Q1	0.60
10%	0.50
5%	0.50
1%	0.50
0% Min	0.30

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	46020	1.5	45980
0.5	46056	1.5	45981
0.5	46054	1.5	45982
0.5	46044	1.6	46025
0.5	46040	1.8	45958


Parameter=Sample Depth (m) STATION=3
Percent
60
50
40
30
20
10
0
0.25
0.5
0.75
1
1.25
1.5
1.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=4

Moments			
N	109	**Sum Weights**	109
Mean	1.37844037	**Sum Observations**	150.25
Std Deviation	0.58449753	**Variance**	0.34163736
Skewness	2.47355568	**Kurtosis**	6.76272262
Uncorrected SS	244.0075	**Corrected SS**	36.8968349
Coeff Variation	42.4028157	**Std Error Mean**	0.05598471

Basic Statistical Measures			
Location		**Variability**	
Mean	1.378440	**Std Deviation**	0.58450
Median	1.200000	**Variance**	0.34164
Mode	1.000000	**Range**	3.50000
		Interquartile Range	0.50000

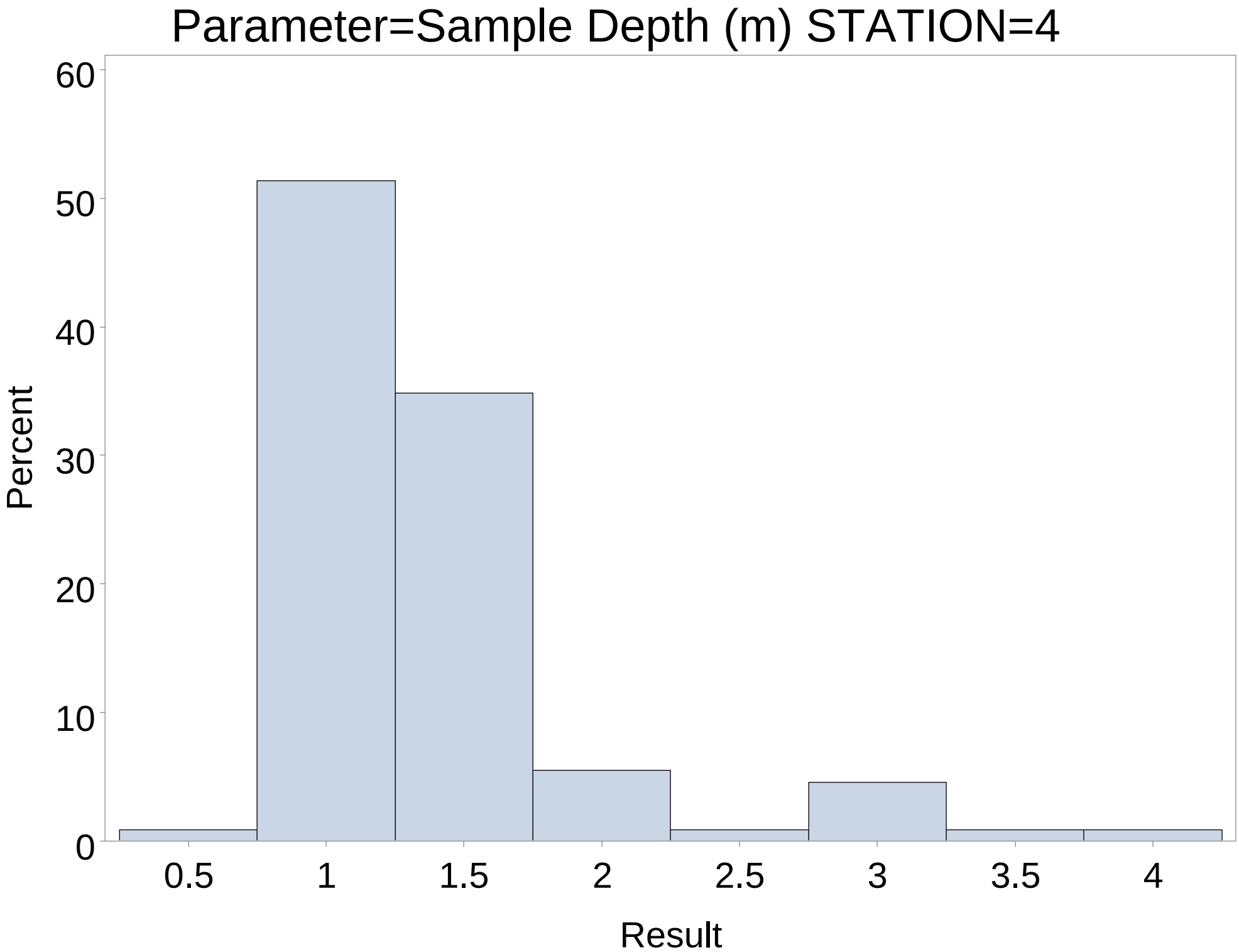
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.62173	**Pr > |t|**	<.0001
Sign	**M**	54.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2997.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.0
99%	3.7
95%	3.0
90%	1.8
75% Q3	1.5
50% Median	1.2
25% Q1	1.0
10%	1.0
5%	0.9
1%	0.9
0% Min	0.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	46164	3.0	46071
0.9	46161	3.0	46072
0.9	46156	3.2	46088
0.9	46138	3.7	46066
0.9	46129	4.0	46068


Parameter=Sample Depth (m) STATION=4
Percent
60
50
40
30
20
10
0
0.5
1
1.5
2
2.5
3
3.5
4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=5

Moments			
N	109	**Sum Weights**	109
Mean	1.0706422	**Sum Observations**	116.7
Std Deviation	0.41288344	**Variance**	0.17047273
Skewness	2.72124096	**Kurtosis**	9.07255097
Uncorrected SS	143.355	**Corrected SS**	18.411055
Coeff Variation	38.5640913	**Std Error Mean**	0.03954706

Basic Statistical Measures			
Location		**Variability**	
Mean	1.070642	**Std Deviation**	0.41288
Median	1.000000	**Variance**	0.17047
Mode	1.000000	**Range**	2.50000
		Interquartile Range	0.20000

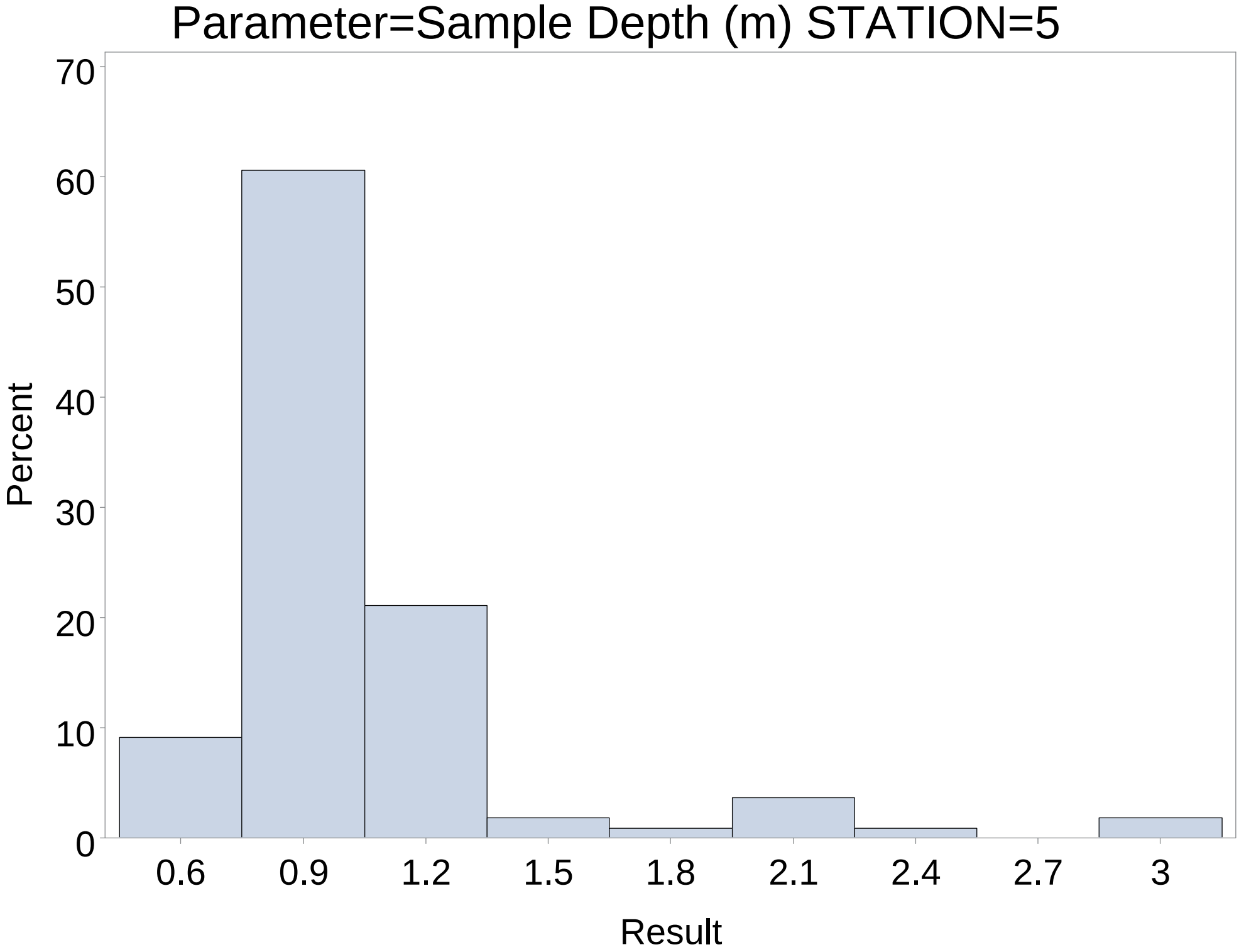
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.07261	**Pr > |t|**	<.0001
Sign	**M**	54.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2997.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.00
99%	3.00
95%	2.20
90%	1.30
75% Q3	1.10
50% Median	1.00
25% Q1	0.90
10%	0.75
5%	0.70
1%	0.50
0% Min	0.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	46273	2.20	46180
0.5	46204	2.20	46197
0.6	46243	2.25	46178
0.6	46215	3.00	46176
0.6	46169	3.00	46177


Parameter=Sample Depth (m) STATION=5
Percent
70
60
50
40
30
20
10
0
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=6

Moments			
N	109	**Sum Weights**	109
Mean	1.08899083	**Sum Observations**	118.7
Std Deviation	0.42759869	**Variance**	0.18284064
Skewness	3.7682708	**Kurtosis**	18.2931206
Uncorrected SS	149.01	**Corrected SS**	19.746789
Coeff Variation	39.2655915	**Std Error Mean**	0.04095653

Basic Statistical Measures			
Location		**Variability**	
Mean	1.088991	**Std Deviation**	0.42760
Median	1.000000	**Variance**	0.18284
Mode	1.000000	**Range**	3.30000
		Interquartile Range	0.10000

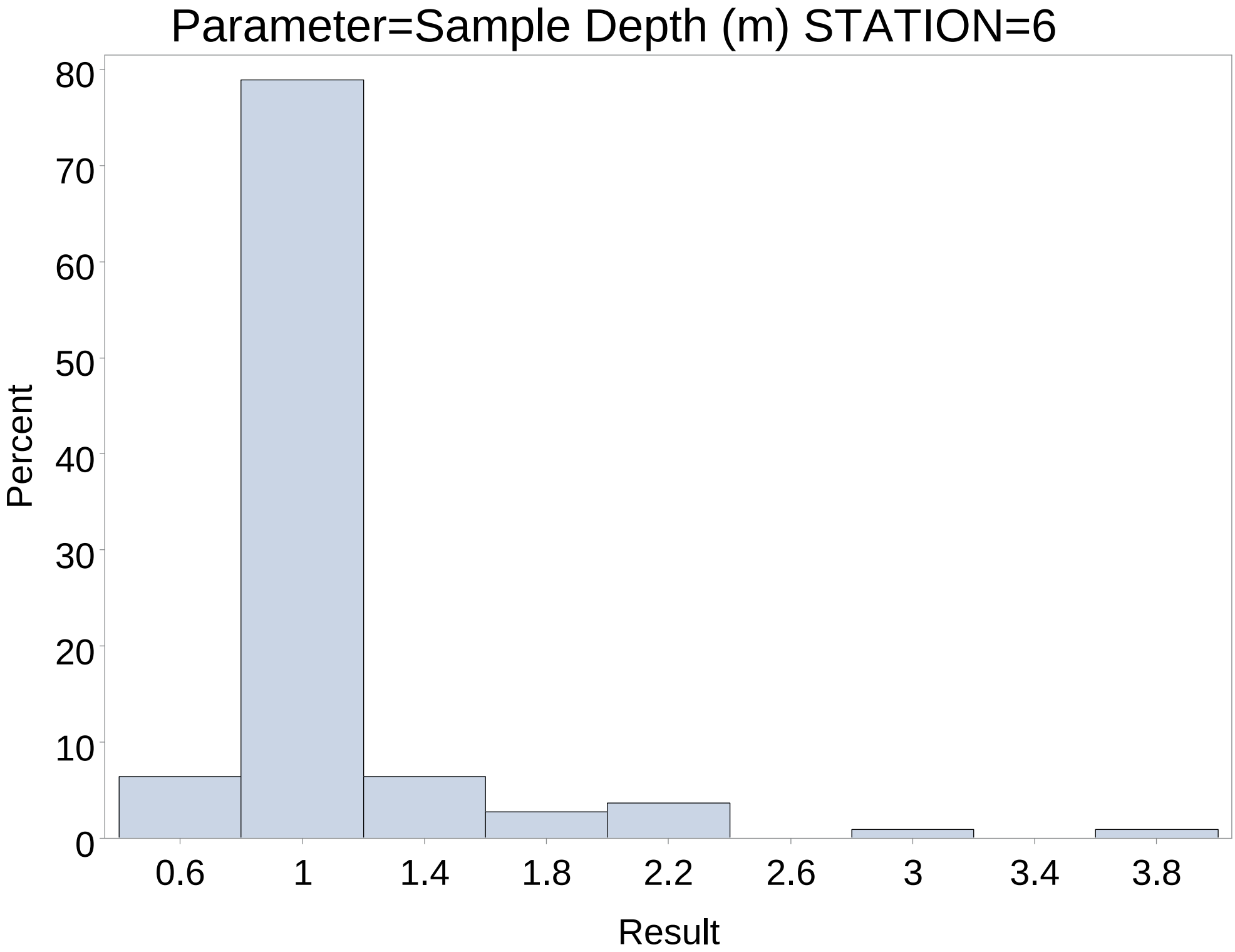
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.58894	**Pr > |t|**	<.0001
Sign	**M**	54.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2997.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.8
99%	3.0
95%	2.0
90%	1.3
75% Q3	1.1
50% Median	1.0
25% Q1	1.0
10%	0.8
5%	0.7
1%	0.6
0% Min	0.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	46382	2.0	46289
0.6	46352	2.0	46306
0.6	46313	2.3	46285
0.6	46310	3.0	46286
0.7	46324	3.8	46284


Parameter=Sample Depth (m) STATION=6
Percent
80
70
60
50
40
30
20
10
0
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=7

Moments			
N	109	**Sum Weights**	109
Mean	1.15275229	**Sum Observations**	125.65
Std Deviation	0.46685685	**Variance**	0.21795532
Skewness	2.30732166	**Kurtosis**	5.51654813
Uncorrected SS	168.3825	**Corrected SS**	23.5391743
Coeff Variation	40.4993208	**Std Error Mean**	0.04471678

Basic Statistical Measures			
Location		**Variability**	
Mean	1.152752	**Std Deviation**	0.46686
Median	1.000000	**Variance**	0.21796
Mode	1.000000	**Range**	2.50000
		Interquartile Range	0.10000

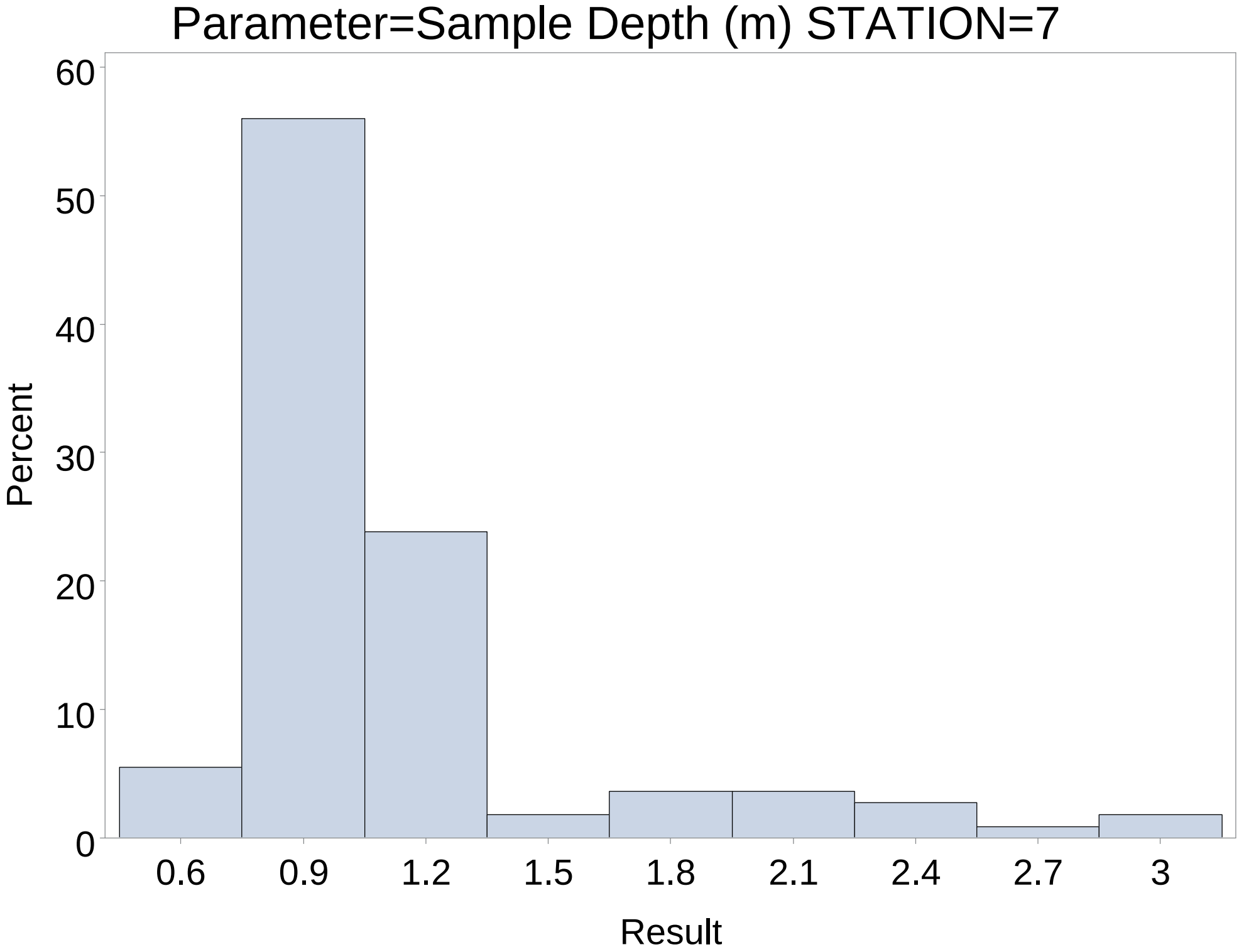
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.77897	**Pr > |t|**	<.0001
Sign	**M**	54.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2997.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.0
99%	3.0
95%	2.4
90%	1.8
75% Q3	1.1
50% Median	1.0
25% Q1	1.0
10%	0.8
5%	0.7
1%	0.5
0% Min	0.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.5	46491	2.5	46396
0.5	46461	2.5	46454
0.5	46422	2.7	46393
0.6	46483	3.0	46394
0.7	46460	3.0	46395


Parameter=Sample Depth (m) STATION=7
Percent
60
50
40
30
20
10
0
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=8

Moments			
N	109	**Sum Weights**	109
Mean	0.76174312	**Sum Observations**	83.03
Std Deviation	0.45976412	**Variance**	0.21138304
Skewness	4.01288303	**Kurtosis**	23.1149392
Uncorrected SS	86.0769	**Corrected SS**	22.8293688
Coeff Variation	60.3568456	**Std Error Mean**	0.04403742

Basic Statistical Measures			
Location		**Variability**	
Mean	0.761743	**Std Deviation**	0.45976
Median	0.600000	**Variance**	0.21138
Mode	0.500000	**Range**	3.80000
		Interquartile Range	0.30000

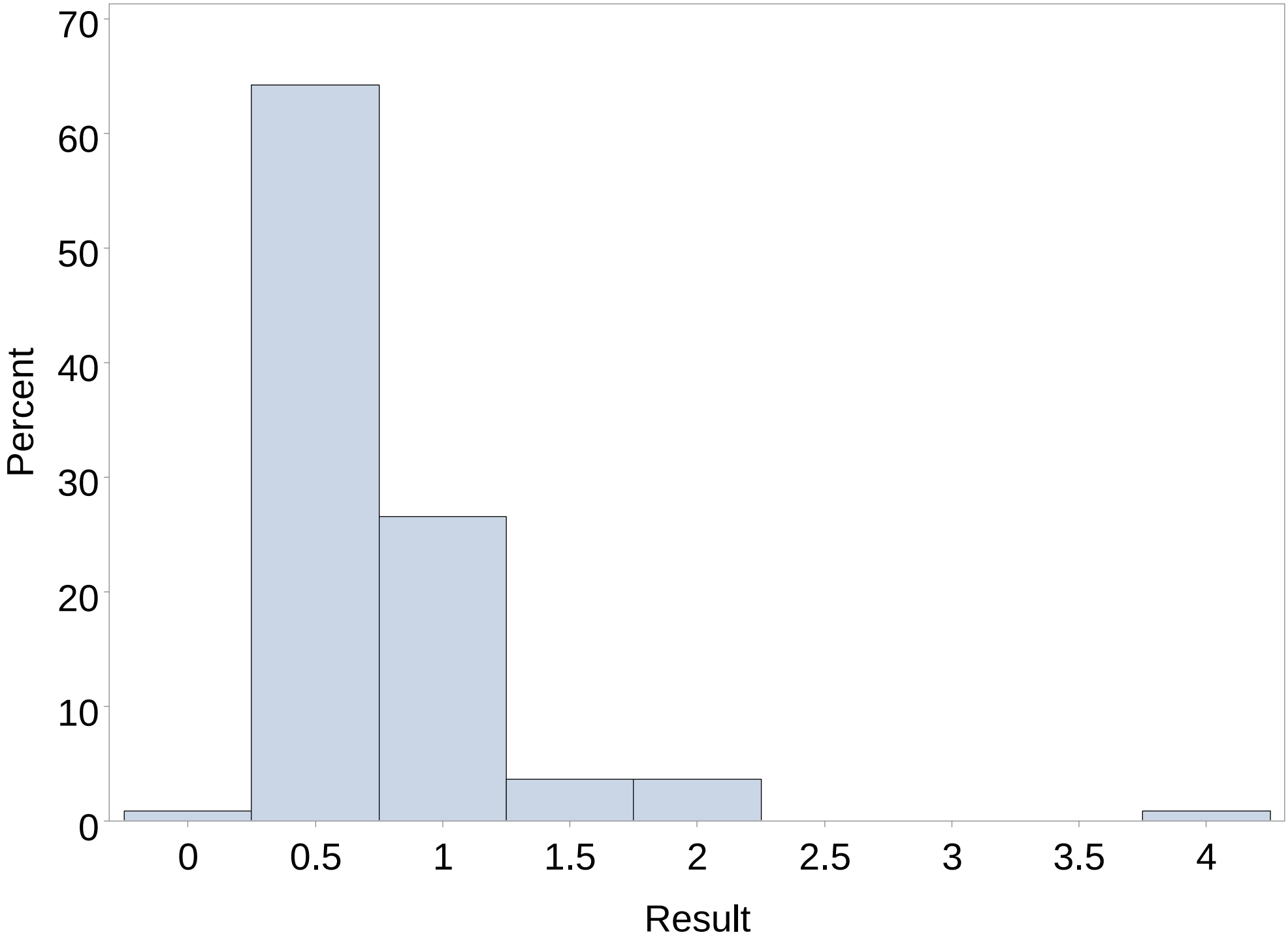
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.29763	**Pr > |t|**	<.0001
Sign	**M**	54.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2997.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.0
99%	2.0
95%	1.6
90%	1.2
75% Q3	0.8
50% Median	0.6
25% Q1	0.5
10%	0.5
5%	0.5
1%	0.3
0% Min	0.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	46522	1.8	46502
0.3	46531	2.0	46503
0.4	46562	2.0	46504
0.4	46551	2.0	46505
0.4	46530	4.0	46510


Parameter=Sample Depth (m) STATION=8
Percent
70
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=9

Moments			
N	109	**Sum Weights**	109
Mean	1.74724771	**Sum Observations**	190.45
Std Deviation	0.70385298	**Variance**	0.49540902
Skewness	1.75594808	**Kurtosis**	3.25316279
Uncorrected SS	386.2675	**Corrected SS**	53.5041743
Coeff Variation	40.2835259	**Std Error Mean**	0.06741689

Basic Statistical Measures			
Location		**Variability**	
Mean	1.747248	**Std Deviation**	0.70385
Median	1.600000	**Variance**	0.49541
Mode	1.500000	**Range**	3.40000
		Interquartile Range	0.70000

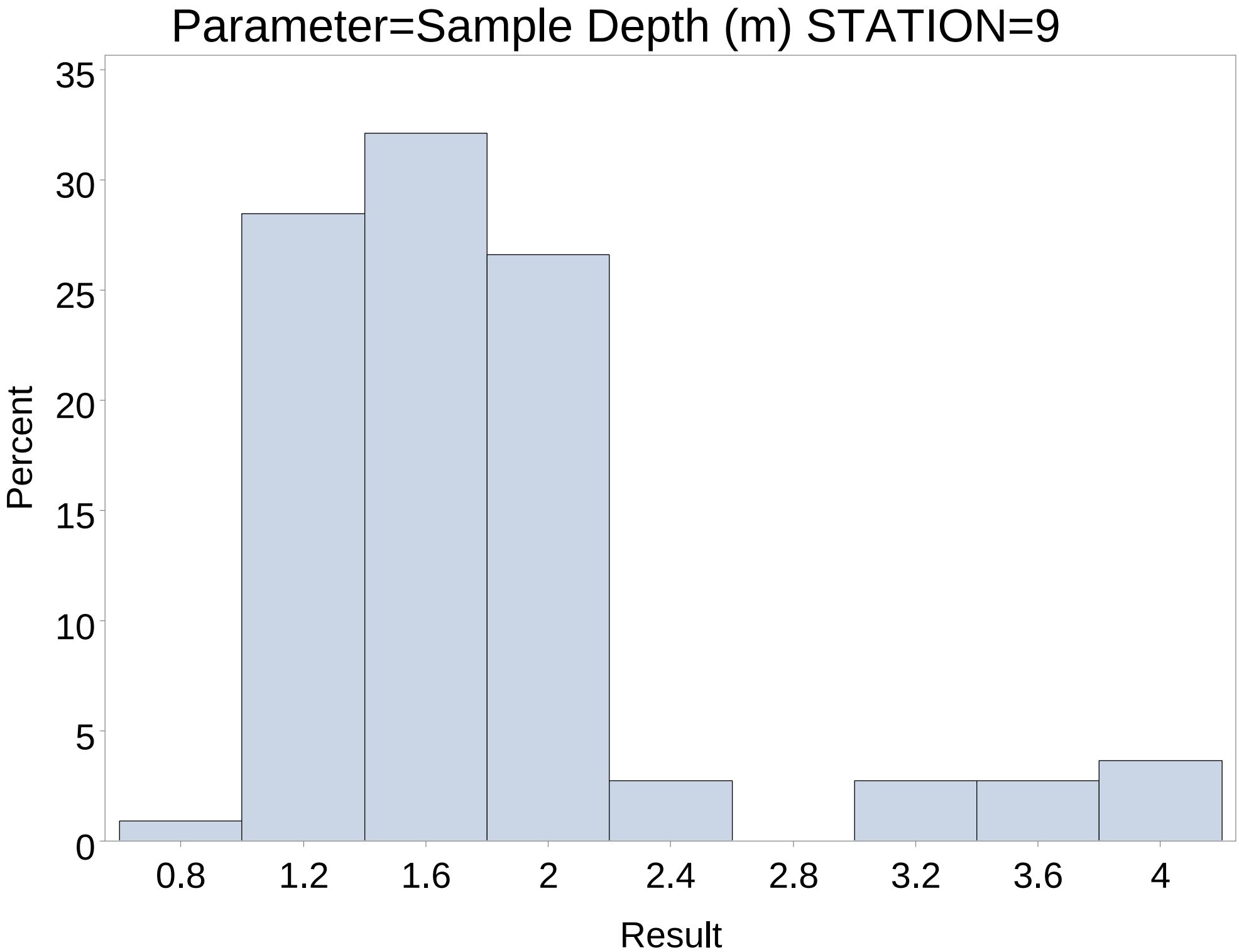
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.91706	**Pr > |t|**	<.0001
Sign	**M**	54.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2997.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.10
99%	4.00
95%	3.50
90%	2.25
75% Q3	2.00
50% Median	1.60
25% Q1	1.30
10%	1.00
5%	1.00
1%	1.00
0% Min	0.70

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Sample Depth (m) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.7	46692	3.7	46676
1.0	46712	4.0	46613
1.0	46711	4.0	46633
1.0	46710	4.0	46713
1.0	46709	4.1	46611


Parameter=Sample Depth (m) STATION=9
Percent
35
30
25
20
15
10
5
0
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=3

Moments			
N	172	**Sum Weights**	172
Mean	2.72	**Sum Observations**	467.84
Std Deviation	1.16206461	**Variance**	1.35039415
Skewness	0.82644148	**Kurtosis**	0.77164219
Uncorrected SS	1503.4422	**Corrected SS**	230.9174
Coeff Variation	42.7229635	**Std Error Mean**	0.0886066

Basic Statistical Measures			
Location		**Variability**	
Mean	2.720000	**Std Deviation**	1.16206
Median	2.390000	**Variance**	1.35039
Mode	1.400000	**Range**	6.59000
		Interquartile Range	1.78500

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

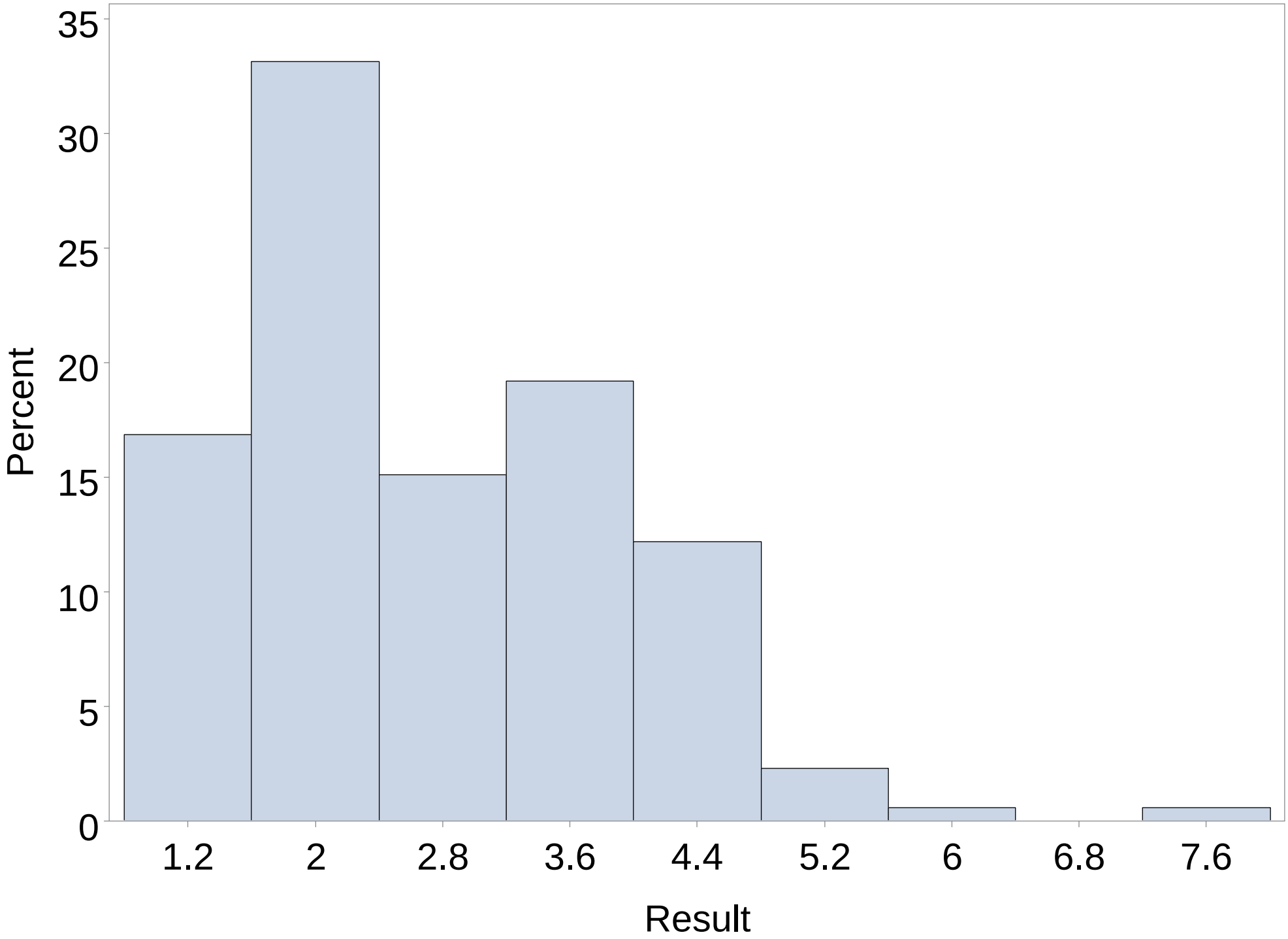
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.69749	**Pr > |t|**	<.0001
Sign	**M**	86	**Pr >= |M|**	<.0001
Signed Rank	**S**	7439	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.590
99%	6.110
95%	4.700
90%	4.240
75% Q3	3.545
50% Median	2.390
25% Q1	1.760
10%	1.400
5%	1.300
1%	1.030
0% Min	1.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	46831	5.09	46731
1.03	46836	5.12	46813
1.08	46780	5.38	46758
1.10	46843	6.11	46770
1.16	46833	7.59	46755


Parameter=Extinction Coeefficient (m-1) STATION=3
Percent
35
30
25
20
15
10
5
0
1.2
2
2.8
3.6
4.4
5.2
6
6.8
7.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=4

Moments			
N	173	**Sum Weights**	173
Mean	2.57780347	**Sum Observations**	445.96
Std Deviation	1.04966873	**Variance**	1.10180445
Skewness	1.24843549	**Kurtosis**	2.53758394
Uncorrected SS	1339.1076	**Corrected SS**	189.510365
Coeff Variation	40.7195019	**Std Error Mean**	0.07980484

Basic Statistical Measures			
Location		**Variability**	
Mean	2.577803	**Std Deviation**	1.04967
Median	2.380000	**Variance**	1.10180
Mode	1.400000	**Range**	6.29000
		Interquartile Range	1.41000

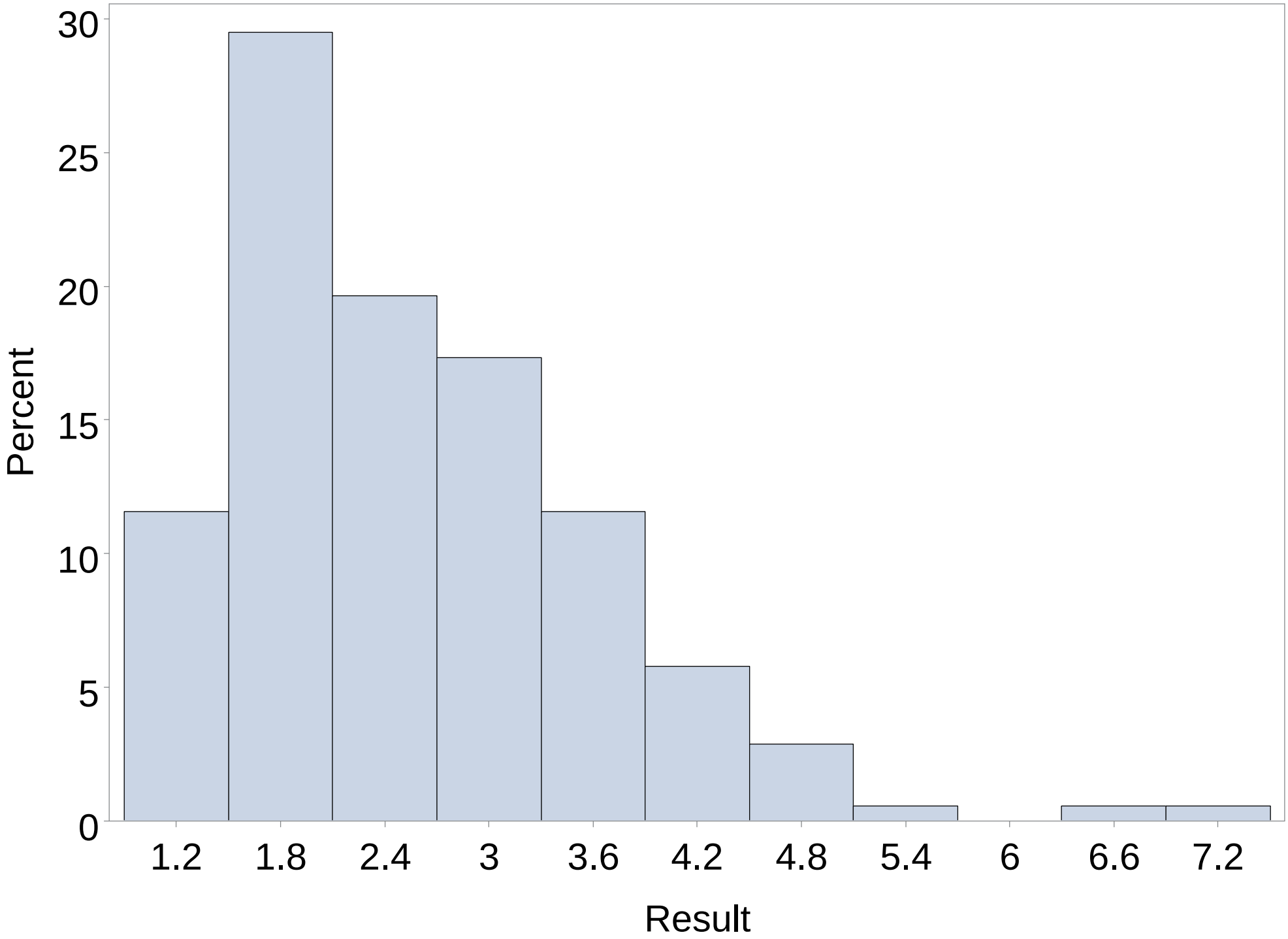
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.30134	**Pr > |t|**	<.0001
Sign	**M**	86.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7525.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.39
99%	6.52
95%	4.26
90%	3.92
75% Q3	3.21
50% Median	2.38
25% Q1	1.80
10%	1.40
5%	1.33
1%	1.10
0% Min	1.10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.10	47016	5.01	46891
1.10	46925	5.04	46930
1.19	46952	5.21	46999
1.20	47019	6.52	46968
1.22	46994	7.39	46927


Parameter=Extinction Coeefficient (m-1) STATION=4
Percent
30
25
20
15
10
5
0
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
6.6
7.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=5

Moments			
N	172	**Sum Weights**	172
Mean	2.5497093	**Sum Observations**	438.55
Std Deviation	0.97135911	**Variance**	0.94353851
Skewness	1.00802204	**Kurtosis**	1.24520538
Uncorrected SS	1279.5201	**Corrected SS**	161.345085
Coeff Variation	38.0968569	**Std Error Mean**	0.07406544

Basic Statistical Measures			
Location		**Variability**	
Mean	2.549709	**Std Deviation**	0.97136
Median	2.370000	**Variance**	0.94354
Mode	1.900000	**Range**	5.58000
		Interquartile Range	1.22000

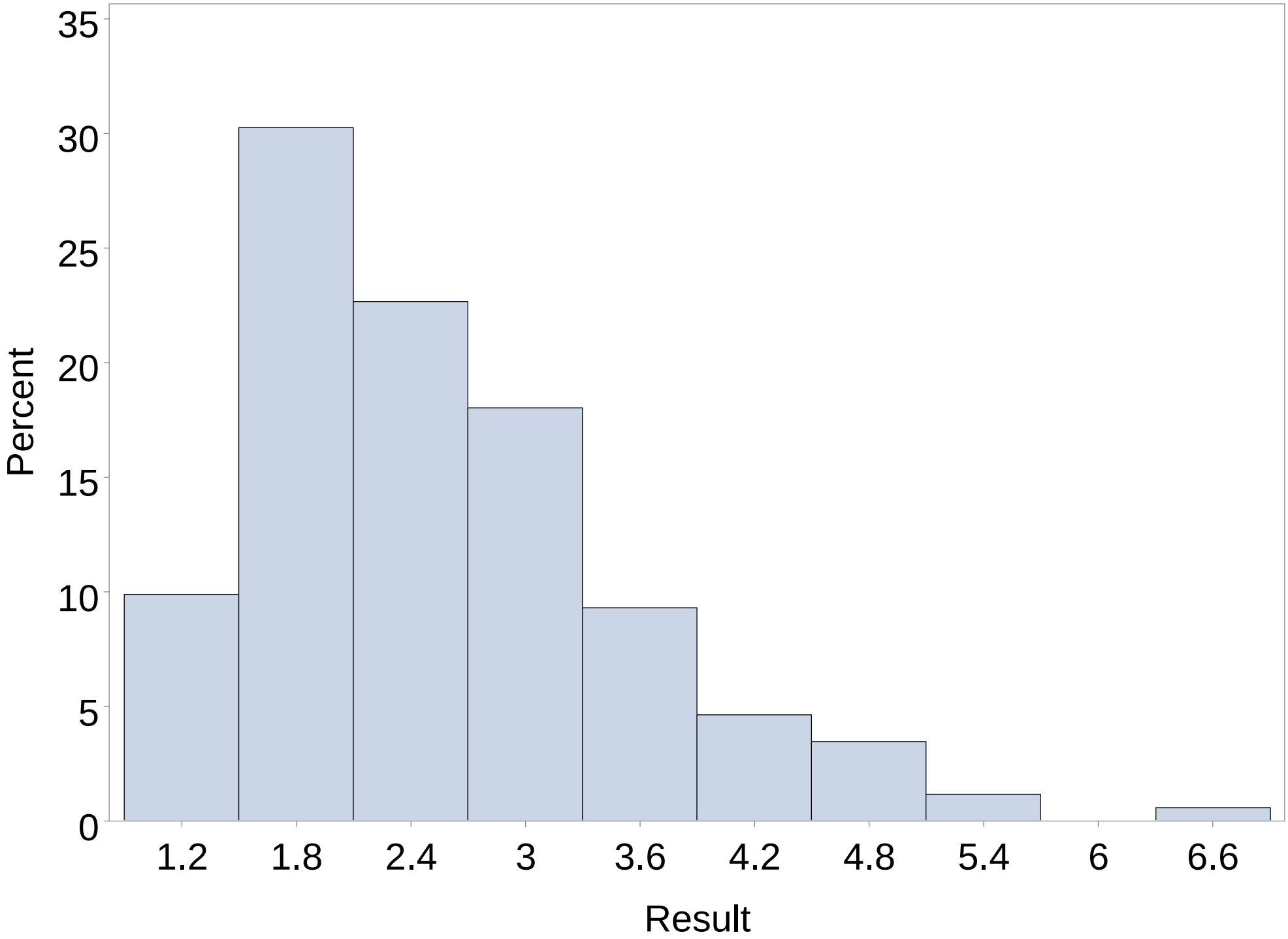
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.42509	**Pr > |t|**	<.0001
Sign	**M**	86	**Pr >= |M|**	<.0001
Signed Rank	**S**	7439	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.570
99%	5.240
95%	4.580
90%	3.830
75% Q3	3.095
50% Median	2.370
25% Q1	1.875
10%	1.500
5%	1.300
1%	1.100
0% Min	0.990

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.99	47125	4.72	47078
1.10	47192	5.00	47159
1.10	47189	5.21	47103
1.14	47226	5.24	47076
1.20	47205	6.57	47100


Parameter=Extinction Coeefficient (m-1) STATION=5
Percent
35
30
25
20
15
10
5
0
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
6.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=6

Moments			
N	171	**Sum Weights**	171
Mean	2.62783626	**Sum Observations**	449.36
Std Deviation	0.99353173	**Variance**	0.98710529
Skewness	0.98504389	**Kurtosis**	1.51690389
Uncorrected SS	1348.6524	**Corrected SS**	167.807899
Coeff Variation	37.8079769	**Std Error Mean**	0.07597727

Basic Statistical Measures			
Location		**Variability**	
Mean	2.627836	**Std Deviation**	0.99353
Median	2.400000	**Variance**	0.98711
Mode	2.300000	**Range**	6.05000
		Interquartile Range	1.38000

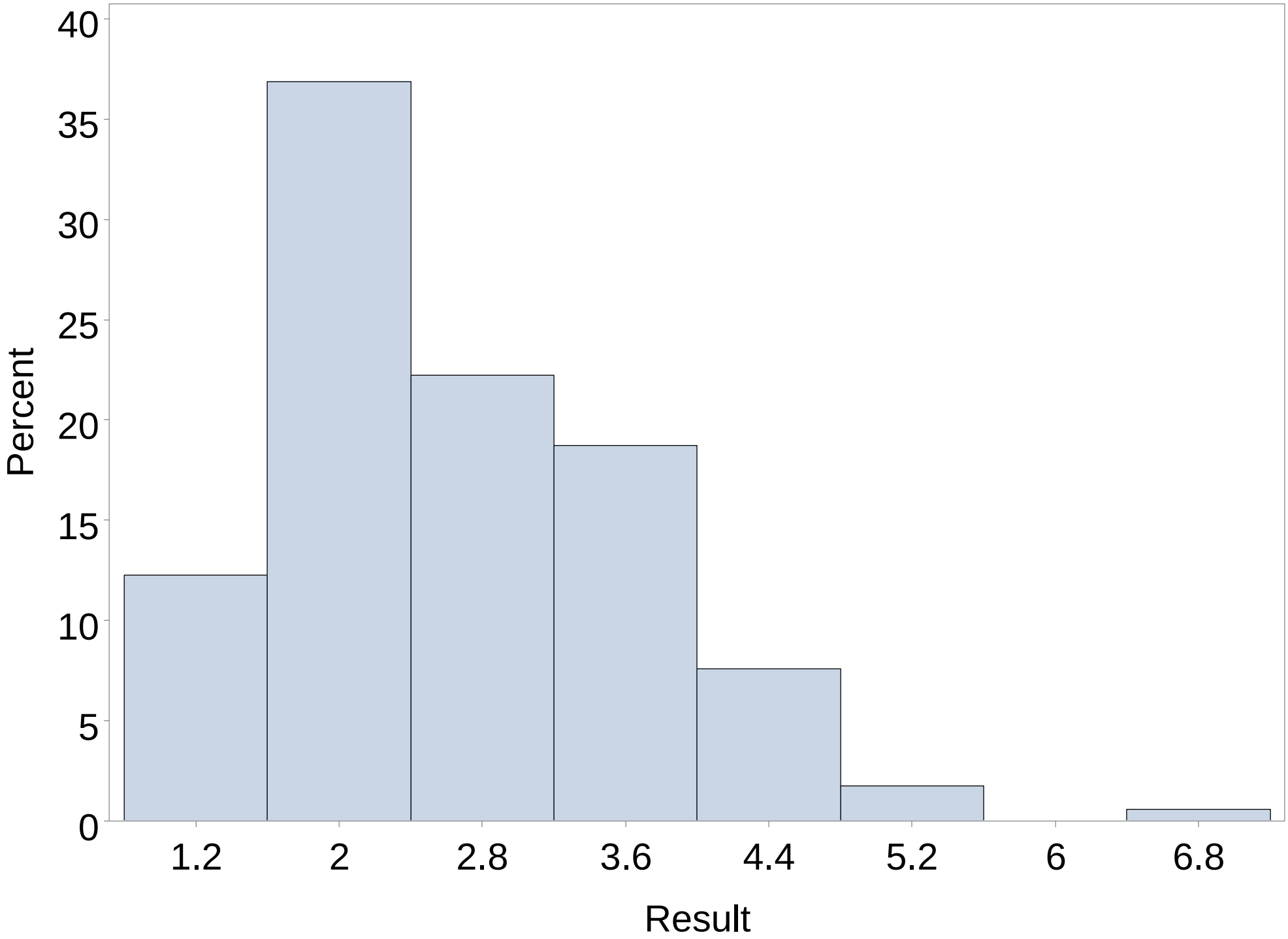
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	34.58714	**Pr > |t|**	<.0001
Sign	**M**	85.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7353	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.05
99%	5.18
95%	4.40
90%	3.99
75% Q3	3.29
50% Median	2.40
25% Q1	1.91
10%	1.50
5%	1.30
1%	1.00
0% Min	1.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	47366	4.73	47281
1.00	47365	5.06	47248
1.10	47297	5.17	47275
1.20	47383	5.18	47250
1.22	47349	7.05	47272


Parameter=Extinction Coeefficient (m-1) STATION=6
Percent
40
35
30
25
20
15
10
5
0
1.2
2
2.8
3.6
4.4
5.2
6
6.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=7

Moments			
N	170	**Sum Weights**	170
Mean	2.78076471	**Sum Observations**	472.73
Std Deviation	1.03345116	**Variance**	1.06802131
Skewness	0.86348582	**Kurtosis**	1.75888712
Uncorrected SS	1495.0465	**Corrected SS**	180.495601
Coeff Variation	37.1642793	**Std Error Mean**	0.07926209

Basic Statistical Measures			
Location		**Variability**	
Mean	2.780765	**Std Deviation**	1.03345
Median	2.695000	**Variance**	1.06802
Mode	3.300000	**Range**	6.42000
		Interquartile Range	1.48000

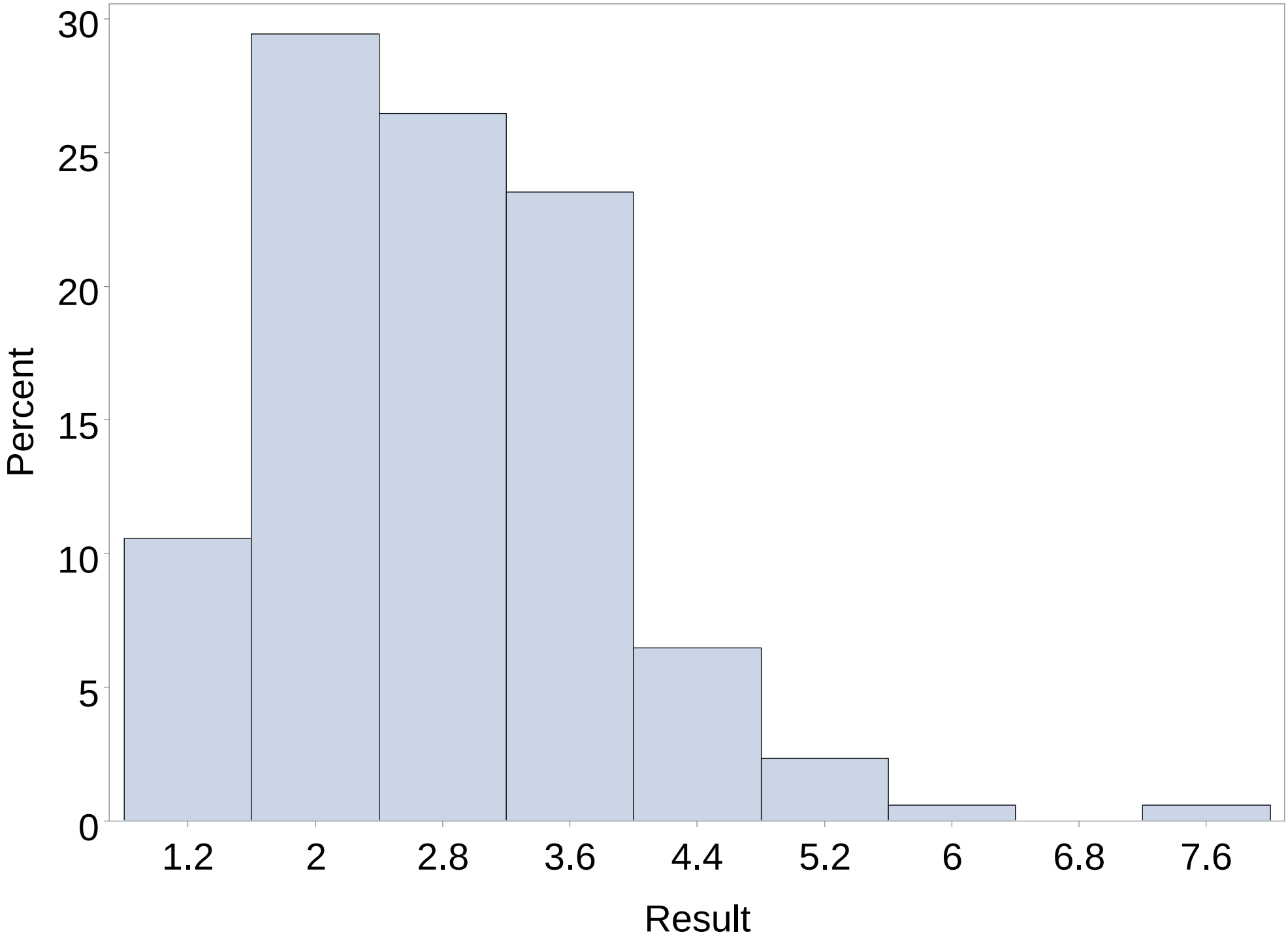
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.08316	**Pr > |t|**	<.0001
Sign	**M**	85	**Pr >= |M|**	<.0001
Signed Rank	**S**	7267.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.520
99%	5.660
95%	4.330
90%	4.010
75% Q3	3.480
50% Median	2.695
25% Q1	2.000
10%	1.540
5%	1.300
1%	1.140
0% Min	1.100

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.10	47535	5.15	47446
1.14	47468	5.17	47419
1.20	47552	5.30	47501
1.20	47532	5.66	47483
1.21	47519	7.52	47443


Parameter=Extinction Coeefficient (m-1) STATION=7
Percent
30
25
20
15
10
5
0
1.2
2
2.8
3.6
4.4
5.2
6
6.8
7.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=8

Moments			
N	169	**Sum Weights**	169
Mean	3.01704142	**Sum Observations**	509.88
Std Deviation	1.20329142	**Variance**	1.44791024
Skewness	0.54250489	**Kurtosis**	-0.023756
Uncorrected SS	1781.578	**Corrected SS**	243.248921
Coeff Variation	39.8831588	**Std Error Mean**	0.09256088

Basic Statistical Measures			
Location		**Variability**	
Mean	3.017041	**Std Deviation**	1.20329
Median	2.880000	**Variance**	1.44791
Mode	1.300000	**Range**	6.07000
		Interquartile Range	1.82000

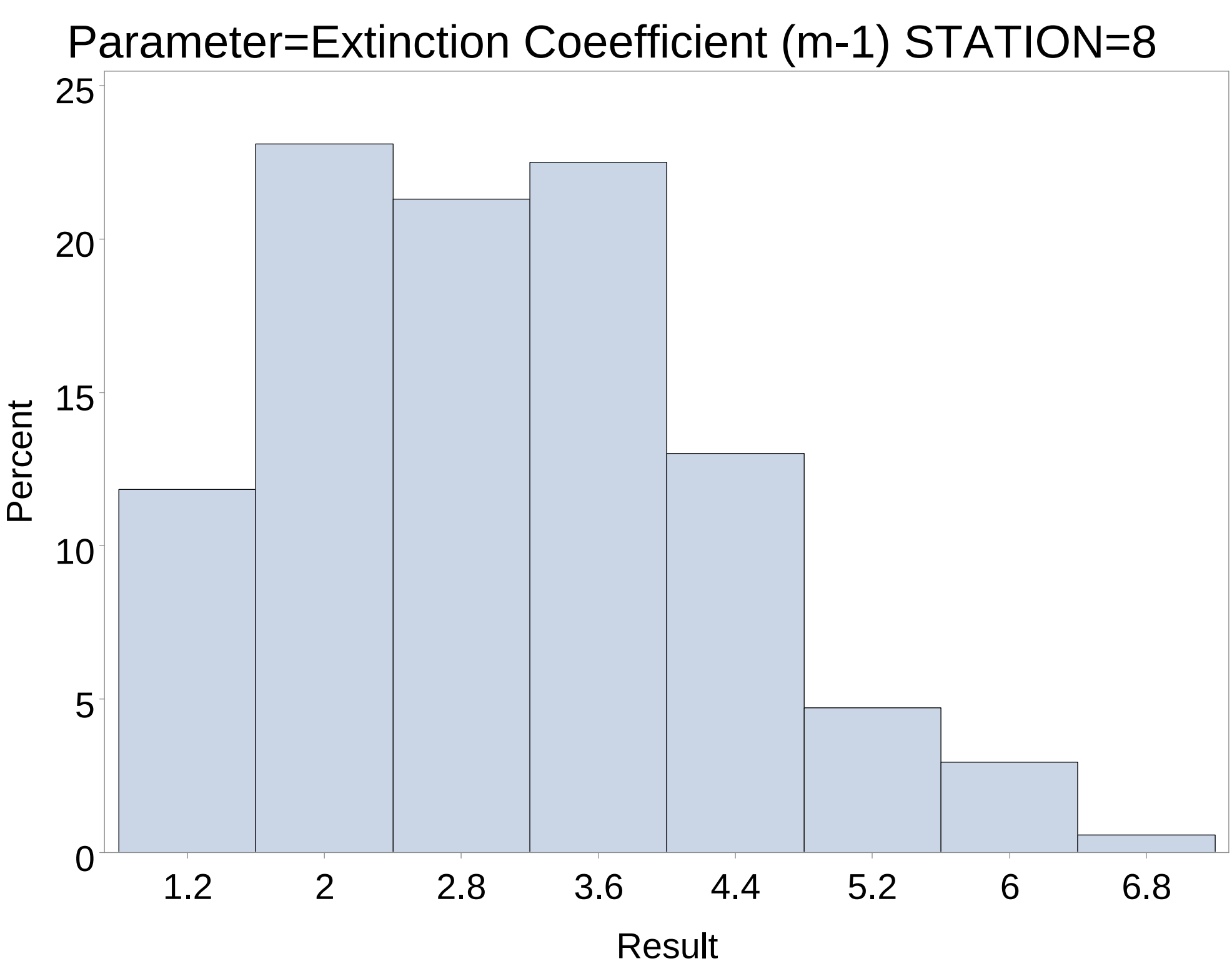
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.59521	**Pr > |t|**	<.0001
Sign	**M**	84.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7182.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.07
99%	5.96
95%	5.07
90%	4.61
75% Q3	3.89
50% Median	2.88
25% Q1	2.07
10%	1.49
5%	1.30
1%	1.00
0% Min	1.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.00	47703	5.65	47616
1.00	47702	5.90	47597
1.00	47699	5.96	47671
1.18	47637	5.96	47672
1.18	47586	7.07	47613


Parameter=Extinction Coeefficient (m-1) STATION=8
25
20
15
10
5
0
Percent
1.2
2
2.8
3.6
4.4
5.2
6
6.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=9

Moments			
N	170	**Sum Weights**	170
Mean	2.85617647	**Sum Observations**	485.55
Std Deviation	1.28854722	**Variance**	1.66035393
Skewness	1.72437928	**Kurtosis**	8.19076895
Uncorrected SS	1667.4163	**Corrected SS**	280.599815
Coeff Variation	45.1144119	**Std Error Mean**	0.09882706

Basic Statistical Measures			
Location		**Variability**	
Mean	2.856176	**Std Deviation**	1.28855
Median	2.680000	**Variance**	1.66035
Mode	2.000000	**Range**	10.30000
		Interquartile Range	1.56000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

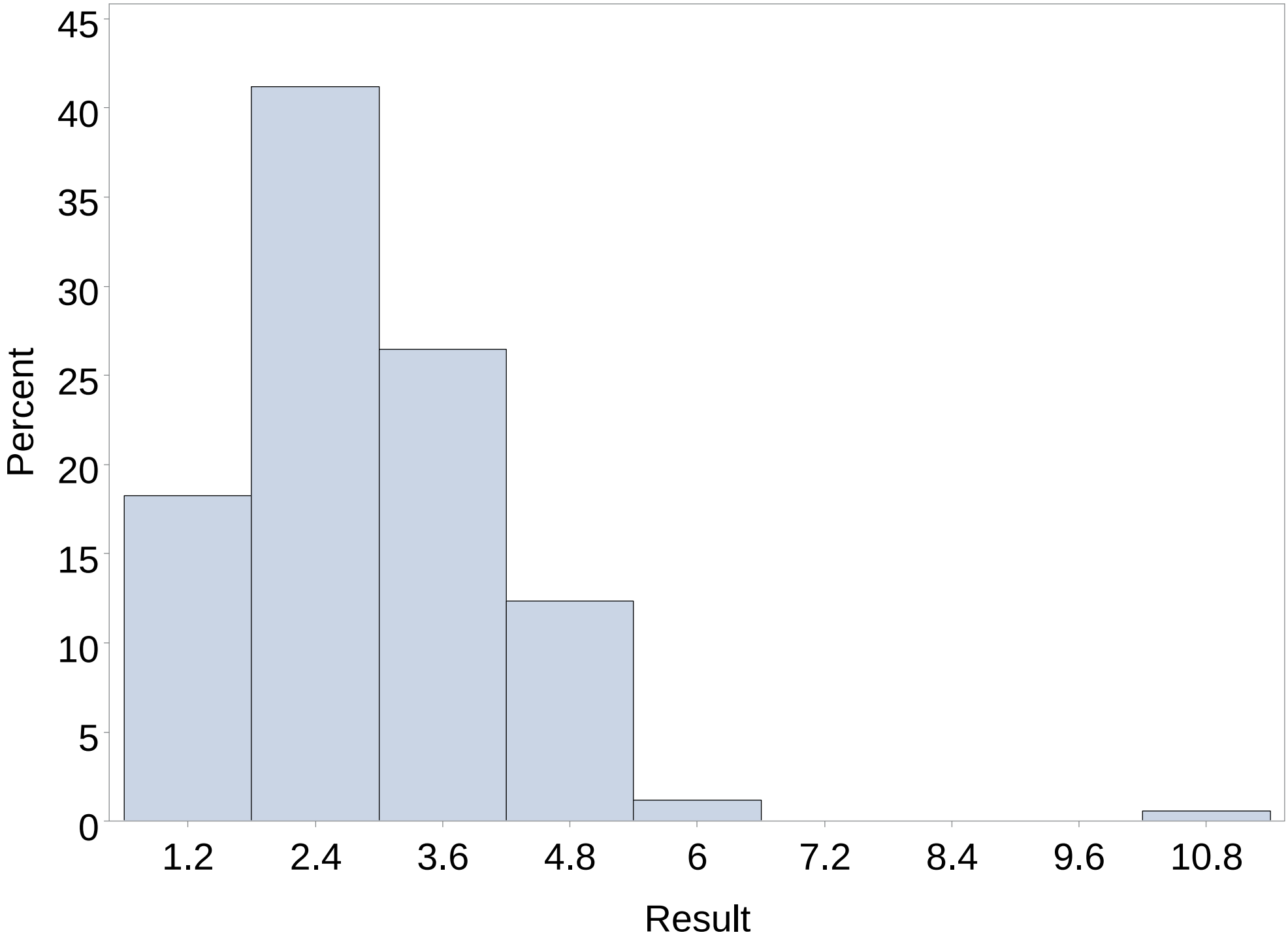
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.90075	**Pr > |t|**	<.0001
Sign	**M**	85	**Pr >= |M|**	<.0001
Signed Rank	**S**	7267.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.000
99%	5.830
95%	4.850
90%	4.445
75% Q3	3.540
50% Median	2.680
25% Q1	1.980
10%	1.455
5%	1.220
1%	0.800
0% Min	0.700

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Extinction Coeefficient (m-1) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.70	47891	5.36	47782
0.80	47870	5.36	47822
0.90	47875	5.73	47785
0.92	47858	5.83	47795
1.00	47873	11.00	47817


Parameter=Extinction Coeefficient (m-1) STATION=9
Percent
45
40
35
30
25
20
15
10
5
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=1

Moments			
N	325	**Sum Weights**	325
Mean	0.27546154	**Sum Observations**	89.525
Std Deviation	0.23181002	**Variance**	0.05373589
Skewness	3.18207174	**Kurtosis**	15.130394
Uncorrected SS	42.071121	**Corrected SS**	17.4104268
Coeff Variation	84.1533162	**Std Error Mean**	0.01285851

Basic Statistical Measures			
Location		**Variability**	
Mean	0.275462	**Std Deviation**	0.23181
Median	0.228000	**Variance**	0.05374
Mode	0.100000	**Range**	1.73200
		Interquartile Range	0.21200

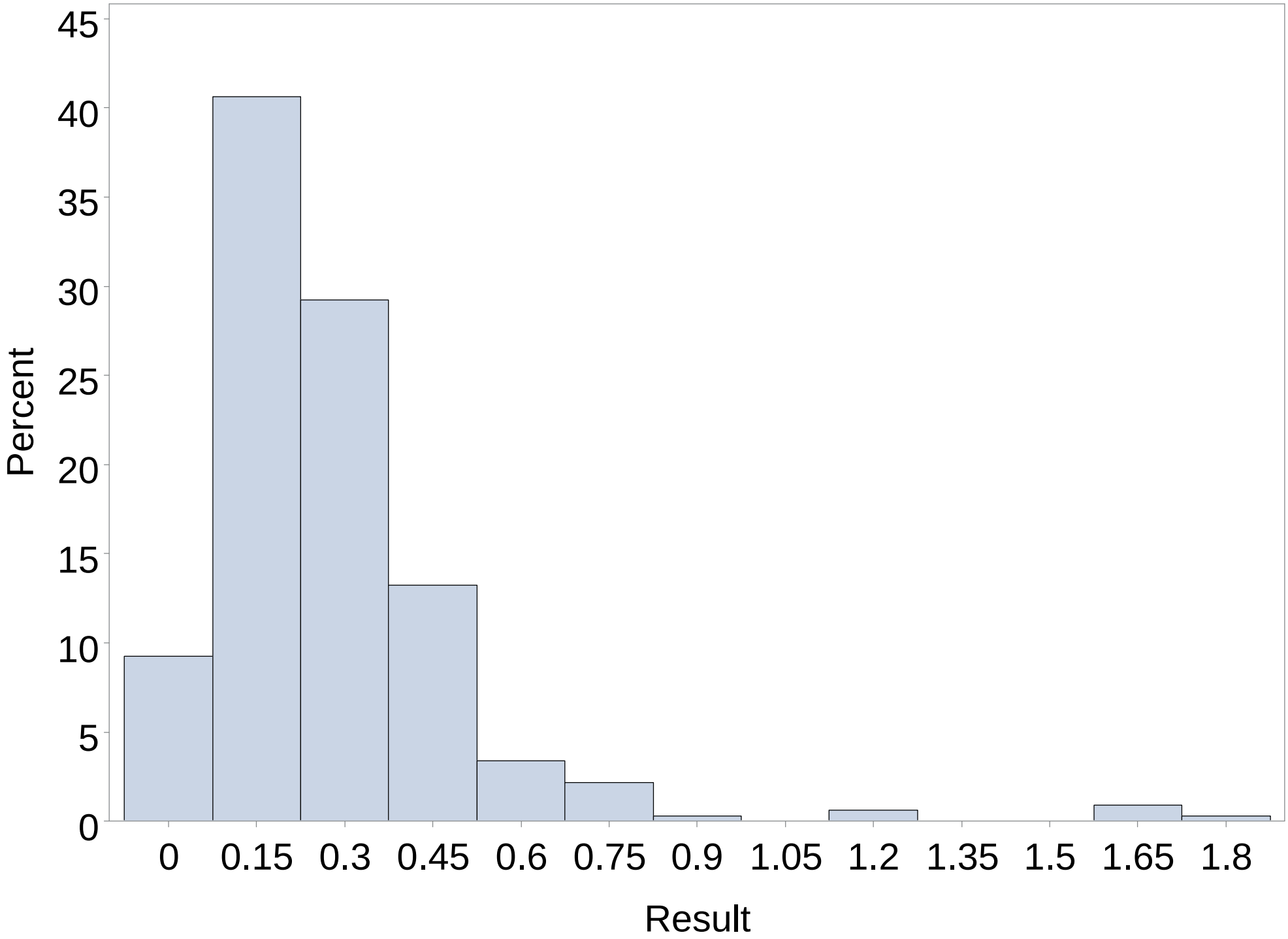
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.42251	**Pr > |t|**	<.0001
Sign	**M**	160.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26484.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.730
99%	1.600
95%	0.620
90%	0.462
75% Q3	0.347
50% Median	0.228
25% Q1	0.135
10%	0.088
5%	0.050
1%	0.010
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	48034	1.164	47927
-0.002	48032	1.600	48131
0.004	48228	1.640	48097
0.010	48023	1.652	47925
0.013	47928	1.730	48035


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=1
Percent
45
40
35
30
25
20
15
10
5
0
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
1.5
1.65
1.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=2

Moments			
N	325	**Sum Weights**	325
Mean	0.13386462	**Sum Observations**	43.506
Std Deviation	0.1294696	**Variance**	0.01676238
Skewness	3.09936316	**Kurtosis**	19.4398882
Uncorrected SS	11.254924	**Corrected SS**	5.43101004
Coeff Variation	96.7168188	**Std Error Mean**	0.00718168

Basic Statistical Measures			
Location		**Variability**	
Mean	0.133865	**Std Deviation**	0.12947
Median	0.110000	**Variance**	0.01676
Mode	0.100000	**Range**	1.24200
		Interquartile Range	0.14800

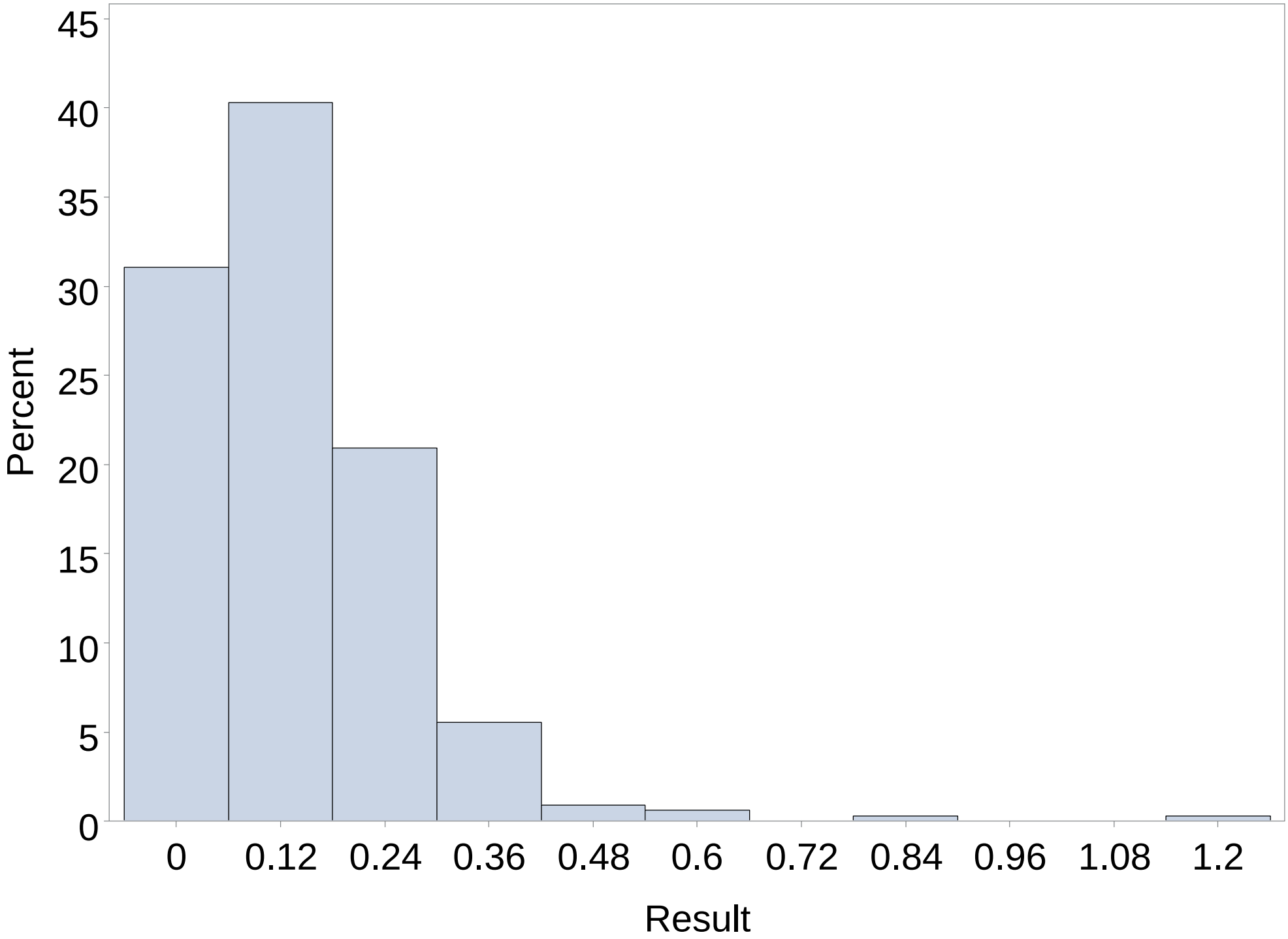
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.63973	**Pr > |t|**	<.0001
Sign	**M**	160.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26470.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.240
99%	0.564
95%	0.320
90%	0.259
75% Q3	0.188
50% Median	0.110
25% Q1	0.040
10%	0.010
5%	0.003
1%	0.001
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	48357	0.535	48250
-0.002	48356	0.564	48237
0.001	48310	0.654	48273
0.001	48251	0.867	48248
0.002	48349	1.240	48306


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=2
Percent
45
40
35
30
25
20
15
10
5
0
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=3

Moments			
N	325	**Sum Weights**	325
Mean	0.10691692	**Sum Observations**	34.748
Std Deviation	0.0997281	**Variance**	0.00994569
Skewness	1.61313757	**Kurtosis**	4.0887644
Uncorrected SS	6.937554	**Corrected SS**	3.22240476
Coeff Variation	93.2762522	**Std Error Mean**	0.00553192

Basic Statistical Measures			
Location		**Variability**	
Mean	0.106917	**Std Deviation**	0.09973
Median	0.100000	**Variance**	0.00995
Mode	0.100000	**Range**	0.61000
		Interquartile Range	0.13200

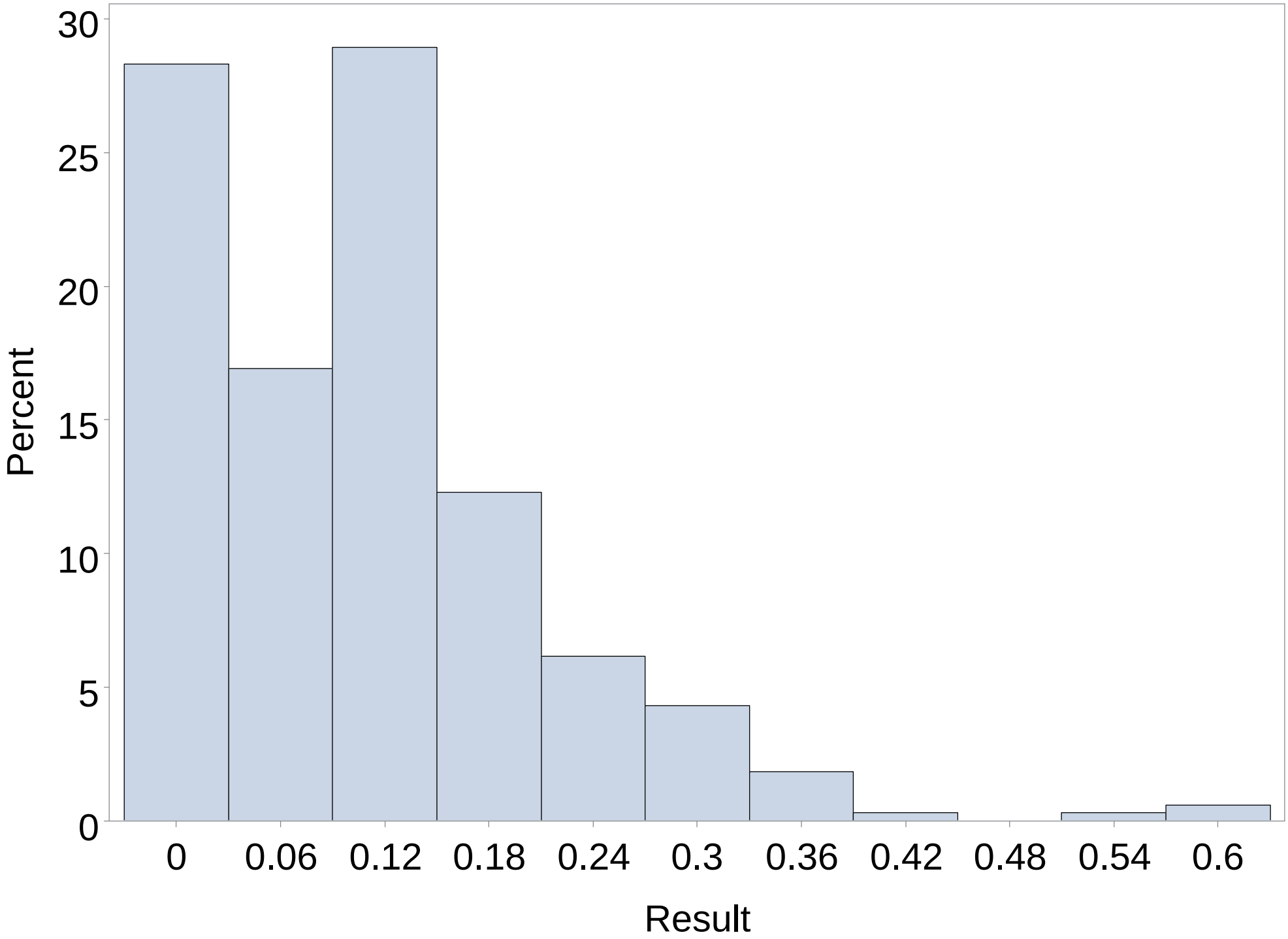
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.32727	**Pr > |t|**	<.0001
Sign	**M**	161.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26472.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.608
99%	0.427
95%	0.301
90%	0.247
75% Q3	0.150
50% Median	0.100
25% Q1	0.018
10%	0.005
5%	0.002
1%	0.001
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	48681	0.389	48740
0.001	48657	0.427	48875
0.001	48635	0.530	48697
0.001	48622	0.600	48779
0.001	48590	0.608	48562


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=3
Percent
30
25
20
15
10
5
0
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=4

Moments			
N	325	**Sum Weights**	325
Mean	0.10940923	**Sum Observations**	35.558
Std Deviation	0.11360795	**Variance**	0.01290677
Skewness	3.75177263	**Kurtosis**	31.0455134
Uncorrected SS	8.072166	**Corrected SS**	4.18179257
Coeff Variation	103.837632	**Std Error Mean**	0.00630184

Basic Statistical Measures			
Location		**Variability**	
Mean	0.109409	**Std Deviation**	0.11361
Median	0.100000	**Variance**	0.01291
Mode	0.100000	**Range**	1.25200
		Interquartile Range	0.13100

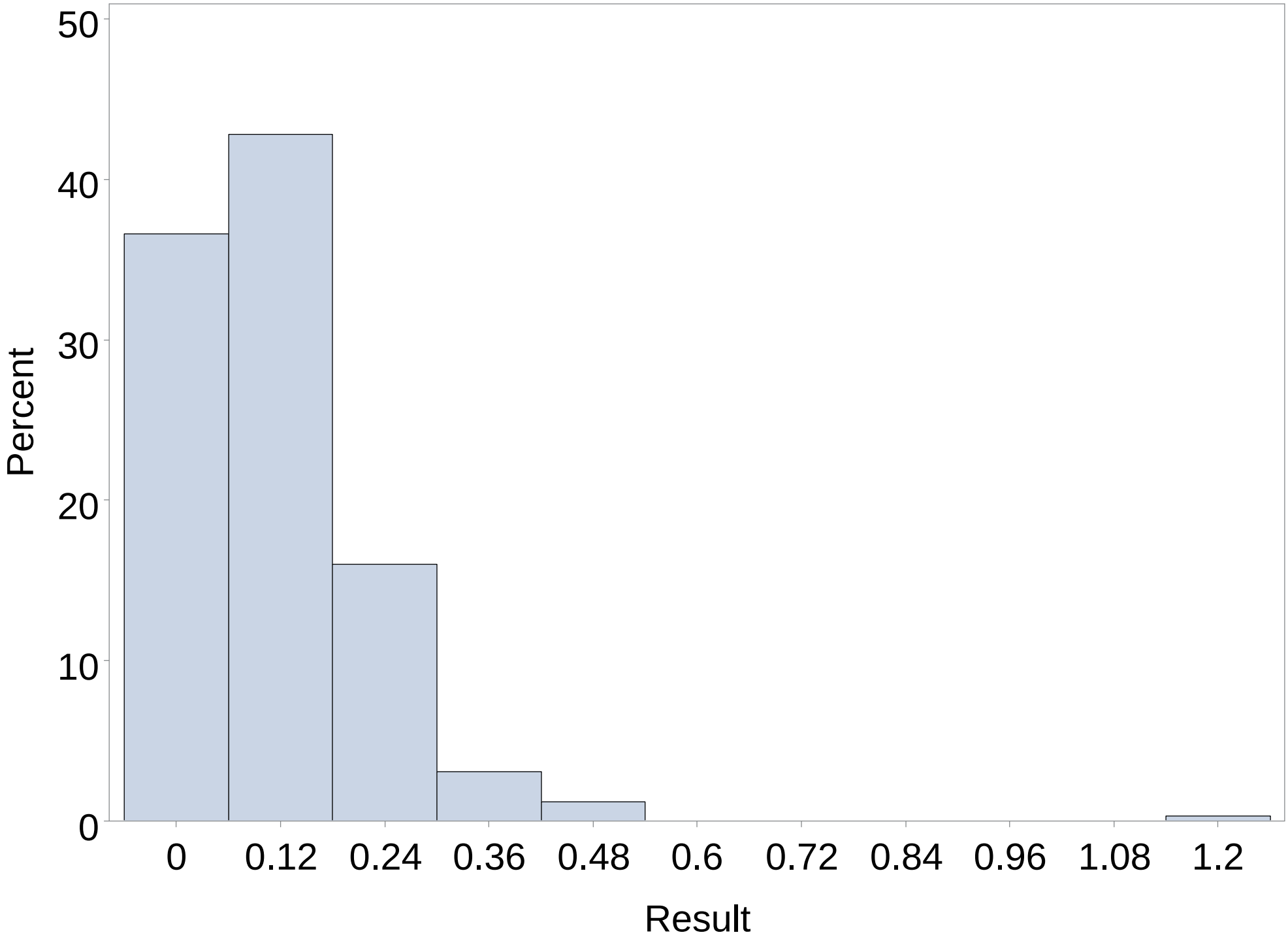
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.36149	**Pr > |t|**	<.0001
Sign	**M**	159.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26441	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.250
99%	0.444
95%	0.295
90%	0.238
75% Q3	0.150
50% Median	0.100
25% Q1	0.019
10%	0.005
5%	0.002
1%	0.001
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	49009	0.430	49105
-0.002	49007	0.444	49200
-0.002	49006	0.450	49022
0.001	48960	0.510	49104
0.001	48959	1.250	49069


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=4
Percent
50
40
30
20
10
0
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=5

Moments			
N	325	**Sum Weights**	325
Mean	0.09287077	**Sum Observations**	30.183
Std Deviation	0.08664837	**Variance**	0.00750794
Skewness	1.71300399	**Kurtosis**	5.7361279
Uncorrected SS	5.235691	**Corrected SS**	2.43257257
Coeff Variation	93.299938	**Std Error Mean**	0.00480639

Basic Statistical Measures			
Location		**Variability**	
Mean	0.092871	**Std Deviation**	0.08665
Median	0.087000	**Variance**	0.00751
Mode	0.100000	**Range**	0.65300
		Interquartile Range	0.11200

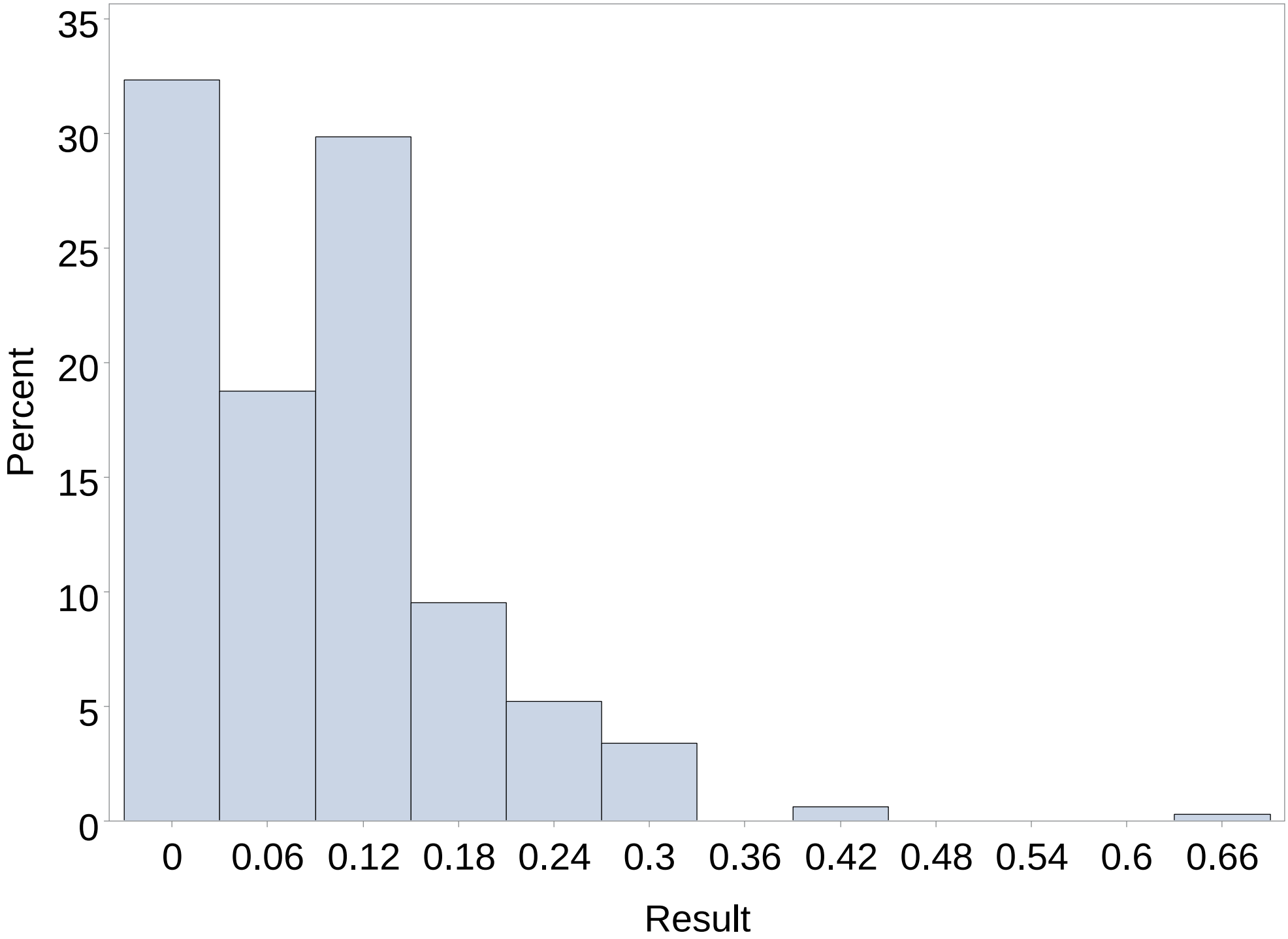
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.32237	**Pr > |t|**	<.0001
Sign	**M**	159.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26433.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.651
99%	0.313
95%	0.260
90%	0.204
75% Q3	0.130
50% Median	0.087
25% Q1	0.018
10%	0.005
5%	0.002
1%	0.001
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	49334	0.313	49366
-0.002	49332	0.313	49367
-0.002	49331	0.410	49347
0.001	49285	0.440	49429
0.001	49284	0.651	49354


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=5
Percent
35
30
25
20
15
10
5
0
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
0.66
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=6

Moments			
N	325	**Sum Weights**	325
Mean	0.09547692	**Sum Observations**	31.03
Std Deviation	0.07991216	**Variance**	0.00638595
Skewness	0.98607328	**Kurtosis**	0.65907335
Uncorrected SS	5.031698	**Corrected SS**	2.06904908
Coeff Variation	83.6978836	**Std Error Mean**	0.00443273

Basic Statistical Measures			
Location		**Variability**	
Mean	0.095477	**Std Deviation**	0.07991
Median	0.090000	**Variance**	0.00639
Mode	0.100000	**Range**	0.35200
		Interquartile Range	0.11100

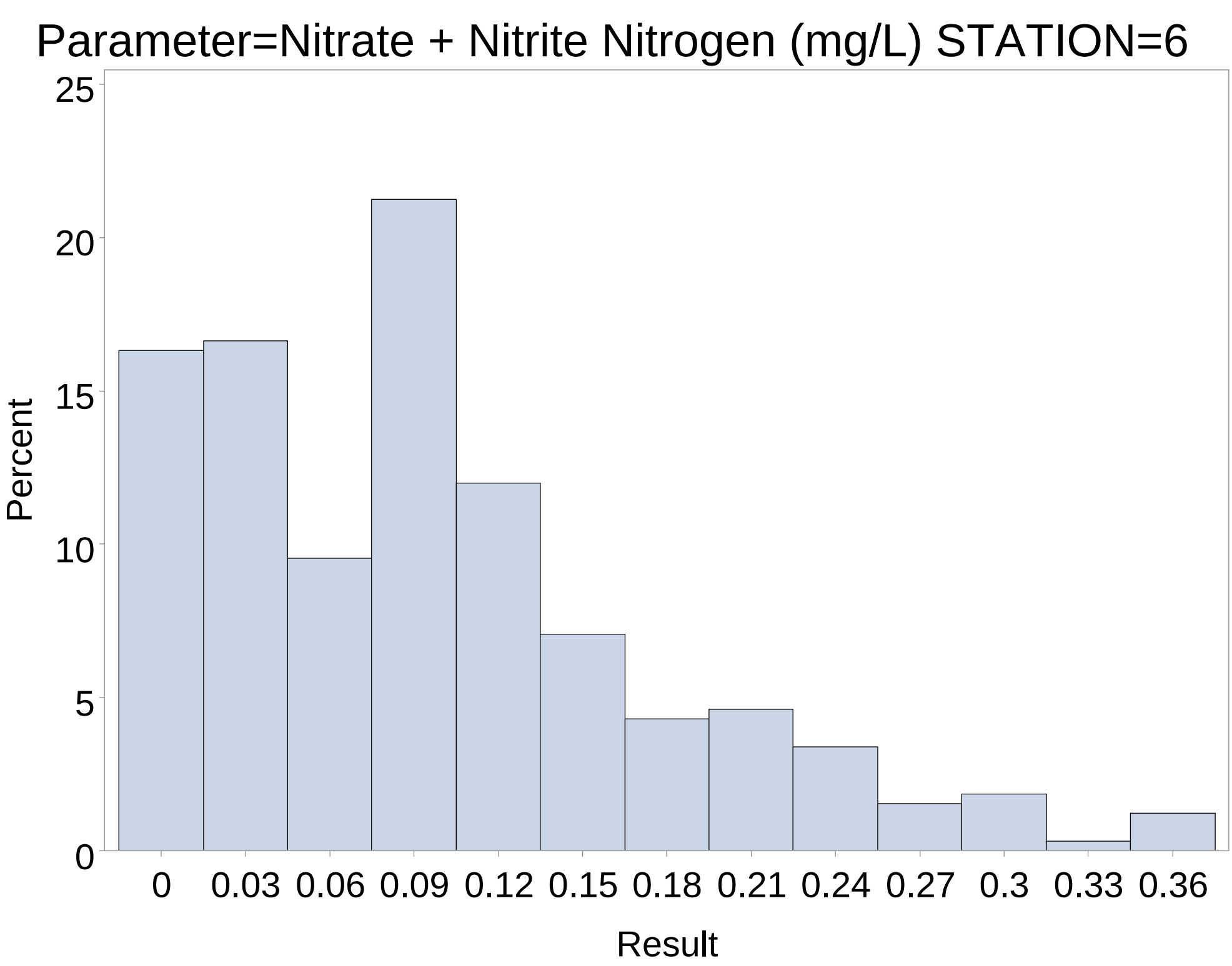
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.53908	**Pr > |t|**	<.0001
Sign	**M**	159.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26447	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.350
99%	0.346
95%	0.251
90%	0.210
75% Q3	0.131
50% Median	0.090
25% Q1	0.020
10%	0.007
5%	0.002
1%	0.001
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	49659	0.320	49767
-0.002	49656	0.346	49703
-0.002	49655	0.349	49691
0.001	49610	0.349	49692
0.001	49607	0.350	49672


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=6
25
20
15
10
5
0
Percent
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
0.33
0.36
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=7

Moments			
N	325	**Sum Weights**	325
Mean	0.11938462	**Sum Observations**	38.8
Std Deviation	0.09998958	**Variance**	0.00999792
Skewness	1.33335262	**Kurtosis**	2.61822598
Uncorrected SS	7.871448	**Corrected SS**	3.23932492
Coeff Variation	83.7541598	**Std Error Mean**	0.00554642

Basic Statistical Measures			
Location		**Variability**	
Mean	0.119385	**Std Deviation**	0.09999
Median	0.100000	**Variance**	0.01000
Mode	0.100000	**Range**	0.64000
		Interquartile Range	0.11400

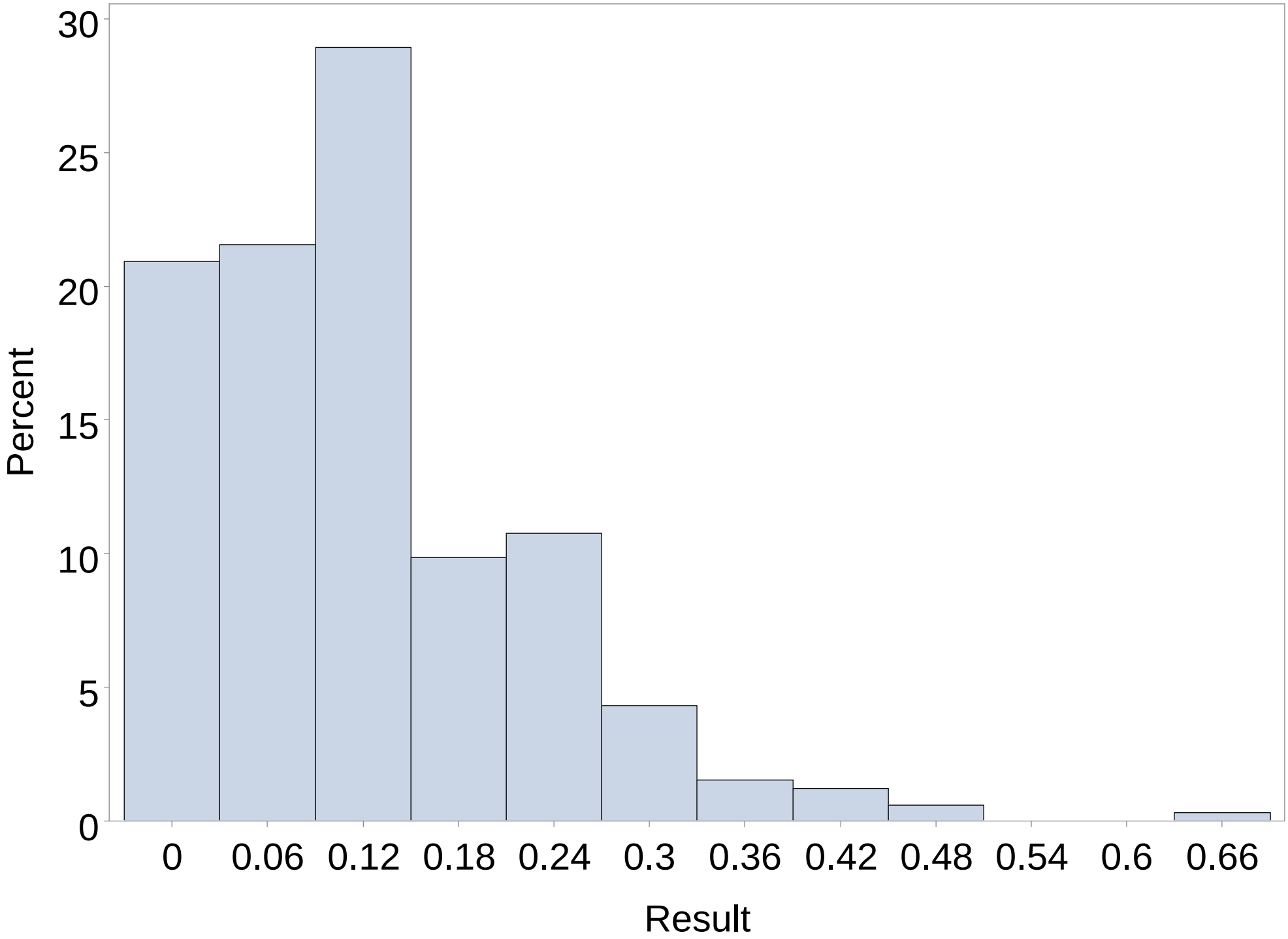
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.52461	**Pr > |t|**	<.0001
Sign	**M**	160.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26474.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.638
99%	0.416
95%	0.310
90%	0.255
75% Q3	0.161
50% Median	0.100
25% Q1	0.047
10%	0.010
5%	0.005
1%	0.001
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	49984	0.411	50039
-0.002	49981	0.416	49922
0.001	49876	0.470	50027
0.001	49870	0.480	50080
0.002	49978	0.638	49936


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=7
Percent
30
25
20
15
10
5
0
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
0.66
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=8

Moments			
N	326	**Sum Weights**	326
Mean	0.20118712	**Sum Observations**	65.587
Std Deviation	0.17039044	**Variance**	0.0290329
Skewness	1.01386185	**Kurtosis**	0.93705305
Uncorrected SS	22.630953	**Corrected SS**	9.43569359
Coeff Variation	84.6925224	**Std Error Mean**	0.00943705

Basic Statistical Measures			
Location		**Variability**	
Mean	0.201187	**Std Deviation**	0.17039
Median	0.170000	**Variance**	0.02903
Mode	0.100000	**Range**	0.86100
		Interquartile Range	0.23200

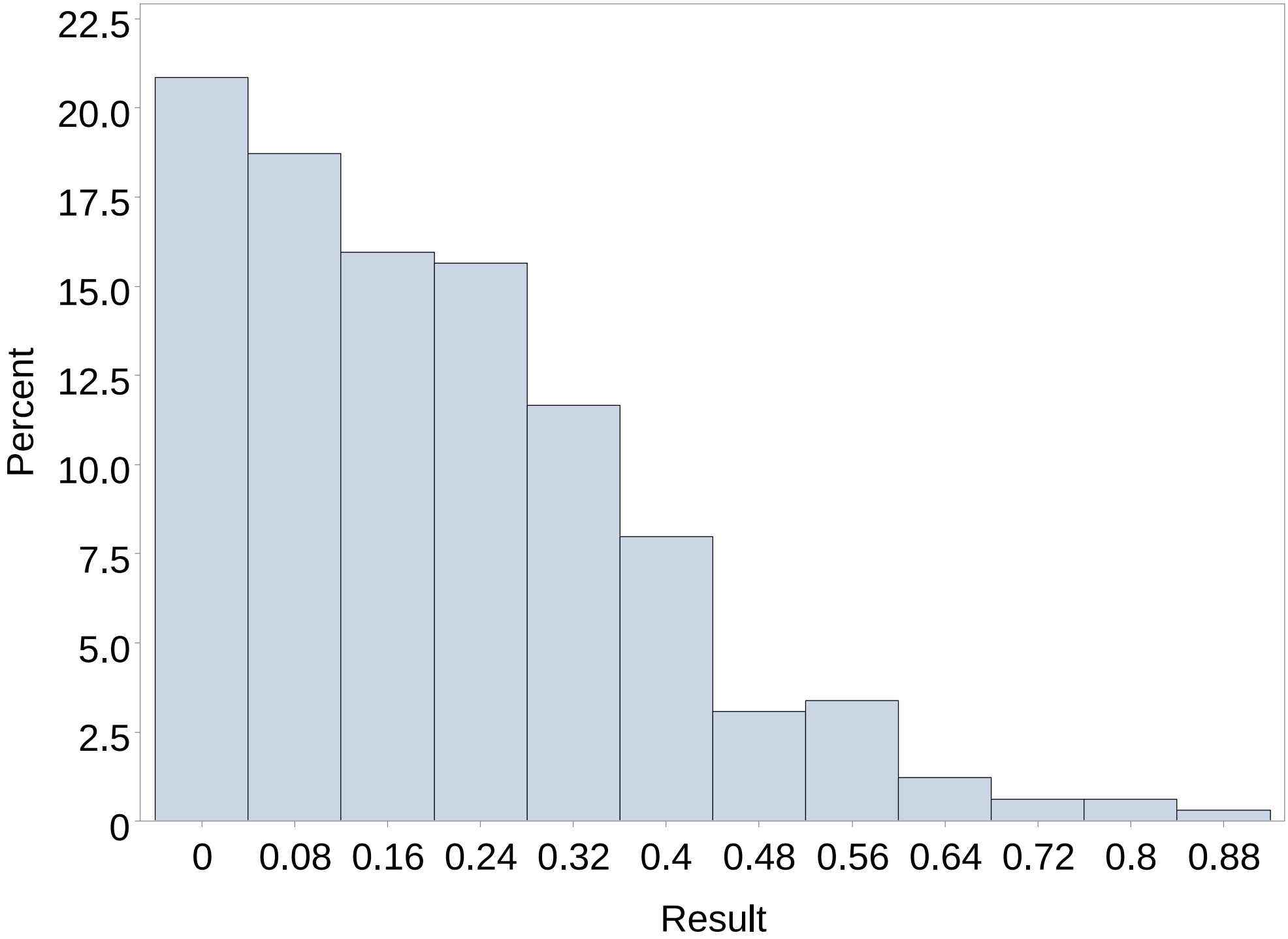
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.31885	**Pr > |t|**	<.0001
Sign	**M**	161.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26480.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.859
99%	0.758
95%	0.529
90%	0.429
75% Q3	0.292
50% Median	0.170
25% Q1	0.060
10%	0.010
5%	0.004
1%	0.002
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	50305	0.706	50300
0.000	50201	0.758	50261
0.001	50213	0.780	50418
0.002	50303	0.787	50263
0.002	50299	0.859	50286


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=8
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
0.08
0.16
0.24
0.32
0.4
0.48
0.56
0.64
0.72
0.8
0.88
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=9

Moments			
N	326	**Sum Weights**	326
Mean	0.13398773	**Sum Observations**	43.68
Std Deviation	0.14844656	**Variance**	0.02203638
Skewness	4.81937278	**Kurtosis**	48.1997015
Uncorrected SS	13.014408	**Corrected SS**	7.16182395
Coeff Variation	110.79116	**Std Error Mean**	0.00822169

Basic Statistical Measures			
Location		**Variability**	
Mean	0.133988	**Std Deviation**	0.14845
Median	0.100000	**Variance**	0.02204
Mode	0.100000	**Range**	1.80200
		Interquartile Range	0.17800

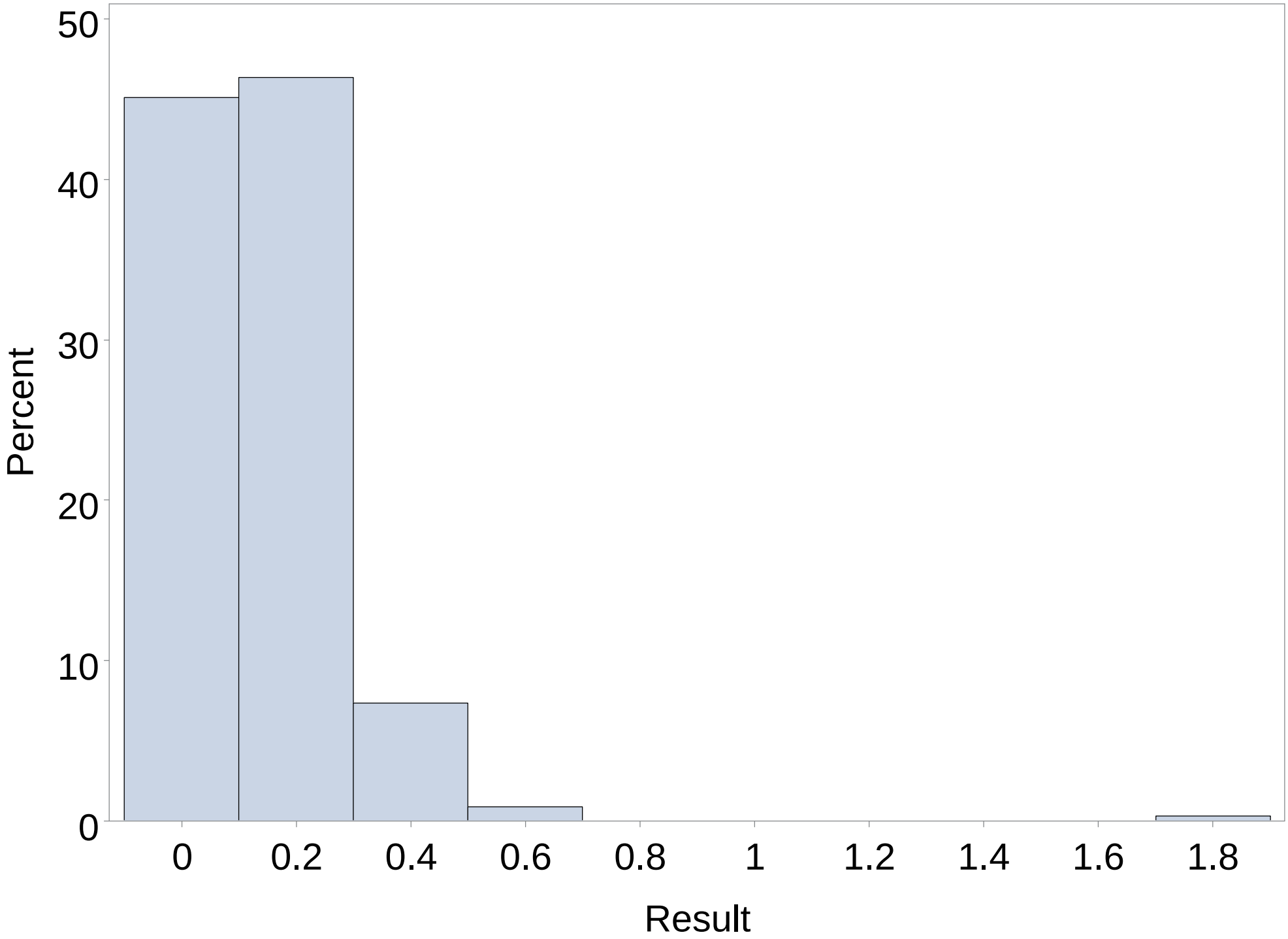
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.29685	**Pr > |t|**	<.0001
Sign	**M**	161	**Pr >= |M|**	<.0001
Signed Rank	**S**	26620.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.800
99%	0.501
95%	0.350
90%	0.290
75% Q3	0.200
50% Median	0.100
25% Q1	0.022
10%	0.006
5%	0.002
1%	0.001
0% Min	-0.002

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.002	50635	0.470	50745
-0.002	50631	0.501	50689
0.001	50588	0.578	50626
0.001	50552	0.630	50744
0.001	50542	1.800	50737


Parameter=Nitrate + Nitrite Nitrogen (mg/L) STATION=9
50
40
30
20
10
0
Percent
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=1

Moments			
N	283	**Sum Weights**	283
Mean	0.07151237	**Sum Observations**	20.238
Std Deviation	0.08303162	**Variance**	0.00689425
Skewness	3.95630342	**Kurtosis**	22.4807498
Uncorrected SS	3.391446	**Corrected SS**	1.94417871
Coeff Variation	116.108063	**Std Error Mean**	0.00493572

Basic Statistical Measures			
Location		**Variability**	
Mean	0.071512	**Std Deviation**	0.08303
Median	0.052000	**Variance**	0.00689
Mode	0.010000	**Range**	0.71200
		Interquartile Range	0.06900

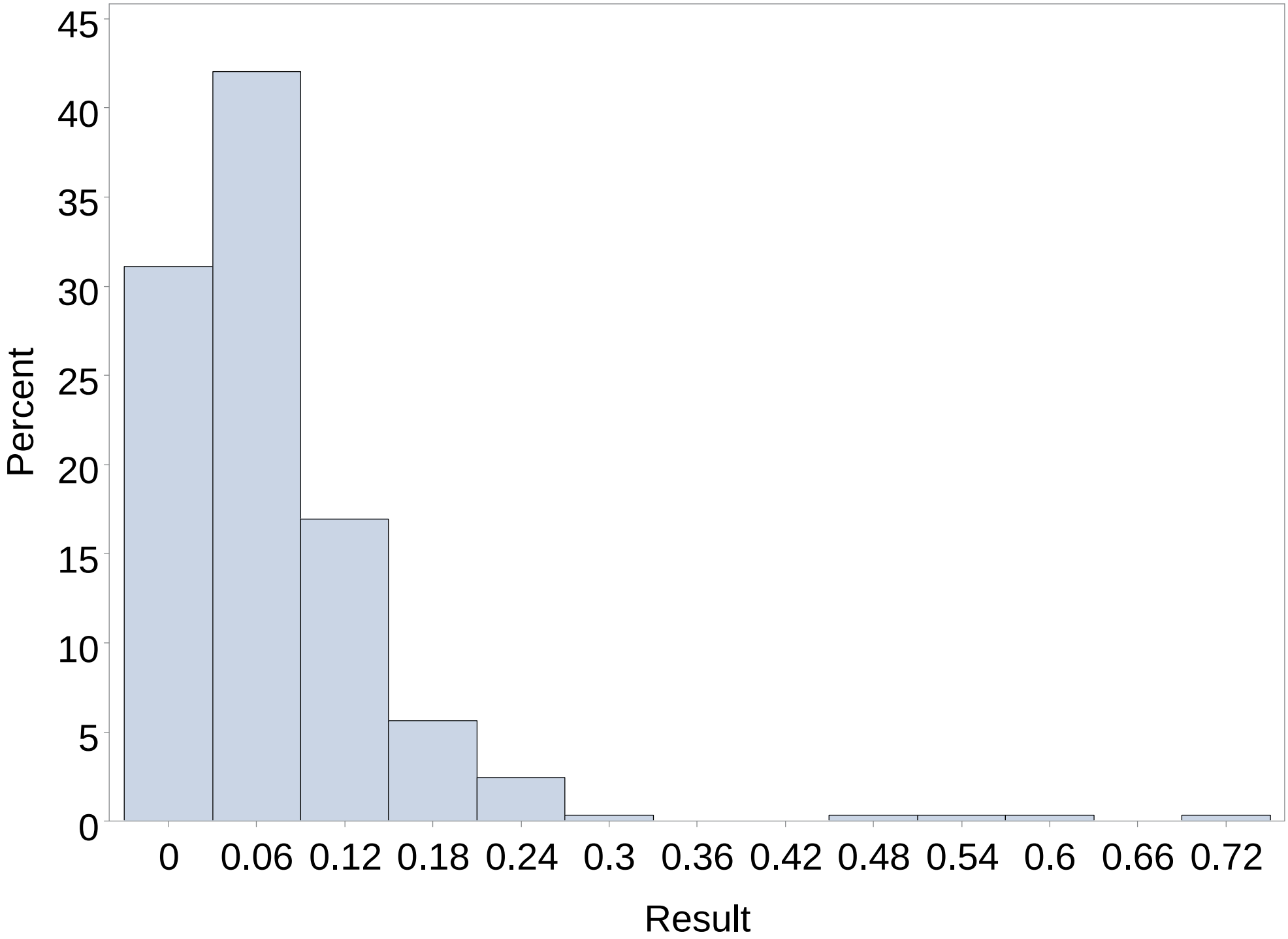
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.48875	**Pr > |t|**	<.0001
Sign	**M**	135.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	20007.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.702
99%	0.540
95%	0.196
90%	0.147
75% Q3	0.093
50% Median	0.052
25% Q1	0.024
10%	0.010
5%	0.006
1%	-0.009
0% Min	-0.010

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.010	50958	0.310	51094
-0.010	50950	0.470	51117
-0.009	50873	0.540	51120
-0.008	50869	0.620	51119
-0.002	50844	0.702	51022


Parameter=Ammonia/Ammonium (mg/L) STATION=1
Percent
45
40
35
30
25
20
15
10
5
0
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
0.66
0.72
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=2

Moments			
N	284	**Sum Weights**	284
Mean	0.0382993	**Sum Observations**	10.877
Std Deviation	0.06526563	**Variance**	0.0042596
Skewness	4.9269761	**Kurtosis**	31.7087686
Uncorrected SS	1.622049	**Corrected SS**	1.20546756
Coeff Variation	170.409482	**Std Error Mean**	0.0038728

Basic Statistical Measures			
Location		**Variability**	
Mean	0.038299	**Std Deviation**	0.06527
Median	0.020000	**Variance**	0.00426
Mode	0.010000	**Range**	0.59000
		Interquartile Range	0.03550

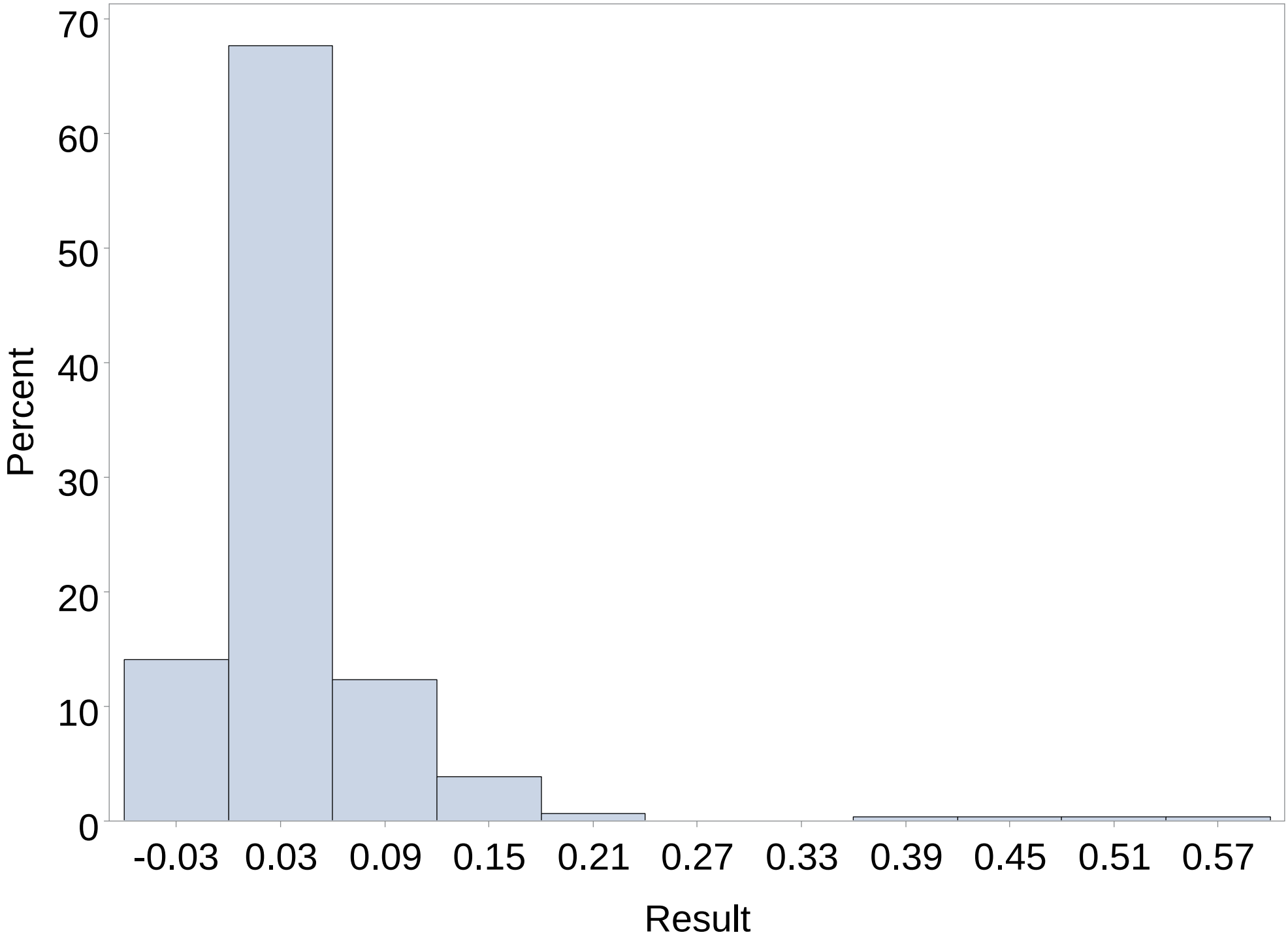
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.889297	**Pr > |t|**	<.0001
Sign	**M**	102	**Pr >= |M|**	<.0001
Signed Rank	**S**	18462.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.5700
99%	0.4700
95%	0.1400
90%	0.0770
75% Q3	0.0455
50% Median	0.0200
25% Q1	0.0100
10%	-0.0090
5%	-0.0100
1%	-0.0100
0% Min	-0.0200

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.02	51122	0.20	51402
-0.01	51251	0.36	51404
-0.01	51243	0.47	51191
-0.01	51241	0.50	51401
-0.01	51240	0.57	51403


Parameter=Ammonia/Ammonium (mg/L) STATION=2
Percent
70
60
50
40
30
20
10
0
-0.03
0.03
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
0.57
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=3

Moments			
N	283	**Sum Weights**	283
Mean	0.04273852	**Sum Observations**	12.095
Std Deviation	0.06414983	**Variance**	0.0041152
Skewness	4.11508057	**Kurtosis**	25.9773553
Uncorrected SS	1.677409	**Corrected SS**	1.16048665
Coeff Variation	150.098407	**Std Error Mean**	0.00381331

Basic Statistical Measures			
Location		**Variability**	
Mean	0.042739	**Std Deviation**	0.06415
Median	0.024000	**Variance**	0.00412
Mode	0.020000	**Range**	0.61000
		Interquartile Range	0.04800

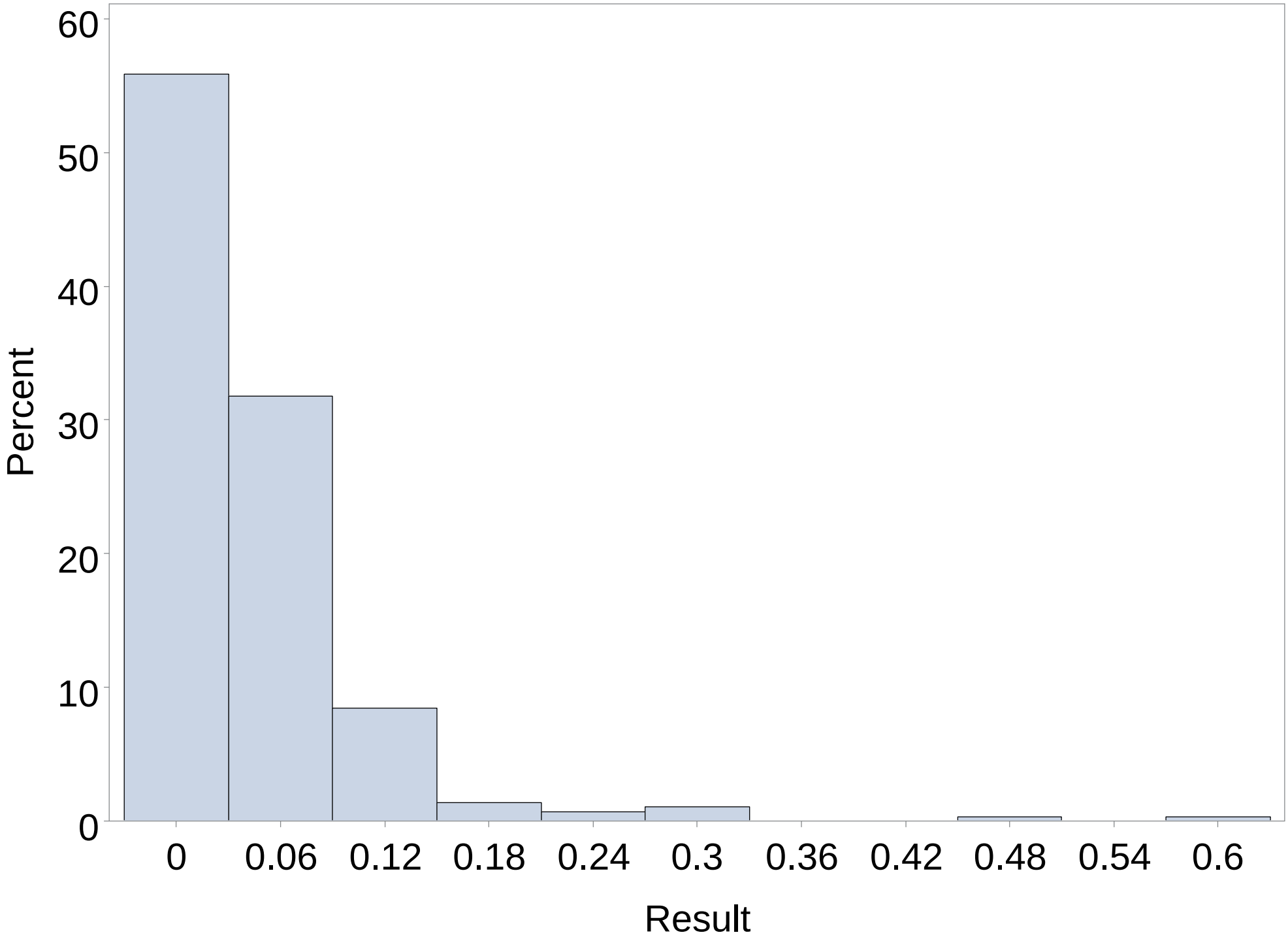
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.20772	**Pr > |t|**	<.0001
Sign	**M**	92.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	17950.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.590
99%	0.290
95%	0.140
90%	0.096
75% Q3	0.058
50% Median	0.024
25% Q1	0.010
10%	-0.009
5%	-0.010
1%	-0.010
0% Min	-0.020

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.02	51406	0.27	51684
-0.01	51535	0.28	51548
-0.01	51527	0.29	51660
-0.01	51525	0.46	51687
-0.01	51524	0.59	51686


Parameter=Ammonia/Ammonium (mg/L) STATION=3
Percent
60
50
40
30
20
10
0
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=4

Moments			
N	283	**Sum Weights**	283
Mean	0.04639929	**Sum Observations**	13.131
Std Deviation	0.0730134	**Variance**	0.00533096
Skewness	5.81069916	**Kurtosis**	54.4004173
Uncorrected SS	2.112599	**Corrected SS**	1.50332988
Coeff Variation	157.358869	**Std Error Mean**	0.0043402

Basic Statistical Measures			
Location		**Variability**	
Mean	0.04640	**Std Deviation**	0.07301
Median	0.02800	**Variance**	0.00533
Mode	-0.01000	**Range**	0.87000
		Interquartile Range	0.05600

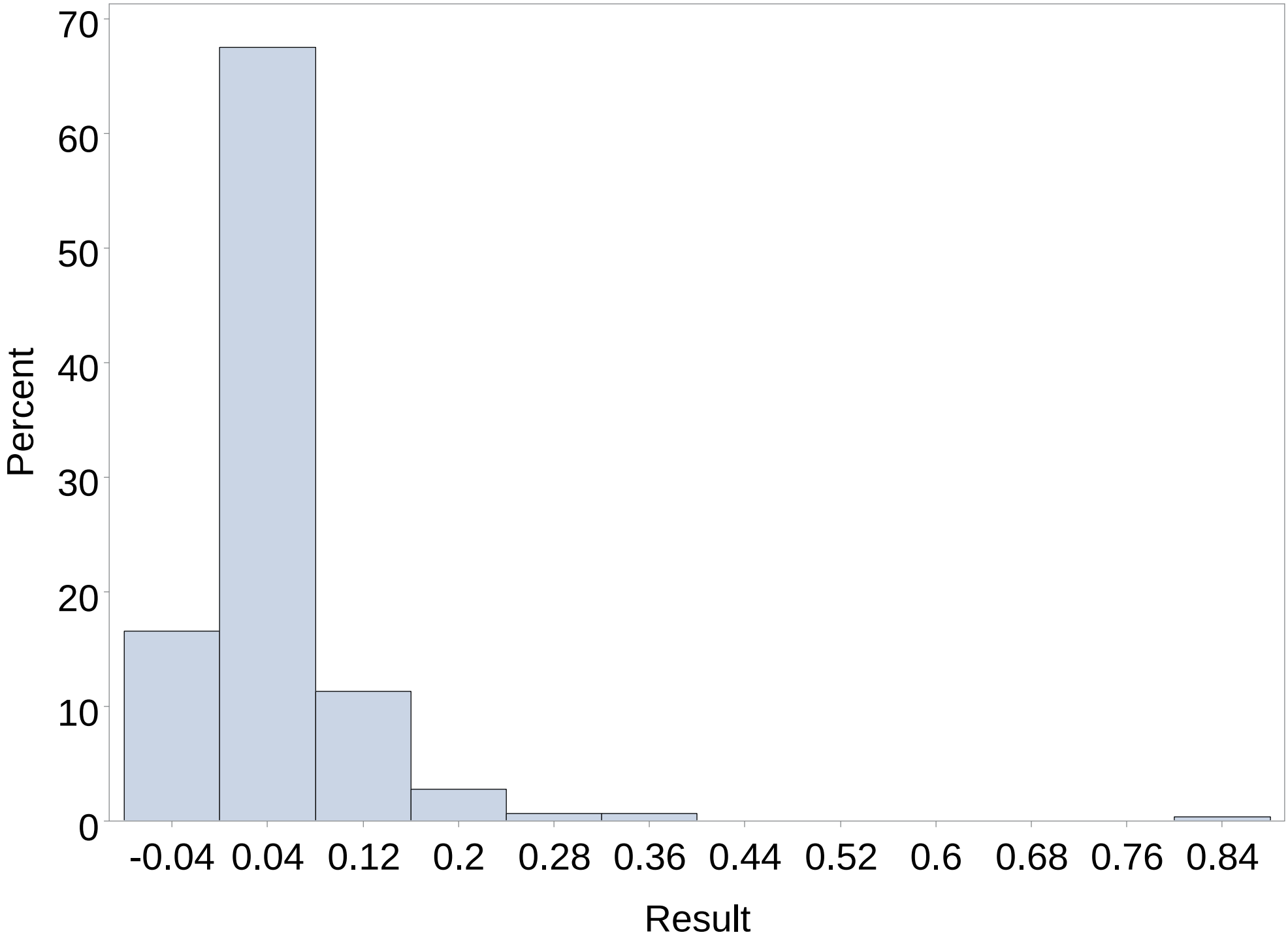
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.6906	**Pr > |t|**	<.0001
Sign	**M**	94.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	18069	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.850
99%	0.370
95%	0.140
90%	0.098
75% Q3	0.066
50% Median	0.028
25% Q1	0.010
10%	-0.009
5%	-0.010
1%	-0.010
0% Min	-0.020

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.02	51689	0.24	51897
-0.01	51818	0.26	51705
-0.01	51815	0.37	51970
-0.01	51812	0.39	51943
-0.01	51810	0.85	51967


Parameter=Ammonia/Ammonium (mg/L) STATION=4
Percent
70
60
50
40
30
20
10
0
-0.04
0.04
0.12
0.2
0.28
0.36
0.44
0.52
0.6
0.68
0.76
0.84
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=5

Moments			
N	284	**Sum Weights**	284
Mean	0.0455669	**Sum Observations**	12.941
Std Deviation	0.09958535	**Variance**	0.00991724
Skewness	10.7964779	**Kurtosis**	149.237821
Uncorrected SS	3.396261	**Corrected SS**	2.80657973
Coeff Variation	218.547568	**Std Error Mean**	0.0059093

Basic Statistical Measures			
Location		**Variability**	
Mean	0.04557	**Std Deviation**	0.09959
Median	0.02650	**Variance**	0.00992
Mode	-0.01000	**Range**	1.49000
		Interquartile Range	0.05250

Note: The mode displayed is the smallest of 2 modes with a count of 28.

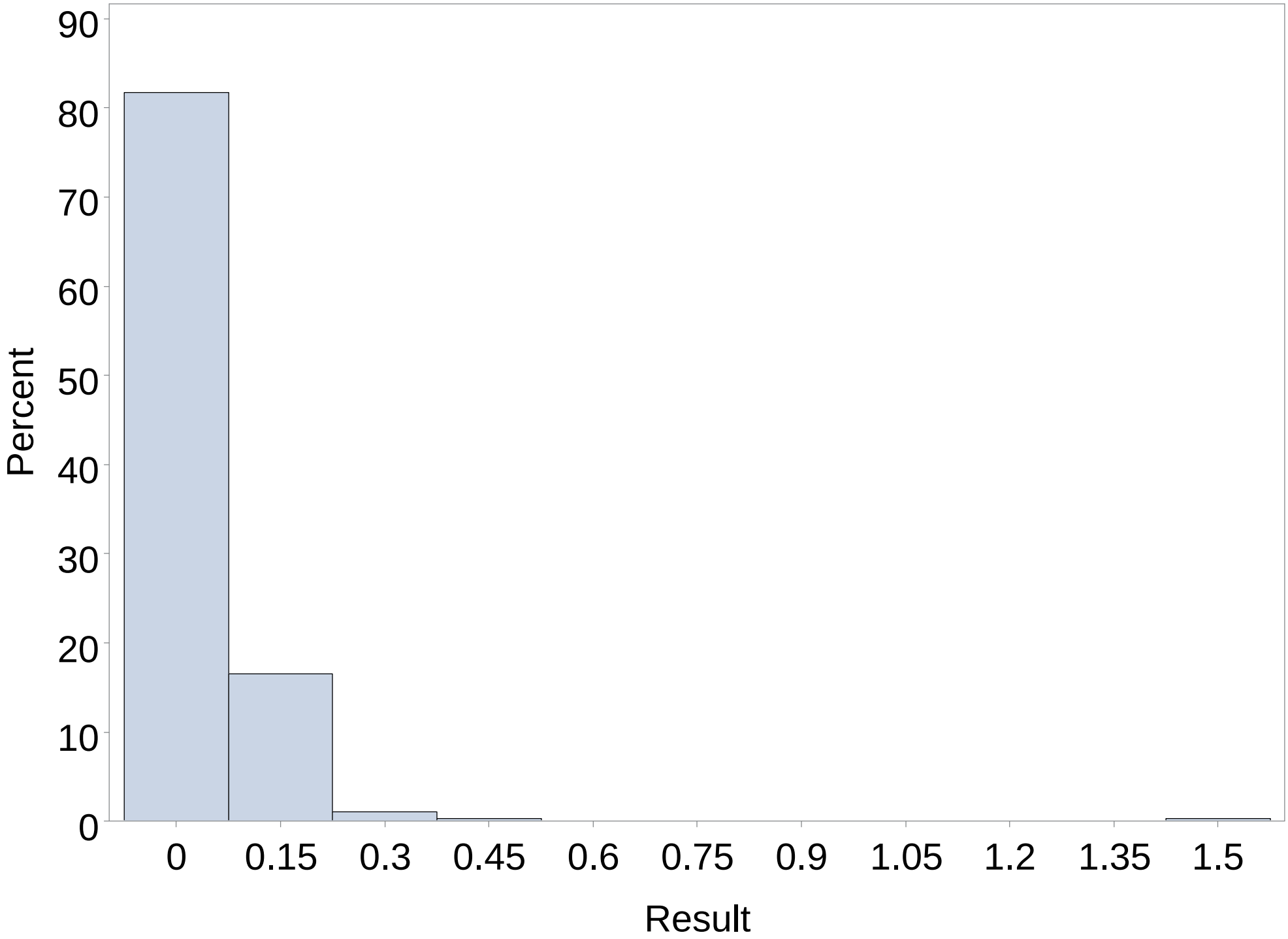
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.711044	**Pr > |t|**	<.0001
Sign	**M**	93	**Pr >= |M|**	<.0001
Signed Rank	**S**	18229.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.4700
99%	0.3500
95%	0.1200
90%	0.0940
75% Q3	0.0625
50% Median	0.0265
25% Q1	0.0100
10%	-0.0100
5%	-0.0100
1%	-0.0100
0% Min	-0.0200

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.02	51972	0.259	51988
-0.01	52098	0.310	52227
-0.01	52095	0.350	52254
-0.01	52093	0.390	52251
-0.01	52091	1.470	52148


Parameter=Ammonia/Ammonium (mg/L) STATION=5
Percent
90
80
70
60
50
40
30
20
10
0
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
1.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=6

Moments			
N	284	**Sum Weights**	284
Mean	0.04735211	**Sum Observations**	13.448
Std Deviation	0.07551764	**Variance**	0.00570291
Skewness	5.59990858	**Kurtosis**	46.5040445
Uncorrected SS	2.250716	**Corrected SS**	1.61392479
Coeff Variation	159.481043	**Std Error Mean**	0.00448115

Basic Statistical Measures			
Location		**Variability**	
Mean	0.047352	**Std Deviation**	0.07552
Median	0.030000	**Variance**	0.00570
Mode	0.020000	**Range**	0.85300
		Interquartile Range	0.05300

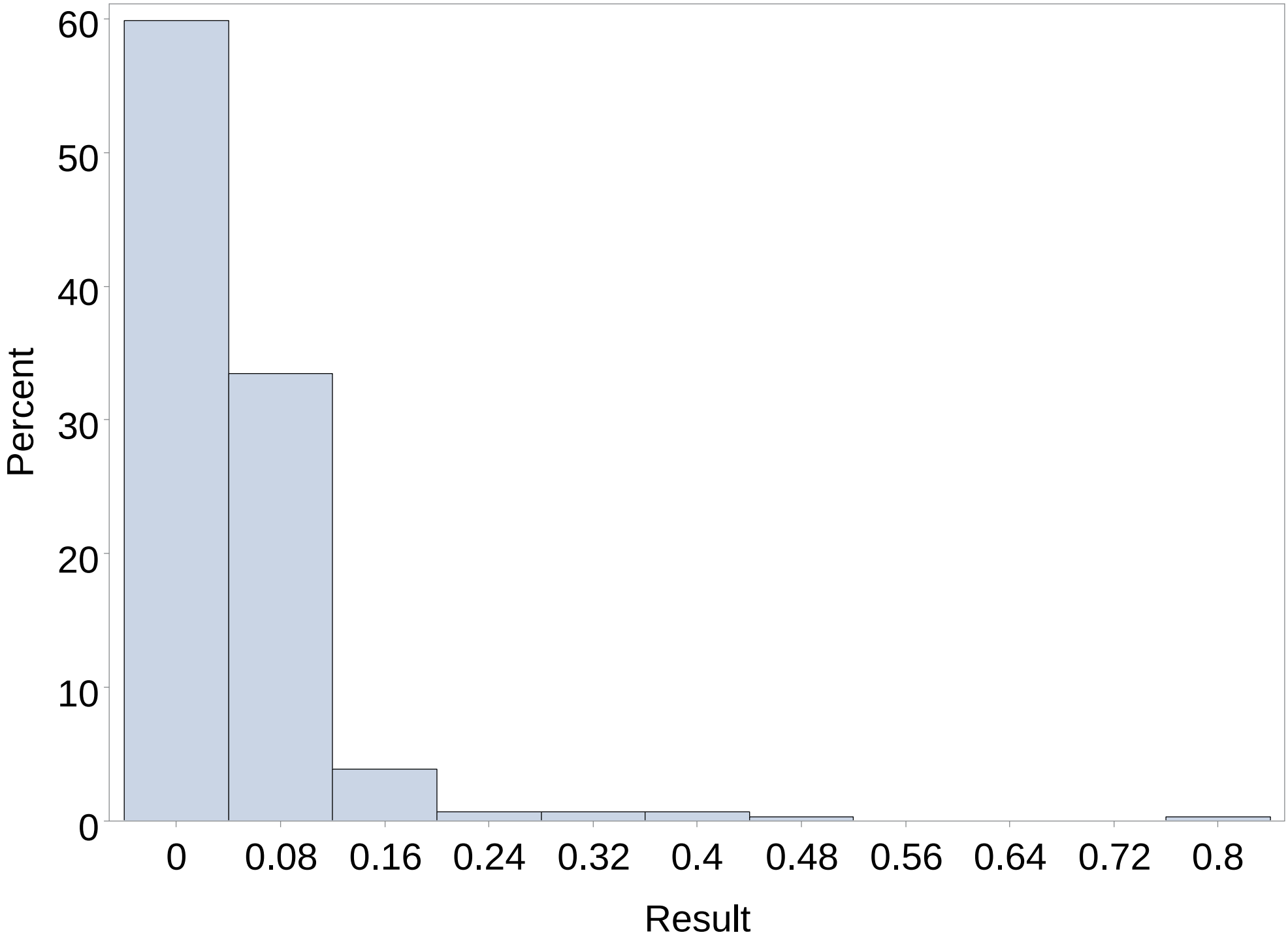
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.56696	**Pr > |t|**	<.0001
Sign	**M**	101	**Pr >= |M|**	<.0001
Signed Rank	**S**	18728	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.833
99%	0.390
95%	0.130
90%	0.095
75% Q3	0.063
50% Median	0.030
25% Q1	0.010
10%	-0.009
5%	-0.010
1%	-0.010
0% Min	-0.020

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.02	52256	0.350	52511
-0.01	52379	0.380	52538
-0.01	52377	0.390	52535
-0.01	52375	0.440	52468
-0.01	52374	0.833	52448


Parameter=Ammonia/Ammonium (mg/L) STATION=6
Percent
60
50
40
30
20
10
0
0
0.08
0.16
0.24
0.32
0.4
0.48
0.56
0.64
0.72
0.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=7

Moments			
N	283	**Sum Weights**	283
Mean	0.04420141	**Sum Observations**	12.509
Std Deviation	0.04871787	**Variance**	0.00237343
Skewness	2.07877819	**Kurtosis**	6.46583884
Uncorrected SS	1.222223	**Corrected SS**	0.66930752
Coeff Variation	110.217902	**Std Error Mean**	0.00289598

Basic Statistical Measures			
Location		**Variability**	
Mean	0.044201	**Std Deviation**	0.04872
Median	0.030000	**Variance**	0.00237
Mode	0.010000	**Range**	0.33000
		Interquartile Range	0.05100

Note: The mode displayed is the smallest of 2 modes with a count of 29.

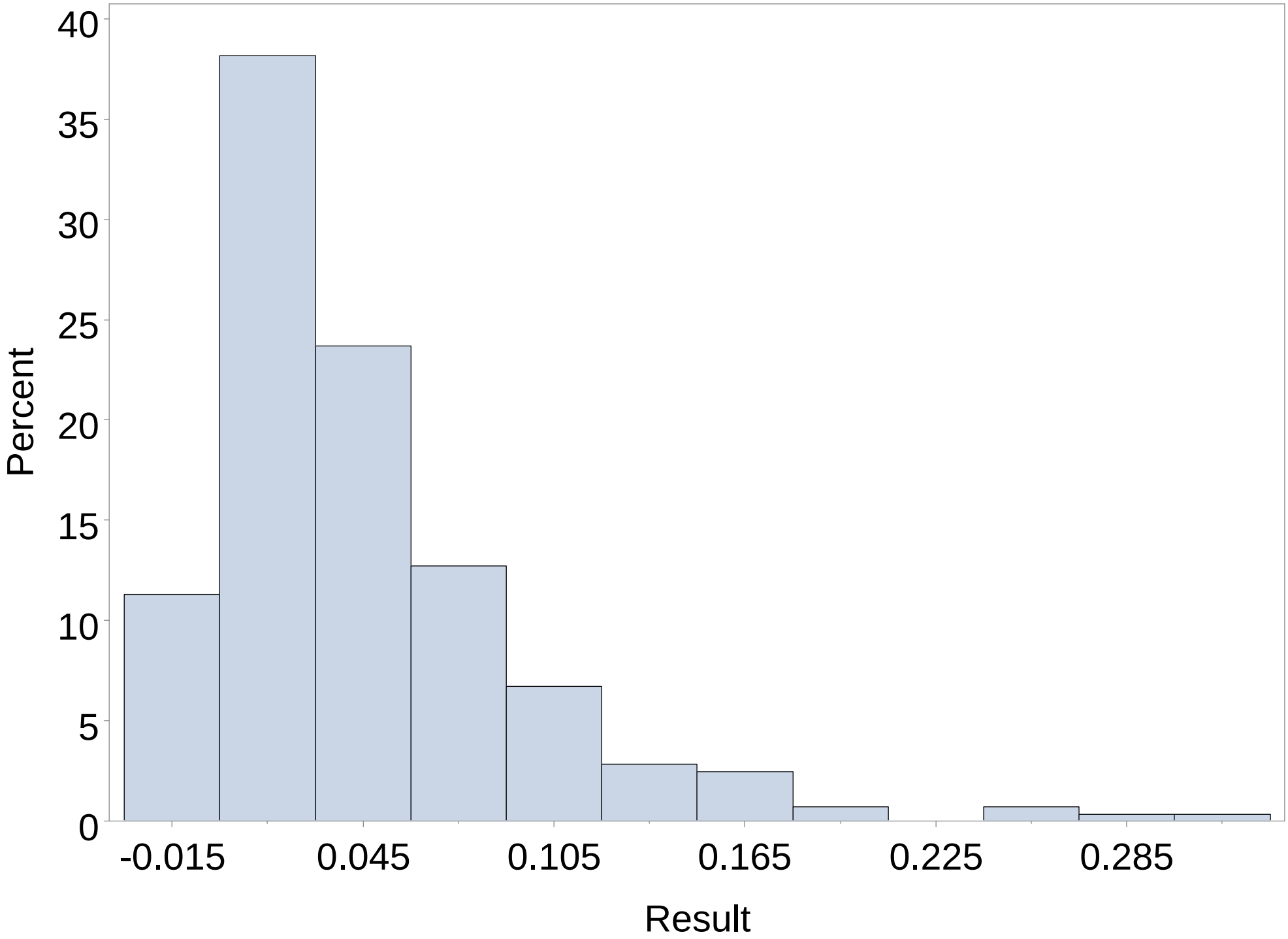
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.26304	**Pr > |t|**	<.0001
Sign	**M**	109.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	19047.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.310
99%	0.246
95%	0.140
90%	0.100
75% Q3	0.063
50% Median	0.030
25% Q1	0.012
10%	-0.006
5%	-0.010
1%	-0.010
0% Min	-0.020

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.02	52540	0.190	52677
-0.01	52663	0.242	52591
-0.01	52661	0.246	52556
-0.01	52659	0.290	52821
-0.01	52658	0.310	52794


Parameter=Ammonia/Ammonium (mg/L) STATION=7
Percent
40
35
30
25
20
15
10
5
0
-0.015
0.045
0.105
0.165
0.225
0.285
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=8

Moments			
N	284	**Sum Weights**	284
Mean	0.05253169	**Sum Observations**	14.919
Std Deviation	0.13708759	**Variance**	0.01879301
Skewness	10.9210039	**Kurtosis**	146.80249
Uncorrected SS	6.102141	**Corrected SS**	5.31842071
Coeff Variation	260.961688	**Std Error Mean**	0.00813465

Basic Statistical Measures			
Location		**Variability**	
Mean	0.052532	**Std Deviation**	0.13709
Median	0.026000	**Variance**	0.01879
Mode	0.010000	**Range**	2.01000
		Interquartile Range	0.04400

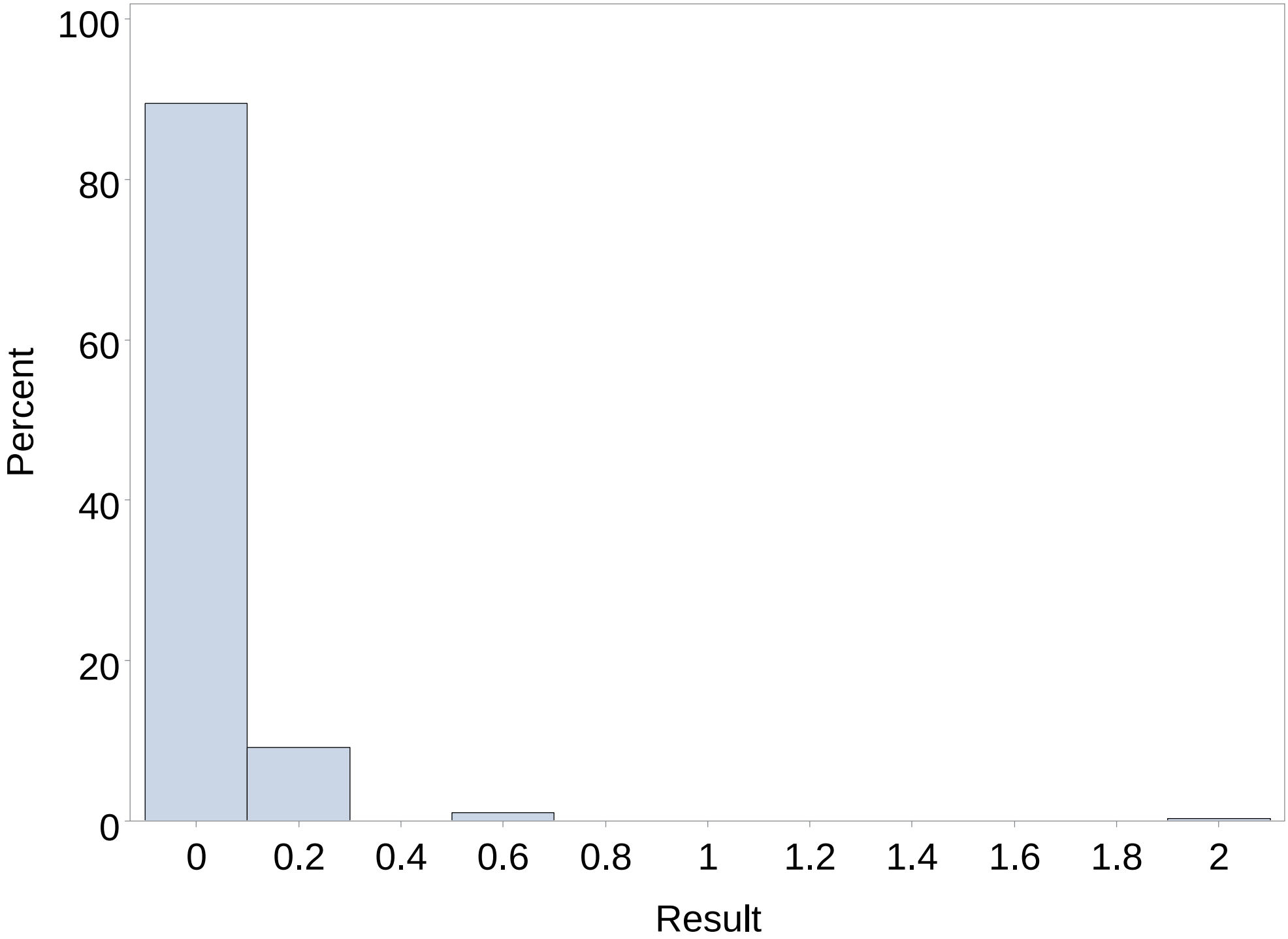
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	6.457768	**Pr > |t|**	<.0001
Sign	**M**	109	**Pr >= |M|**	<.0001
Signed Rank	**S**	19021	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.000
99%	0.610
95%	0.140
90%	0.100
75% Q3	0.054
50% Median	0.026
25% Q1	0.010
10%	-0.006
5%	-0.010
1%	-0.010
0% Min	-0.010

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.01	52946	0.28	53105
-0.01	52944	0.55	53098
-0.01	52942	0.61	53104
-0.01	52941	0.63	53102
-0.01	52940	2.00	52931


Parameter=Ammonia/Ammonium (mg/L) STATION=8
Percent
100
80
60
40
20
0
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=9

Moments			
N	284	**Sum Weights**	284
Mean	0.05171479	**Sum Observations**	14.687
Std Deviation	0.11743561	**Variance**	0.01379112
Skewness	7.97628578	**Kurtosis**	85.8806396
Uncorrected SS	4.662423	**Corrected SS**	3.9028879
Coeff Variation	227.083232	**Std Error Mean**	0.00696852

Basic Statistical Measures			
Location		**Variability**	
Mean	0.051715	**Std Deviation**	0.11744
Median	0.023500	**Variance**	0.01379
Mode	0.020000	**Range**	1.51000
		Interquartile Range	0.04600

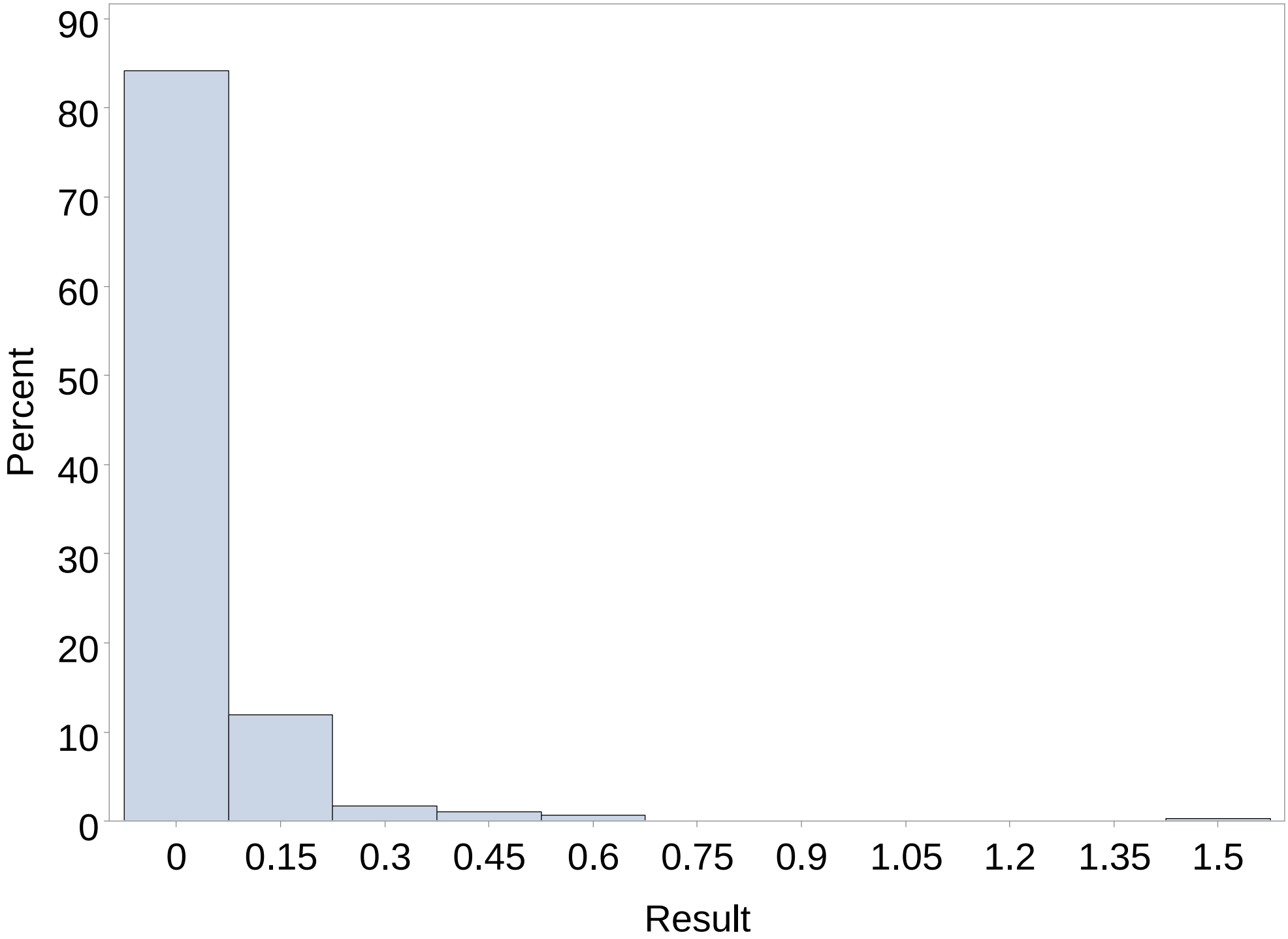
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.421199	**Pr > |t|**	<.0001
Sign	**M**	104	**Pr >= |M|**	<.0001
Signed Rank	**S**	18759.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.5000
99%	0.5900
95%	0.1600
90%	0.1000
75% Q3	0.0560
50% Median	0.0235
25% Q1	0.0100
10%	-0.0080
5%	-0.0100
1%	-0.0100
0% Min	-0.0100

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Ammonia/Ammonium (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.01	53232	0.46	53387
-0.01	53230	0.50	53215
-0.01	53228	0.59	53388
-0.01	53226	0.62	53382
-0.01	53225	1.50	53325


Parameter=Ammonia/Ammonium (mg/L) STATION=9
Percent
90
80
70
60
50
40
30
20
10
0
0
0.15
0.3
0.45
0.6
0.75
0.9
1.05
1.2
1.35
1.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=1

Moments			
N	330	**Sum Weights**	330
Mean	0.11759697	**Sum Observations**	38.807
Std Deviation	0.06674029	**Variance**	0.00445427
Skewness	2.63361204	**Kurtosis**	12.886921
Uncorrected SS	6.029039	**Corrected SS**	1.4654534
Coeff Variation	56.7534055	**Std Error Mean**	0.00367393

Basic Statistical Measures			
Location		**Variability**	
Mean	0.117597	**Std Deviation**	0.06674
Median	0.099000	**Variance**	0.00445
Mode	0.120000	**Range**	0.63100
		Interquartile Range	0.06400

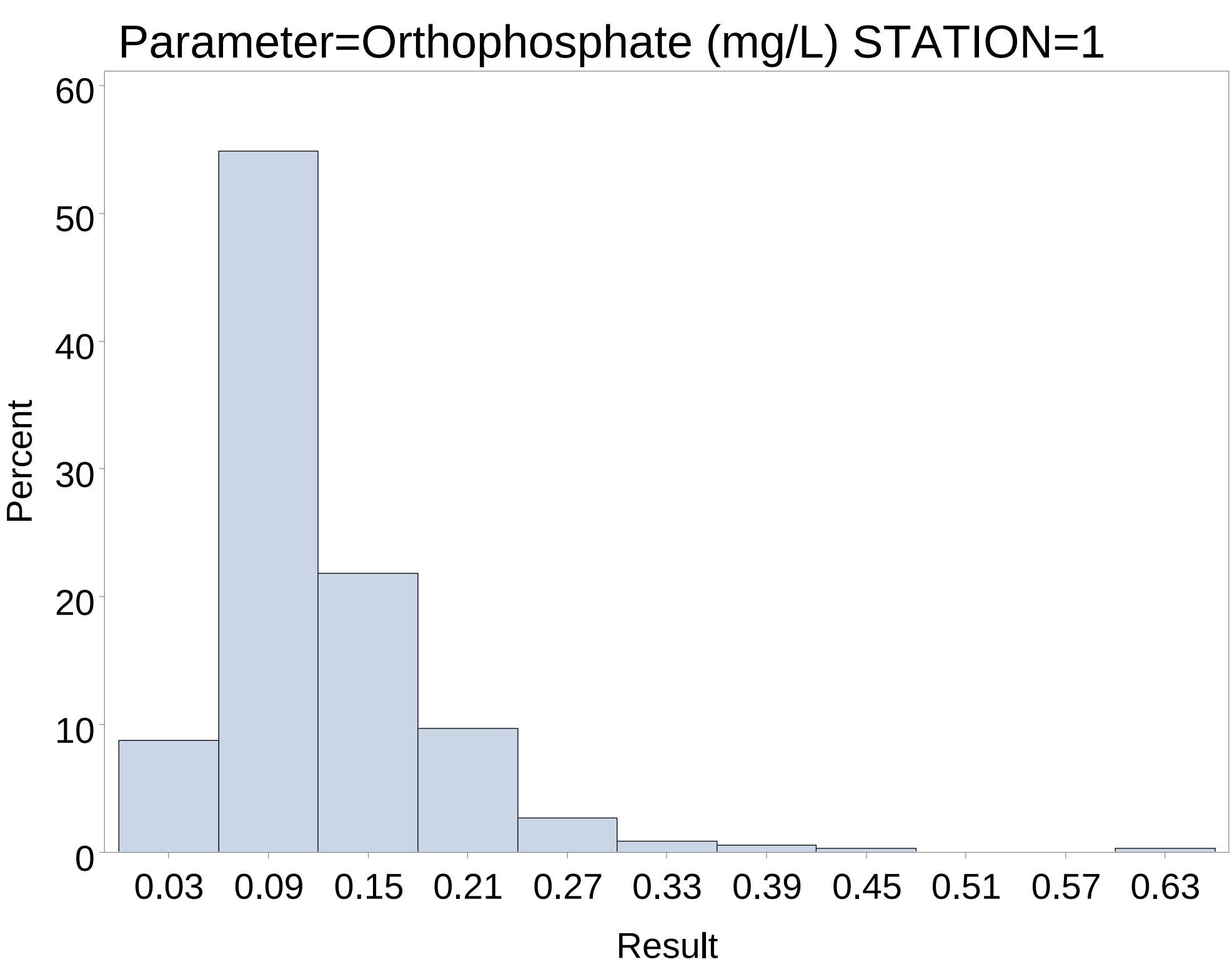
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.00848	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.6350
99%	0.3700
95%	0.2350
90%	0.2000
75% Q3	0.1400
50% Median	0.0990
25% Q1	0.0760
10%	0.0625
5%	0.0550
1%	0.0180
0% Min	0.0040

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.004	53402	0.322	53516
0.014	53510	0.370	53527
0.017	53497	0.380	53608
0.018	53708	0.430	53701
0.034	53561	0.635	53407


Parameter=Orthophosphate (mg/L) STATION=1
Percent
60
50
40
30
20
10
0
0.03
0.09
0.15
0.21
0.27
0.33
0.39
0.45
0.51
0.57
0.63
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=2

Moments			
N	330	**Sum Weights**	330
Mean	0.06766364	**Sum Observations**	22.329
Std Deviation	0.05897193	**Variance**	0.00347769
Skewness	1.8449729	**Kurtosis**	4.00069213
Uncorrected SS	2.655021	**Corrected SS**	1.14415966
Coeff Variation	87.1545437	**Std Error Mean**	0.0032463

Basic Statistical Measures			
Location		**Variability**	
Mean	0.067664	**Std Deviation**	0.05897
Median	0.049000	**Variance**	0.00348
Mode	0.075000	**Range**	0.35100
		Interquartile Range	0.05700

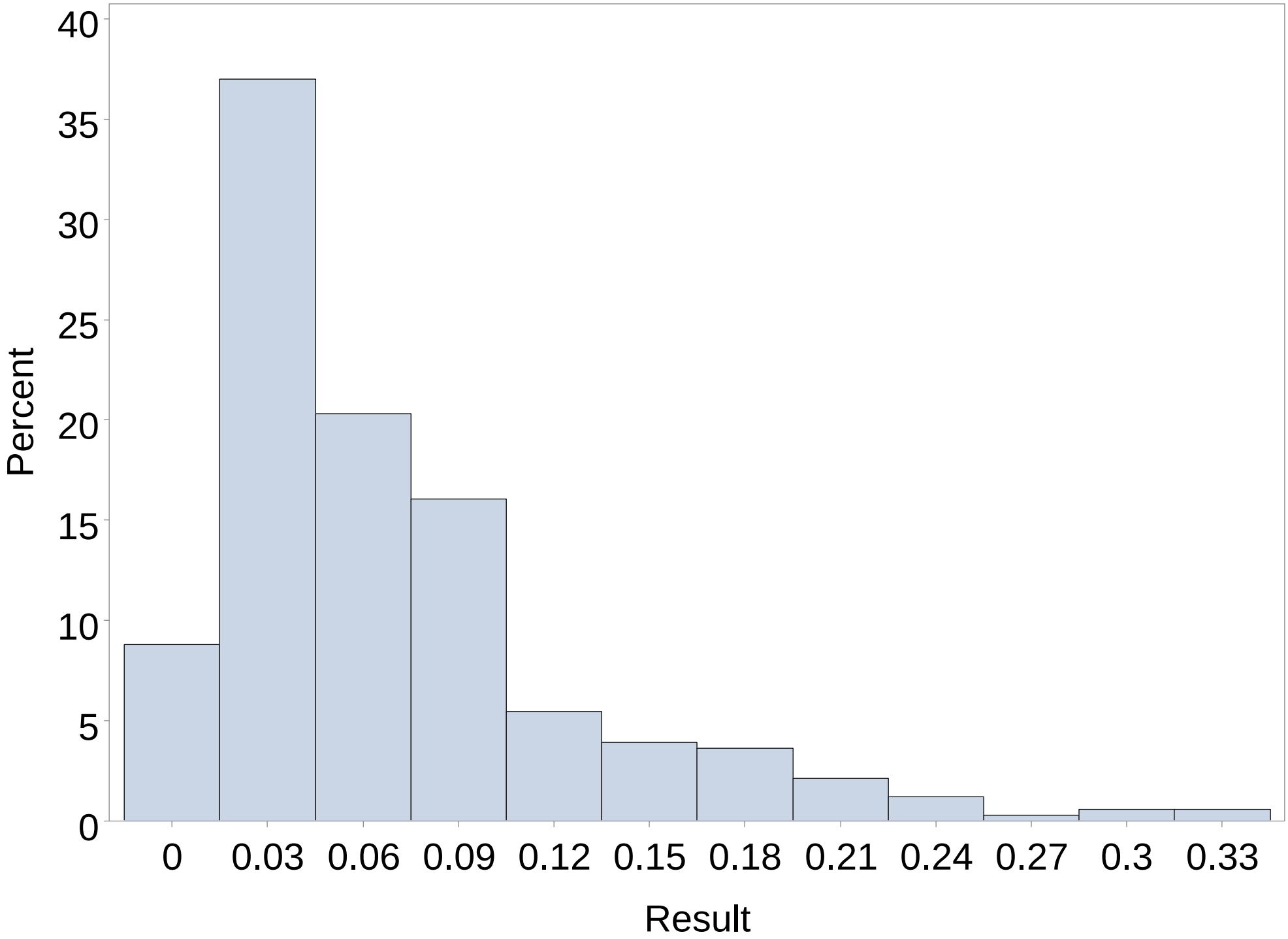
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.84332	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	27292	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.3410
99%	0.3000
95%	0.1910
90%	0.1505
75% Q3	0.0850
50% Median	0.0490
25% Q1	0.0280
10%	0.0160
5%	0.0100
1%	0.0040
0% Min	-0.0100

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.010	53840	0.263	53725
0.004	54038	0.300	54031
0.004	53908	0.308	53761
0.004	53901	0.330	53737
0.005	53818	0.341	53751


Parameter=Orthophosphate (mg/L) STATION=2
Percent
40
35
30
25
20
15
10
5
0
0
0.03
0.06
0.09
0.12
0.15
0.18
0.21
0.24
0.27
0.3
0.33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=3

Moments			
N	330	**Sum Weights**	330
Mean	0.09591515	**Sum Observations**	31.652
Std Deviation	0.06625551	**Variance**	0.00438979
Skewness	2.12624518	**Kurtosis**	10.0583406
Uncorrected SS	4.480148	**Corrected SS**	1.44424162
Coeff Variation	69.0772059	**Std Error Mean**	0.00364725

Basic Statistical Measures			
Location		**Variability**	
Mean	0.095915	**Std Deviation**	0.06626
Median	0.078000	**Variance**	0.00439
Mode	0.075000	**Range**	0.61000
		Interquartile Range	0.06800

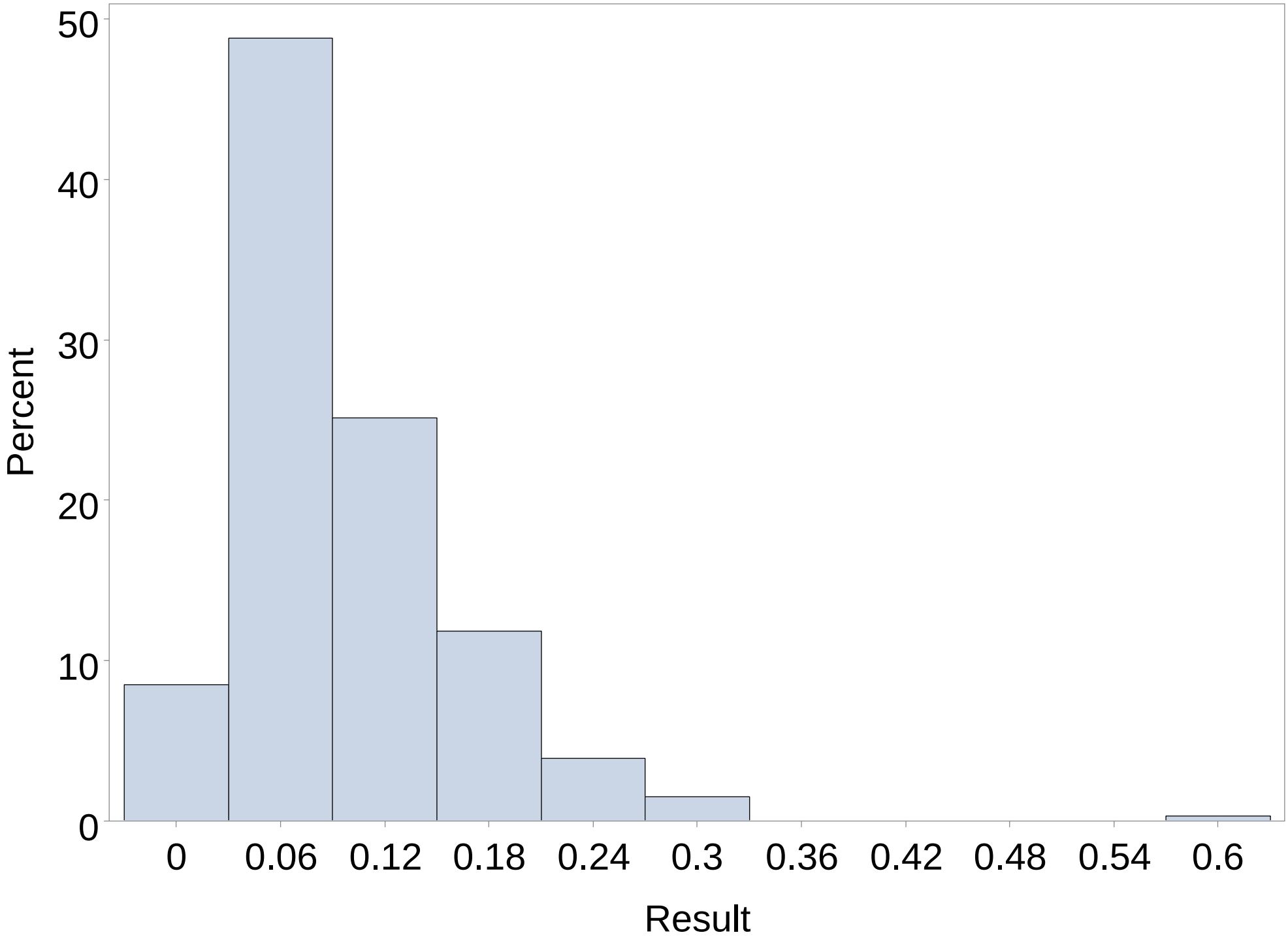
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.29797	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	27302.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.6000
99%	0.2900
95%	0.2100
90%	0.1900
75% Q3	0.1210
50% Median	0.0780
25% Q1	0.0530
10%	0.0305
5%	0.0230
1%	0.0100
0% Min	-0.0100

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.010	54170	0.280	54361
0.002	54220	0.290	54315
0.007	54256	0.299	54151
0.010	54368	0.320	54187
0.010	54286	0.600	54067


Parameter=Orthophosphate (mg/L) STATION=3
Percent
50
40
30
20
10
0
0
0.06
0.12
0.18
0.24
0.3
0.36
0.42
0.48
0.54
0.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=4

Moments			
N	330	**Sum Weights**	330
Mean	0.1402697	**Sum Observations**	46.289
Std Deviation	0.08464898	**Variance**	0.00716545
Skewness	1.94389923	**Kurtosis**	9.42450935
Uncorrected SS	8.850377	**Corrected SS**	2.357433
Coeff Variation	60.3473038	**Std Error Mean**	0.00465977

Basic Statistical Measures			
Location		**Variability**	
Mean	0.140270	**Std Deviation**	0.08465
Median	0.120000	**Variance**	0.00717
Mode	0.120000	**Range**	0.78300
		Interquartile Range	0.11100

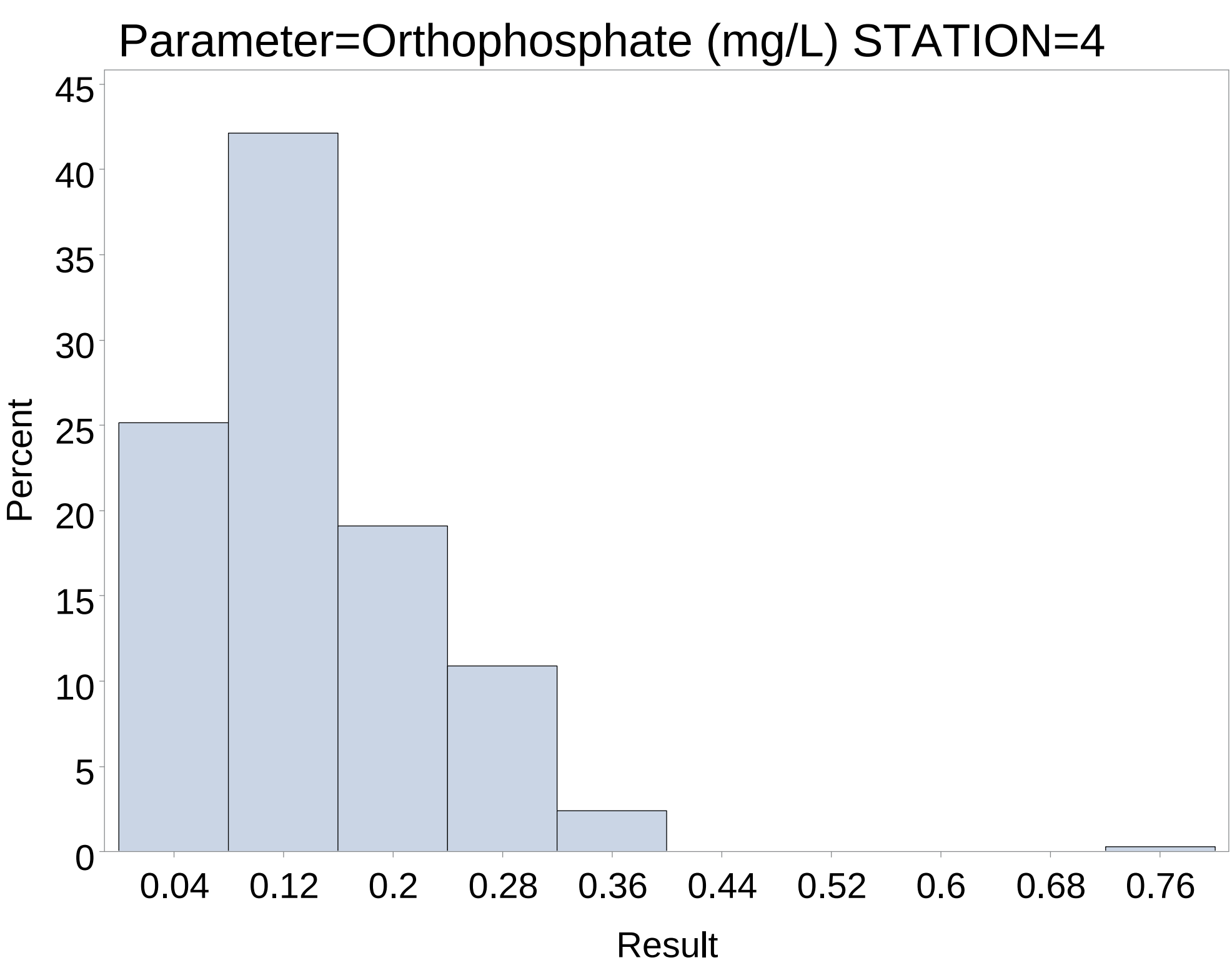
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.10226	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.7850
99%	0.3550
95%	0.2960
90%	0.2585
75% Q3	0.1900
50% Median	0.1200
25% Q1	0.0790
10%	0.0595
5%	0.0440
1%	0.0260
0% Min	0.0020

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.002	54551	0.351	54481
0.020	54441	0.355	54573
0.024	54698	0.360	54563
0.026	54548	0.370	54517
0.029	54700	0.785	54397


Parameter=Orthophosphate (mg/L) STATION=4
Percent
45
40
35
30
25
20
15
10
5
0
0.04
0.12
0.2
0.28
0.36
0.44
0.52
0.6
0.68
0.76
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=5

Moments			
N	329	**Sum Weights**	329
Mean	0.15175076	**Sum Observations**	49.926
Std Deviation	0.08558186	**Variance**	0.00732425
Skewness	2.42317398	**Kurtosis**	12.6084599
Uncorrected SS	9.978664	**Corrected SS**	2.40235556
Coeff Variation	56.3963305	**Std Error Mean**	0.00471828

Basic Statistical Measures			
Location		**Variability**	
Mean	0.151751	**Std Deviation**	0.08558
Median	0.132000	**Variance**	0.00732
Mode	0.110000	**Range**	0.74800
		Interquartile Range	0.09700

Note: The mode displayed is the smallest of 3 modes with a count of 11.

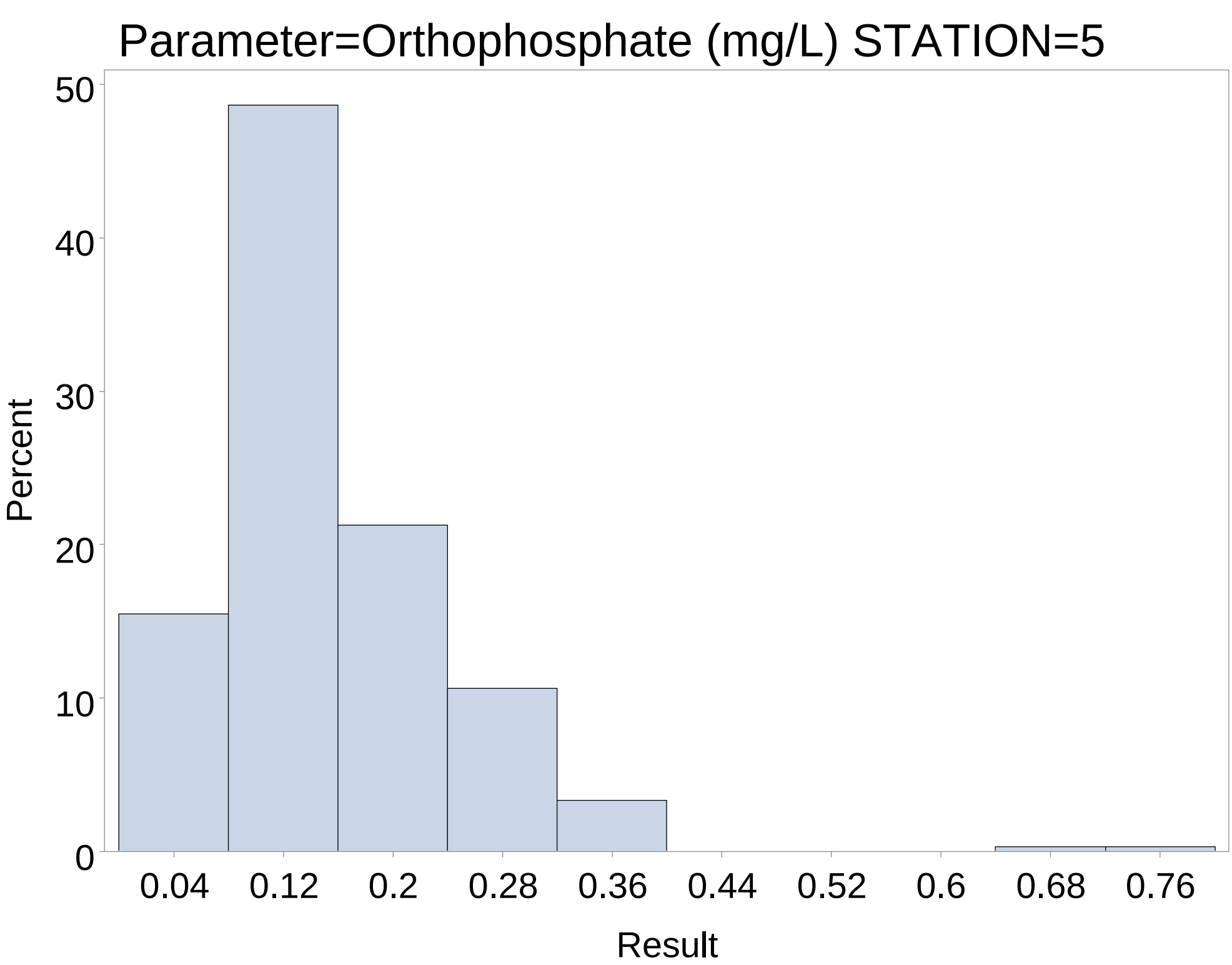
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.1623	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.770
99%	0.355
95%	0.290
90%	0.260
75% Q3	0.190
50% Median	0.132
25% Q1	0.093
10%	0.067
5%	0.060
1%	0.045
0% Min	0.022

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.022	55028	0.348	54902
0.023	55027	0.355	54903
0.037	54771	0.360	54847
0.045	54880	0.712	54719
0.048	54877	0.770	54727


Parameter=Orthophosphate (mg/L) STATION=5
Percent
50
40
30
20
10
0
0.04
0.12
0.2
0.28
0.36
0.44
0.52
0.6
0.68
0.76
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=6

Moments			
N	330	**Sum Weights**	330
Mean	0.19609394	**Sum Observations**	64.711
Std Deviation	0.10561604	**Variance**	0.01115475
Skewness	1.61018601	**Kurtosis**	4.37949662
Uncorrected SS	16.359347	**Corrected SS**	3.66991209
Coeff Variation	53.8599208	**Std Error Mean**	0.00581397

Basic Statistical Measures			
Location		**Variability**	
Mean	0.196094	**Std Deviation**	0.10562
Median	0.170000	**Variance**	0.01115
Mode	0.210000	**Range**	0.76200
		Interquartile Range	0.12300

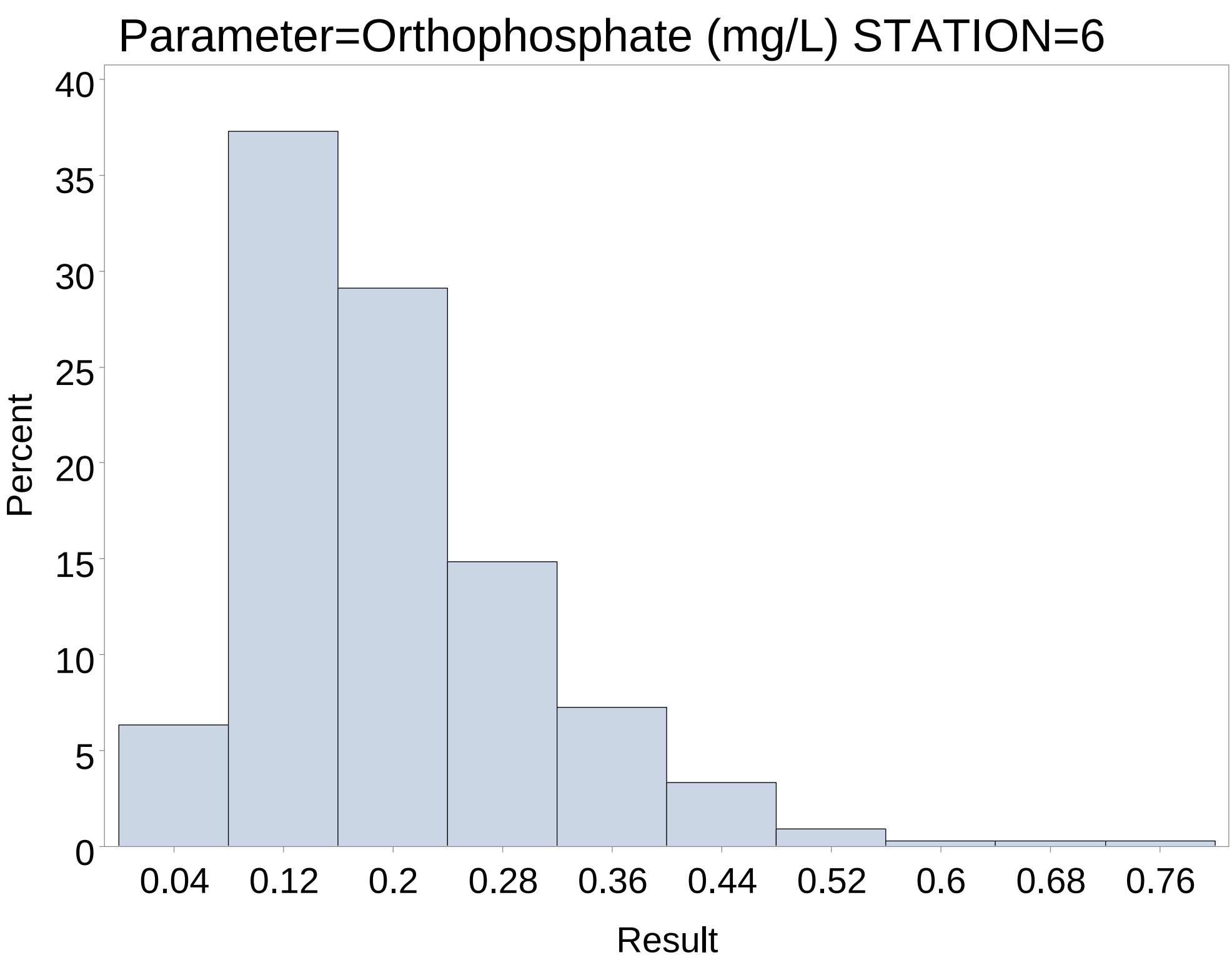
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.72805	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.790
99%	0.550
95%	0.403
90%	0.333
75% Q3	0.243
50% Median	0.170
25% Q1	0.120
10%	0.088
5%	0.079
1%	0.066
0% Min	0.028

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.028	55358	0.510	55198
0.032	55357	0.550	55247
0.059	55123	0.631	55204
0.066	55335	0.657	55048
0.067	55285	0.790	55056


Parameter=Orthophosphate (mg/L) STATION=6
Percent
40
35
30
25
20
15
10
5
0
0.04
0.12
0.2
0.28
0.36
0.44
0.52
0.6
0.68
0.76
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=7

Moments			
N	329	**Sum Weights**	329
Mean	0.29178723	**Sum Observations**	95.998
Std Deviation	0.13781548	**Variance**	0.01899311
Skewness	0.93444934	**Kurtosis**	1.81408641
Uncorrected SS	34.24073	**Corrected SS**	6.22973911
Coeff Variation	47.2314981	**Std Error Mean**	0.00759801

Basic Statistical Measures			
Location		**Variability**	
Mean	0.291787	**Std Deviation**	0.13782
Median	0.279000	**Variance**	0.01899
Mode	0.250000	**Range**	0.92000
		Interquartile Range	0.18800

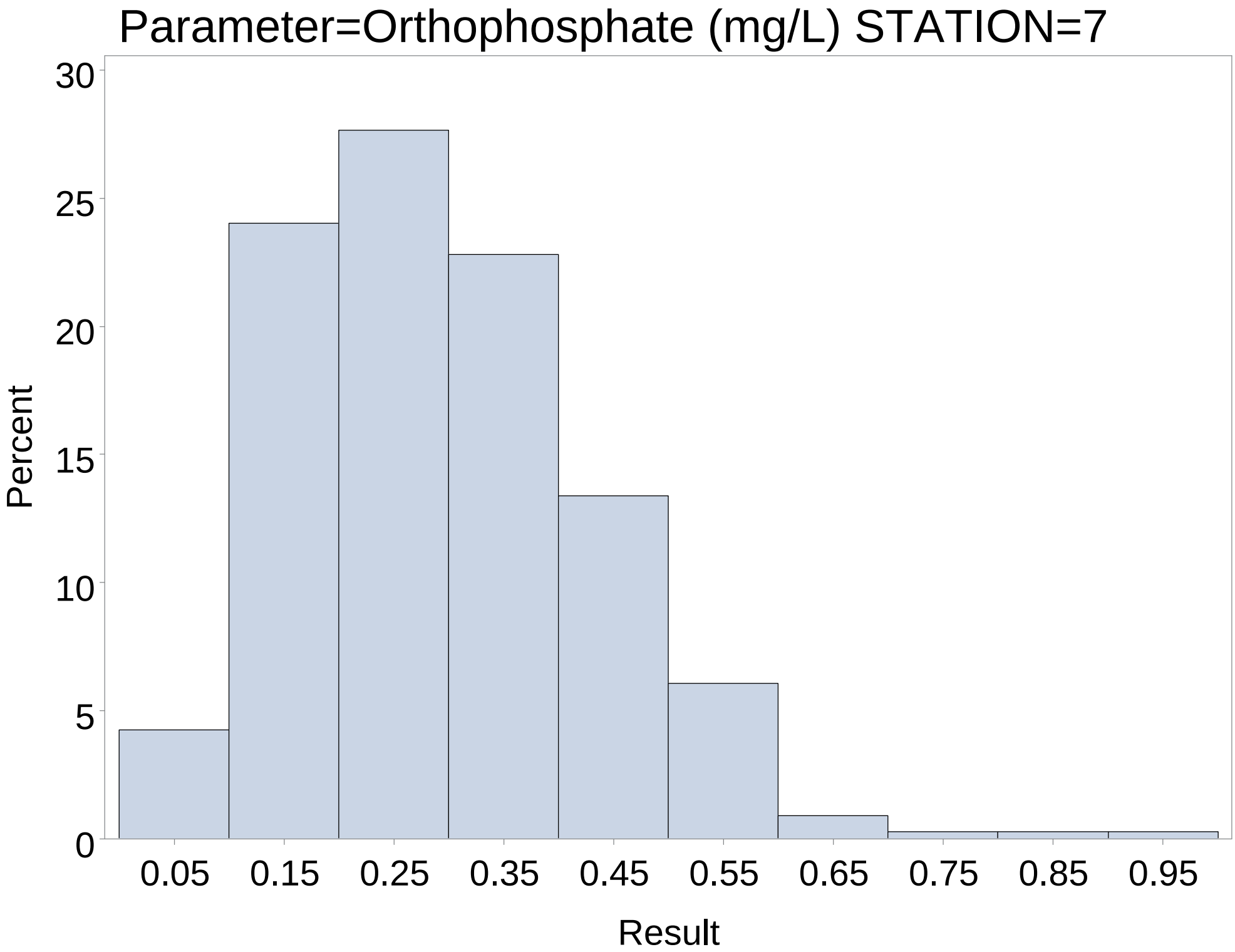
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	38.4031	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.975
99%	0.694
95%	0.523
90%	0.474
75% Q3	0.378
50% Median	0.279
25% Q1	0.190
10%	0.125
5%	0.110
1%	0.079
0% Min	0.055

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.055	55687	0.657	55455
0.067	55669	0.694	55537
0.070	55453	0.780	55386
0.079	55686	0.800	55576
0.082	55668	0.975	55533


Parameter=Orthophosphate (mg/L) STATION=7
Percent
30
25
20
15
10
5
0
0.05
0.15
0.25
0.35
0.45
0.55
0.65
0.75
0.85
0.95
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=8

Moments			
N	331	**Sum Weights**	331
Mean	0.48588822	**Sum Observations**	160.829
Std Deviation	0.18848235	**Variance**	0.0355256
Skewness	0.7486022	**Kurtosis**	0.84725101
Uncorrected SS	89.868363	**Corrected SS**	11.7234469
Coeff Variation	38.7912989	**Std Error Mean**	0.01035993

Basic Statistical Measures			
Location		**Variability**	
Mean	0.485888	**Std Deviation**	0.18848
Median	0.460000	**Variance**	0.03553
Mode	0.320000	**Range**	1.10800
		Interquartile Range	0.25200

Note: The mode displayed is the smallest of 4 modes with a count of 7.

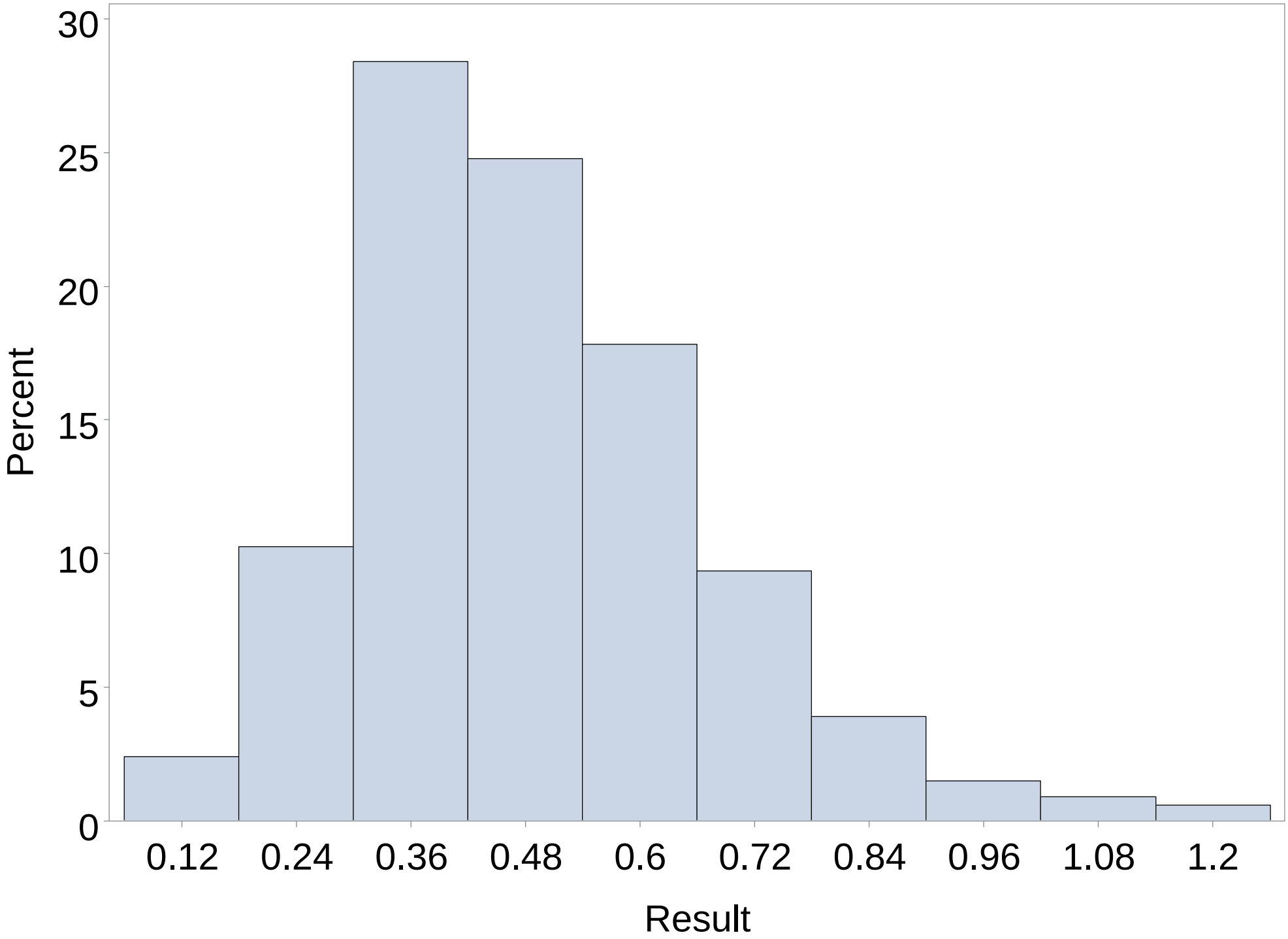
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	46.90074	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.200
99%	1.065
95%	0.819
90%	0.730
75% Q3	0.600
50% Median	0.460
25% Q1	0.348
10%	0.267
5%	0.220
1%	0.152
0% Min	0.092

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.092	55881	1.030	55867
0.100	55980	1.065	55715
0.133	55819	1.070	55862
0.152	55821	1.150	55864
0.164	55818	1.200	55907


Parameter=Orthophosphate (mg/L) STATION=8
Percent
30
25
20
15
10
5
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=9

Moments			
N	330	**Sum Weights**	330
Mean	0.36523636	**Sum Observations**	120.528
Std Deviation	0.15855926	**Variance**	0.02514104
Skewness	1.06989572	**Kurtosis**	1.37367196
Uncorrected SS	52.29261	**Corrected SS**	8.27140156
Coeff Variation	43.4127796	**Std Error Mean**	0.0087284

Basic Statistical Measures			
Location		**Variability**	
Mean	0.365236	**Std Deviation**	0.15856
Median	0.324000	**Variance**	0.02514
Mode	0.250000	**Range**	0.88300
		Interquartile Range	0.20200

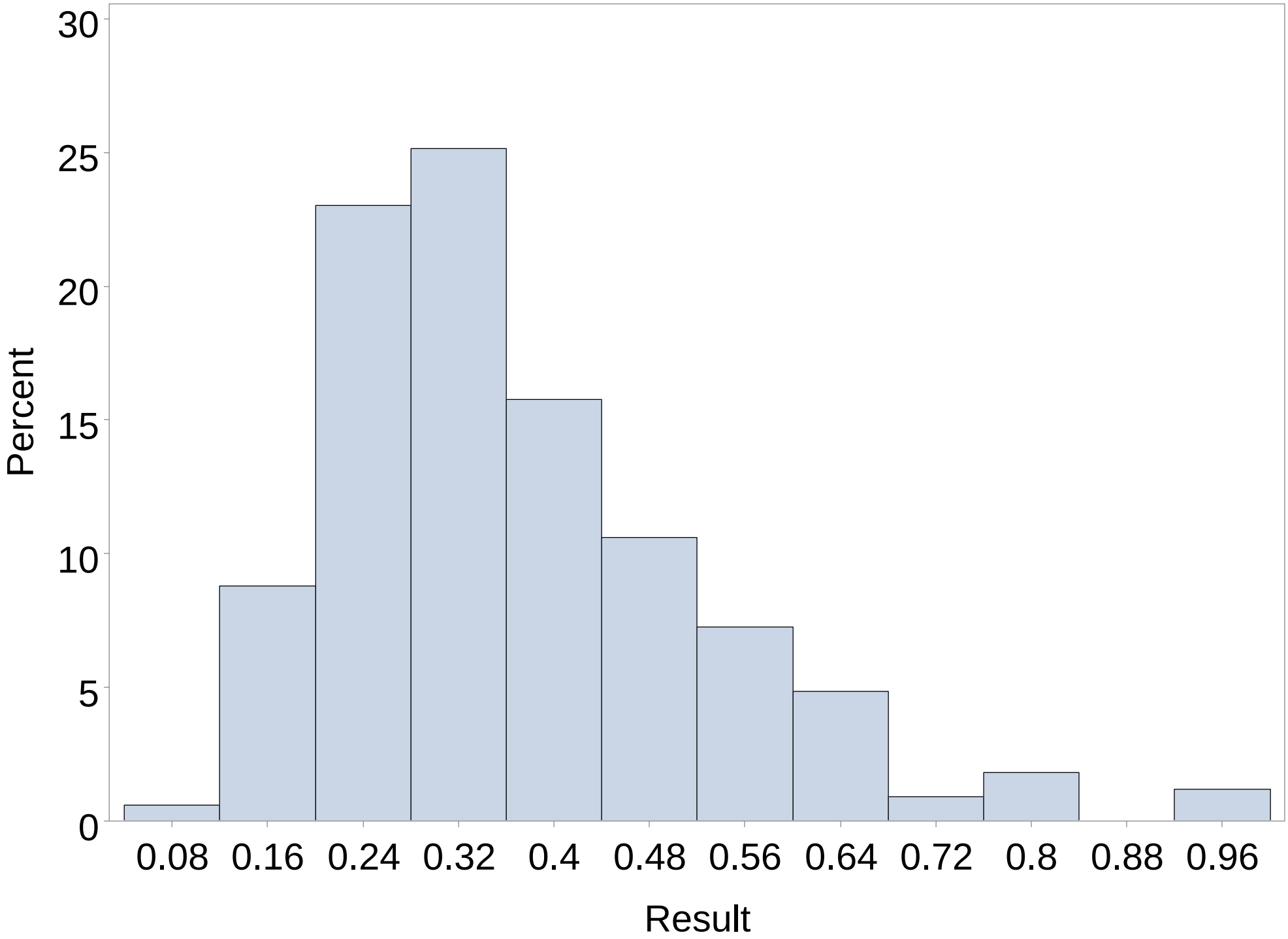
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.8446	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.964
99%	0.920
95%	0.660
90%	0.580
75% Q3	0.454
50% Median	0.324
25% Q1	0.252
10%	0.200
5%	0.156
1%	0.122
0% Min	0.081

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Orthophosphate (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.081	56211	0.810	56237
0.105	56149	0.920	56343
0.120	56151	0.937	56193
0.122	56347	0.960	56192
0.123	56148	0.964	56197


Parameter=Orthophosphate (mg/L) STATION=9
Percent
30
25
20
15
10
5
0
0.08
0.16
0.24
0.32
0.4
0.48
0.56
0.64
0.72
0.8
0.88
0.96
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=1

Moments			
N	11	**Sum Weights**	11
Mean	-99	**Sum Observations**	-1089
Std Deviation	0	**Variance**	0
Skewness	.	**Kurtosis**	.
Uncorrected SS	107811	**Corrected SS**	0
Coeff Variation	0	**Std Error Mean**	0

Basic Statistical Measures			
Location		**Variability**	
Mean	-99.0000	**Std Deviation**	0
Median	-99.0000	**Variance**	0
Mode	-99.0000	**Range**	0
		Interquartile Range	0

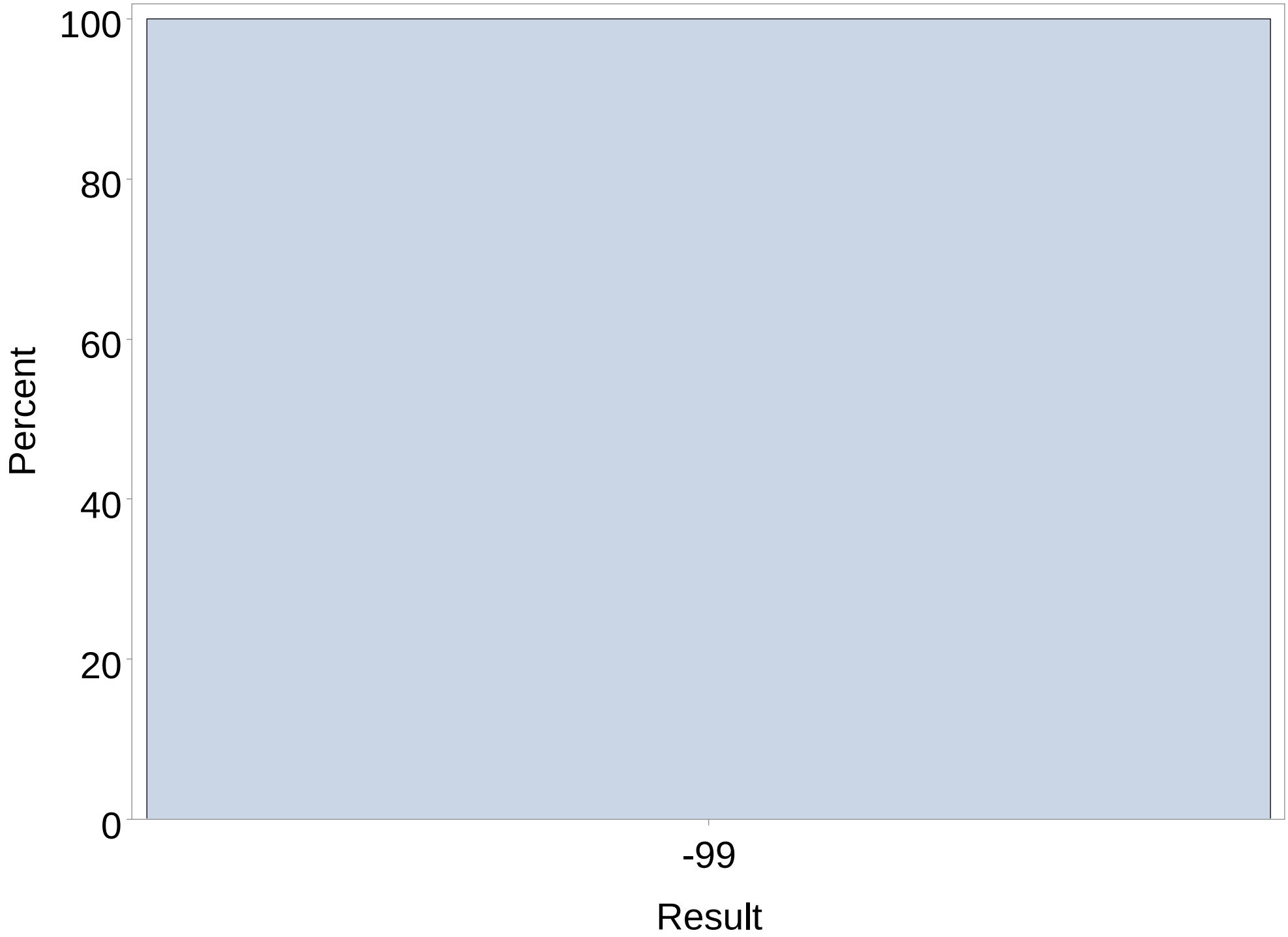
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	-5.5	**Pr >= |M|**	0.0010
Signed Rank	**S**	-33	**Pr >= |S|**	0.0010

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	-99
99%	-99
95%	-99
90%	-99
75% Q3	-99
50% Median	-99
25% Q1	-99
10%	-99
5%	-99
1%	-99
0% Min	-99

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99	56369	-99	56365
-99	56368	-99	56366
-99	56367	-99	56367
-99	56366	-99	56368
-99	56365	-99	56369


Parameter=OPD STATION=1
100
80
60
40
20
0
Percent
-99
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=2

Moments			
N	11	**Sum Weights**	11
Mean	-99	**Sum Observations**	-1089
Std Deviation	0	**Variance**	0
Skewness	.	**Kurtosis**	.
Uncorrected SS	107811	**Corrected SS**	0
Coeff Variation	0	**Std Error Mean**	0

Basic Statistical Measures			
Location		**Variability**	
Mean	-99.0000	**Std Deviation**	0
Median	-99.0000	**Variance**	0
Mode	-99.0000	**Range**	0
		Interquartile Range	0

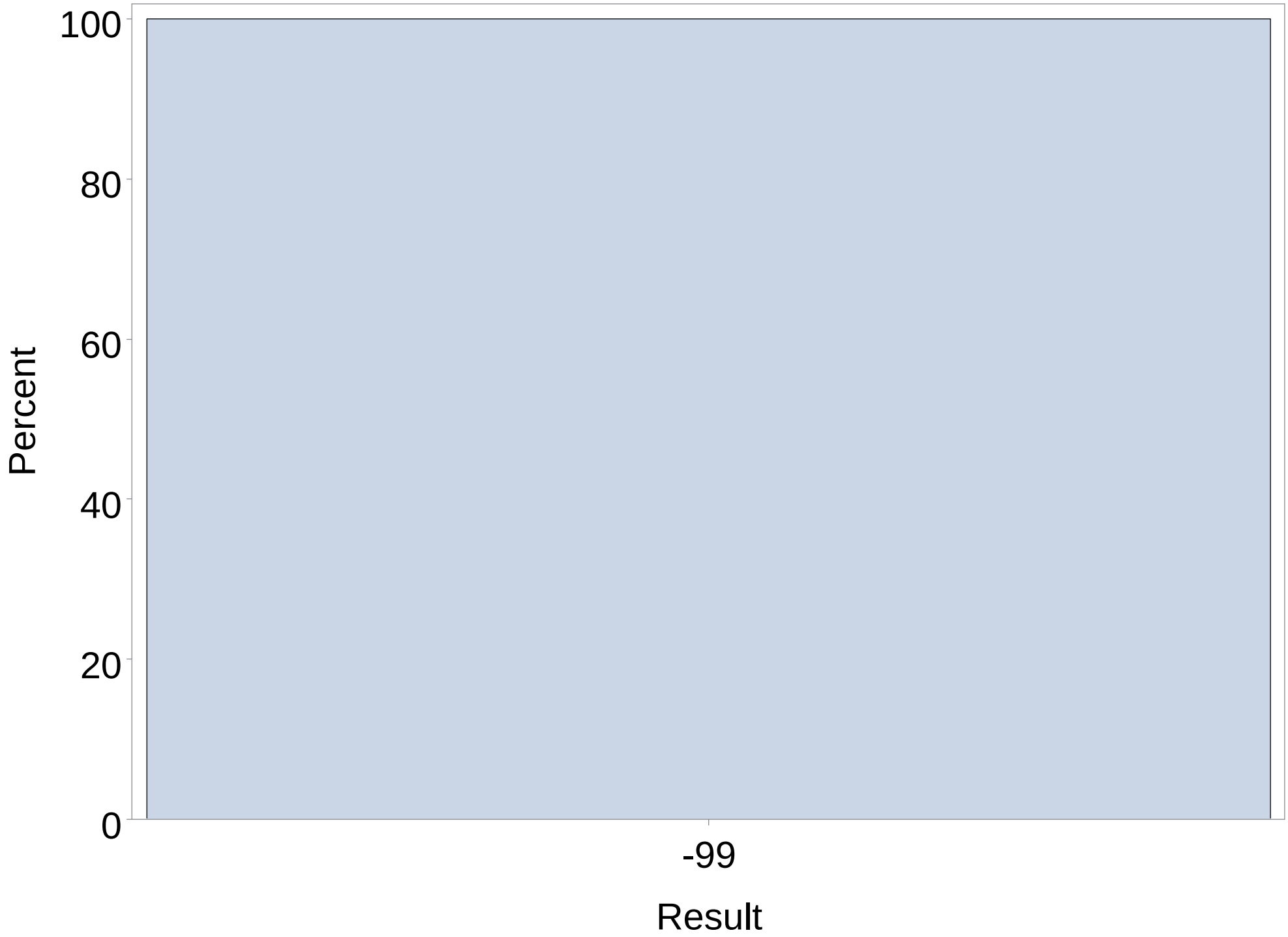
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	-5.5	**Pr >= |M|**	0.0010
Signed Rank	**S**	-33	**Pr >= |S|**	0.0010

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	-99
99%	-99
95%	-99
90%	-99
75% Q3	-99
50% Median	-99
25% Q1	-99
10%	-99
5%	-99
1%	-99
0% Min	-99

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99	56380	-99	56376
-99	56379	-99	56377
-99	56378	-99	56378
-99	56377	-99	56379
-99	56376	-99	56380


Parameter=OPD STATION=2
100
80
60
40
20
0
Percent
-99
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=3

Moments			
N	177	**Sum Weights**	177
Mean	0.42644068	**Sum Observations**	75.48
Std Deviation	13.162868	**Variance**	173.261095
Skewness	-7.4186678	**Kurtosis**	54.37056
Uncorrected SS	30526.1404	**Corrected SS**	30493.9527
Coeff Variation	3086.68209	**Std Error Mean**	0.98938175

Basic Statistical Measures			
Location		**Variability**	
Mean	0.426441	**Std Deviation**	13.16287
Median	1.900000	**Variance**	173.26109
Mode	1.300000	**Range**	112.00000
		Interquartile Range	1.32000

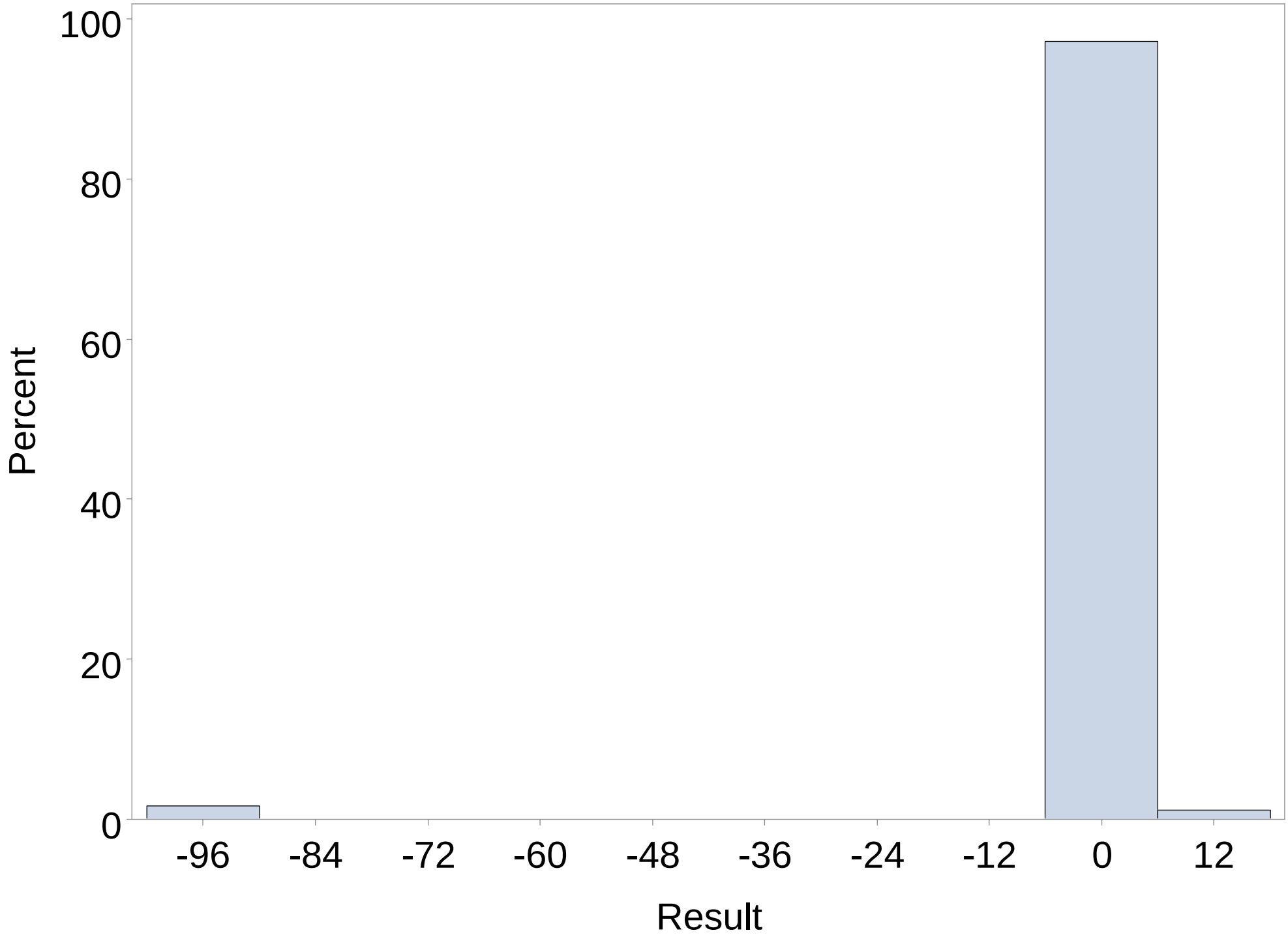
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.431017	**Pr > |t|**	0.6670
Sign	**M**	85.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7348.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.00
99%	11.00
95%	3.65
90%	3.30
75% Q3	2.62
50% Median	1.90
25% Q1	1.30
10%	1.07
5%	0.94
1%	-99.00
0% Min	-99.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.00	56557	4.27	56447
-99.00	56556	4.49	56505
-99.00	56549	4.59	56500
0.61	56422	11.00	56458
0.75	56437	13.00	56459


Parameter=OPD STATION=3
100
80
60
40
20
0
Percent
-96
-84
-72
-60
-48
-36
-24
-12
0
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=4

Moments			
N	177	**Sum Weights**	177
Mean	0.40542373	**Sum Observations**	71.76
Std Deviation	13.1292427	**Variance**	172.377014
Skewness	-7.4761768	**Kurtosis**	54.9070669
Uncorrected SS	30367.4476	**Corrected SS**	30338.3544
Coeff Variation	3238.40016	**Std Error Mean**	0.98685431

Basic Statistical Measures			
Location		**Variability**	
Mean	0.405424	**Std Deviation**	13.12924
Median	1.900000	**Variance**	172.37701
Mode	1.440000	**Range**	110.00000
		Interquartile Range	1.14000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

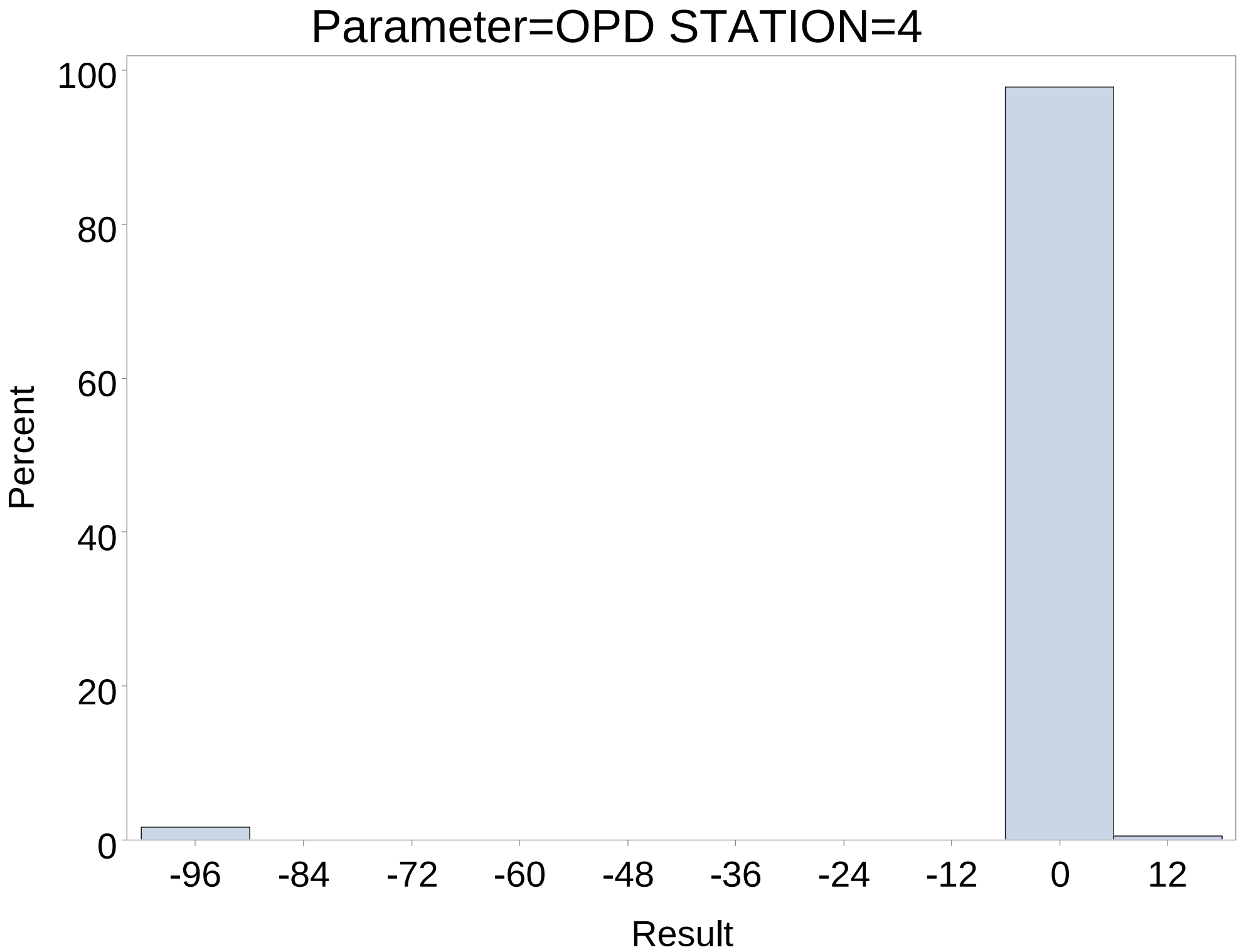
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.410824	**Pr > |t|**	0.6817
Sign	**M**	85.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7348.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.00
99%	4.20
95%	3.60
90%	3.20
75% Q3	2.57
50% Median	1.90
25% Q1	1.43
10%	1.14
5%	0.94
1%	-99.00
0% Min	-99.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.00	56734	3.87	56624
-99.00	56733	3.90	56692
-99.00	56726	4.19	56597
0.62	56599	4.20	56689
0.71	56641	11.00	56635


Parameter=OPD STATION=4
100
80
60
40
20
0
Percent
-96
-84
-72
-60
-48
-36
-24
-12
0
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=5

Moments			
N	176	**Sum Weights**	176
Mean	0.39267045	**Sum Observations**	69.11
Std Deviation	13.1650472	**Variance**	173.318467
Skewness	-7.4552801	**Kurtosis**	54.5881148
Uncorrected SS	30357.8691	**Corrected SS**	30330.7316
Coeff Variation	3352.69614	**Std Error Mean**	0.99235277

Basic Statistical Measures			
Location		**Variability**	
Mean	0.392670	**Std Deviation**	13.16505
Median	1.915000	**Variance**	173.31847
Mode	1.500000	**Range**	110.00000
		Interquartile Range	0.96500

Note: The mode displayed is the smallest of 3 modes with a count of 4.

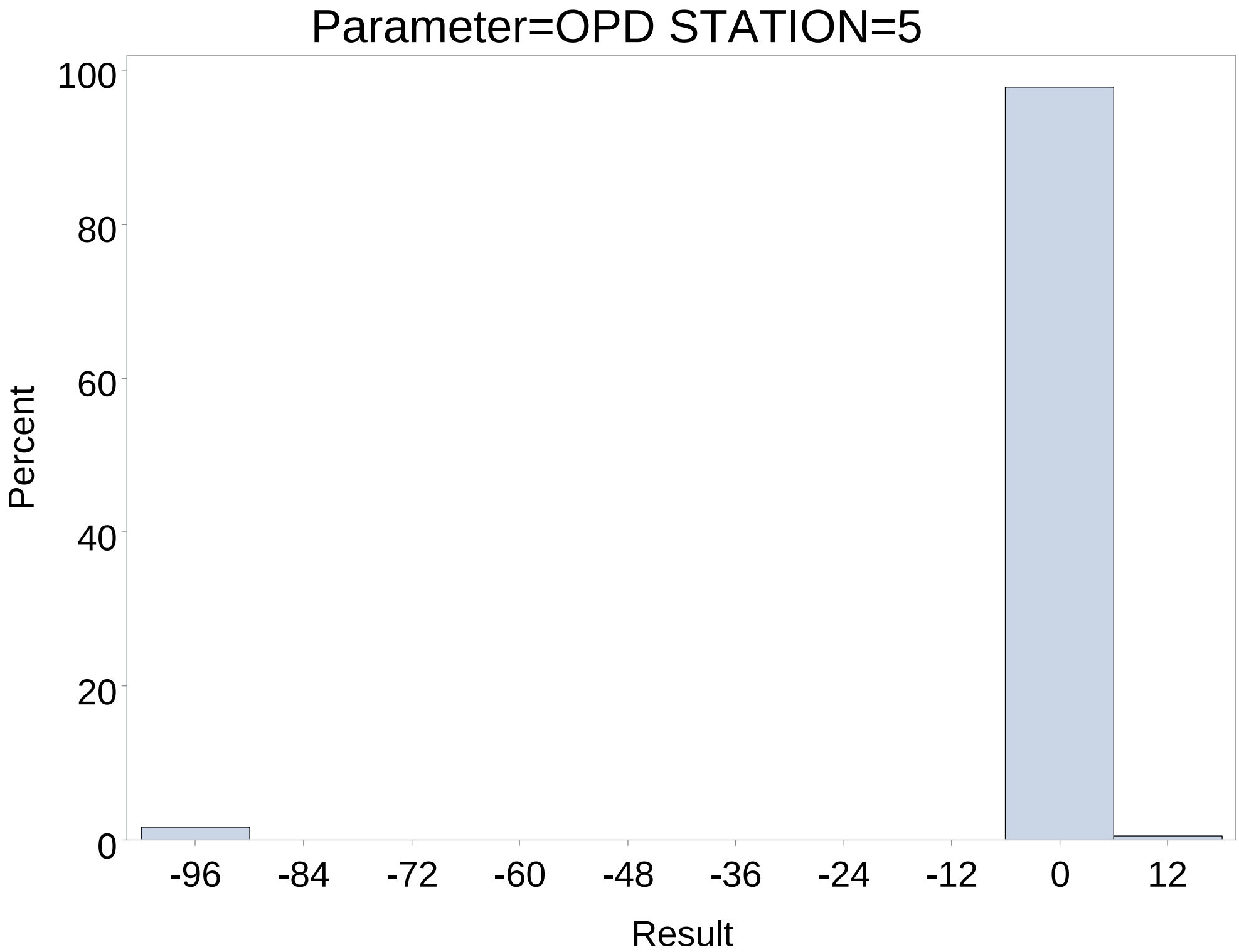
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.395696	**Pr > |t|**	0.6928
Sign	**M**	85	**Pr >= |M|**	<.0001
Signed Rank	**S**	7263	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.000
99%	4.640
95%	3.700
90%	3.100
75% Q3	2.455
50% Median	1.915
25% Q1	1.490
10%	1.170
5%	0.980
1%	-99.000
0% Min	-99.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.00	56910	4.00	56869
-99.00	56909	4.05	56904
-99.00	56902	4.30	56866
0.70	56776	4.64	56801
0.88	56779	11.00	56812


Parameter=OPD STATION=5
100
80
60
40
20
0
Percent
-96
-84
-72
-60
-48
-36
-24
-12
0
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=6

Moments			
N	175	**Sum Weights**	175
Mean	0.33034286	**Sum Observations**	57.81
Std Deviation	13.1953276	**Variance**	174.11667
Skewness	-7.432998	**Kurtosis**	54.2562194
Uncorrected SS	30315.3977	**Corrected SS**	30296.3006
Coeff Variation	3994.43405	**Std Error Mean**	0.99747301

Basic Statistical Measures			
Location		**Variability**	
Mean	0.330343	**Std Deviation**	13.19533
Median	1.900000	**Variance**	174.11667
Mode	1.300000	**Range**	110.00000
		Interquartile Range	1.04000

Note: The mode displayed is the smallest of 4 modes with a count of 5.

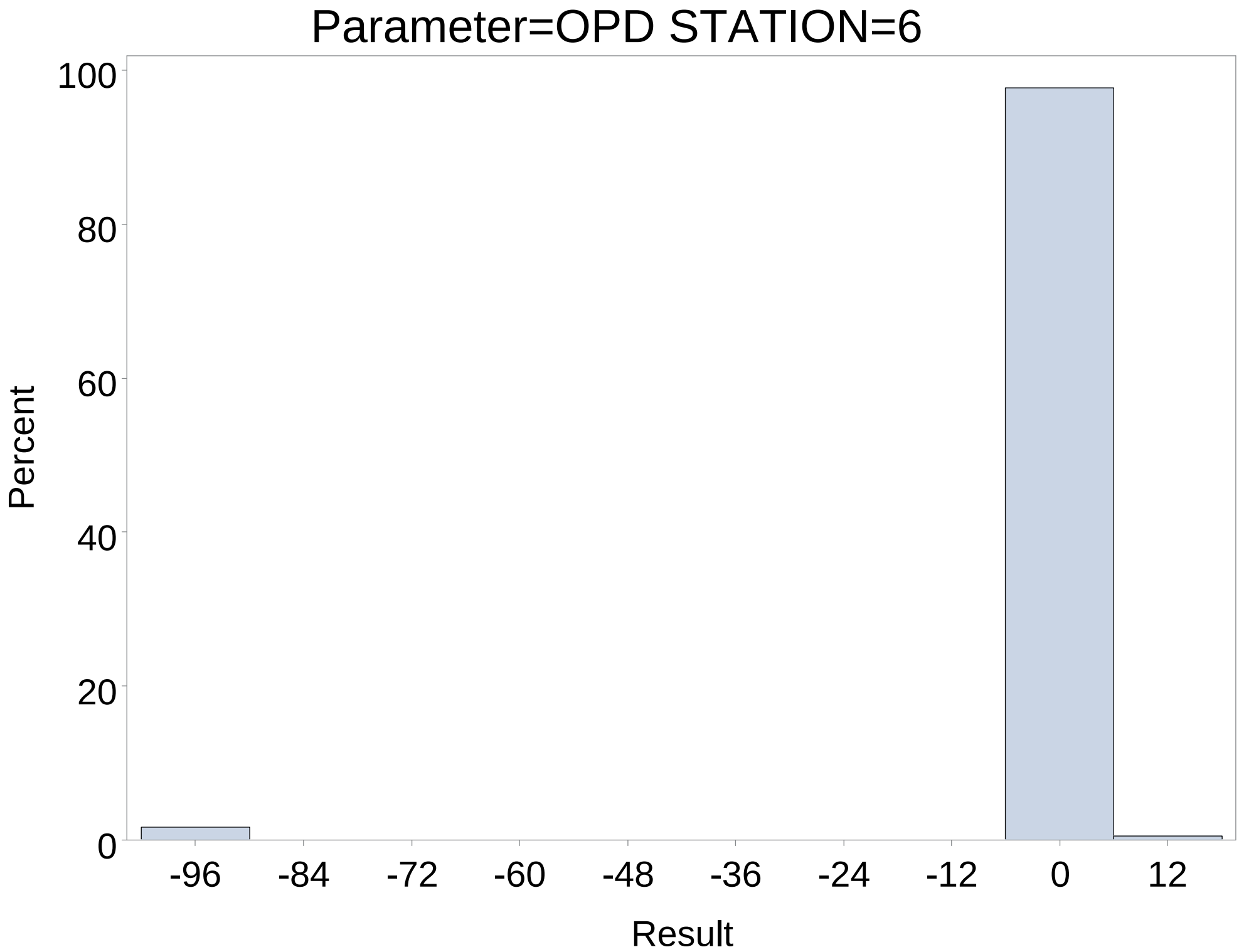
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.33118	**Pr > |t|**	0.7409
Sign	**M**	84.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7178	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	11.00
99%	4.80
95%	3.64
90%	3.10
75% Q3	2.40
50% Median	1.90
25% Q1	1.36
10%	1.14
5%	1.00
1%	-99.00
0% Min	-99.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.00	57085	3.80	57064
-99.00	57084	4.19	56977
-99.00	57077	4.70	57046
0.65	56952	4.80	57047
0.89	56955	11.00	56988


Parameter=OPD STATION=6
Percent
100
80
60
40
20
0
-96
-84
-72
-60
-48
-36
-24
-12
0
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=7

Moments			
N	175	**Sum Weights**	175
Mean	0.29028571	**Sum Observations**	50.8
Std Deviation	13.2155439	**Variance**	174.6506
Skewness	-7.3851641	**Kurtosis**	53.8195507
Uncorrected SS	30403.951	**Corrected SS**	30389.2045
Coeff Variation	4552.59878	**Std Error Mean**	0.99900122

Basic Statistical Measures			
Location		**Variability**	
Mean	0.290286	**Std Deviation**	13.21554
Median	1.700000	**Variance**	174.65060
Mode	1.400000	**Range**	112.00000
		Interquartile Range	0.99000

Note: The mode displayed is the smallest of 3 modes with a count of 4.

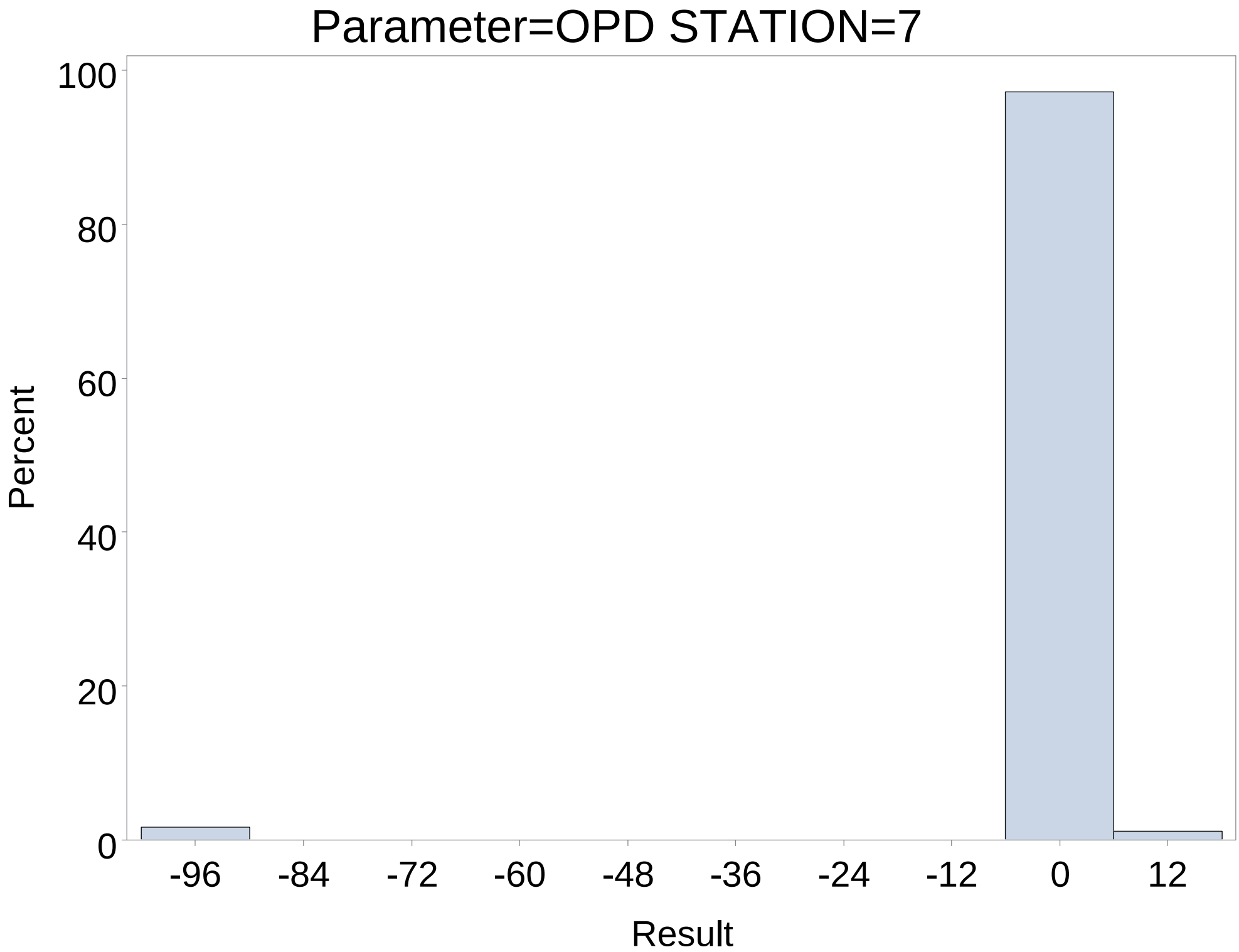
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.290576	**Pr > |t|**	0.7717
Sign	**M**	84.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7178	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.00
99%	11.00
95%	3.66
90%	3.00
75% Q3	2.30
50% Median	1.70
25% Q1	1.31
10%	1.12
5%	0.93
1%	-99.00
0% Min	-99.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.00	57260	4.00	57218
-99.00	57259	4.05	57152
-99.00	57252	4.20	57221
0.61	57127	11.00	57163
0.81	57169	13.00	57164


Parameter=OPD STATION=7
100
80
60
40
20
0
Percent
-96
-84
-72
-60
-48
-36
-24
-12
0
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=8

Moments			
N	174	**Sum Weights**	174
Mean	0.19591954	**Sum Observations**	34.09
Std Deviation	13.2472761	**Variance**	175.490324
Skewness	-7.3534478	**Kurtosis**	53.3985008
Uncorrected SS	30366.5049	**Corrected SS**	30359.826
Coeff Variation	6761.59002	**Std Error Mean**	1.00427341

Basic Statistical Measures			
Location		**Variability**	
Mean	0.195920	**Std Deviation**	13.24728
Median	1.600000	**Variance**	175.49032
Mode	1.300000	**Range**	112.00000
		Interquartile Range	1.06000

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

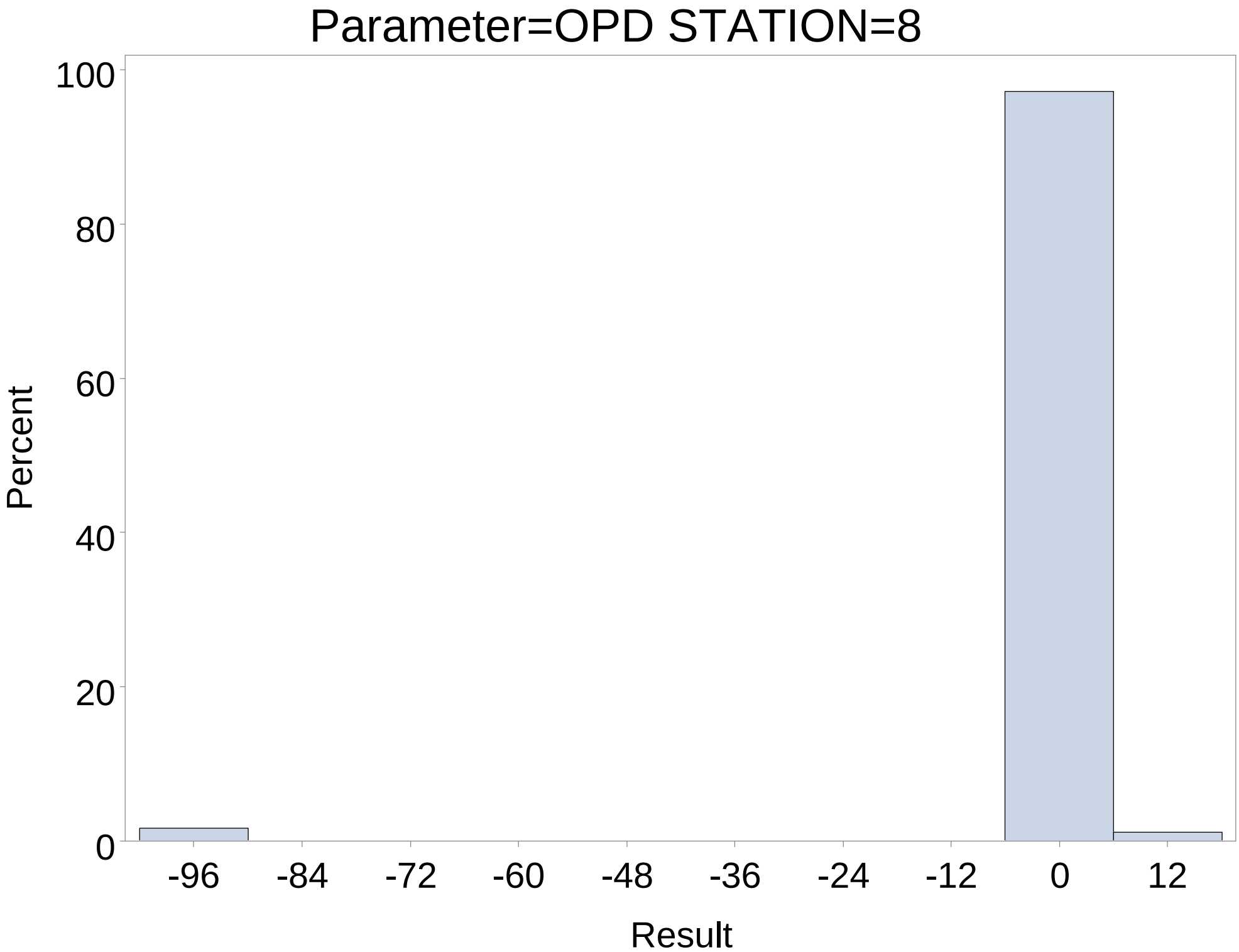
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.195086	**Pr > |t|**	0.8456
Sign	**M**	84	**Pr >= |M|**	<.0001
Signed Rank	**S**	7093.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.00
99%	11.00
95%	3.70
90%	3.15
75% Q3	2.24
50% Median	1.60
25% Q1	1.18
10%	0.98
5%	0.82
1%	-99.00
0% Min	-99.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.00	57434	4.5	57393
-99.00	57433	4.5	57394
-99.00	57426	4.7	57390
0.65	57302	11.0	57336
0.77	57363	13.0	57337


Parameter=OPD STATION=8
100
80
60
40
20
0
Percent
-96
-84
-72
-60
-48
-36
-24
-12
0
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=9

Moments			
N	173	**Sum Weights**	173
Mean	0.28456647	**Sum Observations**	49.23
Std Deviation	13.2871711	**Variance**	176.548917
Skewness	-7.3521892	**Kurtosis**	53.2573638
Uncorrected SS	30380.4229	**Corrected SS**	30366.4137
Coeff Variation	4669.26794	**Std Error Mean**	1.01020491

Basic Statistical Measures			
Location		**Variability**	
Mean	0.284566	**Std Deviation**	13.28717
Median	1.720000	**Variance**	176.54892
Mode	1.120000	**Range**	112.00000
		Interquartile Range	1.06000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

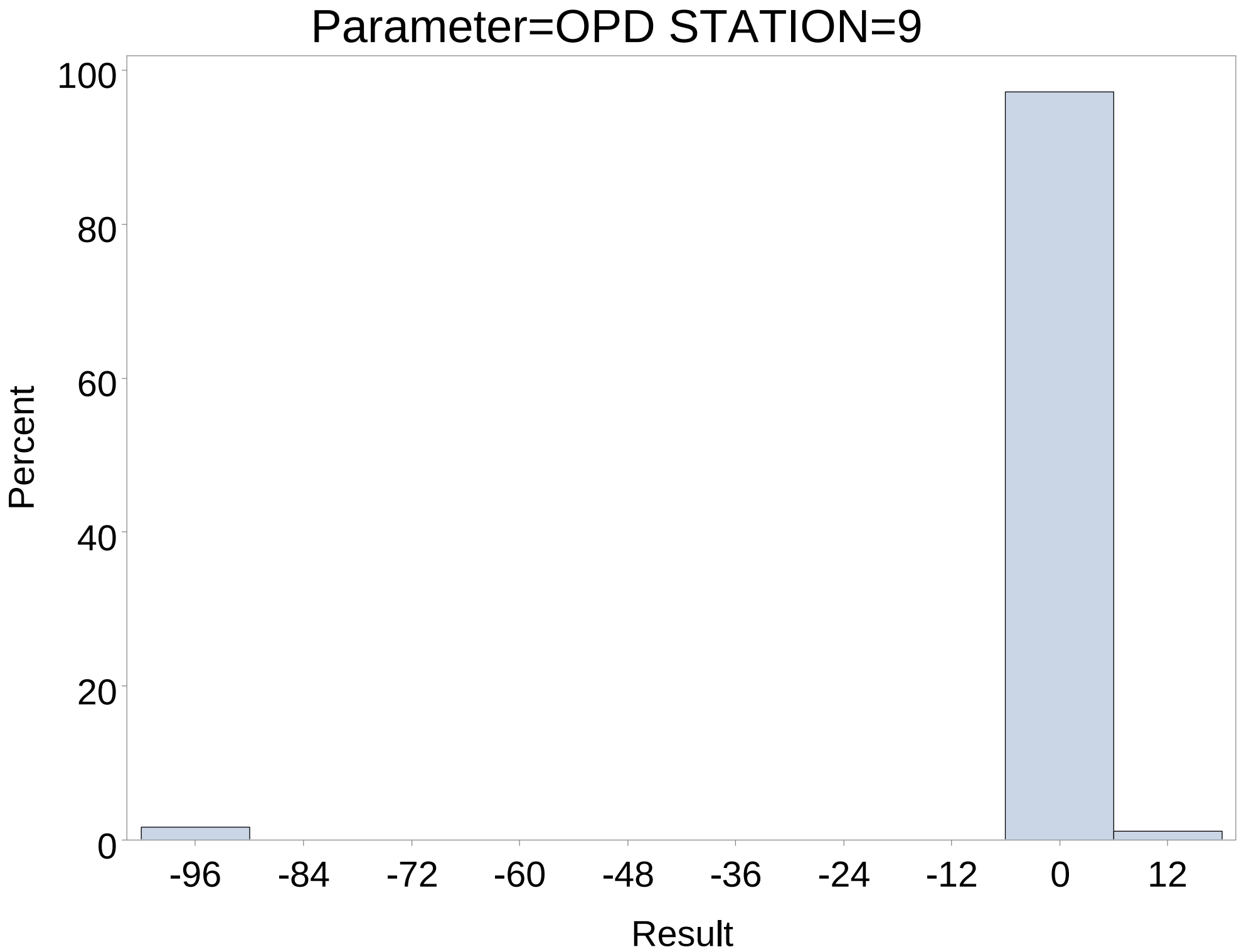
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	0.281692	**Pr > |t|**	0.7785
Sign	**M**	83.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	7009.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.00
99%	6.50
95%	3.77
90%	3.18
75% Q3	2.33
50% Median	1.72
25% Q1	1.27
10%	1.03
5%	0.90
1%	-99.00
0% Min	-99.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=OPD STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.00	57607	5.01	57552
-99.00	57606	5.30	57569
-99.00	57599	5.40	57564
0.79	57489	6.50	57585
0.80	57479	13.00	57511


Parameter=OPD STATION=9
100
80
60
40
20
0
Percent
-96
-84
-72
-60
-48
-36
-24
-12
0
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=1

Moments			
N	103	**Sum Weights**	103
Mean	246.241748	**Sum Observations**	25362.9
Std Deviation	119.006145	**Variance**	14162.4627
Skewness	-0.3502514	**Kurtosis**	-0.7178298
Uncorrected SS	7689976.01	**Corrected SS**	1444571.19
Coeff Variation	48.3289883	**Std Error Mean**	11.7260239

Basic Statistical Measures			
Location		**Variability**	
Mean	246.2417	**Std Deviation**	119.00615
Median	257.0000	**Variance**	14162
Mode	131.0000	**Range**	525.00000
		Interquartile Range	207.00000

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

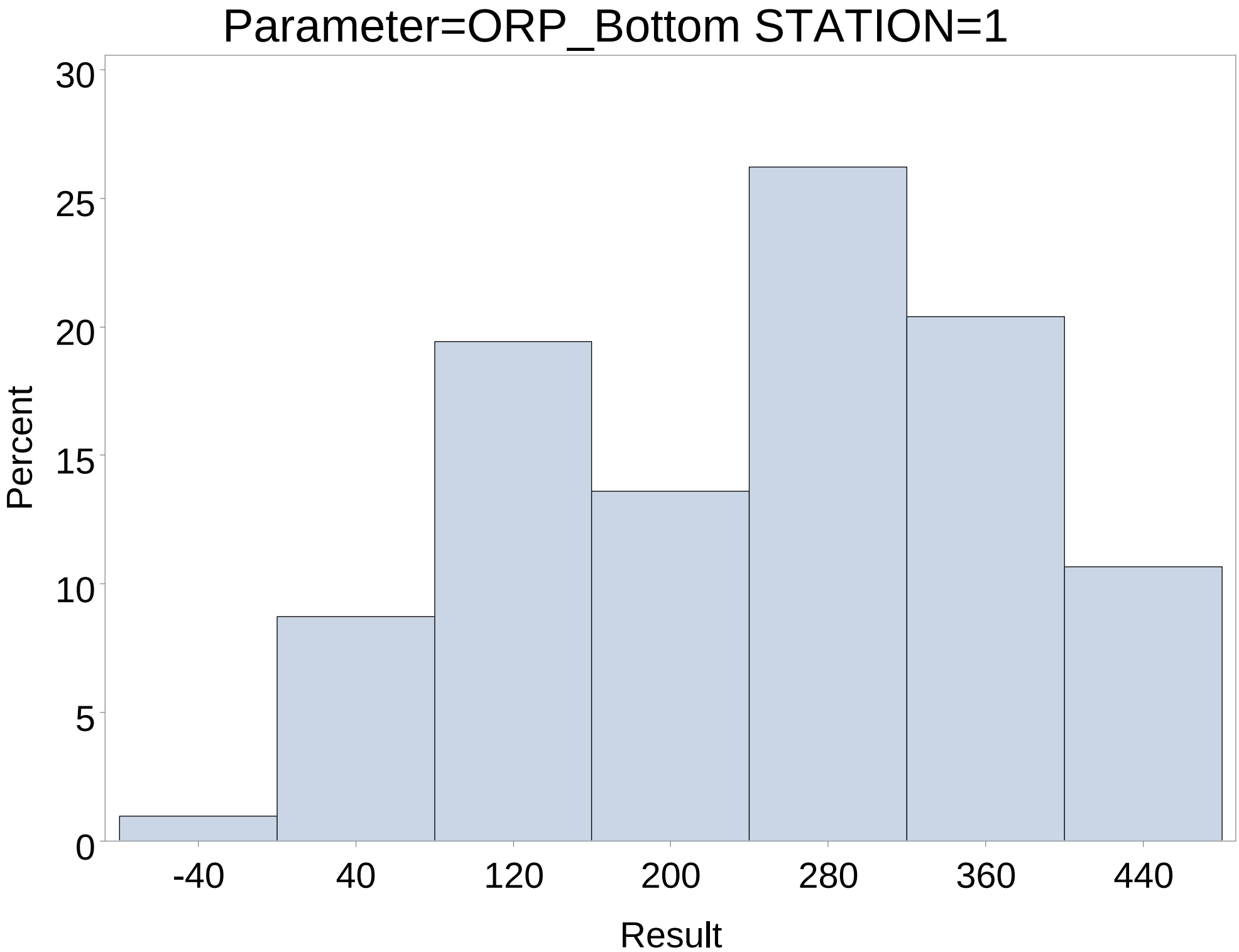
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.99959	**Pr > |t|**	<.0001
Sign	**M**	50.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2668.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	450.0
99%	439.0
95%	423.0
90%	402.0
75% Q3	344.0
50% Median	257.0
25% Q1	137.0
10%	94.0
5%	46.5
1%	12.2
0% Min	-75.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-75.0	57702	423	57642
12.2	57684	432	57635
15.5	57679	435	57636
41.0	57677	439	57643
42.0	57686	450	57620


Parameter=ORP_Bottom STATION=1
Percent
30
25
20
15
10
5
0
-40
40
120
200
280
360
440
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=2

Moments			
N	102	**Sum Weights**	102
Mean	217.757843	**Sum Observations**	22211.3
Std Deviation	124.401041	**Variance**	15475.6191
Skewness	-0.5509405	**Kurtosis**	-0.5849997
Uncorrected SS	6399722.31	**Corrected SS**	1563037.53
Coeff Variation	57.1281565	**Std Error Mean**	12.3175385

Basic Statistical Measures			
Location		**Variability**	
Mean	217.7578	**Std Deviation**	124.40104
Median	251.5000	**Variance**	15476
Mode	70.0000	**Range**	502.00000
		Interquartile Range	198.00000

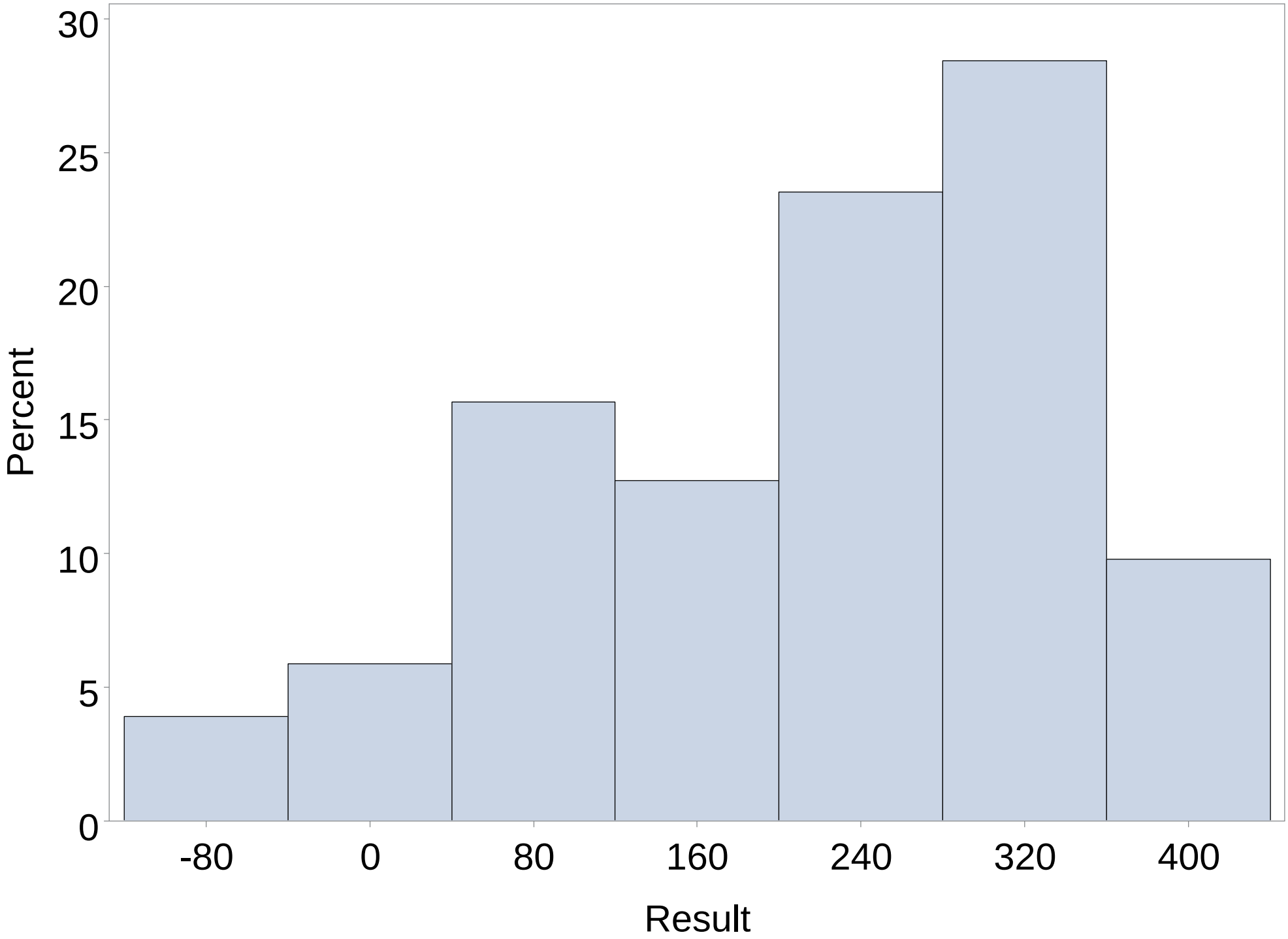
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.67868	**Pr > |t|**	<.0001
Sign	**M**	46.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2519	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	420.0
99%	406.0
95%	382.0
90%	359.0
75% Q3	317.0
50% Median	251.5
25% Q1	119.0
10%	55.0
5%	5.9
1%	-81.0
0% Min	-82.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-82.0	57739	390	57726
-81.0	57775	393	57712
-79.8	57796	401	57721
-42.7	57809	406	57765
0.0	57763	420	57746


Parameter=ORP_Bottom STATION=2
Percent
30
25
20
15
10
5
0
-80
0
80
160
240
320
400
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=3

Moments			
N	102	**Sum Weights**	102
Mean	239.684314	**Sum Observations**	24447.8
Std Deviation	113.485306	**Variance**	12878.9146
Skewness	-0.436093	**Kurtosis**	-0.4563212
Uncorrected SS	7160524.54	**Corrected SS**	1300770.37
Coeff Variation	47.3478234	**Std Error Mean**	11.2367197

Basic Statistical Measures			
Location		**Variability**	
Mean	239.6843	**Std Deviation**	113.48531
Median	265.5000	**Variance**	12879
Mode	304.0000	**Range**	539.00000
		Interquartile Range	165.00000

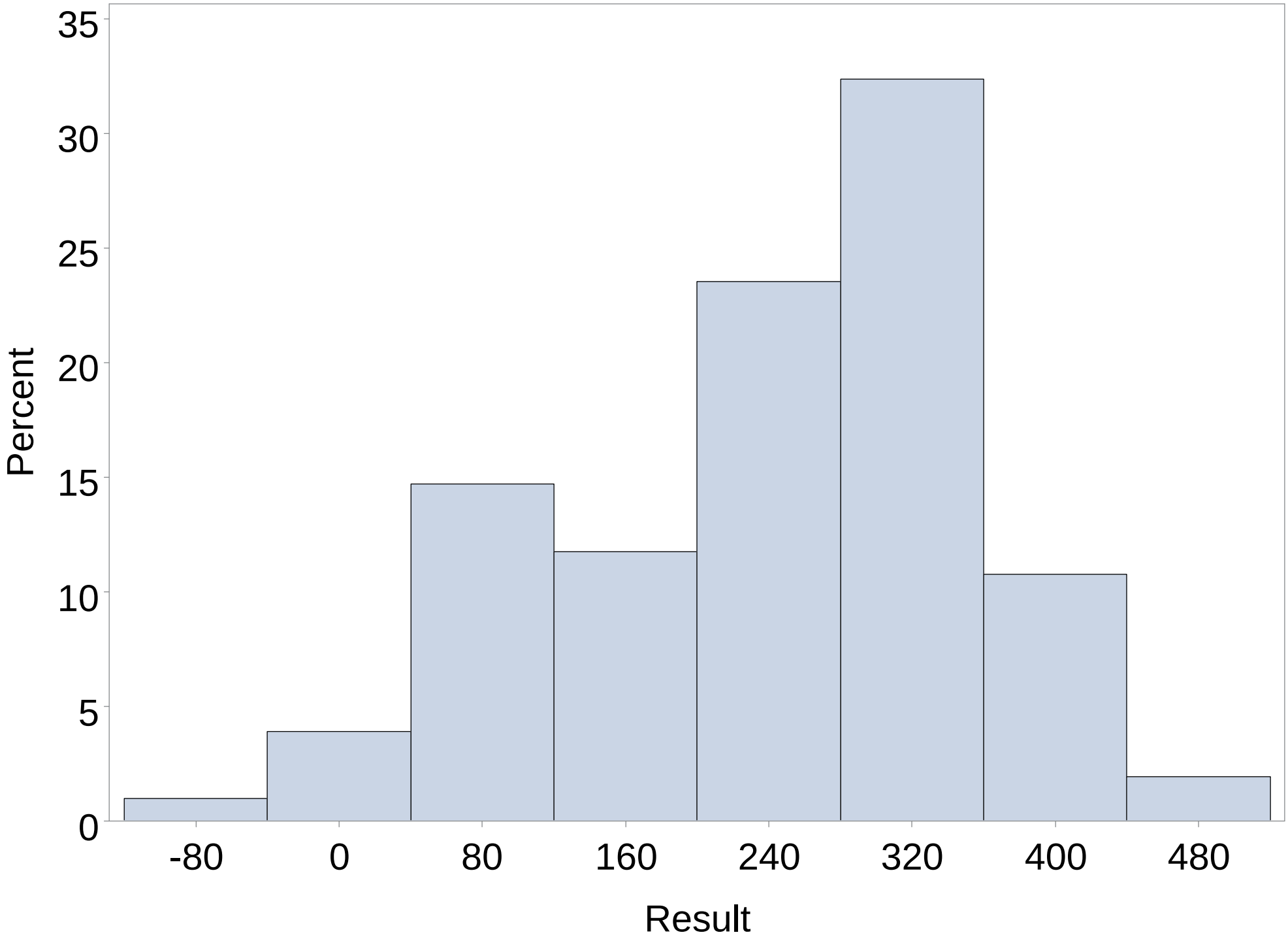
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.33045	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2614	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	451.0
99%	442.0
95%	410.0
90%	373.0
75% Q3	314.0
50% Median	265.5
25% Q1	149.0
10%	79.5
5%	54.1
1%	26.4
0% Min	-88.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-88.0	57830	411	57851
26.4	57887	413	57823
29.0	57889	439	57867
31.0	57891	442	57848
33.0	57884	451	57839


Parameter=ORP_Bottom STATION=3
Percent
35
30
25
20
15
10
5
0
-80
0
80
160
240
320
400
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=4

Moments			
N	102	**Sum Weights**	102
Mean	240.101961	**Sum Observations**	24490.4
Std Deviation	107.264416	**Variance**	11505.6548
Skewness	-0.1982004	**Kurtosis**	-0.9111487
Uncorrected SS	7042264.2	**Corrected SS**	1162071.14
Coeff Variation	44.6745271	**Std Error Mean**	10.6207598

Basic Statistical Measures			
Location		**Variability**	
Mean	240.1020	**Std Deviation**	107.26442
Median	260.5000	**Variance**	11506
Mode	97.0000	**Range**	444.50000
		Interquartile Range	177.00000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

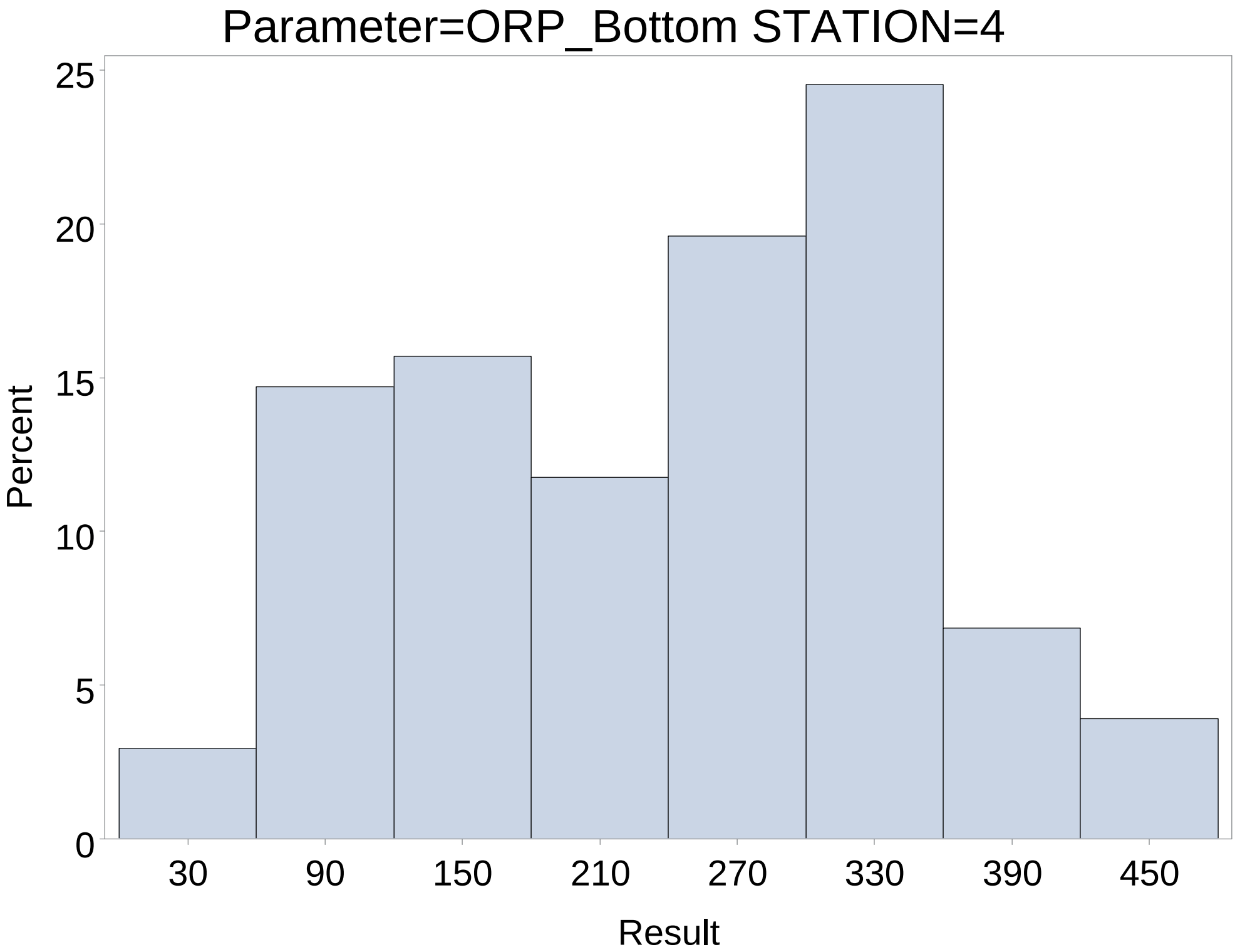
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.60685	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	462.0
99%	437.0
95%	411.0
90%	363.0
75% Q3	323.0
50% Median	260.5
25% Q1	146.0
10%	90.3
5%	71.0
1%	25.1
0% Min	17.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17.5	57989	413	57924
25.1	57988	420	57916
34.9	57990	432	57958
60.0	57985	437	57950
62.0	57931	462	57927


Parameter=ORP_Bottom STATION=4
Percent
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=5

Moments			
N	103	**Sum Weights**	103
Mean	246.229126	**Sum Observations**	25361.6
Std Deviation	101.048699	**Variance**	10210.8395
Skewness	-0.1552845	**Kurtosis**	-0.7980579
Uncorrected SS	7286270.24	**Corrected SS**	1041505.63
Coeff Variation	41.0384833	**Std Error Mean**	9.95662415

Basic Statistical Measures			
Location		**Variability**	
Mean	246.2291	**Std Deviation**	101.04870
Median	261.0000	**Variance**	10211
Mode	307.0000	**Range**	418.10000
		Interquartile Range	159.00000

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

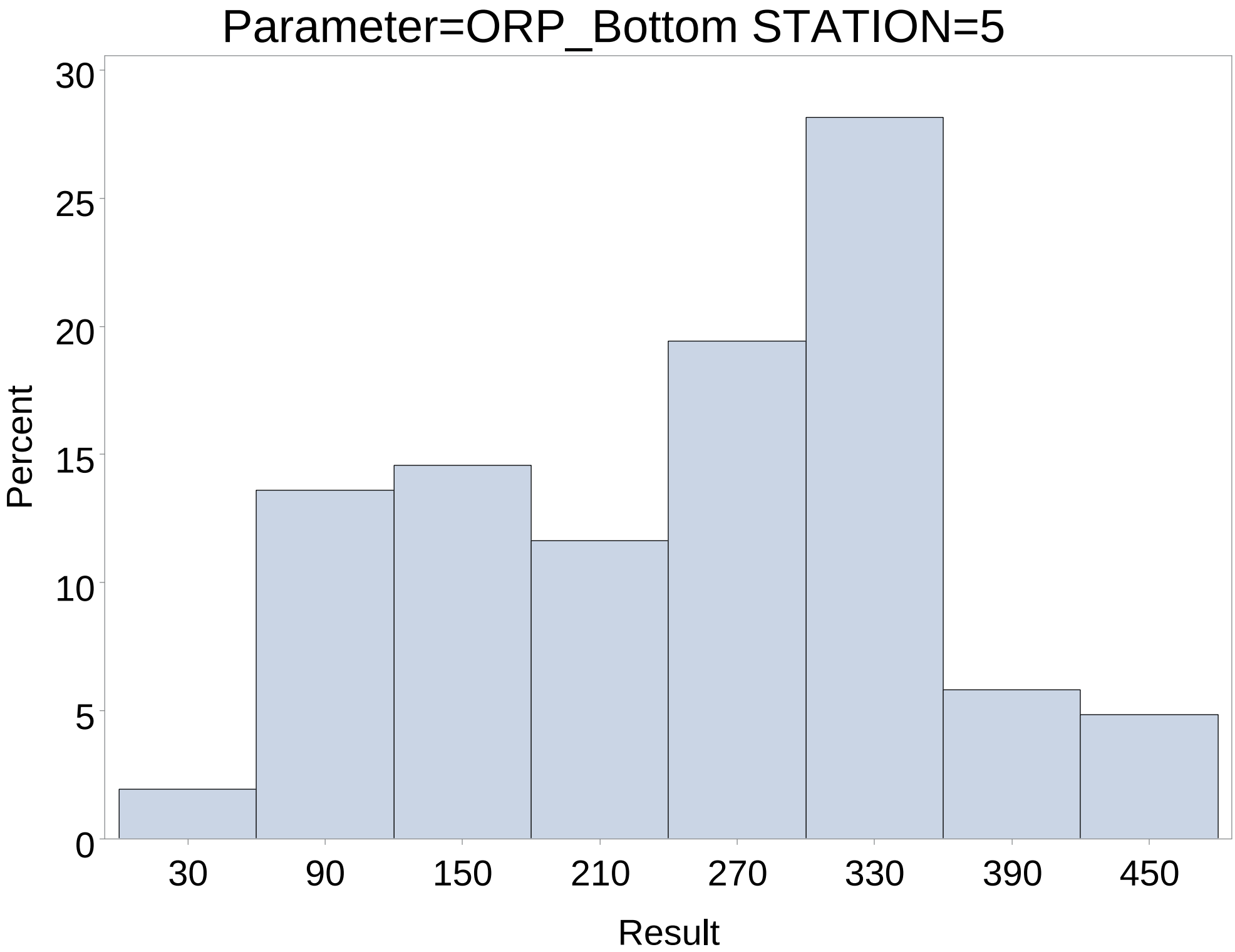
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.73018	**Pr > |t|**	<.0001
Sign	**M**	51.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2678	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	463.0
99%	445.0
95%	397.0
90%	364.0
75% Q3	316.0
50% Median	261.0
25% Q1	157.0
10%	97.0
5%	82.1
1%	52.8
0% Min	44.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
44.9	58092	425	58018
52.8	58091	435	58061
62.0	58095	438	58046
72.0	58088	445	58053
75.0	58066	463	58029


Parameter=ORP_Bottom STATION=5
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=6

Moments			
N	102	**Sum Weights**	102
Mean	250.39902	**Sum Observations**	25540.7
Std Deviation	103.704707	**Variance**	10754.6662
Skewness	0.15920801	**Kurtosis**	0.17665771
Uncorrected SS	7481587.53	**Corrected SS**	1086221.29
Coeff Variation	41.4157799	**Std Error Mean**	10.2682961

Basic Statistical Measures			
Location		**Variability**	
Mean	250.3990	**Std Deviation**	103.70471
Median	263.1000	**Variance**	10755
Mode	309.0000	**Range**	548.40000
		Interquartile Range	152.00000

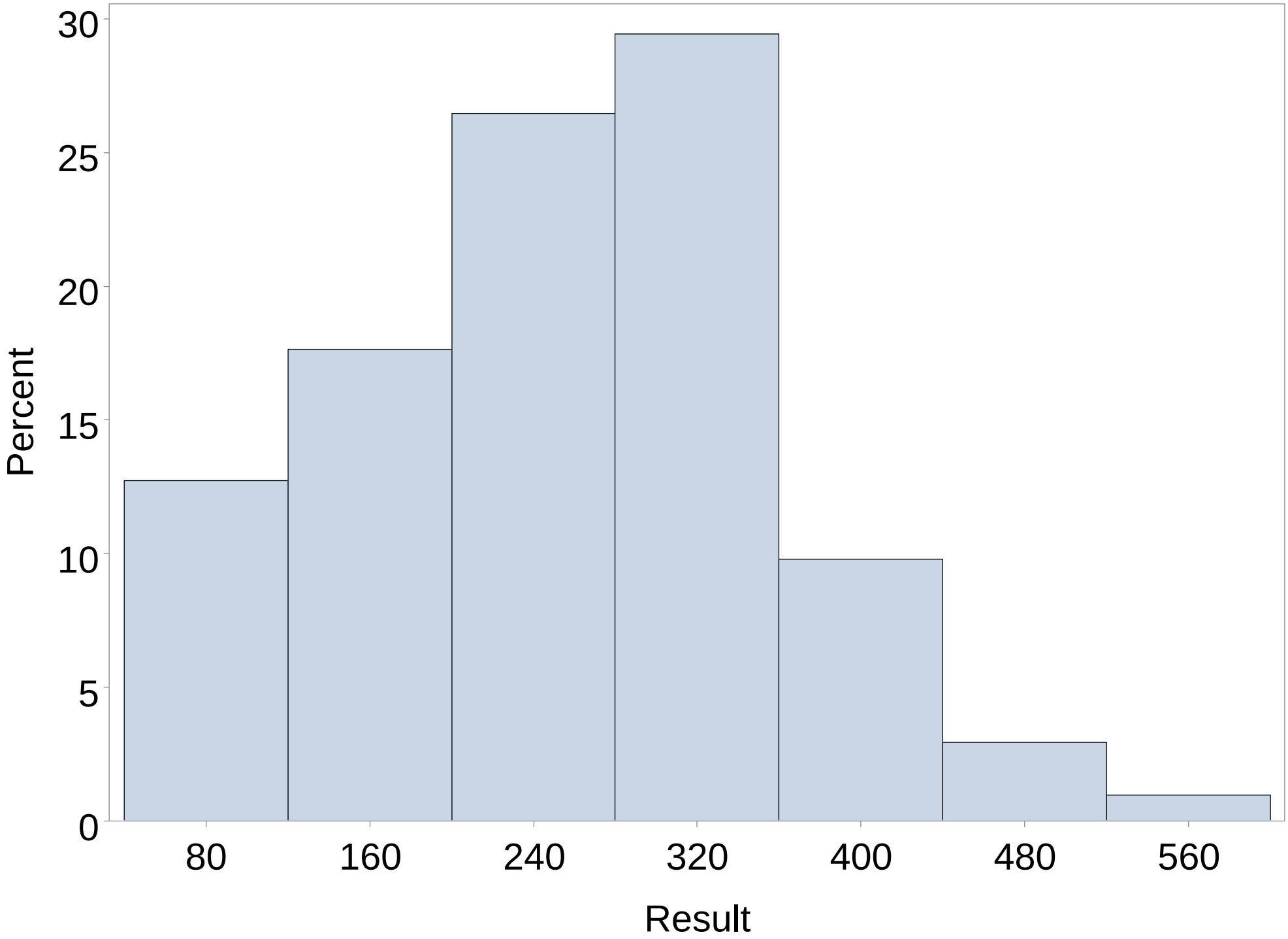
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.38564	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	593.0
99%	457.0
95%	418.0
90%	376.0
75% Q3	309.0
50% Median	263.1
25% Q1	157.0
10%	102.0
5%	77.0
1%	57.8
0% Min	44.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
44.6	58194	432	58148
57.8	58193	444	58155
65.9	58195	445	58163
66.0	58197	457	58132
75.0	58190	593	58140


Parameter=ORP_Bottom STATION=6
Percent
30
25
20
15
10
5
0
80
160
240
320
400
480
560
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=7

Moments			
N	102	**Sum Weights**	102
Mean	243.612745	**Sum Observations**	24848.5
Std Deviation	92.1553947	**Variance**	8492.61677
Skewness	-0.144991	**Kurtosis**	-0.5001629
Uncorrected SS	6911165.59	**Corrected SS**	857754.293
Coeff Variation	37.8286426	**Std Error Mean**	9.12474376

Basic Statistical Measures			
Location		**Variability**	
Mean	243.6127	**Std Deviation**	92.15539
Median	261.6500	**Variance**	8493
Mode	142.0000	**Range**	388.50000
		Interquartile Range	128.00000

Note: The mode displayed is the smallest of 12 modes with a count of 2.

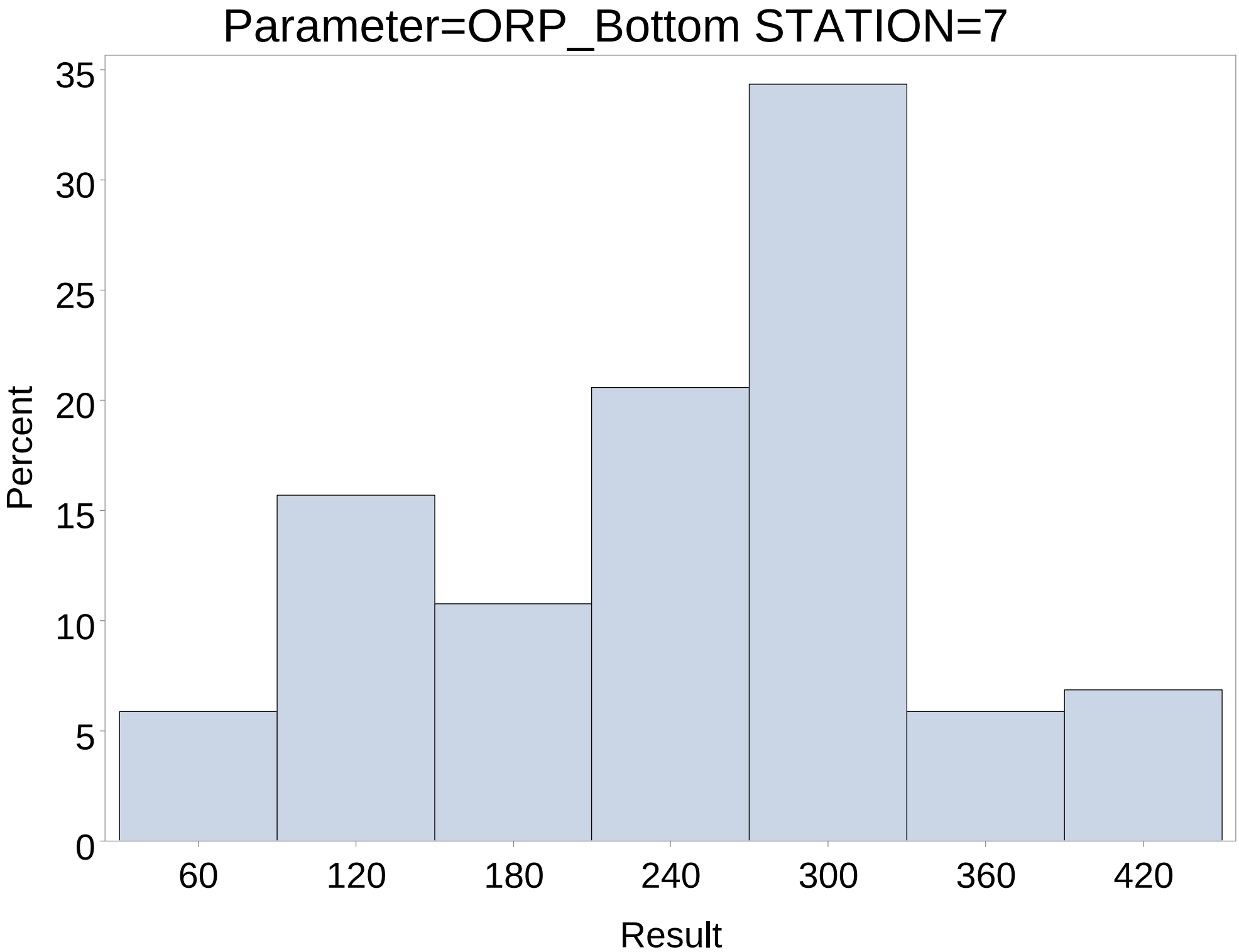
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.69804	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	438.00
99%	432.00
95%	403.00
90%	358.00
75% Q3	298.00
50% Median	261.65
25% Q1	170.00
10%	112.00
5%	85.00
1%	60.10
0% Min	49.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
49.5	58296	410	58250
60.1	58295	420	58223
69.2	58297	421	58265
70.0	58299	432	58242
82.0	58270	438	58234


Parameter=ORP_Bottom STATION=7
Percent
35
30
25
20
15
10
5
0
60
120
180
240
300
360
420
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=8

Moments			
N	102	**Sum Weights**	102
Mean	241.581373	**Sum Observations**	24641.3
Std Deviation	91.6243415	**Variance**	8395.01995
Skewness	-0.0462112	**Kurtosis**	-0.5042302
Uncorrected SS	6800776.09	**Corrected SS**	847897.015
Coeff Variation	37.9269066	**Std Error Mean**	9.07216166

Basic Statistical Measures			
Location		**Variability**	
Mean	241.5814	**Std Deviation**	91.62434
Median	256.4500	**Variance**	8395
Mode	280.0000	**Range**	403.90000
		Interquartile Range	131.10000

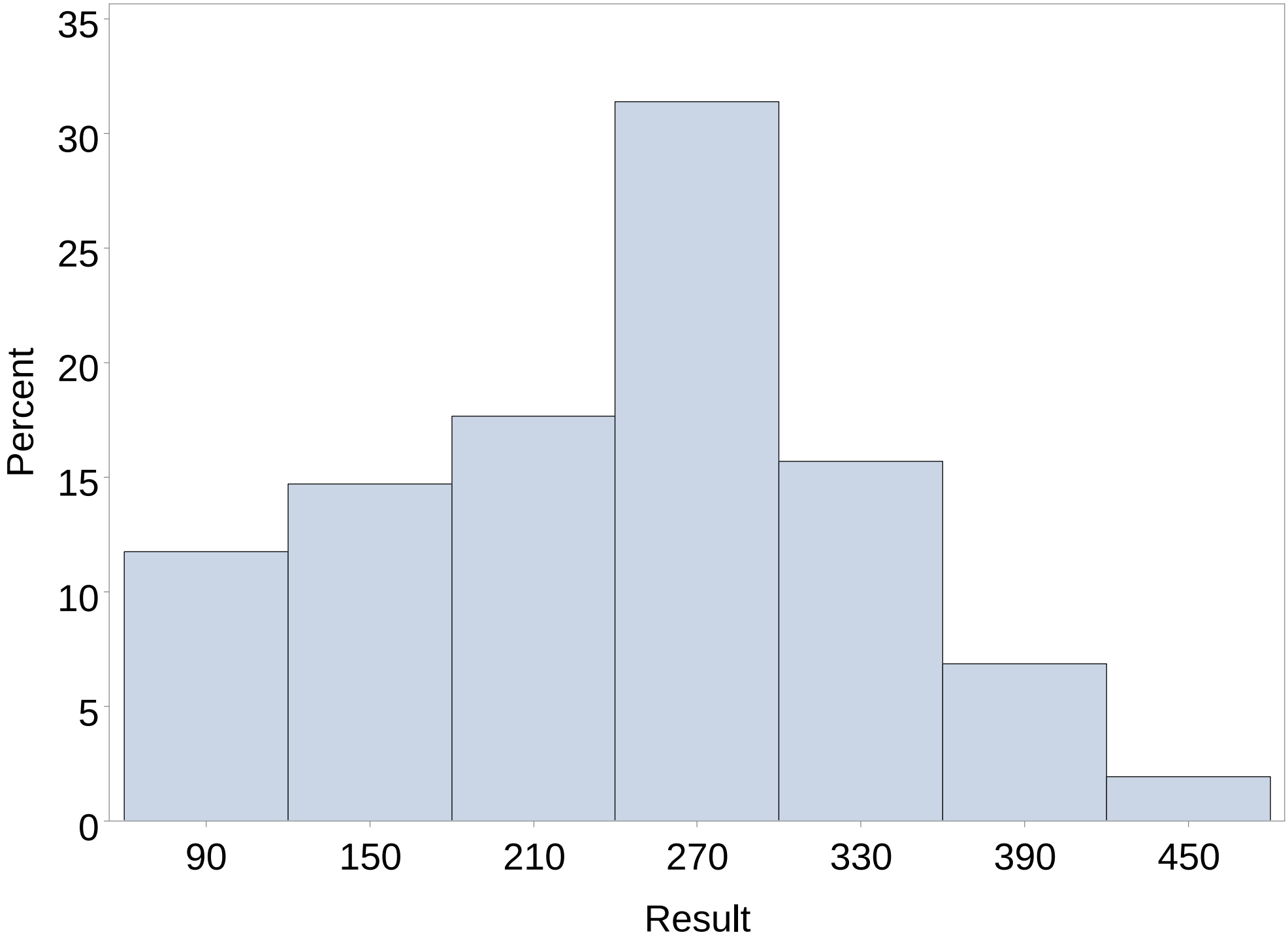
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.62887	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	466.00
99%	448.00
95%	381.00
90%	348.20
75% Q3	297.00
50% Median	256.45
25% Q1	165.90
10%	116.00
5%	85.00
1%	62.70
0% Min	62.10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
62.1	58398	405	58330
62.7	58399	413	58325
71.4	58397	413	58336
76.0	58401	448	58367
80.0	58372	466	58359


Parameter=ORP_Bottom STATION=8
Percent
35
30
25
20
15
10
5
0
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=9

Moments			
N	102	**Sum Weights**	102
Mean	238.964706	**Sum Observations**	24374.4
Std Deviation	86.822315	**Variance**	7538.11439
Skewness	-0.1510193	**Kurtosis**	-0.4084086
Uncorrected SS	6585970.88	**Corrected SS**	761349.553
Coeff Variation	36.3326939	**Std Error Mean**	8.59669019

Basic Statistical Measures			
Location		**Variability**	
Mean	238.9647	**Std Deviation**	86.82232
Median	261.0000	**Variance**	7538
Mode	267.0000	**Range**	380.90000
		Interquartile Range	119.80000

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

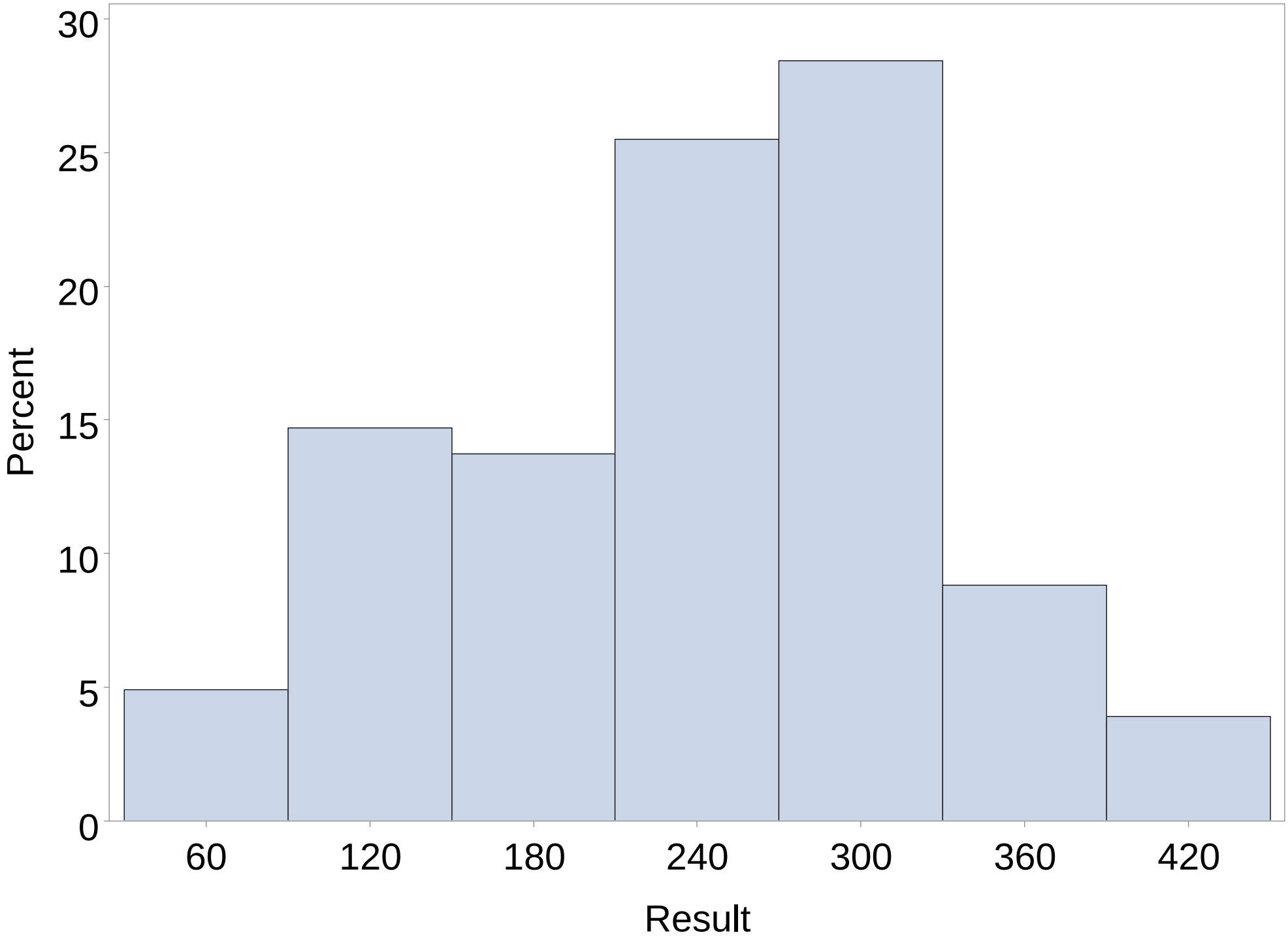
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.79729	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	442.0
99%	430.0
95%	366.0
90%	336.4
75% Q3	289.0
50% Median	261.0
25% Q1	169.2
10%	121.0
5%	94.0
1%	62.0
0% Min	61.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
61.1	58500	371	58478
62.0	58493	405	58438
68.7	58499	423	58427
79.1	58501	430	58461
85.0	58474	442	58469


Parameter=ORP_Bottom STATION=9
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=10

Moments			
N	104	**Sum Weights**	104
Mean	237.370192	**Sum Observations**	24686.5
Std Deviation	122.365434	**Variance**	14973.2994
Skewness	-0.2937183	**Kurtosis**	-0.4262172
Uncorrected SS	7402089.09	**Corrected SS**	1542249.84
Coeff Variation	51.5504633	**Std Error Mean**	11.998918

Basic Statistical Measures			
Location		**Variability**	
Mean	237.3702	**Std Deviation**	122.36543
Median	256.0000	**Variance**	14973
Mode	236.0000	**Range**	587.00000
		Interquartile Range	184.50000

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

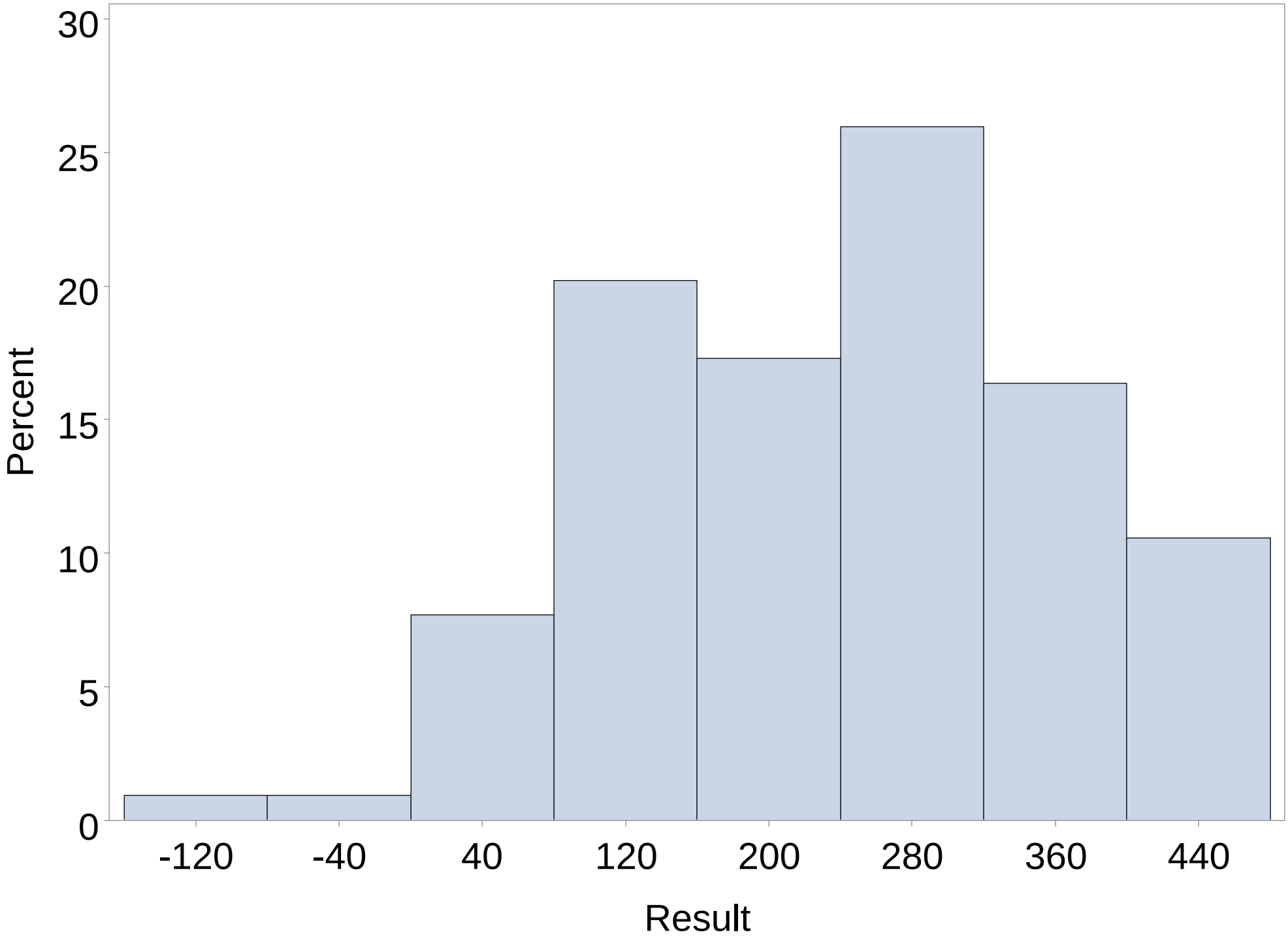
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.78263	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2707	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	467.0
99%	447.0
95%	435.0
90%	403.0
75% Q3	322.0
50% Median	256.0
25% Q1	137.5
10%	80.0
5%	35.0
1%	-27.0
0% Min	-120.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-120.0	58630	435	58564
-27.0	58546	437	58567
19.0	58592	447	58529
29.6	58605	447	58530
32.0	58603	467	58541


Parameter=ORP_Bottom STATION=10
Percent
30
25
20
15
10
5
0
-120
-40
40
120
200
280
360
440
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=11

Moments			
N	101	**Sum Weights**	101
Mean	233.606931	**Sum Observations**	23594.3
Std Deviation	110.627198	**Variance**	12238.3769
Skewness	-0.3667833	**Kurtosis**	0.03817597
Uncorrected SS	6735629.69	**Corrected SS**	1223837.69
Coeff Variation	47.3561282	**Std Error Mean**	11.0078176

Basic Statistical Measures			
Location		**Variability**	
Mean	233.6069	**Std Deviation**	110.62720
Median	254.1000	**Variance**	12238
Mode	292.0000	**Range**	589.00000
		Interquartile Range	160.00000

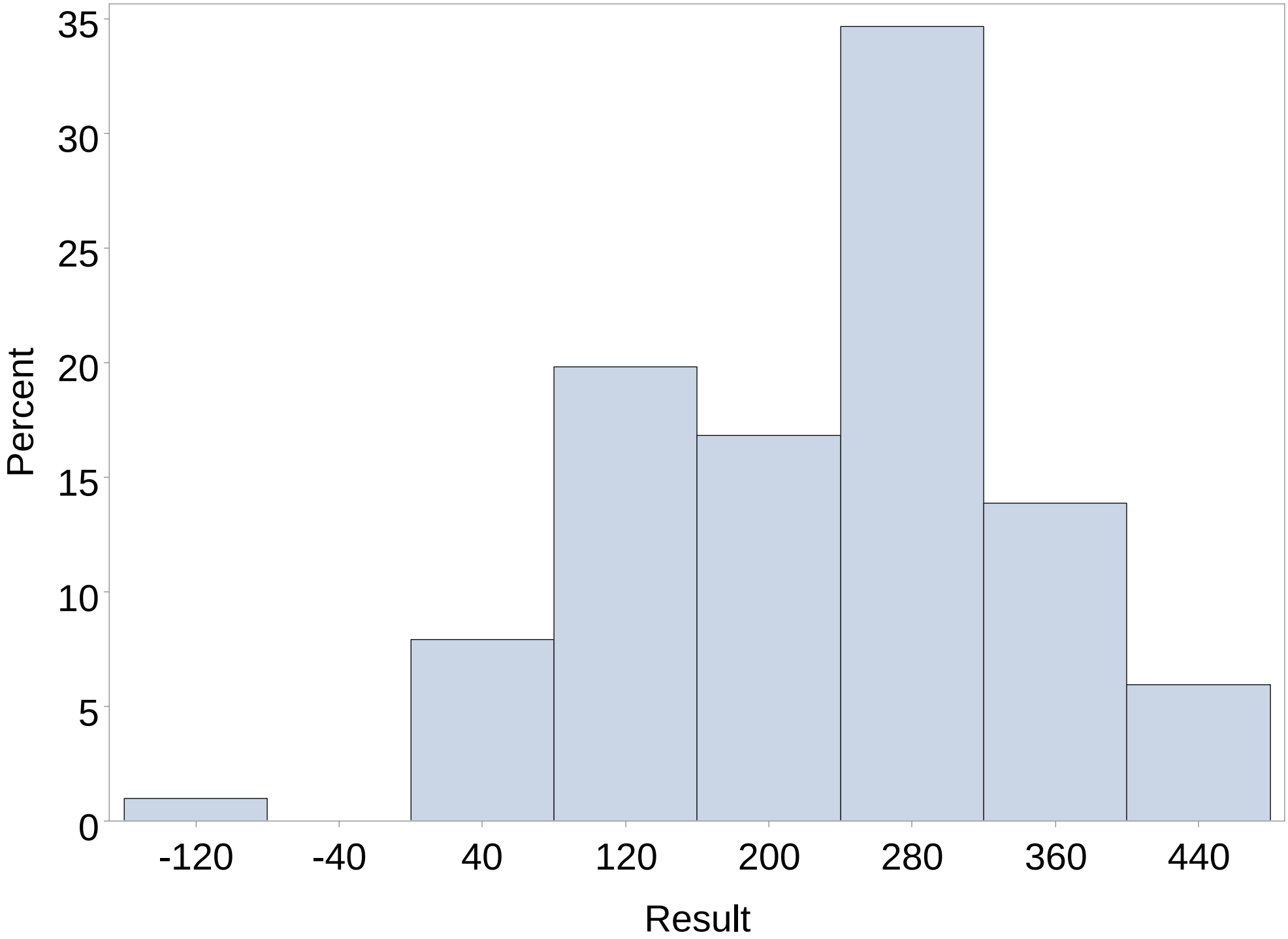
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.22191	**Pr > |t|**	<.0001
Sign	**M**	49.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2555.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	466.0
99%	446.0
95%	407.0
90%	357.0
75% Q3	303.0
50% Median	254.1
25% Q1	143.0
10%	87.2
5%	54.0
1%	15.0
0% Min	-123.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-123.0	58730	433	58648
15.0	58649	433	58675
33.5	58707	441	58667
37.8	58705	446	58633
51.8	58731	466	58644


Parameter=ORP_Bottom STATION=11
Percent
35
30
25
20
15
10
5
0
-120
-40
40
120
200
280
360
440
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=12

Moments			
N	102	**Sum Weights**	102
Mean	245.787255	**Sum Observations**	25070.3
Std Deviation	104.732965	**Variance**	10968.994
Skewness	-0.229694	**Kurtosis**	-0.9220097
Uncorrected SS	7269828.61	**Corrected SS**	1107868.39
Coeff Variation	42.611227	**Std Error Mean**	10.3701088

Basic Statistical Measures			
Location		**Variability**	
Mean	245.7873	**Std Deviation**	104.73297
Median	265.4500	**Variance**	10969
Mode	293.0000	**Range**	424.40000
		Interquartile Range	169.00000

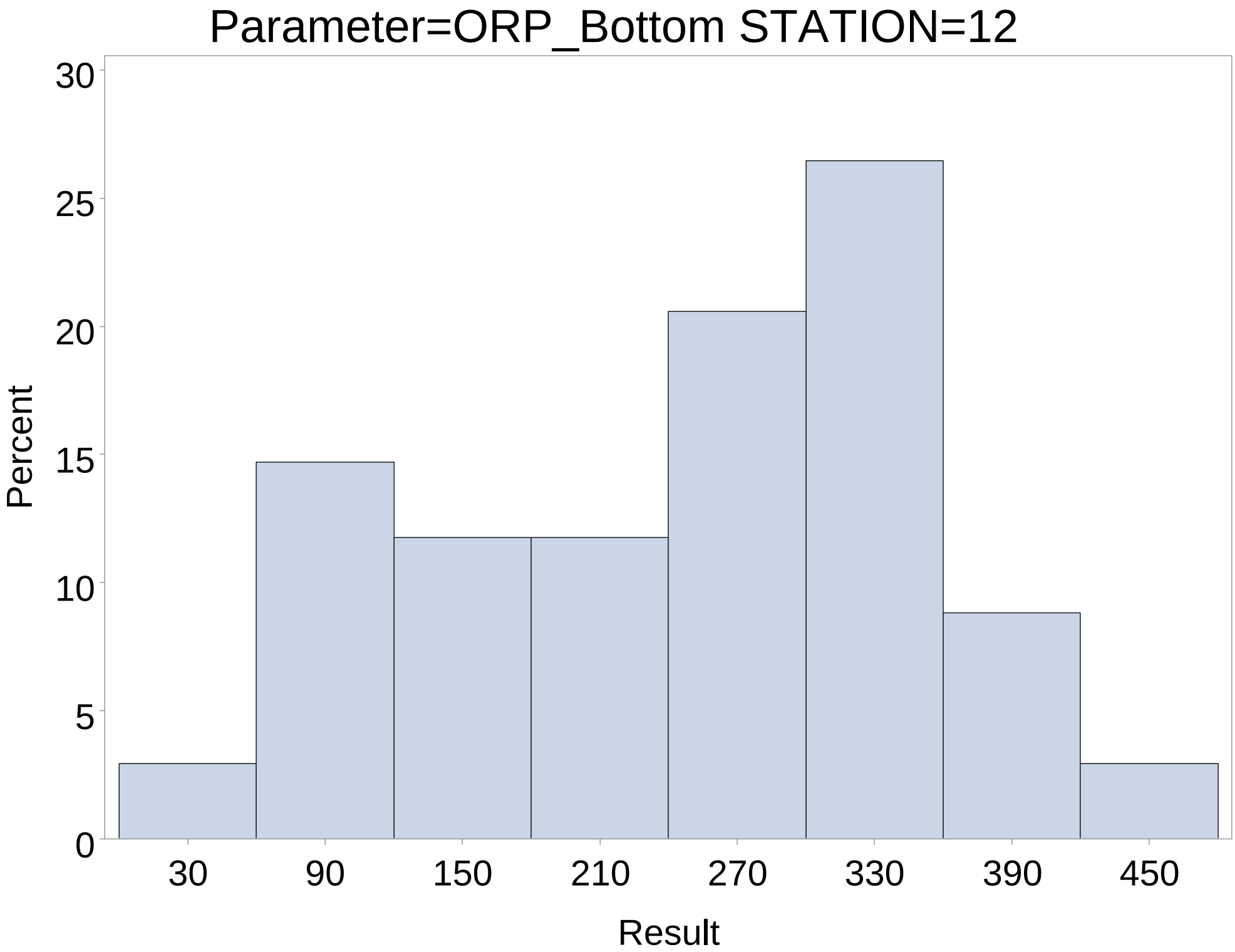
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.70151	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	460.00
99%	437.00
95%	405.00
90%	368.00
75% Q3	323.00
50% Median	265.45
25% Q1	154.00
10%	95.00
5%	77.70
1%	45.10
0% Min	35.60

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
35.6	58807	408	58742
45.1	58806	419	58734
53.8	58833	436	58768
68.0	58803	437	58776
74.0	58810	460	58745


Parameter=ORP_Bottom STATION=12
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=13

Moments			
N	102	**Sum Weights**	102
Mean	248.297059	**Sum Observations**	25326.3
Std Deviation	101.115925	**Variance**	10224.4302
Skewness	-0.2175447	**Kurtosis**	-0.7944732
Uncorrected SS	7321113.25	**Corrected SS**	1032667.45
Coeff Variation	40.7237705	**Std Error Mean**	10.0119684

Basic Statistical Measures			
Location		**Variability**	
Mean	248.2971	**Std Deviation**	101.11592
Median	270.4500	**Variance**	10224
Mode	317.0000	**Range**	430.50000
		Interquartile Range	161.00000

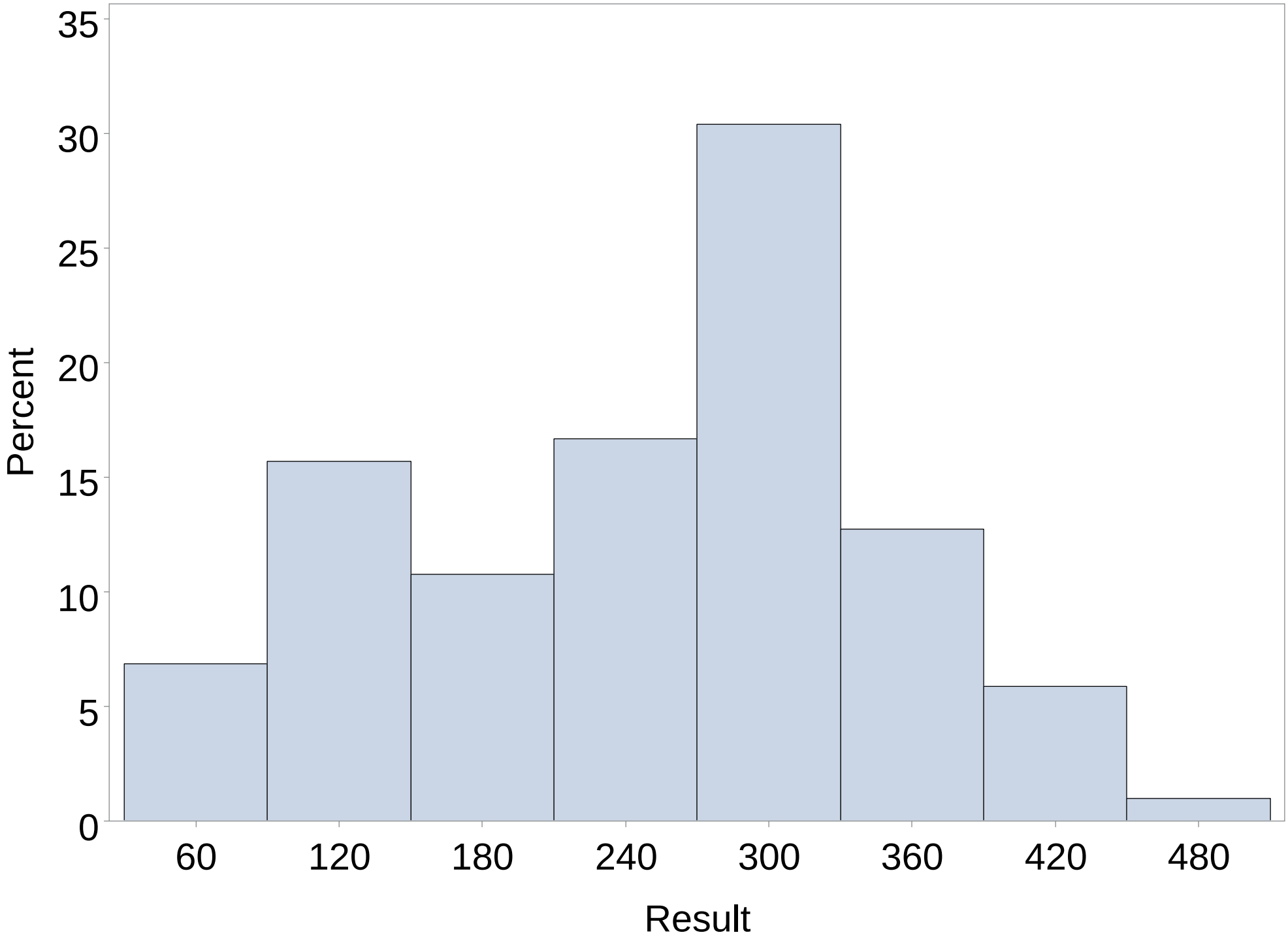
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.80002	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	472.00
99%	435.00
95%	400.00
90%	363.00
75% Q3	317.00
50% Median	270.45
25% Q1	156.00
10%	98.00
5%	86.80
1%	50.50
0% Min	41.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
41.5	58909	420	58836
50.5	58908	427	58870
69.0	58905	430	58863
72.0	58912	435	58878
76.0	58883	472	58847


Parameter=ORP_Bottom STATION=13
Percent
35
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=14

Moments			
N	101	**Sum Weights**	101
Mean	246.586139	**Sum Observations**	24905.2
Std Deviation	99.4331333	**Variance**	9886.94801
Skewness	-0.1694562	**Kurtosis**	-0.7156942
Uncorrected SS	7129971.9	**Corrected SS**	988694.801
Coeff Variation	40.3238941	**Std Error Mean**	9.89396656

Basic Statistical Measures			
Location		**Variability**	
Mean	246.5861	**Std Deviation**	99.43313
Median	256.0000	**Variance**	9887
Mode	160.0000	**Range**	404.70000
		Interquartile Range	153.00000

Note: The mode displayed is the smallest of 15 modes with a count of 2.

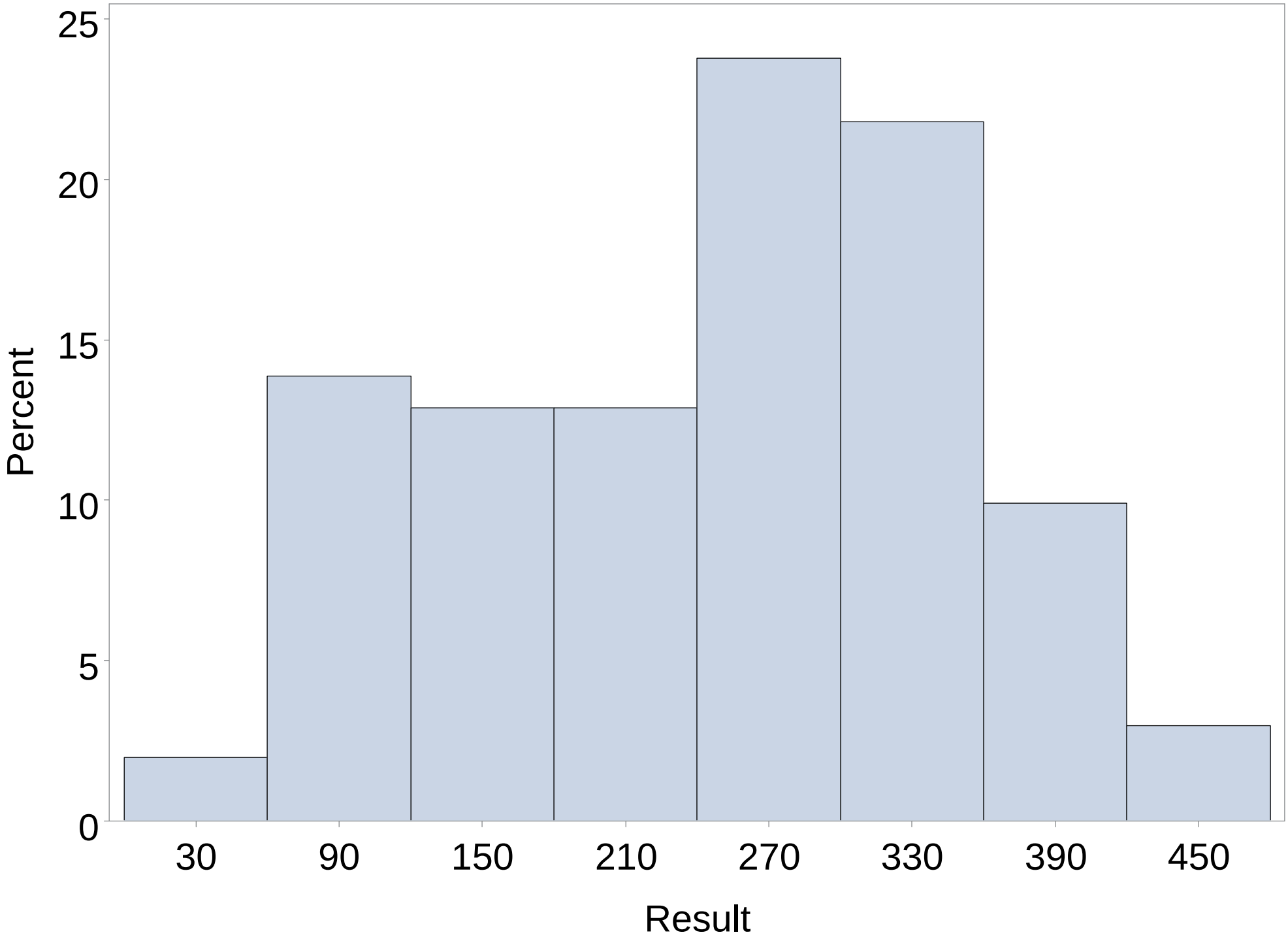
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.92288	**Pr > |t|**	<.0001
Sign	**M**	50.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2575.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	454.0
99%	449.0
95%	390.0
90%	374.0
75% Q3	313.0
50% Median	256.0
25% Q1	160.0
10%	99.0
5%	77.0
1%	53.7
0% Min	49.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
49.3	59010	415	58938
53.7	59009	415	58964
62.0	59013	443	58971
72.3	59011	449	58979
76.0	58984	454	58949


Parameter=ORP_Bottom STATION=14
Percent
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=15

Moments			
N	101	**Sum Weights**	101
Mean	242.560396	**Sum Observations**	24498.6
Std Deviation	102.192449	**Variance**	10443.2966
Skewness	-0.3588915	**Kurtosis**	0.03688644
Uncorrected SS	6986719.78	**Corrected SS**	1044329.66
Coeff Variation	42.1307231	**Std Error Mean**	10.1685287

Basic Statistical Measures			
Location		**Variability**	
Mean	242.5604	**Std Deviation**	102.19245
Median	262.3000	**Variance**	10443
Mode	297.0000	**Range**	543.20000
		Interquartile Range	139.00000

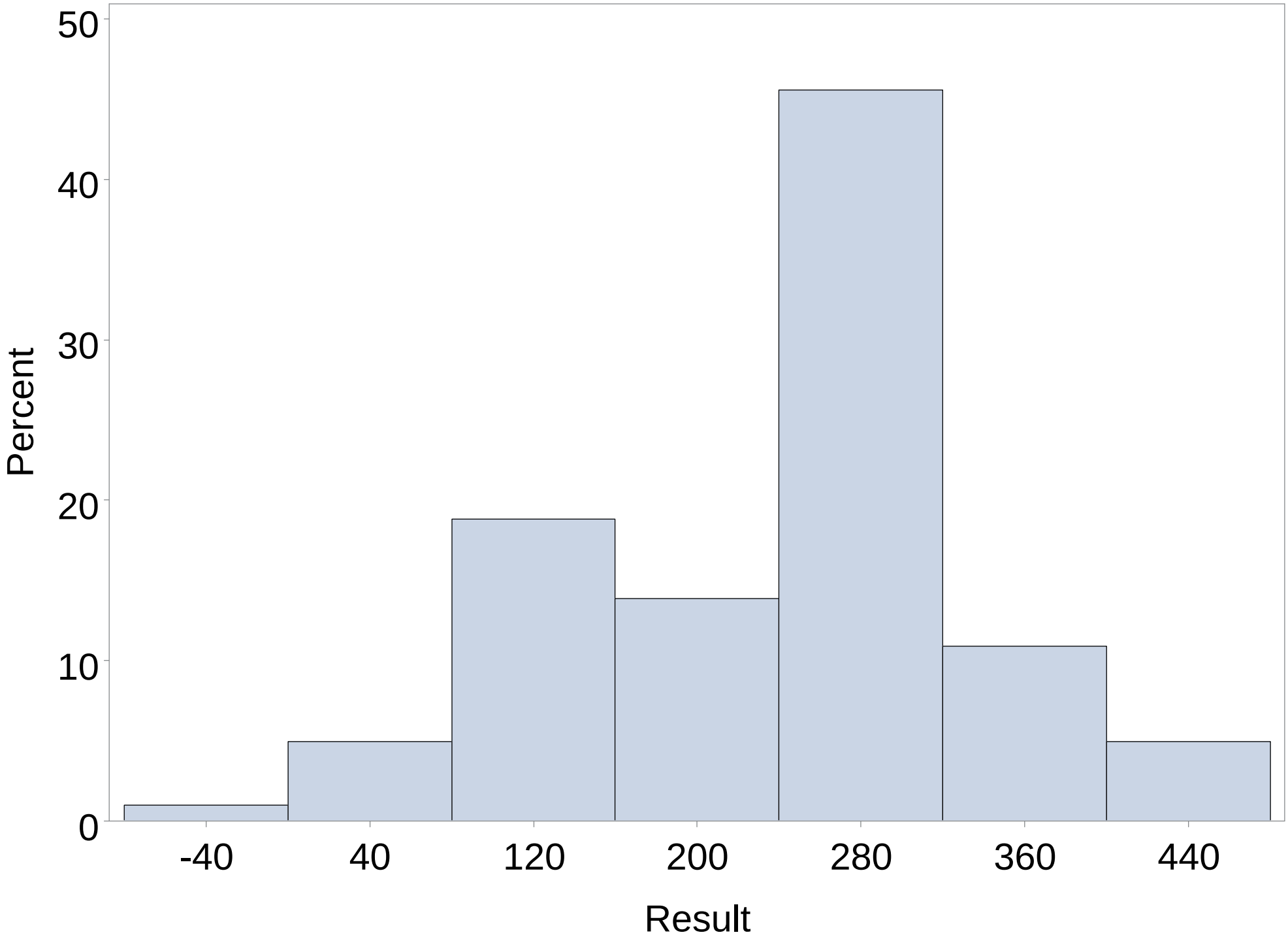
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.85403	**Pr > |t|**	<.0001
Sign	**M**	49.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2569.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	465.0
99%	455.0
95%	399.0
90%	369.0
75% Q3	301.0
50% Median	262.3
25% Q1	162.0
10%	99.1
5%	74.0
1%	46.5
0% Min	-78.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-78.2	59125	406	59053
46.5	59111	410	59039
60.7	59112	438	59049
60.9	59110	455	59072
66.0	59114	465	59080


Parameter=ORP_Bottom STATION=15
Percent
50
40
30
20
10
0
-40
40
120
200
280
360
440
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=16

Moments			
N	102	**Sum Weights**	102
Mean	243.764706	**Sum Observations**	24864
Std Deviation	89.8377433	**Variance**	8070.82013
Skewness	-0.177273	**Kurtosis**	-0.511164
Uncorrected SS	6876118.48	**Corrected SS**	815152.833
Coeff Variation	36.8542866	**Std Error Mean**	8.89526208

Basic Statistical Measures			
Location		**Variability**	
Mean	243.7647	**Std Deviation**	89.83774
Median	265.0000	**Variance**	8071
Mode	104.0000	**Range**	384.10000
		Interquartile Range	128.50000

Note: The mode displayed is the smallest of 13 modes with a count of 2.

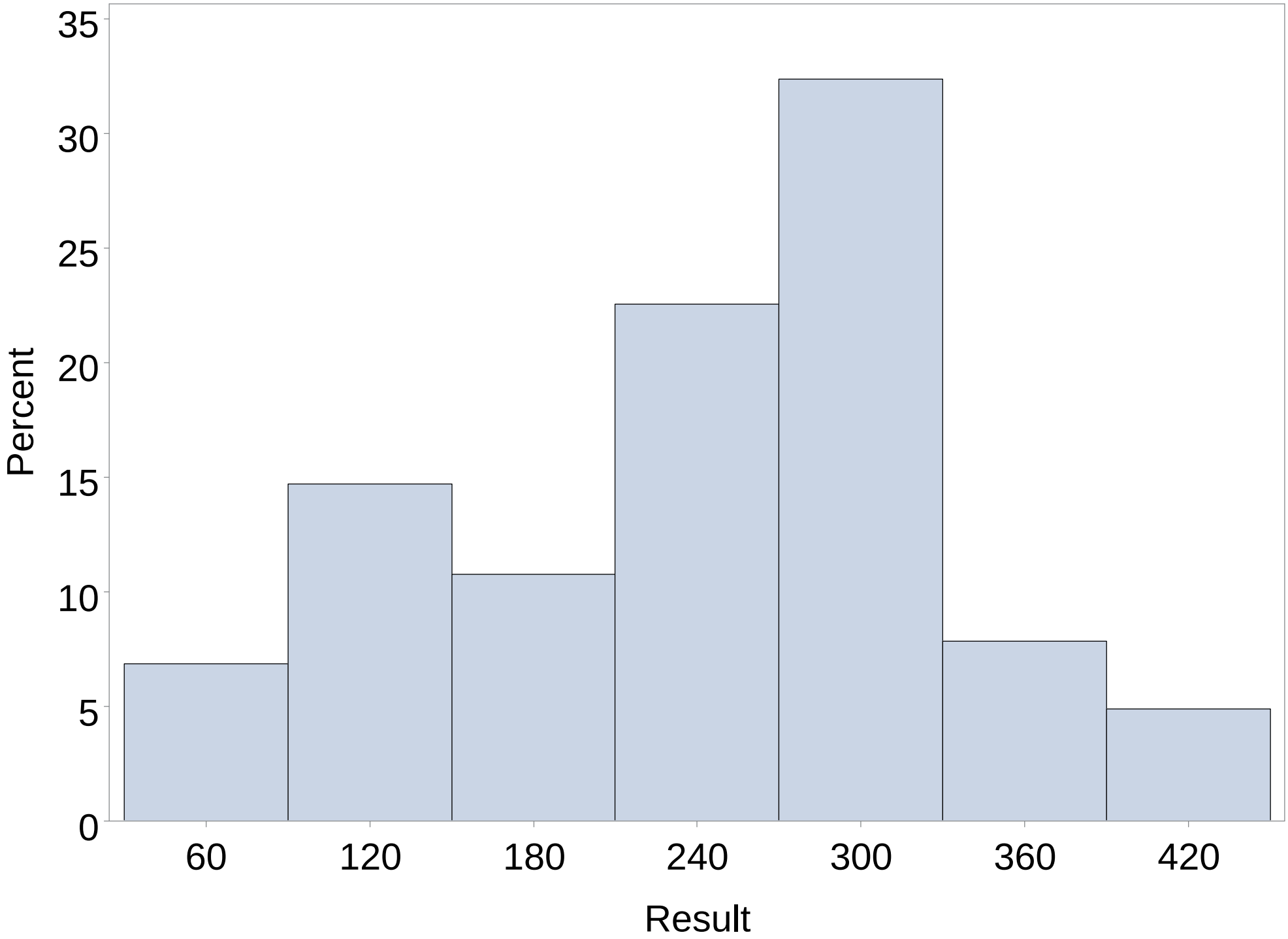
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.40388	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	441.0
99%	431.0
95%	377.0
90%	344.0
75% Q3	301.0
50% Median	265.0
25% Q1	172.5
10%	120.0
5%	87.0
1%	62.6
0% Min	56.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
56.9	59213	404	59151
62.6	59212	418	59159
75.7	59214	426	59140
77.0	59216	431	59182
86.0	59180	441	59174


Parameter=ORP_Bottom STATION=16
Percent
35
30
25
20
15
10
5
0
60
120
180
240
300
360
420
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=17

Moments			
N	102	**Sum Weights**	102
Mean	242.327451	**Sum Observations**	24717.4
Std Deviation	89.0418259	**Variance**	7928.44676
Skewness	-0.1160961	**Kurtosis**	-0.4231542
Uncorrected SS	6790477.66	**Corrected SS**	800773.123
Coeff Variation	36.7444239	**Std Error Mean**	8.81645452

Basic Statistical Measures			
Location		**Variability**	
Mean	242.3275	**Std Deviation**	89.04183
Median	259.1500	**Variance**	7928
Mode	128.0000	**Range**	387.80000
		Interquartile Range	129.00000

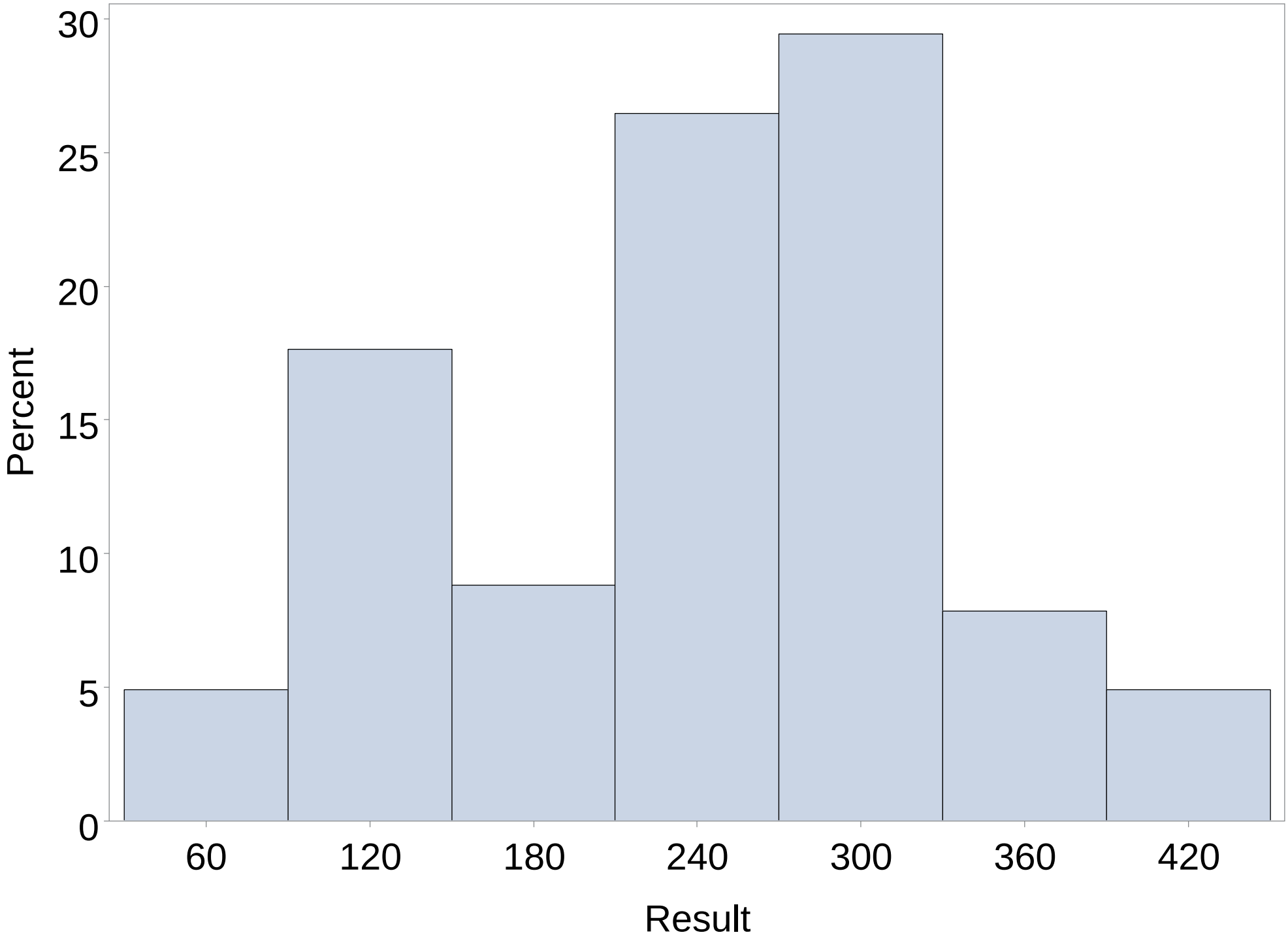
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.48582	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	448.00
99%	432.00
95%	381.00
90%	353.00
75% Q3	295.00
50% Median	259.15
25% Q1	166.00
10%	112.00
5%	90.00
1%	65.80
0% Min	60.20

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
60.2	59315	417	59253
65.8	59314	418	59242
76.9	59316	420	59269
86.0	59318	432	59284
86.0	59289	448	59276


Parameter=ORP_Bottom STATION=17
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=18

Moments			
N	100	**Sum Weights**	100
Mean	241.264	**Sum Observations**	24126.4
Std Deviation	90.2575143	**Variance**	8146.41889
Skewness	-0.0678661	**Kurtosis**	-0.3954507
Uncorrected SS	6627327.24	**Corrected SS**	806495.47
Coeff Variation	37.4102702	**Std Error Mean**	9.02575143

Basic Statistical Measures			
Location		**Variability**	
Mean	241.2640	**Std Deviation**	90.25751
Median	258.0000	**Variance**	8146
Mode	148.0000	**Range**	419.00000
		Interquartile Range	139.45000

Note: The mode displayed is the smallest of 10 modes with a count of 2.

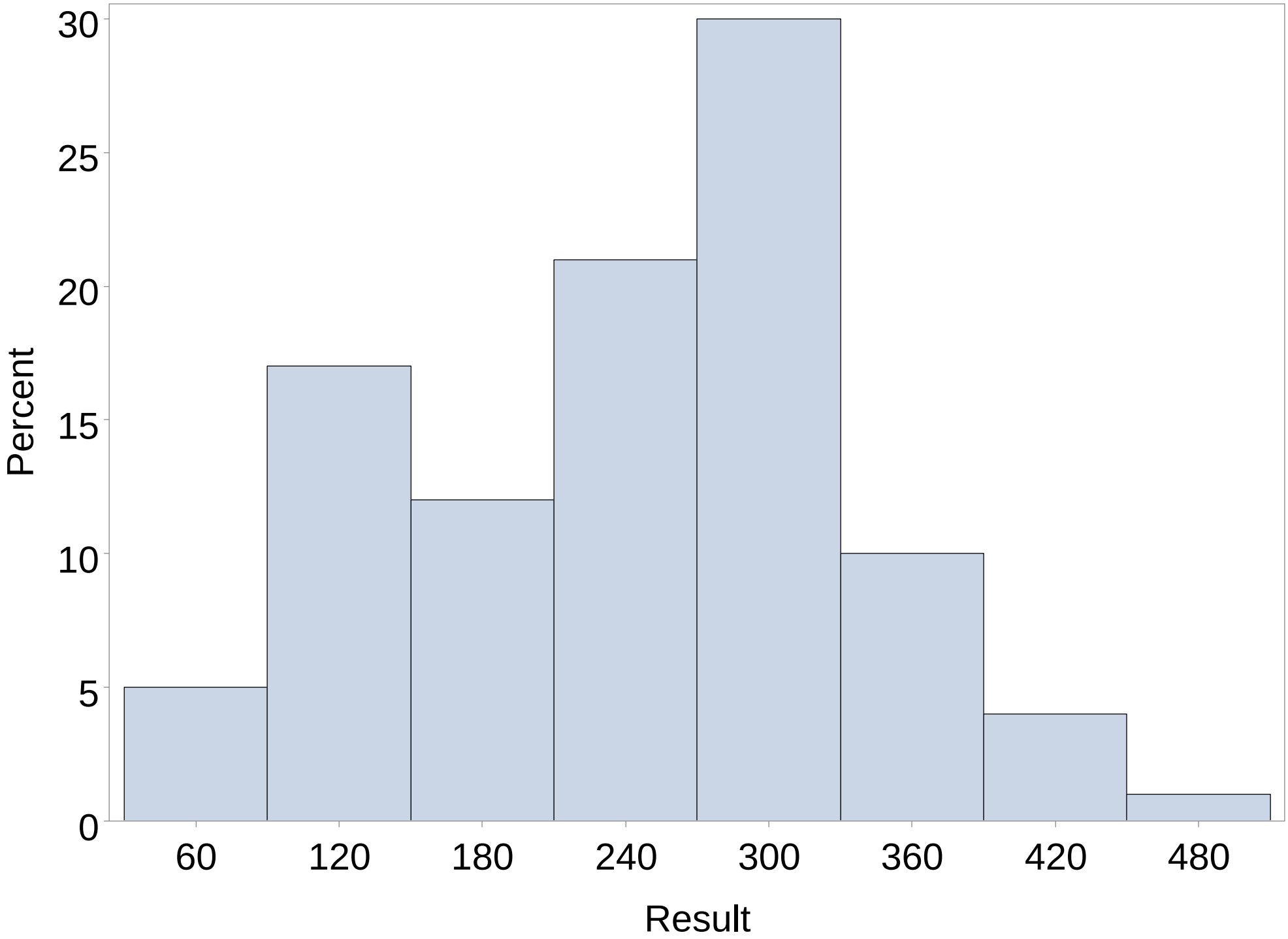
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.73063	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2525	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	477.00
99%	449.00
95%	391.50
90%	340.00
75% Q3	302.50
50% Median	258.00
25% Q1	163.05
10%	116.00
5%	86.80
1%	59.00
0% Min	58.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
58.0	59419	406	59385
60.0	59417	417	59355
66.2	59416	421	59344
72.0	59390	421	59349
74.6	59415	477	59377


Parameter=ORP_Bottom STATION=18
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=19

Moments			
N	102	**Sum Weights**	102
Mean	240.660784	**Sum Observations**	24547.4
Std Deviation	94.5067949	**Variance**	8931.53429
Skewness	0.79474211	**Kurtosis**	2.98433705
Uncorrected SS	6809681.5	**Corrected SS**	902084.963
Coeff Variation	39.2697112	**Std Error Mean**	9.35756708

Basic Statistical Measures			
Location		**Variability**	
Mean	240.6608	**Std Deviation**	94.50679
Median	252.0000	**Variance**	8932
Mode	252.0000	**Range**	604.70000
		Interquartile Range	113.60000

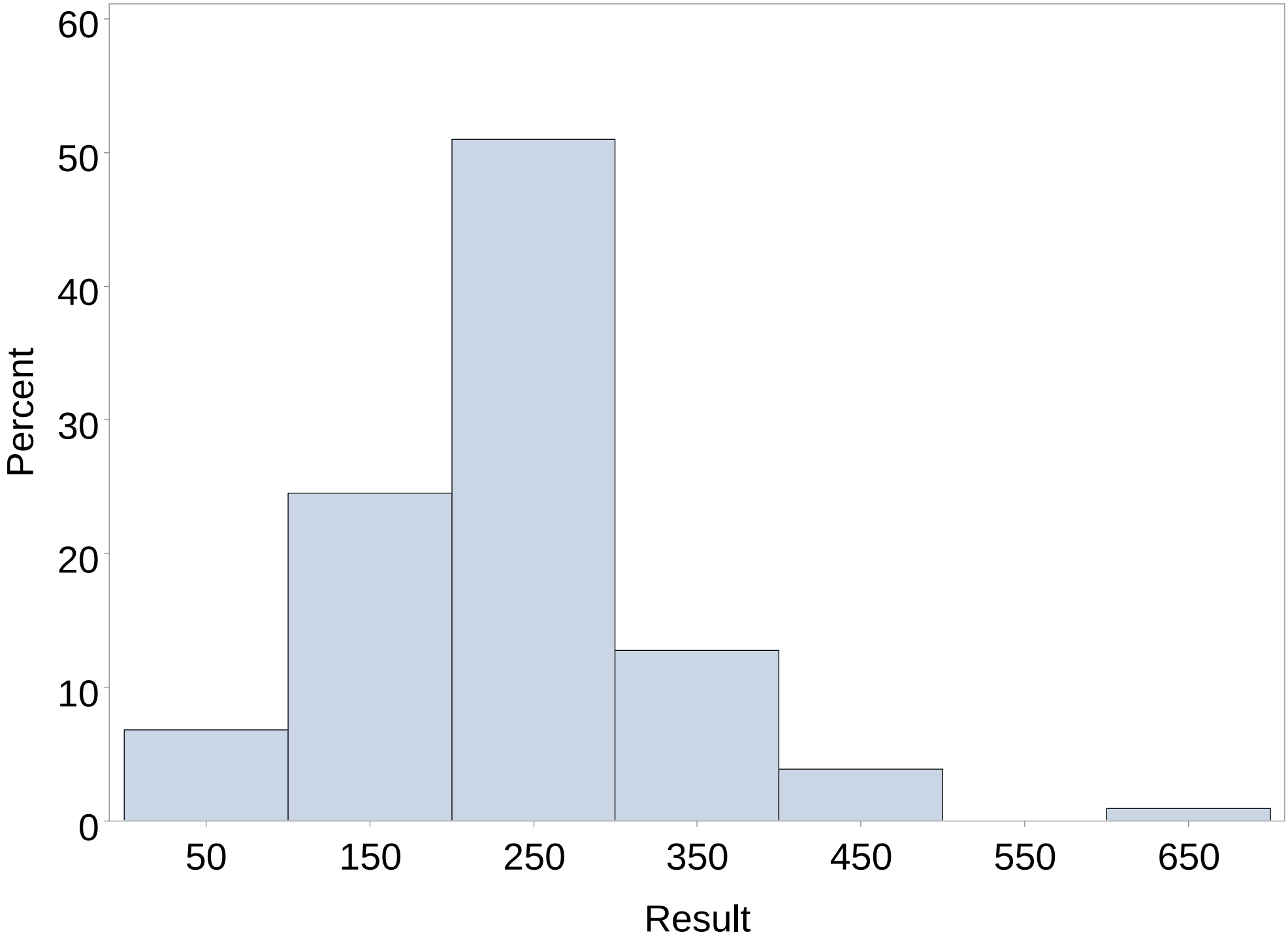
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.71831	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	664.0
99%	442.0
95%	380.0
90%	340.0
75% Q3	285.0
50% Median	252.0
25% Q1	171.4
10%	126.0
5%	94.0
1%	68.7
0% Min	59.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
59.3	59517	404	59455
68.7	59516	415	59444
80.0	59491	439	59486
80.0	59484	442	59478
80.4	59518	664	59473


Parameter=ORP_Bottom STATION=19
Percent
60
50
40
30
20
10
0
50
150
250
350
450
550
650
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=22

Moments			
N	1	Sum Weights	1
Mean	17	Sum Observations	17
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	289	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	17.00000	Std Deviation	.
Median	17.00000	Variance	.
Mode	17.00000	Range	0
		Interquartile Range	0

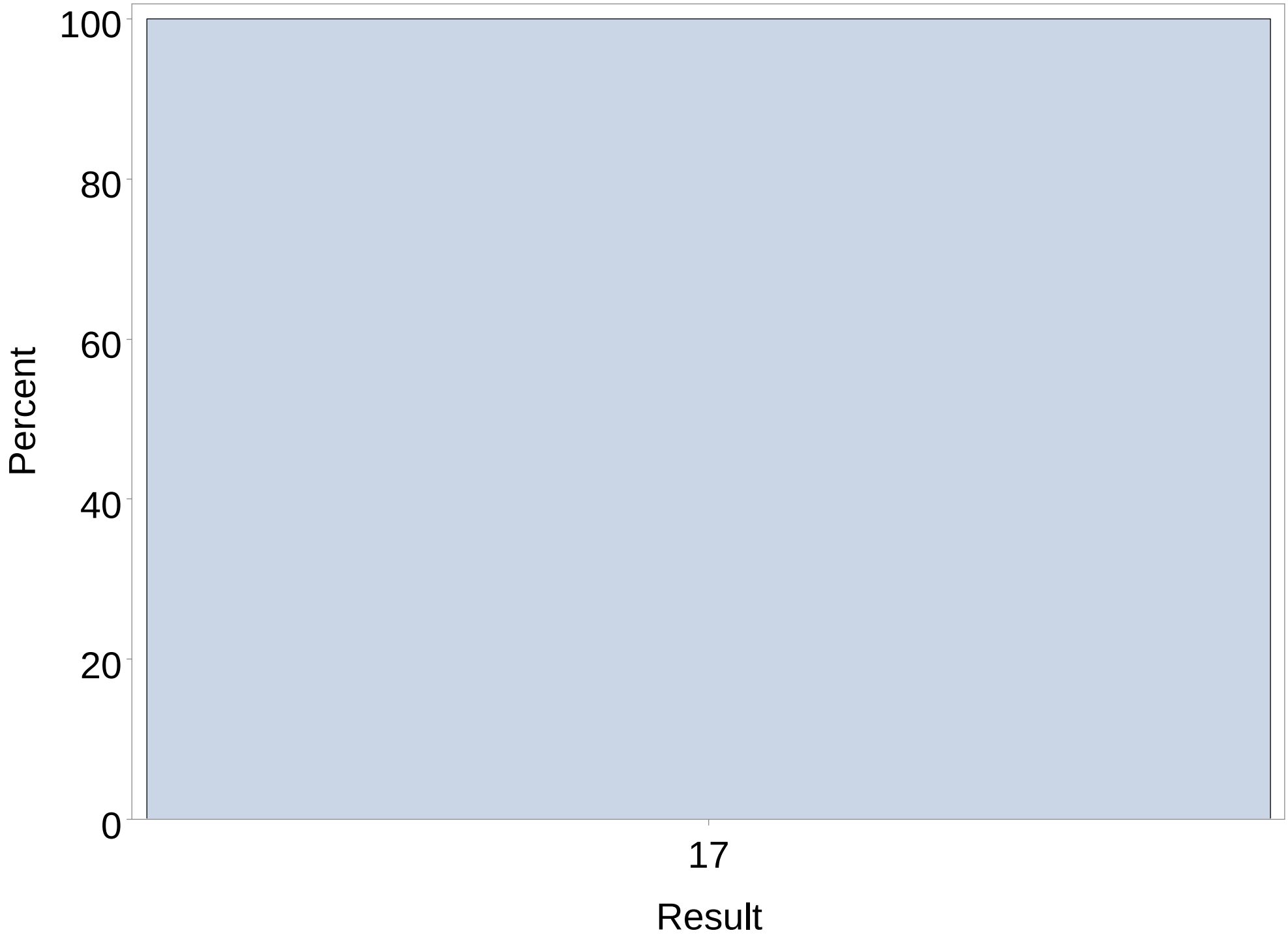
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	17
99%	17
95%	17
90%	17
75% Q3	17
50% Median	17
25% Q1	17
10%	17
5%	17
1%	17
0% Min	17

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Bottom STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
17	59545	17	59545


Parameter=ORP_Bottom STATION=22
100
80
60
40
20
0
Percent
17
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=1

Moments			
N	103	**Sum Weights**	103
Mean	243	**Sum Observations**	25029
Std Deviation	115.0784	**Variance**	13243.0382
Skewness	-0.1234636	**Kurtosis**	-0.6693323
Uncorrected SS	7432836.9	**Corrected SS**	1350789.9
Coeff Variation	47.3573664	**Std Error Mean**	11.3390117

Basic Statistical Measures			
Location		**Variability**	
Mean	243.0000	**Std Deviation**	115.07840
Median	262.0000	**Variance**	13243
Mode	115.0000	**Range**	476.10000
		Interquartile Range	183.00000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

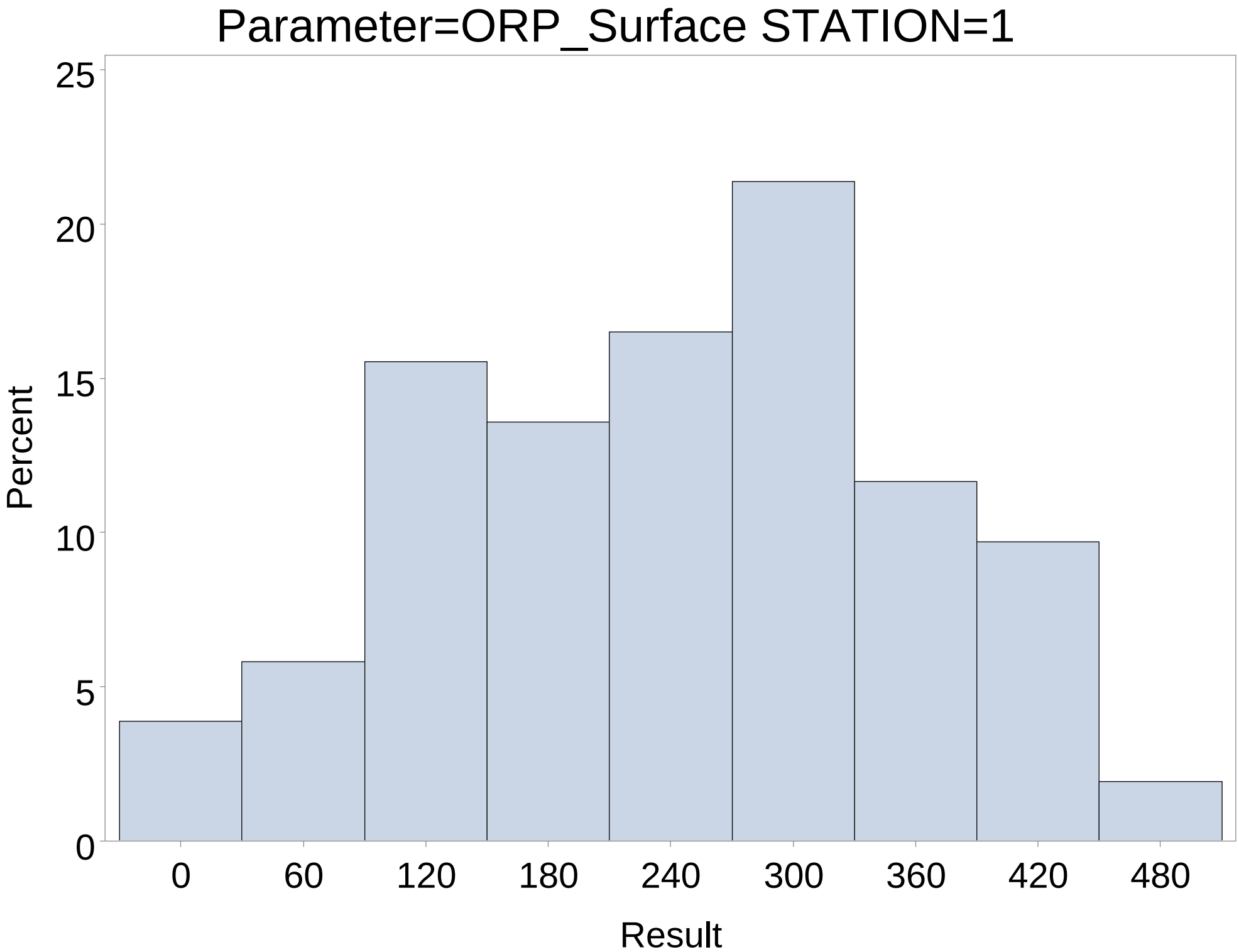
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.43044	**Pr > |t|**	<.0001
Sign	**M**	49.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2675	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	474.0
99%	465.0
95%	429.0
90%	395.0
75% Q3	321.0
50% Median	262.0
25% Q1	138.0
10%	90.0
5%	60.5
1%	-2.0
0% Min	-2.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-2.1	59622	432	59574
-2.0	59617	436	59600
4.0	59615	445	59552
29.0	59624	465	59581
40.0	59625	474	59558


Parameter=ORP_Surface STATION=1
Percent
25
20
15
10
5
0
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=2

Moments			
N	101	**Sum Weights**	101
Mean	229.982178	**Sum Observations**	23228.2
Std Deviation	102.435688	**Variance**	10493.0701
Skewness	-0.1995491	**Kurtosis**	-0.544395
Uncorrected SS	6391379.04	**Corrected SS**	1049307.01
Coeff Variation	44.5407067	**Std Error Mean**	10.1927319

Basic Statistical Measures			
Location		**Variability**	
Mean	229.9822	**Std Deviation**	102.43569
Median	250.0000	**Variance**	10493
Mode	115.0000	**Range**	425.00000
		Interquartile Range	156.00000

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

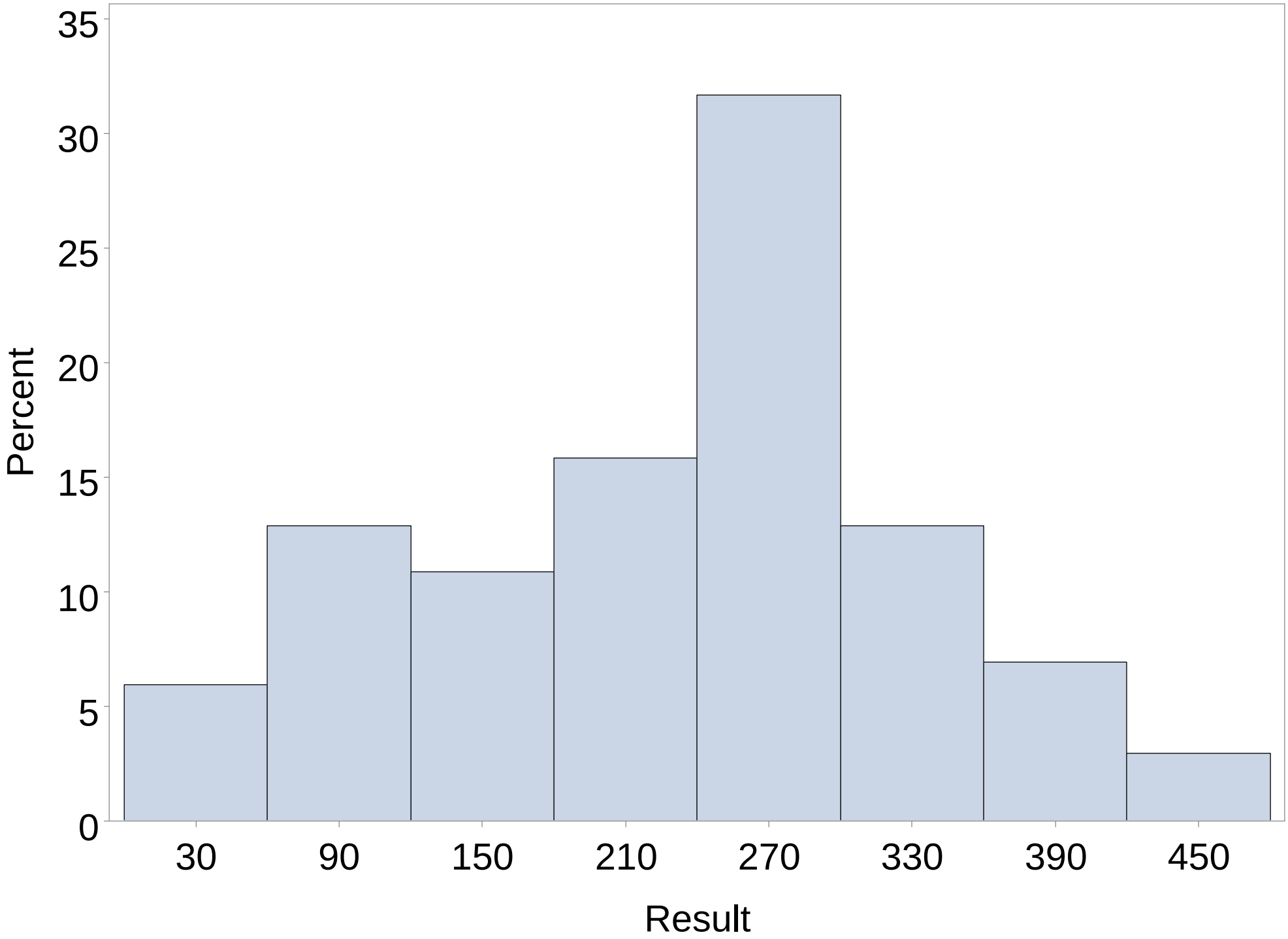
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.56335	**Pr > |t|**	<.0001
Sign	**M**	50.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2575.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	438.0
99%	437.0
95%	400.0
90%	357.0
75% Q3	296.0
50% Median	250.0
25% Q1	140.0
10%	87.9
5%	42.0
1%	24.9
0% Min	13.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
13.0	59720	402.0	59655
24.9	59725	404.6	59729
26.2	59723	434.0	59650
38.0	59727	437.0	59703
41.0	59716	438.0	59684


Parameter=ORP_Surface STATION=2
Percent
35
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=3

Moments			
N	102	**Sum Weights**	102
Mean	227.931373	**Sum Observations**	23249
Std Deviation	106.683895	**Variance**	11381.4535
Skewness	-0.0564284	**Kurtosis**	-0.5479075
Uncorrected SS	6448703.28	**Corrected SS**	1149526.8
Coeff Variation	46.8052703	**Std Error Mean**	10.5632797

Basic Statistical Measures			
Location		**Variability**	
Mean	227.9314	**Std Deviation**	106.68390
Median	244.5000	**Variance**	11381
Mode	81.0000	**Range**	430.00000
		Interquartile Range	156.00000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

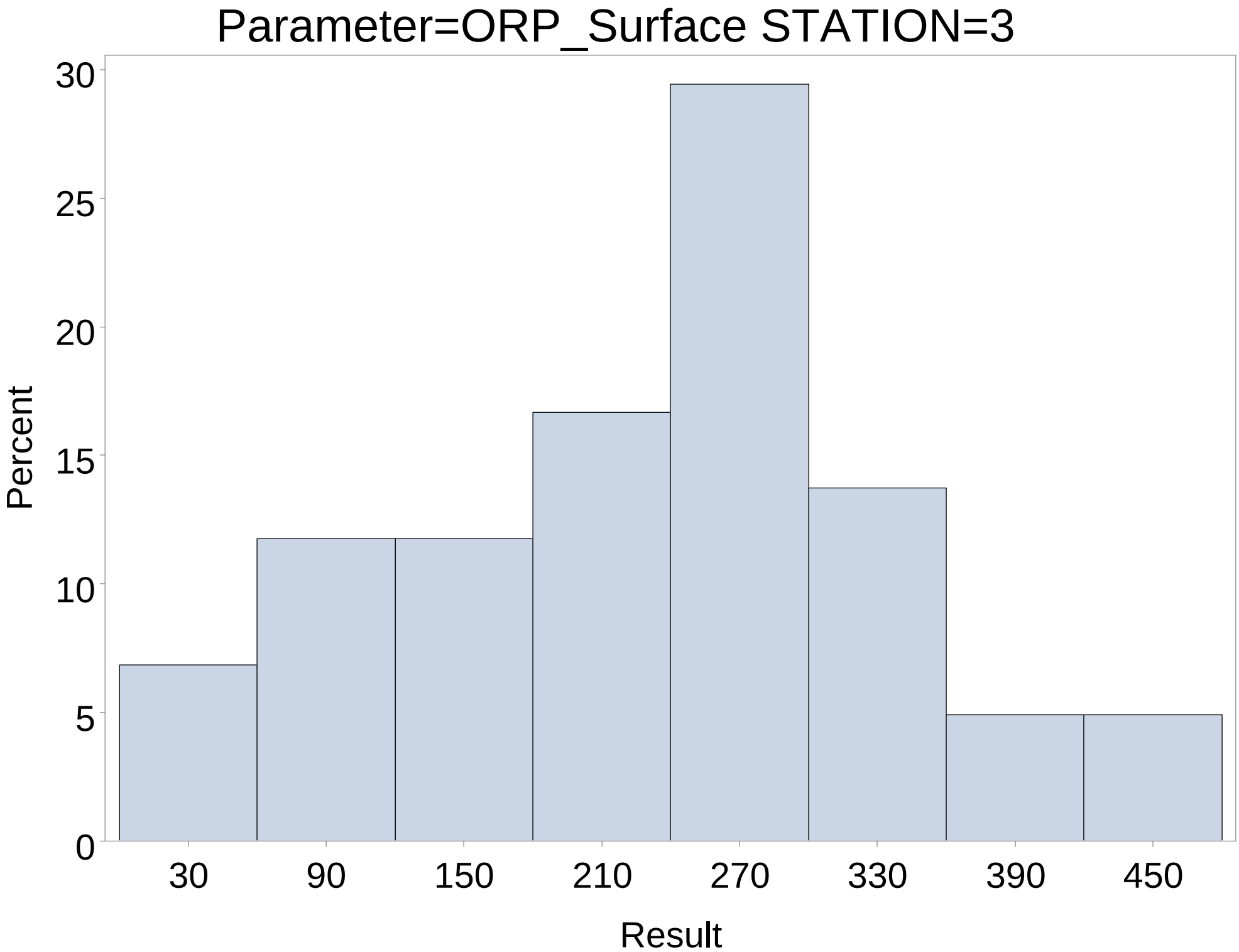
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.57771	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	448.0
99%	444.0
95%	414.0
90%	351.0
75% Q3	295.0
50% Median	244.5
25% Q1	139.0
10%	80.0
5%	55.0
1%	20.0
0% Min	18.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
18.0	59828	427	59785
20.0	59821	437	59751
24.8	59826	439	59788
29.2	59824	444	59776
50.1	59827	448	59804


Parameter=ORP_Surface STATION=3
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=4

Moments			
N	102	**Sum Weights**	102
Mean	234.955882	**Sum Observations**	23965.5
Std Deviation	105.644365	**Variance**	11160.7318
Skewness	0.02314107	**Kurtosis**	-0.3352018
Uncorrected SS	6758069.11	**Corrected SS**	1127233.91
Coeff Variation	44.96349	**Std Error Mean**	10.4603508

Basic Statistical Measures			
Location		**Variability**	
Mean	234.9559	**Std Deviation**	105.64436
Median	248.2500	**Variance**	11161
Mode	215.0000	**Range**	504.00000
		Interquartile Range	142.00000

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

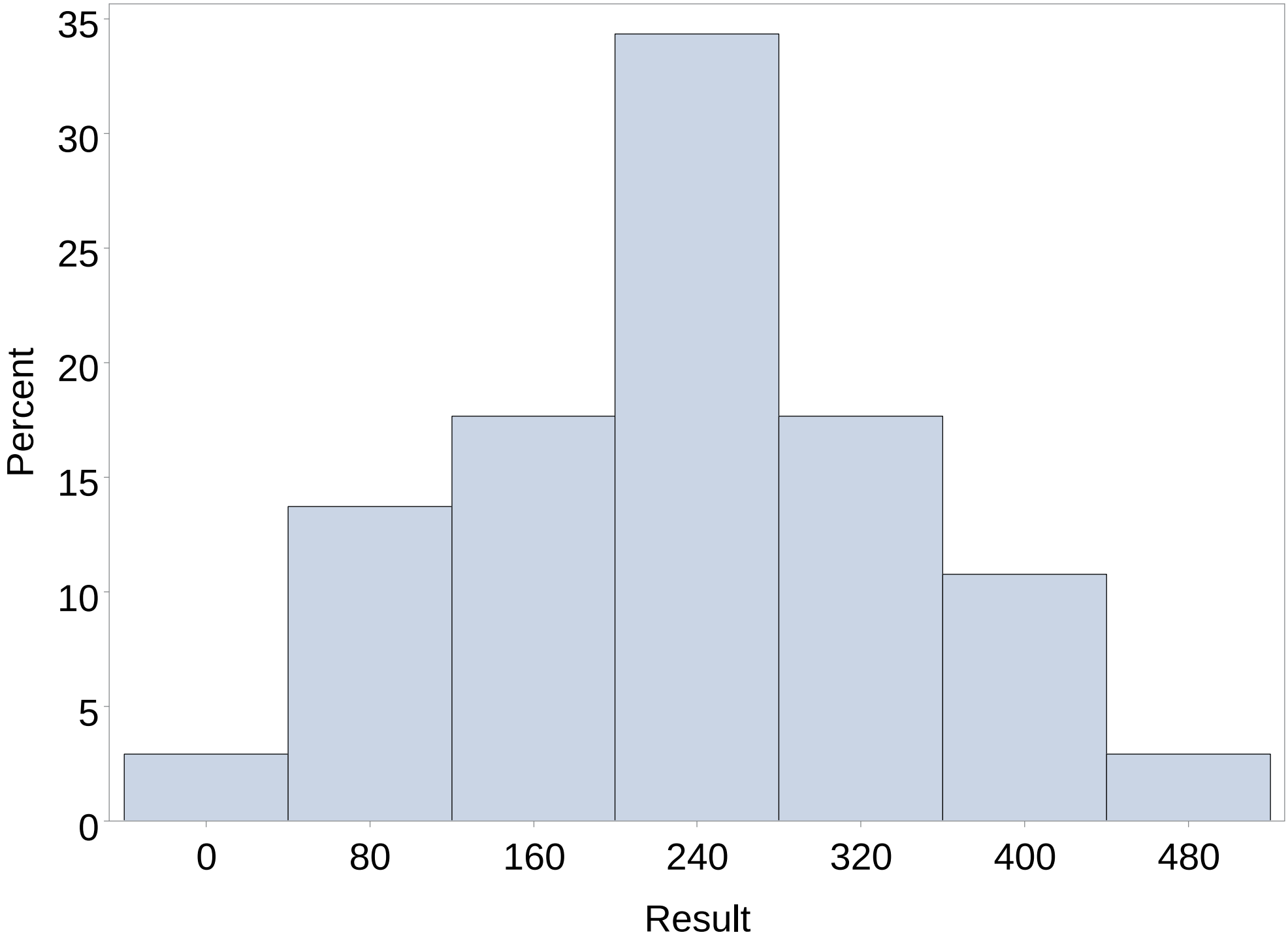
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.46157	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2625.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	476.00
99%	460.00
95%	411.00
90%	382.00
75% Q3	296.00
50% Median	248.25
25% Q1	154.00
10%	89.60
5%	66.00
1%	33.00
0% Min	-28.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-28.0	59926	417	59890
33.0	59927	436	59887
39.3	59925	457	59853
62.0	59922	460	59895
63.0	59929	476	59864


Parameter=ORP_Surface STATION=4
Percent
35
30
25
20
15
10
5
0
0
80
160
240
320
400
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=5

Moments			
N	103	**Sum Weights**	103
Mean	238.197087	**Sum Observations**	24534.3
Std Deviation	100.049676	**Variance**	10009.9377
Skewness	0.09783904	**Kurtosis**	-0.3423982
Uncorrected SS	6865012.45	**Corrected SS**	1021013.65
Coeff Variation	42.0028966	**Std Error Mean**	9.85818754

Basic Statistical Measures			
Location		**Variability**	
Mean	238.1971	**Std Deviation**	100.04968
Median	247.0000	**Variance**	10010
Mode	269.0000	**Range**	428.40000
		Interquartile Range	138.00000

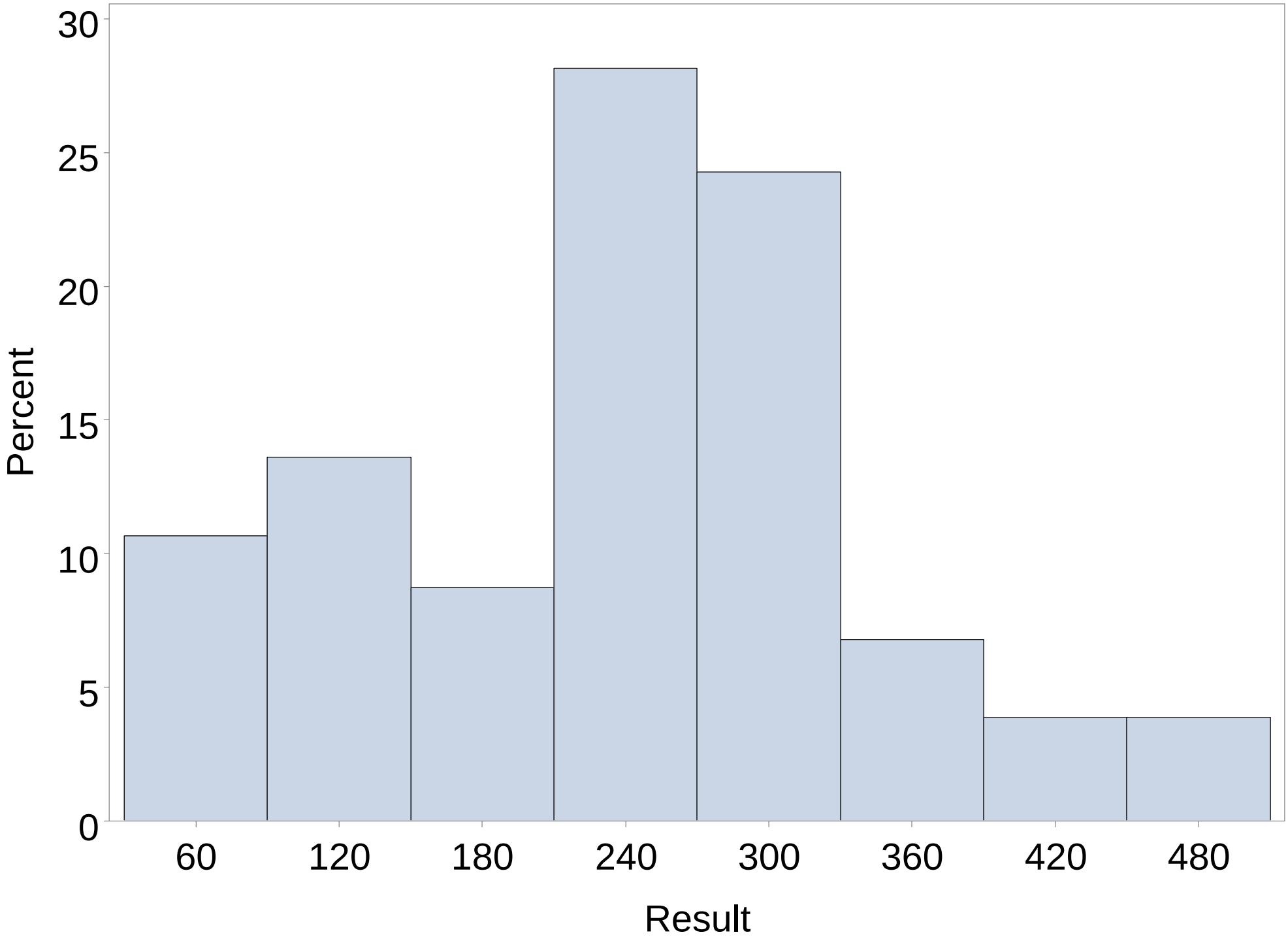
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.16236	**Pr > |t|**	<.0001
Sign	**M**	51.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2678	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	470.0
99%	469.0
95%	394.0
90%	372.0
75% Q3	296.0
50% Median	247.0
25% Q1	158.0
10%	89.0
5%	85.0
1%	50.1
0% Min	41.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
41.6	60029	440	59983
50.1	60028	453	59990
60.0	60032	454	59955
70.0	60003	469	59966
71.0	60025	470	59998


Parameter=ORP_Surface STATION=5
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=6

Moments			
N	102	**Sum Weights**	102
Mean	237.334314	**Sum Observations**	24208.1
Std Deviation	99.7106035	**Variance**	9942.20445
Skewness	0.18778509	**Kurtosis**	-0.2973852
Uncorrected SS	6749575.45	**Corrected SS**	1004162.65
Coeff Variation	42.0127212	**Std Error Mean**	9.87282091

Basic Statistical Measures			
Location		**Variability**	
Mean	237.3343	**Std Deviation**	99.71060
Median	238.5000	**Variance**	9942
Mode	212.0000	**Range**	441.50000
		Interquartile Range	133.00000

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

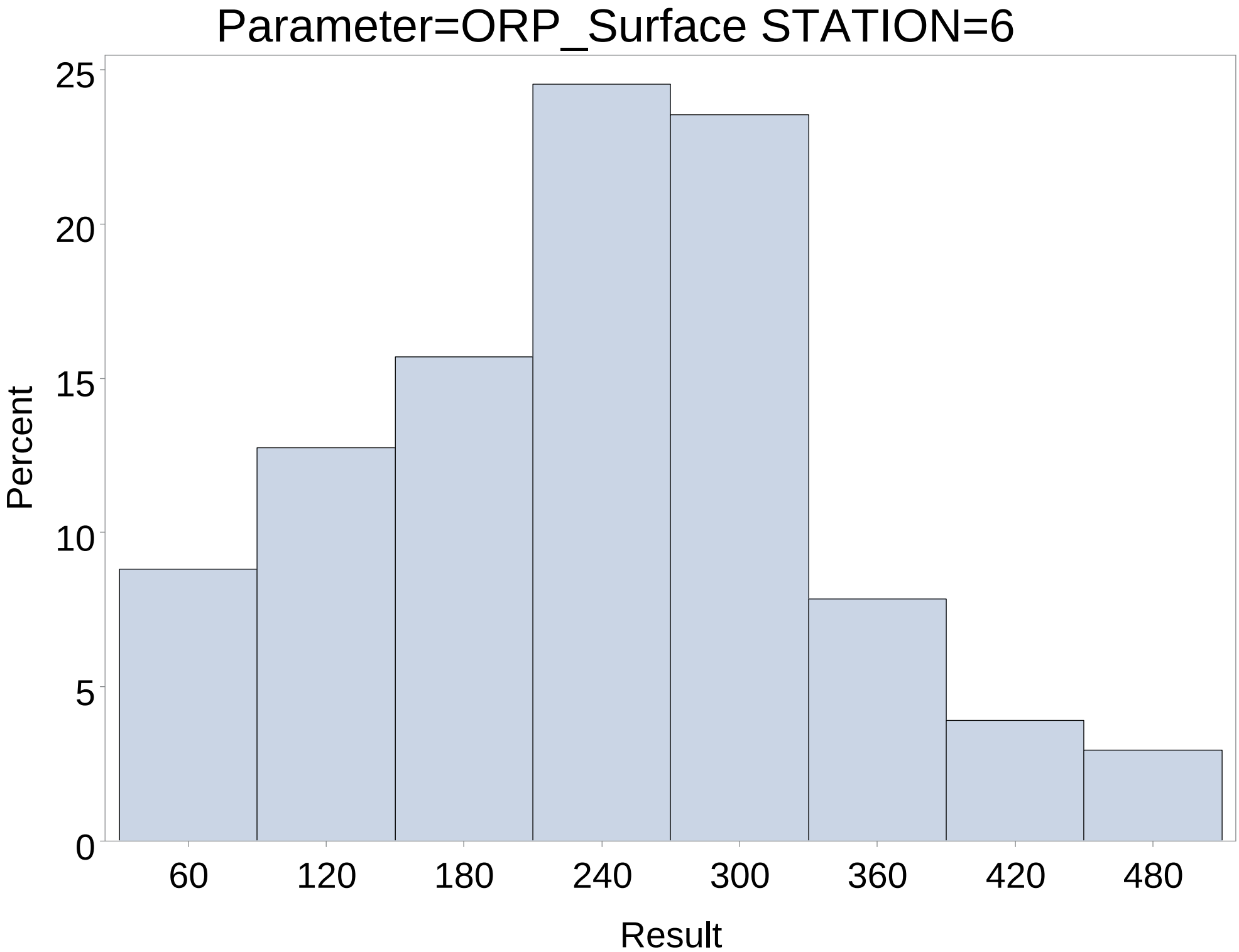
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.03916	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	479.0
99%	463.0
95%	400.0
90%	364.0
75% Q3	295.0
50% Median	238.5
25% Q1	162.0
10%	94.0
5%	75.0
1%	54.1
0% Min	37.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
37.5	60131	431	60085
54.1	60130	443	60058
63.0	60134	458	60092
64.9	60132	463	60100
72.0	60105	479	60069


Parameter=ORP_Surface STATION=6
Percent
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=7

Moments			
N	102	**Sum Weights**	102
Mean	234.277451	**Sum Observations**	23896.3
Std Deviation	92.9185515	**Variance**	8633.85721
Skewness	0.05407147	**Kurtosis**	-0.3106872
Uncorrected SS	6470383.83	**Corrected SS**	872019.578
Coeff Variation	39.6617562	**Std Error Mean**	9.20030754

Basic Statistical Measures			
Location		**Variability**	
Mean	234.2775	**Std Deviation**	92.91855
Median	246.0000	**Variance**	8634
Mode	141.0000	**Range**	420.20000
		Interquartile Range	124.00000

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

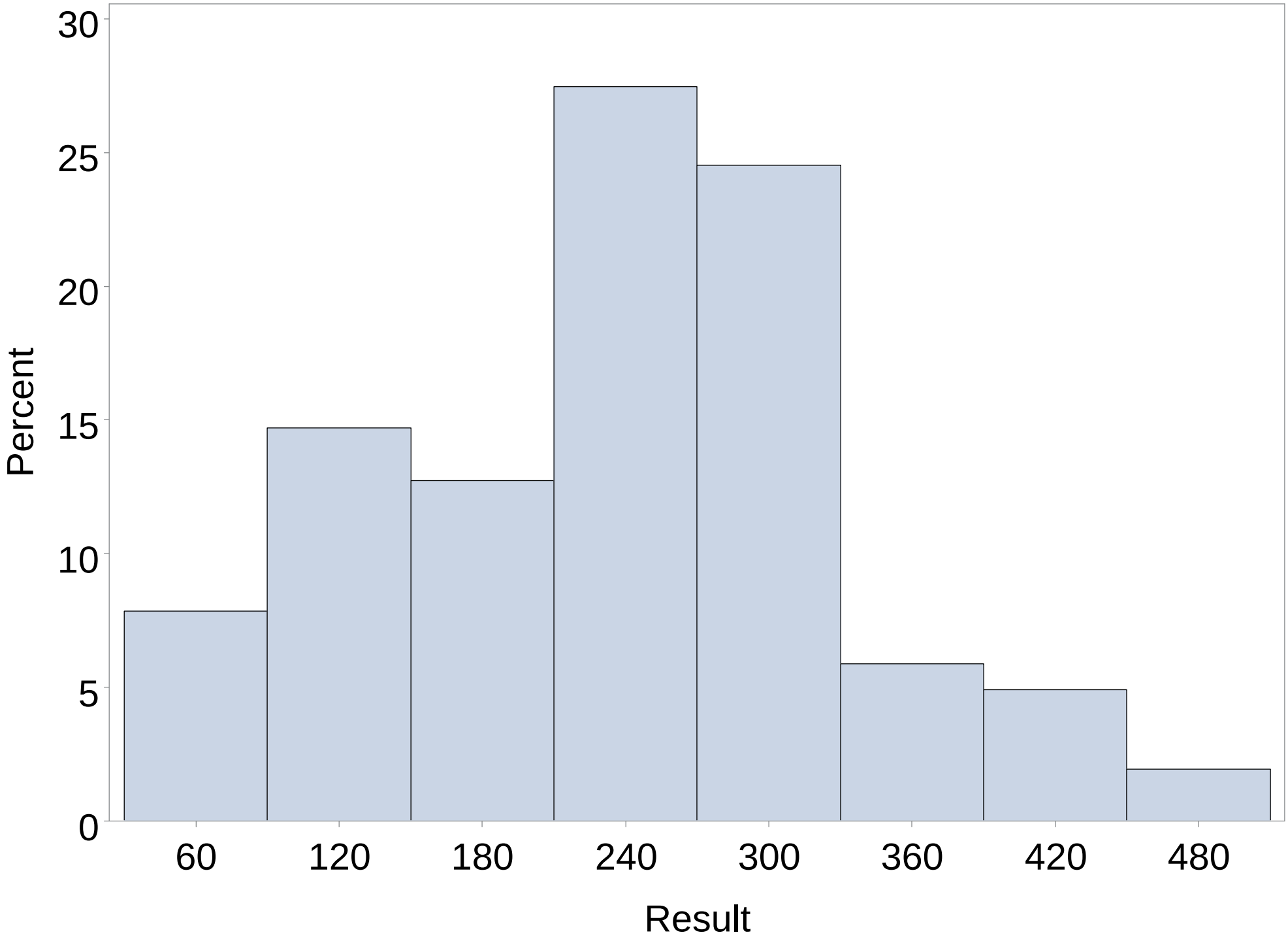
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.46409	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	466.0
99%	453.0
95%	392.0
90%	359.0
75% Q3	290.0
50% Median	246.0
25% Q1	166.0
10%	98.4
5%	83.0
1%	58.2
0% Min	45.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
45.8	60233	400	60194
58.2	60232	401	60165
64.0	60236	408	60187
66.9	60234	453	60160
76.0	60207	466	60171


Parameter=ORP_Surface STATION=7
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=8

Moments			
N	100	**Sum Weights**	100
Mean	231.6962	**Sum Observations**	23169.62
Std Deviation	97.2534281	**Variance**	9458.22928
Skewness	0.21880897	**Kurtosis**	-0.1983312
Uncorrected SS	6304677.61	**Corrected SS**	936364.699
Coeff Variation	41.974546	**Std Error Mean**	9.72534281

Basic Statistical Measures			
Location		**Variability**	
Mean	231.6962	**Std Deviation**	97.25343
Median	238.5000	**Variance**	9458
Mode	264.0000	**Range**	448.28000
		Interquartile Range	126.50000

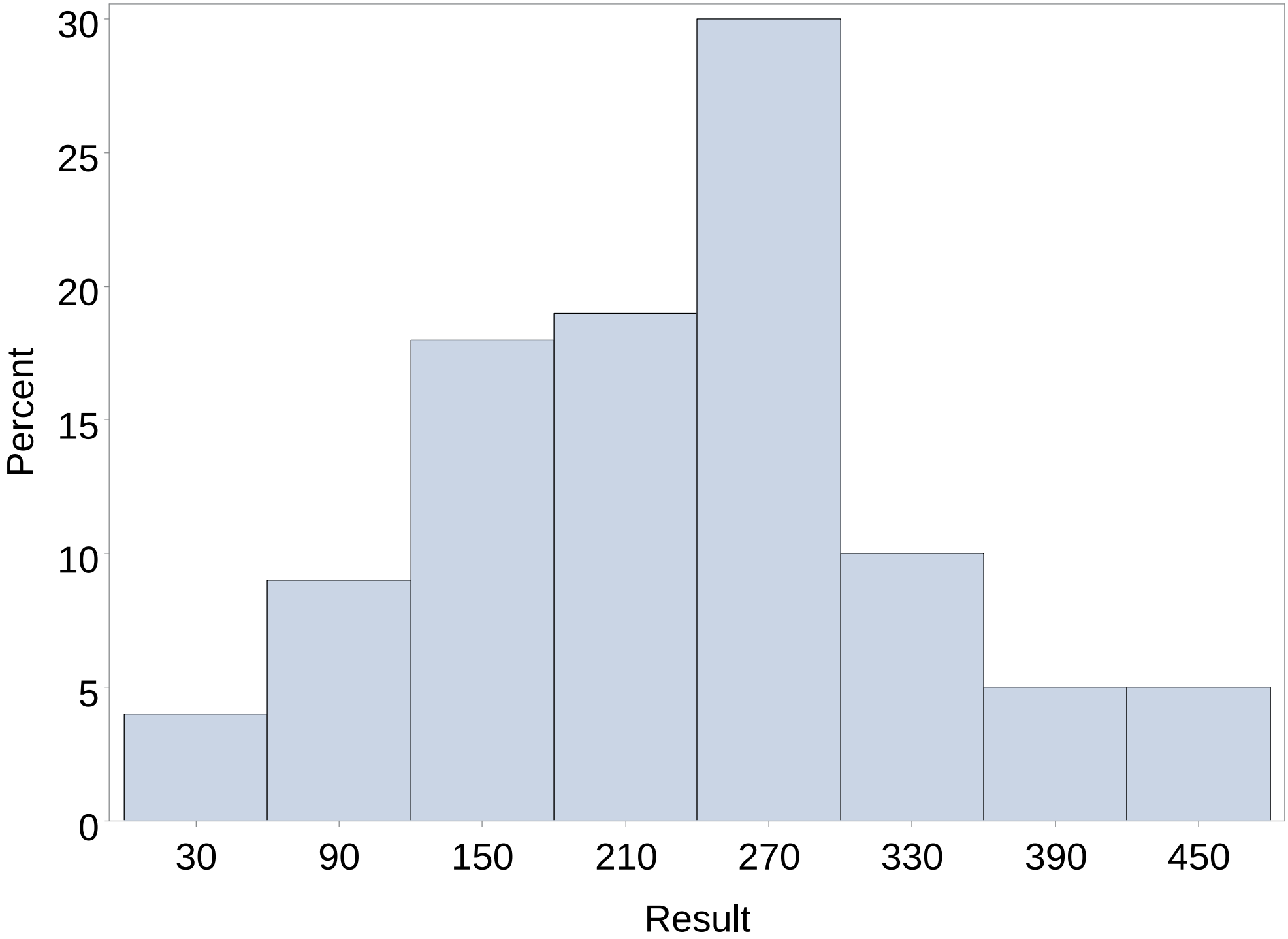
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.82396	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2525	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	474.00
99%	464.50
95%	411.00
90%	357.00
75% Q3	285.00
50% Median	238.50
25% Q1	158.50
10%	101.50
5%	72.65
1%	39.86
0% Min	25.72

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
25.72	60344	423	60267
54.00	60338	443	60273
55.30	60336	447	60262
59.80	60335	455	60304
68.30	60334	474	60296


Parameter=ORP_Surface STATION=8
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=9

Moments			
N	100	**Sum Weights**	100
Mean	233.026	**Sum Observations**	23302.6
Std Deviation	91.3997686	**Variance**	8353.9177
Skewness	0.30677796	**Kurtosis**	-0.0097497
Uncorrected SS	6257149.52	**Corrected SS**	827037.852
Coeff Variation	39.2229917	**Std Error Mean**	9.13997686

Basic Statistical Measures			
Location		**Variability**	
Mean	233.0260	**Std Deviation**	91.39977
Median	240.5000	**Variance**	8354
Mode	127.0000	**Range**	421.10000
		Interquartile Range	119.05000

Note: The mode displayed is the smallest of 9 modes with a count of 2.

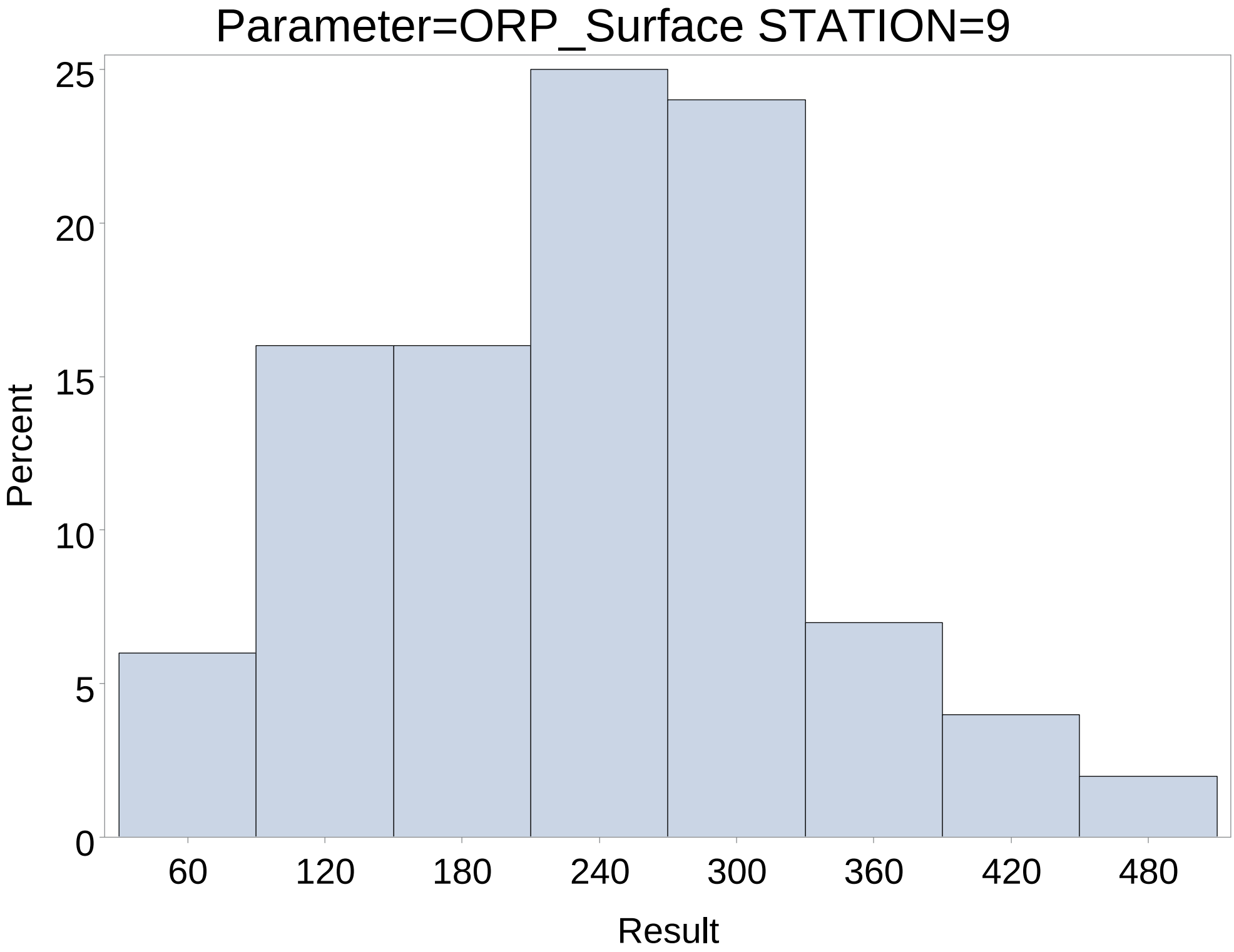
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.49525	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2525	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	480.00
99%	465.00
95%	399.50
90%	353.50
75% Q3	281.50
50% Median	240.50
25% Q1	162.45
10%	114.50
5%	82.00
1%	60.20
0% Min	58.90

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
58.9	60435	407	60389
61.5	60434	437	60373
75.7	60436	446	60362
78.0	60409	450	60396
81.0	60438	480	60404


Parameter=ORP_Surface STATION=9
Percent
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=10

Moments			
N	104	**Sum Weights**	104
Mean	244.948077	**Sum Observations**	25474.6
Std Deviation	117.350115	**Variance**	13771.0495
Skewness	-0.0207971	**Kurtosis**	-0.6860313
Uncorrected SS	7658372.38	**Corrected SS**	1418418.1
Coeff Variation	47.9081594	**Std Error Mean**	11.5071255

Basic Statistical Measures			
Location		**Variability**	
Mean	244.9481	**Std Deviation**	117.35012
Median	247.5000	**Variance**	13771
Mode	462.0000	**Range**	493.00000
		Interquartile Range	169.60000

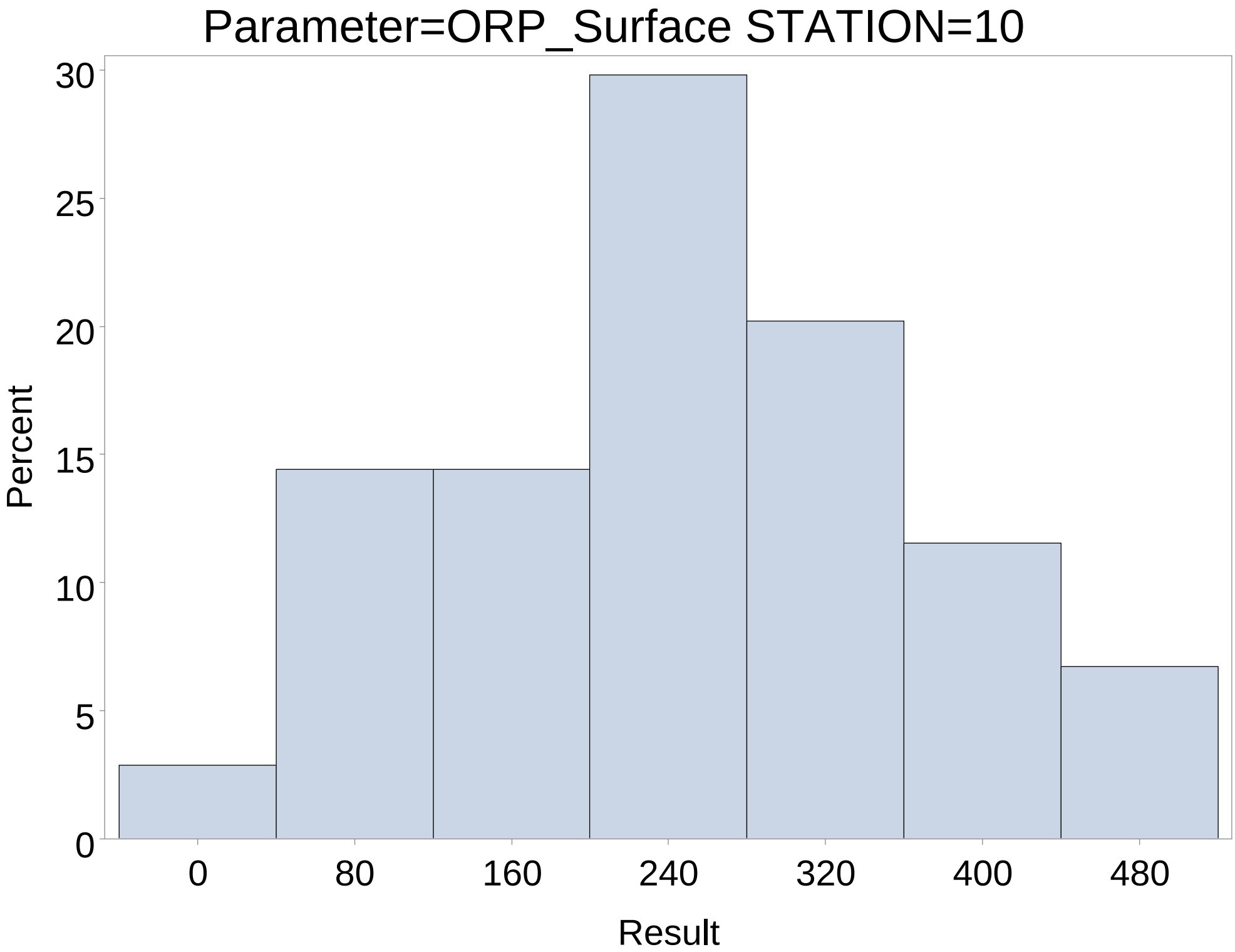
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.28664	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2729	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	474.0
99%	463.0
95%	447.0
90%	396.0
75% Q3	323.0
50% Median	247.5
25% Q1	153.4
10%	83.9
5%	70.0
1%	19.9
0% Min	-19.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-19.0	60479	462	60462
19.9	60538	462	60463
26.4	60536	462	60505
48.0	60533	463	60500
51.0	60540	474	60474


Parameter=ORP_Surface STATION=10
Percent
30
25
20
15
10
5
0
0
80
160
240
320
400
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=11

Moments			
N	101	**Sum Weights**	101
Mean	229.30495	**Sum Observations**	23159.8
Std Deviation	105.074599	**Variance**	11040.6713
Skewness	0.08653798	**Kurtosis**	-0.4105656
Uncorrected SS	6414723.92	**Corrected SS**	1104067.13
Coeff Variation	45.8230834	**Std Error Mean**	10.4553133

Basic Statistical Measures			
Location		**Variability**	
Mean	229.3050	**Std Deviation**	105.07460
Median	239.3000	**Variance**	11041
Mode	273.0000	**Range**	458.00000
		Interquartile Range	141.00000

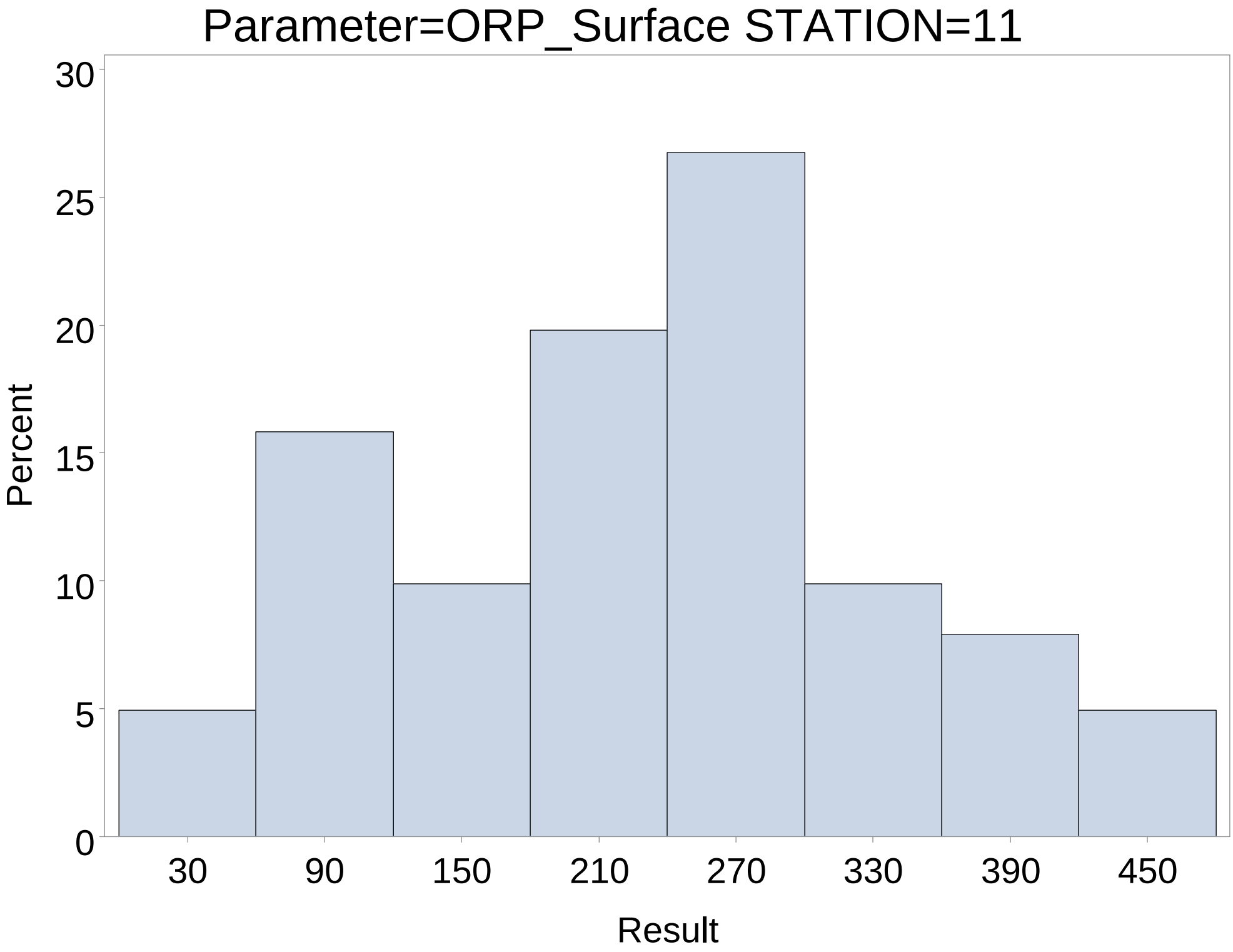
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.93191	**Pr > |t|**	<.0001
Sign	**M**	50.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2575.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	463.0
99%	463.0
95%	404.0
90%	379.0
75% Q3	291.0
50% Median	239.3
25% Q1	150.0
10%	89.2
5%	60.0
1%	32.3
0% Min	5.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.0	60582	421	60581
32.3	60640	443	60600
35.7	60638	460	60566
53.0	60635	463	60577
56.0	60628	463	60608


Parameter=ORP_Surface STATION=11
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=12

Moments			
N	102	**Sum Weights**	102
Mean	236.358824	**Sum Observations**	24108.6
Std Deviation	104.537901	**Variance**	10928.1727
Skewness	0.14623199	**Kurtosis**	-0.3865393
Uncorrected SS	6802025.78	**Corrected SS**	1103745.45
Coeff Variation	44.2284741	**Std Error Mean**	10.3507946

Basic Statistical Measures			
Location		**Variability**	
Mean	236.3588	**Std Deviation**	104.53790
Median	246.0000	**Variance**	10928
Mode	246.0000	**Range**	447.50000
		Interquartile Range	143.00000

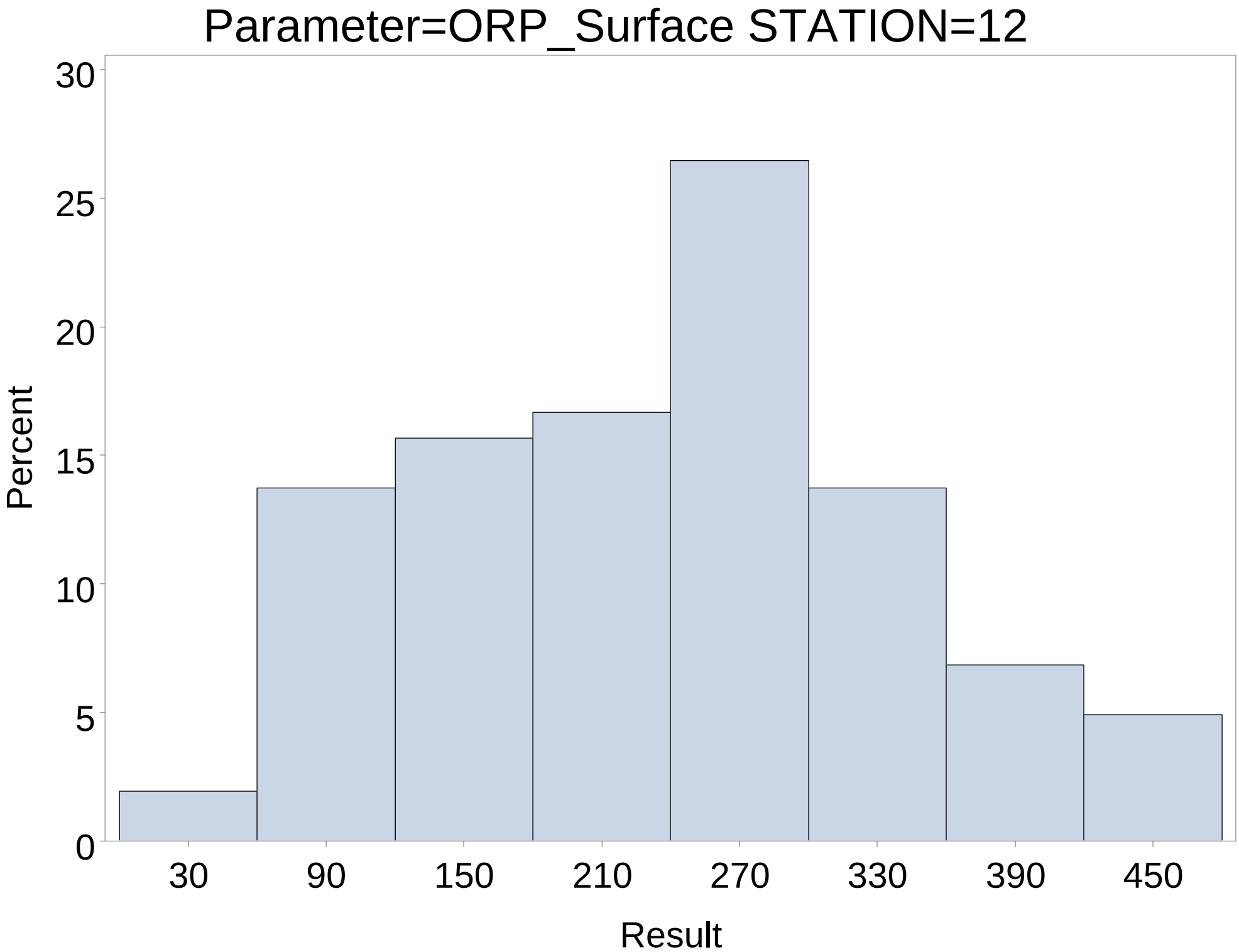
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.83485	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	476.0
99%	471.0
95%	397.0
90%	375.0
75% Q3	302.0
50% Median	246.0
25% Q1	159.0
10%	84.0
5%	74.0
1%	35.3
0% Min	28.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
28.5	60740	449	60701
35.3	60739	456	60667
63.0	60741	467	60704
65.0	60736	471	60709
72.0	60743	476	60678


Parameter=ORP_Surface STATION=12
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=13

Moments			
N	102	**Sum Weights**	102
Mean	236.376471	**Sum Observations**	24110.4
Std Deviation	100.819682	**Variance**	10164.6084
Skewness	0.09598767	**Kurtosis**	-0.4546474
Uncorrected SS	6725756.7	**Corrected SS**	1026625.44
Coeff Variation	42.652165	**Std Error Mean**	9.98263608

Basic Statistical Measures			
Location		**Variability**	
Mean	236.3765	**Std Deviation**	100.81968
Median	252.0000	**Variance**	10165
Mode	146.0000	**Range**	436.50000
		Interquartile Range	143.00000

Note: The mode displayed is the smallest of 8 modes with a count of 2.

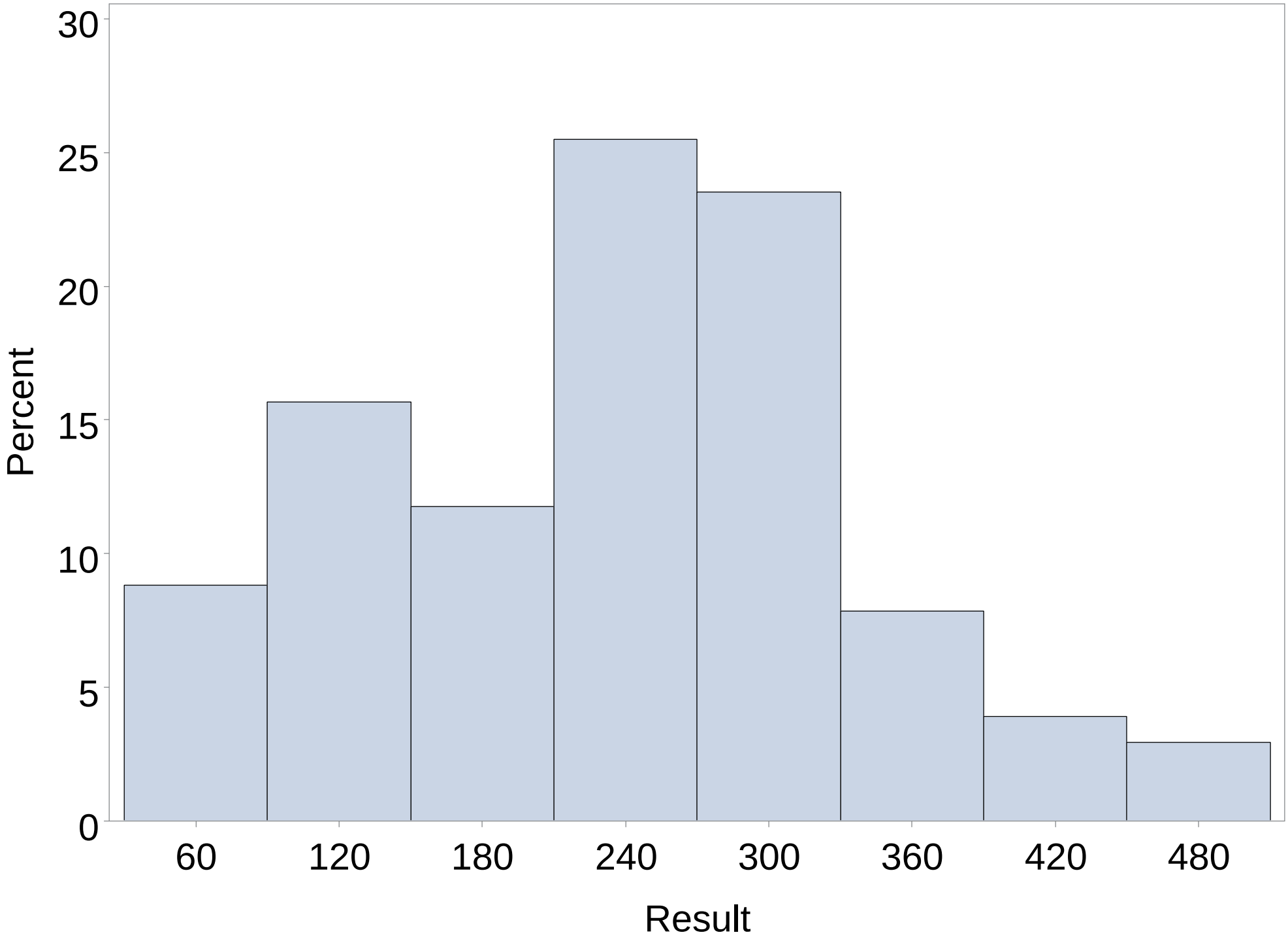
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.67876	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	476.0
99%	474.0
95%	393.0
90%	373.0
75% Q3	296.0
50% Median	252.0
25% Q1	153.0
10%	95.6
5%	77.0
1%	47.8
0% Min	39.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
39.5	60842	395	60777
47.8	60841	440	60803
67.0	60816	455	60769
68.0	60838	474	60811
72.0	60845	476	60780


Parameter=ORP_Surface STATION=13
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=14

Moments			
N	101	**Sum Weights**	101
Mean	237.437624	**Sum Observations**	23981.2
Std Deviation	101.380094	**Variance**	10277.9234
Skewness	0.14848857	**Kurtosis**	-0.451541
Uncorrected SS	6721831.48	**Corrected SS**	1027792.34
Coeff Variation	42.6975691	**Std Error Mean**	10.0876963

Basic Statistical Measures			
Location		**Variability**	
Mean	237.4376	**Std Deviation**	101.38009
Median	241.1000	**Variance**	10278
Mode	258.0000	**Range**	426.80000
		Interquartile Range	139.00000

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

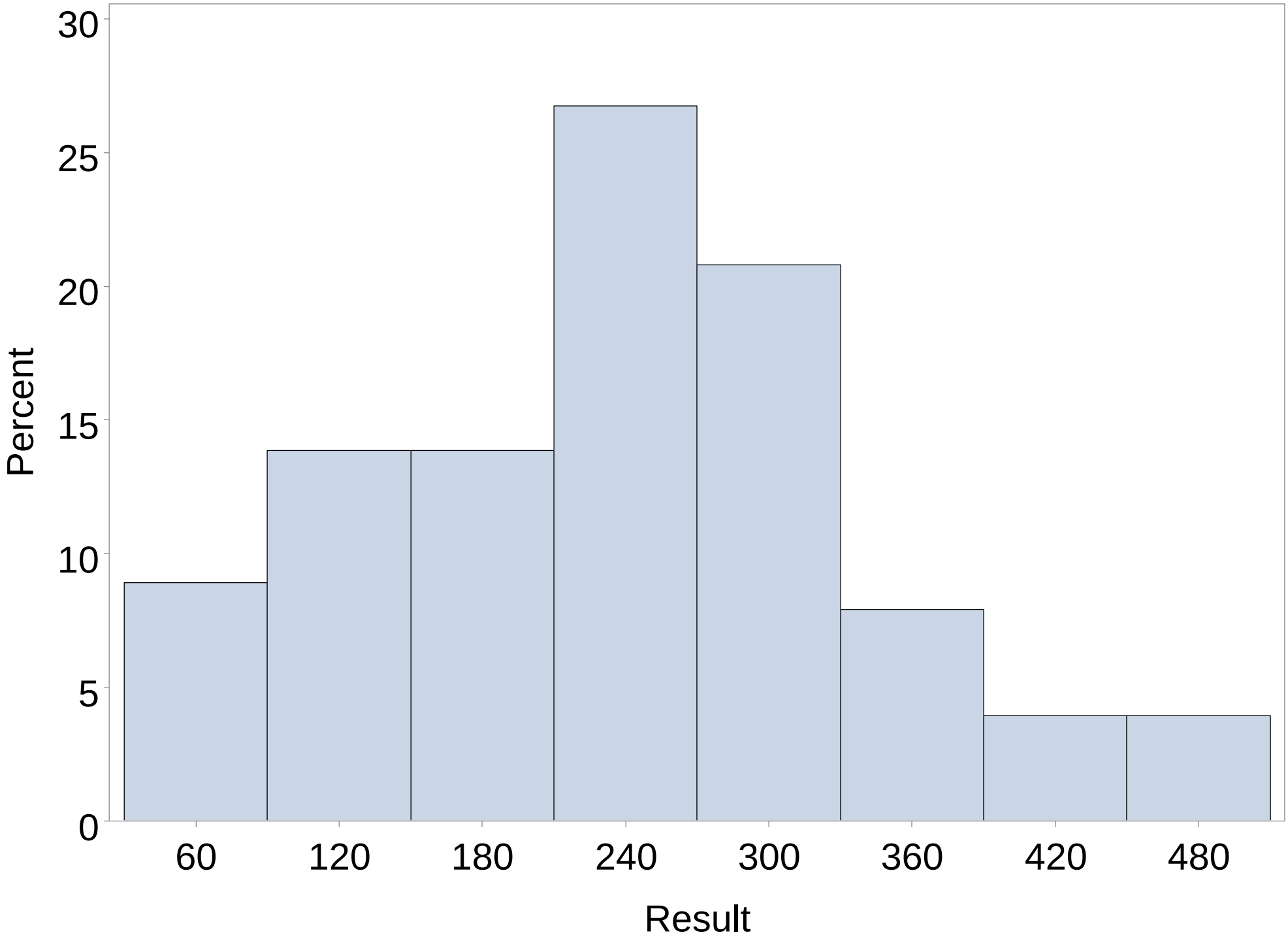
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.53735	**Pr > |t|**	<.0001
Sign	**M**	50.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2575.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	474.0
99%	463.0
95%	401.0
90%	376.0
75% Q3	299.0
50% Median	241.1
25% Q1	160.0
10%	92.0
5%	78.0
1%	52.0
0% Min	47.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
47.2	60943	416	60897
52.0	60942	453	60871
61.0	60946	453	60904
65.0	60917	463	60882
72.5	60944	474	60912


Parameter=ORP_Surface STATION=14
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=15

Moments			
N	102	**Sum Weights**	102
Mean	240.016667	**Sum Observations**	24481.7
Std Deviation	99.1074875	**Variance**	9822.29408
Skewness	0.14679684	**Kurtosis**	-0.2583055
Uncorrected SS	6868067.73	**Corrected SS**	992051.702
Coeff Variation	41.291919	**Std Error Mean**	9.81310352

Basic Statistical Measures			
Location		**Variability**	
Mean	240.0167	**Std Deviation**	99.10749
Median	245.3000	**Variance**	9822
Mode	279.0000	**Range**	429.50000
		Interquartile Range	130.90000

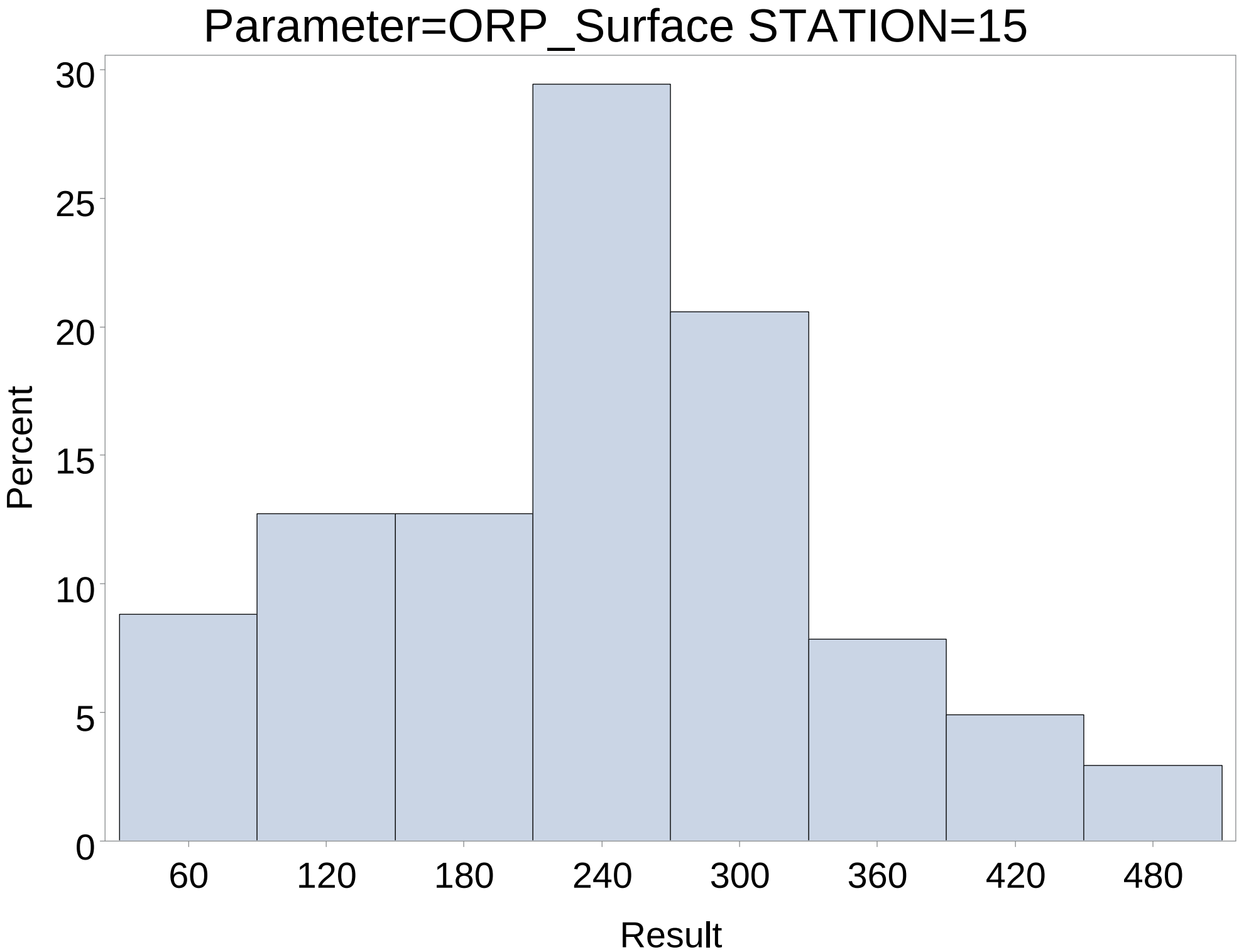
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.45879	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	476.0
99%	473.0
95%	404.0
90%	368.0
75% Q3	295.0
50% Median	245.3
25% Q1	164.1
10%	104.1
5%	76.0
1%	57.6
0% Min	46.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
46.5	61045	409	60977
57.6	61044	446	60972
59.4	61046	464	61006
65.0	61048	473	60983
74.0	61041	476	61014


Parameter=ORP_Surface STATION=15
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=16

Moments			
N	102	**Sum Weights**	102
Mean	235.35	**Sum Observations**	24005.7
Std Deviation	93.1638679	**Variance**	8679.50629
Skewness	0.20589194	**Kurtosis**	-0.0714163
Uncorrected SS	6526371.63	**Corrected SS**	876630.135
Coeff Variation	39.5852424	**Std Error Mean**	9.22459749

Basic Statistical Measures			
Location		**Variability**	
Mean	235.3500	**Std Deviation**	93.16387
Median	242.0000	**Variance**	8680
Mode	257.0000	**Range**	416.50000
		Interquartile Range	116.10000

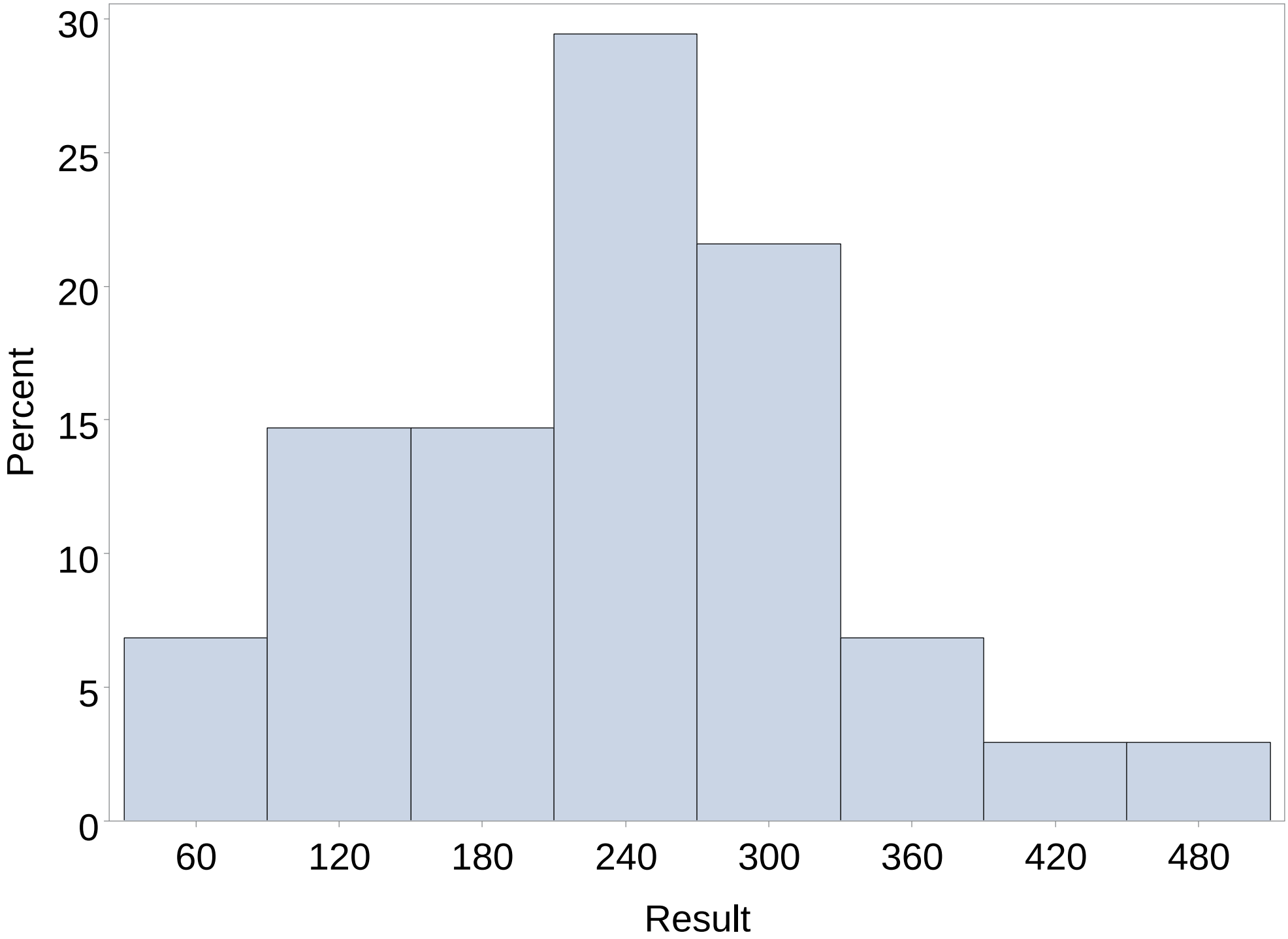
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.51331	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	472.0
99%	461.0
95%	390.0
90%	356.0
75% Q3	284.0
50% Median	242.0
25% Q1	167.9
10%	107.5
5%	82.0
1%	59.2
0% Min	55.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
55.5	61147	395	61125
59.2	61146	449	61074
72.0	61150	454	61085
75.8	61148	461	61108
78.0	61114	472	61116


Parameter=ORP_Surface STATION=16
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=17

Moments			
N	102	**Sum Weights**	102
Mean	233.418627	**Sum Observations**	23808.7
Std Deviation	90.8177434	**Variance**	8247.86252
Skewness	0.28426302	**Kurtosis**	0.01867696
Uncorrected SS	6390428.19	**Corrected SS**	833034.115
Coeff Variation	38.9076675	**Std Error Mean**	8.99229655

Basic Statistical Measures			
Location		**Variability**	
Mean	233.4186	**Std Deviation**	90.81774
Median	240.5000	**Variance**	8248
Mode	212.0000	**Range**	418.90000
		Interquartile Range	126.00000

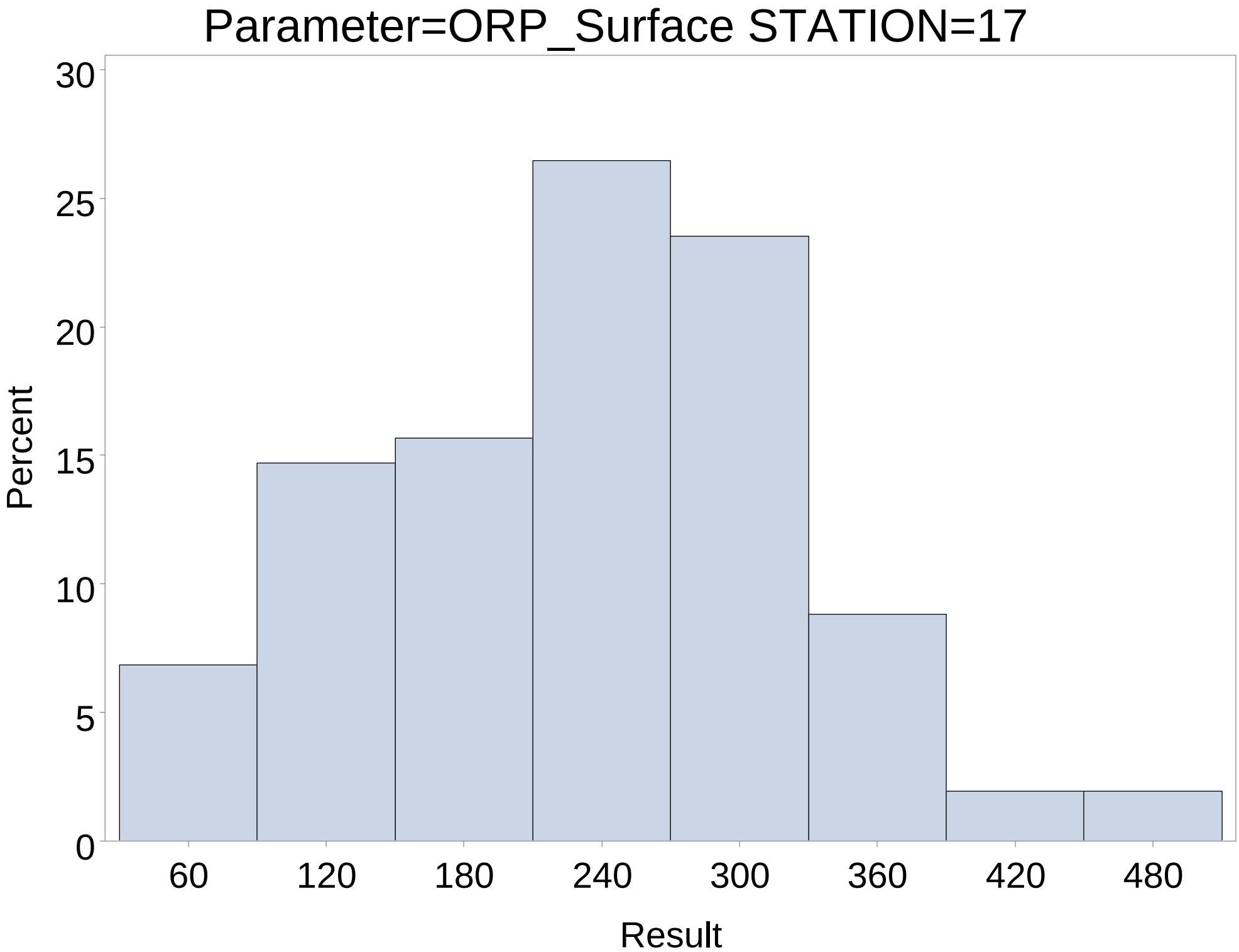
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.95762	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	478.0
99%	464.0
95%	388.0
90%	349.0
75% Q3	287.0
50% Median	240.5
25% Q1	161.0
10%	120.0
5%	84.0
1%	63.9
0% Min	59.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
59.1	61249	389	61203
63.9	61248	437	61187
76.9	61250	446	61176
79.0	61252	464	61210
81.0	61223	478	61218


Parameter=ORP_Surface STATION=17
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=18

Moments			
N	100	**Sum Weights**	100
Mean	230.317	**Sum Observations**	23031.7
Std Deviation	93.6387568	**Variance**	8768.21678
Skewness	0.16116477	**Kurtosis**	-0.1099574
Uncorrected SS	6172645.51	**Corrected SS**	868053.461
Coeff Variation	40.6564677	**Std Error Mean**	9.36387568

Basic Statistical Measures			
Location		**Variability**	
Mean	230.3170	**Std Deviation**	93.63876
Median	237.5000	**Variance**	8768
Mode	143.0000	**Range**	458.00000
		Interquartile Range	131.00000

Note: The mode displayed is the smallest of 7 modes with a count of 2.

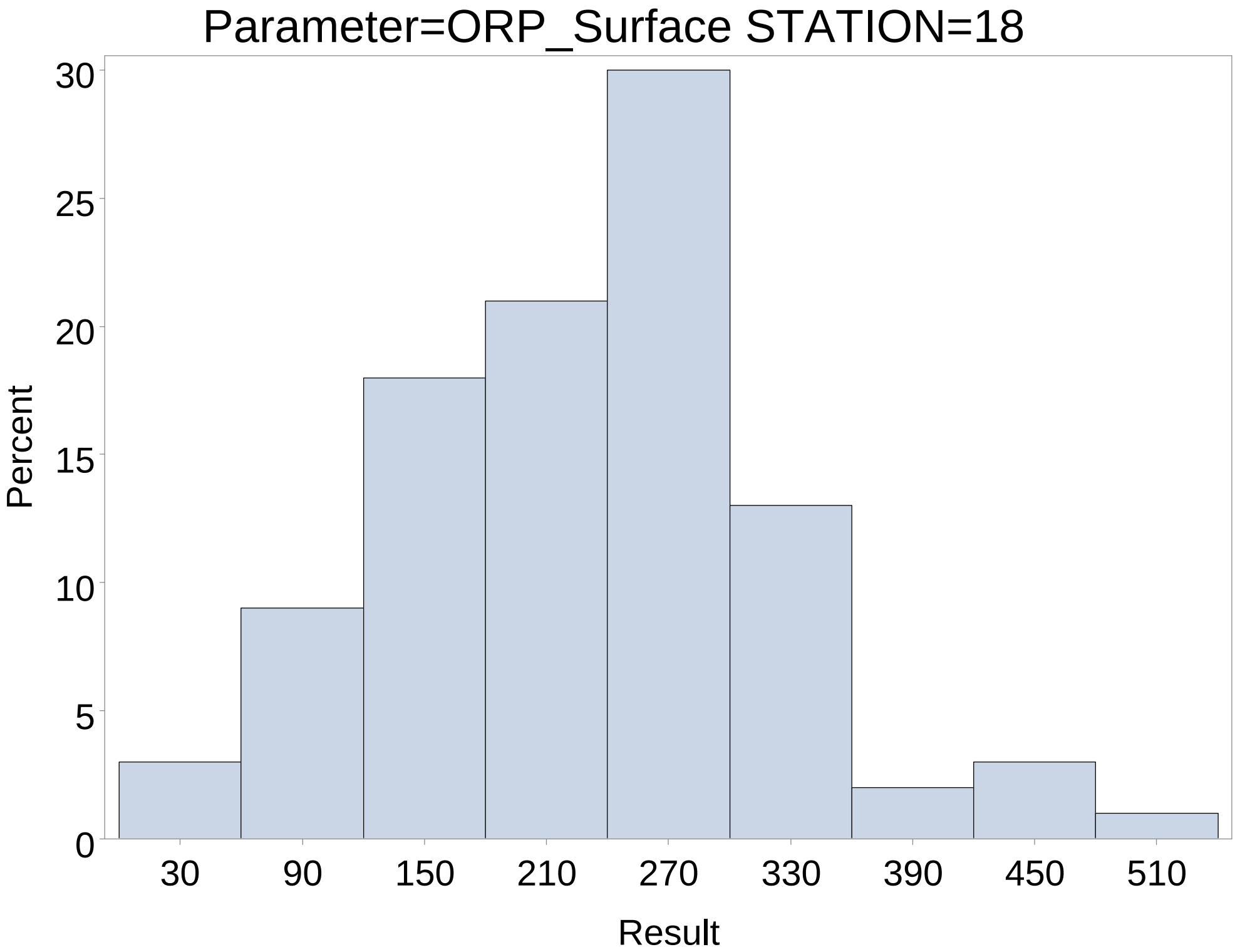
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.59633	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2525	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	484.0
99%	462.0
95%	398.0
90%	344.0
75% Q3	286.0
50% Median	237.5
25% Q1	155.0
10%	103.8
5%	71.5
1%	40.5
0% Min	26.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
26.0	61333	400	61319
55.0	61353	437	61283
58.4	61351	438	61289
64.1	61350	440	61278
71.0	61324	484	61311


Parameter=ORP_Surface STATION=18
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
510
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=19

Moments			
N	102	**Sum Weights**	102
Mean	231.958824	**Sum Observations**	23659.8
Std Deviation	92.0877631	**Variance**	8480.15611
Skewness	0.37075777	**Kurtosis**	0.02889
Uncorrected SS	6344595.14	**Corrected SS**	856495.767
Coeff Variation	39.7000475	**Std Error Mean**	9.11804724

Basic Statistical Measures			
Location		**Variability**	
Mean	231.9588	**Std Deviation**	92.08776
Median	234.9000	**Variance**	8480
Mode	138.0000	**Range**	416.10000
		Interquartile Range	115.80000

Note: The mode displayed is the smallest of 11 modes with a count of 2.

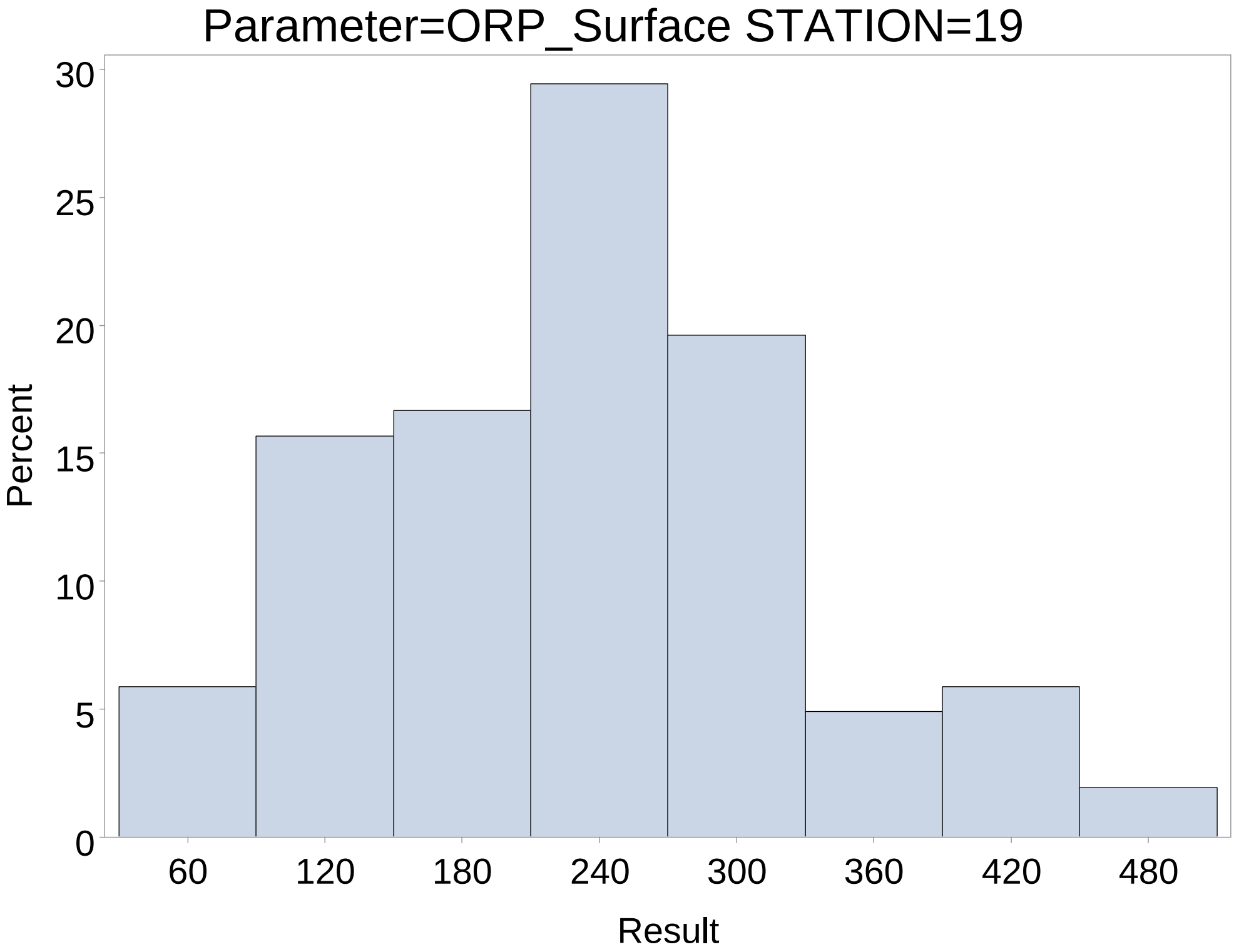
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.43953	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	473.0
99%	458.0
95%	411.0
90%	350.0
75% Q3	279.0
50% Median	234.9
25% Q1	163.2
10%	120.0
5%	82.0
1%	62.0
0% Min	56.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
56.9	61451	416	61415
62.0	61418	428	61389
67.5	61450	448	61378
77.0	61425	458	61412
78.6	61452	473	61420


Parameter=ORP_Surface STATION=19
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=22

Moments			
N	1	Sum Weights	1
Mean	282	Sum Observations	282
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	79524	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	282.0000	Std Deviation	.
Median	282.0000	Variance	.
Mode	282.0000	Range	0
		Interquartile Range	0

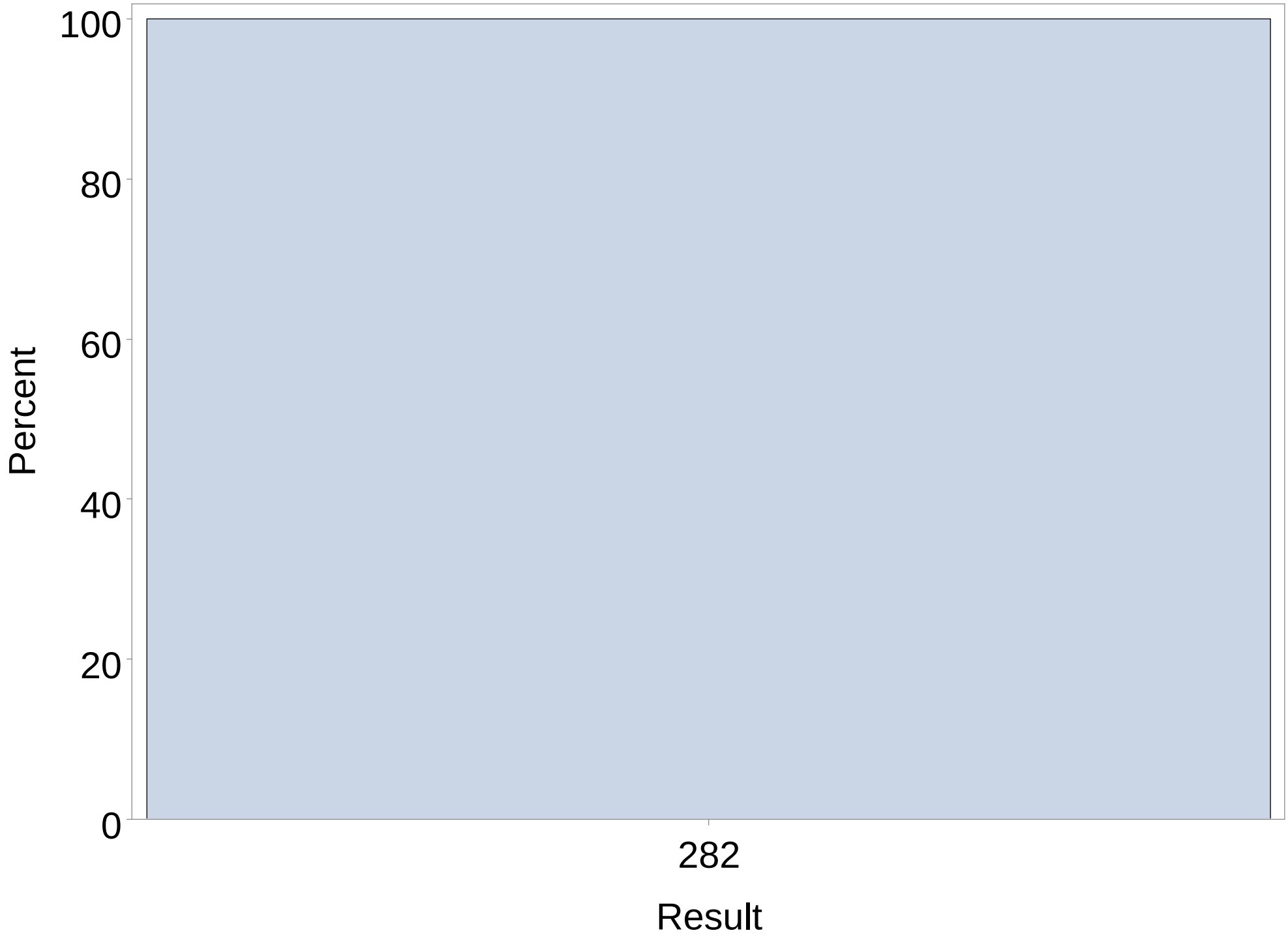
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	282
99%	282
95%	282
90%	282
75% Q3	282
50% Median	282
25% Q1	282
10%	282
5%	282
1%	282
0% Min	282

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_Surface STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
282	61479	282	61479


Parameter=ORP_Surface STATION=22
100
80
60
40
20
0
Percent
282
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=1

Moments			
N	103	**Sum Weights**	103
Mean	248.77526	**Sum Observations**	25623.8518
Std Deviation	114.094964	**Variance**	13017.6608
Skewness	-0.2170007	**Kurtosis**	-0.8070783
Uncorrected SS	7702381.79	**Corrected SS**	1327801.4
Coeff Variation	45.862665	**Std Error Mean**	11.2421109

Basic Statistical Measures			
Location		**Variability**	
Mean	248.7753	**Std Deviation**	114.09496
Median	274.5000	**Variance**	13018
Mode	134.0000	**Range**	454.87143
		Interquartile Range	193.84127

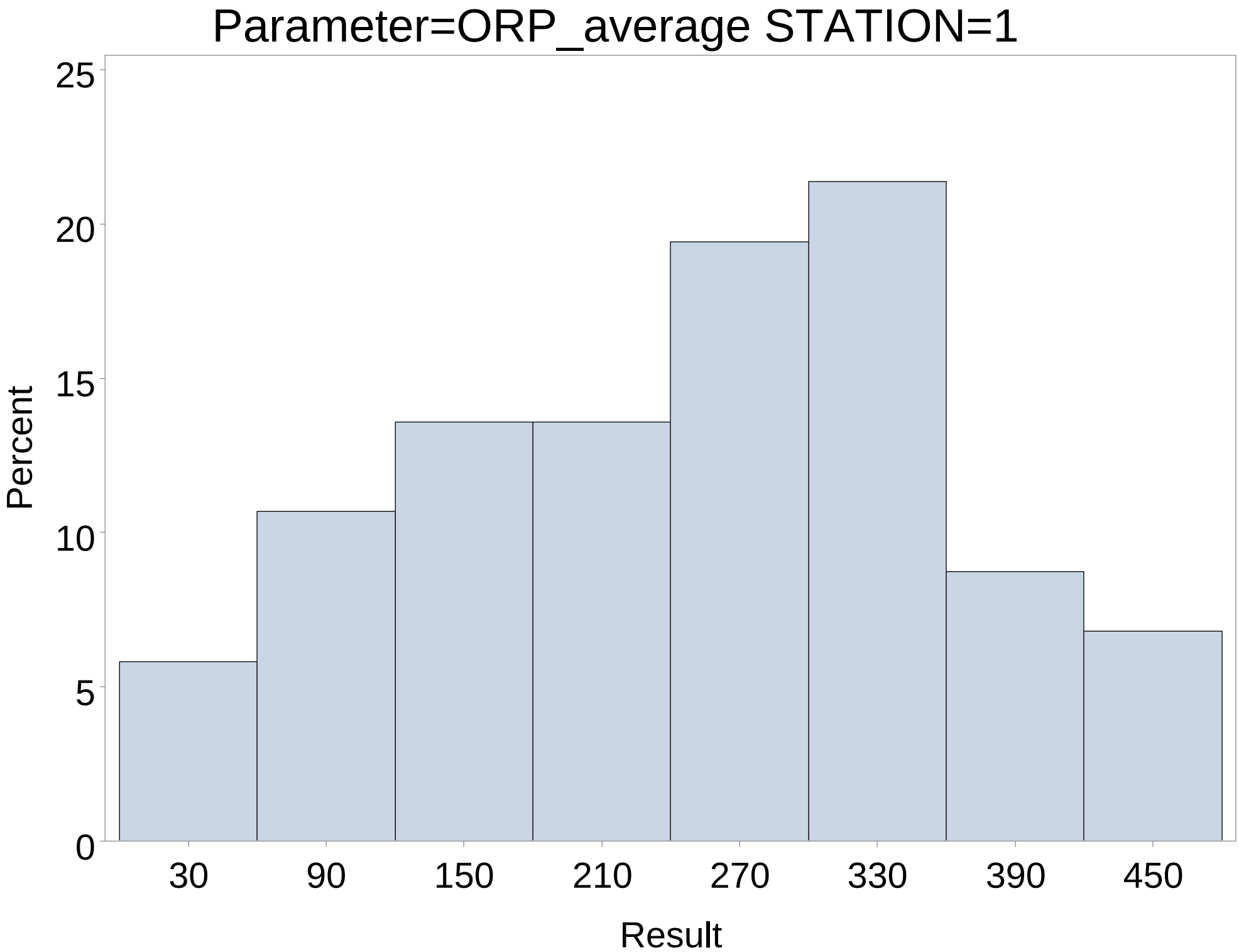
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.12887	**Pr > |t|**	<.0001
Sign	**M**	51.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2678	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	461.5714
99%	452.6250
95%	423.2500
90%	406.7500
75% Q3	336.5556
50% Median	274.5000
25% Q1	142.7143
10%	96.2429
5%	52.7250
1%	6.8200
0% Min	6.7000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.7000	61556	430.875	61486
6.8200	61551	432.125	61507
22.0000	61549	433.625	61508
36.4286	61558	452.625	61515
46.8333	61559	461.571	61492


Parameter=ORP_average STATION=1
25
20
15
10
5
0
Percent
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=2

Moments			
N	102	**Sum Weights**	102
Mean	235.896407	**Sum Observations**	24061.4335
Std Deviation	100.851788	**Variance**	10171.0831
Skewness	-0.3093319	**Kurtosis**	-0.7399297
Uncorrected SS	6703285.11	**Corrected SS**	1027279.39
Coeff Variation	42.7525747	**Std Error Mean**	9.98581498

Basic Statistical Measures			
Location		**Variability**	
Mean	235.8964	**Std Deviation**	100.85179
Median	255.7500	**Variance**	10171
Mode	312.2500	**Range**	406.37500
		Interquartile Range	159.65397

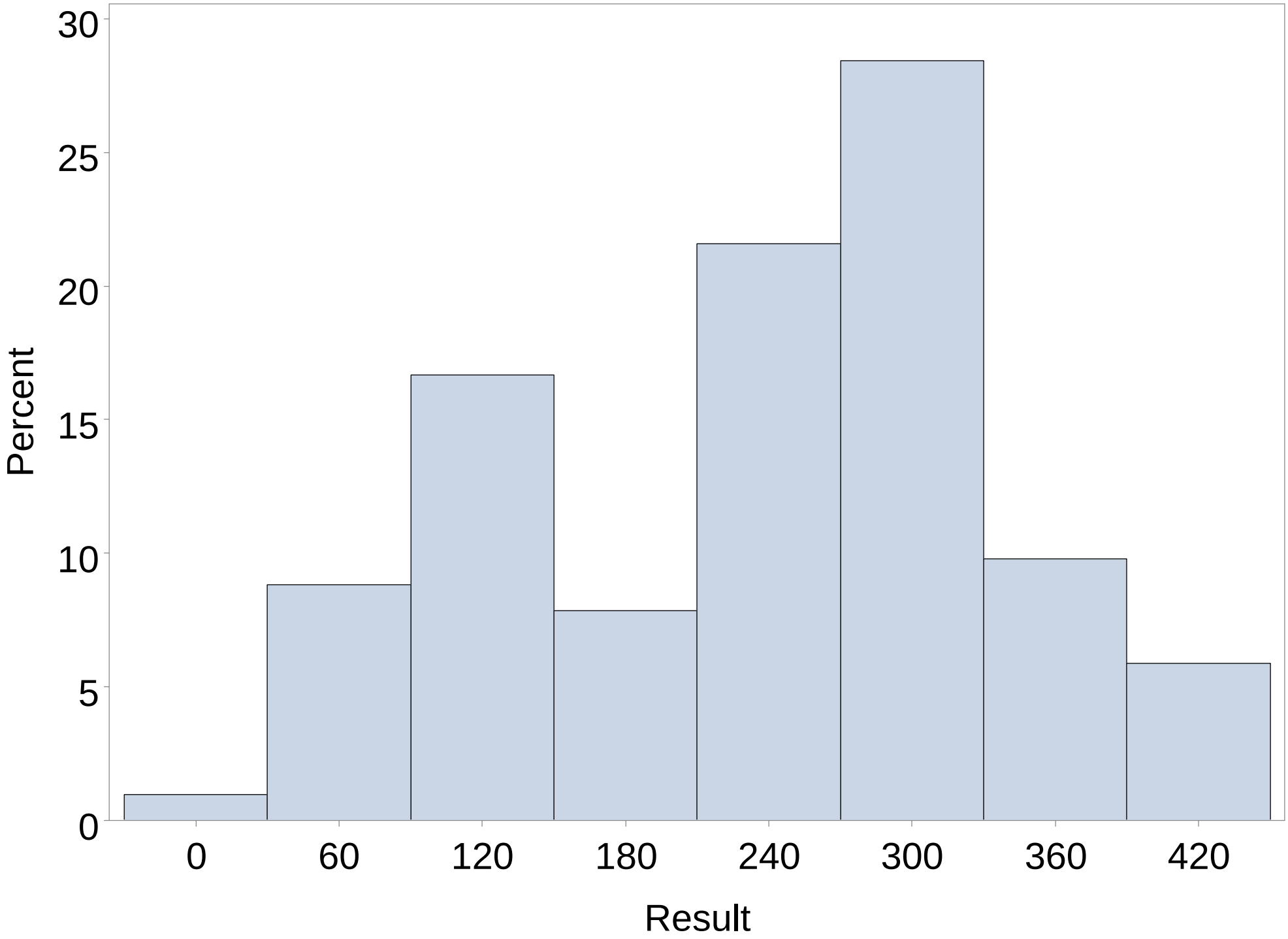
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.62315	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	426.2500
99%	418.3333
95%	393.7500
90%	357.5000
75% Q3	303.1111
50% Median	255.7500
25% Q1	143.4571
10%	91.1111
5%	66.5714
1%	30.1286
0% Min	19.8750

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
19.8750	61654	398.822	61663
30.1286	61659	400.857	61593
32.8778	61657	409.778	61584
48.0000	61661	418.333	61637
51.1250	61662	426.250	61618


Parameter=ORP_average STATION=2
Percent
30
25
20
15
10
5
0
0
60
120
180
240
300
360
420
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=3

Moments			
N	102	**Sum Weights**	102
Mean	235.235521	**Sum Observations**	23994.0231
Std Deviation	110.571618	**Variance**	12226.0827
Skewness	-0.295755	**Kurtosis**	-0.5655923
Uncorrected SS	6879080.87	**Corrected SS**	1234834.36
Coeff Variation	47.0046436	**Std Error Mean**	10.9482216

Basic Statistical Measures			
Location		**Variability**	
Mean	235.2355	**Std Deviation**	110.57162
Median	261.0000	**Variance**	12226
Mode	.	**Range**	492.55556
		Interquartile Range	168.08000

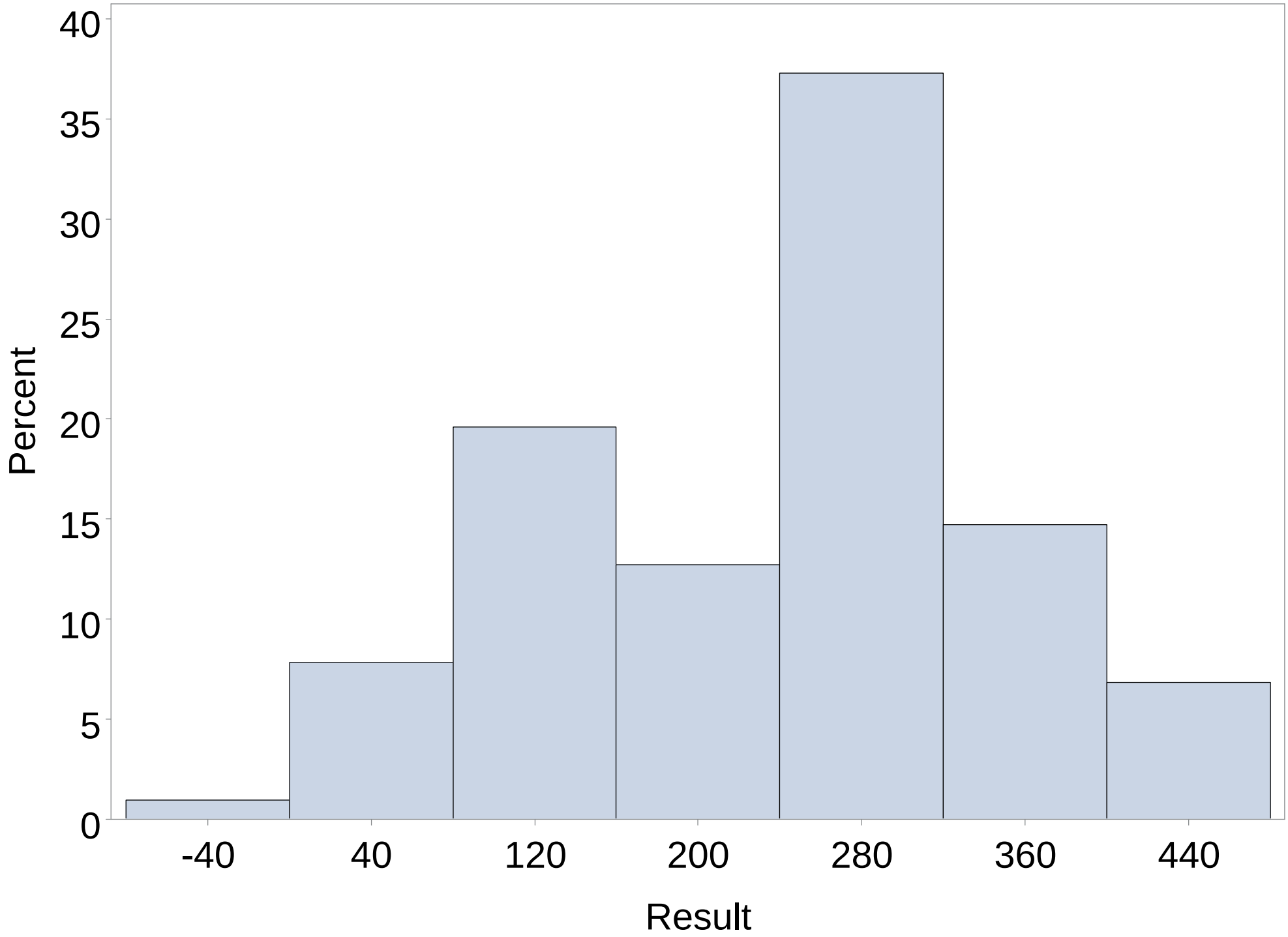
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.48619	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2621.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	449.1111
99%	443.8000
95%	419.8750
90%	372.1250
75% Q3	309.0000
50% Median	261.0000
25% Q1	140.9200
10%	81.9800
5%	60.2500
1%	24.2500
0% Min	-43.4444

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-43.4444	61702	420.778	61695
24.2500	61763	423.750	61723
27.0000	61756	437.400	61720
27.1000	61761	443.800	61739
32.0400	61759	449.111	61711


Parameter=ORP_average STATION=3
Percent
0
5
10
15
20
25
30
35
40
-40
40
120
200
280
360
440
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=4

Moments			
N	102	**Sum Weights**	102
Mean	241.27943	**Sum Observations**	24610.5019
Std Deviation	103.672604	**Variance**	10748.0089
Skewness	-0.1708885	**Kurtosis**	-0.6025088
Uncorrected SS	7023556.78	**Corrected SS**	1085548.9
Coeff Variation	42.9678585	**Std Error Mean**	10.2651174

Basic Statistical Measures			
Location		**Variability**	
Mean	241.2794	**Std Deviation**	103.67260
Median	259.8500	**Variance**	10748
Mode	.	**Range**	471.89643
		Interquartile Range	151.71429

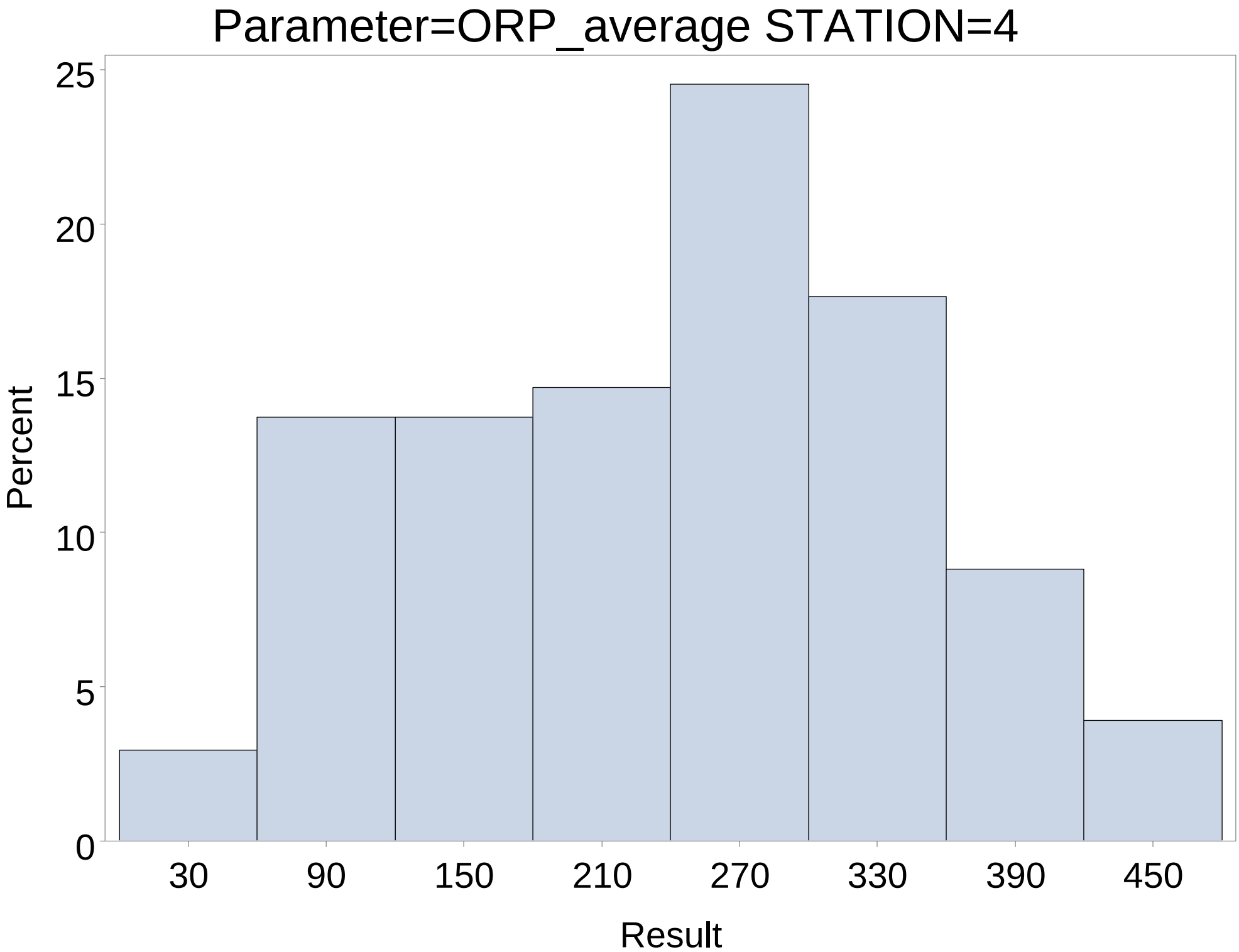
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.50479	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	474.5714
99%	442.6667
95%	406.1667
90%	372.2500
75% Q3	307.0000
50% Median	259.8500
25% Q1	155.2857
10%	91.4000
5%	78.1667
1%	34.2000
0% Min	2.6750

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.6750	61861	406.571	61802
34.2000	61862	435.111	61788
38.8667	61860	436.143	61822
61.3333	61857	442.667	61830
67.8333	61864	474.571	61799


Parameter=ORP_average STATION=4
Percent
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=5

Moments			
N	103	**Sum Weights**	103
Mean	244.217215	**Sum Observations**	25154.3731
Std Deviation	99.3420814	**Variance**	9868.84914
Skewness	-0.1041455	**Kurtosis**	-0.5487374
Uncorrected SS	7149753.54	**Corrected SS**	1006622.61
Coeff Variation	40.6777555	**Std Error Mean**	9.78846614

Basic Statistical Measures			
Location		**Variability**	
Mean	244.2172	**Std Deviation**	99.34208
Median	254.2000	**Variance**	9869
Mode	88.8000	**Range**	422.53333
		Interquartile Range	145.70000

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

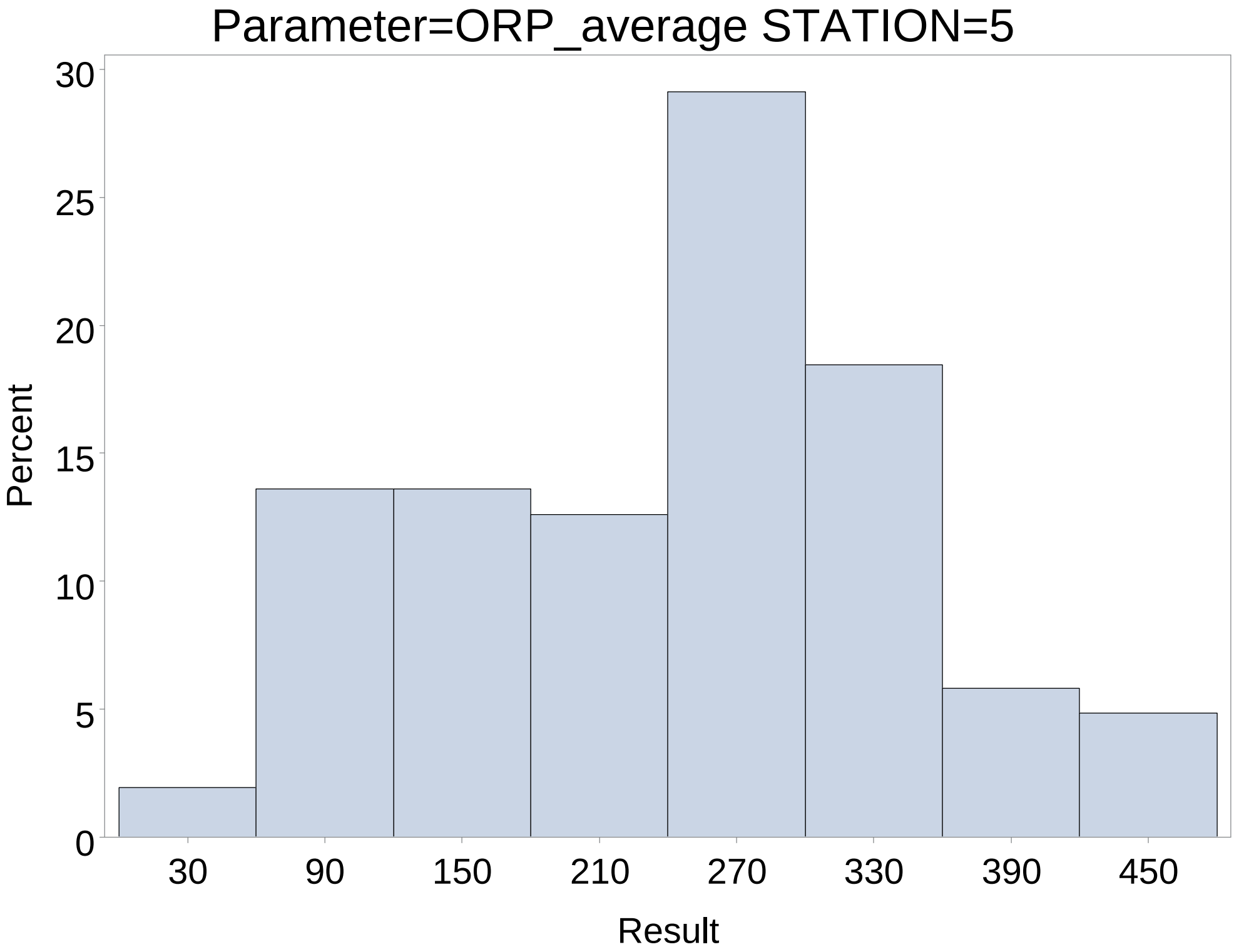
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.94949	**Pr > |t|**	<.0001
Sign	**M**	51.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2678	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	466.0000
99%	448.5714
95%	394.2000
90%	361.7143
75% Q3	304.5000
50% Median	254.2000
25% Q1	158.8000
10%	95.4200
5%	84.2833
1%	51.8600
0% Min	43.4667

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
43.4667	61964	435.667	61890
51.8600	61963	439.400	61918
61.5000	61967	448.200	61925
71.6000	61960	448.571	61933
72.8333	61938	466.000	61901


Parameter=ORP_average STATION=5
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=6

Moments			
N	102	**Sum Weights**	102
Mean	244.897304	**Sum Observations**	24979.525
Std Deviation	100.155853	**Variance**	10031.1949
Skewness	0.02608046	**Kurtosis**	-0.4600213
Uncorrected SS	7130569.01	**Corrected SS**	1013150.69
Coeff Variation	40.8970828	**Std Error Mean**	9.91690719

Basic Statistical Measures			
Location		**Variability**	
Mean	244.8973	**Std Deviation**	100.15585
Median	256.4100	**Variance**	10031
Mode	295.2500	**Range**	426.95000
		Interquartile Range	138.45000

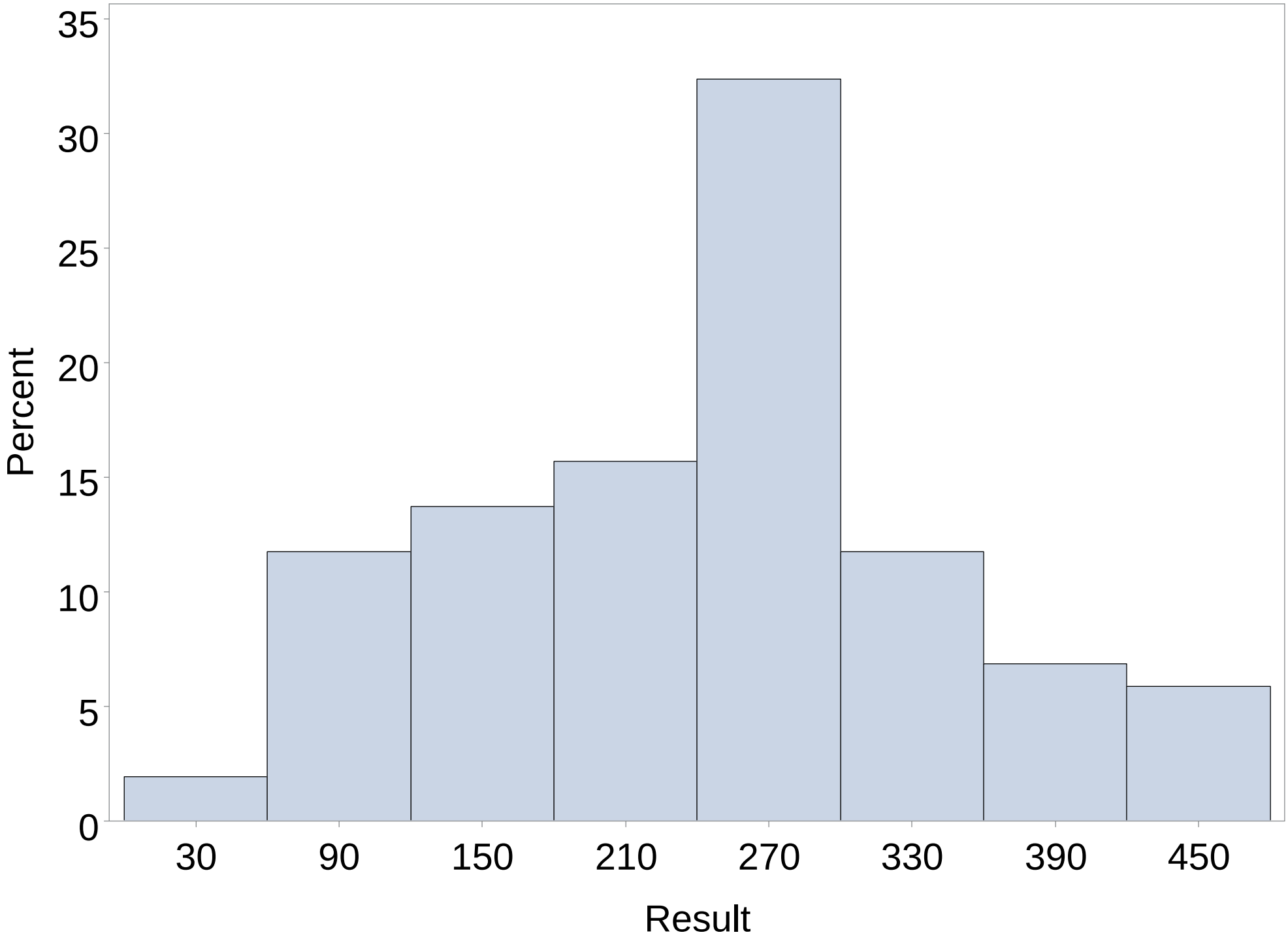
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.69493	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	468.250
99%	452.600
95%	427.750
90%	380.750
75% Q3	299.250
50% Median	256.410
25% Q1	160.800
10%	100.800
5%	75.600
1%	56.225
0% Min	41.300

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
41.300	62066	433.25	62020
56.225	62065	448.40	62012
65.000	62069	450.25	62027
65.520	62067	452.60	62035
75.000	62062	468.25	62004


Parameter=ORP_average STATION=6
Percent
35
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=7

Moments			
N	102	**Sum Weights**	102
Mean	239.128252	**Sum Observations**	24391.0817
Std Deviation	91.3318089	**Variance**	8341.49932
Skewness	-0.0982438	**Kurtosis**	-0.4206605
Uncorrected SS	6675088.15	**Corrected SS**	842491.432
Coeff Variation	38.1936506	**Std Error Mean**	9.04319662

Basic Statistical Measures			
Location		**Variability**	
Mean	239.1283	**Std Deviation**	91.33181
Median	256.0125	**Variance**	8341
Mode	295.0000	**Range**	402.16000
		Interquartile Range	131.00000

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

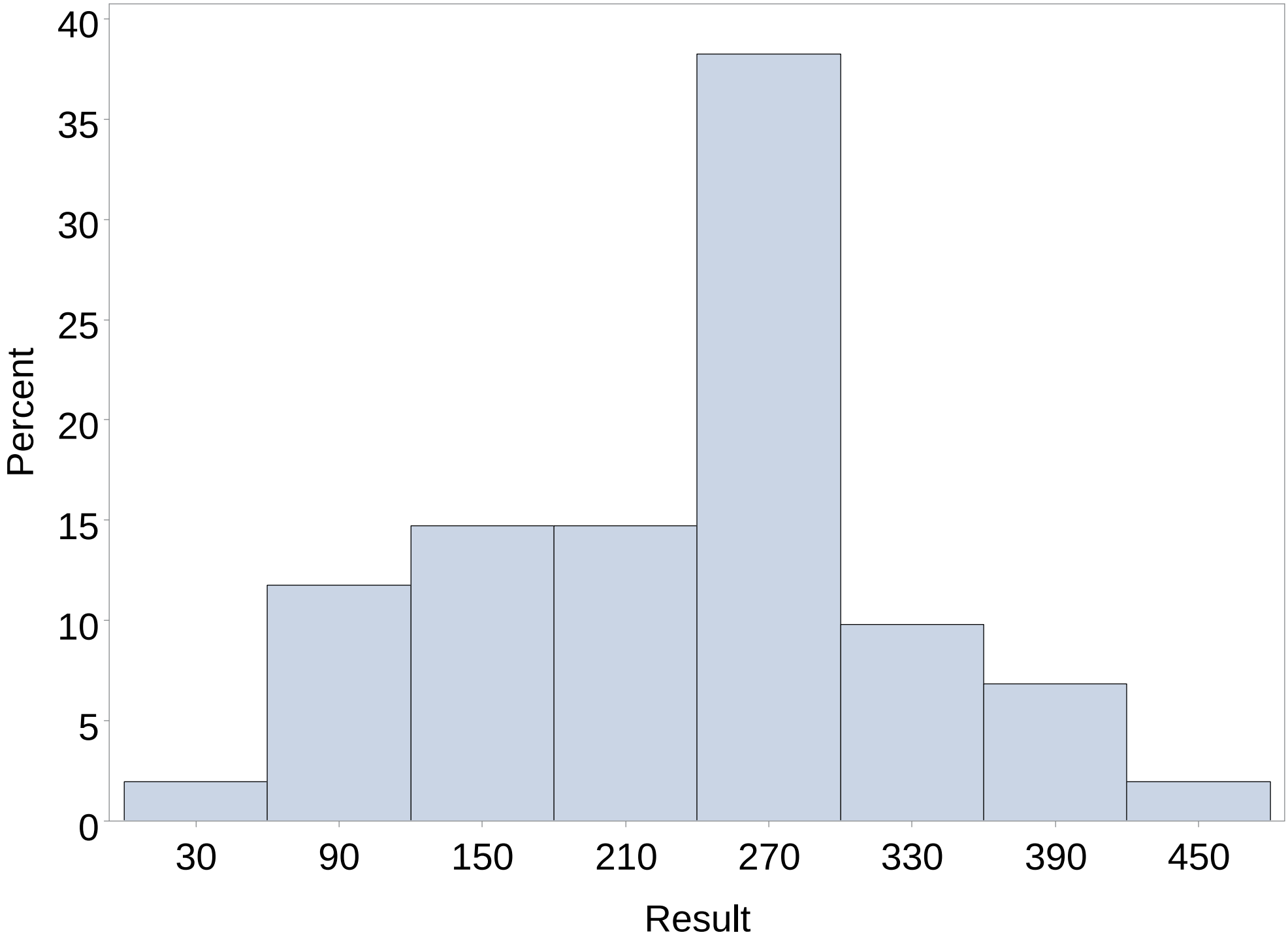
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.44289	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	450.000
99%	435.200
95%	392.500
90%	353.800
75% Q3	292.000
50% Median	256.013
25% Q1	161.000
10%	105.200
5%	85.000
1%	59.400
0% Min	47.840

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
47.84	62168	401.667	62129
59.40	62167	409.400	62137
67.20	62171	411.500	62122
67.70	62169	435.200	62095
79.20	62142	450.000	62106


Parameter=ORP_average STATION=7
Percent
40
35
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=8

Moments			
N	102	**Sum Weights**	102
Mean	238.743135	**Sum Observations**	24351.7998
Std Deviation	91.9492387	**Variance**	8454.66251
Skewness	0.10486628	**Kurtosis**	-0.3236616
Uncorrected SS	6667745.93	**Corrected SS**	853920.913
Coeff Variation	38.5138776	**Std Error Mean**	9.10433128

Basic Statistical Measures			
Location		**Variability**	
Mean	238.7431	**Std Deviation**	91.94924
Median	248.3571	**Variance**	8455
Mode	123.4000	**Range**	410.83333
		Interquartile Range	113.75000

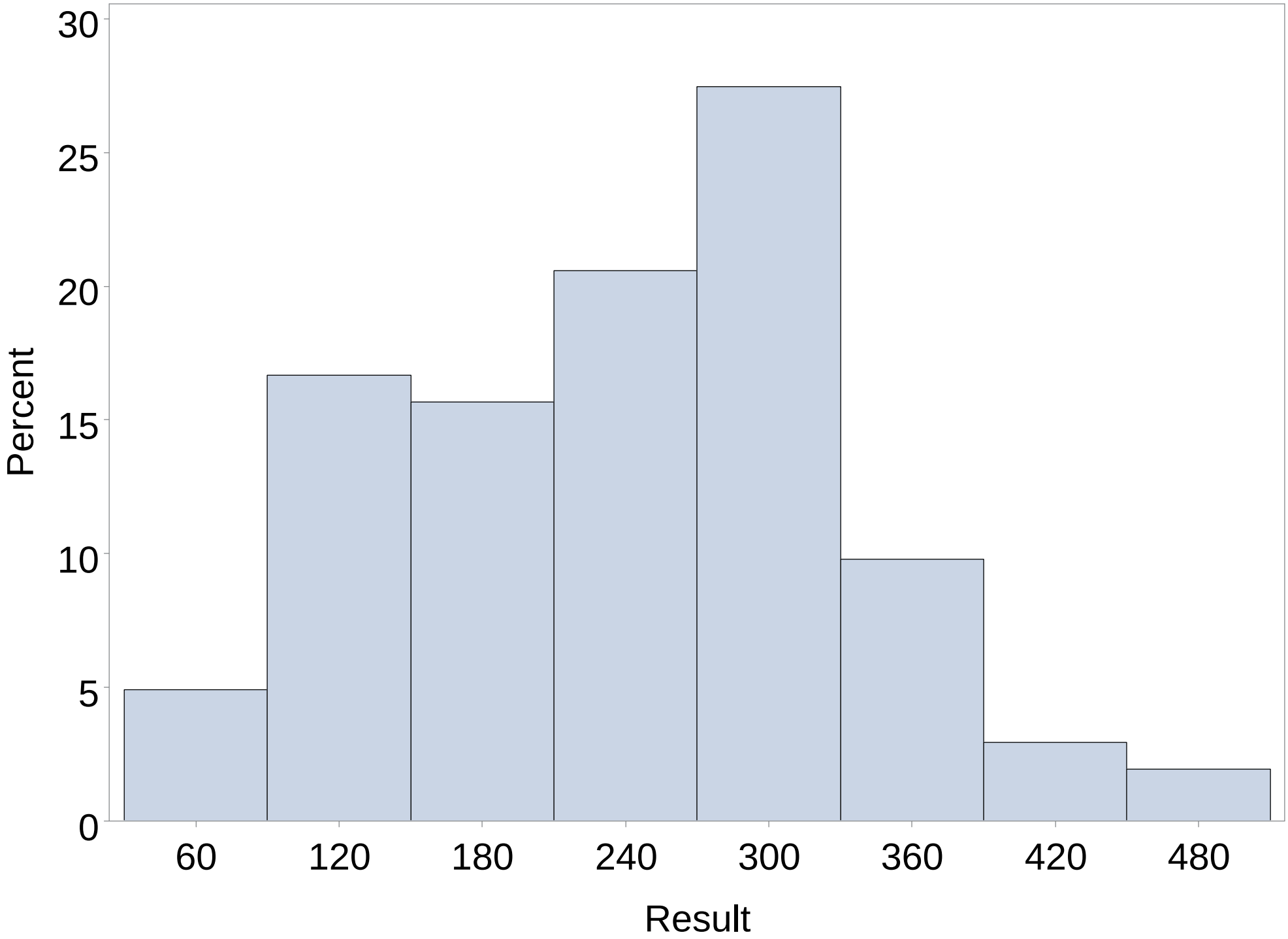
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.22303	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	470.3333
99%	451.2500
95%	387.0000
90%	350.5000
75% Q3	289.7500
50% Median	248.3571
25% Q1	176.0000
10%	115.4000
5%	95.8000
1%	61.2167
0% Min	59.5000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
59.5000	62271	413.500	62202
61.2167	62270	424.750	62208
65.6667	62273	426.167	62197
70.5000	62269	451.250	62239
78.2500	62244	470.333	62231


Parameter=ORP_average STATION=8
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=9

Moments			
N	102	**Sum Weights**	102
Mean	237.400887	**Sum Observations**	24214.8905
Std Deviation	87.0043181	**Variance**	7569.75137
Skewness	0.0423584	**Kurtosis**	-0.1645977
Uncorrected SS	6513181.39	**Corrected SS**	764544.888
Coeff Variation	36.6486912	**Std Error Mean**	8.61471118

Basic Statistical Measures			
Location		**Variability**	
Mean	237.4009	**Std Deviation**	87.00432
Median	251.3750	**Variance**	7570
Mode	125.8571	**Range**	401.10952
		Interquartile Range	117.16000

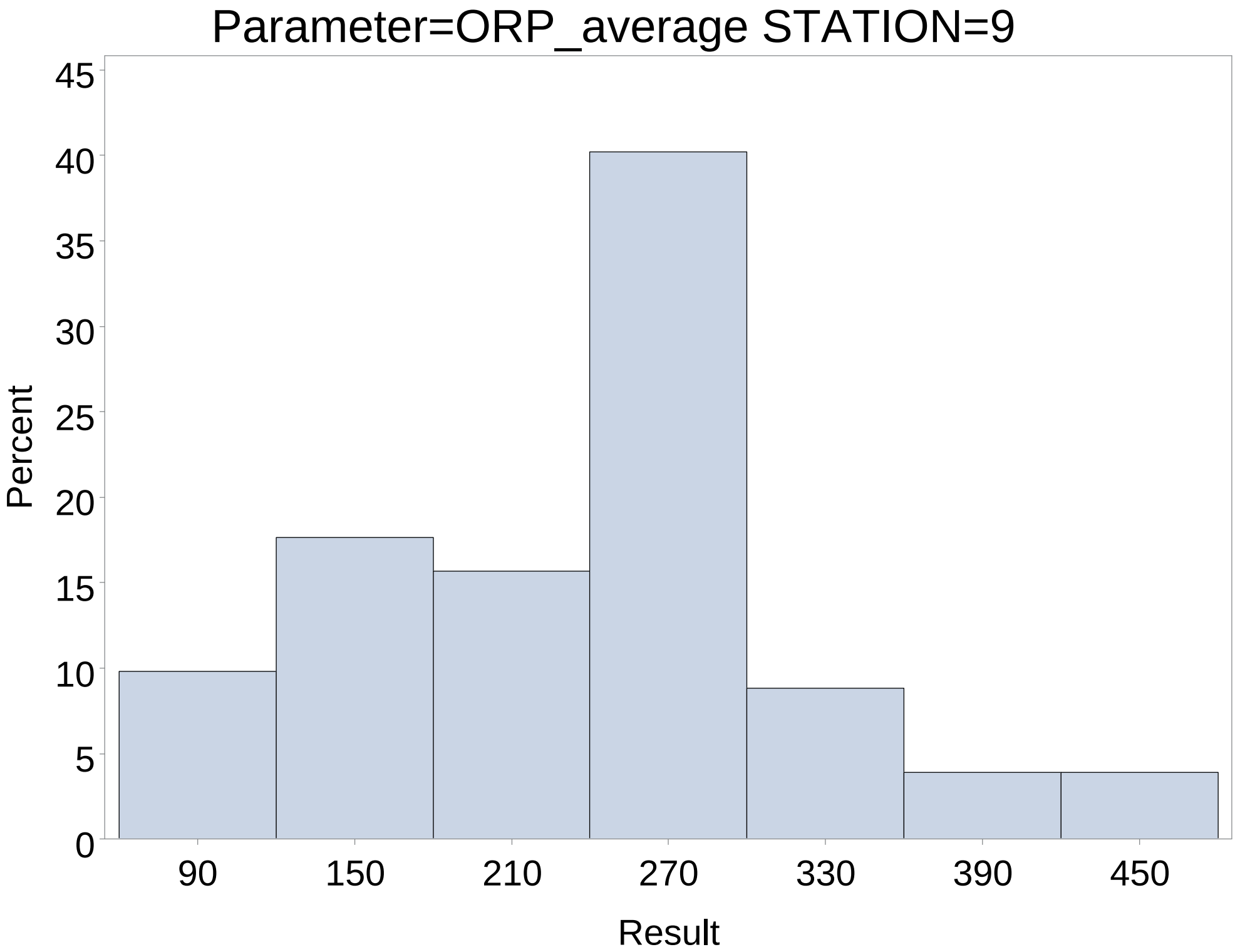
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.55761	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	461.1667
99%	440.0000
95%	374.8000
90%	338.4000
75% Q3	284.0000
50% Median	251.3750
25% Q1	166.8400
10%	125.8571
5%	90.0000
1%	65.4875
0% Min	60.0571

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
60.0571	62372	380.400	62304
65.4875	62371	420.800	62310
77.9429	62373	432.600	62299
81.6000	62346	440.000	62333
84.5714	62375	461.167	62341


Parameter=ORP_average STATION=9
Percent
45
40
35
30
25
20
15
10
5
0
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=10

Moments			
N	104	**Sum Weights**	104
Mean	244.867081	**Sum Observations**	25466.1764
Std Deviation	114.990951	**Variance**	13222.9189
Skewness	-0.093311	**Kurtosis**	-0.6833503
Uncorrected SS	7597788.93	**Corrected SS**	1361960.64
Coeff Variation	46.9605595	**Std Error Mean**	11.2757905

Basic Statistical Measures			
Location		**Variability**	
Mean	244.8671	**Std Deviation**	114.99095
Median	259.0000	**Variance**	13223
Mode	314.0000	**Range**	497.90000
		Interquartile Range	166.20833

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

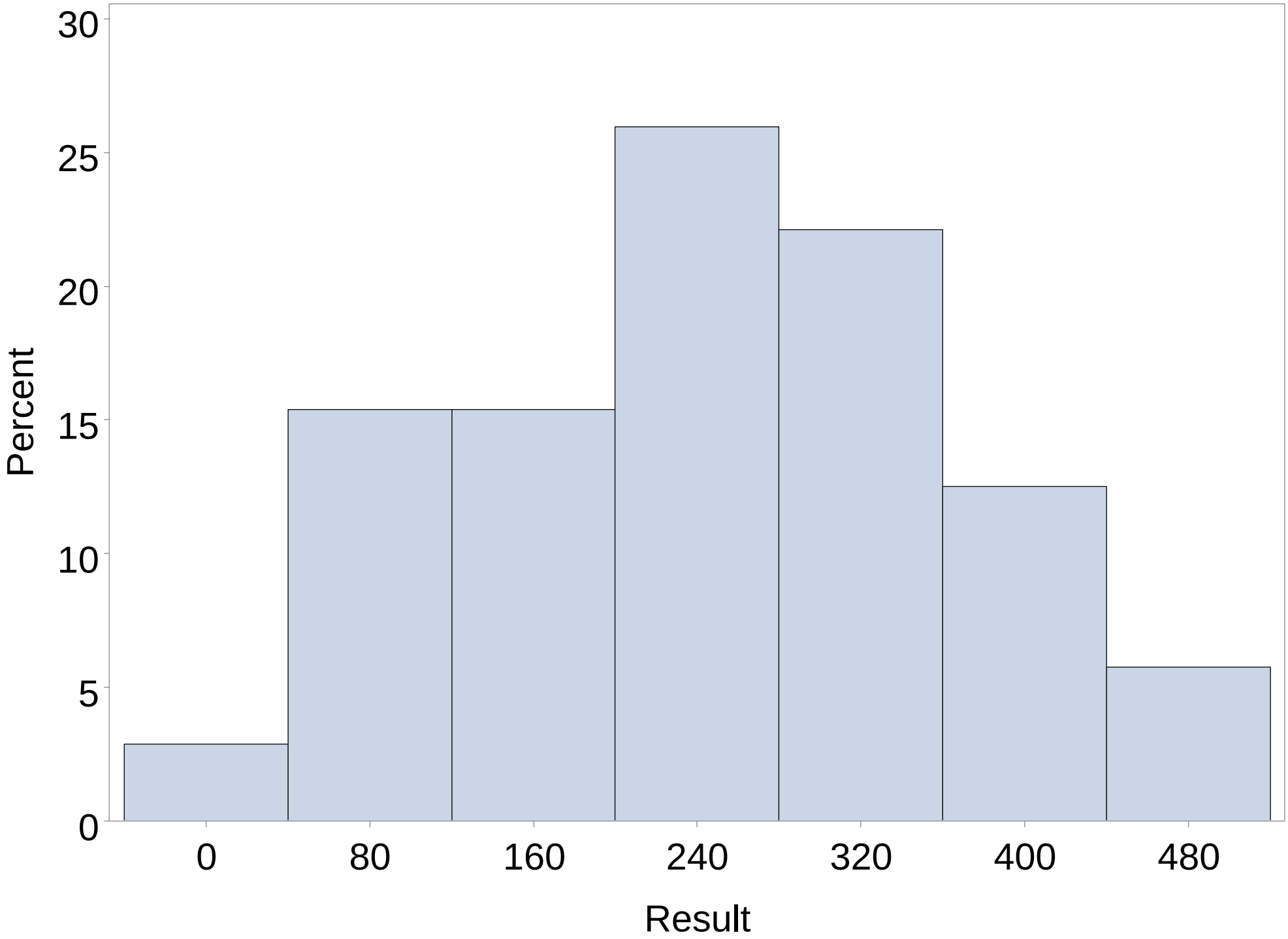
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.71618	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2728	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	470.5000
99%	454.5000
95%	440.0000
90%	399.0000
75% Q3	318.3333
50% Median	259.0000
25% Q1	152.1250
10%	82.0000
5%	74.1667
1%	25.3000
0% Min	-27.4000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-27.4	62418	447.2	62444
25.3	62477	450.0	62439
29.6	62475	454.5	62401
50.4	62472	454.5	62402
54.2	62479	470.5	62413


Parameter=ORP_average STATION=10
Percent
30
25
20
15
10
5
0
0
80
160
240
320
400
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=11

Moments			
N	101	**Sum Weights**	101
Mean	232.928053	**Sum Observations**	23525.7333
Std Deviation	104.932807	**Variance**	11010.894
Skewness	-0.0439765	**Kurtosis**	-0.5463896
Uncorrected SS	6580892.65	**Corrected SS**	1101089.4
Coeff Variation	45.0494501	**Std Error Mean**	10.4412045

Basic Statistical Measures			
Location		**Variability**	
Mean	232.9281	**Std Deviation**	104.93281
Median	246.2667	**Variance**	11011
Mode	160.0000	**Range**	458.06667
		Interquartile Range	153.00000

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

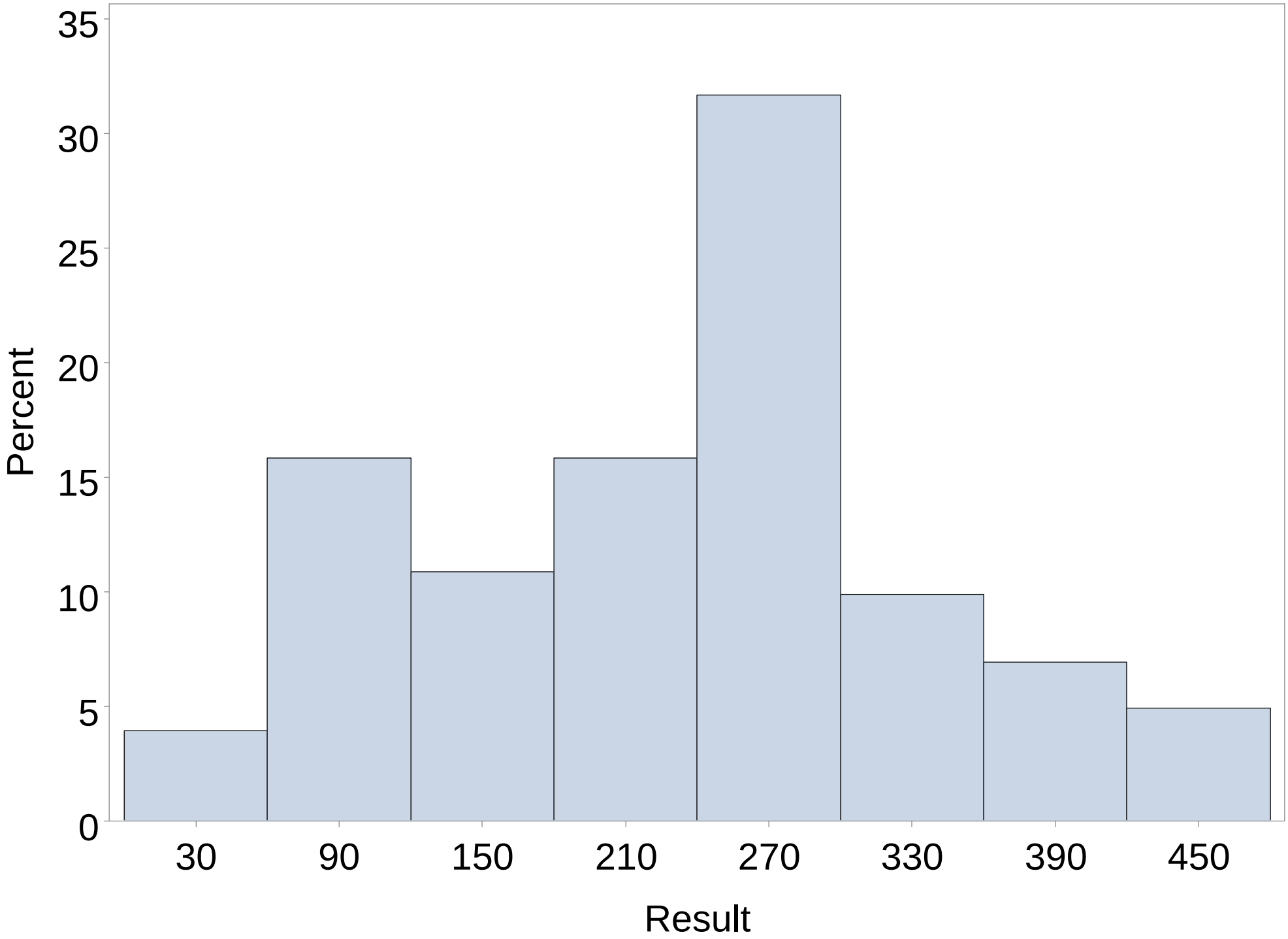
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	22.30854	**Pr > |t|**	<.0001
Sign	**M**	50.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2575.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	462.667
99%	453.333
95%	405.000
90%	363.000
75% Q3	295.000
50% Median	246.267
25% Q1	142.000
10%	87.050
5%	64.500
1%	32.900
0% Min	4.600

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.6000	62521	426.250	62520
32.9000	62579	442.000	62539
36.8667	62577	446.000	62547
53.6667	62574	453.333	62505
61.2500	62581	462.667	62516


Parameter=ORP_average STATION=11
Percent
35
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=12

Moments			
N	102	**Sum Weights**	102
Mean	244.639954	**Sum Observations**	24953.2754
Std Deviation	102.639468	**Variance**	10534.8604
Skewness	-0.1342805	**Kurtosis**	-0.6711407
Uncorrected SS	7168589.05	**Corrected SS**	1064020.9
Coeff Variation	41.9553168	**Std Error Mean**	10.1628217

Basic Statistical Measures			
Location		**Variability**	
Mean	244.6400	**Std Deviation**	102.63947
Median	262.3222	**Variance**	10535
Mode	295.0000	**Range**	439.71250
		Interquartile Range	151.37500

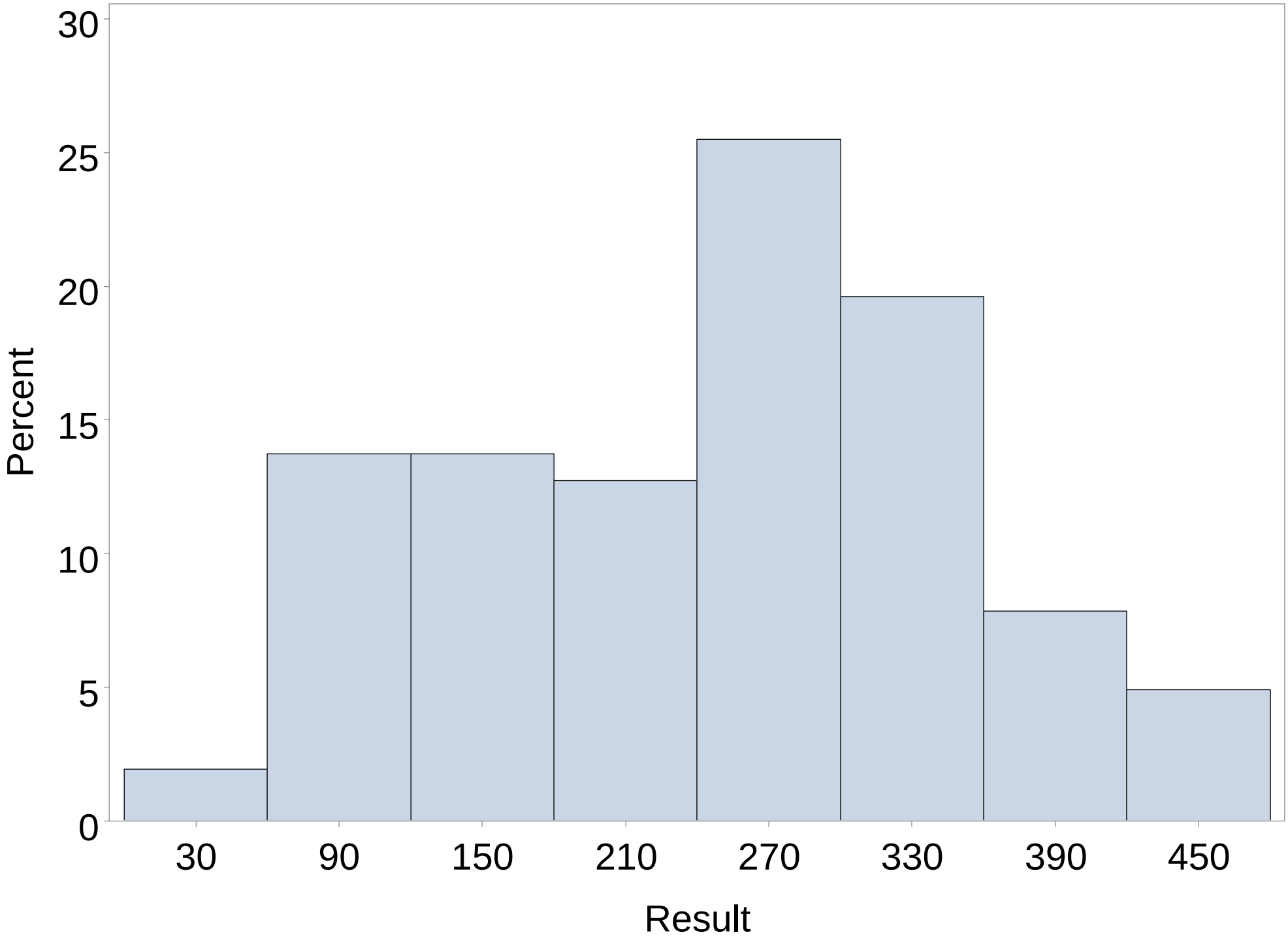
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.07205	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	472.0000
99%	451.3333
95%	402.2500
90%	374.0000
75% Q3	310.6250
50% Median	262.3222
25% Q1	159.2500
10%	90.8333
5%	76.6250
1%	40.6429
0% Min	32.2875

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
32.2875	62679	420.875	62643
40.6429	62678	433.250	62606
66.0714	62680	439.000	62640
67.0000	62675	451.333	62648
73.0000	62682	472.000	62617


Parameter=ORP_average STATION=12
Percent
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=13

Moments			
N	102	**Sum Weights**	102
Mean	243.651207	**Sum Observations**	24852.4231
Std Deviation	100.50201	**Variance**	10100.6539
Skewness	-0.1199445	**Kurtosis**	-0.6799157
Uncorrected SS	7075488.93	**Corrected SS**	1020166.05
Coeff Variation	41.2483118	**Std Error Mean**	9.95118178

Basic Statistical Measures			
Location		**Variability**	
Mean	243.6512	**Std Deviation**	100.50201
Median	268.1500	**Variance**	10101
Mode	307.5000	**Range**	432.08000
		Interquartile Range	153.50000

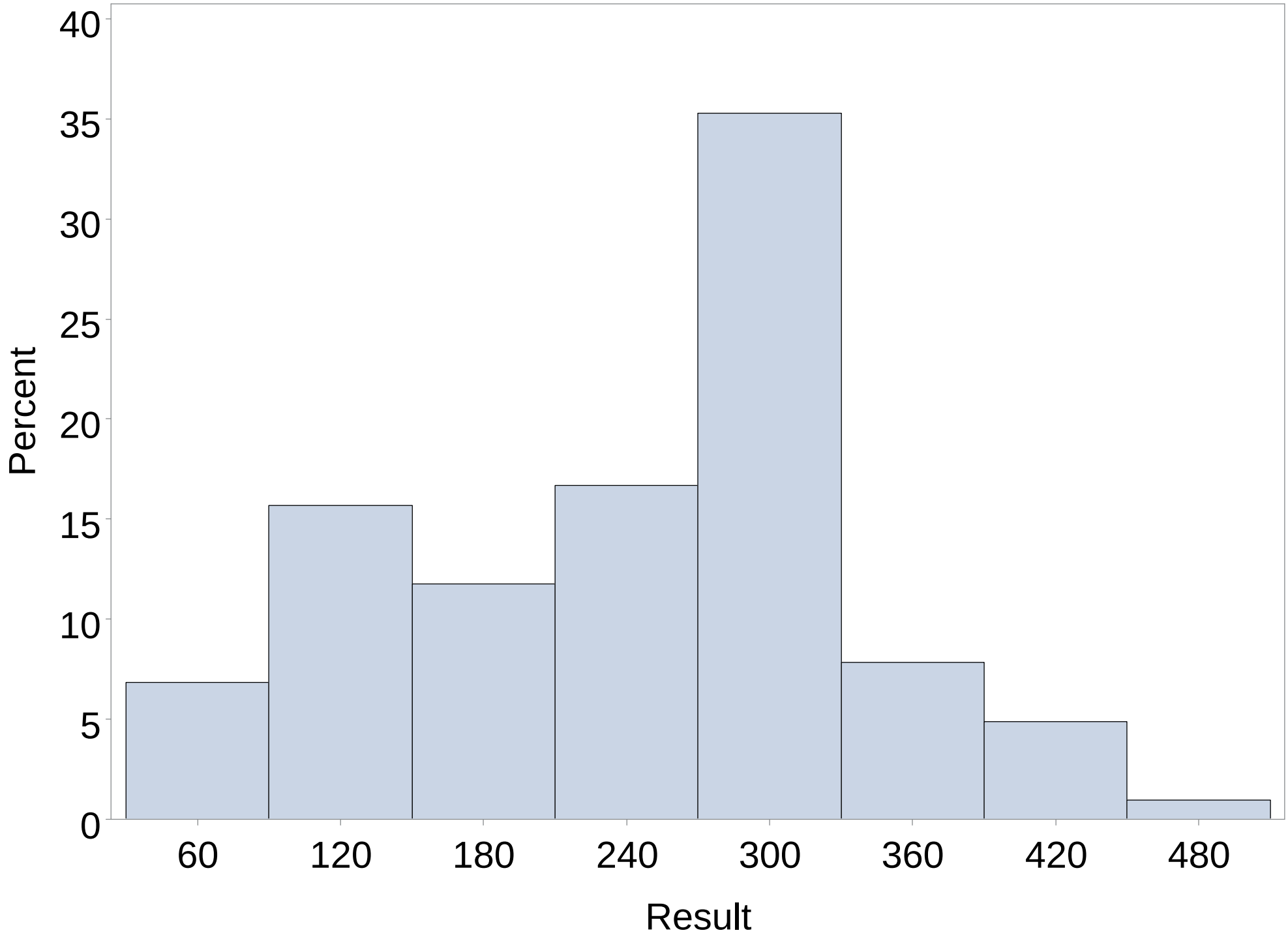
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.48465	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	472.600
99%	448.000
95%	397.667
90%	361.500
75% Q3	307.500
50% Median	268.150
25% Q1	154.000
10%	98.125
5%	84.600
1%	49.325
0% Min	40.520

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
40.5200	62781	427.000	62742
49.3250	62780	430.143	62735
68.2000	62777	433.833	62708
72.0000	62784	448.000	62750
72.8571	62755	472.600	62719


Parameter=ORP_average STATION=13
Percent
0
5
10
15
20
25
30
35
40
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=14

Moments			
N	101	**Sum Weights**	101
Mean	242.501403	**Sum Observations**	24492.6417
Std Deviation	99.7386969	**Variance**	9947.80766
Skewness	-0.0406471	**Kurtosis**	-0.5891613
Uncorrected SS	6934280.74	**Corrected SS**	994780.766
Coeff Variation	41.1291216	**Std Error Mean**	9.92437127

Basic Statistical Measures			
Location		**Variability**	
Mean	242.5014	**Std Deviation**	99.73870
Median	248.5000	**Variance**	9948
Mode	.	**Range**	413.36000
		Interquartile Range	149.00000

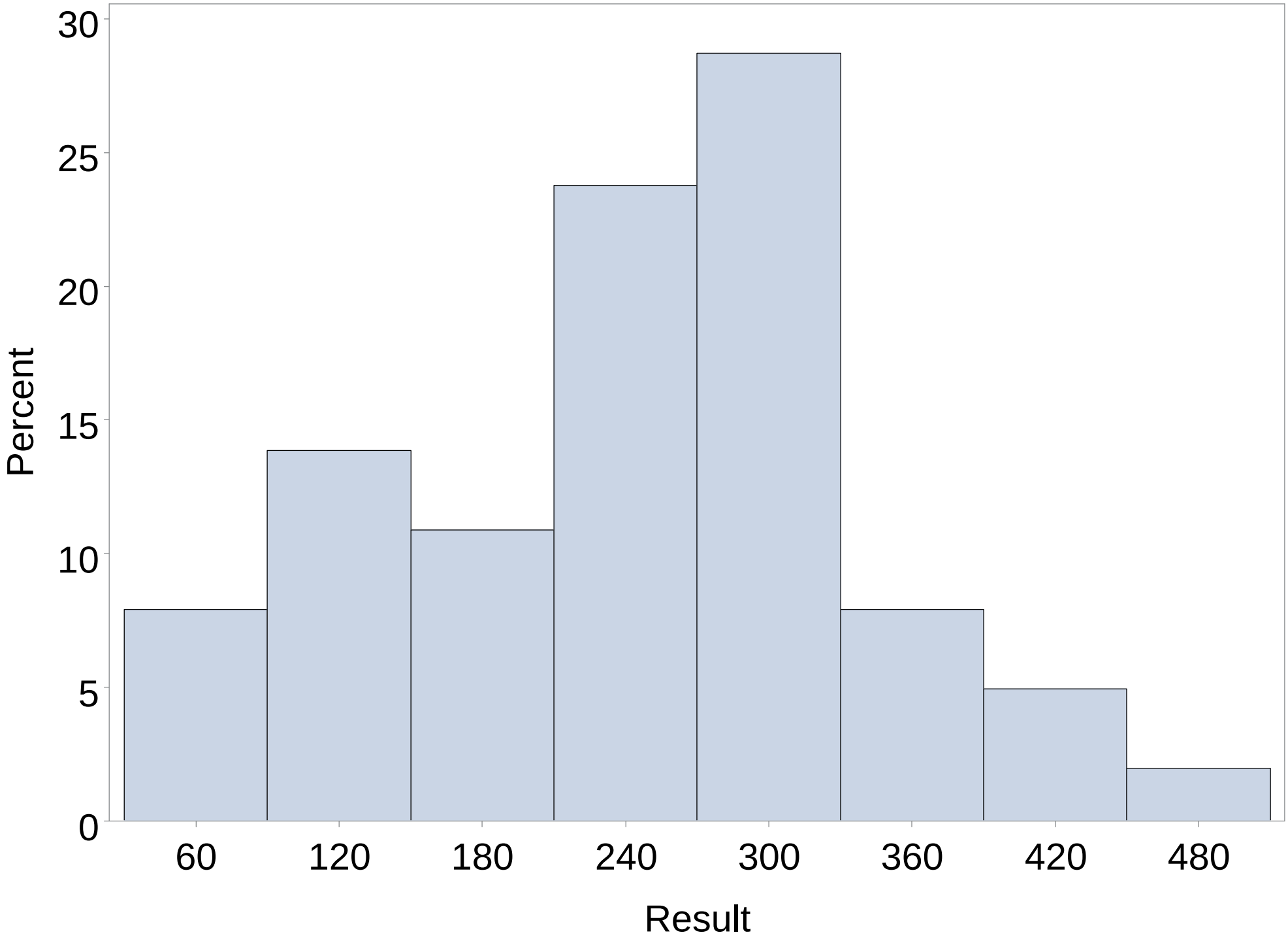
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.43494	**Pr > |t|**	<.0001
Sign	**M**	50.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	2575.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	461.800
99%	458.333
95%	393.833
90%	376.750
75% Q3	307.500
50% Median	248.500
25% Q1	158.500
10%	95.500
5%	77.250
1%	52.900
0% Min	48.440

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
48.4400	62882	413.750	62836
52.9000	62881	429.750	62810
61.6667	62885	447.250	62843
72.0000	62856	458.333	62821
72.4200	62883	461.800	62851


Parameter=ORP_average STATION=14
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=15

Moments			
N	102	**Sum Weights**	102
Mean	242.77987	**Sum Observations**	24763.5467
Std Deviation	97.8591722	**Variance**	9576.41758
Skewness	-0.0184375	**Kurtosis**	-0.4164363
Uncorrected SS	6979308.82	**Corrected SS**	967218.176
Coeff Variation	40.3077785	**Std Error Mean**	9.68950189

Basic Statistical Measures			
Location		**Variability**	
Mean	242.7799	**Std Deviation**	97.85917
Median	260.9800	**Variance**	9576
Mode	265.0000	**Range**	423.90000
		Interquartile Range	134.83333

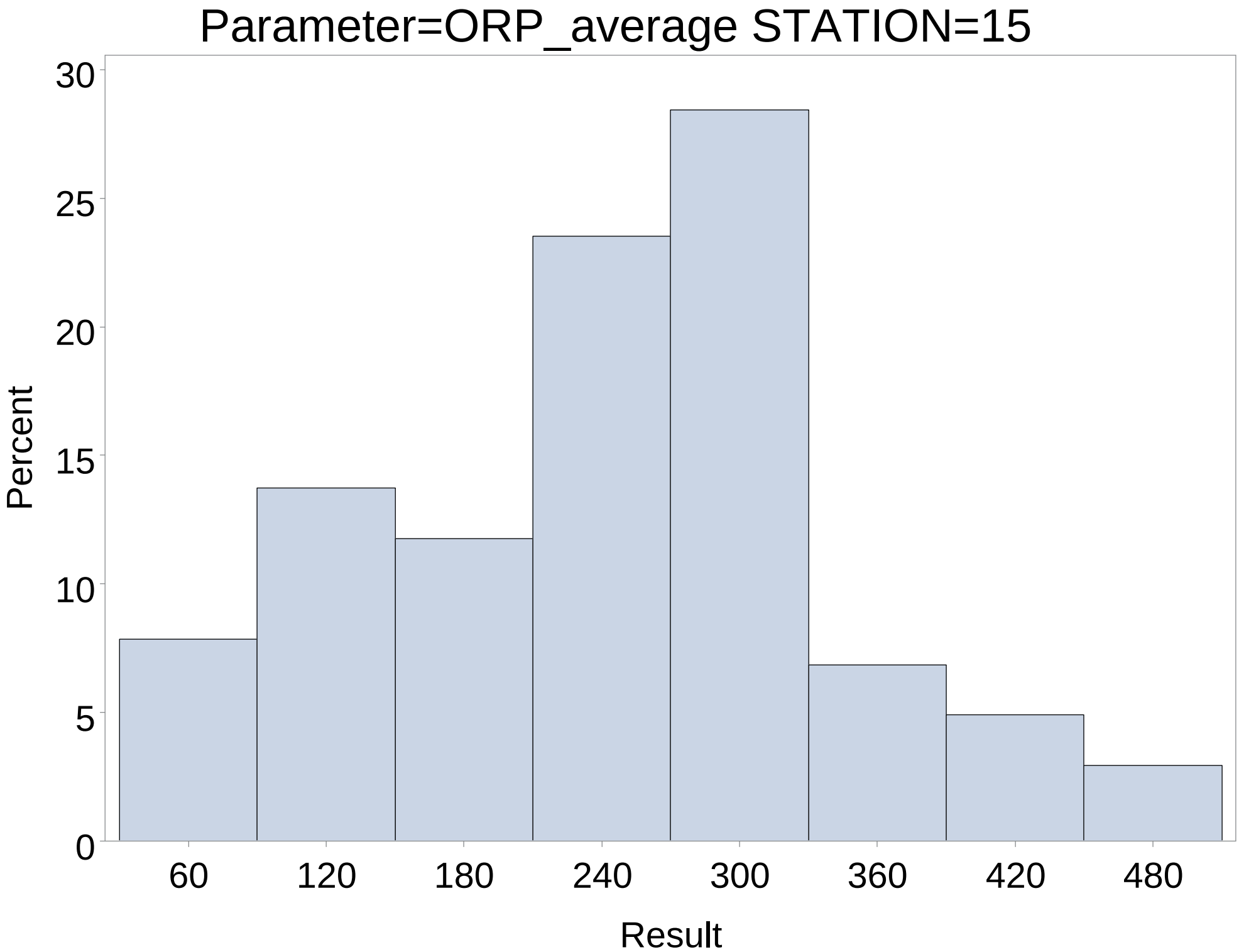
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.05597	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	470.6667
99%	459.5000
95%	404.6667
90%	368.0000
75% Q3	296.5000
50% Median	260.9800
25% Q1	161.6667
10%	106.0000
5%	78.0000
1%	59.4500
0% Min	46.7667

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
46.7667	62984	405.000	62926
59.4500	62983	426.250	62911
60.1000	62985	452.750	62922
65.7500	62987	459.500	62945
74.0000	62980	470.667	62953


Parameter=ORP_average STATION=15
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=16

Moments			
N	102	**Sum Weights**	102
Mean	239.897067	**Sum Observations**	24469.5008
Std Deviation	89.9770998	**Variance**	8095.87848
Skewness	-0.0610787	**Kurtosis**	-0.3379392
Uncorrected SS	6687845.19	**Corrected SS**	817683.727
Coeff Variation	37.5065444	**Std Error Mean**	8.90906043

Basic Statistical Measures			
Location		**Variability**	
Mean	239.8971	**Std Deviation**	89.97710
Median	252.2232	**Variance**	8096
Mode	144.0000	**Range**	395.88000
		Interquartile Range	120.95000

Note: The mode displayed is the smallest of 4 modes with a count of 2.

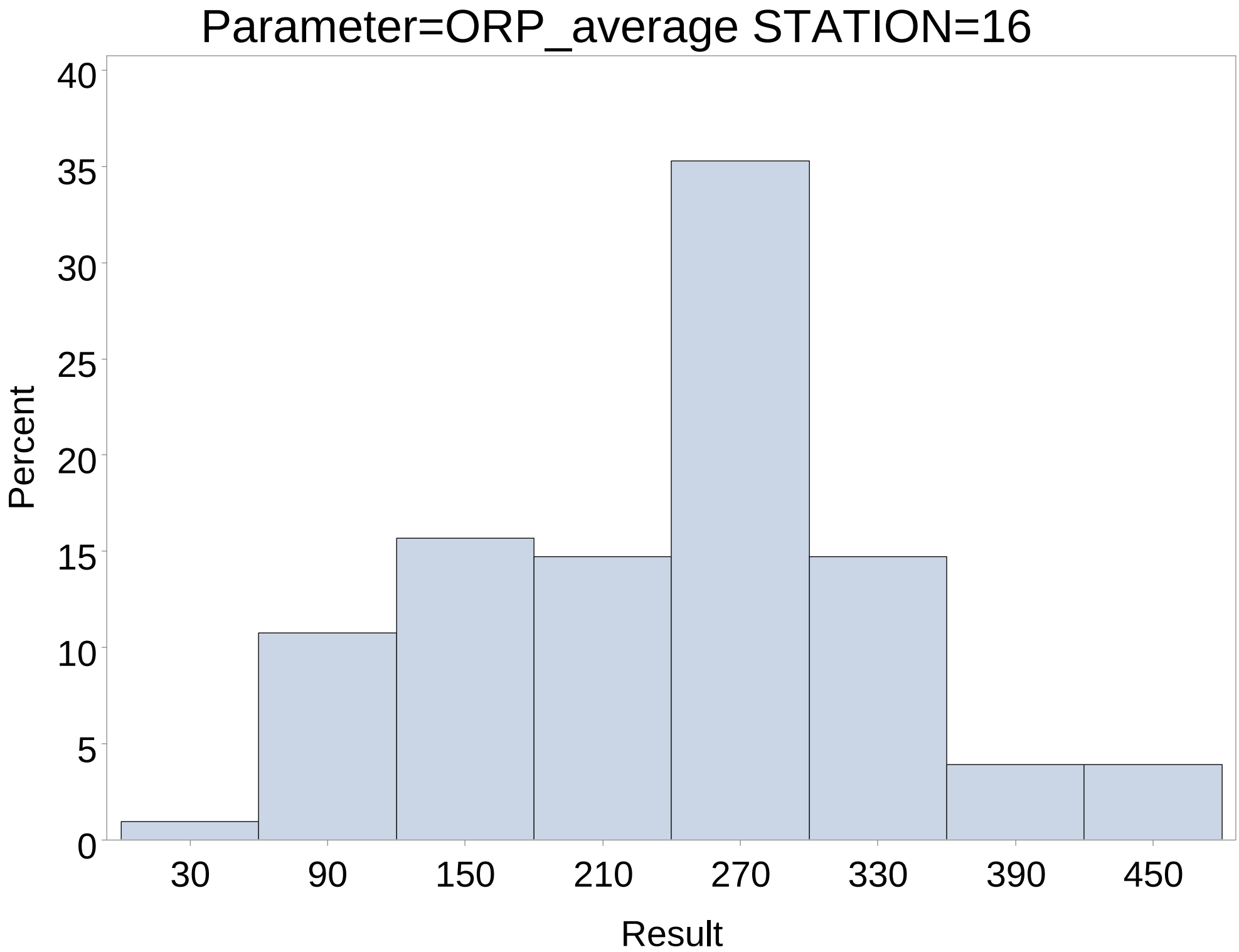
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.92731	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	452.000
99%	450.500
95%	379.500
90%	343.429
75% Q3	295.200
50% Median	252.223
25% Q1	174.250
10%	117.400
5%	85.500
1%	61.075
0% Min	56.120

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
56.120	63086	383.667	63040
61.075	63085	421.833	63024
75.000	63089	436.667	63013
75.800	63087	450.500	63047
83.625	63053	452.000	63055


Parameter=ORP_average STATION=16
Percent
40
35
30
25
20
15
10
5
0
30
90
150
210
270
330
390
450
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=17

Moments			
N	102	**Sum Weights**	102
Mean	238.231958	**Sum Observations**	24299.6598
Std Deviation	88.8030347	**Variance**	7885.97897
Skewness	0.05386275	**Kurtosis**	-0.2206106
Uncorrected SS	6585439.41	**Corrected SS**	796483.876
Coeff Variation	37.2758698	**Std Error Mean**	8.79281066

Basic Statistical Measures			
Location		**Variability**	
Mean	238.2320	**Std Deviation**	88.80303
Median	249.6250	**Variance**	7886
Mode	245.6000	**Range**	396.58333
		Interquartile Range	127.40000

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

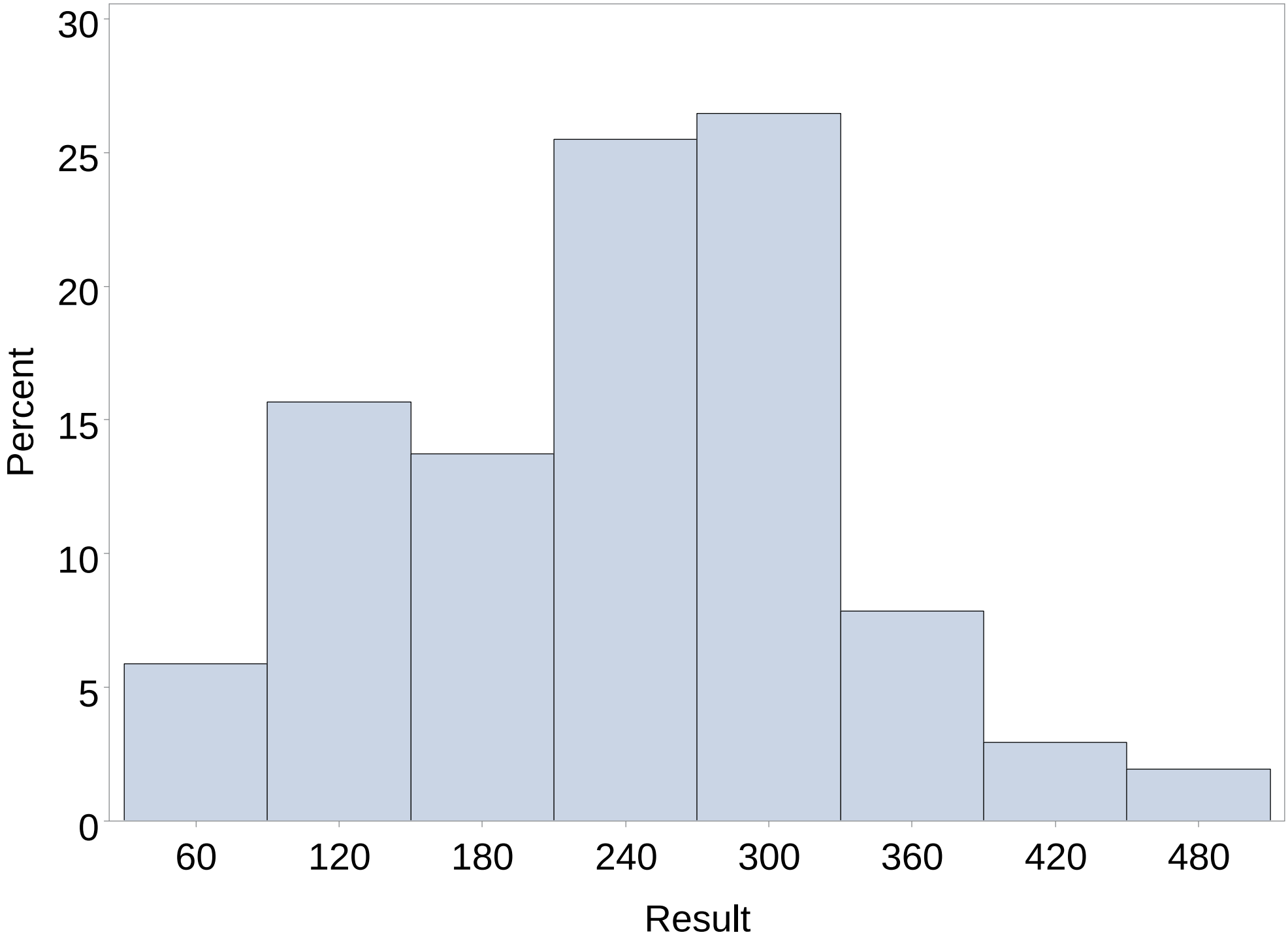
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.09395	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	456.2500
99%	451.6667
95%	383.4000
90%	336.2000
75% Q3	291.0000
50% Median	249.6250
25% Q1	163.6000
10%	123.4000
5%	89.0000
1%	65.1000
0% Min	59.6667

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
59.6667	63188	403.000	63142
65.1000	63187	425.500	63126
76.9400	63189	430.500	63115
83.2000	63191	451.667	63157
83.4000	63162	456.250	63149


Parameter=ORP_average STATION=17
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=18

Moments			
N	100	**Sum Weights**	100
Mean	237.115702	**Sum Observations**	23711.5702
Std Deviation	90.6121456	**Variance**	8210.56093
Skewness	0.07133613	**Kurtosis**	-0.2490181
Uncorrected SS	6435231.16	**Corrected SS**	812845.532
Coeff Variation	38.2143168	**Std Error Mean**	9.06121456

Basic Statistical Measures			
Location		**Variability**	
Mean	237.1157	**Std Deviation**	90.61215
Median	242.8750	**Variance**	8211
Mode	229.3333	**Range**	424.33333
		Interquartile Range	128.24286

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

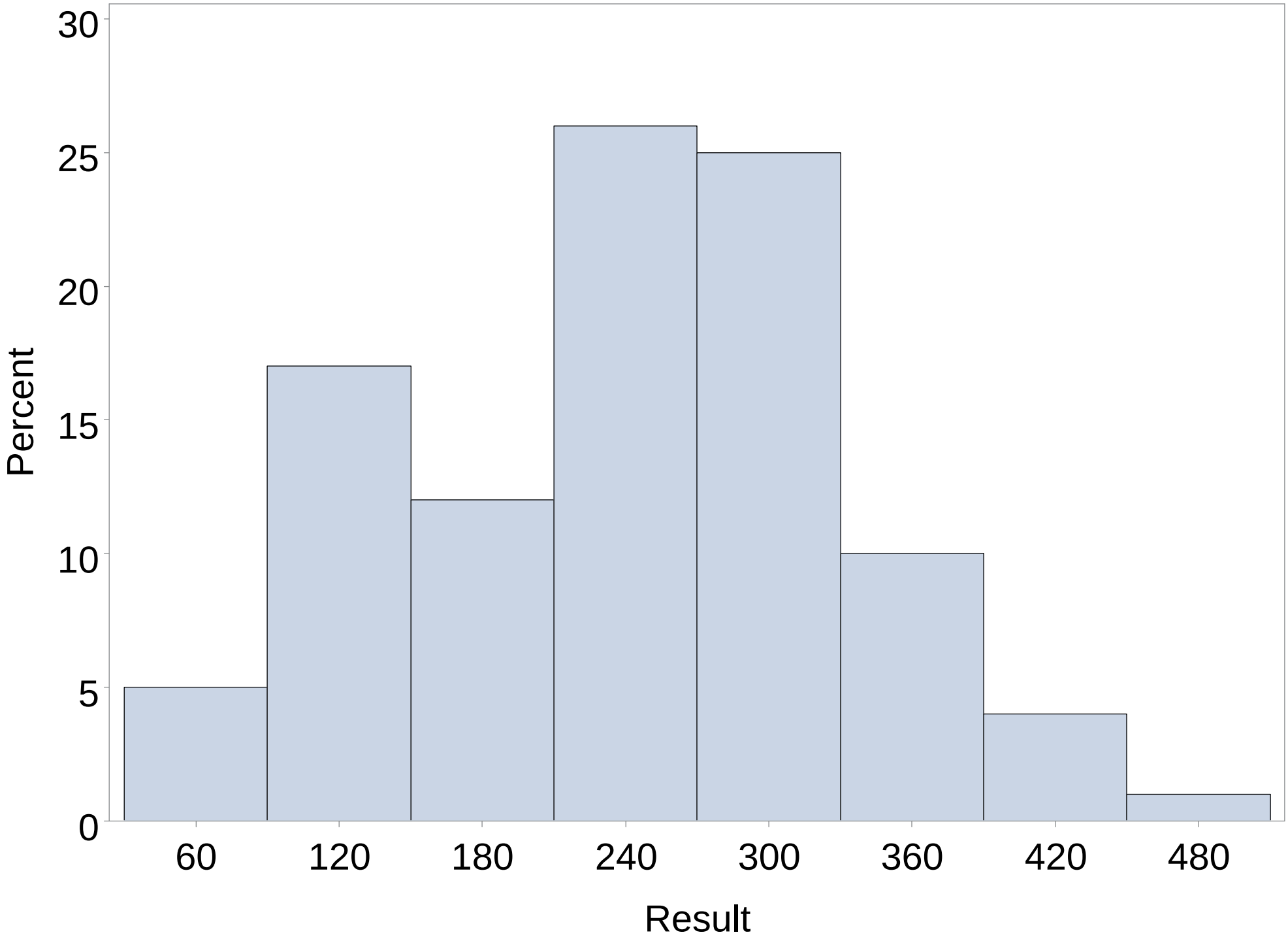
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.1682	**Pr > |t|**	<.0001
Sign	**M**	50	**Pr >= |M|**	<.0001
Signed Rank	**S**	2525	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	480.6667
99%	455.7083
95%	396.0417
90%	341.8333
75% Q3	291.3095
50% Median	242.8750
25% Q1	163.0667
10%	111.6429
5%	86.5226
1%	57.9067
0% Min	56.3333

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
56.3333	63292	406.333	63258
59.4800	63290	426.667	63228
65.1800	63289	430.000	63222
71.3333	63263	430.750	63217
73.6167	63288	480.667	63250


Parameter=ORP_average STATION=18
Percent
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=19

Moments			
N	102	**Sum Weights**	102
Mean	235.990214	**Sum Observations**	24071.0018
Std Deviation	88.8827444	**Variance**	7900.14226
Skewness	0.14926105	**Kurtosis**	-0.1964766
Uncorrected SS	6478435.23	**Corrected SS**	797914.368
Coeff Variation	37.6637416	**Std Error Mean**	8.8007031

Basic Statistical Measures			
Location		**Variability**	
Mean	235.9902	**Std Deviation**	88.88274
Median	246.8054	**Variance**	7900
Mode	268.5000	**Range**	394.06667
		Interquartile Range	117.52500

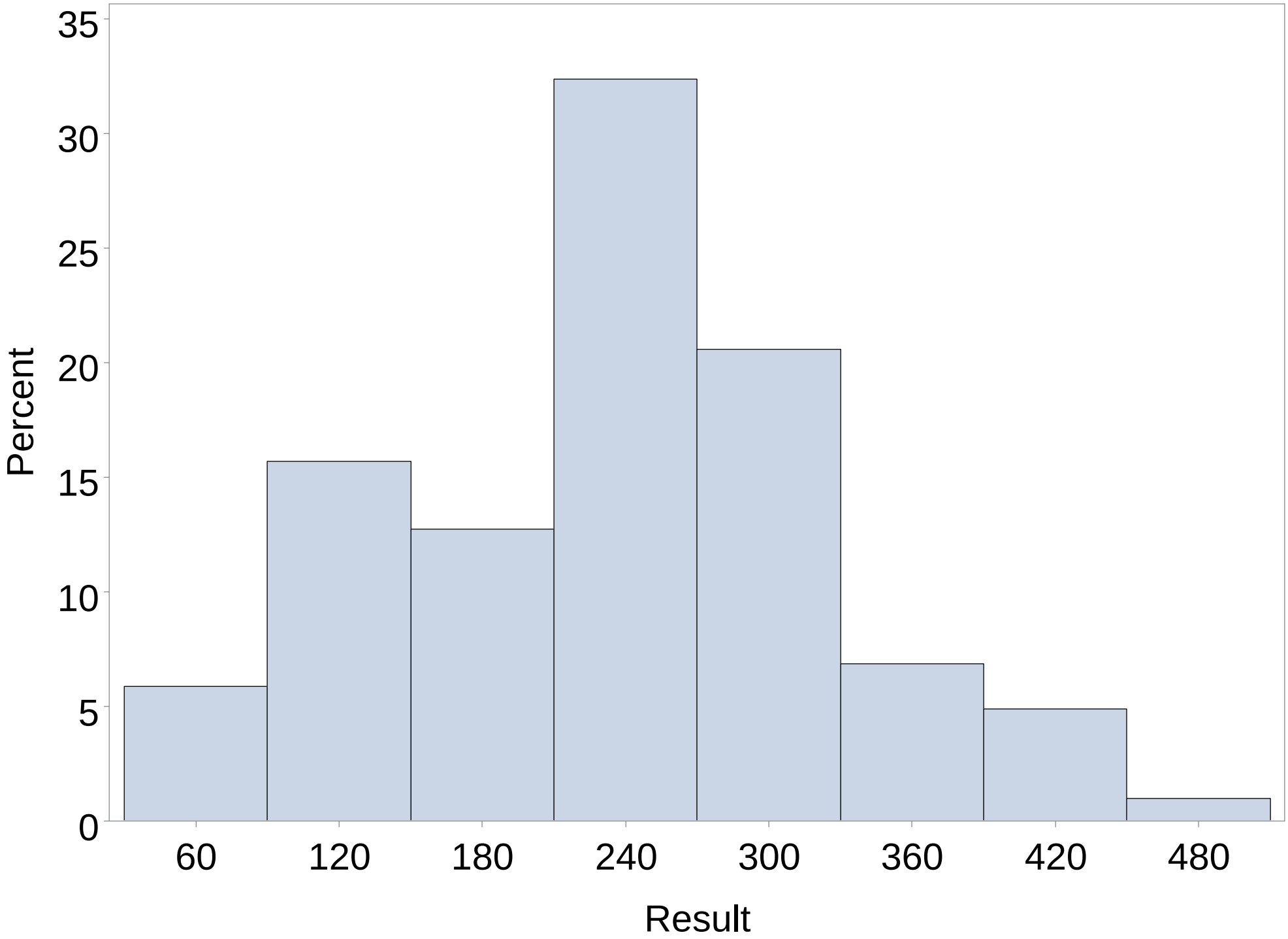
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.81493	**Pr > |t|**	<.0001
Sign	**M**	51	**Pr >= |M|**	<.0001
Signed Rank	**S**	2626.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	452.4000
99%	449.6667
95%	394.0000
90%	353.0000
75% Q3	282.0000
50% Median	246.8054
25% Q1	164.4750
10%	123.6000
5%	89.2000
1%	68.1667
0% Min	58.3333

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
58.3333	63390	396.000	63346
68.1667	63389	416.000	63328
71.2000	63357	429.000	63317
79.3333	63364	449.667	63351
79.5000	63391	452.400	63359


Parameter=ORP_average STATION=19
Percent
35
30
25
20
15
10
5
0
60
120
180
240
300
360
420
480
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	257.111111	**Sum Observations**	257.111111
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	66106.1235	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	257.1111	**Std Deviation**	.
Median	257.1111	**Variance**	.
Mode	257.1111	**Range**	0
		Interquartile Range	0

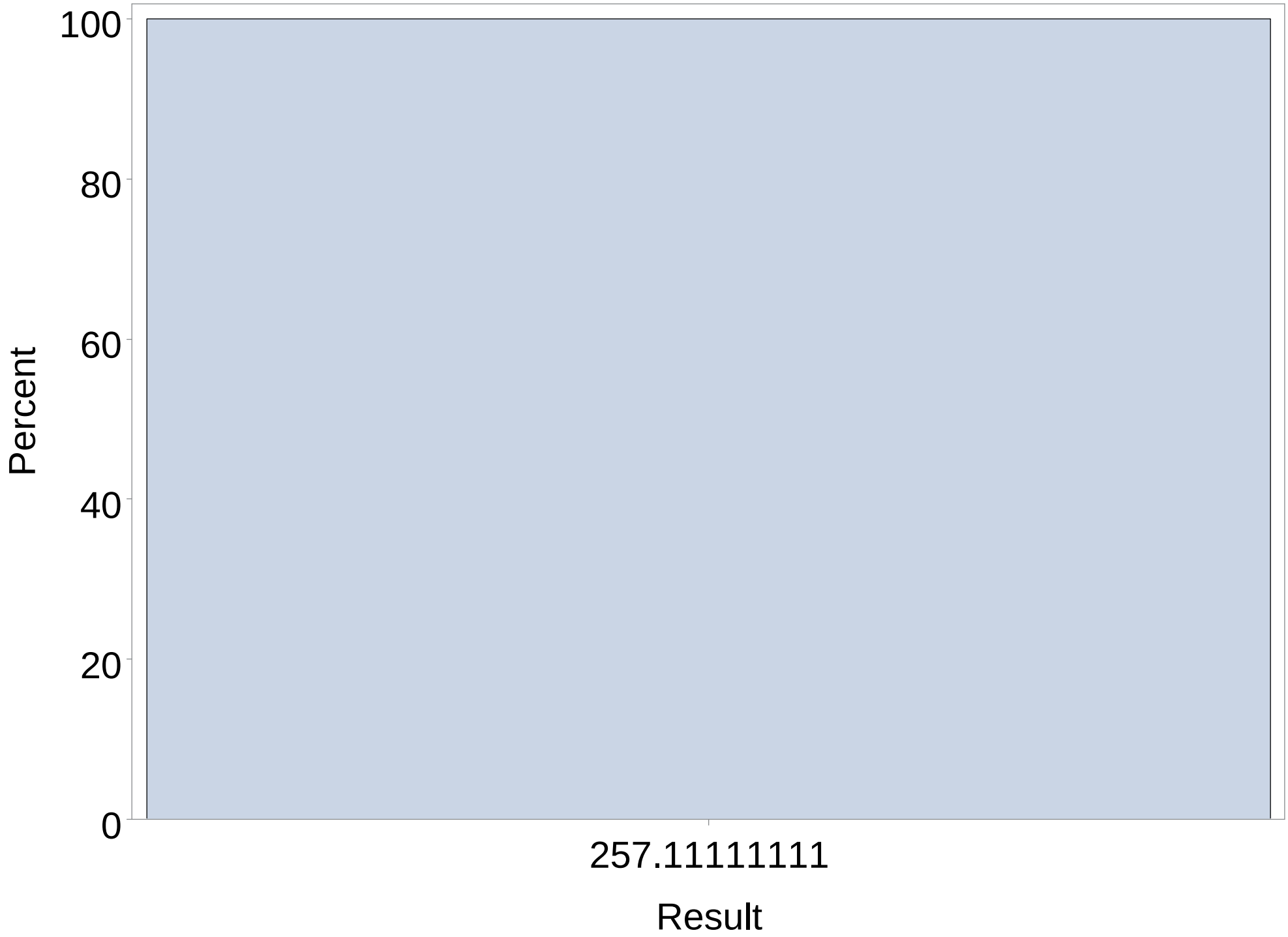
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	257.111
99%	257.111
95%	257.111
90%	257.111
75% Q3	257.111
50% Median	257.111
25% Q1	257.111
10%	257.111
5%	257.111
1%	257.111
0% Min	257.111

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=ORP_average STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
257.111	63418	257.111	63418


Parameter=ORP_average STATION=22
100
80
60
40
20
0
Percent
257.11111111
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=1

Moments			
N	325	**Sum Weights**	325
Mean	1.57376923	**Sum Observations**	511.475
Std Deviation	2.35896674	**Variance**	5.5647241
Skewness	4.48912822	**Kurtosis**	30.9893685
Uncorrected SS	2607.91423	**Corrected SS**	1802.97061
Coeff Variation	149.892799	**Std Error Mean**	0.13085193

Basic Statistical Measures			
Location		**Variability**	
Mean	1.573769	**Std Deviation**	2.35897
Median	0.800000	**Variance**	5.56472
Mode	0.500000	**Range**	25.00000
		Interquartile Range	1.30000

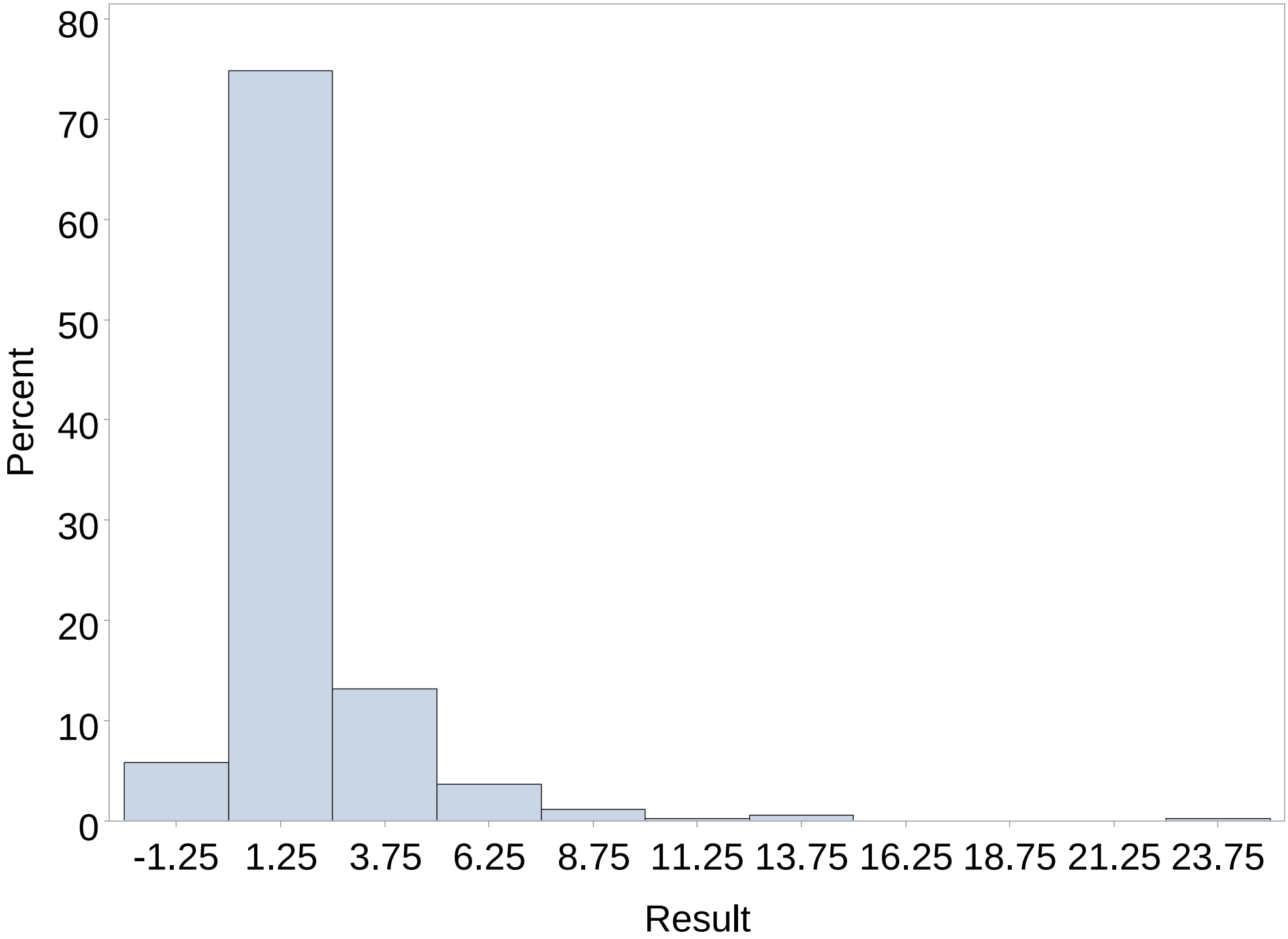
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.0271	**Pr > |t|**	<.0001
Sign	**M**	142.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24698	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.0
99%	12.0
95%	5.2
90%	3.9
75% Q3	1.8
50% Median	0.8
25% Q1	0.5
10%	0.2
5%	-0.3
1%	-1.0
0% Min	-1.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1	63493	9.2	63504
-1	63492	12.0	63724
-1	63491	13.9	63582
-1	63490	14.9	63637
-1	63489	24.0	63616


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=1
Percent
80
70
60
50
40
30
20
10
0
-1.25
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=2

Moments			
N	325	**Sum Weights**	325
Mean	2.08831077	**Sum Observations**	678.701
Std Deviation	3.37736312	**Variance**	11.4065816
Skewness	4.32897688	**Kurtosis**	23.9015468
Uncorrected SS	5113.07106	**Corrected SS**	3695.73245
Coeff Variation	161.727037	**Std Error Mean**	0.1873424

Basic Statistical Measures			
Location		**Variability**	
Mean	2.088311	**Std Deviation**	3.37736
Median	1.040000	**Variance**	11.40658
Mode	0.500000	**Range**	28.60000
		Interquartile Range	1.70000

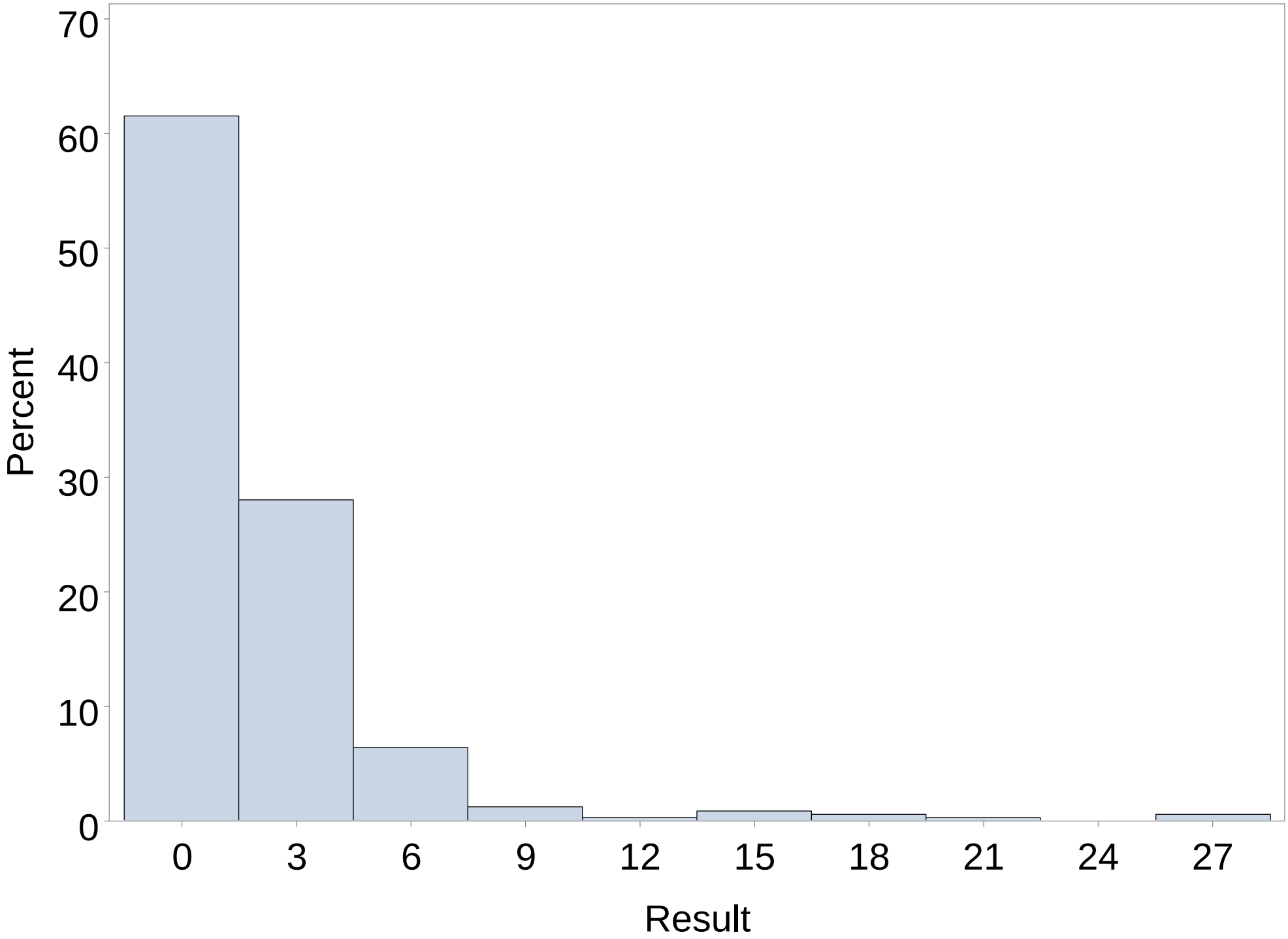
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.14703	**Pr > |t|**	<.0001
Sign	**M**	145	**Pr >= |M|**	<.0001
Signed Rank	**S**	25129.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	27.60
99%	18.90
95%	6.80
90%	4.60
75% Q3	2.20
50% Median	1.04
25% Q1	0.50
10%	0.30
5%	0.00
1%	-1.00
0% Min	-1.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1.0	63818	18.7	63876
-1.0	63817	18.9	63829
-1.0	63814	20.0	63952
-1.0	63813	26.3	63765
-0.3	63862	27.6	63753


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=2
70
60
50
40
30
20
10
0
Percent
0
3
6
9
12
15
18
21
24
27
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=3

Moments			
N	327	**Sum Weights**	327
Mean	3.65149847	**Sum Observations**	1194.04
Std Deviation	4.78668141	**Variance**	22.9123189
Skewness	3.78872034	**Kurtosis**	21.5955468
Uncorrected SS	11829.4512	**Corrected SS**	7469.41597
Coeff Variation	131.088139	**Std Error Mean**	0.26470409

Basic Statistical Measures			
Location		**Variability**	
Mean	3.651498	**Std Deviation**	4.78668
Median	2.200000	**Variance**	22.91232
Mode	0.500000	**Range**	44.80000
		Interquartile Range	3.40000

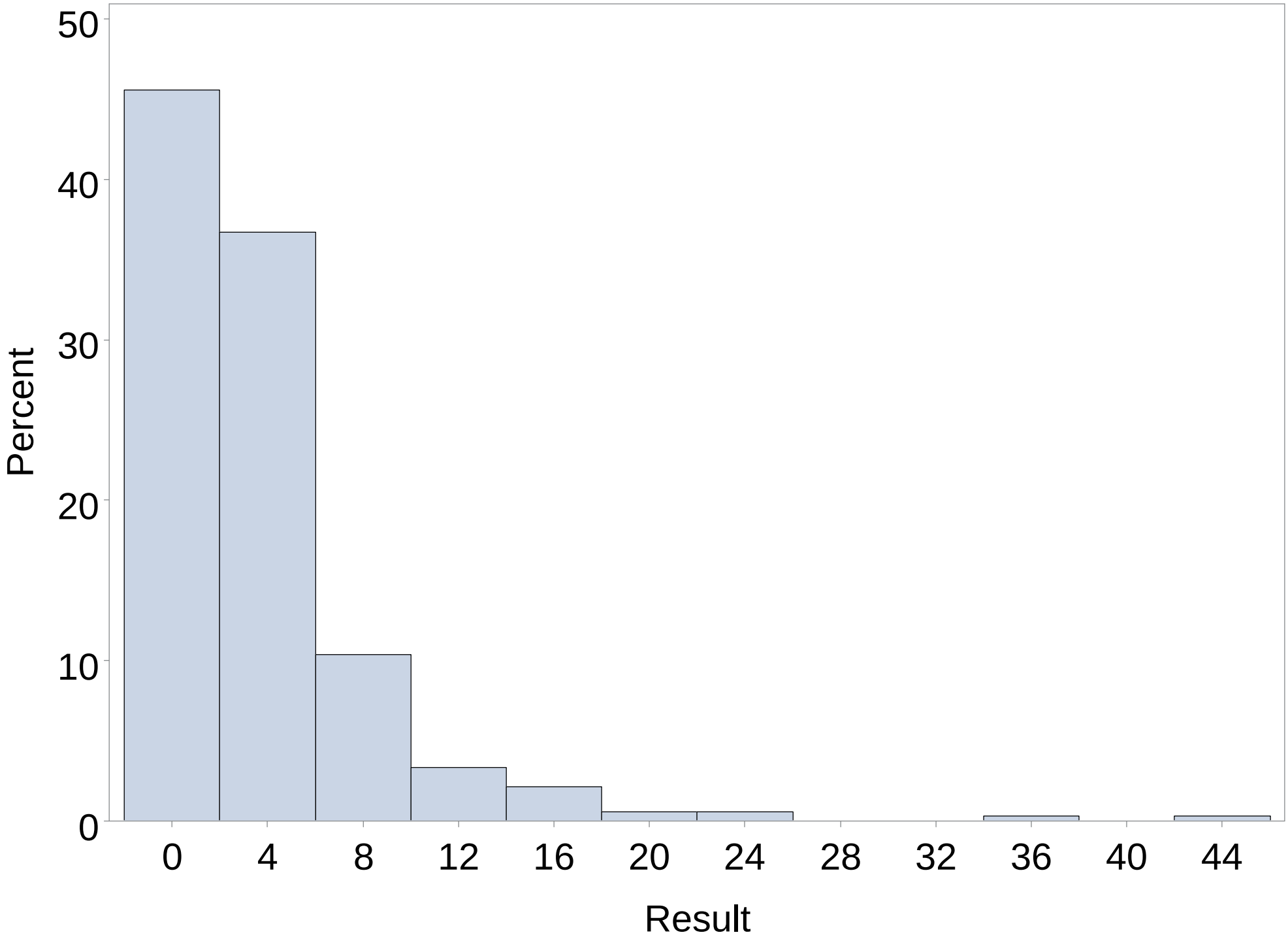
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.79464	**Pr > |t|**	<.0001
Sign	**M**	154.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26339	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	43.8
99%	22.0
95%	12.4
90%	8.2
75% Q3	4.4
50% Median	2.2
25% Q1	1.0
10%	0.5
5%	0.3
1%	-0.3
0% Min	-1.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1.0	64143	21.2	64154
-0.3	64176	22.0	64375
-0.3	64145	23.8	64394
-0.3	64137	34.2	64201
-0.3	64128	43.8	64078


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=3
50
40
30
20
10
0
Percent
0
4
8
12
16
20
24
28
32
36
40
44
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=4

Moments			
N	326	**Sum Weights**	326
Mean	3.43730061	**Sum Observations**	1120.56
Std Deviation	4.73959304	**Variance**	22.4637422
Skewness	4.26446396	**Kurtosis**	29.2699137
Uncorrected SS	11152.4178	**Corrected SS**	7300.71622
Coeff Variation	137.887068	**Std Error Mean**	0.26250178

Basic Statistical Measures			
Location		**Variability**	
Mean	3.437301	**Std Deviation**	4.73959
Median	1.900000	**Variance**	22.46374
Mode	0.500000	**Range**	49.60000
		Interquartile Range	3.18000

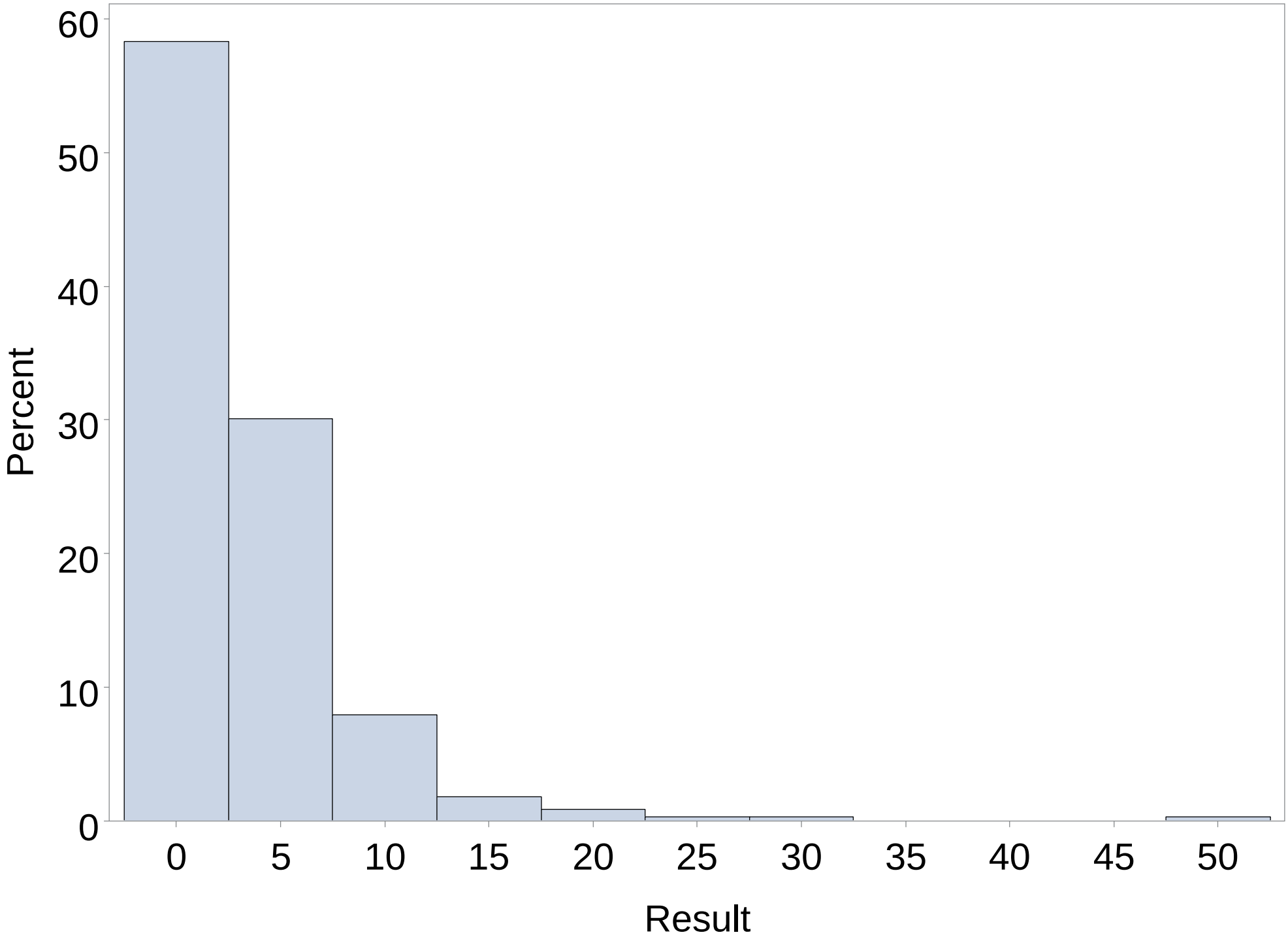
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.09439	**Pr > |t|**	<.0001
Sign	**M**	152	**Pr >= |M|**	<.0001
Signed Rank	**S**	26118	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	48.60
99%	22.20
95%	10.40
90%	9.10
75% Q3	3.98
50% Median	1.90
25% Q1	0.80
10%	0.50
5%	0.20
1%	-0.30
0% Min	-1.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1.0	64466	21.0	64698
-0.3	64506	22.2	64528
-0.3	64474	22.9	64641
-0.3	64455	29.0	64606
-0.3	64454	48.6	64405


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=4
Percent
60
50
40
30
20
10
0
0
5
10
15
20
25
30
35
40
45
50
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=5

Moments			
N	328	**Sum Weights**	328
Mean	3.88896341	**Sum Observations**	1275.58
Std Deviation	6.42491706	**Variance**	41.2795592
Skewness	6.90828789	**Kurtosis**	72.9358774
Uncorrected SS	18459.0998	**Corrected SS**	13498.4158
Coeff Variation	165.208987	**Std Error Mean**	0.3547567

Basic Statistical Measures			
Location		**Variability**	
Mean	3.888963	**Std Deviation**	6.42492
Median	2.000000	**Variance**	41.27956
Mode	0.500000	**Range**	83.60000
		Interquartile Range	3.70000

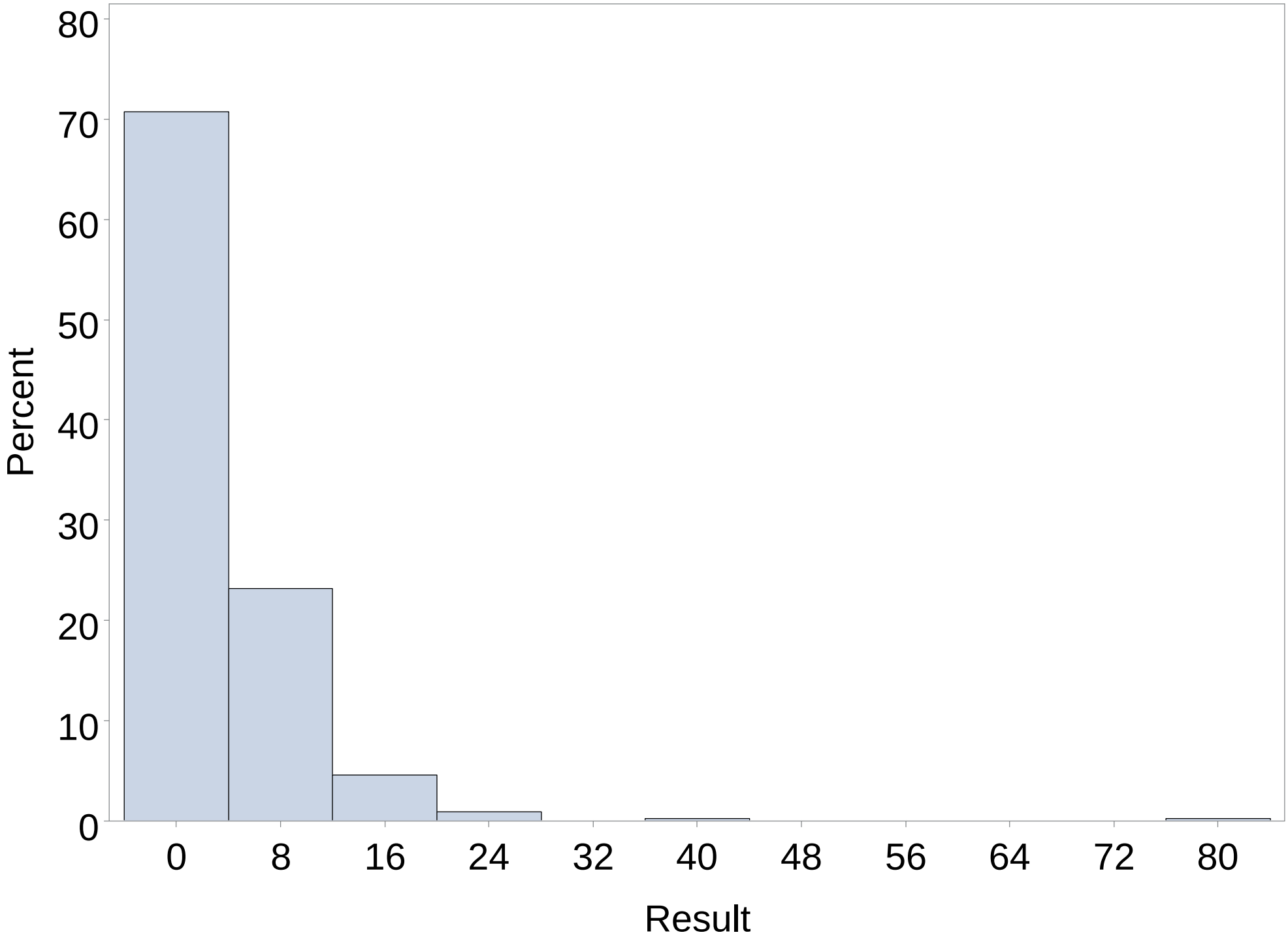
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.96234	**Pr > |t|**	<.0001
Sign	**M**	151.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26283.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	82.6
99%	23.1
95%	13.5
90%	9.8
75% Q3	4.6
50% Median	2.0
25% Q1	0.9
10%	0.5
5%	0.1
1%	-0.3
0% Min	-1.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1.0	64794	21.0	64931
-0.3	64843	23.1	64854
-0.3	64837	27.4	64969
-0.3	64832	42.9	64731
-0.3	64798	82.6	64759


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=5
Percent
80
70
60
50
40
30
20
10
0
0
8
16
24
32
40
48
56
64
72
80
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=6

Moments			
N	328	**Sum Weights**	328
Mean	2.98207317	**Sum Observations**	978.12
Std Deviation	4.09217109	**Variance**	16.7458642
Skewness	3.19826647	**Kurtosis**	13.4486031
Uncorrected SS	8392.723	**Corrected SS**	5475.89759
Coeff Variation	137.22571	**Std Error Mean**	0.22595235

Basic Statistical Measures			
Location		**Variability**	
Mean	2.982073	**Std Deviation**	4.09217
Median	1.650000	**Variance**	16.74586
Mode	0.500000	**Range**	31.90000
		Interquartile Range	2.55000

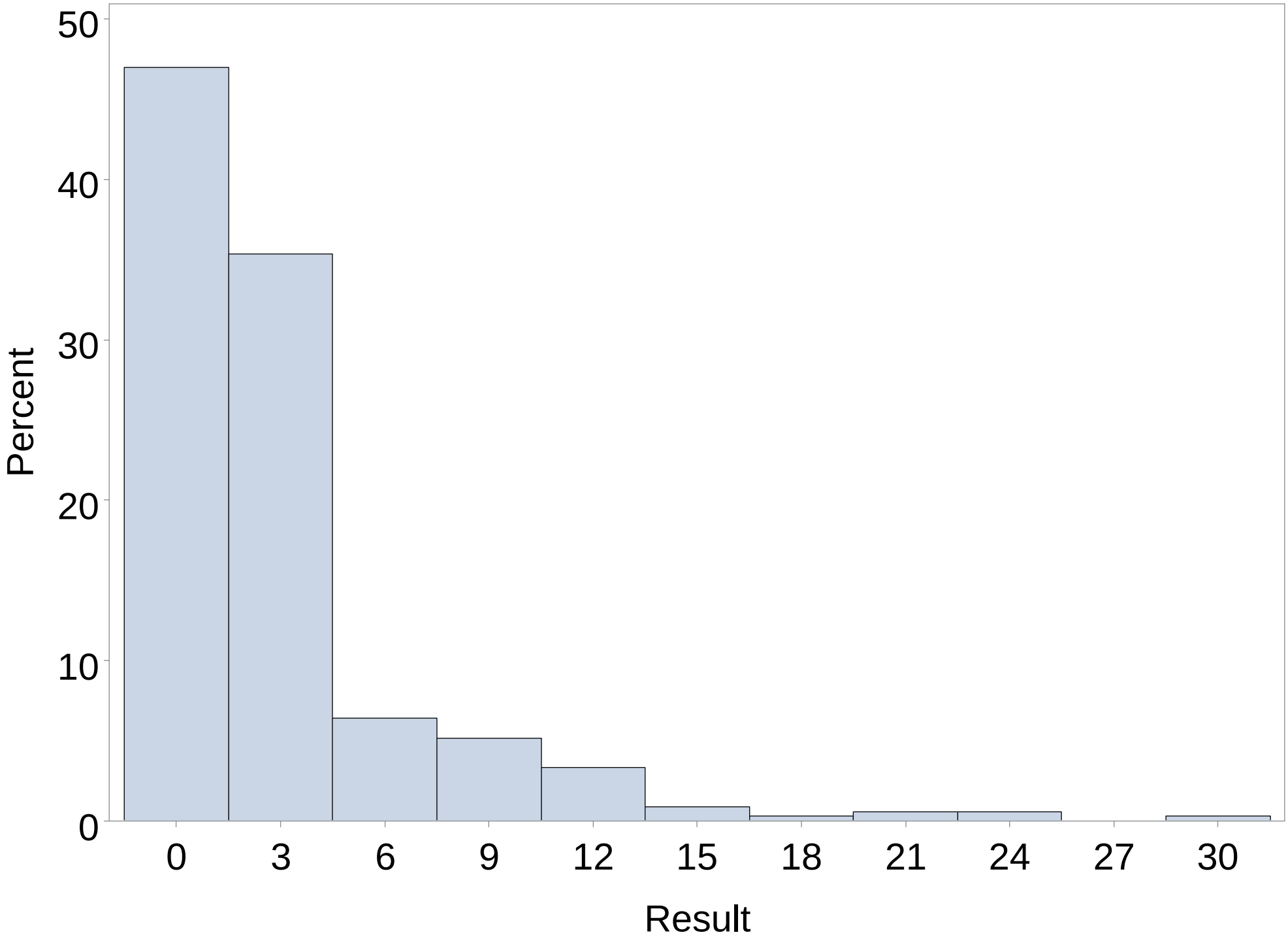
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.1978	**Pr > |t|**	<.0001
Sign	**M**	151	**Pr >= |M|**	<.0001
Signed Rank	**S**	26242.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.90
99%	21.40
95%	10.90
90%	8.20
75% Q3	3.25
50% Median	1.65
25% Q1	0.70
10%	0.50
5%	0.30
1%	-0.30
0% Min	-1.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1.0	65124	21.0	65354
-1.0	65122	21.4	65213
-1.0	65119	25.0	65297
-0.3	65171	25.1	65182
-0.3	65134	30.9	65059


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=6
50
40
30
20
10
0
Percent
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=7

Moments			
N	327	**Sum Weights**	327
Mean	3.91422018	**Sum Observations**	1279.95
Std Deviation	6.61920166	**Variance**	43.8138306
Skewness	4.99761466	**Kurtosis**	34.3445886
Uncorrected SS	19293.3149	**Corrected SS**	14283.3088
Coeff Variation	169.106523	**Std Error Mean**	0.36604269

Basic Statistical Measures			
Location		**Variability**	
Mean	3.914220	**Std Deviation**	6.61920
Median	1.800000	**Variance**	43.81383
Mode	0.500000	**Range**	67.00000
		Interquartile Range	3.70000

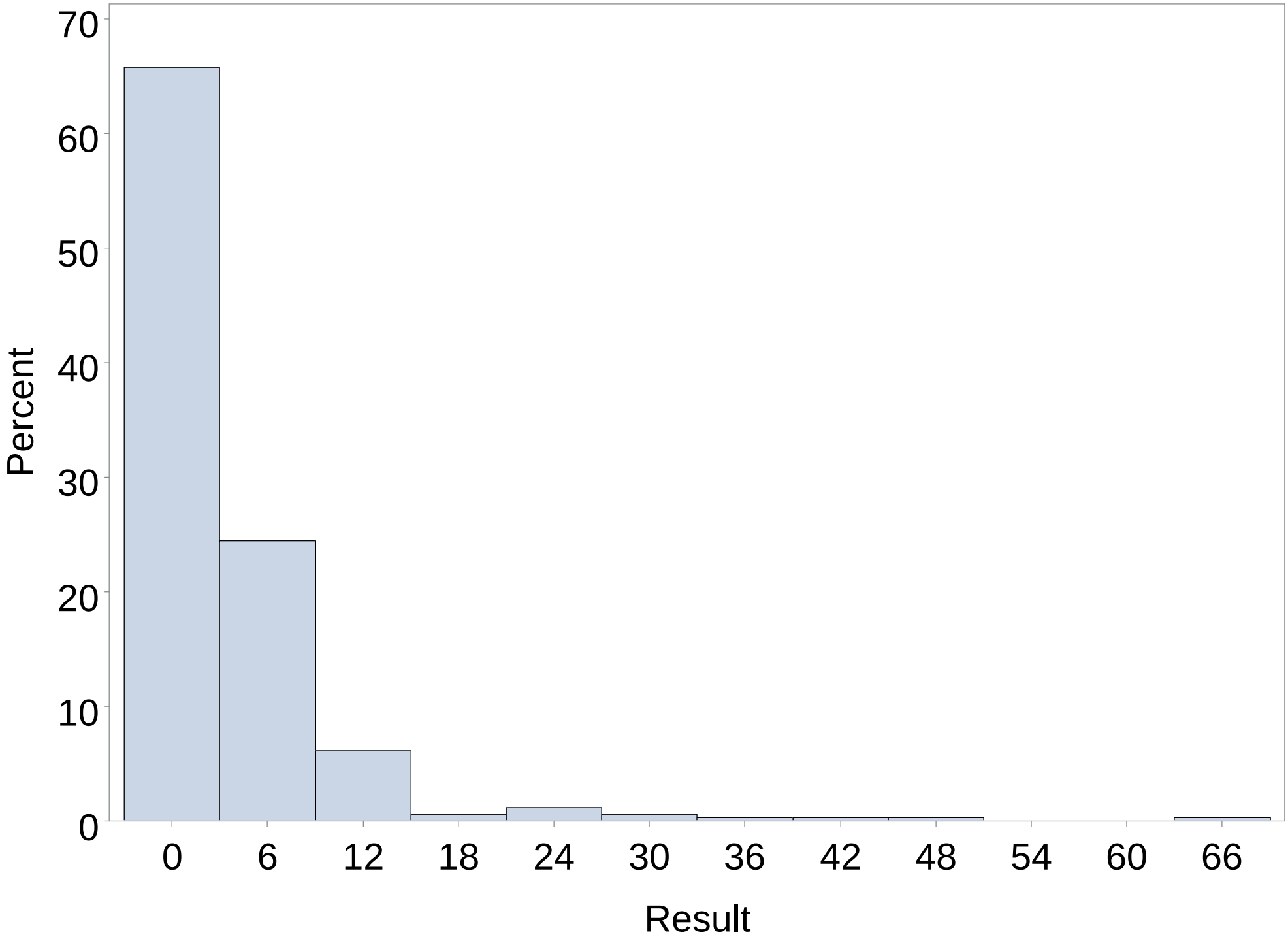
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.69334	**Pr > |t|**	<.0001
Sign	**M**	155	**Pr >= |M|**	<.0001
Signed Rank	**S**	26538.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	66.7
99%	34.8
95%	13.2
90%	8.9
75% Q3	4.5
50% Median	1.8
25% Q1	0.8
10%	0.5
5%	0.3
1%	-0.3
0% Min	-0.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.3	65493	27.4	65624
-0.3	65453	34.8	65394
-0.3	65437	39.1	65387
-0.3	65432	47.4	65541
-0.3	65431	66.7	65415


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=7
Percent
70
60
50
40
30
20
10
0
0
6
12
18
24
30
36
42
48
54
60
66
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=8

Moments			
N	327	**Sum Weights**	327
Mean	4.72963303	**Sum Observations**	1546.59
Std Deviation	12.594728	**Variance**	158.627174
Skewness	11.4854536	**Kurtosis**	165.955097
Uncorrected SS	59027.2619	**Corrected SS**	51712.4588
Coeff Variation	266.29398	**Std Error Mean**	0.69649005

Basic Statistical Measures			
Location		**Variability**	
Mean	4.729633	**Std Deviation**	12.59473
Median	2.000000	**Variance**	158.62717
Mode	0.500000	**Range**	197.10000
		Interquartile Range	4.60000

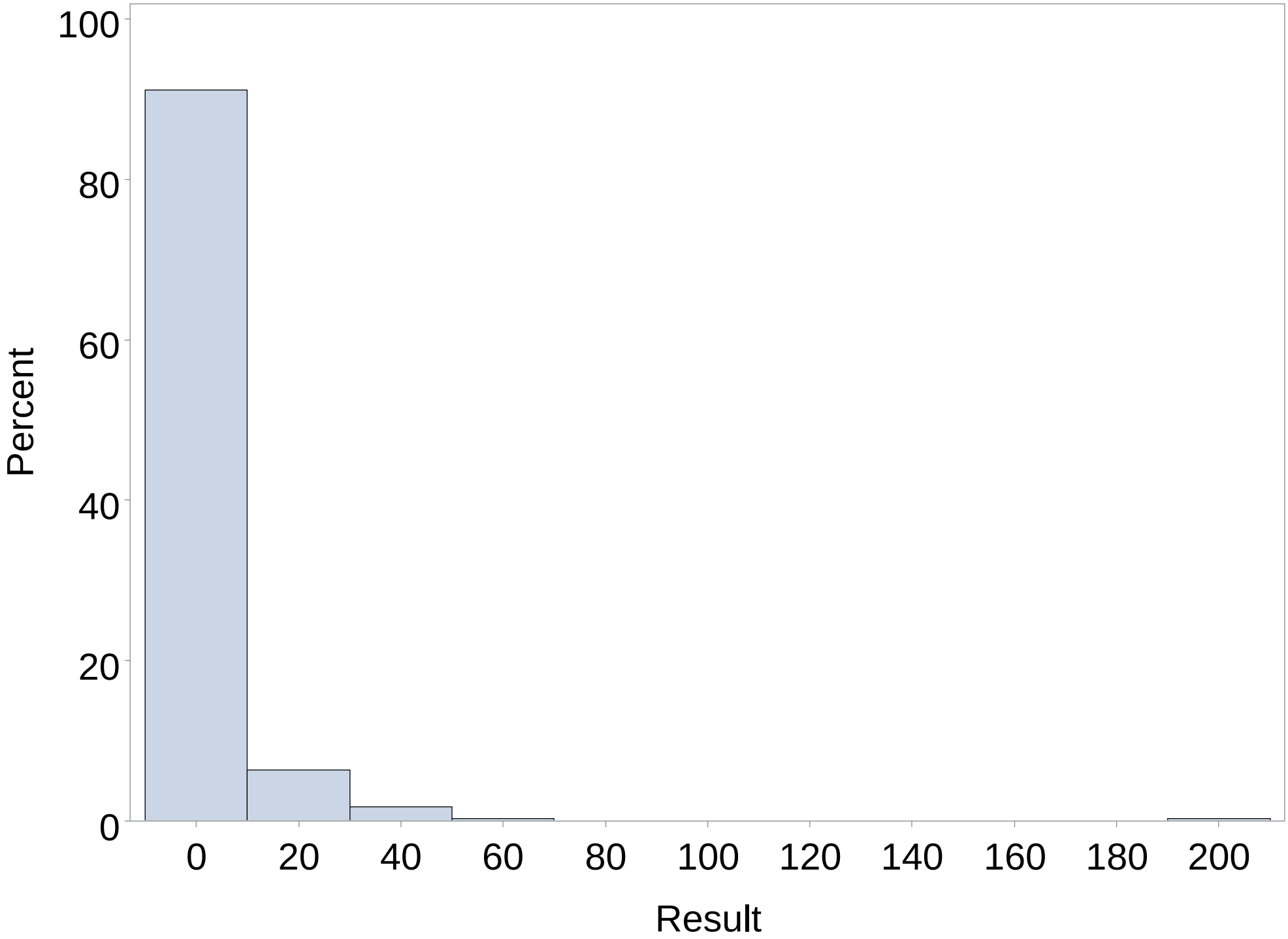
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	6.790668	**Pr > |t|**	<.0001
Sign	**M**	150	**Pr >= |M|**	<.0001
Signed Rank	**S**	25938	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	196.1
99%	41.8
95%	13.8
90%	9.5
75% Q3	5.2
50% Median	2.0
25% Q1	0.6
10%	0.5
5%	0.2
1%	-0.3
0% Min	-1.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1.0	65776	33.5	65868
-1.0	65775	41.8	65732
-1.0	65774	41.9	65736
-0.3	65825	64.8	65714
-0.3	65820	196.1	65742


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=8
Percent
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
200
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=9

Moments			
N	328	**Sum Weights**	328
Mean	5.41823171	**Sum Observations**	1777.18
Std Deviation	16.8512631	**Variance**	283.965068
Skewness	8.08256507	**Kurtosis**	72.2526984
Uncorrected SS	102485.75	**Corrected SS**	92856.5774
Coeff Variation	311.010382	**Std Error Mean**	0.93045535

Basic Statistical Measures			
Location		**Variability**	
Mean	5.418232	**Std Deviation**	16.85126
Median	1.800000	**Variance**	283.96507
Mode	0.500000	**Range**	190.40000
		Interquartile Range	3.90000

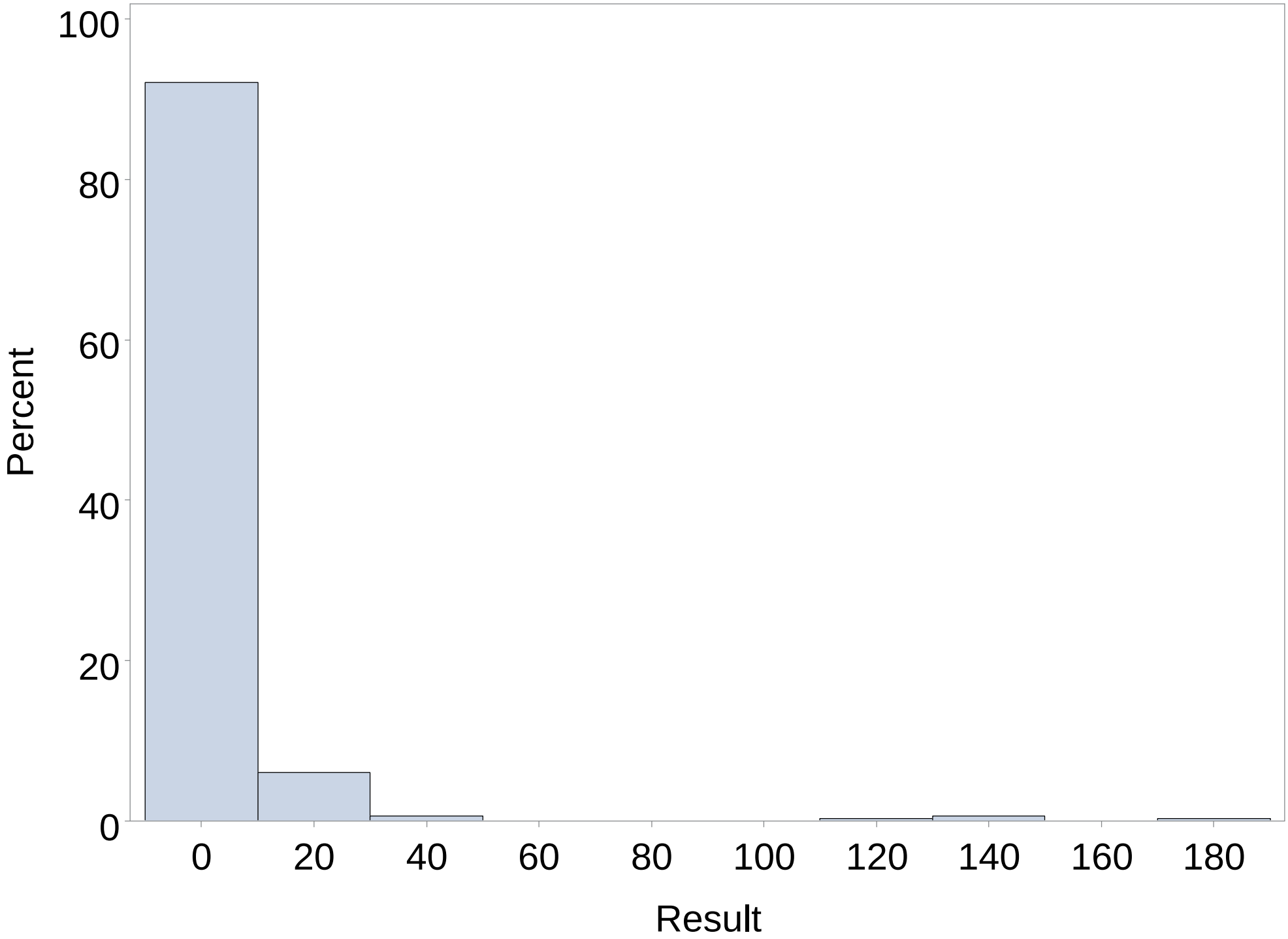
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	5.823204	**Pr > |t|**	<.0001
Sign	**M**	153	**Pr >= |M|**	<.0001
Signed Rank	**S**	26303	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	189.4
99%	121.2
95%	15.5
90%	8.4
75% Q3	4.6
50% Median	1.8
25% Q1	0.7
10%	0.5
5%	0.4
1%	-0.3
0% Min	-1.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-1.0	66104	41.3	66054
-1.0	66102	121.2	66062
-1.0	66101	132.5	66059
-0.3	66142	143.0	66215
-0.3	66126	189.4	66063


Parameter=Chlorophyll a Phaeophytin (ug/L) STATION=9
Percent
100
80
60
40
20
0
0
20
40
60
80
100
120
140
160
180
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	7.21402985	**Sum Observations**	2416.7
Std Deviation	0.43514764	**Variance**	0.18935347
Skewness	-0.2502482	**Kurtosis**	1.08926098
Uncorrected SS	17497.39	**Corrected SS**	63.2440597
Coeff Variation	6.03196345	**Std Error Mean**	0.02377466

Basic Statistical Measures			
Location		**Variability**	
Mean	7.214030	**Std Deviation**	0.43515
Median	7.300000	**Variance**	0.18935
Mode	7.300000	**Range**	3.20000
		Interquartile Range	0.50000

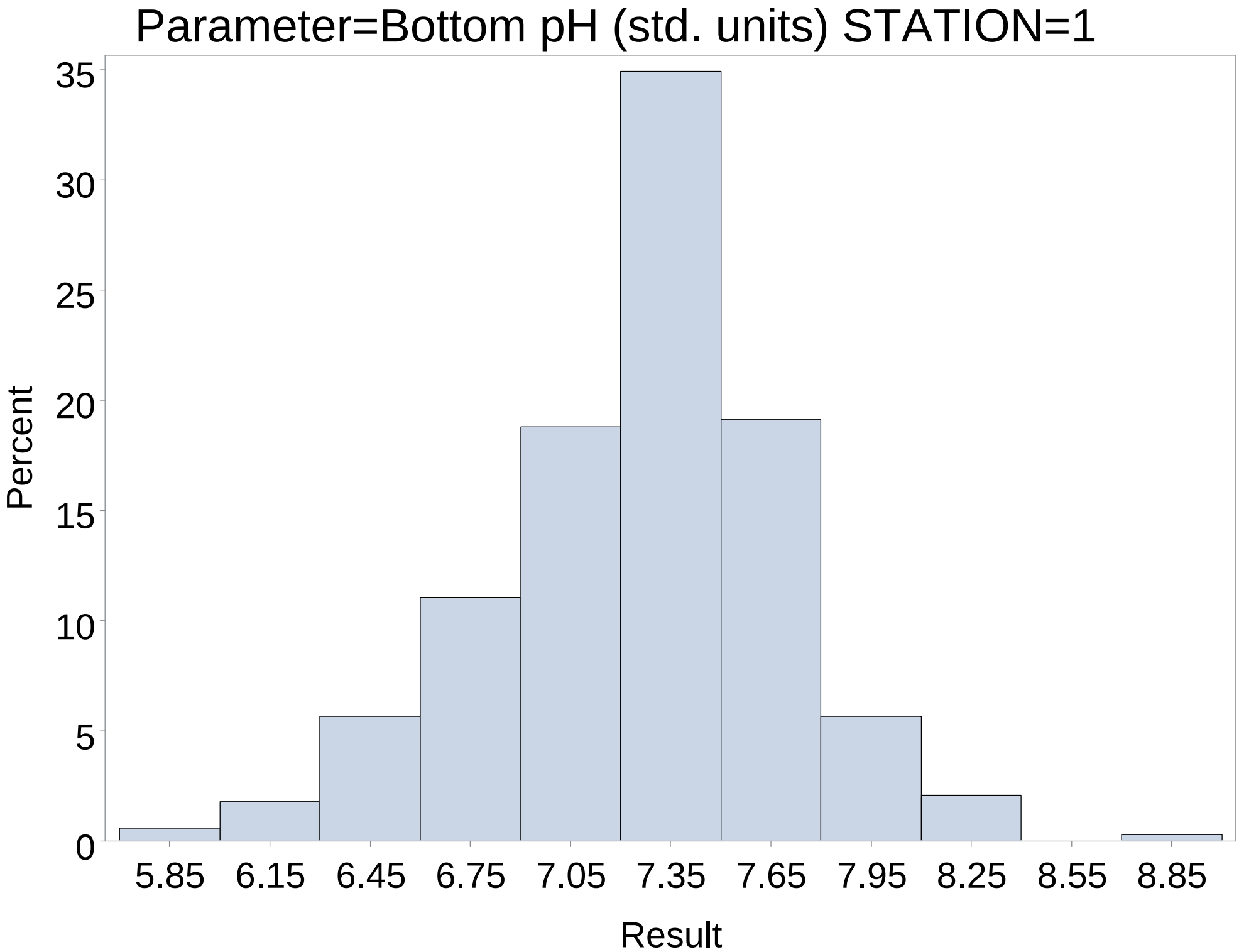
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	303.4336	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.9
99%	8.3
95%	7.9
90%	7.7
75% Q3	7.5
50% Median	7.3
25% Q1	7.0
10%	6.6
5%	6.5
1%	6.0
0% Min	5.7

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.7	66527	8.3	66485
5.9	66587	8.3	66486
6.0	66589	8.3	66563
6.0	66526	8.3	66578
6.1	66404	8.9	66658


Parameter=Bottom pH (std. units) STATION=1
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	7.31351351	**Sum Observations**	2435.4
Std Deviation	0.34956595	**Variance**	0.12219635
Skewness	-0.4944881	**Kurtosis**	1.55630382
Uncorrected SS	17851.9	**Corrected SS**	40.5691892
Coeff Variation	4.77972658	**Std Error Mean**	0.0191561

Basic Statistical Measures			
Location		**Variability**	
Mean	7.313514	**Std Deviation**	0.34957
Median	7.400000	**Variance**	0.12220
Mode	7.500000	**Range**	2.80000
		Interquartile Range	0.40000

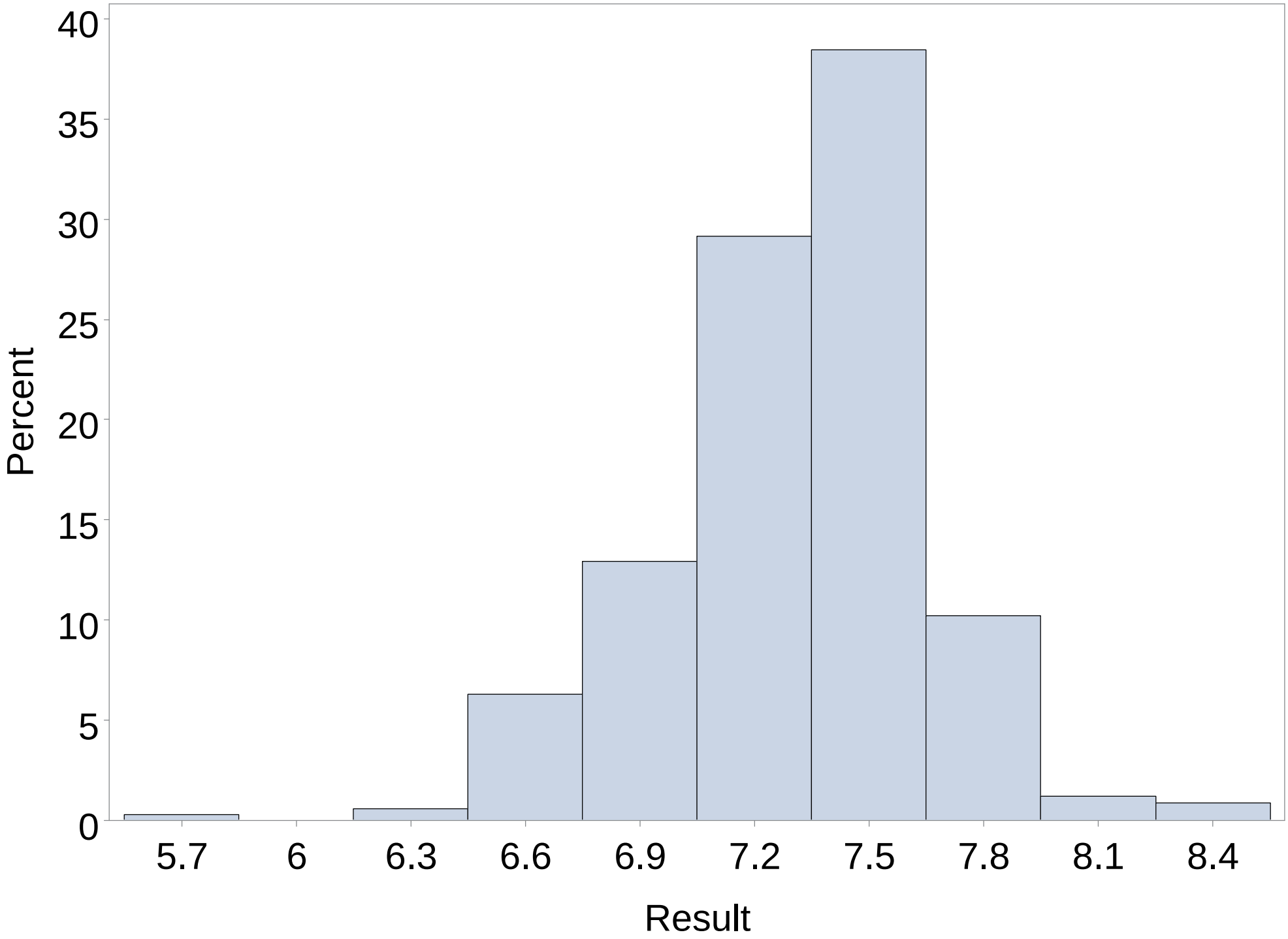
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	381.7852	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.1
95%	7.8
90%	7.7
75% Q3	7.5
50% Median	7.4
25% Q1	7.1
10%	6.9
5%	6.7
1%	6.5
0% Min	5.7

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.7	66860	8.0	66936
6.2	66859	8.1	66754
6.4	66739	8.3	66819
6.5	66920	8.3	66911
6.5	66738	8.5	66820


Parameter=Bottom pH (std. units) STATION=2
Percent
40
35
30
25
20
15
10
5
0
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	7.33393393	**Sum Observations**	2442.2
Std Deviation	0.52240912	**Variance**	0.27291128
Skewness	-1.1825001	**Kurtosis**	4.20093039
Uncorrected SS	18001.54	**Corrected SS**	90.6065465
Coeff Variation	7.12317729	**Std Error Mean**	0.02862784

Basic Statistical Measures			
Location		**Variability**	
Mean	7.333934	**Std Deviation**	0.52241
Median	7.400000	**Variance**	0.27291
Mode	7.700000	**Range**	4.30000
		Interquartile Range	0.70000

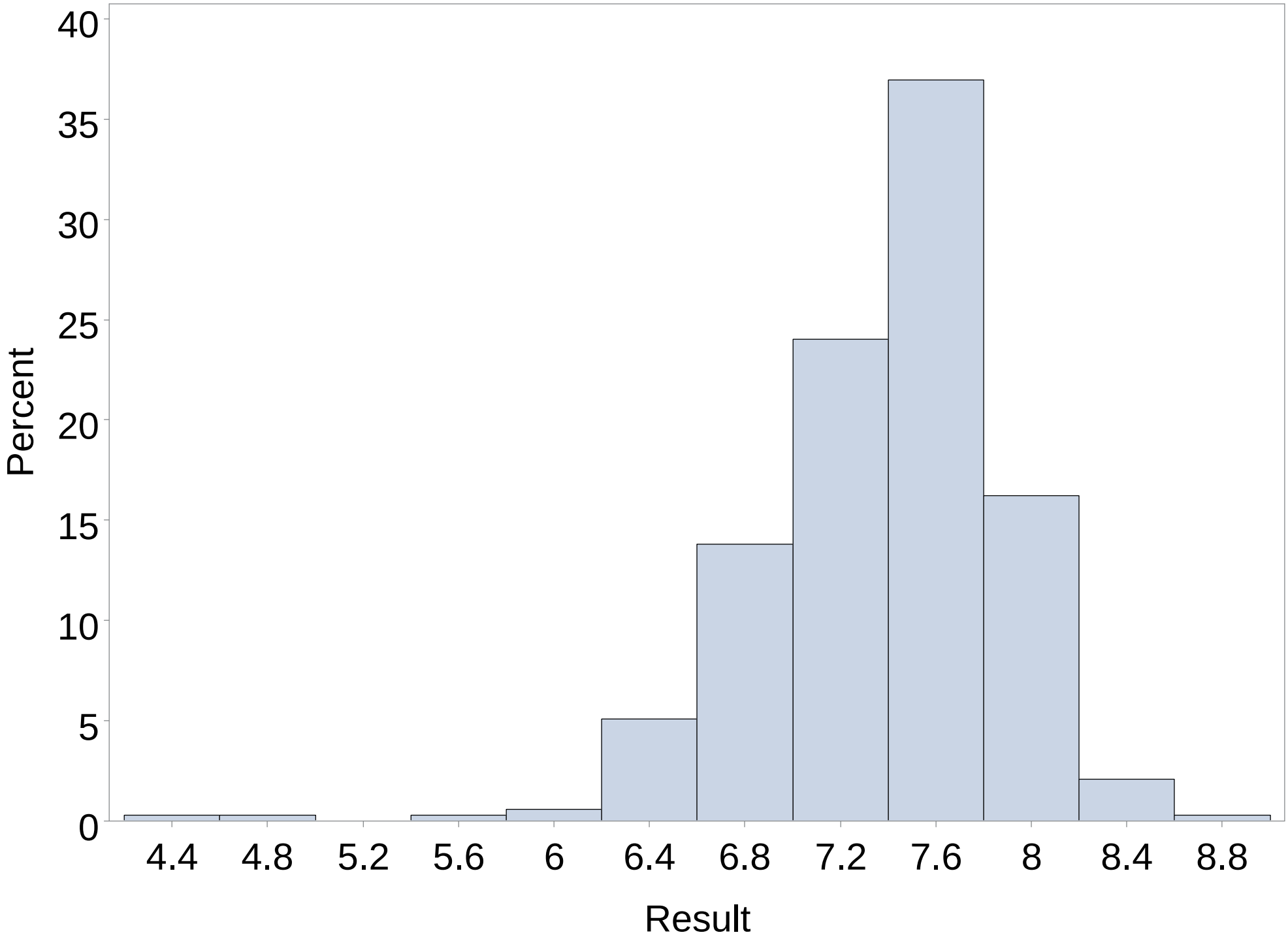
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	256.1819	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.8
99%	8.3
95%	8.1
90%	7.9
75% Q3	7.7
50% Median	7.4
25% Q1	7.0
10%	6.7
5%	6.4
1%	6.0
0% Min	4.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.5	67337	8.2	67270
4.6	67179	8.3	67229
5.5	67193	8.3	67244
6.0	67345	8.4	67153
6.1	67072	8.8	67234


Parameter=Bottom pH (std. units) STATION=3
Percent
40
35
30
25
20
15
10
5
0
4.4
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
8.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=4

Moments			
N	333	**Sum Weights**	333
Mean	7.17537538	**Sum Observations**	2389.4
Std Deviation	0.3894624	**Variance**	0.15168096
Skewness	-0.519774	**Kurtosis**	1.6486607
Uncorrected SS	17195.2	**Corrected SS**	50.3580781
Coeff Variation	5.42776337	**Std Error Mean**	0.02134241

Basic Statistical Measures			
Location		**Variability**	
Mean	7.175375	**Std Deviation**	0.38946
Median	7.200000	**Variance**	0.15168
Mode	7.300000	**Range**	3.20000
		Interquartile Range	0.50000

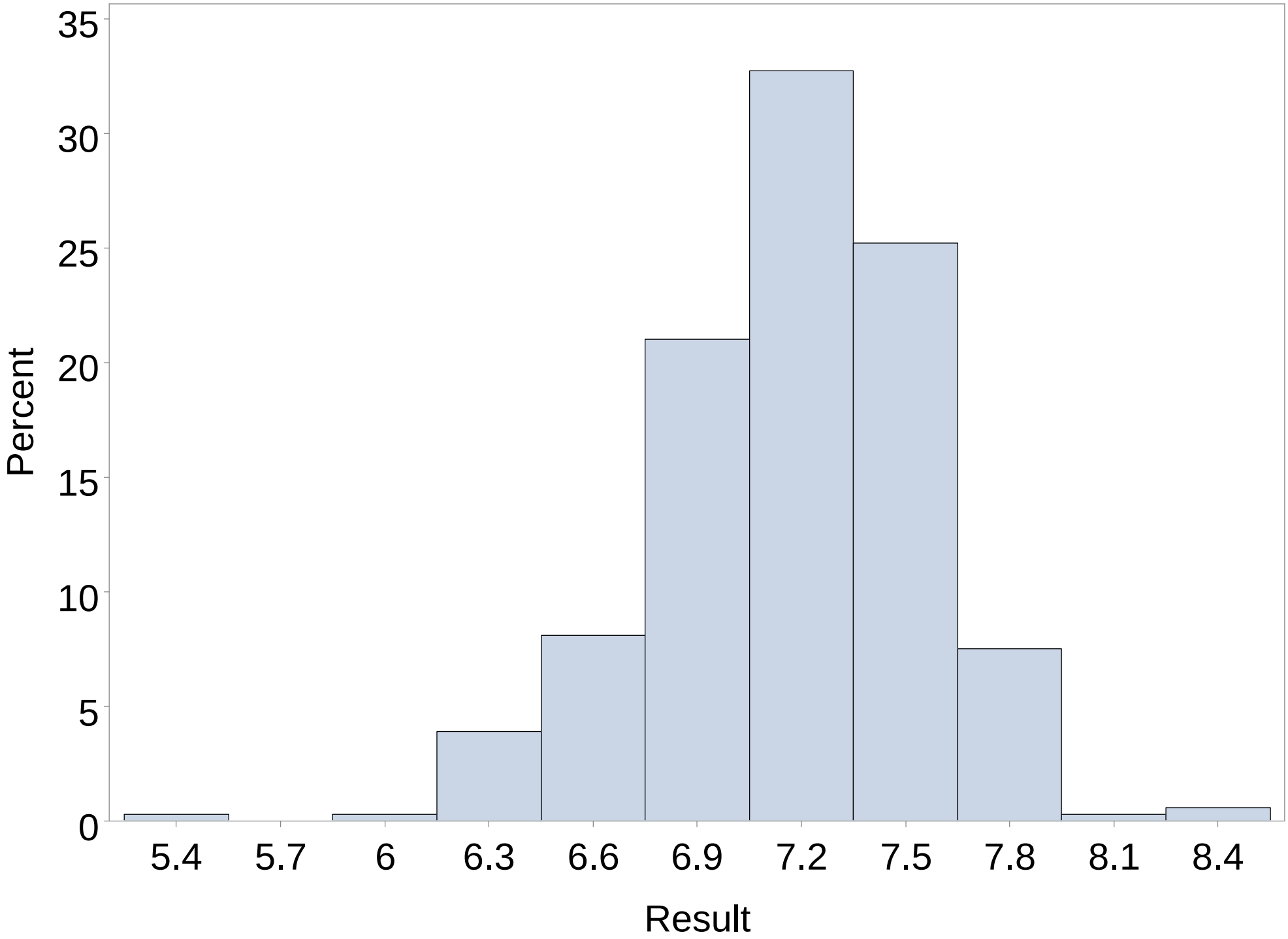
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	336.2027	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	7.9
95%	7.7
90%	7.6
75% Q3	7.4
50% Median	7.2
25% Q1	6.9
10%	6.7
5%	6.5
1%	6.2
0% Min	5.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.3	67527	7.9	67433
6.0	67405	7.9	67529
6.2	67526	8.0	67447
6.2	67452	8.4	67487
6.2	67404	8.5	67486


Parameter=Bottom pH (std. units) STATION=4
Percent
35
30
25
20
15
10
5
0
5.4
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	7.22149254	**Sum Observations**	2419.2
Std Deviation	0.47822418	**Variance**	0.22869836
Skewness	-3.6508433	**Kurtosis**	35.9188248
Uncorrected SS	17546.62	**Corrected SS**	76.3852537
Coeff Variation	6.62223461	**Std Error Mean**	0.02612818

Basic Statistical Measures			
Location		**Variability**	
Mean	7.221493	**Std Deviation**	0.47822
Median	7.300000	**Variance**	0.22870
Mode	7.400000	**Range**	6.40000
		Interquartile Range	0.50000

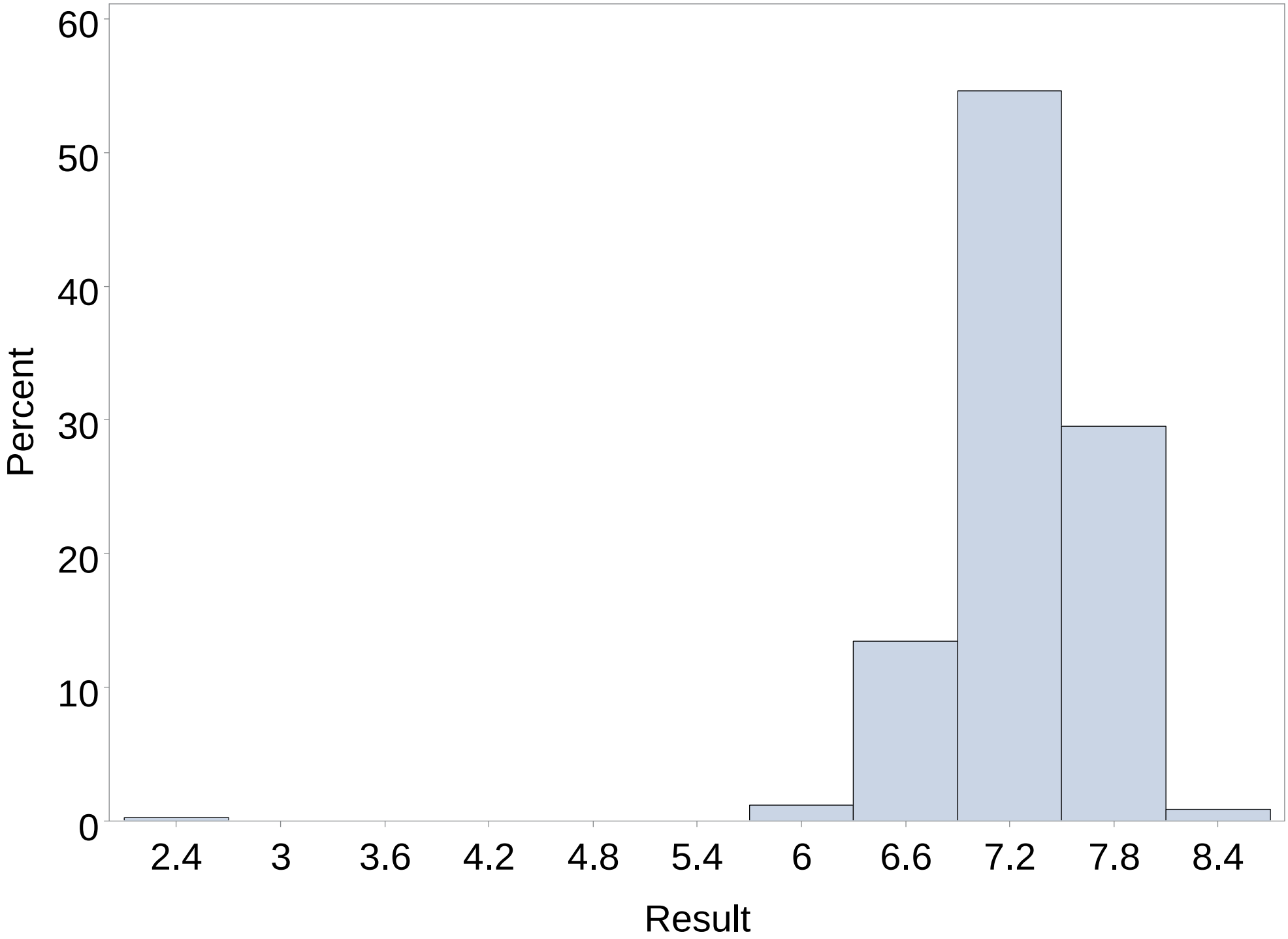
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	276.3871	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	7.9
95%	7.7
90%	7.6
75% Q3	7.5
50% Median	7.3
25% Q1	7.0
10%	6.7
5%	6.5
1%	6.1
0% Min	2.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.2	68005	7.9	67900
5.8	67861	7.9	68017
6.0	67739	8.5	67821
6.1	67738	8.6	67820
6.2	67699	8.6	67842


Parameter=Bottom pH (std. units) STATION=5
Percent
60
50
40
30
20
10
0
2.4
3
3.6
4.2
4.8
5.4
6
6.6
7.2
7.8
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	7.25285285	**Sum Observations**	2415.2
Std Deviation	0.38003563	**Variance**	0.14442708
Skewness	-0.6148016	**Kurtosis**	1.06738193
Uncorrected SS	17565.04	**Corrected SS**	47.9497898
Coeff Variation	5.23980887	**Std Error Mean**	0.02082582

Basic Statistical Measures			
Location		**Variability**	
Mean	7.252853	**Std Deviation**	0.38004
Median	7.300000	**Variance**	0.14443
Mode	7.200000	**Range**	2.90000
		Interquartile Range	0.50000

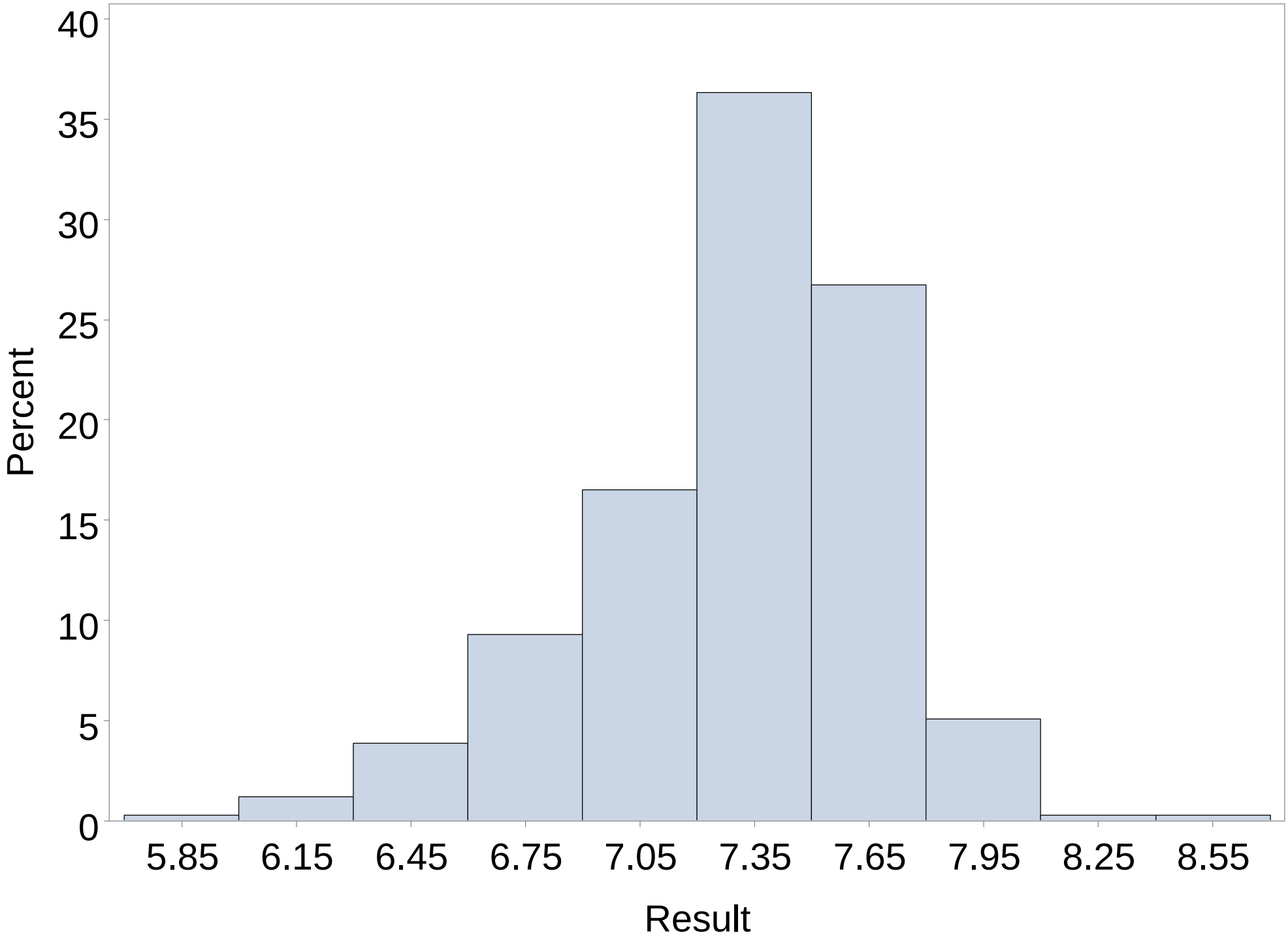
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	348.2625	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.0
95%	7.8
90%	7.7
75% Q3	7.5
50% Median	7.3
25% Q1	7.0
10%	6.7
5%	6.5
1%	6.2
0% Min	5.7

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.7	68194	7.9	68350
6.0	68073	8.0	68230
6.2	68120	8.0	68302
6.2	68072	8.1	68176
6.2	68034	8.6	68155


Parameter=Bottom pH (std. units) STATION=6
Percent
40
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	7.3009009	**Sum Observations**	2431.2
Std Deviation	0.42839617	**Variance**	0.18352328
Skewness	-1.6525415	**Kurtosis**	8.88896816
Uncorrected SS	17810.88	**Corrected SS**	60.9297297
Coeff Variation	5.86771661	**Std Error Mean**	0.02347597

Basic Statistical Measures			
Location		**Variability**	
Mean	7.300901	**Std Deviation**	0.42840
Median	7.400000	**Variance**	0.18352
Mode	7.400000	**Range**	4.40000
		Interquartile Range	0.50000

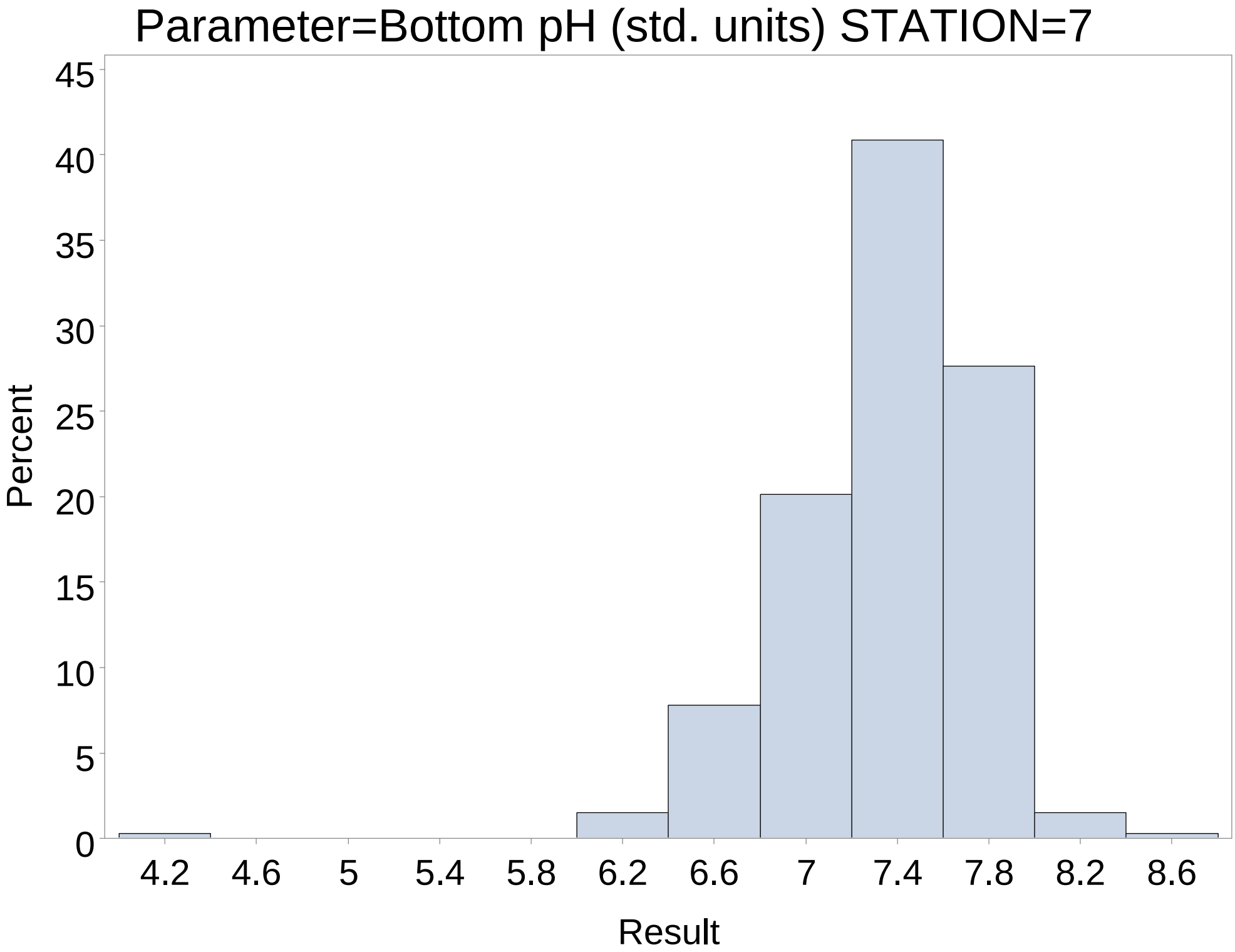
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	310.9947	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.1
95%	7.8
90%	7.8
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.2
0% Min	4.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.1	68393	8.0	68635
6.0	68527	8.1	68603
6.0	68406	8.1	68683
6.2	68416	8.2	68563
6.2	68405	8.5	68488


Parameter=Bottom pH (std. units) STATION=7
Percent
45
40
35
30
25
20
15
10
5
0
4.2
4.6
5
5.4
5.8
6.2
6.6
7
7.4
7.8
8.2
8.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	7.38468468	**Sum Observations**	2459.1
Std Deviation	0.47431591	**Variance**	0.22497558
Skewness	-0.7766631	**Kurtosis**	0.61724076
Uncorrected SS	18234.37	**Corrected SS**	74.6918919
Coeff Variation	6.42296761	**Std Error Mean**	0.02599235

Basic Statistical Measures			
Location		**Variability**	
Mean	7.384685	**Std Deviation**	0.47432
Median	7.500000	**Variance**	0.22498
Mode	7.500000	**Range**	2.90000
		Interquartile Range	0.60000

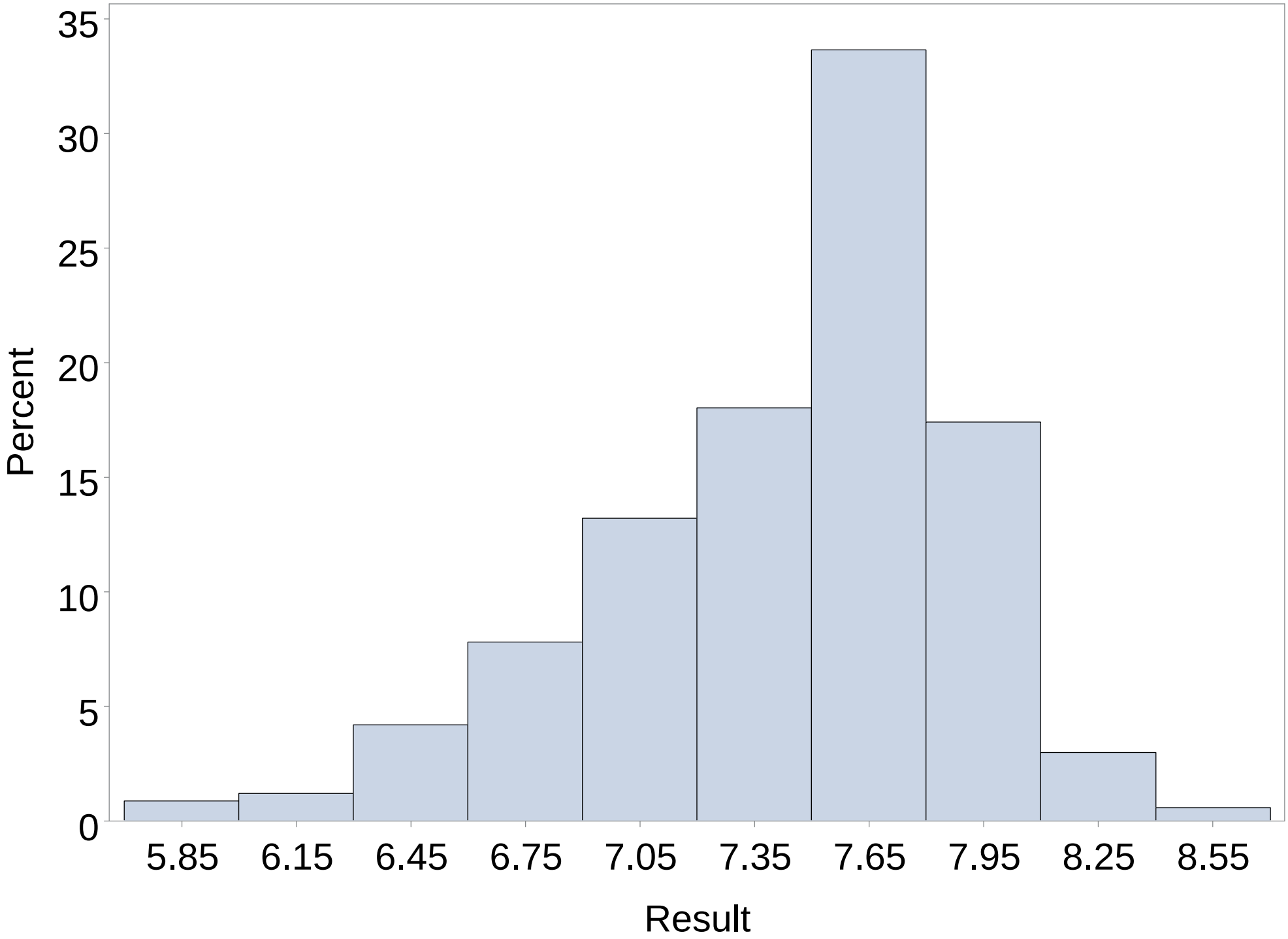
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	284.1099	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.2
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.5
25% Q1	7.1
10%	6.7
5%	6.5
1%	6.1
0% Min	5.7

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.7	68739	8.2	68936
5.8	68860	8.2	69016
5.9	68700	8.3	68896
6.1	68786	8.5	68821
6.1	68749	8.6	68849


Parameter=Bottom pH (std. units) STATION=8
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	7.42732733	**Sum Observations**	2473.3
Std Deviation	0.46911003	**Variance**	0.22006422
Skewness	-0.6458712	**Kurtosis**	0.77261742
Uncorrected SS	18443.07	**Corrected SS**	73.0613213
Coeff Variation	6.31600049	**Std Error Mean**	0.02570707

Basic Statistical Measures			
Location		**Variability**	
Mean	7.427327	**Std Deviation**	0.46911
Median	7.500000	**Variance**	0.22006
Mode	7.700000	**Range**	3.20000
		Interquartile Range	0.60000

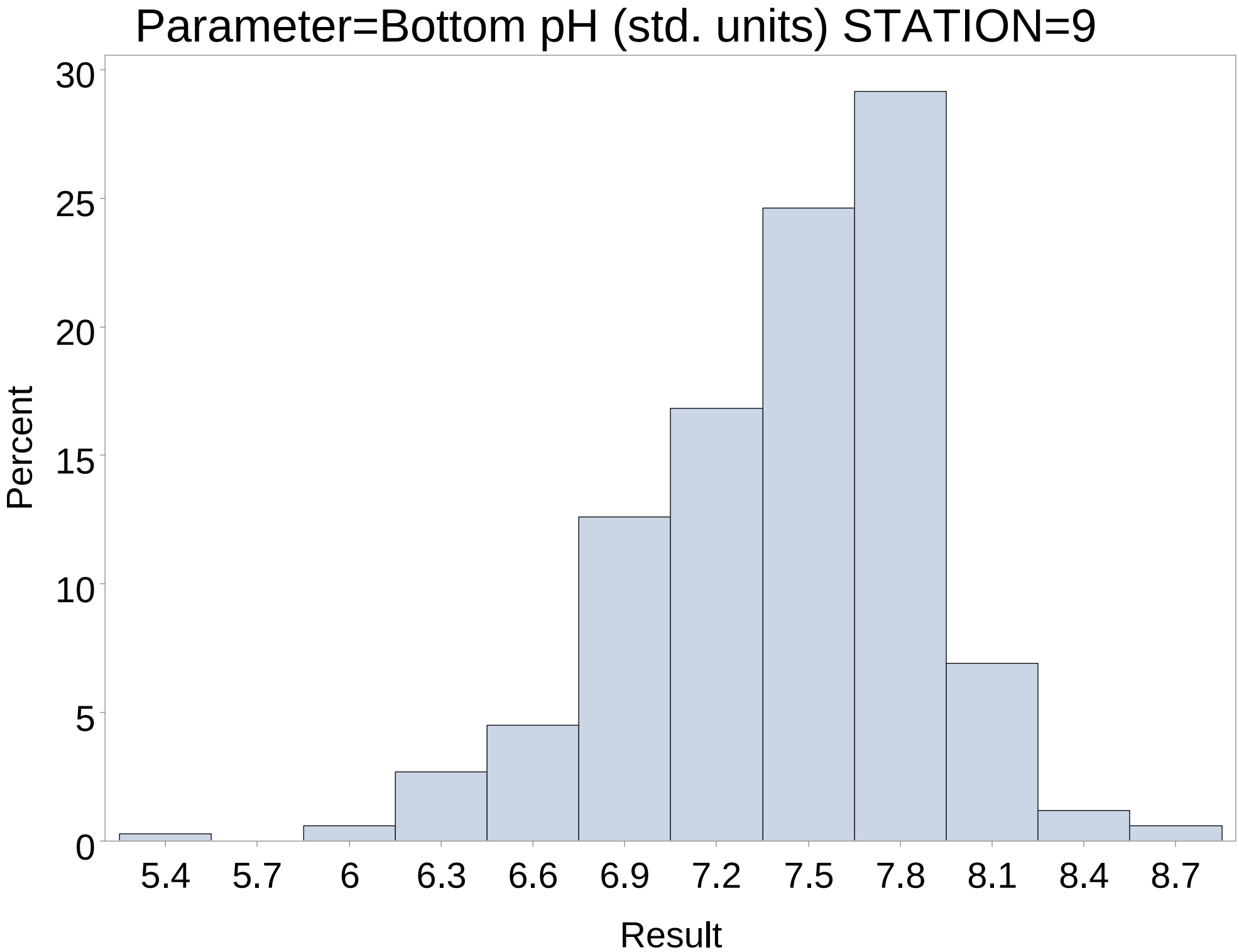
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	288.9216	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.7
99%	8.3
95%	8.1
90%	7.9
75% Q3	7.7
50% Median	7.5
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.2
0% Min	5.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.5	69028	8.3	69229
5.9	69072	8.3	69269
6.1	69119	8.4	69154
6.2	69082	8.6	69182
6.2	69033	8.7	69038


Parameter=Bottom pH (std. units) STATION=9
Percent
30
25
20
15
10
5
0
5.4
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=10

Moments			
N	334	**Sum Weights**	334
Mean	7.2994012	**Sum Observations**	2438
Std Deviation	0.4379857	**Variance**	0.19183147
Skewness	-0.3983054	**Kurtosis**	0.5038909
Uncorrected SS	17859.82	**Corrected SS**	63.8798802
Coeff Variation	6.00029628	**Std Error Mean**	0.02396551

Basic Statistical Measures			
Location		**Variability**	
Mean	7.299401	**Std Deviation**	0.43799
Median	7.300000	**Variance**	0.19183
Mode	7.400000	**Range**	3.10000
		Interquartile Range	0.60000

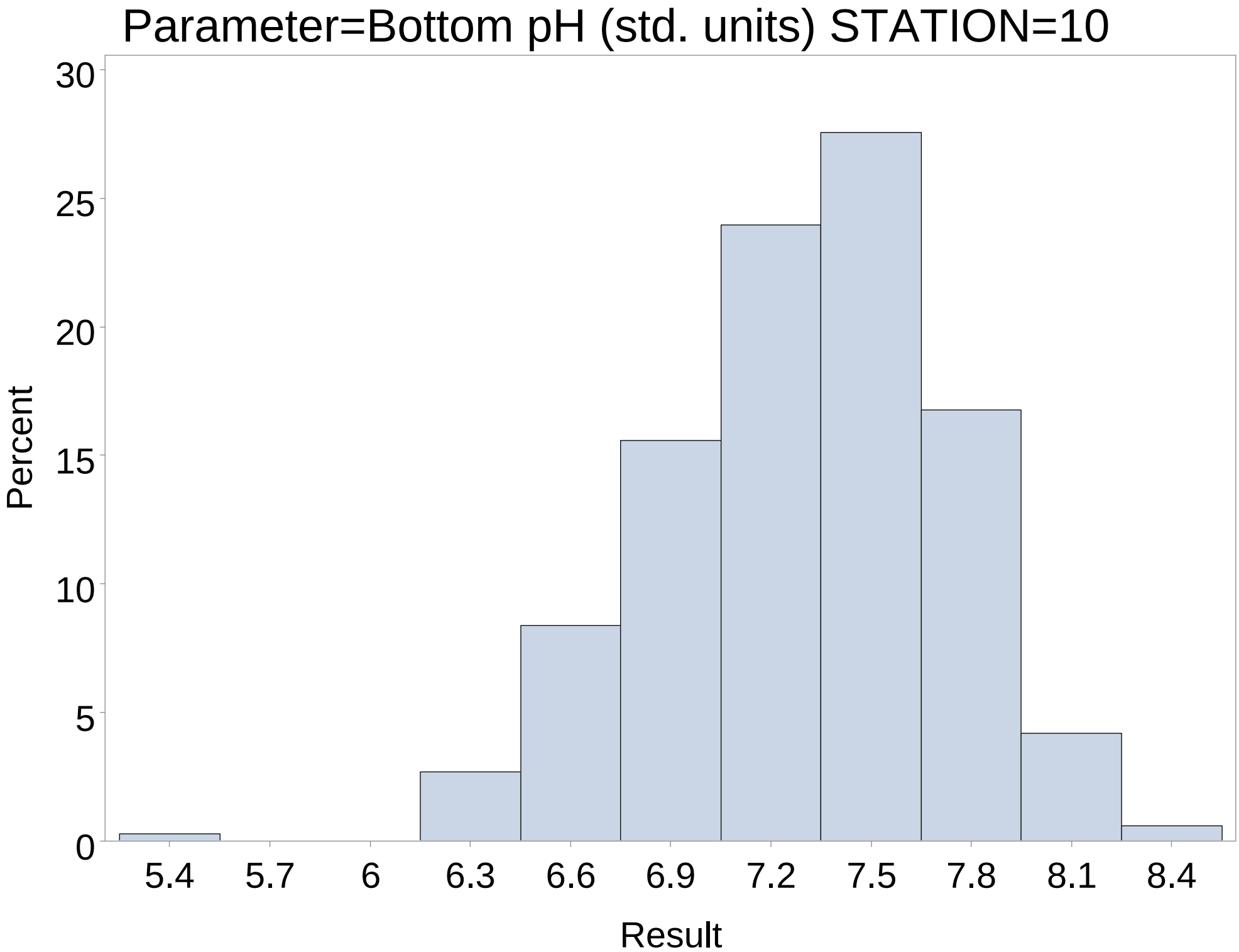
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	304.5794	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.1
95%	7.9
90%	7.8
75% Q3	7.6
50% Median	7.3
25% Q1	7.0
10%	6.7
5%	6.5
1%	6.3
0% Min	5.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.4	69528	8.1	69600
6.2	69453	8.1	69682
6.2	69406	8.2	69683
6.3	69405	8.3	69487
6.3	69404	8.5	69488


Parameter=Bottom pH (std. units) STATION=10
Percent
30
25
20
15
10
5
0
5.4
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=11

Moments			
N	331	**Sum Weights**	331
Mean	7.2836858	**Sum Observations**	2410.9
Std Deviation	0.41579389	**Variance**	0.17288456
Skewness	-0.3018977	**Kurtosis**	0.6375894
Uncorrected SS	17617.29	**Corrected SS**	57.0519033
Coeff Variation	5.70856428	**Std Error Mean**	0.0228541

Basic Statistical Measures			
Location		**Variability**	
Mean	7.283686	**Std Deviation**	0.41579
Median	7.300000	**Variance**	0.17288
Mode	7.400000	**Range**	3.00000
		Interquartile Range	0.60000

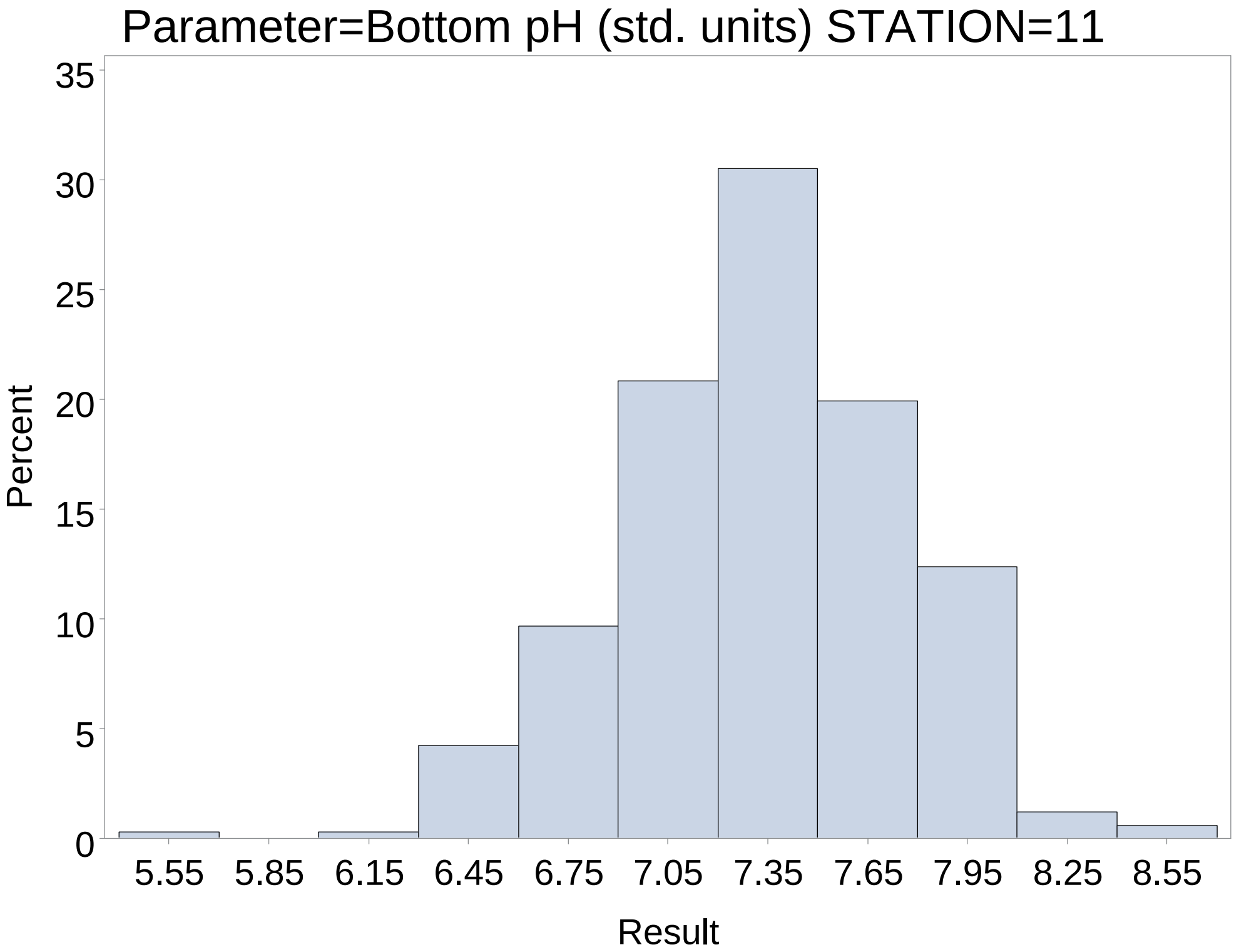
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	318.7037	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.1
95%	7.9
90%	7.8
75% Q3	7.6
50% Median	7.3
25% Q1	7.0
10%	6.7
5%	6.6
1%	6.3
0% Min	5.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.5	69860	8.1	69852
6.1	69739	8.1	69862
6.3	69946	8.1	69930
6.3	69738	8.5	69819
6.3	69700	8.5	69820


Parameter=Bottom pH (std. units) STATION=11
Percent
35
30
25
20
15
10
5
0
5.55
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=12

Moments			
N	331	**Sum Weights**	331
Mean	7.18489426	**Sum Observations**	2378.2
Std Deviation	0.36978483	**Variance**	0.13674082
Skewness	-0.5839999	**Kurtosis**	1.65721681
Uncorrected SS	17132.24	**Corrected SS**	45.1244713
Coeff Variation	5.14669832	**Std Error Mean**	0.02032521

Basic Statistical Measures			
Location		**Variability**	
Mean	7.184894	**Std Deviation**	0.36978
Median	7.200000	**Variance**	0.13674
Mode	7.300000	**Range**	3.00000
		Interquartile Range	0.40000

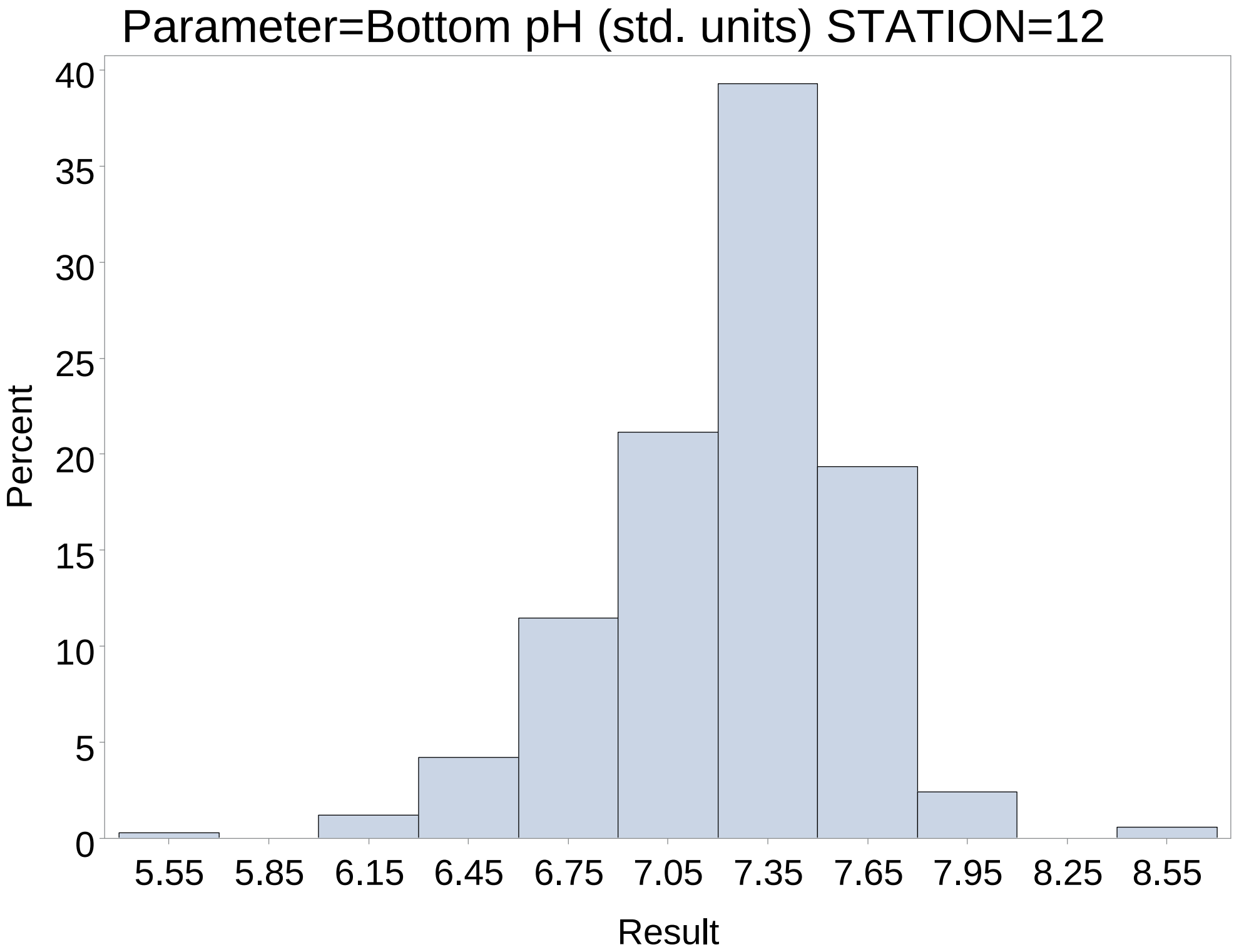
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	353.4966	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	7.9
95%	7.7
90%	7.6
75% Q3	7.4
50% Median	7.2
25% Q1	7.0
10%	6.7
5%	6.5
1%	6.2
0% Min	5.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.5	70192	7.8	70284
6.0	70070	7.9	70087
6.2	70117	7.9	70266
6.2	70069	8.4	70151
6.2	70031	8.5	70152


Parameter=Bottom pH (std. units) STATION=12
Percent
40
35
30
25
20
15
10
5
0
5.55
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=13

Moments			
N	332	**Sum Weights**	332
Mean	7.21084337	**Sum Observations**	2394
Std Deviation	0.39483433	**Variance**	0.15589415
Skewness	-0.4203727	**Kurtosis**	1.4438322
Uncorrected SS	17314.36	**Corrected SS**	51.6009639
Coeff Variation	5.47556385	**Std Error Mean**	0.02166935

Basic Statistical Measures			
Location		**Variability**	
Mean	7.210843	**Std Deviation**	0.39483
Median	7.300000	**Variance**	0.15589
Mode	7.400000	**Range**	3.00000
		Interquartile Range	0.50000

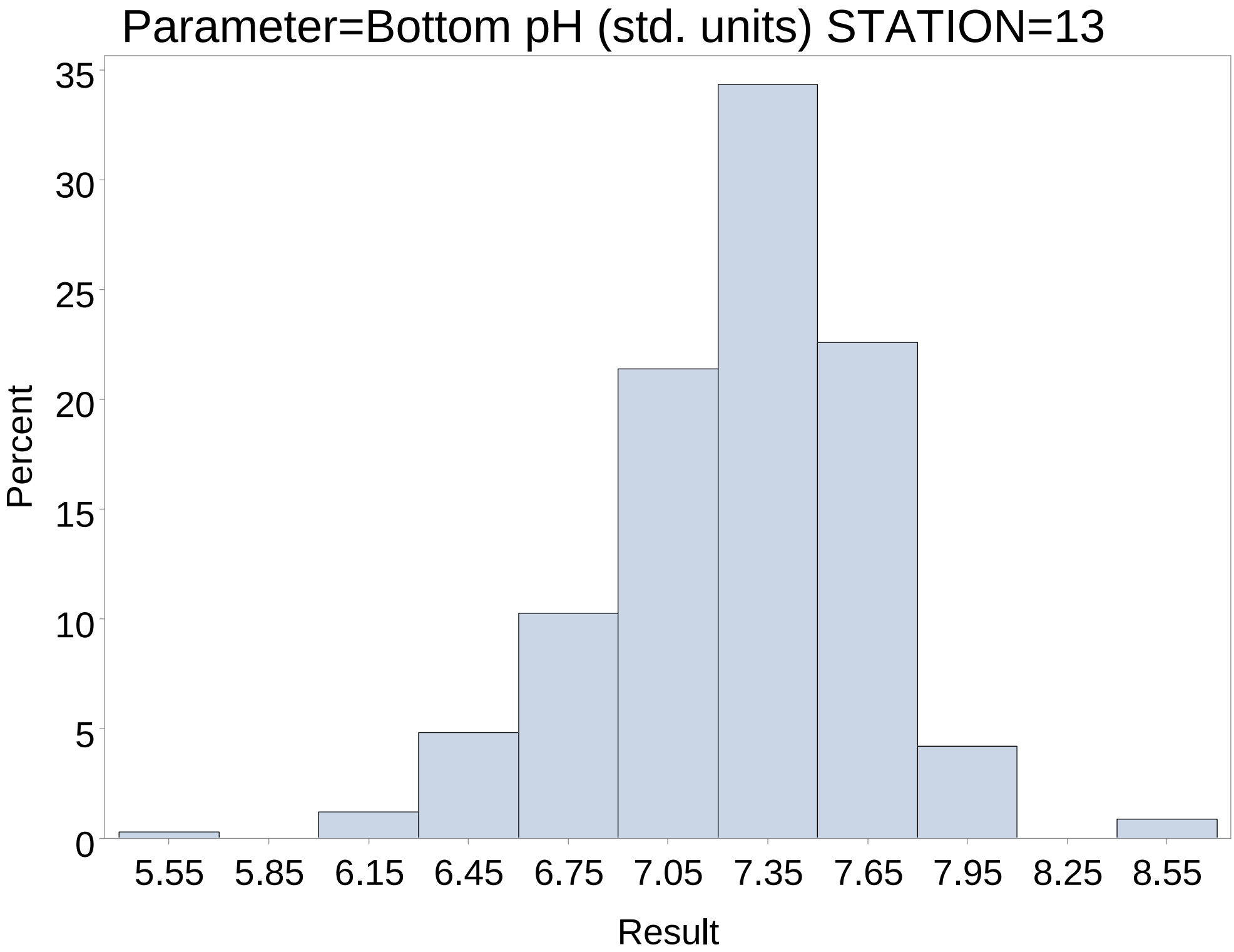
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	332.767	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.0
95%	7.8
90%	7.6
75% Q3	7.5
50% Median	7.3
25% Q1	7.0
10%	6.7
5%	6.5
1%	6.1
0% Min	5.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.6	70523	7.9	70677
6.0	70401	8.0	70504
6.1	70509	8.5	70483
6.1	70400	8.5	70619
6.2	70362	8.6	70482


Parameter=Bottom pH (std. units) STATION=13
Percent
35
30
25
20
15
10
5
0
5.55
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=14

Moments			
N	332	**Sum Weights**	332
Mean	7.26325301	**Sum Observations**	2411.4
Std Deviation	0.39928821	**Variance**	0.15943108
Skewness	-0.1280511	**Kurtosis**	2.05262779
Uncorrected SS	17567.38	**Corrected SS**	52.7716867
Coeff Variation	5.49737443	**Std Error Mean**	0.02191379

Basic Statistical Measures			
Location		**Variability**	
Mean	7.263253	**Std Deviation**	0.39929
Median	7.300000	**Variance**	0.15943
Mode	7.200000	**Range**	3.30000
		Interquartile Range	0.50000

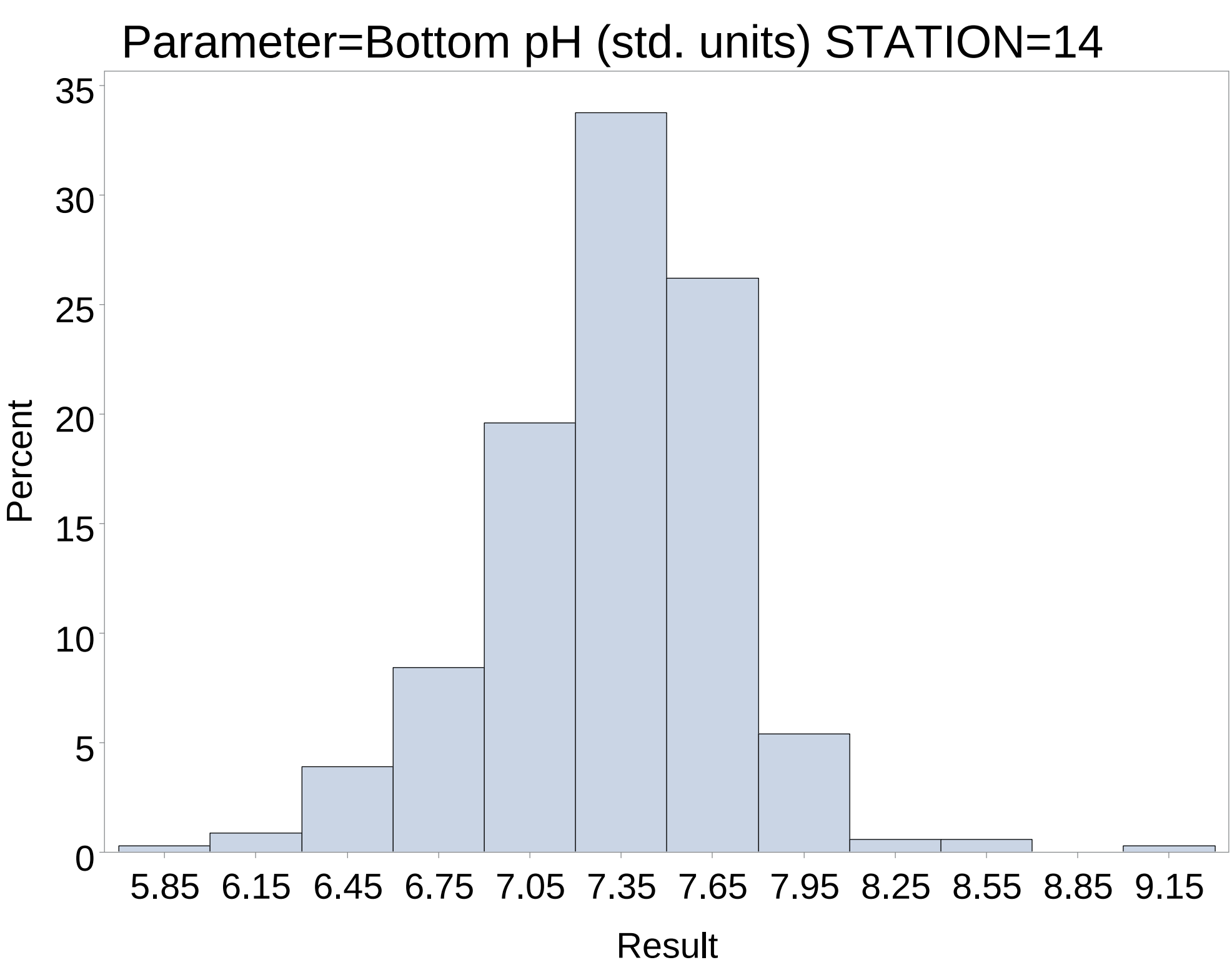
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	331.4467	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.1
99%	8.2
95%	7.8
90%	7.7
75% Q3	7.5
50% Median	7.3
25% Q1	7.0
10%	6.7
5%	6.5
1%	6.2
0% Min	5.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.8	70853	8.1	71009
6.0	70732	8.2	70835
6.1	70731	8.6	70813
6.2	70694	8.6	70814
6.3	70941	9.1	70841


Parameter=Bottom pH (std. units) STATION=14
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=15

Moments			
N	331	**Sum Weights**	331
Mean	7.26978852	**Sum Observations**	2406.3
Std Deviation	0.41987691	**Variance**	0.17629662
Skewness	-1.5210883	**Kurtosis**	7.3707149
Uncorrected SS	17551.47	**Corrected SS**	58.1778852
Coeff Variation	5.77564136	**Std Error Mean**	0.02307852

Basic Statistical Measures			
Location		**Variability**	
Mean	7.269789	**Std Deviation**	0.41988
Median	7.300000	**Variance**	0.17630
Mode	7.400000	**Range**	4.20000
		Interquartile Range	0.50000

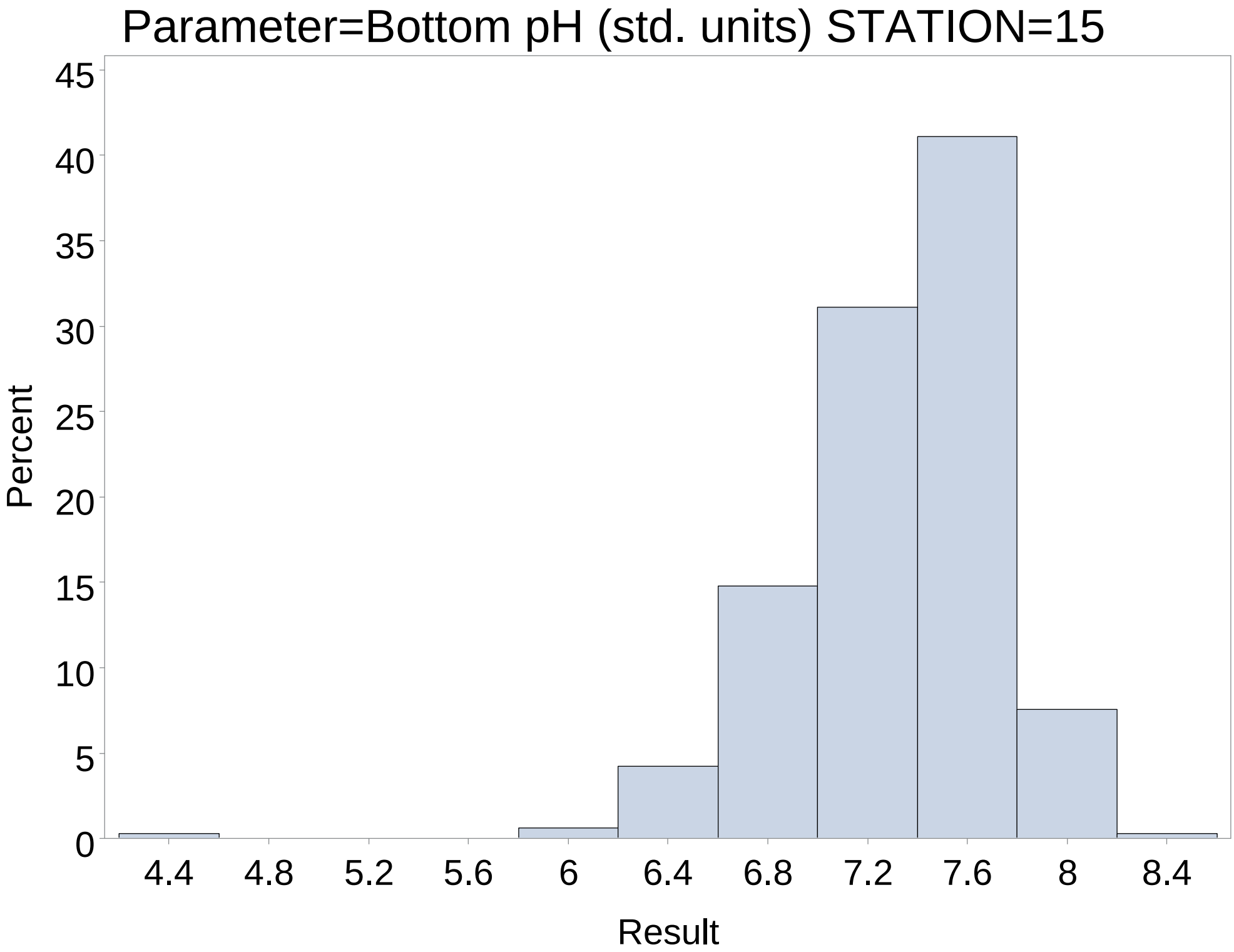
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	315.0023	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.0
95%	7.8
90%	7.7
75% Q3	7.5
50% Median	7.3
25% Q1	7.0
10%	6.8
5%	6.5
1%	6.2
0% Min	4.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.3	71262	8.0	71166
5.8	71184	8.0	71340
6.0	71064	8.1	71220
6.2	71025	8.1	71260
6.3	71111	8.5	71145


Parameter=Bottom pH (std. units) STATION=15
Percent
45
40
35
30
25
20
15
10
5
0
4.4
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=16

Moments			
N	331	**Sum Weights**	331
Mean	7.36706949	**Sum Observations**	2438.5
Std Deviation	0.45002039	**Variance**	0.20251836
Skewness	-0.6823811	**Kurtosis**	0.81560159
Uncorrected SS	18031.43	**Corrected SS**	66.8310574
Coeff Variation	6.10854011	**Std Error Mean**	0.02473536

Basic Statistical Measures			
Location		**Variability**	
Mean	7.367069	**Std Deviation**	0.45002
Median	7.400000	**Variance**	0.20252
Mode	7.400000	**Range**	3.10000
		Interquartile Range	0.60000

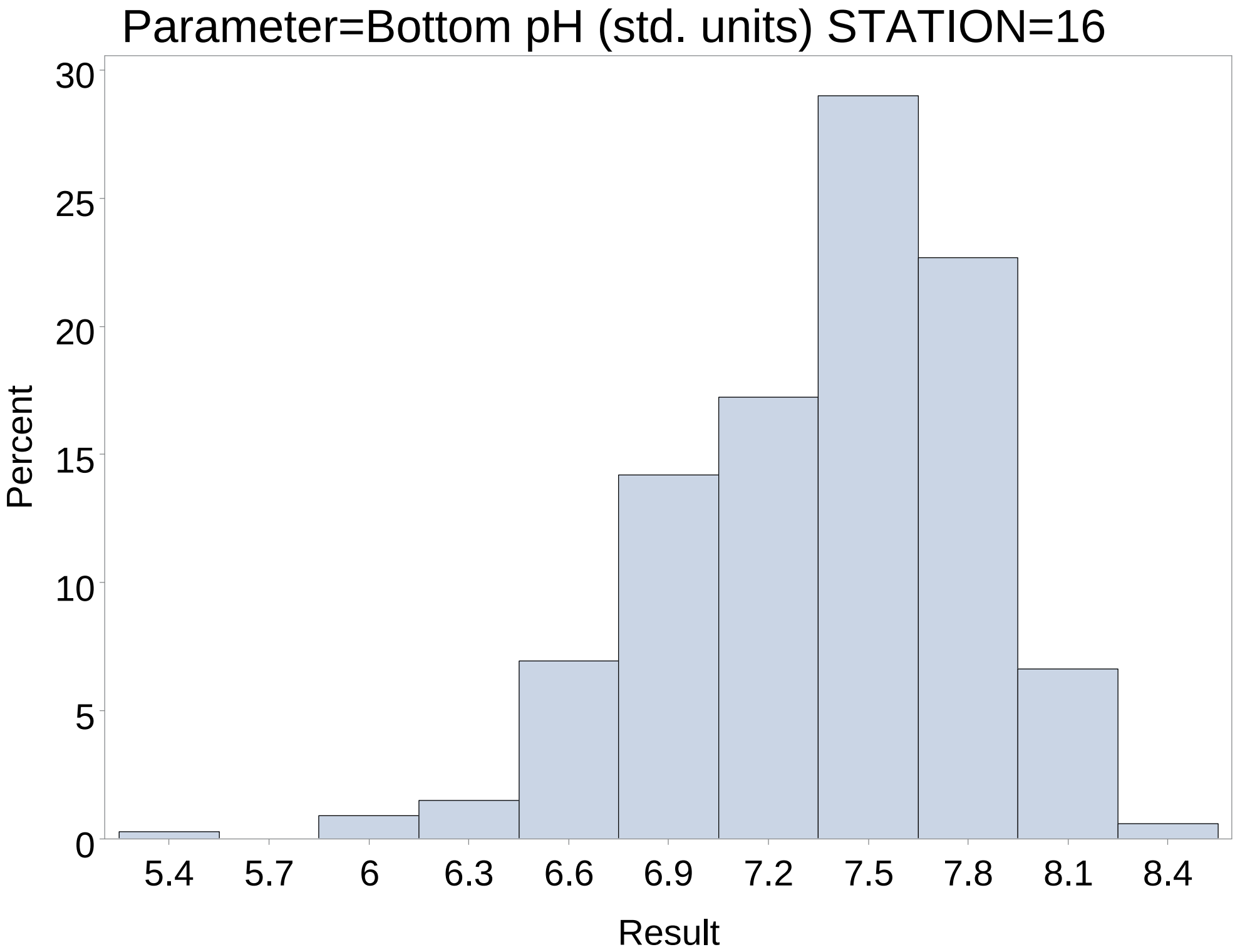
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	297.8356	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.2
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.1
0% Min	5.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.4	71383	8.1	71671
6.0	71396	8.2	71552
6.0	71357	8.2	71592
6.1	71406	8.4	71478
6.2	71443	8.5	71506


Parameter=Bottom pH (std. units) STATION=16
Percent
30
25
20
15
10
5
0
5.4
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=17

Moments			
N	331	**Sum Weights**	331
Mean	7.40785498	**Sum Observations**	2452
Std Deviation	0.45527074	**Variance**	0.20727145
Skewness	-0.5531113	**Kurtosis**	0.18834333
Uncorrected SS	18232.46	**Corrected SS**	68.399577
Coeff Variation	6.14578363	**Std Error Mean**	0.02502394

Basic Statistical Measures			
Location		**Variability**	
Mean	7.407855	**Std Deviation**	0.45527
Median	7.500000	**Variance**	0.20727
Mode	7.600000	**Range**	2.70000
		Interquartile Range	0.60000

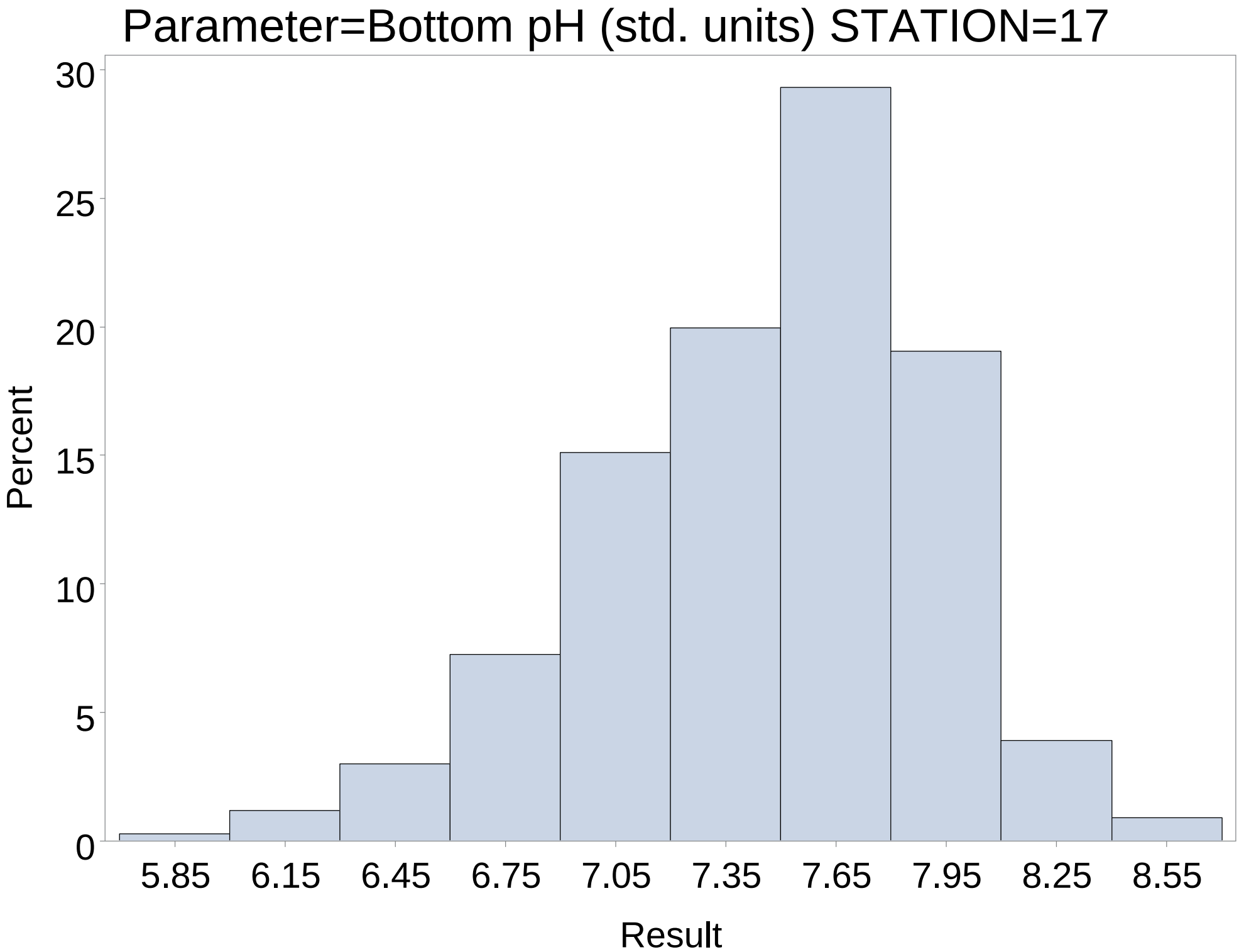
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	296.0307	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.3
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.5
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.2
0% Min	5.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.9	71714	8.3	71883
6.0	71727	8.3	71922
6.2	71737	8.4	71866
6.2	71726	8.5	71809
6.2	71688	8.6	71837


Parameter=Bottom pH (std. units) STATION=17
Percent
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	7.33556231	**Sum Observations**	2413.4
Std Deviation	0.51268638	**Variance**	0.26284732
Skewness	-0.7374964	**Kurtosis**	1.85551034
Uncorrected SS	17789.86	**Corrected SS**	86.213921
Coeff Variation	6.98905352	**Std Error Mean**	0.02826531

Basic Statistical Measures			
Location		**Variability**	
Mean	7.335562	**Std Deviation**	0.51269
Median	7.400000	**Variance**	0.26285
Mode	7.400000	**Range**	4.10000
		Interquartile Range	0.70000

Note: The mode displayed is the smallest of 2 modes with a count of 35.

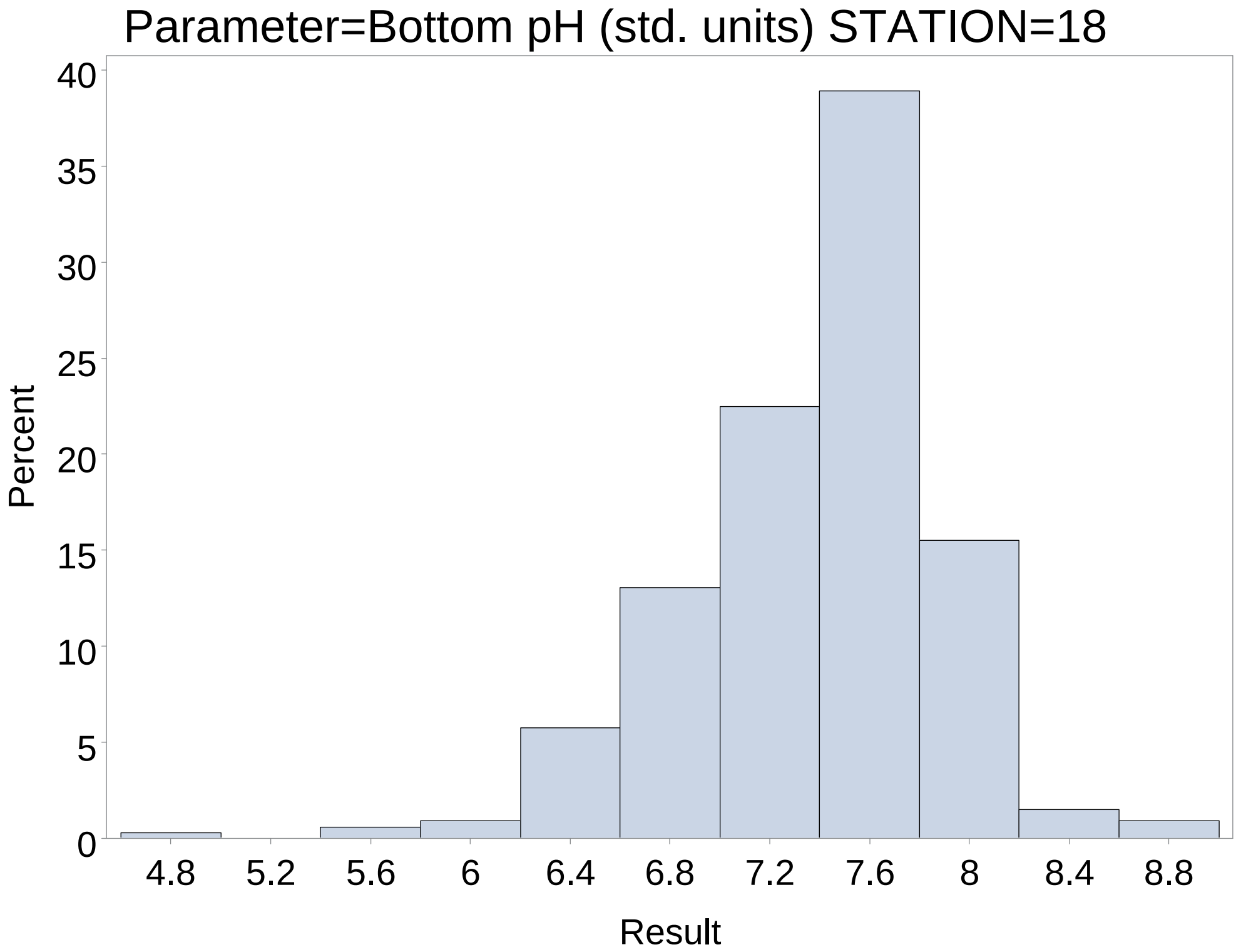
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	259.5252	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.9
99%	8.3
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.4
25% Q1	7.0
10%	6.6
5%	6.4
1%	5.9
0% Min	4.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.8	72157	8.3	72028
5.7	72177	8.3	72195
5.7	72057	8.6	72138
5.9	72019	8.7	72179
6.1	72067	8.9	72166


Parameter=Bottom pH (std. units) STATION=18
Percent
0
5
10
15
20
25
30
35
40
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
8.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=19

Moments			
N	330	**Sum Weights**	330
Mean	7.47121212	**Sum Observations**	2465.5
Std Deviation	0.48124874	**Variance**	0.23160035
Skewness	-0.8261948	**Kurtosis**	0.8876858
Uncorrected SS	18496.47	**Corrected SS**	76.1965152
Coeff Variation	6.44137434	**Std Error Mean**	0.02649187

Basic Statistical Measures			
Location		**Variability**	
Mean	7.471212	**Std Deviation**	0.48125
Median	7.600000	**Variance**	0.23160
Mode	7.600000	**Range**	3.10000
		Interquartile Range	0.60000

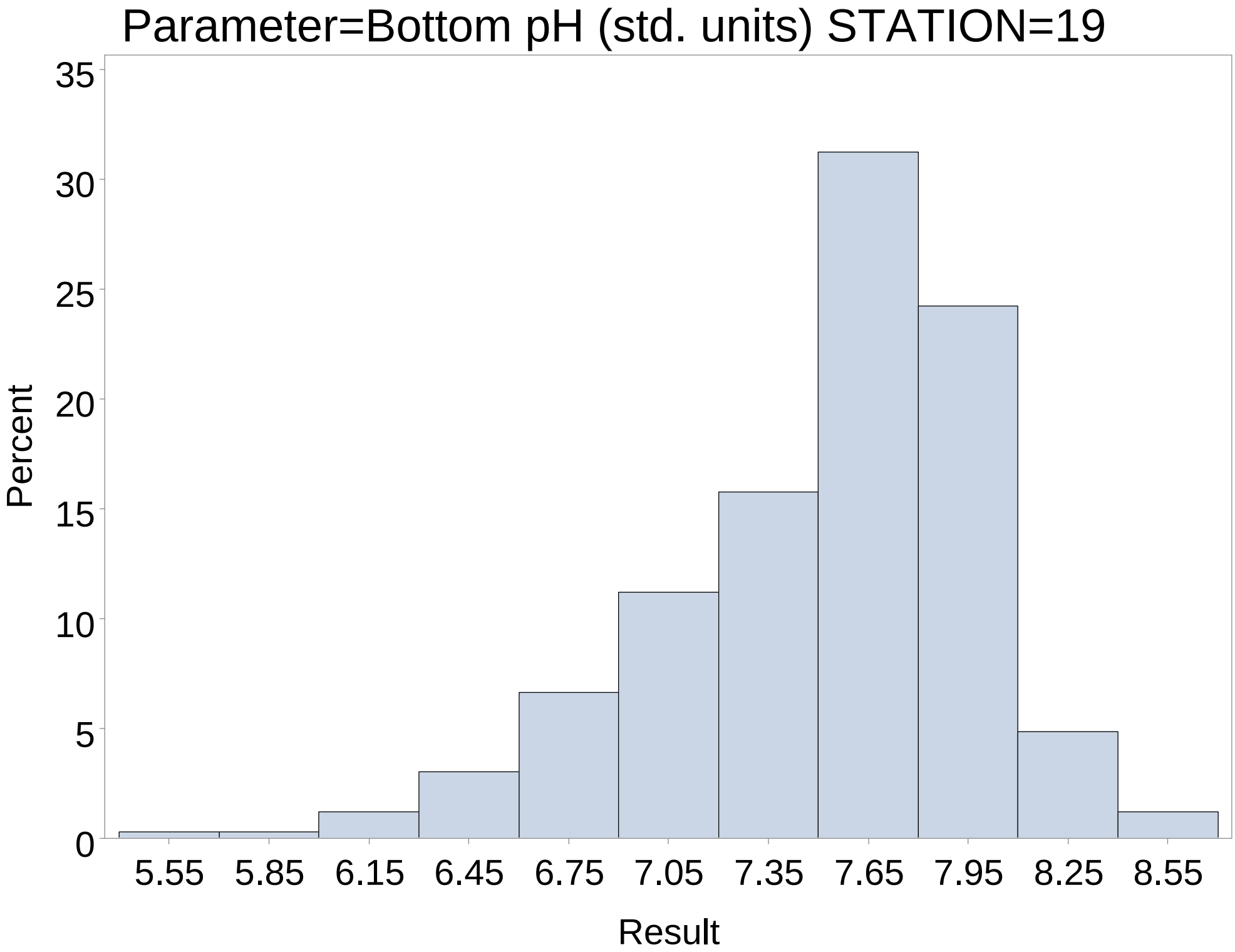
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	282.019	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.4
95%	8.1
90%	8.0
75% Q3	7.8
50% Median	7.6
25% Q1	7.2
10%	6.8
5%	6.6
1%	6.2
0% Min	5.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.5	72343	8.3	72575
5.8	72387	8.4	72497
6.1	72434	8.4	72582
6.2	72397	8.5	72527
6.2	72386	8.6	72469


Parameter=Bottom pH (std. units) STATION=19
Percent
35
30
25
20
15
10
5
0
5.55
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	7.1	**Sum Observations**	7.1
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	50.41	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	7.100000	**Std Deviation**	.
Median	7.100000	**Variance**	.
Mode	7.100000	**Range**	0
		Interquartile Range	0

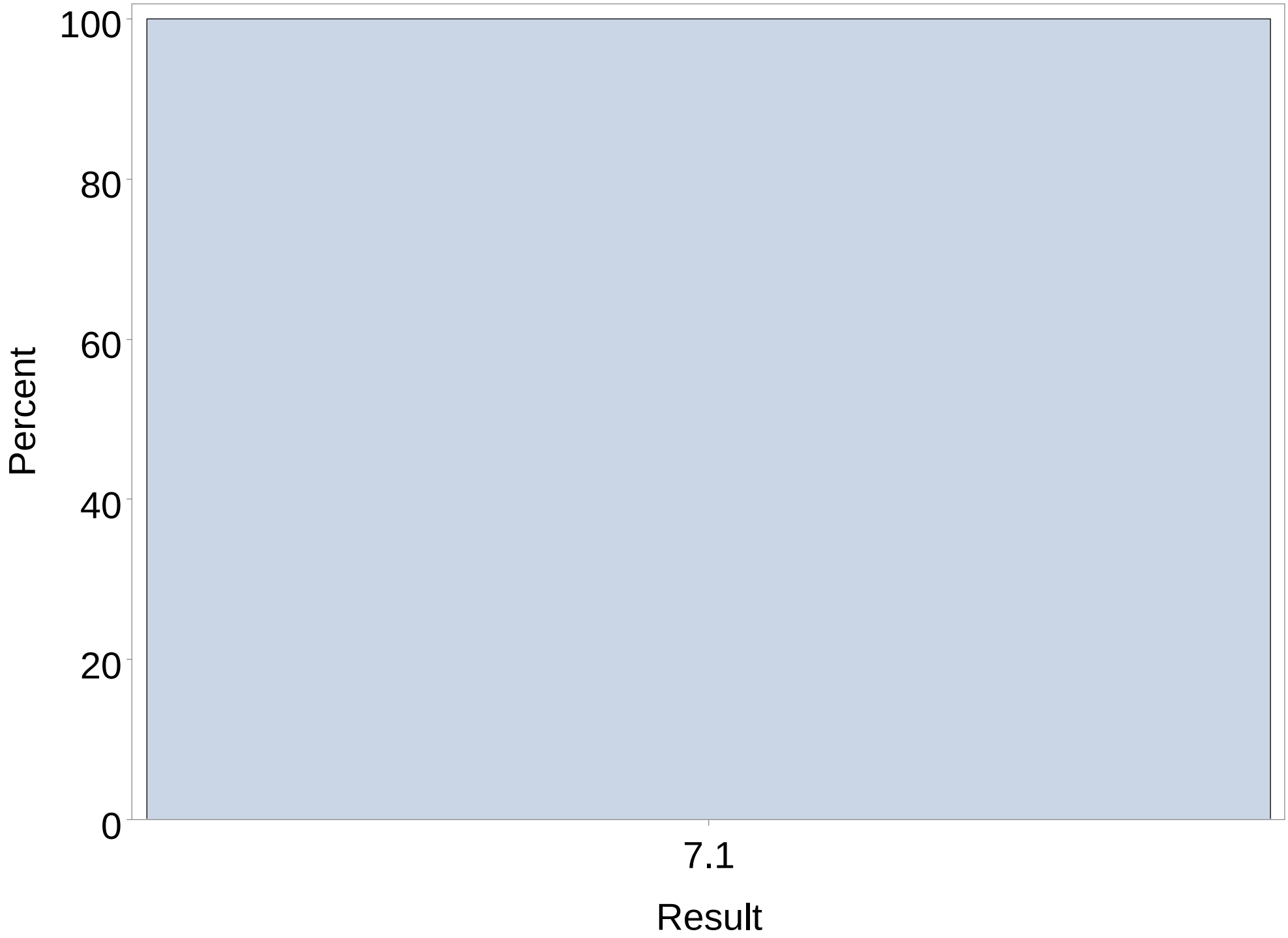
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.1
99%	7.1
95%	7.1
90%	7.1
75% Q3	7.1
50% Median	7.1
25% Q1	7.1
10%	7.1
5%	7.1
1%	7.1
0% Min	7.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom pH (std. units) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.1	72673	7.1	72673


Parameter=Bottom pH (std. units) STATION=22
100
80
60
40
20
0
Percent
7.1
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=1

Moments			
N	334	**Sum Weights**	334
Mean	7.3011976	**Sum Observations**	2438.6
Std Deviation	0.54054672	**Variance**	0.29219075
Skewness	0.01875326	**Kurtosis**	0.75432168
Uncorrected SS	17902	**Corrected SS**	97.299521
Coeff Variation	7.40353496	**Std Error Mean**	0.0295774

Basic Statistical Measures			
Location		**Variability**	
Mean	7.301198	**Std Deviation**	0.54055
Median	7.300000	**Variance**	0.29219
Mode	7.400000	**Range**	3.30000
		Interquartile Range	0.60000

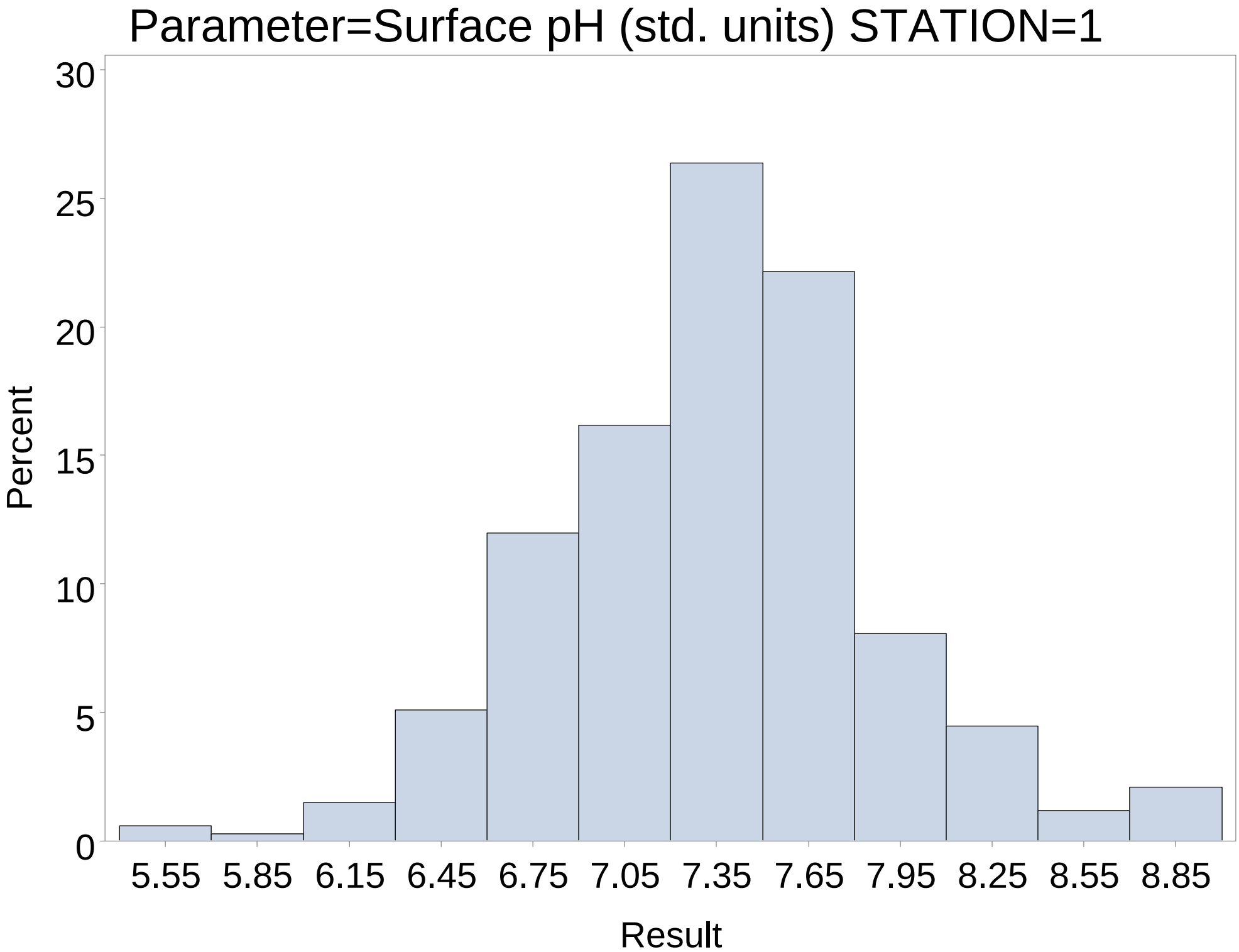
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	246.8506	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.9
99%	8.7
95%	8.2
90%	7.9
75% Q3	7.6
50% Median	7.3
25% Q1	7.0
10%	6.6
5%	6.4
1%	6.0
0% Min	5.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.6	72902	8.7	72781
5.6	72900	8.7	72783
5.8	72993	8.8	72777
6.0	72840	8.8	72891
6.0	72692	8.9	72851


Parameter=Surface pH (std. units) STATION=1
Percent
30
25
20
15
10
5
0
5.55
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=2

Moments			
N	332	**Sum Weights**	332
Mean	7.43313253	**Sum Observations**	2467.8
Std Deviation	0.39450739	**Variance**	0.15563608
Skewness	-0.5070383	**Kurtosis**	0.5987549
Uncorrected SS	18395	**Corrected SS**	51.5155422
Coeff Variation	5.30741765	**Std Error Mean**	0.02165141

Basic Statistical Measures			
Location		**Variability**	
Mean	7.433133	**Std Deviation**	0.39451
Median	7.500000	**Variance**	0.15564
Mode	7.500000	**Range**	2.40000
		Interquartile Range	0.50000

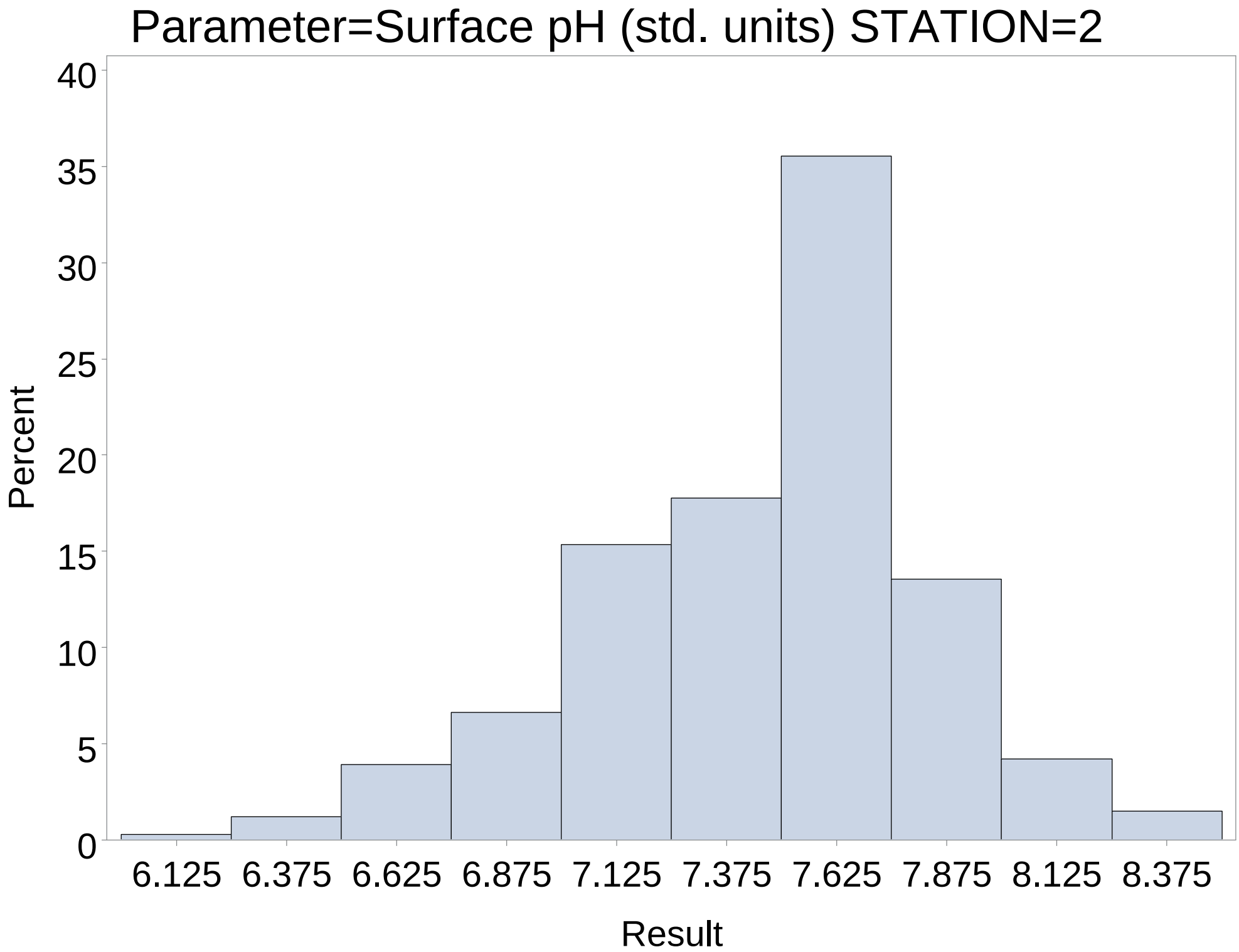
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	343.3095	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.4
99%	8.4
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.5
25% Q1	7.2
10%	6.9
5%	6.7
1%	6.3
0% Min	6.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.0	73172	8.4	73031
6.3	73171	8.4	73131
6.3	73052	8.4	73132
6.3	73041	8.4	73133
6.4	73232	8.4	73223


Parameter=Surface pH (std. units) STATION=2
Percent
40
35
30
25
20
15
10
5
0
6.125
6.375
6.625
6.875
7.125
7.375
7.625
7.875
8.125
8.375
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=3

Moments			
N	328	**Sum Weights**	328
Mean	7.43170732	**Sum Observations**	2437.6
Std Deviation	0.47849868	**Variance**	0.22896099
Skewness	-1.0533996	**Kurtosis**	2.62725715
Uncorrected SS	18190.4	**Corrected SS**	74.8702439
Coeff Variation	6.43861045	**Std Error Mean**	0.02642067

Basic Statistical Measures			
Location		**Variability**	
Mean	7.431707	**Std Deviation**	0.47850
Median	7.500000	**Variance**	0.22896
Mode	7.700000	**Range**	3.50000
		Interquartile Range	0.65000

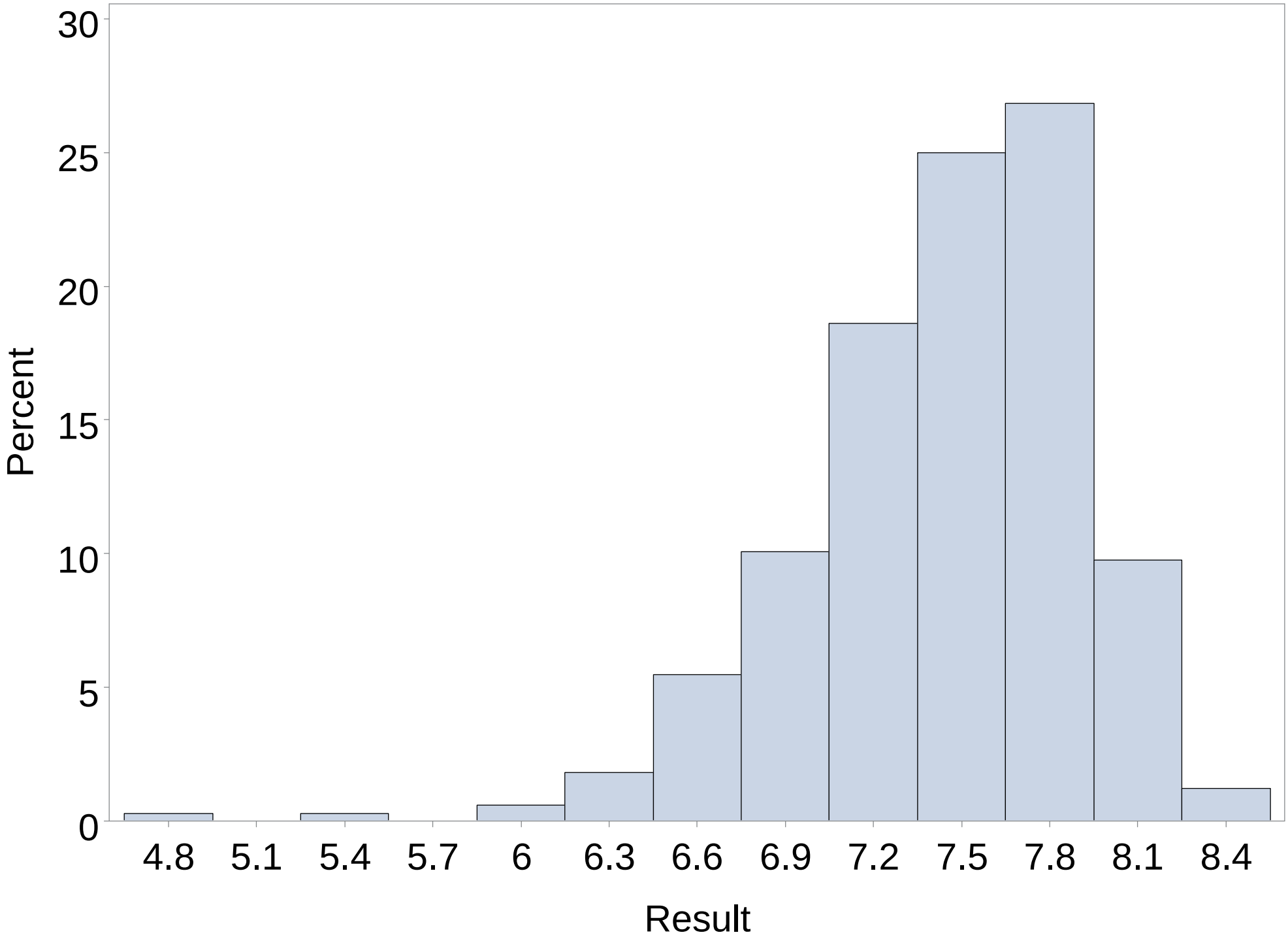
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	281.2838	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.40
99%	8.30
95%	8.10
90%	8.00
75% Q3	7.80
50% Median	7.50
25% Q1	7.15
10%	6.80
5%	6.60
1%	6.10
0% Min	4.90

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.9	73491	8.2	73580
5.5	73358	8.3	73540
5.9	73583	8.3	73554
6.1	73505	8.4	73464
6.2	73382	8.4	73465


Parameter=Surface pH (std. units) STATION=3
Percent
30
25
20
15
10
5
0
4.8
5.1
5.4
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=4

Moments			
N	332	**Sum Weights**	332
Mean	7.36777108	**Sum Observations**	2446.1
Std Deviation	0.43141428	**Variance**	0.18611828
Skewness	0.26522515	**Kurtosis**	3.45393682
Uncorrected SS	18083.91	**Corrected SS**	61.6051506
Coeff Variation	5.85542457	**Std Error Mean**	0.02367693

Basic Statistical Measures			
Location		**Variability**	
Mean	7.367771	**Std Deviation**	0.43141
Median	7.400000	**Variance**	0.18612
Mode	7.500000	**Range**	3.80000
		Interquartile Range	0.50000

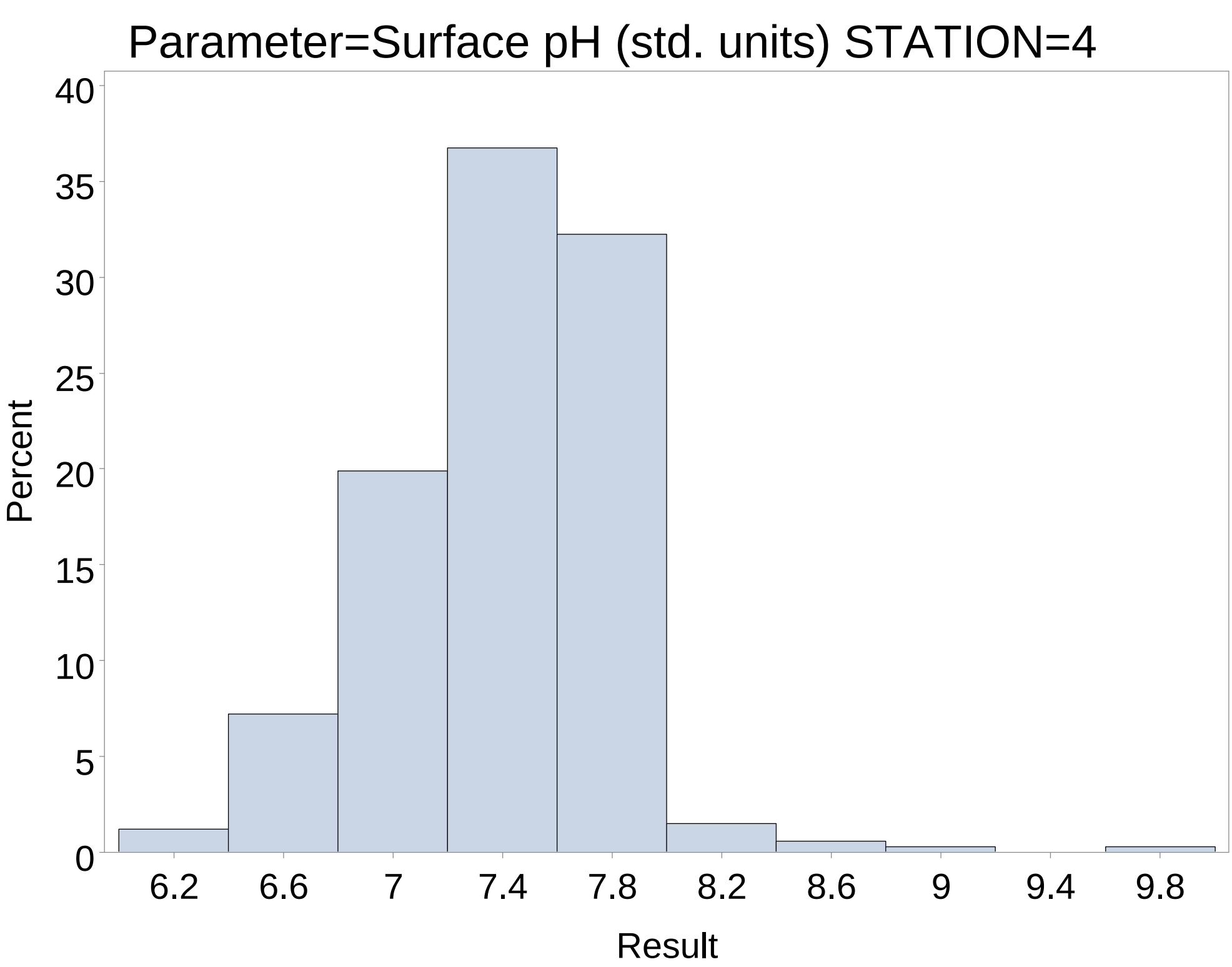
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	311.1793	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.8
99%	8.6
95%	7.9
90%	7.8
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.3
0% Min	6.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.0	73712	8.2	73988
6.2	73833	8.6	73793
6.3	73711	8.6	73794
6.3	73710	9.1	73840
6.4	73832	9.8	73754


Parameter=Surface pH (std. units) STATION=4
Percent
40
35
30
25
20
15
10
5
0
6.2
6.6
7
7.4
7.8
8.2
8.6
9
9.4
9.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=5

Moments			
N	334	**Sum Weights**	334
Mean	7.34610778	**Sum Observations**	2453.6
Std Deviation	0.39092537	**Variance**	0.15282264
Skewness	-0.4536024	**Kurtosis**	1.21056794
Uncorrected SS	18075.3	**Corrected SS**	50.8899401
Coeff Variation	5.32153052	**Std Error Mean**	0.02139048

Basic Statistical Measures			
Location		**Variability**	
Mean	7.346108	**Std Deviation**	0.39093
Median	7.400000	**Variance**	0.15282
Mode	7.500000	**Range**	2.80000
		Interquartile Range	0.50000

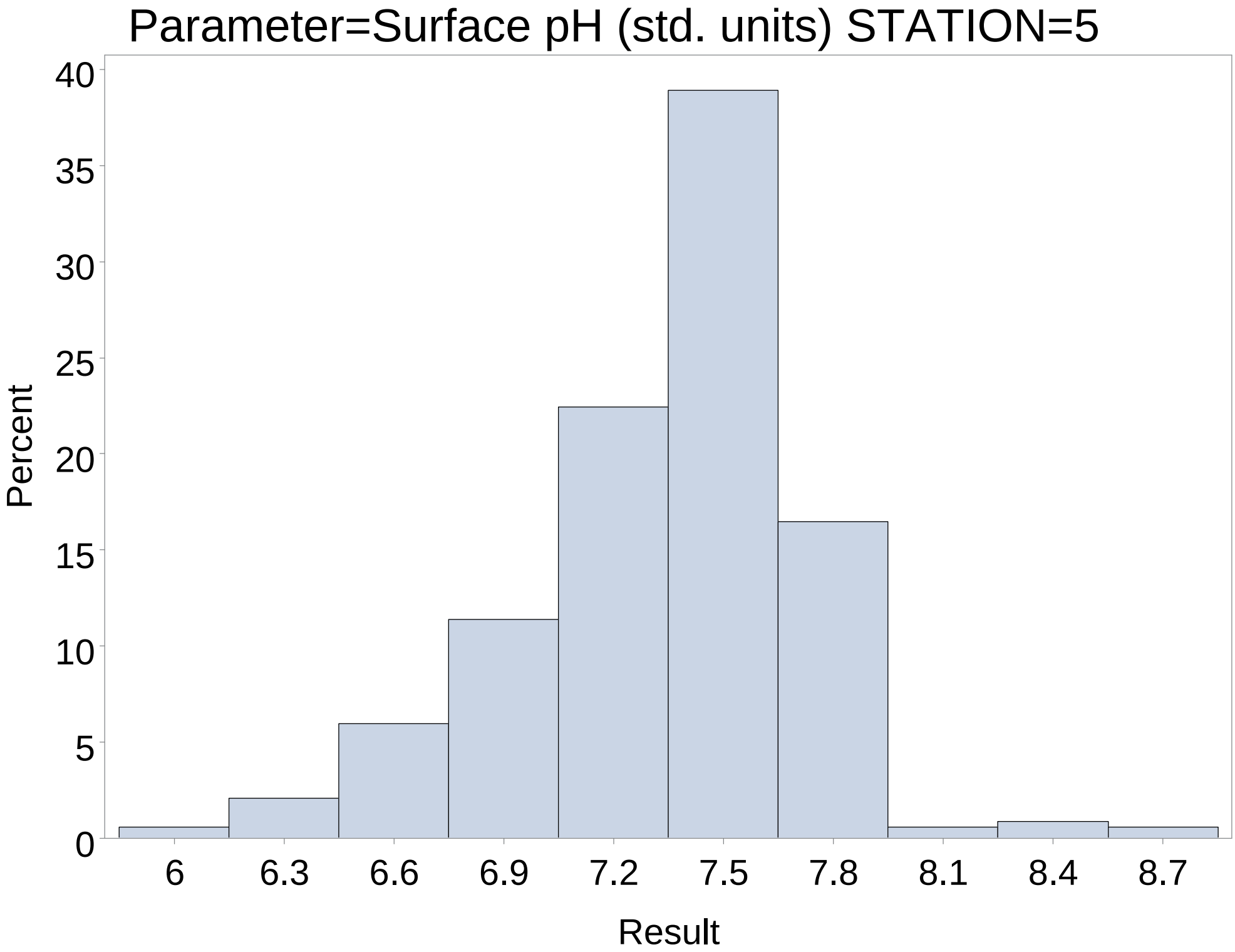
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	343.4288	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.7
99%	8.3
95%	7.9
90%	7.8
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.3
0% Min	5.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.9	74166	8.3	74207
6.1	74045	8.3	74322
6.3	74165	8.5	74126
6.3	74044	8.6	74125
6.4	74254	8.7	74147


Parameter=Surface pH (std. units) STATION=5
Percent
0
5
10
15
20
25
30
35
40
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	7.34444444	**Sum Observations**	2445.7
Std Deviation	0.37658189	**Variance**	0.14181392
Skewness	-0.6068413	**Kurtosis**	1.25532664
Uncorrected SS	18009.39	**Corrected SS**	47.0822222
Coeff Variation	5.12743879	**Std Error Mean**	0.02063656

Basic Statistical Measures			
Location		**Variability**	
Mean	7.344444	**Std Deviation**	0.37658
Median	7.400000	**Variance**	0.14181
Mode	7.500000	**Range**	2.80000
		Interquartile Range	0.50000

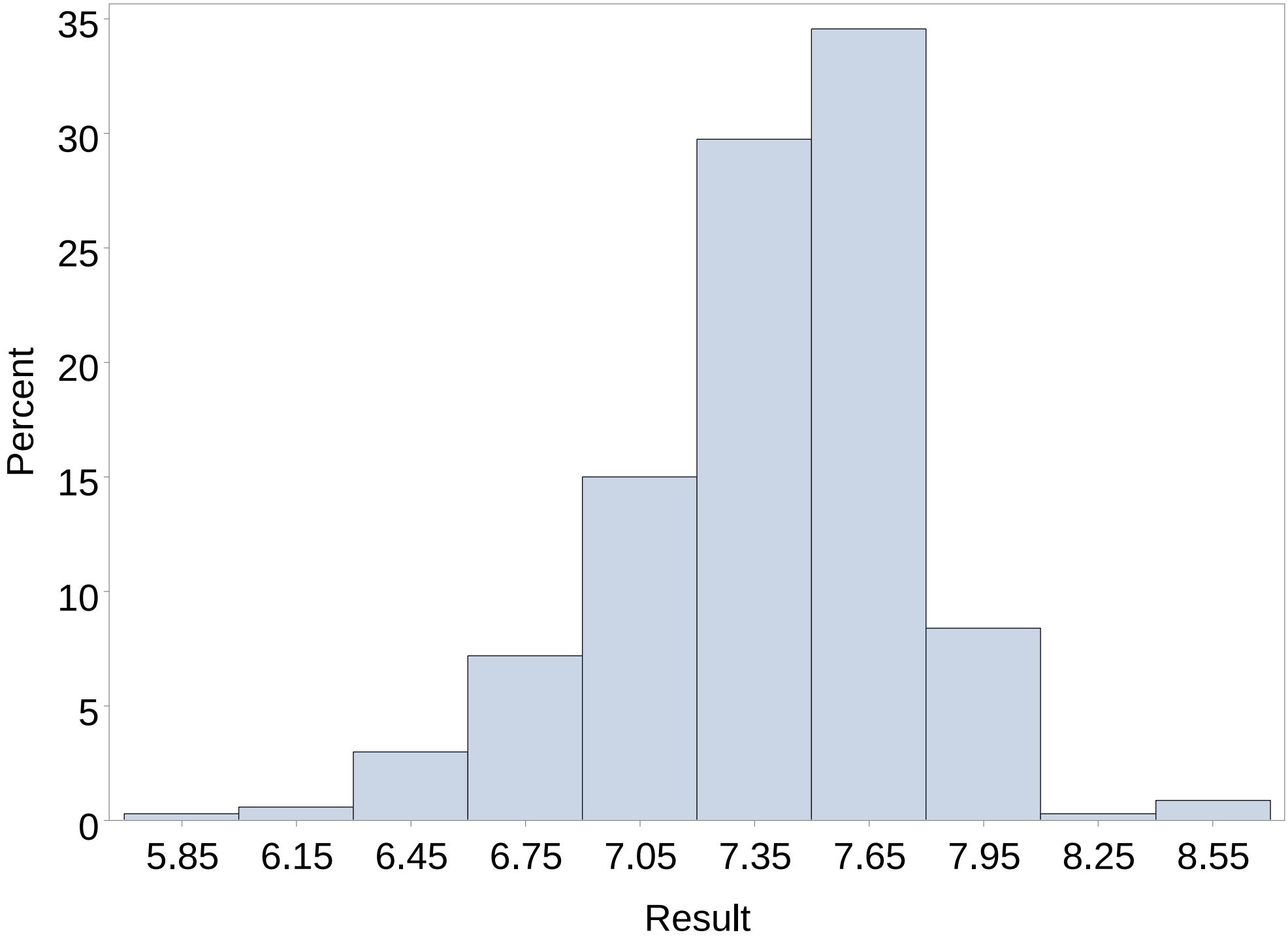
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	355.8948	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.2
95%	7.9
90%	7.7
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.4
0% Min	5.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.8	74499	8.0	74535
6.2	74425	8.2	74408
6.2	74378	8.4	74481
6.4	74627	8.4	74655
6.4	74388	8.6	74460


Parameter=Surface pH (std. units) STATION=6
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	7.38738739	**Sum Observations**	2460
Std Deviation	0.38231629	**Variance**	0.14616574
Skewness	-0.5175992	**Kurtosis**	0.69416002
Uncorrected SS	18221.5	**Corrected SS**	48.527027
Coeff Variation	5.17525707	**Std Error Mean**	0.0209508

Basic Statistical Measures			
Location		**Variability**	
Mean	7.387387	**Std Deviation**	0.38232
Median	7.400000	**Variance**	0.14617
Mode	7.600000	**Range**	2.60000
		Interquartile Range	0.50000

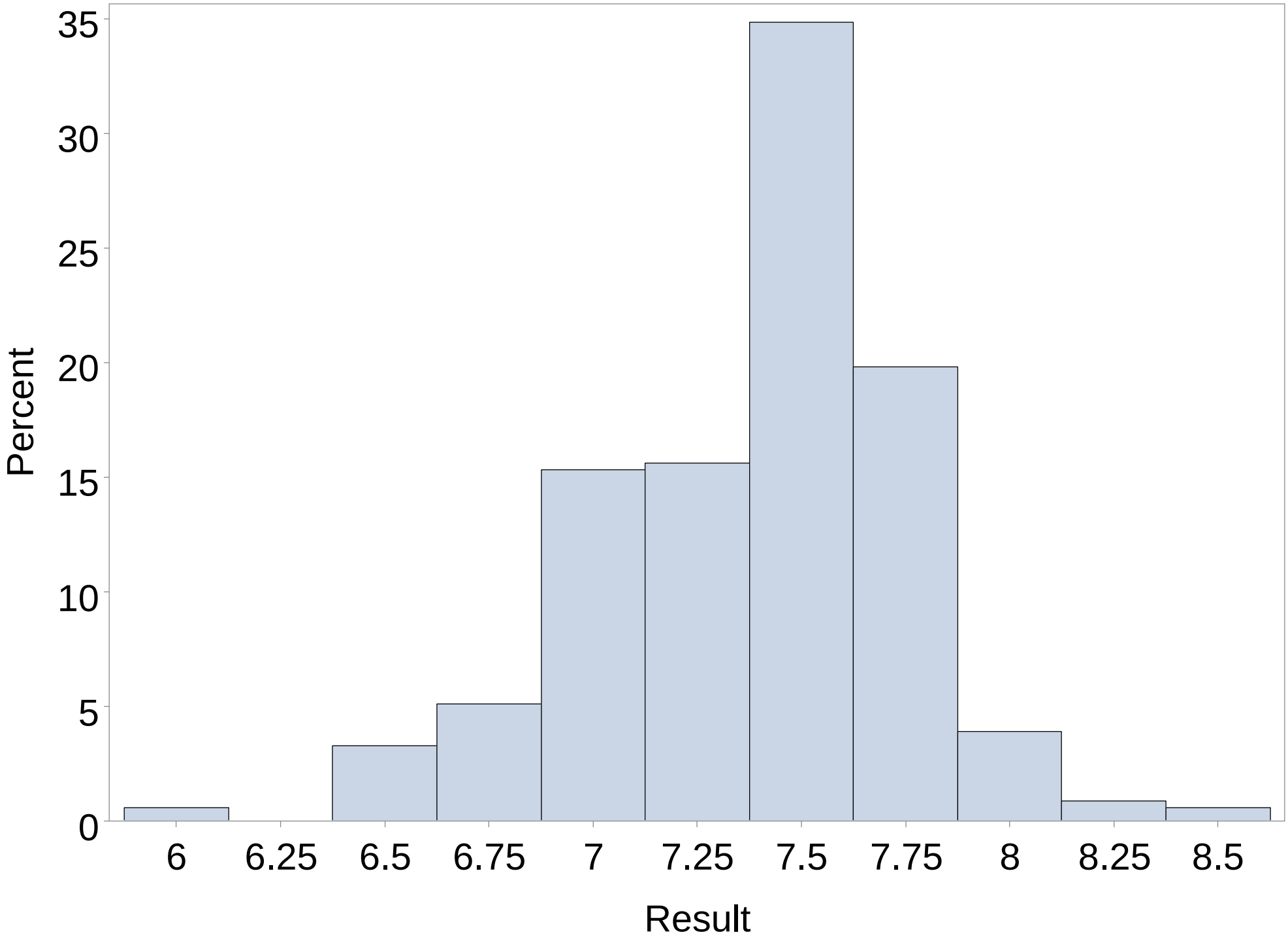
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	352.6064	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.2
95%	7.9
90%	7.8
75% Q3	7.7
50% Median	7.4
25% Q1	7.2
10%	6.9
5%	6.7
1%	6.4
0% Min	6.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.0	74832	8.2	74741
6.1	74711	8.2	74868
6.4	74721	8.3	74908
6.4	74710	8.4	74988
6.4	74698	8.6	74793


Parameter=Surface pH (std. units) STATION=7
Percent
35
30
25
20
15
10
5
0
6
6.25
6.5
6.75
7
7.25
7.5
7.75
8
8.25
8.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=8

Moments			
N	324	**Sum Weights**	324
Mean	7.49753086	**Sum Observations**	2429.2
Std Deviation	0.48083398	**Variance**	0.23120131
Skewness	-0.753258	**Kurtosis**	0.7539133
Uncorrected SS	18287.68	**Corrected SS**	74.6780247
Coeff Variation	6.41323106	**Std Error Mean**	0.026713

Basic Statistical Measures			
Location		**Variability**	
Mean	7.497531	**Std Deviation**	0.48083
Median	7.600000	**Variance**	0.23120
Mode	7.700000	**Range**	2.90000
		Interquartile Range	0.60000

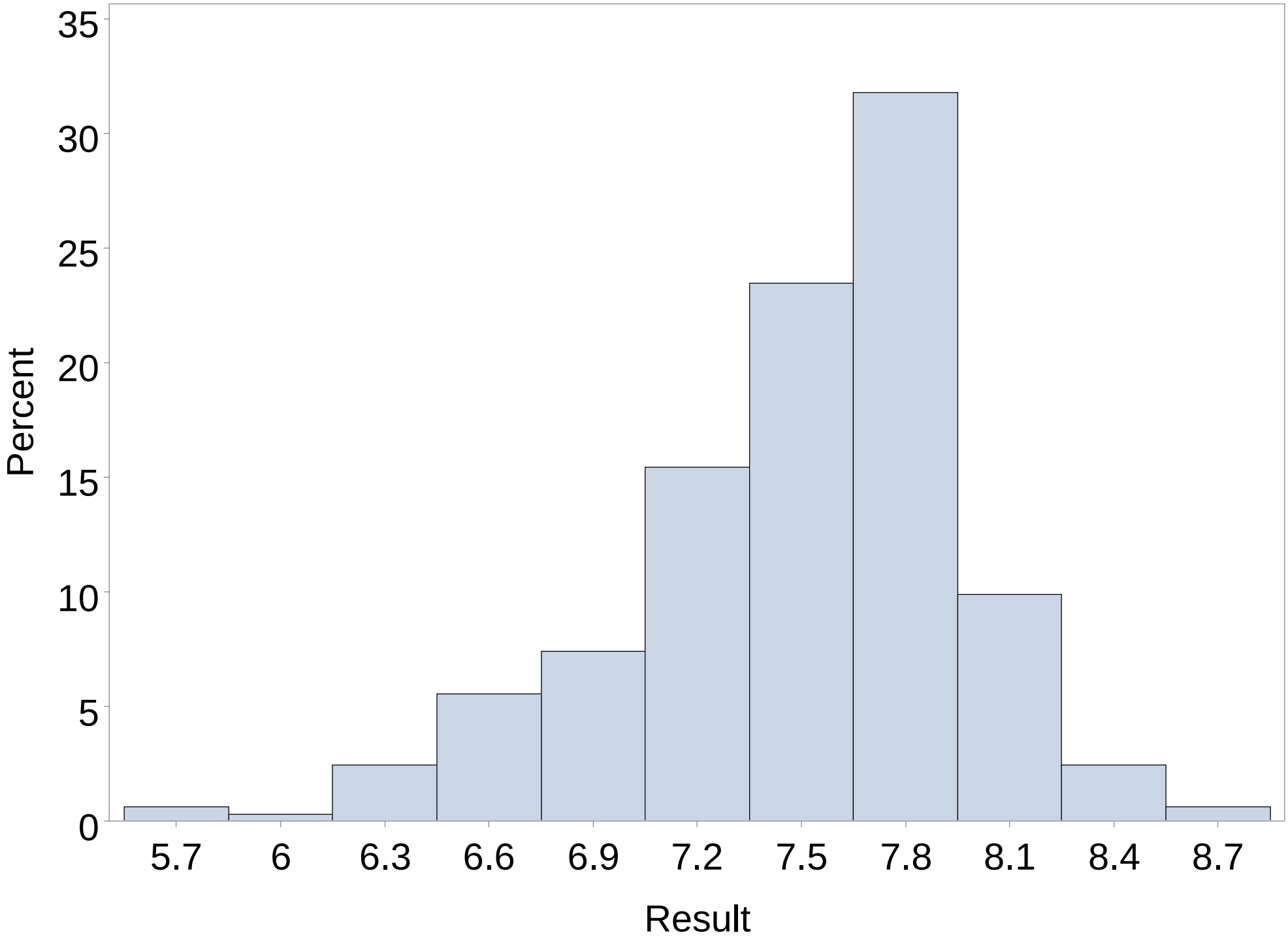
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	280.6698	**Pr > |t|**	<.0001
Sign	**M**	162	**Pr >= |M|**	<.0001
Signed Rank	**S**	26325	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.7
99%	8.4
95%	8.1
90%	8.0
75% Q3	7.8
50% Median	7.6
25% Q1	7.2
10%	6.8
5%	6.6
1%	6.2
0% Min	5.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.8	75162	8.4	75141
5.8	75044	8.4	75235
6.0	75005	8.5	75123
6.2	75091	8.7	75151
6.2	75054	8.7	75164


Parameter=Surface pH (std. units) STATION=8
Percent
0
5
10
15
20
25
30
35
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=9

Moments			
N	331	**Sum Weights**	331
Mean	7.50966767	**Sum Observations**	2485.7
Std Deviation	0.46413511	**Variance**	0.2154214
Skewness	-0.5222077	**Kurtosis**	0.84933246
Uncorrected SS	18737.87	**Corrected SS**	71.0890634
Coeff Variation	6.18050138	**Std Error Mean**	0.02551117

Basic Statistical Measures			
Location		**Variability**	
Mean	7.509668	**Std Deviation**	0.46414
Median	7.600000	**Variance**	0.21542
Mode	7.700000	**Range**	3.10000
		Interquartile Range	0.60000

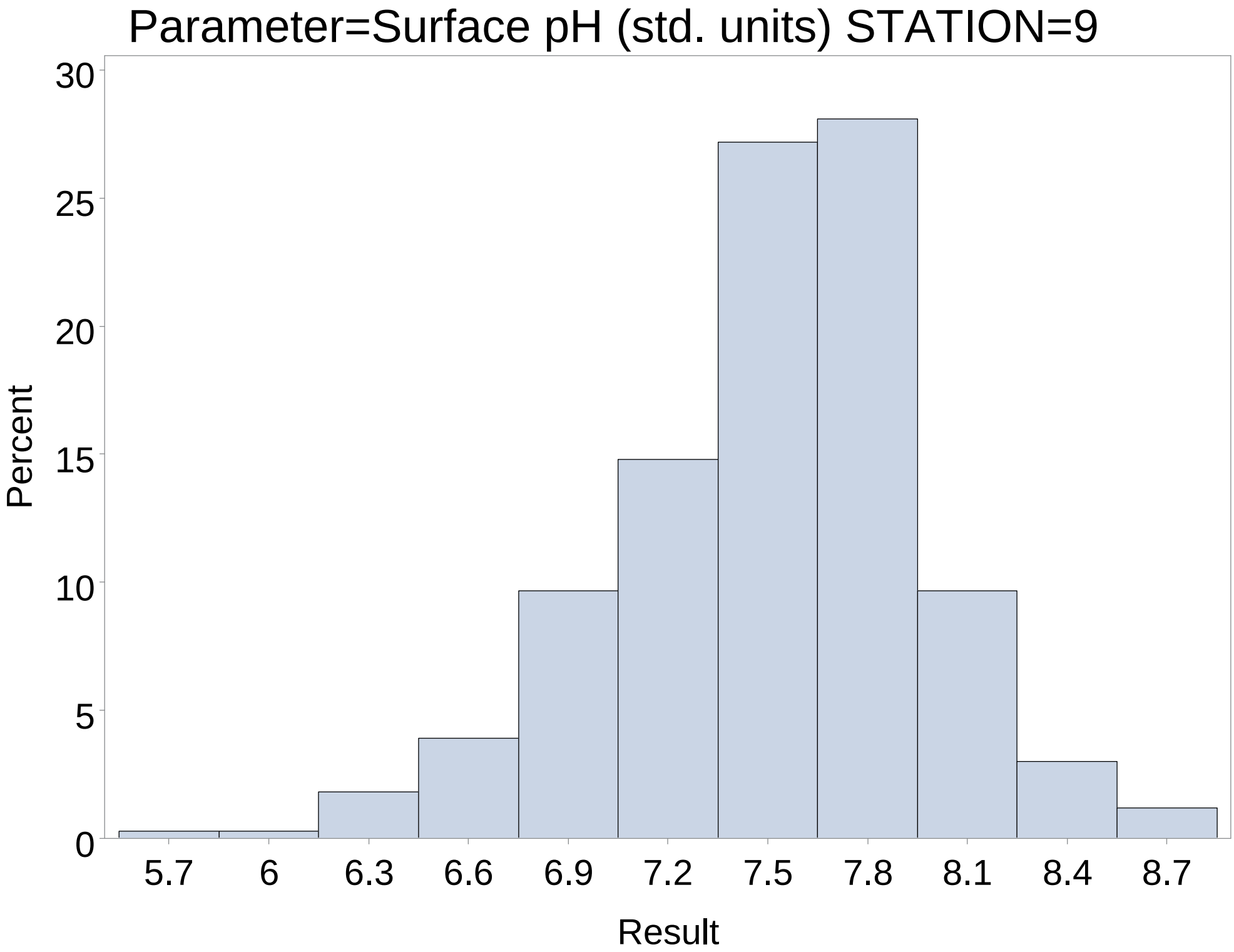
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	294.3678	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.7
99%	8.6
95%	8.2
90%	8.0
75% Q3	7.8
50% Median	7.6
25% Q1	7.2
10%	6.9
5%	6.7
1%	6.4
0% Min	5.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.6	75347	8.5	75490
6.0	75368	8.6	75353
6.3	75378	8.6	75449
6.4	75640	8.6	75563
6.4	75367	8.7	75477


Parameter=Surface pH (std. units) STATION=9
Percent
30
25
20
15
10
5
0
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=10

Moments			
N	327	**Sum Weights**	327
Mean	7.41620795	**Sum Observations**	2425.1
Std Deviation	0.45410229	**Variance**	0.20620889
Skewness	-0.7572563	**Kurtosis**	1.62875556
Uncorrected SS	18052.27	**Corrected SS**	67.2240979
Coeff Variation	6.12310621	**Std Error Mean**	0.02511191

Basic Statistical Measures			
Location		**Variability**	
Mean	7.416208	**Std Deviation**	0.45410
Median	7.500000	**Variance**	0.20621
Mode	7.500000	**Range**	3.40000
		Interquartile Range	0.60000

Note: The mode displayed is the smallest of 2 modes with a count of 34.

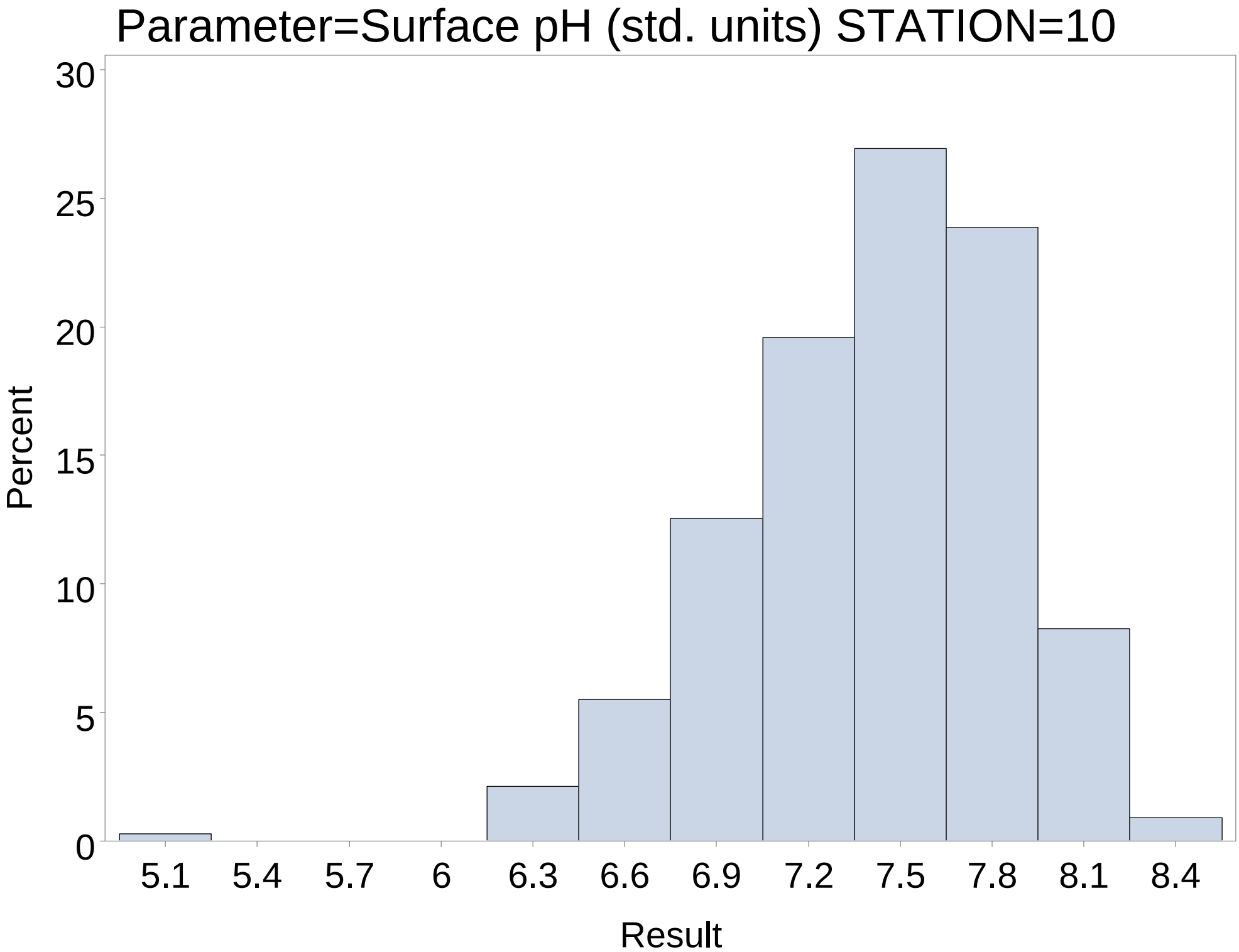
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	295.3263	**Pr > |t|**	<.0001
Sign	**M**	163.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	26814	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.2
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.5
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.3
0% Min	5.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.1	75885	8.2	75717
6.2	75822	8.2	75824
6.2	75747	8.5	75753
6.3	75874	8.5	75781
6.3	75700	8.5	75782


Parameter=Surface pH (std. units) STATION=10
Percent
30
25
20
15
10
5
0
5.1
5.4
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=11

Moments			
N	331	**Sum Weights**	331
Mean	7.4163142	**Sum Observations**	2454.8
Std Deviation	0.4119867	**Variance**	0.16973304
Skewness	-0.3958196	**Kurtosis**	-0.0701137
Uncorrected SS	18261.58	**Corrected SS**	56.0119033
Coeff Variation	5.55514084	**Std Error Mean**	0.02264484

Basic Statistical Measures			
Location		**Variability**	
Mean	7.416314	**Std Deviation**	0.41199
Median	7.500000	**Variance**	0.16973
Mode	7.700000	**Range**	2.40000
		Interquartile Range	0.50000

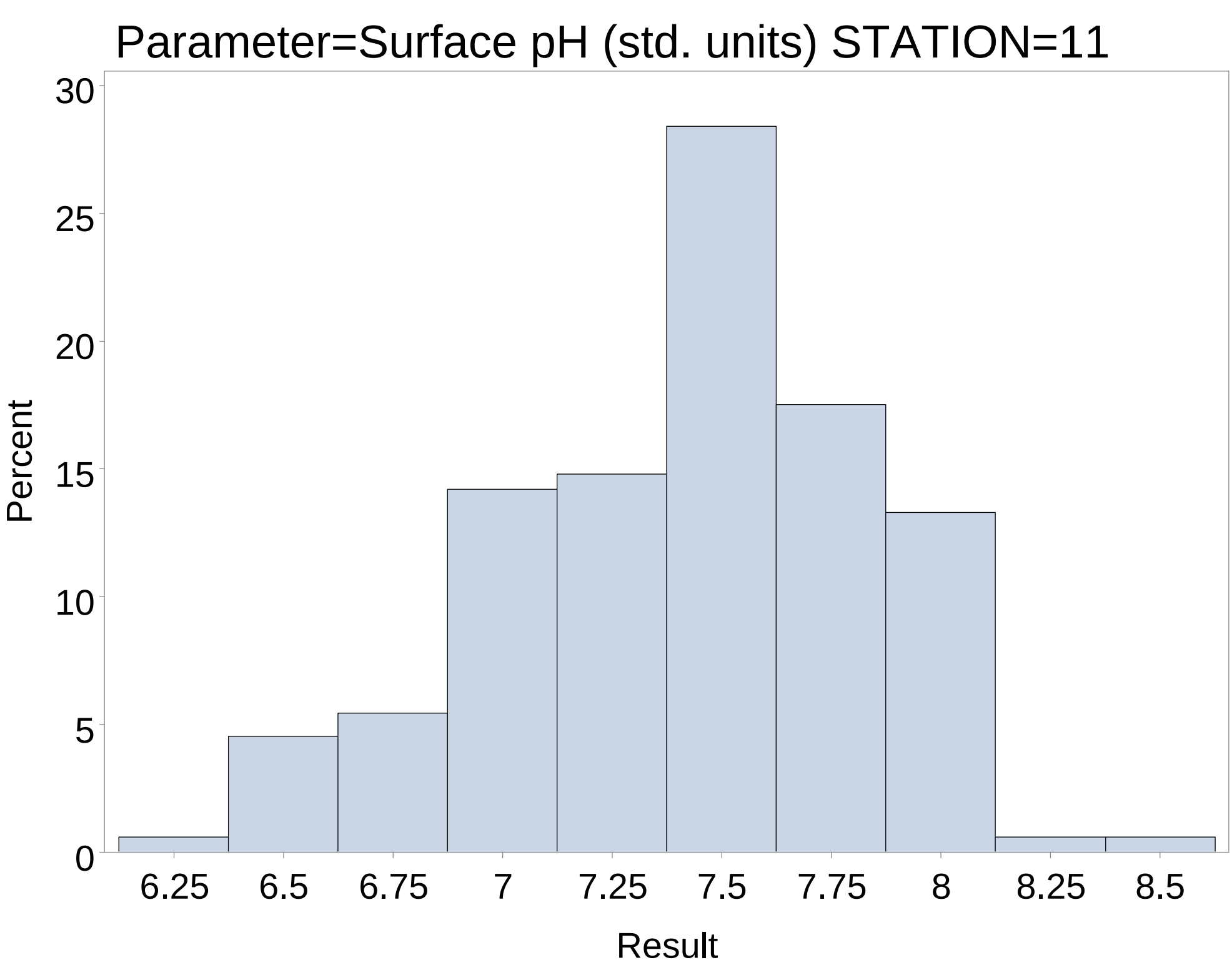
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	327.5057	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.2
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.5
25% Q1	7.2
10%	6.8
5%	6.6
1%	6.4
0% Min	6.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.2	76147	8.1	76216
6.2	76026	8.2	76149
6.4	76025	8.3	76157
6.4	76024	8.5	76107
6.4	75999	8.6	76106


Parameter=Surface pH (std. units) STATION=11
Percent
30
25
20
15
10
5
0
6.25
6.5
6.75
7
7.25
7.5
7.75
8
8.25
8.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=12

Moments			
N	331	**Sum Weights**	331
Mean	7.34108761	**Sum Observations**	2429.9
Std Deviation	0.42782469	**Variance**	0.18303397
Skewness	-1.4934086	**Kurtosis**	7.3216991
Uncorrected SS	17898.51	**Corrected SS**	60.4012085
Coeff Variation	5.8278107	**Std Error Mean**	0.02351537

Basic Statistical Measures			
Location		**Variability**	
Mean	7.341088	**Std Deviation**	0.42782
Median	7.400000	**Variance**	0.18303
Mode	7.500000	**Range**	4.20000
		Interquartile Range	0.50000

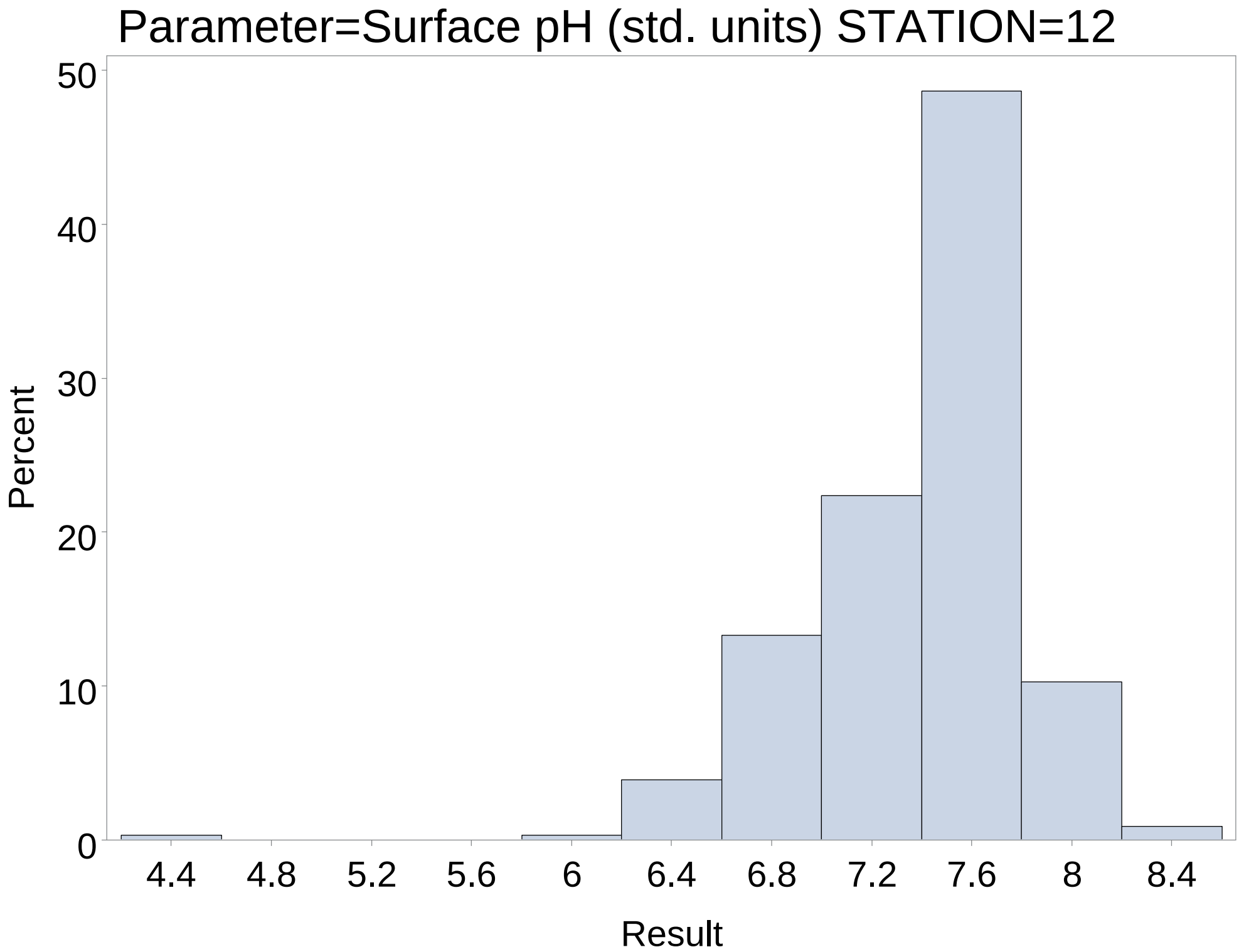
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	312.1825	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.5
99%	8.1
95%	7.9
90%	7.8
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.3
0% Min	4.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.3	76423	8.1	76459
6.0	76478	8.1	76513
6.2	76357	8.3	76632
6.3	76477	8.5	76437
6.3	76404	8.5	76438


Parameter=Surface pH (std. units) STATION=12
Percent
50
40
30
20
10
0
4.4
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=13

Moments			
N	333	**Sum Weights**	333
Mean	7.33933934	**Sum Observations**	2444
Std Deviation	0.43030759	**Variance**	0.18516462
Skewness	-1.5931459	**Kurtosis**	8.22835313
Uncorrected SS	17998.82	**Corrected SS**	61.4746547
Coeff Variation	5.86302895	**Std Error Mean**	0.02358071

Basic Statistical Measures			
Location		**Variability**	
Mean	7.339339	**Std Deviation**	0.43031
Median	7.400000	**Variance**	0.18516
Mode	7.500000	**Range**	4.40000
		Interquartile Range	0.50000

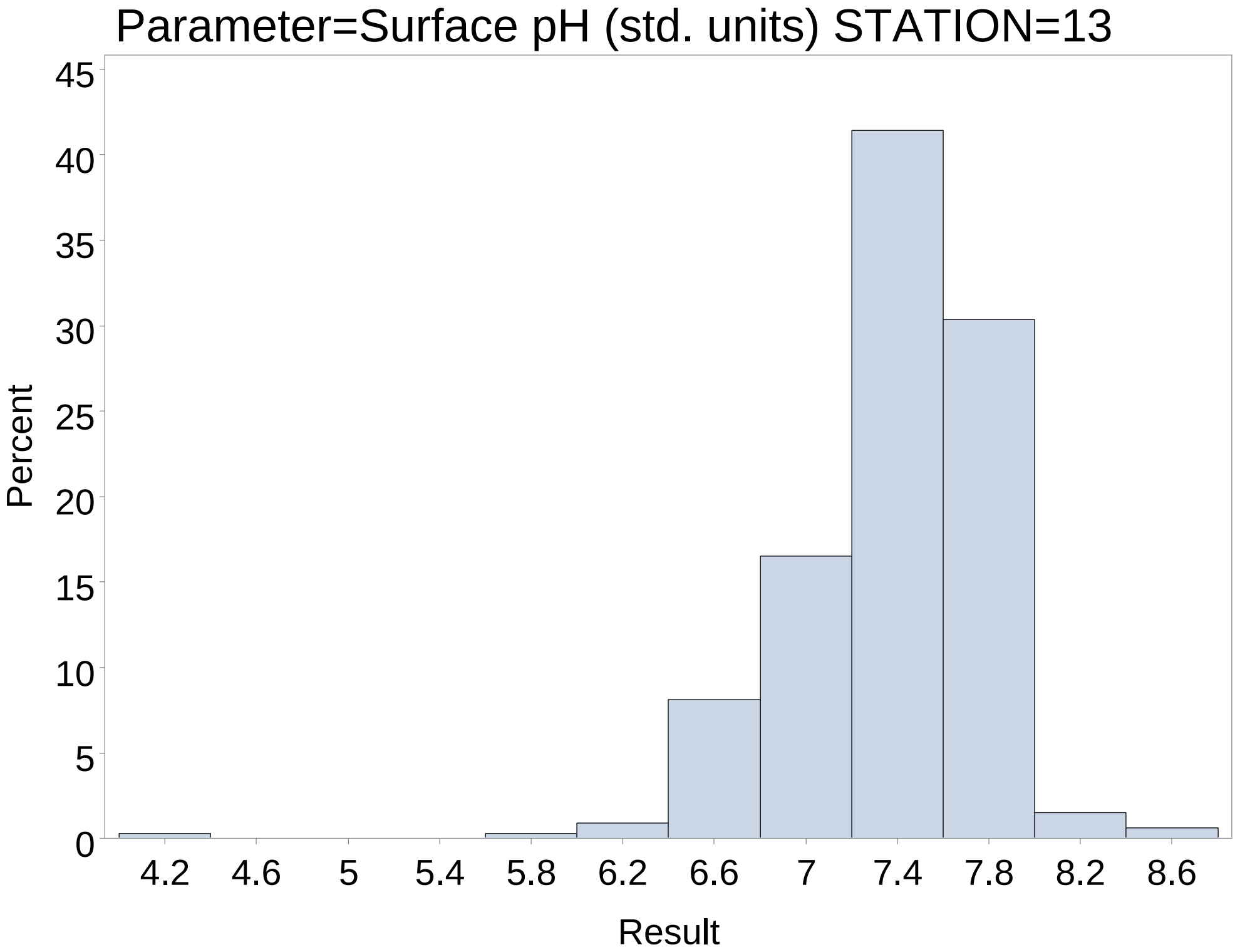
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	311.2433	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.1
95%	7.9
90%	7.8
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.3
0% Min	4.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.2	76863	8.0	76845
5.9	76810	8.1	76791
6.1	76688	8.3	76965
6.3	76809	8.4	76770
6.3	76687	8.6	76769


Parameter=Surface pH (std. units) STATION=13
Percent
45
40
35
30
25
20
15
10
5
0
4.2
4.6
5
5.4
5.8
6.2
6.6
7
7.4
7.8
8.2
8.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=14

Moments			
N	332	**Sum Weights**	332
Mean	7.35180723	**Sum Observations**	2440.8
Std Deviation	0.39700128	**Variance**	0.15761002
Skewness	0.13366396	**Kurtosis**	3.4286648
Uncorrected SS	17996.46	**Corrected SS**	52.1689157
Coeff Variation	5.4000502	**Std Error Mean**	0.02178828

Basic Statistical Measures			
Location		**Variability**	
Mean	7.351807	**Std Deviation**	0.39700
Median	7.400000	**Variance**	0.15761
Mode	7.500000	**Range**	3.70000
		Interquartile Range	0.50000

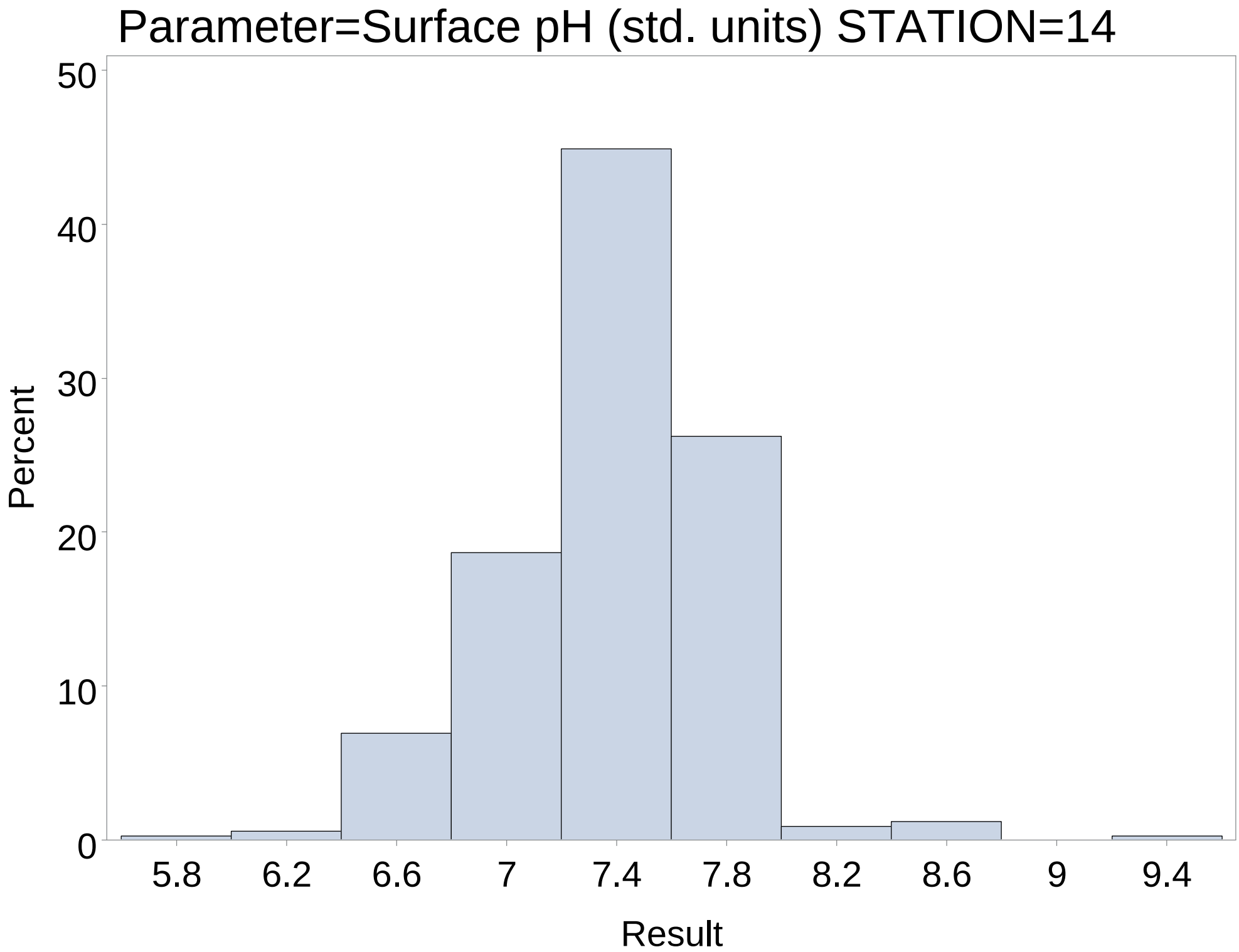
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	337.4203	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.5
99%	8.6
95%	7.9
90%	7.7
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.7
1%	6.4
0% Min	5.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.8	77141	8.4	77297
6.2	77020	8.6	77101
6.3	77019	8.6	77123
6.4	77229	8.7	77102
6.4	76994	9.5	77129


Parameter=Surface pH (std. units) STATION=14
Percent
50
40
30
20
10
0
5.8
6.2
6.6
7
7.4
7.8
8.2
8.6
9
9.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=15

Moments			
N	331	**Sum Weights**	331
Mean	7.35951662	**Sum Observations**	2436
Std Deviation	0.38736688	**Variance**	0.1500531
Skewness	-0.4812937	**Kurtosis**	0.90610773
Uncorrected SS	17977.3	**Corrected SS**	49.5175227
Coeff Variation	5.26348263	**Std Error Mean**	0.02129161

Basic Statistical Measures			
Location		**Variability**	
Mean	7.359517	**Std Deviation**	0.38737
Median	7.400000	**Variance**	0.15005
Mode	7.500000	**Range**	2.80000
		Interquartile Range	0.50000

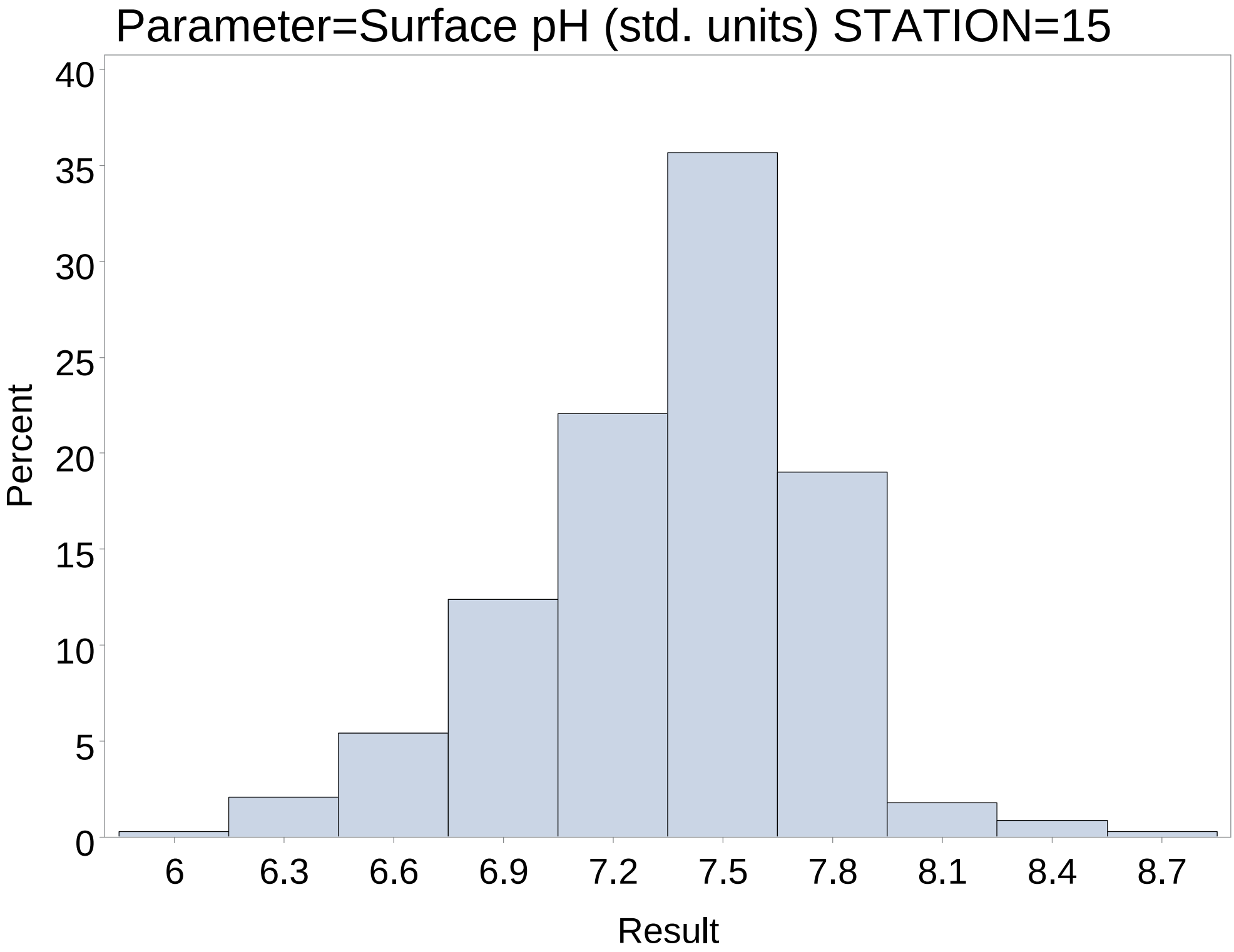
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	345.6534	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.7
99%	8.4
95%	7.9
90%	7.8
75% Q3	7.6
50% Median	7.4
25% Q1	7.1
10%	6.8
5%	6.6
1%	6.4
0% Min	5.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.9	77472	8.1	77508
6.2	77353	8.4	77383
6.4	77599	8.4	77454
6.4	77400	8.4	77628
6.4	77363	8.7	77433


Parameter=Surface pH (std. units) STATION=15
Percent
40
35
30
25
20
15
10
5
0
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=16

Moments			
N	331	**Sum Weights**	331
Mean	7.42839879	**Sum Observations**	2458.8
Std Deviation	0.41169661	**Variance**	0.1694941
Skewness	-0.4020775	**Kurtosis**	0.33783757
Uncorrected SS	18320.88	**Corrected SS**	55.9330514
Coeff Variation	5.54219849	**Std Error Mean**	0.02262889

Basic Statistical Measures			
Location		**Variability**	
Mean	7.428399	**Std Deviation**	0.41170
Median	7.500000	**Variance**	0.16949
Mode	7.400000	**Range**	2.50000
		Interquartile Range	0.50000

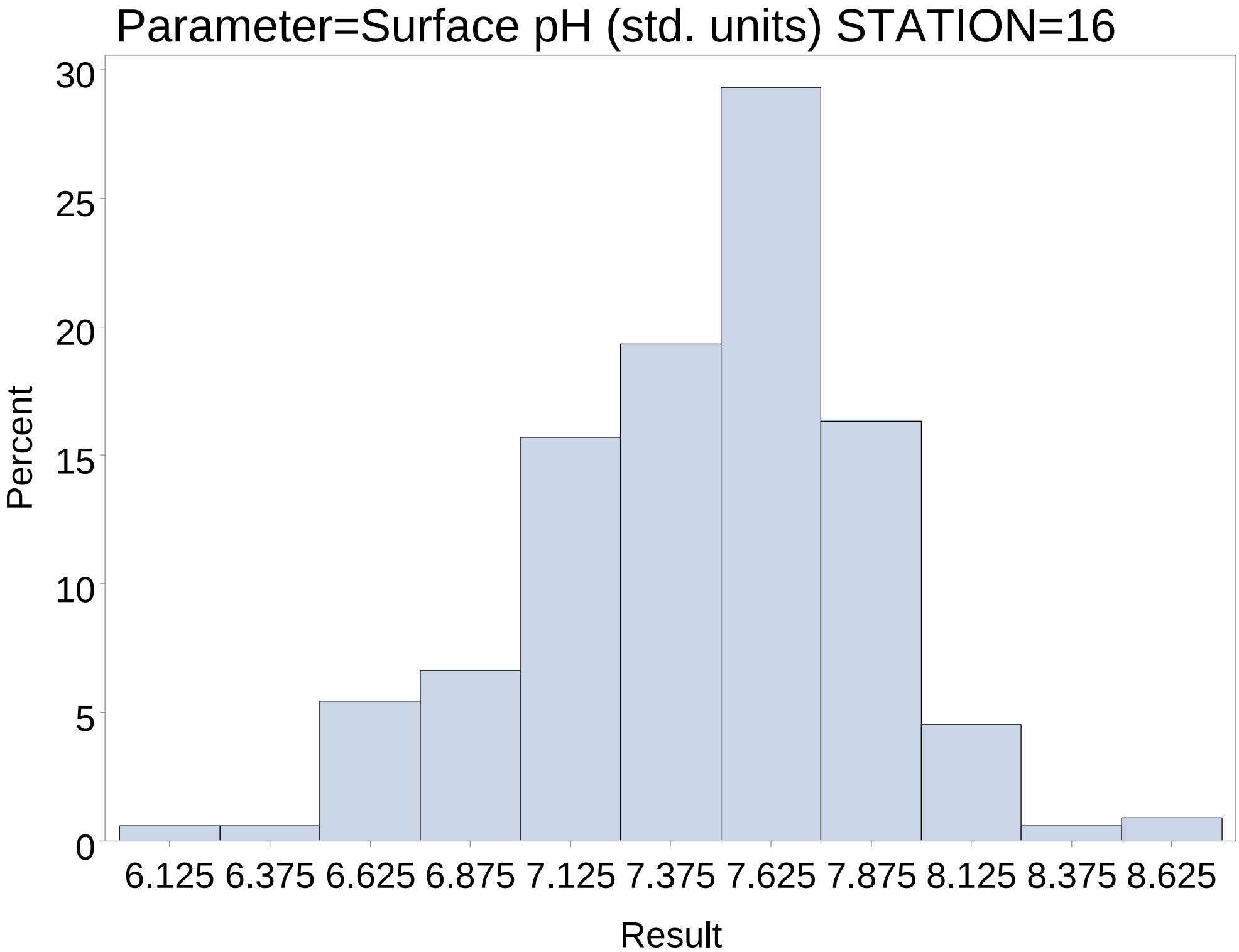
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	328.2705	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.6
99%	8.4
95%	8.0
90%	7.9
75% Q3	7.7
50% Median	7.5
25% Q1	7.2
10%	6.9
5%	6.7
1%	6.4
0% Min	6.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.1	77684	8.3	77959
6.2	77694	8.4	77822
6.4	77683	8.6	77765
6.4	77671	8.6	77786
6.5	77955	8.6	77793


Parameter=Surface pH (std. units) STATION=16
Percent
30
25
20
15
10
5
0
6.125
6.375
6.625
6.875
7.125
7.375
7.625
7.875
8.125
8.375
8.625
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=17

Moments			
N	329	**Sum Weights**	329
Mean	7.45896657	**Sum Observations**	2454
Std Deviation	0.43342105	**Variance**	0.18785381
Skewness	-0.3850801	**Kurtosis**	0.02547823
Uncorrected SS	18365.92	**Corrected SS**	61.6160486
Coeff Variation	5.81073861	**Std Error Mean**	0.02389528

Basic Statistical Measures			
Location		**Variability**	
Mean	7.458967	**Std Deviation**	0.43342
Median	7.500000	**Variance**	0.18785
Mode	7.500000	**Range**	2.60000
		Interquartile Range	0.60000

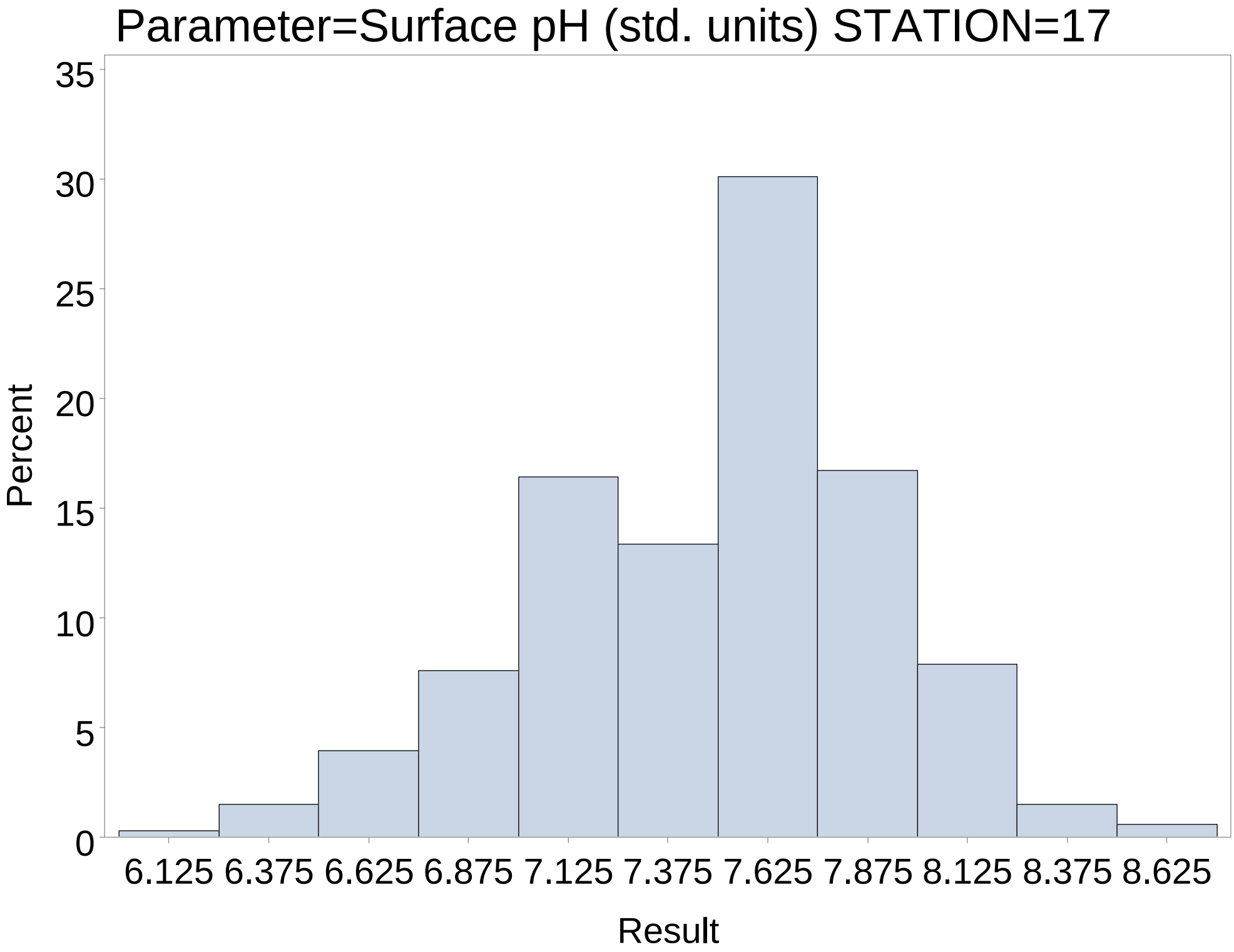
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	312.1524	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.7
99%	8.3
95%	8.1
90%	8.0
75% Q3	7.8
50% Median	7.5
25% Q1	7.2
10%	6.9
5%	6.7
1%	6.4
0% Min	6.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.1	78015	8.3	78207
6.3	77976	8.3	78208
6.4	78134	8.4	78152
6.4	78025	8.5	78095
6.4	78014	8.7	78123


Parameter=Surface pH (std. units) STATION=17
Percent
35
30
25
20
15
10
5
0
6.125
6.375
6.625
6.875
7.125
7.375
7.625
7.875
8.125
8.375
8.625
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=18

Moments			
N	328	**Sum Weights**	328
Mean	7.43170732	**Sum Observations**	2437.6
Std Deviation	0.50085628	**Variance**	0.25085701
Skewness	-0.9847309	**Kurtosis**	3.07776829
Uncorrected SS	18197.56	**Corrected SS**	82.0302439
Coeff Variation	6.73945112	**Std Error Mean**	0.02765516

Basic Statistical Measures			
Location		**Variability**	
Mean	7.431707	**Std Deviation**	0.50086
Median	7.500000	**Variance**	0.25086
Mode	7.800000	**Range**	4.30000
		Interquartile Range	0.70000

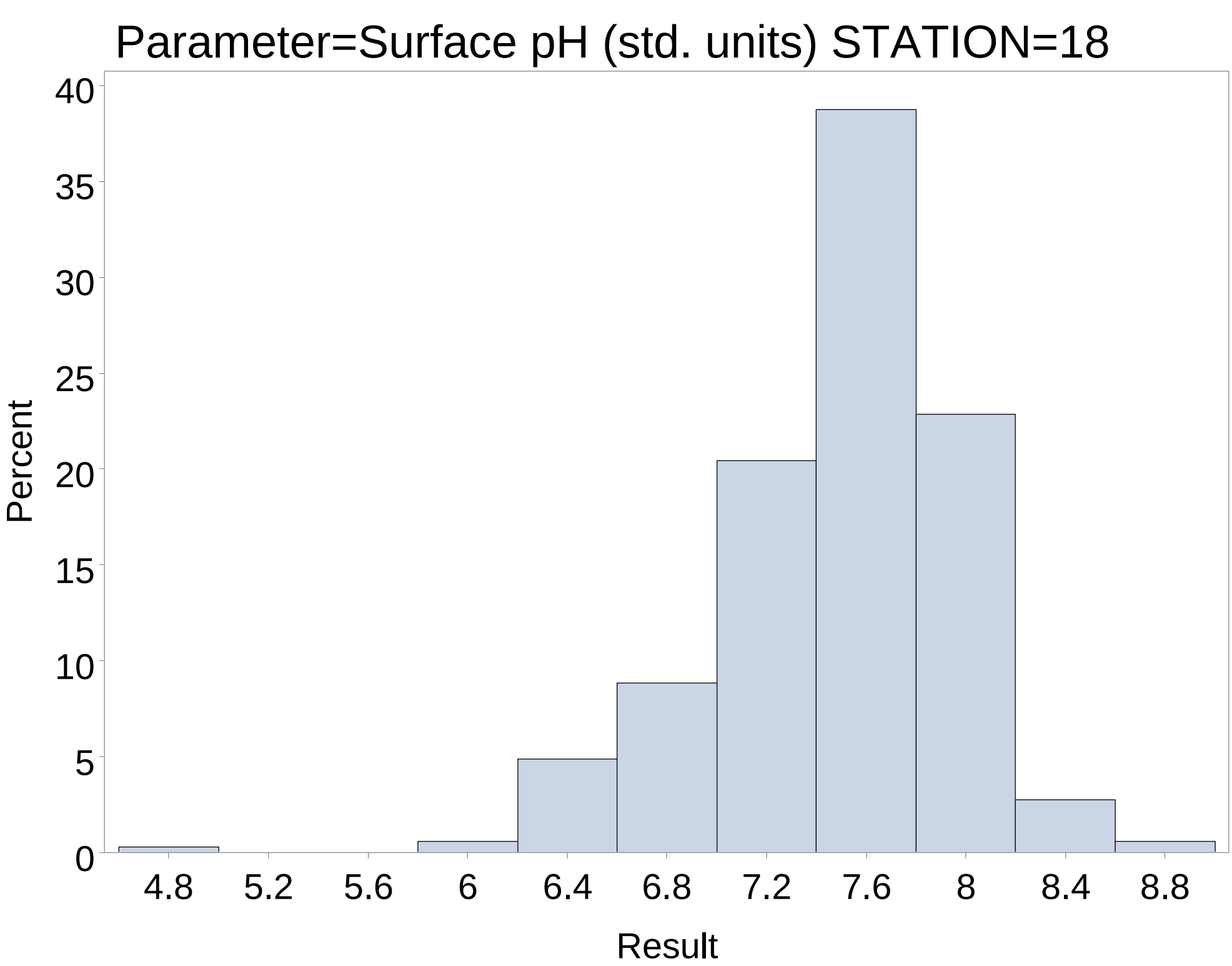
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	268.7277	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.9
99%	8.3
95%	8.1
90%	8.0
75% Q3	7.8
50% Median	7.5
25% Q1	7.1
10%	6.8
5%	6.5
1%	6.2
0% Min	4.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.6	78323	8.3	78537
5.8	78462	8.3	78616
5.9	78343	8.5	78423
6.2	78353	8.8	78464
6.3	78612	8.9	78451


Parameter=Surface pH (std. units) STATION=18
Percent
40
35
30
25
20
15
10
5
0
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
8.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=19

Moments			
N	329	**Sum Weights**	329
Mean	7.53404255	**Sum Observations**	2478.7
Std Deviation	0.49064021	**Variance**	0.24072782
Skewness	-1.0392685	**Kurtosis**	4.1433066
Uncorrected SS	18753.59	**Corrected SS**	78.9587234
Coeff Variation	6.51231004	**Std Error Mean**	0.02704987

Basic Statistical Measures			
Location		**Variability**	
Mean	7.534043	**Std Deviation**	0.49064
Median	7.600000	**Variance**	0.24073
Mode	7.700000	**Range**	4.50000
		Interquartile Range	0.50000

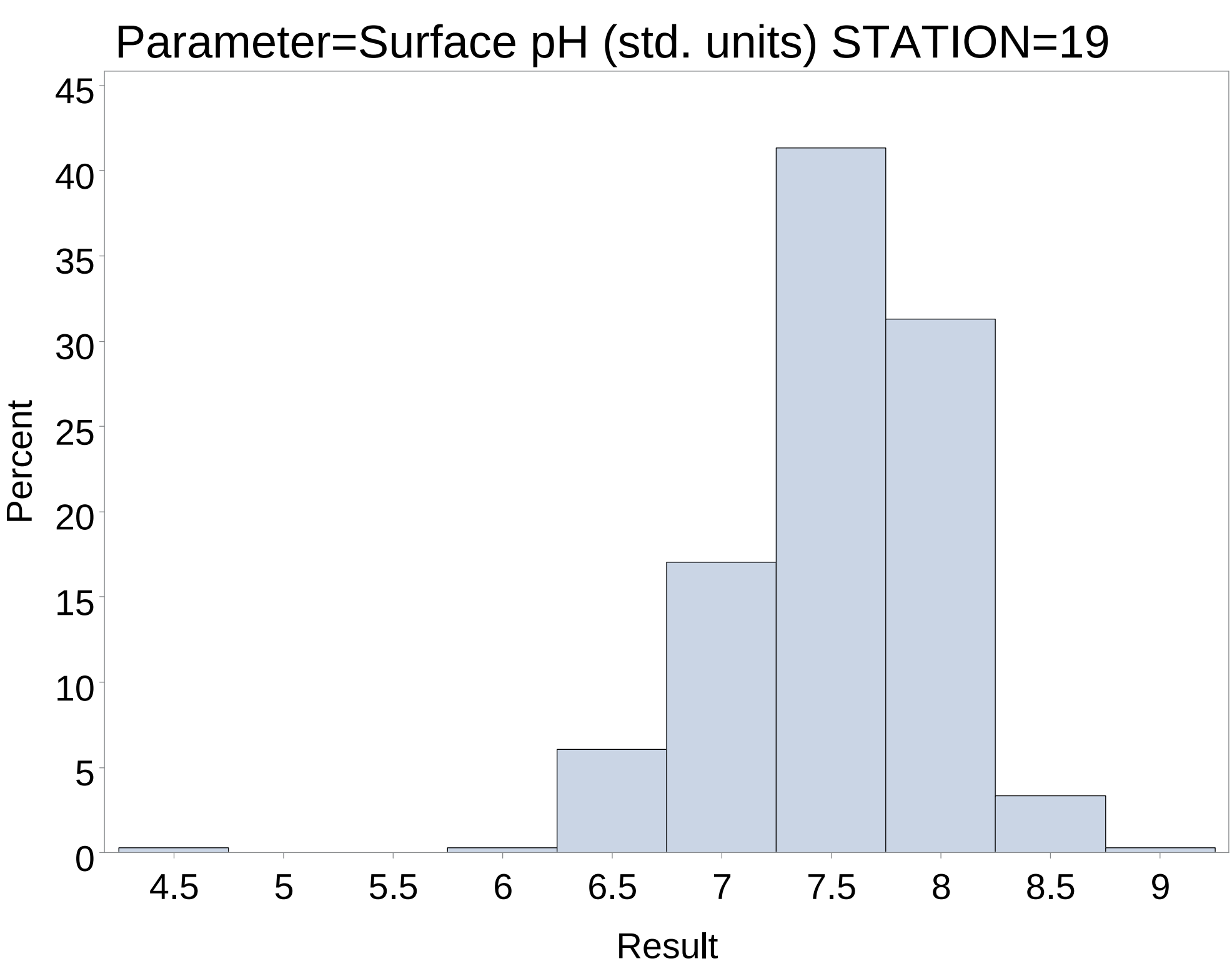
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	278.5242	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.0
99%	8.6
95%	8.2
90%	8.1
75% Q3	7.8
50% Median	7.6
25% Q1	7.3
10%	6.8
5%	6.7
1%	6.3
0% Min	4.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.5	78651	8.5	78797
6.1	78672	8.6	78754
6.3	78941	8.6	78812
6.3	78719	8.7	78782
6.4	78683	9.0	78864


Parameter=Surface pH (std. units) STATION=19
Percent
45
40
35
30
25
20
15
10
5
0
4.5
5
5.5
6
6.5
7
7.5
8
8.5
9
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	7.3	**Sum Observations**	7.3
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	53.29	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	7.300000	**Std Deviation**	.
Median	7.300000	**Variance**	.
Mode	7.300000	**Range**	0
		Interquartile Range	0

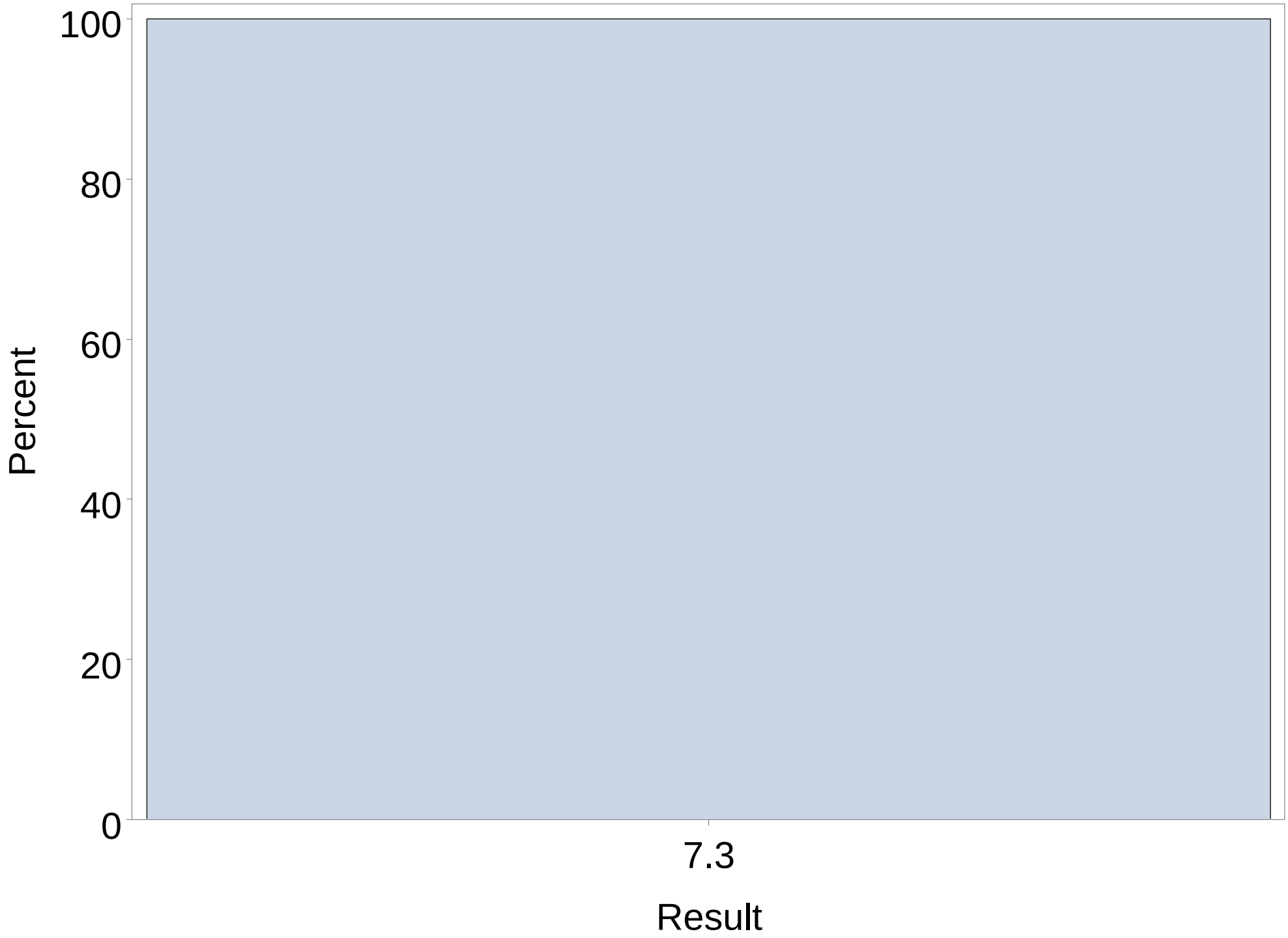
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.3
99%	7.3
95%	7.3
90%	7.3
75% Q3	7.3
50% Median	7.3
25% Q1	7.3
10%	7.3
5%	7.3
1%	7.3
0% Min	7.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface pH (std. units) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.3	78957	7.3	78957


Parameter=Surface pH (std. units) STATION=22
100
80
60
40
20
0
Percent
7.3
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	7.24743697	**Sum Observations**	2427.89139
Std Deviation	0.46064858	**Variance**	0.21219711
Skewness	-0.3051253	**Kurtosis**	0.73872183
Uncorrected SS	17666.8636	**Corrected SS**	70.8738359
Coeff Variation	6.35602049	**Std Error Mean**	0.02516792

Basic Statistical Measures			
Location		**Variability**	
Mean	7.247437	**Std Deviation**	0.46065
Median	7.300000	**Variance**	0.21220
Mode	7.400000	**Range**	2.80556
		Interquartile Range	0.53000

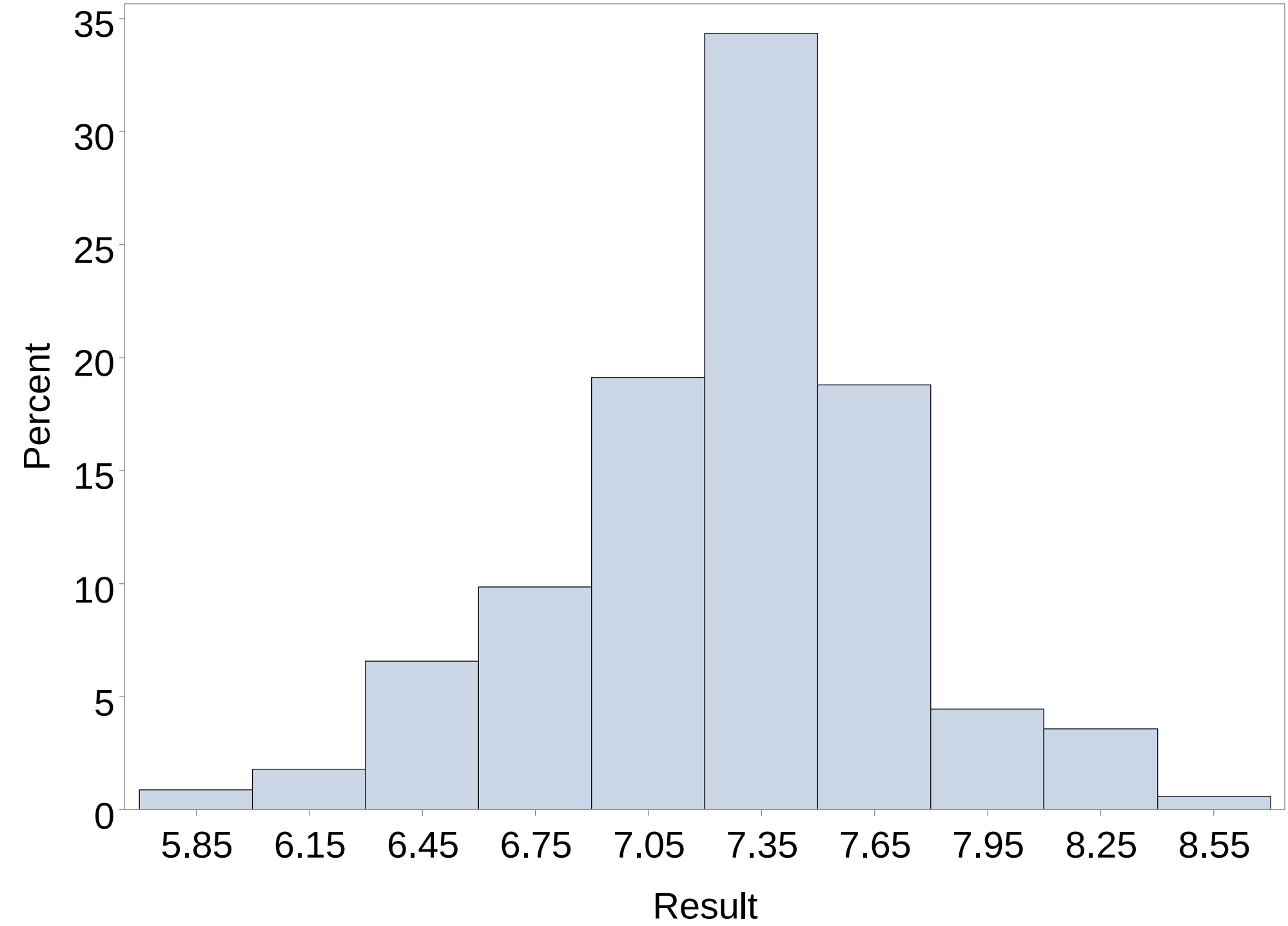
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	287.9633	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.55000
99%	8.30000
95%	7.97143
90%	7.72500
75% Q3	7.52000
50% Median	7.30000
25% Q1	6.99000
10%	6.60000
5%	6.45000
1%	6.01250
0% Min	5.74444

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.74444	79125	8.30000	79063
5.75000	79185	8.30000	79083
5.78750	79187	8.36667	79064
6.01250	79124	8.42857	79161
6.10000	79278	8.55000	79176


Parameter=Water Column Average pH (std. units) STATION=1
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	7.38073692	**Sum Observations**	2457.78539
Std Deviation	0.3583023	**Variance**	0.12838054
Skewness	-0.5497797	**Kurtosis**	0.98533663
Uncorrected SS	18182.8897	**Corrected SS**	42.6223397
Coeff Variation	4.85456003	**Std Error Mean**	0.01963485

Basic Statistical Measures			
Location		**Variability**	
Mean	7.380737	**Std Deviation**	0.35830
Median	7.433333	**Variance**	0.12838
Mode	7.500000	**Range**	2.56429
		Interquartile Range	0.44722

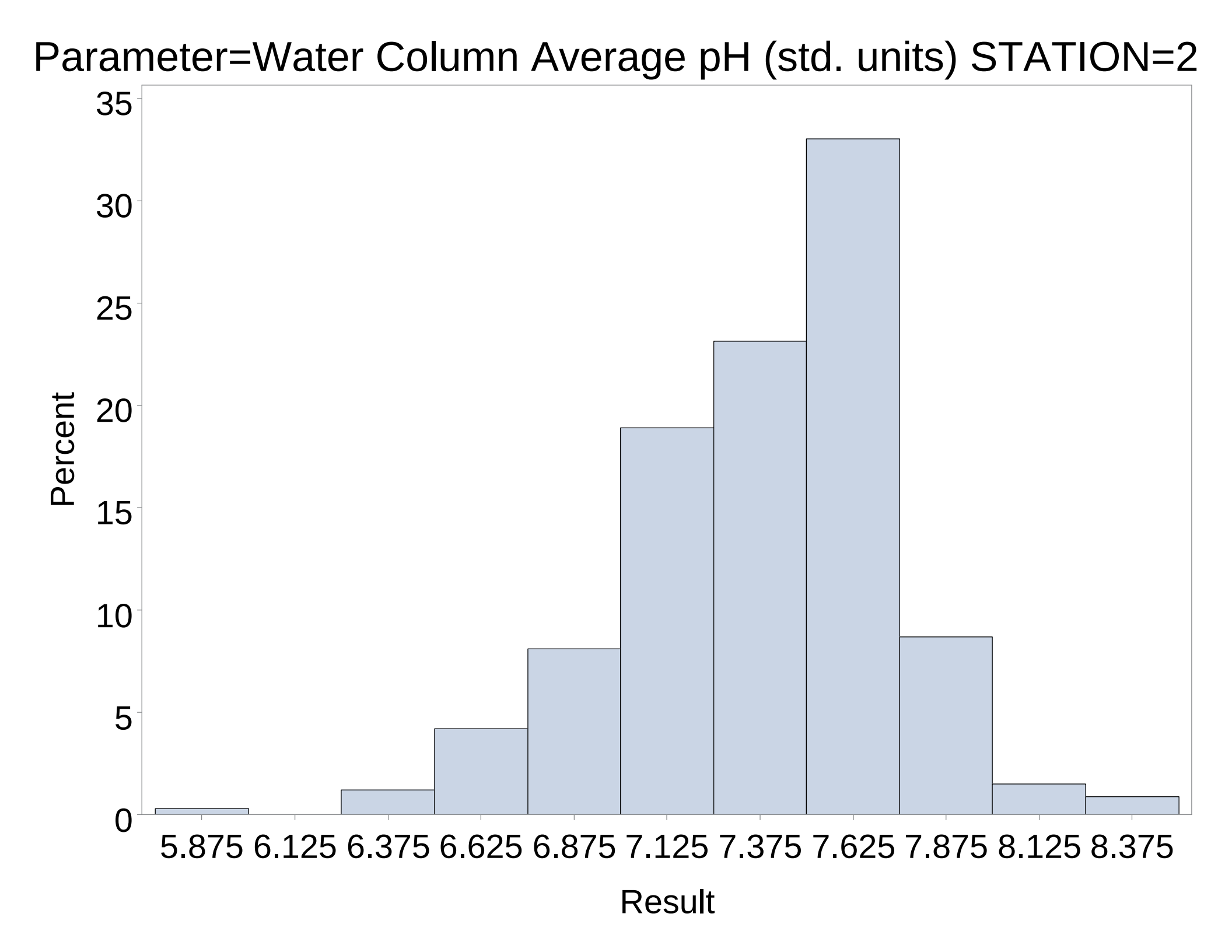
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	375.8999	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.45000
99%	8.12857
95%	7.84000
90%	7.77143
75% Q3	7.62500
50% Median	7.43333
25% Q1	7.17778
10%	6.90000
5%	6.74444
1%	6.43333
0% Min	5.88571

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.88571	79458	8.12500	79534
6.28333	79457	8.12857	79352
6.42000	79518	8.31667	79509
6.43333	79337	8.41429	79417
6.47000	79310	8.45000	79418


Parameter=Water Column Average pH (std. units) STATION=2
Percent
0
5
10
15
20
25
30
35
5.875
6.125
6.375
6.625
6.875
7.125
7.375
7.625
7.875
8.125
8.375
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	7.37563564	**Sum Observations**	2456.08667
Std Deviation	0.4917115	**Variance**	0.2417802
Skewness	-0.8521222	**Kurtosis**	2.31926406
Uncorrected SS	18195.4714	**Corrected SS**	80.2710277
Coeff Variation	6.66670005	**Std Error Mean**	0.02694562

Basic Statistical Measures			
Location		**Variability**	
Mean	7.375636	**Std Deviation**	0.49171
Median	7.433333	**Variance**	0.24178
Mode	7.700000	**Range**	4.12222
		Interquartile Range	0.63333

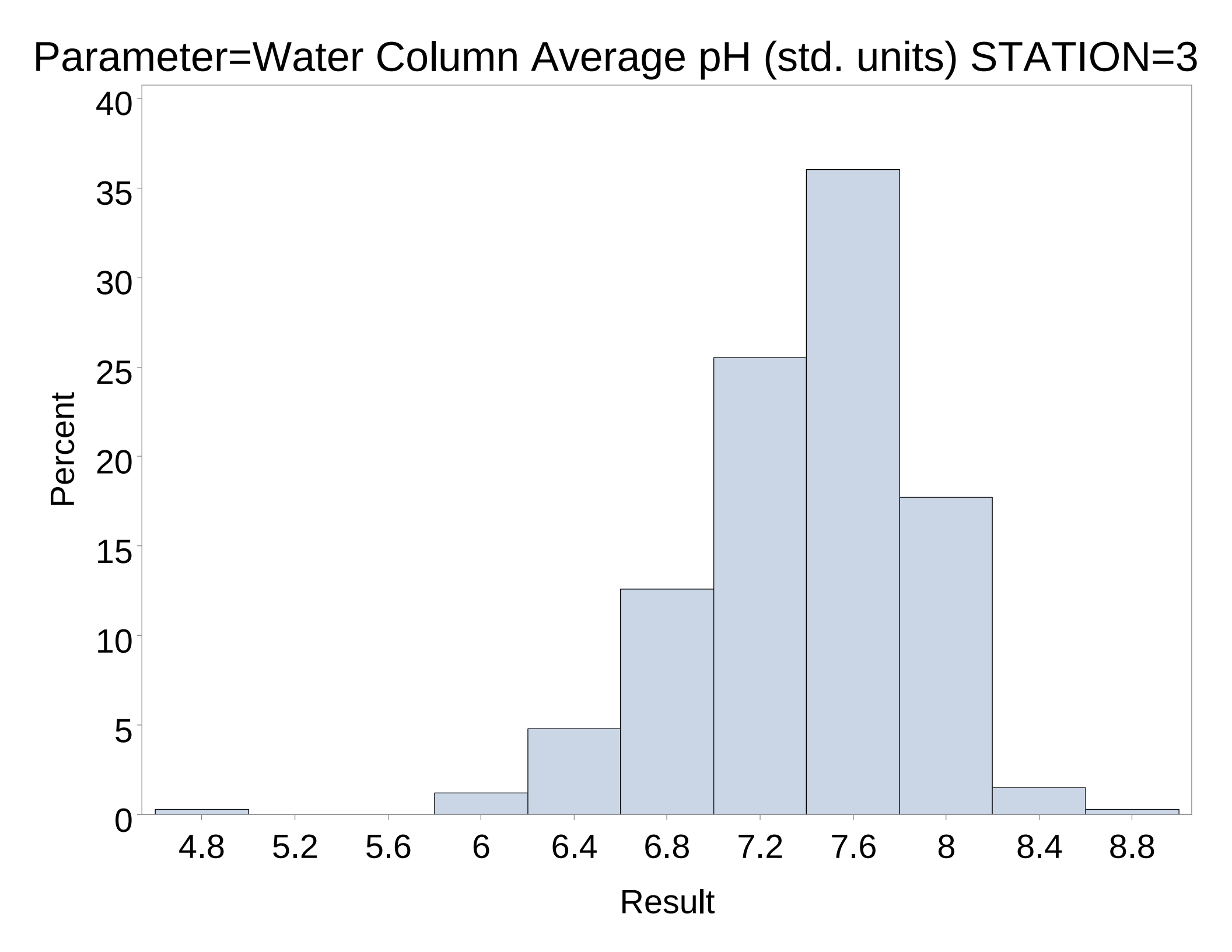
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	273.7229	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.80000
99%	8.30000
95%	8.07500
90%	7.90000
75% Q3	7.70000
50% Median	7.43333
25% Q1	7.06667
10%	6.70000
5%	6.50000
1%	6.04000
0% Min	4.67778

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.67778	79777	8.3	79750
5.91111	79791	8.3	79827
6.00000	79943	8.3	79842
6.04000	79644	8.4	79751
6.17500	79670	8.8	79832


Parameter=Water Column Average pH (std. units) STATION=3
Percent
40
35
30
25
20
15
10
5
0
4.8
5.2
5.6
6
6.4
6.8
7.2
7.6
8
8.4
8.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=4

Moments			
N	333	**Sum Weights**	333
Mean	7.25818962	**Sum Observations**	2416.97714
Std Deviation	0.39646185	**Variance**	0.157182
Skewness	-0.4141604	**Kurtosis**	1.0659118
Uncorrected SS	17595.0628	**Corrected SS**	52.184424
Coeff Variation	5.46226915	**Std Error Mean**	0.02172598

Basic Statistical Measures			
Location		**Variability**	
Mean	7.258190	**Std Deviation**	0.39646
Median	7.325000	**Variance**	0.15718
Mode	7.400000	**Range**	2.89286
		Interquartile Range	0.53333

Note: The mode displayed is the smallest of 3 modes with a count of 7.

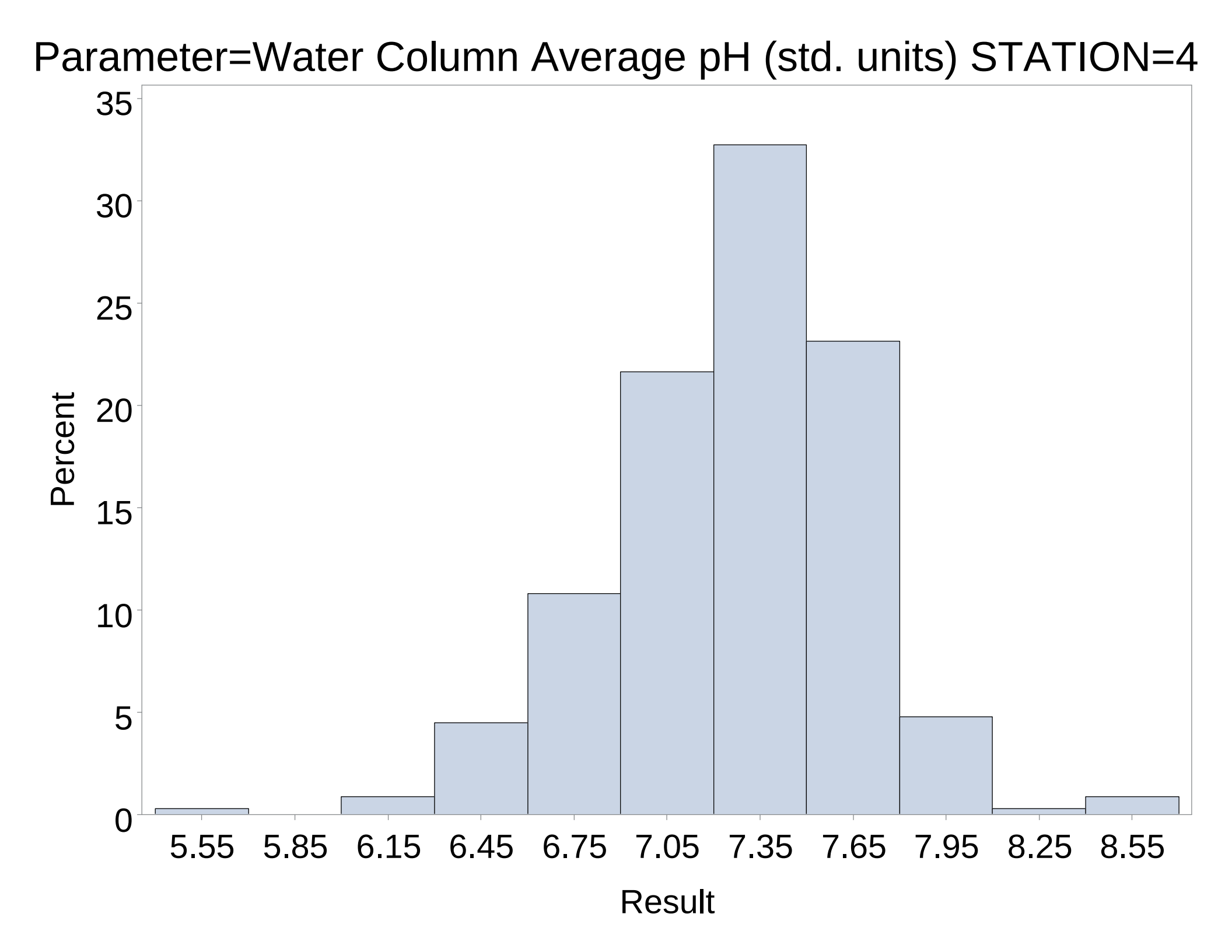
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	334.0789	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.55000
99%	8.15000
95%	7.80000
90%	7.70000
75% Q3	7.53333
50% Median	7.32500
25% Q1	7.00000
10%	6.73333
5%	6.51429
1%	6.28571
0% Min	5.65714

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.65714	80125	7.96667	80127
6.00000	80003	8.15000	80280
6.23750	80002	8.50000	80085
6.28571	79964	8.53333	80084
6.31250	80124	8.55000	80045


Parameter=Water Column Average pH (std. units) STATION=4
Percent
0
5
10
15
20
25
30
35
5.55
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	7.28184328	**Sum Observations**	2439.4175
Std Deviation	0.40127265	**Variance**	0.16101974
Skewness	-0.5123625	**Kurtosis**	1.33940733
Uncorrected SS	17817.2365	**Corrected SS**	53.7805932
Coeff Variation	5.51059169	**Std Error Mean**	0.02192387

Basic Statistical Measures			
Location		**Variability**	
Mean	7.281843	**Std Deviation**	0.40127
Median	7.350000	**Variance**	0.16102
Mode	7.400000	**Range**	2.86333
		Interquartile Range	0.48333

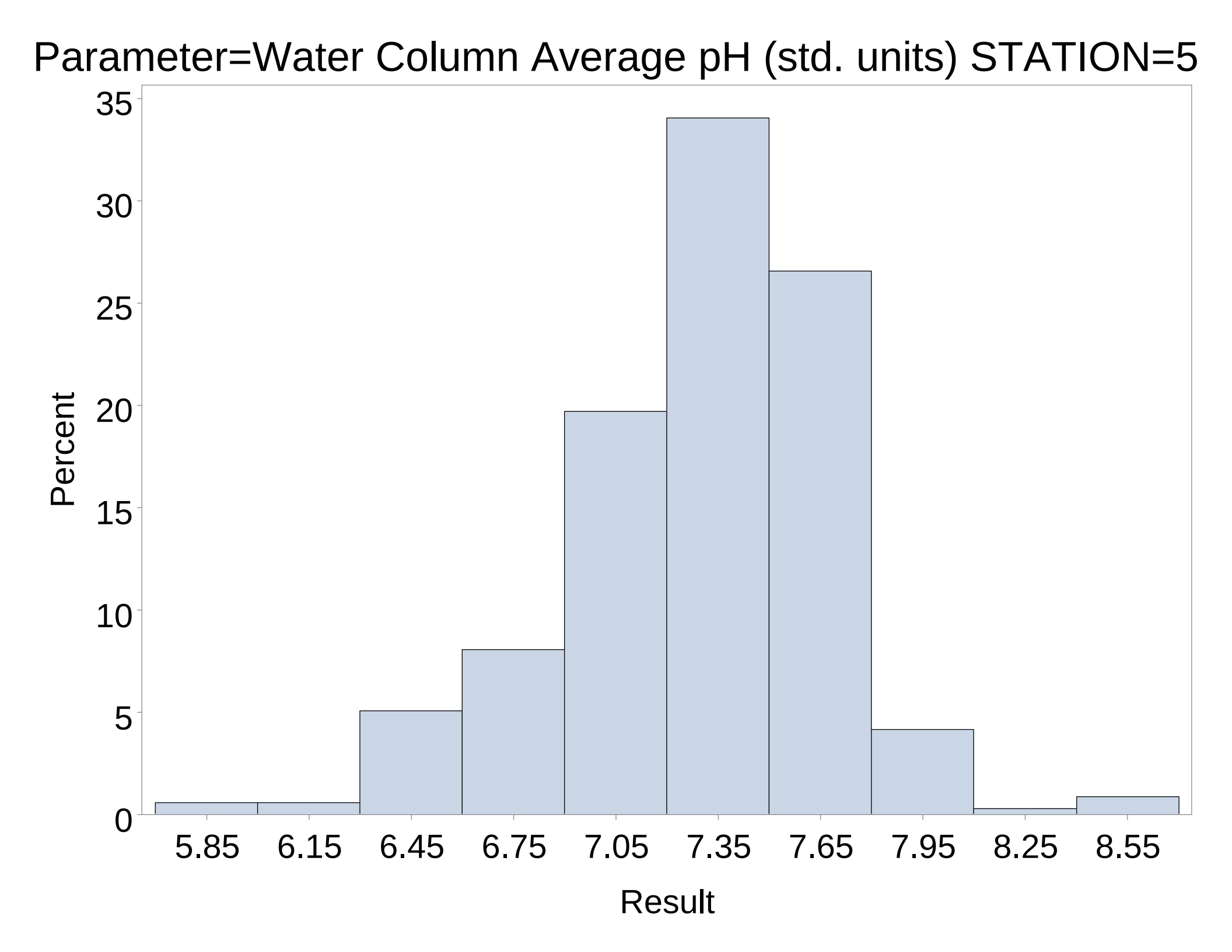
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	332.1423	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.68333
99%	8.17500
95%	7.80000
90%	7.70000
75% Q3	7.53333
50% Median	7.35000
25% Q1	7.05000
10%	6.71667
5%	6.50000
1%	6.18333
0% Min	5.82000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.82000	80459	7.96250	80420
5.90000	80323	8.17500	80615
6.02000	80337	8.50000	80419
6.18333	80336	8.60000	80418
6.30000	80603	8.68333	80440


Parameter=Water Column Average pH (std. units) STATION=5
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	7.29463678	**Sum Observations**	2429.11405
Std Deviation	0.37606232	**Variance**	0.14142287
Skewness	-0.6417617	**Kurtosis**	1.11830217
Uncorrected SS	17766.4571	**Corrected SS**	46.9523935
Coeff Variation	5.15532625	**Std Error Mean**	0.02060809

Basic Statistical Measures			
Location		**Variability**	
Mean	7.294637	**Std Deviation**	0.37606
Median	7.350000	**Variance**	0.14142
Mode	7.500000	**Range**	2.86000
		Interquartile Range	0.47500

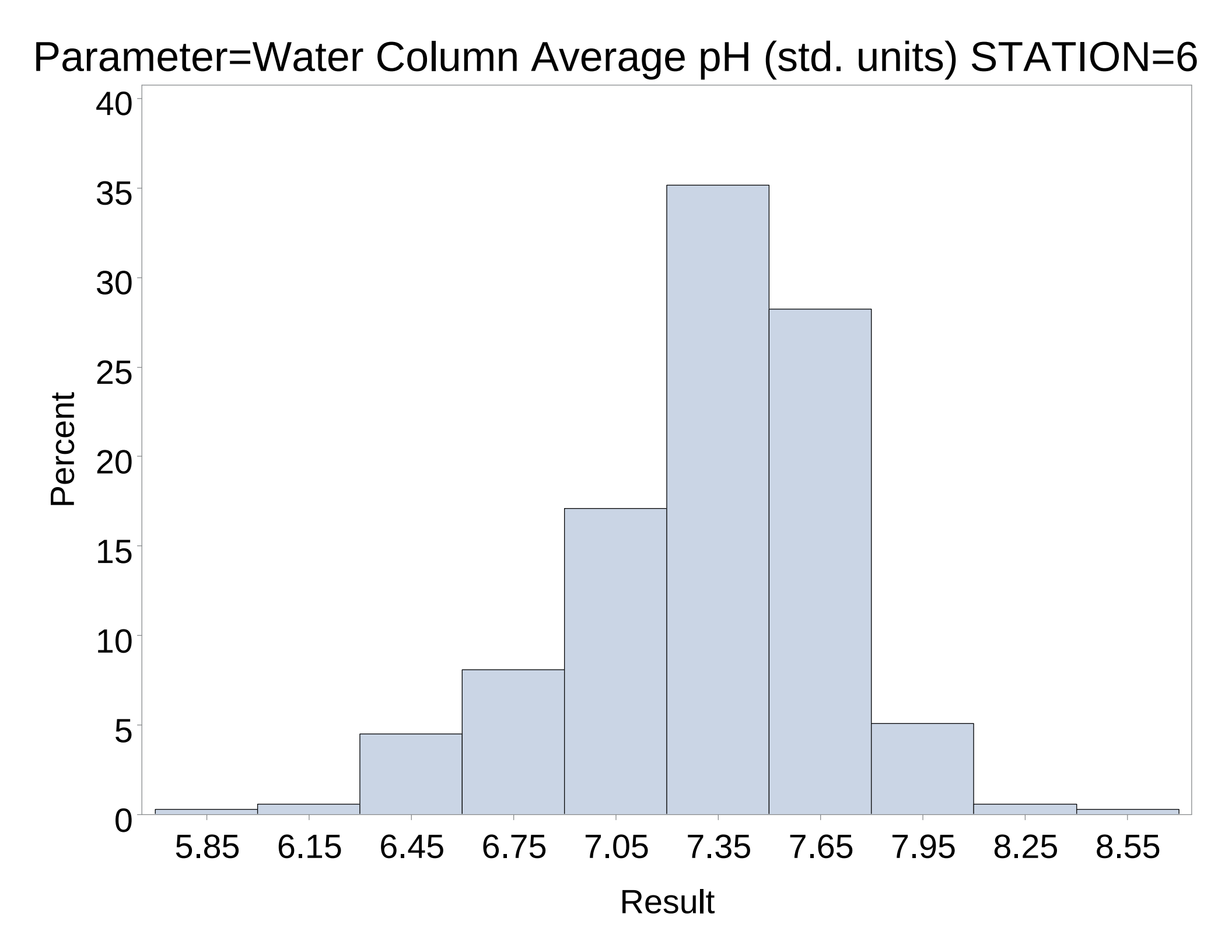
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	353.9696	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.60000
99%	8.03333
95%	7.80000
90%	7.70000
75% Q3	7.55000
50% Median	7.35000
25% Q1	7.07500
10%	6.78000
5%	6.55000
1%	6.30000
0% Min	5.74000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.74000	80792	8.00000	80828
6.07500	80671	8.03333	80701
6.28333	80718	8.18000	80774
6.30000	80670	8.20000	80948
6.38000	80632	8.60000	80753


Parameter=Water Column Average pH (std. units) STATION=6
Percent
40
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	7.33782237	**Sum Observations**	2443.49485
Std Deviation	0.39288836	**Variance**	0.15436126
Skewness	-0.6613714	**Kurtosis**	0.84156639
Uncorrected SS	17981.1791	**Corrected SS**	51.2479394
Coeff Variation	5.35429096	**Std Error Mean**	0.02153015

Basic Statistical Measures			
Location		**Variability**	
Mean	7.337822	**Std Deviation**	0.39289
Median	7.400000	**Variance**	0.15436
Mode	7.500000	**Range**	2.75000
		Interquartile Range	0.50000

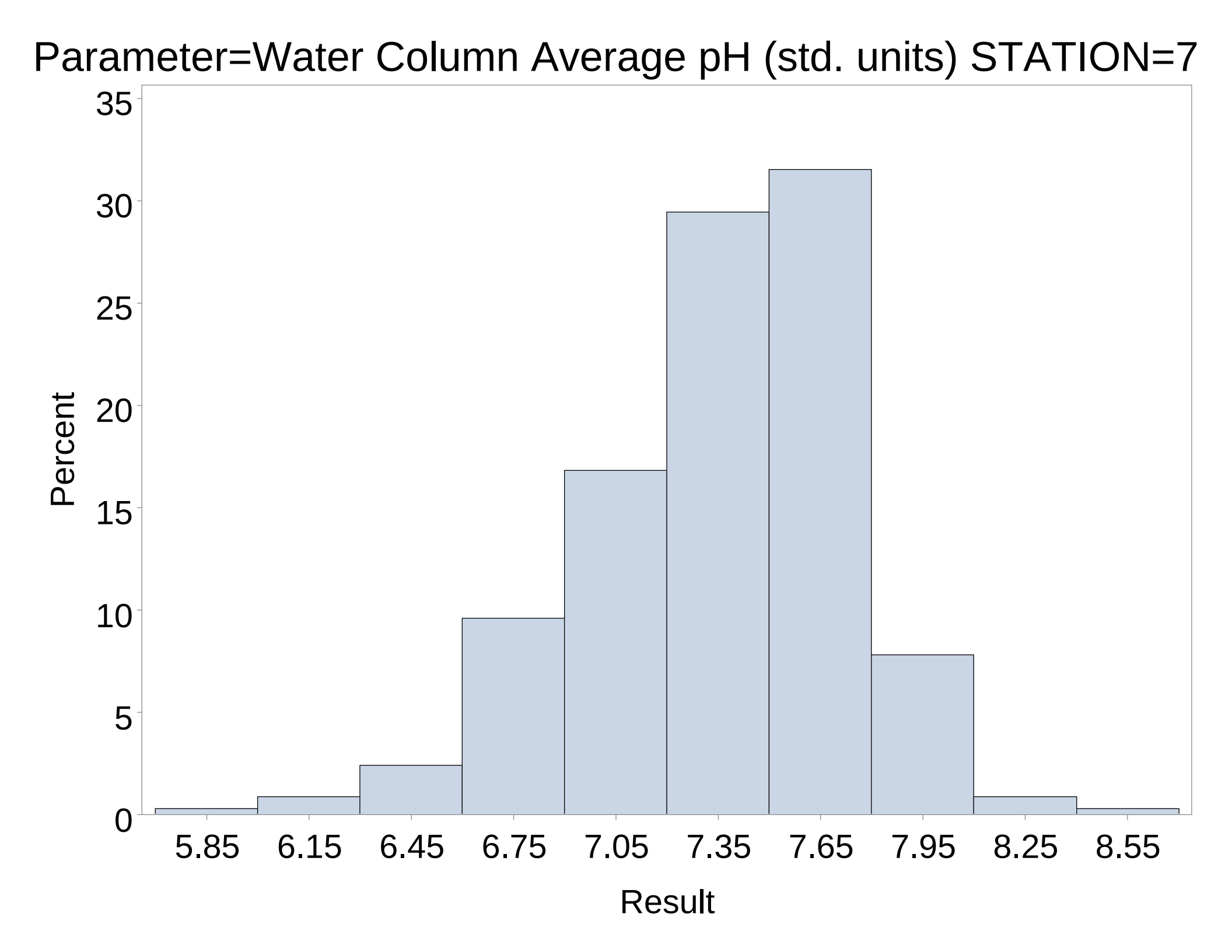
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	340.8161	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.550
99%	8.175
95%	7.825
90%	7.775
75% Q3	7.600
50% Median	7.400
25% Q1	7.100
10%	6.820
5%	6.625
1%	6.280
0% Min	5.800

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.80000	80991	8.000	81233
6.00000	81125	8.175	81201
6.06667	81004	8.200	81161
6.28000	81014	8.225	81281
6.30000	81003	8.550	81086


Parameter=Water Column Average pH (std. units) STATION=7
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	7.43314958	**Sum Observations**	2475.23881
Std Deviation	0.47841818	**Variance**	0.22888395
Skewness	-0.9235689	**Kurtosis**	1.13145814
Uncorrected SS	18474.8098	**Corrected SS**	75.9894726
Coeff Variation	6.4362781	**Std Error Mean**	0.02621715

Basic Statistical Measures			
Location		**Variability**	
Mean	7.433150	**Std Deviation**	0.47842
Median	7.540000	**Variance**	0.22888
Mode	7.700000	**Range**	3.08000
		Interquartile Range	0.58333

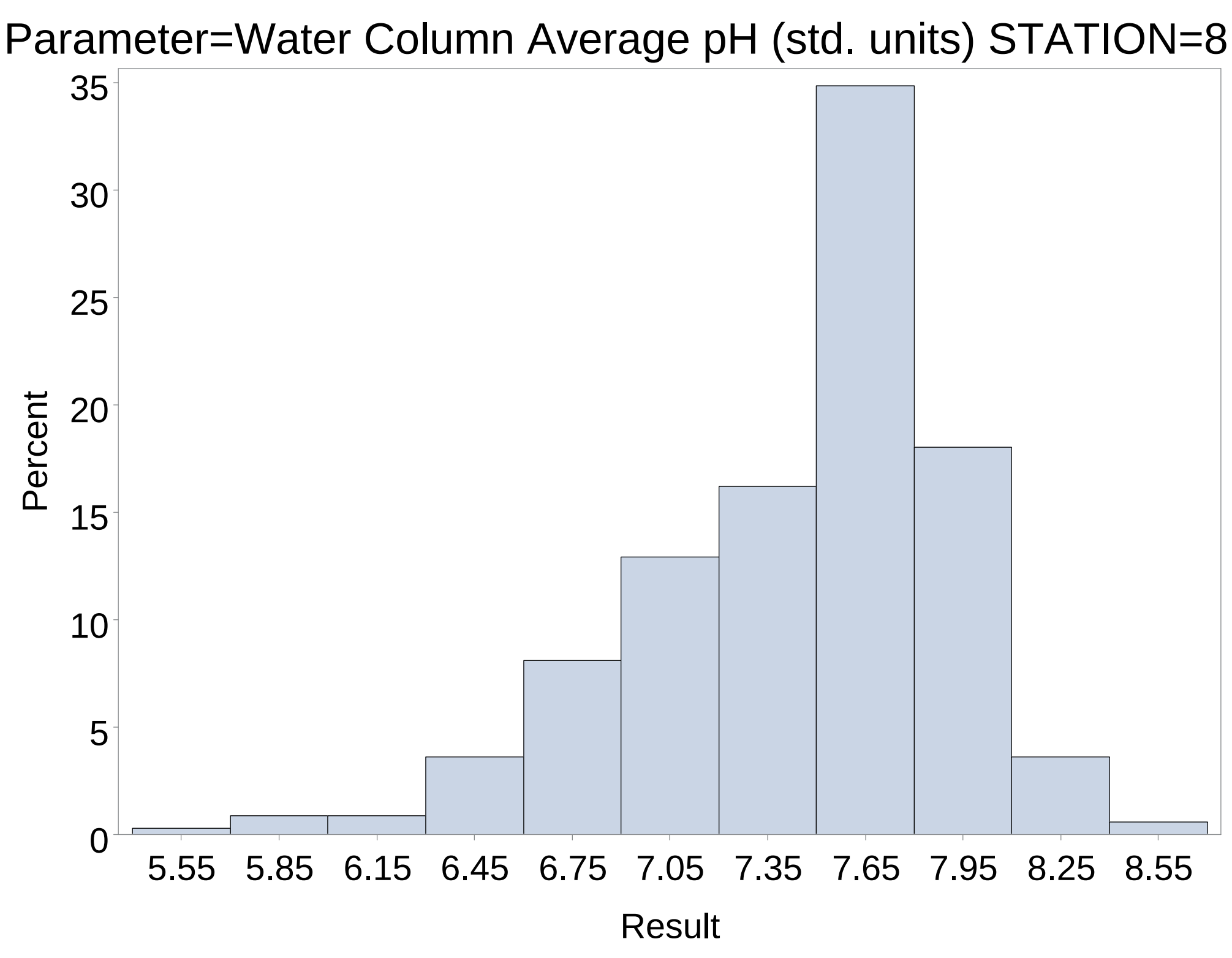
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	283.5224	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.64000
99%	8.30000
95%	8.06667
90%	7.91667
75% Q3	7.73333
50% Median	7.54000
25% Q1	7.15000
10%	6.76667
5%	6.53333
1%	5.93333
0% Min	5.56000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.56000	81324	8.2125	81440
5.76000	81458	8.3000	81494
5.76667	81337	8.3000	81534
5.93333	81298	8.5000	81419
6.12500	81347	8.6400	81447


Parameter=Water Column Average pH (std. units) STATION=8
Percent
0
5
10
15
20
25
30
35
5.55
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	7.46360634	**Sum Observations**	2485.38091
Std Deviation	0.45388724	**Variance**	0.20601363
Skewness	-0.6007259	**Kurtosis**	0.34583171
Uncorrected SS	18618.3013	**Corrected SS**	68.3965235
Coeff Variation	6.08133947	**Std Error Mean**	0.02487287

Basic Statistical Measures			
Location		**Variability**	
Mean	7.463606	**Std Deviation**	0.45389
Median	7.514286	**Variance**	0.20601
Mode	7.500000	**Range**	2.70000
		Interquartile Range	0.61429

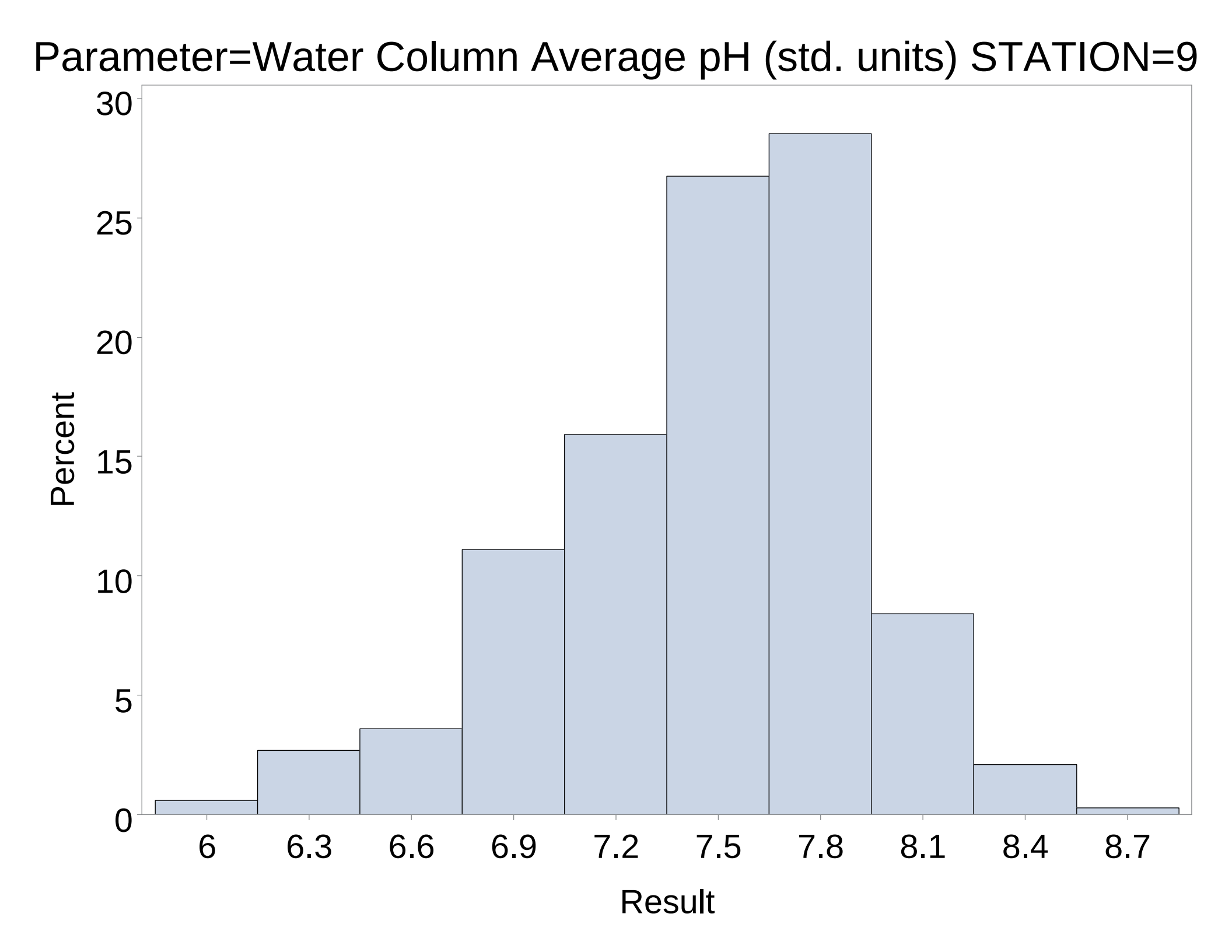
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	300.0702	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.62500
99%	8.33333
95%	8.10000
90%	7.98000
75% Q3	7.80000
50% Median	7.51429
25% Q1	7.18571
10%	6.82000
5%	6.60000
1%	6.26667
0% Min	5.92500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.92500	81670	8.32500	81773
6.05000	81649	8.33333	81867
6.23333	81680	8.42857	81810
6.26667	81631	8.50000	81752
6.32000	81943	8.62500	81780


Parameter=Water Column Average pH (std. units) STATION=9
Percent
30
25
20
15
10
5
0
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=10

Moments			
N	334	**Sum Weights**	334
Mean	7.35570858	**Sum Observations**	2456.80667
Std Deviation	0.4238392	**Variance**	0.17963967
Skewness	-0.4278692	**Kurtosis**	0.11546815
Uncorrected SS	18131.3739	**Corrected SS**	59.8200094
Coeff Variation	5.76204448	**Std Error Mean**	0.02319145

Basic Statistical Measures			
Location		**Variability**	
Mean	7.355709	**Std Deviation**	0.42384
Median	7.400000	**Variance**	0.17964
Mode	7.500000	**Range**	2.64000
		Interquartile Range	0.56667

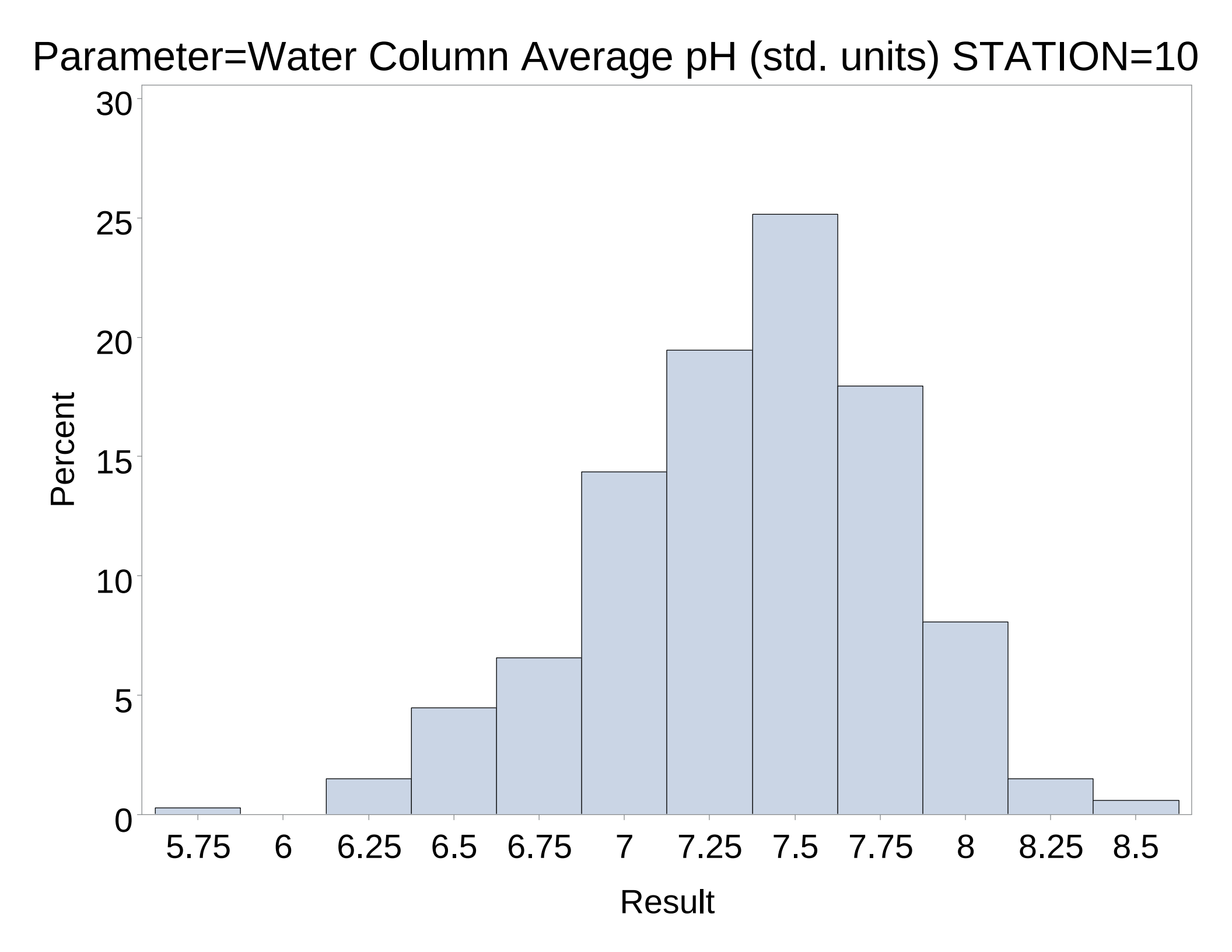
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	317.1733	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.50000
99%	8.15000
95%	7.97500
90%	7.87500
75% Q3	7.66667
50% Median	7.40000
25% Q1	7.10000
10%	6.80000
5%	6.54000
1%	6.30000
0% Min	5.86000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.86000	82126	8.14	82021
6.25000	82004	8.15	82281
6.28333	82051	8.15	82128
6.30000	82002	8.40	82085
6.32000	81977	8.50	82086


Parameter=Water Column Average pH (std. units) STATION=10
Percent
30
25
20
15
10
5
0
5.75
6
6.25
6.5
6.75
7
7.25
7.5
7.75
8
8.25
8.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=11

Moments			
N	331	**Sum Weights**	331
Mean	7.34777514	**Sum Observations**	2432.11357
Std Deviation	0.40727569	**Variance**	0.16587349
Skewness	-0.3516746	**Kurtosis**	0.1992313
Uncorrected SS	17925.3619	**Corrected SS**	54.7382521
Coeff Variation	5.54284374	**Std Error Mean**	0.0223859

Basic Statistical Measures			
Location		**Variability**	
Mean	7.347775	**Std Deviation**	0.40728
Median	7.400000	**Variance**	0.16587
Mode	7.700000	**Range**	2.66667
		Interquartile Range	0.55000

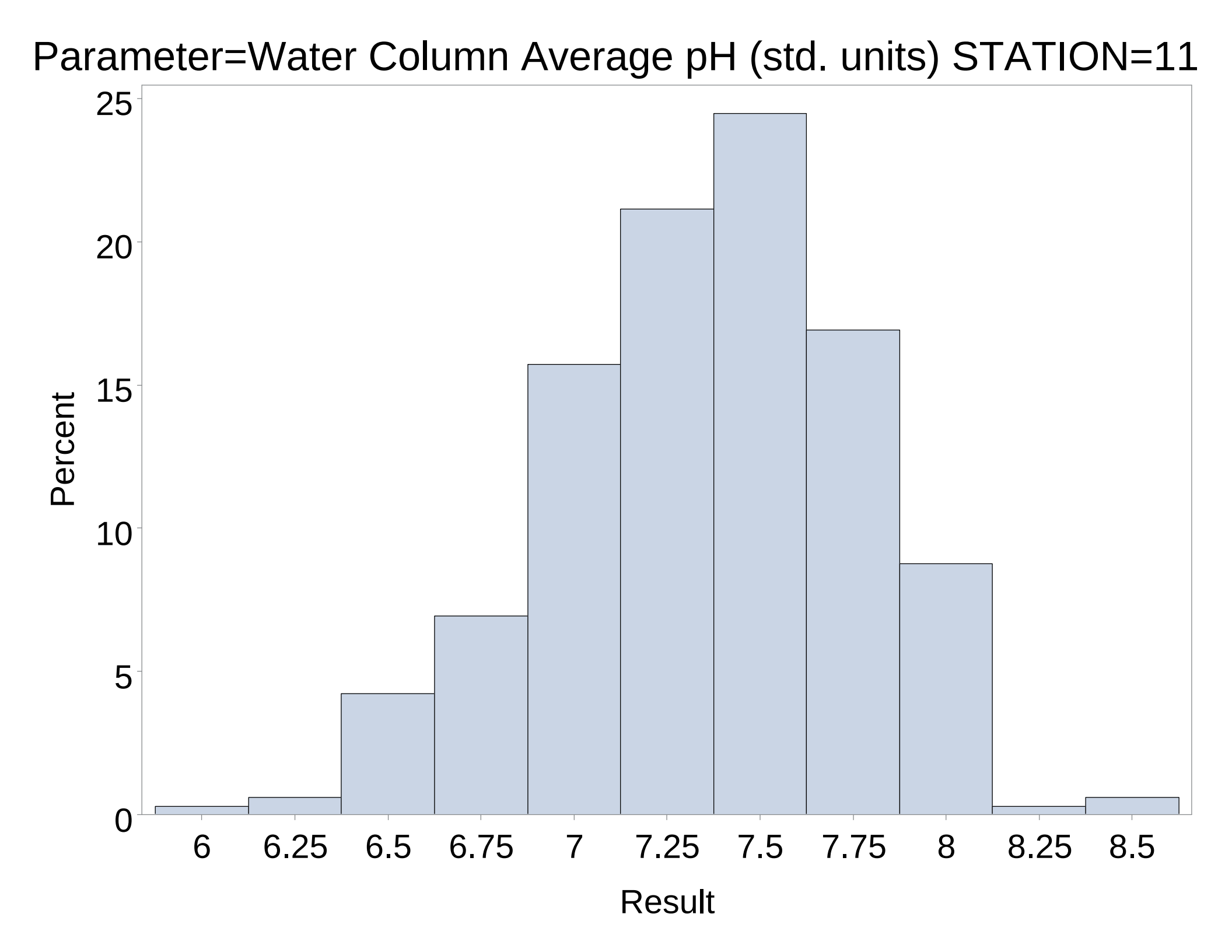
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	328.2323	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.56667
99%	8.10000
95%	7.93333
90%	7.85000
75% Q3	7.65000
50% Median	7.40000
25% Q1	7.10000
10%	6.81667
5%	6.60000
1%	6.40000
0% Min	5.90000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.90000	82458	8.10000	82351
6.13333	82337	8.10000	82450
6.33333	82336	8.12500	82460
6.40000	82544	8.50000	82418
6.40000	82335	8.56667	82417


Parameter=Water Column Average pH (std. units) STATION=11
Percent
25
20
15
10
5
0
6
6.25
6.5
6.75
7
7.25
7.5
7.75
8
8.25
8.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=12

Moments			
N	332	**Sum Weights**	332
Mean	7.25756658	**Sum Observations**	2409.5121
Std Deviation	0.3846856	**Variance**	0.14798301
Skewness	-0.6010955	**Kurtosis**	0.97913585
Uncorrected SS	17536.1769	**Corrected SS**	48.9823754
Coeff Variation	5.30047629	**Std Error Mean**	0.02111236

Basic Statistical Measures			
Location		**Variability**	
Mean	7.257567	**Std Deviation**	0.38469
Median	7.340000	**Variance**	0.14798
Mode	7.500000	**Range**	2.82500
		Interquartile Range	0.48571

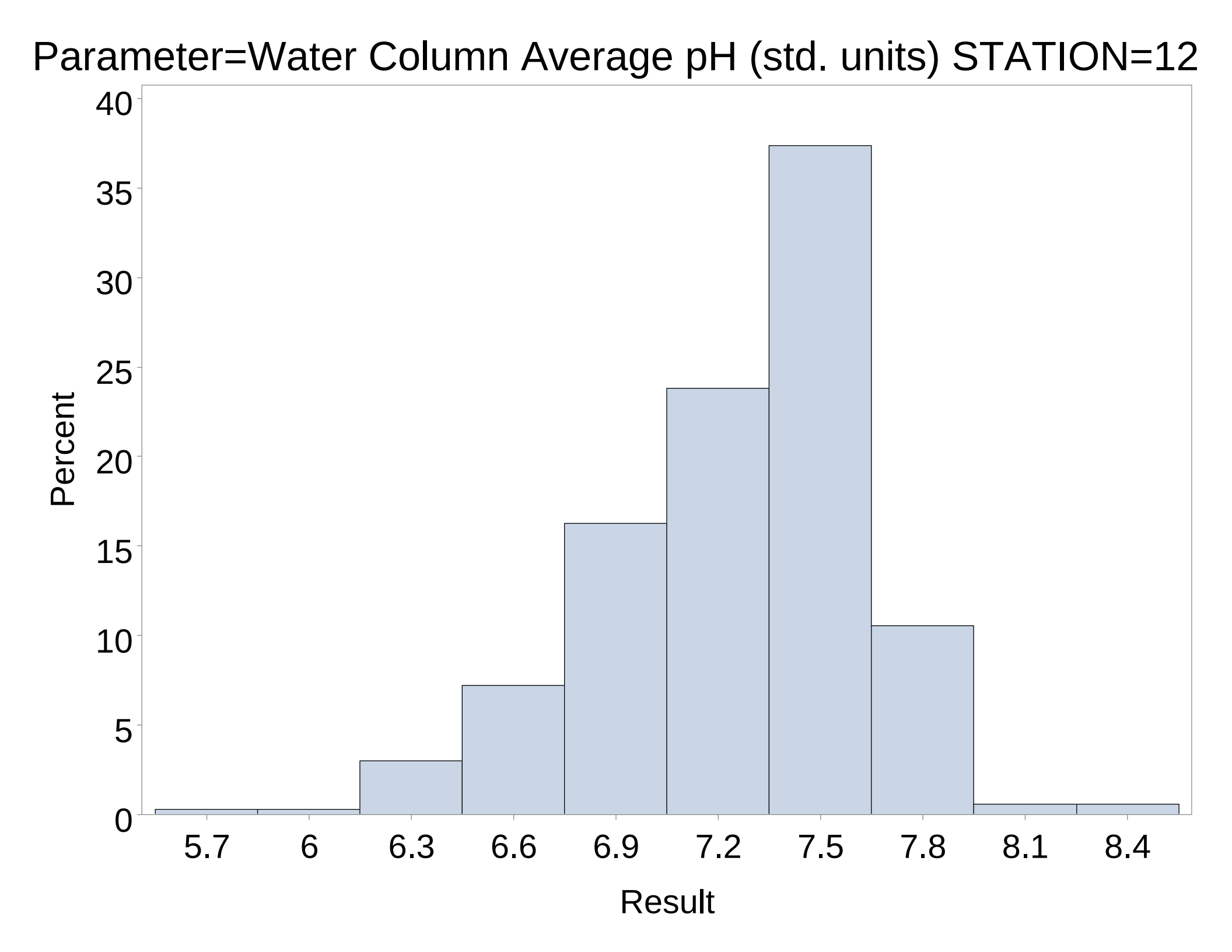
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	343.7591	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.50000
99%	7.96667
95%	7.75000
90%	7.67500
75% Q3	7.50000
50% Median	7.34000
25% Q1	7.01429
10%	6.72857
5%	6.50000
1%	6.30000
0% Min	5.67500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.67500	82790	7.94444	82685
6.05714	82668	7.96667	82825
6.25000	82667	8.20000	82944
6.30000	82789	8.42000	82749
6.30000	82629	8.50000	82750


Parameter=Water Column Average pH (std. units) STATION=12
Percent
40
35
30
25
20
15
10
5
0
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=13

Moments			
N	333	**Sum Weights**	333
Mean	7.27217825	**Sum Observations**	2421.63536
Std Deviation	0.39260008	**Variance**	0.15413482
Skewness	-0.5785913	**Kurtosis**	1.00952049
Uncorrected SS	17661.7367	**Corrected SS**	51.1727609
Coeff Variation	5.39865863	**Std Error Mean**	0.02151435

Basic Statistical Measures			
Location		**Variability**	
Mean	7.272178	**Std Deviation**	0.39260
Median	7.342857	**Variance**	0.15413
Mode	7.500000	**Range**	2.85714
		Interquartile Range	0.51111

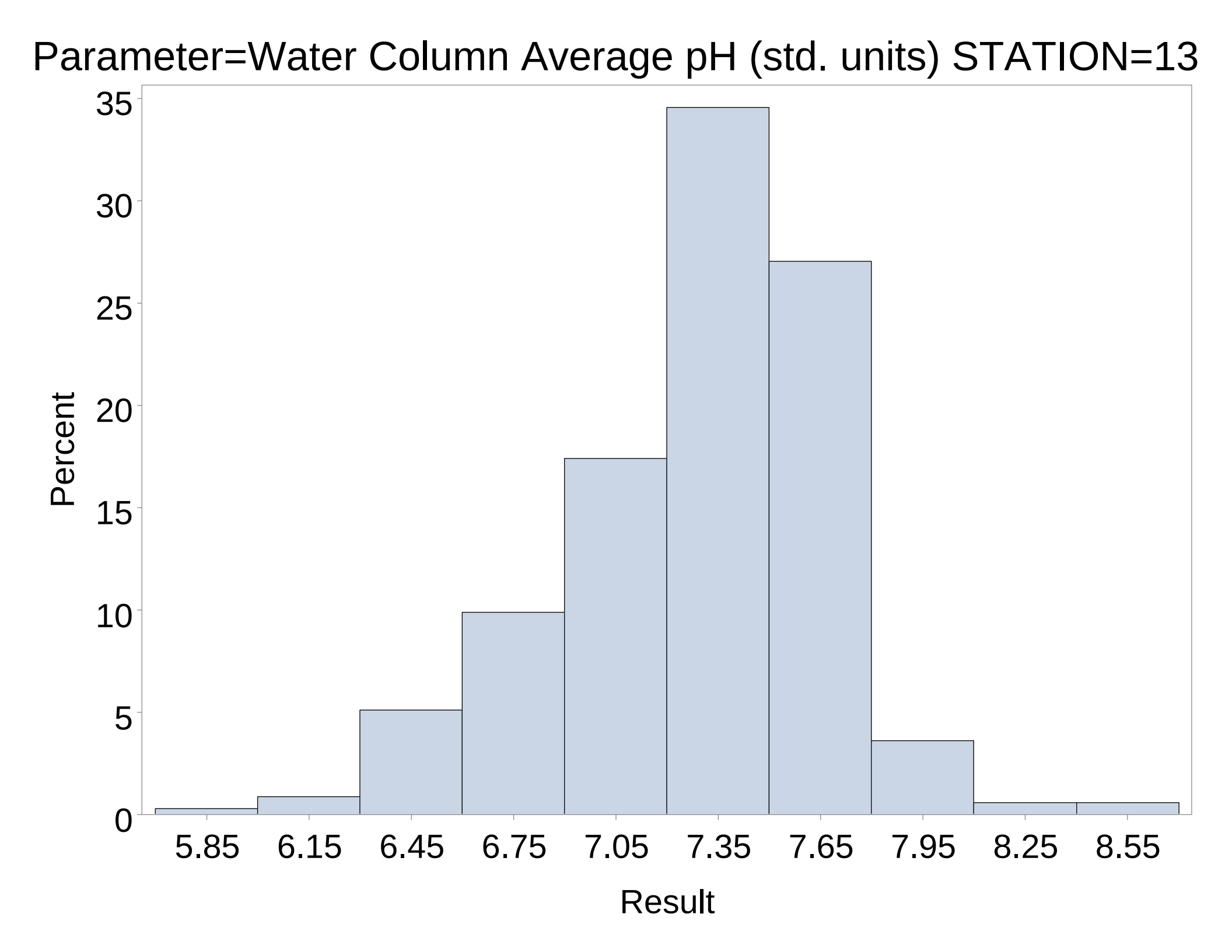
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	338.0152	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.60000
99%	8.12500
95%	7.78333
90%	7.68889
75% Q3	7.53333
50% Median	7.34286
25% Q1	7.02222
10%	6.71667
5%	6.51111
1%	6.20000
0% Min	5.74286

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.74286	83122	7.900	83083
6.02000	83000	8.125	83103
6.18333	82999	8.225	83277
6.20000	83108	8.480	83082
6.30000	83121	8.600	83081


Parameter=Water Column Average pH (std. units) STATION=13
Percent
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=14

Moments			
N	332	**Sum Weights**	332
Mean	7.29974207	**Sum Observations**	2423.51437
Std Deviation	0.39470528	**Variance**	0.15579226
Skewness	-0.1200943	**Kurtosis**	2.27569452
Uncorrected SS	17742.597	**Corrected SS**	51.5672384
Coeff Variation	5.40711274	**Std Error Mean**	0.02166227

Basic Statistical Measures			
Location		**Variability**	
Mean	7.299742	**Std Deviation**	0.39471
Median	7.340000	**Variance**	0.15579
Mode	7.500000	**Range**	3.35636
		Interquartile Range	0.45038

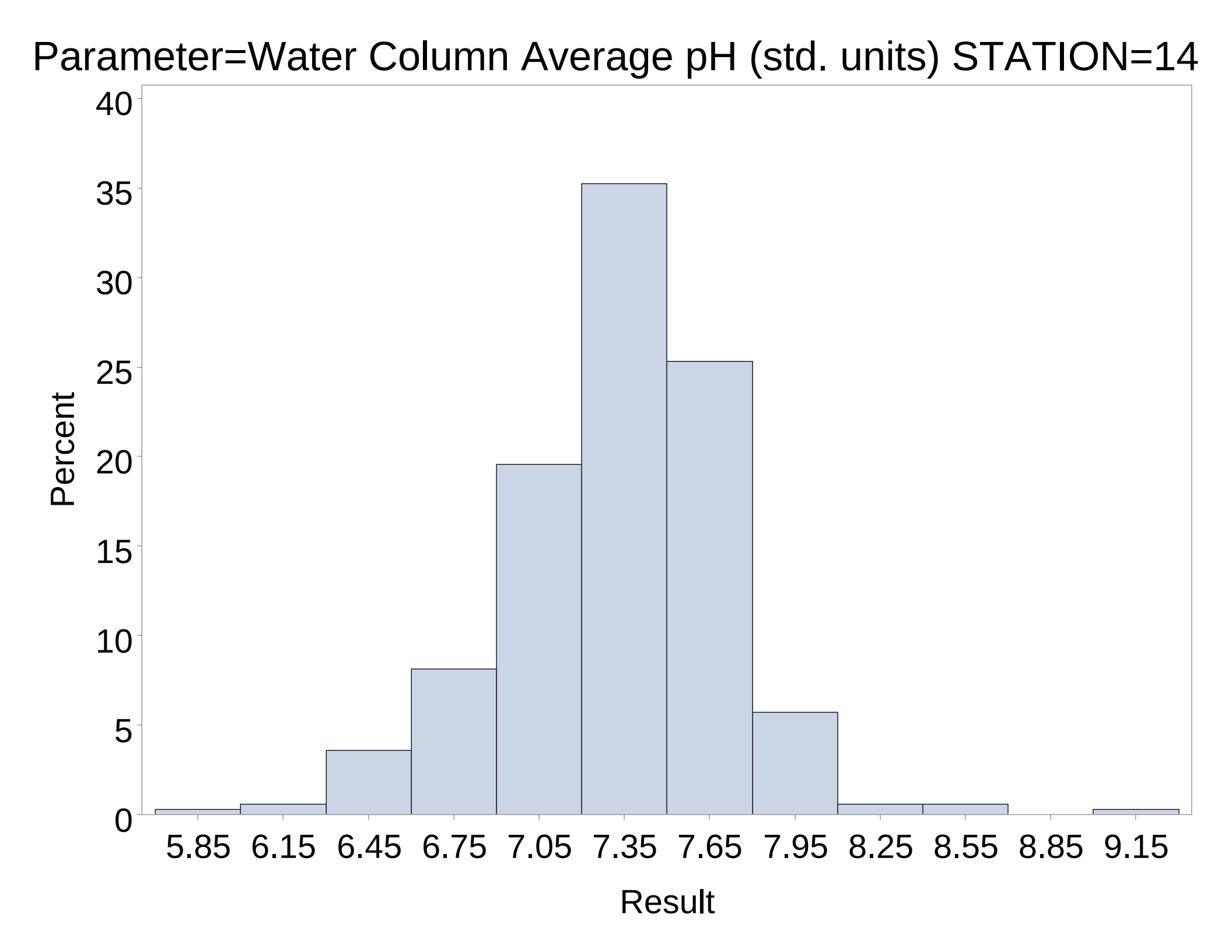
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	336.9796	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	9.13636
99%	8.33000
95%	7.82500
90%	7.70000
75% Q3	7.53333
50% Median	7.34000
25% Q1	7.08295
10%	6.76667
5%	6.60000
1%	6.34000
0% Min	5.78000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.78000	83453	8.22500	83609
6.04286	83332	8.33000	83435
6.20000	83331	8.60000	83413
6.34000	83541	8.66667	83414
6.36000	83294	9.13636	83441


Parameter=Water Column Average pH (std. units) STATION=14
Percent
40
35
30
25
20
15
10
5
0
5.85
6.15
6.45
6.75
7.05
7.35
7.65
7.95
8.25
8.55
8.85
9.15
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=15

Moments			
N	332	**Sum Weights**	332
Mean	7.31135028	**Sum Observations**	2427.36829
Std Deviation	0.37898018	**Variance**	0.14362598
Skewness	-0.5946935	**Kurtosis**	0.73229047
Uncorrected SS	17794.88	**Corrected SS**	47.5401979
Coeff Variation	5.1834499	**Std Error Mean**	0.02079924

Basic Statistical Measures			
Location		**Variability**	
Mean	7.311350	**Std Deviation**	0.37898
Median	7.375000	**Variance**	0.14363
Mode	7.500000	**Range**	2.68000
		Interquartile Range	0.47083

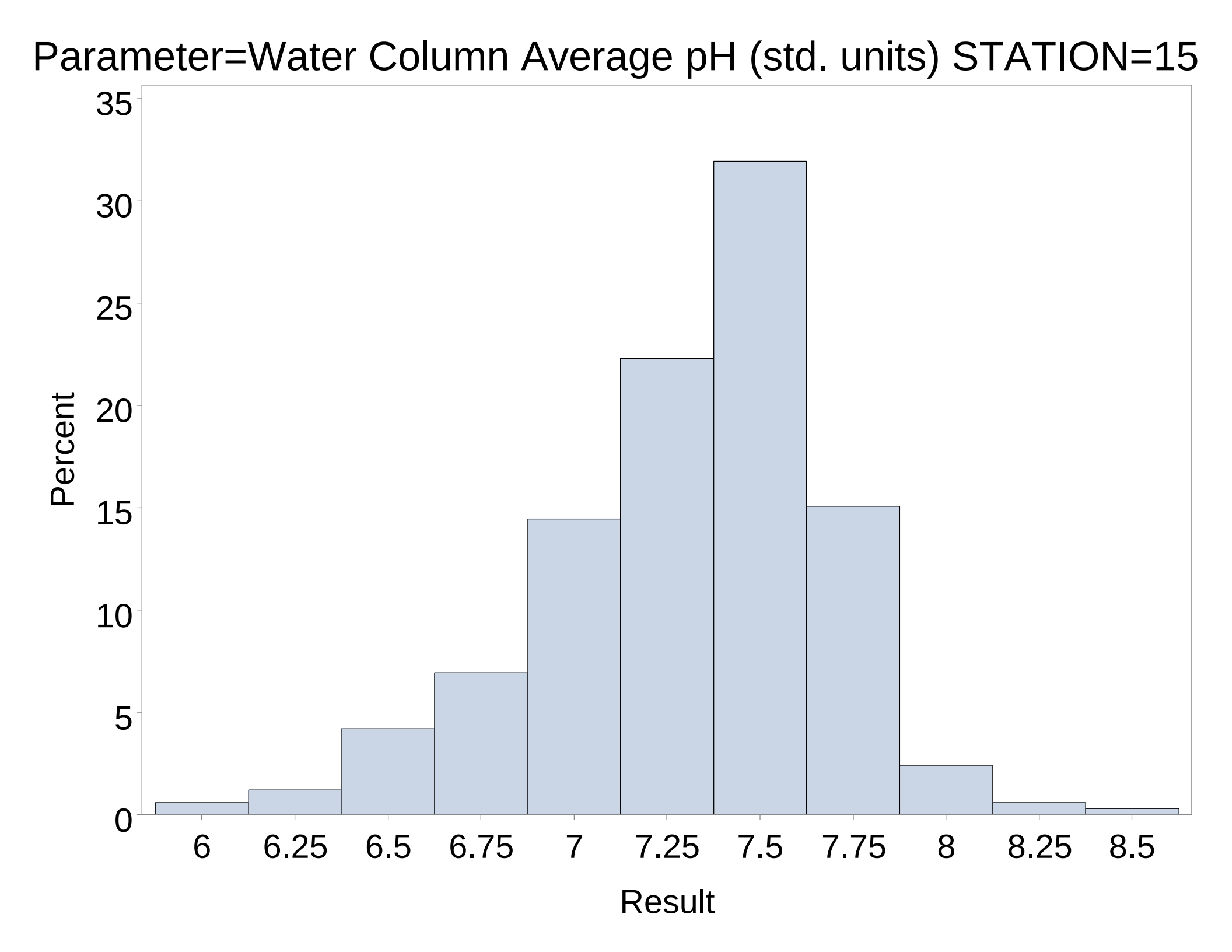
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	351.5201	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.60000
99%	8.10000
95%	7.81667
90%	7.70000
75% Q3	7.57083
50% Median	7.37500
25% Q1	7.10000
10%	6.80000
5%	6.60000
1%	6.33333
0% Min	5.92000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.92000	83785	8.02222	83861
6.10000	83665	8.10000	83821
6.33333	83675	8.14000	83767
6.33333	83664	8.17778	83941
6.33333	83626	8.60000	83746


Parameter=Water Column Average pH (std. units) STATION=15
Percent
35
30
25
20
15
10
5
0
6
6.25
6.5
6.75
7
7.25
7.5
7.75
8
8.25
8.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=16

Moments			
N	332	**Sum Weights**	332
Mean	7.39377059	**Sum Observations**	2454.73184
Std Deviation	0.42984364	**Variance**	0.18476556
Skewness	-0.5034397	**Kurtosis**	0.1445082
Uncorrected SS	18210.8815	**Corrected SS**	61.1573994
Coeff Variation	5.81359182	**Std Error Mean**	0.02359073

Basic Statistical Measures			
Location		**Variability**	
Mean	7.393771	**Std Deviation**	0.42984
Median	7.436667	**Variance**	0.18477
Mode	7.700000	**Range**	2.52667
		Interquartile Range	0.58000

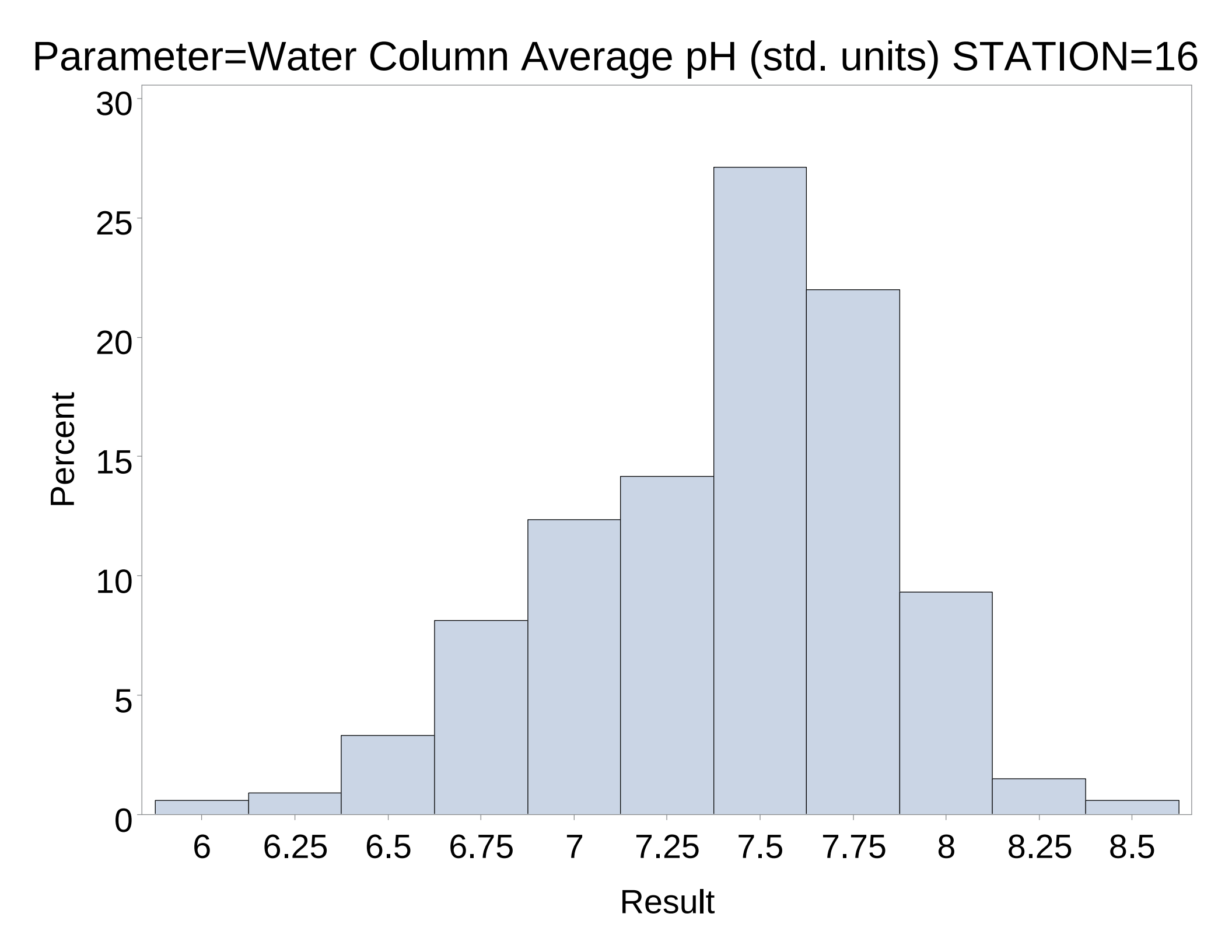
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	313.4184	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.56000
99%	8.22500
95%	7.98750
90%	7.90000
75% Q3	7.70000
50% Median	7.43667
25% Q1	7.12000
10%	6.80000
5%	6.62500
1%	6.20000
0% Min	6.03333

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.03333	83997	8.200	84153
6.12222	84007	8.225	84100
6.15556	83958	8.300	84136
6.20000	83984	8.500	84079
6.25714	83996	8.560	84107


Parameter=Water Column Average pH (std. units) STATION=16
Percent
30
25
20
15
10
5
0
6
6.25
6.5
6.75
7
7.25
7.5
7.75
8
8.25
8.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=17

Moments			
N	331	**Sum Weights**	331
Mean	7.43702093	**Sum Observations**	2461.65393
Std Deviation	0.44109091	**Variance**	0.19456119
Skewness	-0.4520059	**Kurtosis**	0.01017411
Uncorrected SS	18371.577	**Corrected SS**	64.2051925
Coeff Variation	5.93101609	**Std Error Mean**	0.02424455

Basic Statistical Measures			
Location		**Variability**	
Mean	7.437021	**Std Deviation**	0.44109
Median	7.500000	**Variance**	0.19456
Mode	7.800000	**Range**	2.62500
		Interquartile Range	0.64167

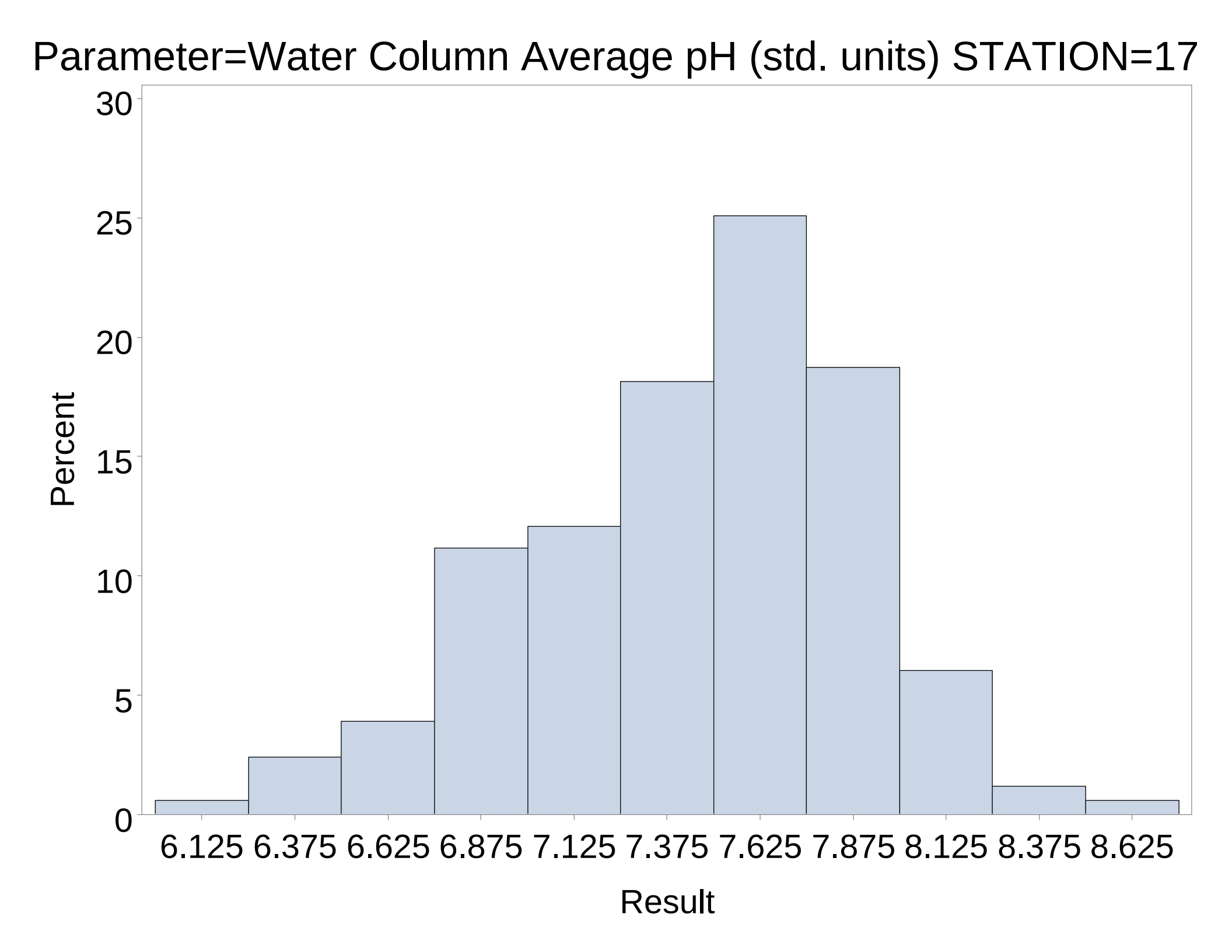
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	306.7502	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.65000
99%	8.30000
95%	8.10000
90%	7.90000
75% Q3	7.76667
50% Median	7.50000
25% Q1	7.12500
10%	6.80000
5%	6.66000
1%	6.30000
0% Min	6.02500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.02500	84329	8.25	84485
6.24000	84290	8.30	84524
6.28333	84339	8.40	84468
6.30000	84328	8.50	84411
6.40000	84450	8.65	84439


Parameter=Water Column Average pH (std. units) STATION=17
Percent
30
25
20
15
10
5
0
6.125
6.375
6.625
6.875
7.125
7.375
7.625
7.875
8.125
8.375
8.625
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	7.3756114	**Sum Observations**	2426.57615
Std Deviation	0.49719508	**Variance**	0.24720295
Skewness	-0.5763682	**Kurtosis**	0.65511044
Uncorrected SS	17978.5653	**Corrected SS**	81.0825683
Coeff Variation	6.74106942	**Std Error Mean**	0.02741125

Basic Statistical Measures			
Location		**Variability**	
Mean	7.375611	**Std Deviation**	0.49720
Median	7.471429	**Variance**	0.24720
Mode	7.700000	**Range**	3.23333
		Interquartile Range	0.63333

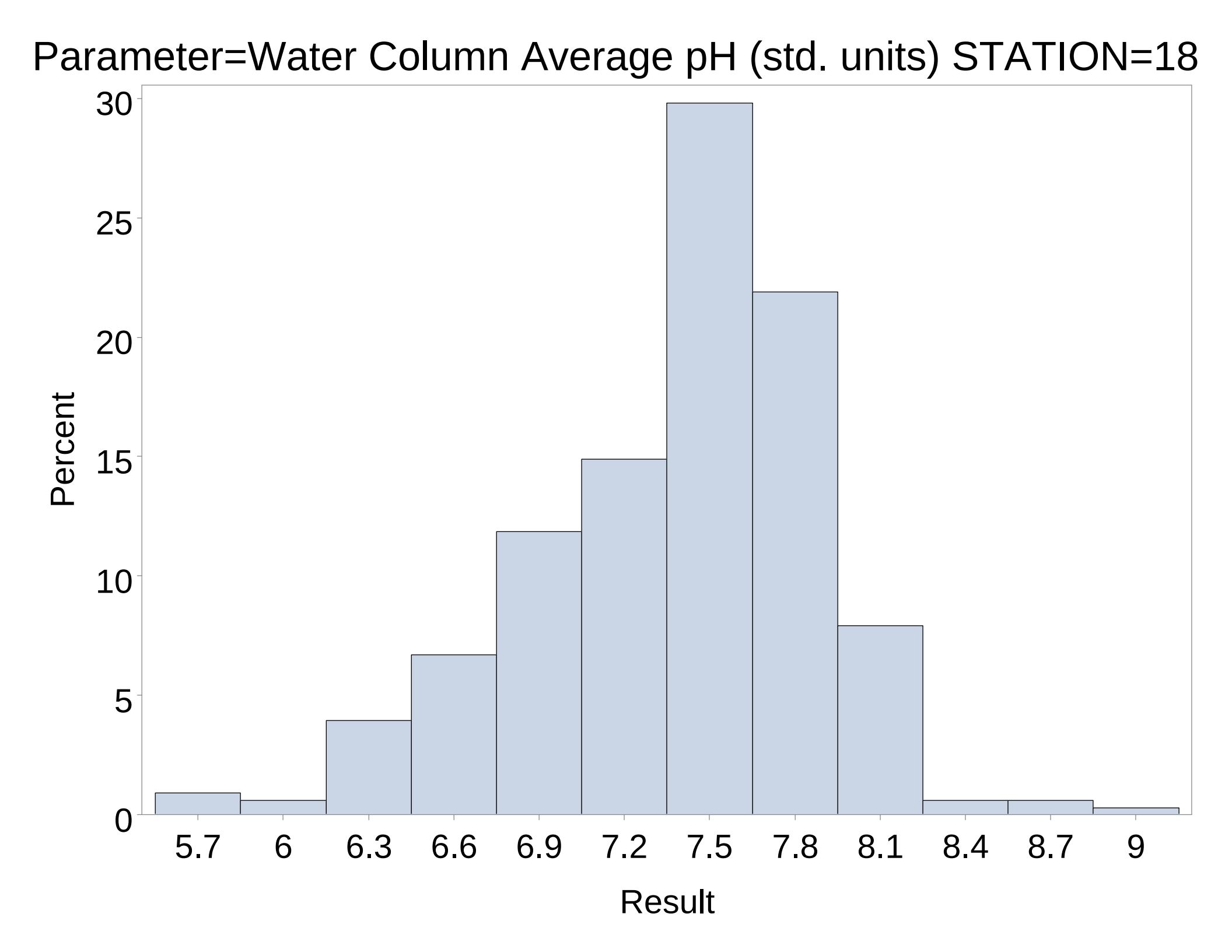
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	269.0724	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.90000
99%	8.25000
95%	8.05000
90%	7.92000
75% Q3	7.70000
50% Median	7.47143
25% Q1	7.06667
10%	6.70000
5%	6.40000
1%	6.06000
0% Min	5.66667

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.66667	84639	8.25000	84630
5.77500	84779	8.25000	84797
5.80000	84659	8.55000	84740
6.06000	84621	8.76667	84781
6.11667	84669	8.90000	84768


Parameter=Water Column Average pH (std. units) STATION=18
Percent
30
25
20
15
10
5
0
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
9
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=19

Moments			
N	331	**Sum Weights**	331
Mean	7.50586	**Sum Observations**	2484.43966
Std Deviation	0.47203579	**Variance**	0.22281779
Skewness	-0.6879499	**Kurtosis**	0.64408134
Uncorrected SS	18721.3861	**Corrected SS**	73.52987
Coeff Variation	6.28889682	**Std Error Mean**	0.02594543

Basic Statistical Measures			
Location		**Variability**	
Mean	7.505860	**Std Deviation**	0.47204
Median	7.600000	**Variance**	0.22282
Mode	7.700000	**Range**	2.96667
		Interquartile Range	0.55455

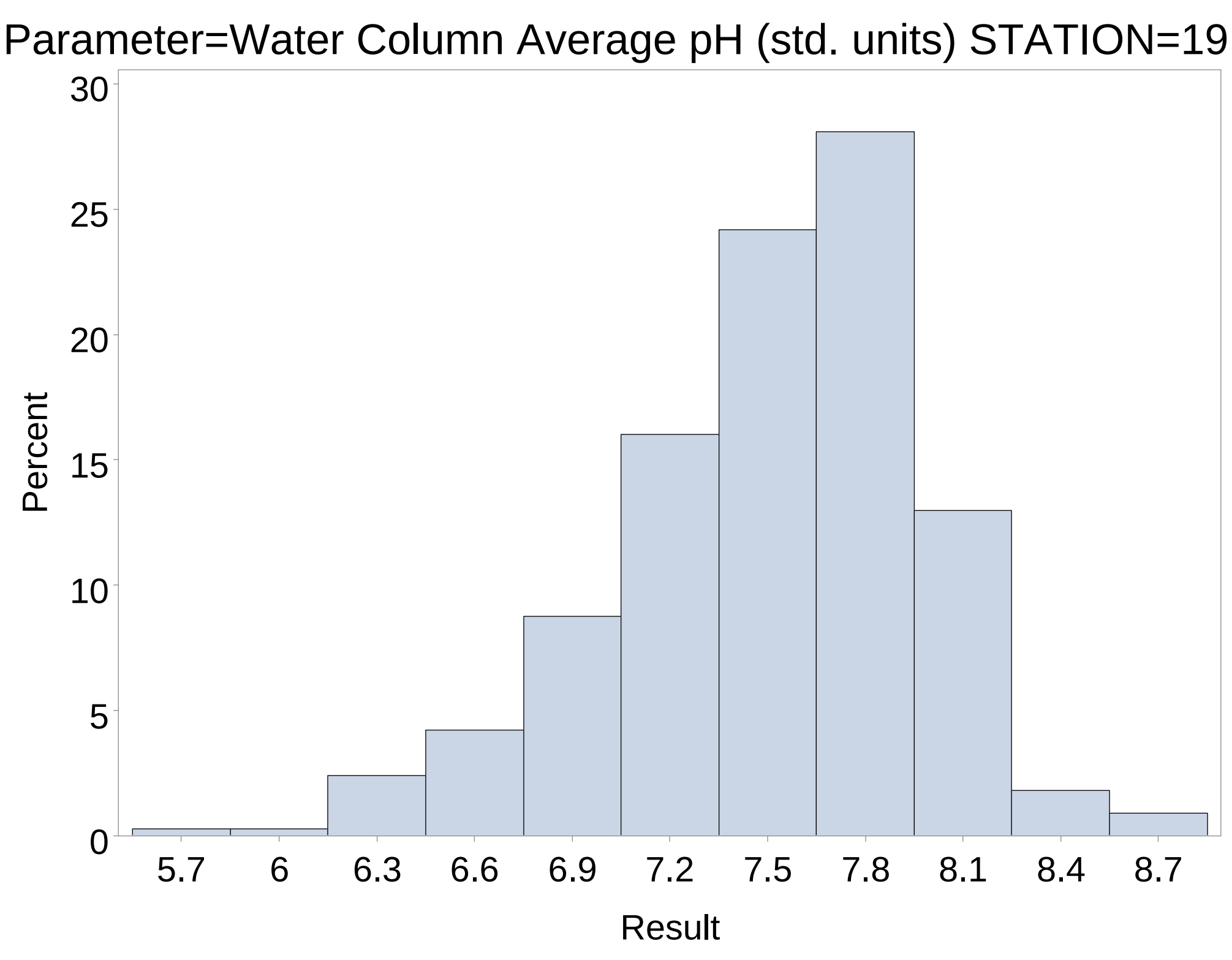
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	289.2941	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.70000
99%	8.46000
95%	8.12000
90%	8.00000
75% Q3	7.80000
50% Median	7.60000
25% Q1	7.24545
10%	6.85000
5%	6.61667
1%	6.28333
0% Min	5.73333

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
5.73333	84968	8.40000	85184
5.93333	84989	8.46000	85099
6.24000	84999	8.60000	85071
6.28333	85036	8.63333	85129
6.30000	85260	8.70000	85183


Parameter=Water Column Average pH (std. units) STATION=19
Percent
30
25
20
15
10
5
0
5.7
6
6.3
6.6
6.9
7.2
7.5
7.8
8.1
8.4
8.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	7.2	**Sum Observations**	7.2
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	51.84	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	7.200000	**Std Deviation**	.
Median	7.200000	**Variance**	.
Mode	7.200000	**Range**	0
		Interquartile Range	0

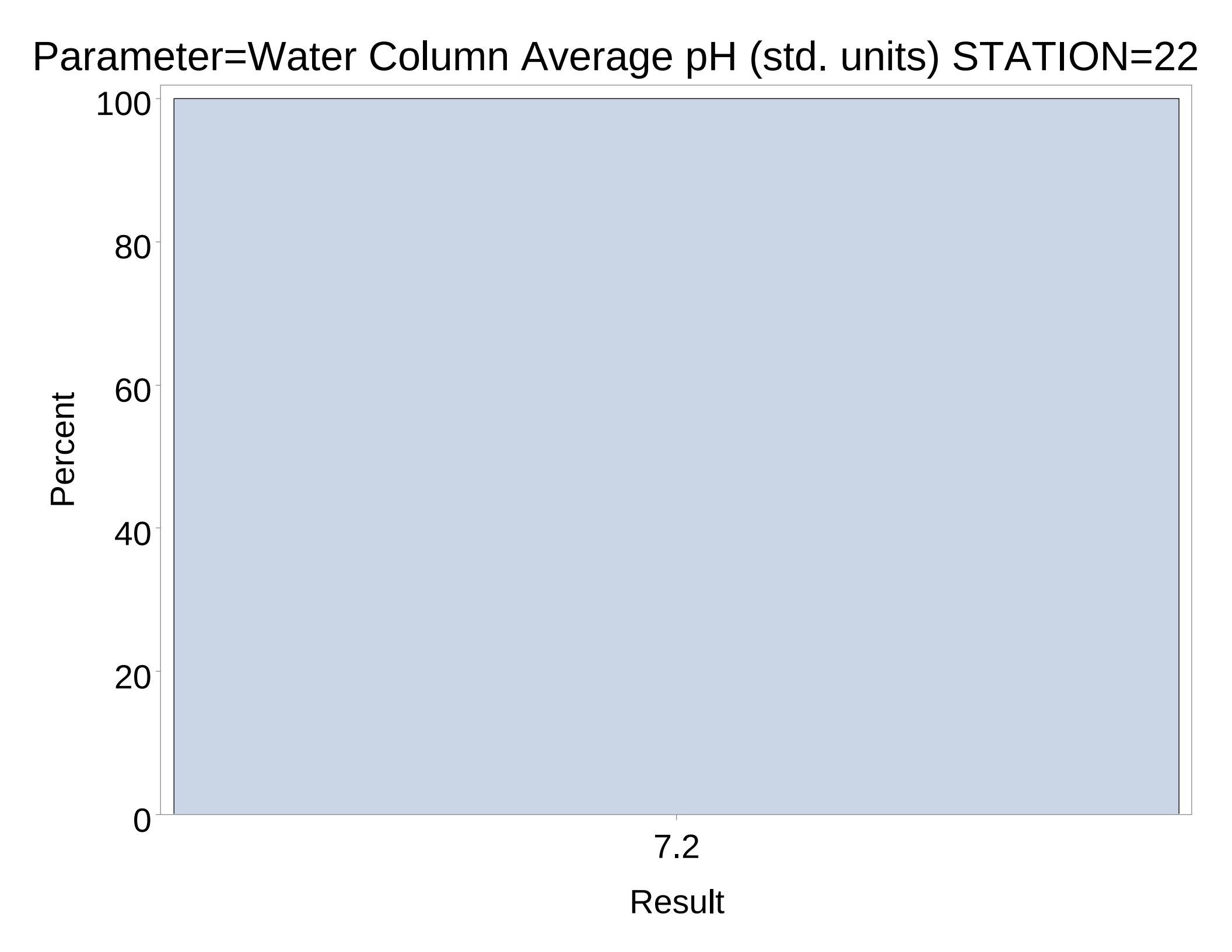
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.2
99%	7.2
95%	7.2
90%	7.2
75% Q3	7.2
50% Median	7.2
25% Q1	7.2
10%	7.2
5%	7.2
1%	7.2
0% Min	7.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average pH (std. units) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
7.2	85276	7.2	85276


Parameter=Water Column Average pH (std. units) STATION=22
100
80
60
40
20
0
Percent
7.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	0.27802985	**Sum Observations**	93.14
Std Deviation	0.32567893	**Variance**	0.10606677
Skewness	8.12964468	**Kurtosis**	95.5212486
Uncorrected SS	61.322	**Corrected SS**	35.4262997
Coeff Variation	117.138116	**Std Error Mean**	0.01779374

Basic Statistical Measures			
Location		**Variability**	
Mean	0.278030	**Std Deviation**	0.32568
Median	0.260000	**Variance**	0.10607
Mode	0.000000	**Range**	4.49000
		Interquartile Range	0.26000

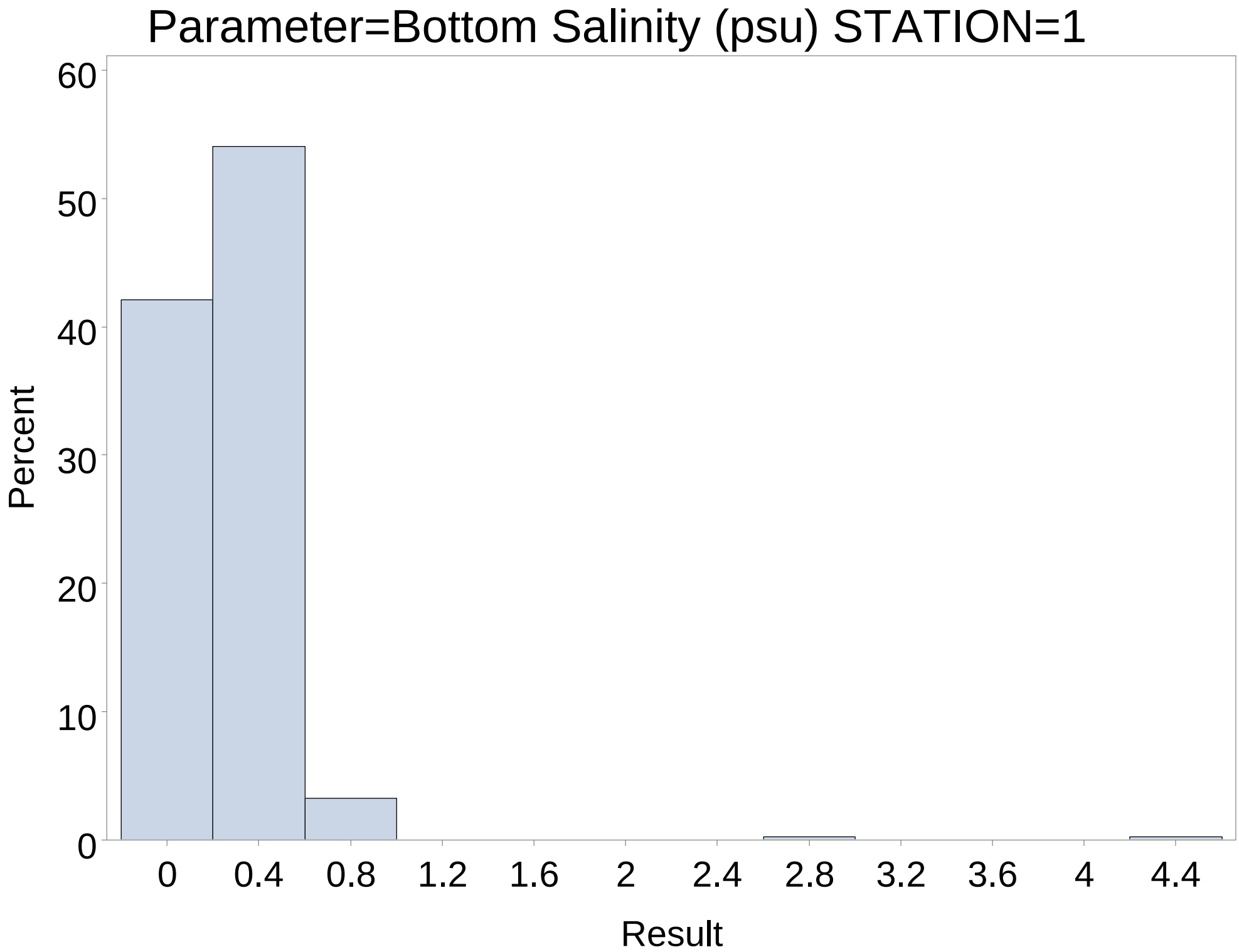
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.62515	**Pr > |t|**	<.0001
Sign	**M**	150.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	22725.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.49
99%	0.82
95%	0.56
90%	0.48
75% Q3	0.38
50% Median	0.26
25% Q1	0.12
10%	0.00
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	85404	0.79	85409
0	85403	0.82	85410
0	85402	0.92	85411
0	85381	2.91	85369
0	85380	4.49	85316


Parameter=Bottom Salinity (psu) STATION=1
Percent
60
50
40
30
20
10
0
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
4.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	0.38147147	**Sum Observations**	127.03
Std Deviation	0.21886742	**Variance**	0.04790295
Skewness	1.23181528	**Kurtosis**	7.31407525
Uncorrected SS	64.3621	**Corrected SS**	15.903779
Coeff Variation	57.3745192	**Std Error Mean**	0.01199386

Basic Statistical Measures			
Location		**Variability**	
Mean	0.381471	**Std Deviation**	0.21887
Median	0.380000	**Variance**	0.04790
Mode	0.000000	**Range**	1.95000
		Interquartile Range	0.27000

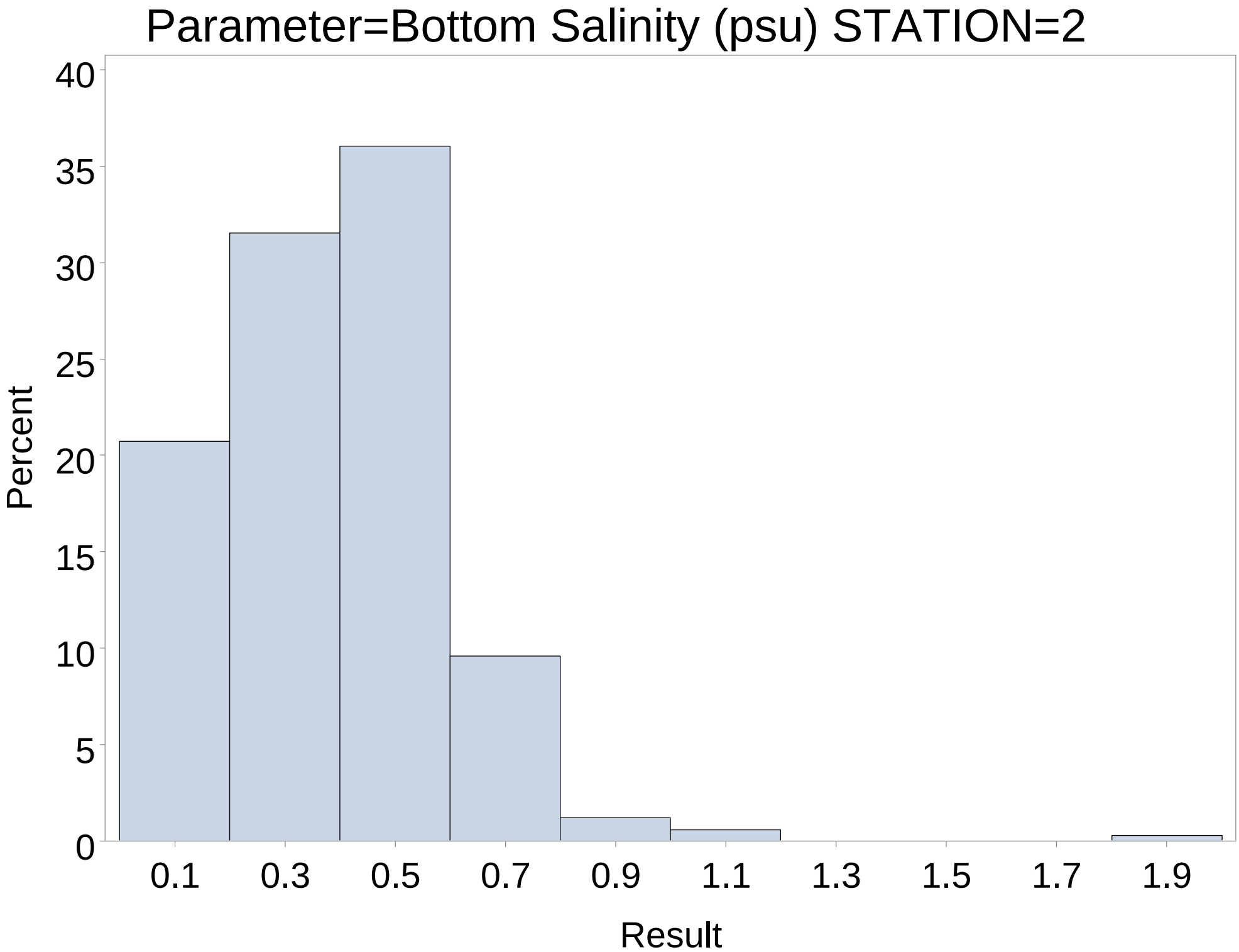
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.80556	**Pr > |t|**	<.0001
Sign	**M**	159	**Pr >= |M|**	<.0001
Signed Rank	**S**	25360.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.95
99%	0.99
95%	0.70
90%	0.61
75% Q3	0.51
50% Median	0.38
25% Q1	0.24
10%	0.12
5%	0.02
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	85738	0.92	85701
0	85737	0.99	85744
0	85714	1.02	85745
0	85702	1.08	85699
0	85695	1.95	85704


Parameter=Bottom Salinity (psu) STATION=2
Percent
40
35
30
25
20
15
10
5
0
0.1
0.3
0.5
0.7
0.9
1.1
1.3
1.5
1.7
1.9
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	0.30333333	**Sum Observations**	101.01
Std Deviation	0.37934709	**Variance**	0.14390422
Skewness	8.85518454	**Kurtosis**	99.0509512
Uncorrected SS	78.4159	**Corrected SS**	47.7762
Coeff Variation	125.059481	**Std Error Mean**	0.02078809

Basic Statistical Measures			
Location		**Variability**	
Mean	0.303333	**Std Deviation**	0.37935
Median	0.280000	**Variance**	0.14390
Mode	0.000000	**Range**	4.65000
		Interquartile Range	0.27000

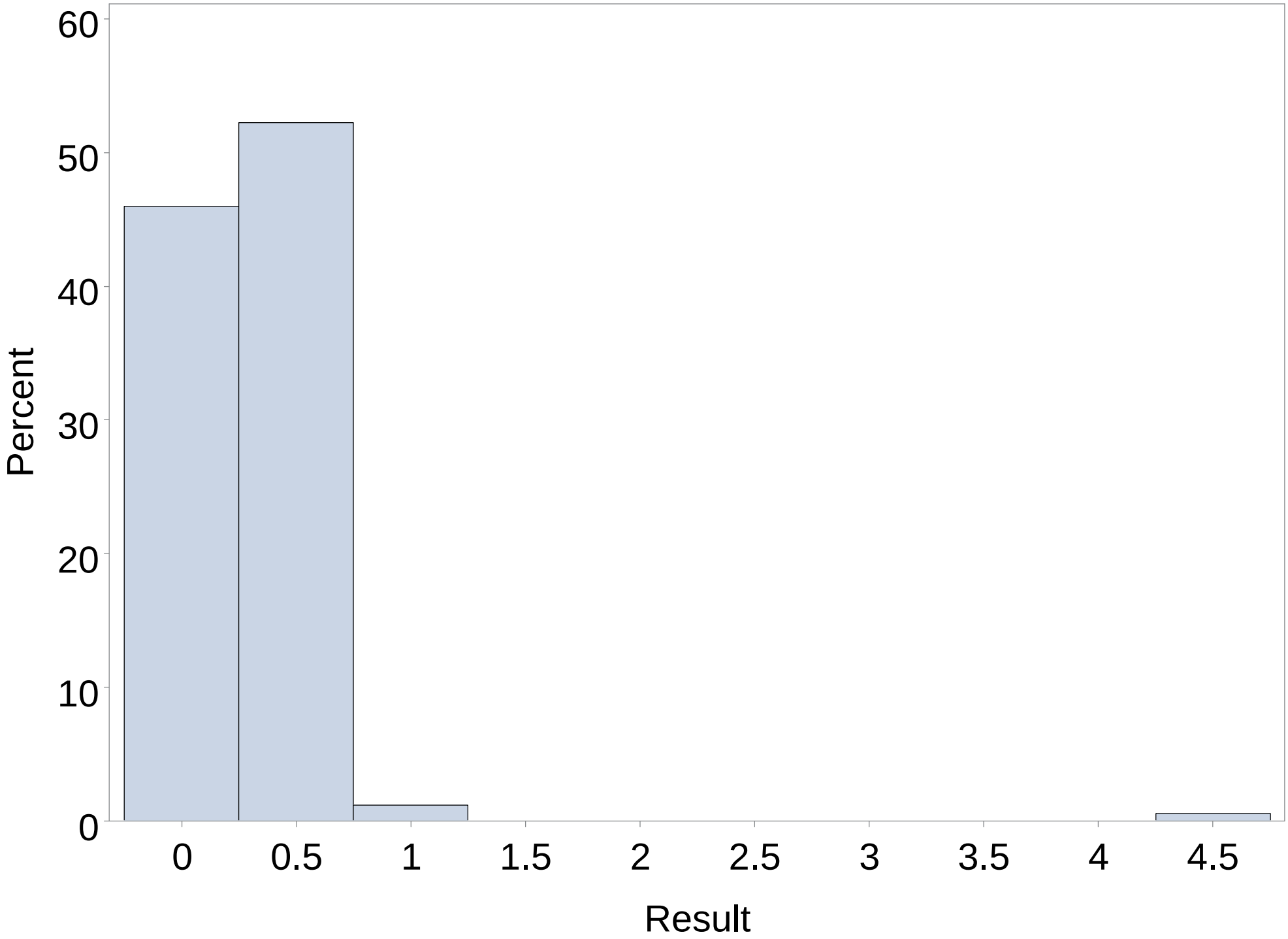
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.59169	**Pr > |t|**	<.0001
Sign	**M**	153	**Pr >= |M|**	<.0001
Signed Rank	**S**	23485.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.65
99%	0.80
95%	0.57
90%	0.50
75% Q3	0.41
50% Median	0.28
25% Q1	0.14
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	86070	0.79	86077
0	86049	0.80	86071
0	86036	0.87	86078
0	86031	4.57	86096
0	86029	4.65	85984


Parameter=Bottom Salinity (psu) STATION=3
Percent
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=4

Moments			
N	334	**Sum Weights**	334
Mean	2.43670659	**Sum Observations**	813.86
Std Deviation	3.94623231	**Variance**	15.5727495
Skewness	1.77985174	**Kurtosis**	2.22695342
Uncorrected SS	7168.8636	**Corrected SS**	5185.72558
Coeff Variation	161.949425	**Std Error Mean**	0.21592823

Basic Statistical Measures			
Location		**Variability**	
Mean	2.436707	**Std Deviation**	3.94623
Median	0.330000	**Variance**	15.57275
Mode	0.000000	**Range**	18.57000
		Interquartile Range	3.24000

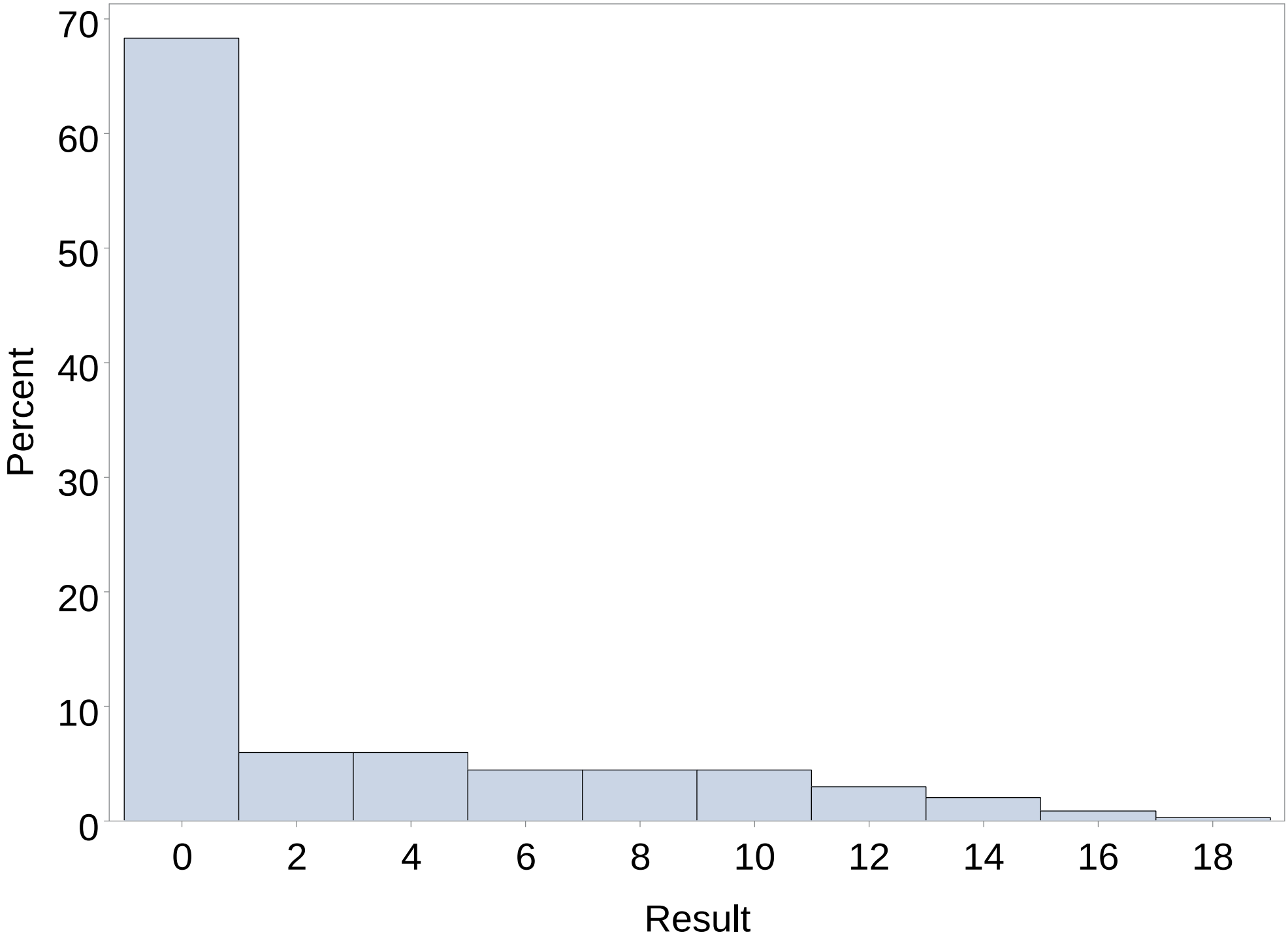
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.2848	**Pr > |t|**	<.0001
Sign	**M**	152	**Pr >= |M|**	<.0001
Signed Rank	**S**	23180	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.57
99%	15.06
95%	11.61
90%	9.12
75% Q3	3.39
50% Median	0.33
25% Q1	0.15
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	86405	14.56	86532
0	86404	15.06	86592
0	86382	15.57	86389
0	86380	16.51	86390
0	86369	18.57	86496


Parameter=Bottom Salinity (psu) STATION=4
Percent
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	2.64931343	**Sum Observations**	887.52
Std Deviation	4.1206504	**Variance**	16.9797597
Skewness	1.83888282	**Kurtosis**	2.64775889
Uncorrected SS	8022.5584	**Corrected SS**	5671.23974
Coeff Variation	155.536538	**Std Error Mean**	0.22513518

Basic Statistical Measures			
Location		**Variability**	
Mean	2.649313	**Std Deviation**	4.12065
Median	0.440000	**Variance**	16.97976
Mode	0.000000	**Range**	19.89000
		Interquartile Range	3.45000

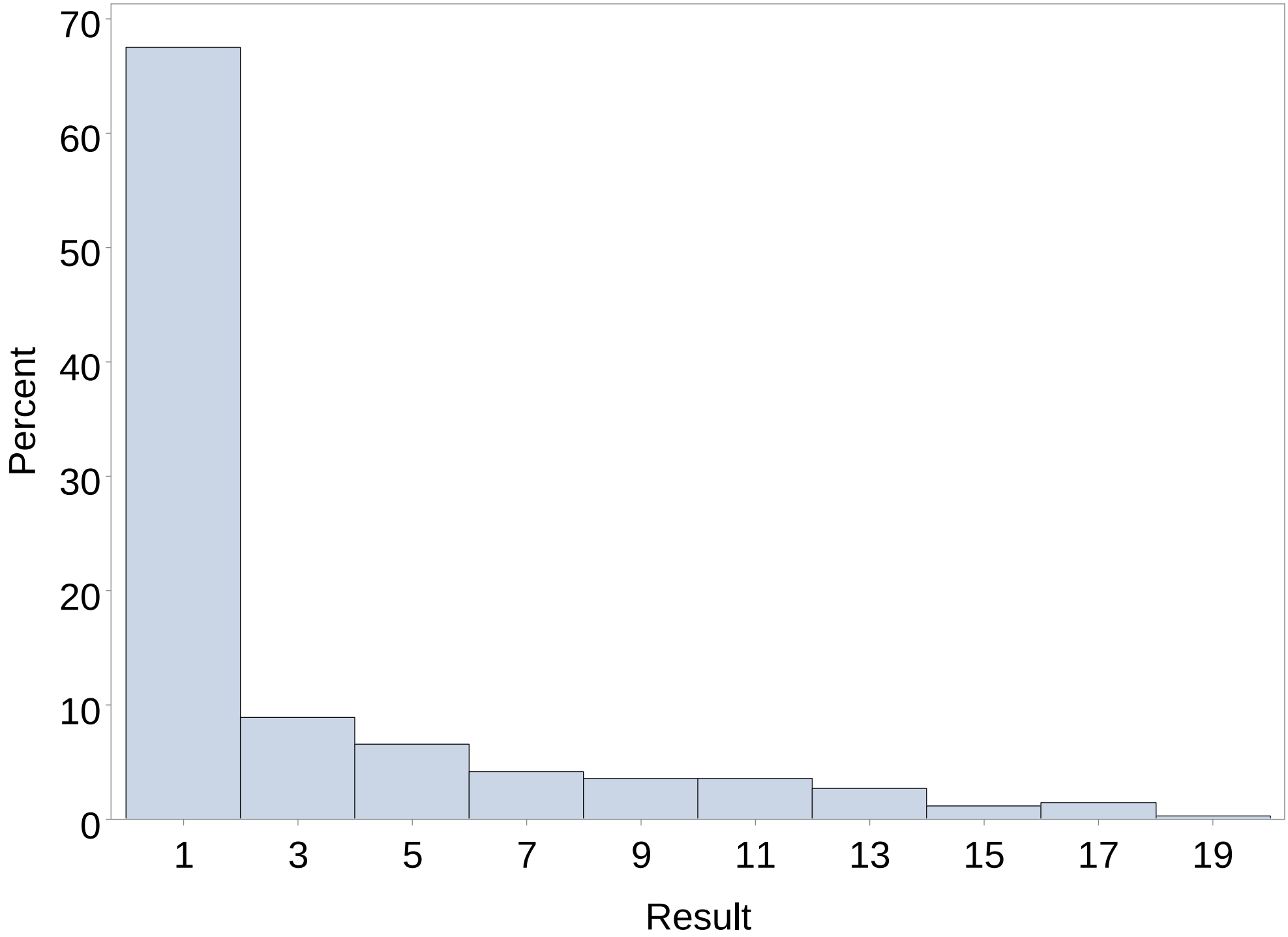
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.76766	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.89
99%	16.25
95%	12.38
90%	9.06
75% Q3	3.61
50% Median	0.44
25% Q1	0.16
10%	0.01
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	86740	16.22	86867
0	86739	16.25	86725
0	86717	16.46	86724
0	86716	16.65	86927
0	86715	19.89	86831


Parameter=Bottom Salinity (psu) STATION=5
Percent
70
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	3.83936937	**Sum Observations**	1278.51
Std Deviation	5.13052651	**Variance**	26.3223023
Skewness	1.40634276	**Kurtosis**	1.01979269
Uncorrected SS	13647.6765	**Corrected SS**	8739.00437
Coeff Variation	133.629407	**Std Error Mean**	0.28115112

Basic Statistical Measures			
Location		**Variability**	
Mean	3.839369	**Std Deviation**	5.13053
Median	0.890000	**Variance**	26.32230
Mode	0.000000	**Range**	21.19000
		Interquartile Range	6.25000

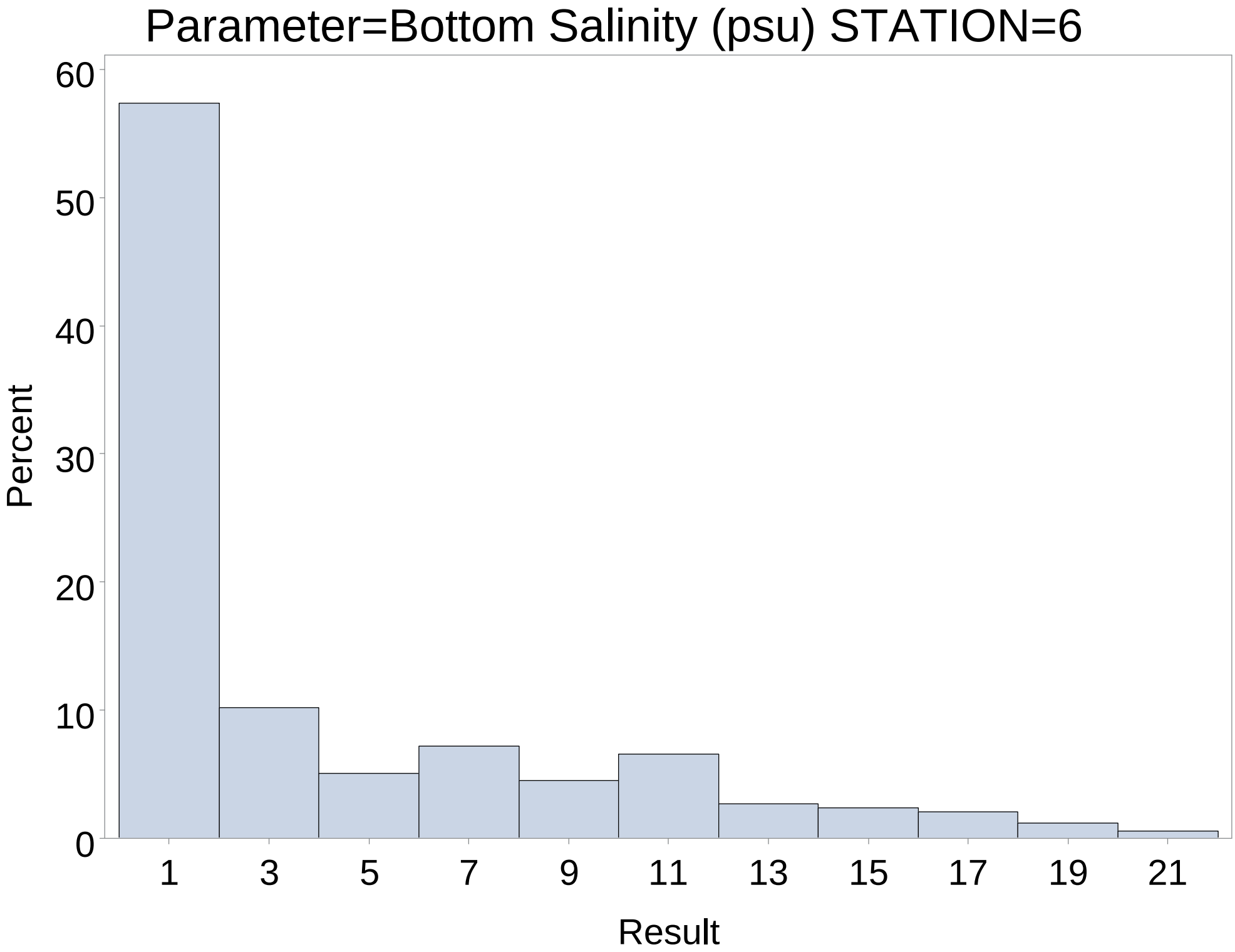
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.65589	**Pr > |t|**	<.0001
Sign	**M**	154	**Pr >= |M|**	<.0001
Signed Rank	**S**	23793	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	21.19
99%	18.99
95%	15.40
90%	11.64
75% Q3	6.44
50% Median	0.89
25% Q1	0.19
10%	0.04
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	87074	18.14	87058
0	87073	18.99	87200
0	87051	19.96	87153
0	87050	21.15	87164
0	87049	21.19	87152


Parameter=Bottom Salinity (psu) STATION=6
Percent
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
21
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	6.24912913	**Sum Observations**	2080.96
Std Deviation	6.47386624	**Variance**	41.9109441
Skewness	0.88912704	**Kurtosis**	-0.2345029
Uncorrected SS	26918.6212	**Corrected SS**	13914.4334
Coeff Variation	103.596295	**Std Error Mean**	0.35476568

Basic Statistical Measures			
Location		**Variability**	
Mean	6.249129	**Std Deviation**	6.47387
Median	4.360000	**Variance**	41.91094
Mode	0.000000	**Range**	26.43000
		Interquartile Range	10.09000

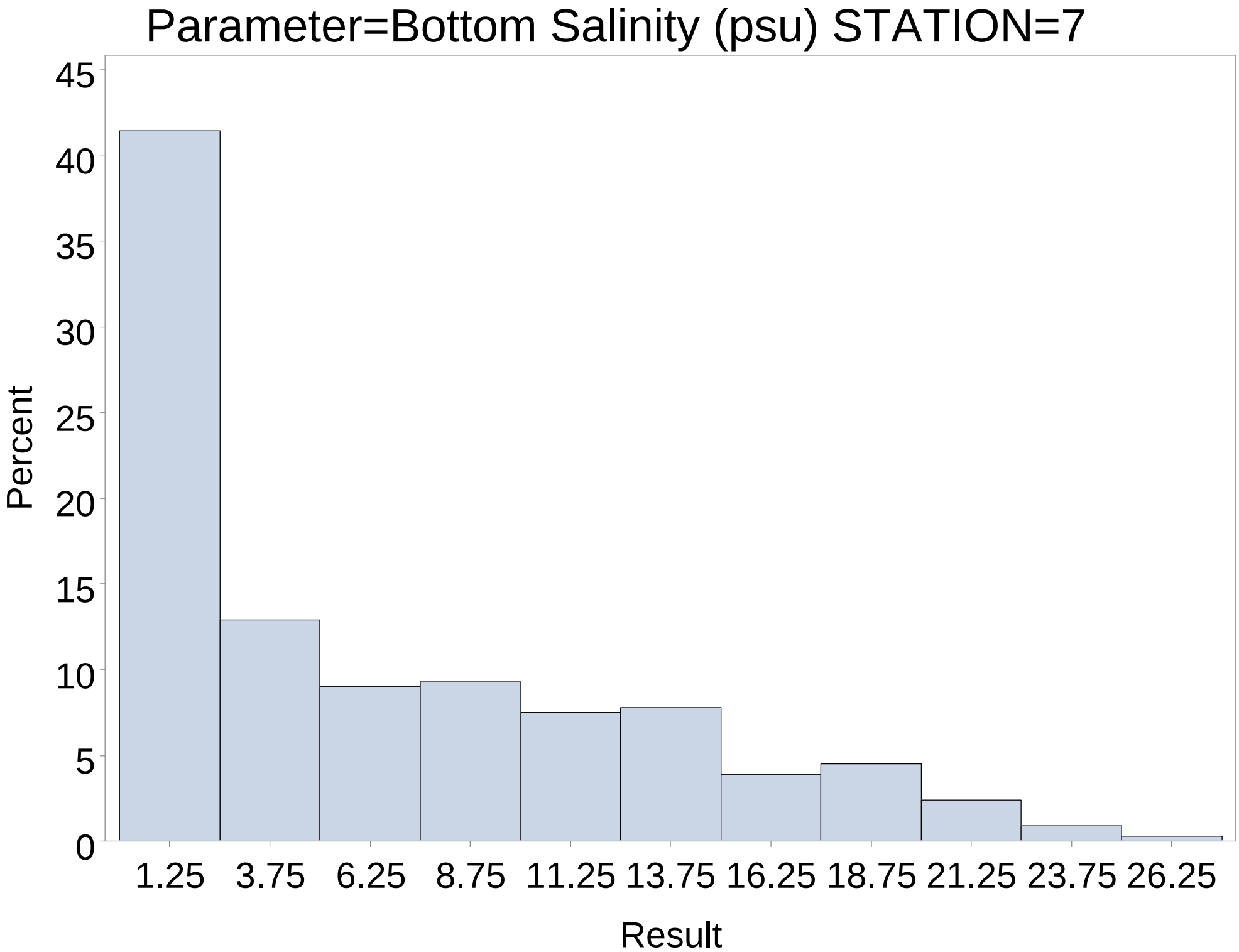
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.61481	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.43
99%	22.60
95%	19.56
90%	16.21
75% Q3	10.40
50% Median	4.36
25% Q1	0.31
10%	0.09
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	87407	21.83	87474
0	87406	22.60	87292
0	87384	23.67	87486
0	87383	24.52	87497
0	87382	26.43	87485


Parameter=Bottom Salinity (psu) STATION=7
Percent
45
40
35
30
25
20
15
10
5
0
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
26.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	7.50525526	**Sum Observations**	2499.25
Std Deviation	7.14866006	**Variance**	51.1033407
Skewness	0.67917561	**Kurtosis**	-0.6275318
Uncorrected SS	35723.8183	**Corrected SS**	16966.3091
Coeff Variation	95.2487266	**Std Error Mean**	0.39174416

Basic Statistical Measures			
Location		**Variability**	
Mean	7.505255	**Std Deviation**	7.14866
Median	5.640000	**Variance**	51.10334
Mode	0.000000	**Range**	29.51000
		Interquartile Range	12.41000

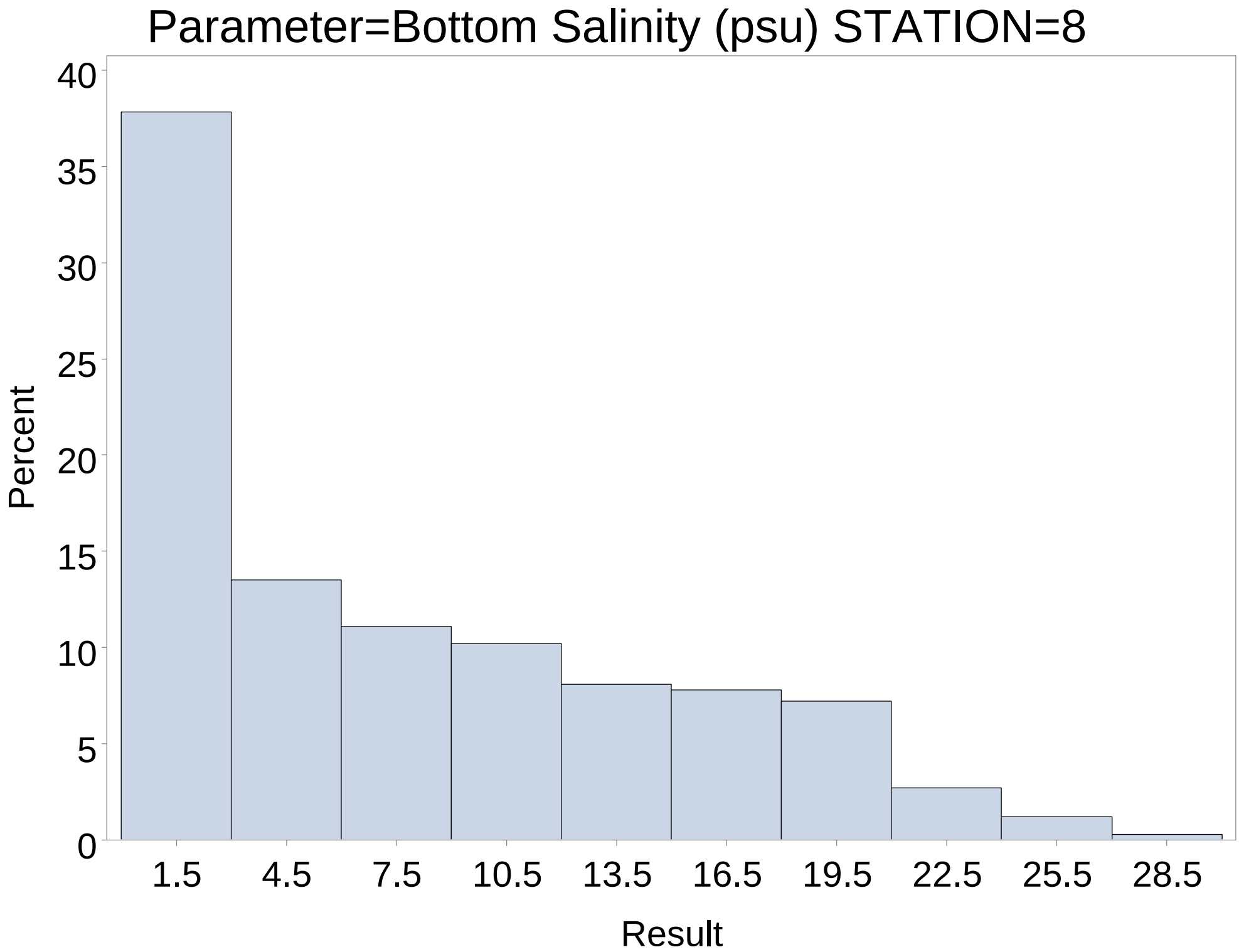
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.15856	**Pr > |t|**	<.0001
Sign	**M**	153	**Pr >= |M|**	<.0001
Signed Rank	**S**	23485.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.51
99%	24.59
95%	20.70
90%	18.27
75% Q3	12.74
50% Median	5.64
25% Q1	0.33
10%	0.08
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	87740	24.18	87807
0	87739	24.59	87625
0	87717	25.50	87819
0	87716	25.70	87830
0	87715	29.51	87818


Parameter=Bottom Salinity (psu) STATION=8
Percent
40
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	11.134024	**Sum Observations**	3707.63
Std Deviation	7.84666759	**Variance**	61.5701922
Skewness	0.07093708	**Kurtosis**	-0.9750689
Uncorrected SS	61722.1453	**Corrected SS**	20441.3038
Coeff Variation	70.4746781	**Std Error Mean**	0.42999473

Basic Statistical Measures			
Location		**Variability**	
Mean	11.13402	**Std Deviation**	7.84667
Median	11.80000	**Variance**	61.57019
Mode	0.00000	**Range**	33.56000
		Interquartile Range	14.26000

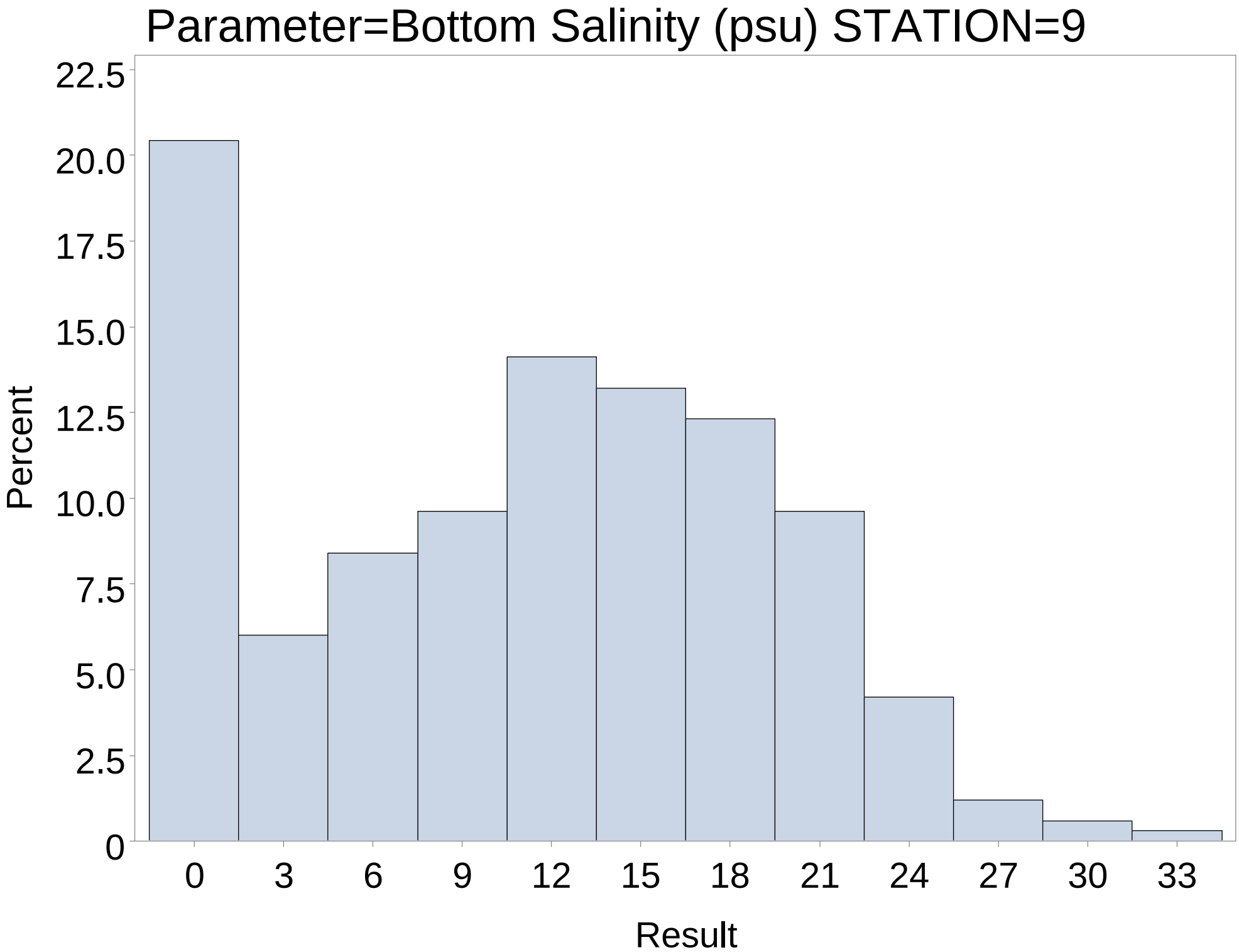
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.8934	**Pr > |t|**	<.0001
Sign	**M**	159.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	25520	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.56
99%	27.49
95%	22.91
90%	21.17
75% Q3	17.91
50% Median	11.80
25% Q1	3.65
10%	0.14
5%	0.05
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	88073	27.20	88163
0	88050	27.49	88152
0	88037	28.89	88080
0	88032	29.12	87958
0	88031	33.56	88151


Parameter=Bottom Salinity (psu) STATION=9
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
0
3
6
9
12
15
18
21
24
27
30
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=10

Moments			
N	335	**Sum Weights**	335
Mean	1.79146269	**Sum Observations**	600.14
Std Deviation	3.52512563	**Variance**	12.4265107
Skewness	3.12460442	**Kurtosis**	13.7232636
Uncorrected SS	5225.583	**Corrected SS**	4150.45458
Coeff Variation	196.773601	**Std Error Mean**	0.19259819

Basic Statistical Measures			
Location		**Variability**	
Mean	1.791463	**Std Deviation**	3.52513
Median	0.300000	**Variance**	12.42651
Mode	0.000000	**Range**	29.40000
		Interquartile Range	0.76000

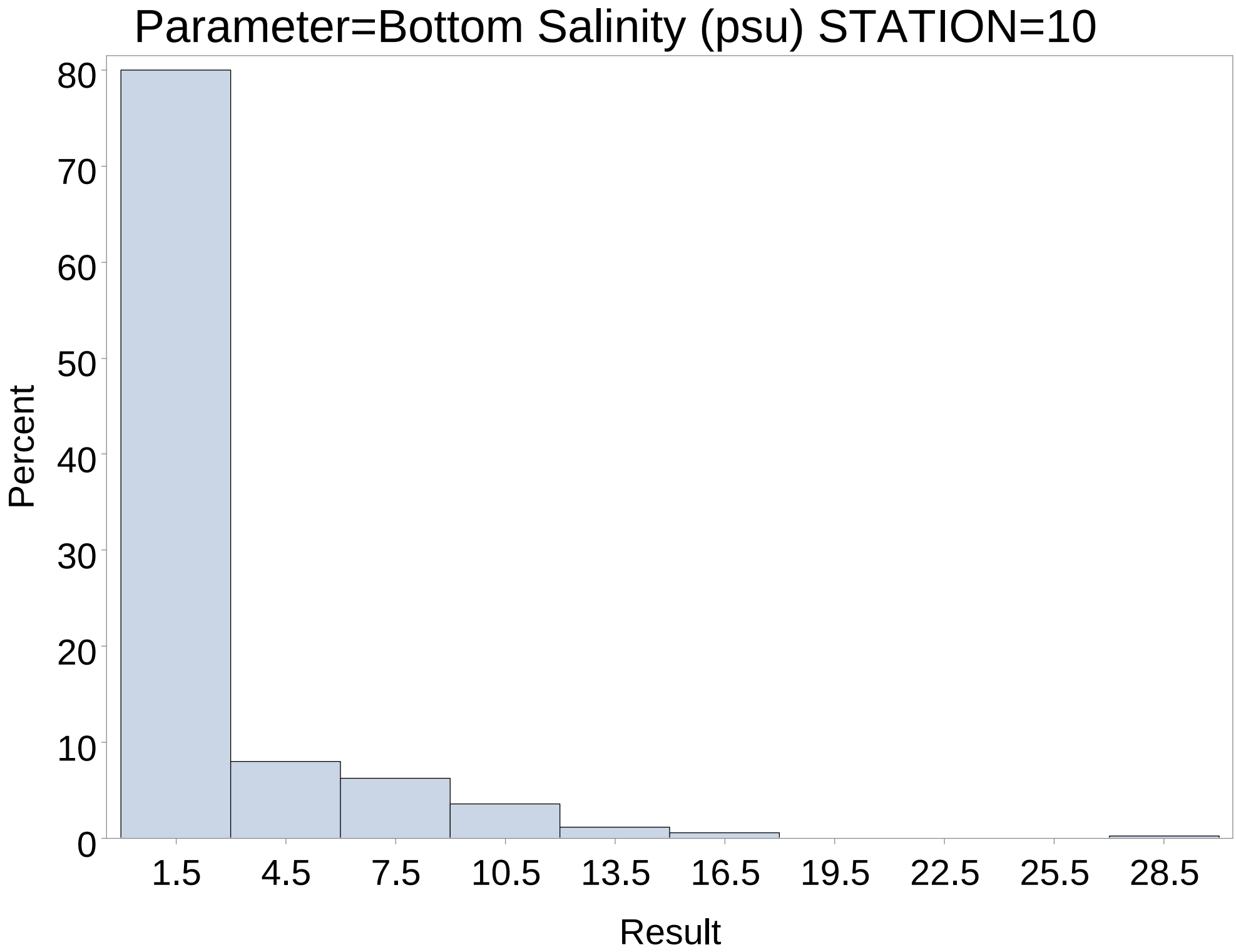
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.301555	**Pr > |t|**	<.0001
Sign	**M**	152	**Pr >= |M|**	<.0001
Signed Rank	**S**	23180	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.40
99%	14.22
95%	9.82
90%	6.91
75% Q3	0.90
50% Median	0.30
25% Q1	0.14
10%	0.01
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	88407	13.55	88391
0	88406	14.22	88594
0	88384	16.44	88392
0	88383	16.71	88498
0	88382	29.40	88487


Parameter=Bottom Salinity (psu) STATION=10
Percent
80
70
60
50
40
30
20
10
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	1.96496988	**Sum Observations**	652.37
Std Deviation	3.55462743	**Variance**	12.6353761
Skewness	2.11975019	**Kurtosis**	3.70009444
Uncorrected SS	5464.1969	**Corrected SS**	4182.3095
Coeff Variation	180.899843	**Std Error Mean**	0.19508552

Basic Statistical Measures			
Location		**Variability**	
Mean	1.964970	**Std Deviation**	3.55463
Median	0.310000	**Variance**	12.63538
Mode	0.000000	**Range**	17.86000
		Interquartile Range	1.07000

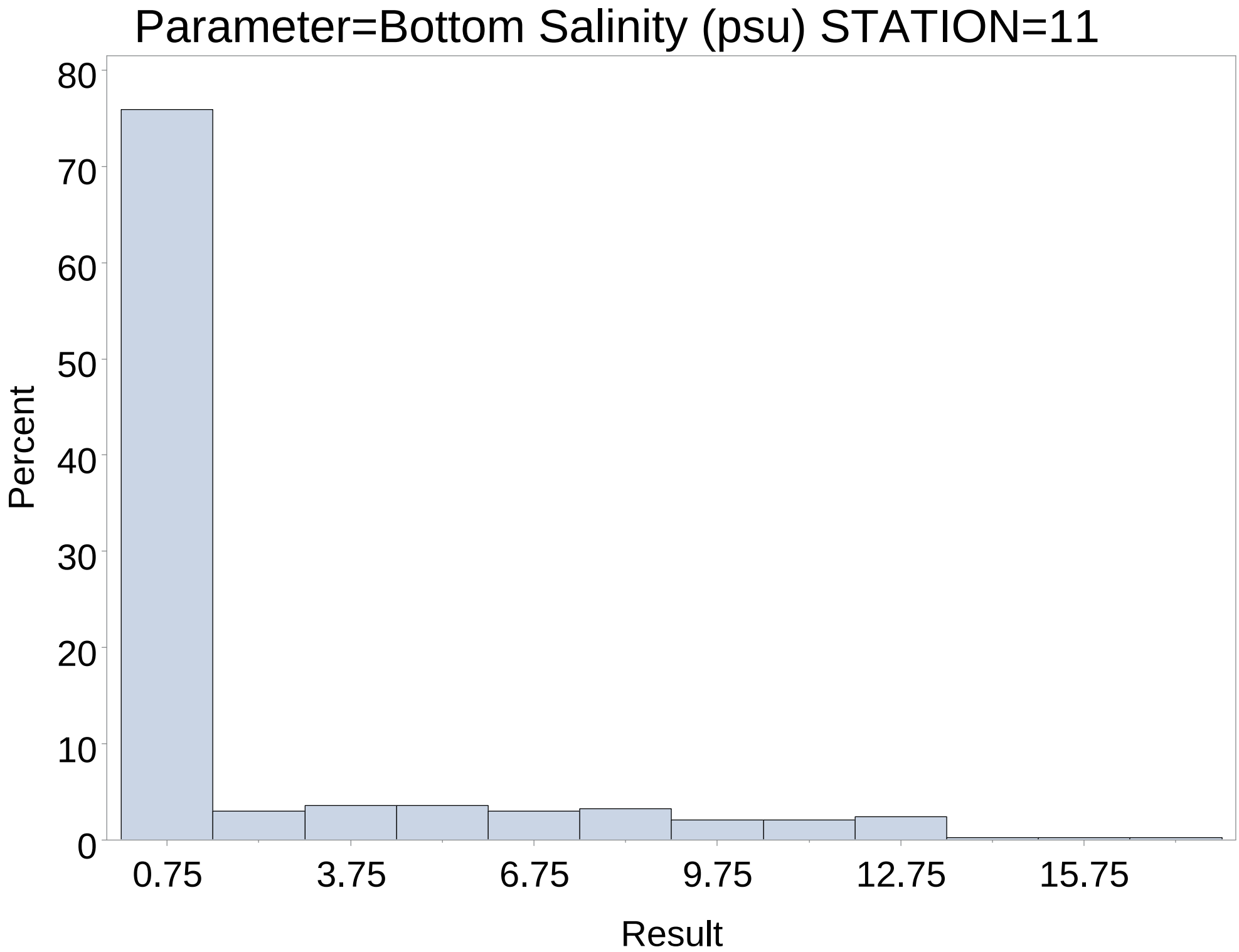
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.07235	**Pr > |t|**	<.0001
Sign	**M**	151	**Pr >= |M|**	<.0001
Signed Rank	**S**	22876.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.860
99%	13.470
95%	10.900
90%	7.920
75% Q3	1.215
50% Median	0.310
25% Q1	0.145
10%	0.010
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	88740	13.42	88866
0	88739	13.47	88724
0	88717	14.59	88926
0	88716	16.43	88725
0	88705	17.86	88830


Parameter=Bottom Salinity (psu) STATION=11
Percent
80
70
60
50
40
30
20
10
0
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=12

Moments			
N	333	**Sum Weights**	333
Mean	2.63810811	**Sum Observations**	878.49
Std Deviation	4.07522743	**Variance**	16.6074786
Skewness	1.70558843	**Kurtosis**	1.95807996
Uncorrected SS	7831.2345	**Corrected SS**	5513.68291
Coeff Variation	154.475377	**Std Error Mean**	0.22332109

Basic Statistical Measures			
Location		**Variability**	
Mean	2.638108	**Std Deviation**	4.07523
Median	0.380000	**Variance**	16.60748
Mode	0.000000	**Range**	18.42000
		Interquartile Range	3.54000

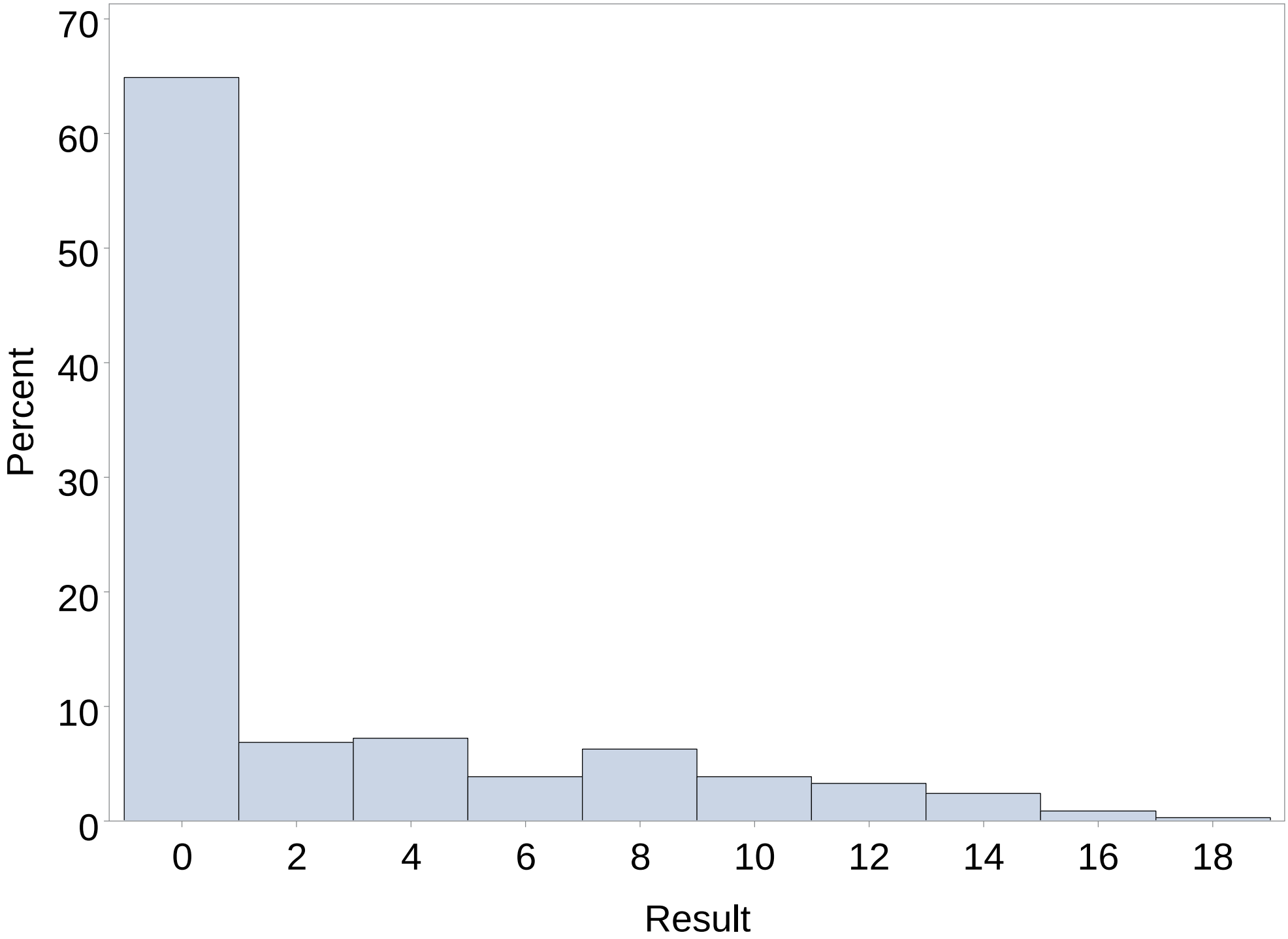
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.81307	**Pr > |t|**	<.0001
Sign	**M**	151.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23028	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.42
99%	15.40
95%	11.83
90%	9.64
75% Q3	3.71
50% Median	0.38
25% Q1	0.17
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	89073	14.98	89199
0	89072	15.40	89259
0	89050	16.44	89057
0	89049	16.46	89058
0	89048	18.42	89163


Parameter=Bottom Salinity (psu) STATION=12
Percent
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	2.6095509	**Sum Observations**	871.59
Std Deviation	4.0855082	**Variance**	16.6913773
Skewness	1.78447216	**Kurtosis**	2.30768986
Uncorrected SS	7832.6871	**Corrected SS**	5558.22863
Coeff Variation	156.559821	**Std Error Mean**	0.22354906

Basic Statistical Measures			
Location		**Variability**	
Mean	2.609551	**Std Deviation**	4.08551
Median	0.380000	**Variance**	16.69138
Mode	0.000000	**Range**	19.16000
		Interquartile Range	3.75000

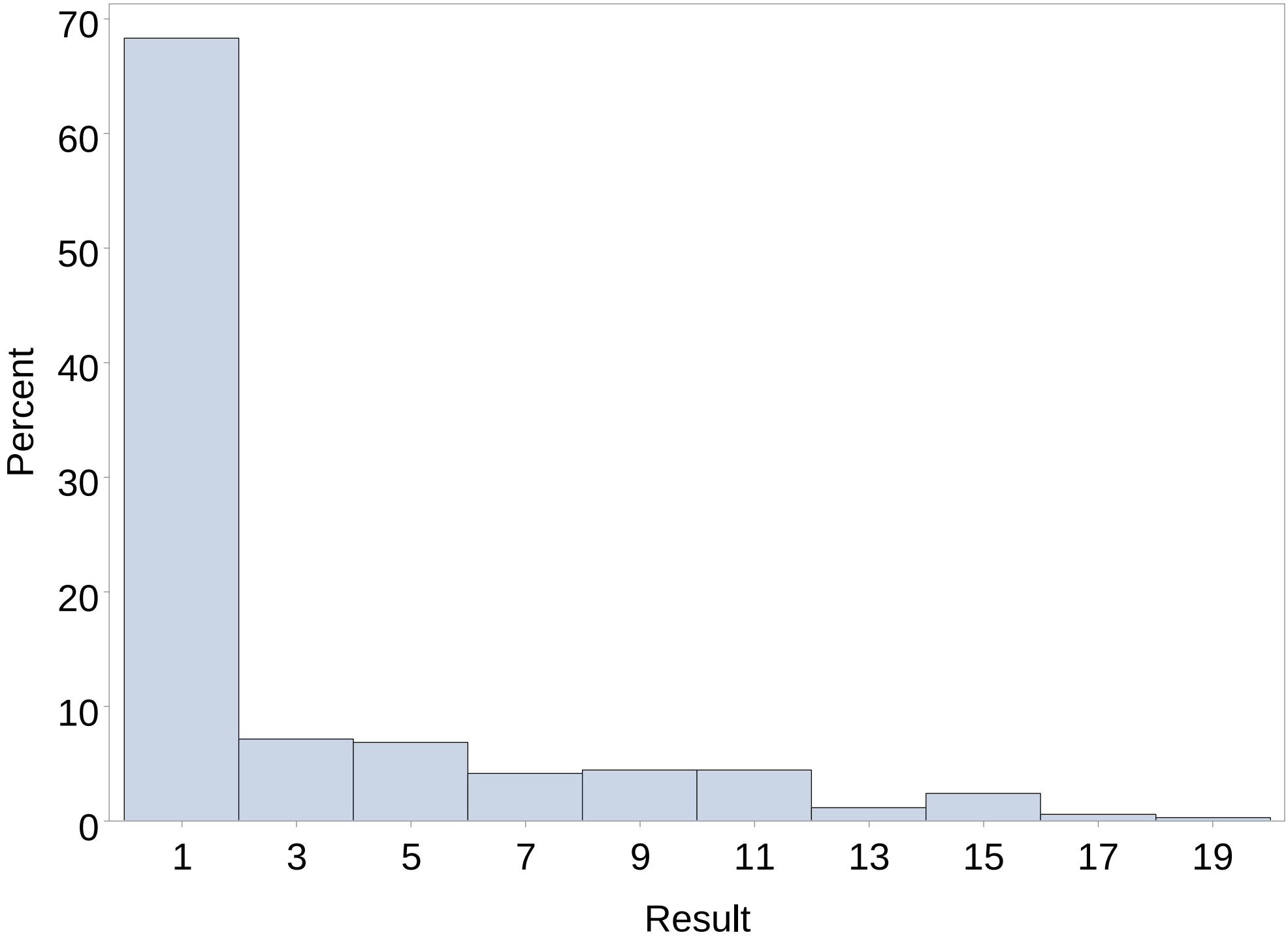
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.67328	**Pr > |t|**	<.0001
Sign	**M**	152	**Pr >= |M|**	<.0001
Signed Rank	**S**	23180	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.16
99%	15.71
95%	11.85
90%	9.29
75% Q3	3.91
50% Median	0.38
25% Q1	0.16
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	89406	15.59	89533
0	89405	15.71	89390
0	89383	16.18	89391
0	89382	16.31	89593
0	89381	19.16	89497


Parameter=Bottom Salinity (psu) STATION=13
Percent
70
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	2.94021021	**Sum Observations**	979.09
Std Deviation	4.36201467	**Variance**	19.0271719
Skewness	1.72280746	**Kurtosis**	2.17837404
Uncorrected SS	9195.7515	**Corrected SS**	6317.02109
Coeff Variation	148.357238	**Std Error Mean**	0.23903693

Basic Statistical Measures			
Location		**Variability**	
Mean	2.940210	**Std Deviation**	4.36201
Median	0.490000	**Variance**	19.02717
Mode	0.000000	**Range**	20.41000
		Interquartile Range	4.28000

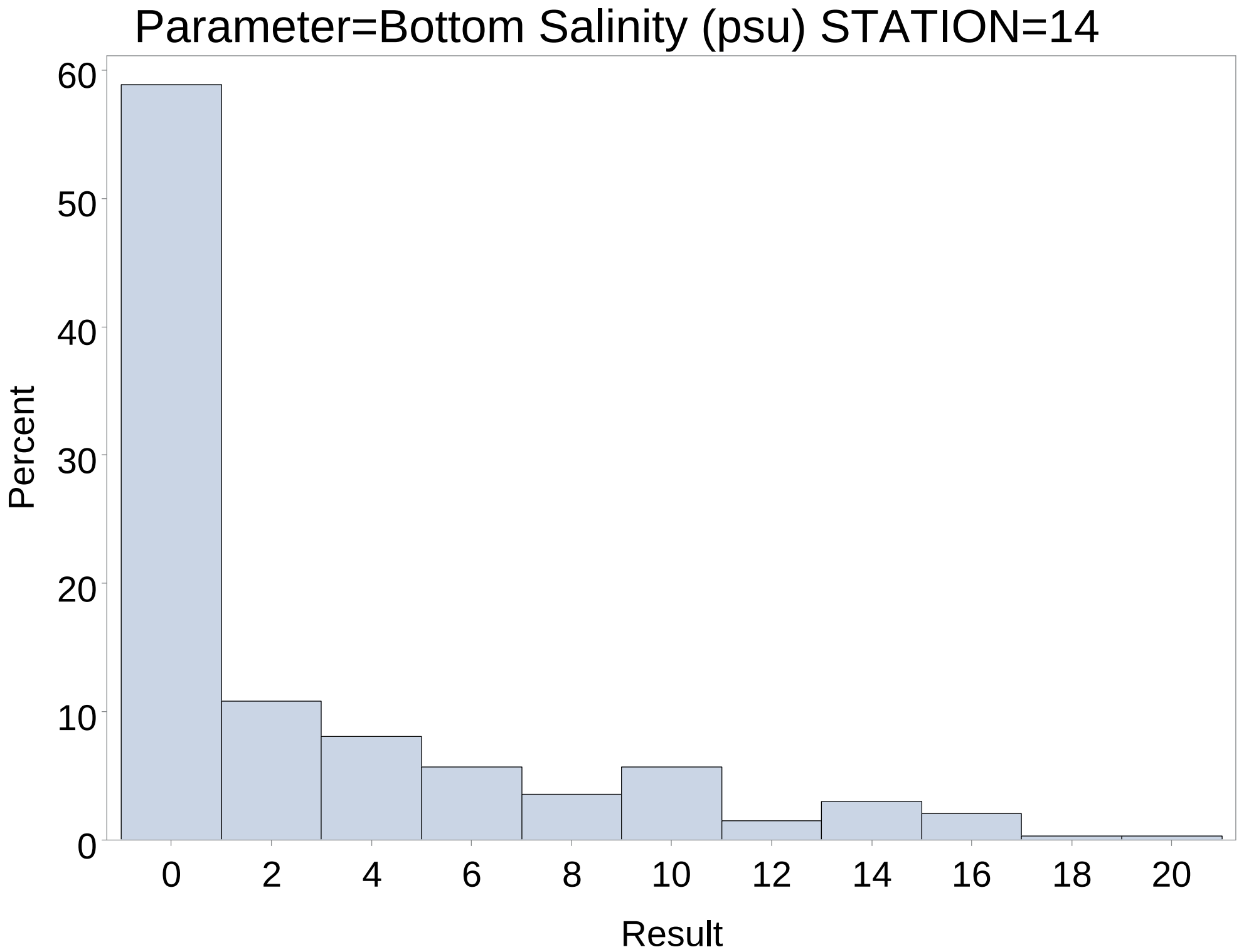
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.30023	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	20.41
99%	16.78
95%	13.43
90%	9.65
75% Q3	4.45
50% Median	0.49
25% Q1	0.17
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	89740	16.72	89926
0	89739	16.78	89866
0	89717	16.91	89724
0	89716	17.07	89819
0	89715	20.41	89830


Parameter=Bottom Salinity (psu) STATION=14
Percent
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=15

Moments			
N	332	**Sum Weights**	332
Mean	4.86192771	**Sum Observations**	1614.16
Std Deviation	5.7798597	**Variance**	33.4067781
Skewness	1.12066329	**Kurtosis**	0.19777878
Uncorrected SS	18905.5728	**Corrected SS**	11057.6436
Coeff Variation	118.880001	**Std Error Mean**	0.31721101

Basic Statistical Measures			
Location		**Variability**	
Mean	4.861928	**Std Deviation**	5.77986
Median	2.090000	**Variance**	33.40678
Mode	0.000000	**Range**	23.43000
		Interquartile Range	8.48500

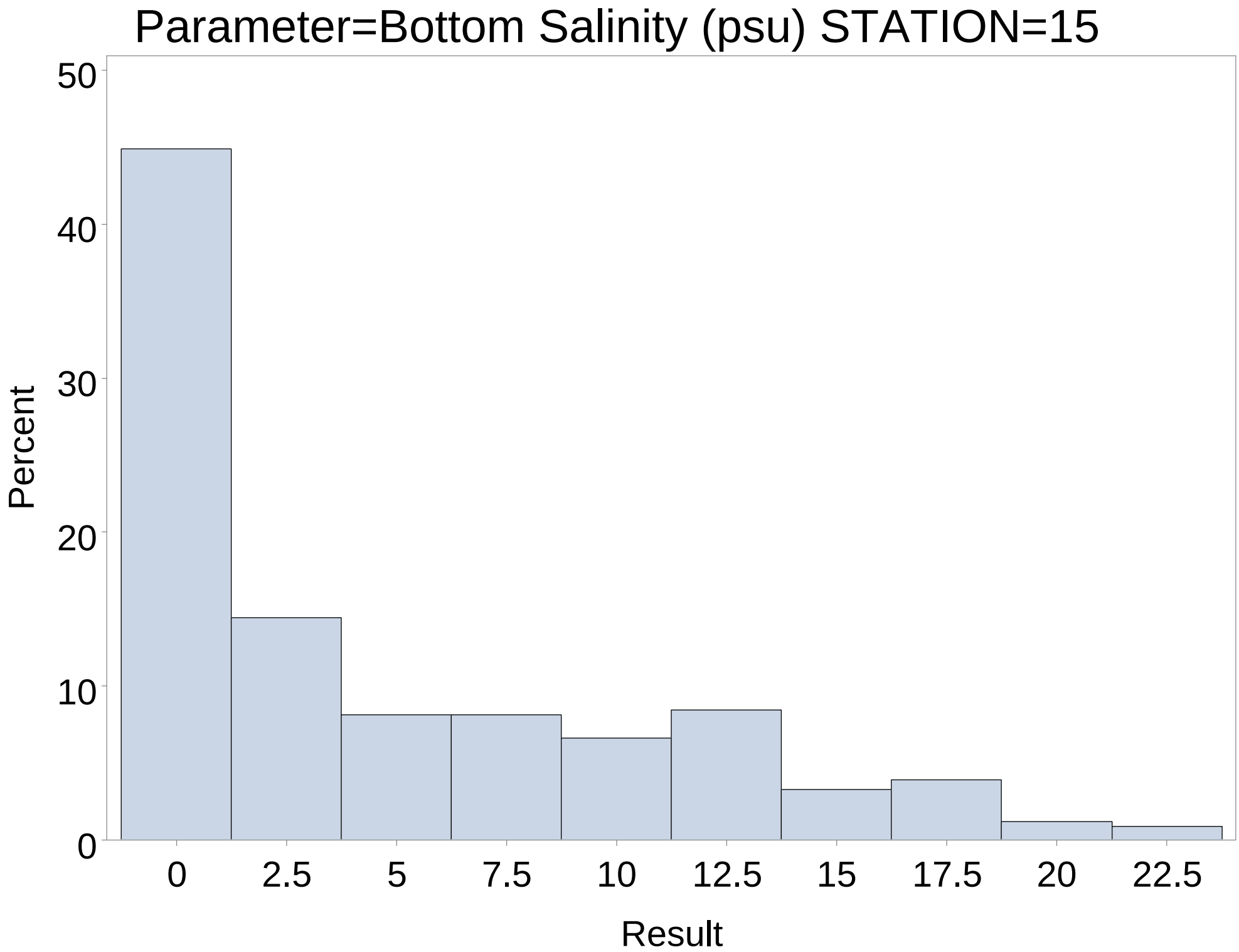
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.32711	**Pr > |t|**	<.0001
Sign	**M**	154.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23947.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	23.430
99%	19.960
95%	16.980
90%	13.420
75% Q3	8.695
50% Median	2.090
25% Q1	0.210
10%	0.080
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	90072	19.41	90139
0	90071	19.96	90198
0	90050	21.34	90151
0	90049	23.20	90150
0	90048	23.43	90162


Parameter=Bottom Salinity (psu) STATION=15
Percent
50
40
30
20
10
0
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=16

Moments			
N	333	**Sum Weights**	333
Mean	7.69162162	**Sum Observations**	2561.31
Std Deviation	7.10572735	**Variance**	50.4913612
Skewness	0.60793204	**Kurtosis**	-0.6817348
Uncorrected SS	36463.7593	**Corrected SS**	16763.1319
Coeff Variation	92.3826951	**Std Error Mean**	0.38939146

Basic Statistical Measures			
Location		**Variability**	
Mean	7.691622	**Std Deviation**	7.10573
Median	6.450000	**Variance**	50.49136
Mode	0.000000	**Range**	28.99000
		Interquartile Range	12.94000

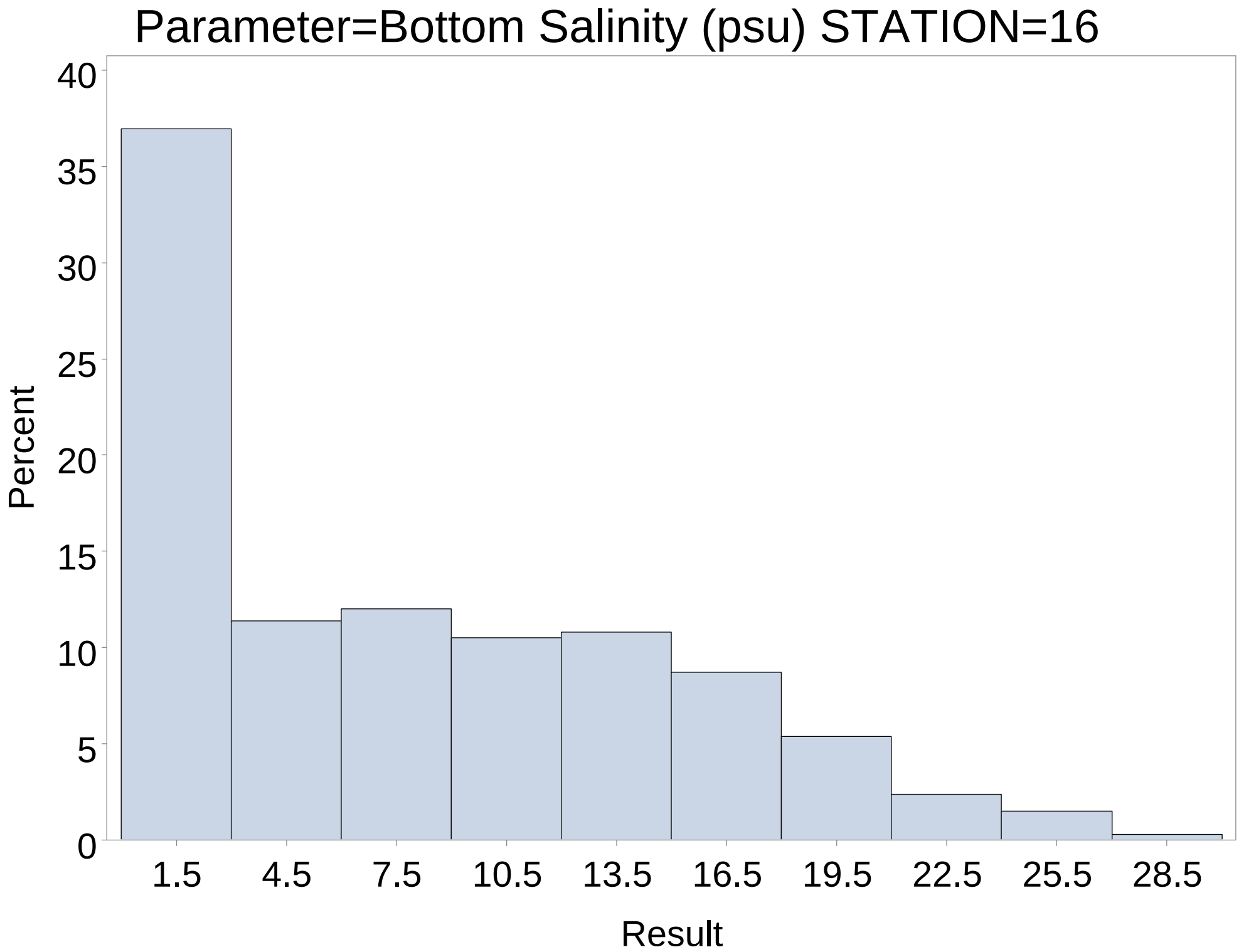
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.75293	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.99
99%	24.89
95%	20.69
90%	17.93
75% Q3	13.41
50% Median	6.45
25% Q1	0.47
10%	0.12
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	90405	24.87	90484
0	90382	24.89	90412
0	90381	25.45	90290
0	90369	25.84	90495
0	90364	28.99	90483


Parameter=Bottom Salinity (psu) STATION=16
Percent
40
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=17

Moments			
N	332	**Sum Weights**	332
Mean	8.86954819	**Sum Observations**	2944.69
Std Deviation	7.46136863	**Variance**	55.6720218
Skewness	0.46783837	**Kurtosis**	-0.7967336
Uncorrected SS	44545.5091	**Corrected SS**	18427.4392
Coeff Variation	84.1234353	**Std Error Mean**	0.4094958

Basic Statistical Measures			
Location		**Variability**	
Mean	8.869548	**Std Deviation**	7.46137
Median	8.130000	**Variance**	55.67202
Mode	0.000000	**Range**	31.36000
		Interquartile Range	13.94500

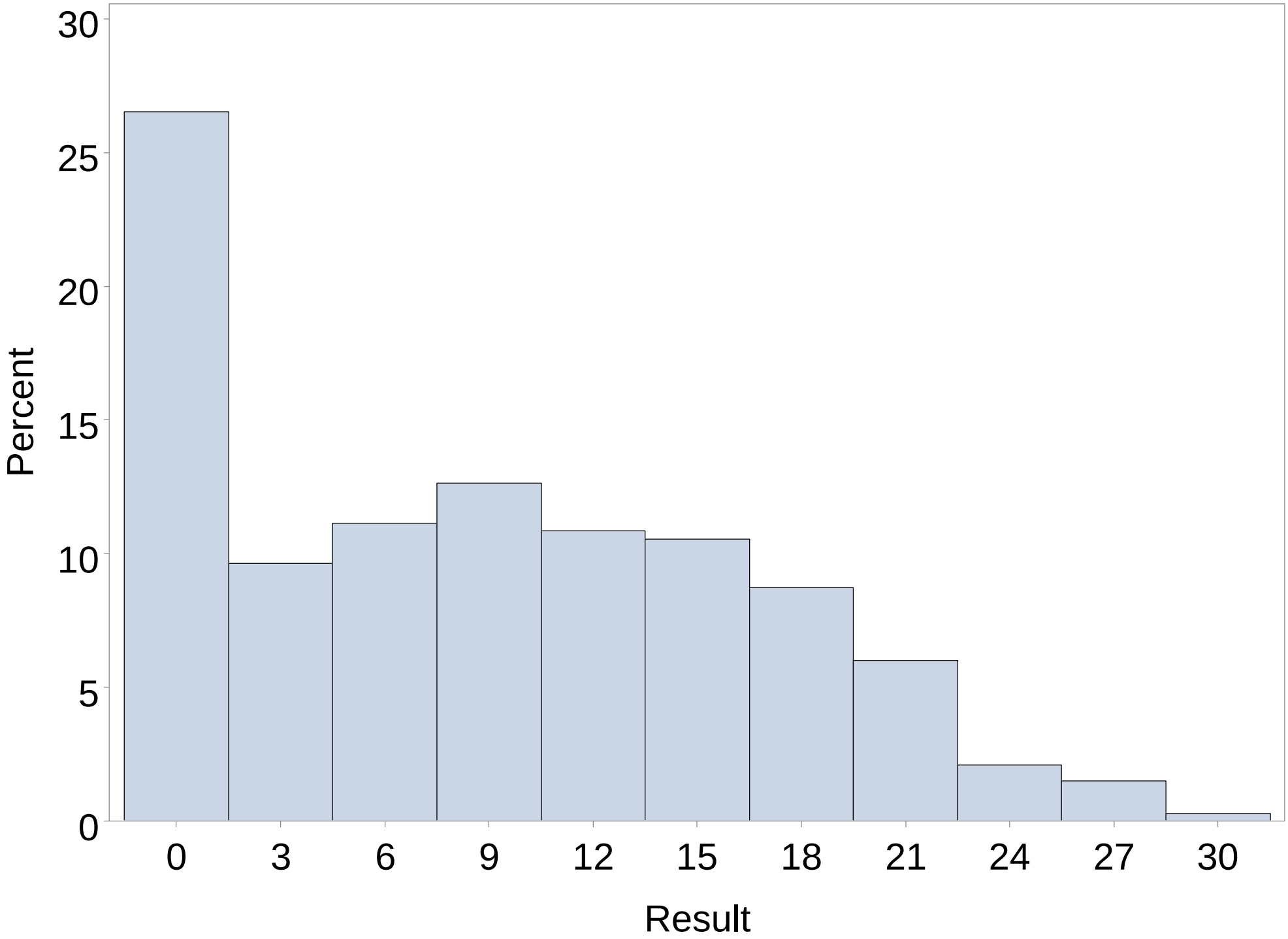
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.65968	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.360
99%	26.360
95%	21.560
90%	19.240
75% Q3	15.090
50% Median	8.130
25% Q1	1.145
10%	0.130
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	90738	26.21	90827
0	90715	26.36	90816
0	90702	26.88	90745
0	90697	27.17	90623
0	90696	31.36	90815


Parameter=Bottom Salinity (psu) STATION=17
Percent
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	6.61322188	**Sum Observations**	2175.75
Std Deviation	6.85899996	**Variance**	47.0458804
Skewness	0.83726252	**Kurtosis**	-0.3600697
Uncorrected SS	29819.7663	**Corrected SS**	15431.0488
Coeff Variation	103.716465	**Std Error Mean**	0.37814891

Basic Statistical Measures			
Location		**Variability**	
Mean	6.613222	**Std Deviation**	6.85900
Median	4.630000	**Variance**	47.04588
Mode	0.000000	**Range**	28.40000
		Interquartile Range	11.28000

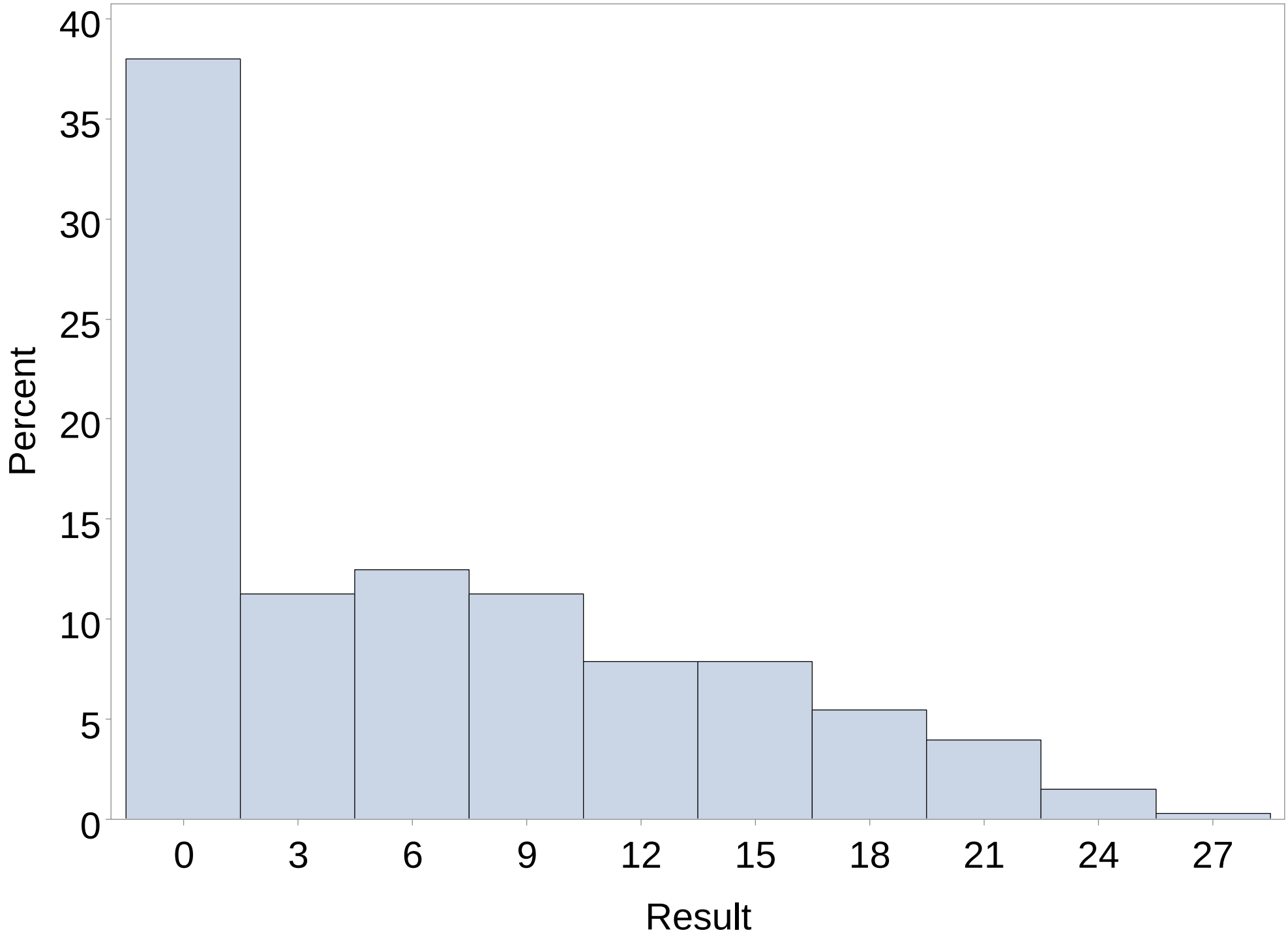
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.48841	**Pr > |t|**	<.0001
Sign	**M**	148.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	22126.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.40
99%	24.42
95%	20.02
90%	17.52
75% Q3	11.49
50% Median	4.63
25% Q1	0.21
10%	0.01
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	91068	23.49	91135
0	91067	24.42	91065
0	91045	24.90	91146
0	91044	25.08	91157
0	91043	28.40	91145


Parameter=Bottom Salinity (psu) STATION=18
Percent
40
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=19

Moments			
N	331	**Sum Weights**	331
Mean	12.3049547	**Sum Observations**	4072.94
Std Deviation	8.02003534	**Variance**	64.3209669
Skewness	0.00219659	**Kurtosis**	-0.8895108
Uncorrected SS	71343.2612	**Corrected SS**	21225.9191
Coeff Variation	65.1772847	**Std Error Mean**	0.44082101

Basic Statistical Measures			
Location		**Variability**	
Mean	12.30495	**Std Deviation**	8.02004
Median	12.74000	**Variance**	64.32097
Mode	0.00000	**Range**	35.12000
		Interquartile Range	13.37000

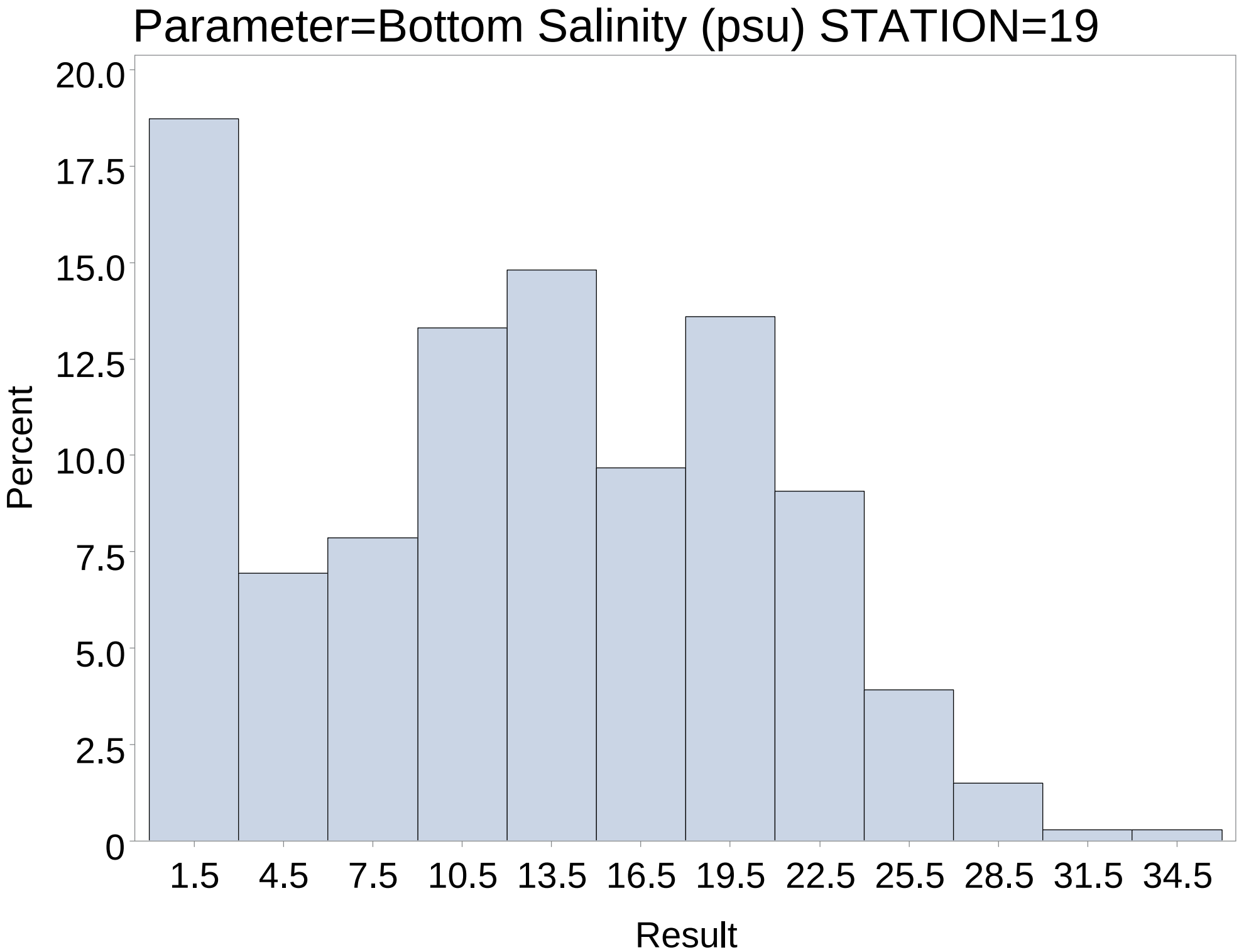
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.91372	**Pr > |t|**	<.0001
Sign	**M**	158.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	25201.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	35.12
99%	28.35
95%	24.38
90%	22.50
75% Q3	18.84
50% Median	12.74
25% Q1	5.47
10%	0.16
5%	0.06
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	91399	28.14	91472
0	91398	28.35	91405
0	91363	28.62	91476
0	91358	30.91	91406
0	91357	35.12	91475


Parameter=Bottom Salinity (psu) STATION=19
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
34.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	0.09	**Sum Observations**	0.09
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	0.0081	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	0.090000	**Std Deviation**	.
Median	0.090000	**Variance**	.
Mode	0.090000	**Range**	0
		Interquartile Range	0

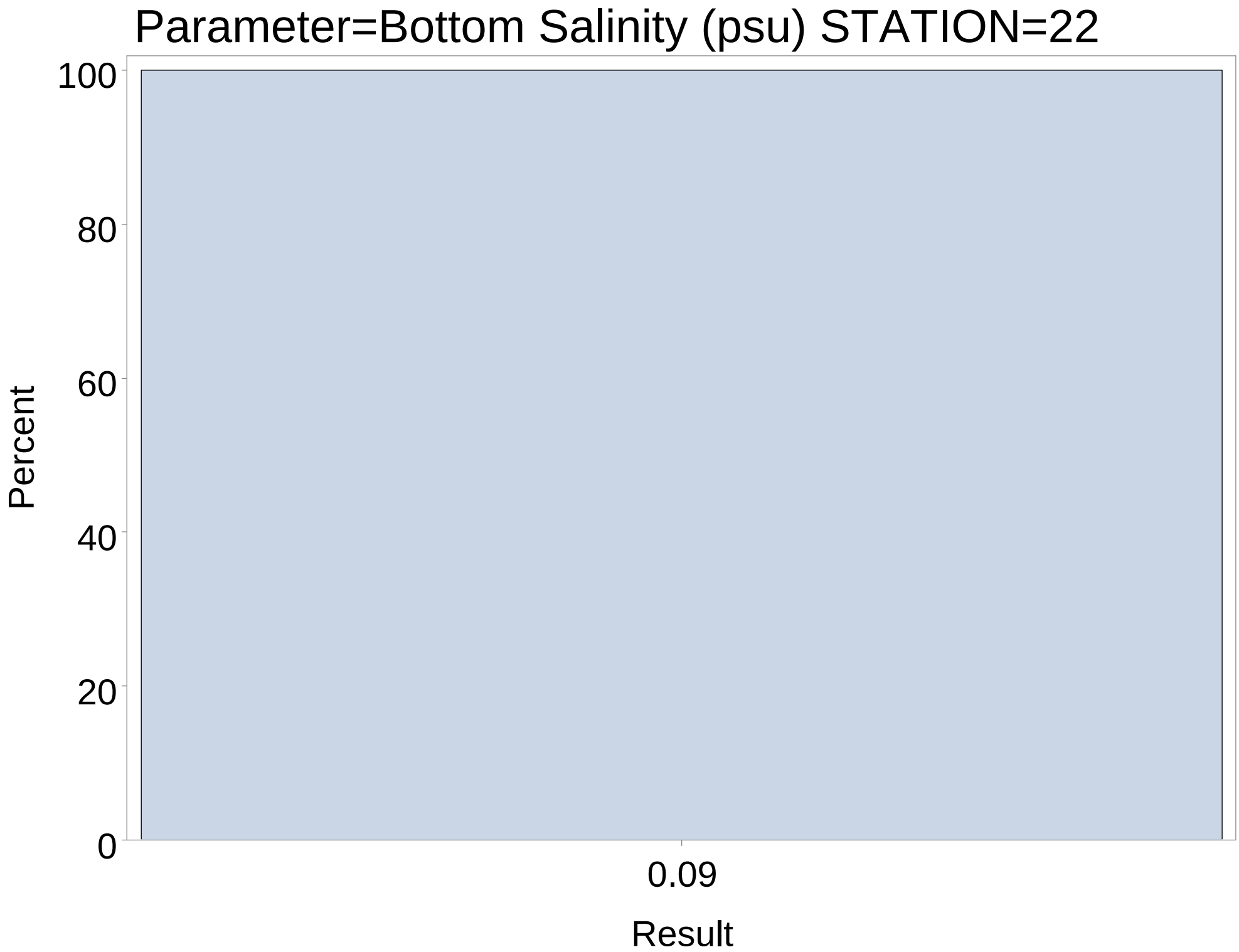
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.09
99%	0.09
95%	0.09
90%	0.09
75% Q3	0.09
50% Median	0.09
25% Q1	0.09
10%	0.09
5%	0.09
1%	0.09
0% Min	0.09

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Salinity (psu) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.09	91603	0.09	91603


Parameter=Bottom Salinity (psu) STATION=22
100
80
60
40
20
0
Percent
0.09
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=1

Moments			
N	334	**Sum Weights**	334
Mean	0.27919162	**Sum Observations**	93.25
Std Deviation	0.34998362	**Variance**	0.12248853
Skewness	8.54180368	**Kurtosis**	97.7810903
Uncorrected SS	66.8233	**Corrected SS**	40.7886817
Coeff Variation	125.356063	**Std Error Mean**	0.01915025

Basic Statistical Measures			
Location		**Variability**	
Mean	0.279192	**Std Deviation**	0.34998
Median	0.260000	**Variance**	0.12249
Mode	0.000000	**Range**	4.68000
		Interquartile Range	0.26000

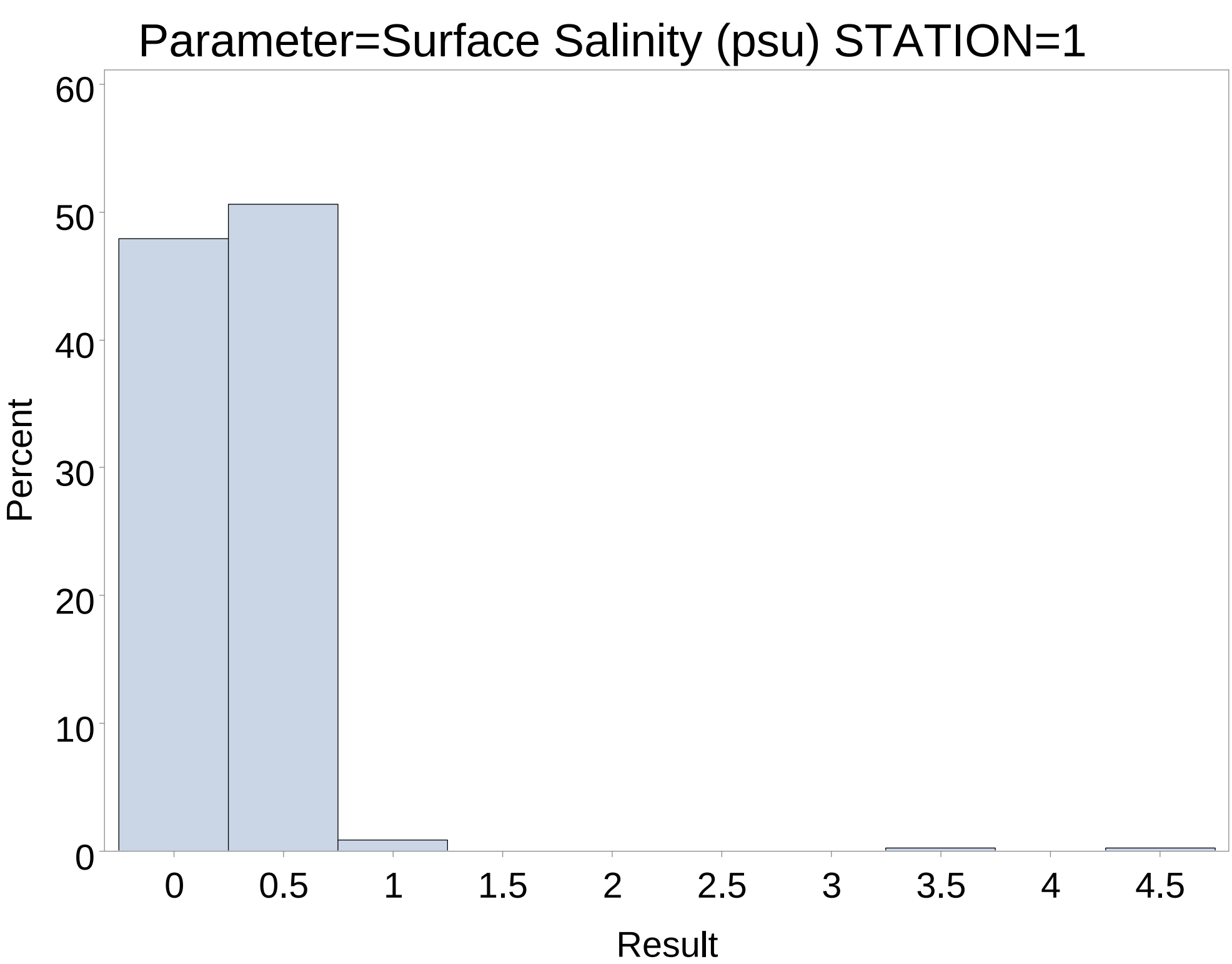
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.57901	**Pr > |t|**	<.0001
Sign	**M**	149	**Pr >= |M|**	<.0001
Signed Rank	**S**	22275.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.68
99%	0.83
95%	0.56
90%	0.49
75% Q3	0.38
50% Median	0.26
25% Q1	0.12
10%	0.00
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	91731	0.79	91736
0	91730	0.83	91737
0	91729	0.86	91738
0	91708	3.58	91696
0	91707	4.68	91643


Parameter=Surface Salinity (psu) STATION=1
Percent
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=2

Moments			
N	332	**Sum Weights**	332
Mean	0.37873494	**Sum Observations**	125.74
Std Deviation	0.25248654	**Variance**	0.06374945
Skewness	4.06886401	**Kurtosis**	43.4416879
Uncorrected SS	68.7232	**Corrected SS**	21.1010687
Coeff Variation	66.6657633	**Std Error Mean**	0.013857

Basic Statistical Measures			
Location		**Variability**	
Mean	0.378735	**Std Deviation**	0.25249
Median	0.370000	**Variance**	0.06375
Mode	0.000000	**Range**	3.16000
		Interquartile Range	0.28000

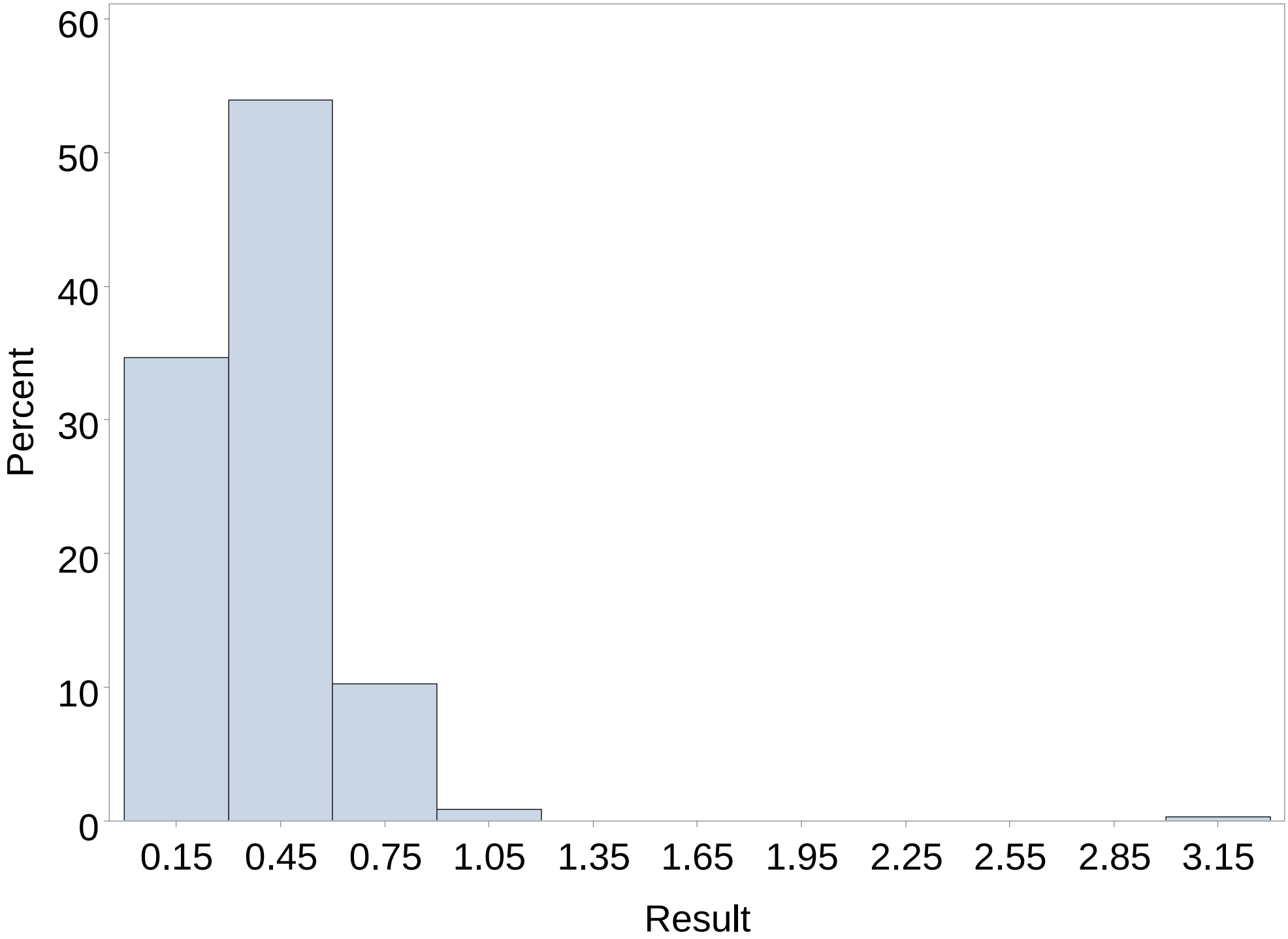
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	27.33167	**Pr > |t|**	<.0001
Sign	**M**	157	**Pr >= |M|**	<.0001
Signed Rank	**S**	24727.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.16
99%	0.90
95%	0.70
90%	0.60
75% Q3	0.51
50% Median	0.37
25% Q1	0.23
10%	0.10
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	92064	0.88	92070
0	92063	0.90	92027
0	92040	1.00	92071
0	92028	1.03	92025
0	92021	3.16	92030


Parameter=Surface Salinity (psu) STATION=2
Percent
60
50
40
30
20
10
0
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=3

Moments			
N	328	**Sum Weights**	328
Mean	0.32155488	**Sum Observations**	105.47
Std Deviation	0.53429798	**Variance**	0.28547433
Skewness	9.1847102	**Kurtosis**	97.1306967
Uncorrected SS	127.2645	**Corrected SS**	93.350107
Coeff Variation	166.160745	**Std Error Mean**	0.02950167

Basic Statistical Measures			
Location		**Variability**	
Mean	0.321555	**Std Deviation**	0.53430
Median	0.270000	**Variance**	0.28547
Mode	0.000000	**Range**	6.87000
		Interquartile Range	0.26000

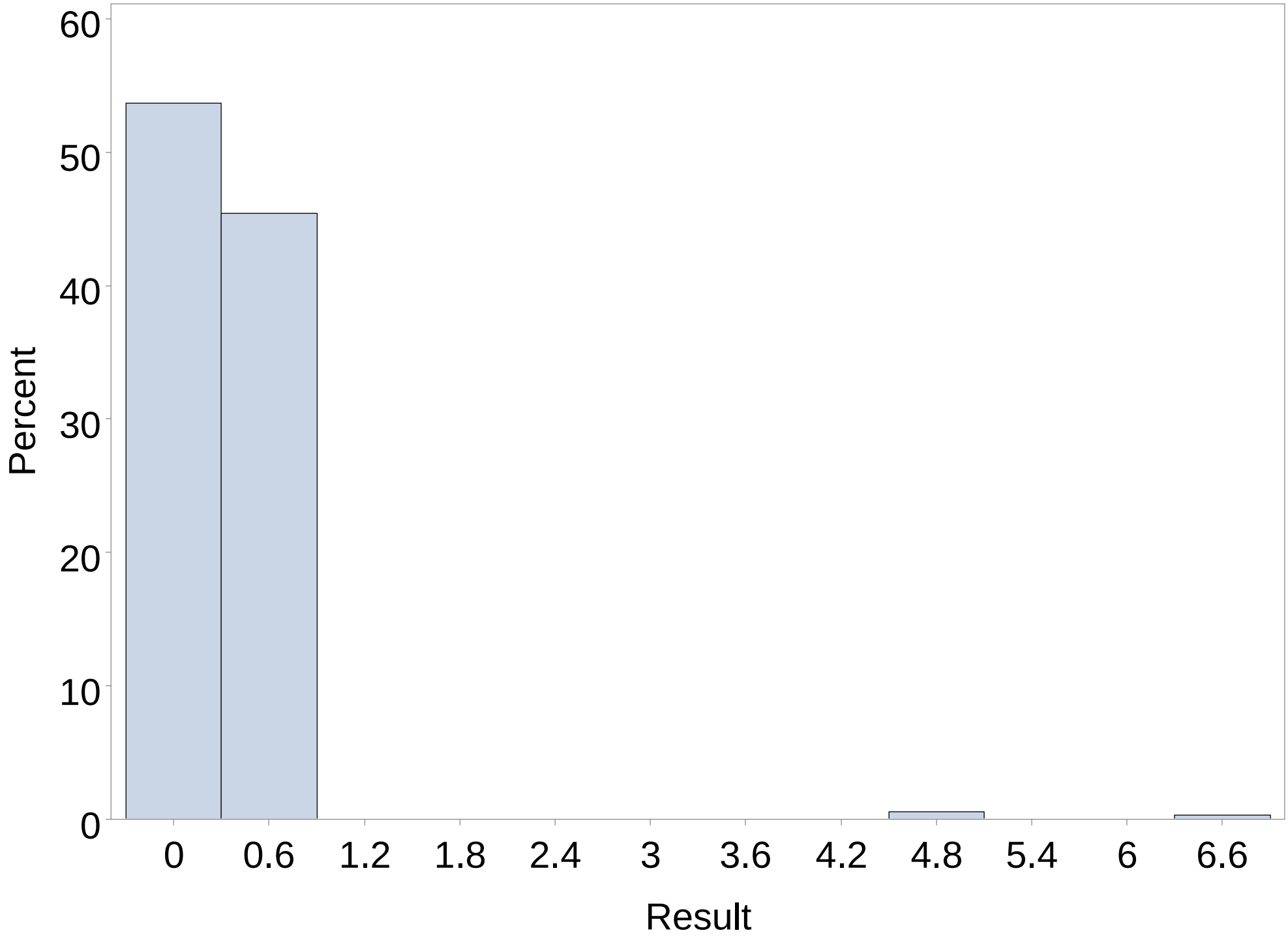
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.89955	**Pr > |t|**	<.0001
Sign	**M**	149.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	22425	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	6.870
99%	0.870
95%	0.570
90%	0.500
75% Q3	0.405
50% Median	0.270
25% Q1	0.145
10%	0.020
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	92395	0.81	92396
0	92374	0.87	92403
0	92373	4.62	92309
0	92361	4.90	92421
0	92356	6.87	92519


Parameter=Surface Salinity (psu) STATION=3
Percent
60
50
40
30
20
10
0
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
6.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=4

Moments			
N	333	**Sum Weights**	333
Mean	1.48444444	**Sum Observations**	494.32
Std Deviation	2.8436806	**Variance**	8.08651934
Skewness	2.78095601	**Kurtosis**	7.82376385
Uncorrected SS	3418.515	**Corrected SS**	2684.72442
Coeff Variation	191.56531	**Std Error Mean**	0.15583274

Basic Statistical Measures			
Location		**Variability**	
Mean	1.484444	**Std Deviation**	2.84368
Median	0.320000	**Variance**	8.08652
Mode	0.000000	**Range**	16.44000
		Interquartile Range	0.76000

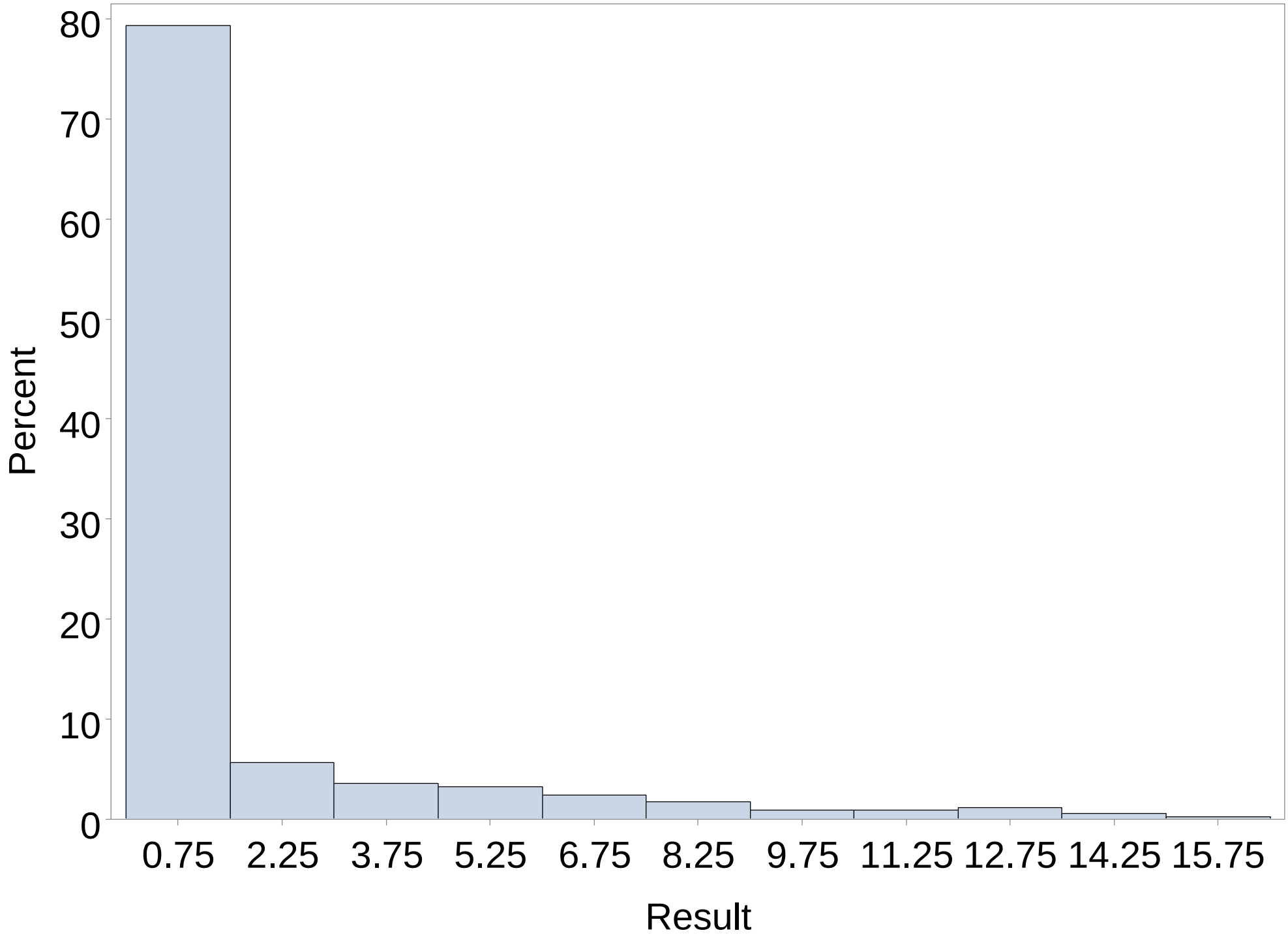
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.525883	**Pr > |t|**	<.0001
Sign	**M**	151.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23028	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.44
99%	13.39
95%	8.55
90%	5.31
75% Q3	0.90
50% Median	0.32
25% Q1	0.14
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	92725	12.83	92710
0	92724	13.39	92709
0	92702	13.72	92814
0	92701	14.63	92911
0	92700	16.44	92815


Parameter=Surface Salinity (psu) STATION=4
Percent
80
70
60
50
40
30
20
10
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	2.1098806	**Sum Observations**	706.81
Std Deviation	3.48293779	**Variance**	12.1308557
Skewness	2.21041245	**Kurtosis**	4.50639792
Uncorrected SS	5542.9905	**Corrected SS**	4051.7058
Coeff Variation	165.077483	**Std Error Mean**	0.19029322

Basic Statistical Measures			
Location		**Variability**	
Mean	2.109881	**Std Deviation**	3.48294
Median	0.400000	**Variance**	12.13086
Mode	0.000000	**Range**	18.12000
		Interquartile Range	2.59000

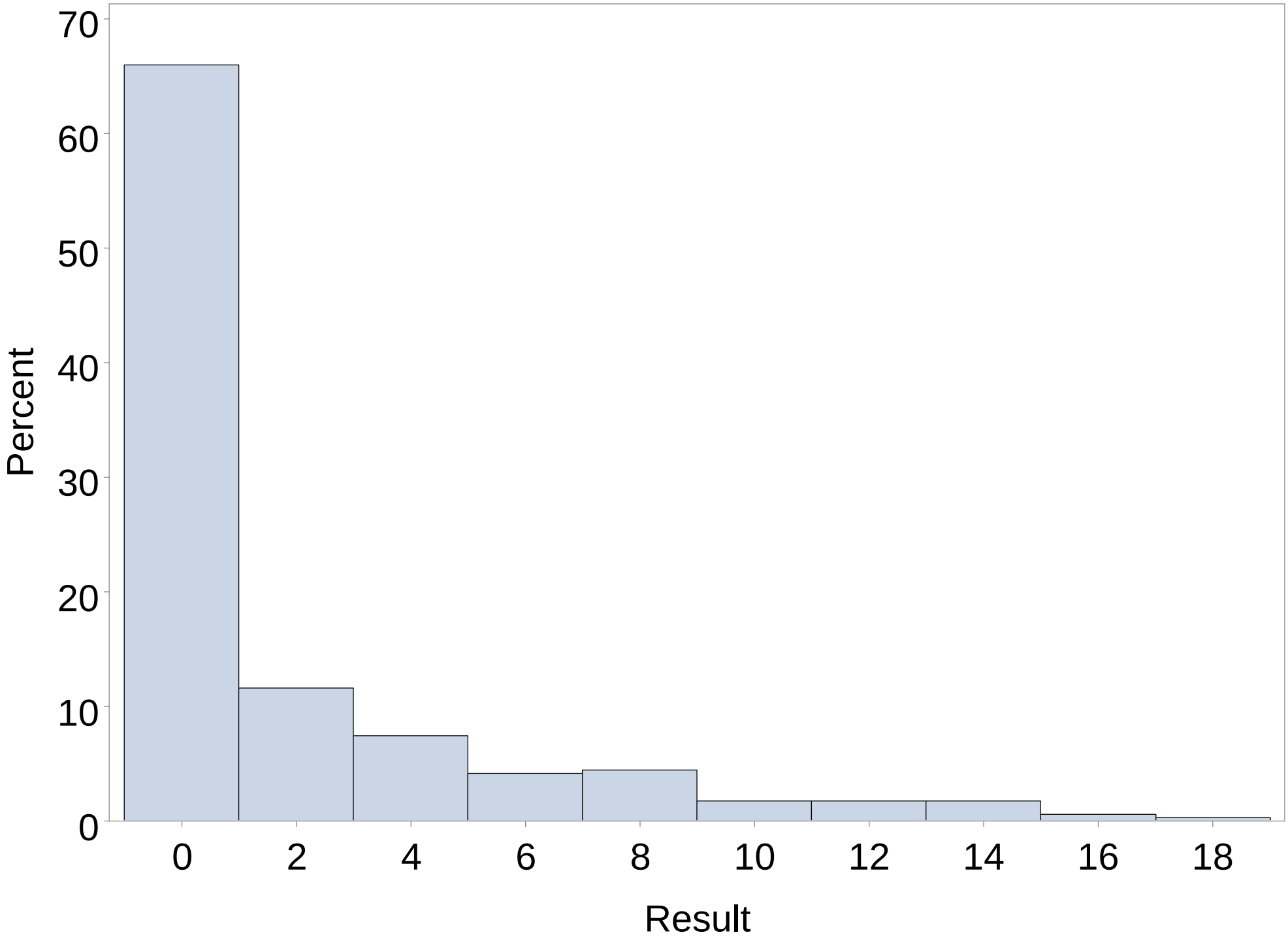
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.08752	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.12
99%	14.51
95%	10.36
90%	7.24
75% Q3	2.75
50% Median	0.40
25% Q1	0.16
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	93059	14.49	93186
0	93058	14.51	93139
0	93036	15.23	93246
0	93035	15.34	93149
0	93034	18.12	93150


Parameter=Surface Salinity (psu) STATION=5
Percent
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	3.38378378	**Sum Observations**	1126.8
Std Deviation	4.7180066	**Variance**	22.2595862
Skewness	1.61046387	**Kurtosis**	1.8444657
Uncorrected SS	11203.0302	**Corrected SS**	7390.18263
Coeff Variation	139.429907	**Std Error Mean**	0.25854517

Basic Statistical Measures			
Location		**Variability**	
Mean	3.383784	**Std Deviation**	4.71801
Median	0.790000	**Variance**	22.25959
Mode	0.000000	**Range**	20.84000
		Interquartile Range	5.24000

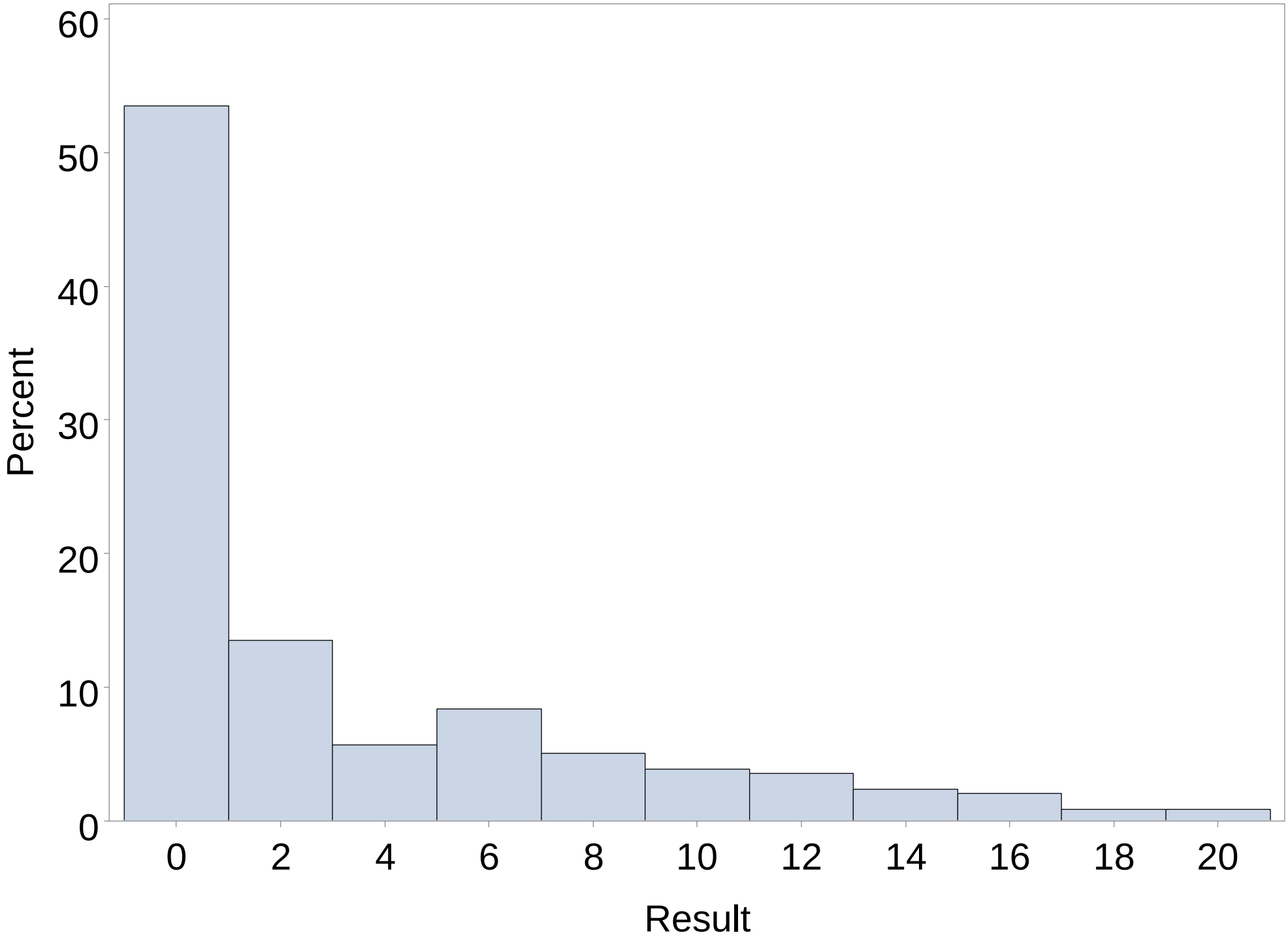
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.08779	**Pr > |t|**	<.0001
Sign	**M**	153.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	20.84
99%	17.97
95%	14.20
90%	10.86
75% Q3	5.43
50% Median	0.79
25% Q1	0.19
10%	0.03
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	93393	17.64	93482
0	93392	17.97	93579
0	93370	19.93	93472
0	93369	20.81	93483
0	93368	20.84	93471


Parameter=Surface Salinity (psu) STATION=6
Percent
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
20
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	5.32858859	**Sum Observations**	1774.42
Std Deviation	6.02185158	**Variance**	36.2626965
Skewness	1.1246999	**Kurtosis**	0.29853454
Uncorrected SS	21494.3694	**Corrected SS**	12039.2152
Coeff Variation	113.010256	**Std Error Mean**	0.32999543

Basic Statistical Measures			
Location		**Variability**	
Mean	5.328589	**Std Deviation**	6.02185
Median	2.990000	**Variance**	36.26270
Mode	0.000000	**Range**	25.37000
		Interquartile Range	8.51000

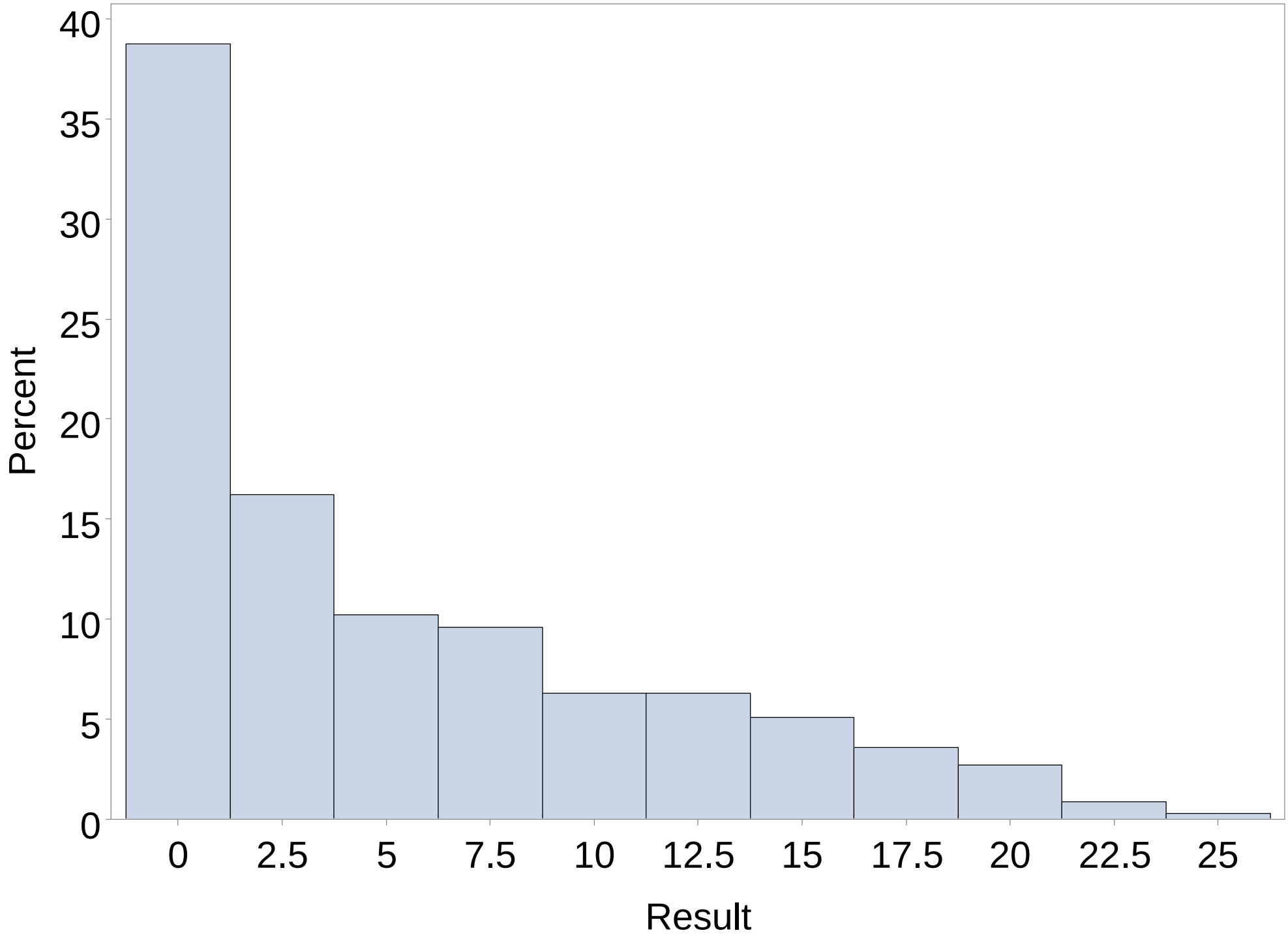
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.14746	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25.37
99%	21.32
95%	18.16
90%	14.84
75% Q3	8.78
50% Median	2.99
25% Q1	0.27
10%	0.08
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	93726	20.98	93793
0	93725	21.32	93800
0	93703	23.24	93805
0	93702	23.41	93816
0	93701	25.37	93804


Parameter=Surface Salinity (psu) STATION=7
Percent
40
35
30
25
20
15
10
5
0
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=8

Moments			
N	326	**Sum Weights**	326
Mean	6.4746319	**Sum Observations**	2110.73
Std Deviation	6.8298671	**Variance**	46.6470846
Skewness	0.87285516	**Kurtosis**	-0.3486708
Uncorrected SS	28826.5023	**Corrected SS**	15160.3025
Coeff Variation	105.48657	**Std Error Mean**	0.37827135

Basic Statistical Measures			
Location		**Variability**	
Mean	6.474632	**Std Deviation**	6.82987
Median	3.875000	**Variance**	46.64708
Mode	0.000000	**Range**	28.61000
		Interquartile Range	11.07000

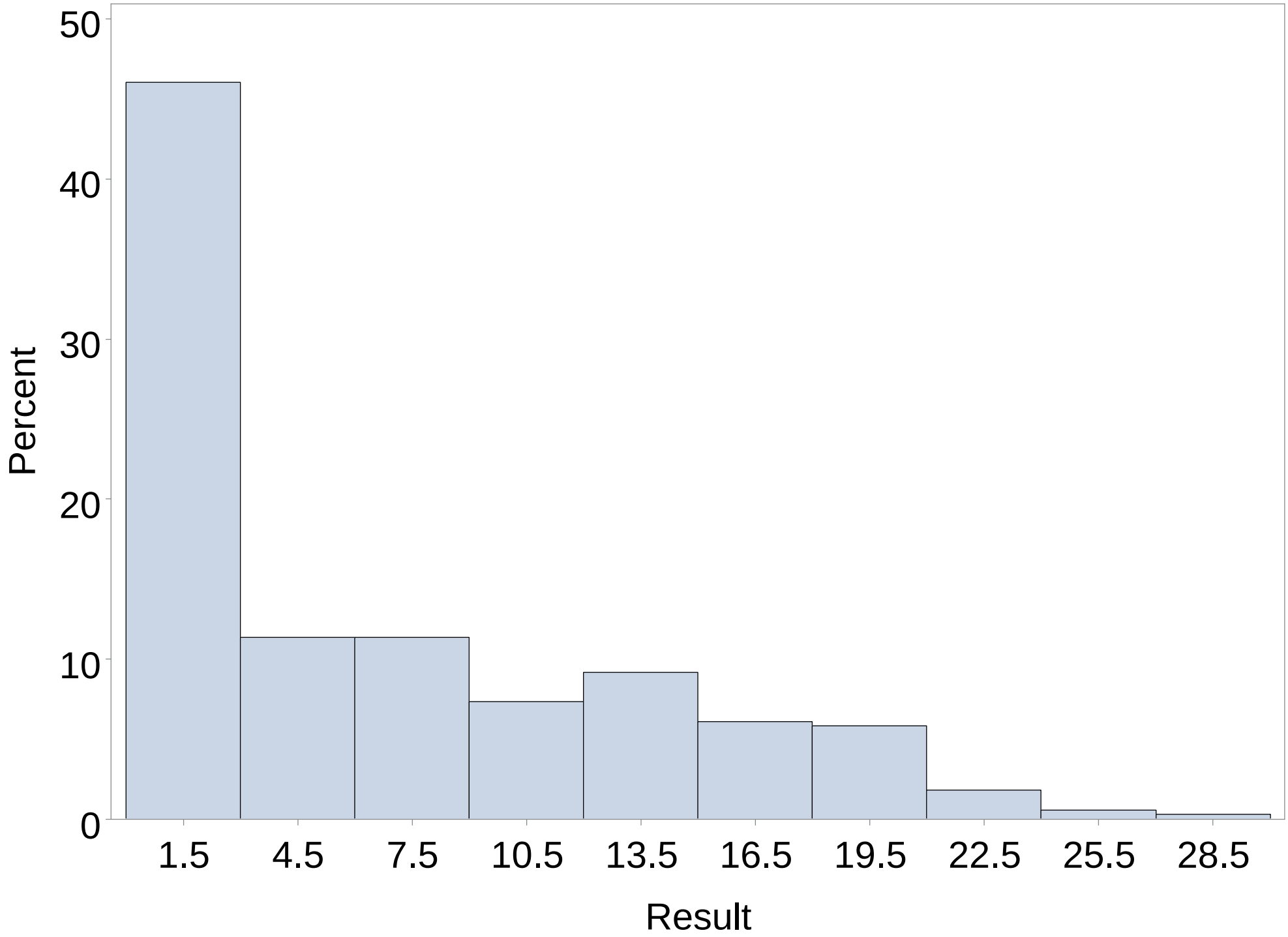
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.11637	**Pr > |t|**	<.0001
Sign	**M**	149.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	22425	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.610
99%	22.810
95%	19.570
90%	17.430
75% Q3	11.300
50% Median	3.875
25% Q1	0.230
10%	0.030
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	94059	21.90	94124
0	94058	22.81	94130
0	94036	24.82	94146
0	94035	25.30	94135
0	94034	28.61	94134


Parameter=Surface Salinity (psu) STATION=8
50
40
30
20
10
0
Percent
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=9

Moments			
N	330	**Sum Weights**	330
Mean	8.74857576	**Sum Observations**	2887.03
Std Deviation	7.54579434	**Variance**	56.9390123
Skewness	0.52548266	**Kurtosis**	-0.7819824
Uncorrected SS	43990.3357	**Corrected SS**	18732.935
Coeff Variation	86.2516889	**Std Error Mean**	0.41538231

Basic Statistical Measures			
Location		**Variability**	
Mean	8.748576	**Std Deviation**	7.54579
Median	7.280000	**Variance**	56.93901
Mode	0.000000	**Range**	31.13000
		Interquartile Range	13.50000

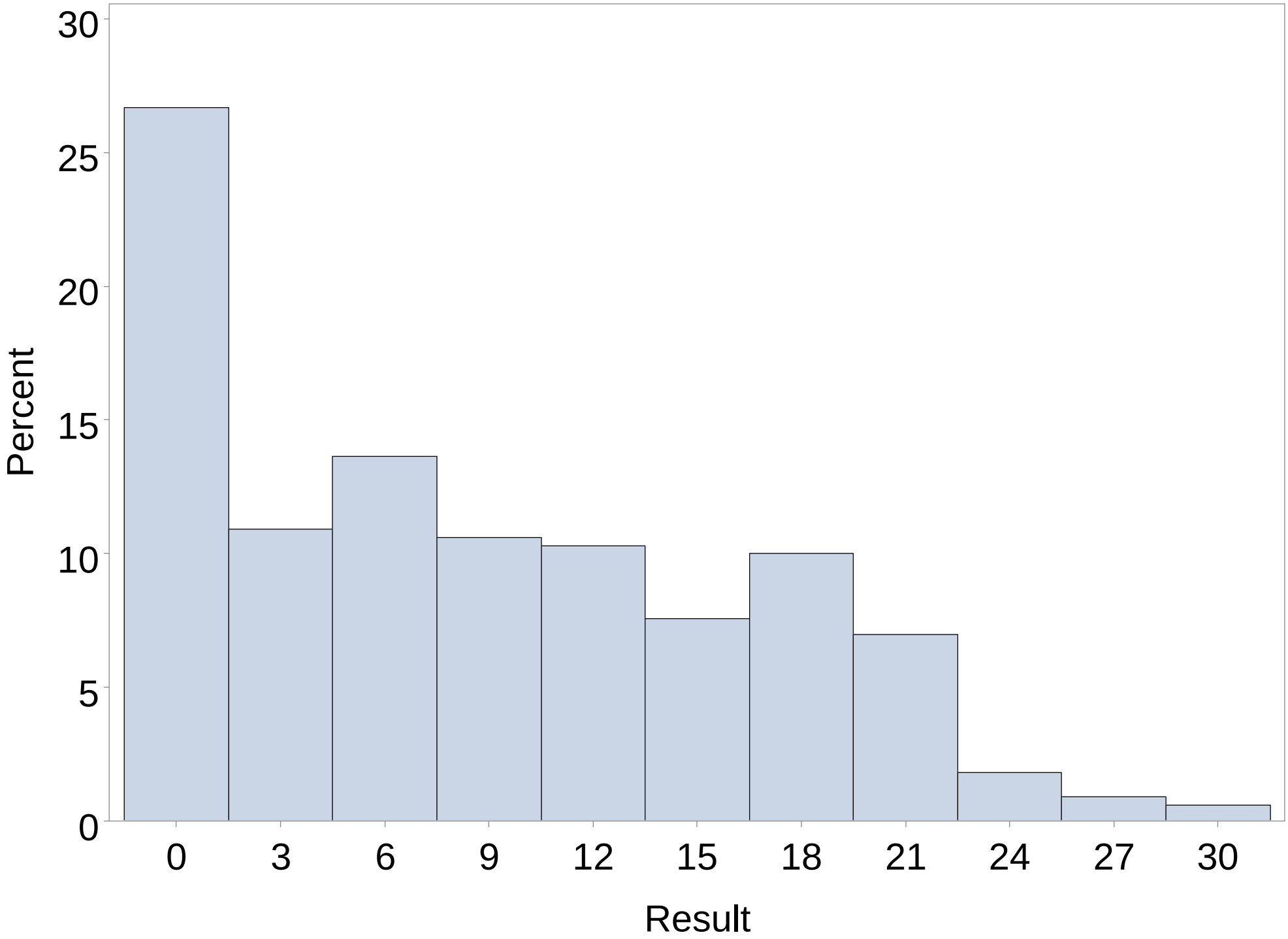
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.0615	**Pr > |t|**	<.0001
Sign	**M**	156.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24570.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.130
99%	26.560
95%	21.770
90%	19.605
75% Q3	14.860
50% Median	7.280
25% Q1	1.360
10%	0.140
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	94383	25.90	94457
0	94382	26.56	94462
0	94362	26.65	94473
0	94361	28.81	94390
0	94349	31.13	94461


Parameter=Surface Salinity (psu) STATION=9
Percent
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=10

Moments			
N	328	**Sum Weights**	328
Mean	1.28064024	**Sum Observations**	420.05
Std Deviation	3.05864432	**Variance**	9.35530509
Skewness	4.51072275	**Kurtosis**	27.8092015
Uncorrected SS	3597.1177	**Corrected SS**	3059.18477
Coeff Variation	238.837124	**Std Error Mean**	0.16888538

Basic Statistical Measures			
Location		**Variability**	
Mean	1.280640	**Std Deviation**	3.05864
Median	0.300000	**Variance**	9.35531
Mode	0.000000	**Range**	29.70000
		Interquartile Range	0.38500

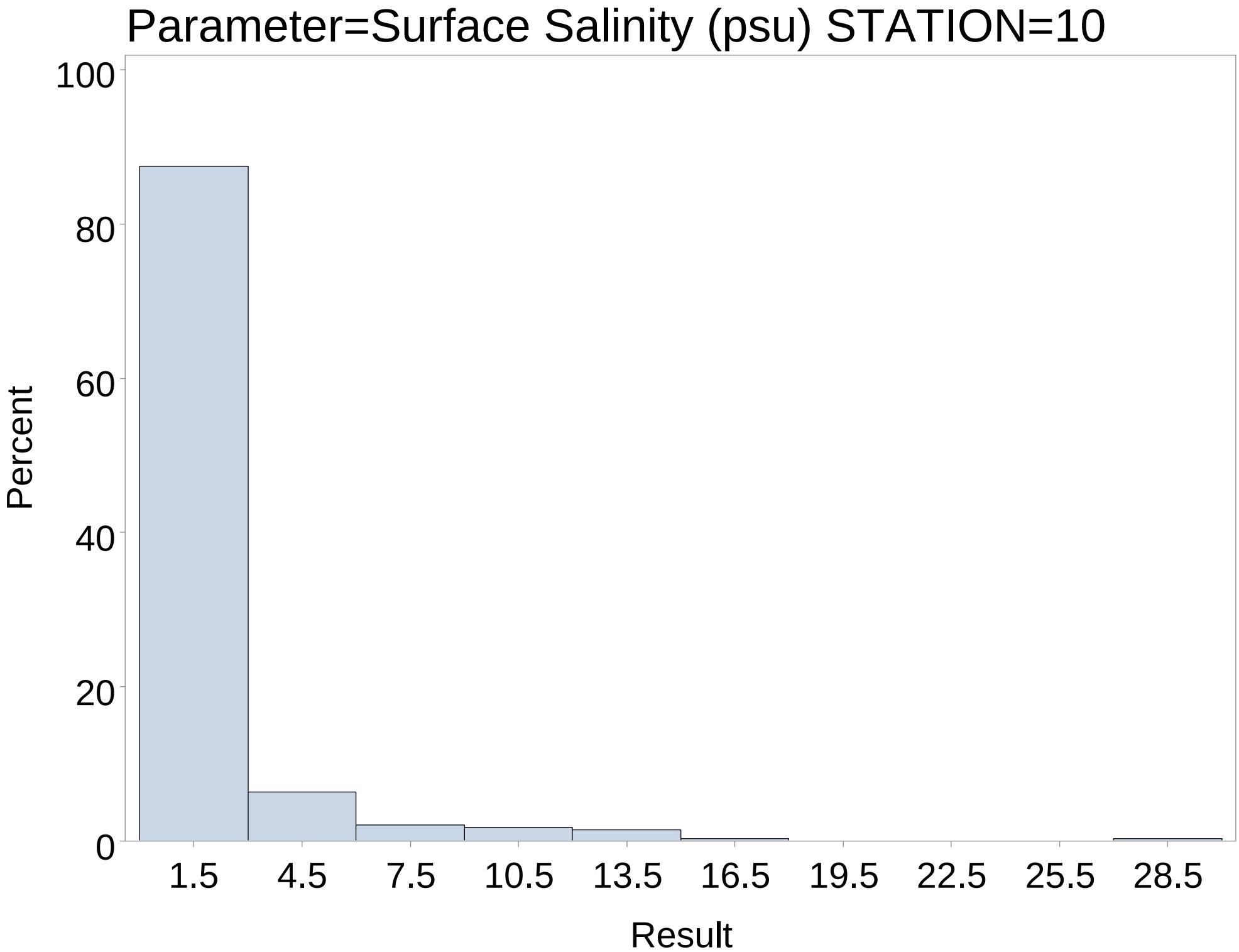
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	7.582896	**Pr > |t|**	<.0001
Sign	**M**	148.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	22126.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.700
99%	13.510
95%	7.870
90%	3.880
75% Q3	0.515
50% Median	0.300
25% Q1	0.130
10%	0.010
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	94716	13.38	94799
0	94715	13.51	94701
0	94693	13.86	94896
0	94692	16.50	94800
0	94691	29.70	94790


Parameter=Surface Salinity (psu) STATION=10
Percent
100
80
60
40
20
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	1.26120482	**Sum Observations**	418.72
Std Deviation	2.67229498	**Variance**	7.14116048
Skewness	3.21719455	**Kurtosis**	10.6725751
Uncorrected SS	2891.8158	**Corrected SS**	2363.72412
Coeff Variation	211.884298	**Std Error Mean**	0.14666124

Basic Statistical Measures			
Location		**Variability**	
Mean	1.261205	**Std Deviation**	2.67229
Median	0.305000	**Variance**	7.14116
Mode	0.000000	**Range**	16.58000
		Interquartile Range	0.41500

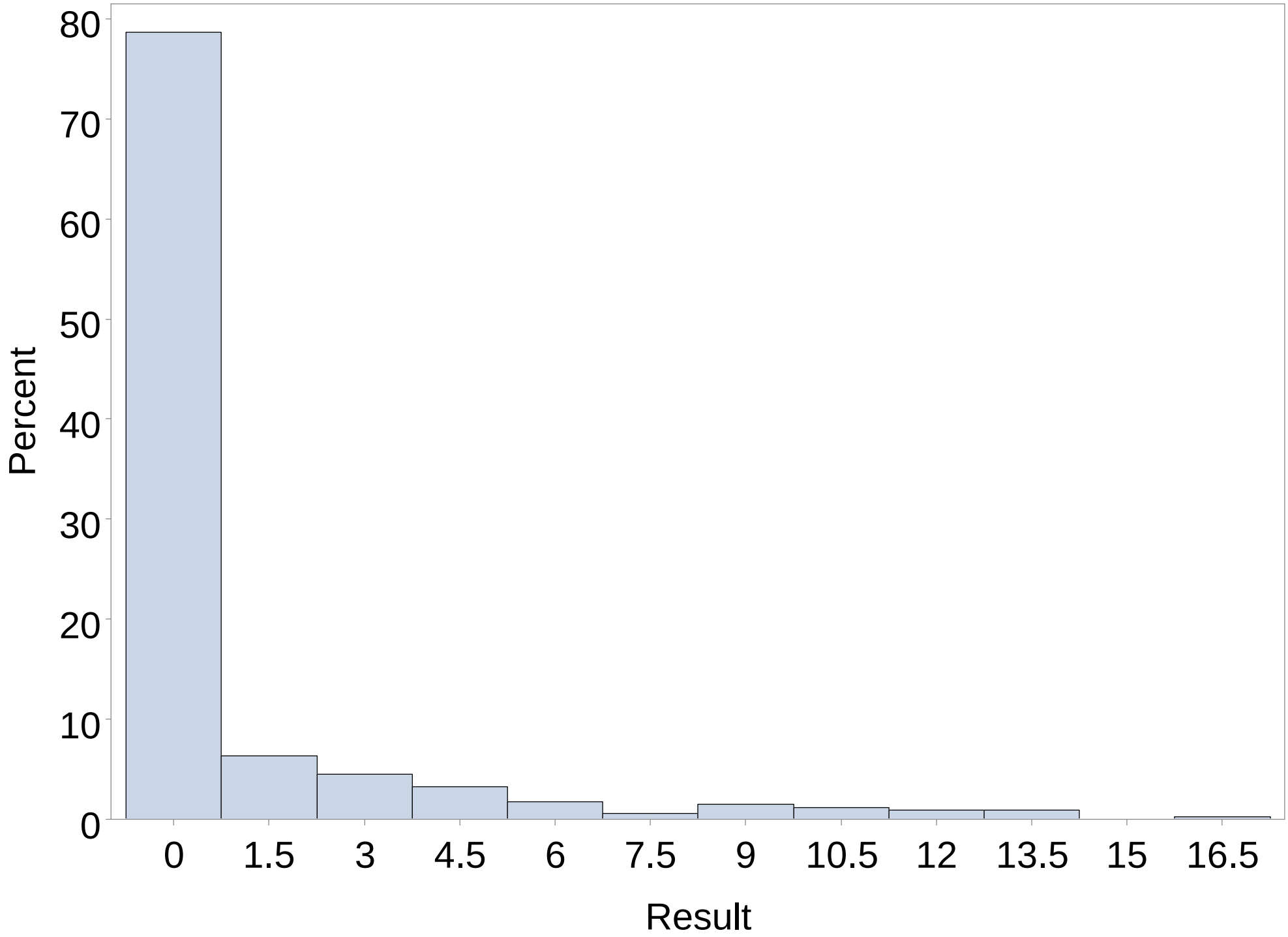
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.599442	**Pr > |t|**	<.0001
Sign	**M**	151	**Pr >= |M|**	<.0001
Signed Rank	**S**	22876.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.580
99%	13.340
95%	8.200
90%	3.970
75% Q3	0.560
50% Median	0.305
25% Q1	0.145
10%	0.010
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	95042	12.46	95131
0	95041	13.34	95026
0	95019	13.98	95228
0	95018	14.09	95027
0	95008	16.58	95132


Parameter=Surface Salinity (psu) STATION=11
Percent
80
70
60
50
40
30
20
10
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=12

Moments			
N	333	**Sum Weights**	333
Mean	1.70372372	**Sum Observations**	567.34
Std Deviation	3.07308084	**Variance**	9.44382585
Skewness	2.55773761	**Kurtosis**	6.41502912
Uncorrected SS	4101.9408	**Corrected SS**	3135.35018
Coeff Variation	180.374365	**Std Error Mean**	0.16840379

Basic Statistical Measures			
Location		**Variability**	
Mean	1.703724	**Std Deviation**	3.07308
Median	0.340000	**Variance**	9.44383
Mode	0.000000	**Range**	17.13000
		Interquartile Range	1.47000

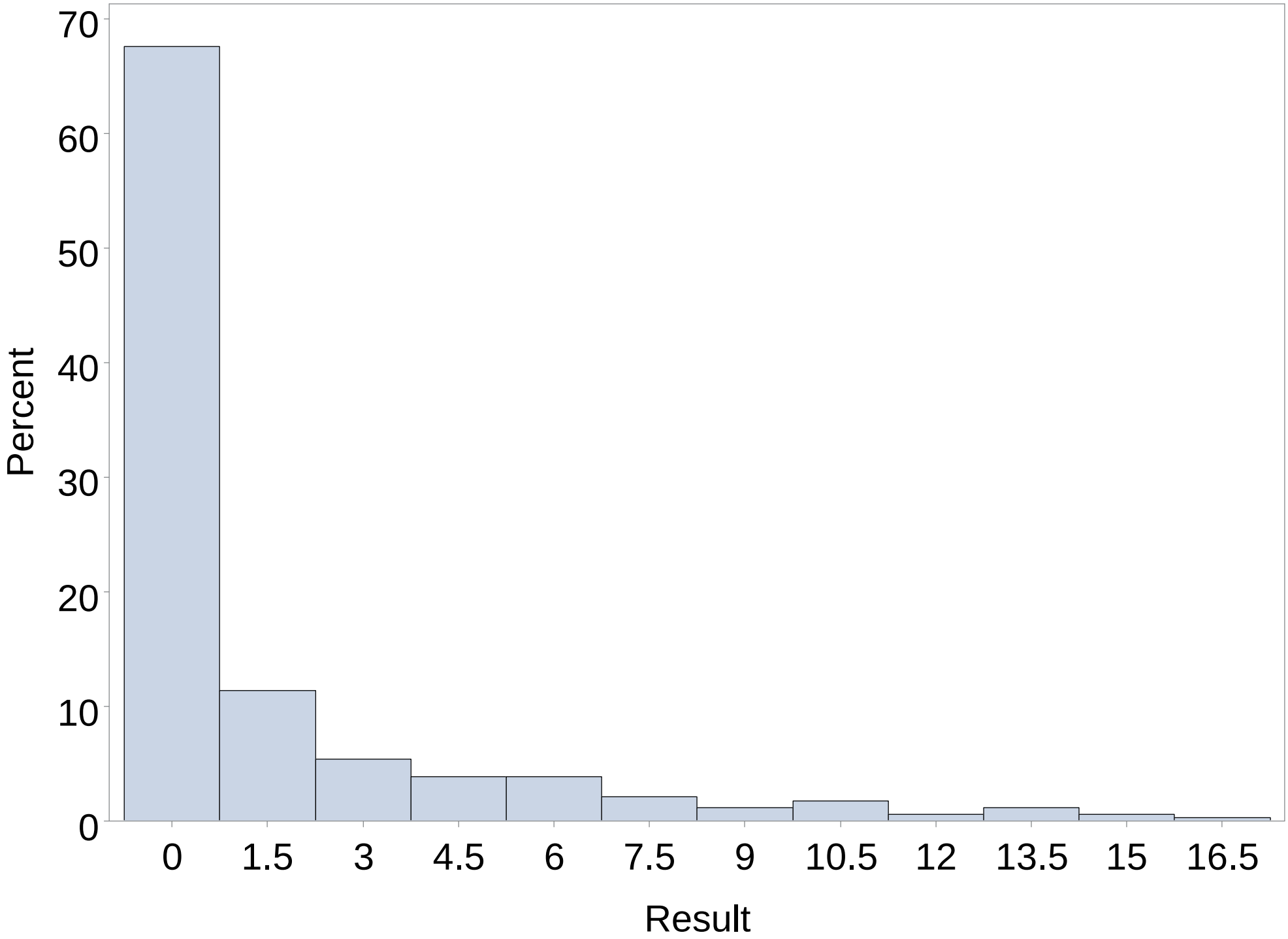
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.1169	**Pr > |t|**	<.0001
Sign	**M**	151.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23028	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.13
99%	13.49
95%	9.33
90%	6.04
75% Q3	1.61
50% Median	0.34
25% Q1	0.14
10%	0.01
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	95375	13.33	95455
0	95374	13.49	95501
0	95352	14.32	95464
0	95351	14.53	95561
0	95350	17.13	95465


Parameter=Surface Salinity (psu) STATION=12
Percent
70
60
50
40
30
20
10
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	1.92482036	**Sum Observations**	642.89
Std Deviation	3.30205111	**Variance**	10.9035416
Skewness	2.37344443	**Kurtosis**	5.44475821
Uncorrected SS	4868.3271	**Corrected SS**	3630.87934
Coeff Variation	171.551132	**Std Error Mean**	0.1806802

Basic Statistical Measures			
Location		**Variability**	
Mean	1.924820	**Std Deviation**	3.30205
Median	0.370000	**Variance**	10.90354
Mode	0.000000	**Range**	17.86000
		Interquartile Range	1.94000

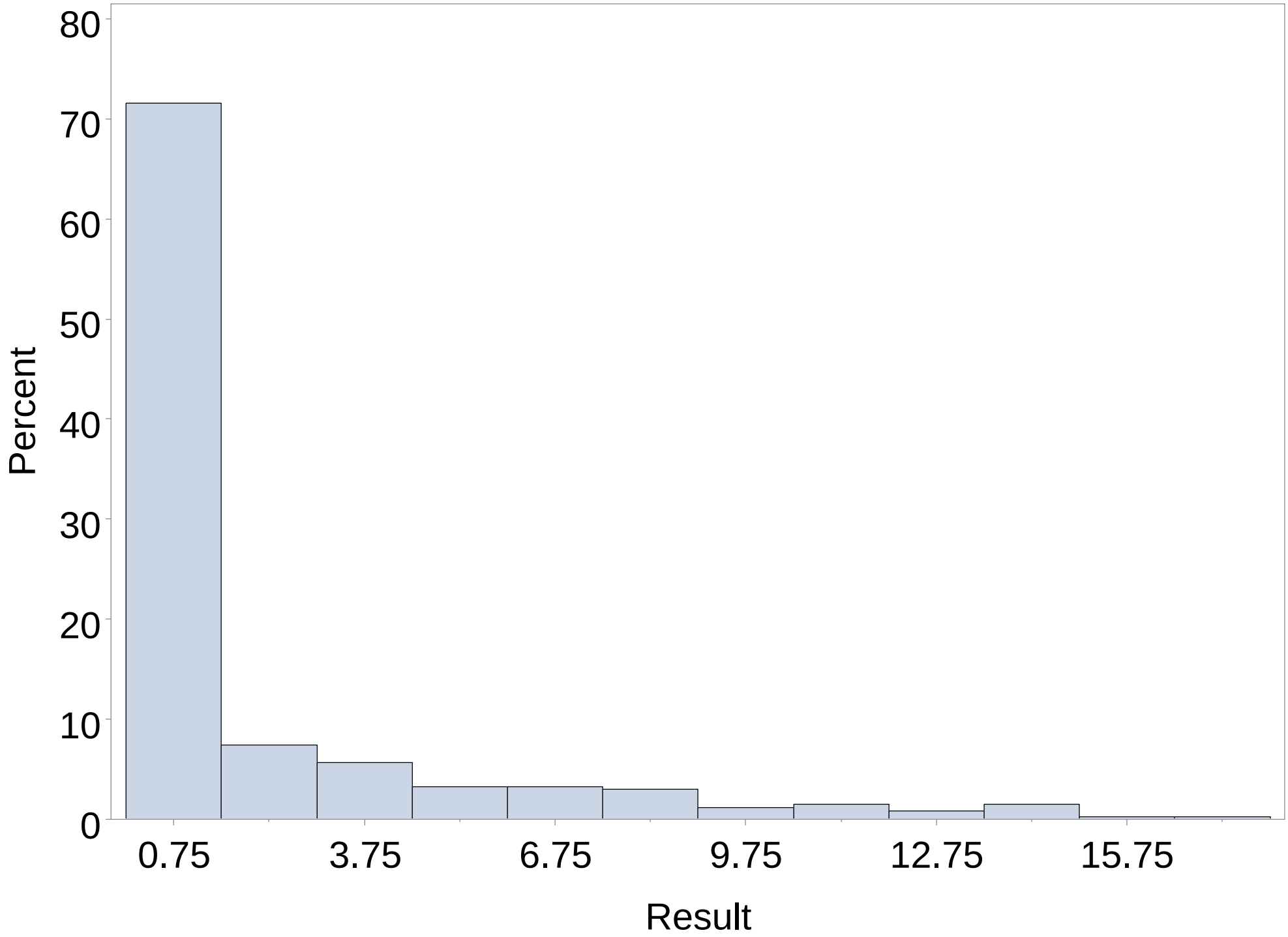
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.65319	**Pr > |t|**	<.0001
Sign	**M**	152	**Pr >= |M|**	<.0001
Signed Rank	**S**	23180	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.86
99%	14.76
95%	9.58
90%	6.45
75% Q3	2.10
50% Median	0.37
25% Q1	0.16
10%	0.02
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	95708	13.95	95835
0	95707	14.76	95798
0	95685	14.84	95895
0	95684	15.70	95693
0	95683	17.86	95799


Parameter=Surface Salinity (psu) STATION=13
Percent
80
70
60
50
40
30
20
10
0
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	2.55561562	**Sum Observations**	851.02
Std Deviation	3.91592585	**Variance**	15.3344753
Skewness	1.91992399	**Kurtosis**	3.11769285
Uncorrected SS	7265.9258	**Corrected SS**	5091.0458
Coeff Variation	153.22828	**Std Error Mean**	0.21459141

Basic Statistical Measures			
Location		**Variability**	
Mean	2.555616	**Std Deviation**	3.91593
Median	0.490000	**Variance**	15.33448
Mode	0.000000	**Range**	19.19000
		Interquartile Range	3.54000

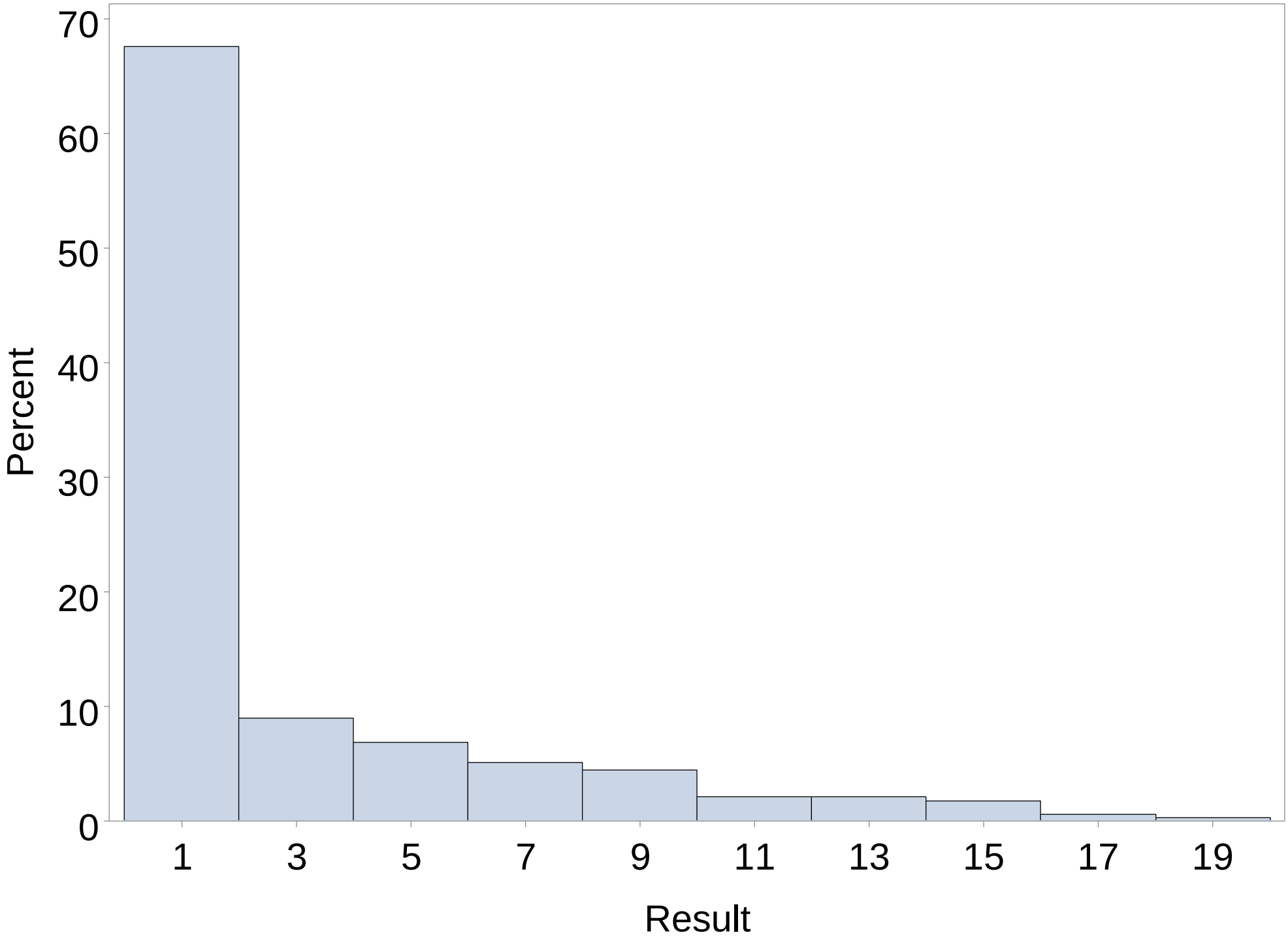
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.90922	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.19
99%	15.89
95%	11.98
90%	9.05
75% Q3	3.71
50% Median	0.49
25% Q1	0.17
10%	0.03
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	96042	15.78	96228
0	96041	15.89	96131
0	96019	16.08	96121
0	96018	16.35	96026
0	96017	19.19	96132


Parameter=Surface Salinity (psu) STATION=14
Percent
70
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=15

Moments			
N	331	**Sum Weights**	331
Mean	4.21951662	**Sum Observations**	1396.66
Std Deviation	5.28425859	**Variance**	27.9233889
Skewness	1.36742217	**Kurtosis**	1.05230376
Uncorrected SS	15107.9484	**Corrected SS**	9214.71832
Coeff Variation	125.233743	**Std Error Mean**	0.29044912

Basic Statistical Measures			
Location		**Variability**	
Mean	4.219517	**Std Deviation**	5.28426
Median	1.640000	**Variance**	27.92339
Mode	0.000000	**Range**	22.99000
		Interquartile Range	6.99000

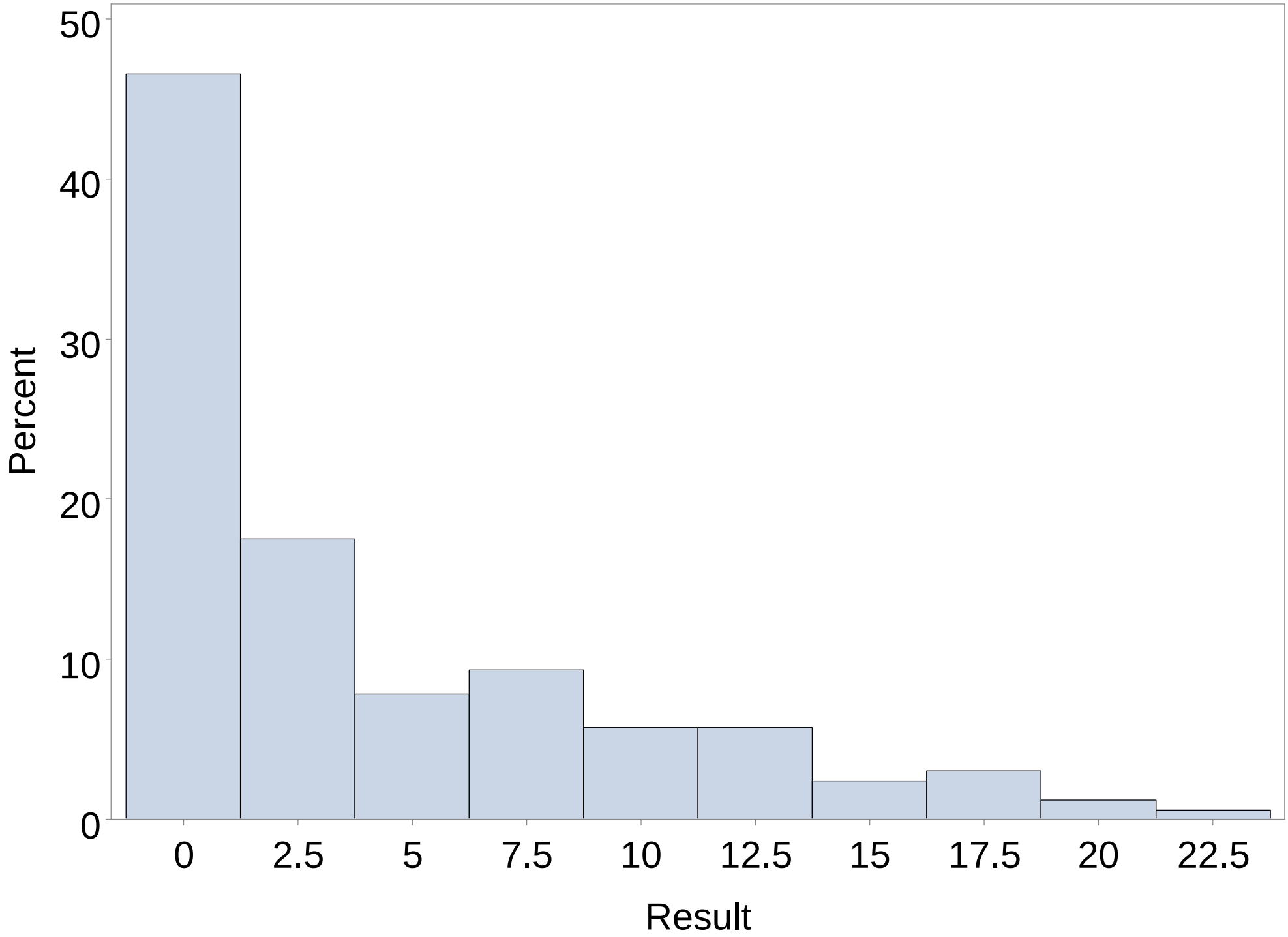
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.52756	**Pr > |t|**	<.0001
Sign	**M**	154	**Pr >= |M|**	<.0001
Signed Rank	**S**	23793	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	22.99
99%	19.07
95%	15.65
90%	12.20
75% Q3	7.20
50% Median	1.64
25% Q1	0.21
10%	0.07
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	96373	18.97	96440
0	96372	19.07	96499
0	96352	21.18	96452
0	96351	22.29	96463
0	96350	22.99	96451


Parameter=Surface Salinity (psu) STATION=15
Percent
50
40
30
20
10
0
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=16

Moments			
N	332	**Sum Weights**	332
Mean	6.6514759	**Sum Observations**	2208.29
Std Deviation	6.79005515	**Variance**	46.1048489
Skewness	0.85698528	**Kurtosis**	-0.2869021
Uncorrected SS	29949.0927	**Corrected SS**	15260.705
Coeff Variation	102.083436	**Std Error Mean**	0.37265269

Basic Statistical Measures			
Location		**Variability**	
Mean	6.651476	**Std Deviation**	6.79006
Median	4.395000	**Variance**	46.10485
Mode	0.000000	**Range**	28.83000
		Interquartile Range	11.63500

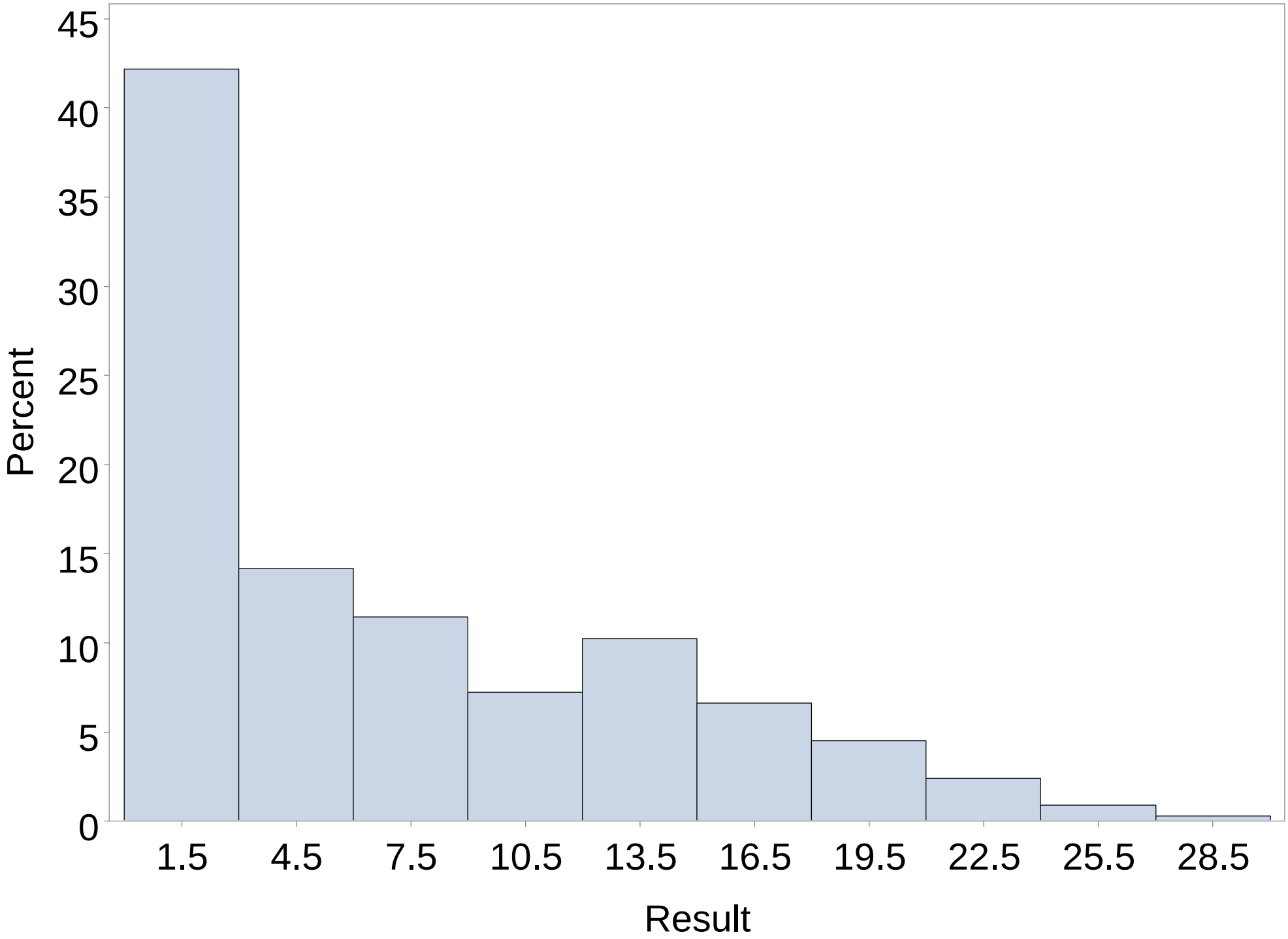
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.84899	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.830
99%	24.450
95%	19.790
90%	17.230
75% Q3	11.985
50% Median	4.395
25% Q1	0.350
10%	0.120
5%	0.000
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	96706	23.55	96772
0	96683	24.45	96713
0	96682	24.70	96784
0	96670	25.20	96795
0	96665	28.83	96783


Parameter=Surface Salinity (psu) STATION=16
Percent
45
40
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=17

Moments			
N	331	**Sum Weights**	331
Mean	7.87274924	**Sum Observations**	2605.88
Std Deviation	7.27961816	**Variance**	52.9928406
Skewness	0.66313135	**Kurtosis**	-0.564821
Uncorrected SS	38003.0772	**Corrected SS**	17487.6374
Coeff Variation	92.4660235	**Std Error Mean**	0.400124

Basic Statistical Measures			
Location		**Variability**	
Mean	7.872749	**Std Deviation**	7.27962
Median	6.330000	**Variance**	52.99284
Mode	0.000000	**Range**	31.13000
		Interquartile Range	12.91000

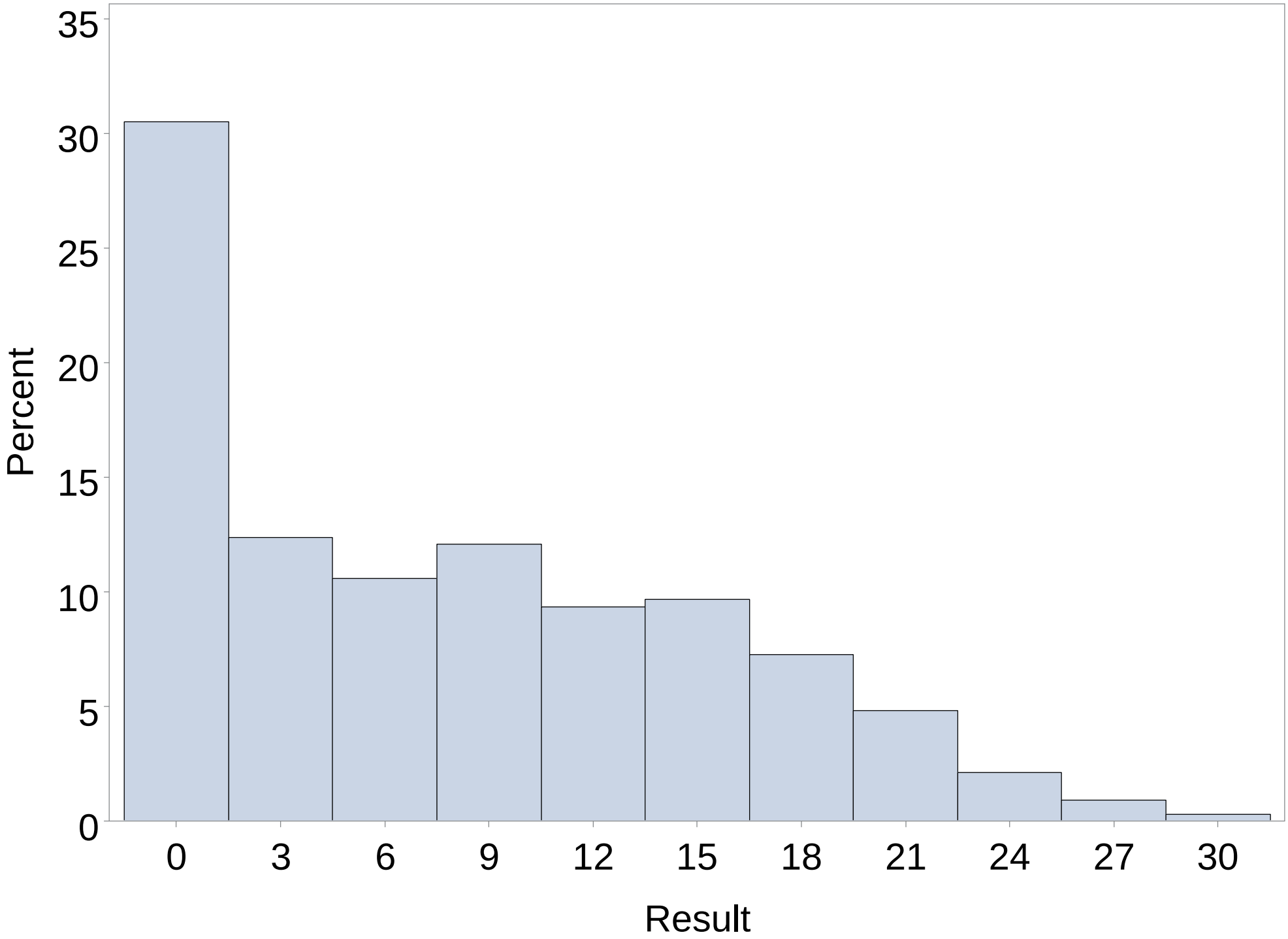
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.67577	**Pr > |t|**	<.0001
Sign	**M**	156.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24570.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.13
99%	25.87
95%	20.91
90%	18.65
75% Q3	13.63
50% Median	6.33
25% Q1	0.72
10%	0.12
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	97037	25.44	97104
0	97015	25.87	97044
0	97002	26.17	97126
0	96997	26.33	97115
0	96996	31.13	97114


Parameter=Surface Salinity (psu) STATION=17
Percent
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	5.83115502	**Sum Observations**	1918.45
Std Deviation	6.46445222	**Variance**	41.7891426
Skewness	1.02898356	**Kurtosis**	0.05923677
Uncorrected SS	24893.6181	**Corrected SS**	13706.8388
Coeff Variation	110.860579	**Std Error Mean**	0.35639679

Basic Statistical Measures			
Location		**Variability**	
Mean	5.831155	**Std Deviation**	6.46445
Median	3.330000	**Variance**	41.78914
Mode	0.000000	**Range**	26.99000
		Interquartile Range	9.76000

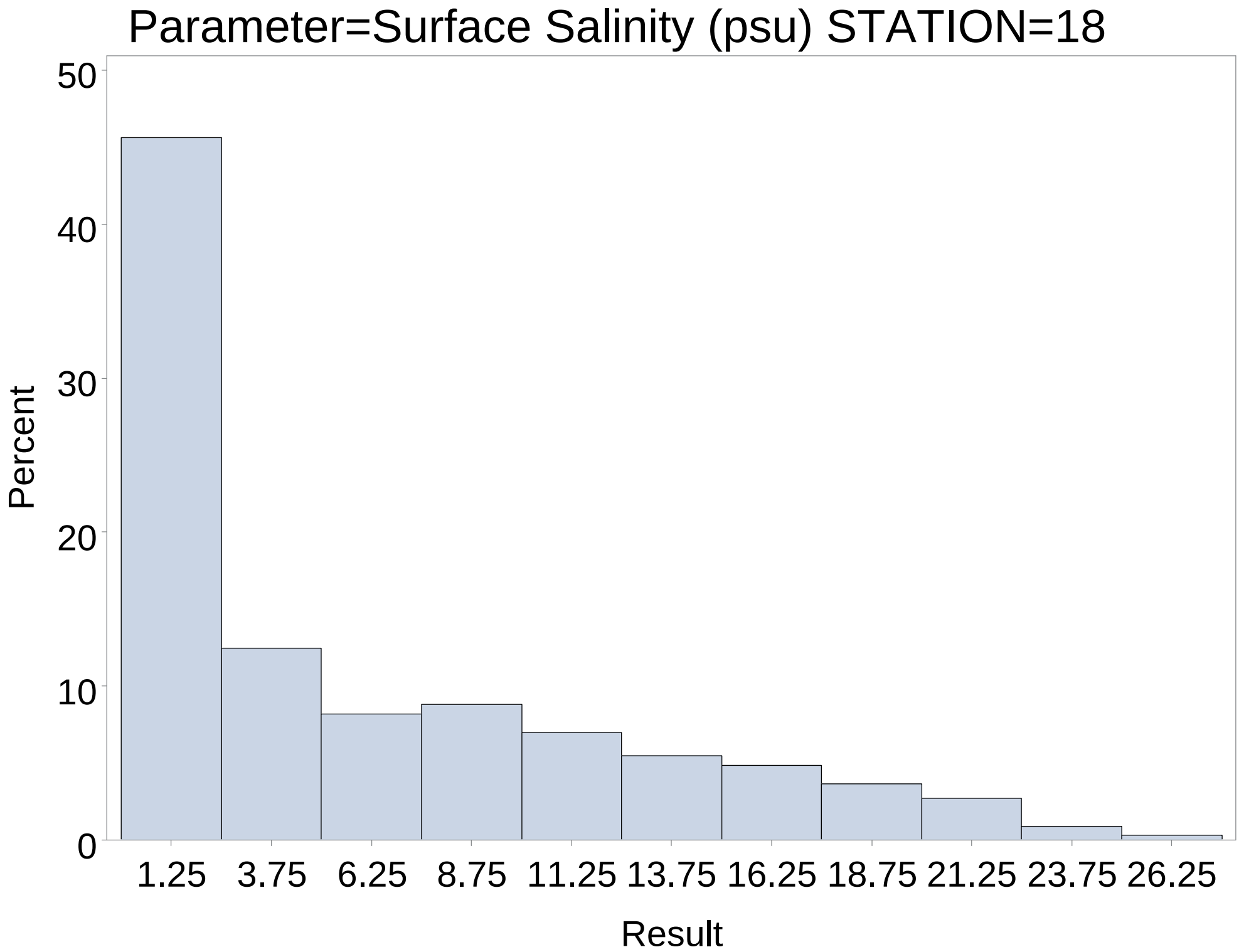
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.36141	**Pr > |t|**	<.0001
Sign	**M**	148.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	22126.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.99
99%	22.71
95%	18.89
90%	16.30
75% Q3	9.97
50% Median	3.33
25% Q1	0.21
10%	0.01
5%	0.00
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	97367	22.30	97454
0	97366	22.71	97434
0	97344	24.17	97456
0	97343	24.26	97445
0	97342	26.99	97444


Parameter=Surface Salinity (psu) STATION=18
Percent
50
40
30
20
10
0
1.25
3.75
6.25
8.75
11.25
13.75
16.25
18.75
21.25
23.75
26.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=19

Moments			
N	329	**Sum Weights**	329
Mean	10.4356839	**Sum Observations**	3433.34
Std Deviation	8.08244448	**Variance**	65.3259088
Skewness	0.3362792	**Kurtosis**	-0.8709405
Uncorrected SS	57256.149	**Corrected SS**	21426.8981
Coeff Variation	77.45007	**Std Error Mean**	0.44559959

Basic Statistical Measures			
Location		**Variability**	
Mean	10.43568	**Std Deviation**	8.08244
Median	9.79000	**Variance**	65.32591
Mode	0.00000	**Range**	35.07000
		Interquartile Range	14.36000

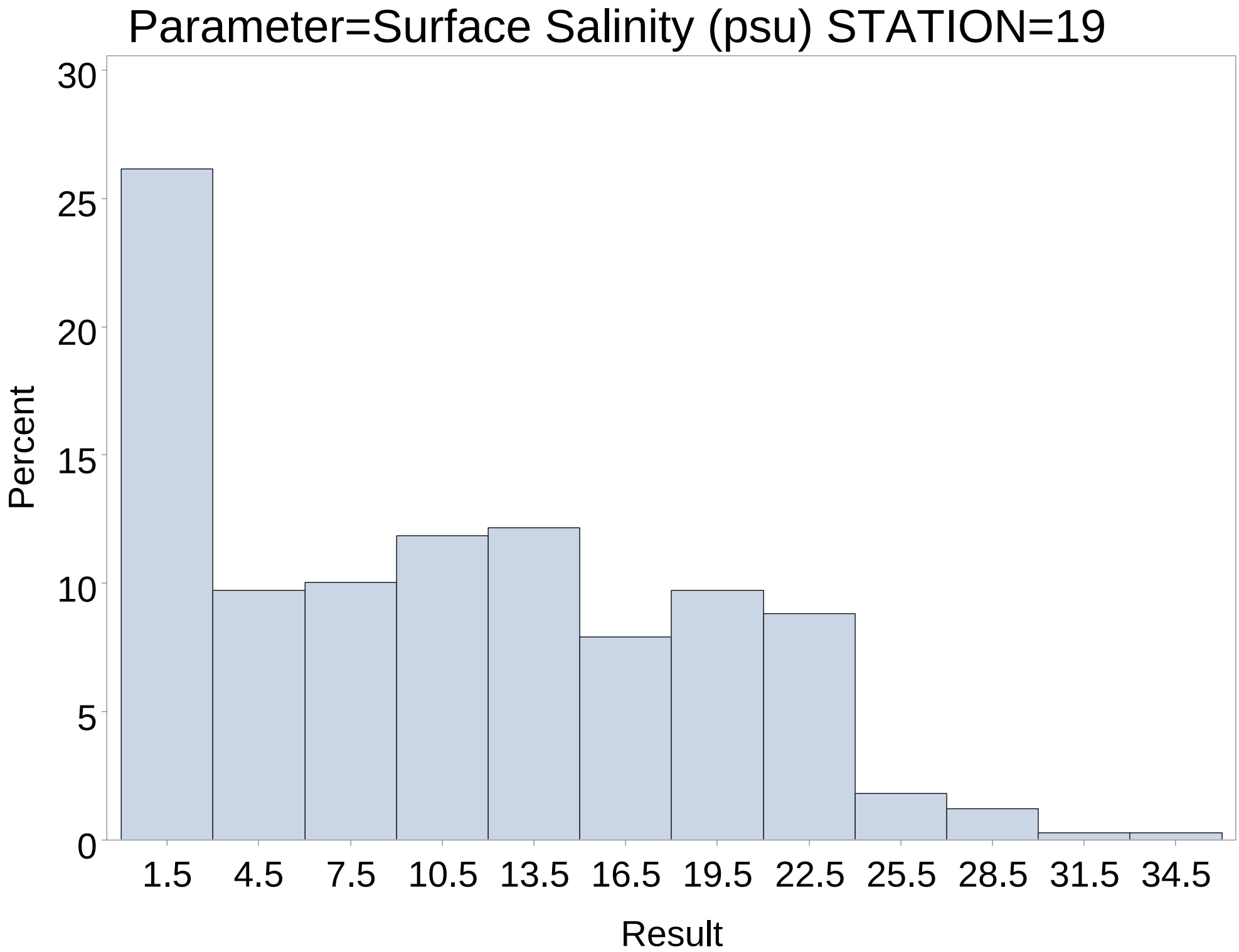
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.41942	**Pr > |t|**	<.0001
Sign	**M**	157.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24885	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	35.07
99%	28.12
95%	23.78
90%	21.80
75% Q3	16.89
50% Median	9.79
25% Q1	2.53
10%	0.16
5%	0.04
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	97698	28.06	97763
0	97697	28.12	97770
0	97662	28.61	97774
0	97657	30.93	97705
0	97656	35.07	97773


Parameter=Surface Salinity (psu) STATION=19
Percent
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
34.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	0.09	**Sum Observations**	0.09
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	0.0081	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	0.090000	**Std Deviation**	.
Median	0.090000	**Variance**	.
Mode	0.090000	**Range**	0
		Interquartile Range	0

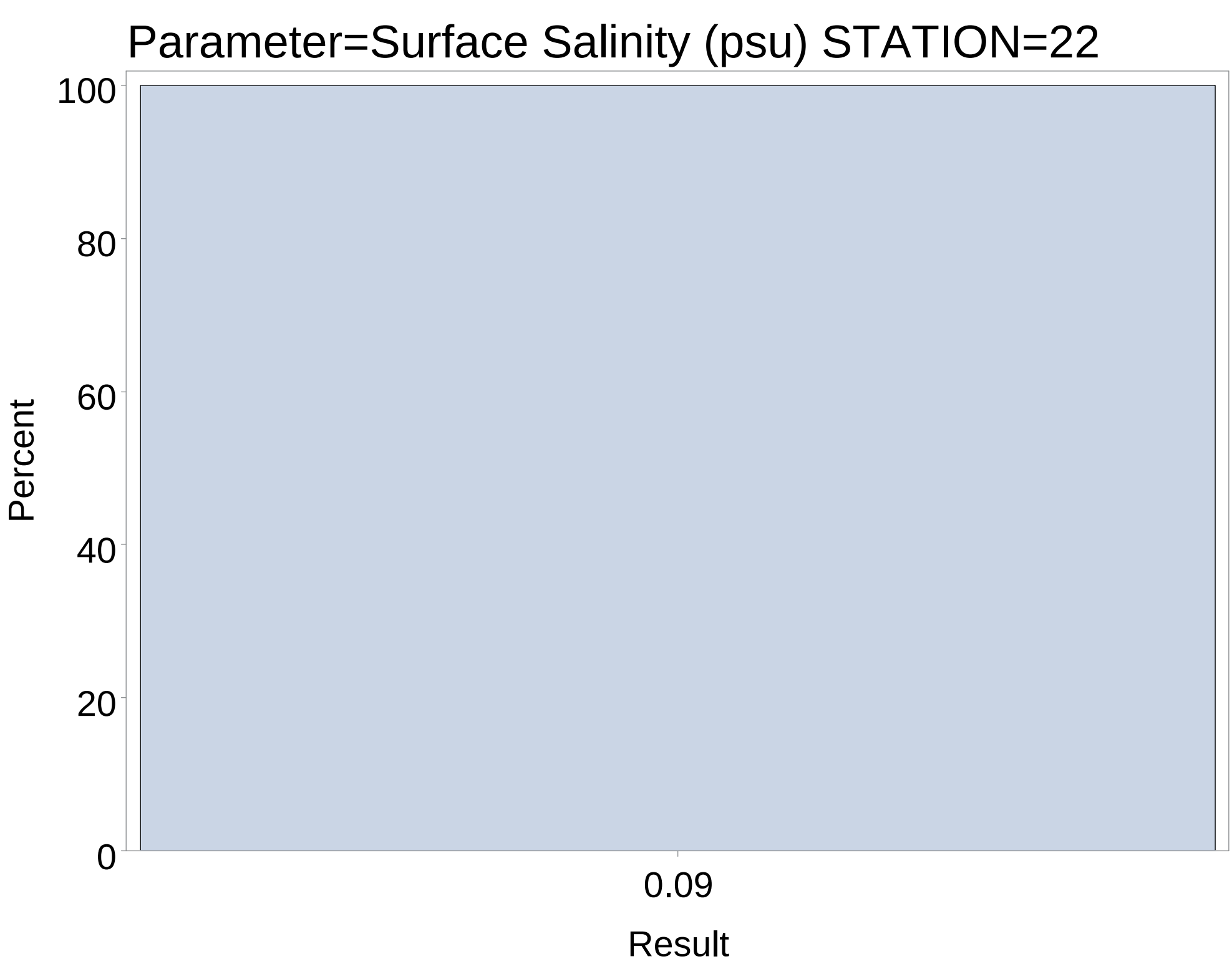
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.09
99%	0.09
95%	0.09
90%	0.09
75% Q3	0.09
50% Median	0.09
25% Q1	0.09
10%	0.09
5%	0.09
1%	0.09
0% Min	0.09

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Salinity (psu) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.09	97900	0.09	97900


Parameter=Surface Salinity (psu) STATION=22
100
80
60
40
20
0
Percent
0.09
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	0.2791686	**Sum Observations**	93.5214802
Std Deviation	0.33826024	**Variance**	0.11441999
Skewness	8.46688	**Kurtosis**	100.037696
Uncorrected SS	64.3245376	**Corrected SS**	38.2162771
Coeff Variation	121.16701	**Std Error Mean**	0.01848113

Basic Statistical Measures			
Location		**Variability**	
Mean	0.279169	**Std Deviation**	0.33826
Median	0.260000	**Variance**	0.11442
Mode	0.000000	**Range**	4.67625
		Interquartile Range	0.26000

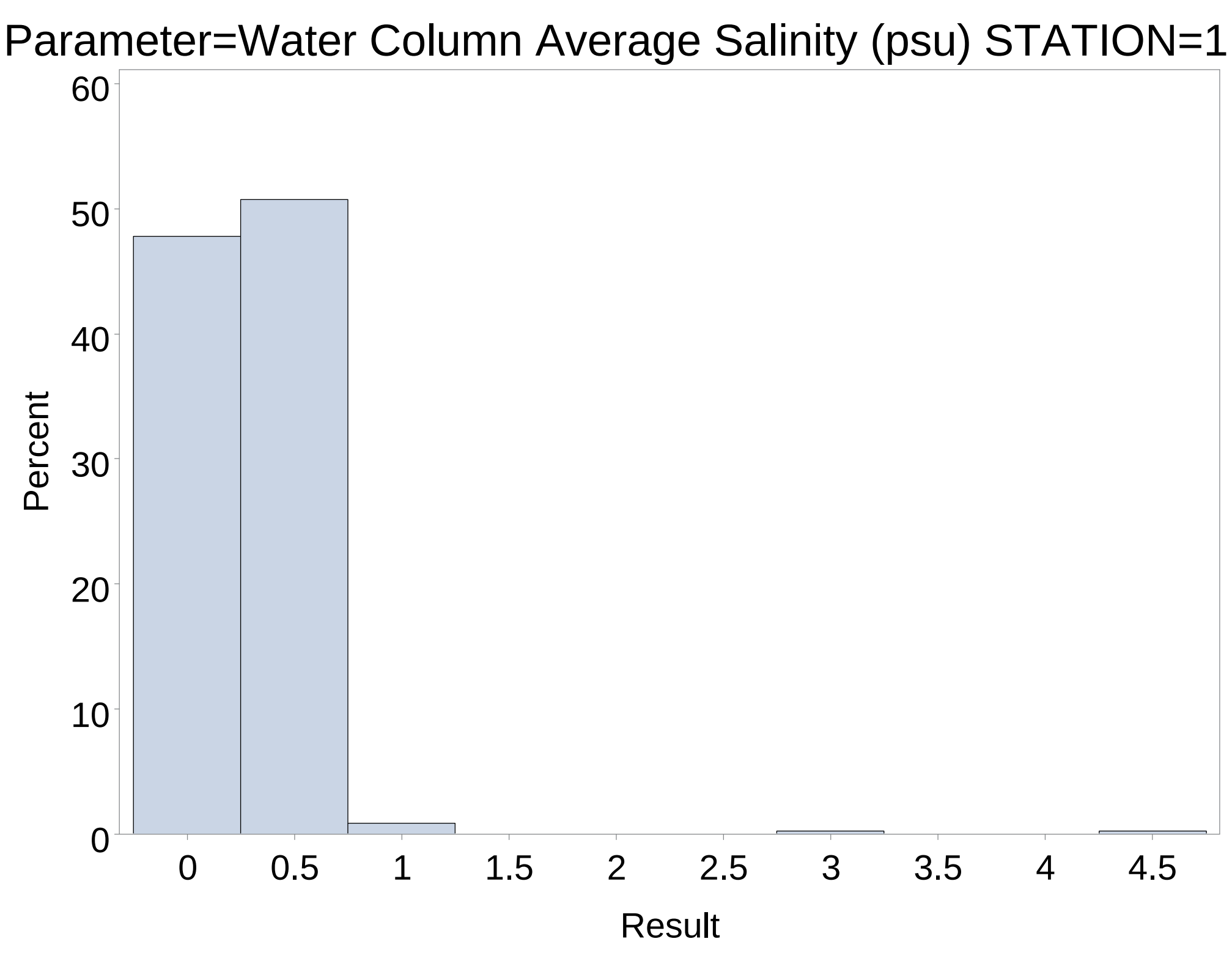
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.1056	**Pr > |t|**	<.0001
Sign	**M**	151	**Pr >= |M|**	<.0001
Signed Rank	**S**	22876.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.676250
99%	0.822500
95%	0.560000
90%	0.488571
75% Q3	0.380000
50% Median	0.260000
25% Q1	0.120000
10%	0.001250
5%	0.000000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	98028	0.79000	98033
0	98027	0.82250	98034
0	98026	0.88375	98035
0	98005	3.15000	97993
0	98004	4.67625	97940


Parameter=Water Column Average Salinity (psu) STATION=1
Percent
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	0.38537334	**Sum Observations**	128.329321
Std Deviation	0.23755574	**Variance**	0.05643273
Skewness	2.37996847	**Kurtosis**	17.8442623
Uncorrected SS	68.1903641	**Corrected SS**	18.7356658
Coeff Variation	61.6430135	**Std Error Mean**	0.01301797

Basic Statistical Measures			
Location		**Variability**	
Mean	0.385373	**Std Deviation**	0.23756
Median	0.373333	**Variance**	0.05643
Mode	0.000000	**Range**	2.45000
		Interquartile Range	0.27375

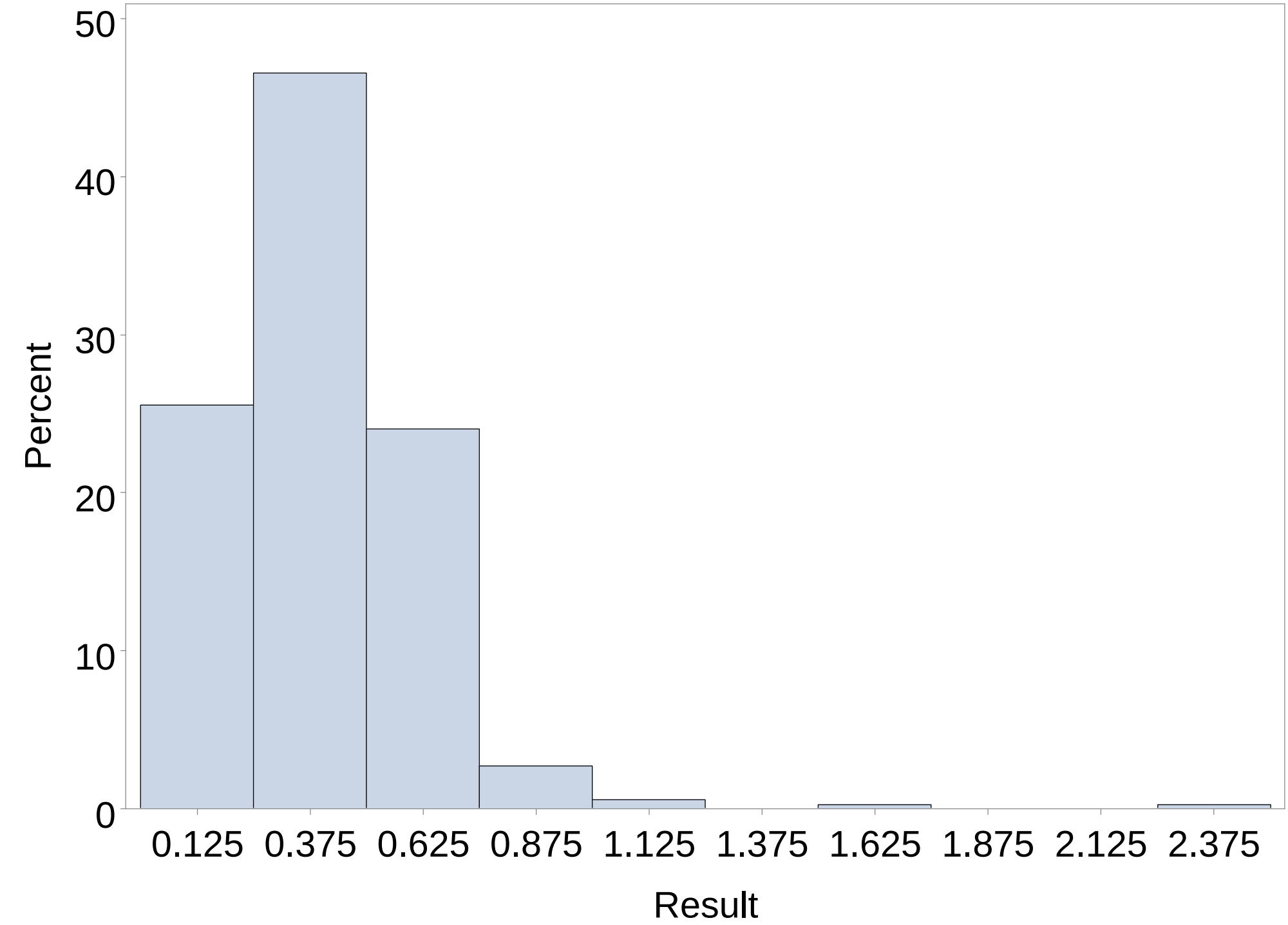
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	29.60317	**Pr > |t|**	<.0001
Sign	**M**	159.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	25520	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.450000
99%	1.005000
95%	0.700000
90%	0.605000
75% Q3	0.513750
50% Median	0.373333
25% Q1	0.240000
10%	0.120000
5%	0.020000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	98362	0.93500	98368
0	98361	1.00500	98369
0	98338	1.07286	98323
0	98326	1.56667	98417
0	98304	2.45000	98328


Parameter=Water Column Average Salinity (psu) STATION=2
Percent
50
40
30
20
10
0
0.125
0.375
0.625
0.875
1.125
1.375
1.625
1.875
2.125
2.375
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	0.31528764	**Sum Observations**	104.990786
Std Deviation	0.45264537	**Variance**	0.20488783
Skewness	8.12195953	**Kurtosis**	76.501672
Uncorrected SS	101.125058	**Corrected SS**	68.0227601
Coeff Variation	143.565845	**Std Error Mean**	0.02480481

Basic Statistical Measures			
Location		**Variability**	
Mean	0.315288	**Std Deviation**	0.45265
Median	0.280000	**Variance**	0.20489
Mode	0.000000	**Range**	4.71667
		Interquartile Range	0.27000

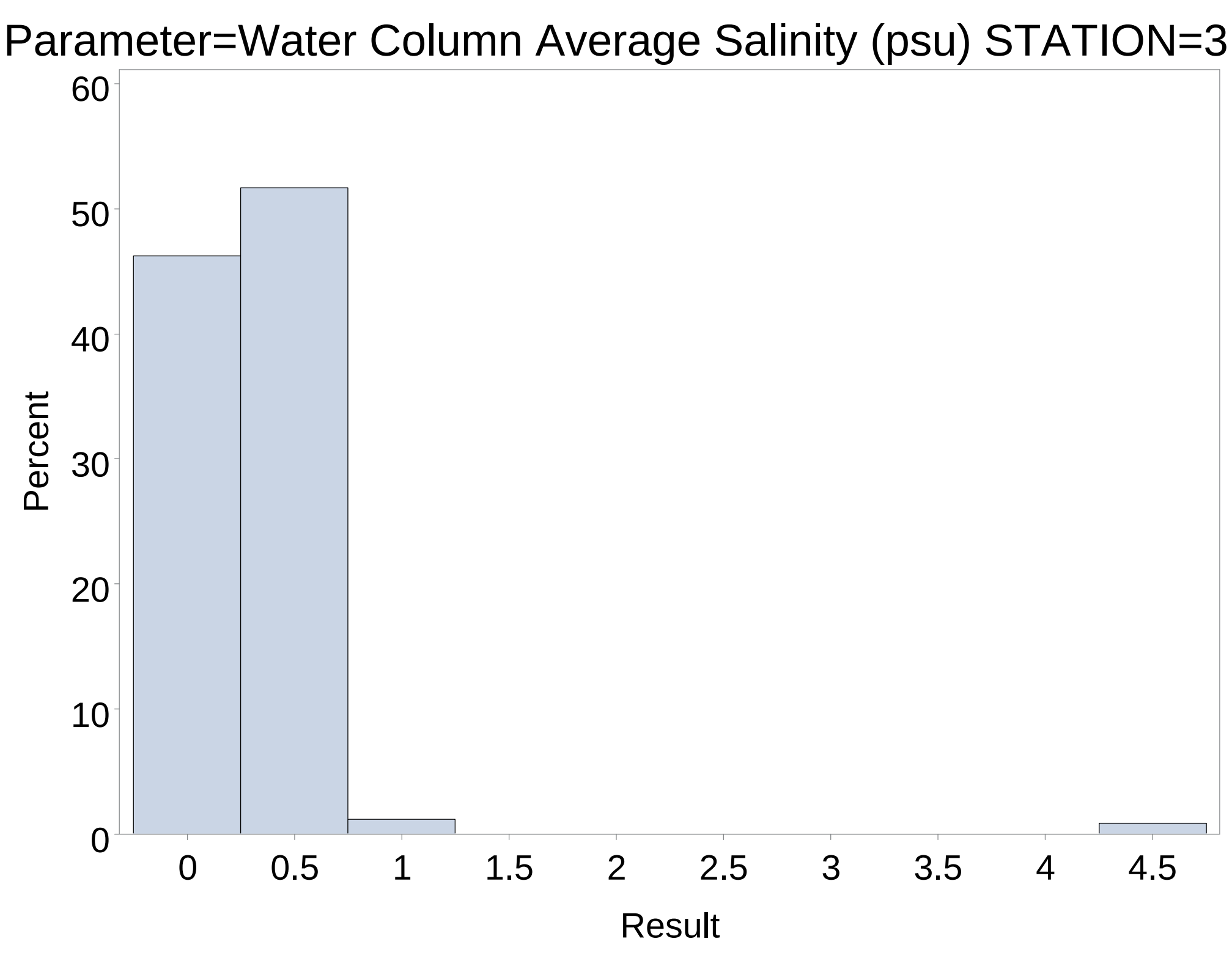
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.71074	**Pr > |t|**	<.0001
Sign	**M**	154	**Pr >= |M|**	<.0001
Signed Rank	**S**	23793	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.71667
99%	0.87000
95%	0.57000
90%	0.50000
75% Q3	0.41000
50% Median	0.28000
25% Q1	0.14000
10%	0.02000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	98694	0.81200	98695
0	98673	0.87000	98702
0	98660	4.64000	98608
0	98655	4.67889	98720
0	98653	4.71667	98820


Parameter=Water Column Average Salinity (psu) STATION=3
Percent
60
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=4

Moments			
N	334	**Sum Weights**	334
Mean	2.00246531	**Sum Observations**	668.823413
Std Deviation	3.42918483	**Variance**	11.7593086
Skewness	2.11044605	**Kurtosis**	3.86087534
Uncorrected SS	5255.14545	**Corrected SS**	3915.84977
Coeff Variation	171.248152	**Std Error Mean**	0.18763665

Basic Statistical Measures			
Location		**Variability**	
Mean	2.002465	**Std Deviation**	3.42918
Median	0.323611	**Variance**	11.75931
Mode	0.000000	**Range**	17.56600
		Interquartile Range	1.98800

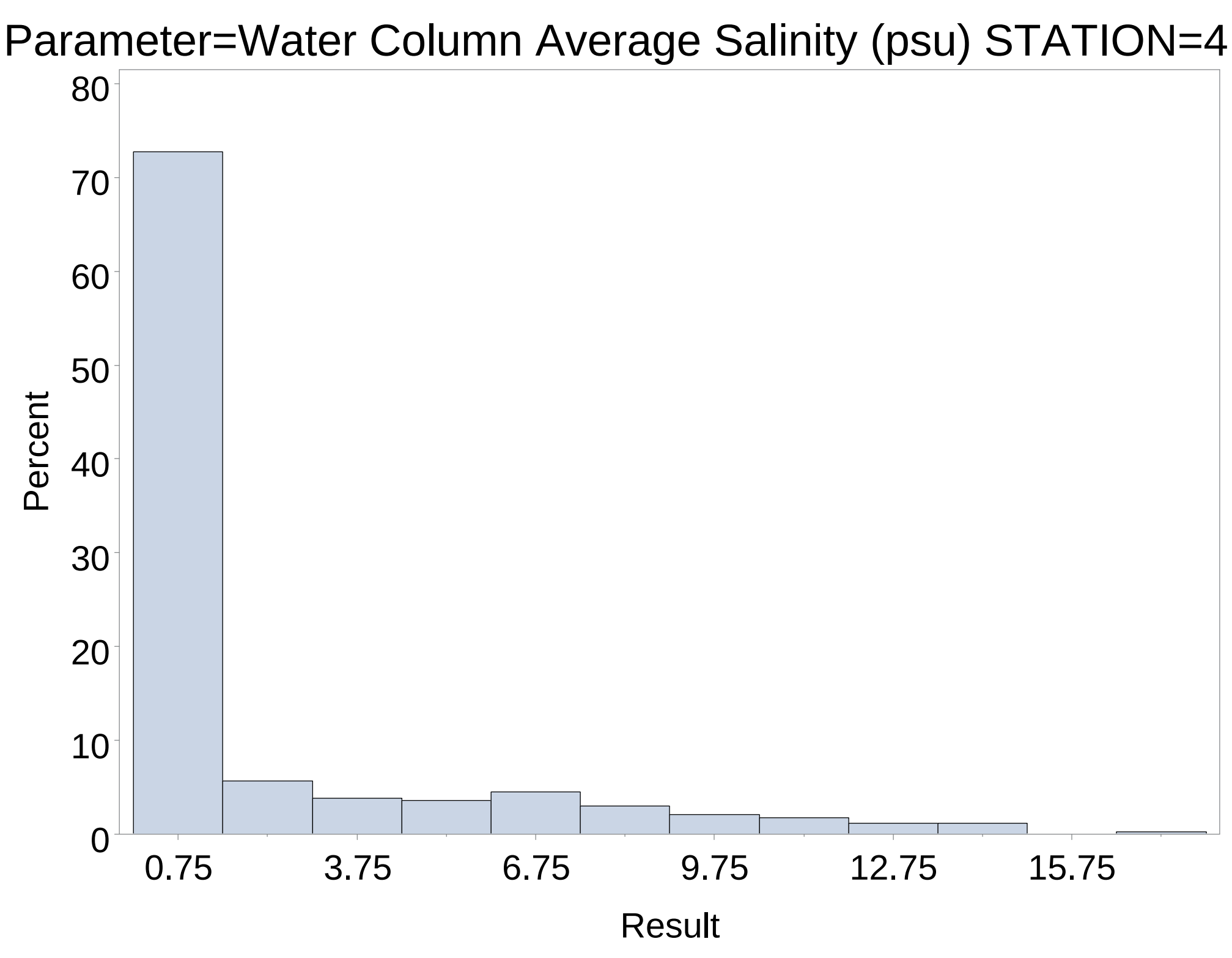
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	10.67204	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.5660000
99%	14.6025000
95%	10.2575000
90%	7.3483333
75% Q3	2.1280000
50% Median	0.3236111
25% Q1	0.1400000
10%	0.0183333
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	99029	13.7033	99119
0	99028	14.6025	99013
0	99006	14.6520	99216
0	99004	14.9860	99014
0	98993	17.5660	99120


Parameter=Water Column Average Salinity (psu) STATION=4
Percent
80
70
60
50
40
30
20
10
0
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	2.36068358	**Sum Observations**	790.829
Std Deviation	3.75980083	**Variance**	14.1361023
Skewness	2.01506583	**Kurtosis**	3.51960473
Uncorrected SS	6588.35519	**Corrected SS**	4721.45815
Coeff Variation	159.267462	**Std Error Mean**	0.20541986

Basic Statistical Measures			
Location		**Variability**	
Mean	2.360684	**Std Deviation**	3.75980
Median	0.432000	**Variance**	14.13610
Mode	0.000000	**Range**	18.83400
		Interquartile Range	2.90667

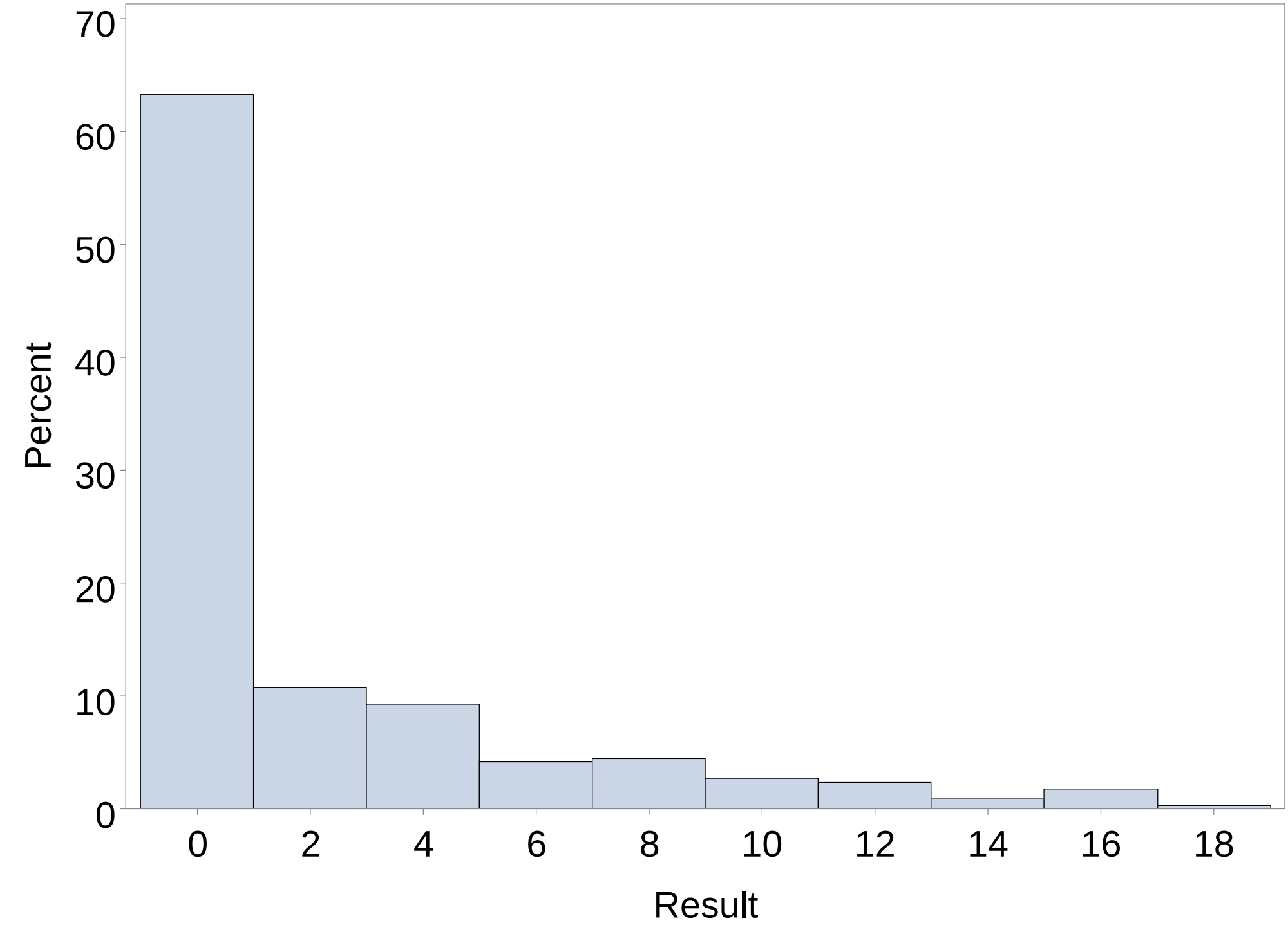
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.49199	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.8340000
99%	15.3900000
95%	11.2625000
90%	8.2700000
75% Q3	3.0666667
50% Median	0.4320000
25% Q1	0.1600000
10%	0.0133333
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	99364	15.380	99444
0	99363	15.390	99454
0	99341	15.682	99551
0	99340	15.795	99349
0	99339	18.834	99455


Parameter=Water Column Average Salinity (psu) STATION=5
Percent
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	3.60189497	**Sum Observations**	1199.43102
Std Deviation	4.91122889	**Variance**	24.1201692
Skewness	1.50923546	**Kurtosis**	1.43505794
Uncorrected SS	12328.1208	**Corrected SS**	8007.89619
Coeff Variation	136.351252	**Std Error Mean**	0.26913369

Basic Statistical Measures			
Location		**Variability**	
Mean	3.601895	**Std Deviation**	4.91123
Median	0.842500	**Variance**	24.12017
Mode	0.000000	**Range**	21.14400
		Interquartile Range	5.82150

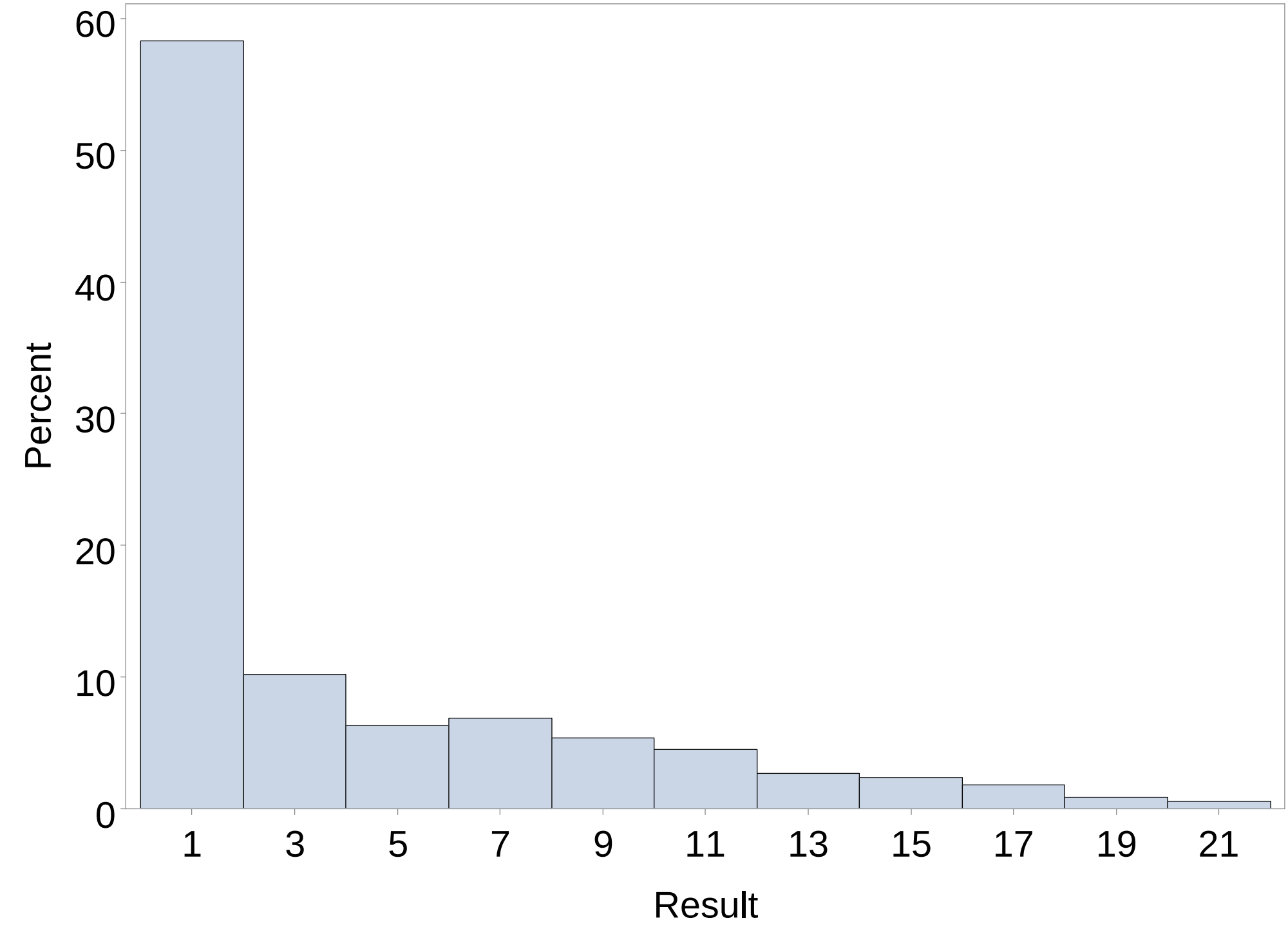
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	13.38329	**Pr > |t|**	<.0001
Sign	**M**	154	**Pr >= |M|**	<.0001
Signed Rank	**S**	23793	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	21.1440
99%	18.3680
95%	14.8450
90%	11.3360
75% Q3	6.0075
50% Median	0.8425
25% Q1	0.1860
10%	0.0350
5%	0.0000
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	99698	18.0800	99824
0	99697	18.3680	99884
0	99675	19.9450	99777
0	99674	21.0333	99776
0	99673	21.1440	99788


Parameter=Water Column Average Salinity (psu) STATION=6
Percent
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
21
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	5.80830143	**Sum Observations**	1934.16438
Std Deviation	6.23380874	**Variance**	38.8603714
Skewness	0.98941073	**Kurtosis**	-0.0213224
Uncorrected SS	24135.853	**Corrected SS**	12901.6433
Coeff Variation	107.325848	**Std Error Mean**	0.34161061

Basic Statistical Measures			
Location		**Variability**	
Mean	5.808301	**Std Deviation**	6.23381
Median	3.926000	**Variance**	38.86037
Mode	0.000000	**Range**	25.83000
		Interquartile Range	9.67000

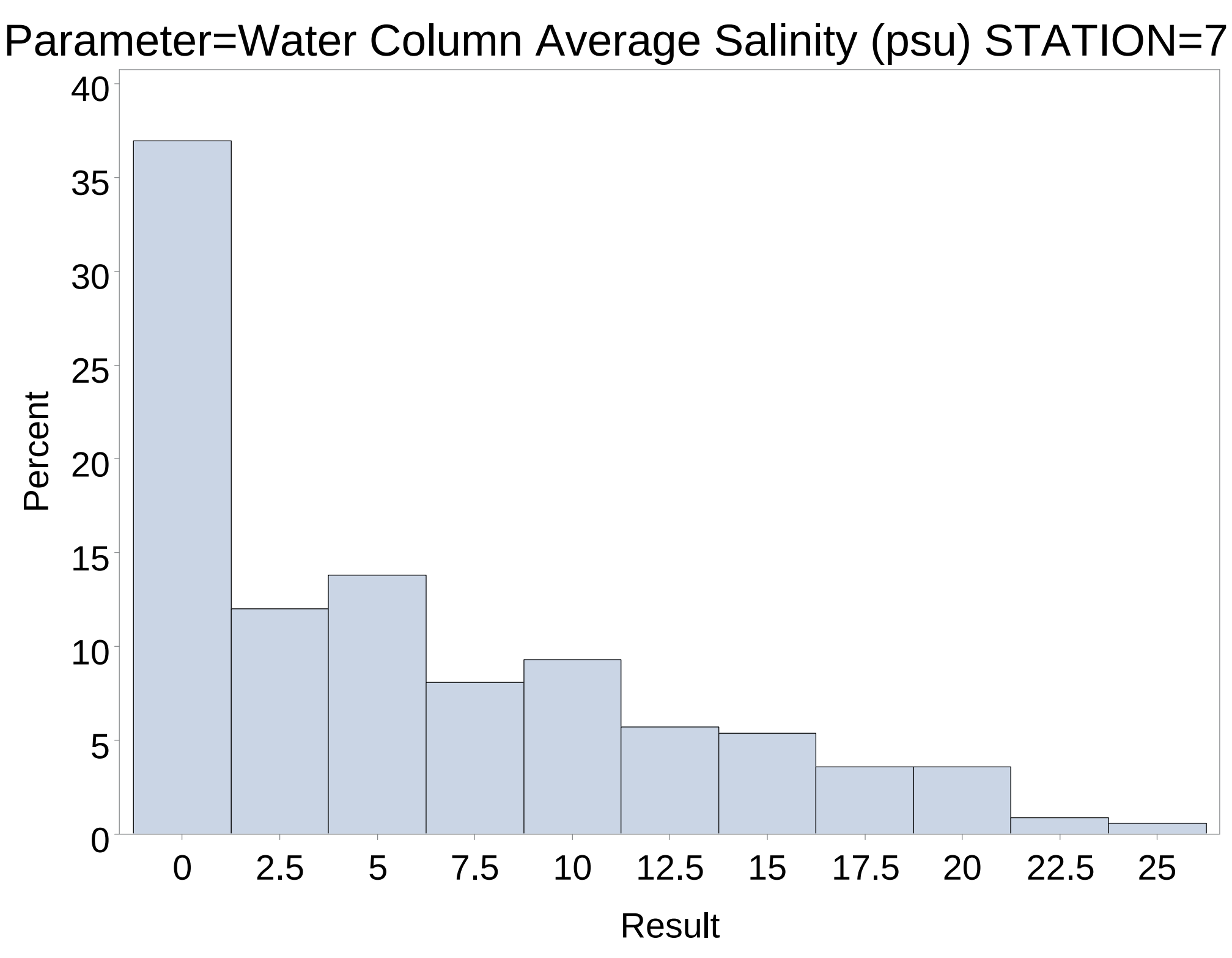
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	17.0027	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25.8300
99%	21.5425
95%	18.8420
90%	15.8020
75% Q3	9.9700
50% Median	3.9260
25% Q1	0.3000
10%	0.0900
5%	0.0000
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	100031	21.4733	100105
0	100030	21.5425	100098
0	100008	23.5620	100110
0	100007	23.9460	100121
0	100006	25.8300	100109


Parameter=Water Column Average Salinity (psu) STATION=7
Percent
40
35
30
25
20
15
10
5
0
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	6.97234334	**Sum Observations**	2321.79033
Std Deviation	6.9421021	**Variance**	48.1927815
Skewness	0.776157	**Kurtosis**	-0.4945643
Uncorrected SS	32188.3228	**Corrected SS**	16000.0035
Coeff Variation	99.5662685	**Std Error Mean**	0.38042485

Basic Statistical Measures			
Location		**Variability**	
Mean	6.972343	**Std Deviation**	6.94210
Median	4.832500	**Variance**	48.19278
Mode	0.000000	**Range**	29.18000
		Interquartile Range	11.74333

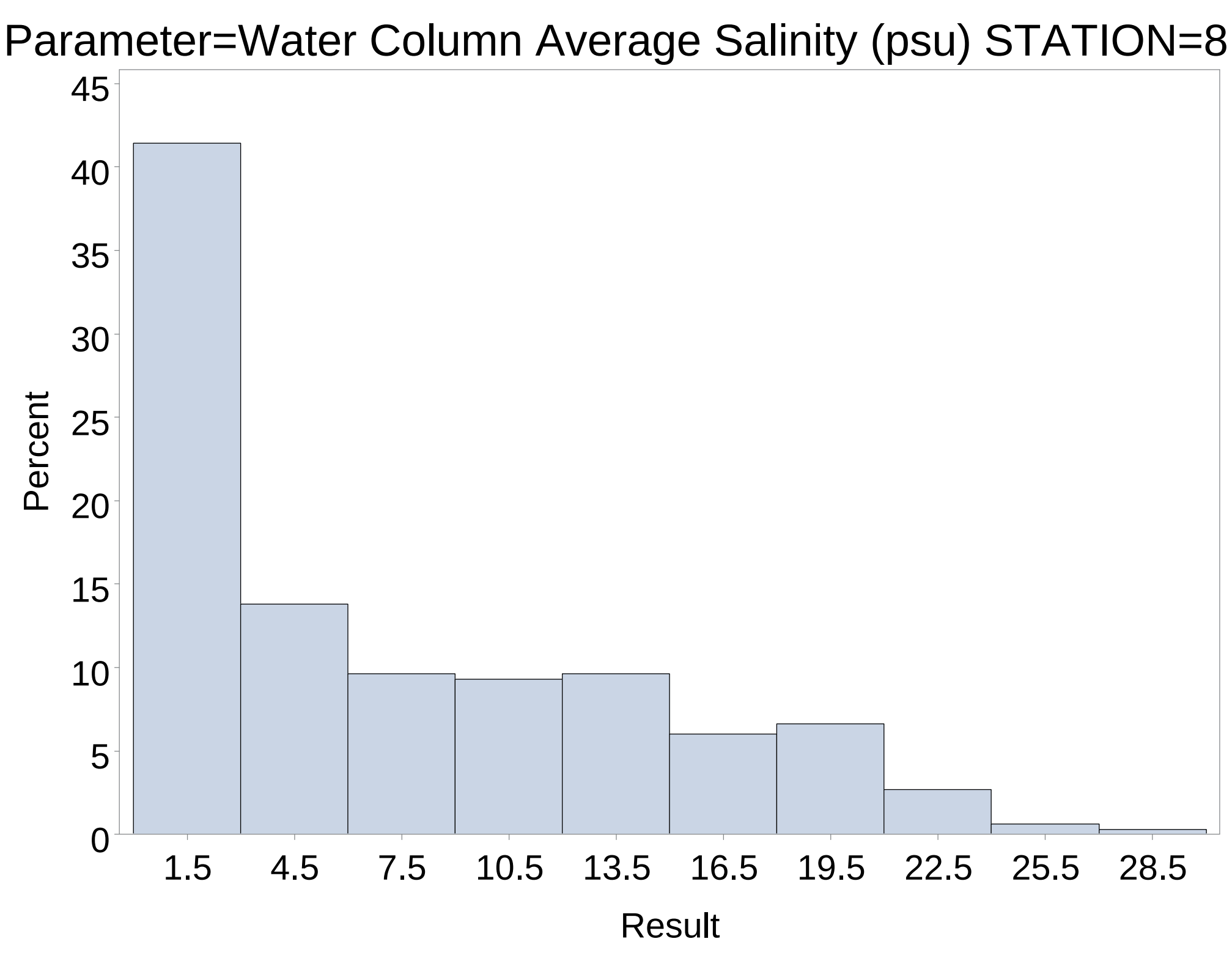
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.32778	**Pr > |t|**	<.0001
Sign	**M**	153	**Pr >= |M|**	<.0001
Signed Rank	**S**	23485.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.1800000
99%	23.0833333
95%	20.0787500
90%	18.0500000
75% Q3	12.0733333
50% Median	4.8325000
25% Q1	0.3300000
10%	0.0733333
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	100364	22.8050	100438
0	100363	23.0833	100431
0	100341	25.2175	100454
0	100340	25.4333	100443
0	100339	29.1800	100442


Parameter=Water Column Average Salinity (psu) STATION=8
Percent
45
40
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	9.99600609	**Sum Observations**	3328.67003
Std Deviation	7.59938806	**Variance**	57.7506989
Skewness	0.30831156	**Kurtosis**	-0.8395547
Uncorrected SS	52446.6379	**Corrected SS**	19173.232
Coeff Variation	76.024244	**Std Error Mean**	0.4164439

Basic Statistical Measures			
Location		**Variability**	
Mean	9.996006	**Std Deviation**	7.59939
Median	9.642500	**Variance**	57.75070
Mode	0.000000	**Range**	32.79714
		Interquartile Range	13.42786

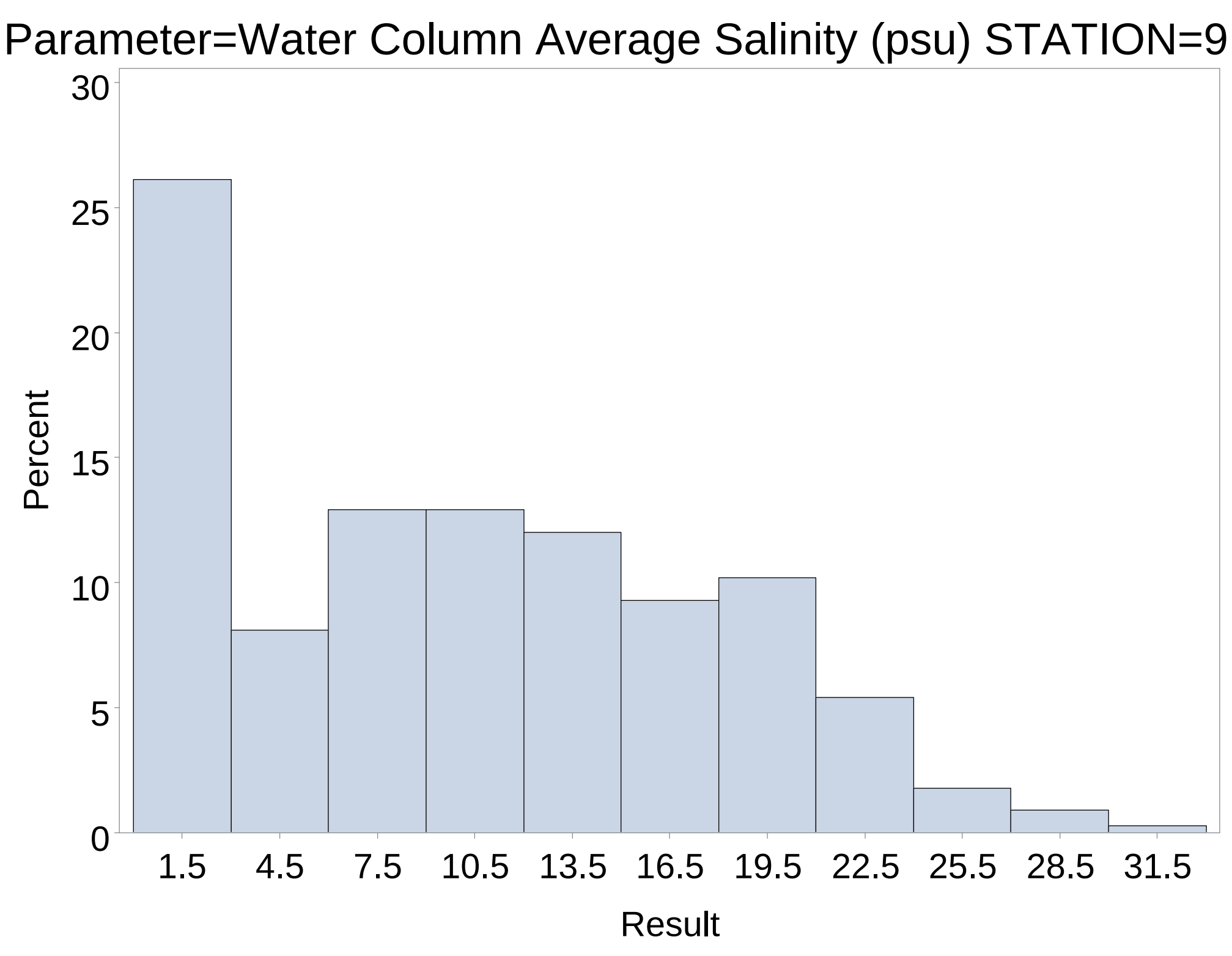
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	24.00325	**Pr > |t|**	<.0001
Sign	**M**	159.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	25520	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.7971
99%	27.1420
95%	22.1775
90%	20.4338
75% Q3	16.0429
50% Median	9.6425
25% Q1	2.6150
10%	0.1460
5%	0.0300
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	100697	26.8080	100787
0	100674	27.1420	100582
0	100661	27.2443	100776
0	100656	28.8300	100704
0	100655	32.7971	100775


Parameter=Water Column Average Salinity (psu) STATION=9
30
25
20
15
10
5
0
Percent
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=10

Moments			
N	335	**Sum Weights**	335
Mean	1.5470705	**Sum Observations**	518.268619
Std Deviation	3.2692844	**Variance**	10.6882205
Skewness	3.75254014	**Kurtosis**	19.8131026
Uncorrected SS	4371.66375	**Corrected SS**	3569.86565
Coeff Variation	211.320971	**Std Error Mean**	0.17862009

Basic Statistical Measures			
Location		**Variability**	
Mean	1.547071	**Std Deviation**	3.26928
Median	0.306667	**Variance**	10.68822
Mode	0.000000	**Range**	29.55000
		Interquartile Range	0.60750

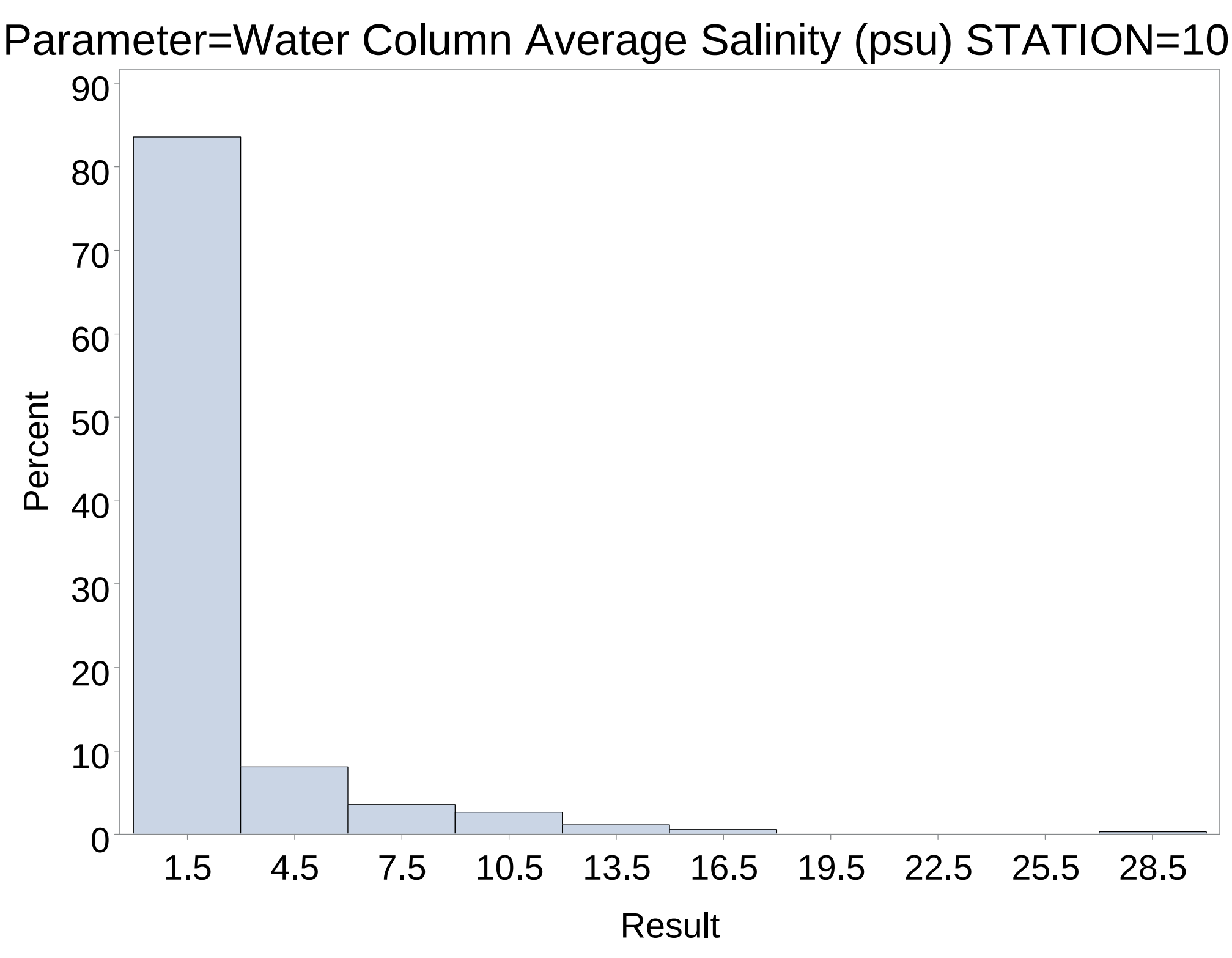
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	8.661235	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.550000
99%	14.025000
95%	8.680000
90%	5.400000
75% Q3	0.740000
50% Median	0.306667
25% Q1	0.132500
10%	0.010000
5%	0.000000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	101031	13.470	101015
0	101030	14.025	101218
0	101008	15.404	101016
0	101007	16.610	101122
0	101006	29.550	101111


Parameter=Water Column Average Salinity (psu) STATION=10
Percent
90
80
70
60
50
40
30
20
10
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	1.62918567	**Sum Observations**	540.889643
Std Deviation	3.09671598	**Variance**	9.58964988
Skewness	2.50339984	**Kurtosis**	5.96449974
Uncorrected SS	4055.38376	**Corrected SS**	3174.17411
Coeff Variation	190.077536	**Std Error Mean**	0.16995437

Basic Statistical Measures			
Location		**Variability**	
Mean	1.629186	**Std Deviation**	3.09672
Median	0.310000	**Variance**	9.58965
Mode	0.000000	**Range**	17.06600
		Interquartile Range	0.79833

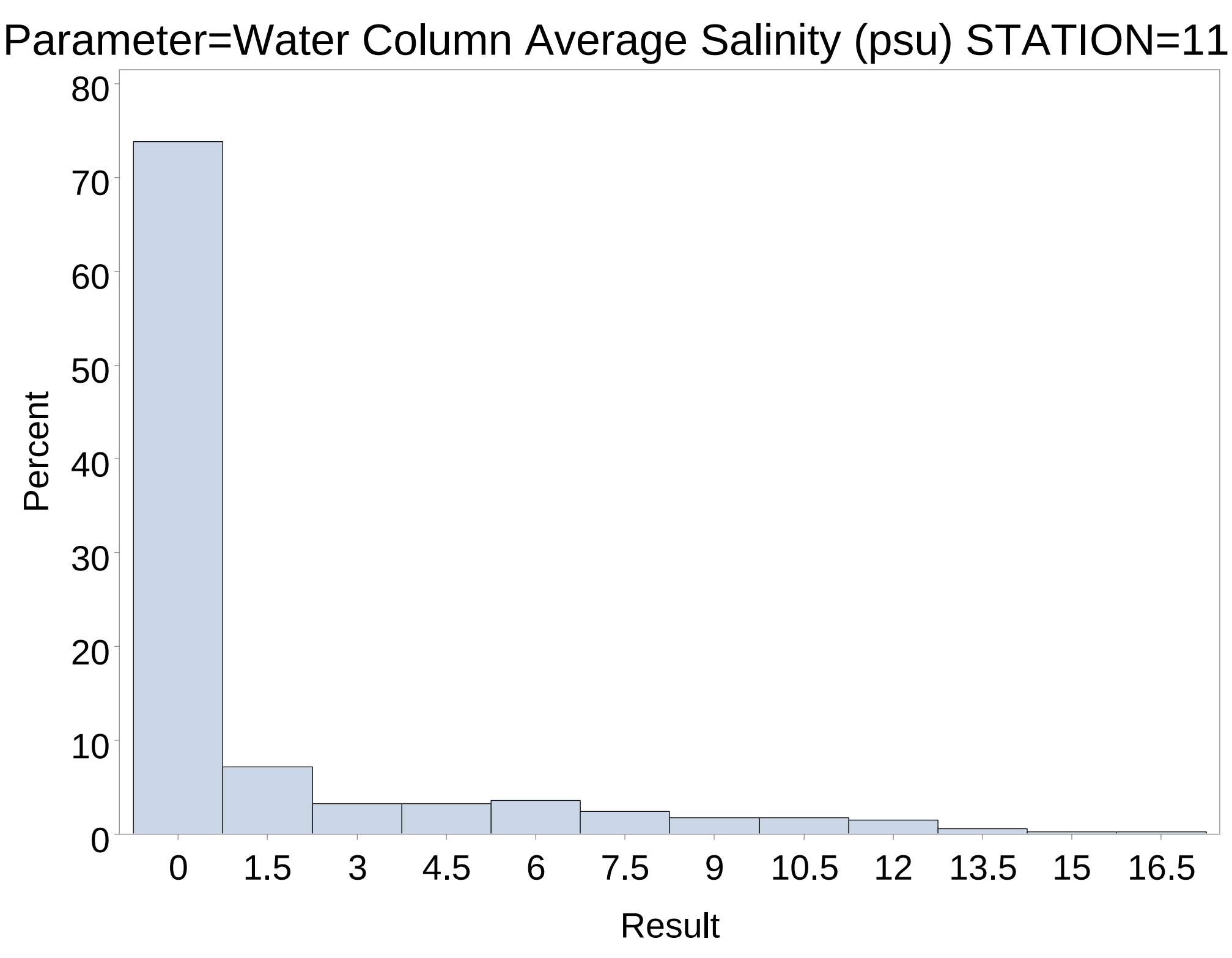
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.586018	**Pr > |t|**	<.0001
Sign	**M**	151.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23028	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.0660000
99%	13.4600000
95%	9.1500000
90%	6.1000000
75% Q3	0.9483333
50% Median	0.3100000
25% Q1	0.1500000
10%	0.0166667
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	101364	12.5633	101453
0	101363	13.4600	101348
0	101341	14.2060	101550
0	101340	15.5150	101349
0	101329	17.0660	101454


Parameter=Water Column Average Salinity (psu) STATION=11
Percent
80
70
60
50
40
30
20
10
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=12

Moments			
N	333	**Sum Weights**	333
Mean	2.15139523	**Sum Observations**	716.414611
Std Deviation	3.52954477	**Variance**	12.4576863
Skewness	2.05595535	**Kurtosis**	3.68183072
Uncorrected SS	5677.24282	**Corrected SS**	4135.95184
Coeff Variation	164.058408	**Std Error Mean**	0.19341786

Basic Statistical Measures			
Location		**Variability**	
Mean	2.151395	**Std Deviation**	3.52954
Median	0.356667	**Variance**	12.45769
Mode	0.000000	**Range**	17.75000
		Interquartile Range	2.29500

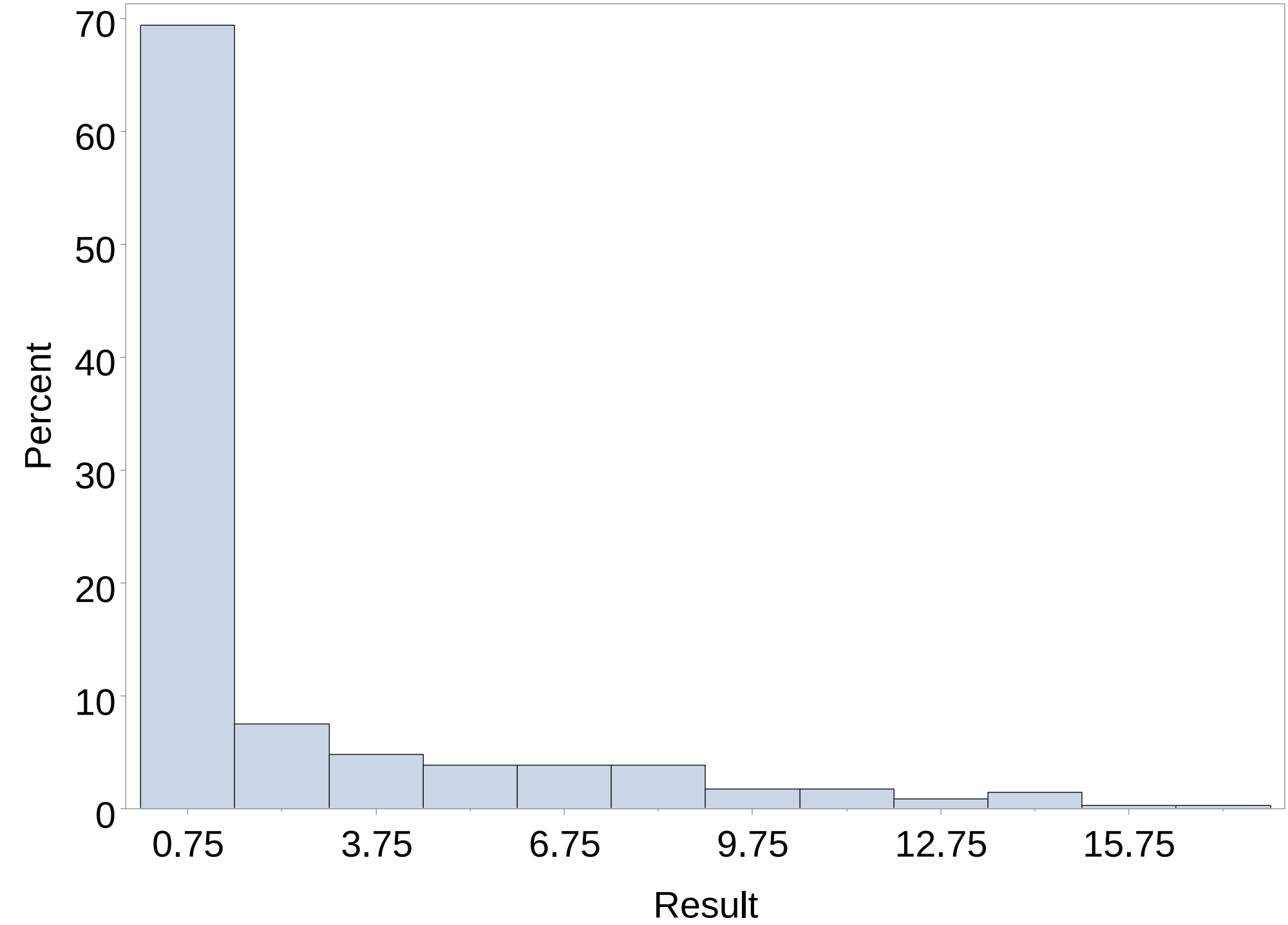
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.12304	**Pr > |t|**	<.0001
Sign	**M**	153	**Pr >= |M|**	<.0001
Signed Rank	**S**	23485.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	17.750000
99%	14.618333
95%	10.210000
90%	7.702857
75% Q3	2.455000
50% Median	0.356667
25% Q1	0.160000
10%	0.023750
5%	0.000000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	101697	14.3900	101681
0	101696	14.6183	101786
0	101674	14.8783	101883
0	101673	15.4133	101682
0	101672	17.7500	101787


Parameter=Water Column Average Salinity (psu) STATION=12
Percent
70
60
50
40
30
20
10
0
0.75
3.75
6.75
9.75
12.75
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	2.24819889	**Sum Observations**	750.898429
Std Deviation	3.67005583	**Variance**	13.4693098
Skewness	2.0474916	**Kurtosis**	3.62015587
Uncorrected SS	6173.44919	**Corrected SS**	4485.28017
Coeff Variation	163.244269	**Std Error Mean**	0.20081652

Basic Statistical Measures			
Location		**Variability**	
Mean	2.248199	**Std Deviation**	3.67006
Median	0.377857	**Variance**	13.46931
Mode	0.000000	**Range**	18.62143
		Interquartile Range	2.38375

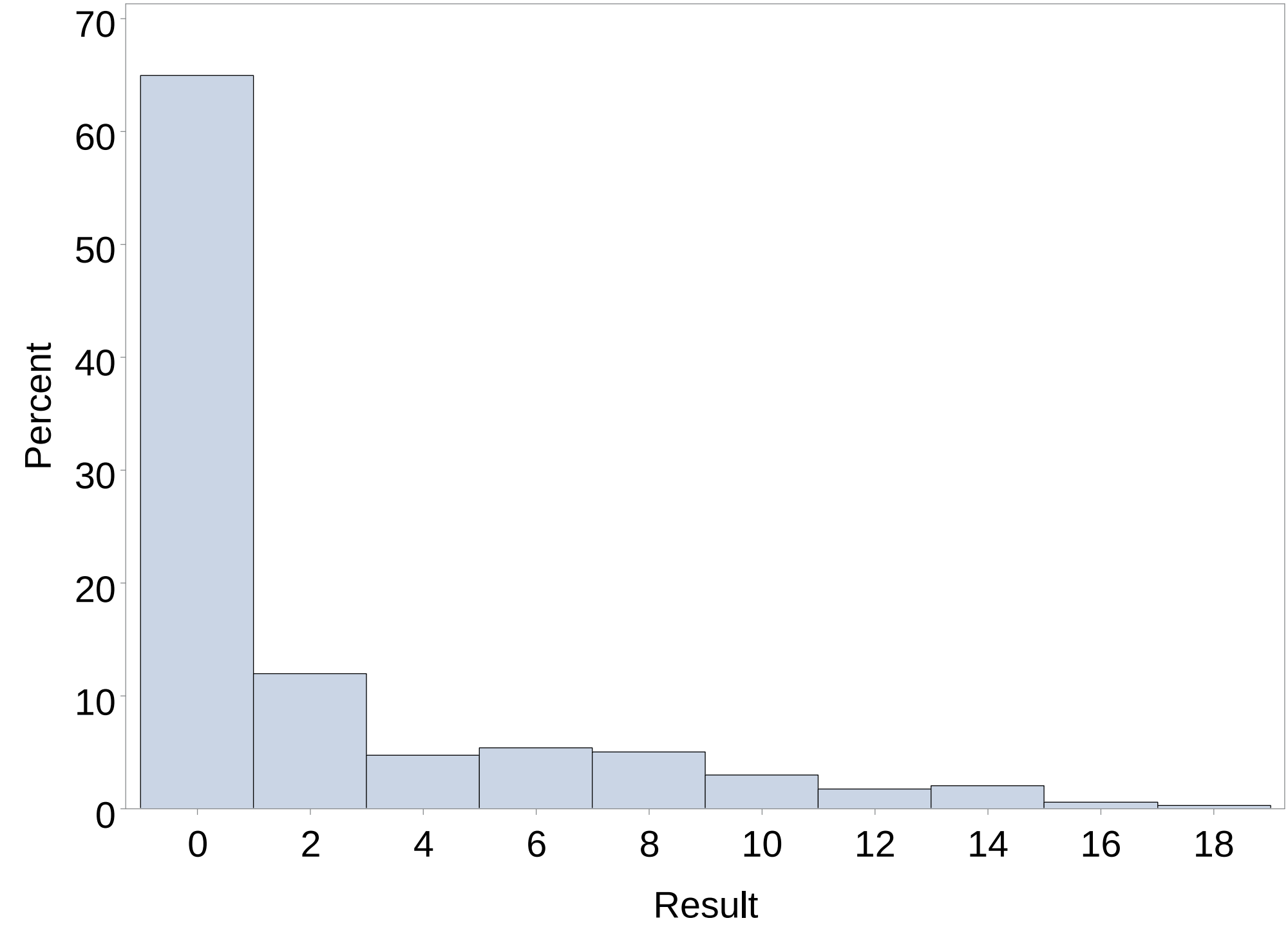
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	11.19529	**Pr > |t|**	<.0001
Sign	**M**	152	**Pr >= |M|**	<.0001
Signed Rank	**S**	23180	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	18.621429
99%	14.868333
95%	10.820000
90%	7.868571
75% Q3	2.543750
50% Median	0.377857
25% Q1	0.160000
10%	0.020000
5%	0.000000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	102030	14.7429	102157
0	102029	14.8683	102120
0	102007	15.5771	102217
0	102006	15.9480	102015
0	102005	18.6214	102121


Parameter=Water Column Average Salinity (psu) STATION=13
Percent
70
60
50
40
30
20
10
0
0
2
4
6
8
10
12
14
16
18
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	2.74389479	**Sum Observations**	913.716964
Std Deviation	4.10891205	**Variance**	16.8831582
Skewness	1.80994117	**Kurtosis**	2.60556429
Uncorrected SS	8112.35175	**Corrected SS**	5605.20854
Coeff Variation	149.747435	**Std Error Mean**	0.22516699

Basic Statistical Measures			
Location		**Variability**	
Mean	2.743895	**Std Deviation**	4.10891
Median	0.490000	**Variance**	16.88316
Mode	0.000000	**Range**	19.71200
		Interquartile Range	3.67333

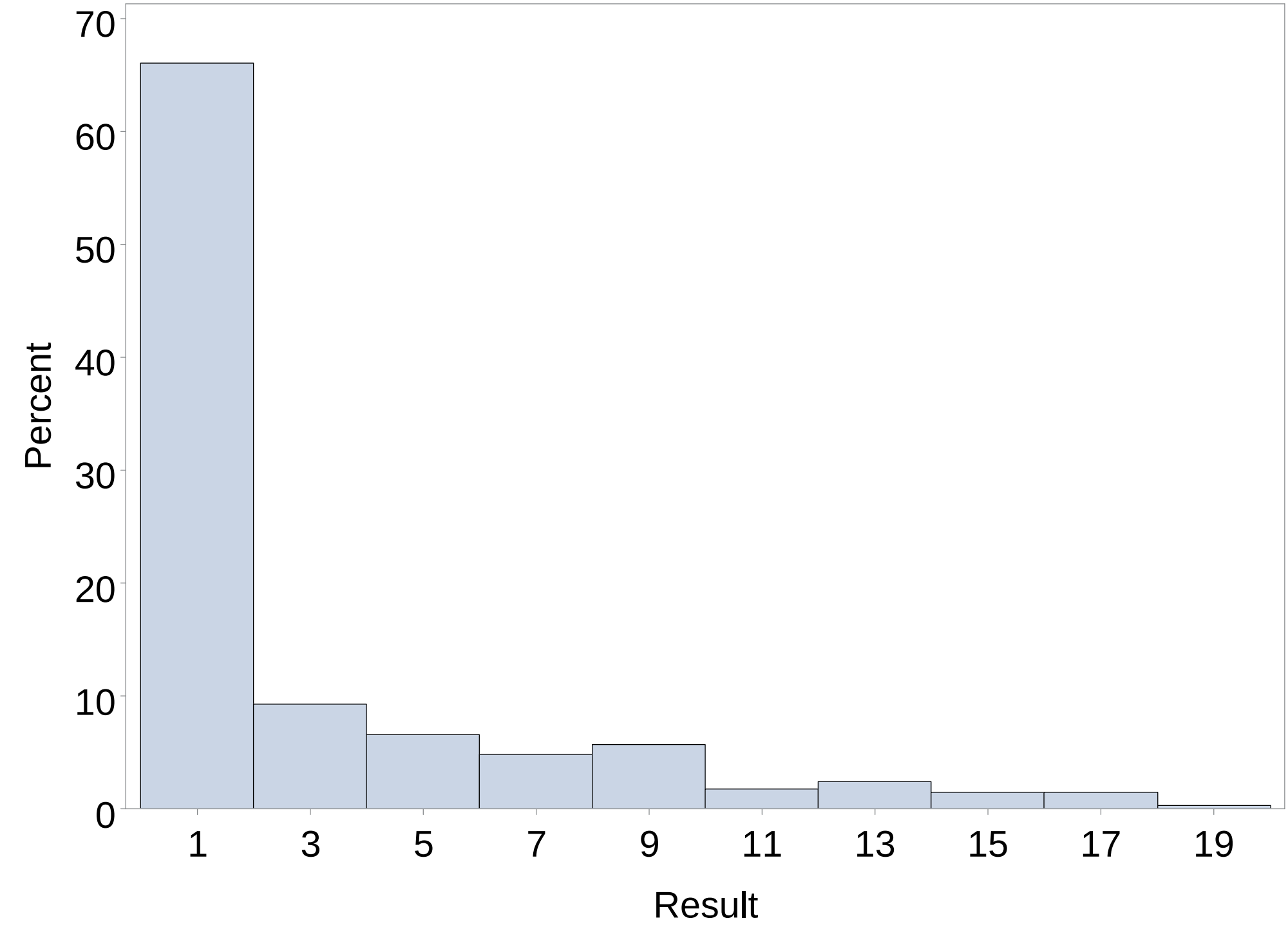
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	12.18604	**Pr > |t|**	<.0001
Sign	**M**	152.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23332.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	19.71200
99%	16.18400
95%	12.19000
90%	9.13455
75% Q3	3.84333
50% Median	0.49000
25% Q1	0.17000
10%	0.02750
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	102364	16.0480	102490
0	102363	16.1840	102349
0	102341	16.5225	102443
0	102340	16.5867	102348
0	102339	19.7120	102454


Parameter=Water Column Average Salinity (psu) STATION=14
Percent
70
60
50
40
30
20
10
0
1
3
5
7
9
11
13
15
17
19
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=15

Moments			
N	332	**Sum Weights**	332
Mean	4.56973102	**Sum Observations**	1517.1507
Std Deviation	5.53529775	**Variance**	30.6395212
Skewness	1.21932876	**Kurtosis**	0.54555247
Uncorrected SS	17074.6521	**Corrected SS**	10141.6815
Coeff Variation	121.129619	**Std Error Mean**	0.30378893

Basic Statistical Measures			
Location		**Variability**	
Mean	4.569731	**Std Deviation**	5.53530
Median	1.910000	**Variance**	30.63952
Mode	0.000000	**Range**	23.13909
		Interquartile Range	7.74418

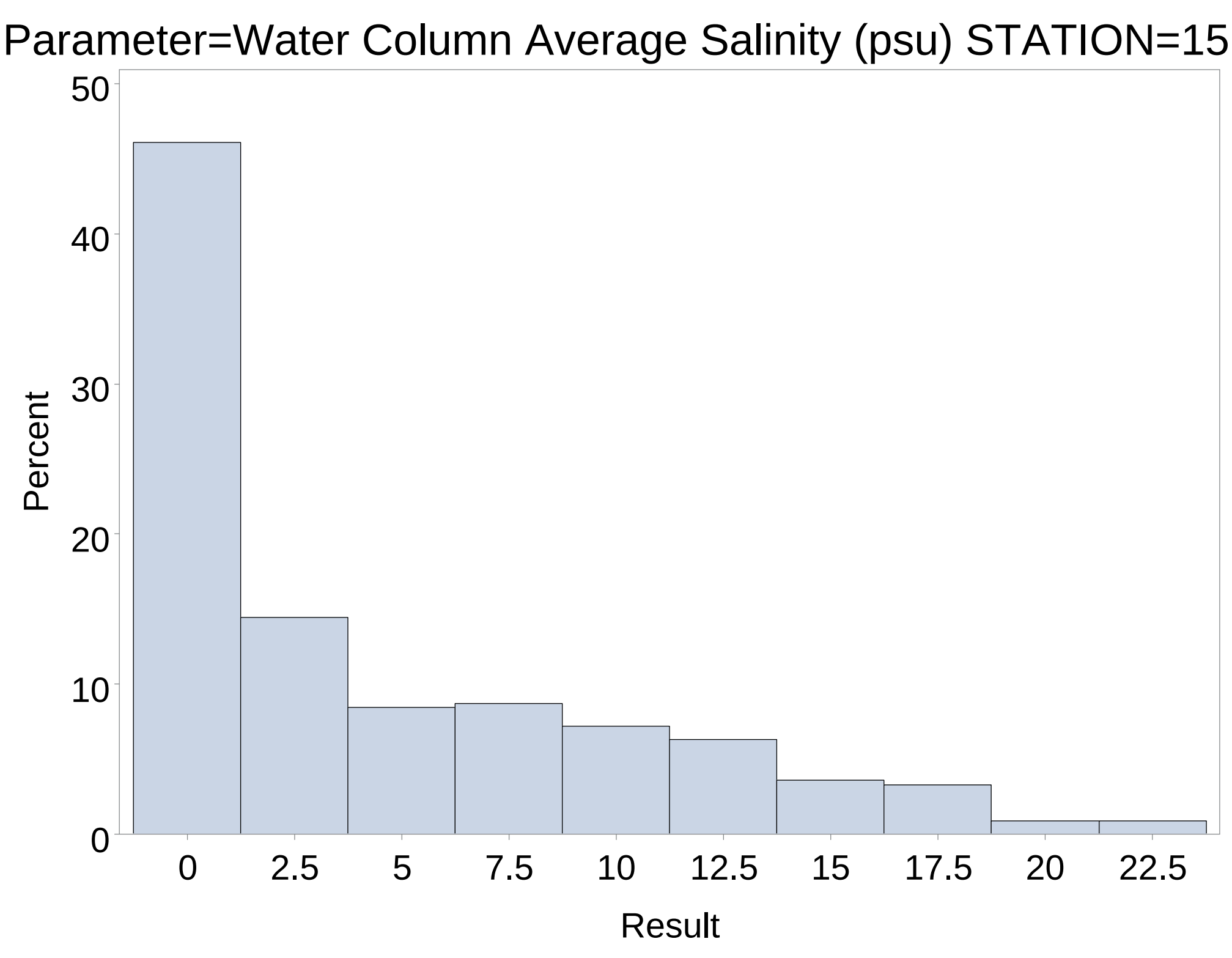
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	15.04245	**Pr > |t|**	<.0001
Sign	**M**	154.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	23947.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	23.1390909
99%	19.3300000
95%	16.4810000
90%	12.9890000
75% Q3	7.9541818
50% Median	1.9100000
25% Q1	0.2100000
10%	0.0733333
5%	0.0000000
1%	0.0000000
0% Min	0.0000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	102696	19.1325	102763
0	102695	19.3300	102822
0	102674	21.3156	102775
0	102673	23.1350	102774
0	102672	23.1391	102786


Parameter=Water Column Average Salinity (psu) STATION=15
Percent
50
40
30
20
10
0
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=16

Moments			
N	333	**Sum Weights**	333
Mean	7.21902824	**Sum Observations**	2403.9364
Std Deviation	6.91699682	**Variance**	47.844845
Skewness	0.71887186	**Kurtosis**	-0.5199218
Uncorrected SS	33238.5733	**Corrected SS**	15884.4885
Coeff Variation	95.8161763	**Std Error Mean**	0.37904909

Basic Statistical Measures			
Location		**Variability**	
Mean	7.219028	**Std Deviation**	6.91700
Median	5.757500	**Variance**	47.84485
Mode	0.000000	**Range**	28.89250
		Interquartile Range	12.21270

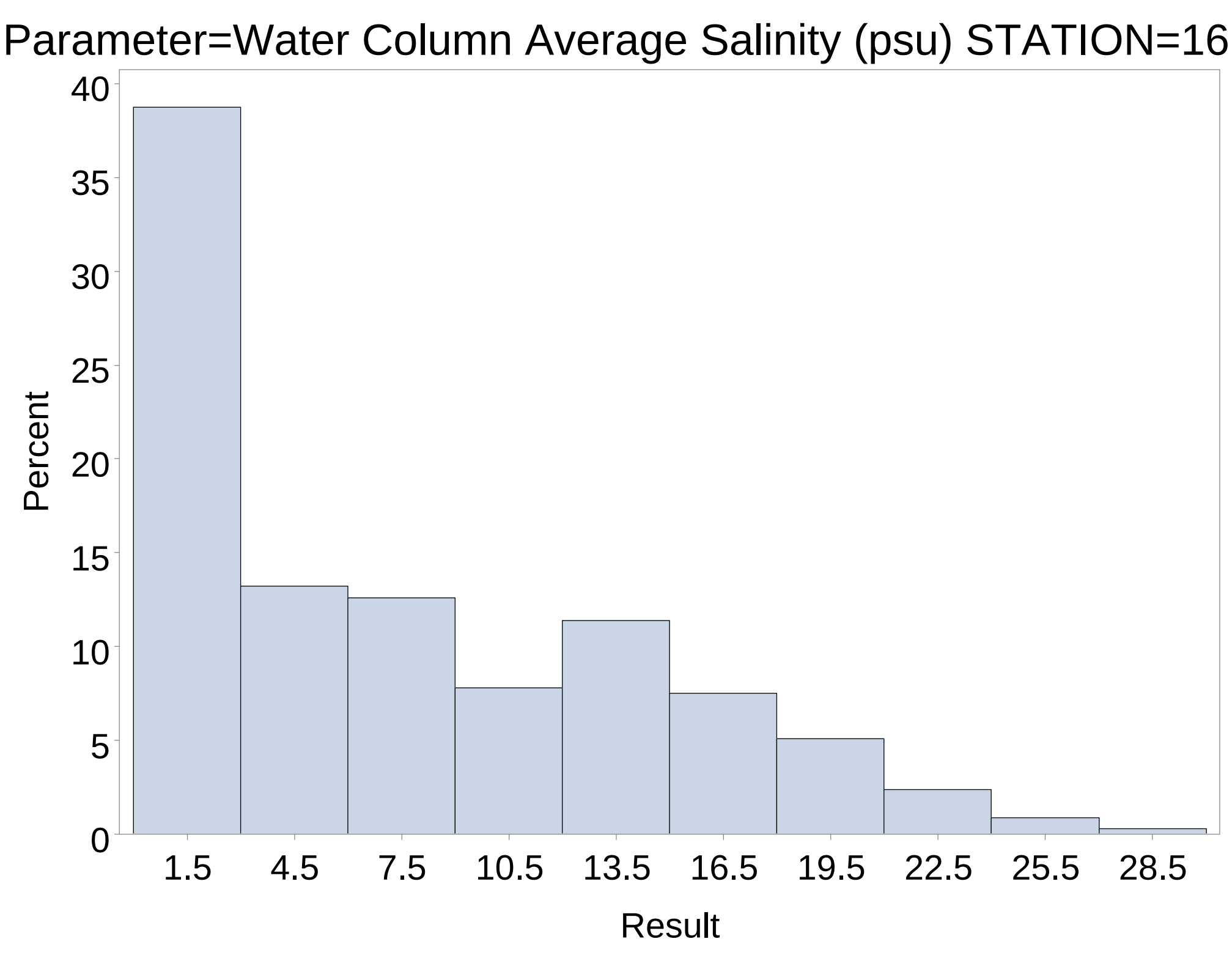
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.0451	**Pr > |t|**	<.0001
Sign	**M**	156.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24570.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.892500
99%	24.626667
95%	20.275000
90%	17.590000
75% Q3	12.645556
50% Median	5.757500
25% Q1	0.432857
10%	0.120000
5%	0.000000
1%	0.000000
0% Min	0.000000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	103029	23.7760	103096
0	103006	24.6267	103036
0	103005	24.7800	103108
0	102993	25.6300	103119
0	102988	28.8925	103107


Parameter=Water Column Average Salinity (psu) STATION=16
Percent
40
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=17

Moments			
N	332	**Sum Weights**	332
Mean	8.34124921	**Sum Observations**	2769.29474
Std Deviation	7.34577388	**Variance**	53.9603939
Skewness	0.57973647	**Kurtosis**	-0.6580763
Uncorrected SS	40960.2679	**Corrected SS**	17860.8904
Coeff Variation	88.0656325	**Std Error Mean**	0.40315172

Basic Statistical Measures			
Location		**Variability**	
Mean	8.341249	**Std Deviation**	7.34577
Median	7.356667	**Variance**	53.96039
Mode	0.000000	**Range**	31.27333
		Interquartile Range	13.27000

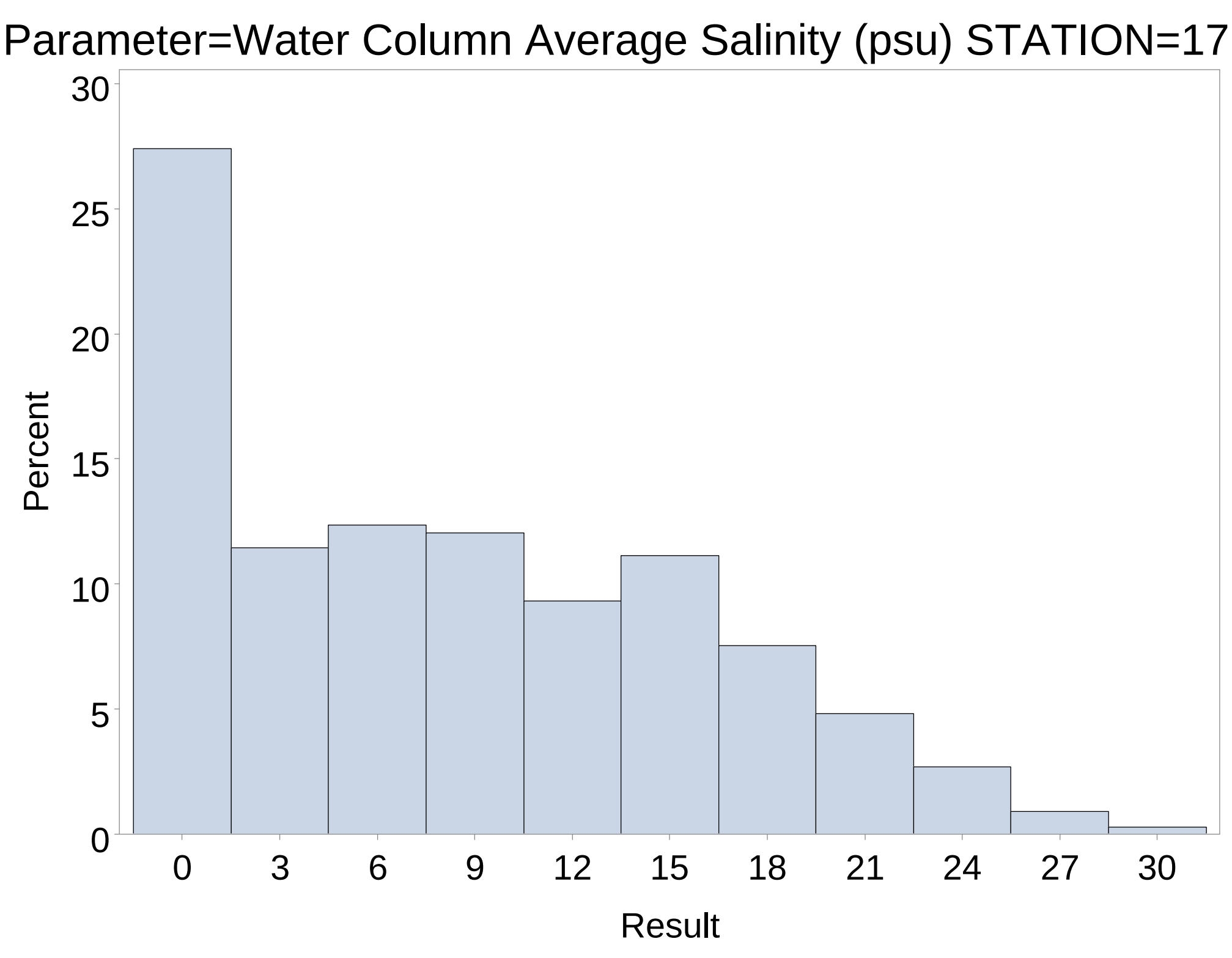
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.6901	**Pr > |t|**	<.0001
Sign	**M**	158	**Pr >= |M|**	<.0001
Signed Rank	**S**	25043	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.27333
99%	26.18500
95%	21.39000
90%	18.72600
75% Q3	14.21250
50% Median	7.35667
25% Q1	0.94250
10%	0.13000
5%	0.00200
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	103362	25.4933	103429
0	103339	26.1850	103451
0	103326	26.3257	103369
0	103321	26.3450	103440
0	103319	31.2733	103439


Parameter=Water Column Average Salinity (psu) STATION=17
Percent
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	6.23751203	**Sum Observations**	2052.14146
Std Deviation	6.65642699	**Variance**	44.3080202
Skewness	0.92236498	**Kurtosis**	-0.1700274
Uncorrected SS	27333.2877	**Corrected SS**	14533.0306
Coeff Variation	106.716059	**Std Error Mean**	0.3669807

Basic Statistical Measures			
Location		**Variability**	
Mean	6.237512	**Std Deviation**	6.65643
Median	4.276250	**Variance**	44.30802
Mode	0.000000	**Range**	27.80800
		Interquartile Range	10.40333

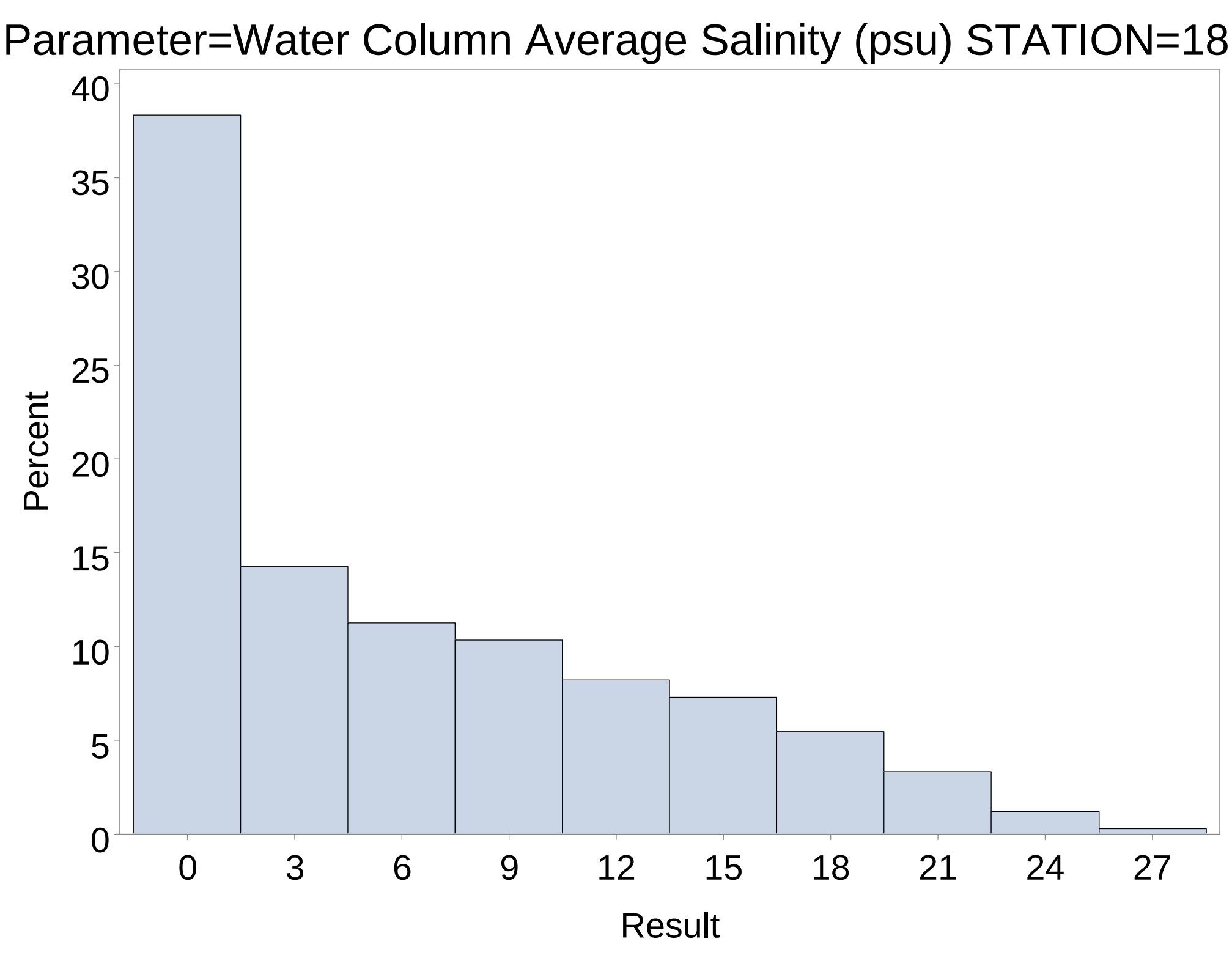
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	16.99684	**Pr > |t|**	<.0001
Sign	**M**	148.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	22126.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	27.80800
99%	23.62143
95%	19.29125
90%	17.02000
75% Q3	10.62333
50% Median	4.27625
25% Q1	0.22000
10%	0.01000
5%	0.00000
1%	0.00000
0% Min	0.00000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	103692	23.2225	103759
0	103691	23.6214	103689
0	103669	24.5983	103781
0	103668	24.6113	103770
0	103667	27.8080	103769


Parameter=Water Column Average Salinity (psu) STATION=18
Percent
40
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=19

Moments			
N	331	**Sum Weights**	331
Mean	11.3277193	**Sum Observations**	3749.4751
Std Deviation	7.95972855	**Variance**	63.3572786
Skewness	0.18788011	**Kurtosis**	-0.8645805
Uncorrected SS	63380.9036	**Corrected SS**	20907.9019
Coeff Variation	70.2677062	**Std Error Mean**	0.43750625

Basic Statistical Measures			
Location		**Variability**	
Mean	11.32772	**Std Deviation**	7.95973
Median	11.16250	**Variance**	63.35728
Mode	0.00000	**Range**	35.10000
		Interquartile Range	14.13417

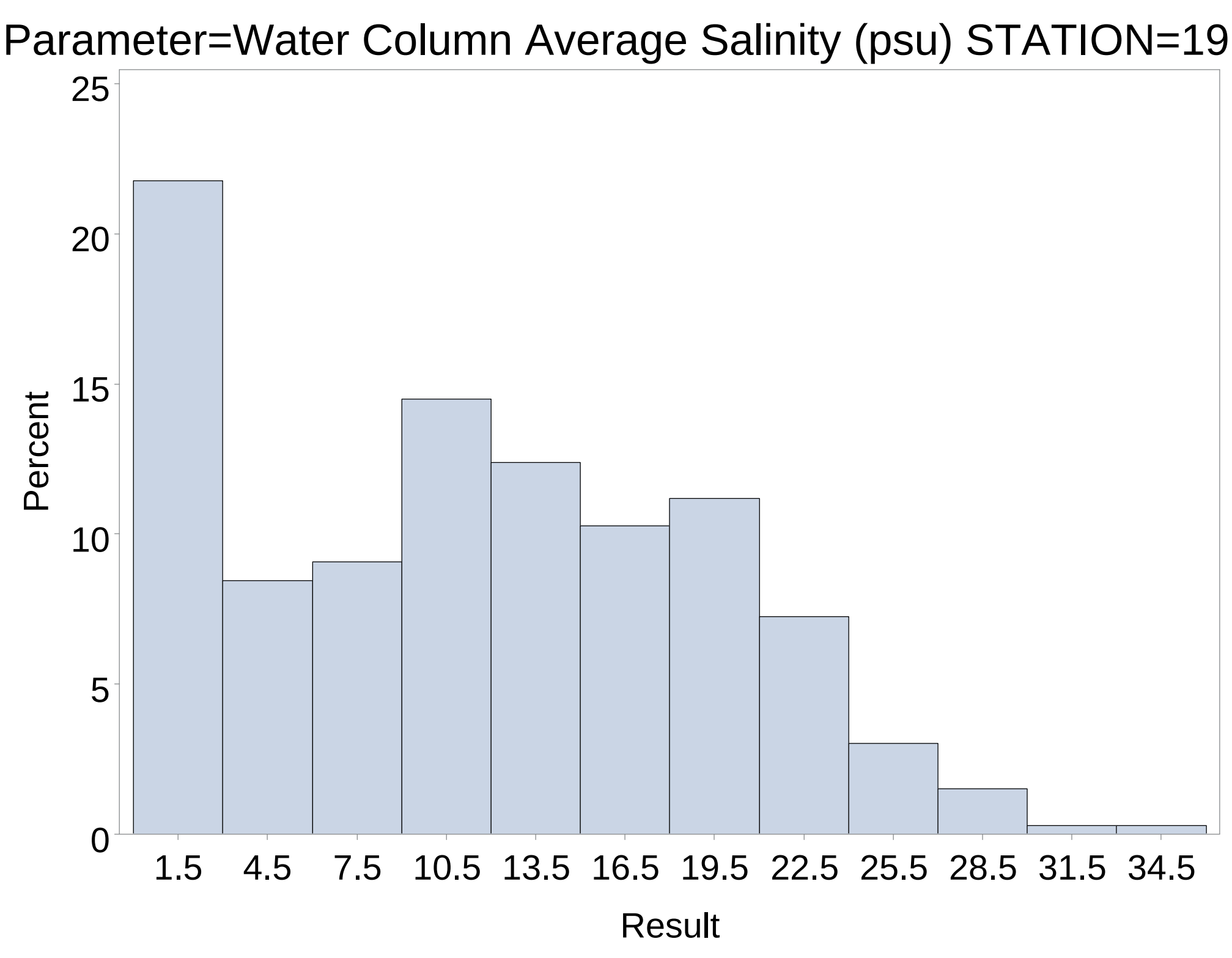
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.89156	**Pr > |t|**	<.0001
Sign	**M**	158.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	25201.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	35.1000
99%	28.1300
95%	24.0560
90%	22.0050
75% Q3	17.8592
50% Median	11.1625
25% Q1	3.7250
10%	0.1600
5%	0.0525
1%	0.0000
0% Min	0.0000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	104023	28.0933	104089
0	104022	28.1300	104096
0	103987	28.6175	104100
0	103982	30.9200	104030
0	103981	35.1000	104099


Parameter=Water Column Average Salinity (psu) STATION=19
Percent
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
34.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	0.08888889	**Sum Observations**	0.08888889
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	0.00790123	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	0.088889	**Std Deviation**	.
Median	0.088889	**Variance**	.
Mode	0.088889	**Range**	0
		Interquartile Range	0

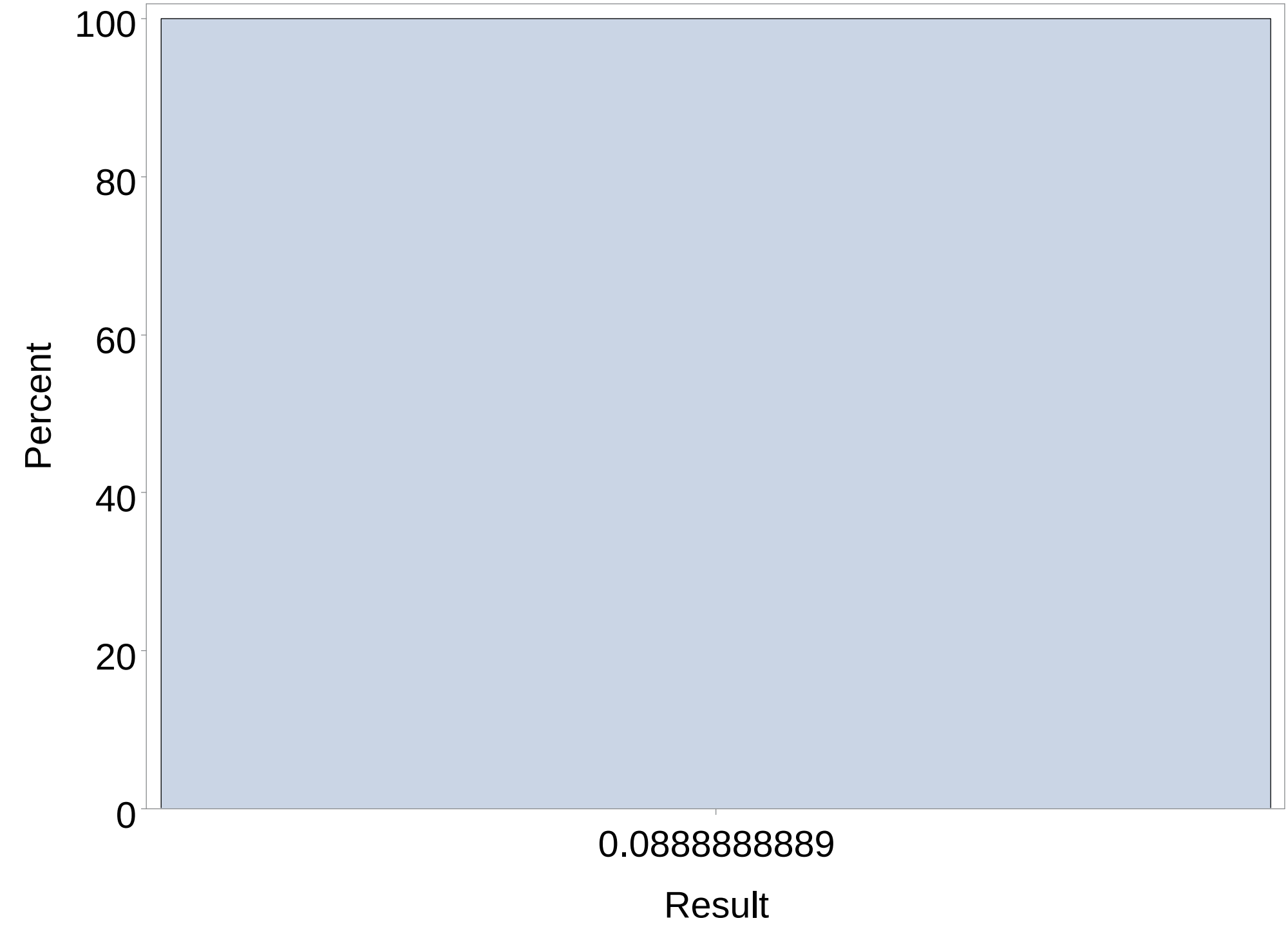
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.0888889
99%	0.0888889
95%	0.0888889
90%	0.0888889
75% Q3	0.0888889
50% Median	0.0888889
25% Q1	0.0888889
10%	0.0888889
5%	0.0888889
1%	0.0888889
0% Min	0.0888889

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Salinity (psu) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.0888889	104227	0.0888889	104227


Parameter=Water Column Average Salinity (psu) STATION=22
100
80
60
40
20
0
Percent
0.0888888889
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=1

Moments			
N	330	**Sum Weights**	330
Mean	4.61146364	**Sum Observations**	1521.783
Std Deviation	2.46431891	**Variance**	6.07286769
Skewness	0.72772629	**Kurtosis**	0.09430161
Uncorrected SS	9015.62044	**Corrected SS**	1997.97347
Coeff Variation	53.4389752	**Std Error Mean**	0.13565629

Basic Statistical Measures			
Location		**Variability**	
Mean	4.611464	**Std Deviation**	2.46432
Median	4.135000	**Variance**	6.07287
Mode	5.000000	**Range**	12.25900
		Interquartile Range	3.47000

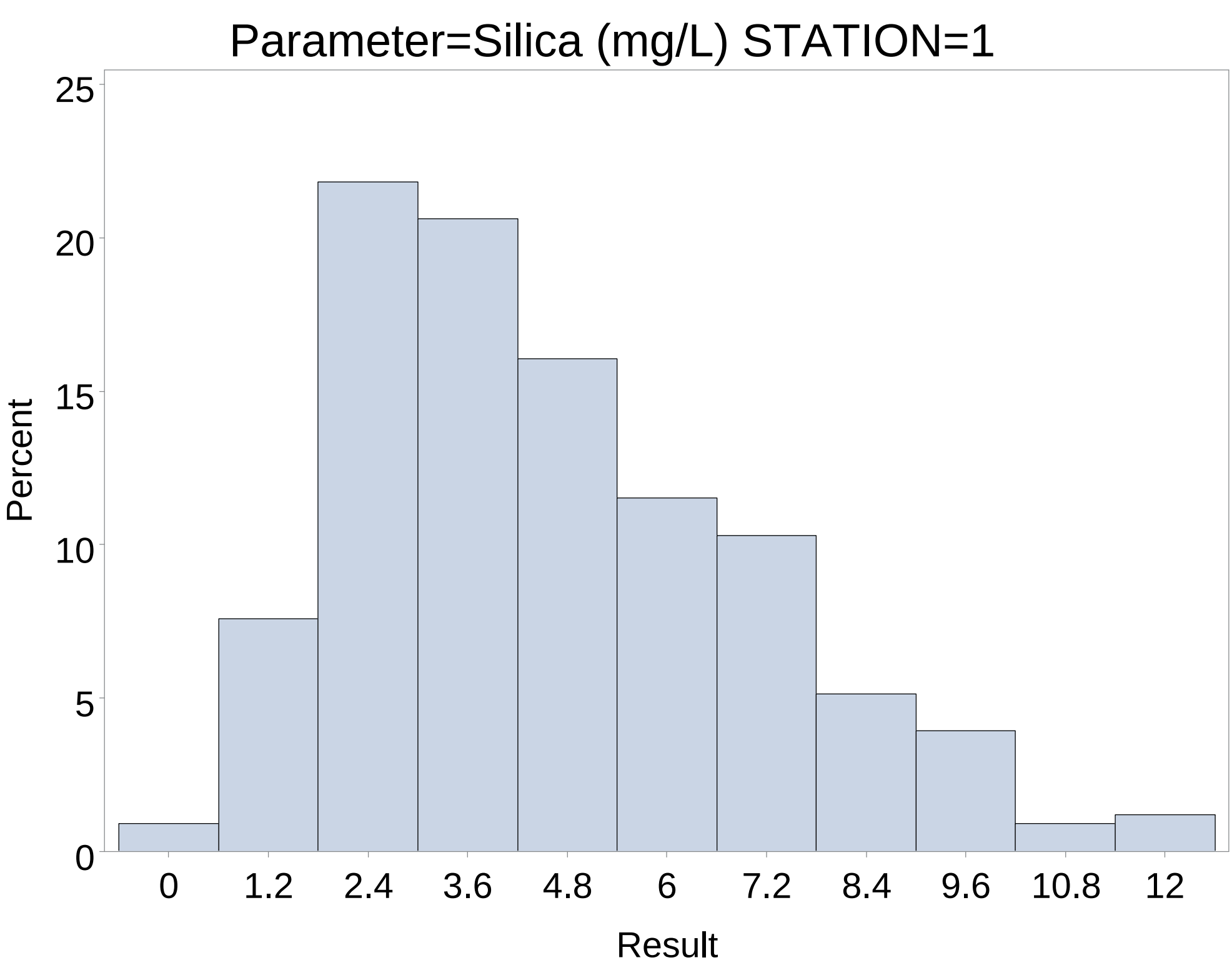
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.99373	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.400
99%	11.900
95%	9.200
90%	8.055
75% Q3	6.200
50% Median	4.135
25% Q1	2.730
10%	1.900
5%	1.210
1%	0.708
0% Min	0.141

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.141	104392	11.0	104555
0.363	104348	11.9	104425
0.548	104346	12.0	104437
0.708	104254	12.3	104551
0.710	104312	12.4	104544


Parameter=Silica (mg/L) STATION=1
Percent
25
20
15
10
5
0
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=2

Moments			
N	331	**Sum Weights**	331
Mean	5.14687915	**Sum Observations**	1703.617
Std Deviation	2.35672884	**Variance**	5.55417081
Skewness	0.56199249	**Kurtosis**	0.42686002
Uncorrected SS	10601.1872	**Corrected SS**	1832.87637
Coeff Variation	45.7894729	**Std Error Mean**	0.12953753

Basic Statistical Measures			
Location		**Variability**	
Mean	5.146879	**Std Deviation**	2.35673
Median	4.760000	**Variance**	5.55417
Mode	6.500000	**Range**	15.84100
		Interquartile Range	3.48000

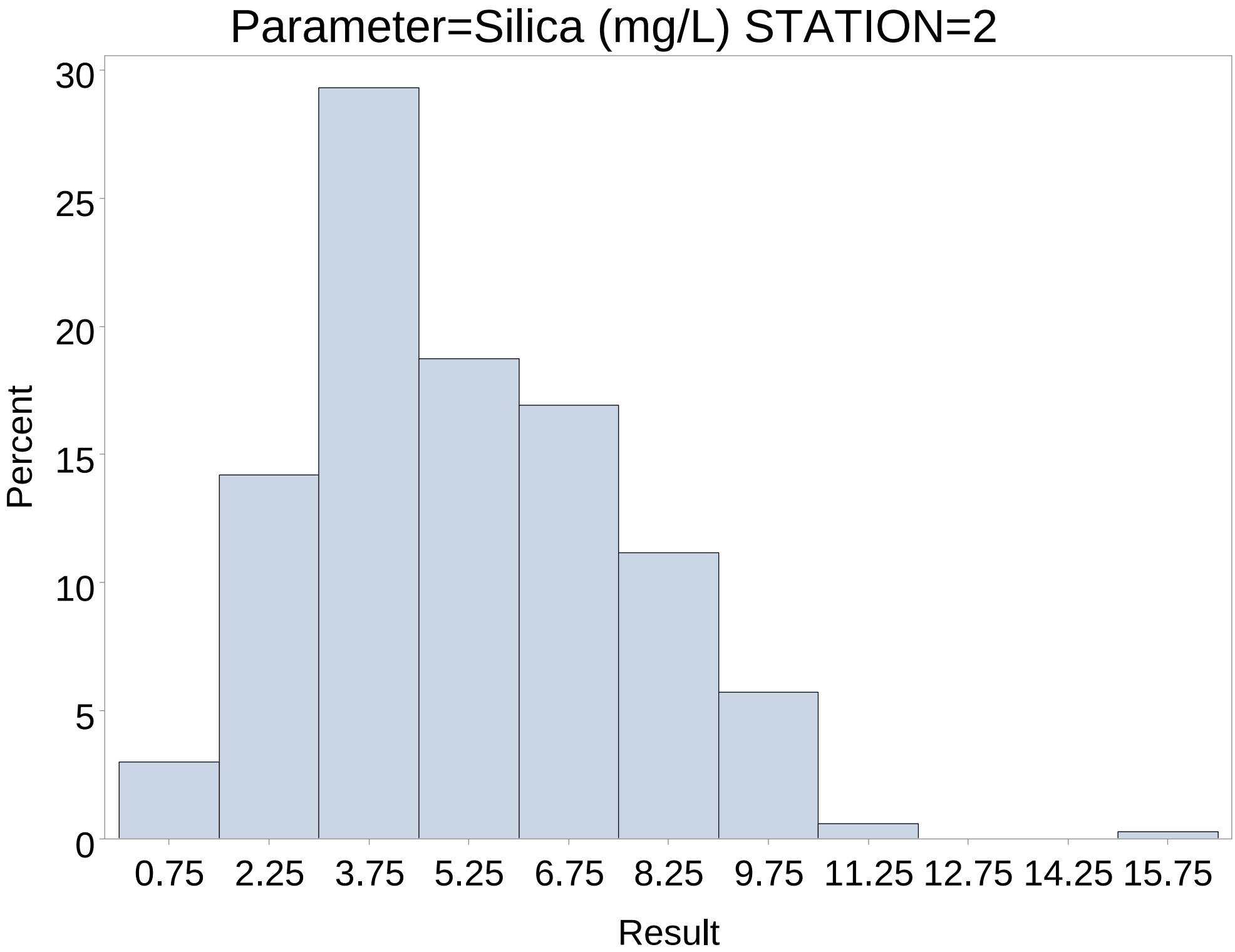
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	39.73273	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.900
99%	10.300
95%	9.500
90%	8.400
75% Q3	6.850
50% Median	4.760
25% Q1	3.370
10%	2.390
5%	1.630
1%	0.871
0% Min	0.059

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.059	104722	10.1	104876
0.346	104678	10.3	104888
0.780	104679	10.5	104882
0.871	104587	10.8	104747
1.060	104667	15.9	104755


Parameter=Silica (mg/L) STATION=2
Percent
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=3

Moments			
N	331	**Sum Weights**	331
Mean	4.49992145	**Sum Observations**	1489.474
Std Deviation	2.43389746	**Variance**	5.92385685
Skewness	0.7261475	**Kurtosis**	0.37412411
Uncorrected SS	8657.38876	**Corrected SS**	1954.87276
Coeff Variation	54.0875544	**Std Error Mean**	0.1337791

Basic Statistical Measures			
Location		**Variability**	
Mean	4.499921	**Std Deviation**	2.43390
Median	4.000000	**Variance**	5.92386
Mode	3.000000	**Range**	14.33700
		Interquartile Range	3.42000

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

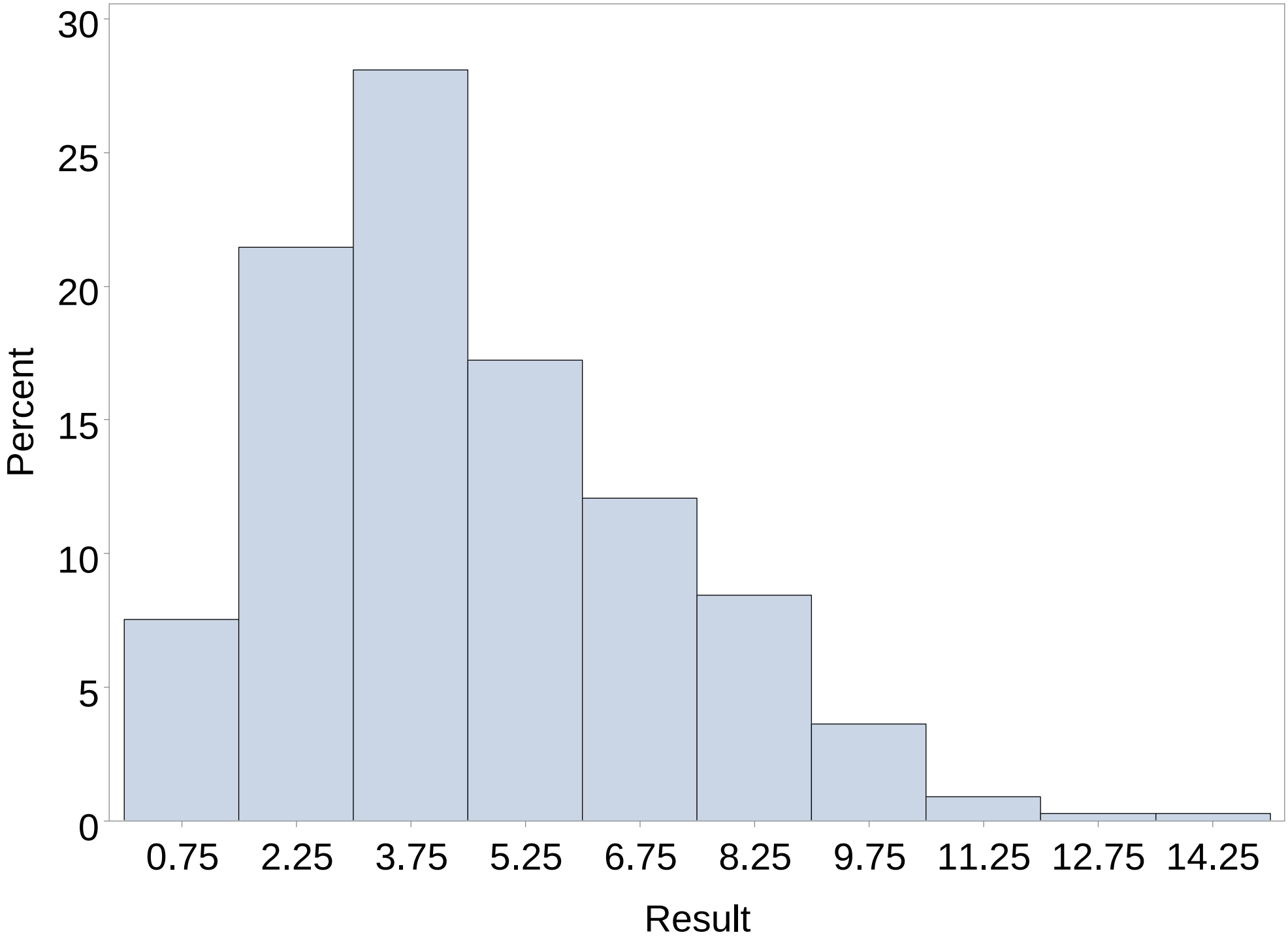
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.63695	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.400
99%	11.000
95%	9.000
90%	7.960
75% Q3	6.150
50% Median	4.000
25% Q1	2.730
10%	1.670
5%	1.060
1%	0.529
0% Min	0.063

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.063	105009	10.5	105085
0.104	105053	11.0	105098
0.314	105001	11.0	105100
0.529	104988	12.2	105213
0.555	105000	14.4	105086


Parameter=Silica (mg/L) STATION=3
Percent
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=4

Moments			
N	330	**Sum Weights**	330
Mean	4.70994545	**Sum Observations**	1554.282
Std Deviation	2.51959658	**Variance**	6.34836694
Skewness	1.13355382	**Kurtosis**	1.98642675
Uncorrected SS	9409.19616	**Corrected SS**	2088.61272
Coeff Variation	53.4952391	**Std Error Mean**	0.13869923

Basic Statistical Measures			
Location		**Variability**	
Mean	4.709945	**Std Deviation**	2.51960
Median	4.110000	**Variance**	6.34837
Mode	3.500000	**Range**	16.48600
		Interquartile Range	3.17000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

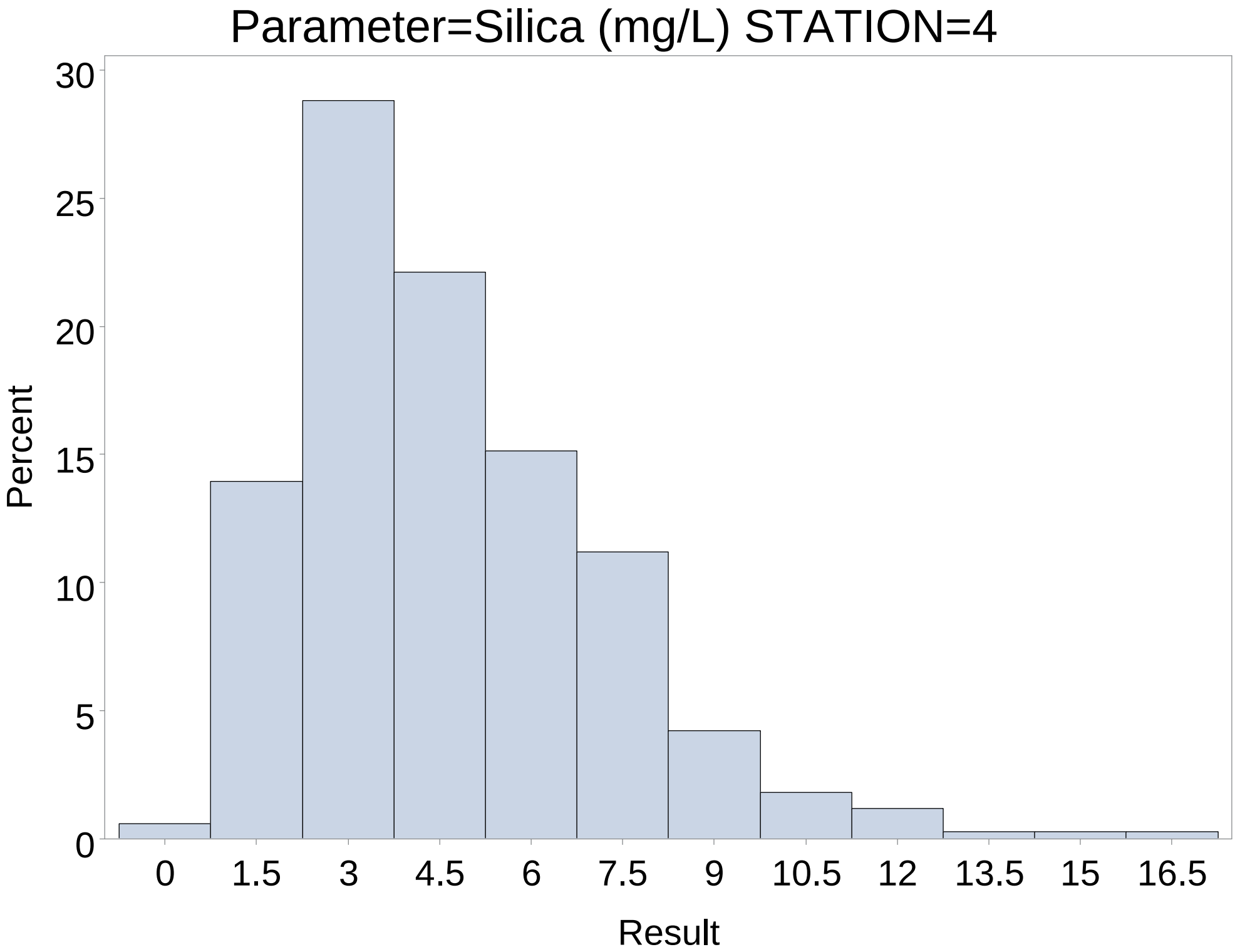
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	33.95798	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.600
99%	11.900
95%	9.300
90%	8.030
75% Q3	6.120
50% Median	4.110
25% Q1	2.950
10%	2.040
5%	1.530
1%	0.932
0% Min	0.114

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.114	105384	11.7	105545
0.712	105249	11.9	105537
0.825	105246	13.0	105428
0.932	105339	15.0	105543
0.981	105340	16.6	105416


Parameter=Silica (mg/L) STATION=4
Percent
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
16.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=5

Moments			
N	331	**Sum Weights**	331
Mean	4.49984592	**Sum Observations**	1489.449
Std Deviation	2.27888574	**Variance**	5.19332022
Skewness	0.9851468	**Kurtosis**	1.70909977
Uncorrected SS	8416.08668	**Corrected SS**	1713.79567
Coeff Variation	50.6436394	**Std Error Mean**	0.12525889

Basic Statistical Measures			
Location		**Variability**	
Mean	4.499846	**Std Deviation**	2.27889
Median	4.000000	**Variance**	5.19332
Mode	3.400000	**Range**	15.88000
		Interquartile Range	3.03000

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

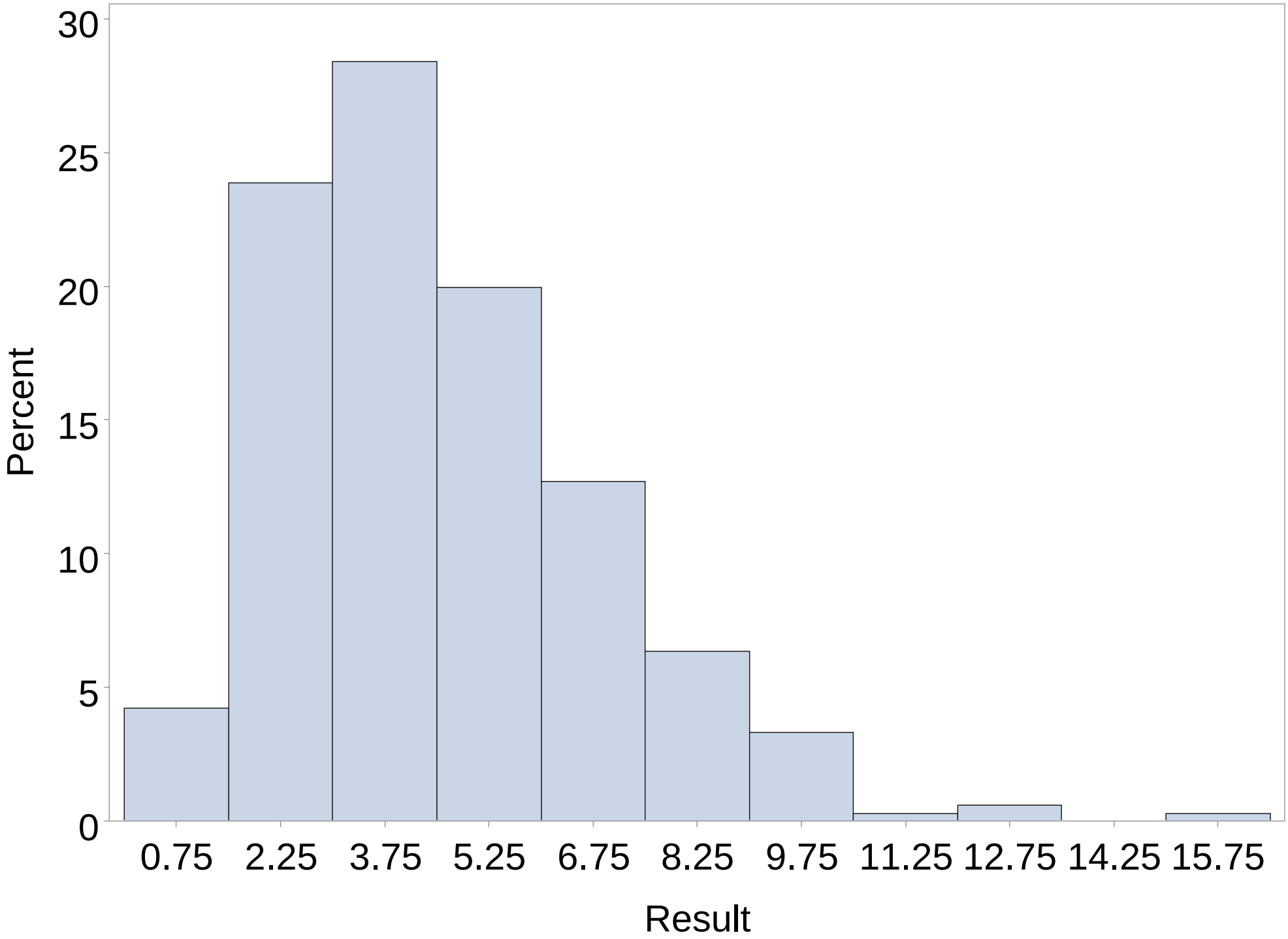
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.92436	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	16.000
99%	11.000
95%	8.650
90%	7.700
75% Q3	5.880
50% Median	4.000
25% Q1	2.850
10%	1.980
5%	1.550
1%	0.825
0% Min	0.120

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.120	105714	10.2	105748
0.336	105660	11.0	105746
0.651	105579	12.0	105759
0.825	105576	12.0	105874
0.840	105661	16.0	105747


Parameter=Silica (mg/L) STATION=5
Percent
30
25
20
15
10
5
0
0.75
2.25
3.75
5.25
6.75
8.25
9.75
11.25
12.75
14.25
15.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=6

Moments			
N	331	**Sum Weights**	331
Mean	4.30278852	**Sum Observations**	1424.223
Std Deviation	2.20270145	**Variance**	4.85189367
Skewness	0.80555024	**Kurtosis**	0.45796288
Uncorrected SS	7729.25529	**Corrected SS**	1601.12491
Coeff Variation	51.1924172	**Std Error Mean**	0.12107142

Basic Statistical Measures			
Location		**Variability**	
Mean	4.302789	**Std Deviation**	2.20270
Median	3.800000	**Variance**	4.85189
Mode	2.800000	**Range**	12.15000
		Interquartile Range	3.01000

Note: The mode displayed is the smallest of 3 modes with a count of 5.

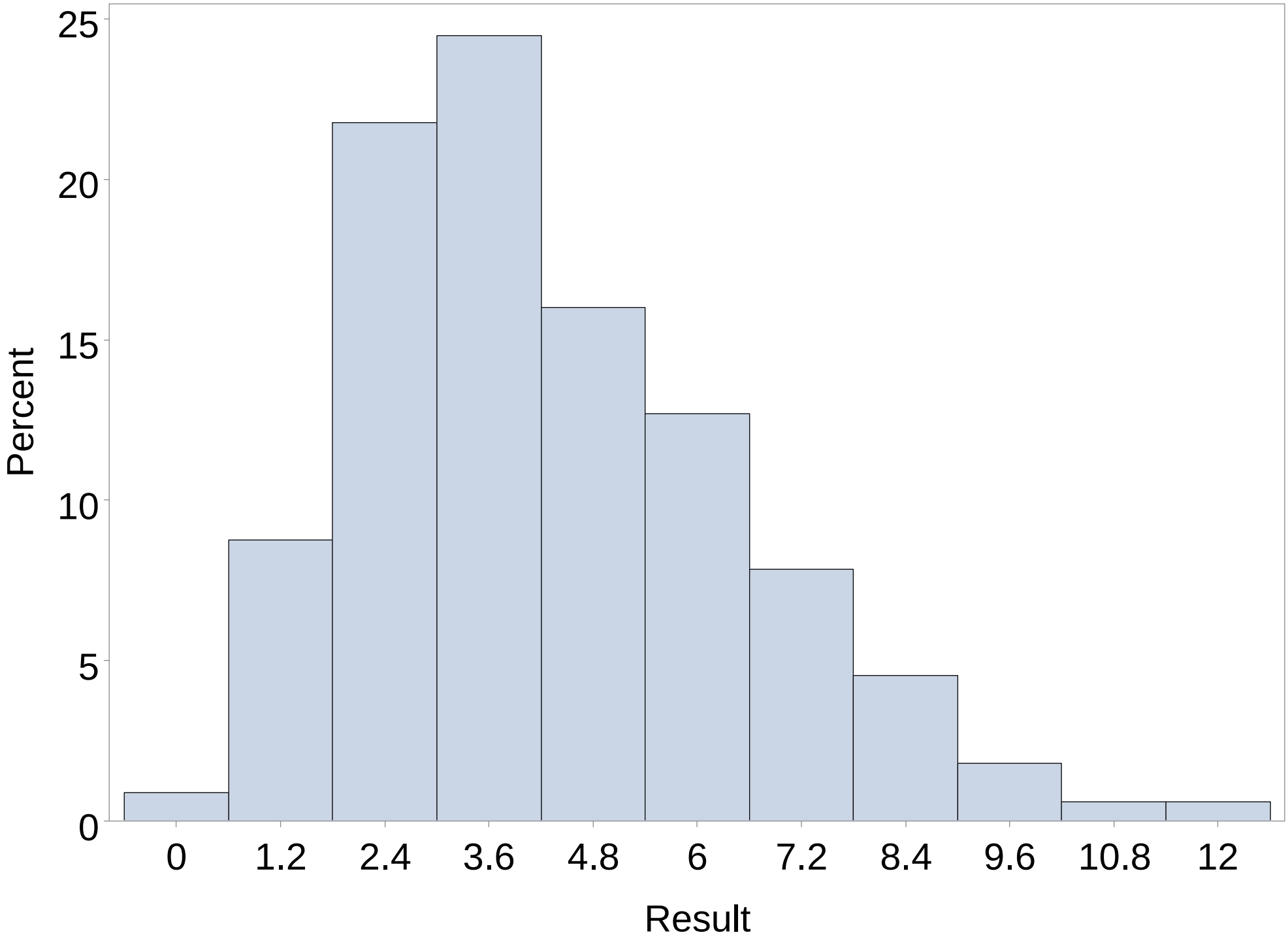
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.53926	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	12.200
99%	10.900
95%	8.400
90%	7.500
75% Q3	5.720
50% Median	3.800
25% Q1	2.710
10%	1.800
5%	1.430
1%	0.608
0% Min	0.050

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	105991	9.9	106198
0.307	106045	10.9	106205
0.468	105992	11.2	106077
0.608	105910	12.0	106090
0.850	105907	12.2	106078


Parameter=Silica (mg/L) STATION=6
Percent
25
20
15
10
5
0
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=7

Moments			
N	330	**Sum Weights**	330
Mean	4.04949091	**Sum Observations**	1336.332
Std Deviation	2.29865169	**Variance**	5.28379958
Skewness	0.94344966	**Kurtosis**	0.87513353
Uncorrected SS	7149.83435	**Corrected SS**	1738.37006
Coeff Variation	56.7639671	**Std Error Mean**	0.12653661

Basic Statistical Measures			
Location		**Variability**	
Mean	4.049491	**Std Deviation**	2.29865
Median	3.500000	**Variance**	5.28380
Mode	6.900000	**Range**	13.85000
		Interquartile Range	3.22000

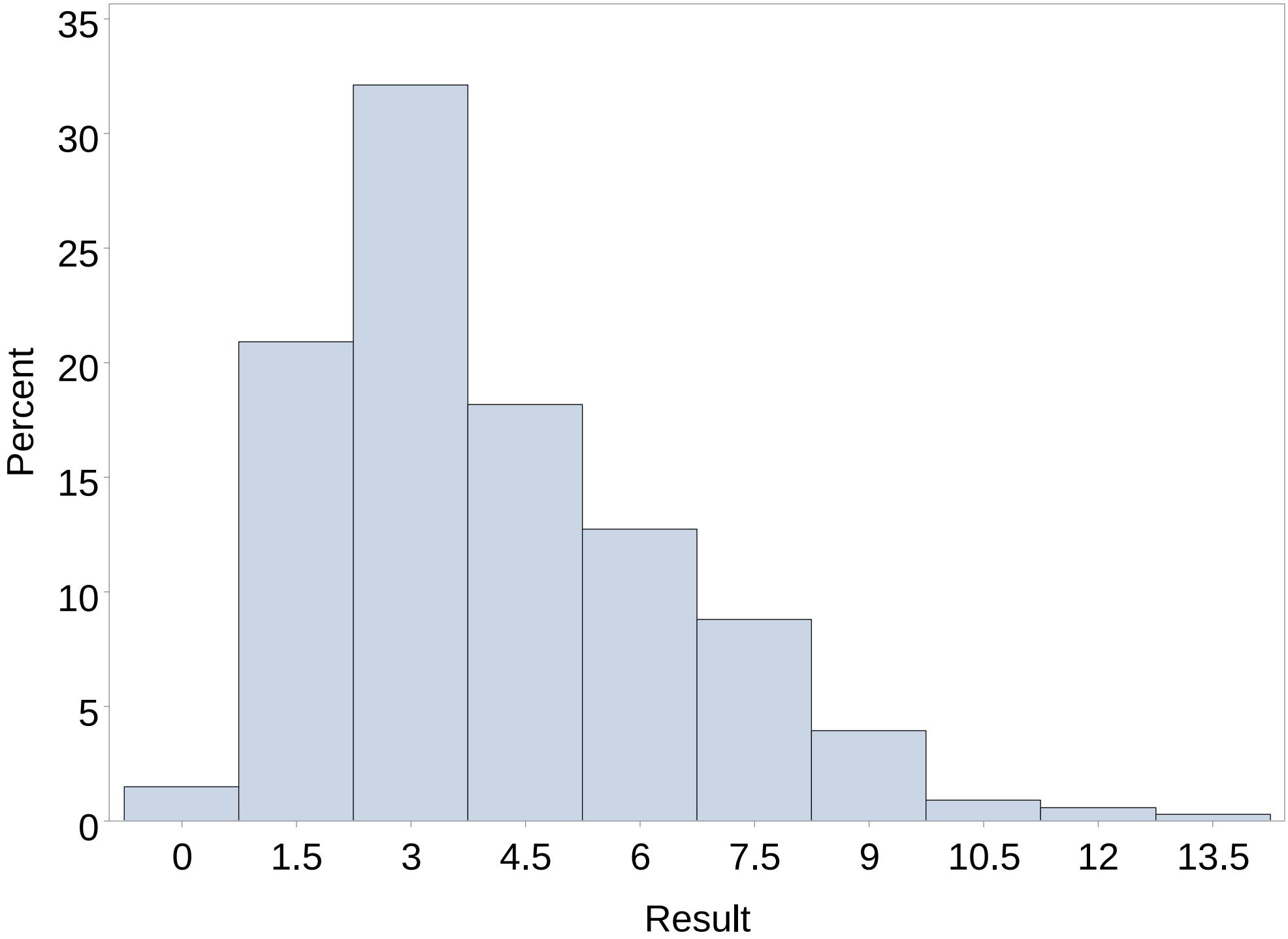
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	32.00252	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.900
99%	10.100
95%	8.500
90%	7.200
75% Q3	5.600
50% Median	3.500
25% Q1	2.380
10%	1.530
5%	1.140
1%	0.592
0% Min	0.050

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	106322	9.8	106419
0.089	106323	10.1	106407
0.508	106241	11.4	106535
0.592	106309	12.0	106420
0.655	106222	13.9	106408


Parameter=Silica (mg/L) STATION=7
Percent
35
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=8

Moments			
N	331	**Sum Weights**	331
Mean	4.0132719	**Sum Observations**	1328.393
Std Deviation	2.54603873	**Variance**	6.4823132
Skewness	1.12470018	**Kurtosis**	1.59495852
Uncorrected SS	7470.36566	**Corrected SS**	2139.16336
Coeff Variation	63.4404742	**Std Error Mean**	0.13994294

Basic Statistical Measures			
Location		**Variability**	
Mean	4.013272	**Std Deviation**	2.54604
Median	3.320000	**Variance**	6.48231
Mode	6.400000	**Range**	14.95000
		Interquartile Range	3.50000

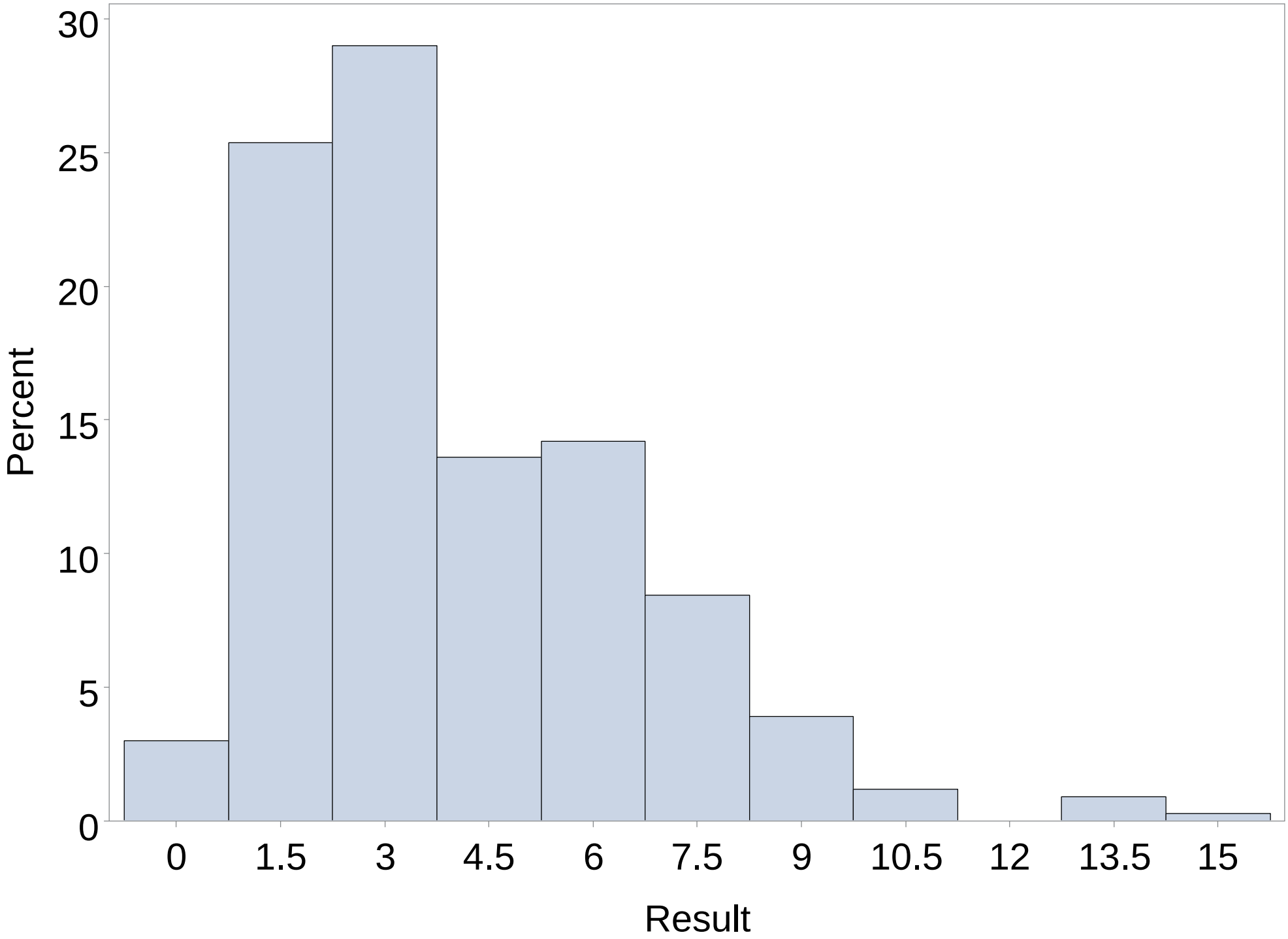
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	28.67792	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	15.000
99%	13.000
95%	8.800
90%	7.400
75% Q3	5.600
50% Median	3.320
25% Q1	2.100
10%	1.310
5%	0.955
1%	0.409
0% Min	0.050

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	106653	10.0	106855
0.050	106652	13.0	106866
0.330	106552	13.7	106859
0.409	106666	13.8	106739
0.415	106554	15.0	106753


Parameter=Silica (mg/L) STATION=8
Percent
30
25
20
15
10
5
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
15
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=9

Moments			
N	331	**Sum Weights**	331
Mean	3.6323142	**Sum Observations**	1202.296
Std Deviation	2.45490136	**Variance**	6.02654069
Skewness	0.95846987	**Kurtosis**	0.70904316
Uncorrected SS	6355.87526	**Corrected SS**	1988.75843
Coeff Variation	67.5850498	**Std Error Mean**	0.13493358

Basic Statistical Measures			
Location		**Variability**	
Mean	3.632314	**Std Deviation**	2.45490
Median	3.100000	**Variance**	6.02654
Mode	2.000000	**Range**	13.35000
		Interquartile Range	3.30000

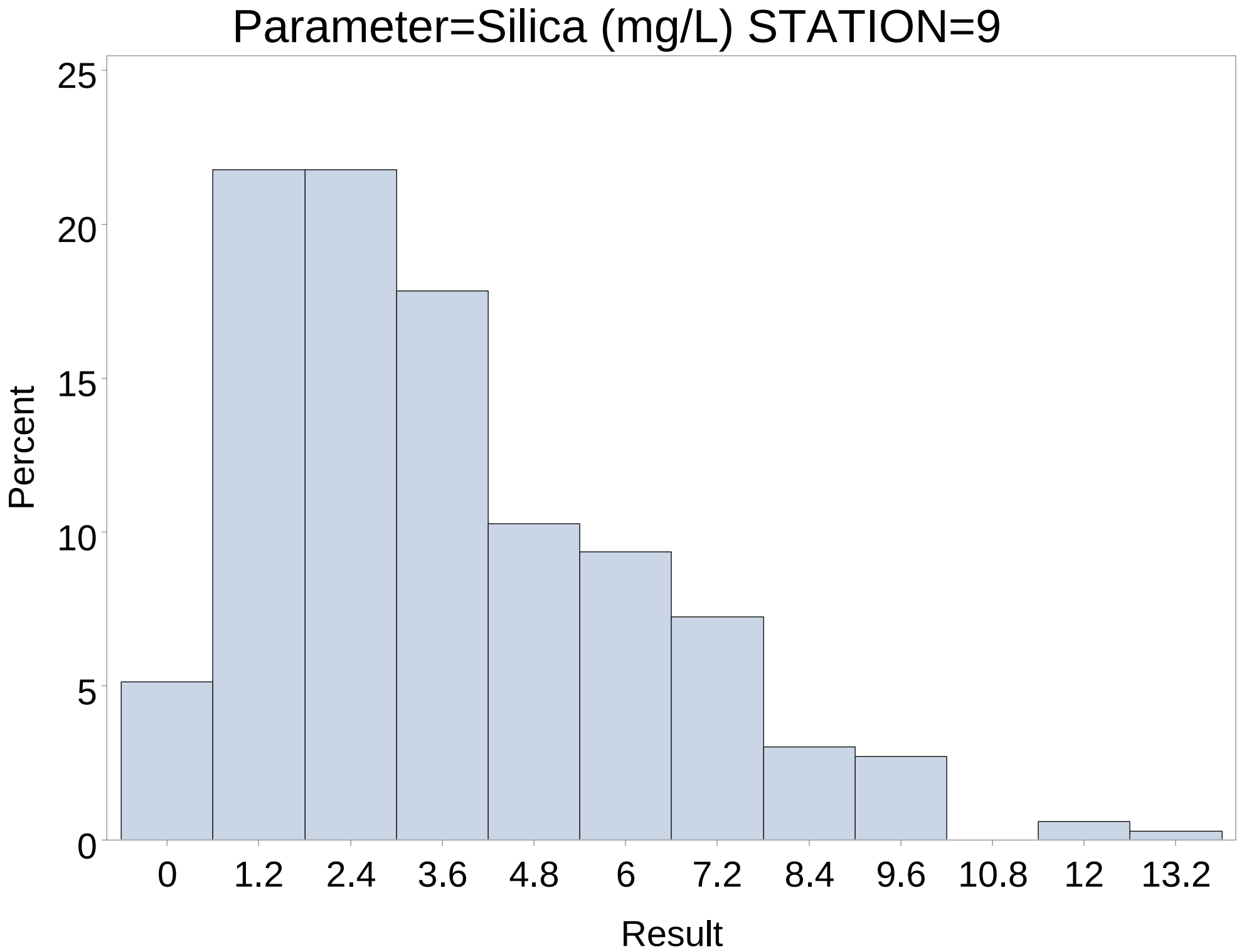
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.91927	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27471.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.300
99%	9.700
95%	8.300
90%	7.000
75% Q3	5.000
50% Median	3.100
25% Q1	1.700
10%	1.050
5%	0.597
1%	0.102
0% Min	-0.050

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Silica (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.050	106992	9.5	107186
0.050	106984	9.7	107082
0.064	106983	12.2	107190
0.102	106997	12.3	107197
0.120	107161	13.3	107070


Parameter=Silica (mg/L) STATION=9
Percent
25
20
15
10
5
0
0
1.2
2.4
3.6
4.8
6
7.2
8.4
9.6
10.8
12
13.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	23.780597	**Sum Observations**	7966.5
Std Deviation	4.50370569	**Variance**	20.2833649
Skewness	-0.4885955	**Kurtosis**	-0.659609
Uncorrected SS	196222.77	**Corrected SS**	6774.64388
Coeff Variation	18.9385728	**Std Error Mean**	0.24606373

Basic Statistical Measures			
Location		**Variability**	
Mean	23.78060	**Std Deviation**	4.50371
Median	24.60000	**Variance**	20.28336
Mode	27.80000	**Range**	21.80000
		Interquartile Range	7.70000

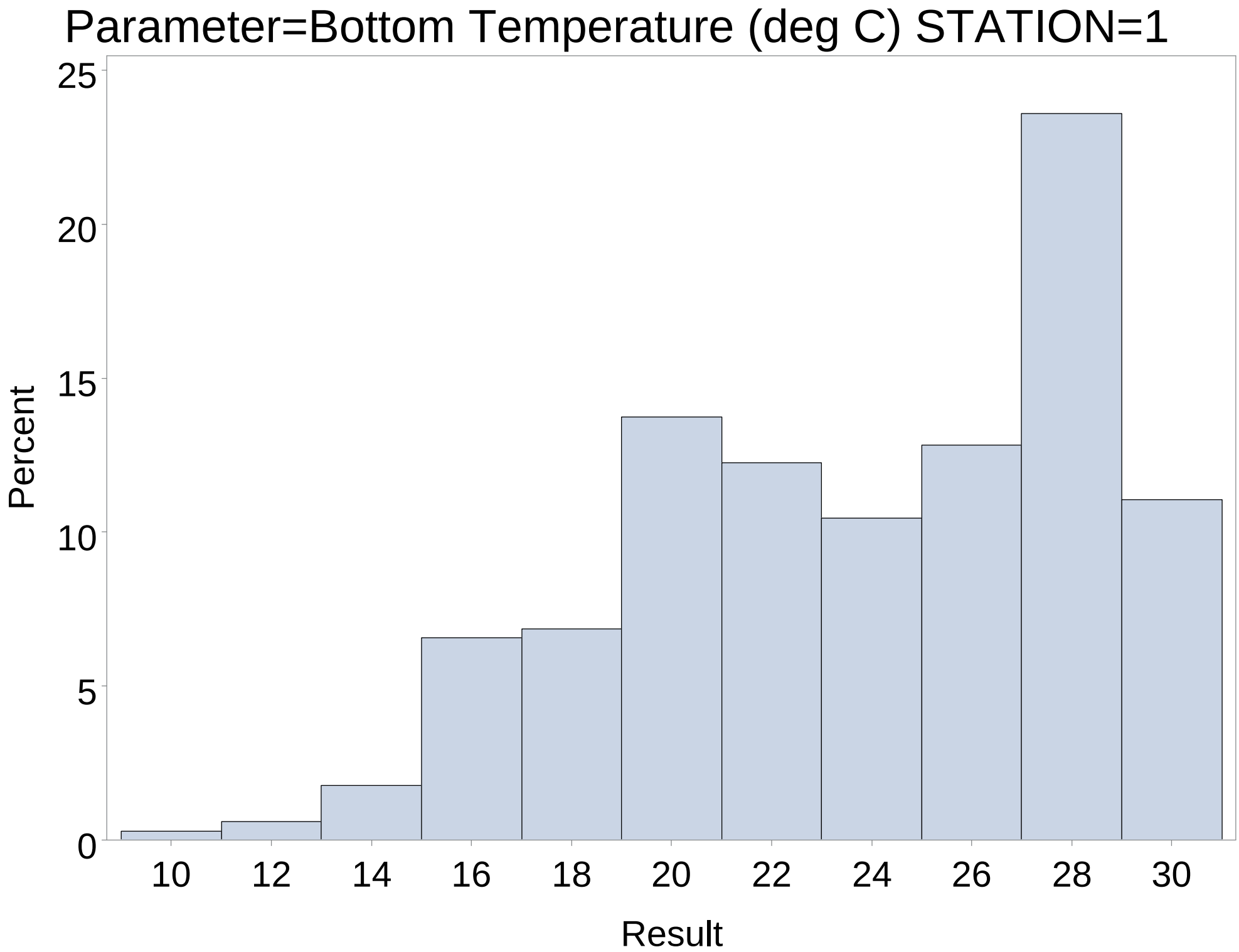
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	96.64406	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.8
99%	30.5
95%	29.7
90%	29.1
75% Q3	27.8
50% Median	24.6
25% Q1	20.1
10%	17.4
5%	16.0
1%	13.7
0% Min	9.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.0	107431	30.4	107221
11.1	107323	30.5	107402
12.7	107442	30.6	107293
13.7	107264	30.7	107522
14.0	107455	30.8	107257


Parameter=Bottom Temperature (deg C) STATION=1
Percent
25
20
15
10
5
0
10
12
14
16
18
20
22
24
26
28
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	23.2159159	**Sum Observations**	7730.9
Std Deviation	4.3518538	**Variance**	18.9386315
Skewness	-0.4807353	**Kurtosis**	-0.7245558
Uncorrected SS	185767.55	**Corrected SS**	6287.62565
Coeff Variation	18.7451308	**Std Error Mean**	0.23848012

Basic Statistical Measures			
Location		**Variability**	
Mean	23.21592	**Std Deviation**	4.35185
Median	23.90000	**Variance**	18.93863
Mode	27.00000	**Range**	21.40000
		Interquartile Range	7.30000

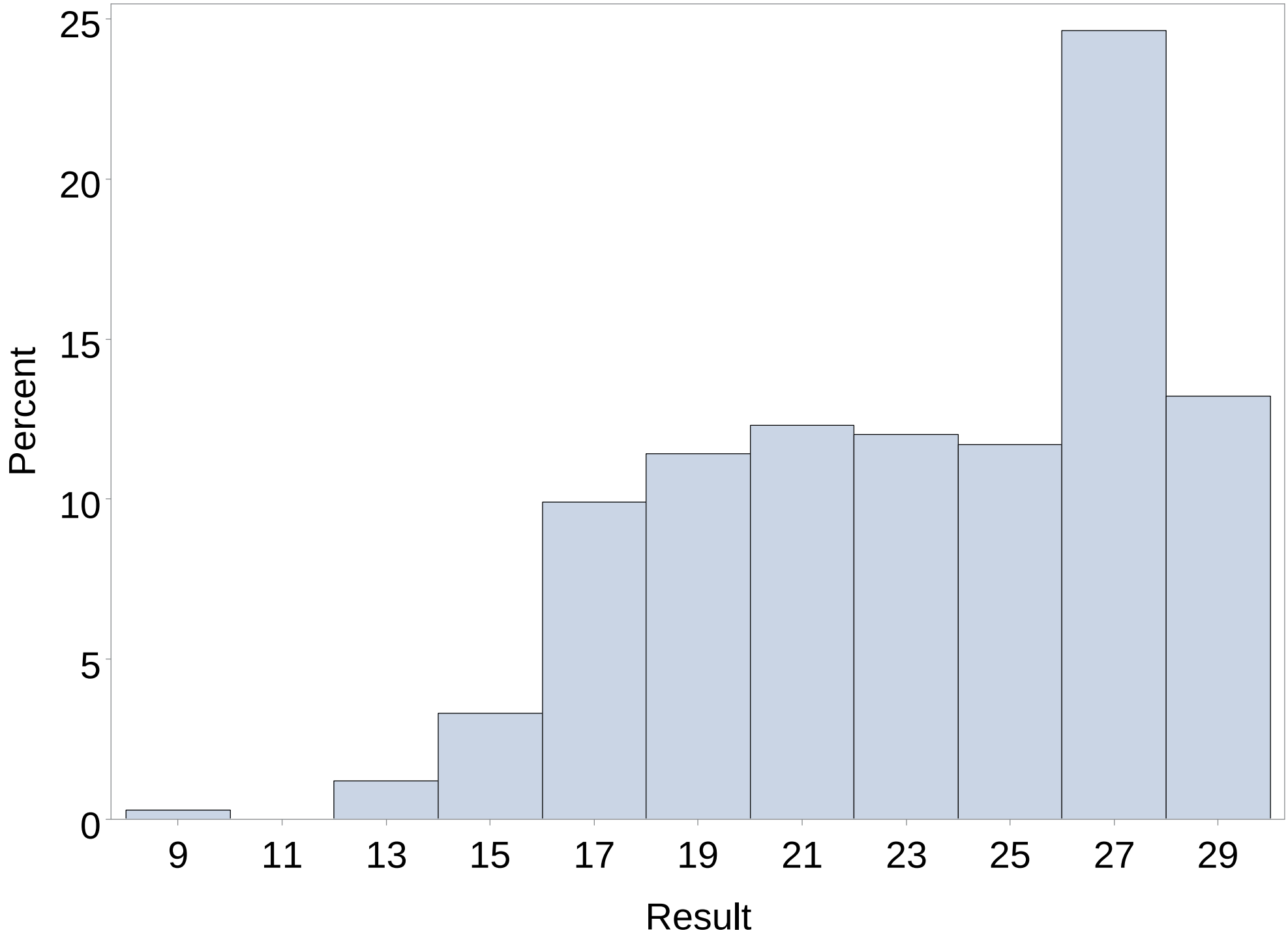
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	97.34948	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.8
99%	29.3
95%	28.7
90%	28.3
75% Q3	27.0
50% Median	23.9
25% Q1	19.7
10%	17.2
5%	16.0
1%	13.2
0% Min	8.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.4	107764	29.2	107711
12.5	107775	29.3	107769
12.6	107657	29.4	107866
13.2	107860	29.5	107735
13.9	107681	29.8	107628


Parameter=Bottom Temperature (deg C) STATION=2
Percent
25
20
15
10
5
0
9
11
13
15
17
19
21
23
25
27
29
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	24.1567568	**Sum Observations**	8044.2
Std Deviation	4.53528911	**Variance**	20.5688473
Skewness	-0.9761919	**Kurtosis**	1.52650974
Uncorrected SS	201150.64	**Corrected SS**	6828.8573
Coeff Variation	18.7744123	**Std Error Mean**	0.24853231

Basic Statistical Measures			
Location		**Variability**	
Mean	24.15676	**Std Deviation**	4.53529
Median	25.20000	**Variance**	20.56885
Mode	26.80000	**Range**	30.60000
		Interquartile Range	6.80000

Note: The mode displayed is the smallest of 3 modes with a count of 7.

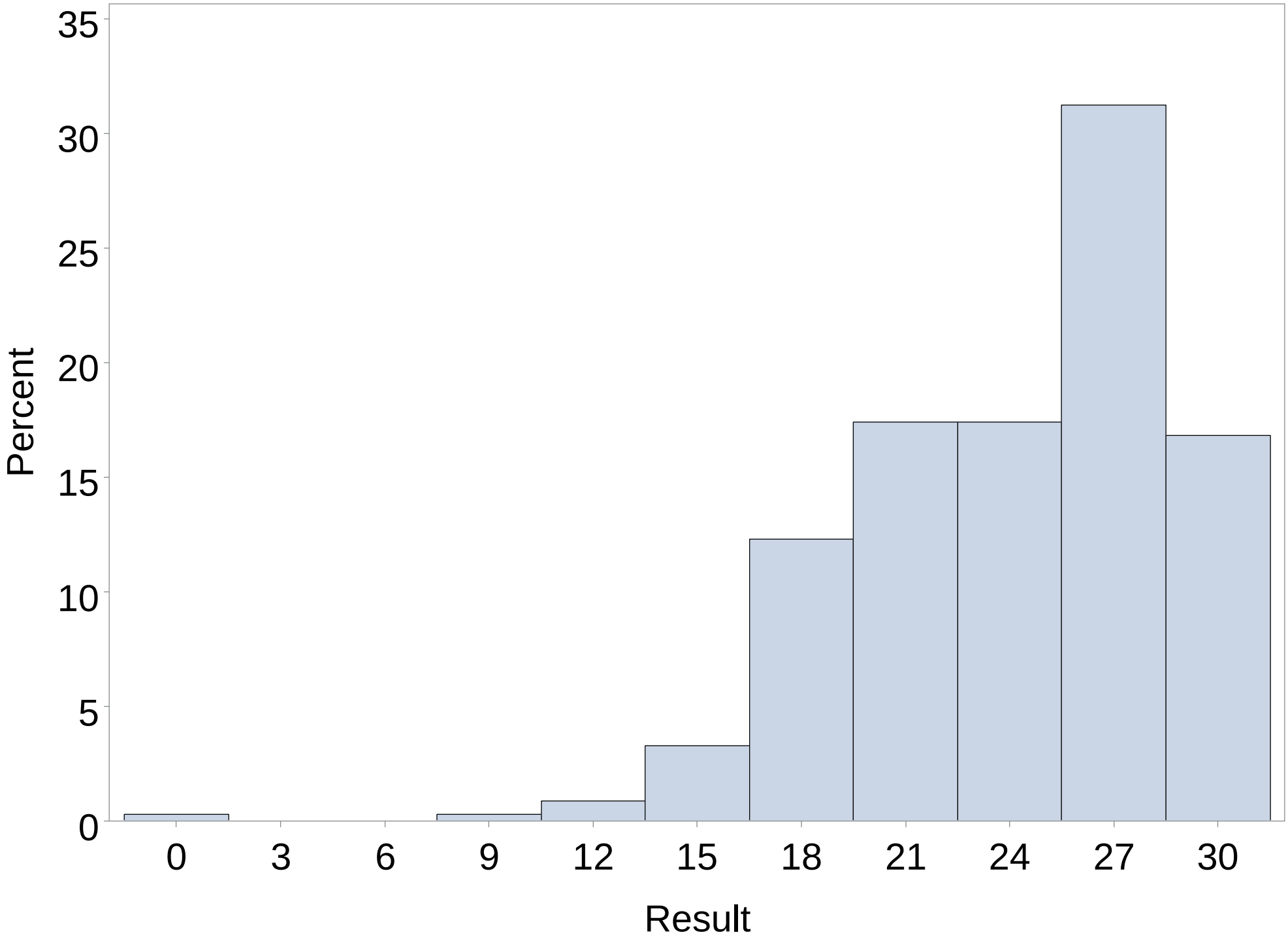
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	97.19765	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.0
99%	30.4
95%	29.7
90%	29.1
75% Q3	27.8
50% Median	25.2
25% Q1	21.0
10%	17.9
5%	16.5
1%	11.9
0% Min	0.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	108195	30.2	108092
9.8	108097	30.4	107889
11.1	108108	30.4	107902
11.9	107990	30.5	107925
13.1	108121	31.0	108199


Parameter=Bottom Temperature (deg C) STATION=3
Percent
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=4

Moments			
N	334	**Sum Weights**	334
Mean	24.6251497	**Sum Observations**	8224.8
Std Deviation	4.07276486	**Variance**	16.5874136
Skewness	-0.6012309	**Kurtosis**	-0.4779875
Uncorrected SS	208060.54	**Corrected SS**	5523.60874
Coeff Variation	16.5390461	**Std Error Mean**	0.22285178

Basic Statistical Measures			
Location		**Variability**	
Mean	24.62515	**Std Deviation**	4.07276
Median	25.60000	**Variance**	16.58741
Mode	27.90000	**Range**	20.90000
		Interquartile Range	6.40000

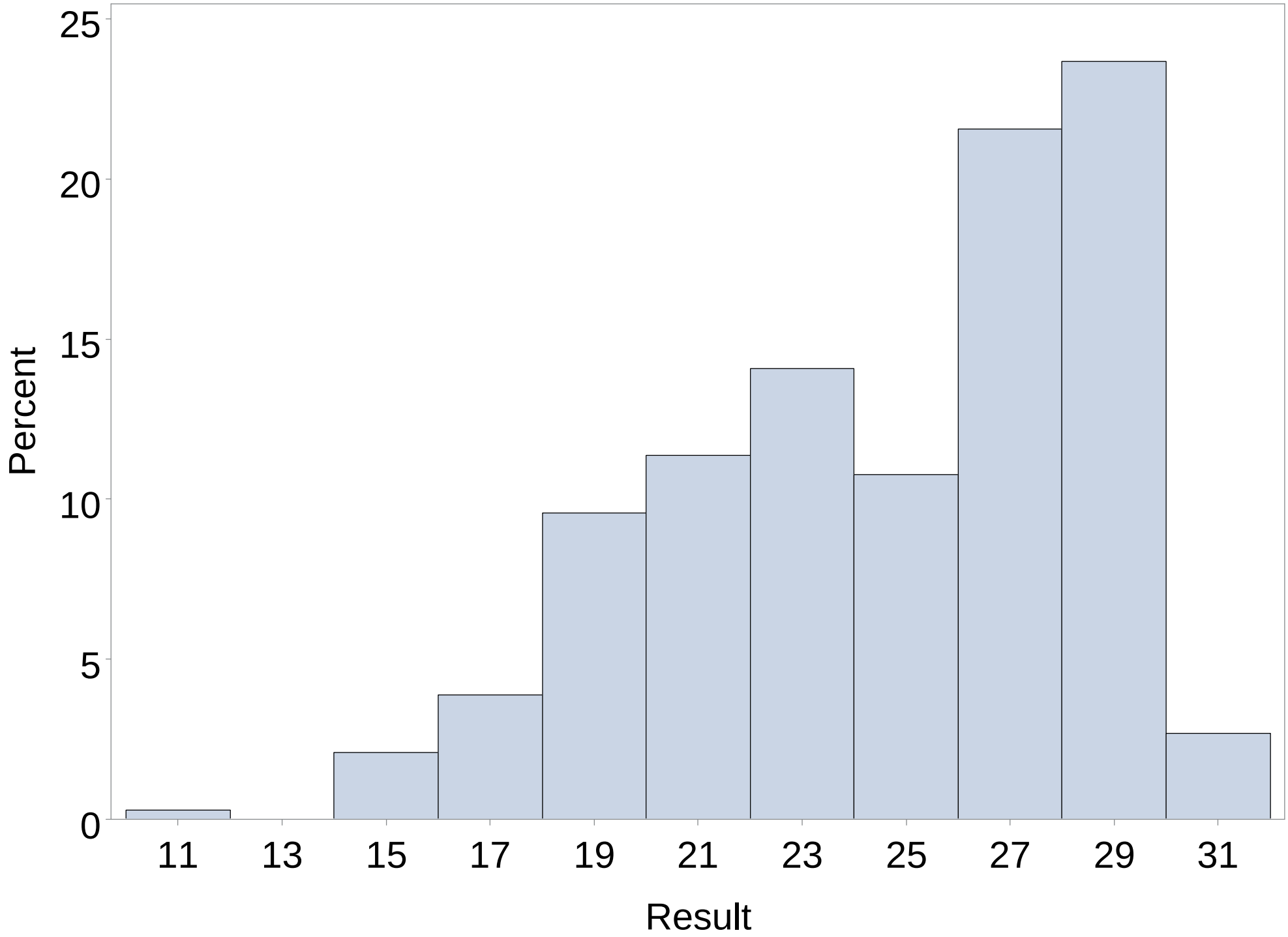
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.5001	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.2
99%	30.2
95%	29.7
90%	29.3
75% Q3	28.1
50% Median	25.6
25% Q1	21.7
10%	18.9
5%	17.1
1%	15.2
0% Min	10.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.3	108431	30.2	108437
14.5	108265	30.2	108486
14.9	108336	30.8	108294
15.2	108253	31.0	108258
15.4	108277	31.2	108222


Parameter=Bottom Temperature (deg C) STATION=4
Percent
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	24.6776119	**Sum Observations**	8267
Std Deviation	4.15052918	**Variance**	17.2268925
Skewness	-0.6605274	**Kurtosis**	-0.287955
Uncorrected SS	209763.6	**Corrected SS**	5753.78209
Coeff Variation	16.8190066	**Std Error Mean**	0.22676763

Basic Statistical Measures			
Location		**Variability**	
Mean	24.67761	**Std Deviation**	4.15053
Median	25.50000	**Variance**	17.22689
Mode	25.40000	**Range**	20.40000
		Interquartile Range	6.40000

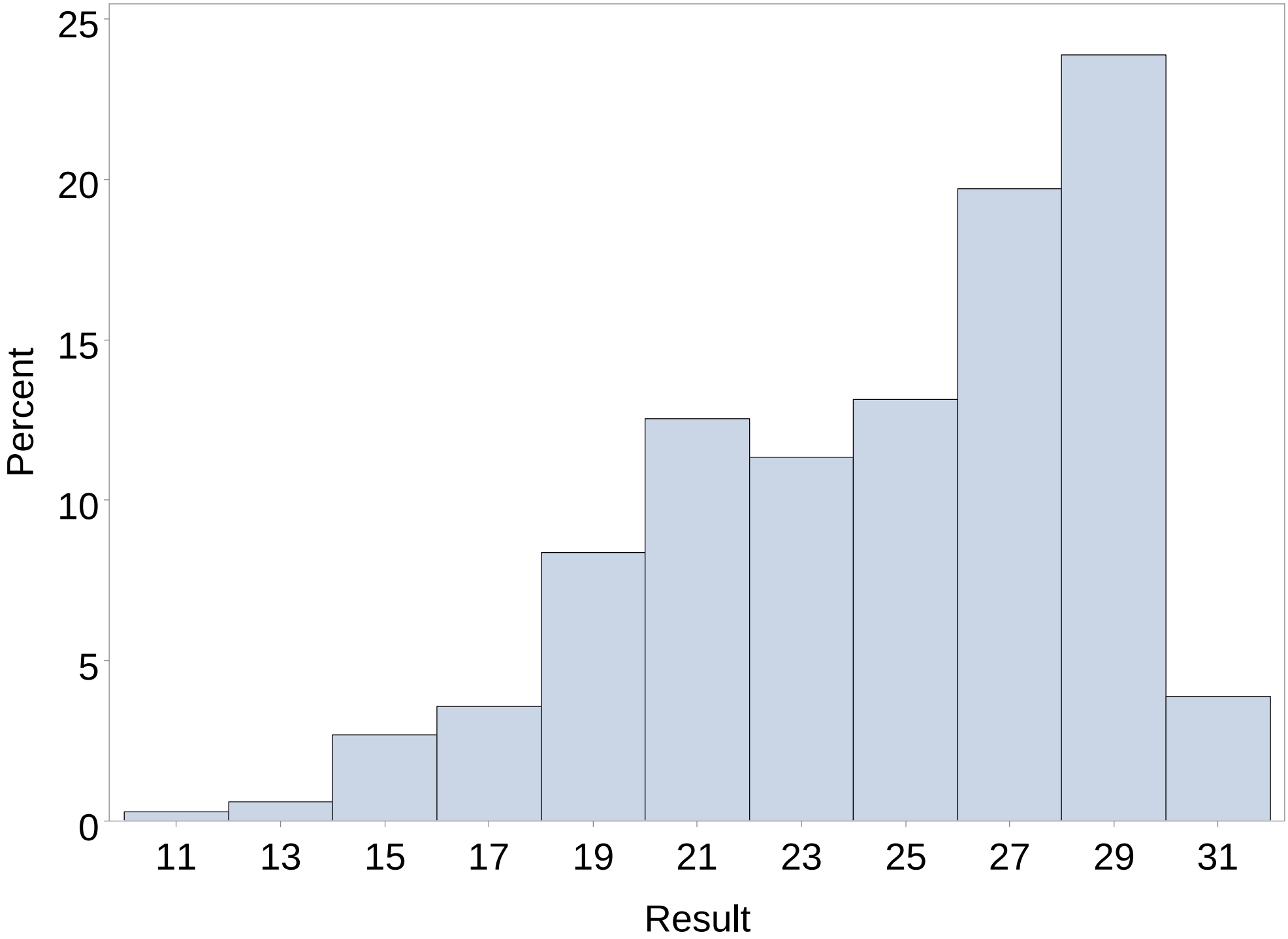
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.8233	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.2
99%	30.6
95%	29.7
90%	29.5
75% Q3	28.2
50% Median	25.5
25% Q1	21.8
10%	18.9
5%	17.2
1%	14.3
0% Min	10.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.8	108766	30.6	108630
12.5	108777	30.6	108821
13.1	108658	30.9	108593
14.3	108659	31.0	108629
14.5	108671	31.2	108556


Parameter=Bottom Temperature (deg C) STATION=5
Percent
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	24.9537538	**Sum Observations**	8309.6
Std Deviation	4.15031854	**Variance**	17.225144
Skewness	-0.6366989	**Kurtosis**	-0.3694133
Uncorrected SS	213074.46	**Corrected SS**	5718.74781
Coeff Variation	16.6320409	**Std Error Mean**	0.22743606

Basic Statistical Measures			
Location		**Variability**	
Mean	24.95375	**Std Deviation**	4.15032
Median	25.70000	**Variance**	17.22514
Mode	27.70000	**Range**	19.90000
		Interquartile Range	6.40000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

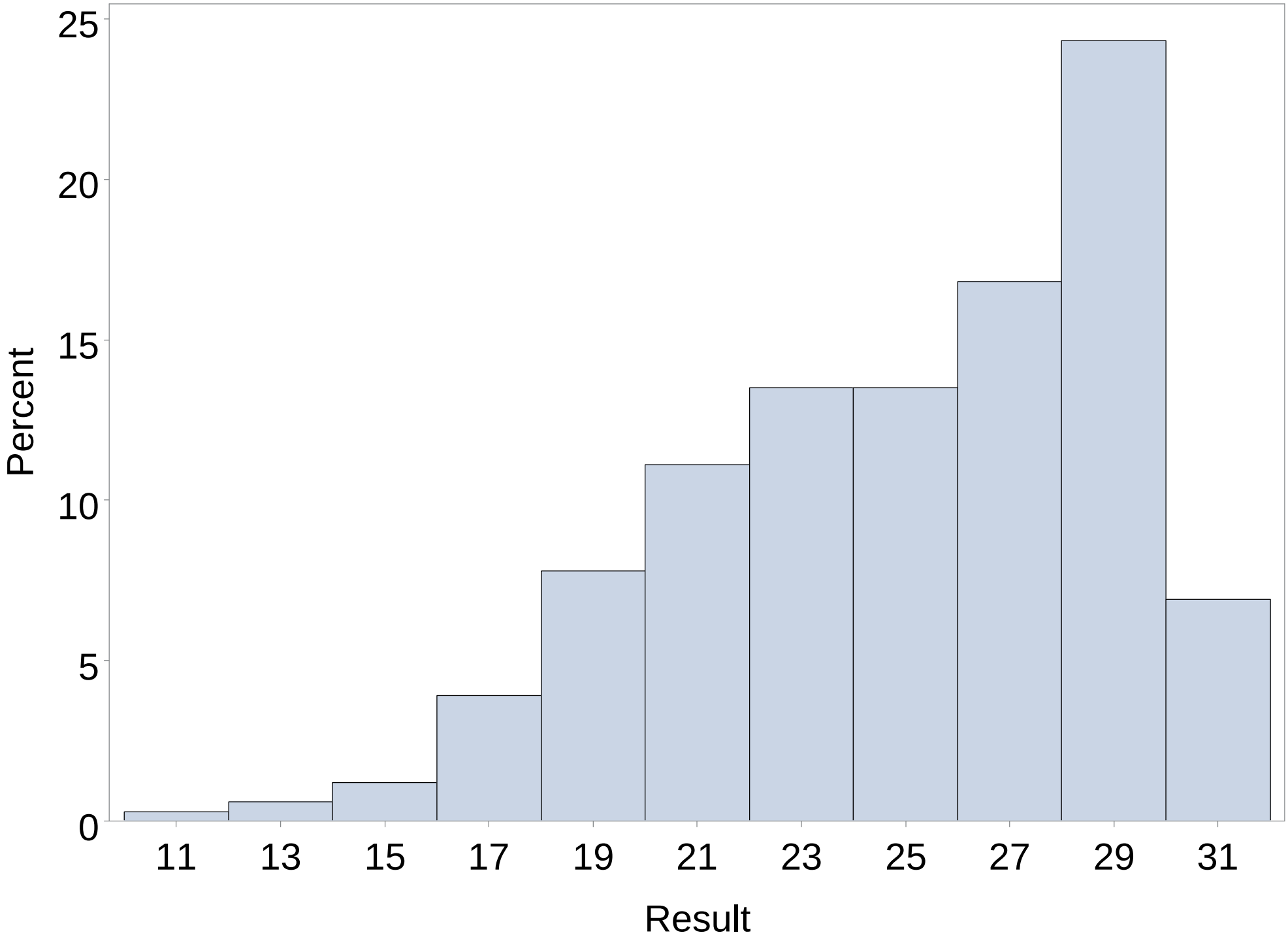
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.7177	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.4
99%	31.1
95%	30.1
90%	29.7
75% Q3	28.4
50% Median	25.7
25% Q1	22.0
10%	19.2
5%	17.5
1%	14.8
0% Min	11.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.5	109099	31.0	109190
13.0	109110	31.1	108927
13.4	108993	31.1	109154
14.8	109005	31.3	108963
15.0	109123	31.4	108891


Parameter=Bottom Temperature (deg C) STATION=6
Percent
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	25.0051051	**Sum Observations**	8326.7
Std Deviation	4.27823059	**Variance**	18.303257
Skewness	-0.6878955	**Kurtosis**	-0.2523687
Uncorrected SS	214286.69	**Corrected SS**	6076.68132
Coeff Variation	17.1094285	**Std Error Mean**	0.23444559

Basic Statistical Measures			
Location		**Variability**	
Mean	25.00511	**Std Deviation**	4.27823
Median	25.70000	**Variance**	18.30326
Mode	28.60000	**Range**	19.80000
		Interquartile Range	6.60000

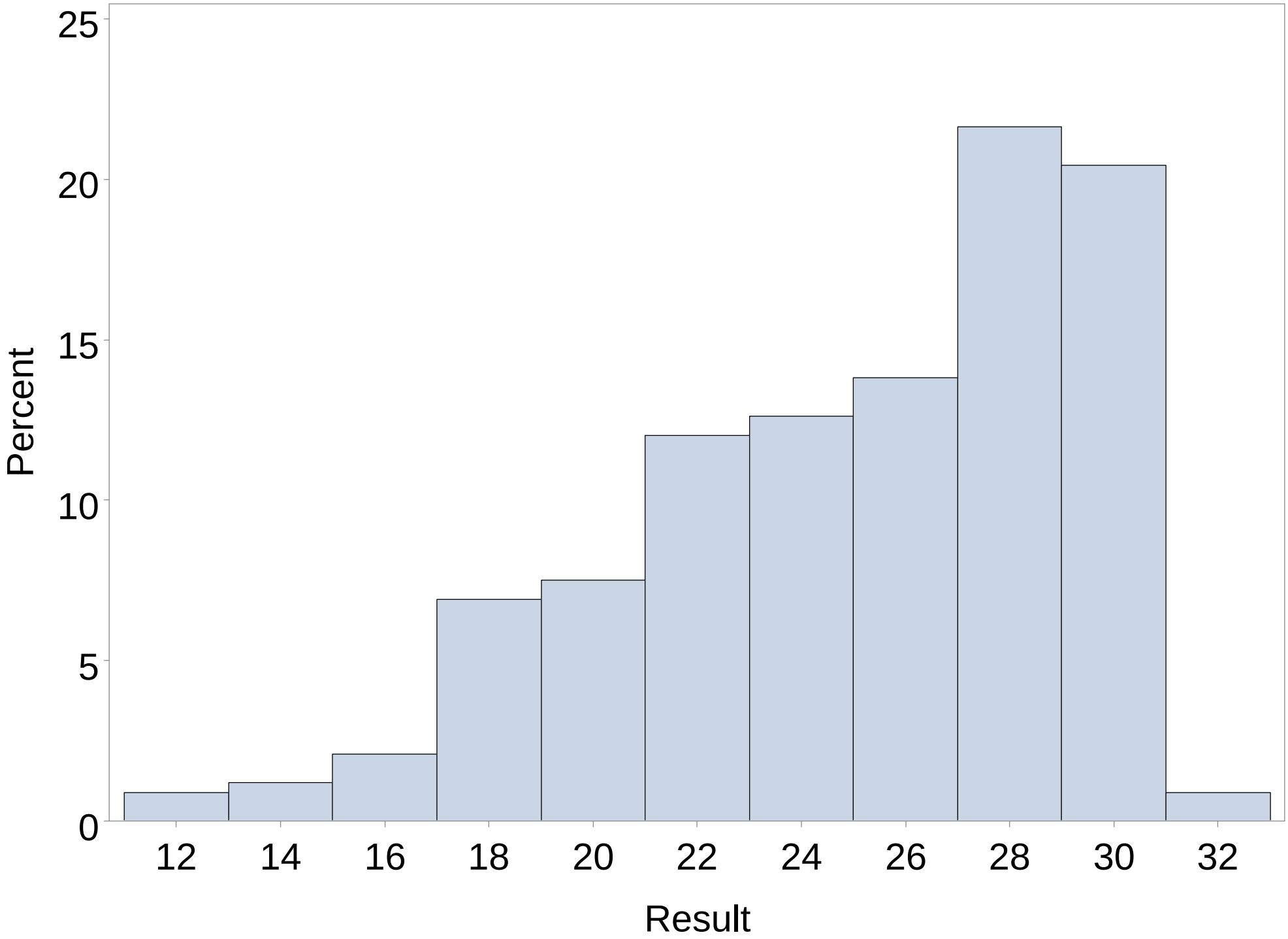
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	106.6563	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.7
99%	30.9
95%	30.3
90%	29.8
75% Q3	28.6
50% Median	25.7
25% Q1	22.0
10%	18.9
5%	17.4
1%	14.1
0% Min	11.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.9	109432	30.9	109247
12.2	109443	30.9	109523
12.2	109326	31.4	109296
14.1	109456	31.5	109224
14.2	109421	31.7	109260


Parameter=Bottom Temperature (deg C) STATION=7
Percent
25
20
15
10
5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	24.7801802	**Sum Observations**	8251.8
Std Deviation	8.05157868	**Variance**	64.8279192
Skewness	-11.067927	**Kurtosis**	168.496048
Uncorrected SS	226003.96	**Corrected SS**	21522.8692
Coeff Variation	32.4920102	**Std Error Mean**	0.44122379

Basic Statistical Measures			
Location		**Variability**	
Mean	24.78018	**Std Deviation**	8.05158
Median	26.00000	**Variance**	64.82792
Mode	28.10000	**Range**	131.80000
		Interquartile Range	6.30000

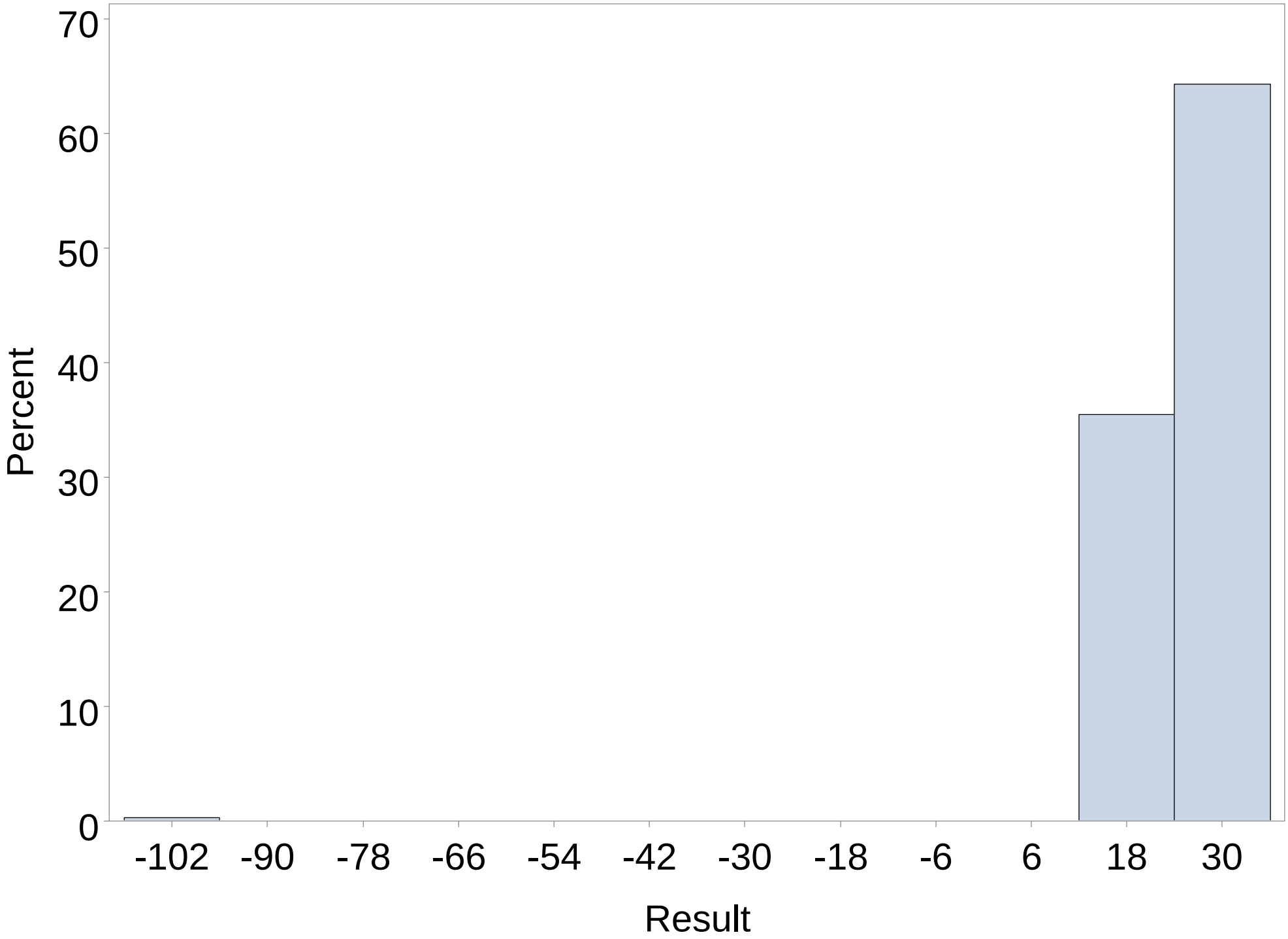
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	56.16238	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27472.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.8
99%	31.8
95%	30.6
90%	30.1
75% Q3	28.5
50% Median	26.0
25% Q1	22.2
10%	18.8
5%	17.3
1%	13.0
0% Min	-99.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.0	109739	31.6	109831
12.1	109659	31.8	109606
12.3	109765	31.9	109629
13.0	109776	32.2	109593
14.3	109789	32.8	109843


Parameter=Bottom Temperature (deg C) STATION=8
Percent
70
60
50
40
30
20
10
0
-102
-90
-78
-66
-54
-42
-30
-18
-6
6
18
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	25.1306306	**Sum Observations**	8368.5
Std Deviation	4.37559207	**Variance**	19.1458059
Skewness	-0.6499194	**Kurtosis**	-0.3211489
Uncorrected SS	216662.09	**Corrected SS**	6356.40757
Coeff Variation	17.4113898	**Std Error Mean**	0.23978097

Basic Statistical Measures			
Location		**Variability**	
Mean	25.13063	**Std Deviation**	4.37559
Median	25.90000	**Variance**	19.14581
Mode	30.10000	**Range**	20.30000
		Interquartile Range	6.80000

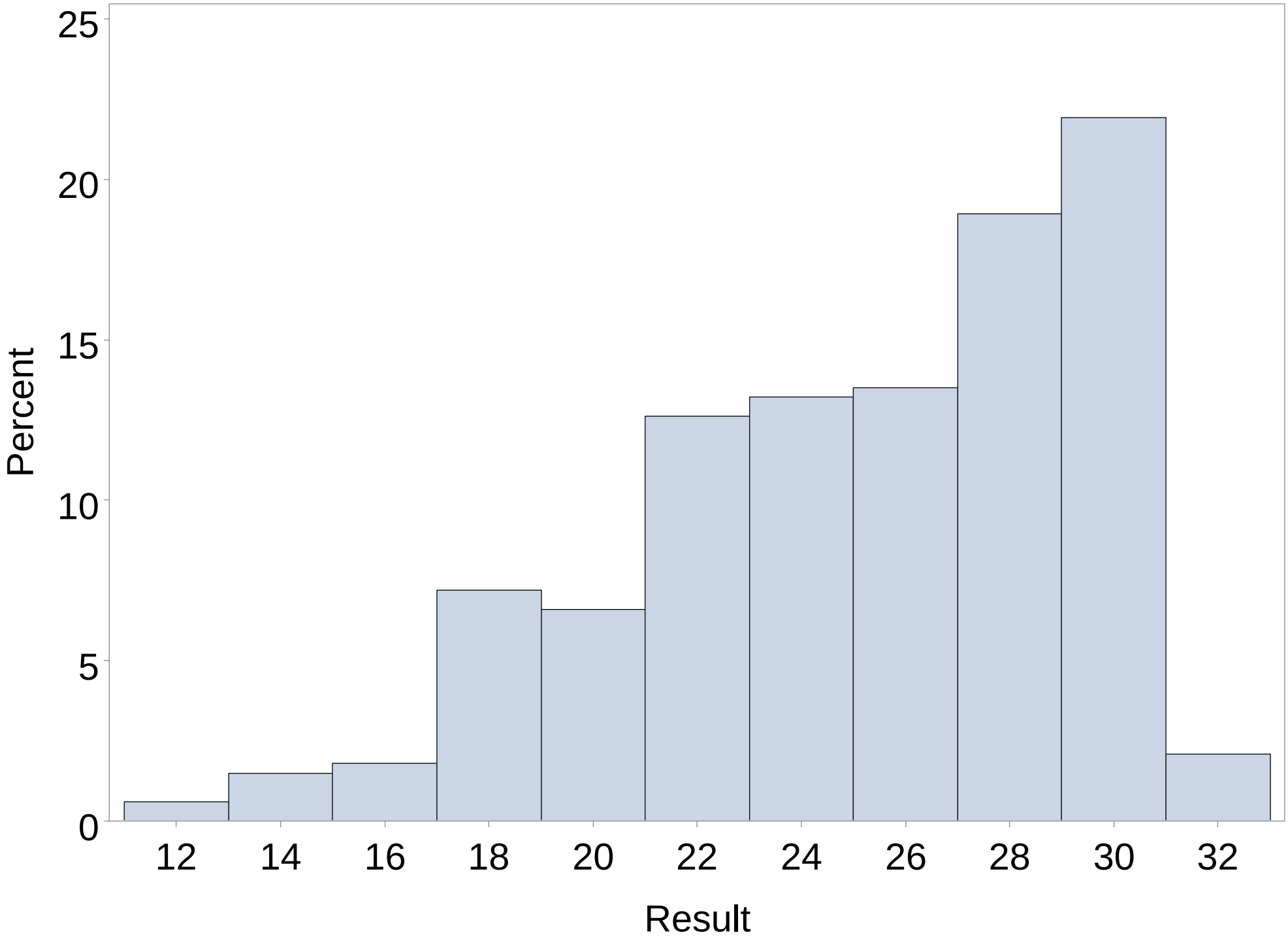
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	104.8066	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.2
99%	31.4
95%	30.6
90%	30.1
75% Q3	28.9
50% Median	25.9
25% Q1	22.1
10%	18.8
5%	17.6
1%	13.7
0% Min	11.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.9	110098	31.2	110153
12.3	109992	31.4	110069
13.1	110109	31.6	109962
13.7	110004	32.2	109890
13.8	110087	32.2	109926


Parameter=Bottom Temperature (deg C) STATION=9
Percent
25
20
15
10
5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=10

Moments			
N	335	**Sum Weights**	335
Mean	24.4465672	**Sum Observations**	8189.6
Std Deviation	7.91385762	**Variance**	62.6291424
Skewness	-11.482248	**Kurtosis**	177.624229
Uncorrected SS	221125.74	**Corrected SS**	20918.1336
Coeff Variation	32.3720609	**Std Error Mean**	0.43238023

Basic Statistical Measures			
Location		**Variability**	
Mean	24.44657	**Std Deviation**	7.91386
Median	25.90000	**Variance**	62.62914
Mode	28.40000	**Range**	130.30000
		Interquartile Range	6.70000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

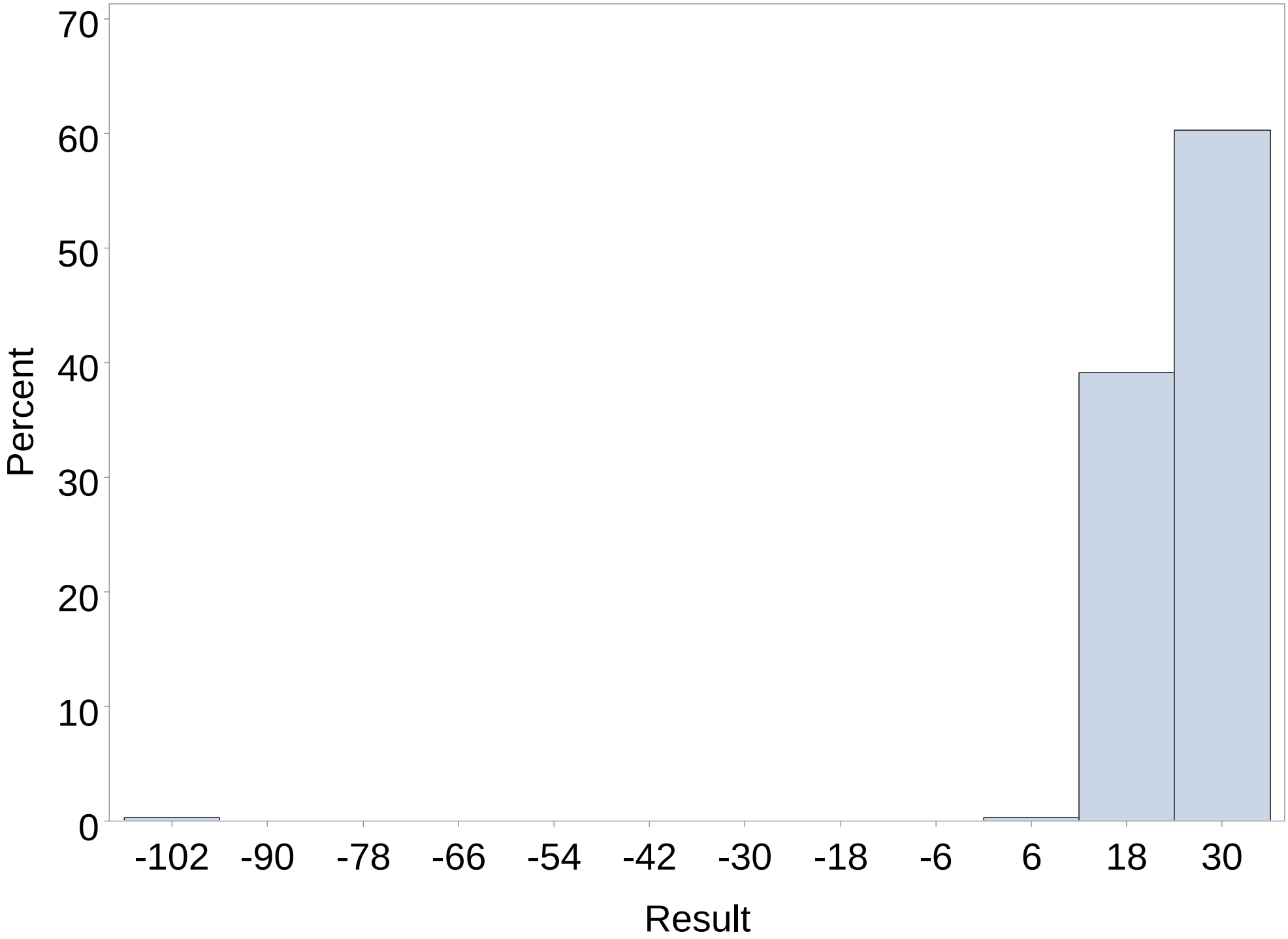
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	56.53951	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.3
99%	30.7
95%	29.9
90%	29.4
75% Q3	28.4
50% Median	25.9
25% Q1	21.7
10%	18.8
5%	17.5
1%	14.1
0% Min	-99.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.0	110403	30.6	110213
10.8	110433	30.7	110511
12.9	110444	30.9	110260
14.1	110338	31.1	110296
15.0	110267	31.3	110224


Parameter=Bottom Temperature (deg C) STATION=10
Percent
70
60
50
40
30
20
10
0
-102
-90
-78
-66
-54
-42
-30
-18
-6
6
18
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	24.7370482	**Sum Observations**	8212.7
Std Deviation	4.0951649	**Variance**	16.7703756
Skewness	-0.6258691	**Kurtosis**	-0.4892682
Uncorrected SS	208708.95	**Corrected SS**	5550.99431
Coeff Variation	16.554784	**Std Error Mean**	0.22475137

Basic Statistical Measures			
Location		**Variability**	
Mean	24.73705	**Std Deviation**	4.09516
Median	25.70000	**Variance**	16.77038
Mode	28.00000	**Range**	20.10000
		Interquartile Range	6.55000

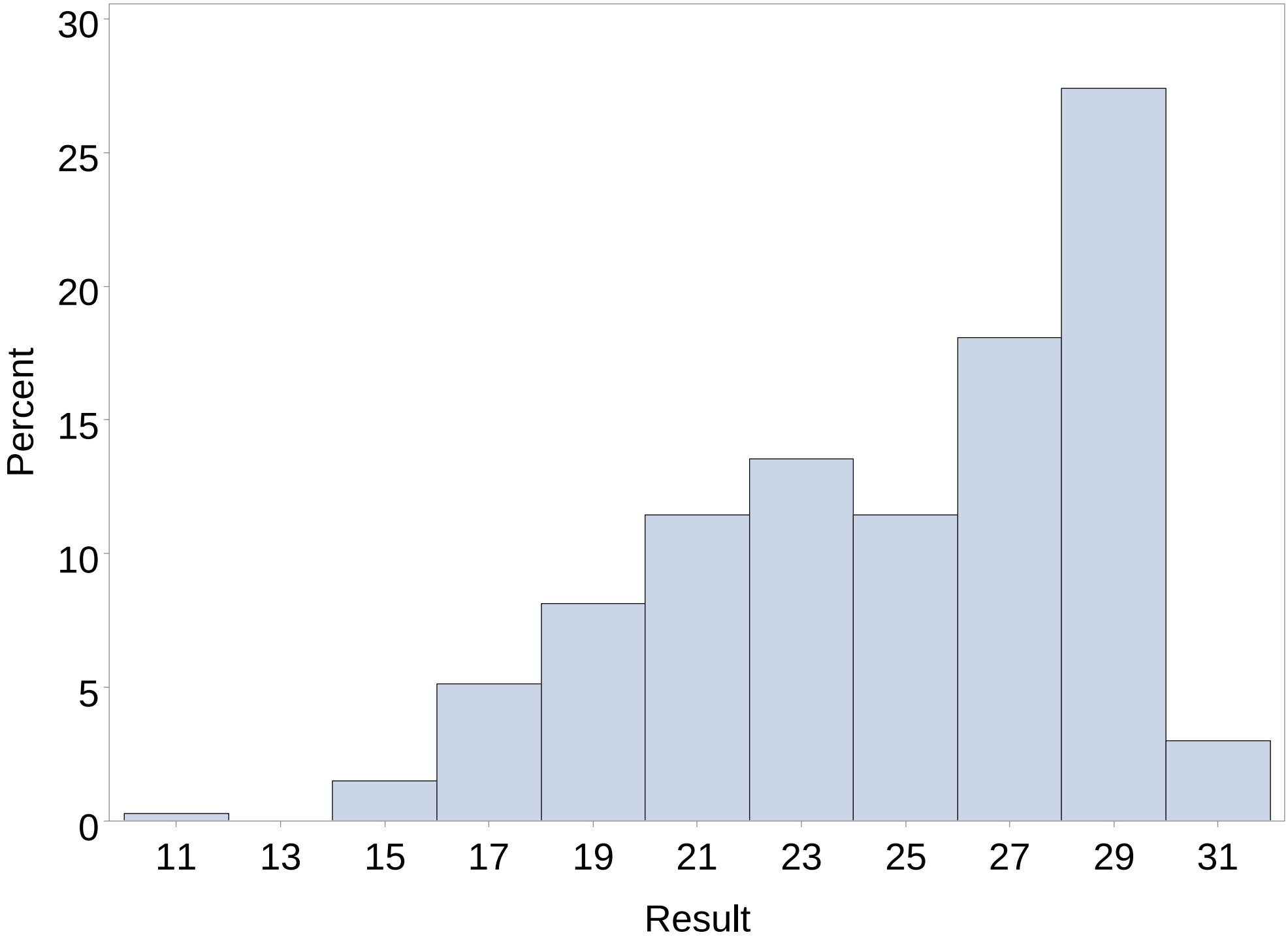
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.0641	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.20
99%	30.60
95%	29.80
90%	29.40
75% Q3	28.30
50% Median	25.70
25% Q1	21.75
10%	18.70
5%	17.30
1%	15.00
0% Min	11.10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.1	110765	30.4	110771
14.0	110776	30.6	110843
14.3	110671	30.9	110630
15.0	110683	31.1	110558
15.1	110601	31.2	110594


Parameter=Bottom Temperature (deg C) STATION=11
Percent
30
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=12

Moments			
N	333	**Sum Weights**	333
Mean	24.6351351	**Sum Observations**	8203.5
Std Deviation	4.14904508	**Variance**	17.2145751
Skewness	-0.7284228	**Kurtosis**	0.21263233
Uncorrected SS	207809.57	**Corrected SS**	5715.23892
Coeff Variation	16.8419822	**Std Error Mean**	0.22736627

Basic Statistical Measures			
Location		**Variability**	
Mean	24.63514	**Std Deviation**	4.14905
Median	25.40000	**Variance**	17.21458
Mode	29.30000	**Range**	24.30000
		Interquartile Range	6.70000

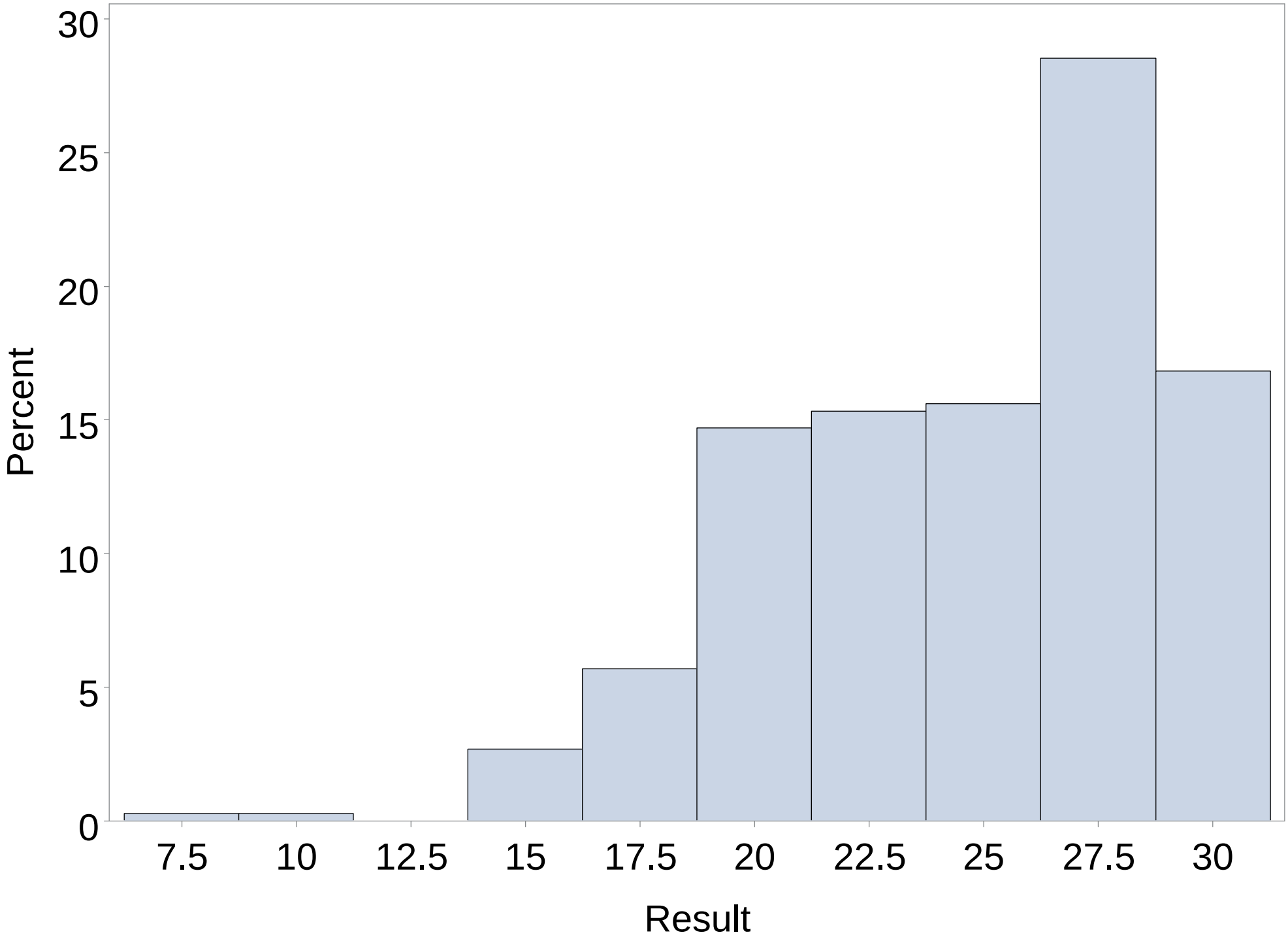
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.35	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.1
99%	30.6
95%	29.7
90%	29.3
75% Q3	28.2
50% Median	25.4
25% Q1	21.5
10%	19.0
5%	17.4
1%	15.4
0% Min	6.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
6.8	110965	30.4	111103
10.8	111098	30.6	111070
15.0	110933	30.7	110962
15.4	111109	31.0	110926
15.4	111016	31.1	110890


Parameter=Bottom Temperature (deg C) STATION=12
Percent
30
25
20
15
10
5
0
7.5
10
12.5
15
17.5
20
22.5
25
27.5
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	24.6919162	**Sum Observations**	8247.1
Std Deviation	4.06432815	**Variance**	16.5187633
Skewness	-0.5864013	**Kurtosis**	-0.5095297
Uncorrected SS	209137.45	**Corrected SS**	5500.74817
Coeff Variation	16.4601569	**Std Error Mean**	0.22239014

Basic Statistical Measures			
Location		**Variability**	
Mean	24.69192	**Std Deviation**	4.06433
Median	25.55000	**Variance**	16.51876
Mode	27.60000	**Range**	20.70000
		Interquartile Range	6.60000

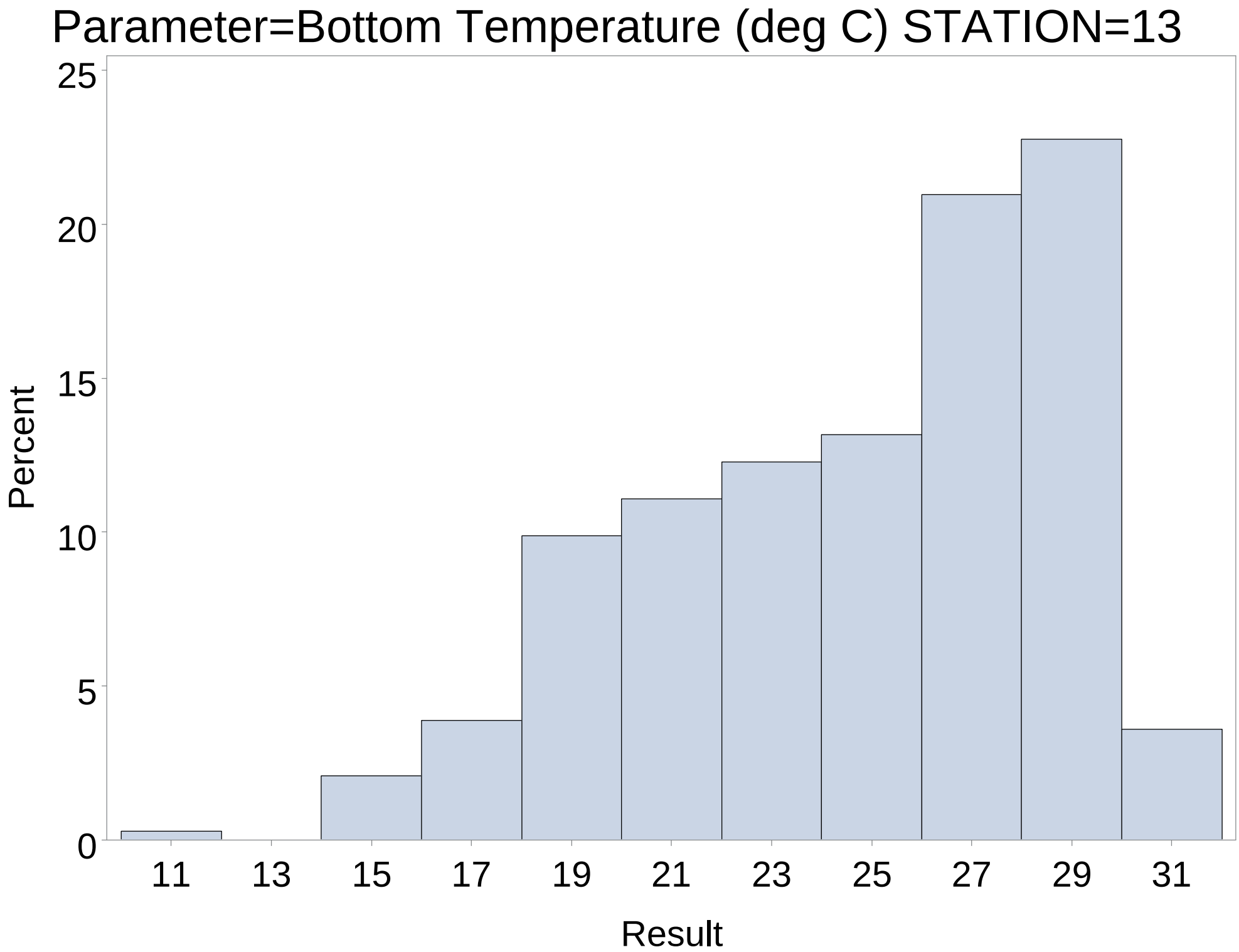
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	111.0297	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.20
99%	30.40
95%	29.70
90%	29.40
75% Q3	28.20
50% Median	25.55
25% Q1	21.60
10%	19.00
5%	17.10
1%	15.40
0% Min	10.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.5	111432	30.4	111403
15.1	111325	30.4	111487
15.4	111349	30.9	111259
15.4	111266	31.0	111295
15.6	111421	31.2	111223


Parameter=Bottom Temperature (deg C) STATION=13
Percent
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	24.8453453	**Sum Observations**	8273.5
Std Deviation	4.13373037	**Variance**	17.0877268
Skewness	-0.6204501	**Kurtosis**	-0.4216408
Uncorrected SS	211231.09	**Corrected SS**	5673.12529
Coeff Variation	16.6378463	**Std Error Mean**	0.22652703

Basic Statistical Measures			
Location		**Variability**	
Mean	24.84535	**Std Deviation**	4.13373
Median	25.60000	**Variance**	17.08773
Mode	28.30000	**Range**	19.70000
		Interquartile Range	6.50000

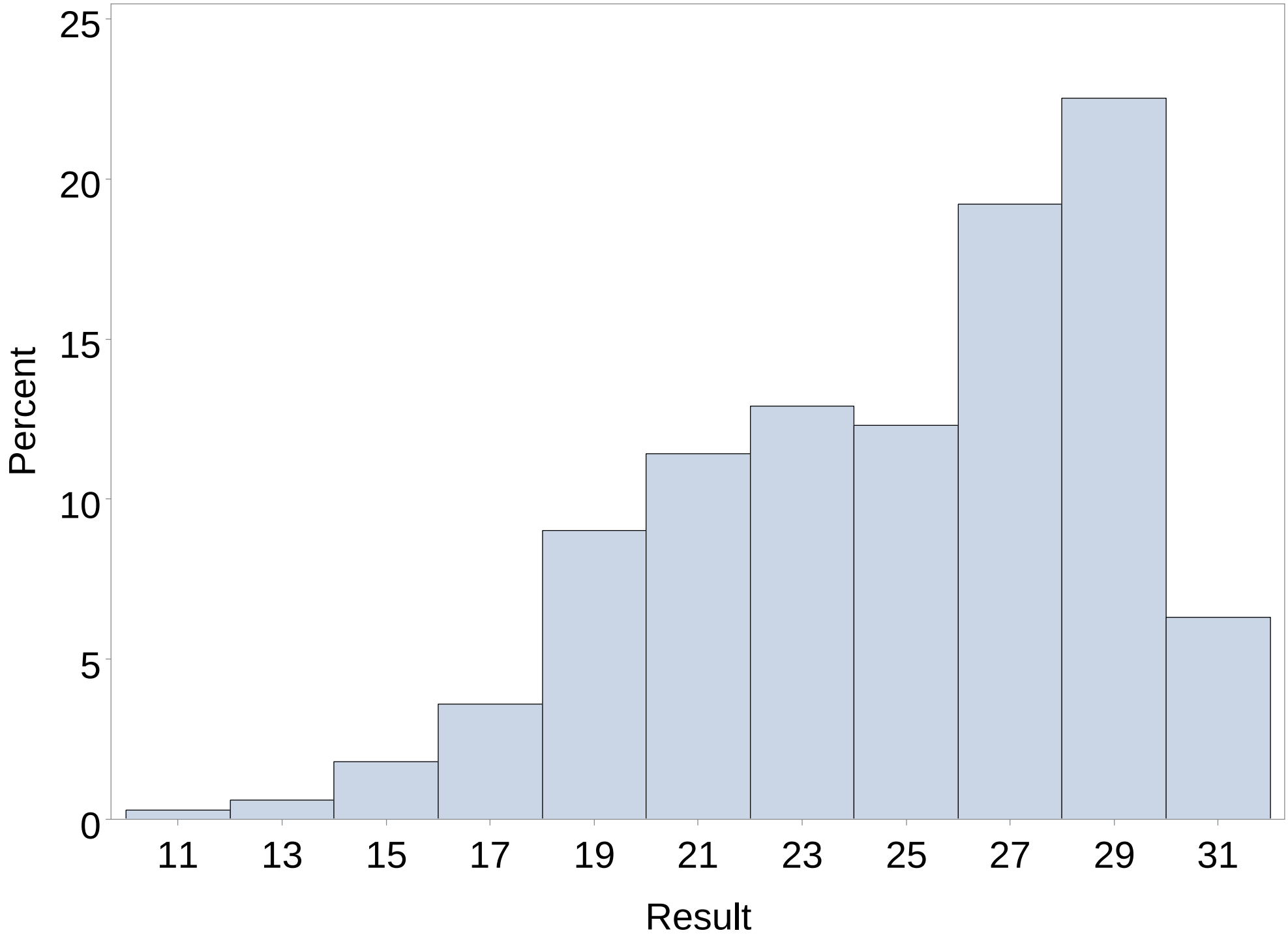
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.6794	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.3
99%	30.8
95%	30.1
90%	29.6
75% Q3	28.3
50% Median	25.6
25% Q1	21.8
10%	19.1
5%	17.4
1%	14.7
0% Min	11.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.6	111765	30.5	111856
12.9	111776	30.8	111820
13.9	111659	30.9	111593
14.7	111671	31.2	111629
14.9	111789	31.3	111557


Parameter=Bottom Temperature (deg C) STATION=14
Percent
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=15

Moments			
N	332	**Sum Weights**	332
Mean	24.9725904	**Sum Observations**	8290.9
Std Deviation	4.18526424	**Variance**	17.5164368
Skewness	-0.6458945	**Kurtosis**	-0.3193101
Uncorrected SS	212843.19	**Corrected SS**	5797.94057
Coeff Variation	16.7594318	**Std Error Mean**	0.22969622

Basic Statistical Measures			
Location		**Variability**	
Mean	24.97259	**Std Deviation**	4.18526
Median	25.85000	**Variance**	17.51644
Mode	28.40000	**Range**	20.20000
		Interquartile Range	6.50000

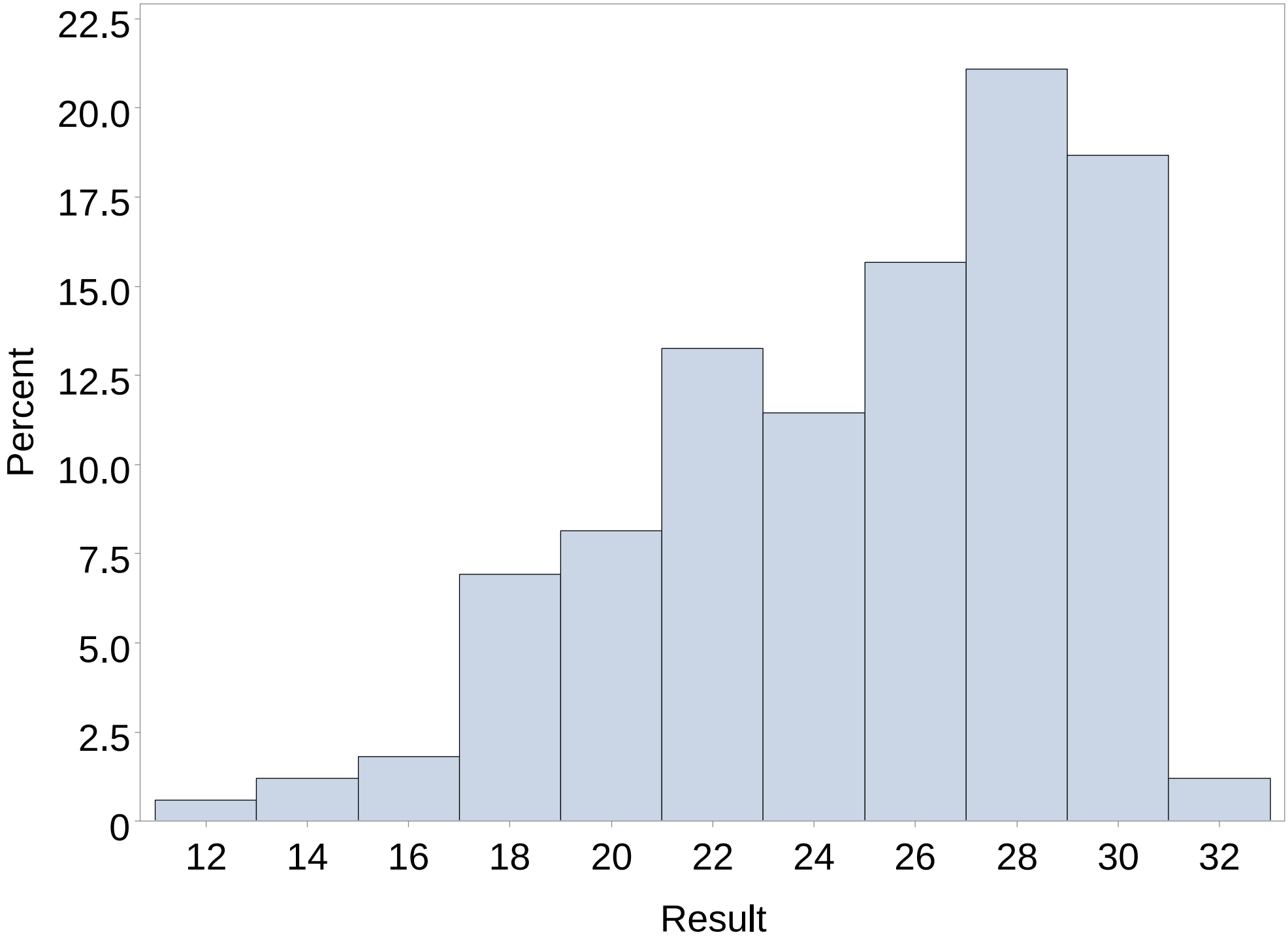
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.7201	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.60
99%	31.10
95%	30.30
90%	29.80
75% Q3	28.40
50% Median	25.85
25% Q1	21.90
10%	18.80
5%	17.70
1%	13.90
0% Min	11.40

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.4	112097	30.9	112188
12.7	111992	31.1	111963
13.8	112108	31.3	111926
13.9	112121	31.4	111962
14.0	112003	31.6	111890


Parameter=Bottom Temperature (deg C) STATION=15
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=16

Moments			
N	333	**Sum Weights**	333
Mean	25.1366366	**Sum Observations**	8370.5
Std Deviation	4.30132126	**Variance**	18.5013646
Skewness	-0.674817	**Kurtosis**	-0.2438196
Uncorrected SS	216548.67	**Corrected SS**	6142.45303
Coeff Variation	17.1117613	**Std Error Mean**	0.23571095

Basic Statistical Measures			
Location		**Variability**	
Mean	25.13664	**Std Deviation**	4.30132
Median	26.00000	**Variance**	18.50136
Mode	27.50000	**Range**	20.10000
		Interquartile Range	6.60000

Note: The mode displayed is the smallest of 2 modes with a count of 9.

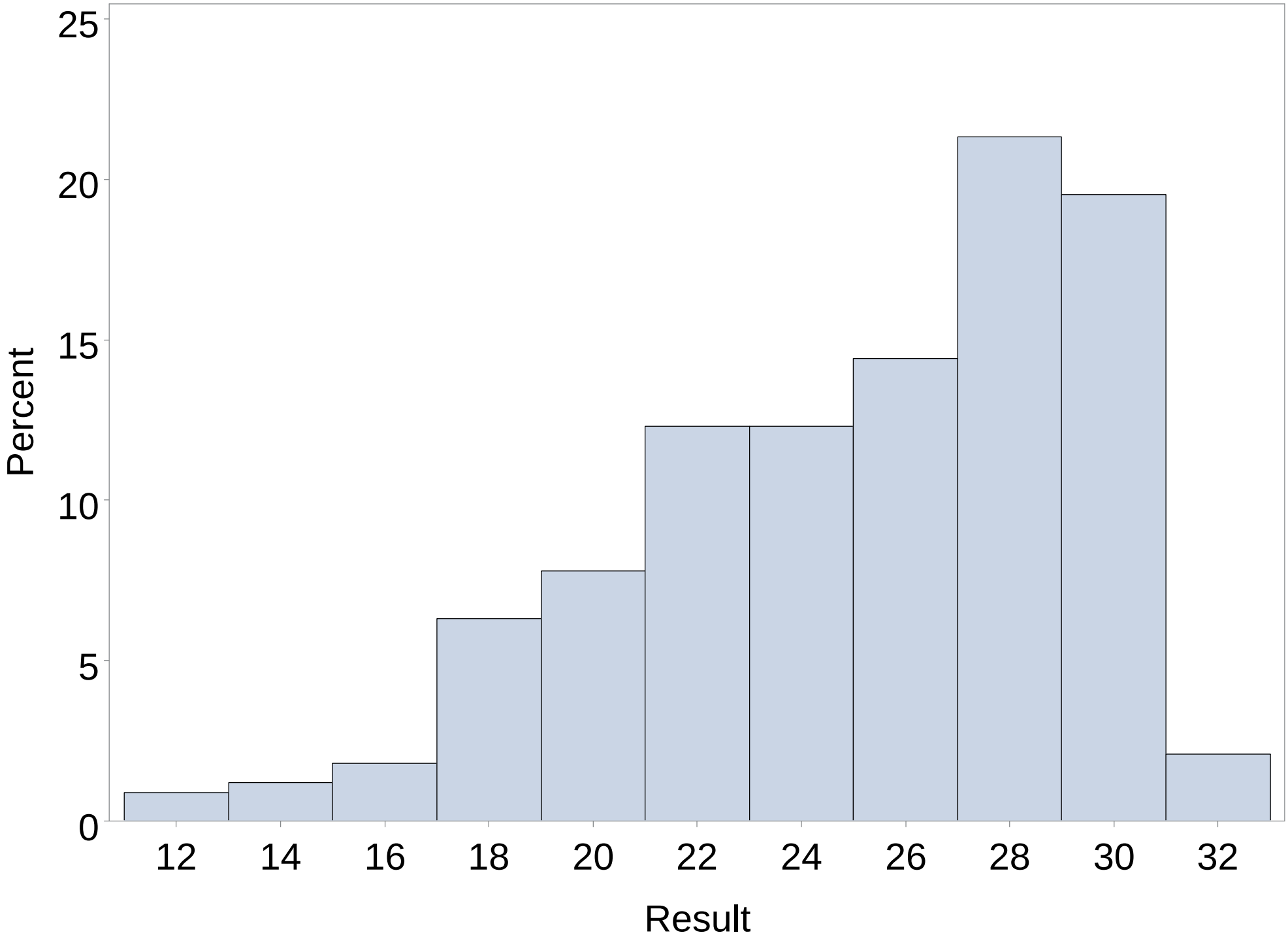
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	106.6418	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.2
99%	31.3
95%	30.5
90%	30.0
75% Q3	28.7
50% Median	26.0
25% Q1	22.1
10%	18.9
5%	17.5
1%	13.9
0% Min	12.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.1	112324	31.2	112306
12.2	112430	31.3	112245
12.3	112441	31.8	112258
13.9	112454	31.9	112294
13.9	112336	32.2	112222


Parameter=Bottom Temperature (deg C) STATION=16
Percent
25
20
15
10
5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=17

Moments			
N	333	**Sum Weights**	333
Mean	25.1804805	**Sum Observations**	8385.1
Std Deviation	4.38795007	**Variance**	19.2541058
Skewness	-0.6569142	**Kurtosis**	-0.2707535
Uncorrected SS	217533.21	**Corrected SS**	6392.36312
Coeff Variation	17.4259982	**Std Error Mean**	0.24045818

Basic Statistical Measures			
Location		**Variability**	
Mean	25.18048	**Std Deviation**	4.38795
Median	26.00000	**Variance**	19.25411
Mode	29.30000	**Range**	20.30000
		Interquartile Range	6.70000

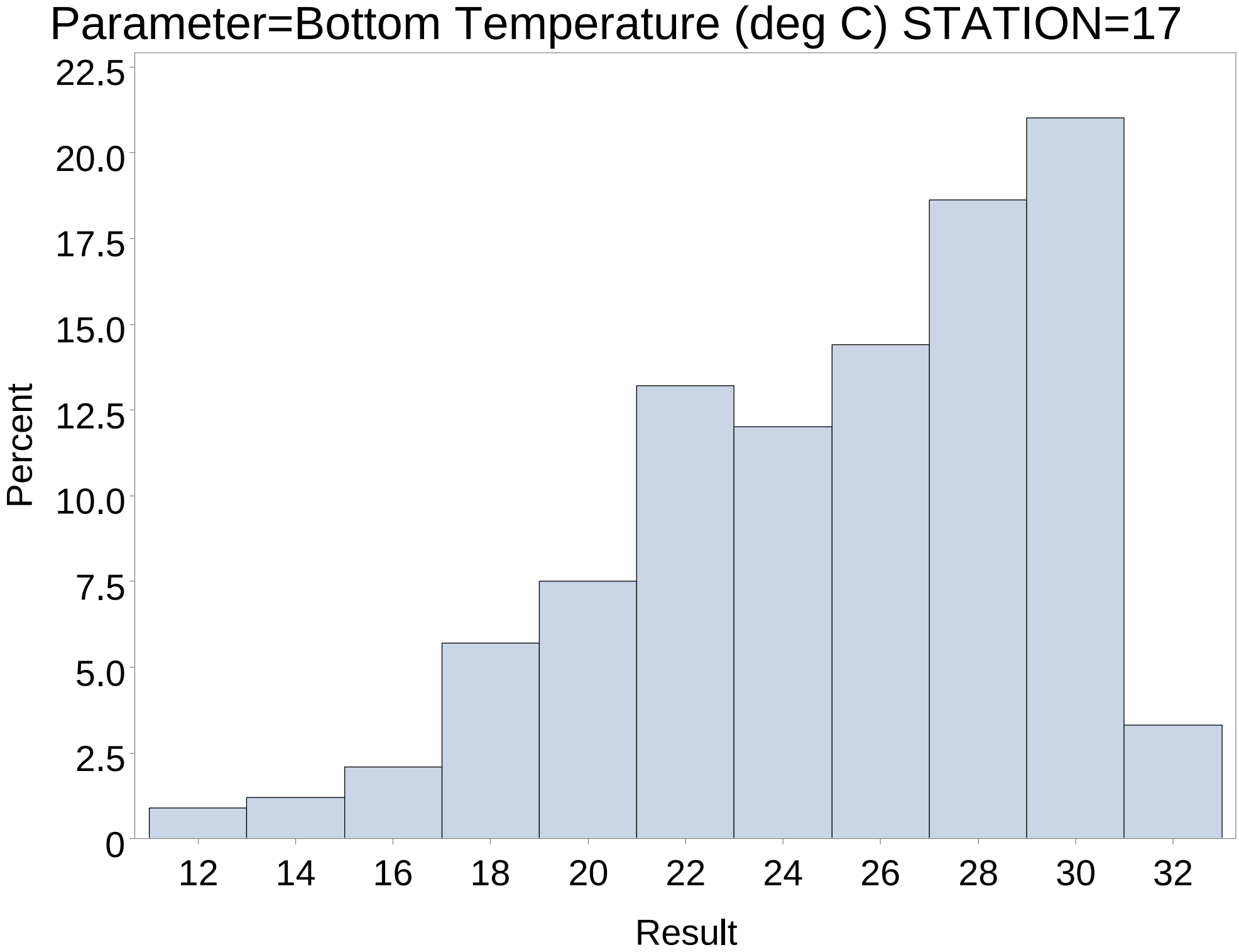
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	104.7188	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.1
99%	31.8
95%	30.6
90%	30.1
75% Q3	28.9
50% Median	26.0
25% Q1	22.2
10%	19.0
5%	17.2
1%	13.6
0% Min	11.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.8	112657	31.7	112734
12.1	112774	31.8	112854
12.6	112763	31.9	112555
13.6	112669	32.0	112627
14.2	112752	32.1	112591


Parameter=Bottom Temperature (deg C) STATION=17
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=18

Moments			
N	330	**Sum Weights**	330
Mean	25.0833333	**Sum Observations**	8277.5
Std Deviation	4.33005273	**Variance**	18.7493566
Skewness	-0.6325956	**Kurtosis**	-0.2973776
Uncorrected SS	213795.83	**Corrected SS**	6168.53833
Coeff Variation	17.2626687	**Std Error Mean**	0.23836156

Basic Statistical Measures			
Location		**Variability**	
Mean	25.08333	**Std Deviation**	4.33005
Median	25.90000	**Variance**	18.74936
Mode	27.20000	**Range**	21.80000
		Interquartile Range	6.60000

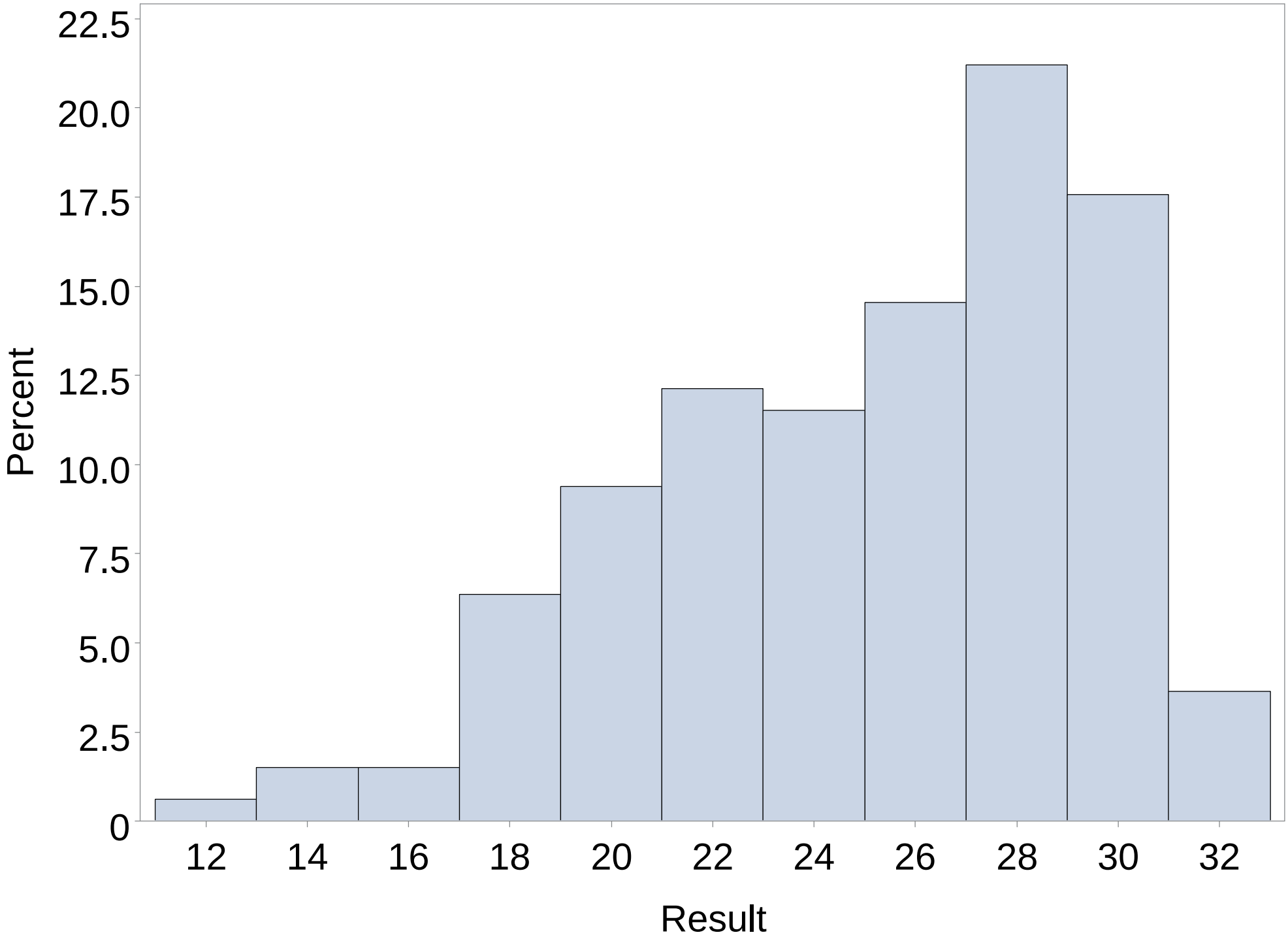
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	105.2323	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.80
99%	31.60
95%	30.60
90%	30.00
75% Q3	28.60
50% Median	25.90
25% Q1	22.00
10%	18.95
5%	17.30
1%	14.30
0% Min	11.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.0	113094	31.5	112948
12.7	112988	31.6	113148
13.6	113105	31.8	113171
14.3	113000	32.0	112923
14.5	113118	32.8	112959


Parameter=Bottom Temperature (deg C) STATION=18
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=19

Moments			
N	333	**Sum Weights**	333
Mean	24.8513514	**Sum Observations**	8275.5
Std Deviation	8.10325531	**Variance**	65.6627467
Skewness	-10.878024	**Kurtosis**	164.557977
Uncorrected SS	227457.39	**Corrected SS**	21800.0319
Coeff Variation	32.6069001	**Std Error Mean**	0.44405566

Basic Statistical Measures			
Location		**Variability**	
Mean	24.85135	**Std Deviation**	8.10326
Median	26.00000	**Variance**	65.66275
Mode	21.60000	**Range**	131.30000
		Interquartile Range	6.80000

Note: The mode displayed is the smallest of 5 modes with a count of 6.

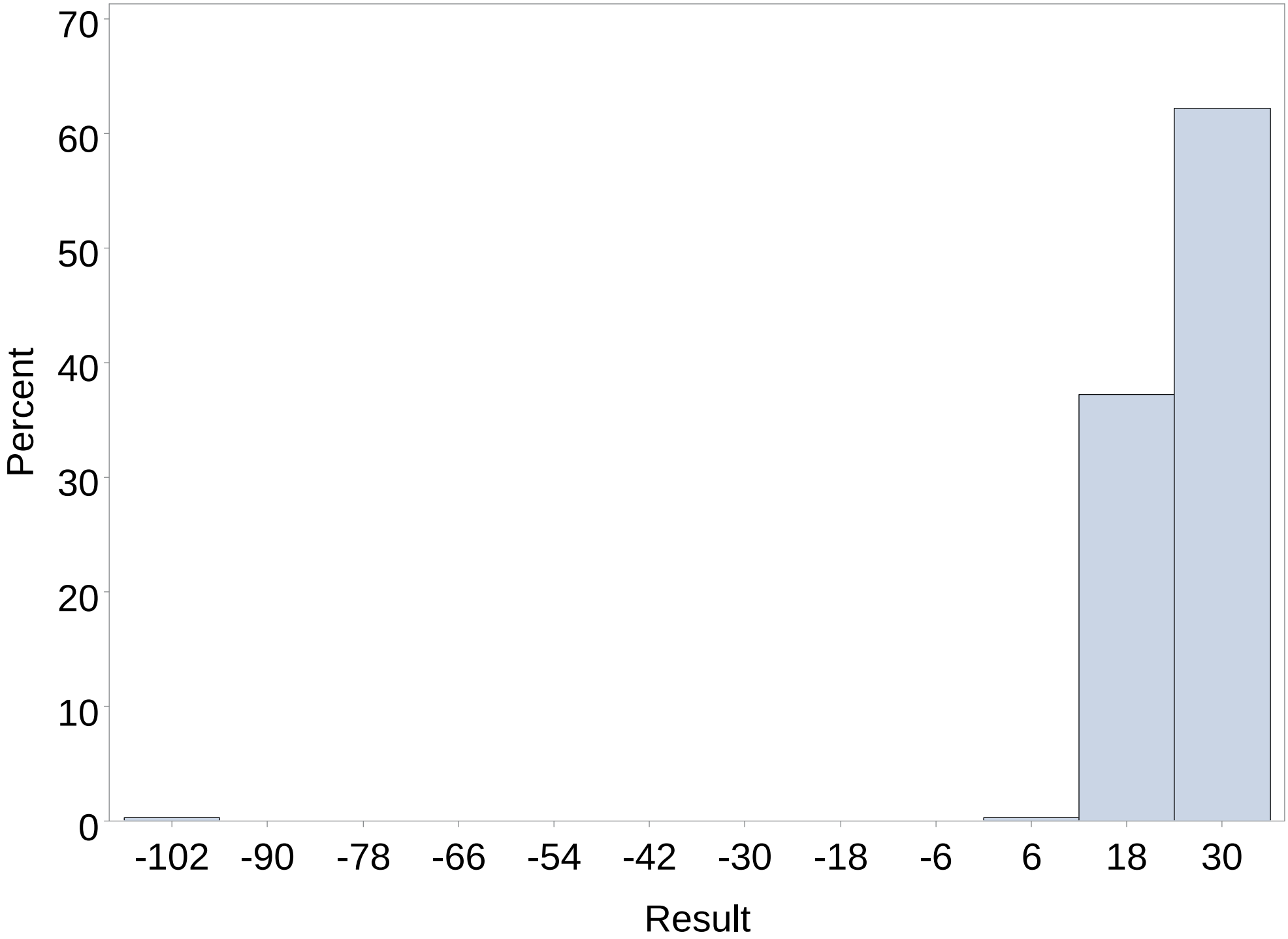
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	55.9645	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27472.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.3
99%	31.7
95%	30.8
90%	30.3
75% Q3	28.9
50% Median	26.0
25% Q1	22.1
10%	19.0
5%	17.6
1%	12.5
0% Min	-99.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-99.0	113390	31.6	113397
11.9	113320	31.7	113290
12.4	113437	31.8	113242
12.5	113426	32.0	113218
14.0	113332	32.3	113254


Parameter=Bottom Temperature (deg C) STATION=19
Percent
70
60
50
40
30
20
10
0
-102
-90
-78
-66
-54
-42
-30
-18
-6
6
18
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	26.1	**Sum Observations**	26.1
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	681.21	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	26.10000	**Std Deviation**	.
Median	26.10000	**Variance**	.
Mode	26.10000	**Range**	0
		Interquartile Range	0

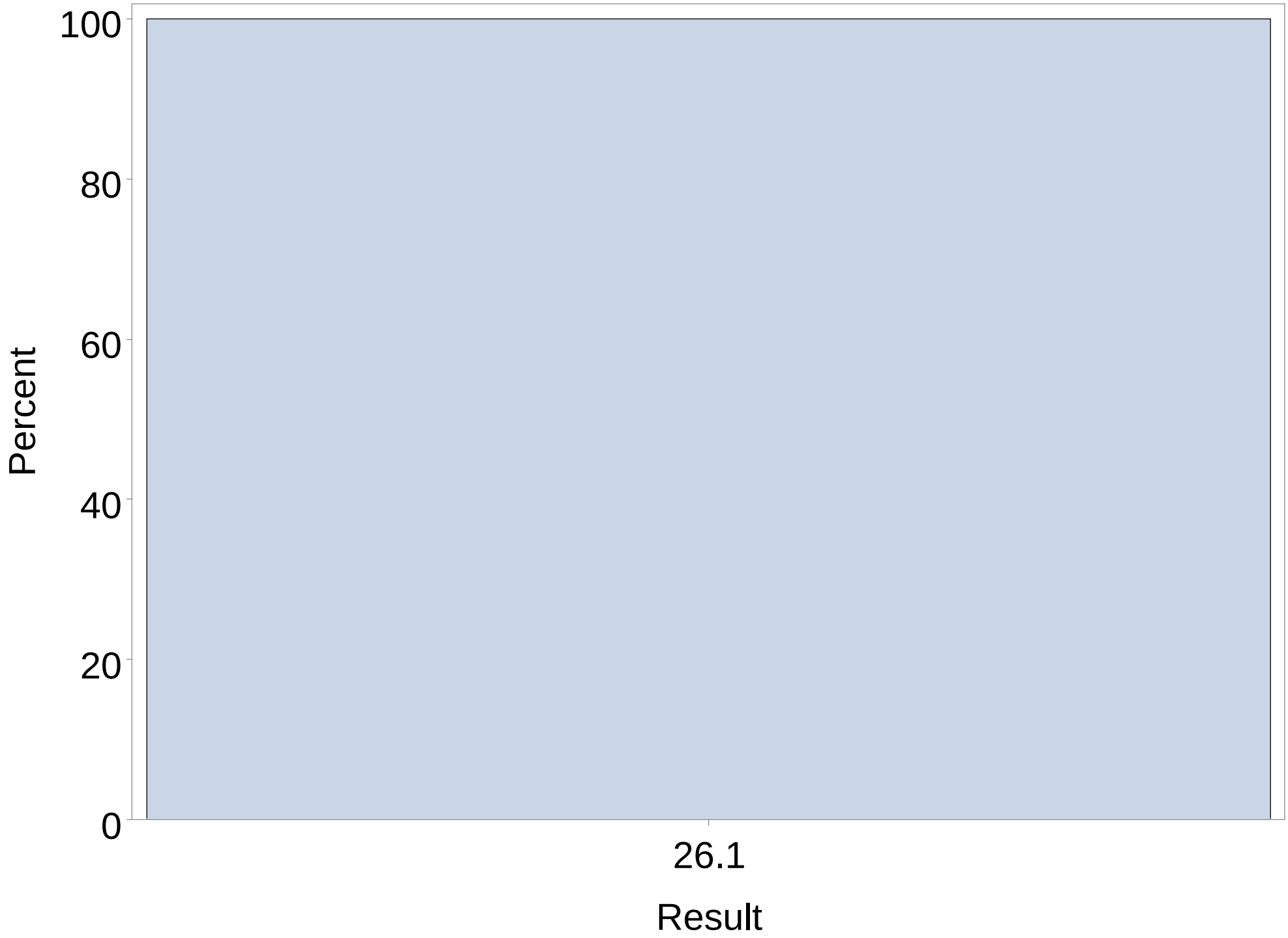
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.1
99%	26.1
95%	26.1
90%	26.1
75% Q3	26.1
50% Median	26.1
25% Q1	26.1
10%	26.1
5%	26.1
1%	26.1
0% Min	26.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Bottom Temperature (deg C) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
26.1	113534	26.1	113534


Parameter=Bottom Temperature (deg C) STATION=22
100
80
60
40
20
0
Percent
26.1
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=1

Moments			
N	334	**Sum Weights**	334
Mean	24.0742515	**Sum Observations**	8040.8
Std Deviation	4.42491532	**Variance**	19.5798756
Skewness	-0.5771813	**Kurtosis**	-0.4496618
Uncorrected SS	200096.34	**Corrected SS**	6520.09856
Coeff Variation	18.380282	**Std Error Mean**	0.24212059

Basic Statistical Measures			
Location		**Variability**	
Mean	24.07425	**Std Deviation**	4.42492
Median	24.80000	**Variance**	19.57988
Mode	27.30000	**Range**	22.50000
		Interquartile Range	6.90000

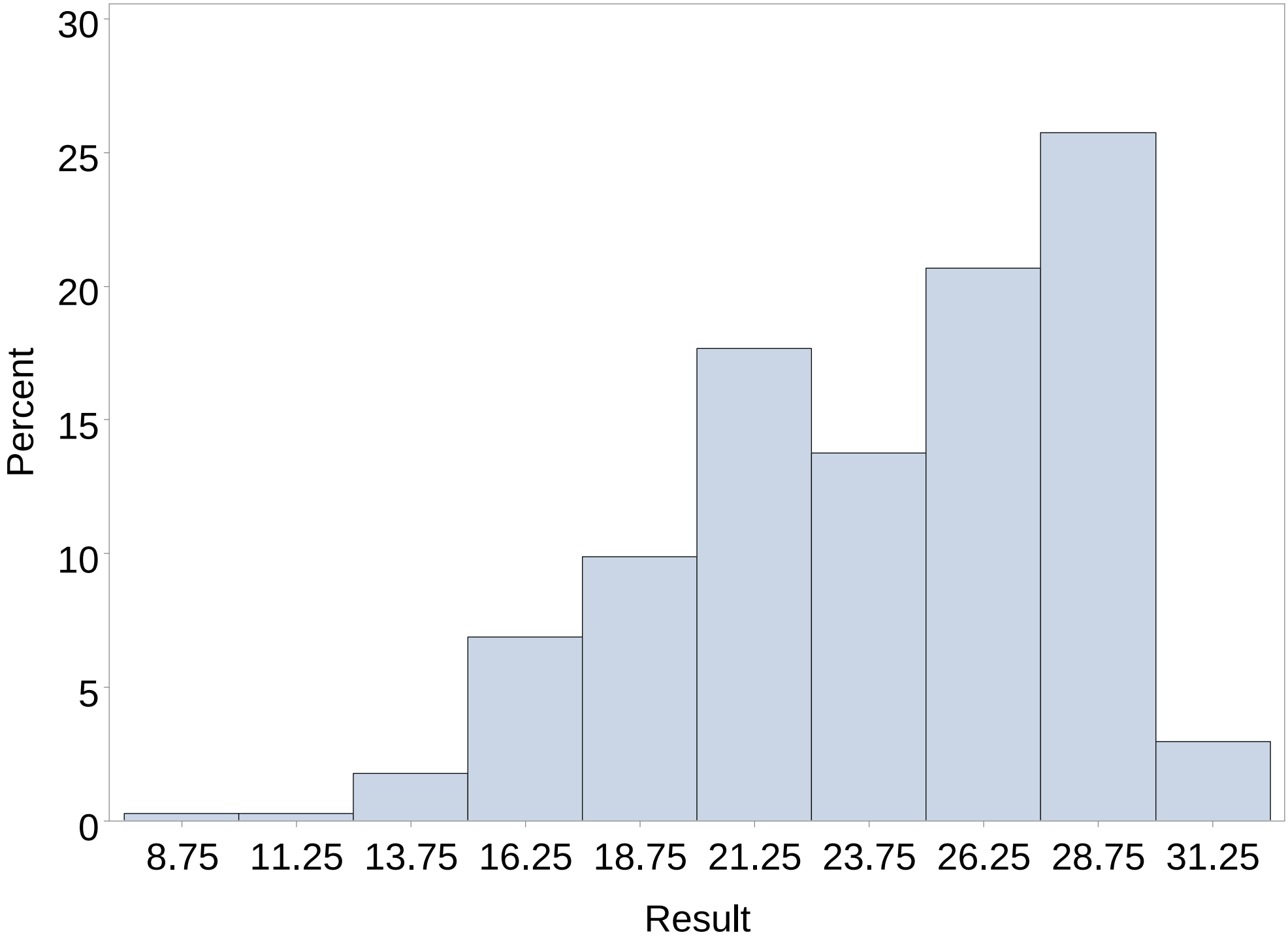
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	99.43083	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.5
99%	30.7
95%	29.7
90%	29.2
75% Q3	27.8
50% Median	24.8
25% Q1	20.9
10%	17.9
5%	16.1
1%	13.8
0% Min	9.0

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.0	113761	30.5	113732
11.0	113654	30.7	113852
12.7	113772	30.8	113588
13.8	113595	30.8	113624
14.0	113785	31.5	113565


Parameter=Surface Temperature (deg C) STATION=1
Percent
30
25
20
15
10
5
0
8.75
11.25
13.75
16.25
18.75
21.25
23.75
26.25
28.75
31.25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=2

Moments			
N	332	**Sum Weights**	332
Mean	24.1638554	**Sum Observations**	8022.4
Std Deviation	4.13919671	**Variance**	17.1329494
Skewness	-0.6279358	**Kurtosis**	-0.2930378
Uncorrected SS	199523.12	**Corrected SS**	5671.00627
Coeff Variation	17.1297032	**Std Error Mean**	0.22716793

Basic Statistical Measures			
Location		**Variability**	
Mean	24.16386	**Std Deviation**	4.13920
Median	25.25000	**Variance**	17.13295
Mode	21.40000	**Range**	22.30000
		Interquartile Range	6.65000

Note: The mode displayed is the smallest of 5 modes with a count of 7.

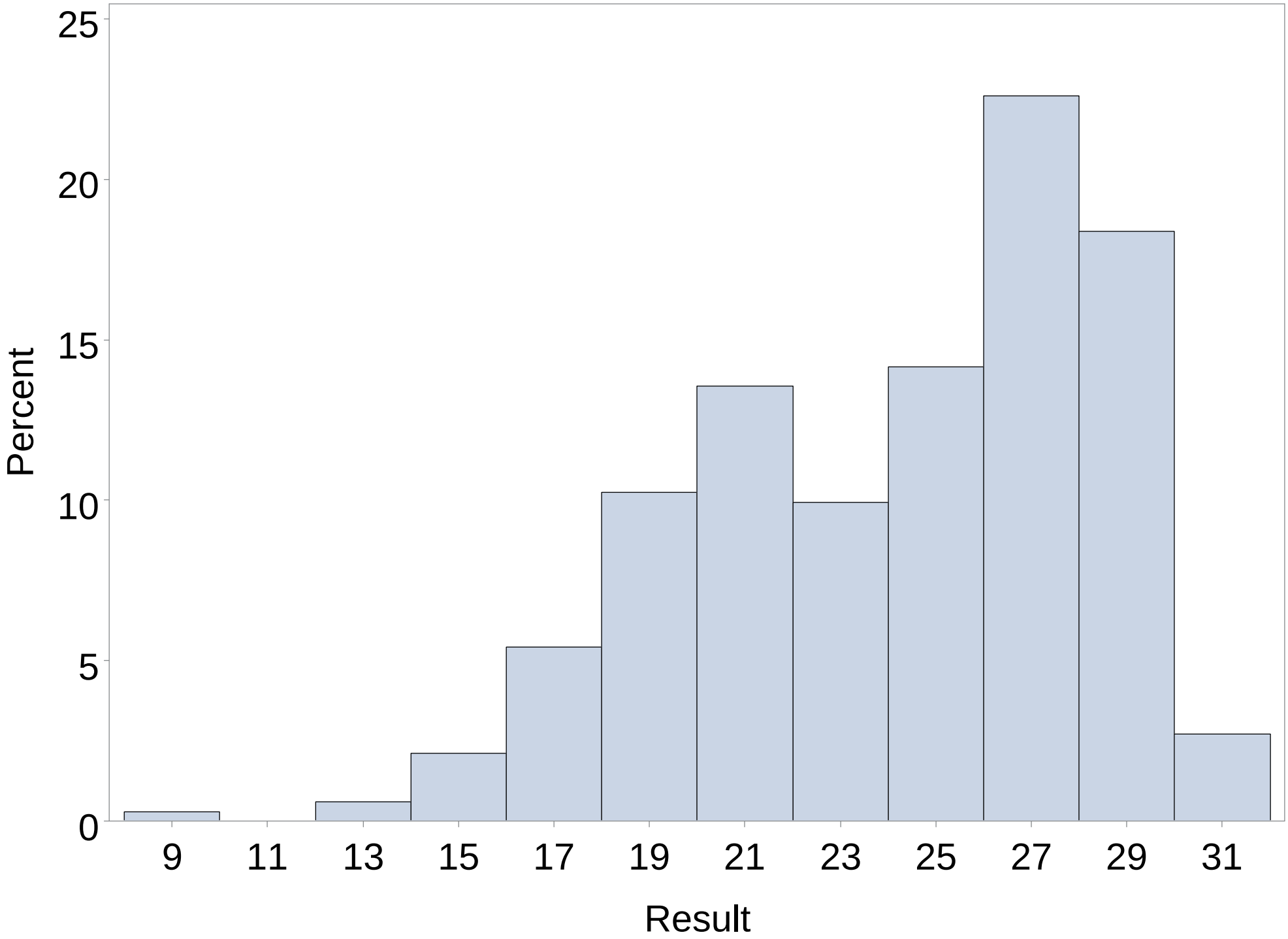
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	106.37	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.90
99%	30.40
95%	29.20
90%	28.80
75% Q3	27.60
50% Median	25.25
25% Q1	20.95
10%	18.50
5%	16.90
1%	14.10
0% Min	8.60

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.6	114093	30.3	113922
12.6	113986	30.4	113886
12.9	114104	30.4	113897
14.1	114010	30.7	113899
14.7	113998	30.9	113898


Parameter=Surface Temperature (deg C) STATION=2
Percent
25
20
15
10
5
0
9
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=3

Moments			
N	328	**Sum Weights**	328
Mean	24.4405488	**Sum Observations**	8016.5
Std Deviation	4.57925474	**Variance**	20.969574
Skewness	-0.9688774	**Kurtosis**	1.66421063
Uncorrected SS	202784.71	**Corrected SS**	6857.0507
Coeff Variation	18.7363008	**Std Error Mean**	0.25284704

Basic Statistical Measures			
Location		**Variability**	
Mean	24.44055	**Std Deviation**	4.57925
Median	25.50000	**Variance**	20.96957
Mode	28.40000	**Range**	32.60000
		Interquartile Range	6.80000

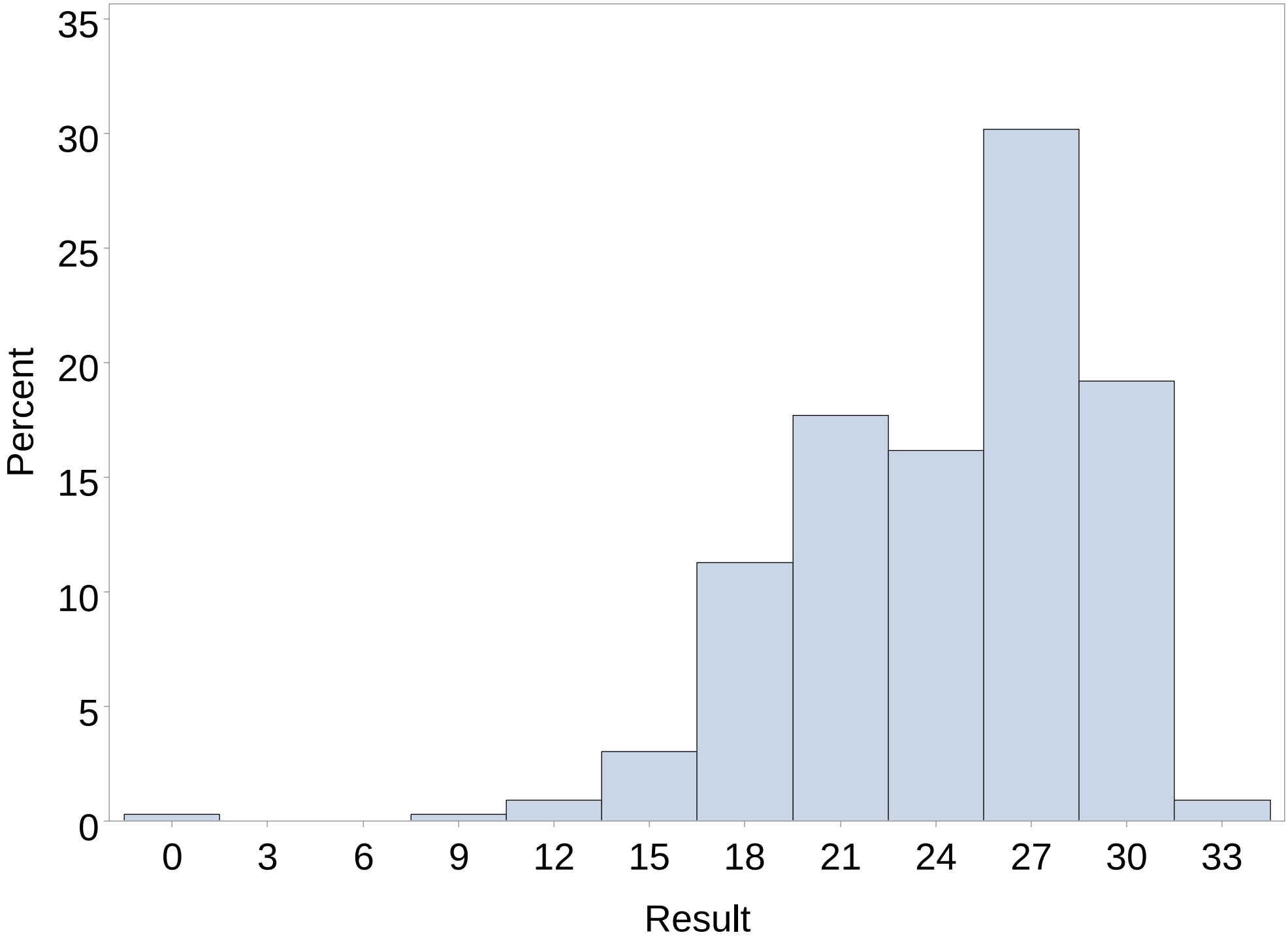
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	96.6614	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.0
99%	31.2
95%	29.9
90%	29.4
75% Q3	28.1
50% Median	25.5
25% Q1	21.3
10%	18.2
5%	17.0
1%	12.1
0% Min	0.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	114521	30.7	114230
9.8	114424	31.2	114515
11.0	114435	31.7	114524
12.1	114319	32.2	114254
13.3	114448	33.0	114218


Parameter=Surface Temperature (deg C) STATION=3
Percent
35
30
25
20
15
10
5
0
0
3
6
9
12
15
18
21
24
27
30
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=4

Moments			
N	333	**Sum Weights**	333
Mean	25.0555556	**Sum Observations**	8343.5
Std Deviation	4.36980405	**Variance**	19.0951874
Skewness	-0.9482593	**Kurtosis**	1.32400026
Uncorrected SS	215390.63	**Corrected SS**	6339.60222
Coeff Variation	17.4404596	**Std Error Mean**	0.23946379

Basic Statistical Measures			
Location		**Variability**	
Mean	25.05556	**Std Deviation**	4.36980
Median	26.20000	**Variance**	19.09519
Mode	28.50000	**Range**	29.10000
		Interquartile Range	6.50000

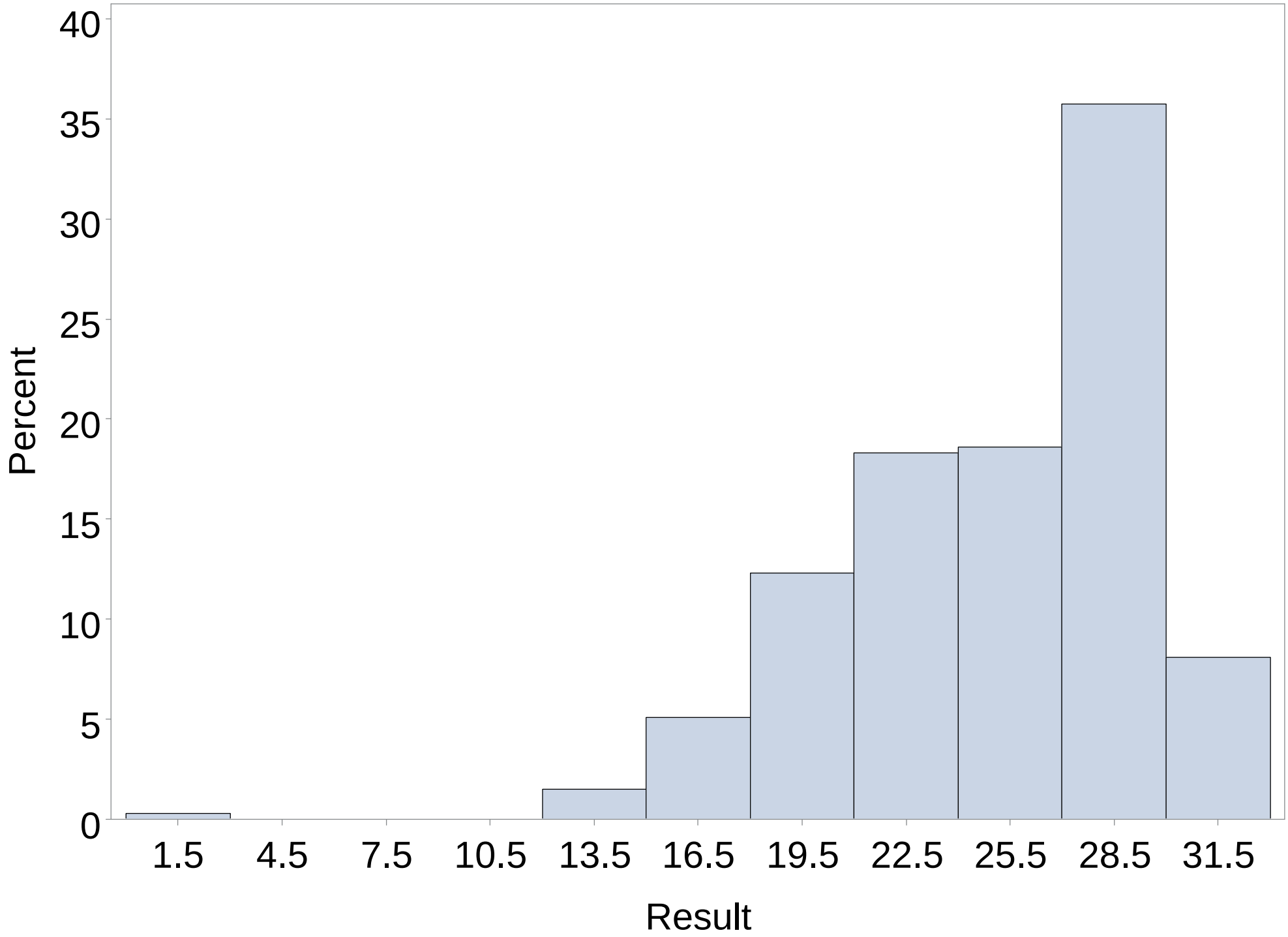
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	104.6319	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.6
99%	31.1
95%	30.4
90%	29.8
75% Q3	28.5
50% Median	26.2
25% Q1	22.0
10%	18.7
5%	17.6
1%	14.1
0% Min	2.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
2.5	114852	31.0	114845
12.2	114754	31.1	114582
12.6	114765	31.4	114808
14.1	114659	31.5	114546
14.7	114778	31.6	114618


Parameter=Surface Temperature (deg C) STATION=4
Percent
40
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=5

Moments			
N	334	**Sum Weights**	334
Mean	25.1431138	**Sum Observations**	8397.8
Std Deviation	4.21791516	**Variance**	17.7908083
Skewness	-0.6312187	**Kurtosis**	-0.4021429
Uncorrected SS	217071.18	**Corrected SS**	5924.33916
Coeff Variation	16.7756277	**Std Error Mean**	0.23079405

Basic Statistical Measures			
Location		**Variability**	
Mean	25.14311	**Std Deviation**	4.21792
Median	26.10000	**Variance**	17.79081
Mode	28.40000	**Range**	19.90000
		Interquartile Range	6.60000

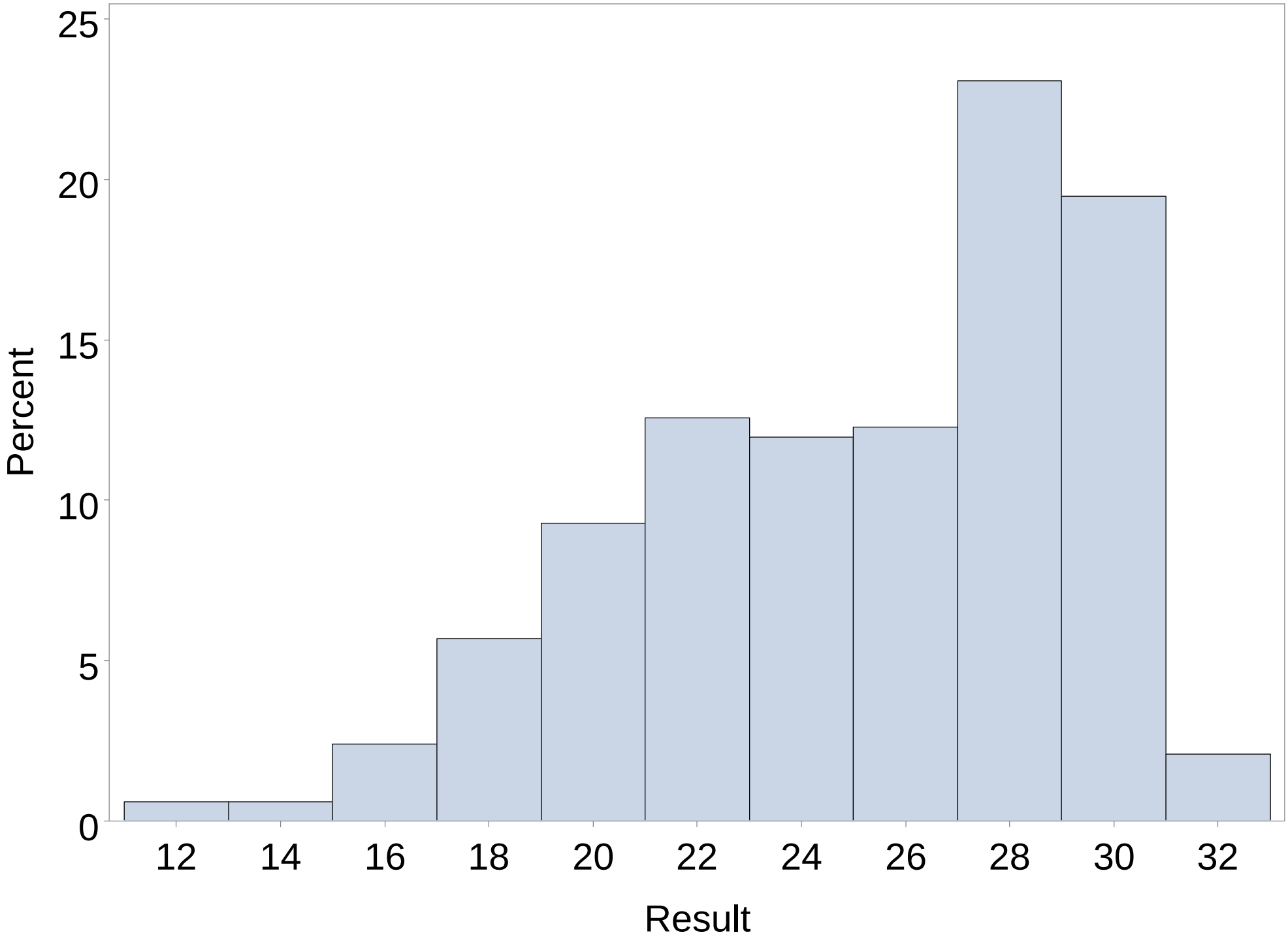
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.9418	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.0
99%	31.0
95%	30.5
90%	29.9
75% Q3	28.6
50% Median	26.1
25% Q1	22.0
10%	19.1
5%	17.8
1%	14.6
0% Min	12.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.1	115088	31.0	114964
12.5	115099	31.0	115023
13.3	114981	31.3	114879
14.6	114993	31.3	115191
15.1	115112	32.0	114952


Parameter=Surface Temperature (deg C) STATION=5
Percent
25
20
15
10
5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	25.5222222	**Sum Observations**	8498.9
Std Deviation	4.23519944	**Variance**	17.9369143
Skewness	-0.6297278	**Kurtosis**	-0.3420553
Uncorrected SS	222865.87	**Corrected SS**	5955.05556
Coeff Variation	16.5941641	**Std Error Mean**	0.2320875

Basic Statistical Measures			
Location		**Variability**	
Mean	25.52222	**Std Deviation**	4.23520
Median	26.50000	**Variance**	17.93691
Mode	29.80000	**Range**	21.30000
		Interquartile Range	6.60000

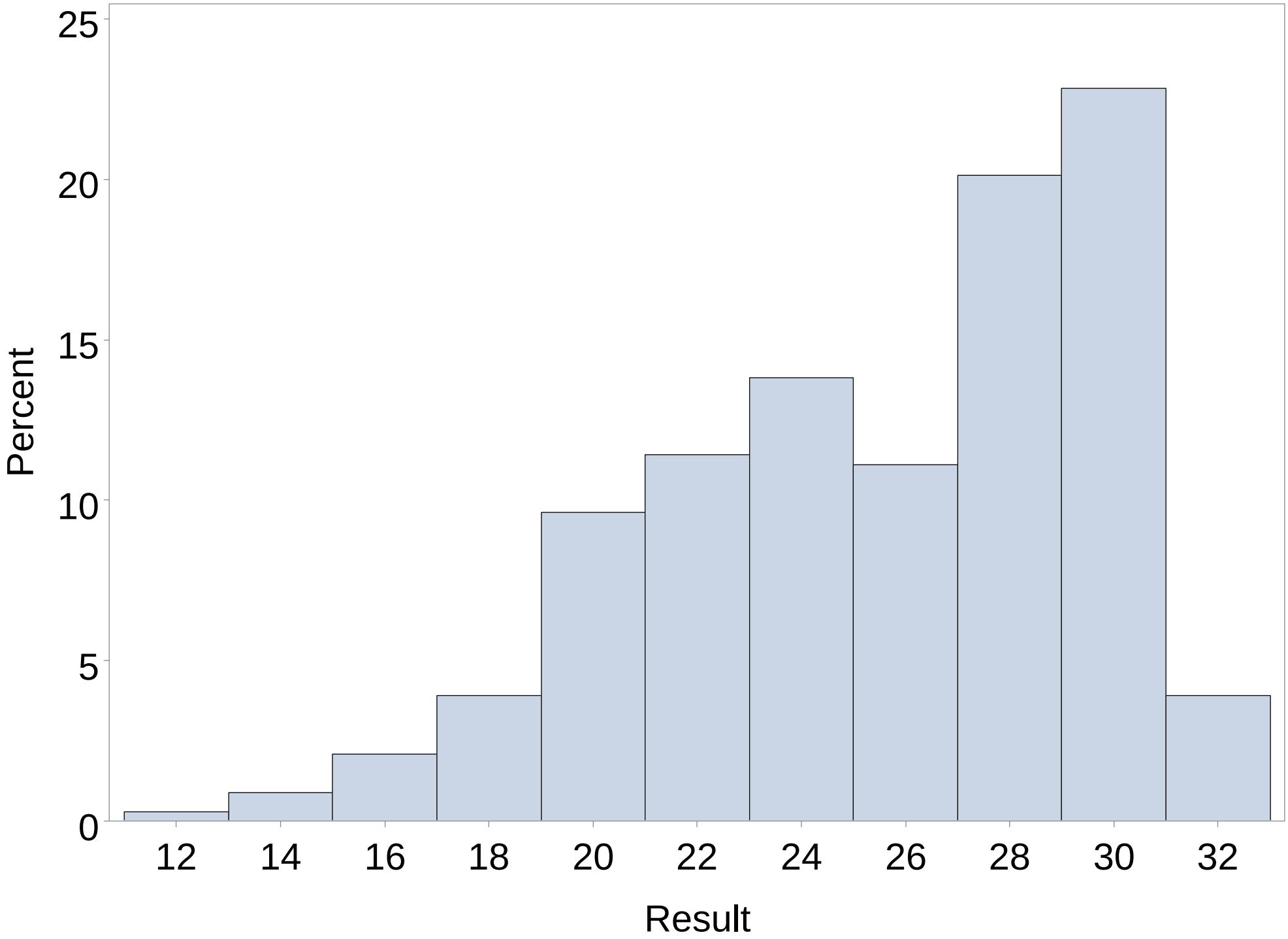
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.9681	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.8
99%	31.9
95%	30.8
90%	30.2
75% Q3	29.1
50% Median	26.5
25% Q1	22.5
10%	19.4
5%	18.0
1%	14.6
0% Min	11.5

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.5	115421	31.9	115297
13.4	115432	31.9	115499
13.4	115315	32.1	115285
14.6	115327	32.3	115512
15.3	115445	32.8	115202


Parameter=Surface Temperature (deg C) STATION=6
25
20
15
10
5
0
Percent
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	25.5414414	**Sum Observations**	8505.3
Std Deviation	4.33284184	**Variance**	18.7735184
Skewness	-0.6405971	**Kurtosis**	-0.3299289
Uncorrected SS	223470.43	**Corrected SS**	6232.80811
Coeff Variation	16.9639676	**Std Error Mean**	0.23743827

Basic Statistical Measures			
Location		**Variability**	
Mean	25.54144	**Std Deviation**	4.33284
Median	26.50000	**Variance**	18.77352
Mode	26.00000	**Range**	21.50000
		Interquartile Range	6.60000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

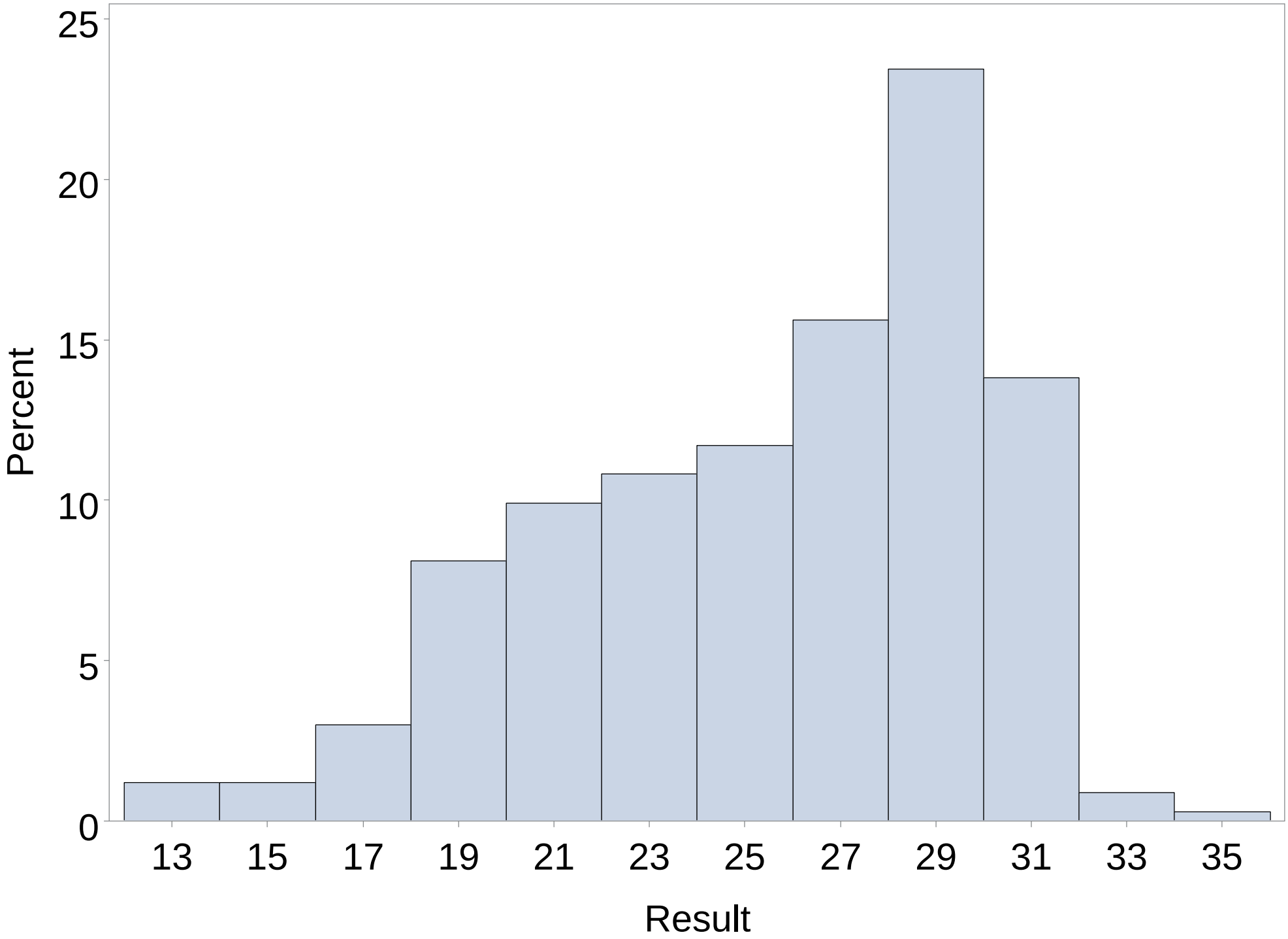
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	107.5709	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	34.3
99%	32.0
95%	30.9
90%	30.5
75% Q3	29.1
50% Median	26.5
25% Q1	22.5
10%	19.4
5%	17.8
1%	13.8
0% Min	12.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.8	115754	31.6	115569
13.0	115648	32.0	115618
13.1	115765	32.1	115582
13.8	115660	32.7	115724
14.4	115743	34.3	115845


Parameter=Surface Temperature (deg C) STATION=7
Percent
25
20
15
10
5
0
13
15
17
19
21
23
25
27
29
31
33
35
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=8

Moments			
N	324	**Sum Weights**	324
Mean	25.5830247	**Sum Observations**	8288.9
Std Deviation	4.43538287	**Variance**	19.6726212
Skewness	-0.5701536	**Kurtosis**	-0.4029599
Uncorrected SS	218409.39	**Corrected SS**	6354.25664
Coeff Variation	17.3372106	**Std Error Mean**	0.24641016

Basic Statistical Measures			
Location		**Variability**	
Mean	25.58302	**Std Deviation**	4.43538
Median	26.25000	**Variance**	19.67262
Mode	29.50000	**Range**	21.00000
		Interquartile Range	6.85000

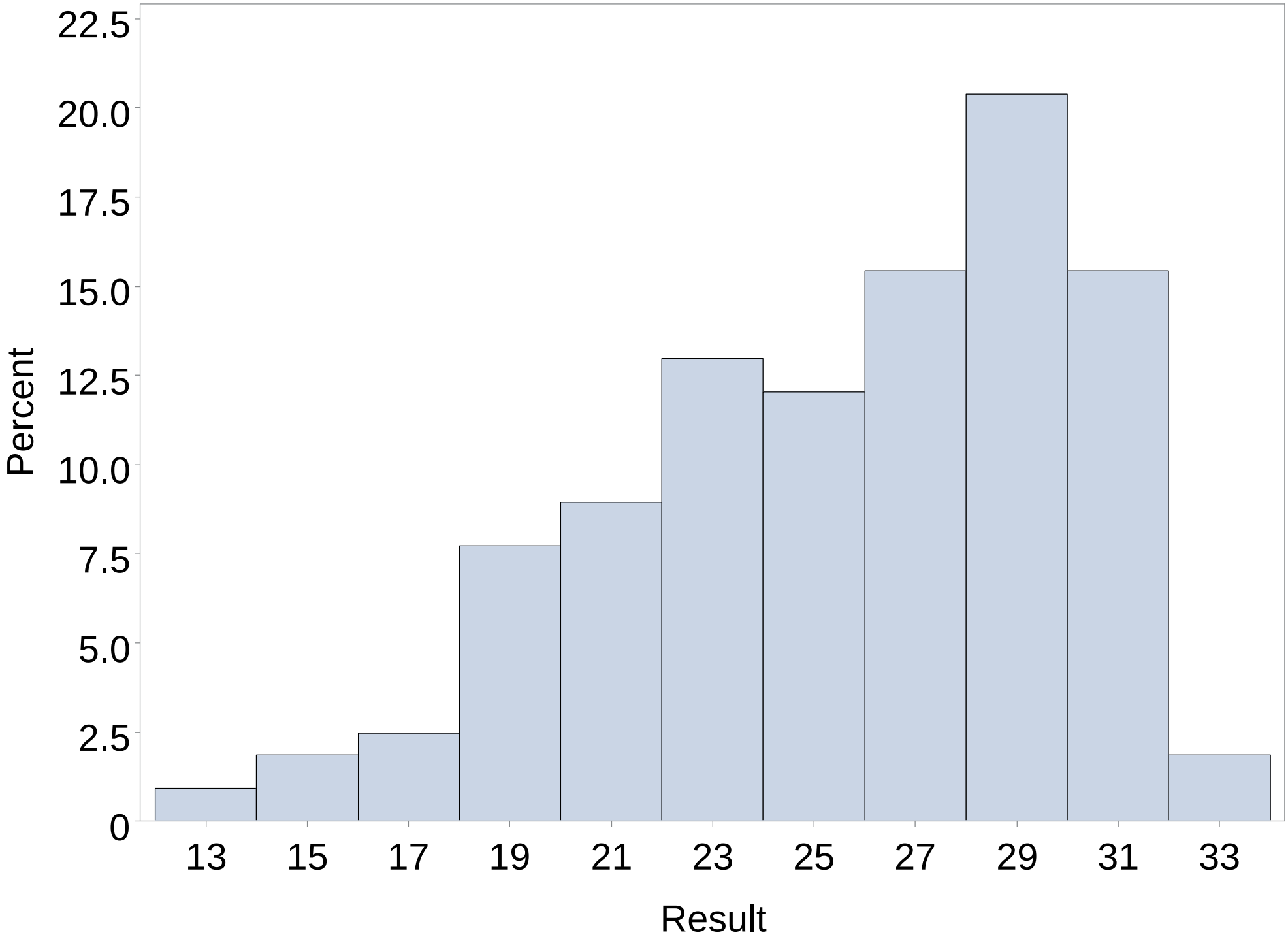
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	103.8229	**Pr > |t|**	<.0001
Sign	**M**	162	**Pr >= |M|**	<.0001
Signed Rank	**S**	26325	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.50
99%	32.40
95%	31.40
90%	30.70
75% Q3	29.40
50% Median	26.25
25% Q1	22.55
10%	19.40
5%	17.80
1%	14.20
0% Min	12.50

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.5	116081	32.3	115995
12.8	115978	32.4	116112
13.3	116092	32.7	115951
14.2	115990	32.9	116159
15.0	116105	33.5	115915


Parameter=Surface Temperature (deg C) STATION=8
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=9

Moments			
N	330	**Sum Weights**	330
Mean	25.7866667	**Sum Observations**	8509.6
Std Deviation	4.48141089	**Variance**	20.0830436
Skewness	-0.5802397	**Kurtosis**	-0.4190602
Uncorrected SS	226041.54	**Corrected SS**	6607.32133
Coeff Variation	17.3787909	**Std Error Mean**	0.24669355

Basic Statistical Measures			
Location		**Variability**	
Mean	25.78667	**Std Deviation**	4.48141
Median	26.65000	**Variance**	20.08304
Mode	23.90000	**Range**	21.20000
		Interquartile Range	6.90000

Note: The mode displayed is the smallest of 2 modes with a count of 7.

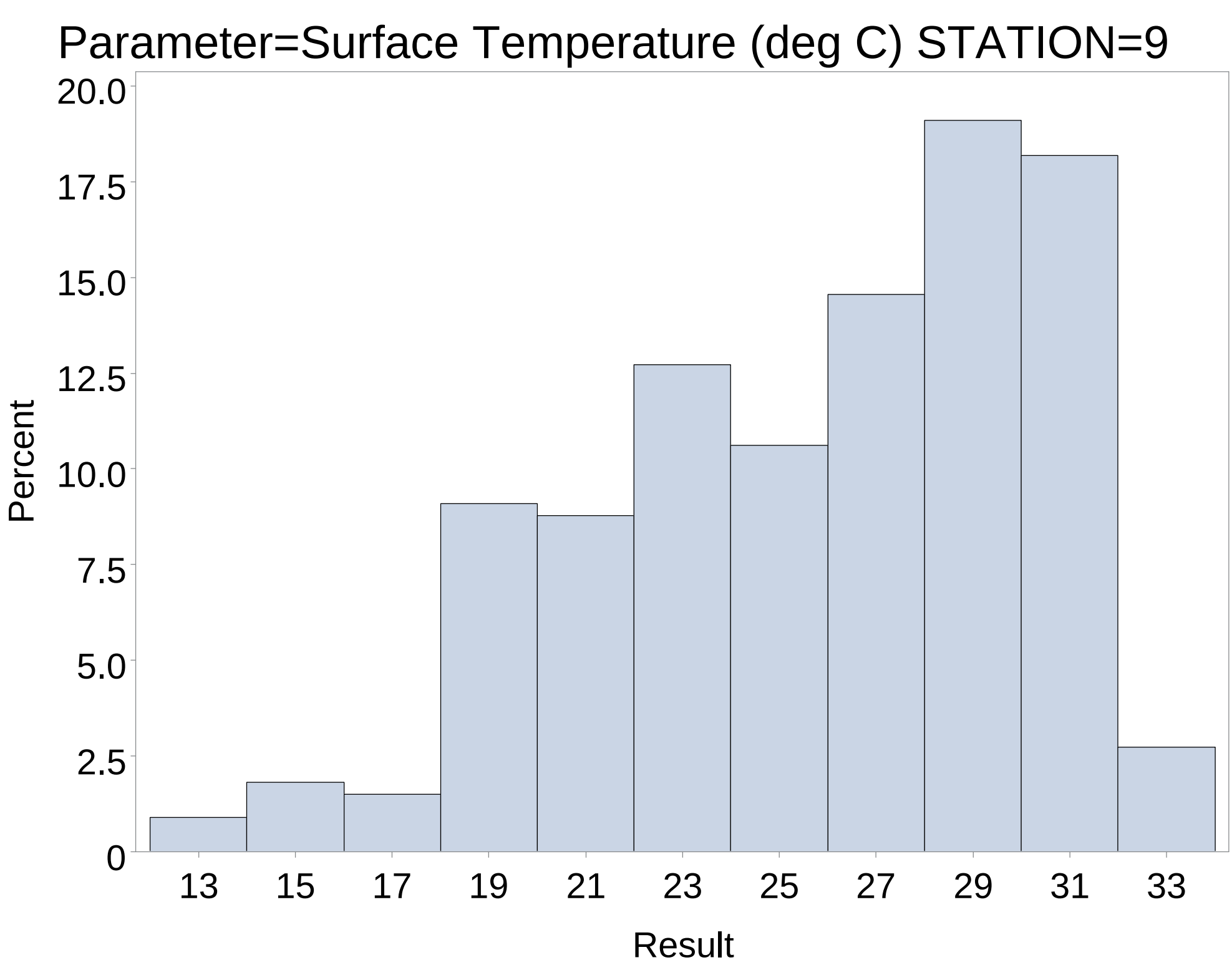
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	104.5291	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.60
99%	32.50
95%	31.60
90%	30.85
75% Q3	29.60
50% Median	26.65
25% Q1	22.70
10%	19.40
5%	18.30
1%	14.00
0% Min	12.40

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.4	116420	32.3	116379
13.4	116303	32.5	116275
13.7	116409	32.7	116487
14.0	116315	33.4	116333
14.4	116398	33.6	116415


Parameter=Surface Temperature (deg C) STATION=9
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=10

Moments			
N	328	**Sum Weights**	328
Mean	24.9704268	**Sum Observations**	8190.3
Std Deviation	4.20288351	**Variance**	17.6642298
Skewness	-0.6839381	**Kurtosis**	-0.3573772
Uncorrected SS	210291.49	**Corrected SS**	5776.20314
Coeff Variation	16.8314444	**Std Error Mean**	0.23206542

Basic Statistical Measures			
Location		**Variability**	
Mean	24.97043	**Std Deviation**	4.20288
Median	26.15000	**Variance**	17.66423
Mode	28.40000	**Range**	20.60000
		Interquartile Range	6.55000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

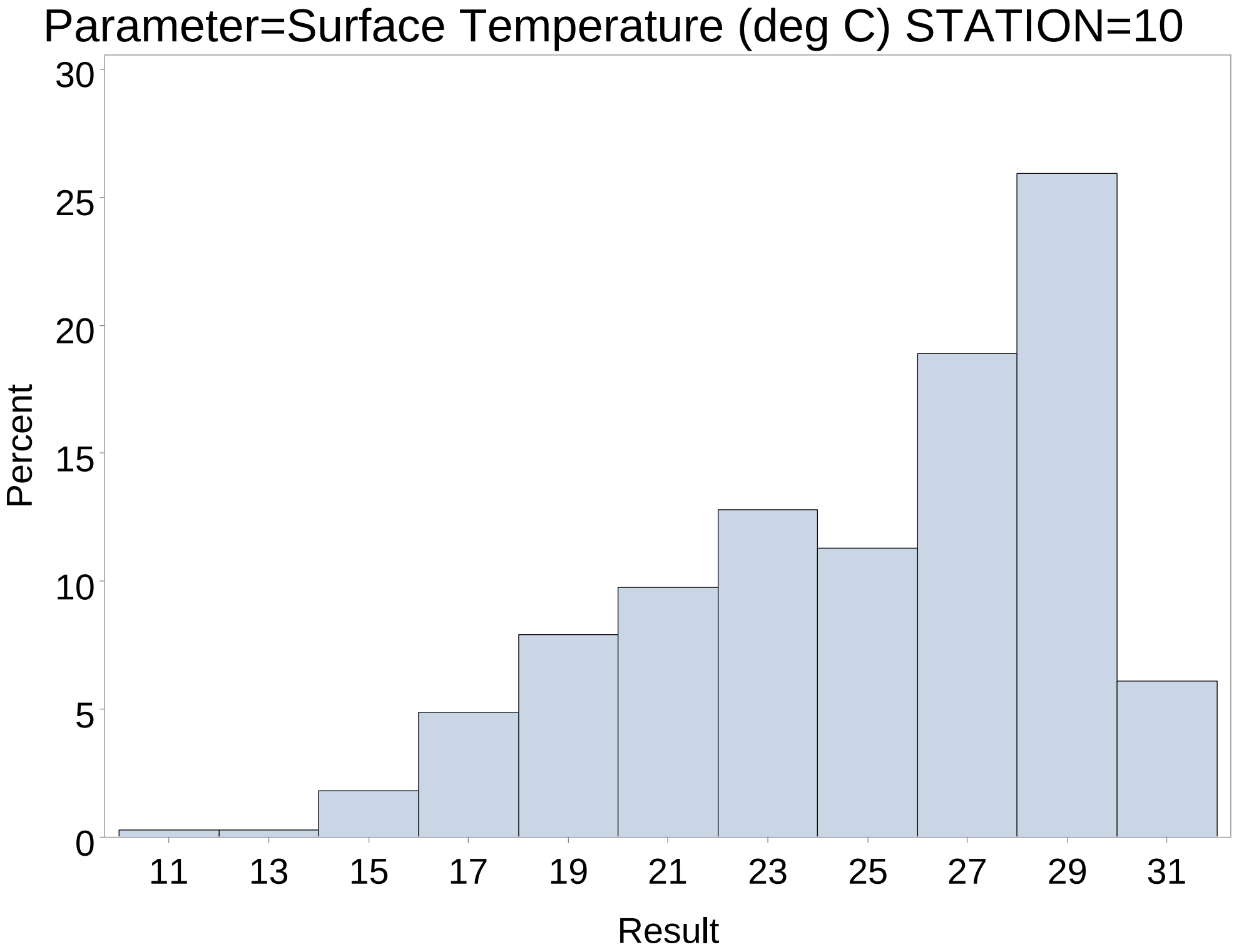
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	107.6008	**Pr > |t|**	<.0001
Sign	**M**	164	**Pr >= |M|**	<.0001
Signed Rank	**S**	26978	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.40
99%	31.00
95%	30.10
90%	29.60
75% Q3	28.50
50% Median	26.15
25% Q1	21.95
10%	18.70
5%	17.30
1%	14.70
0% Min	10.80

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.8	116736	30.8	116814
12.7	116747	31.0	116570
14.1	116648	31.3	116709
14.7	116760	31.4	116534
15.1	116589	31.4	116606


Parameter=Surface Temperature (deg C) STATION=10
Percent
30
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	24.9870482	**Sum Observations**	8295.7
Std Deviation	4.19593182	**Variance**	17.6058438
Skewness	-0.6960599	**Kurtosis**	-0.3365477
Uncorrected SS	213112.59	**Corrected SS**	5827.53431
Coeff Variation	16.792427	**Std Error Mean**	0.23028168

Basic Statistical Measures			
Location		**Variability**	
Mean	24.98705	**Std Deviation**	4.19593
Median	26.15000	**Variance**	17.60584
Mode	20.50000	**Range**	20.30000
		Interquartile Range	6.50000

Note: The mode displayed is the smallest of 2 modes with a count of 8.

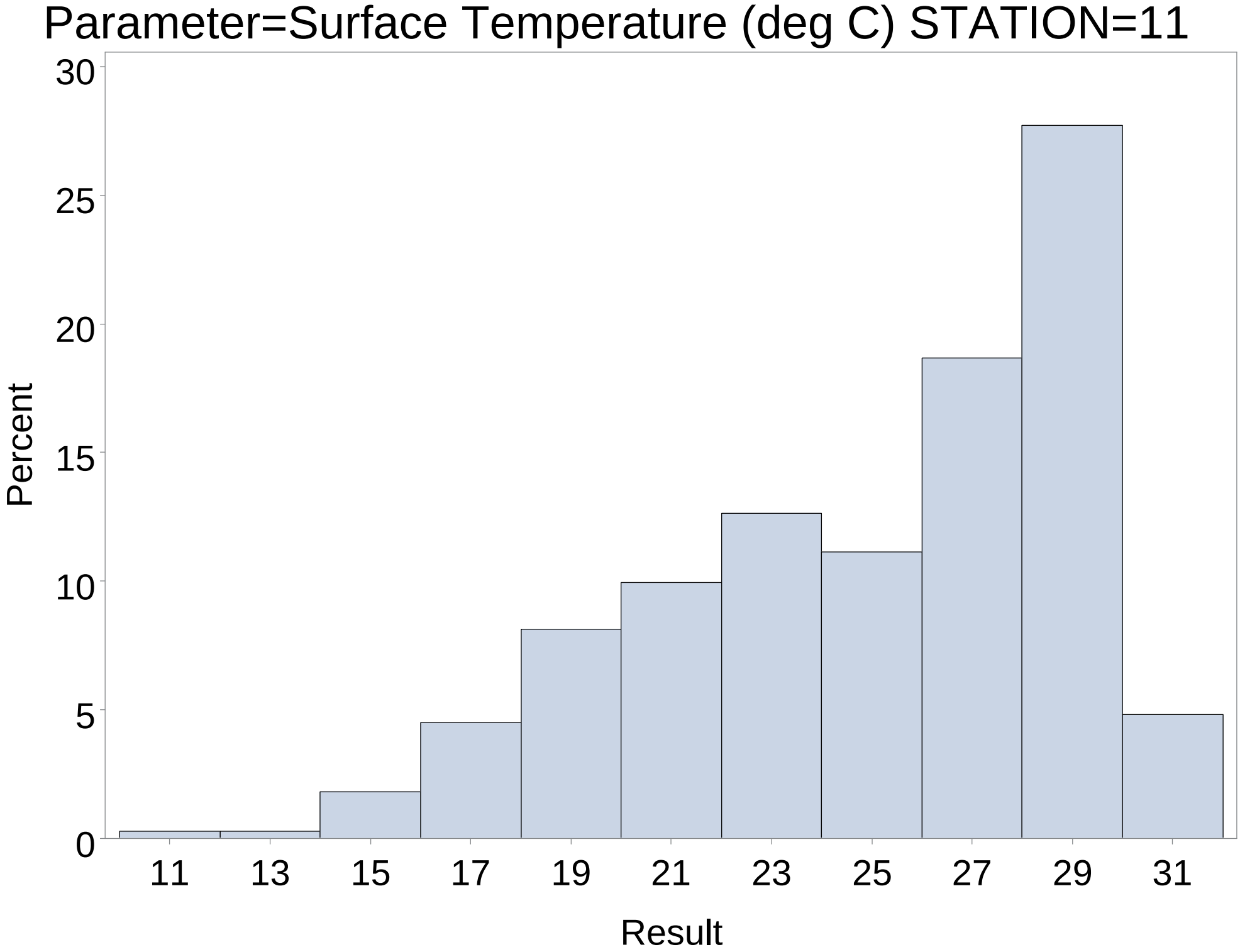
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.5065	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.60
99%	31.20
95%	29.90
90%	29.60
75% Q3	28.45
50% Median	26.15
25% Q1	21.95
10%	18.80
5%	17.30
1%	14.30
0% Min	11.30

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.3	117068	30.9	117159
12.3	117079	31.2	116861
14.2	117092	31.2	117039
14.3	116974	31.3	116897
15.2	116986	31.6	116933


Parameter=Surface Temperature (deg C) STATION=11
Percent
30
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=12

Moments			
N	332	**Sum Weights**	332
Mean	25.1216867	**Sum Observations**	8340.4
Std Deviation	4.24822119	**Variance**	18.0473832
Skewness	-0.6169401	**Kurtosis**	-0.4534489
Uncorrected SS	215498.6	**Corrected SS**	5973.68386
Coeff Variation	16.910573	**Std Error Mean**	0.23315143

Basic Statistical Measures			
Location		**Variability**	
Mean	25.12169	**Std Deviation**	4.24822
Median	26.25000	**Variance**	18.04738
Mode	28.40000	**Range**	20.70000
		Interquartile Range	6.65000

Note: The mode displayed is the smallest of 2 modes with a count of 10.

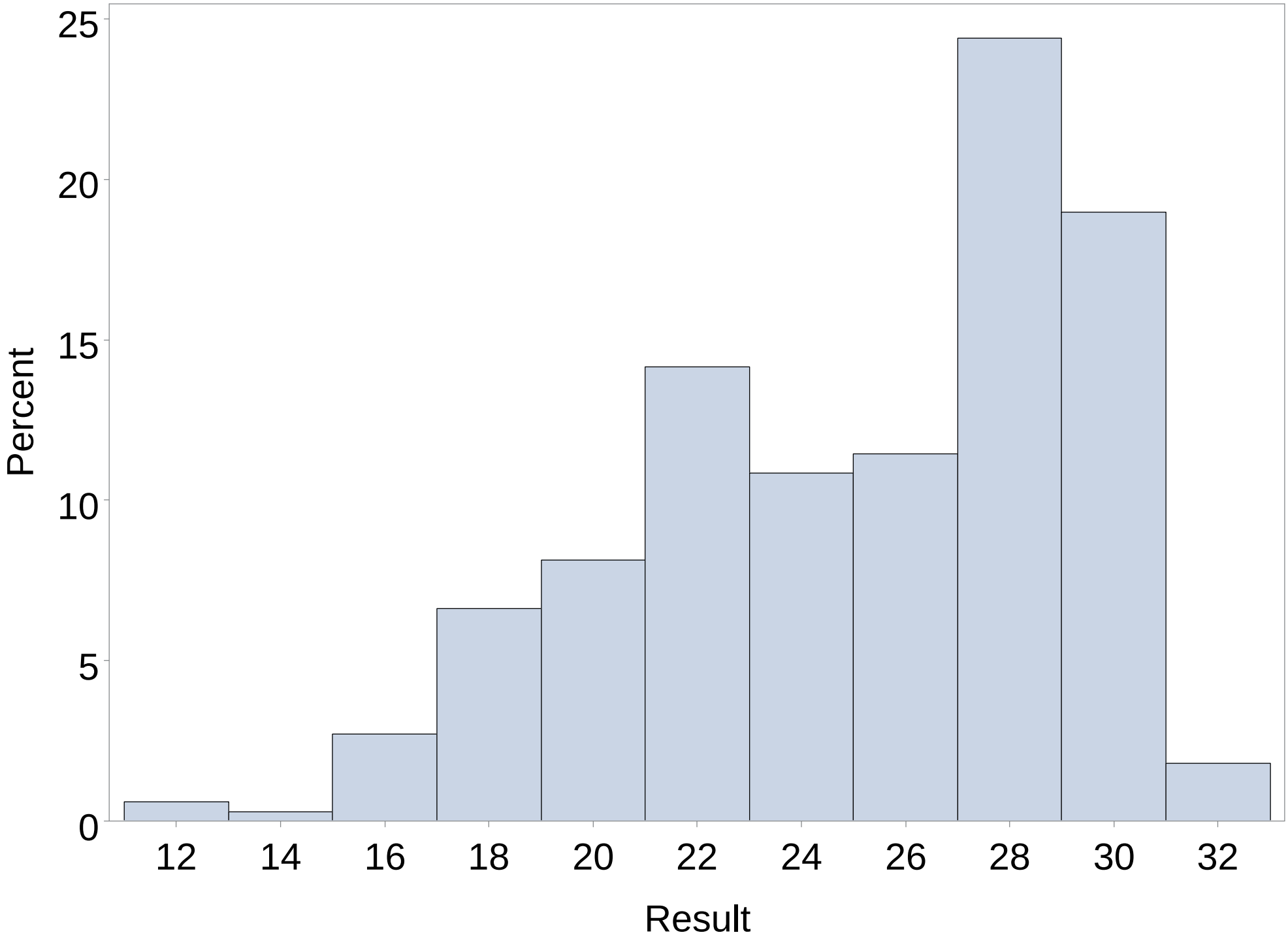
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	107.7484	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.60
99%	31.40
95%	30.40
90%	29.90
75% Q3	28.60
50% Median	26.25
25% Q1	21.95
10%	18.90
5%	17.60
1%	15.00
0% Min	11.90

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.9	117400	31.4	117193
12.6	117411	31.4	117336
14.1	117306	31.5	117491
15.0	117424	31.9	117277
15.0	117389	32.6	117265


Parameter=Surface Temperature (deg C) STATION=12
Percent
25
20
15
10
5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	25.1628743	**Sum Observations**	8404.4
Std Deviation	4.21132452	**Variance**	17.7352542
Skewness	-0.6479869	**Kurtosis**	-0.3692553
Uncorrected SS	217384.7	**Corrected SS**	5905.83964
Coeff Variation	16.7362618	**Std Error Mean**	0.23043343

Basic Statistical Measures			
Location		**Variability**	
Mean	25.16287	**Std Deviation**	4.21132
Median	26.15000	**Variance**	17.73525
Mode	28.30000	**Range**	20.20000
		Interquartile Range	6.30000

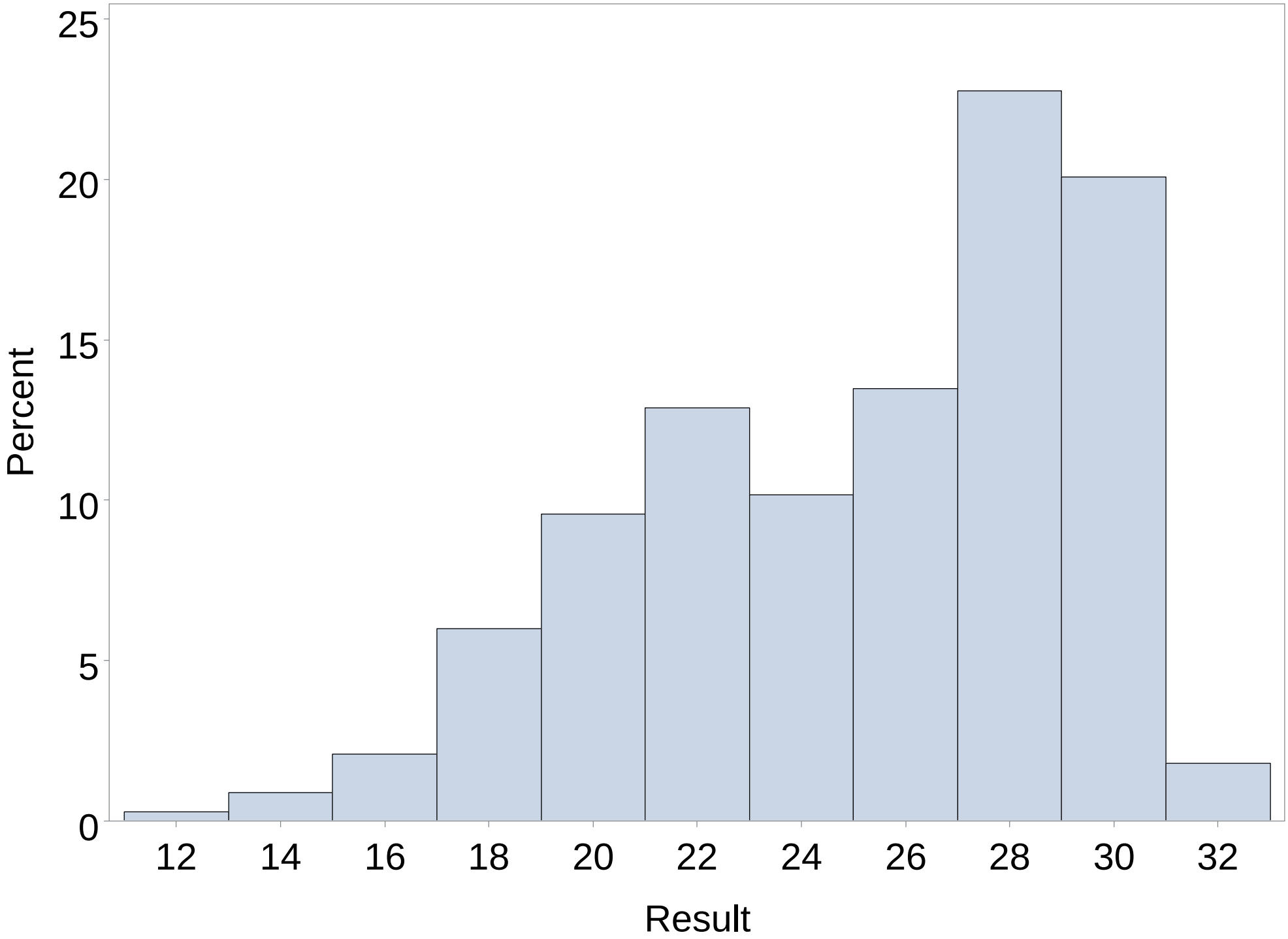
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.198	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.60
99%	31.20
95%	30.50
90%	29.80
75% Q3	28.50
50% Median	26.15
25% Q1	22.20
10%	19.10
5%	17.80
1%	14.30
0% Min	11.40

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.4	117734	31.1	117812
13.2	117745	31.2	117561
13.3	117627	31.4	117597
14.3	117639	31.4	117825
15.0	117758	31.6	117525


Parameter=Surface Temperature (deg C) STATION=13
Percent
25
20
15
10
5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	25.1780781	**Sum Observations**	8384.3
Std Deviation	4.21240636	**Variance**	17.7443674
Skewness	-0.5953152	**Kurtosis**	-0.4184927
Uncorrected SS	216991.69	**Corrected SS**	5891.12997
Coeff Variation	16.7304524	**Std Error Mean**	0.23083845

Basic Statistical Measures			
Location		**Variability**	
Mean	25.17808	**Std Deviation**	4.21241
Median	26.10000	**Variance**	17.74437
Mode	27.50000	**Range**	21.20000
		Interquartile Range	6.60000

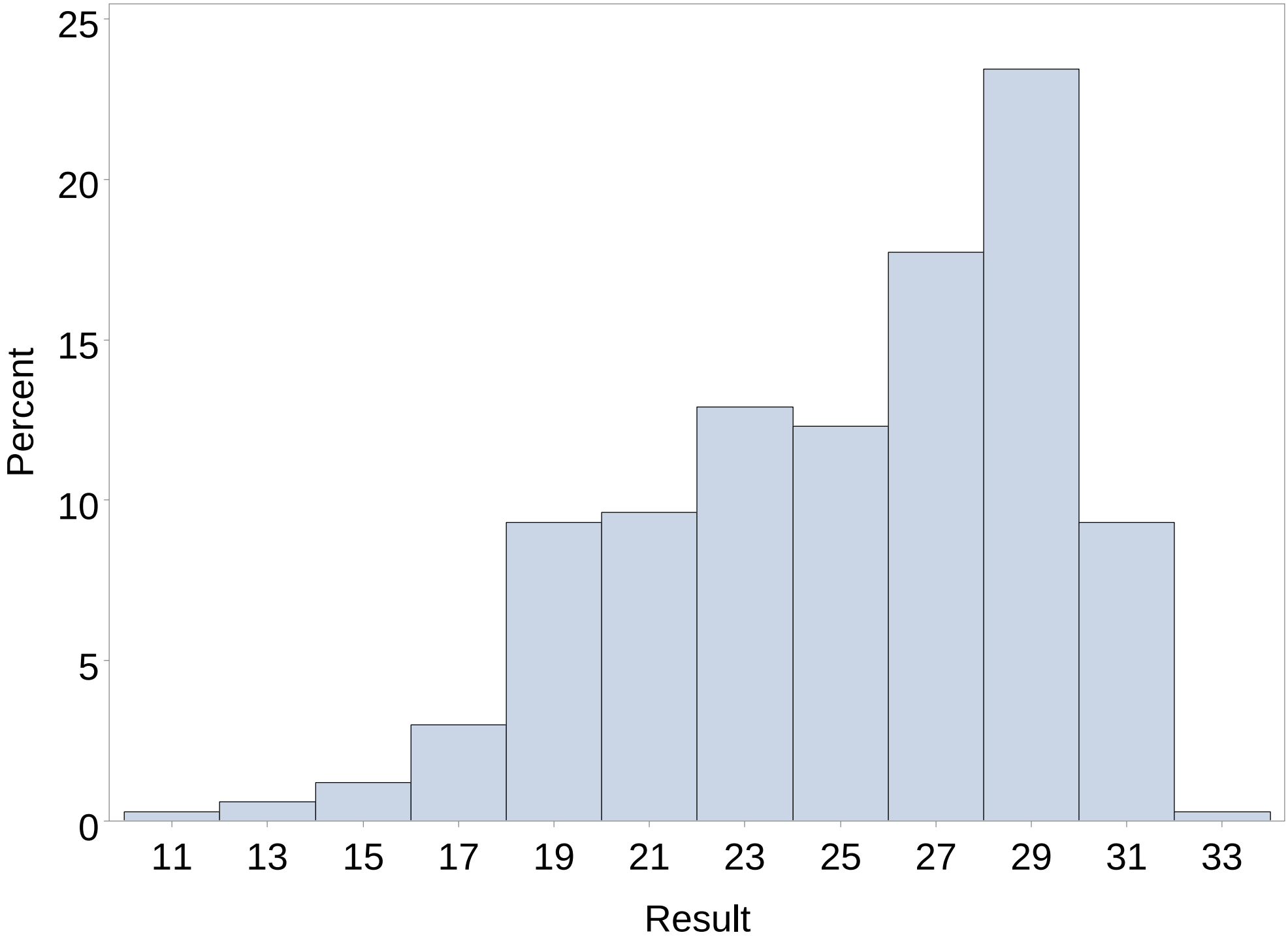
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.0723	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.0
99%	31.4
95%	30.5
90%	29.9
75% Q3	28.7
50% Median	26.1
25% Q1	22.1
10%	19.2
5%	17.9
1%	14.3
0% Min	11.8

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.8	118067	31.4	117859
12.9	118078	31.4	117931
13.7	117961	31.6	117943
14.3	117973	31.6	118002
14.8	118091	33.0	117848


Parameter=Surface Temperature (deg C) STATION=14
Percent
25
20
15
10
5
0
11
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=15

Moments			
N	331	**Sum Weights**	331
Mean	25.4135952	**Sum Observations**	8411.9
Std Deviation	4.25657738	**Variance**	18.118451
Skewness	-0.6520194	**Kurtosis**	-0.312893
Uncorrected SS	219755.71	**Corrected SS**	5979.08882
Coeff Variation	16.7492138	**Std Error Mean**	0.23396265

Basic Statistical Measures			
Location		**Variability**	
Mean	25.41360	**Std Deviation**	4.25658
Median	26.30000	**Variance**	18.11845
Mode	29.80000	**Range**	20.20000
		Interquartile Range	6.60000

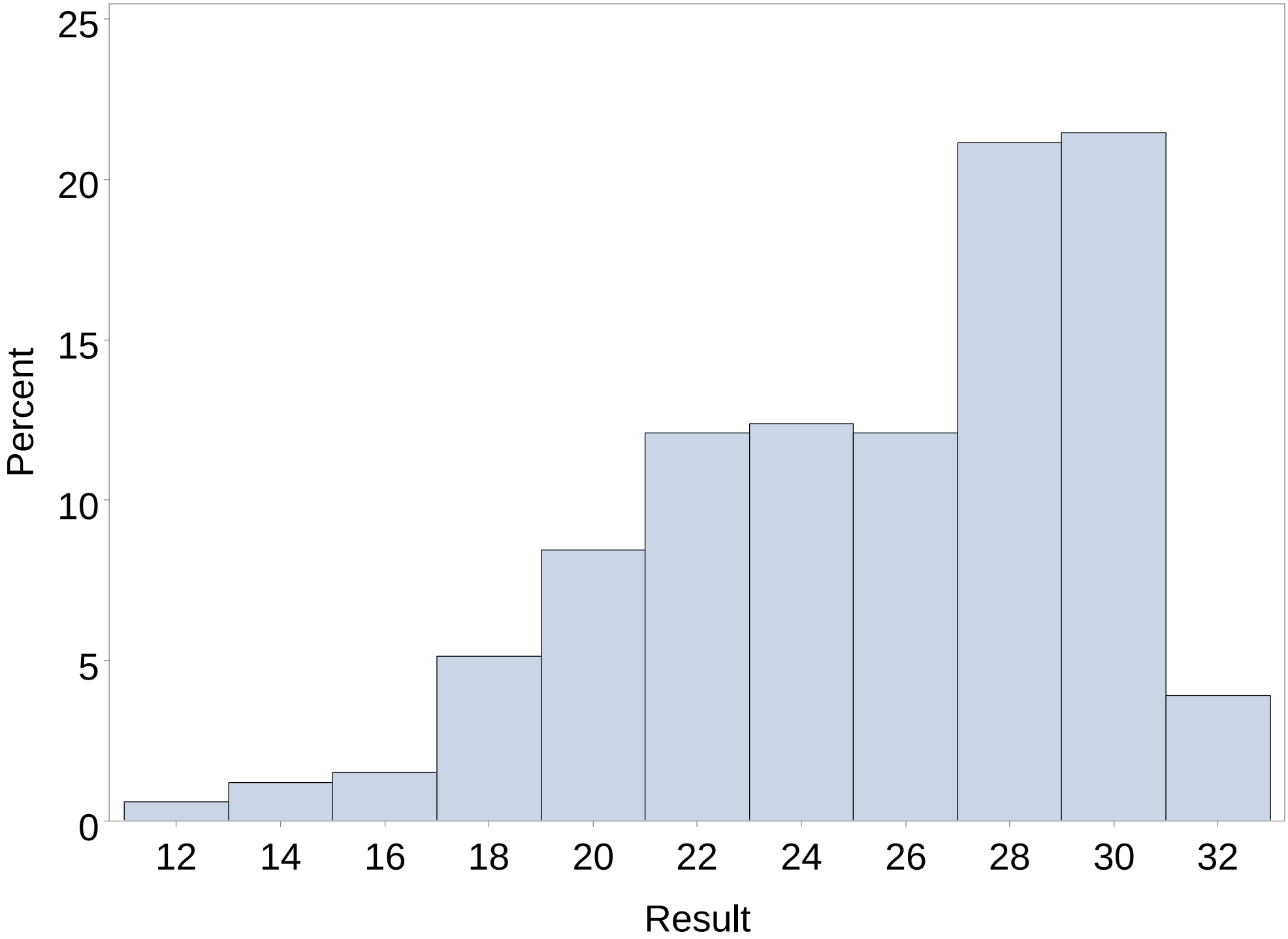
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.6224	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.1
99%	31.4
95%	30.7
90%	30.3
75% Q3	29.0
50% Median	26.3
25% Q1	22.4
10%	19.4
5%	17.9
1%	14.3
0% Min	11.9

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.9	118398	31.4	118275
12.9	118409	31.4	118404
13.3	118294	31.7	118192
14.3	118422	32.0	118264
14.3	118304	32.1	118489


Parameter=Surface Temperature (deg C) STATION=15
Percent
25
20
15
10
5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=16

Moments			
N	332	**Sum Weights**	332
Mean	25.5840361	**Sum Observations**	8493.9
Std Deviation	4.3769395	**Variance**	19.1575994
Skewness	-0.6457004	**Kurtosis**	-0.2809075
Uncorrected SS	223649.41	**Corrected SS**	6341.16539
Coeff Variation	17.1080883	**Std Error Mean**	0.24021576

Basic Statistical Measures			
Location		**Variability**	
Mean	25.58404	**Std Deviation**	4.37694
Median	26.50000	**Variance**	19.15760
Mode	23.40000	**Range**	20.40000
		Interquartile Range	6.75000

Note: The mode displayed is the smallest of 5 modes with a count of 6.

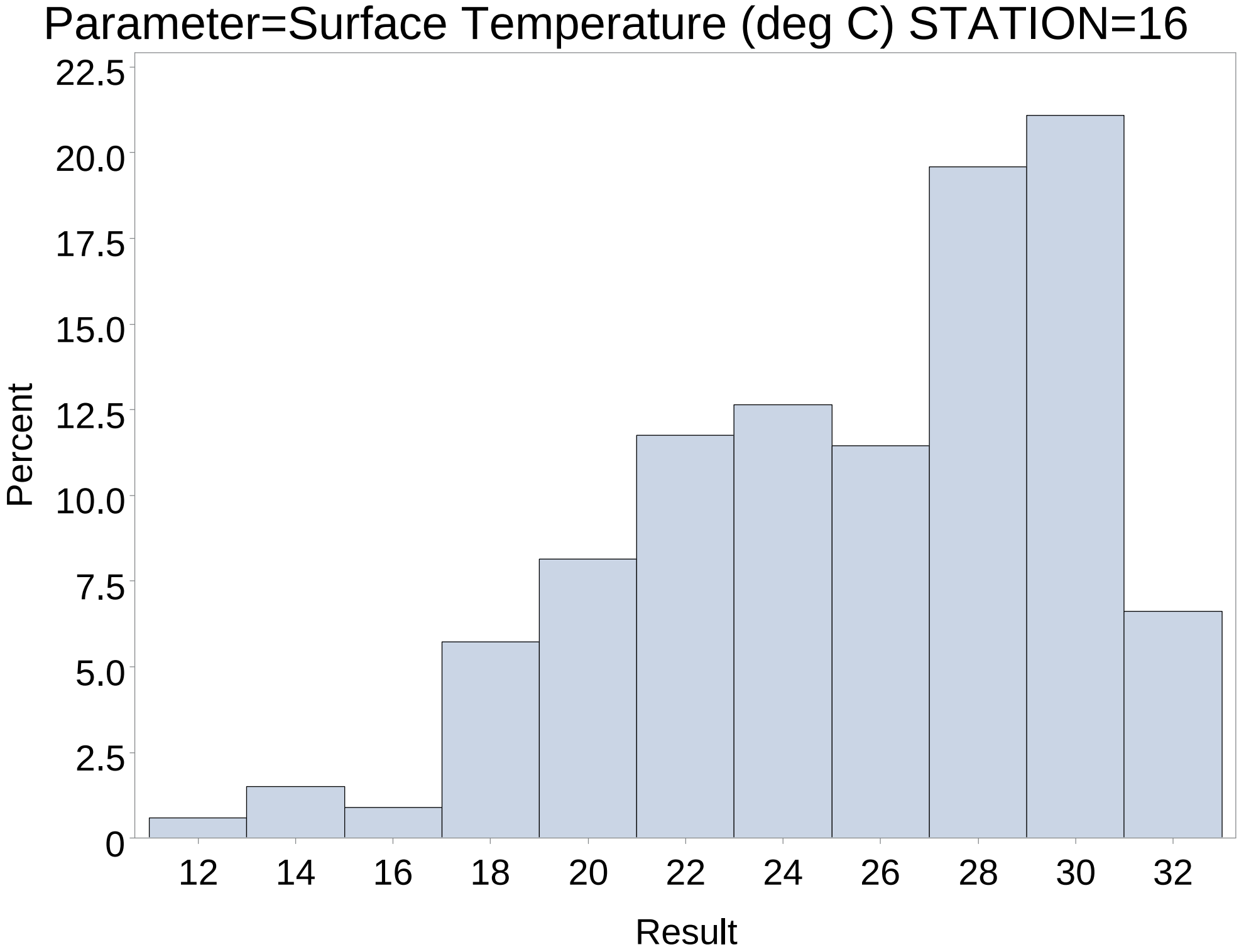
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	106.5044	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.60
99%	32.30
95%	31.20
90%	30.40
75% Q3	29.15
50% Median	26.50
25% Q1	22.40
10%	19.50
5%	18.20
1%	13.90
0% Min	12.20

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.2	118741	32.3	118523
12.2	118624	32.3	118736
13.0	118730	32.5	118559
13.9	118636	32.5	118821
14.3	118754	32.6	118595


Parameter=Surface Temperature (deg C) STATION=16
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=17

Moments			
N	331	**Sum Weights**	331
Mean	25.6308157	**Sum Observations**	8483.8
Std Deviation	4.46047479	**Variance**	19.8958354
Skewness	-0.5981654	**Kurtosis**	-0.332048
Uncorrected SS	224012.34	**Corrected SS**	6565.62568
Coeff Variation	17.4027813	**Std Error Mean**	0.24516987

Basic Statistical Measures			
Location		**Variability**	
Mean	25.63082	**Std Deviation**	4.46047
Median	26.50000	**Variance**	19.89584
Mode	30.40000	**Range**	20.50000
		Interquartile Range	6.90000

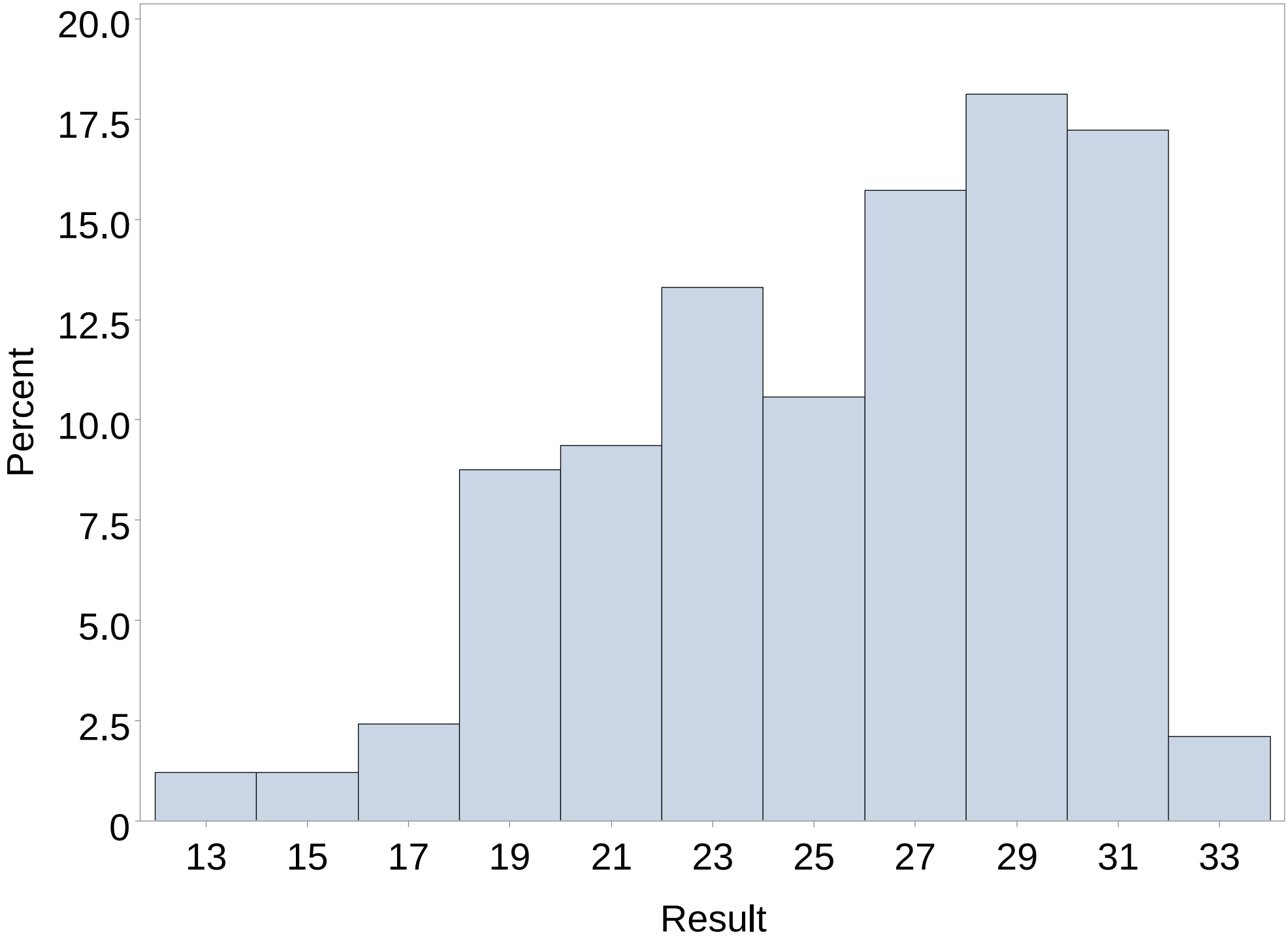
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	104.5431	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.8
99%	32.3
95%	31.3
90%	30.7
75% Q3	29.5
50% Median	26.5
25% Q1	22.6
10%	19.4
5%	18.1
1%	13.6
0% Min	12.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.3	119072	32.3	118891
12.3	118956	32.3	119152
12.8	119061	32.8	118927
13.6	118967	32.8	119067
14.2	119050	32.8	119163


Parameter=Surface Temperature (deg C) STATION=17
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=18

Moments			
N	329	**Sum Weights**	329
Mean	25.5866261	**Sum Observations**	8418
Std Deviation	4.45078136	**Variance**	19.8094547
Skewness	-0.5779415	**Kurtosis**	-0.4467907
Uncorrected SS	221885.72	**Corrected SS**	6497.50116
Coeff Variation	17.3949521	**Std Error Mean**	0.24537952

Basic Statistical Measures			
Location		**Variability**	
Mean	25.58663	**Std Deviation**	4.45078
Median	26.30000	**Variance**	19.80945
Mode	23.40000	**Range**	20.80000
		Interquartile Range	7.10000

Note: The mode displayed is the smallest of 4 modes with a count of 6.

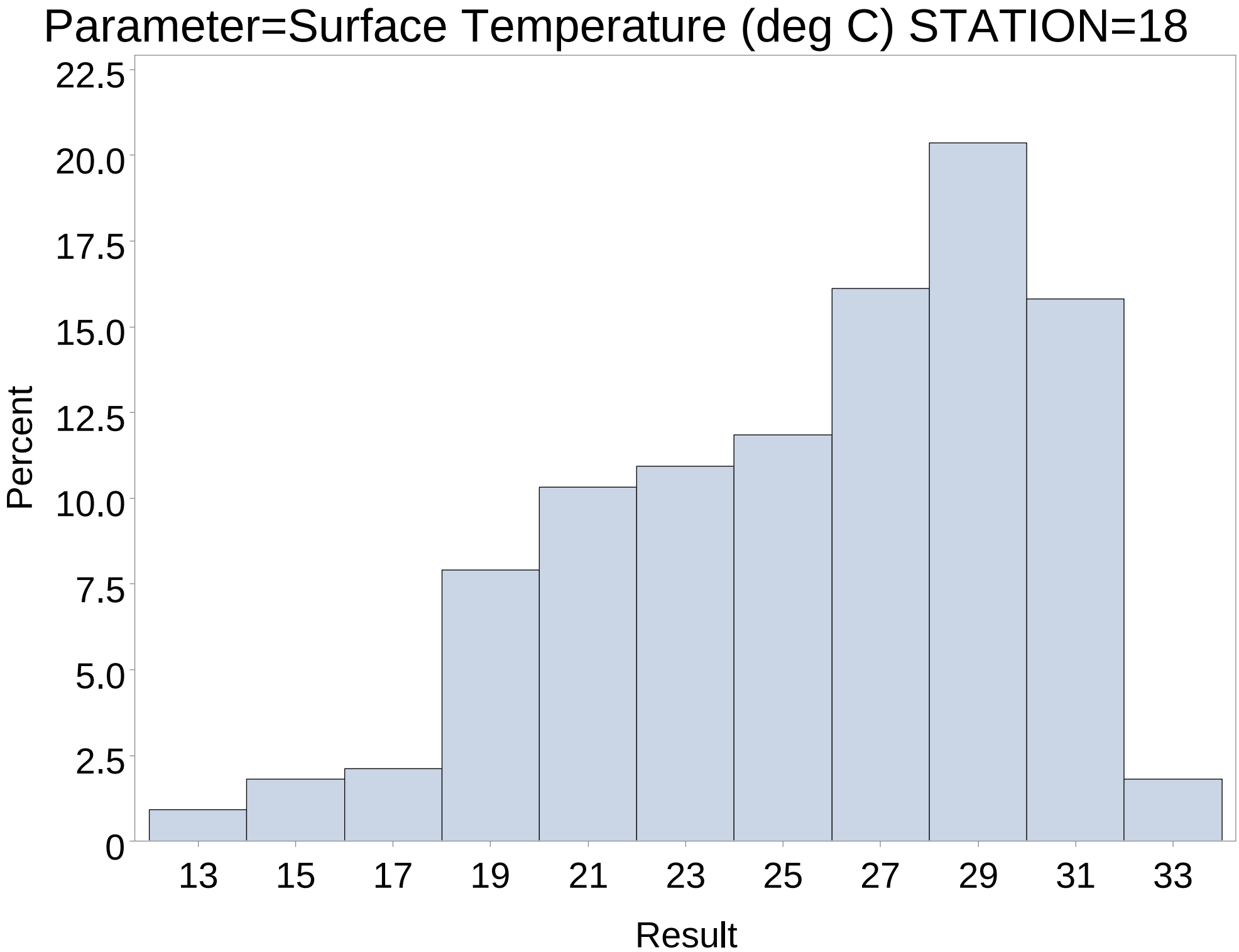
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	104.2737	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.9
99%	32.0
95%	31.3
90%	30.8
75% Q3	29.4
50% Median	26.3
25% Q1	22.3
10%	19.1
5%	18.0
1%	14.6
0% Min	12.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.1	119391	32.0	119302
12.9	119402	32.0	119481
13.6	119285	32.4	119468
14.6	119297	32.6	119361
14.8	119309	32.9	119257


Parameter=Surface Temperature (deg C) STATION=18
Percent
22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=19

Moments			
N	330	**Sum Weights**	330
Mean	25.7215152	**Sum Observations**	8488.1
Std Deviation	4.51068884	**Variance**	20.3463138
Skewness	-0.5556591	**Kurtosis**	-0.4483352
Uncorrected SS	225020.73	**Corrected SS**	6693.93724
Coeff Variation	17.5366374	**Std Error Mean**	0.24830525

Basic Statistical Measures			
Location		**Variability**	
Mean	25.72152	**Std Deviation**	4.51069
Median	26.50000	**Variance**	20.34631
Mode	29.70000	**Range**	21.20000
		Interquartile Range	7.40000

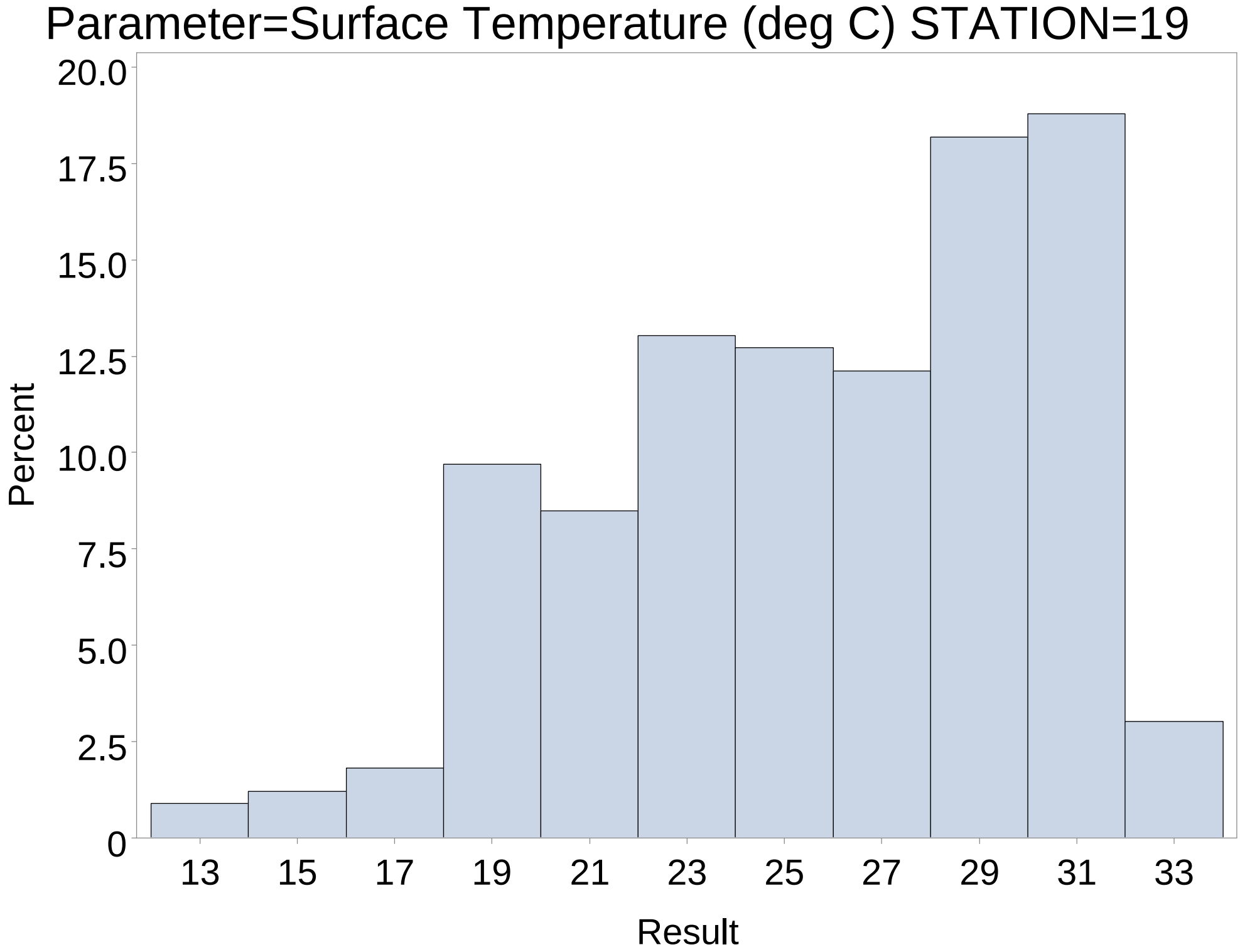
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	103.5883	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	33.5
99%	32.4
95%	31.4
90%	30.8
75% Q3	29.7
50% Median	26.5
25% Q1	22.3
10%	19.3
5%	18.2
1%	14.0
0% Min	12.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.3	119731	32.4	119551
12.3	119617	32.4	119587
12.8	119720	32.4	119714
14.0	119629	33.2	119726
14.4	119570	33.5	119515


Parameter=Surface Temperature (deg C) STATION=19
Percent
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
13
15
17
19
21
23
25
27
29
31
33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	26.1	**Sum Observations**	26.1
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	681.21	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	26.10000	**Std Deviation**	.
Median	26.10000	**Variance**	.
Mode	26.10000	**Range**	0
		Interquartile Range	0

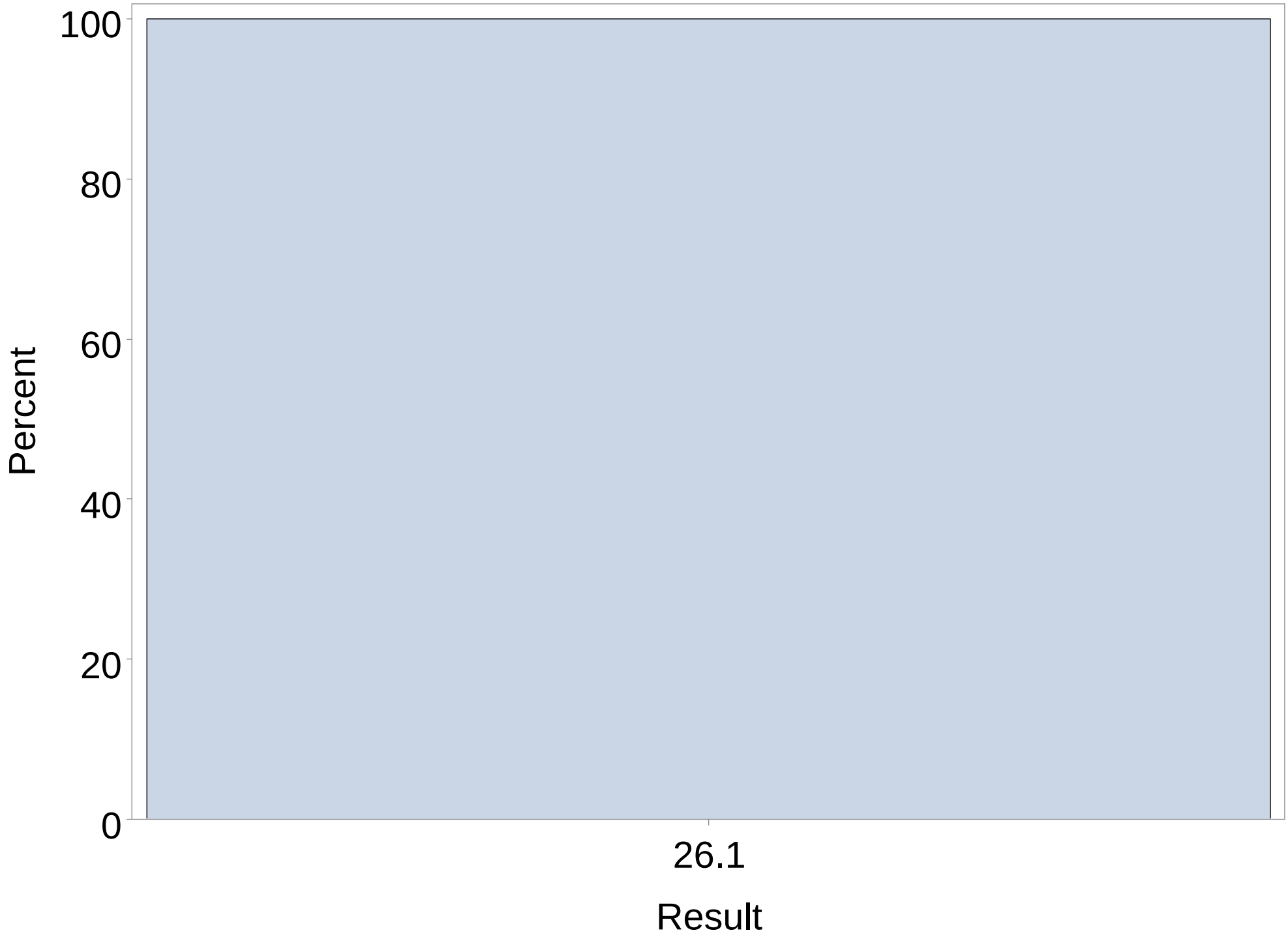
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.1
99%	26.1
95%	26.1
90%	26.1
75% Q3	26.1
50% Median	26.1
25% Q1	26.1
10%	26.1
5%	26.1
1%	26.1
0% Min	26.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Surface Temperature (deg C) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
26.1	119828	26.1	119828


Parameter=Surface Temperature (deg C) STATION=22
100
80
60
40
20
0
Percent
26.1
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=1

Moments			
N	335	**Sum Weights**	335
Mean	23.9592978	**Sum Observations**	8026.36477
Std Deviation	4.44242331	**Variance**	19.7351248
Skewness	-0.5607124	**Kurtosis**	-0.5220987
Uncorrected SS	198897.595	**Corrected SS**	6591.5317
Coeff Variation	18.5415422	**Std Error Mean**	0.24271551

Basic Statistical Measures			
Location		**Variability**	
Mean	23.95930	**Std Deviation**	4.44242
Median	24.80000	**Variance**	19.73512
Mode	27.80000	**Range**	21.80000
		Interquartile Range	7.34286

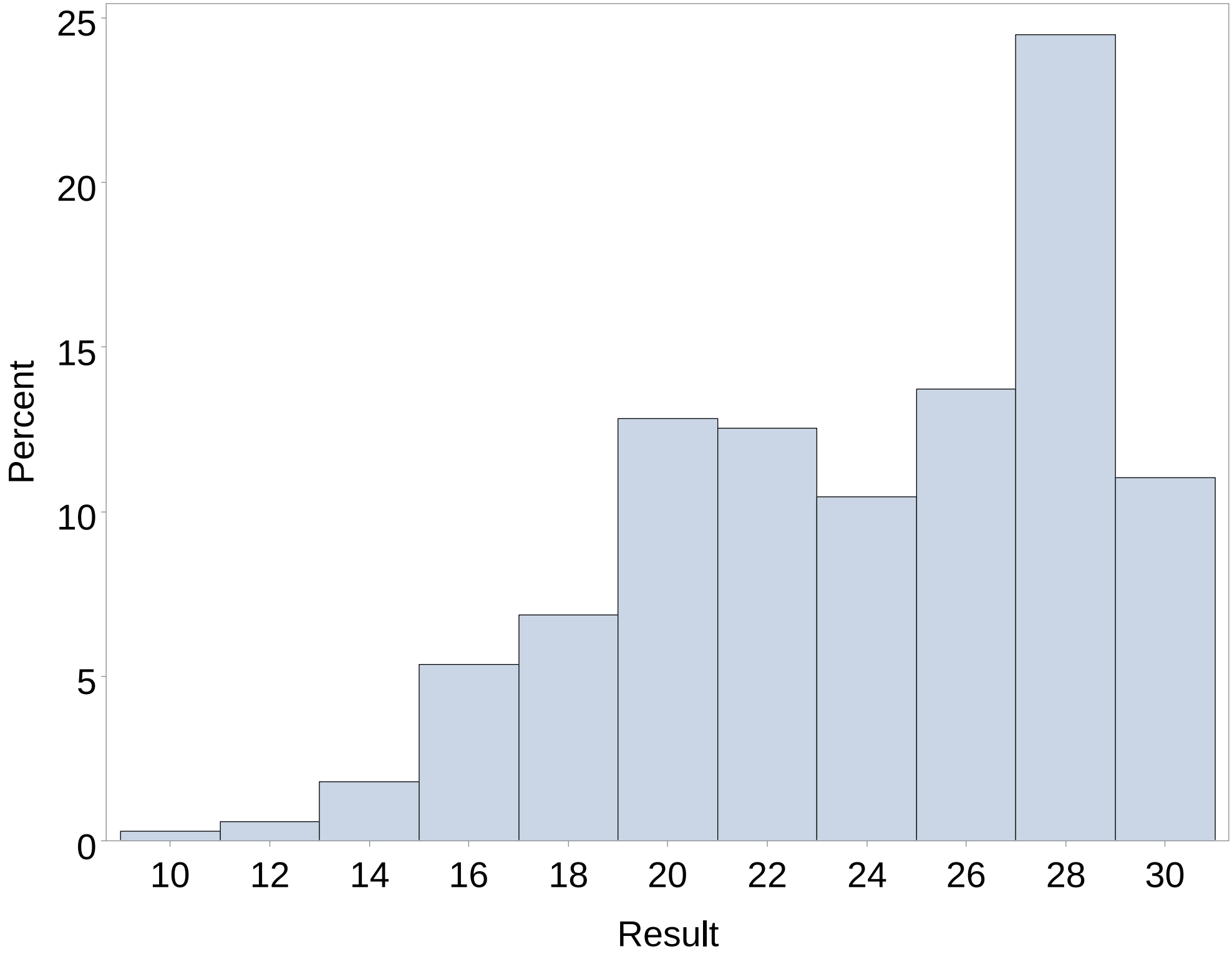
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	98.7135	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.8000
99%	30.5000
95%	29.7000
90%	29.1000
75% Q3	27.8000
50% Median	24.8000
25% Q1	20.4571
10%	17.4286
5%	16.0250
1%	13.7286
0% Min	9.0000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
9.0000	120056	30.3900	119846
11.0800	119948	30.5000	120027
12.6875	120067	30.7000	120147
13.7286	119889	30.7143	119918
14.0000	120080	30.8000	119882


25
20
15
10
5
0
Percent
10
12
14
16
18
20
22
24
26
28
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=2

Moments			
N	333	**Sum Weights**	333
Mean	23.6552678	**Sum Observations**	7877.20416
Std Deviation	4.22981483	**Variance**	17.8913335
Skewness	-0.5635409	**Kurtosis**	-0.5564825
Uncorrected SS	192277.296	**Corrected SS**	5939.92271
Coeff Variation	17.8810693	**Std Error Mean**	0.23179242

Basic Statistical Measures			
Location		**Variability**	
Mean	23.65527	**Std Deviation**	4.22981
Median	24.58571	**Variance**	17.89133
Mode	27.00000	**Range**	21.40571
		Interquartile Range	7.15556

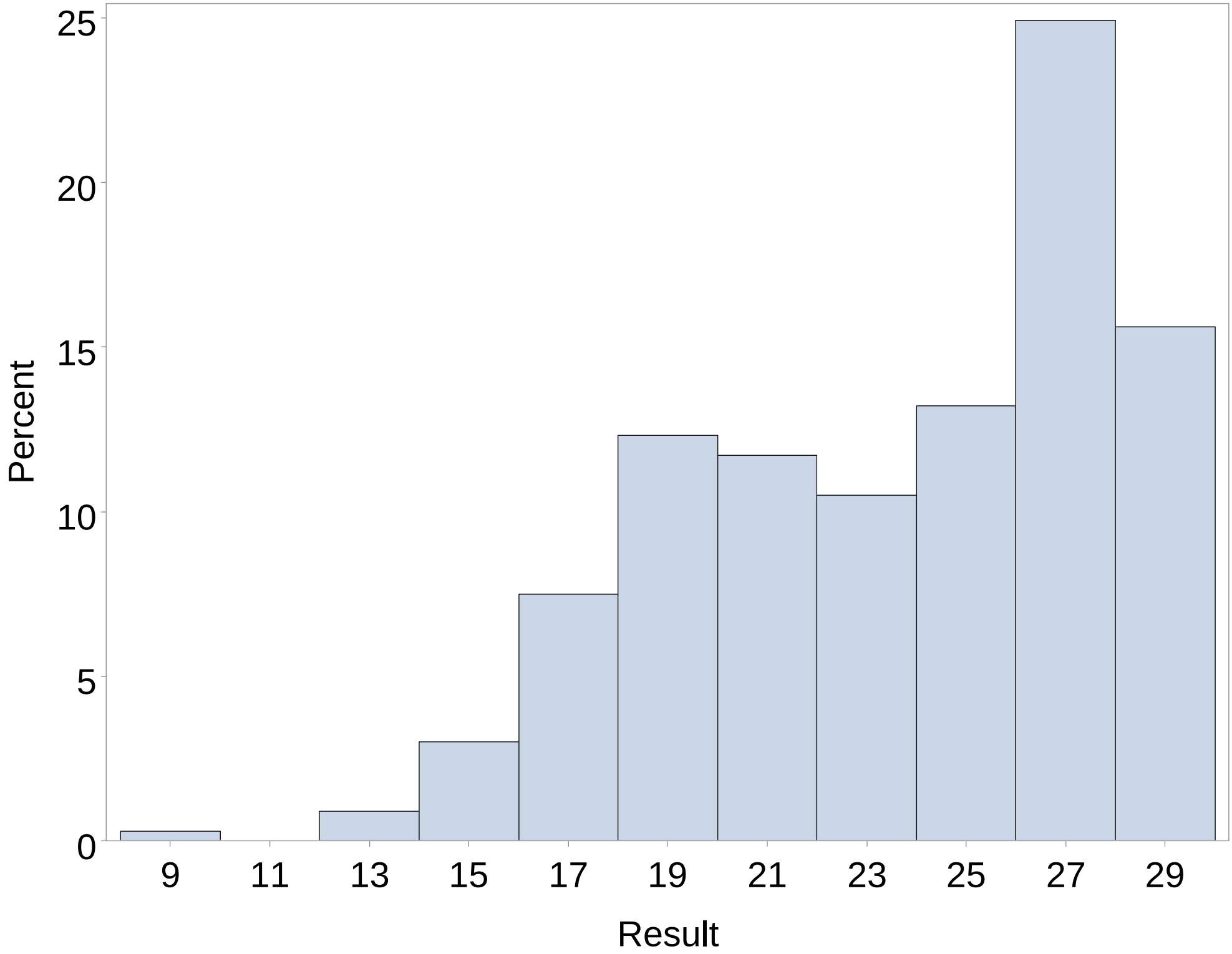
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	102.0537	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	29.8857
99%	29.5667
95%	28.8000
90%	28.5000
75% Q3	27.4000
50% Median	24.5857
25% Q1	20.2444
10%	17.8125
5%	16.1750
1%	13.9667
0% Min	8.4800

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
8.4800	120389	29.5286	120217
12.6571	120282	29.5667	120204
12.7556	120400	29.6889	120491
13.9667	120306	29.7000	120360
14.2000	120485	29.8857	120253


25
20
15
10
5
0
Percent
9
11
13
15
17
19
21
23
25
27
29
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=3

Moments			
N	333	**Sum Weights**	333
Mean	24.306216	**Sum Observations**	8093.96992
Std Deviation	4.53910959	**Variance**	20.6035159
Skewness	-0.9877123	**Kurtosis**	1.61920536
Uncorrected SS	203574.148	**Corrected SS**	6840.36728
Coeff Variation	18.6746863	**Std Error Mean**	0.24874167

Basic Statistical Measures			
Location		**Variability**	
Mean	24.30622	**Std Deviation**	4.53911
Median	25.36000	**Variance**	20.60352
Mode	20.80000	**Range**	31.16250
		Interquartile Range	6.80000

Note: The mode displayed is the smallest of 2 modes with a count of 4.

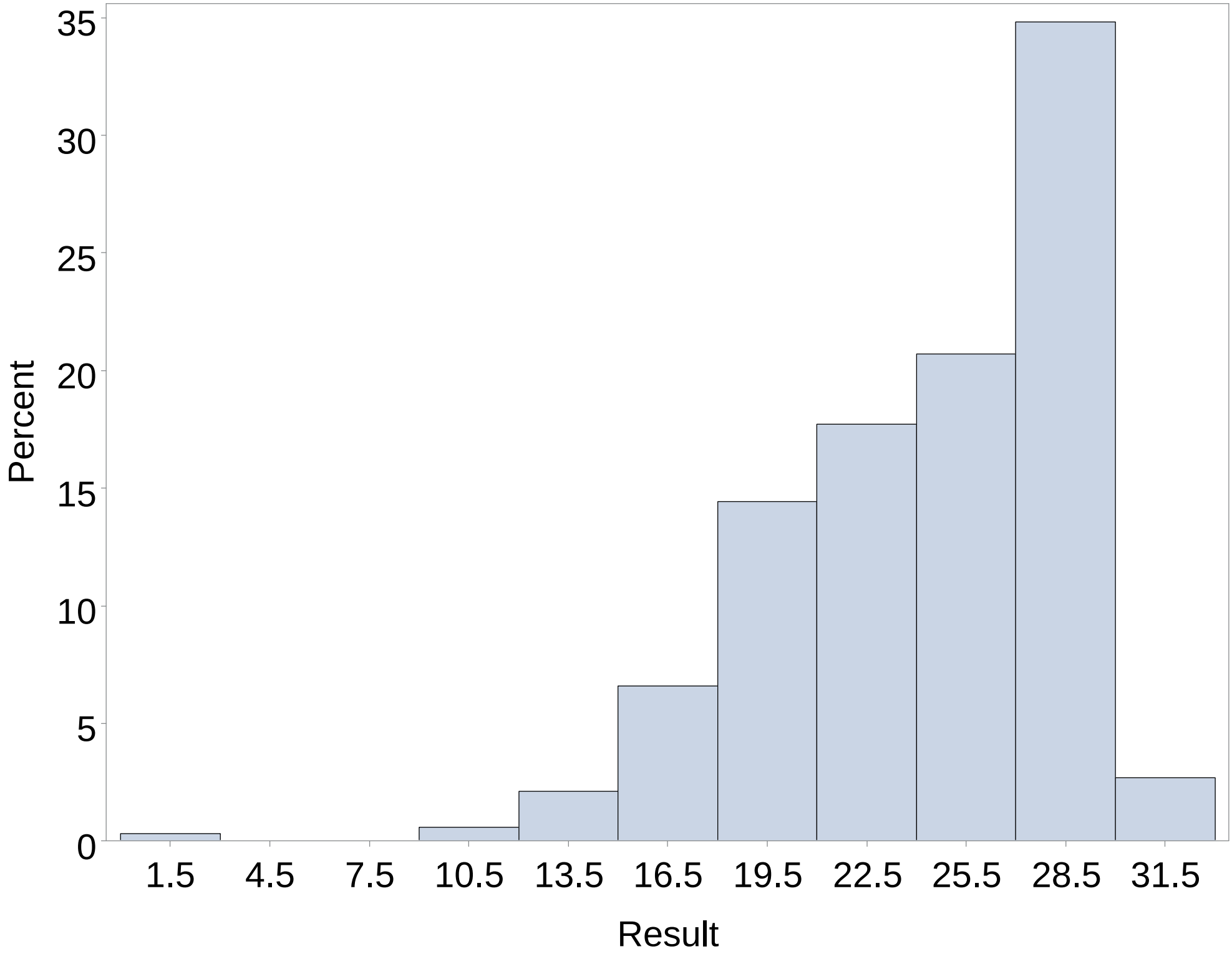
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	97.7167	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.5625
99%	30.6333
95%	29.7400
90%	29.2000
75% Q3	28.0000
50% Median	25.3600
25% Q1	21.2000
10%	18.1600
5%	16.7000
1%	12.0000
0% Min	0.4000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4000	120820	30.4250	120526
9.8000	120722	30.6333	120813
11.0667	120733	30.8000	120514
12.0000	120615	31.3500	120824
13.2000	120746	31.5625	120550


35
30
25
20
15
10
5
0
Percent
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=4

Moments			
N	334	**Sum Weights**	334
Mean	24.8101661	**Sum Observations**	8286.59548
Std Deviation	4.11490341	**Variance**	16.9324301
Skewness	-0.6174215	**Kurtosis**	-0.4989867
Uncorrected SS	211230.309	**Corrected SS**	5638.49923
Coeff Variation	16.5855537	**Std Error Mean**	0.2251575

Basic Statistical Measures			
Location		**Variability**	
Mean	24.81017	**Std Deviation**	4.11490
Median	25.88333	**Variance**	16.93243
Mode	22.32500	**Range**	20.36667
		Interquartile Range	6.57917

Note: The mode displayed is the smallest of 4 modes with a count of 3.

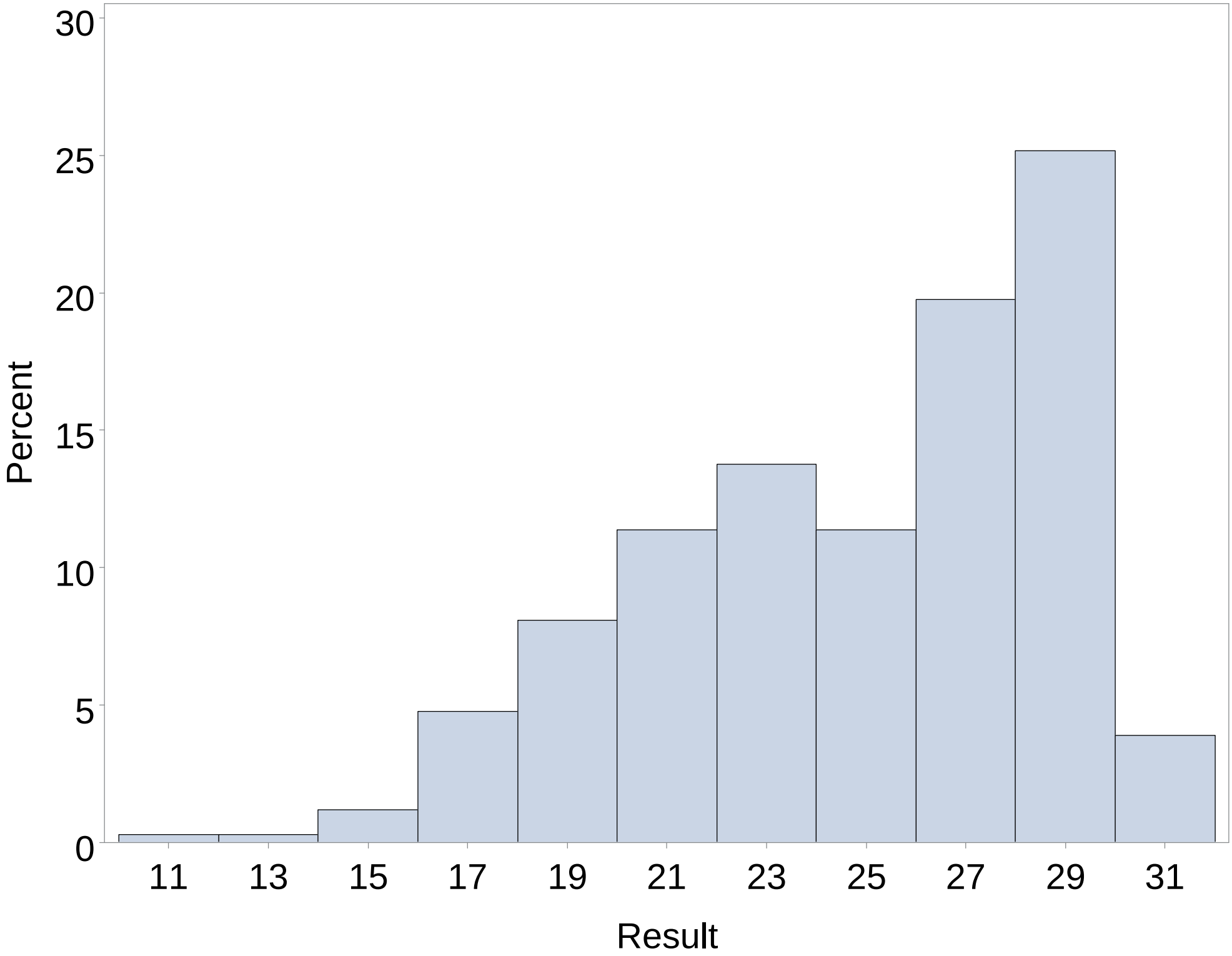
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.1903	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.3500
99%	30.4857
95%	29.8857
90%	29.4900
75% Q3	28.3625
50% Median	25.8833
25% Q1	21.7833
10%	18.7778
5%	17.2571
1%	14.8333
0% Min	10.9833

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.9833	121056	30.3750	121111
13.6200	121067	30.4857	120836
14.5000	120961	31.0500	120883
14.8333	120890	31.1333	120919
15.3500	120902	31.3500	120847


30
25
20
15
10
5
0
Percent
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=5

Moments			
N	335	**Sum Weights**	335
Mean	24.8768287	**Sum Observations**	8333.73762
Std Deviation	4.13733243	**Variance**	17.1175196
Skewness	-0.6519811	**Kurtosis**	-0.3506347
Uncorrected SS	213034.215	**Corrected SS**	5717.25155
Coeff Variation	16.6312695	**Std Error Mean**	0.22604662

Basic Statistical Measures			
Location		**Variability**	
Mean	24.87683	**Std Deviation**	4.13733
Median	25.80000	**Variance**	17.11752
Mode	19.20000	**Range**	20.07333
		Interquartile Range	6.42000

Note: The mode displayed is the smallest of 27 modes with a count of 2.

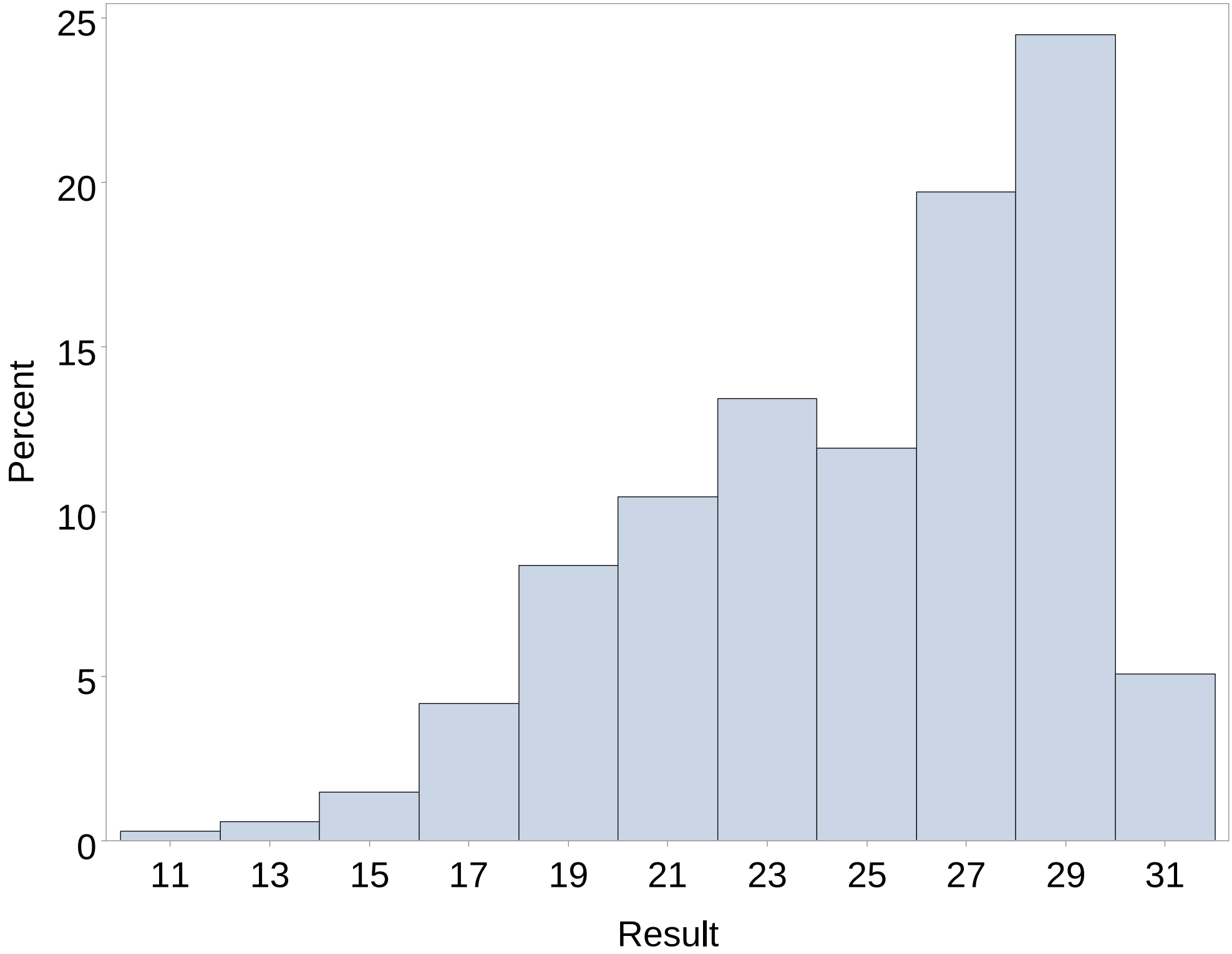
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.0518	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.2333
99%	30.7200
95%	30.0200
90%	29.5667
75% Q3	28.3600
50% Median	25.8000
25% Q1	21.9400
10%	19.0200
5%	17.5250
1%	14.5667
0% Min	11.1600

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.1600	121391	30.6200	121446
12.5000	121402	30.7200	121255
13.7500	121284	30.9167	121218
14.5667	121296	31.2200	121181
15.2000	121415	31.2333	121254


25
20
15
10
5
0
Percent
11
13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=6

Moments			
N	333	**Sum Weights**	333
Mean	25.1870721	**Sum Observations**	8387.295
Std Deviation	4.16283823	**Variance**	17.3292222
Skewness	-0.6433336	**Kurtosis**	-0.3750104
Uncorrected SS	217004.705	**Corrected SS**	5753.30176
Coeff Variation	16.5276783	**Std Error Mean**	0.22812213

Basic Statistical Measures			
Location		**Variability**	
Mean	25.18707	**Std Deviation**	4.16284
Median	26.05000	**Variance**	17.32922
Mode	29.00000	**Range**	19.93000
		Interquartile Range	6.48333

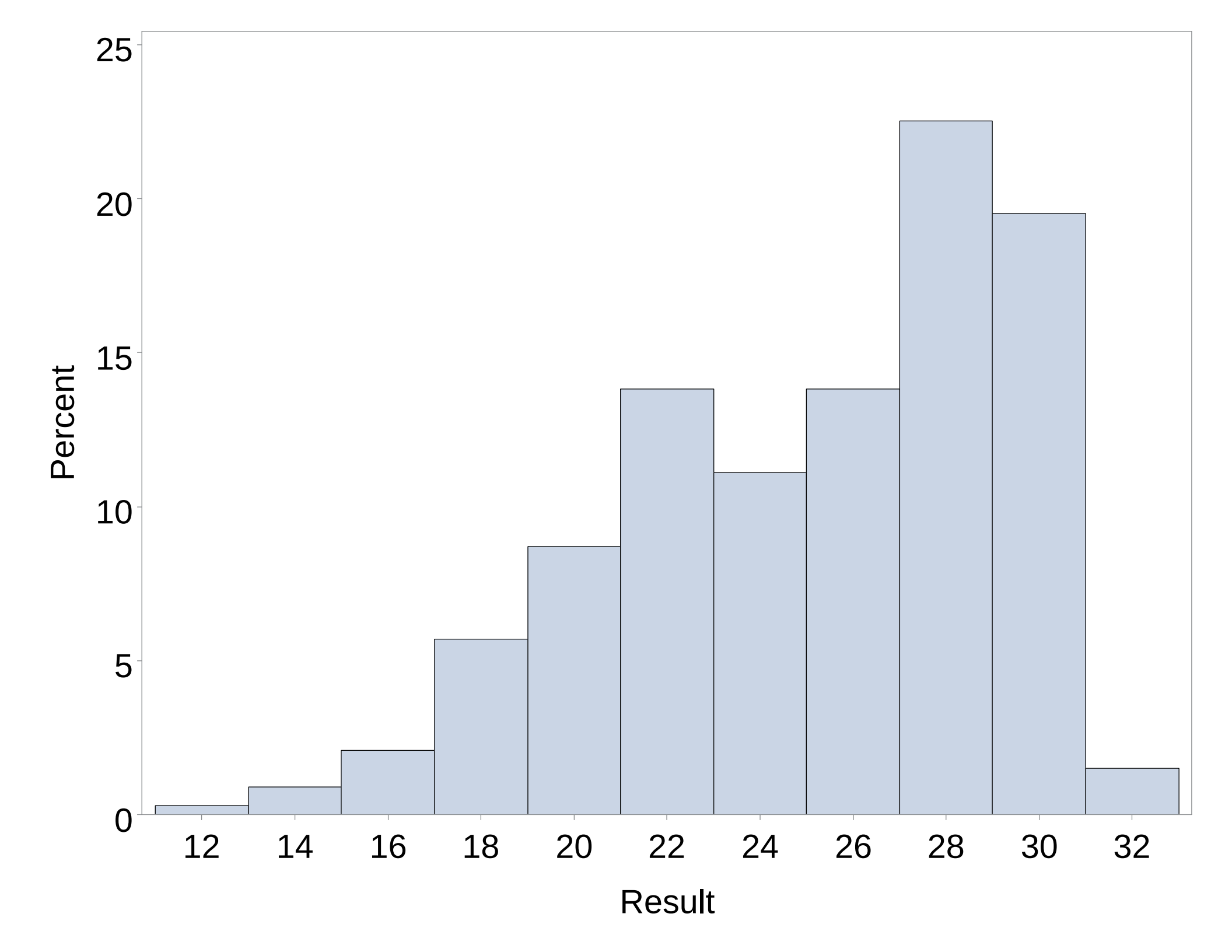
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.4105	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.5800
99%	31.1750
95%	30.3250
90%	29.9000
75% Q3	28.7500
50% Median	26.0500
25% Q1	22.2667
10%	19.3333
5%	17.7000
1%	14.7000
0% Min	11.6500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.650	121724	31.1500	121552
13.275	121735	31.1750	121779
13.400	121618	31.4333	121516
14.700	121630	31.5250	121588
15.100	121748	31.5800	121815


25
20
15
10
5
0
Percent
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=7

Moments			
N	333	**Sum Weights**	333
Mean	25.2349674	**Sum Observations**	8403.24413
Std Deviation	4.27130277	**Variance**	18.2440274
Skewness	-0.680121	**Kurtosis**	-0.2922391
Uncorrected SS	218112.609	**Corrected SS**	6057.01709
Coeff Variation	16.9261276	**Std Error Mean**	0.23406595

Basic Statistical Measures			
Location		**Variability**	
Mean	25.23497	**Std Deviation**	4.27130
Median	26.00000	**Variance**	18.24403
Mode	26.00000	**Range**	19.50000
		Interquartile Range	6.50000

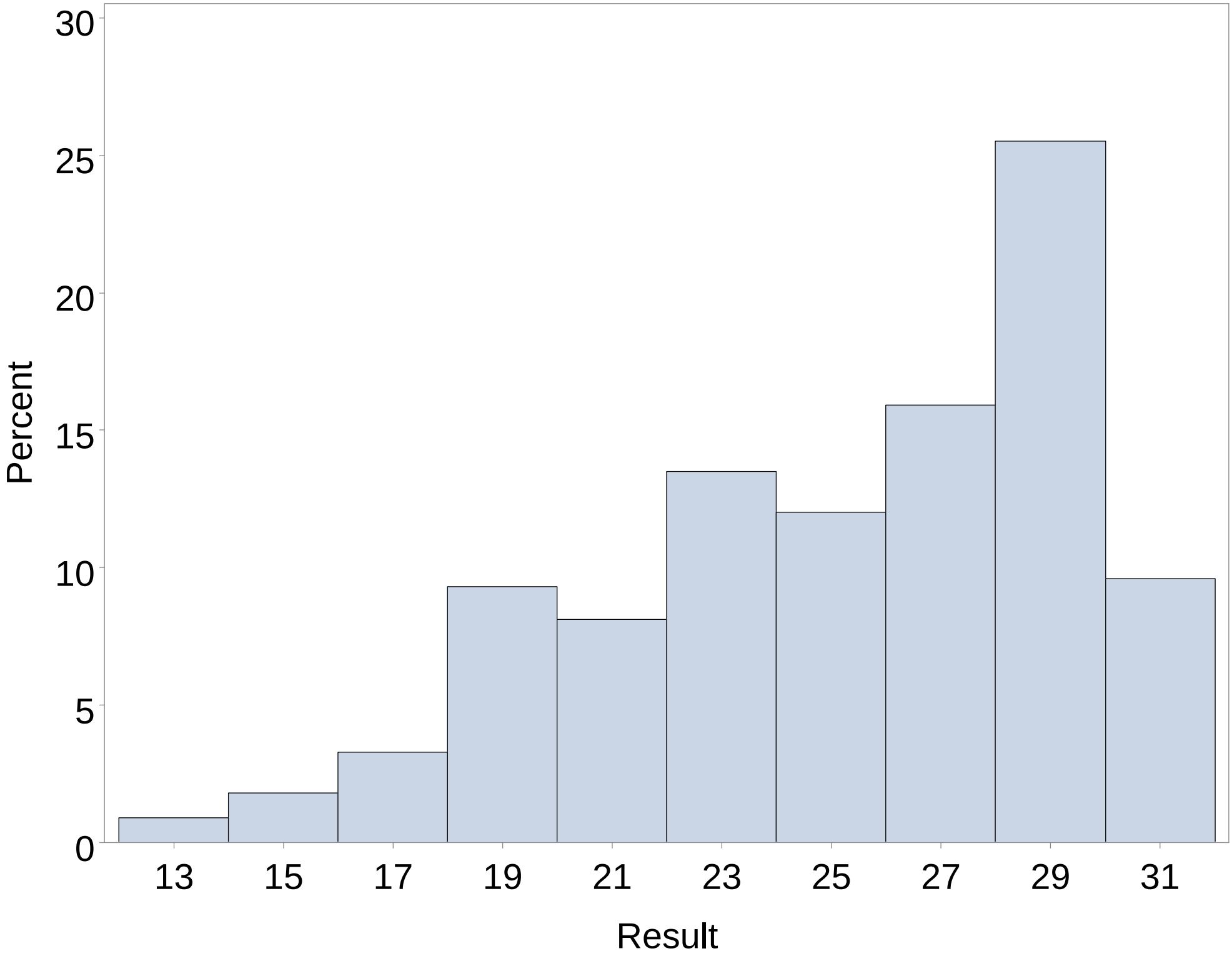
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	107.8114	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.8400
99%	31.5500
95%	30.5182
90%	29.9750
75% Q3	28.8000
50% Median	26.0000
25% Q1	22.3000
10%	19.2000
5%	17.5000
1%	14.0750
0% Min	12.3400

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.340	122057	31.100	121872
12.500	121951	31.550	121849
12.750	122068	31.800	121921
14.075	121963	31.825	121885
14.300	122046	31.840	122148


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15
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0
Percent
13
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17
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25
27
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31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=8

Moments			
N	333	**Sum Weights**	333
Mean	25.3583269	**Sum Observations**	8444.32286
Std Deviation	4.35252222	**Variance**	18.9444497
Skewness	-0.6149748	**Kurtosis**	-0.3486301
Uncorrected SS	220423.457	**Corrected SS**	6289.55731
Coeff Variation	17.1640749	**Std Error Mean**	0.23851675

Basic Statistical Measures			
Location		**Variability**	
Mean	25.35833	**Std Deviation**	4.35252
Median	26.10000	**Variance**	18.94445
Mode	24.30000	**Range**	20.56000
		Interquartile Range	6.42500

Note: The mode displayed is the smallest of 2 modes with a count of 4.

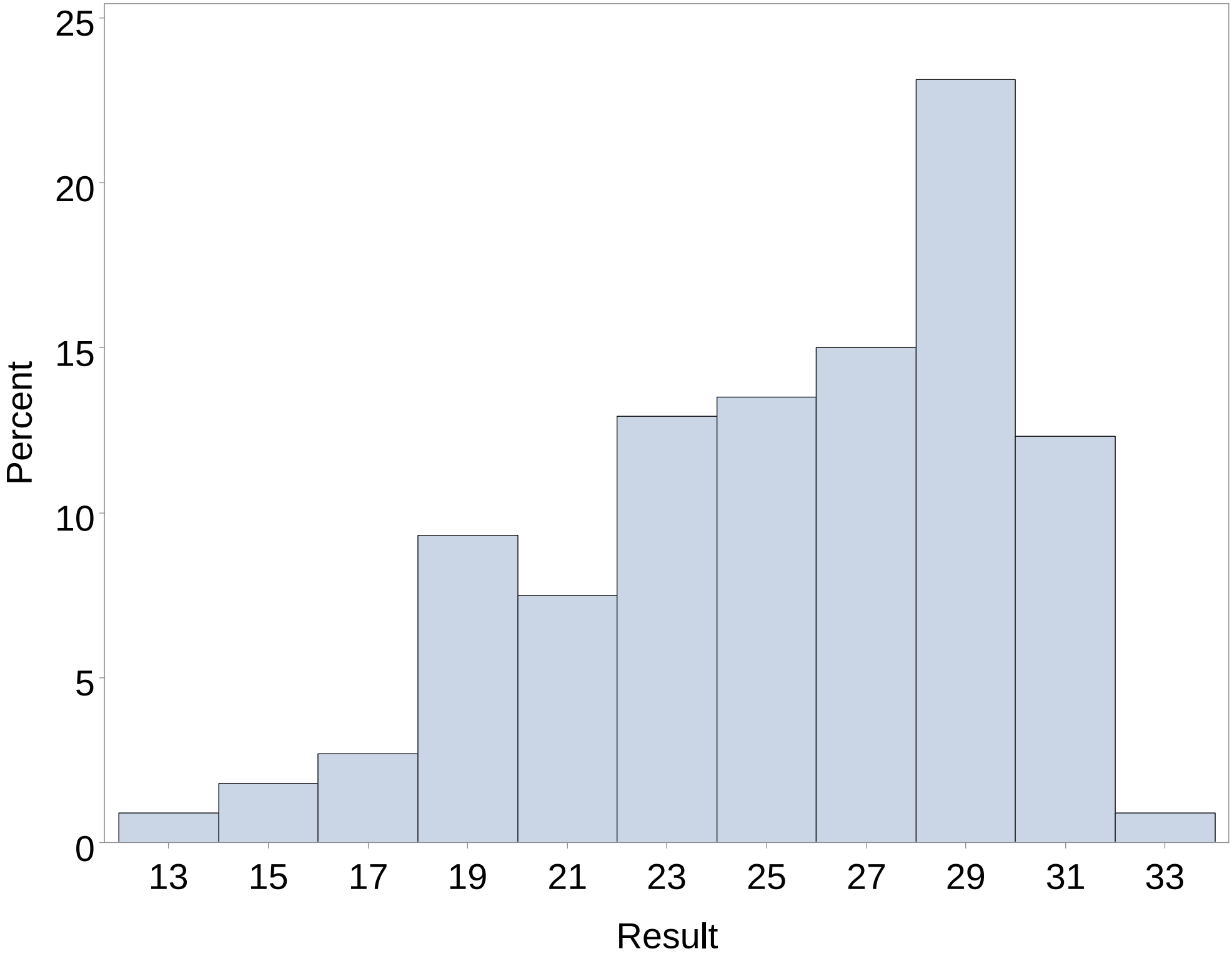
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	106.3168	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.9000
99%	31.7333
95%	30.8833
90%	30.4250
75% Q3	28.9250
50% Median	26.1000
25% Q1	22.5000
10%	19.1750
5%	17.5750
1%	14.2250
0% Min	12.3400

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.3400	122284	31.7000	122456
12.4333	122390	31.7333	122421
13.1500	122401	32.3833	122254
14.2250	122296	32.8667	122468
14.5667	122414	32.9000	122218


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Percent
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17
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21
23
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27
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33
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=9

Moments			
N	333	**Sum Weights**	333
Mean	25.3910642	**Sum Observations**	8455.22437
Std Deviation	4.3963403	**Variance**	19.327808
Skewness	-0.633327	**Kurtosis**	-0.3547402
Uncorrected SS	221103.977	**Corrected SS**	6416.83226
Coeff Variation	17.3145177	**Std Error Mean**	0.24091796

Basic Statistical Measures			
Location		**Variability**	
Mean	25.39106	**Std Deviation**	4.39634
Median	26.18333	**Variance**	19.32781
Mode	21.47143	**Range**	19.96571
		Interquartile Range	6.81667

Note: The mode displayed is the smallest of 12 modes with a count of 2.

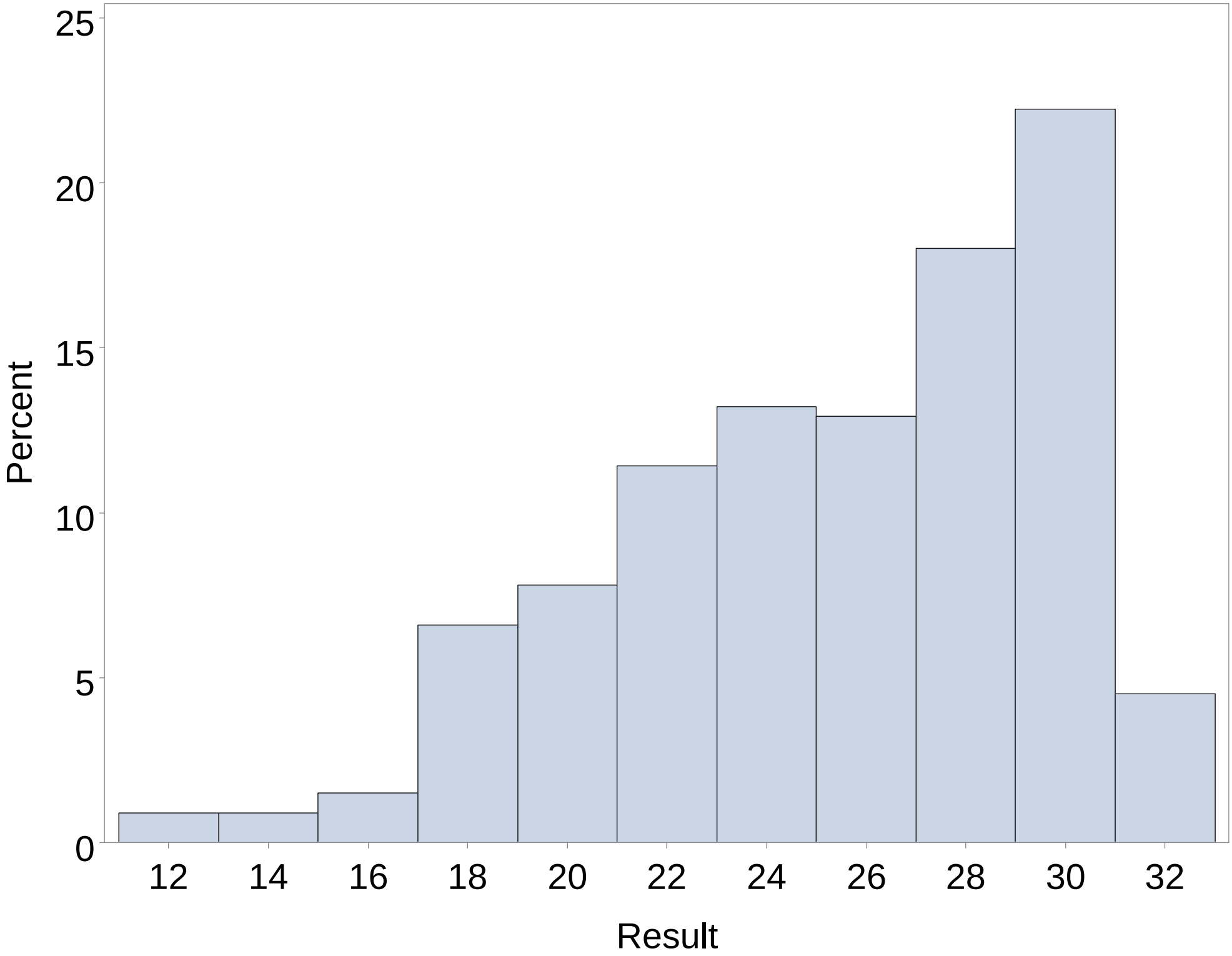
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	105.393	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.2800
99%	31.9800
95%	30.9429
90%	30.2625
75% Q3	29.1667
50% Median	26.1833
25% Q1	22.3500
10%	19.0000
5%	17.7000
1%	13.8667
0% Min	12.3143

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.3143	122734	31.6833	122694
12.5167	122723	31.9800	122801
12.8500	122617	32.1714	122587
13.8667	122629	32.2250	122515
13.9167	122712	32.2800	122551


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Percent
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22
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Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=10

Moments			
N	335	**Sum Weights**	335
Mean	24.9087321	**Sum Observations**	8344.42524
Std Deviation	4.14651388	**Variance**	17.1935774
Skewness	-0.6492752	**Kurtosis**	-0.4065917
Uncorrected SS	213591.707	**Corrected SS**	5742.65485
Coeff Variation	16.6468284	**Std Error Mean**	0.22654825

Basic Statistical Measures			
Location		**Variability**	
Mean	24.90873	**Std Deviation**	4.14651
Median	25.90000	**Variance**	17.19358
Mode	22.10000	**Range**	20.56000
		Interquartile Range	6.61667

Note: The mode displayed is the smallest of 10 modes with a count of 3.

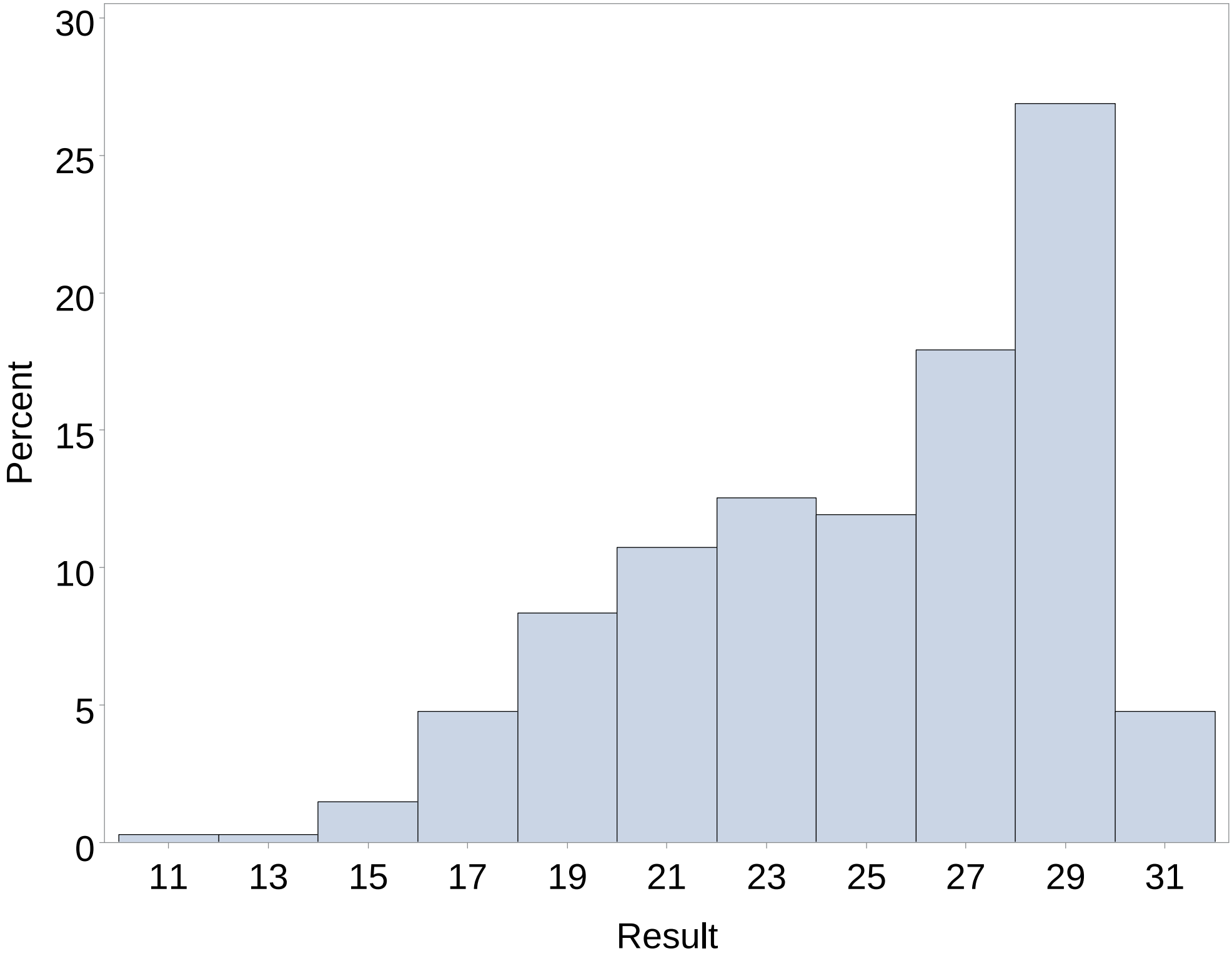
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.9489	**Pr > |t|**	<.0001
Sign	**M**	167.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	28140	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.3600
99%	30.9250
95%	29.9000
90%	29.4750
75% Q3	28.4500
50% Median	25.9000
25% Q1	21.8333
10%	18.8000
5%	17.5000
1%	15.0250
0% Min	10.8000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=10

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
10.8000	123058	30.7333	123136
12.8333	123069	30.9250	122885
14.1000	122963	31.2600	122921
15.0250	122892	31.3000	123028
15.1500	122975	31.3600	122849


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Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=11

Moments			
N	332	**Sum Weights**	332
Mean	24.8576513	**Sum Observations**	8252.74024
Std Deviation	4.12415428	**Variance**	17.0086485
Skewness	-0.66438	**Kurtosis**	-0.4120922
Uncorrected SS	210773.602	**Corrected SS**	5629.86265
Coeff Variation	16.5910859	**Std Error Mean**	0.22634237

Basic Statistical Measures			
Location		**Variability**	
Mean	24.85765	**Std Deviation**	4.12415
Median	26.05000	**Variance**	17.00865
Mode	28.00000	**Range**	20.22500
		Interquartile Range	6.51667

Note: The mode displayed is the smallest of 2 modes with a count of 4.

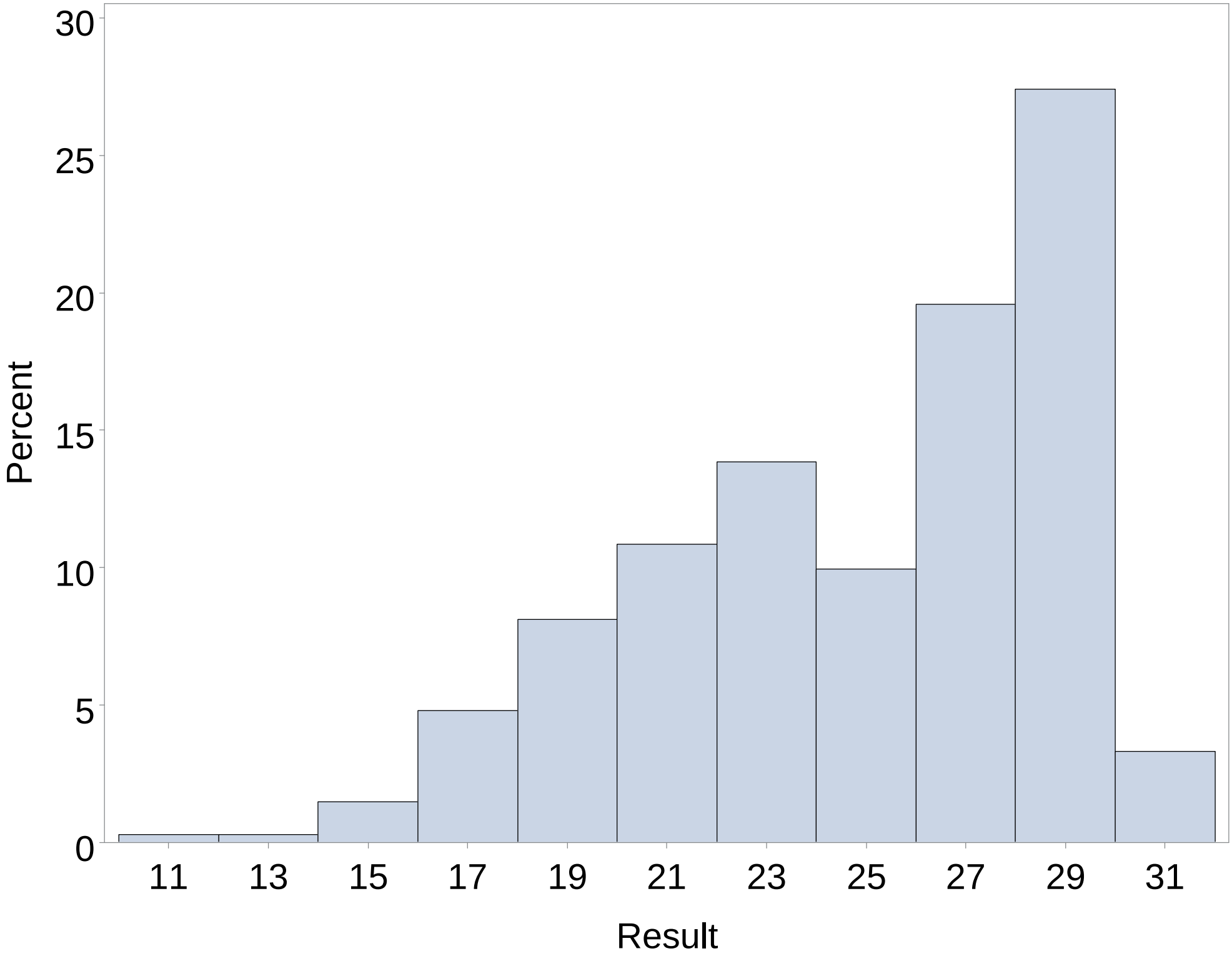
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.8232	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.4750
99%	30.7667
95%	29.8333
90%	29.4750
75% Q3	28.3625
50% Median	26.0500
25% Q1	21.8458
10%	18.7333
5%	17.3667
1%	15.1000
0% Min	11.2500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=11

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.250	123390	30.6000	123468
12.725	123401	30.7667	123361
14.300	123296	31.1200	123183
15.100	123308	31.2400	123219
15.200	123226	31.4750	123255


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Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=12

Moments			
N	333	**Sum Weights**	333
Mean	24.8400766	**Sum Observations**	8271.74552
Std Deviation	4.10562571	**Variance**	16.8561624
Skewness	-0.5860927	**Kurtosis**	-0.5447744
Uncorrected SS	211067.038	**Corrected SS**	5596.24593
Coeff Variation	16.5282329	**Std Error Mean**	0.2249869

Basic Statistical Measures			
Location		**Variability**	
Mean	24.84008	**Std Deviation**	4.10563
Median	25.80000	**Variance**	16.85616
Mode	22.30000	**Range**	19.91000
		Interquartile Range	6.59821

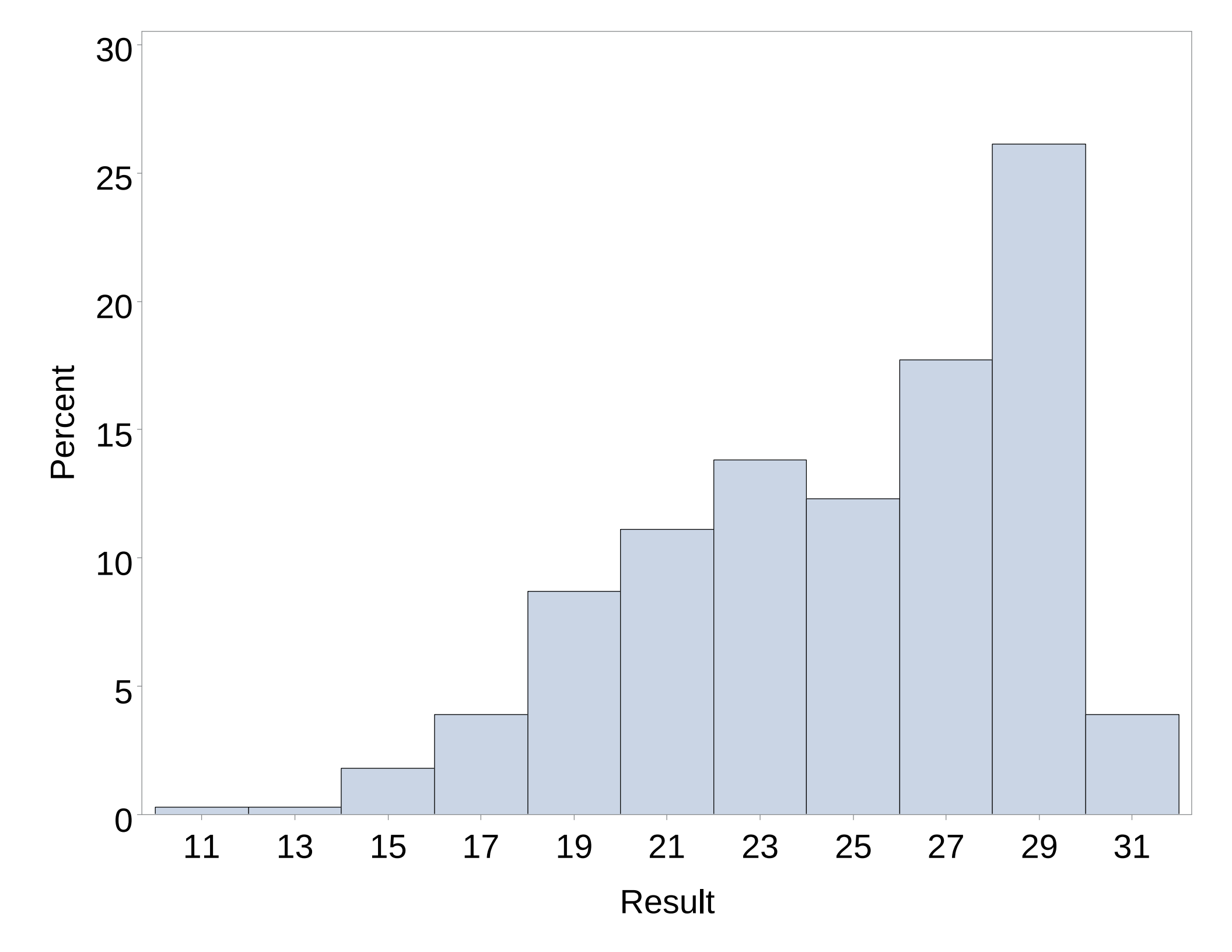
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.4068	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.3600
99%	30.6143
95%	29.9125
90%	29.5875
75% Q3	28.2857
50% Median	25.8000
25% Q1	21.6875
10%	19.0571
5%	17.4250
1%	15.1800
0% Min	11.4500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=12

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.4500	123723	30.5750	123695
13.7500	123734	30.6143	123814
15.1143	123558	31.0556	123551
15.1800	123629	31.1875	123515
15.6333	123617	31.3600	123587


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Percent
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13
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17
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23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=13

Moments			
N	334	**Sum Weights**	334
Mean	24.8544304	**Sum Observations**	8301.37976
Std Deviation	4.1163048	**Variance**	16.9439652
Skewness	-0.6292434	**Kurtosis**	-0.4514346
Uncorrected SS	211968.406	**Corrected SS**	5642.34042
Coeff Variation	16.5616541	**Std Error Mean**	0.22523418

Basic Statistical Measures			
Location		**Variability**	
Mean	24.85443	**Std Deviation**	4.11630
Median	25.83333	**Variance**	16.94397
Mode	22.70000	**Range**	20.26429
		Interquartile Range	6.47222

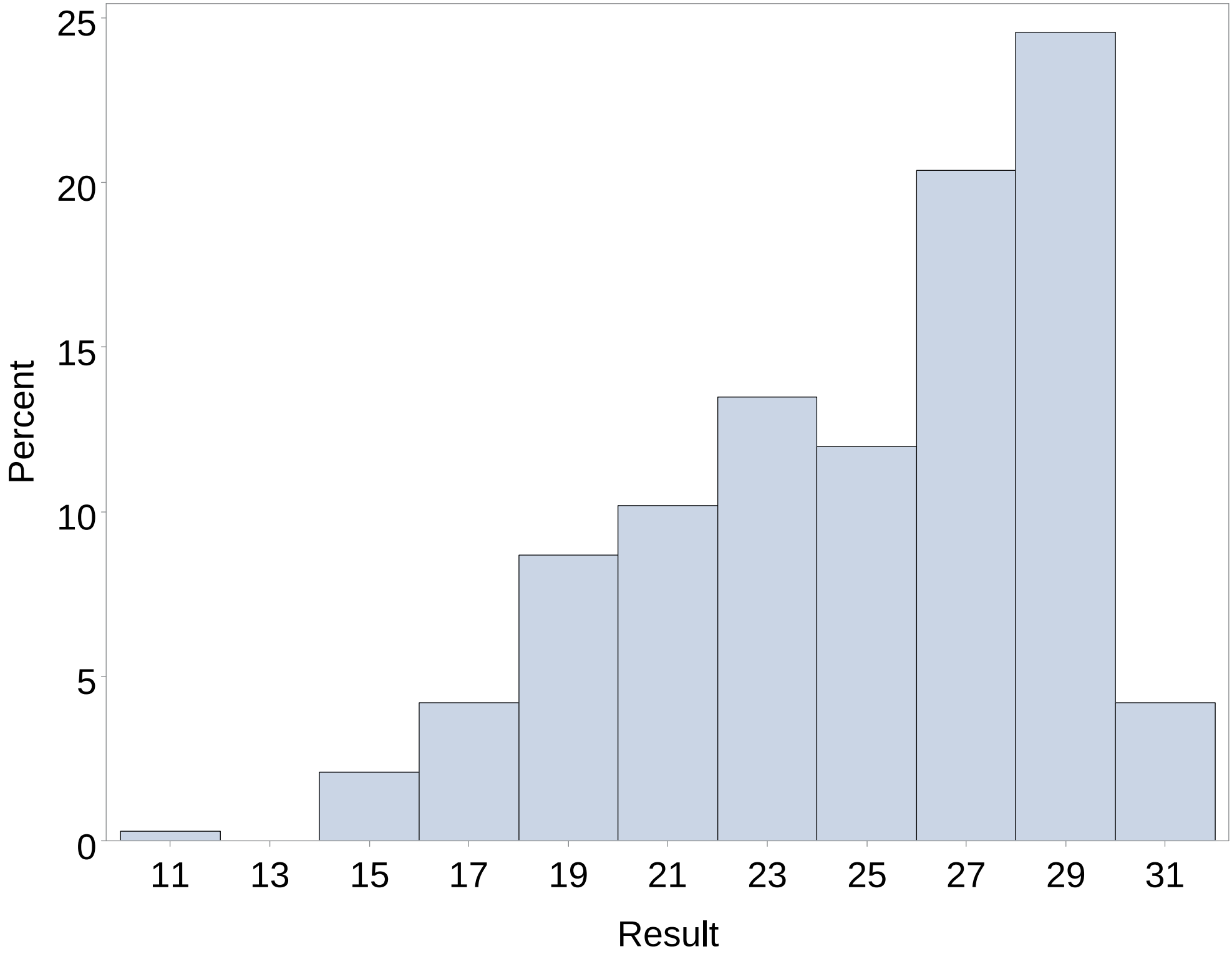
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	110.3493	**Pr > |t|**	<.0001
Sign	**M**	167	**Pr >= |M|**	<.0001
Signed Rank	**S**	27972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.3143
99%	30.6000
95%	29.9000
90%	29.4714
75% Q3	28.2556
50% Median	25.8333
25% Q1	21.7833
10%	19.0200
5%	17.6625
1%	15.0143
0% Min	11.0500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=13

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.0500	124057	30.5800	124148
14.1000	123950	30.6000	123921
14.1700	124068	30.9750	123884
15.0143	123962	31.2667	123920
15.4750	123974	31.3143	123848


25
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Percent
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13
15
17
19
21
23
25
27
29
31
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=14

Moments			
N	333	**Sum Weights**	333
Mean	24.9851316	**Sum Observations**	8320.04881
Std Deviation	4.1546205	**Variance**	17.2608715
Skewness	-0.6208229	**Kurtosis**	-0.4262984
Uncorrected SS	213608.123	**Corrected SS**	5730.60932
Coeff Variation	16.6283715	**Std Error Mean**	0.2276718

Basic Statistical Measures			
Location		**Variability**	
Mean	24.98513	**Std Deviation**	4.15462
Median	25.84000	**Variance**	17.26087
Mode	26.22500	**Range**	19.63333
		Interquartile Range	6.53500

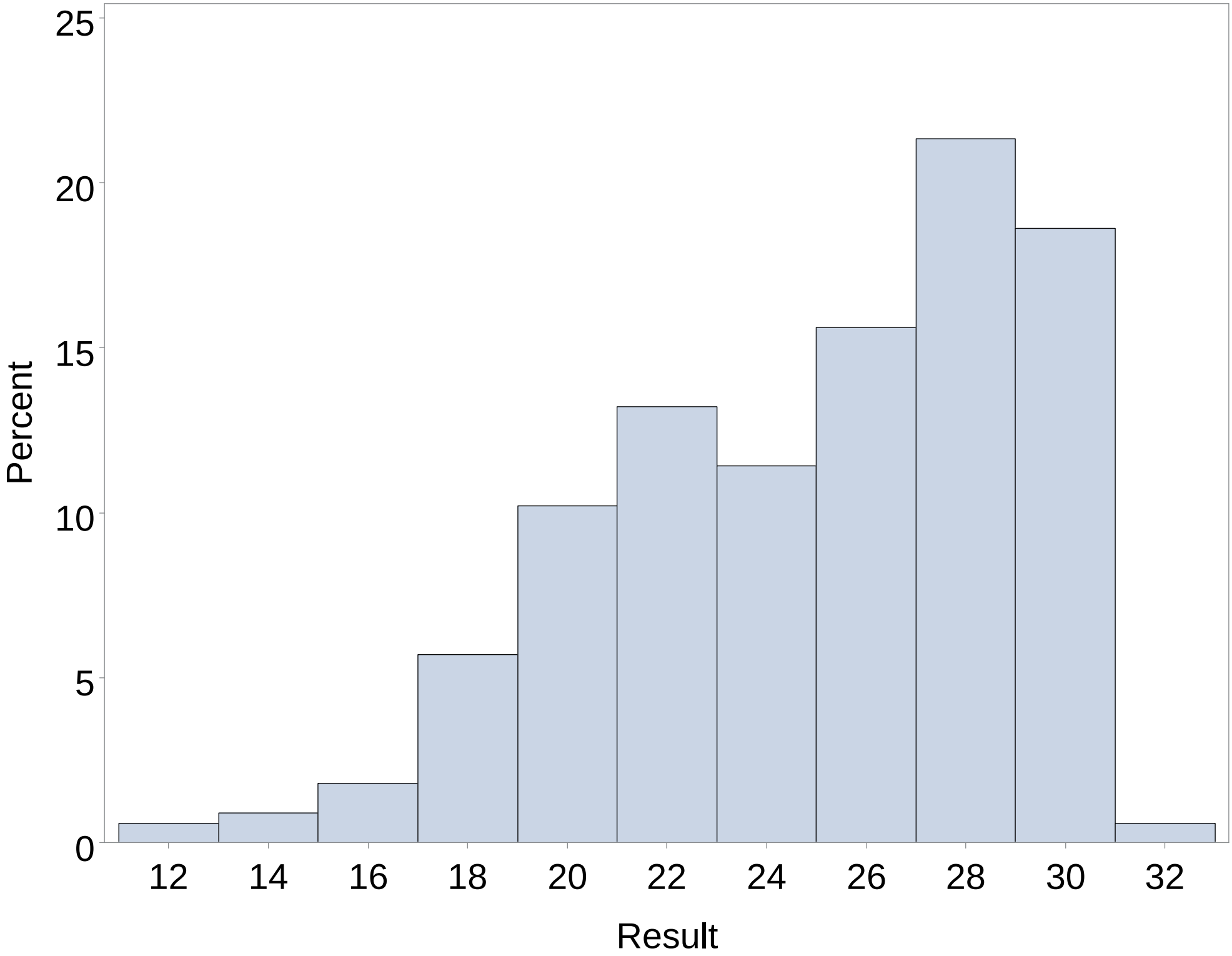
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	109.7419	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.3333
99%	30.8000
95%	30.3333
90%	29.7000
75% Q3	28.4600
50% Median	25.8400
25% Q1	21.9250
10%	19.1111
5%	17.4200
1%	14.5333
0% Min	11.7000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=14

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.7000	124390	30.7500	124255
12.9000	124401	30.8000	124445
13.8333	124284	30.9800	124218
14.5333	124296	31.3100	124182
14.8333	124414	31.3333	124254


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Percent
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24
26
28
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32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=15

Moments			
N	332	**Sum Weights**	332
Mean	25.1692917	**Sum Observations**	8356.20485
Std Deviation	4.21673417	**Variance**	17.780847
Skewness	-0.6551903	**Kurtosis**	-0.3212126
Uncorrected SS	216205.218	**Corrected SS**	5885.46037
Coeff Variation	16.7534876	**Std Error Mean**	0.23142335

Basic Statistical Measures			
Location		**Variability**	
Mean	25.16929	**Std Deviation**	4.21673
Median	26.05000	**Variance**	17.78085
Mode	27.60000	**Range**	20.08611
		Interquartile Range	6.48615

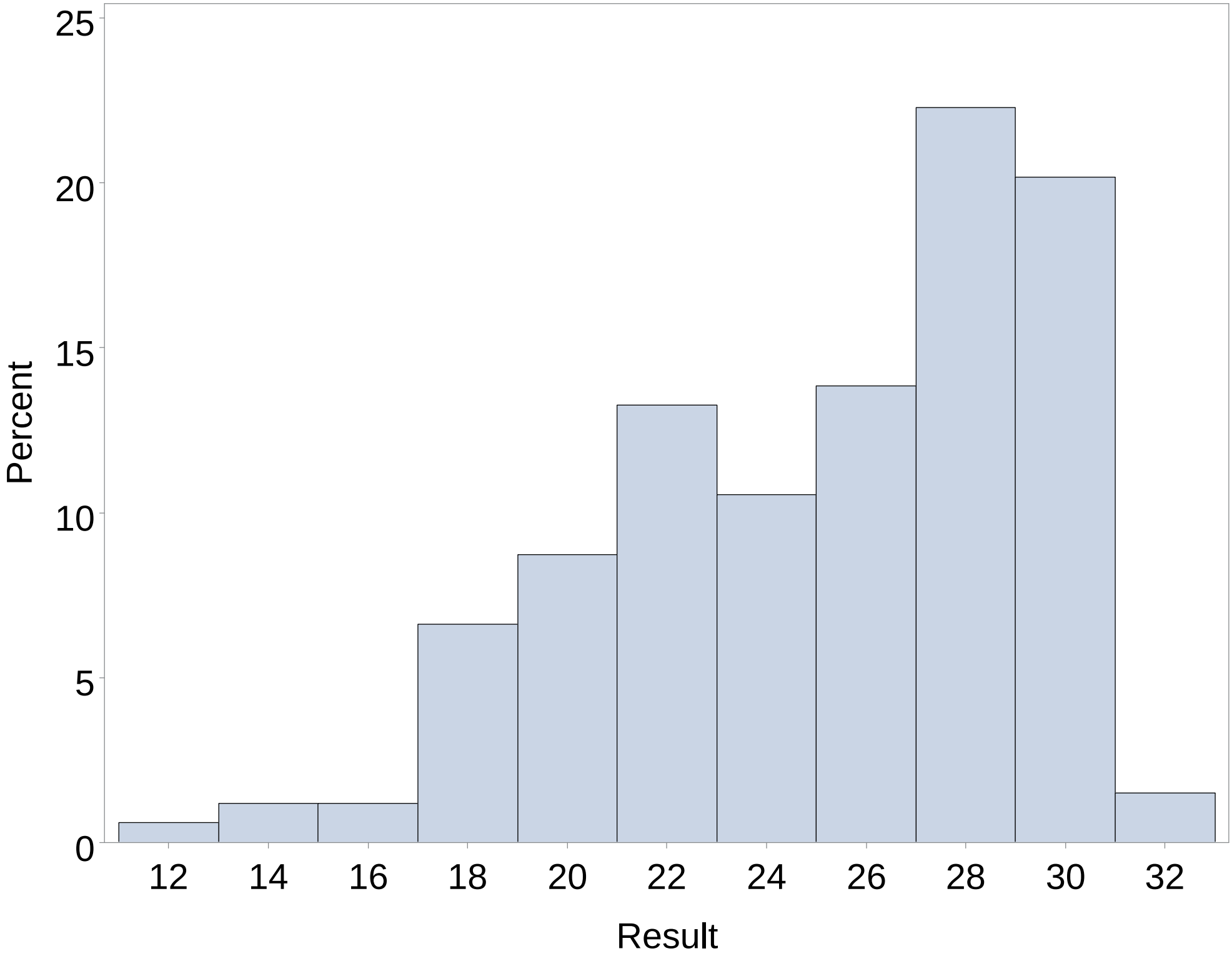
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	108.7587	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	31.6750
99%	31.3556
95%	30.4000
90%	29.9333
75% Q3	28.6514
50% Median	26.0500
25% Q1	22.1653
10%	19.1500
5%	17.6000
1%	14.1000
0% Min	11.5889

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=15

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.5889	124722	31.1000	124588
12.9333	124617	31.3556	124551
13.2444	124733	31.4000	124813
14.1000	124746	31.6250	124515
14.1500	124628	31.6750	124587


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Percent
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Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=16

Moments			
N	333	**Sum Weights**	333
Mean	25.3129395	**Sum Observations**	8429.20884
Std Deviation	4.3143958	**Variance**	18.6140111
Skewness	-0.660957	**Kurtosis**	-0.2914384
Uncorrected SS	219547.905	**Corrected SS**	6179.8517
Coeff Variation	17.0442307	**Std Error Mean**	0.23642743

Basic Statistical Measures			
Location		**Variability**	
Mean	25.31294	**Std Deviation**	4.31440
Median	26.30000	**Variance**	18.61401
Mode	18.55000	**Range**	20.05000
		Interquartile Range	6.60000

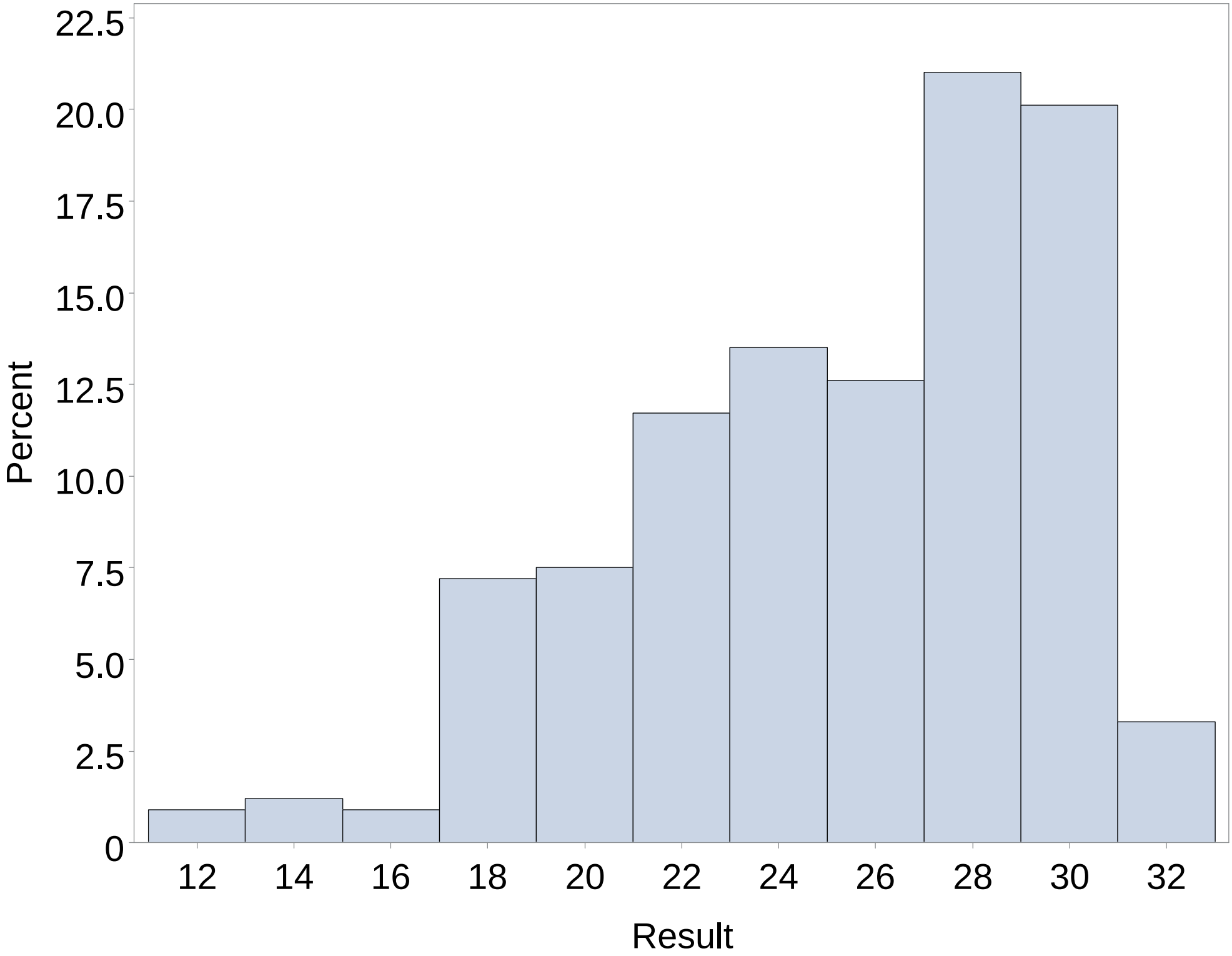
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	107.0643	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.2500
99%	31.5500
95%	30.6000
90%	30.1500
75% Q3	28.8750
50% Median	26.3000
25% Q1	22.2750
10%	18.9600
5%	17.6600
1%	13.9333
0% Min	12.2000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=16

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.2000	124949	31.3000	124870
12.5714	125055	31.5500	125146
12.5750	125066	32.0571	124883
13.9333	124961	32.2500	124847
14.1000	125079	32.2500	124919


22.5
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
Percent
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=17

Moments			
N	333	**Sum Weights**	333
Mean	25.3993522	**Sum Observations**	8457.98429
Std Deviation	4.39576069	**Variance**	19.322712
Skewness	-0.6490092	**Kurtosis**	-0.286722
Uncorrected SS	221242.462	**Corrected SS**	6415.1404
Coeff Variation	17.3065858	**Std Error Mean**	0.2408862

Basic Statistical Measures			
Location		**Variability**	
Mean	25.39935	**Std Deviation**	4.39576
Median	26.32000	**Variance**	19.32271
Mode	23.30000	**Range**	20.33333
		Interquartile Range	6.65000

Note: The mode displayed is the smallest of 4 modes with a count of 3.

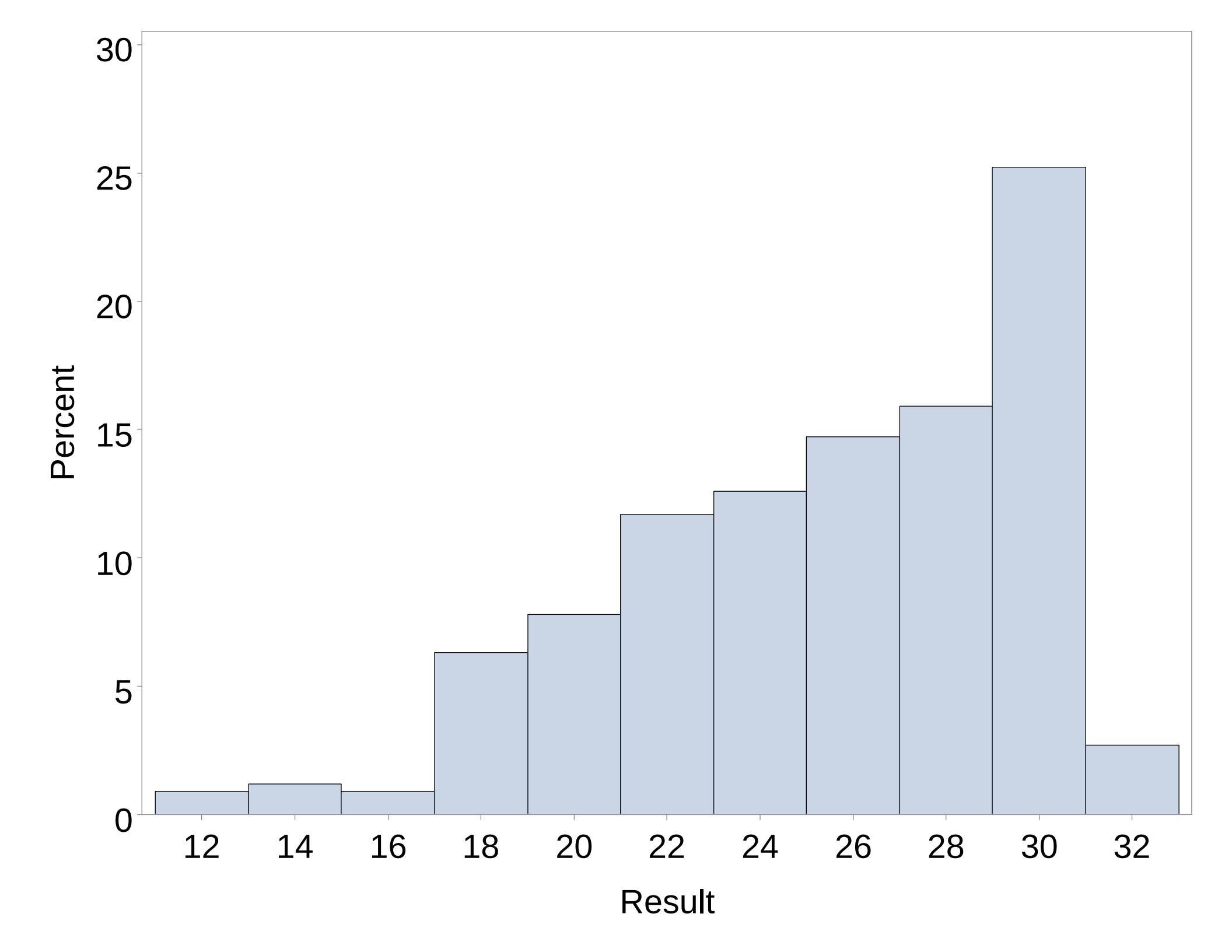
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	105.4413	**Pr > |t|**	<.0001
Sign	**M**	166.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27805.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.3000
99%	31.9333
95%	30.8250
90%	30.4000
75% Q3	29.1167
50% Median	26.3200
25% Q1	22.4667
10%	19.1250
5%	17.6800
1%	13.6000
0% Min	11.9667

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=17

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.9667	125282	31.7000	125394
12.2333	125399	31.9333	125180
12.7000	125388	32.0500	125479
13.6000	125294	32.2250	125216
14.2000	125377	32.3000	125252


30
25
20
15
10
5
0
Percent
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=18

Moments			
N	330	**Sum Weights**	330
Mean	25.2723353	**Sum Observations**	8339.87063
Std Deviation	4.3676323	**Variance**	19.0762119
Skewness	-0.6115856	**Kurtosis**	-0.3679231
Uncorrected SS	217044.08	**Corrected SS**	6276.07372
Coeff Variation	17.2822664	**Std Error Mean**	0.24043025

Basic Statistical Measures			
Location		**Variability**	
Mean	25.27234	**Std Deviation**	4.36763
Median	26.10536	**Variance**	19.07621
Mode	29.43333	**Range**	21.48095
		Interquartile Range	6.77333

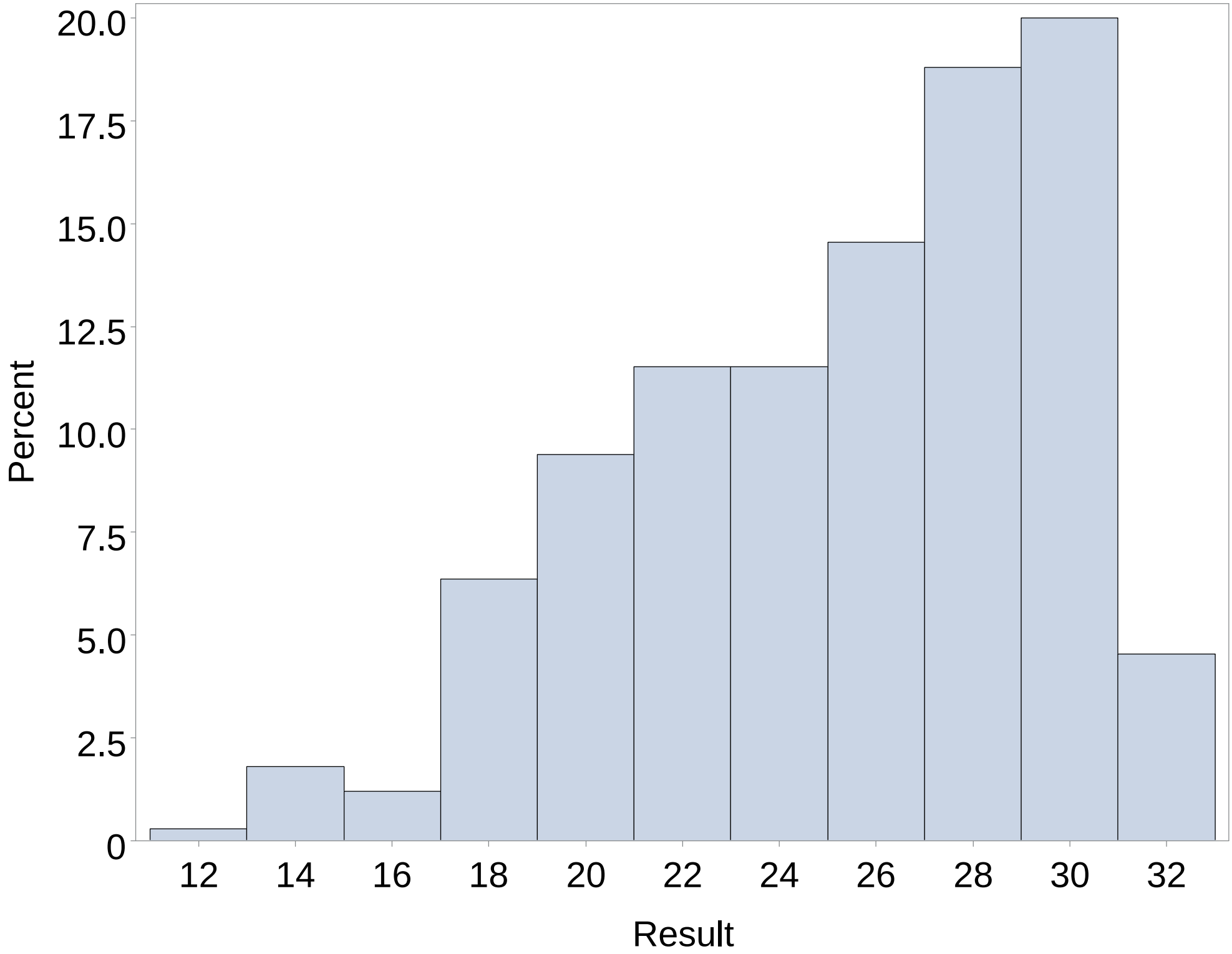
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	105.113	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.8667
99%	31.5333
95%	30.9500
90%	30.3078
75% Q3	28.9333
50% Median	26.1054
25% Q1	22.1600
10%	19.0500
5%	17.6500
1%	14.4500
0% Min	11.3857

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=18

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
11.3857	125719	31.5250	125573
13.0571	125730	31.5333	125773
13.2000	125613	31.9800	125796
14.4500	125625	32.0000	125548
14.6857	125743	32.8667	125584


20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0
Percent
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=19

Moments			
N	332	**Sum Weights**	332
Mean	25.4396983	**Sum Observations**	8445.97984
Std Deviation	4.4449464	**Variance**	19.7575485
Skewness	-0.6170564	**Kurtosis**	-0.3894607
Uncorrected SS	221402.928	**Corrected SS**	6539.74854
Coeff Variation	17.4724808	**Std Error Mean**	0.24394813

Basic Statistical Measures			
Location		**Variability**	
Mean	25.43970	**Std Deviation**	4.44495
Median	26.45750	**Variance**	19.75755
Mode	30.00000	**Range**	20.22333
		Interquartile Range	7.04167

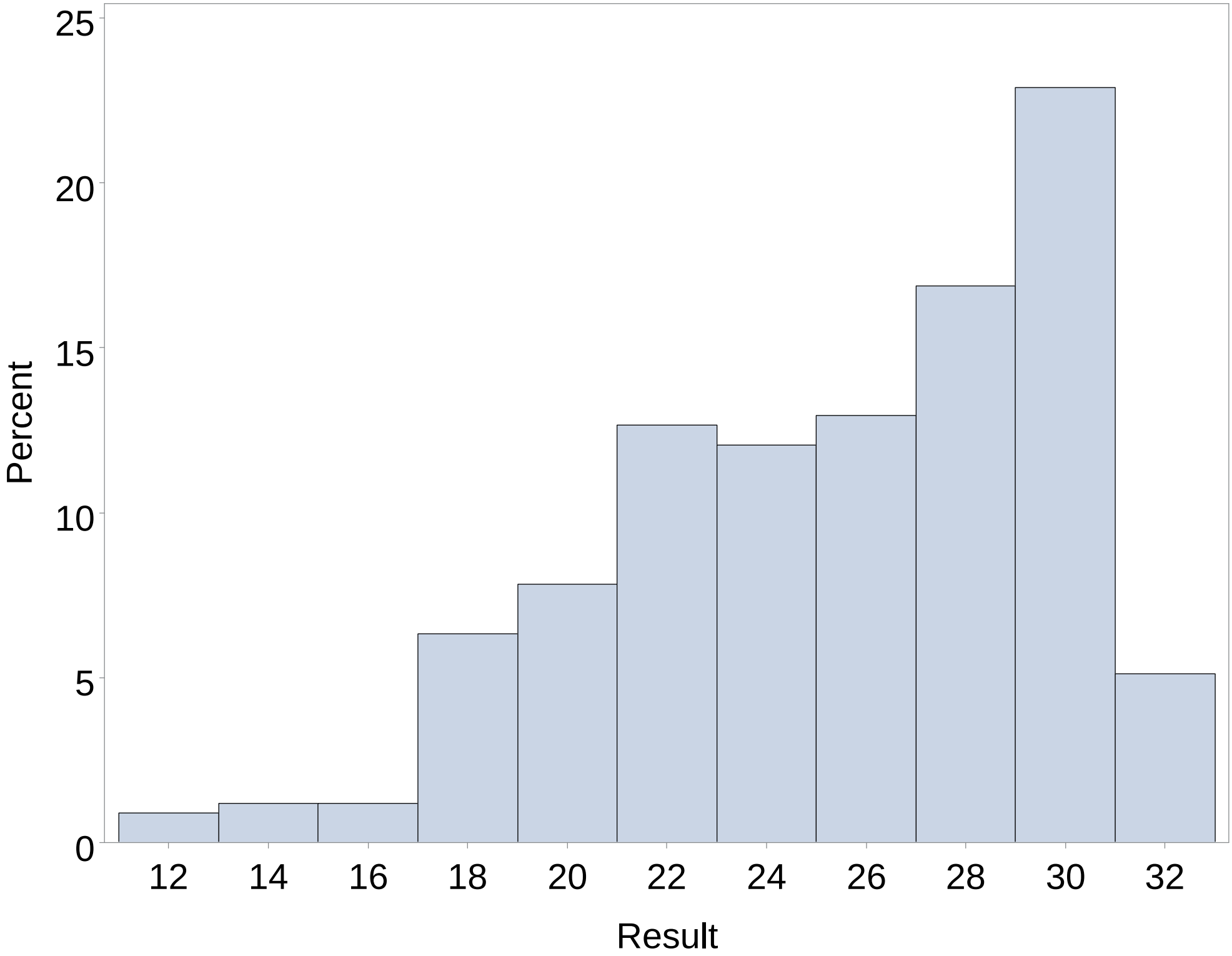
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	104.2832	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.3400
99%	31.6667
95%	31.0000
90%	30.5000
75% Q3	29.3417
50% Median	26.4575
25% Q1	22.3000
10%	19.0500
5%	17.9083
1%	14.0000
0% Min	12.1167

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=19

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
12.1167	125945	31.5333	126056
12.3667	126061	31.6667	126021
12.6667	126050	31.9200	125915
14.0000	125957	32.2750	125843
14.2000	126039	32.3400	125879


25
20
15
10
5
0
Percent
12
14
16
18
20
22
24
26
28
30
32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=22

Moments			
N	1	**Sum Weights**	1
Mean	26.1	**Sum Observations**	26.1
Std Deviation	.	**Variance**	.
Skewness	.	**Kurtosis**	.
Uncorrected SS	681.21	**Corrected SS**	0
Coeff Variation	.	**Std Error Mean**	.

Basic Statistical Measures			
Location		**Variability**	
Mean	26.10000	**Std Deviation**	.
Median	26.10000	**Variance**	.
Mode	26.10000	**Range**	0
		Interquartile Range	0

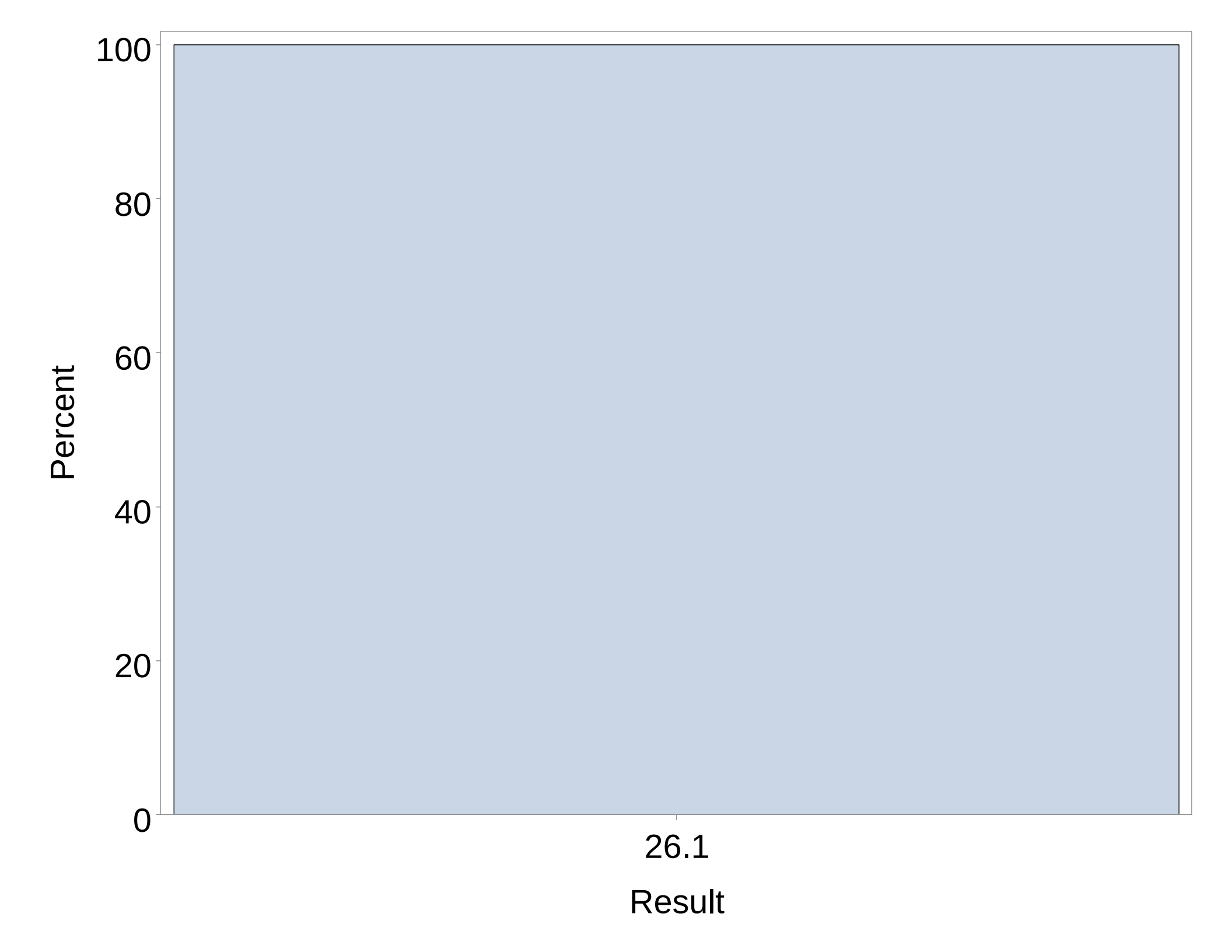
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	.	**Pr > |t|**	.
Sign	**M**	0.5	**Pr >= |M|**	1.0000
Signed Rank	**S**	0.5	**Pr >= |S|**	1.0000

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	26.1
99%	26.1
95%	26.1
90%	26.1
75% Q3	26.1
50% Median	26.1
25% Q1	26.1
10%	26.1
5%	26.1
1%	26.1
0% Min	26.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Water Column Average Temperature (deg C) STATION=22

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
26.1	126158	26.1	126158


100
80
60
40
20
0
Percent
26.1
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=1

Moments			
N	329	**Sum Weights**	329
Mean	1.28068389	**Sum Observations**	421.345
Std Deviation	0.39632108	**Variance**	0.1570704
Skewness	1.26337674	**Kurtosis**	3.22127529
Uncorrected SS	591.128845	**Corrected SS**	51.5190911
Coeff Variation	30.9460504	**Std Error Mean**	0.02184989

Basic Statistical Measures			
Location		**Variability**	
Mean	1.280684	**Std Deviation**	0.39632
Median	1.240000	**Variance**	0.15707
Mode	1.200000	**Range**	2.84000
		Interquartile Range	0.50500

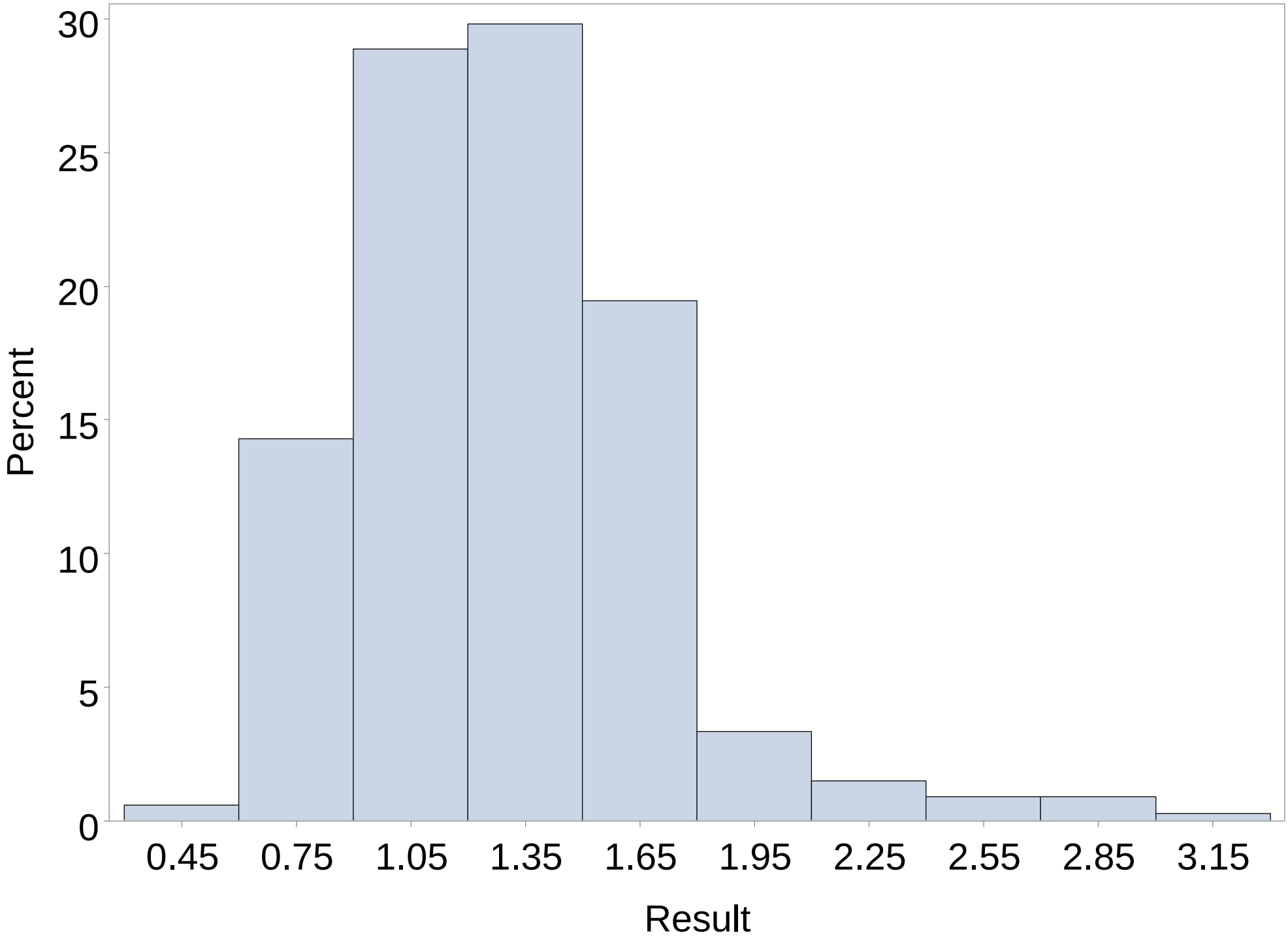
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.61283	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.250
99%	2.700
95%	2.000
90%	1.701
75% Q3	1.500
50% Median	1.240
25% Q1	0.995
10%	0.840
5%	0.770
1%	0.641
0% Min	0.410

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.410	126433	2.550	126237
0.496	126317	2.700	126476
0.640	126394	2.852	126176
0.641	126351	2.900	126469
0.696	126361	3.250	126285


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=1
Percent
30
25
20
15
10
5
0
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=2

Moments			
N	330	**Sum Weights**	330
Mean	1.01495758	**Sum Observations**	334.936
Std Deviation	0.32273171	**Variance**	0.10415576
Skewness	1.28706152	**Kurtosis**	3.59159475
Uncorrected SS	374.213074	**Corrected SS**	34.2672434
Coeff Variation	31.7975564	**Std Error Mean**	0.0177658

Basic Statistical Measures			
Location		**Variability**	
Mean	1.014958	**Std Deviation**	0.32273
Median	0.936000	**Variance**	0.10416
Mode	1.100000	**Range**	2.66700
		Interquartile Range	0.41400

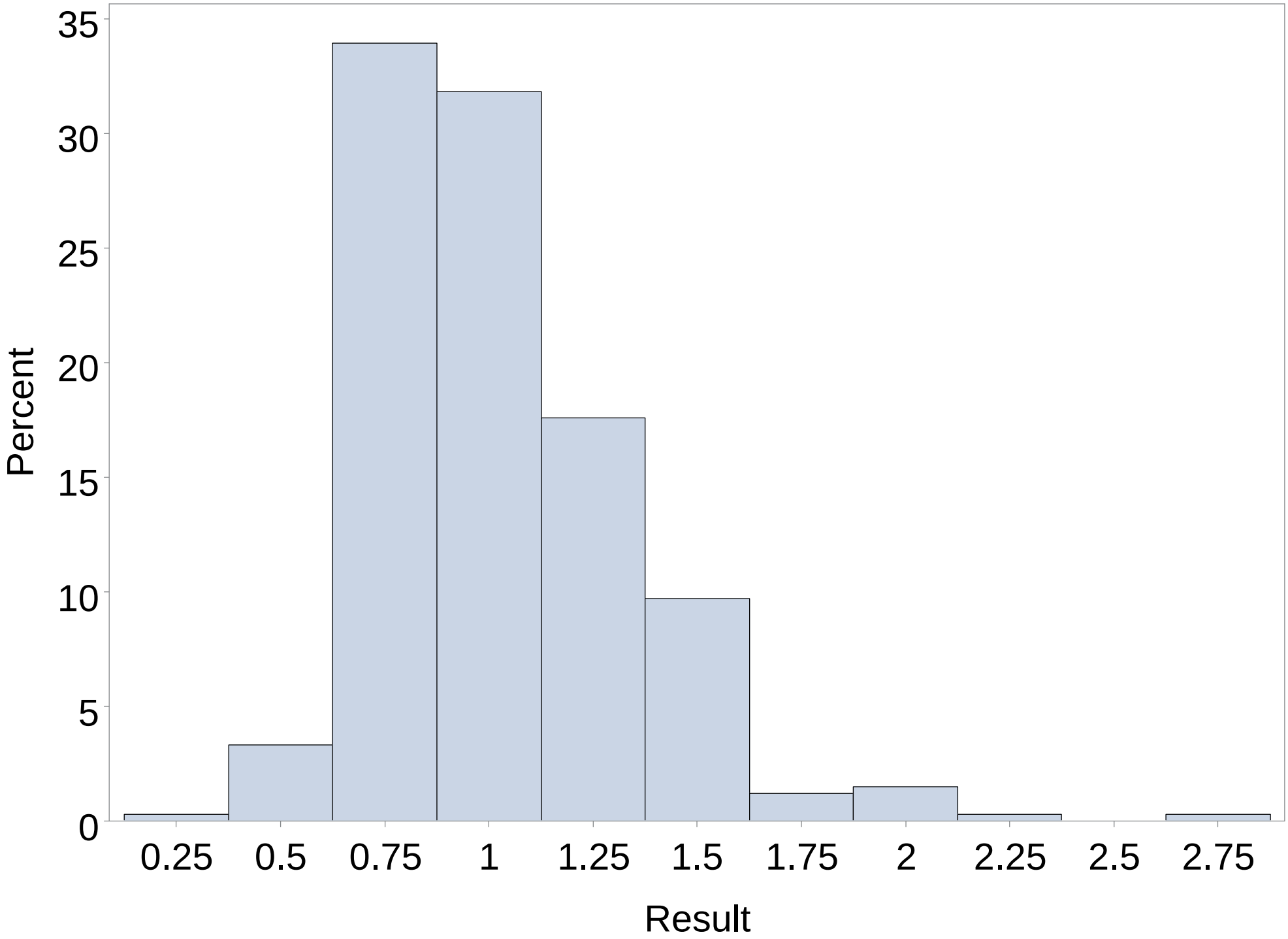
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	57.12987	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.8300
99%	2.0000
95%	1.5700
90%	1.4550
75% Q3	1.2000
50% Median	0.9360
25% Q1	0.7860
10%	0.6795
5%	0.6400
1%	0.4360
0% Min	0.1630

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.163	126676	2.00	126754
0.383	126658	2.00	126799
0.413	126586	2.08	126614
0.436	126646	2.30	126743
0.490	126724	2.83	126566


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=2
Percent
35
30
25
20
15
10
5
0
0.25
0.5
0.75
1
1.25
1.5
1.75
2
2.25
2.5
2.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=3

Moments			
N	331	**Sum Weights**	331
Mean	1.18752266	**Sum Observations**	393.07
Std Deviation	0.34531055	**Variance**	0.11923938
Skewness	0.7618518	**Kurtosis**	3.02243869
Uncorrected SS	506.128526	**Corrected SS**	39.3489946
Coeff Variation	29.0782285	**Std Error Mean**	0.01897998

Basic Statistical Measures			
Location		**Variability**	
Mean	1.187523	**Std Deviation**	0.34531
Median	1.180000	**Variance**	0.11924
Mode	1.200000	**Range**	2.75000
		Interquartile Range	0.42000

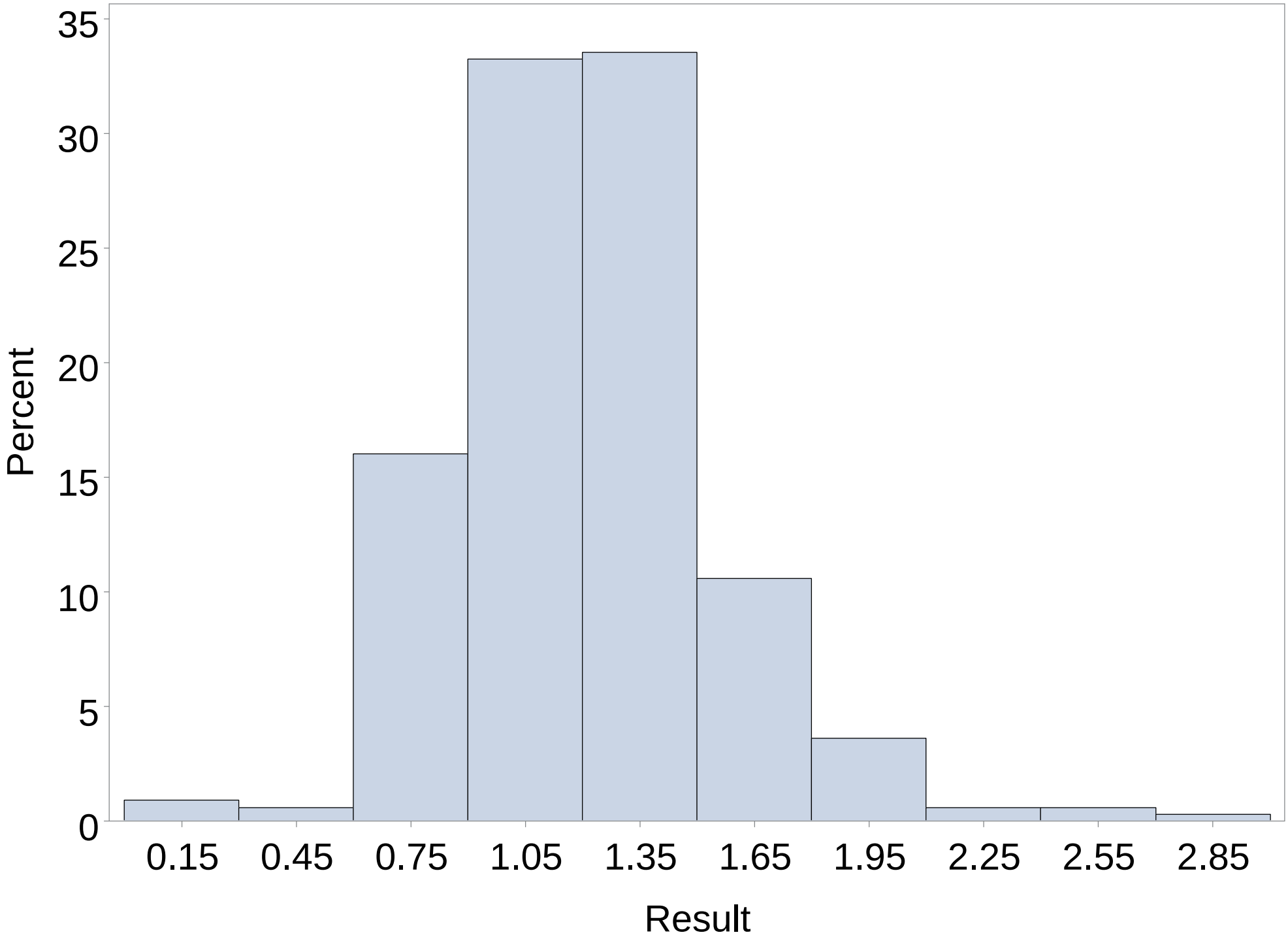
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	62.5671	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.800
99%	2.300
95%	1.800
90%	1.590
75% Q3	1.380
50% Median	1.180
25% Q1	0.960
10%	0.830
5%	0.740
1%	0.389
0% Min	0.050

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	127070	2.290	126896
0.054	127024	2.300	127130
0.116	126988	2.481	126835
0.389	127065	2.600	127008
0.559	126976	2.800	127090


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=3
Percent
35
30
25
20
15
10
5
0
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=4

Moments			
N	330	**Sum Weights**	330
Mean	1.2304303	**Sum Observations**	406.042
Std Deviation	0.38011029	**Variance**	0.14448383
Skewness	1.91959311	**Kurtosis**	11.1150824
Uncorrected SS	547.141562	**Corrected SS**	47.5351809
Coeff Variation	30.8924682	**Std Error Mean**	0.02092438

Basic Statistical Measures			
Location		**Variability**	
Mean	1.230430	**Std Deviation**	0.38011
Median	1.200000	**Variance**	0.14448
Mode	1.100000	**Range**	4.10600
		Interquartile Range	0.41000

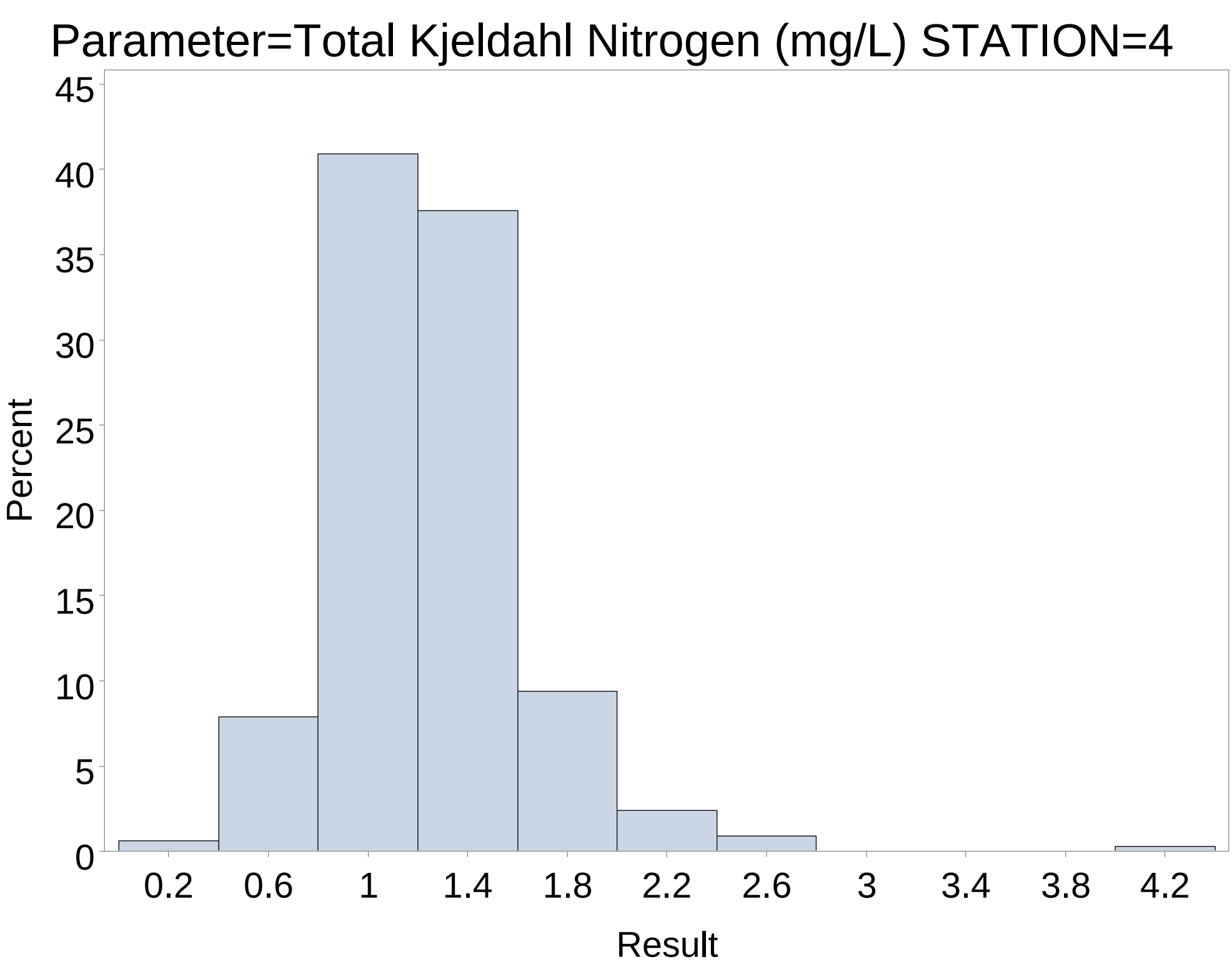
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.80366	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.1600
99%	2.4700
95%	1.8500
90%	1.6350
75% Q3	1.4000
50% Median	1.2000
25% Q1	0.9900
10%	0.8315
5%	0.7600
1%	0.6000
0% Min	0.0540

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.054	127354	2.330	127275
0.250	127419	2.470	127474
0.589	127307	2.474	127166
0.600	127258	2.610	127472
0.620	127343	4.160	127221


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=4
Percent
45
40
35
30
25
20
15
10
5
0
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
4.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=5

Moments			
N	331	**Sum Weights**	331
Mean	1.1890997	**Sum Observations**	393.592
Std Deviation	0.36817191	**Variance**	0.13555056
Skewness	2.64110451	**Kurtosis**	17.9546844
Uncorrected SS	512.751812	**Corrected SS**	44.7316837
Coeff Variation	30.9622408	**Std Error Mean**	0.02023656

Basic Statistical Measures			
Location		**Variability**	
Mean	1.189100	**Std Deviation**	0.36817
Median	1.138000	**Variance**	0.13555
Mode	1.200000	**Range**	4.27000
		Interquartile Range	0.37700

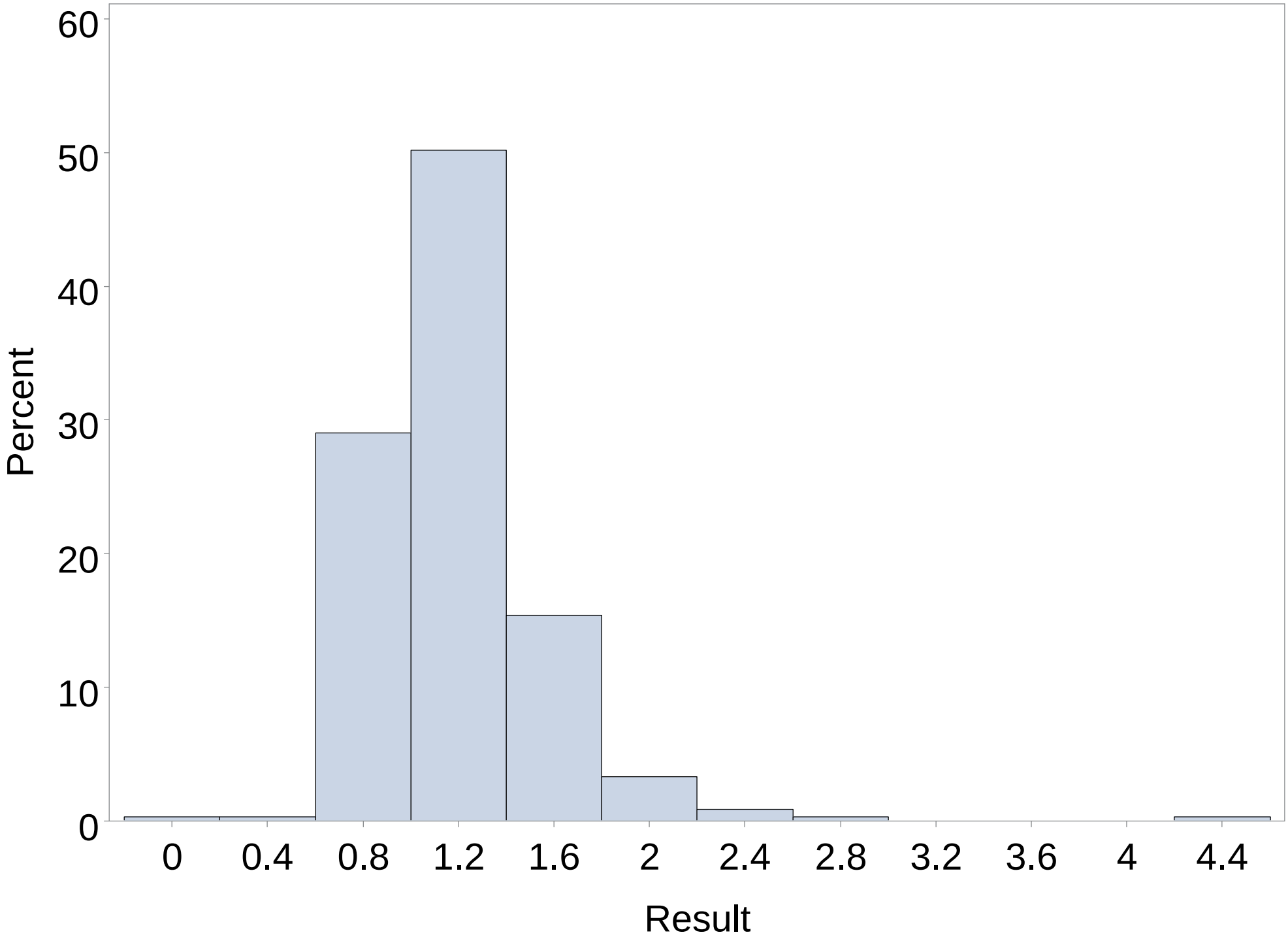
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.75998	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.400
99%	2.390
95%	1.790
90%	1.600
75% Q3	1.340
50% Median	1.138
25% Q1	0.963
10%	0.820
5%	0.740
1%	0.610
0% Min	0.130

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.130	127699	2.20	127605
0.550	127731	2.39	127805
0.610	127744	2.43	127803
0.610	127670	2.65	127798
0.649	127637	4.40	127724


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=5
Percent
60
50
40
30
20
10
0
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
4.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=6

Moments			
N	331	**Sum Weights**	331
Mean	1.15479758	**Sum Observations**	382.238
Std Deviation	0.36223336	**Variance**	0.131213
Skewness	0.80854344	**Kurtosis**	2.48832189
Uncorrected SS	484.70781	**Corrected SS**	43.3002914
Coeff Variation	31.3676926	**Std Error Mean**	0.01991015

Basic Statistical Measures			
Location		**Variability**	
Mean	1.154798	**Std Deviation**	0.36223
Median	1.100000	**Variance**	0.13121
Mode	1.100000	**Range**	2.67700
		Interquartile Range	0.44600

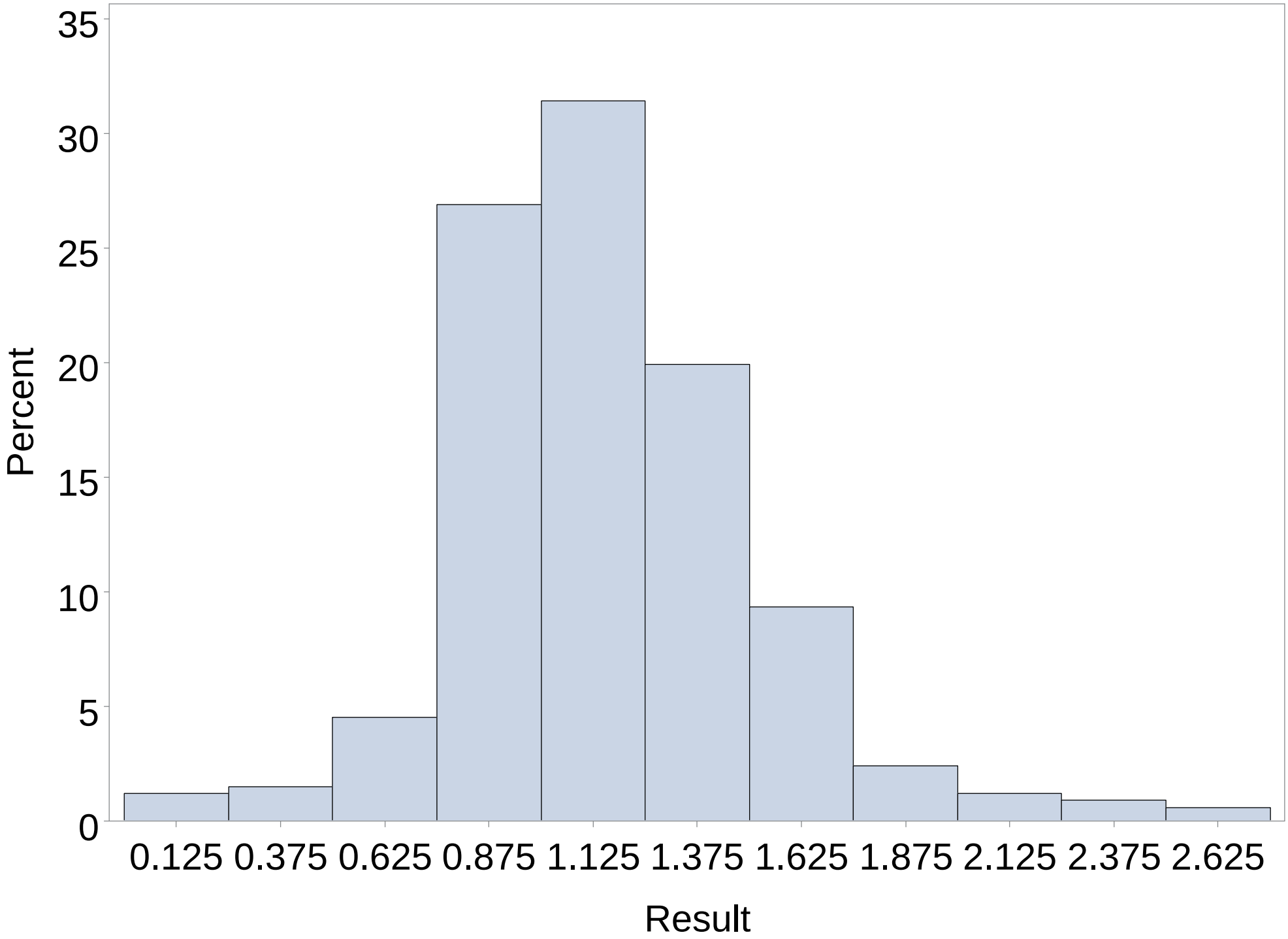
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	58.00046	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.727
99%	2.280
95%	1.790
90%	1.592
75% Q3	1.370
50% Median	1.100
25% Q1	0.924
10%	0.800
5%	0.690
1%	0.240
0% Min	0.050

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.05	128032	2.250	128136
0.16	128030	2.280	128129
0.19	128004	2.360	127936
0.24	128048	2.640	127914
0.42	128062	2.727	127827


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=6
Percent
35
30
25
20
15
10
5
0
0.125
0.375
0.625
0.875
1.125
1.375
1.625
1.875
2.125
2.375
2.625
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=7

Moments			
N	330	**Sum Weights**	330
Mean	1.16353939	**Sum Observations**	383.968
Std Deviation	0.40298499	**Variance**	0.1623969
Skewness	1.35730457	**Kurtosis**	9.12697745
Uncorrected SS	500.190474	**Corrected SS**	53.42858
Coeff Variation	34.6344085	**Std Error Mean**	0.02218359

Basic Statistical Measures			
Location		**Variability**	
Mean	1.163539	**Std Deviation**	0.40298
Median	1.141000	**Variance**	0.16240
Mode	1.200000	**Range**	3.99800
		Interquartile Range	0.45900

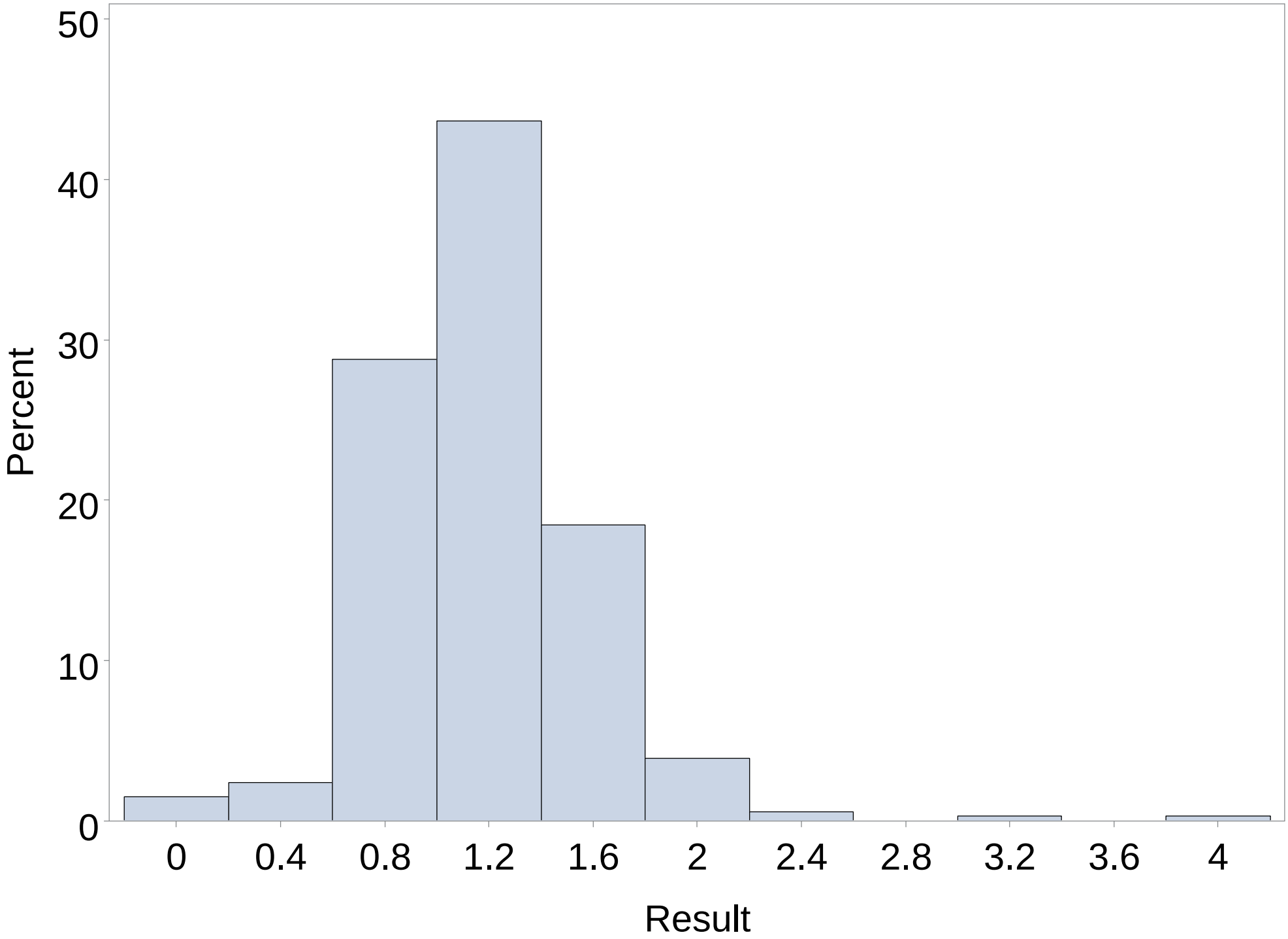
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	52.45045	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27307.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.0480
99%	2.2100
95%	1.8000
90%	1.5820
75% Q3	1.3790
50% Median	1.1410
25% Q1	0.9200
10%	0.7585
5%	0.6590
1%	0.0600
0% Min	0.0500

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	128371	2.170	128219
0.050	128364	2.210	128269
0.054	128323	2.270	128464
0.060	128342	3.040	128267
0.085	128335	4.048	128158


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=7
Percent
50
40
30
20
10
0
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=8

Moments			
N	331	**Sum Weights**	331
Mean	1.17330514	**Sum Observations**	388.364
Std Deviation	0.41425758	**Variance**	0.17160934
Skewness	1.19403506	**Kurtosis**	5.79993912
Uncorrected SS	512.300558	**Corrected SS**	56.6310822
Coeff Variation	35.306892	**Std Error Mean**	0.02276966

Basic Statistical Measures			
Location		**Variability**	
Mean	1.173305	**Std Deviation**	0.41426
Median	1.130000	**Variance**	0.17161
Mode	1.100000	**Range**	3.55000
		Interquartile Range	0.52000

Note: The mode displayed is the smallest of 2 modes with a count of 15.

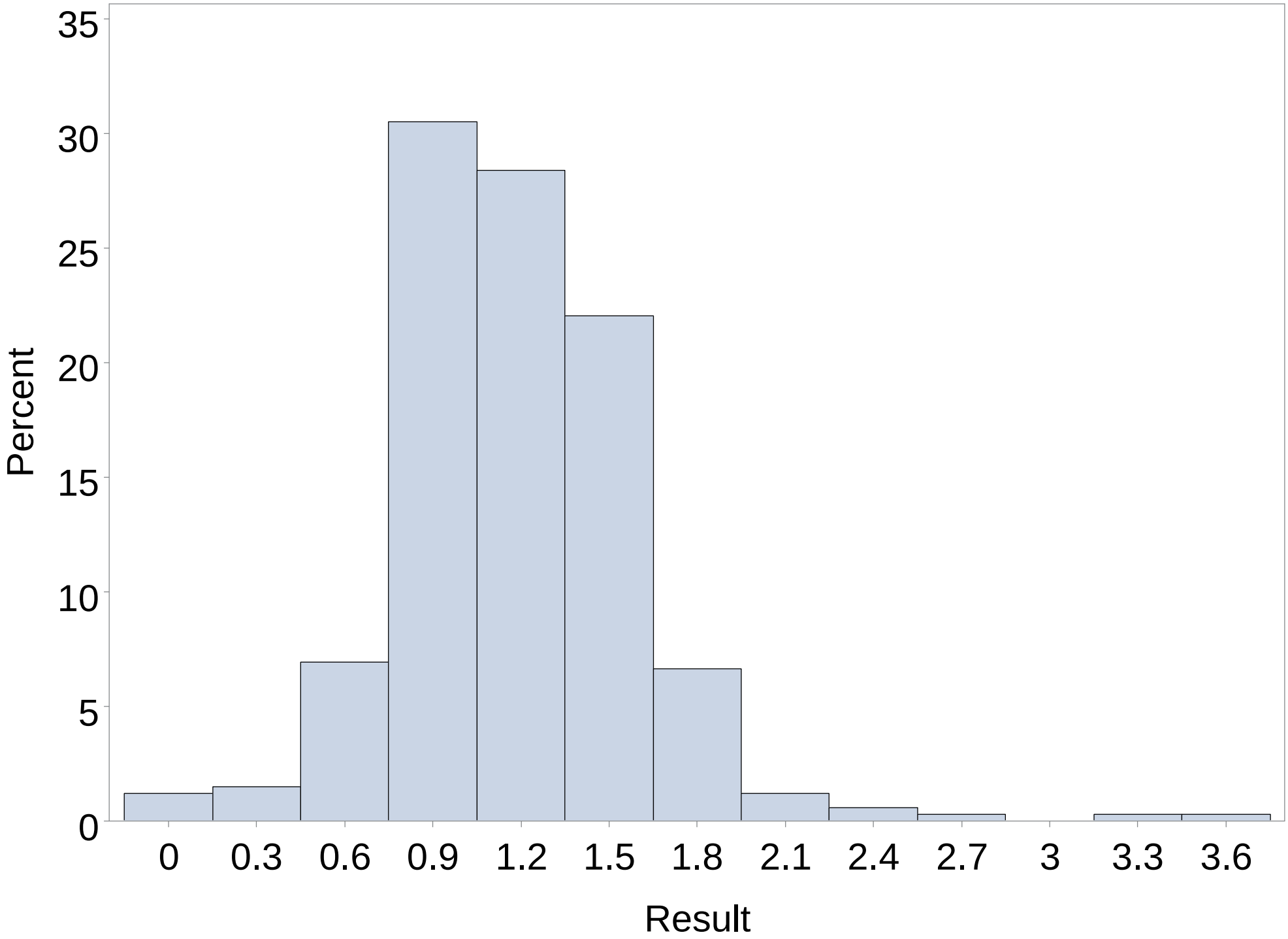
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	51.52933	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.600
99%	2.432
95%	1.800
90%	1.633
75% Q3	1.400
50% Median	1.130
25% Q1	0.880
10%	0.753
5%	0.674
1%	0.085
0% Min	0.050

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.050	128723	2.260	128599
0.060	128673	2.432	128488
0.085	128666	2.670	128633
0.085	128665	3.380	128549
0.337	128618	3.600	128562


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=8
Percent
35
30
25
20
15
10
5
0
0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
3.3
3.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=9

Moments			
N	329	**Sum Weights**	329
Mean	1.13560182	**Sum Observations**	373.613
Std Deviation	0.49592706	**Variance**	0.24594365
Skewness	2.44470831	**Kurtosis**	14.2342822
Uncorrected SS	504.945121	**Corrected SS**	80.6695168
Coeff Variation	43.670858	**Std Error Mean**	0.02734134

Basic Statistical Measures			
Location		**Variability**	
Mean	1.135602	**Std Deviation**	0.49593
Median	1.090000	**Variance**	0.24594
Mode	1.200000	**Range**	4.69000
		Interquartile Range	0.55000

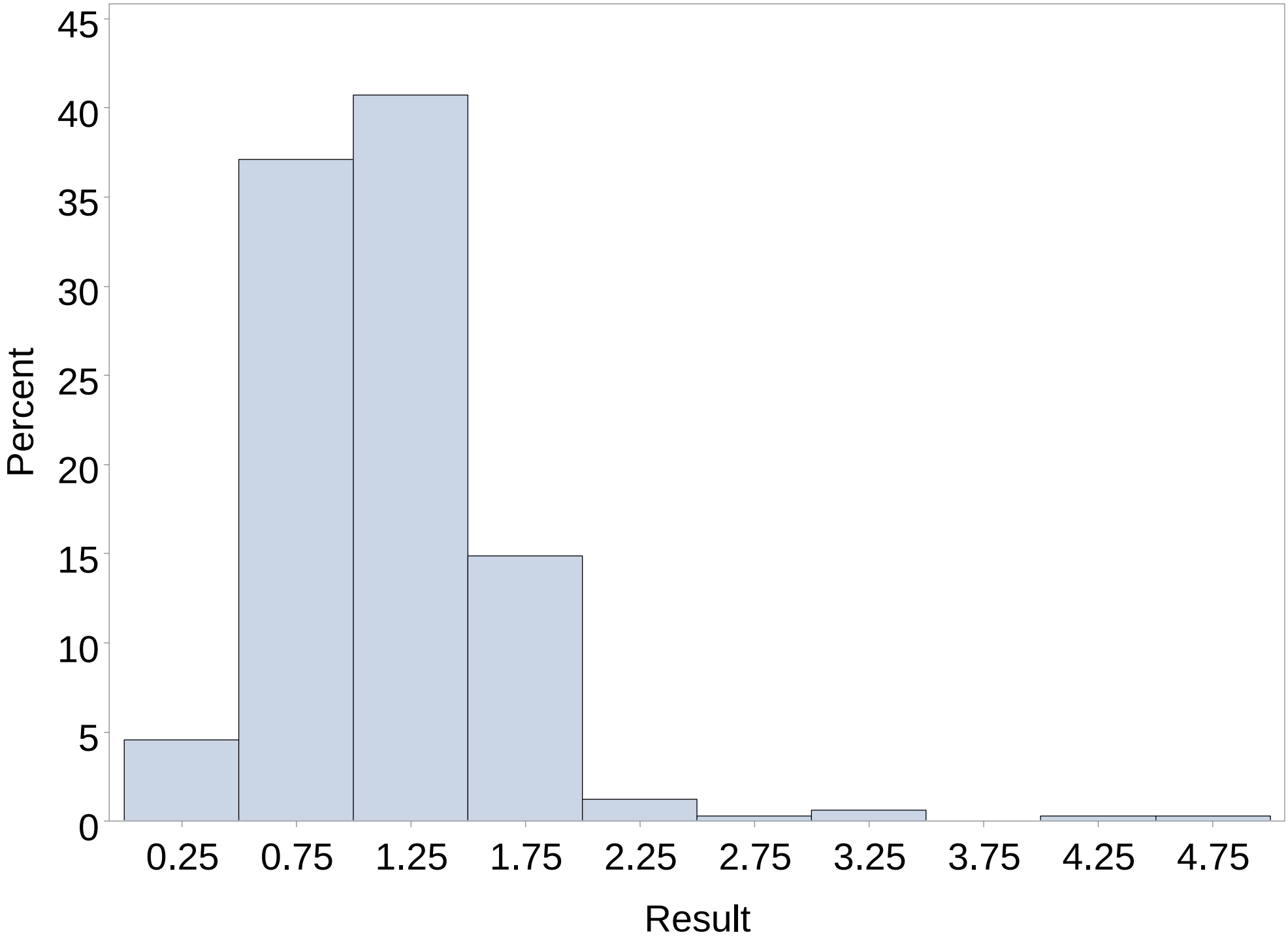
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	41.53424	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27142.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.744
99%	3.000
95%	1.800
90%	1.600
75% Q3	1.380
50% Median	1.090
25% Q1	0.830
10%	0.720
5%	0.574
1%	0.085
0% Min	0.054

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.054	128994	2.552	128833
0.054	128986	3.000	128946
0.060	129003	3.450	128879
0.085	128996	4.300	128892
0.085	128995	4.744	128834


Parameter=Total Kjeldahl Nitrogen (mg/L) STATION=9
Percent
45
40
35
30
25
20
15
10
5
0
0.25
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=1

Moments			
N	325	**Sum Weights**	325
Mean	1.47552	**Sum Observations**	479.544
Std Deviation	0.55729855	**Variance**	0.31058168
Skewness	0.09712625	**Kurtosis**	2.19871354
Uncorrected SS	808.205226	**Corrected SS**	100.628463
Coeff Variation	37.7696373	**Std Error Mean**	0.03091336

Basic Statistical Measures			
Location		**Variability**	
Mean	1.475520	**Std Deviation**	0.55730
Median	1.490000	**Variance**	0.31058
Mode	0.000000	**Range**	3.48000
		Interquartile Range	0.57000

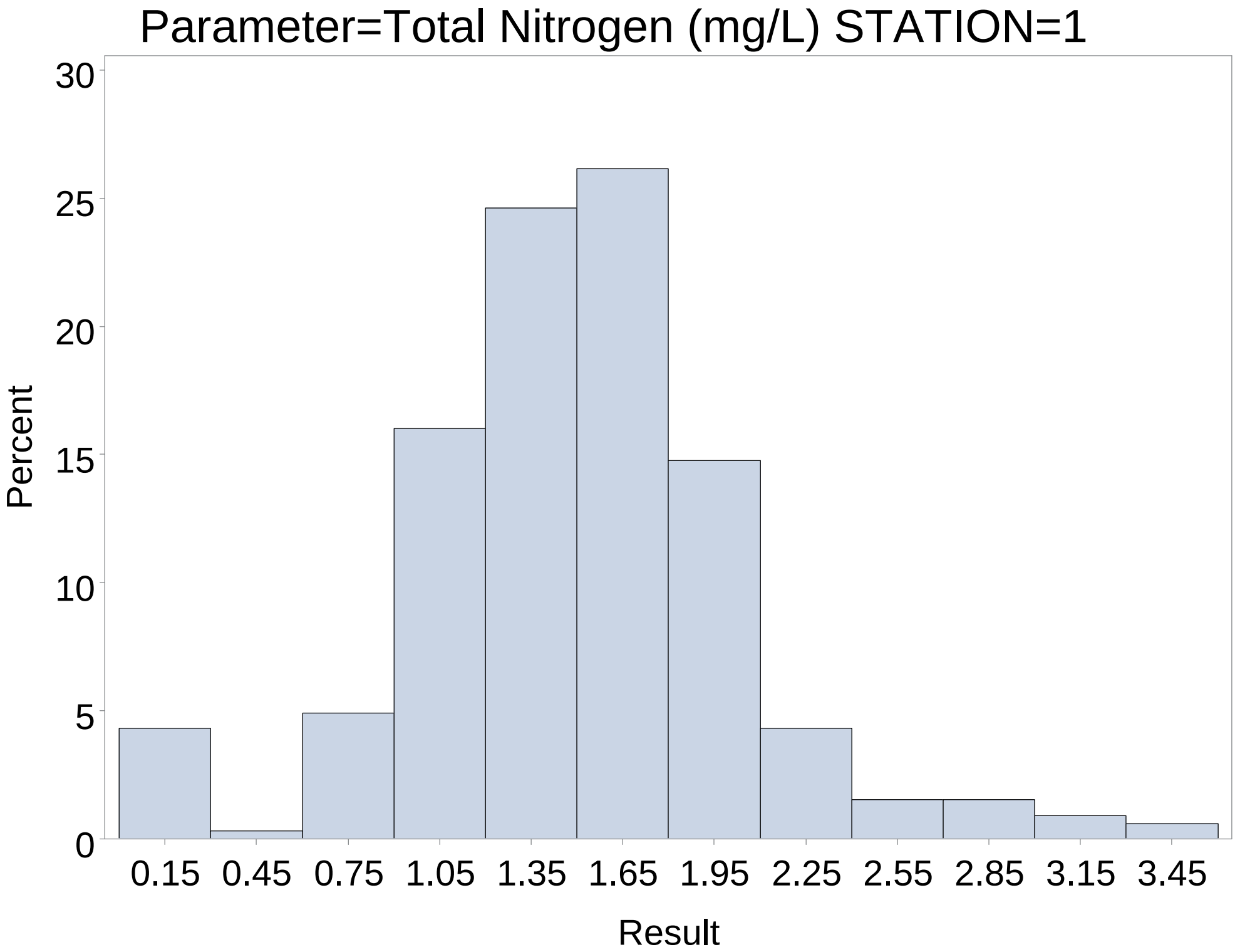
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	47.73082	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.48
99%	3.18
95%	2.32
90%	2.02
75% Q3	1.76
50% Median	1.49
25% Q1	1.19
10%	0.91
5%	0.69
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	129455	3.04	129209
0	129454	3.18	129437
0	129453	3.28	129317
0	129452	3.46	129257
0	129451	3.48	129255


Parameter=Total Nitrogen (mg/L) STATION=1
Percent
30
25
20
15
10
5
0
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
3.15
3.45
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=2

Moments			
N	324	**Sum Weights**	324
Mean	1.09496296	**Sum Observations**	354.768
Std Deviation	0.43349897	**Variance**	0.18792136
Skewness	0.19461668	**Kurtosis**	1.98635426
Uncorrected SS	449.15642	**Corrected SS**	60.6985996
Coeff Variation	39.5902865	**Std Error Mean**	0.02408328

Basic Statistical Measures			
Location		**Variability**	
Mean	1.094963	**Std Deviation**	0.43350
Median	1.040000	**Variance**	0.18792
Mode	0.000000	**Range**	2.94000
		Interquartile Range	0.52000

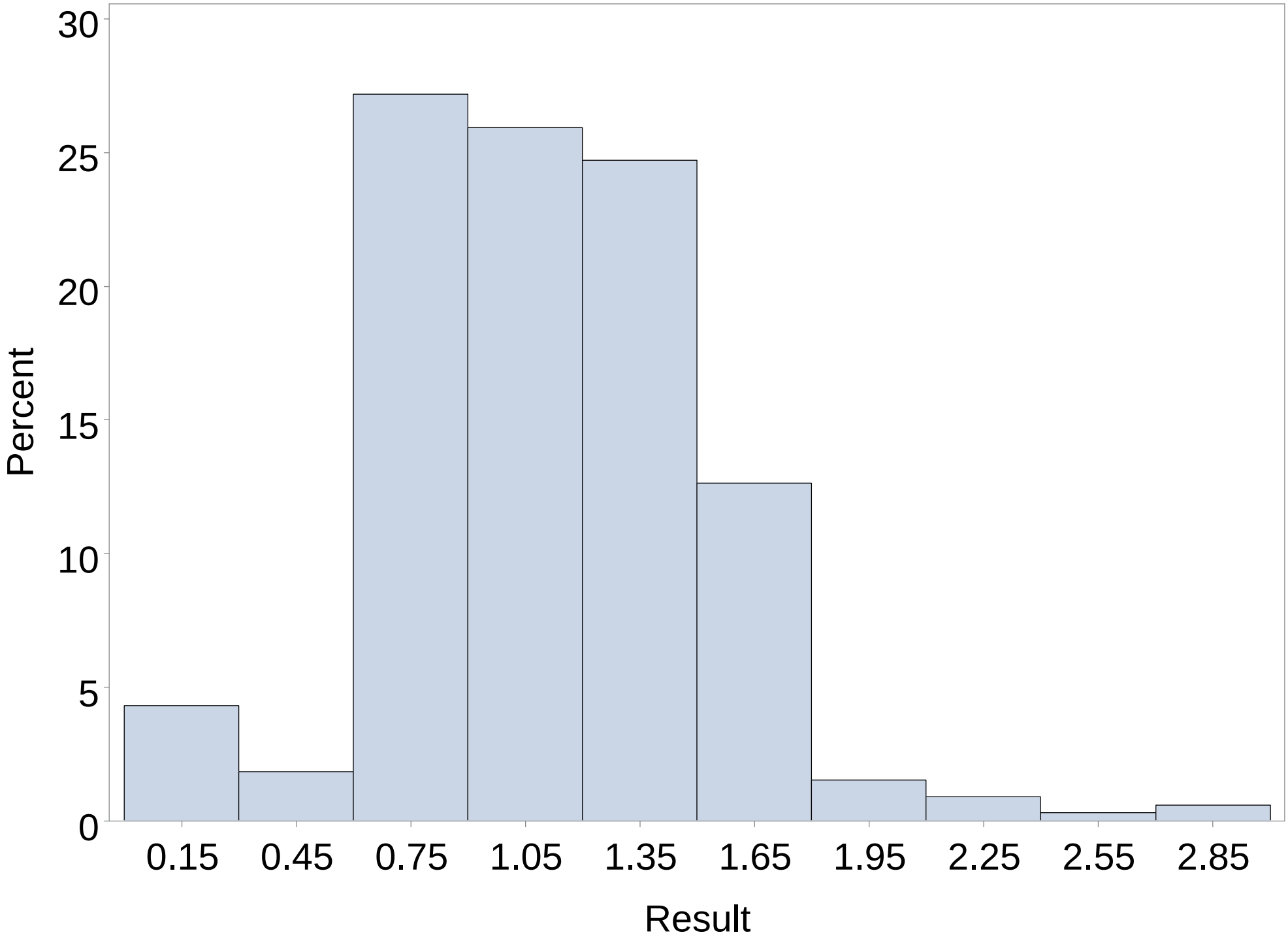
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	45.4657	**Pr > |t|**	<.0001
Sign	**M**	155	**Pr >= |M|**	<.0001
Signed Rank	**S**	24102.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.94
99%	2.27
95%	1.71
90%	1.60
75% Q3	1.36
50% Median	1.04
25% Q1	0.84
10%	0.69
5%	0.45
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	129779	2.23	129582
0	129778	2.27	129761
0	129777	2.40	129705
0	129776	2.77	129526
0	129775	2.94	129534


Parameter=Total Nitrogen (mg/L) STATION=2
Percent
30
25
20
15
10
5
0
0.15
0.45
0.75
1.05
1.35
1.65
1.95
2.25
2.55
2.85
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=3

Moments			
N	325	**Sum Weights**	325
Mean	1.23091385	**Sum Observations**	400.047
Std Deviation	0.45336694	**Variance**	0.20554159
Skewness	-0.2720742	**Kurtosis**	2.02577431
Uncorrected SS	559.018865	**Corrected SS**	66.5954736
Coeff Variation	36.8317364	**Std Error Mean**	0.02514827

Basic Statistical Measures			
Location		**Variability**	
Mean	1.230914	**Std Deviation**	0.45337
Median	1.250000	**Variance**	0.20554
Mode	0.000000	**Range**	3.05000
		Interquartile Range	0.50000

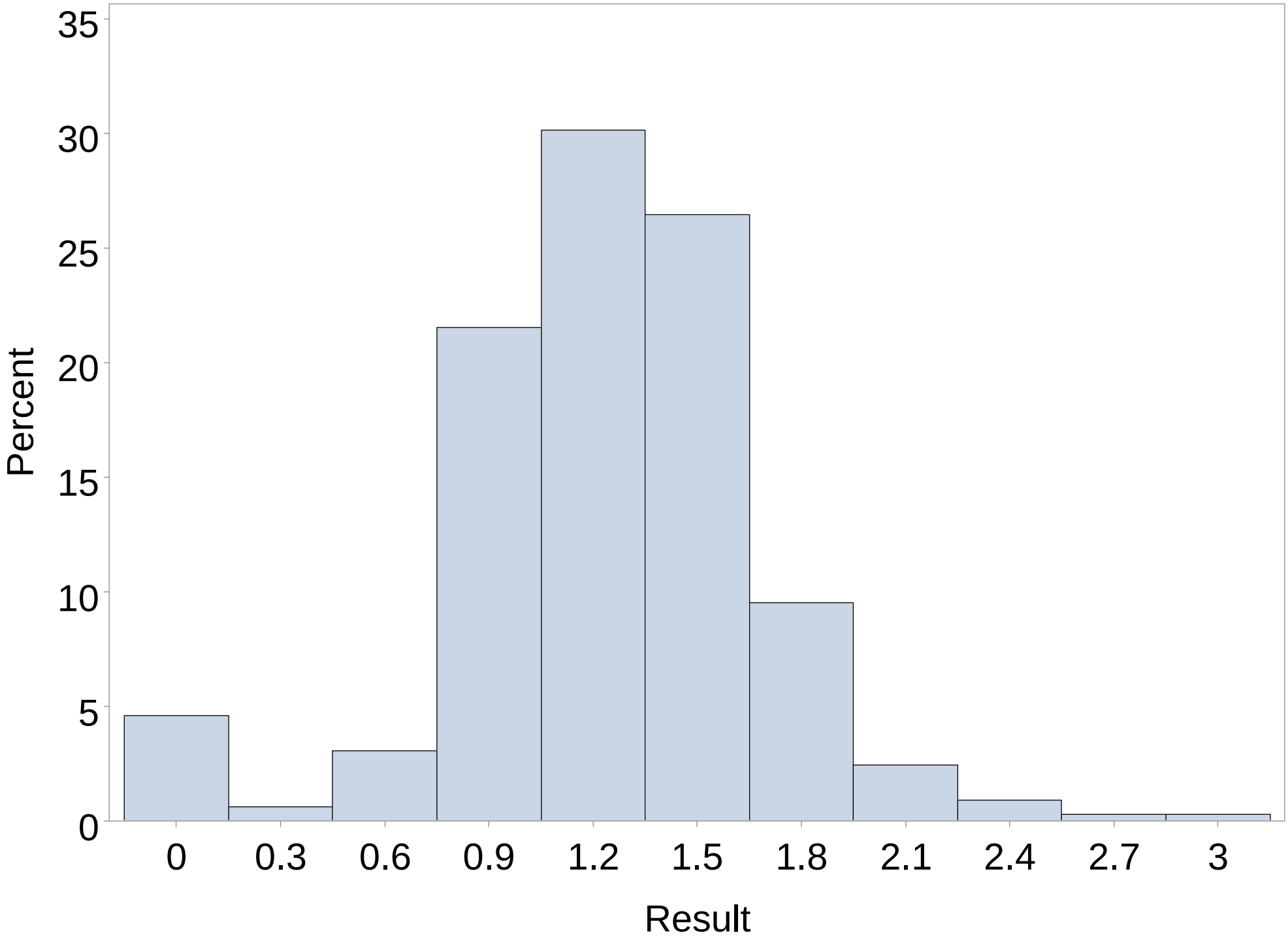
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.94626	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.05
99%	2.47
95%	1.89
90%	1.71
75% Q3	1.50
50% Median	1.25
25% Q1	1.00
10%	0.81
5%	0.27
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	130104	2.45	129858
0	130103	2.47	130086
0	130102	2.49	129797
0	130101	2.65	129970
0	130100	3.05	130046


Parameter=Total Nitrogen (mg/L) STATION=3
Percent
35
30
25
20
15
10
5
0
0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=4

Moments			
N	325	**Sum Weights**	325
Mean	1.25421231	**Sum Observations**	407.619
Std Deviation	0.46085092	**Variance**	0.21238357
Skewness	0.22690436	**Kurtosis**	5.62849055
Uncorrected SS	580.053043	**Corrected SS**	68.8122764
Coeff Variation	36.744251	**Std Error Mean**	0.02556341

Basic Statistical Measures			
Location		**Variability**	
Mean	1.254212	**Std Deviation**	0.46085
Median	1.280000	**Variance**	0.21238
Mode	0.000000	**Range**	4.16000
		Interquartile Range	0.51000

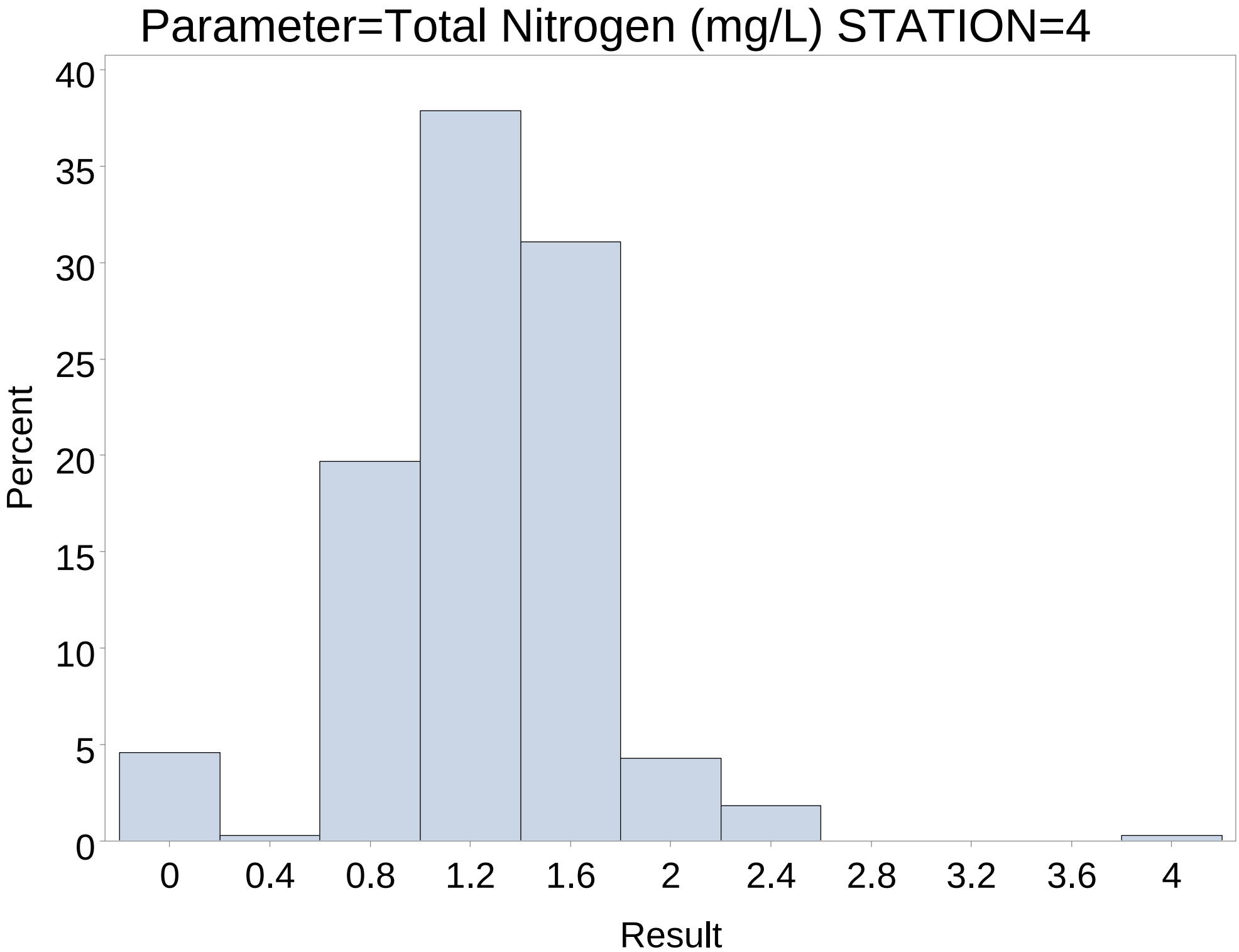
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.06279	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.16
99%	2.32
95%	1.92
90%	1.71
75% Q3	1.51
50% Median	1.28
25% Q1	1.00
10%	0.82
5%	0.60
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	130429	2.23	130241
0	130428	2.32	130411
0	130427	2.45	130231
0	130426	2.48	130122
0	130425	4.16	130177


Parameter=Total Nitrogen (mg/L) STATION=4
Percent
40
35
30
25
20
15
10
5
0
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=5

Moments			
N	325	**Sum Weights**	325
Mean	1.19763692	**Sum Observations**	389.232
Std Deviation	0.44324471	**Variance**	0.19646587
Skewness	0.78550025	**Kurtosis**	10.1297526
Uncorrected SS	529.813558	**Corrected SS**	63.6549432
Coeff Variation	37.0099404	**Std Error Mean**	0.02458679

Basic Statistical Measures			
Location		**Variability**	
Mean	1.197637	**Std Deviation**	0.44324
Median	1.200000	**Variance**	0.19647
Mode	0.000000	**Range**	4.50000
		Interquartile Range	0.44000

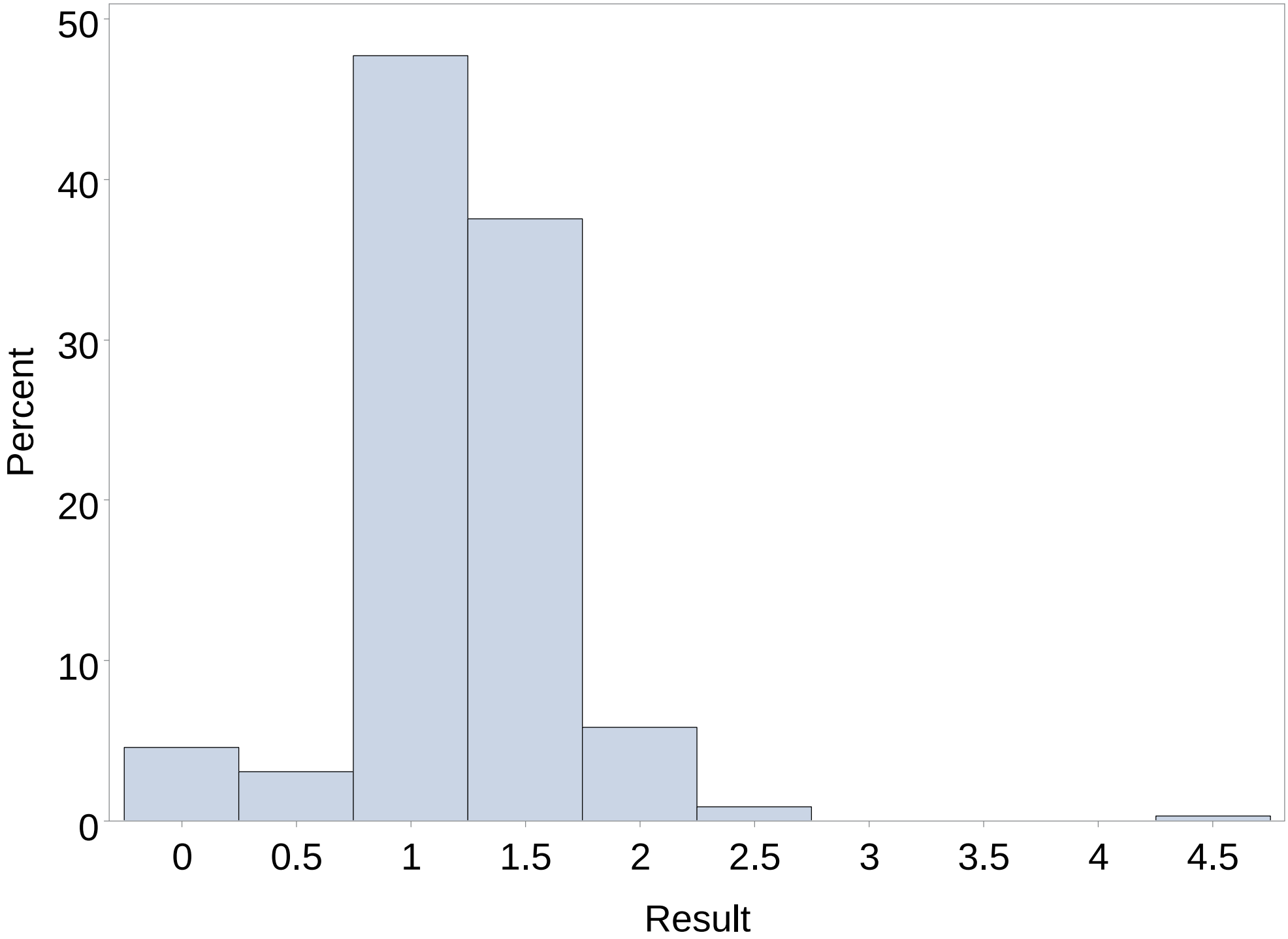
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.71058	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.50
99%	2.26
95%	1.85
90%	1.63
75% Q3	1.41
50% Median	1.20
25% Q1	0.97
10%	0.80
5%	0.63
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	130754	2.17	130691
0	130753	2.26	130558
0	130752	2.32	130573
0	130751	2.33	130556
0	130750	4.50	130669


Parameter=Total Nitrogen (mg/L) STATION=5
Percent
50
40
30
20
10
0
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=6

Moments			
N	325	**Sum Weights**	325
Mean	1.17033538	**Sum Observations**	380.359
Std Deviation	0.43357466	**Variance**	0.18798698
Skewness	-0.2571103	**Kurtosis**	1.92767552
Uncorrected SS	506.055379	**Corrected SS**	60.9077824
Coeff Variation	37.0470433	**Std Error Mean**	0.02405039

Basic Statistical Measures			
Location		**Variability**	
Mean	1.170335	**Std Deviation**	0.43357
Median	1.170000	**Variance**	0.18799
Mode	0.000000	**Range**	2.81000
		Interquartile Range	0.49000

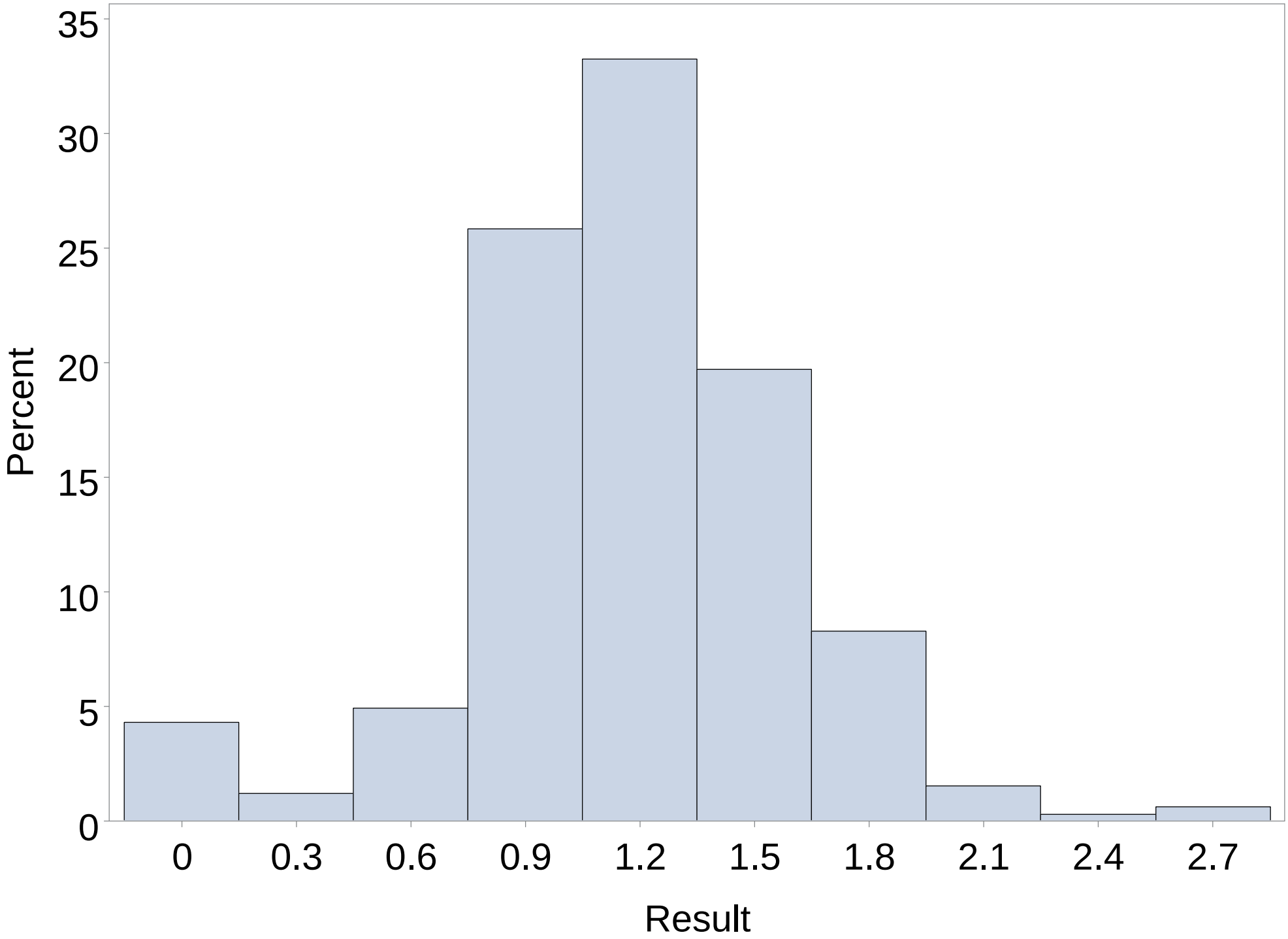
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.6618	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	2.81
99%	2.23
95%	1.81
90%	1.66
75% Q3	1.44
50% Median	1.17
25% Q1	0.95
10%	0.74
5%	0.26
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	131079	2.20	131004
0	131078	2.23	130883
0	131077	2.49	130881
0	131076	2.74	130772
0	131075	2.81	130859


Parameter=Total Nitrogen (mg/L) STATION=6
Percent
35
30
25
20
15
10
5
0
0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=7

Moments			
N	325	**Sum Weights**	325
Mean	1.20440923	**Sum Observations**	391.433
Std Deviation	0.4868764	**Variance**	0.23704863
Skewness	0.37142914	**Kurtosis**	5.09278013
Uncorrected SS	548.249273	**Corrected SS**	76.8037546
Coeff Variation	40.4244989	**Std Error Mean**	0.02700704

Basic Statistical Measures			
Location		**Variability**	
Mean	1.204409	**Std Deviation**	0.48688
Median	1.220000	**Variance**	0.23705
Mode	0.000000	**Range**	4.08000
		Interquartile Range	0.52000

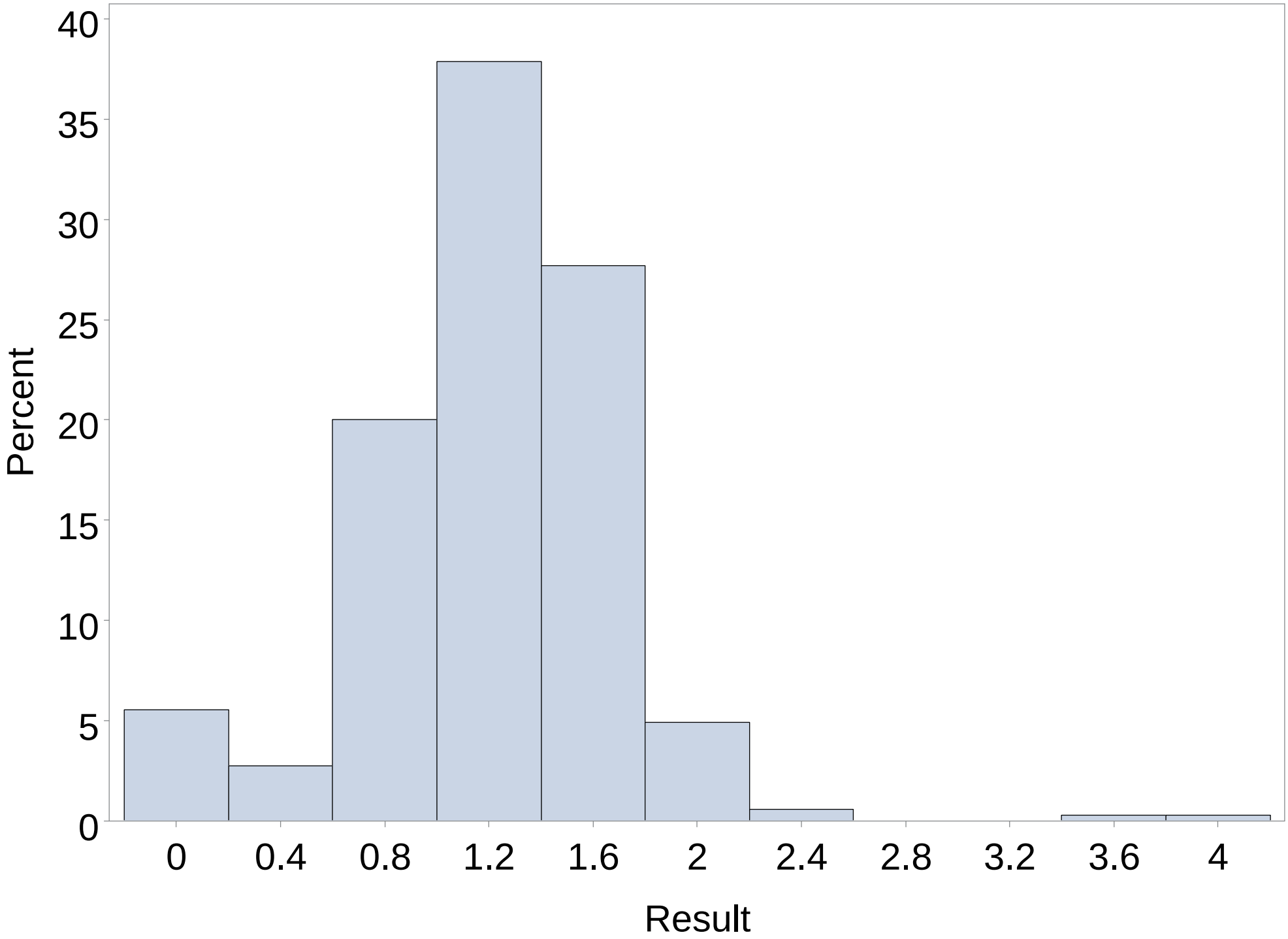
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.59612	**Pr > |t|**	<.0001
Sign	**M**	155.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	24258	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.08
99%	2.43
95%	1.82
90%	1.69
75% Q3	1.48
50% Median	1.22
25% Q1	0.96
10%	0.73
5%	0.12
1%	0.00
0% Min	0.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	131404	2.06	131244
0	131403	2.43	131158
0	131402	2.49	131208
0	131401	3.45	131206
0	131400	4.08	131097


Parameter=Total Nitrogen (mg/L) STATION=7
Percent
40
35
30
25
20
15
10
5
0
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=8

Moments			
N	326	**Sum Weights**	326
Mean	1.29925153	**Sum Observations**	423.556
Std Deviation	0.55124957	**Variance**	0.30387609
Skewness	0.17754715	**Kurtosis**	2.27809453
Uncorrected SS	649.065512	**Corrected SS**	98.7597294
Coeff Variation	42.428241	**Std Error Mean**	0.03053089

Basic Statistical Measures			
Location		**Variability**	
Mean	1.299252	**Std Deviation**	0.55125
Median	1.325000	**Variance**	0.30388
Mode	0.000000	**Range**	3.79000
		Interquartile Range	0.69000

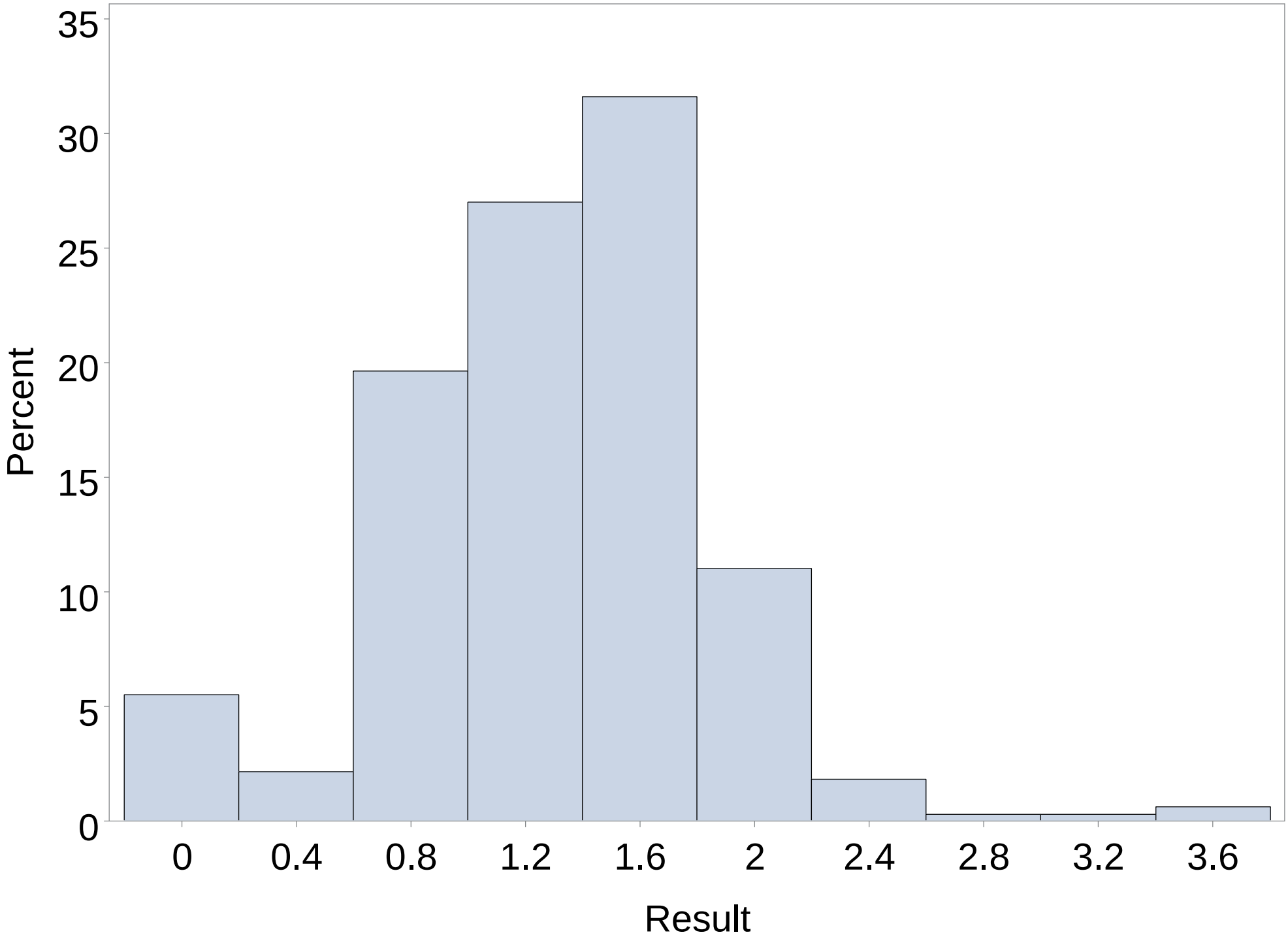
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.55531	**Pr > |t|**	<.0001
Sign	**M**	156	**Pr >= |M|**	<.0001
Signed Rank	**S**	24414	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.790
99%	2.640
95%	2.000
90%	1.890
75% Q3	1.640
50% Median	1.325
25% Q1	0.950
10%	0.710
5%	0.120
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	131730	2.55	131533
0	131729	2.64	131422
0	131728	3.04	131567
0	131727	3.71	131483
0	131726	3.79	131496


Parameter=Total Nitrogen (mg/L) STATION=8
Percent
35
30
25
20
15
10
5
0
0
0.4
0.8
1.2
1.6
2
2.4
2.8
3.2
3.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=9

Moments			
N	324	**Sum Weights**	324
Mean	1.19438889	**Sum Observations**	386.982
Std Deviation	0.59014145	**Variance**	0.34826693
Skewness	1.40262266	**Kurtosis**	7.8908956
Uncorrected SS	574.697218	**Corrected SS**	112.490217
Coeff Variation	49.4094889	**Std Error Mean**	0.03278564

Basic Statistical Measures			
Location		**Variability**	
Mean	1.194389	**Std Deviation**	0.59014
Median	1.180000	**Variance**	0.34827
Mode	0.000000	**Range**	4.90000
		Interquartile Range	0.63700

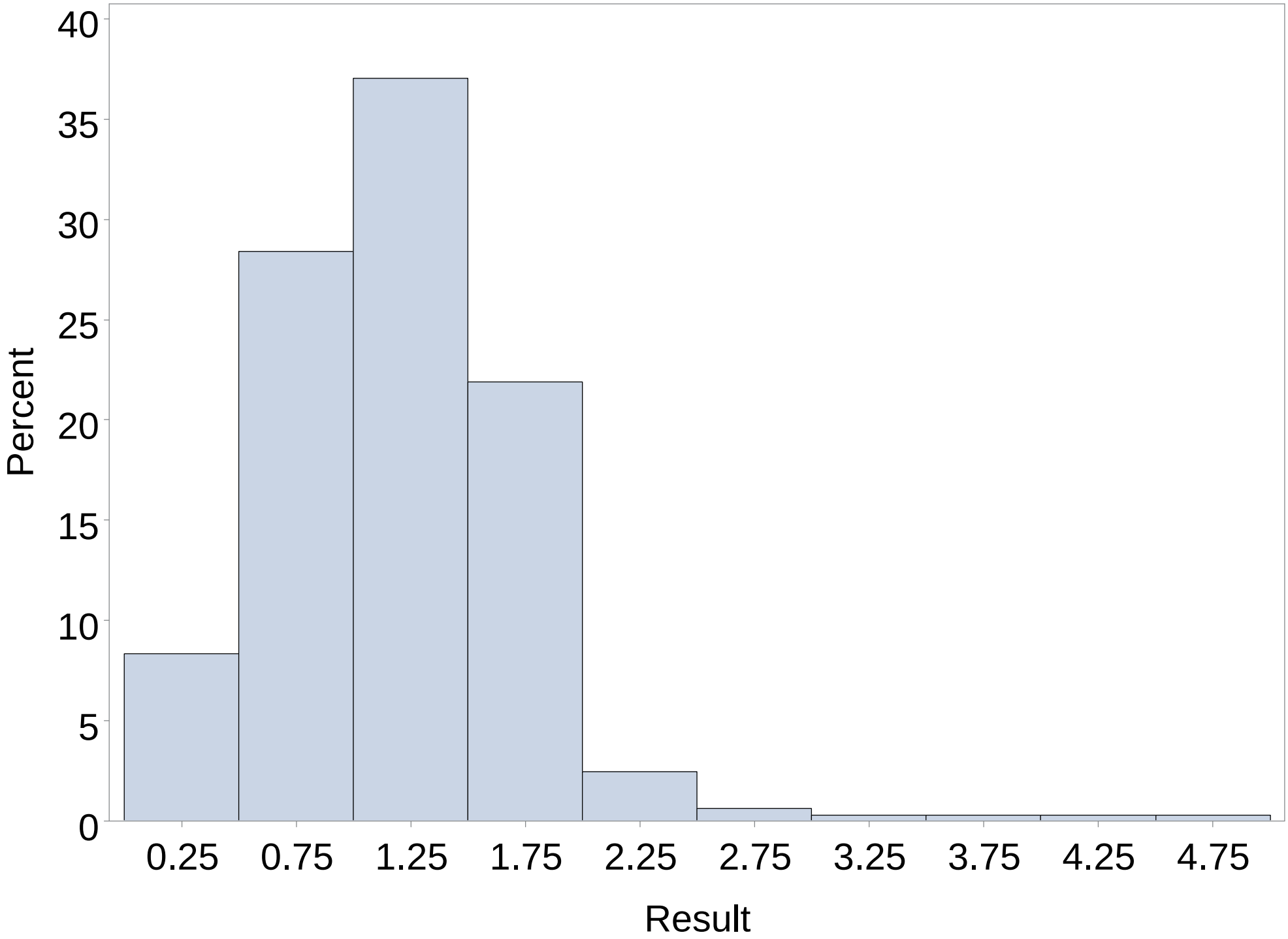
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.43025	**Pr > |t|**	<.0001
Sign	**M**	155	**Pr >= |M|**	<.0001
Signed Rank	**S**	24102.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	4.900
99%	3.250
95%	1.950
90%	1.750
75% Q3	1.515
50% Median	1.180
25% Q1	0.878
10%	0.620
5%	0.100
1%	0.000
0% Min	0.000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Nitrogen (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0	132054	2.63	131762
0	132053	3.25	131875
0	132052	3.72	131808
0	132051	4.42	131821
0	132050	4.90	131763


Parameter=Total Nitrogen (mg/L) STATION=9
Percent
40
35
30
25
20
15
10
5
0
0.25
0.75
1.25
1.75
2.25
2.75
3.25
3.75
4.25
4.75
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=1

Moments			
N	208	**Sum Weights**	208
Mean	17.5323077	**Sum Observations**	3646.72
Std Deviation	6.01304479	**Variance**	36.1567077
Skewness	0.72763471	**Kurtosis**	0.80343587
Uncorrected SS	71419.8556	**Corrected SS**	7484.43849
Coeff Variation	34.2969385	**Std Error Mean**	0.41692964

Basic Statistical Measures			
Location		**Variability**	
Mean	17.53231	**Std Deviation**	6.01304
Median	16.30000	**Variance**	36.15671
Mode	14.00000	**Range**	38.73000
		Interquartile Range	8.00000

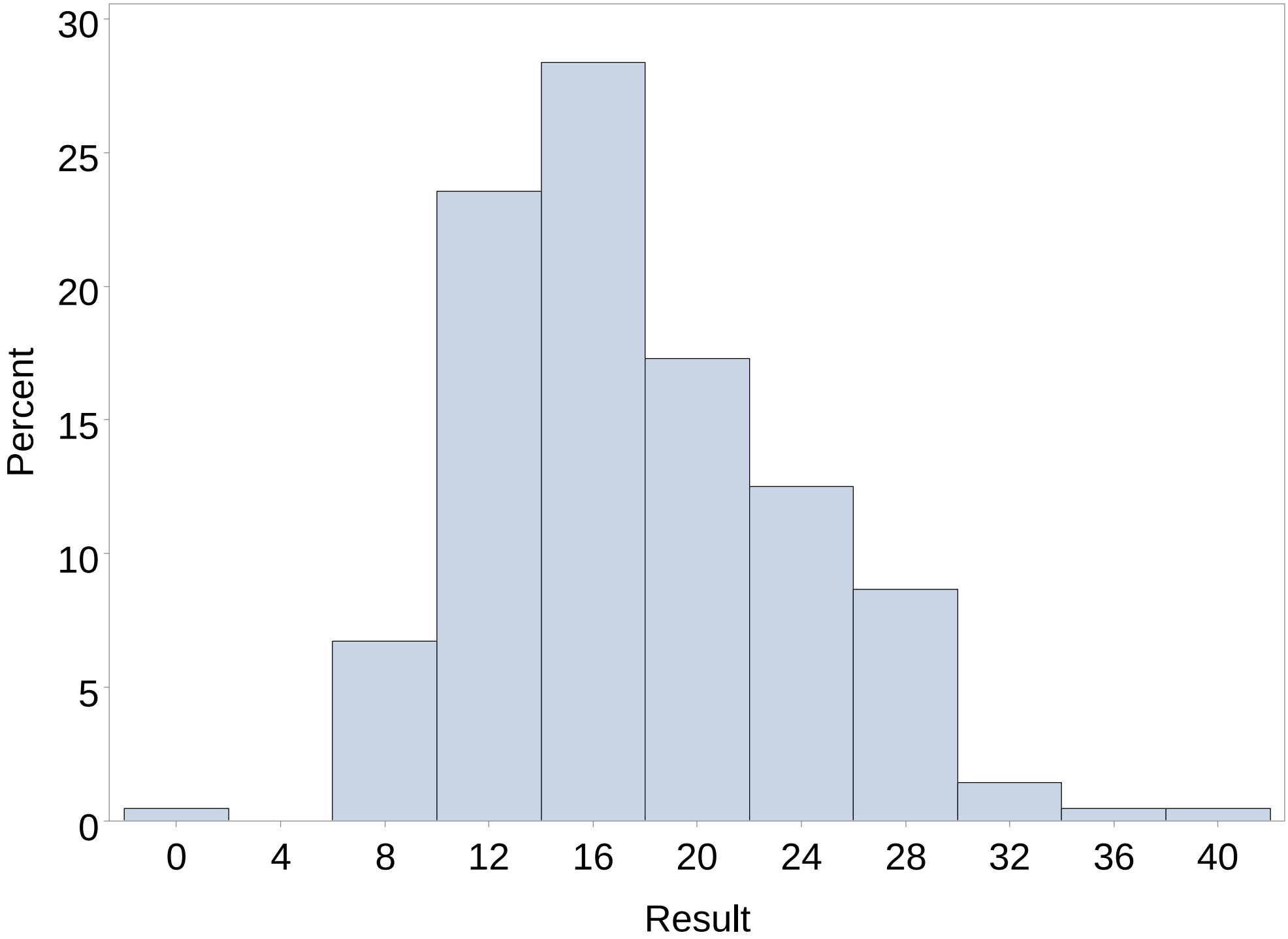
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	42.051	**Pr > |t|**	<.0001
Sign	**M**	104	**Pr >= |M|**	<.0001
Signed Rank	**S**	10868	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40.00
99%	33.50
95%	28.00
90%	26.00
75% Q3	21.00
50% Median	16.30
25% Q1	13.00
10%	12.00
5%	9.00
1%	7.34
0% Min	1.27

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.27	132060	31.3	132107
6.06	132110	33.3	132119
7.34	132102	33.5	132138
7.68	132055	37.3	132130
7.69	132257	40.0	132153


Parameter=Total Organic Carbon (mg/L) STATION=1
Percent
30
25
20
15
10
5
0
0
4
8
12
16
20
24
28
32
36
40
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=2

Moments			
N	209	**Sum Weights**	209
Mean	16.1029665	**Sum Observations**	3365.52
Std Deviation	4.75652	**Variance**	22.6244825
Skewness	0.90928734	**Kurtosis**	0.50407531
Uncorrected SS	58900.7482	**Corrected SS**	4705.89236
Coeff Variation	29.5381599	**Std Error Mean**	0.32901537

Basic Statistical Measures			
Location		**Variability**	
Mean	16.10297	**Std Deviation**	4.75652
Median	14.80000	**Variance**	22.62448
Mode	12.00000	**Range**	26.60000
		Interquartile Range	6.00000

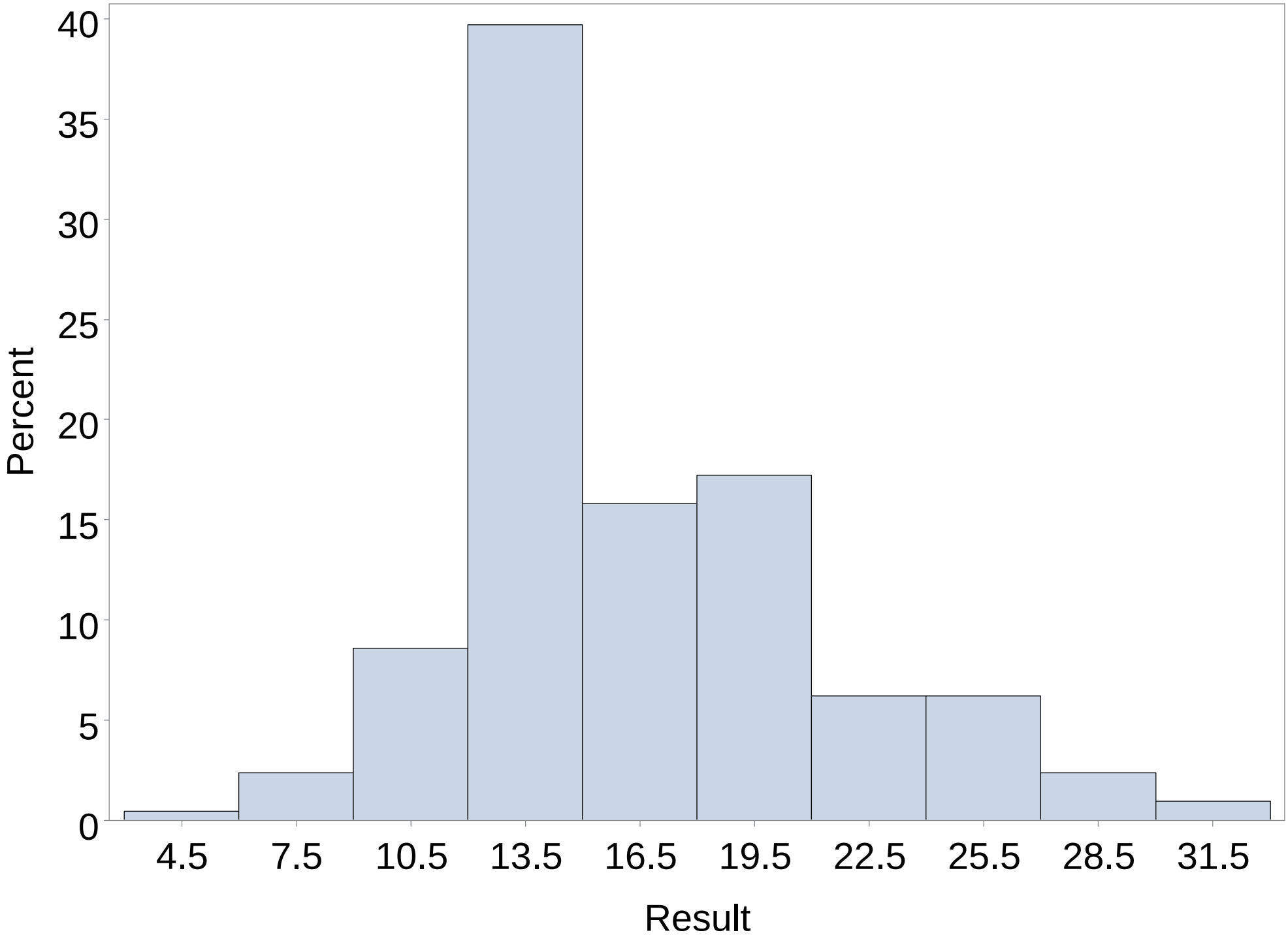
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.9429	**Pr > |t|**	<.0001
Sign	**M**	104.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	10972.5	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.60
99%	29.00
95%	26.00
90%	23.60
75% Q3	19.00
50% Median	14.80
25% Q1	13.00
10%	11.50
5%	11.00
1%	8.48
0% Min	4.00

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.00	132406	28.0	132360
8.42	132274	28.6	132340
8.48	132467	29.0	132453
8.68	132263	30.0	132359
8.71	132466	30.6	132315


Parameter=Total Organic Carbon (mg/L) STATION=2
Percent
40
35
30
25
20
15
10
5
0
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=3

Moments			
N	208	**Sum Weights**	208
Mean	17.0363942	**Sum Observations**	3543.57
Std Deviation	5.0673392	**Variance**	25.6779265
Skewness	0.61106103	**Kurtosis**	0.1751479
Uncorrected SS	65684.9863	**Corrected SS**	5315.3308
Coeff Variation	29.7442001	**Std Error Mean**	0.35135676

Basic Statistical Measures			
Location		**Variability**	
Mean	17.03639	**Std Deviation**	5.06734
Median	15.95000	**Variance**	25.67793
Mode	13.00000	**Range**	30.10000
		Interquartile Range	7.15000

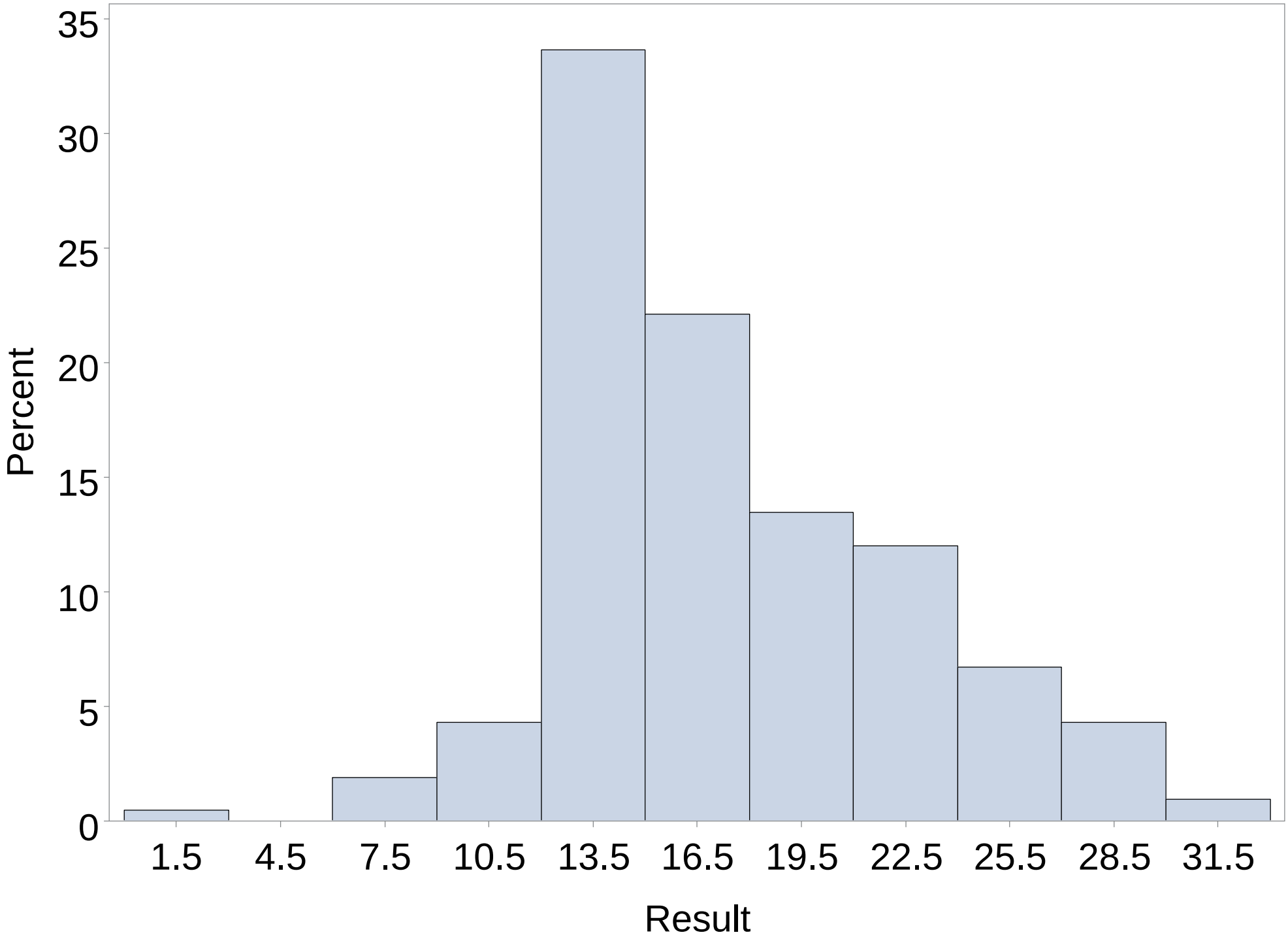
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	48.48745	**Pr > |t|**	<.0001
Sign	**M**	104	**Pr >= |M|**	<.0001
Signed Rank	**S**	10868	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.00
99%	29.10
95%	27.00
90%	25.00
75% Q3	20.15
50% Median	15.95
25% Q1	13.00
10%	12.00
5%	11.00
1%	8.28
0% Min	1.90

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
1.90	132548	28.2	132557
6.32	132677	28.9	132536
8.28	132675	29.1	132479
8.43	132674	31.4	132524
8.59	132472	32.0	132547


Parameter=Total Organic Carbon (mg/L) STATION=3
Percent
35
30
25
20
15
10
5
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=4

Moments			
N	23	**Sum Weights**	23
Mean	10.0469565	**Sum Observations**	231.08
Std Deviation	5.16845364	**Variance**	26.712913
Skewness	1.38204714	**Kurtosis**	1.61983657
Uncorrected SS	2909.3348	**Corrected SS**	587.684087
Coeff Variation	51.4429781	**Std Error Mean**	1.07769708

Basic Statistical Measures			
Location		**Variability**	
Mean	10.04696	**Std Deviation**	5.16845
Median	7.63000	**Variance**	26.71291
Mode	5.66000	**Range**	20.01000
		Interquartile Range	6.73000

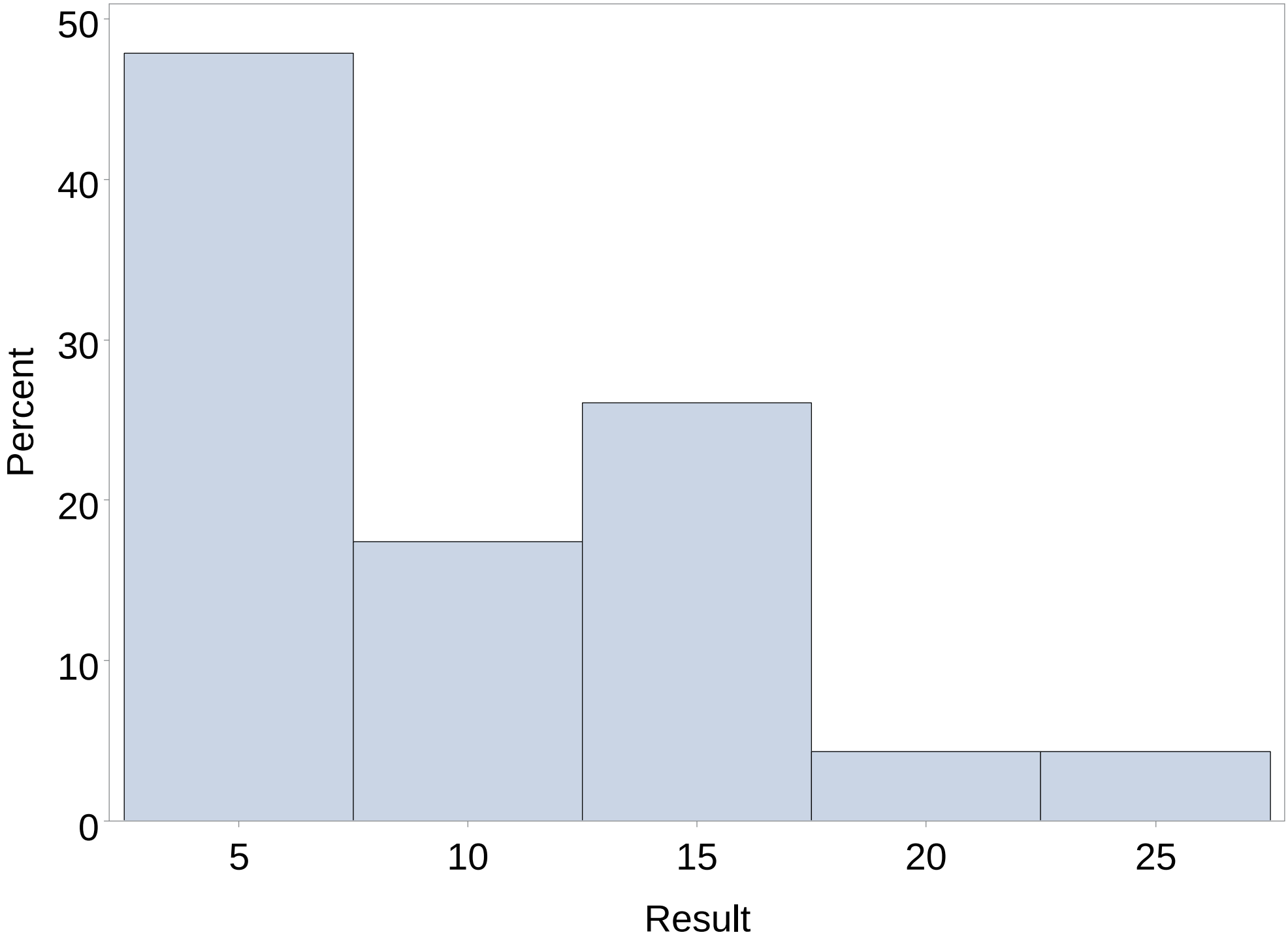
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	9.322616	**Pr > |t|**	<.0001
Sign	**M**	11.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	138	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	24.50
99%	24.50
95%	20.40
90%	16.60
75% Q3	13.20
50% Median	7.63
25% Q1	6.47
10%	5.66
5%	5.25
1%	4.49
0% Min	4.49

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
4.49	132692	13.5	132697
5.25	132680	13.6	132702
5.66	132688	16.6	132696
5.66	132682	20.4	132700
5.87	132681	24.5	132699


Parameter=Total Organic Carbon (mg/L) STATION=4
Percent
50
40
30
20
10
0
5
10
15
20
25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=9

Moments			
N	1	Sum Weights	1
Mean	21	Sum Observations	21
Std Deviation	.	Variance	.
Skewness	.	Kurtosis	.
Uncorrected SS	441	Corrected SS	0
Coeff Variation	.	Std Error Mean	.

Basic Statistical Measures			
Location		Variability	
Mean	21.00000	Std Deviation	.
Median	21.00000	Variance	.
Mode	21.00000	Range	0
		Interquartile Range	0

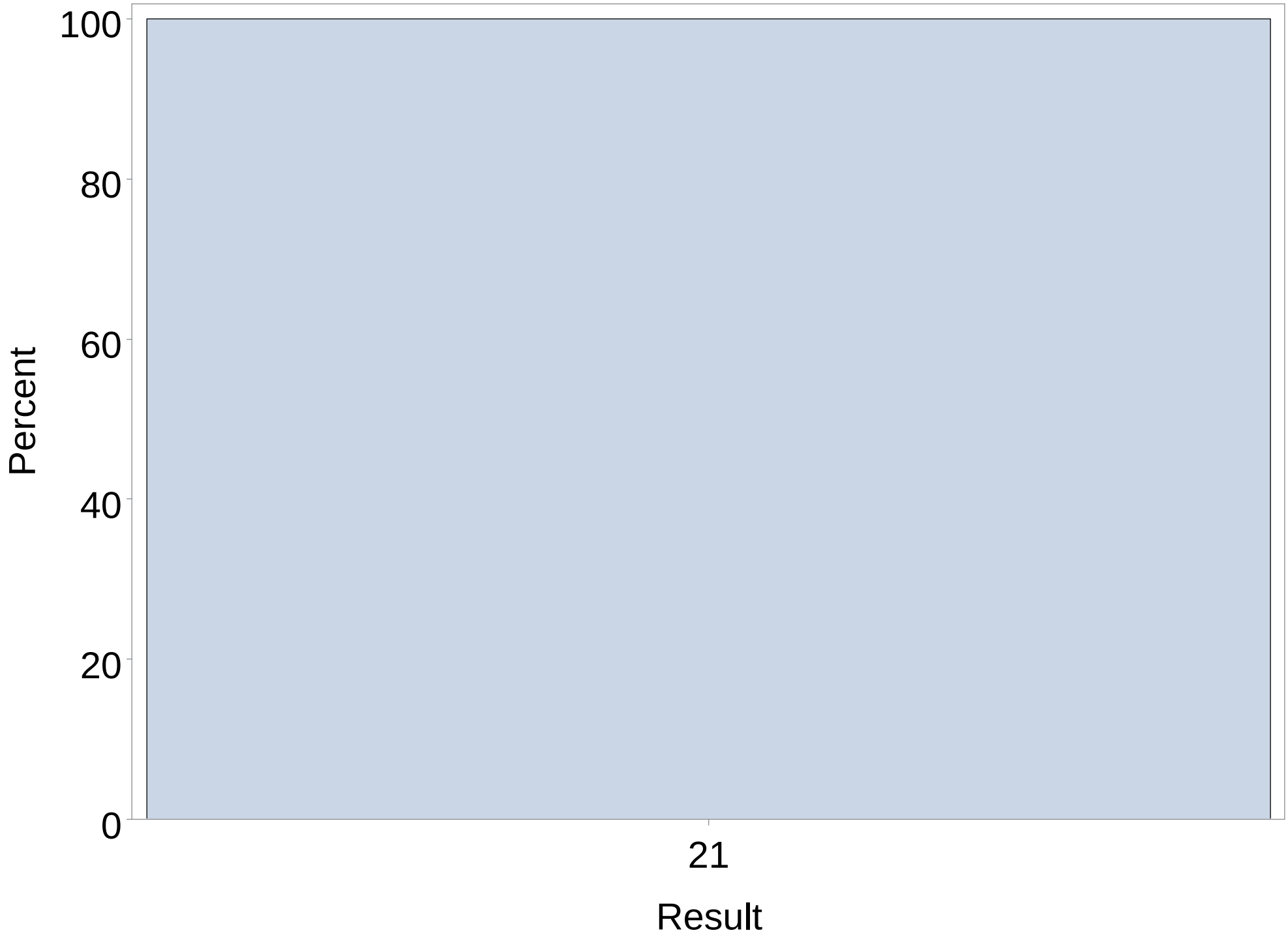
Tests for Location: Mu0=0				
Test	Statistic		p Value	
Student's t	t	.	Pr > |t|	.
Sign	M	0.5	Pr >= |M|	1.0000
Signed Rank	S	0.5	Pr >= |S|	1.0000

Quantiles (Definition 5)	
Level	Quantile
100% Max	21
99%	21
95%	21
90%	21
75% Q3	21
50% Median	21
25% Q1	21
10%	21
5%	21
1%	21
0% Min	21

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Organic Carbon (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
21	132703	21	132703


Parameter=Total Organic Carbon (mg/L) STATION=9
100
80
60
40
20
0
Percent
21
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=1

Moments			
N	331	**Sum Weights**	331
Mean	0.17746828	**Sum Observations**	58.742
Std Deviation	0.11017793	**Variance**	0.01213918
Skewness	3.47230007	**Kurtosis**	18.2732414
Uncorrected SS	14.43077	**Corrected SS**	4.00592842
Coeff Variation	62.0831704	**Std Error Mean**	0.00605593

Basic Statistical Measures			
Location		**Variability**	
Mean	0.177468	**Std Deviation**	0.11018
Median	0.150000	**Variance**	0.01214
Mode	0.160000	**Range**	0.96800
		Interquartile Range	0.09600

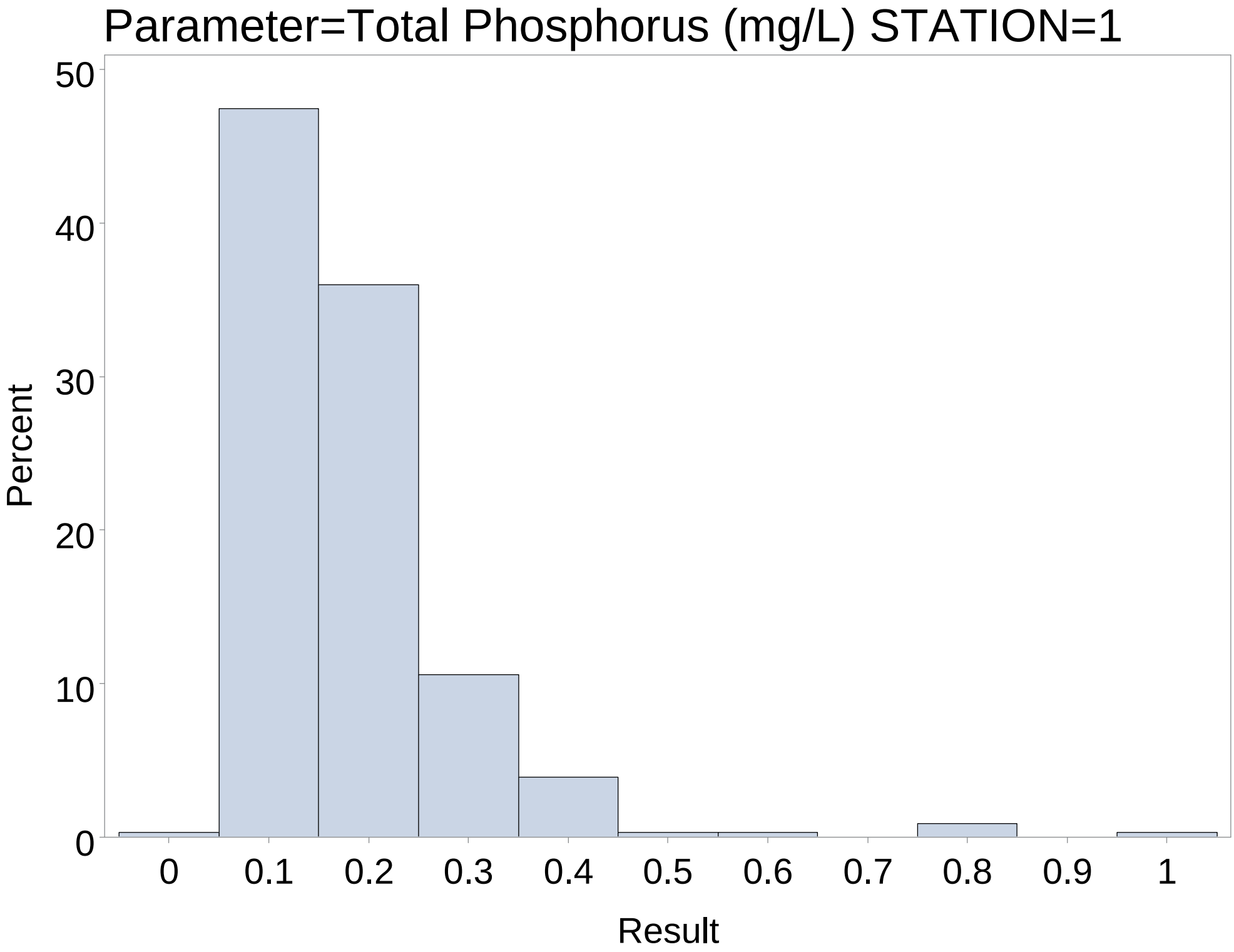
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	29.30489	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.008
99%	0.780
95%	0.360
90%	0.285
75% Q3	0.208
50% Median	0.150
25% Q1	0.112
10%	0.094
5%	0.080
1%	0.064
0% Min	0.040

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.040	132909	0.550	132923
0.055	132823	0.780	133016
0.063	132824	0.792	132721
0.064	132764	0.844	132892
0.067	132786	1.008	132714


Parameter=Total Phosphorus (mg/L) STATION=1
Percent
50
40
30
20
10
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=2

Moments			
N	331	**Sum Weights**	331
Mean	0.11300302	**Sum Observations**	37.404
Std Deviation	0.09345579	**Variance**	0.00873398
Skewness	4.97787945	**Kurtosis**	45.5780364
Uncorrected SS	7.10898	**Corrected SS**	2.882215
Coeff Variation	82.7020286	**Std Error Mean**	0.00513679

Basic Statistical Measures			
Location		**Variability**	
Mean	0.113003	**Std Deviation**	0.09346
Median	0.090000	**Variance**	0.00873
Mode	0.100000	**Range**	1.13100
		Interquartile Range	0.07800

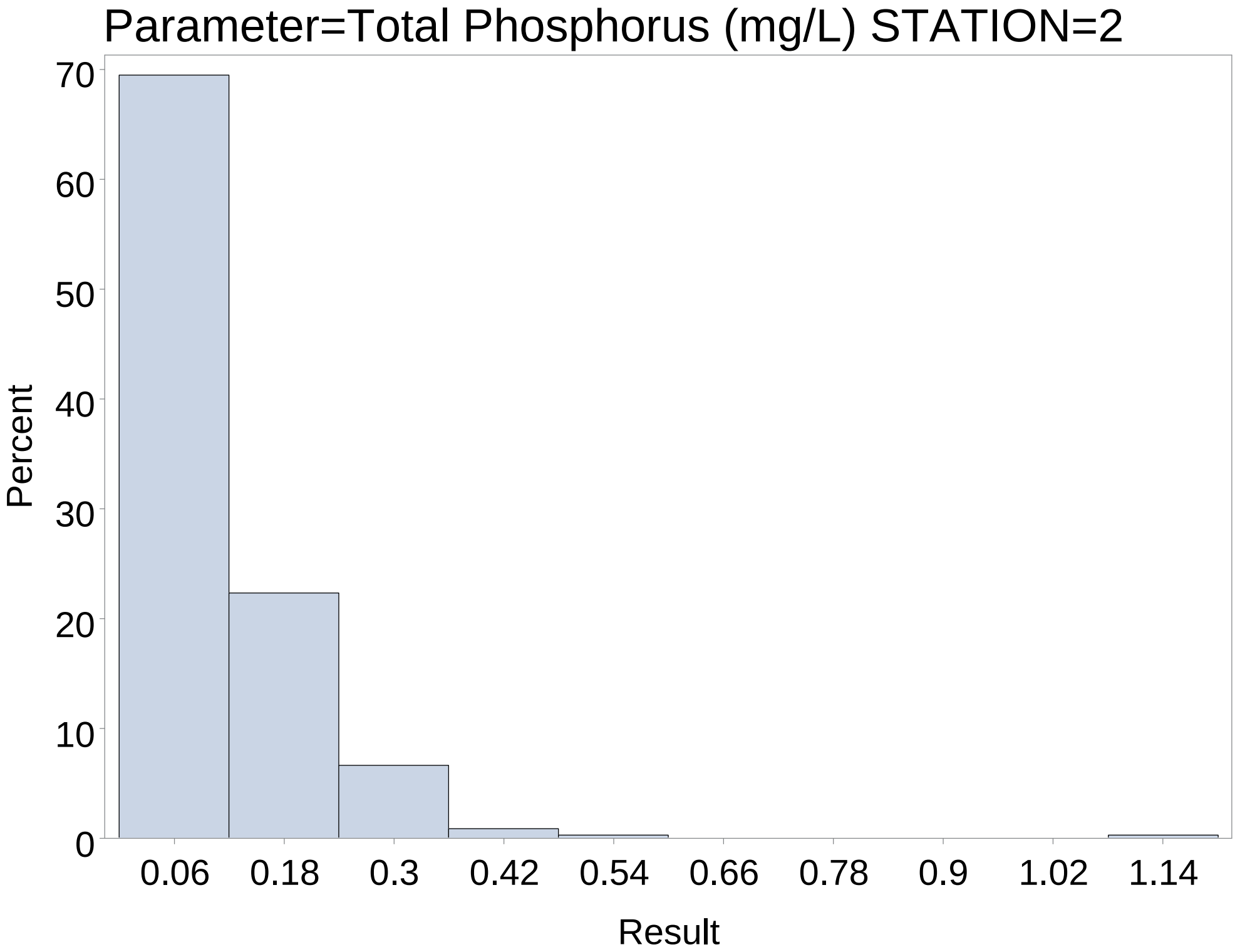
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.99874	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.144
99%	0.430
95%	0.261
90%	0.220
75% Q3	0.138
50% Median	0.090
25% Q1	0.060
10%	0.044
5%	0.040
1%	0.026
0% Min	0.013

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.013	133095	0.390	133076
0.017	133133	0.430	133066
0.021	133203	0.460	133257
0.026	133202	0.480	133347
0.027	133094	1.144	133045


Parameter=Total Phosphorus (mg/L) STATION=2
Percent
70
60
50
40
30
20
10
0
0.06
0.18
0.3
0.42
0.54
0.66
0.78
0.9
1.02
1.14
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=3

Moments			
N	331	**Sum Weights**	331
Mean	0.1521571	**Sum Observations**	50.364
Std Deviation	0.0942894	**Variance**	0.00889049
Skewness	3.35723739	**Kurtosis**	20.9262893
Uncorrected SS	10.597102	**Corrected SS**	2.93386183
Coeff Variation	61.9684505	**Std Error Mean**	0.00518261

Basic Statistical Measures			
Location		**Variability**	
Mean	0.152157	**Std Deviation**	0.09429
Median	0.122000	**Variance**	0.00889
Mode	0.100000	**Range**	0.93200
		Interquartile Range	0.08900

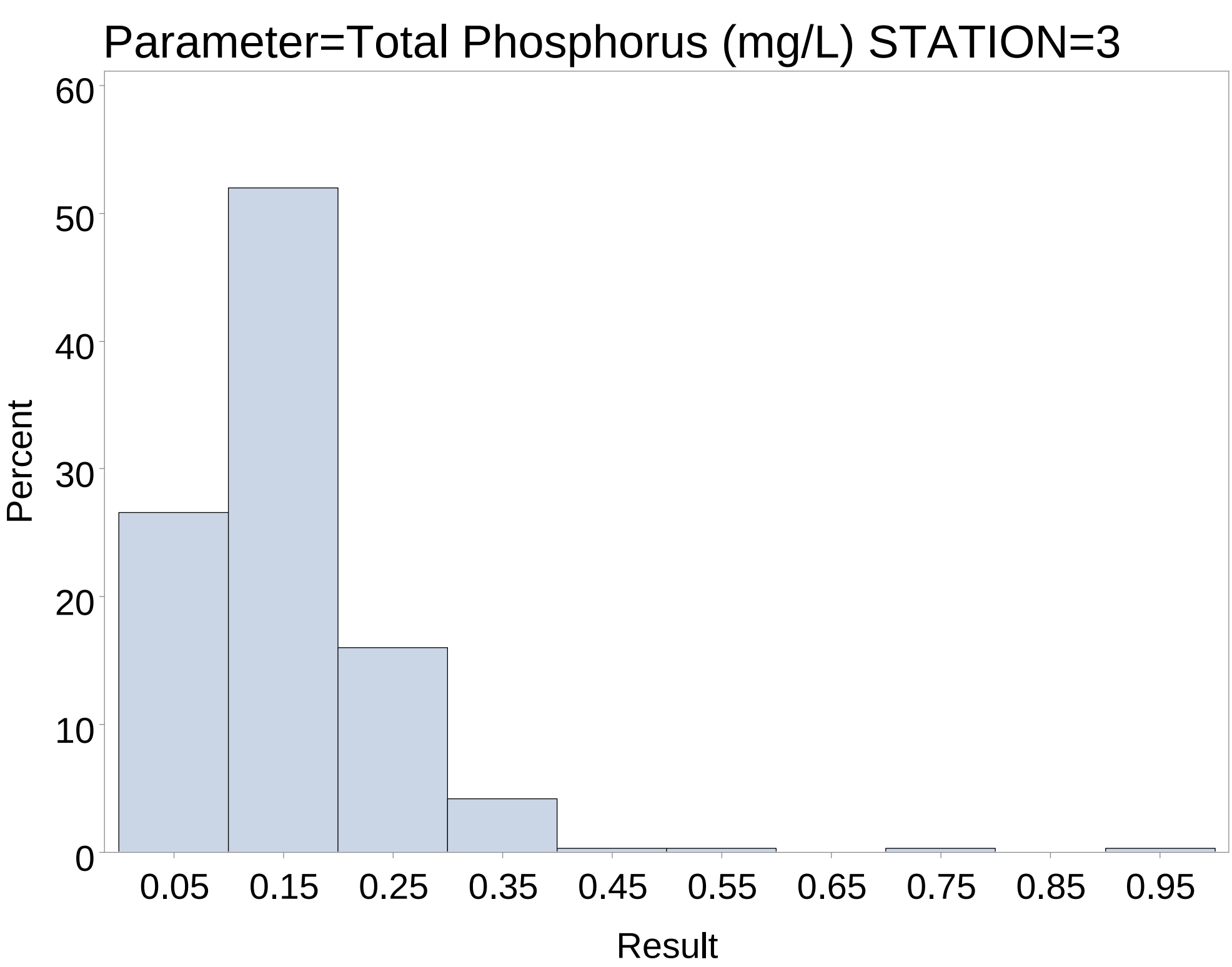
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	29.35914	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	0.946
99%	0.400
95%	0.300
90%	0.266
75% Q3	0.186
50% Median	0.122
25% Q1	0.097
10%	0.075
5%	0.063
1%	0.042
0% Min	0.014

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.014	133685	0.390	133632
0.039	133474	0.400	133527
0.040	133537	0.510	133678
0.042	133438	0.790	133383
0.046	133473	0.946	133376


Parameter=Total Phosphorus (mg/L) STATION=3
Percent
60
50
40
30
20
10
0
0.05
0.15
0.25
0.35
0.45
0.55
0.65
0.75
0.85
0.95
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=4

Moments			
N	331	**Sum Weights**	331
Mean	0.2010997	**Sum Observations**	66.564
Std Deviation	0.11791671	**Variance**	0.01390435
Skewness	3.44901703	**Kurtosis**	24.3471083
Uncorrected SS	17.974436	**Corrected SS**	4.58843571
Coeff Variation	58.6359462	**Std Error Mean**	0.00648129

Basic Statistical Measures			
Location		**Variability**	
Mean	0.201100	**Std Deviation**	0.11792
Median	0.170000	**Variance**	0.01390
Mode	0.100000	**Range**	1.23300
		Interquartile Range	0.13500

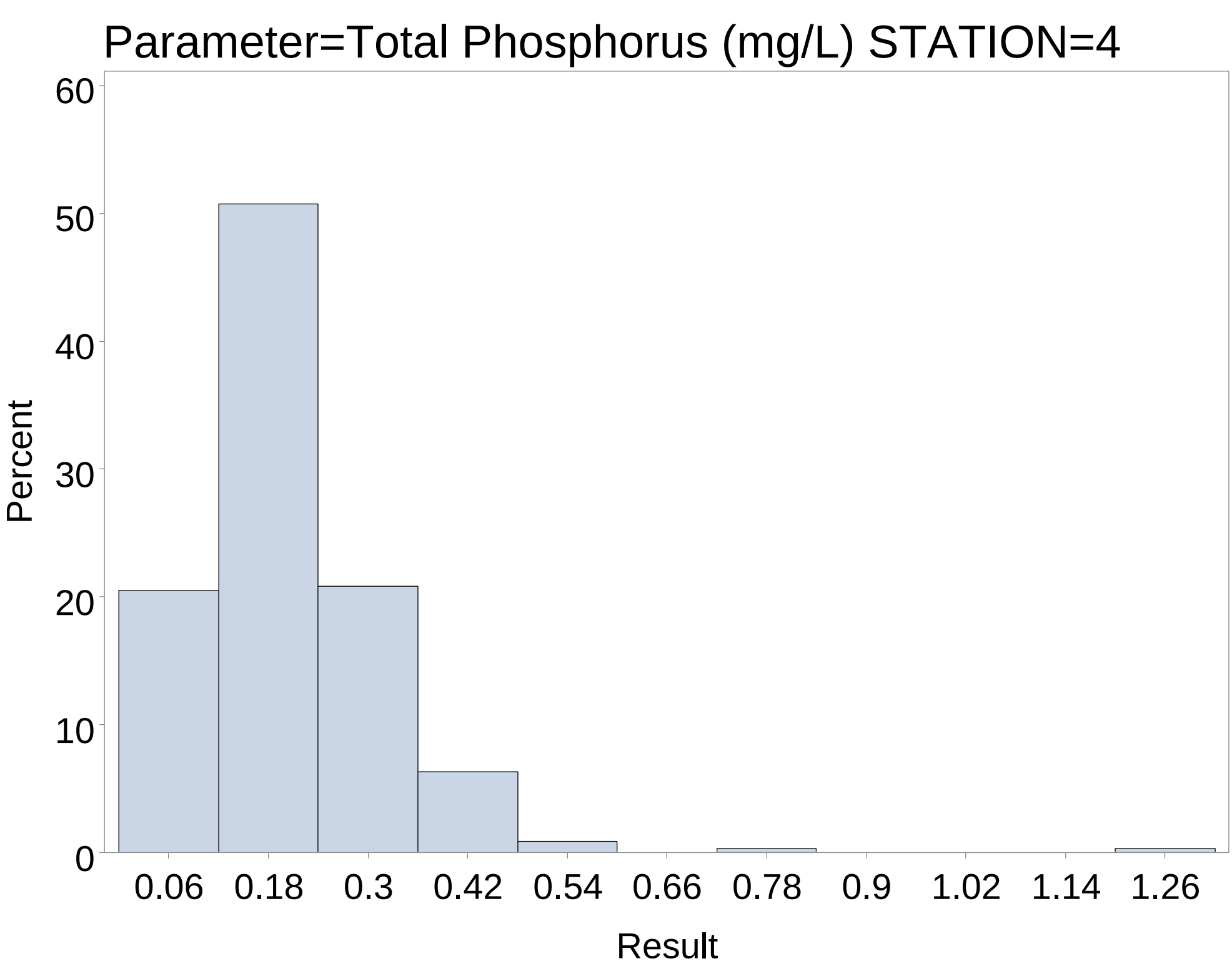
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.02773	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.298
99%	0.556
95%	0.399
90%	0.340
75% Q3	0.260
50% Median	0.170
25% Q1	0.125
10%	0.100
5%	0.090
1%	0.074
0% Min	0.065

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.065	133767	0.490	133914
0.070	133757	0.556	133880
0.072	133805	0.570	134009
0.074	133768	0.838	133714
0.075	133907	1.298	133707


Parameter=Total Phosphorus (mg/L) STATION=4
Percent
60
50
40
30
20
10
0
0.06
0.18
0.3
0.42
0.54
0.66
0.78
0.9
1.02
1.14
1.26
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=5

Moments			
N	331	**Sum Weights**	331
Mean	0.21334441	**Sum Observations**	70.617
Std Deviation	0.12468237	**Variance**	0.01554569
Skewness	3.4673913	**Kurtosis**	21.9383692
Uncorrected SS	20.195821	**Corrected SS**	5.13007874
Coeff Variation	58.4418258	**Std Error Mean**	0.00685316

Basic Statistical Measures			
Location		**Variability**	
Mean	0.213344	**Std Deviation**	0.12468
Median	0.189000	**Variance**	0.01555
Mode	0.120000	**Range**	1.25300
		Interquartile Range	0.12800

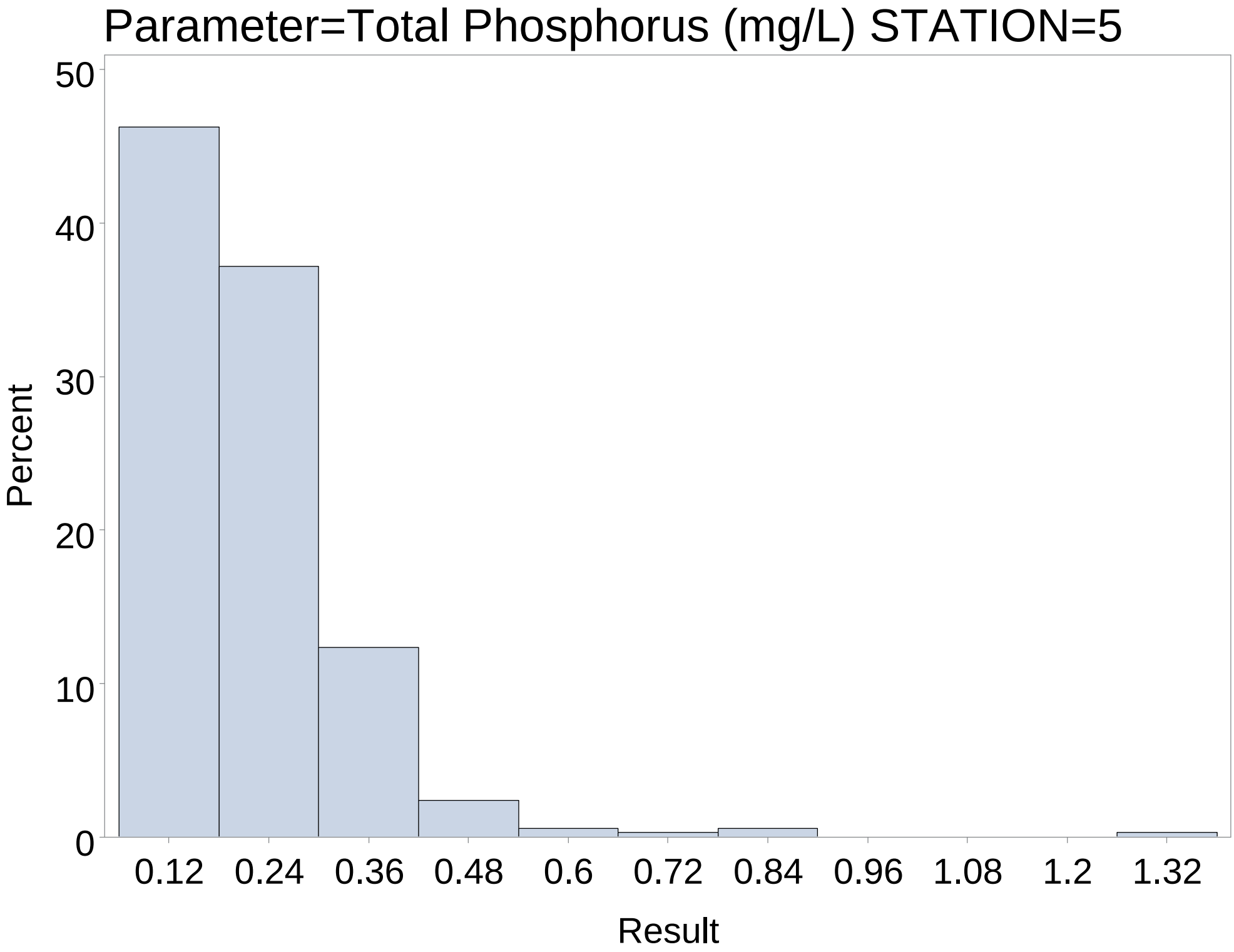
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	31.1308	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.320
99%	0.751
95%	0.380
90%	0.348
75% Q3	0.260
50% Median	0.189
25% Q1	0.132
10%	0.108
5%	0.099
1%	0.078
0% Min	0.067

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.067	134329	0.620	134246
0.070	134172	0.751	134037
0.075	134098	0.784	134045
0.078	134088	0.840	134327
0.083	134053	1.320	134038


Parameter=Total Phosphorus (mg/L) STATION=5
Percent
50
40
30
20
10
0
0.12
0.24
0.36
0.48
0.6
0.72
0.84
0.96
1.08
1.2
1.32
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=6

Moments			
N	331	**Sum Weights**	331
Mean	0.27429909	**Sum Observations**	90.793
Std Deviation	0.24435137	**Variance**	0.05970759
Skewness	10.3228401	**Kurtosis**	147.808676
Uncorrected SS	44.607943	**Corrected SS**	19.7035054
Coeff Variation	89.0820917	**Std Error Mean**	0.01343077

Basic Statistical Measures			
Location		**Variability**	
Mean	0.274299	**Std Deviation**	0.24435
Median	0.230000	**Variance**	0.05971
Mode	0.170000	**Range**	3.82800
		Interquartile Range	0.15000

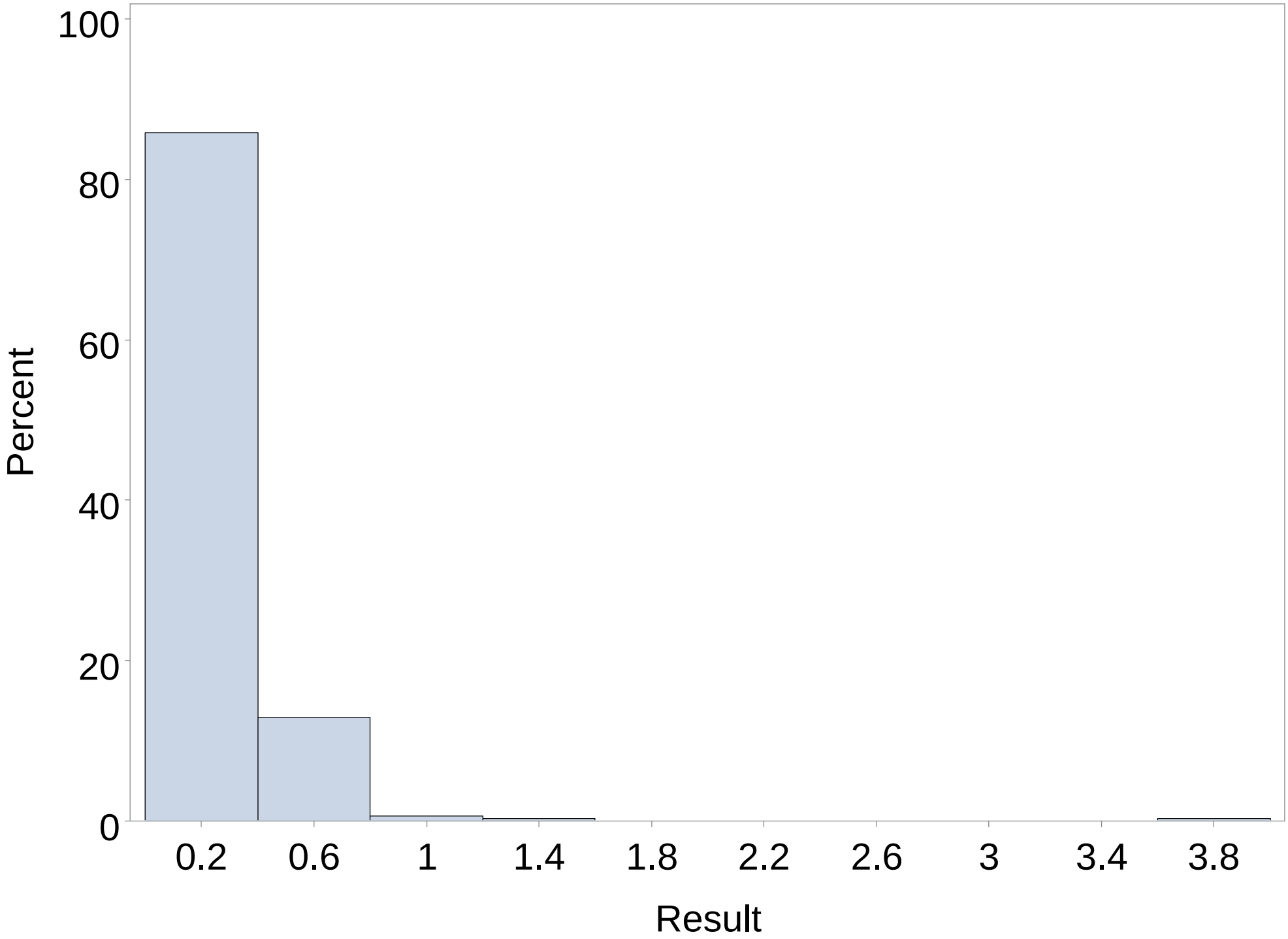
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.42319	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	3.900
99%	0.807
95%	0.530
90%	0.440
75% Q3	0.320
50% Median	0.230
25% Q1	0.170
10%	0.125
5%	0.108
1%	0.088
0% Min	0.072

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.072	134660	0.710	134576
0.075	134570	0.807	134376
0.087	134643	0.850	134577
0.088	134656	1.272	134369
0.090	134536	3.900	134584


Parameter=Total Phosphorus (mg/L) STATION=6
100
80
60
40
20
0
Percent
0.2
0.6
1
1.4
1.8
2.2
2.6
3
3.4
3.8
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=7

Moments			
N	331	**Sum Weights**	331
Mean	0.38963142	**Sum Observations**	128.968
Std Deviation	0.19329614	**Variance**	0.0373634
Skewness	1.81574792	**Kurtosis**	6.80307318
Uncorrected SS	62.579906	**Corrected SS**	12.329921
Coeff Variation	49.6099976	**Std Error Mean**	0.01062452

Basic Statistical Measures			
Location		**Variability**	
Mean	0.389631	**Std Deviation**	0.19330
Median	0.370000	**Variance**	0.03736
Mode	0.310000	**Range**	1.57800
		Interquartile Range	0.23000

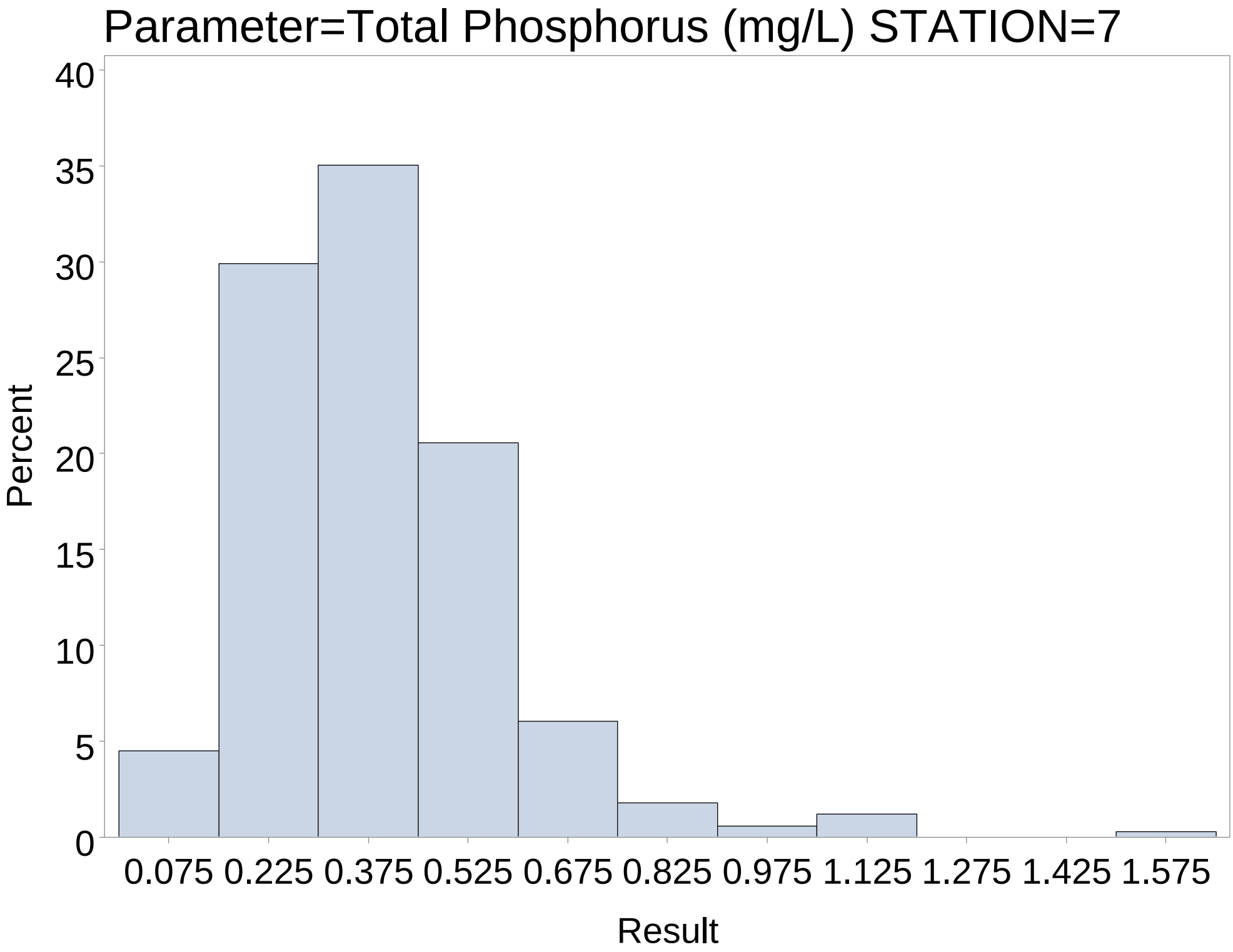
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	36.67286	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.640
99%	1.100
95%	0.720
90%	0.599
75% Q3	0.490
50% Median	0.370
25% Q1	0.260
10%	0.181
5%	0.150
1%	0.110
0% Min	0.062

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.062	134991	1.10	134900
0.098	134866	1.10	134914
0.101	134774	1.16	134855
0.110	134833	1.16	134859
0.120	134923	1.64	134700


Parameter=Total Phosphorus (mg/L) STATION=7
Percent
40
35
30
25
20
15
10
5
0
0.075
0.225
0.375
0.525
0.675
0.825
0.975
1.125
1.275
1.425
1.575
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=8

Moments			
N	331	**Sum Weights**	331
Mean	0.61532326	**Sum Observations**	203.672
Std Deviation	0.21097757	**Variance**	0.04451153
Skewness	1.16143128	**Kurtosis**	2.78003816
Uncorrected SS	140.012926	**Corrected SS**	14.6888064
Coeff Variation	34.2872733	**Std Error Mean**	0.01159638

Basic Statistical Measures			
Location		**Variability**	
Mean	0.615323	**Std Deviation**	0.21098
Median	0.599000	**Variance**	0.04451
Mode	0.400000	**Range**	1.51000
		Interquartile Range	0.26200

Note: The mode displayed is the smallest of 2 modes with a count of 7.

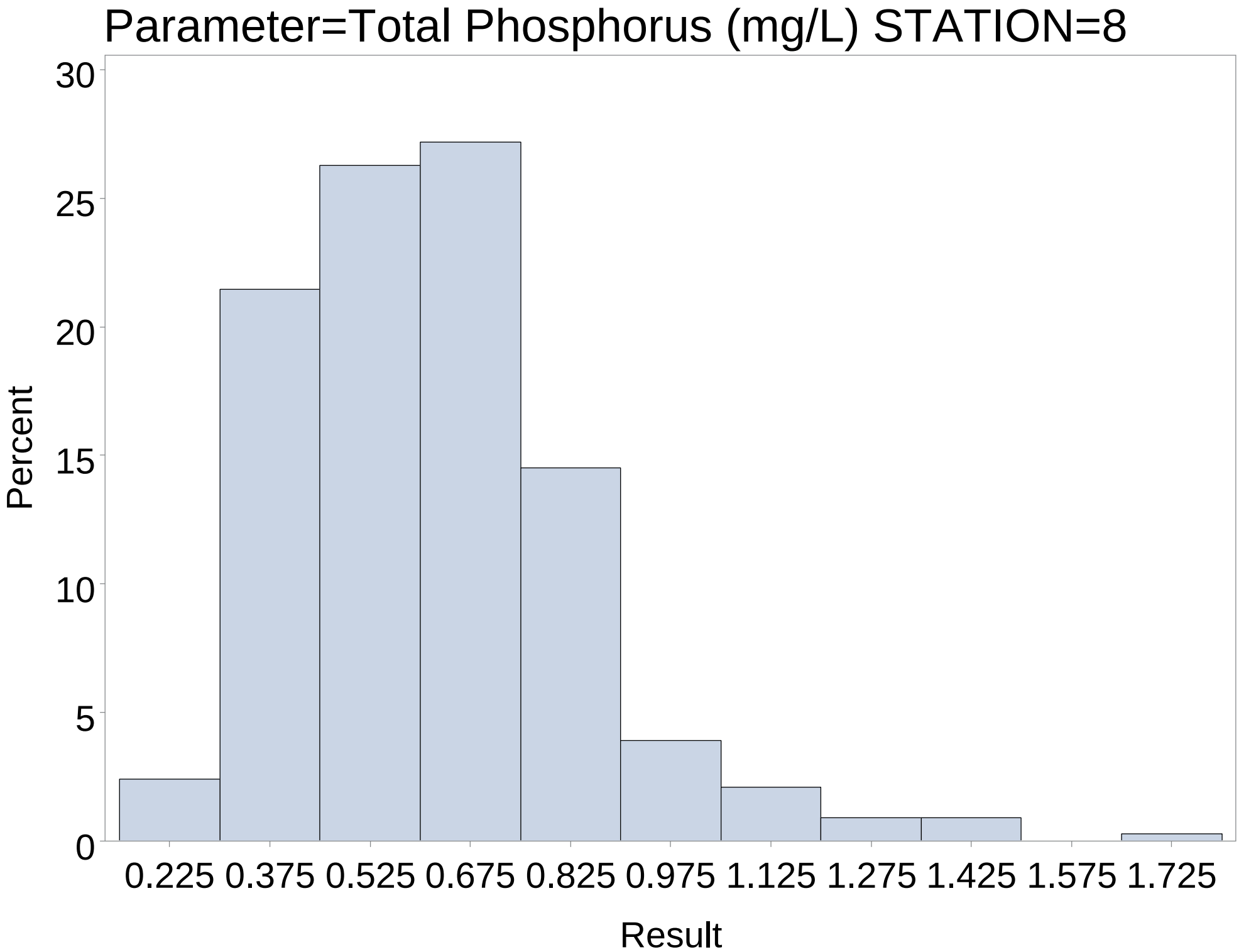
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	53.06169	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.700
99%	1.361
95%	0.980
90%	0.870
75% Q3	0.718
50% Median	0.599
25% Q1	0.456
10%	0.388
5%	0.347
1%	0.258
0% Min	0.190

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.190	135214	1.200	135238
0.217	135141	1.361	135031
0.231	135143	1.380	135185
0.258	135140	1.390	135190
0.263	135139	1.700	135336


Parameter=Total Phosphorus (mg/L) STATION=8
Percent
30
25
20
15
10
5
0
0.225
0.375
0.525
0.675
0.825
0.975
1.125
1.275
1.425
1.575
1.725
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=9

Moments			
N	332	**Sum Weights**	332
Mean	0.4866747	**Sum Observations**	161.576
Std Deviation	0.20037892	**Variance**	0.04015171
Skewness	1.50338581	**Kurtosis**	3.99546883
Uncorrected SS	91.925168	**Corrected SS**	13.2902169
Coeff Variation	41.1730717	**Std Error Mean**	0.01099722

Basic Statistical Measures			
Location		**Variability**	
Mean	0.486675	**Std Deviation**	0.20038
Median	0.450500	**Variance**	0.04015
Mode	0.360000	**Range**	1.50000
		Interquartile Range	0.22700

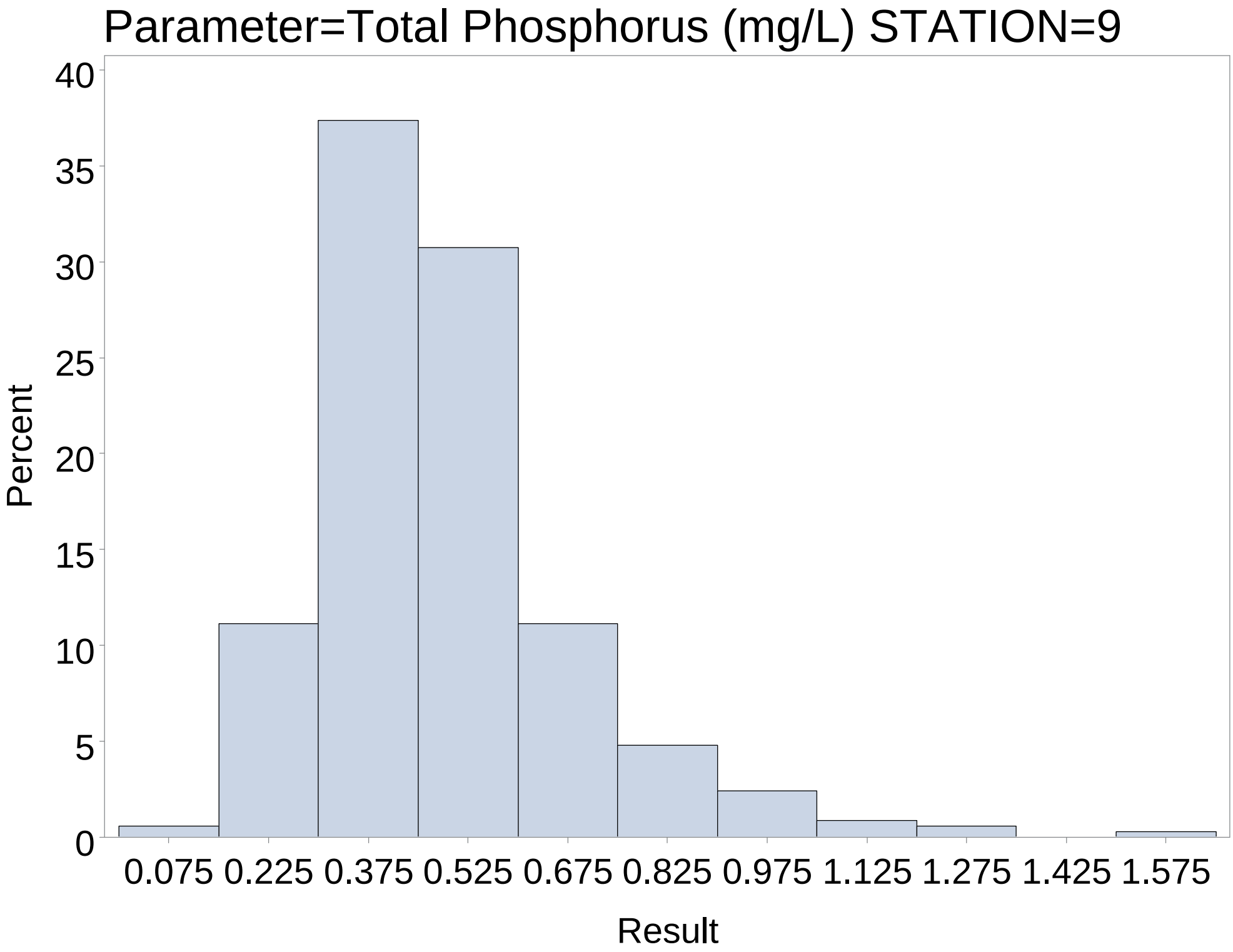
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	44.25433	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	1.6000
99%	1.1900
95%	0.8700
90%	0.7290
75% Q3	0.5785
50% Median	0.4505
25% Q1	0.3515
10%	0.2860
5%	0.2400
1%	0.1670
0% Min	0.1000

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Phosphorus (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.100	135575	1.100	135668
0.118	135534	1.190	135522
0.160	135546	1.210	135517
0.167	135435	1.265	135362
0.182	135436	1.600	135593


Parameter=Total Phosphorus (mg/L) STATION=9
Percent
40
35
30
25
20
15
10
5
0
0.075
0.225
0.375
0.525
0.675
0.825
0.975
1.125
1.275
1.425
1.575
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=1

Moments			
N	331	**Sum Weights**	331
Mean	5.13497583	**Sum Observations**	1699.677
Std Deviation	4.75150734	**Variance**	22.576822
Skewness	2.61697398	**Kurtosis**	9.94811935
Uncorrected SS	16178.1516	**Corrected SS**	7450.35127
Coeff Variation	92.5322241	**Std Error Mean**	0.26116646

Basic Statistical Measures			
Location		**Variability**	
Mean	5.134976	**Std Deviation**	4.75151
Median	3.600000	**Variance**	22.57682
Mode	2.000000	**Range**	36.10000
		Interquartile Range	4.30000

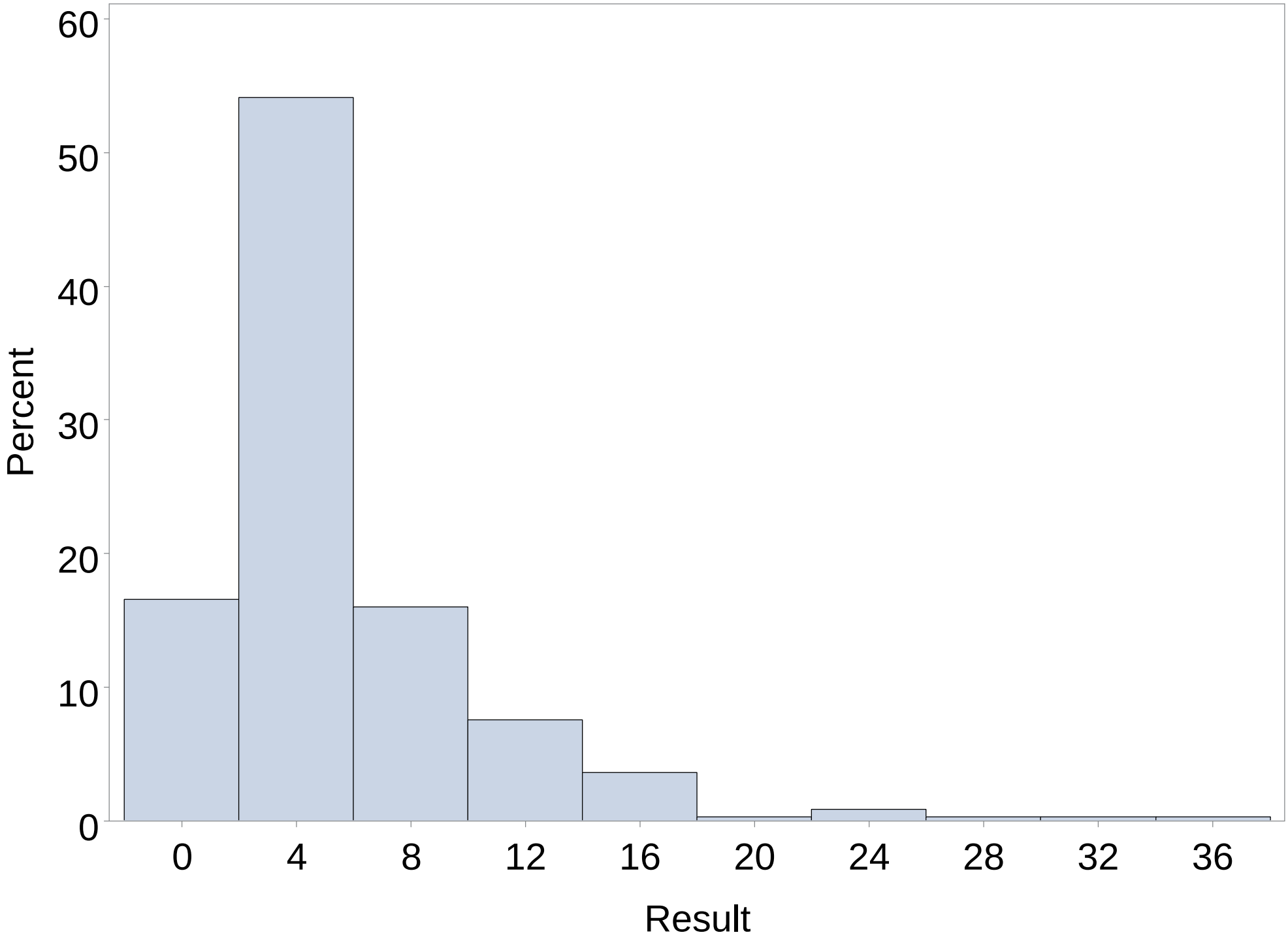
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.6617	**Pr > |t|**	<.0001
Sign	**M**	164.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27464	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	35.5
99%	24.3
95%	14.0
90%	11.0
75% Q3	6.4
50% Median	3.6
25% Q1	2.1
10%	1.4
5%	1.0
1%	0.4
0% Min	-0.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.6	135803	24.0	135986
0.1	135758	24.3	135786
0.3	135756	27.6	135809
0.4	135723	31.0	135939
0.4	135709	35.5	135768


Parameter=Total Suspended Solids (mg/L) STATION=1
Percent
60
50
40
30
20
10
0
0
4
8
12
16
20
24
28
32
36
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=2

Moments			
N	331	**Sum Weights**	331
Mean	3.86193353	**Sum Observations**	1278.3
Std Deviation	3.3918611	**Variance**	11.5047217
Skewness	3.34333103	**Kurtosis**	16.3869131
Uncorrected SS	8733.2678	**Corrected SS**	3796.55816
Coeff Variation	87.8280547	**Std Error Mean**	0.18643355

Basic Statistical Measures			
Location		**Variability**	
Mean	3.861934	**Std Deviation**	3.39186
Median	2.900000	**Variance**	11.50472
Mode	2.000000	**Range**	29.60000
		Interquartile Range	3.00000

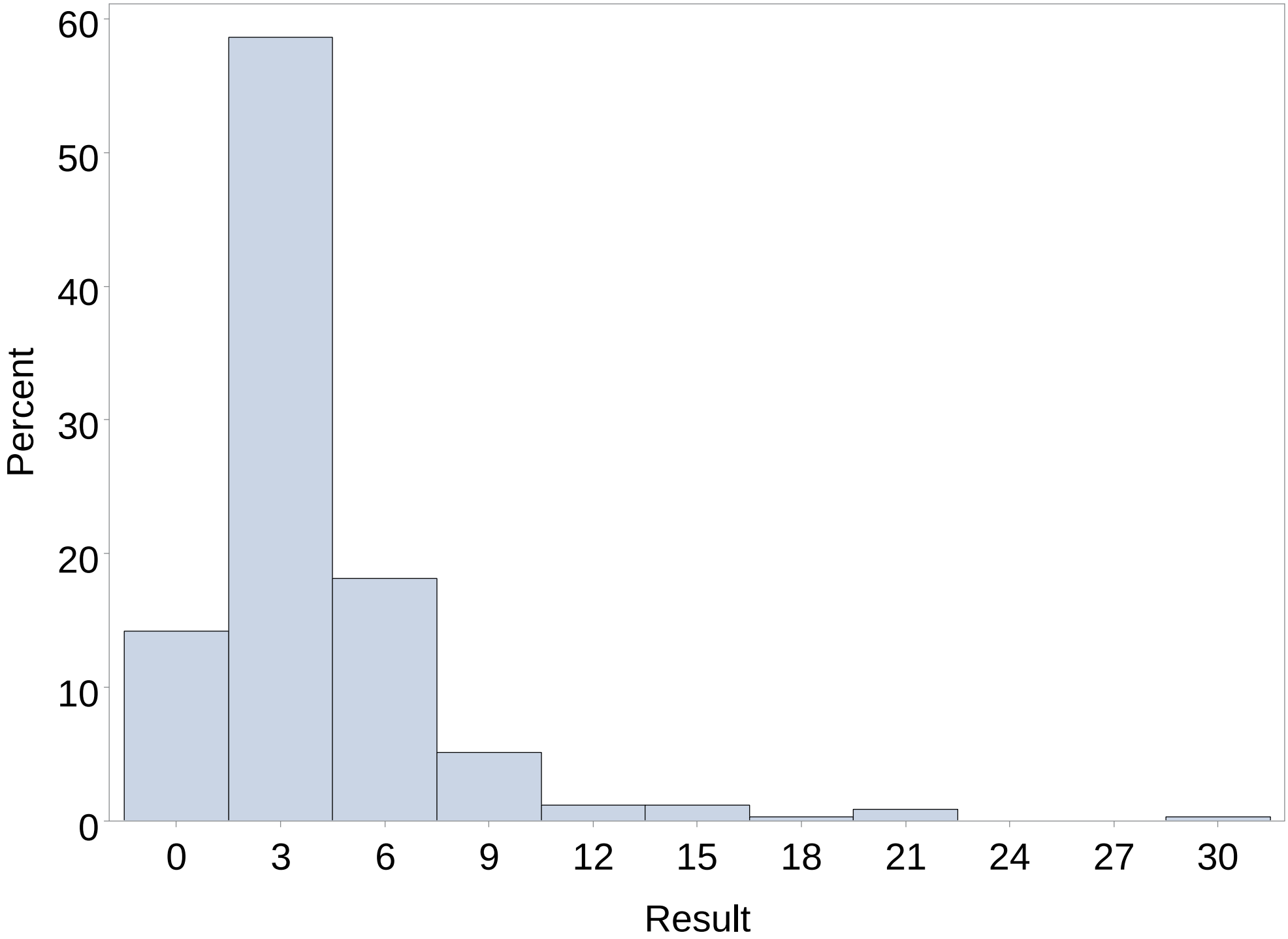
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	20.7148	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	30.0
99%	20.0
95%	9.6
90%	7.1
75% Q3	4.8
50% Median	2.9
25% Q1	1.8
10%	1.3
5%	1.0
1%	0.6
0% Min	0.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	136066	19	136317
0.6	136121	20	136200
0.6	136113	20	136283
0.6	136097	21	136144
0.8	136185	30	136142


Parameter=Total Suspended Solids (mg/L) STATION=2
Percent
60
50
40
30
20
10
0
0
3
6
9
12
15
18
21
24
27
30
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=3

Moments			
N	332	**Sum Weights**	332
Mean	5.20710843	**Sum Observations**	1728.76
Std Deviation	6.48481438	**Variance**	42.0528176
Skewness	7.23239421	**Kurtosis**	75.1811382
Uncorrected SS	22921.3234	**Corrected SS**	13919.4826
Coeff Variation	124.537725	**Std Error Mean**	0.35590043

Basic Statistical Measures			
Location		**Variability**	
Mean	5.207108	**Std Deviation**	6.48481
Median	4.000000	**Variance**	42.05282
Mode	2.000000	**Range**	85.60000
		Interquartile Range	3.10000

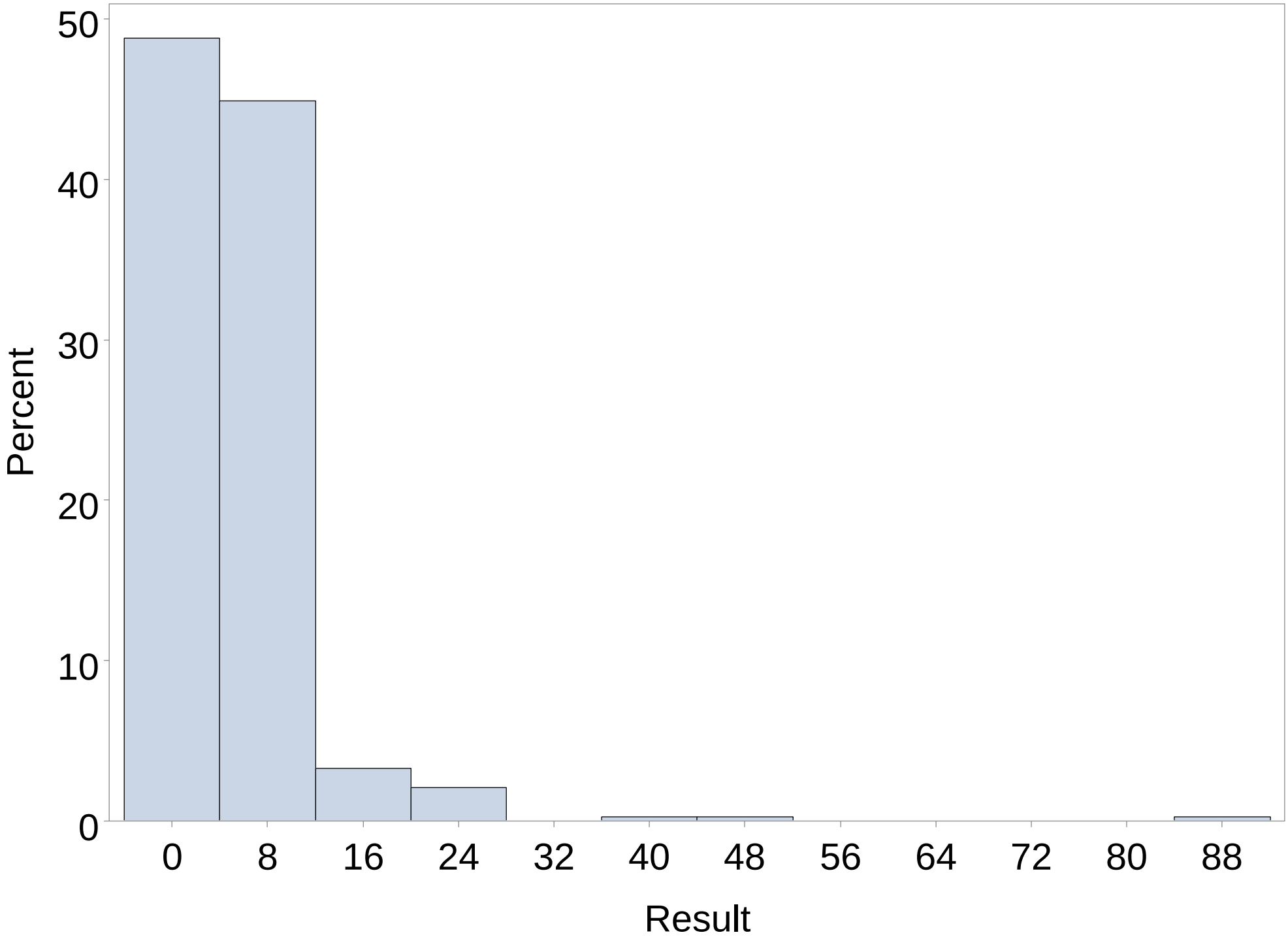
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	14.6308	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27636	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	85.0
99%	25.8
95%	14.0
90%	8.4
75% Q3	5.6
50% Median	4.0
25% Q1	2.5
10%	1.8
5%	1.0
1%	0.6
0% Min	-0.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.6	136465	23.0	136648
0.3	136422	25.8	136425
0.6	136464	38.0	136640
0.6	136433	45.0	136628
0.8	136451	85.0	136631


Parameter=Total Suspended Solids (mg/L) STATION=3
Percent
50
40
30
20
10
0
0
8
16
24
32
40
48
56
64
72
80
88
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=4

Moments			
N	331	**Sum Weights**	331
Mean	5.03018127	**Sum Observations**	1664.99
Std Deviation	3.58691595	**Variance**	12.865966
Skewness	2.44917932	**Kurtosis**	9.31199294
Uncorrected SS	12620.9703	**Corrected SS**	4245.76879
Coeff Variation	71.3078865	**Std Error Mean**	0.19715473

Basic Statistical Measures			
Location		**Variability**	
Mean	5.030181	**Std Deviation**	3.58692
Median	4.300000	**Variance**	12.86597
Mode	4.400000	**Range**	27.70000
		Interquartile Range	3.30000

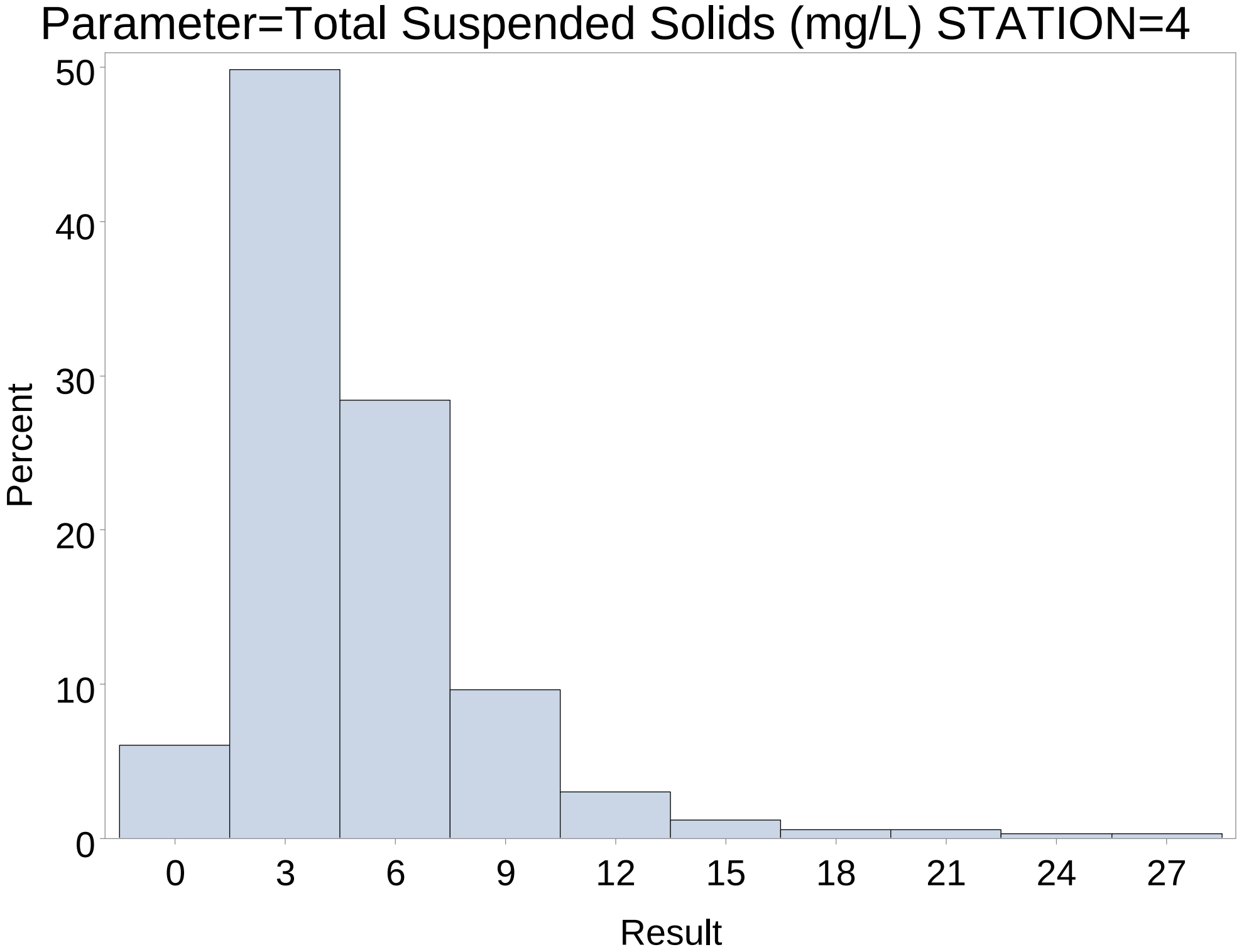
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.51388	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.0
99%	20.0
95%	12.0
90%	8.8
75% Q3	6.1
50% Median	4.3
25% Q1	2.8
10%	2.0
5%	1.2
1%	0.6
0% Min	0.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	136735	19.0	136895
0.4	136701	20.0	136931
0.6	136769	21.7	136737
0.6	136766	23.0	136871
0.6	136765	28.0	136801


Parameter=Total Suspended Solids (mg/L) STATION=4
Percent
50
40
30
20
10
0
0
3
6
9
12
15
18
21
24
27
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=5

Moments			
N	332	**Sum Weights**	332
Mean	5.20834337	**Sum Observations**	1729.17
Std Deviation	5.05765651	**Variance**	25.5798894
Skewness	5.36724736	**Kurtosis**	42.6012224
Uncorrected SS	17473.0545	**Corrected SS**	8466.94339
Coeff Variation	97.1068178	**Std Error Mean**	0.27757496

Basic Statistical Measures			
Location		**Variability**	
Mean	5.208343	**Std Deviation**	5.05766
Median	4.000000	**Variance**	25.57989
Mode	2.000000	**Range**	56.60000
		Interquartile Range	3.50000

Note: The mode displayed is the smallest of 2 modes with a count of 19.

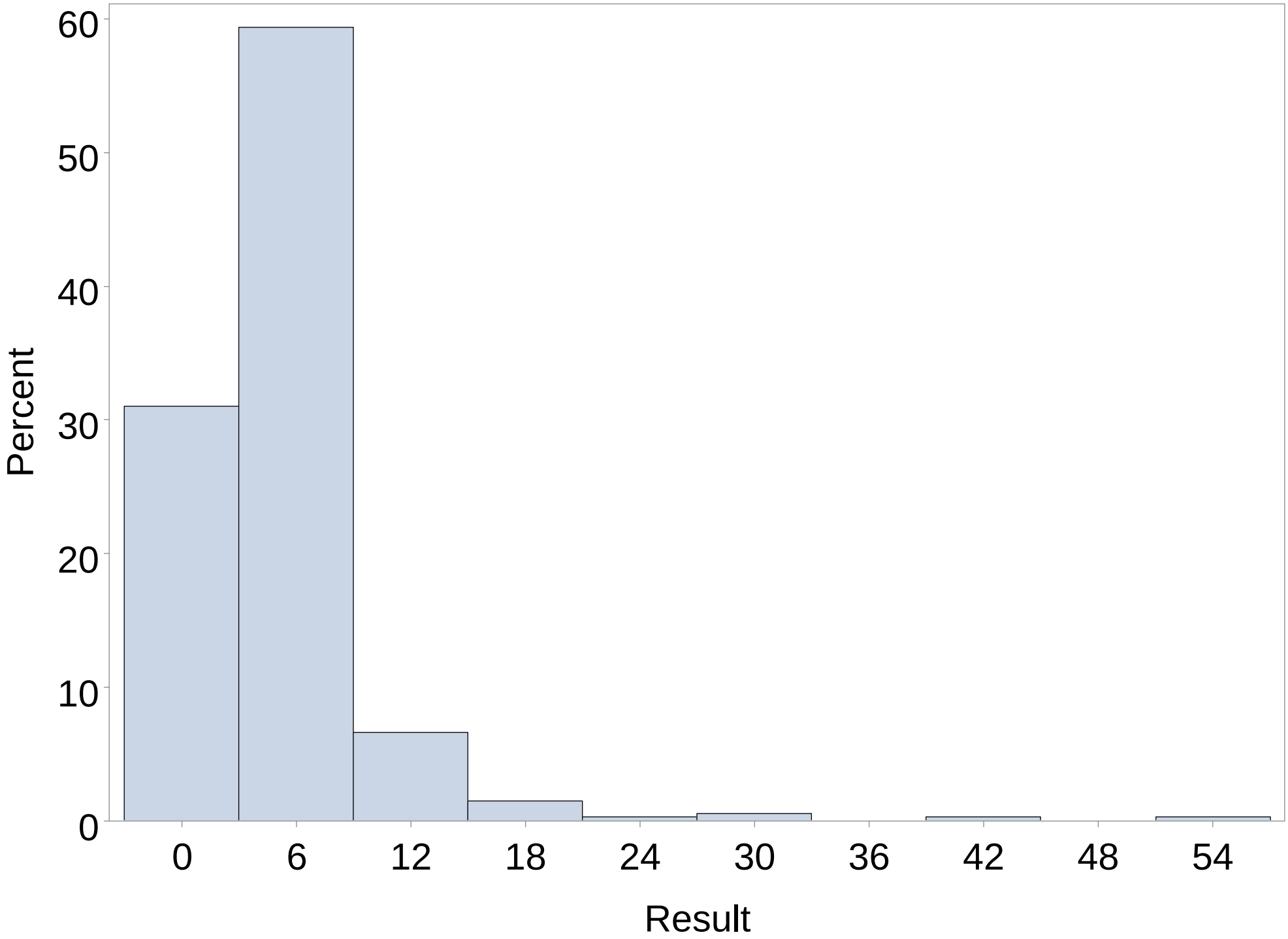
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.76374	**Pr > |t|**	<.0001
Sign	**M**	165	**Pr >= |M|**	<.0001
Signed Rank	**S**	27636	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	56.0
99%	27.0
95%	12.0
90%	8.6
75% Q3	6.3
50% Median	4.0
25% Q1	2.8
10%	2.0
5%	1.2
1%	0.6
0% Min	-0.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
-0.6	137128	22	137216
0.5	137298	27	137132
0.6	137095	29	137252
0.6	137091	44	137309
0.8	137114	56	137271


Parameter=Total Suspended Solids (mg/L) STATION=5
Percent
60
50
40
30
20
10
0
0
6
12
18
24
30
36
42
48
54
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=6

Moments			
N	332	**Sum Weights**	332
Mean	6.44858434	**Sum Observations**	2140.93
Std Deviation	6.50096415	**Variance**	42.2625348
Skewness	4.17978381	**Kurtosis**	30.9887668
Uncorrected SS	27794.8667	**Corrected SS**	13988.899
Coeff Variation	100.812268	**Std Error Mean**	0.35678676

Basic Statistical Measures			
Location		**Variability**	
Mean	6.448584	**Std Deviation**	6.50096
Median	4.700000	**Variance**	42.26253
Mode	4.000000	**Range**	70.60000
		Interquartile Range	4.51500

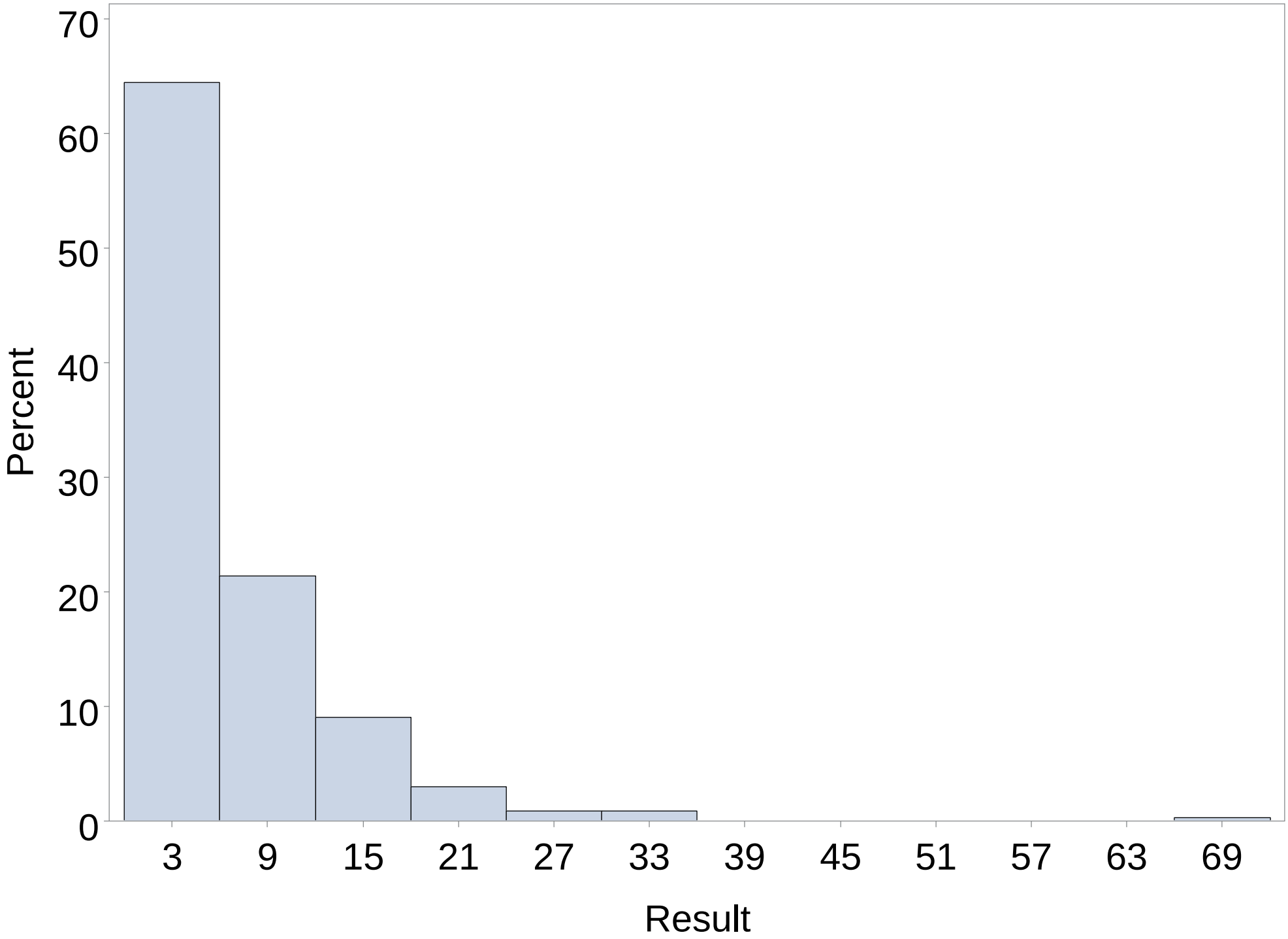
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.07406	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	71.000
99%	30.000
95%	18.000
90%	14.400
75% Q3	7.315
50% Median	4.700
25% Q1	2.800
10%	1.800
5%	1.200
1%	0.600
0% Min	0.400

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	137374	28.0	137595
0.4	137365	30.0	137548
0.6	137630	33.0	137583
0.6	137433	33.4	137451
0.6	137424	71.0	137464


Parameter=Total Suspended Solids (mg/L) STATION=6
Percent
70
60
50
40
30
20
10
0
3
9
15
21
27
33
39
45
51
57
63
69
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=7

Moments			
N	331	**Sum Weights**	331
Mean	8.95891239	**Sum Observations**	2965.4
Std Deviation	7.57227423	**Variance**	57.339337
Skewness	1.80522705	**Kurtosis**	3.61098215
Uncorrected SS	45488.74	**Corrected SS**	18921.9812
Coeff Variation	84.5222489	**Std Error Mean**	0.41620983

Basic Statistical Measures			
Location		**Variability**	
Mean	8.958912	**Std Deviation**	7.57227
Median	6.500000	**Variance**	57.33934
Mode	4.000000	**Range**	42.90000
		Interquartile Range	7.40000

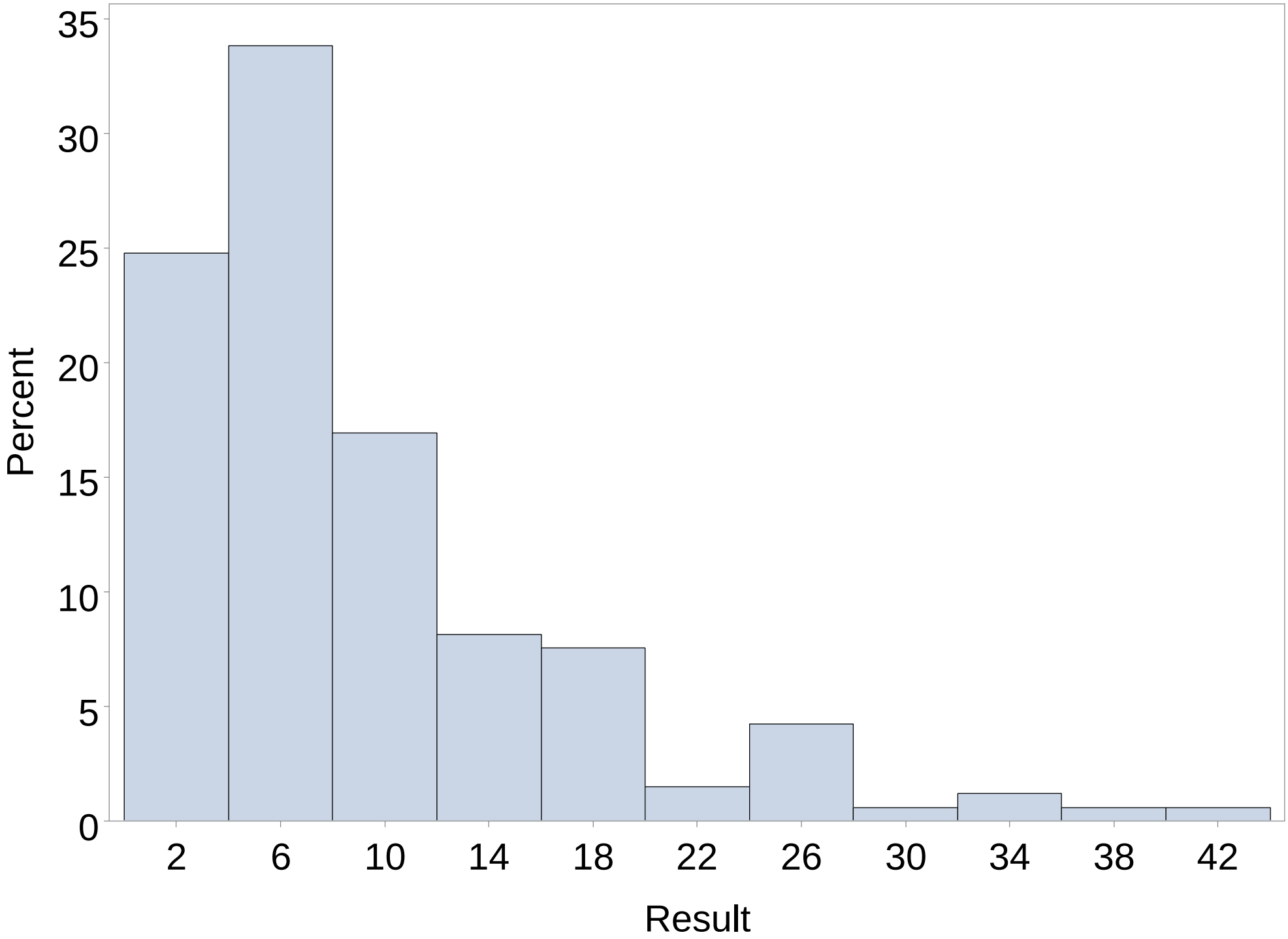
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	21.52499	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	43.0
99%	36.5
95%	25.0
90%	18.0
75% Q3	11.4
50% Median	6.5
25% Q1	4.0
10%	2.5
5%	2.0
1%	0.8
0% Min	0.1

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.1	137922	35.2	137995
0.6	137781	36.5	137803
0.6	137755	38.0	137914
0.8	137683	42.0	137796
1.0	137825	43.0	137876


Parameter=Total Suspended Solids (mg/L) STATION=7
Percent
0
5
10
15
20
25
30
35
2
6
10
14
18
22
26
30
34
38
42
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=8

Moments			
N	332	**Sum Weights**	332
Mean	12.300994	**Sum Observations**	4083.93
Std Deviation	11.4457222	**Variance**	131.004557
Skewness	2.87179385	**Kurtosis**	13.5764791
Uncorrected SS	93598.9067	**Corrected SS**	43362.5084
Coeff Variation	93.0471329	**Std Error Mean**	0.62816561

Basic Statistical Measures			
Location		**Variability**	
Mean	12.30099	**Std Deviation**	11.44572
Median	9.20000	**Variance**	131.00456
Mode	10.00000	**Range**	96.40000
		Interquartile Range	10.30000

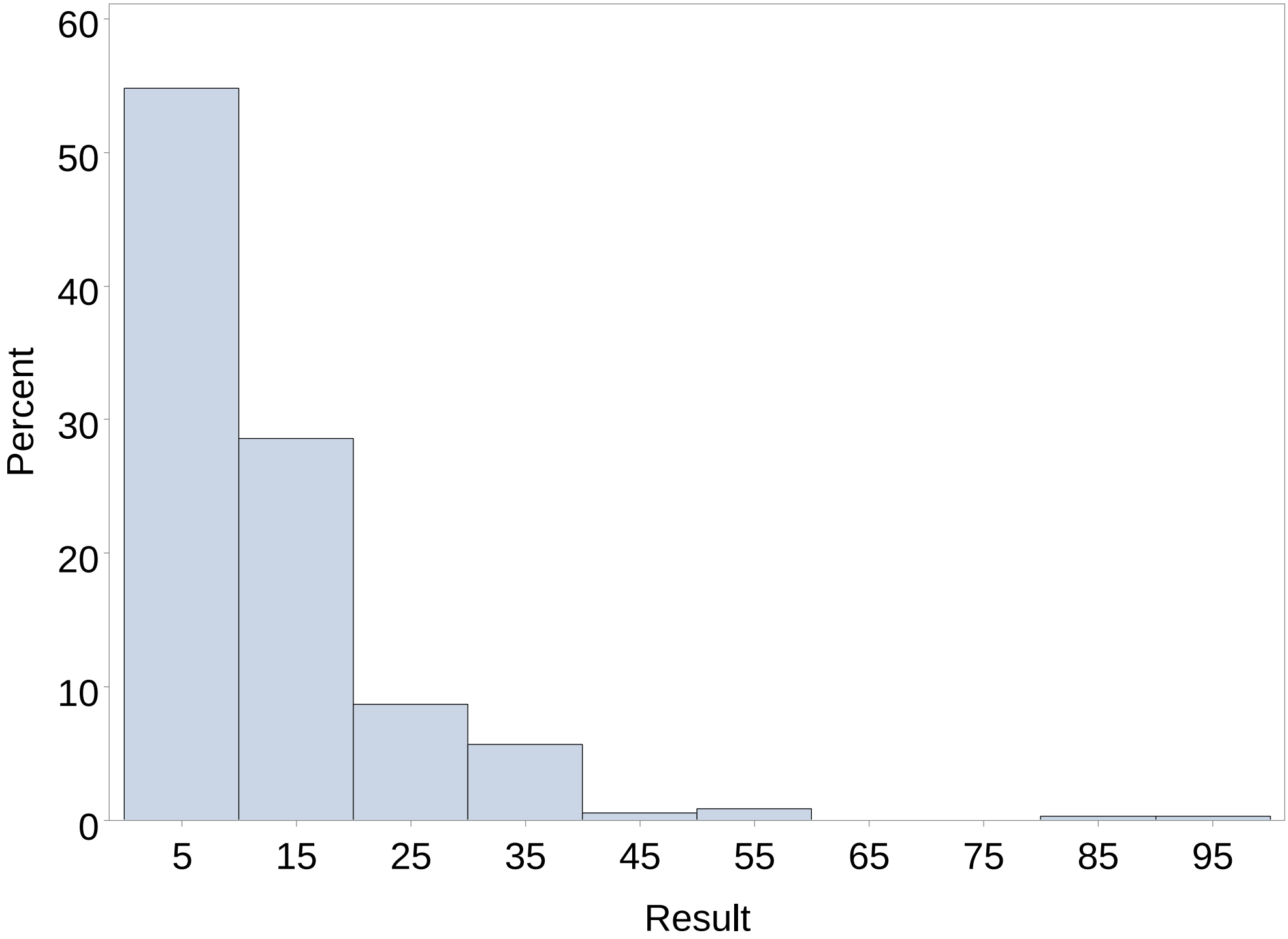
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.58241	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	97.0
99%	53.0
95%	33.0
90%	27.0
75% Q3	15.3
50% Median	9.2
25% Q1	5.0
10%	3.0
5%	2.2
1%	1.0
0% Min	0.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	138087	51	138131
0.6	138086	53	138127
1.0	138142	53	138256
1.0	138141	83	138208
1.0	138048	97	138239


Parameter=Total Suspended Solids (mg/L) STATION=8
Percent
60
50
40
30
20
10
0
5
15
25
35
45
55
65
75
85
95
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=9

Moments			
N	332	**Sum Weights**	332
Mean	12.8889458	**Sum Observations**	4279.13
Std Deviation	11.9895416	**Variance**	143.749107
Skewness	2.7901718	**Kurtosis**	13.442346
Uncorrected SS	102734.429	**Corrected SS**	47580.9543
Coeff Variation	93.0218946	**Std Error Mean**	0.65801158

Basic Statistical Measures			
Location		**Variability**	
Mean	12.88895	**Std Deviation**	11.98954
Median	9.20000	**Variance**	143.74911
Mode	8.00000	**Range**	100.40000
		Interquartile Range	12.20000

Note: The mode displayed is the smallest of 2 modes with a count of 10.

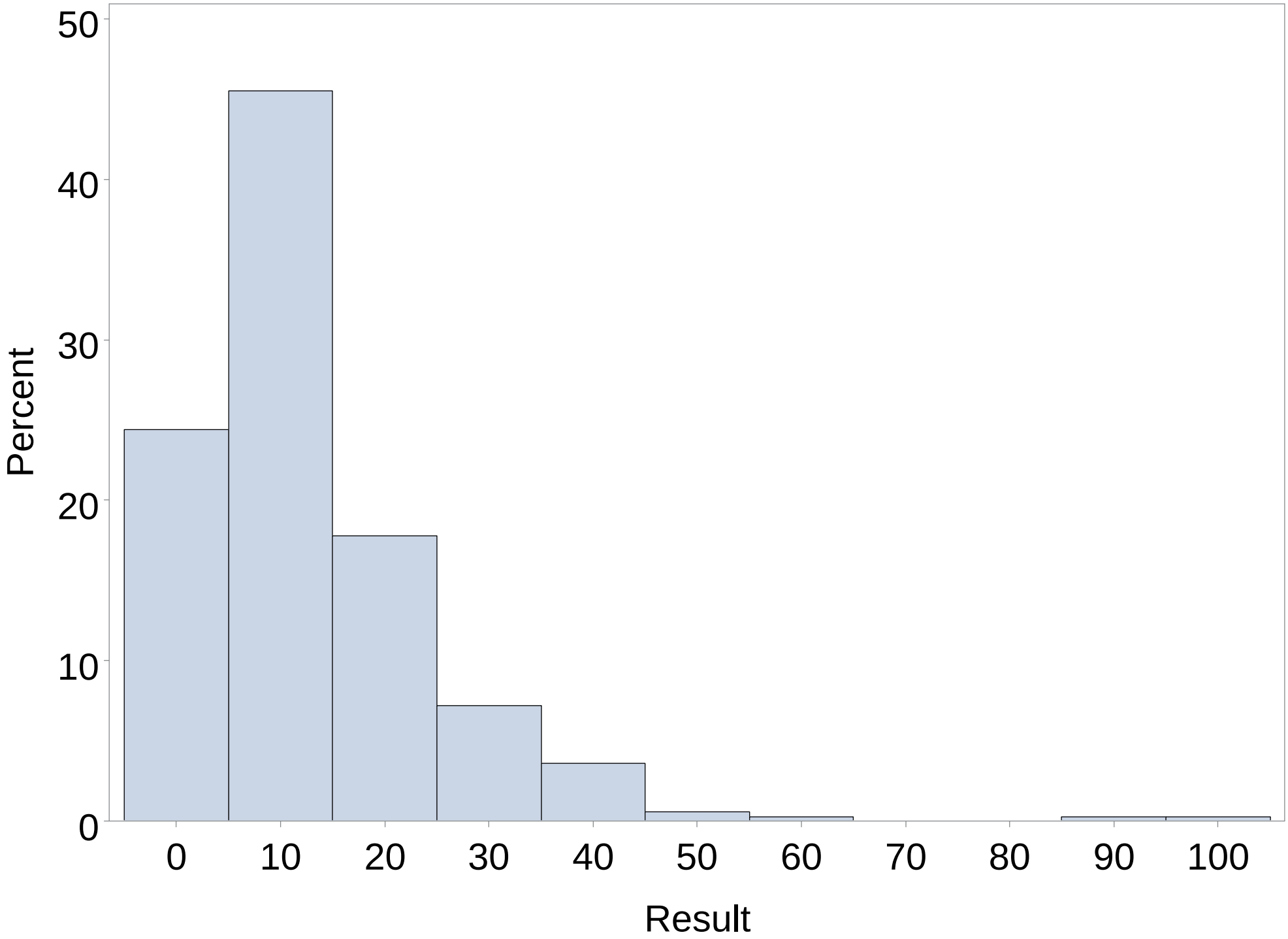
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	19.58772	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	101.0
99%	53.0
95%	35.0
90%	28.0
75% Q3	17.2
50% Median	9.2
25% Q1	5.0
10%	2.8
5%	2.0
1%	1.0
0% Min	0.6

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Total Suspended Solids (mg/L) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.6	138419	52.4	138502
0.7	138403	53.0	138552
1.0	138485	58.0	138547
1.0	138474	88.4	138365
1.2	138479	101.0	138459


Parameter=Total Suspended Solids (mg/L) STATION=9
Percent
50
40
30
20
10
0
0
10
20
30
40
50
60
70
80
90
100
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=1

Moments			
N	331	**Sum Weights**	331
Mean	4.51108761	**Sum Observations**	1493.17
Std Deviation	2.70171113	**Variance**	7.29924306
Skewness	3.18005228	**Kurtosis**	20.262535
Uncorrected SS	9144.5709	**Corrected SS**	2408.75021
Coeff Variation	59.8904603	**Std Error Mean**	0.14849947

Basic Statistical Measures			
Location		**Variability**	
Mean	4.511088	**Std Deviation**	2.70171
Median	4.100000	**Variance**	7.29924
Mode	3.200000	**Range**	27.60000
		Interquartile Range	2.70000

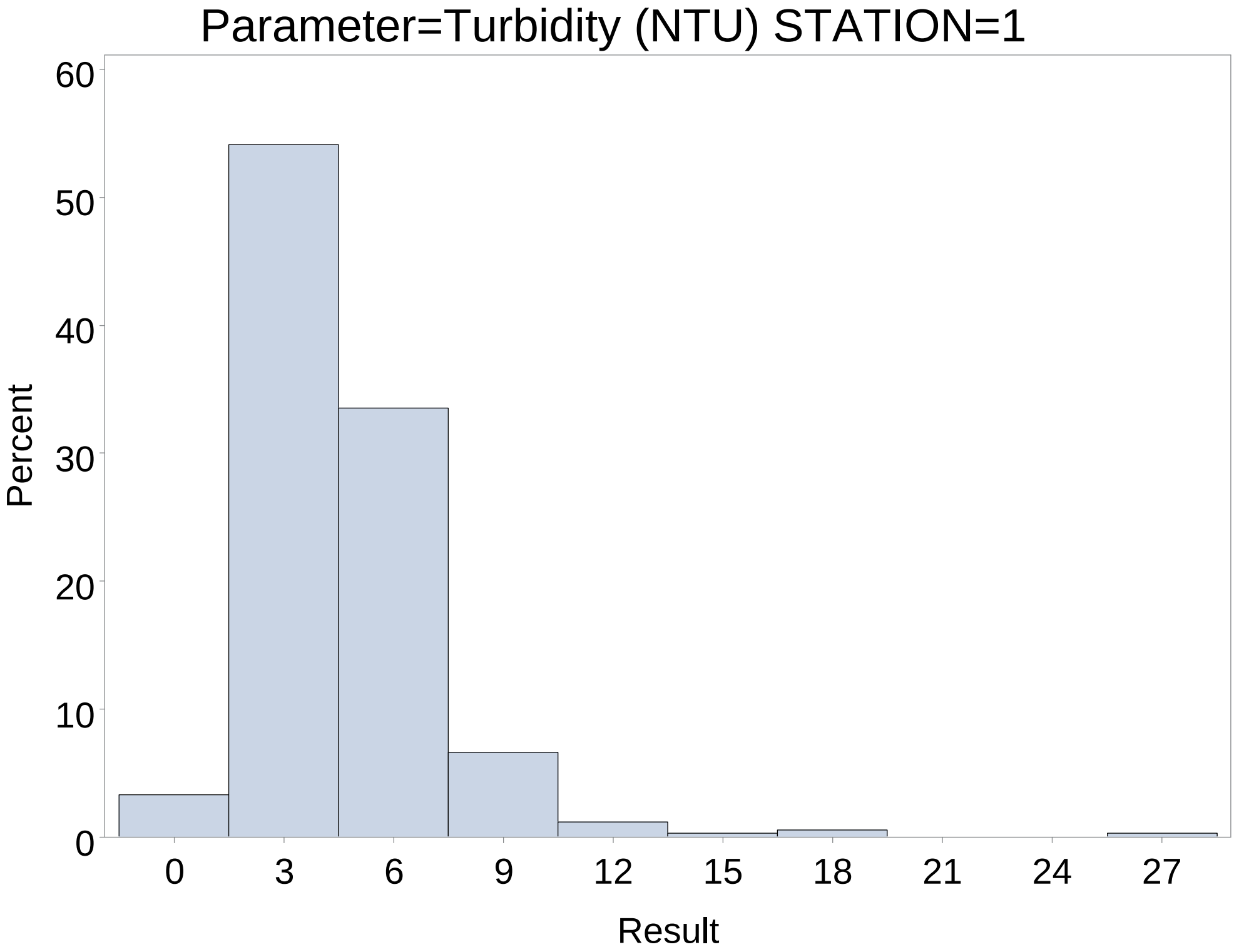
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	30.3778	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	28.0
99%	14.0
95%	8.6
90%	7.2
75% Q3	5.5
50% Median	4.1
25% Q1	2.8
10%	2.0
5%	1.6
1%	0.8
0% Min	0.4

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=1

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.4	138931	12.4	138856
0.5	138969	14.0	138968
0.5	138964	16.9	138712
0.8	138792	19.0	138970
1.0	138759	28.0	138831


Parameter=Turbidity (NTU) STATION=1
Percent
60
50
40
30
20
10
0
0
3
6
9
12
15
18
21
24
27
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=2

Moments			
N	332	**Sum Weights**	332
Mean	3.39060241	**Sum Observations**	1125.68
Std Deviation	2.42725392	**Variance**	5.89156157
Skewness	3.84234512	**Kurtosis**	24.9859818
Uncorrected SS	5766.8402	**Corrected SS**	1950.10688
Coeff Variation	71.5876892	**Std Error Mean**	0.13321286

Basic Statistical Measures			
Location		**Variability**	
Mean	3.390602	**Std Deviation**	2.42725
Median	2.800000	**Variance**	5.89156
Mode	2.400000	**Range**	24.90000
		Interquartile Range	2.15000

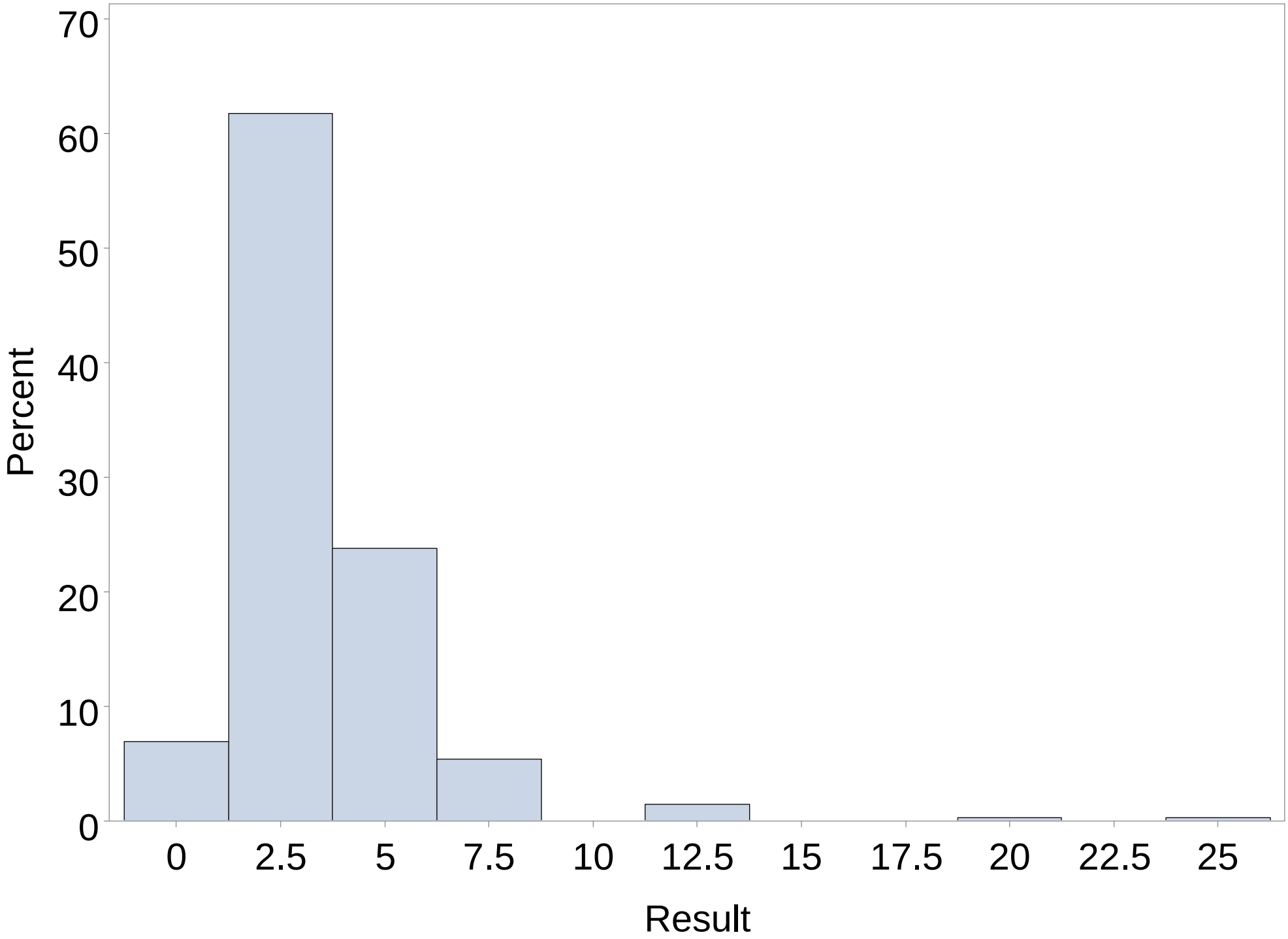
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	25.45251	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	25.00
99%	13.00
95%	7.10
90%	5.70
75% Q3	4.15
50% Median	2.80
25% Q1	2.00
10%	1.40
5%	1.20
1%	0.60
0% Min	0.10

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=2

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.10	139262	12.1	139185
0.50	139301	13.0	139268
0.50	139296	13.0	139316
0.60	139123	19.0	139302
0.85	139286	25.0	139314


Parameter=Turbidity (NTU) STATION=2
Percent
70
60
50
40
30
20
10
0
0
2.5
5
7.5
10
12.5
15
17.5
20
22.5
25
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=3

Moments			
N	332	**Sum Weights**	332
Mean	3.57292169	**Sum Observations**	1186.21
Std Deviation	3.61669453	**Variance**	13.0804794
Skewness	9.04504279	**Kurtosis**	111.455091
Uncorrected SS	8567.8741	**Corrected SS**	4329.63867
Coeff Variation	101.225128	**Std Error Mean**	0.1984919

Basic Statistical Measures			
Location		**Variability**	
Mean	3.572922	**Std Deviation**	3.61669
Median	3.100000	**Variance**	13.08048
Mode	2.000000	**Range**	52.80000
		Interquartile Range	1.90000

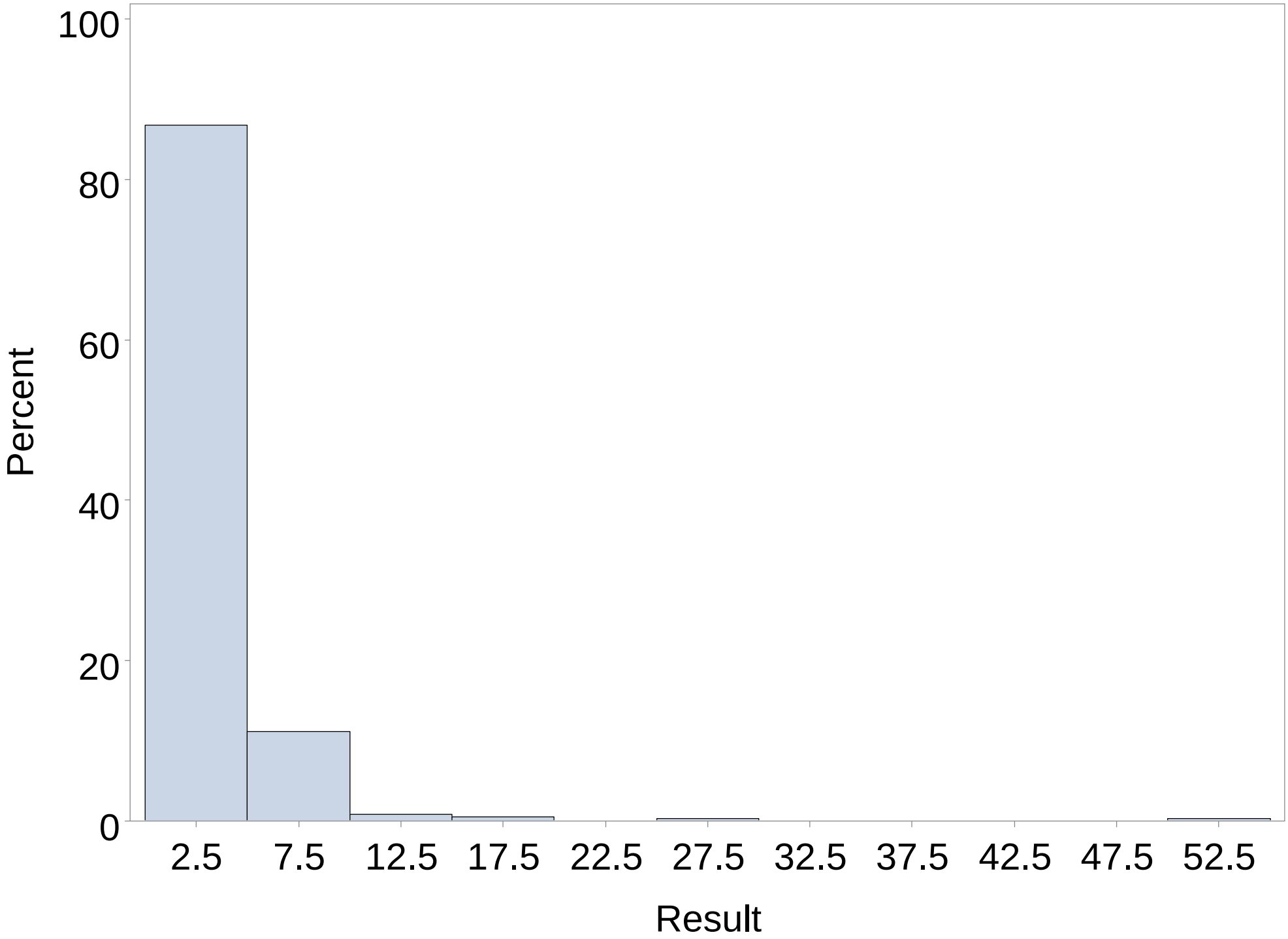
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	18.00034	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	53.0
99%	17.0
95%	7.2
90%	5.2
75% Q3	4.0
50% Median	3.1
25% Q1	2.1
10%	1.5
5%	1.2
1%	0.7
0% Min	0.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=3

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	139594	11.0	139605
0.5	139633	17.0	139613
0.5	139628	18.6	139538
0.7	139456	27.0	139616
0.9	139455	53.0	139638


Parameter=Turbidity (NTU) STATION=3
Percent
100
80
60
40
20
0
2.5
7.5
12.5
17.5
22.5
27.5
32.5
37.5
42.5
47.5
52.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=4

Moments			
N	331	**Sum Weights**	331
Mean	3.00501511	**Sum Observations**	994.66
Std Deviation	1.11408296	**Variance**	1.24118083
Skewness	0.70212808	**Kurtosis**	0.74622969
Uncorrected SS	3398.558	**Corrected SS**	409.589675
Coeff Variation	37.0741217	**Std Error Mean**	0.06123554

Basic Statistical Measures			
Location		**Variability**	
Mean	3.005015	**Std Deviation**	1.11408
Median	2.900000	**Variance**	1.24118
Mode	2.100000	**Range**	6.90000
		Interquartile Range	1.50000

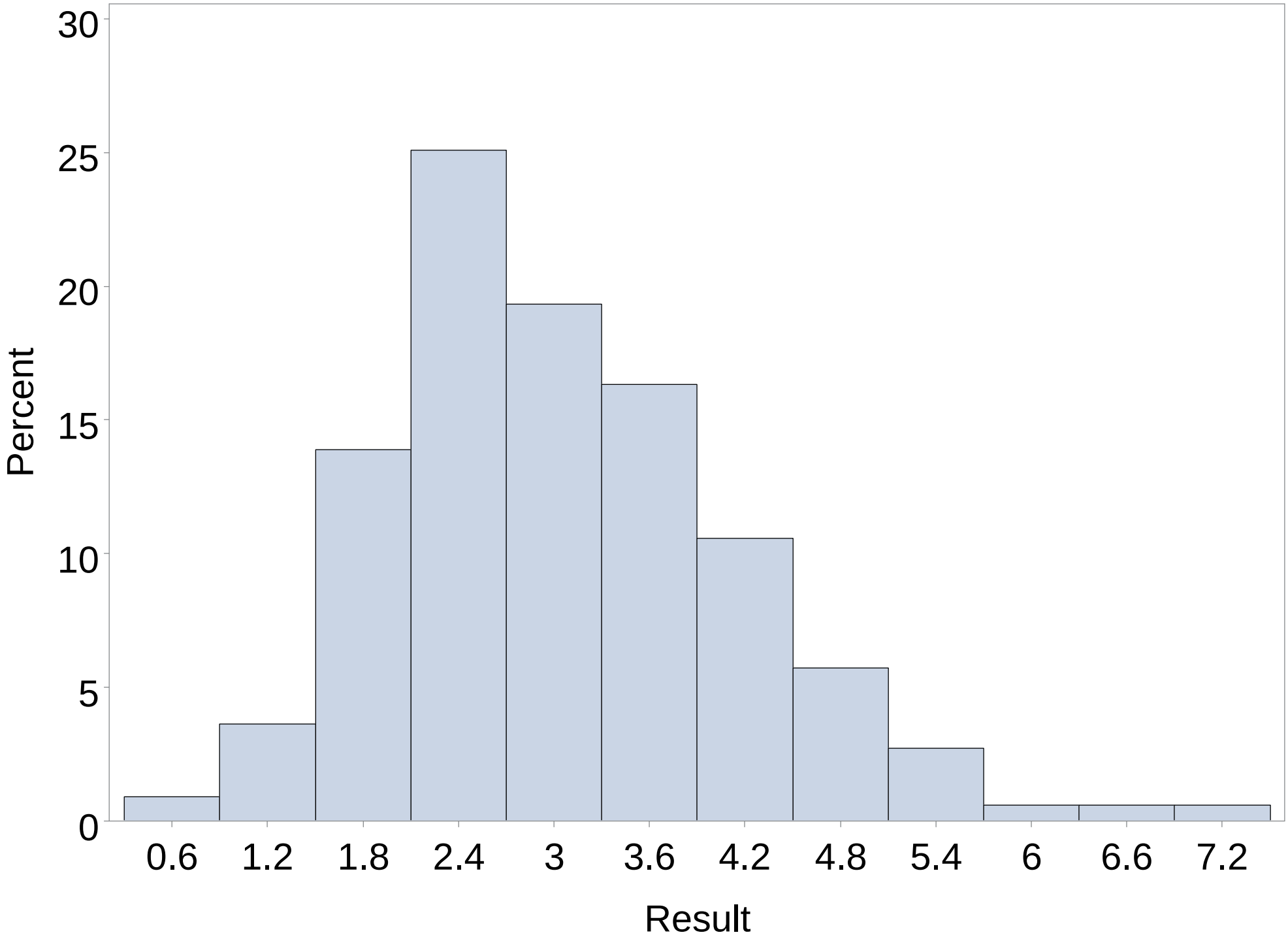
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	49.07306	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	7.2
99%	6.4
95%	5.0
90%	4.5
75% Q3	3.7
50% Median	2.9
25% Q1	2.2
10%	1.8
5%	1.5
1%	1.1
0% Min	0.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=4

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	139925	6.2	139870
0.5	139959	6.4	139963
0.7	139782	6.5	139912
1.1	139754	6.9	139840
1.1	139751	7.2	139965


Parameter=Turbidity (NTU) STATION=4
Percent
30
25
20
15
10
5
0
0.6
1.2
1.8
2.4
3
3.6
4.2
4.8
5.4
6
6.6
7.2
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=5

Moments			
N	332	**Sum Weights**	332
Mean	2.90195783	**Sum Observations**	963.45
Std Deviation	1.1297146	**Variance**	1.27625507
Skewness	1.38368632	**Kurtosis**	3.59632158
Uncorrected SS	3218.3317	**Corrected SS**	422.440427
Coeff Variation	38.9293939	**Std Error Mean**	0.06200114

Basic Statistical Measures			
Location		**Variability**	
Mean	2.901958	**Std Deviation**	1.12971
Median	2.800000	**Variance**	1.27626
Mode	2.800000	**Range**	7.80000
		Interquartile Range	1.30000

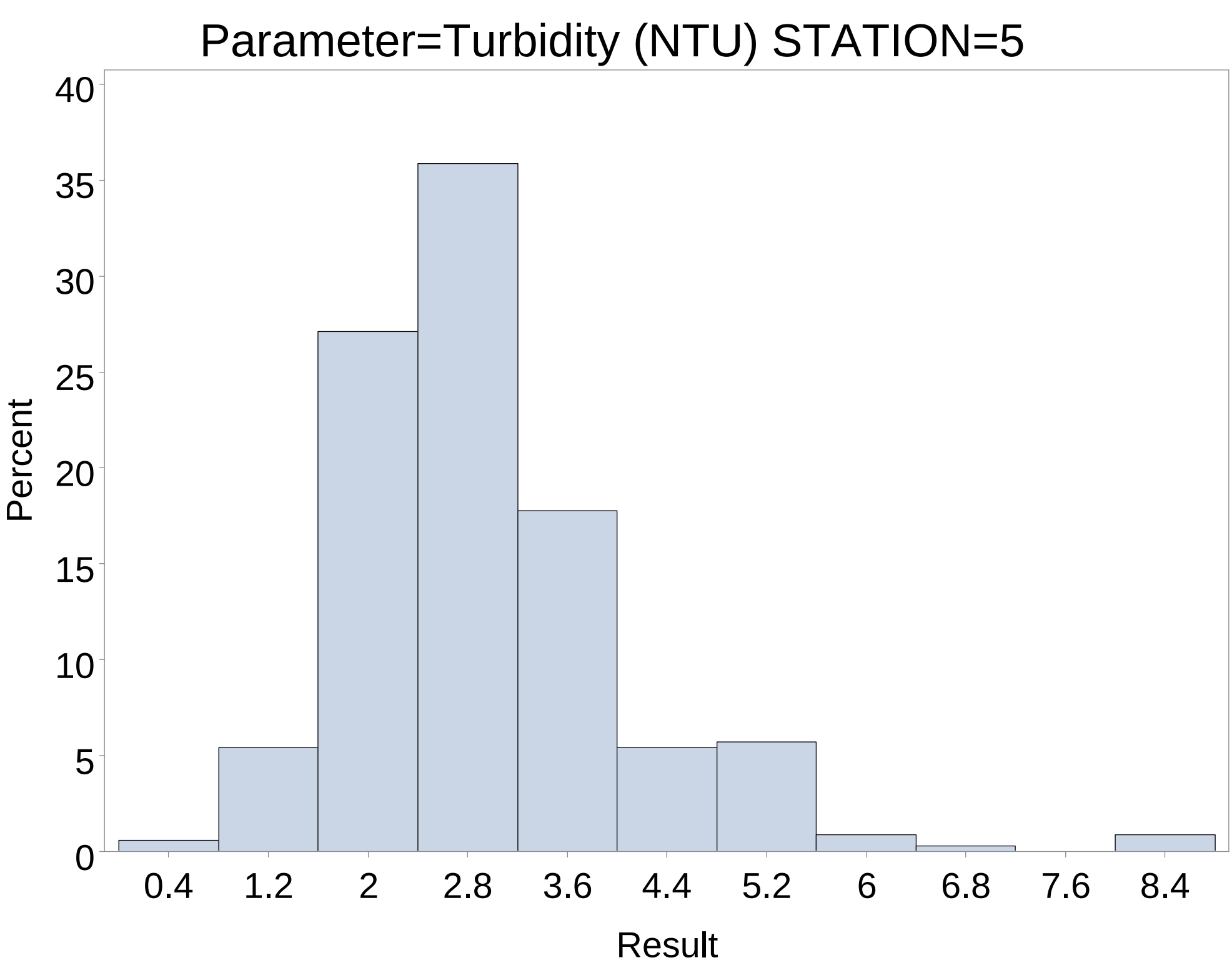
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	46.80491	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	8.1
99%	6.9
95%	5.0
90%	4.2
75% Q3	3.4
50% Median	2.8
25% Q1	2.1
10%	1.7
5%	1.5
1%	1.0
0% Min	0.3

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=5

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	140257	6.39	140315
0.5	140291	6.90	140235
1.0	140296	8.00	140033
1.0	140123	8.00	140201
1.1	140085	8.10	140237


Parameter=Turbidity (NTU) STATION=5
Percent
40
35
30
25
20
15
10
5
0
0.4
1.2
2
2.8
3.6
4.4
5.2
6
6.8
7.6
8.4
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=6

Moments			
N	332	**Sum Weights**	332
Mean	3.16635542	**Sum Observations**	1051.23
Std Deviation	1.46929612	**Variance**	2.15883109
Skewness	2.10880504	**Kurtosis**	9.67913472
Uncorrected SS	4043.1409	**Corrected SS**	714.57309
Coeff Variation	46.4033857	**Std Error Mean**	0.0806381

Basic Statistical Measures			
Location		**Variability**	
Mean	3.166355	**Std Deviation**	1.46930
Median	2.900000	**Variance**	2.15883
Mode	2.300000	**Range**	13.80000
		Interquartile Range	1.50000

Note: The mode displayed is the smallest of 4 modes with a count of 14.

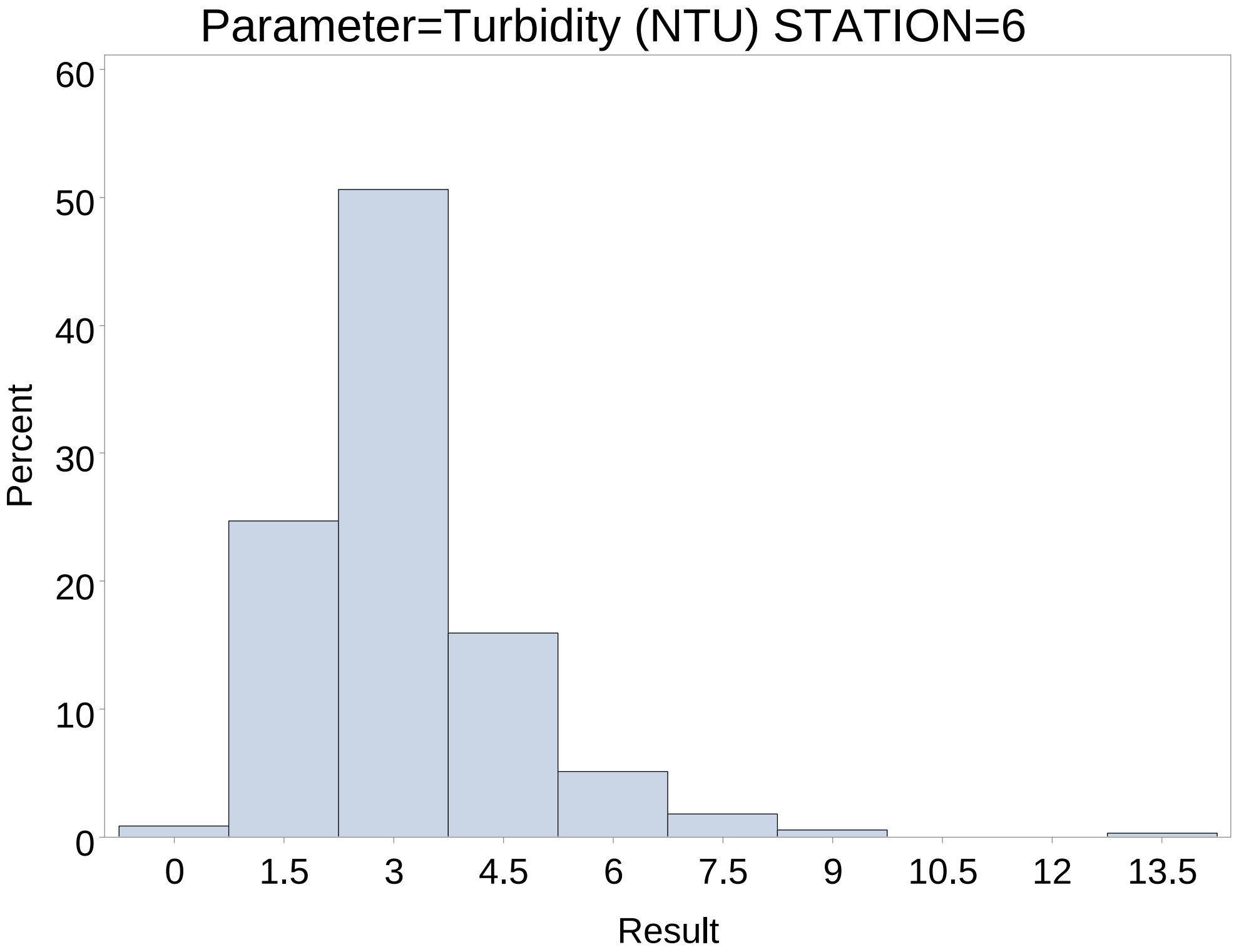
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	39.26625	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	14.0
99%	8.1
95%	5.9
90%	4.8
75% Q3	3.7
50% Median	2.9
25% Q1	2.2
10%	1.8
5%	1.4
1%	1.1
0% Min	0.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=6

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	140589	7.8	140340
0.5	140628	8.1	140562
0.5	140623	8.4	140612
1.1	140439	8.5	140567
1.1	140429	14.0	140568


Parameter=Turbidity (NTU) STATION=6
Percent
60
50
40
30
20
10
0
0
1.5
3
4.5
6
7.5
9
10.5
12
13.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=7

Moments			
N	331	**Sum Weights**	331
Mean	3.99241692	**Sum Observations**	1321.49
Std Deviation	2.02274571	**Variance**	4.0915002
Skewness	1.35399464	**Kurtosis**	2.6609098
Uncorrected SS	6626.1341	**Corrected SS**	1350.19507
Coeff Variation	50.6646913	**Std Error Mean**	0.11118016

Basic Statistical Measures			
Location		**Variability**	
Mean	3.992417	**Std Deviation**	2.02275
Median	3.700000	**Variance**	4.09150
Mode	2.500000	**Range**	12.80000
		Interquartile Range	2.40000

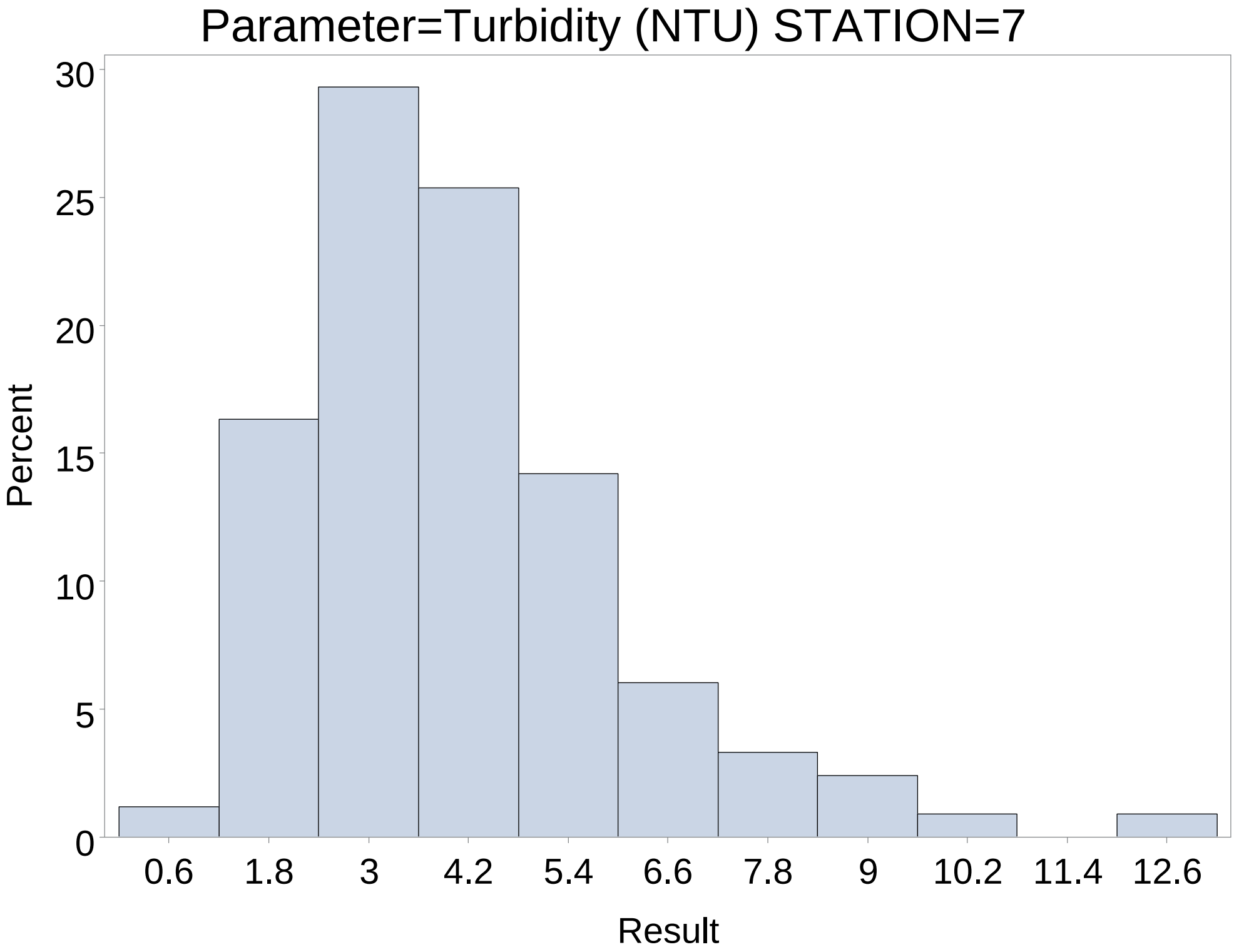
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	35.90944	**Pr > |t|**	<.0001
Sign	**M**	165.5	**Pr >= |M|**	<.0001
Signed Rank	**S**	27473	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	13.0
99%	10.0
95%	8.1
90%	6.6
75% Q3	4.9
50% Median	3.7
25% Q1	2.5
10%	1.9
5%	1.5
1%	1.1
0% Min	0.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=7

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.2	140920	9.9	140980
0.5	140959	10.0	140898
0.5	140954	12.3	140697
1.1	140749	12.6	140861
1.2	140765	13.0	140899


Parameter=Turbidity (NTU) STATION=7
Percent
30
25
20
15
10
5
0
0.6
1.8
3
4.2
5.4
6.6
7.8
9
10.2
11.4
12.6
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=8

Moments			
N	332	**Sum Weights**	332
Mean	5.27123494	**Sum Observations**	1750.05
Std Deviation	3.59441888	**Variance**	12.9198471
Skewness	3.07062287	**Kurtosis**	15.2256115
Uncorrected SS	13501.3941	**Corrected SS**	4276.46939
Coeff Variation	68.1893128	**Std Error Mean**	0.19726936

Basic Statistical Measures			
Location		**Variability**	
Mean	5.271235	**Std Deviation**	3.59442
Median	4.200000	**Variance**	12.91985
Mode	2.600000	**Range**	32.10000
		Interquartile Range	3.20000

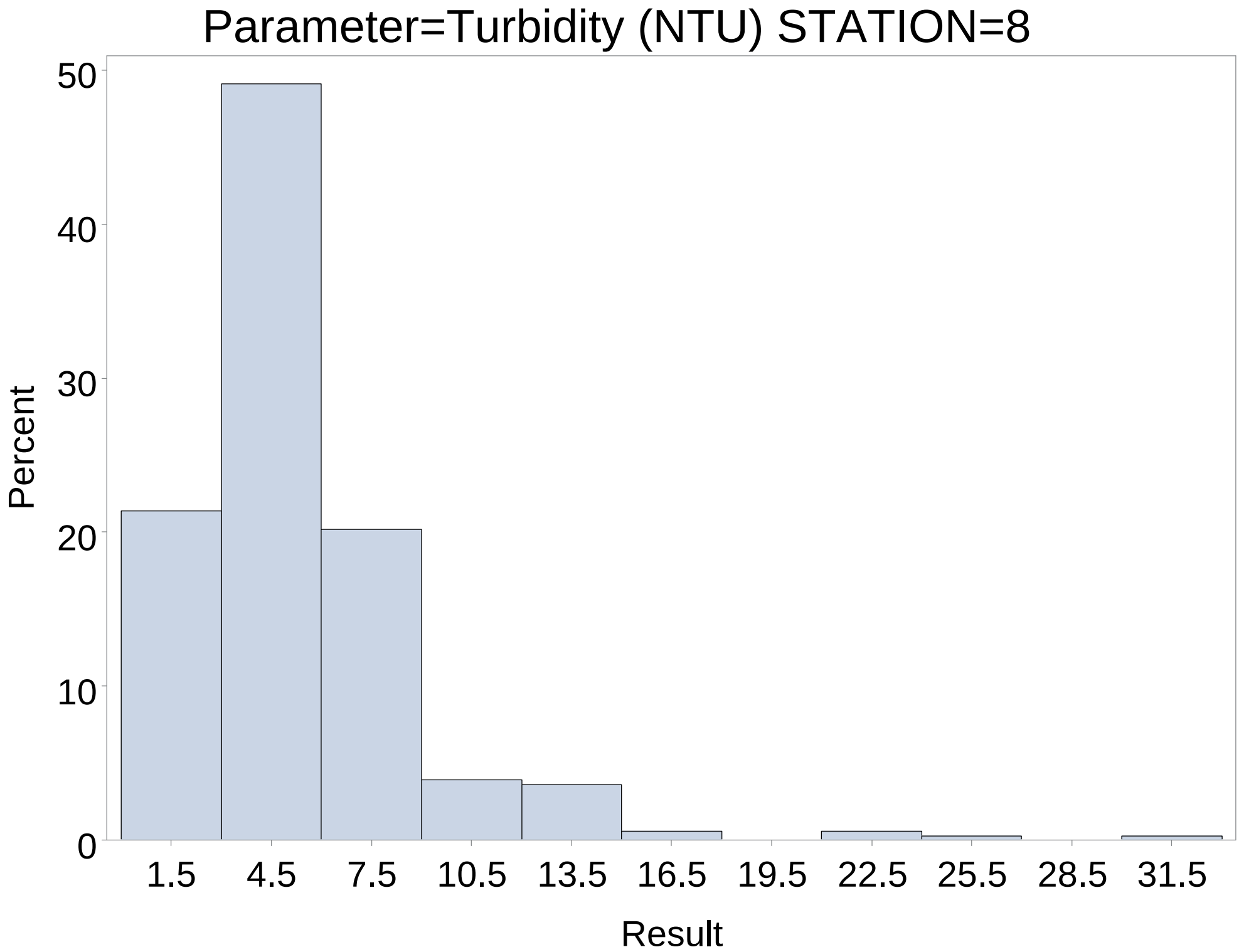
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	26.721	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	32.3
99%	21.0
95%	12.0
90%	8.7
75% Q3	6.3
50% Median	4.2
25% Q1	3.1
10%	2.4
5%	1.9
1%	1.2
0% Min	0.2

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=8

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.20	141252	17.1	141028
0.50	141291	21.0	141224
0.51	141286	23.8	141193
1.20	141080	26.0	141293
1.50	141262	32.3	141143


Parameter=Turbidity (NTU) STATION=8
Percent
50
40
30
20
10
0
1.5
4.5
7.5
10.5
13.5
16.5
19.5
22.5
25.5
28.5
31.5
Result

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=9

Moments			
N	332	**Sum Weights**	332
Mean	4.78222892	**Sum Observations**	1587.7
Std Deviation	3.76065951	**Variance**	14.14256
Skewness	5.08200571	**Kurtosis**	40.9157964
Uncorrected SS	12273.9322	**Corrected SS**	4681.18735
Coeff Variation	78.6382162	**Std Error Mean**	0.206393

Basic Statistical Measures			
Location		**Variability**	
Mean	4.782229	**Std Deviation**	3.76066
Median	3.900000	**Variance**	14.14256
Mode	2.900000	**Range**	39.70000
		Interquartile Range	2.60000

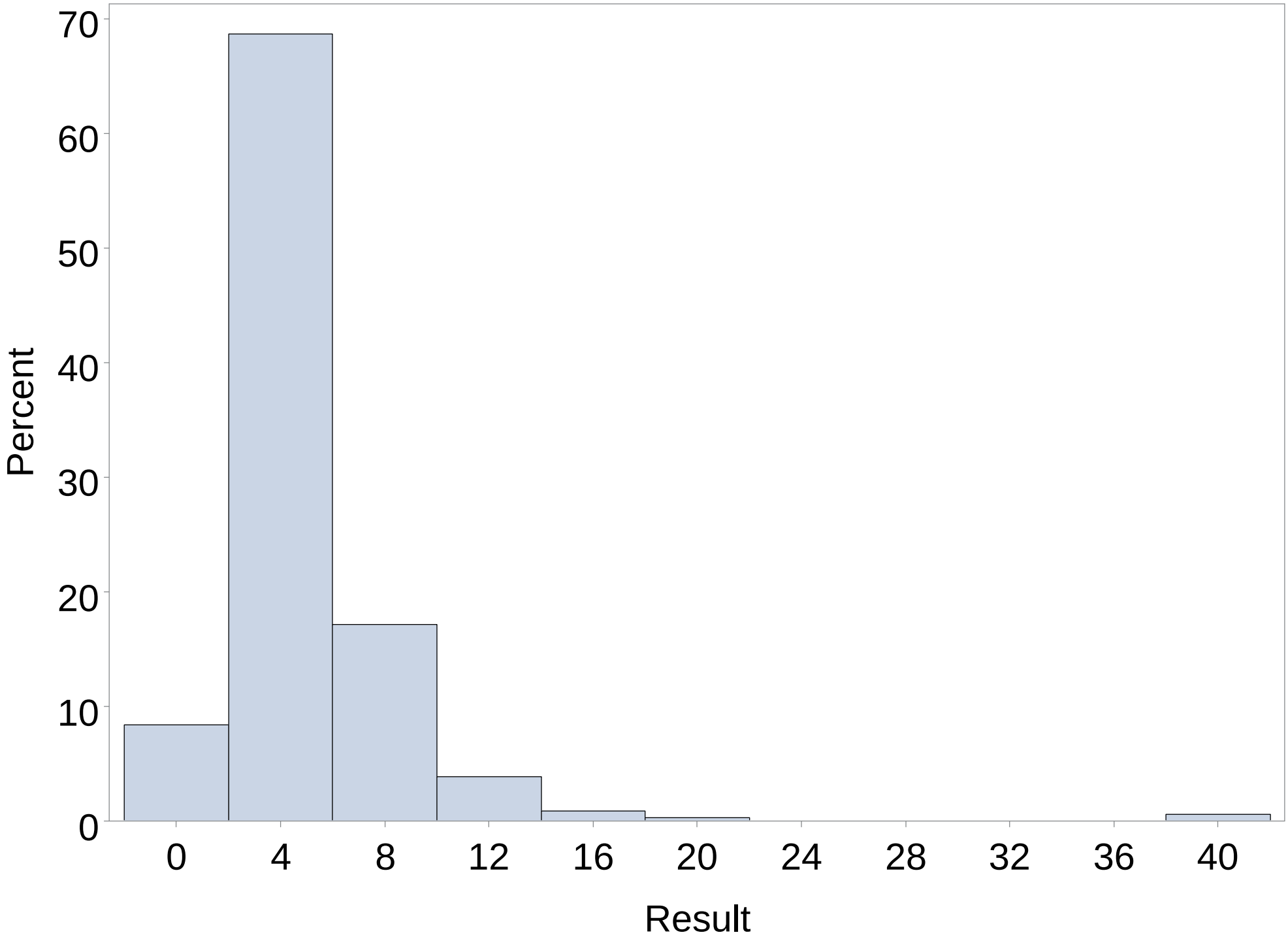
Tests for Location: Mu0=0				
Test	**Statistic**		**p Value**	
Student's t	**t**	23.1705	**Pr > |t|**	<.0001
Sign	**M**	166	**Pr >= |M|**	<.0001
Signed Rank	**S**	27639	**Pr >= |S|**	<.0001

Quantiles (Definition 5)	
Level	**Quantile**
100% Max	40.00
99%	15.70
95%	10.00
90%	8.50
75% Q3	5.45
50% Median	3.90
25% Q1	2.85
10%	2.10
5%	1.60
1%	0.60
0% Min	0.30

The UNIVARIATE Procedure
Variable: Result (Result)

Parameter=Turbidity (NTU) STATION=9

Extreme Observations			
Lowest		Highest	
Value	Obs	Value	Obs
0.3	141584	15.0	141487
0.5	141623	15.7	141476
0.5	141618	18.4	141354
0.6	141533	38.0	141562
1.1	141544	40.0	141350


Parameter=Turbidity (NTU) STATION=9
Percent
70
60
50
40
30
20
10
0
0
4
8
12
16
20
24
28
32
36
40
Result

APPENDIX E

Shell Creek HBMP Water Quality Data Removed From Analyses

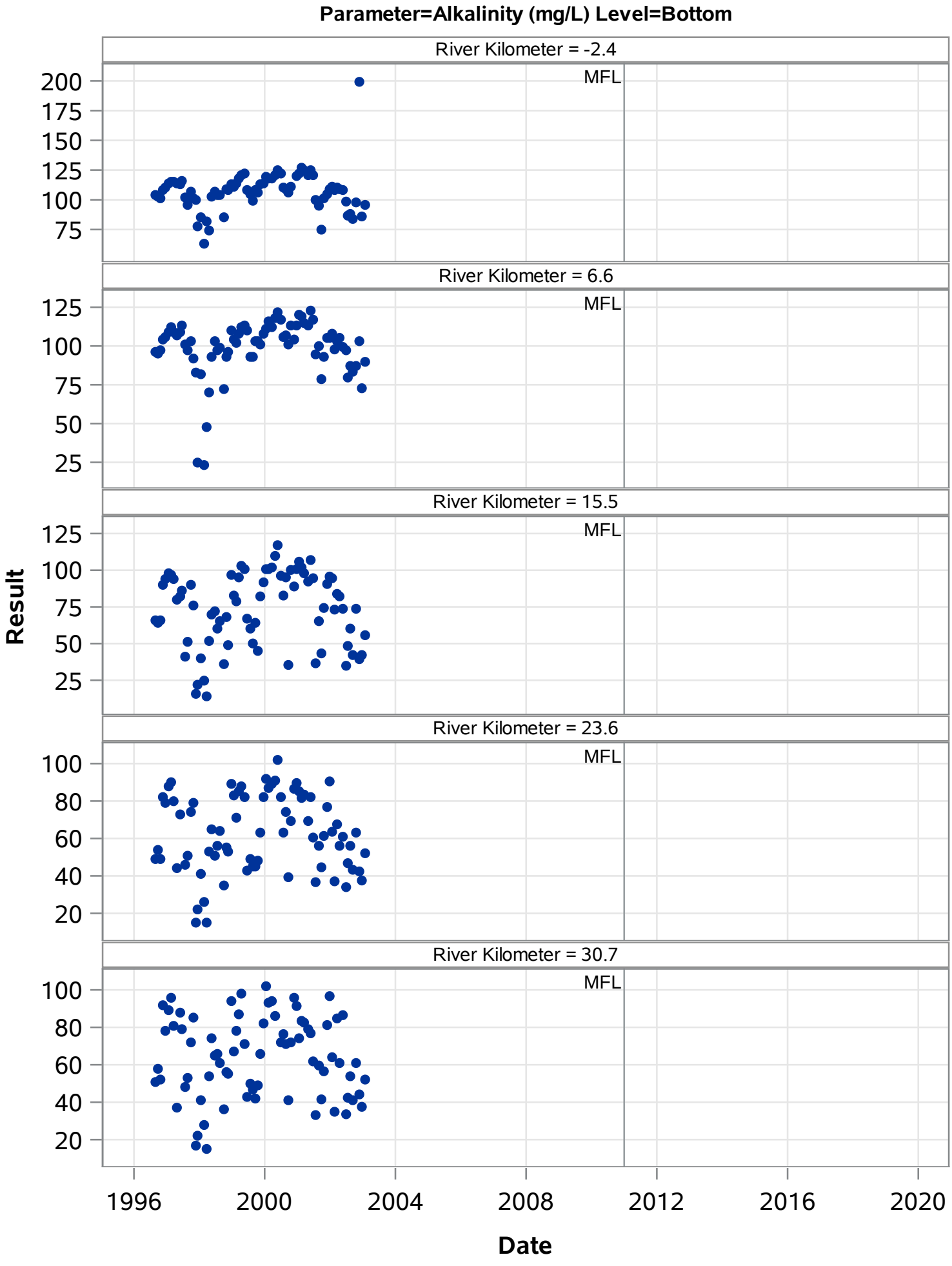
Obs	parameter	DATE	STATION	Result	DEPTH
1	Depth	15JUL2009	1	-99	.
2	Depth	15JUL2009	2	-99	.
3	Depth	15JUL2009	3	-99	.
4	Depth	15JUL2009	4	-99	.
5	Depth	15JUL2009	5	-99	.
6	Depth	15JUL2009	6	-99	.
7	Depth	15JUL2009	7	-99	.
8	Depth	15JUL2009	8	-99	.
9	Depth	15JUL2009	9	-99	.
10	TKN	13APR2011	9	6.9	.
11	TN	13APR2011	9	7	.
12	TKN	13JUN2013	2	15	.
13	TN	13JUN2013	2	15.16	.
14	TP	04JUN2015	5	37	.
15	TP	04JUN2015	6	14	.
16	SAL_Surface	13FEB2007	16	1571	0.5
17	SAL_Surface	05FEB2008	17	31360	0.5
18	SAL_Bottom	05FEB2008	17	31367	1
19	SAL_Surface	05FEB2008	18	27170	0.5
20	SAL_Bottom	05FEB2008	18	27588	3
21	SAL_Surface	05FEB2008	19	34490	0.5
22	SAL_Bottom	05FEB2008	19	34804	1.5
23	COND_Bottom	09MAR2011	6	121506	2
24	COND_Bottom	08MAR2012	7	213469	1.5
25	COND_Bottom	11APR2012	7	311142	2
26	SAL_Surface	09JAN2014	8	1258	0
27	DO_Bottom	10APR2014	14	69.07	1
28	PH_Bottom	12JUN2014	12	735	2
29	PH_Bottom	09OCT2014	19	672	1.5
30	DO_Bottom	05FEB2015	8	69.72	1
31	PH_Bottom	05FEB2015	16	733	1.5
32	DO_Bottom	08DEC2016	2	63.21	3
33	COND_Bottom	08DEC2016	10	190108	1
34	DO_Surface	09MAR2017	3	695	0
35	TEMP	21JAN2000	2	.	.
36	TEMP	21JAN2000	8	.	.
37	TEMP	04AUG2000	8	.	.
38	TEMP	04AUG2000	18	.	.
39	TEMP	08SEP2000	16	.	.

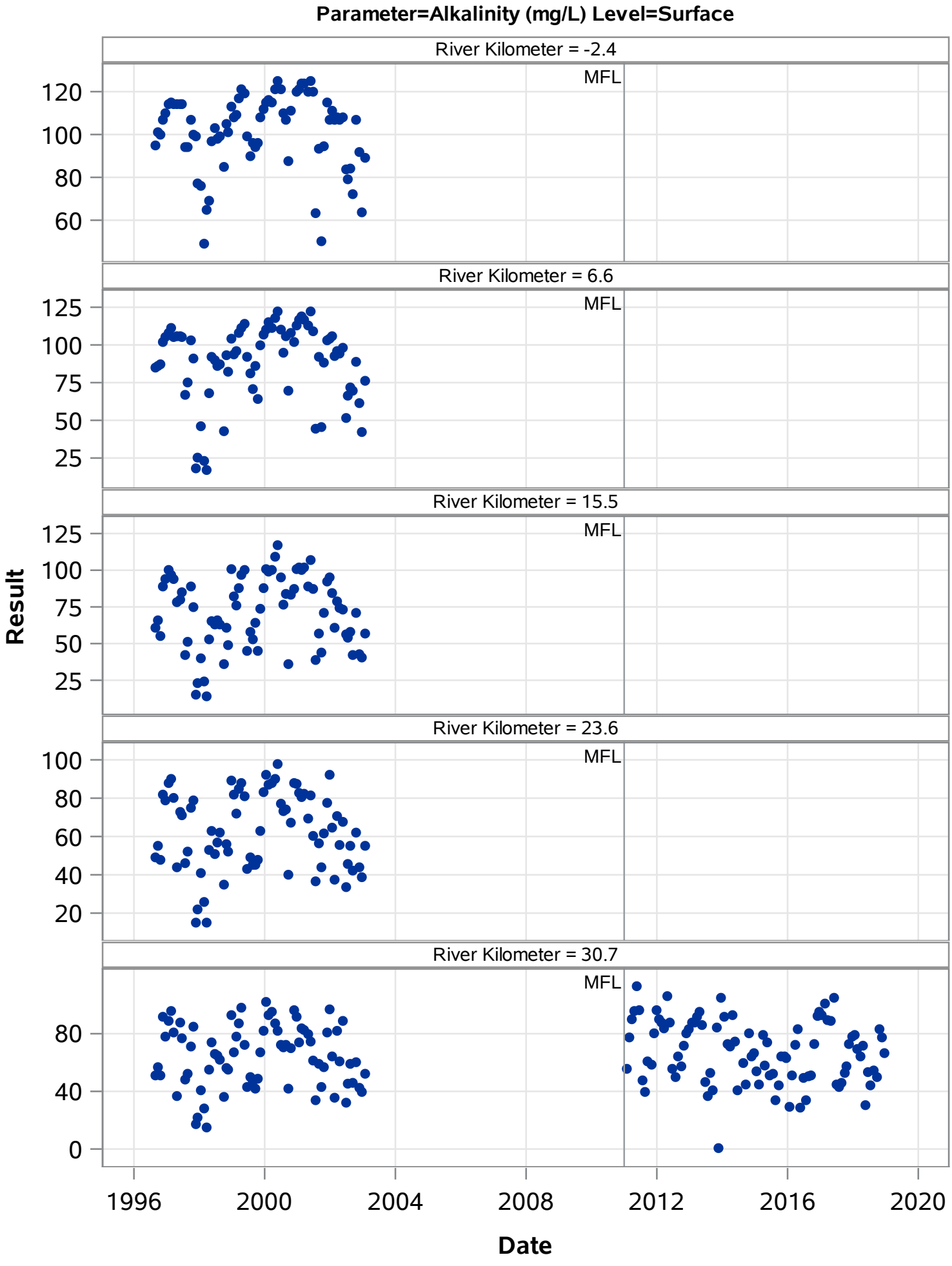
Obs	parameter	DATE	STATION	Result	DEPTH
40	TEMP	05OCT2000	12	.	.
41	TEMP	05OCT2000	17	.	.
42	TEMP	06NOV2000	5	.	.
43	TEMP	15AUG2003	6	.	.
44	TEMP	15AUG2003	7	.	.
45	TEMP	15AUG2003	8	.	.
46	TEMP	15AUG2003	9	.	.
47	TEMP	15AUG2003	14	.	.
48	TEMP	15AUG2003	15	.	.
49	TEMP	15AUG2003	16	.	.
50	TEMP	15AUG2003	17	.	.
51	TEMP	15AUG2003	18	.	.
52	TEMP	15AUG2003	19	.	.
53	COND	03OCT2006	9	133382	2.5
54	TEMP	16JAN2007	19	-99	-99
55	SAL	13FEB2007	16	1571	0.5
56	TEMP	17JUL2007	10	-99	1
57	TEMP	13NOV2007	8	-99	1
58	COND	04DEC2007	11	147707	1
59	SAL	05FEB2008	17	31360	0.5
60	SAL	05FEB2008	17	31367	1
61	SAL	05FEB2008	18	27170	0.5
62	SAL	05FEB2008	18	27485	1
63	SAL	05FEB2008	18	27495	1.5
64	SAL	05FEB2008	18	27543	2
65	SAL	05FEB2008	18	27592	2.5
66	SAL	05FEB2008	18	27588	3
67	SAL	05FEB2008	19	34490	0.5
68	SAL	05FEB2008	19	34683	1
69	SAL	05FEB2008	19	34804	1.5
70	SAL	14OCT2008	7	152	0.5
71	COND	09MAR2011	6	121506	2
72	SAL	13APR2011	18	1356	1
73	COND	04MAY2011	9	213356	1
74	SAL	09JUN2011	18	1737	2.5
75	COND	08MAR2012	7	213469	1.5
76	COND	11APR2012	7	311142	2
77	COND	11APR2012	15	287520	1.5
78	COND	06DEC2012	18	181114	1

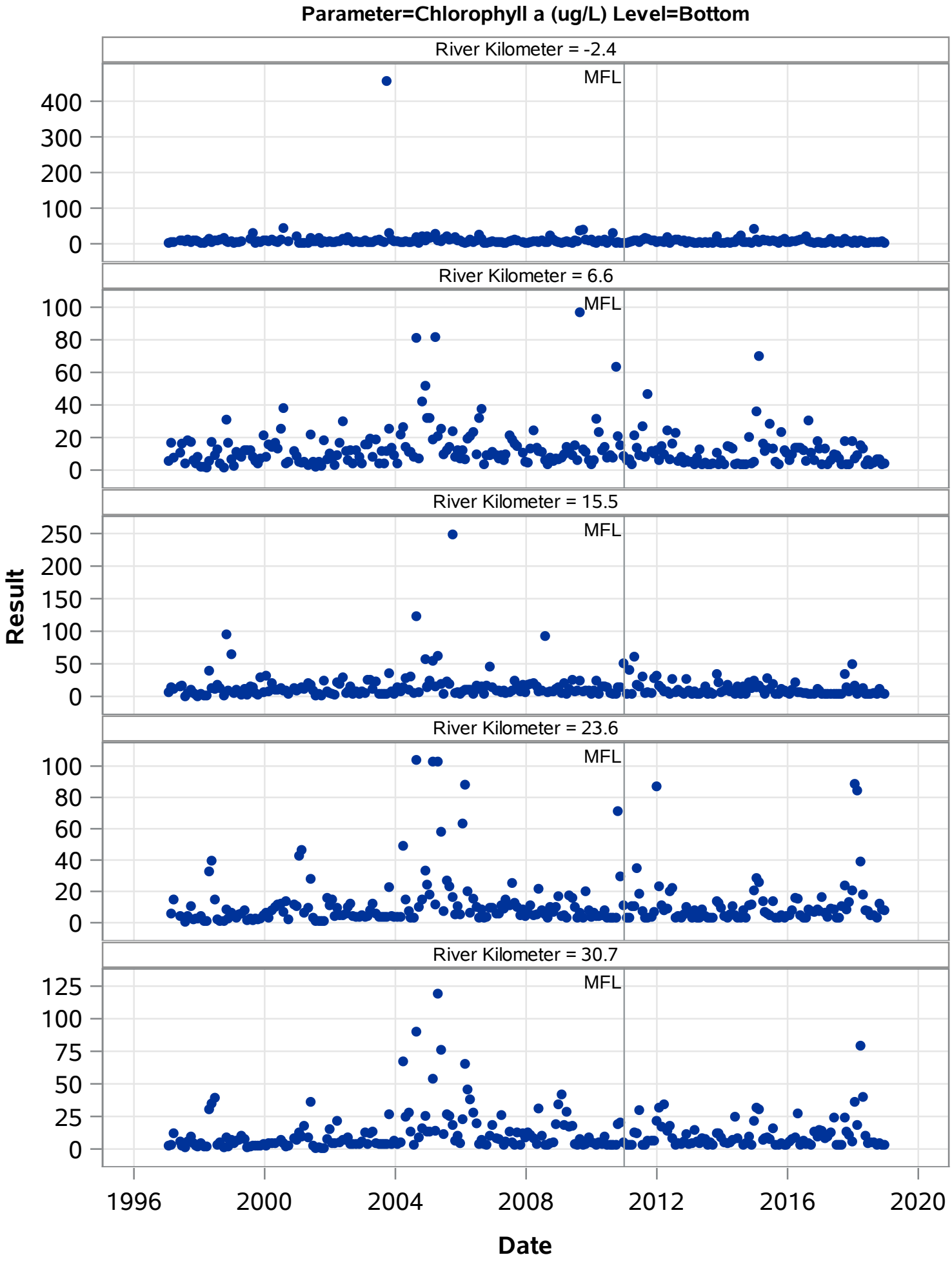
Obs	parameter	DATE	STATION	Result	DEPTH
79	SAL	07FEB2013	9	1942	0.5
80	COND	04APR2013	17	317063	1
81	TEMP	08MAY2013	18	.	1.5
82	TEMP	09JAN2014	7	1600	1
83	SAL	09JAN2014	8	1258	0
84	DO	10APR2014	1	58.07	2.5
85	DO	10APR2014	14	69.07	1
86	PH	12JUN2014	12	735	2
87	PH	09JUL2014	1	683	2.5
88	PH	09OCT2014	19	672	1.5
89	PH	05FEB2015	1	743	1
90	DO	05FEB2015	8	69.72	1
91	PH	05FEB2015	16	733	1.5
92	COND	05FEB2015	18	102555	1
93	DO	06AUG2015	9	30.3	0.5
94	DO	08OCT2015	7	348	0.5
95	DO	08DEC2016	2	63.21	3
96	COND	08DEC2016	10	190108	1
97	SAL	08DEC2016	12	9362	2.5
98	DO	09MAR2017	3	695	0
99	DO	11MAY2017	13	47.61	2
100	DO	08NOV2017	6	5083	0.5

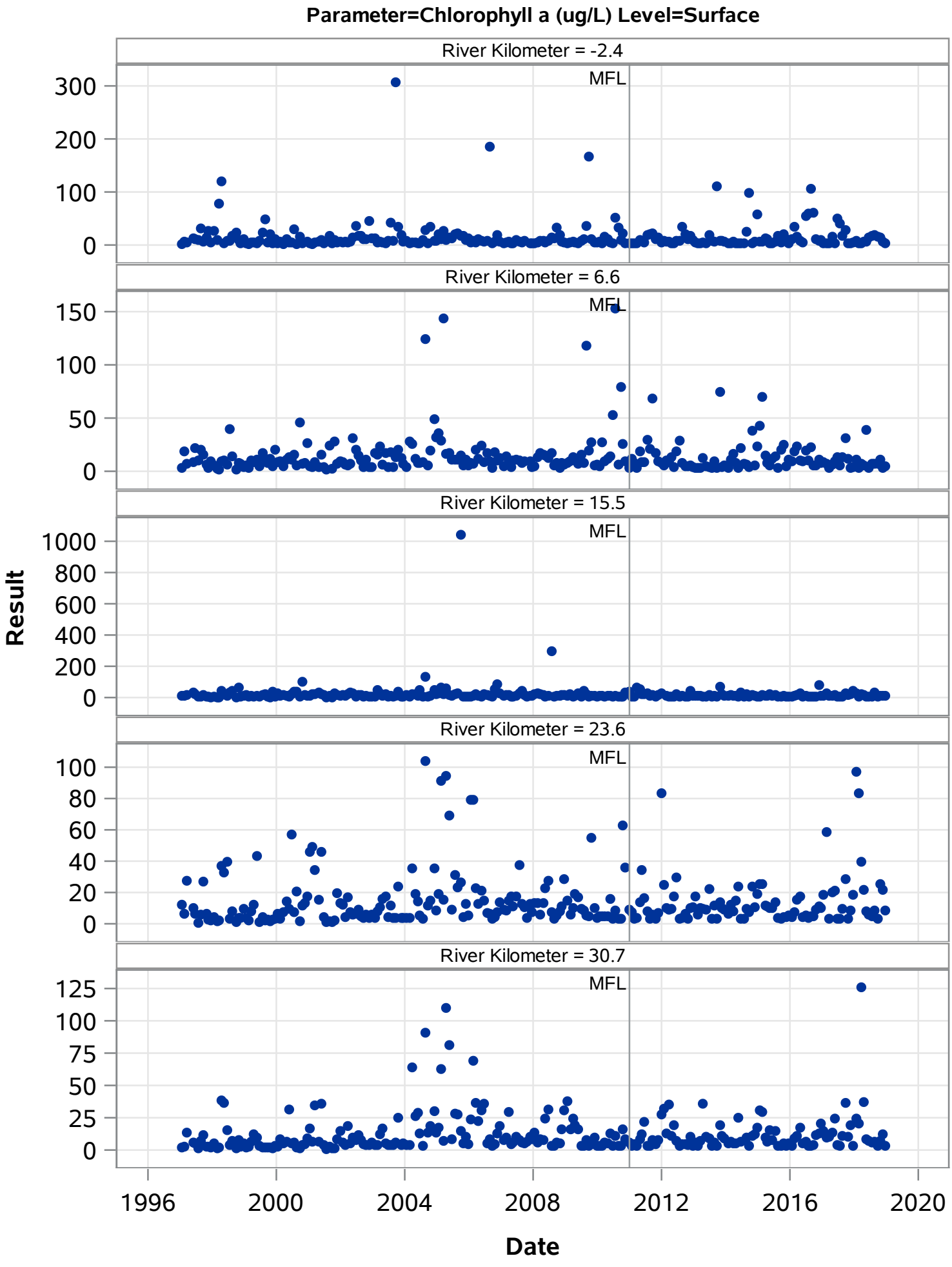
APPENDIX F

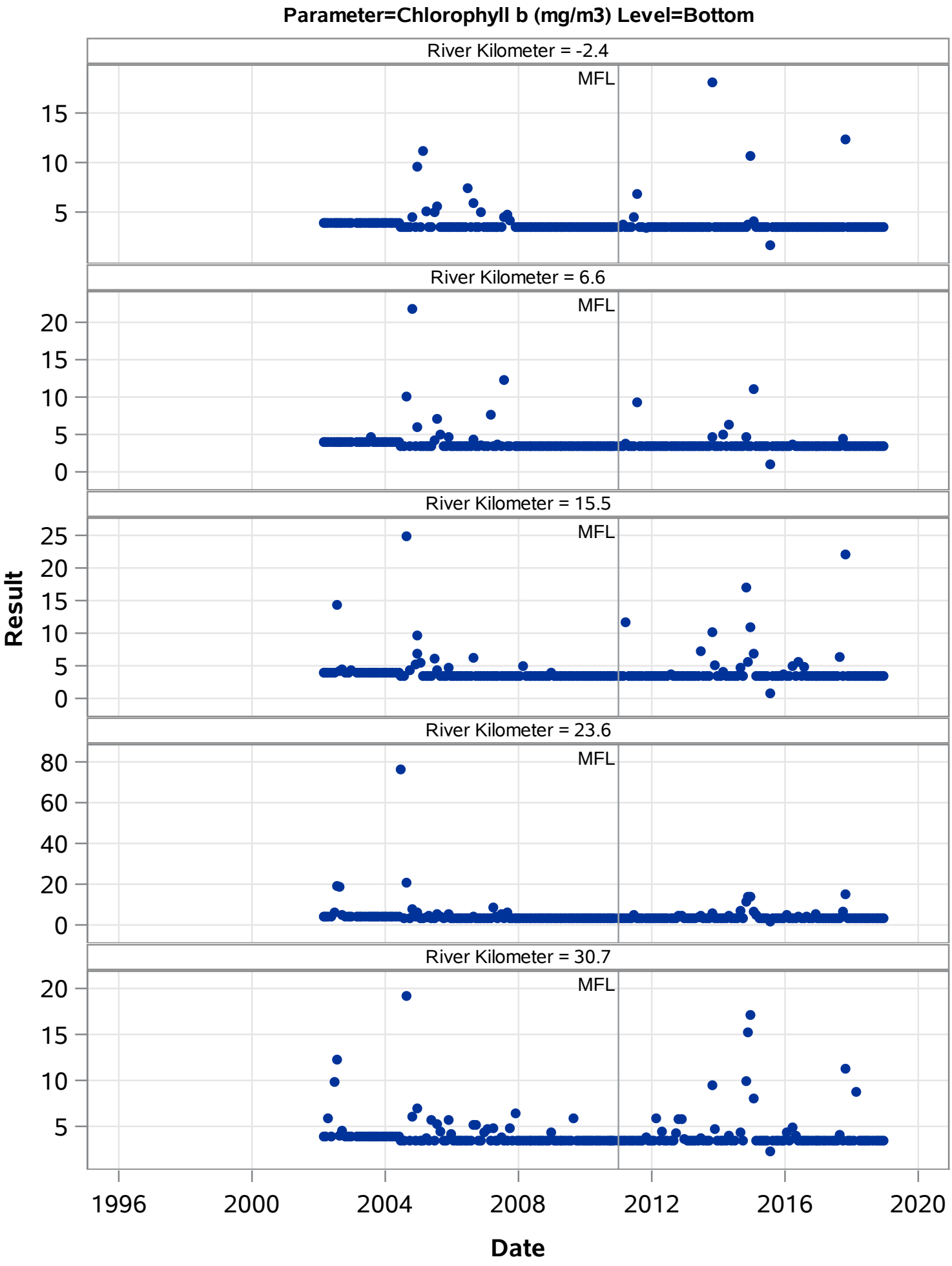
HBMP Fixed Station Time Series and Box and Whisker Plots

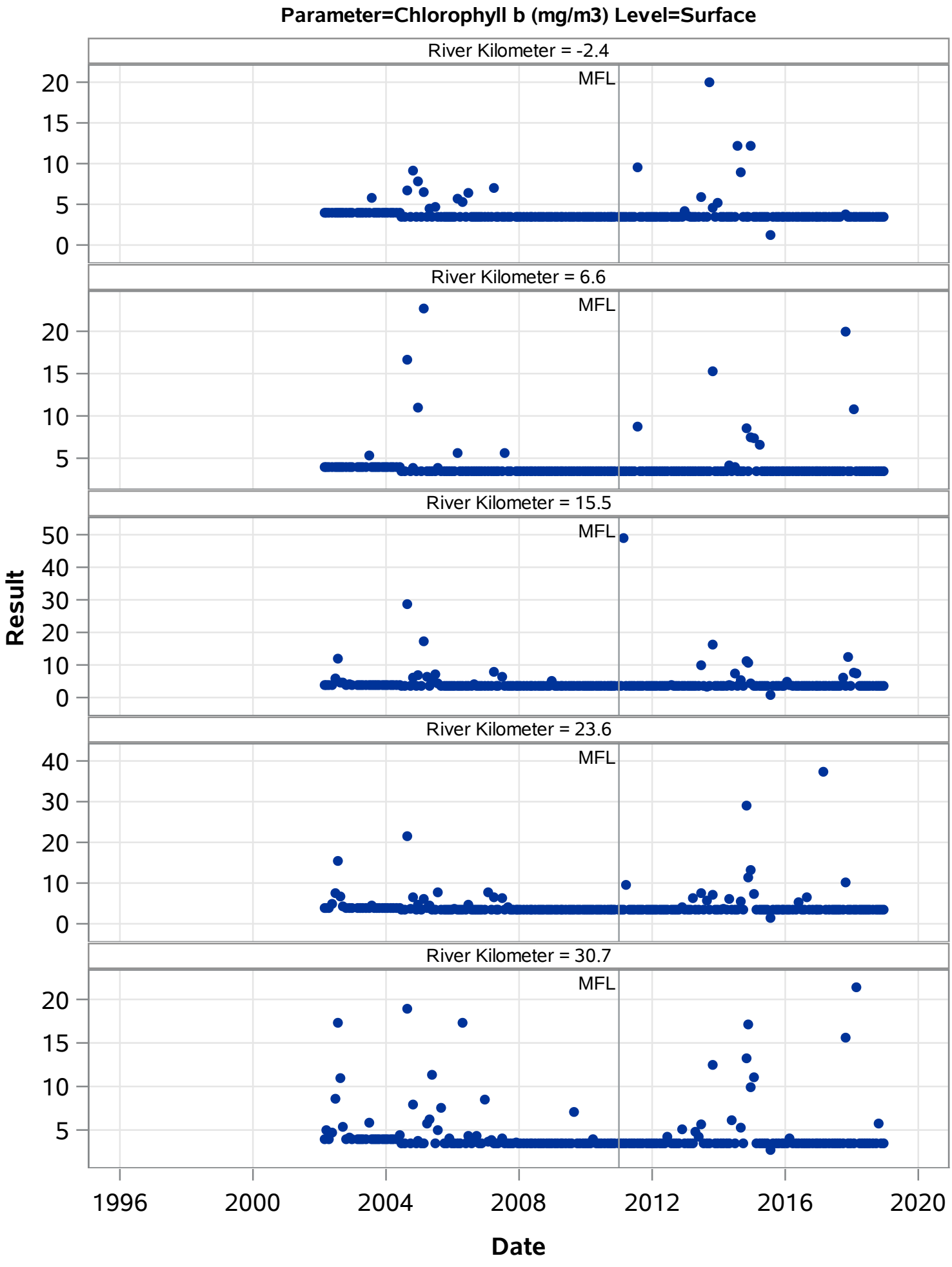

Parameter=Alkalinity (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

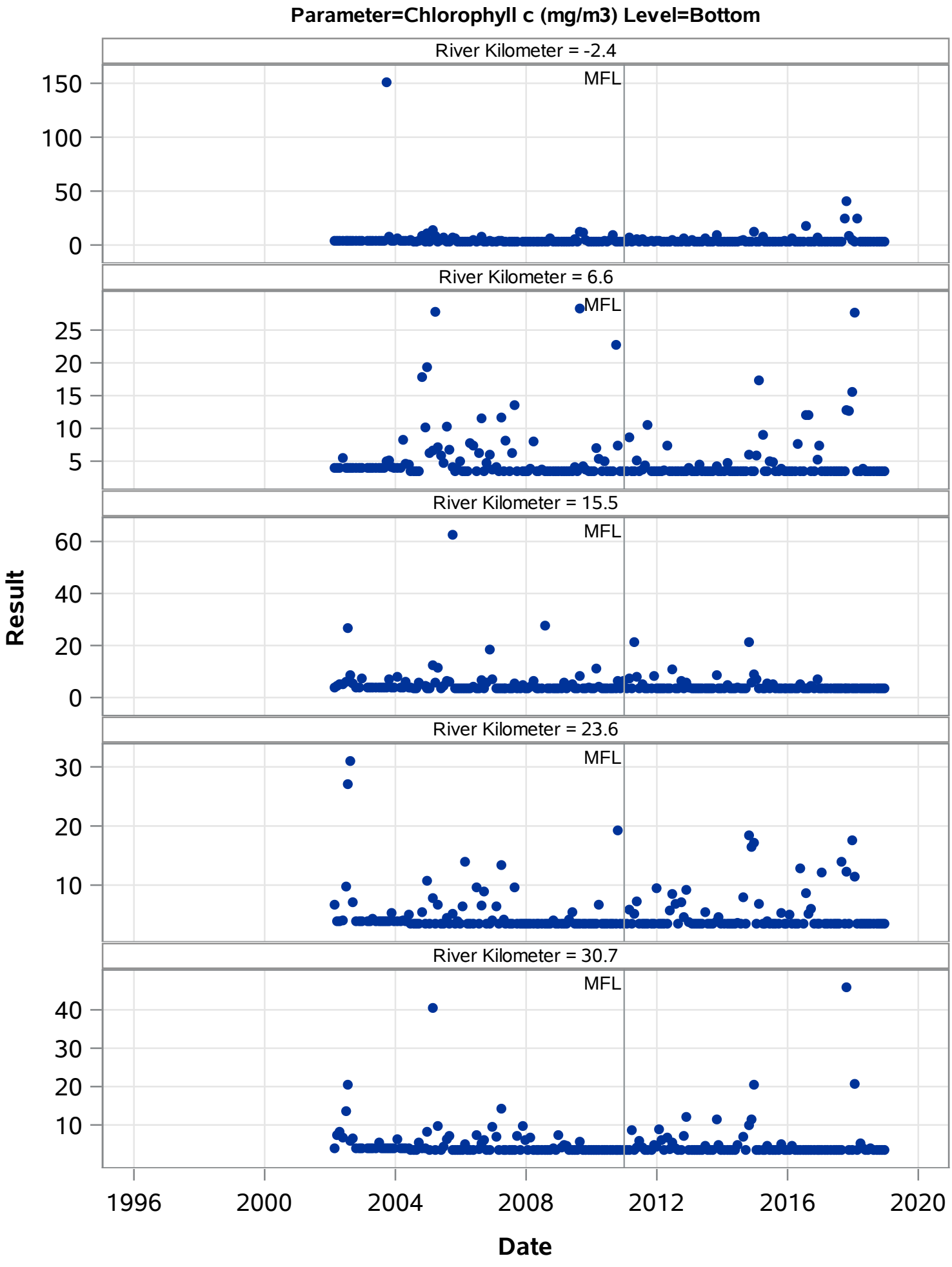

Parameter=Alkalinity (mg/L) Level=Surface
River Kilometer = -2.4
MFL
120
100
80
60
River Kilometer = 6.6
MFL
125
100
75
50
25
River Kilometer = 15.5
MFL
125
100
75
50
25
River Kilometer = 23.6
MFL
100
80
60
40
20
River Kilometer = 30.7
MFL
80
40
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

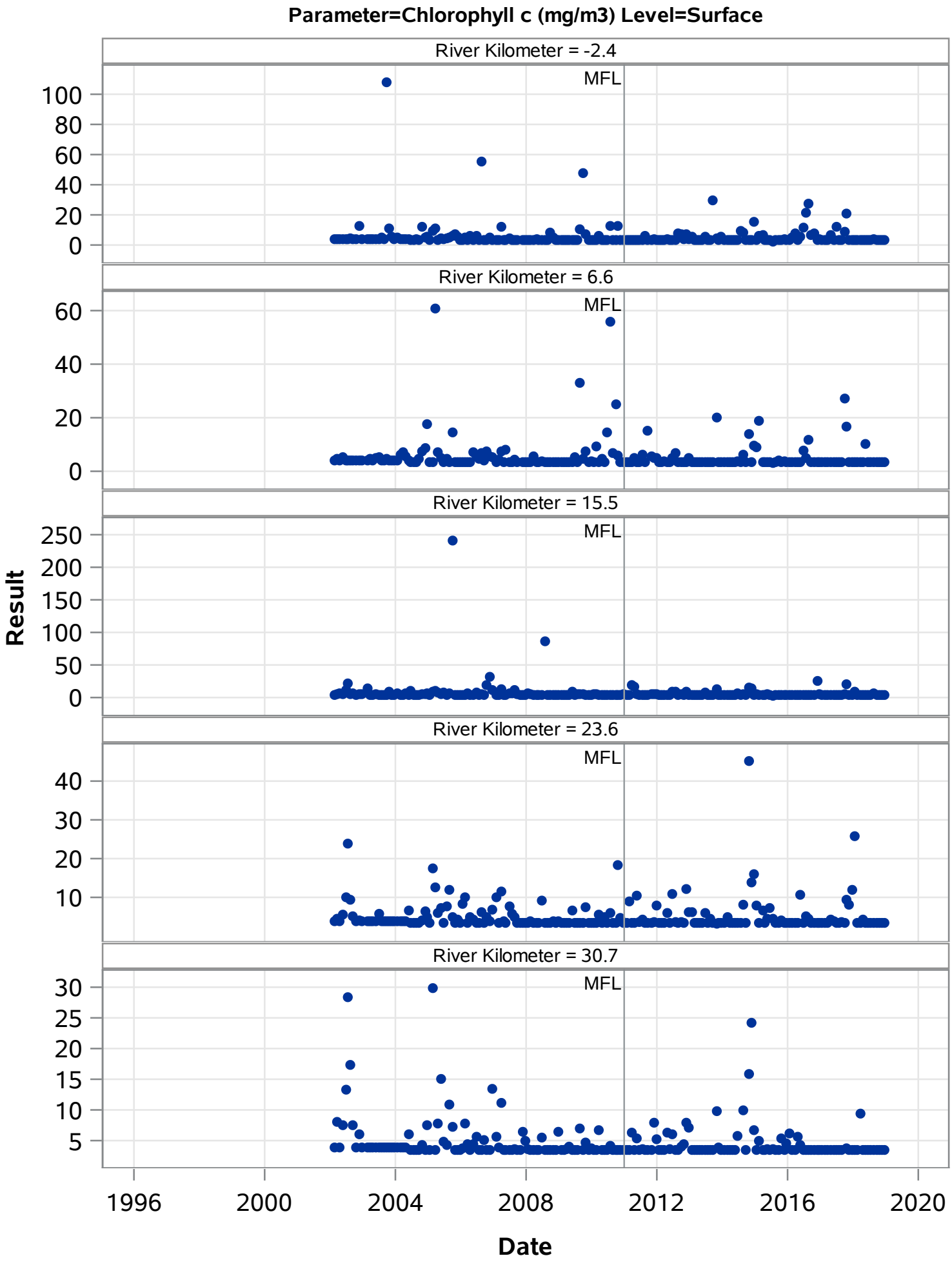

Parameter=Chlorophyll a (ug/L) Level=Bottom
River Kilometer = -2.4
MFL
400
300
200
100
0
River Kilometer = 6.6
MFL
100
80
60
40
20
0
River Kilometer = 15.5
MFL
250
200
150
100
50
0
River Kilometer = 23.6
MFL
100
80
60
40
20
0
River Kilometer = 30.7
MFL
125
100
75
50
25
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

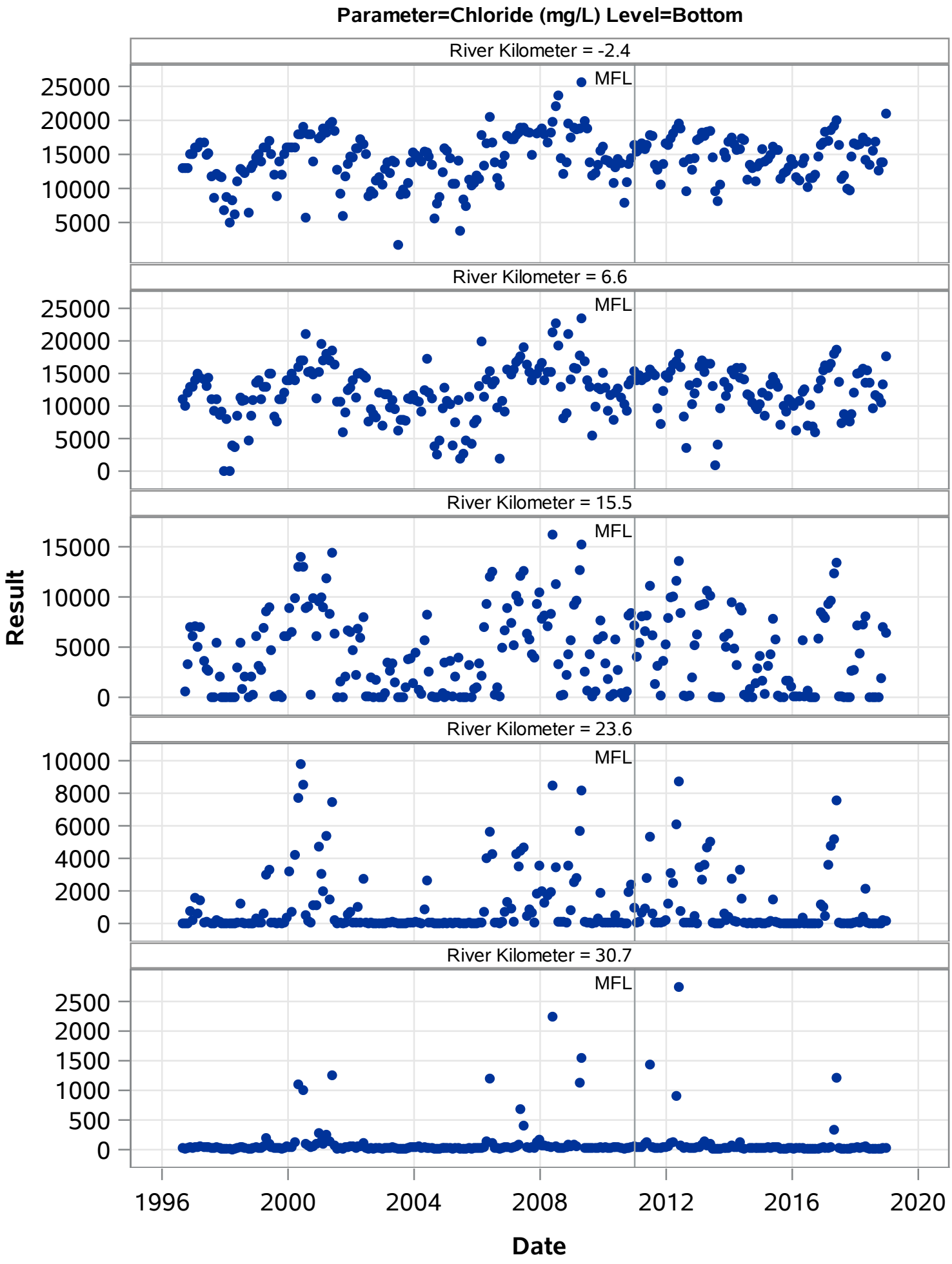

Parameter=Chlorophyll a (ug/L) Level=Surface
River Kilometer = -2.4
MFL
300
200
100
0
River Kilometer = 6.6
MFL
150
100
50
0
River Kilometer = 15.5
MFL
1000
800
600
400
200
0
River Kilometer = 23.6
MFL
100
80
60
40
20
0
River Kilometer = 30.7
MFL
125
100
75
50
25
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

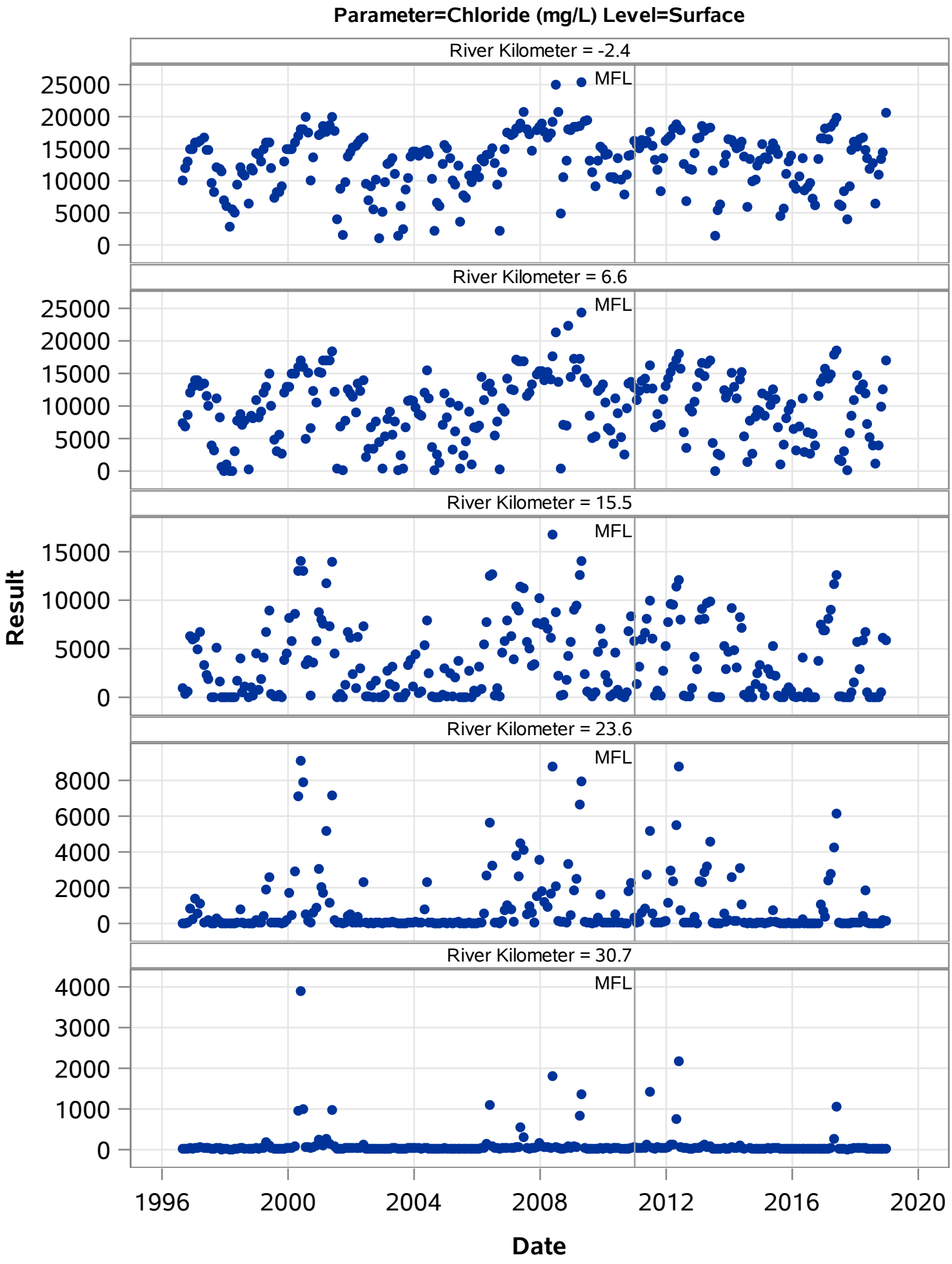

Parameter=Chlorophyll b (mg/m3) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

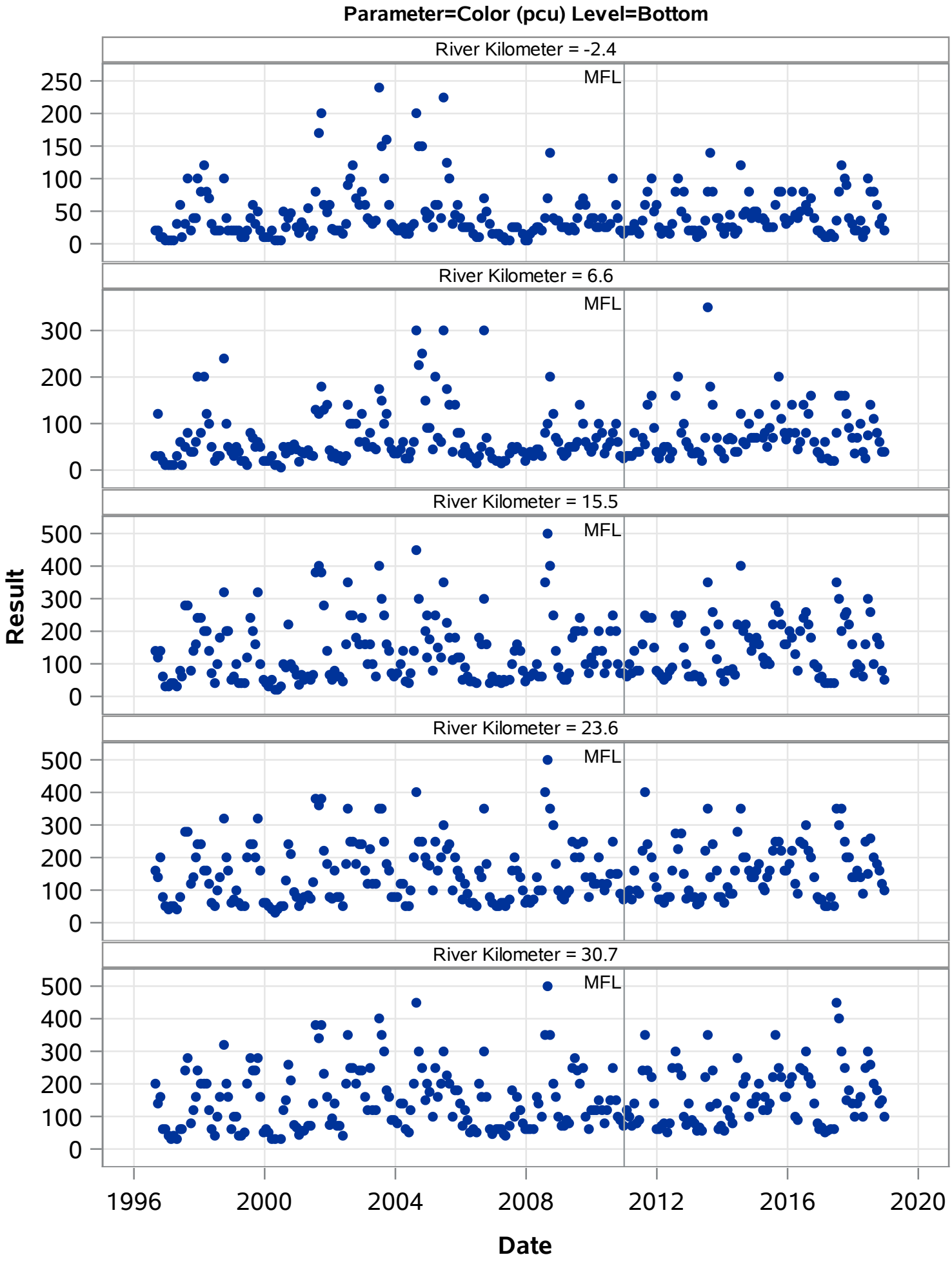

Parameter=Chlorophyll b (mg/m3) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

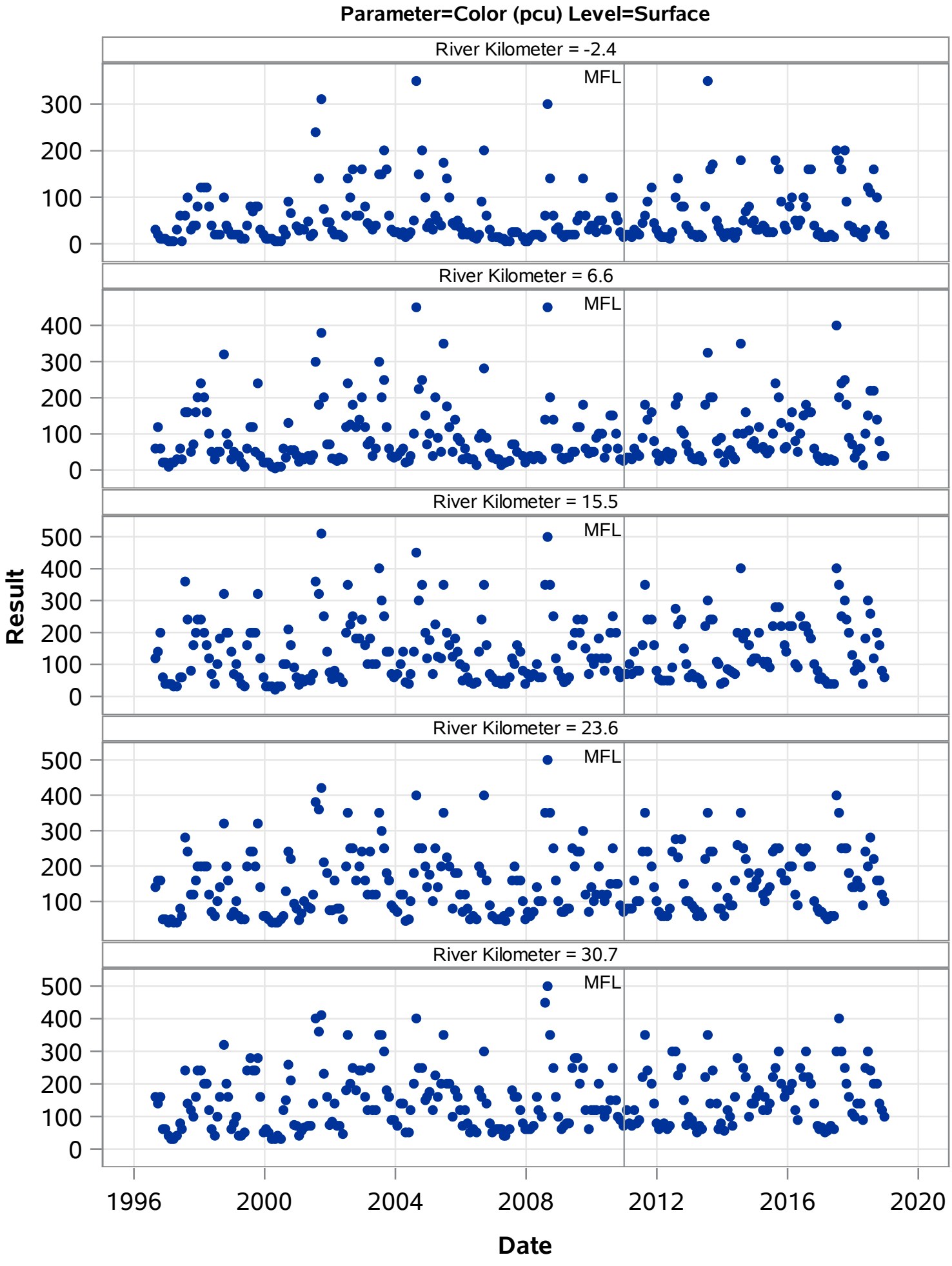

Parameter=Chlorophyll c (mg/m3) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

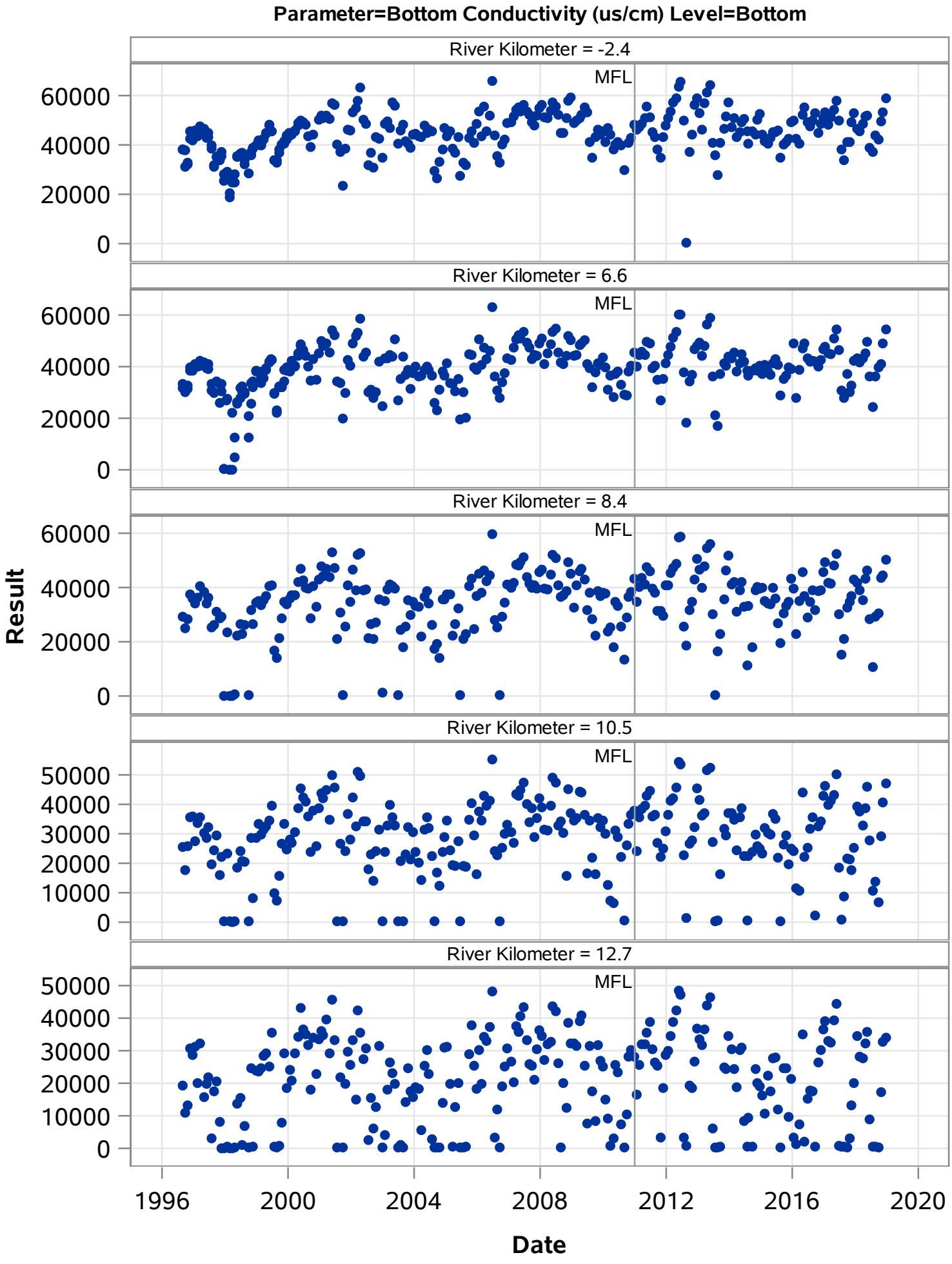

Parameter=Chlorophyll c (mg/m3) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

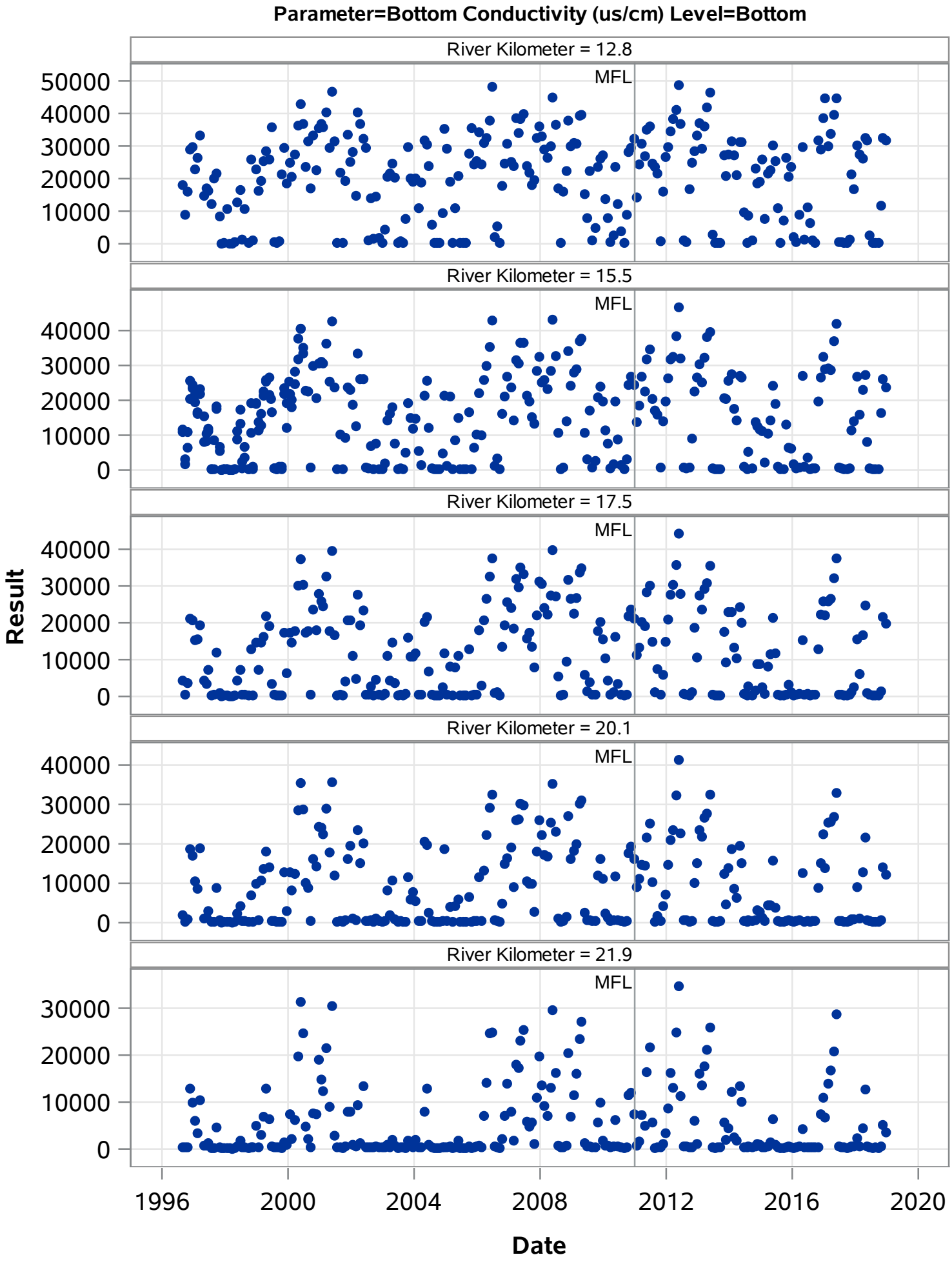

Parameter=Chloride (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

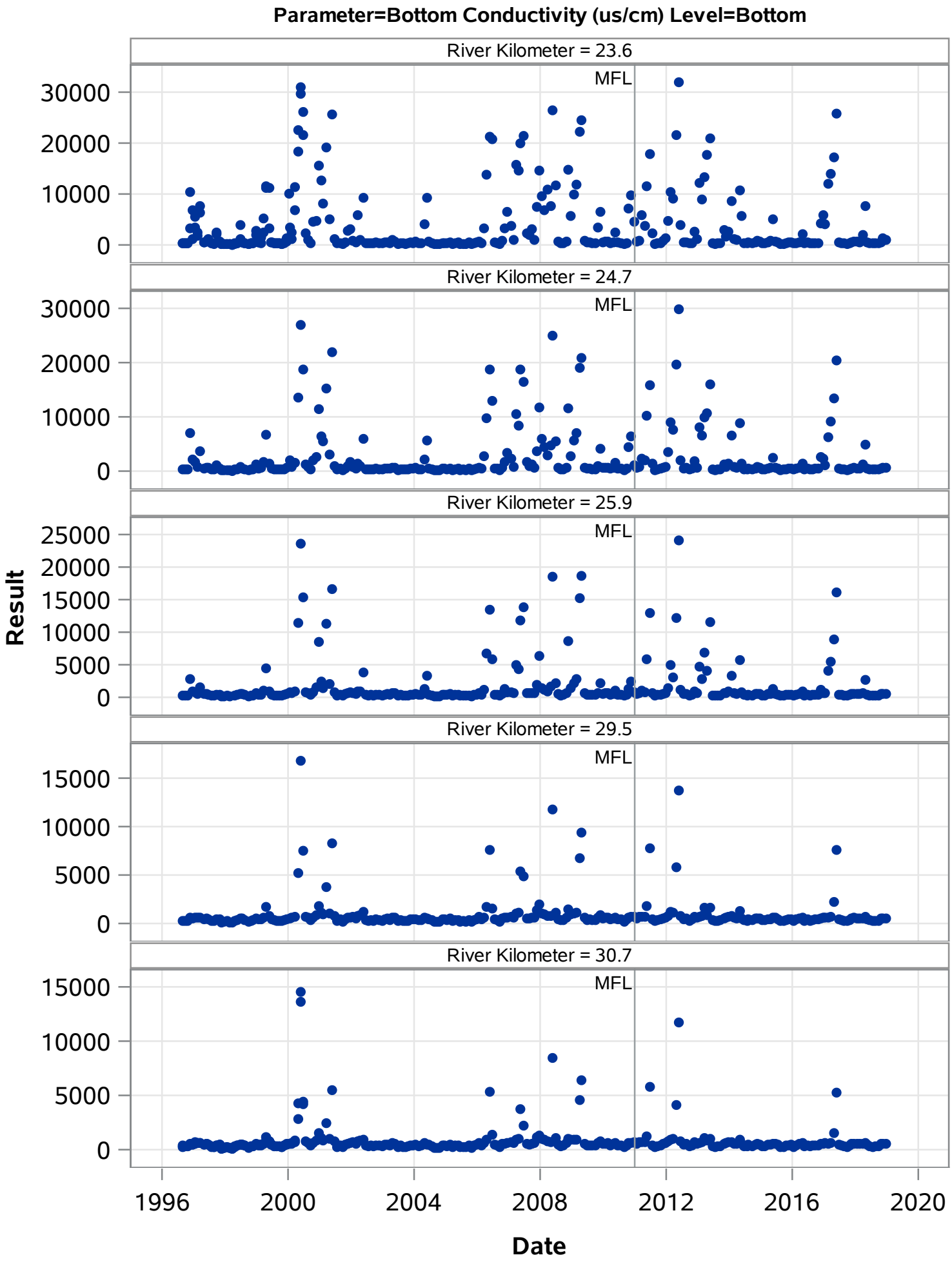

Parameter=Chloride (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

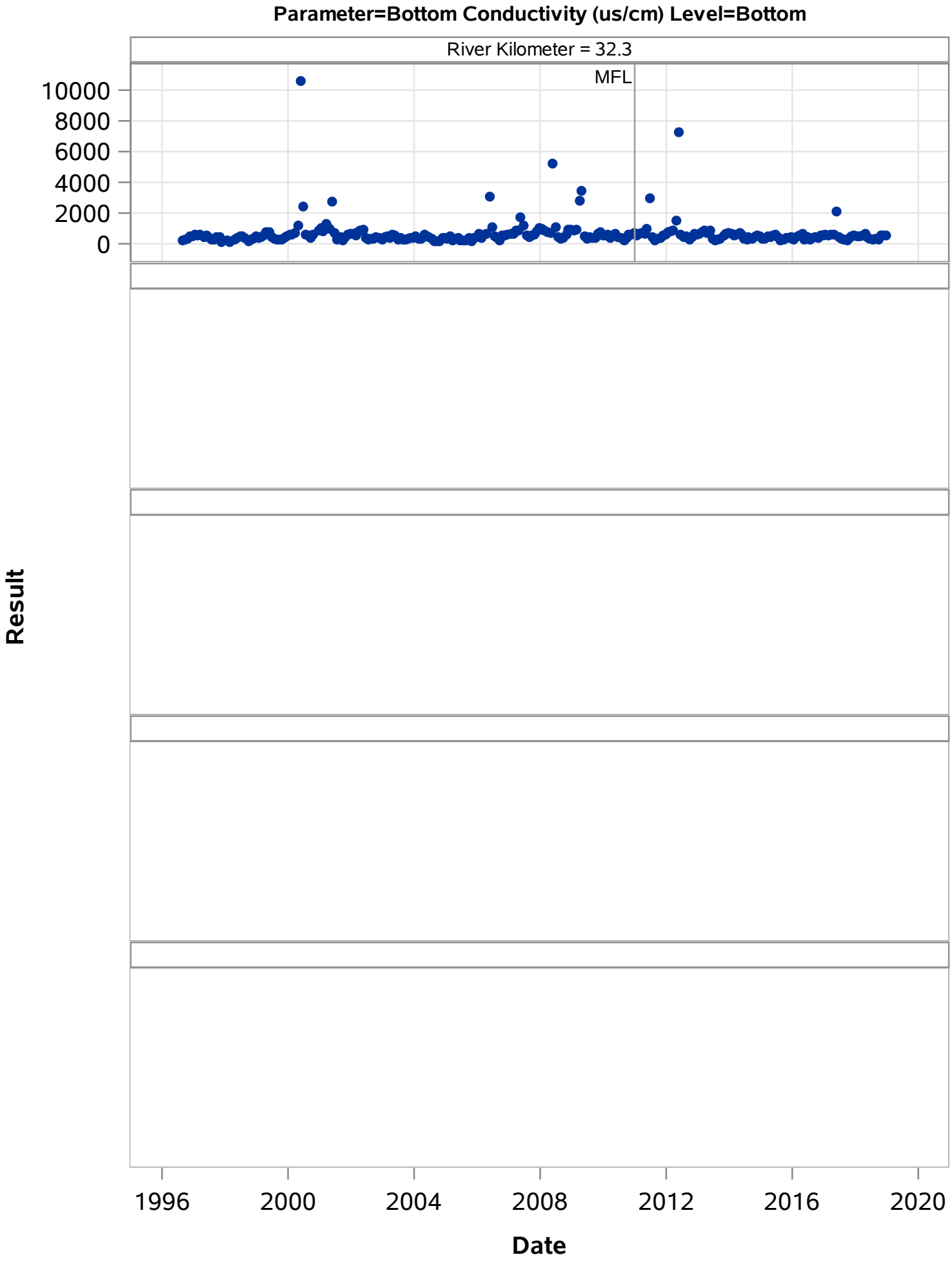

Parameter=Color (pcu) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

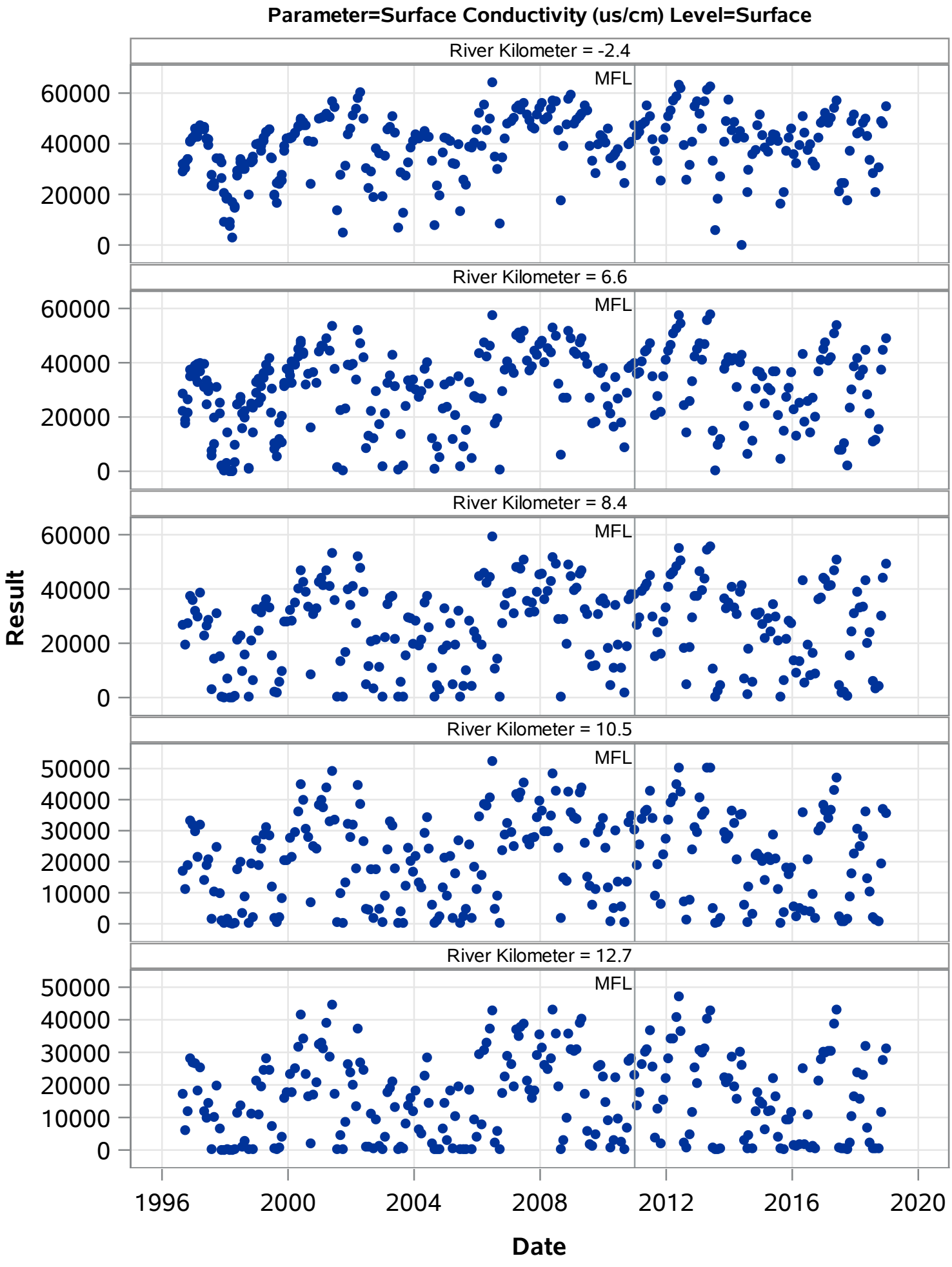

Parameter=Color (pcu) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

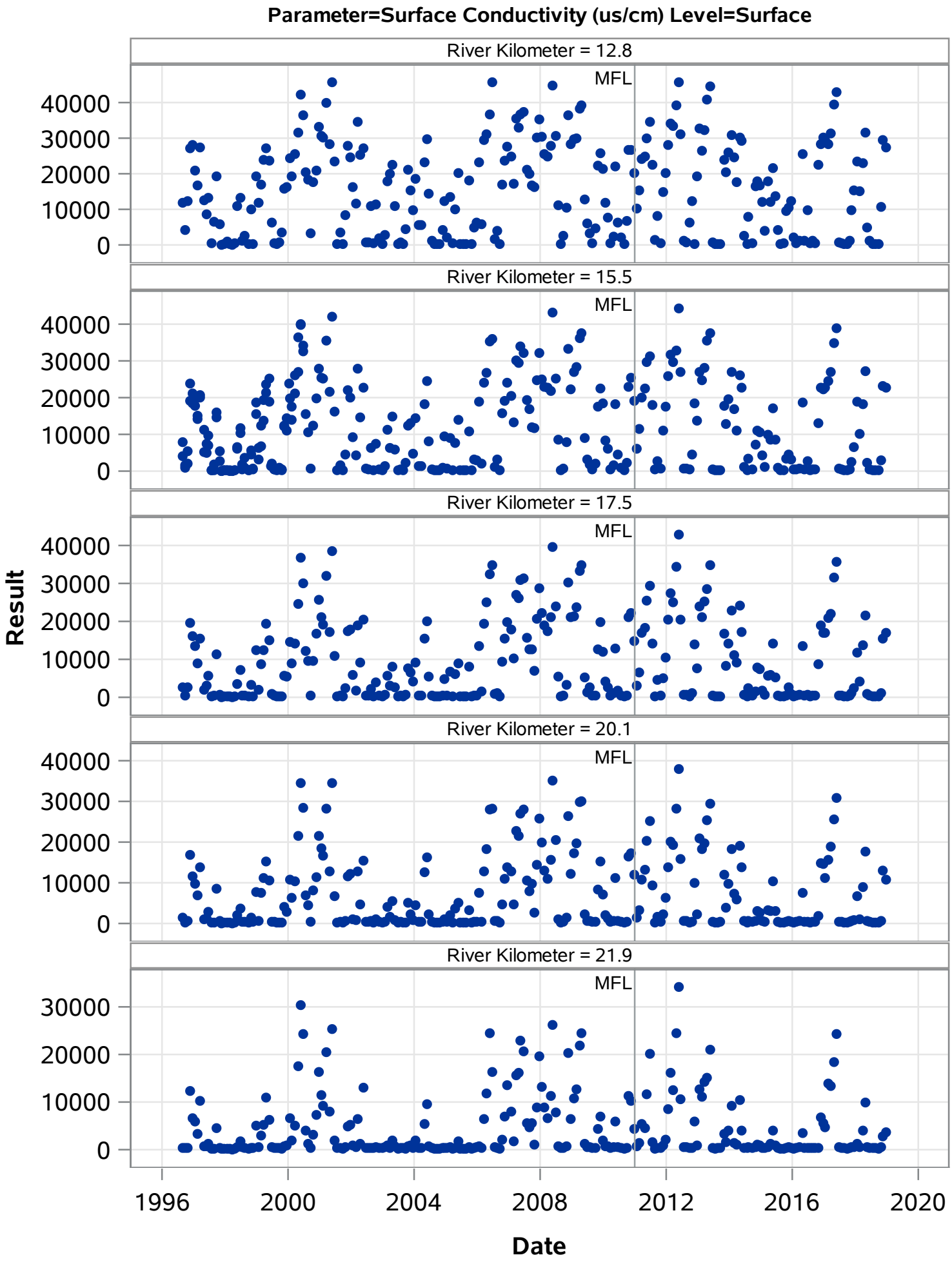

Parameter=Bottom Conductivity (us/cm) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

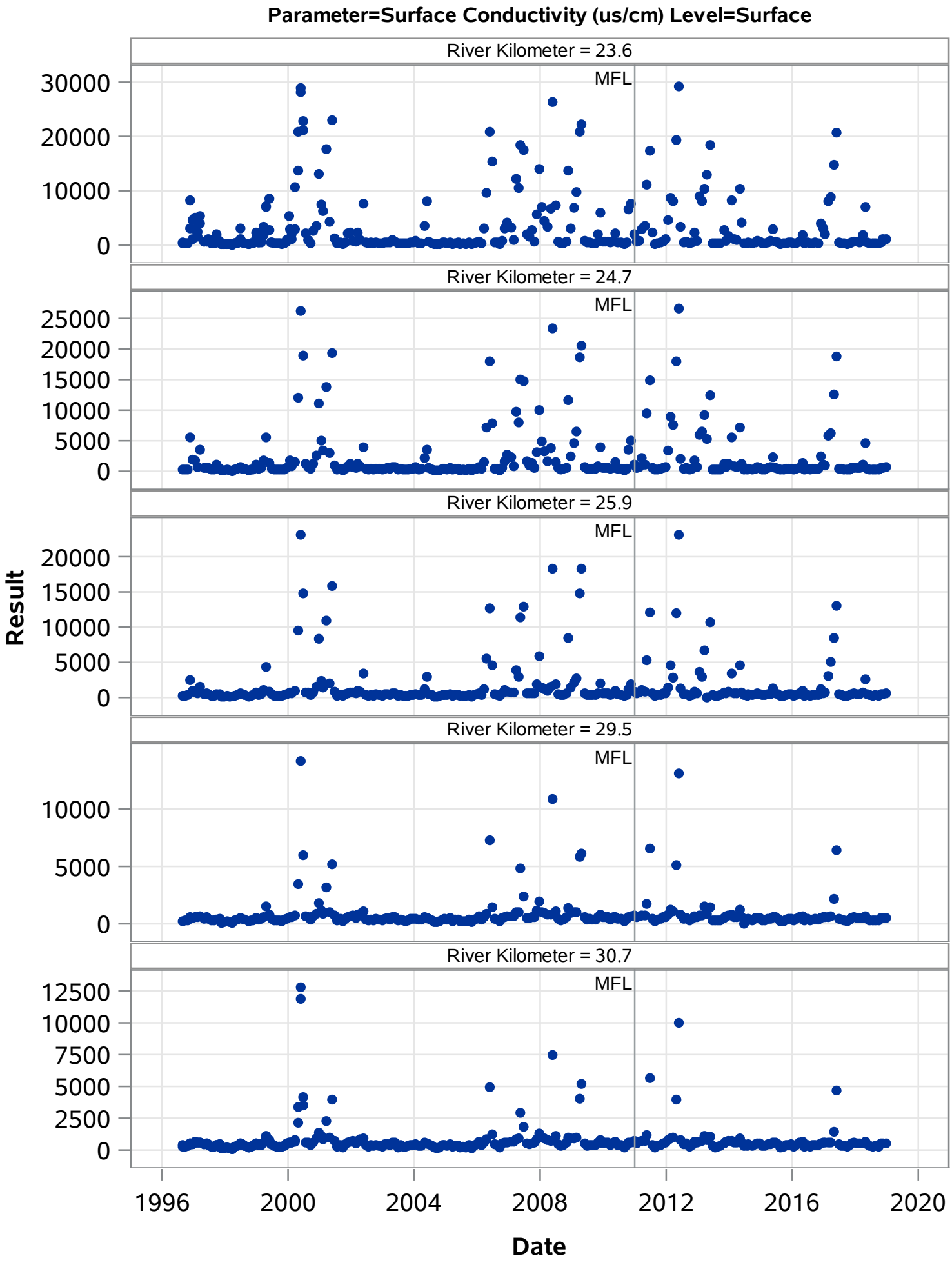

Parameter=Bottom Conductivity (us/cm) Level=Bottom
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

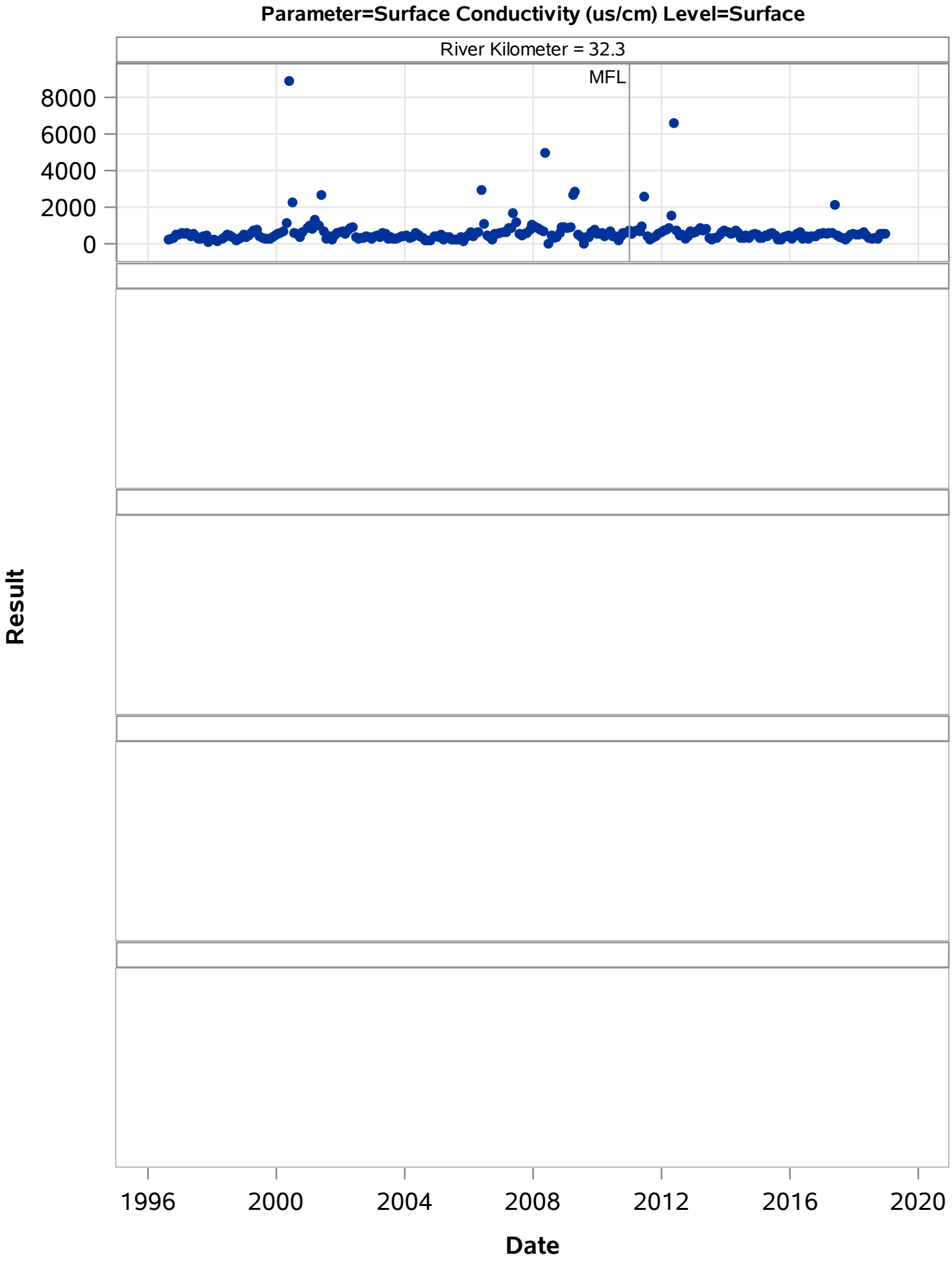

Parameter=Bottom Conductivity (us/cm) Level=Bottom
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

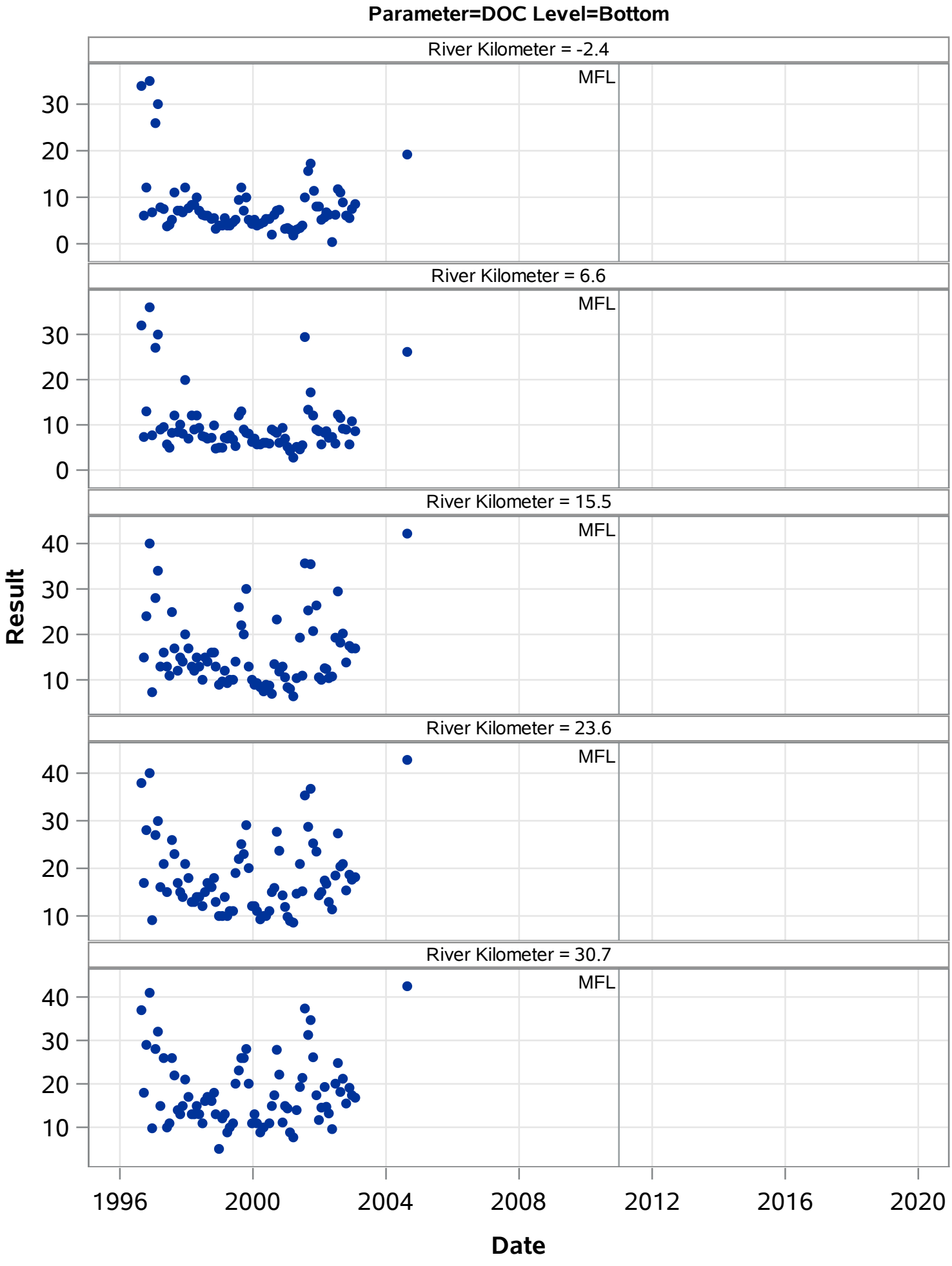

Parameter=Bottom Conductivity (us/cm) Level=Bottom
River Kilometer = 32.3
MFL
10000
8000
6000
4000
2000
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

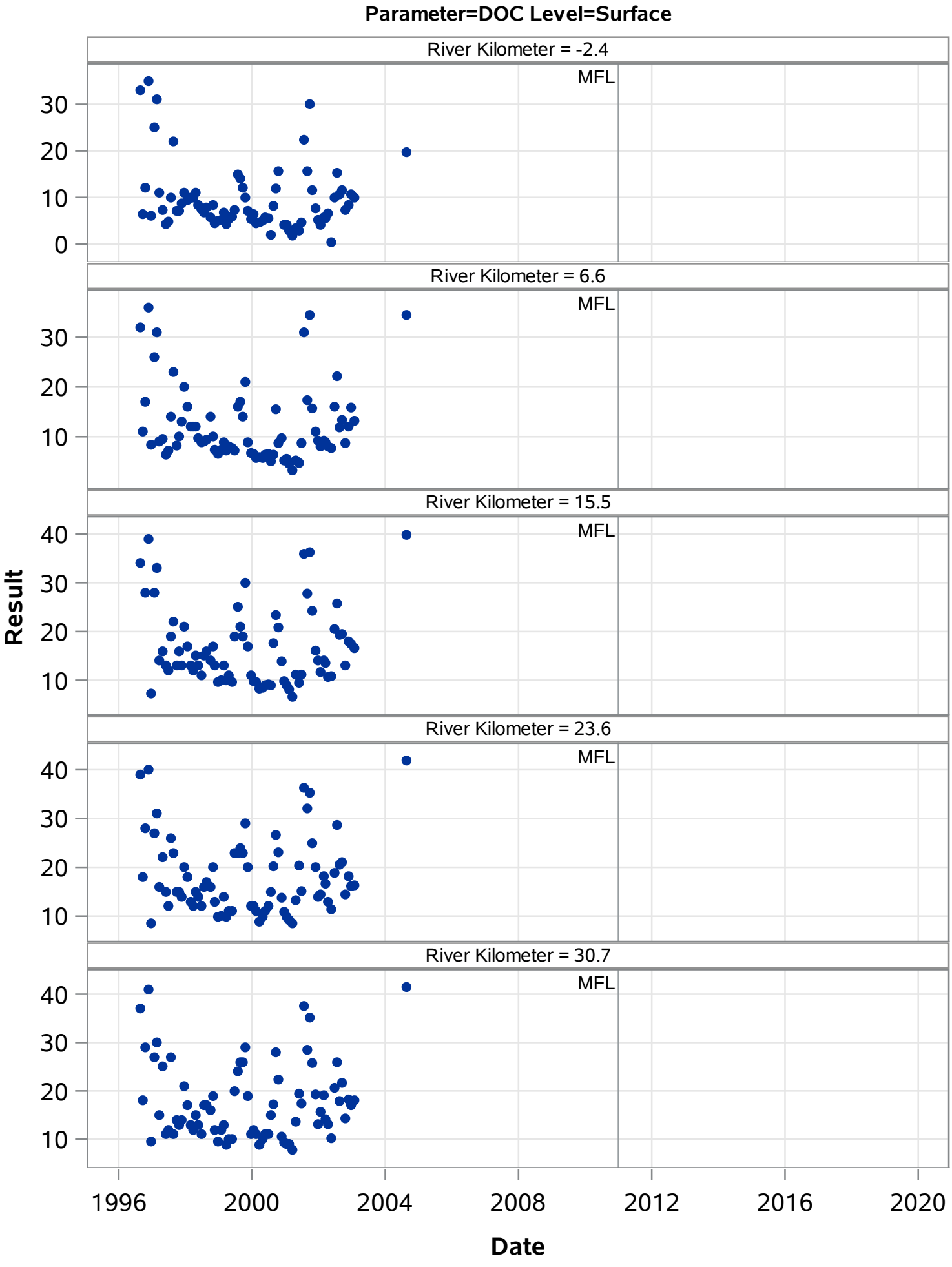

Parameter=Surface Conductivity (us/cm) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
0
10000
20000
30000
40000
50000
60000
1996
2000
2004
2008
2012
2016
2020

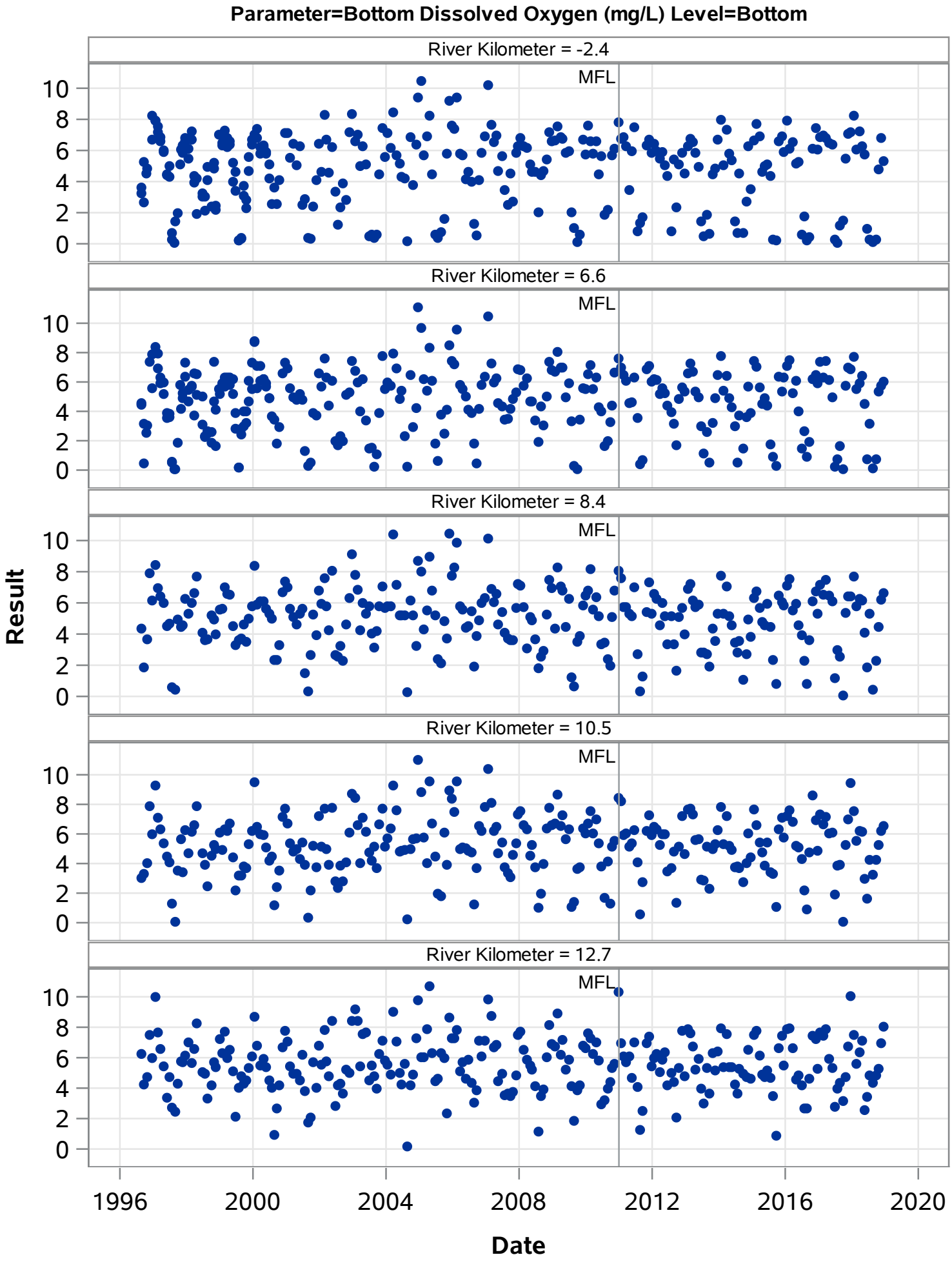

Parameter=Surface Conductivity (us/cm) Level=Surface
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
0
10000
20000
30000
40000
1996
2000
2004
2008
2012
2016
2020

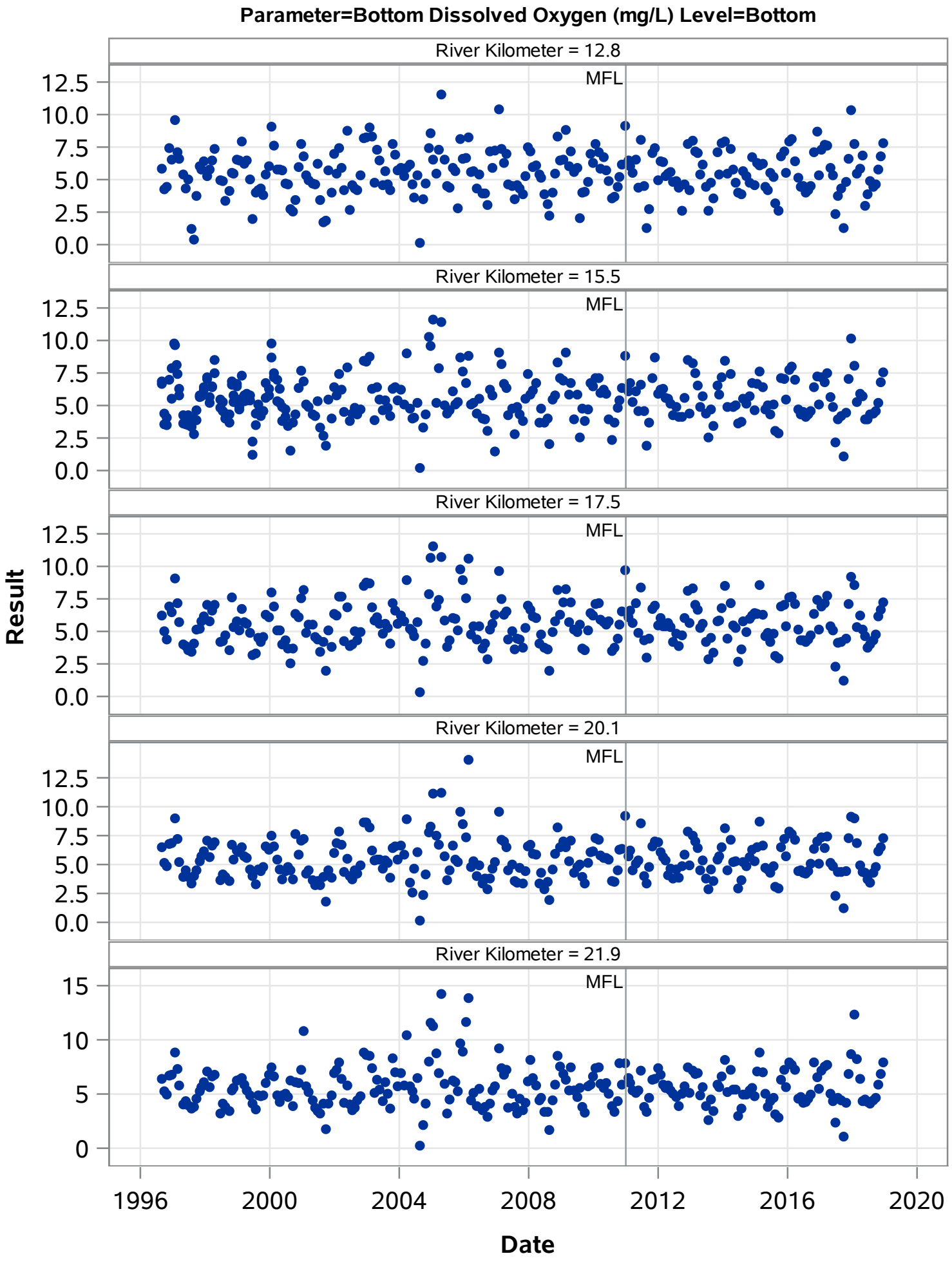

Parameter=Surface Conductivity (us/cm) Level=Surface
River Kilometer = 23.6
MFL
30000
20000
10000
0
River Kilometer = 24.7
MFL
25000
20000
15000
10000
5000
0
River Kilometer = 25.9
MFL
20000
15000
10000
5000
0
River Kilometer = 29.5
MFL
10000
5000
0
River Kilometer = 30.7
MFL
12500
10000
7500
5000
2500
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

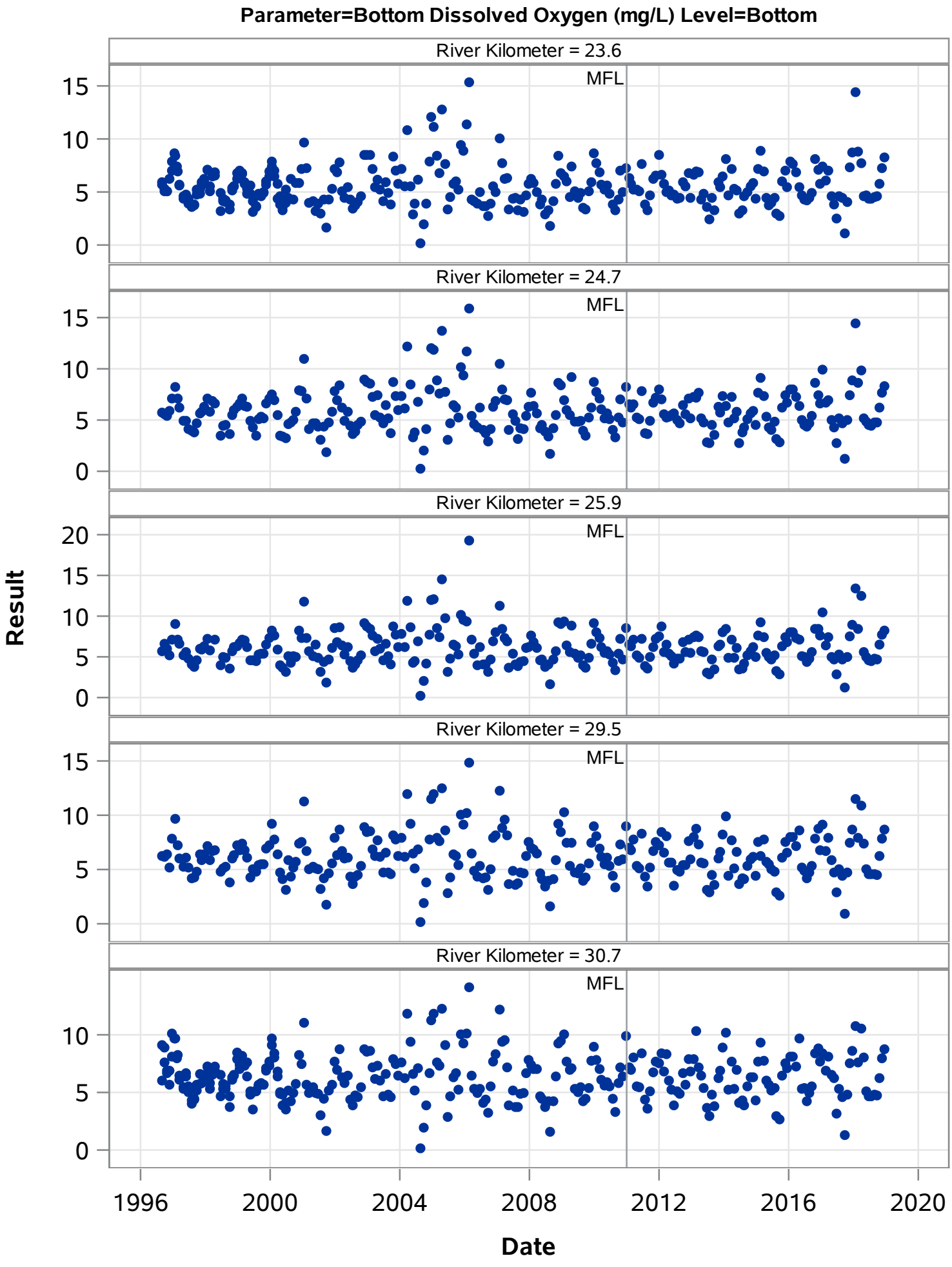

Parameter=Surface Conductivity (us/cm) Level=Surface
River Kilometer = 32.3
MFL
8000
6000
4000
2000
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

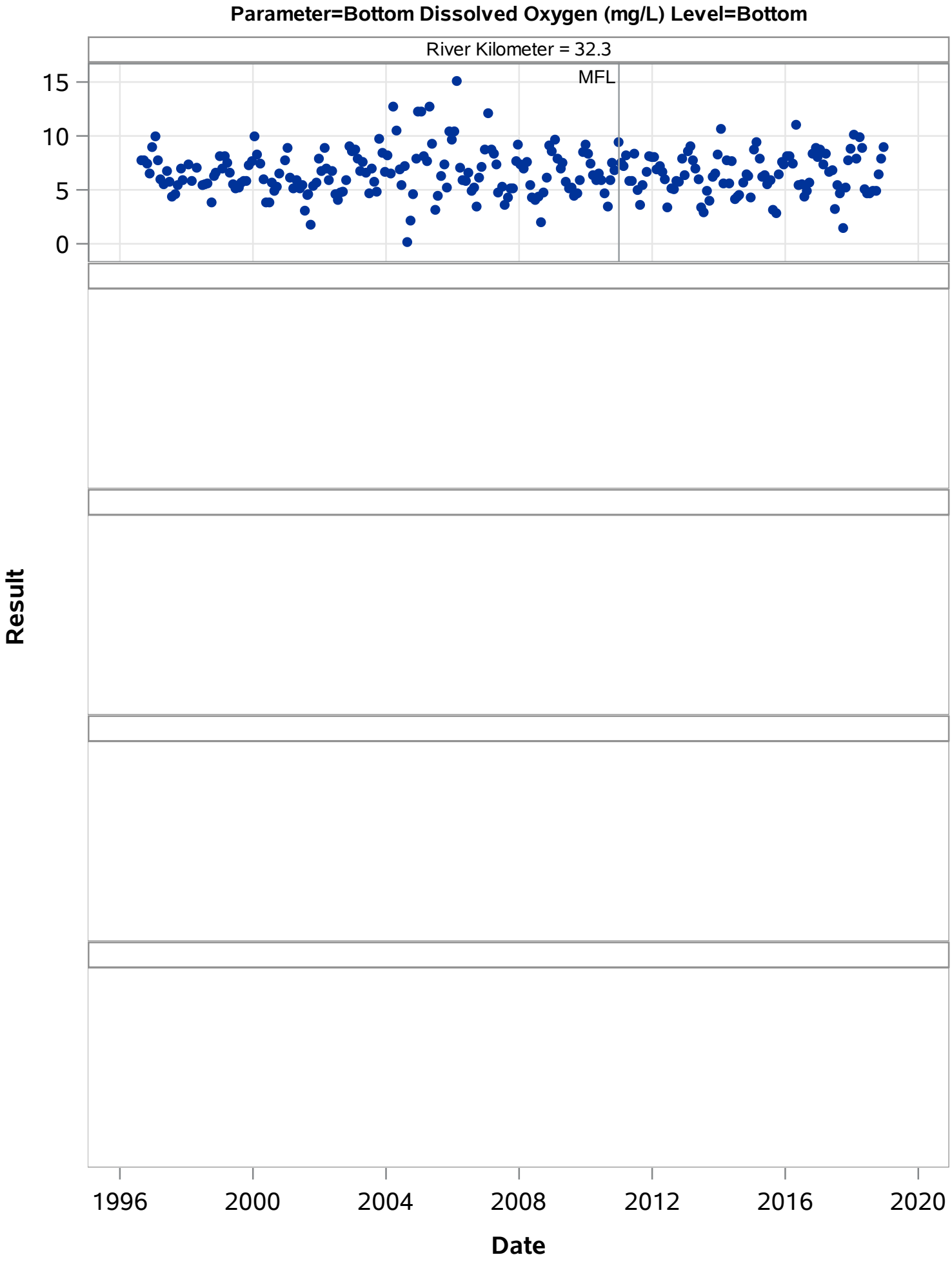

Parameter=DOC Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

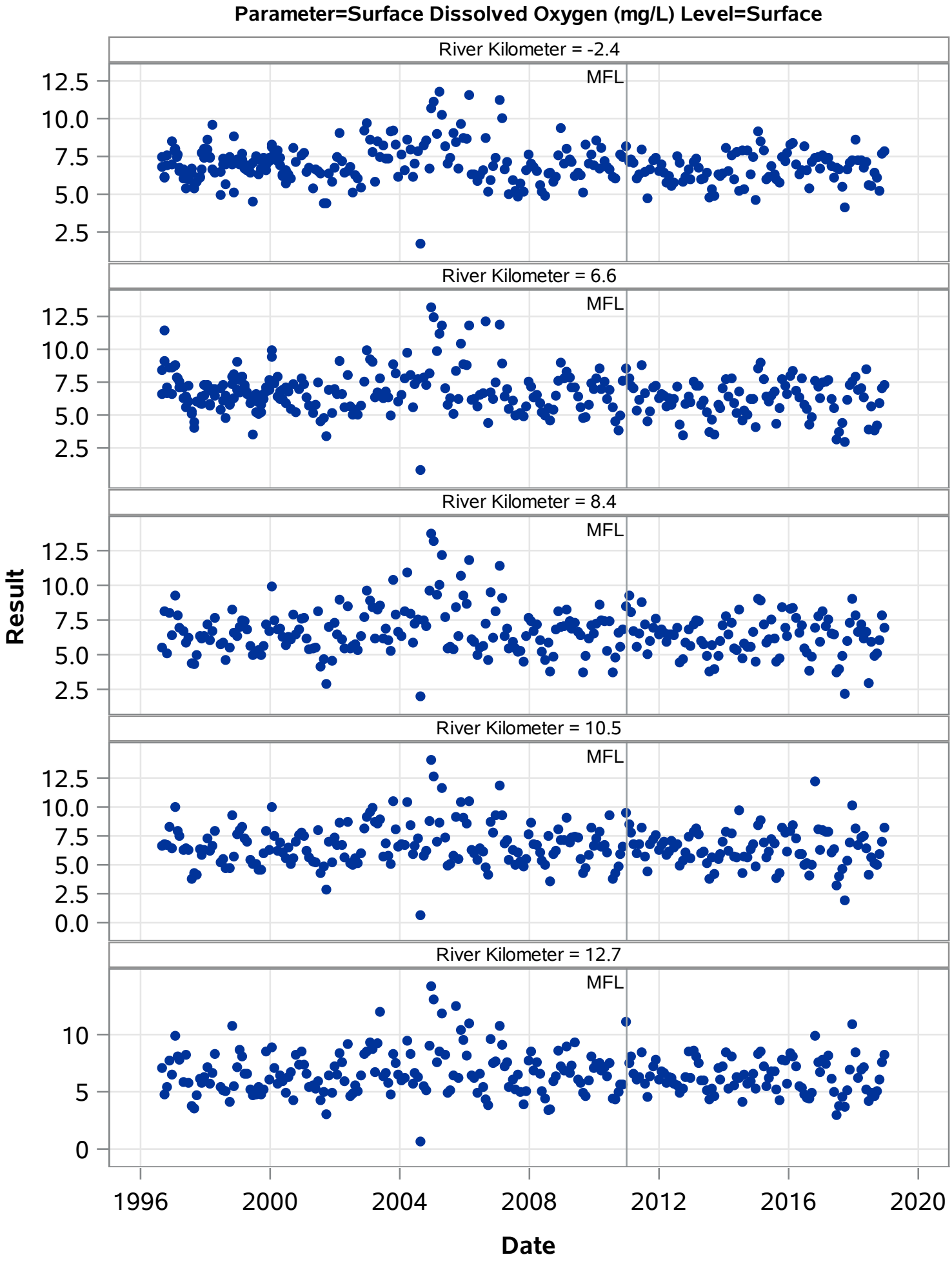

Parameter=DOC Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

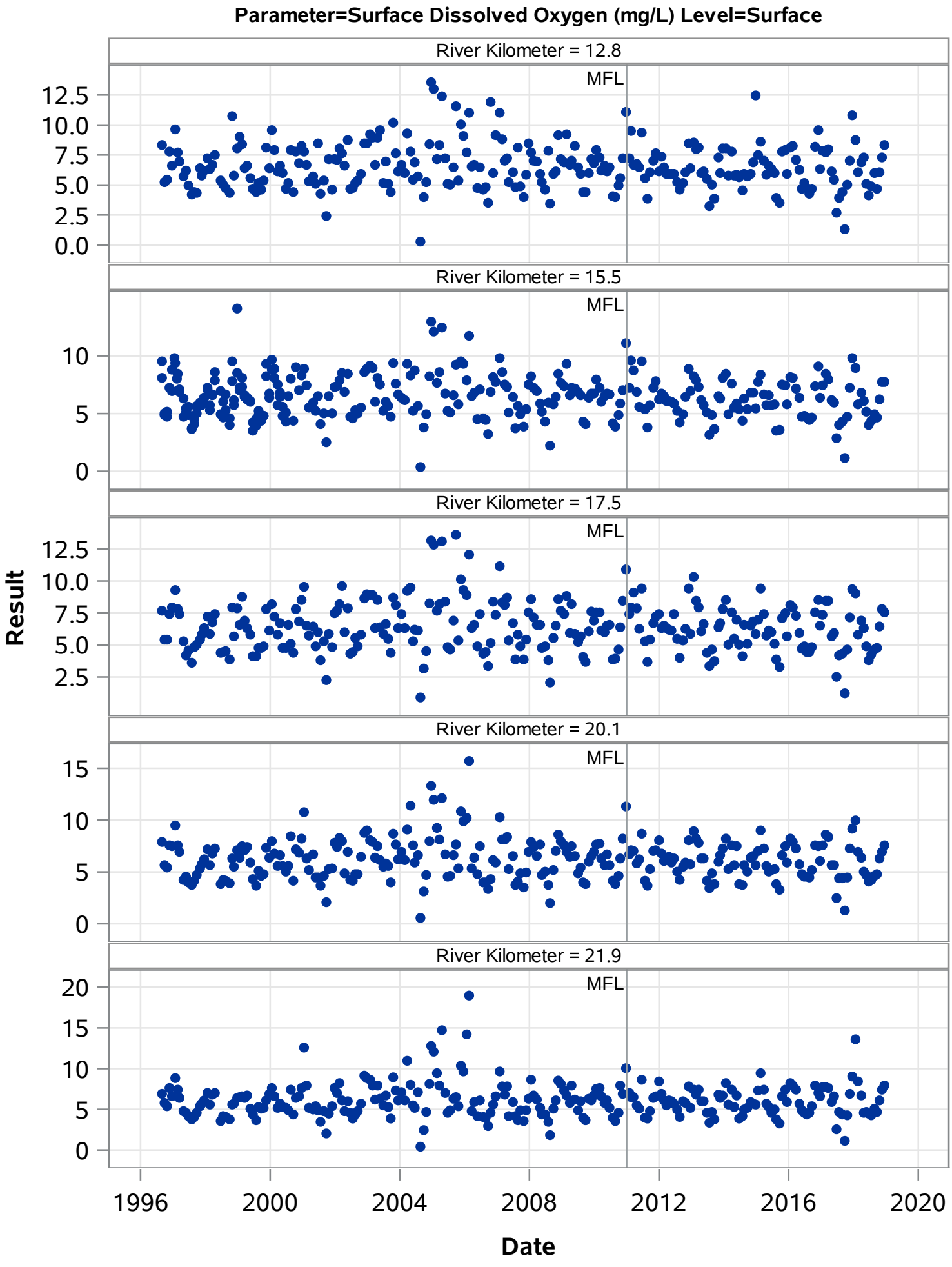

Parameter=Bottom Dissolved Oxygen (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
0
2
4
6
8
10
1996
2000
2004
2008
2012
2016
2020
Date

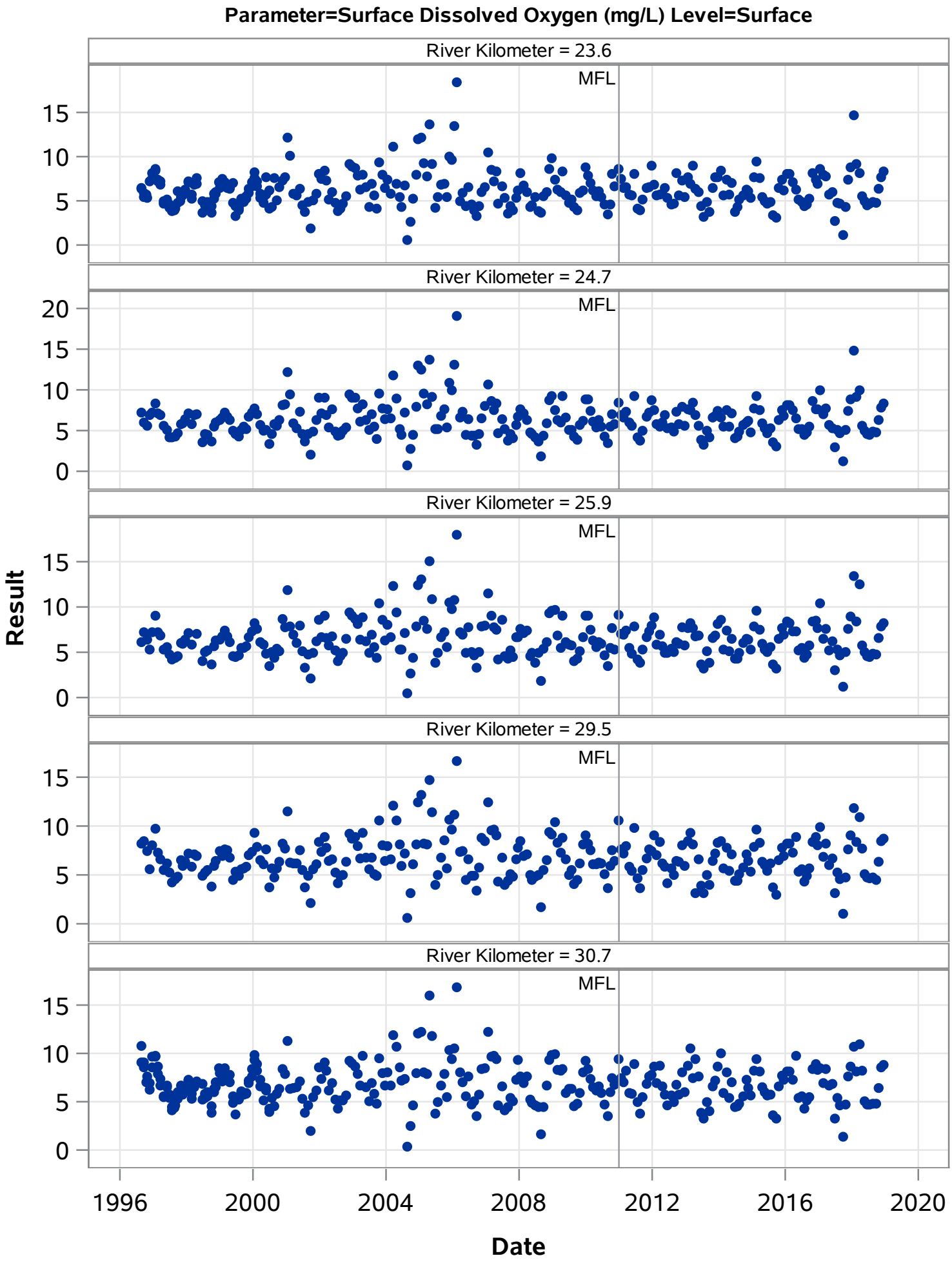

Parameter=Bottom Dissolved Oxygen (mg/L) Level=Bottom
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

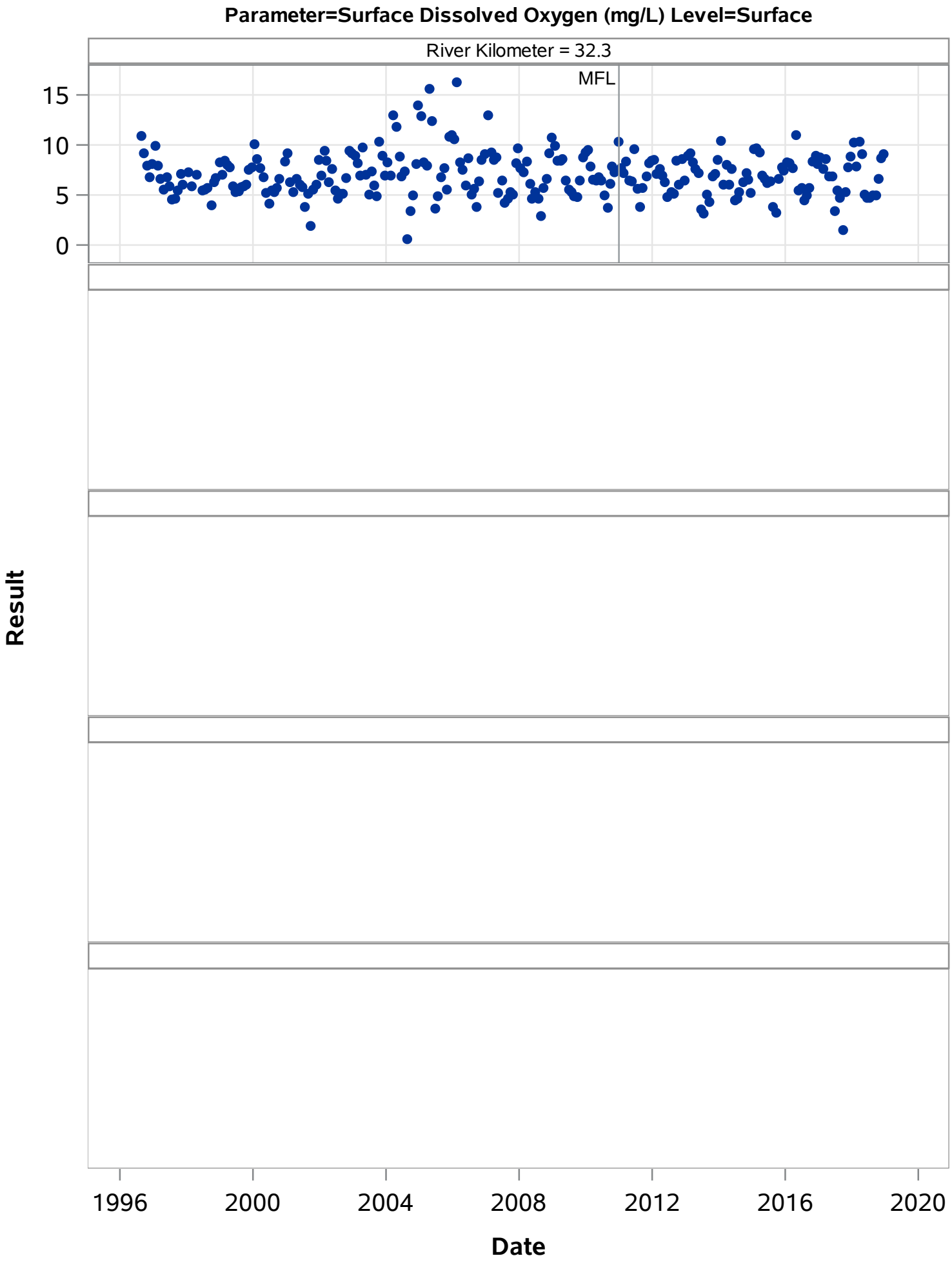

Parameter=Bottom Dissolved Oxygen (mg/L) Level=Bottom
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

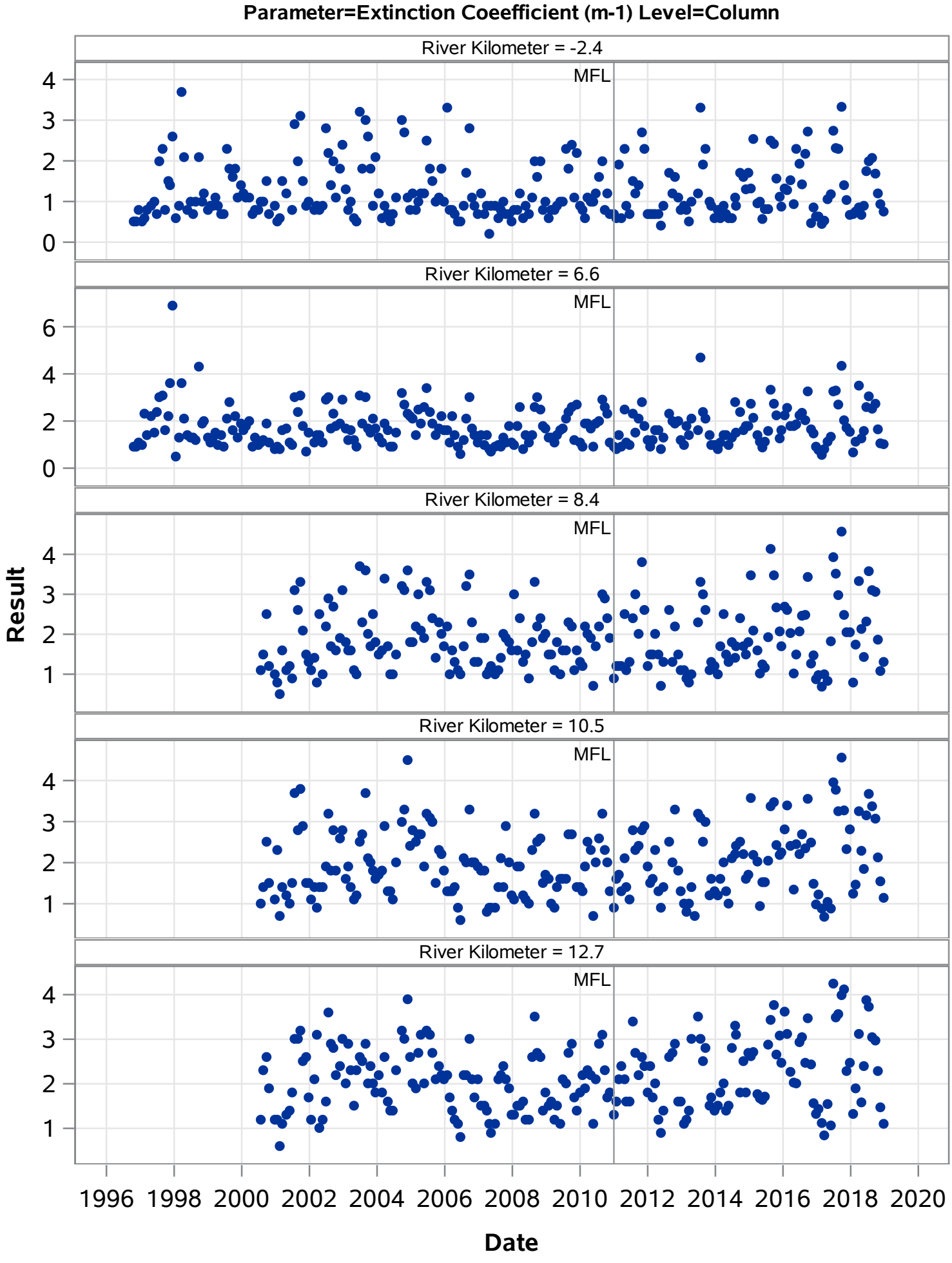

Parameter=Bottom Dissolved Oxygen (mg/L) Level=Bottom
River Kilometer = 32.3
MFL
15
10
5
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

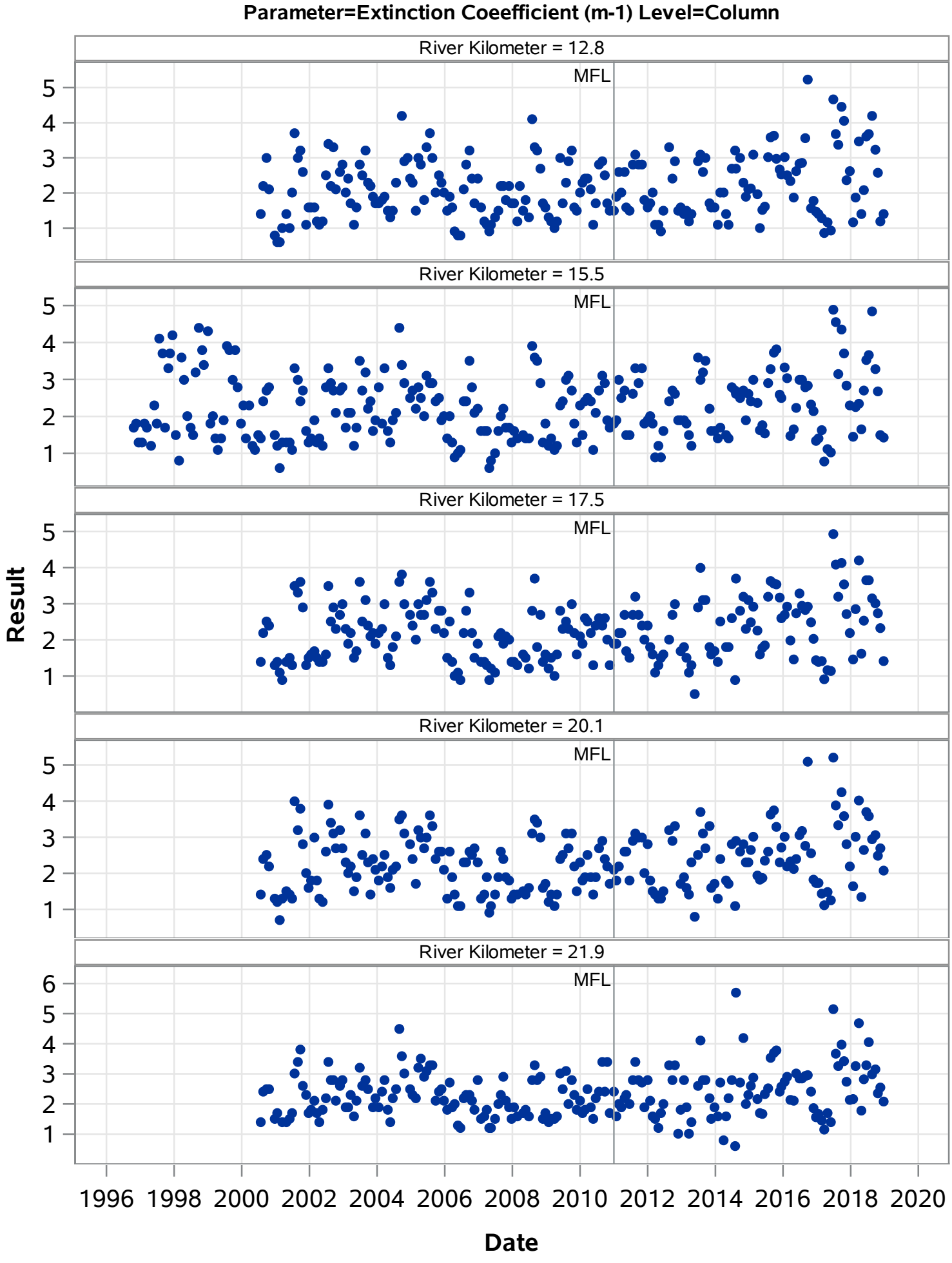

Parameter=Surface Dissolved Oxygen (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

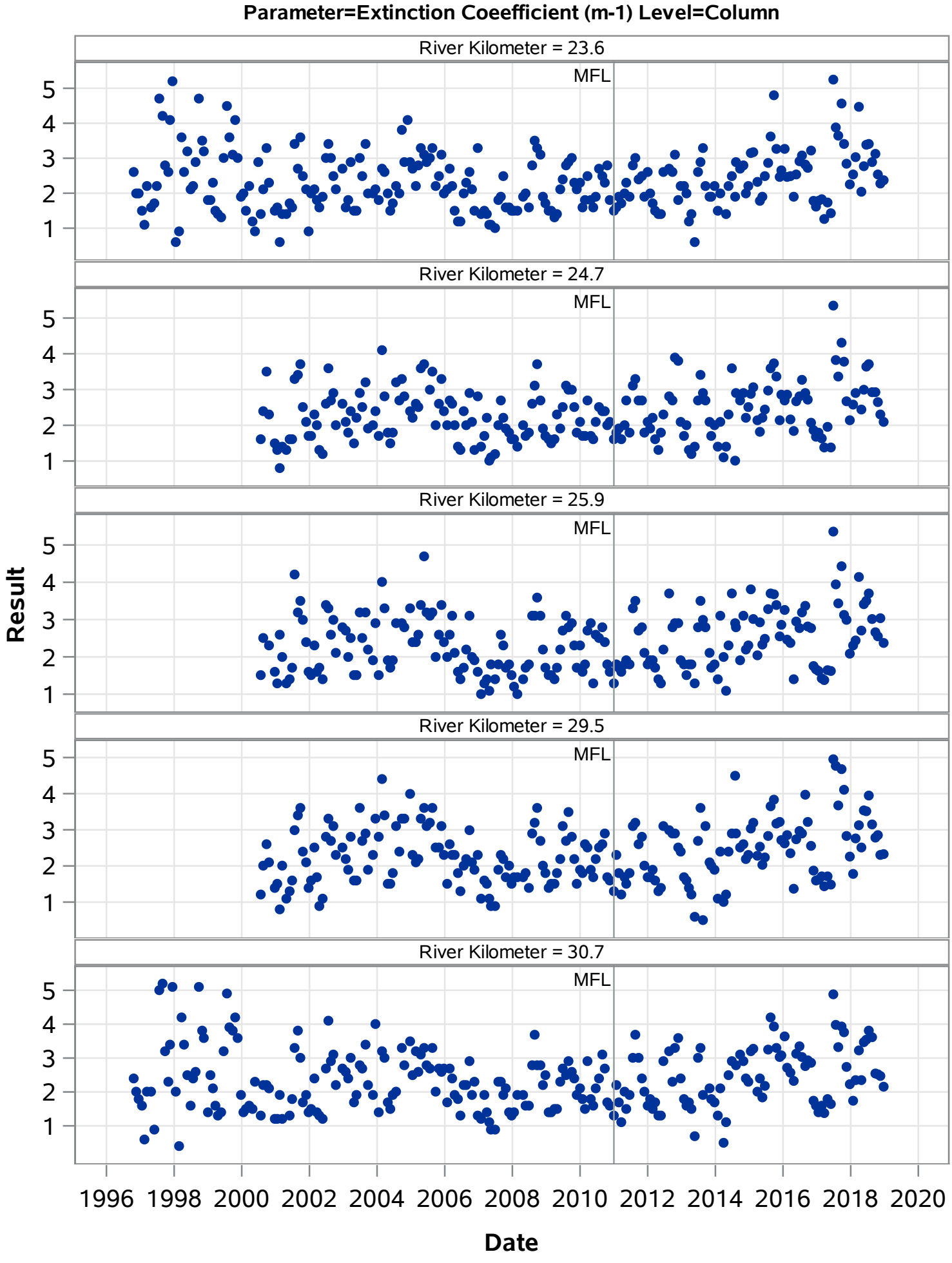

Parameter=Surface Dissolved Oxygen (mg/L) Level=Surface
River Kilometer = 12.8
MFL
12.5
10.0
7.5
5.0
2.5
0.0
River Kilometer = 15.5
MFL
10
5
0
River Kilometer = 17.5
MFL
12.5
10.0
7.5
5.0
2.5
River Kilometer = 20.1
MFL
15
10
5
0
River Kilometer = 21.9
MFL
20
15
10
5
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

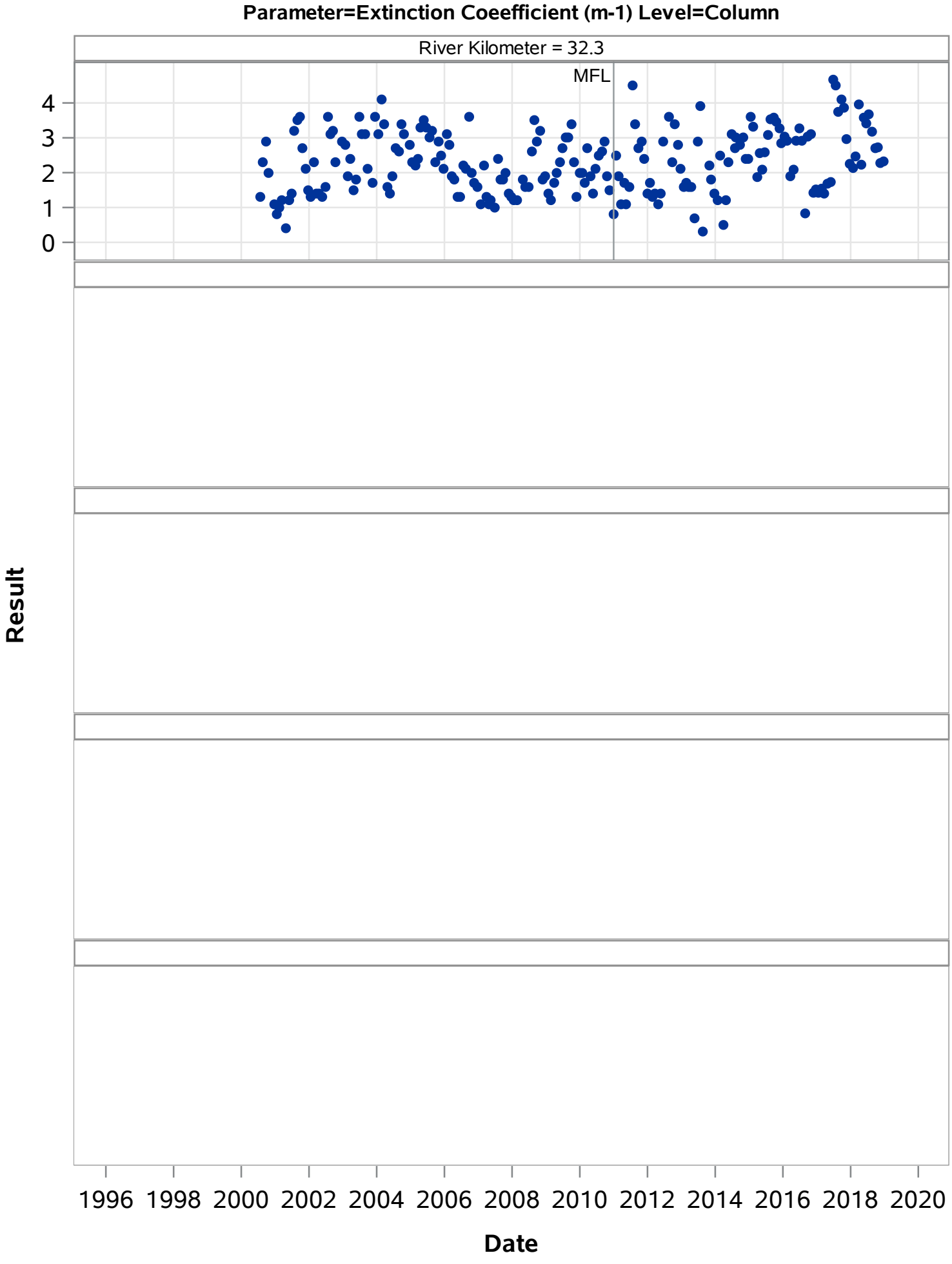

Parameter=Surface Dissolved Oxygen (mg/L) Level=Surface
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

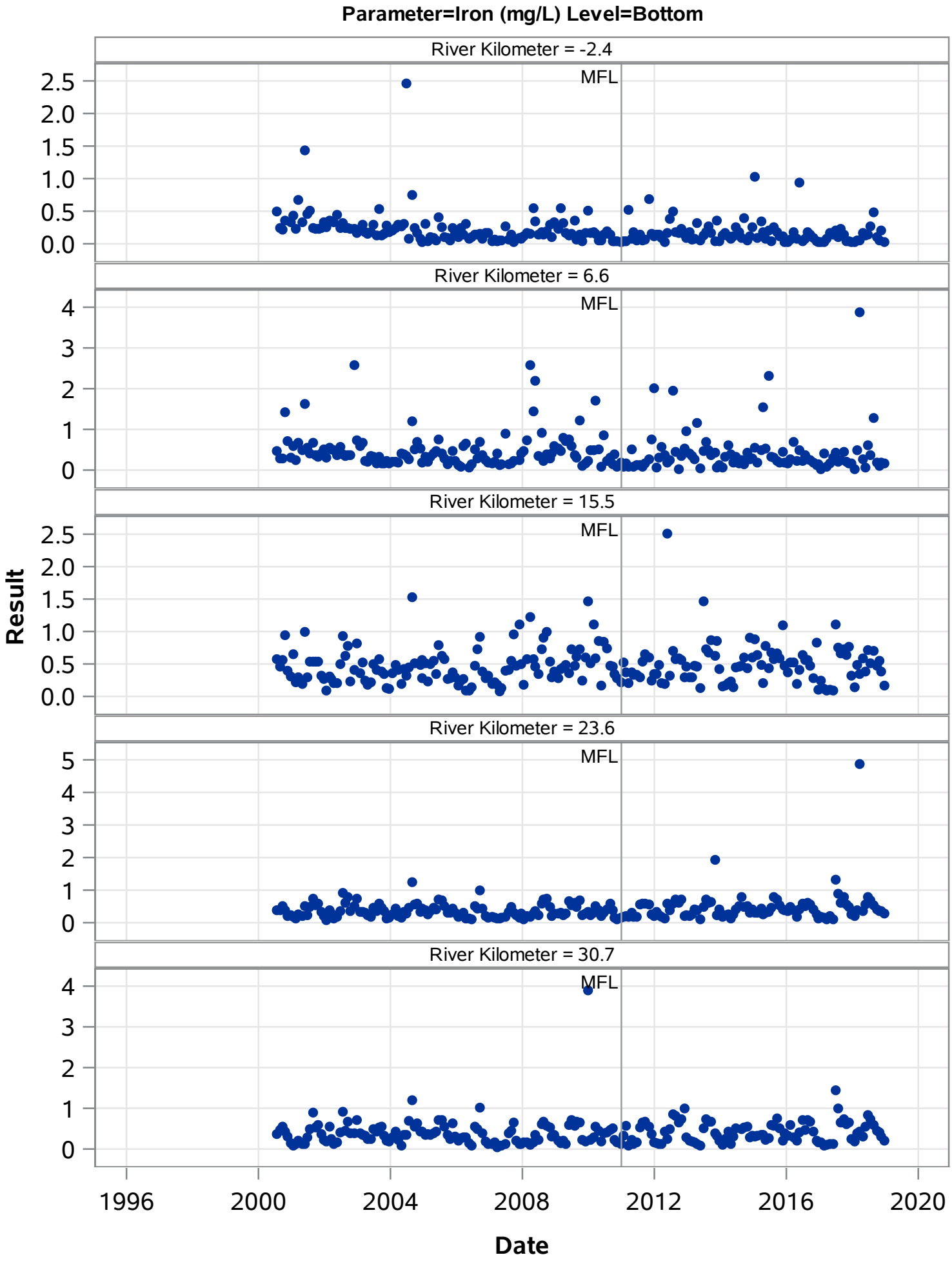

Parameter=Surface Dissolved Oxygen (mg/L) Level=Surface
River Kilometer = 32.3
MFL
15
10
5
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

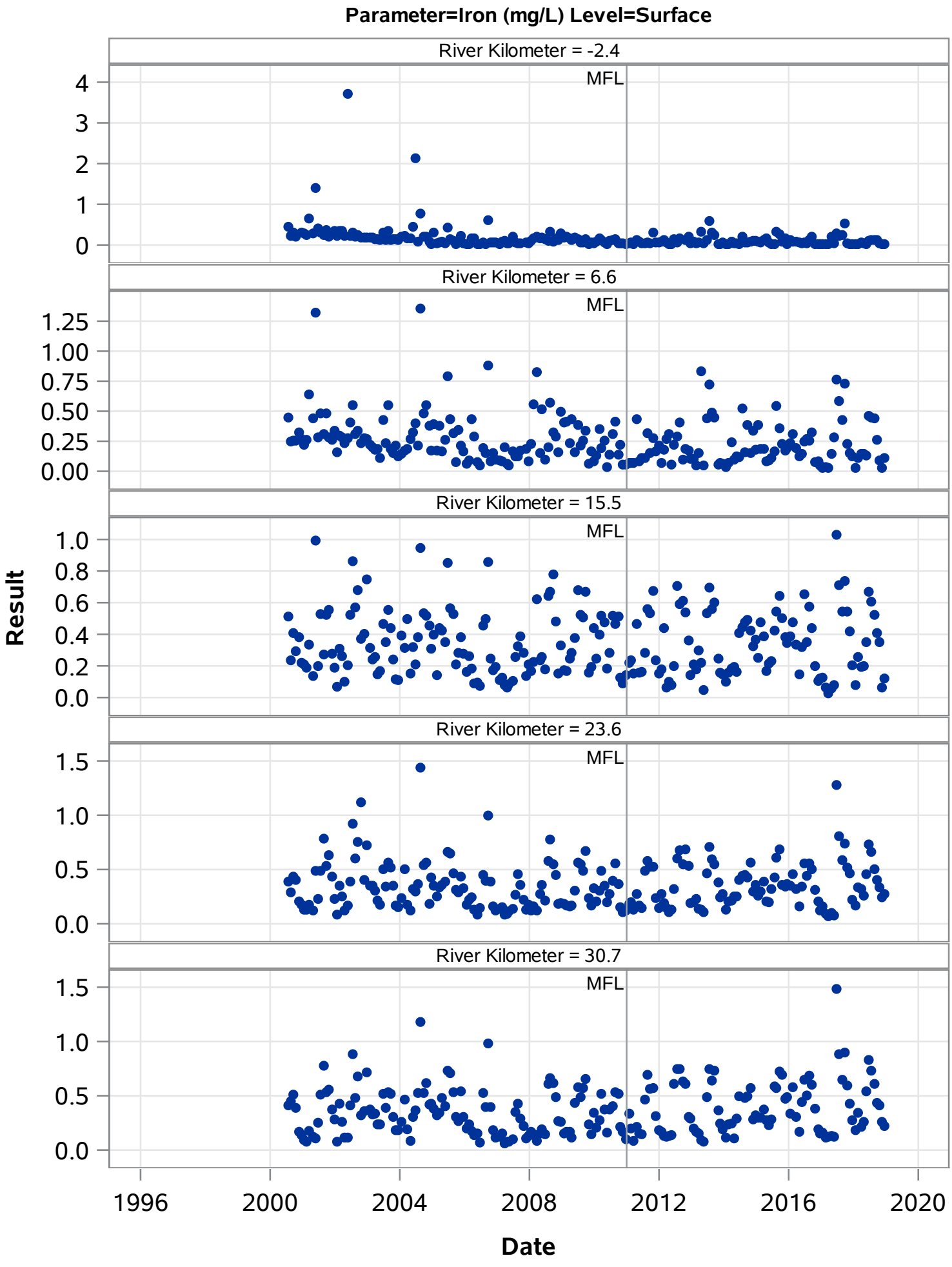

Parameter=Extinction Coeefficient (m-1) Level=Column
River Kilometer = -2.4
MFL
River Kilometer = 6.6
MFL
River Kilometer = 8.4
MFL
River Kilometer = 10.5
MFL
River Kilometer = 12.7
MFL
Result
Date
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020

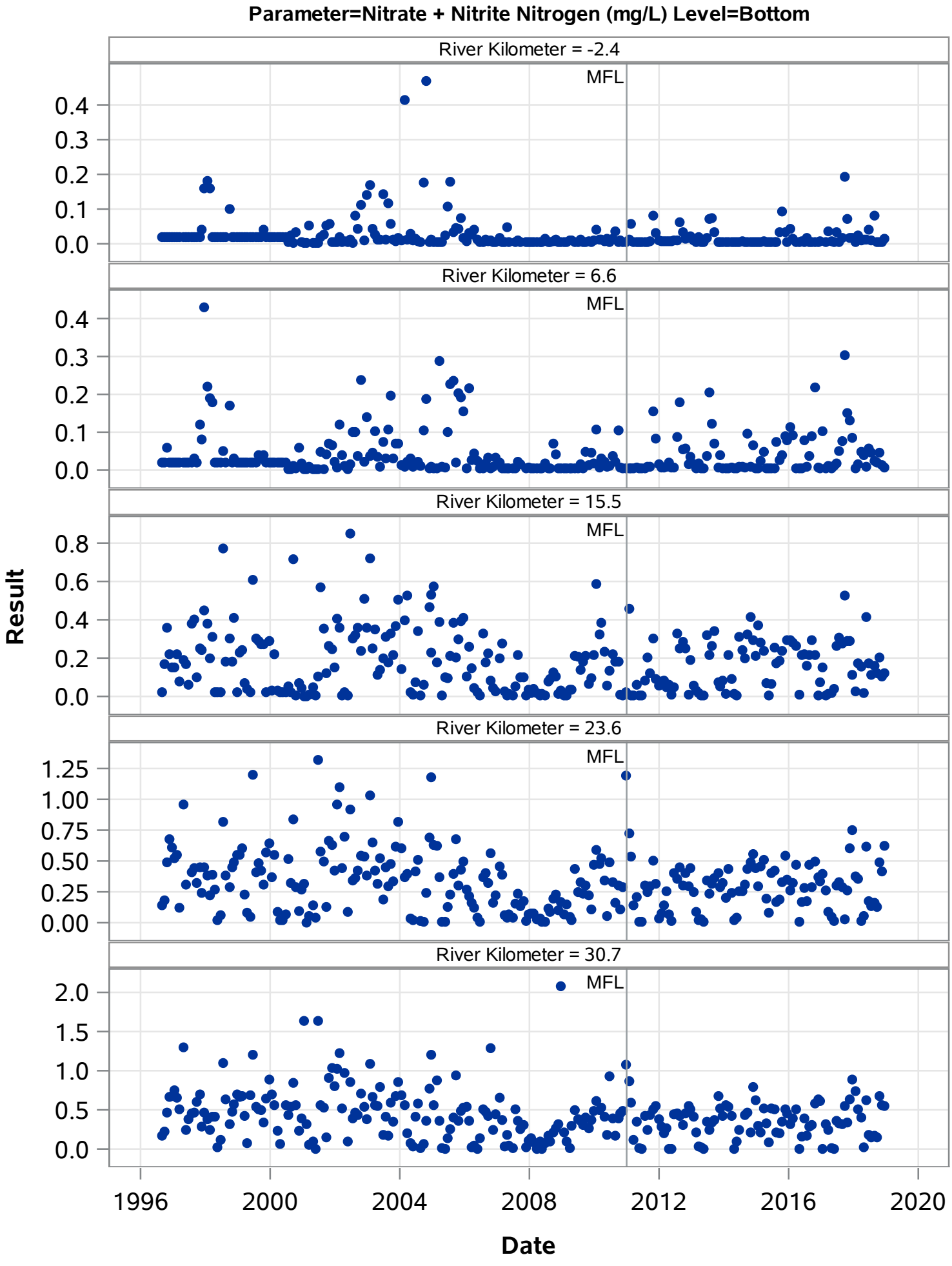

Parameter=Extinction Coeefficient (m-1) Level=Column
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020

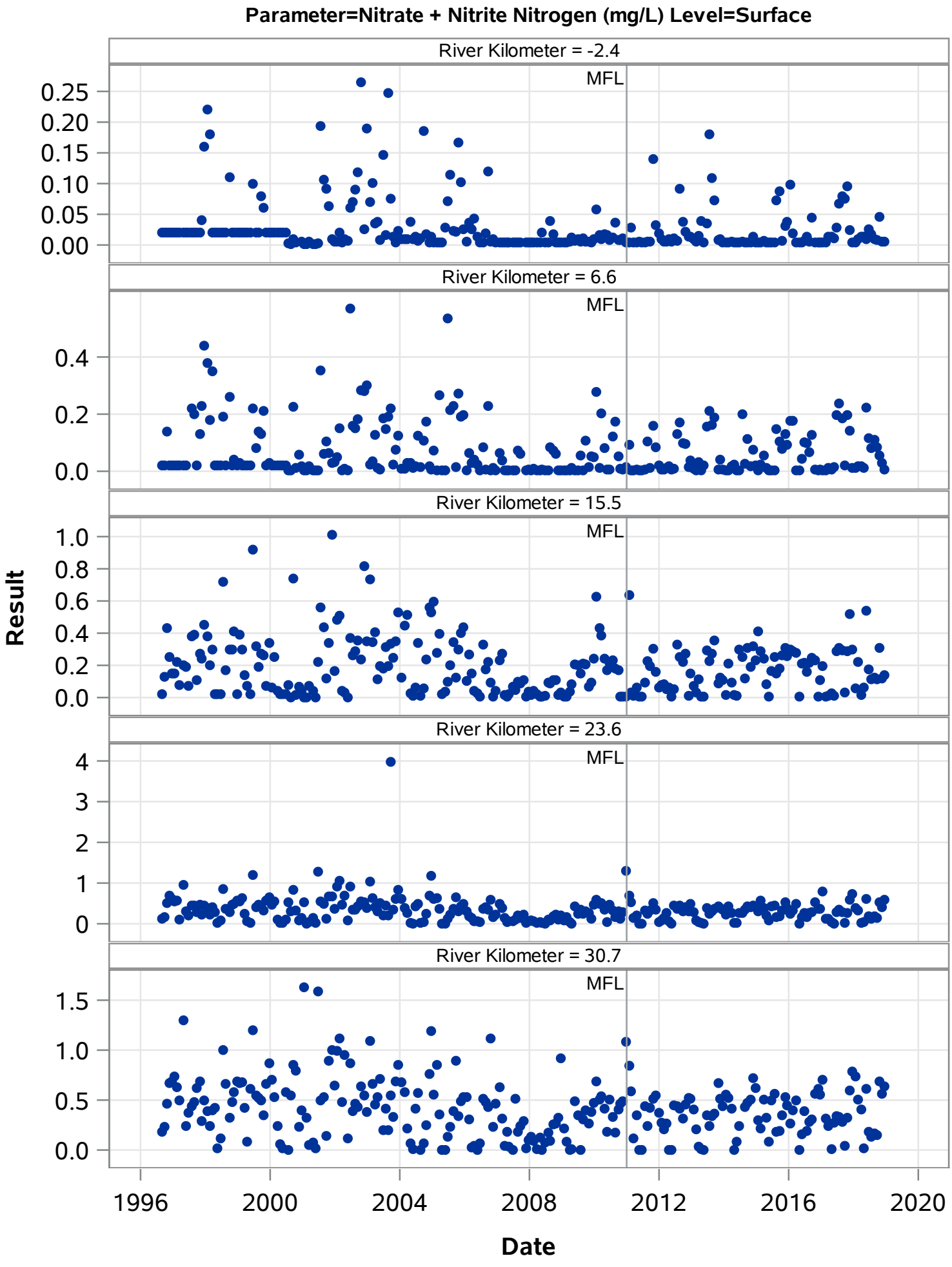

Parameter=Extinction Coeefficient (m-1) Level=Column
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
1
2
3
4
5
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Date

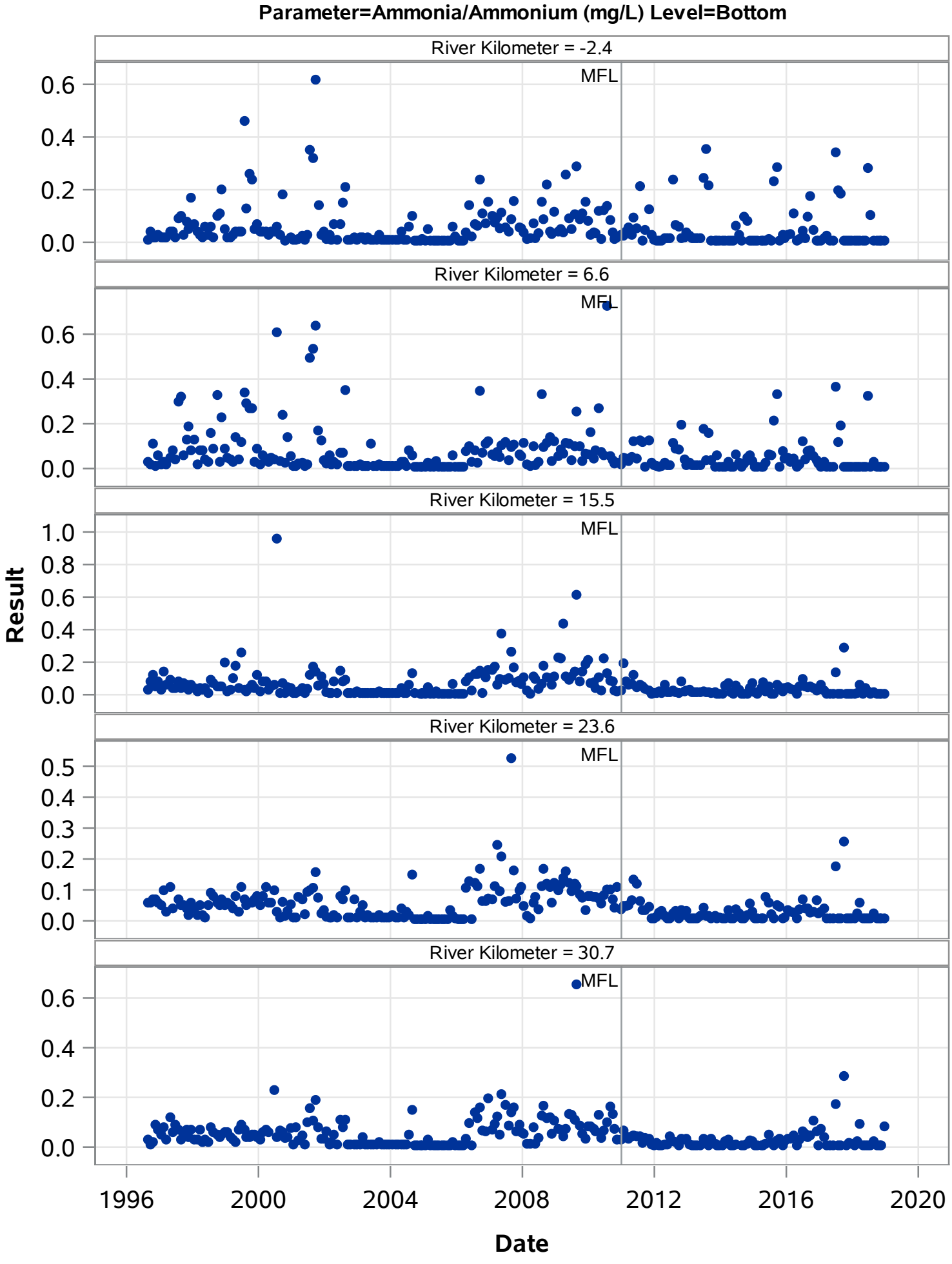

Parameter=Extinction Coeefficient (m-1) Level=Column
River Kilometer = 32.3
MFL
4
3
2
1
0
Result
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Date

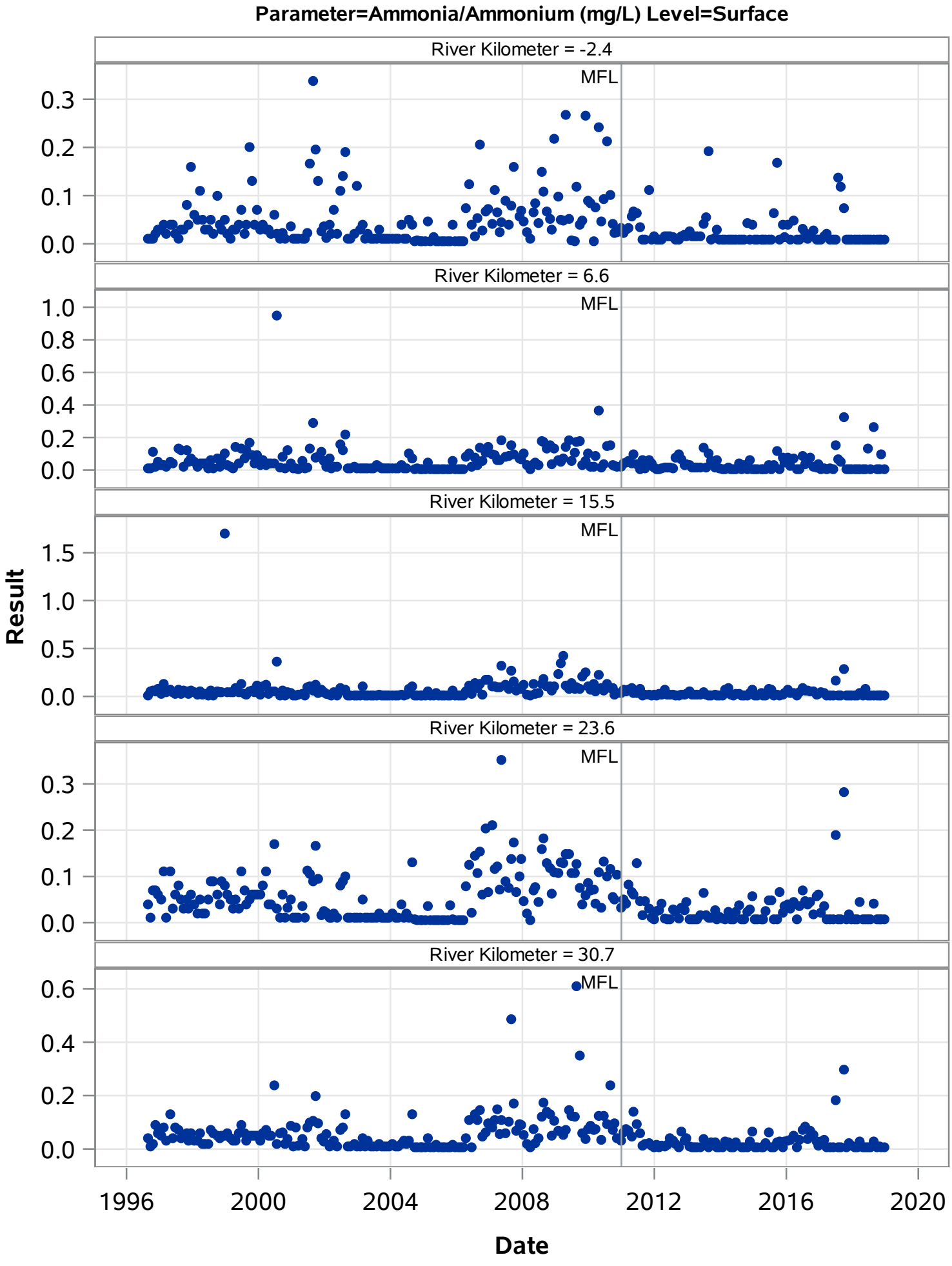

Parameter=Iron (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

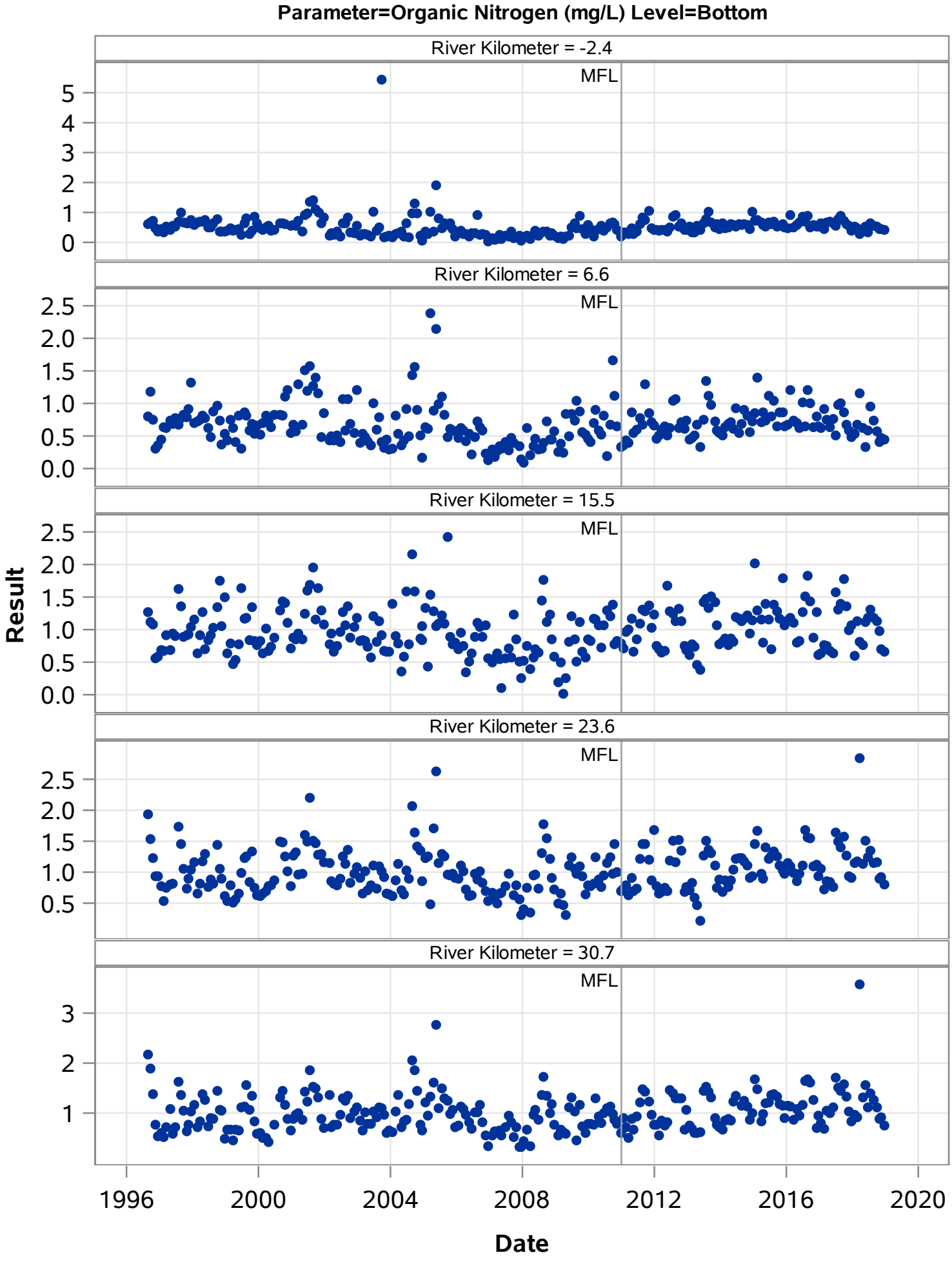

Parameter=Iron (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

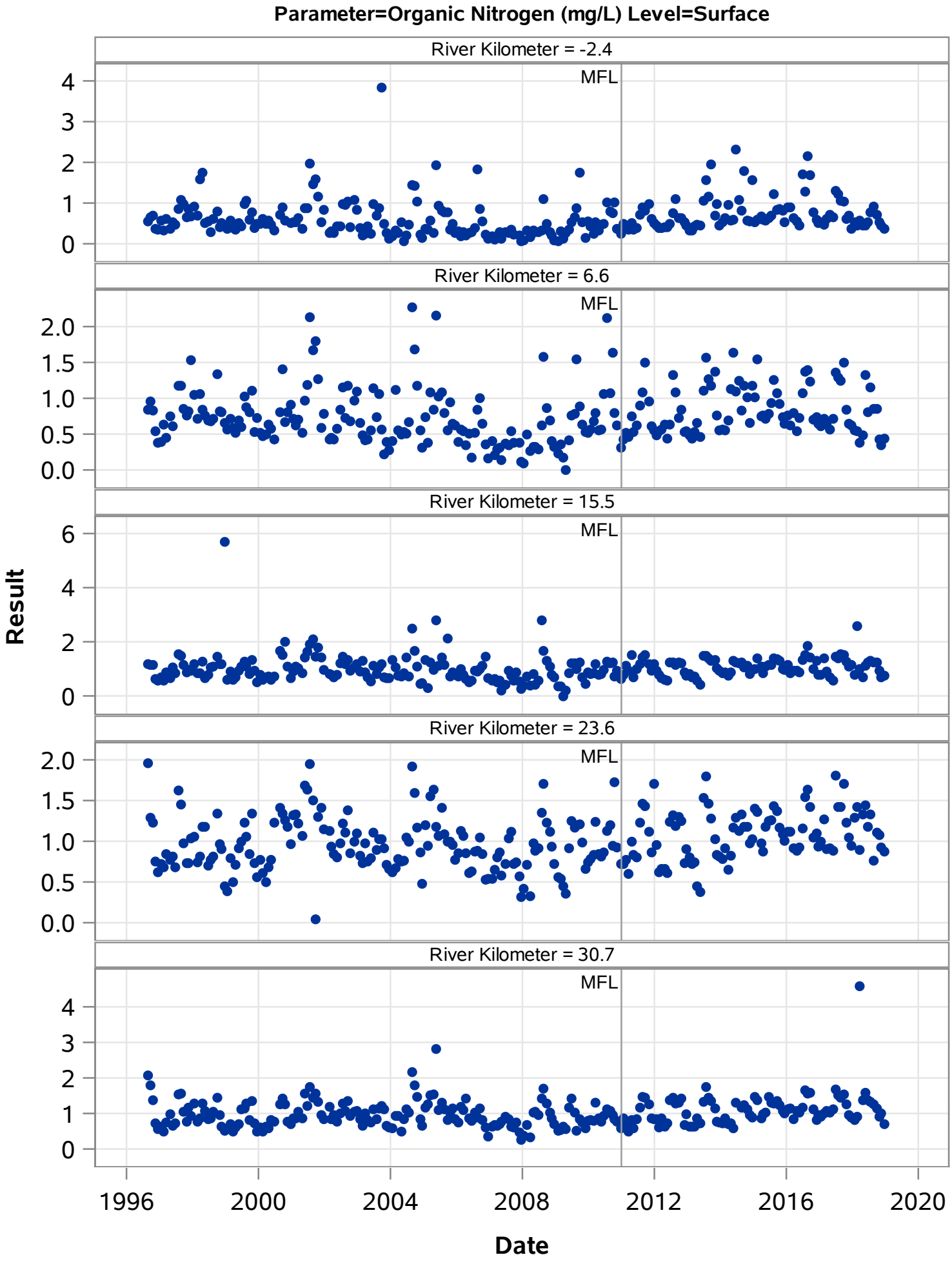

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

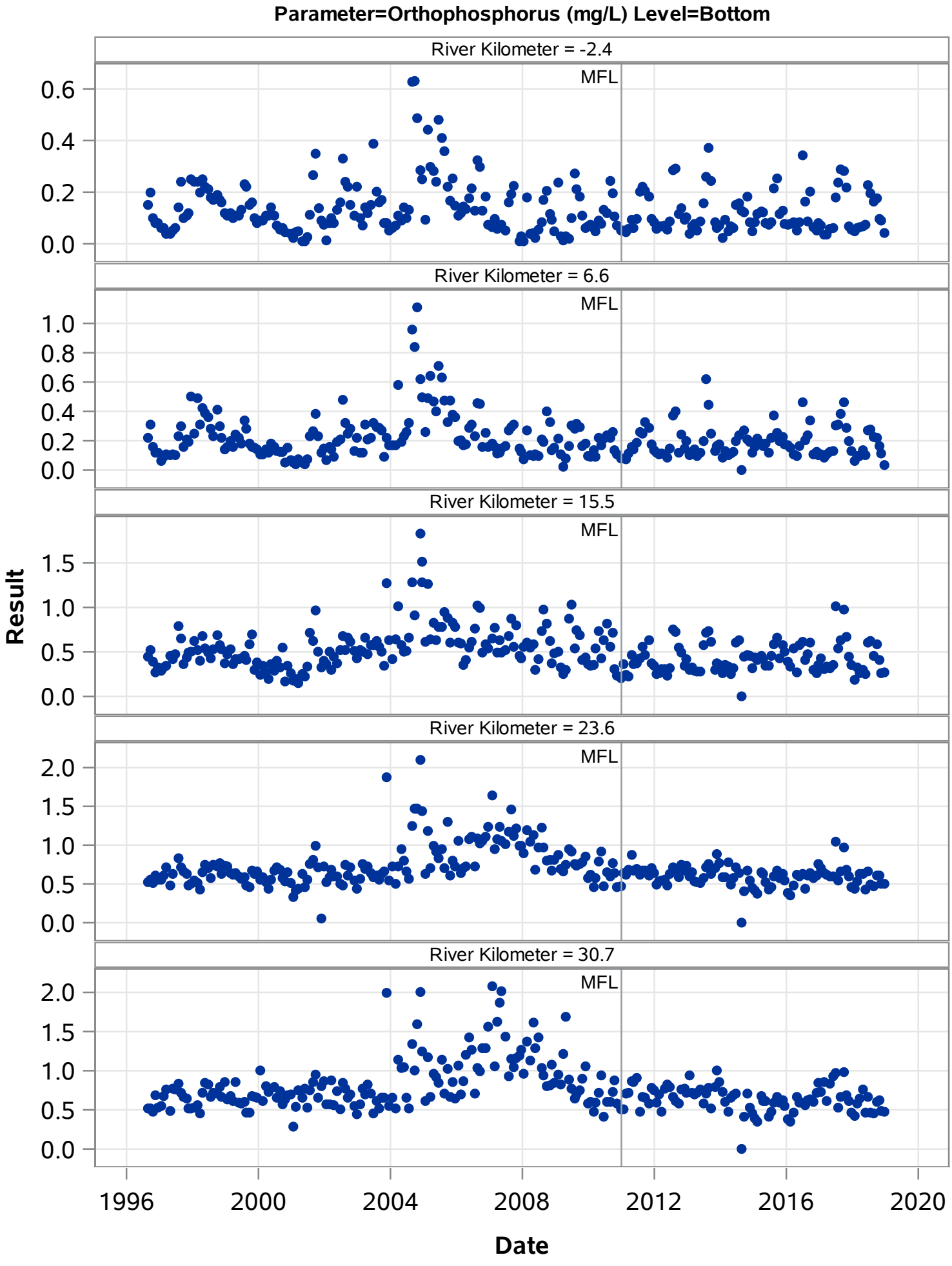

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Level=Surface
River Kilometer = -2.4
MFL
0.25
0.20
0.15
0.10
0.05
0.00
River Kilometer = 6.6
MFL
0.4
0.2
0.0
River Kilometer = 15.5
MFL
1.0
0.8
0.6
0.4
0.2
0.0
River Kilometer = 23.6
MFL
4
3
2
1
0
River Kilometer = 30.7
MFL
1.5
1.0
0.5
0.0
Result
1996
2000
2004
2008
2012
2016
2020
Date

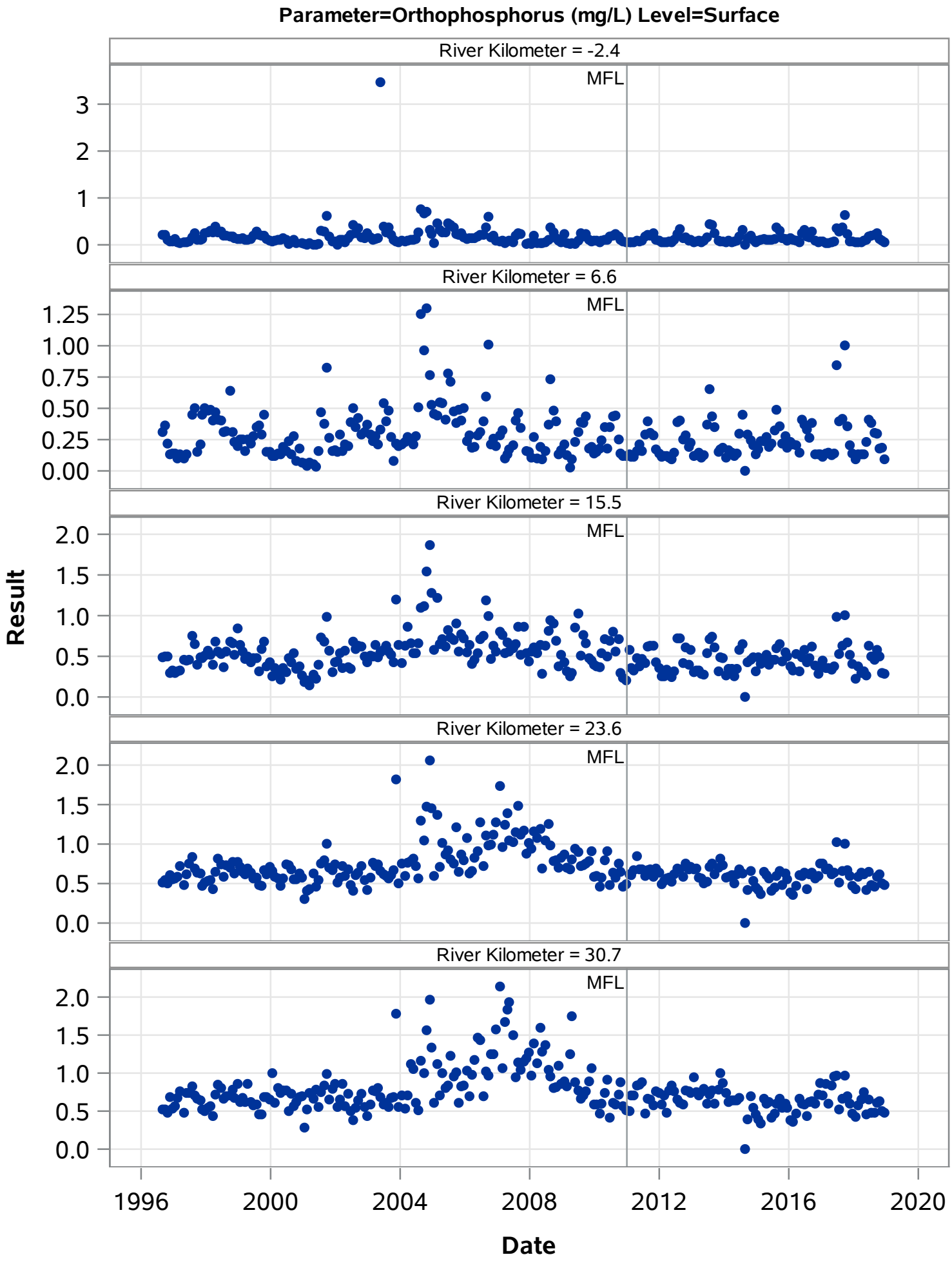

Parameter=Ammonia/Ammonium (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

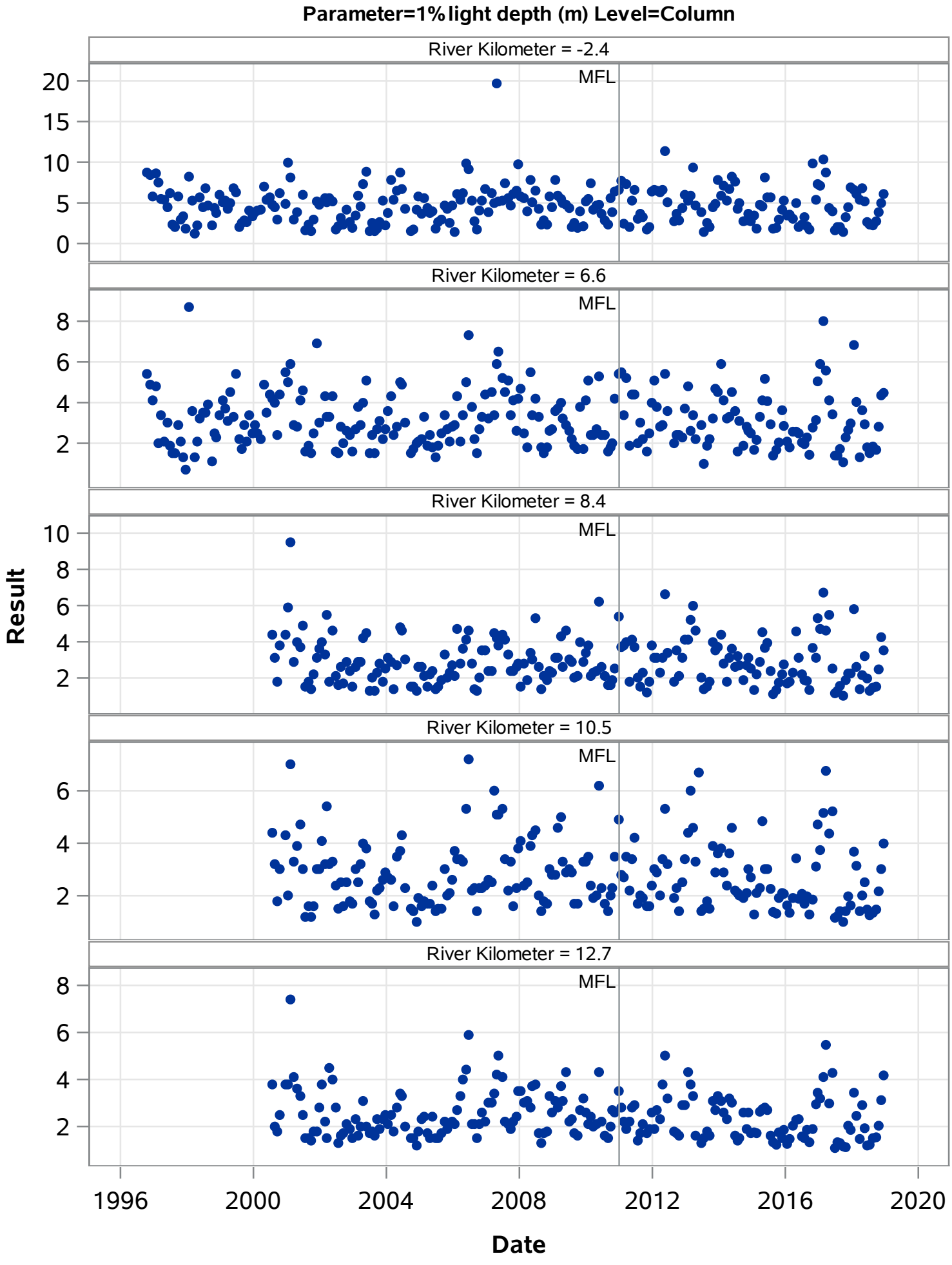

Parameter=Ammonia/Ammonium (mg/L) Level=Surface
River Kilometer = -2.4
MFL
0.3
0.2
0.1
0.0
River Kilometer = 6.6
MFL
1.0
0.8
0.6
0.4
0.2
0.0
River Kilometer = 15.5
MFL
1.5
1.0
0.5
0.0
River Kilometer = 23.6
MFL
0.3
0.2
0.1
0.0
River Kilometer = 30.7
MFL
0.6
0.4
0.2
0.0
Result
1996
2000
2004
2008
2012
2016
2020
Date

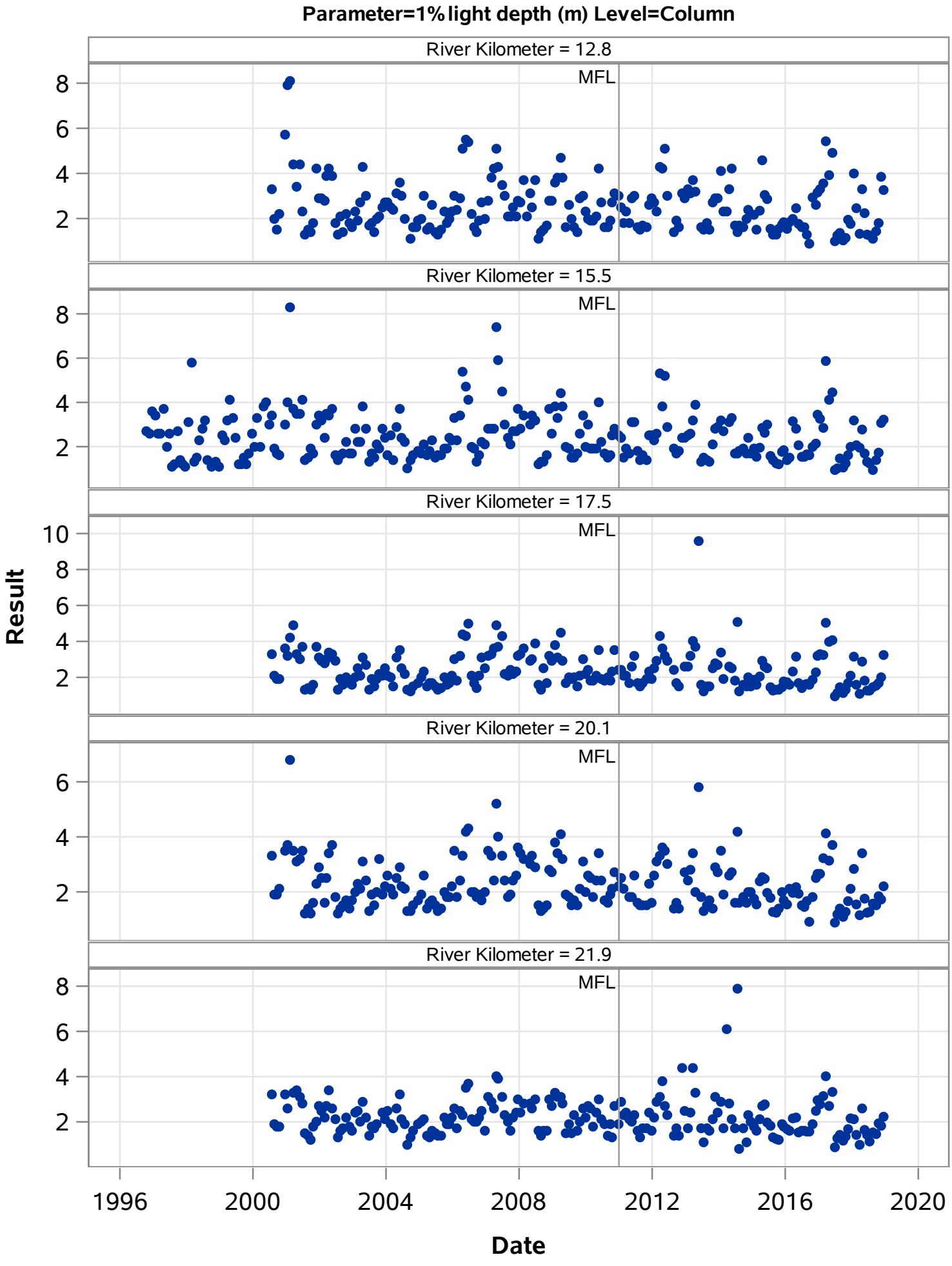

Parameter=Organic Nitrogen (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

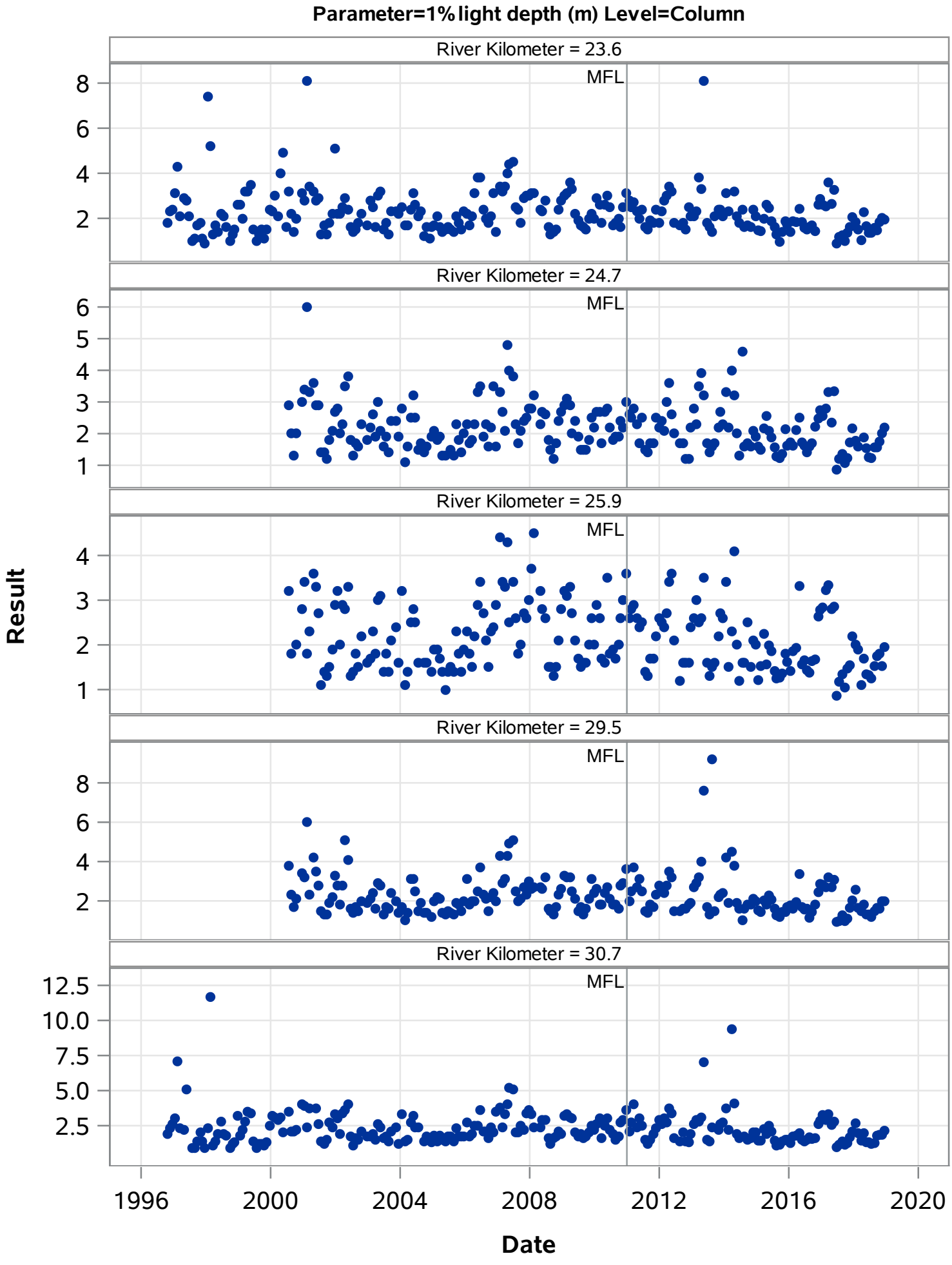

Parameter=Organic Nitrogen (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

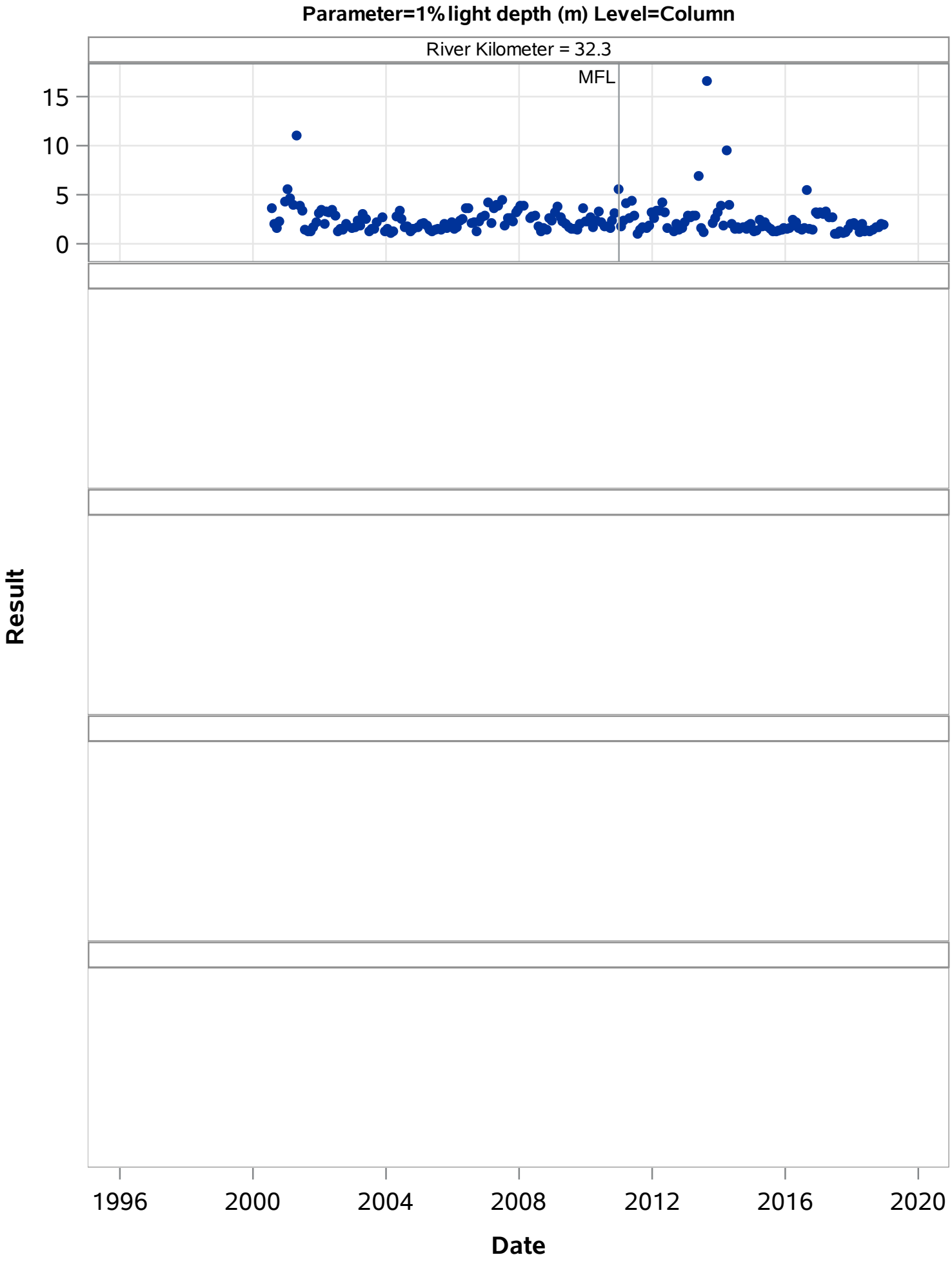

Parameter=Orthophosphorus (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

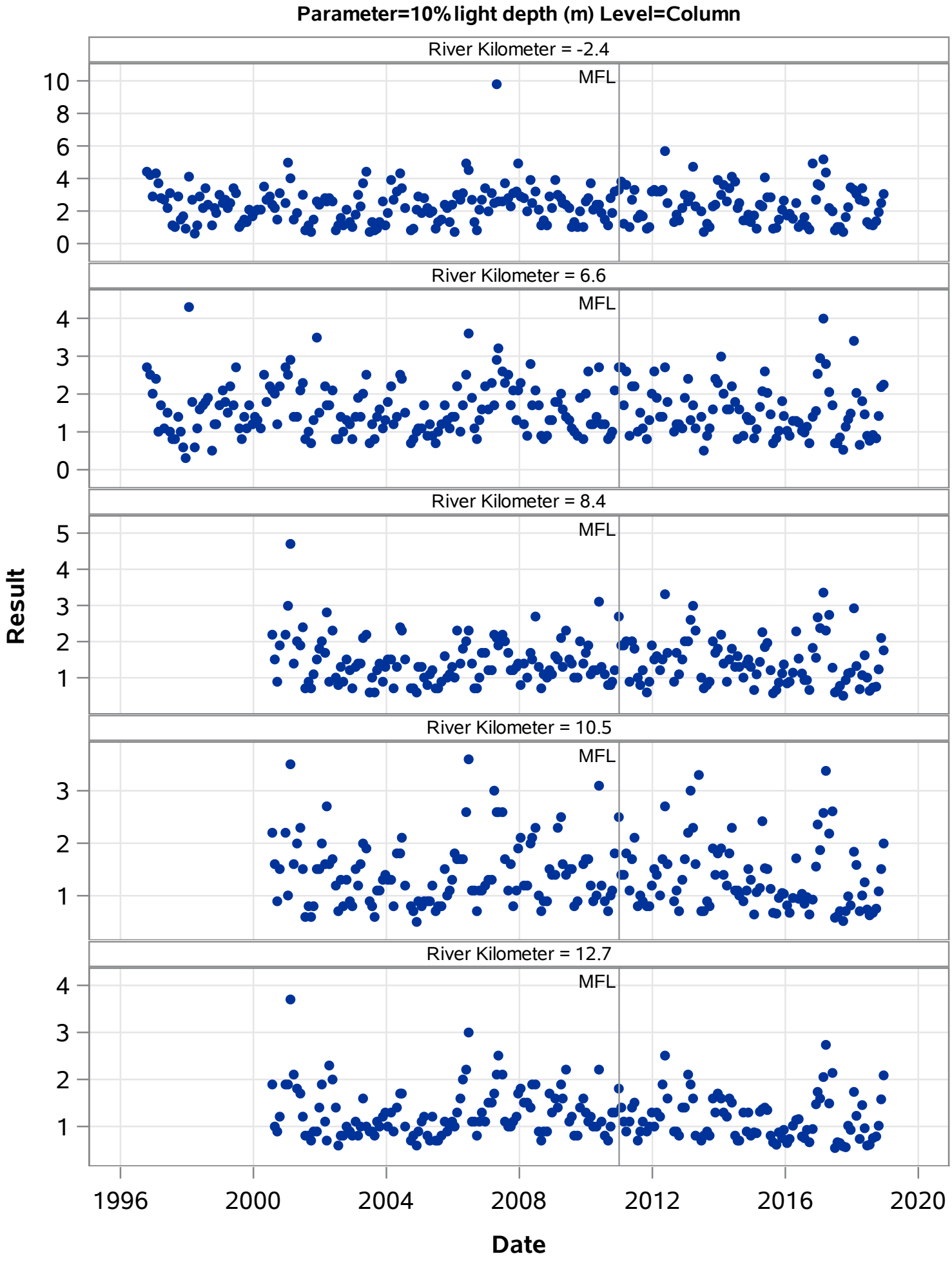

Parameter=Orthophosphorus (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

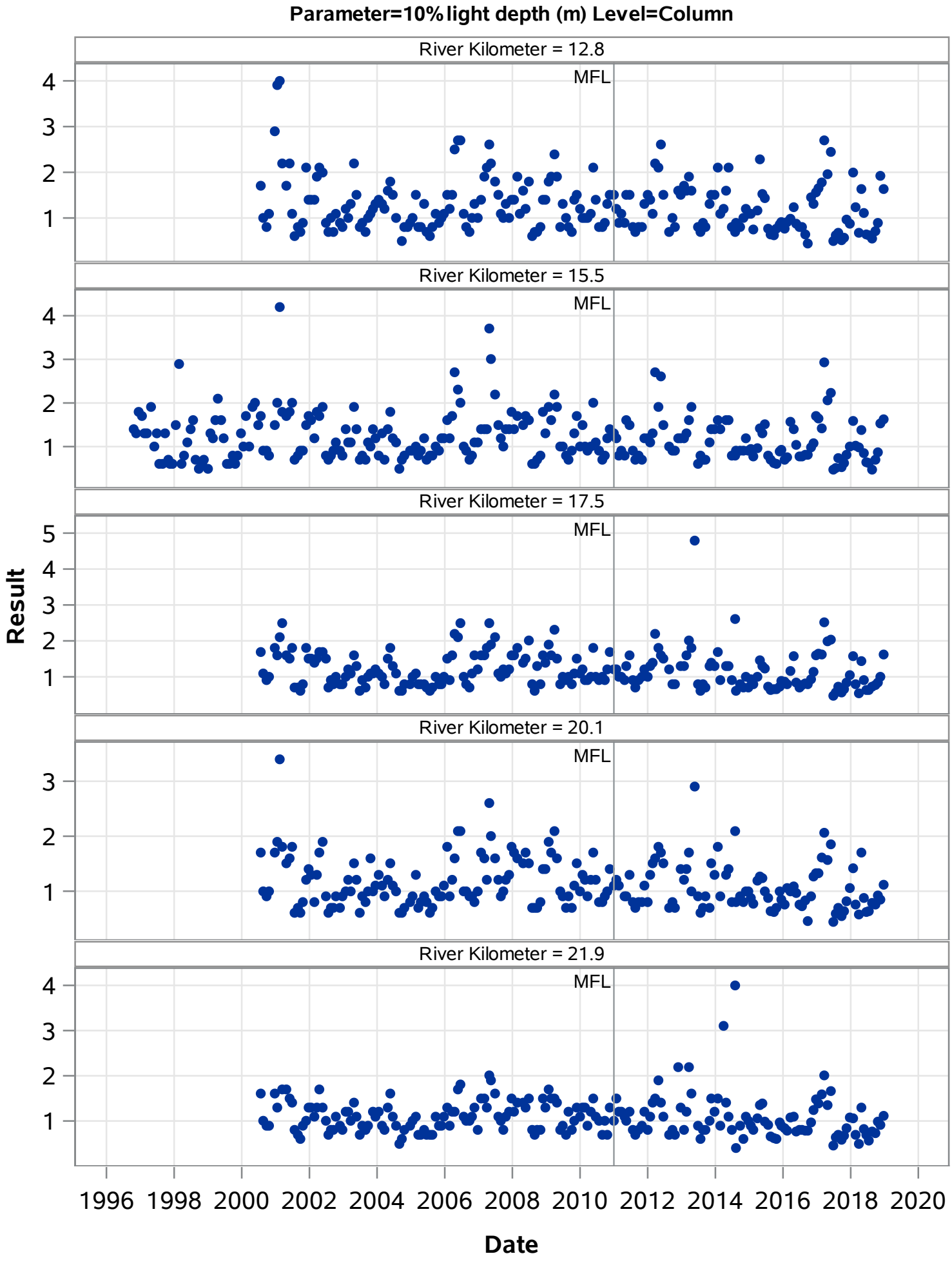

Parameter=1% light depth (m) Level=Column
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

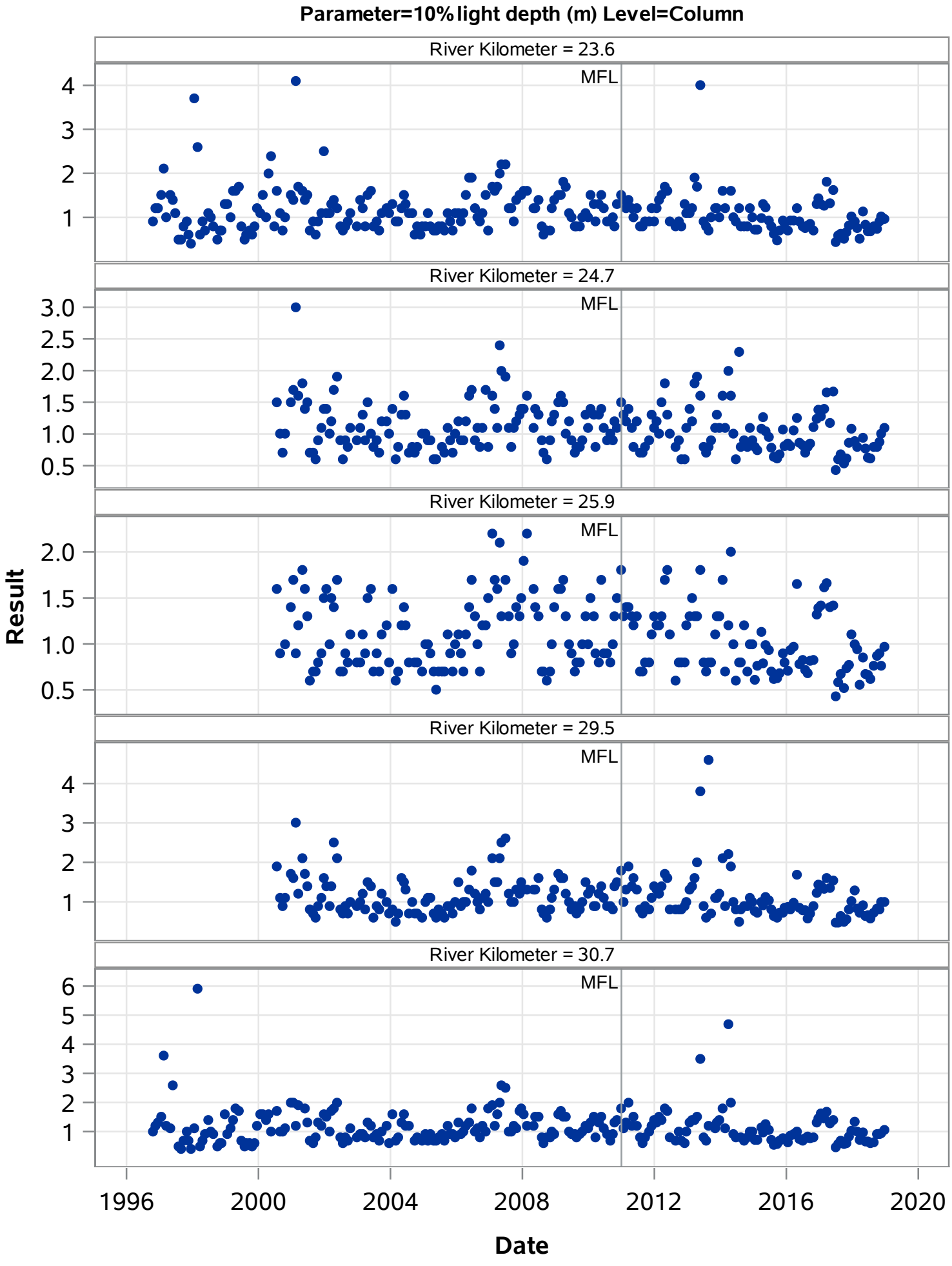

Parameter=1% light depth (m) Level=Column
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

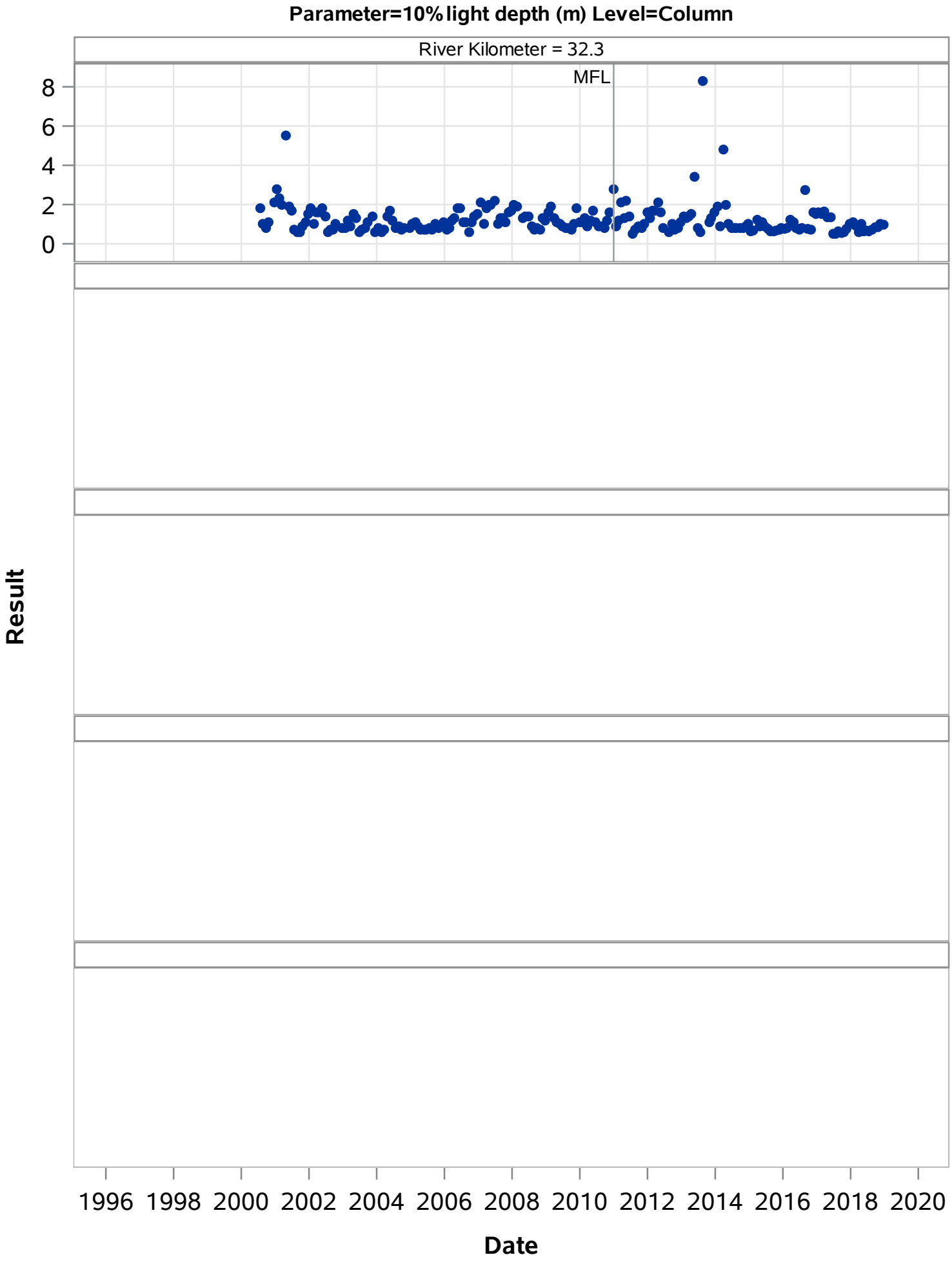

Parameter=1% light depth (m) Level=Column
River Kilometer = 23.6
MFL
8
6
4
2
River Kilometer = 24.7
MFL
6
5
4
3
2
1
River Kilometer = 25.9
MFL
4
3
2
1
River Kilometer = 29.5
MFL
8
6
4
2
River Kilometer = 30.7
MFL
12.5
10.0
7.5
5.0
2.5
Result
1996
2000
2004
2008
2012
2016
2020
Date

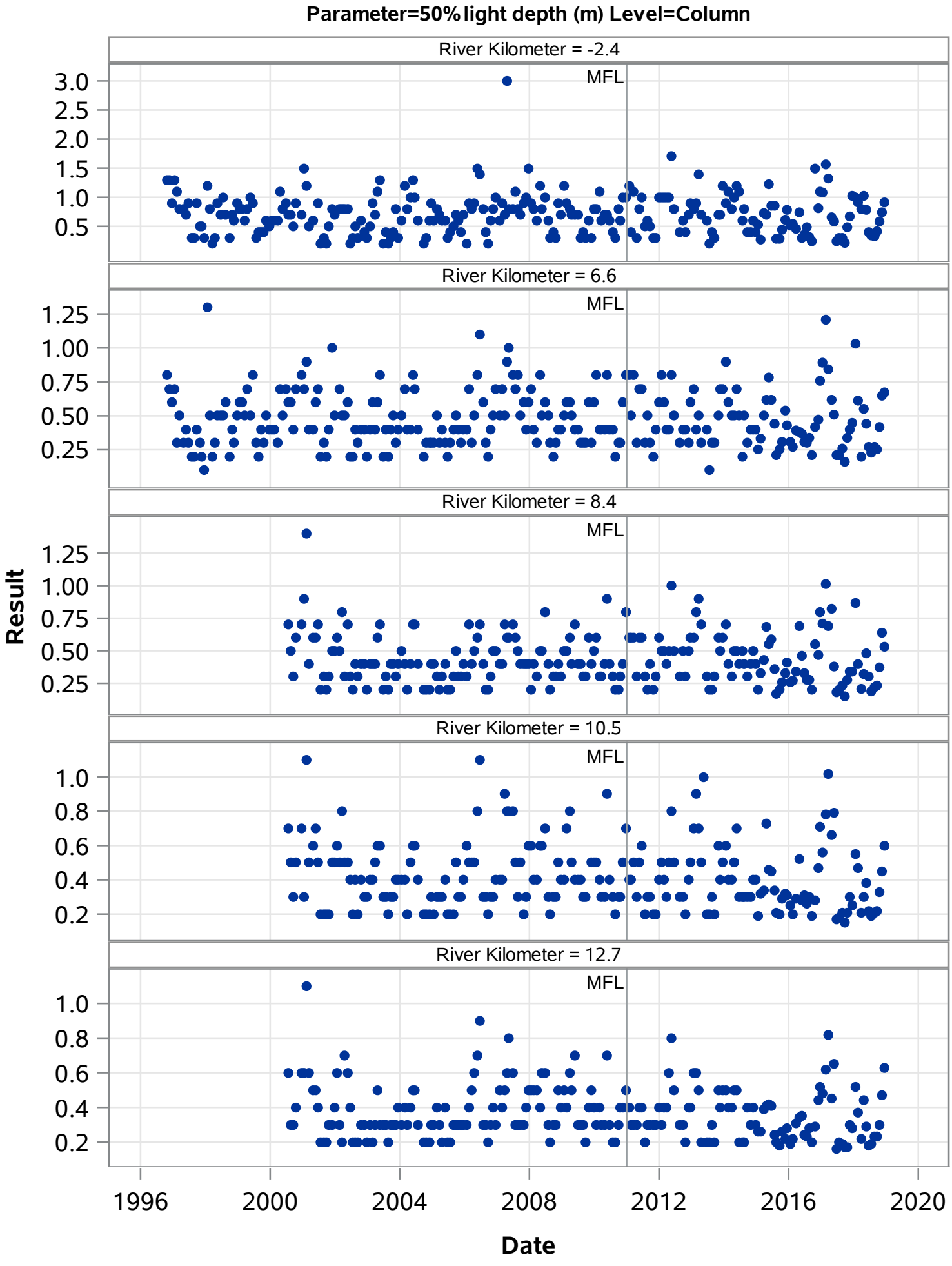

Parameter=1% light depth (m) Level=Column
River Kilometer = 32.3
MFL
15
10
5
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

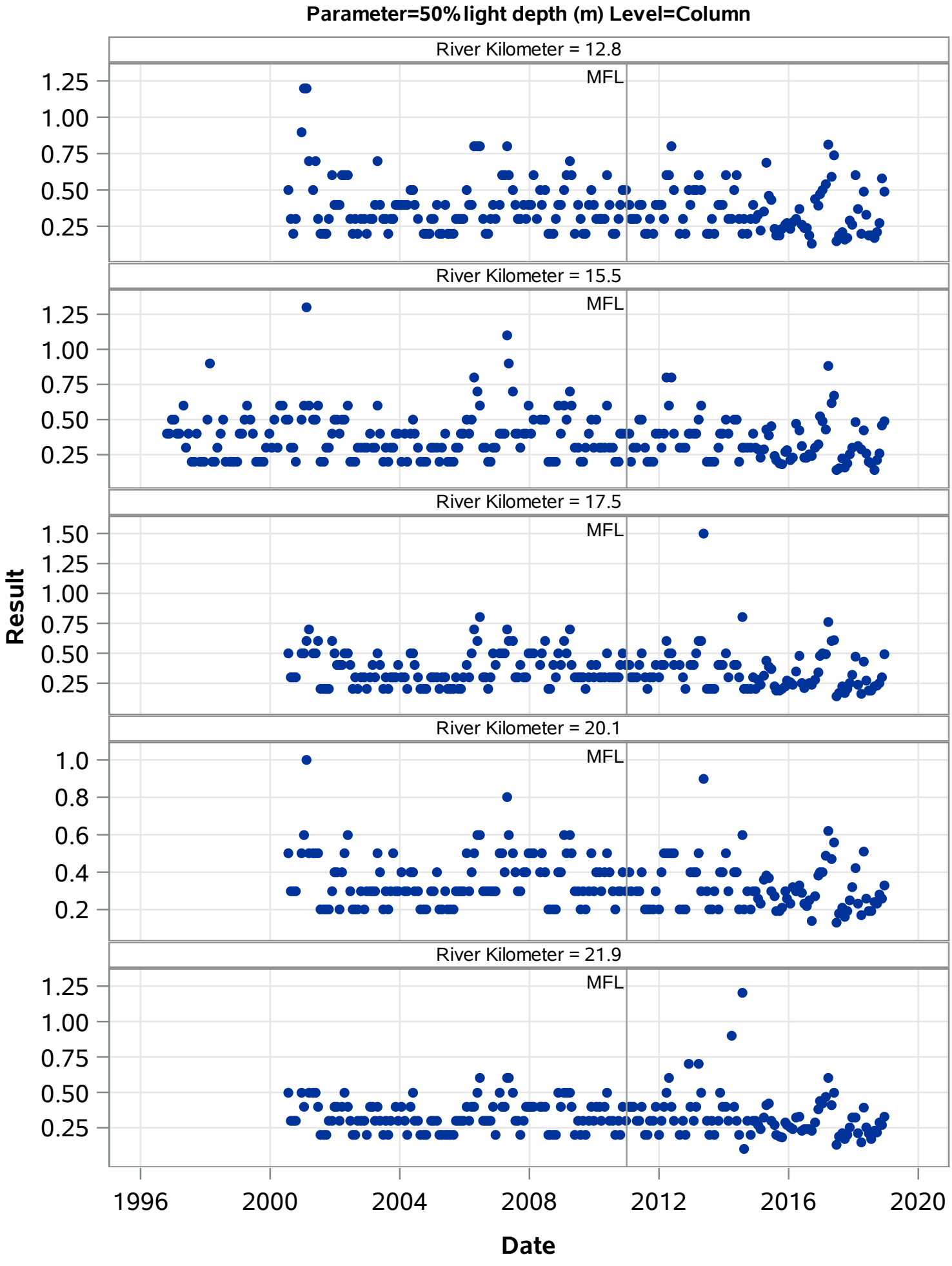

Parameter=10% light depth (m) Level=Column
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

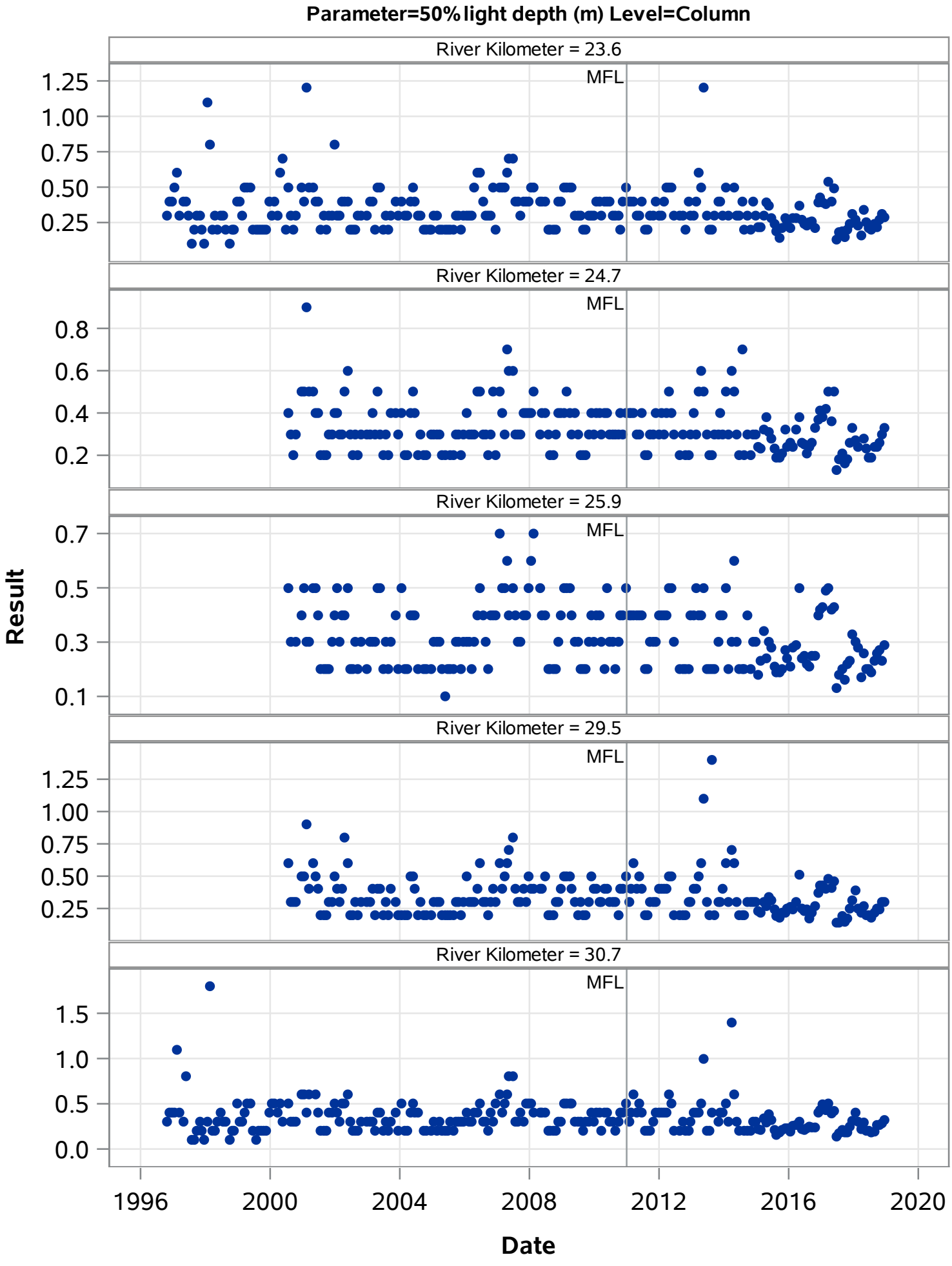

Parameter=10% light depth (m) Level=Column
River Kilometer = 12.8
MFL
River Kilometer = 15.5
MFL
River Kilometer = 17.5
MFL
River Kilometer = 20.1
MFL
River Kilometer = 21.9
MFL
Result
Date
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020

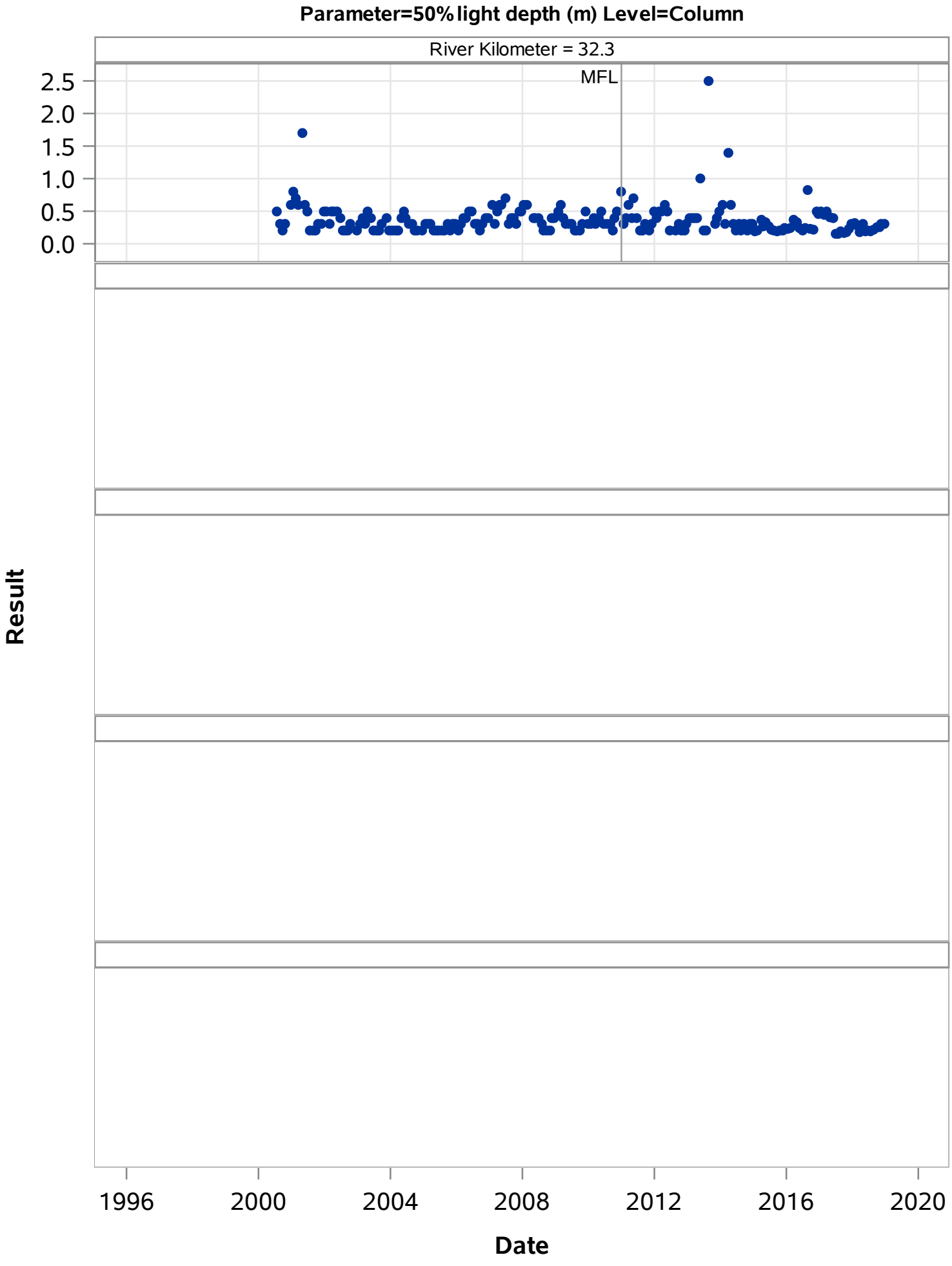

Parameter=10% light depth (m) Level=Column
River Kilometer = 23.6
MFL
River Kilometer = 24.7
MFL
River Kilometer = 25.9
MFL
River Kilometer = 29.5
MFL
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

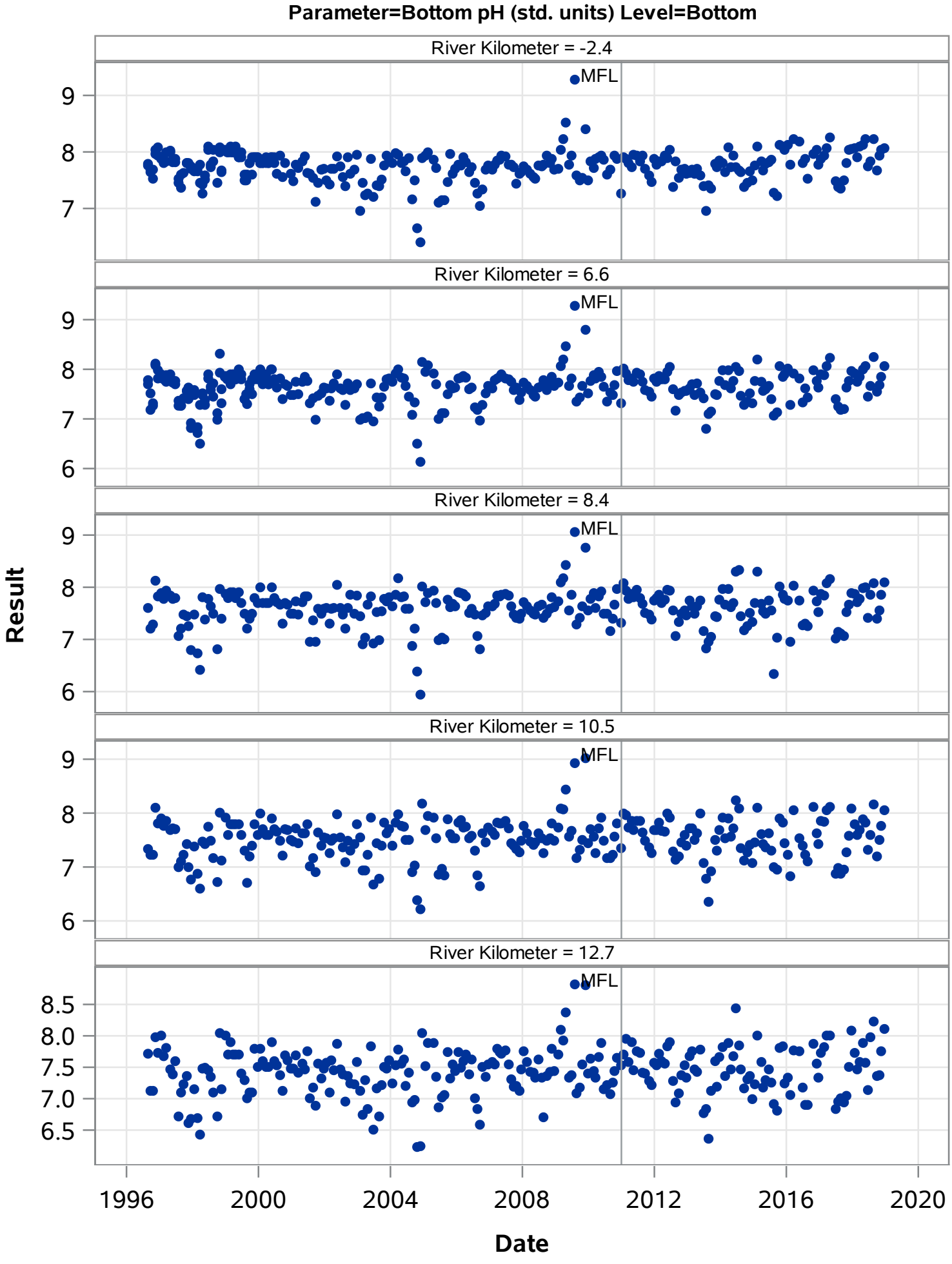

Parameter=10% light depth (m) Level=Column
River Kilometer = 32.3
MFL
8
6
4
2
0
Result
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Date

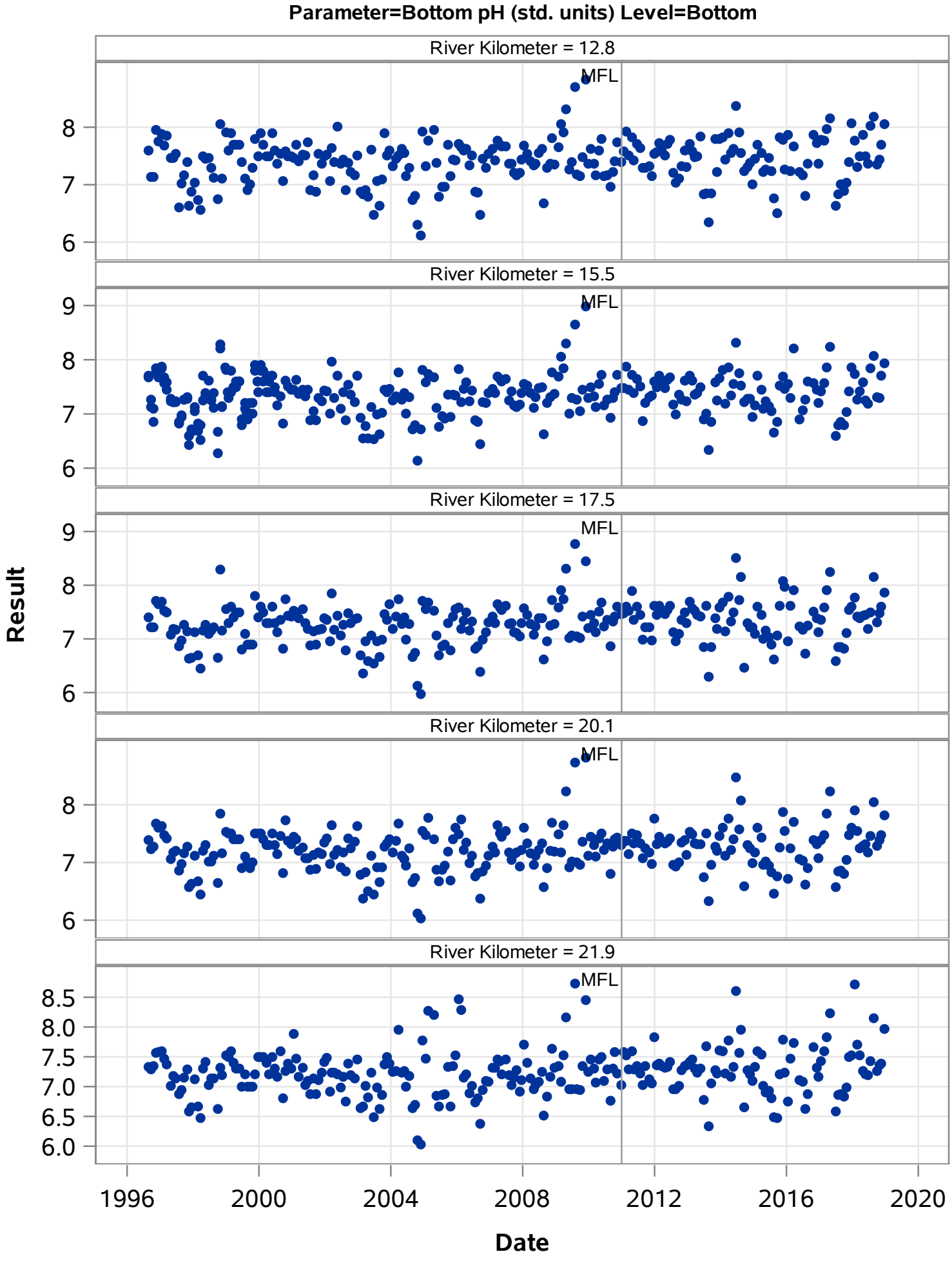

Parameter=50% light depth (m) Level=Column
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

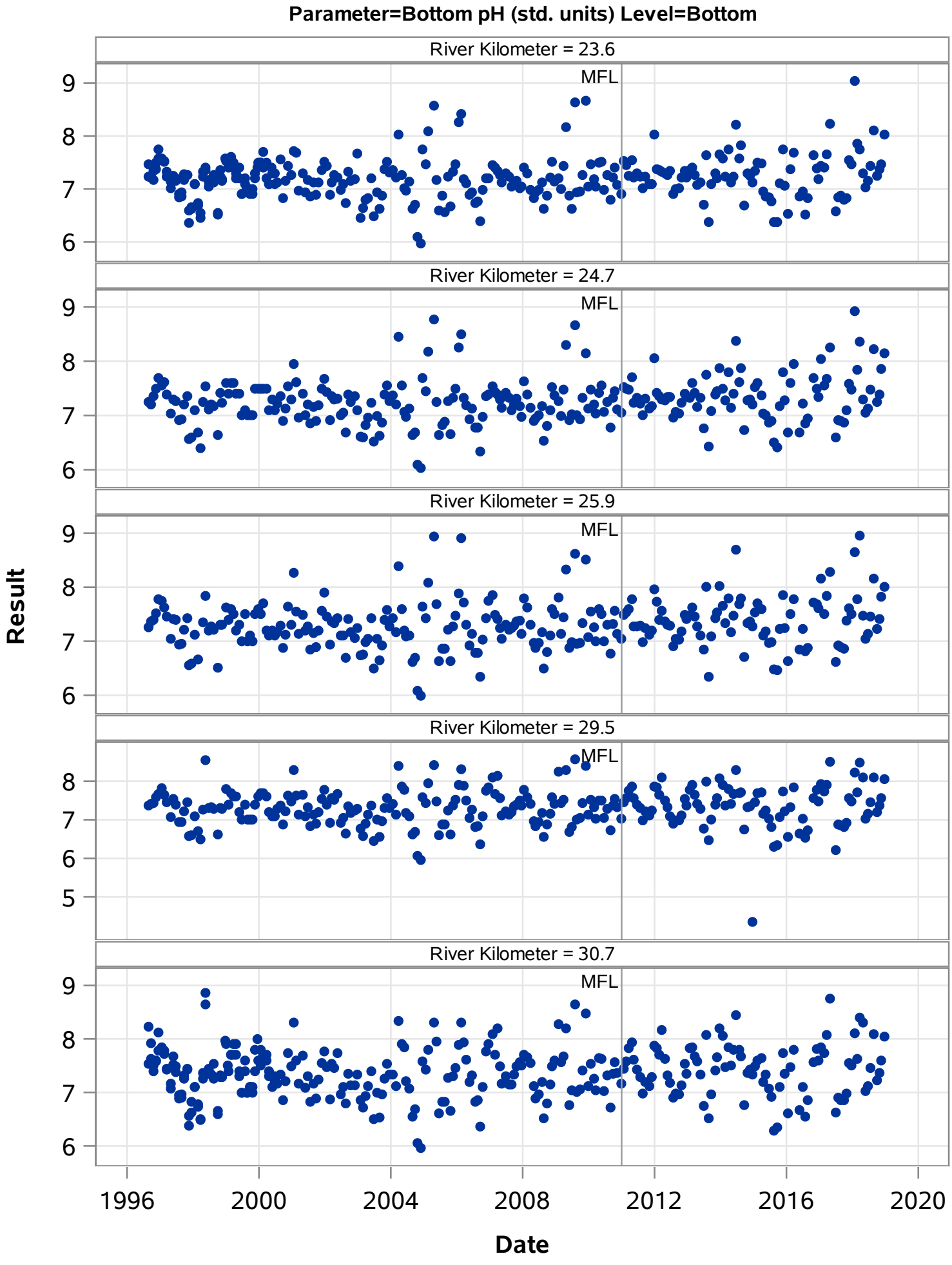

Parameter=50% light depth (m) Level=Column
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

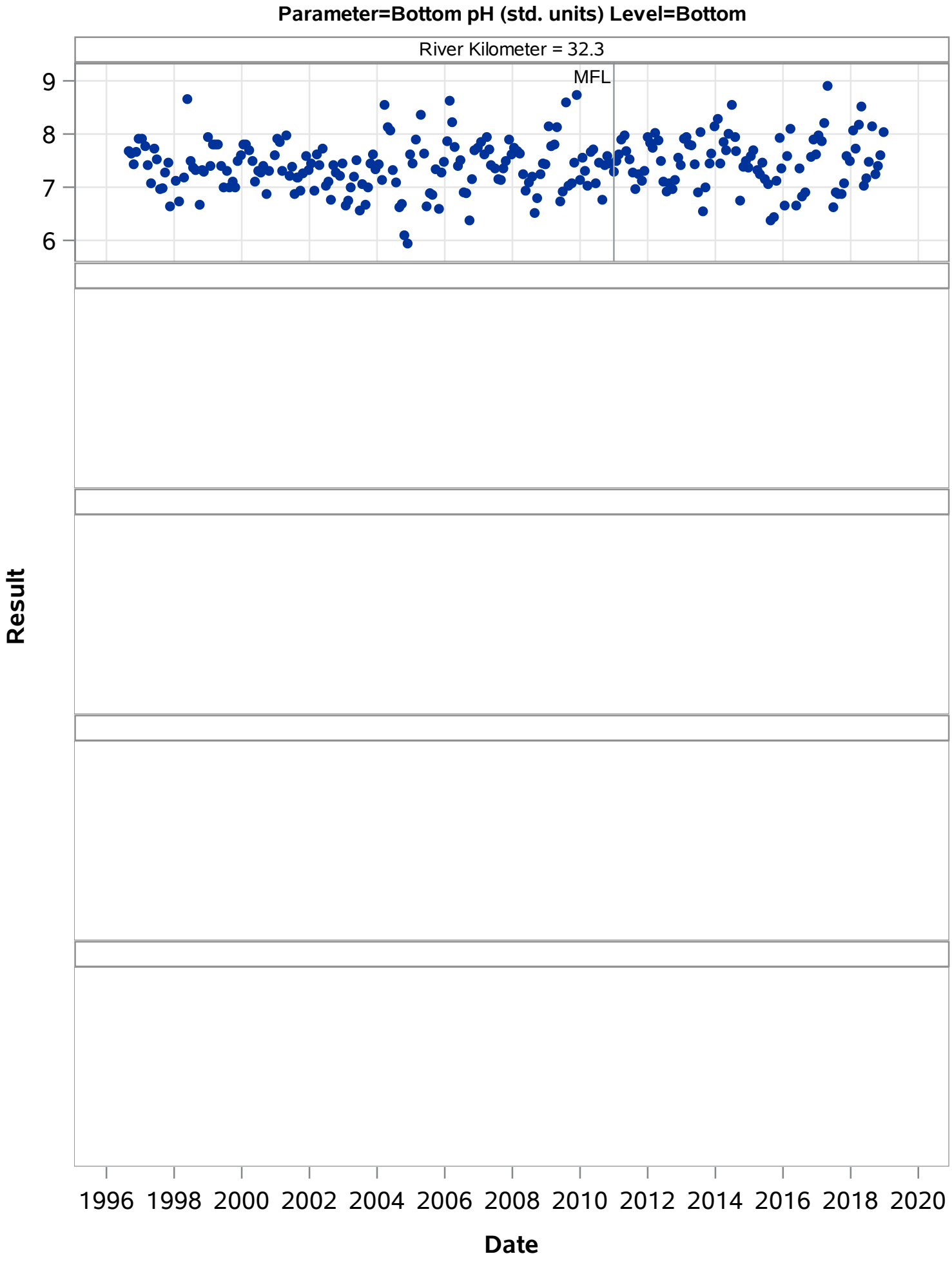

Parameter=50% light depth (m) Level=Column
River Kilometer = 23.6
MFL
1.25
1.00
0.75
0.50
0.25
River Kilometer = 24.7
MFL
0.8
0.6
0.4
0.2
River Kilometer = 25.9
MFL
0.7
0.5
0.3
0.1
River Kilometer = 29.5
MFL
1.25
1.00
0.75
0.50
0.25
River Kilometer = 30.7
MFL
1.5
1.0
0.5
0.0
Result
1996
2000
2004
2008
2012
2016
2020
Date

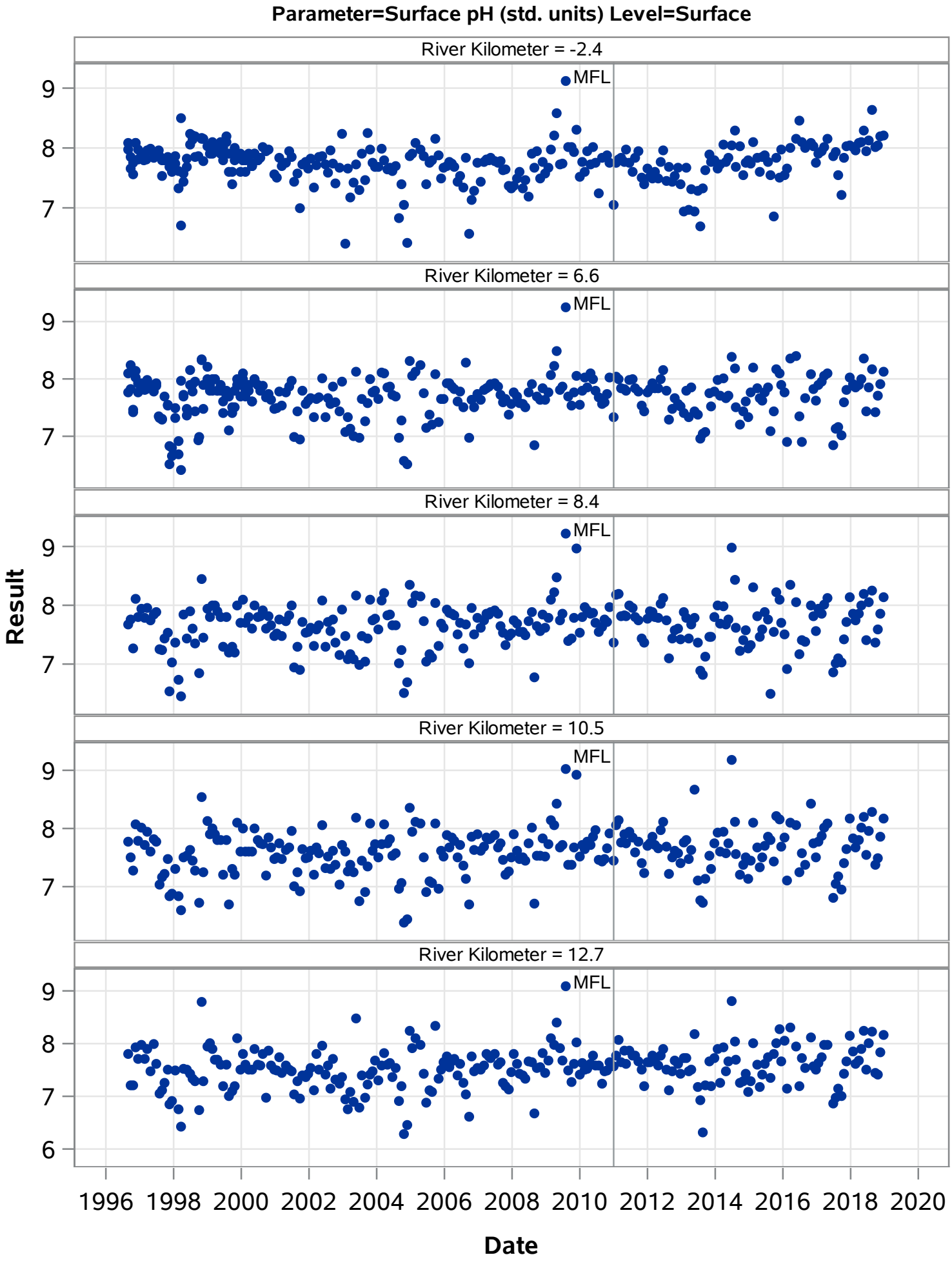

Parameter=50% light depth (m) Level=Column
River Kilometer = 32.3
MFL
2.5
2.0
1.5
1.0
0.5
0.0
Result
1996
2000
2004
2008
2012
2016
2020
Date

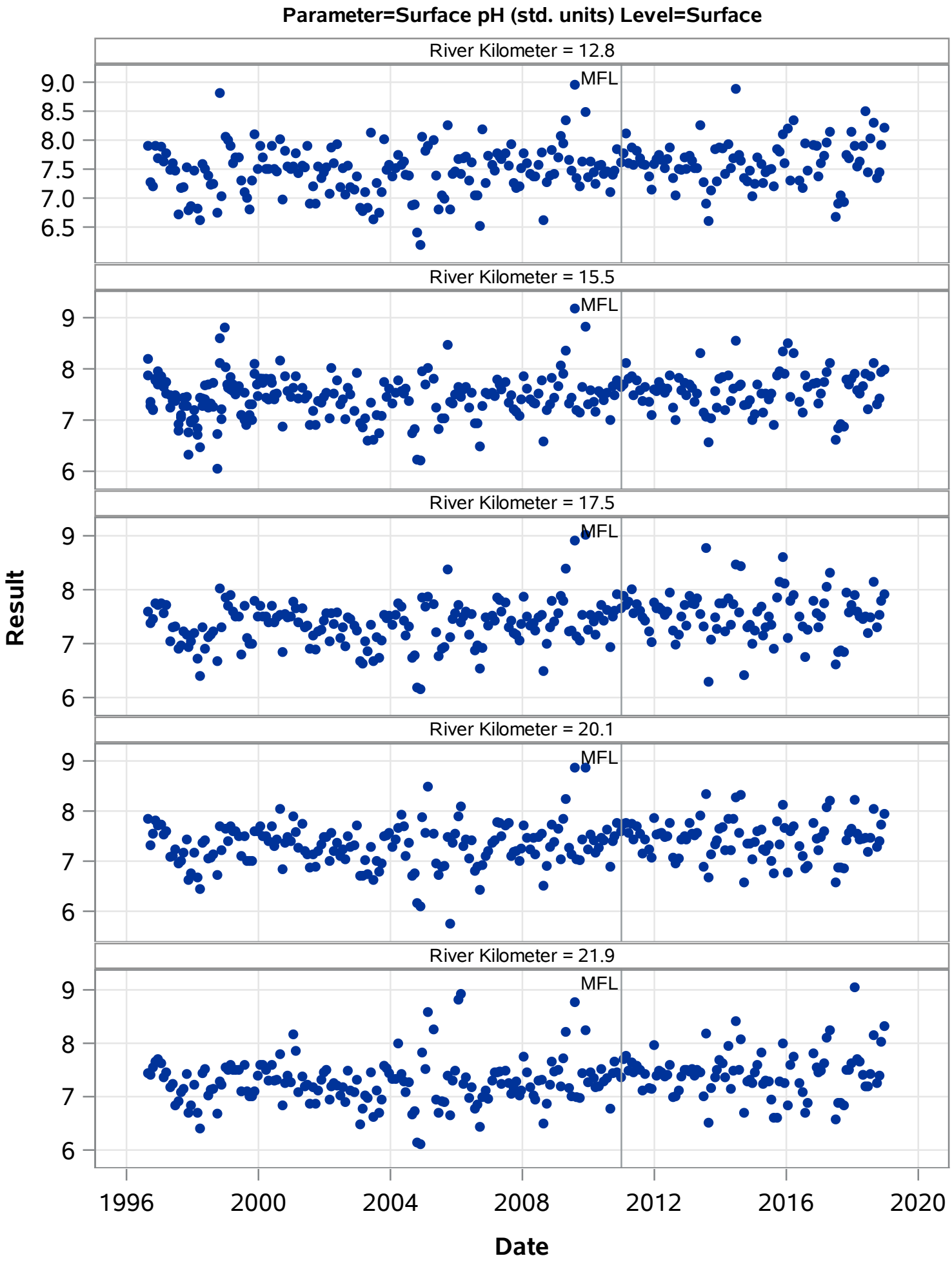

Parameter=Bottom pH (std. units) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

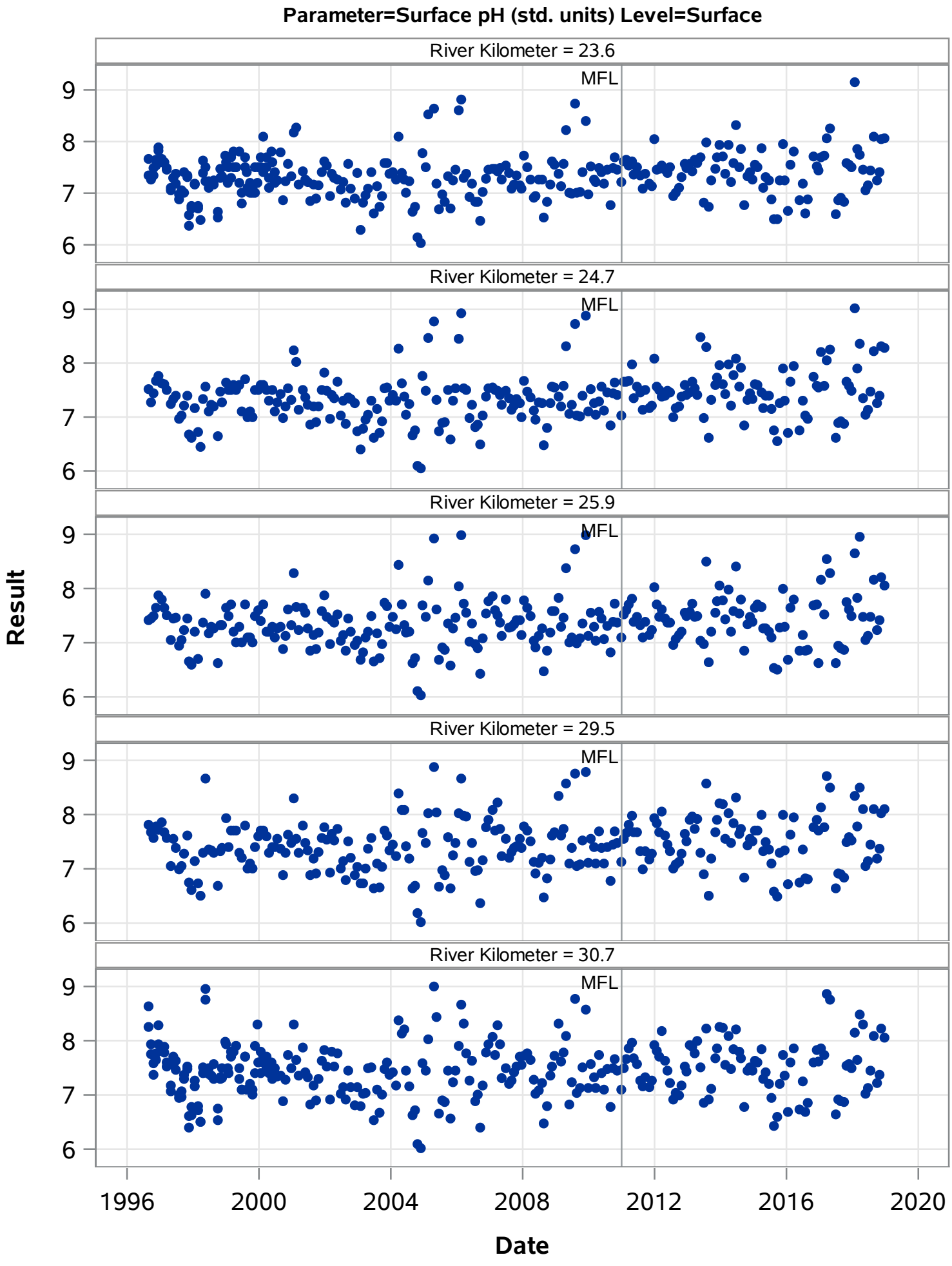

Parameter=Bottom pH (std. units) Level=Bottom
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

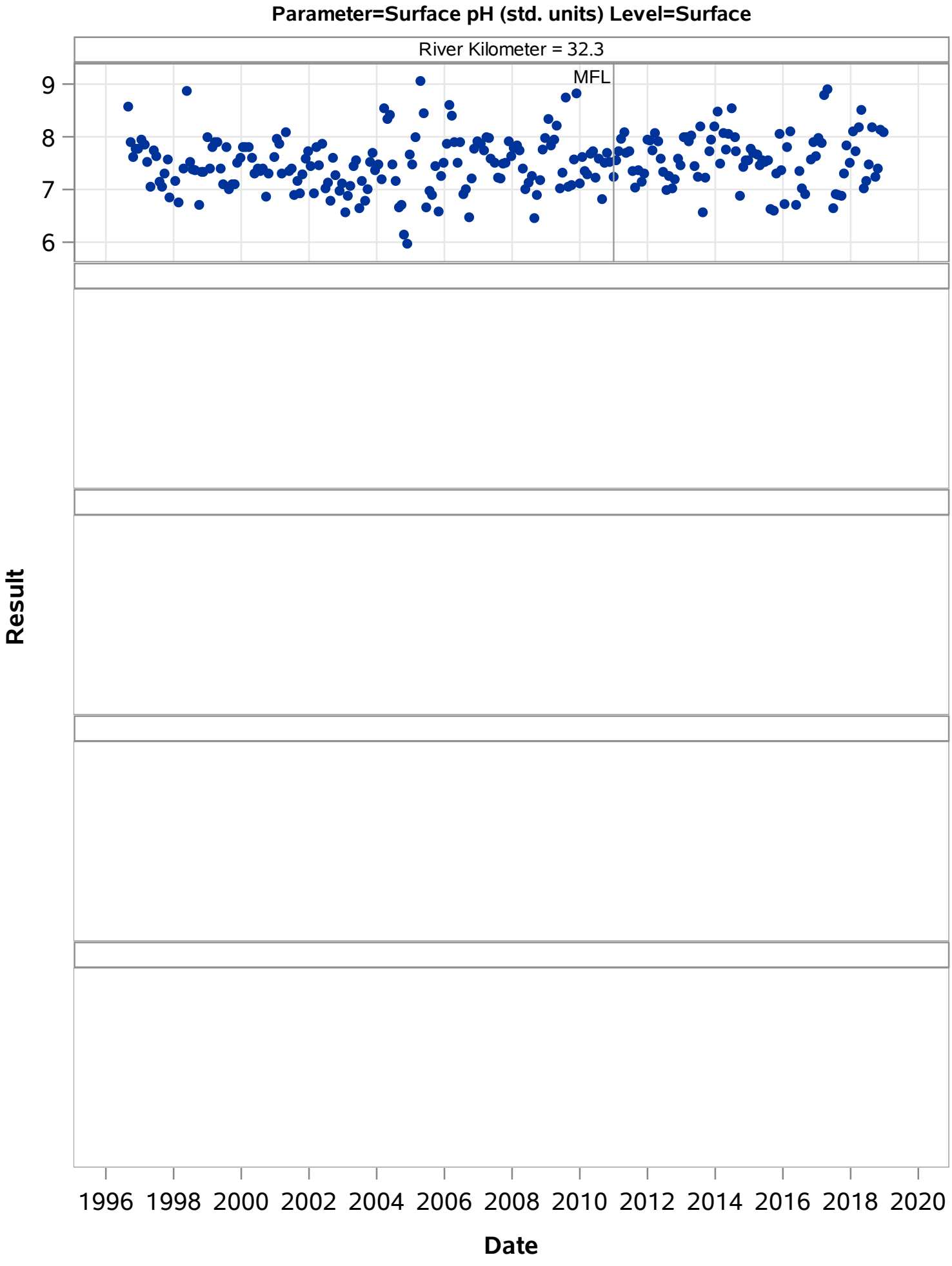

Parameter=Bottom pH (std. units) Level=Bottom
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

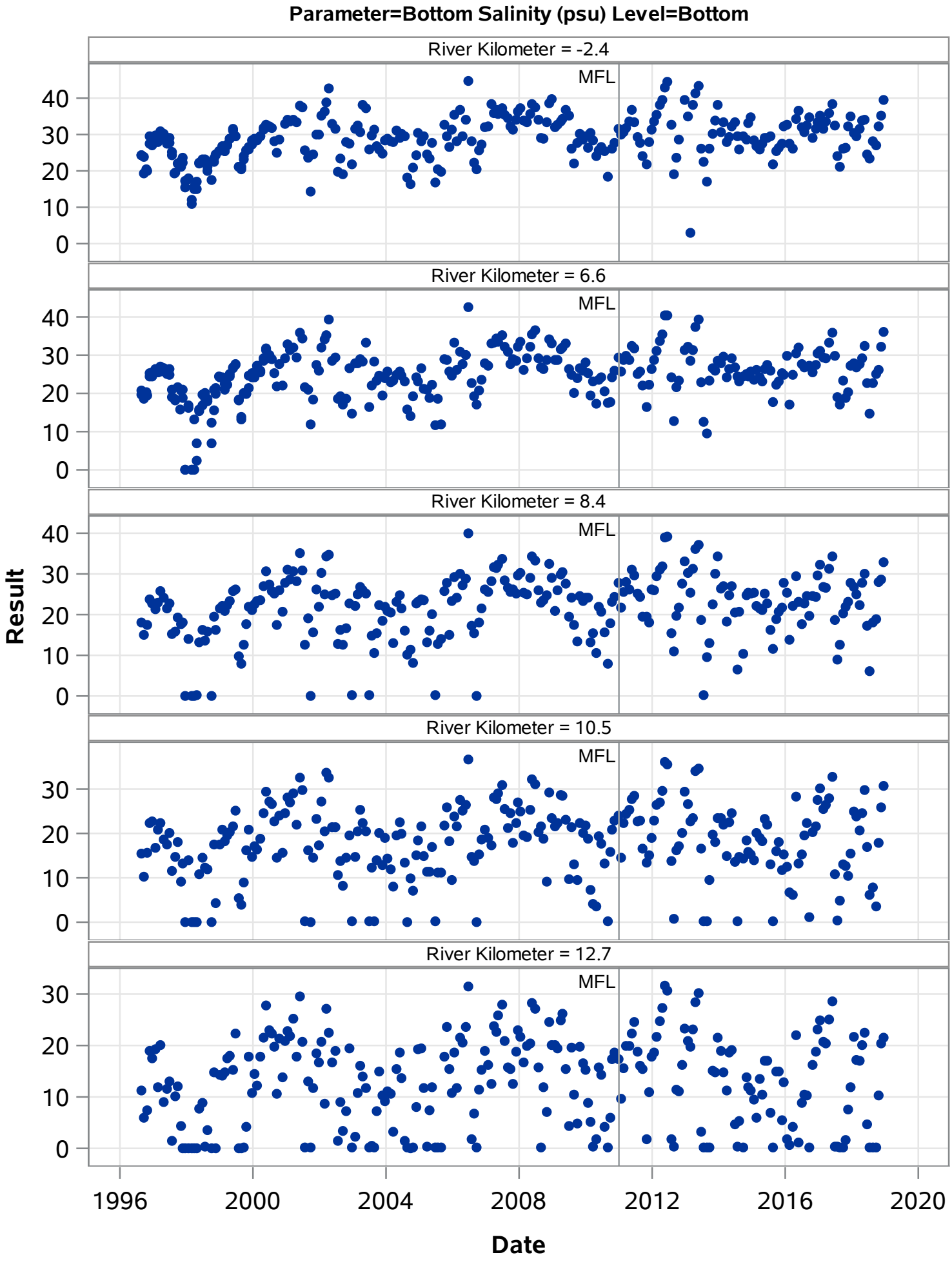

Parameter=Bottom pH (std. units) Level=Bottom
River Kilometer = 32.3
MFL
9
8
7
6
Result
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Date

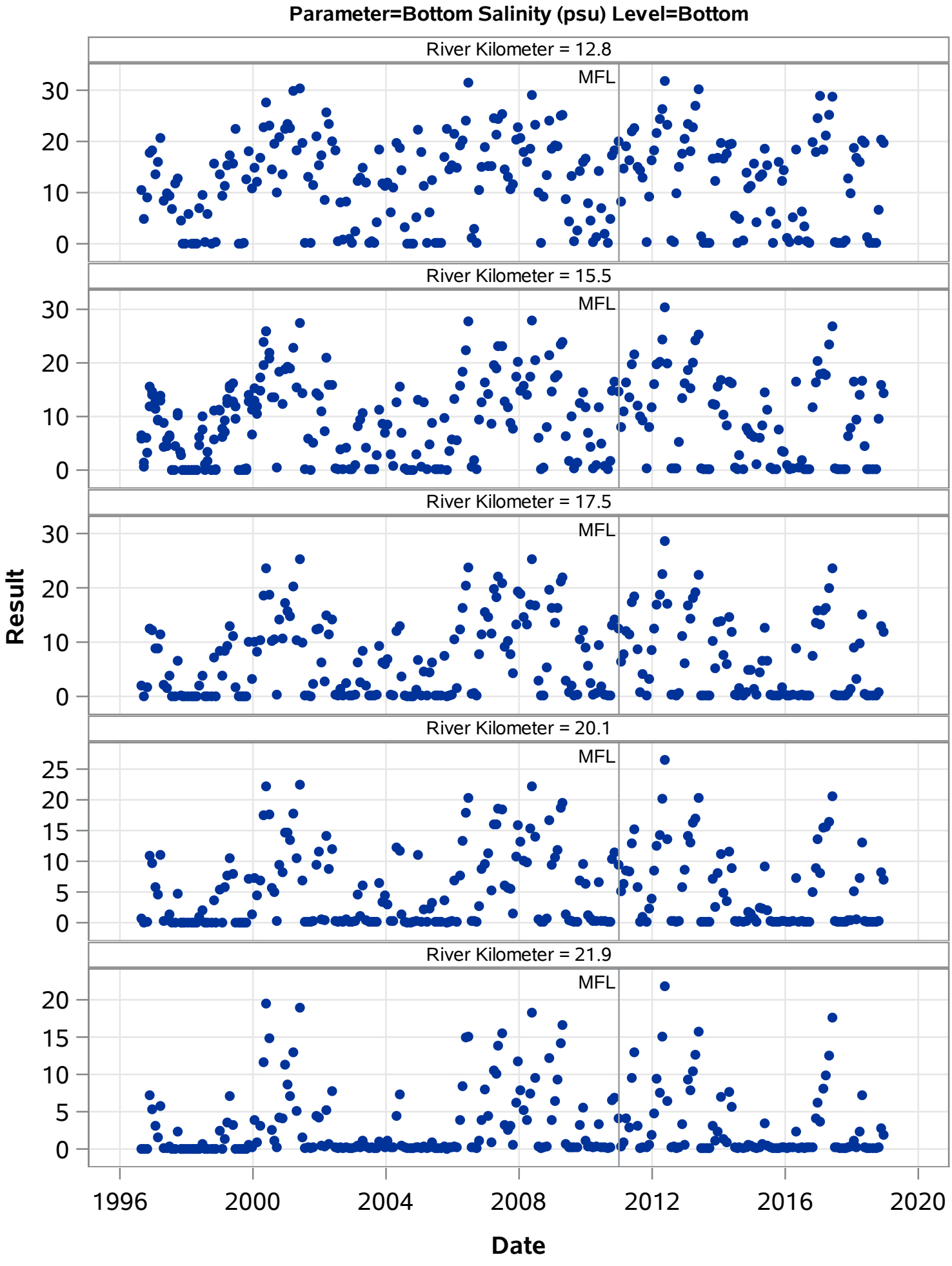

Parameter=Surface pH (std. units) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
9
8
7
6
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020

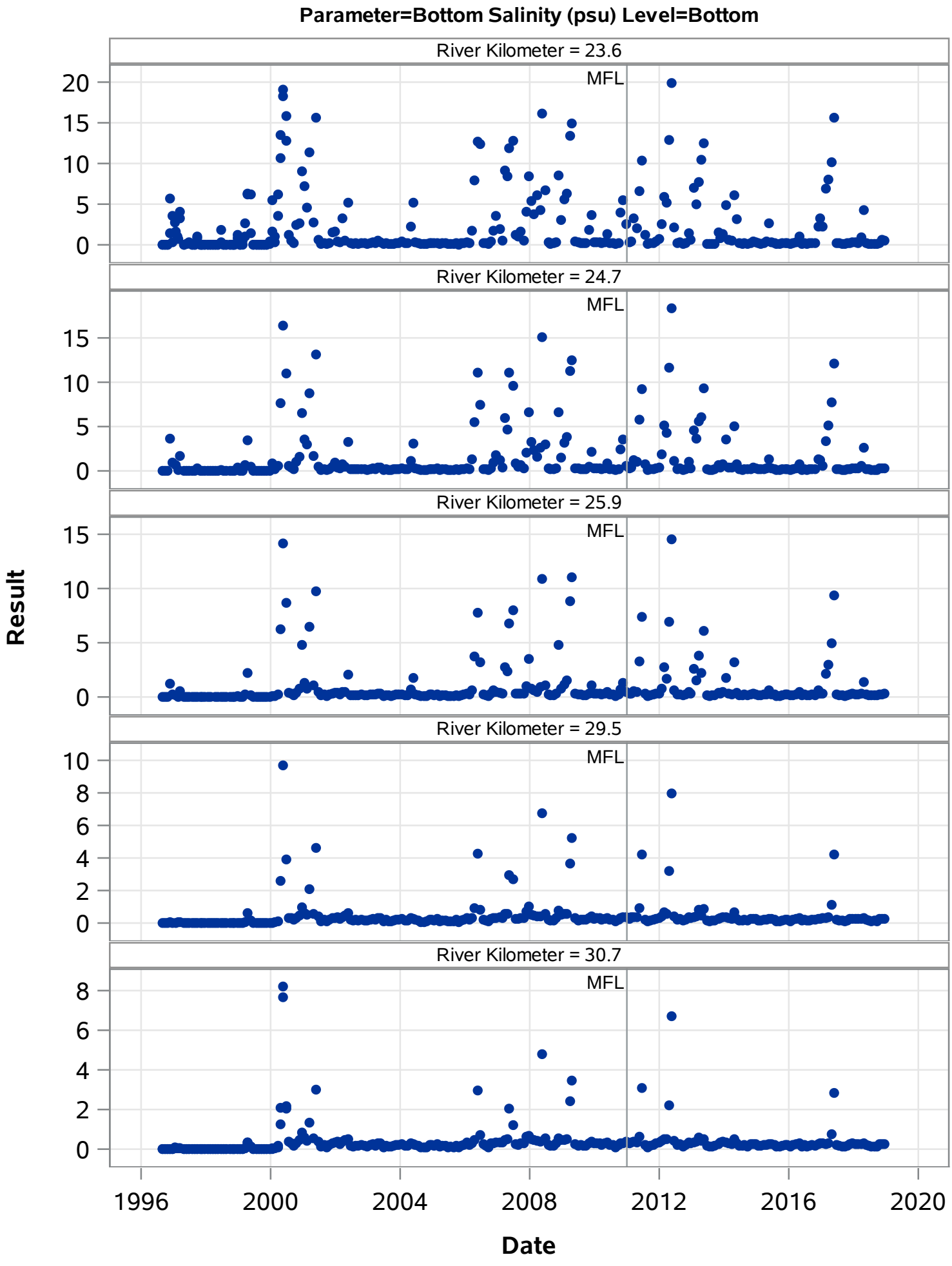

Parameter=Surface pH (std. units) Level=Surface
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

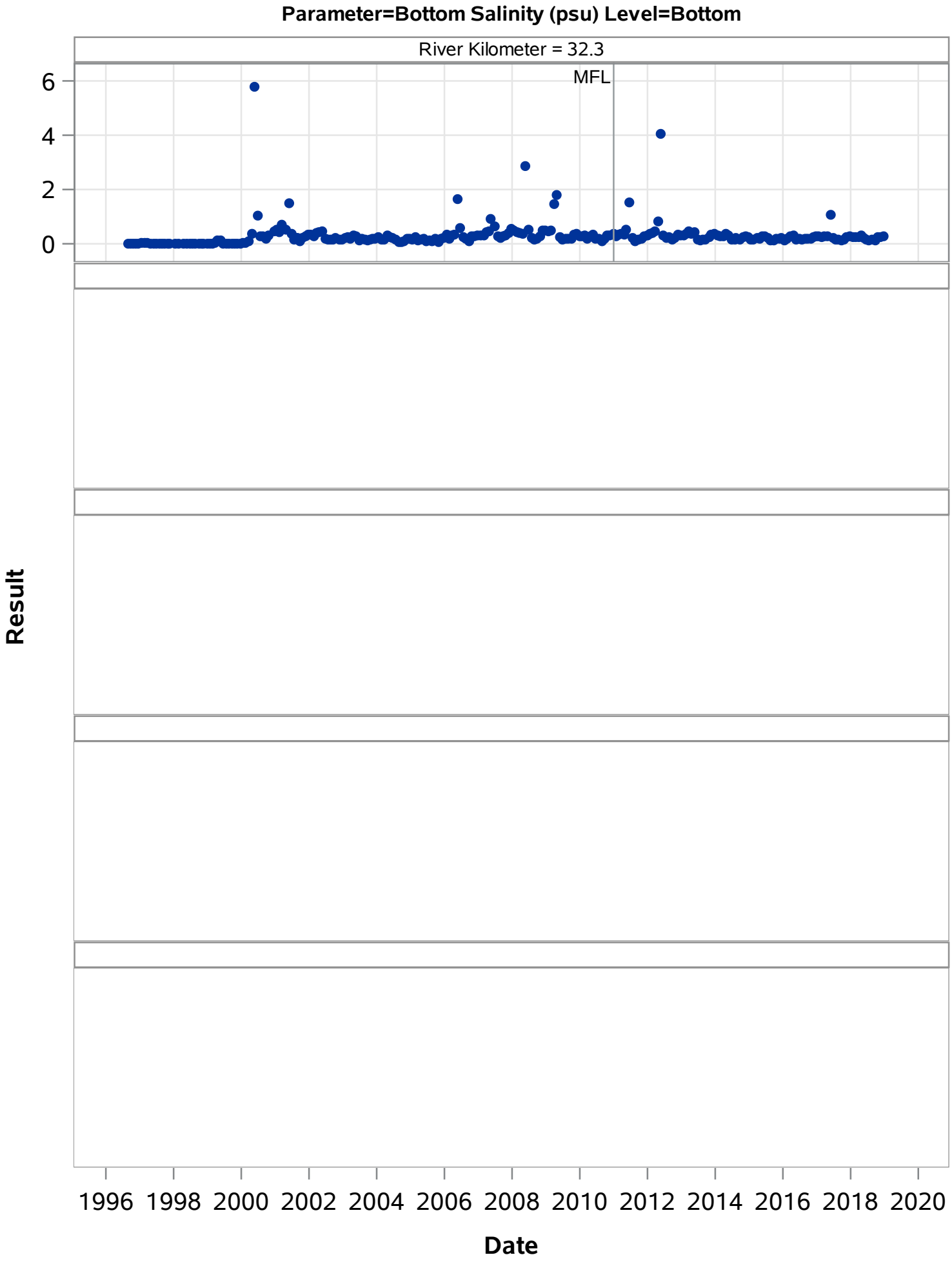

Parameter=Surface pH (std. units) Level=Surface
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
9
8
7
6
1996
2000
2004
2008
2012
2016
2020
Date

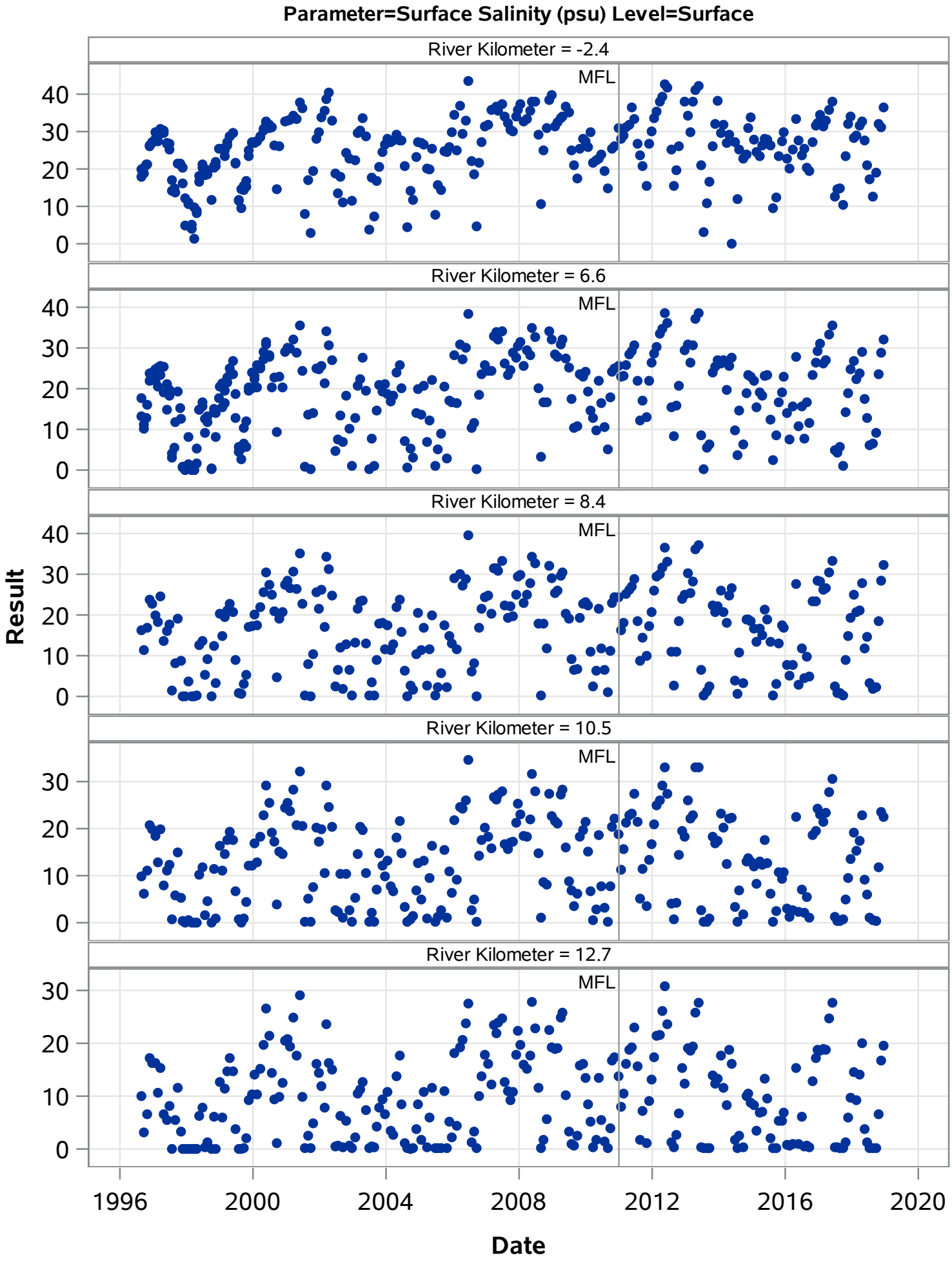

Parameter=Surface pH (std. units) Level=Surface
River Kilometer = 32.3
MFL
9
8
7
6
Result
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Date

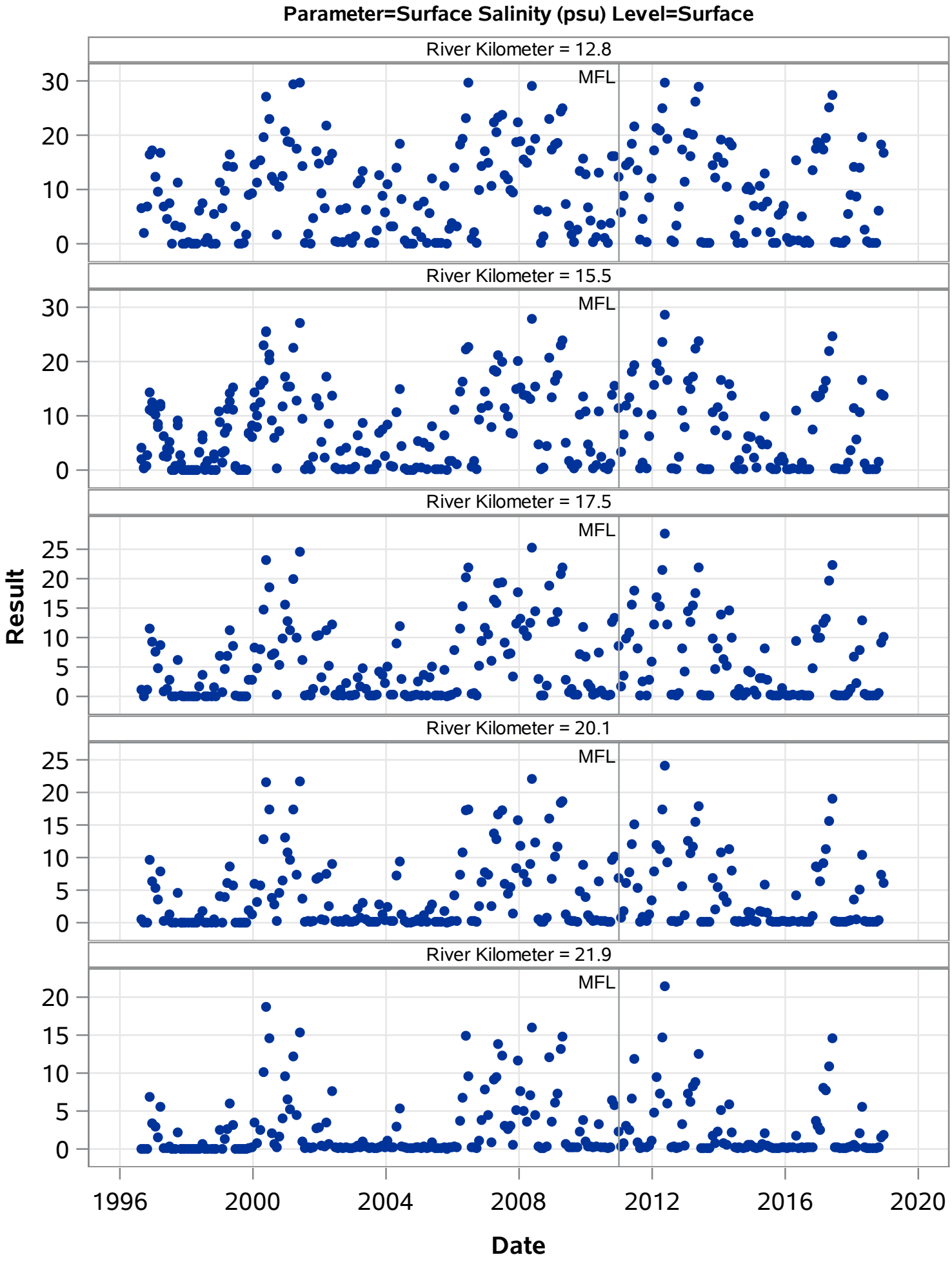

Parameter=Bottom Salinity (psu) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
0
10
20
30
40
1996
2000
2004
2008
2012
2016
2020

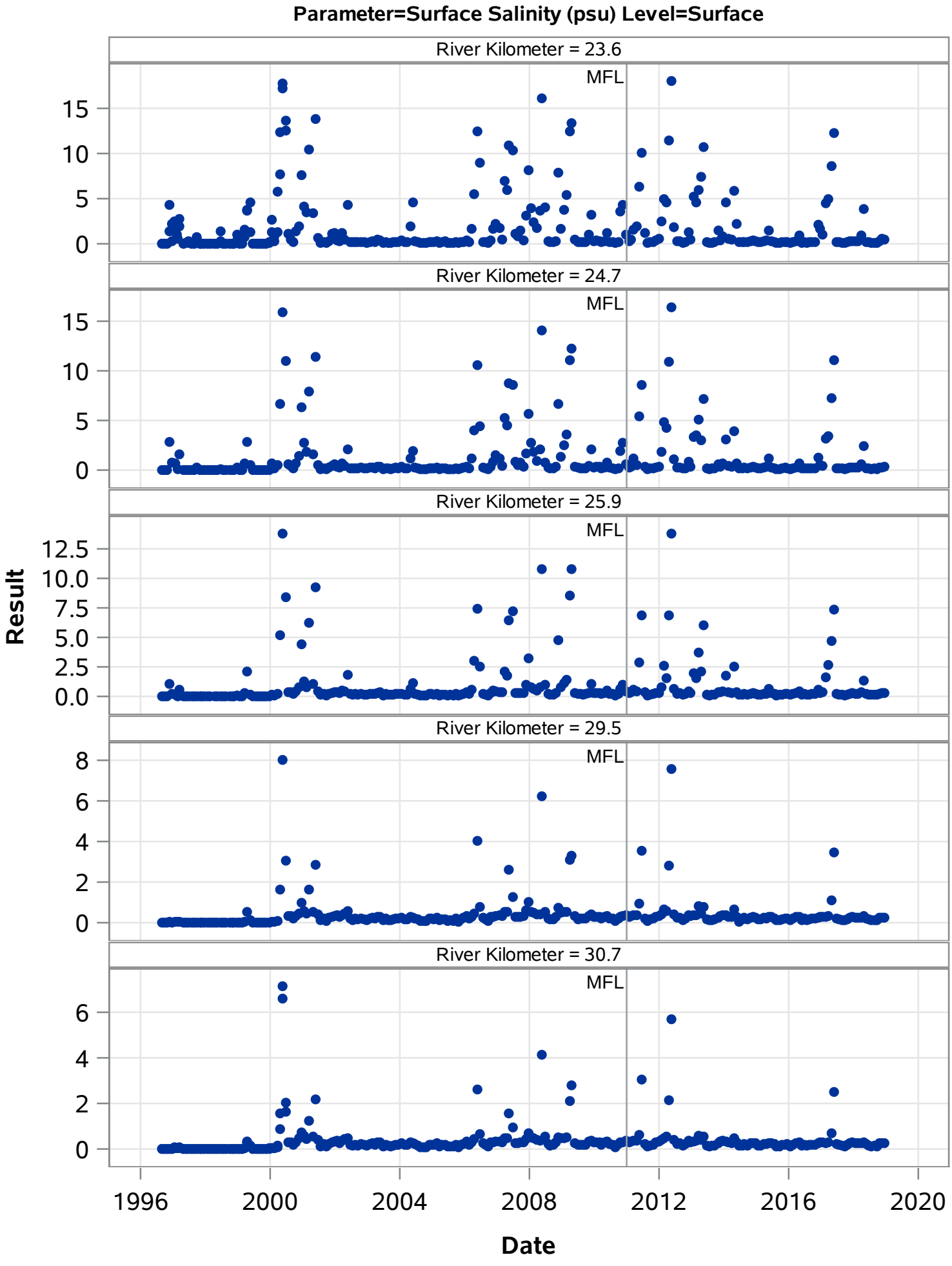

Parameter=Bottom Salinity (psu) Level=Bottom
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

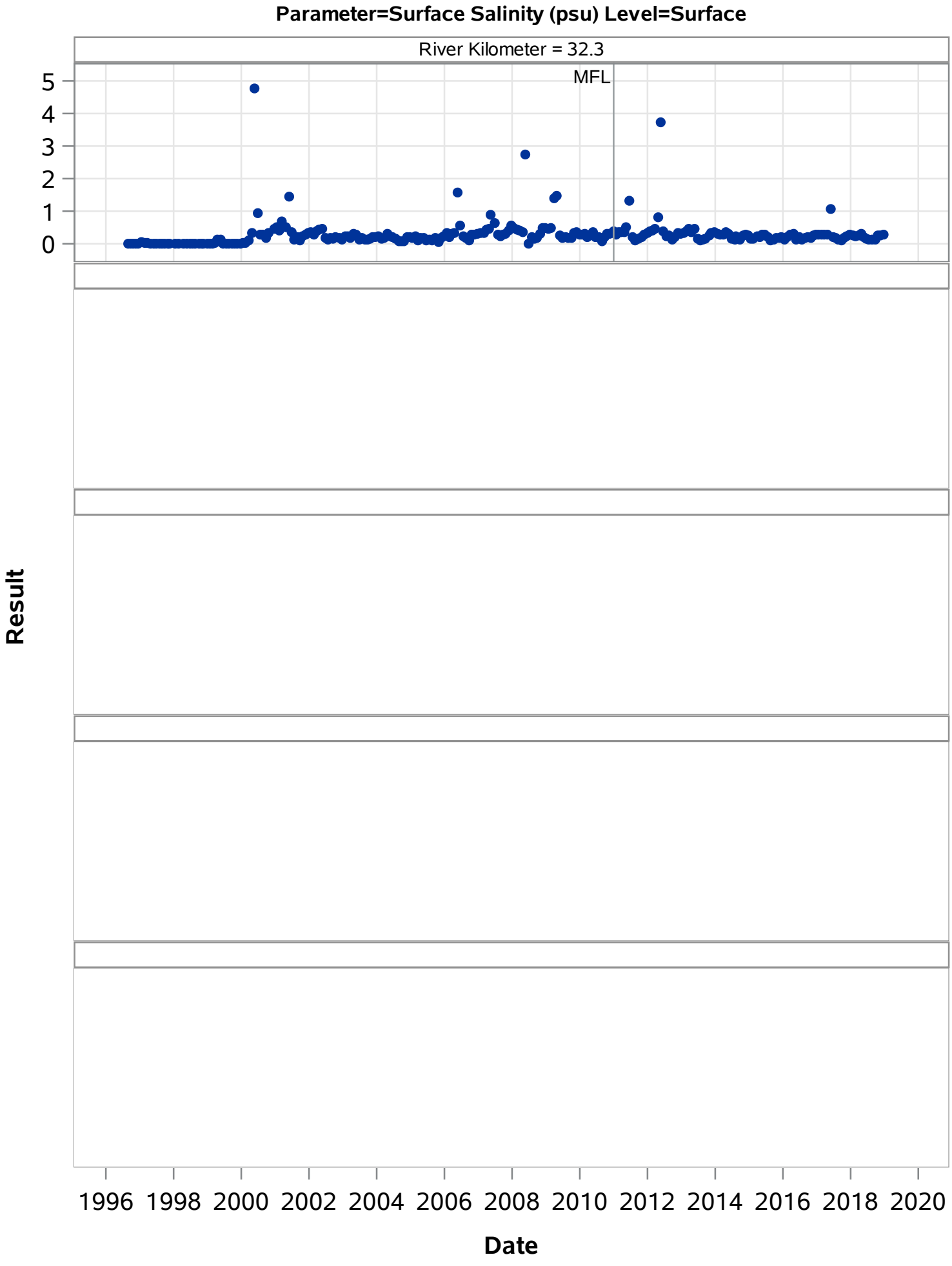

Parameter=Bottom Salinity (psu) Level=Bottom
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

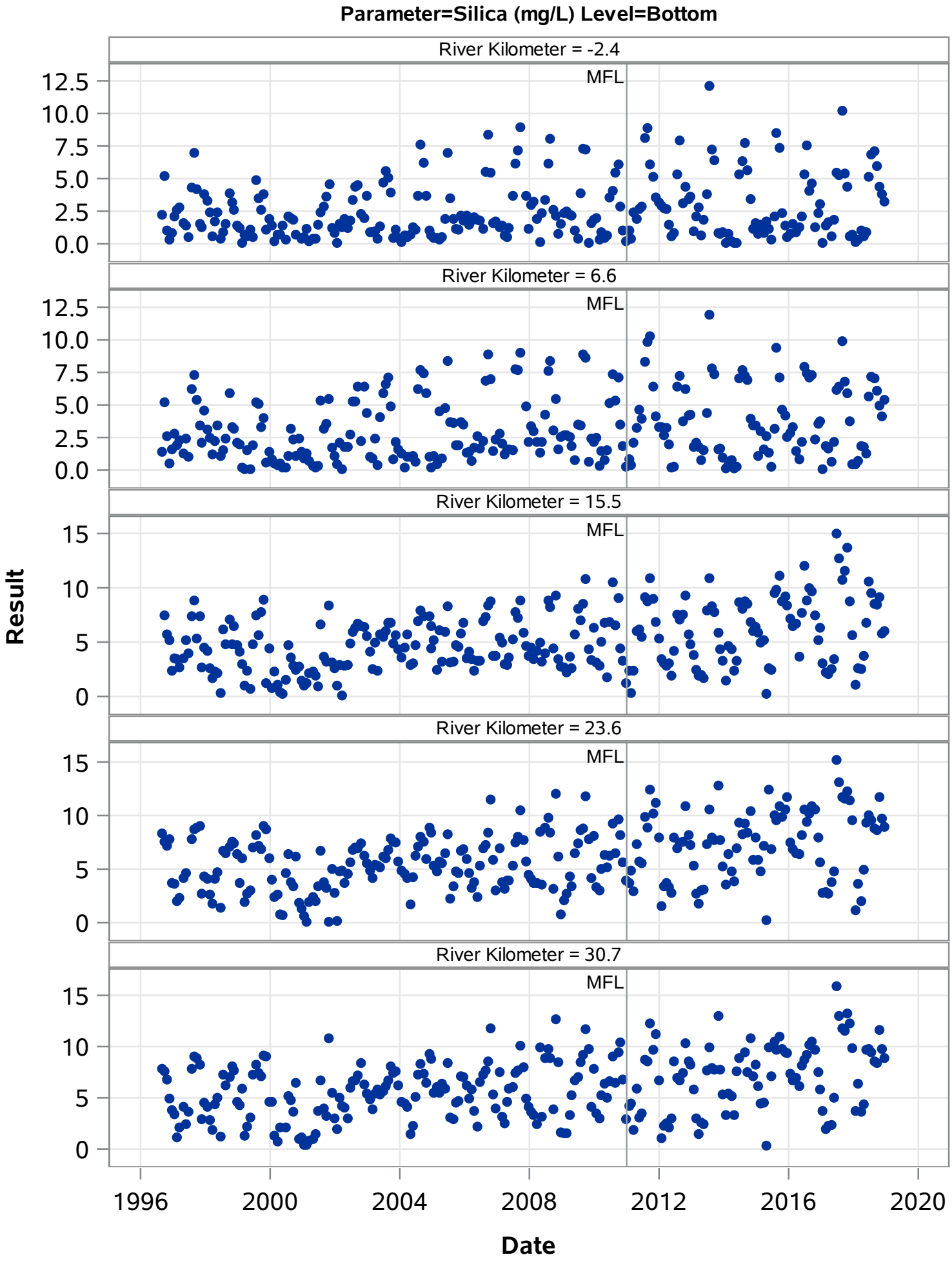

Parameter=Bottom Salinity (psu) Level=Bottom
River Kilometer = 32.3
MFL
6
4
2
0
Result
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Date

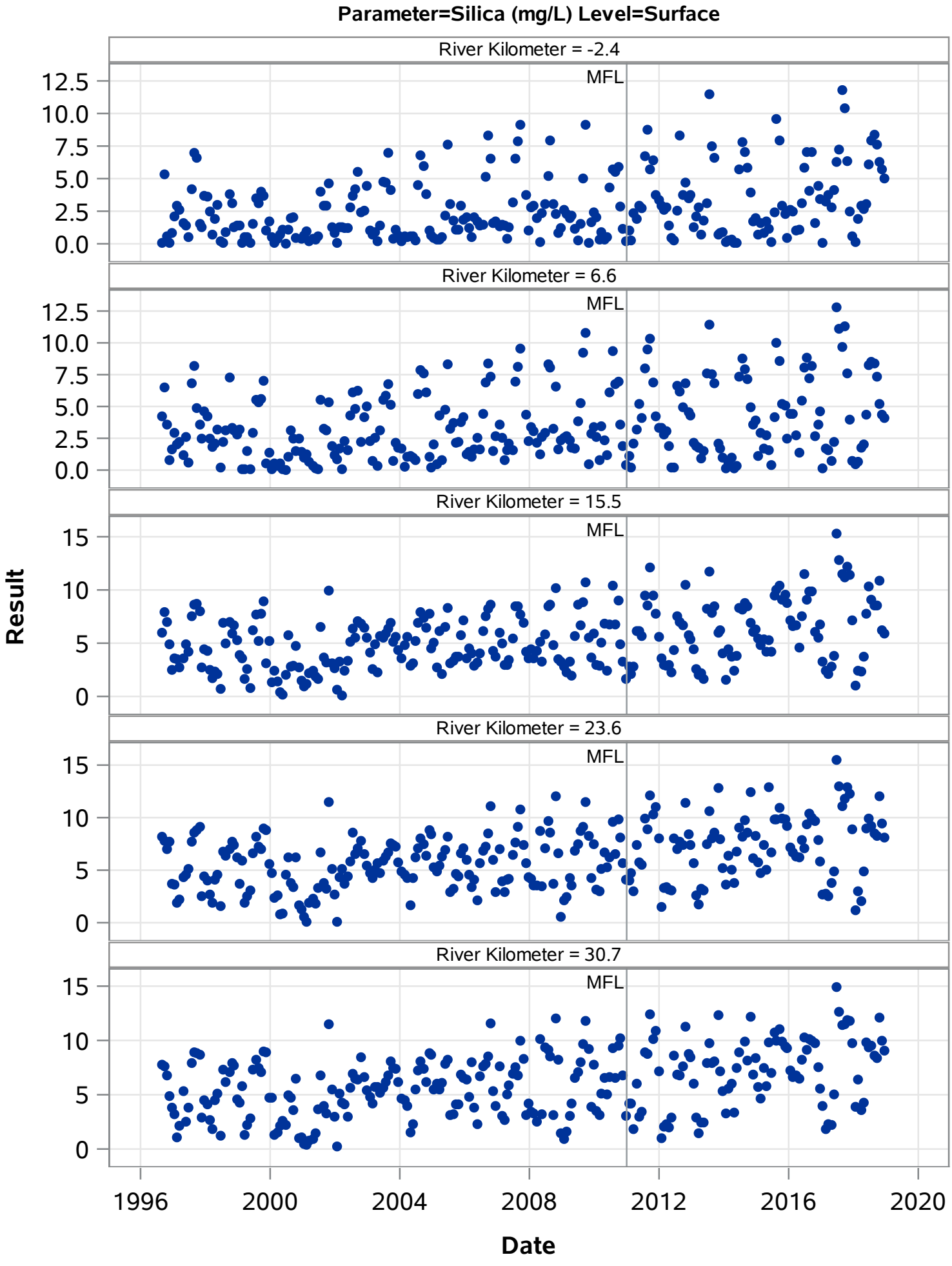

Parameter=Surface Salinity (psu) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
Date
0
10
20
30
40
1996
2000
2004
2008
2012
2016
2020

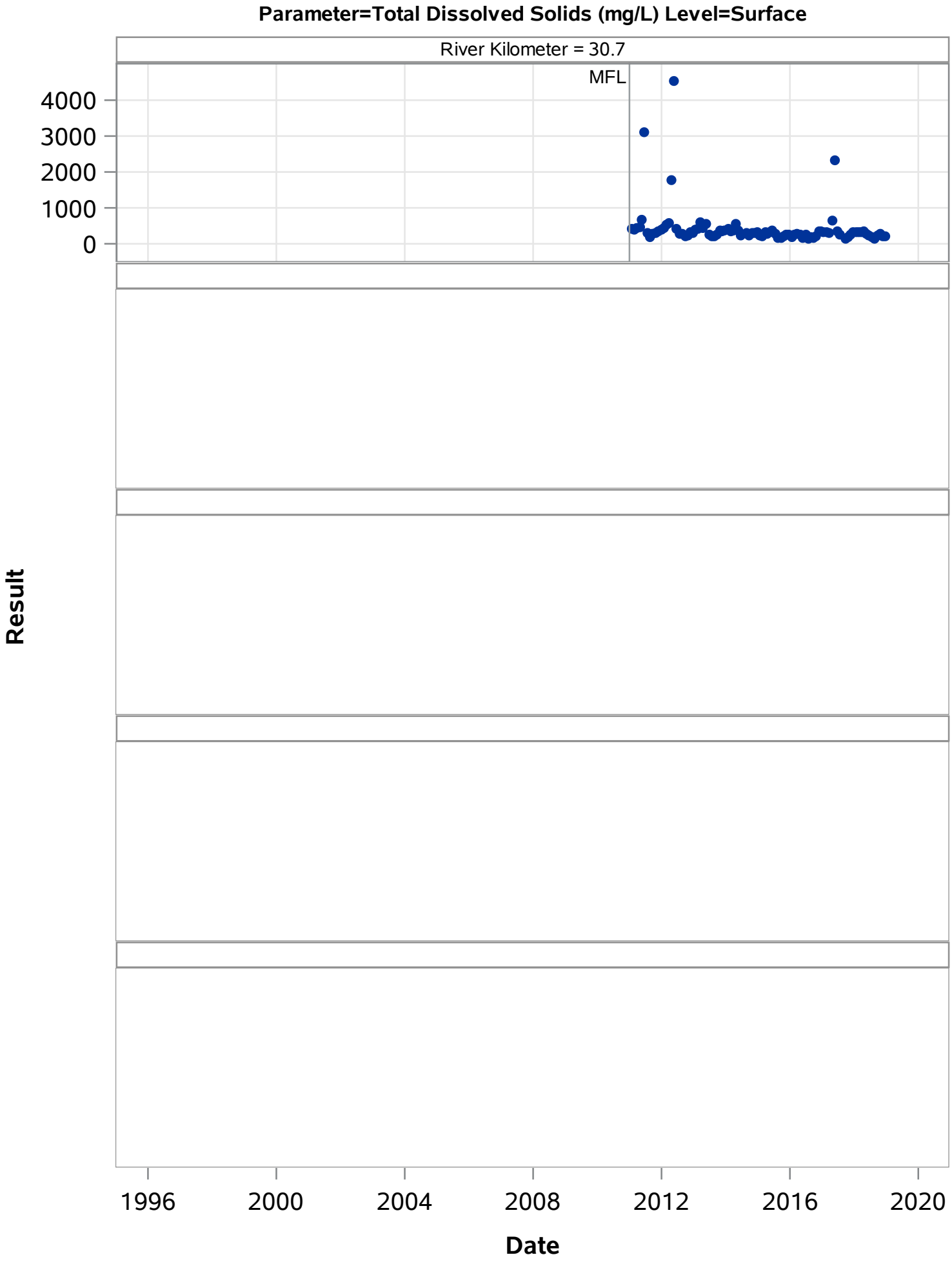

Parameter=Surface Salinity (psu) Level=Surface
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

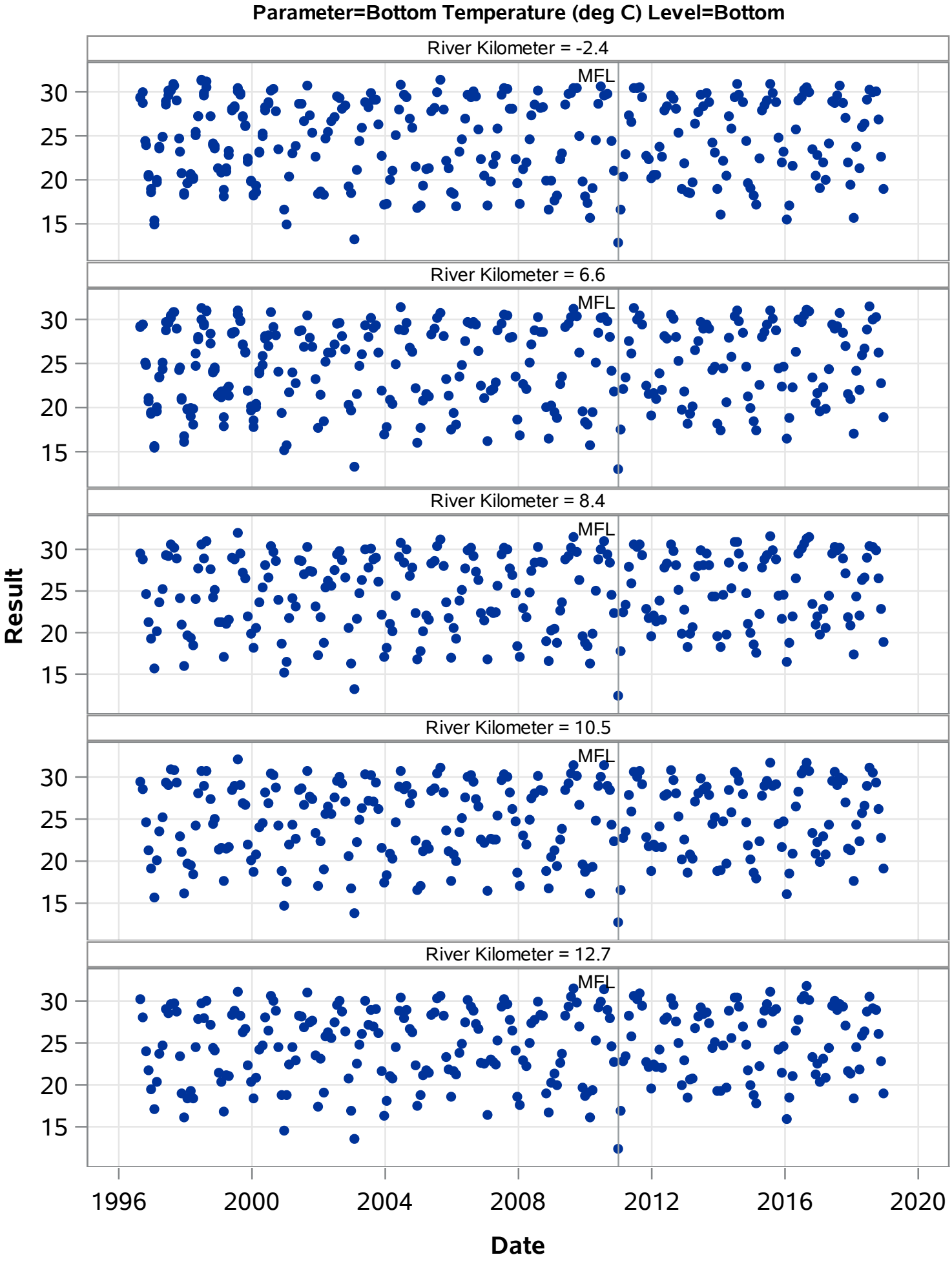

Parameter=Surface Salinity (psu) Level=Surface
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

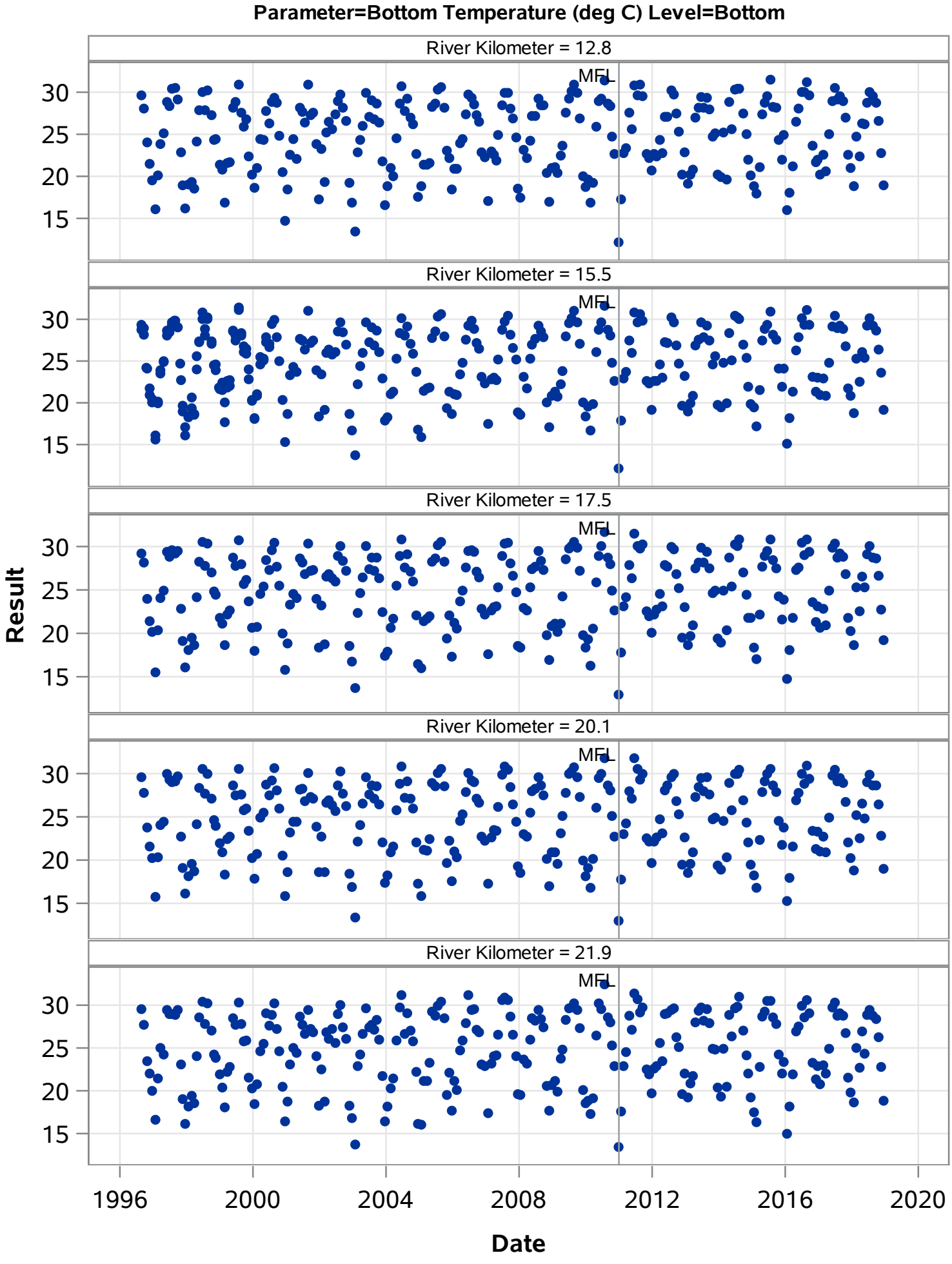

Parameter=Surface Salinity (psu) Level=Surface
River Kilometer = 32.3
MFL
5
4
3
2
1
0
Result
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
Date

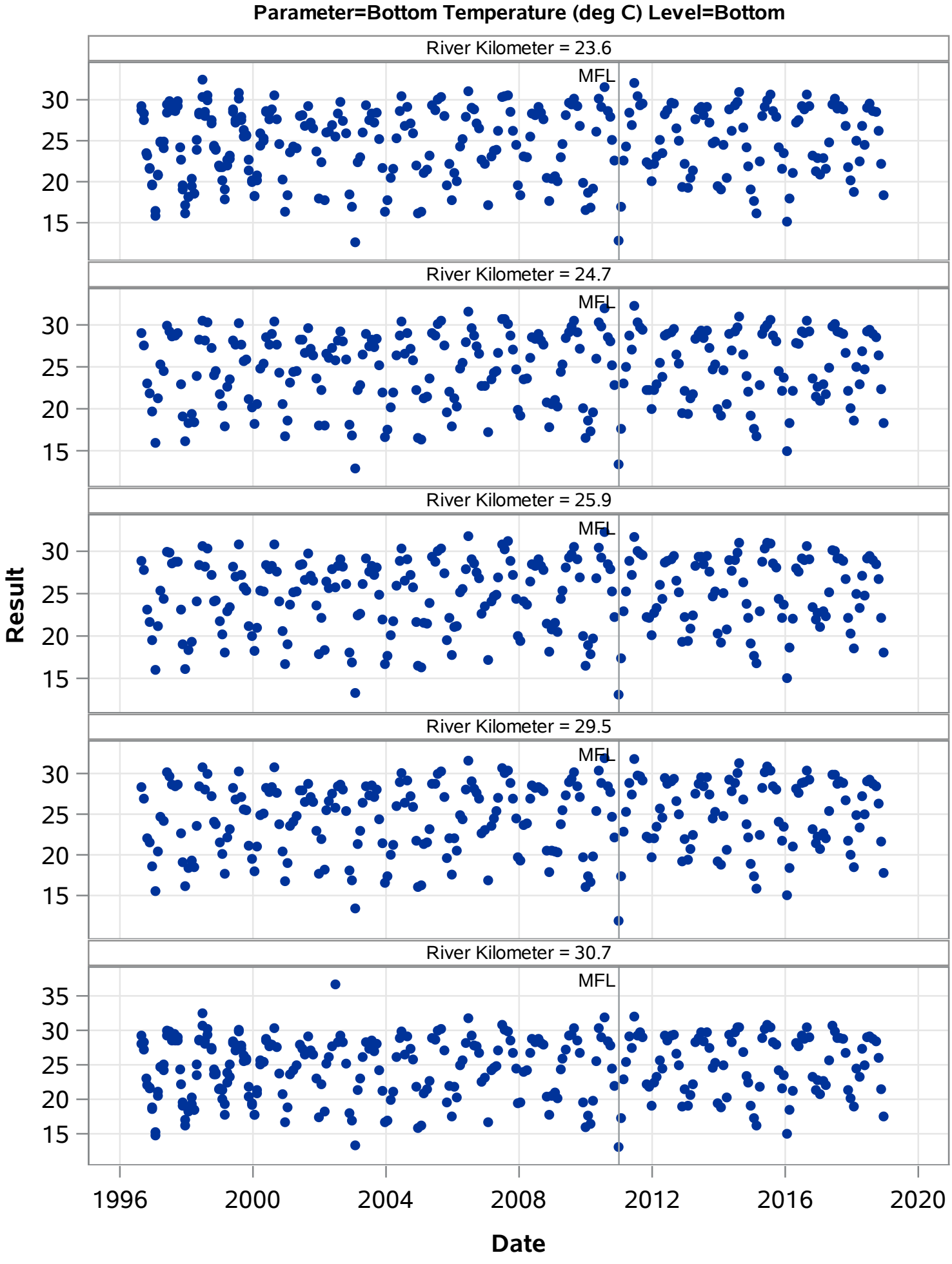

Parameter=Silica (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

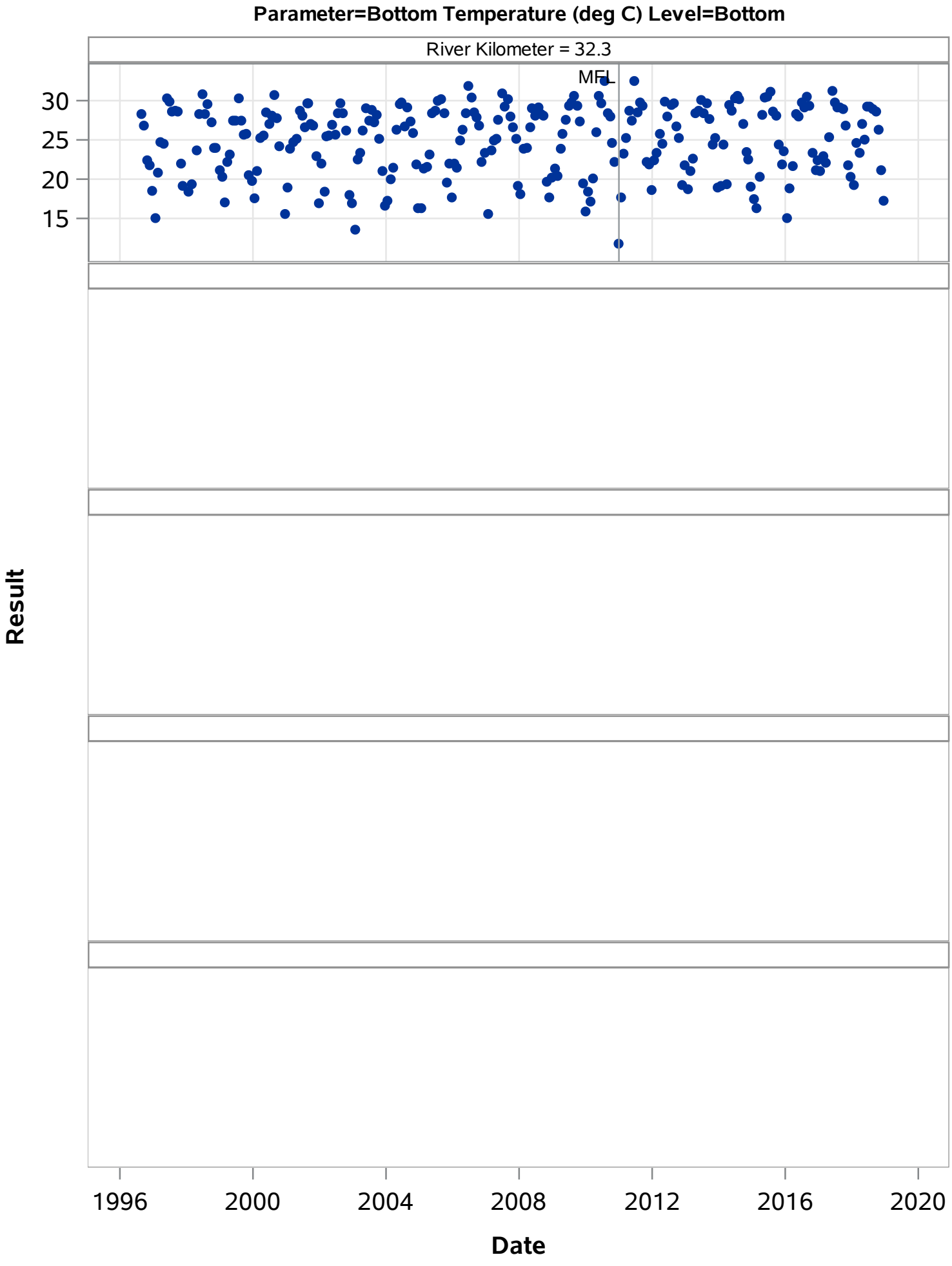

Parameter=Silica (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

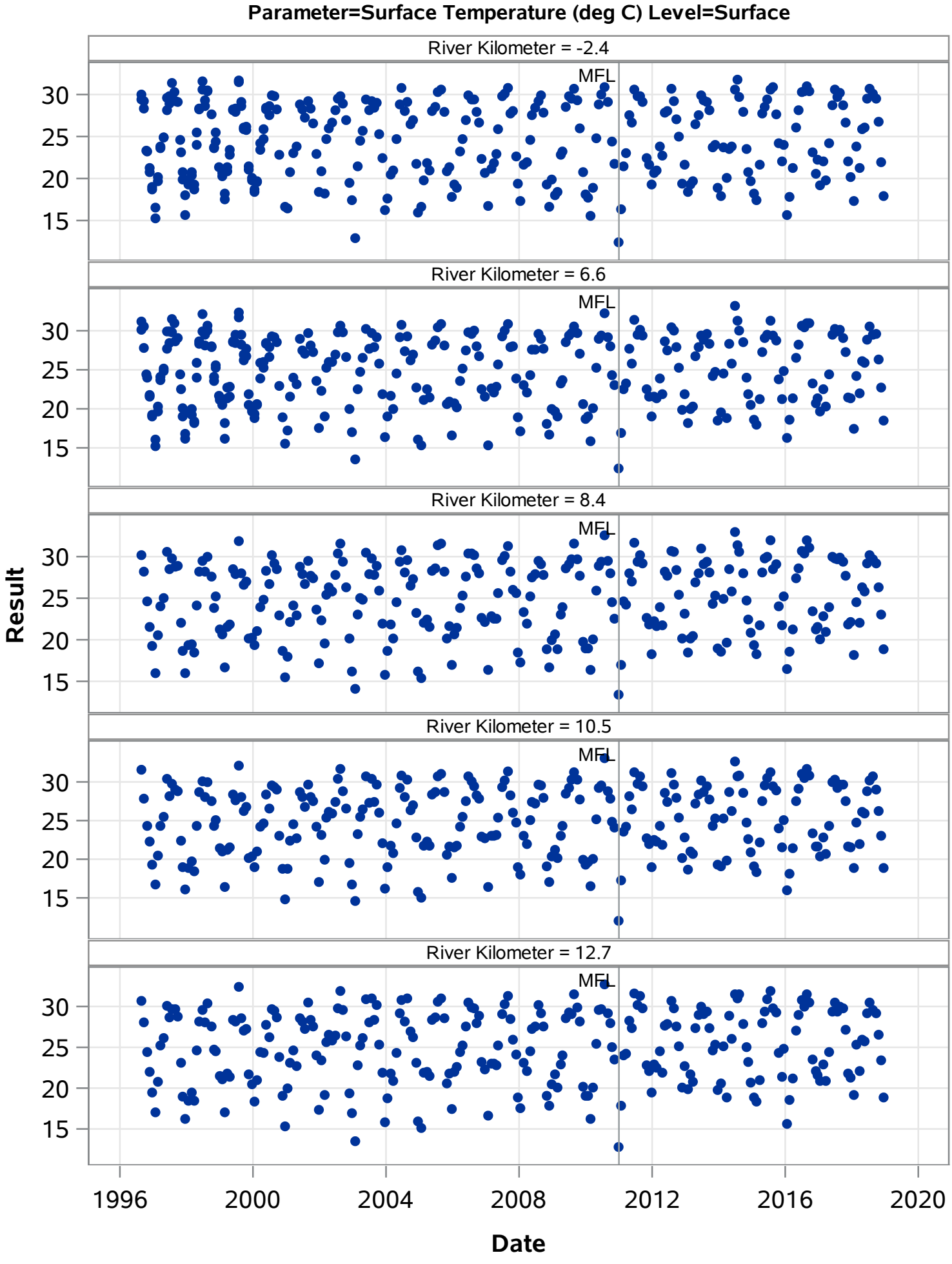

Parameter=Total Dissolved Solids (mg/L) Level=Surface
River Kilometer = 30.7
MFL
4000
3000
2000
1000
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

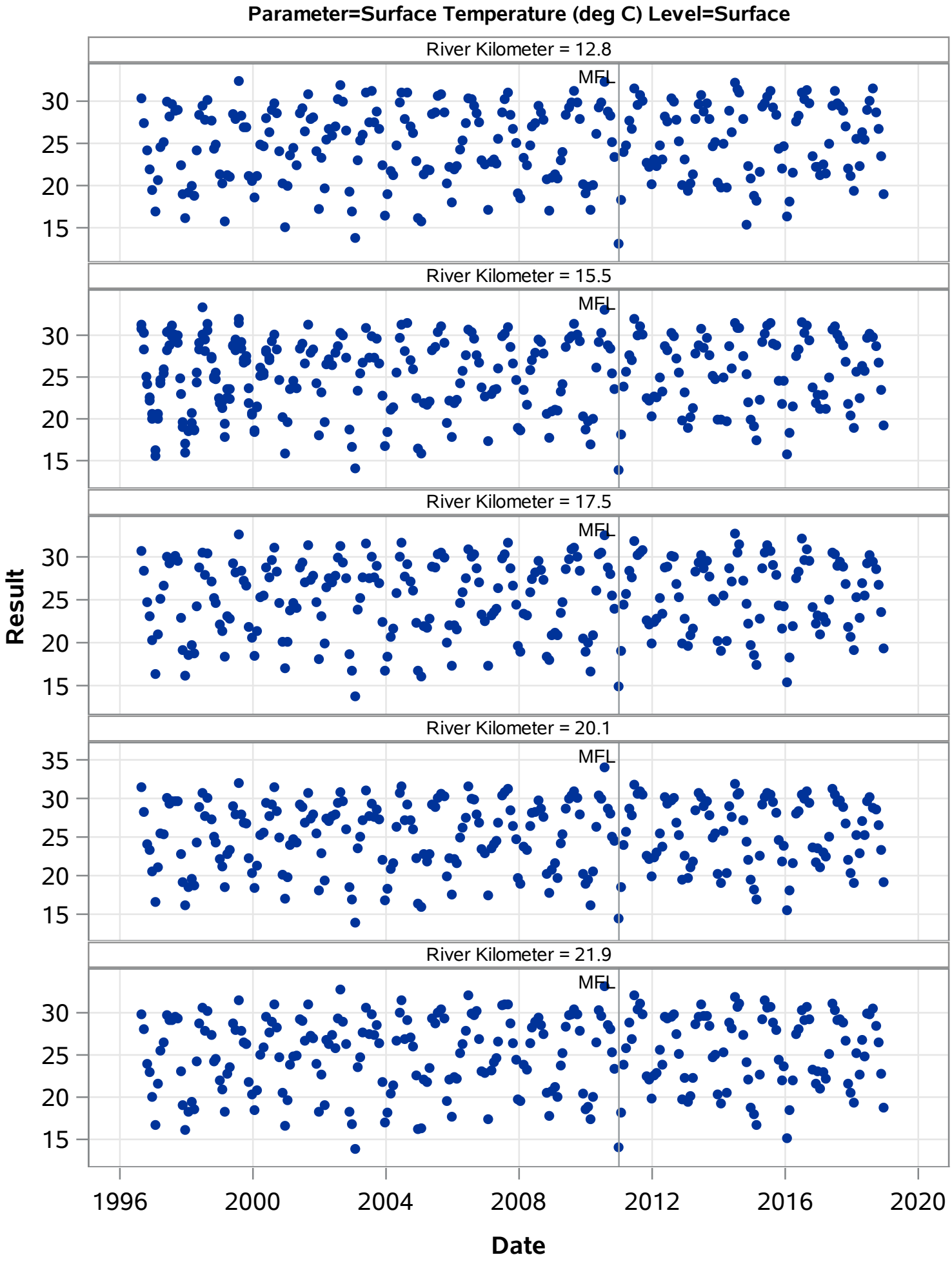

Parameter=Bottom Temperature (deg C) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
30
25
20
15
1996
2000
2004
2008
2012
2016
2020
Date

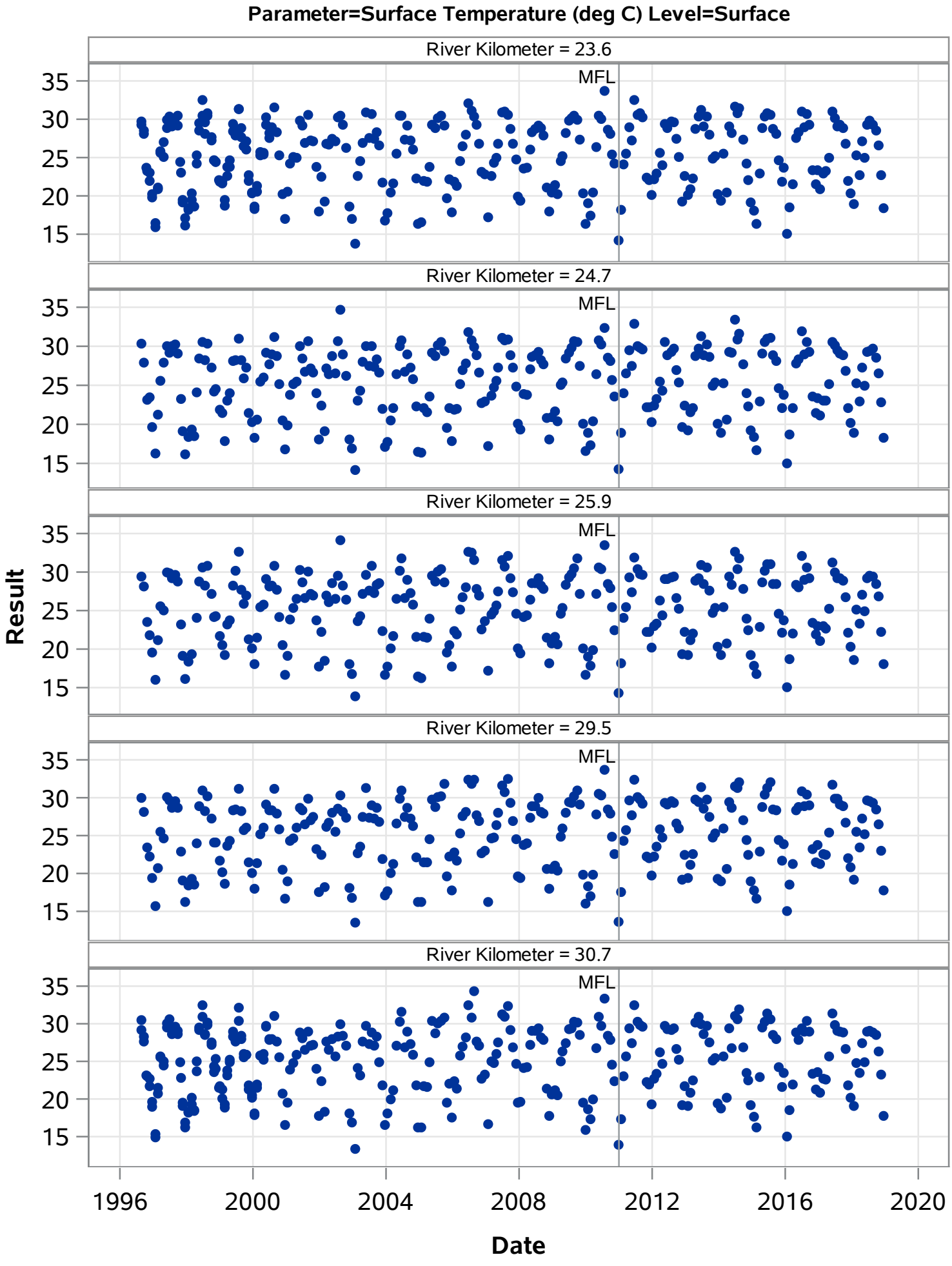

Parameter=Bottom Temperature (deg C) Level=Bottom
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
30
25
20
15
1996
2000
2004
2008
2012
2016
2020
Date

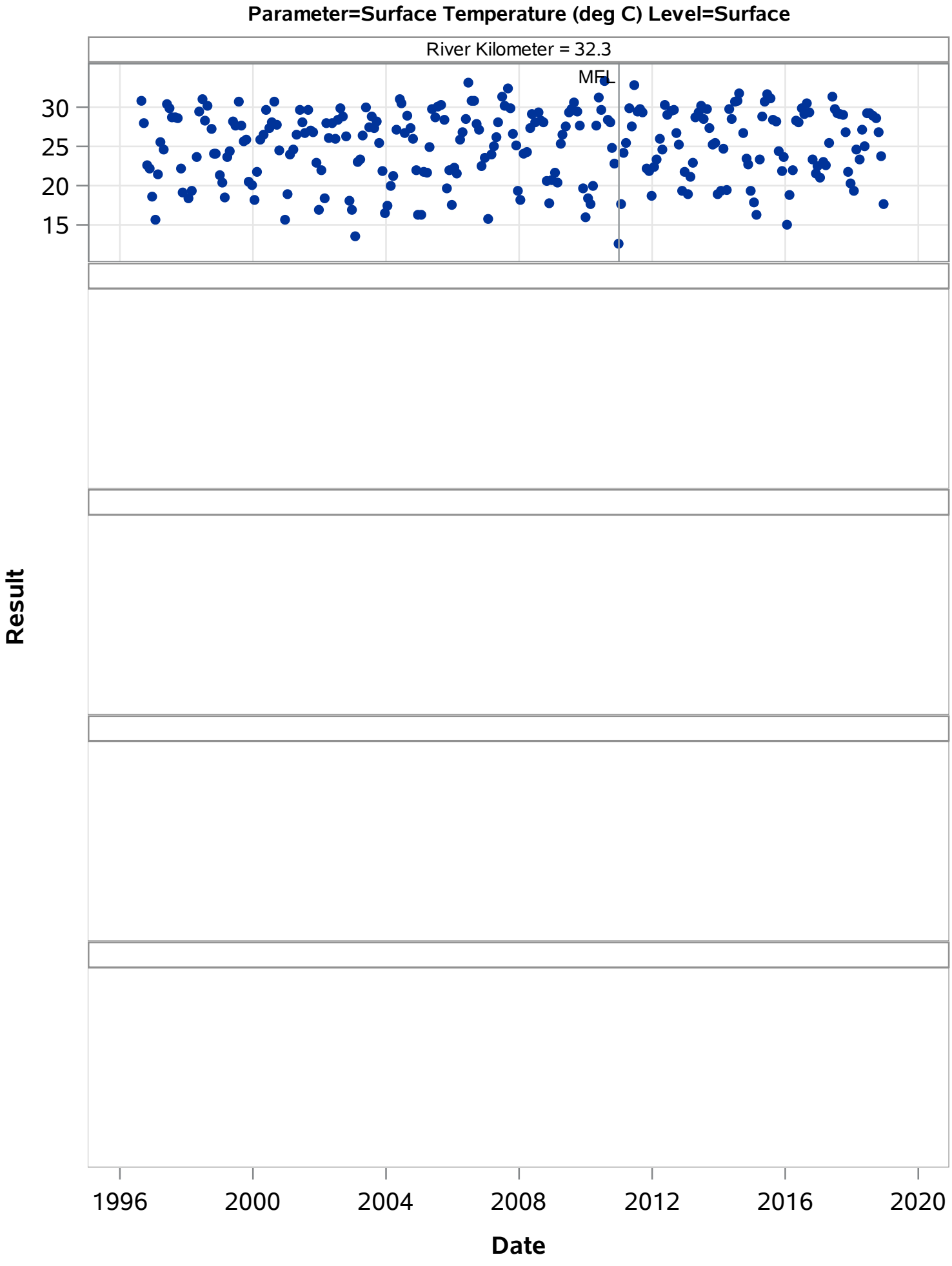

Parameter=Bottom Temperature (deg C) Level=Bottom
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020
15
20
25
30
35

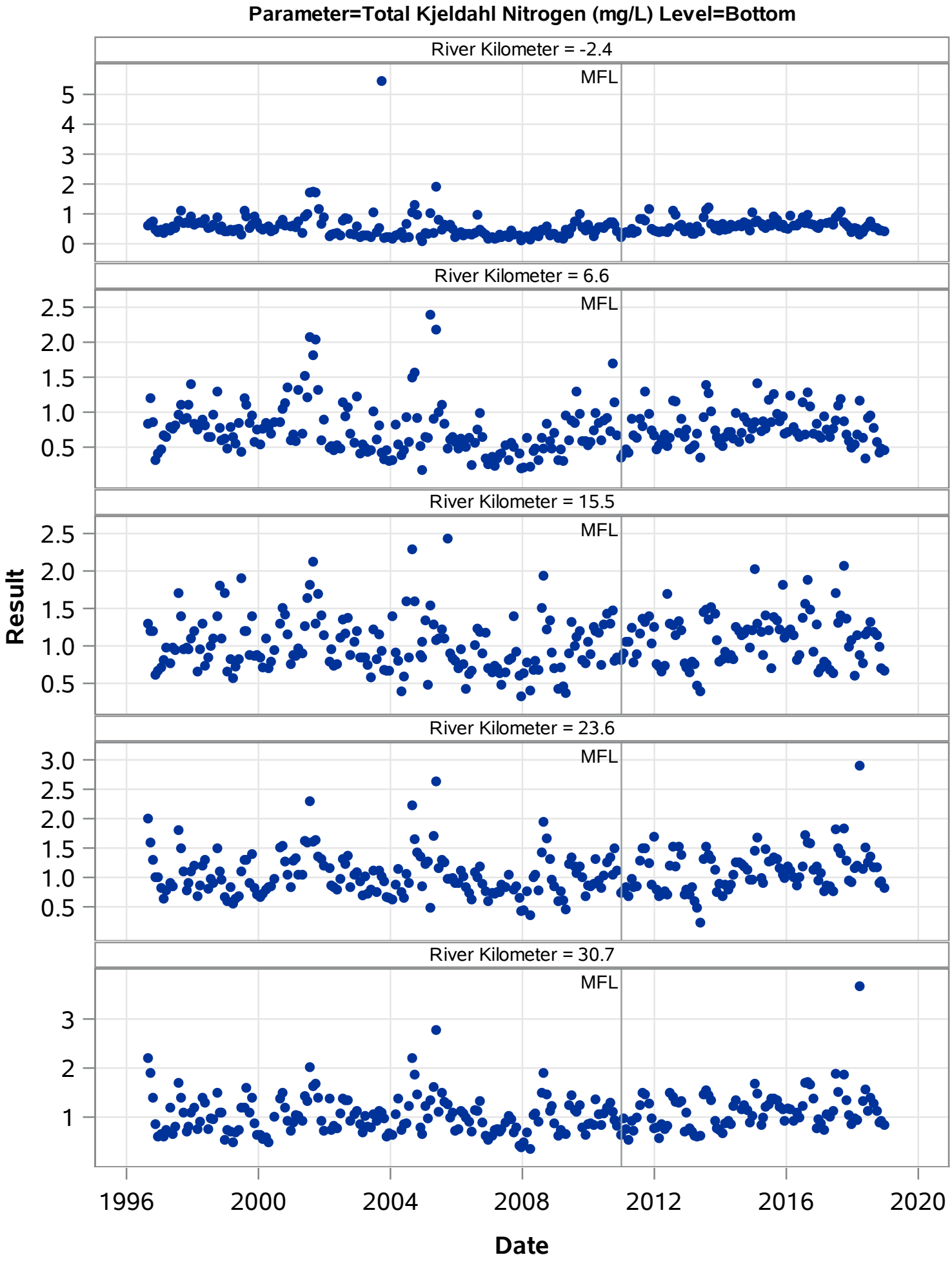

Parameter=Bottom Temperature (deg C) Level=Bottom
River Kilometer = 32.3
MFL
30
25
20
15
Result
1996
2000
2004
2008
2012
2016
2020
Date

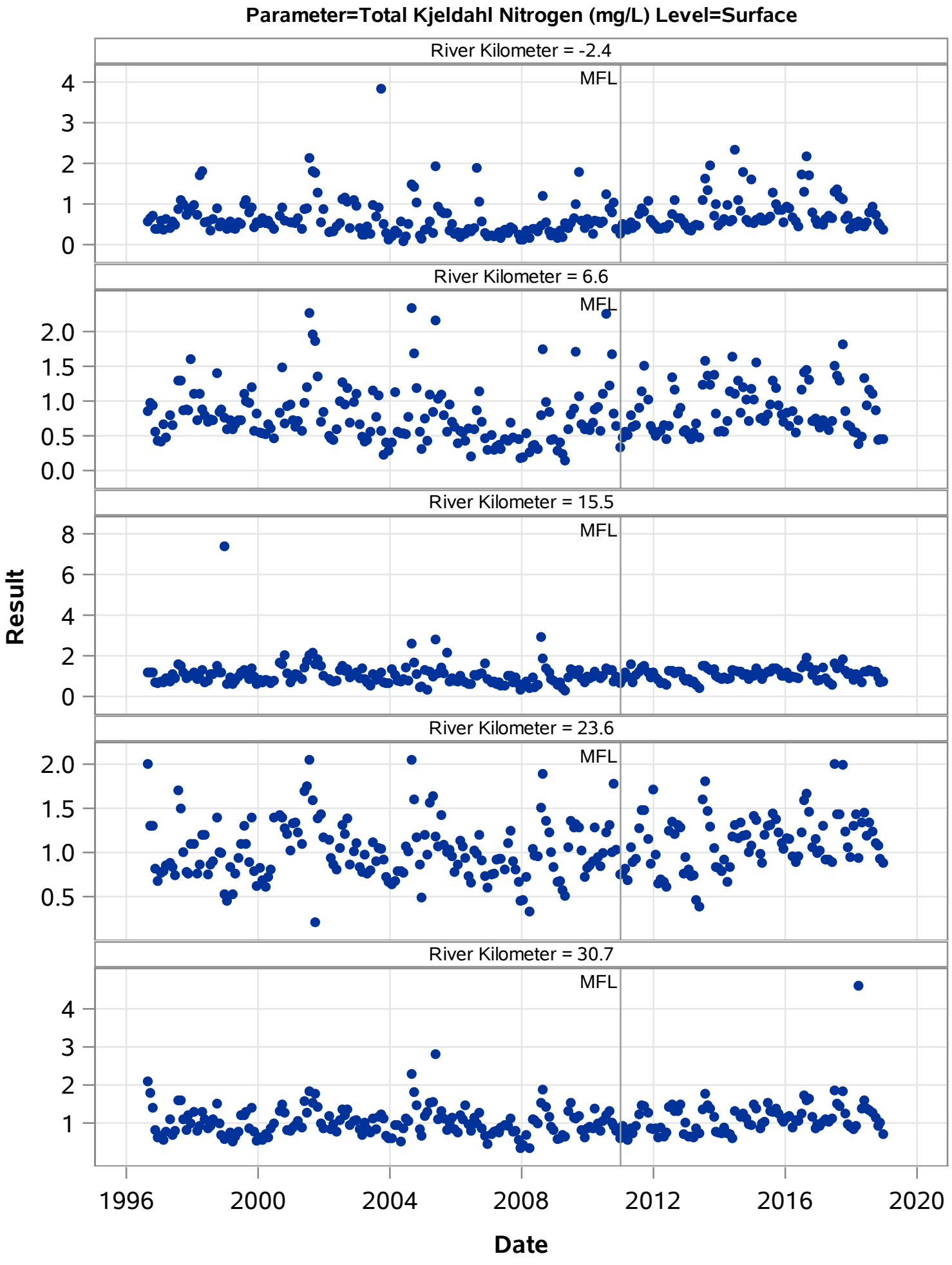

Parameter=Surface Temperature (deg C) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
MFL
Result
30
25
20
15
1996
2000
2004
2008
2012
2016
2020
Date

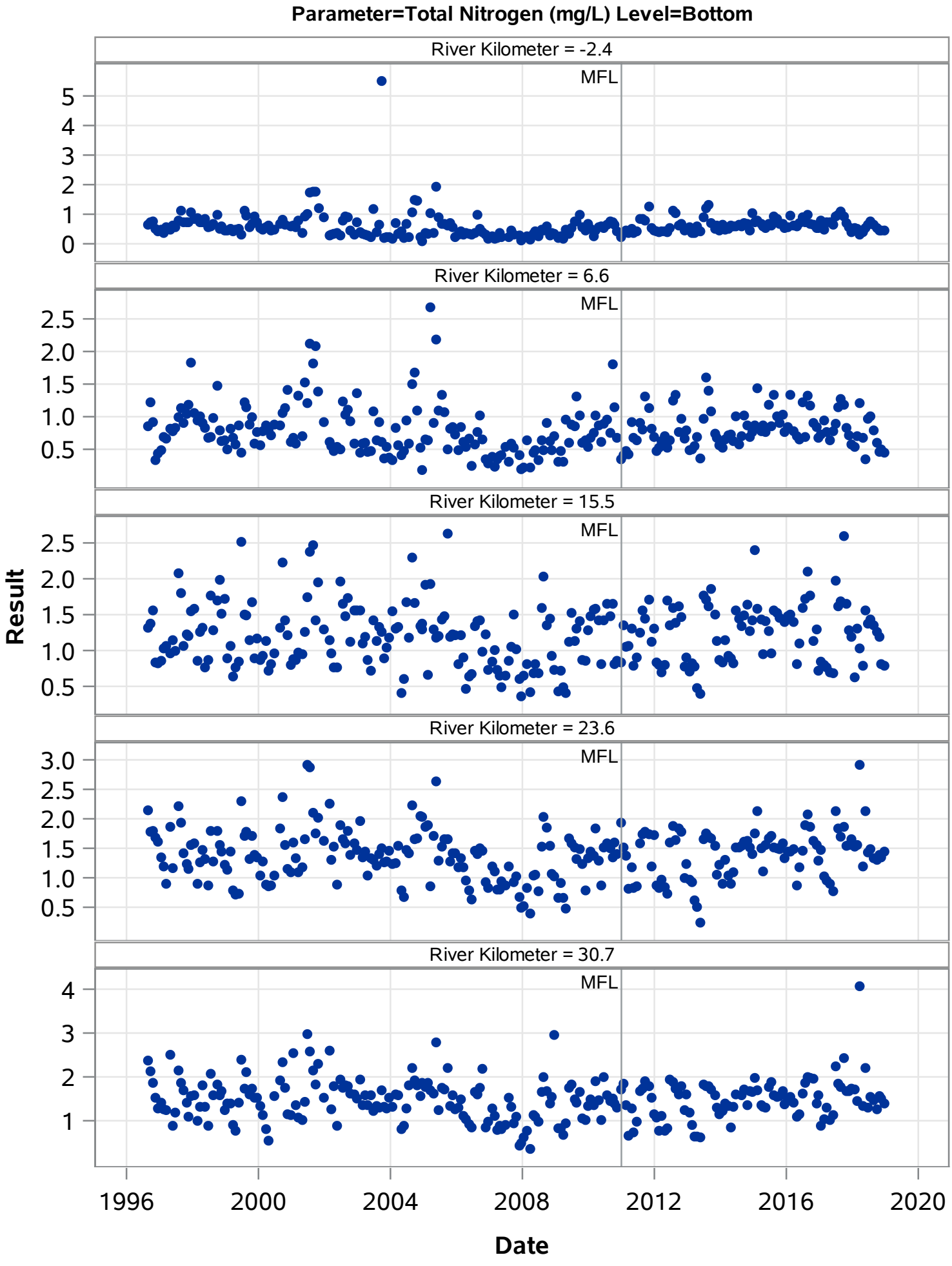

Parameter=Surface Temperature (deg C) Level=Surface
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020
15
20
25
30
35

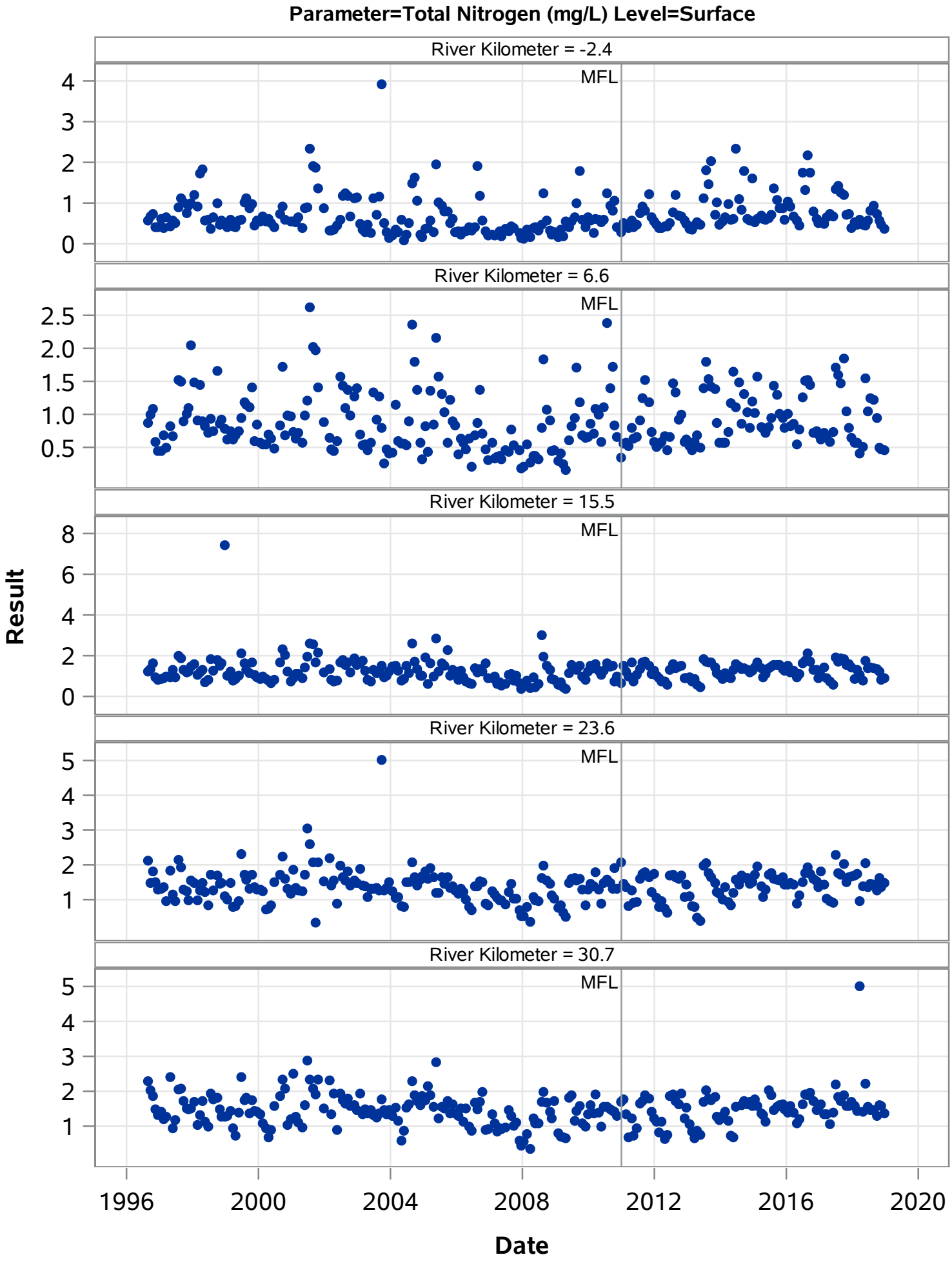

Parameter=Surface Temperature (deg C) Level=Surface
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
MFL
Result
35
30
25
20
15
1996
2000
2004
2008
2012
2016
2020
Date

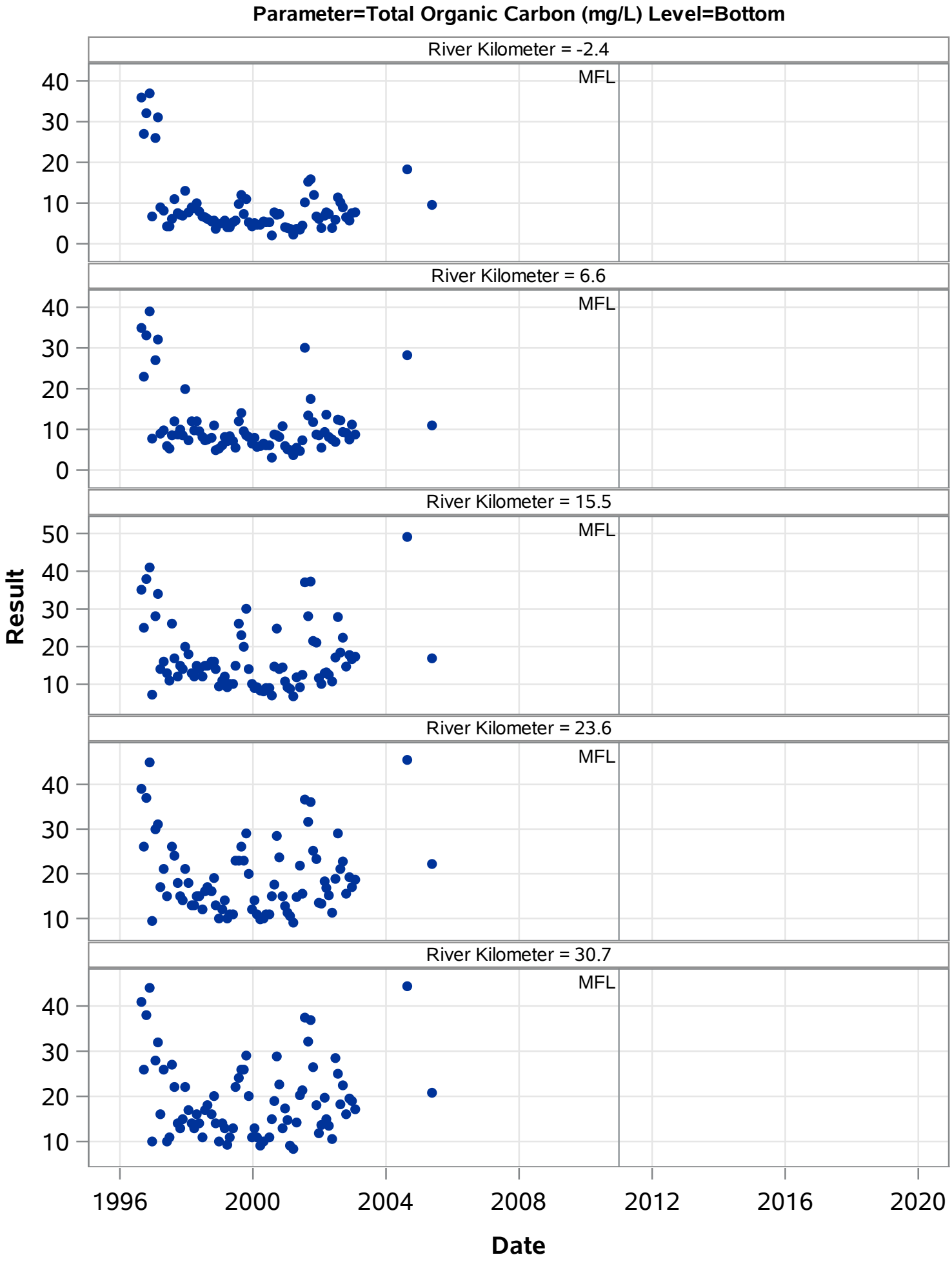

Parameter=Surface Temperature (deg C) Level=Surface
River Kilometer = 32.3
MFL
30
25
20
15
Result
1996
2000
2004
2008
2012
2016
2020
Date

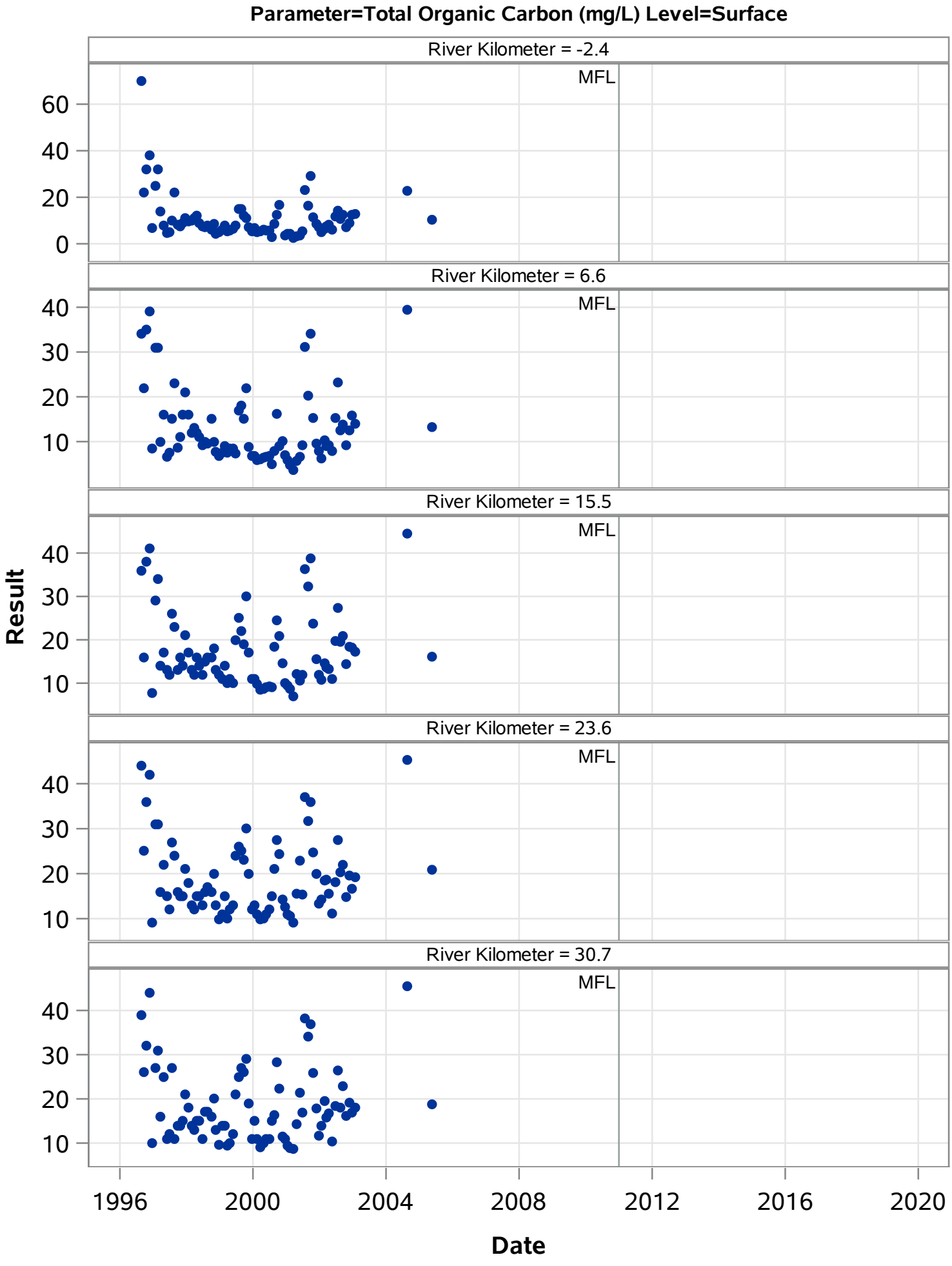

Parameter=Total Kjeldahl Nitrogen (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

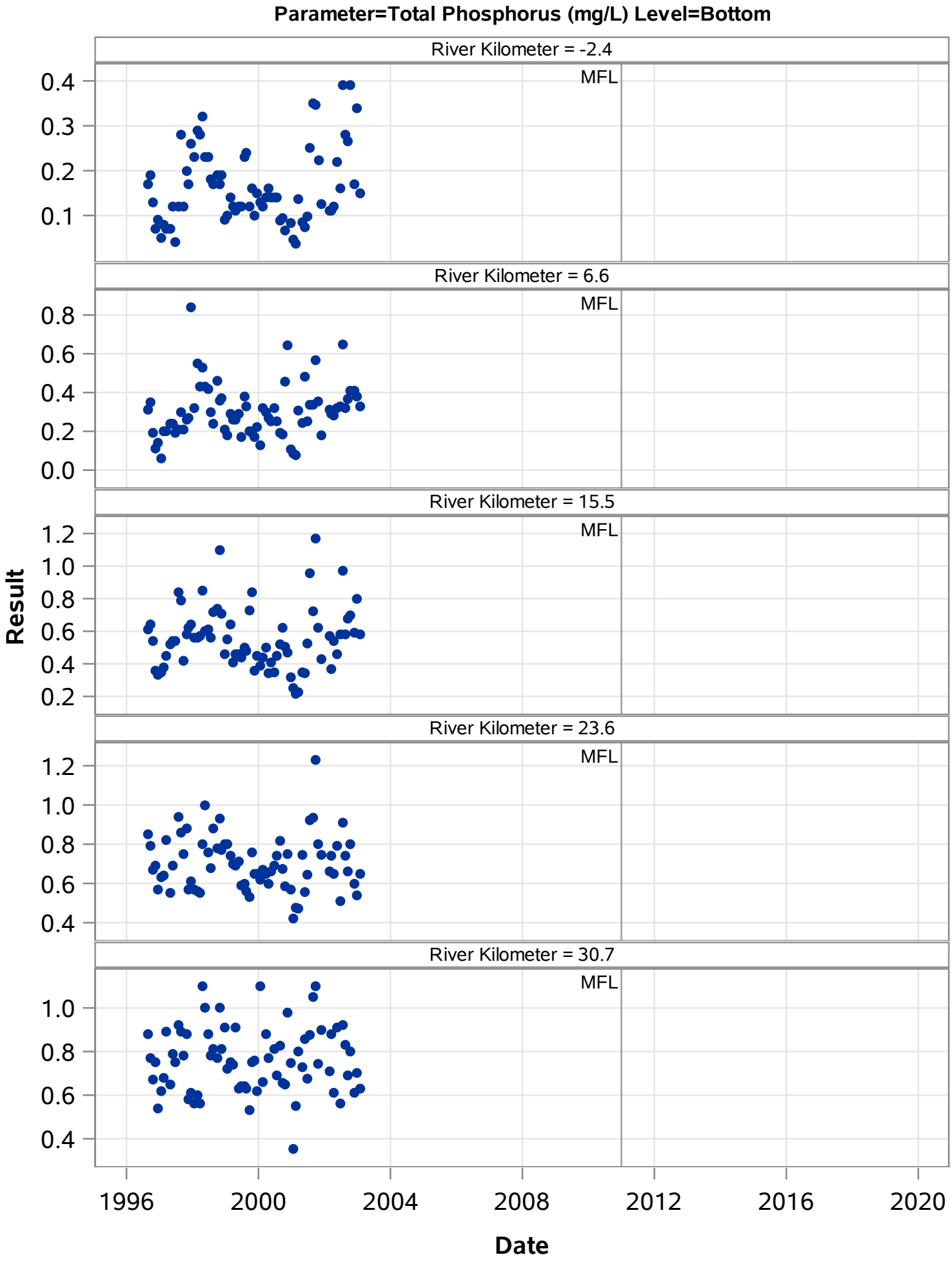

Parameter=Total Kjeldahl Nitrogen (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

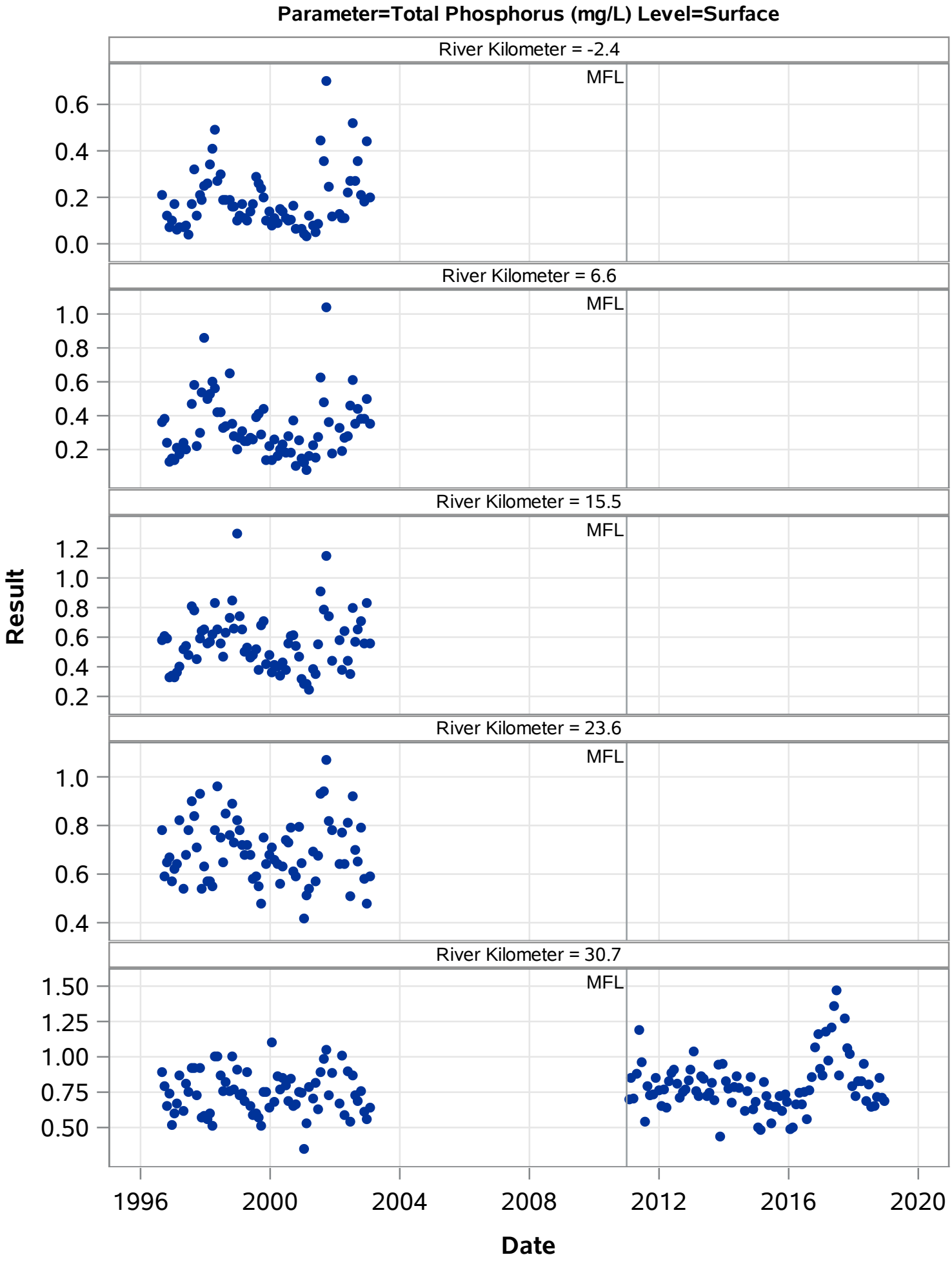

Parameter=Total Nitrogen (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

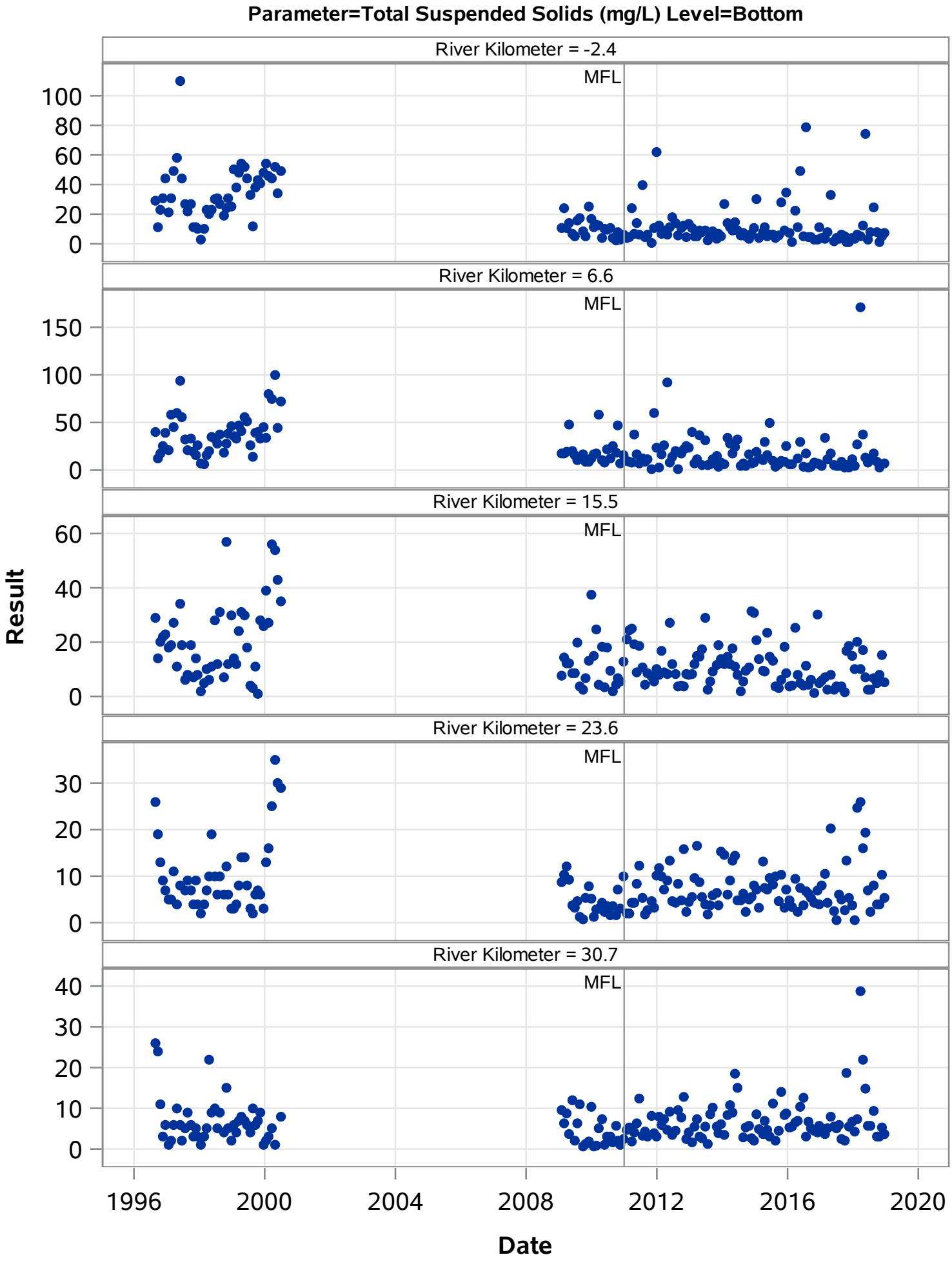

Parameter=Total Nitrogen (mg/L) Level=Surface
River Kilometer = -2.4
MFL
River Kilometer = 6.6
MFL
River Kilometer = 15.5
MFL
River Kilometer = 23.6
MFL
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

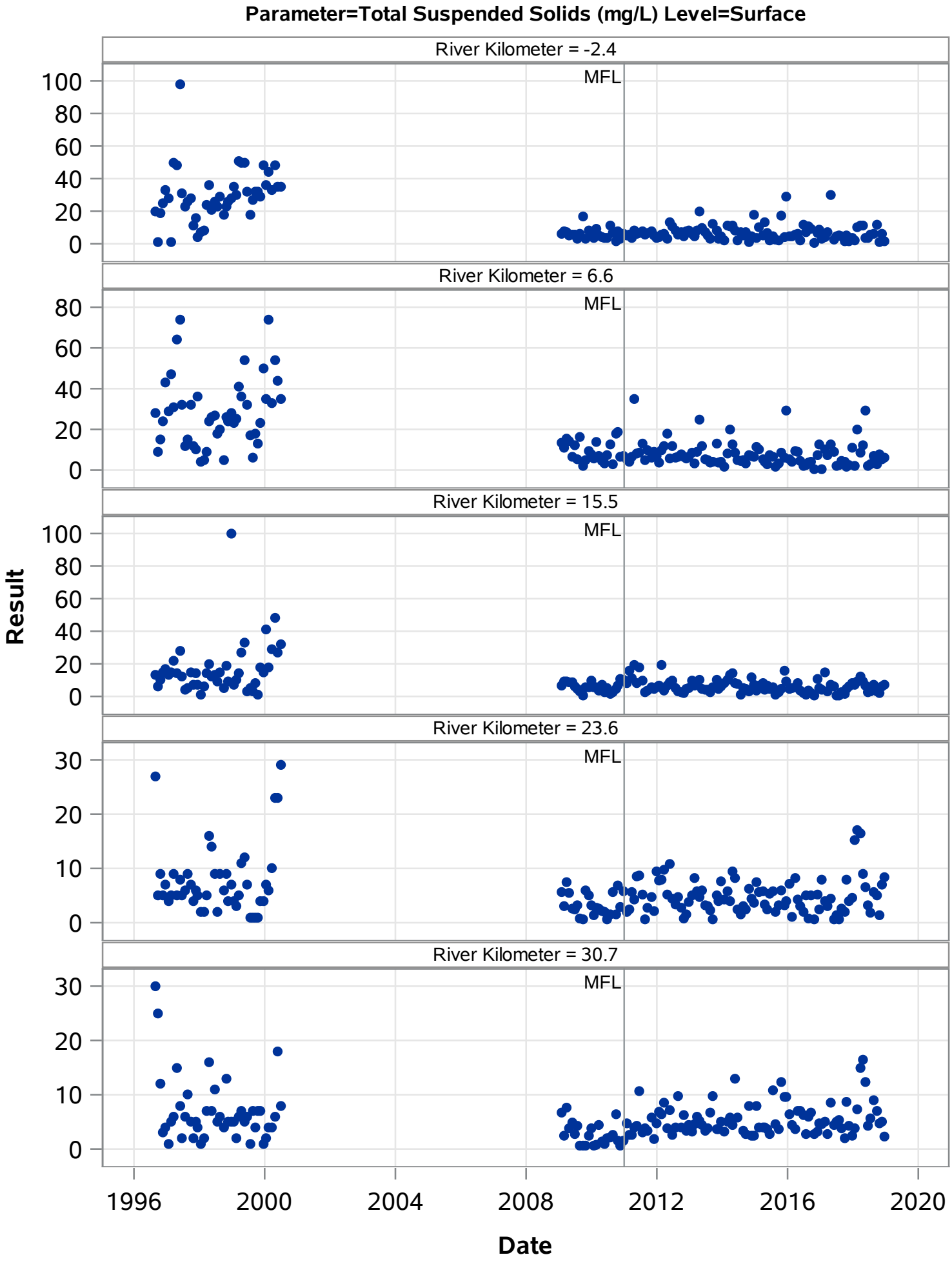

Parameter=Total Organic Carbon (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

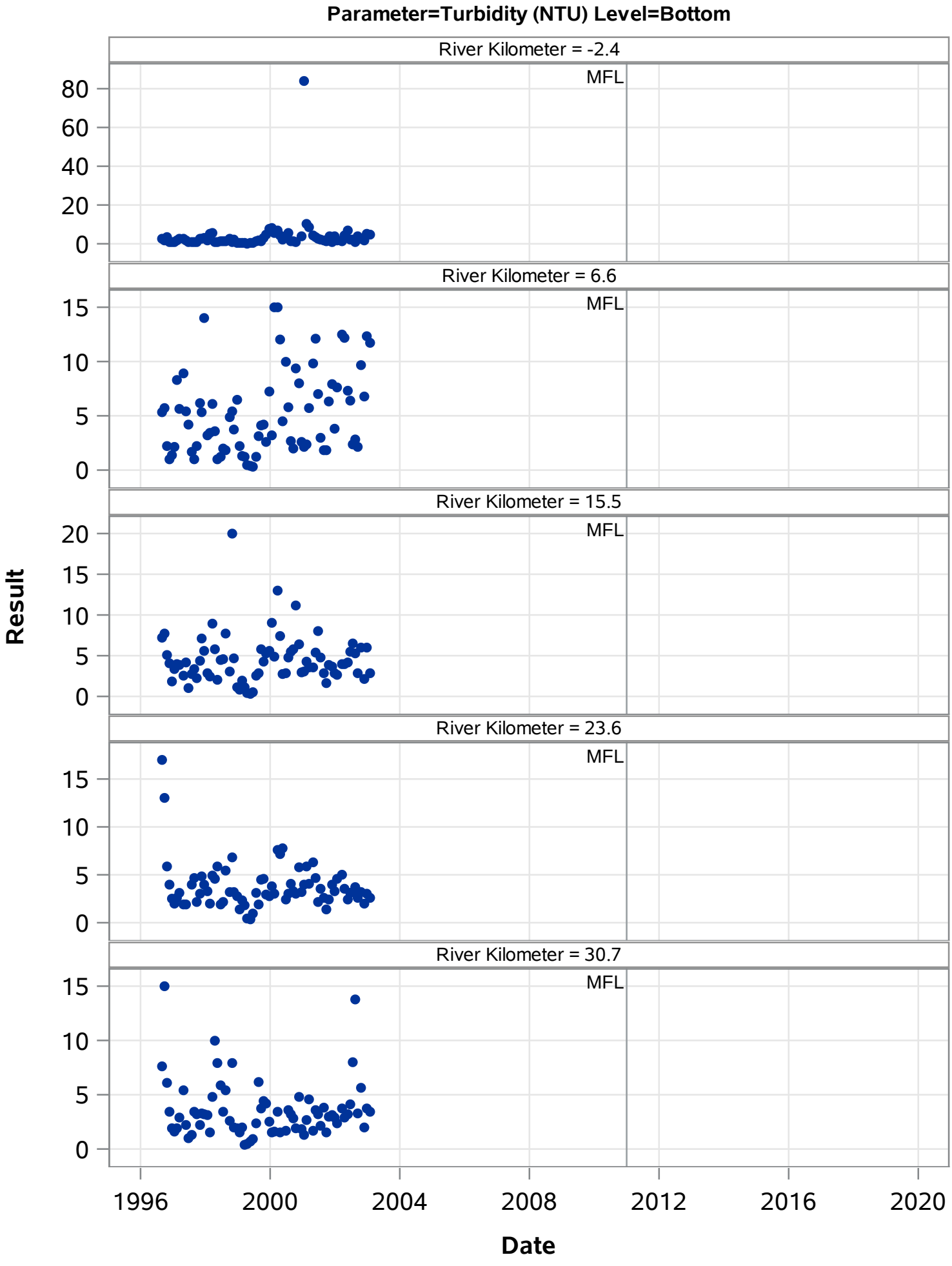

Parameter=Total Organic Carbon (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

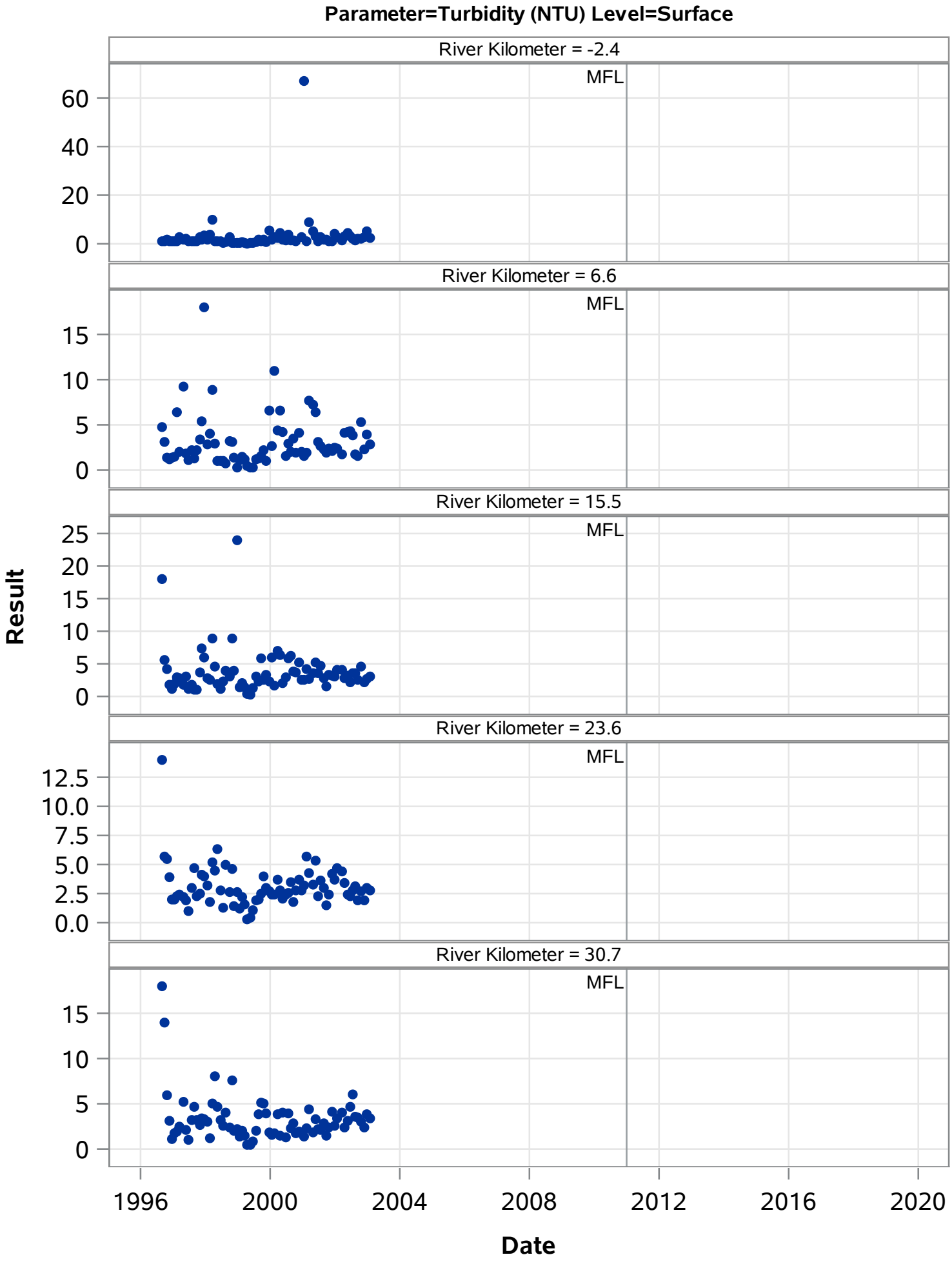

Parameter=Total Phosphorus (mg/L) Level=Bottom
River Kilometer = -2.4
MFL
0.4
0.3
0.2
0.1
River Kilometer = 6.6
MFL
0.8
0.6
0.4
0.2
0.0
River Kilometer = 15.5
MFL
1.2
1.0
0.8
0.6
0.4
0.2
River Kilometer = 23.6
MFL
1.2
1.0
0.8
0.6
0.4
River Kilometer = 30.7
MFL
1.0
0.8
0.6
0.4
Result
1996
2000
2004
2008
2012
2016
2020
Date

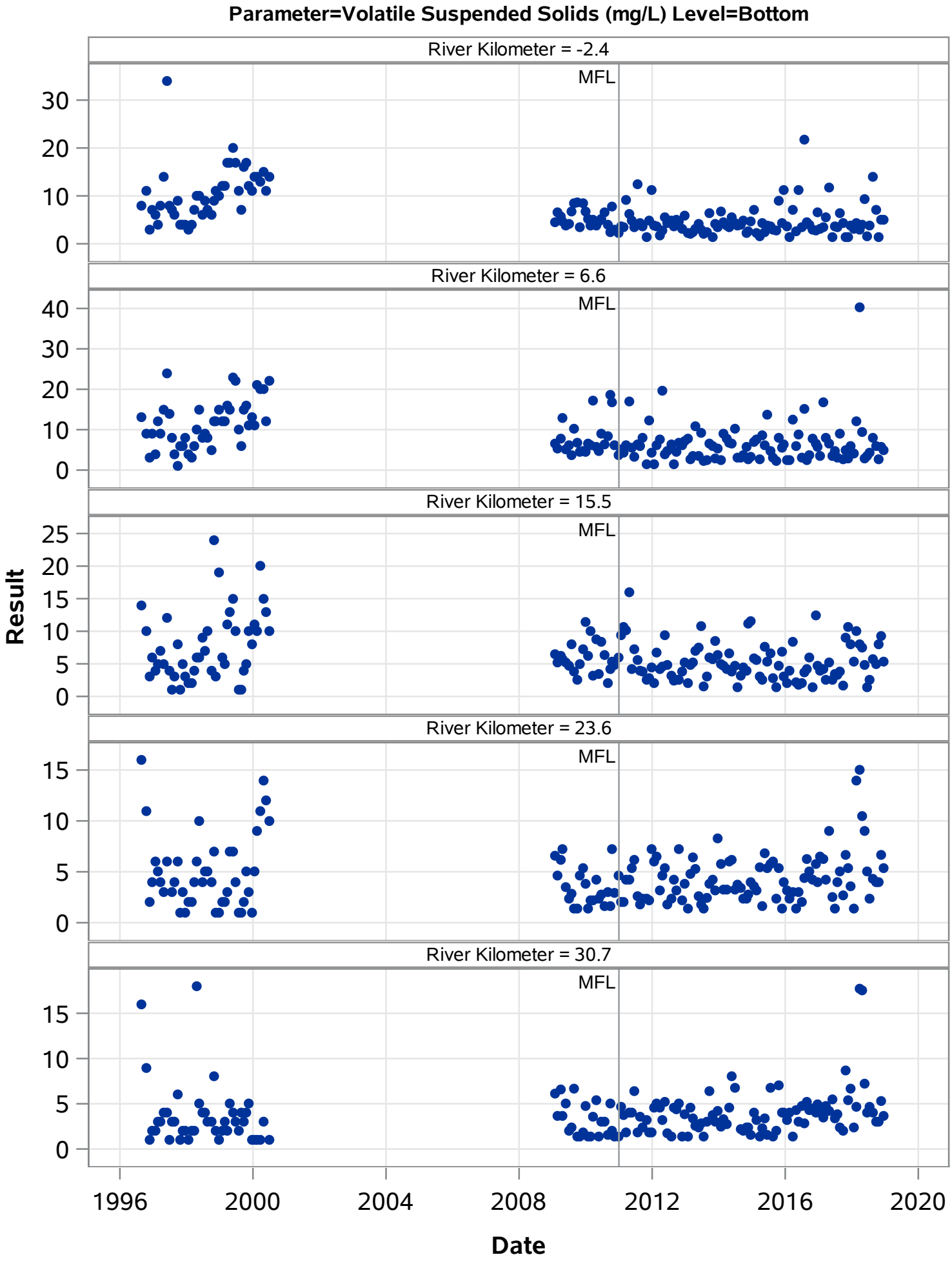

Parameter=Total Phosphorus (mg/L) Level=Surface
River Kilometer = -2.4
MFL
0.6
0.4
0.2
0.0
River Kilometer = 6.6
MFL
1.0
0.8
0.6
0.4
0.2
River Kilometer = 15.5
MFL
1.2
1.0
0.8
0.6
0.4
0.2
River Kilometer = 23.6
MFL
1.0
0.8
0.6
0.4
River Kilometer = 30.7
MFL
1.50
1.25
1.00
0.75
0.50
Result
1996
2000
2004
2008
2012
2016
2020
Date

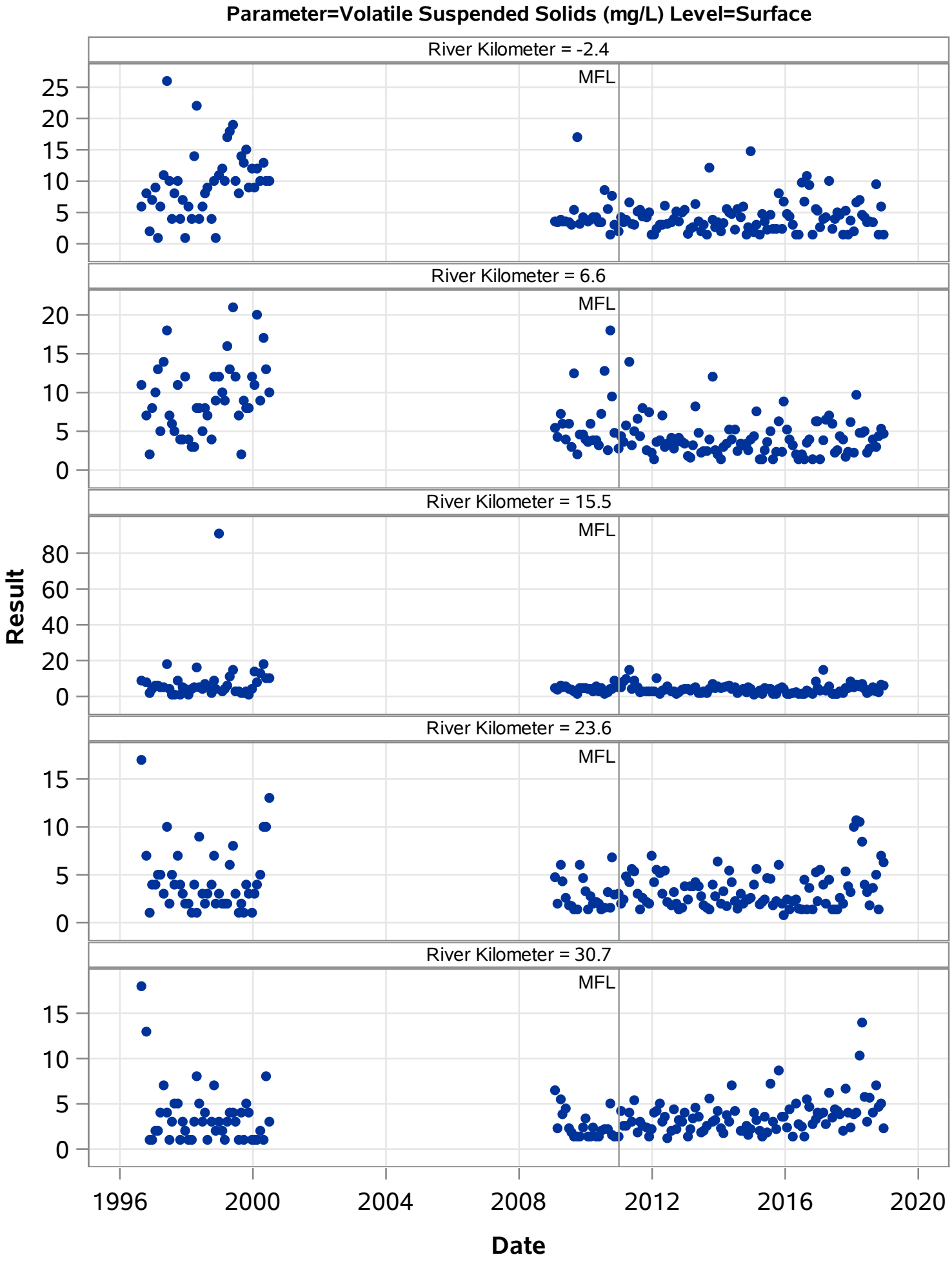

Parameter=Total Suspended Solids (mg/L) Level=Bottom
River Kilometer = -2.4
MFL
River Kilometer = 6.6
MFL
River Kilometer = 15.5
MFL
River Kilometer = 23.6
MFL
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

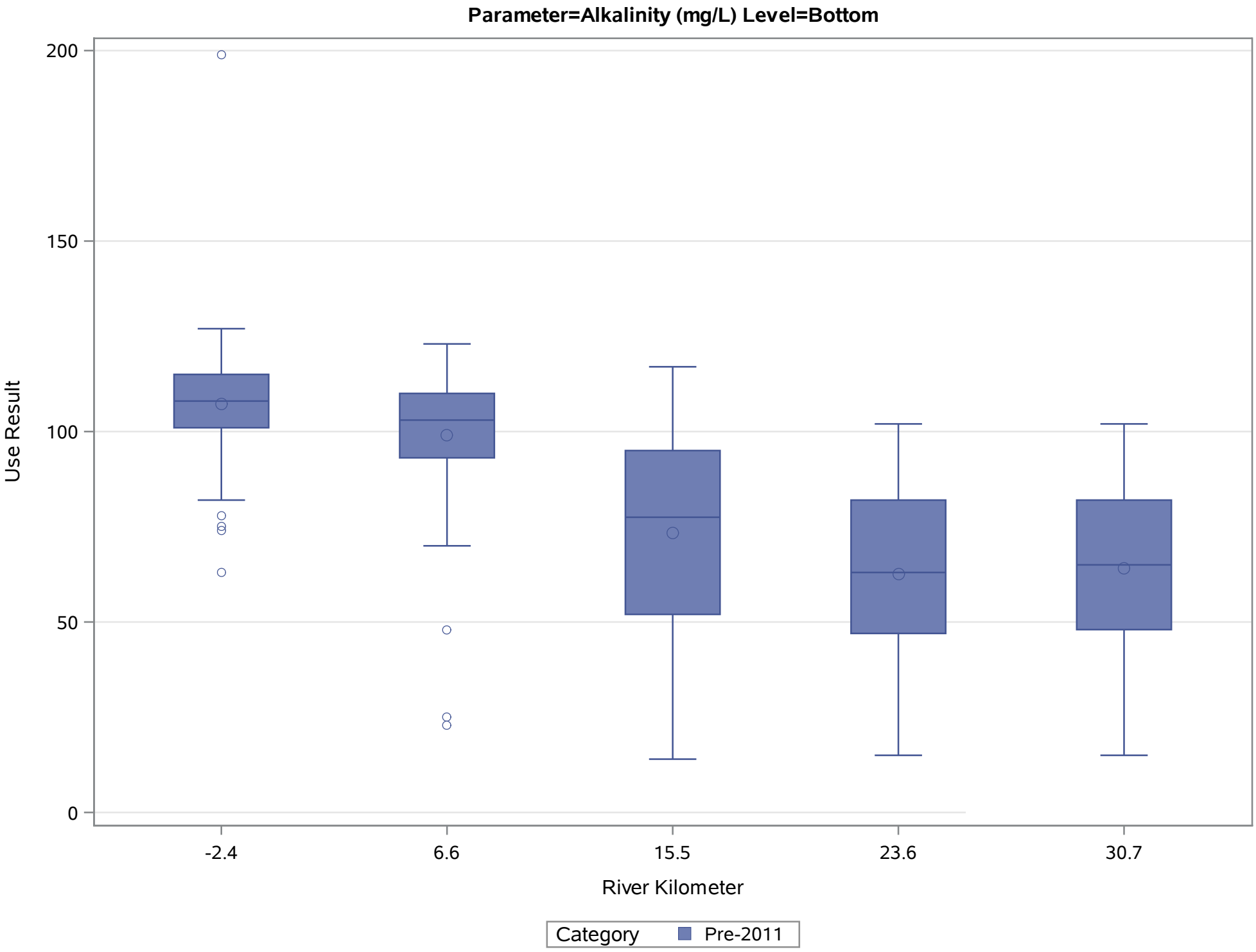

Parameter=Total Suspended Solids (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

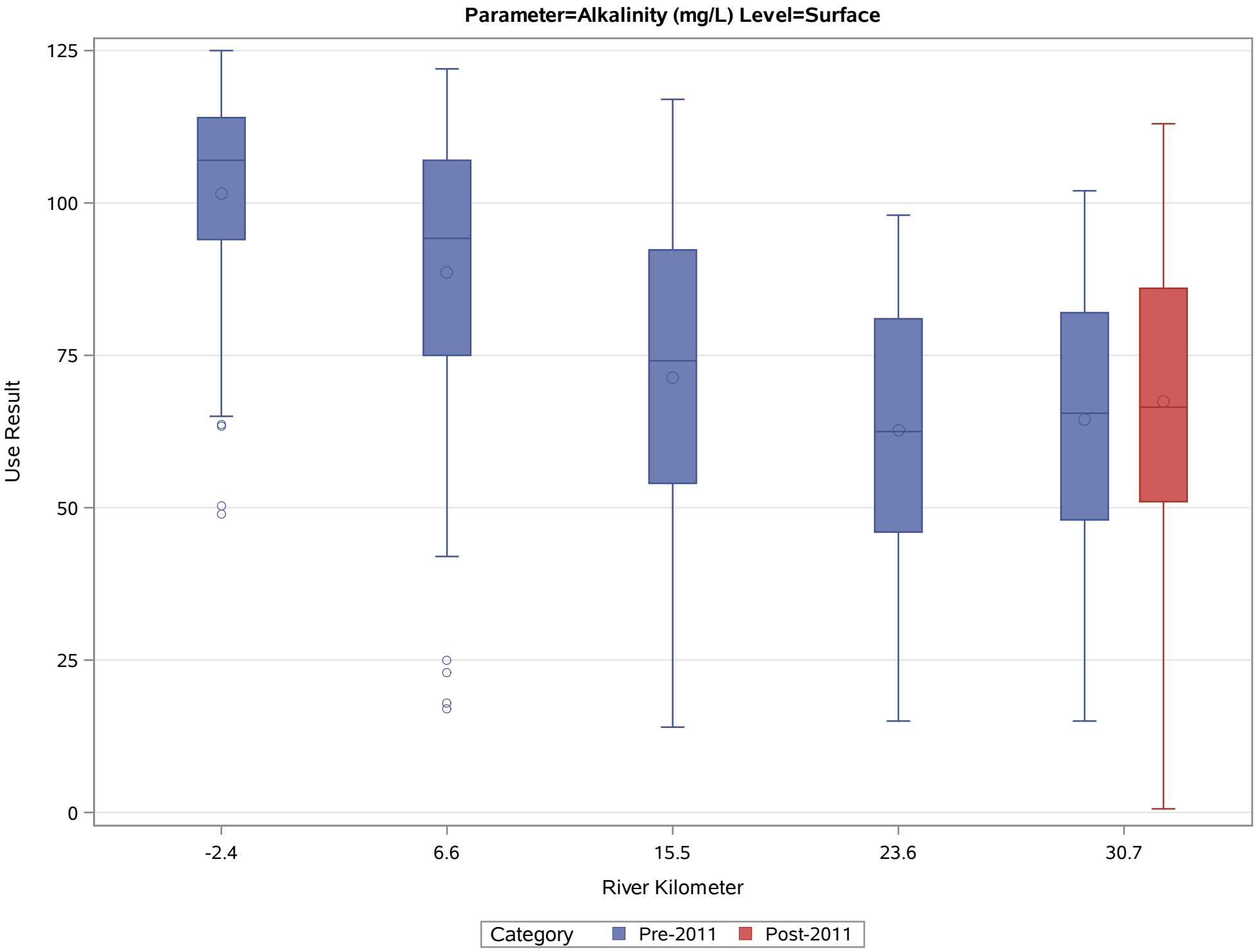

Parameter=Turbidity (NTU) Level=Bottom
River Kilometer = -2.4
MFL
80
60
40
20
0
River Kilometer = 6.6
MFL
15
10
5
0
River Kilometer = 15.5
MFL
20
15
10
5
0
River Kilometer = 23.6
MFL
15
10
5
0
River Kilometer = 30.7
MFL
15
10
5
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

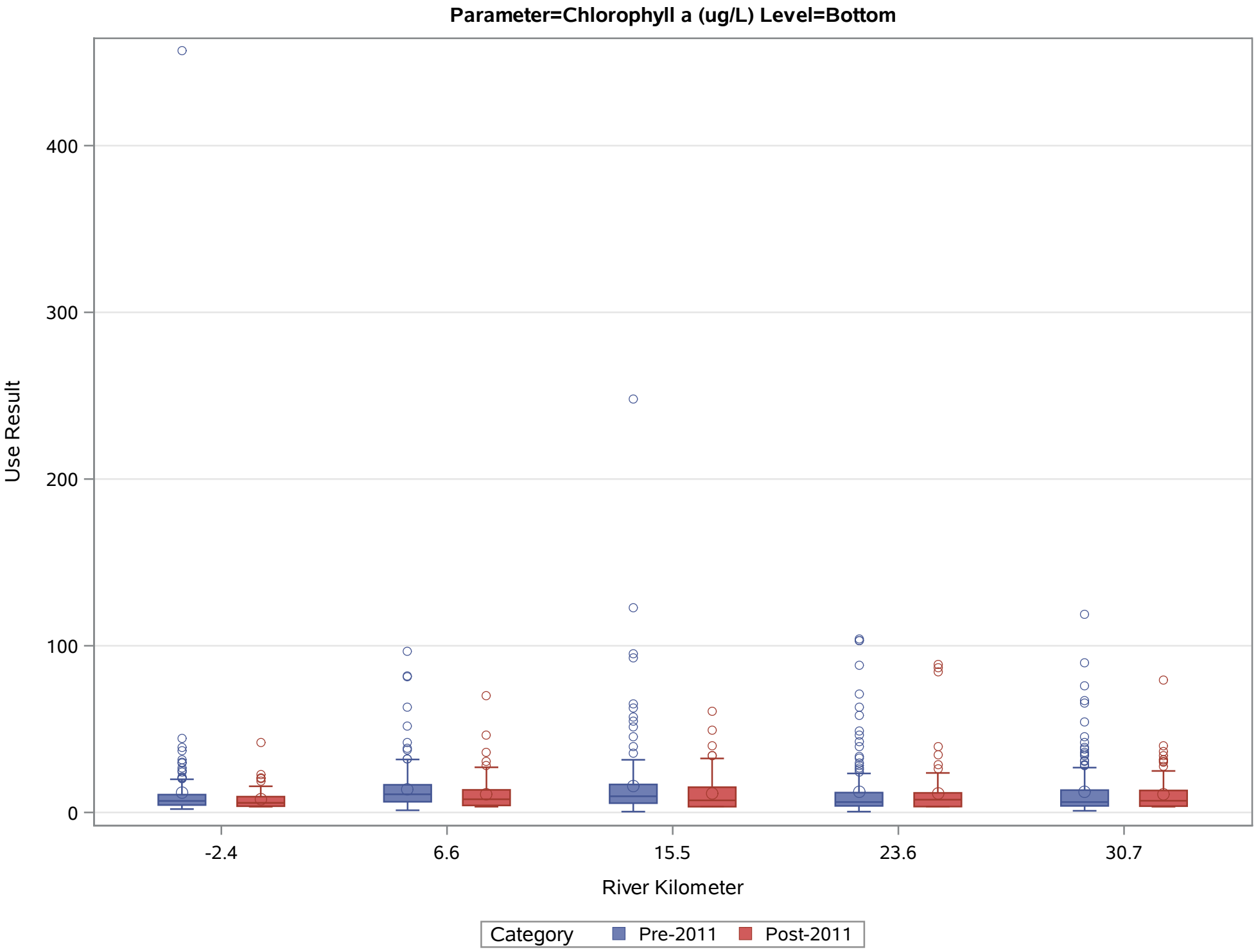

Parameter=Turbidity (NTU) Level=Surface
River Kilometer = -2.4
MFL
60
40
20
0
River Kilometer = 6.6
MFL
15
10
5
0
River Kilometer = 15.5
MFL
25
20
15
10
5
0
River Kilometer = 23.6
MFL
12.5
10.0
7.5
5.0
2.5
0.0
River Kilometer = 30.7
MFL
15
10
5
0
Result
1996
2000
2004
2008
2012
2016
2020
Date

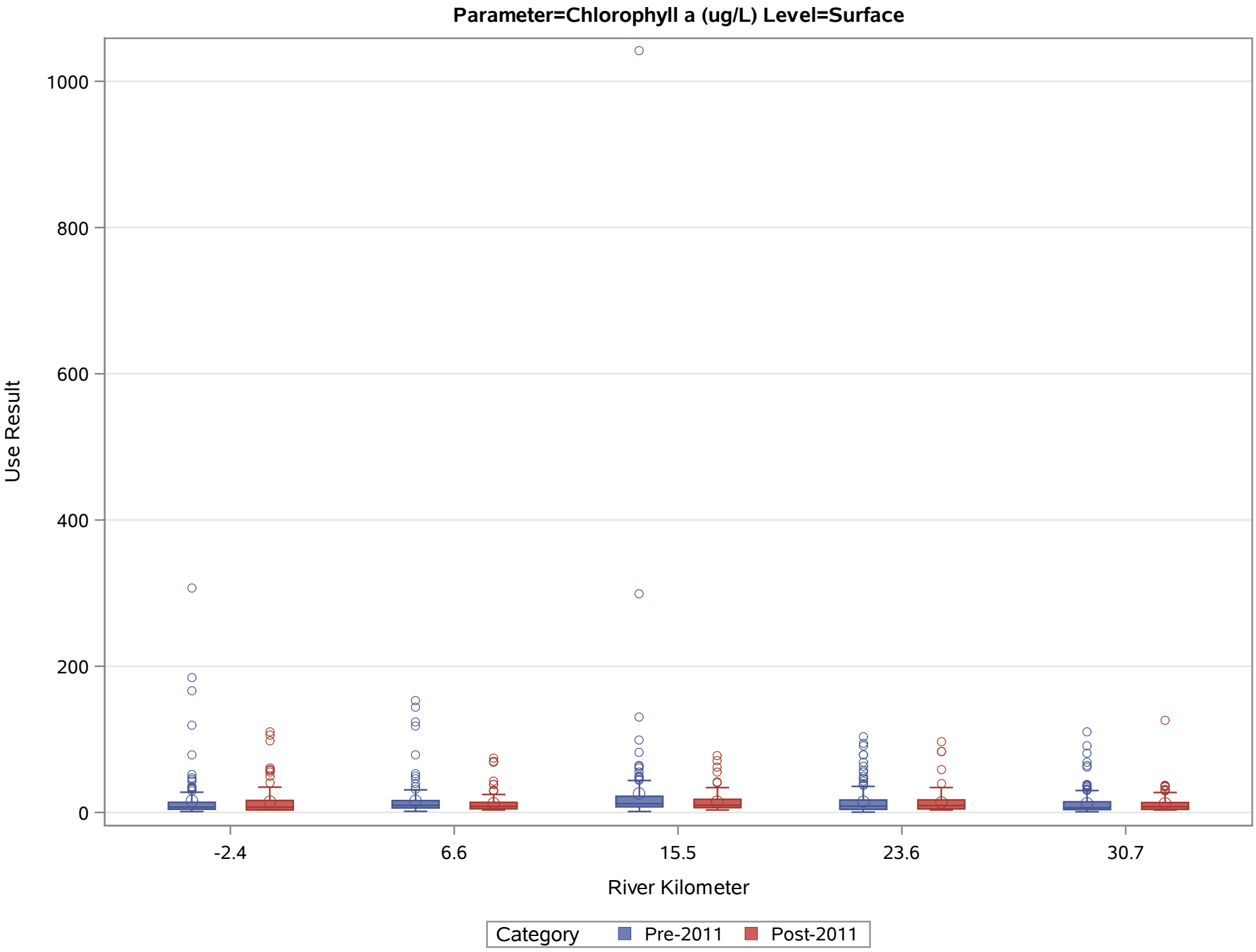

Parameter=Volatile Suspended Solids (mg/L) Level=Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

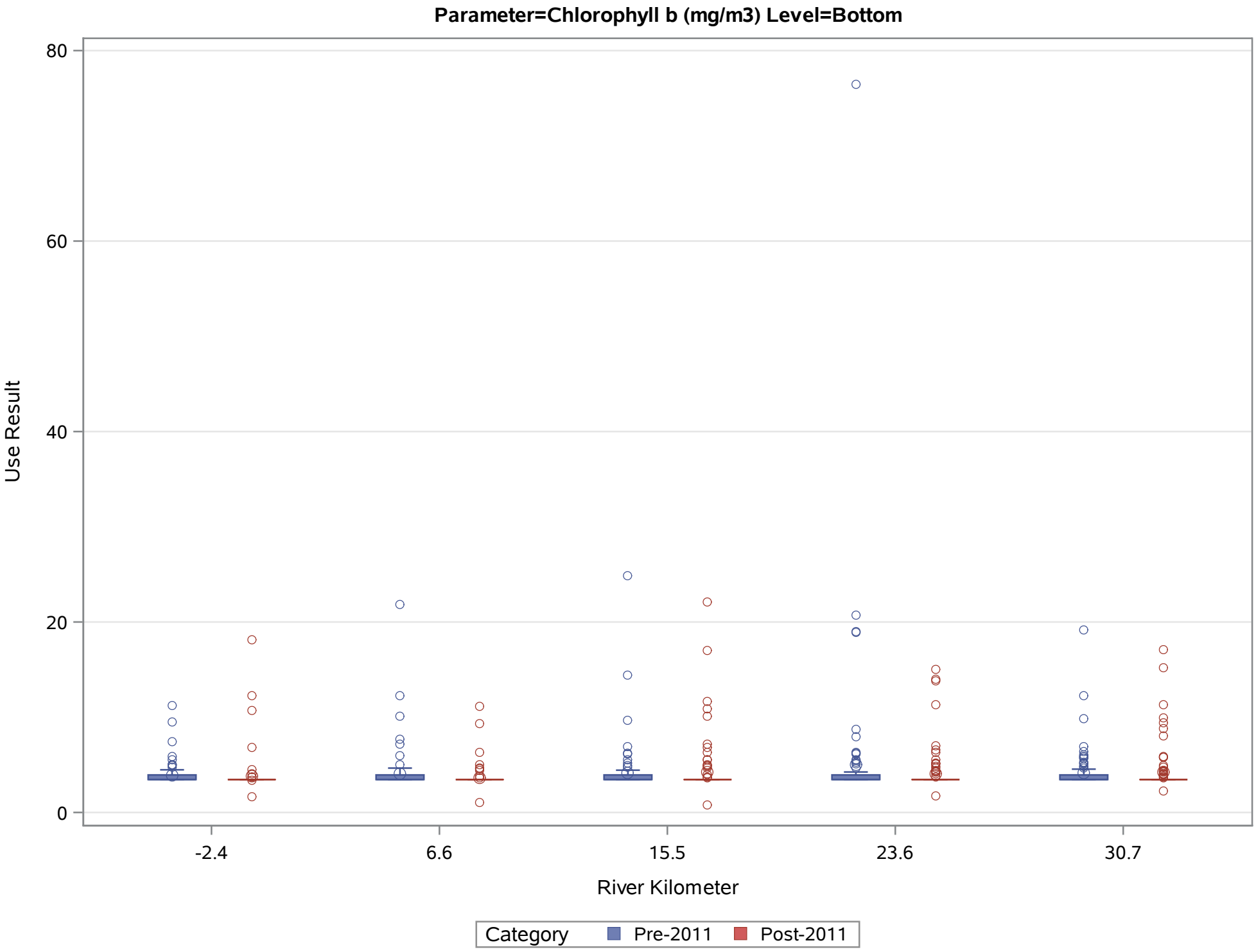

Parameter=Volatile Suspended Solids (mg/L) Level=Surface
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 15.5
River Kilometer = 23.6
River Kilometer = 30.7
MFL
Result
Date
1996
2000
2004
2008
2012
2016
2020

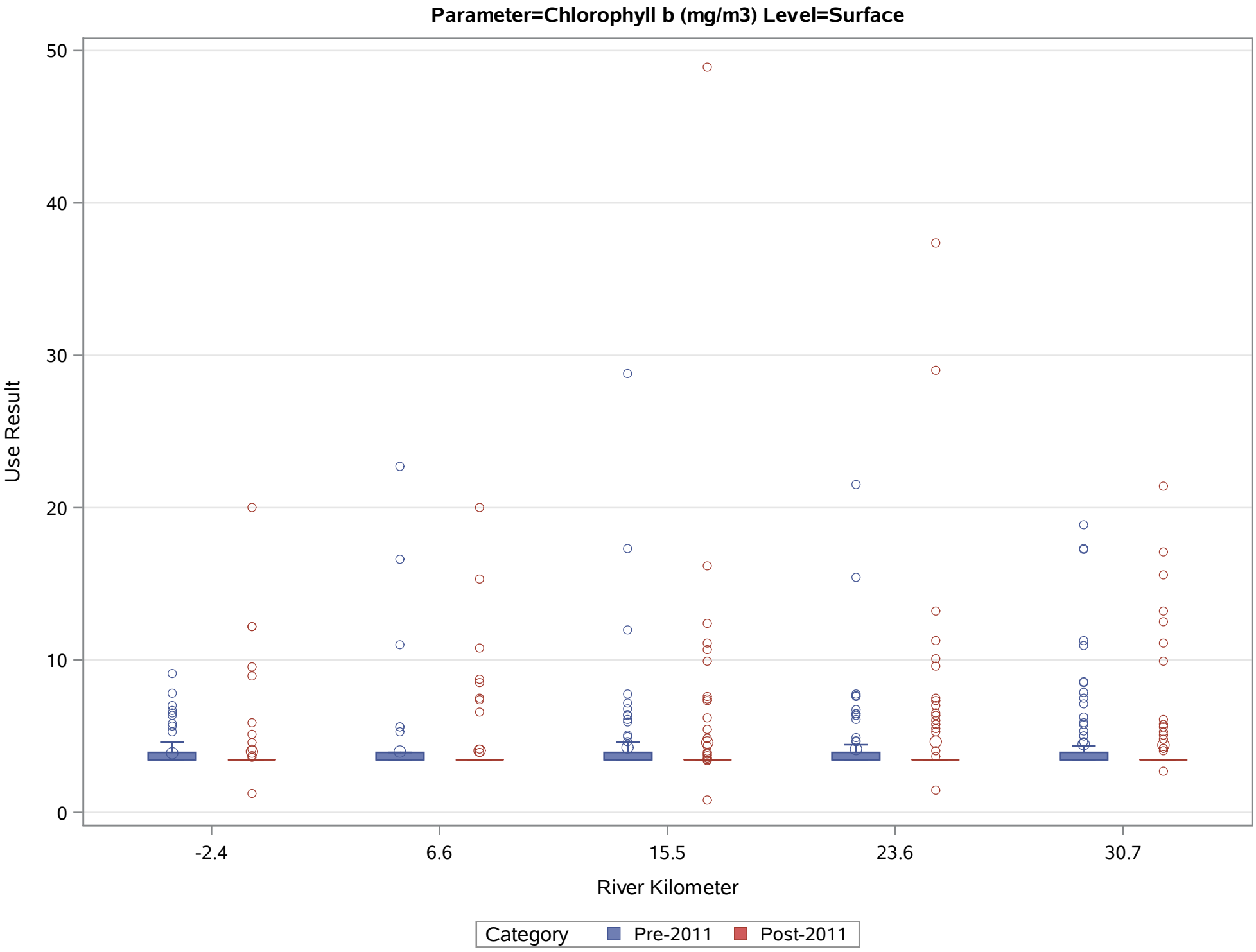

Parameter=Alkalinity (mg/L) Level=Bottom
200
150
100
50
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

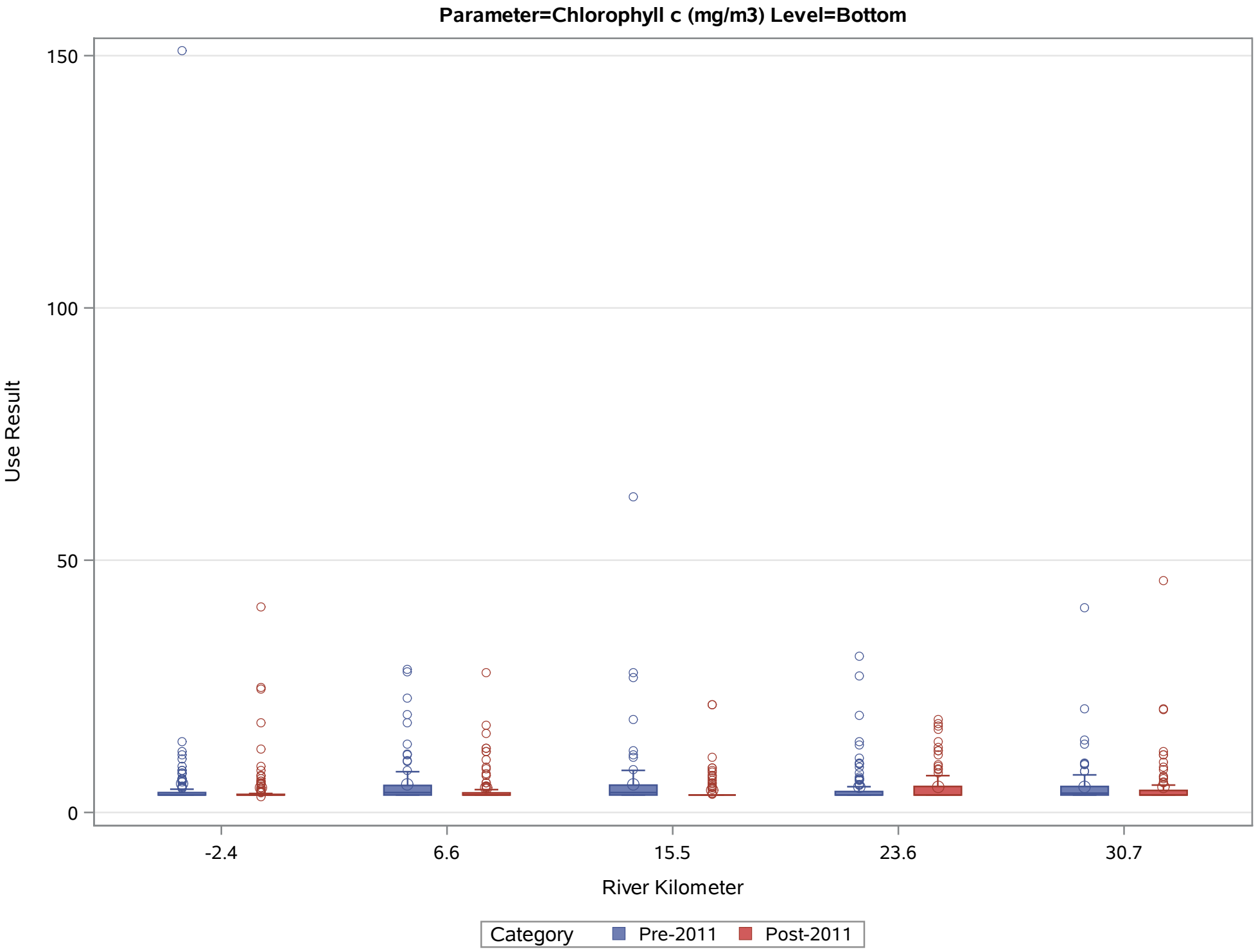

Parameter=Alkalinity (mg/L) Level=Surface
125
100
75
50
25
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

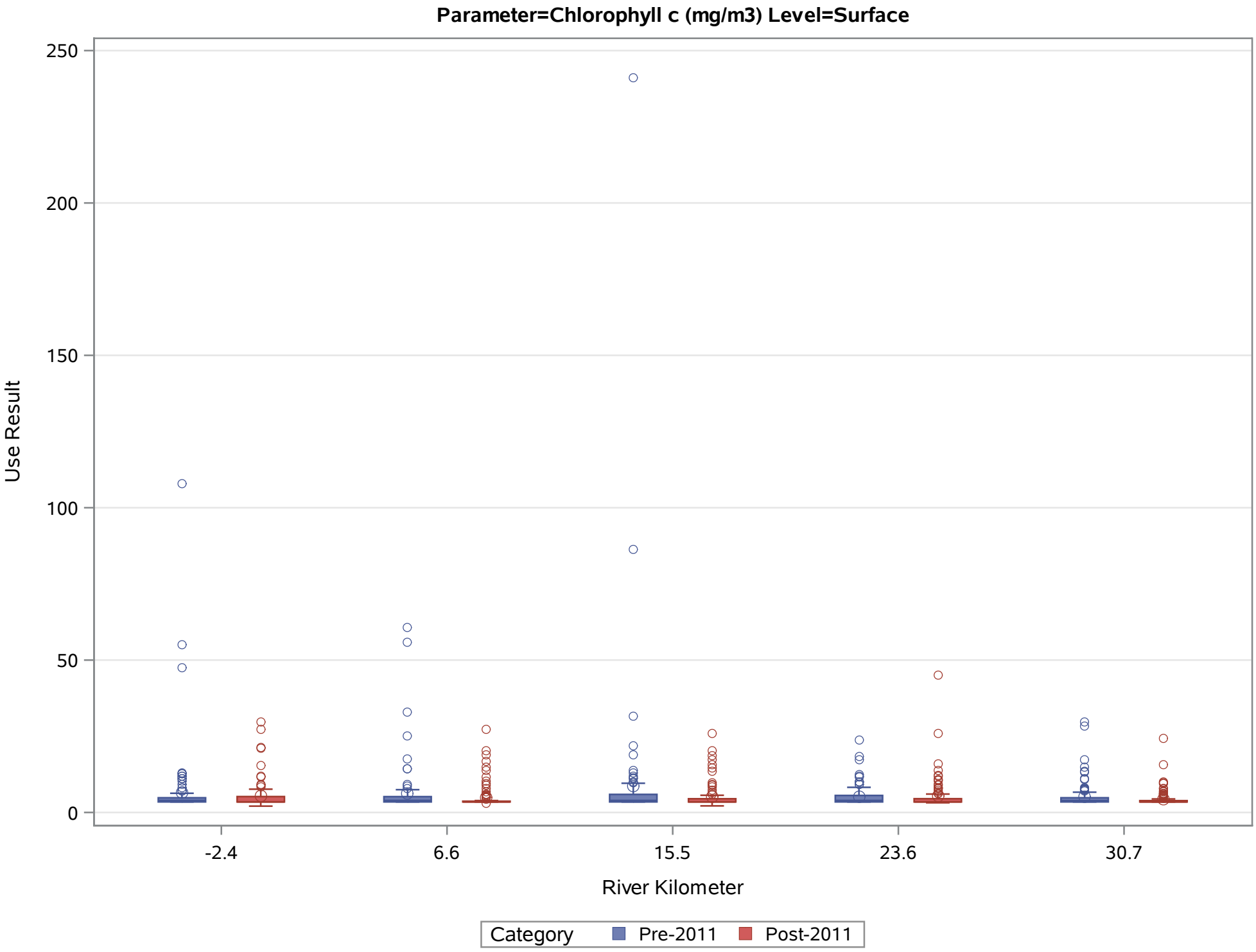

Parameter=Chlorophyll a (ug/L) Level=Bottom
Use Result
400
300
200
100
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

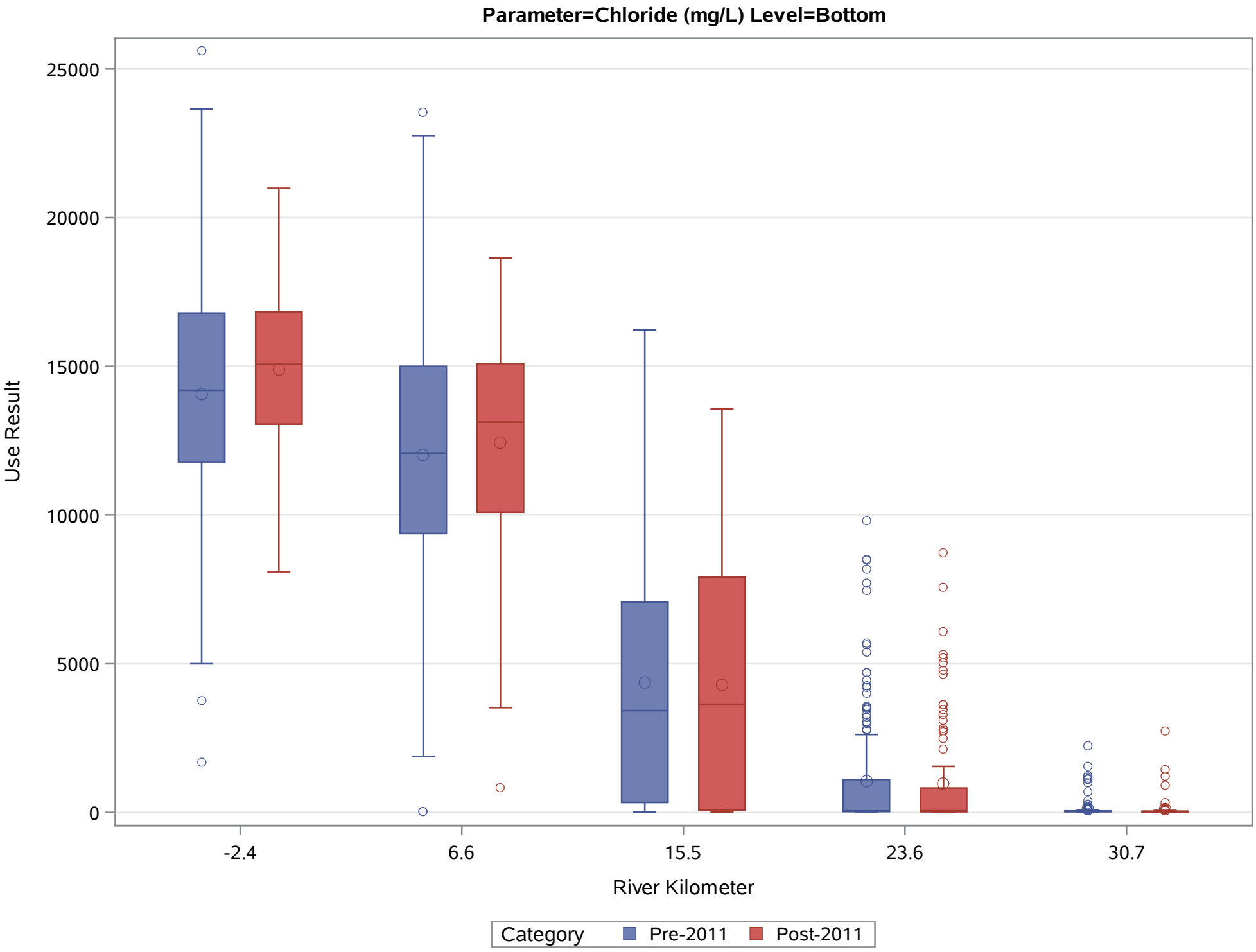

Parameter=Chlorophyll a (ug/L) Level=Surface
1000
800
600
400
200
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

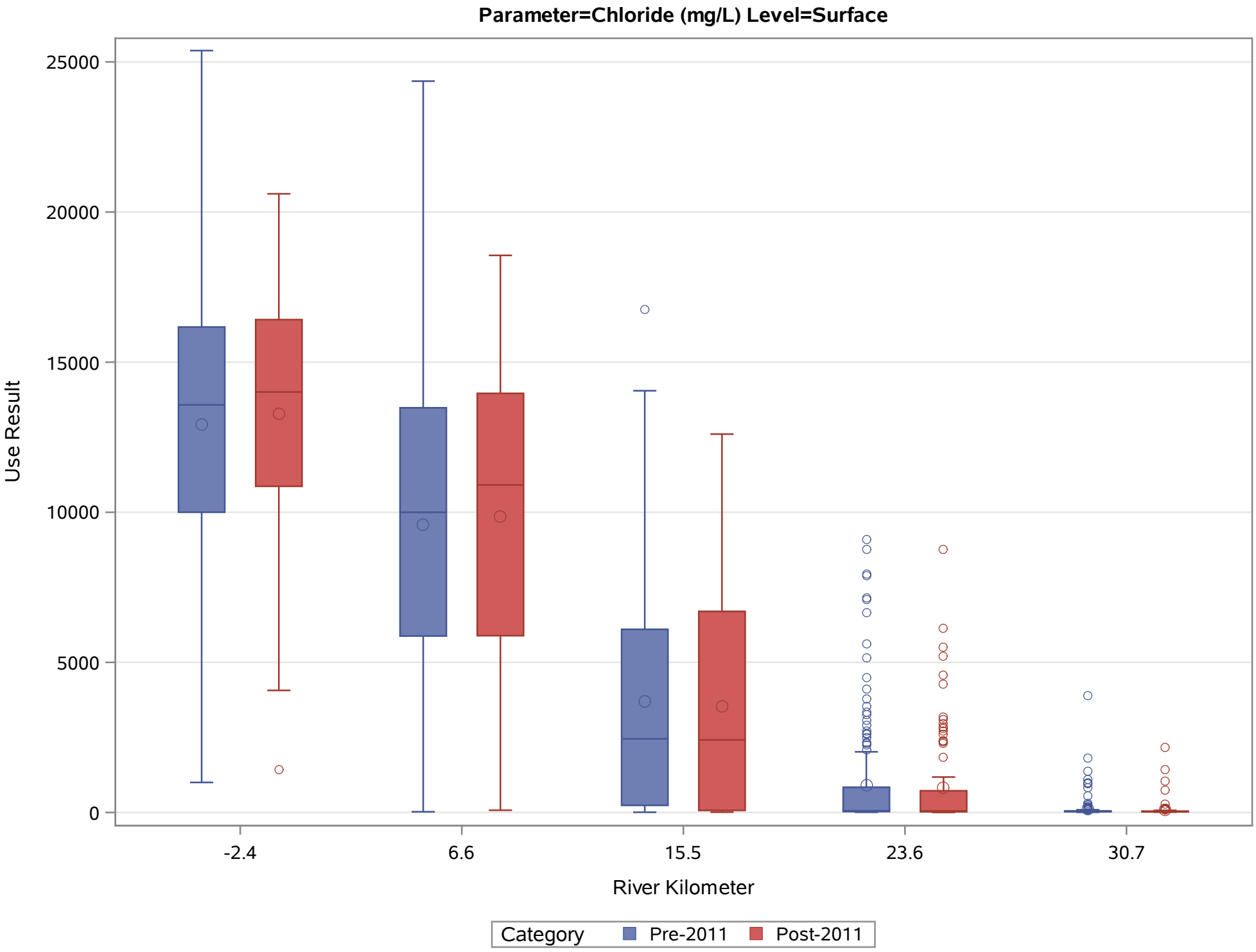

Parameter=Chlorophyll b (mg/m3) Level=Bottom
Use Result
80
60
40
20
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

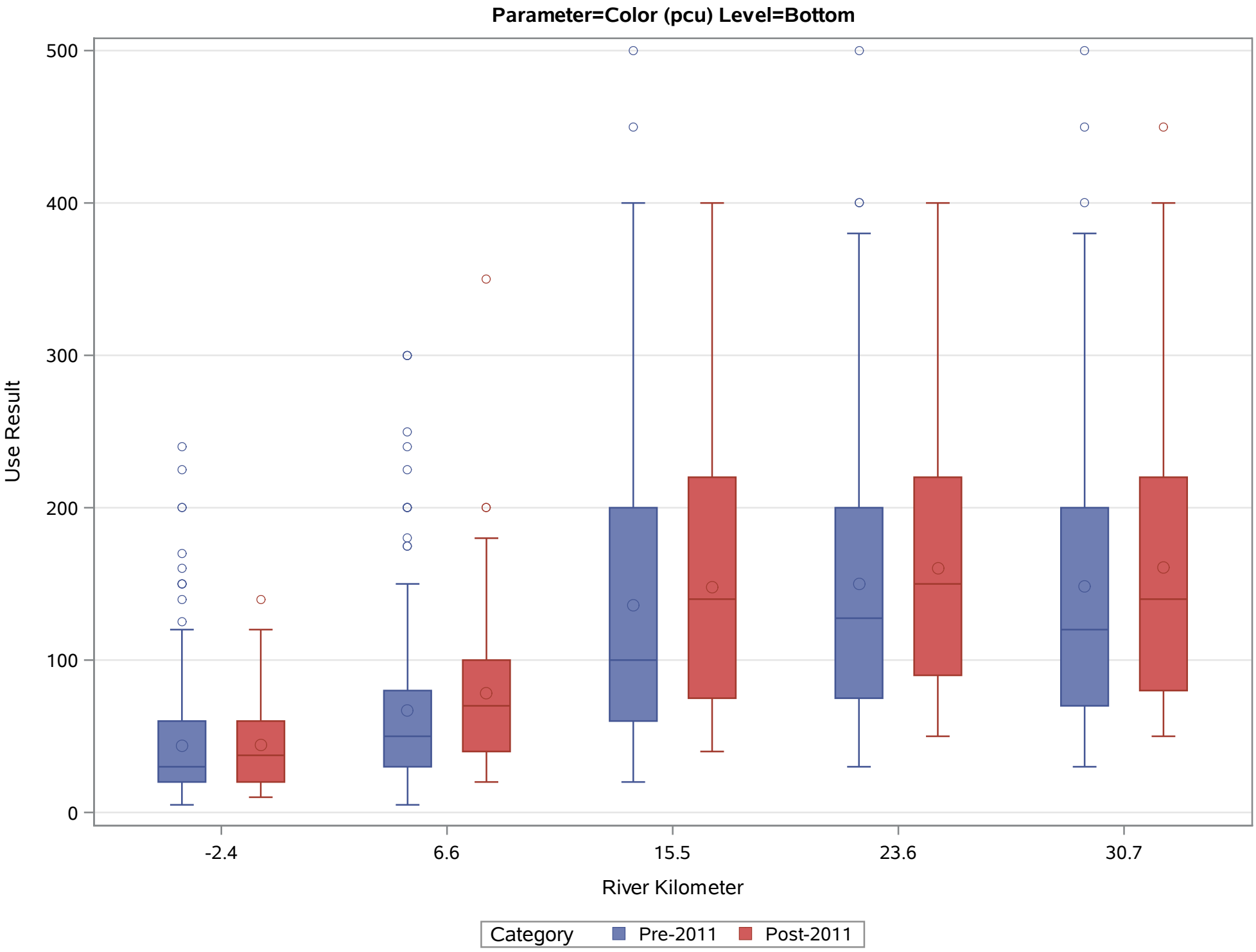

Parameter=Chlorophyll b (mg/m3) Level=Surface
Use Result
50
40
30
20
10
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

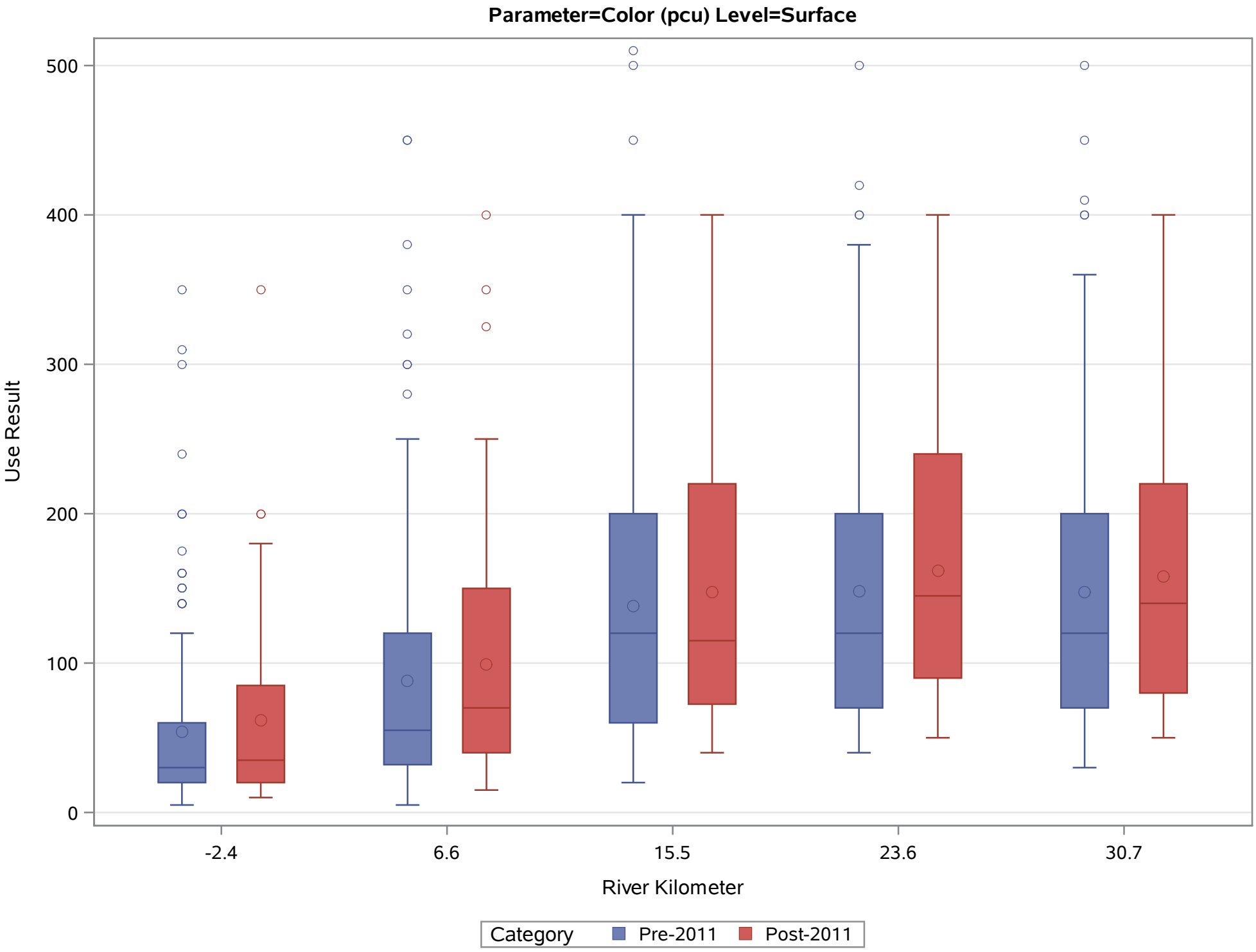

Parameter=Chlorophyll c (mg/m3) Level=Bottom
150
100
50
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

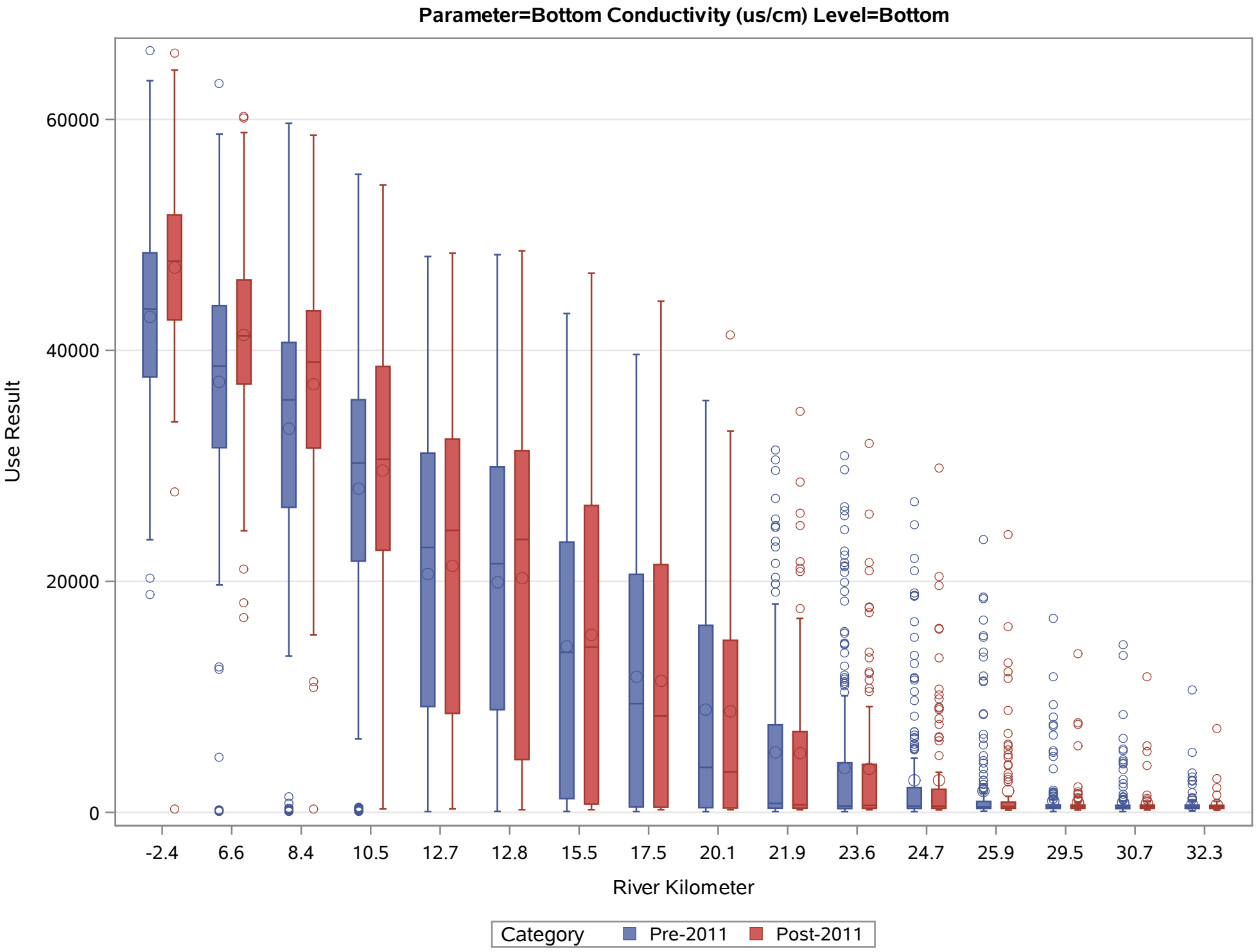

Parameter=Chlorophyll c (mg/m3) Level=Surface
250
200
150
100
50
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

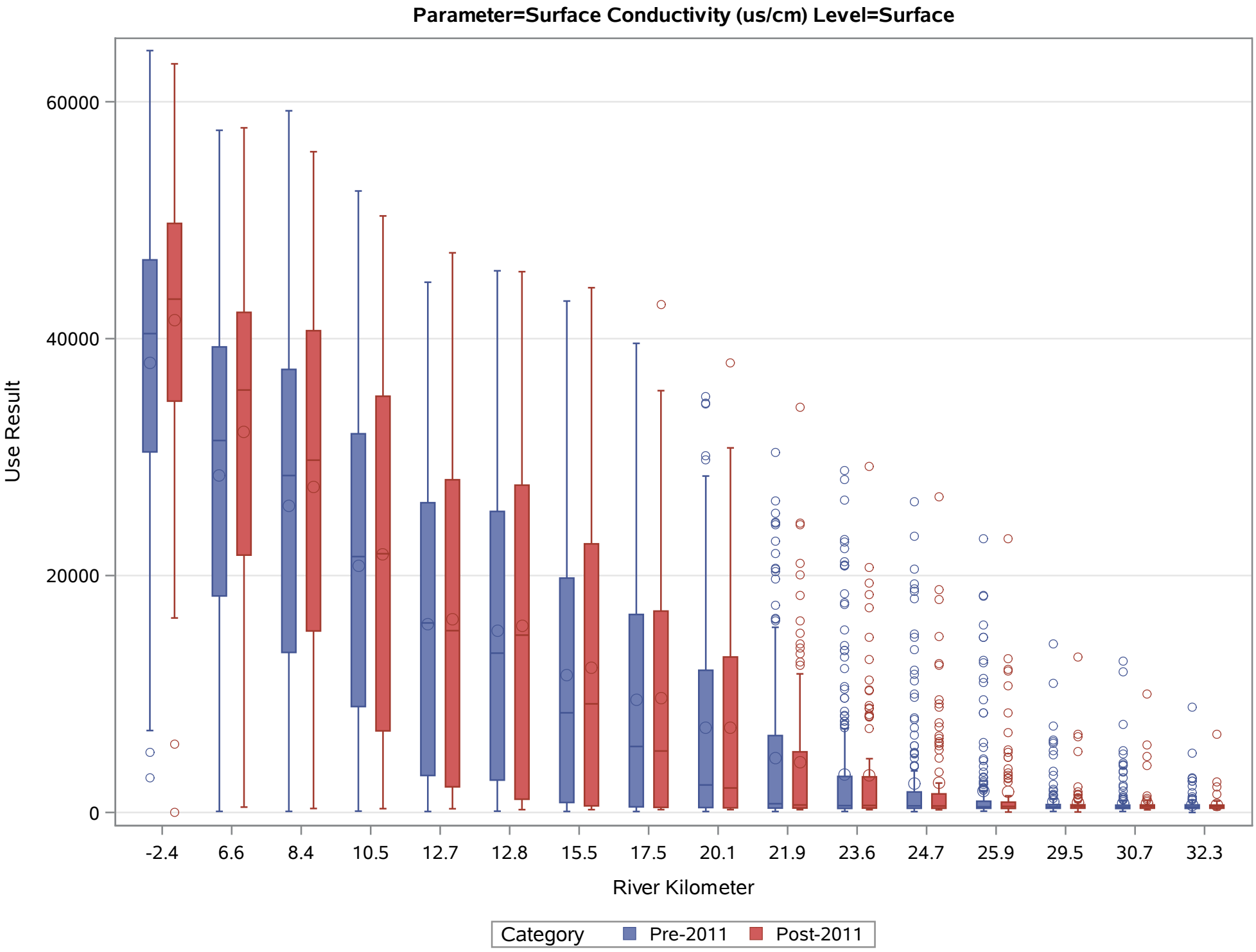

Parameter=Chloride (mg/L) Level=Bottom
Use Result
25000
20000
15000
10000
5000
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

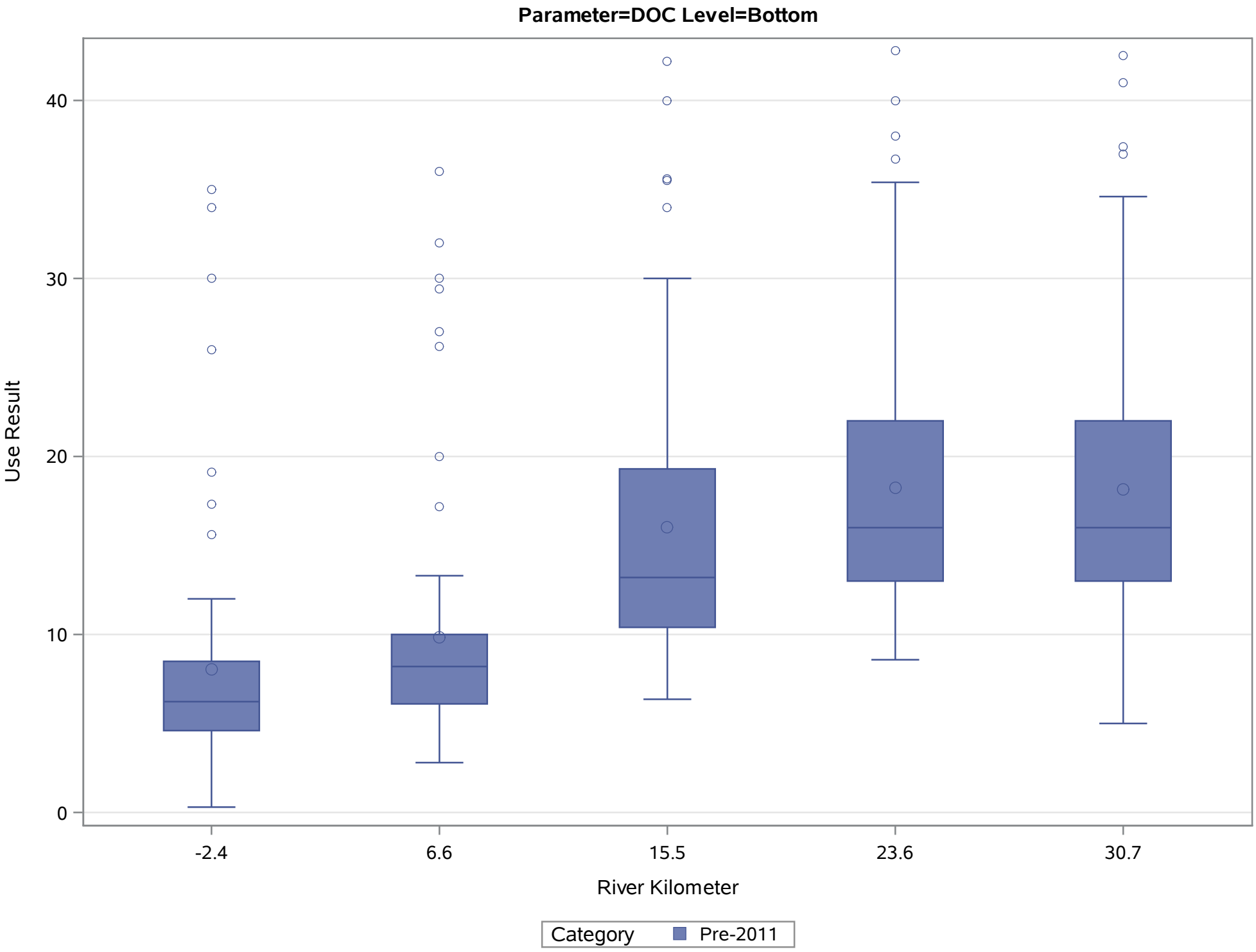

Parameter=Chloride (mg/L) Level=Surface
25000
20000
15000
10000
5000
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

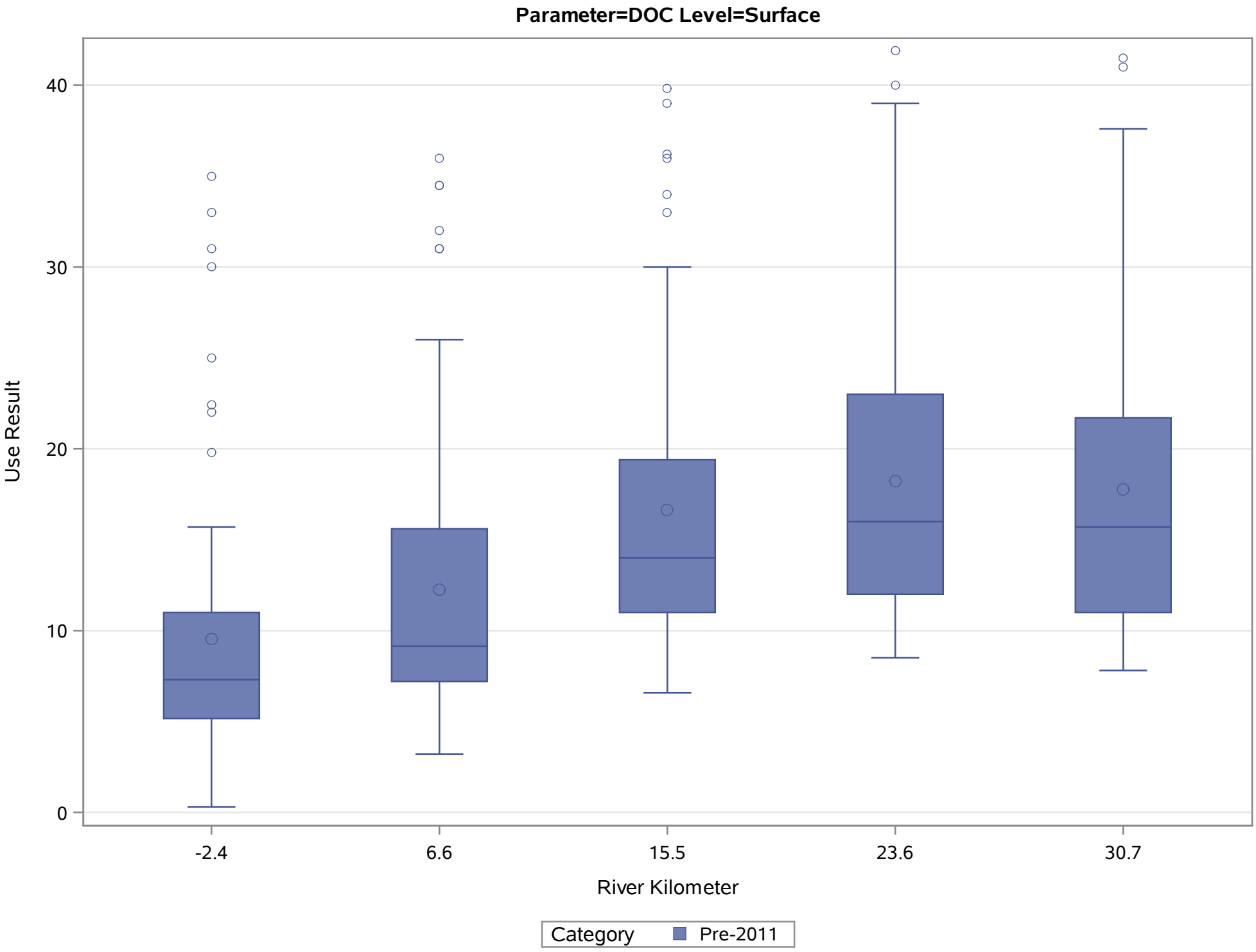

Parameter=Color (pcu) Level=Bottom
500
400
300
200
100
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

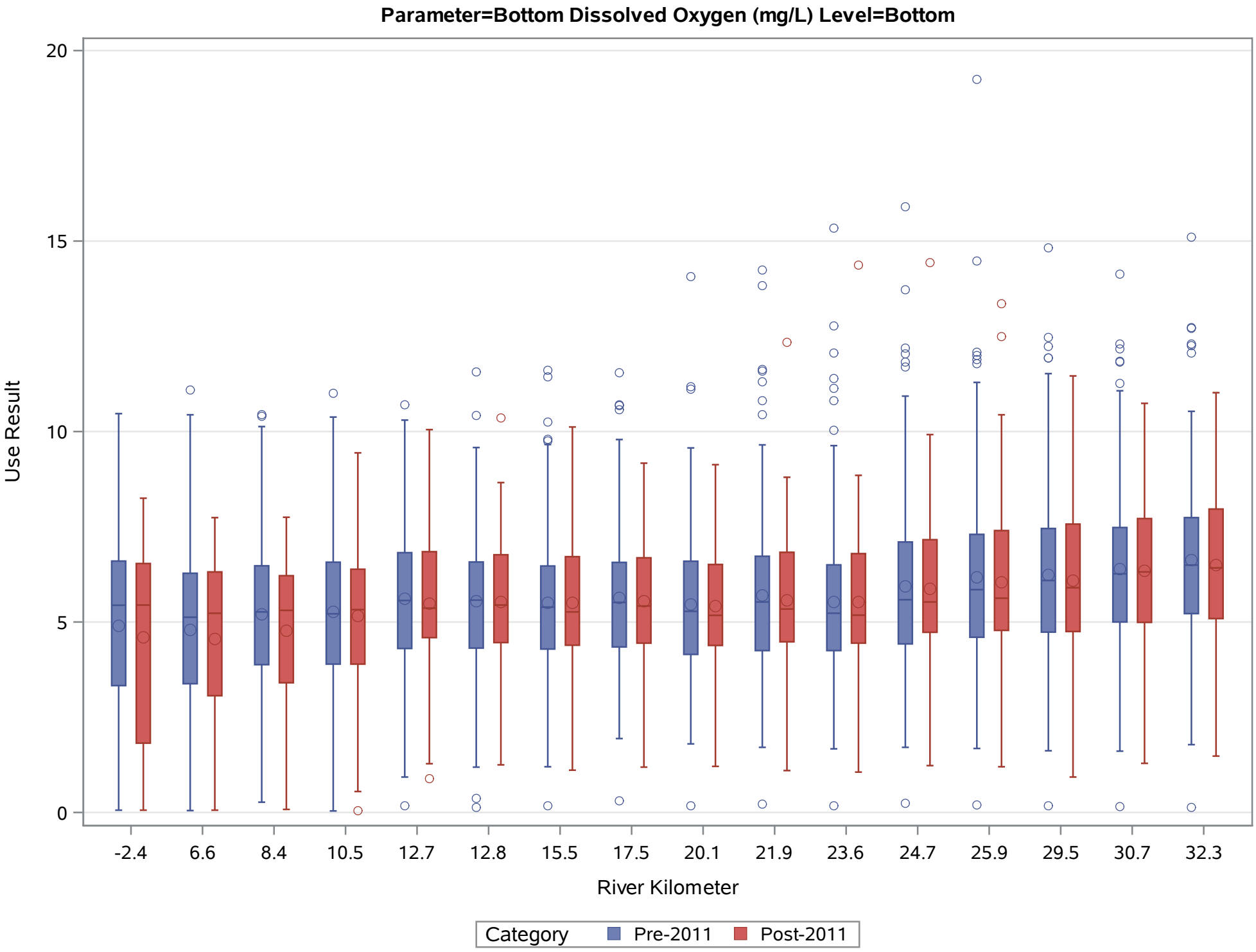

Parameter=Color (pcu) Level=Surface
Use Result
500
400
300
200
100
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

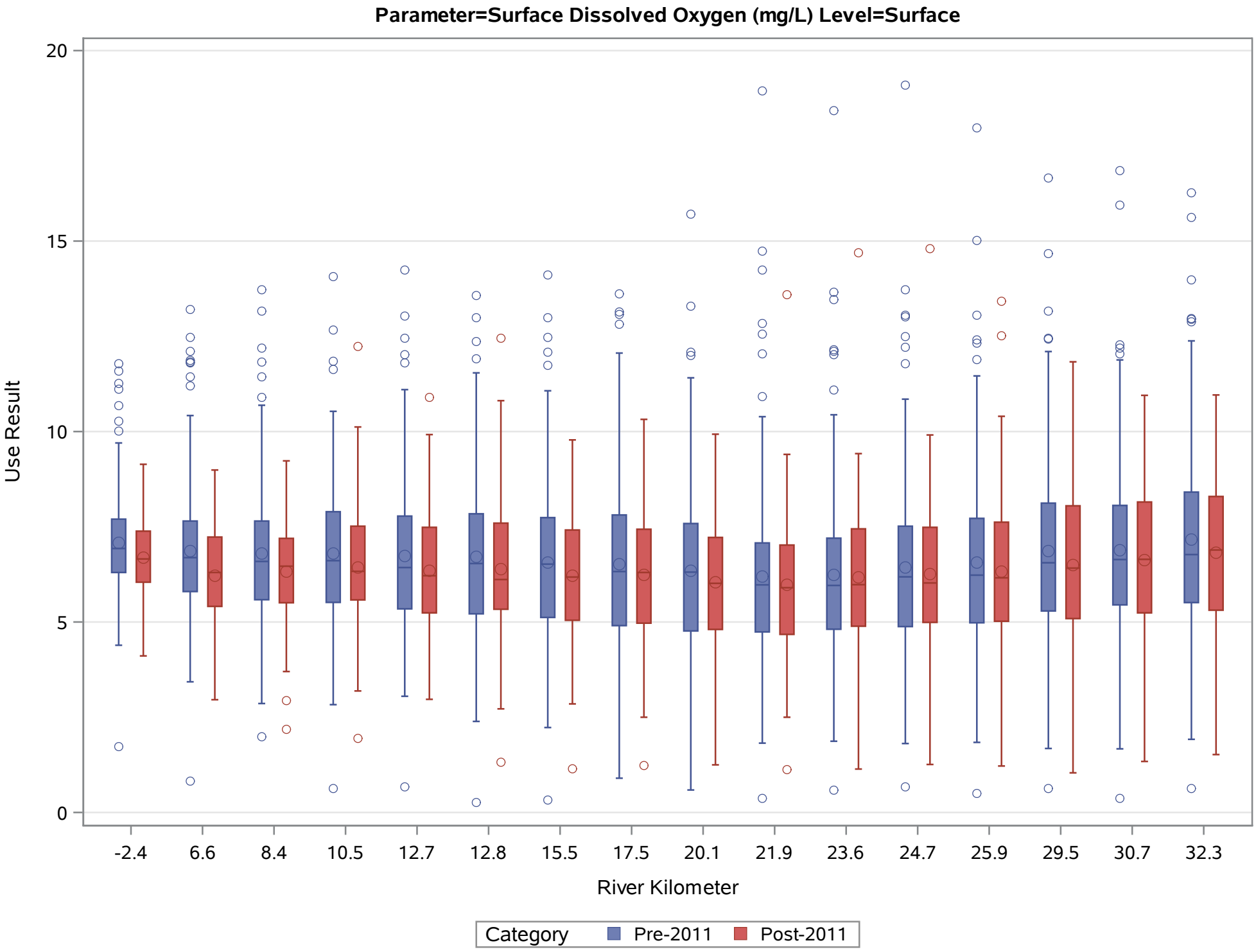

Parameter=Bottom Conductivity (us/cm) Level=Bottom
Use Result
60000
40000
20000
0
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

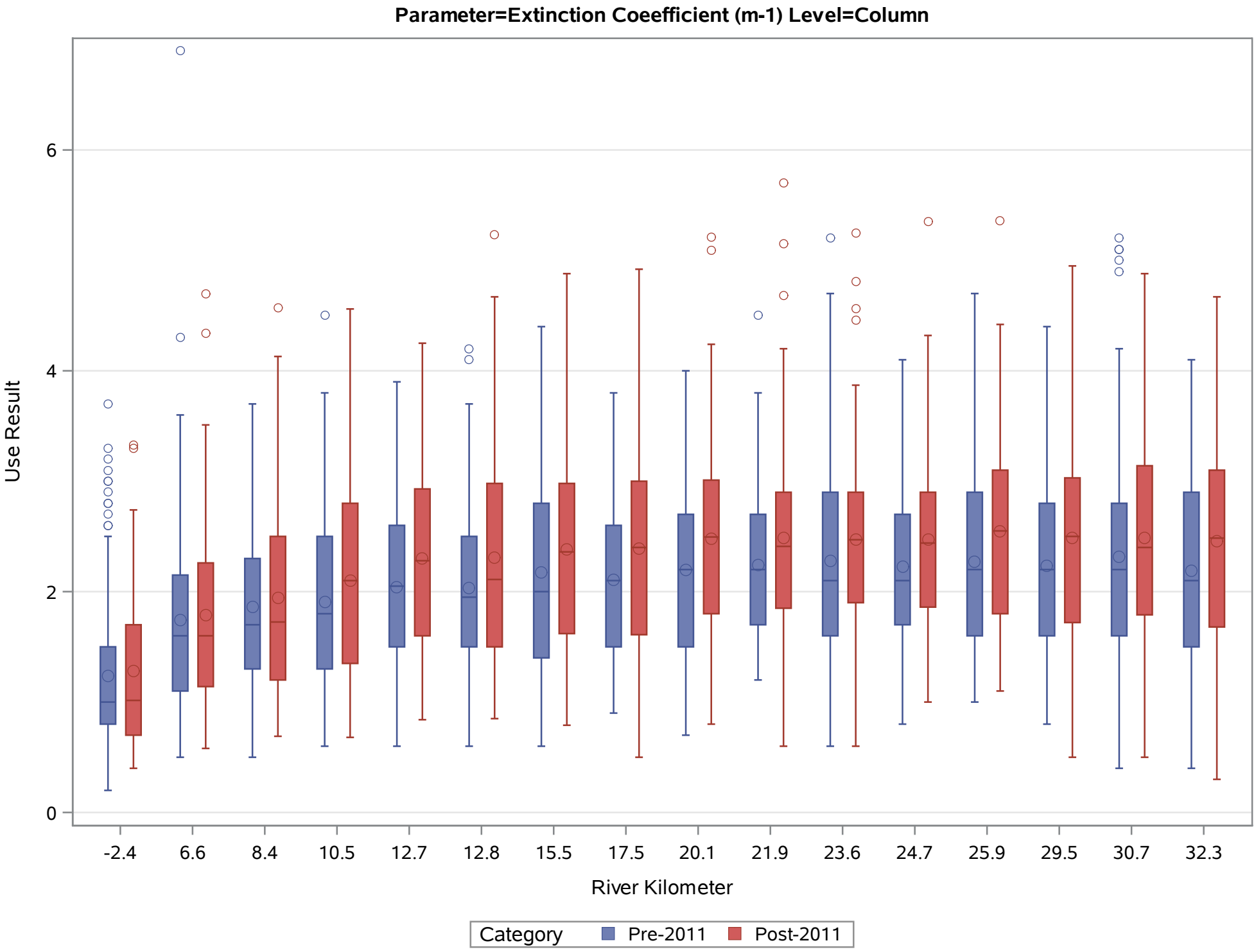

Parameter=Surface Conductivity (us/cm) Level=Surface
60000
40000
20000
0
Use Result
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

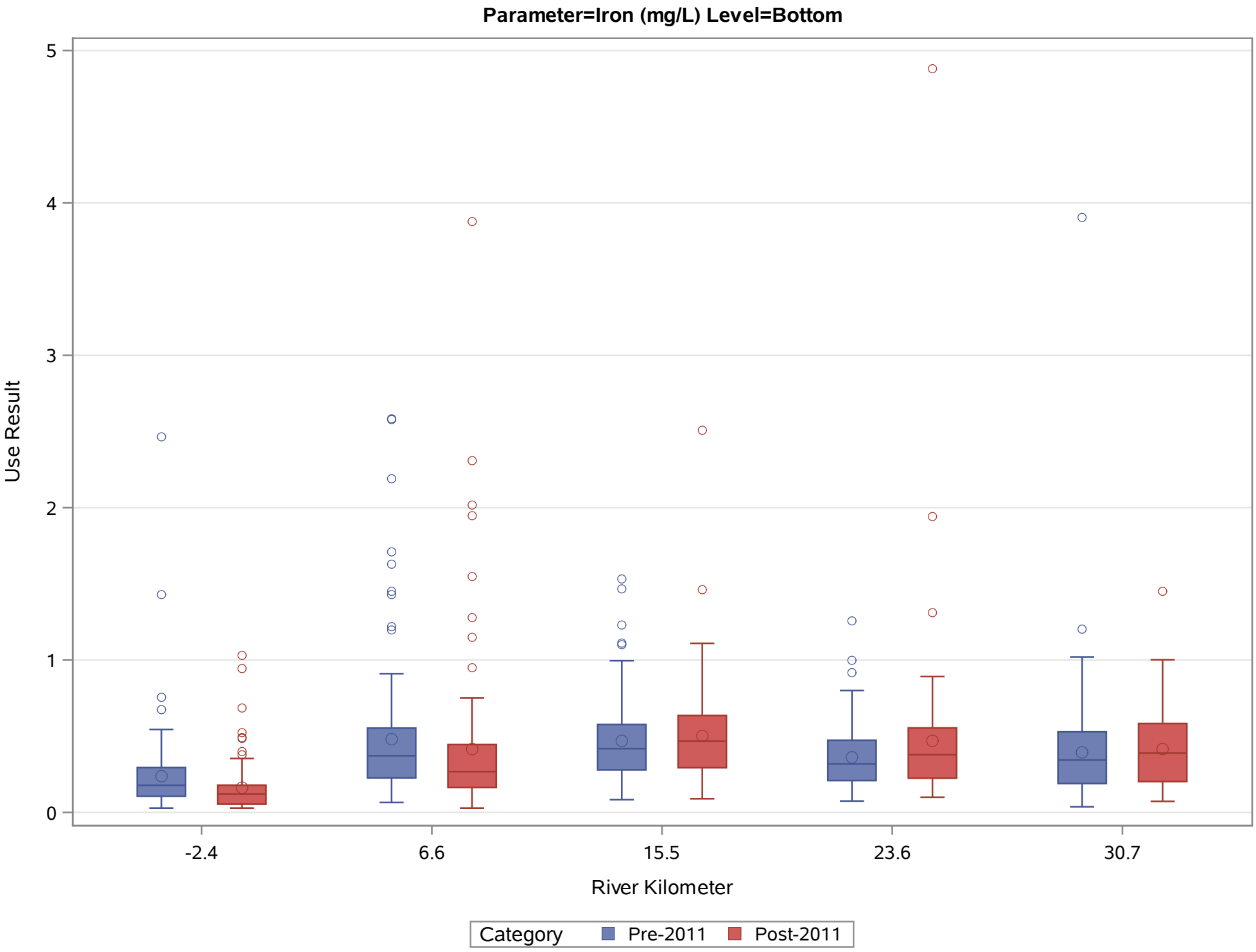

Parameter=DOC Level=Bottom
Use Result
0
10
20
30
40
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

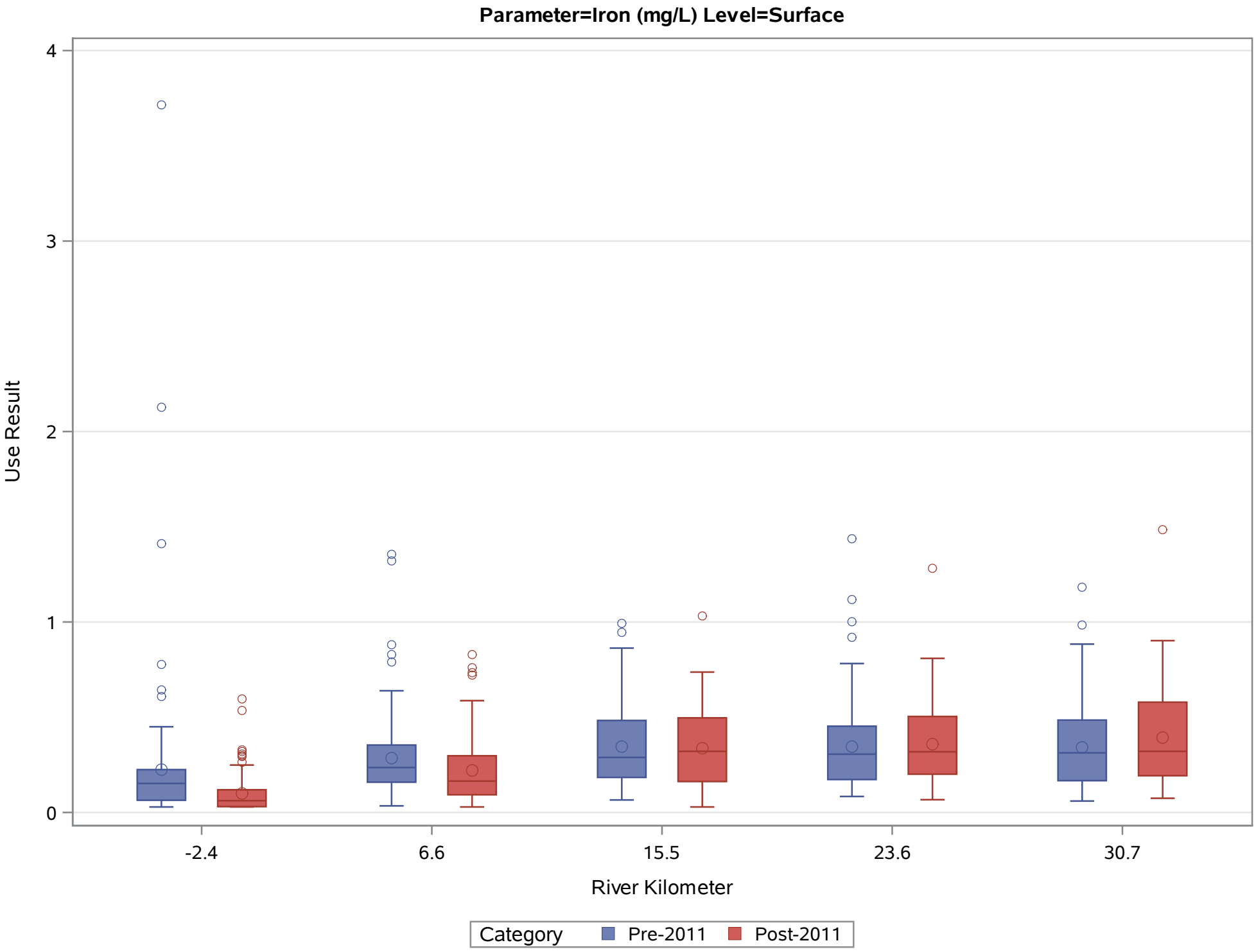

Parameter=DOC Level=Surface
Use Result
40
30
20
10
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

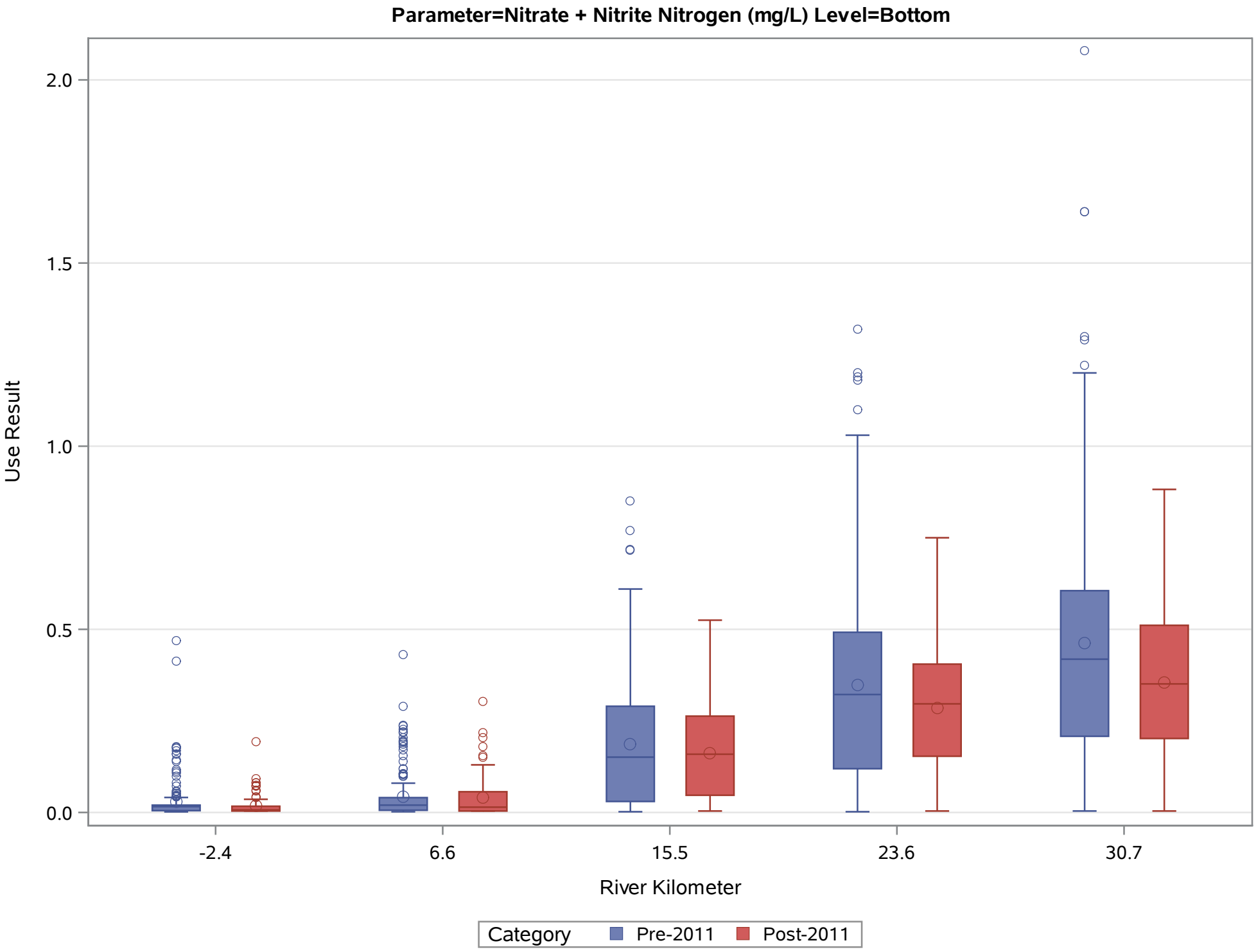

Parameter=Bottom Dissolved Oxygen (mg/L) Level=Bottom
Use Result
20
15
10
5
0
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

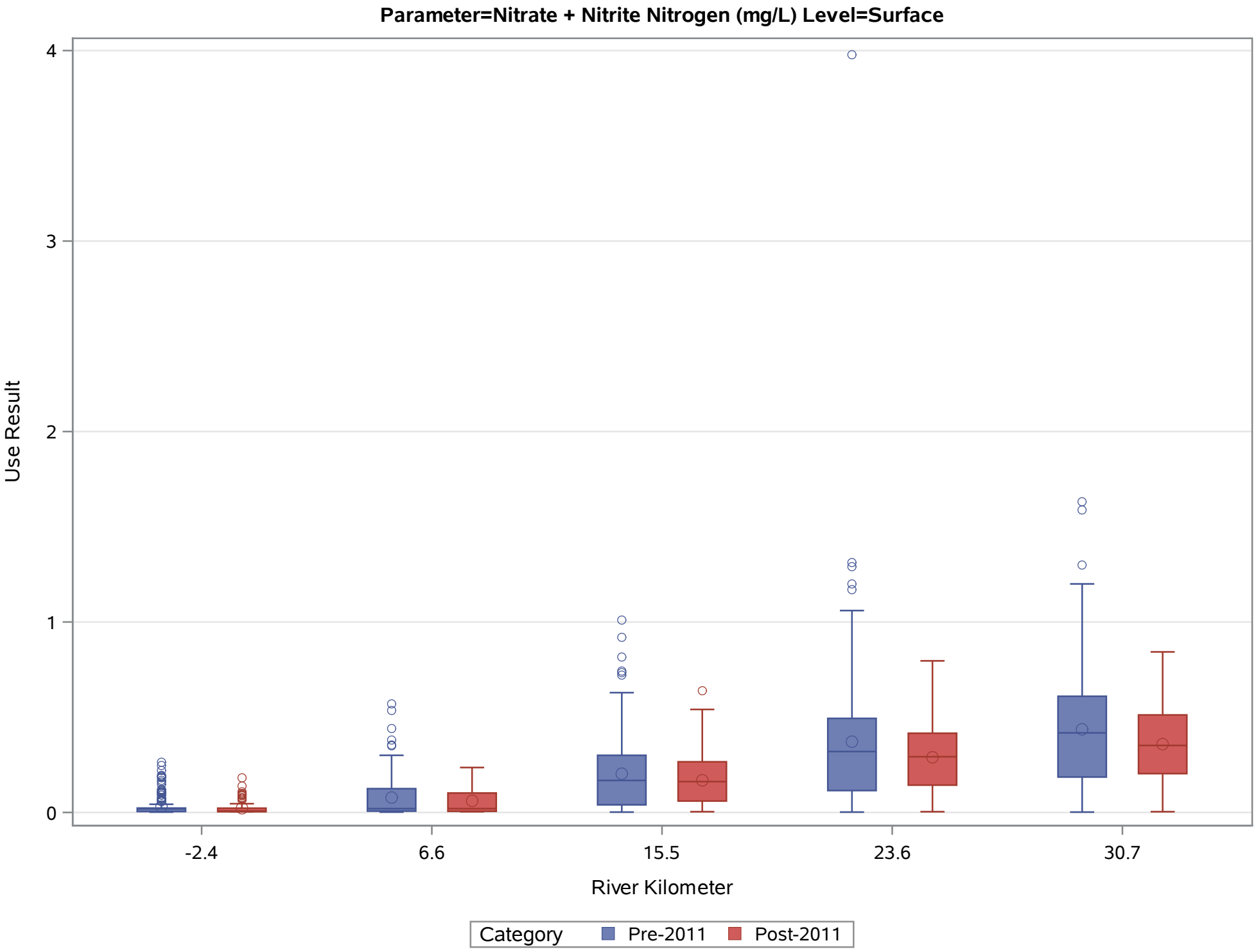

Parameter=Surface Dissolved Oxygen (mg/L) Level=Surface
Use Result
20
15
10
5
0
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

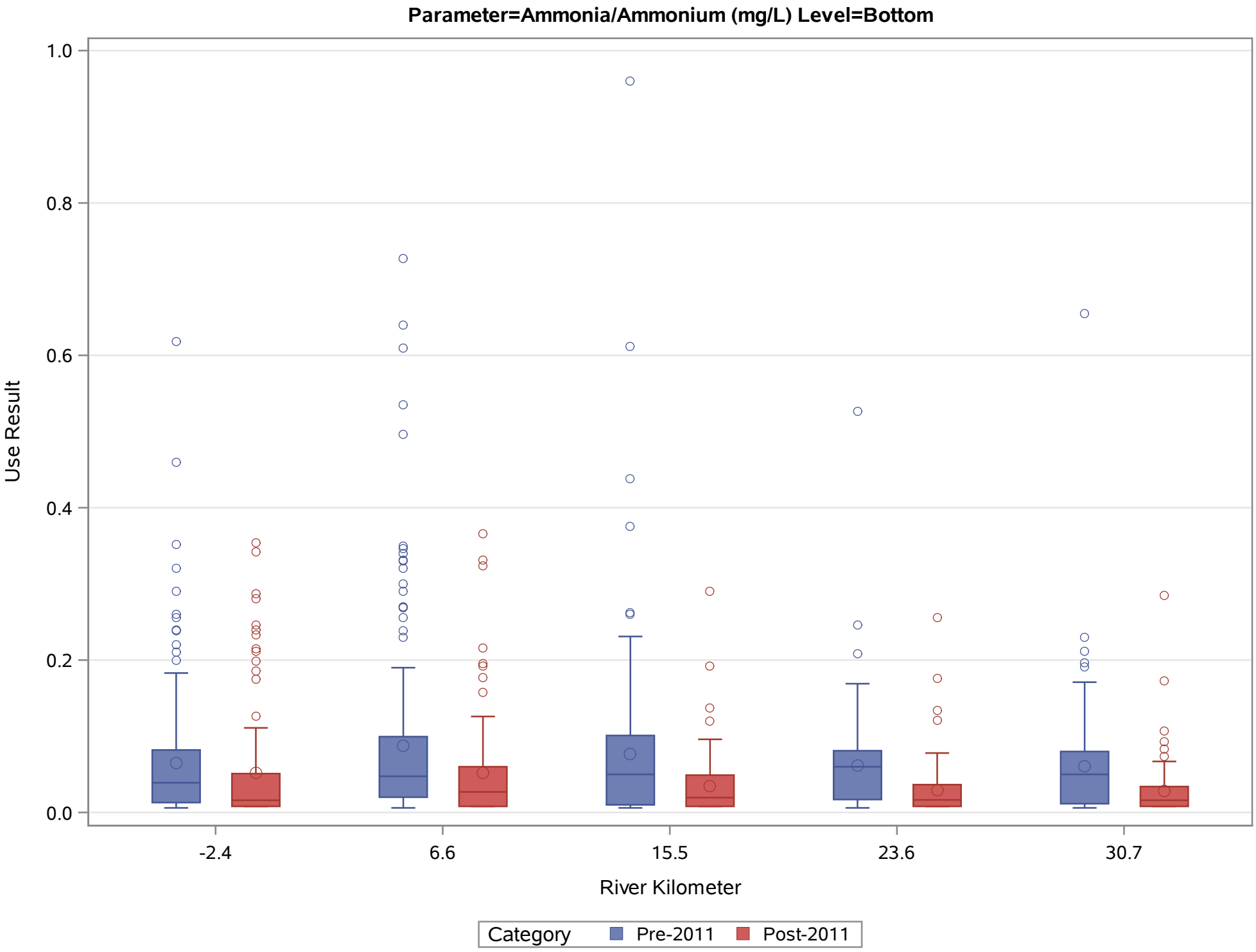

Parameter=Extinction Coeefficient (m-1) Level=Column
Use Result
0
2
4
6
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

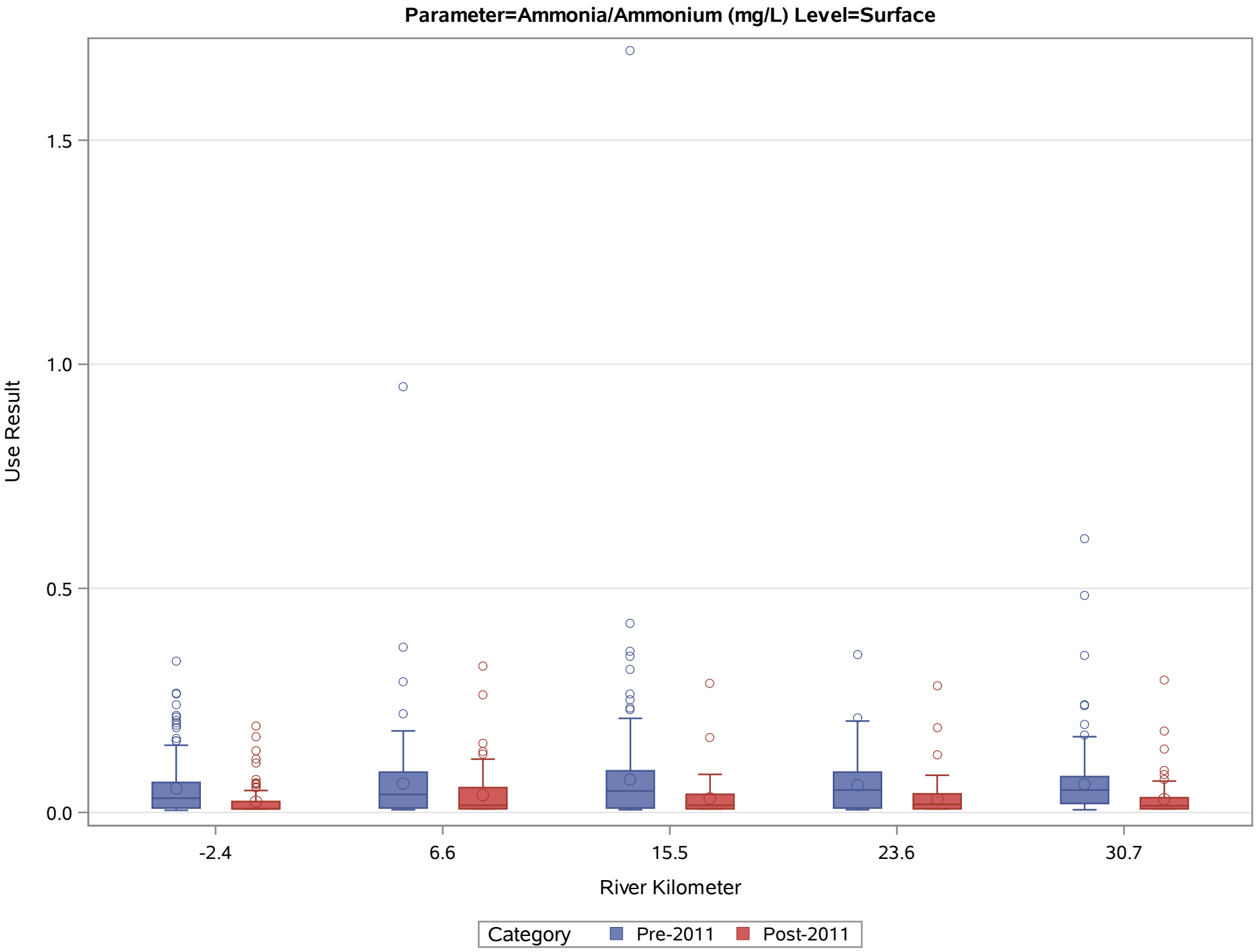

Parameter=Iron (mg/L) Level=Bottom
Use Result
5
4
3
2
1
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

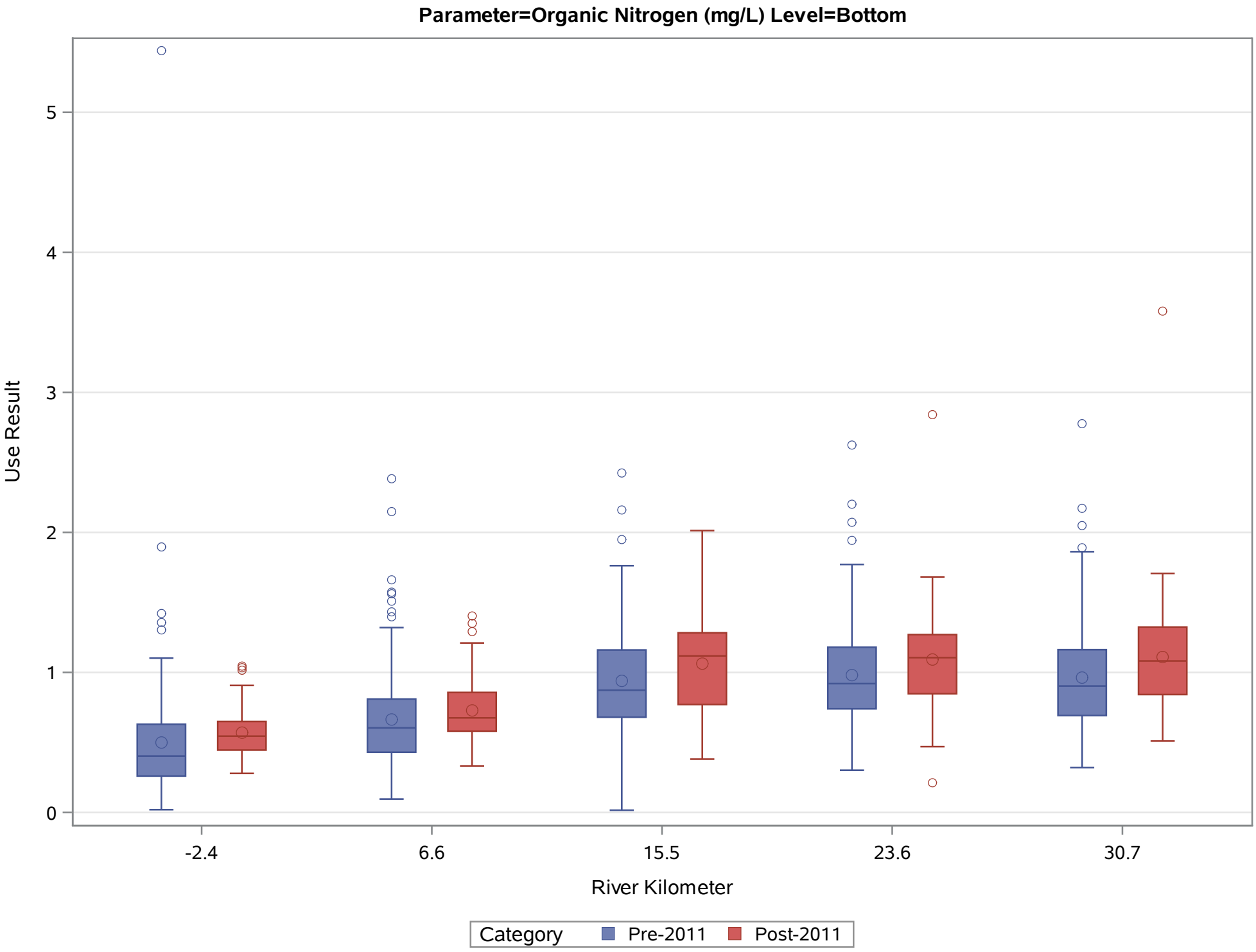

Parameter=Iron (mg/L) Level=Surface
Use Result
4
3
2
1
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

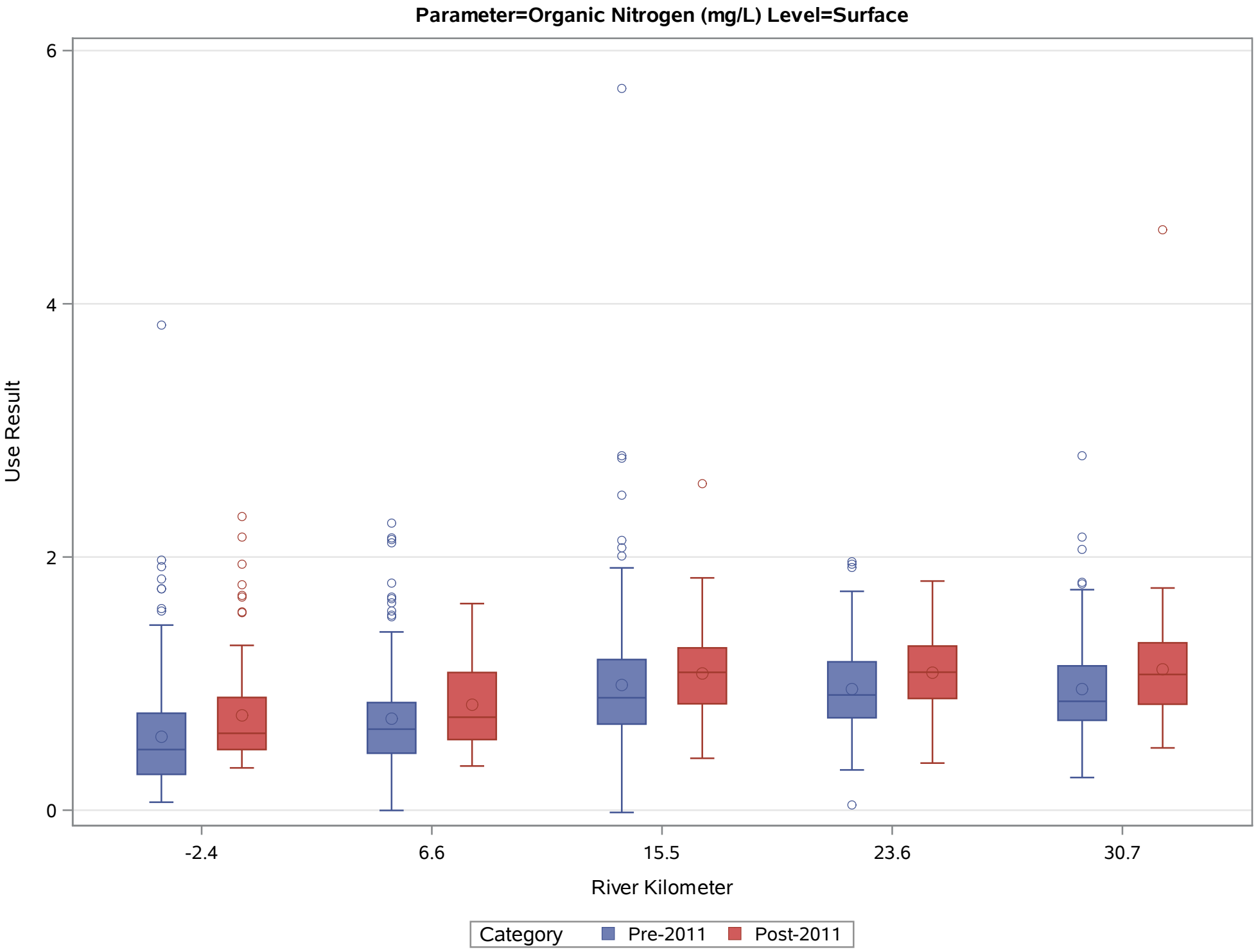

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Level=Bottom
Use Result
2.0
1.5
1.0
0.5
0.0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

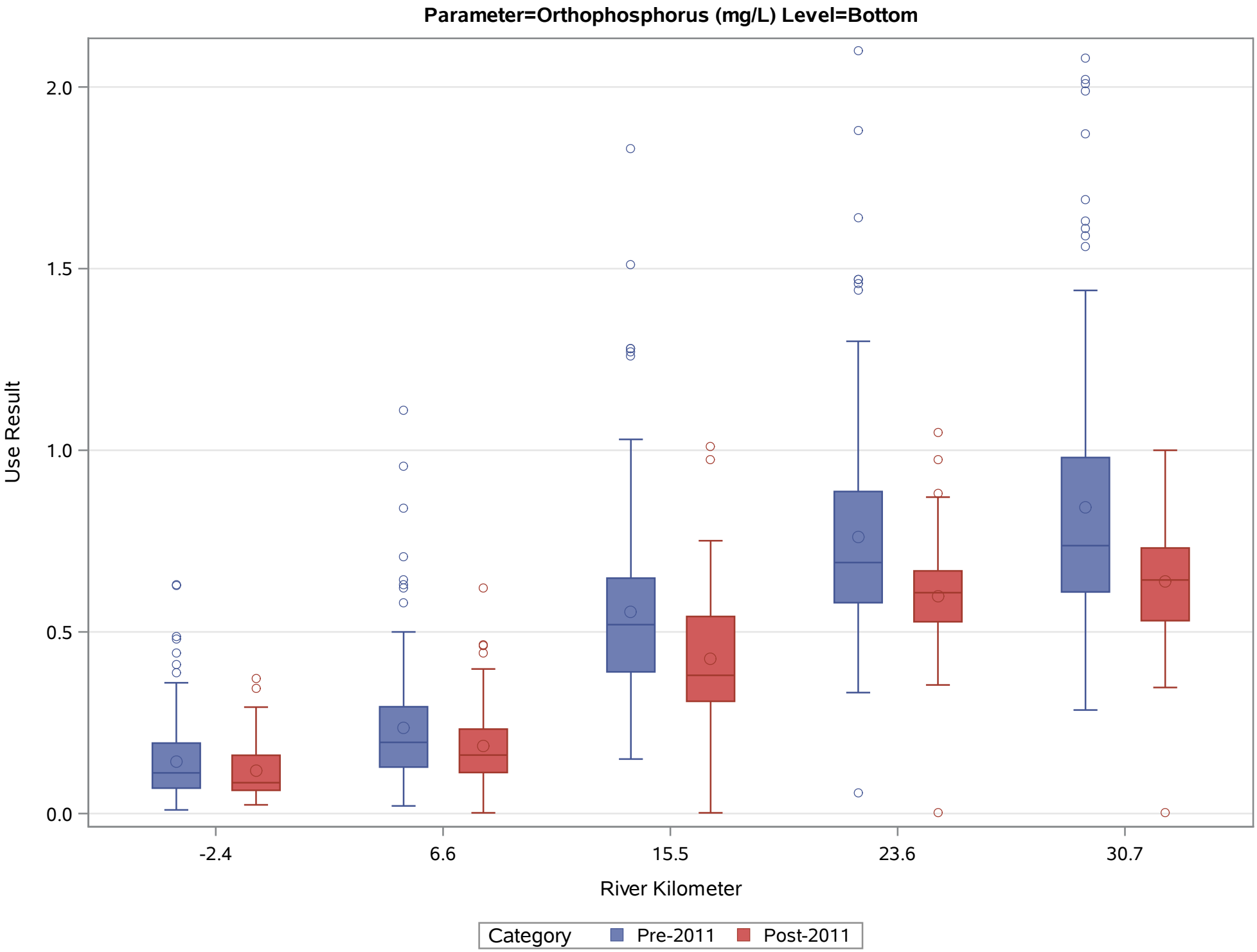

Parameter=Nitrate + Nitrite Nitrogen (mg/L) Level=Surface
Use Result
4
3
2
1
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

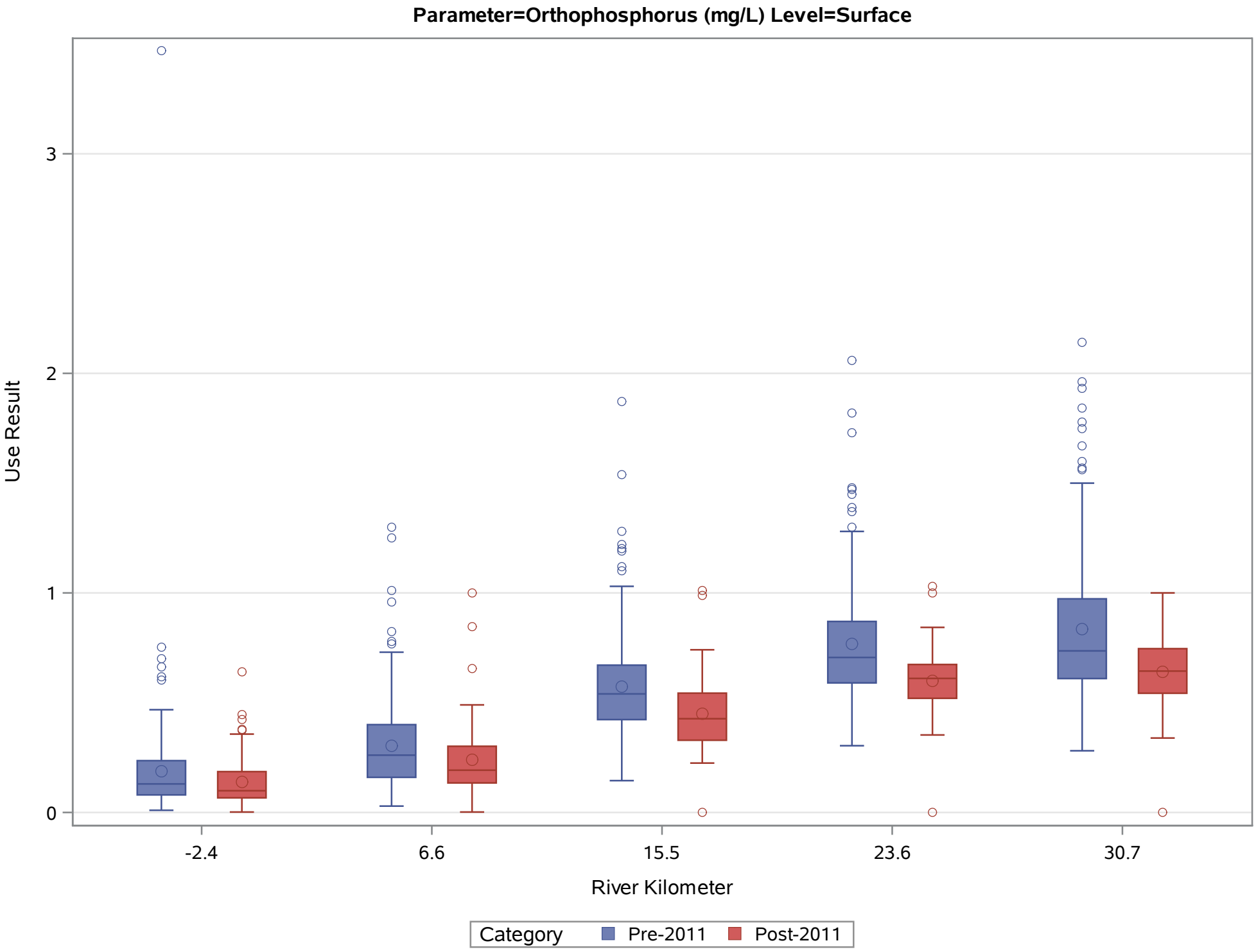

Parameter=Ammonia/Ammonium (mg/L) Level=Bottom
1.0
0.8
0.6
0.4
0.2
0.0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

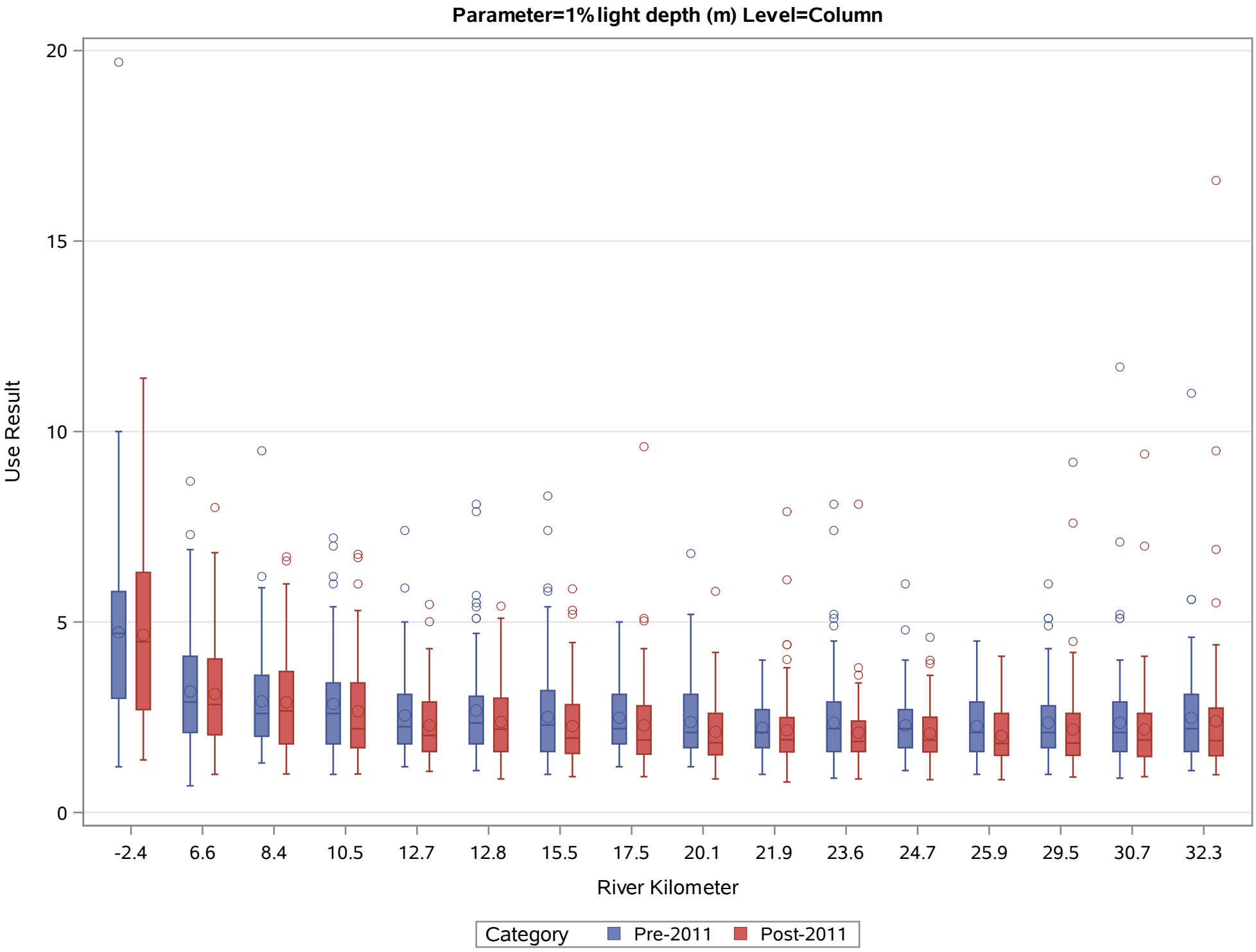

Parameter=Ammonia/Ammonium (mg/L) Level=Surface
Use Result
1.5
1.0
0.5
0.0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

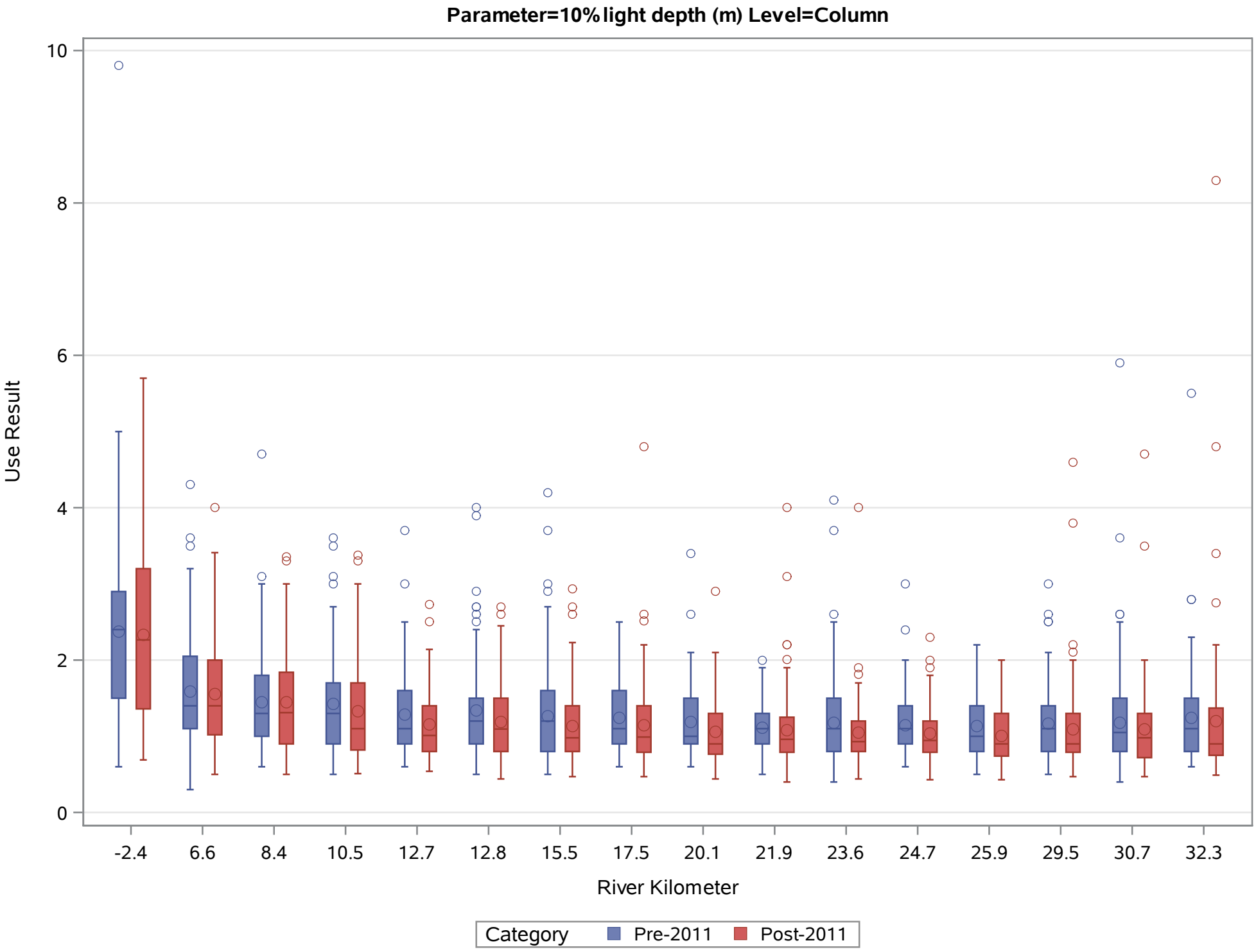

Parameter=Organic Nitrogen (mg/L) Level=Bottom
Use Result
0
1
2
3
4
5
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

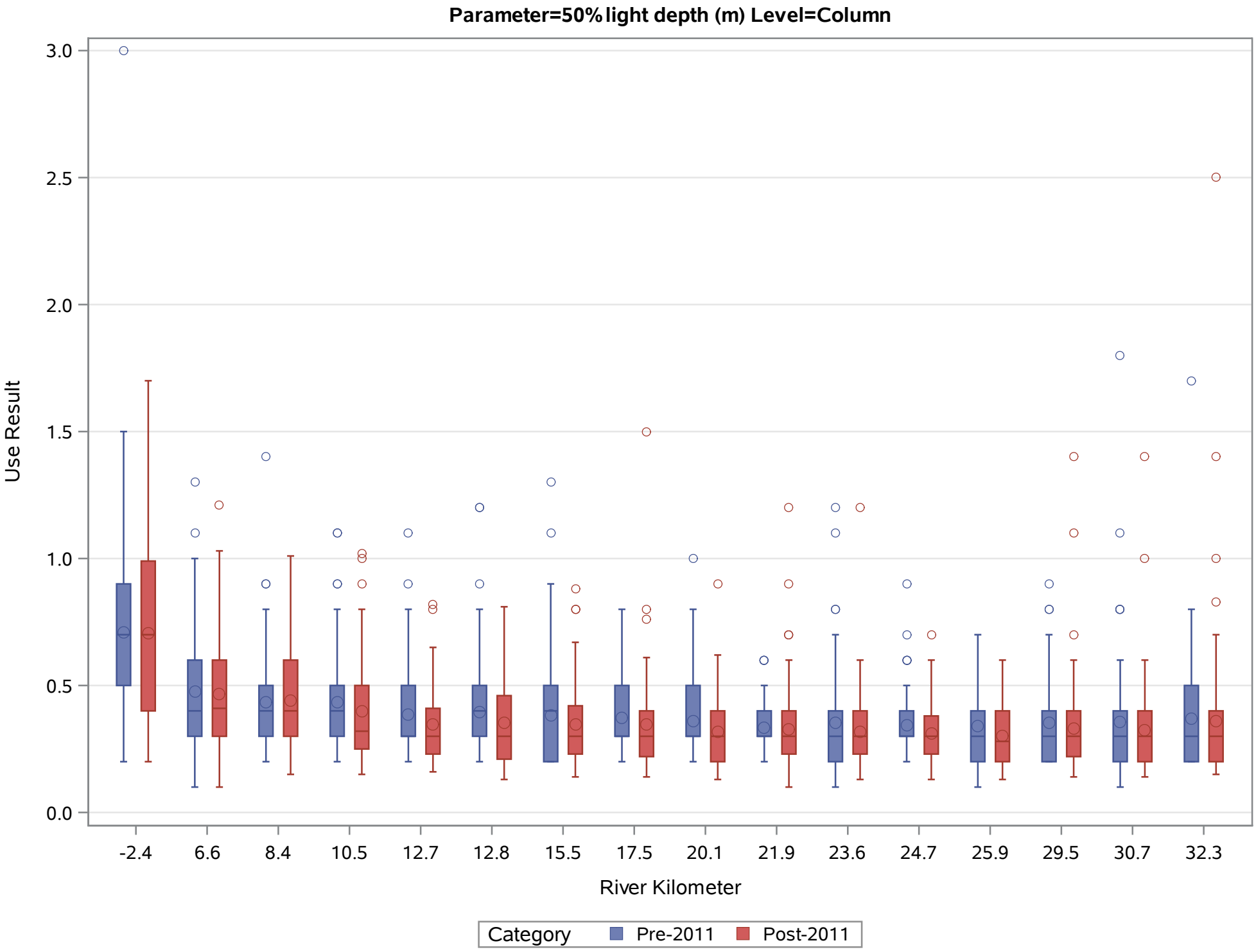

Parameter=Organic Nitrogen (mg/L) Level=Surface
Use Result
6
4
2
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

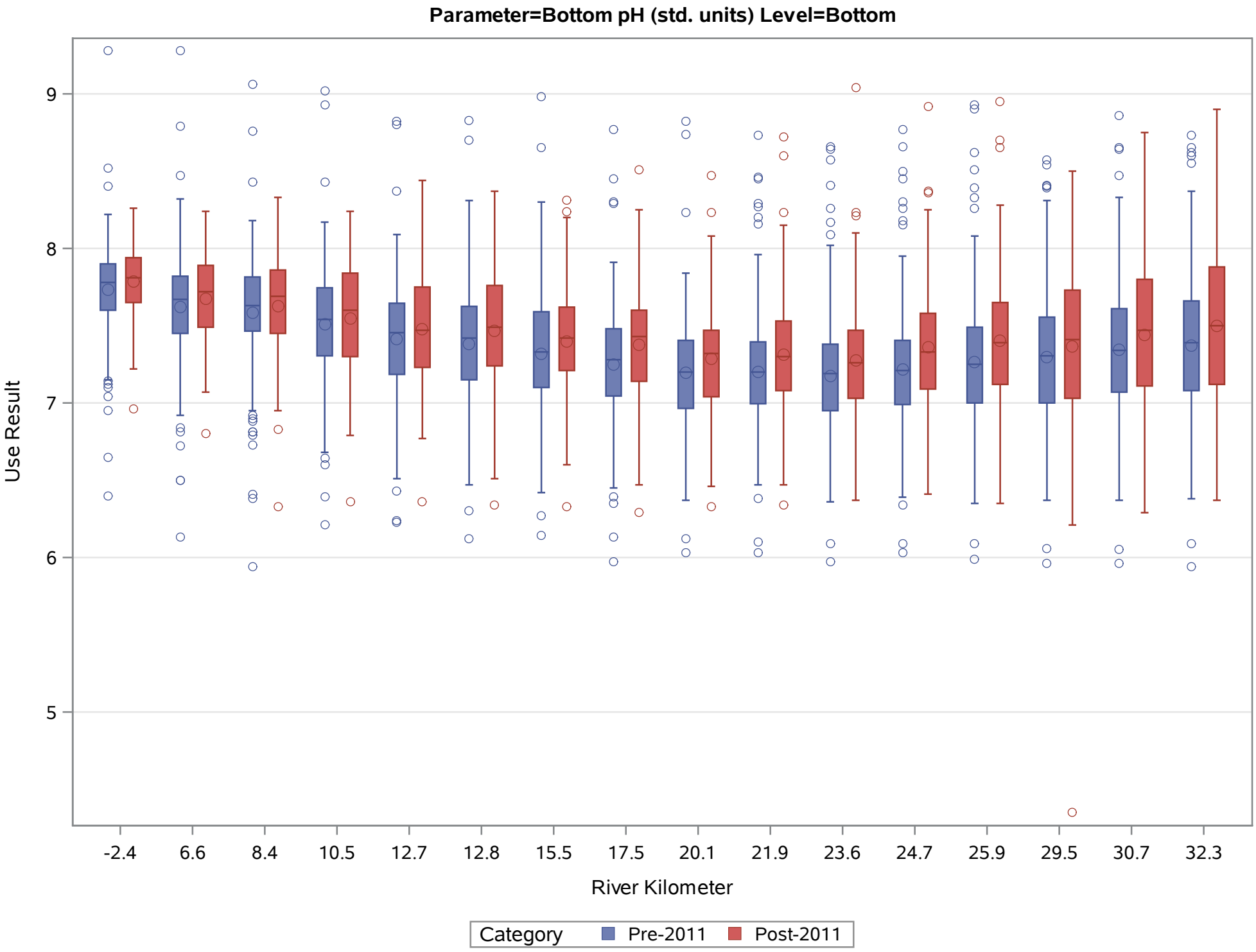

Parameter=Orthophosphorus (mg/L) Level=Bottom
Use Result
2.0
1.5
1.0
0.5
0.0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

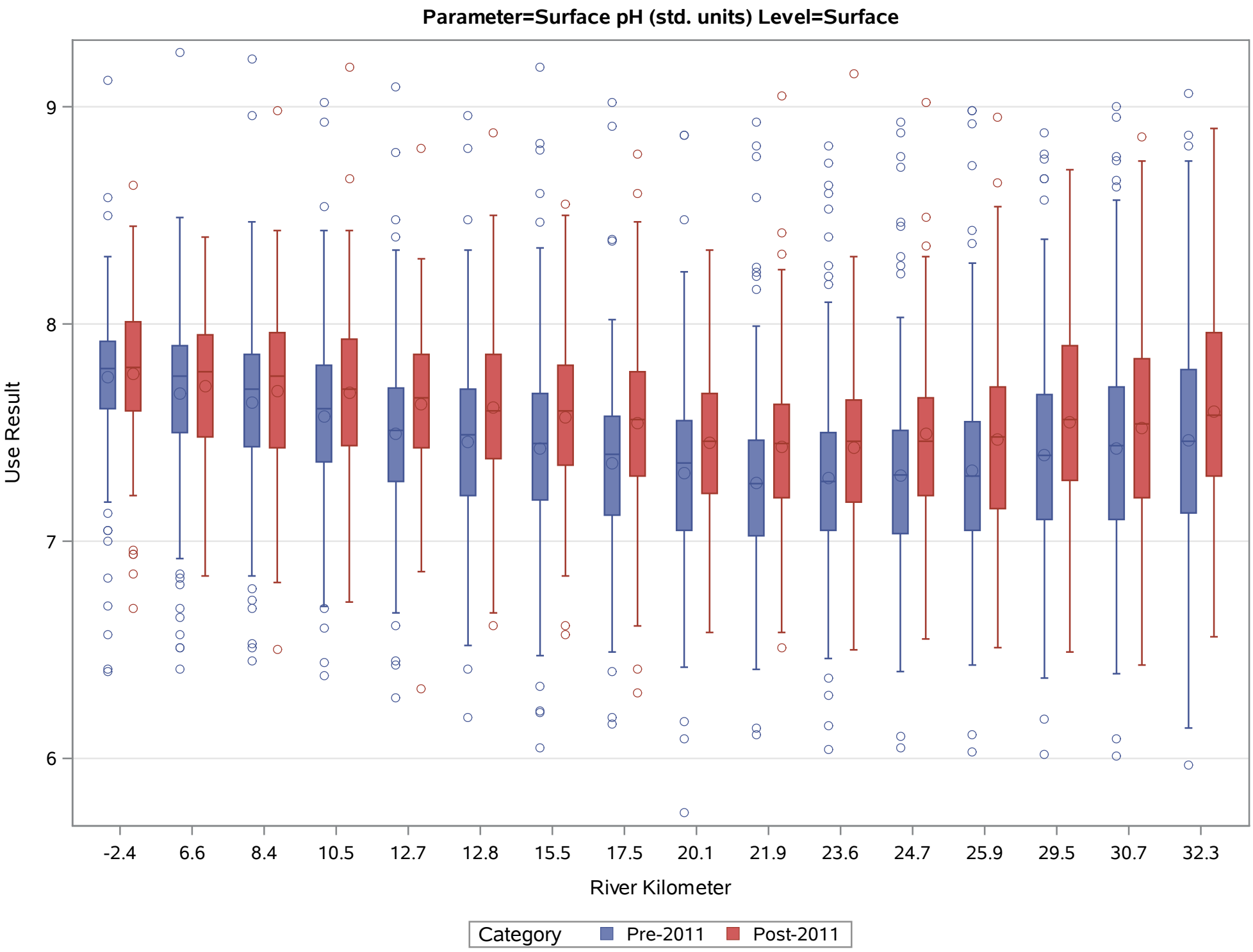

Parameter=Orthophosphorus (mg/L) Level=Surface
Use Result
3
2
1
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

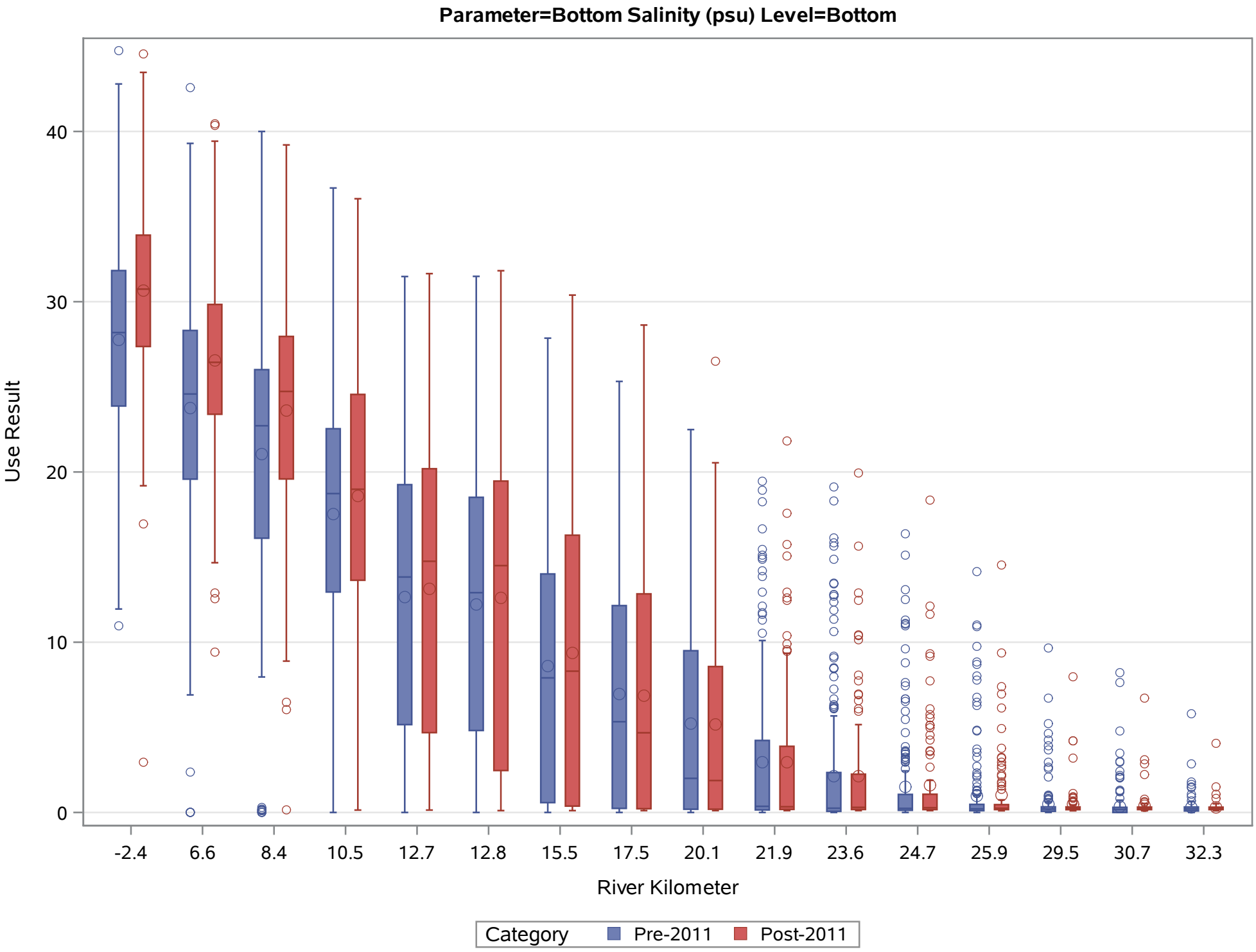

Parameter=1% light depth (m) Level=Column
Use Result
20
15
10
5
0
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

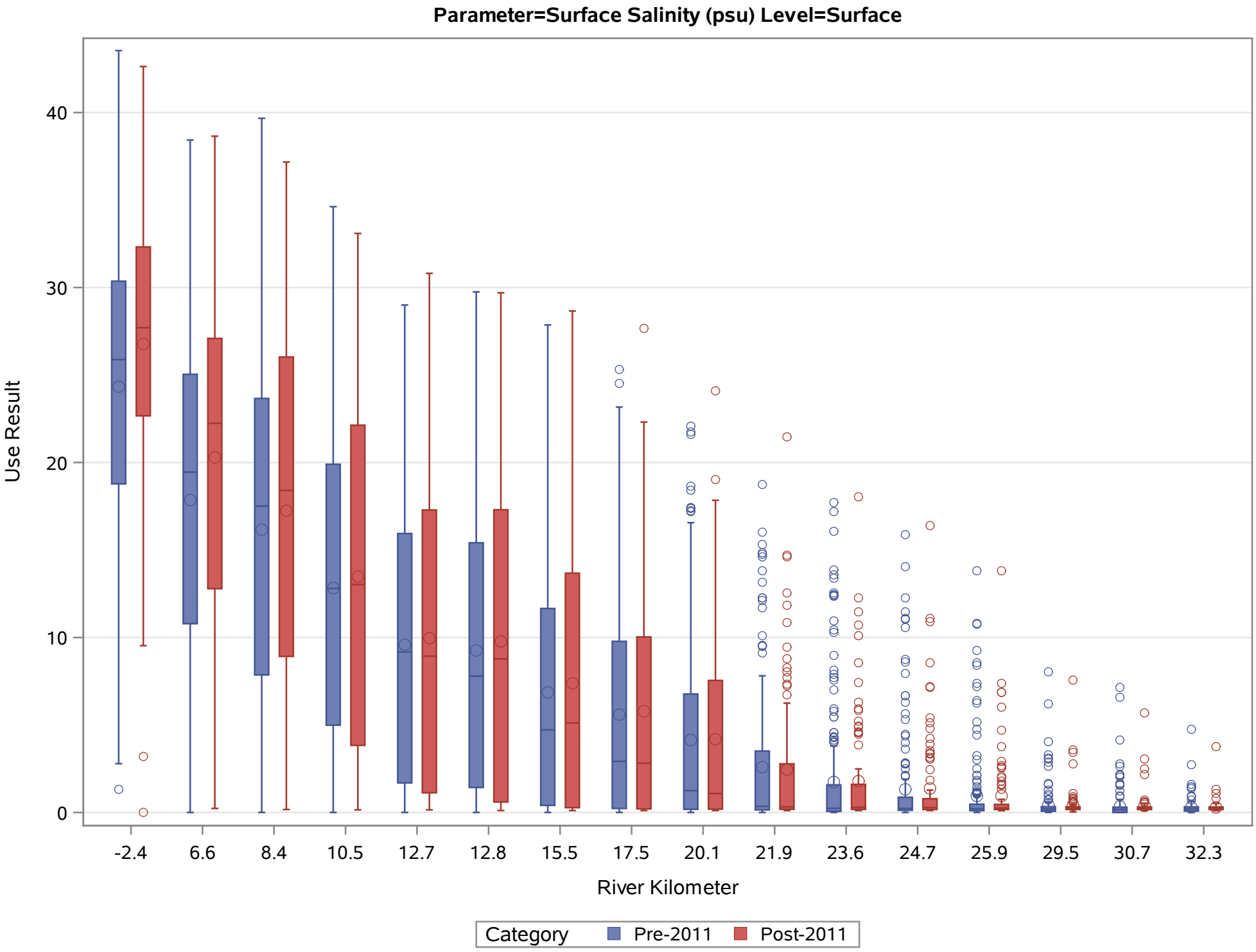

Parameter=10% light depth (m) Level=Column
Use Result
10
8
6
4
2
0
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

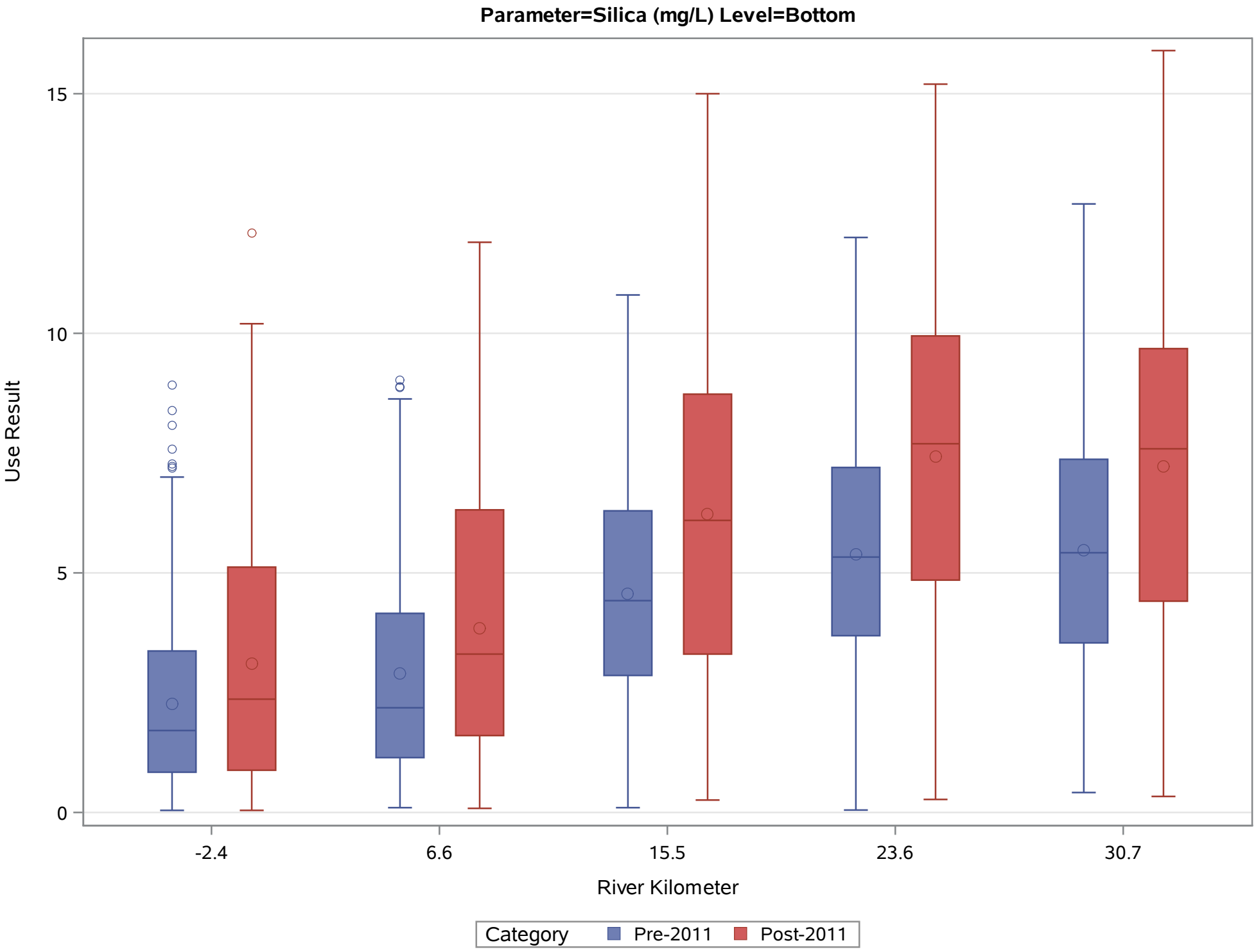

Parameter=50% light depth (m) Level=Column
Use Result
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

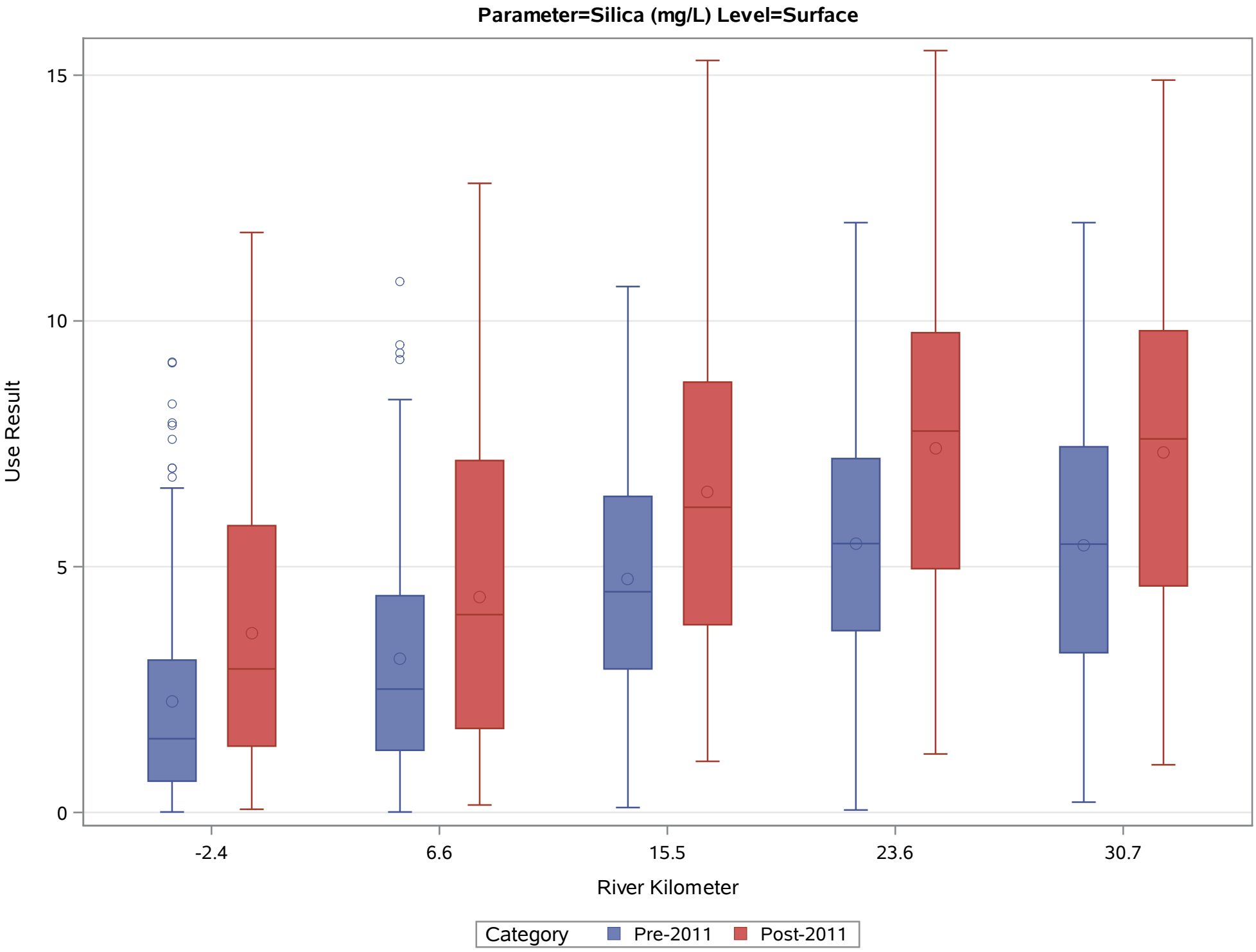

Parameter=Bottom pH (std. units) Level=Bottom
Use Result
9
8
7
6
5
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

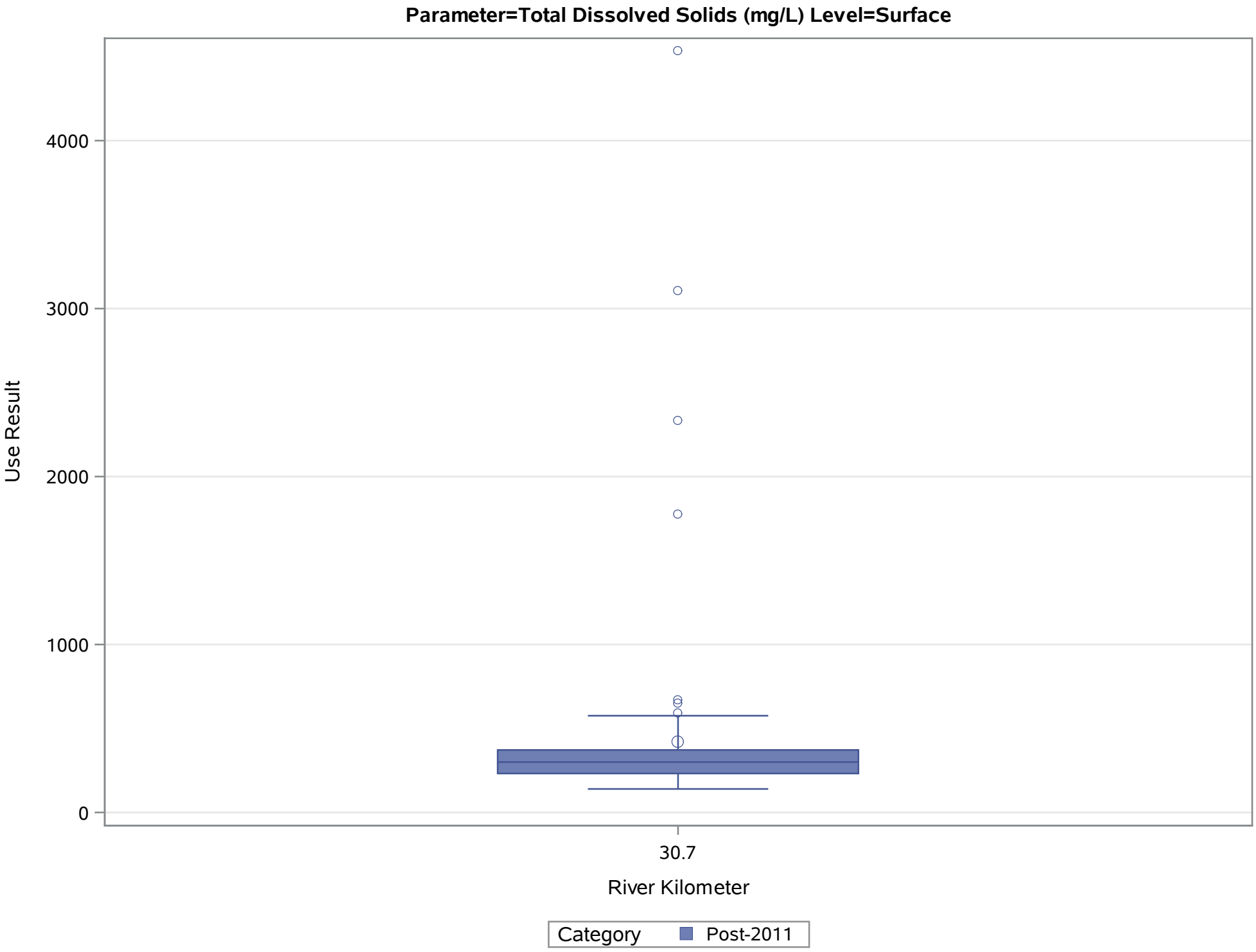

Parameter=Surface pH (std. units) Level=Surface
Use Result
9
8
7
6
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

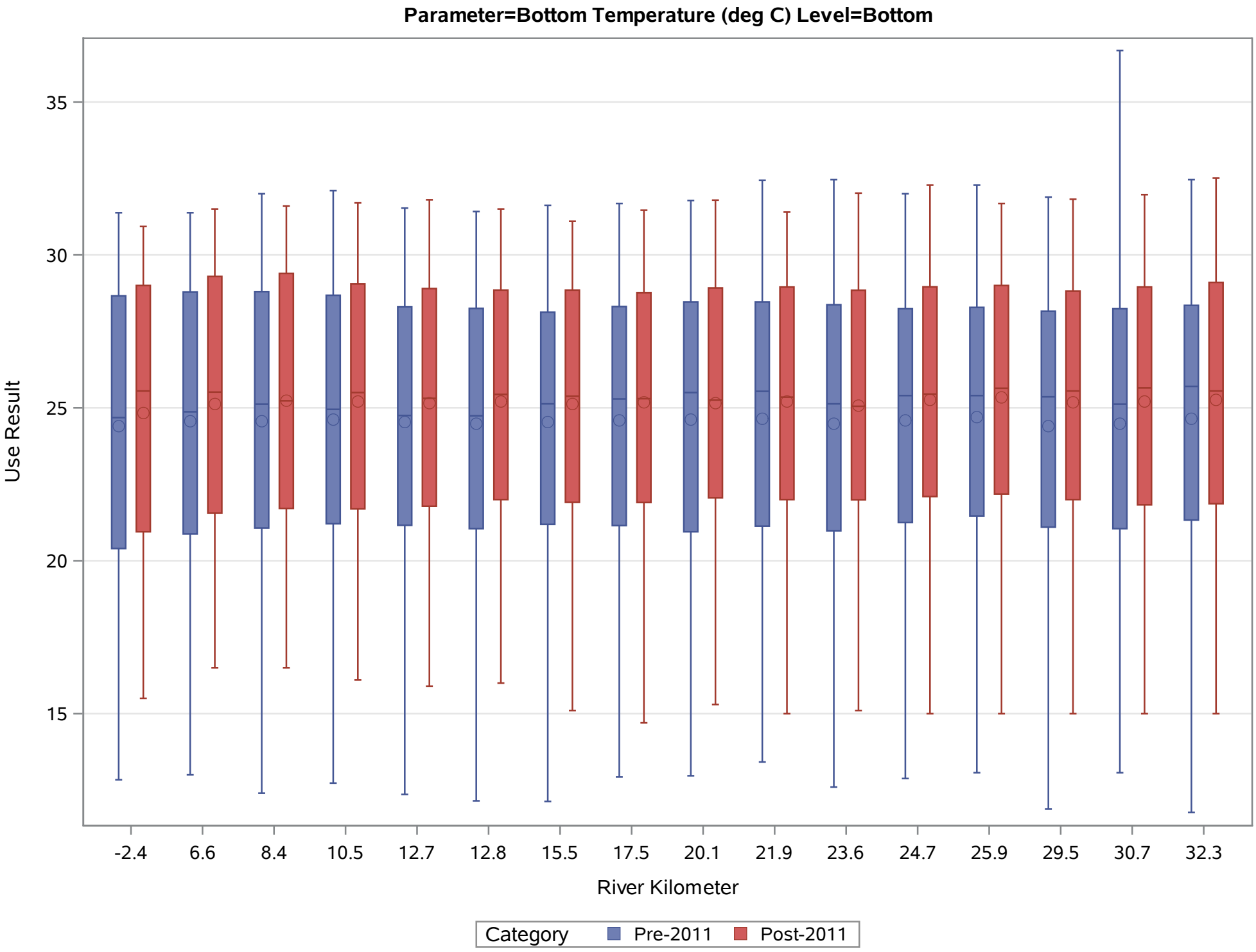

Parameter=Bottom Salinity (psu) Level=Bottom
Use Result
0
10
20
30
40
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

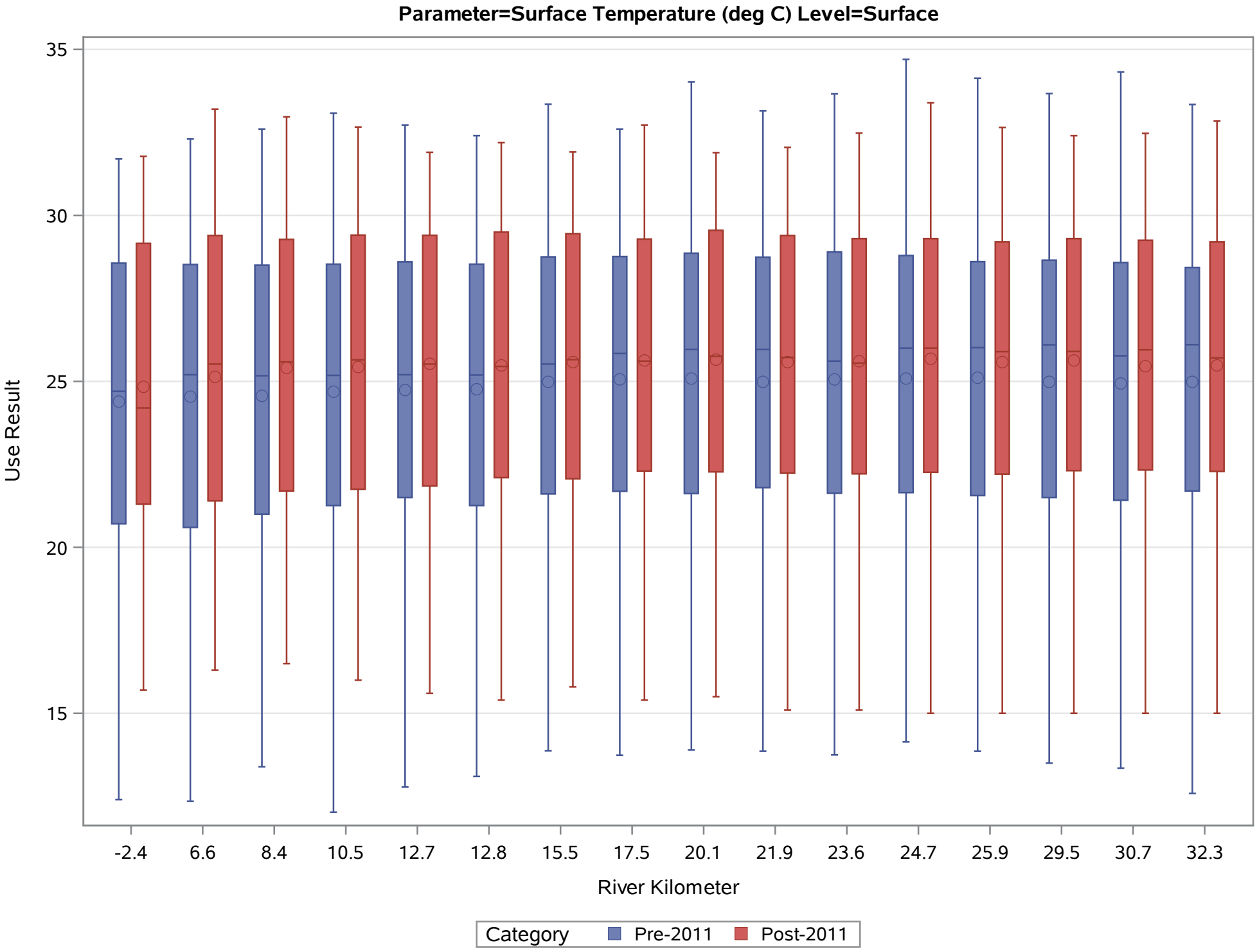

Parameter=Surface Salinity (psu) Level=Surface
Use Result
0
10
20
30
40
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

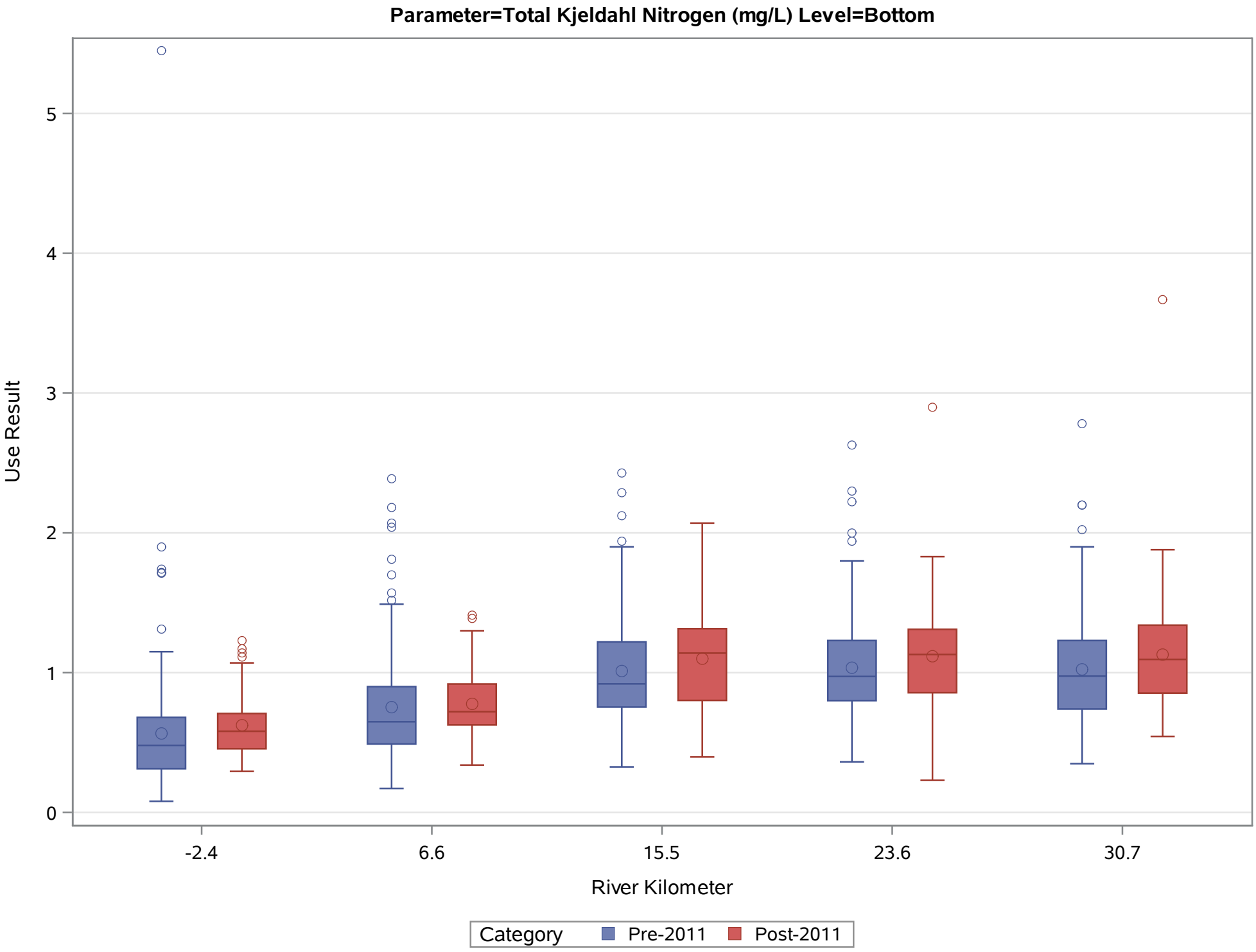

Parameter=Silica (mg/L) Level=Bottom
Use Result
15
10
5
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

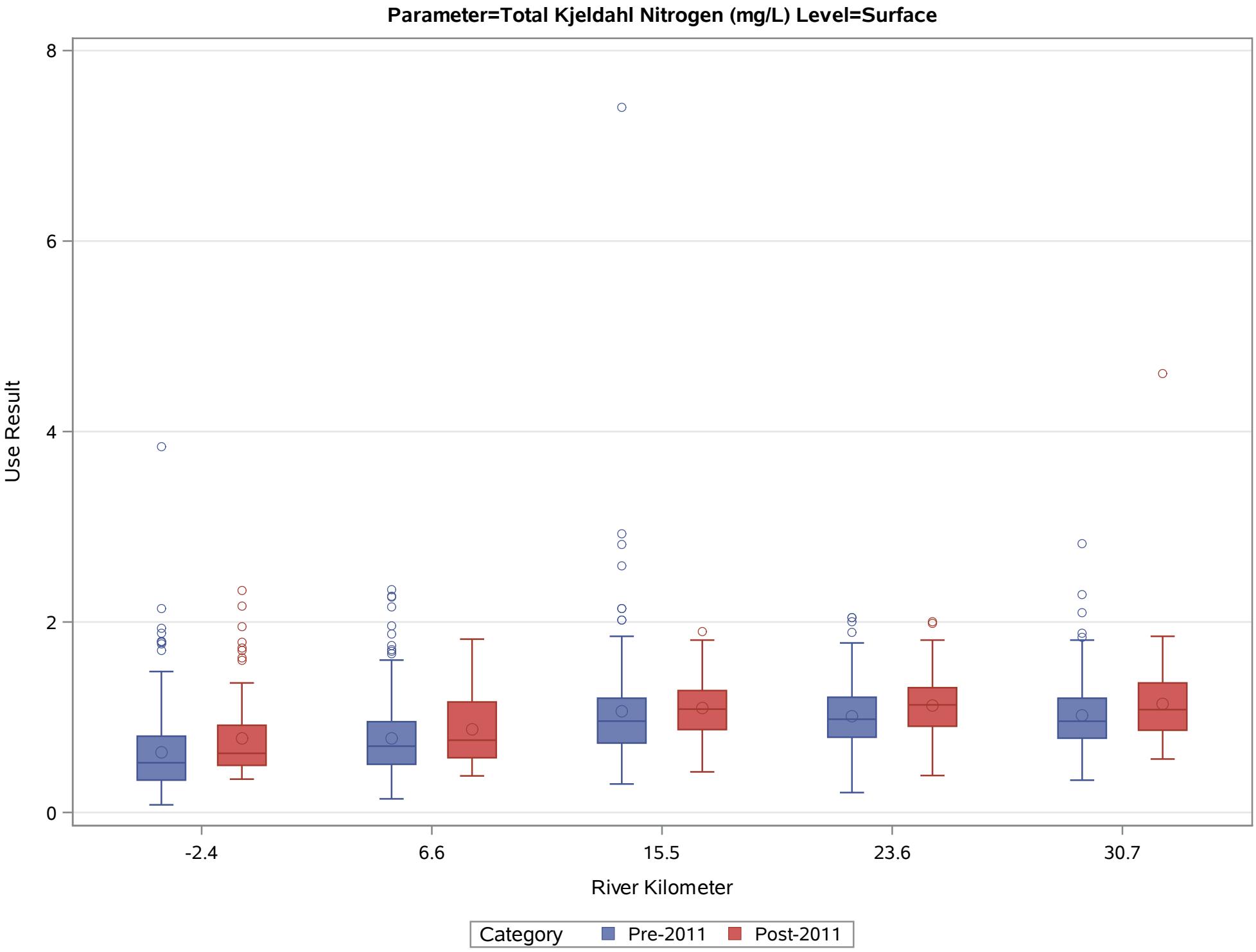

Parameter=Silica (mg/L) Level=Surface
15
10
5
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

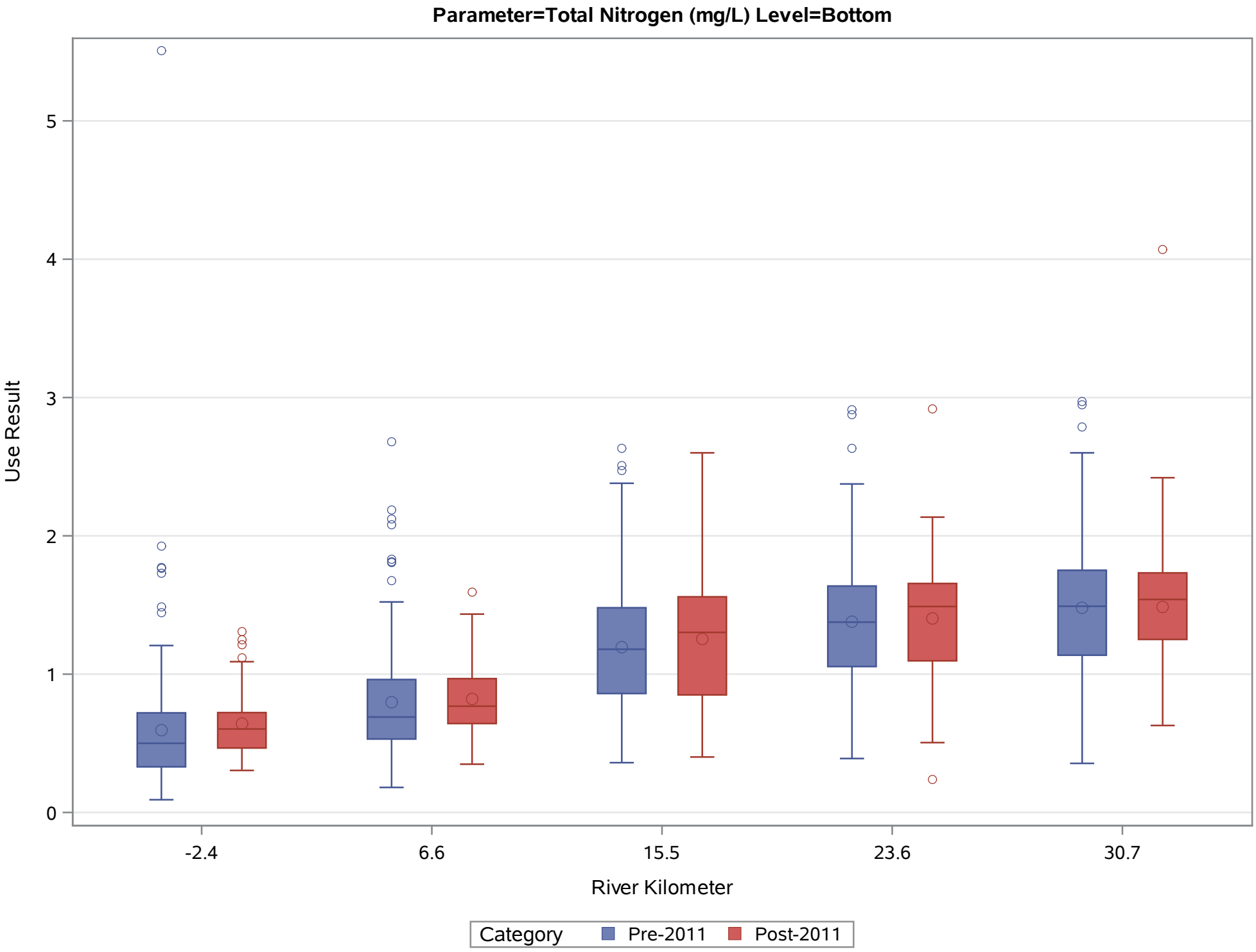

Parameter=Total Dissolved Solids (mg/L) Level=Surface
Use Result
4000
3000
2000
1000
0
30.7
River Kilometer
Category
Post-2011

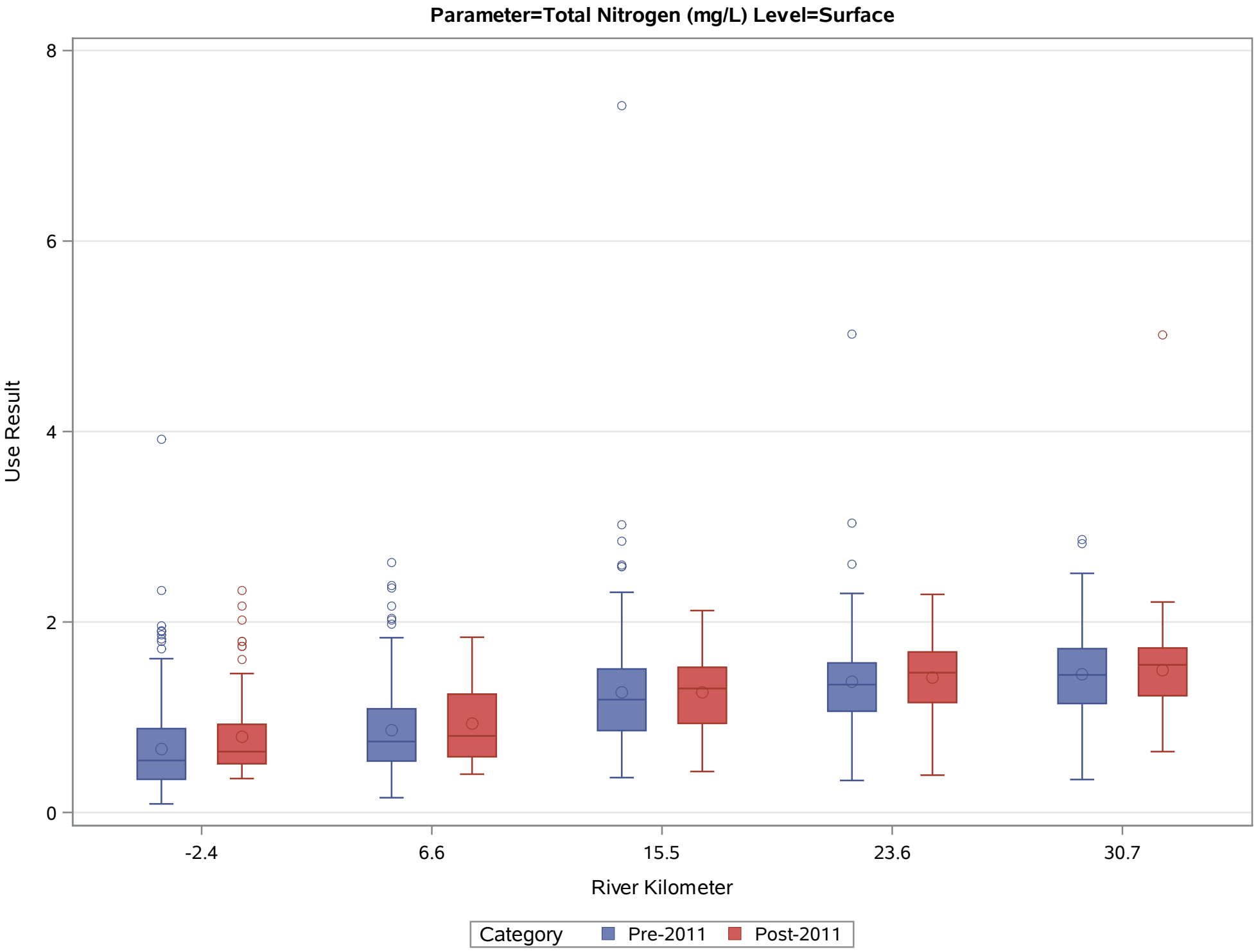

Parameter=Bottom Temperature (deg C) Level=Bottom
Use Result
35
30
25
20
15
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

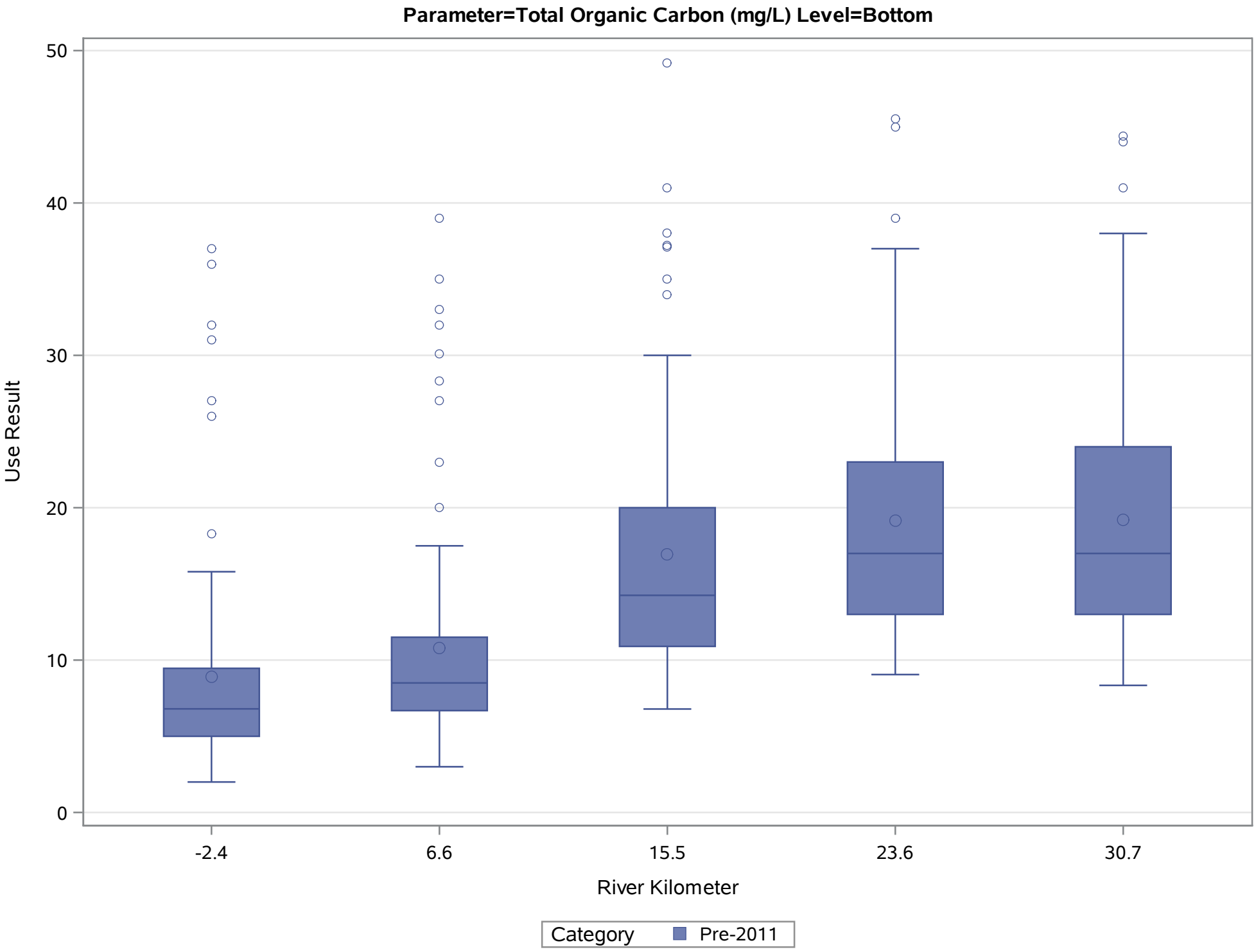

Parameter=Surface Temperature (deg C) Level=Surface
Use Result
35
30
25
20
15
-2.4
6.6
8.4
10.5
12.7
12.8
15.5
17.5
20.1
21.9
23.6
24.7
25.9
29.5
30.7
32.3
River Kilometer
Category
Pre-2011
Post-2011

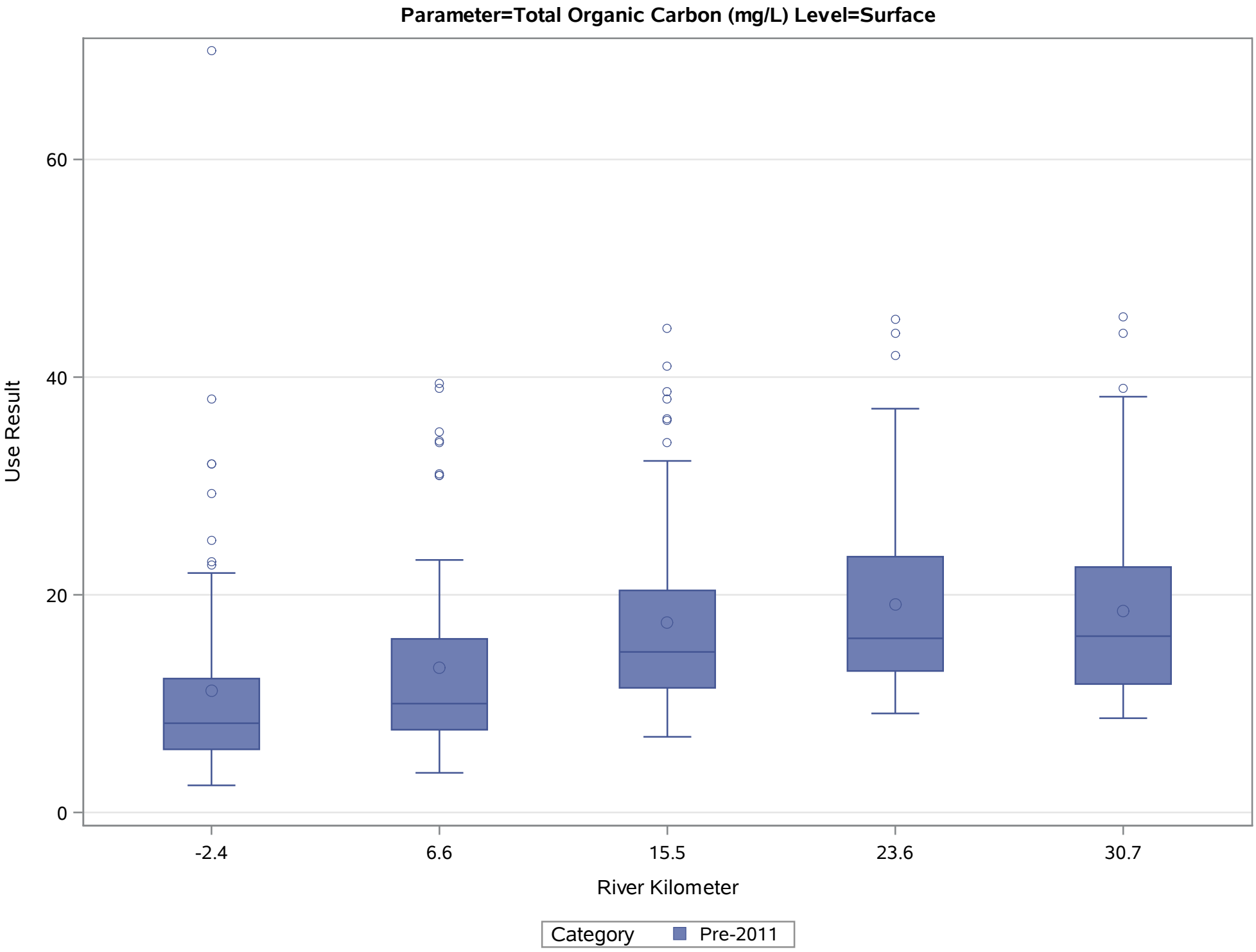

Parameter=Total Kjeldahl Nitrogen (mg/L) Level=Bottom
Use Result
0
1
2
3
4
5
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

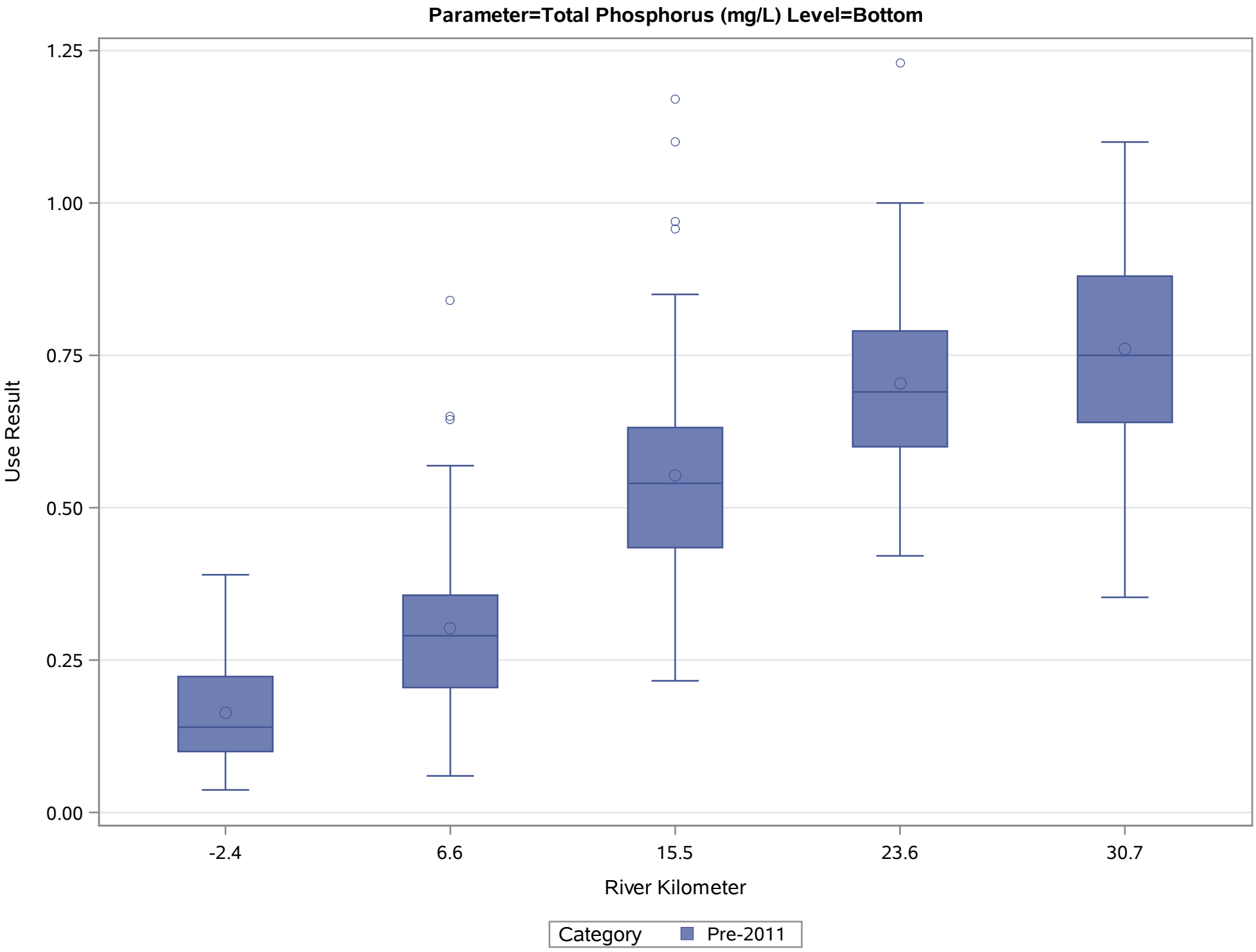

Parameter=Total Kjeldahl Nitrogen (mg/L) Level=Surface
Use Result
8
6
4
2
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

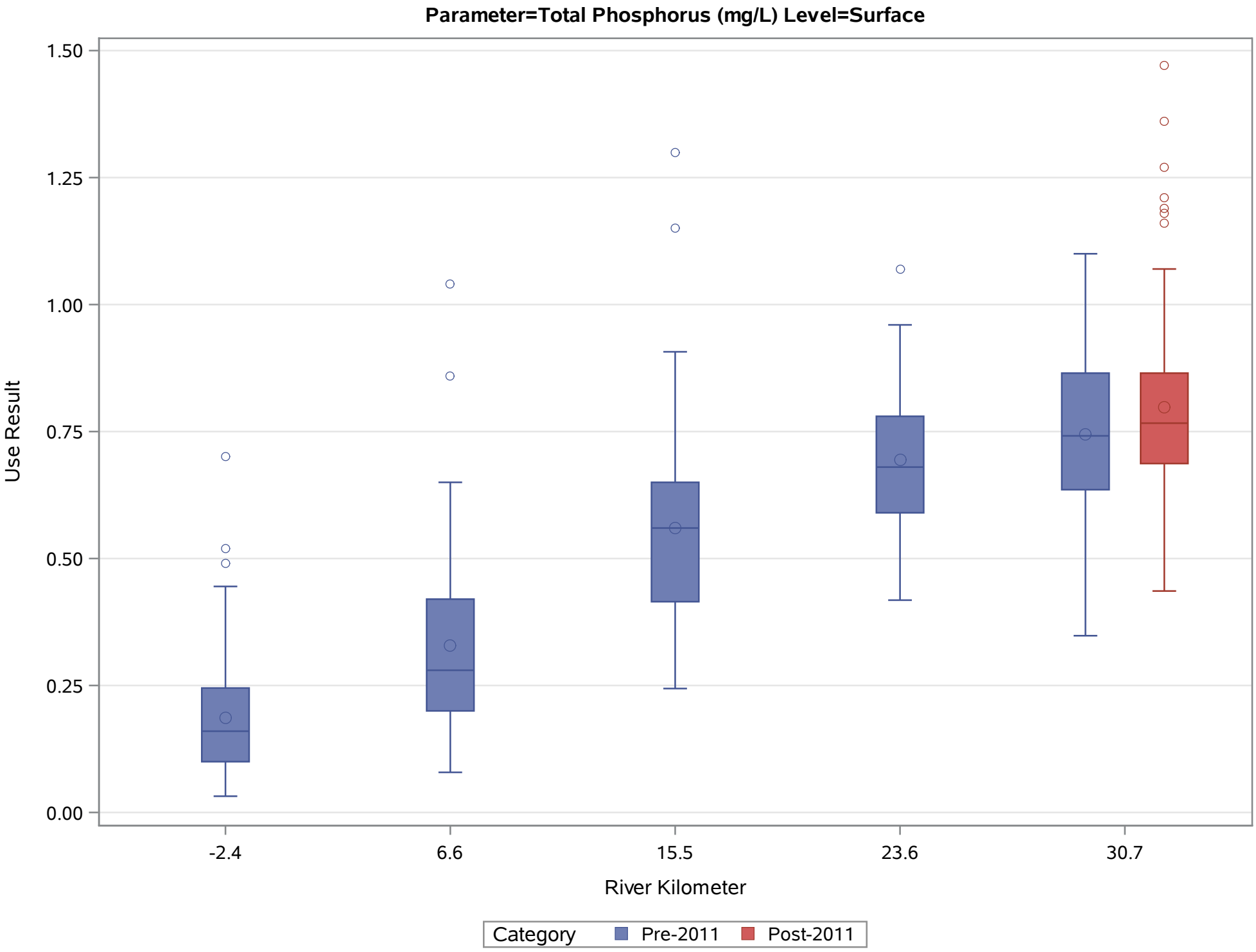

Parameter=Total Nitrogen (mg/L) Level=Bottom
Use Result
0
1
2
3
4
5
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

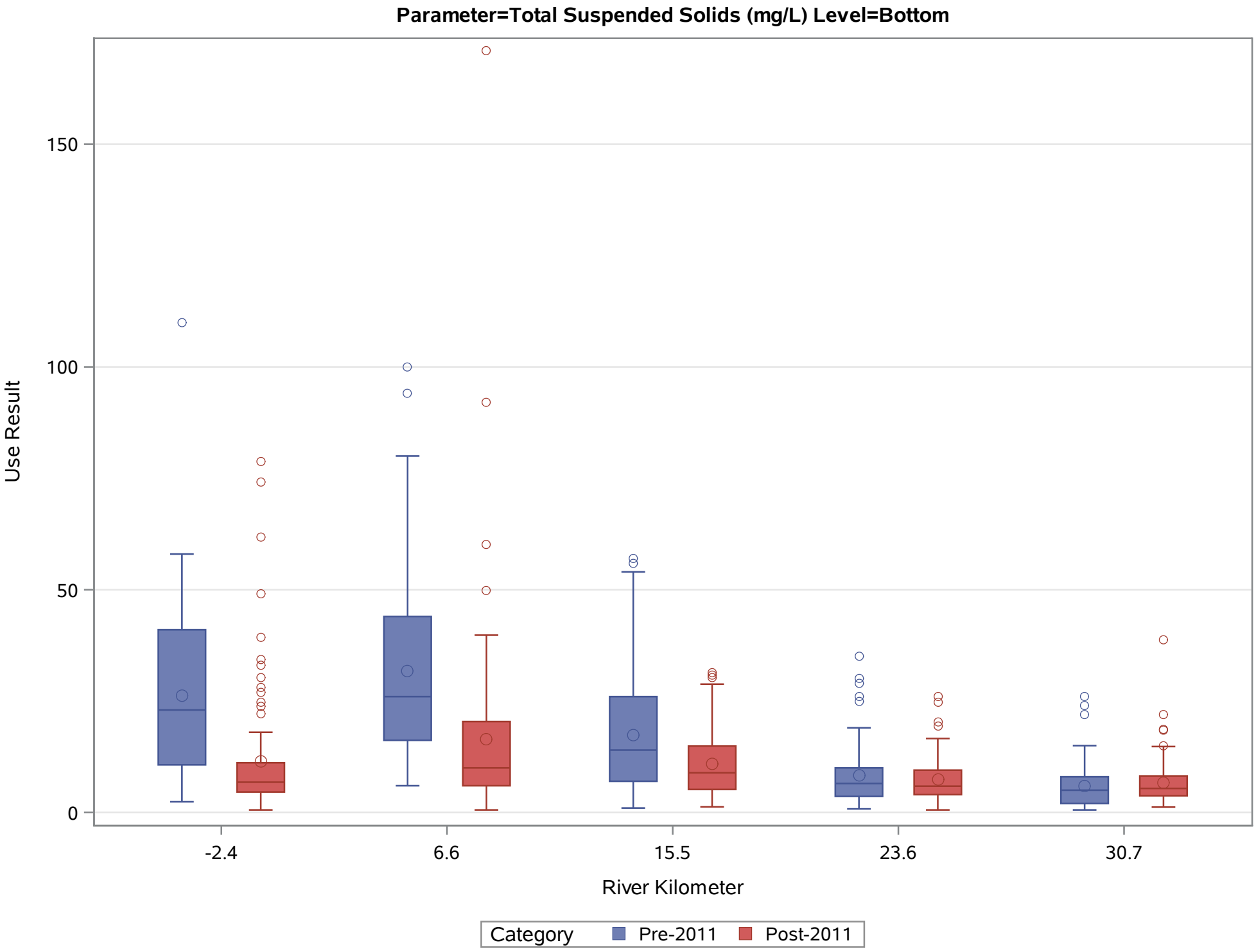

Parameter=Total Nitrogen (mg/L) Level=Surface
Use Result
8
6
4
2
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

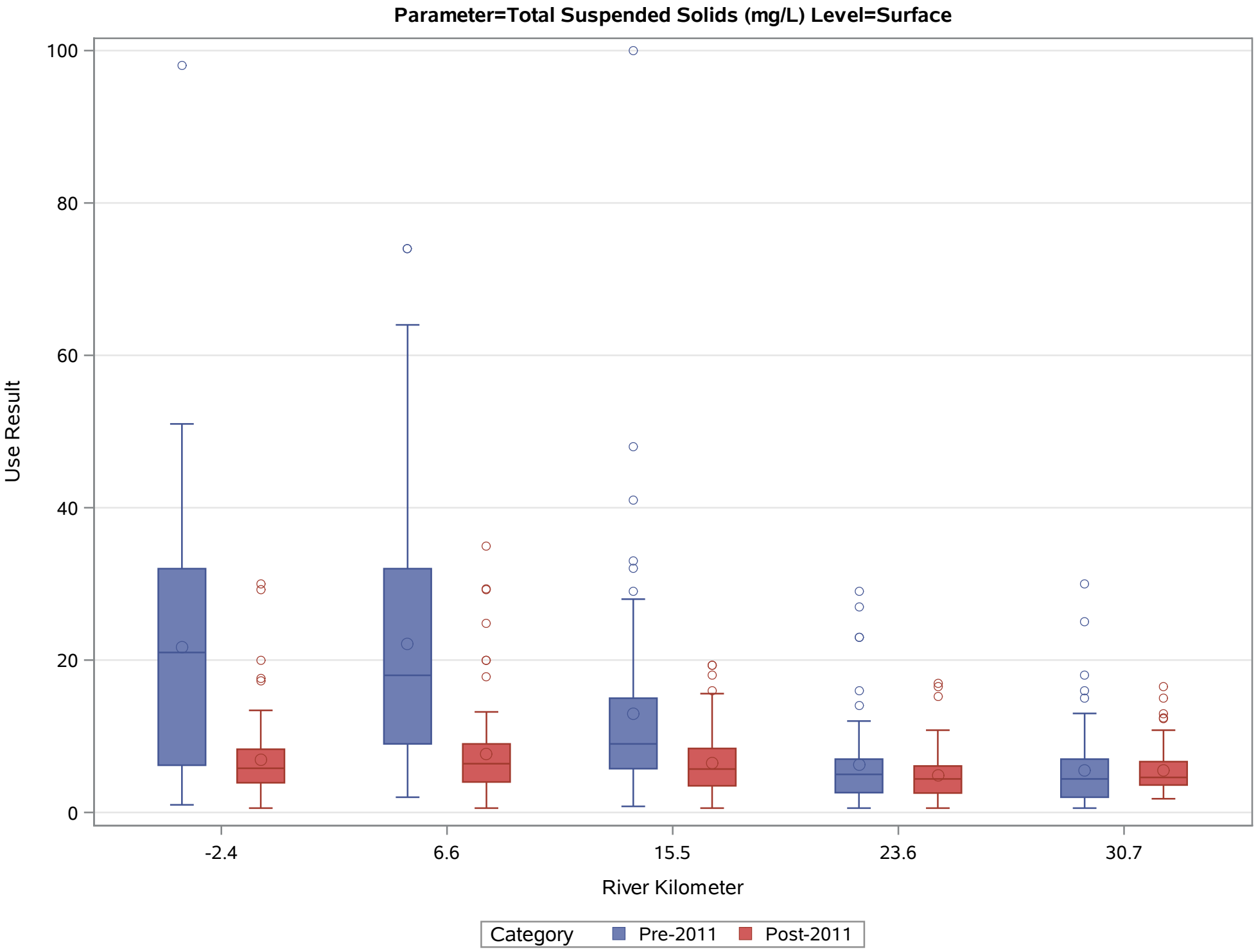

Parameter=Total Organic Carbon (mg/L) Level=Bottom
Use Result
50
40
30
20
10
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

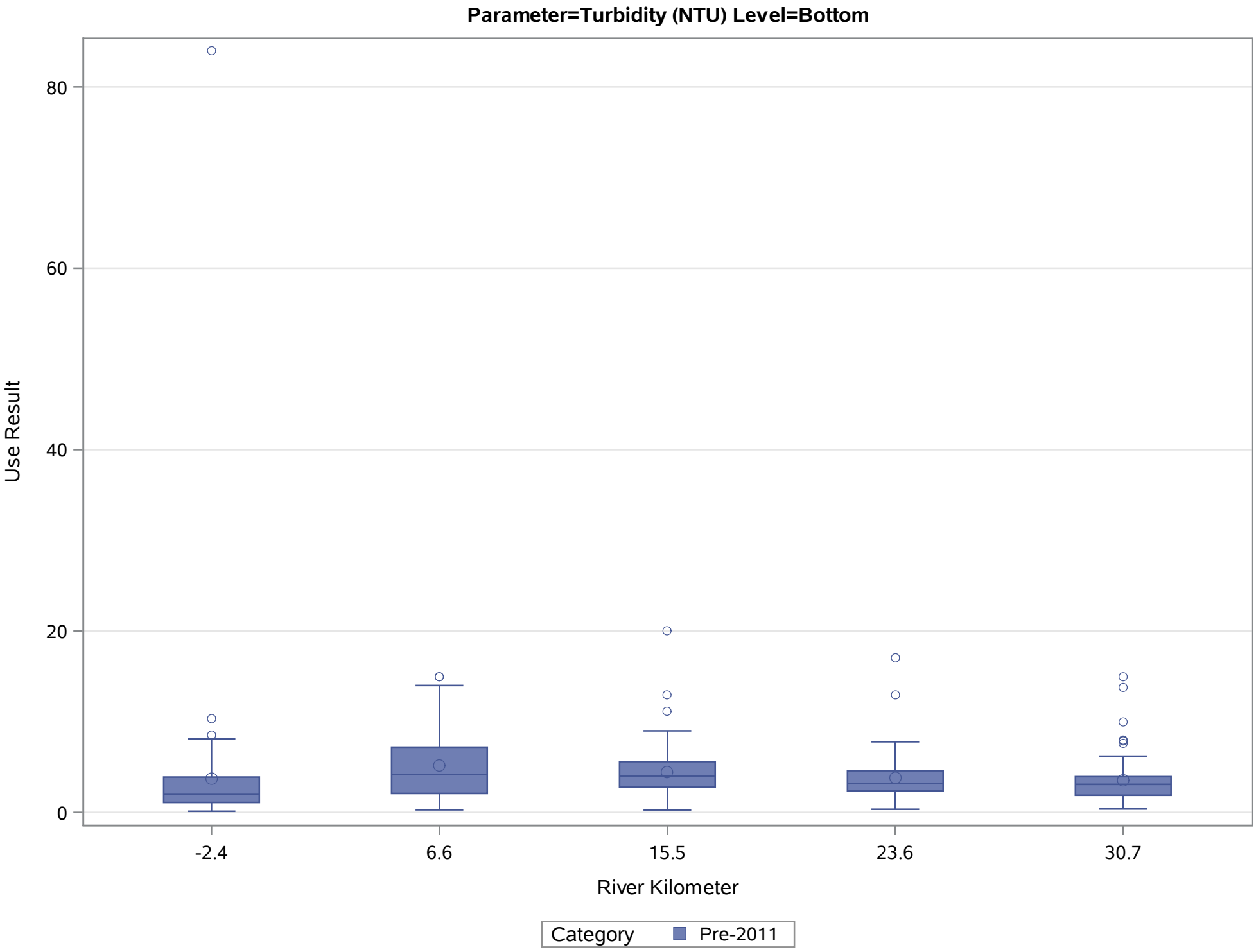

Parameter=Total Organic Carbon (mg/L) Level=Surface
Use Result
60
40
20
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

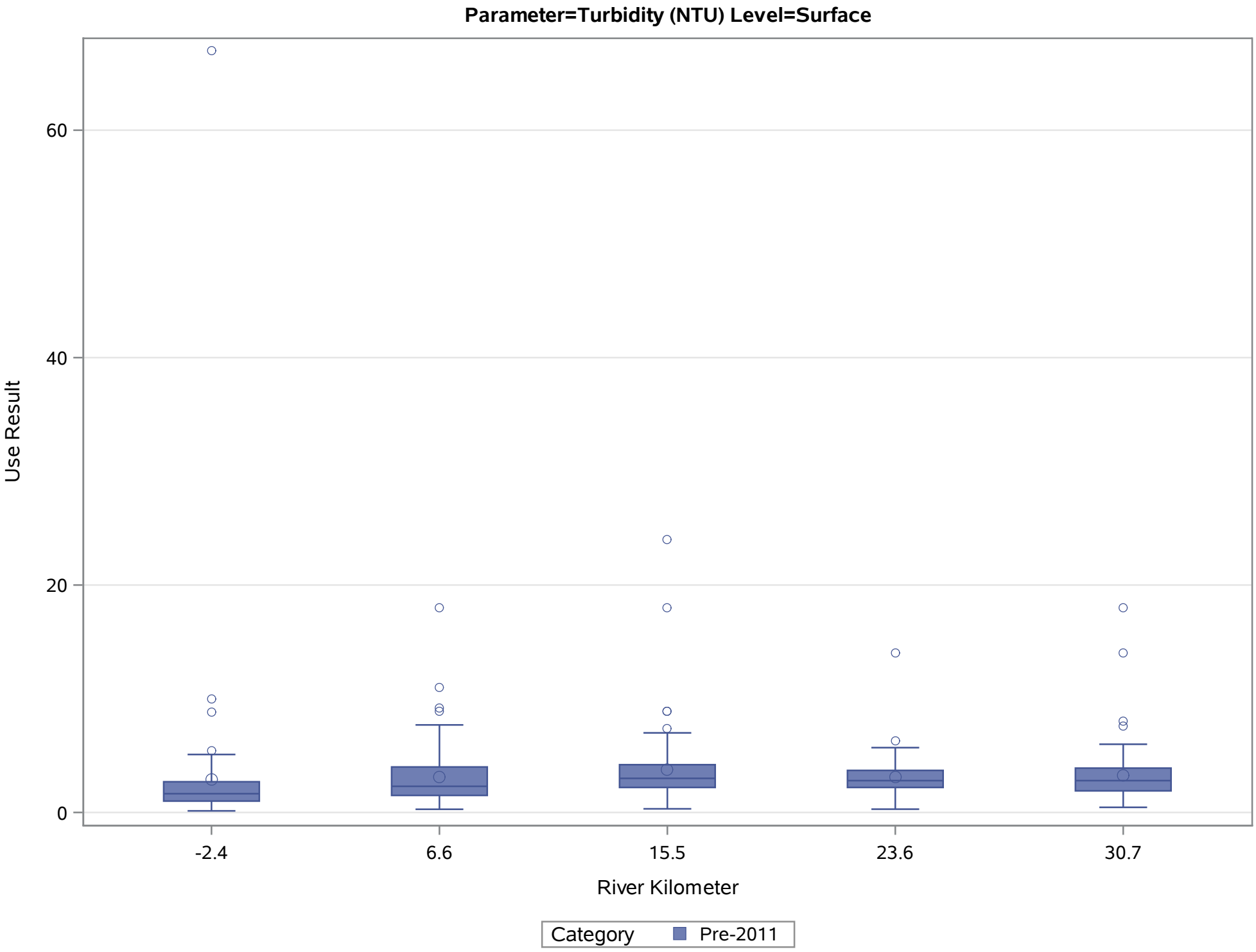

Parameter=Total Phosphorus (mg/L) Level=Bottom
1.25
1.00
0.75
0.50
0.25
0.00
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

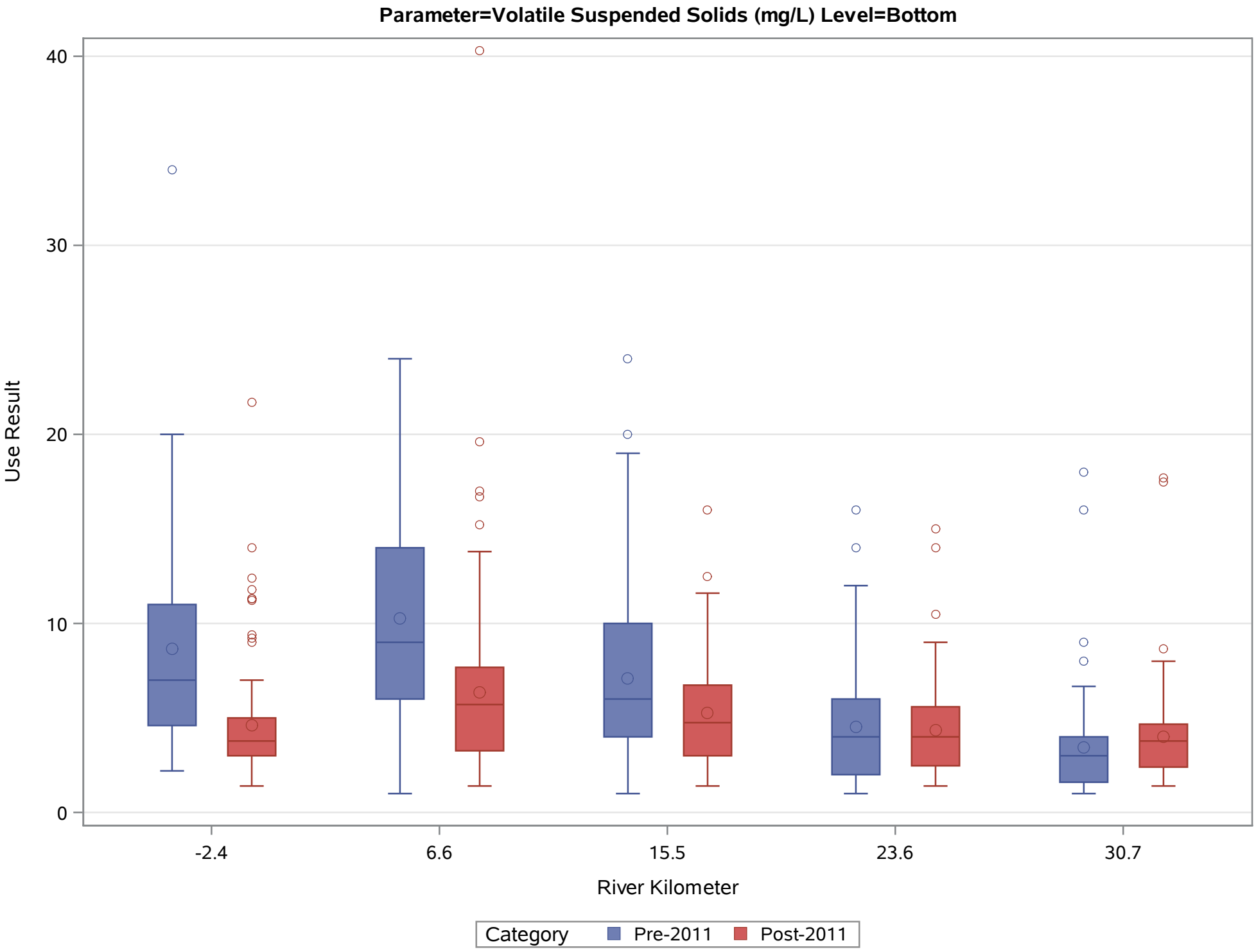

Parameter=Total Phosphorus (mg/L) Level=Surface
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

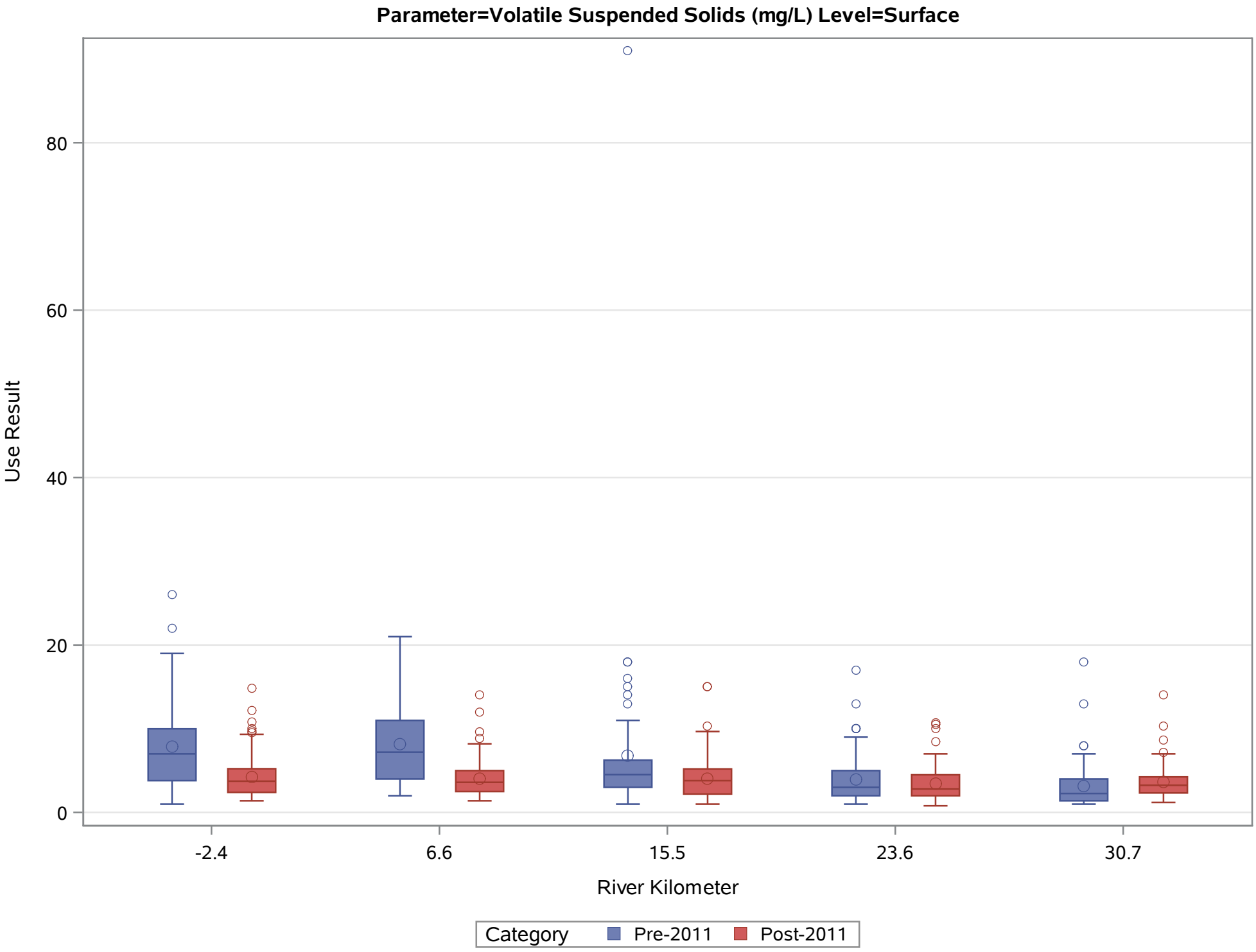

Parameter=Total Suspended Solids (mg/L) Level=Bottom
Use Result
150
100
50
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011


Parameter=Total Suspended Solids (mg/L) Level=Surface
Use Result
100
80
60
40
20
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011


Parameter=Turbidity (NTU) Level=Bottom
Use Result
80
60
40
20
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

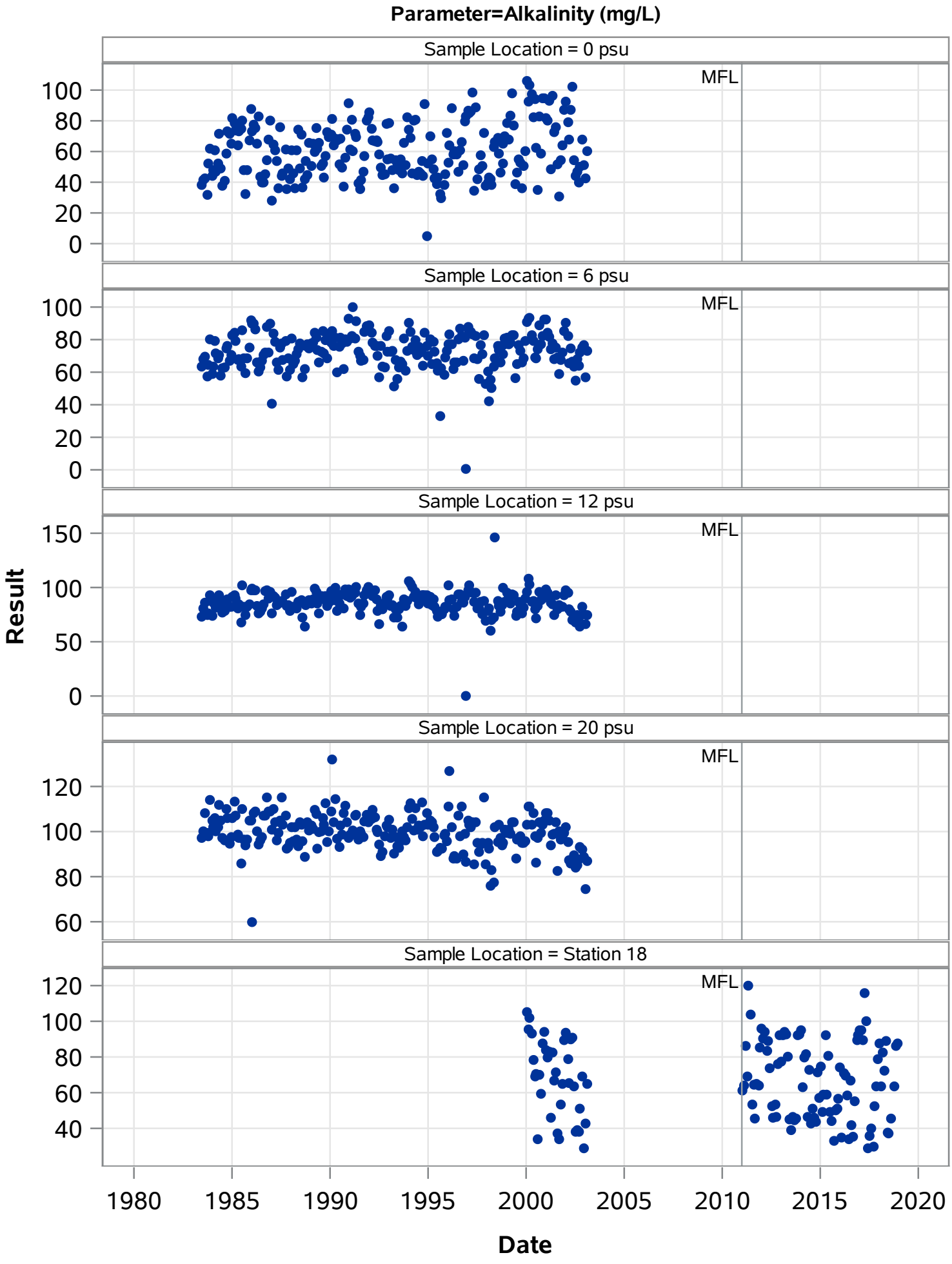

Parameter=Turbidity (NTU) Level=Surface
60
40
20
0
Use Result
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011

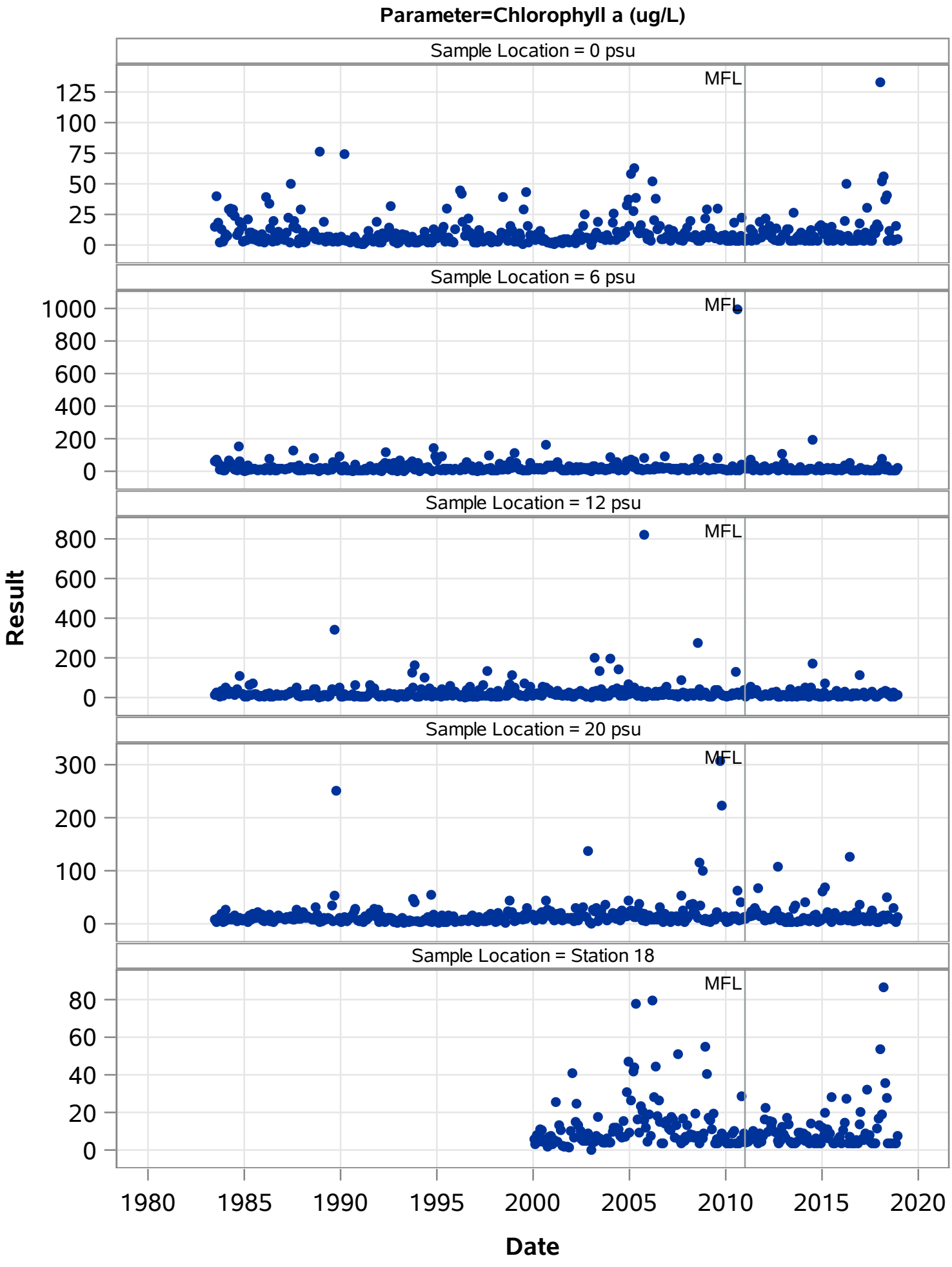

Parameter=Volatile Suspended Solids (mg/L) Level=Bottom
Use Result
40
30
20
10
0
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

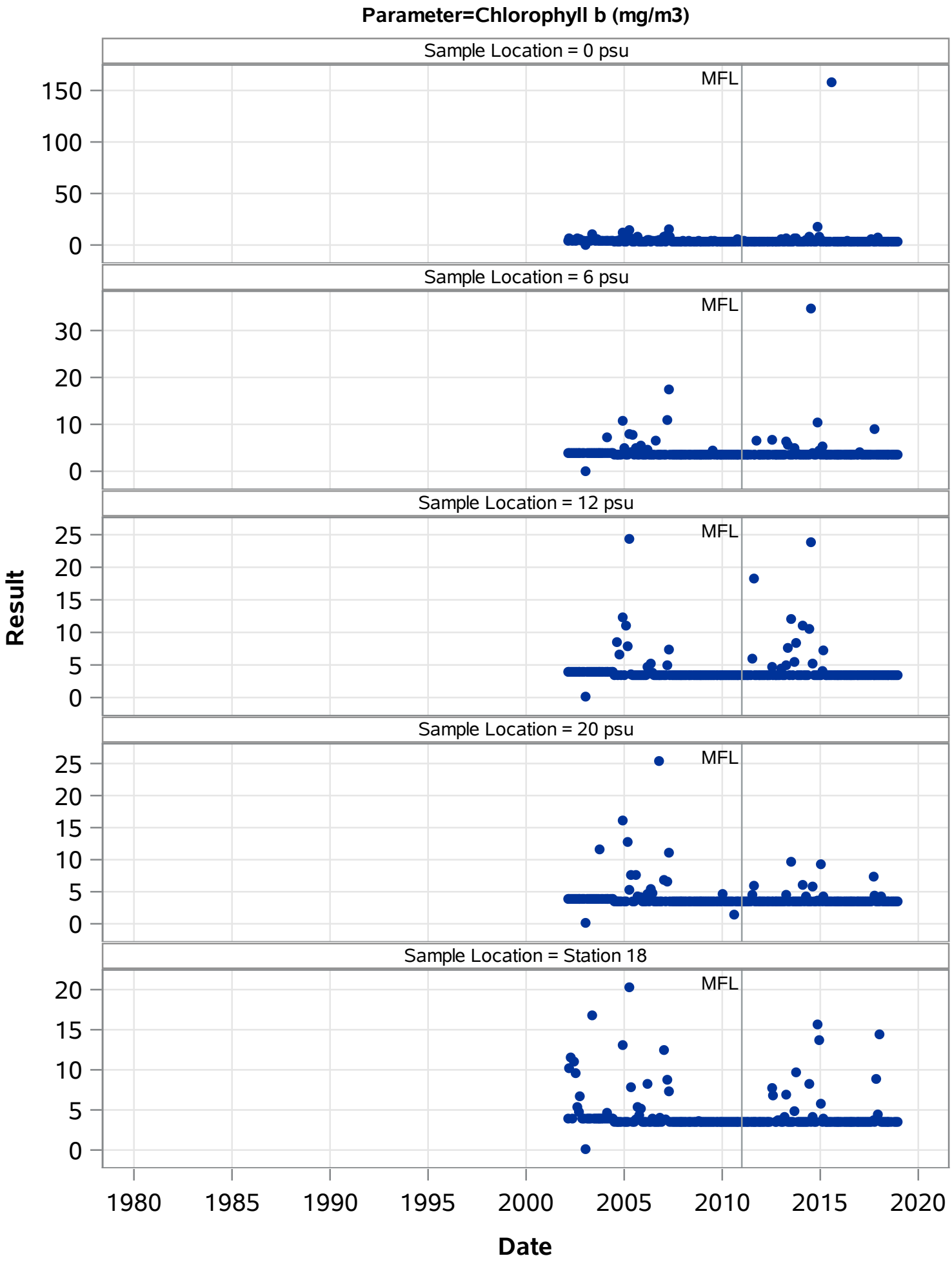

Parameter=Volatile Suspended Solids (mg/L) Level=Surface
Use Result
0
20
40
60
80
-2.4
6.6
15.5
23.6
30.7
River Kilometer
Category
Pre-2011
Post-2011

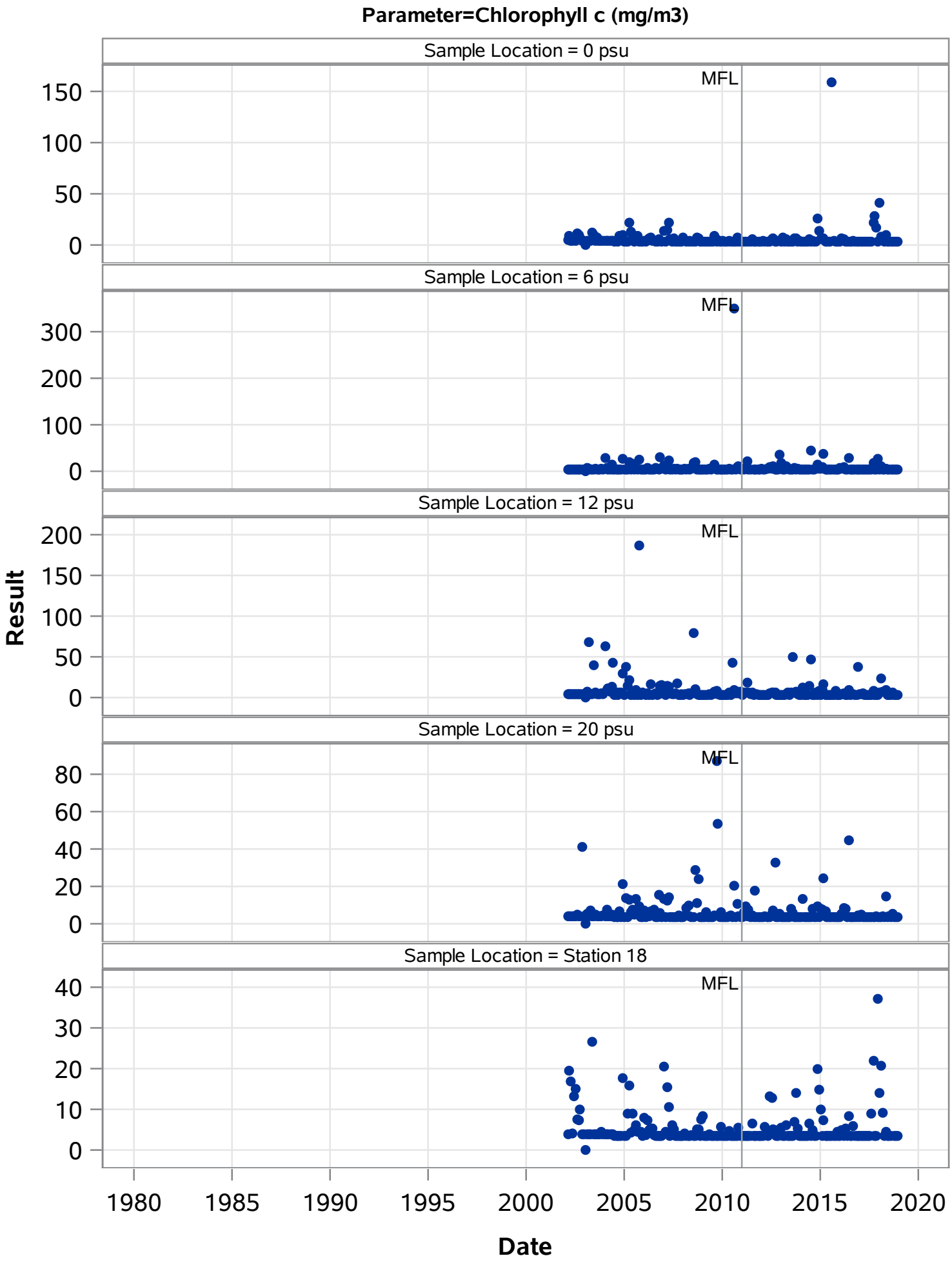
APPENDIX G

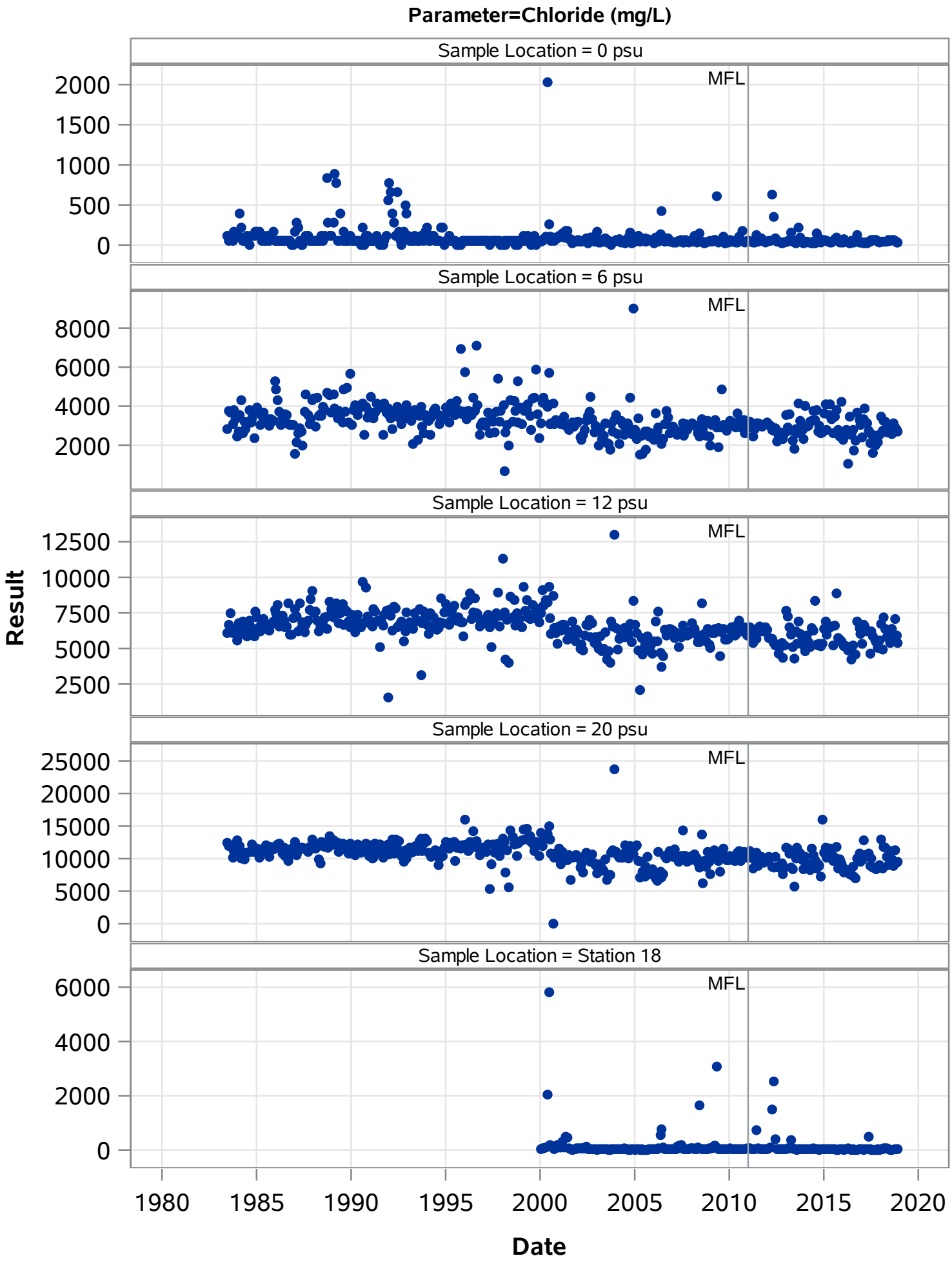
Peace HBMP Moving Station Time Series and Box and Whisker Plots

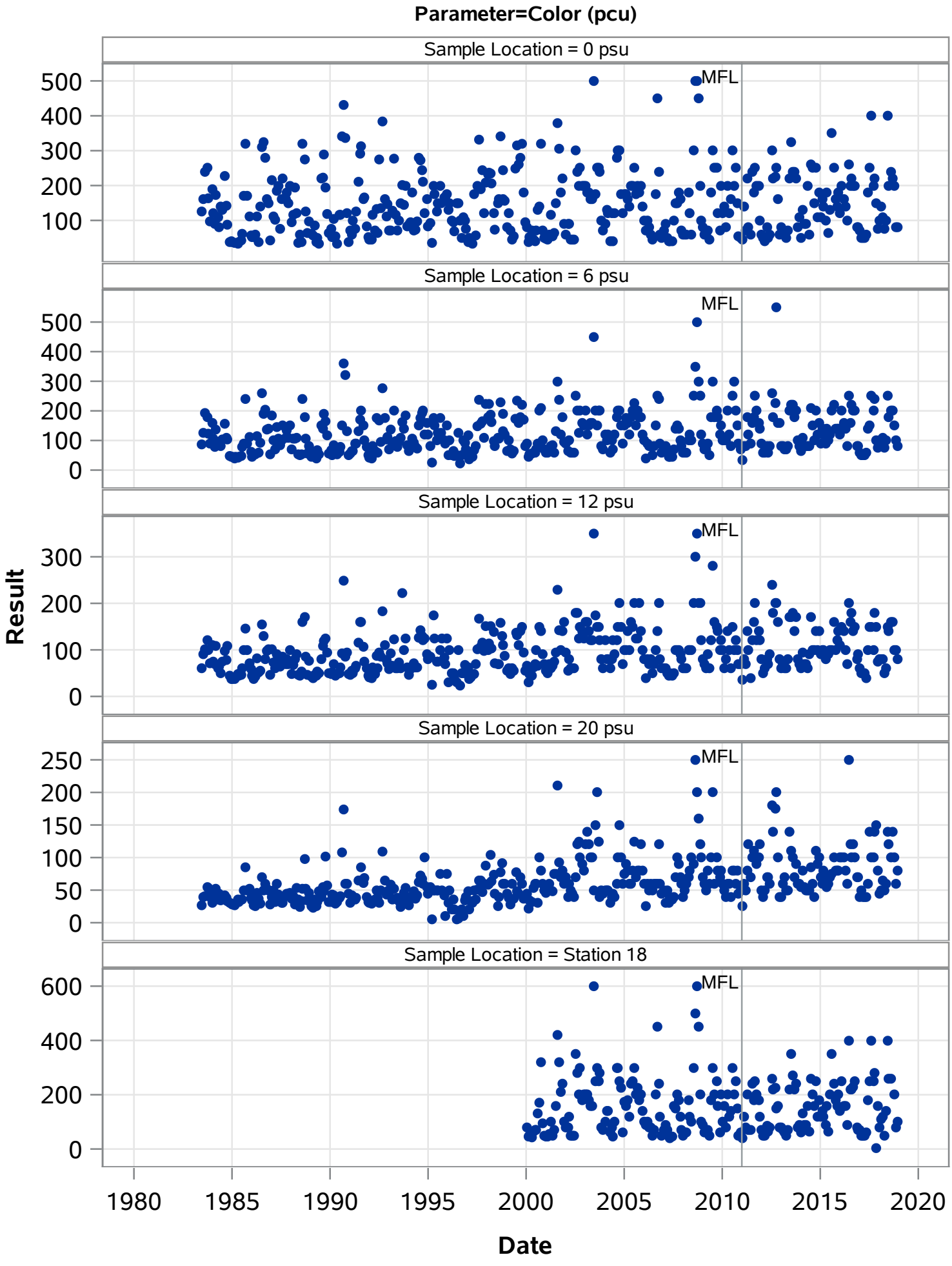

Parameter=Alkalinity (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
0
20
40
60
80
100
50
120
150
1980
1985
1990
1995
2000
2005
2010
2015
2020

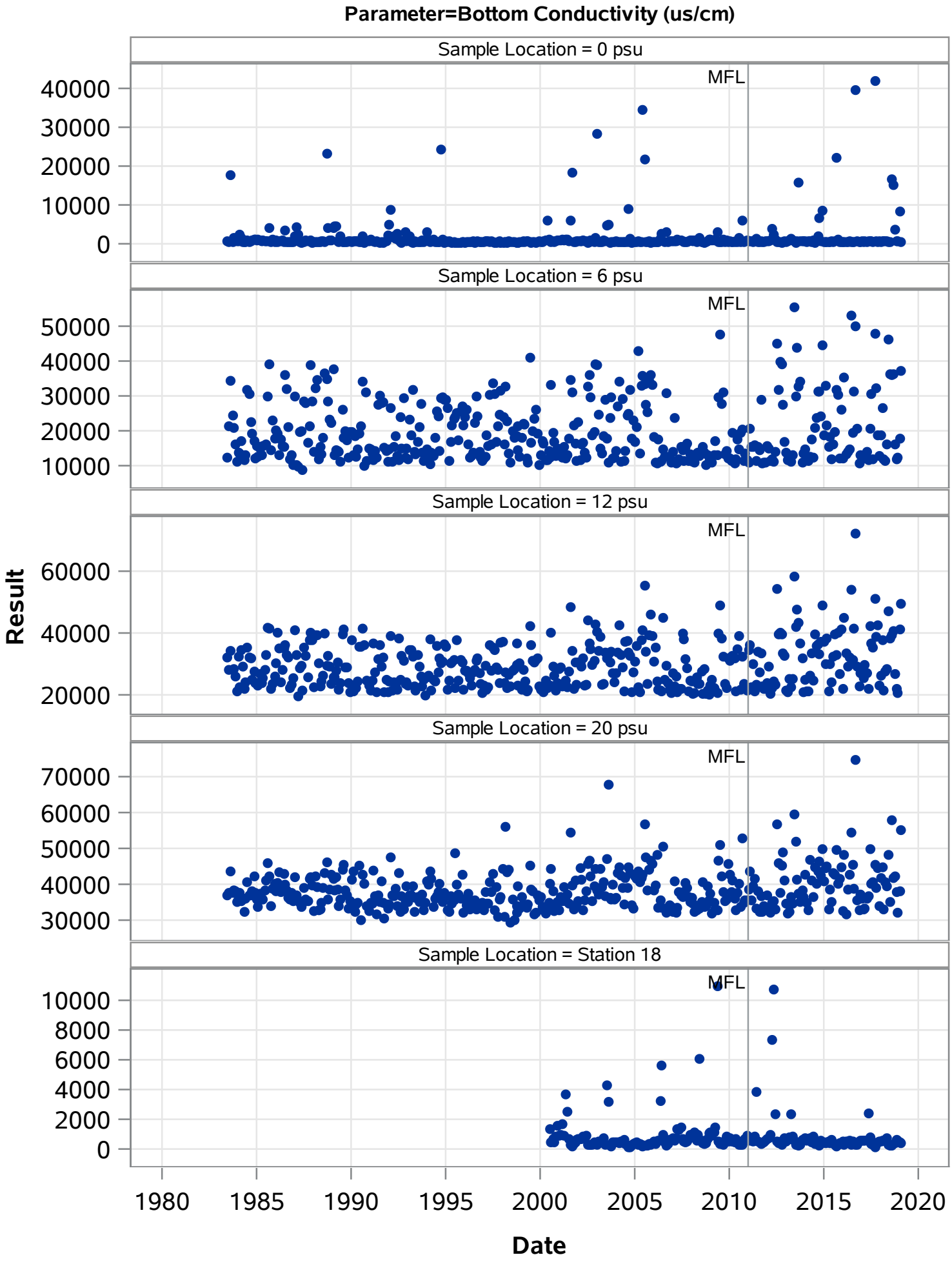

Parameter=Chlorophyll a (ug/L)
Sample Location = 0 psu
MFL
125
100
75
50
25
0
Sample Location = 6 psu
MFL
1000
800
600
400
200
0
Sample Location = 12 psu
MFL
800
600
400
200
0
Sample Location = 20 psu
MFL
300
200
100
0
Sample Location = Station 18
MFL
80
60
40
20
0
Result
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

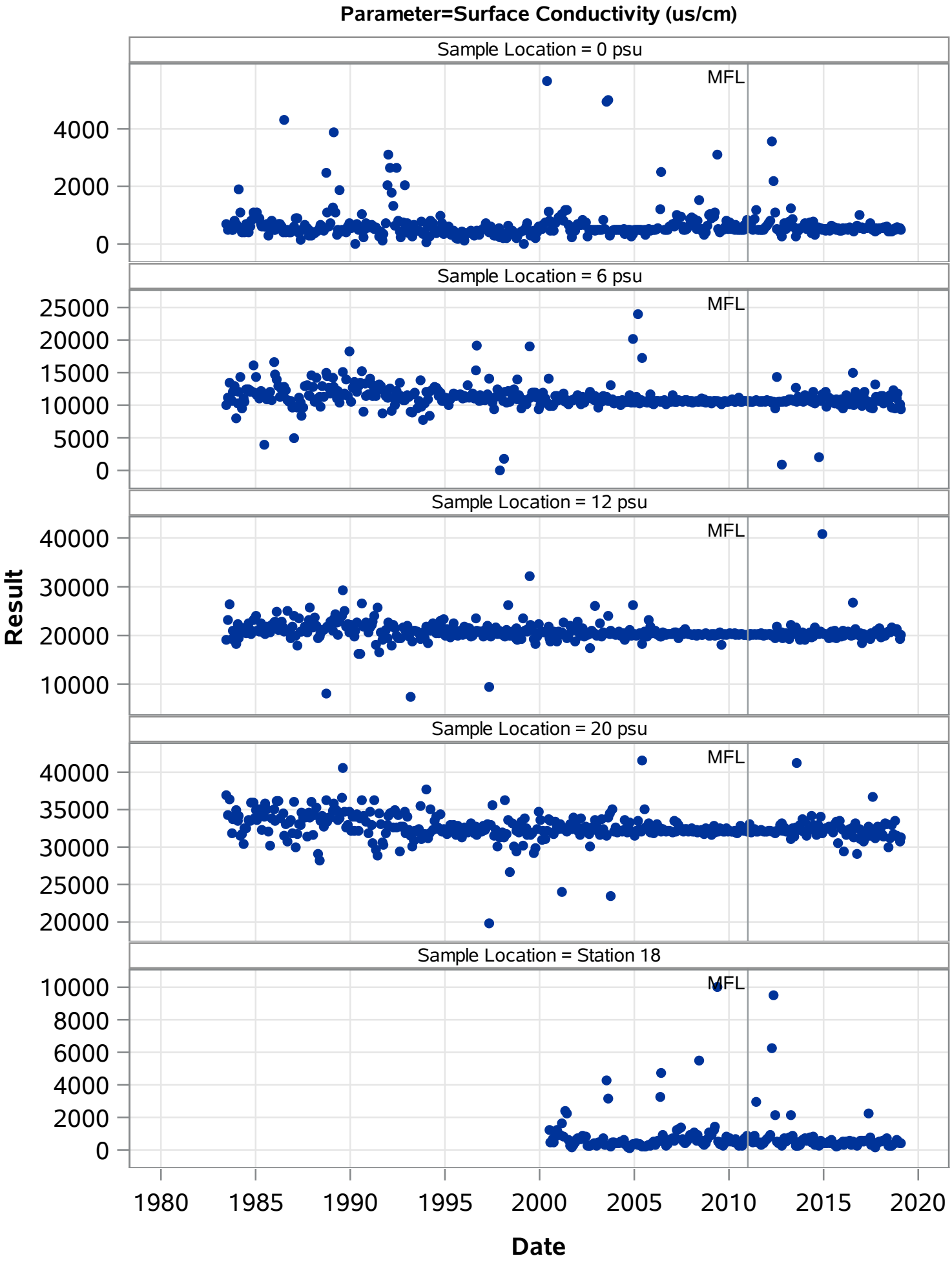

Parameter=Chlorophyll b (mg/m3)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
150
100
50
0
30
20
10
25
15
5
1980
1985
1990
1995
2000
2005
2010
2015
2020

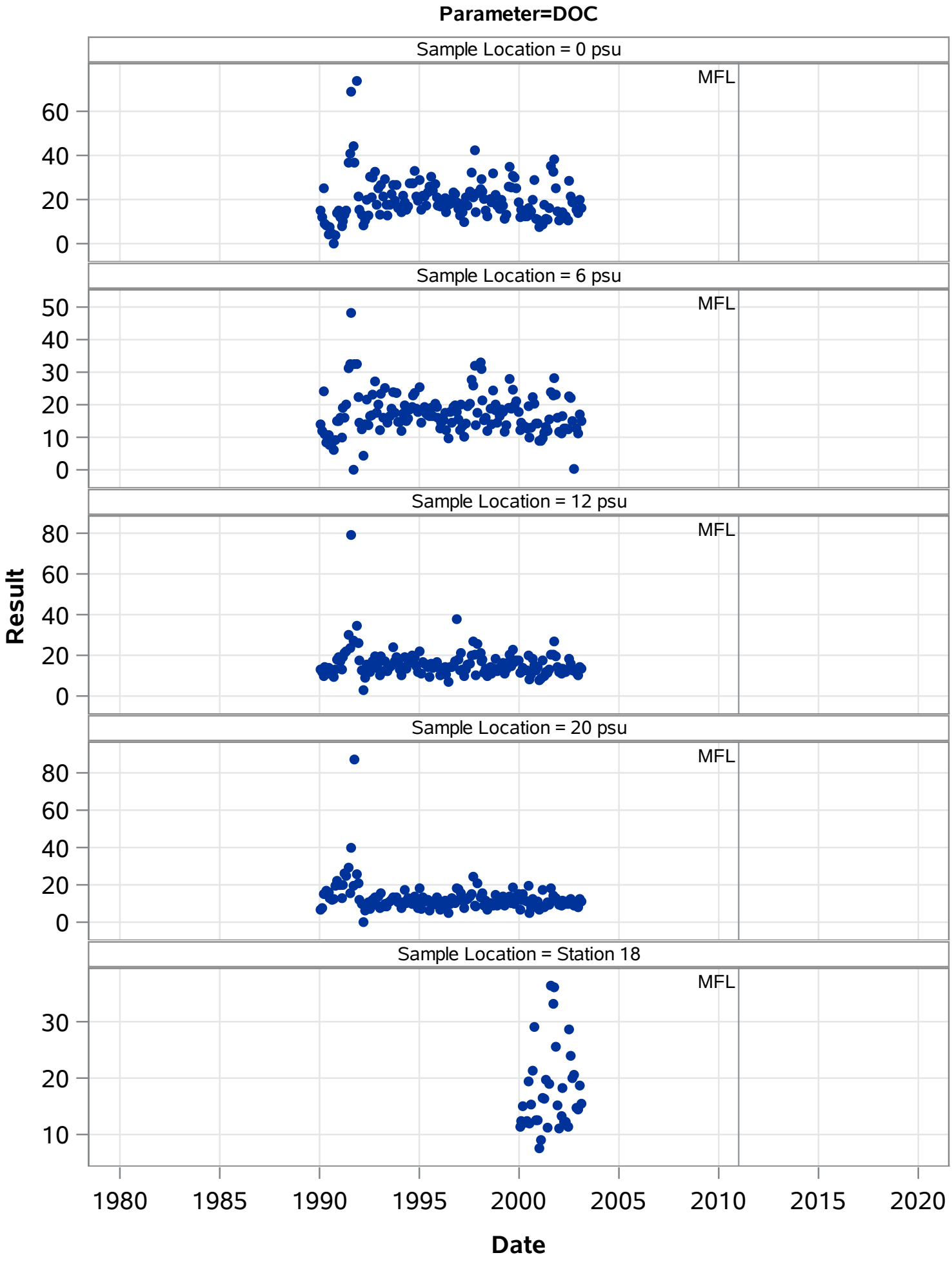

Parameter=Chlorophyll c (mg/m3)
Sample Location = 0 psu
MFL
150
100
50
0
Sample Location = 6 psu
MFL
300
200
100
0
Sample Location = 12 psu
MFL
200
150
100
50
0
Sample Location = 20 psu
MFL
80
60
40
20
0
Sample Location = Station 18
MFL
40
30
20
10
0
Result
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

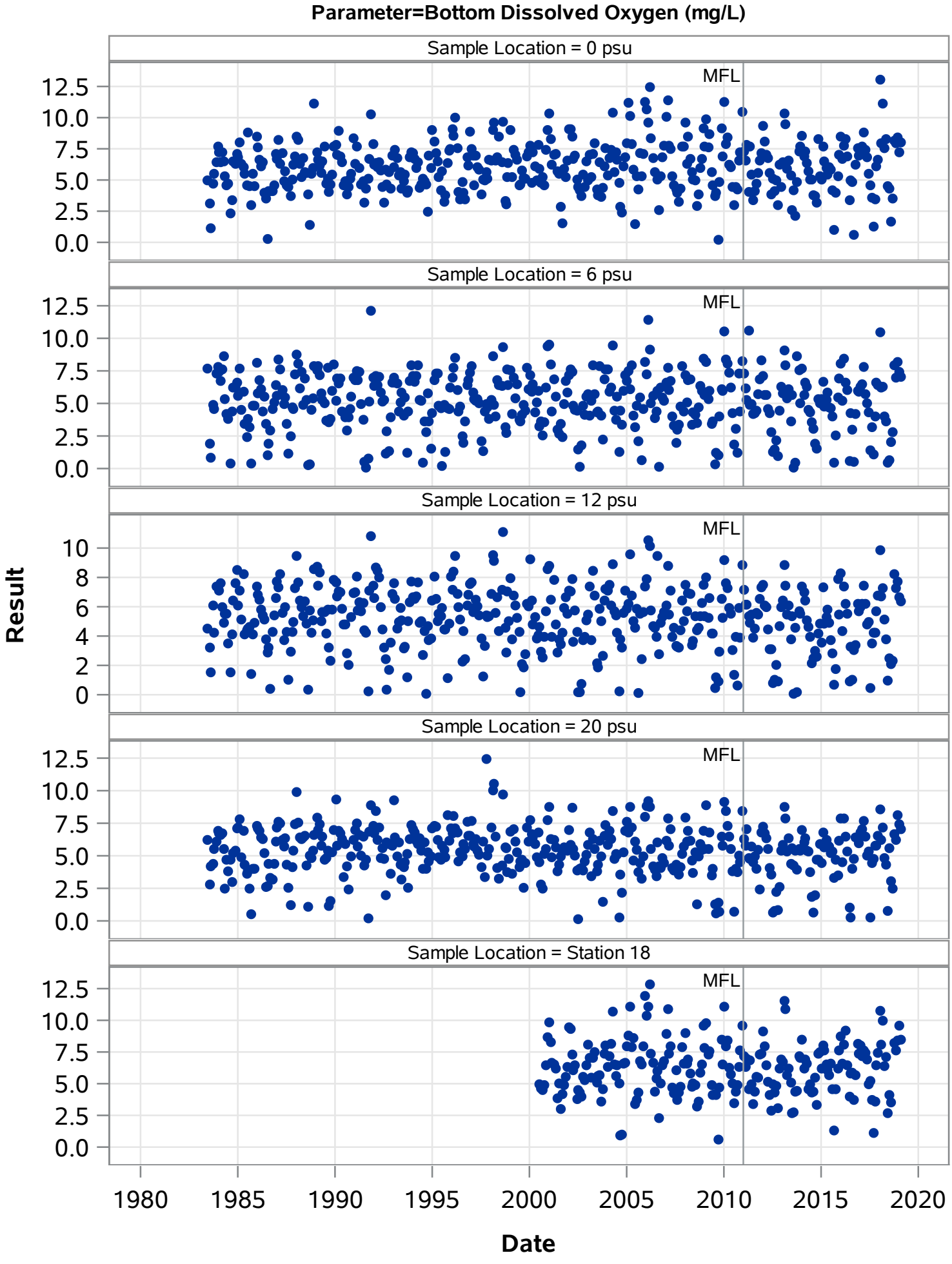

Parameter=Chloride (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
2000
1500
1000
500
0
8000
6000
4000
2000
12500
10000
7500
5000
2500
25000
20000
15000
10000
5000
0
1980
1985
1990
1995
2000
2005
2010
2015
2020

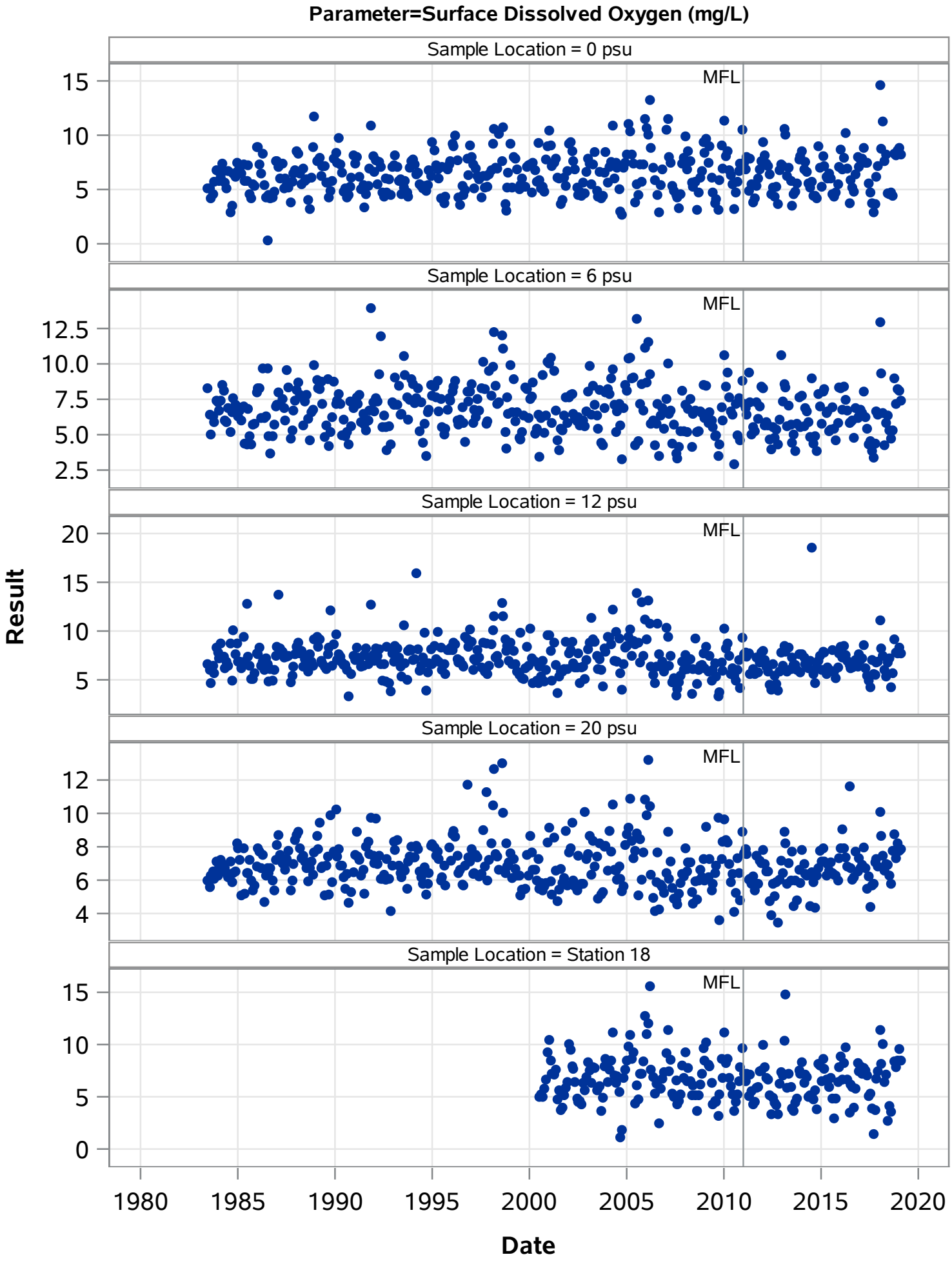

Parameter=Color (pcu)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

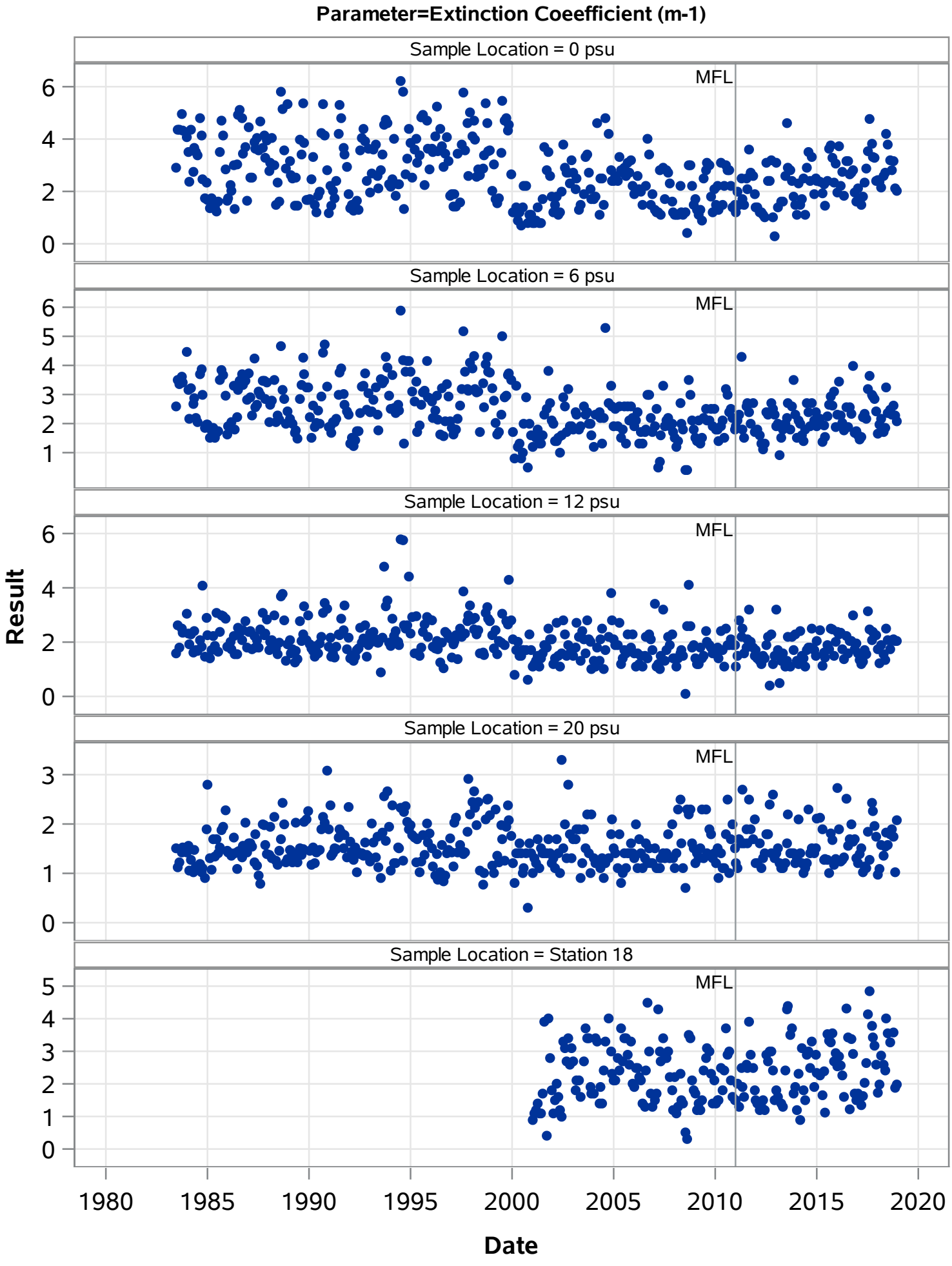

Parameter=Bottom Conductivity (us/cm)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
40000
30000
20000
10000
0
50000
60000
70000
8000
6000
4000
2000
1980
1985
1990
1995
2000
2005
2010
2015
2020

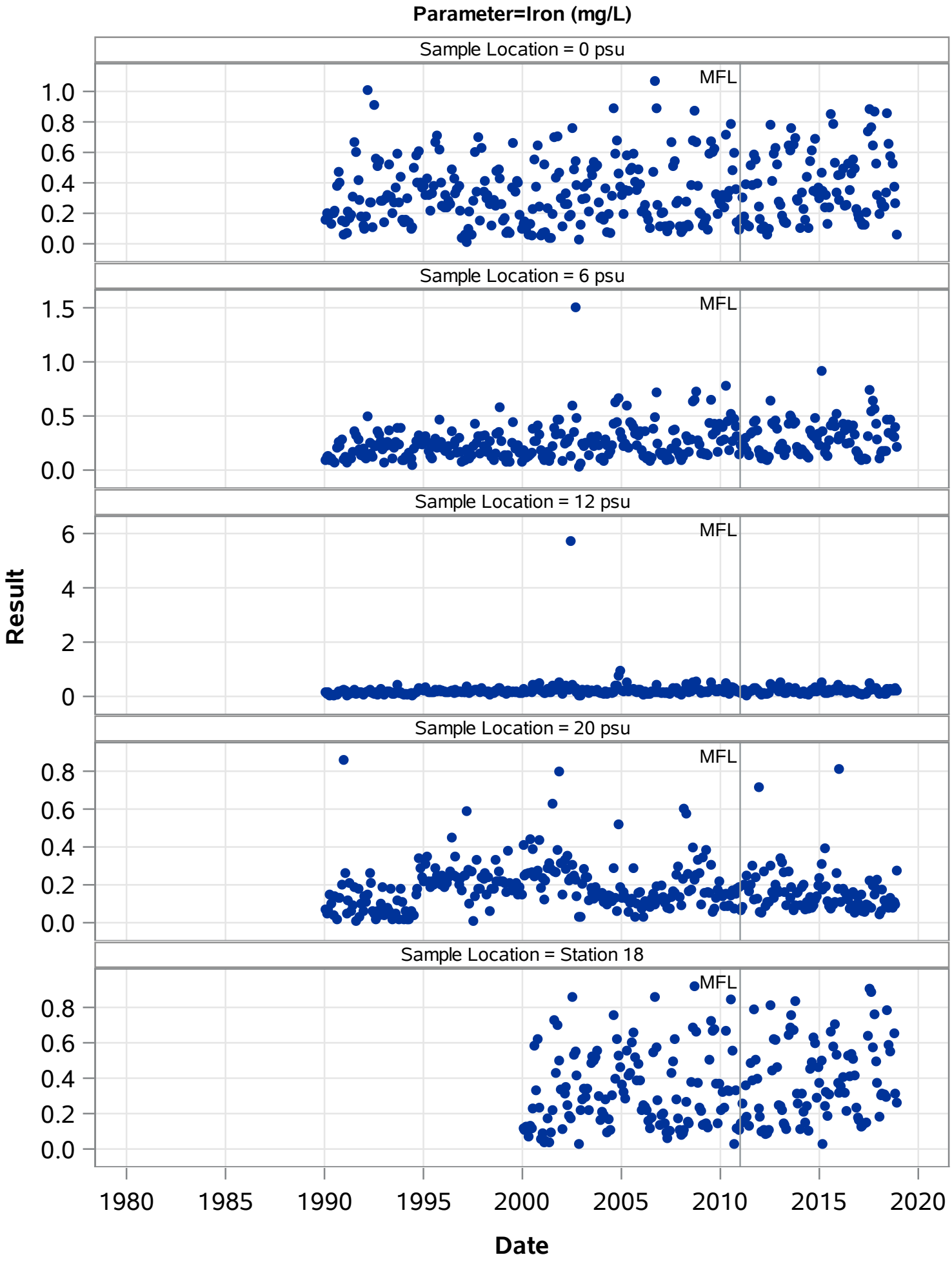

Parameter=Surface Conductivity (us/cm)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
0
2000
4000
5000
10000
15000
20000
25000
30000
35000
40000
6000
8000
1980
1985
1990
1995
2000
2005
2010
2015
2020

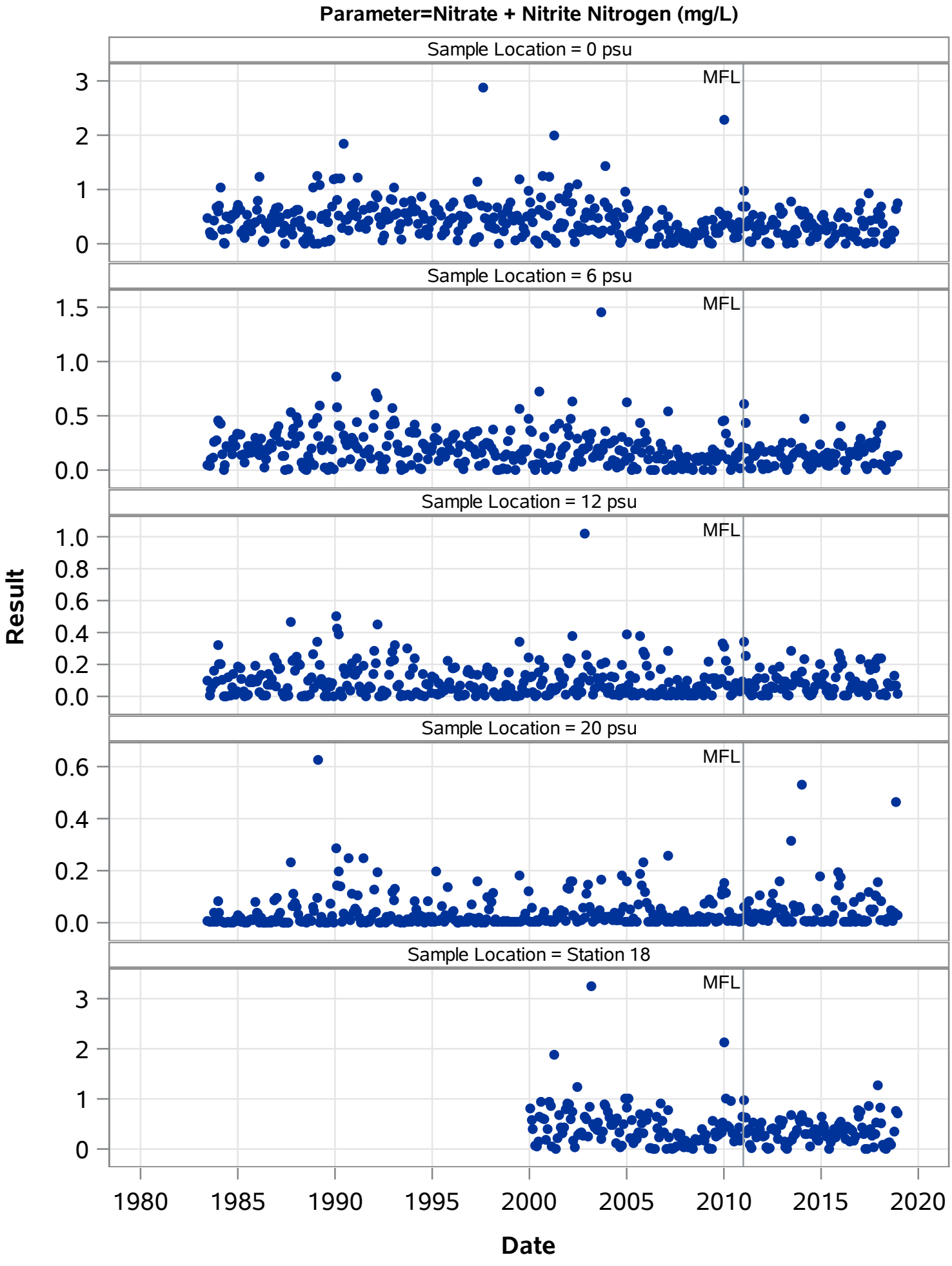

Parameter=DOC
Sample Location = 0 psu
MFL
60
40
20
0
Sample Location = 6 psu
MFL
50
40
30
20
10
0
Sample Location = 12 psu
MFL
80
60
40
20
0
Sample Location = 20 psu
MFL
80
60
40
20
0
Sample Location = Station 18
MFL
30
20
10
Result
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

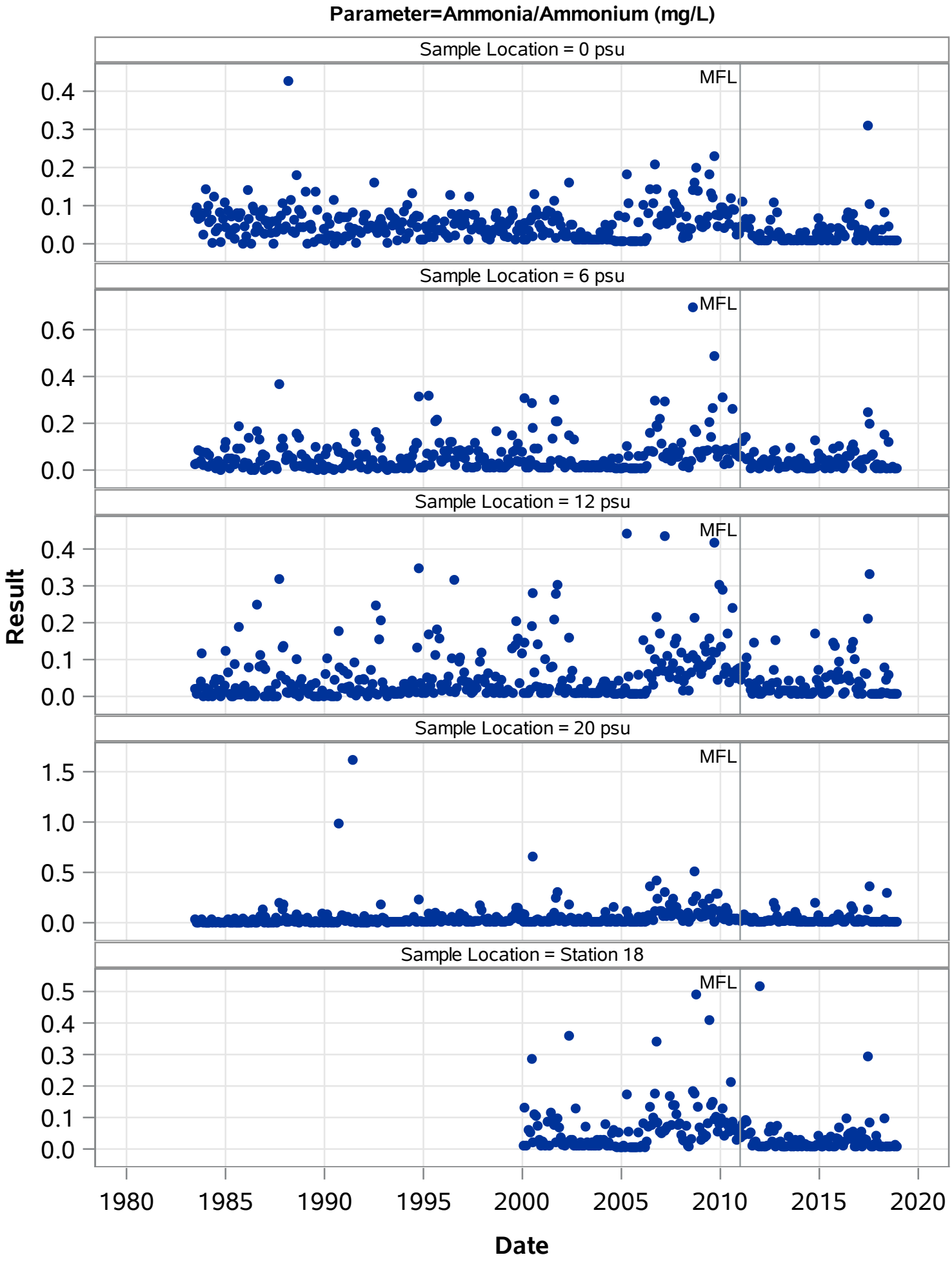

Parameter=Bottom Dissolved Oxygen (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
0.0
2.5
5.0
7.5
10.0
12.5
0
2
4
6
8
10
1980
1985
1990
1995
2000
2005
2010
2015
2020

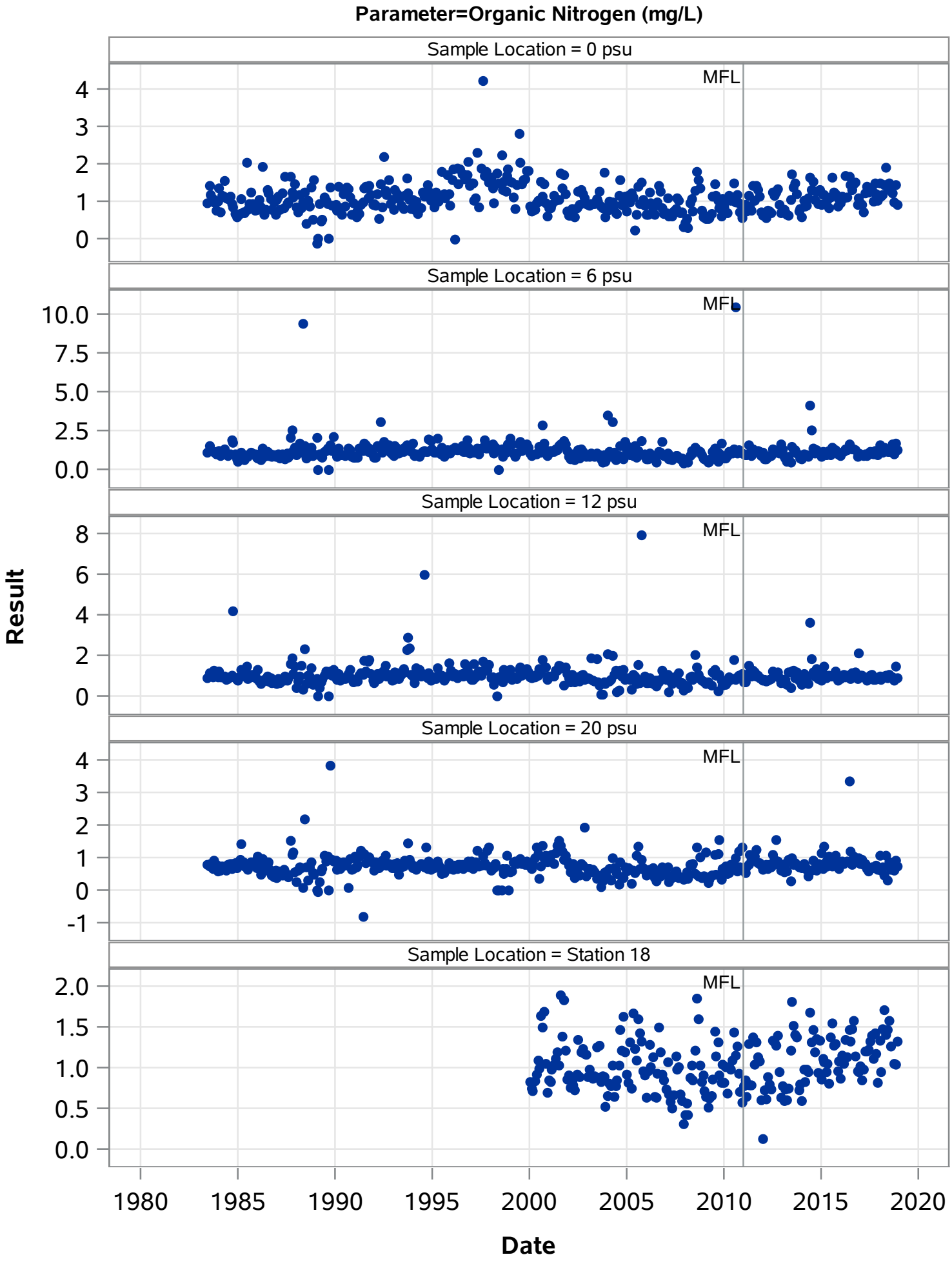

Parameter=Surface Dissolved Oxygen (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

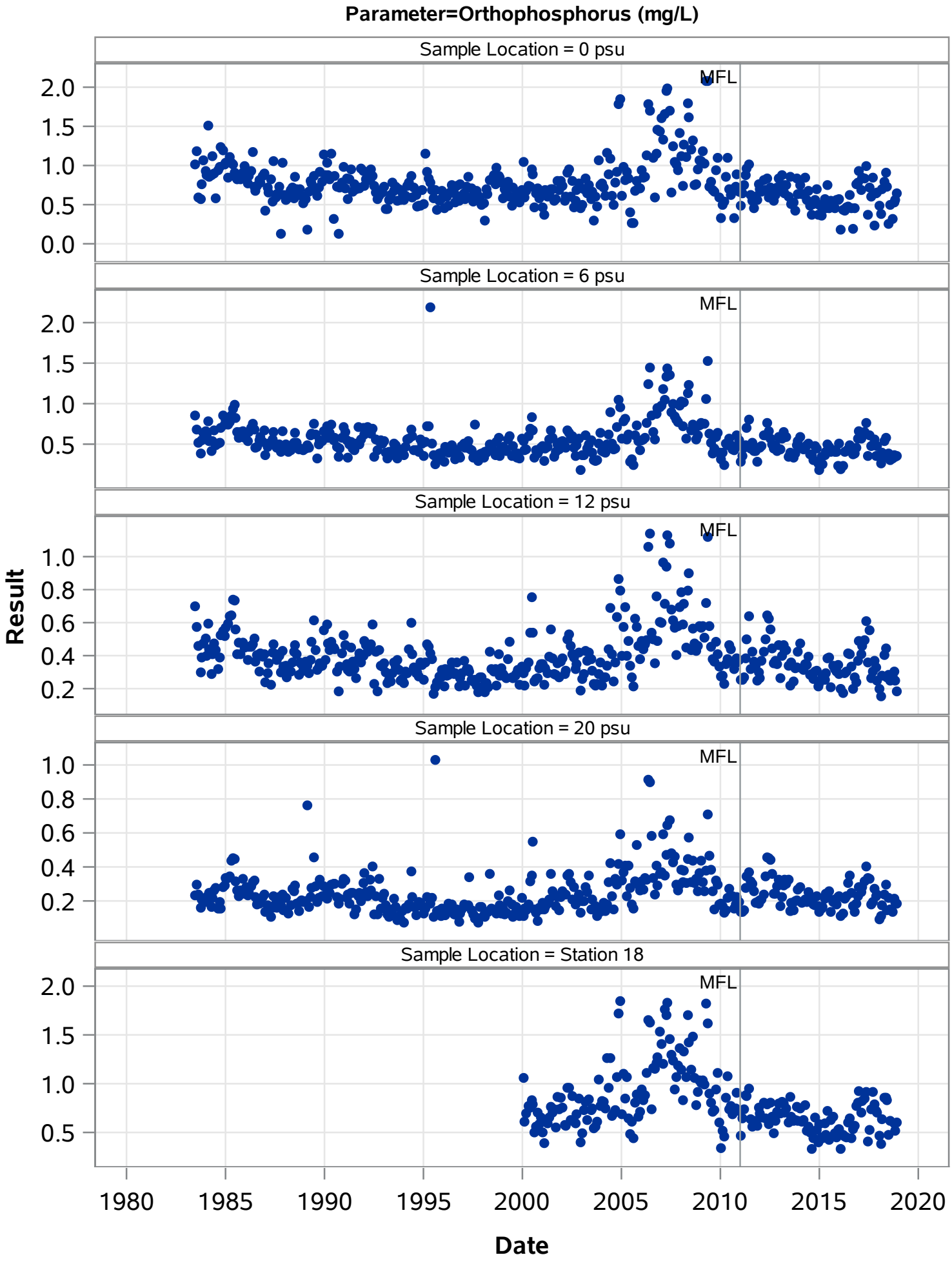

Parameter=Extinction Coeefficient (m-1)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

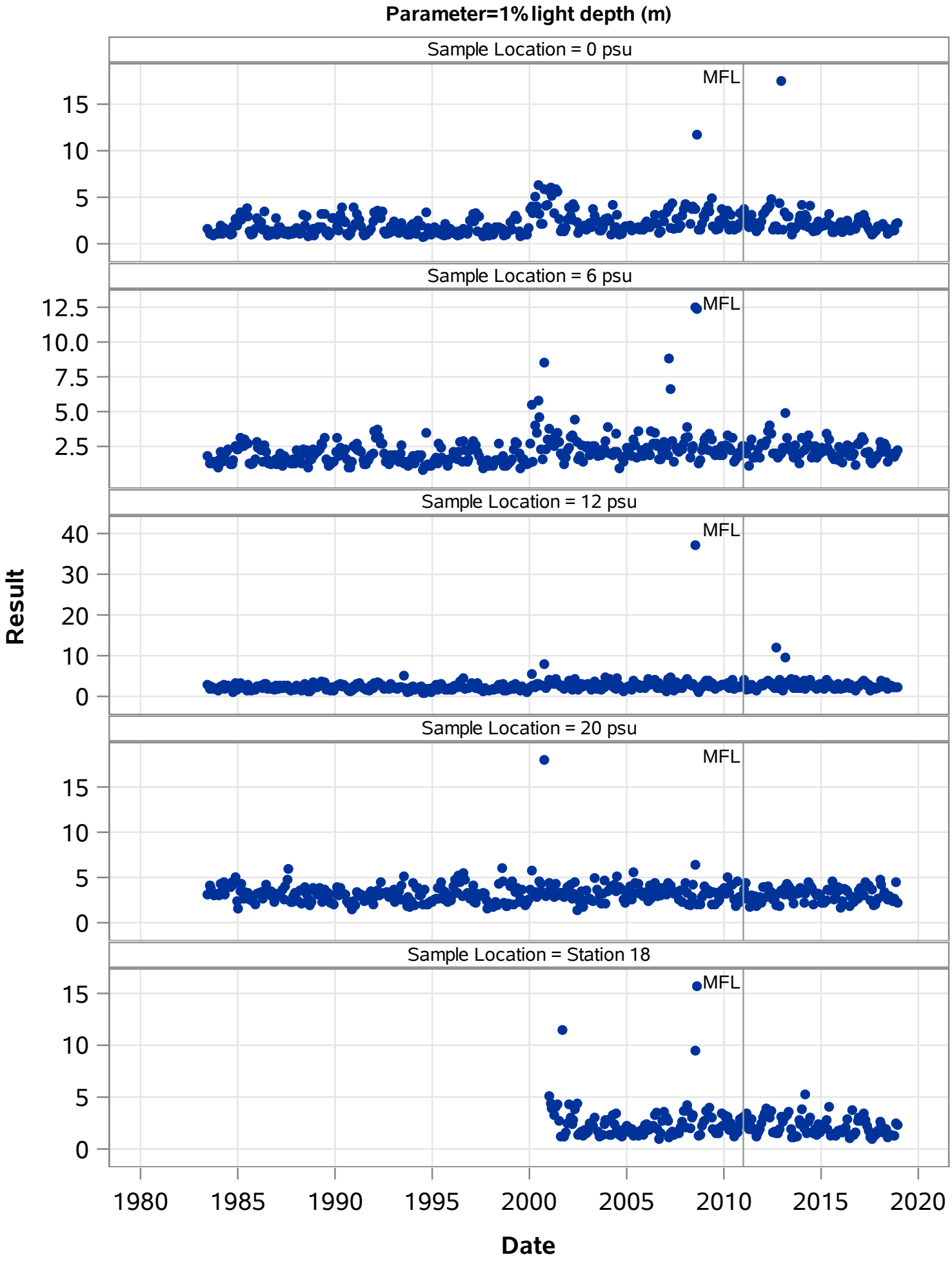

Parameter=Iron (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

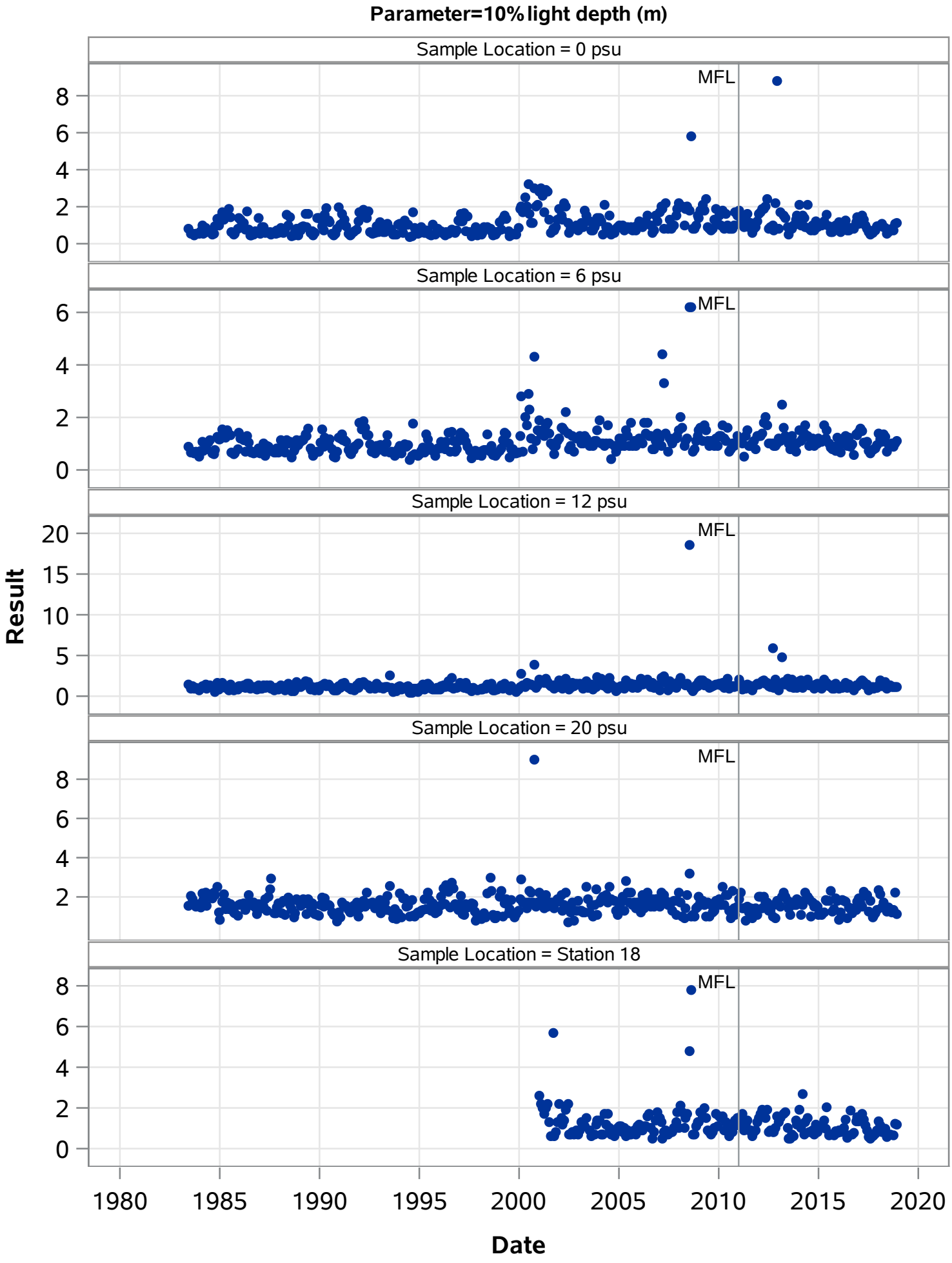

Parameter=Nitrate + Nitrite Nitrogen (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

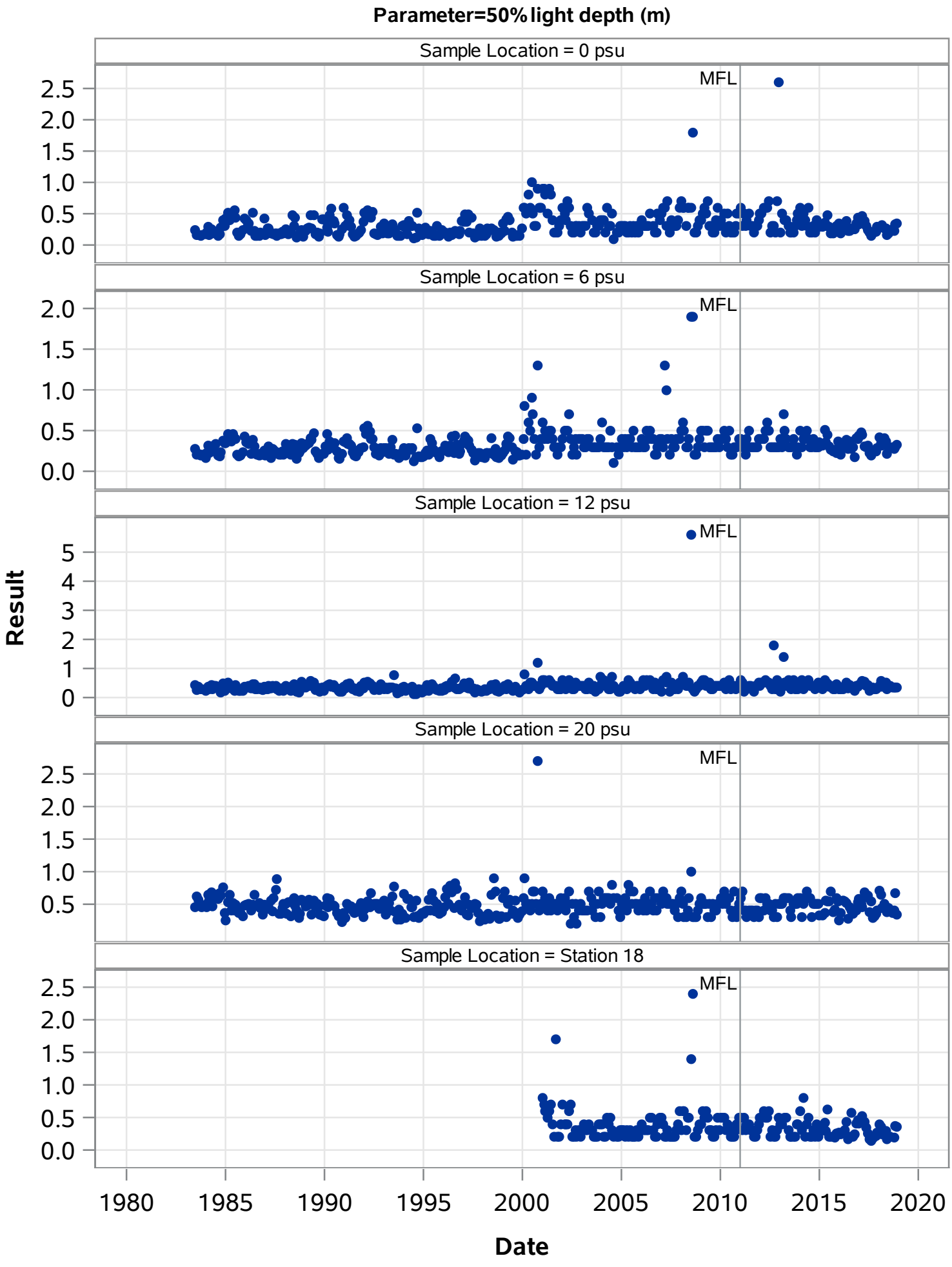

Parameter=Ammonia/Ammonium (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1.0
1.5
1980
1985
1990
1995
2000
2005
2010
2015
2020

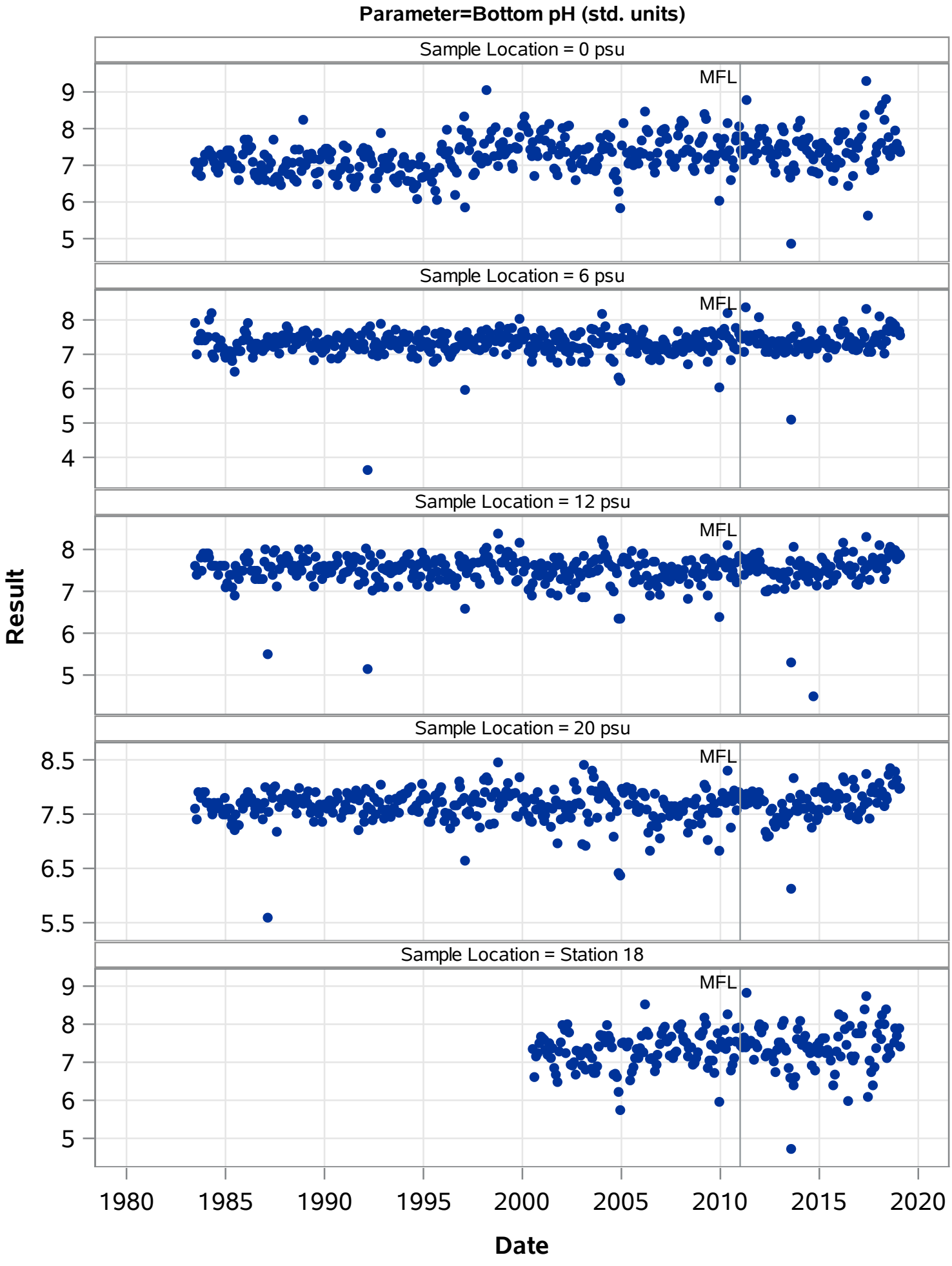

Parameter=Organic Nitrogen (mg/L)
Sample Location = 0 psu
MFL
4
3
2
1
0
Sample Location = 6 psu
MFL
10.0
7.5
5.0
2.5
0.0
Sample Location = 12 psu
MFL
8
6
4
2
0
Sample Location = 20 psu
MFL
4
3
2
1
0
-1
Sample Location = Station 18
MFL
2.0
1.5
1.0
0.5
0.0
Result
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

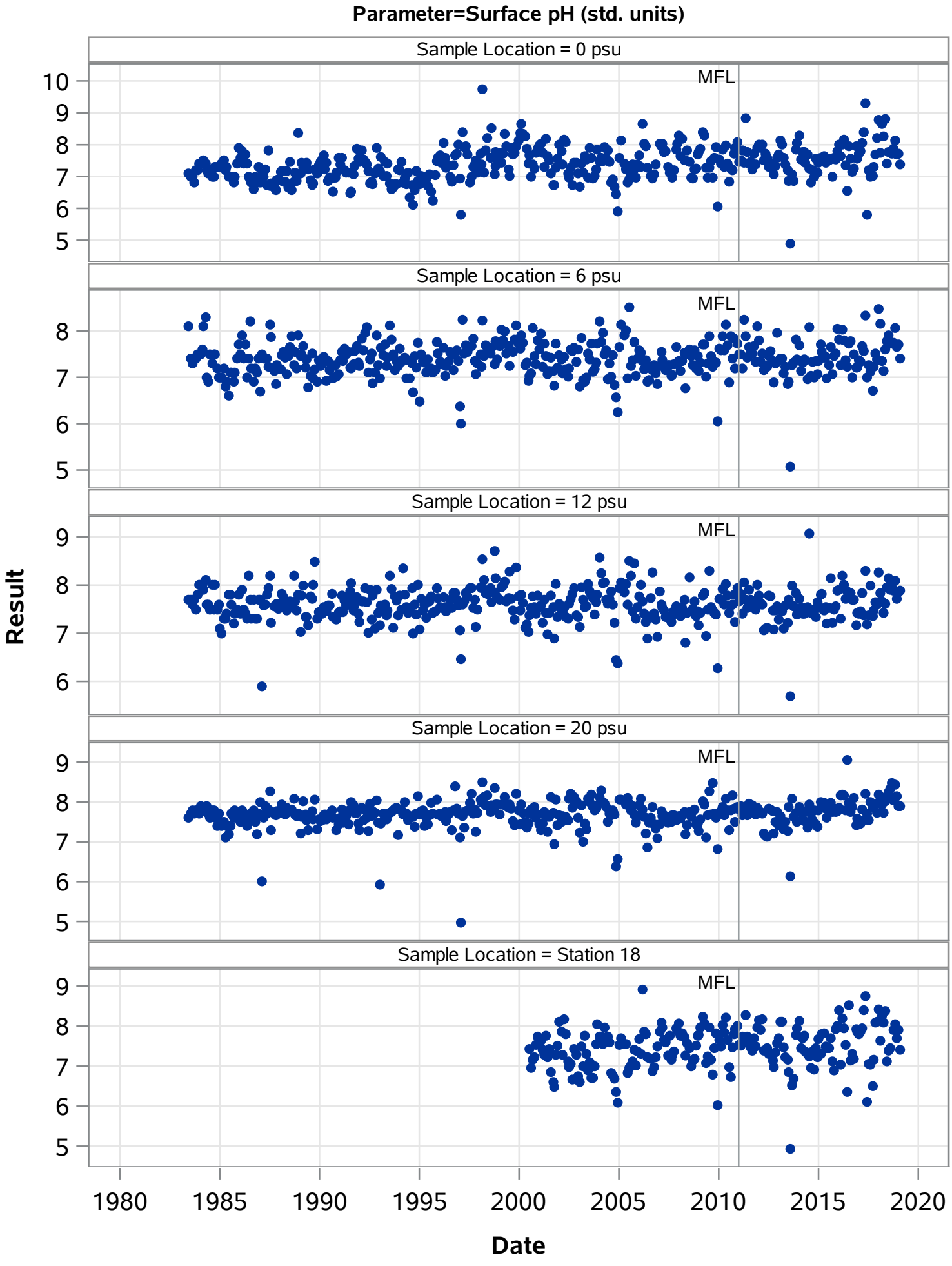

Parameter=Orthophosphorus (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

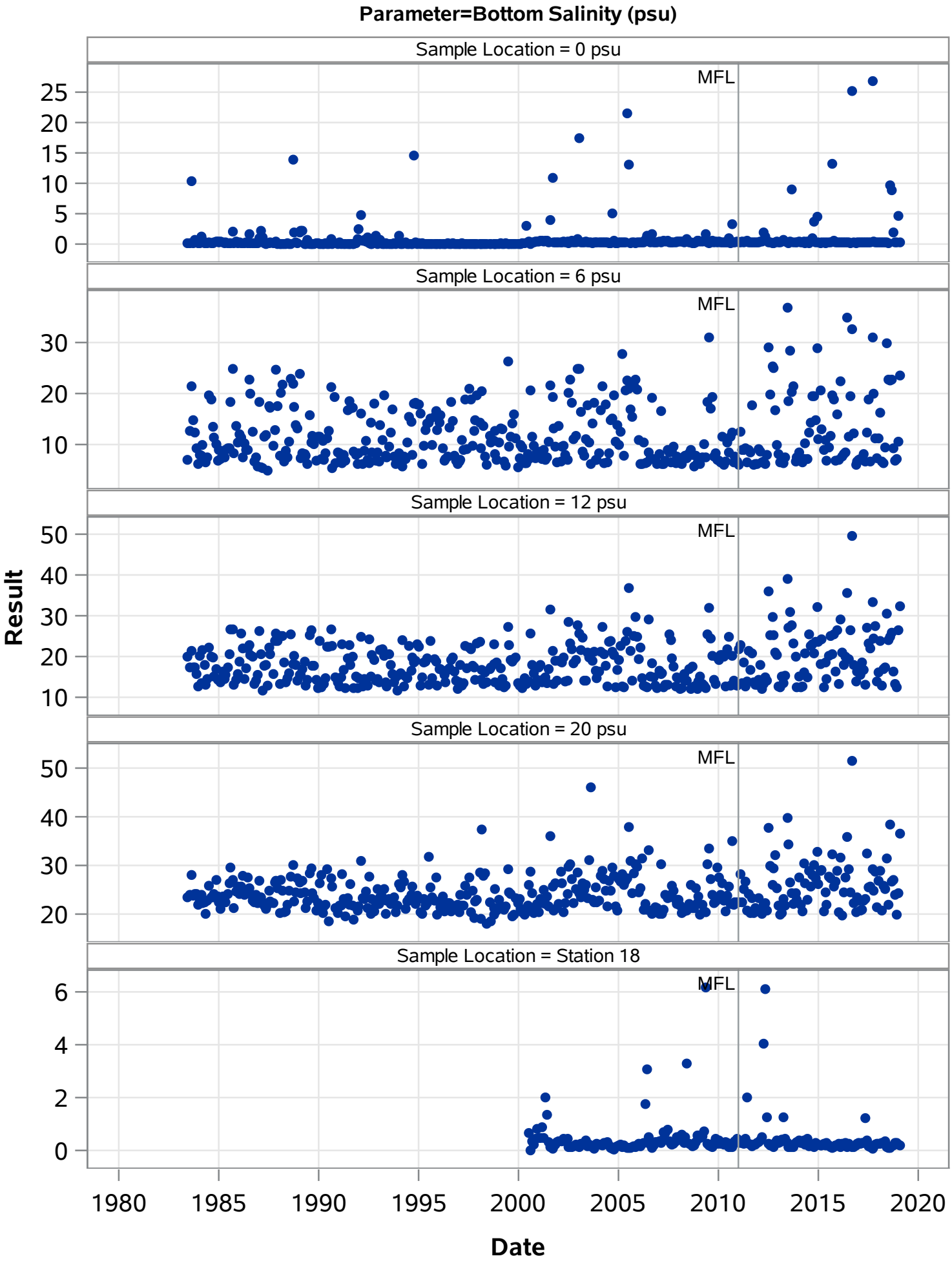

Parameter=1% light depth (m)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

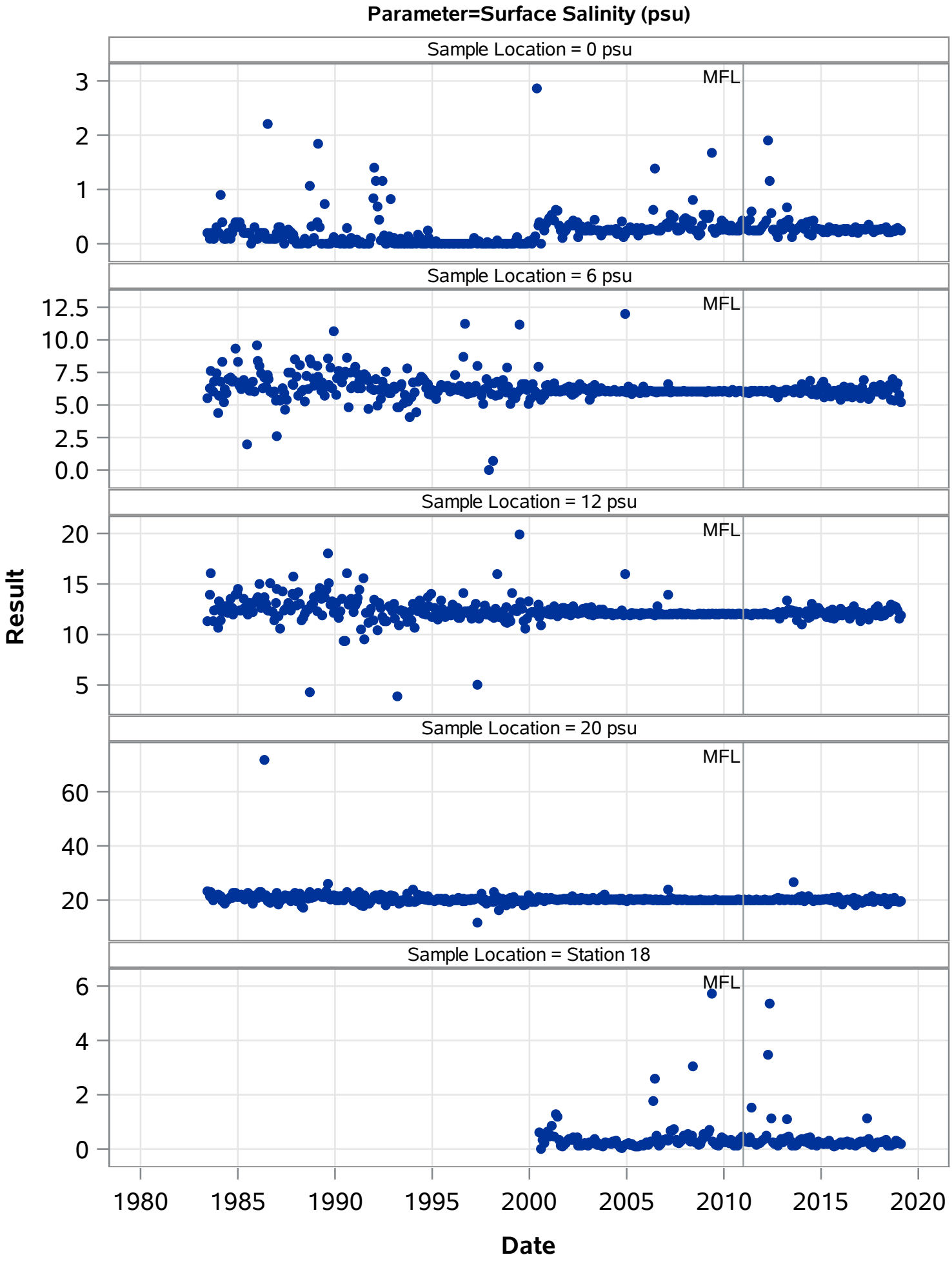

Parameter=10% light depth (m)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

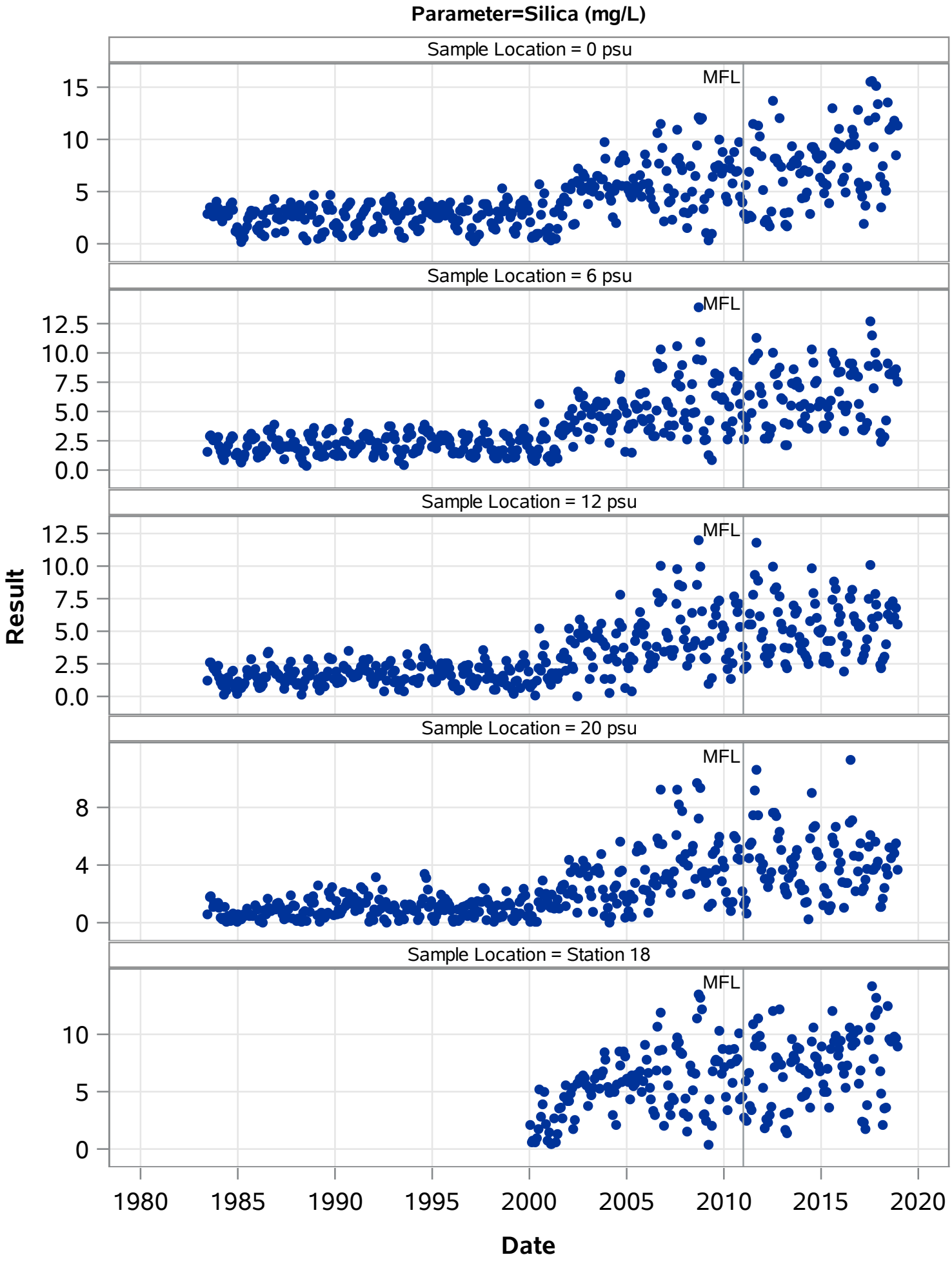

Parameter=50% light depth (m)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

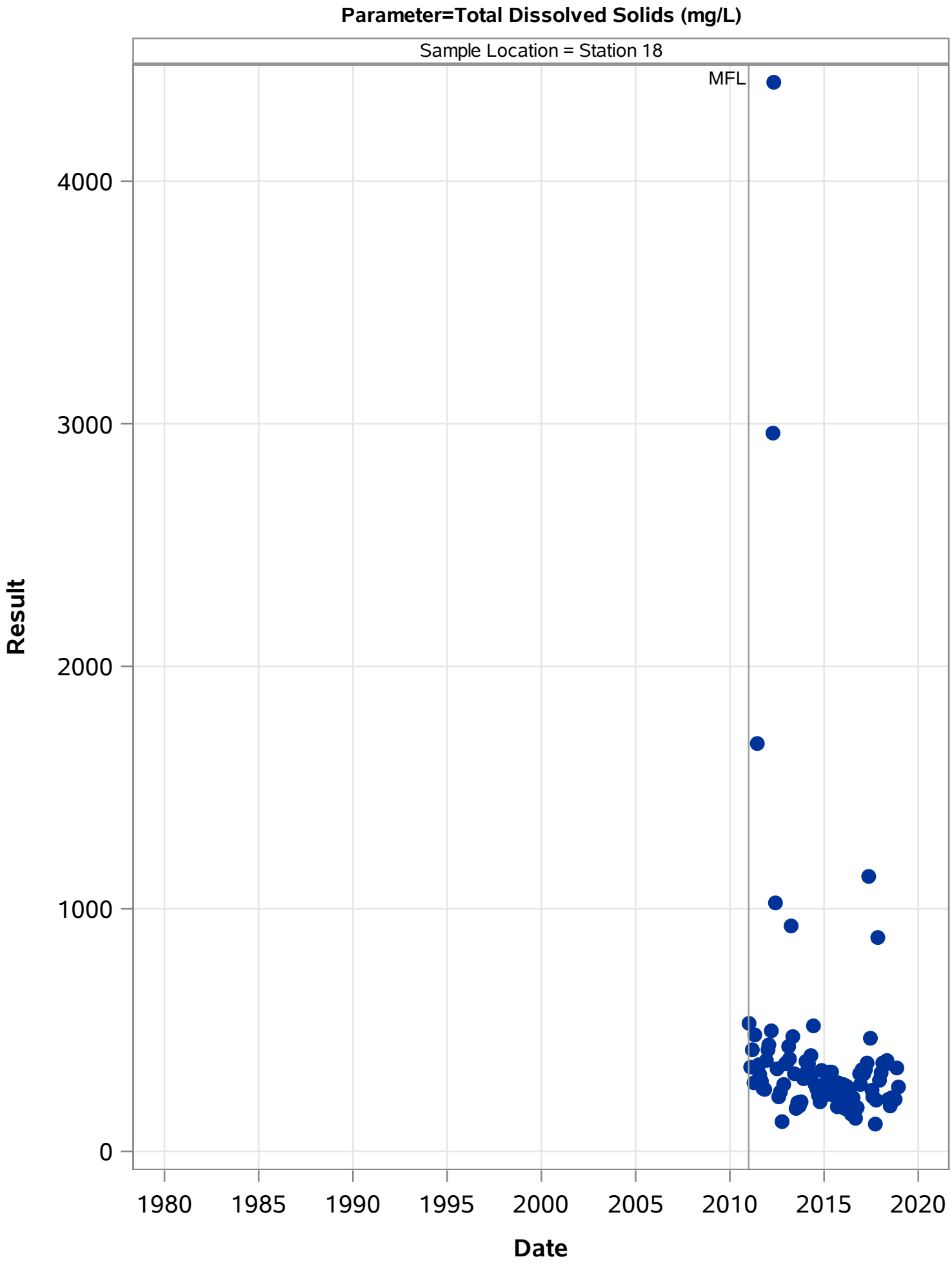

Parameter=Bottom pH (std. units)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

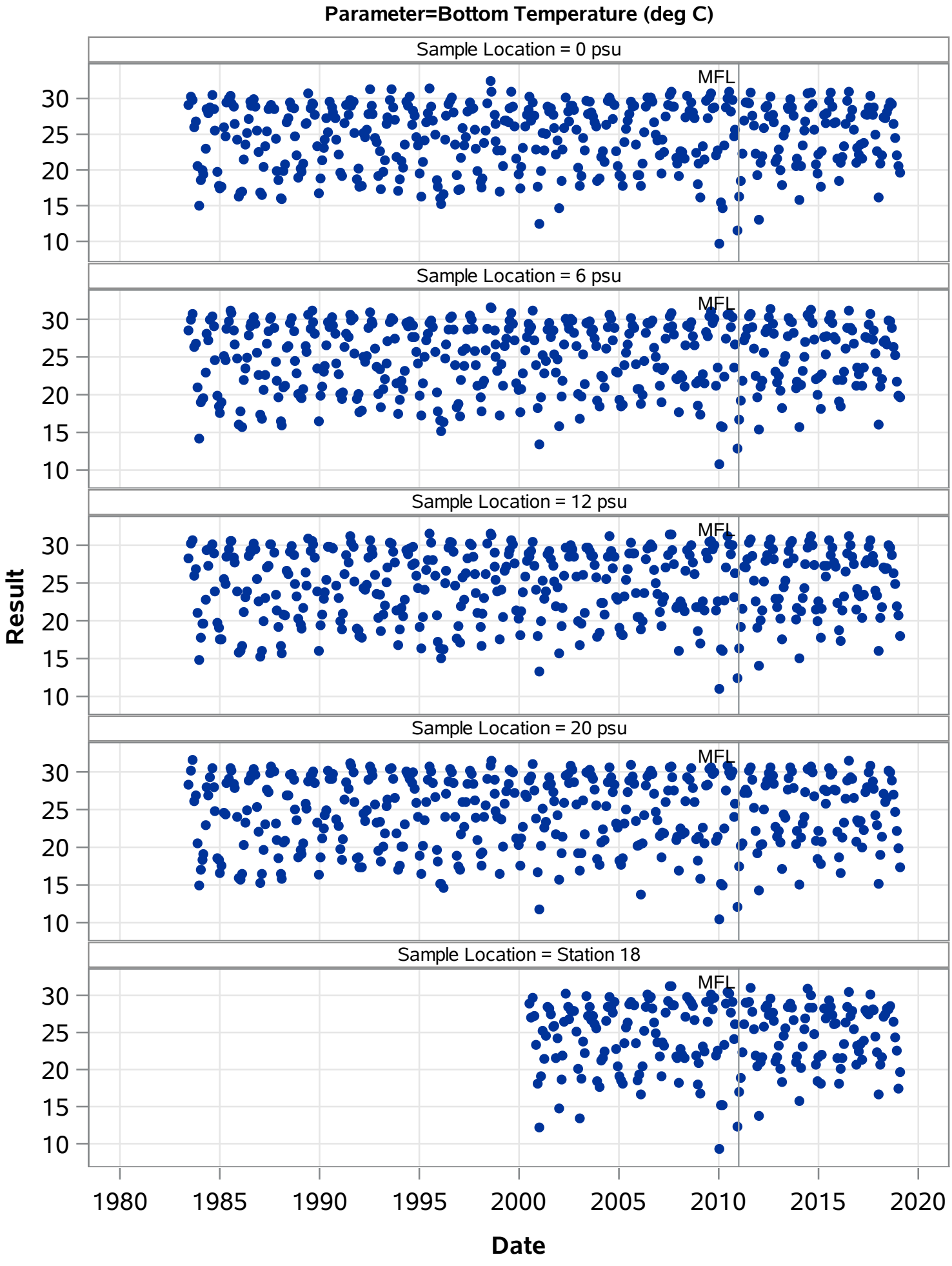

Parameter=Surface pH (std. units)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

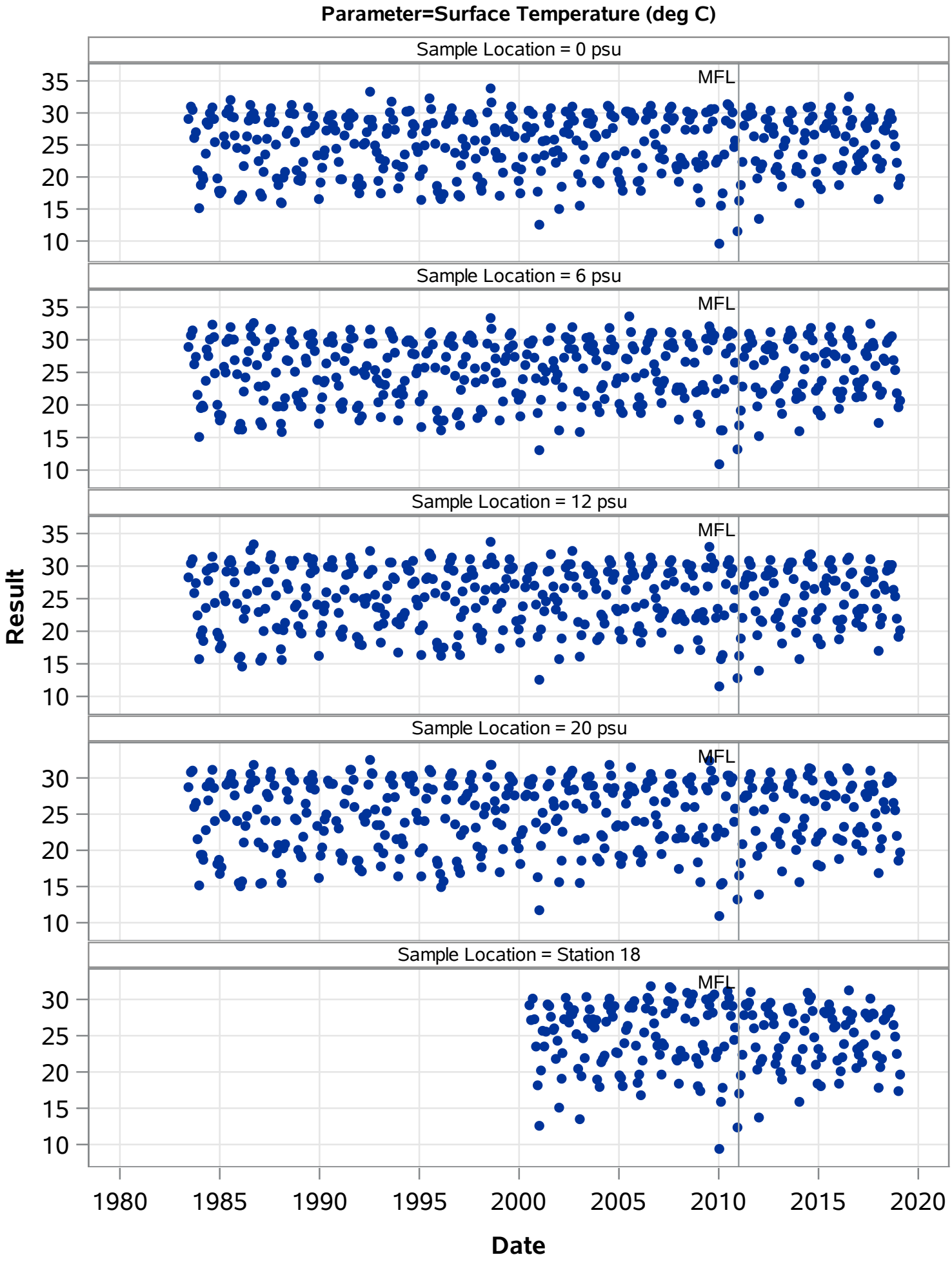

Parameter=Bottom Salinity (psu)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

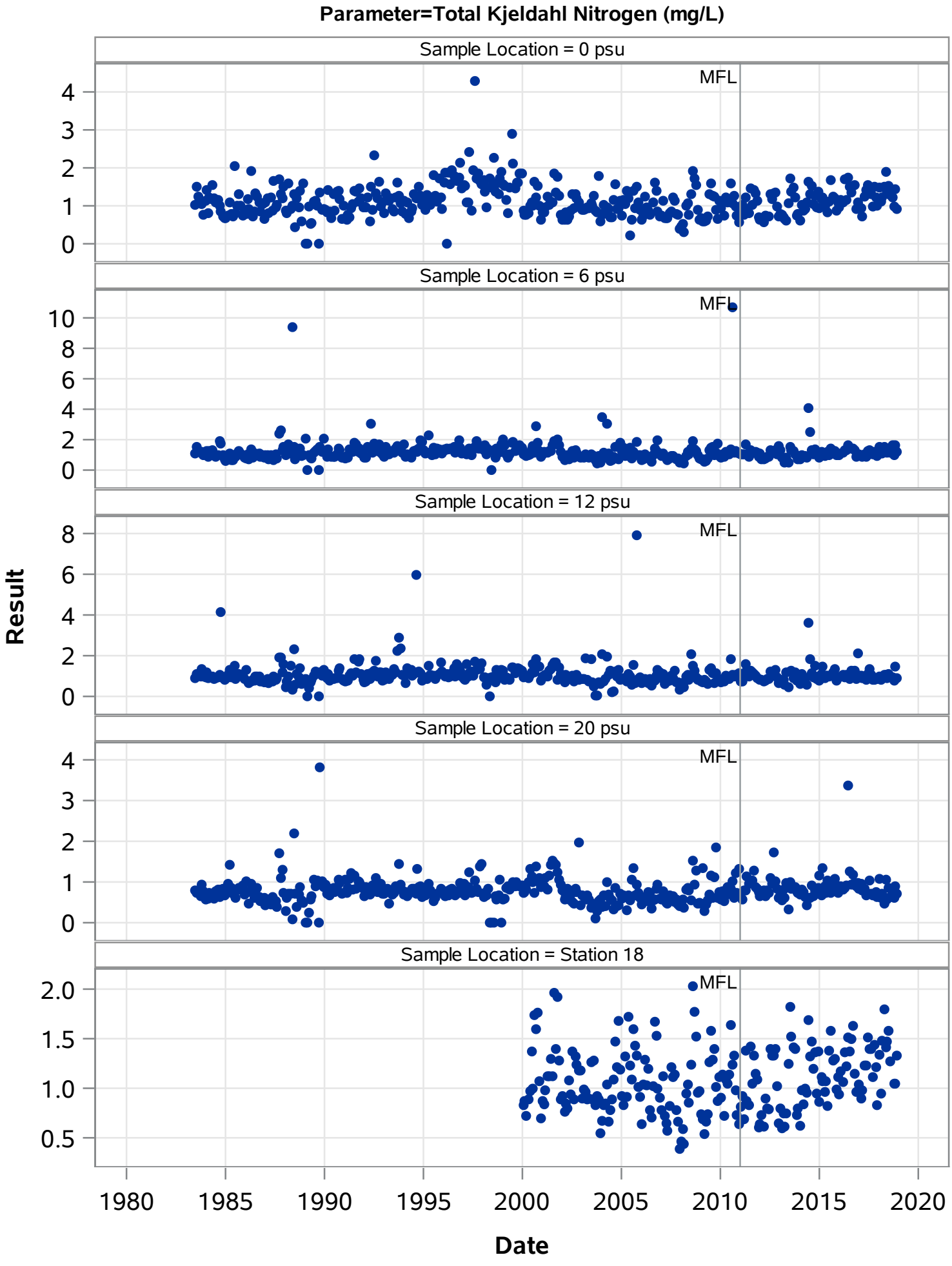

Parameter=Surface Salinity (psu)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

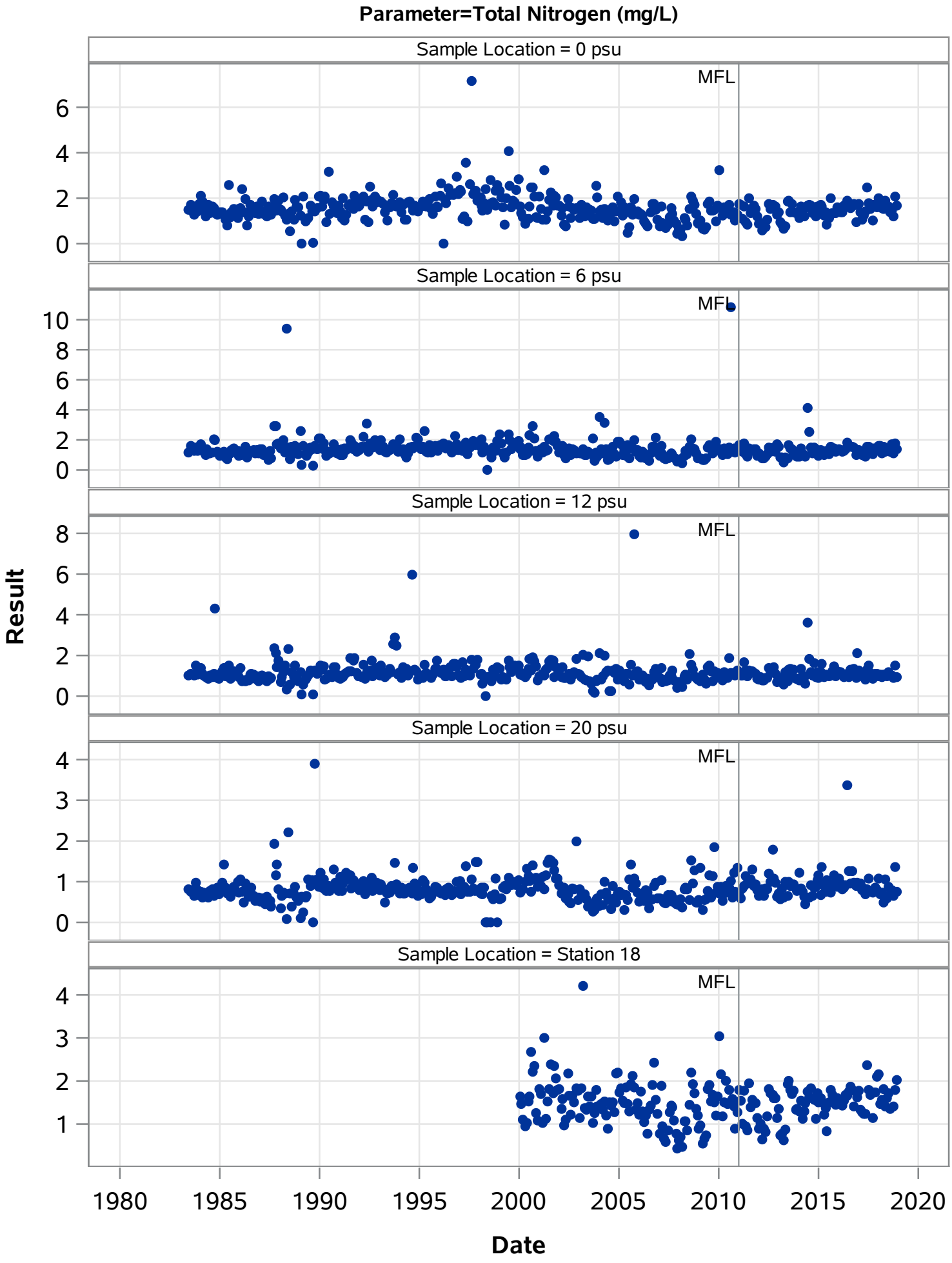

Parameter=Silica (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

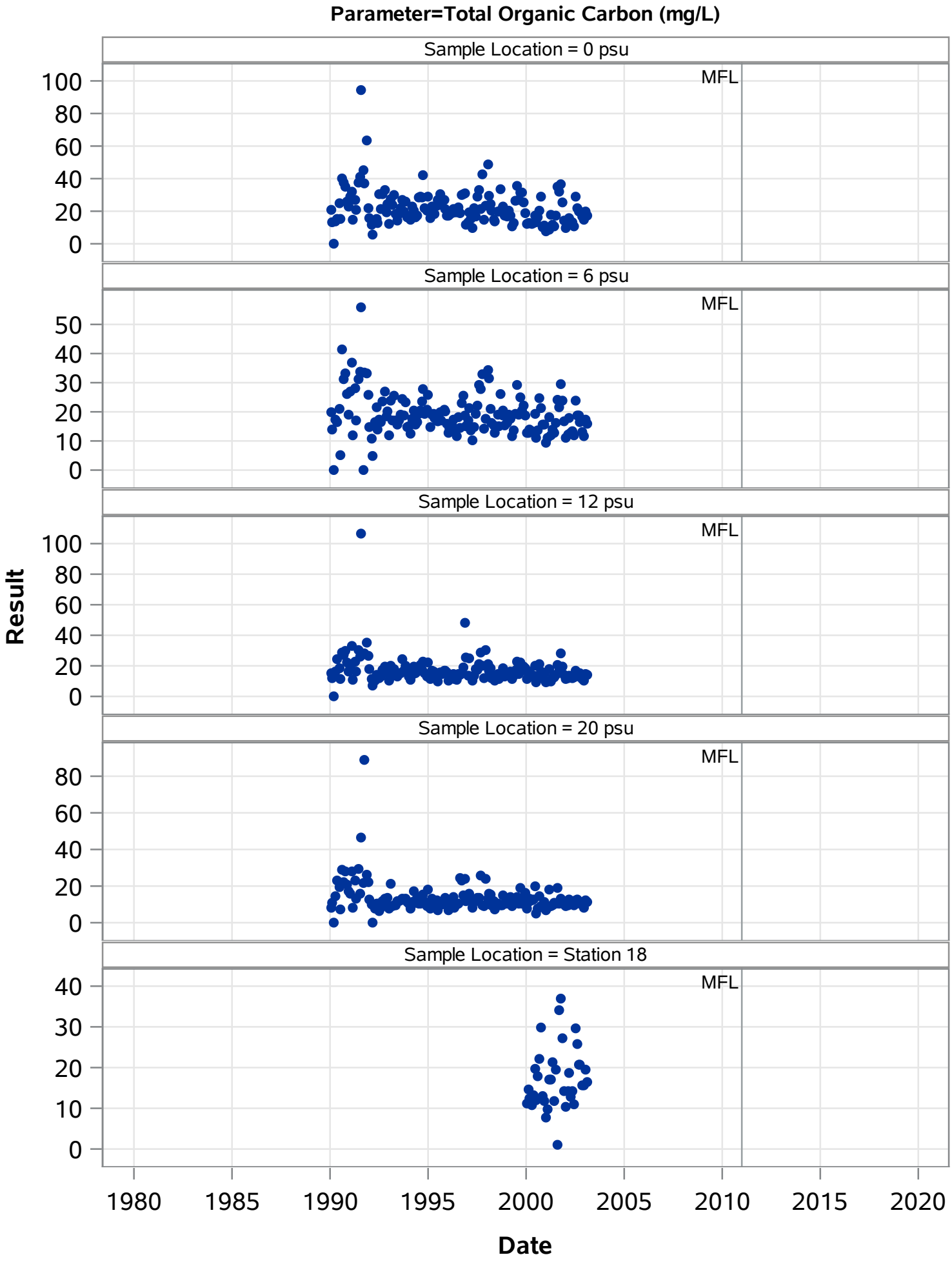

Parameter=Total Dissolved Solids (mg/L)
Sample Location = Station 18
MFL
4000
3000
2000
1000
0
Result
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

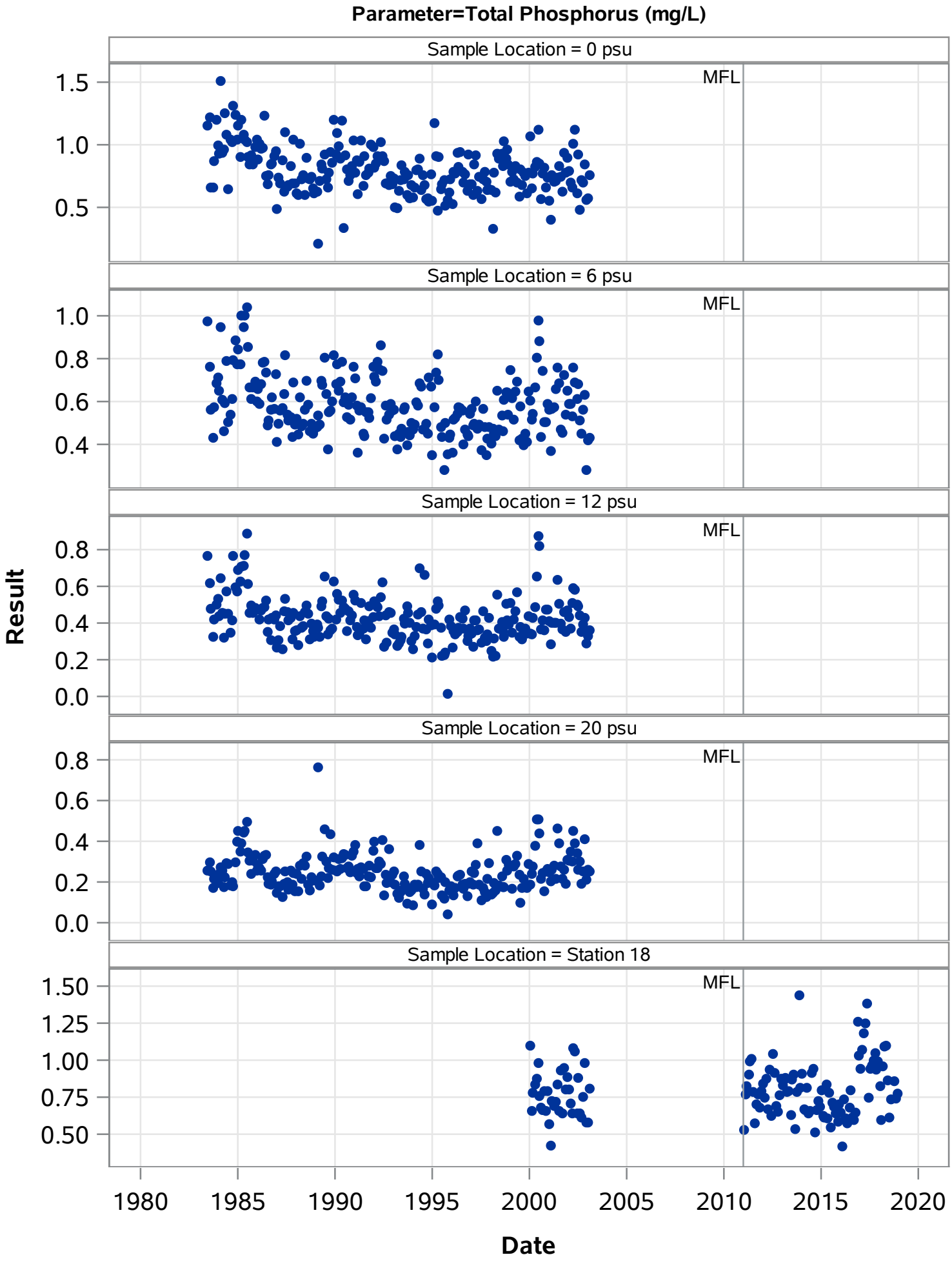

Parameter=Bottom Temperature (deg C)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
10
15
20
25
30
1980
1985
1990
1995
2000
2005
2010
2015
2020

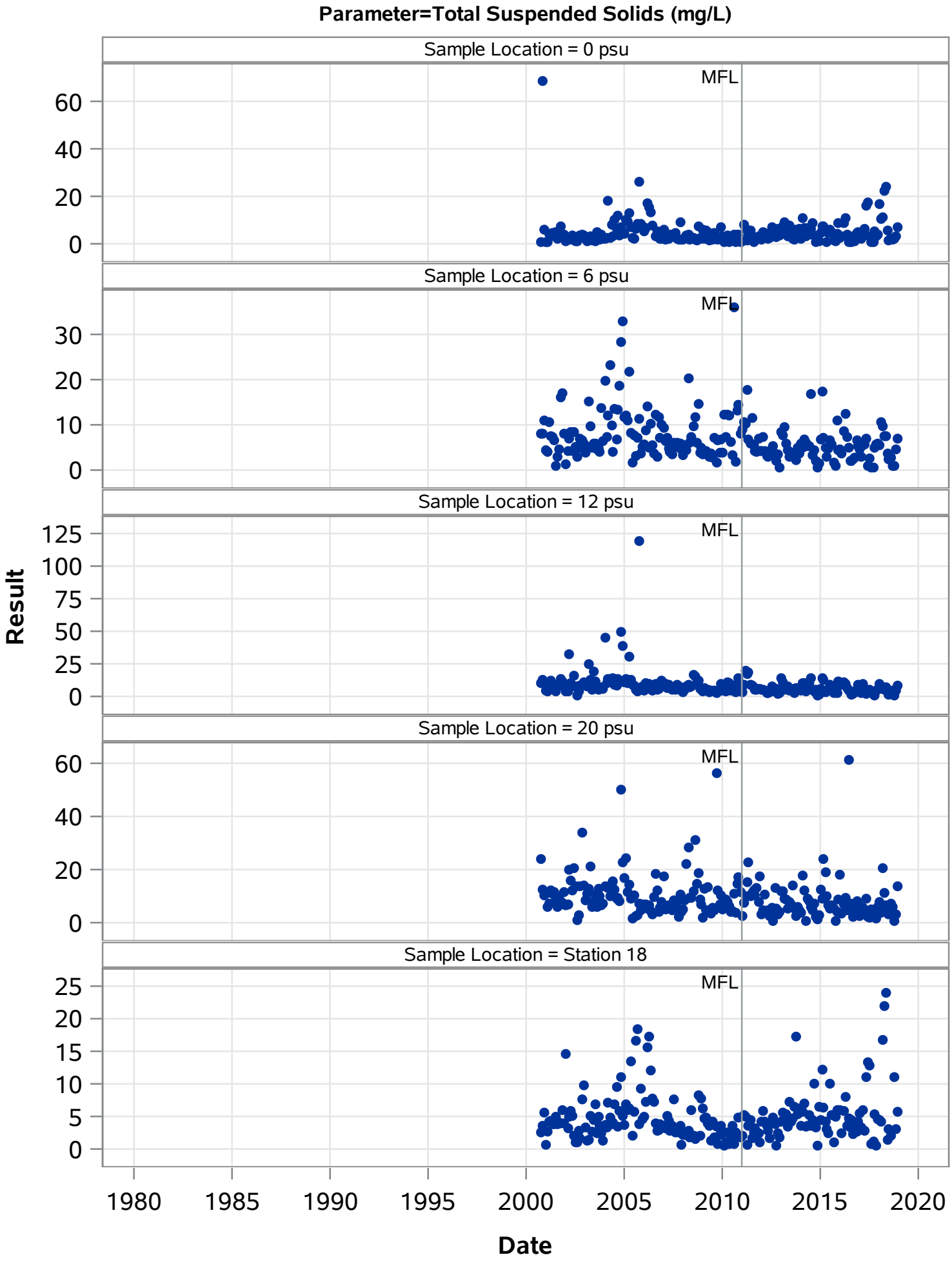

Parameter=Surface Temperature (deg C)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
35
30
25
20
15
10
1980
1985
1990
1995
2000
2005
2010
2015
2020

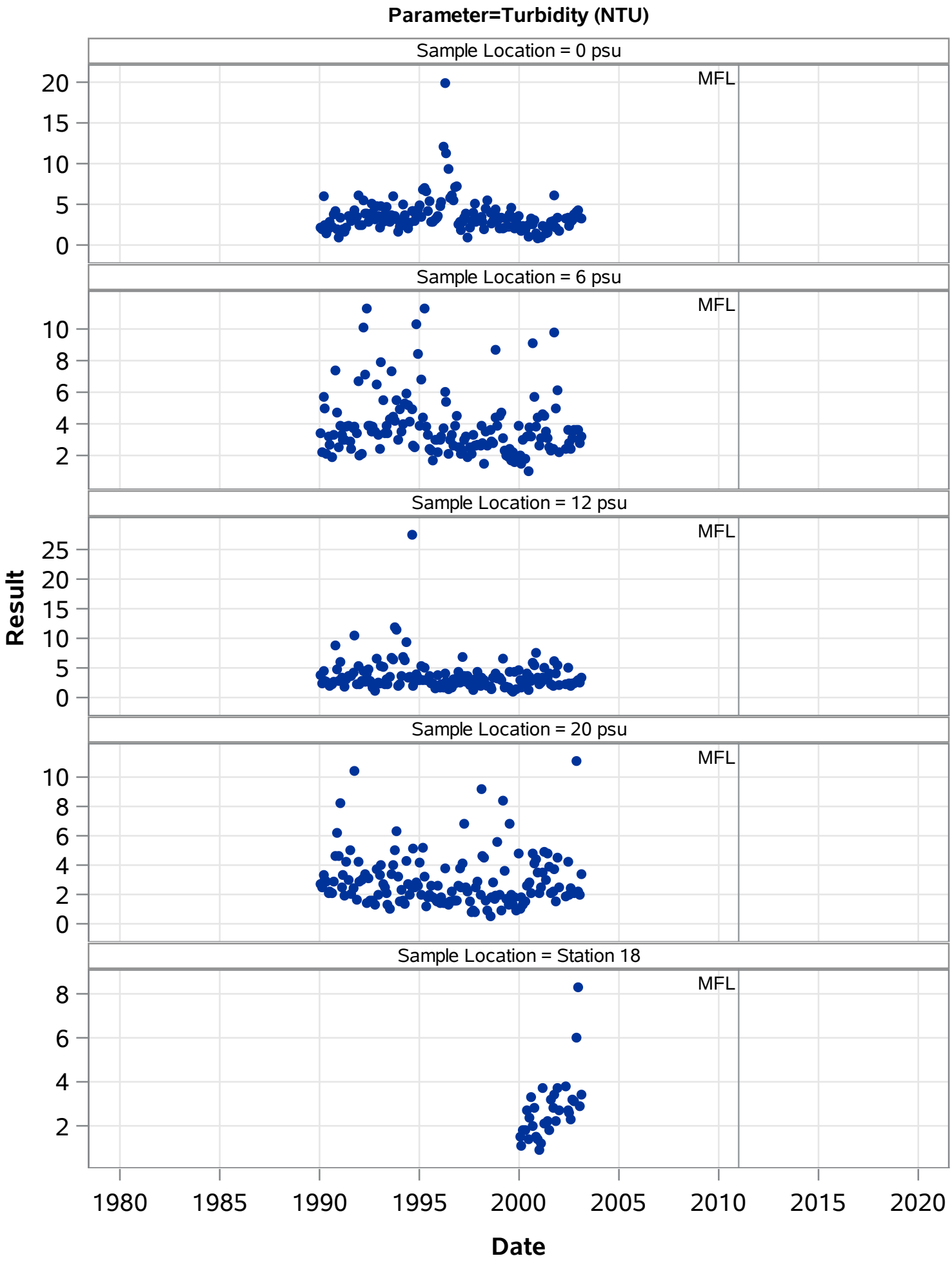

Parameter=Total Kjeldahl Nitrogen (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

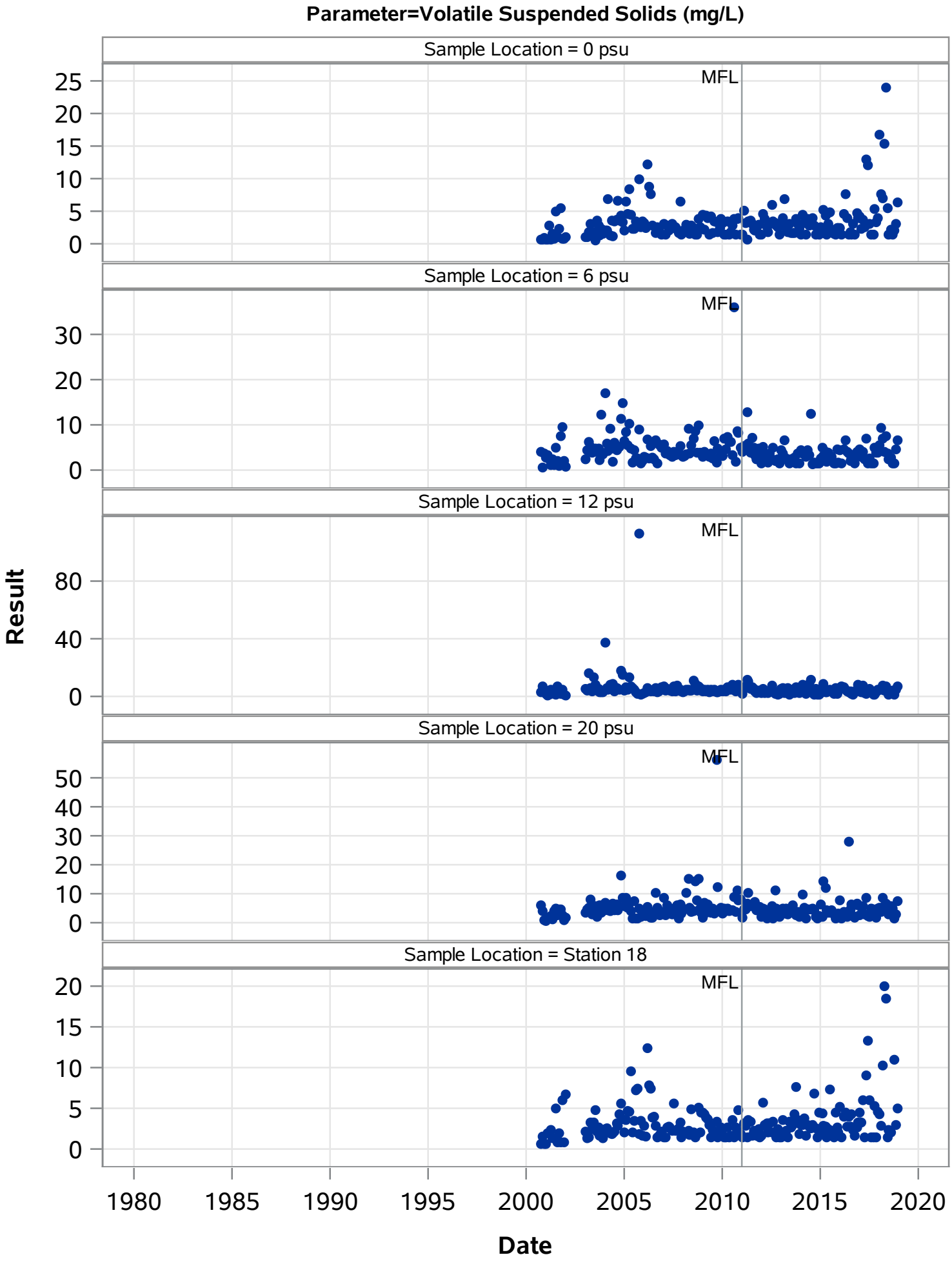

Parameter=Total Nitrogen (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

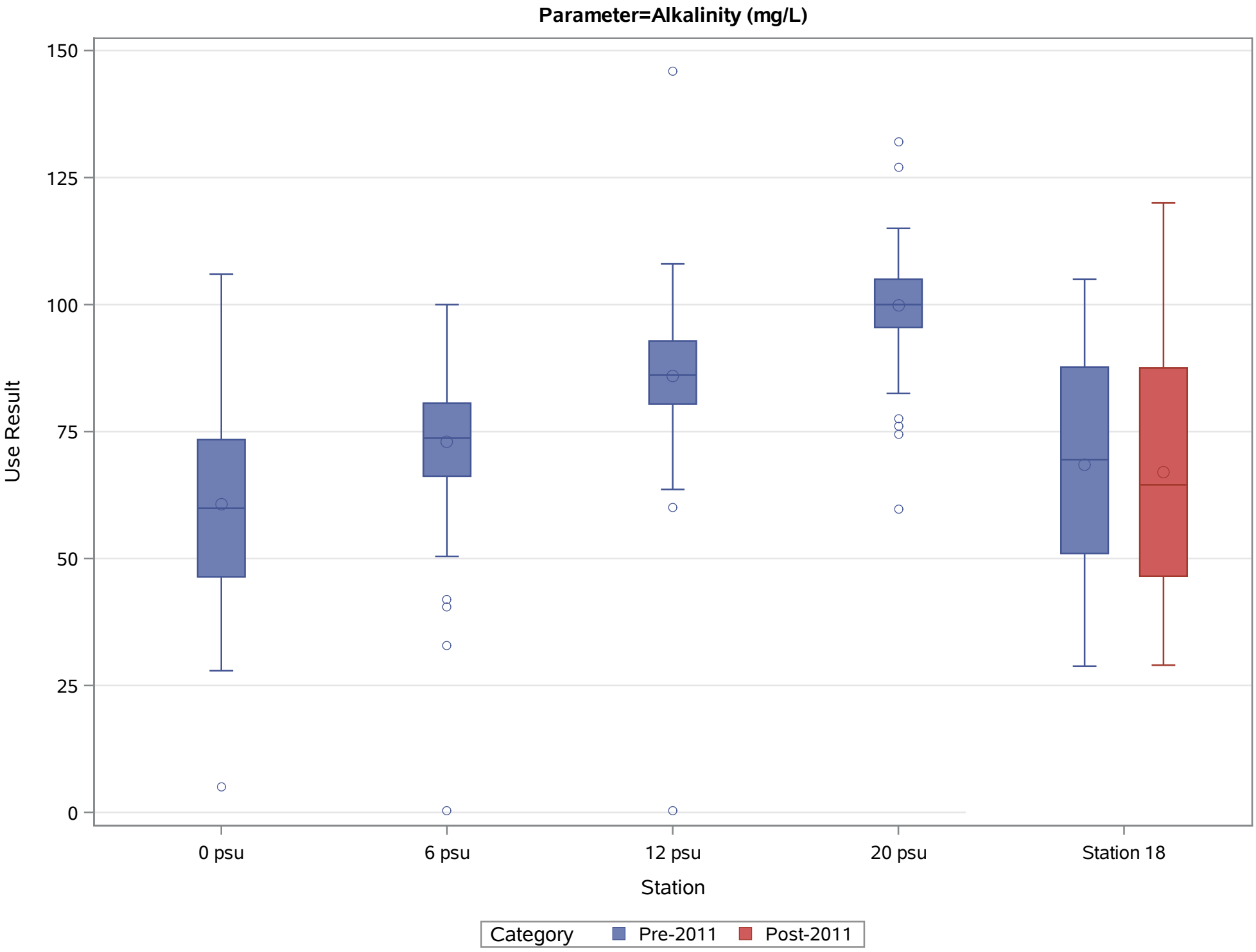

Parameter=Total Organic Carbon (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

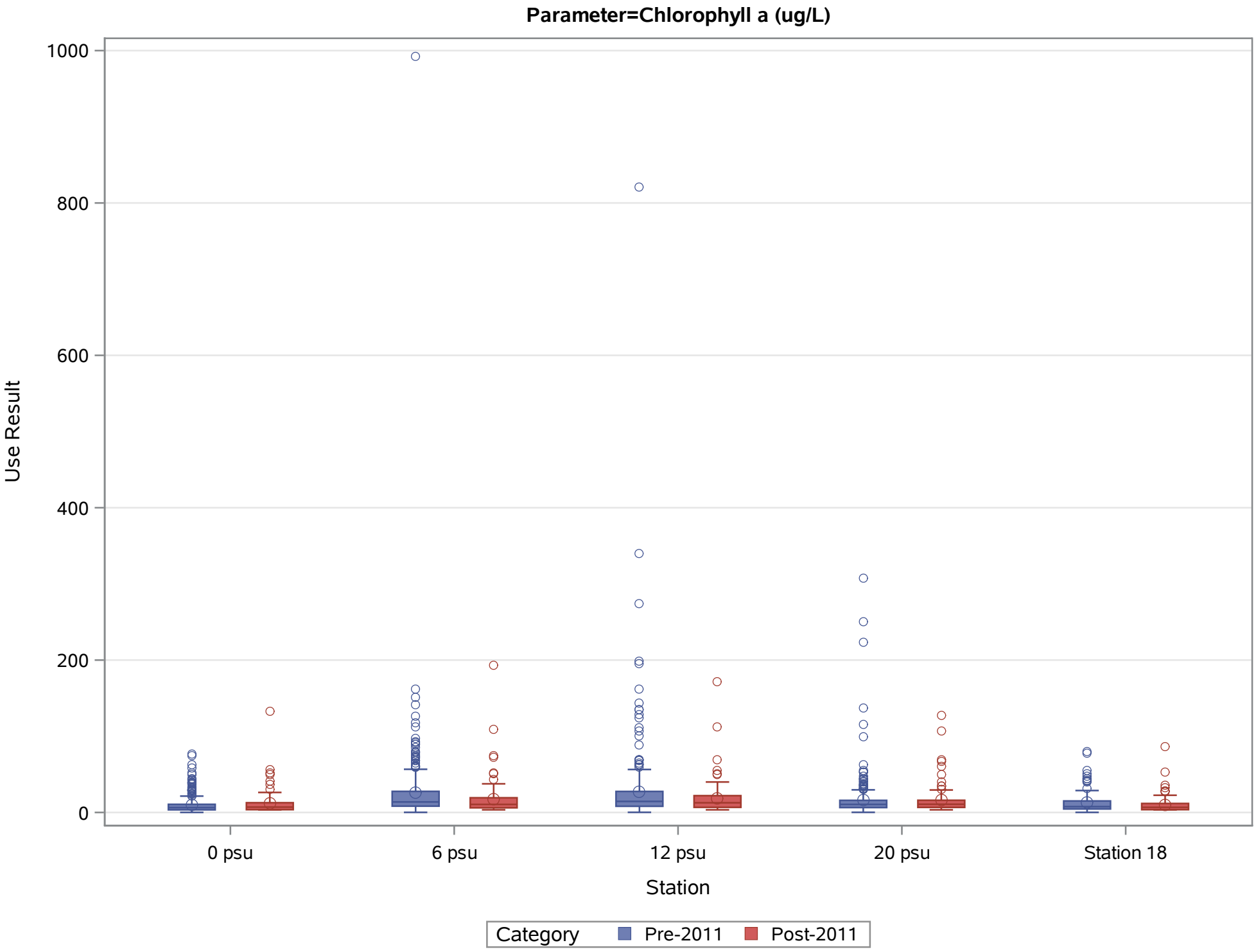

Parameter=Total Phosphorus (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1.5
1.0
0.5
0.8
0.6
0.4
0.2
0.0
1.50
1.25
1.00
0.75
0.50
1980
1985
1990
1995
2000
2005
2010
2015
2020

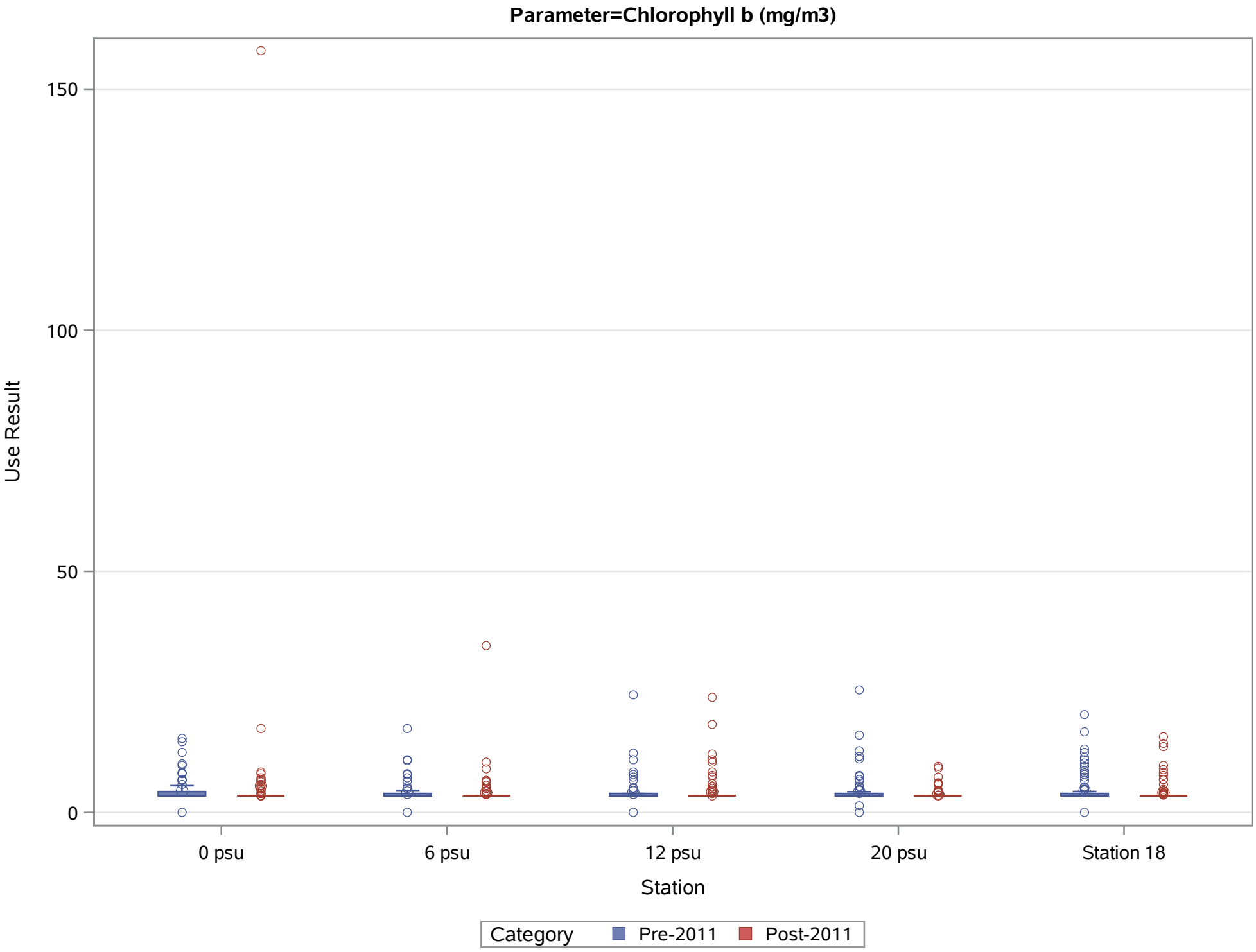

Parameter=Total Suspended Solids (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

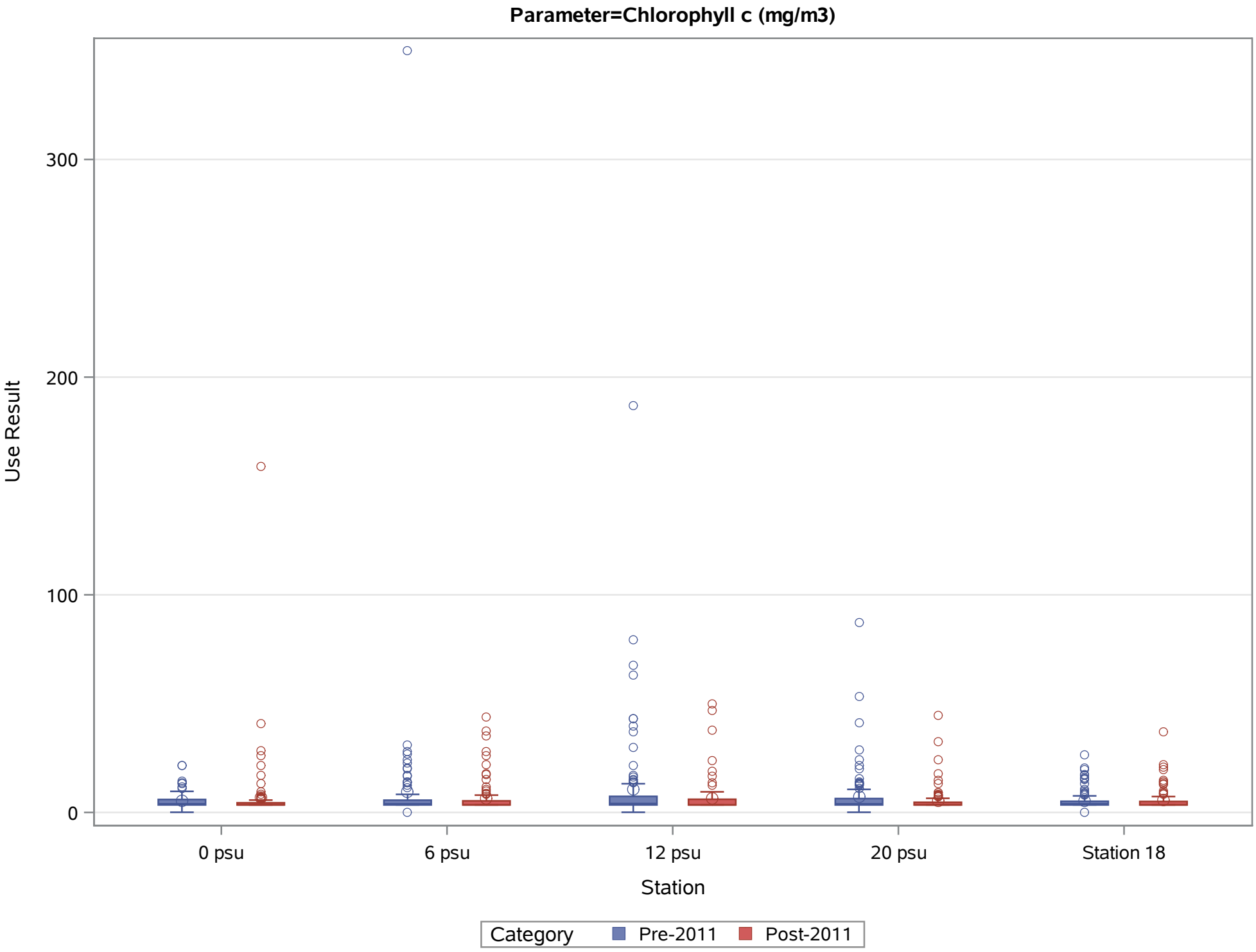

Parameter=Turbidity (NTU)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

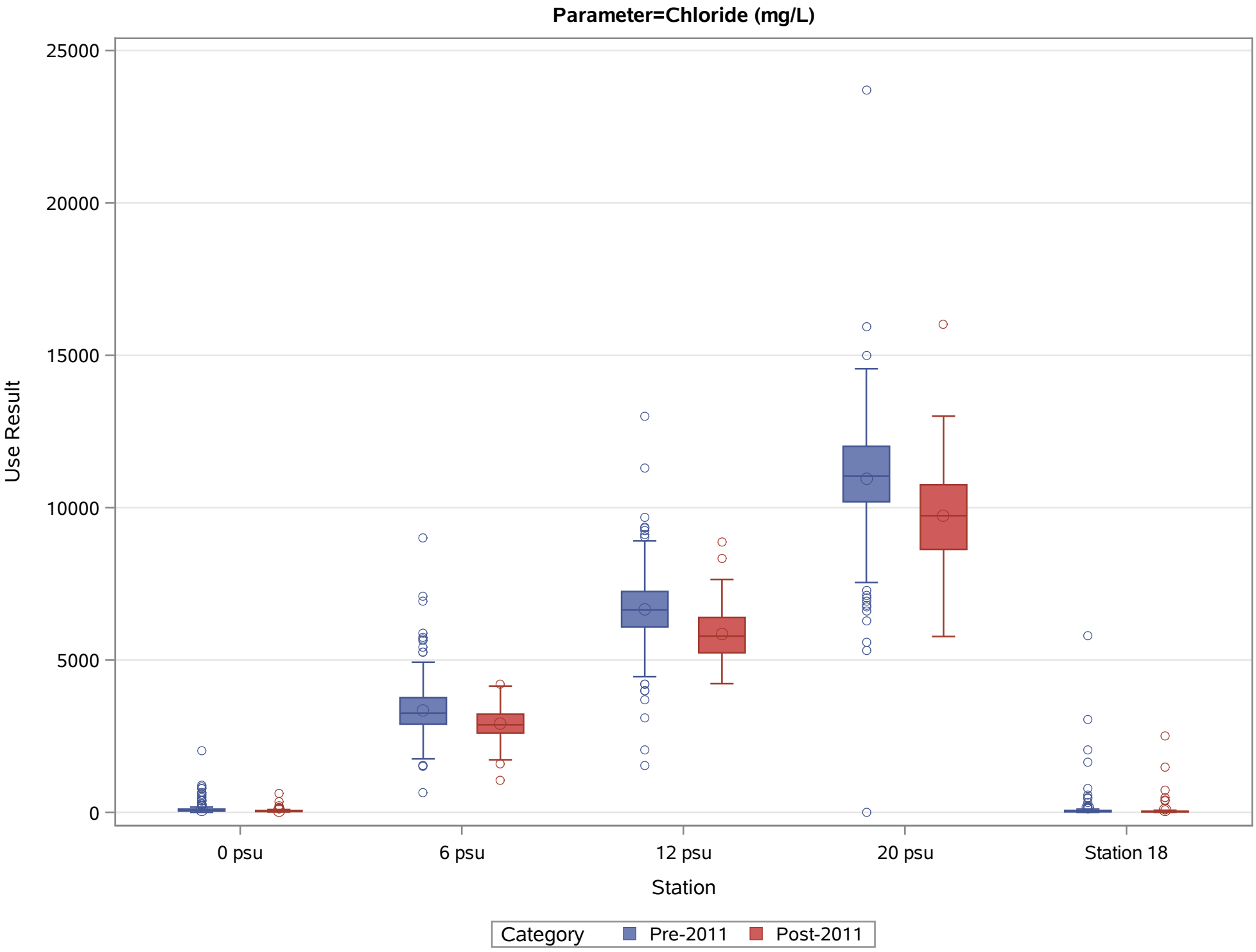

Parameter=Volatile Suspended Solids (mg/L)
Sample Location = 0 psu
Sample Location = 6 psu
Sample Location = 12 psu
Sample Location = 20 psu
Sample Location = Station 18
MFL
Result
Date
1980
1985
1990
1995
2000
2005
2010
2015
2020

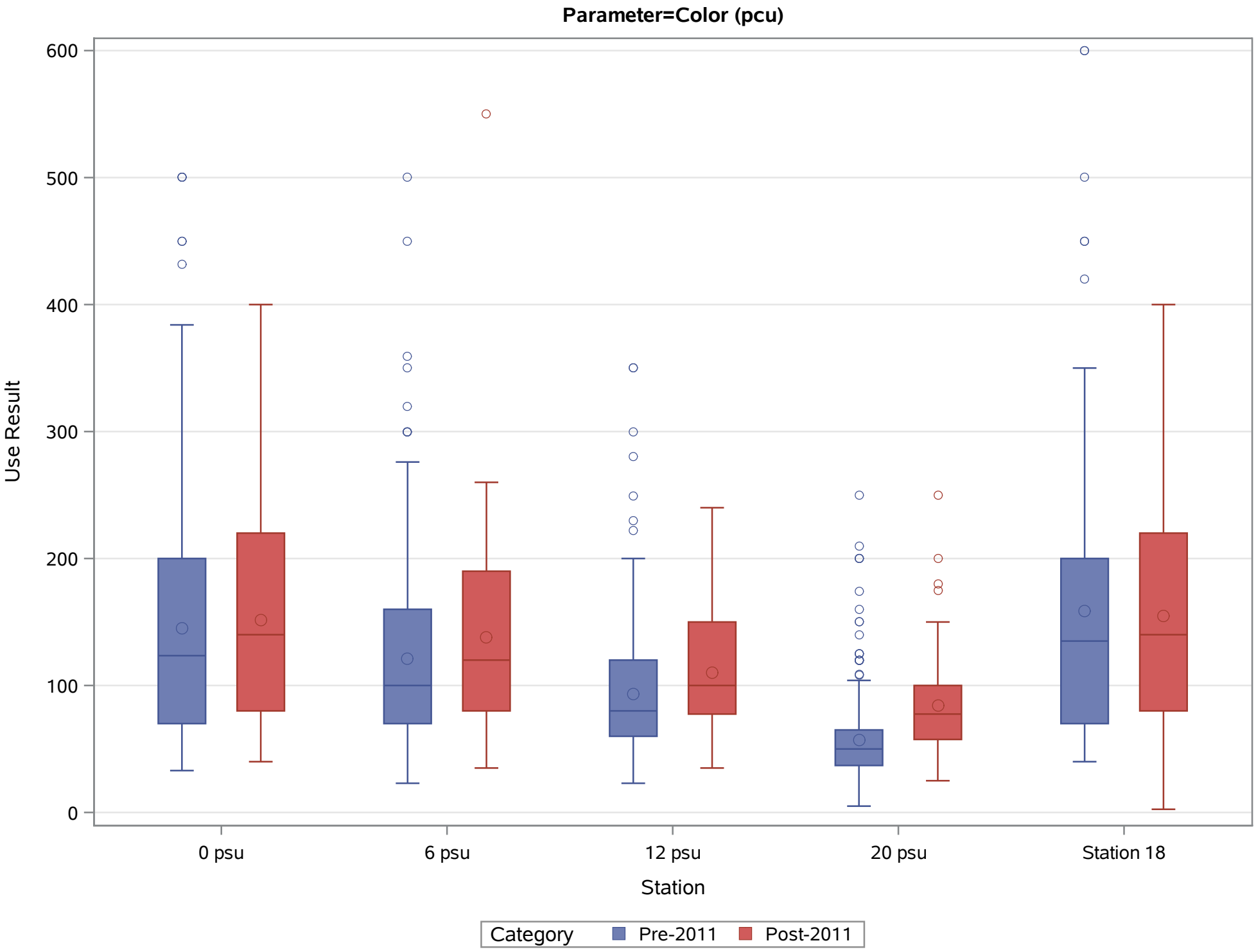

Parameter=Alkalinity (mg/L)
150
125
100
75
50
25
0
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

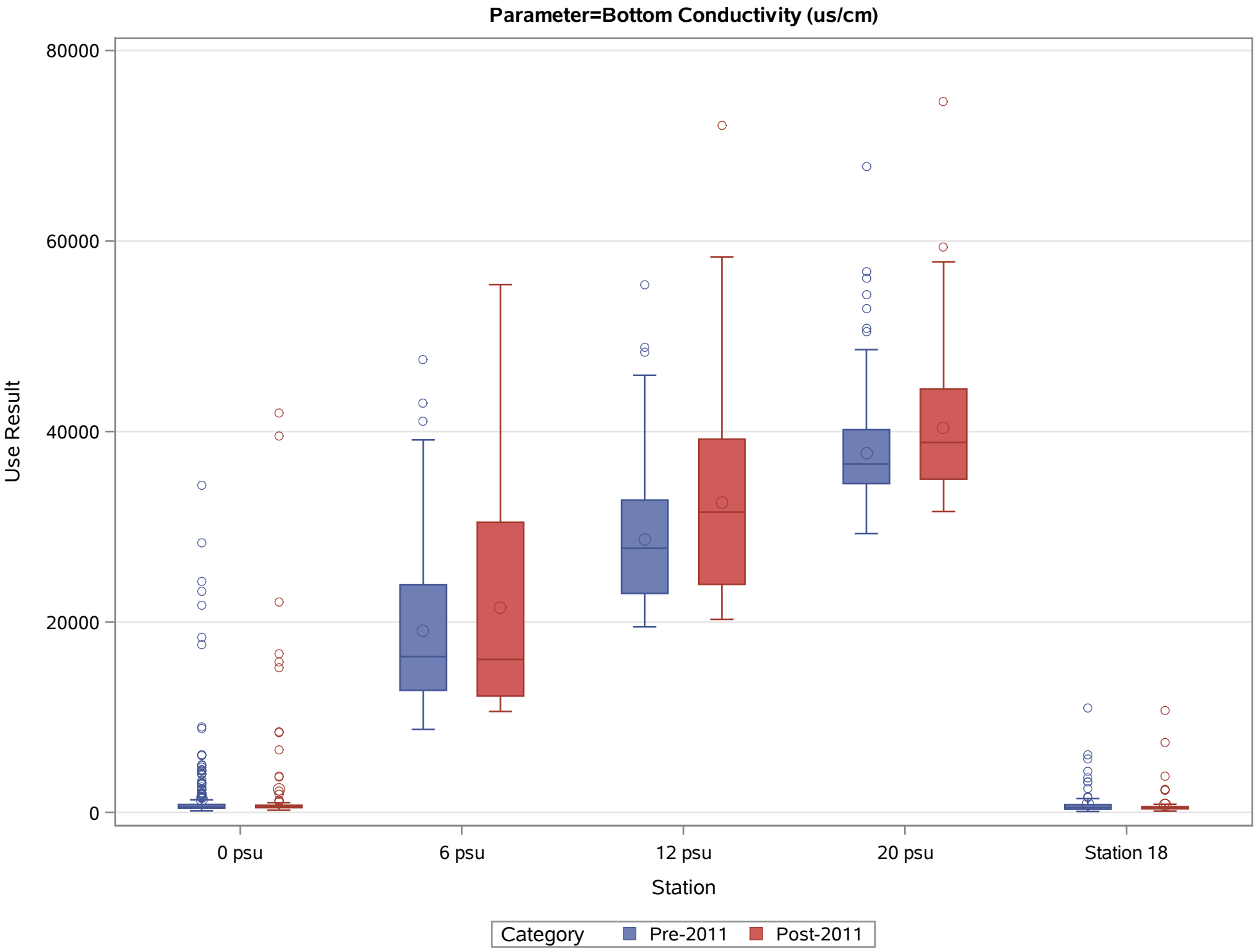

Parameter=Chlorophyll a (ug/L)
1000
800
600
400
200
0
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

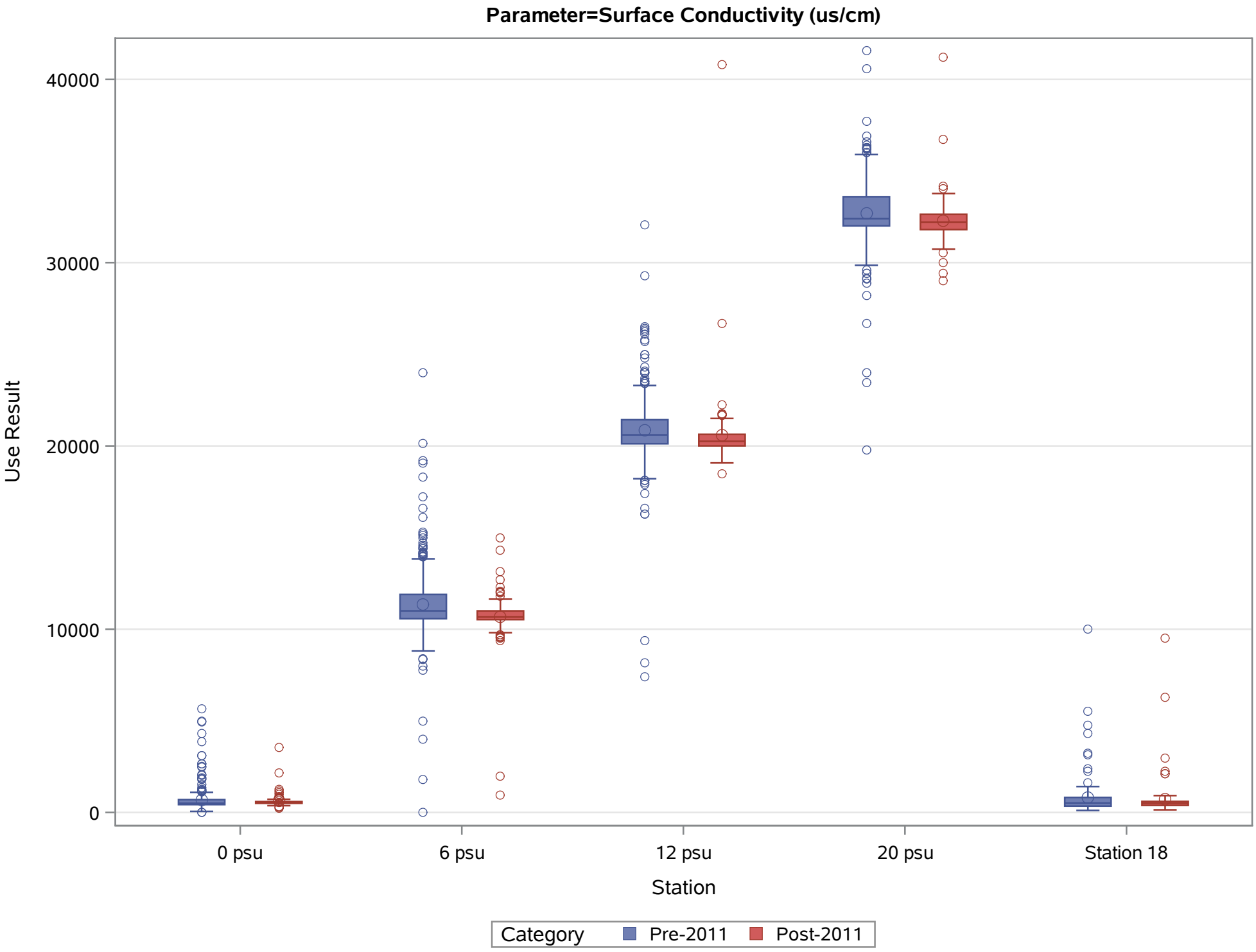

Parameter=Chlorophyll b (mg/m3)
150
100
50
0
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

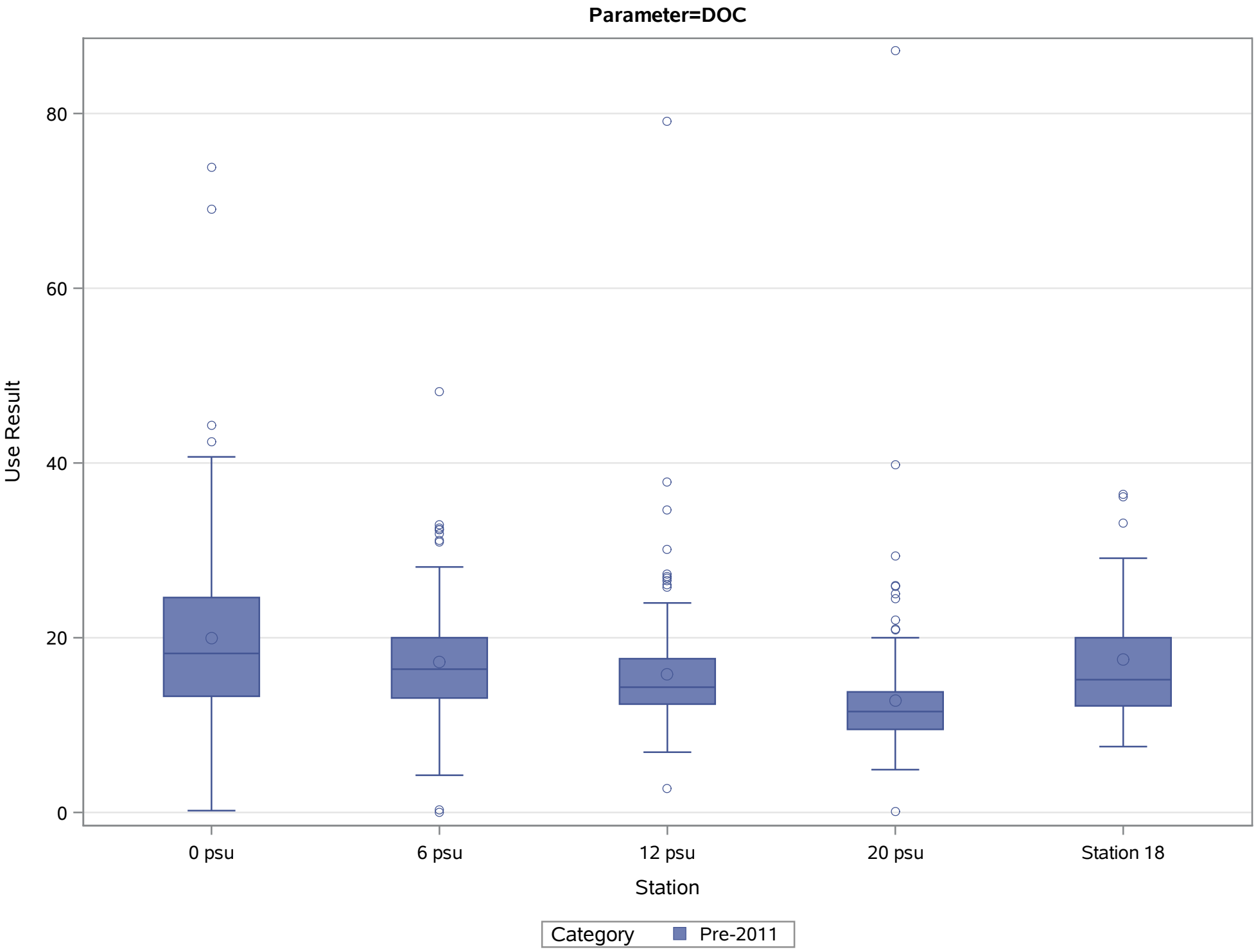

Parameter=Chlorophyll c (mg/m3)
Use Result
300
200
100
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

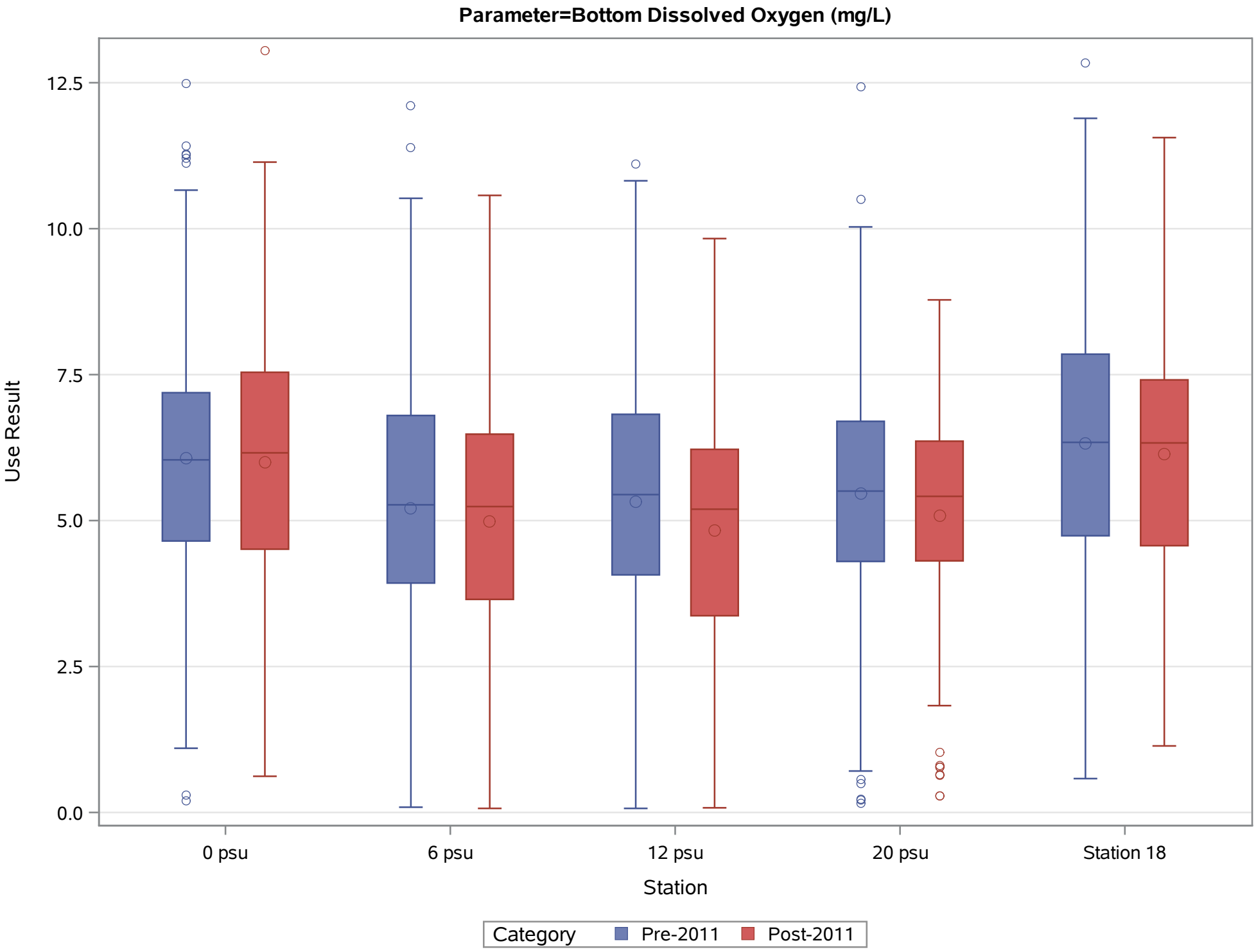

Parameter=Chloride (mg/L)
25000
20000
15000
10000
5000
0
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

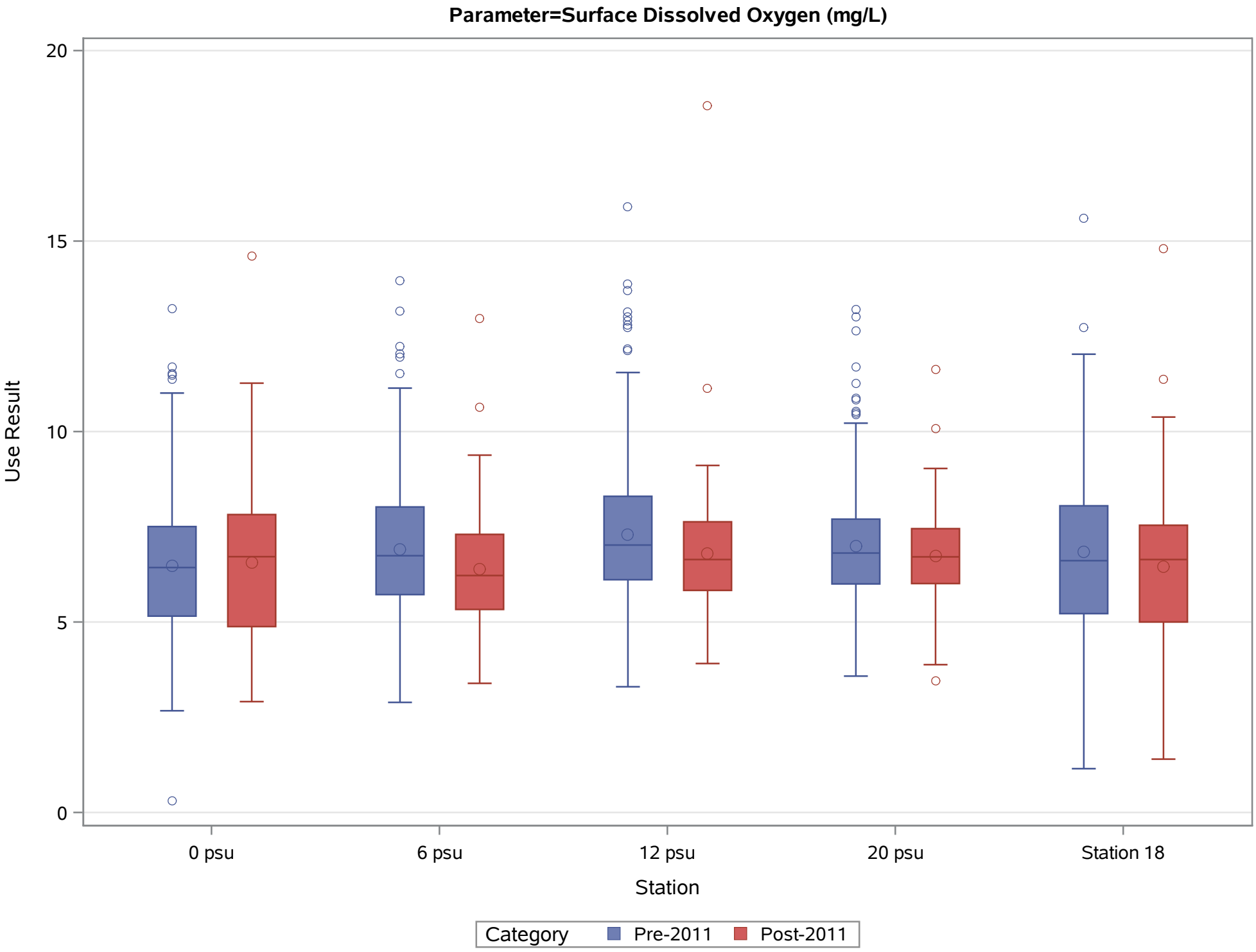

Parameter=Color (pcu)
600
500
400
300
200
100
0
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

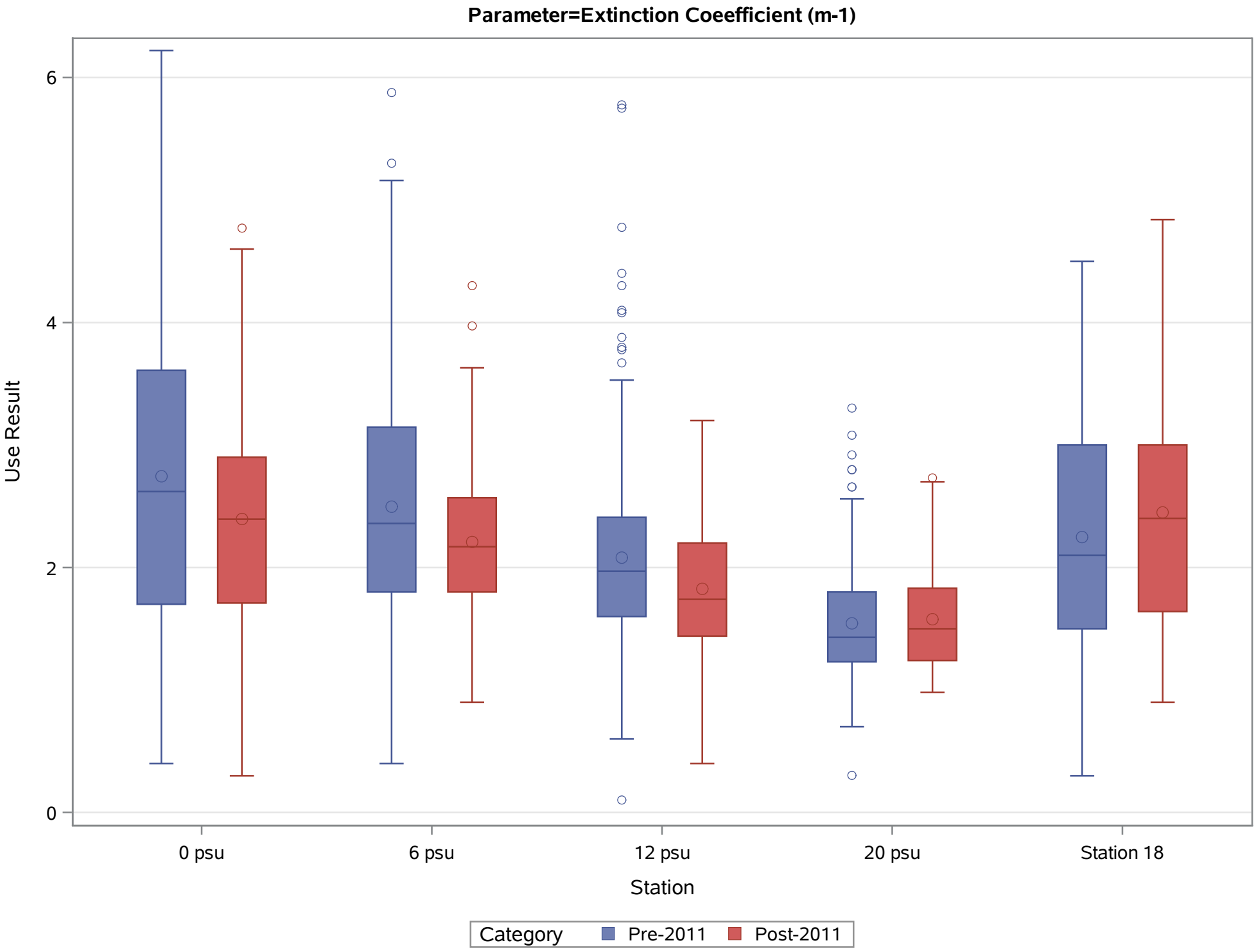

Parameter=Bottom Conductivity (us/cm)
80000
60000
40000
20000
0
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

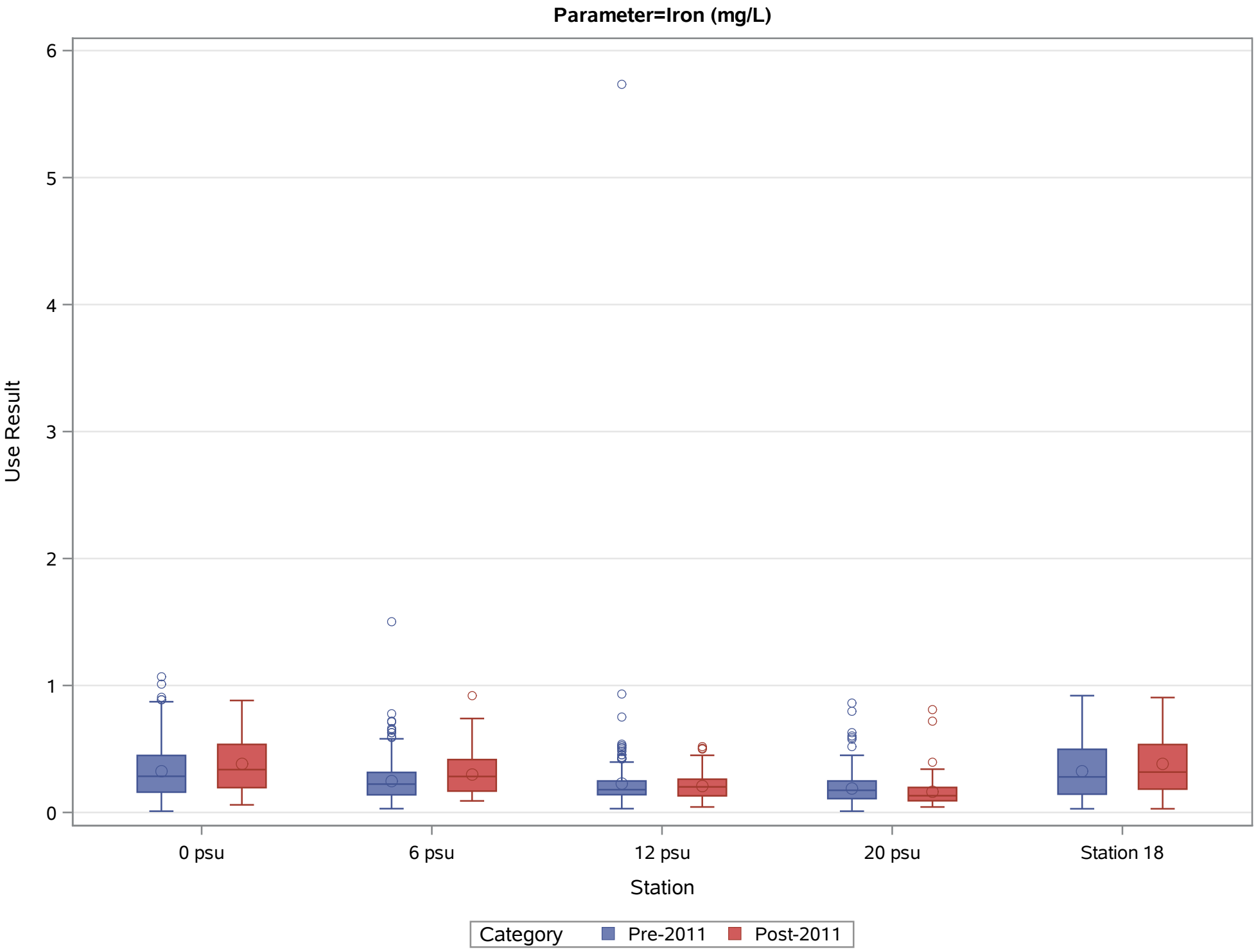

Parameter=Surface Conductivity (us/cm)
Use Result
40000
30000
20000
10000
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

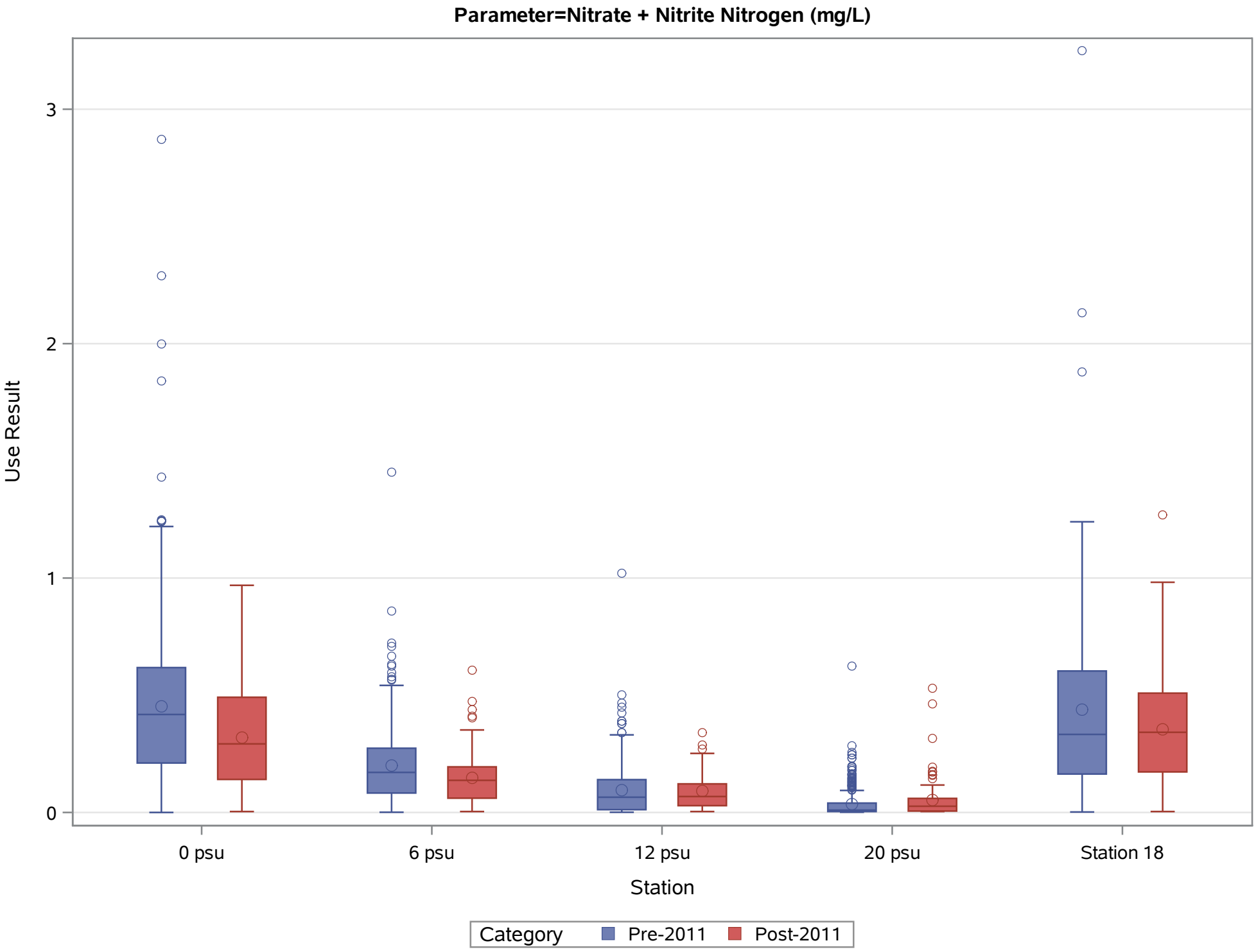

Parameter=DOC
Use Result
80
60
40
20
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011

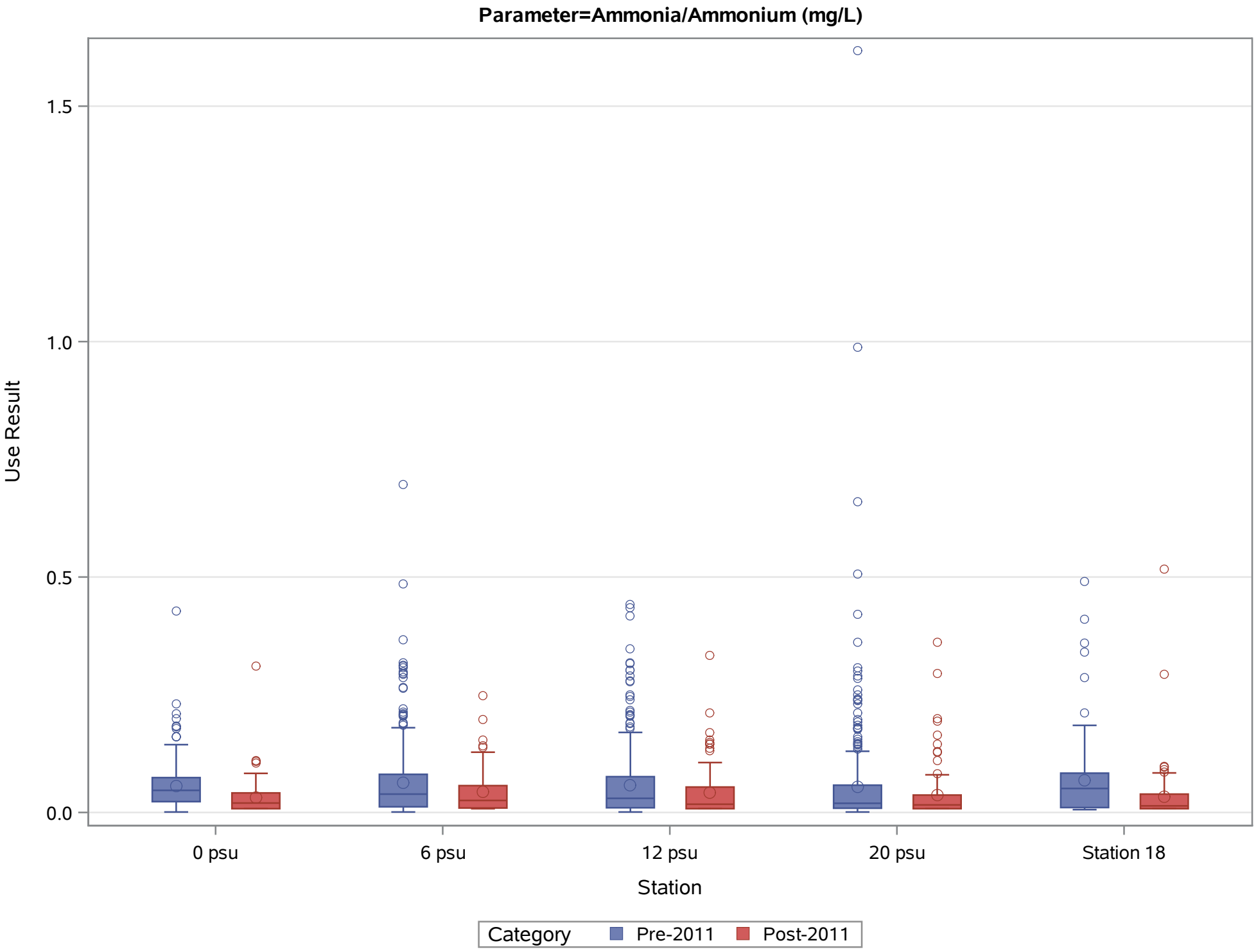

Parameter=Bottom Dissolved Oxygen (mg/L)
Use Result
12.5
10.0
7.5
5.0
2.5
0.0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

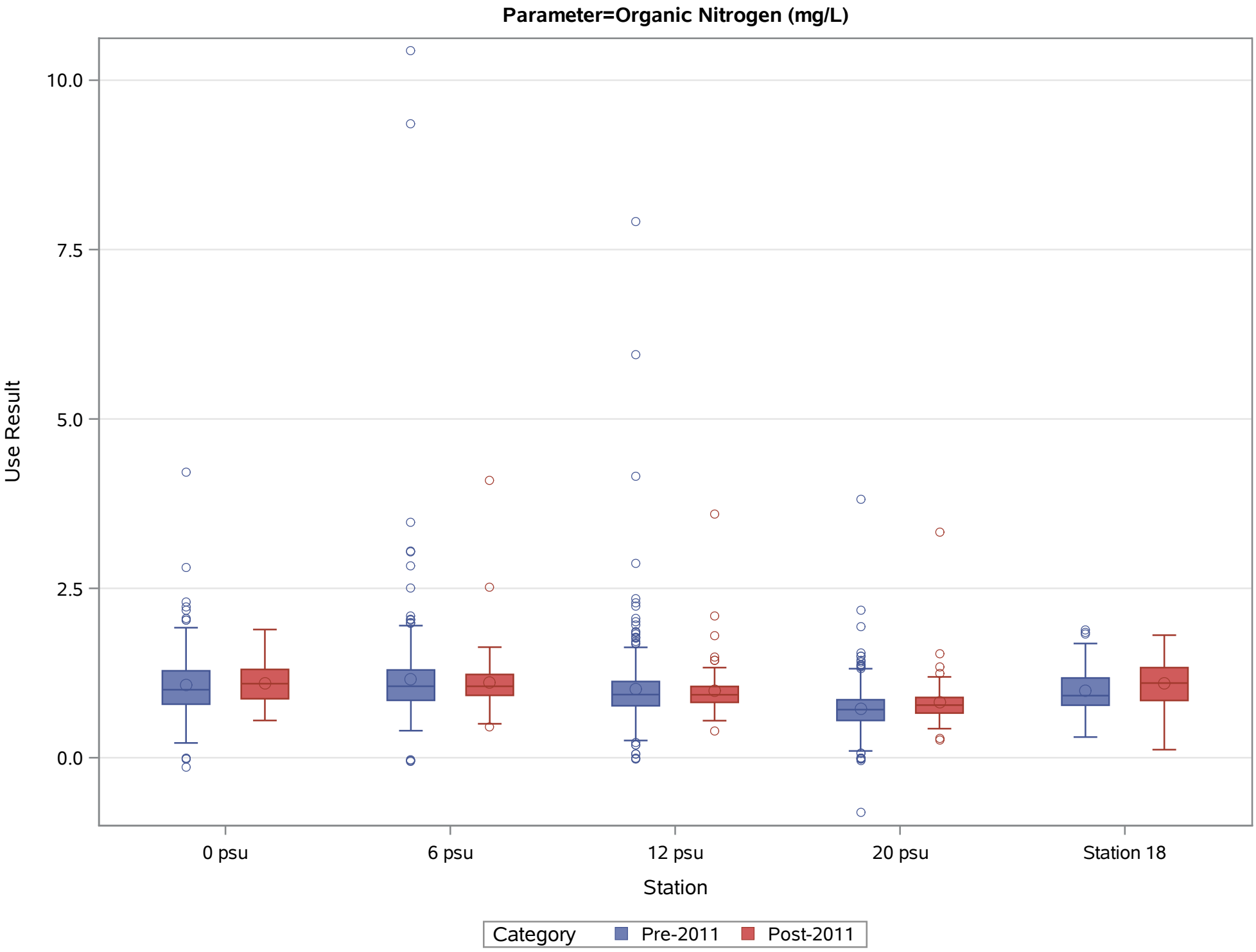

Parameter=Surface Dissolved Oxygen (mg/L)
Use Result
20
15
10
5
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

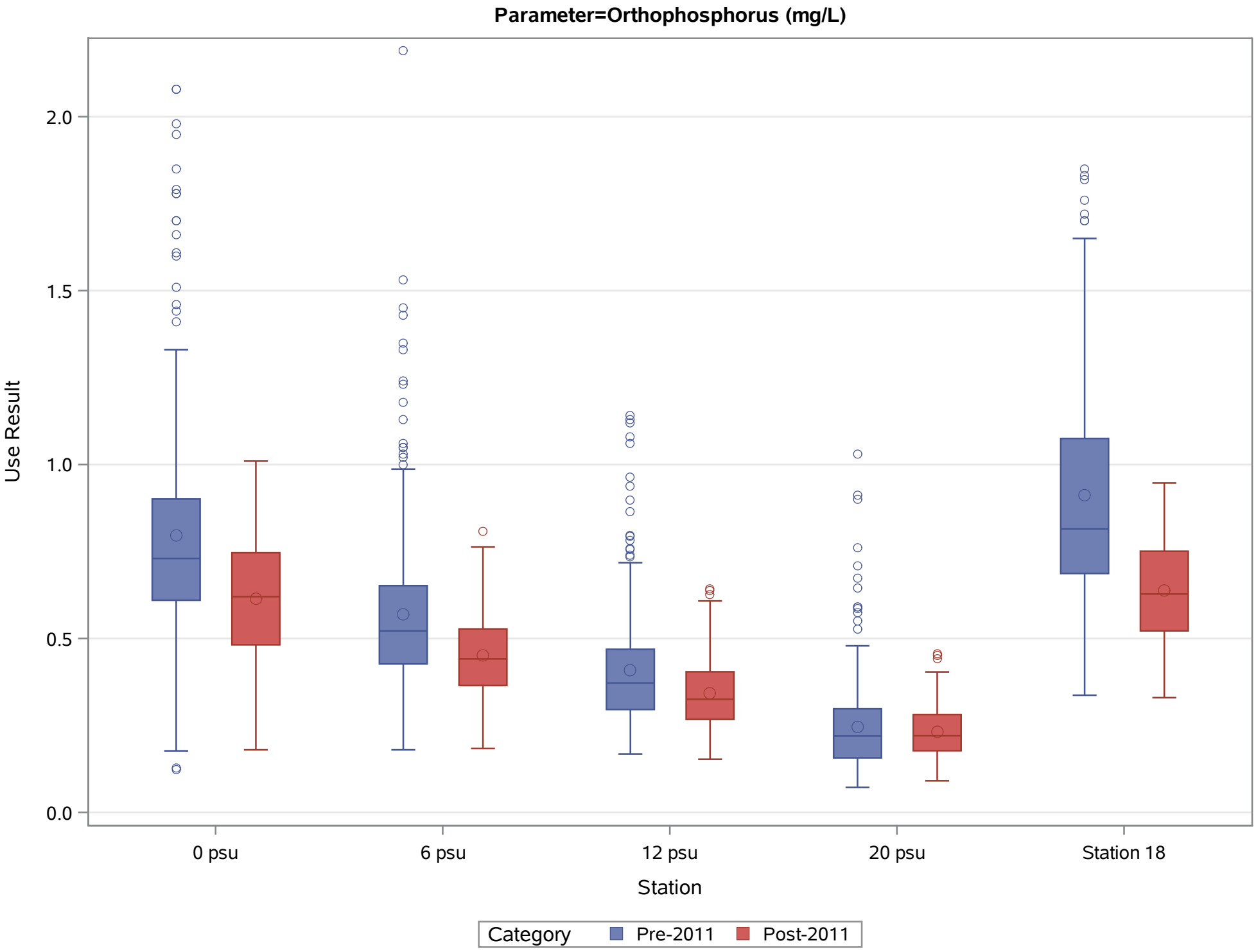

Parameter=Extinction Coeefficient (m-1)
Use Result
6
4
2
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

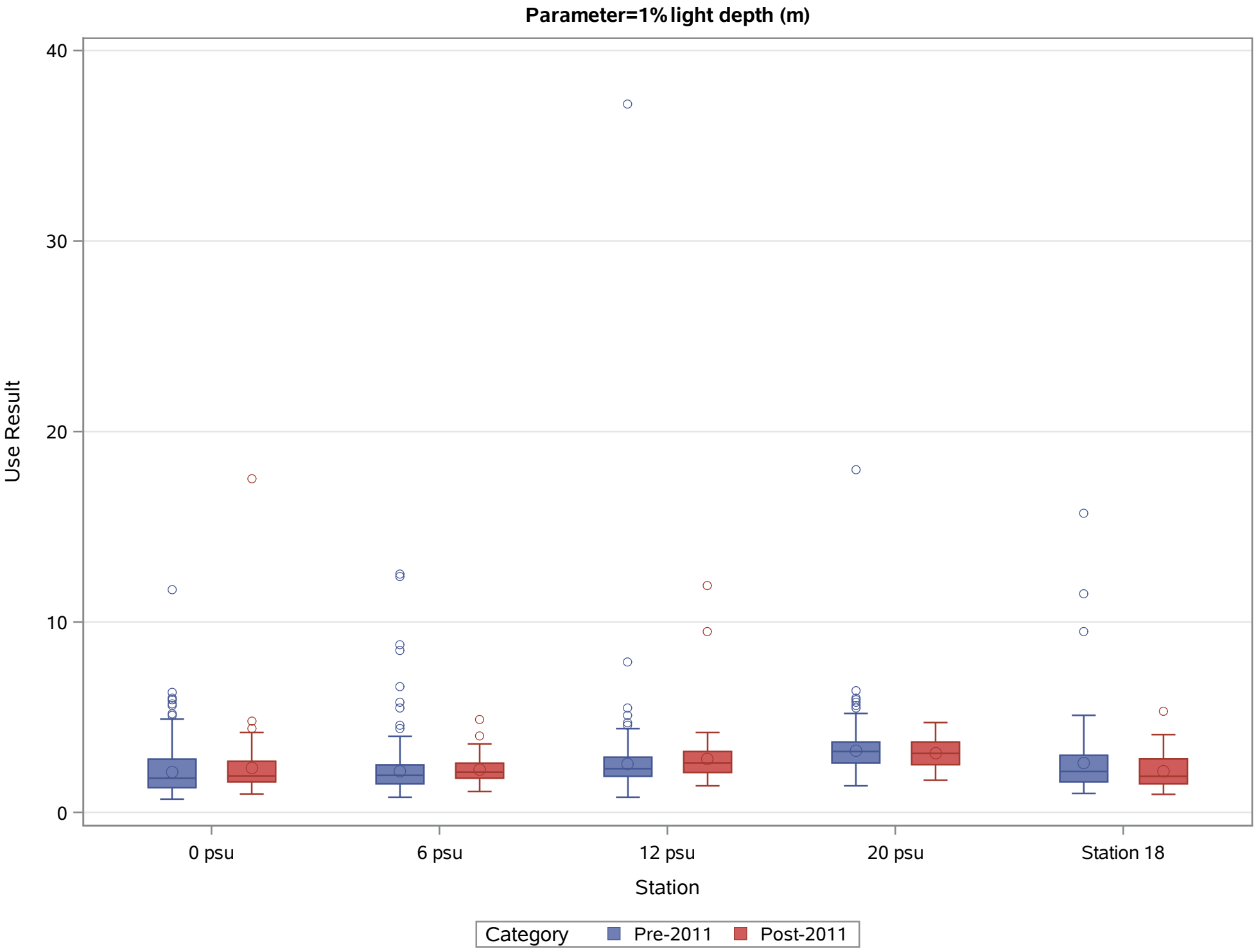

Parameter=Iron (mg/L)
Use Result
6
5
4
3
2
1
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

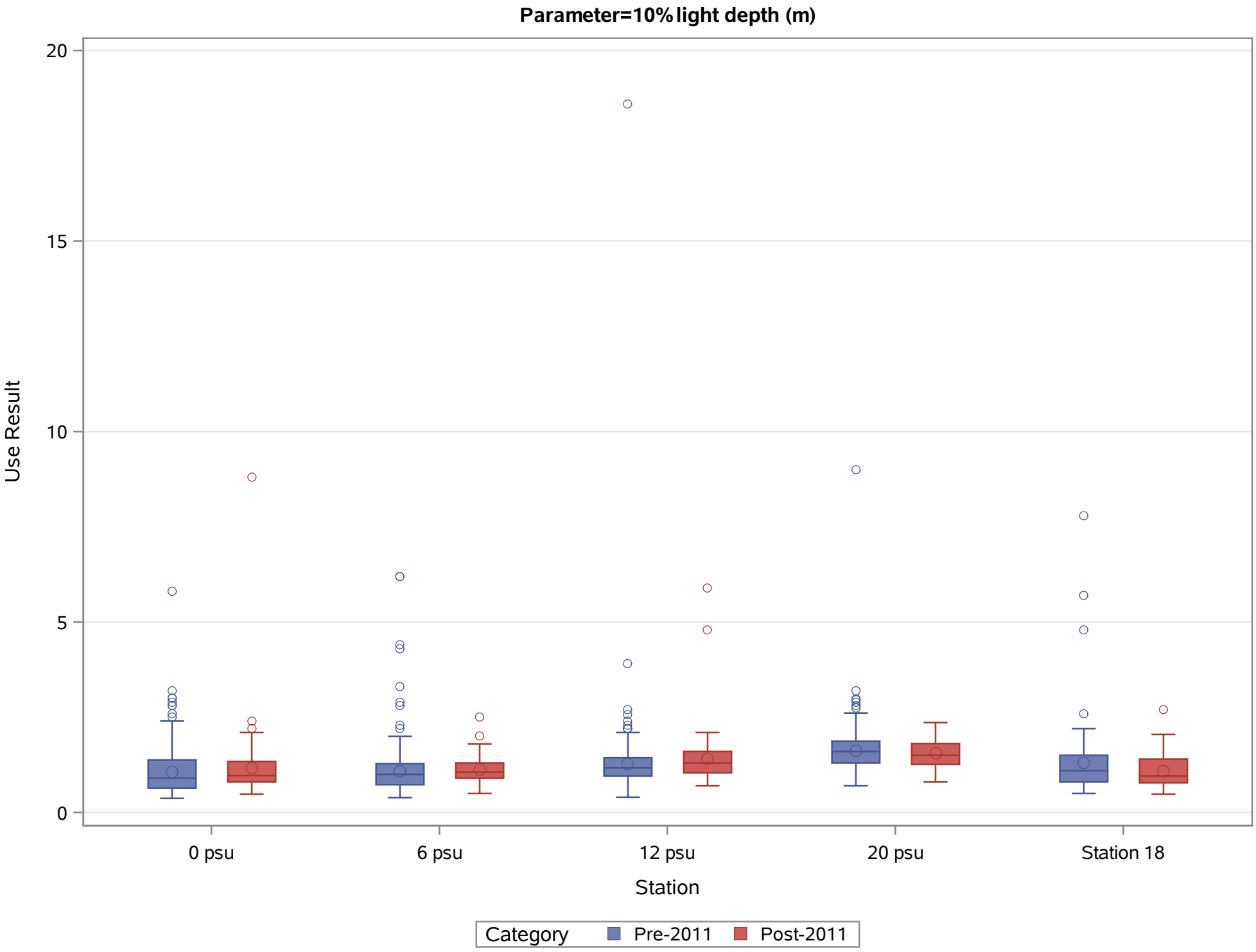

Parameter=Nitrate + Nitrite Nitrogen (mg/L)
Use Result
3
2
1
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

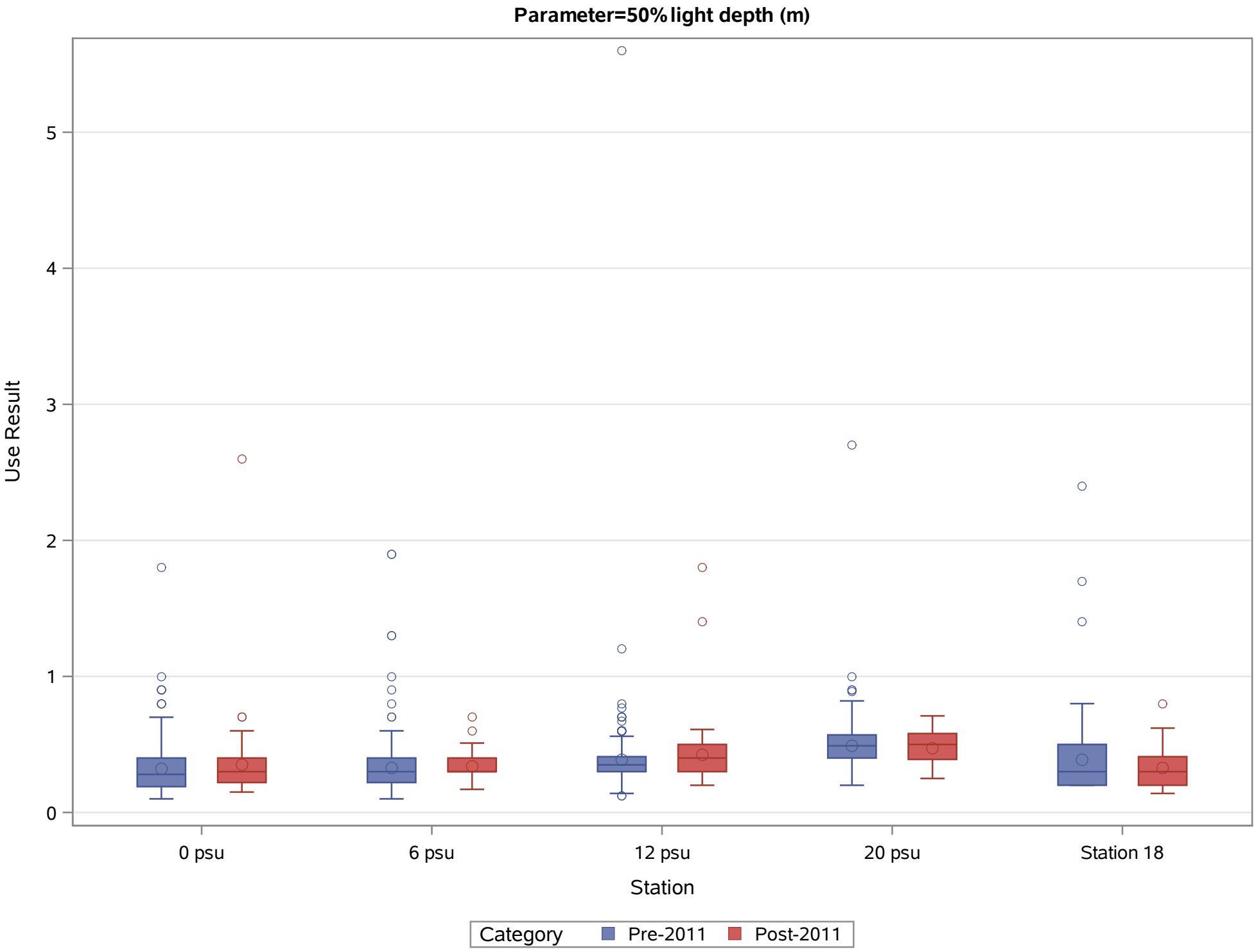

Parameter=Ammonia/Ammonium (mg/L)
Use Result
1.5
1.0
0.5
0.0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

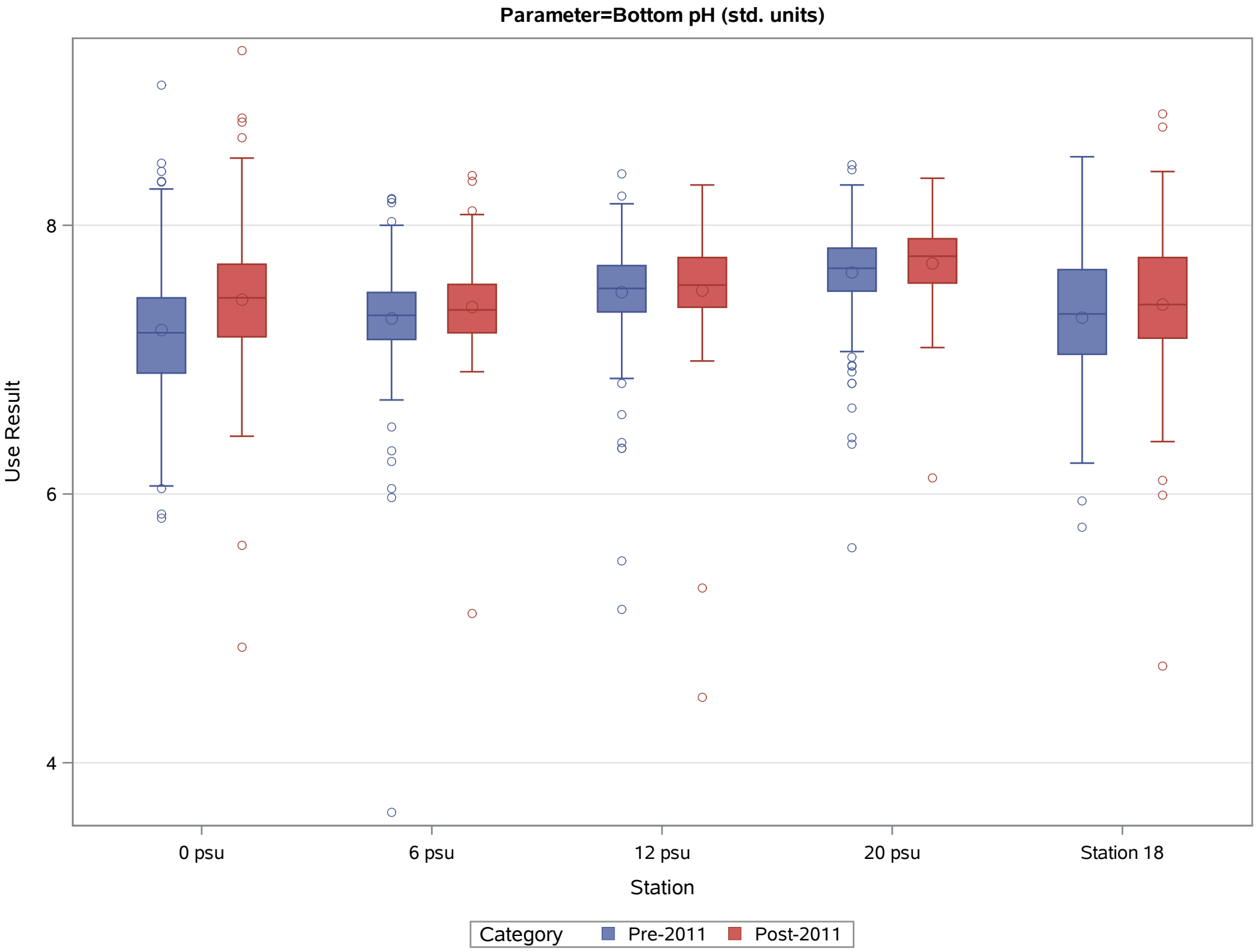

Parameter=Organic Nitrogen (mg/L)
Use Result
10.0
7.5
5.0
2.5
0.0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

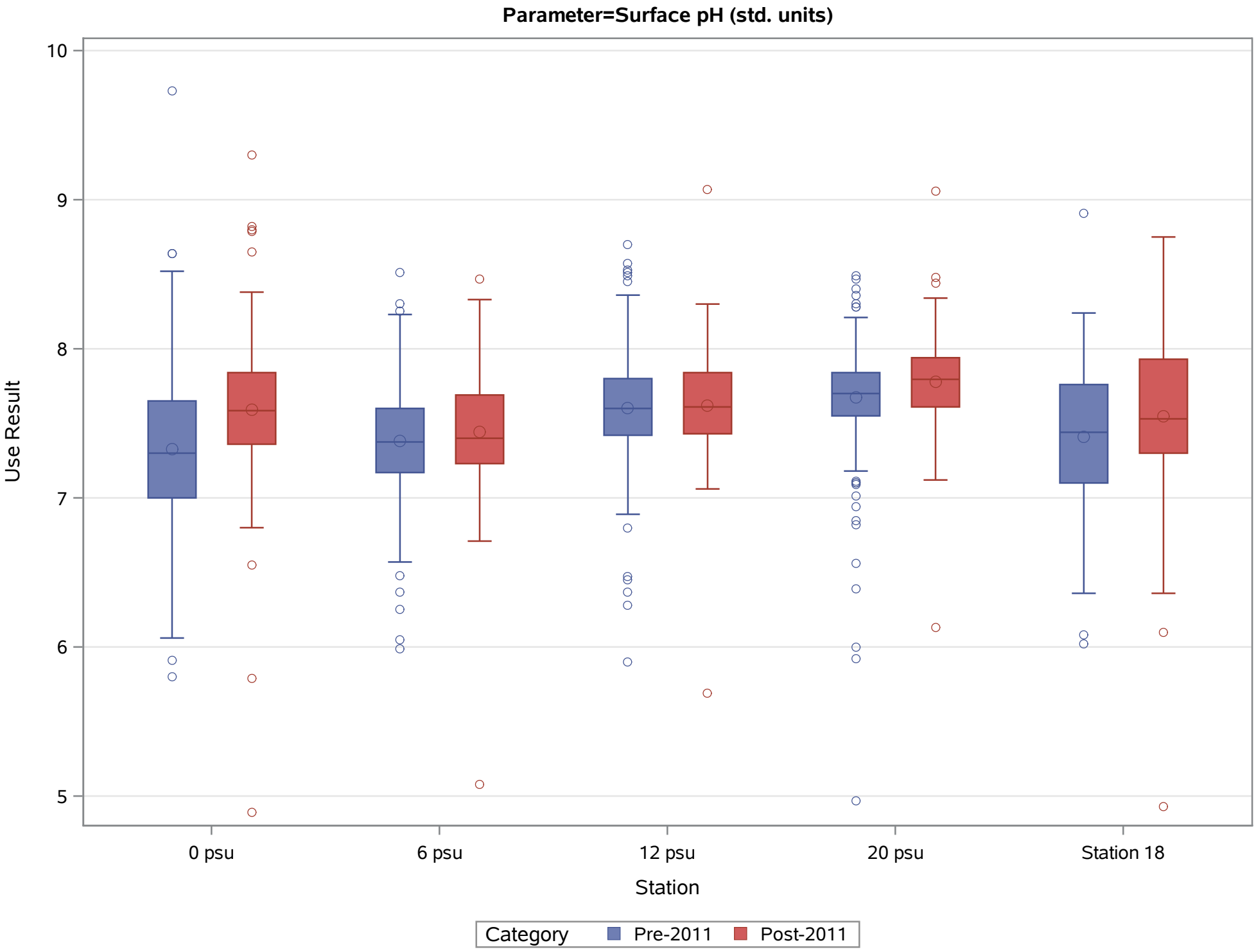

Parameter=Orthophosphorus (mg/L)
Use Result
2.0
1.5
1.0
0.5
0.0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

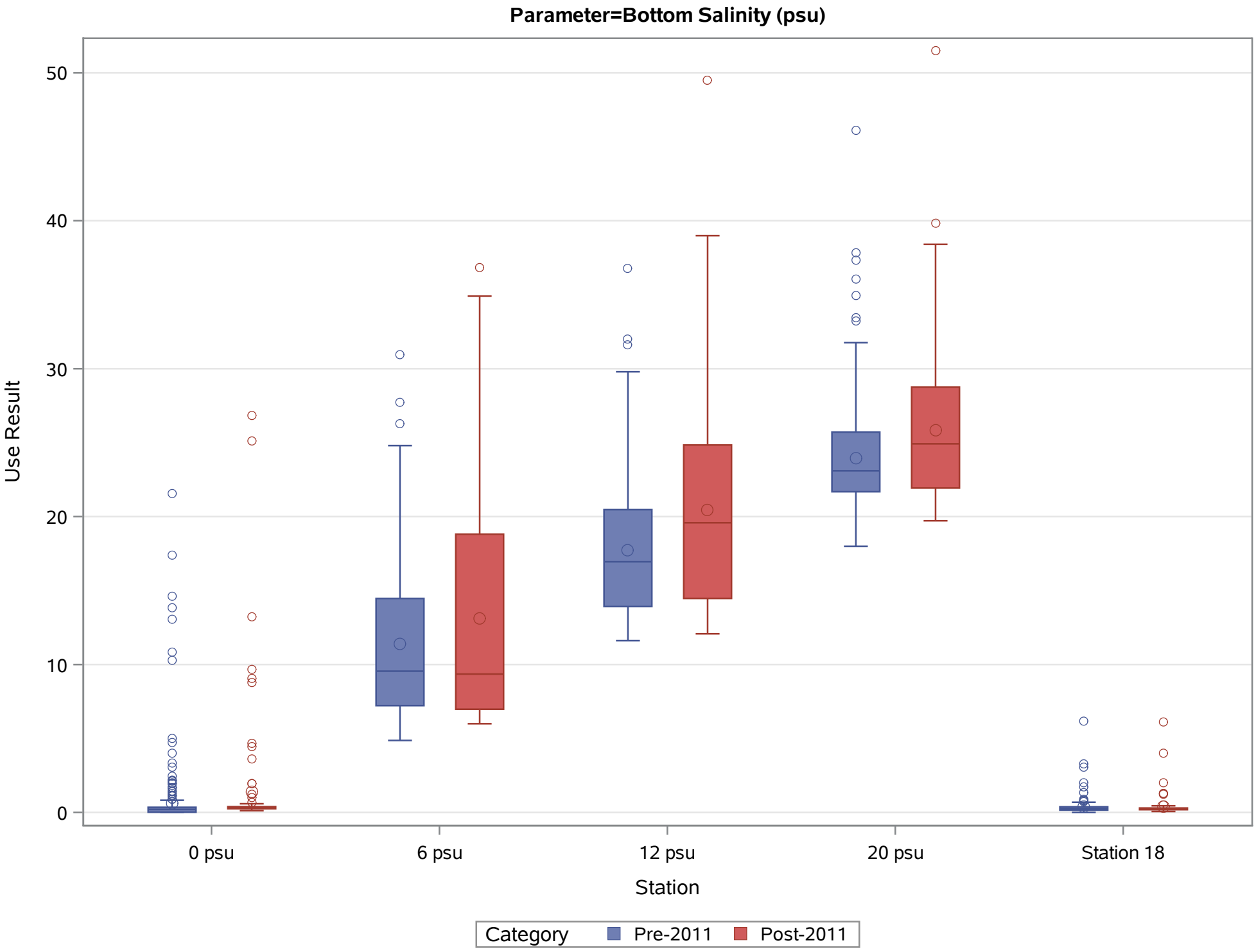

Parameter=1% light depth (m)
Use Result
40
30
20
10
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

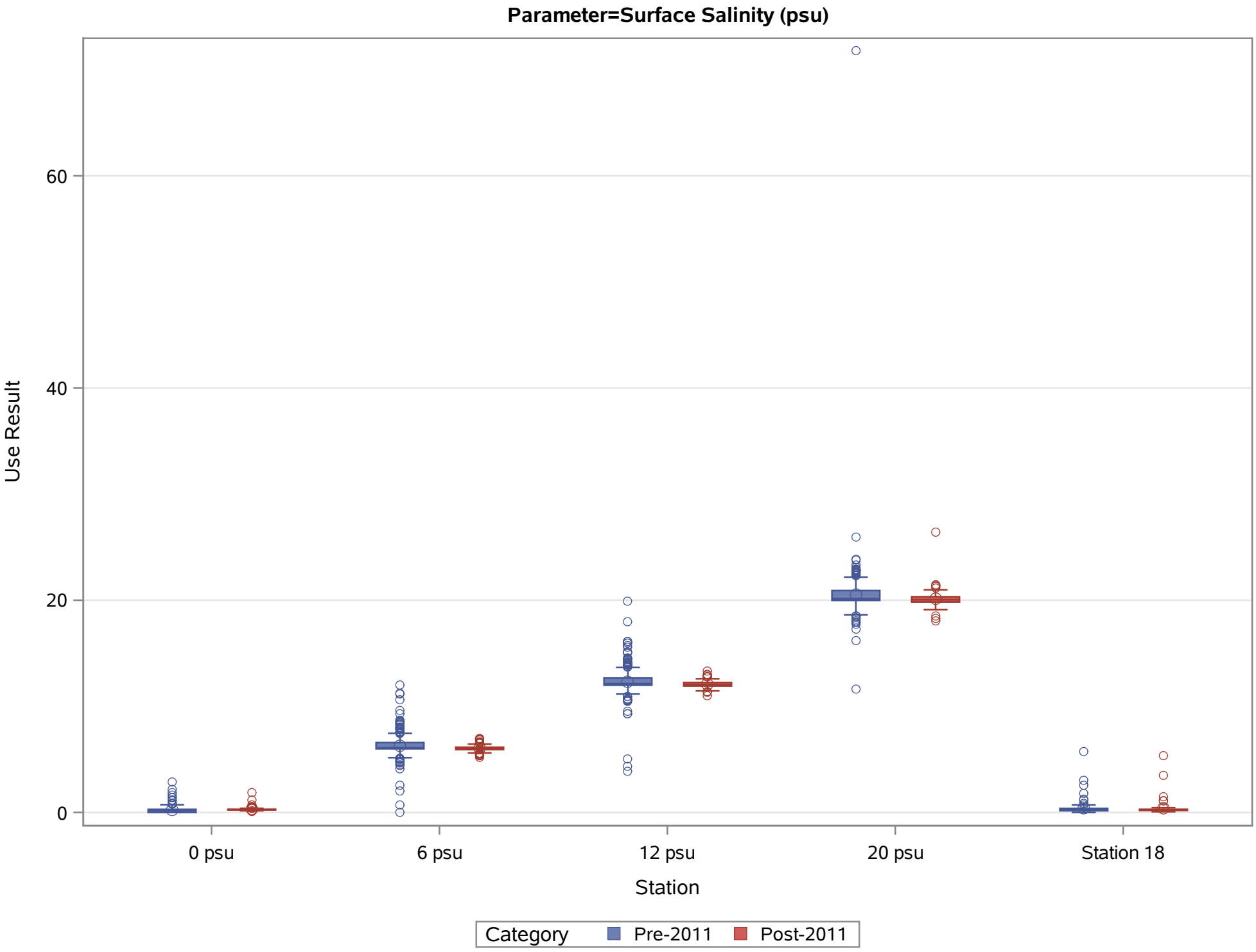

Parameter=10% light depth (m)
20
15
10
5
0
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

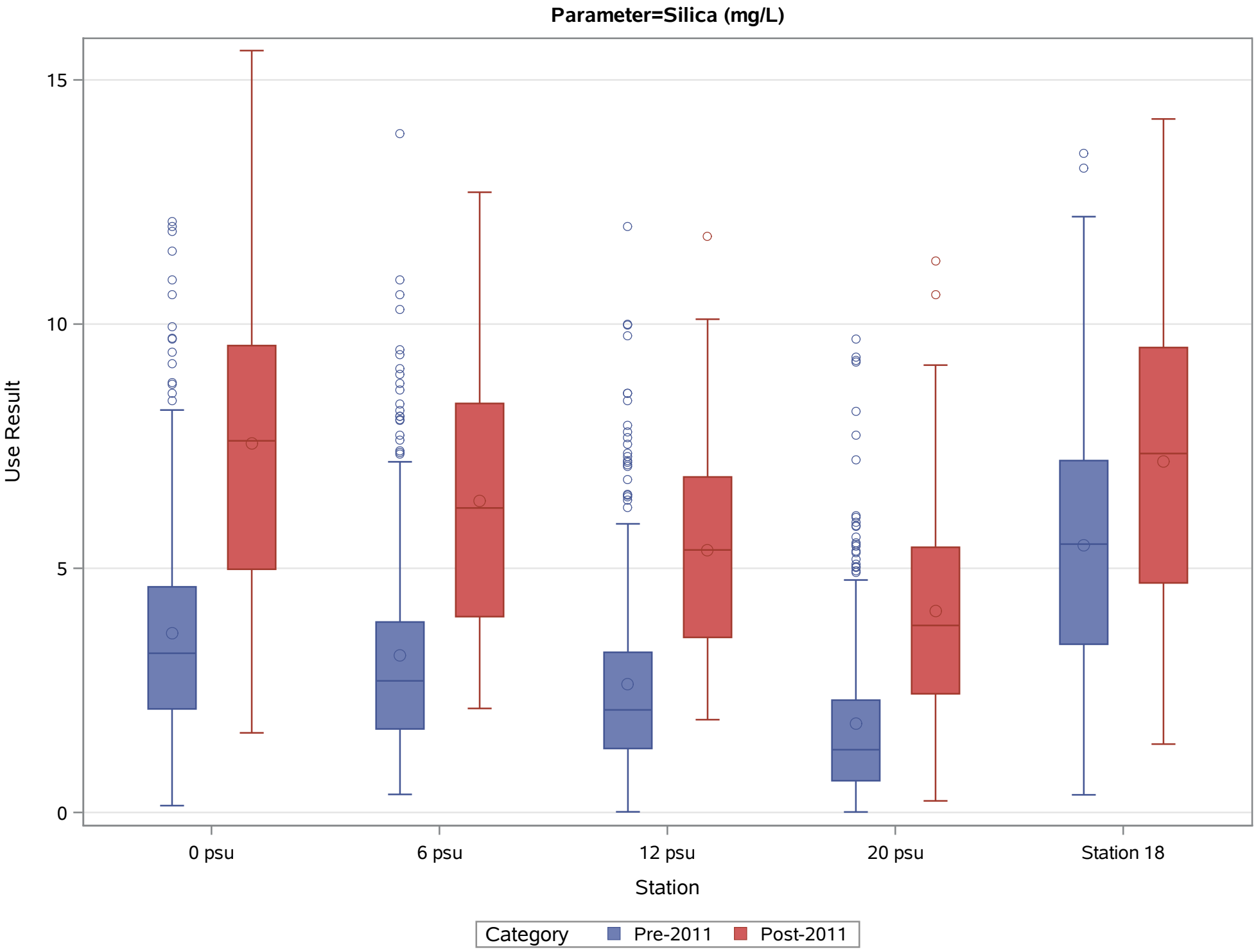

Parameter=50% light depth (m)
Use Result
0
1
2
3
4
5
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

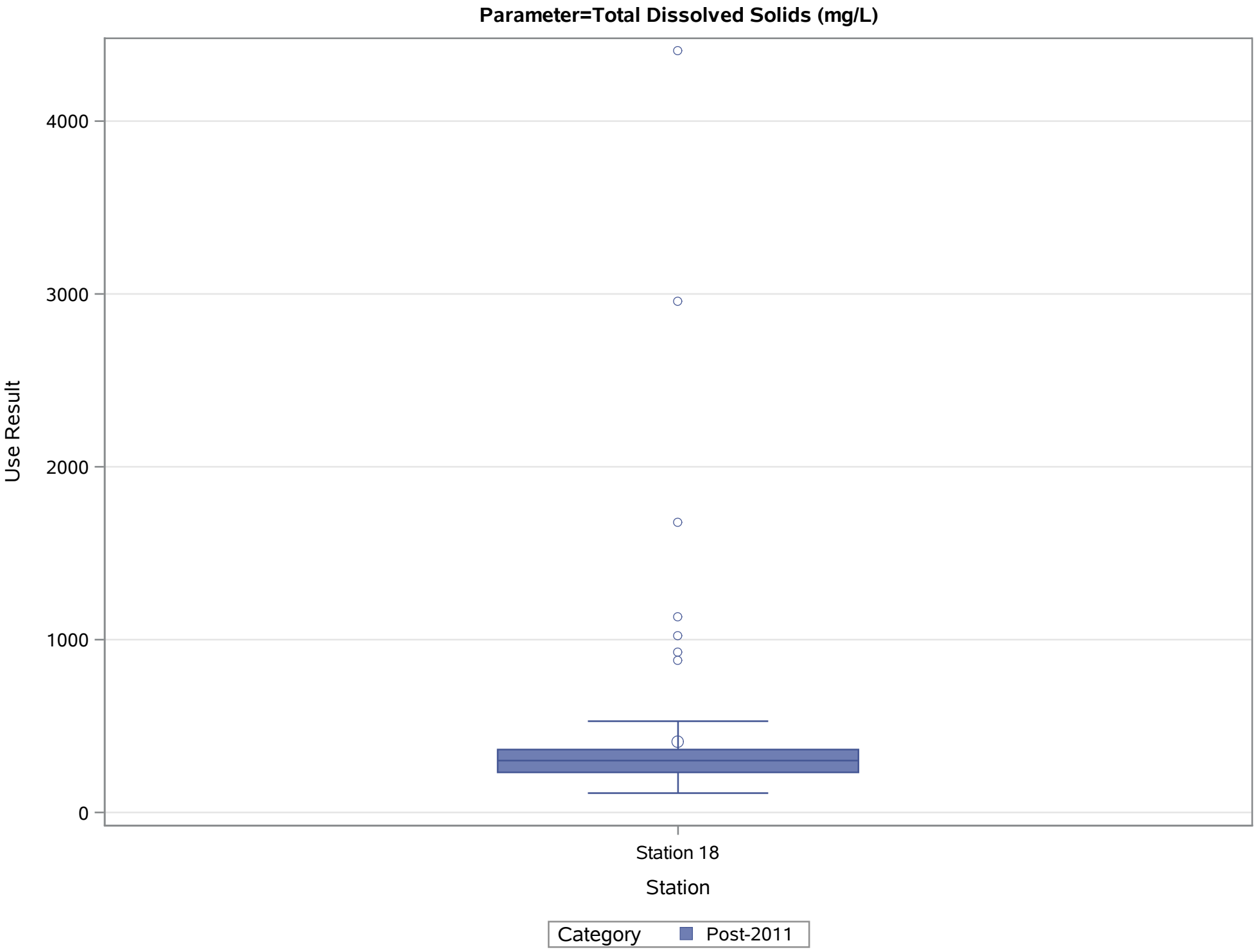

Parameter=Bottom pH (std. units)
Use Result
8
6
4
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

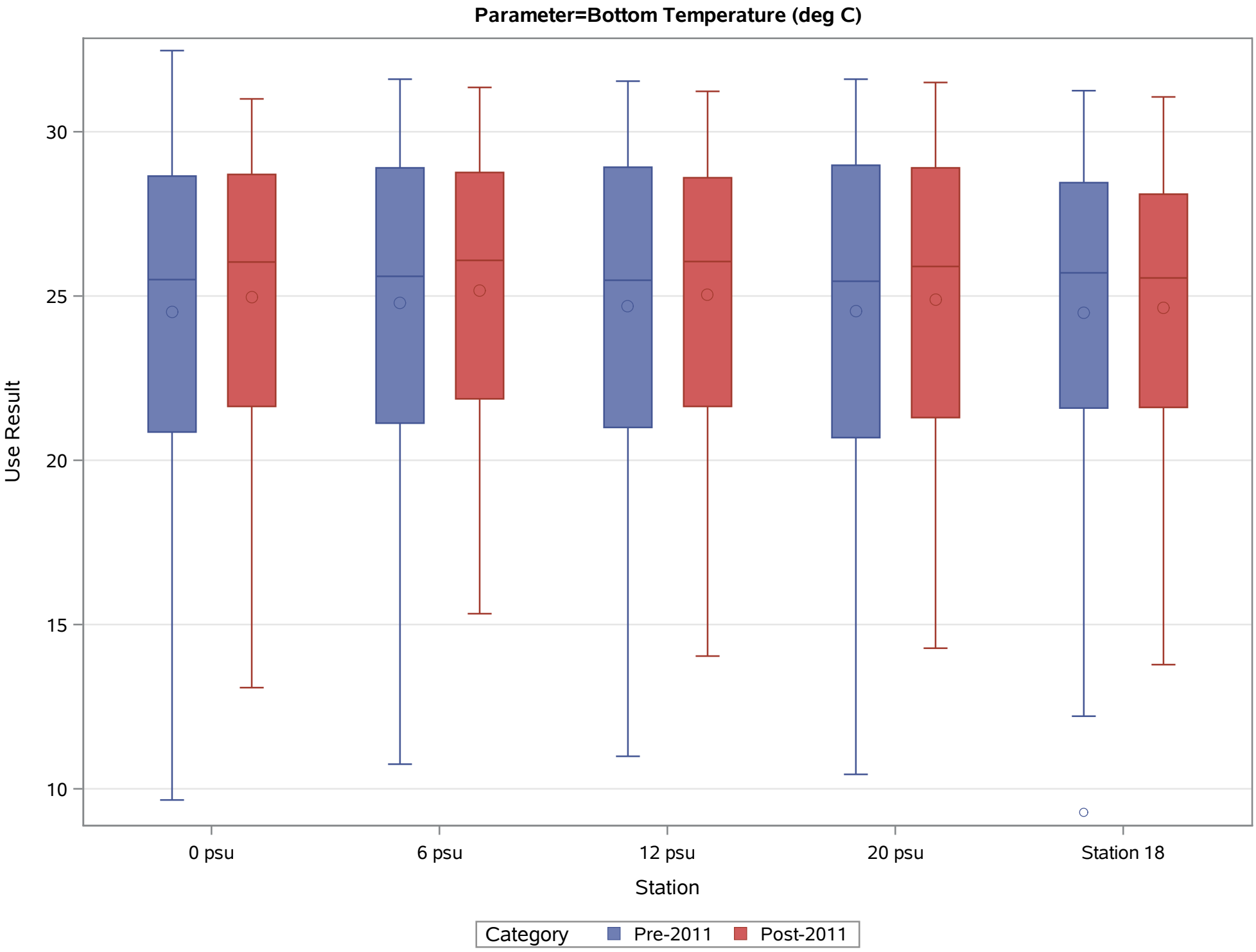

Parameter=Surface pH (std. units)
10
9
8
7
6
5
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

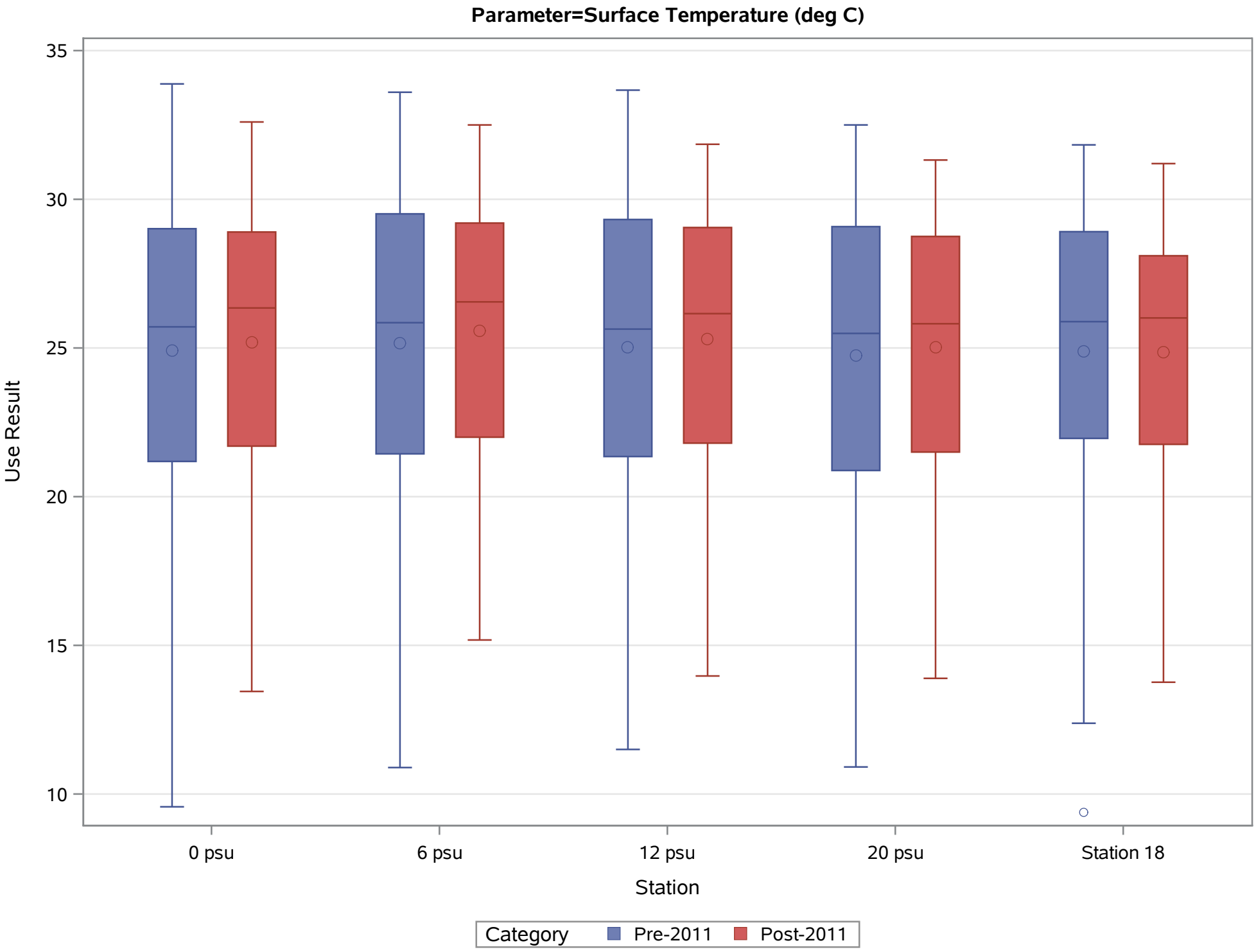

Parameter=Bottom Salinity (psu)
Use Result
50
40
30
20
10
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

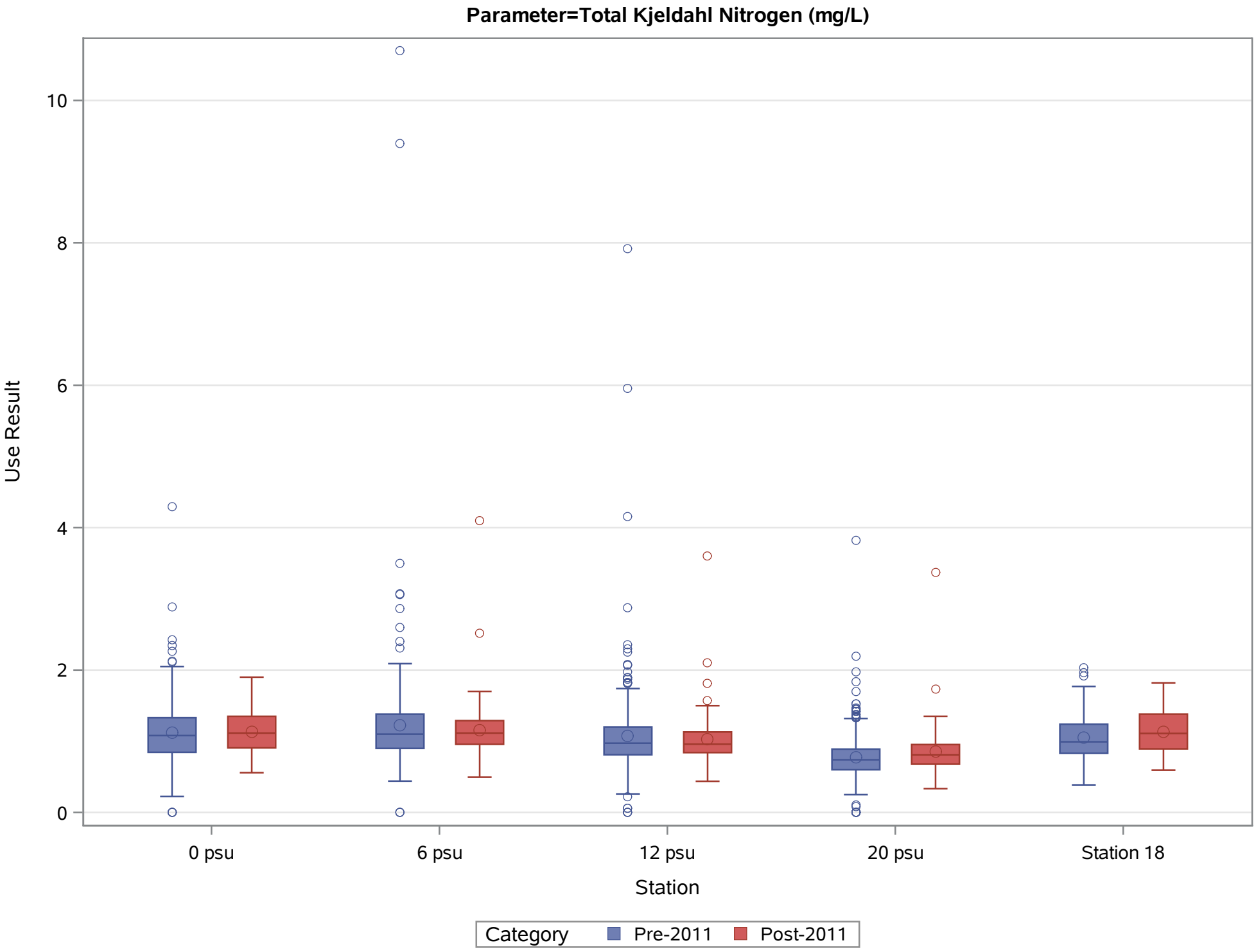

Parameter=Surface Salinity (psu)
Use Result
60
40
20
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

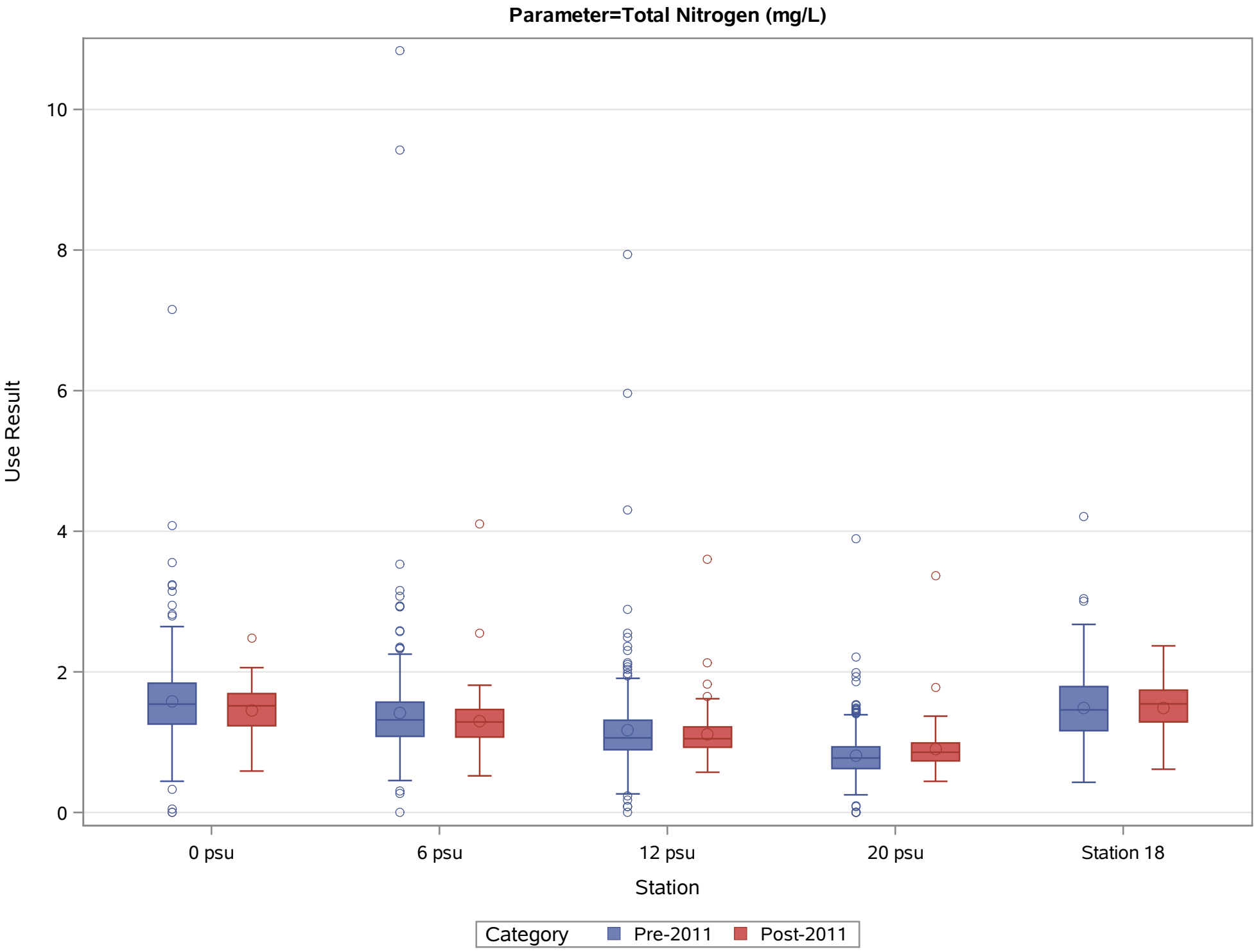

Parameter=Silica (mg/L)
Use Result
15
10
5
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

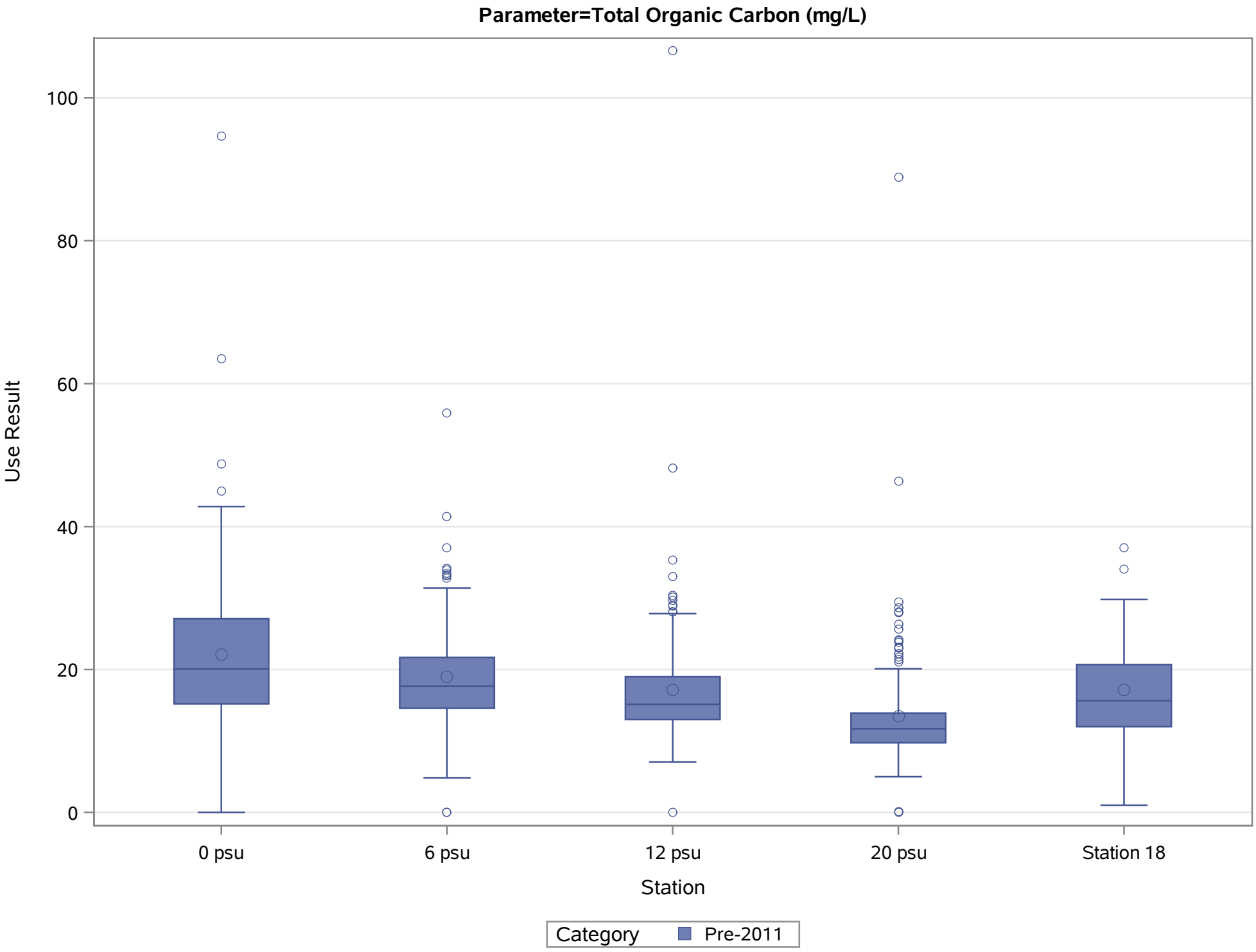

Parameter=Total Dissolved Solids (mg/L)
4000
3000
2000
1000
0
Use Result
Station 18
Station
Category
Post-2011

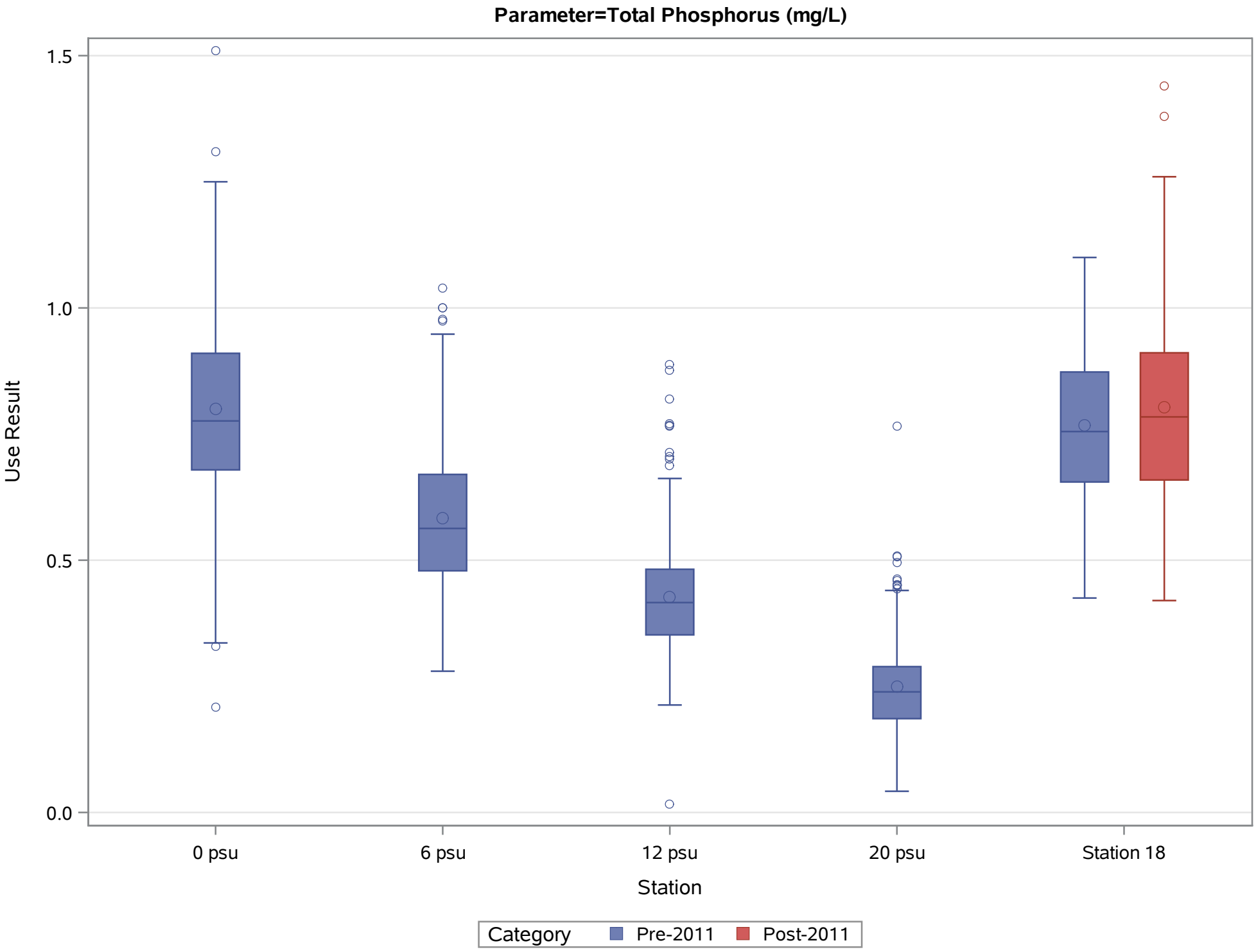

Parameter=Bottom Temperature (deg C)
Use Result
30
25
20
15
10
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

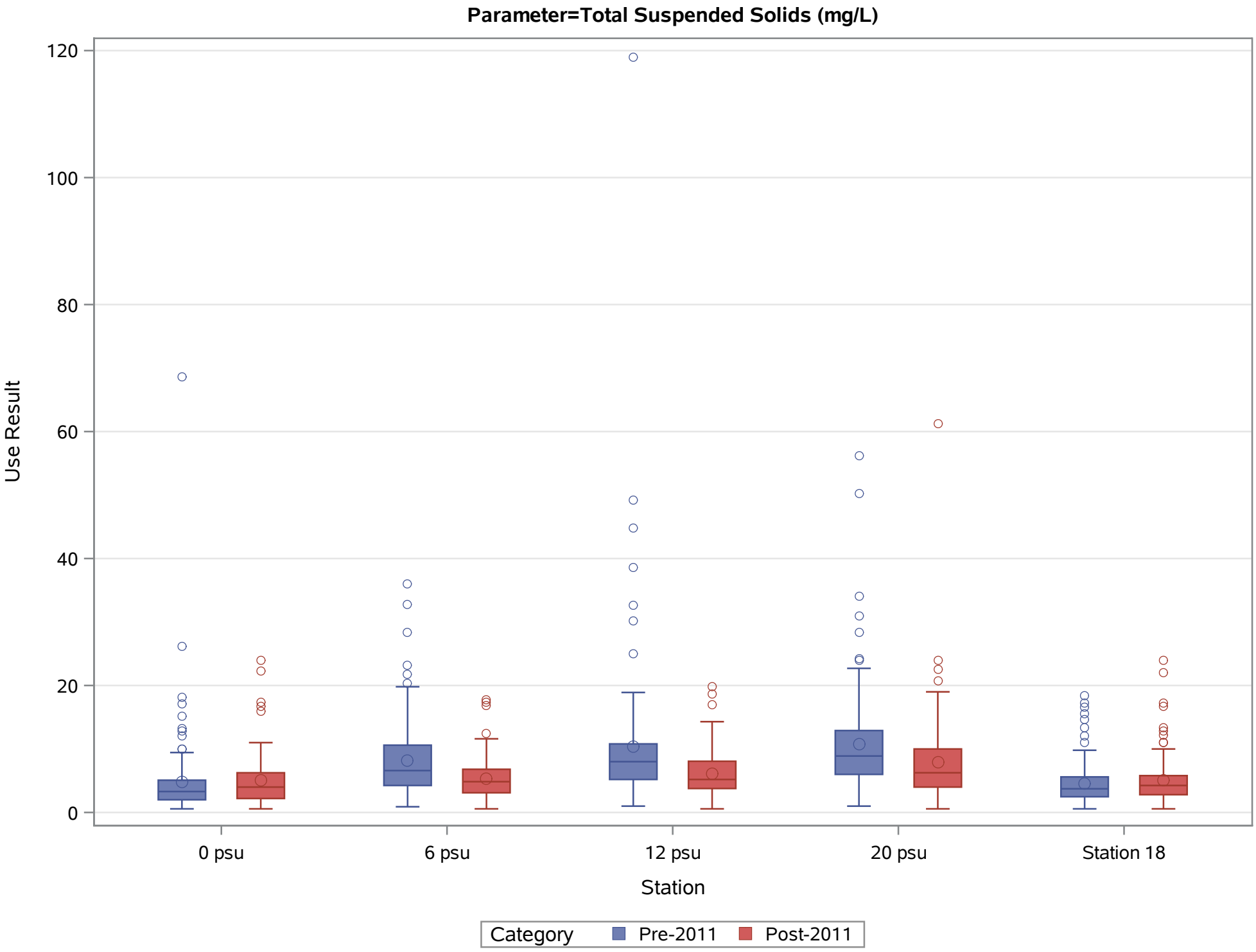

Parameter=Surface Temperature (deg C)
35
30
25
20
15
10
Use Result
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

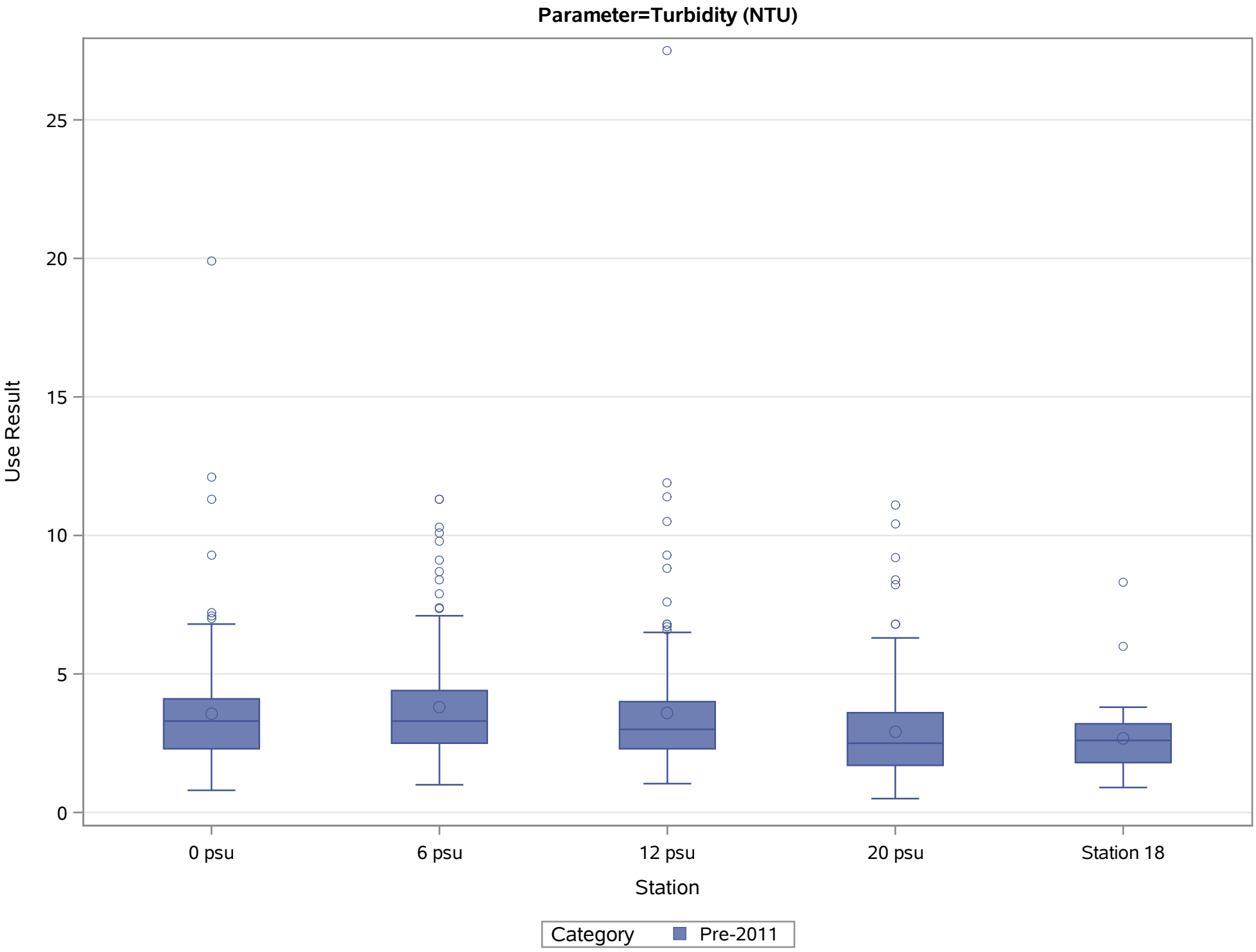

Parameter=Total Kjeldahl Nitrogen (mg/L)
Use Result
10
8
6
4
2
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

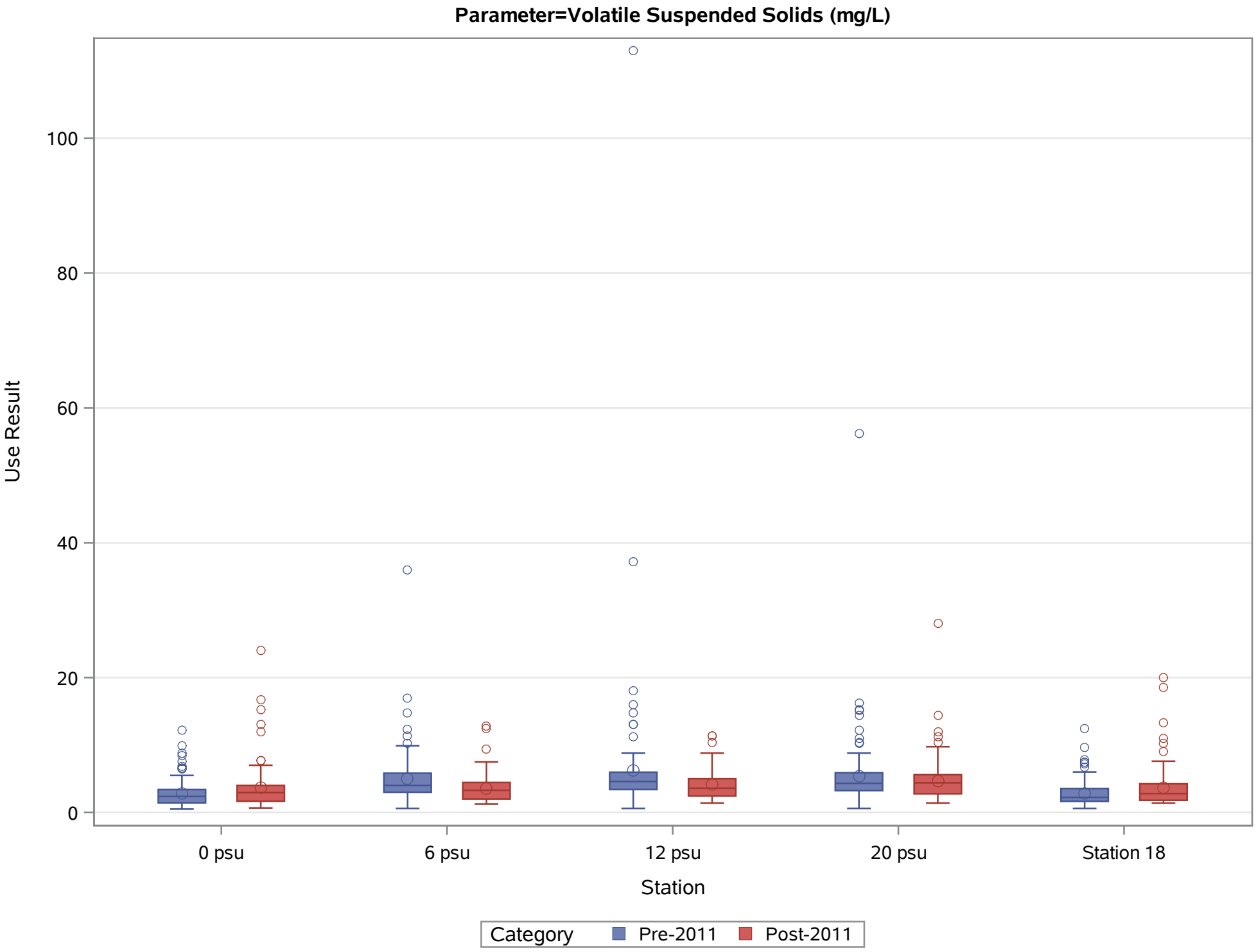

Parameter=Total Nitrogen (mg/L)
Use Result
10
8
6
4
2
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011


Parameter=Total Organic Carbon (mg/L)
Use Result
100
80
60
40
20
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011


Parameter=Total Phosphorus (mg/L)
Use Result
1.5
1.0
0.5
0.0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

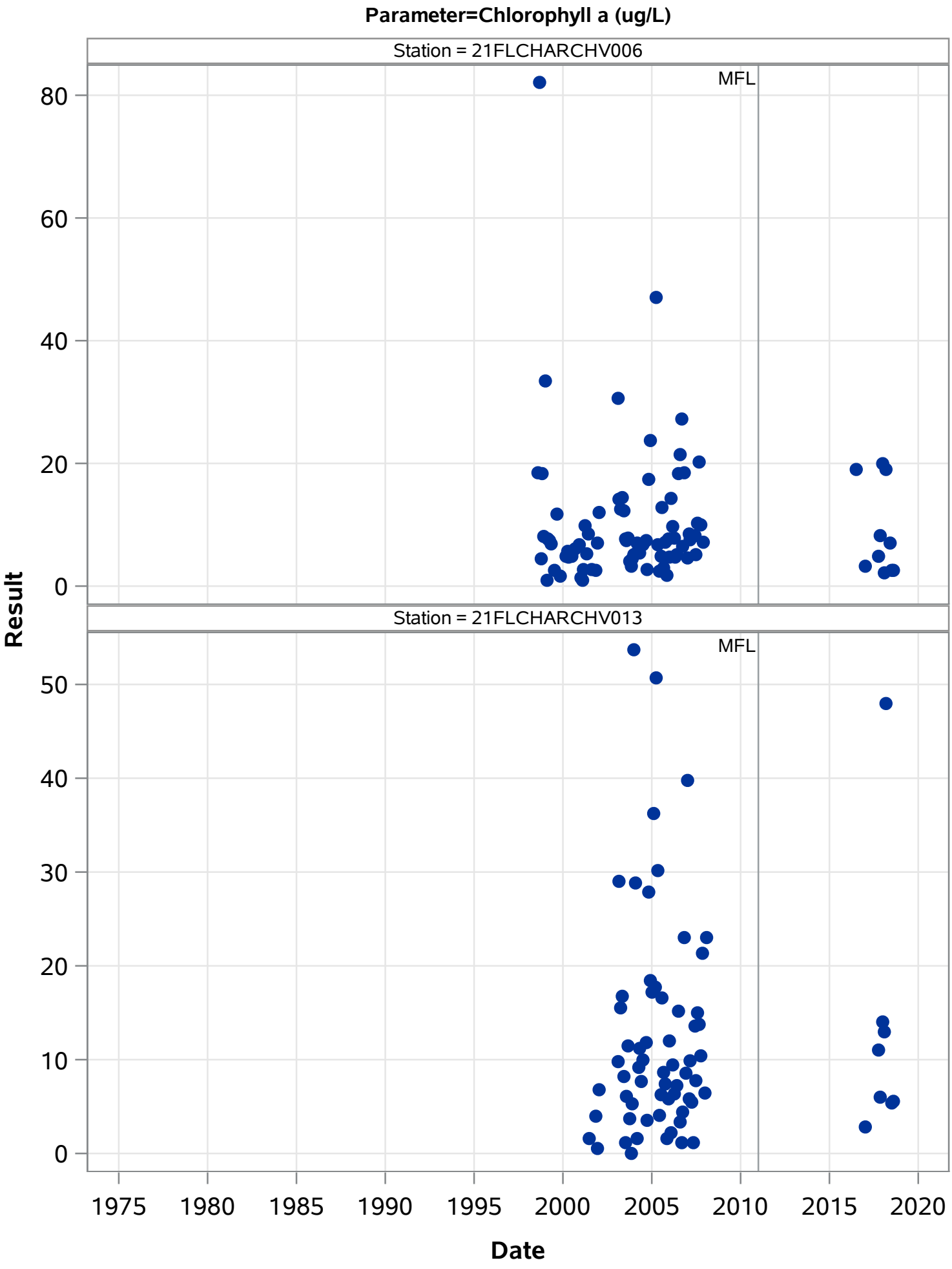

Parameter=Total Suspended Solids (mg/L)
Use Result
120
100
80
60
40
20
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

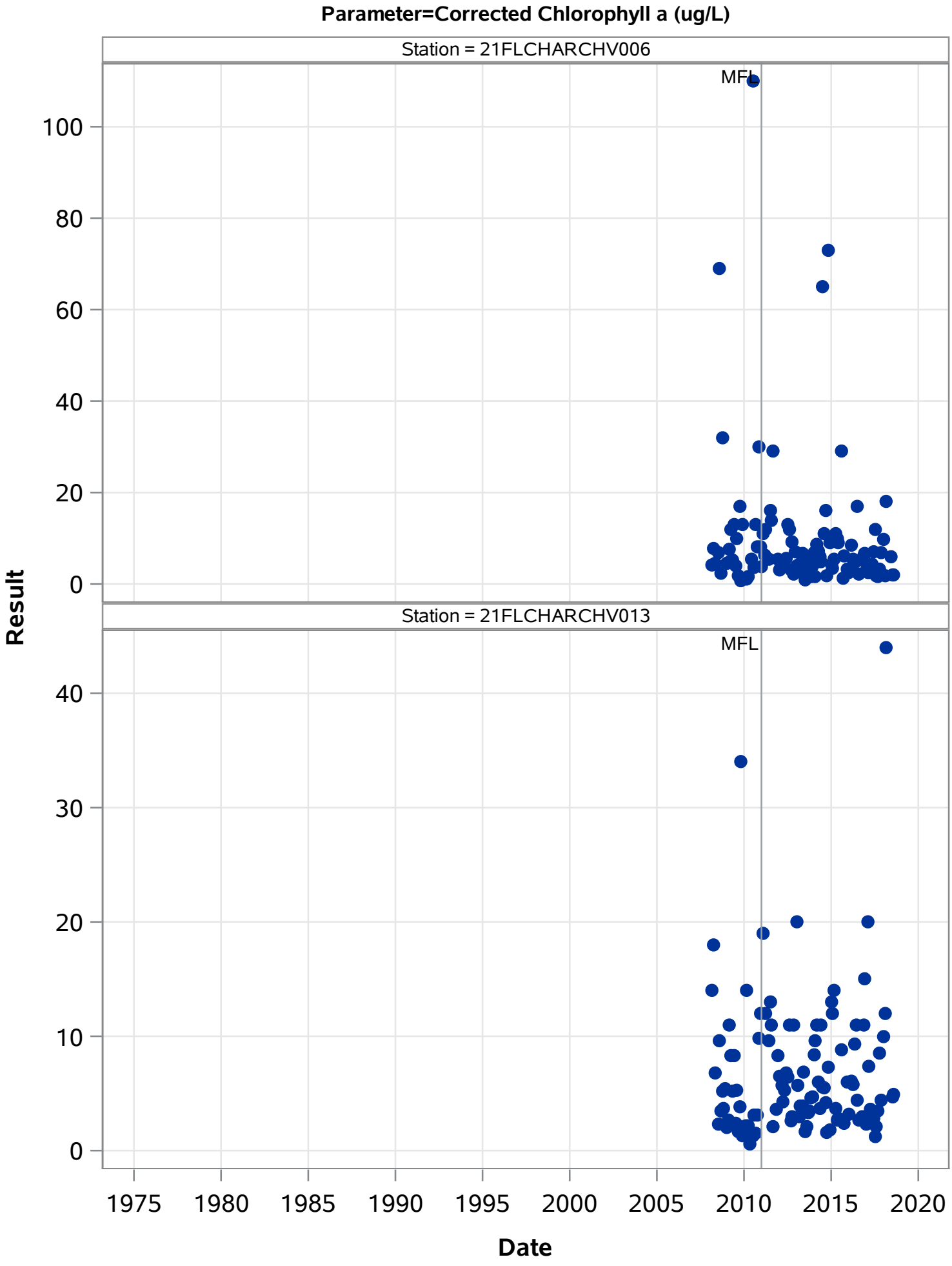

Parameter=Turbidity (NTU)
Use Result
25
20
15
10
5
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011

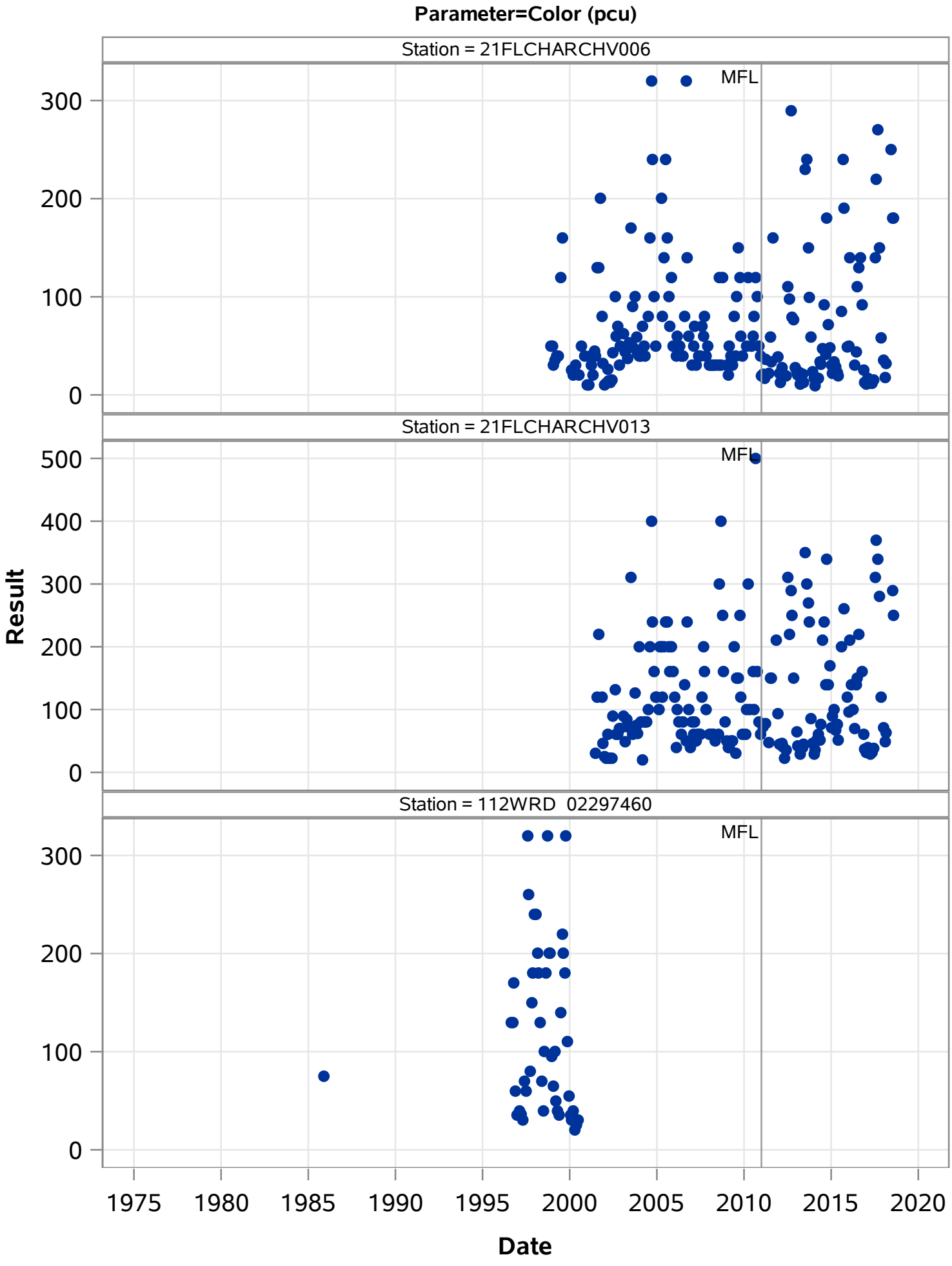

Parameter=Volatile Suspended Solids (mg/L)
Use Result
100
80
60
40
20
0
0 psu
6 psu
12 psu
20 psu
Station 18
Station
Category
Pre-2011
Post-2011

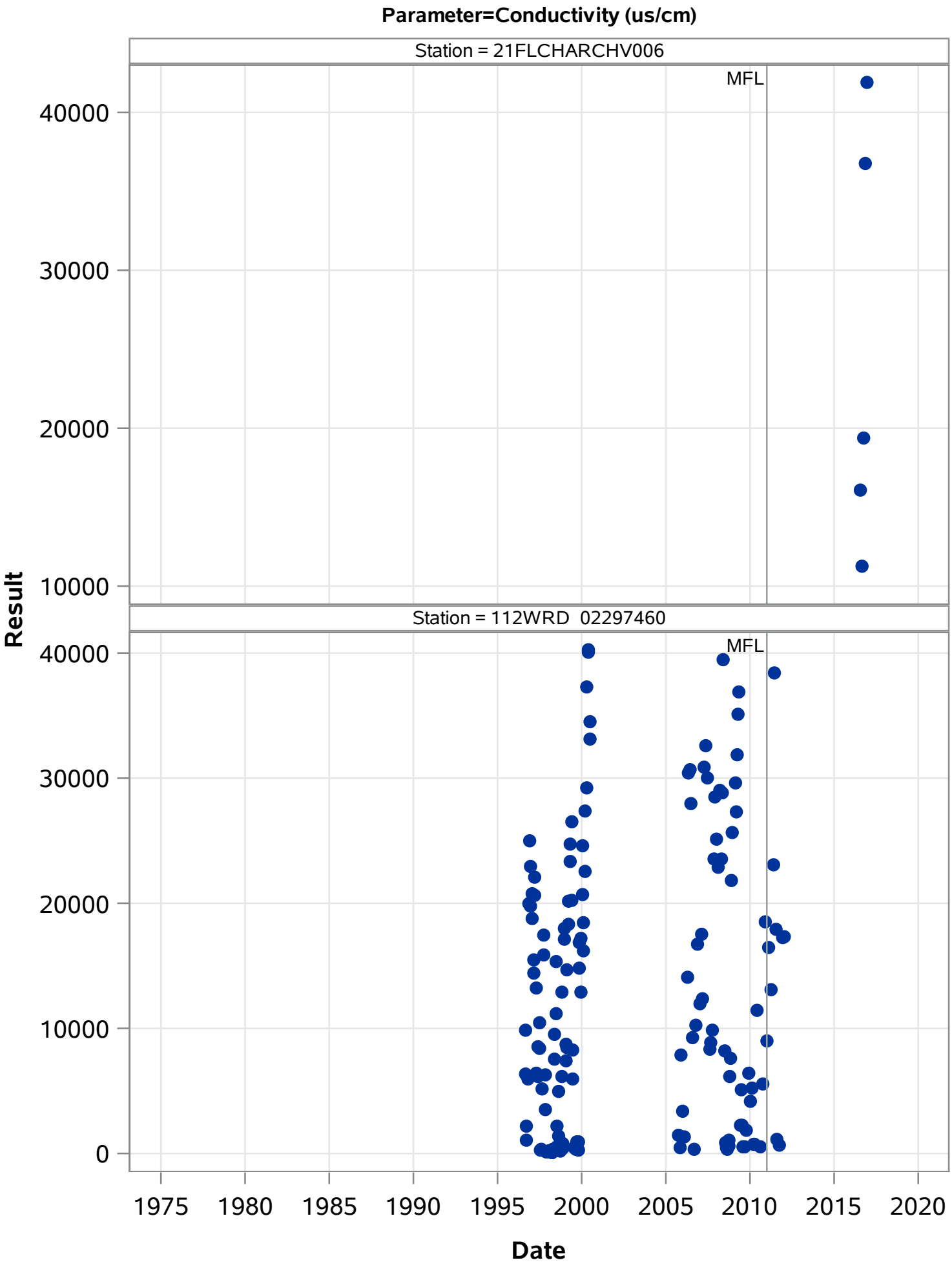
APPENDIX H

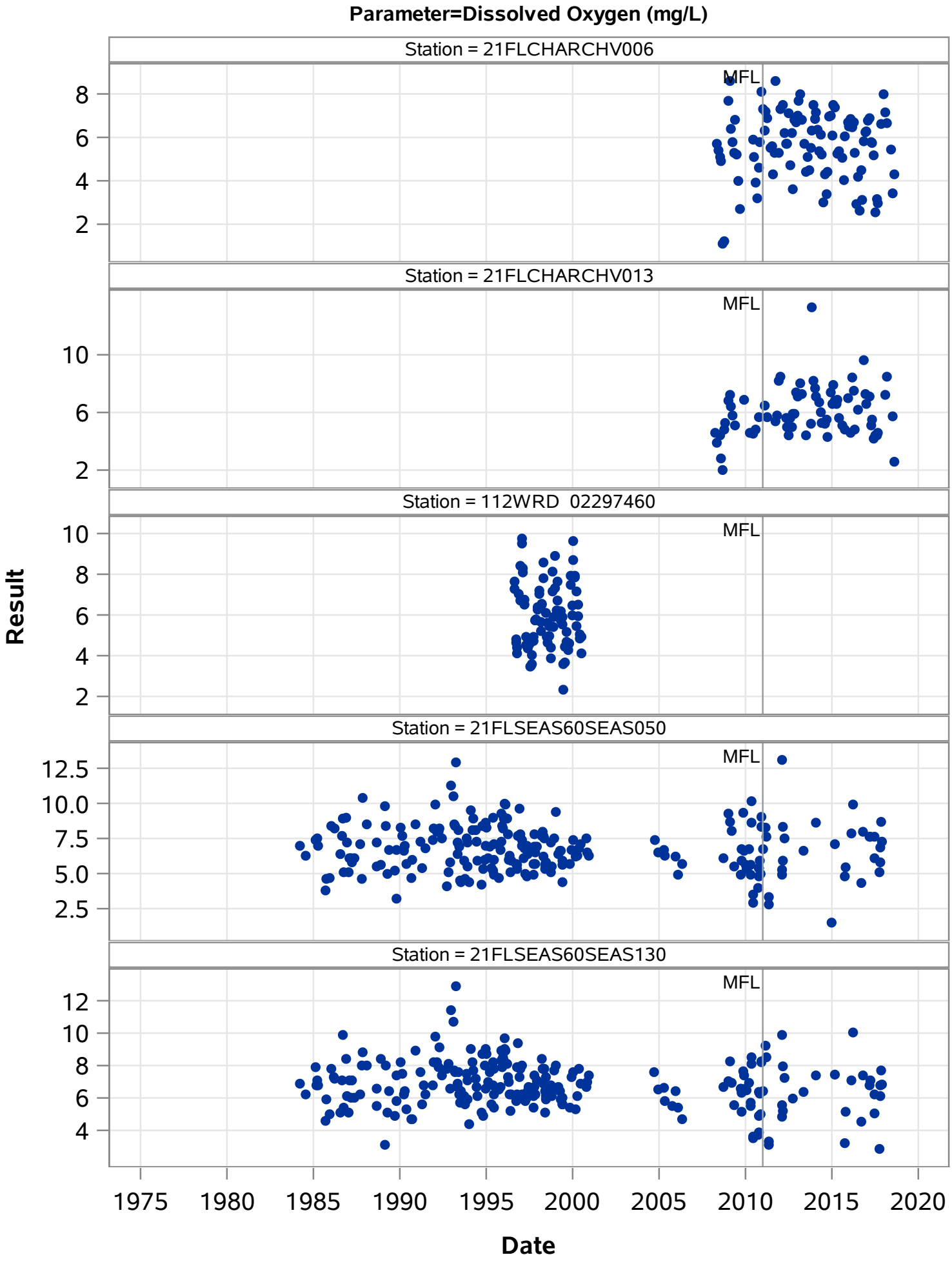
IWR Run 56 Water Quality Time Series and Box and Whisker Plots

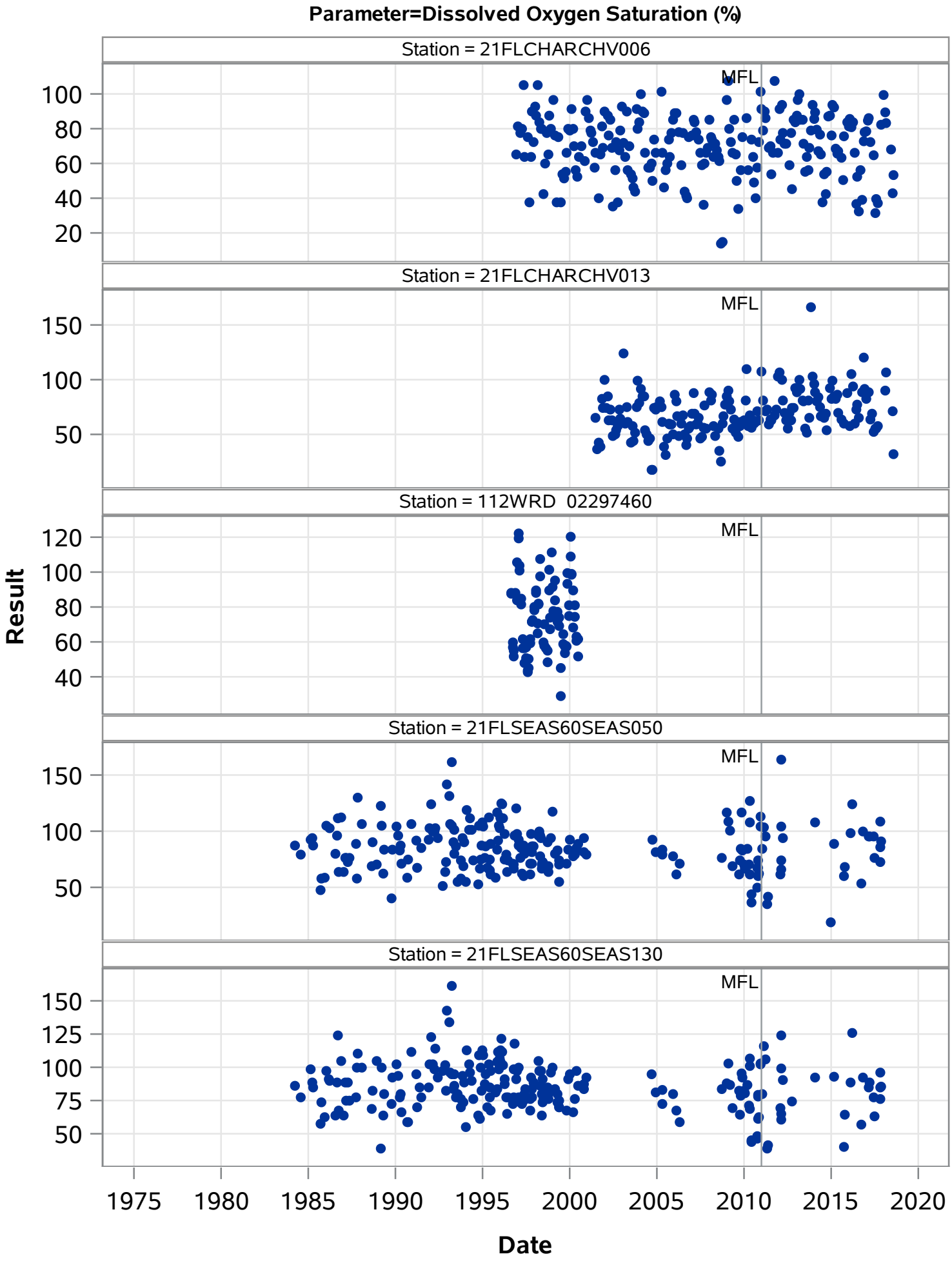

Parameter=Chlorophyll a (ug/L)
Station = 21FLCHARCHV006
MFL
Station = 21FLCHARCHV013
MFL
Result
0
20
40
60
80
0
10
20
30
40
50
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

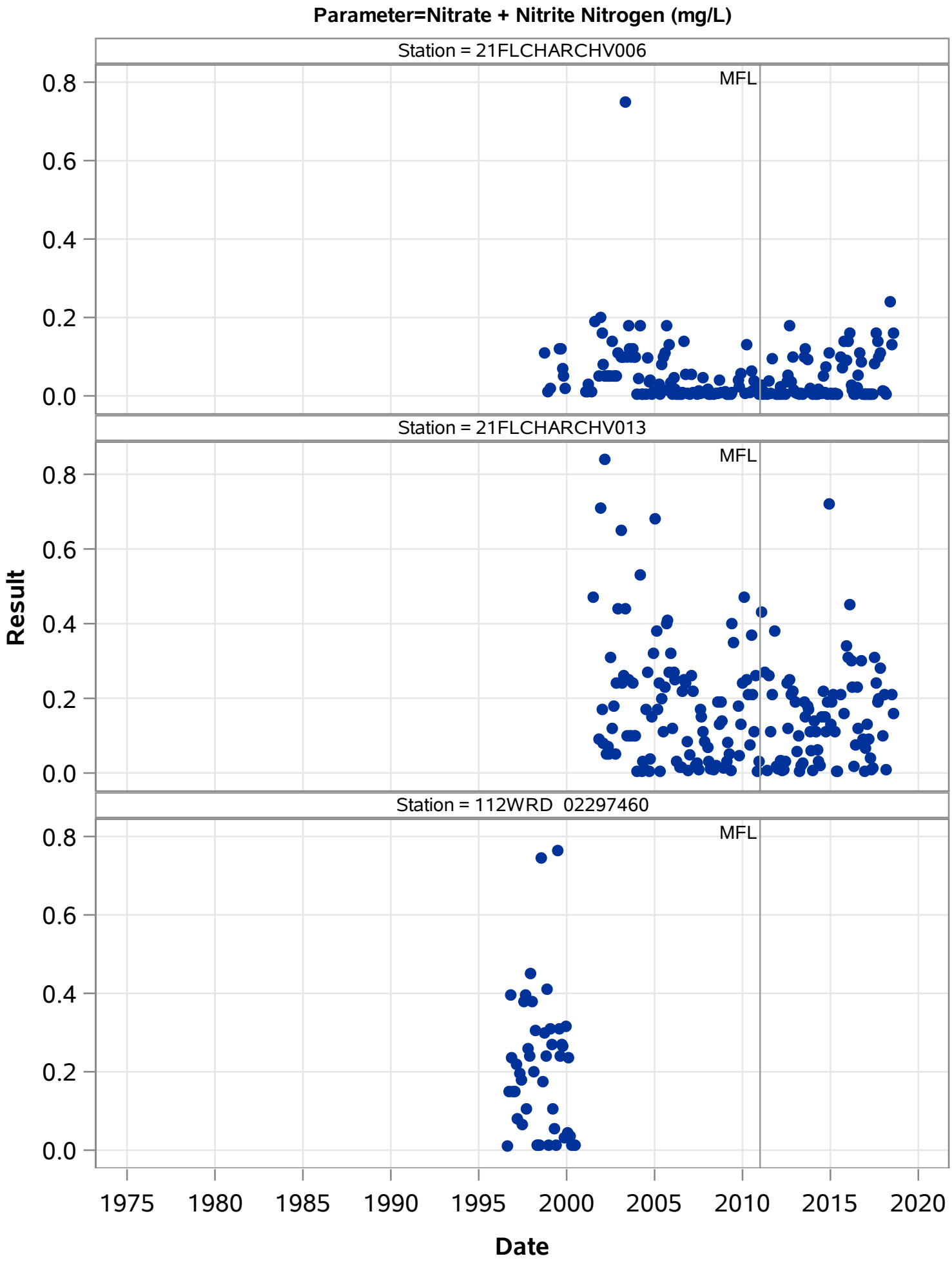

Parameter=Corrected Chlorophyll a (ug/L)
Station = 21FLCHARCHV006
MFL
Station = 21FLCHARCHV013
MFL
Result
Date
0
20
40
60
80
100
10
30
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020

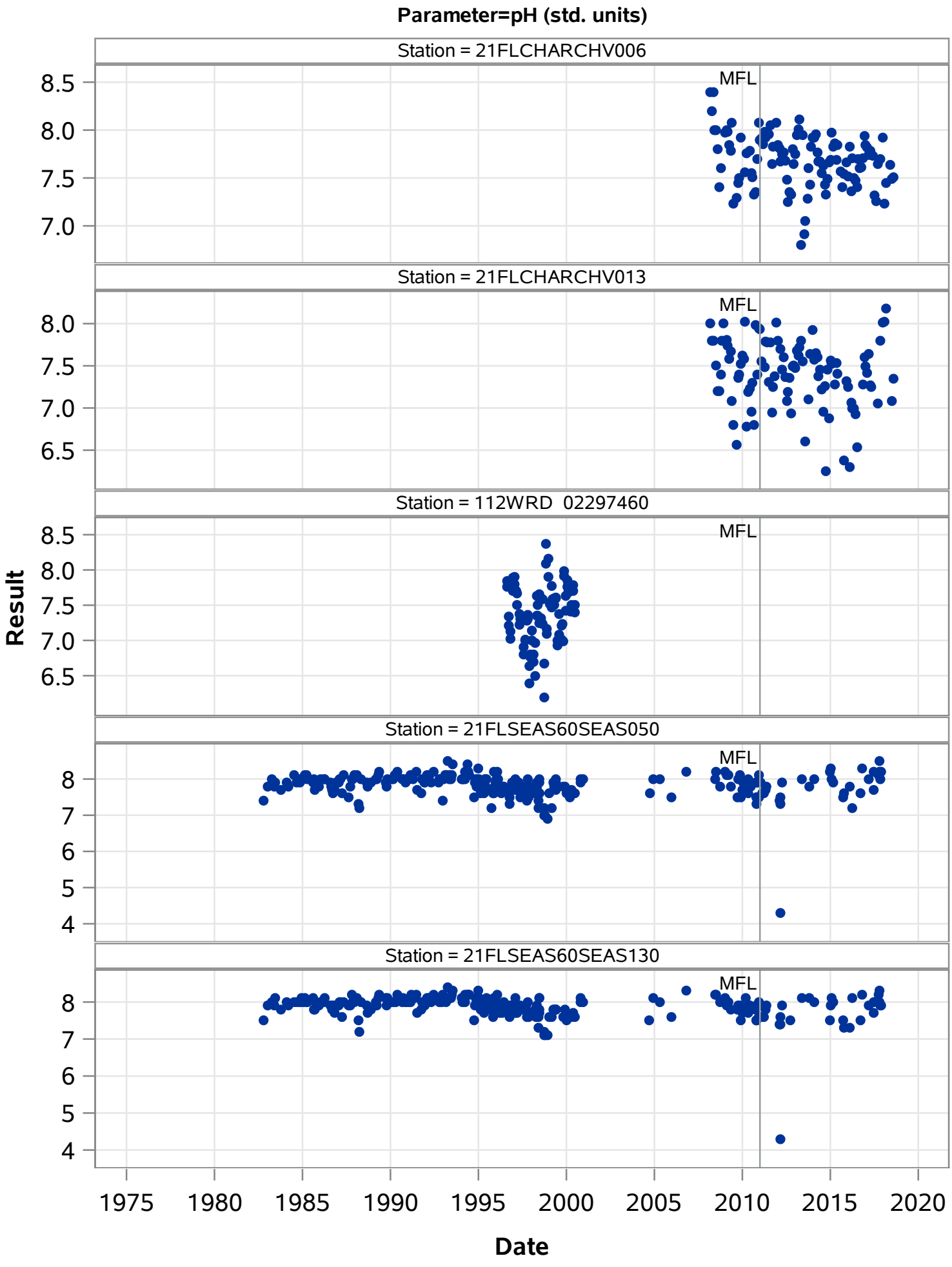

Parameter=Color (pcu)
Station = 21FLCHARCHV006
MFL
300
200
100
0
Station = 21FLCHARCHV013
MFL
500
400
300
200
100
0
Station = 112WRD 02297460
MFL
300
200
100
0
Result
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

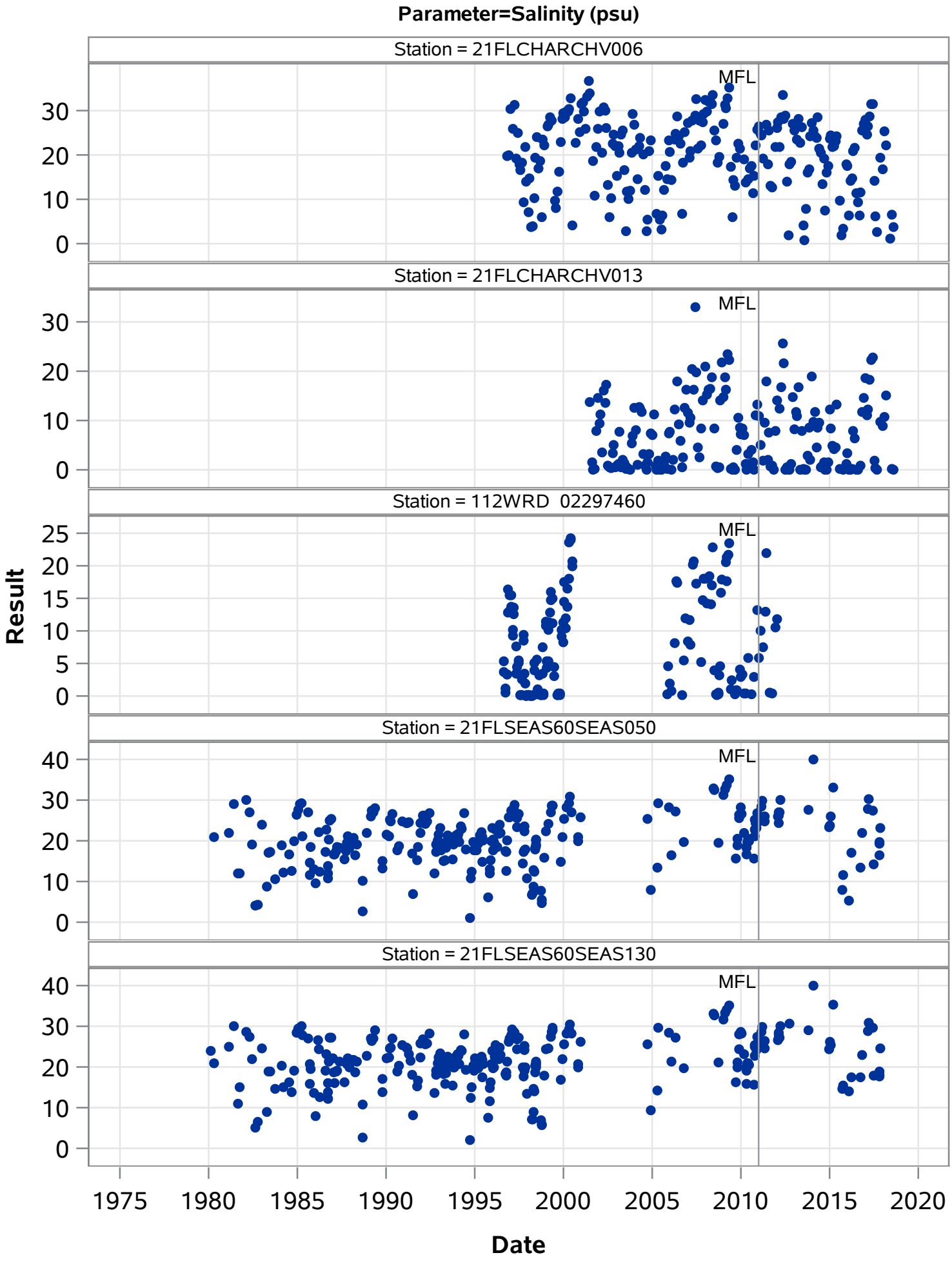

Parameter=Conductivity (us/cm)
Station = 21FLCHARCHV006
MFL
Station = 112WRD 02297460
MFL
Result
40000
30000
20000
10000
0
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

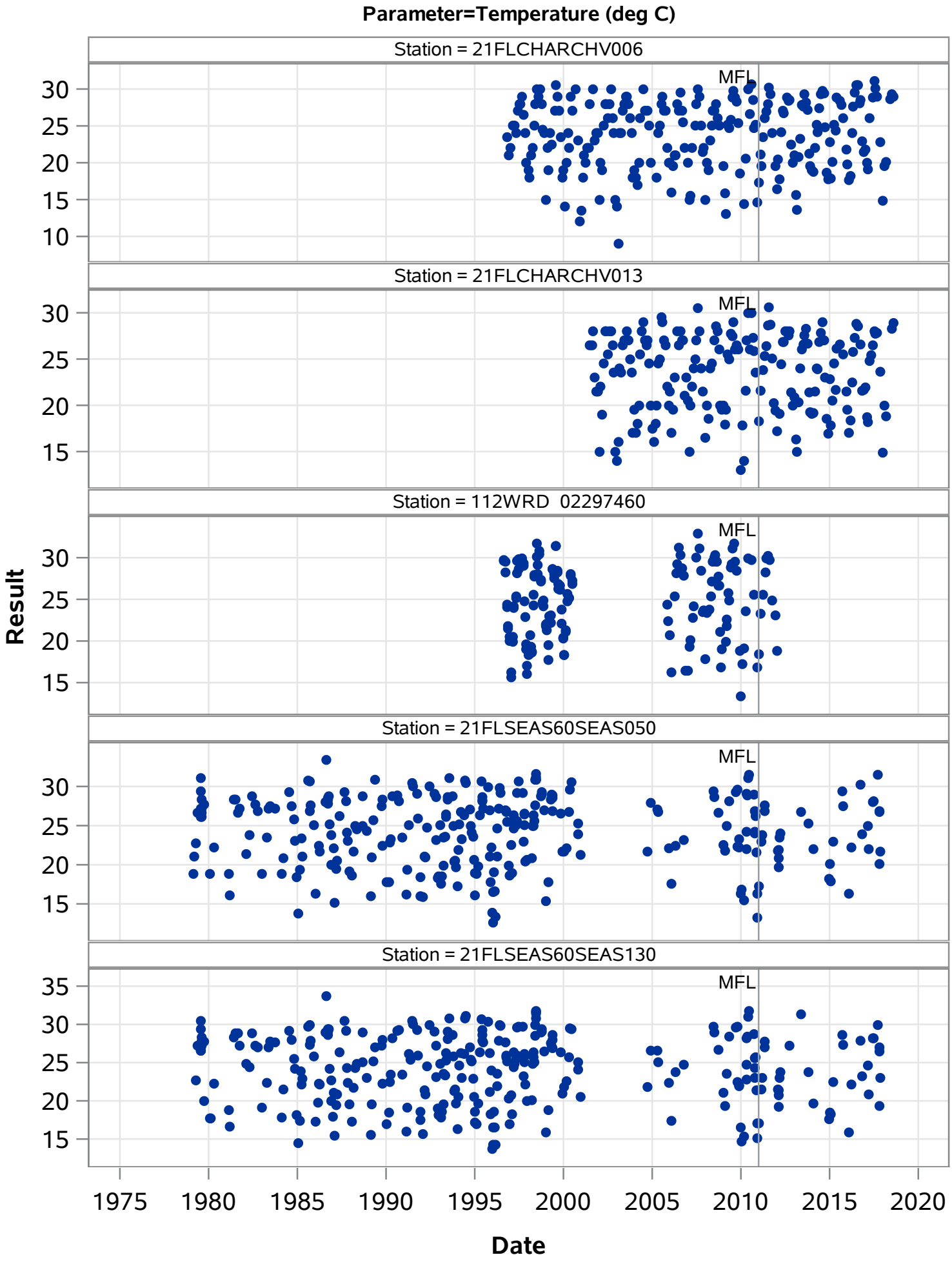

Parameter=Dissolved Oxygen (mg/L)
Station = 21FLCHARCHV006
MFL
8
6
4
2
Station = 21FLCHARCHV013
MFL
10
6
2
Station = 112WRD 02297460
MFL
10
8
6
4
2
Station = 21FLSEAS60SEAS050
MFL
12.5
10.0
7.5
5.0
2.5
Station = 21FLSEAS60SEAS130
MFL
12
10
8
6
4
Result
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

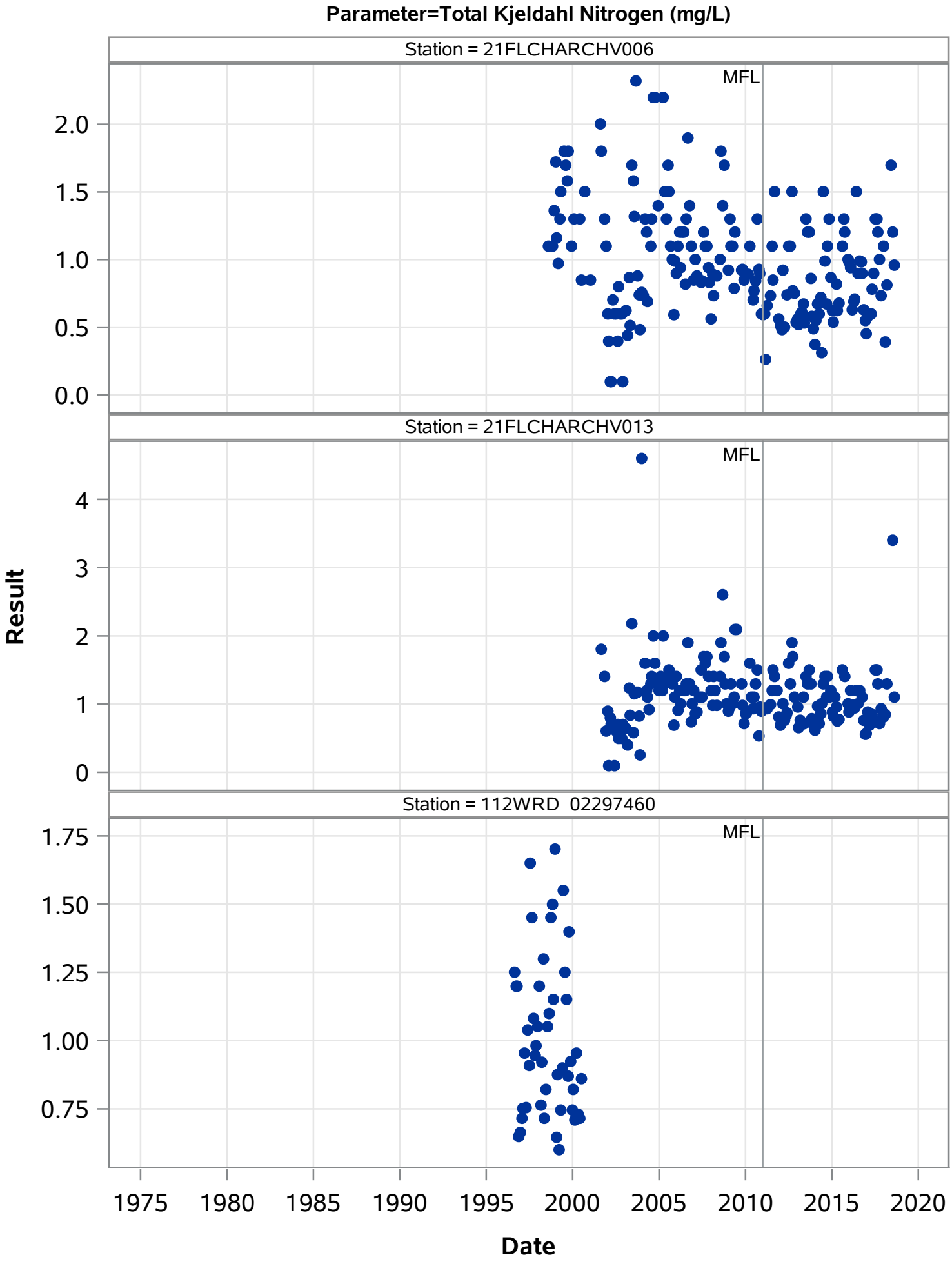

Parameter=Dissolved Oxygen Saturation (%)
Station = 21FLCHARCHV006
MFL
100
80
60
40
20
Station = 21FLCHARCHV013
MFL
150
100
50
Station = 112WRD 02297460
MFL
120
100
80
60
40
Station = 21FLSEAS60SEAS050
MFL
150
100
50
Station = 21FLSEAS60SEAS130
MFL
150
125
100
75
50
Result
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

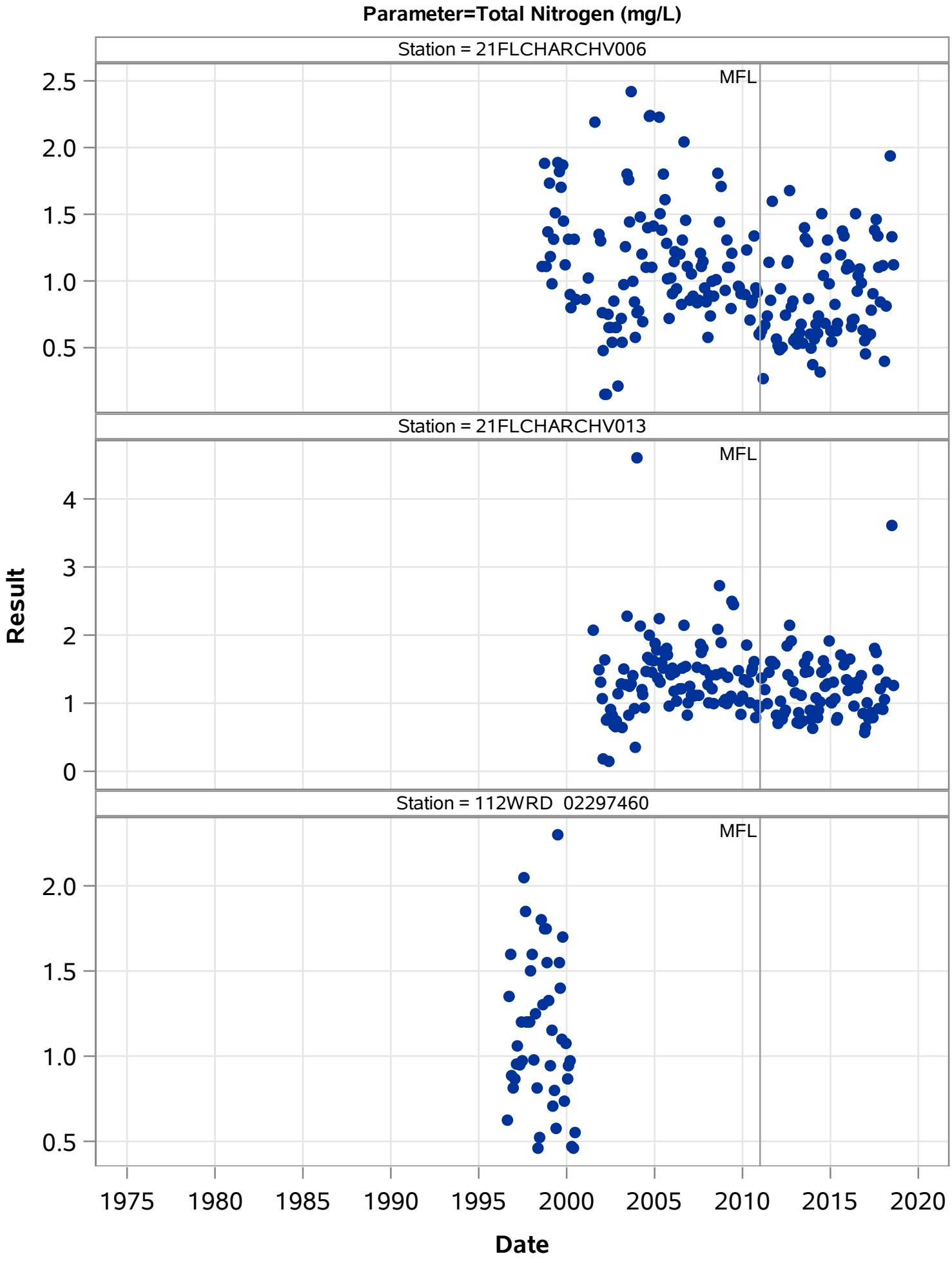

Parameter=Nitrate + Nitrite Nitrogen (mg/L)
Station = 21FLCHARCHV006
Station = 21FLCHARCHV013
Station = 112WRD 02297460
MFL
Result
0.0
0.2
0.4
0.6
0.8
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

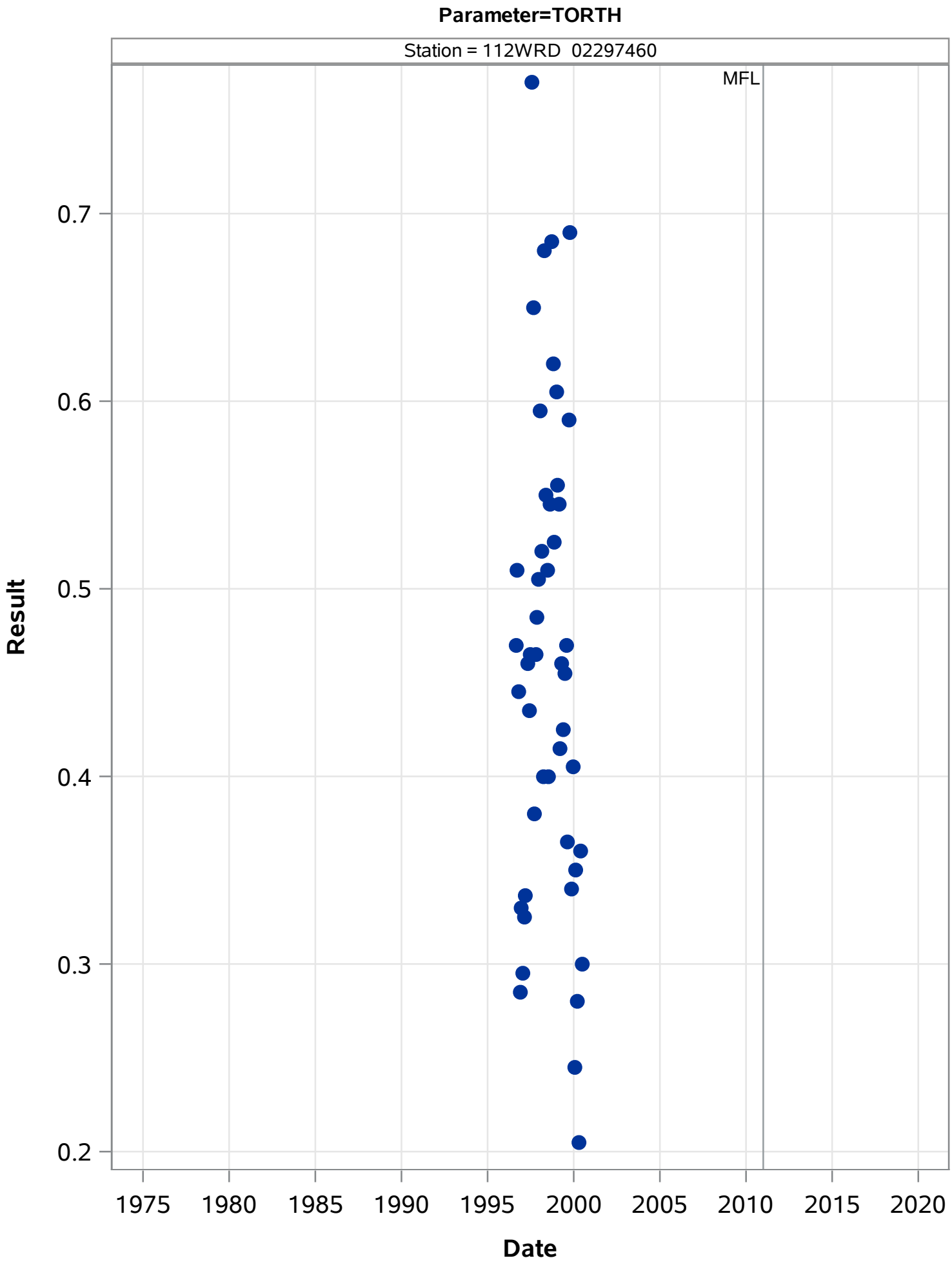

Parameter=pH (std. units)
Station = 21FLCHARCHV006
Station = 21FLCHARCHV013
Station = 112WRD 02297460
Station = 21FLSEAS60SEAS050
Station = 21FLSEAS60SEAS130
MFL
Result
Date
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020

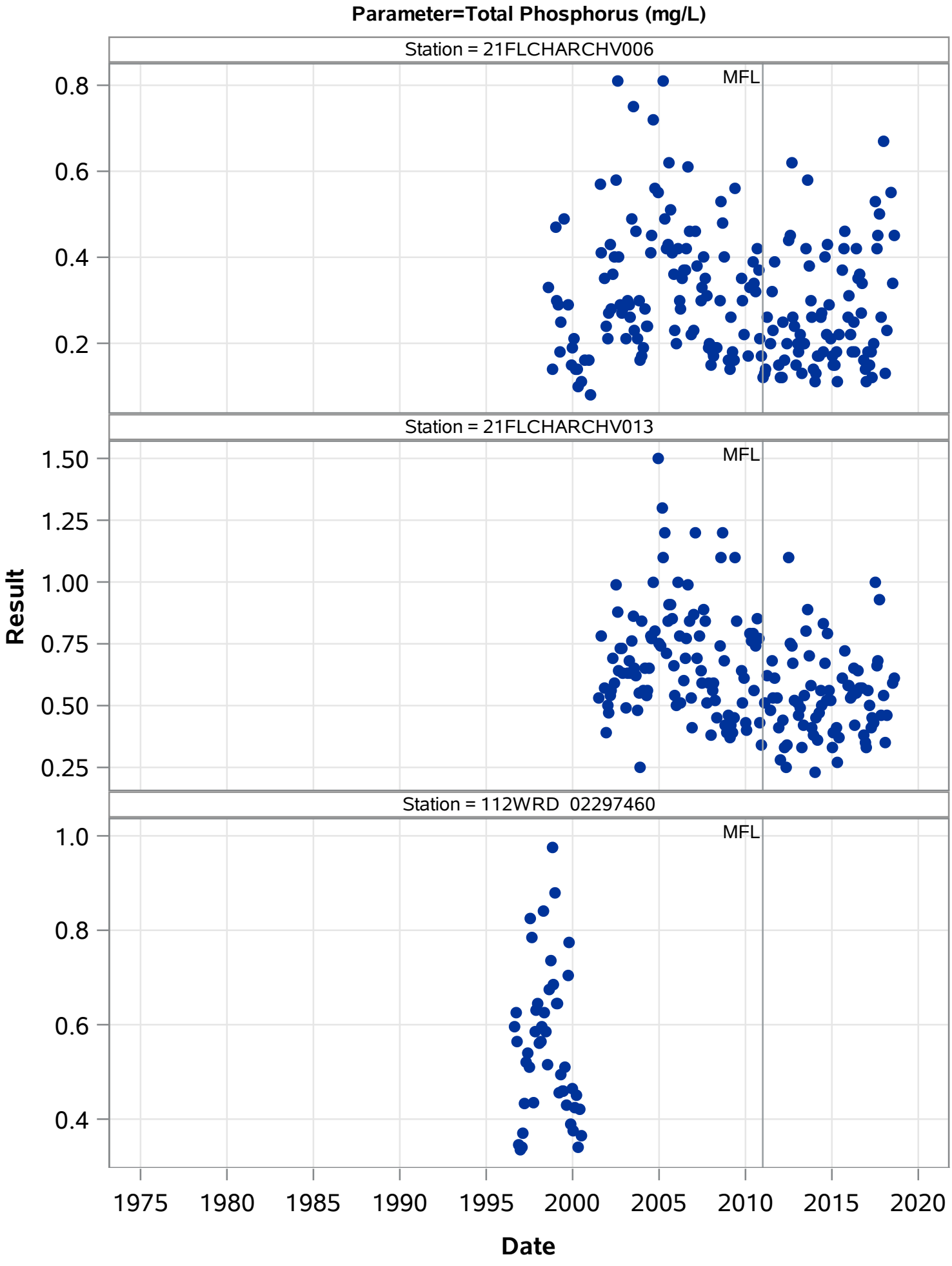

Parameter=Salinity (psu)
Station = 21FLCHARCHV006
Station = 21FLCHARCHV013
Station = 112WRD 02297460
Station = 21FLSEAS60SEAS050
Station = 21FLSEAS60SEAS130
MFL
Result
Date
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020

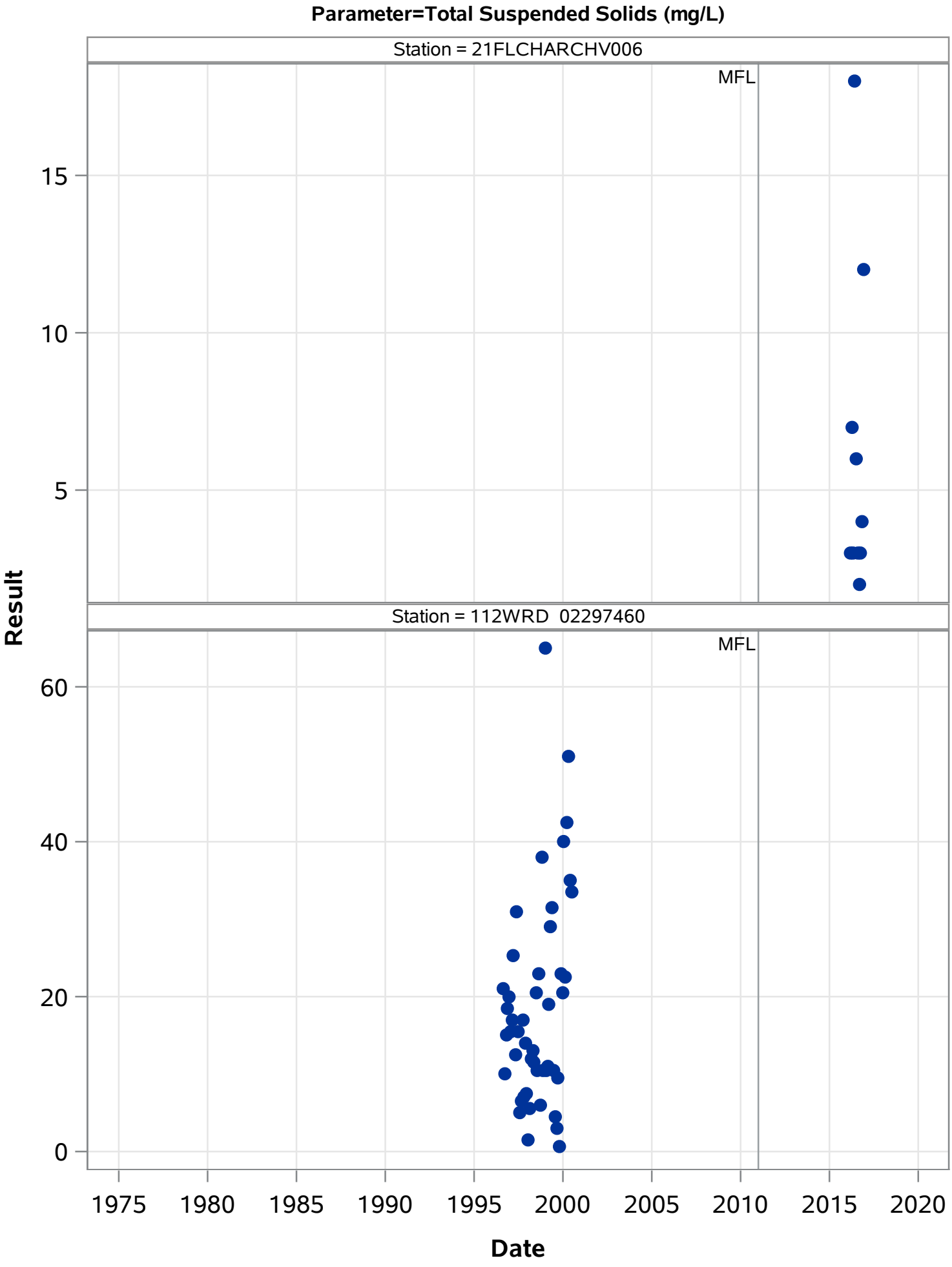

Parameter=Temperature (deg C)
Station = 21FLCHARCHV006
Station = 21FLCHARCHV013
Station = 112WRD 02297460
Station = 21FLSEAS60SEAS050
Station = 21FLSEAS60SEAS130
MFL
Result
Date
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020

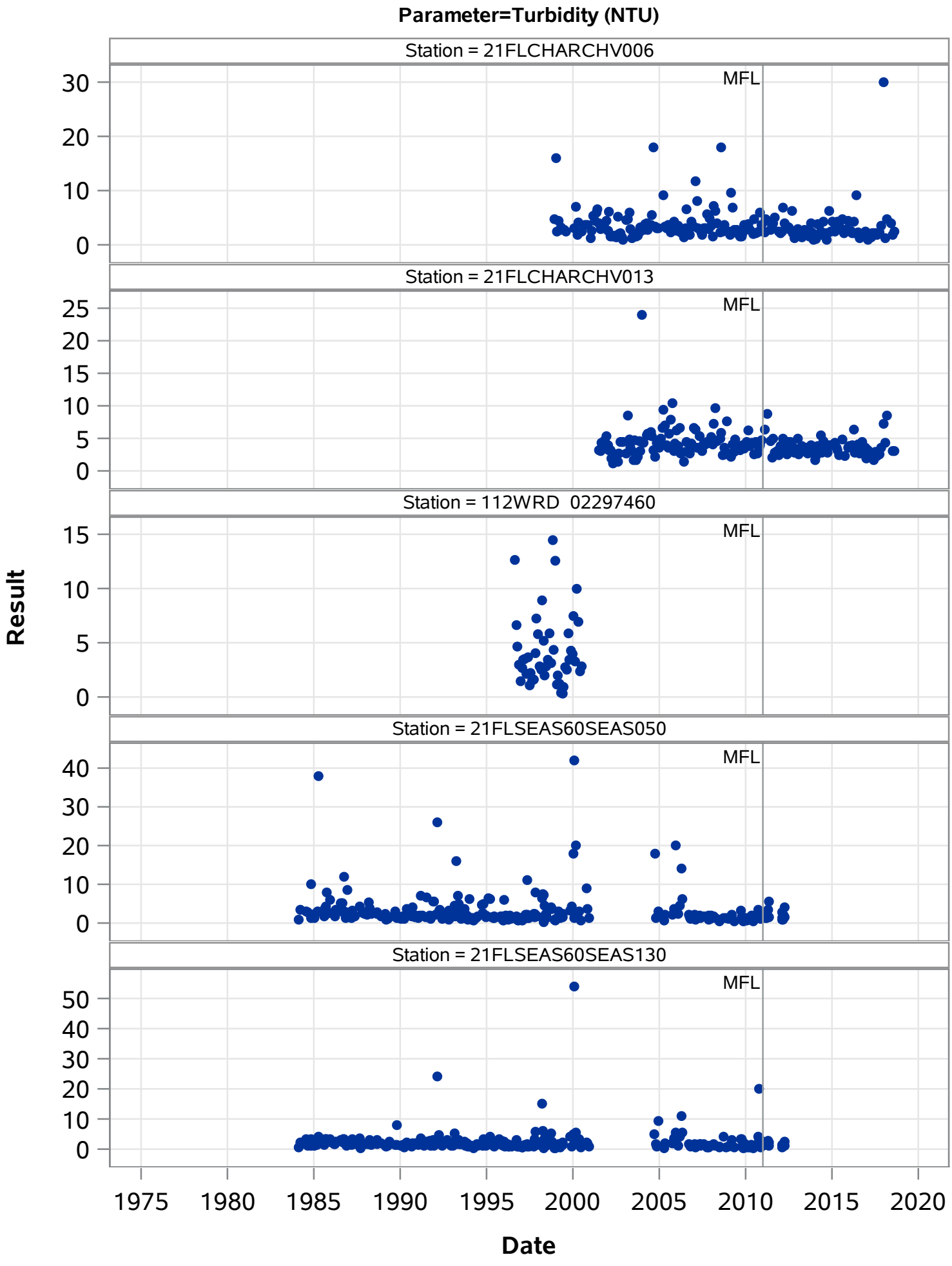

Parameter=Total Kjeldahl Nitrogen (mg/L)
Station = 21FLCHARCHV006
MFL
2.0
1.5
1.0
0.5
0.0
Station = 21FLCHARCHV013
MFL
4
3
2
1
0
Station = 112WRD 02297460
MFL
1.75
1.50
1.25
1.00
0.75
Result
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

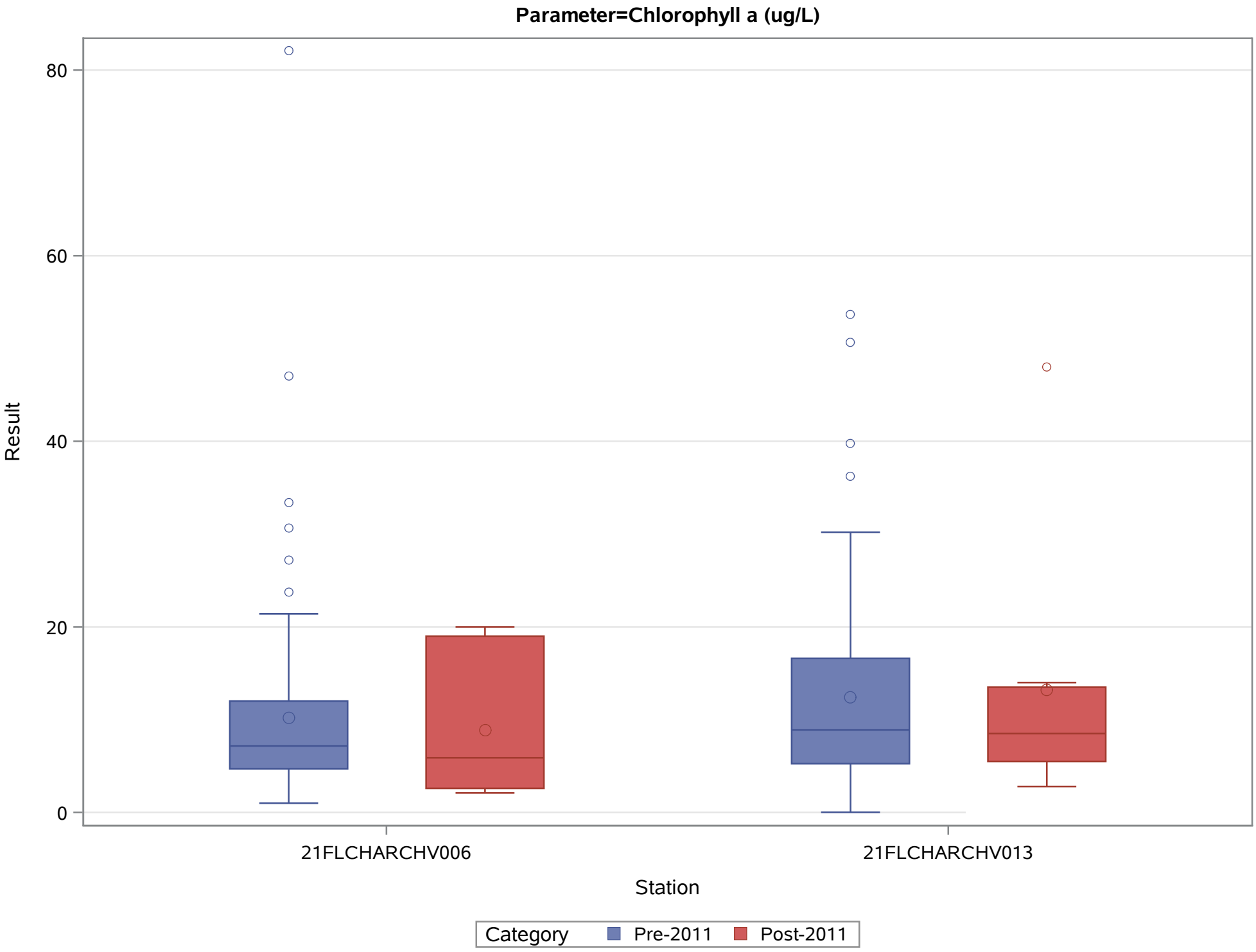

Parameter=Total Nitrogen (mg/L)
Station = 21FLCHARCHV006
MFL
2.5
2.0
1.5
1.0
0.5
Station = 21FLCHARCHV013
MFL
4
3
2
1
0
Station = 112WRD 02297460
MFL
2.0
1.5
1.0
0.5
Result
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

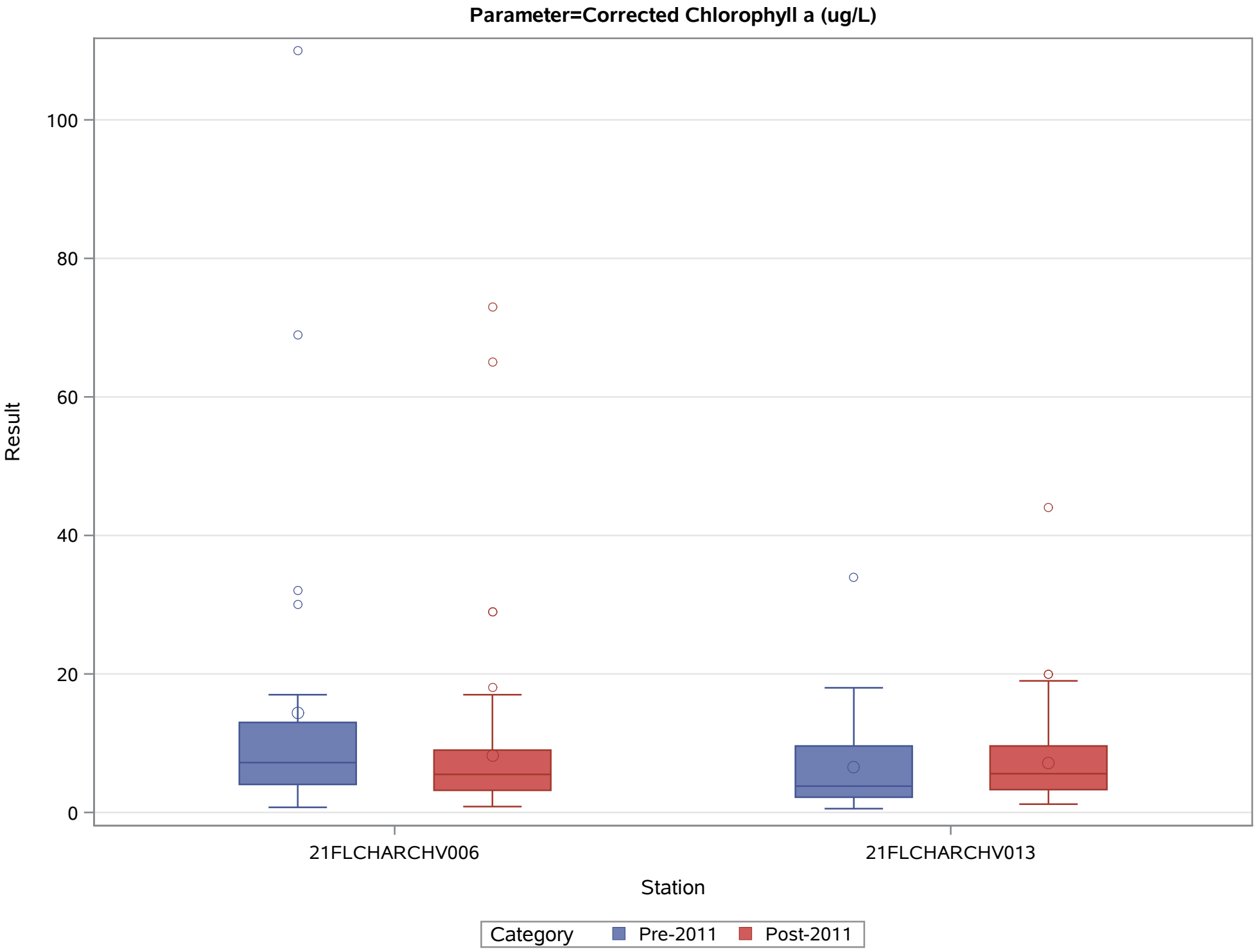

Parameter=TORTH
Station = 112WRD 02297460
MFL
Result
0.7
0.6
0.5
0.4
0.3
0.2
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

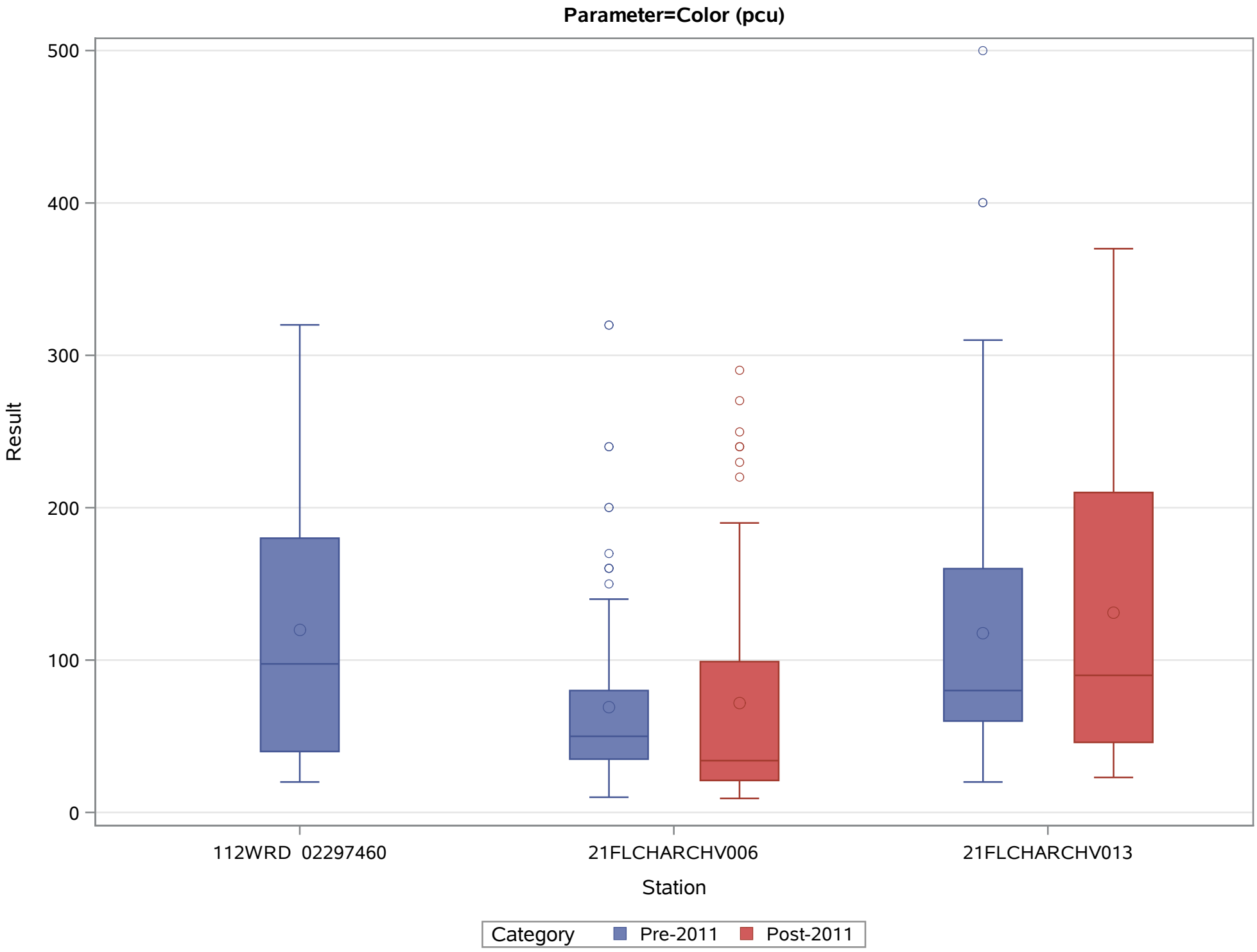

Parameter=Total Phosphorus (mg/L)
Station = 21FLCHARCHV006
MFL
0.8
0.6
0.4
0.2
Station = 21FLCHARCHV013
MFL
1.50
1.25
1.00
0.75
0.50
0.25
Station = 112WRD 02297460
MFL
1.0
0.8
0.6
0.4
Result
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

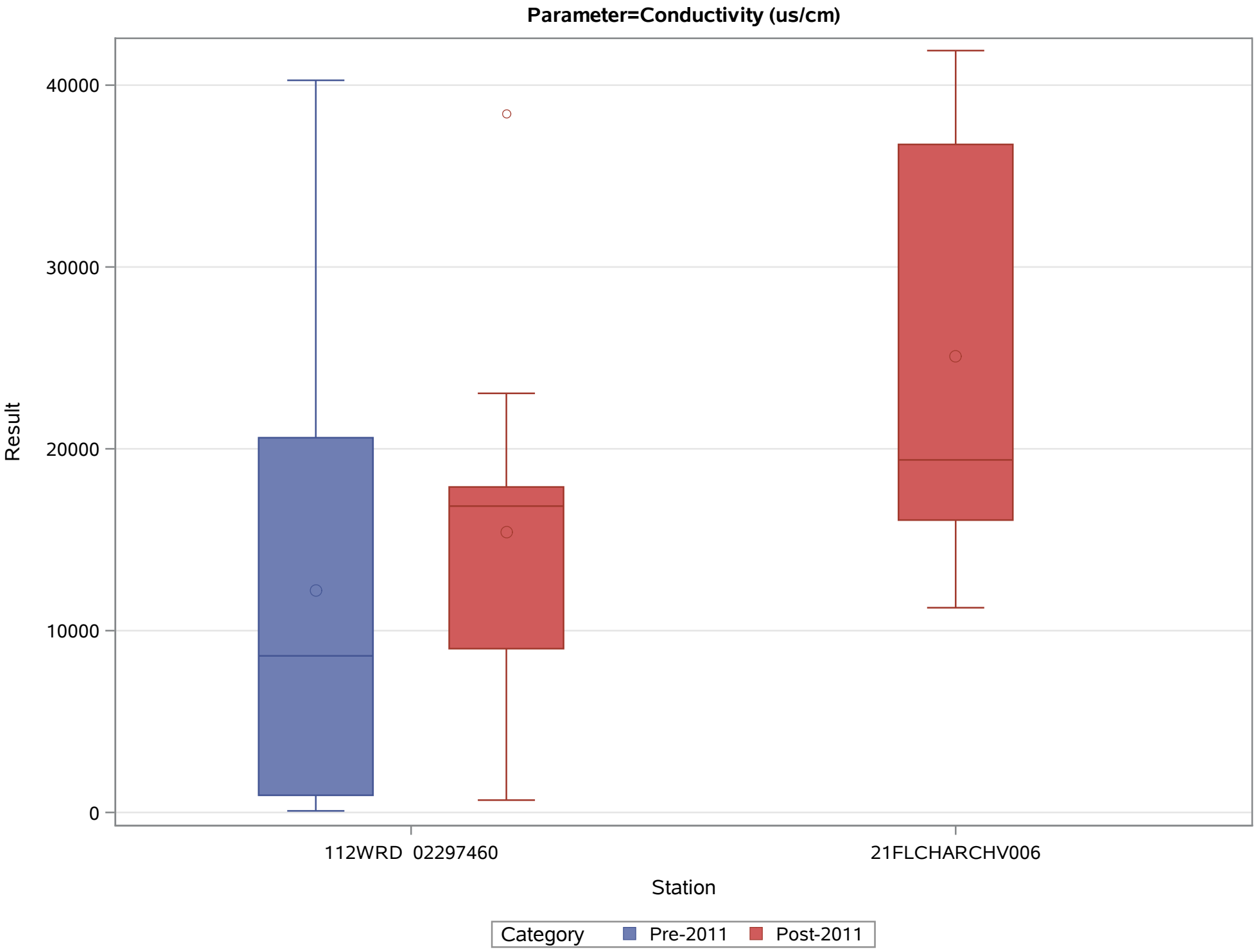

Parameter=Total Suspended Solids (mg/L)
Station = 21FLCHARCHV006
MFL
Station = 112WRD 02297460
MFL
Result
0
5
10
15
20
40
60
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020
Date

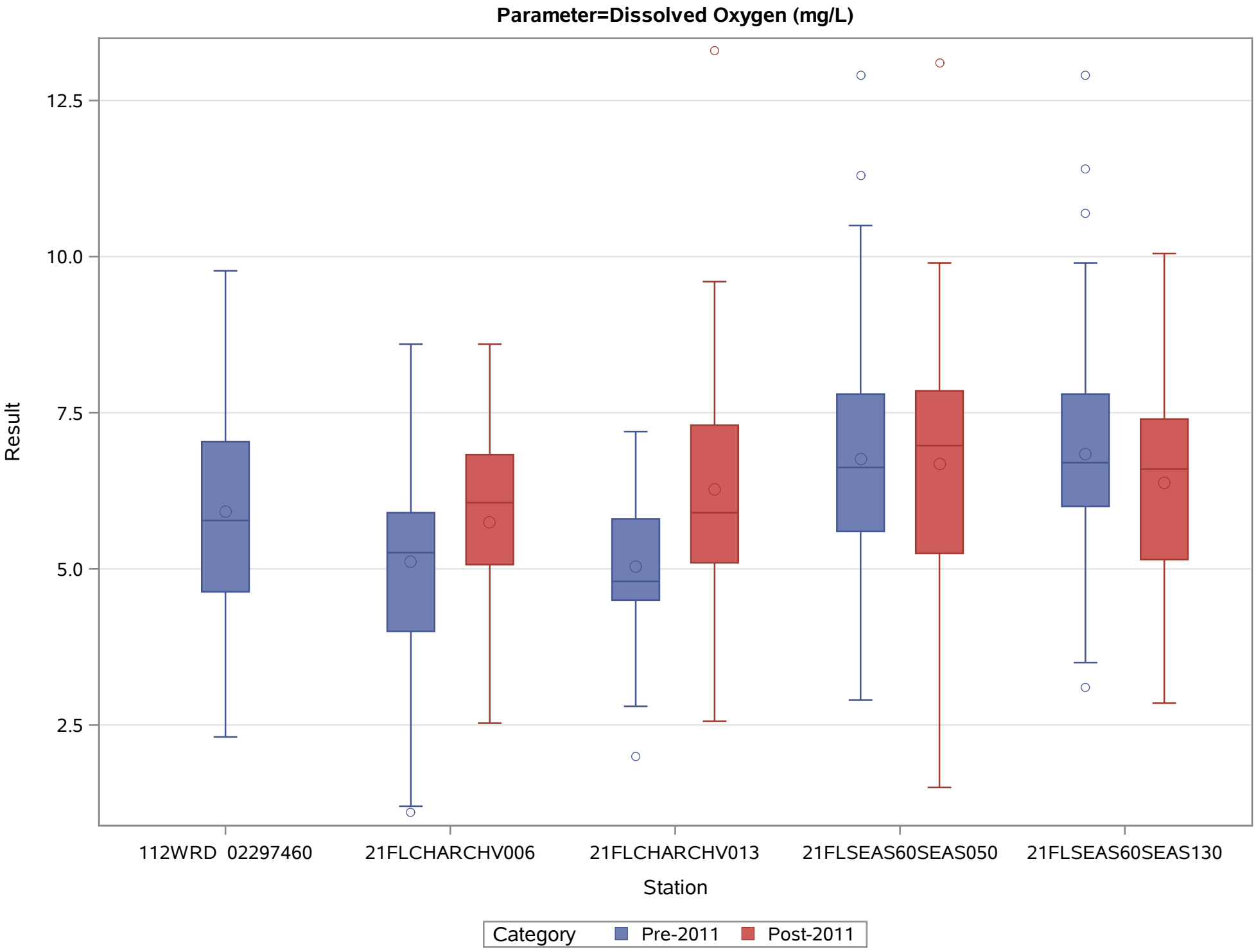

Parameter=Turbidity (NTU)
Station = 21FLCHARCHV006
Station = 21FLCHARCHV013
Station = 112WRD 02297460
Station = 21FLSEAS60SEAS050
Station = 21FLSEAS60SEAS130
MFL
Result
Date
1975
1980
1985
1990
1995
2000
2005
2010
2015
2020

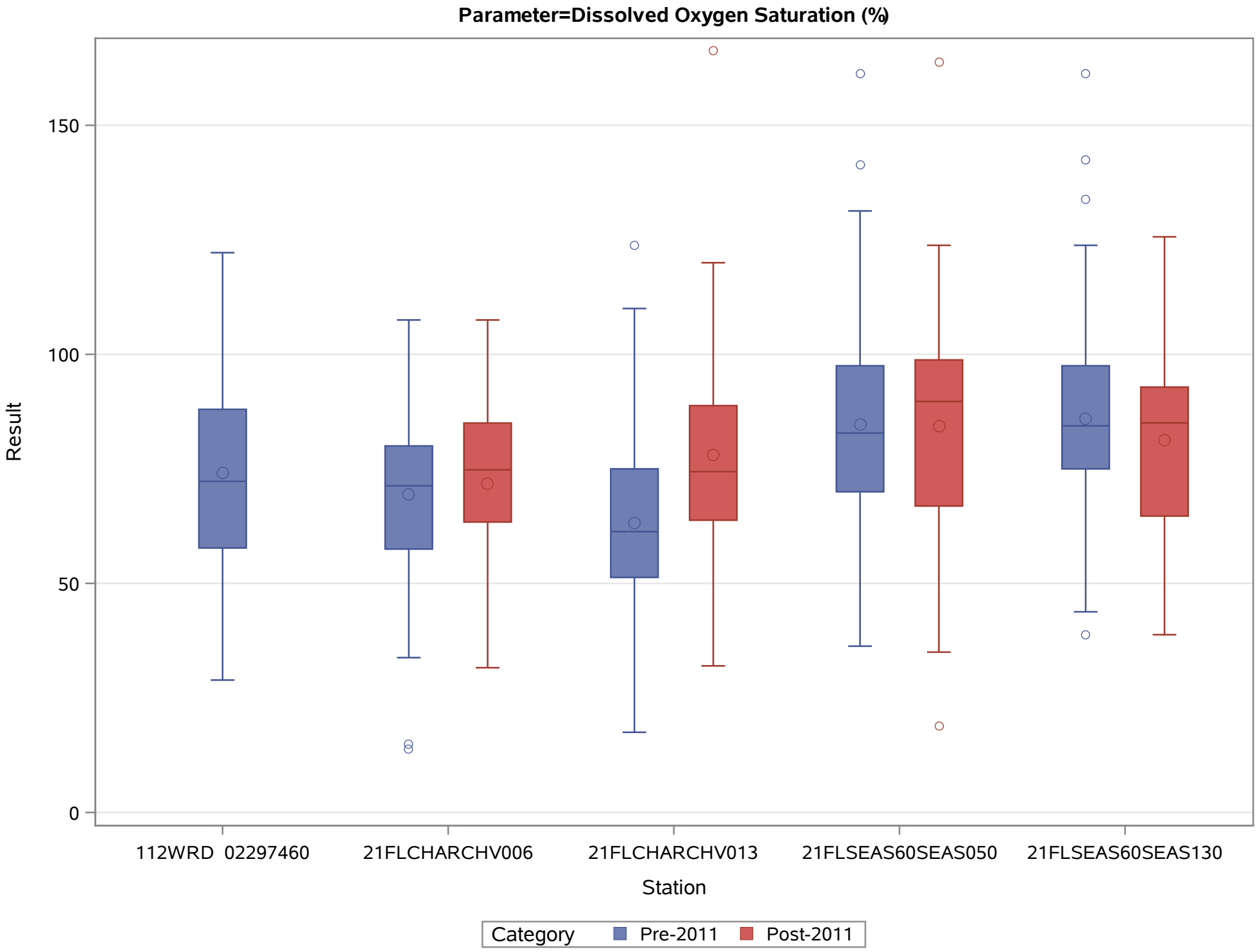

Parameter=Chlorophyll a (ug/L)
Result
80
60
40
20
0
21FLCHARCHV006
21FLCHARCHV013
Station
Category
Pre-2011
Post-2011

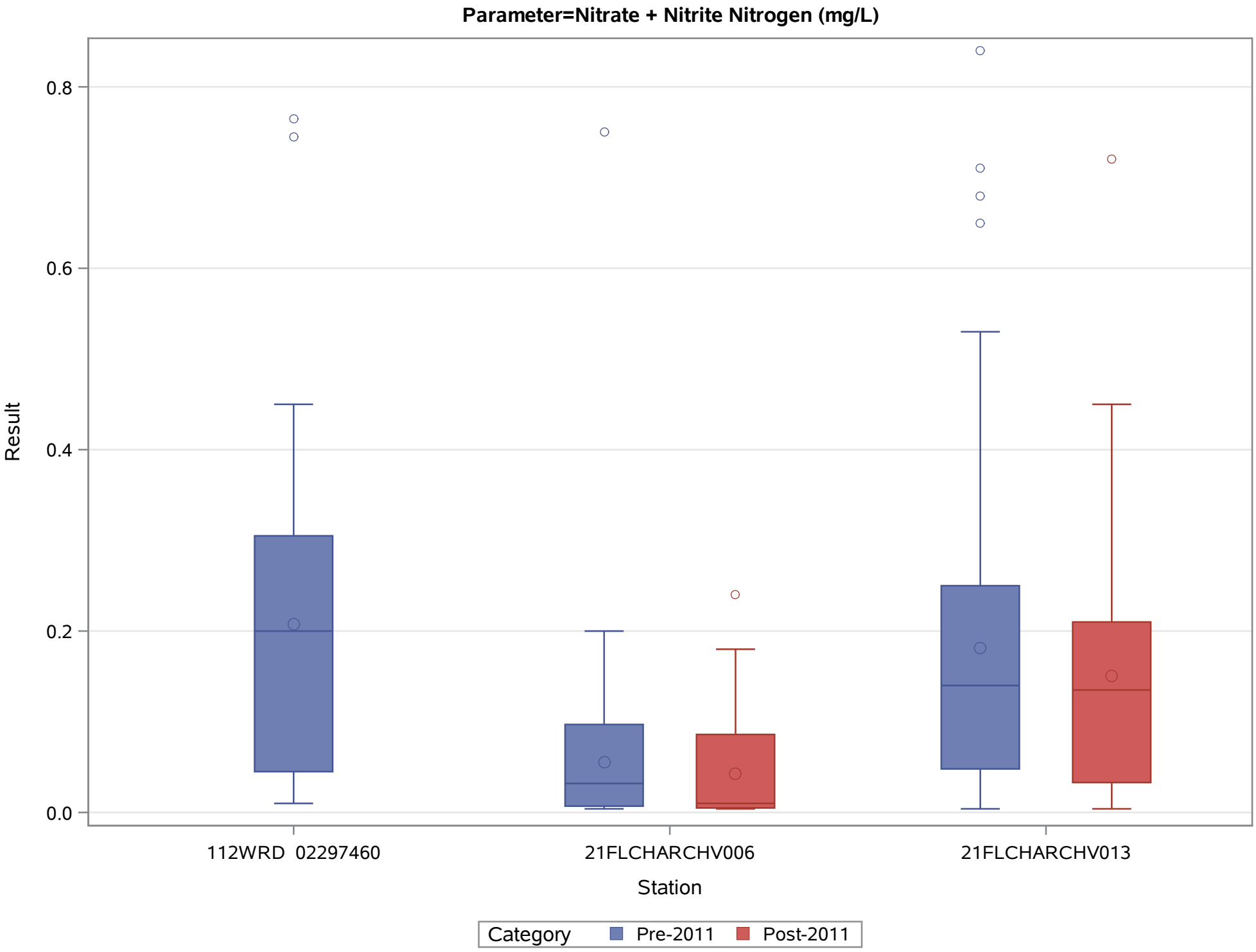

Parameter=Corrected Chlorophyll a (ug/L)
Result
100
80
60
40
20
0
21FLCHARCHV006
21FLCHARCHV013
Station
Category
Pre-2011
Post-2011

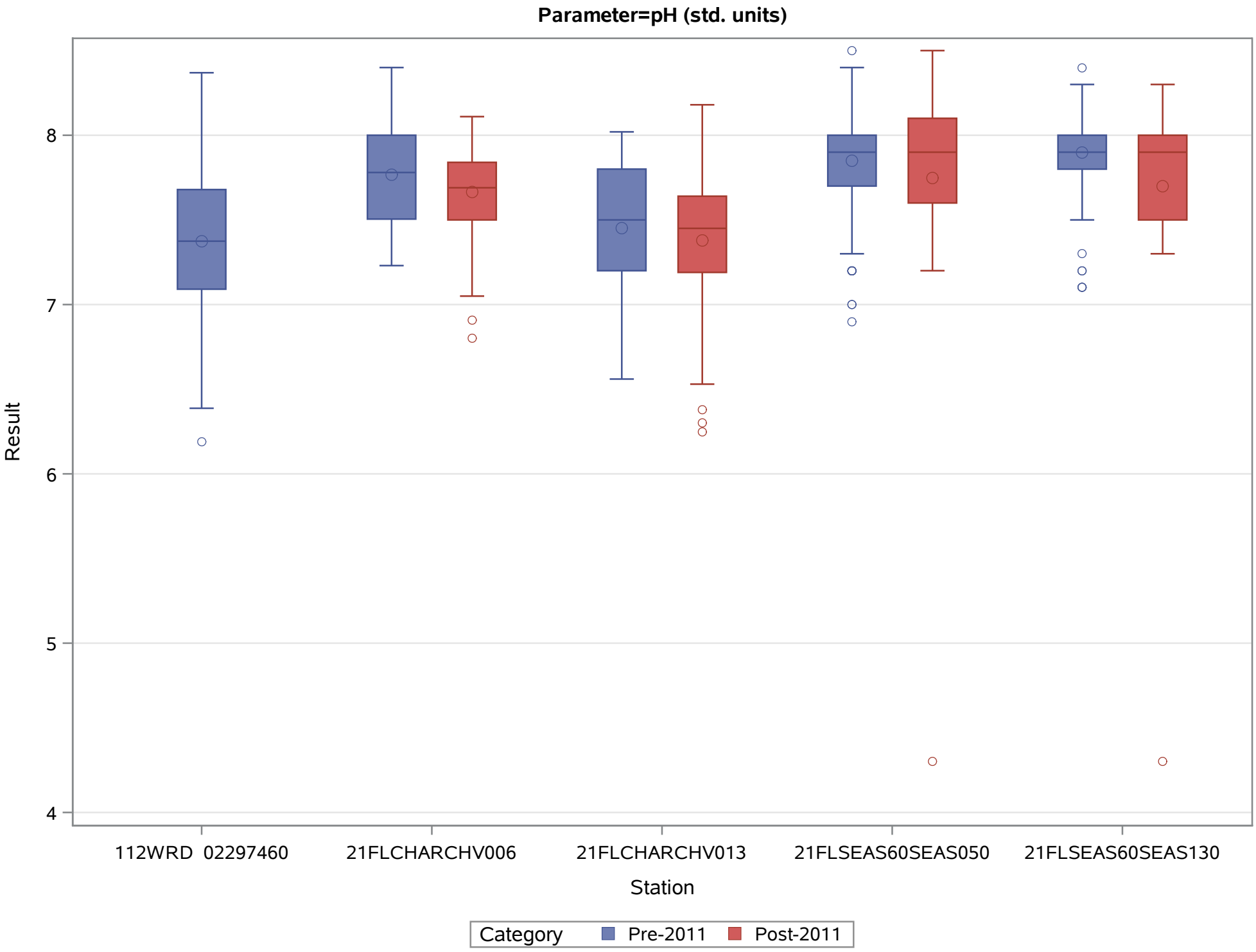

Parameter=Color (pcu)
500
400
300
200
100
0
Result
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
Station
Category
Pre-2011
Post-2011

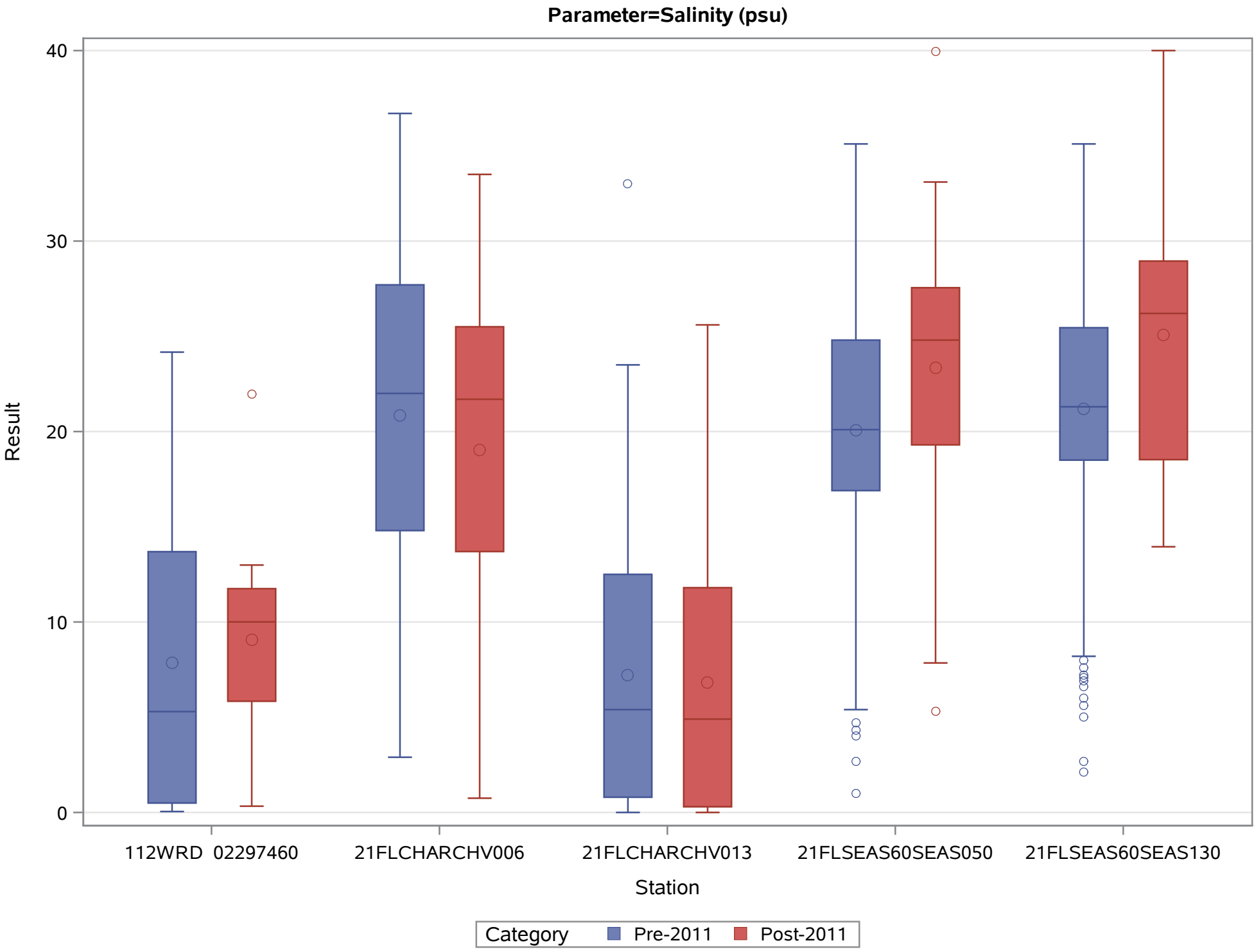

Parameter=Conductivity (us/cm)
40000
30000
20000
10000
0
Result
112WRD 02297460
21FLCHARCHV006
Station
Category
Pre-2011
Post-2011

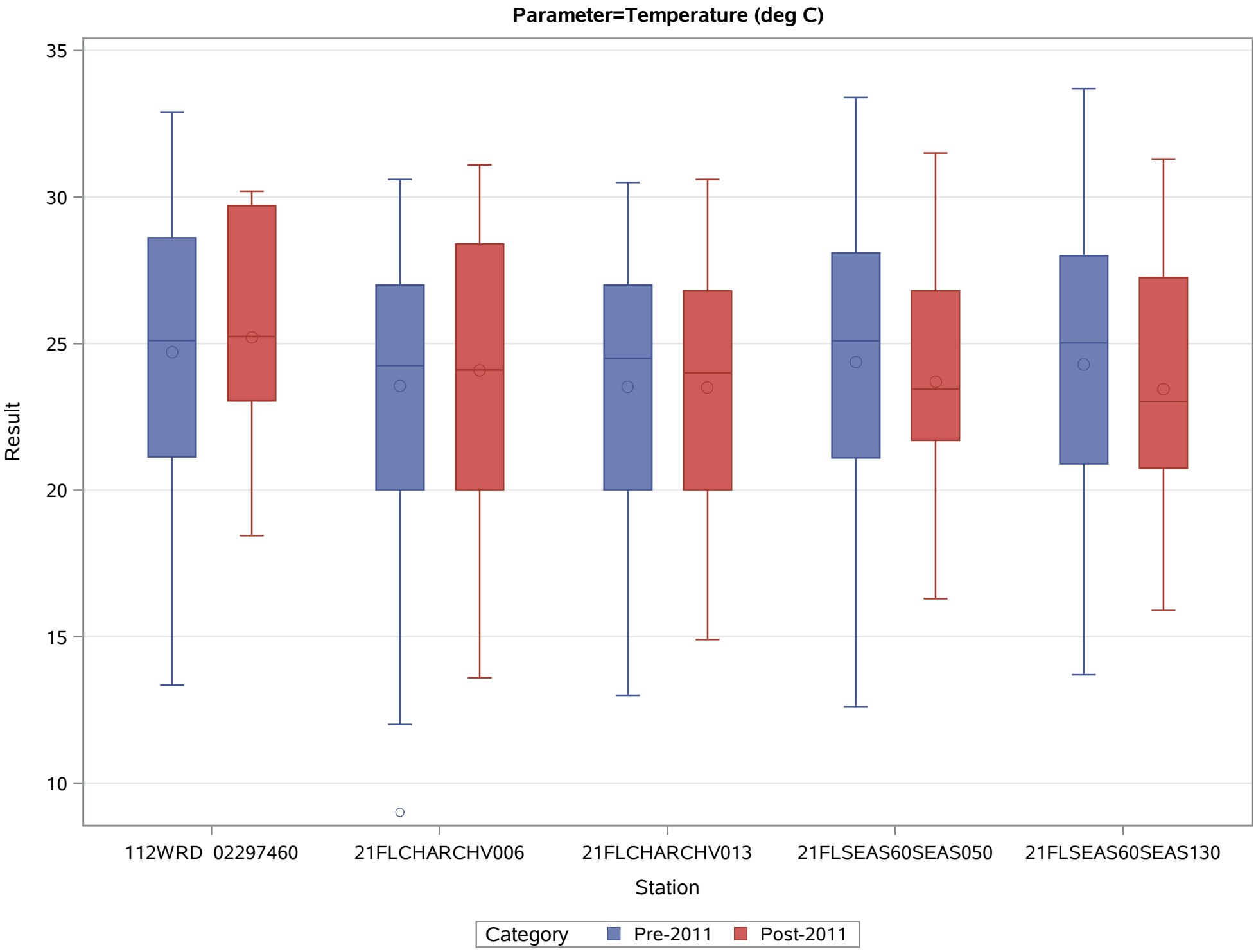

Parameter=Dissolved Oxygen (mg/L)
Result
12.5
10.0
7.5
5.0
2.5
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
21FLSEAS60SEAS050
21FLSEAS60SEAS130
Station
Category
Pre-2011
Post-2011

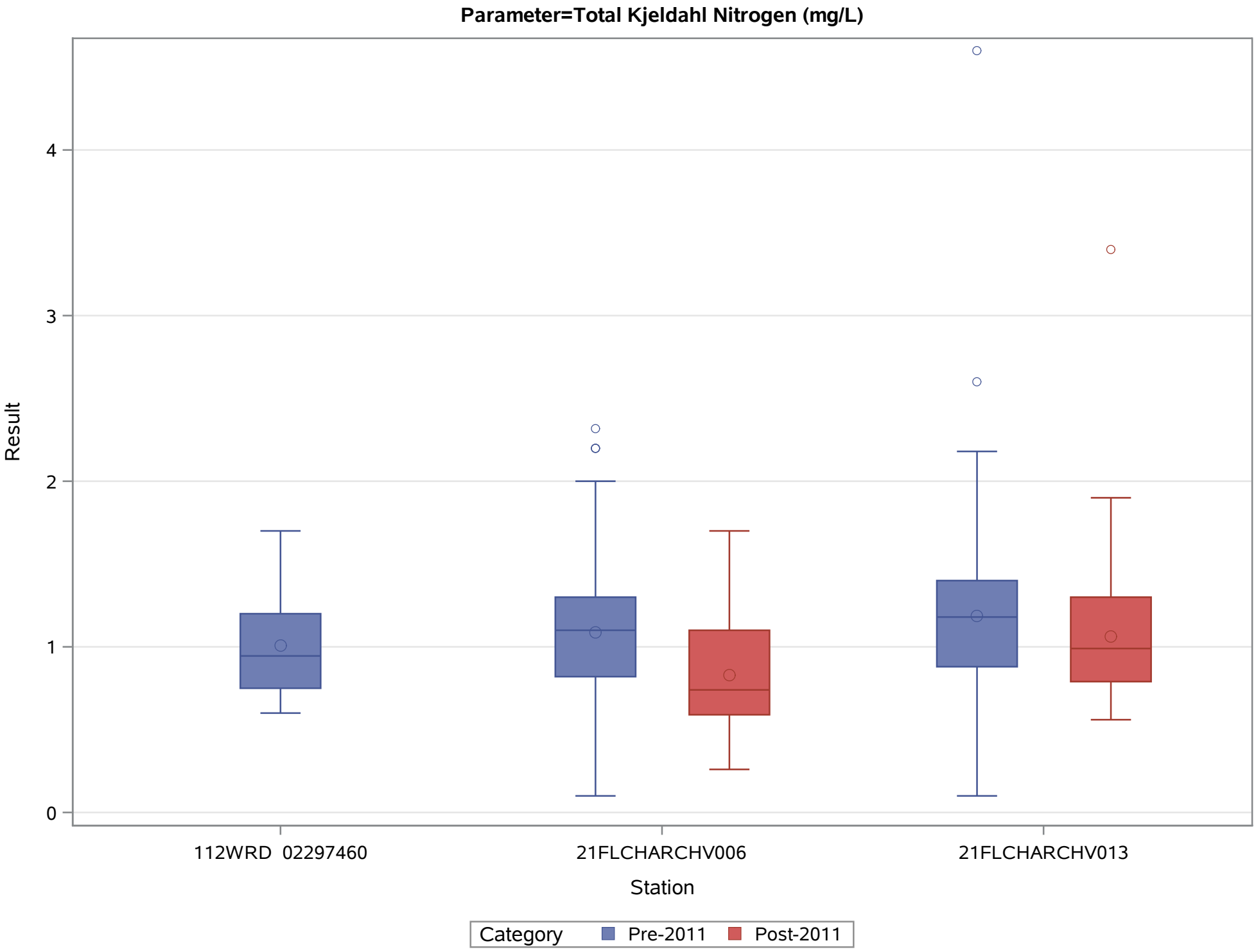

Parameter=Dissolved Oxygen Saturation (%)
Result
150
100
50
0
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
21FLSEAS60SEAS050
21FLSEAS60SEAS130
Station
Category
Pre-2011
Post-2011

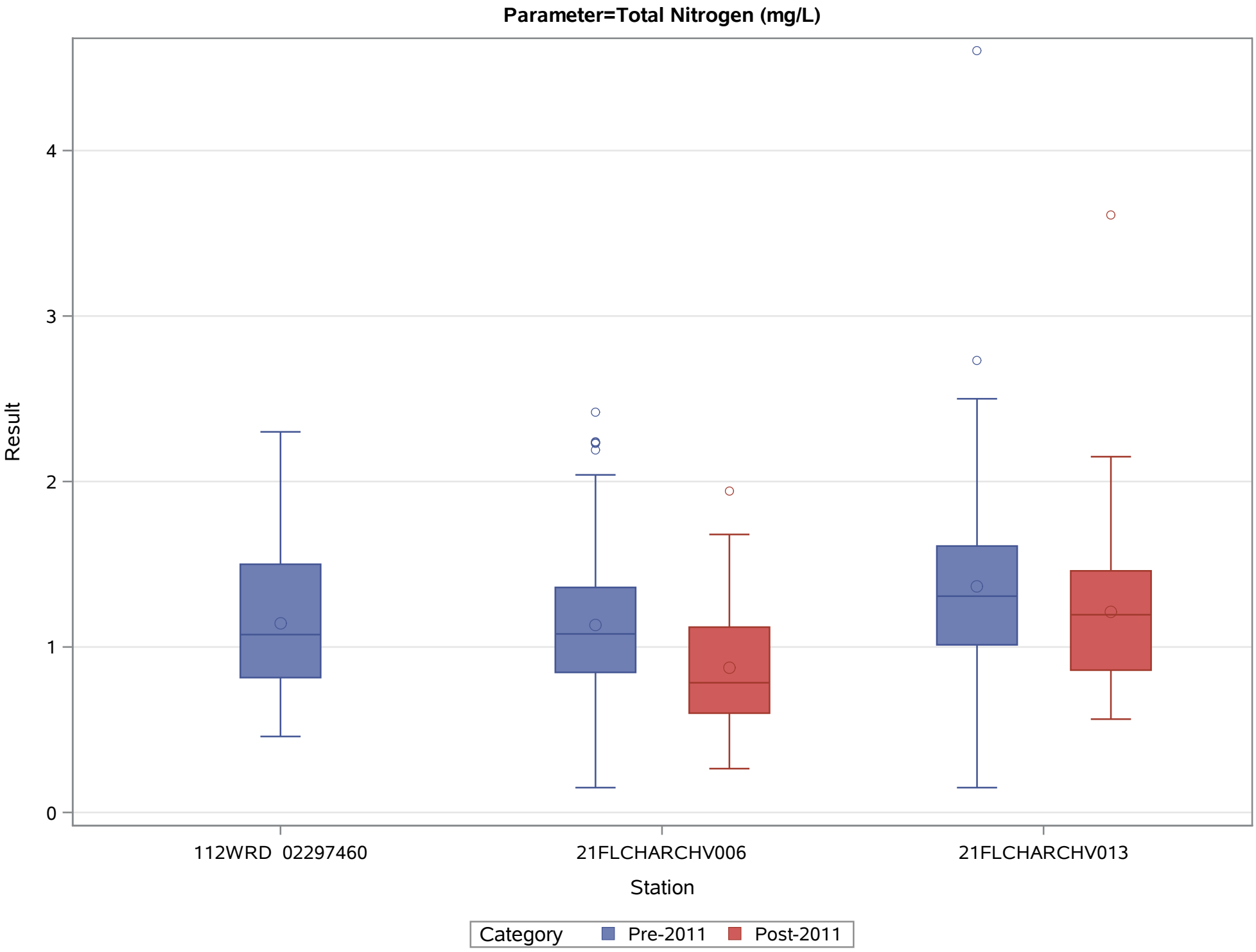

Parameter=Nitrate + Nitrite Nitrogen (mg/L)
Result
0.0
0.2
0.4
0.6
0.8
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
Station
Category
Pre-2011
Post-2011

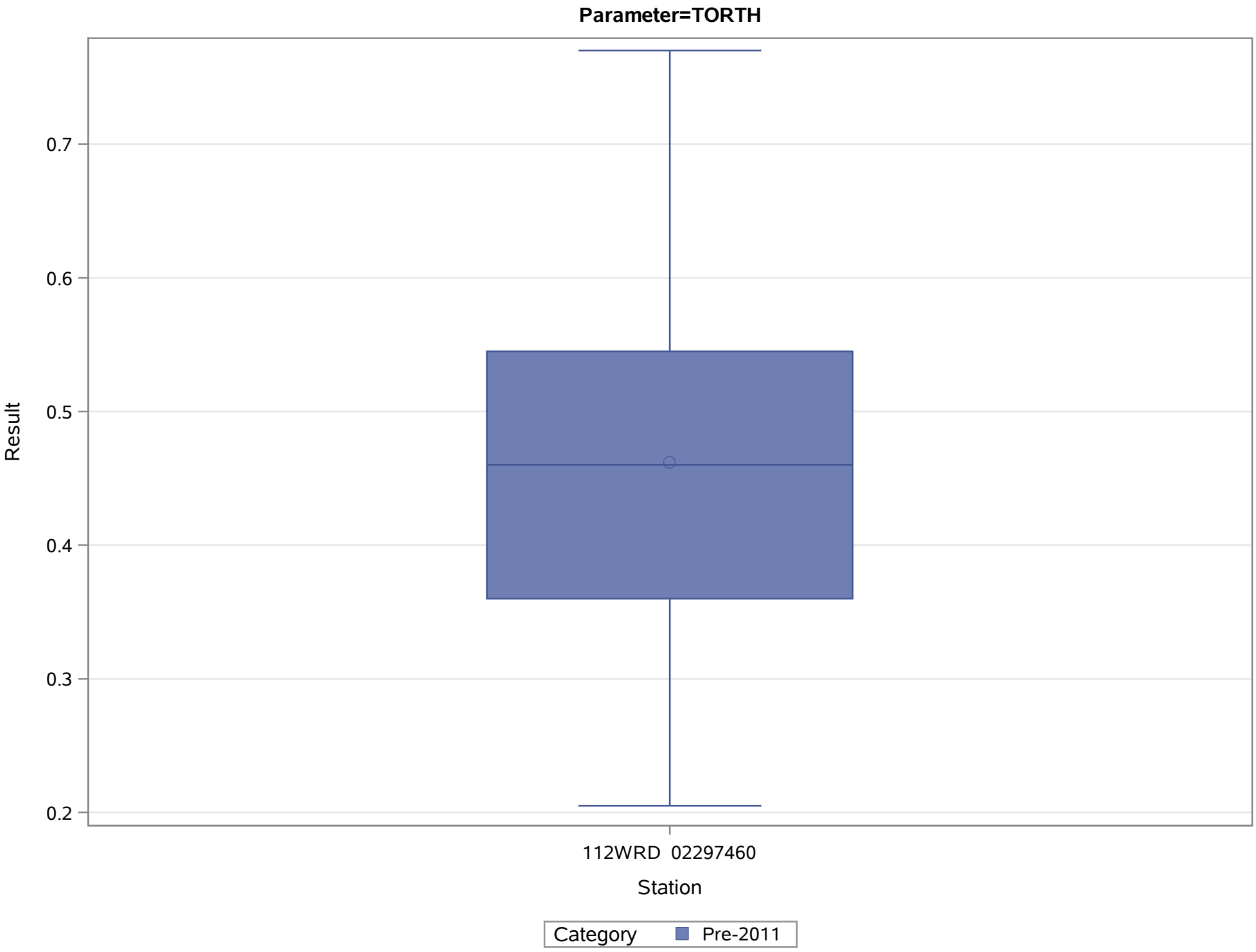

Parameter=pH (std. units)
Result
8
7
6
5
4
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
21FLSEAS60SEAS050
21FLSEAS60SEAS130
Station
Category
Pre-2011
Post-2011

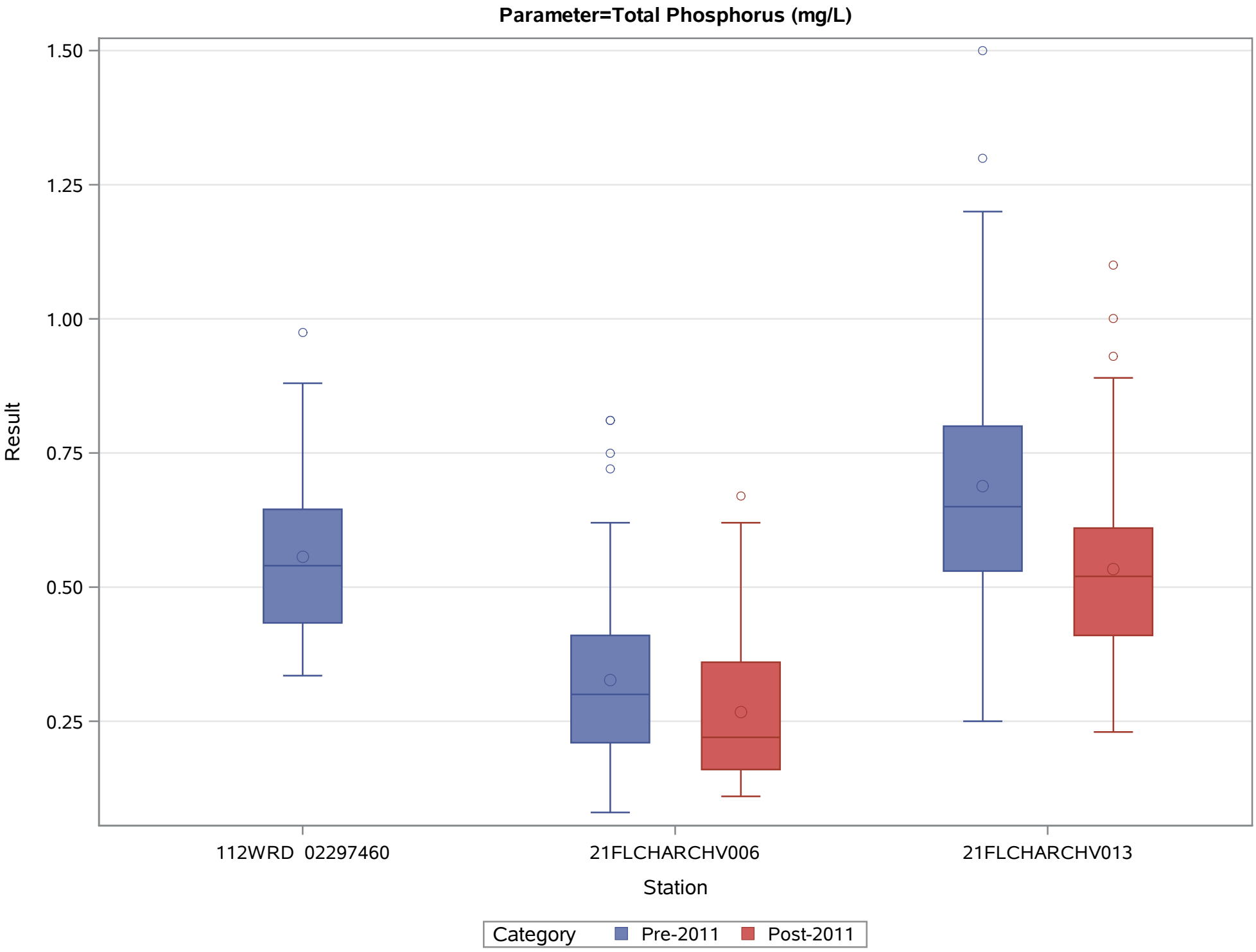

Parameter=Salinity (psu)
Result
40
30
20
10
0
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
21FLSEAS60SEAS050
21FLSEAS60SEAS130
Station
Category
Pre-2011
Post-2011

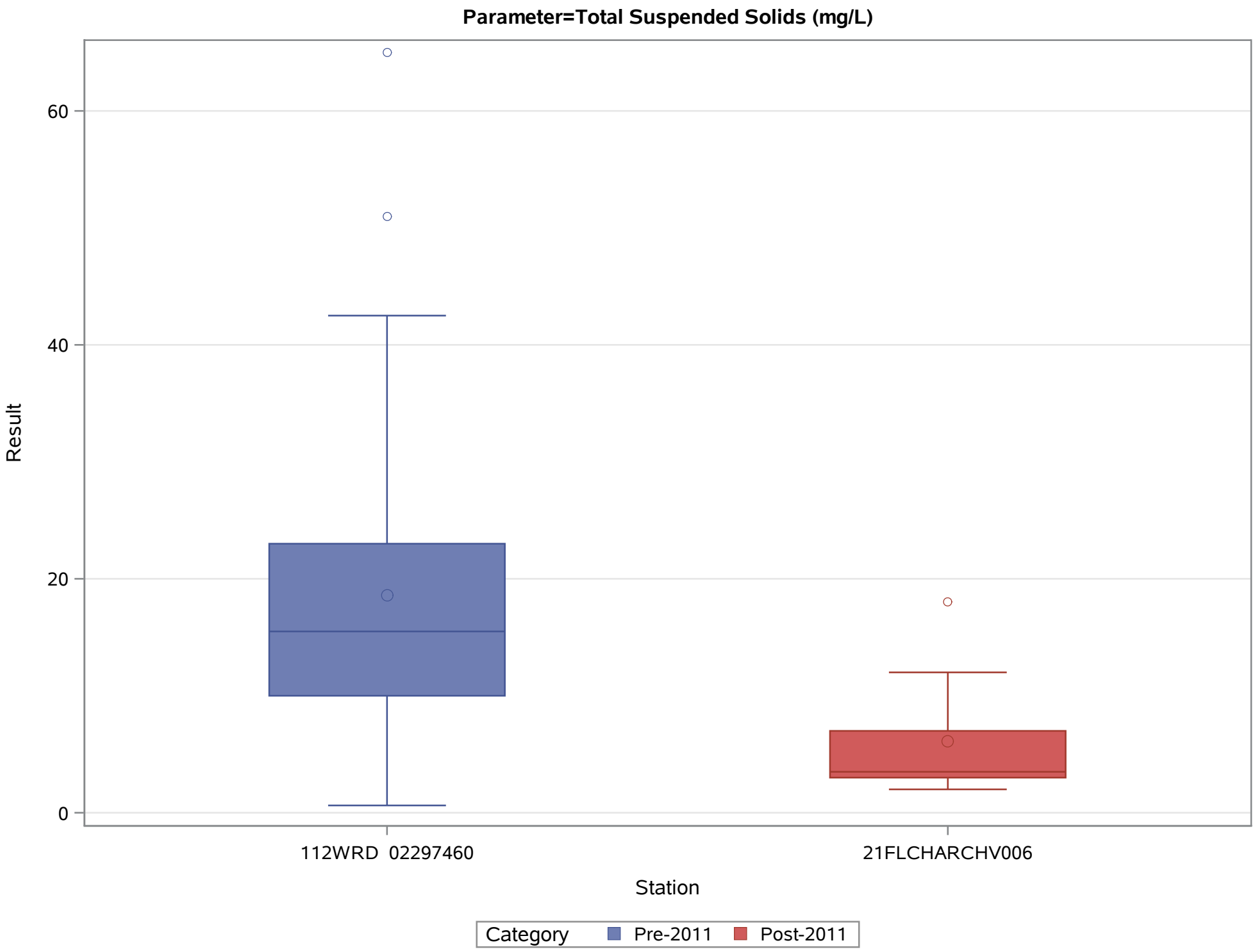

Parameter=Temperature (deg C)
Result
35
30
25
20
15
10
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
21FLSEAS60SEAS050
21FLSEAS60SEAS130
Station
Category
Pre-2011
Post-2011

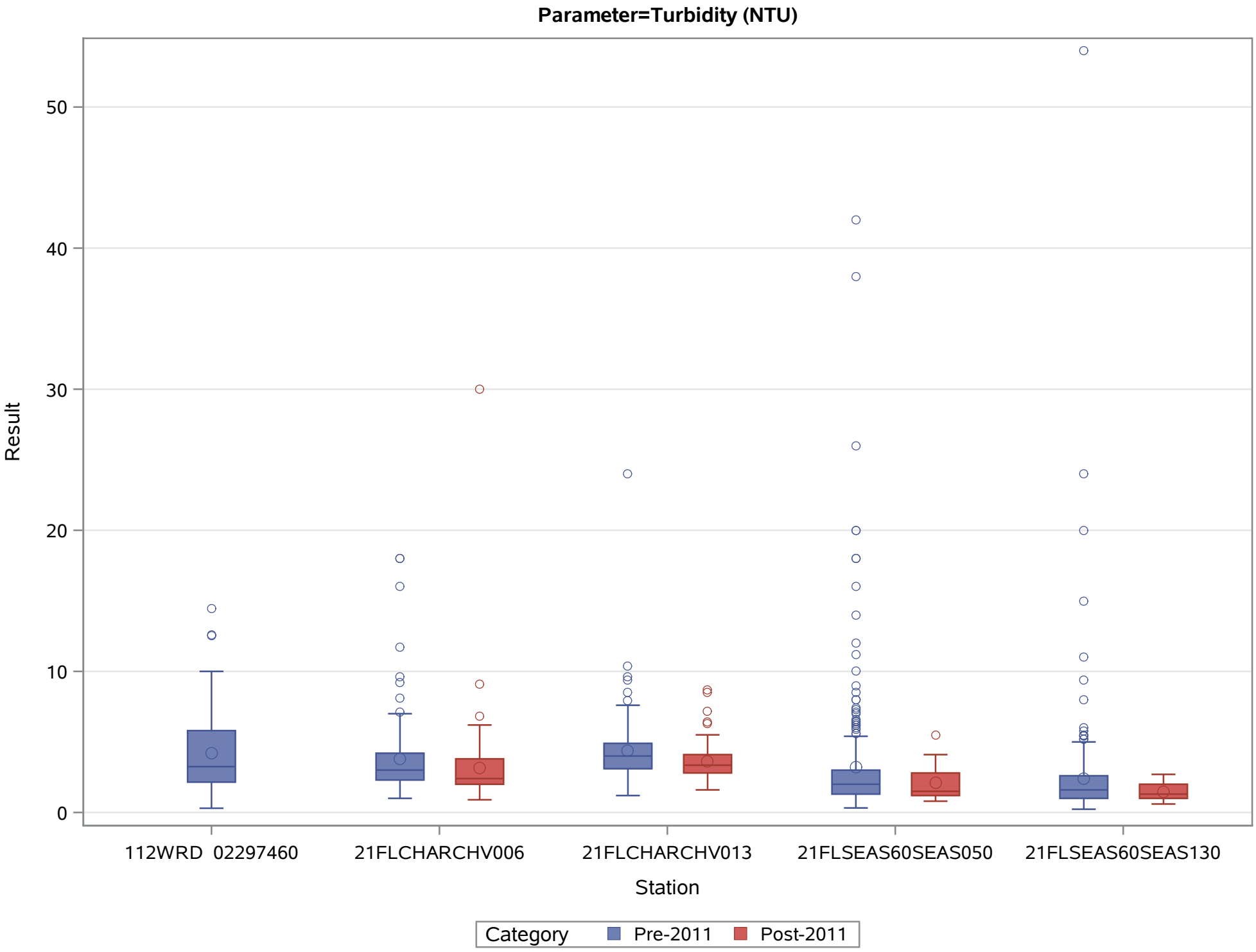

Parameter=Total Kjeldahl Nitrogen (mg/L)
Result
4
3
2
1
0
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
Station
Category
Pre-2011
Post-2011


Parameter=Total Nitrogen (mg/L)
Result
4
3
2
1
0
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
Station
Category
Pre-2011
Post-2011


Parameter=TORTH
0.7
0.6
0.5
0.4
0.3
0.2
Result
112WRD 02297460
Station
Category
Pre-2011

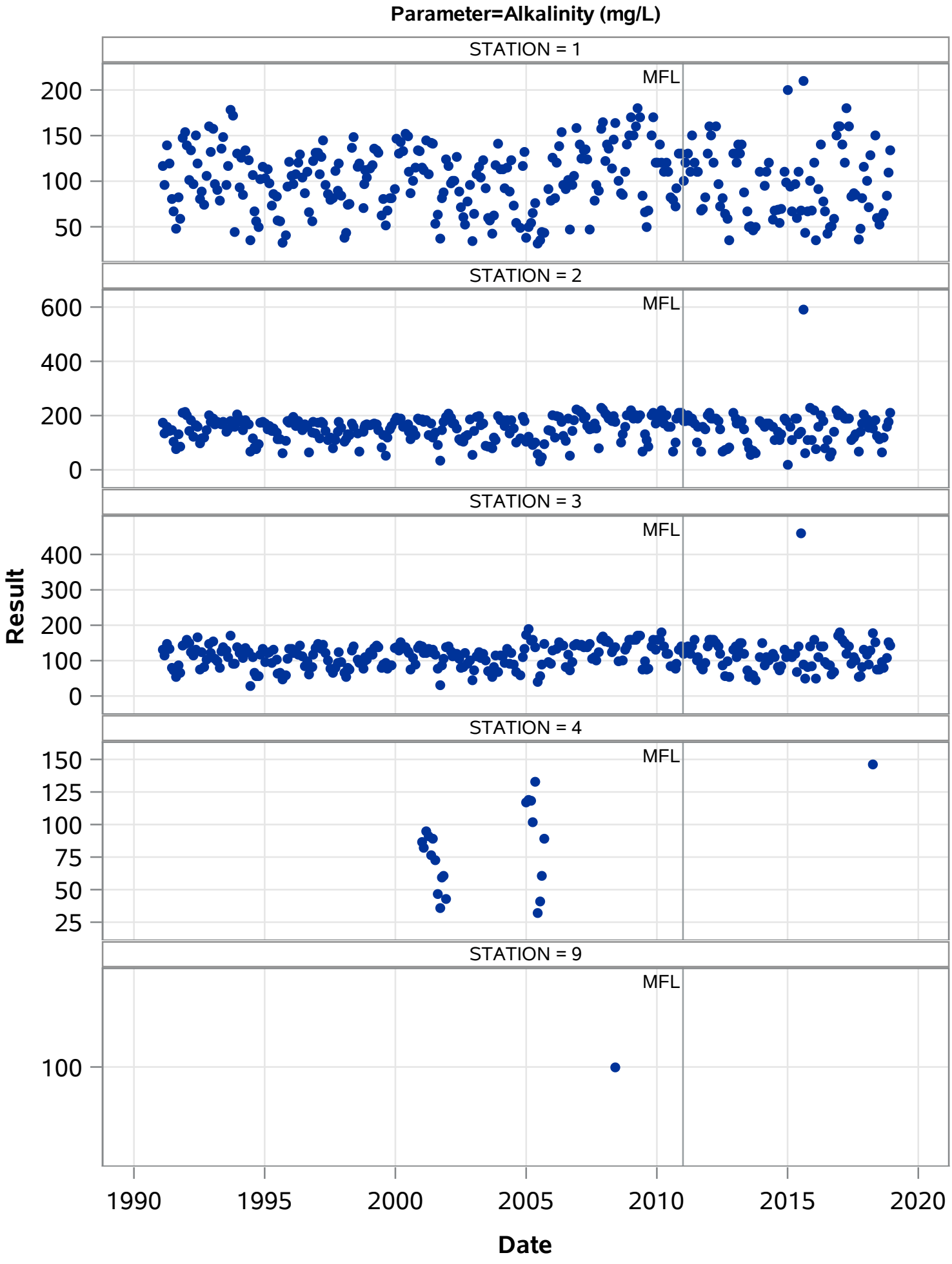

Parameter=Total Phosphorus (mg/L)
1.50
1.25
1.00
0.75
0.50
0.25
Result
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
Station
Category
Pre-2011
Post-2011

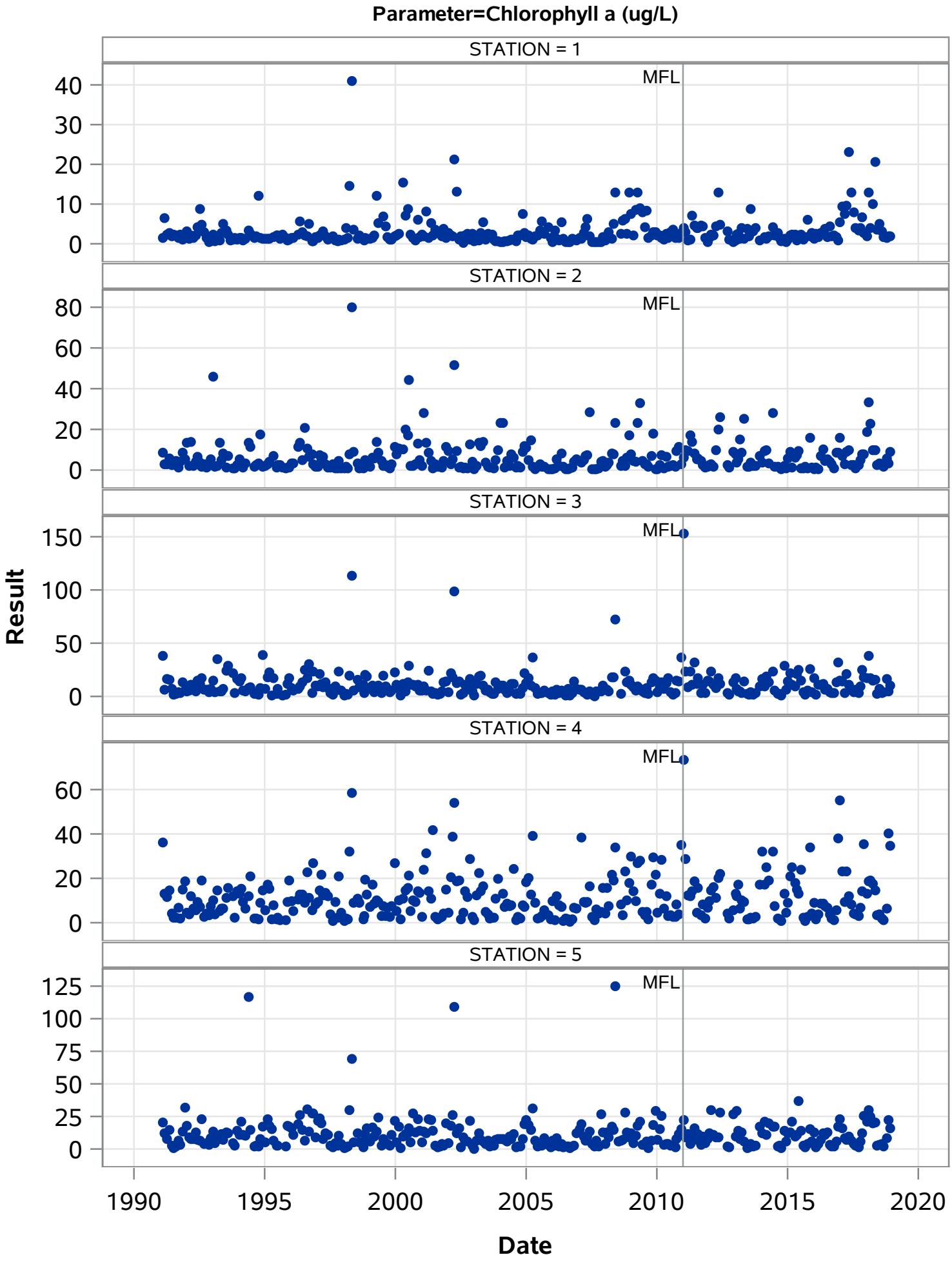

Parameter=Total Suspended Solids (mg/L)
60
40
20
0
Result
112WRD 02297460
21FLCHARCHV006
Station
Category
Pre-2011
Post-2011

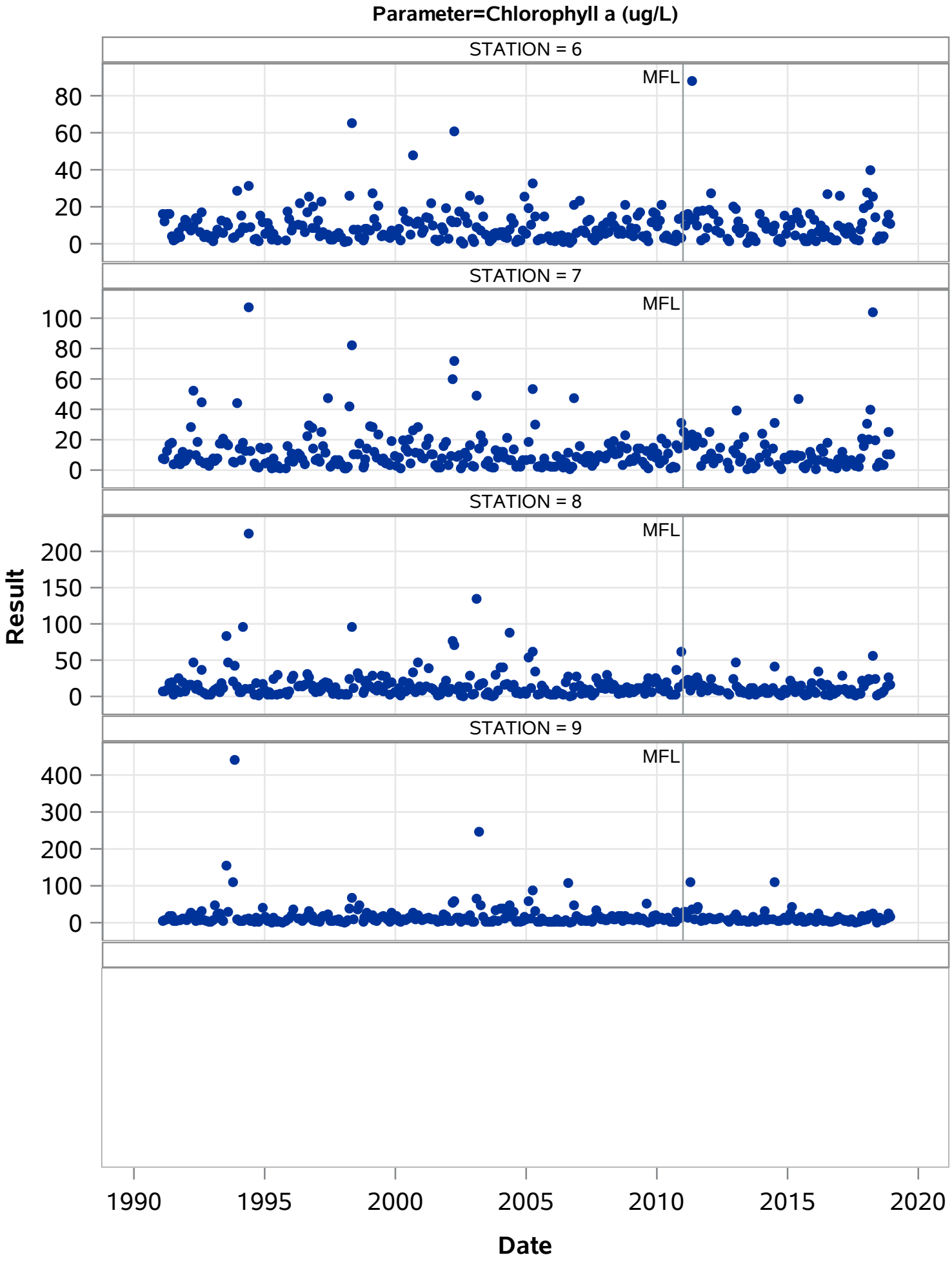

Parameter=Turbidity (NTU)
Result
50
40
30
20
10
0
112WRD 02297460
21FLCHARCHV006
21FLCHARCHV013
21FLSEAS60SEAS050
21FLSEAS60SEAS130
Station
Category
Pre-2011
Post-2011

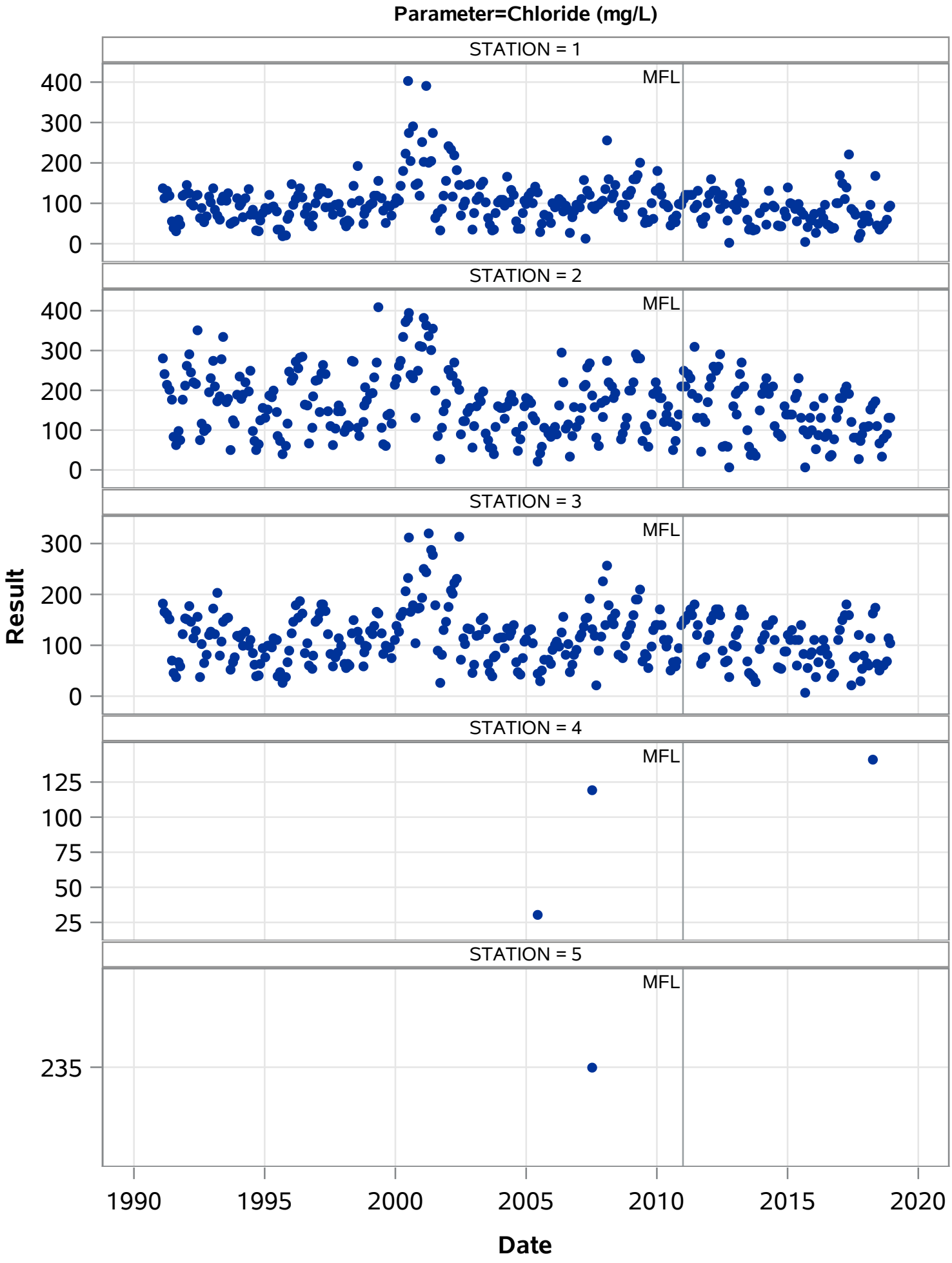
APPENDIX I

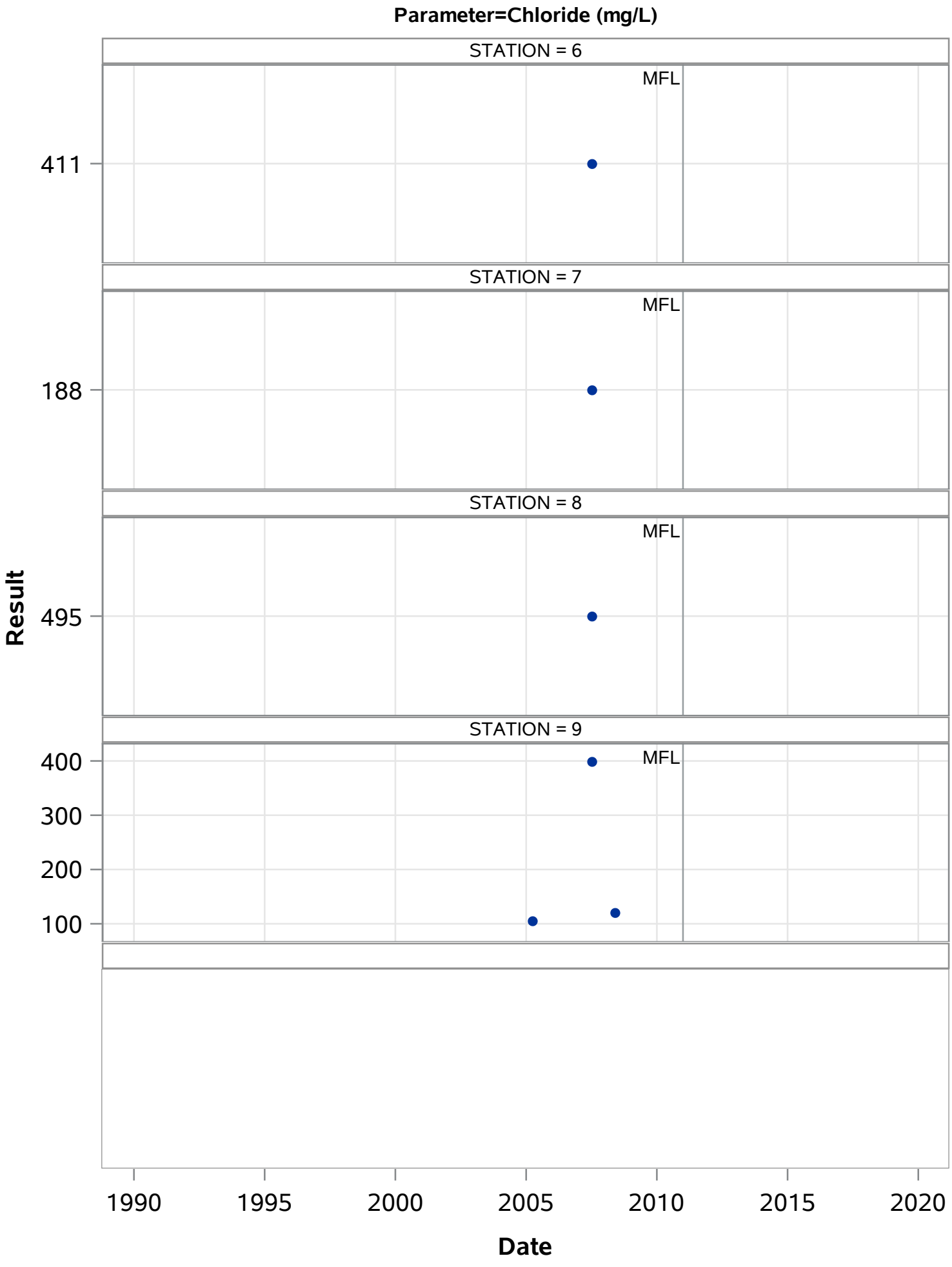
Shell Creek Water Quality Time Series and Box and Whisker Plots

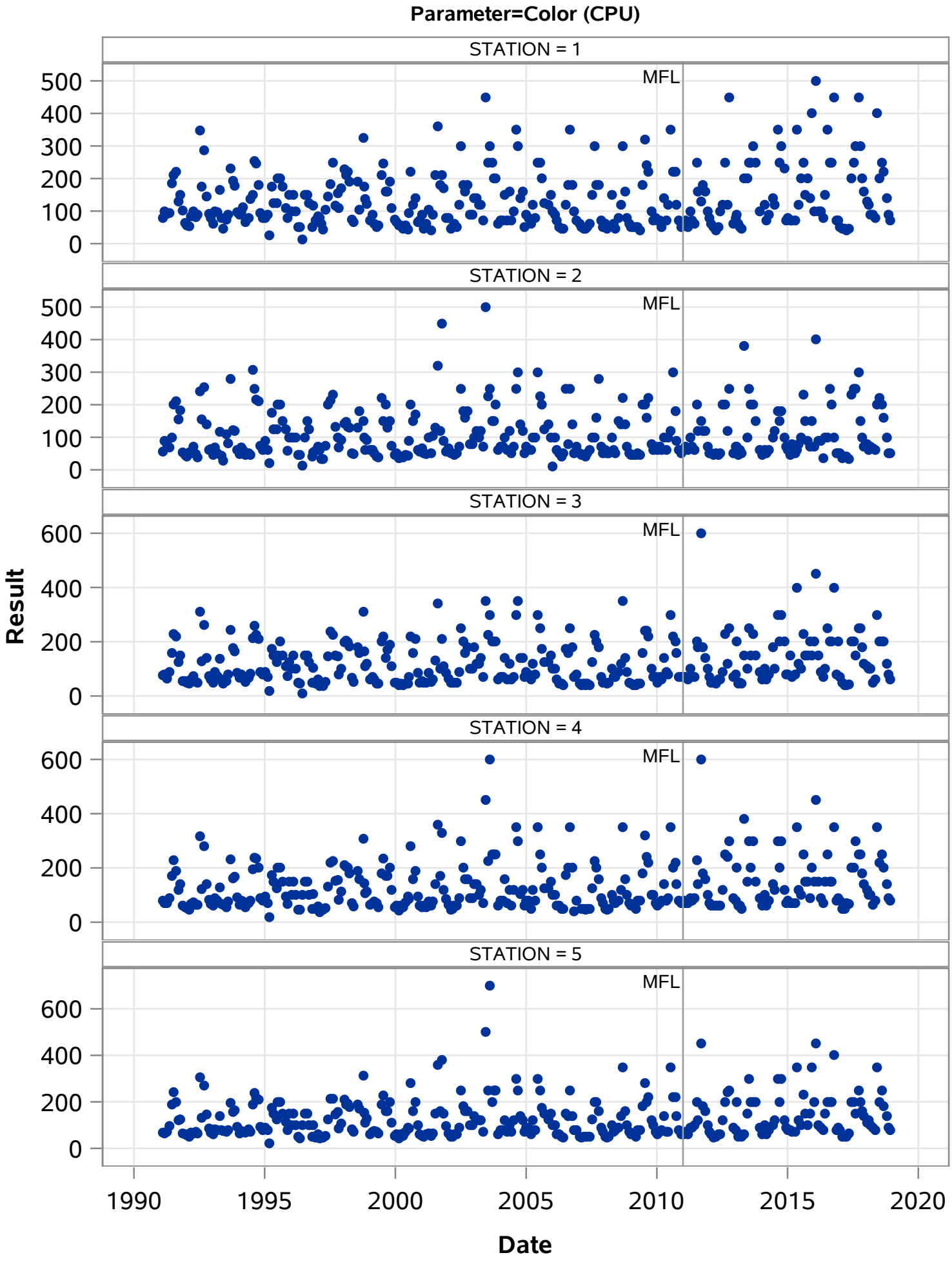

Parameter=Alkalinity (mg/L)
STATION = 1
MFL
200
150
100
50
STATION = 2
MFL
600
400
200
0
STATION = 3
MFL
400
300
200
100
0
STATION = 4
MFL
150
125
100
75
50
25
STATION = 9
MFL
100
Result
1990
1995
2000
2005
2010
2015
2020
Date

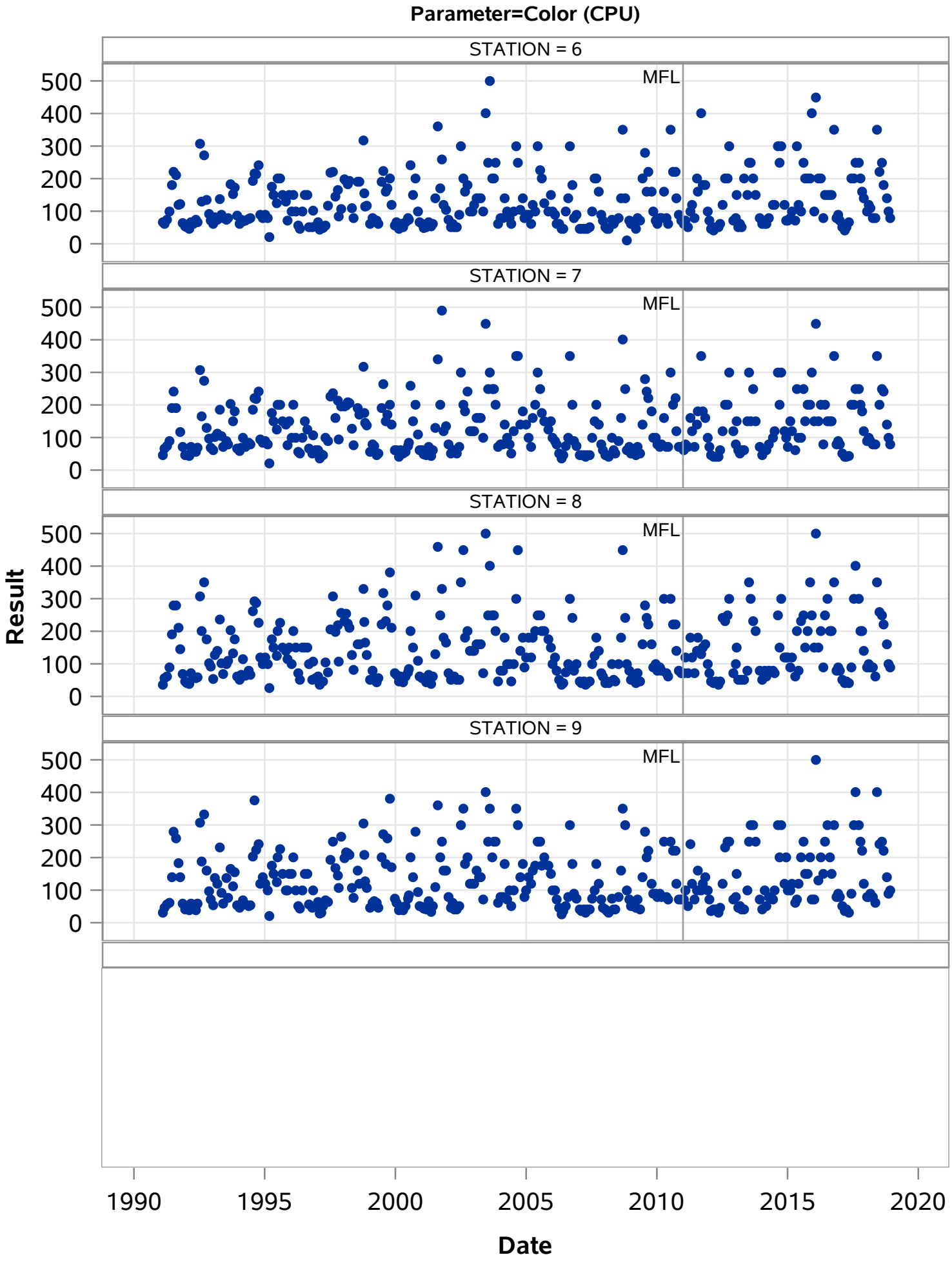

Parameter=Chlorophyll a (ug/L)
STATION = 1
MFL
40
30
20
10
0
STATION = 2
MFL
80
60
40
20
0
STATION = 3
MFL
150
100
50
0
STATION = 4
MFL
60
40
20
0
STATION = 5
MFL
125
100
75
50
25
0
Result
1990
1995
2000
2005
2010
2015
2020
Date

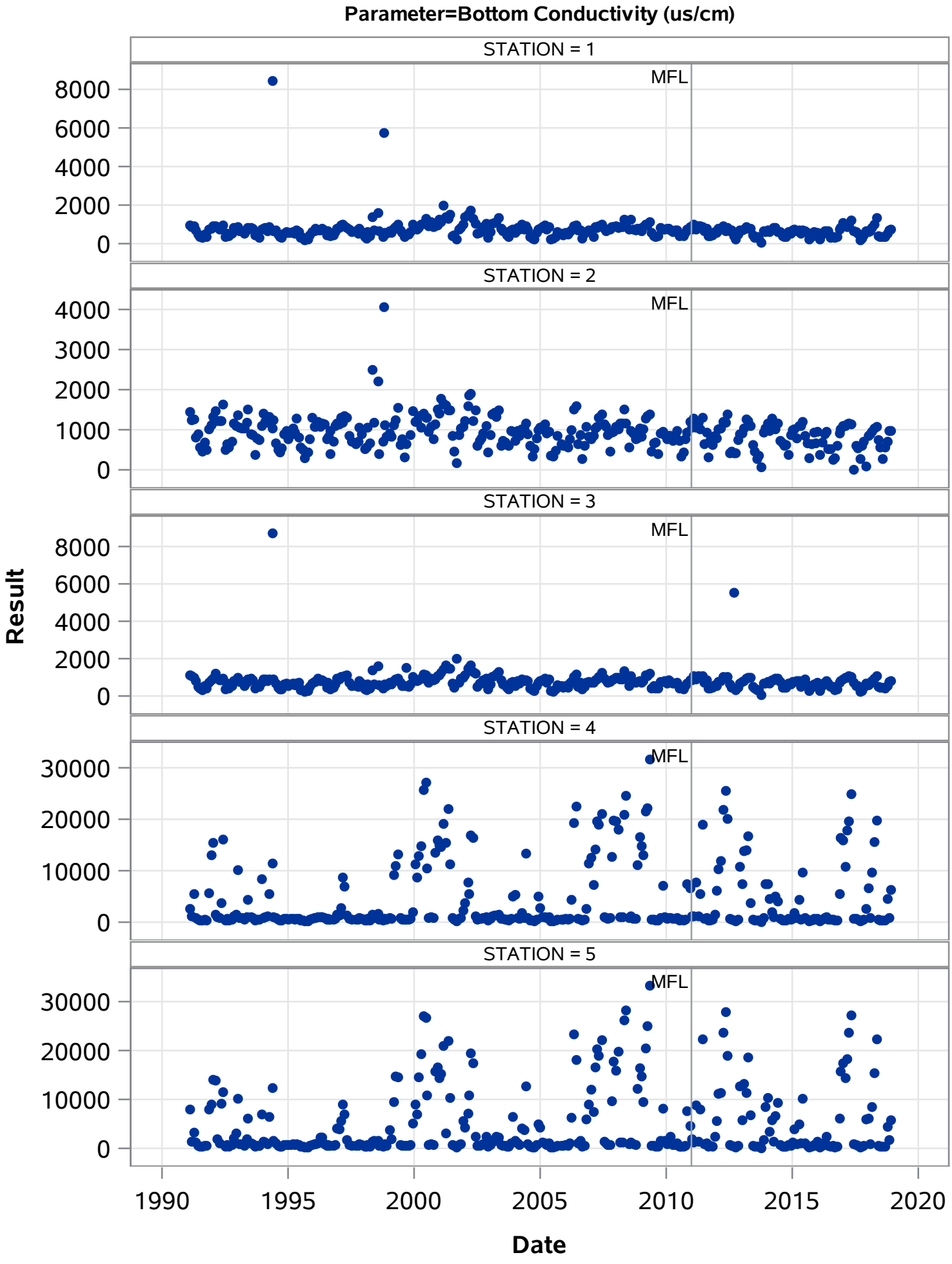

Parameter=Chlorophyll a (ug/L)
STATION = 6
MFL
80
60
40
20
0
STATION = 7
MFL
100
80
60
40
20
0
STATION = 8
MFL
200
150
100
50
0
STATION = 9
MFL
400
300
200
100
0
Result
1990
1995
2000
2005
2010
2015
2020
Date

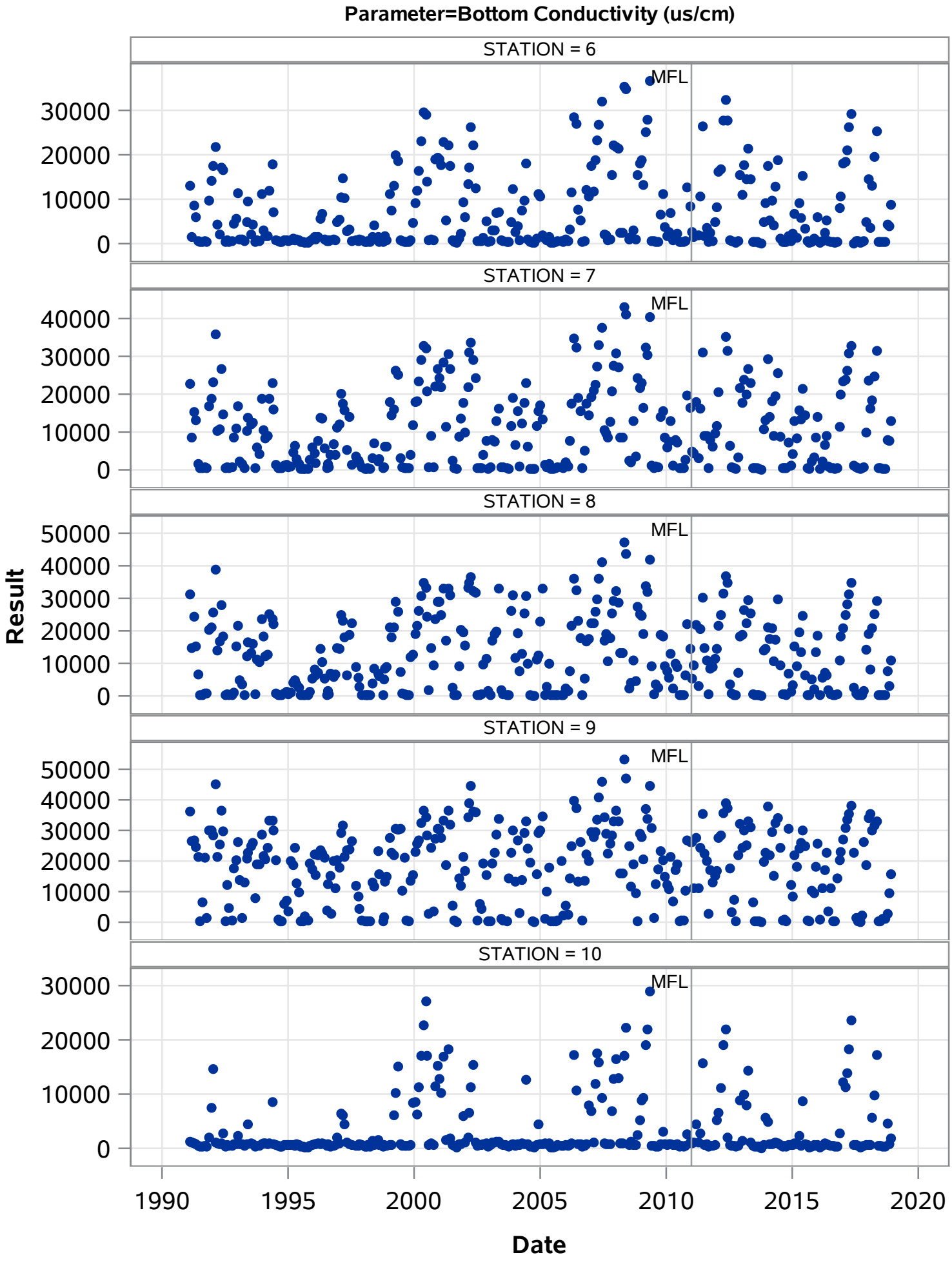

Parameter=Chloride (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
400
300
200
100
0
125
100
75
50
25
235
1990
1995
2000
2005
2010
2015
2020
Date

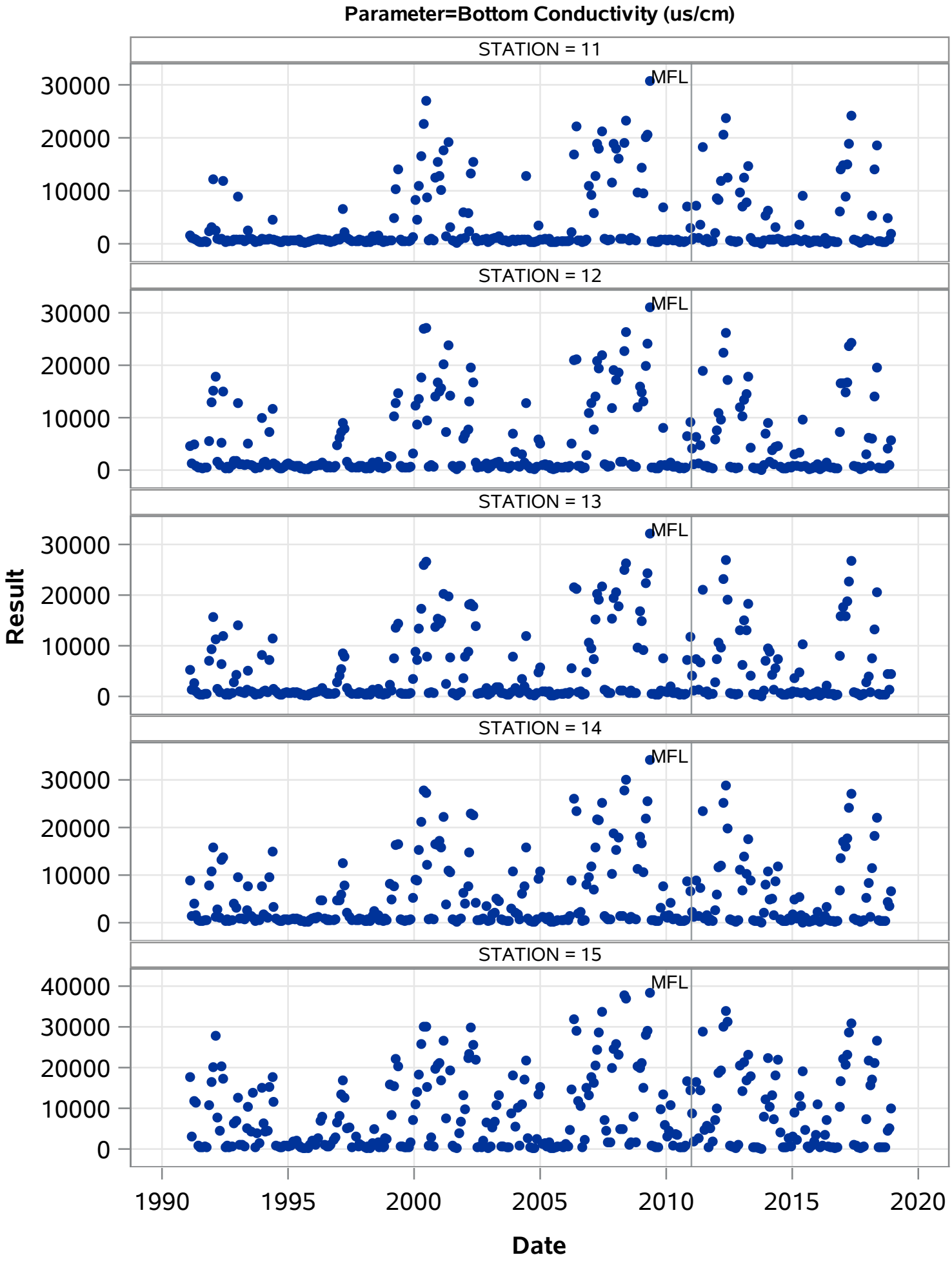

Parameter=Chloride (mg/L)
STATION = 6
MFL
411
STATION = 7
MFL
188
STATION = 8
MFL
495
STATION = 9
MFL
400
300
200
100
Result
1990
1995
2000
2005
2010
2015
2020
Date

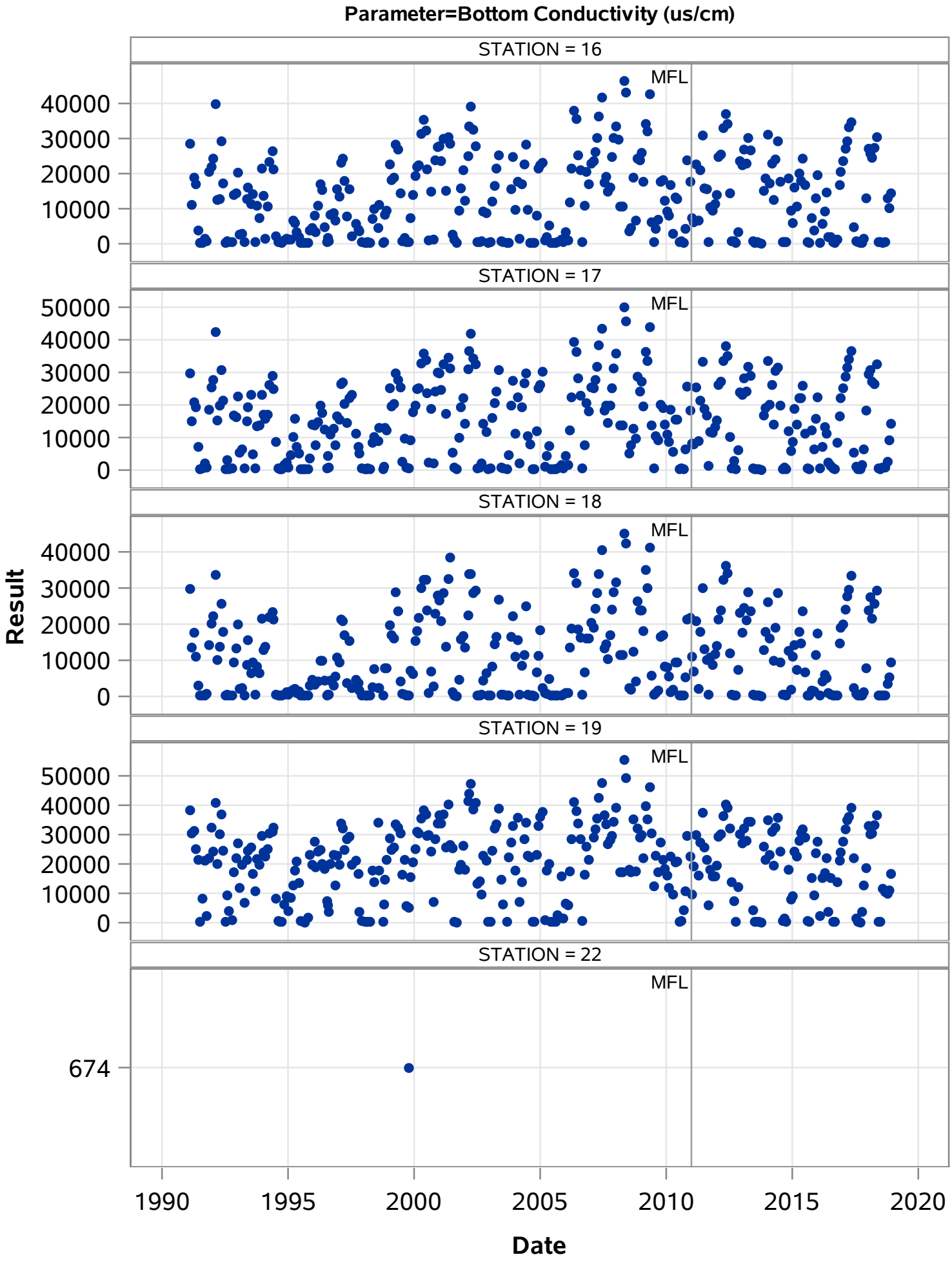

Parameter=Color (CPU)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
0
100
200
300
400
500
600
1990
1995
2000
2005
2010
2015
2020

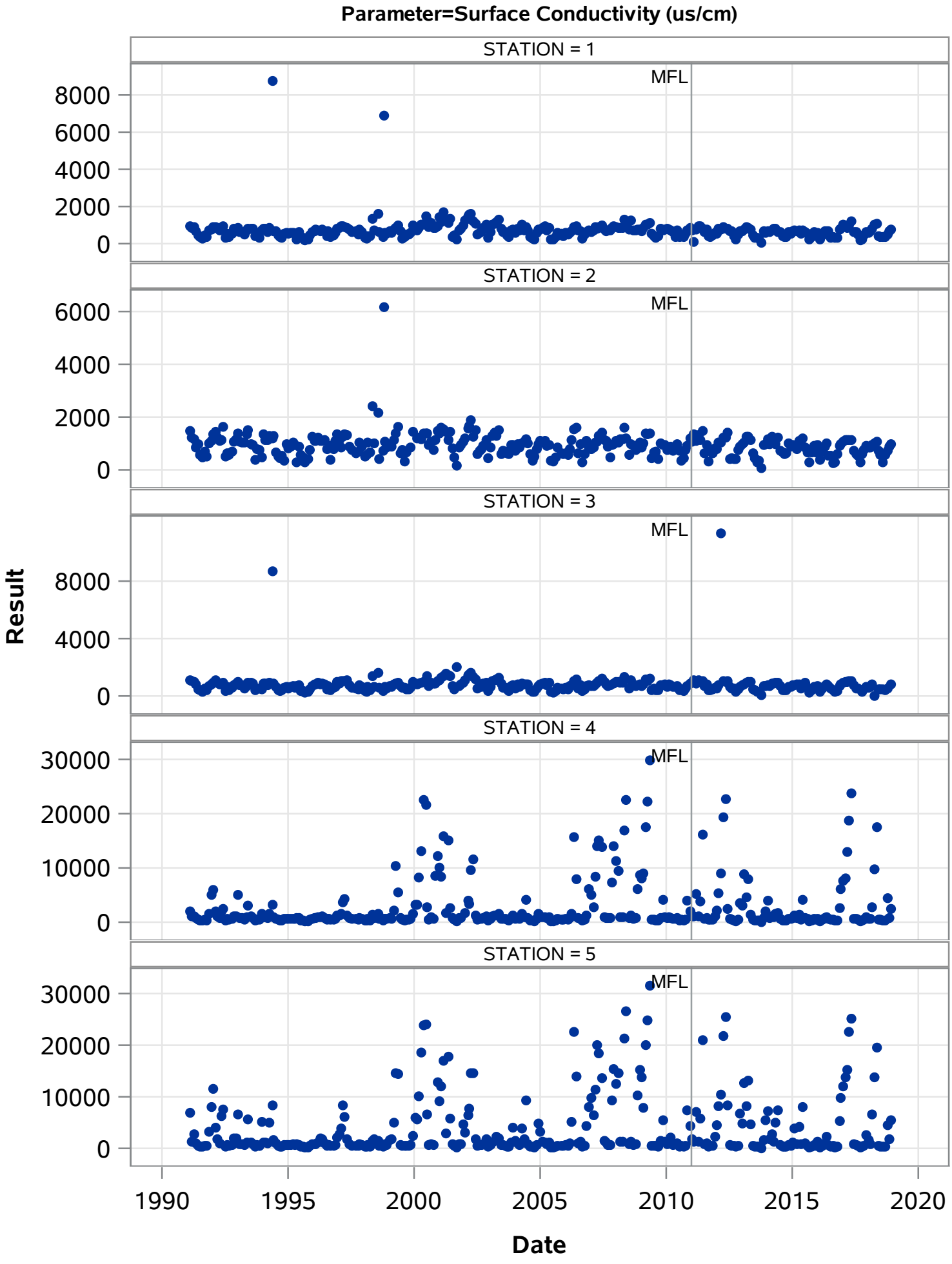

Parameter=Color (CPU)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
0
100
200
300
400
500
1990
1995
2000
2005
2010
2015
2020
Date

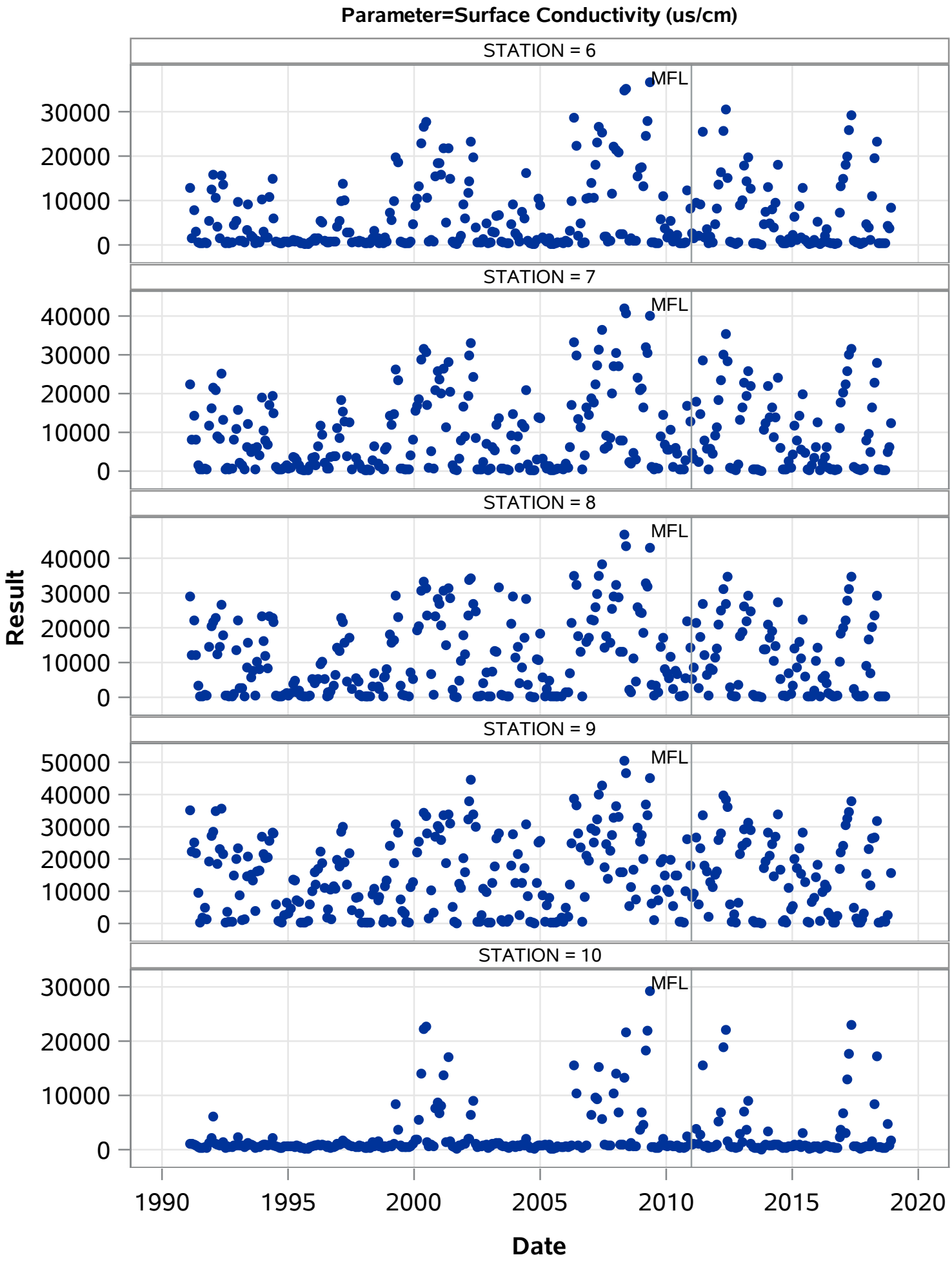

Parameter=Bottom Conductivity (us/cm)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

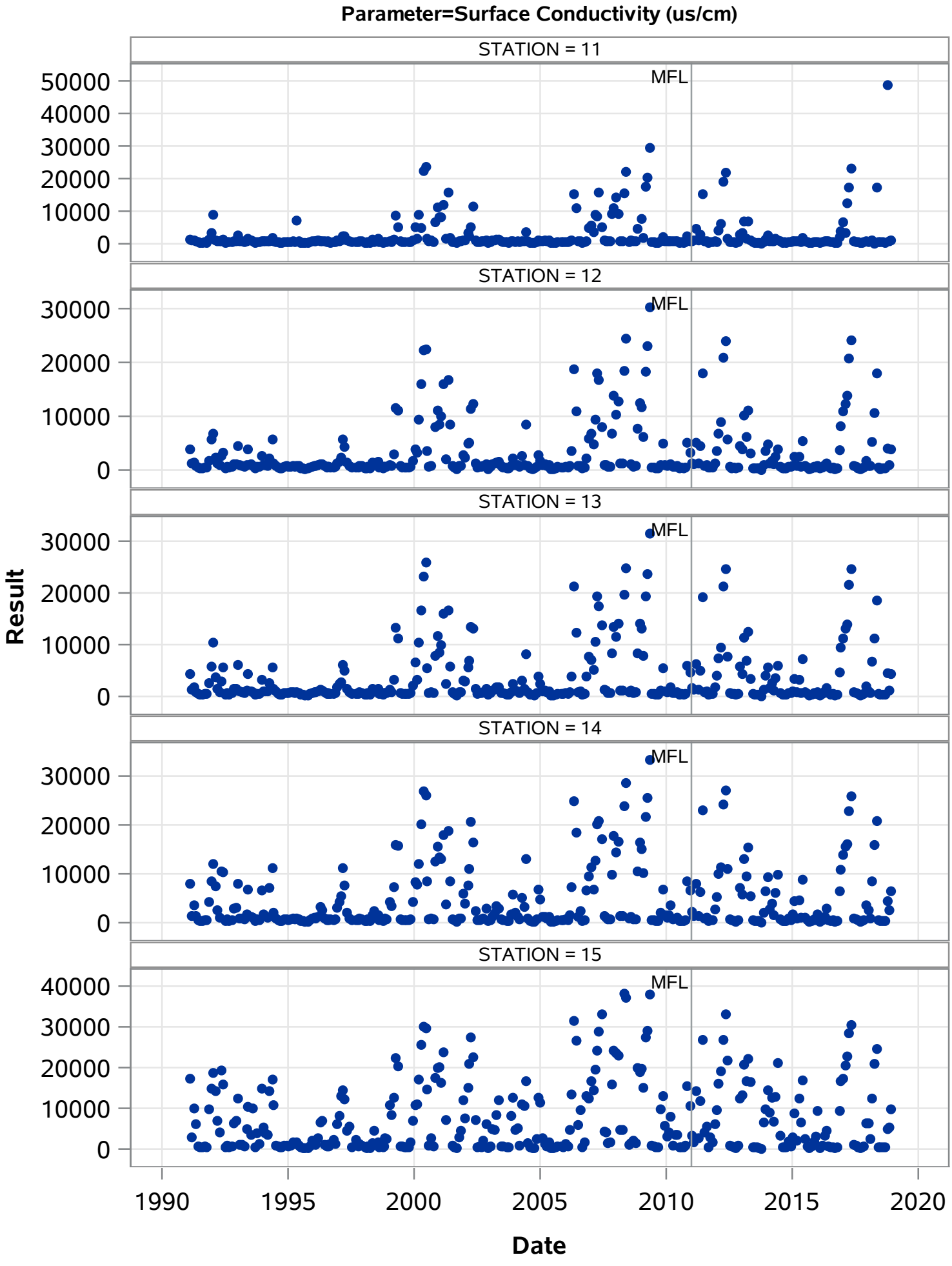

Parameter=Bottom Conductivity (us/cm)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
0
10000
20000
30000
40000
50000
1990
1995
2000
2005
2010
2015
2020

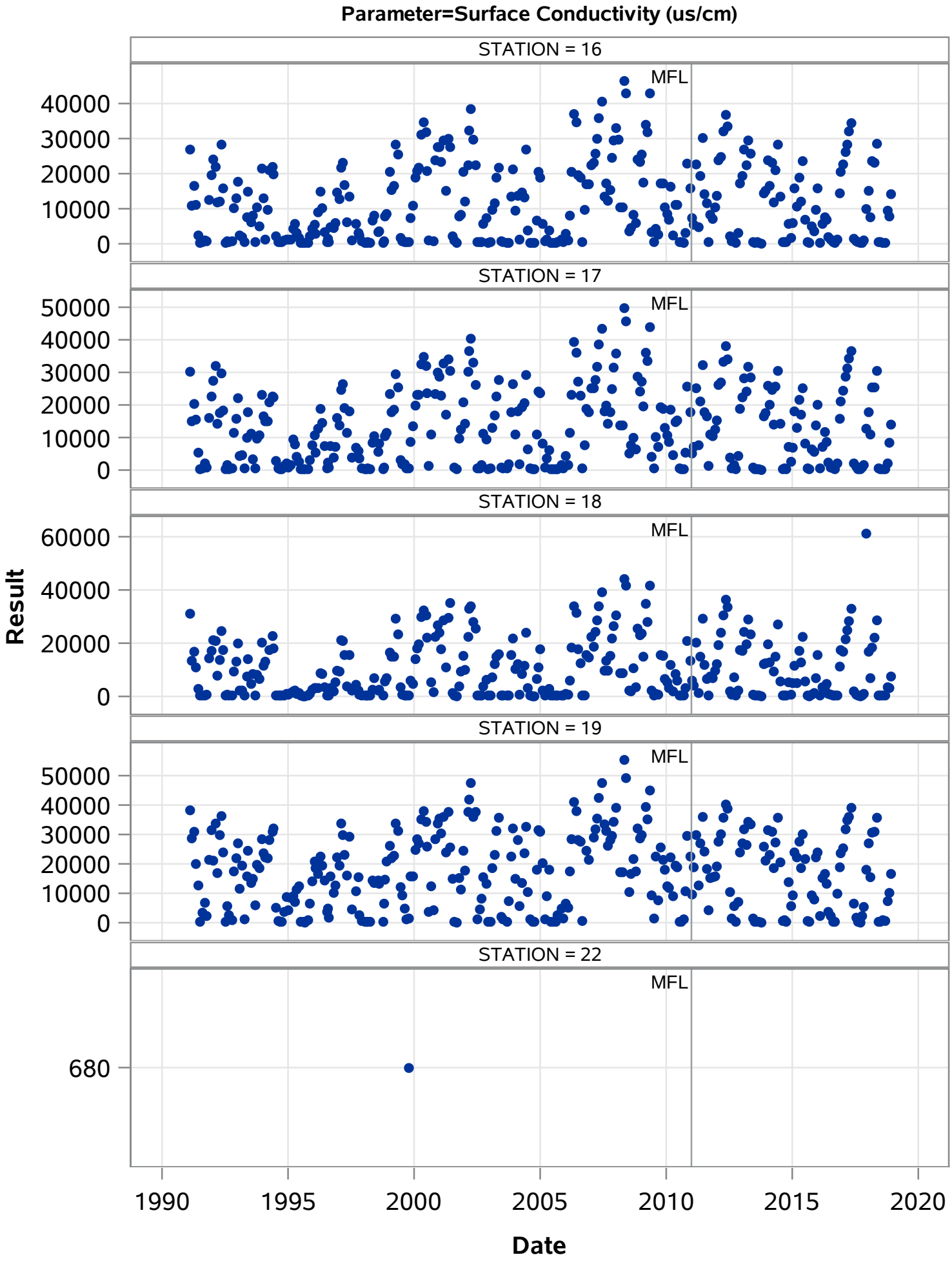

Parameter=Bottom Conductivity (us/cm)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
0
10000
20000
30000
40000
1990
1995
2000
2005
2010
2015
2020

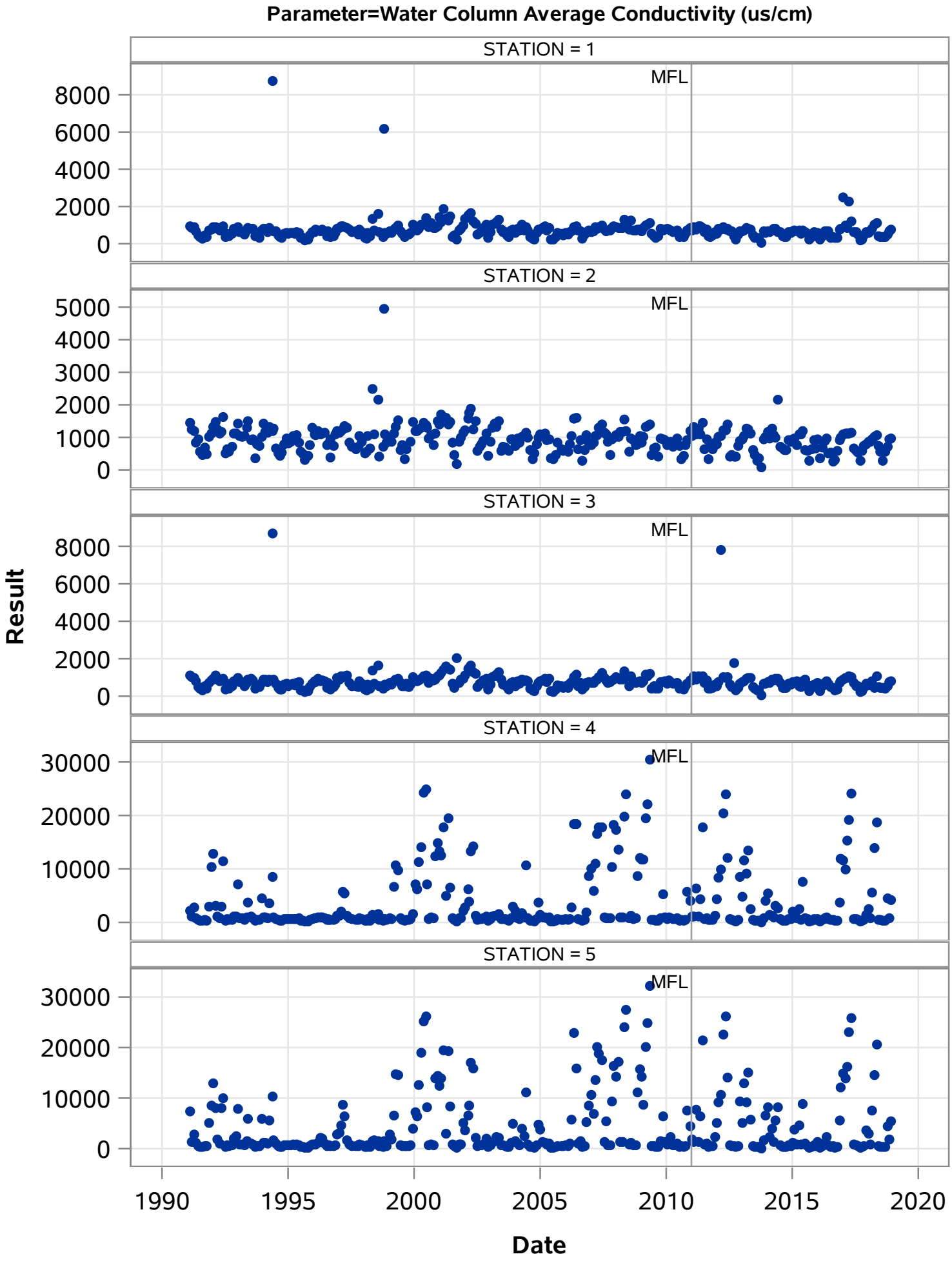

Parameter=Bottom Conductivity (us/cm)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
40000
30000
20000
10000
0
50000
674
1990
1995
2000
2005
2010
2015
2020
Date

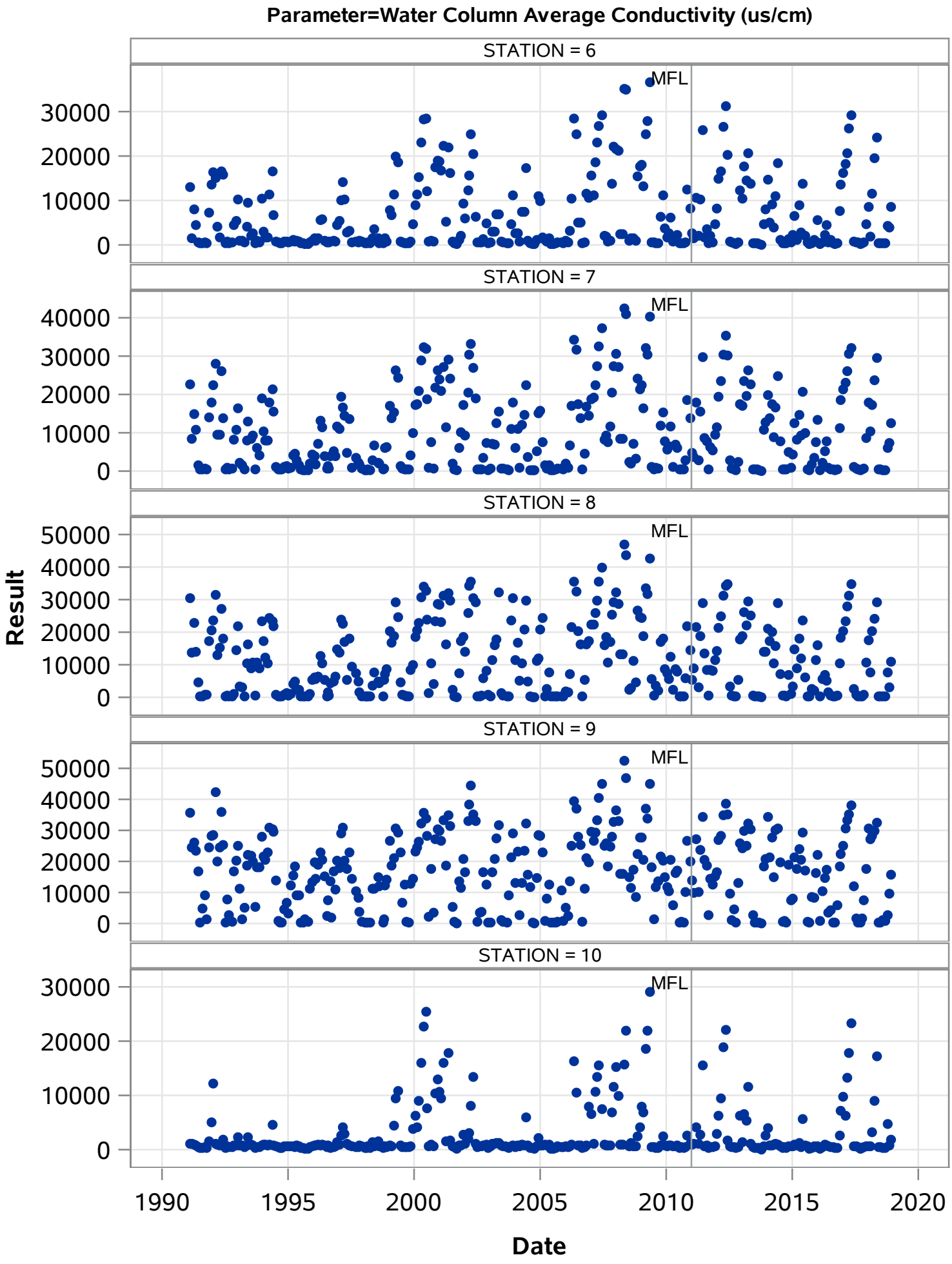

Parameter=Surface Conductivity (us/cm)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
0
2000
4000
6000
8000
10000
20000
30000
1990
1995
2000
2005
2010
2015
2020

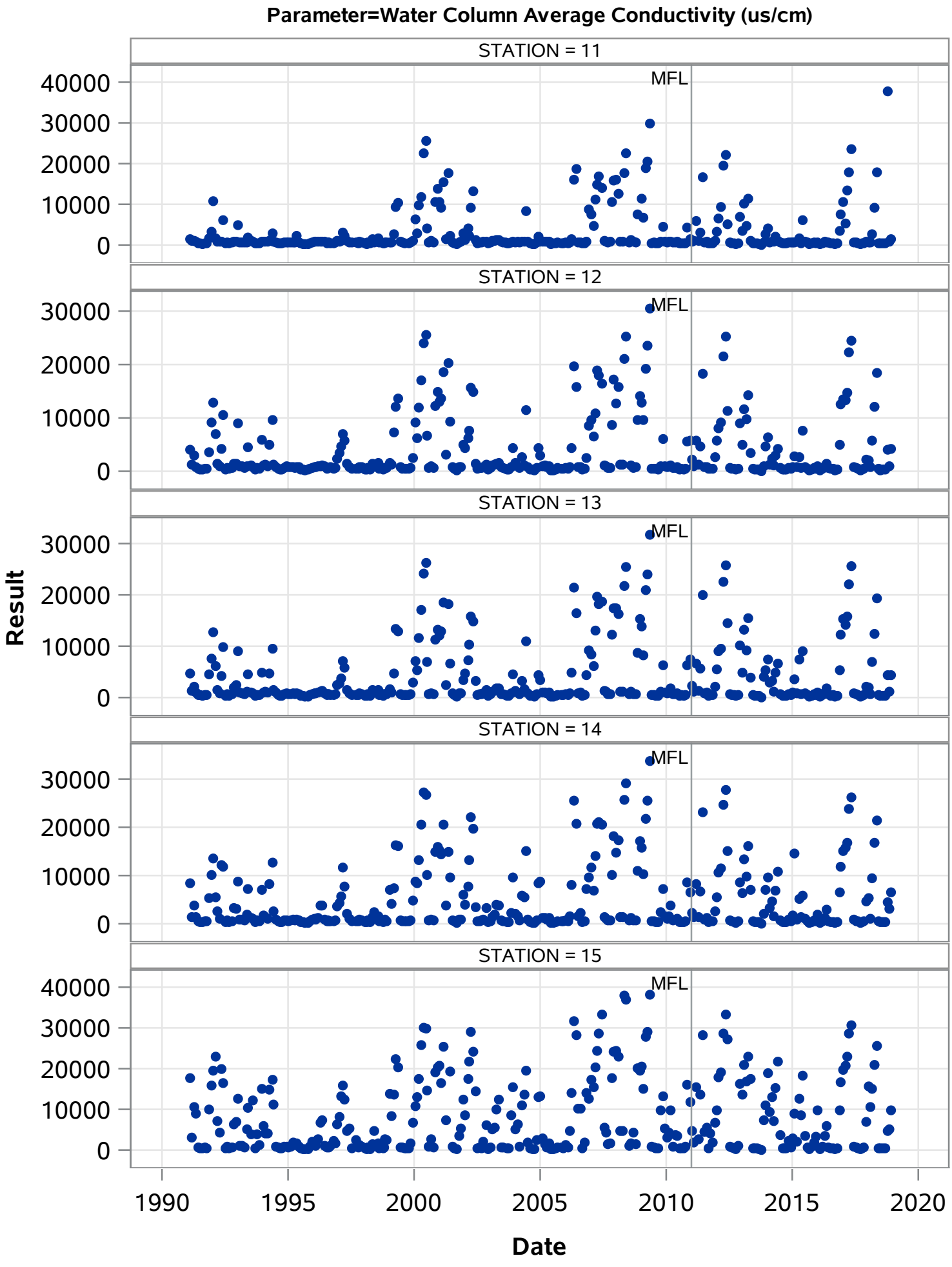

Parameter=Surface Conductivity (us/cm)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
0
10000
20000
30000
40000
50000
1990
1995
2000
2005
2010
2015
2020

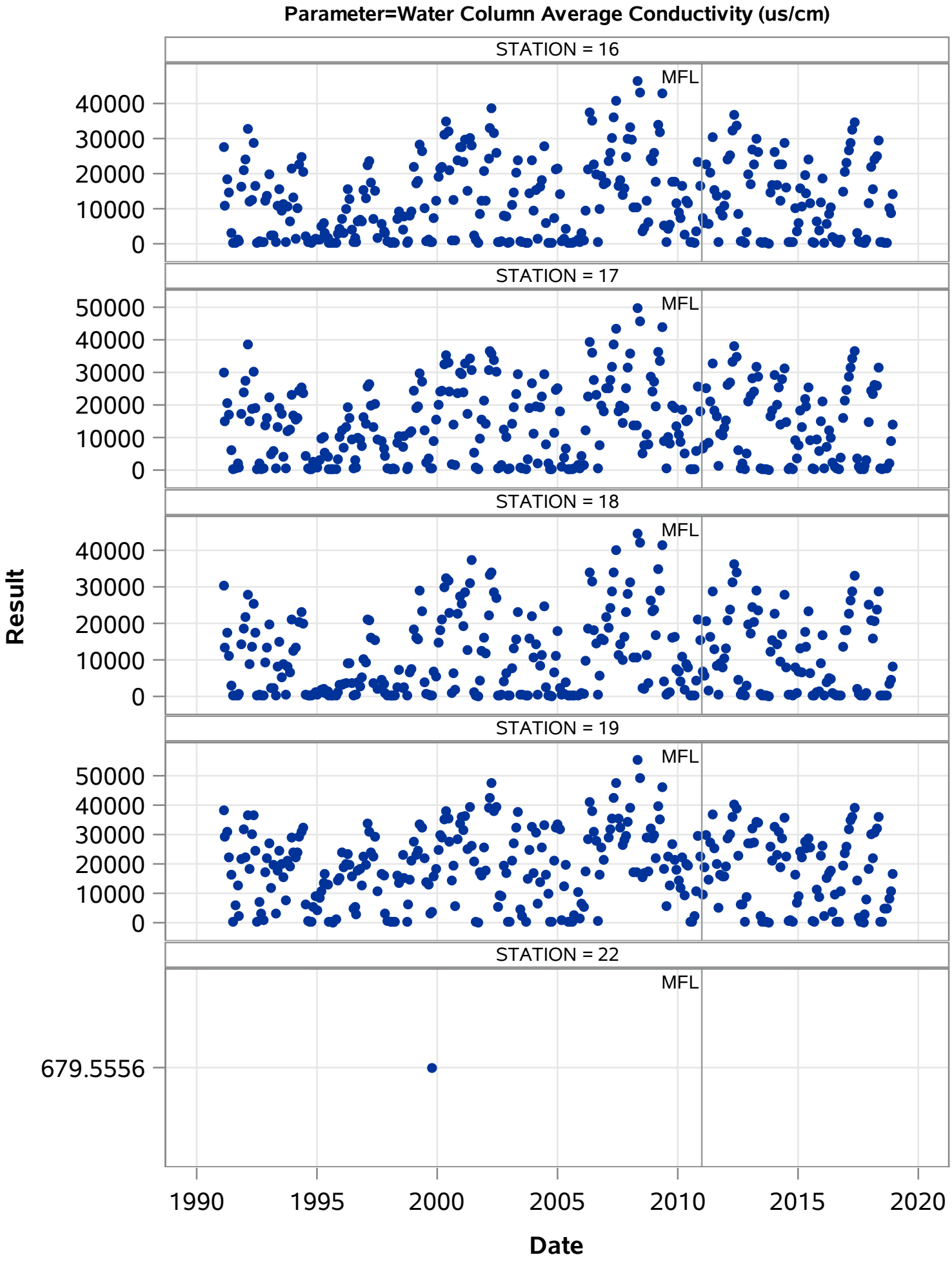

Parameter=Surface Conductivity (us/cm)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
50000
40000
30000
20000
10000
0
1990
1995
2000
2005
2010
2015
2020

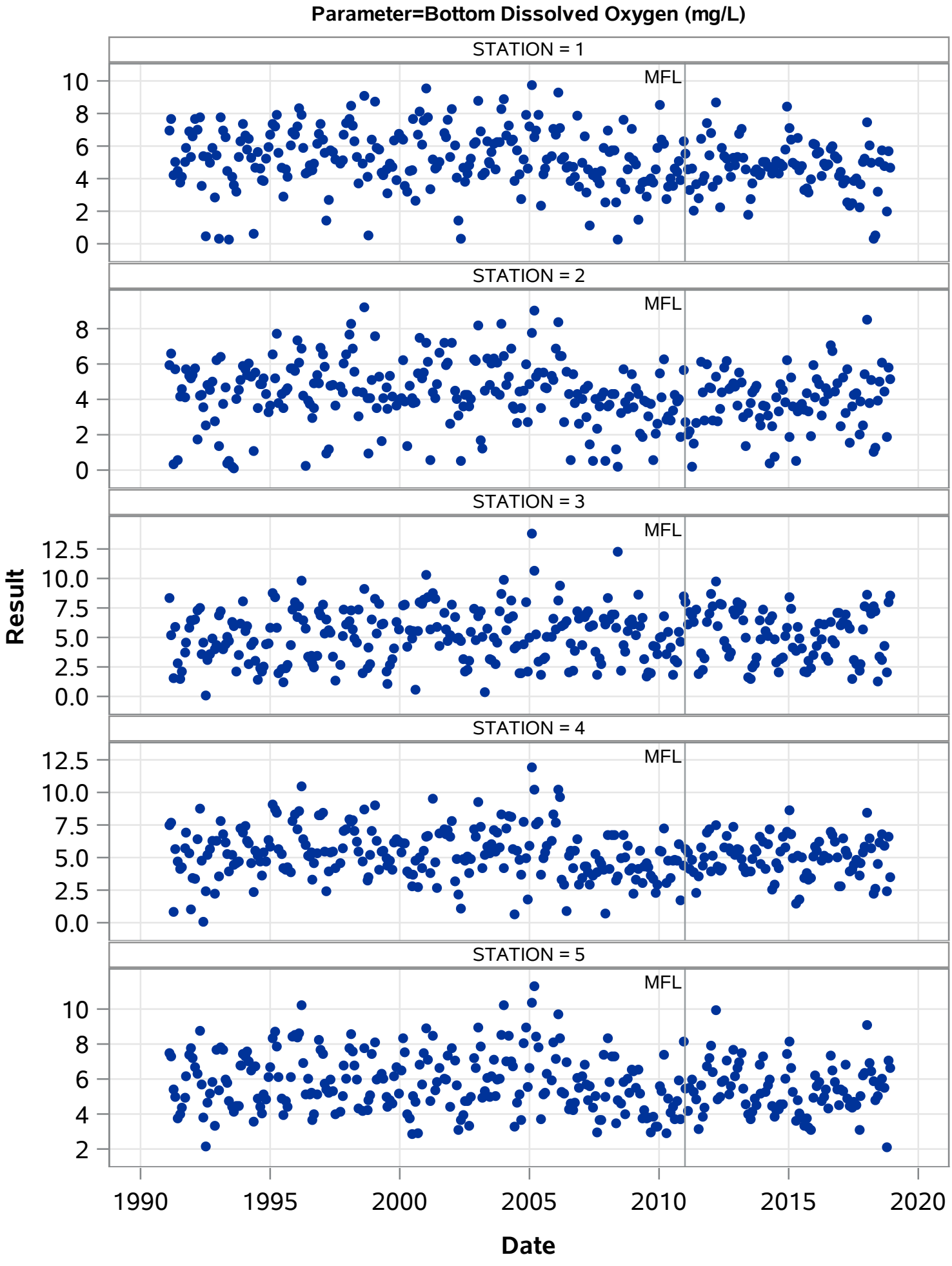

Parameter=Surface Conductivity (us/cm)
STATION = 16
MFL
40000
30000
20000
10000
0
STATION = 17
MFL
50000
40000
30000
20000
10000
0
STATION = 18
MFL
60000
40000
20000
0
STATION = 19
MFL
50000
40000
30000
20000
10000
0
STATION = 22
MFL
680
Result
1990
1995
2000
2005
2010
2015
2020
Date

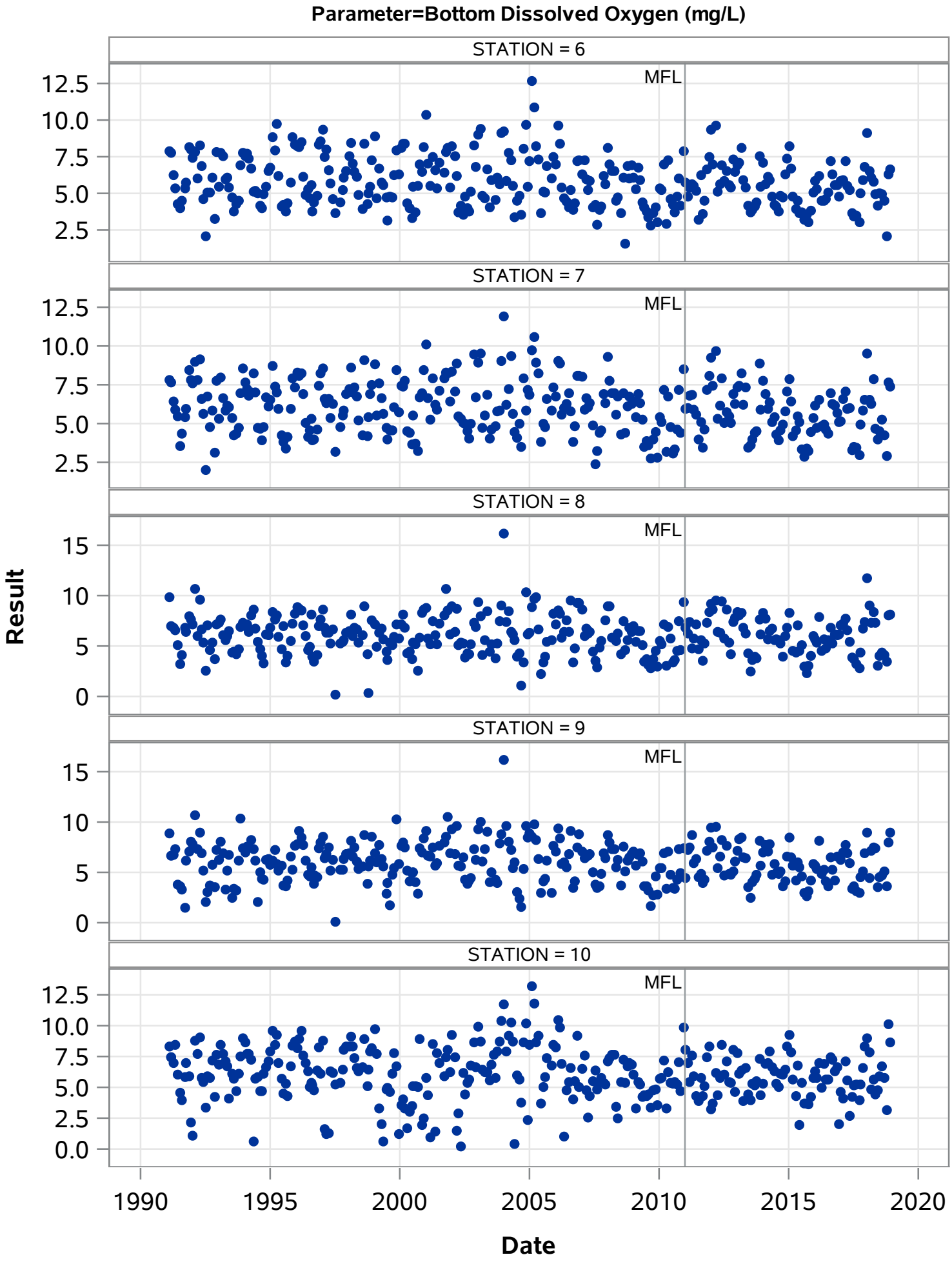

Parameter=Water Column Average Conductivity (us/cm)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

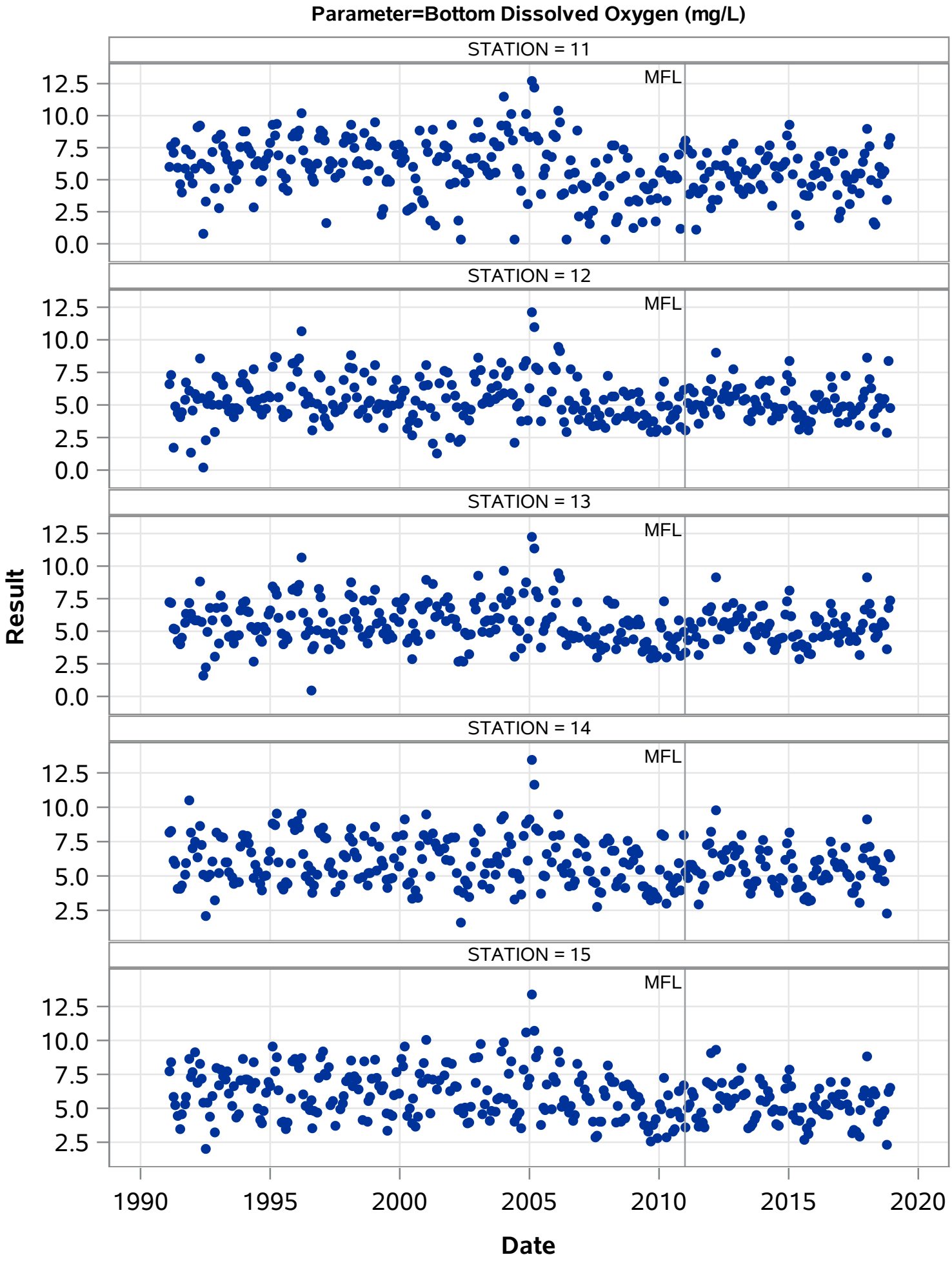

Parameter=Water Column Average Conductivity (us/cm)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
0
10000
20000
30000
40000
50000
1990
1995
2000
2005
2010
2015
2020

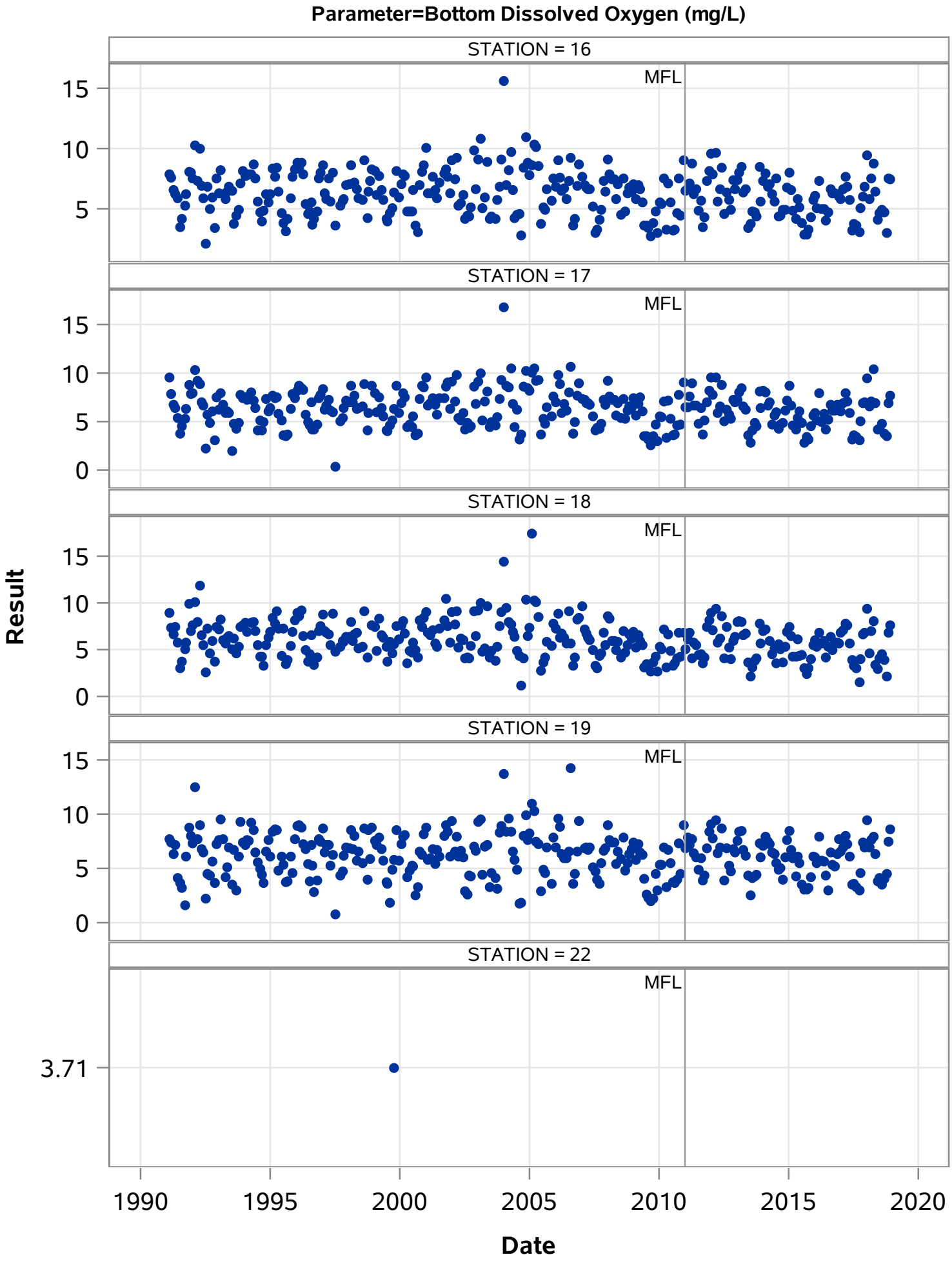

Parameter=Water Column Average Conductivity (us/cm)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
40000
30000
20000
10000
0
1990
1995
2000
2005
2010
2015
2020

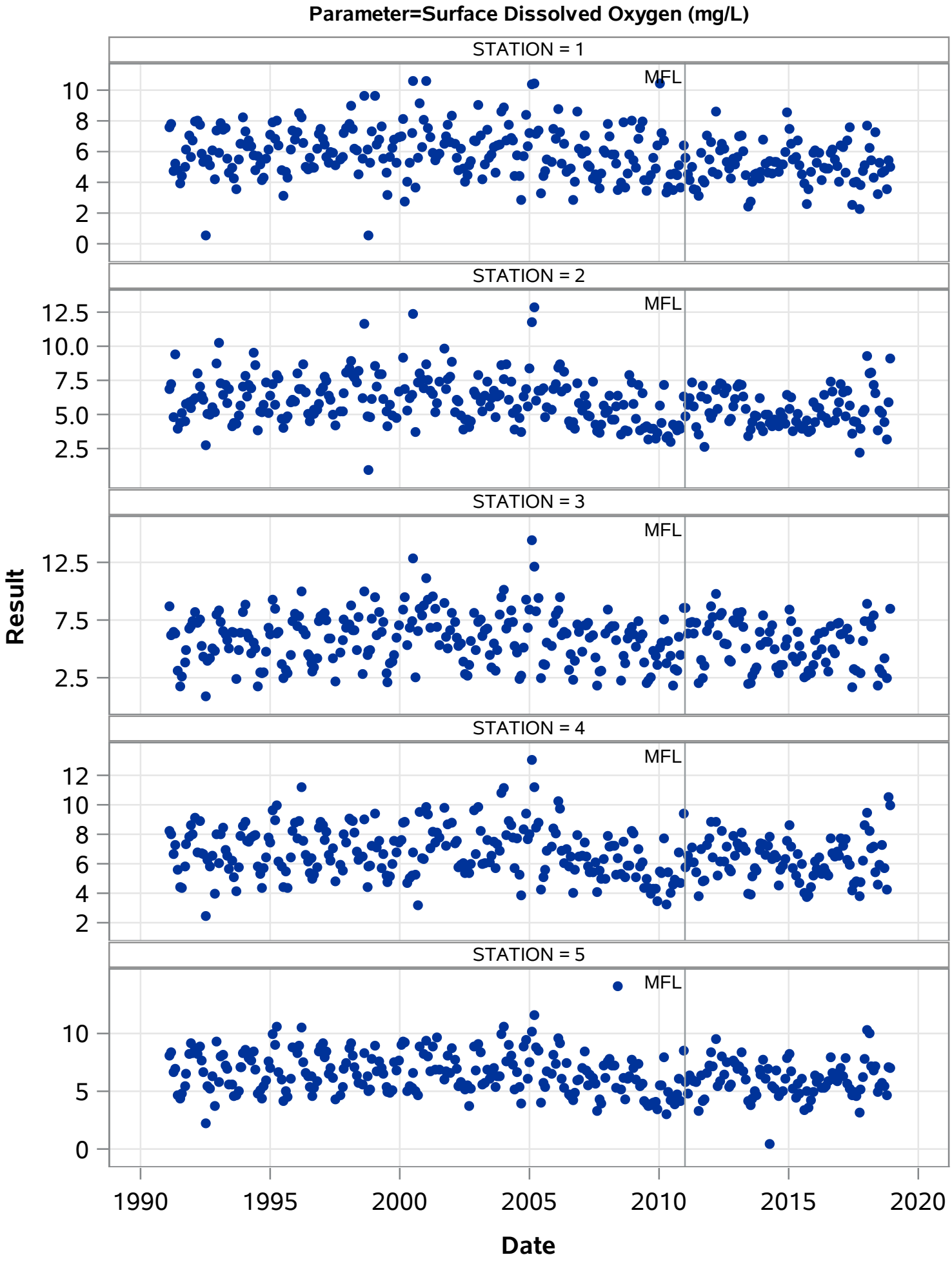

Parameter=Water Column Average Conductivity (us/cm)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
40000
30000
20000
10000
0
50000
679.5556
1990
1995
2000
2005
2010
2015
2020
Date

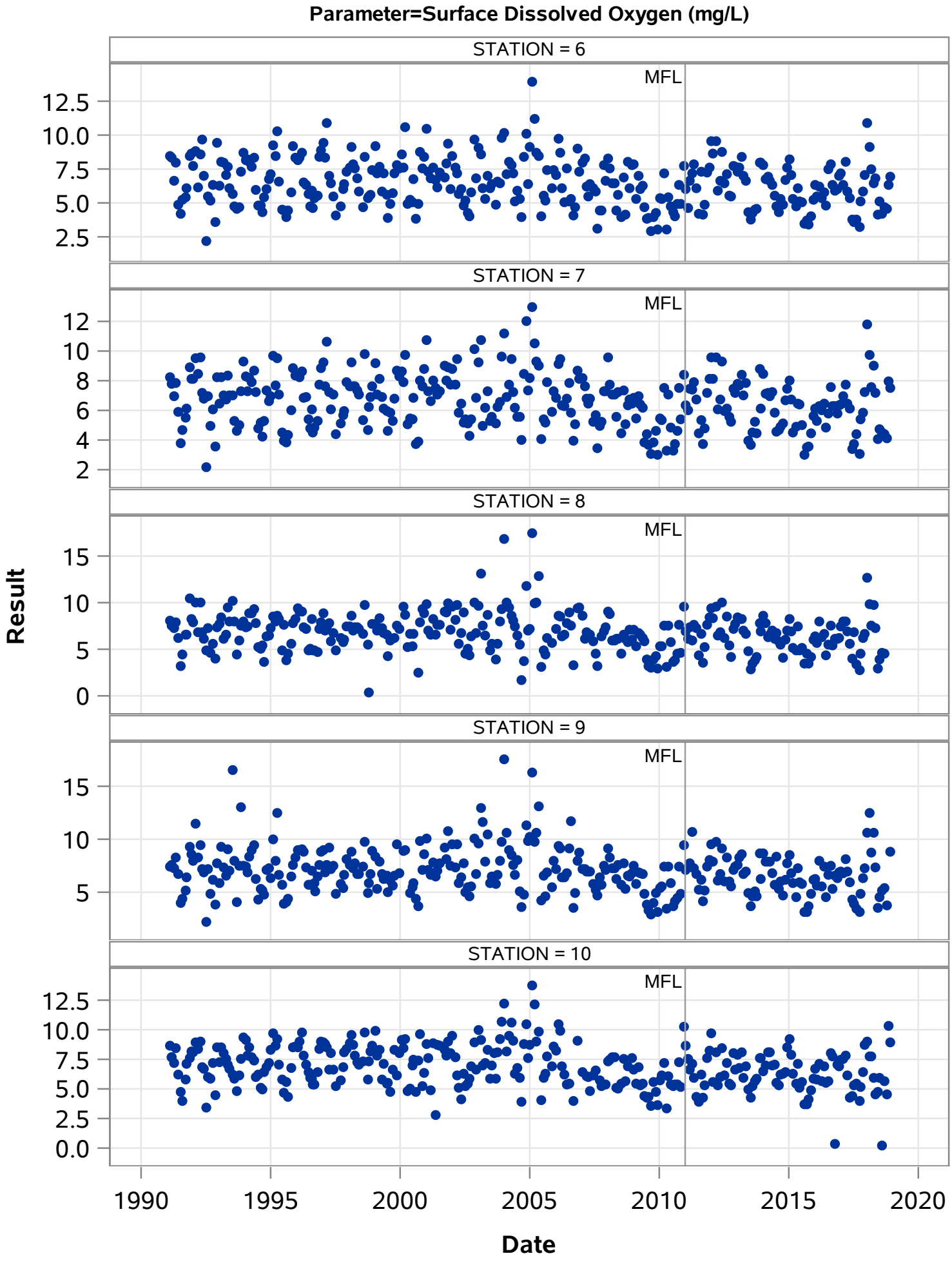

Parameter=Bottom Dissolved Oxygen (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

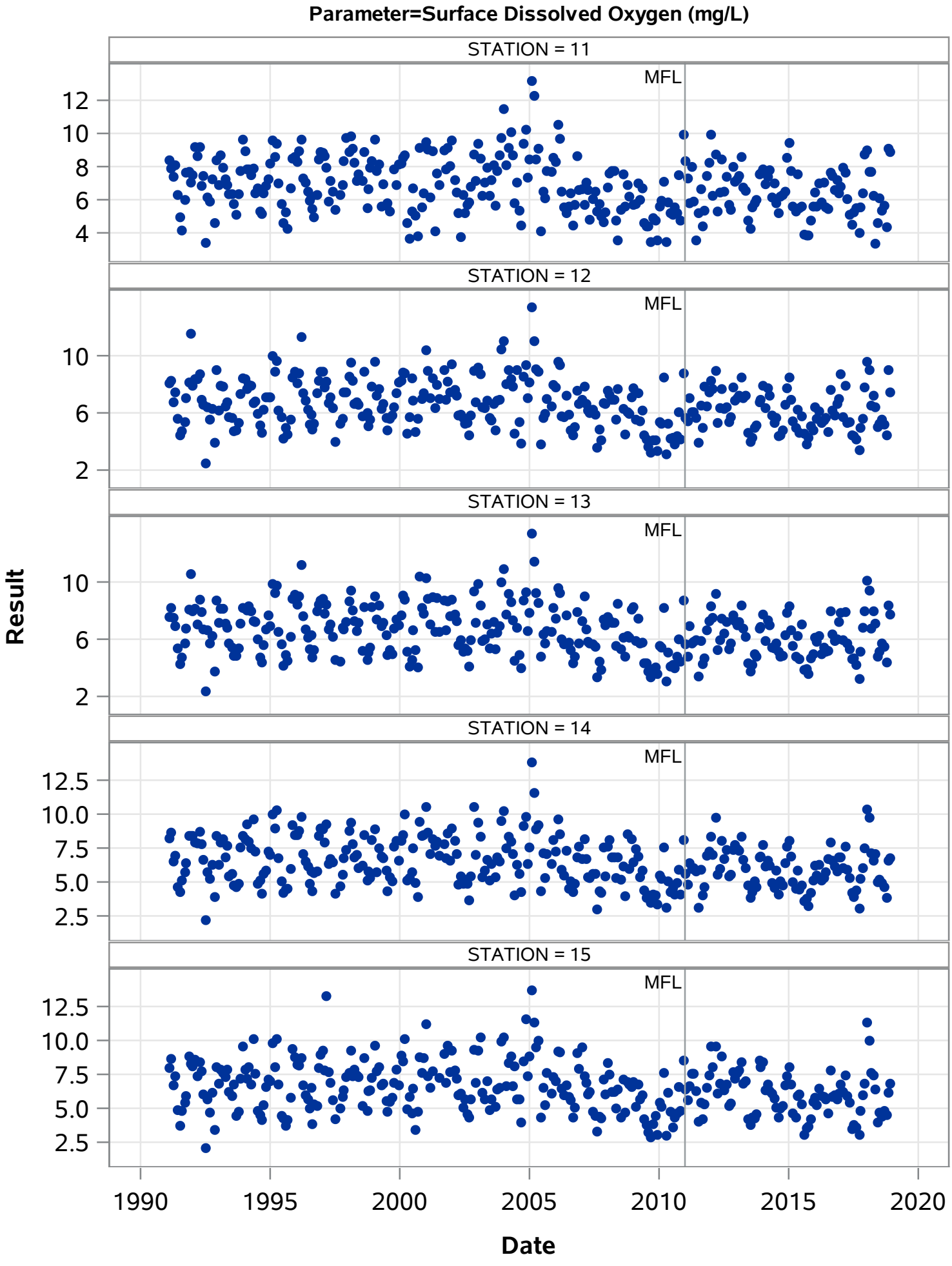

Parameter=Bottom Dissolved Oxygen (mg/L)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

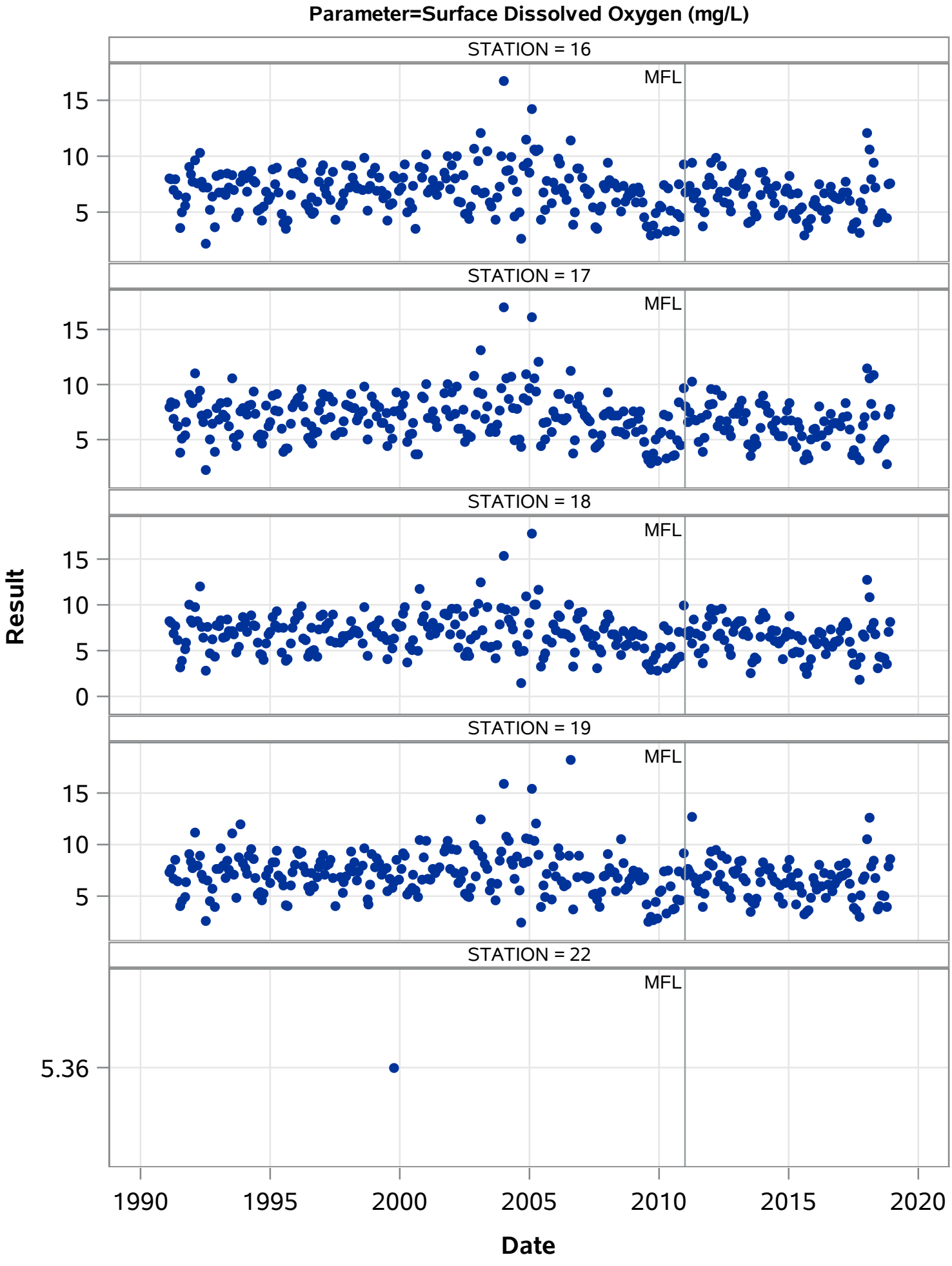

Parameter=Bottom Dissolved Oxygen (mg/L)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
12.5
10.0
7.5
5.0
2.5
0.0
1990
1995
2000
2005
2010
2015
2020
Date

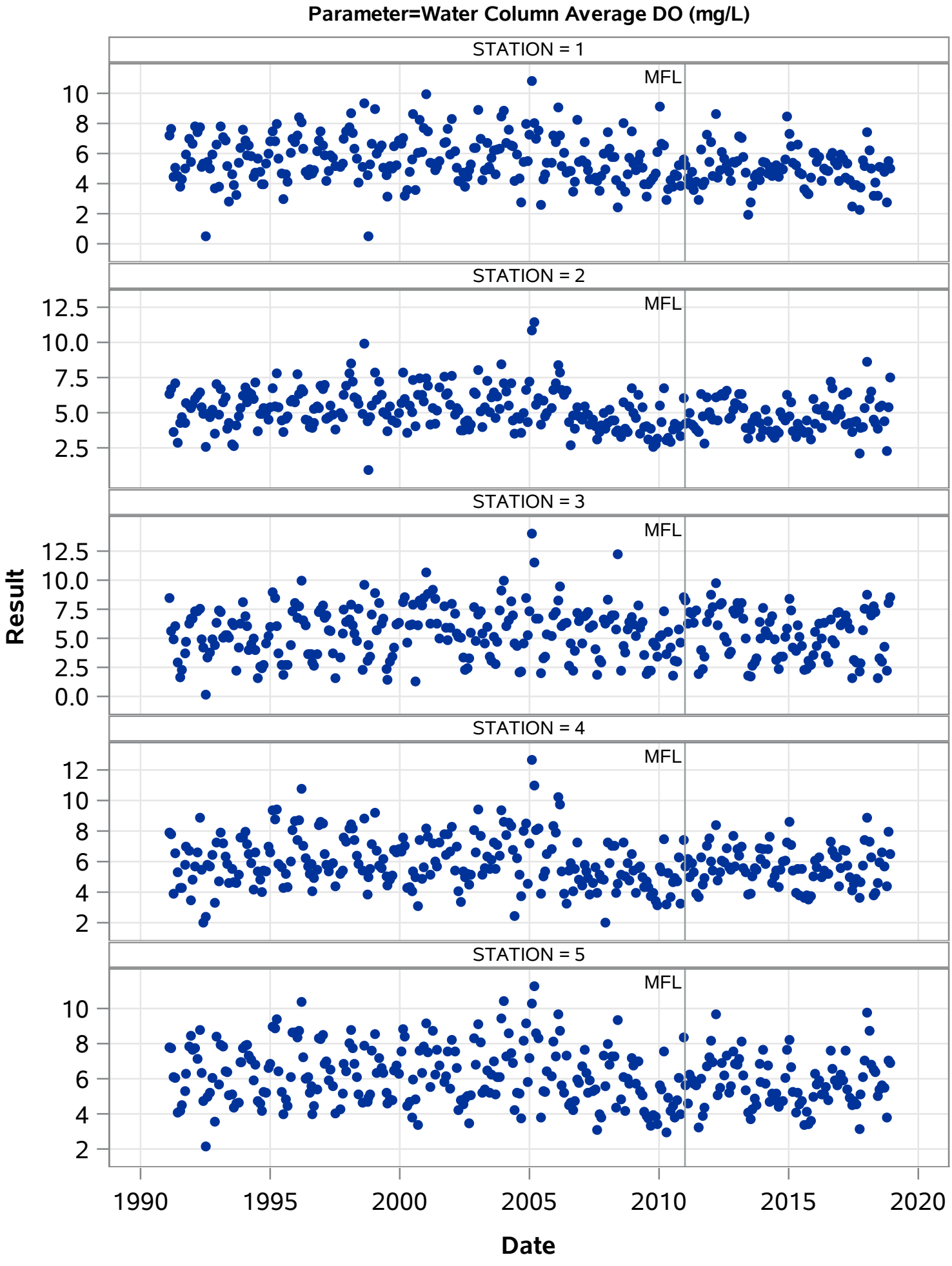

Parameter=Bottom Dissolved Oxygen (mg/L)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
15
10
5
0
3.71
1990
1995
2000
2005
2010
2015
2020
Date

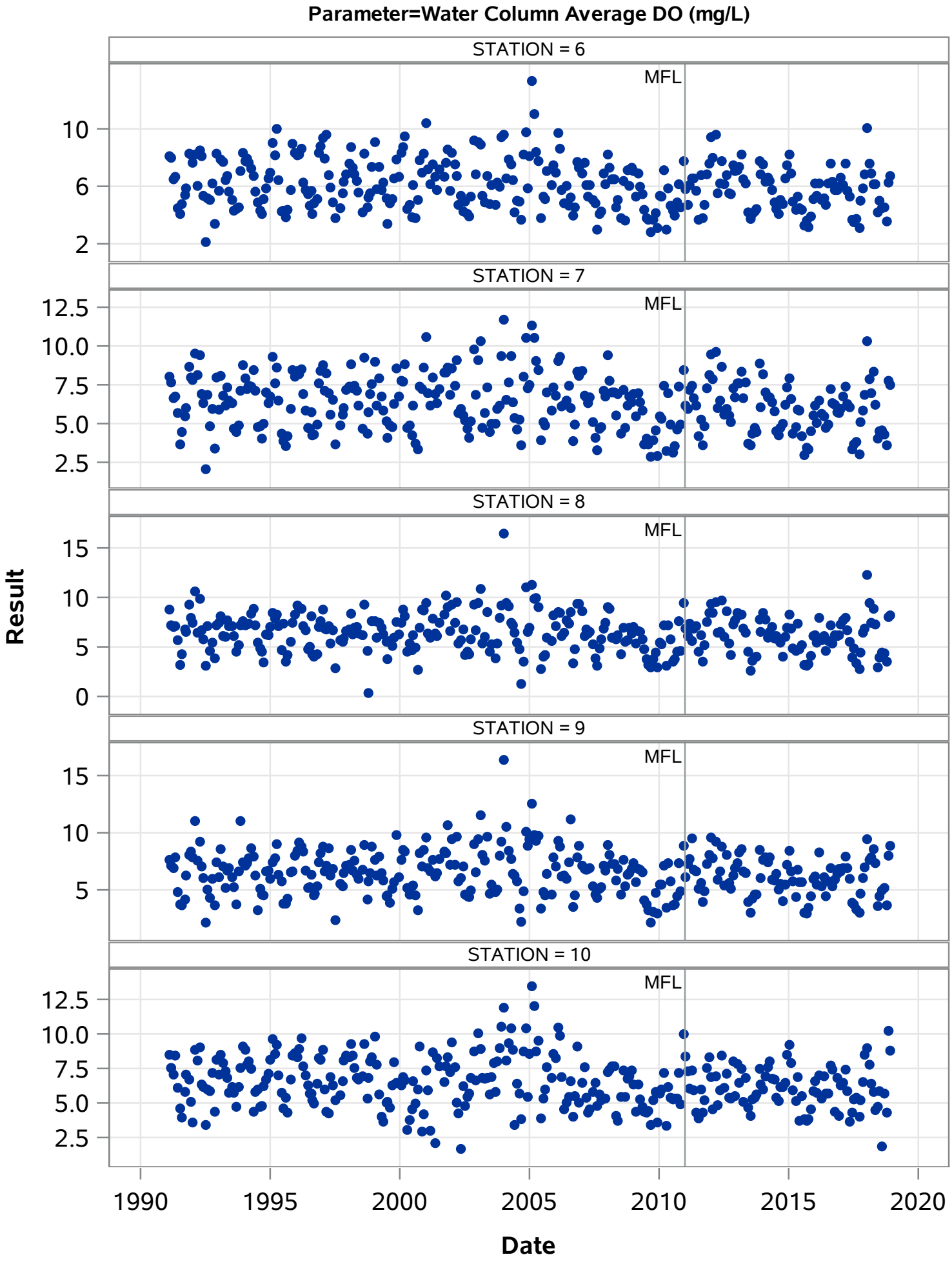

Parameter=Surface Dissolved Oxygen (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

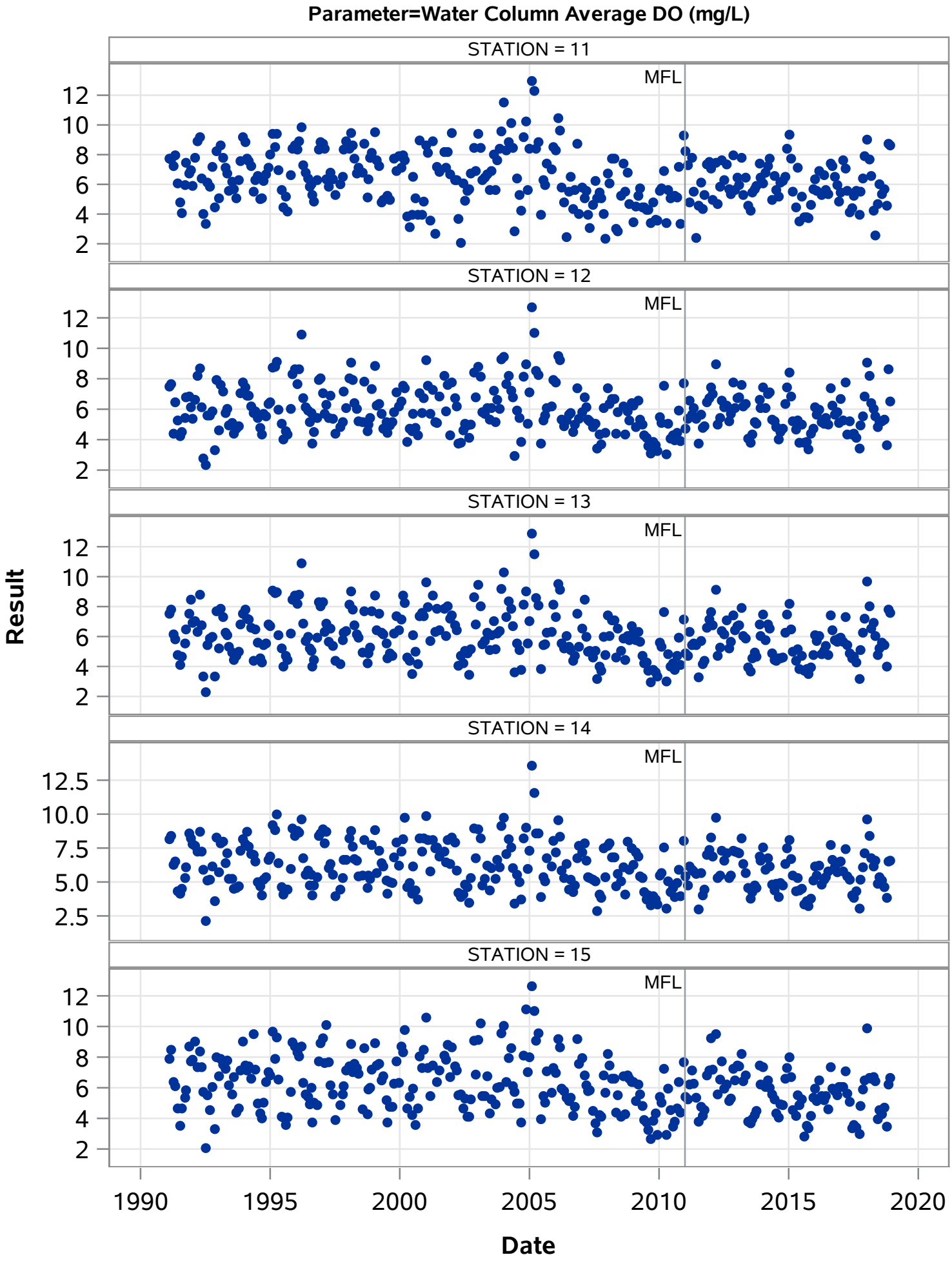

Parameter=Surface Dissolved Oxygen (mg/L)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

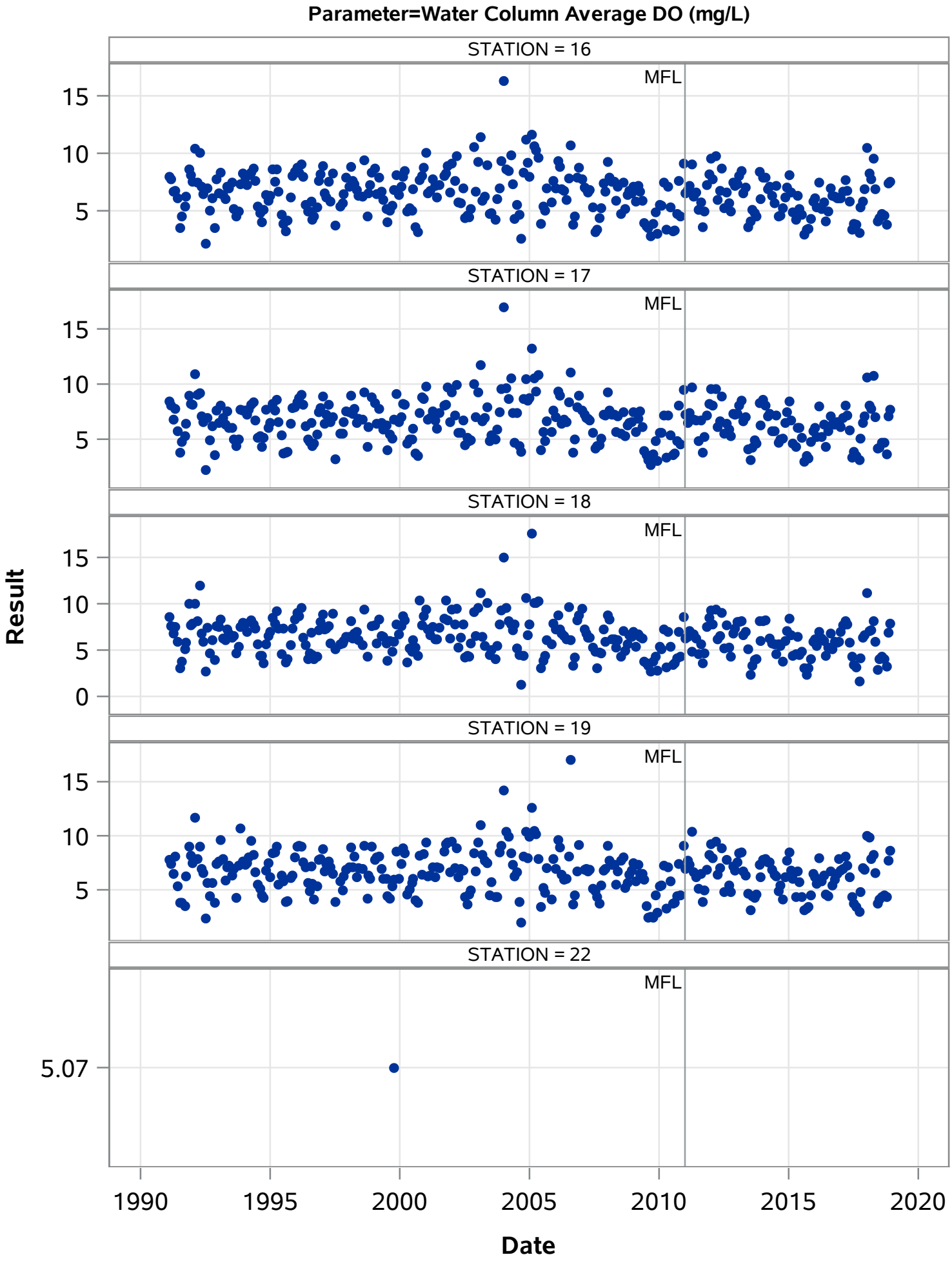

Parameter=Surface Dissolved Oxygen (mg/L)
STATION = 11
MFL
12
10
8
6
4
STATION = 12
MFL
10
6
2
STATION = 13
MFL
10
6
2
STATION = 14
MFL
12.5
10.0
7.5
5.0
2.5
STATION = 15
MFL
12.5
10.0
7.5
5.0
2.5
Result
1990
1995
2000
2005
2010
2015
2020
Date

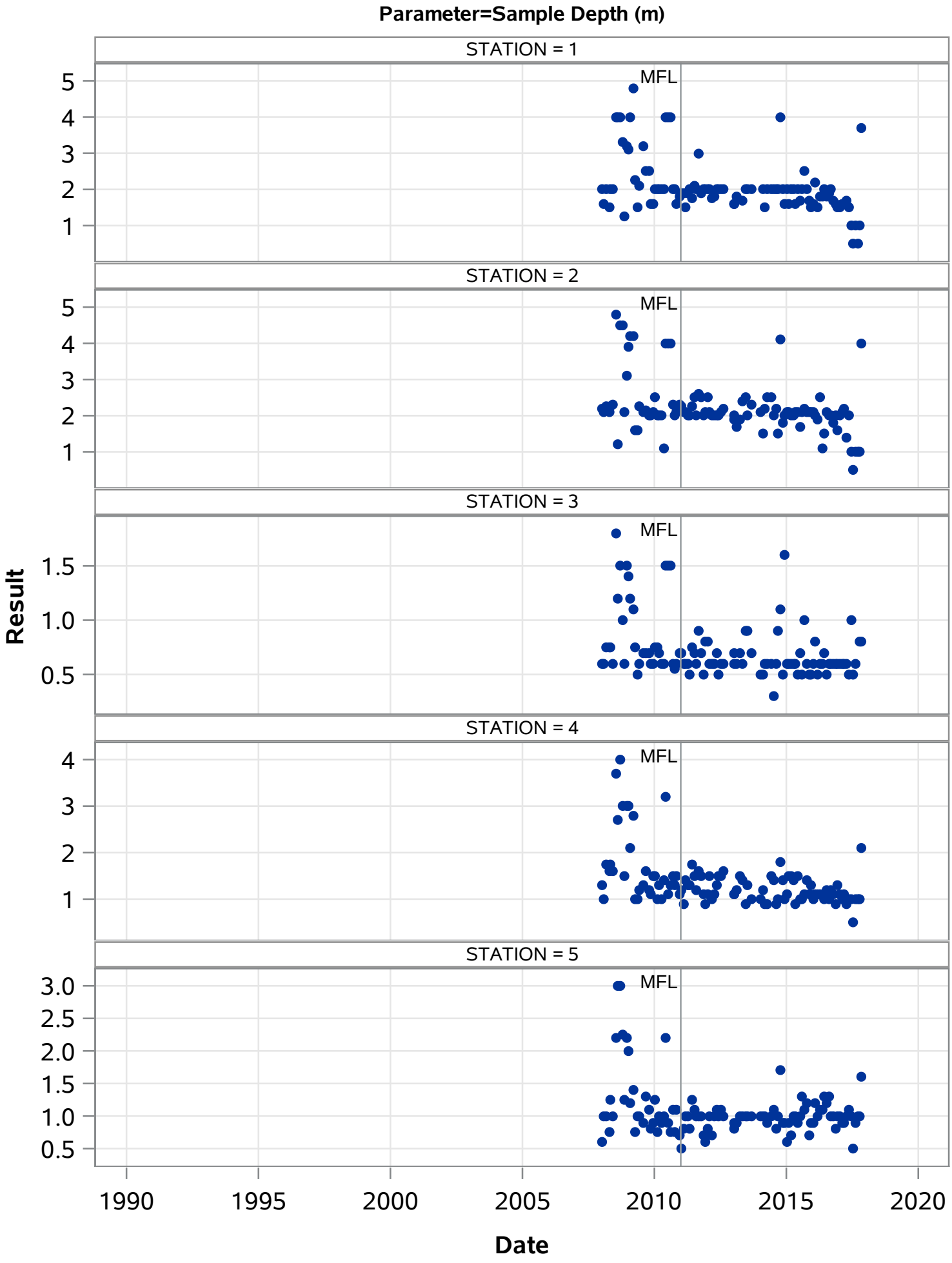

Parameter=Surface Dissolved Oxygen (mg/L)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
15
10
5
0
5.36
1990
1995
2000
2005
2010
2015
2020
Date

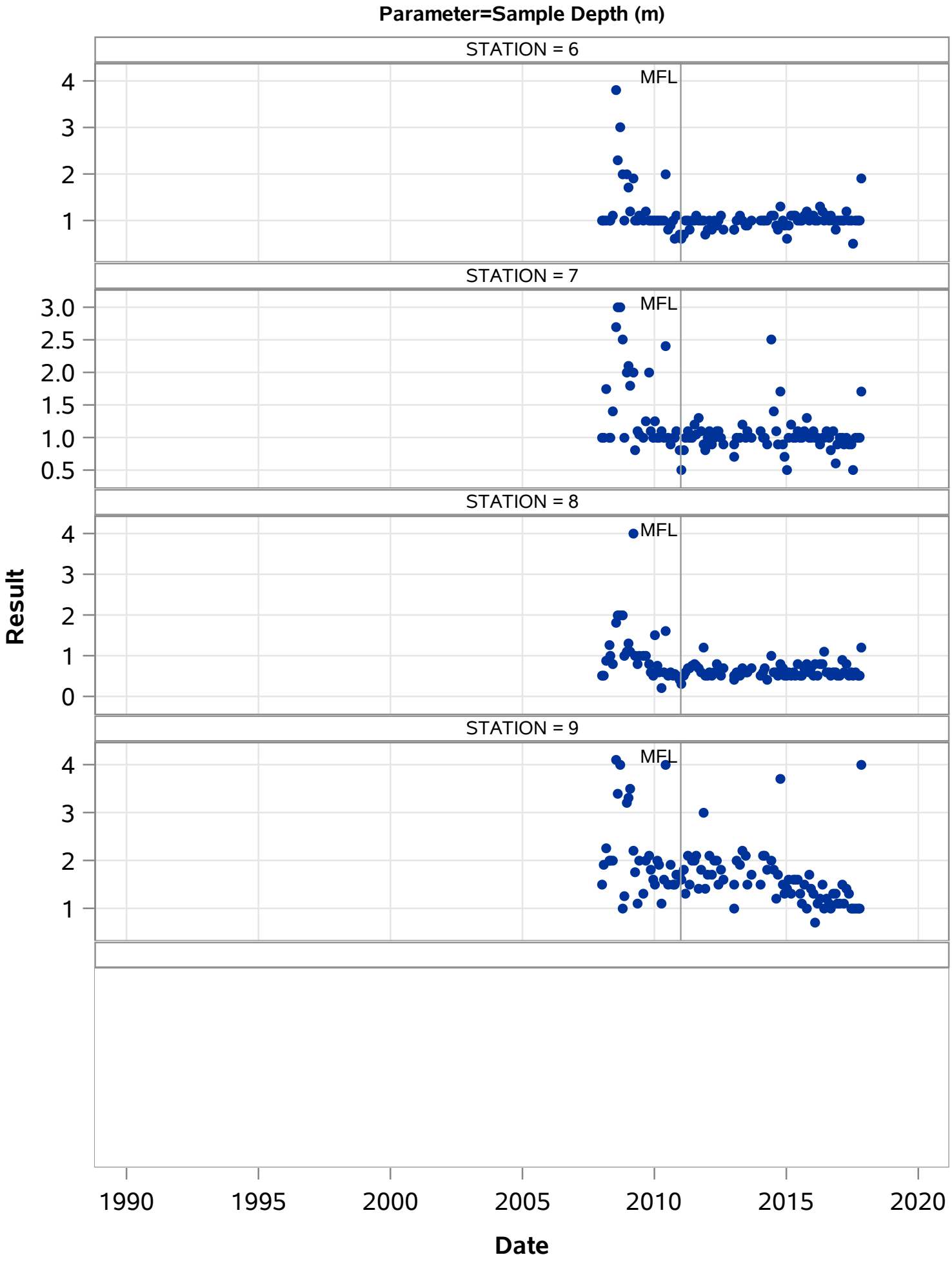

Parameter=Water Column Average DO (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

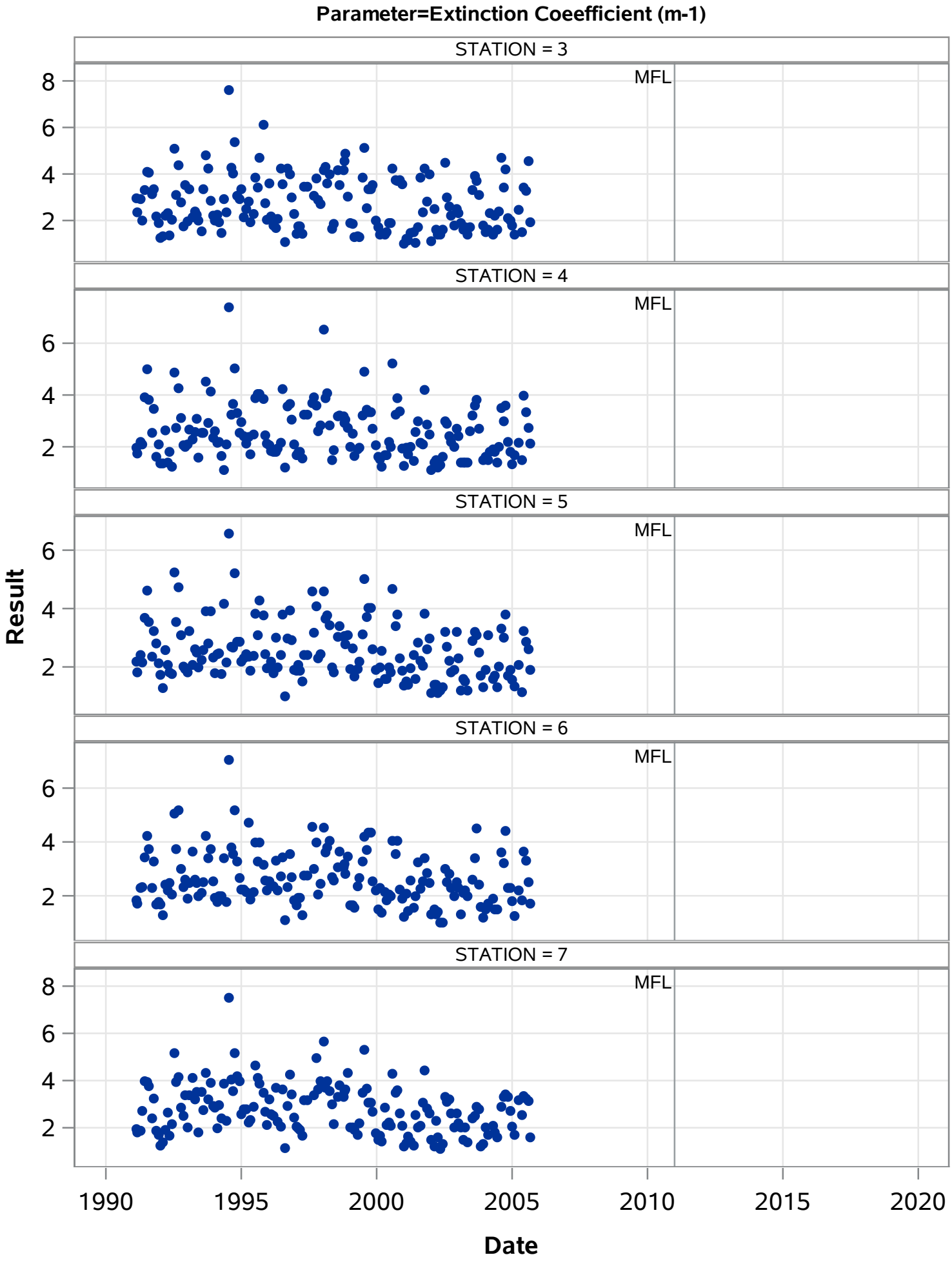

Parameter=Water Column Average DO (mg/L)
STATION = 6
MFL
10
6
2
STATION = 7
MFL
12.5
10.0
7.5
5.0
2.5
STATION = 8
MFL
15
10
5
0
STATION = 9
MFL
15
10
5
STATION = 10
MFL
12.5
10.0
7.5
5.0
2.5
Result
1990
1995
2000
2005
2010
2015
2020
Date

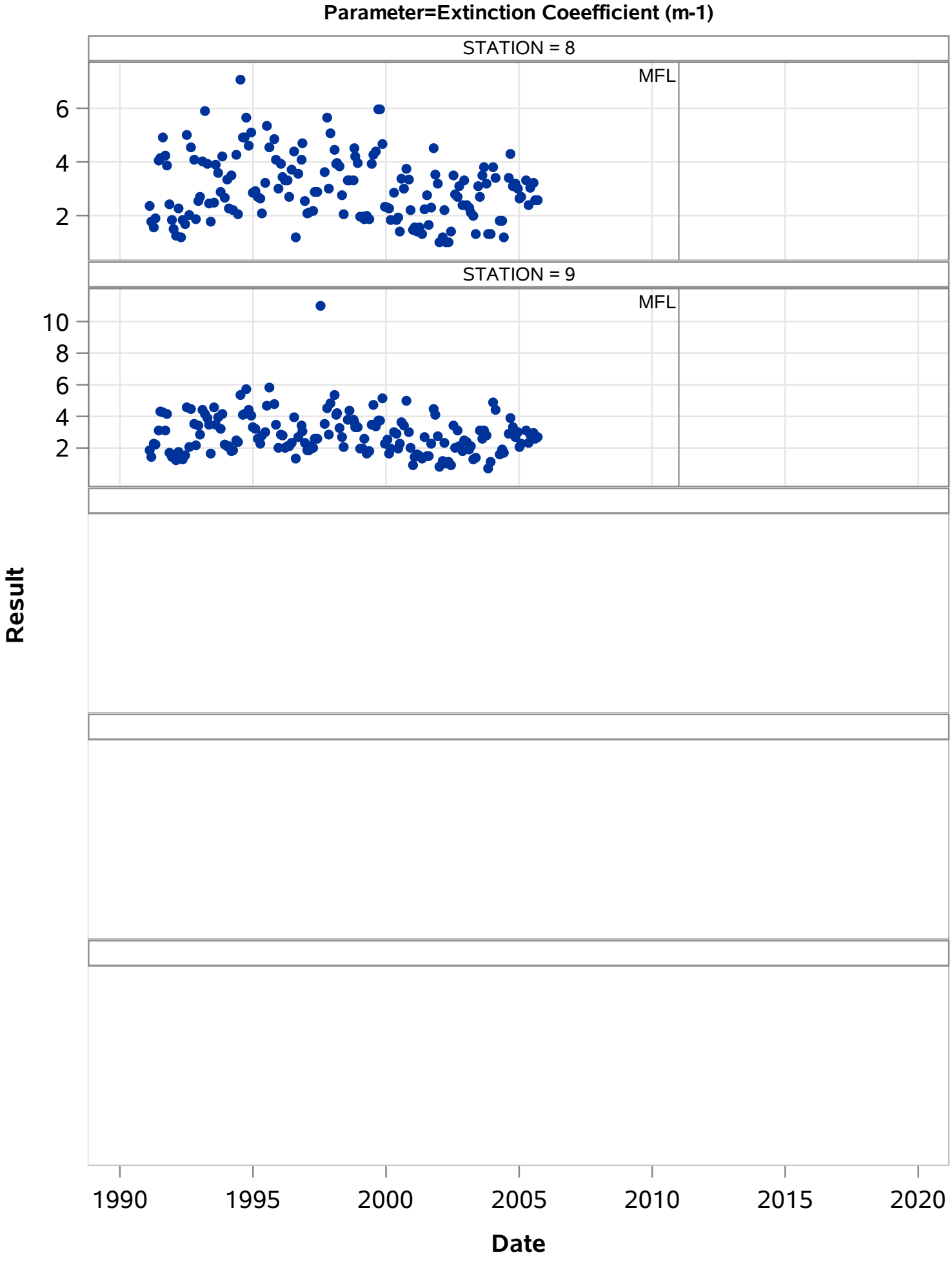

Parameter=Water Column Average DO (mg/L)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

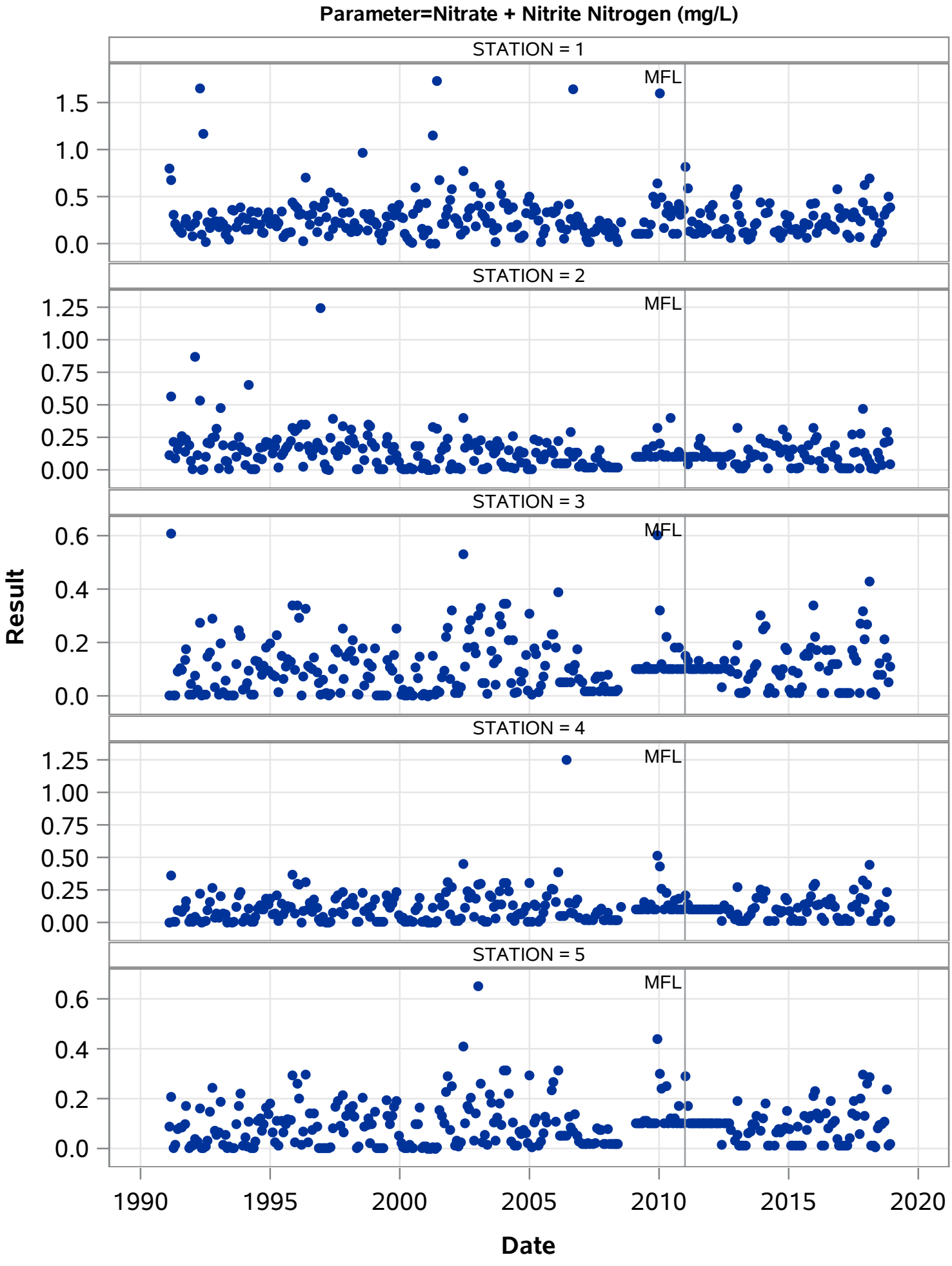

Parameter=Water Column Average DO (mg/L)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
15
10
5
0
5.07
1990
1995
2000
2005
2010
2015
2020
Date

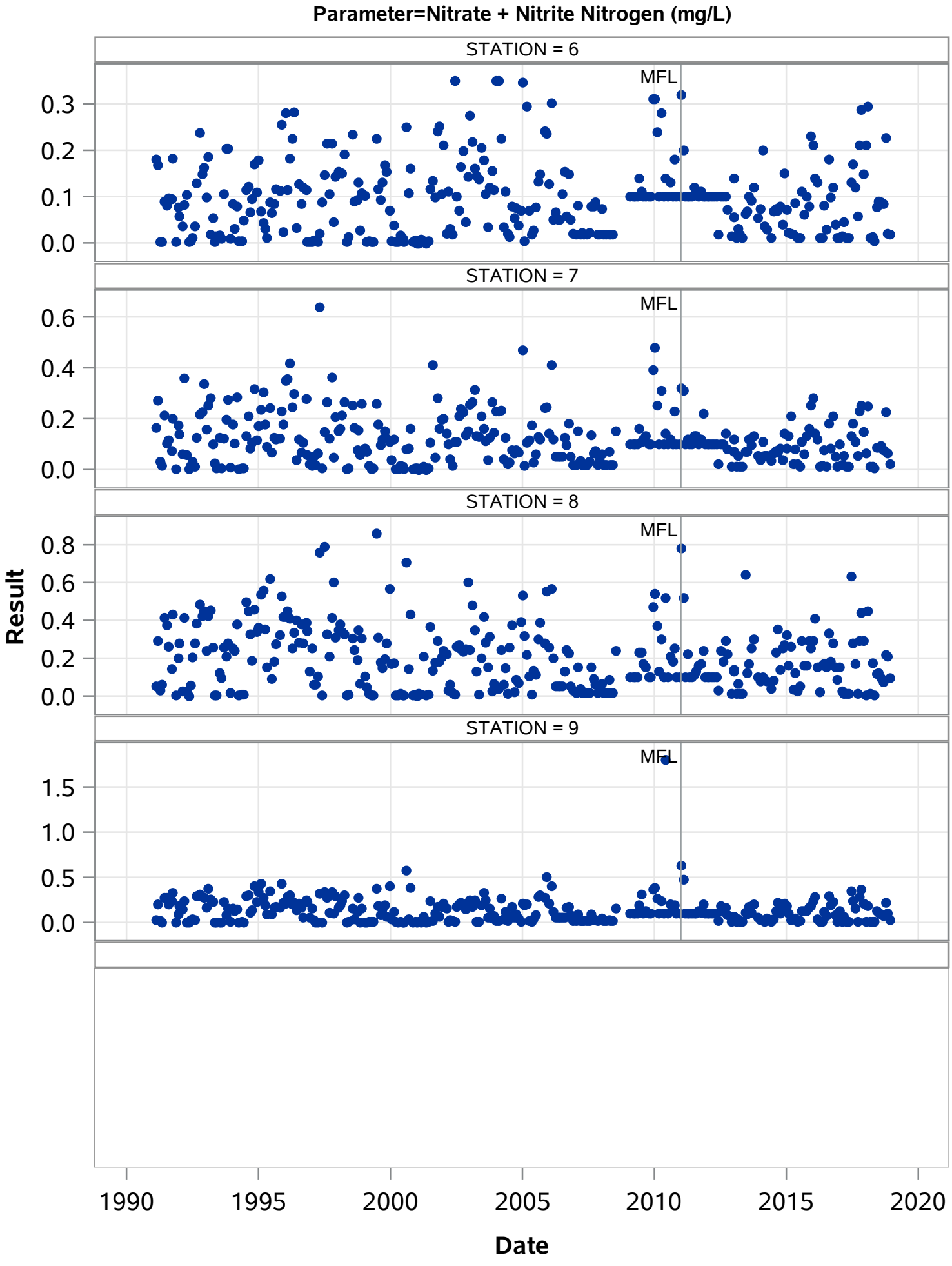

Parameter=Sample Depth (m)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

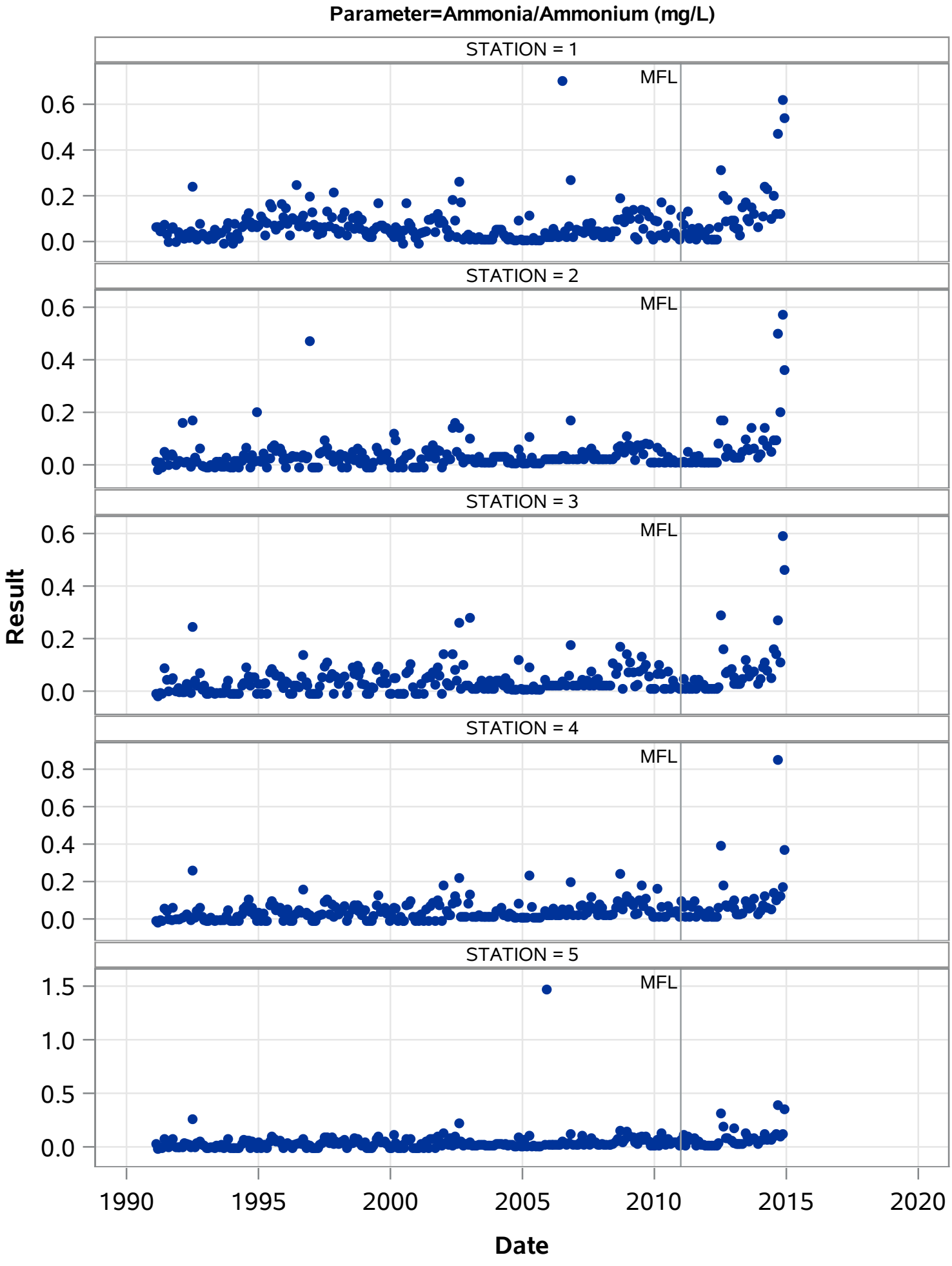

Parameter=Sample Depth (m)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

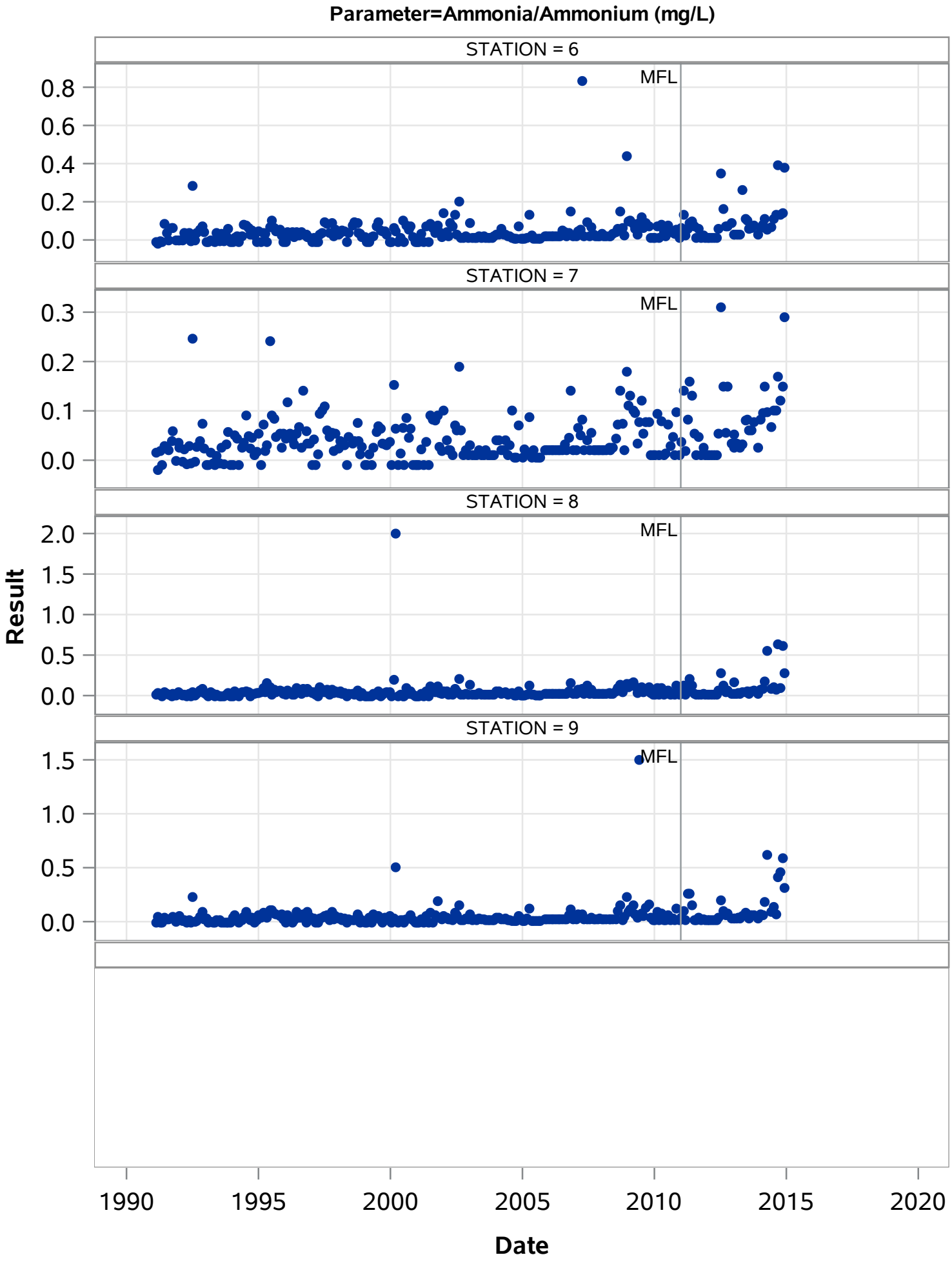

Parameter=Extinction Coeefficient (m-1)
STATION = 3
STATION = 4
STATION = 5
STATION = 6
STATION = 7
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

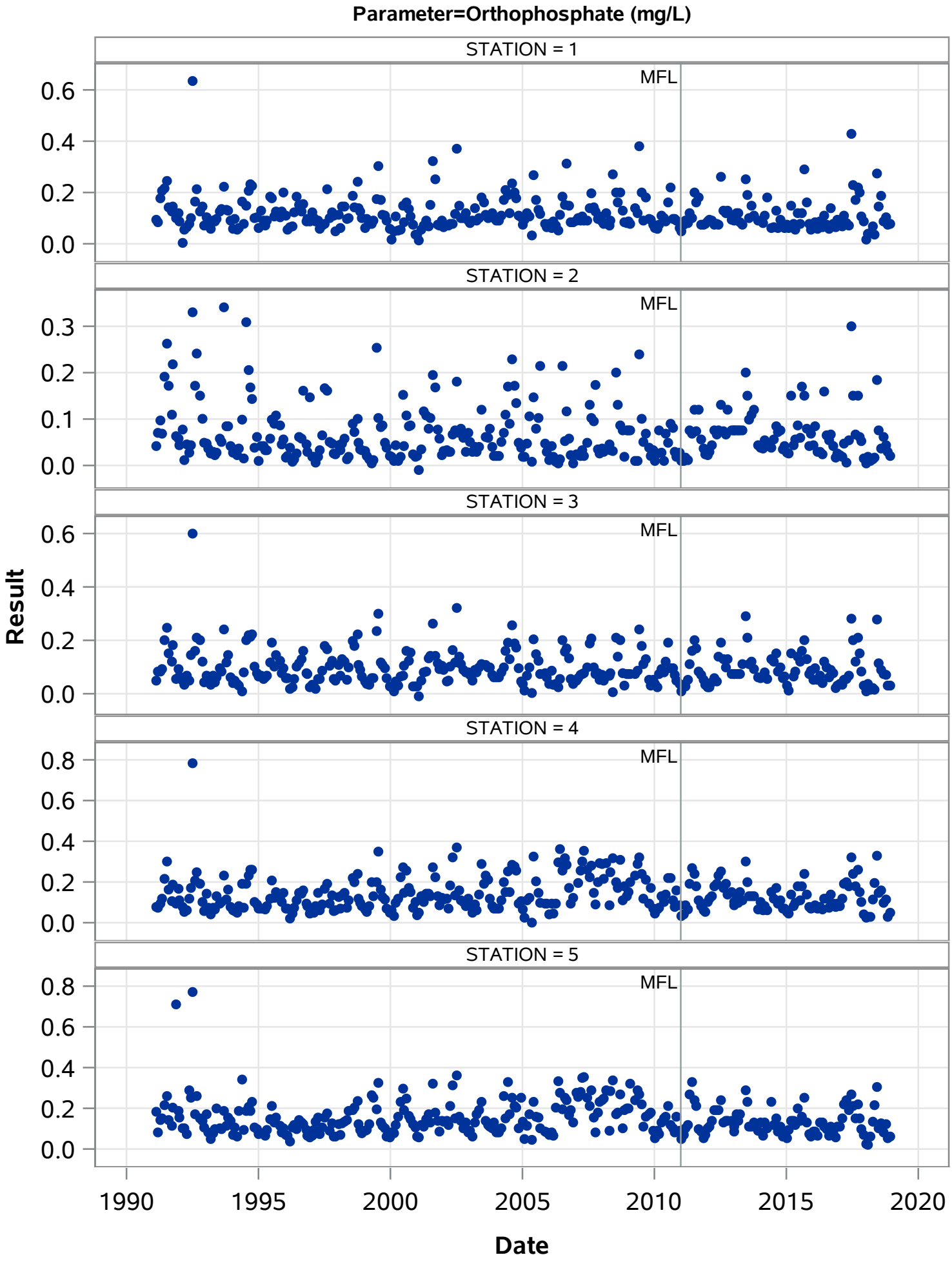

Parameter=Extinction Coeefficient (m-1)
STATION = 8
MFL
6
4
2
STATION = 9
MFL
10
8
6
4
2
Result
1990
1995
2000
2005
2010
2015
2020
Date

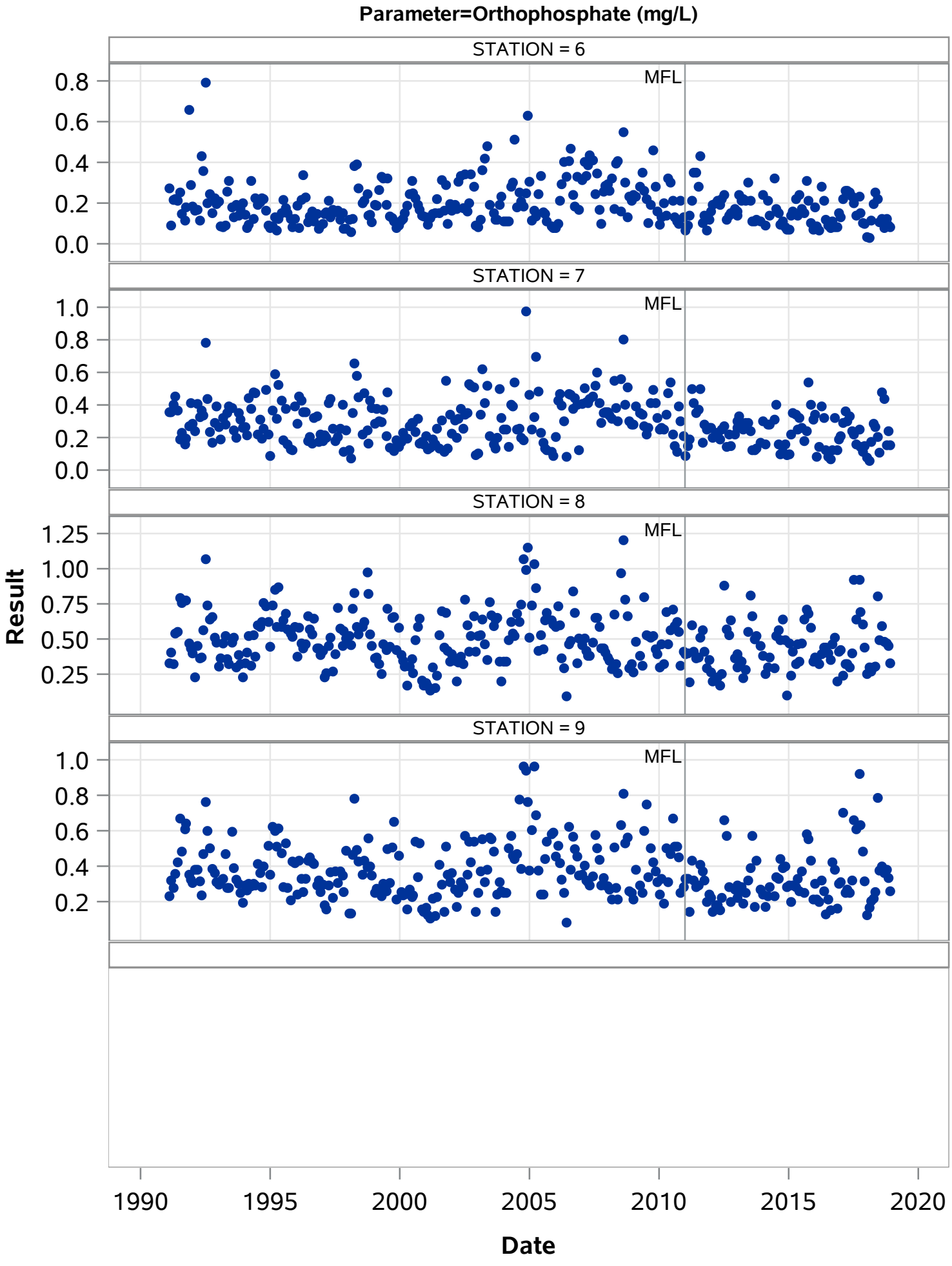

Parameter=Nitrate + Nitrite Nitrogen (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

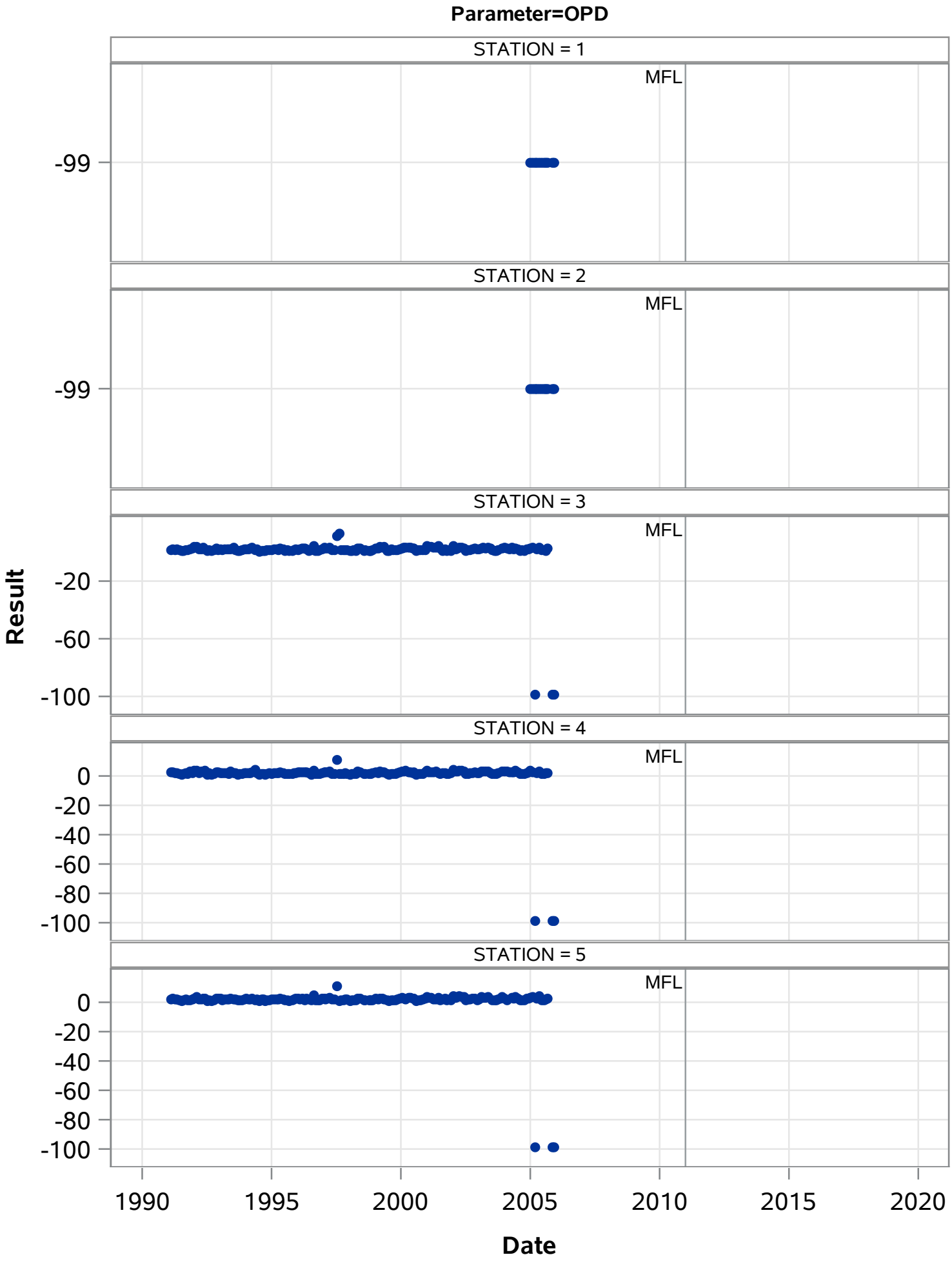

Parameter=Nitrate + Nitrite Nitrogen (mg/L)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
0.0
0.1
0.2
0.3
0.4
0.6
0.8
1.0
1.5
0.5
1990
1995
2000
2005
2010
2015
2020
Date

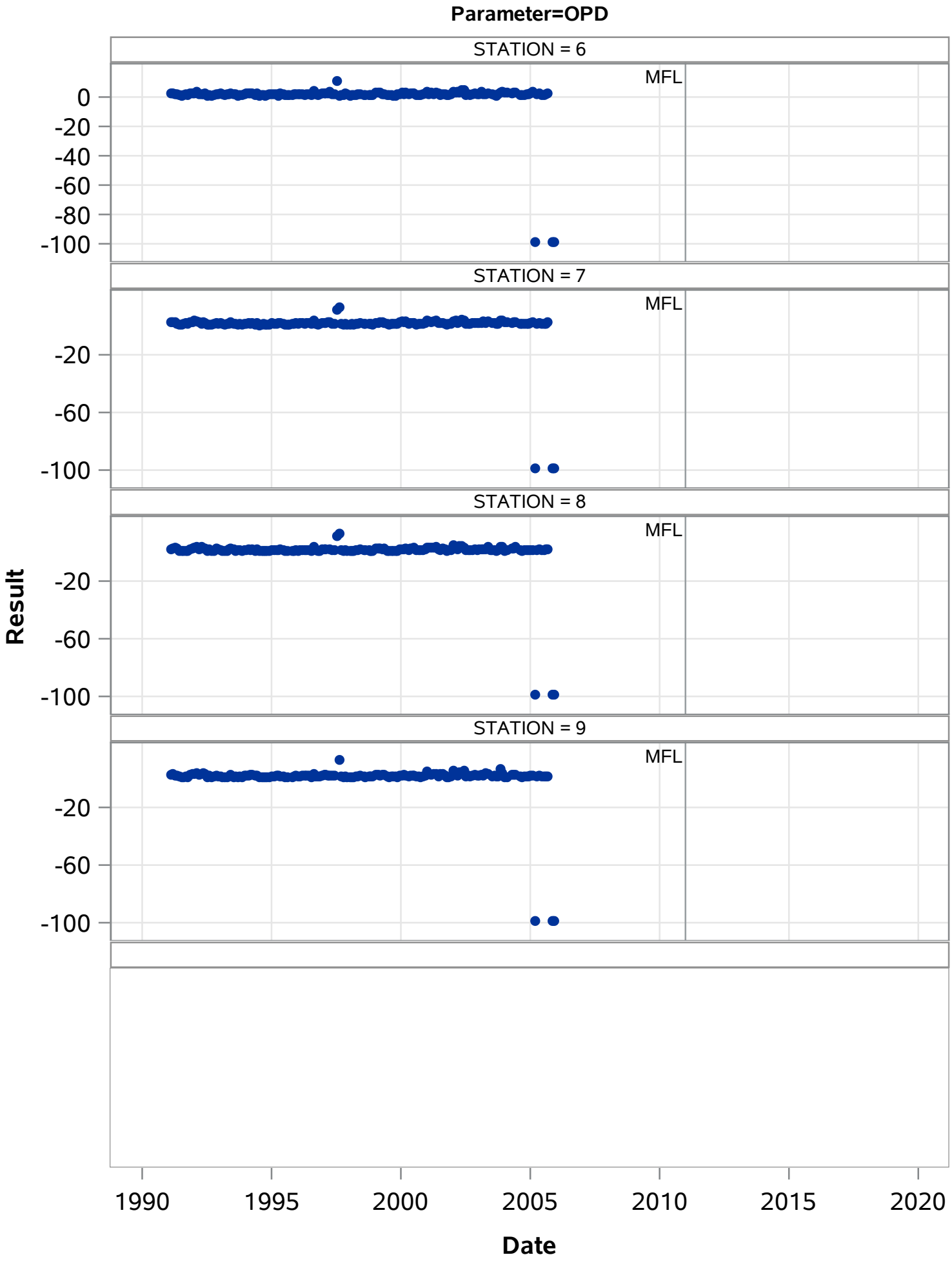

Parameter=Ammonia/Ammonium (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
0.0
0.2
0.4
0.6
0.8
0.5
1.0
1.5
1990
1995
2000
2005
2010
2015
2020

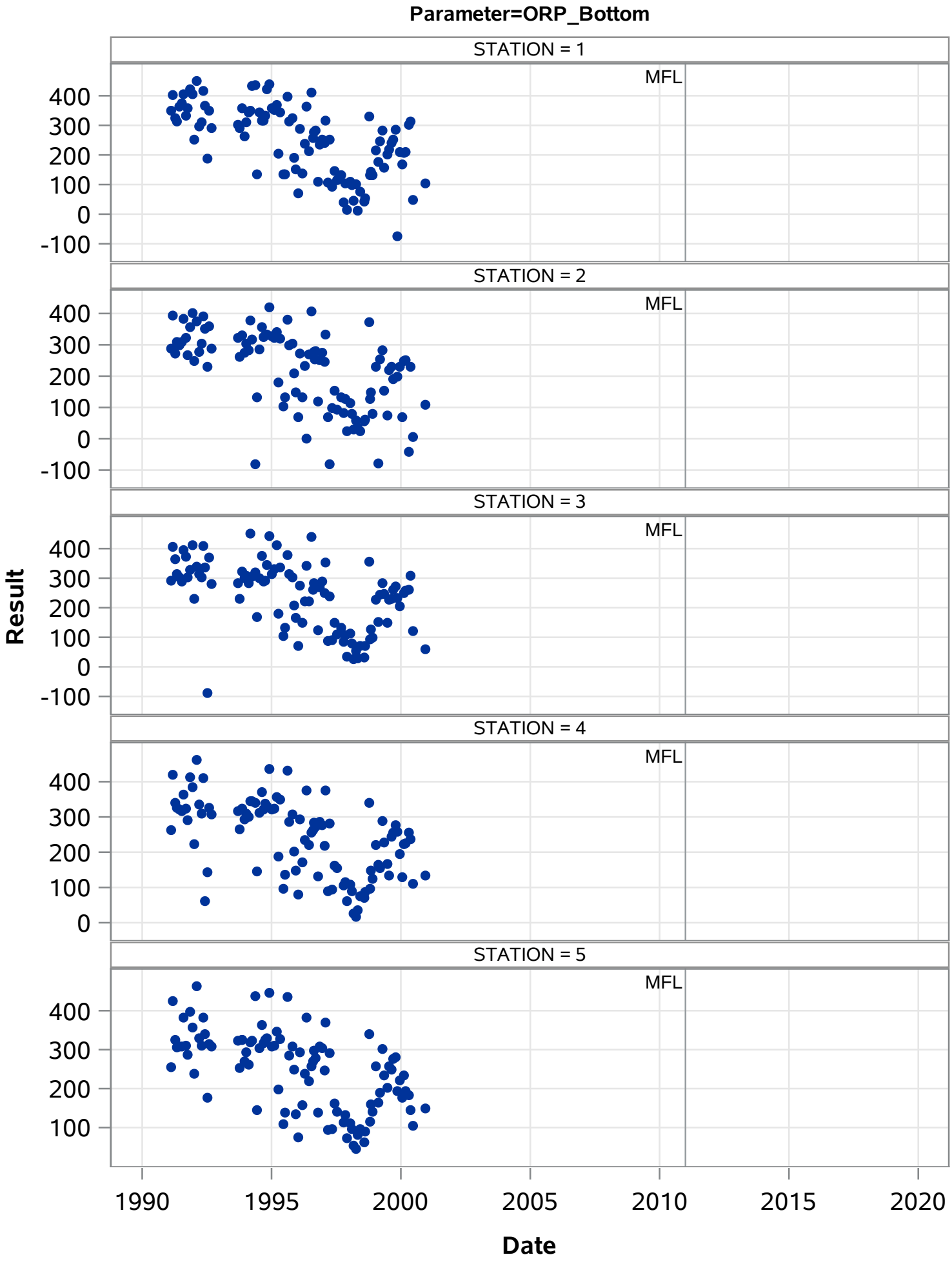

Parameter=Ammonia/Ammonium (mg/L)
STATION = 6
MFL
0.8
0.6
0.4
0.2
0.0
STATION = 7
MFL
0.3
0.2
0.1
0.0
STATION = 8
MFL
2.0
1.5
1.0
0.5
0.0
STATION = 9
MFL
1.5
1.0
0.5
0.0
Result
1990
1995
2000
2005
2010
2015
2020
Date

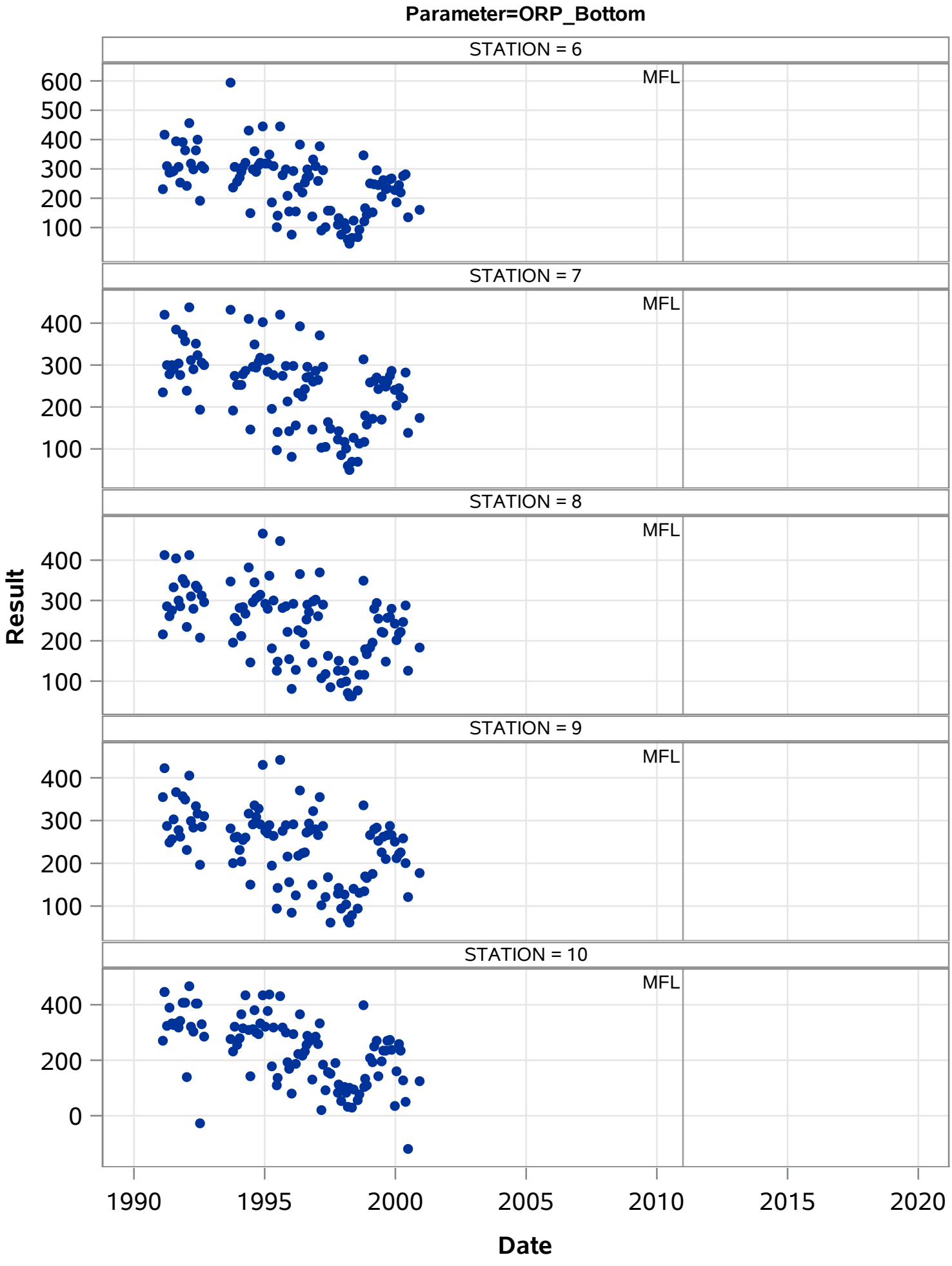

Parameter=Orthophosphate (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

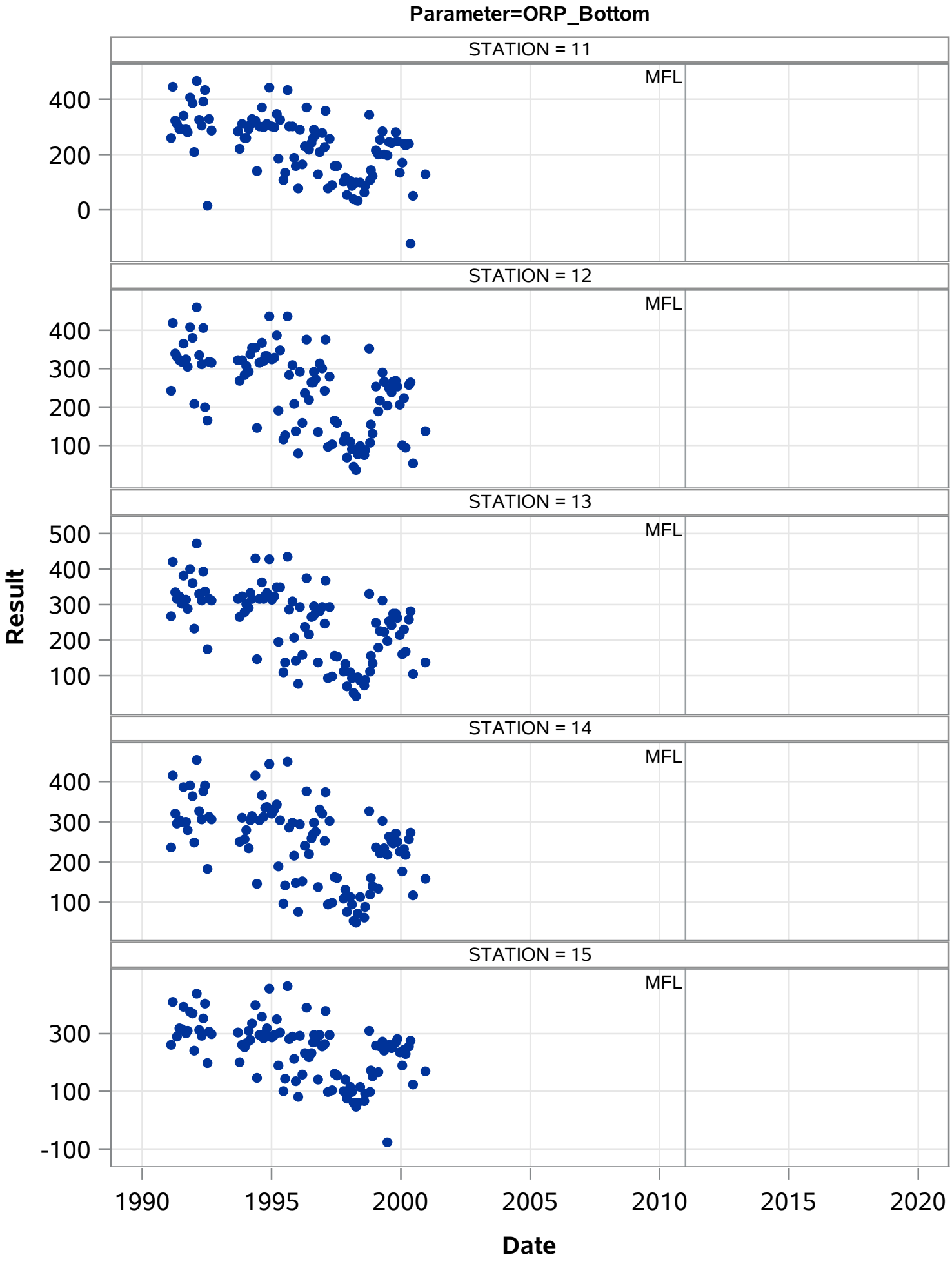

Parameter=Orthophosphate (mg/L)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
Date
0.0
0.2
0.4
0.6
0.8
1.0
0.25
0.50
0.75
1.00
1.25
1990
1995
2000
2005
2010
2015
2020

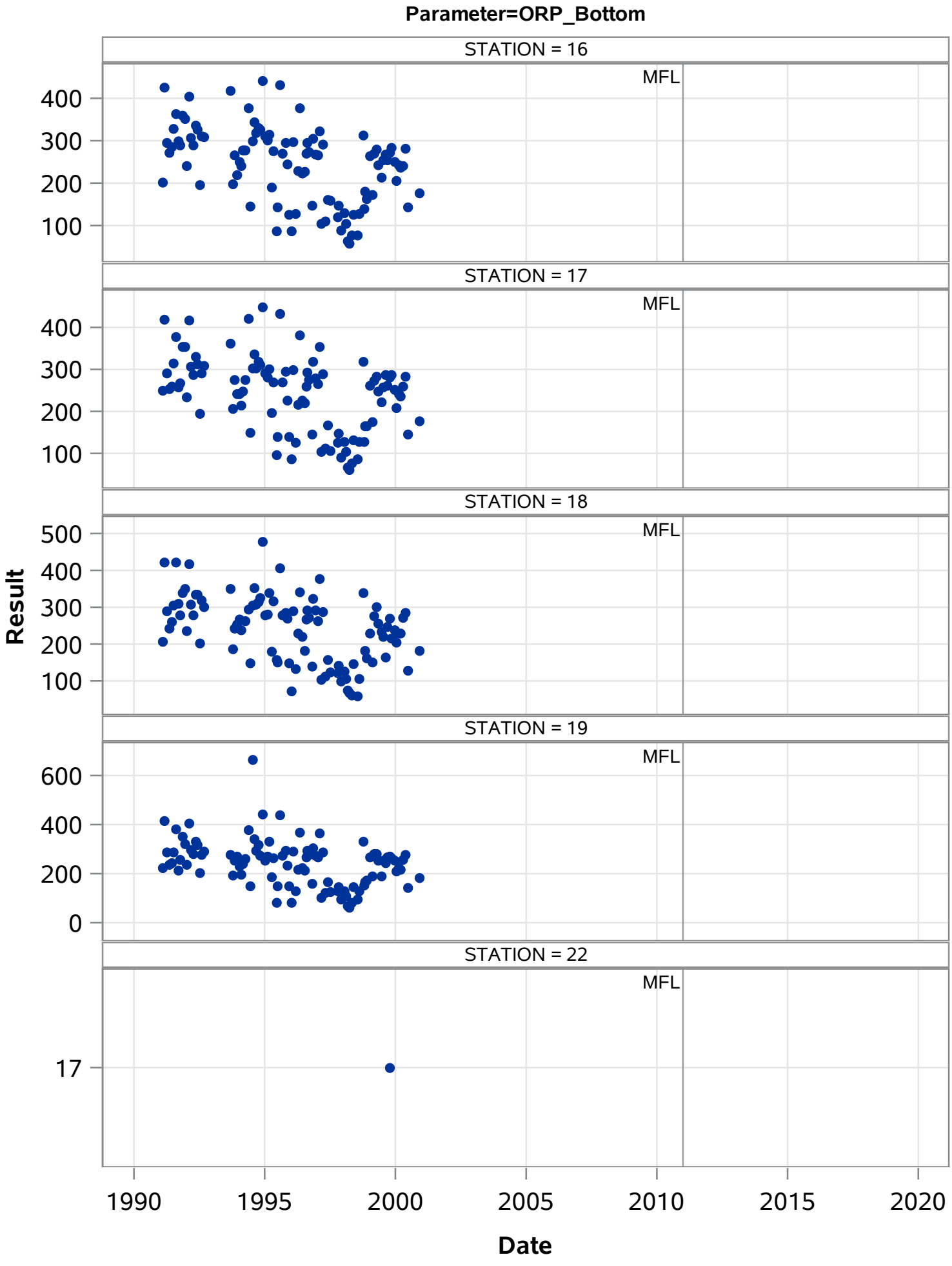

Parameter=OPD
STATION = 1
MFL
-99
STATION = 2
MFL
-99
STATION = 3
MFL
-20
-60
-100
STATION = 4
MFL
0
-20
-40
-60
-80
-100
STATION = 5
MFL
0
-20
-40
-60
-80
-100
Result
1990
1995
2000
2005
2010
2015
2020
Date

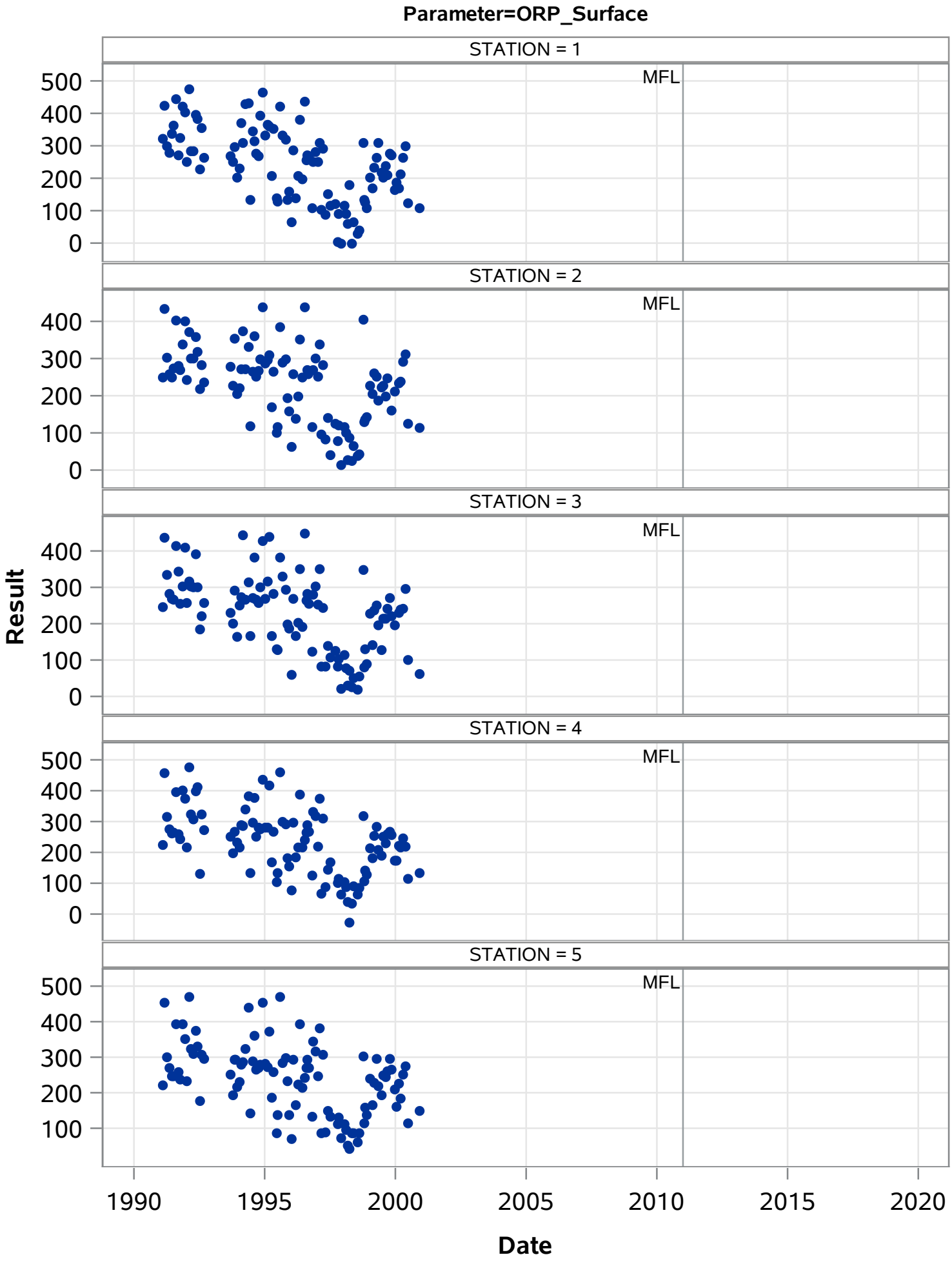

Parameter=OPD
STATION = 6
MFL
0
-20
-40
-60
-80
-100
STATION = 7
MFL
-20
-60
-100
STATION = 8
MFL
-20
-60
-100
STATION = 9
MFL
-20
-60
-100
Result
1990
1995
2000
2005
2010
2015
2020
Date

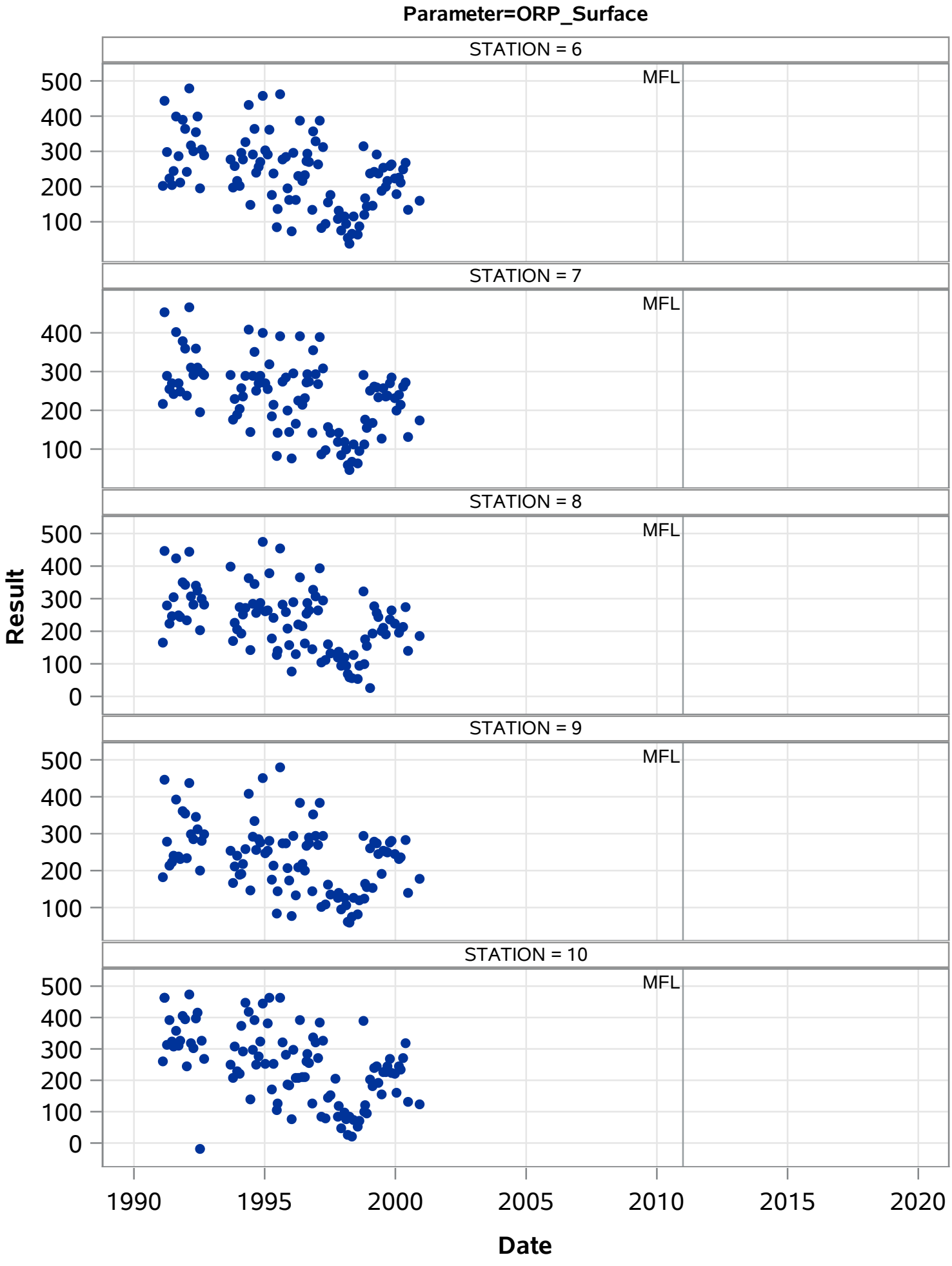

Parameter=ORP_Bottom
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
400
300
200
100
0
-100
1990
1995
2000
2005
2010
2015
2020
Date

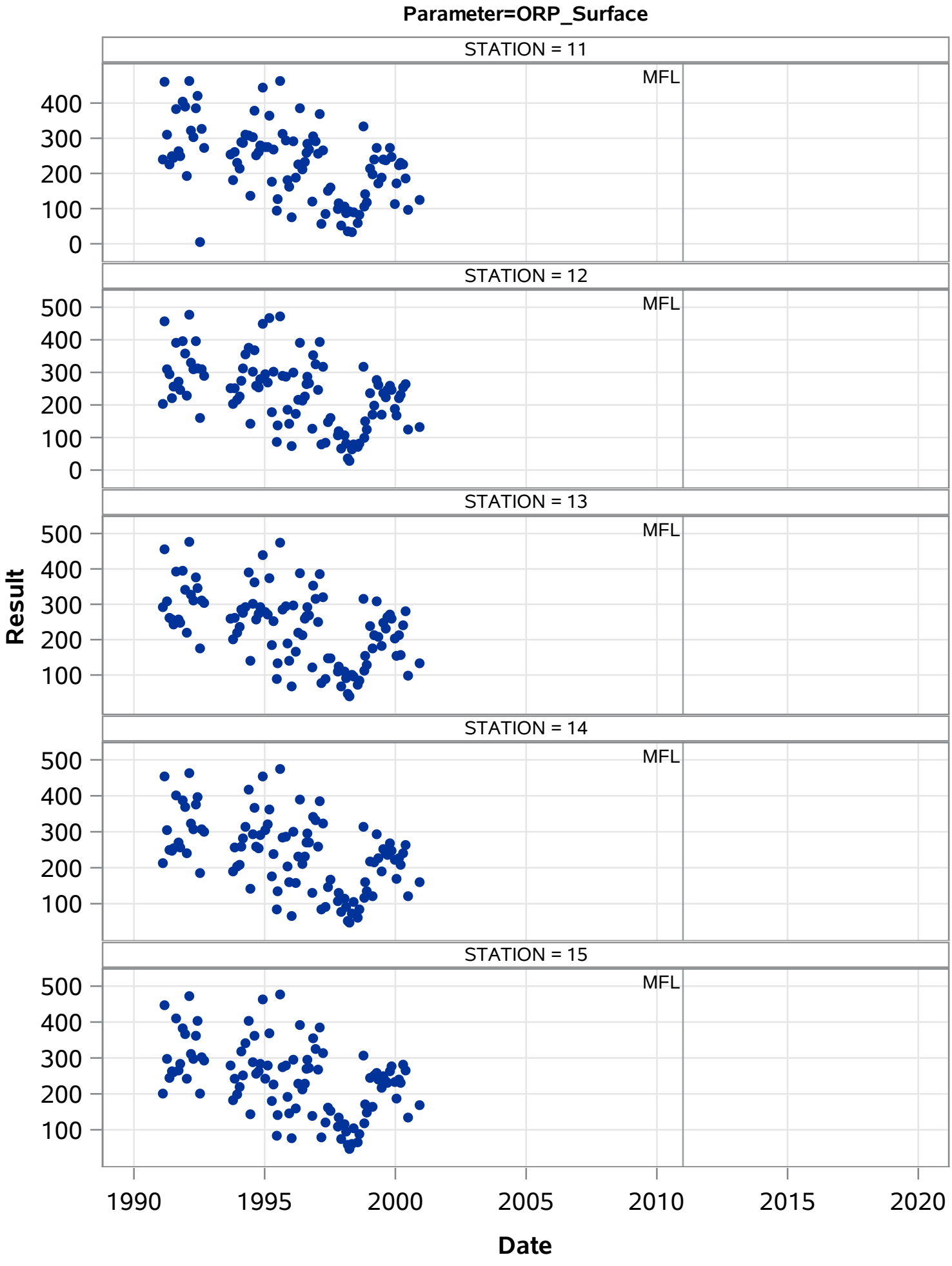

Parameter=ORP_Bottom
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
600
500
400
300
200
100
0
1990
1995
2000
2005
2010
2015
2020

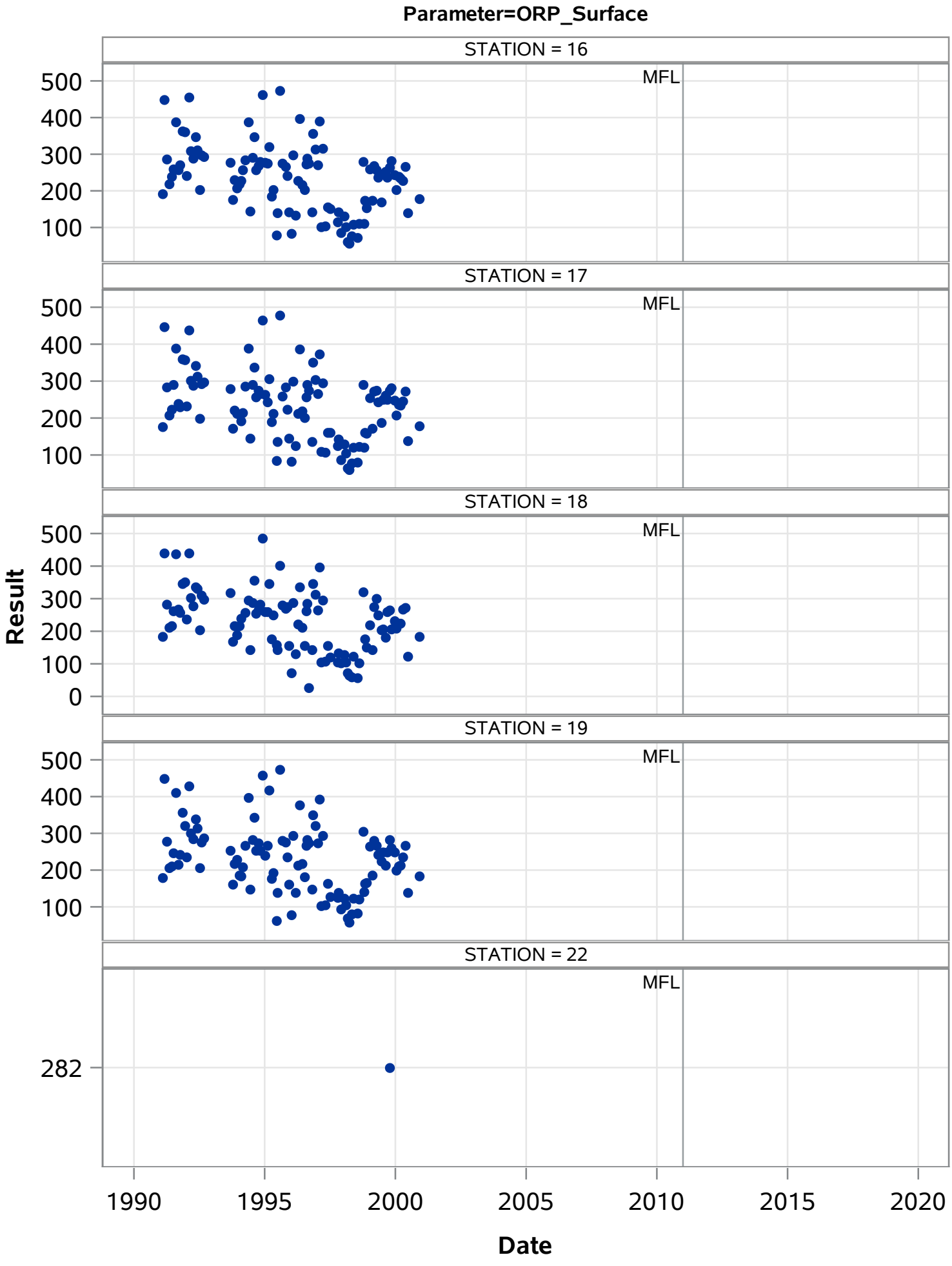

Parameter=ORP_Bottom
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
400
200
0
300
100
500
-100
1990
1995
2000
2005
2010
2015
2020

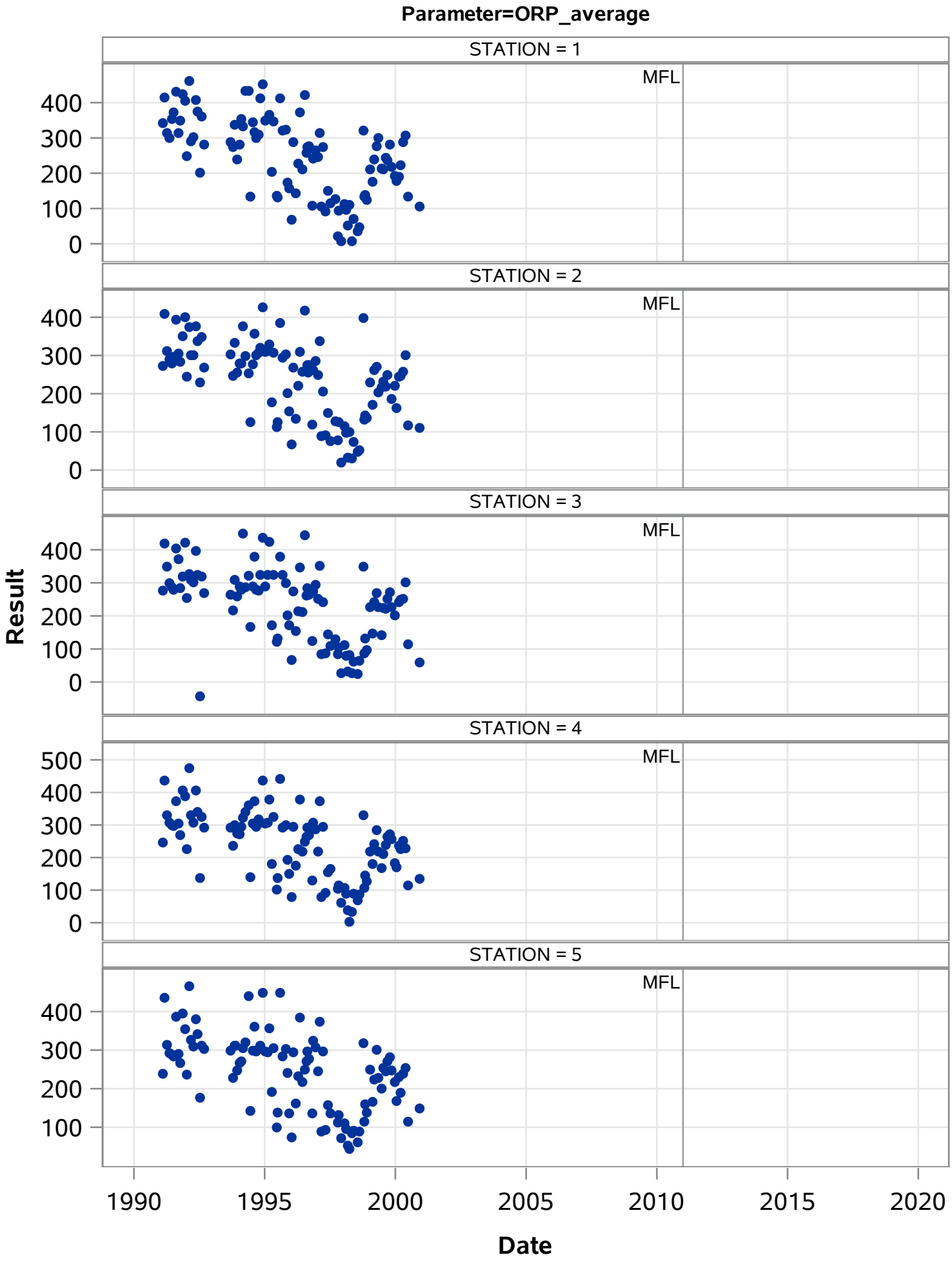

Parameter=ORP_Bottom
STATION = 16
MFL
400
300
200
100
STATION = 17
MFL
400
300
200
100
STATION = 18
MFL
500
400
300
200
100
STATION = 19
MFL
600
400
200
0
STATION = 22
MFL
17
Result
1990
1995
2000
2005
2010
2015
2020
Date

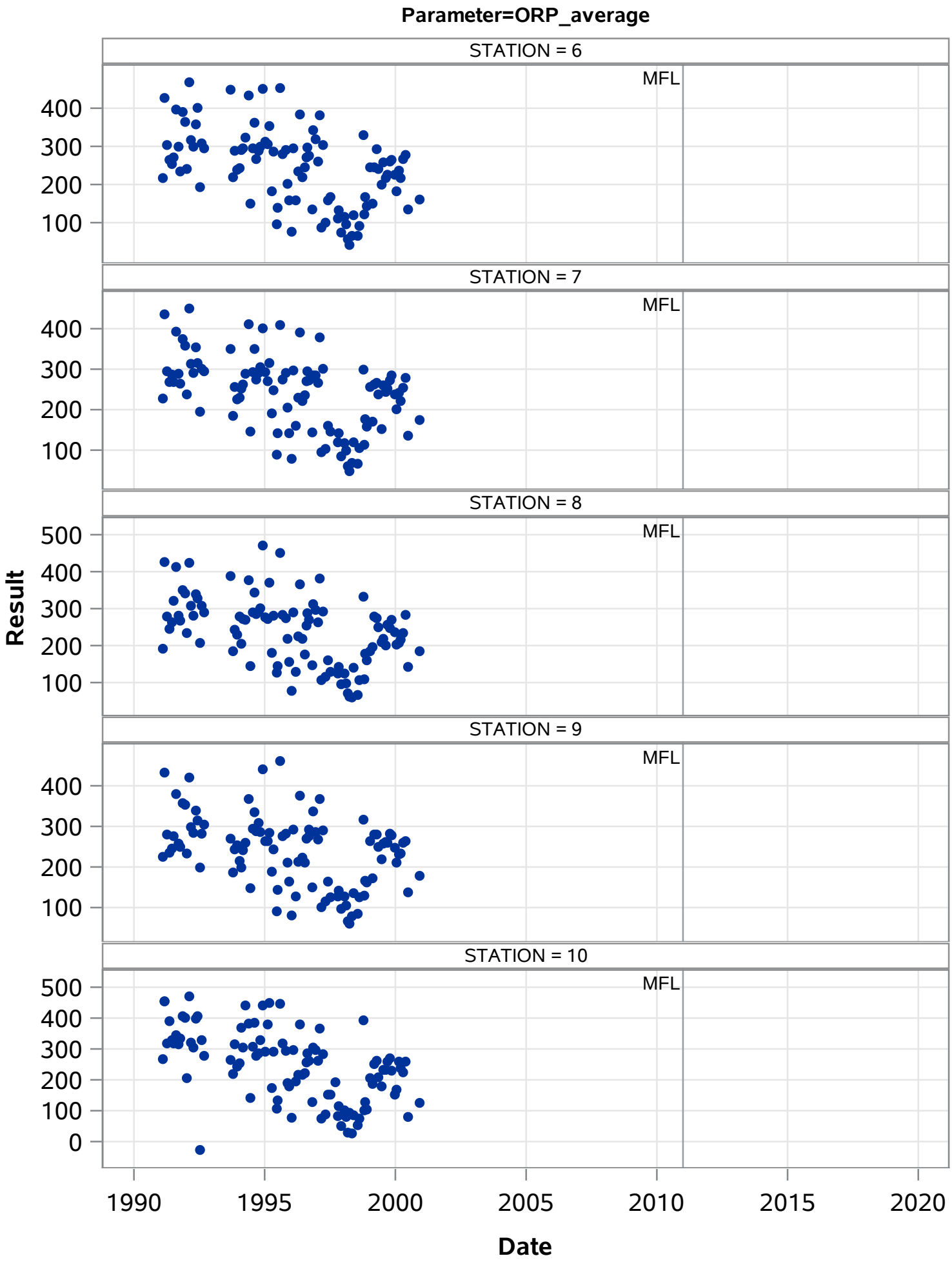

Parameter=ORP_Surface
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

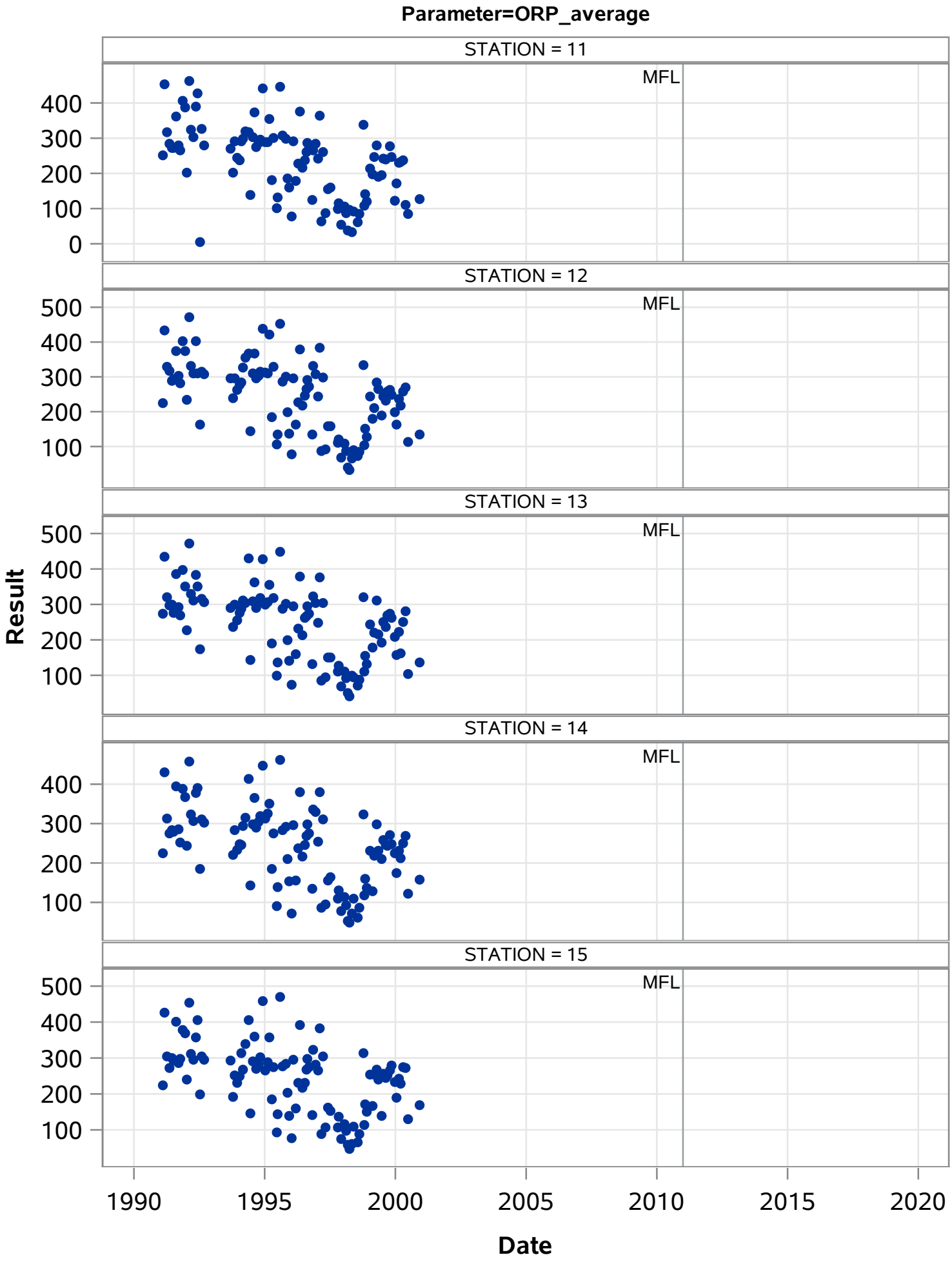

Parameter=ORP_Surface
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
500
400
300
200
100
0
1990
1995
2000
2005
2010
2015
2020

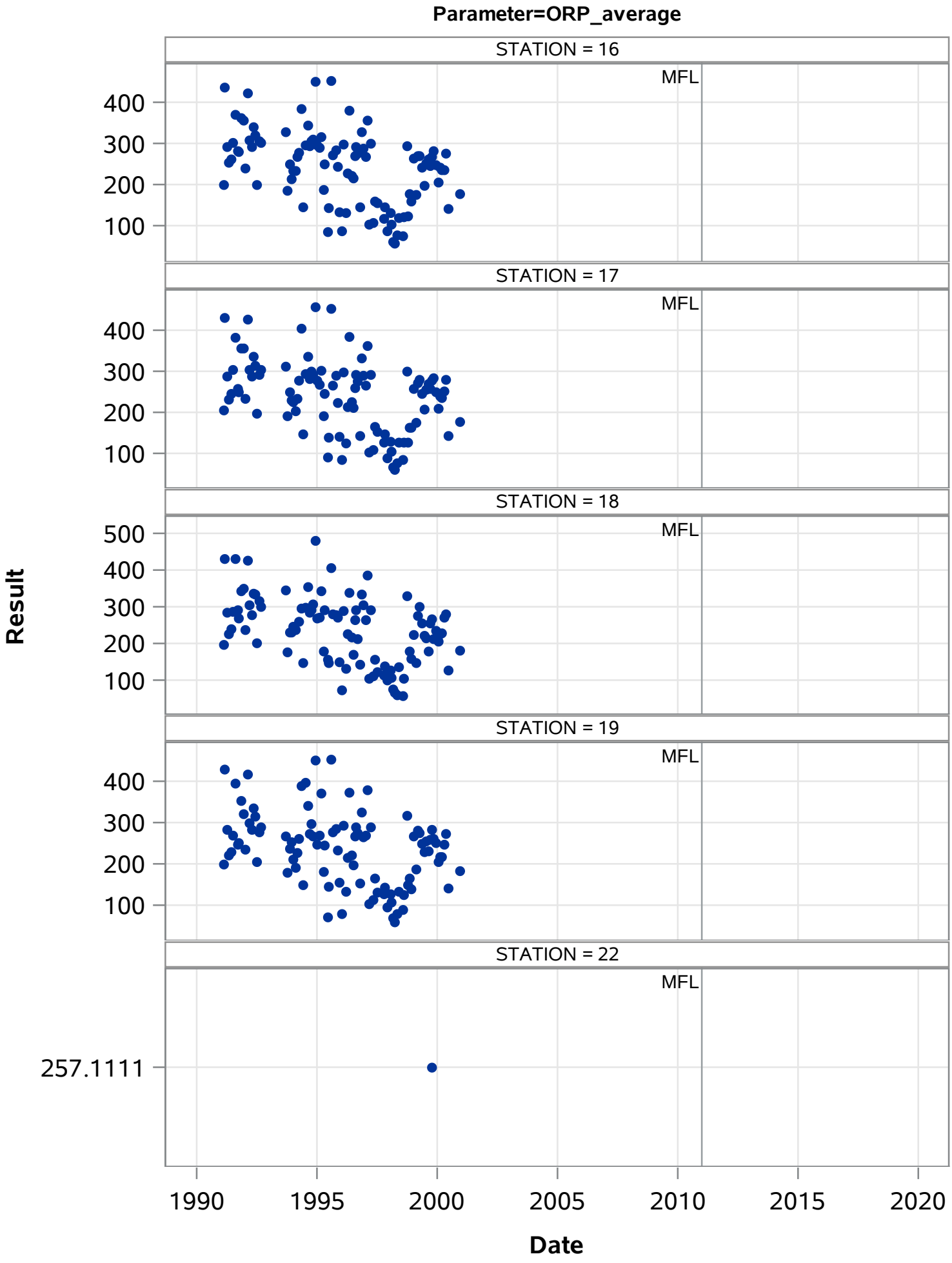

Parameter=ORP_Surface
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

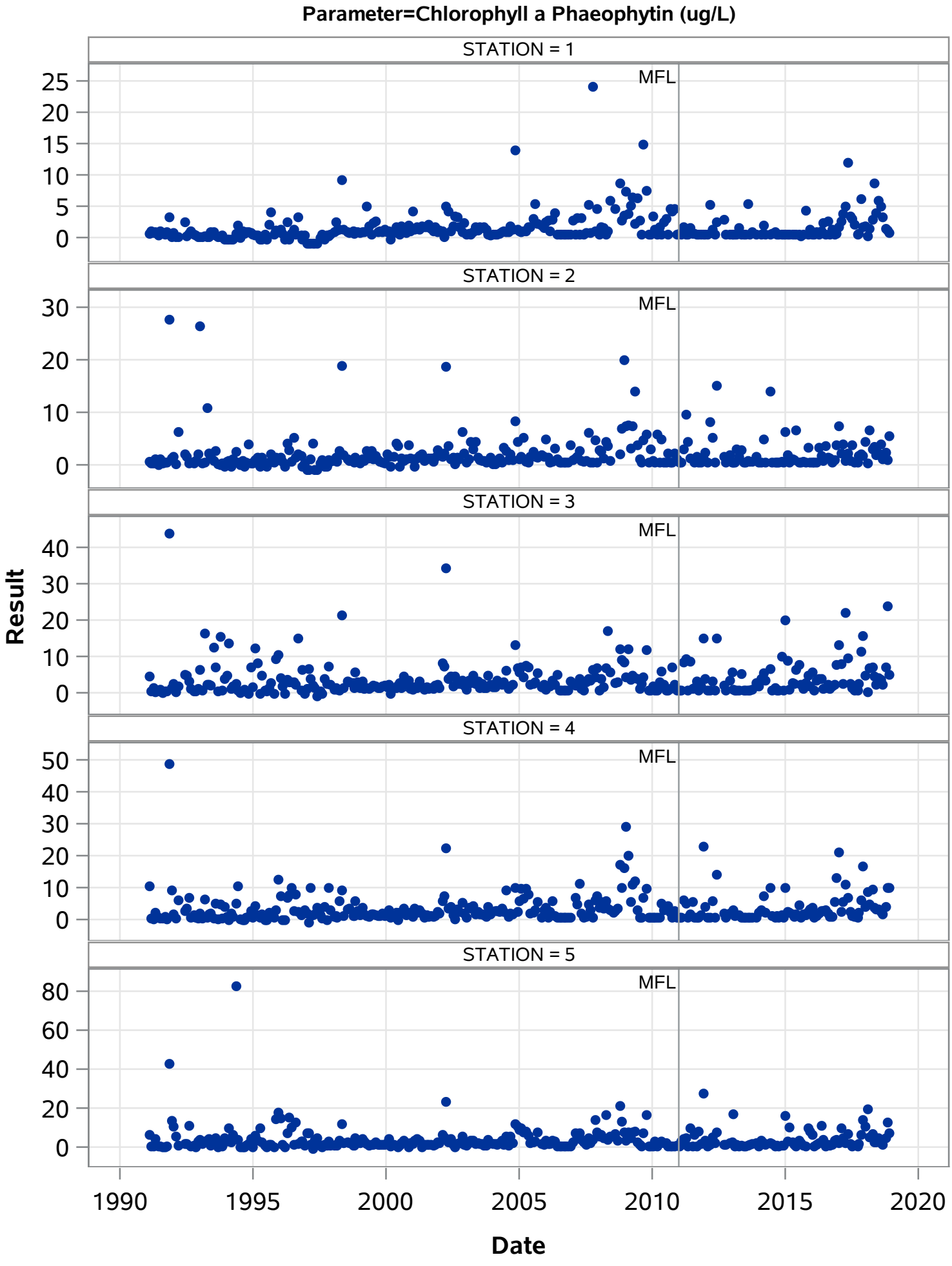

Parameter=ORP_Surface
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
500
400
300
200
100
0
282
1990
1995
2000
2005
2010
2015
2020
Date

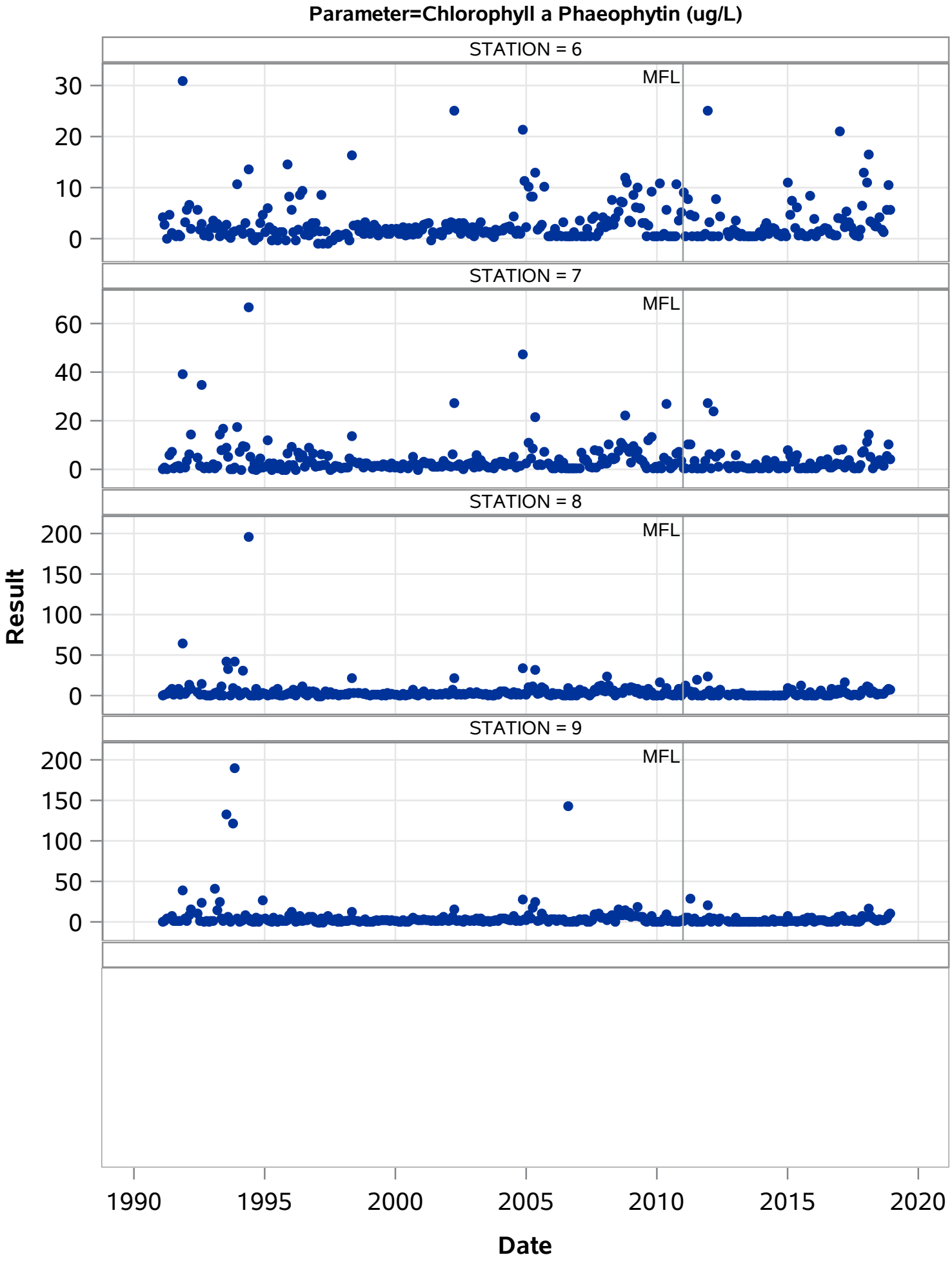

Parameter=ORP_average
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
0
100
200
300
400
500
1990
1995
2000
2005
2010
2015
2020

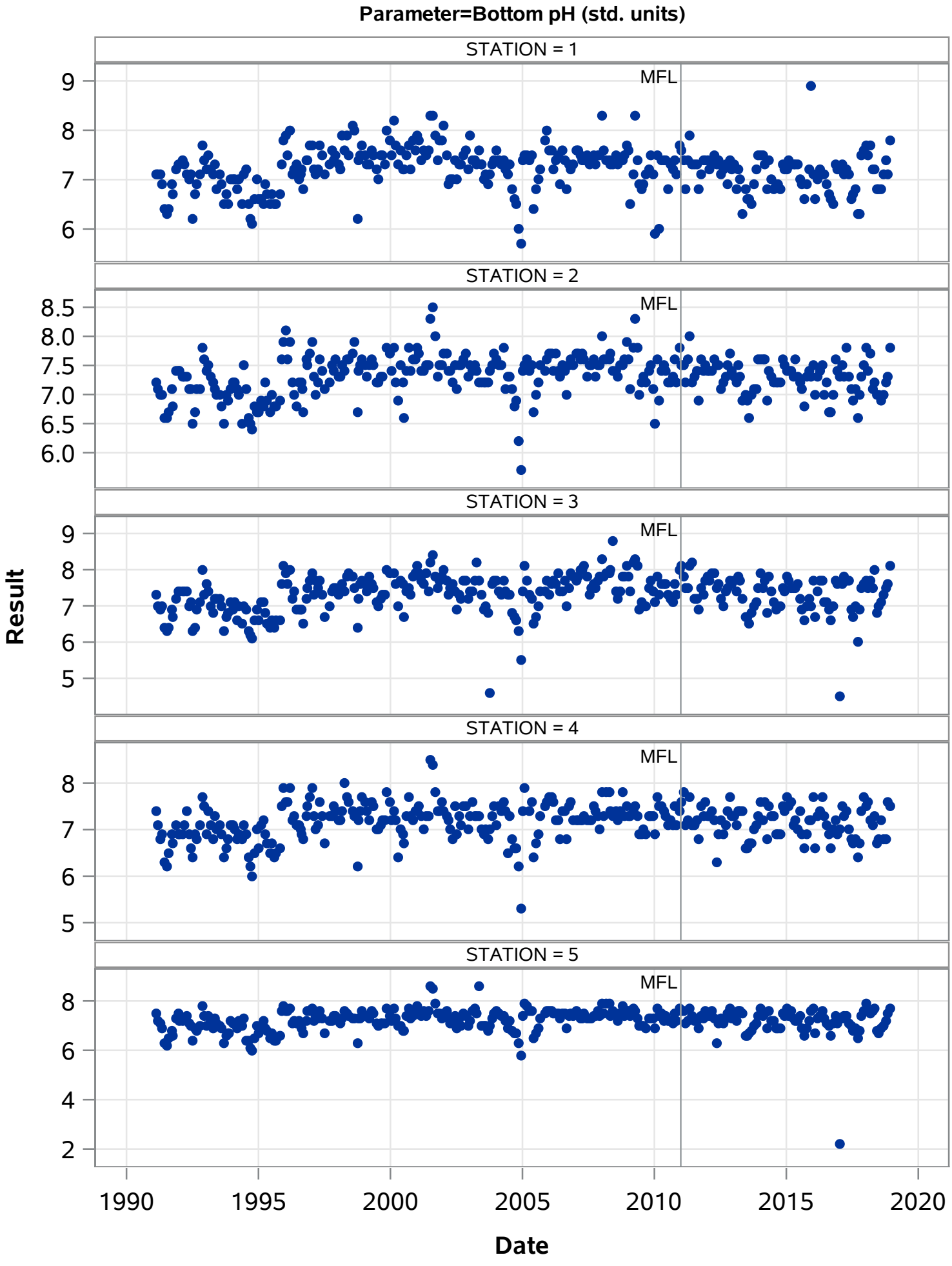

Parameter=ORP_average
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
100
200
300
400
500
0
1990
1995
2000
2005
2010
2015
2020

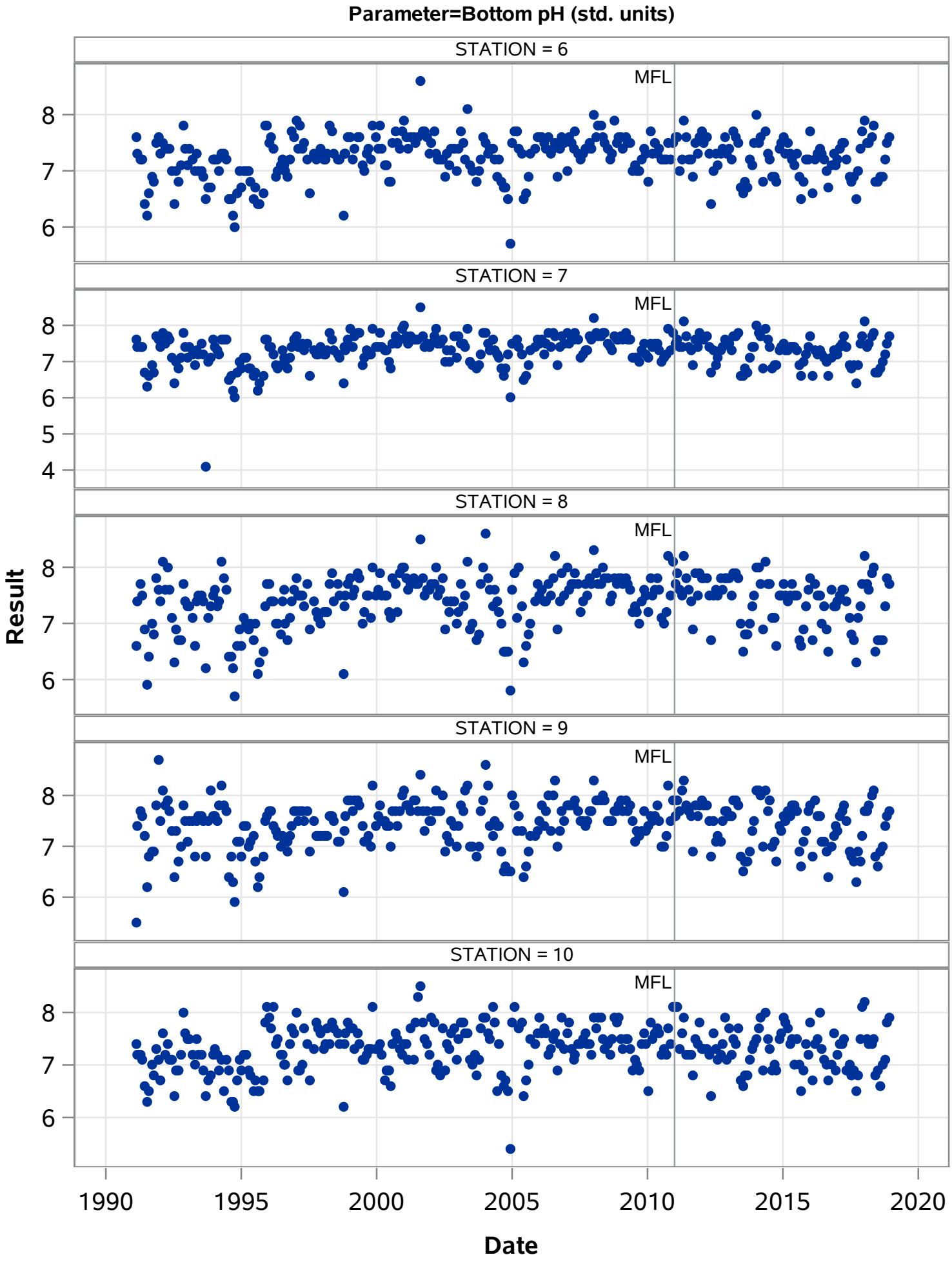

Parameter=ORP_average
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
0
100
200
300
400
500
1990
1995
2000
2005
2010
2015
2020

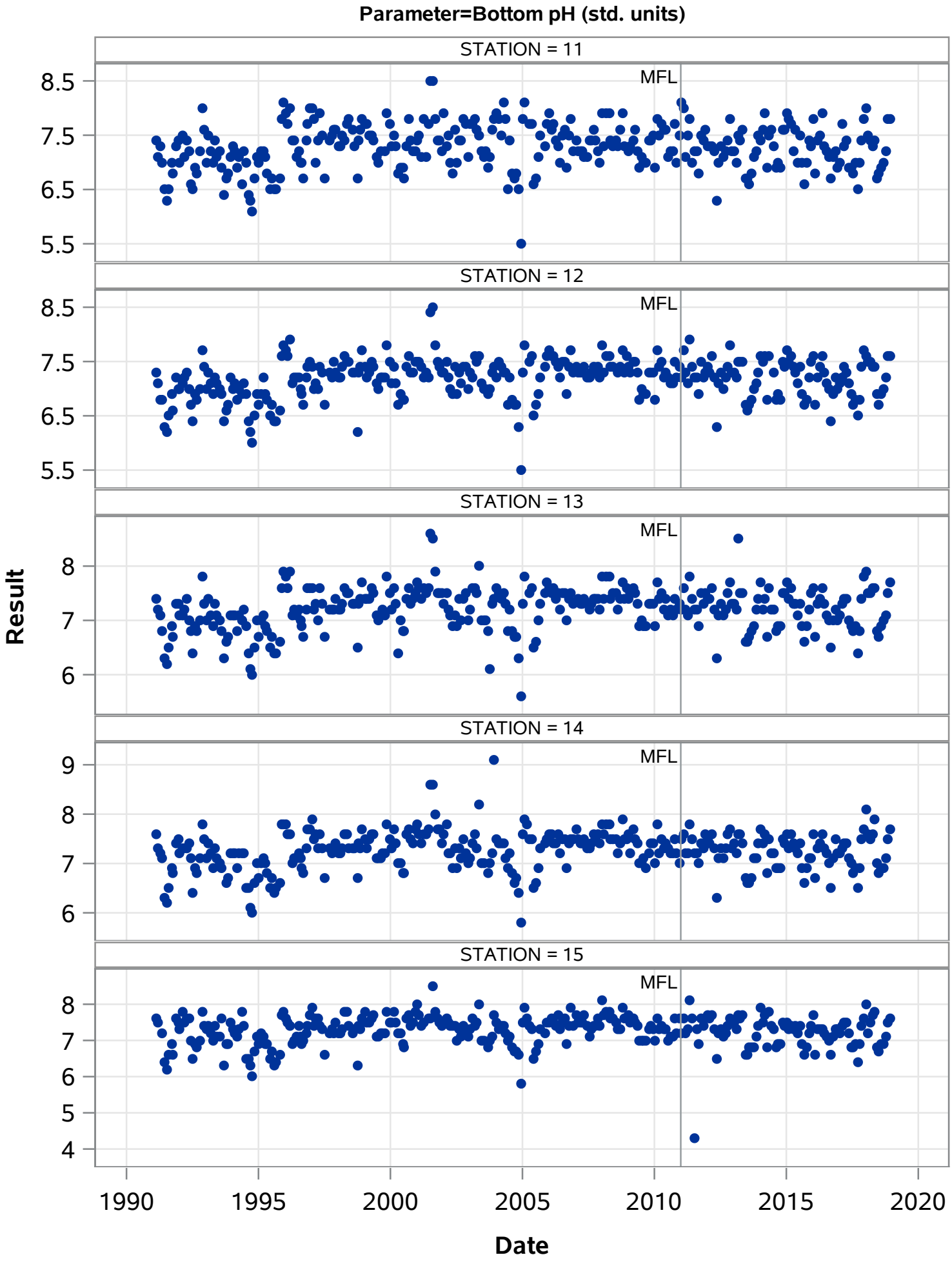

Parameter=ORP_average
STATION = 16
MFL
400
300
200
100
STATION = 17
MFL
400
300
200
100
STATION = 18
MFL
500
400
300
200
100
STATION = 19
MFL
400
300
200
100
STATION = 22
MFL
257.1111
Result
1990
1995
2000
2005
2010
2015
2020
Date

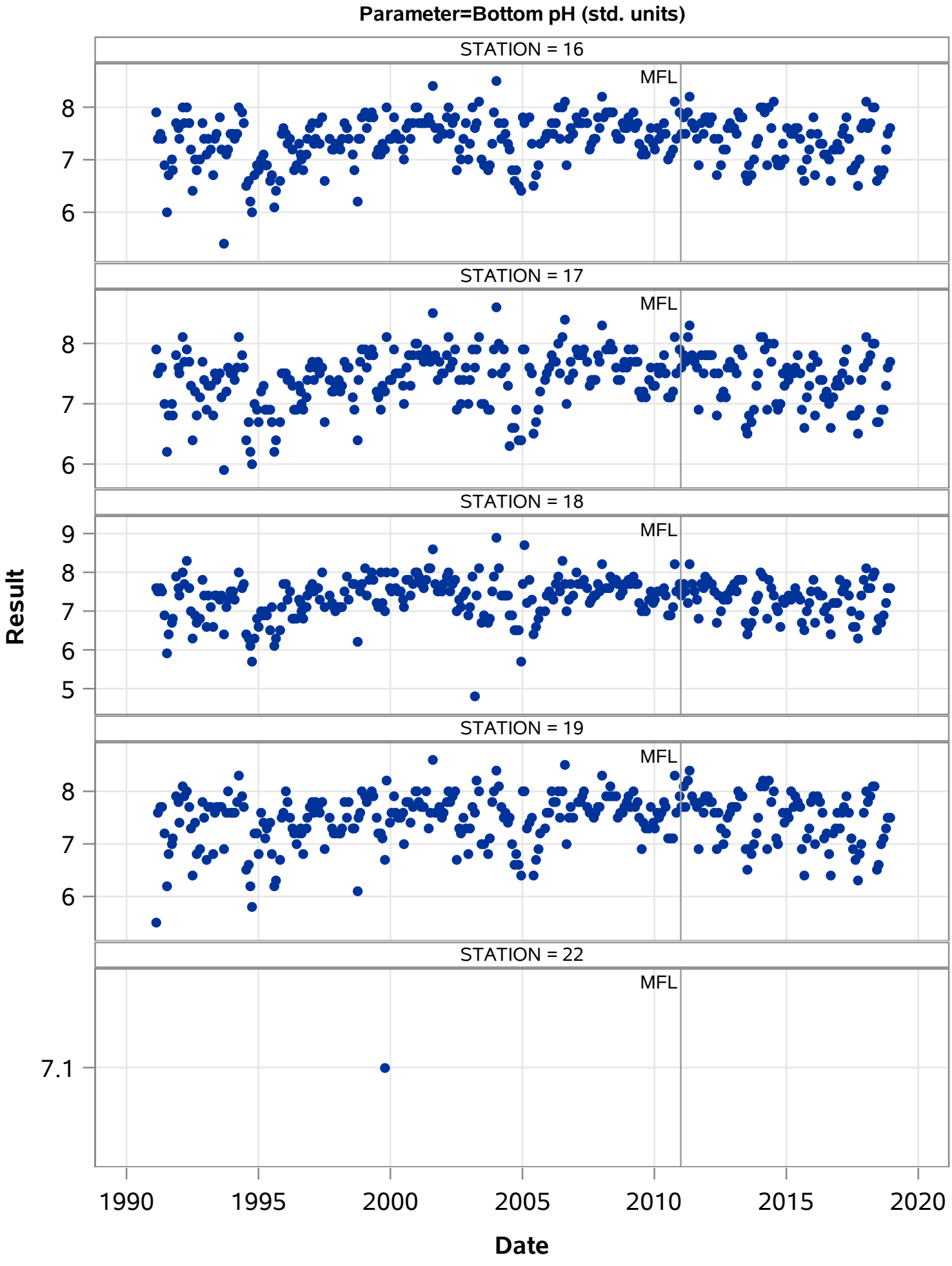

Parameter=Chlorophyll a Phaeophytin (ug/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

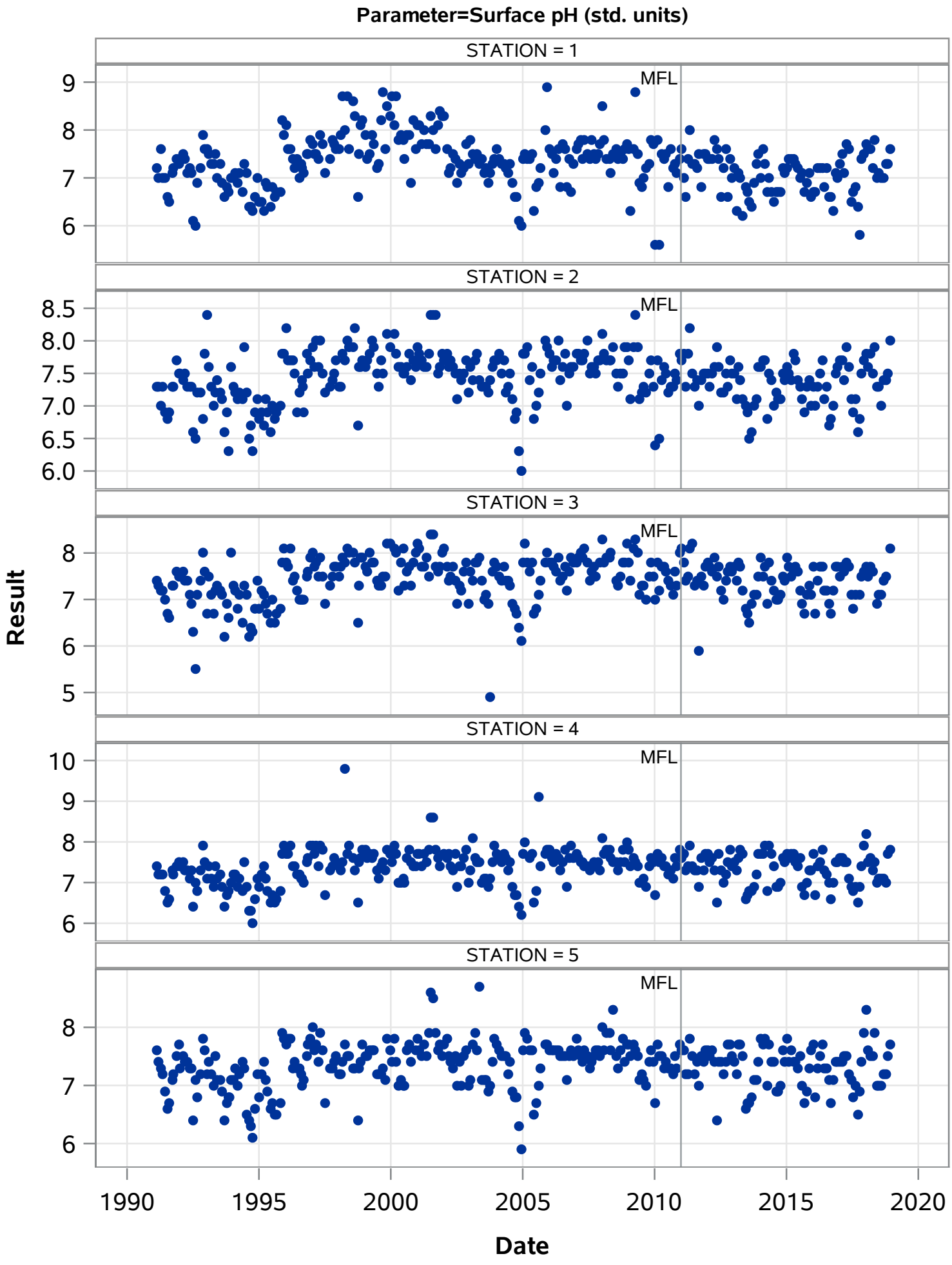

Parameter=Chlorophyll a Phaeophytin (ug/L)
STATION = 6
MFL
30
20
10
0
STATION = 7
MFL
60
40
20
0
STATION = 8
MFL
200
150
100
50
0
STATION = 9
MFL
200
150
100
50
0
Result
1990
1995
2000
2005
2010
2015
2020
Date

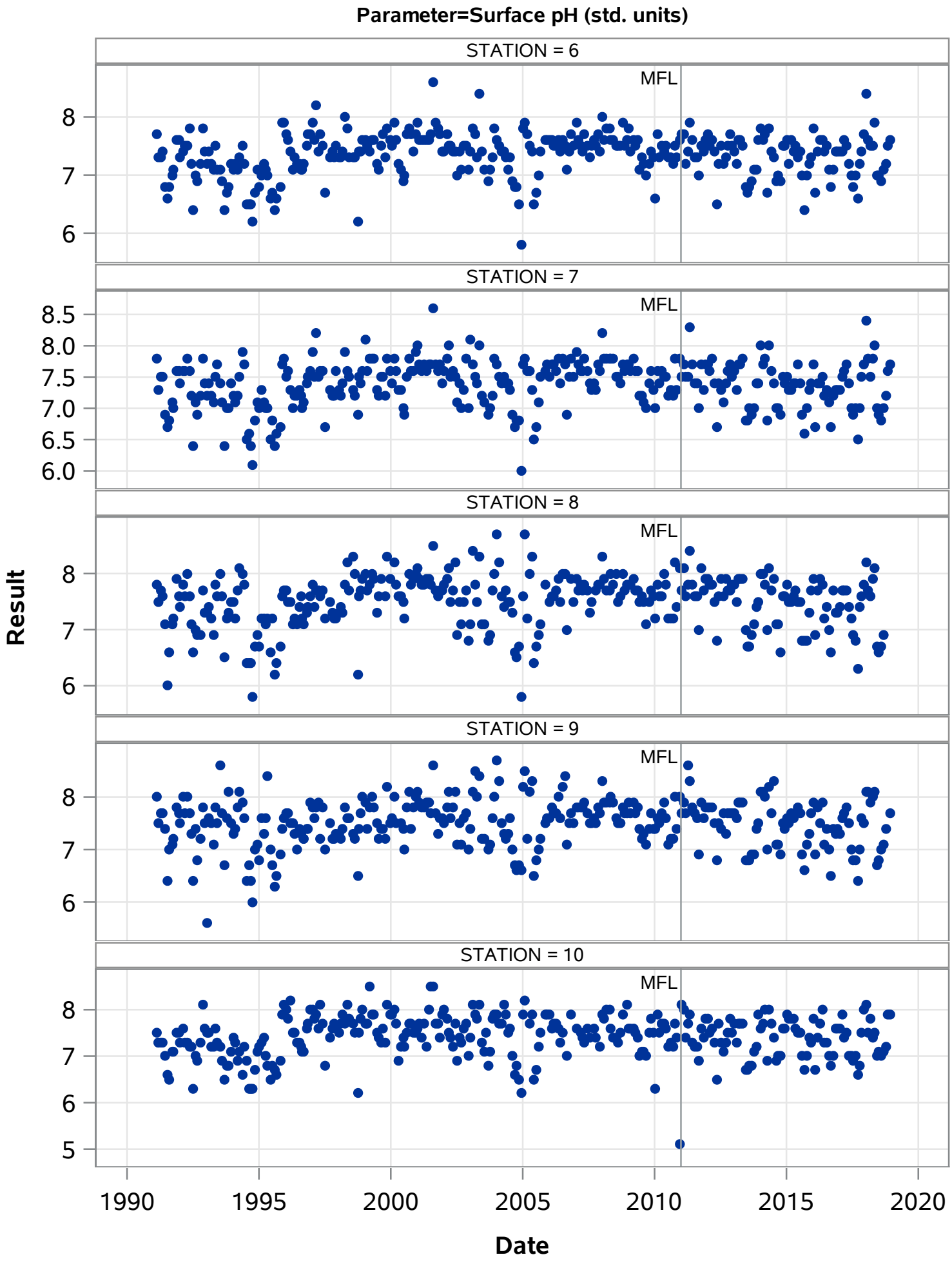

Parameter=Bottom pH (std. units)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

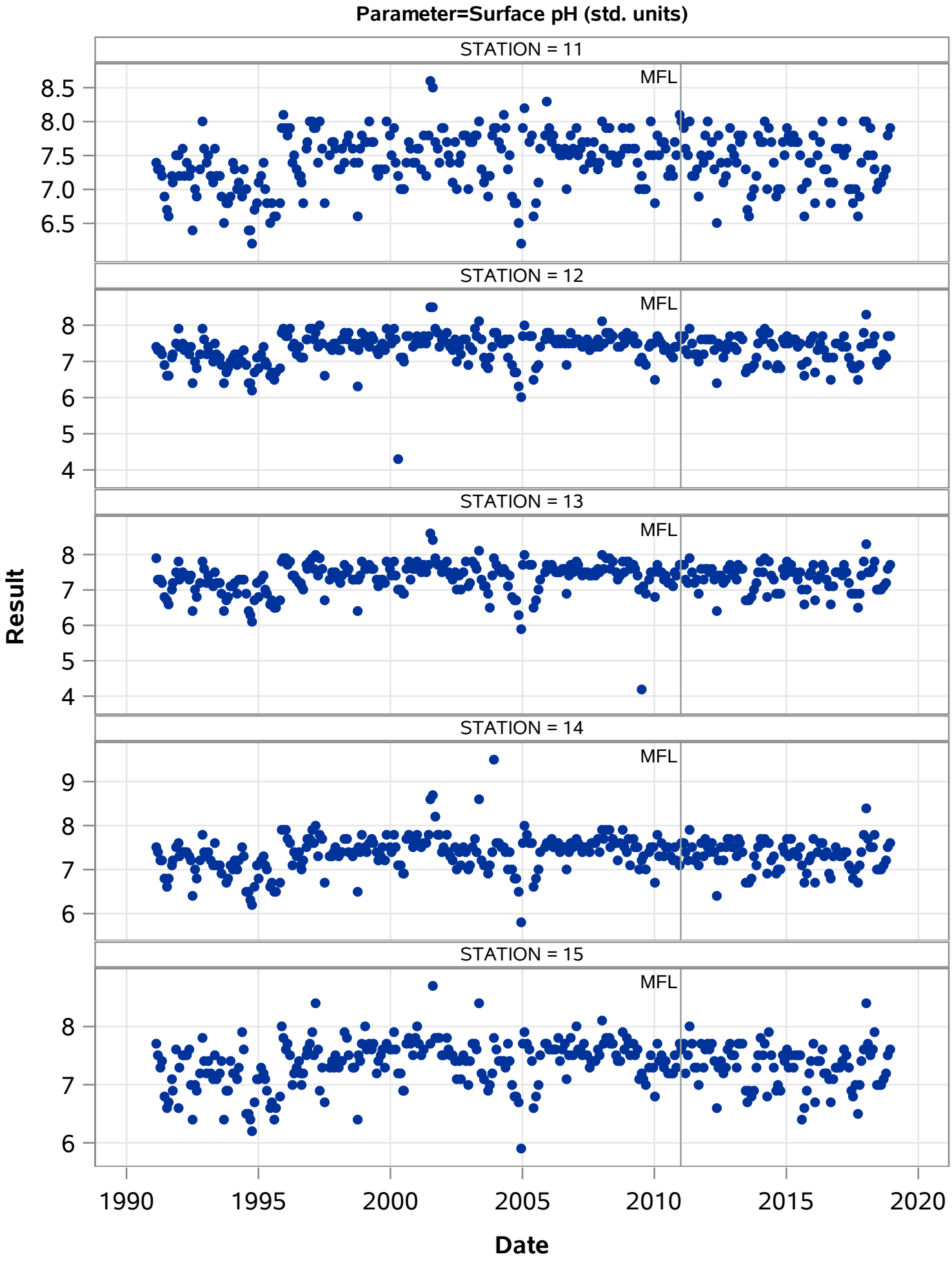

Parameter=Bottom pH (std. units)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

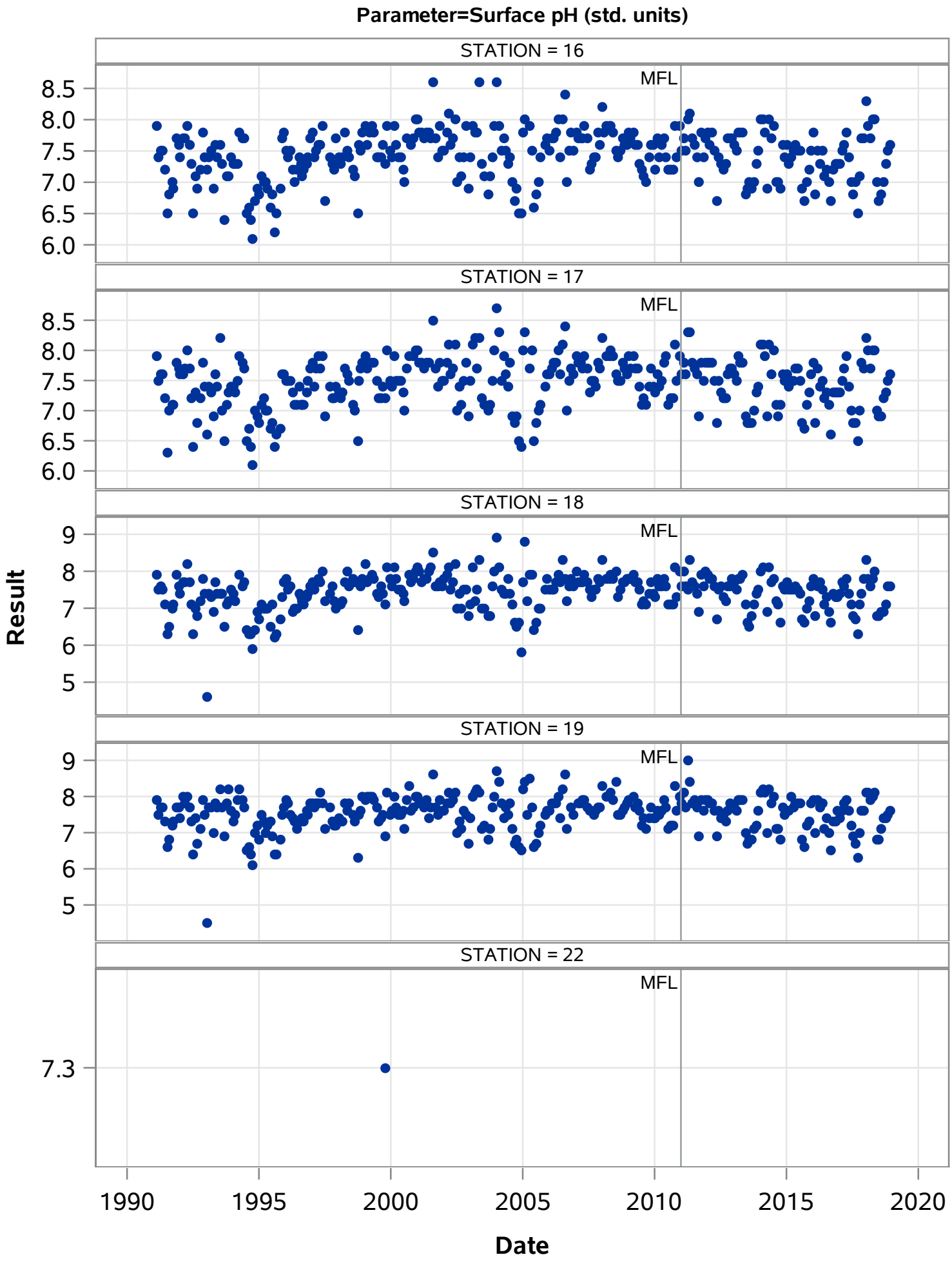

Parameter=Bottom pH (std. units)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

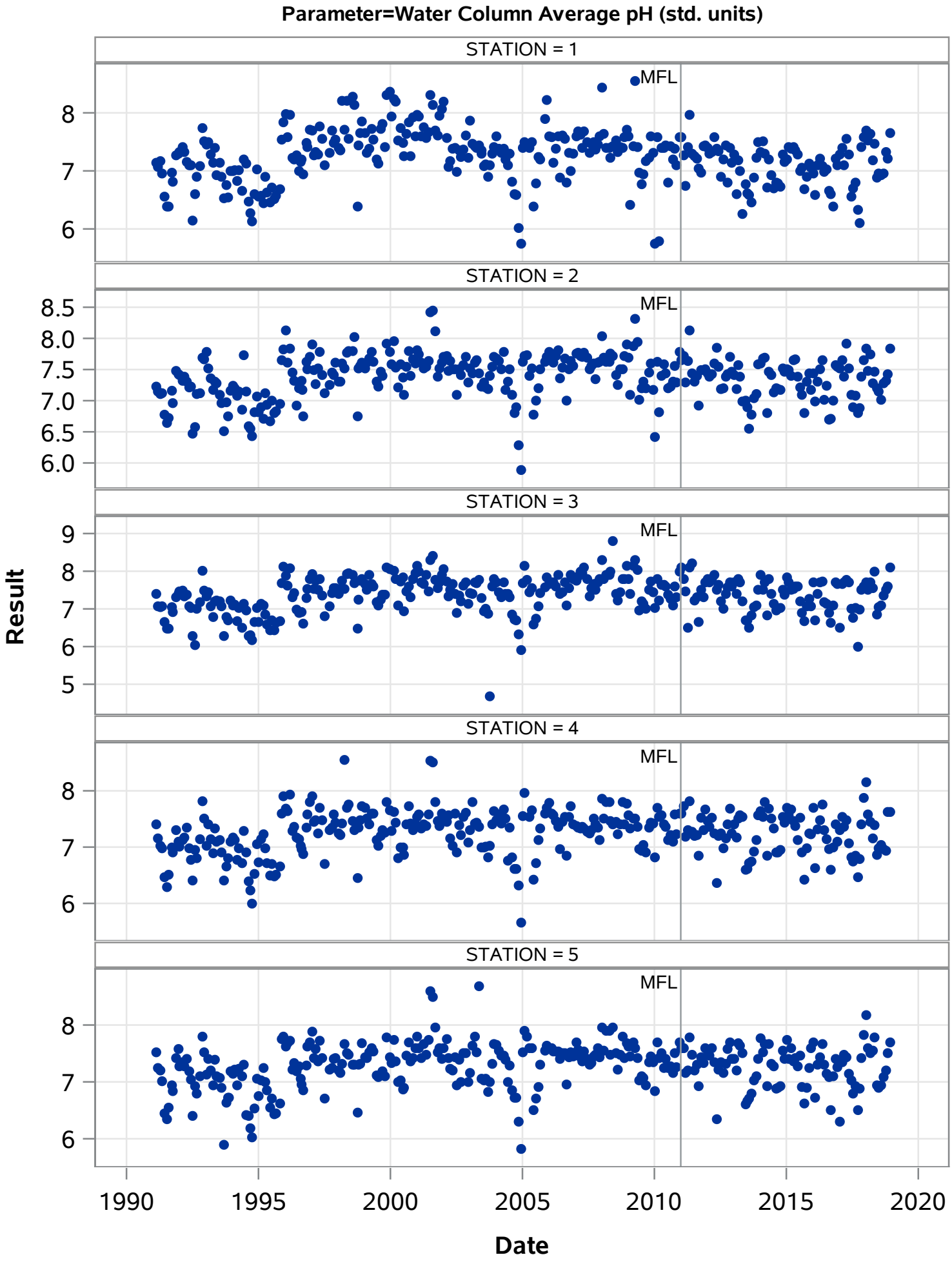

Parameter=Bottom pH (std. units)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020
5
6
7
8
9
7.1

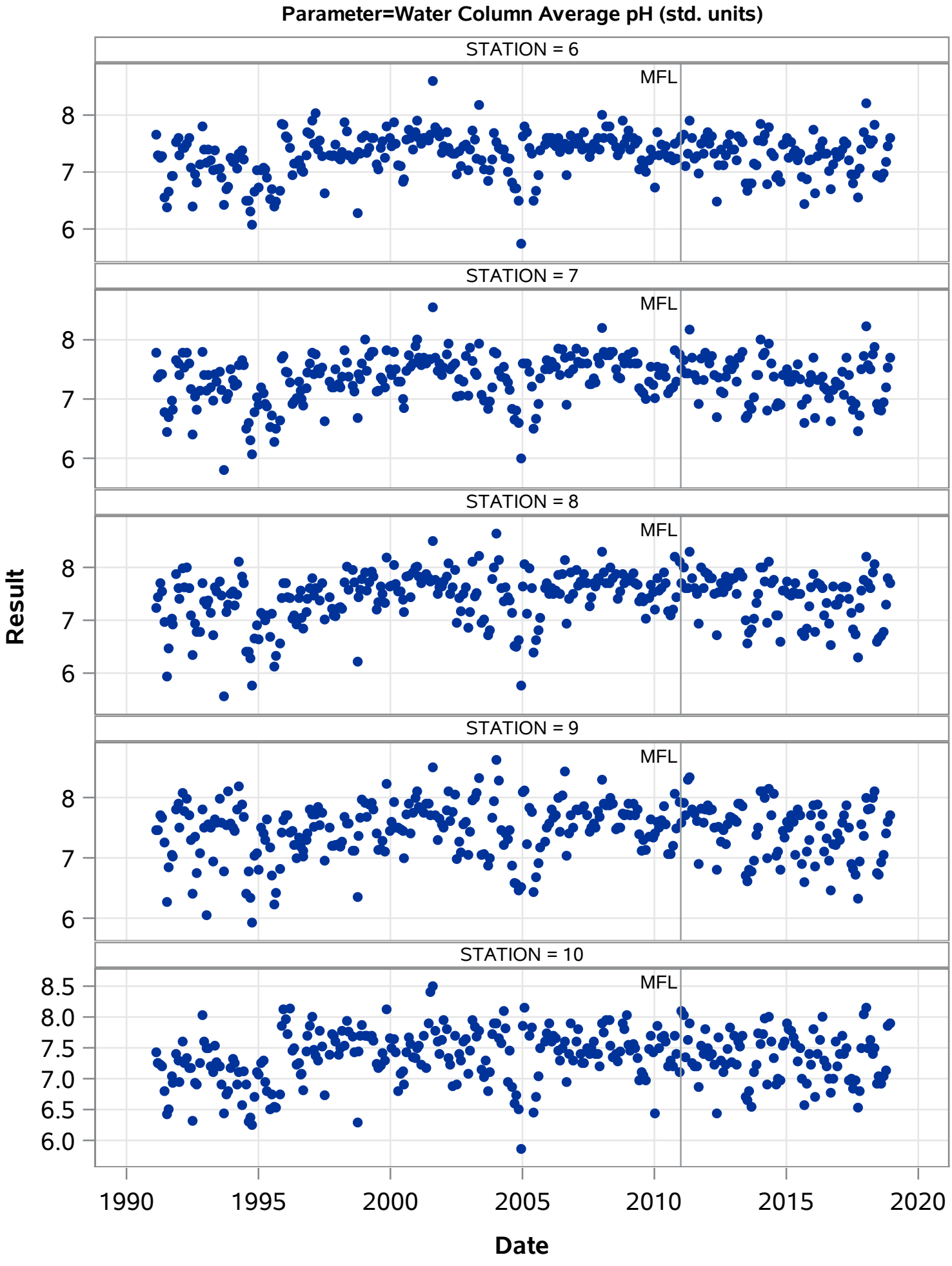

Parameter=Surface pH (std. units)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

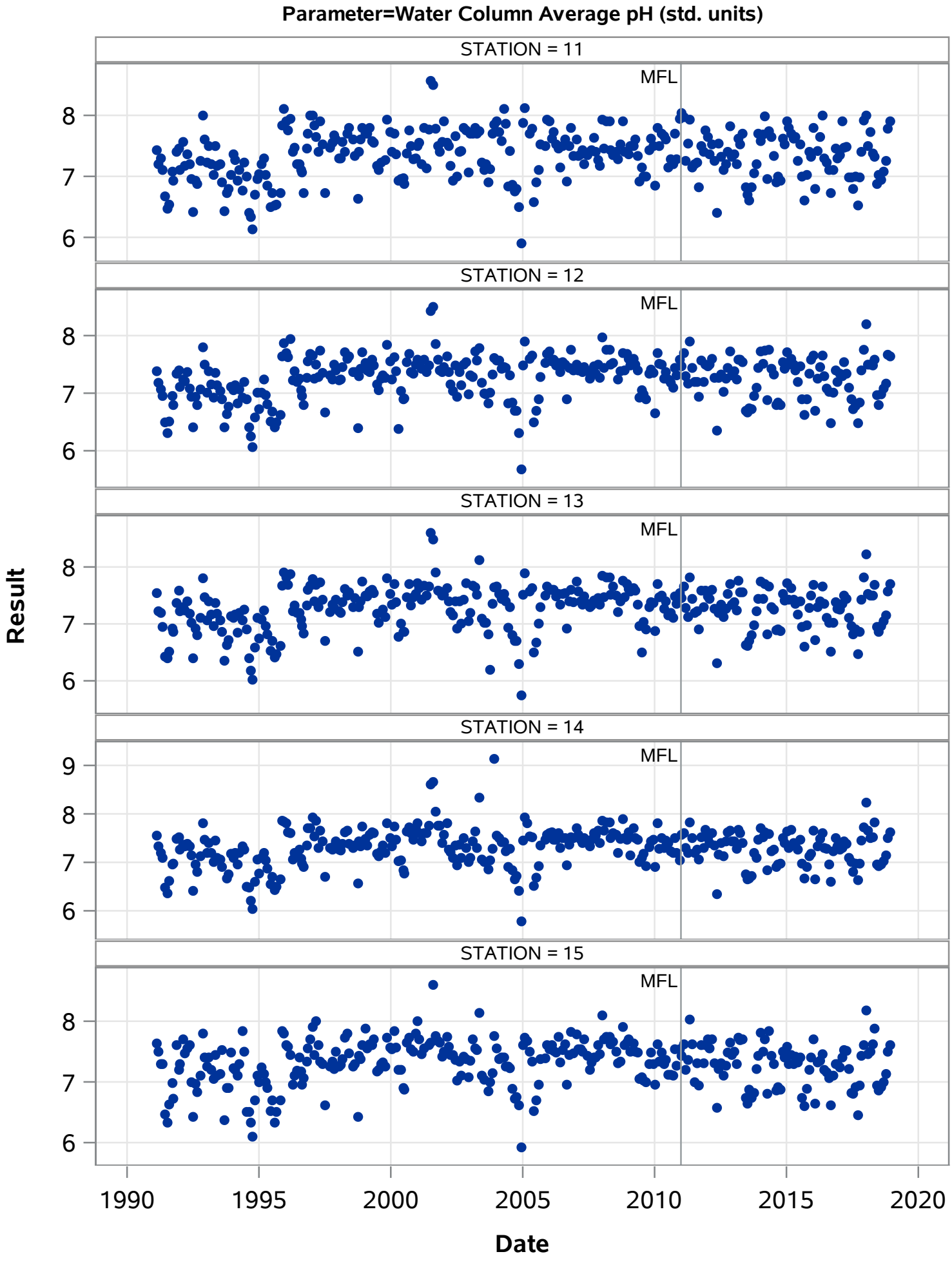

Parameter=Surface pH (std. units)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

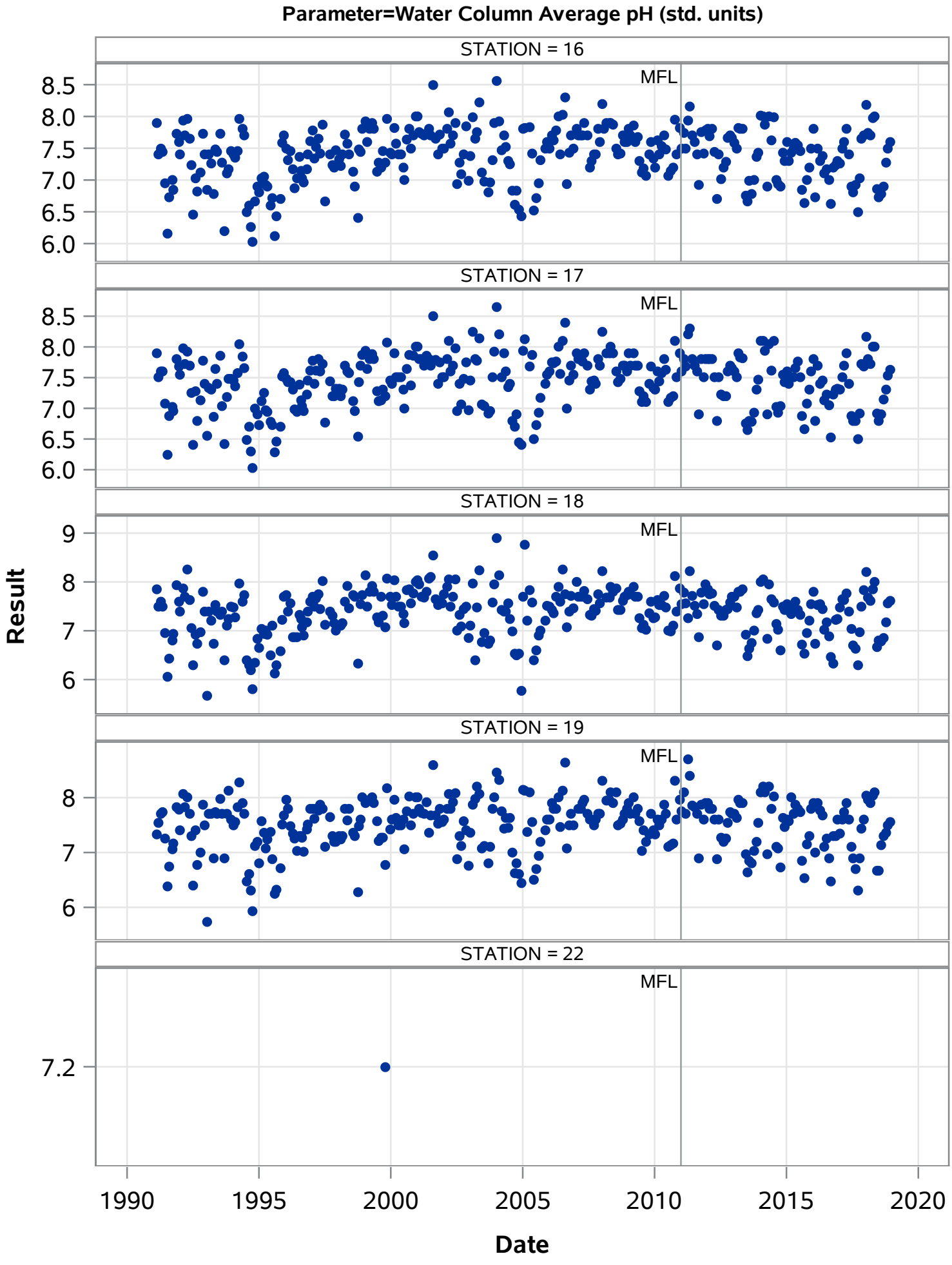

Parameter=Surface pH (std. units)
STATION = 11
MFL
8.5
8.0
7.5
7.0
6.5
STATION = 12
MFL
8
7
6
5
4
STATION = 13
MFL
8
7
6
5
4
STATION = 14
MFL
9
8
7
6
STATION = 15
MFL
8
7
6
Result
1990
1995
2000
2005
2010
2015
2020
Date

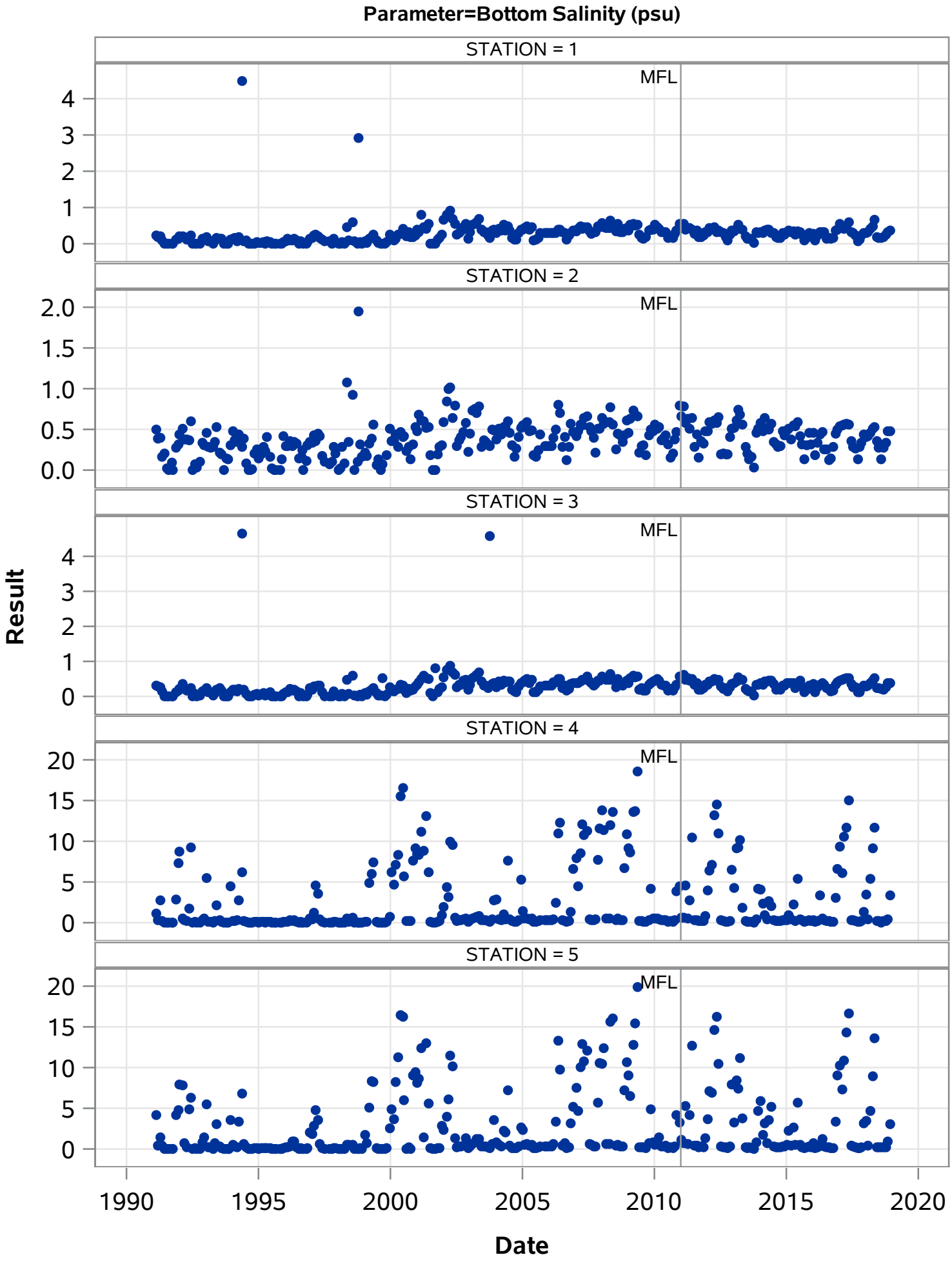

Parameter=Surface pH (std. units)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
Date
8.5
8.0
7.5
7.0
6.5
6.0
9
8
7
6
5
7.3
1990
1995
2000
2005
2010
2015
2020

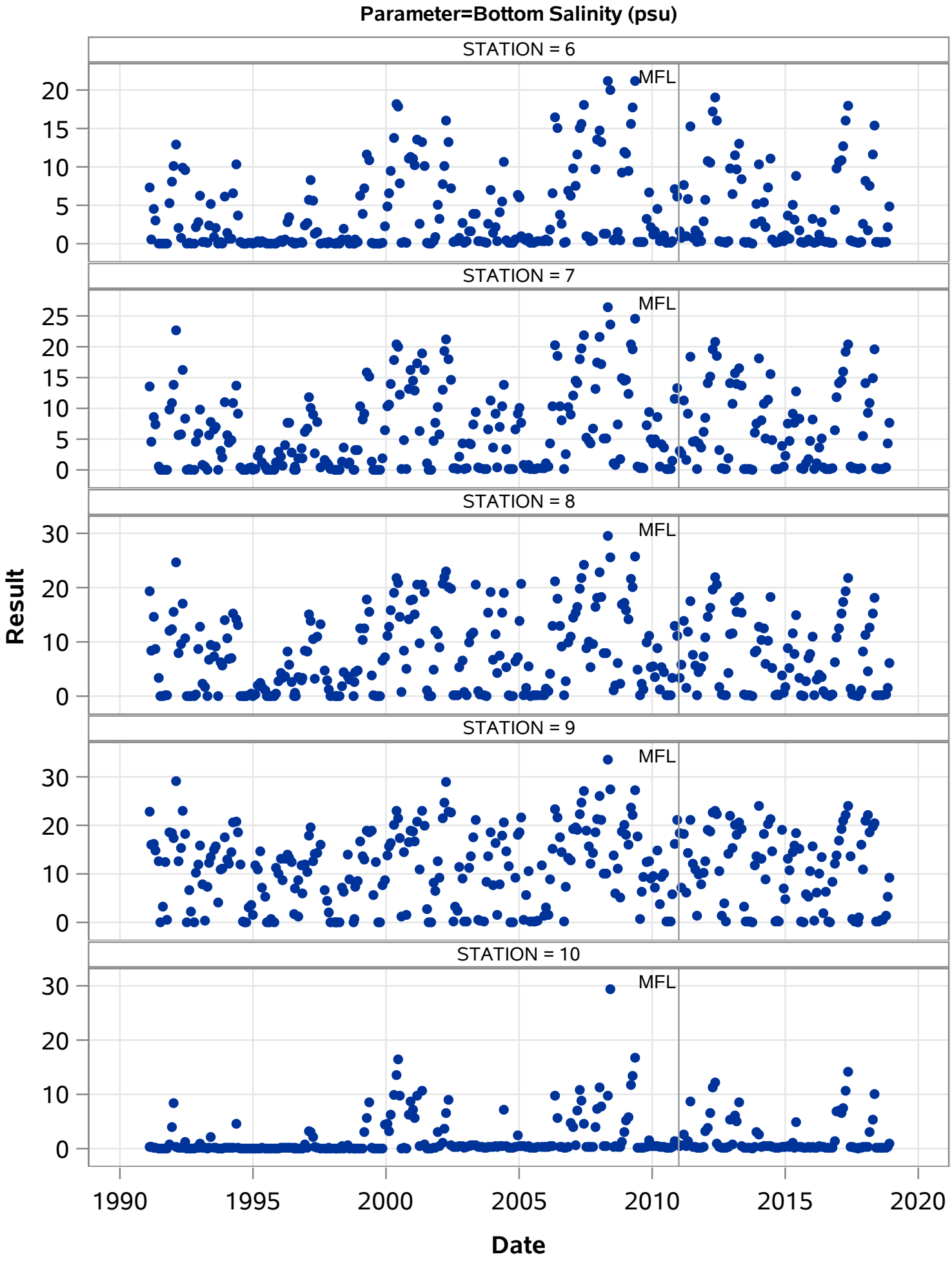

Parameter=Water Column Average pH (std. units)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

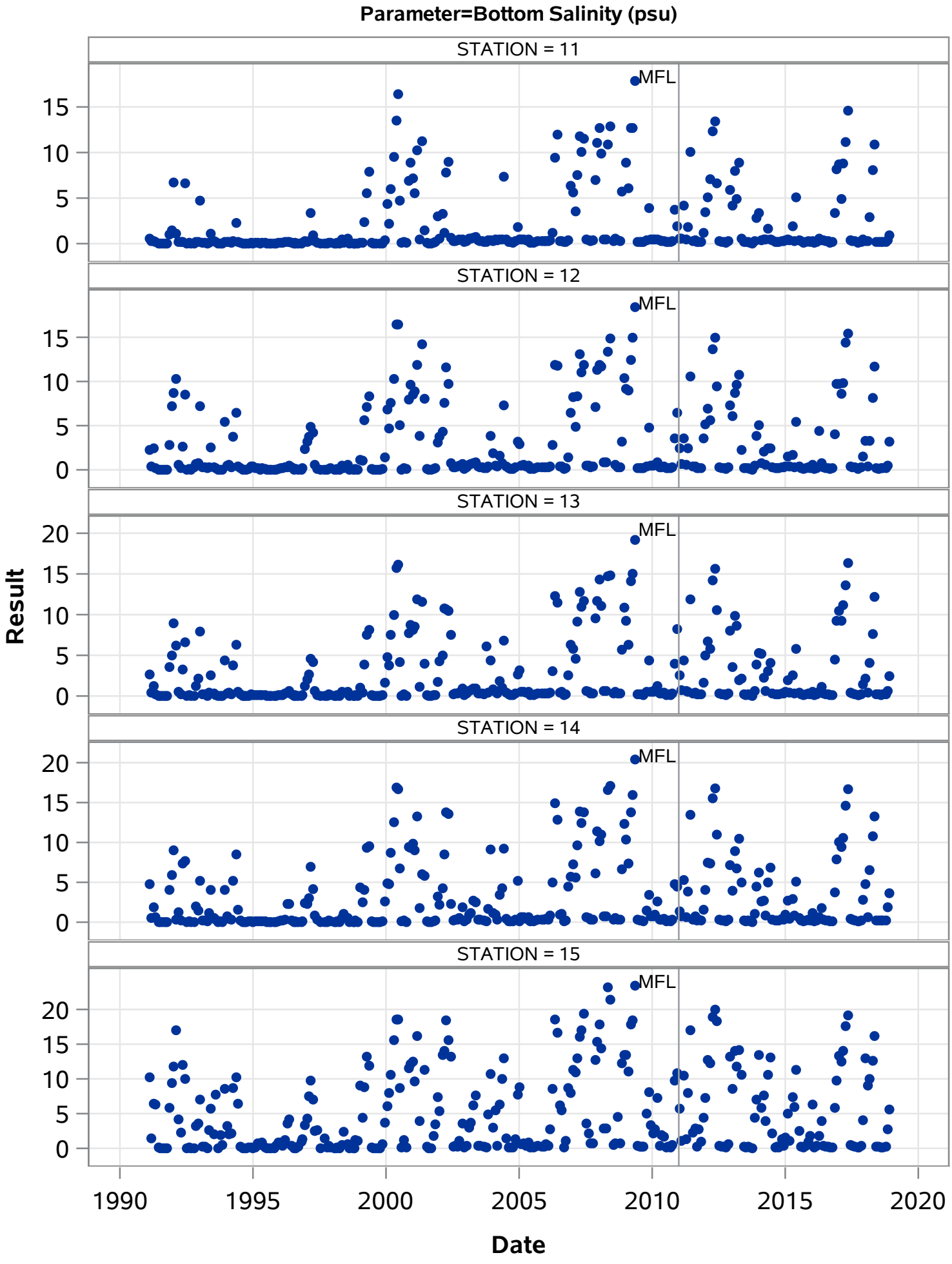

Parameter=Water Column Average pH (std. units)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
8
7
6
8.5
8.0
7.5
7.0
6.5
6.0
1990
1995
2000
2005
2010
2015
2020
Date

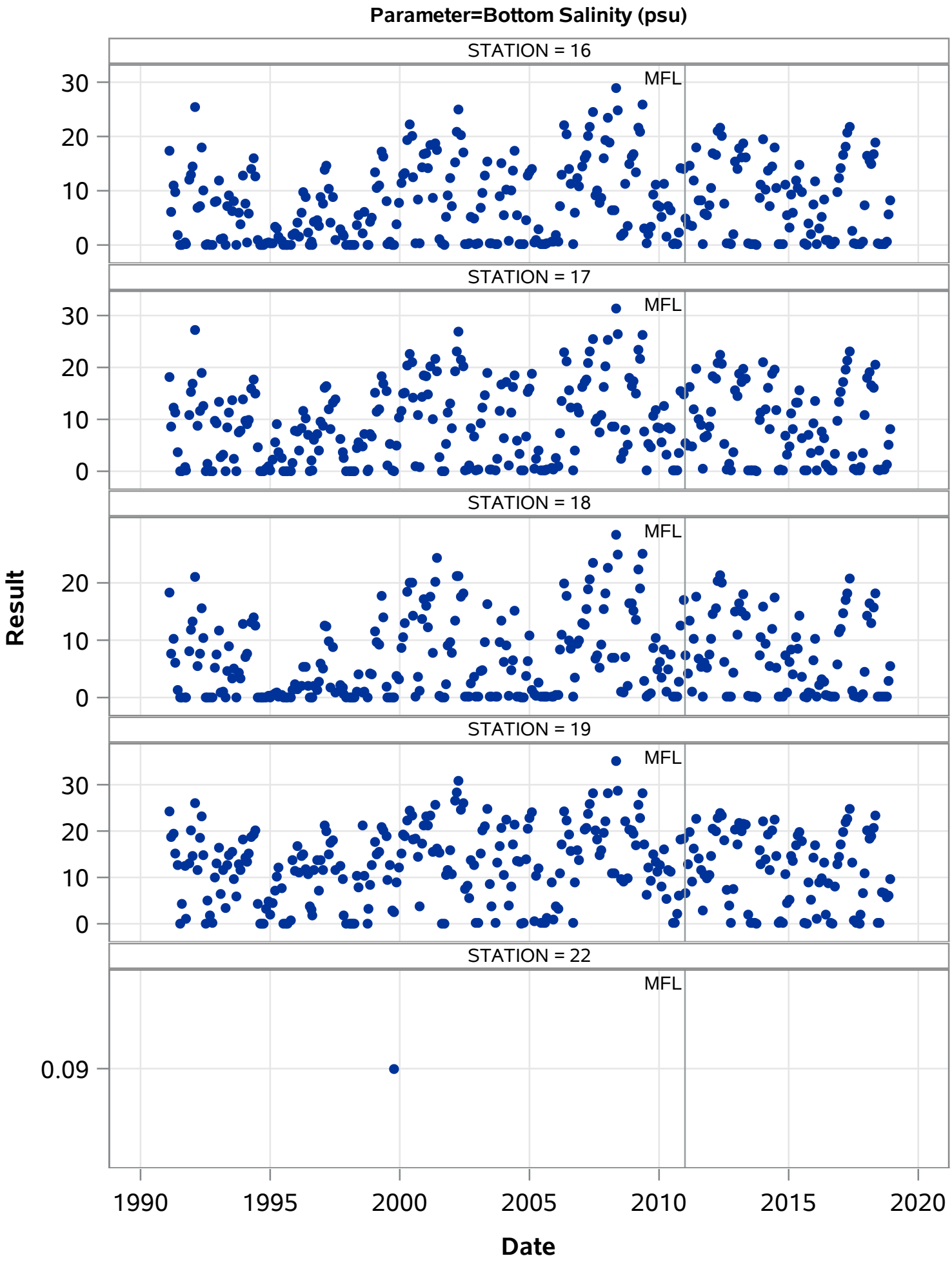

Parameter=Water Column Average pH (std. units)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020
6
7
8
9

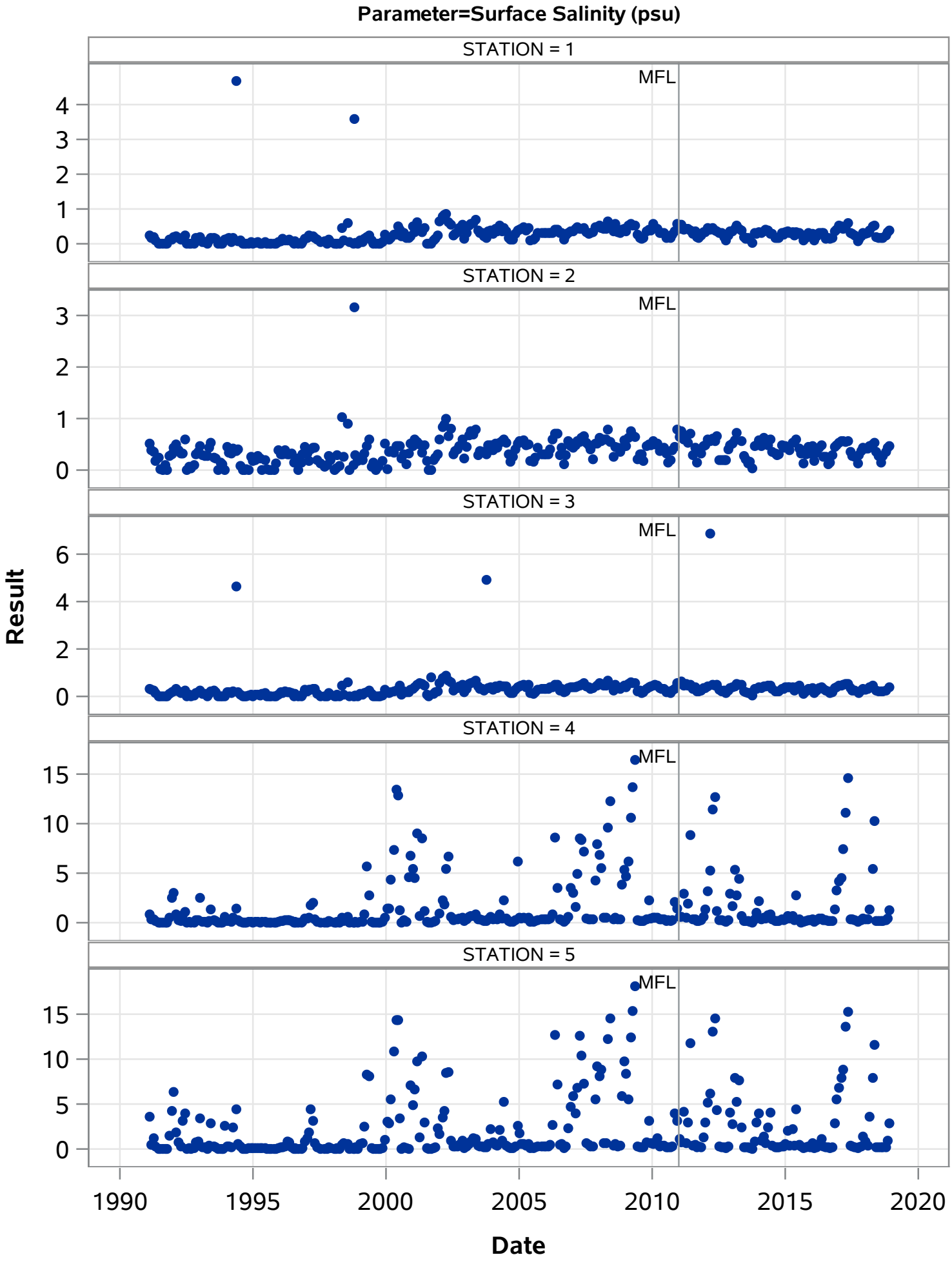

Parameter=Water Column Average pH (std. units)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
Date
8.5
8.0
7.5
7.0
6.5
6.0
9
8
7
6
7.2
1990
1995
2000
2005
2010
2015
2020

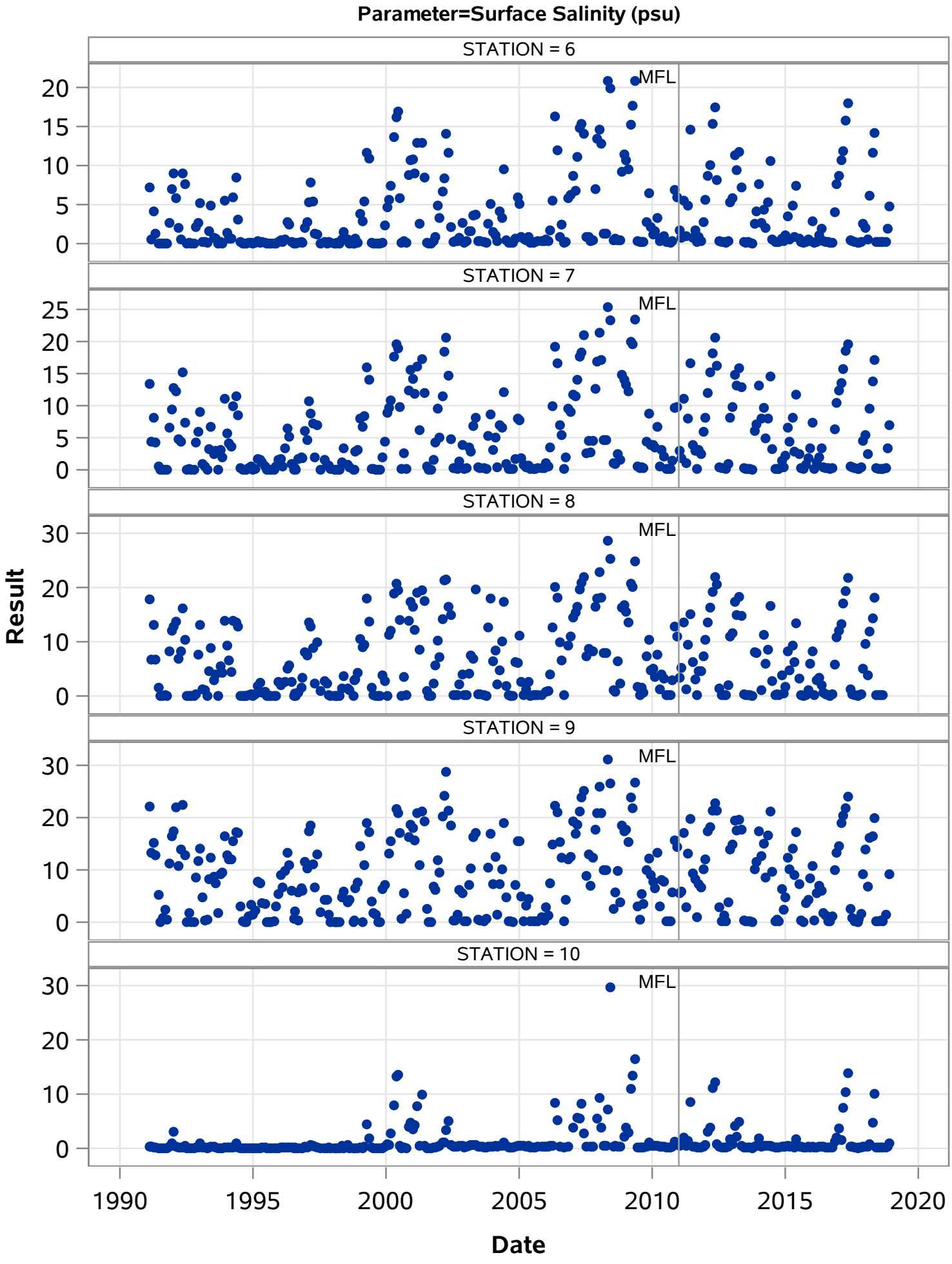

Parameter=Bottom Salinity (psu)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

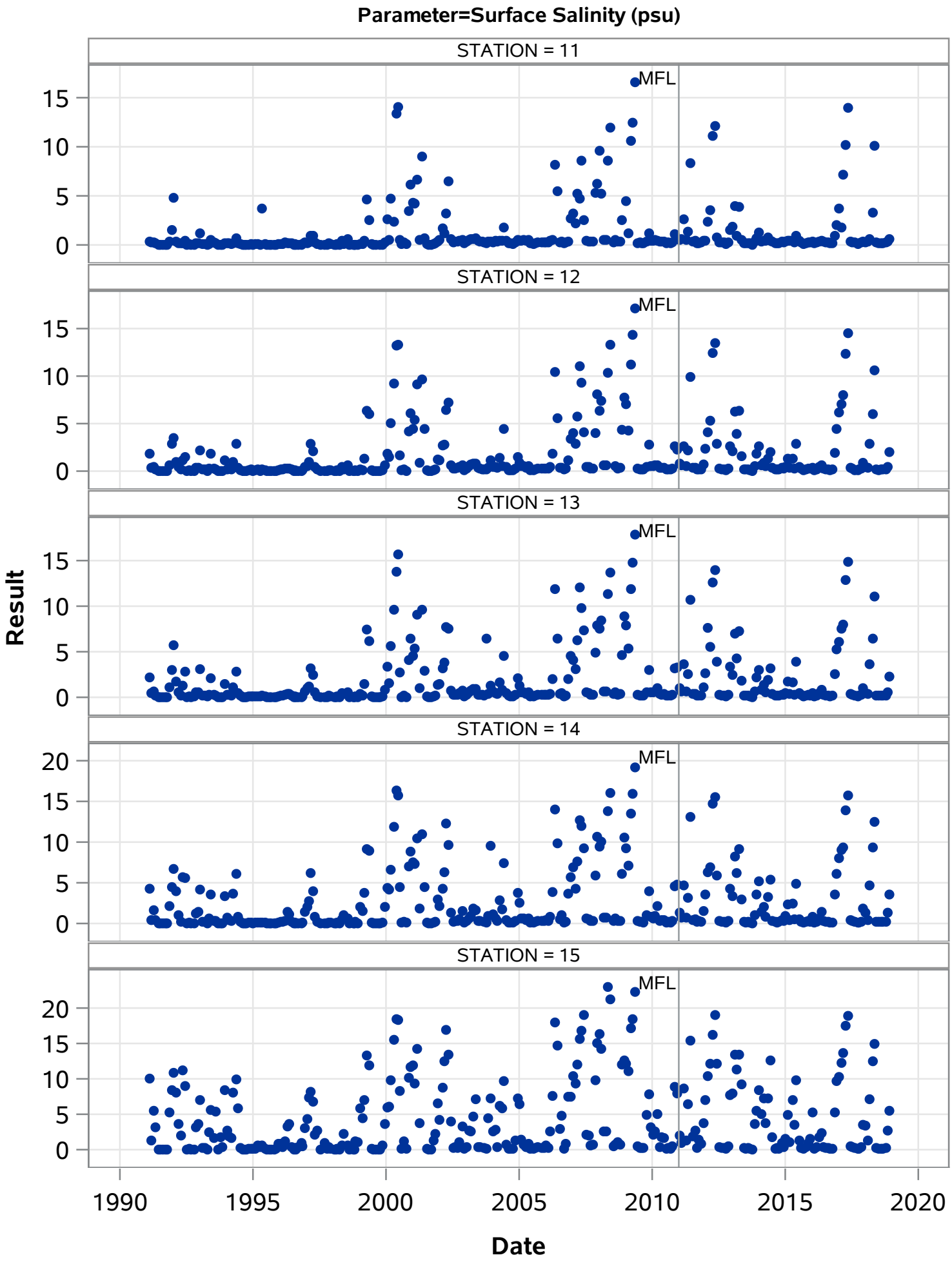

Parameter=Bottom Salinity (psu)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

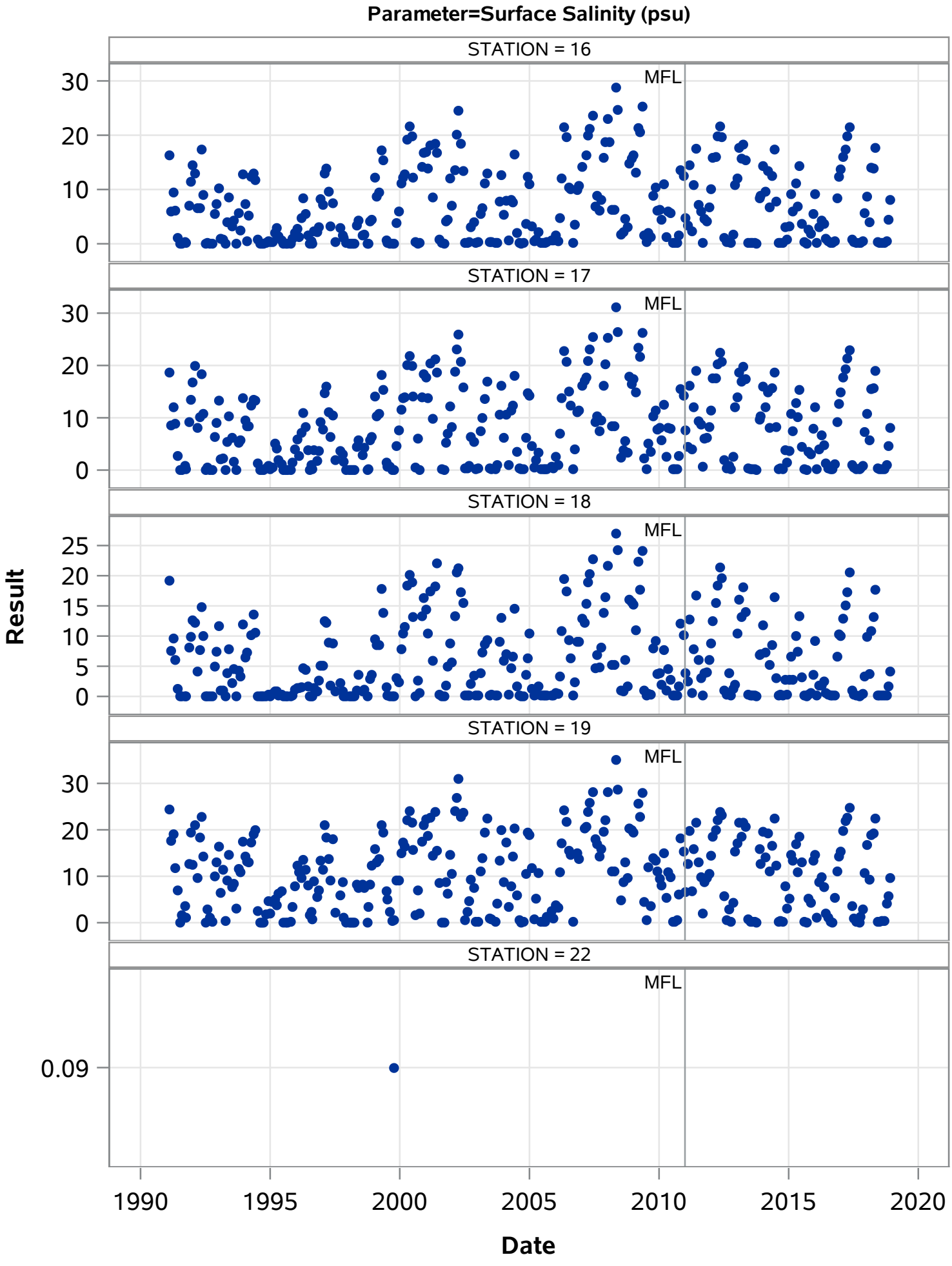

Parameter=Bottom Salinity (psu)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

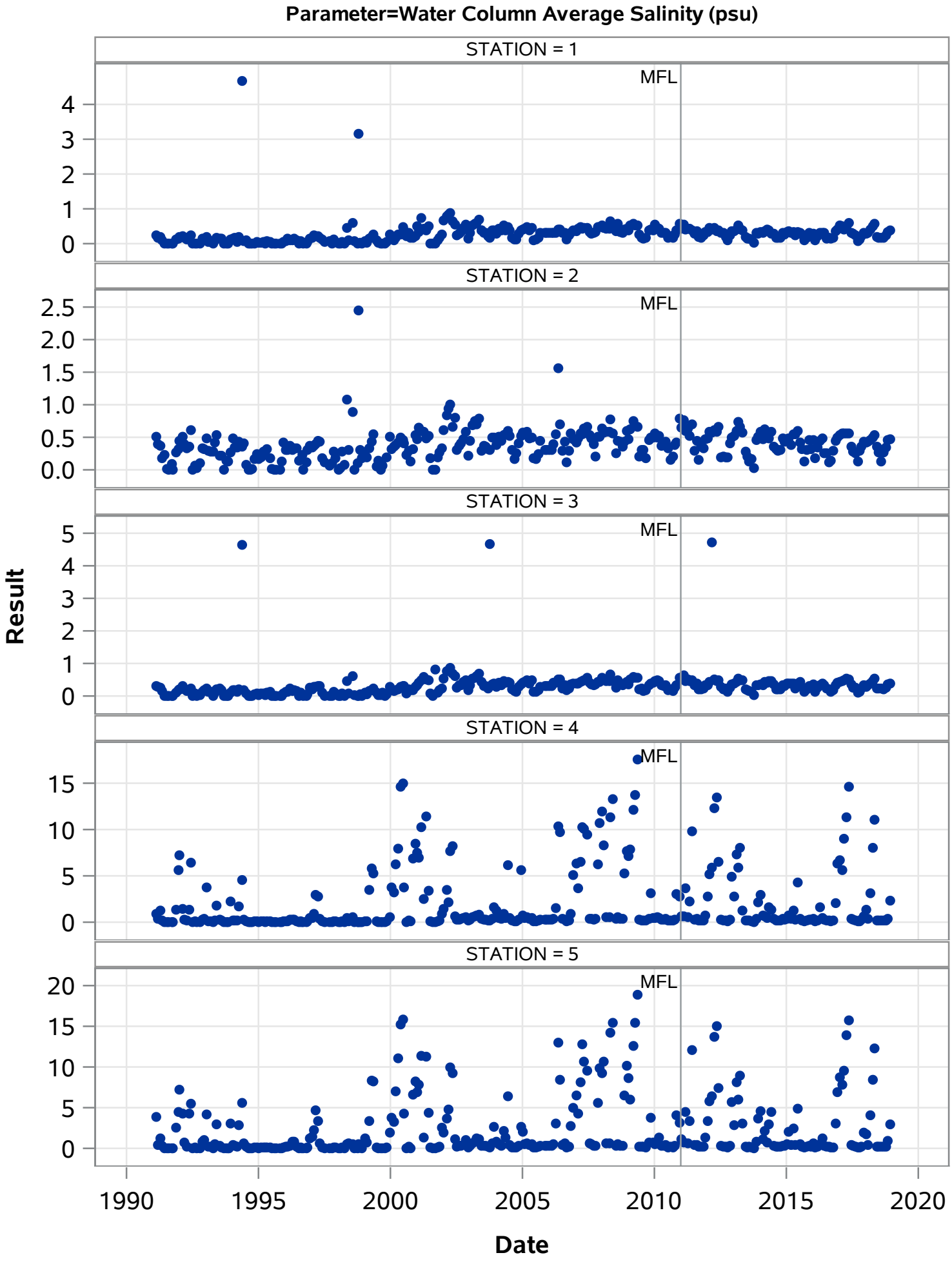

Parameter=Bottom Salinity (psu)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
30
20
10
0
0.09
1990
1995
2000
2005
2010
2015
2020
Date

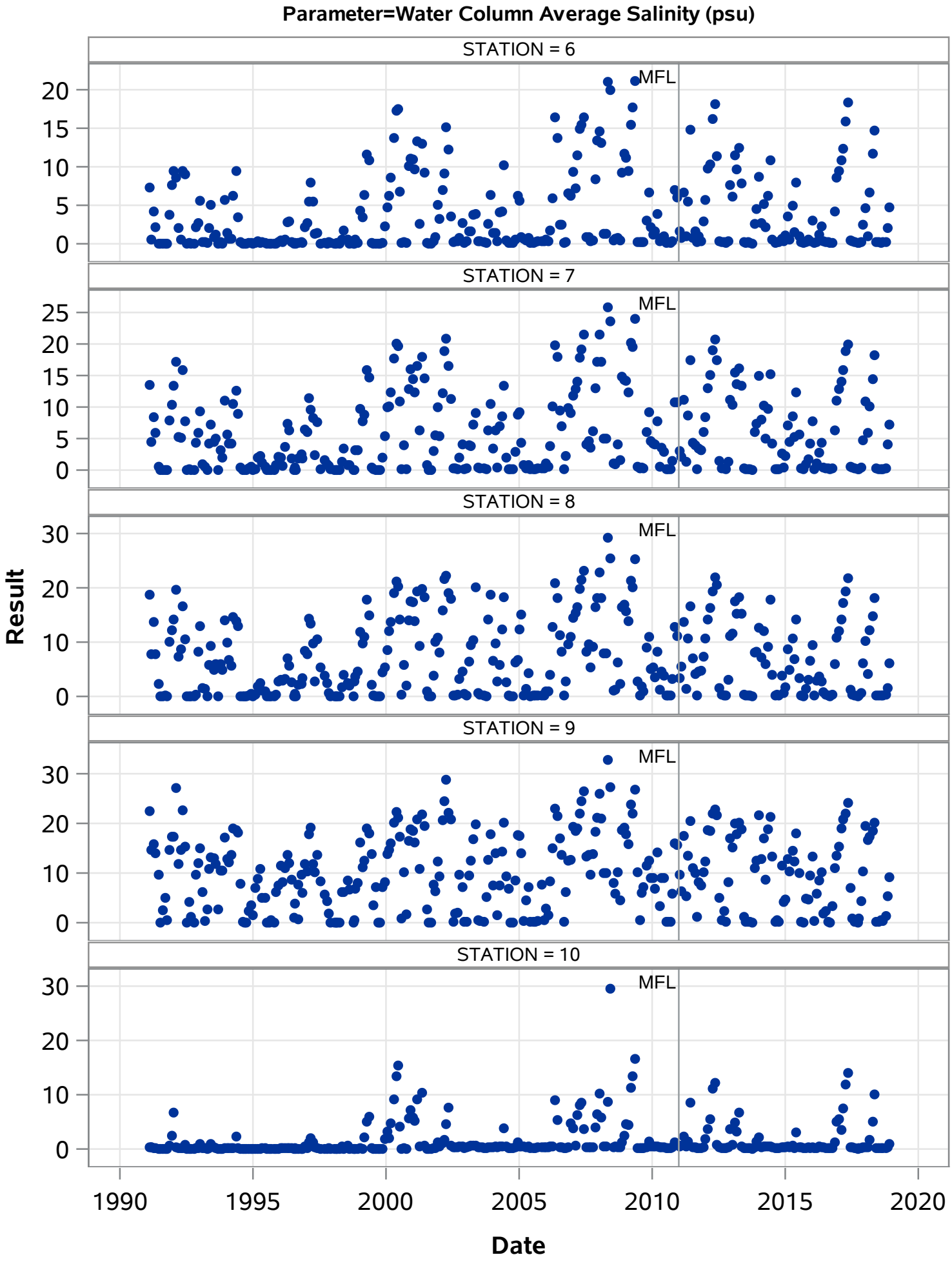

Parameter=Surface Salinity (psu)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

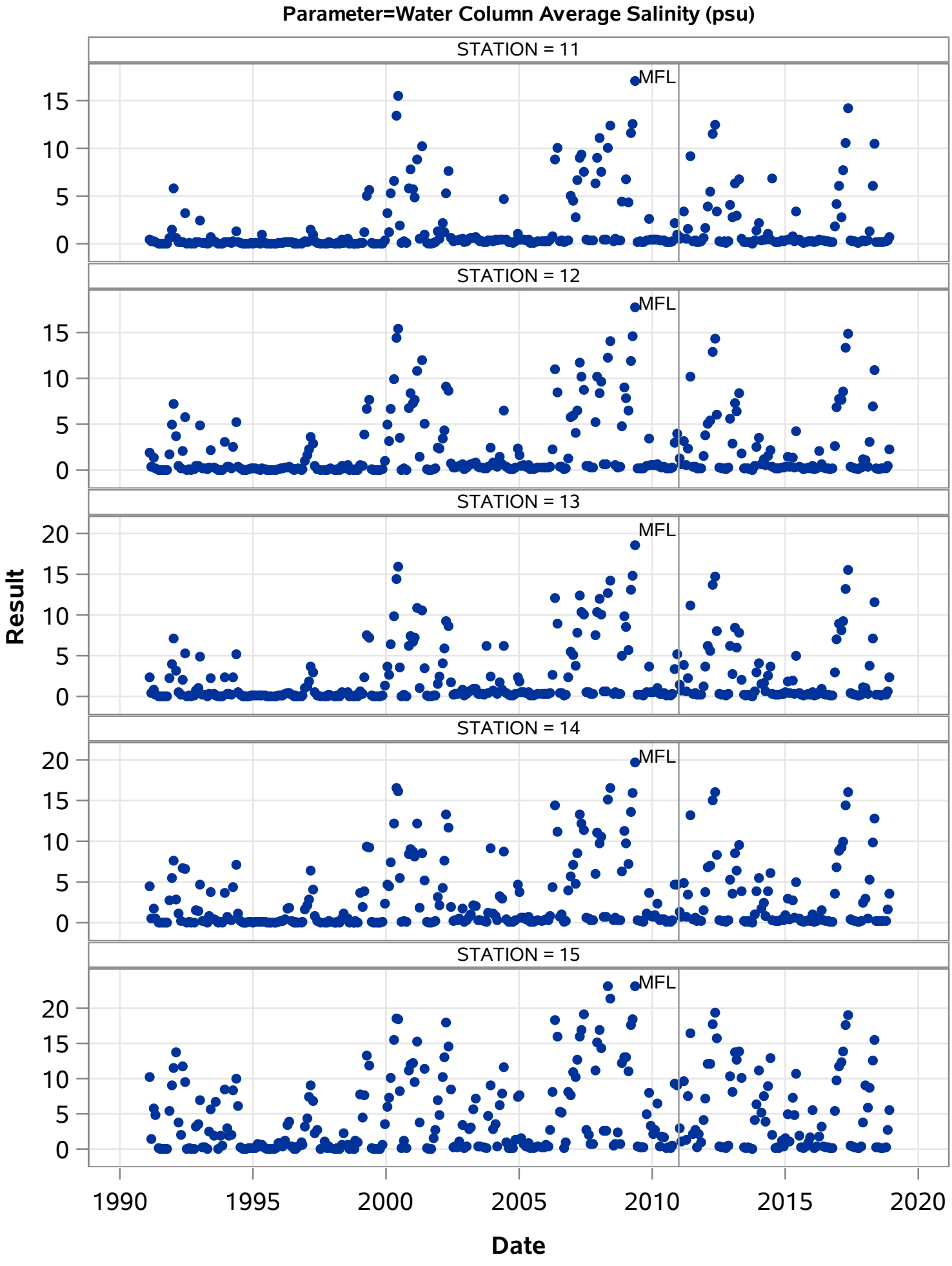

Parameter=Surface Salinity (psu)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

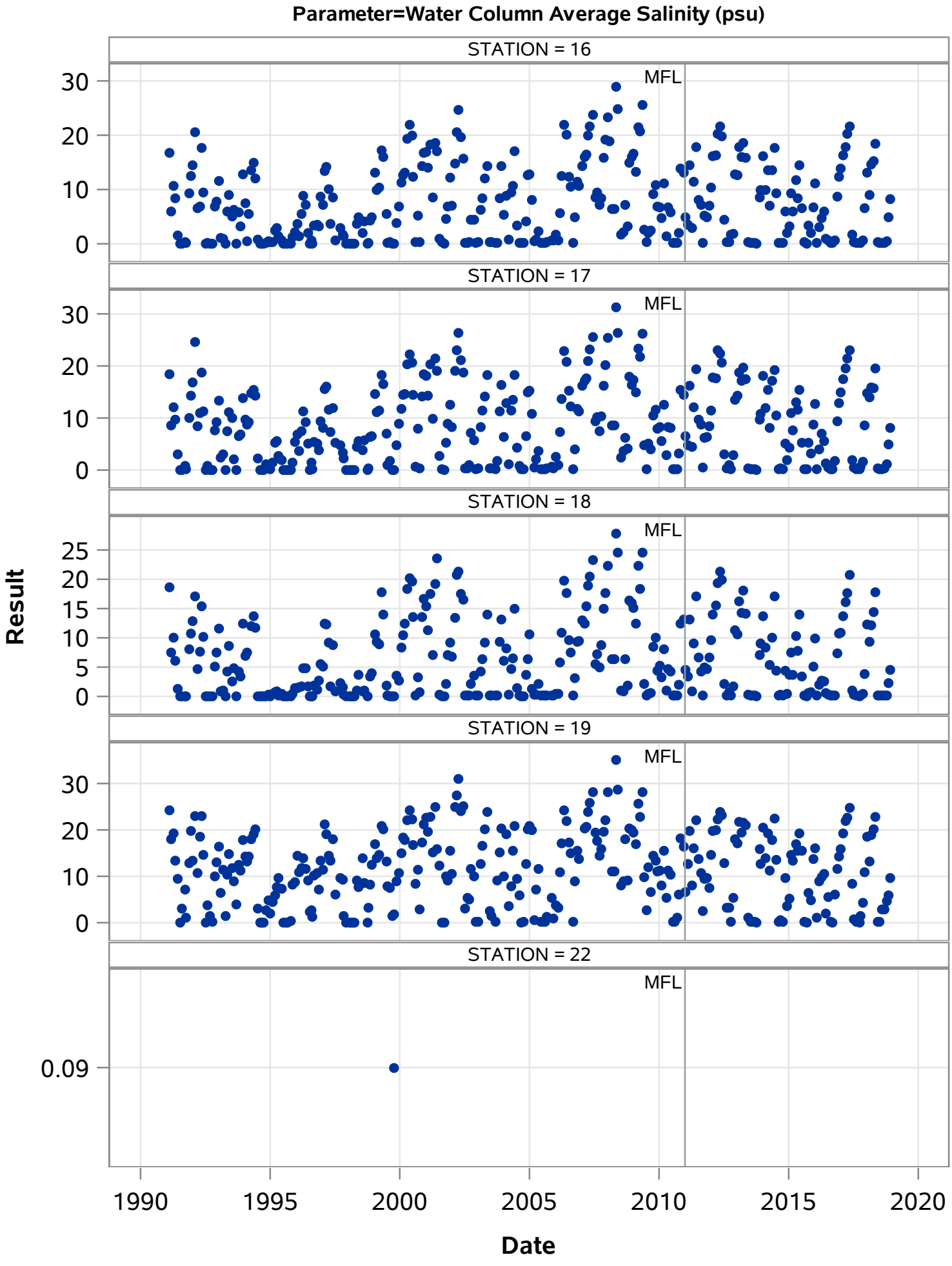

Parameter=Surface Salinity (psu)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
0
5
10
15
20
1990
1995
2000
2005
2010
2015
2020

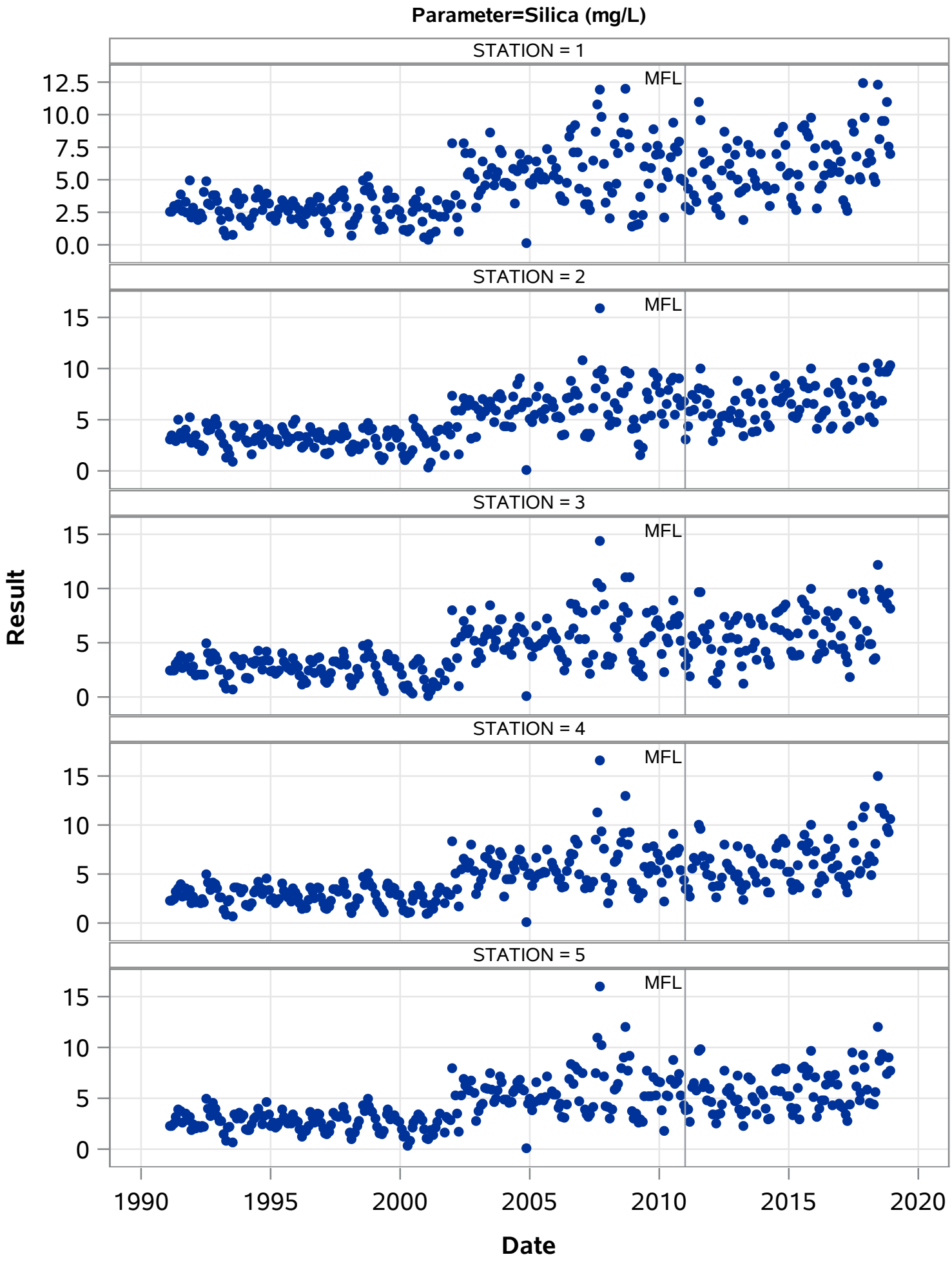

Parameter=Surface Salinity (psu)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
Date
0
5
10
15
20
25
30
0.09
1990
1995
2000
2005
2010
2015
2020

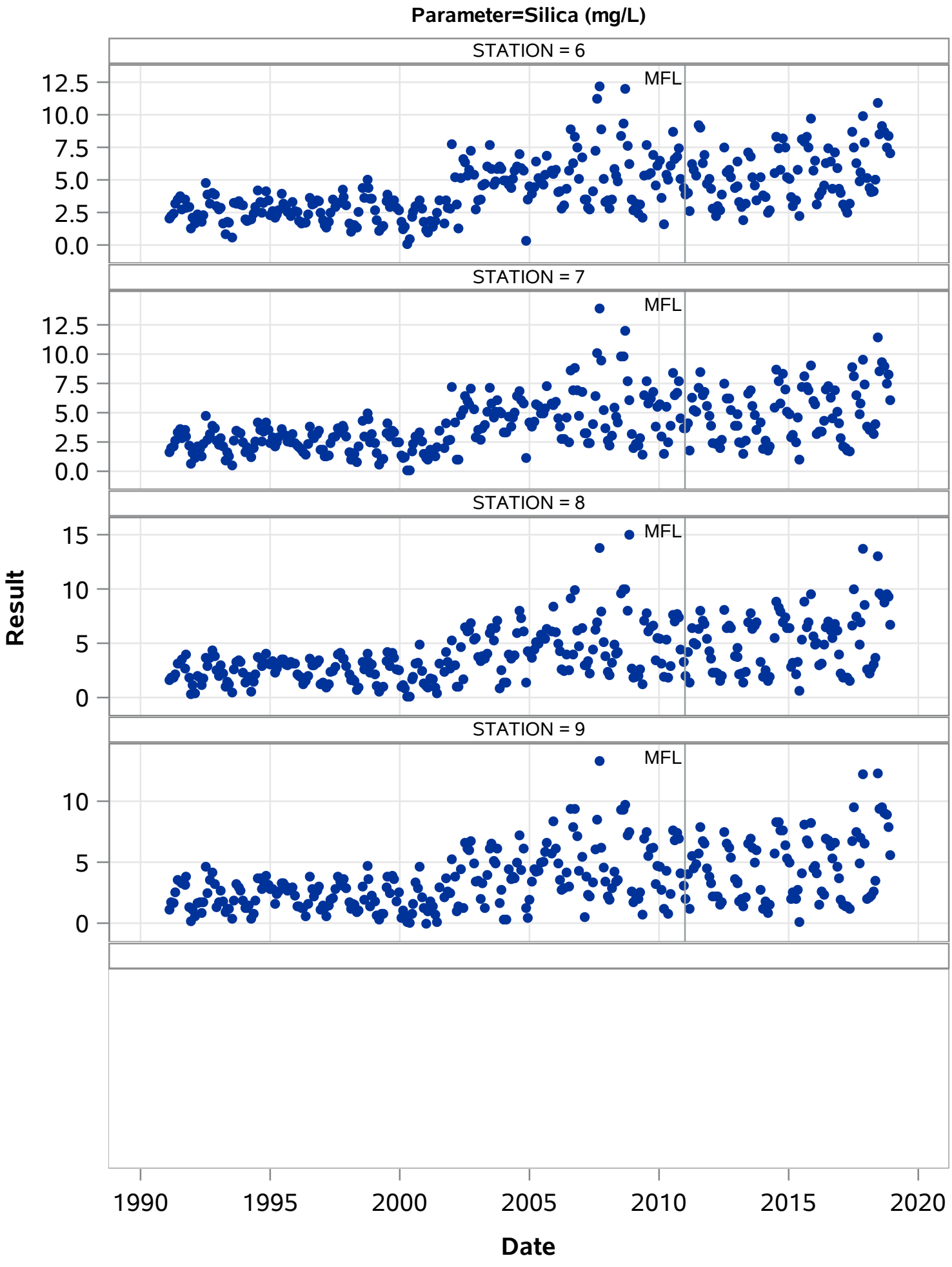

Parameter=Water Column Average Salinity (psu)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

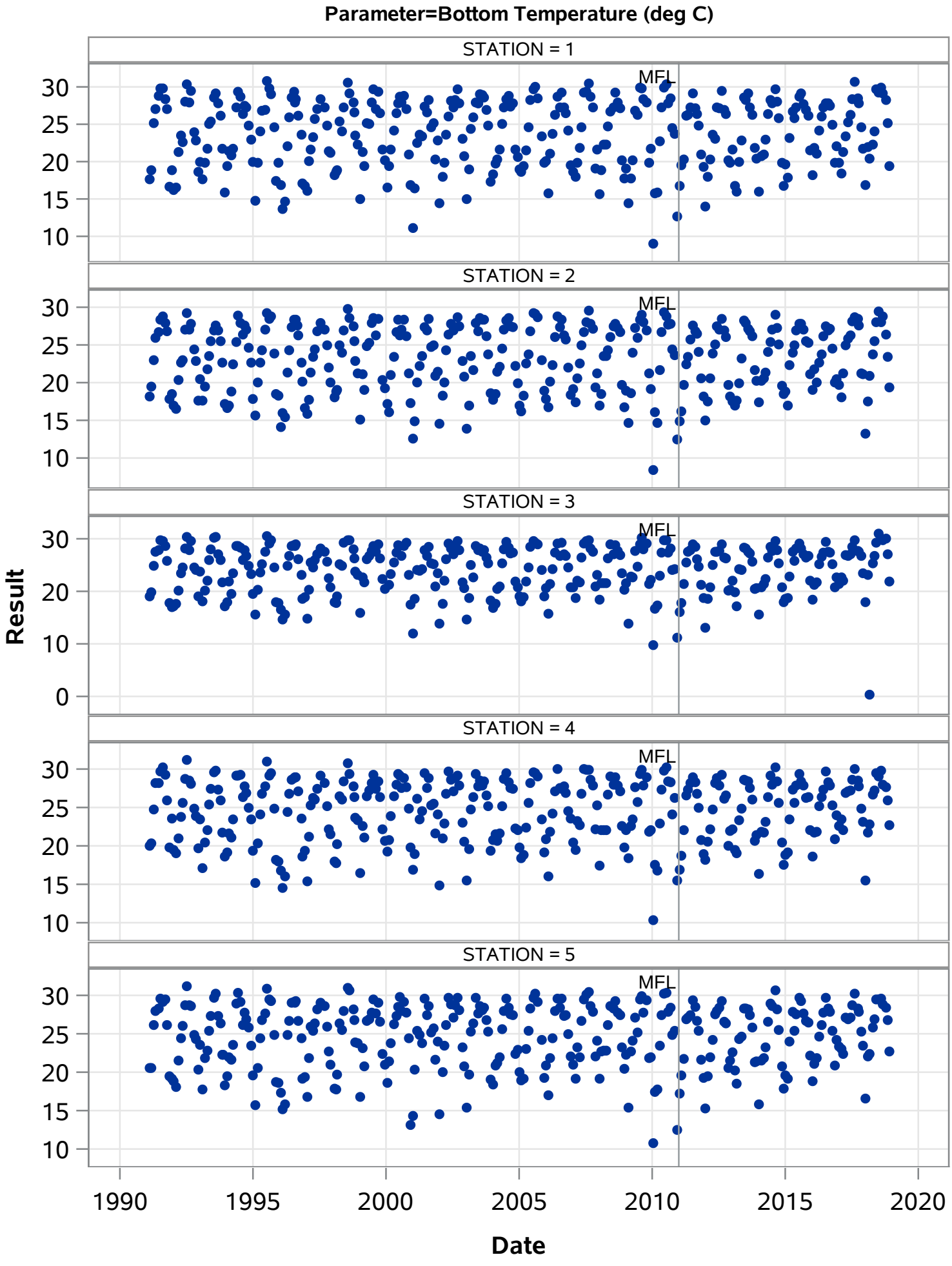

Parameter=Water Column Average Salinity (psu)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

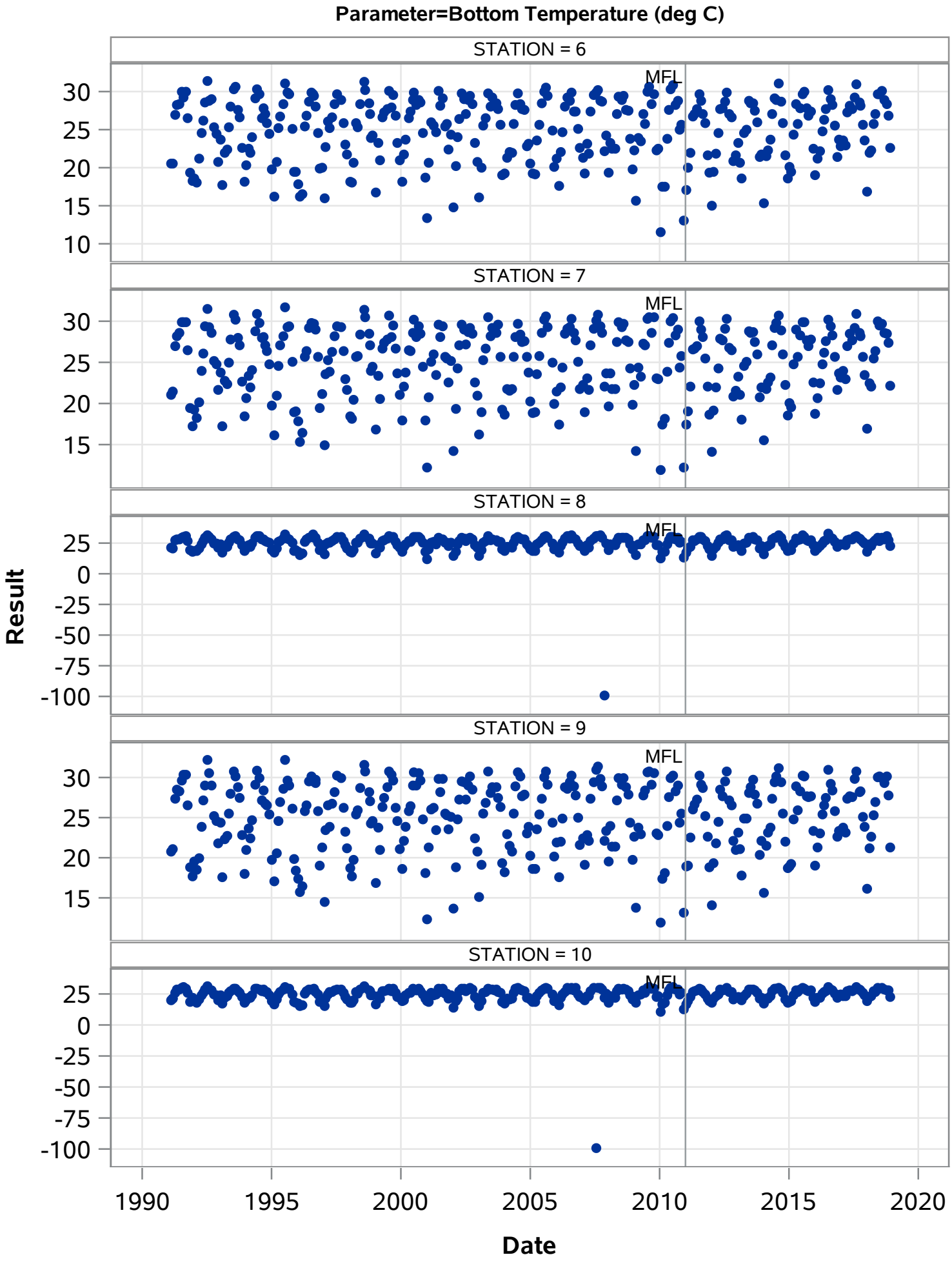

Parameter=Water Column Average Salinity (psu)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
Date
0
5
10
15
20
1990
1995
2000
2005
2010
2015
2020

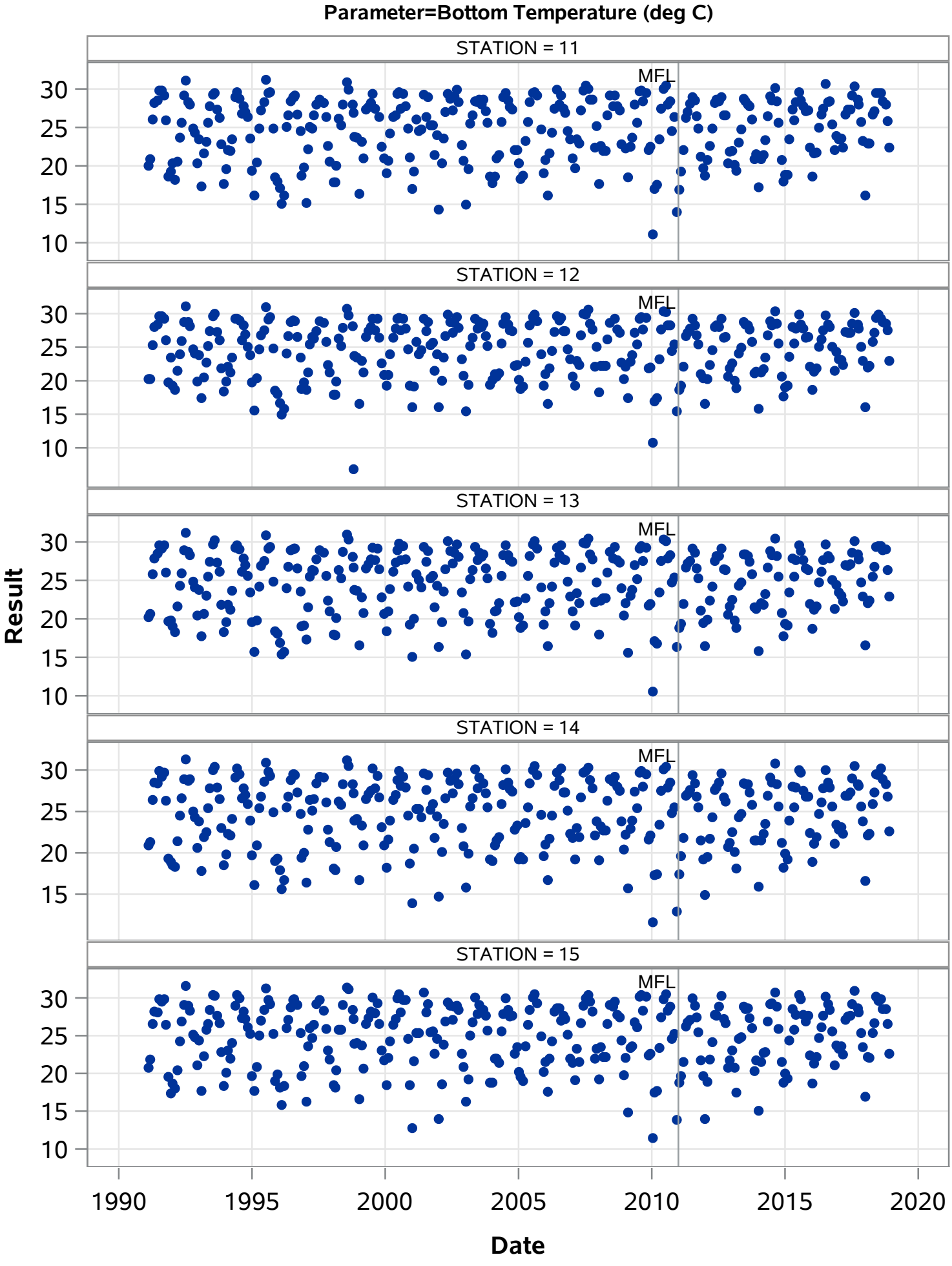

Parameter=Water Column Average Salinity (psu)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
Date
0
5
10
15
20
25
30
0.09
1990
1995
2000
2005
2010
2015
2020

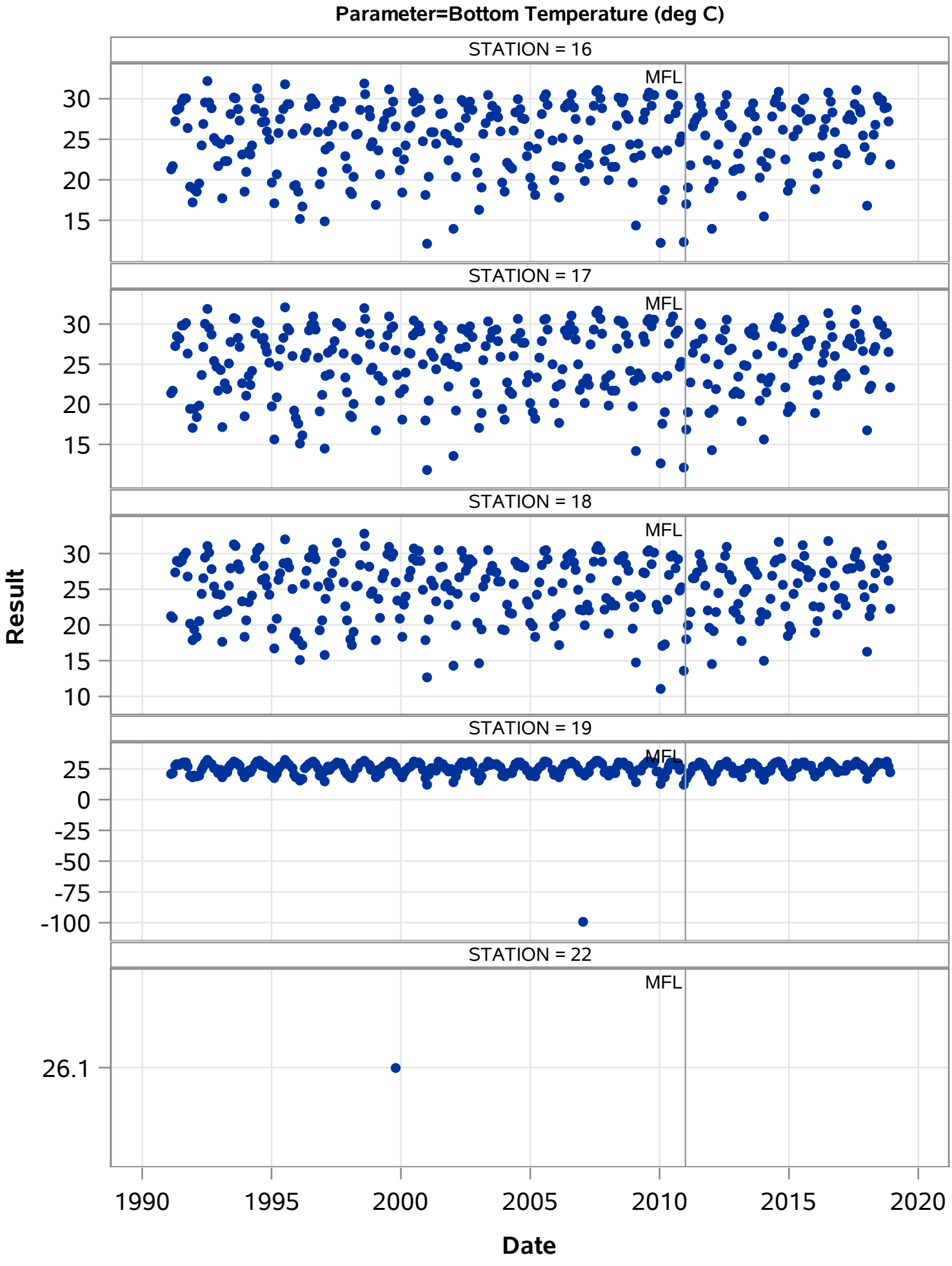

Parameter=Silica (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
12.5
10.0
7.5
5.0
2.5
0.0
15
10
5
0
1990
1995
2000
2005
2010
2015
2020

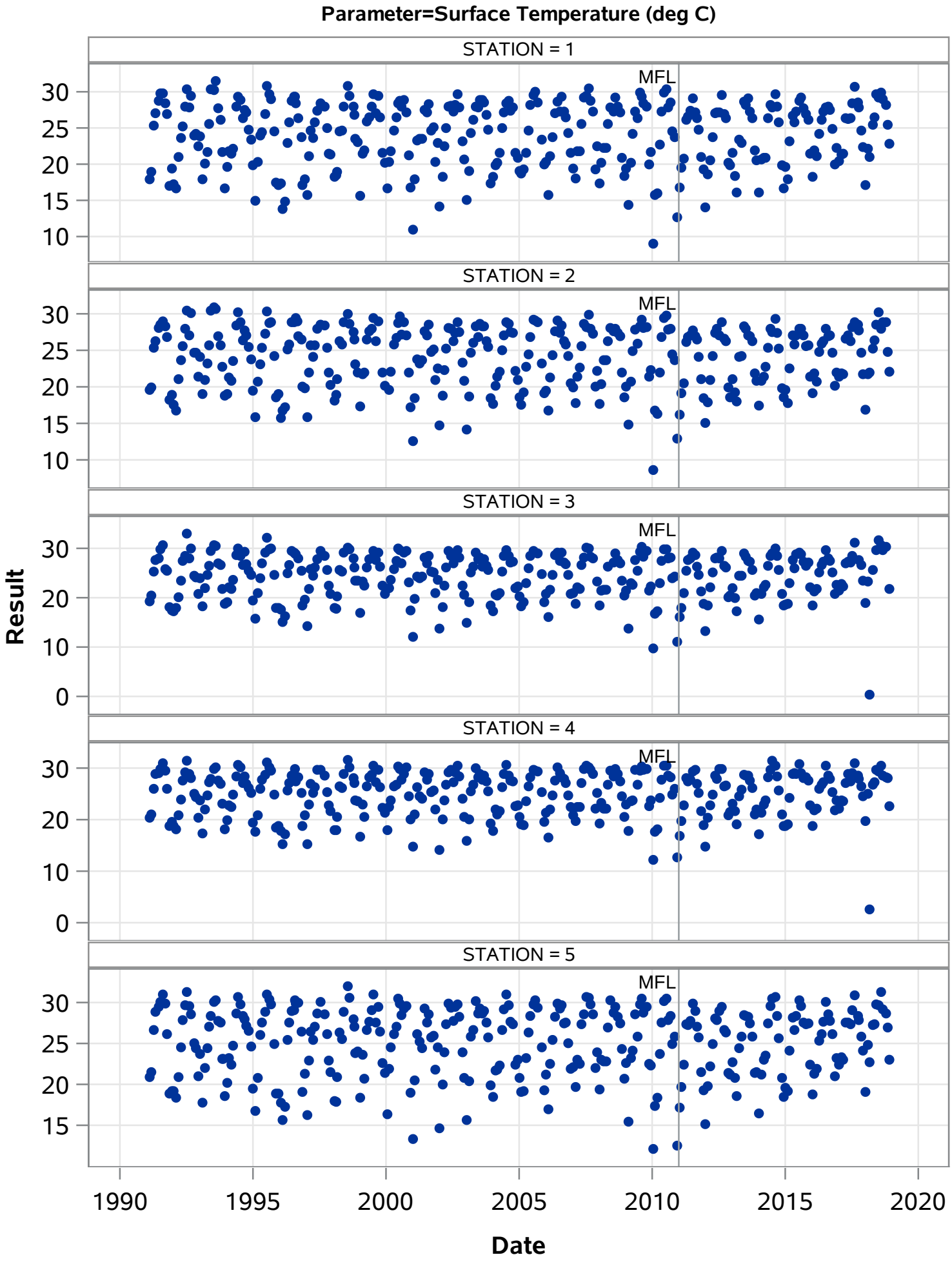

Parameter=Silica (mg/L)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
Date
0.0
2.5
5.0
7.5
10.0
12.5
0
5
10
15
1990
1995
2000
2005
2010
2015
2020

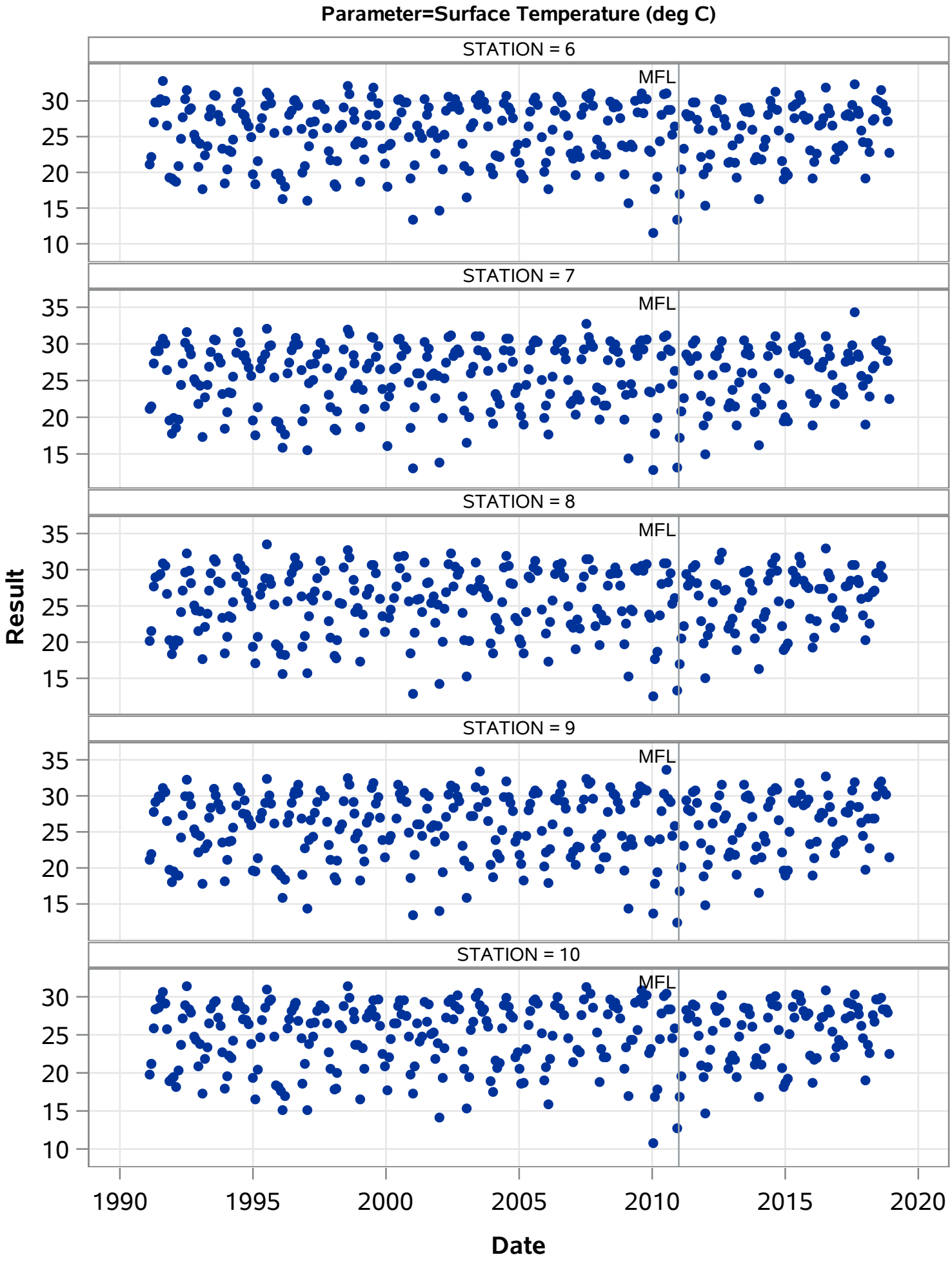

Parameter=Bottom Temperature (deg C)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
0
10
15
20
25
30
1990
1995
2000
2005
2010
2015
2020

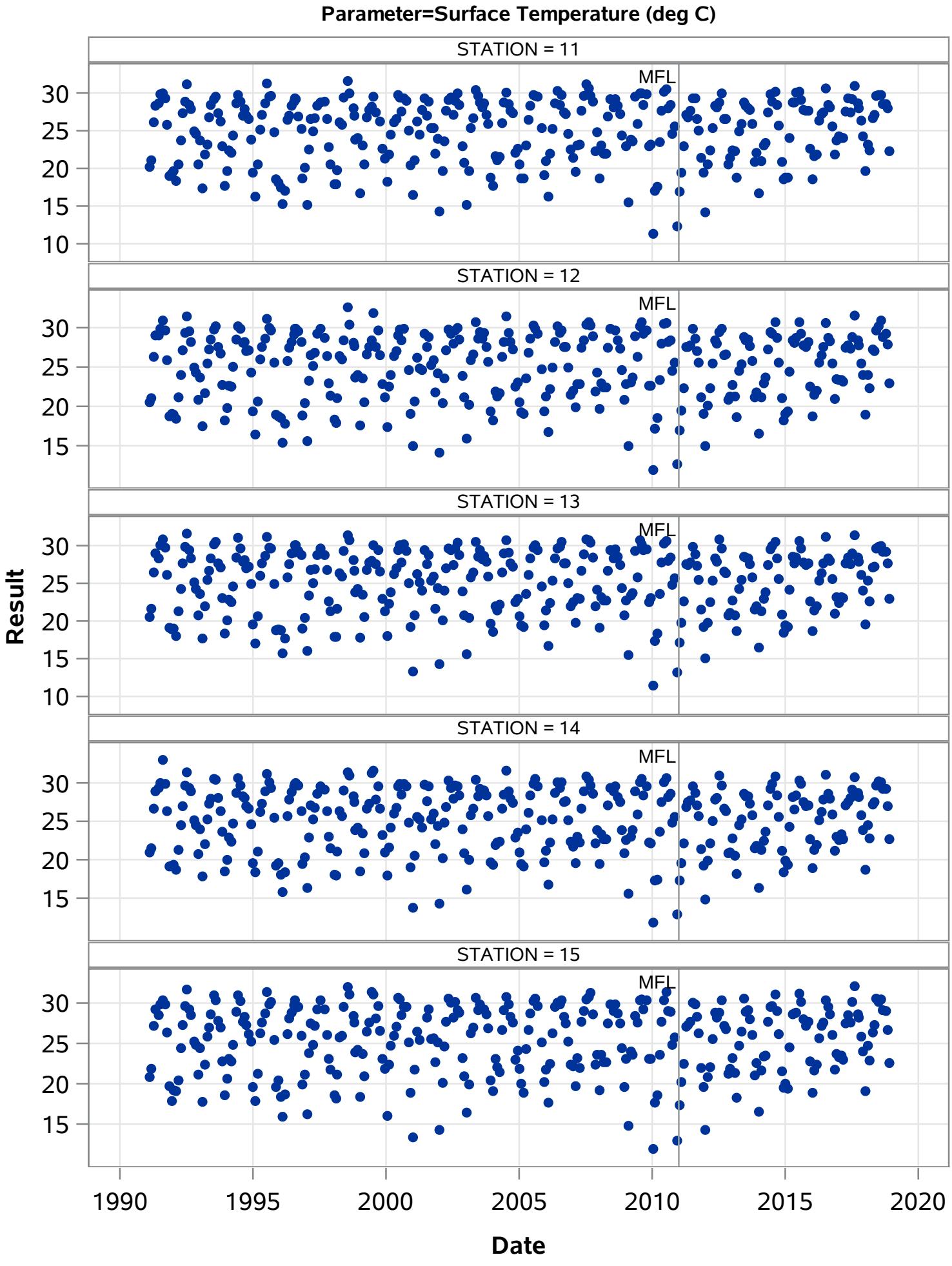

Parameter=Bottom Temperature (deg C)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
30
25
20
15
10
0
-25
-50
-75
-100
1990
1995
2000
2005
2010
2015
2020

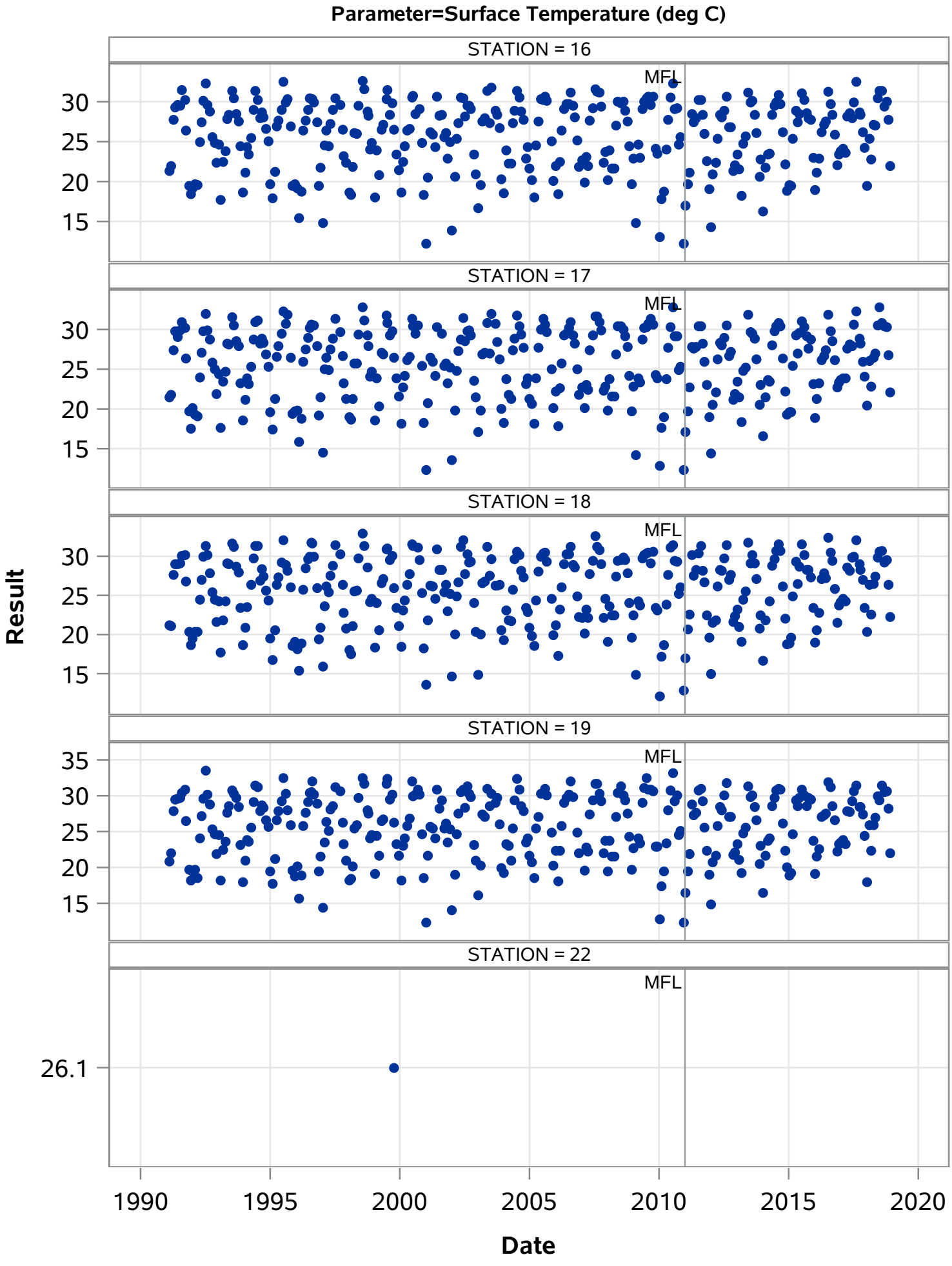

Parameter=Bottom Temperature (deg C)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
30
25
20
15
10
1990
1995
2000
2005
2010
2015
2020
Date

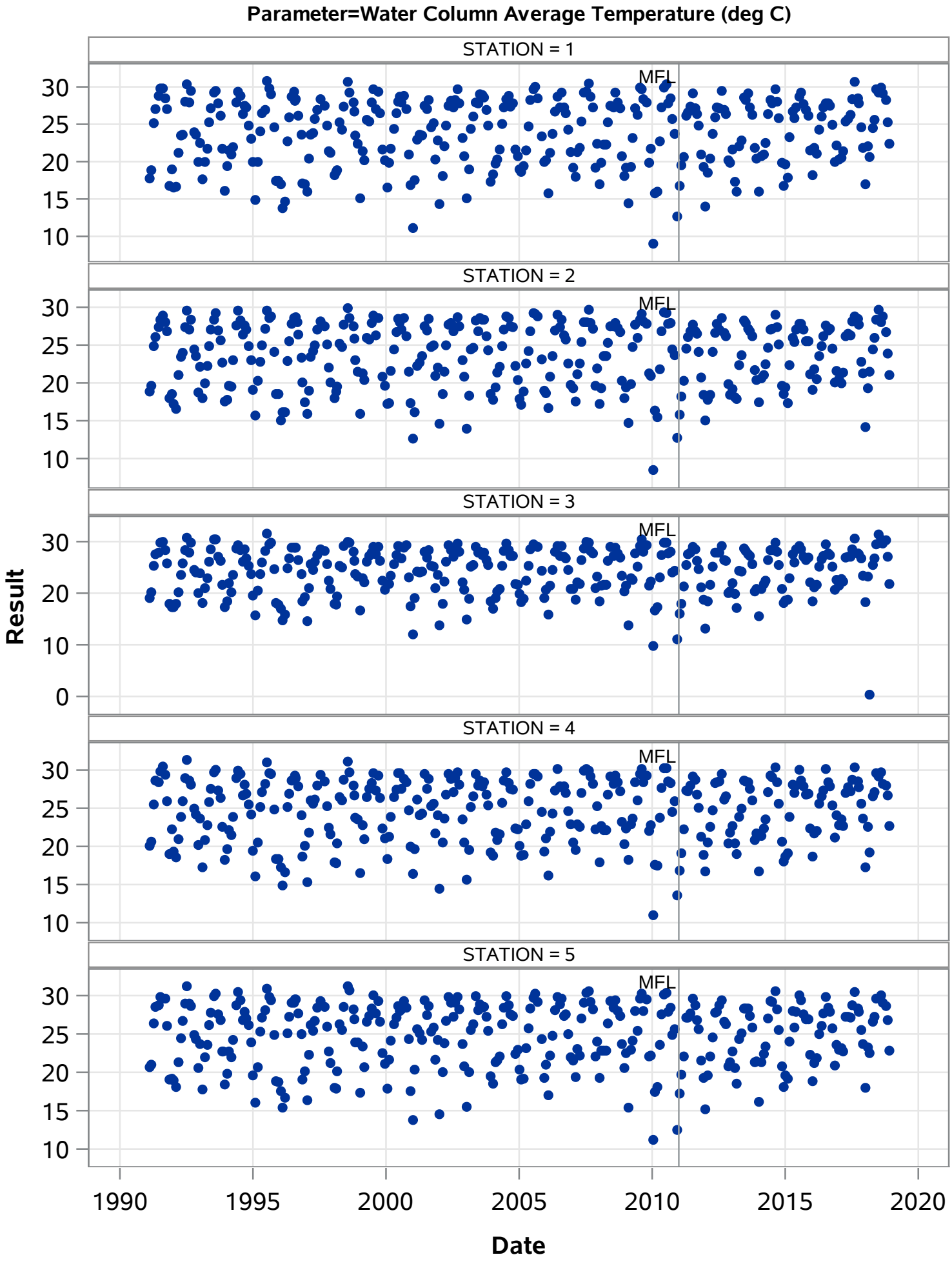

Parameter=Bottom Temperature (deg C)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
30
25
20
15
10
0
-25
-50
-75
-100
26.1
1990
1995
2000
2005
2010
2015
2020
Date

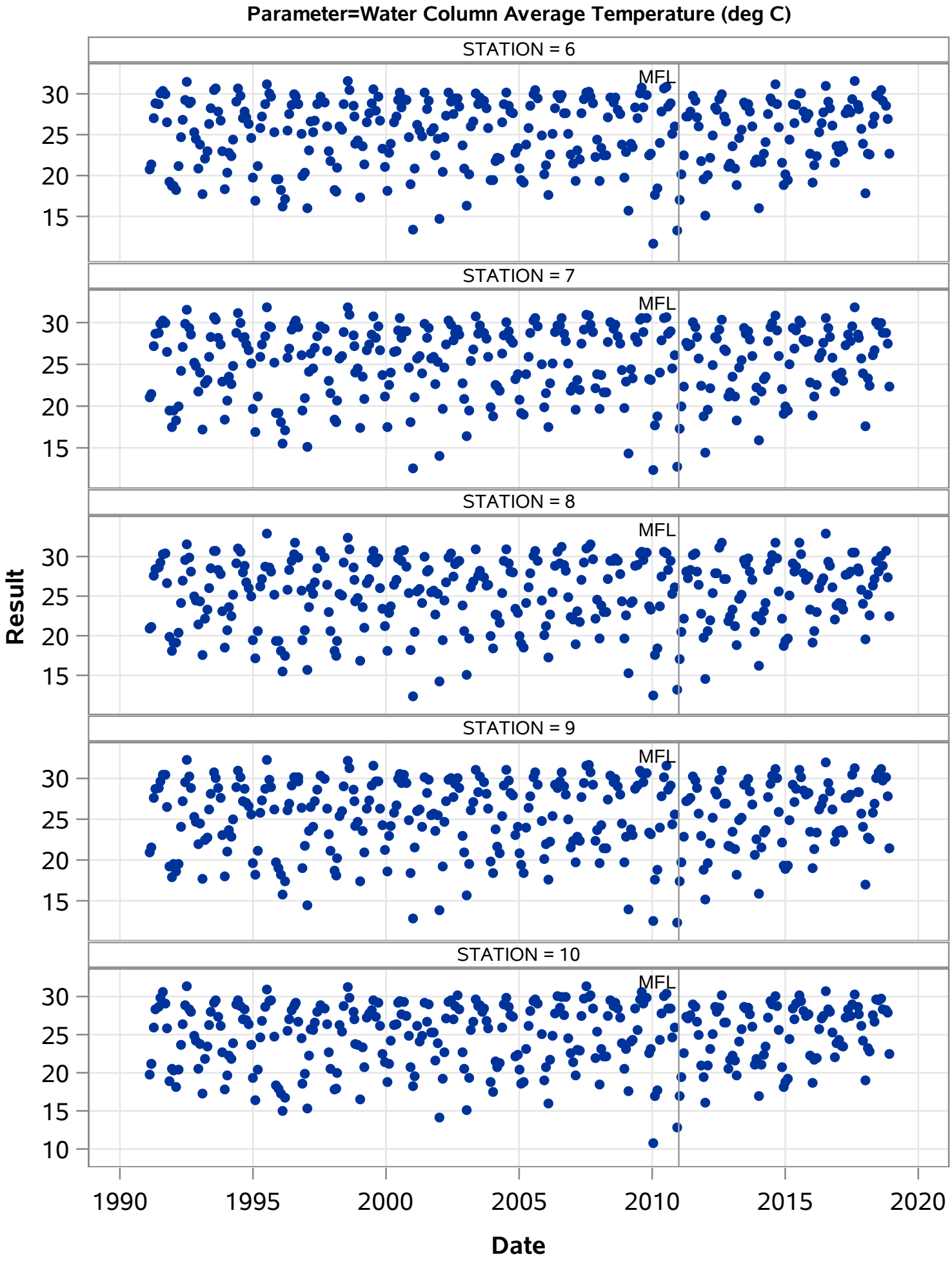

Parameter=Surface Temperature (deg C)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

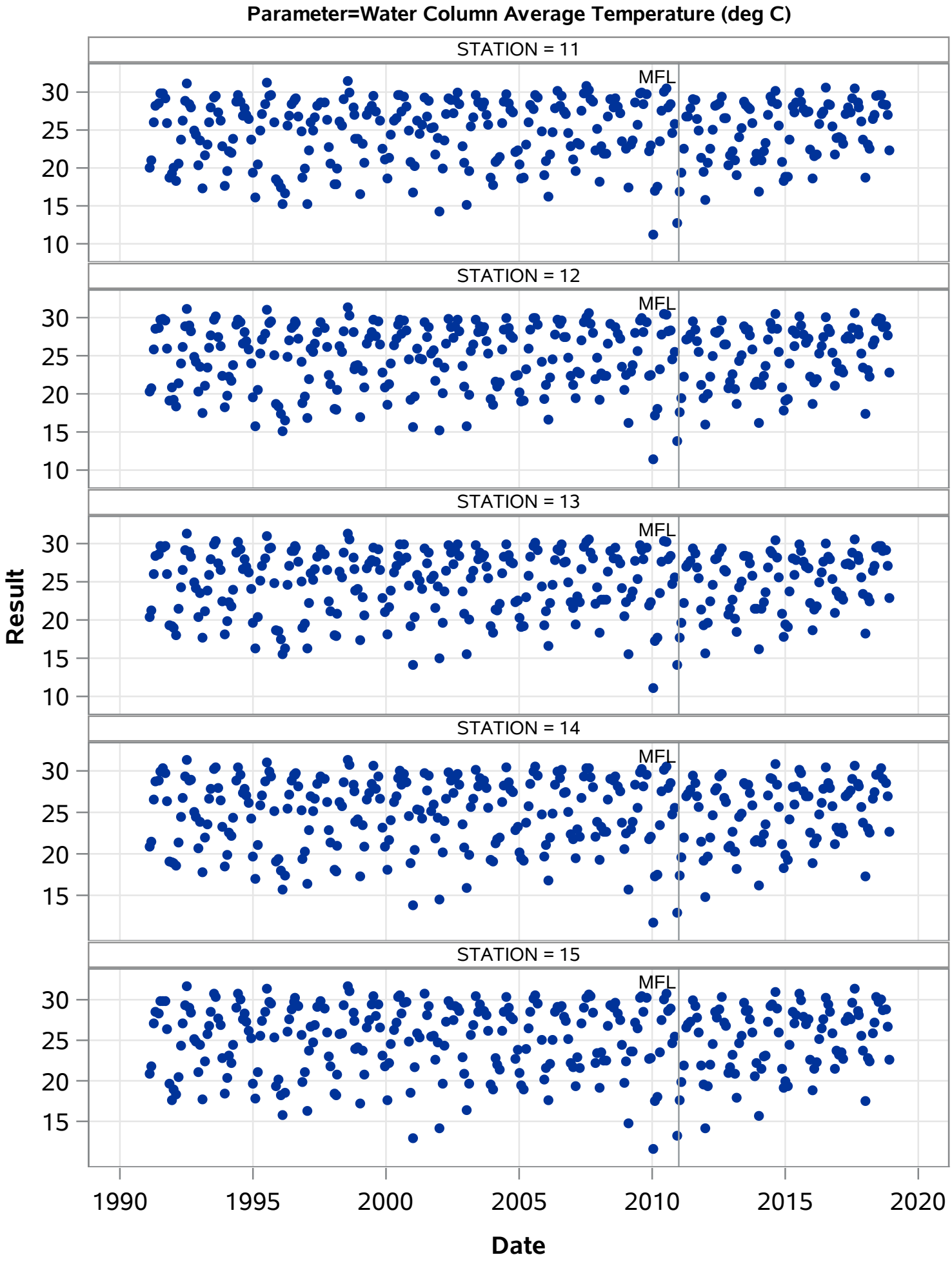

Parameter=Surface Temperature (deg C)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

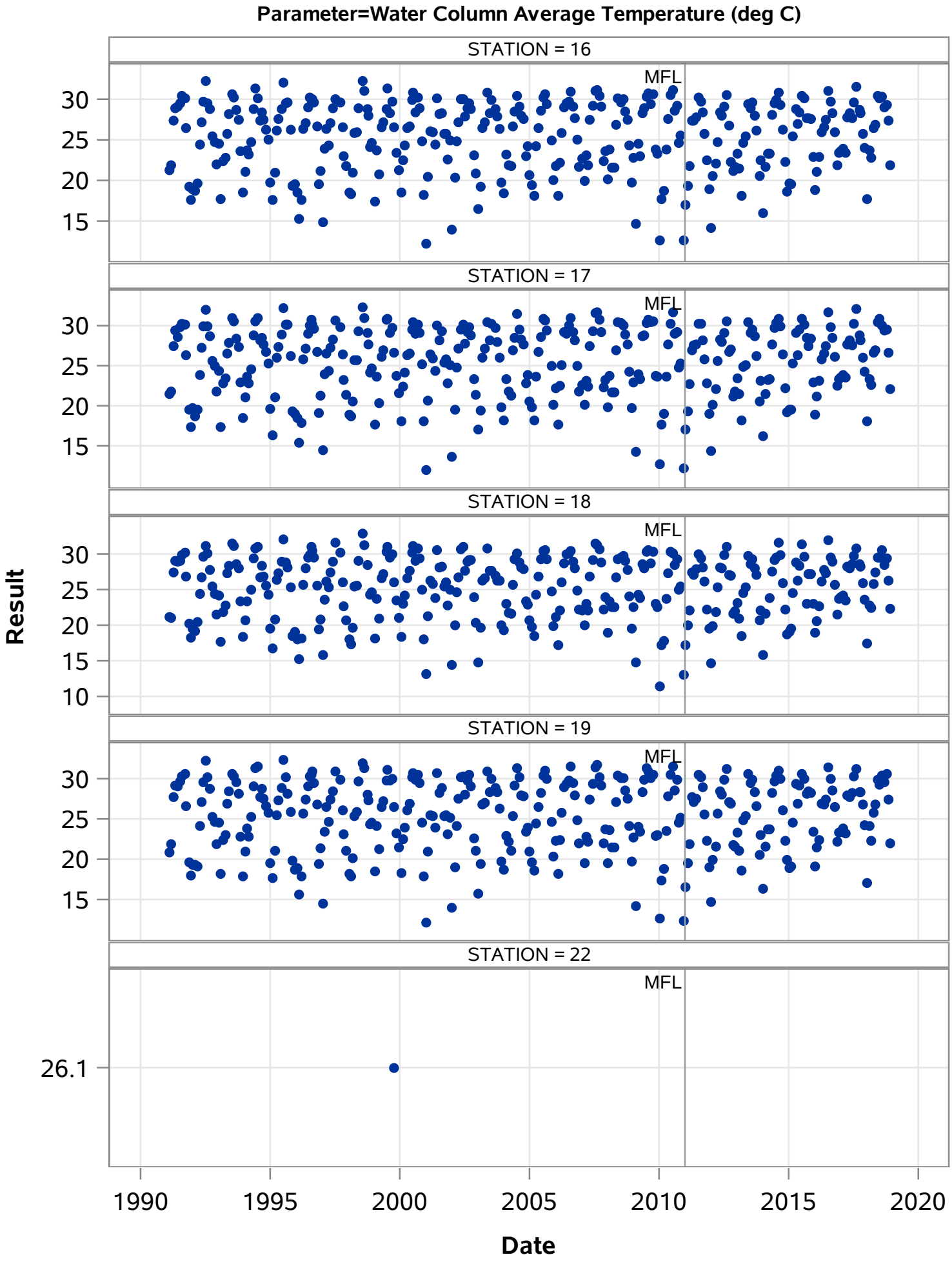

Parameter=Surface Temperature (deg C)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
30
25
20
15
10
1990
1995
2000
2005
2010
2015
2020
Date

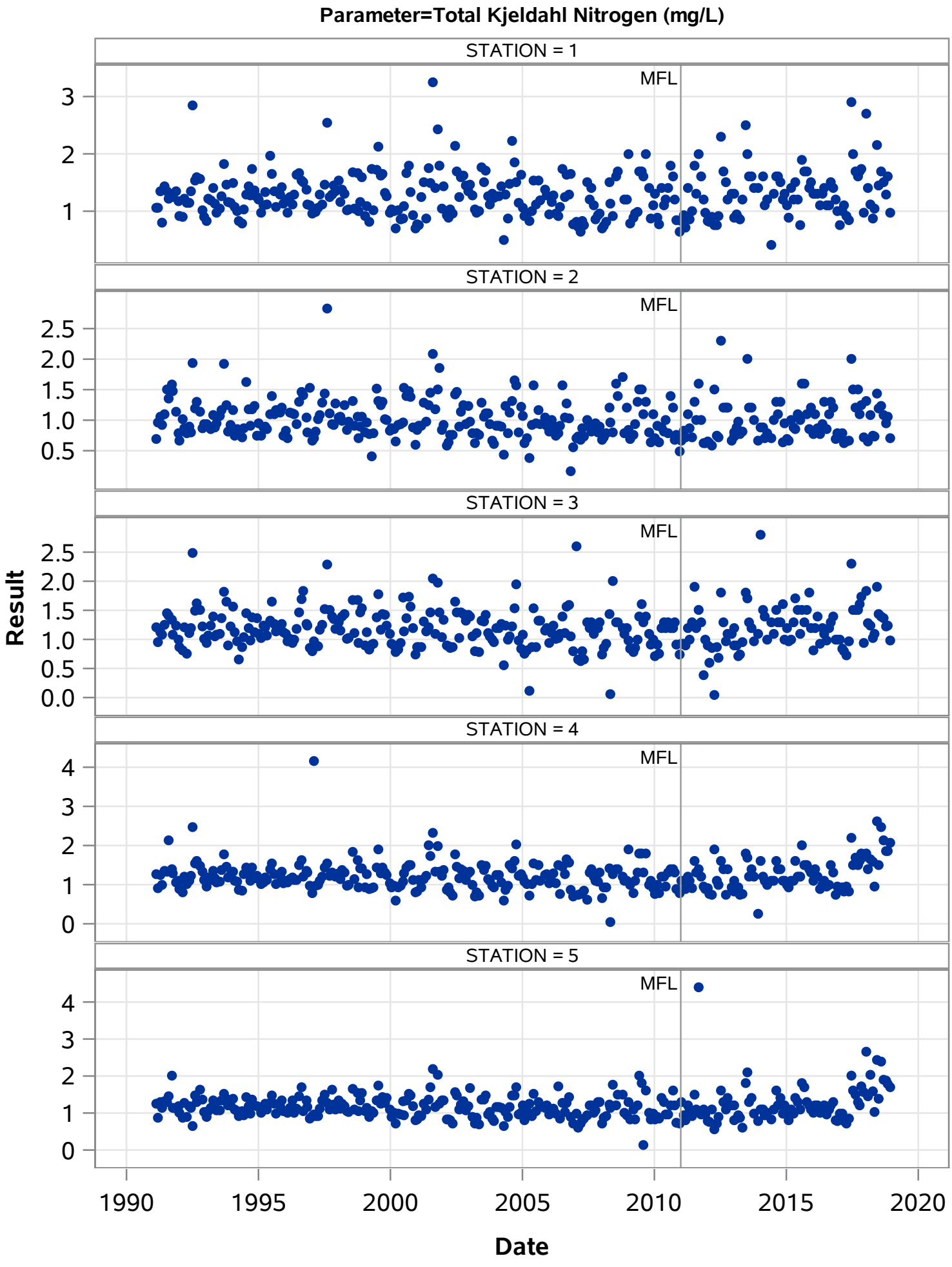

Parameter=Surface Temperature (deg C)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
30
25
20
15
35
26.1
1990
1995
2000
2005
2010
2015
2020
Date

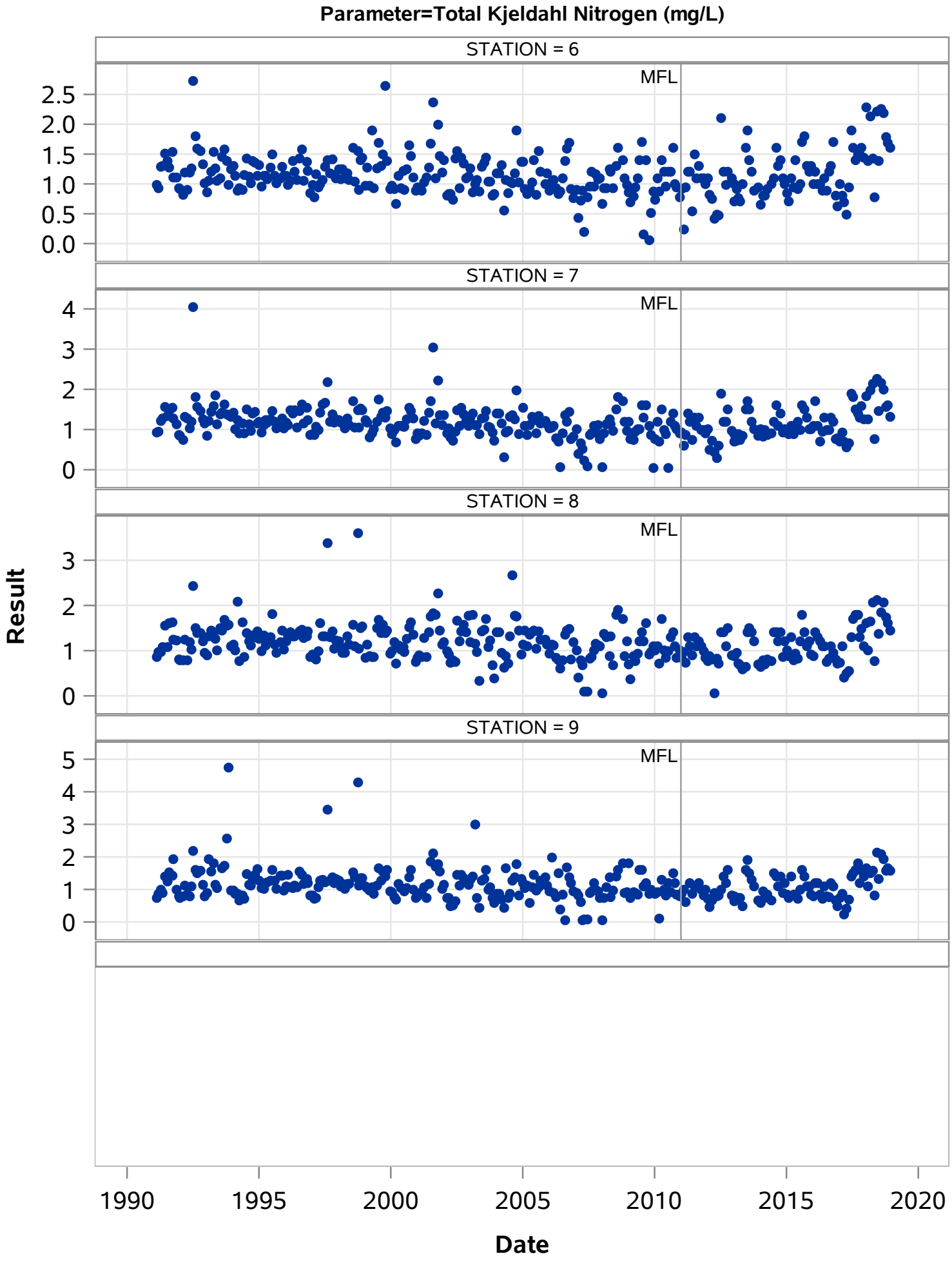

Parameter=Water Column Average Temperature (deg C)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

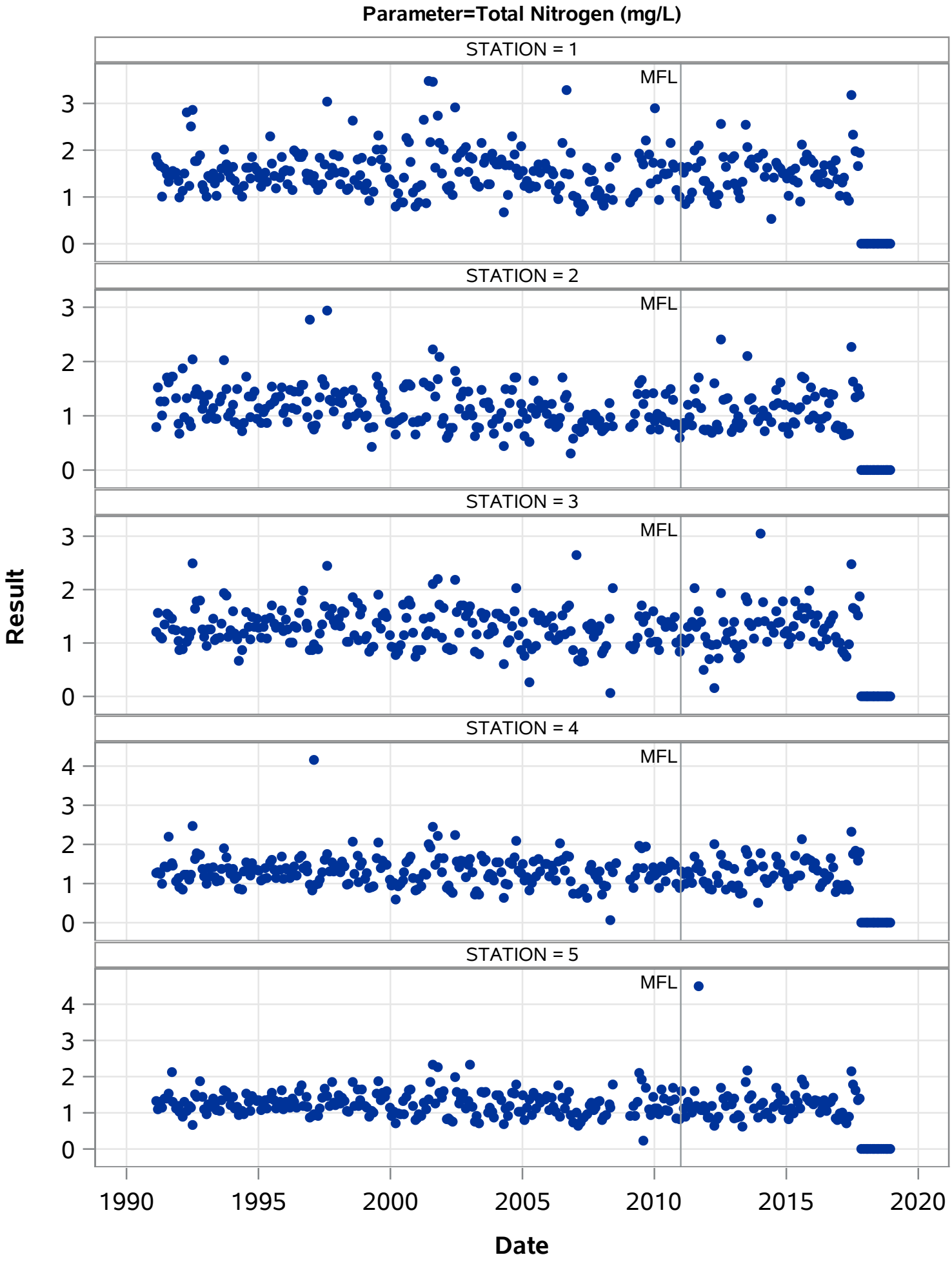

Parameter=Water Column Average Temperature (deg C)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
STATION = 10
MFL
Result
30
25
20
15
10
1990
1995
2000
2005
2010
2015
2020
Date

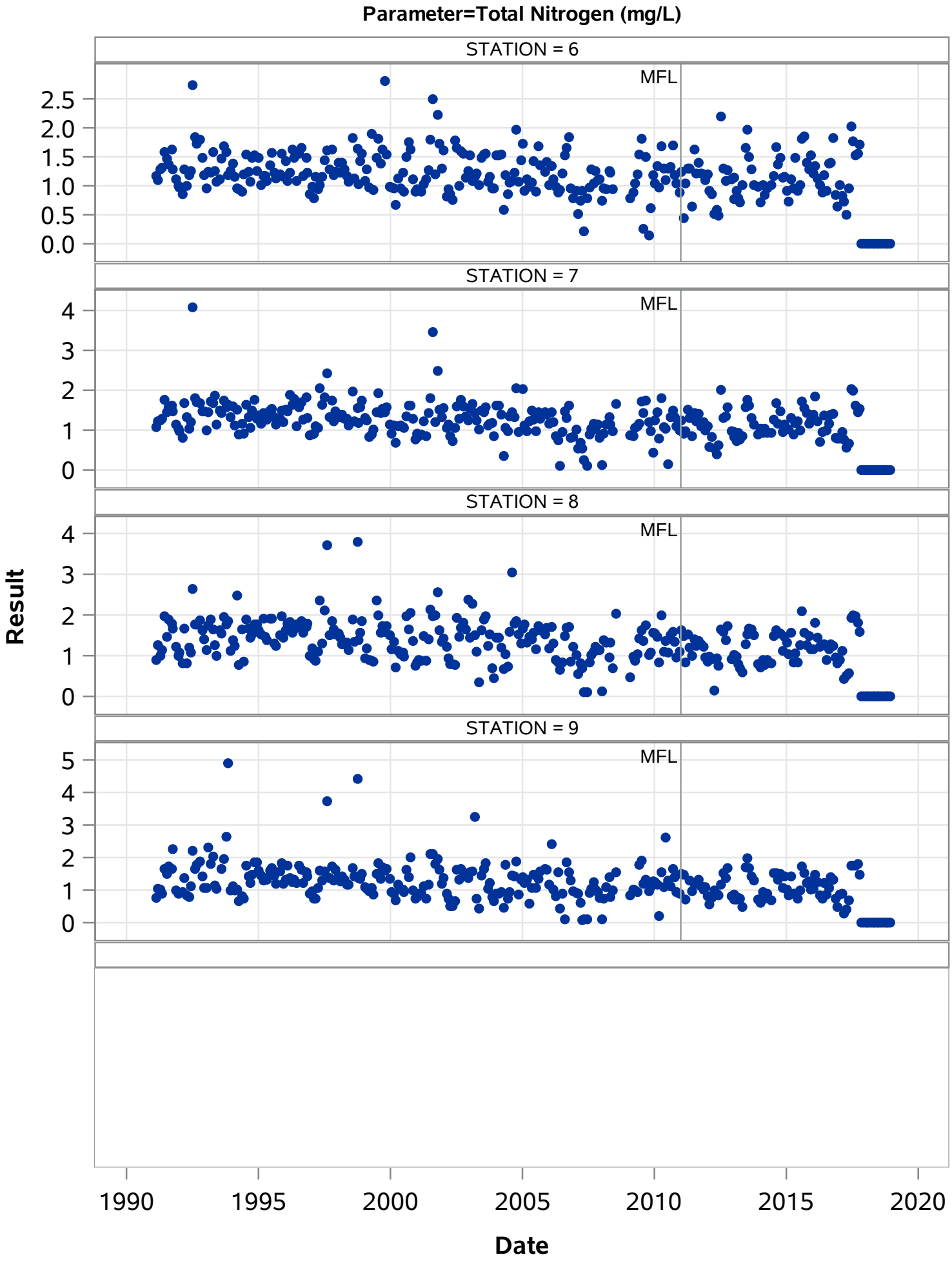

Parameter=Water Column Average Temperature (deg C)
STATION = 11
STATION = 12
STATION = 13
STATION = 14
STATION = 15
MFL
Result
30
25
20
15
10
1990
1995
2000
2005
2010
2015
2020
Date

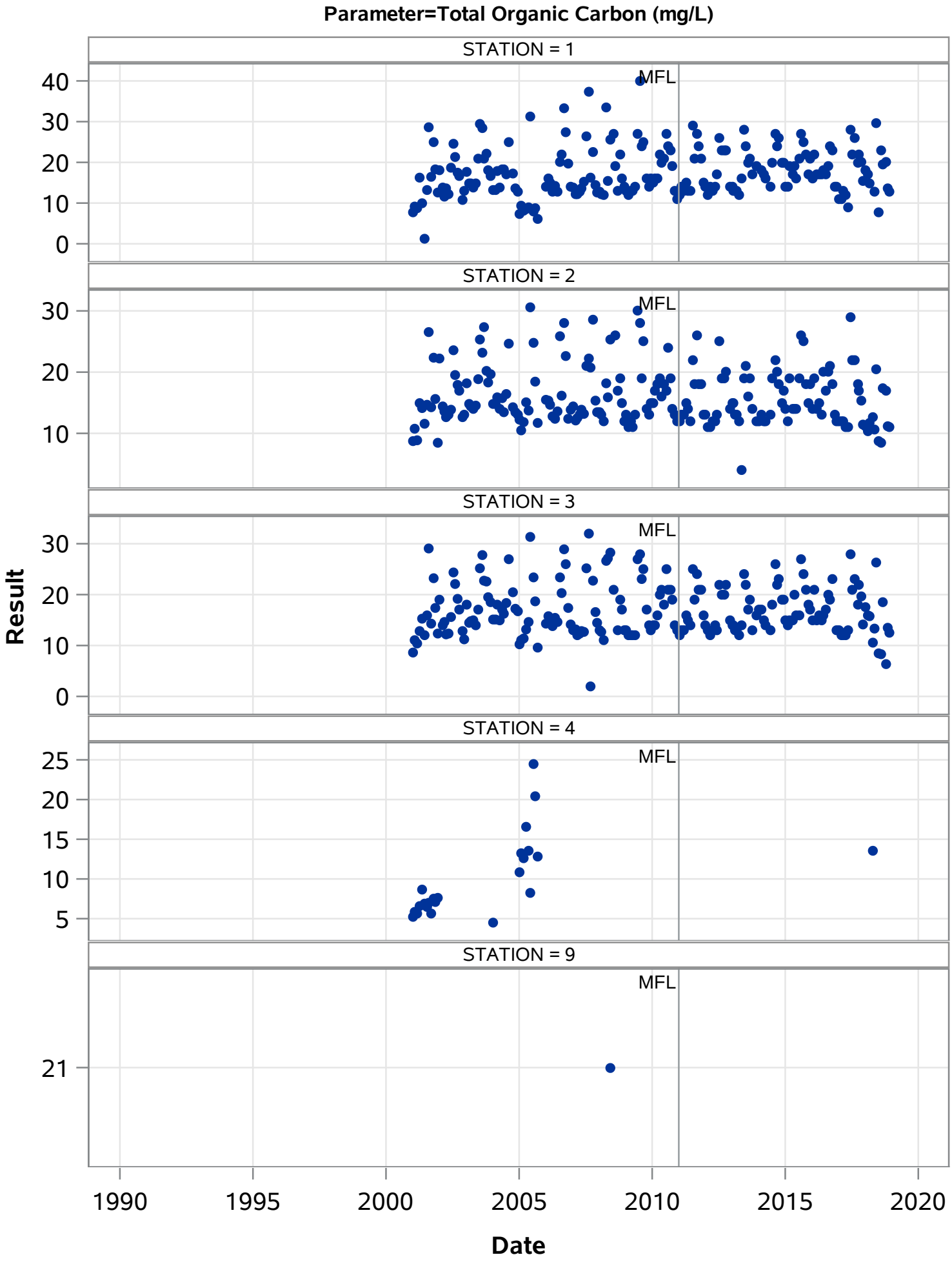

Parameter=Water Column Average Temperature (deg C)
STATION = 16
STATION = 17
STATION = 18
STATION = 19
STATION = 22
MFL
Result
30
25
20
15
10
26.1
1990
1995
2000
2005
2010
2015
2020
Date

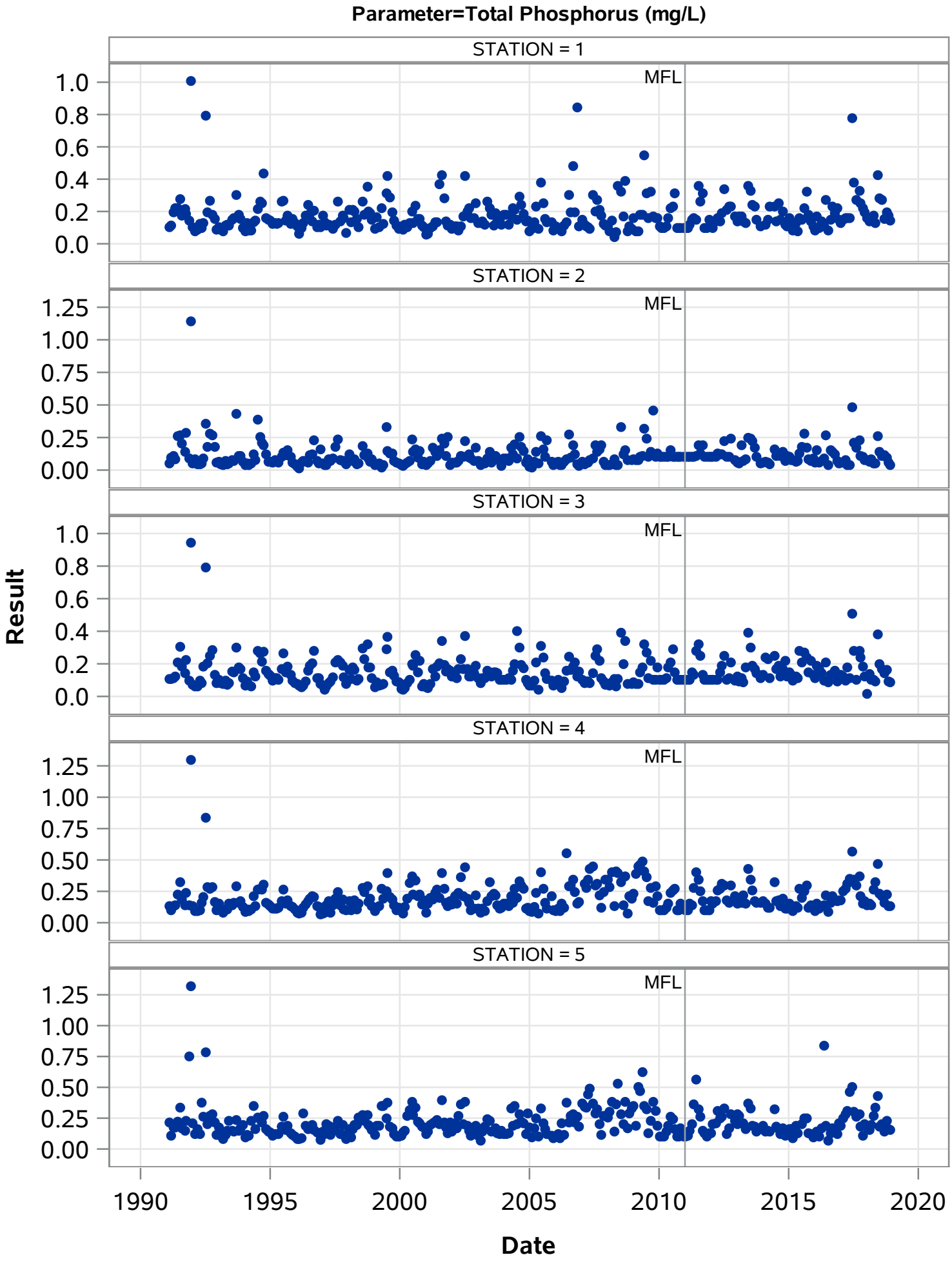

Parameter=Total Kjeldahl Nitrogen (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

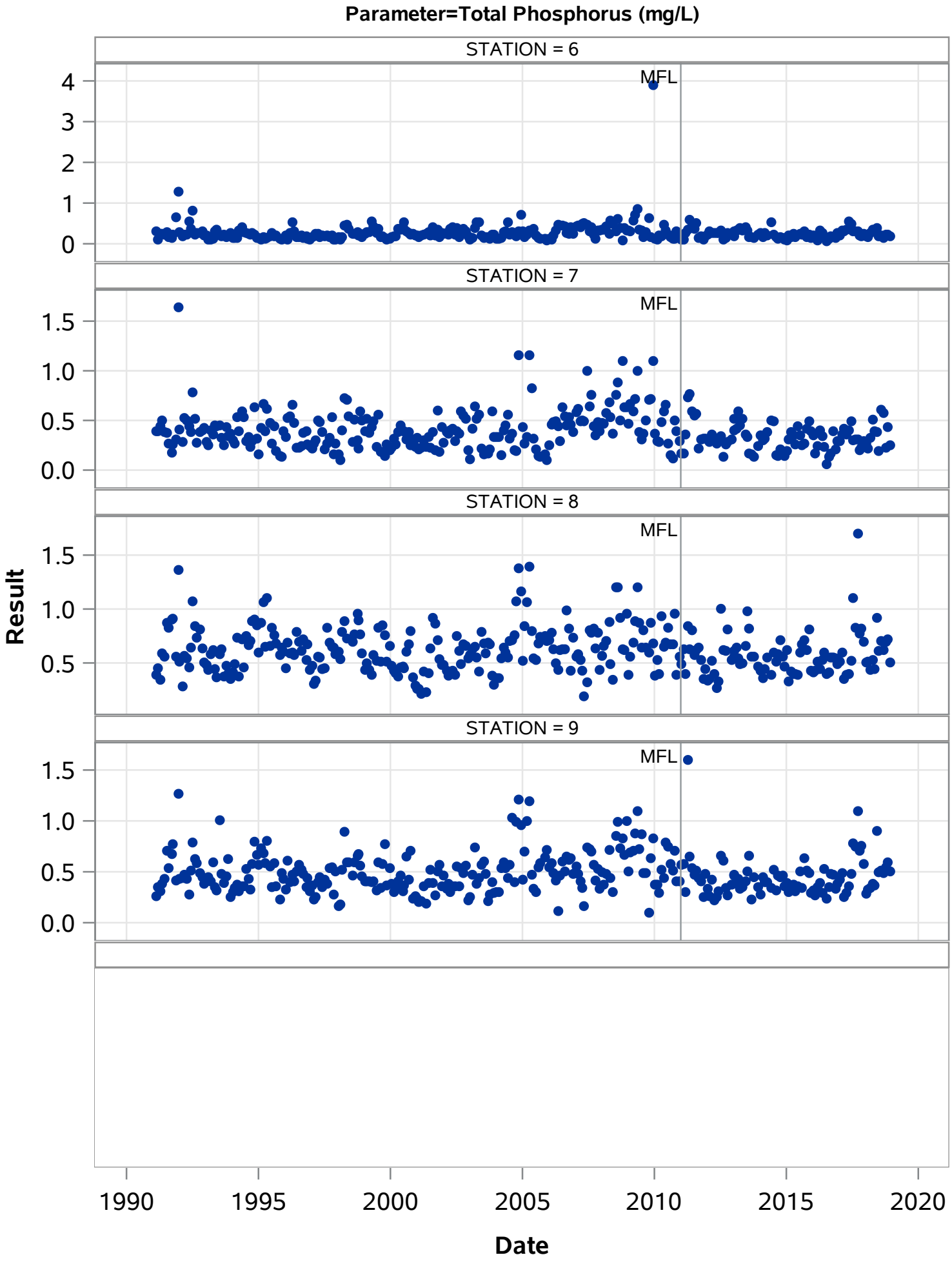

Parameter=Total Kjeldahl Nitrogen (mg/L)
STATION = 6
MFL
2.5
2.0
1.5
1.0
0.5
0.0
STATION = 7
MFL
4
3
2
1
0
STATION = 8
MFL
3
2
1
0
STATION = 9
MFL
5
4
3
2
1
0
Result
1990
1995
2000
2005
2010
2015
2020
Date

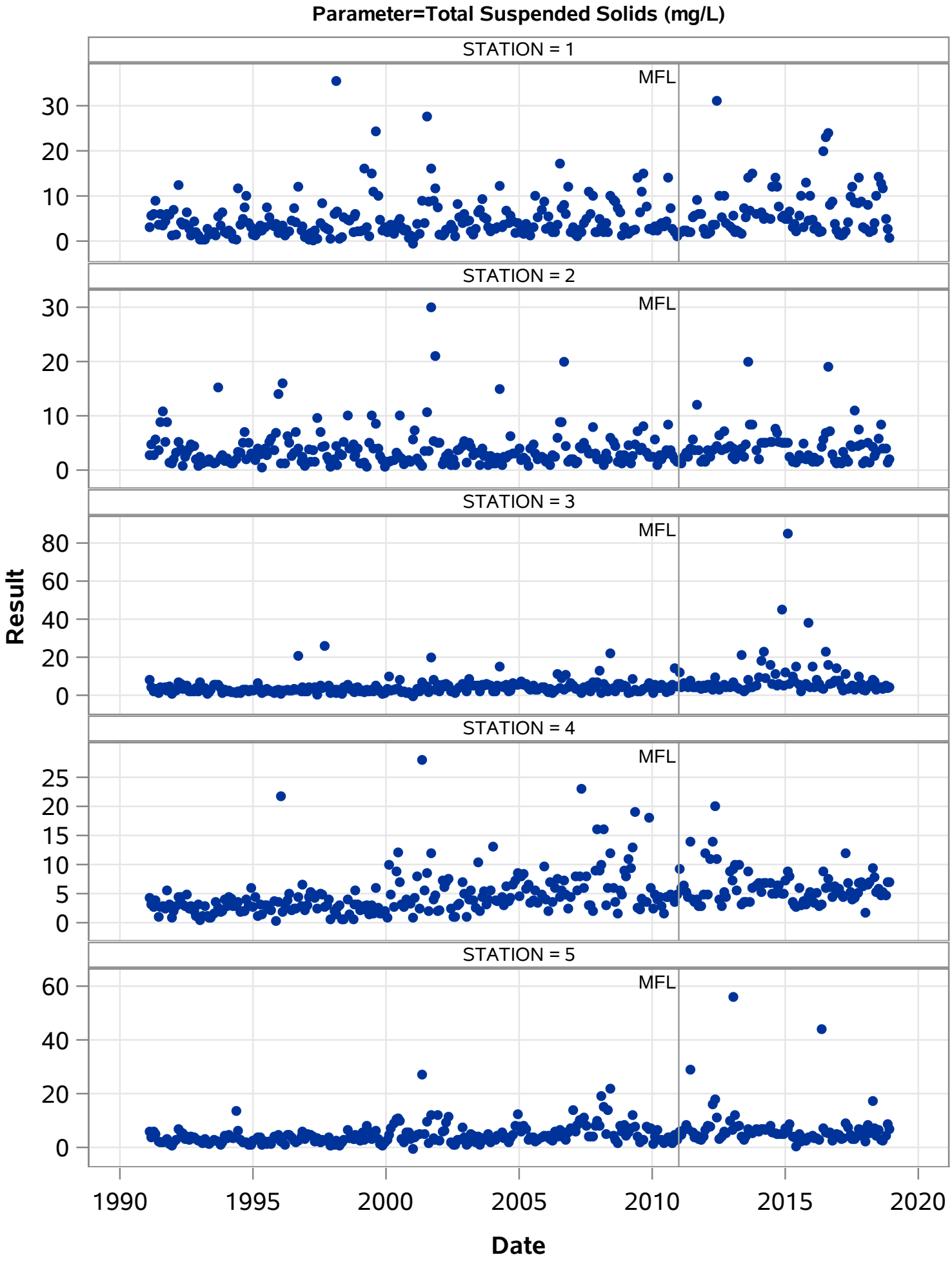

Parameter=Total Nitrogen (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

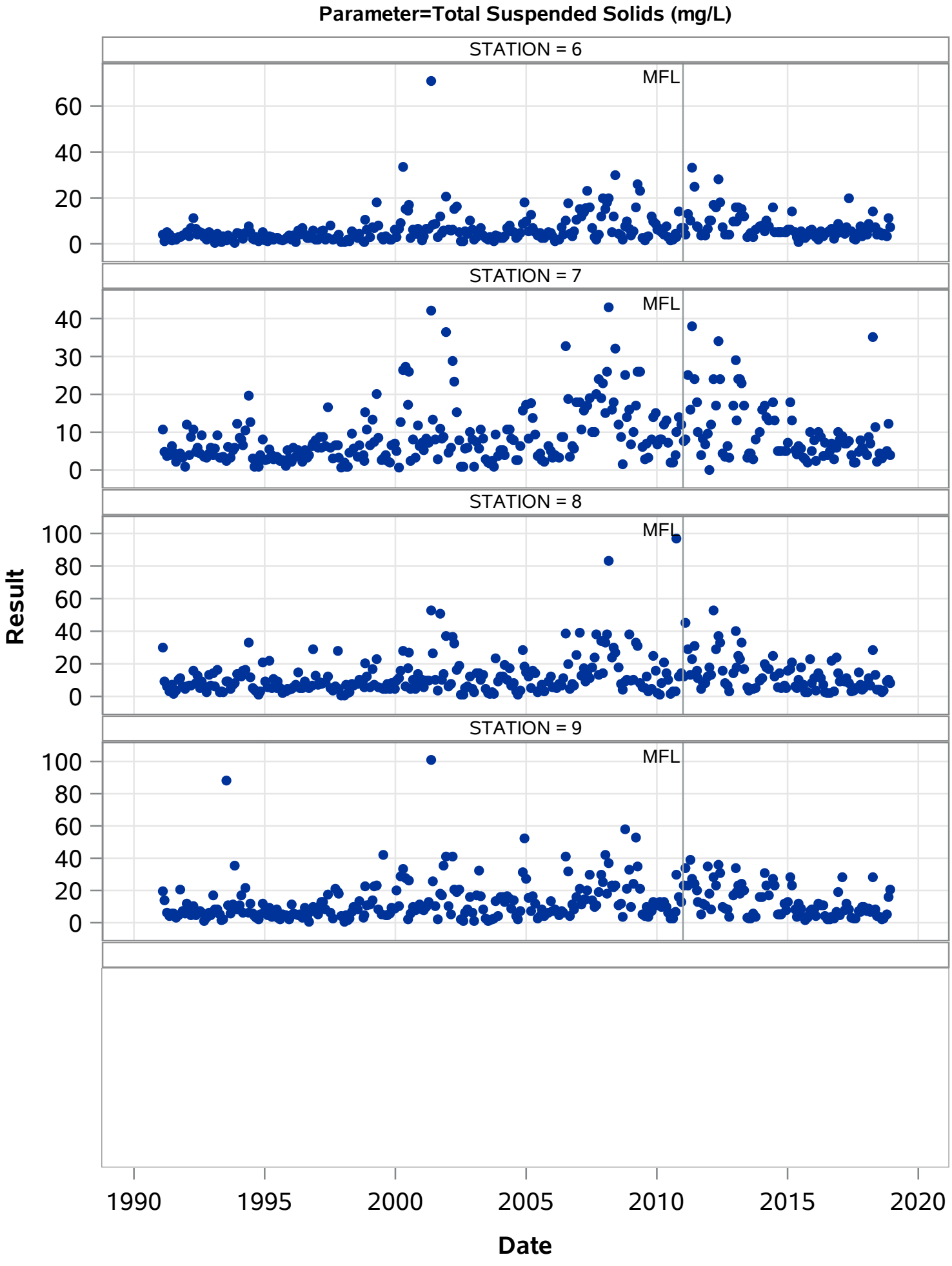

Parameter=Total Nitrogen (mg/L)
STATION = 6
MFL
2.5
2.0
1.5
1.0
0.5
0.0
STATION = 7
MFL
4
3
2
1
0
STATION = 8
MFL
4
3
2
1
0
STATION = 9
MFL
5
4
3
2
1
0
Result
1990
1995
2000
2005
2010
2015
2020
Date

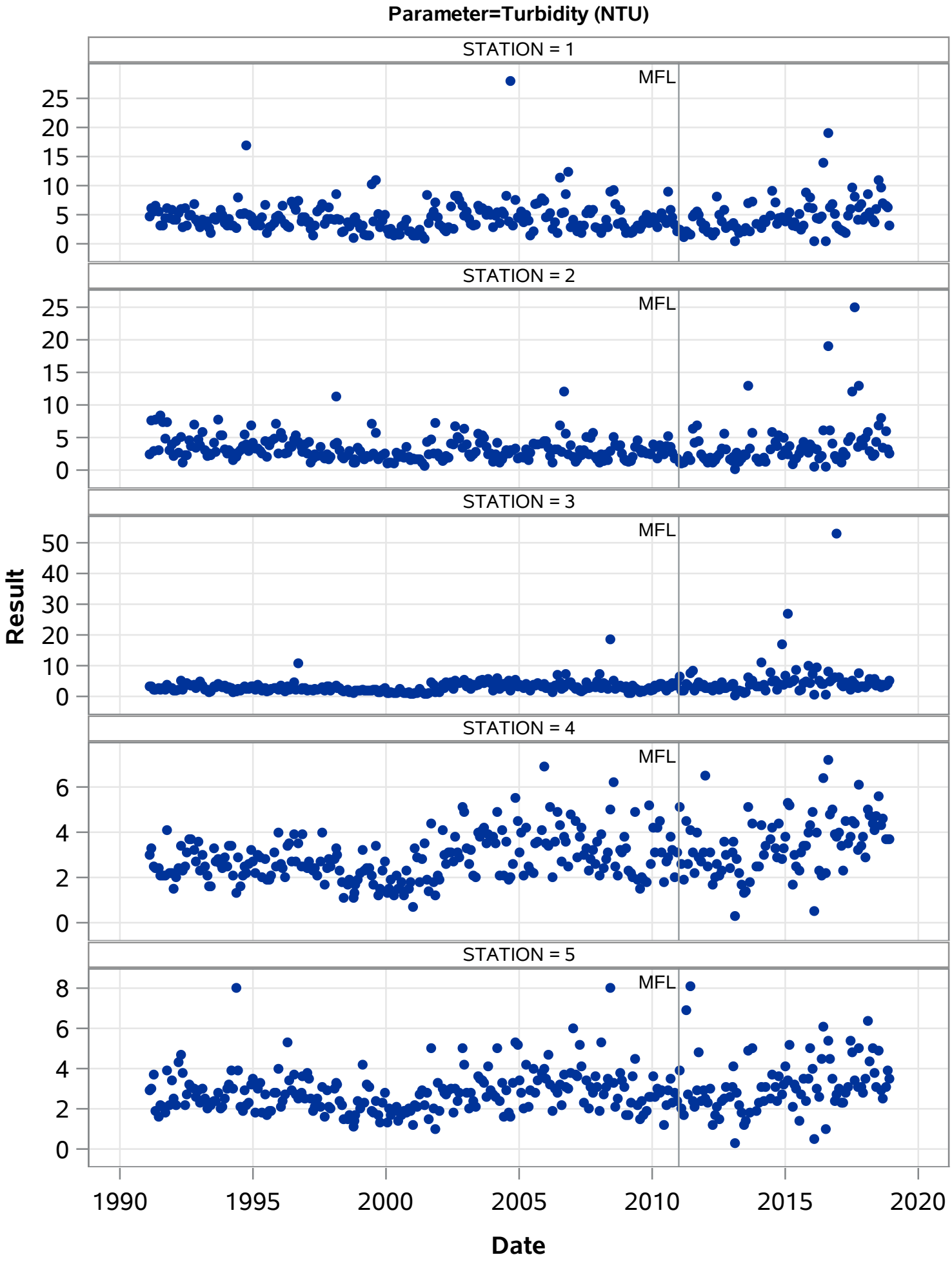

Parameter=Total Organic Carbon (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 9
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

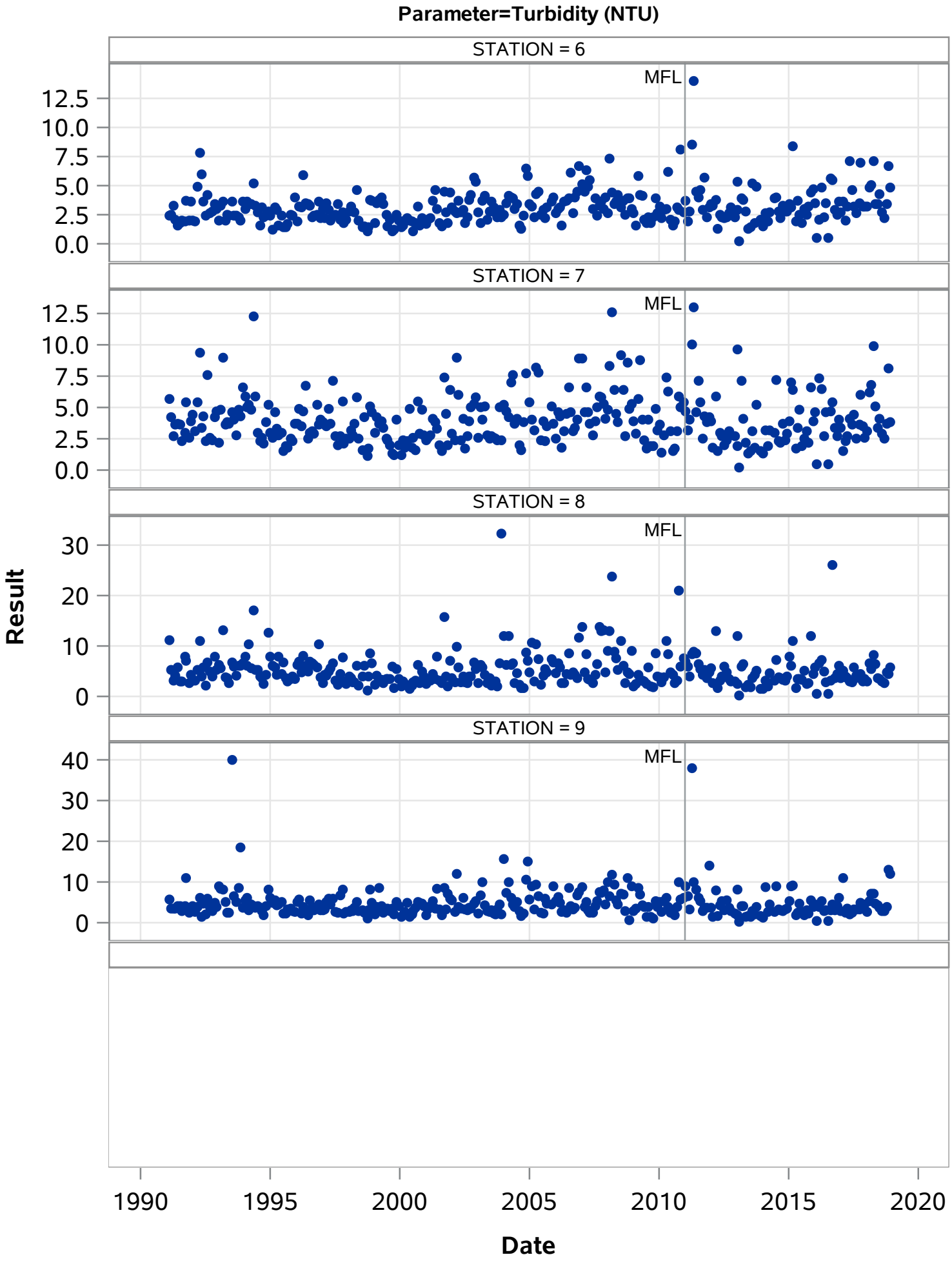

Parameter=Total Phosphorus (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

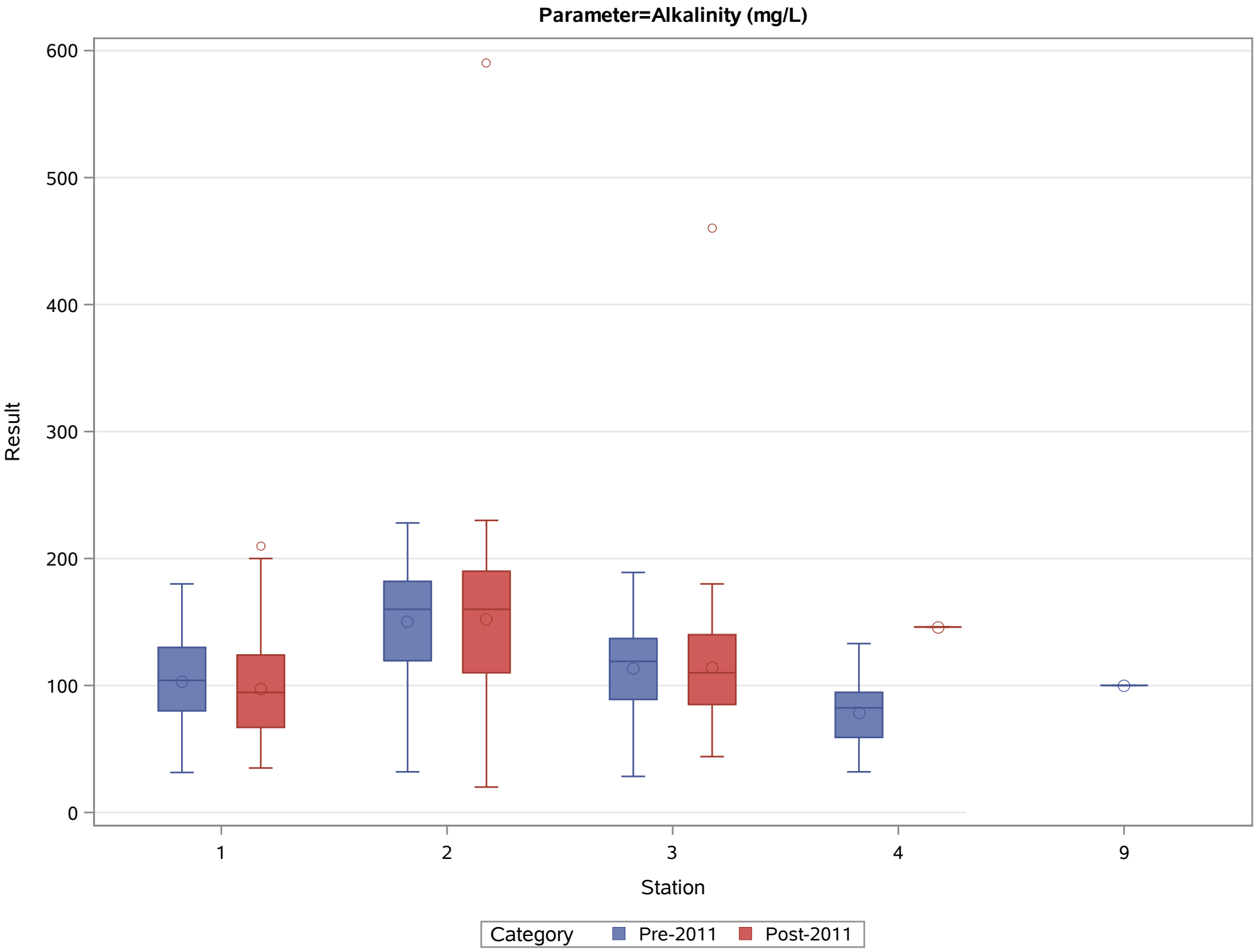

Parameter=Total Phosphorus (mg/L)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

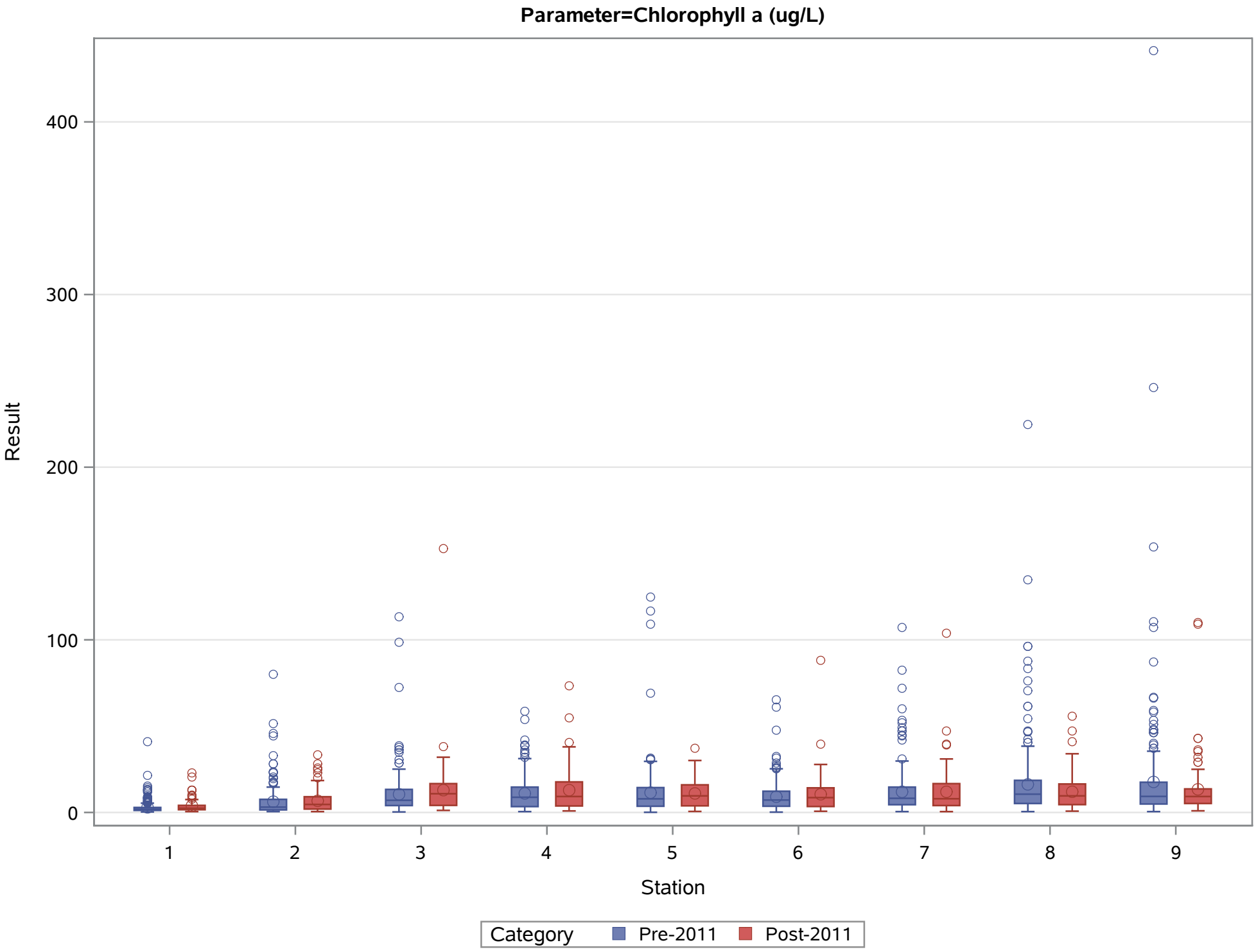

Parameter=Total Suspended Solids (mg/L)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

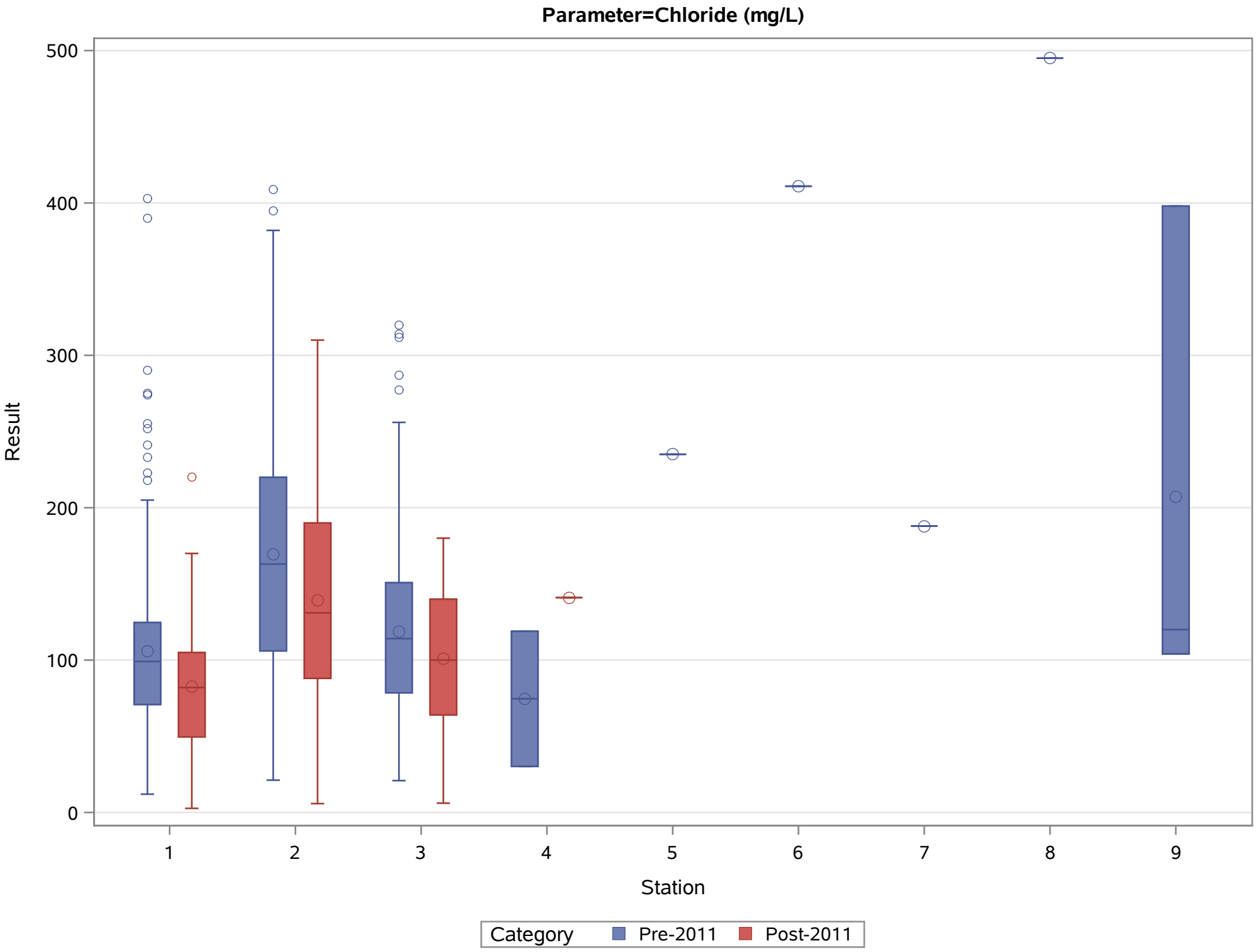

Parameter=Total Suspended Solids (mg/L)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

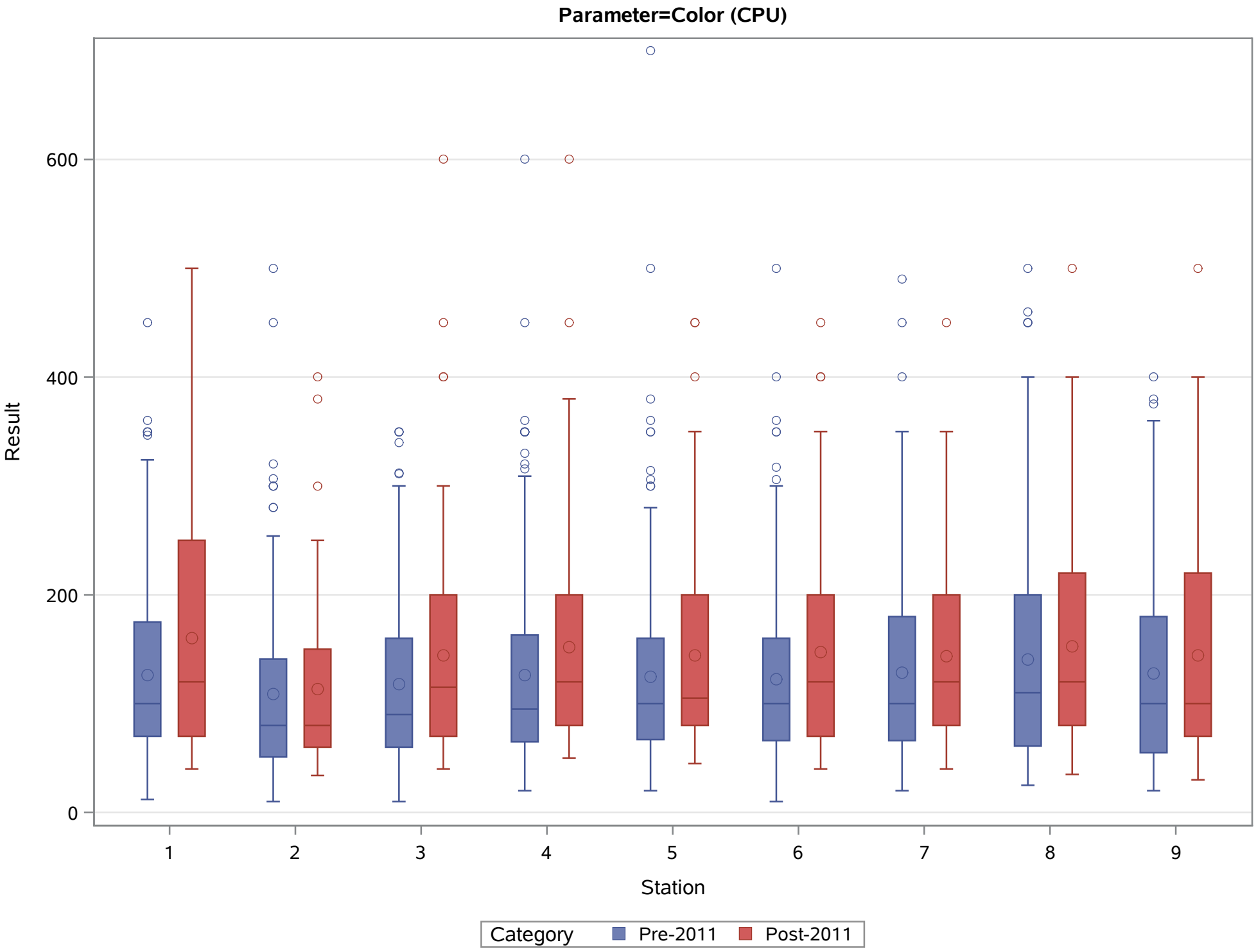

Parameter=Turbidity (NTU)
STATION = 1
STATION = 2
STATION = 3
STATION = 4
STATION = 5
MFL
Result
Date
1990
1995
2000
2005
2010
2015
2020

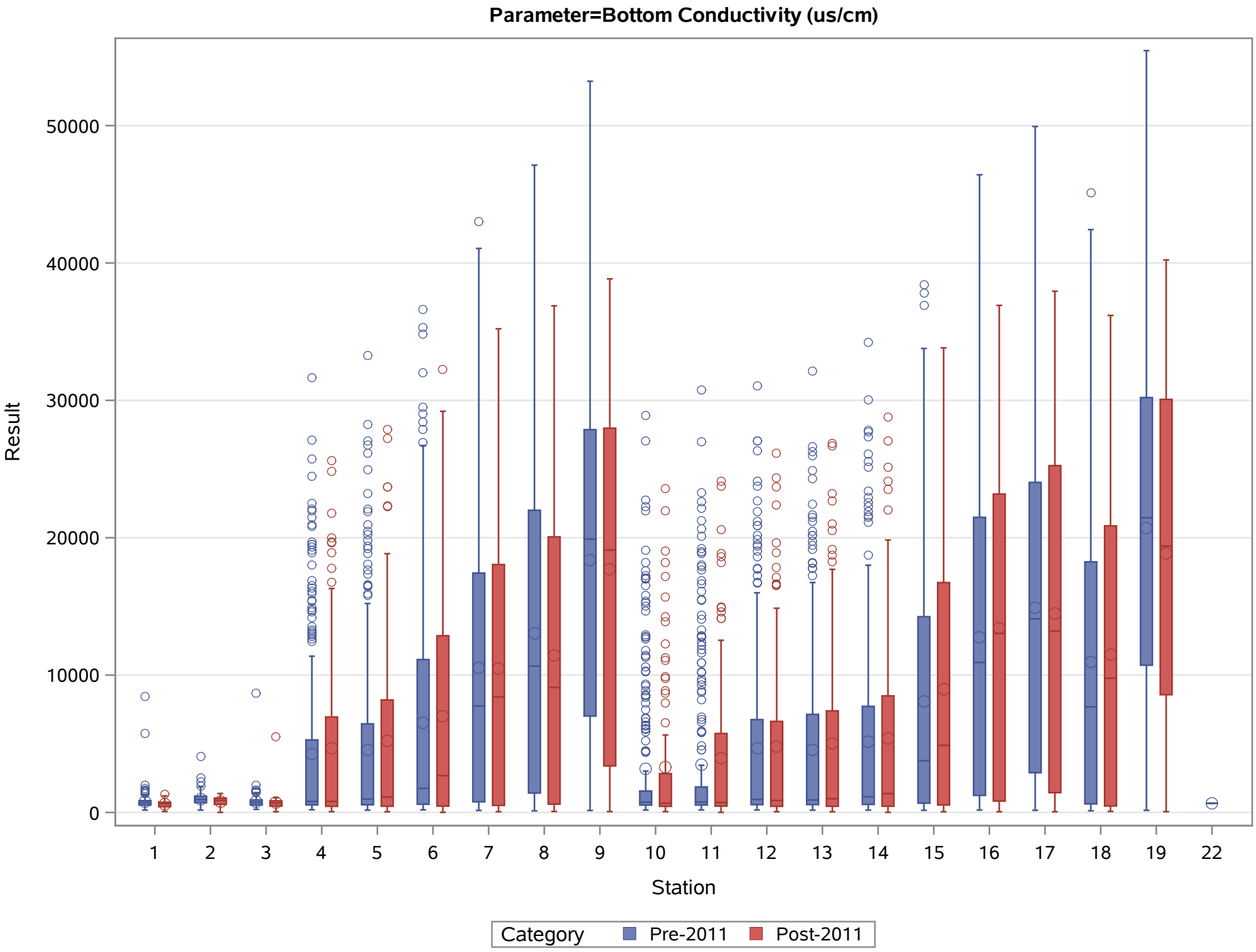

Parameter=Turbidity (NTU)
STATION = 6
STATION = 7
STATION = 8
STATION = 9
MFL
Result
Date
0.0
2.5
5.0
7.5
10.0
12.5
0
10
20
30
40
1990
1995
2000
2005
2010
2015
2020

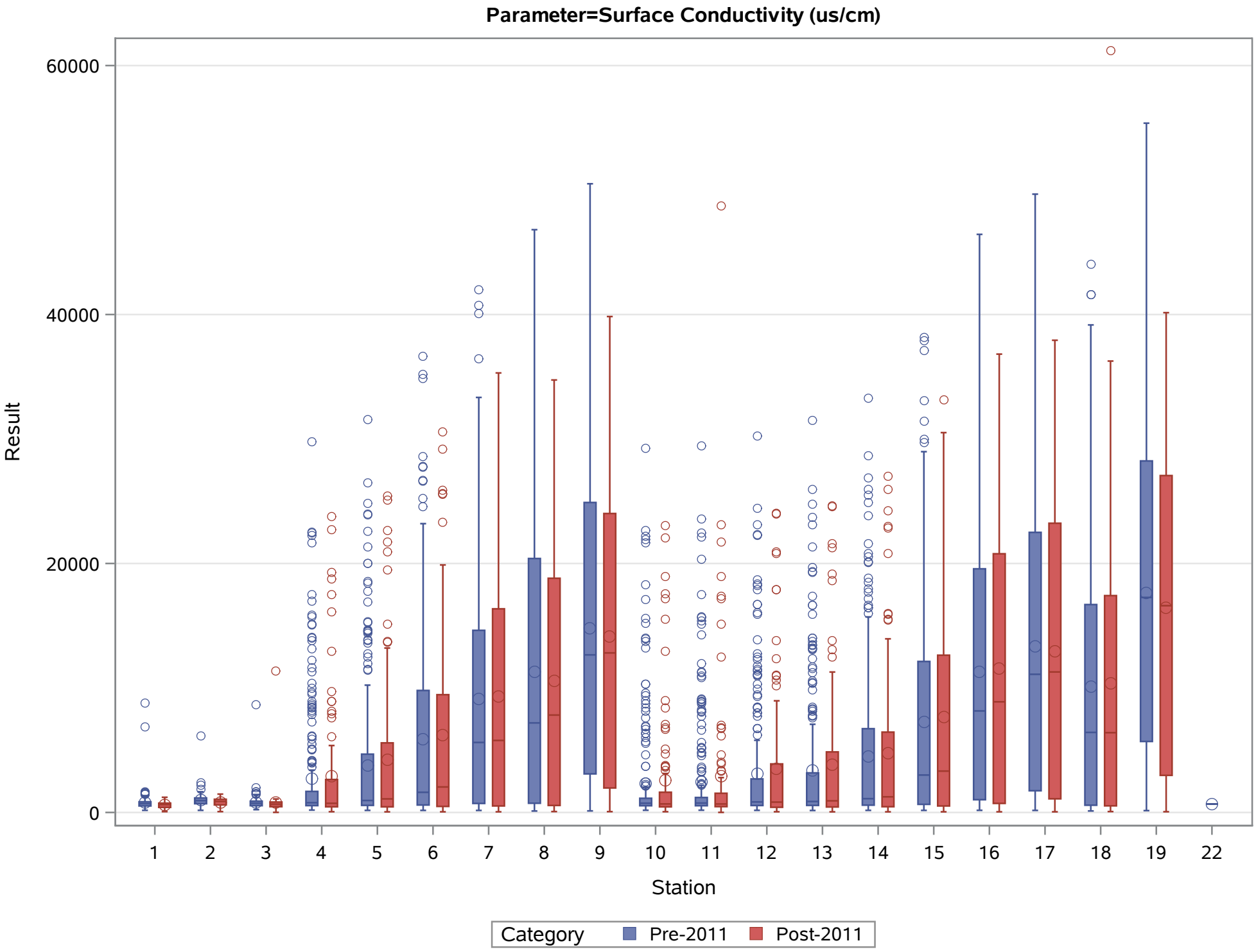

Parameter=Alkalinity (mg/L)
600
500
400
300
200
100
0
Result
1
2
3
4
9
Station
Category
Pre-2011
Post-2011

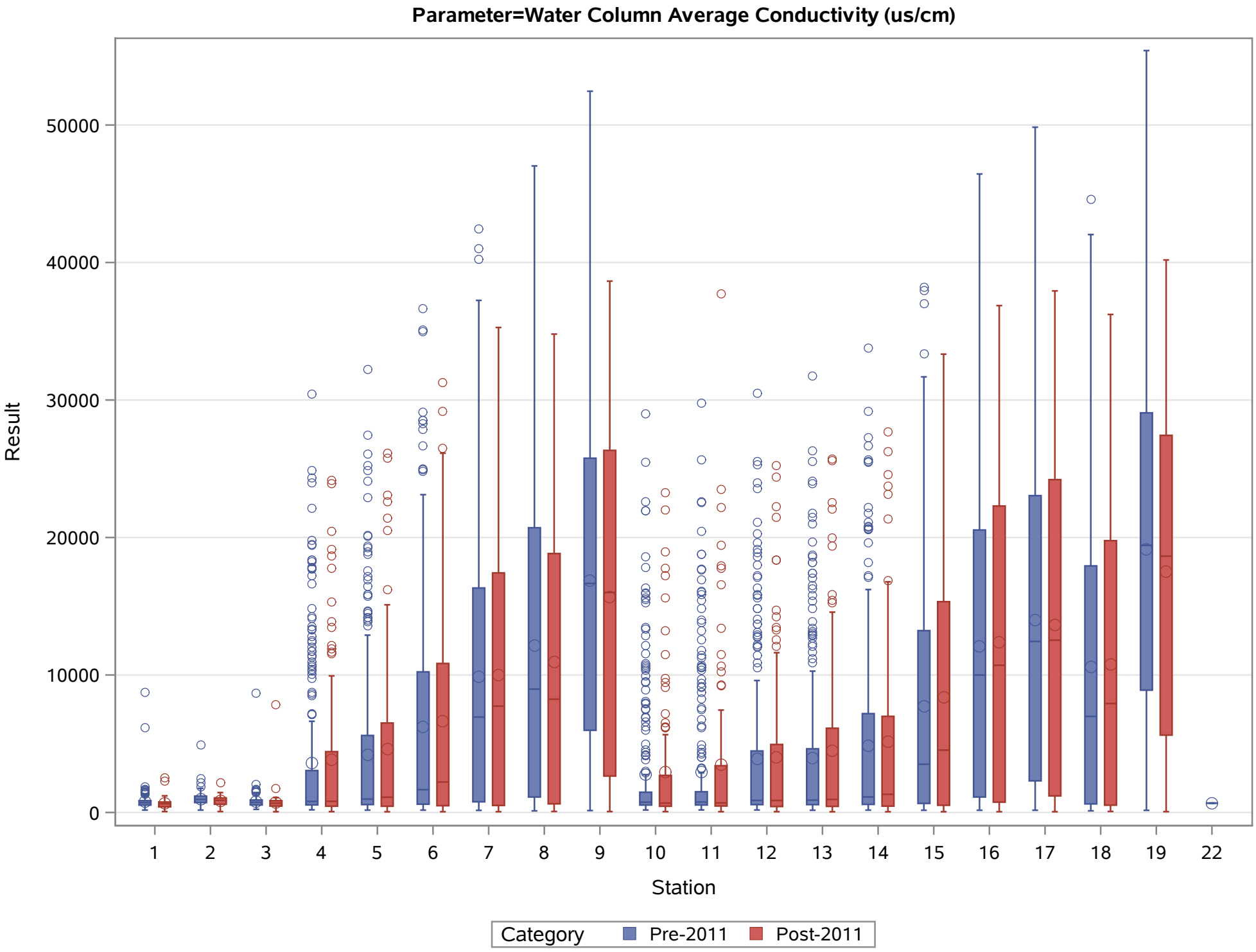

Parameter=Chlorophyll a (ug/L)
Result
400
300
200
100
0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

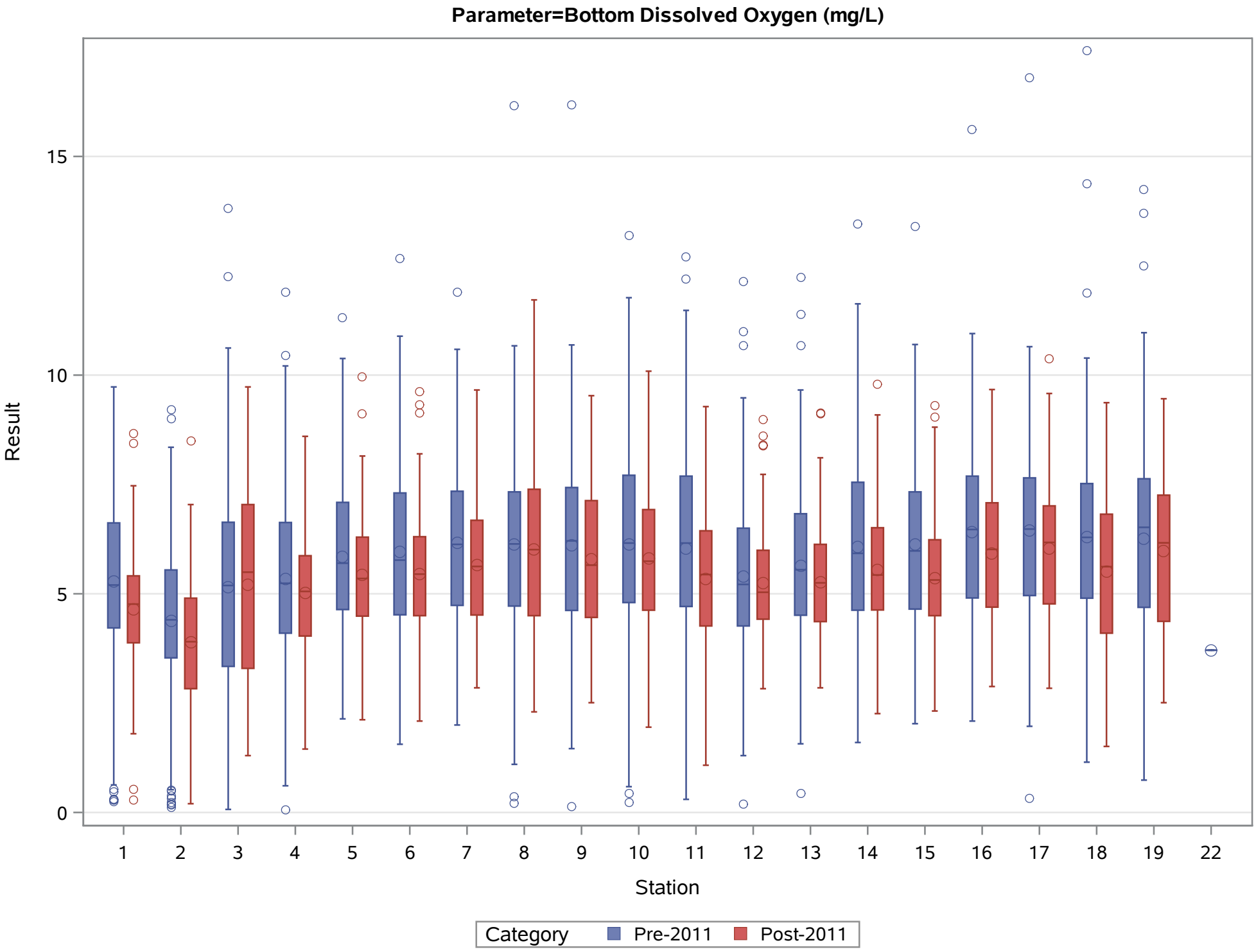

Parameter=Chloride (mg/L)
Result
500
400
300
200
100
0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

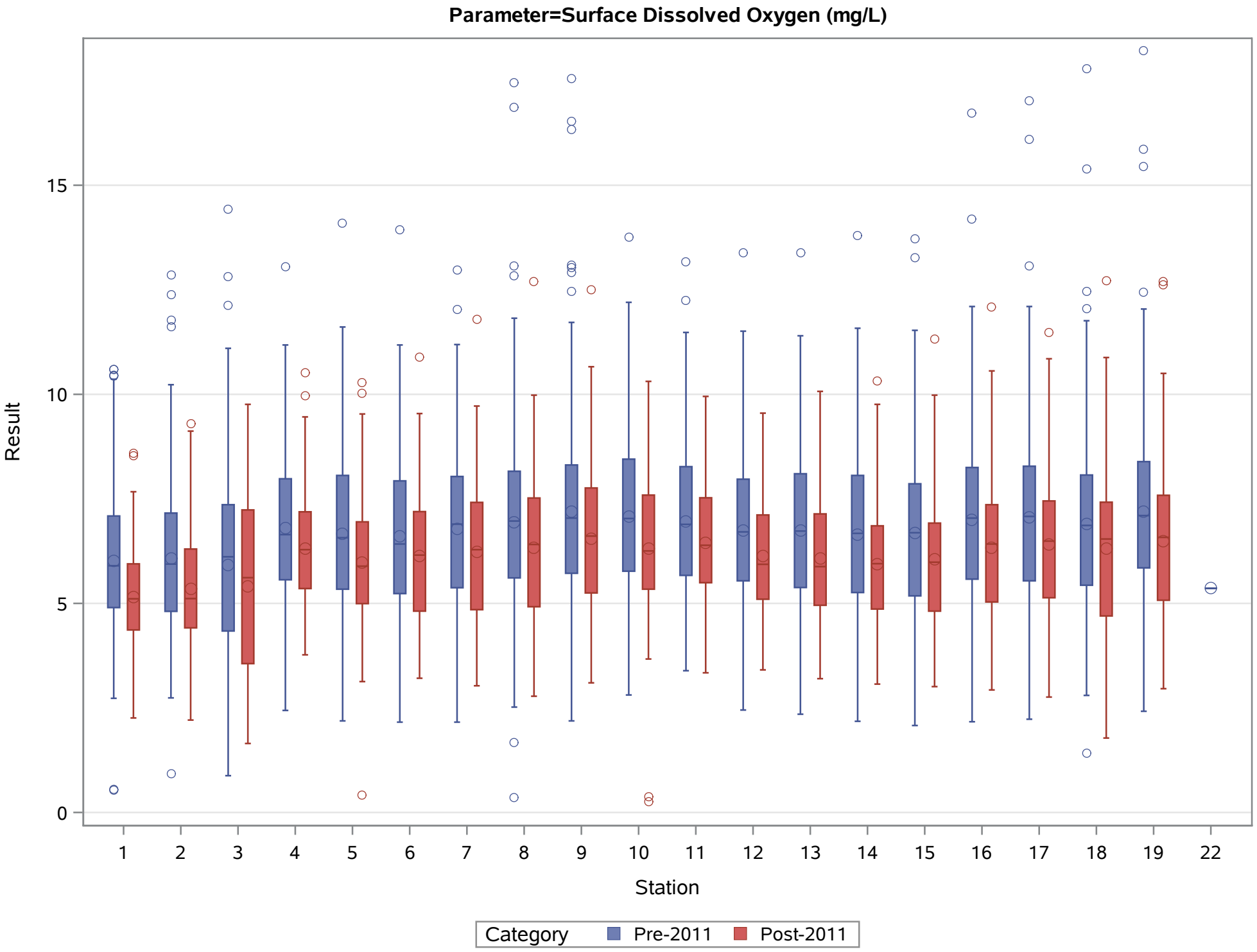

Parameter=Color (CPU)
Result
600
400
200
0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

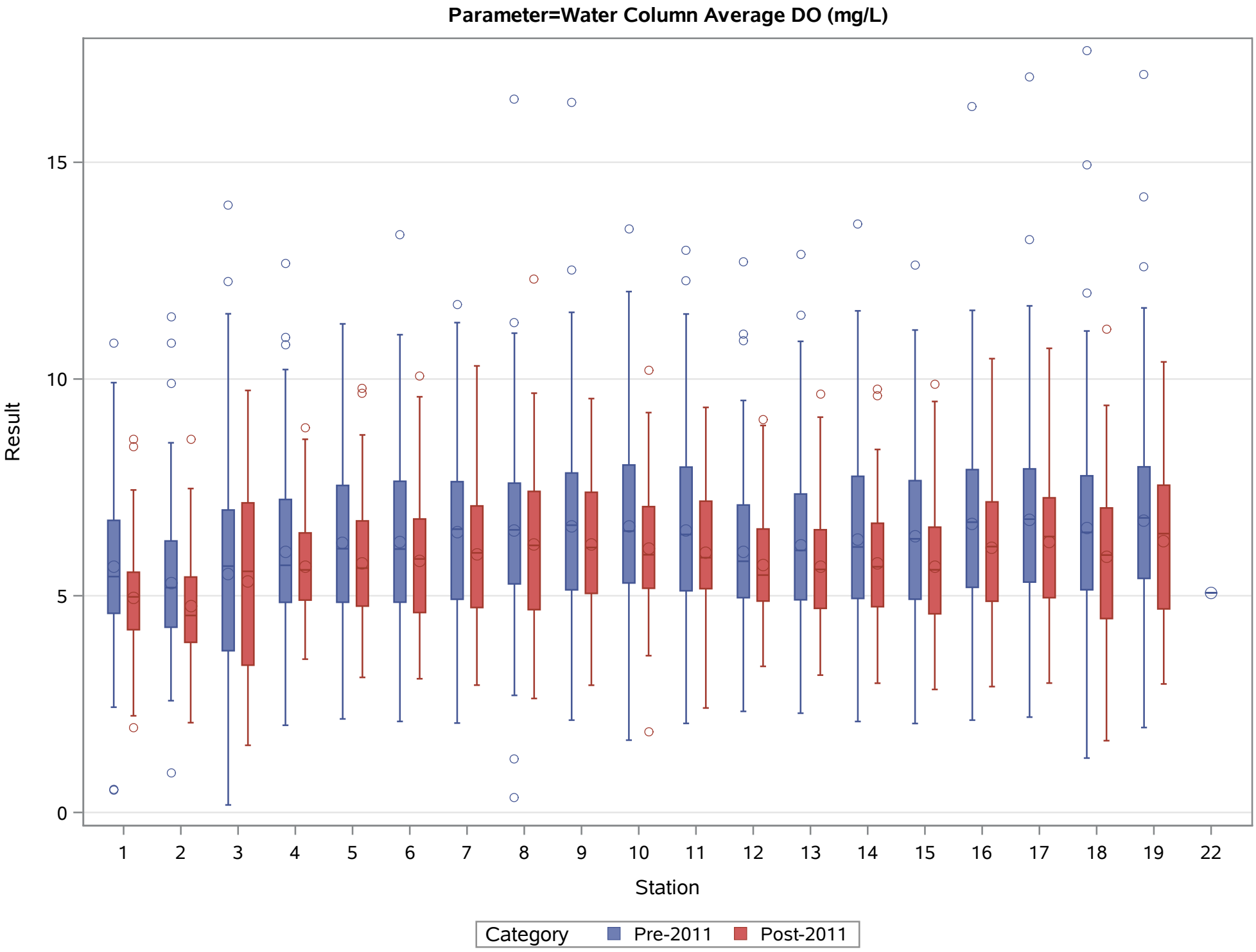

Parameter=Bottom Conductivity (us/cm)
Result
50000
40000
30000
20000
10000
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

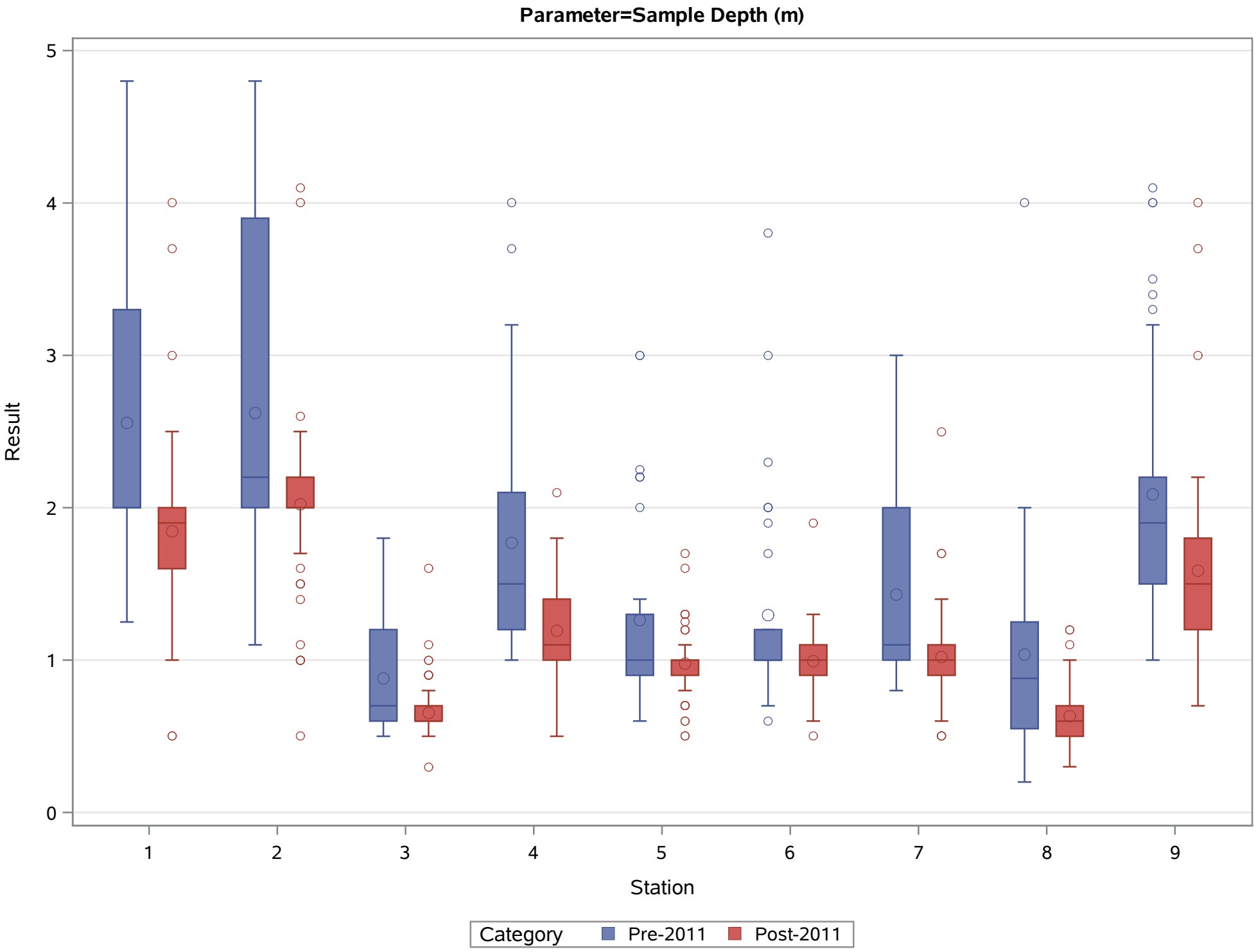

Parameter=Surface Conductivity (us/cm)
60000
40000
20000
0
Result
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

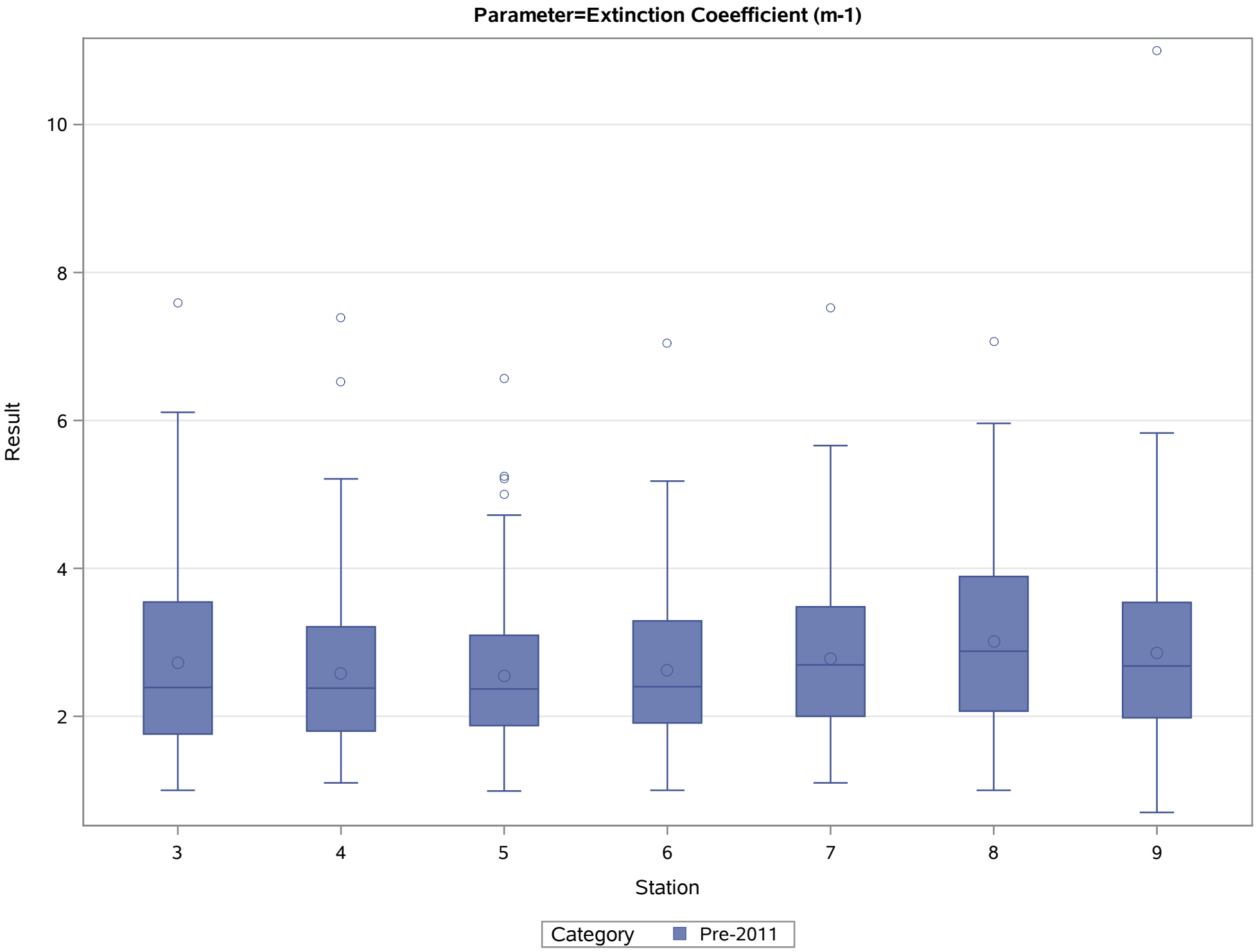

Parameter=Water Column Average Conductivity (us/cm)
Result
50000
40000
30000
20000
10000
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

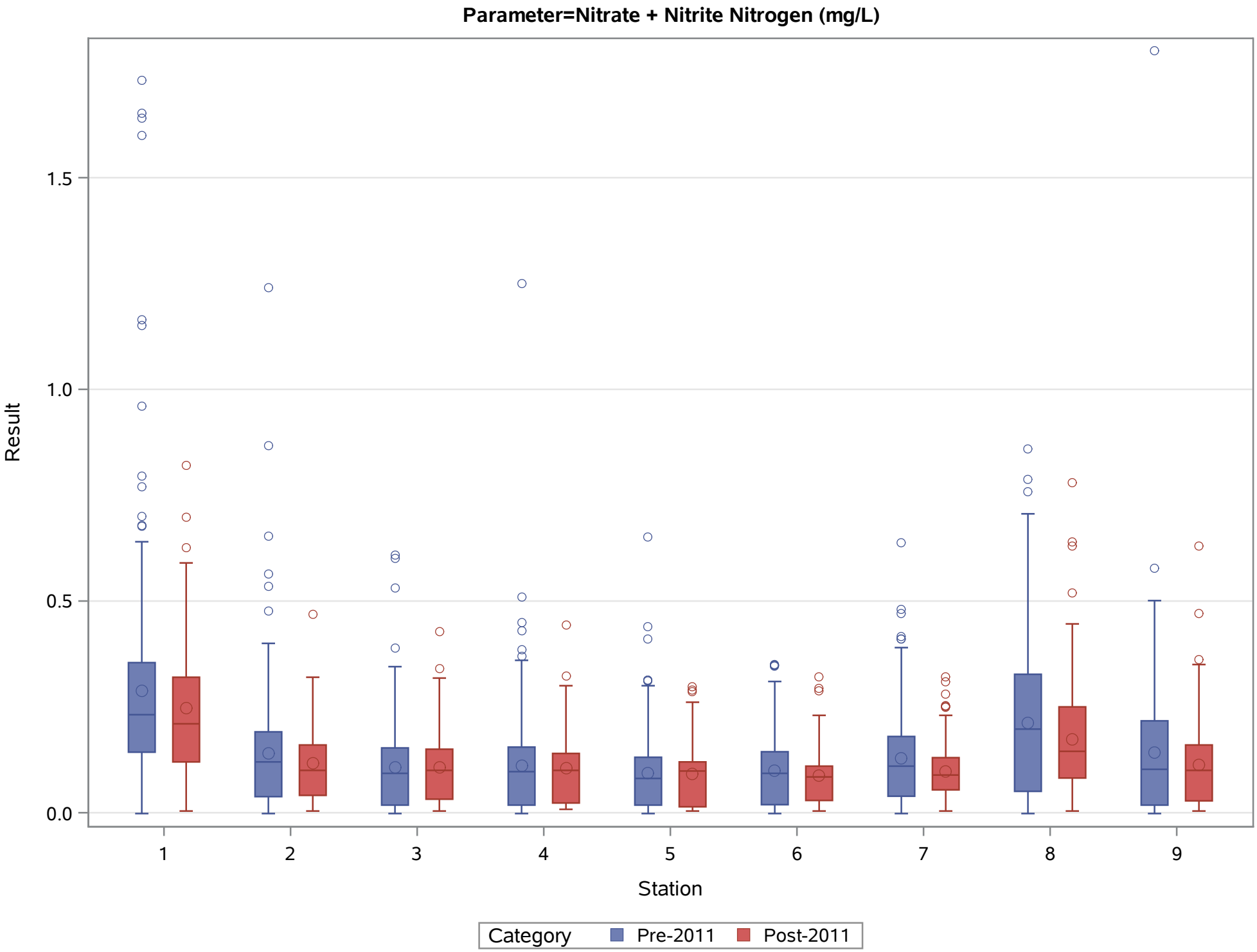

Parameter=Bottom Dissolved Oxygen (mg/L)
Result
15
10
5
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

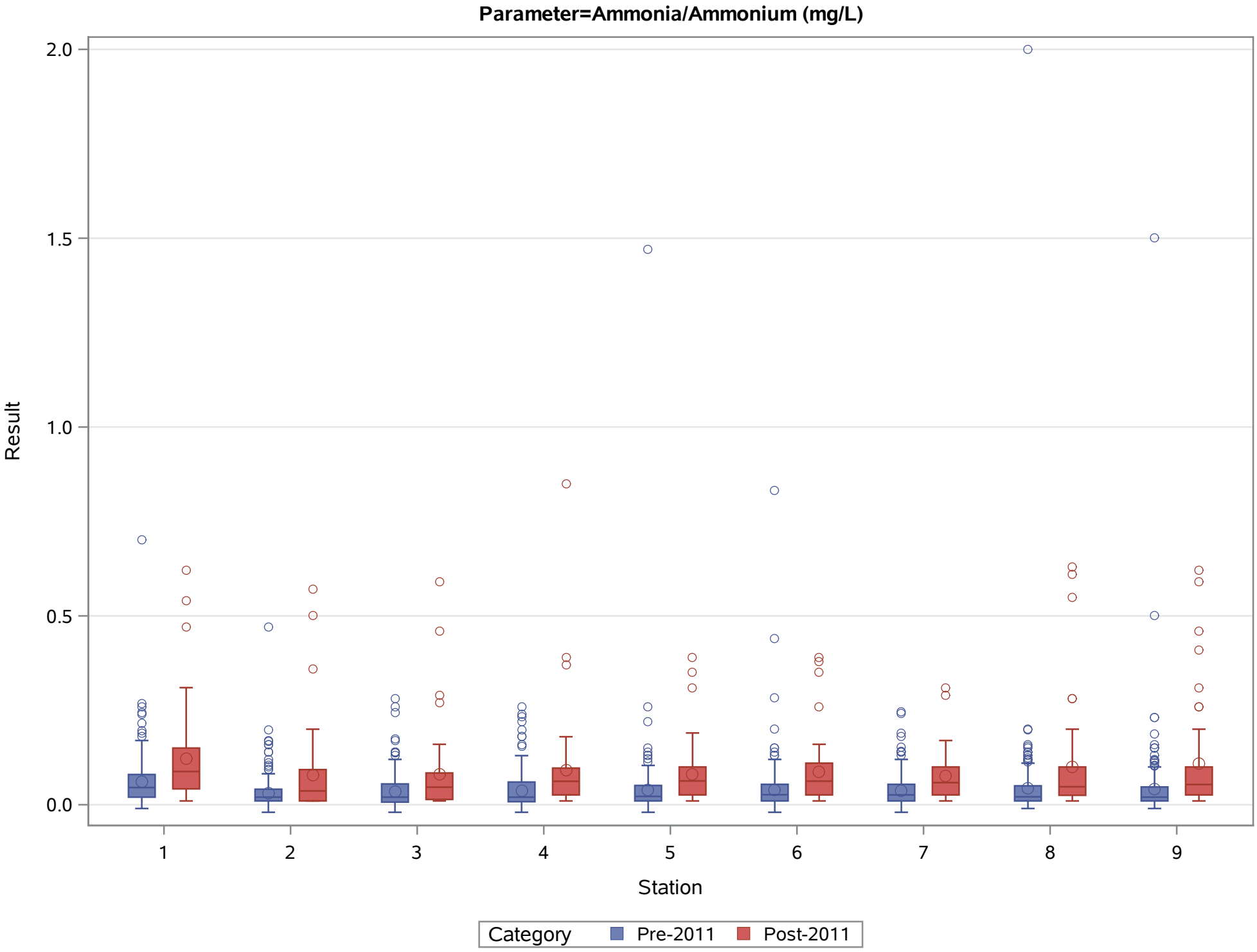

Parameter=Surface Dissolved Oxygen (mg/L)
Result
15
10
5
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

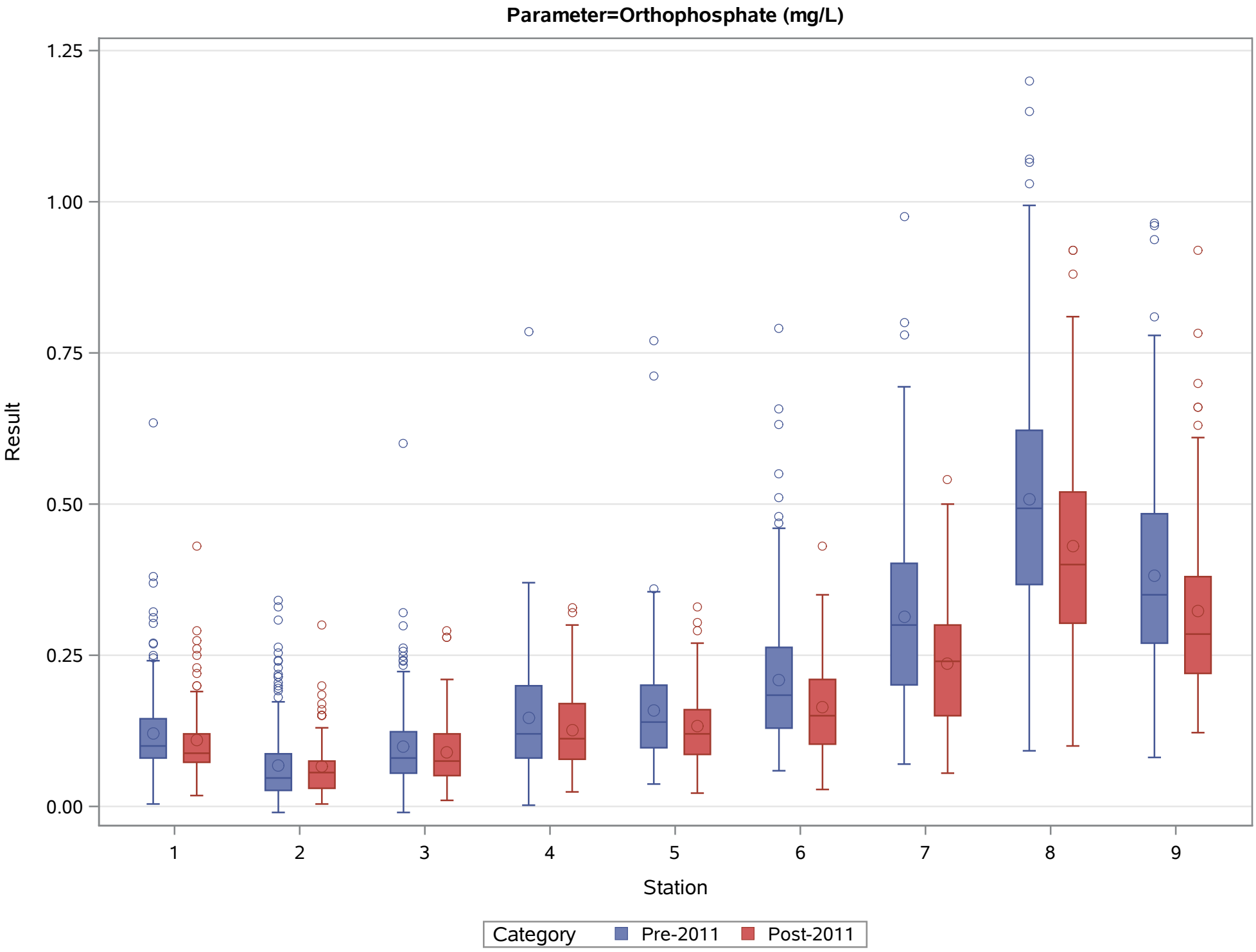

Parameter=Water Column Average DO (mg/L)
Result
0
5
10
15
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

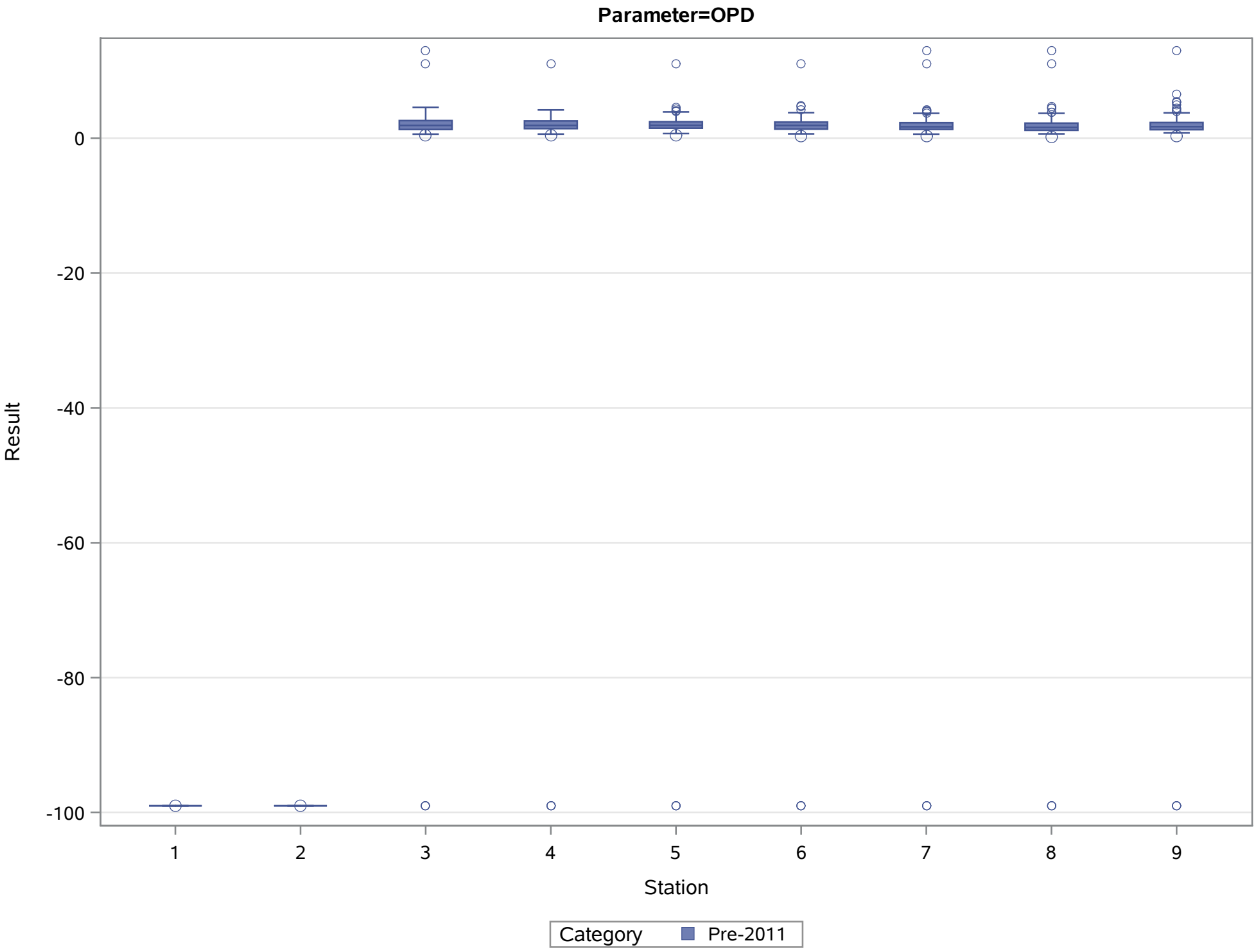

Parameter=Sample Depth (m)
Result
0
1
2
3
4
5
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

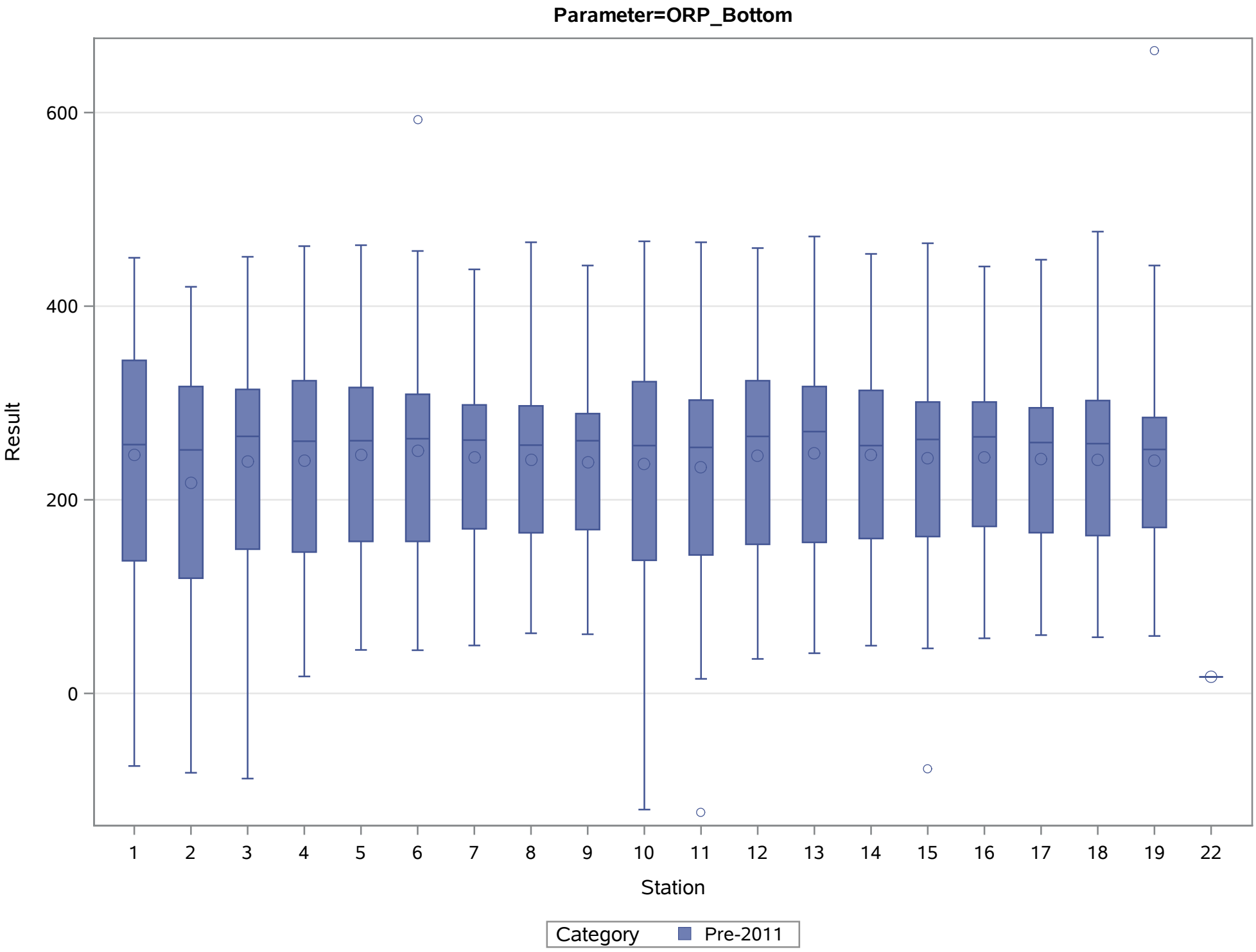

Parameter=Extinction Coeefficient (m-1)
Result
10
8
6
4
2
3
4
5
6
7
8
9
Station
Category
Pre-2011

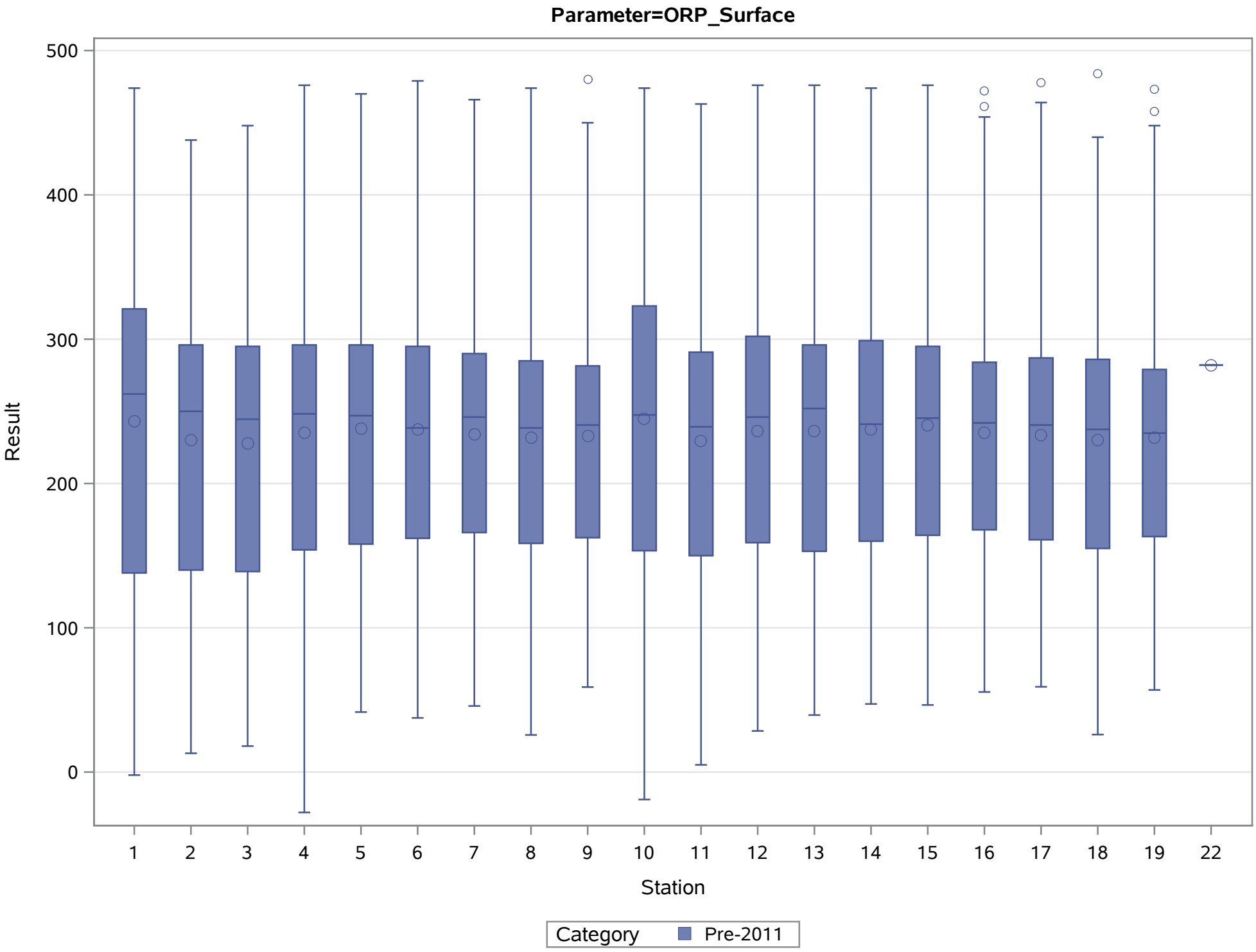

Parameter=Nitrate + Nitrite Nitrogen (mg/L)
Result
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

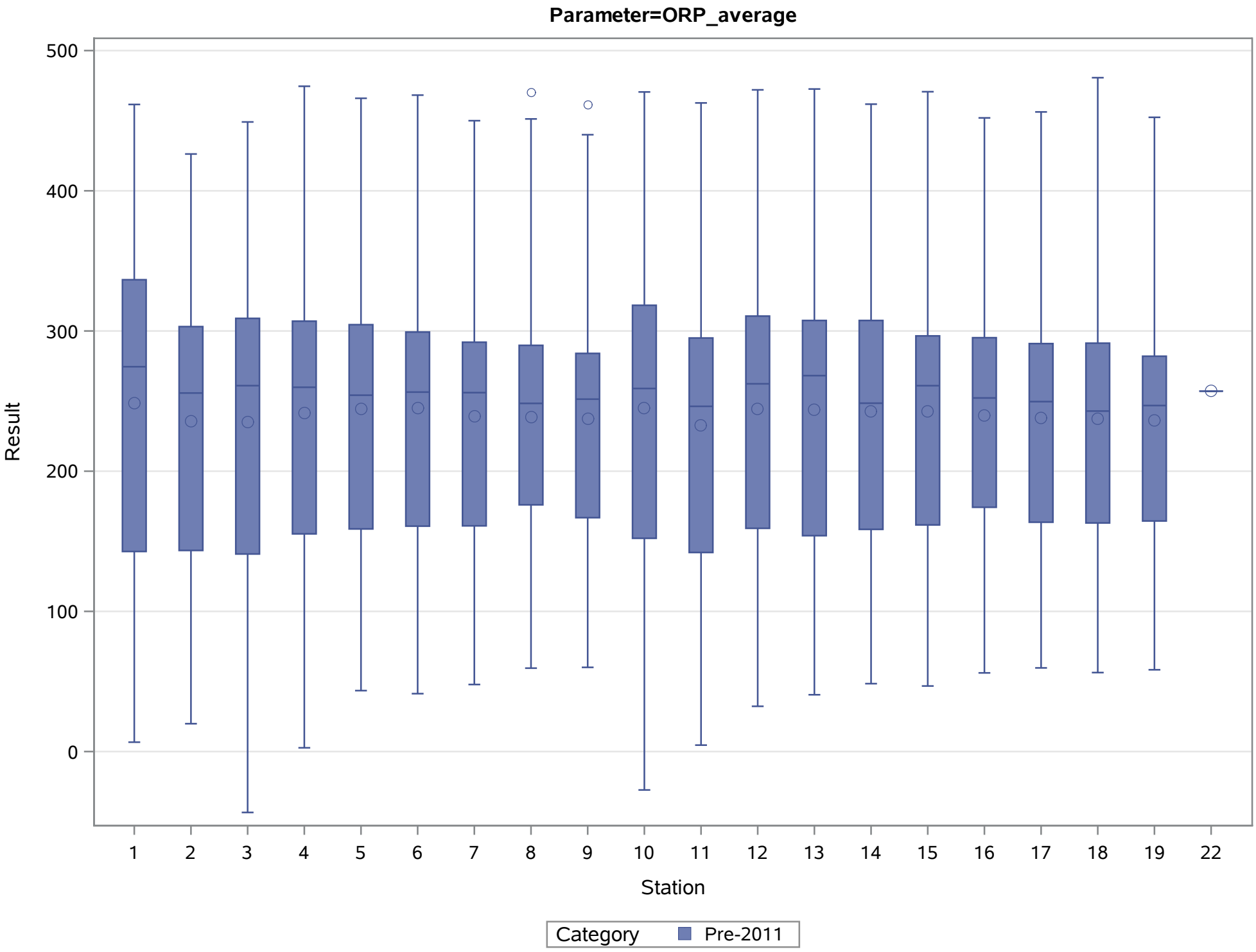

Parameter=Ammonia/Ammonium (mg/L)
Result
2.0
1.5
1.0
0.5
0.0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

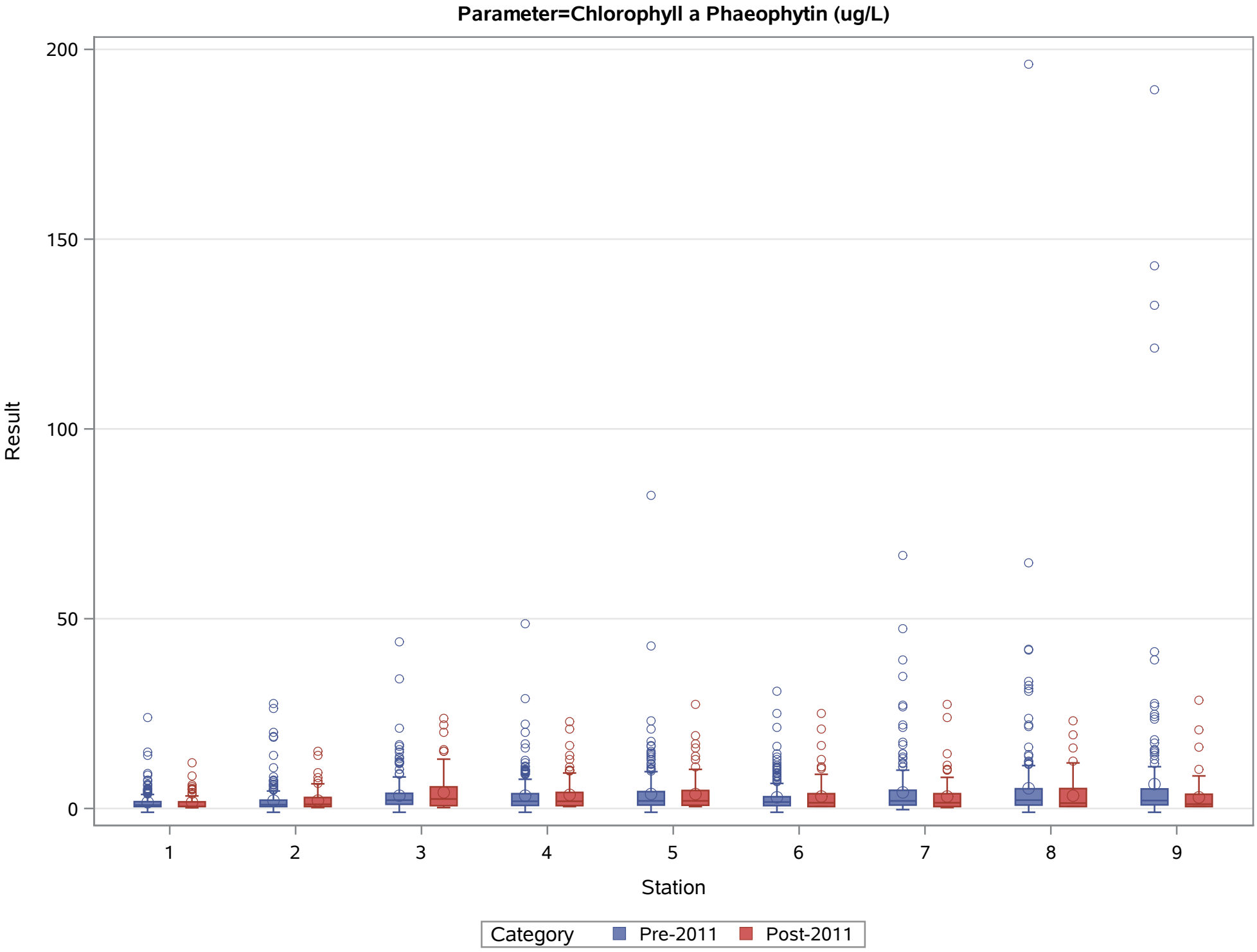

Parameter=Orthophosphate (mg/L)
Result
1.25
1.00
0.75
0.50
0.25
0.00
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

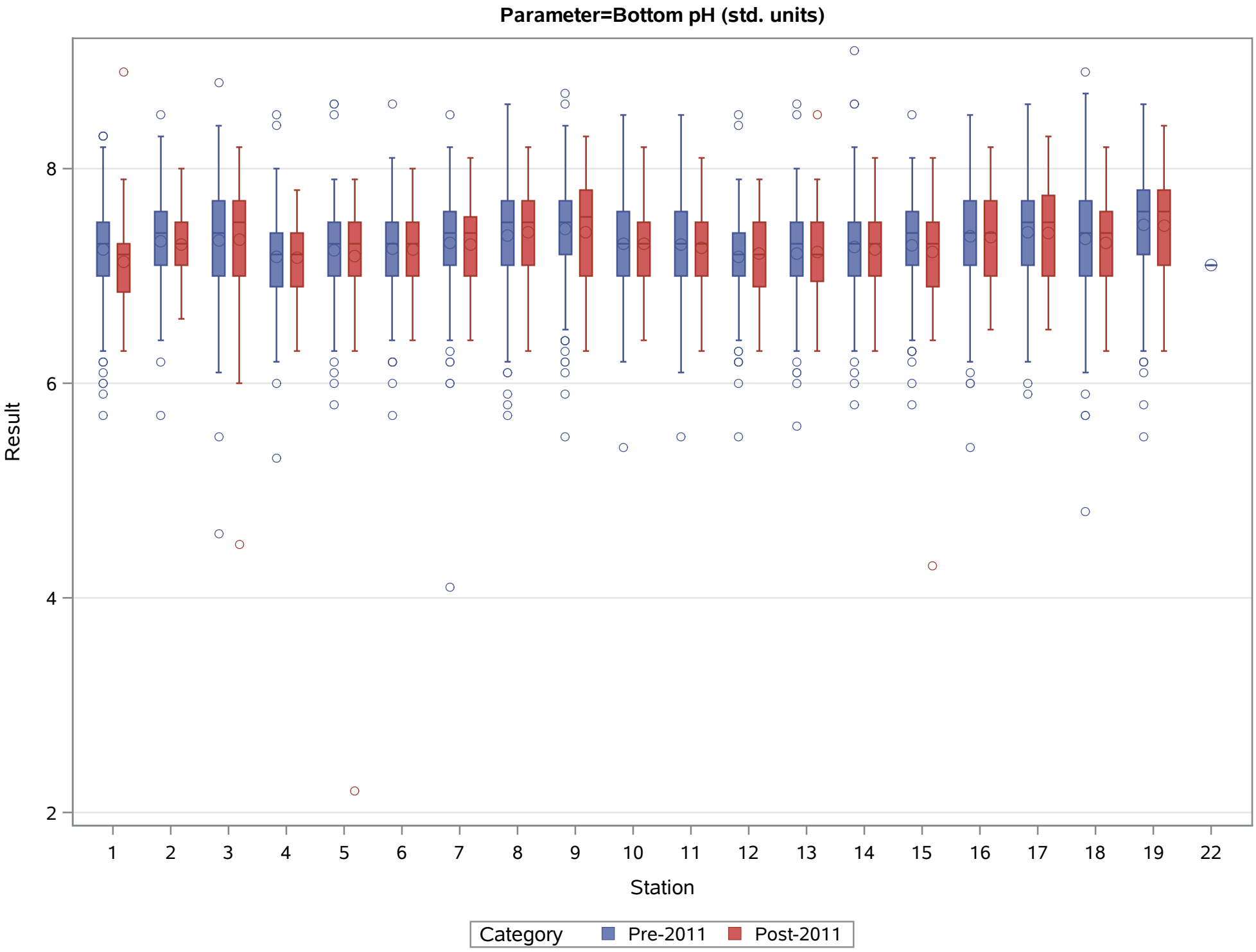

Parameter=OPD
0
-20
-40
-60
-80
-100
Result
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011

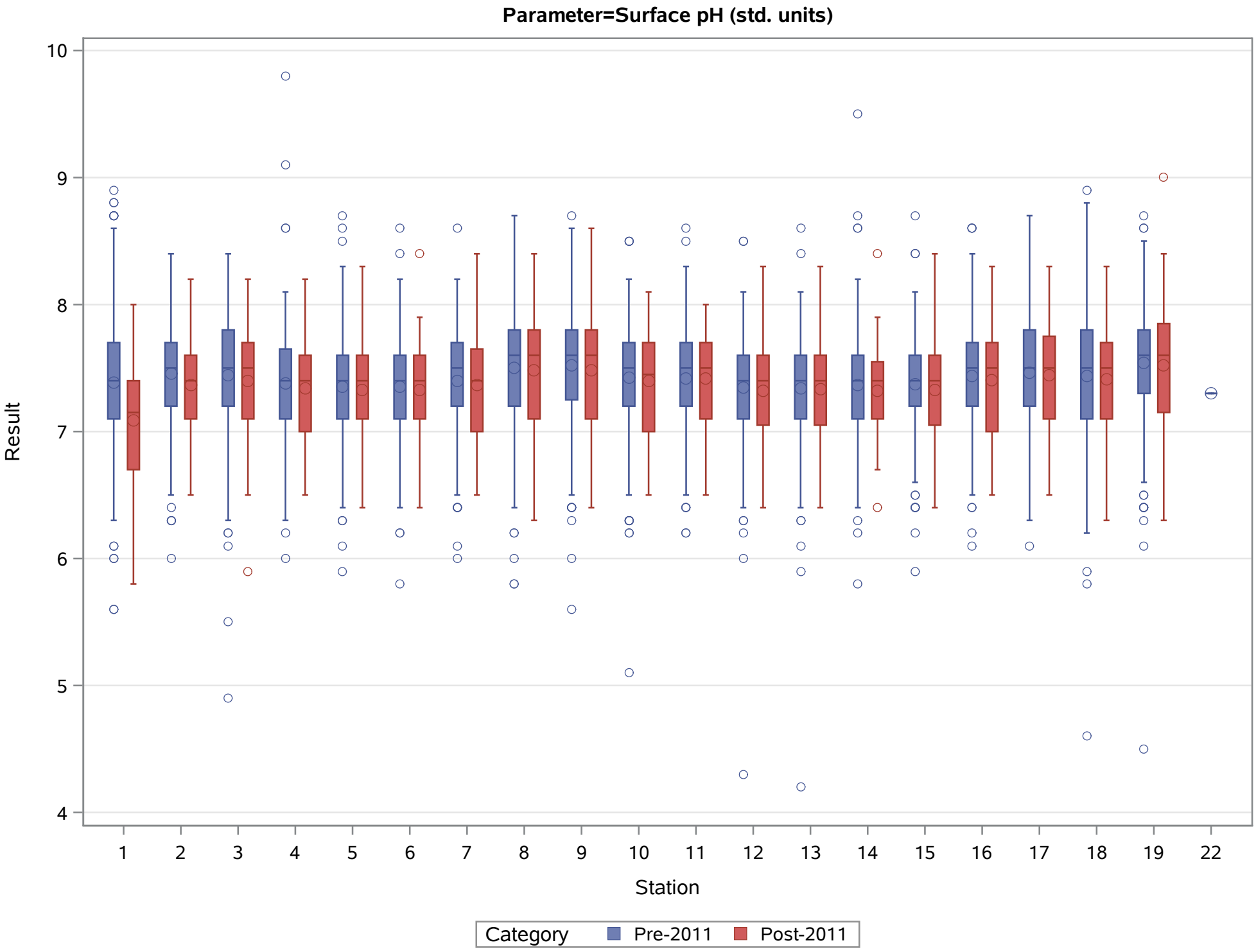

Parameter=ORP_Bottom
600
400
200
0
Result
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011

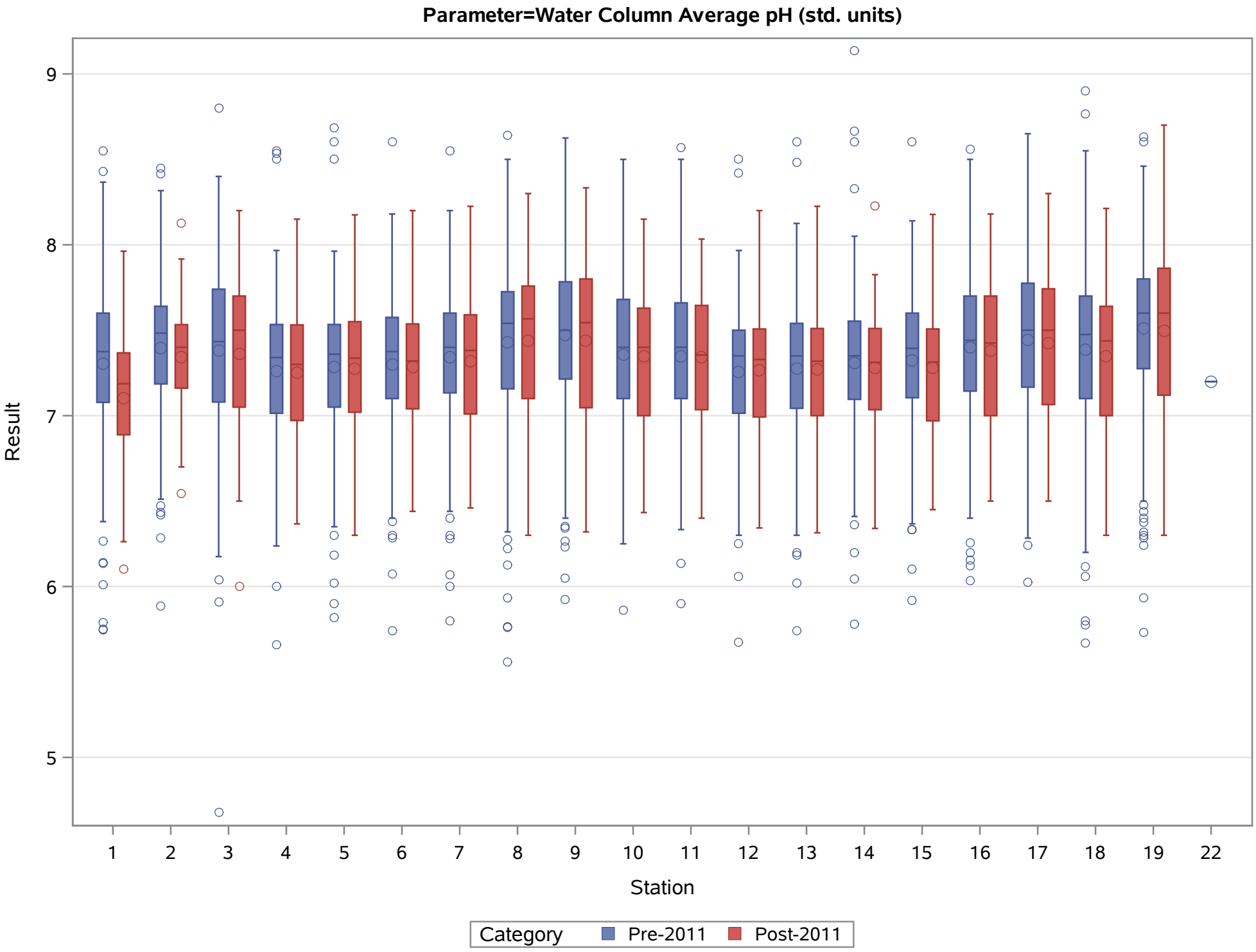

Parameter=ORP_Surface
500
400
300
200
100
0
Result
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011

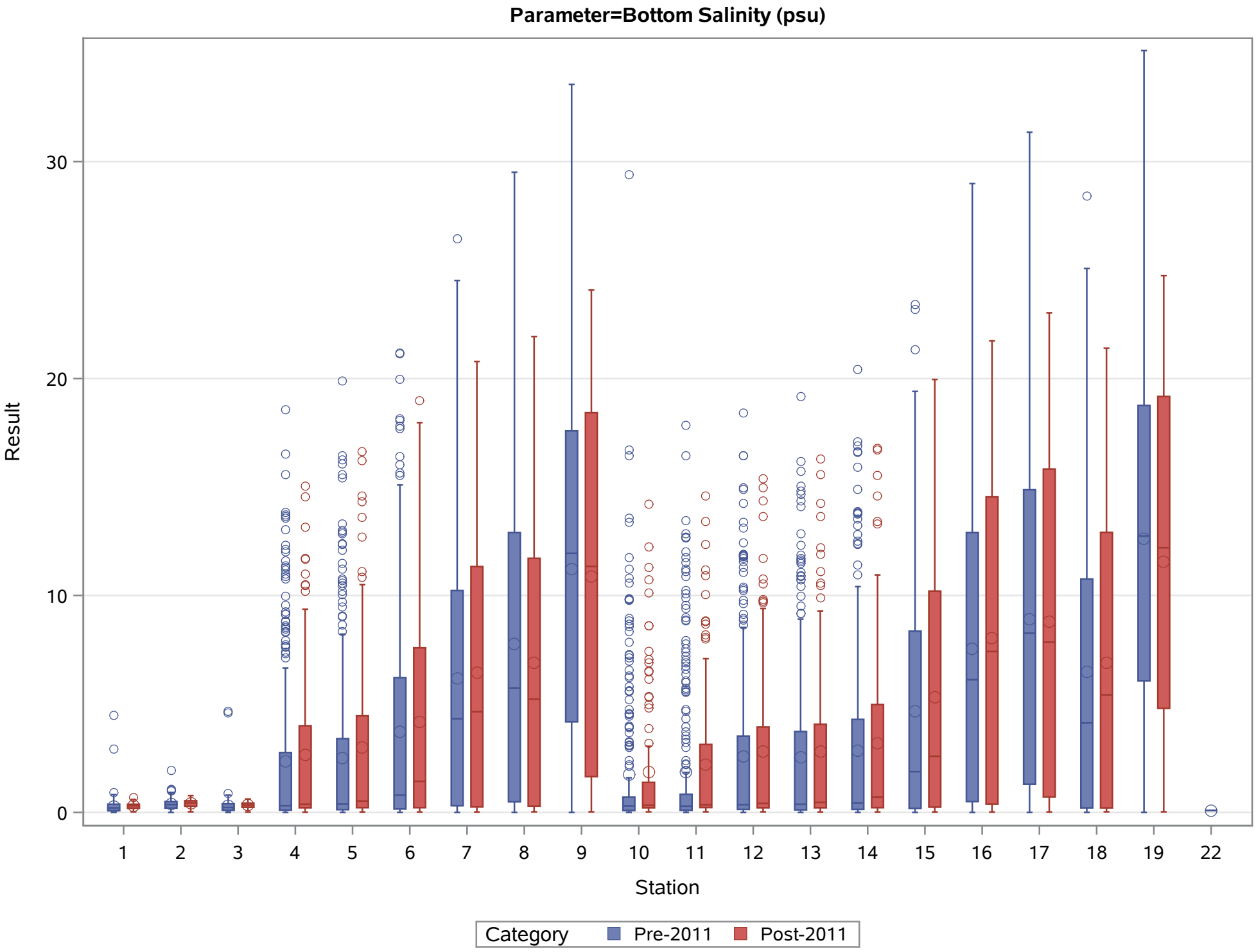

Parameter=ORP_average
500
400
300
200
100
0
Result
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011

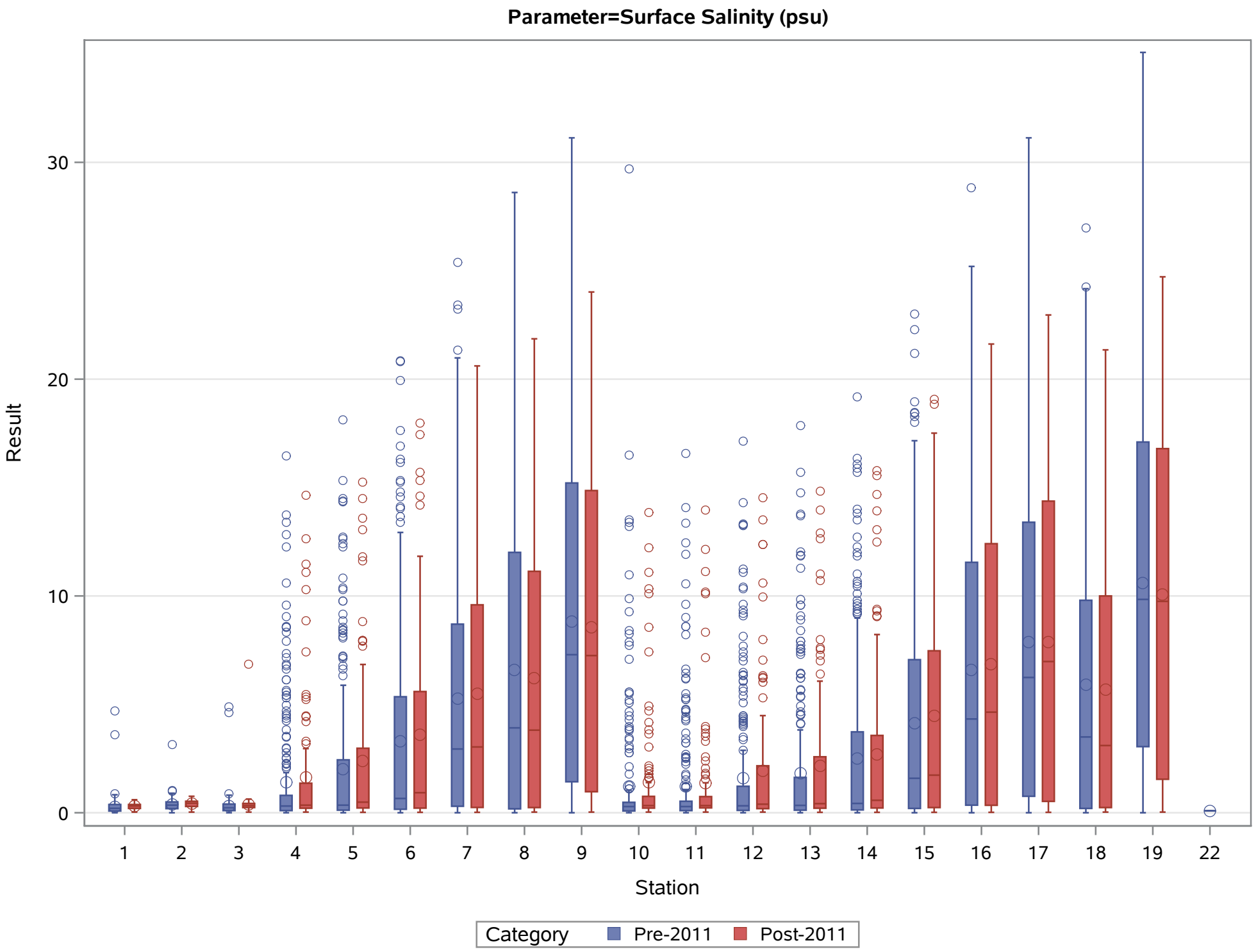

Parameter=Chlorophyll a Phaeophytin (ug/L)
200
150
100
50
0
Result
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

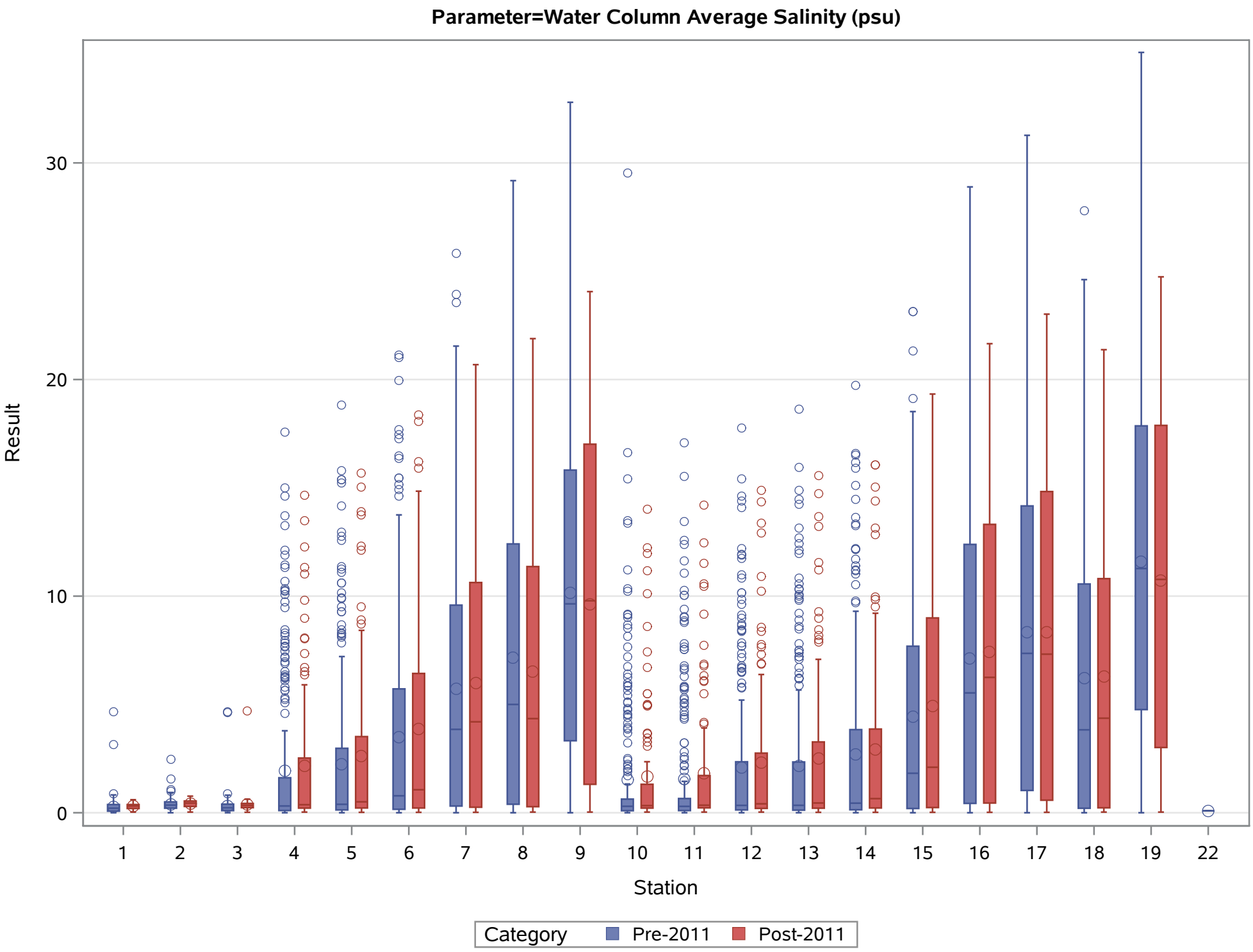

Parameter=Bottom pH (std. units)
Result
8
6
4
2
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

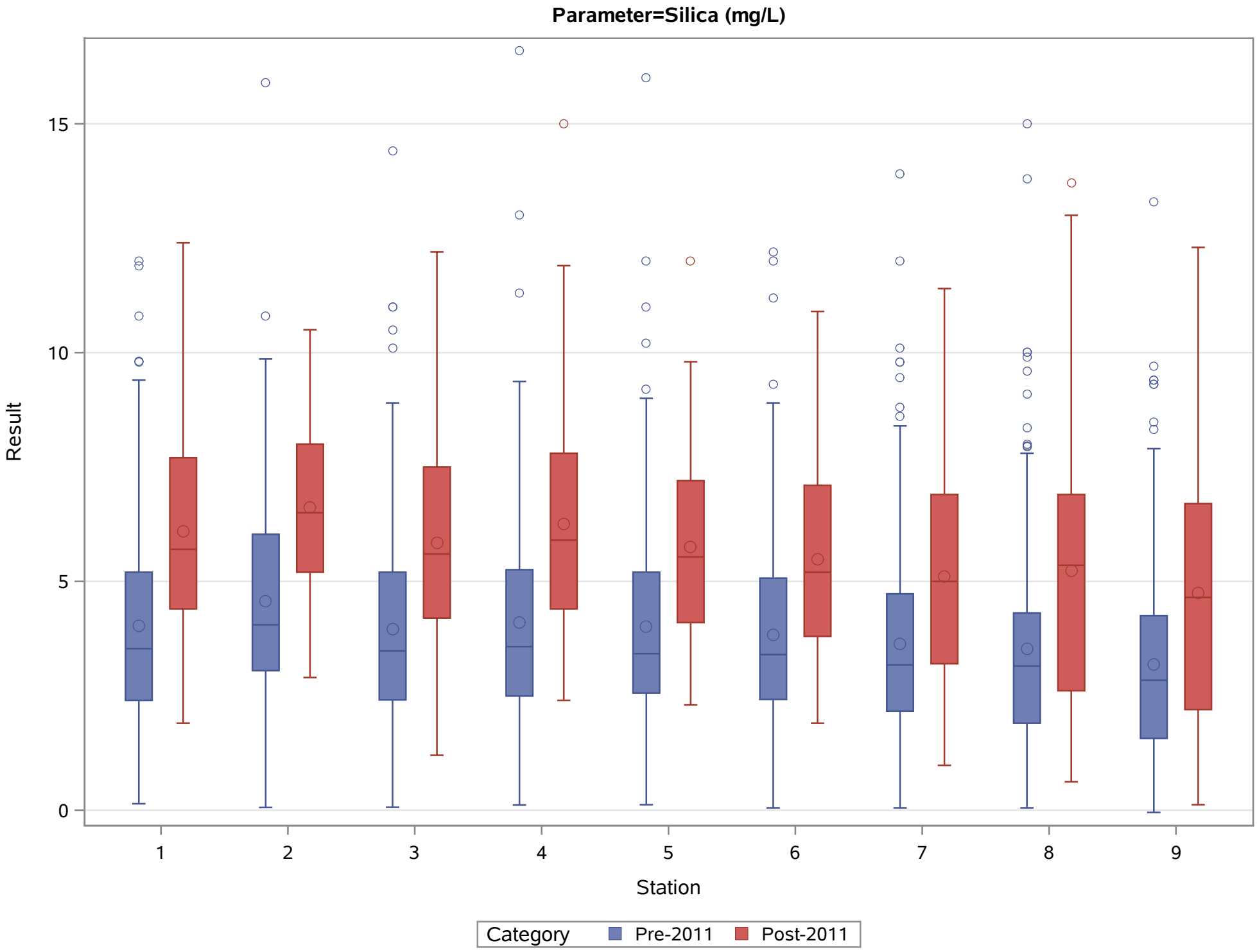

Parameter=Surface pH (std. units)
Result
10
9
8
7
6
5
4
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

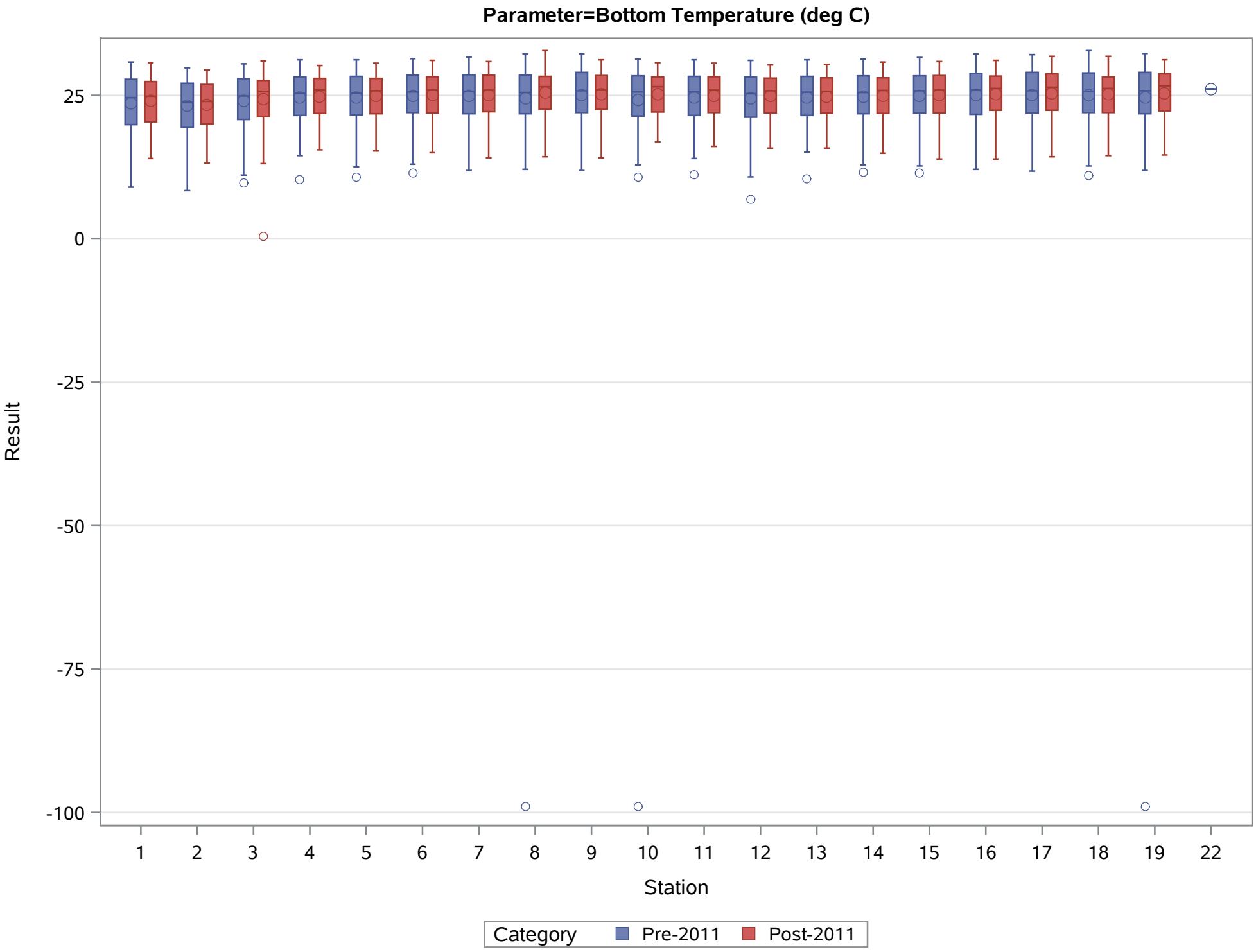

Parameter=Water Column Average pH (std. units)
Result
9
8
7
6
5
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

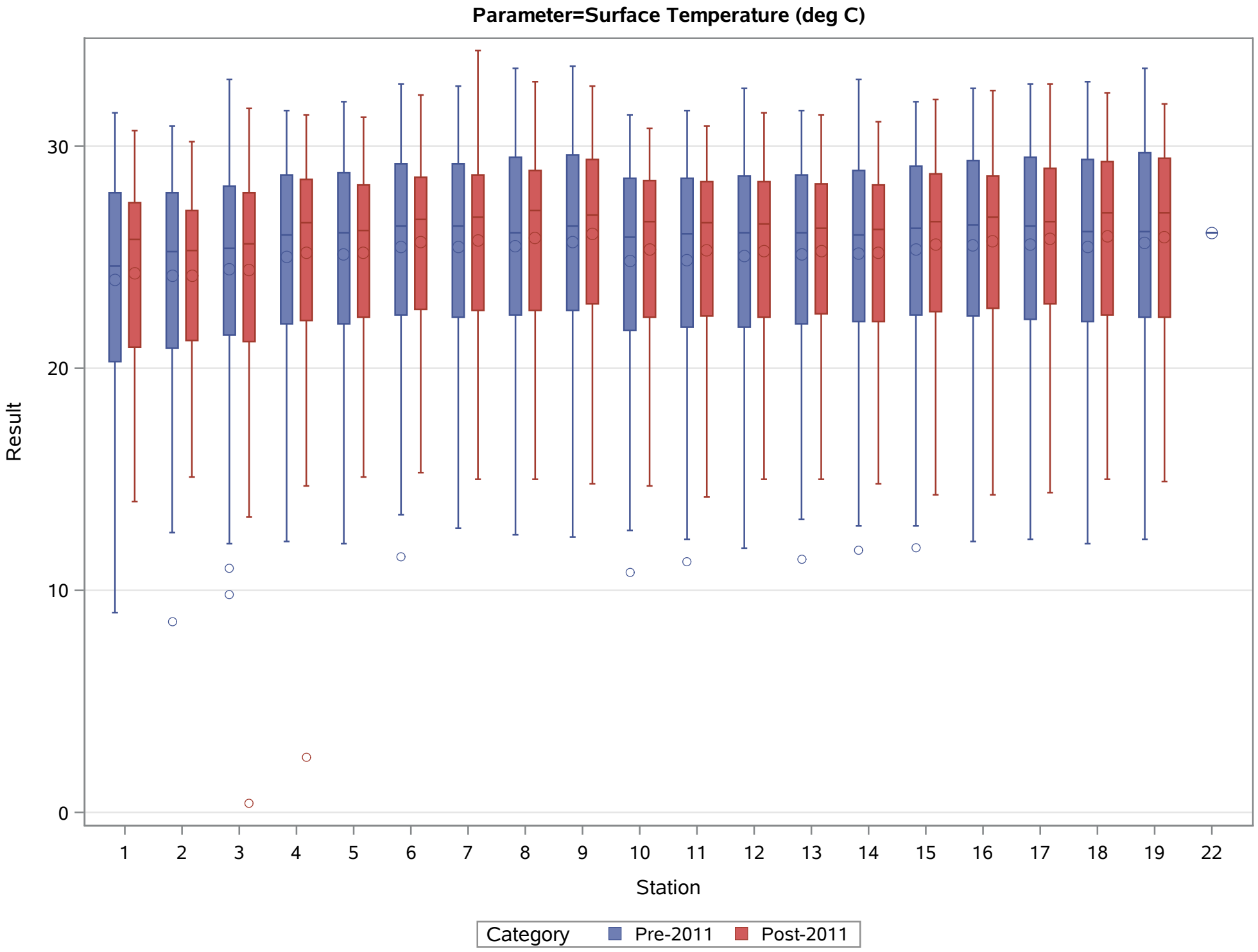

Parameter=Bottom Salinity (psu)
Result
0
10
20
30
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

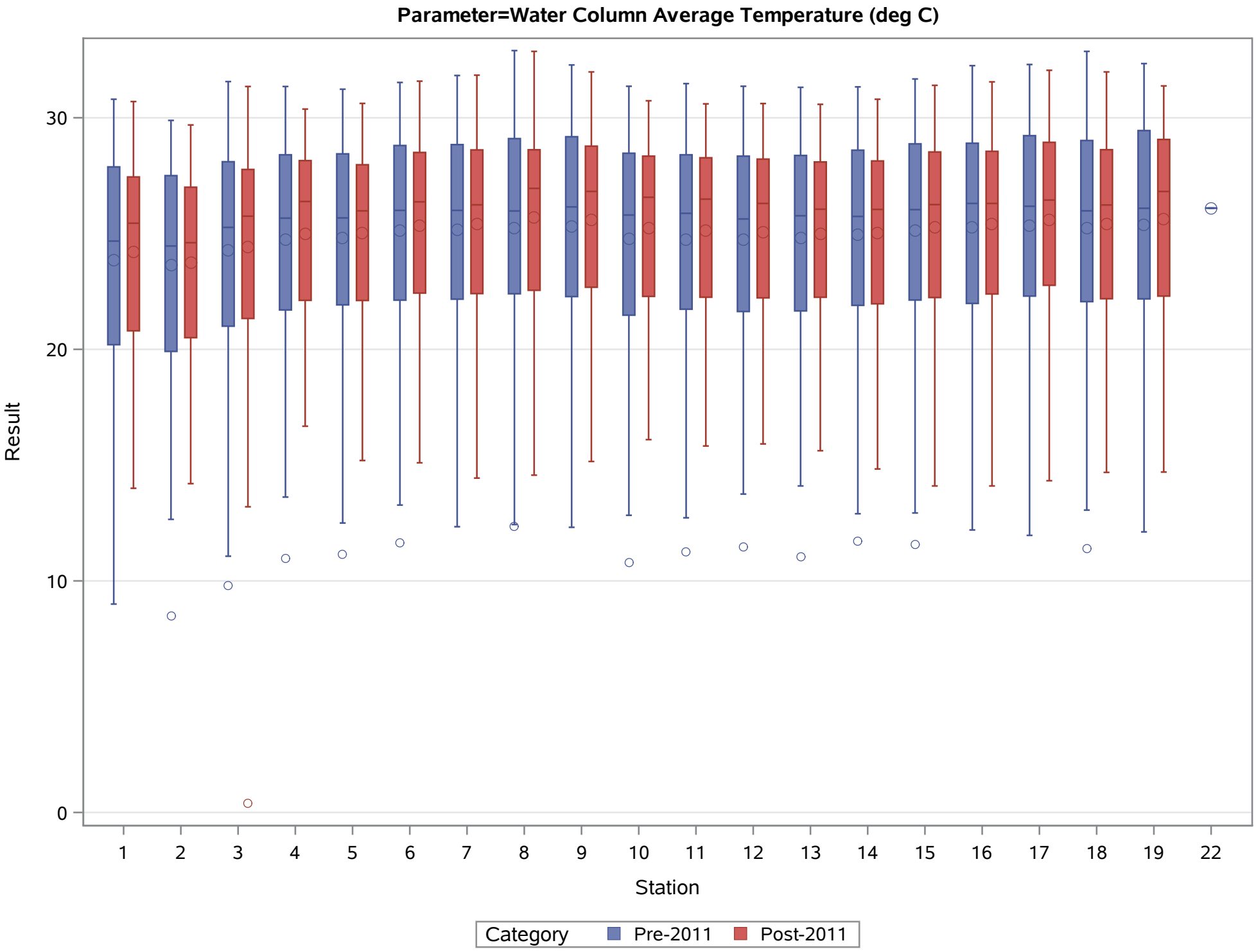

Parameter=Surface Salinity (psu)
Result
30
20
10
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

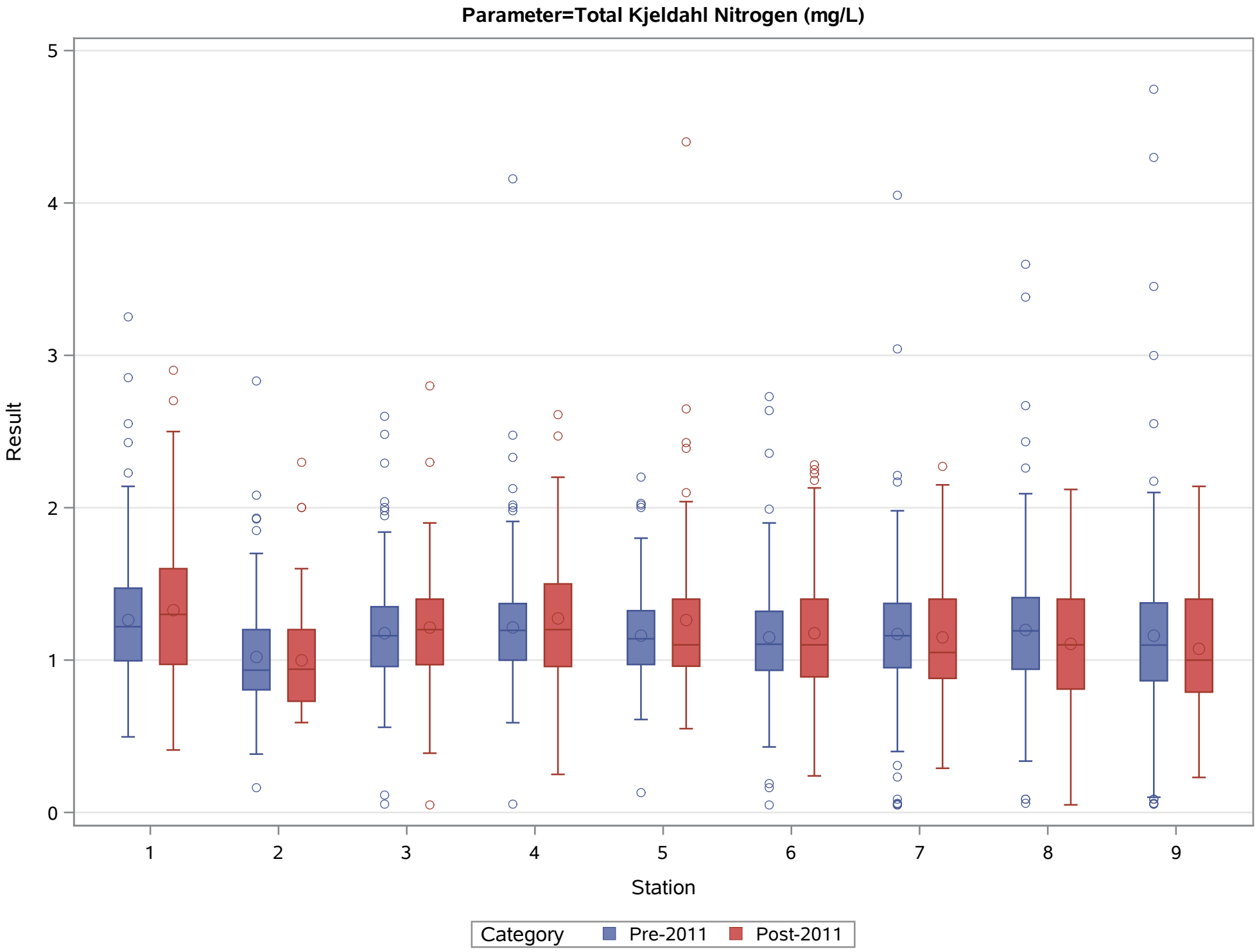

Parameter=Water Column Average Salinity (psu)
Result
0
10
20
30
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

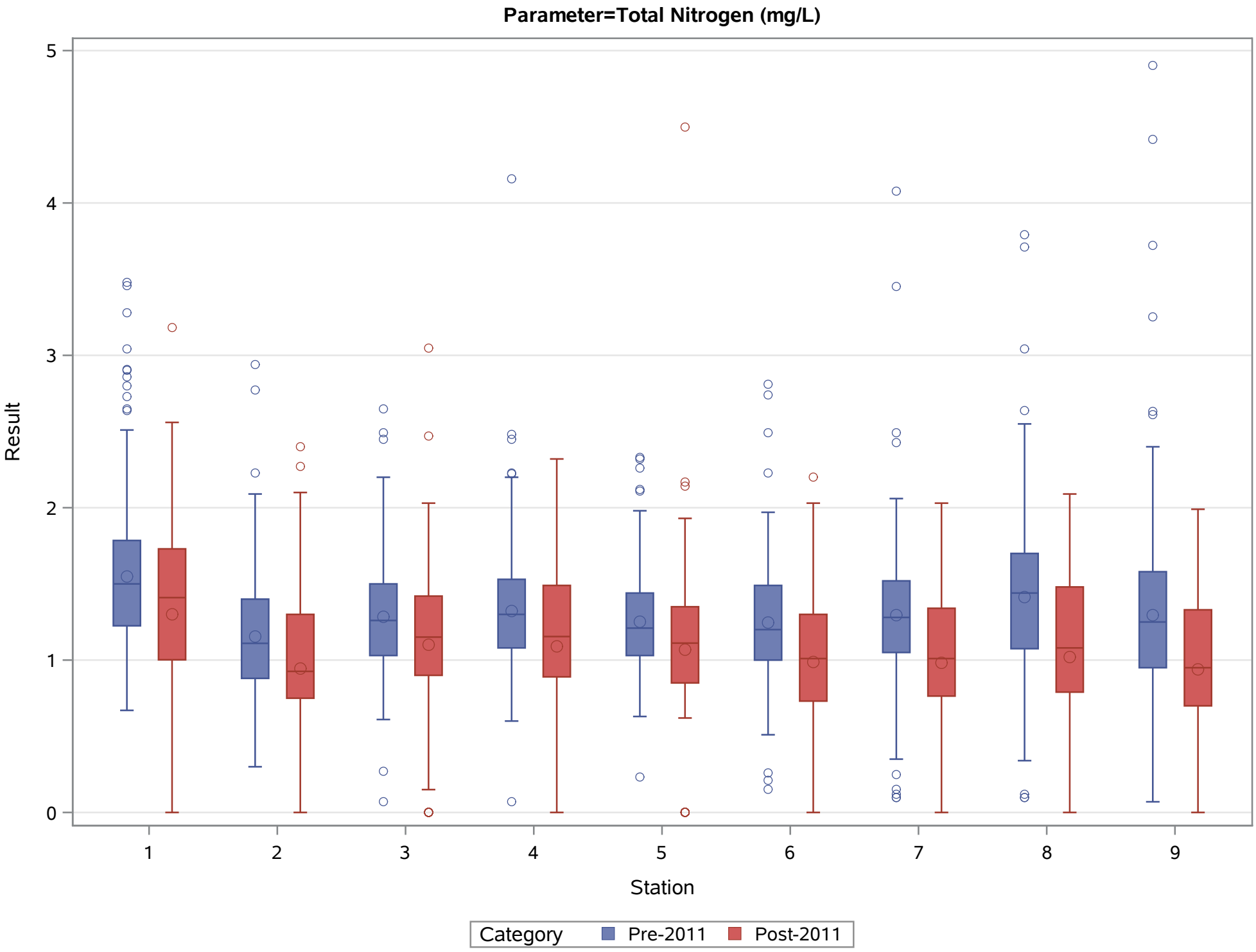

Parameter=Silica (mg/L)
Result
15
10
5
0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

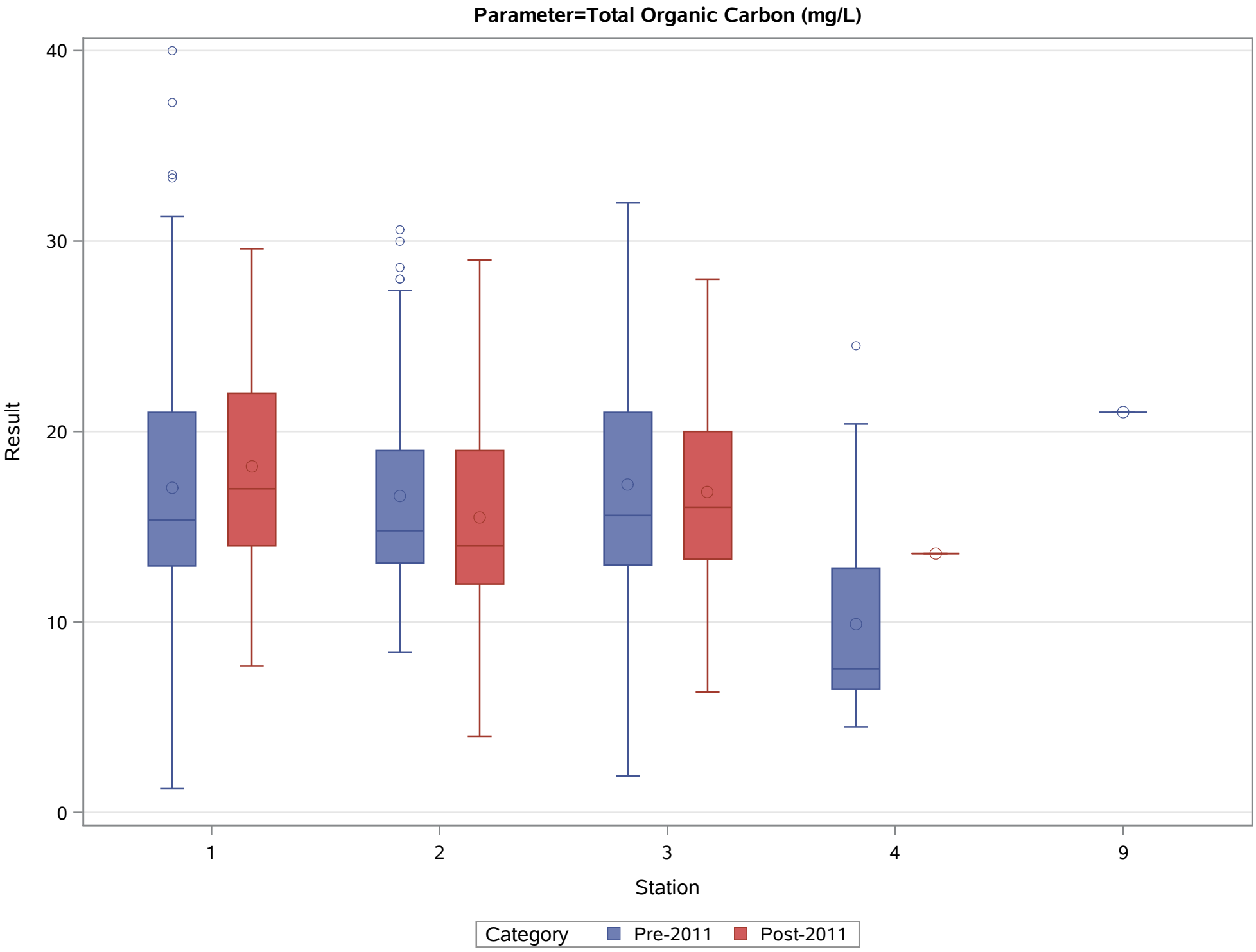

Parameter=Bottom Temperature (deg C)
Result
25
0
-25
-50
-75
-100
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

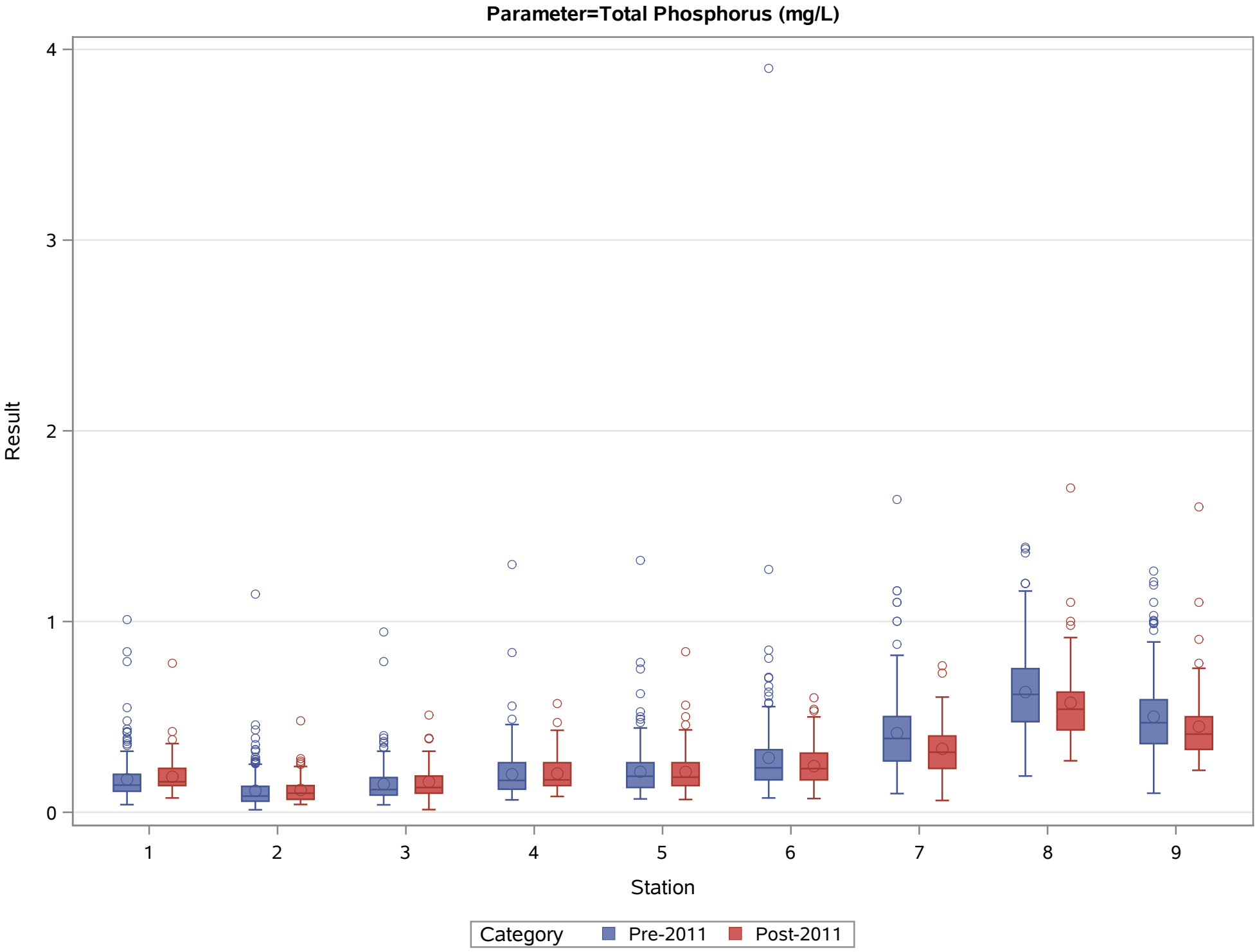

Parameter=Surface Temperature (deg C)
Result
30
20
10
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

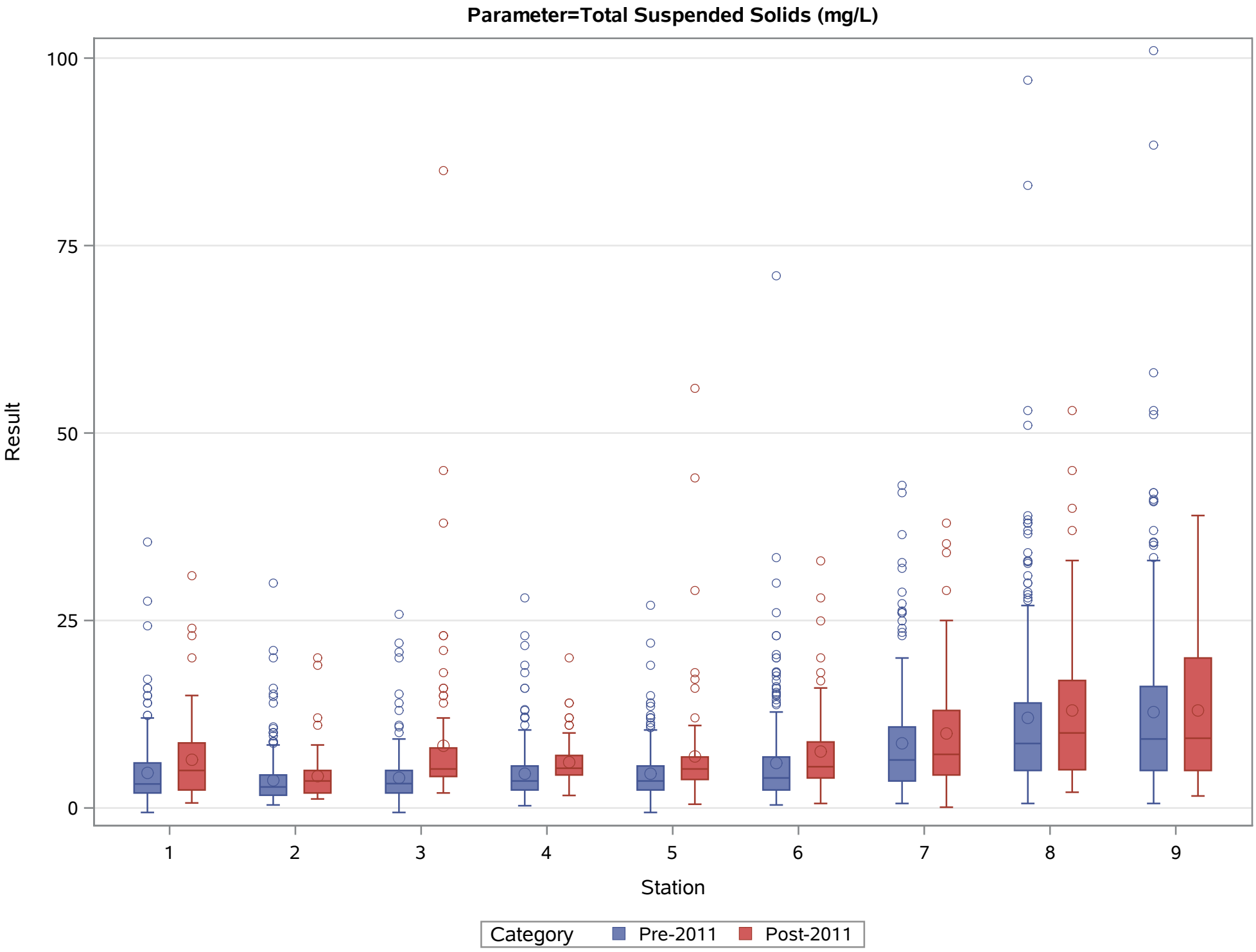

Parameter=Water Column Average Temperature (deg C)
Result
30
20
10
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
22
Station
Category
Pre-2011
Post-2011

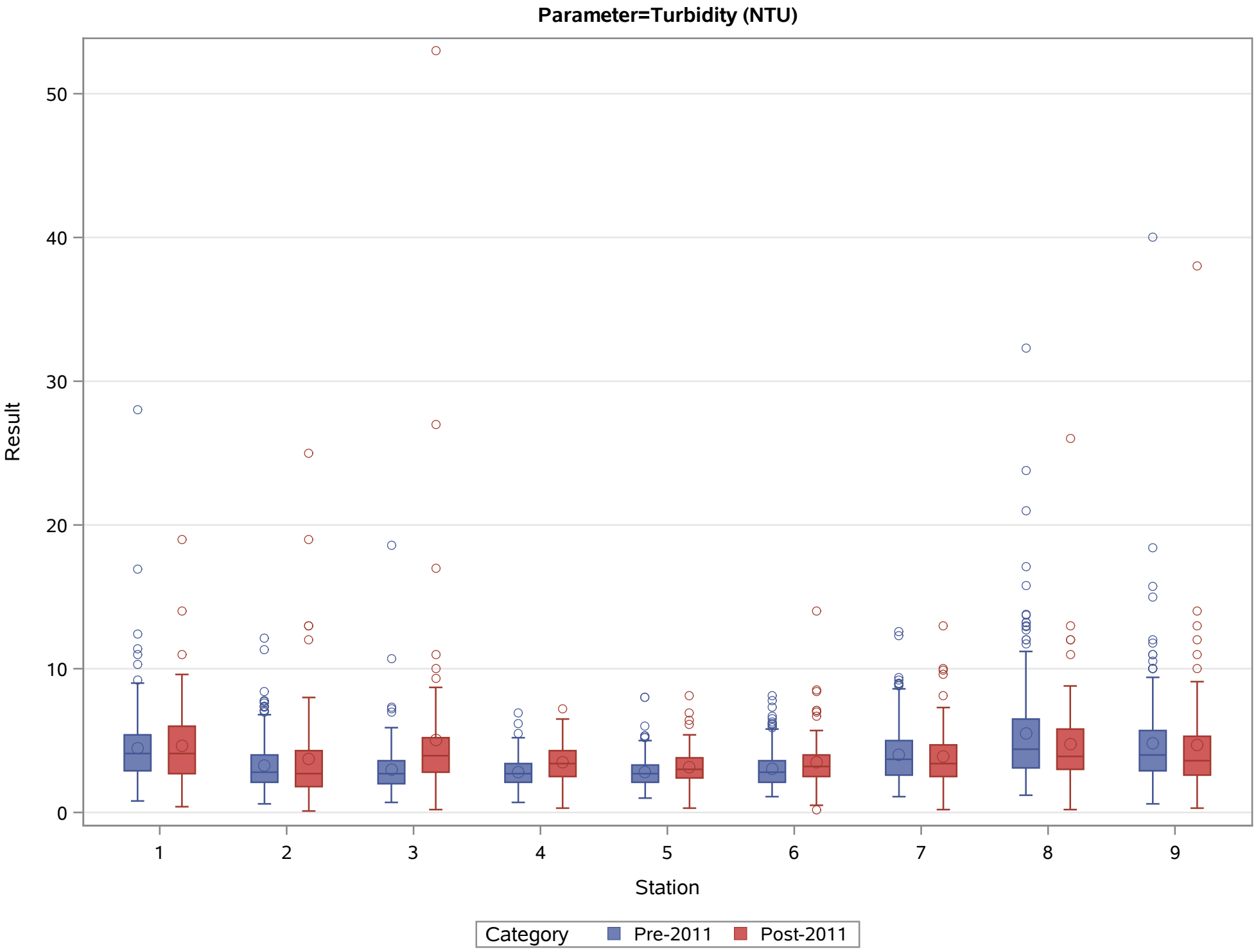

Parameter=Total Kjeldahl Nitrogen (mg/L)
Result
0
1
2
3
4
5
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011


Parameter=Total Nitrogen (mg/L)
Result
0
1
2
3
4
5
Station
1
2
3
4
5
6
7
8
9
Category
Pre-2011
Post-2011


Parameter=Total Organic Carbon (mg/L)
Result
40
30
20
10
0
1
2
3
4
9
Station
Category
Pre-2011
Post-2011


Parameter=Total Phosphorus (mg/L)
Result
4
3
2
1
0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011


Parameter=Total Suspended Solids (mg/L)
Result
100
75
50
25
0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

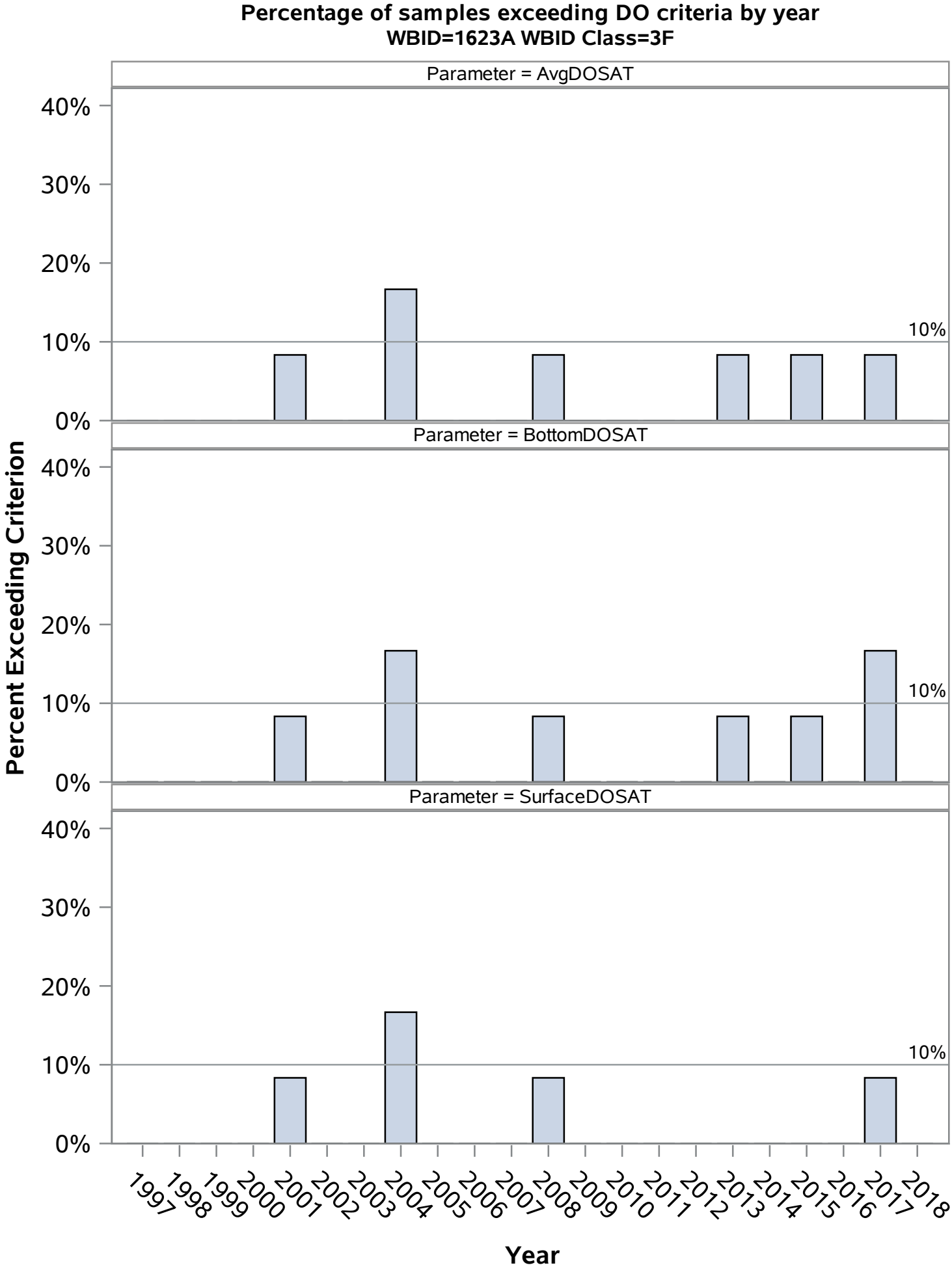

Parameter=Turbidity (NTU)
Result
50
40
30
20
10
0
1
2
3
4
5
6
7
8
9
Station
Category
Pre-2011
Post-2011

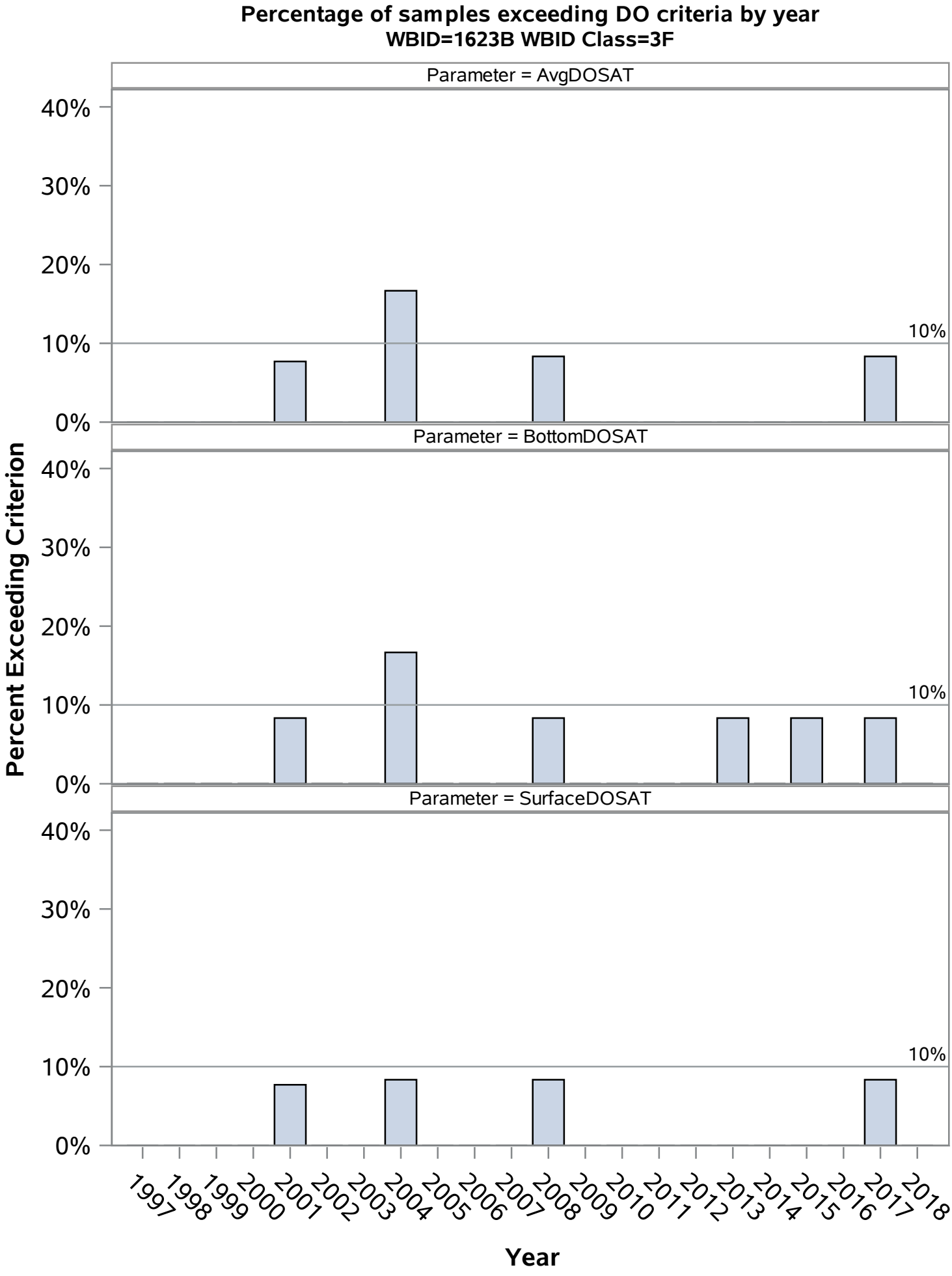
APPENDIX J

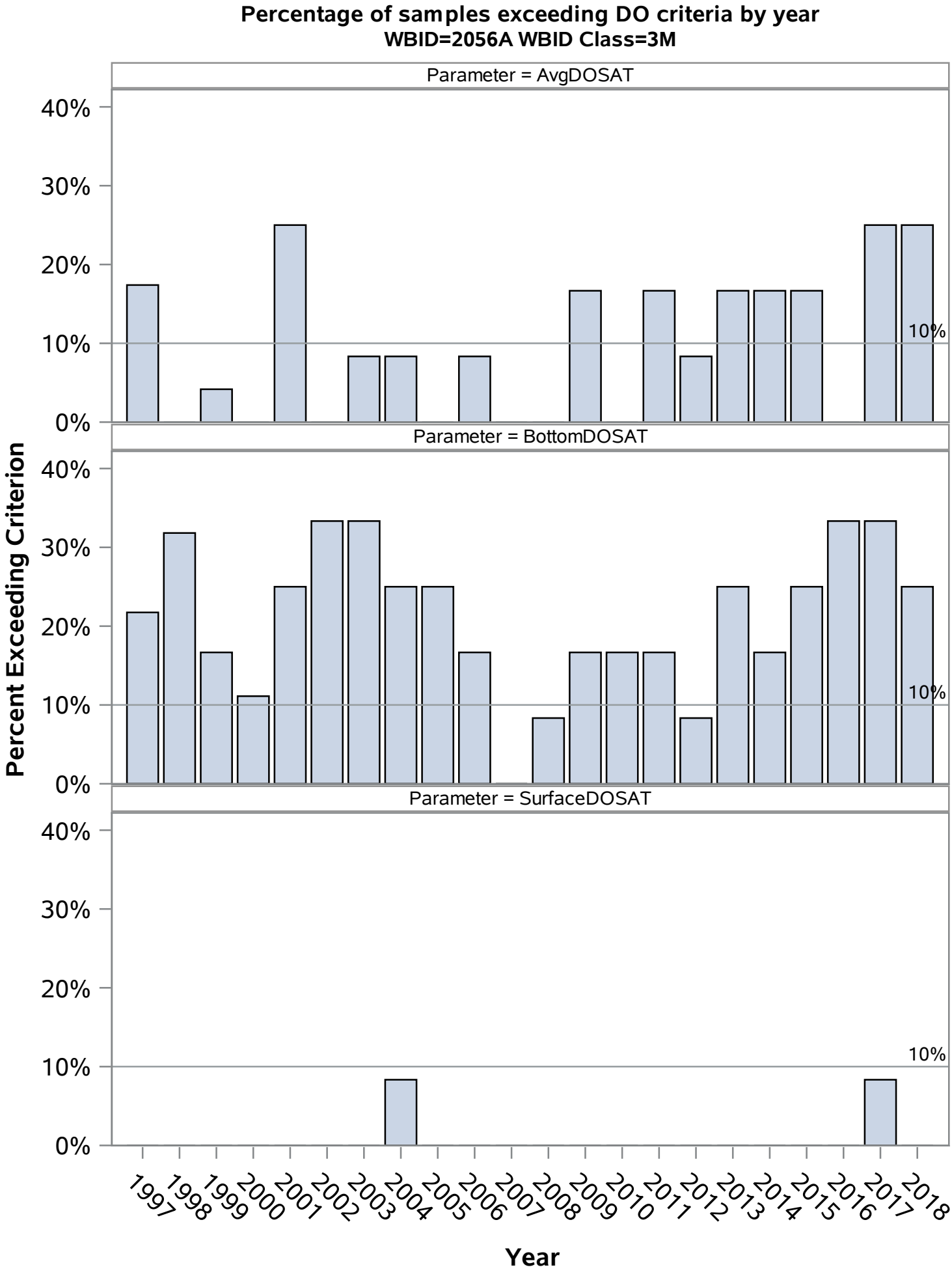
HBMP Fixed Station Assessment of Dissolved Oxygen Versus State Criteria by WBID

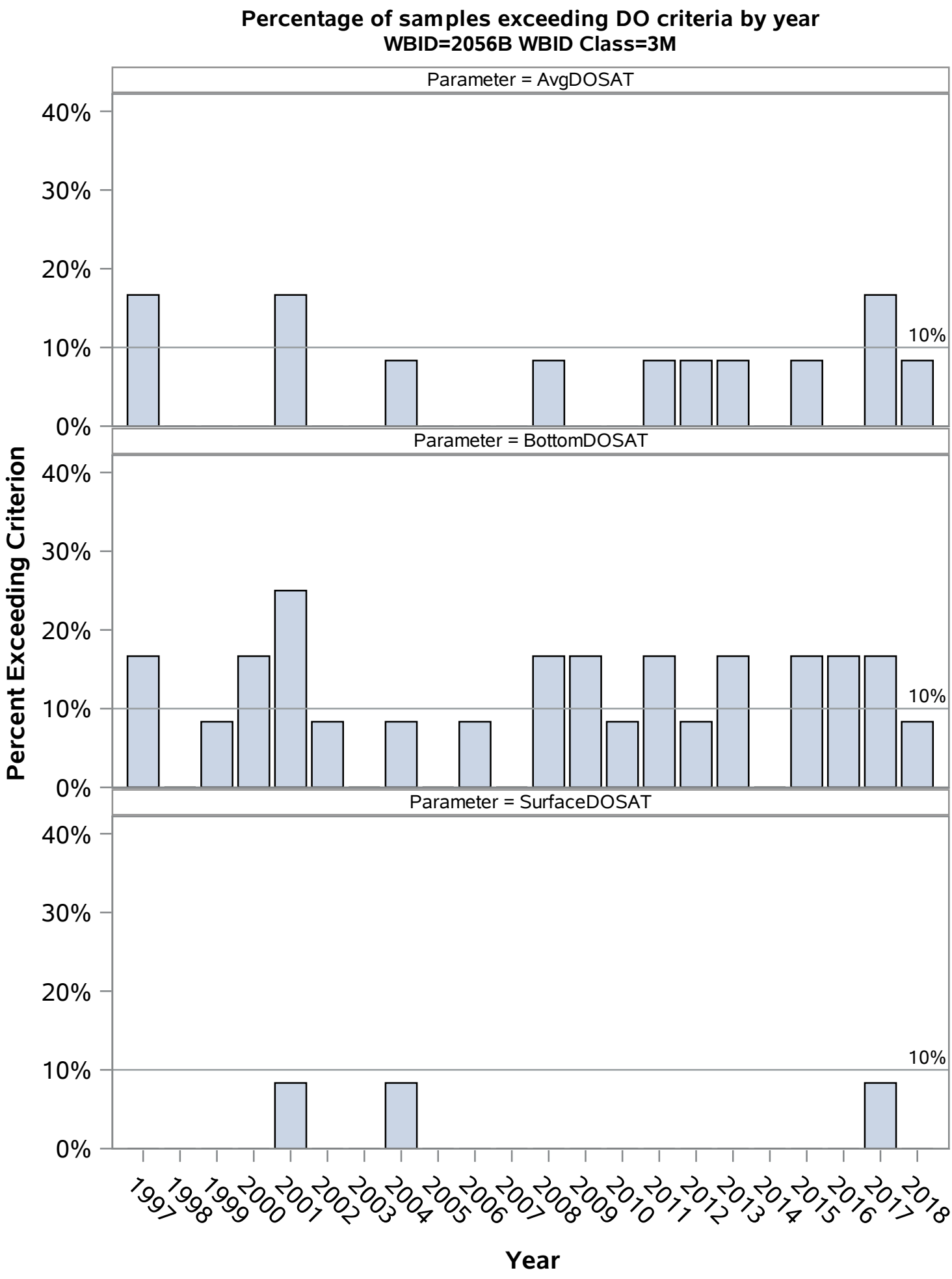
Percentage of samples exceeding DO criteria over POR
Class 3F criteria = 38% Class 2 and 3M criteria = 42%

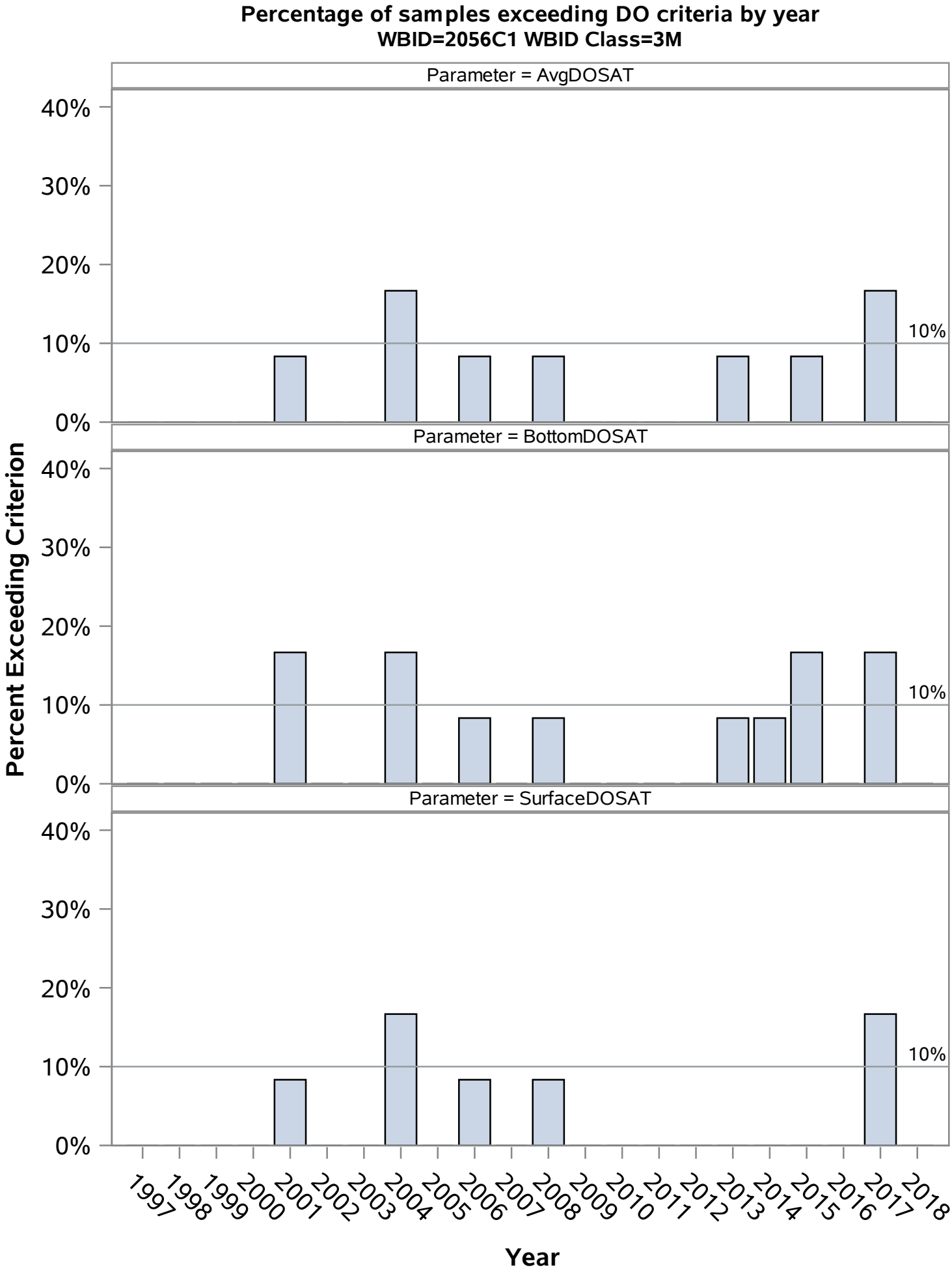
Obs	WBID	CLASS	parameter	totexceed	count	percexceed
1	1623A	3F	AvgDOSAT	7	304	2.3%
2	1623A	3F	BottomDOSAT	8	304	2.6%
3	1623A	3F	SurfaceDOSAT	5	304	1.6%
4	1623B	3F	AvgDOSAT	5	261	1.9%
5	1623B	3F	BottomDOSAT	7	260	2.7%
6	1623B	3F	SurfaceDOSAT	4	261	1.5%
7	2056A	3M	AvgDOSAT	28	303	9.2%
8	2056A	3M	BottomDOSAT	64	303	21.1%
9	2056A	3M	SurfaceDOSAT	2	303	0.7%
10	2056B	3M	AvgDOSAT	13	264	4.9%
11	2056B	3M	BottomDOSAT	28	264	10.6%
12	2056B	3M	SurfaceDOSAT	3	264	1.1%
13	2056C1	3M	AvgDOSAT	9	263	3.4%
14	2056C1	3M	BottomDOSAT	12	263	4.6%
15	2056C1	3M	SurfaceDOSAT	7	263	2.7%
16	2056C2	3M	AvgDOSAT	10	304	3.3%
17	2056C2	3M	BottomDOSAT	15	304	4.9%
18	2056C2	3M	SurfaceDOSAT	5	304	1.6%
19	2065A	2	AvgDOSAT	13	299	4.3%
20	2065A	2	BottomDOSAT	72	299	24.1%
21	2065A	2	SurfaceDOSAT	1	299	0.3%

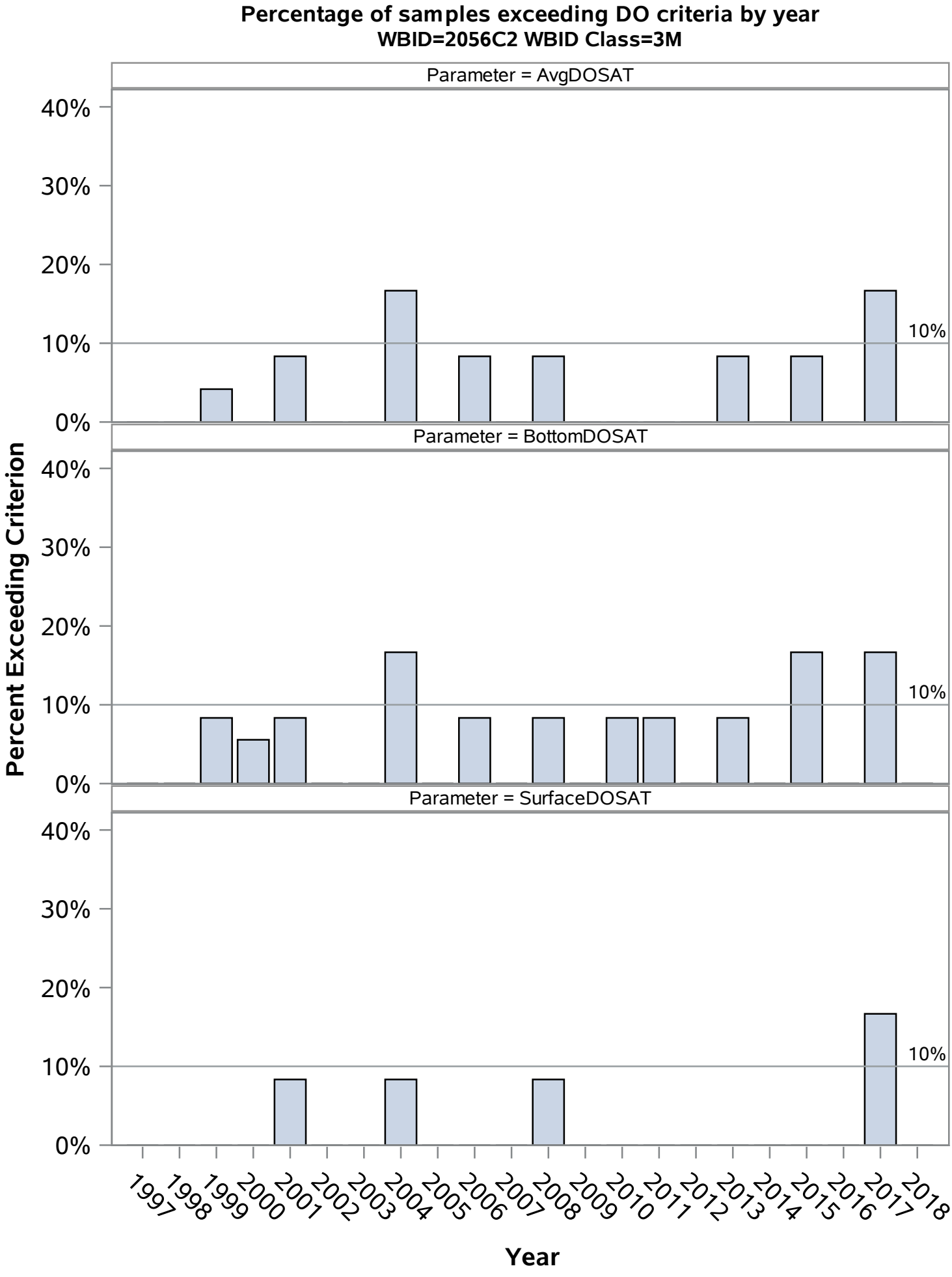

Percentage of samples exceeding DO criteria by year
WBID=1623A WBID Class=3F
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
40%
30%
20%
10%
0%
10%
Percent Exceeding Criterion
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
Year

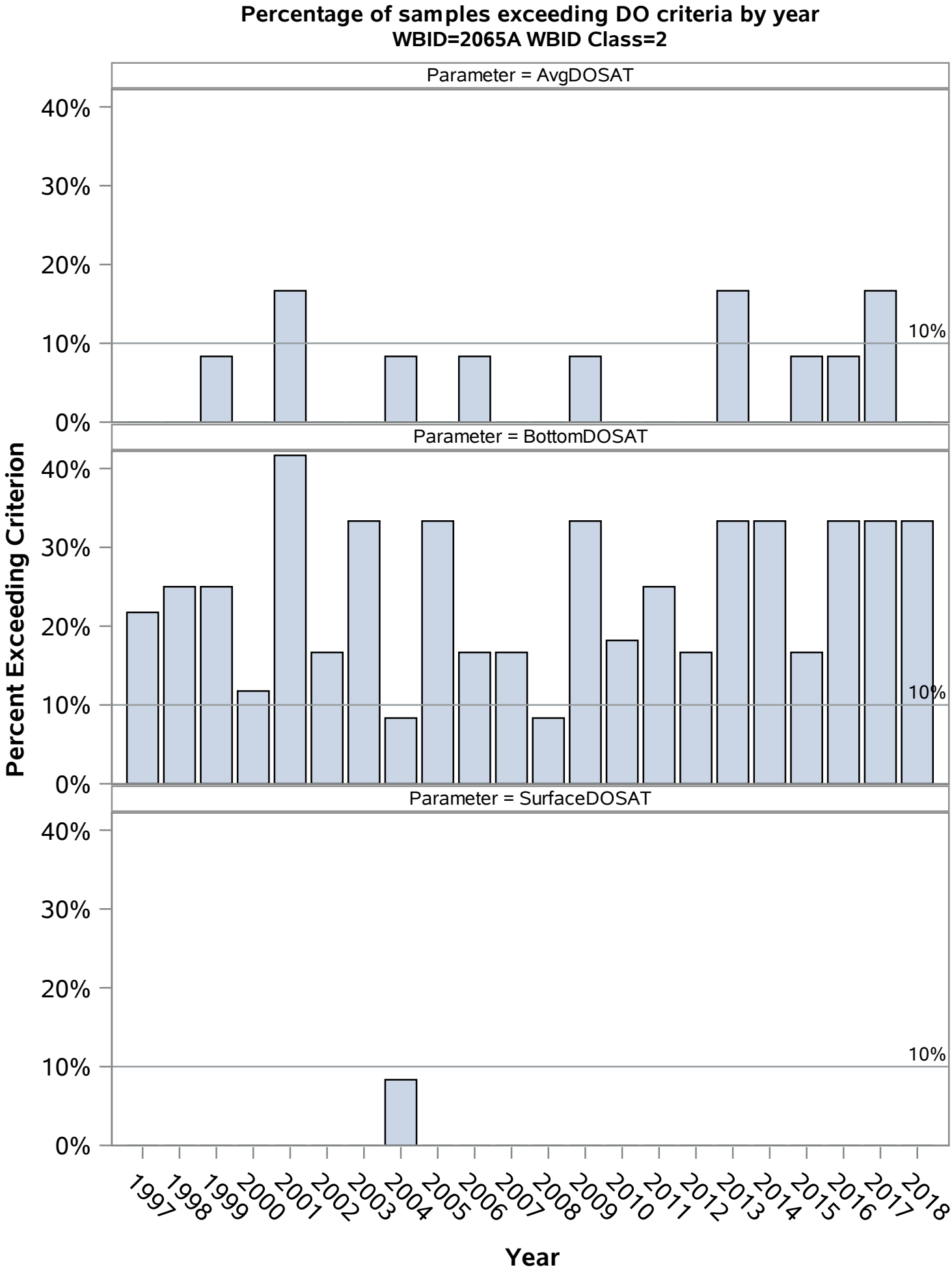

Percentage of samples exceeding DO criteria by year
WBID=1623B WBID Class=3F
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
40%
30%
20%
10%
0%
10%
Percent Exceeding Criterion
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
Year

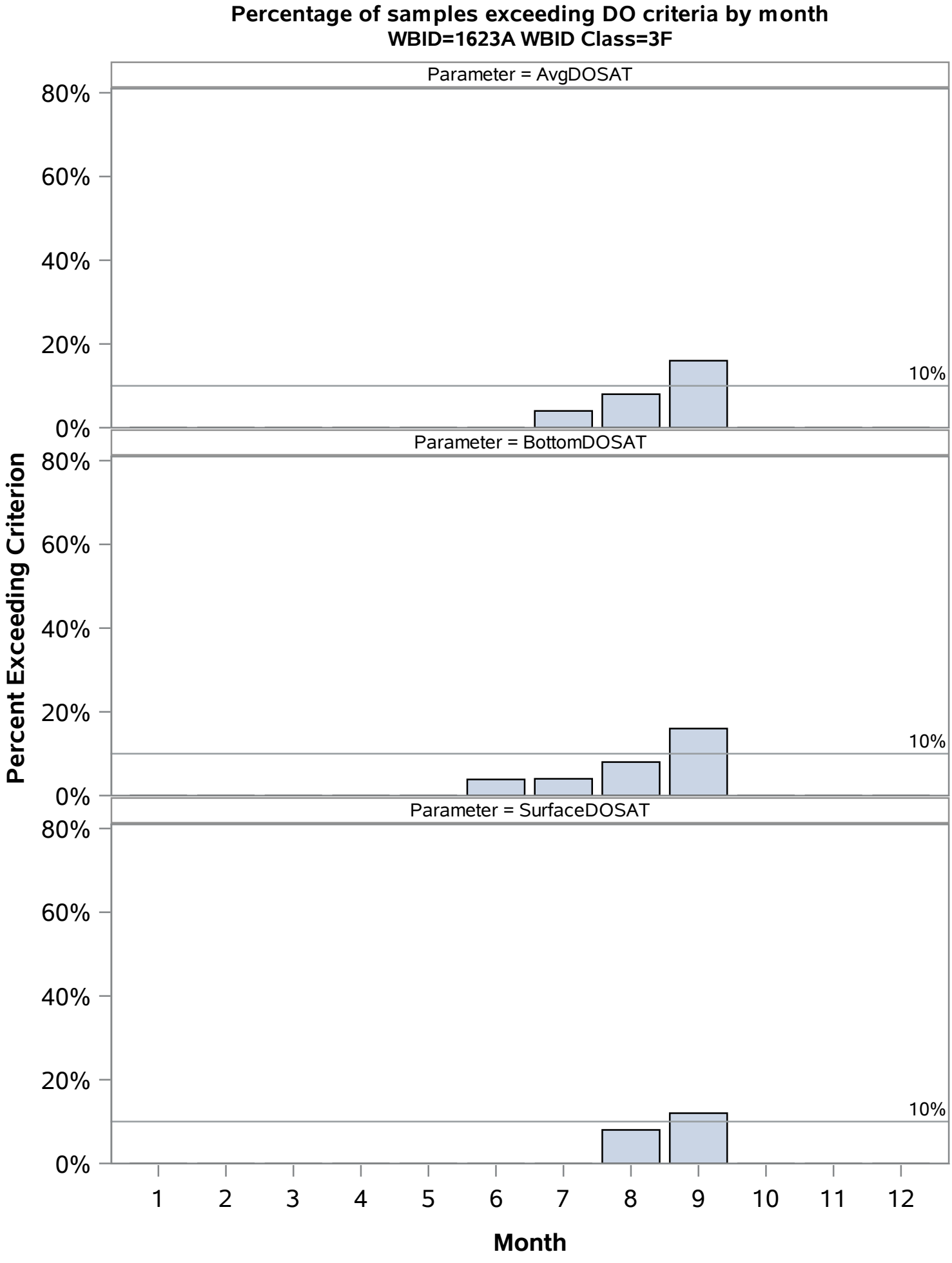

Percentage of samples exceeding DO criteria by year
WBID=2056A WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
40%
30%
20%
10%
0%
10%
Percent Exceeding Criterion
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
Year

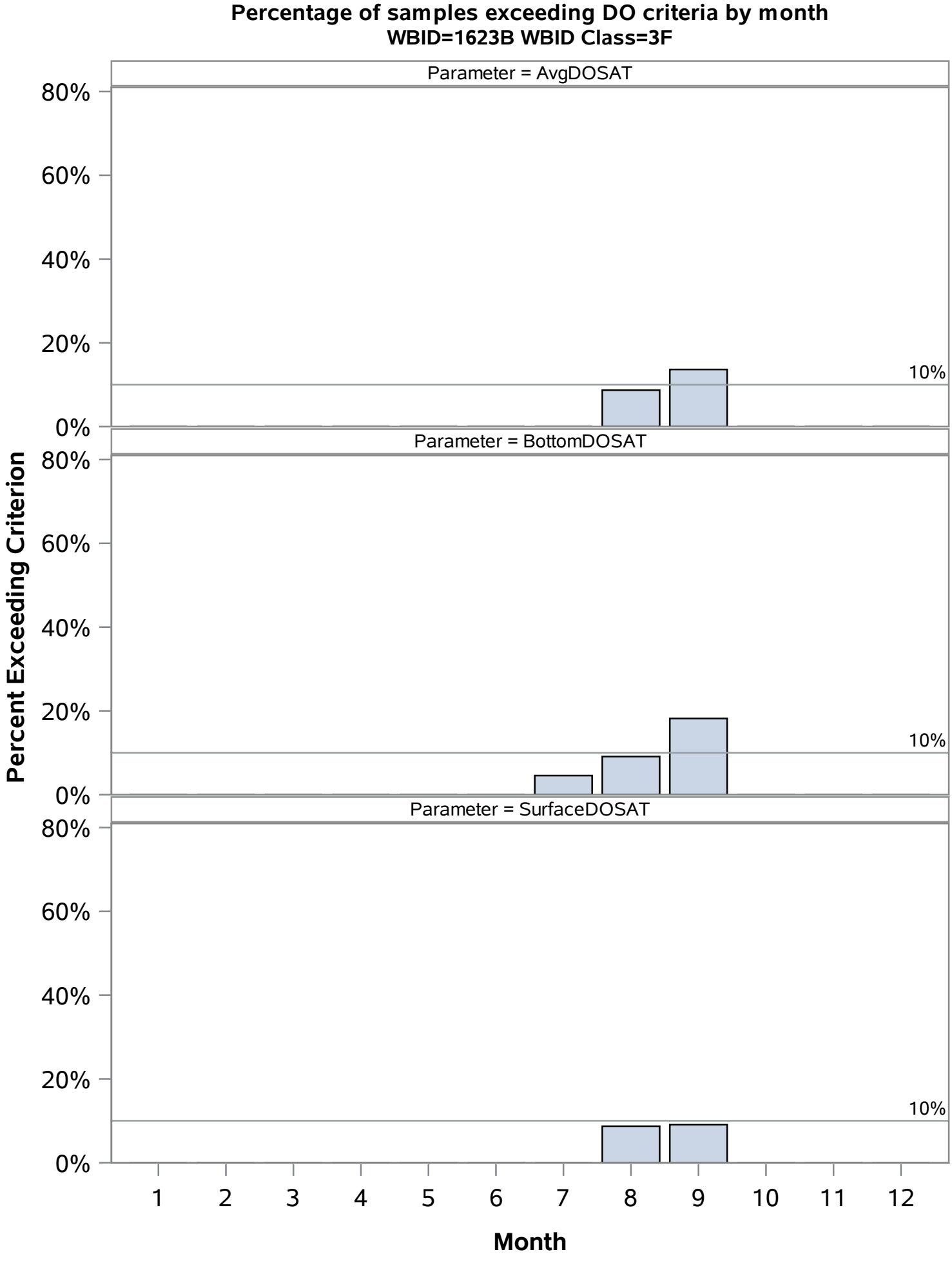

Percentage of samples exceeding DO criteria by year
WBID=2056B WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
40%
30%
20%
10%
0%
10%
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
Year

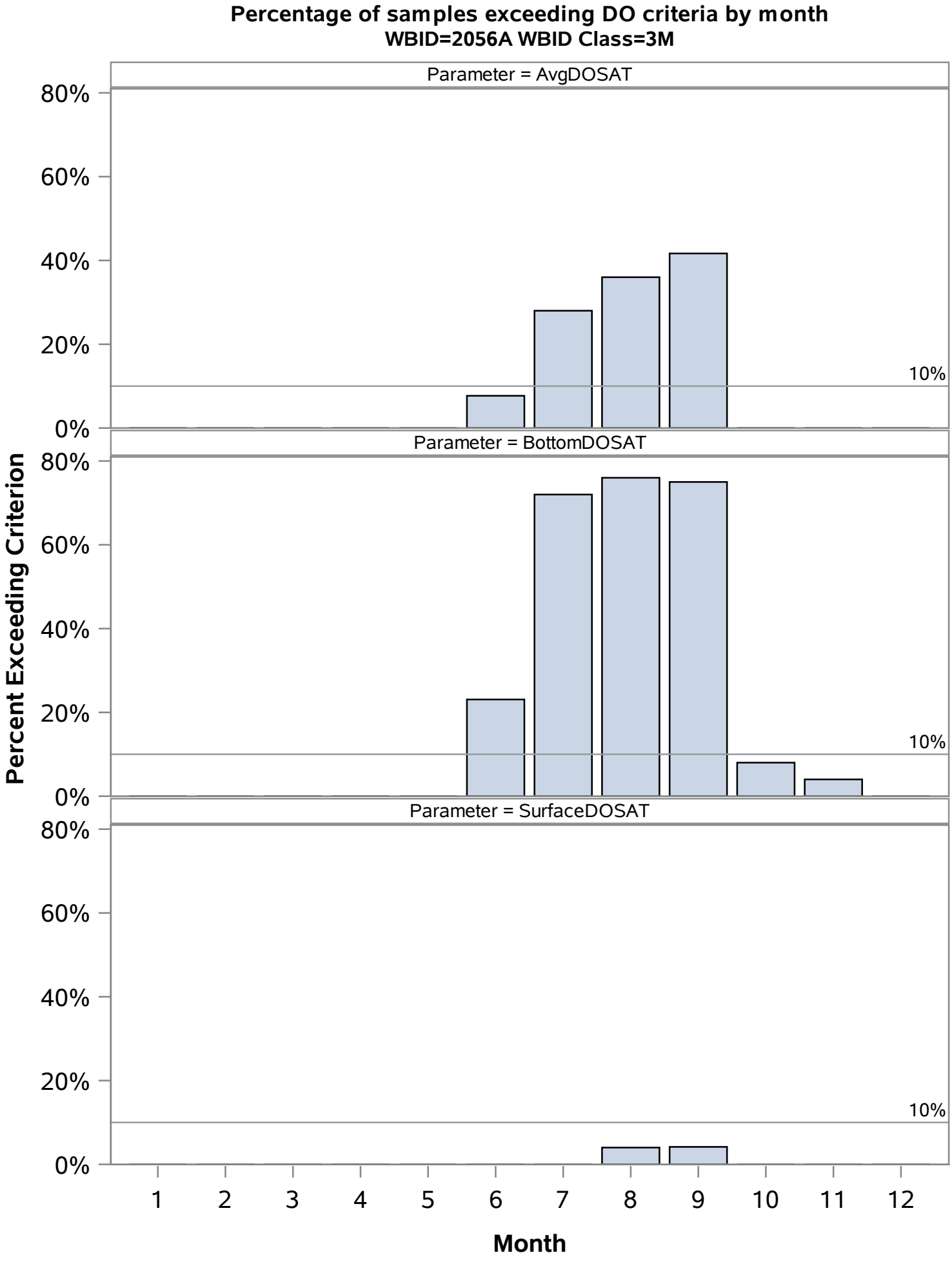

Percentage of samples exceeding DO criteria by year
WBID=2056C1 WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
0%
10%
20%
30%
40%
10%
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
Year

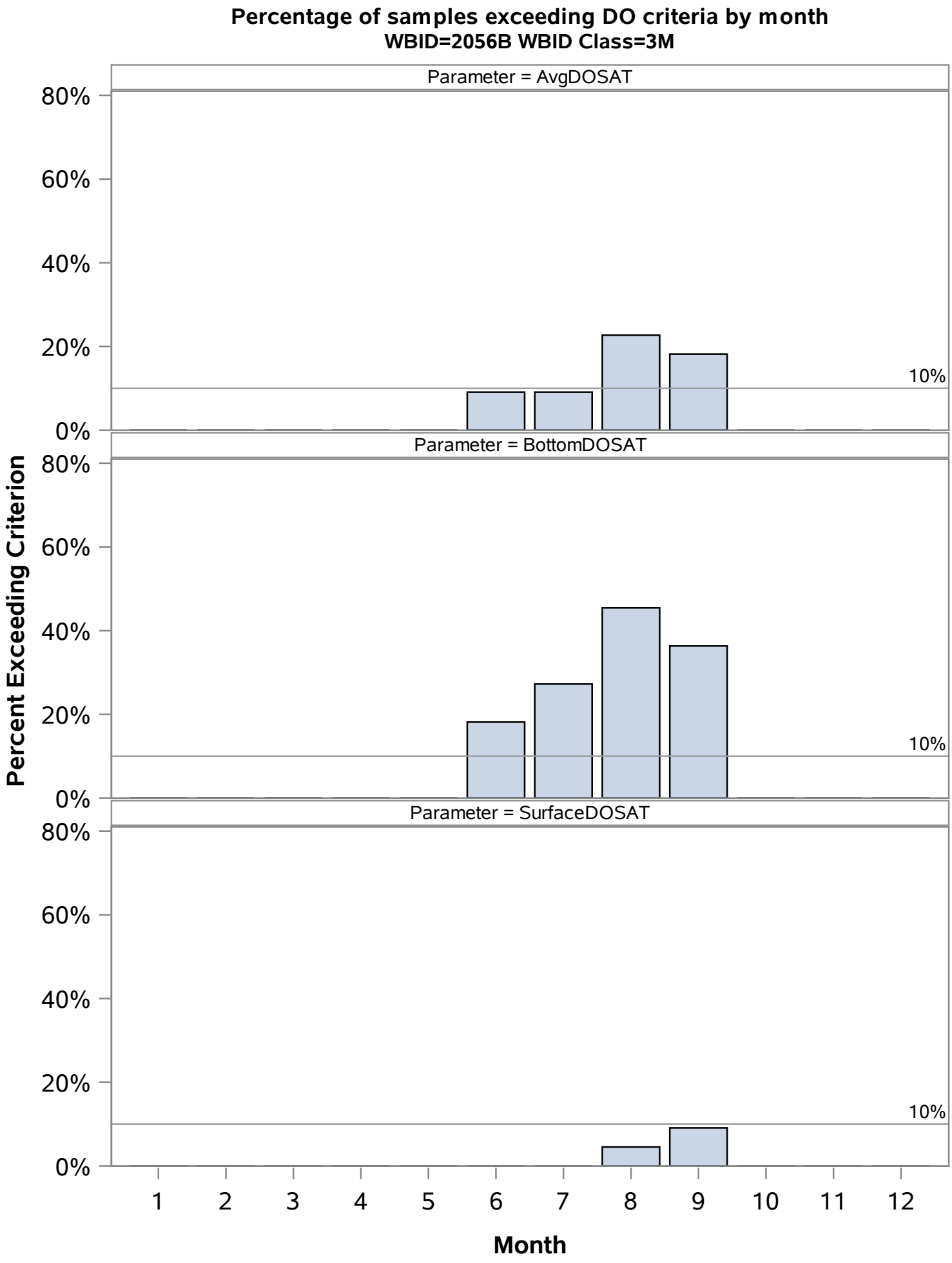

Percentage of samples exceeding DO criteria by year
WBID=2056C2 WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
40%
30%
20%
10%
0%
10%
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
Year

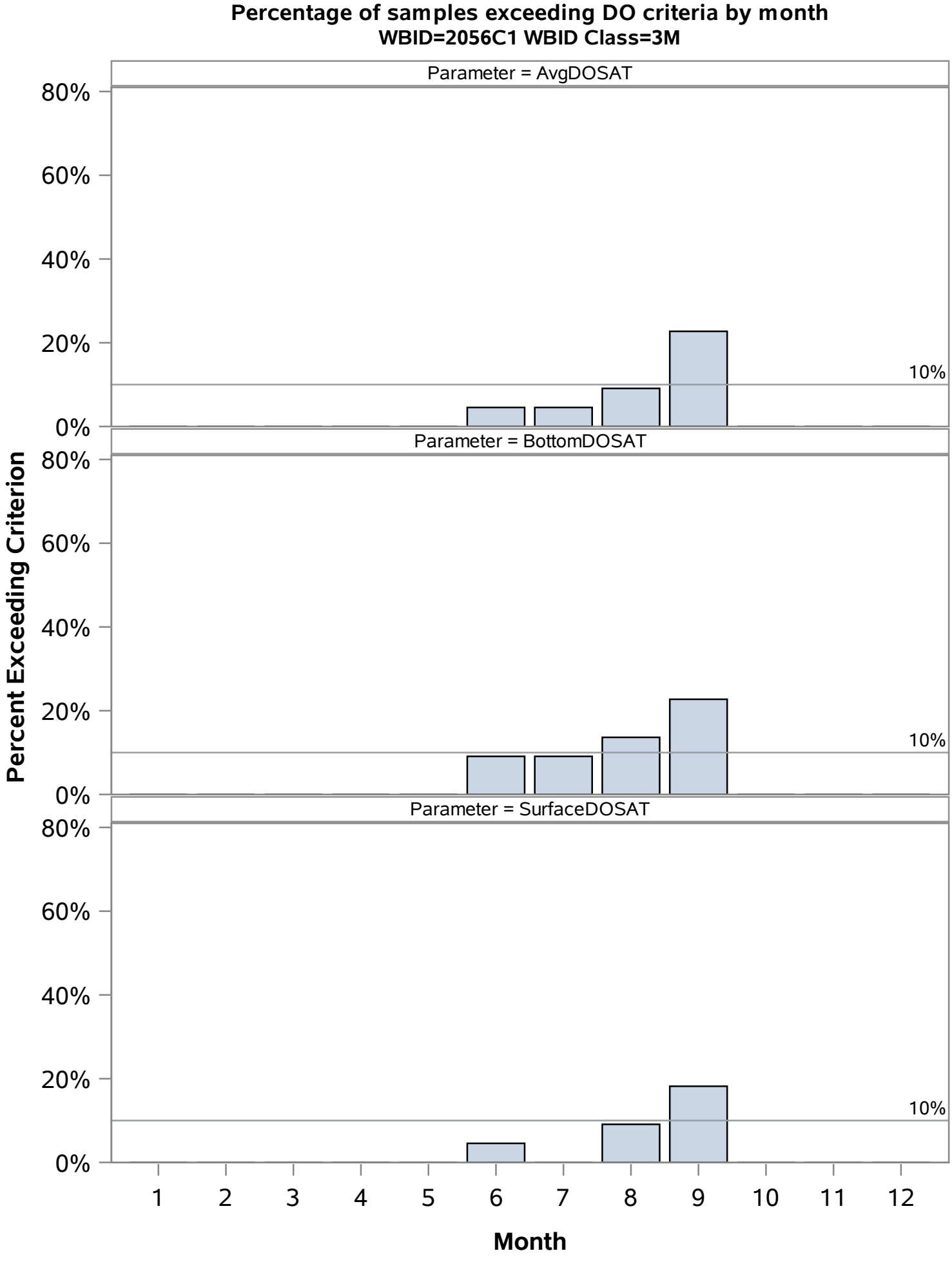

Percentage of samples exceeding DO criteria by year
WBID=2065A WBID Class=2
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
0%
10%
20%
30%
40%
10%
Year
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018

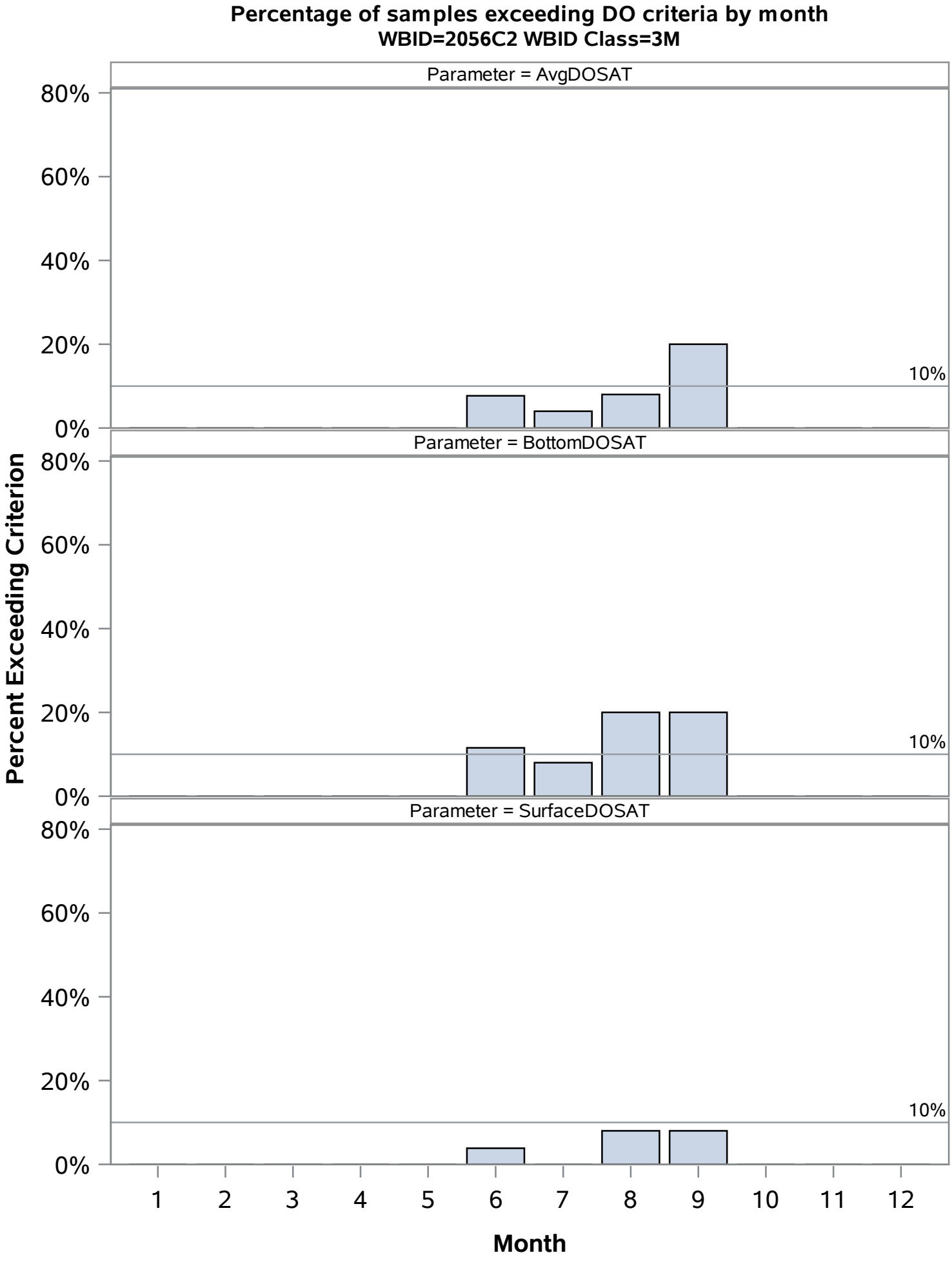

Percentage of samples exceeding DO criteria by month
WBID=1623A WBID Class=3F
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
80%
60%
40%
20%
0%
10%
1
2
3
4
5
6
7
8
9
10
11
12
Month

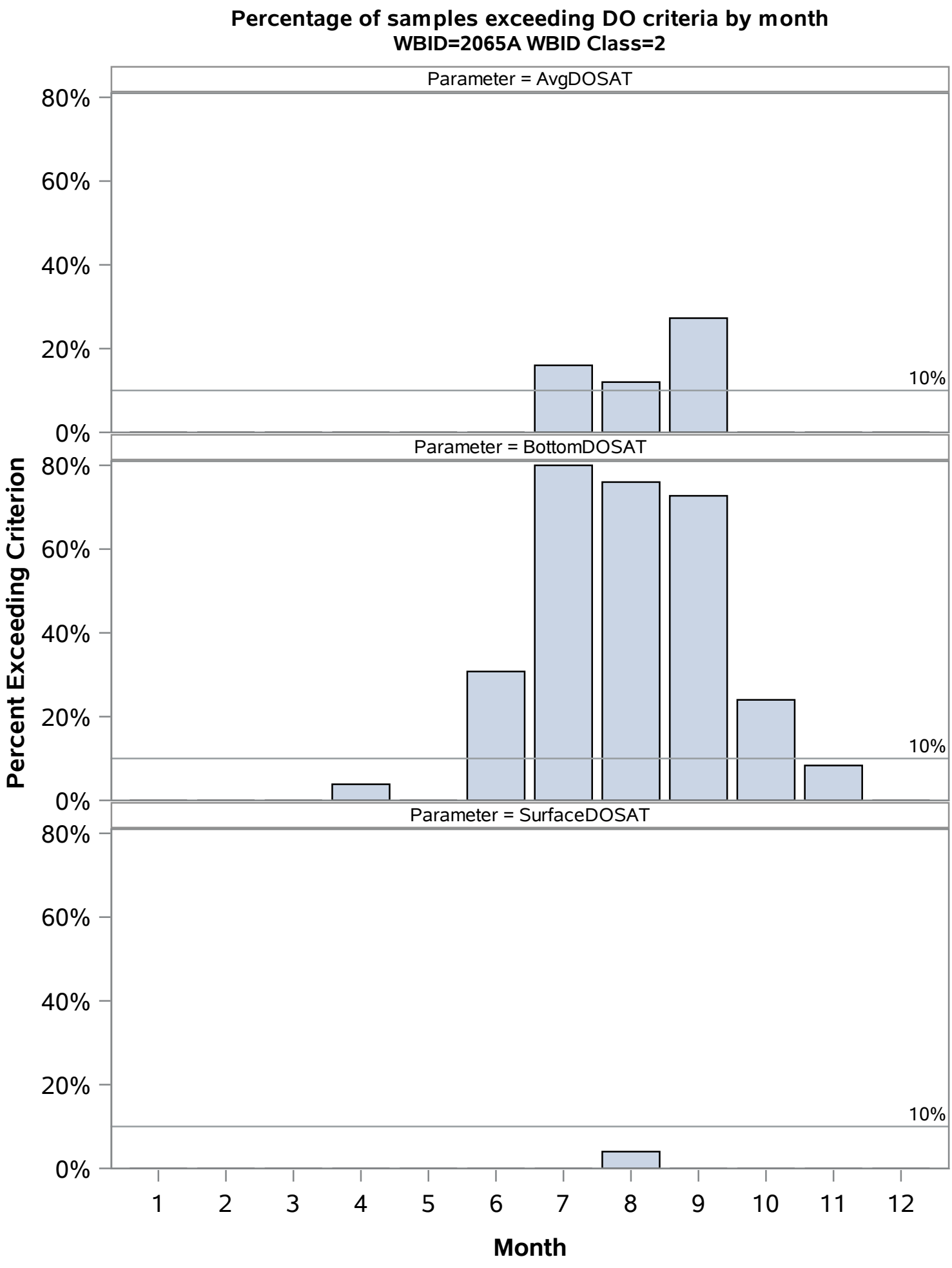

Percentage of samples exceeding DO criteria by month
WBID=1623B WBID Class=3F
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
80%
60%
40%
20%
0%
10%
Percent Exceeding Criterion
1
2
3
4
5
6
7
8
9
10
11
12
Month


Percentage of samples exceeding DO criteria by month
WBID=2056A WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
80%
60%
40%
20%
0%
10%
1
2
3
4
5
6
7
8
9
10
11
12
Month


Percentage of samples exceeding DO criteria by month
WBID=2056B WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
80%
60%
40%
20%
0%
10%
1
2
3
4
5
6
7
8
9
10
11
12
Month

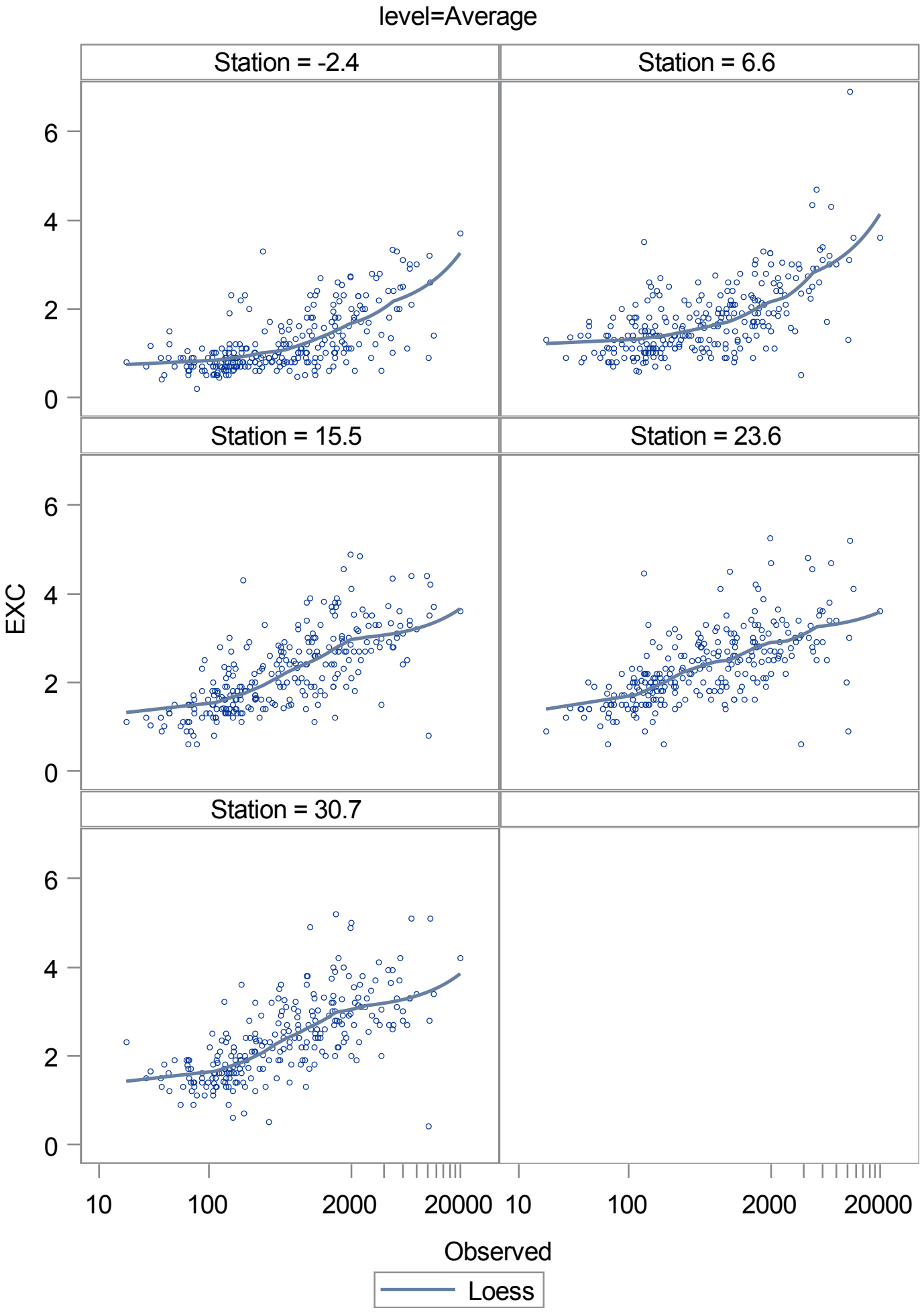

Percentage of samples exceeding DO criteria by month
WBID=2056C1 WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
80%
60%
40%
20%
0%
10%
1
2
3
4
5
6
7
8
9
10
11
12
Month

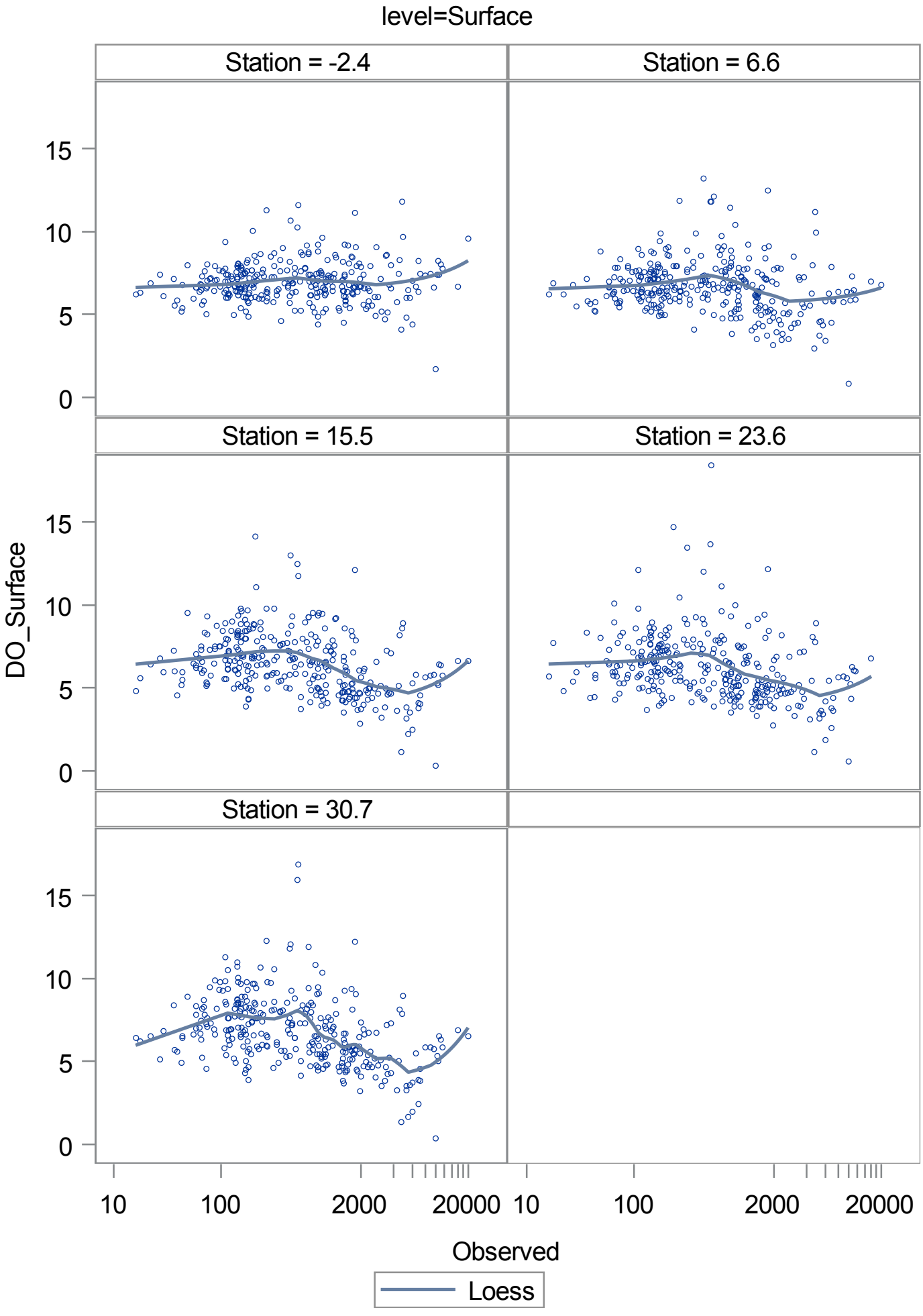

Percentage of samples exceeding DO criteria by month
WBID=2056C2 WBID Class=3M
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
80%
60%
40%
20%
0%
10%
Percent Exceeding Criterion
1
2
3
4
5
6
7
8
9
10
11
12
Month

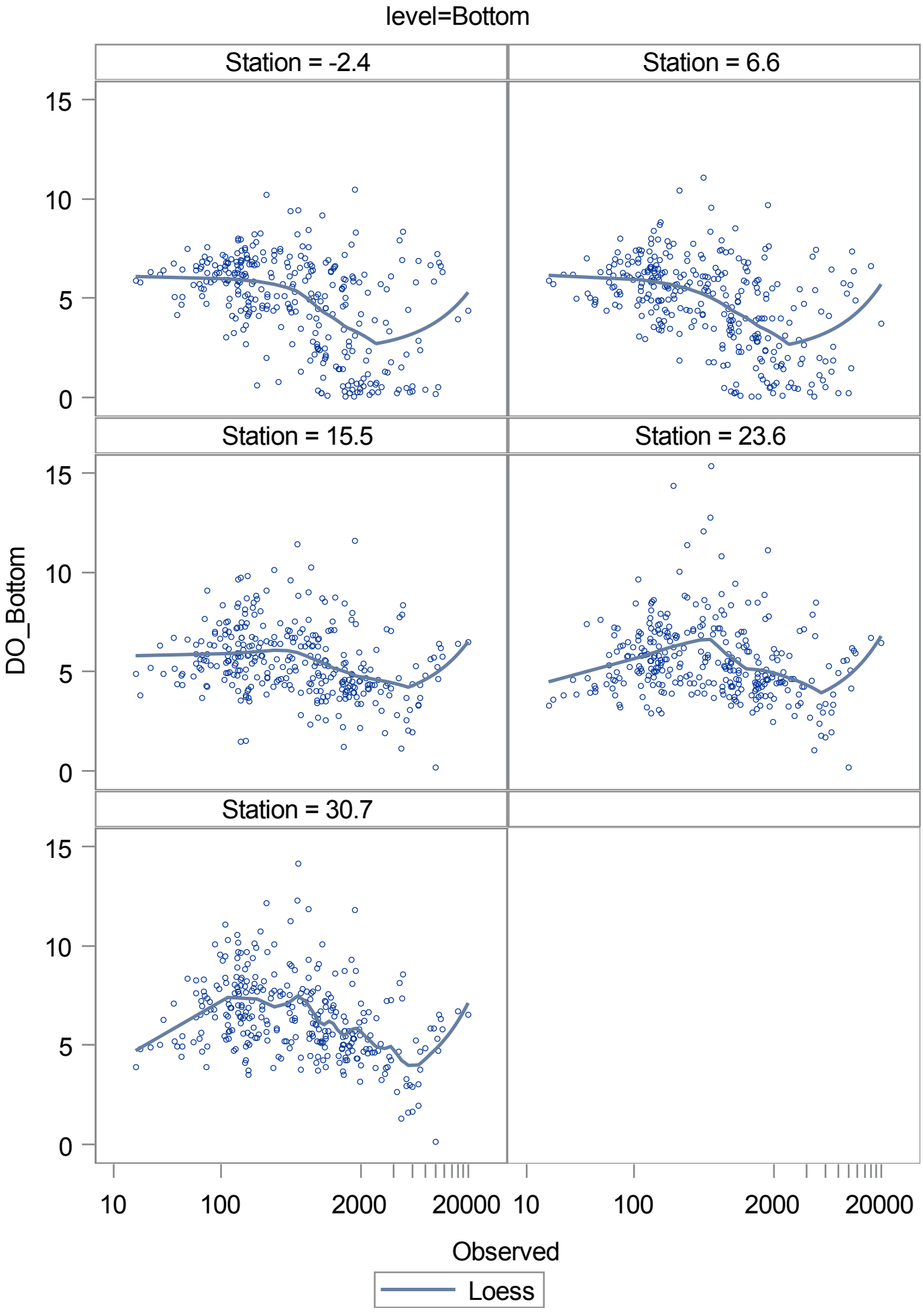

Percentage of samples exceeding DO criteria by month
WBID=2065A WBID Class=2
Parameter = AvgDOSAT
Parameter = BottomDOSAT
Parameter = SurfaceDOSAT
Percent Exceeding Criterion
80%
60%
40%
20%
0%
10%
1
2
3
4
5
6
7
8
9
10
11
12
Month

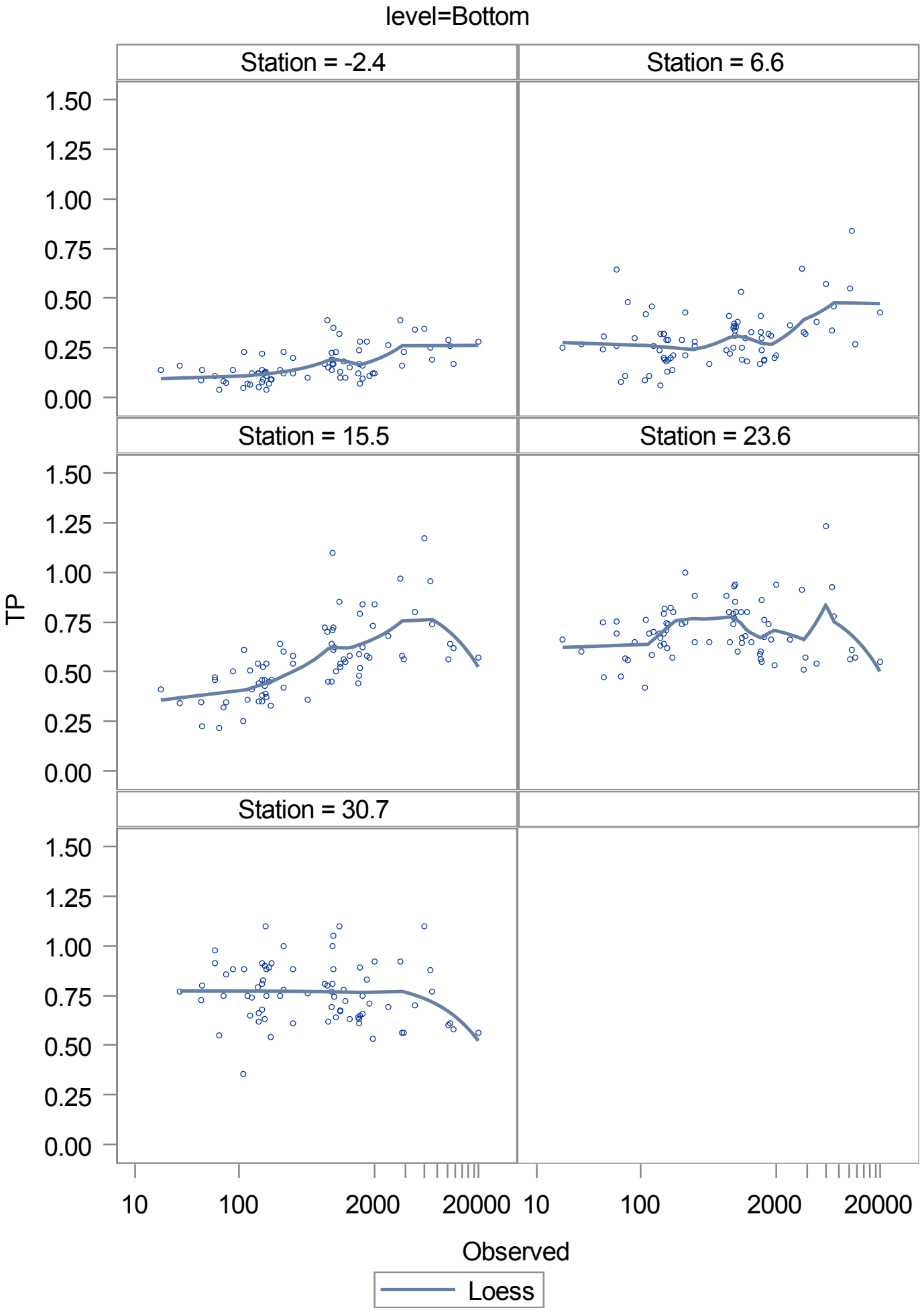
APPENDIX K

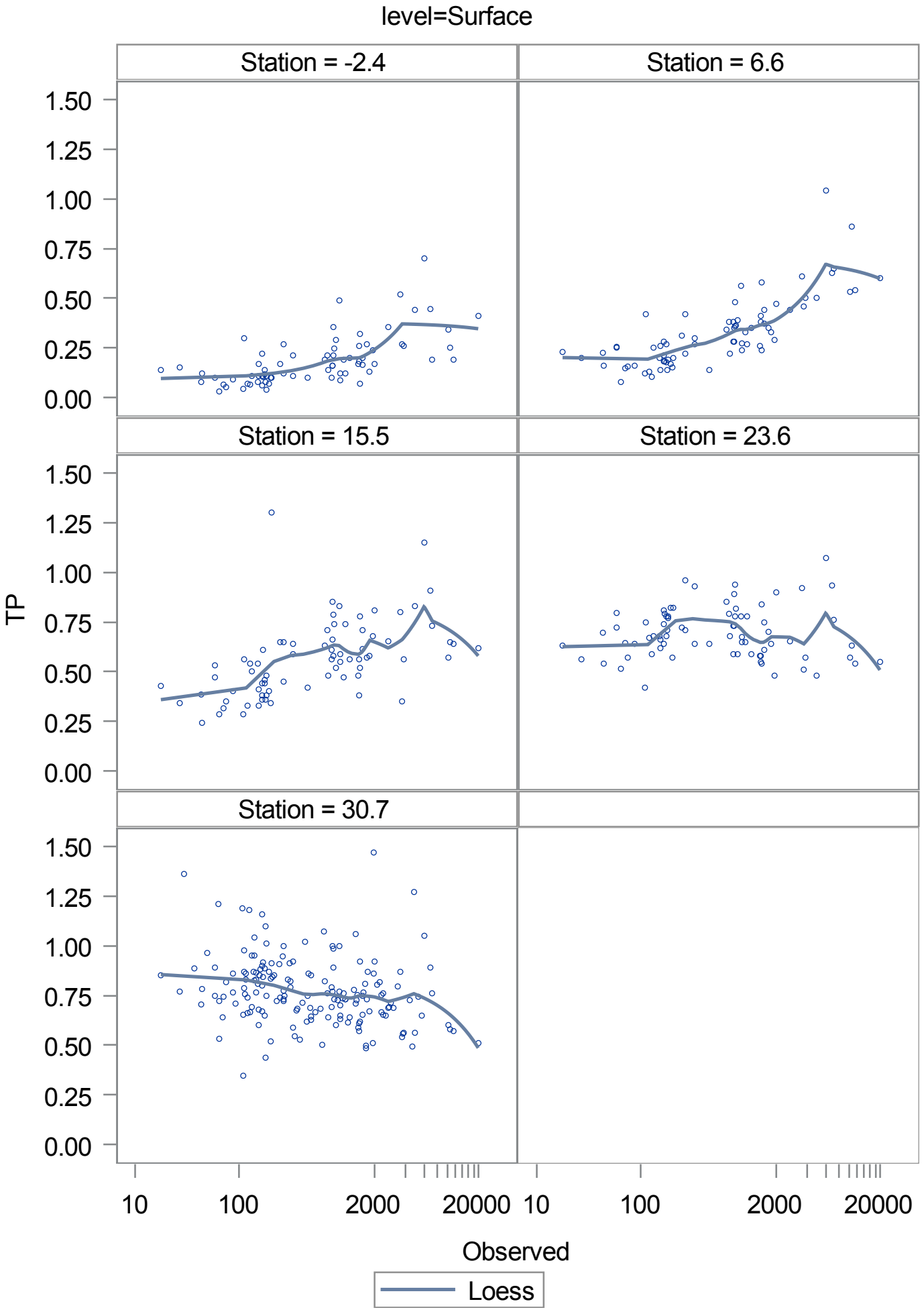
Bivariate Plots Against Flows

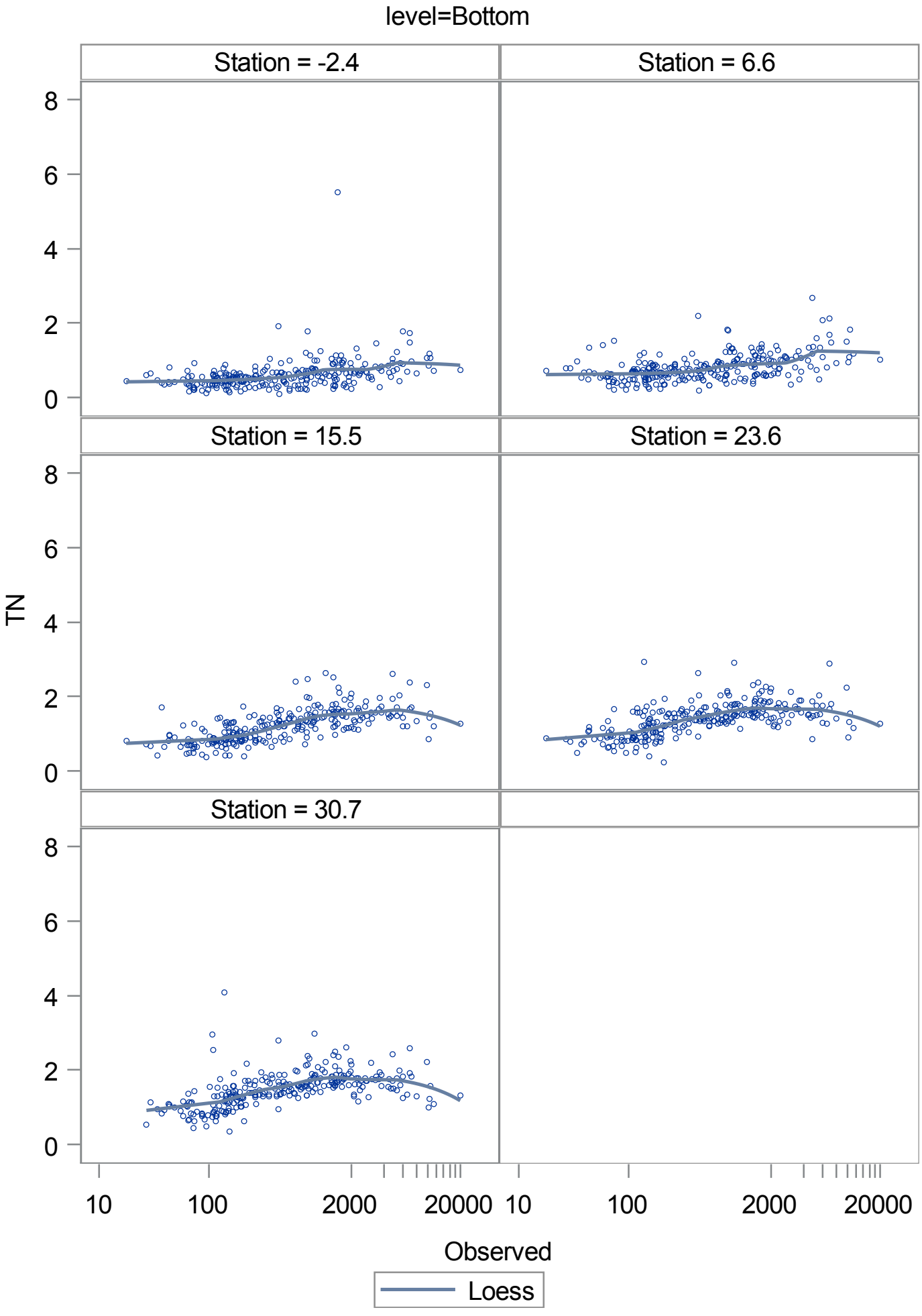

level=Average
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
EXC
0
2
4
6
10
100
2000
20000
Observed
Loess

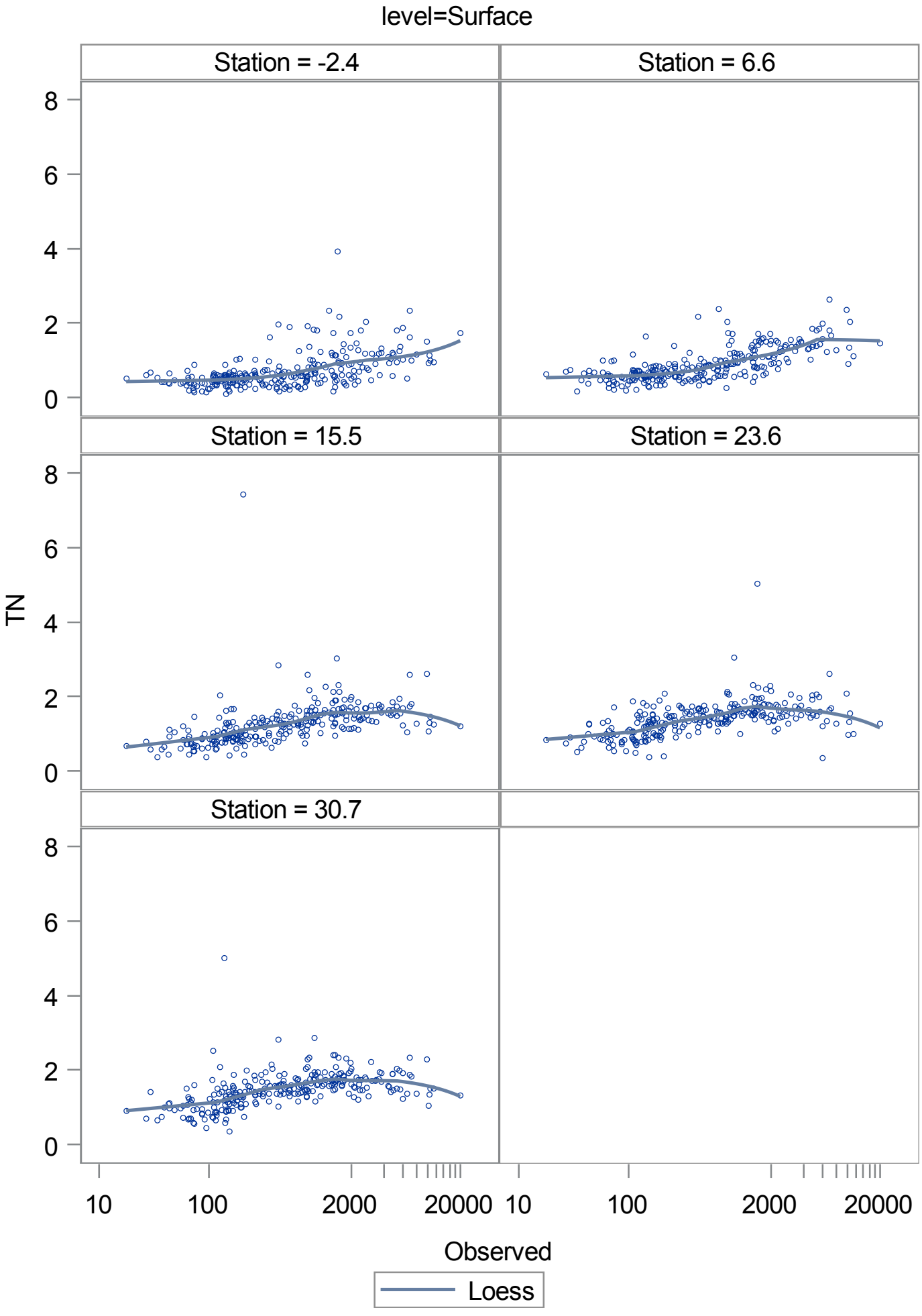

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
DO_Surface
0
5
10
15
10
100
2000
20000
Observed
Loess

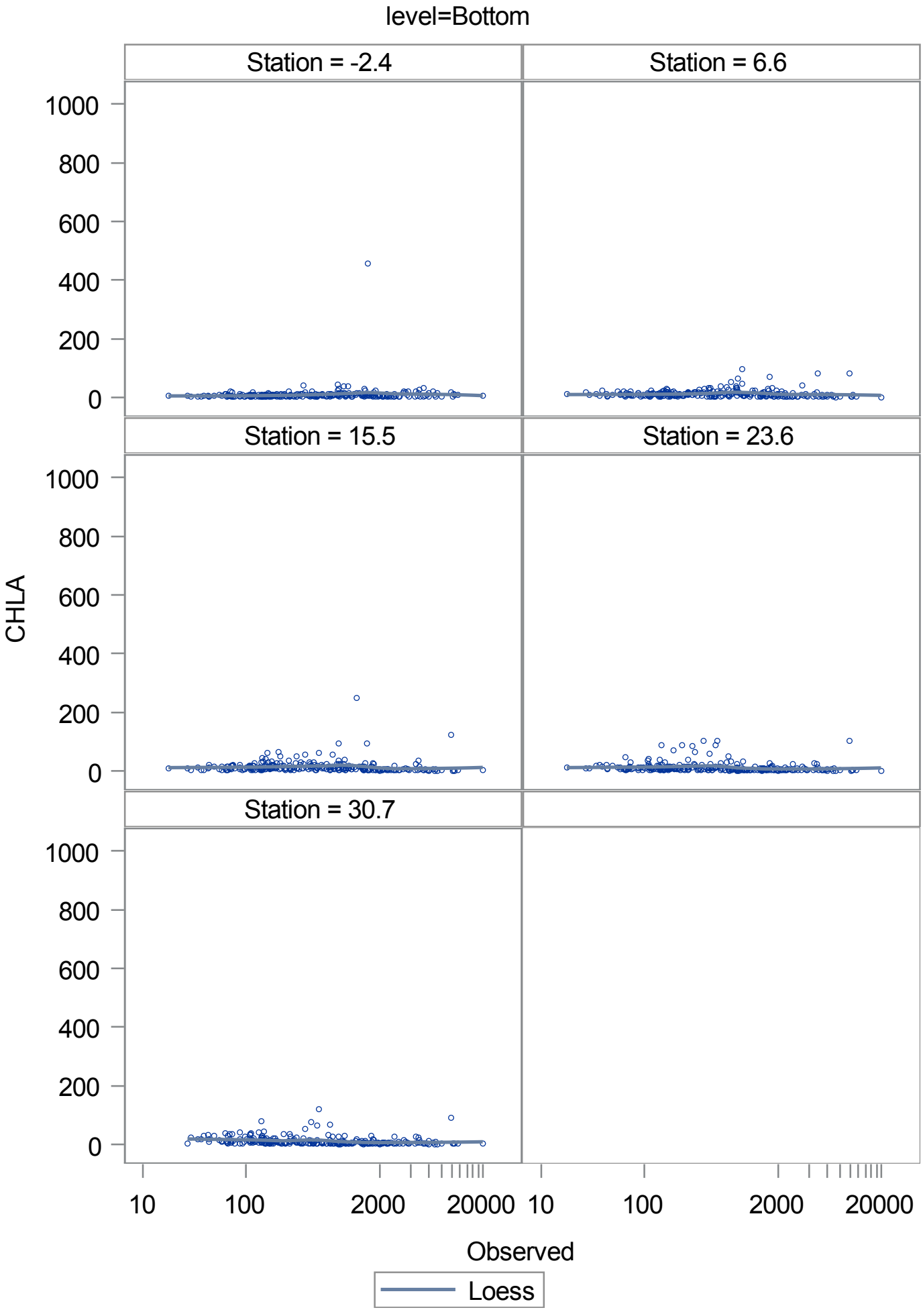

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
DO_Bottom
0
5
10
15
10
100
2000
20000
Observed
Loess

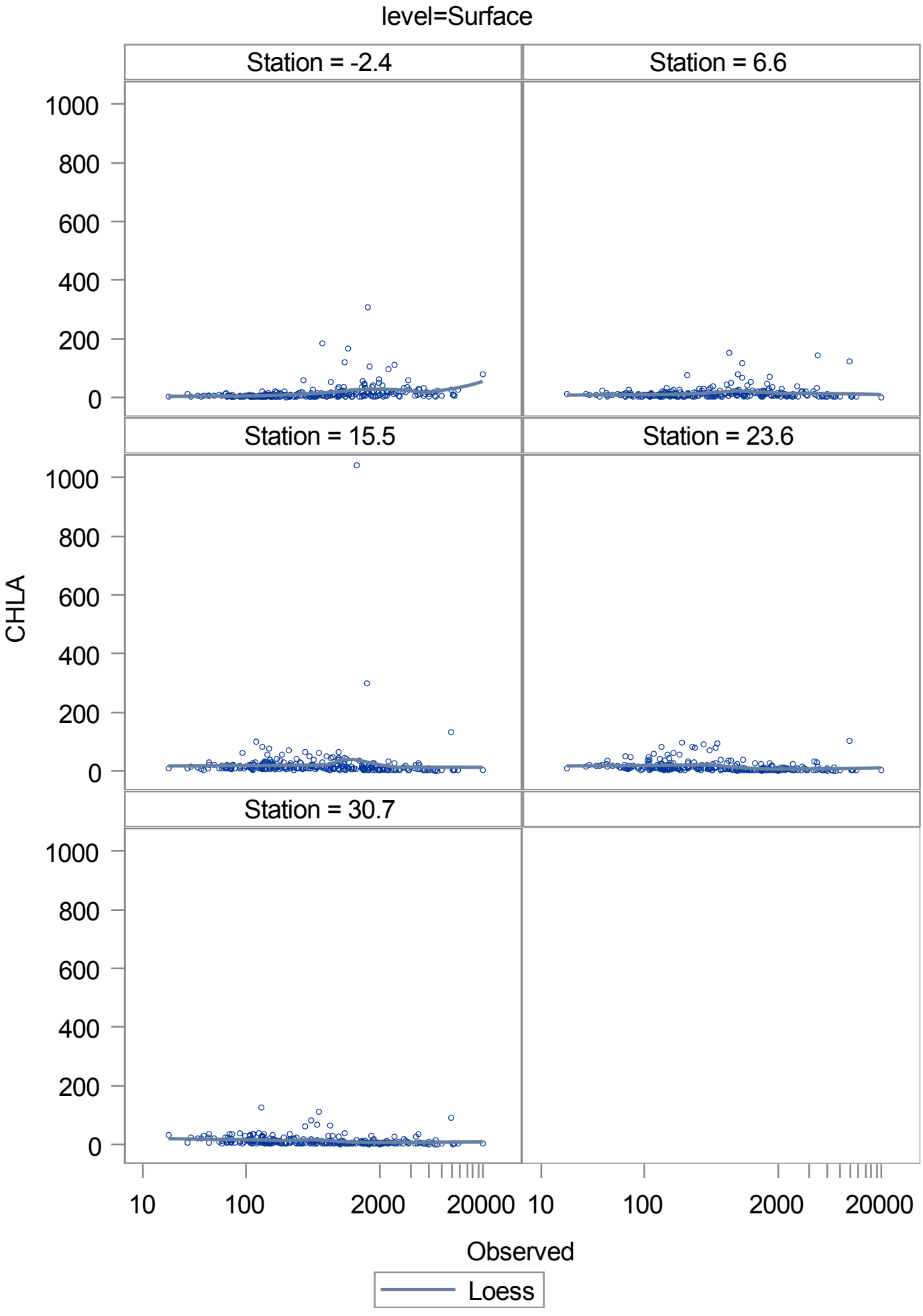

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TP
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
100
2000
20000
Observed
Loess

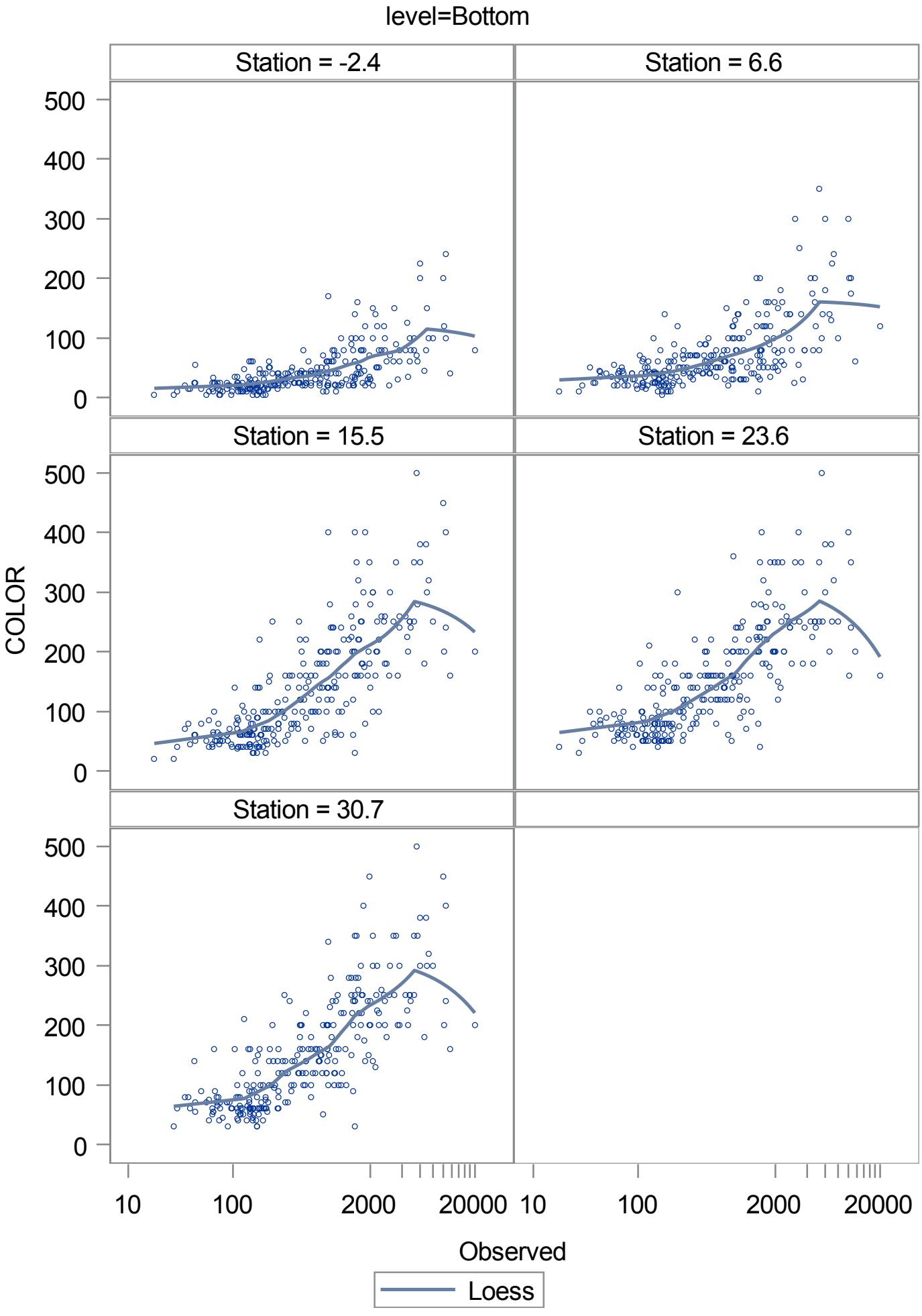

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TP
1.50
1.25
1.00
0.75
0.50
0.25
0.00
10
100
2000
20000
Observed
Loess

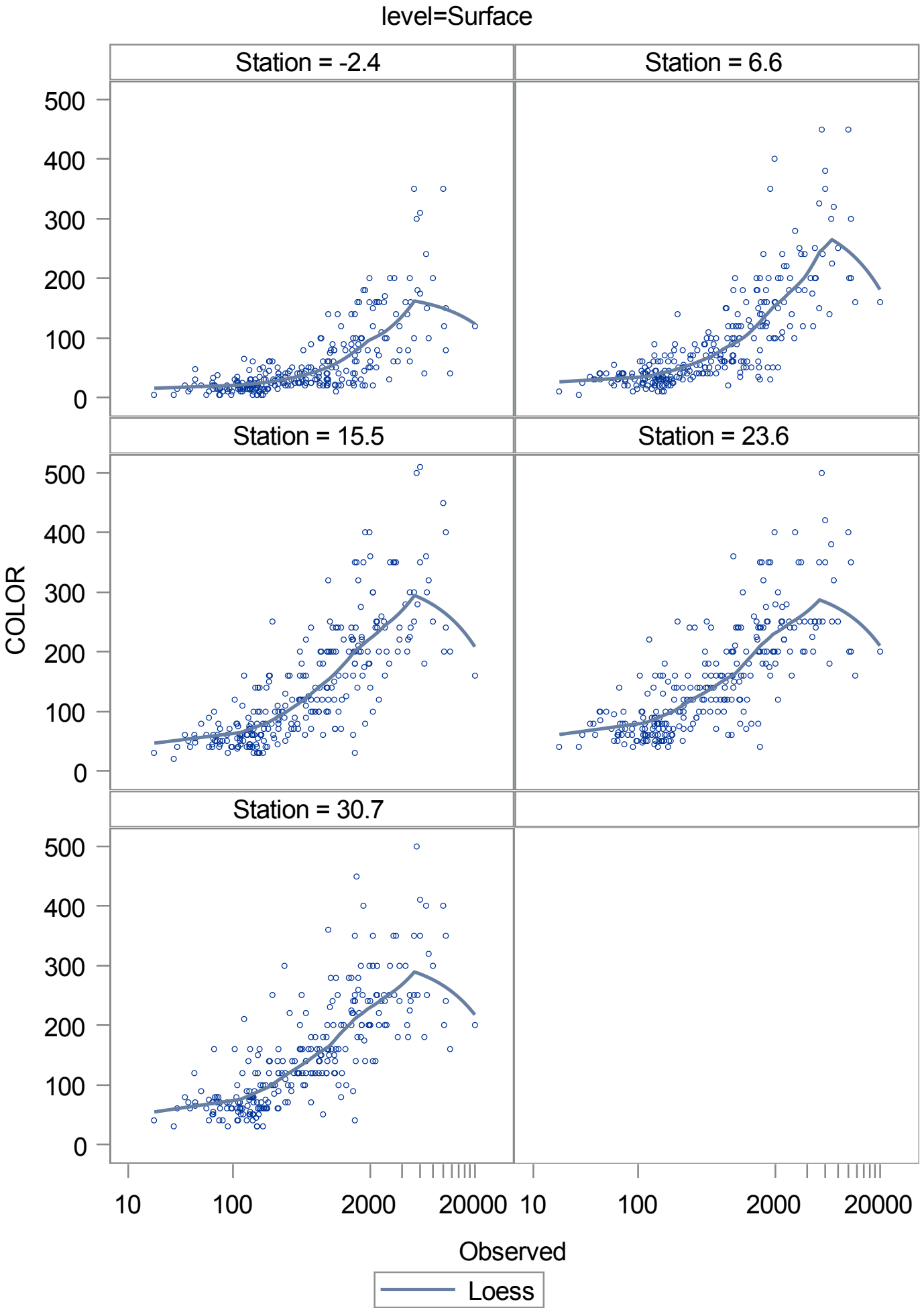

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TN
0
2
4
6
8
10
100
2000
20000
Observed
Loess

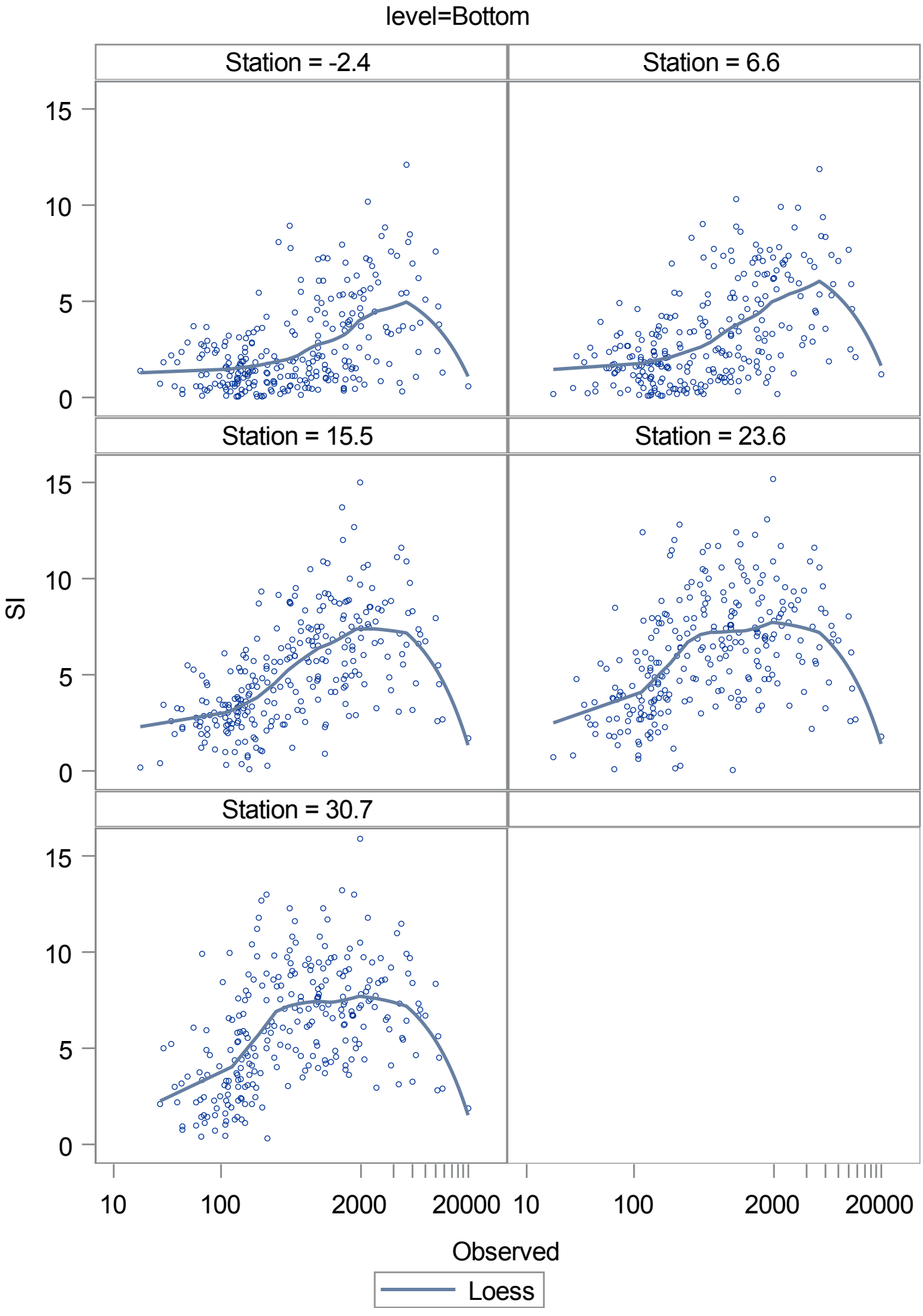

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TN
0
2
4
6
8
10
100
2000
20000
Observed
Loess


level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
CHLA
1000
800
600
400
200
0
10
100
2000
20000
Observed
Loess

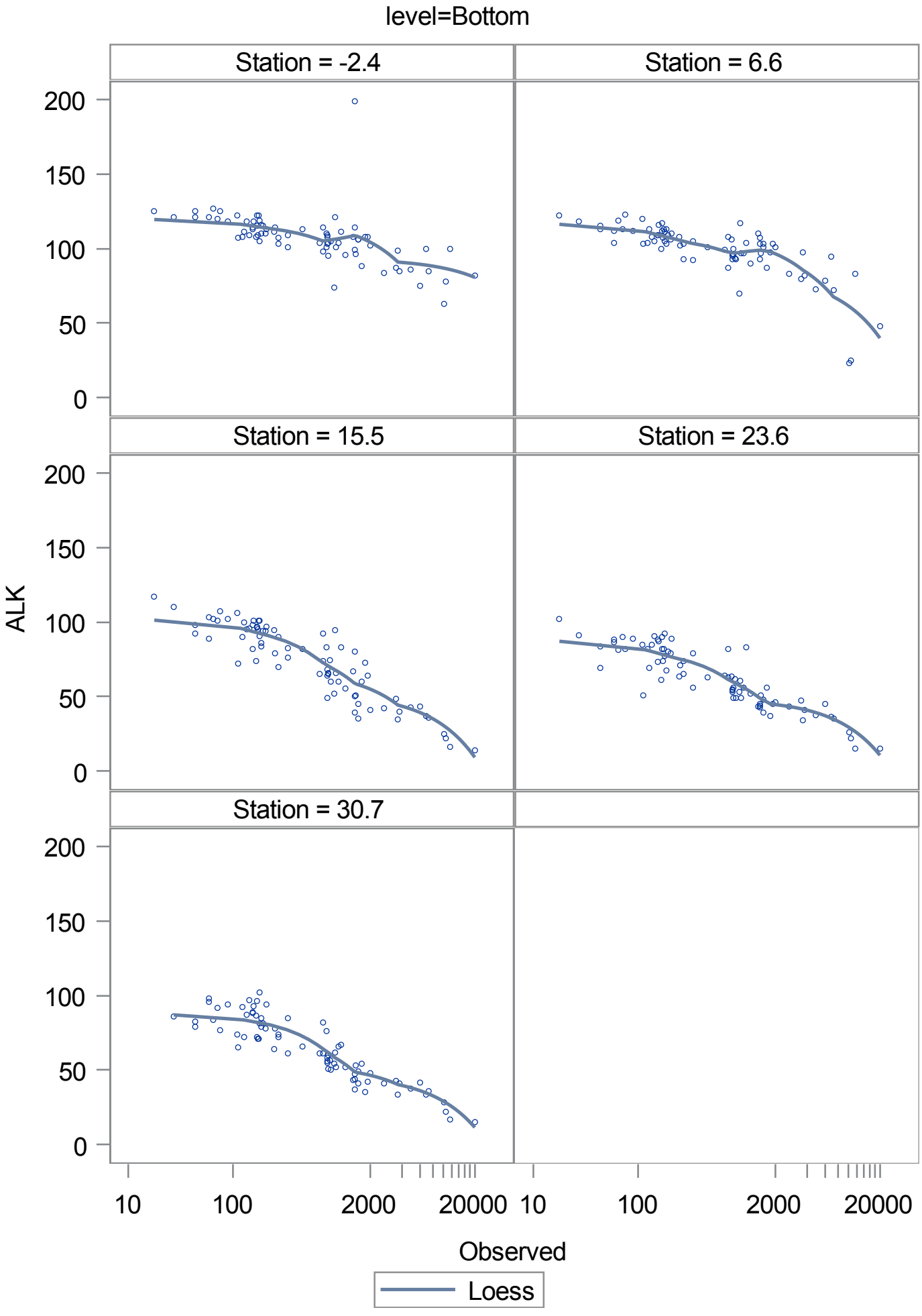

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
CHLA
1000
800
600
400
200
0
10
100
2000
20000
Observed
Loess

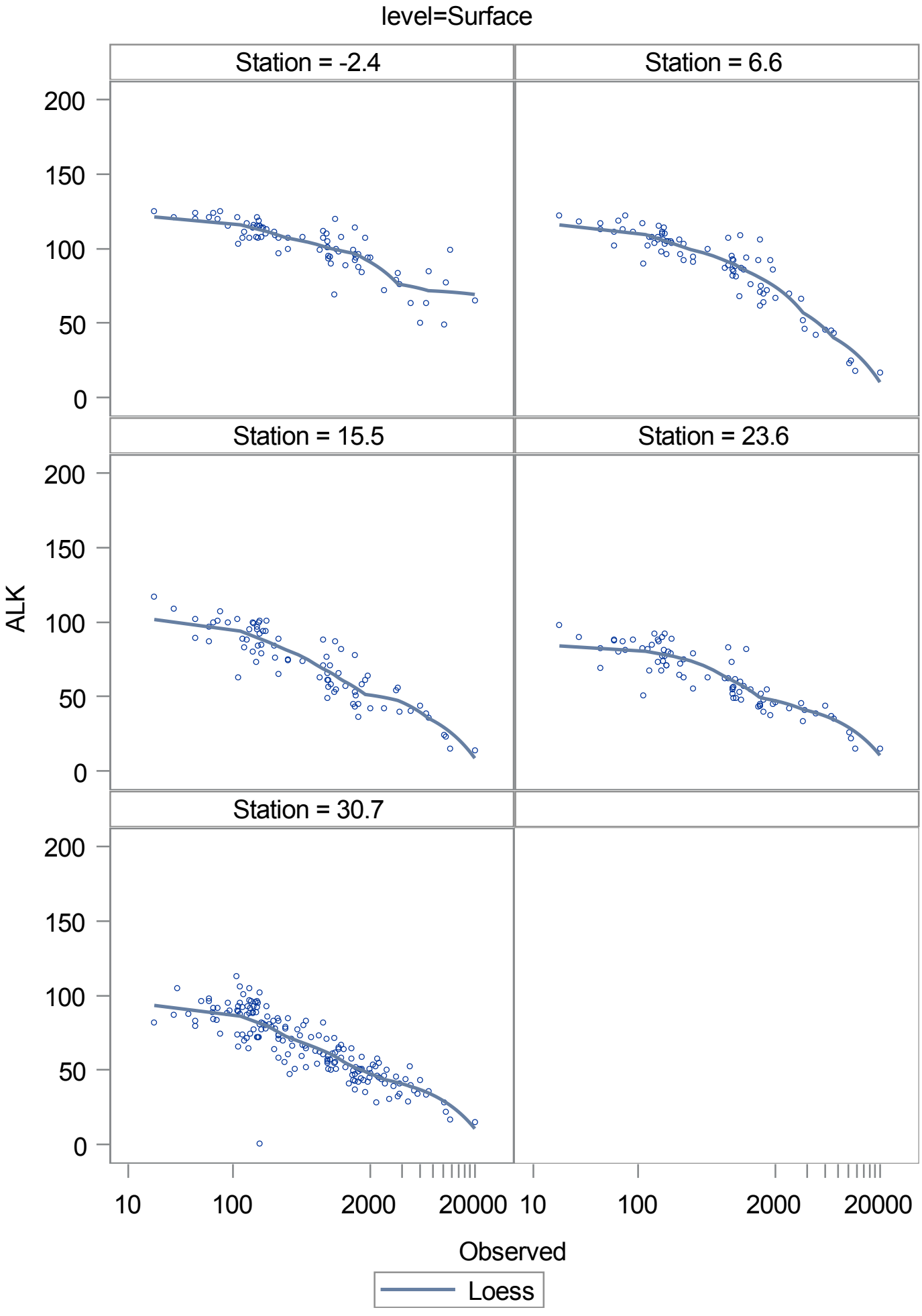

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
COLOR
0
100
200
300
400
500
10
100
2000
20000
Observed
Loess

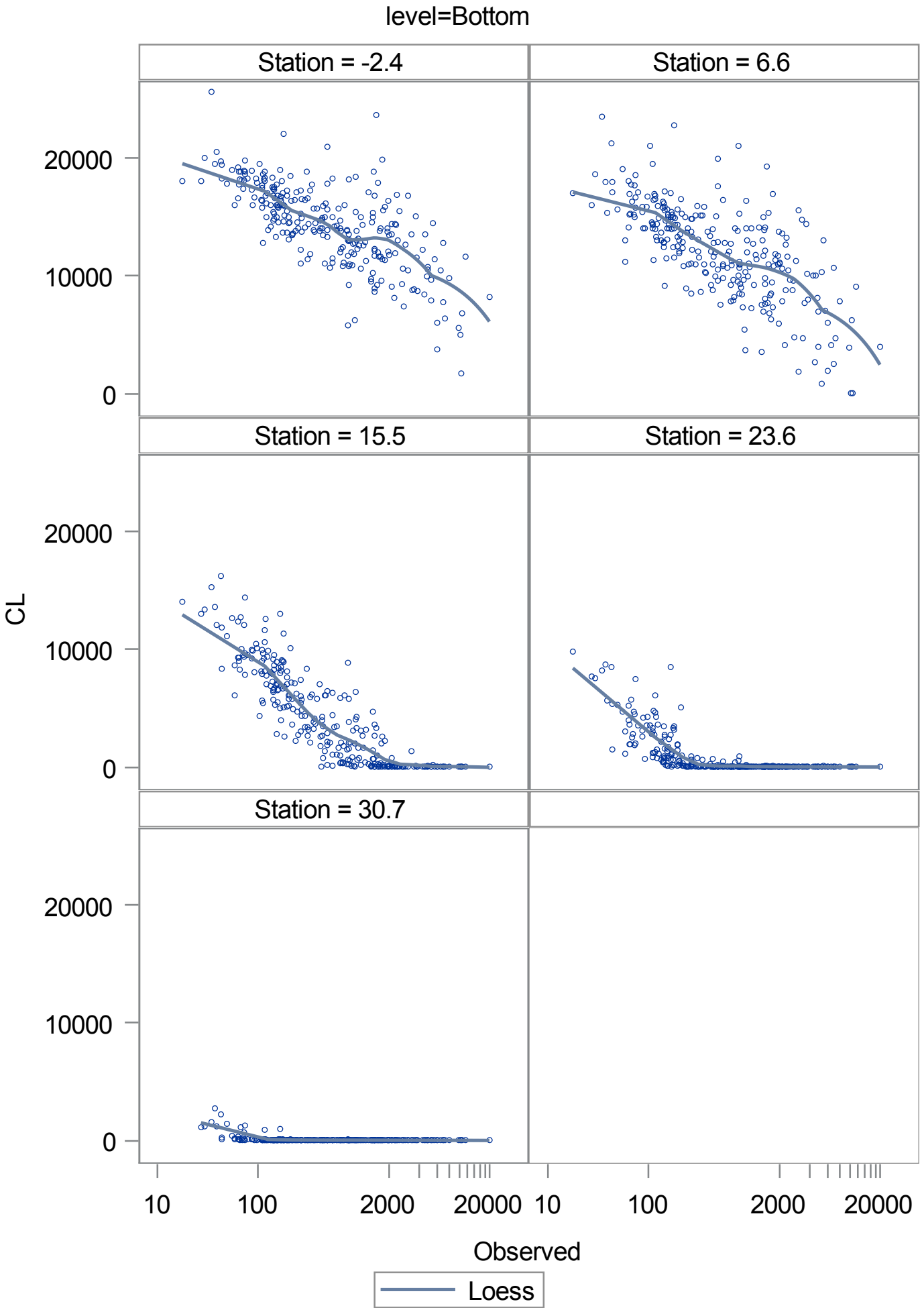

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
COLOR
0
100
200
300
400
500
10
100
2000
20000
Observed
Loess

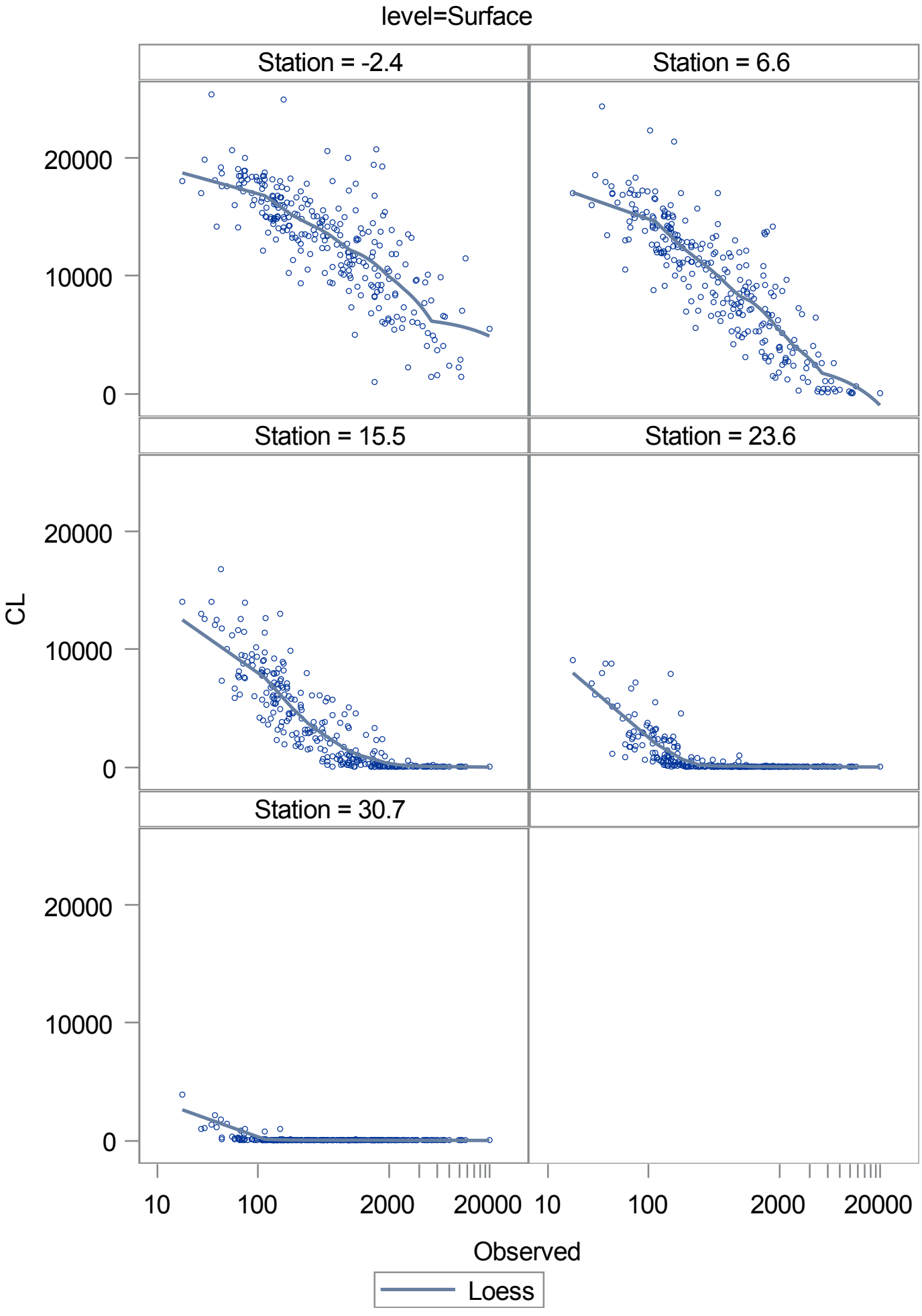

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
SI
0
5
10
15
10
100
2000
20000
Observed
Loess

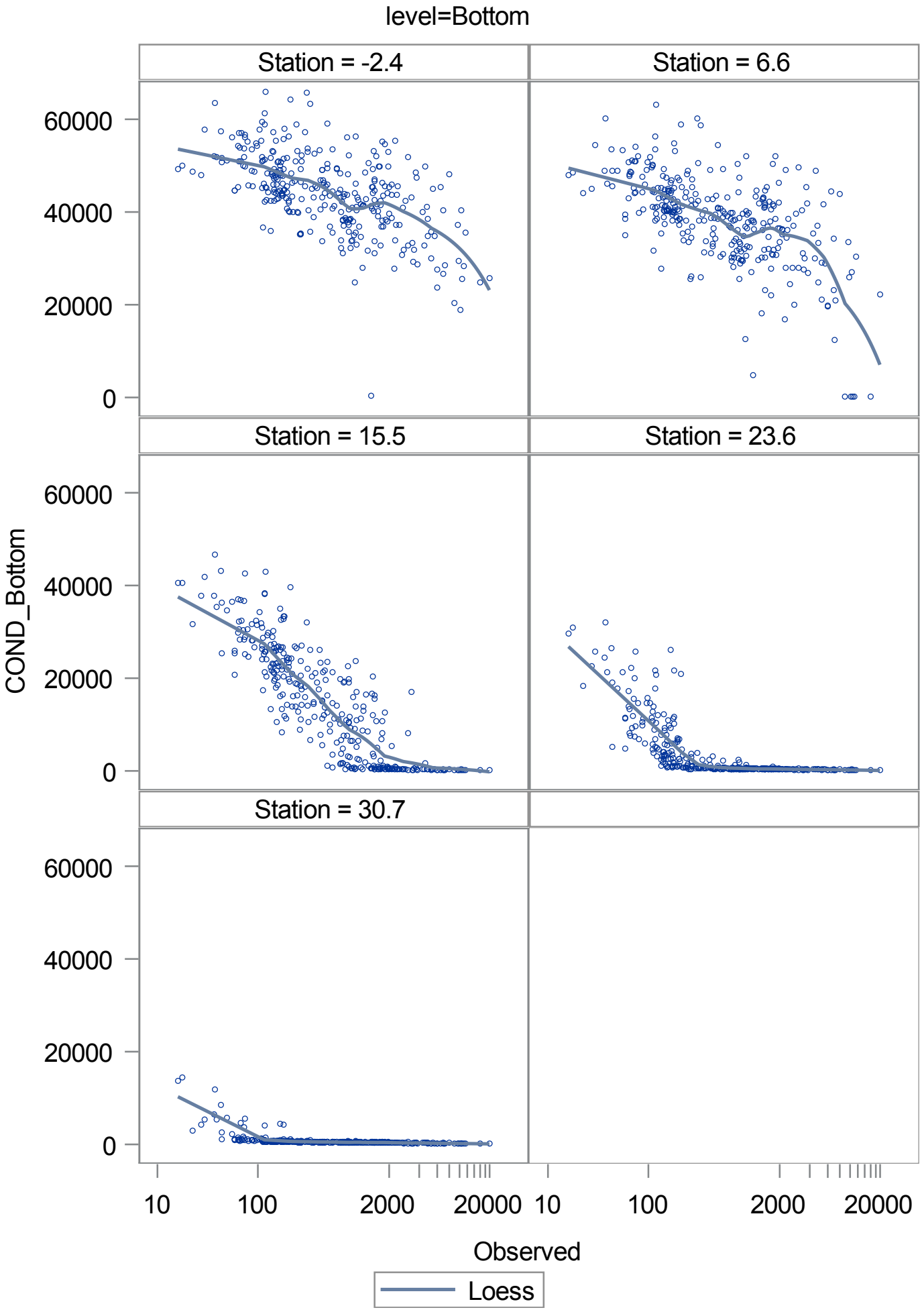

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
SI
0
5
10
15
10
100
2000
20000
Observed
Loess

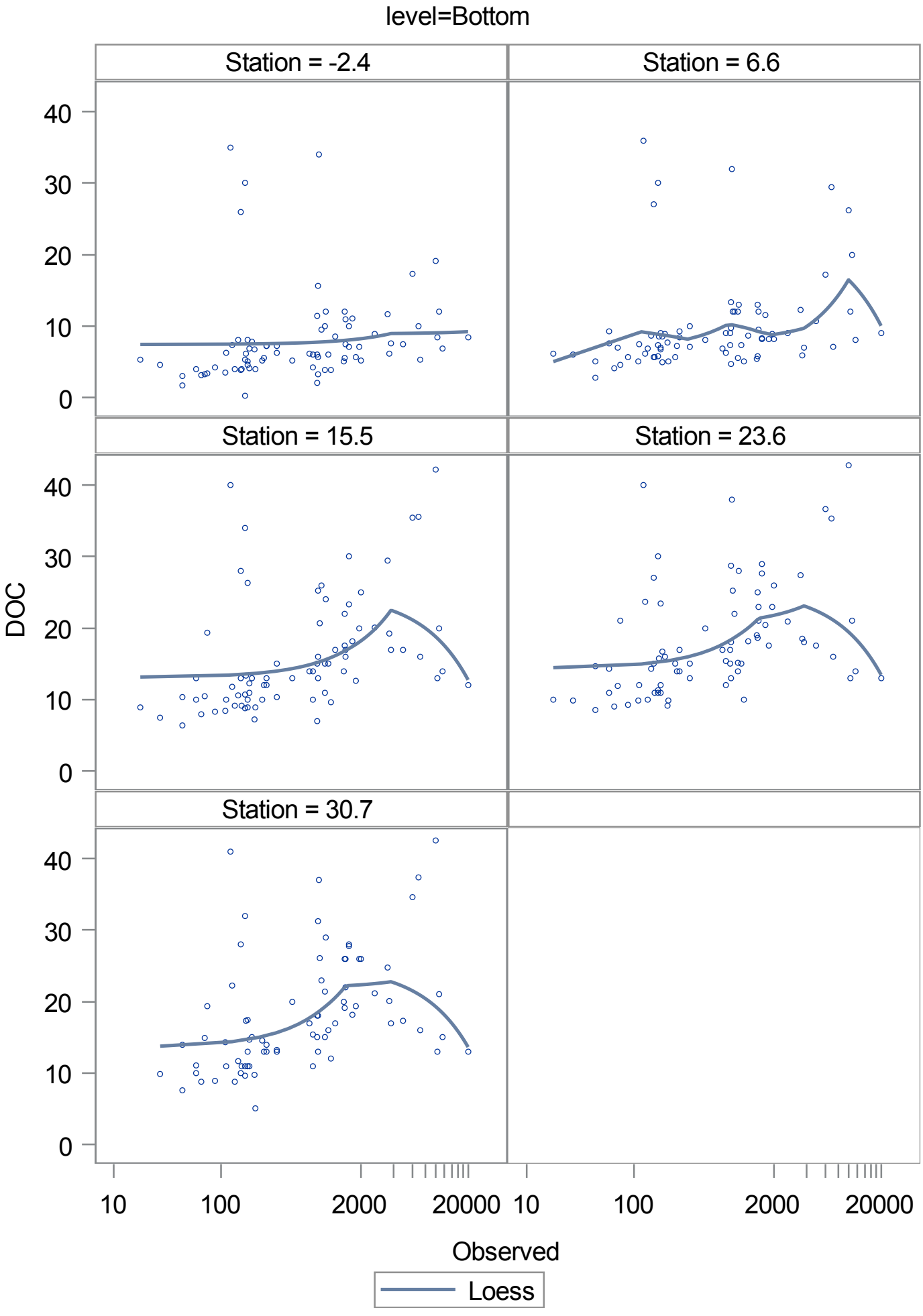

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
ALK
200
150
100
50
0
10
100
2000
20000
Observed
Loess

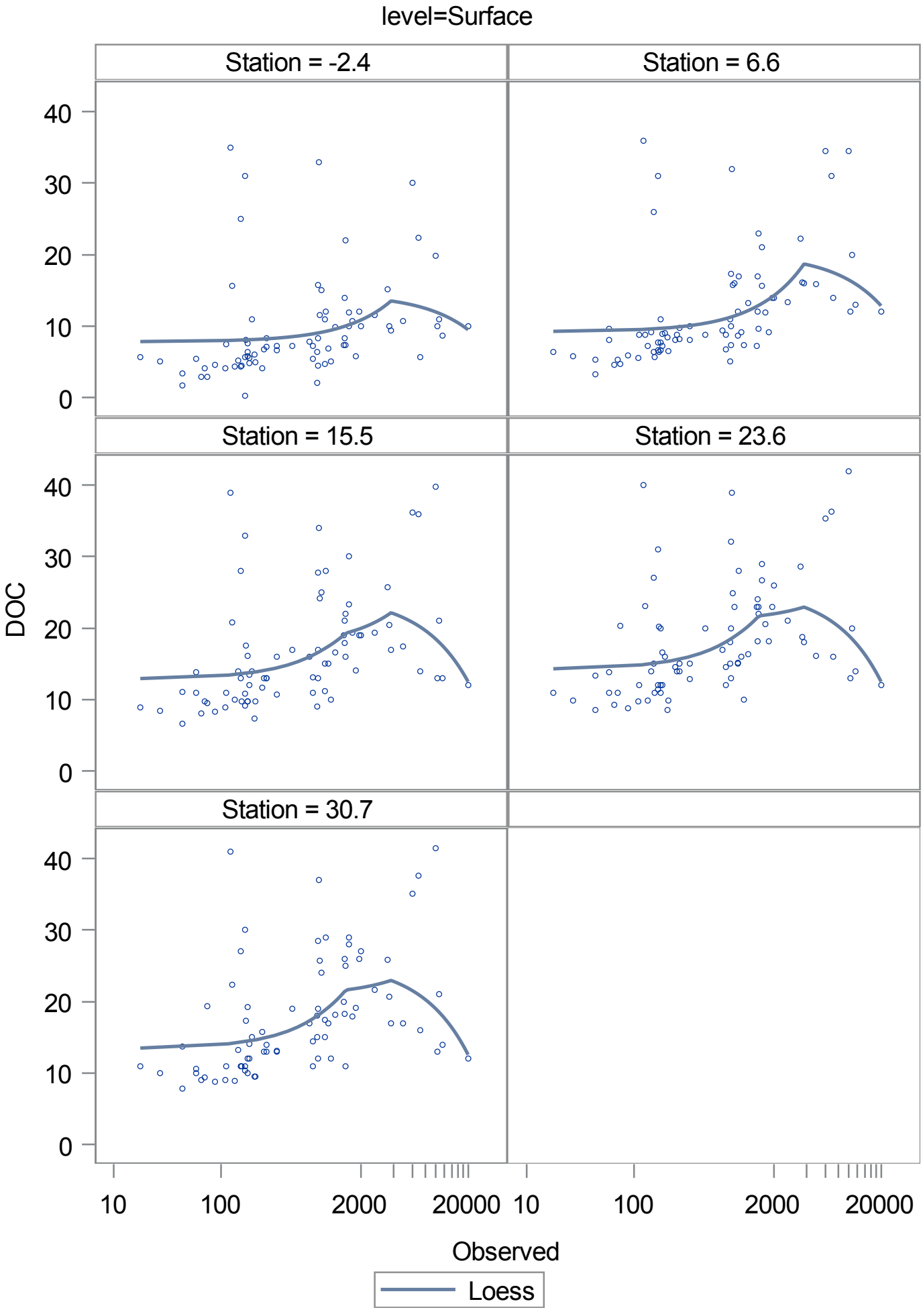

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
ALK
200
150
100
50
0
10
100
2000
20000
Observed
Loess

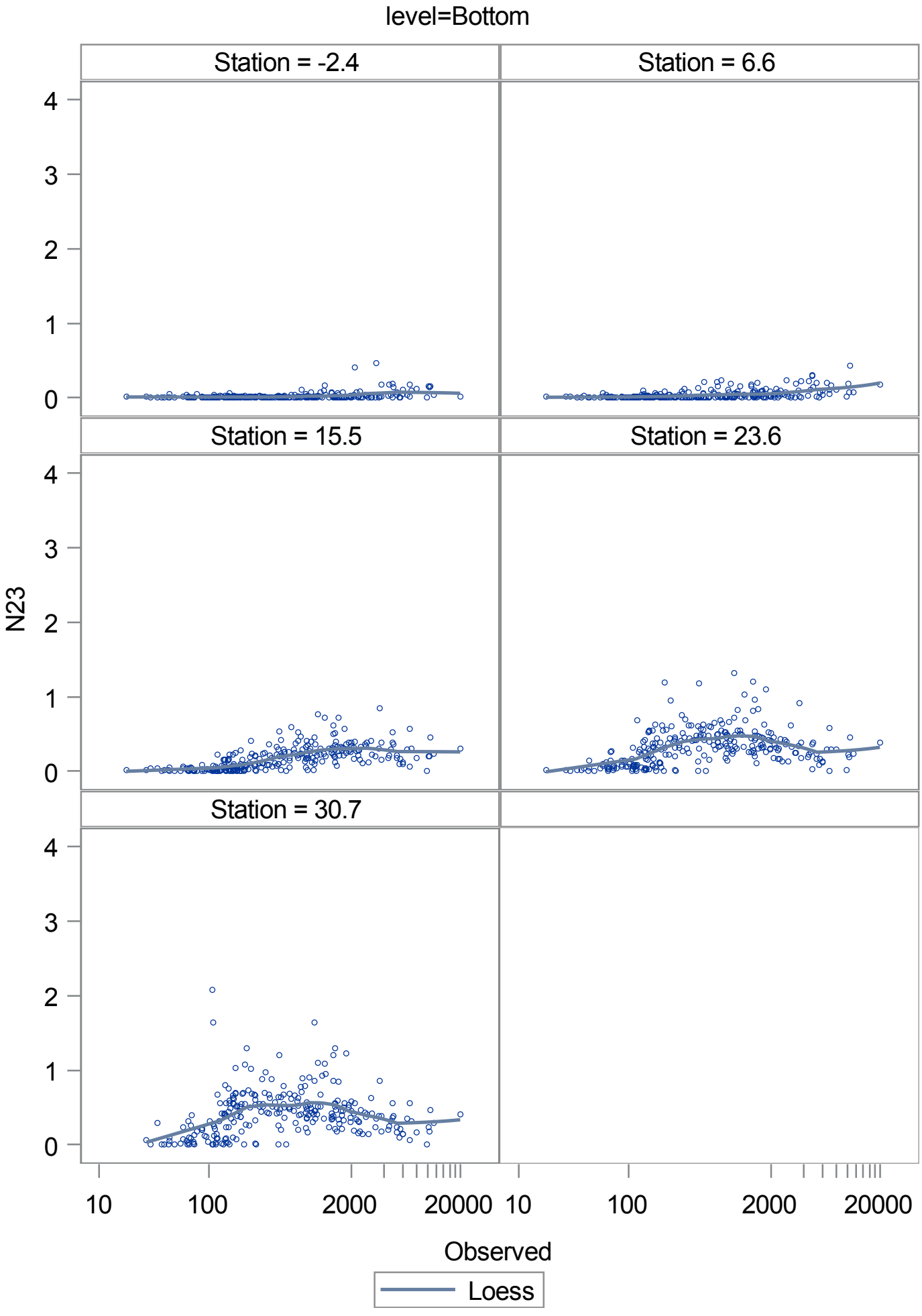

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
CL
20000
10000
0
10
100
2000
20000
Observed
Loess

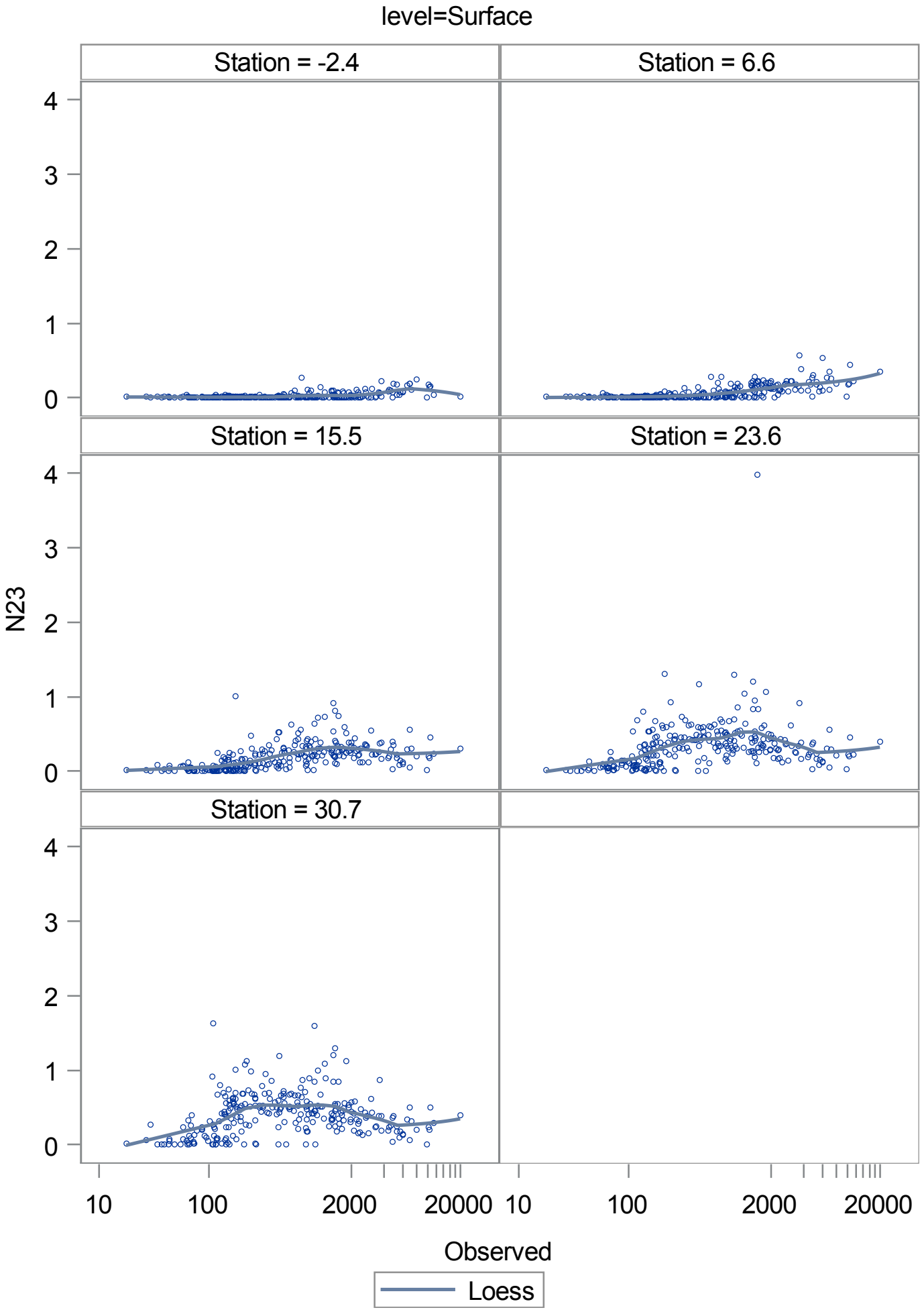

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
CL
20000
10000
0
10
100
2000
20000
Observed
Loess

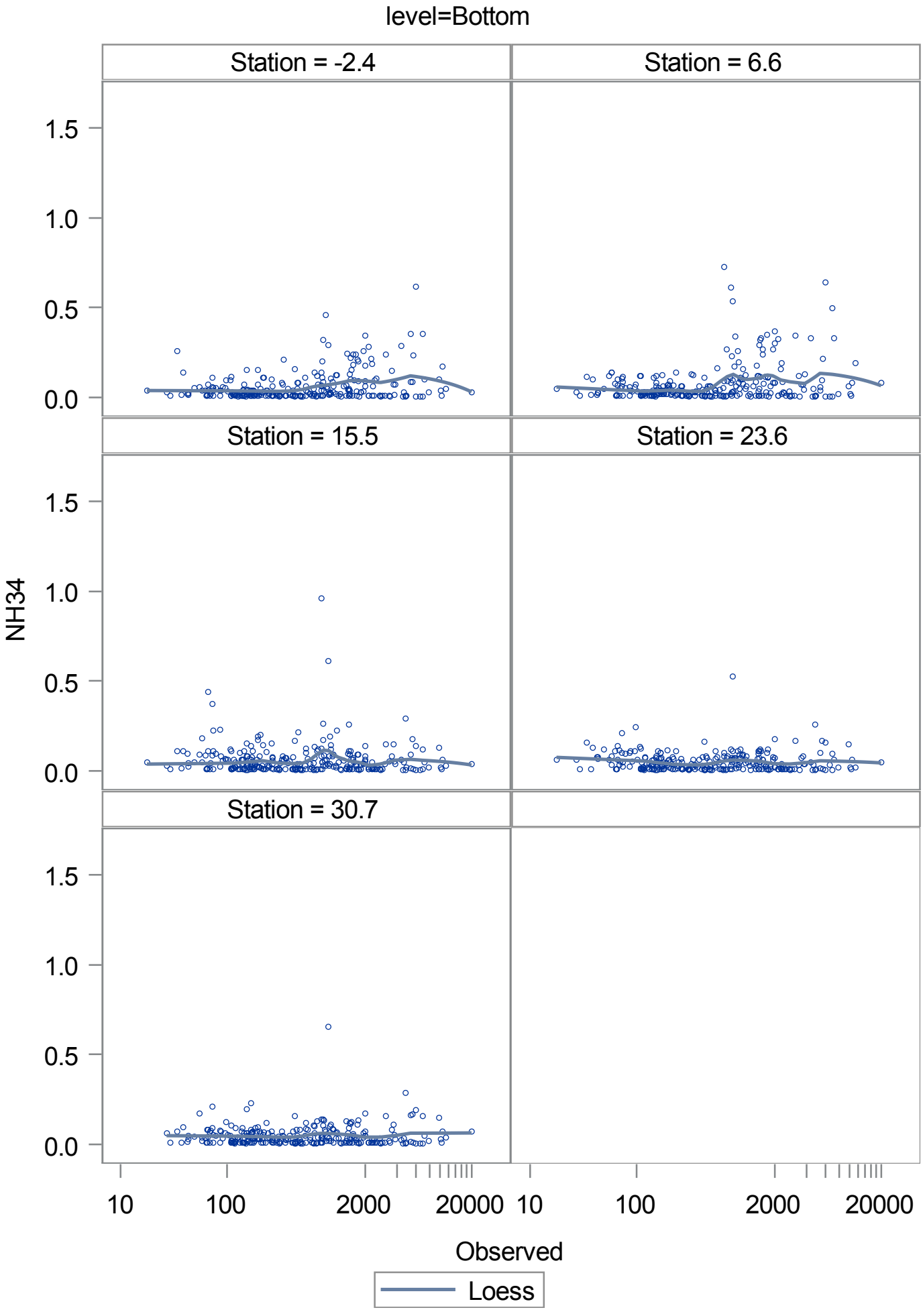

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
COND_Bottom
60000
40000
20000
0
10
100
2000
20000
Observed
Loess

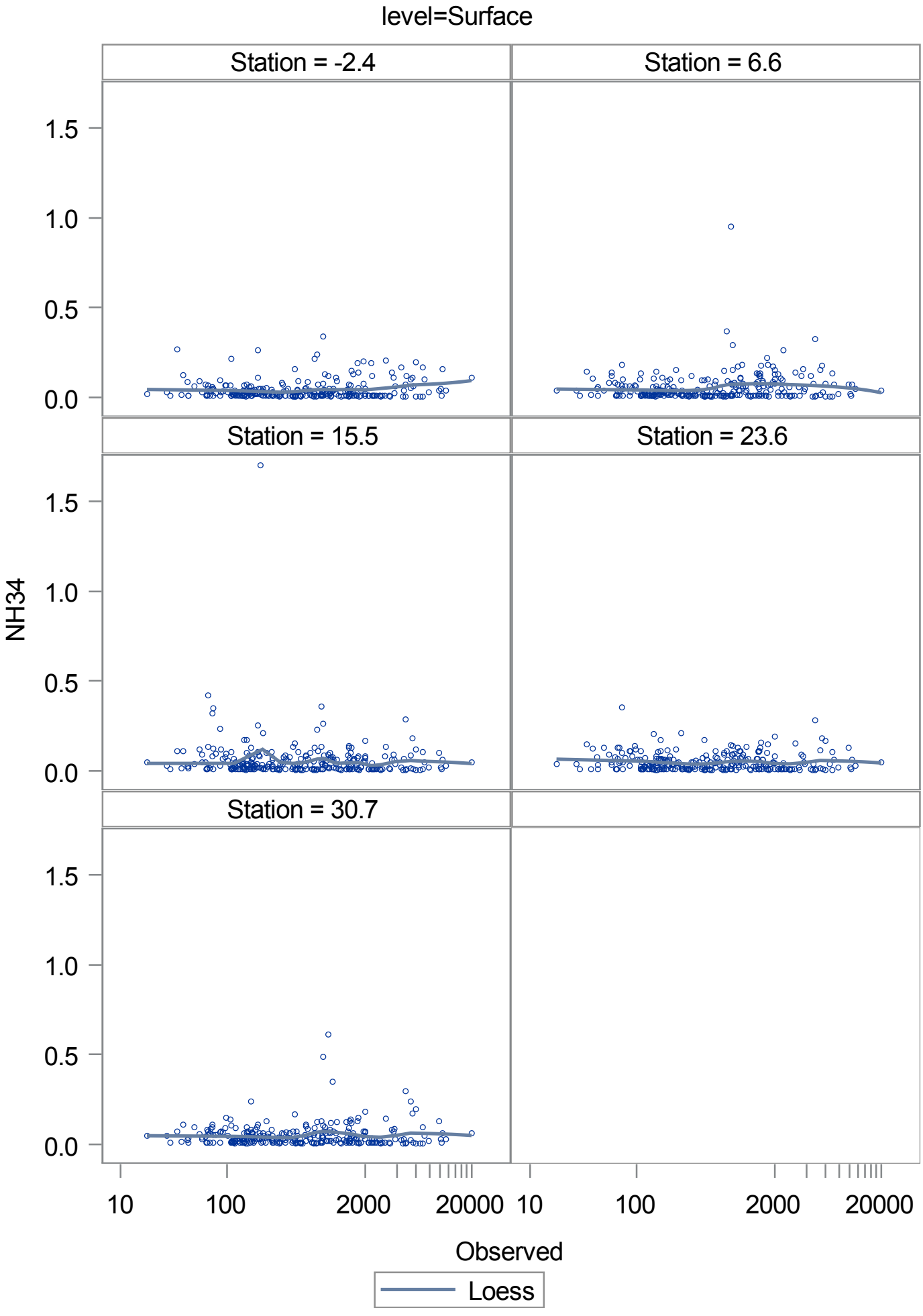

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
DOC
0
10
20
30
40
10
100
2000
20000
Observed
Loess

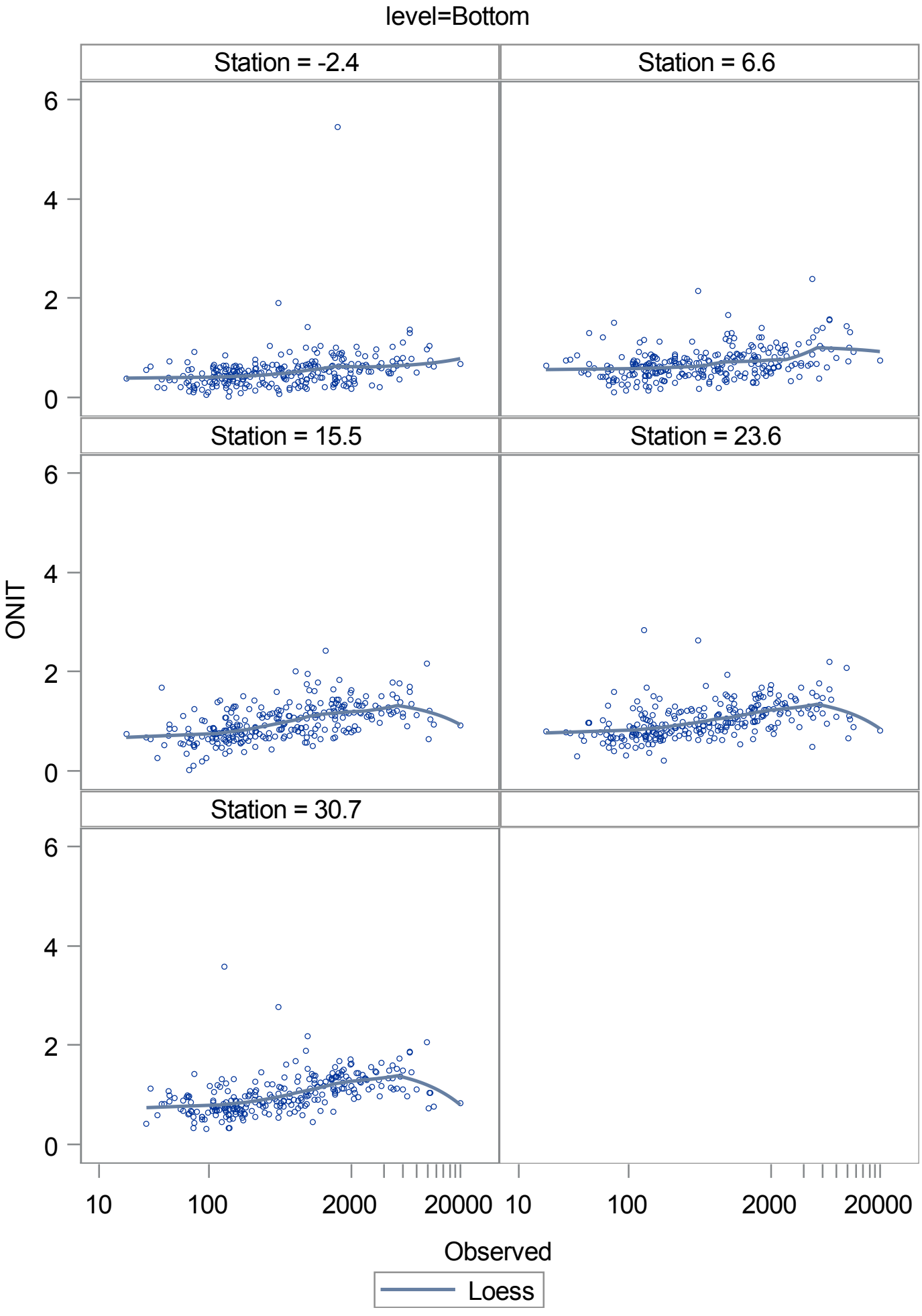

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
DOC
0
10
20
30
40
10
100
2000
20000
Observed
Loess

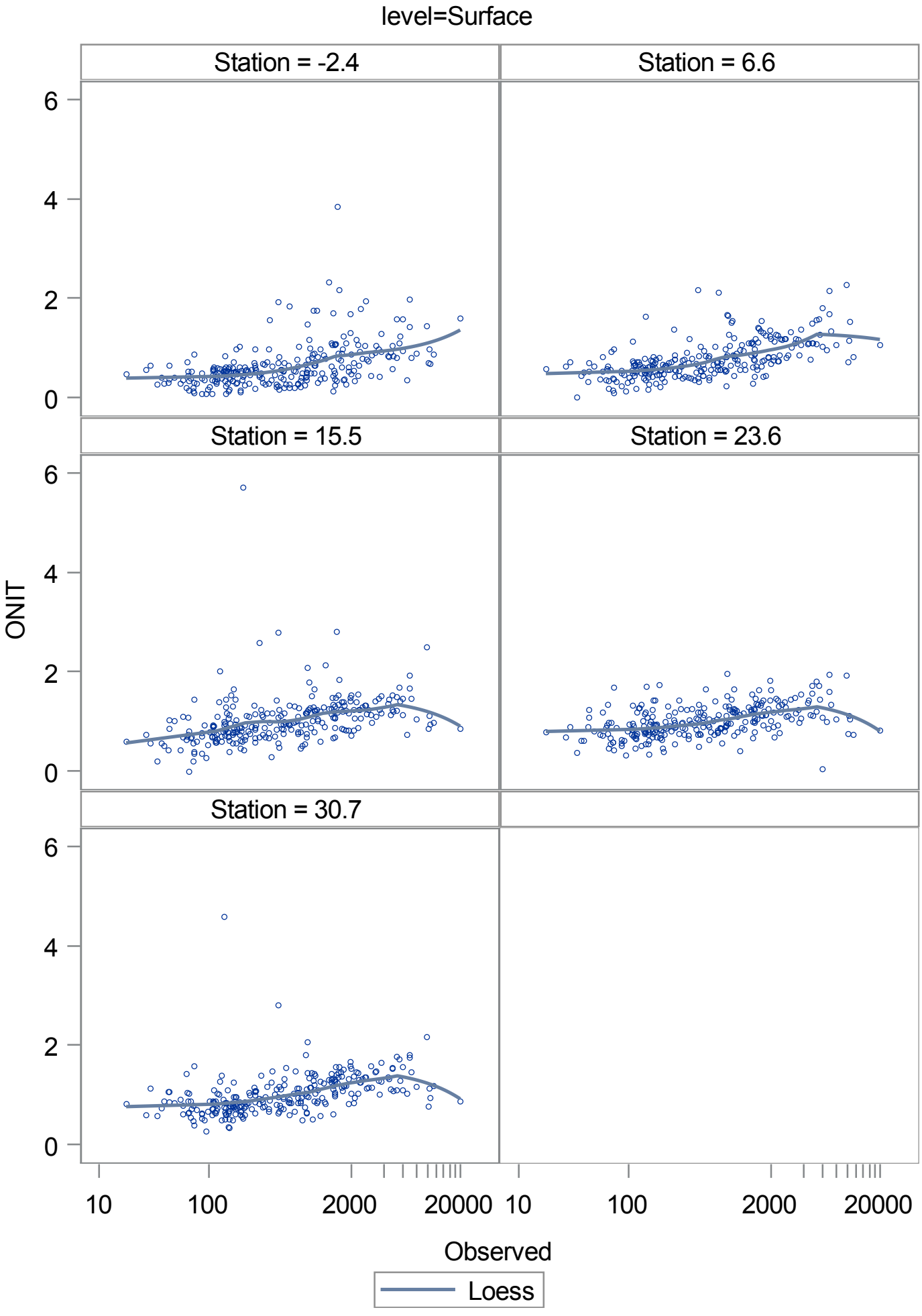

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
N23
0
1
2
3
4
10
100
2000
20000
Observed
Loess

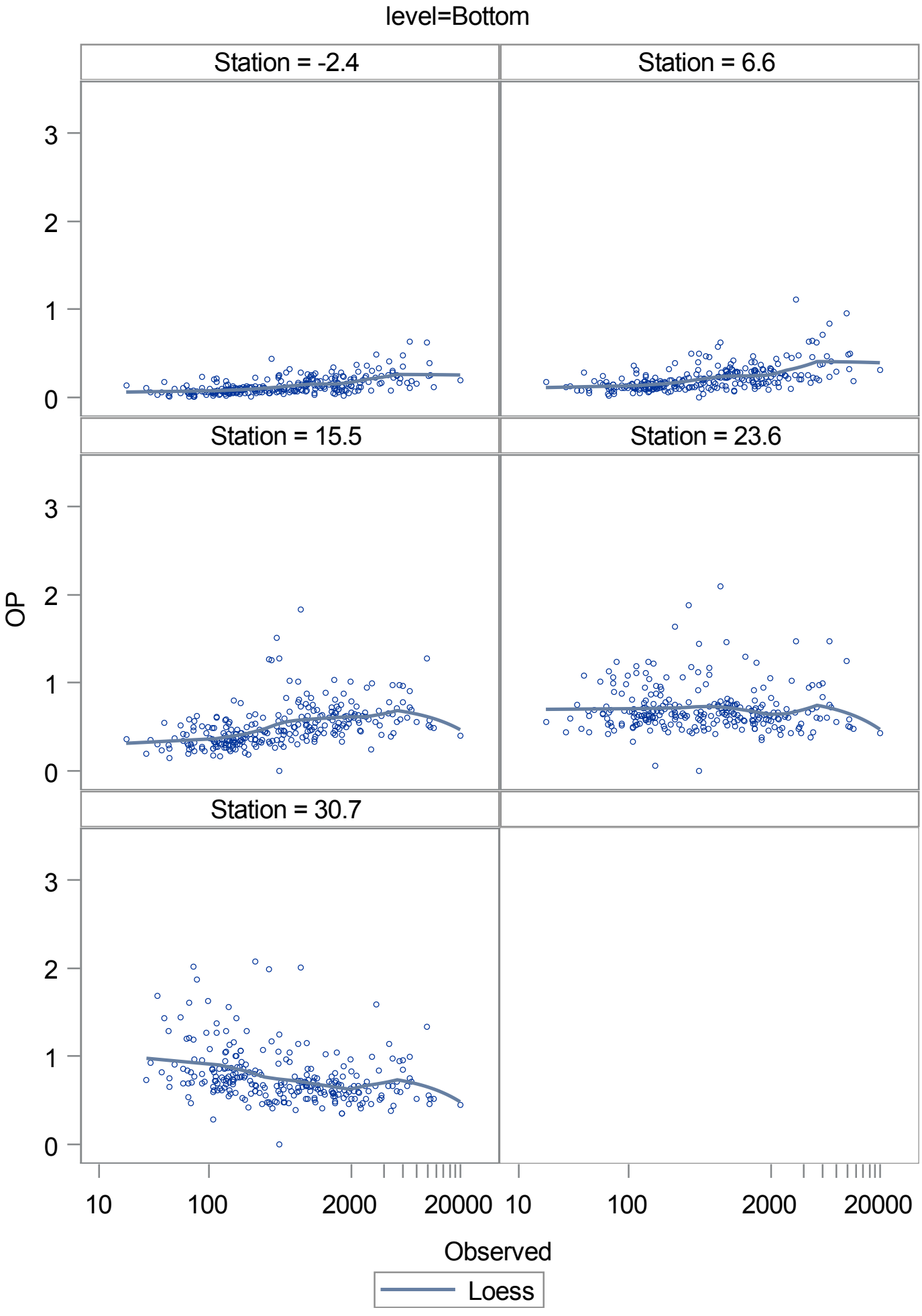

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
N23
0
1
2
3
4
10
100
2000
20000
Observed
Loess

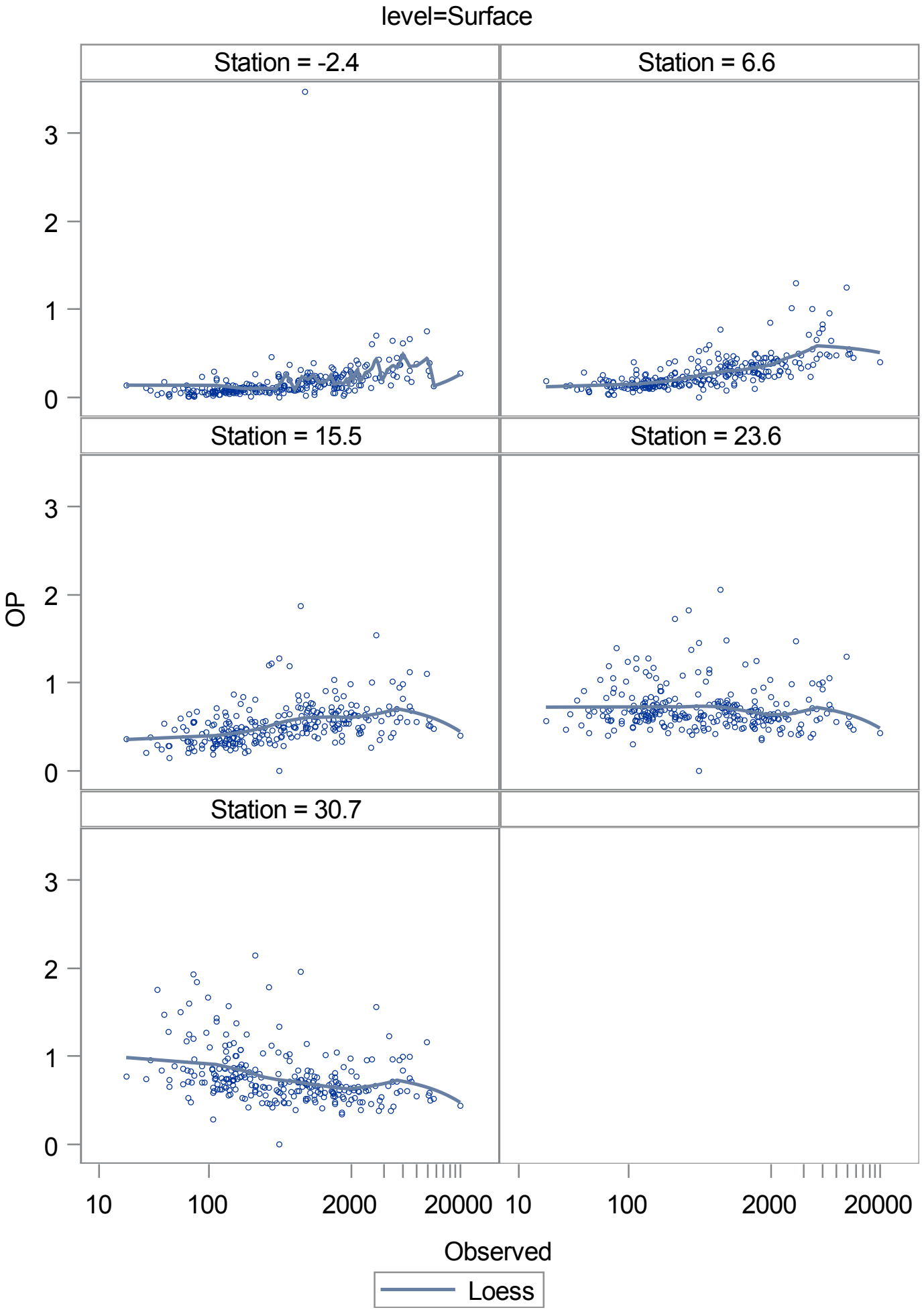

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
NH34
1.5
1.0
0.5
0.0
10
100
2000
20000
Observed
Loess

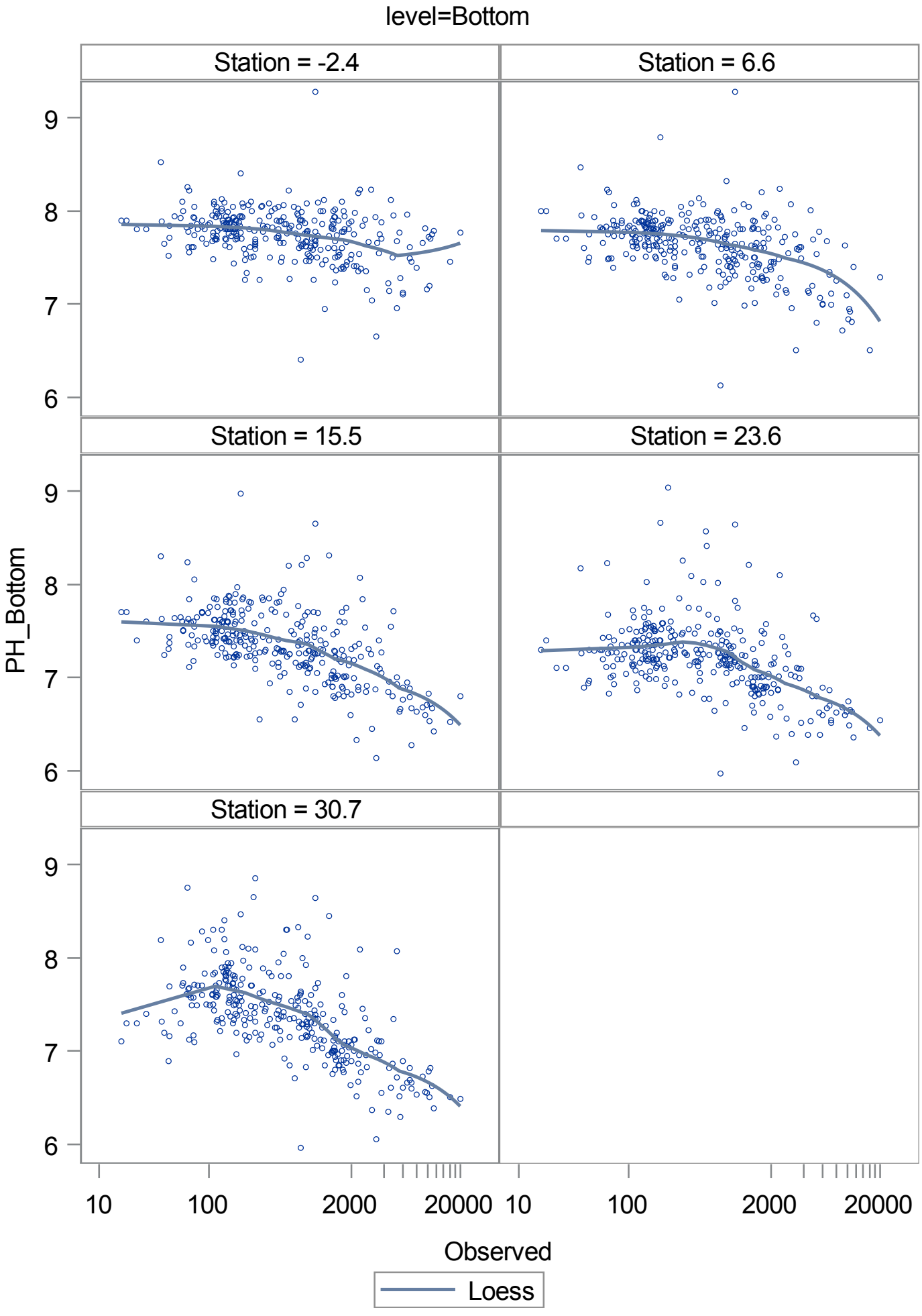

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
NH34
1.5
1.0
0.5
0.0
10
100
2000
20000
Observed
Loess

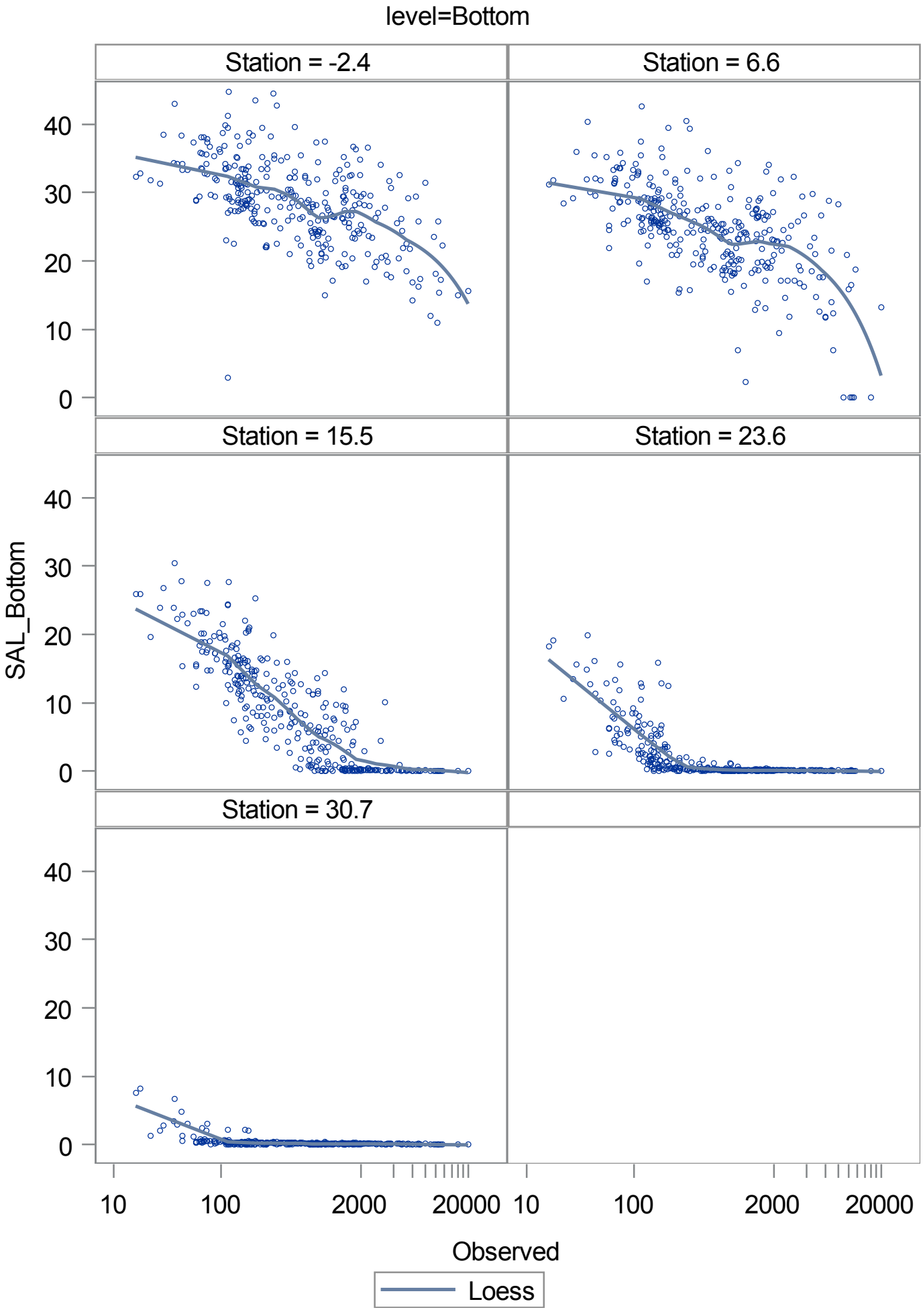

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
ONIT
0
2
4
6
10
100
2000
20000
Observed
Loess

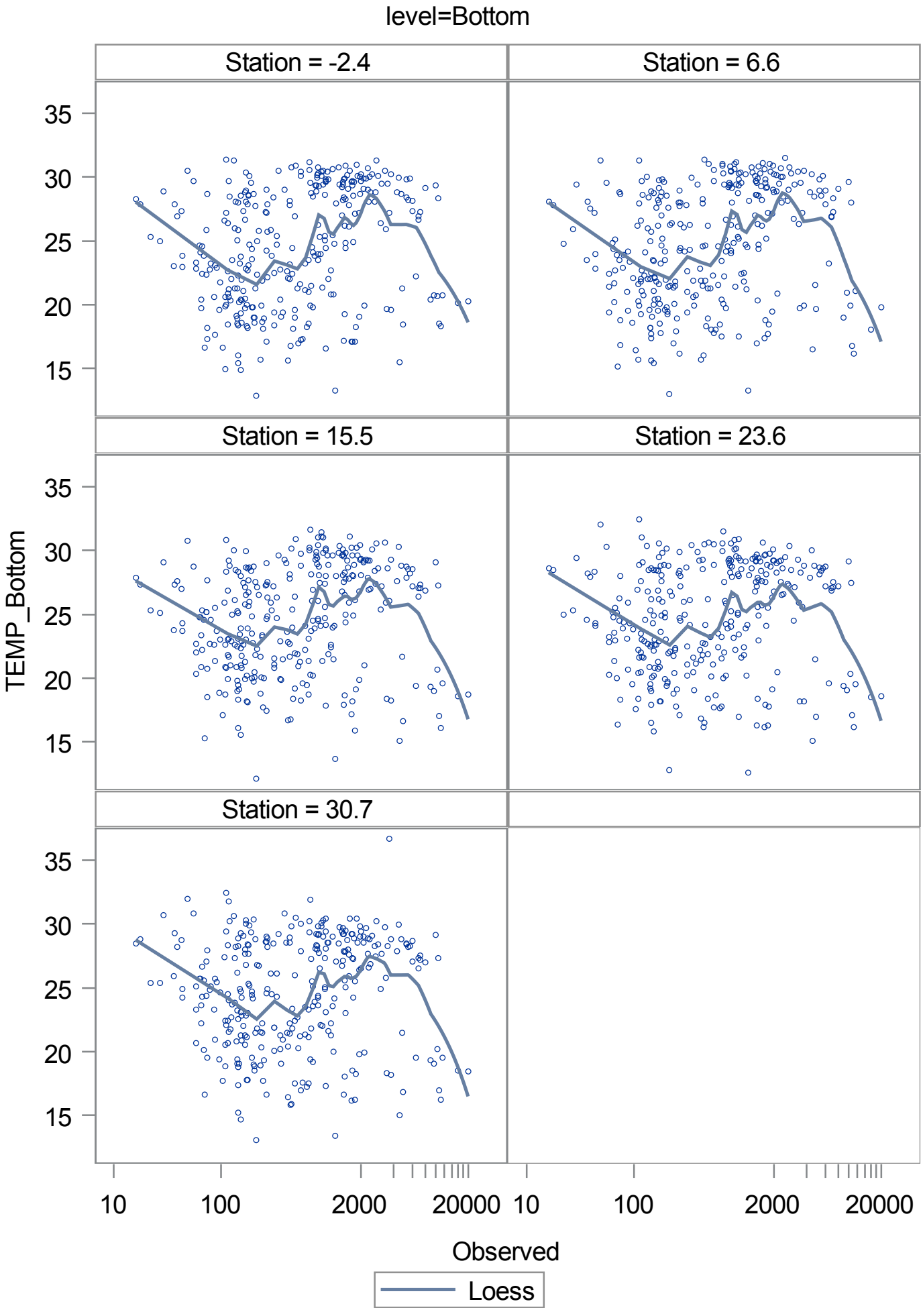

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
ONIT
0
2
4
6
10
100
2000
20000
Observed
Loess

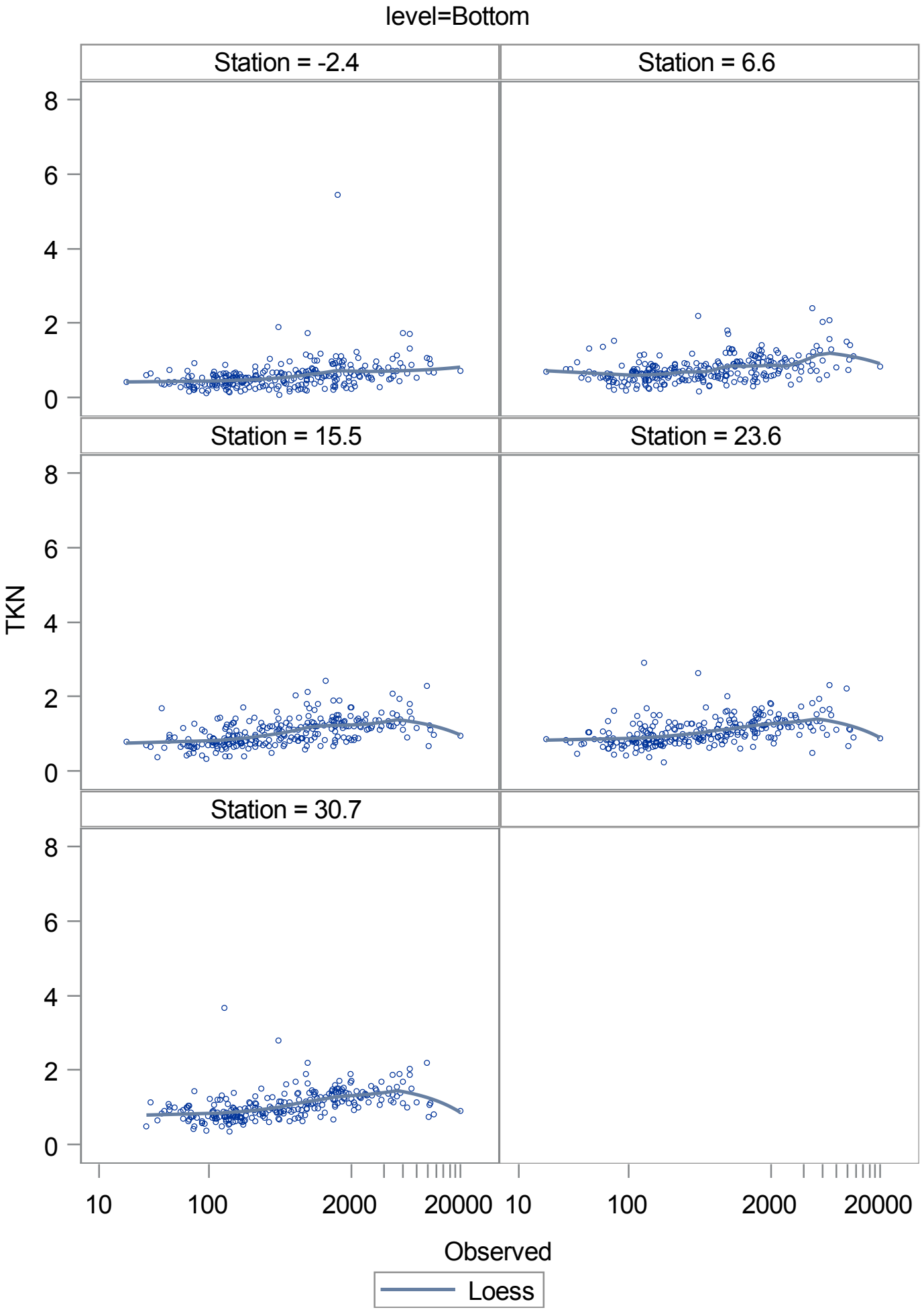

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
OP
0
1
2
3
10
100
2000
20000
Observed
Loess

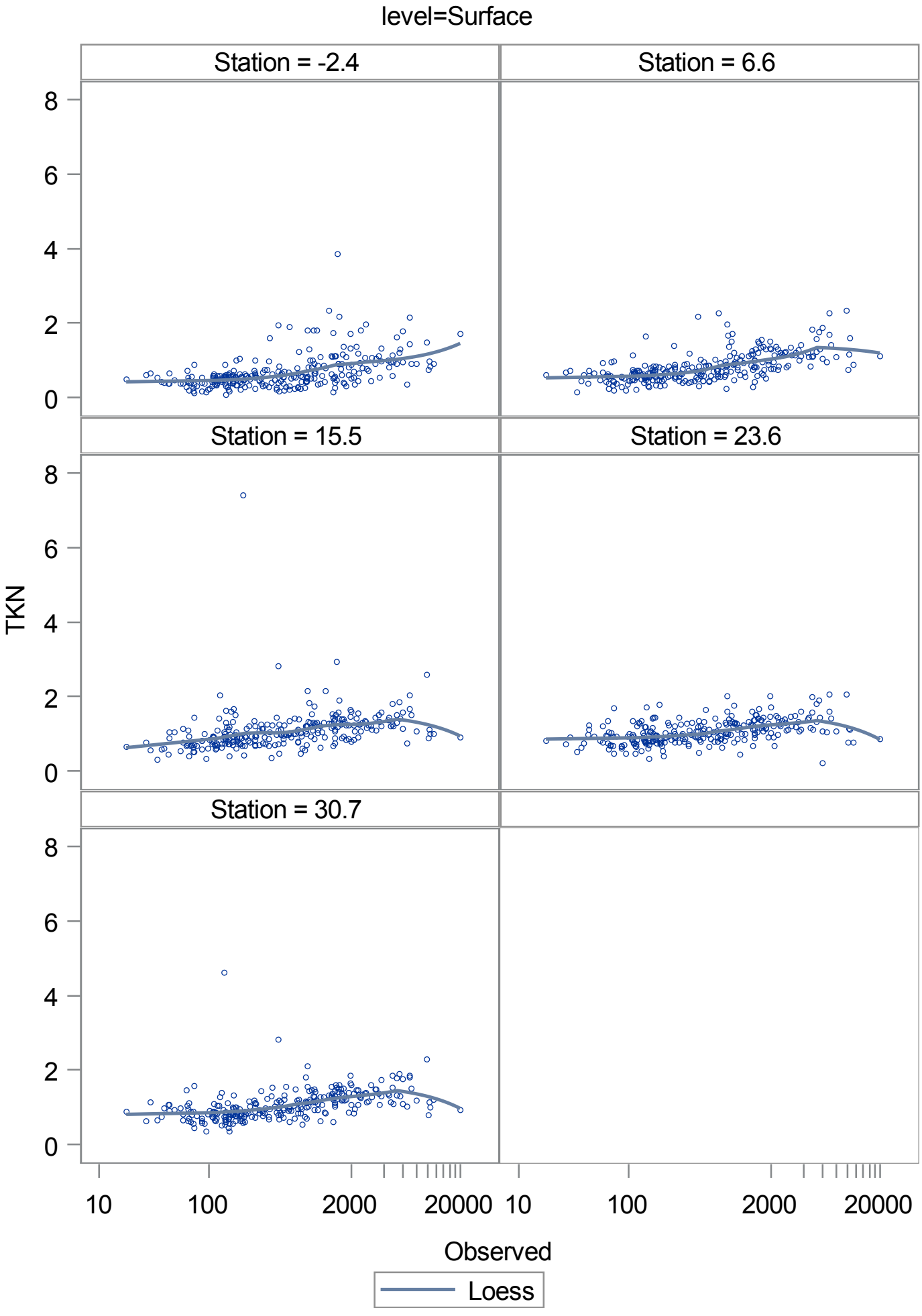

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
OP
0
1
2
3
10
100
2000
20000
Observed
Loess

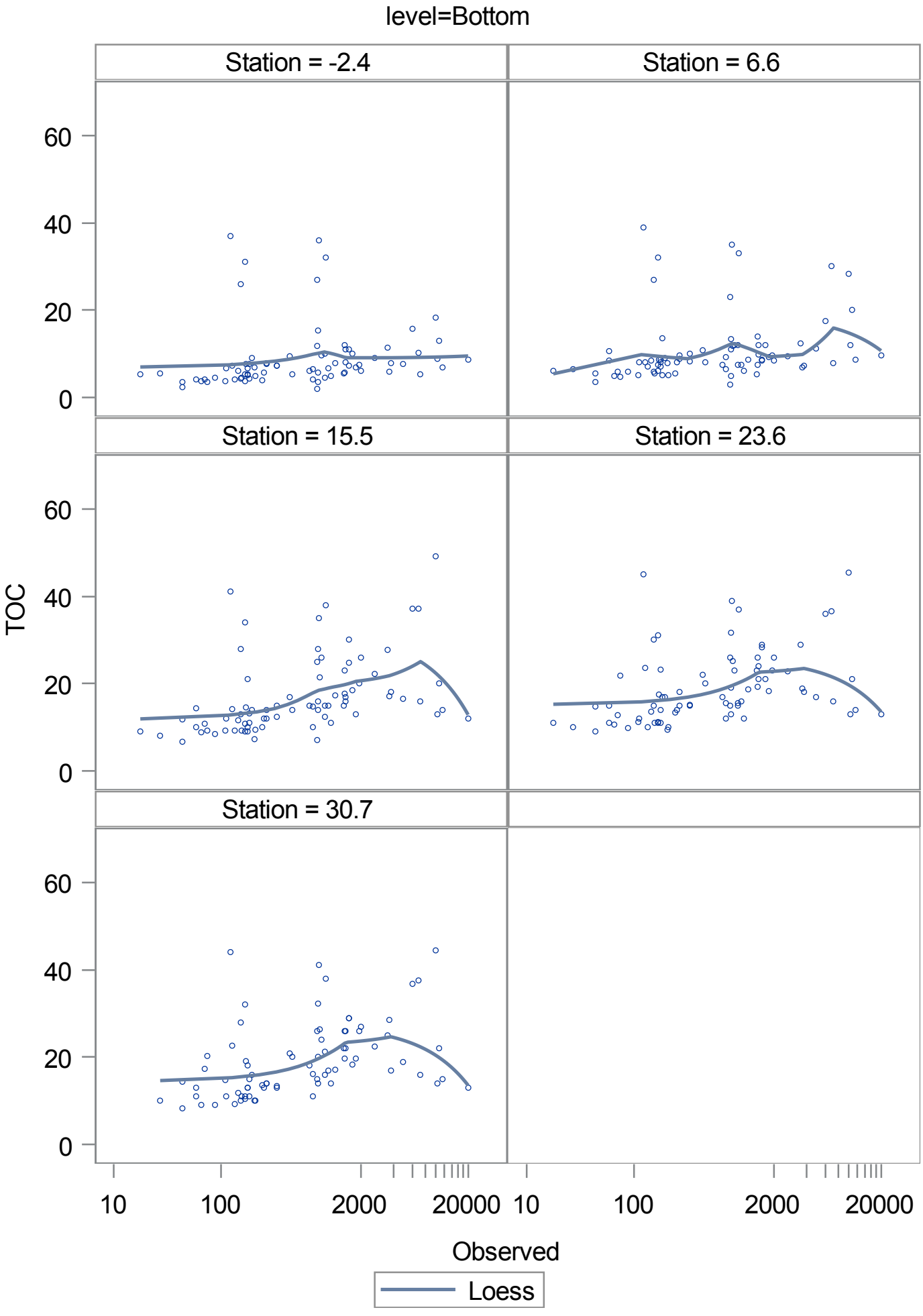

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
PH_Bottom
9
8
7
6
10
100
2000
20000
Observed
Loess

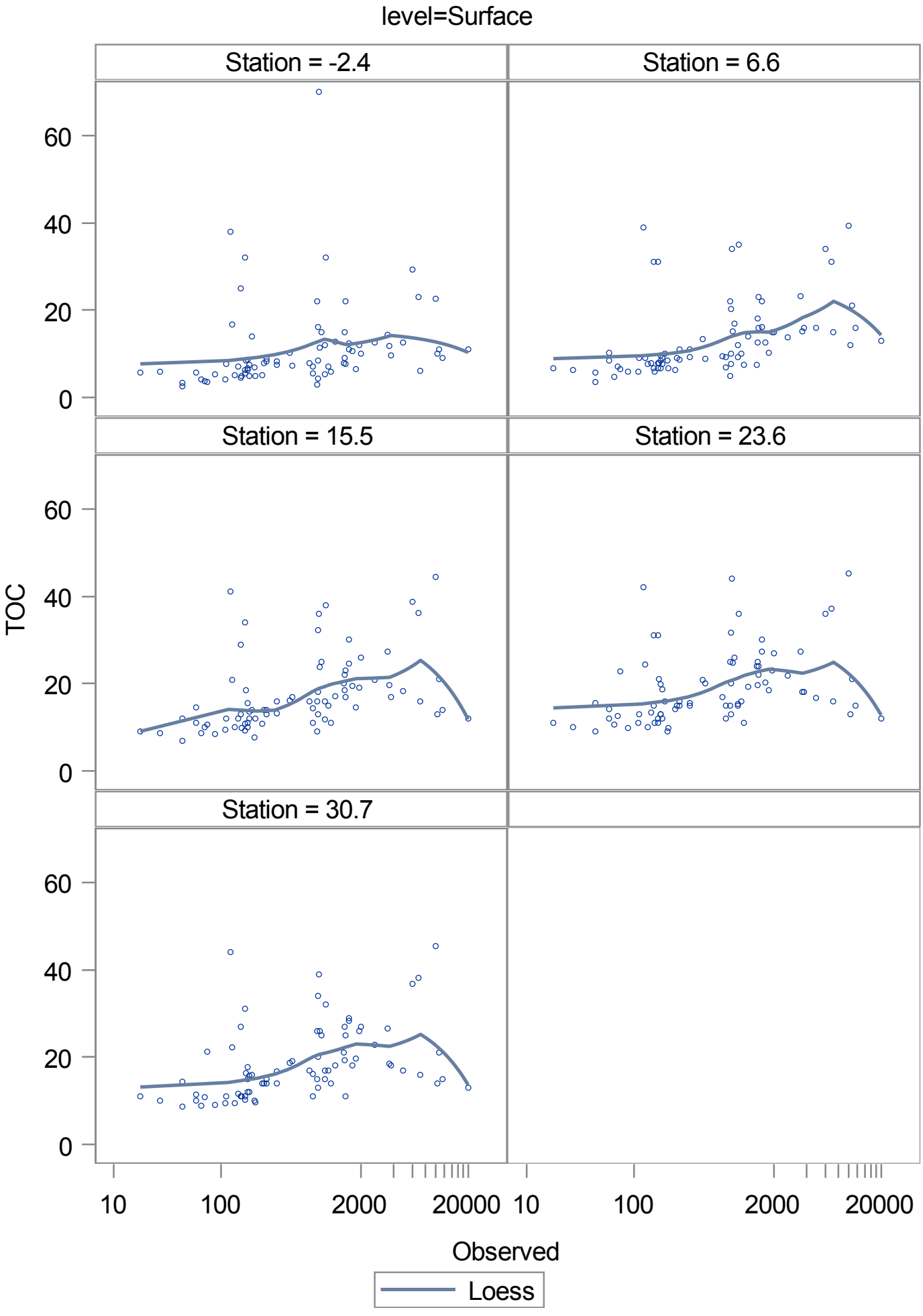

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
SAL_Bottom
0
10
20
30
40
10
100
2000
20000
Observed
Loess

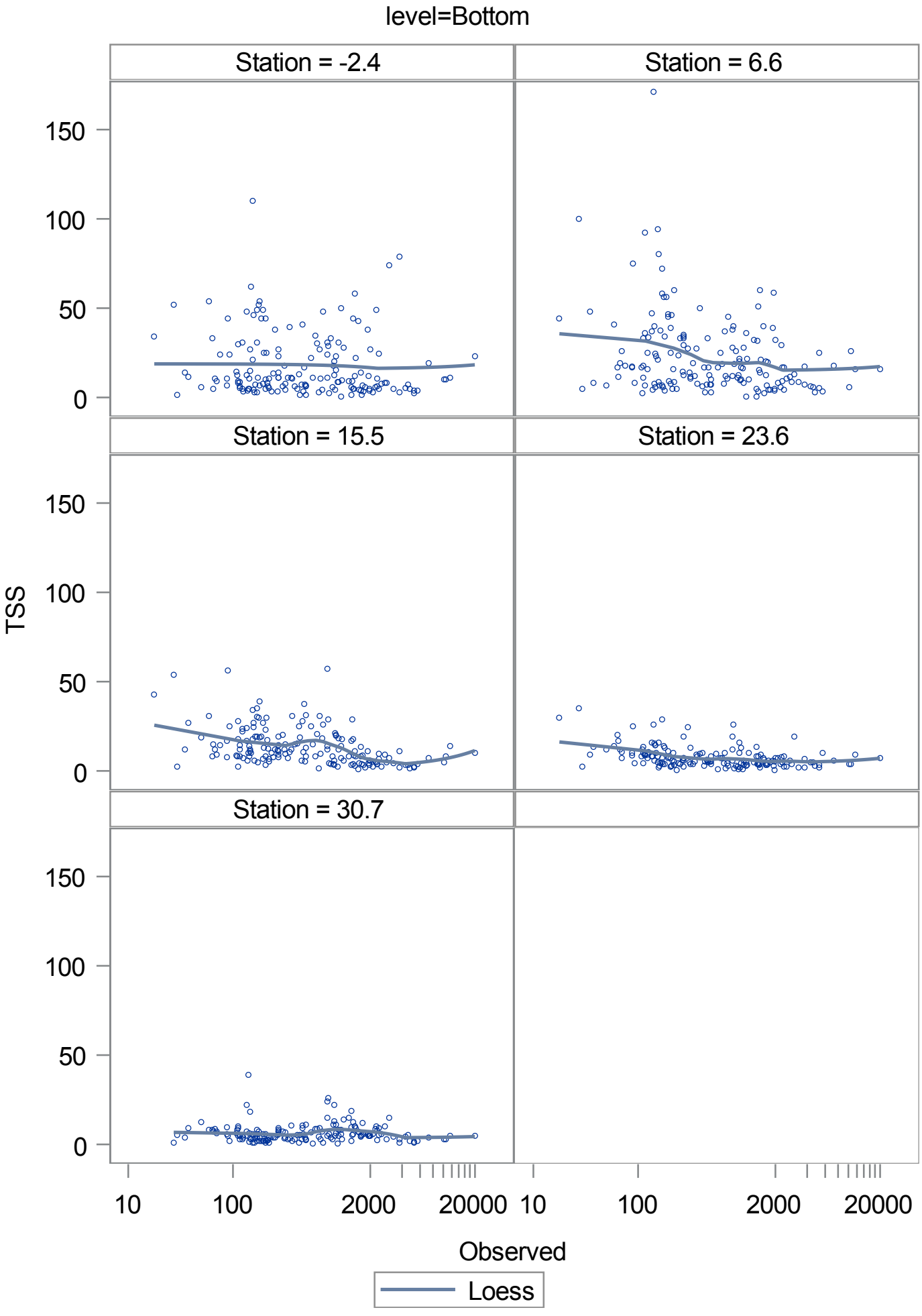

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TEMP_Bottom
35
30
25
20
15
10
100
2000
20000
Observed
Loess

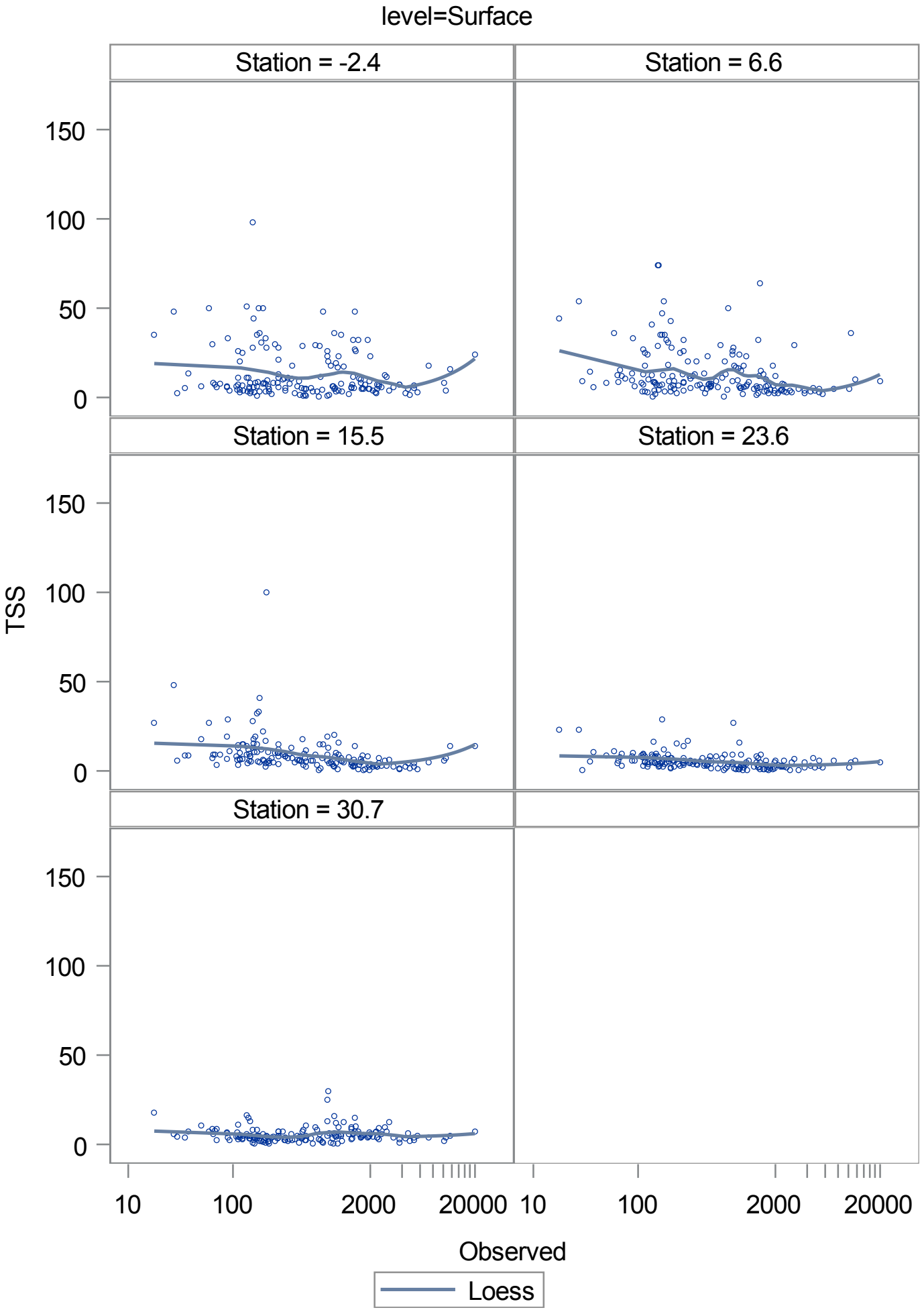

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TKN
0
2
4
6
8
10
100
2000
20000
Observed
Loess

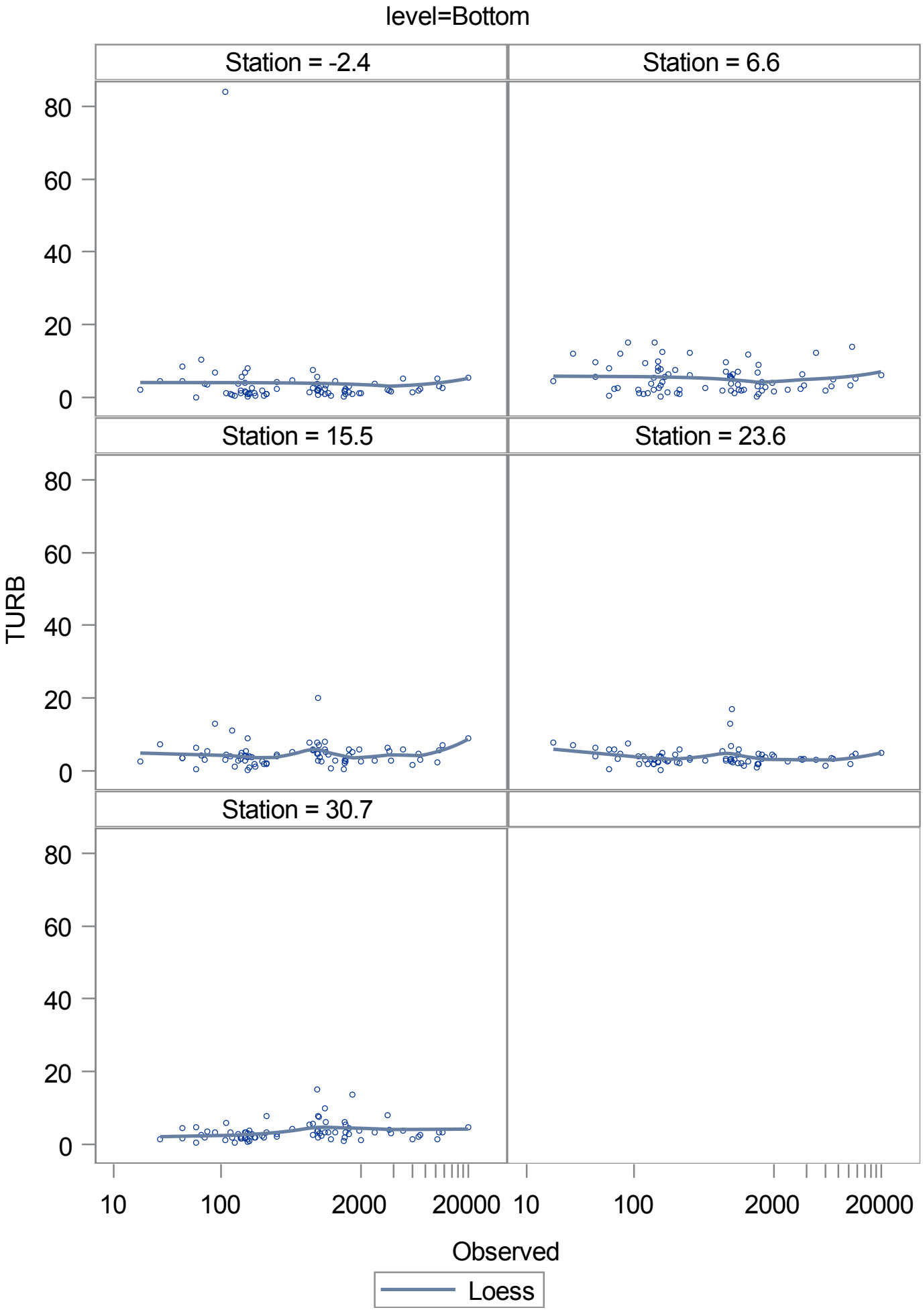

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TKN
0
2
4
6
8
10
100
2000
20000
Observed
Loess

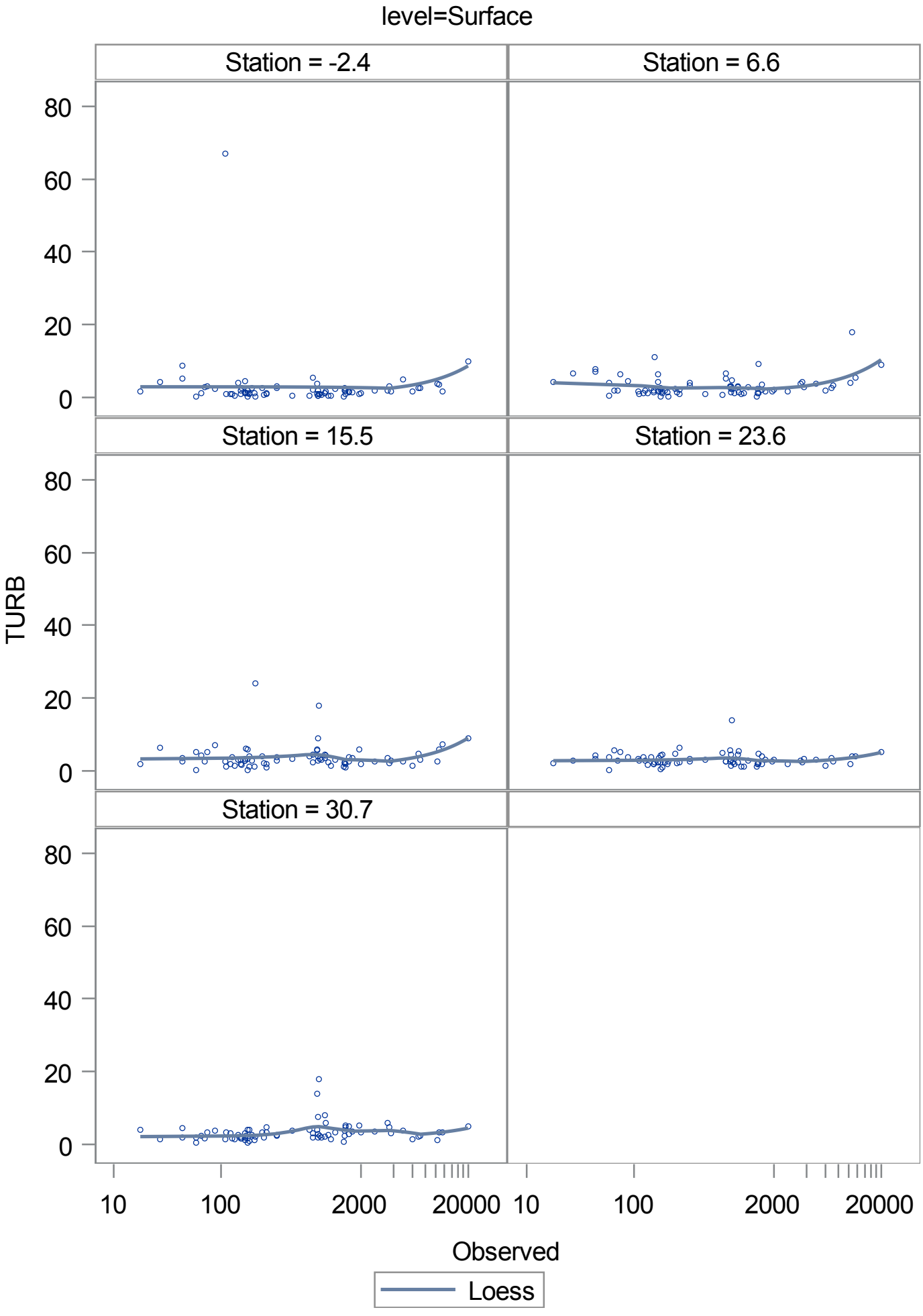

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TOC
0
20
40
60
10
100
2000
20000
Observed
Loess

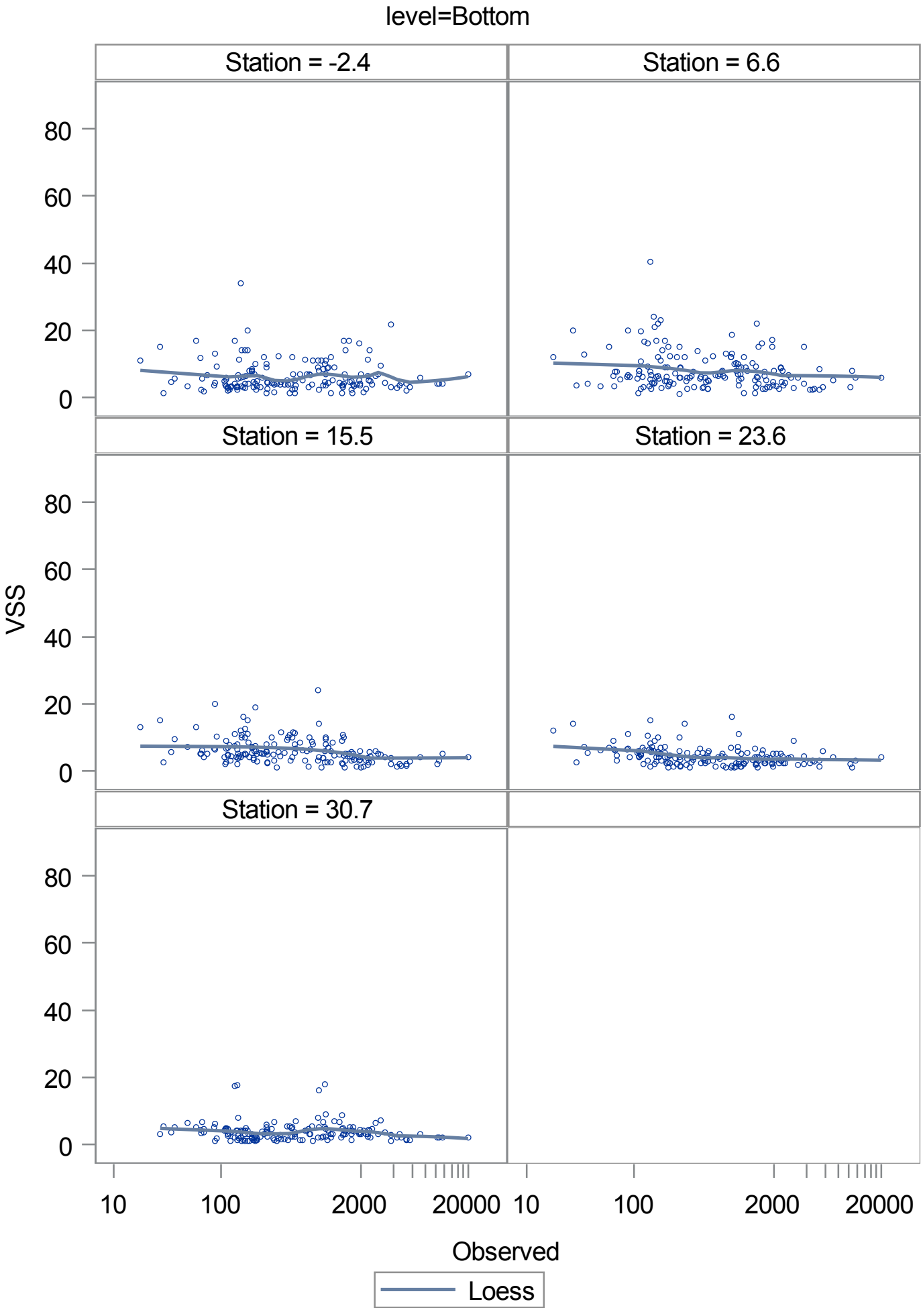

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TOC
0
20
40
60
10
100
2000
20000
Observed
Loess

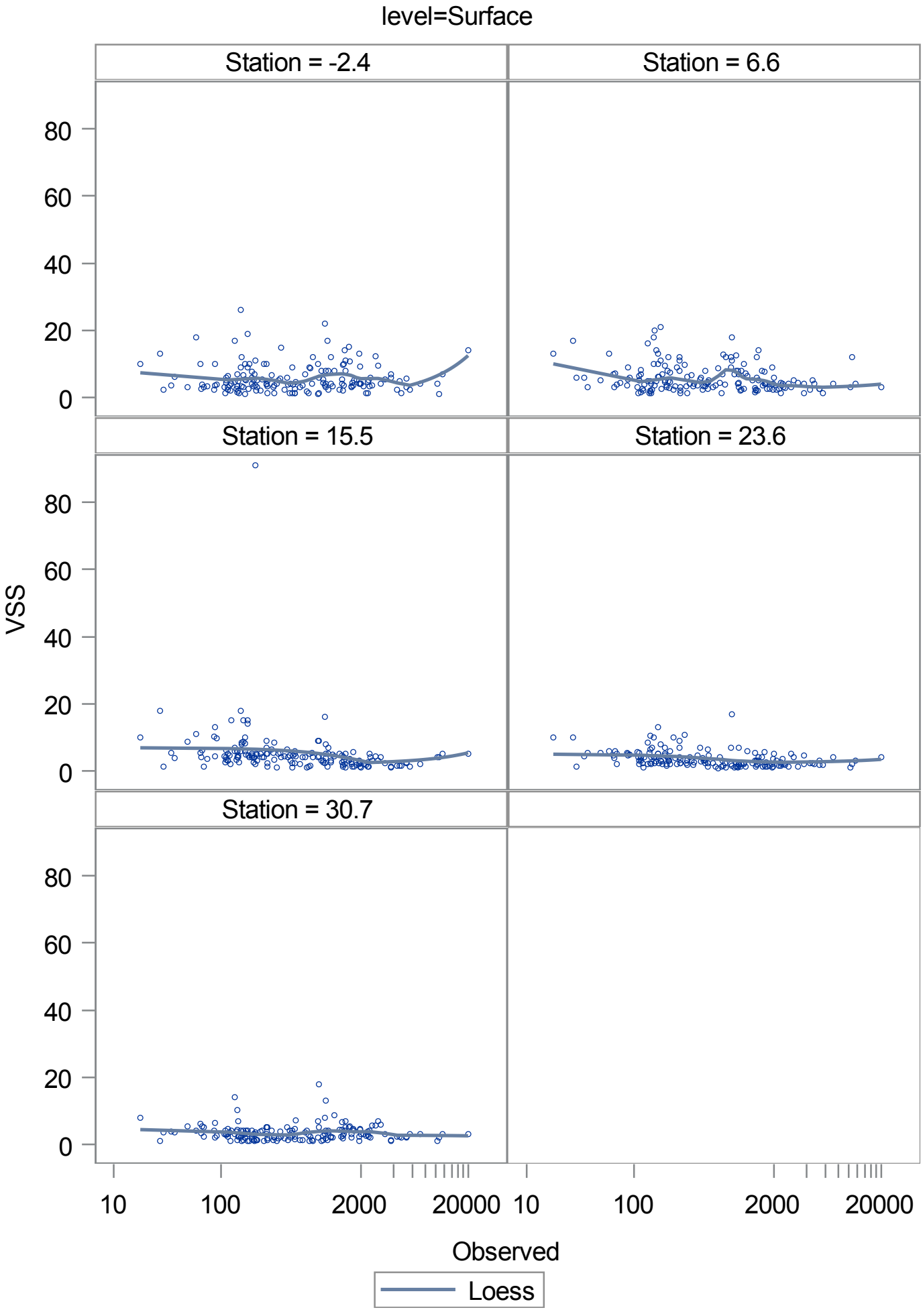

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TSS
150
100
50
0
10
100
2000
20000
Observed
Loess

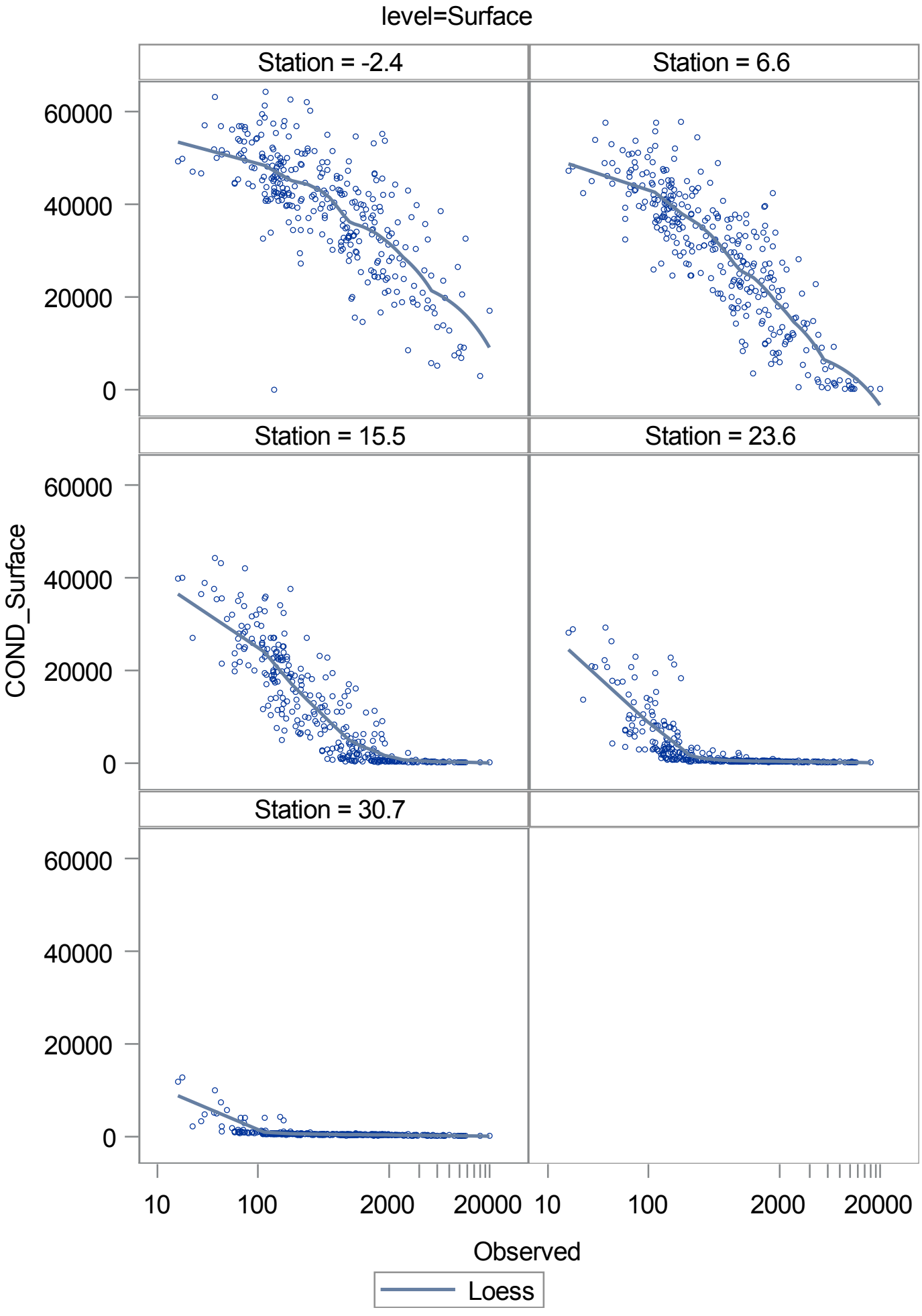

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TSS
150
100
50
0
10
100
2000
20000
Observed
Loess

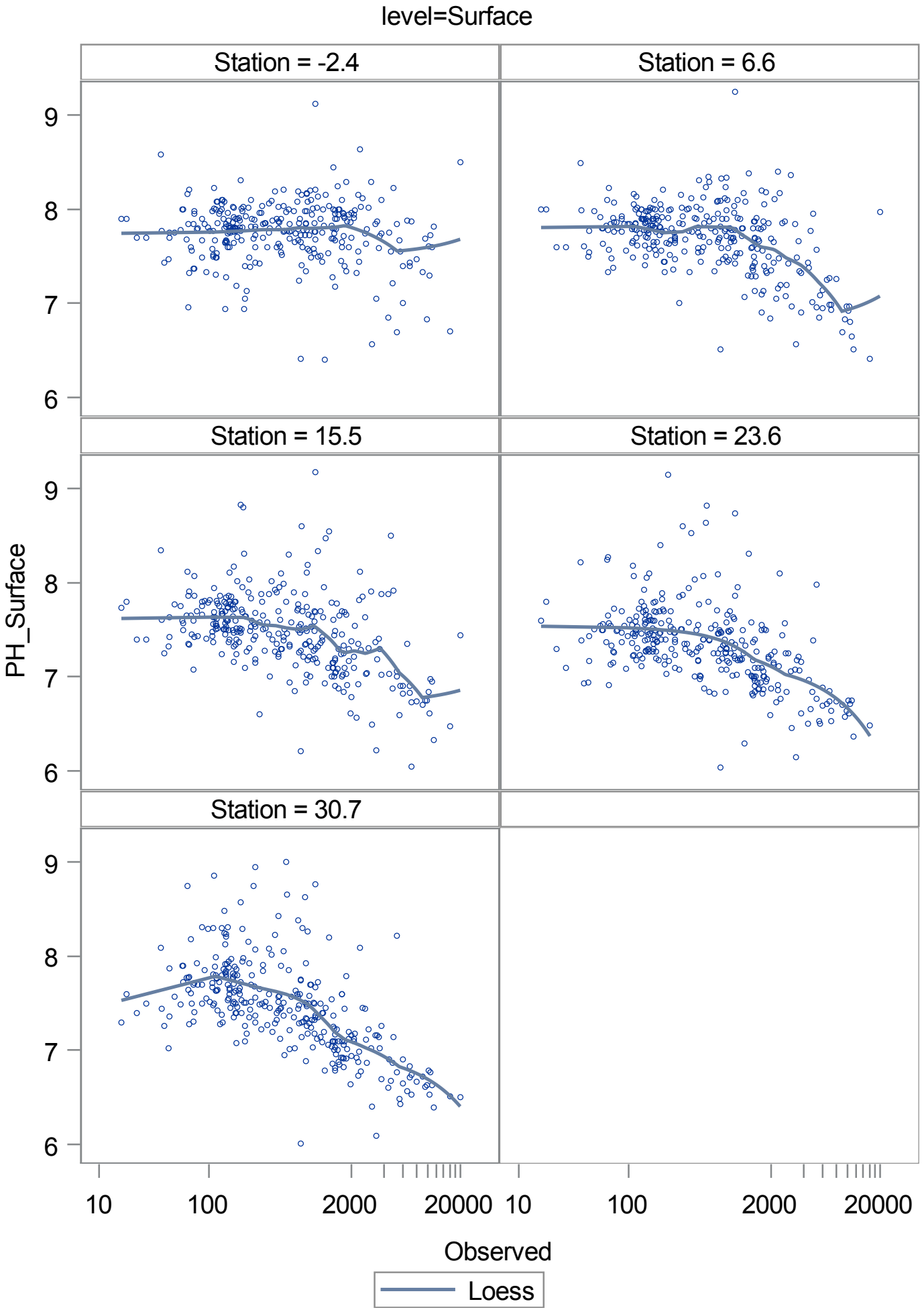

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TURB
0
20
40
60
80
10
100
2000
20000
Observed
Loess

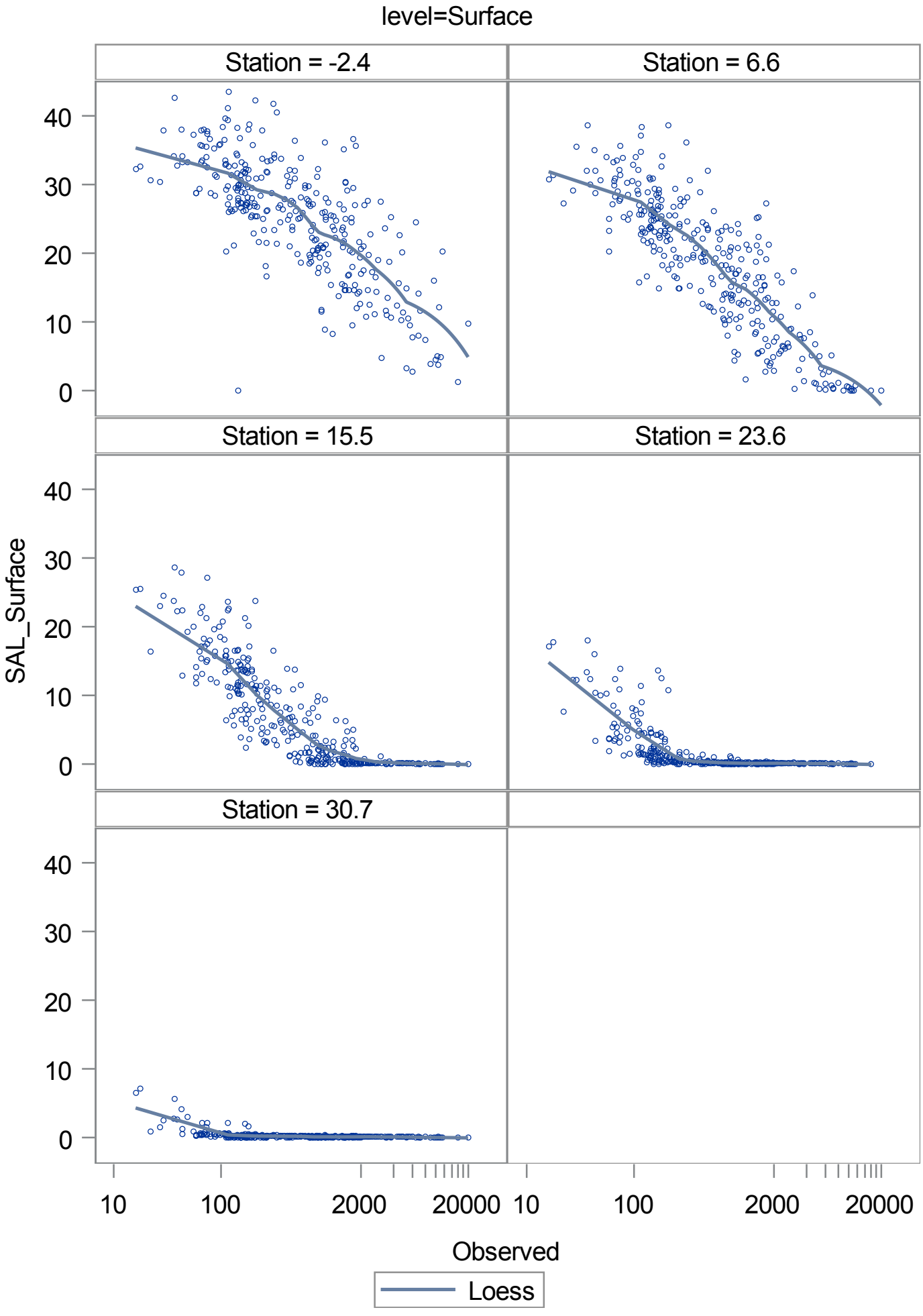

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TURB
0
20
40
60
80
10
100
2000
20000
Observed
Loess

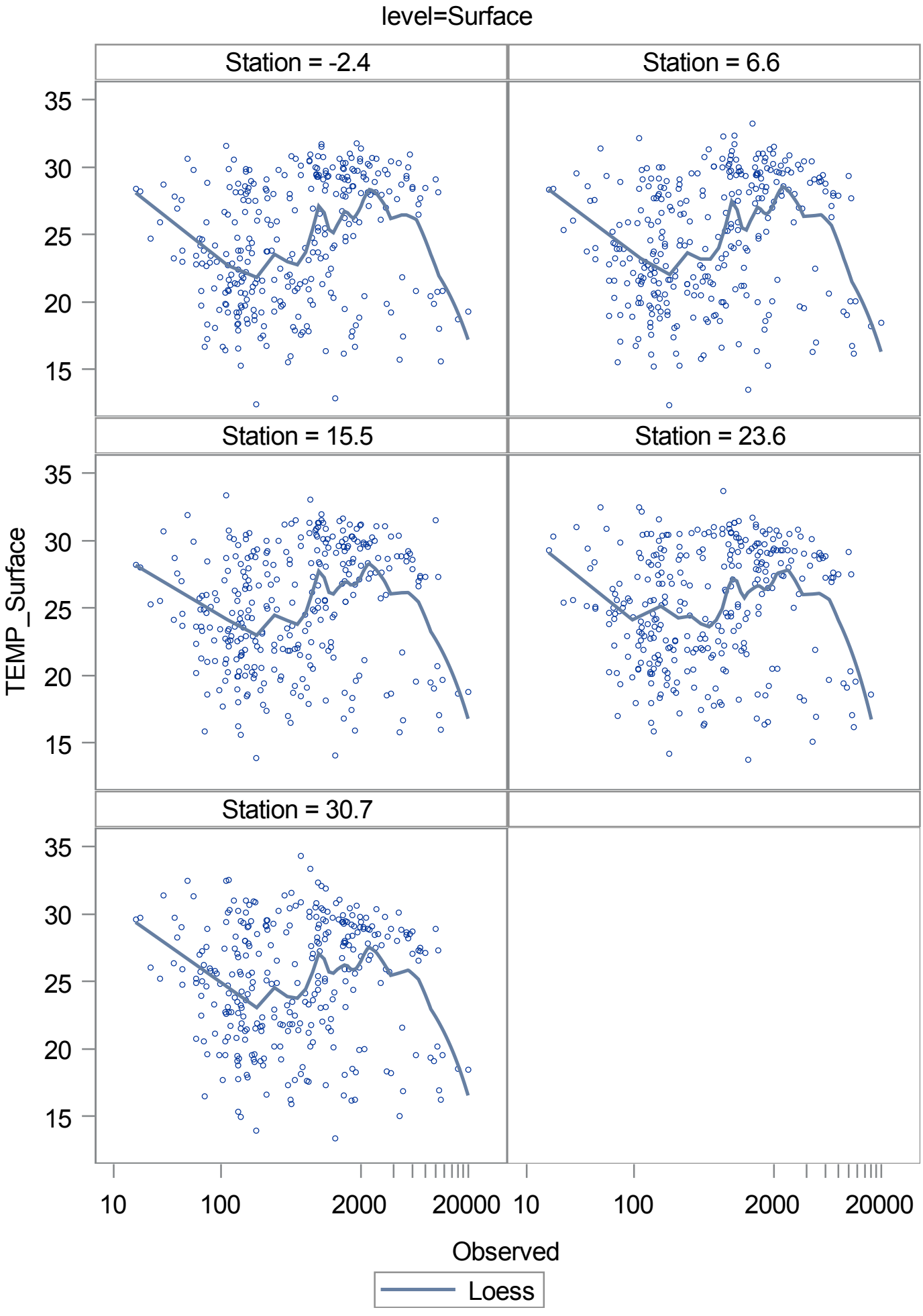

level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
VSS
0
20
40
60
80
10
100
2000
20000
Observed
Loess

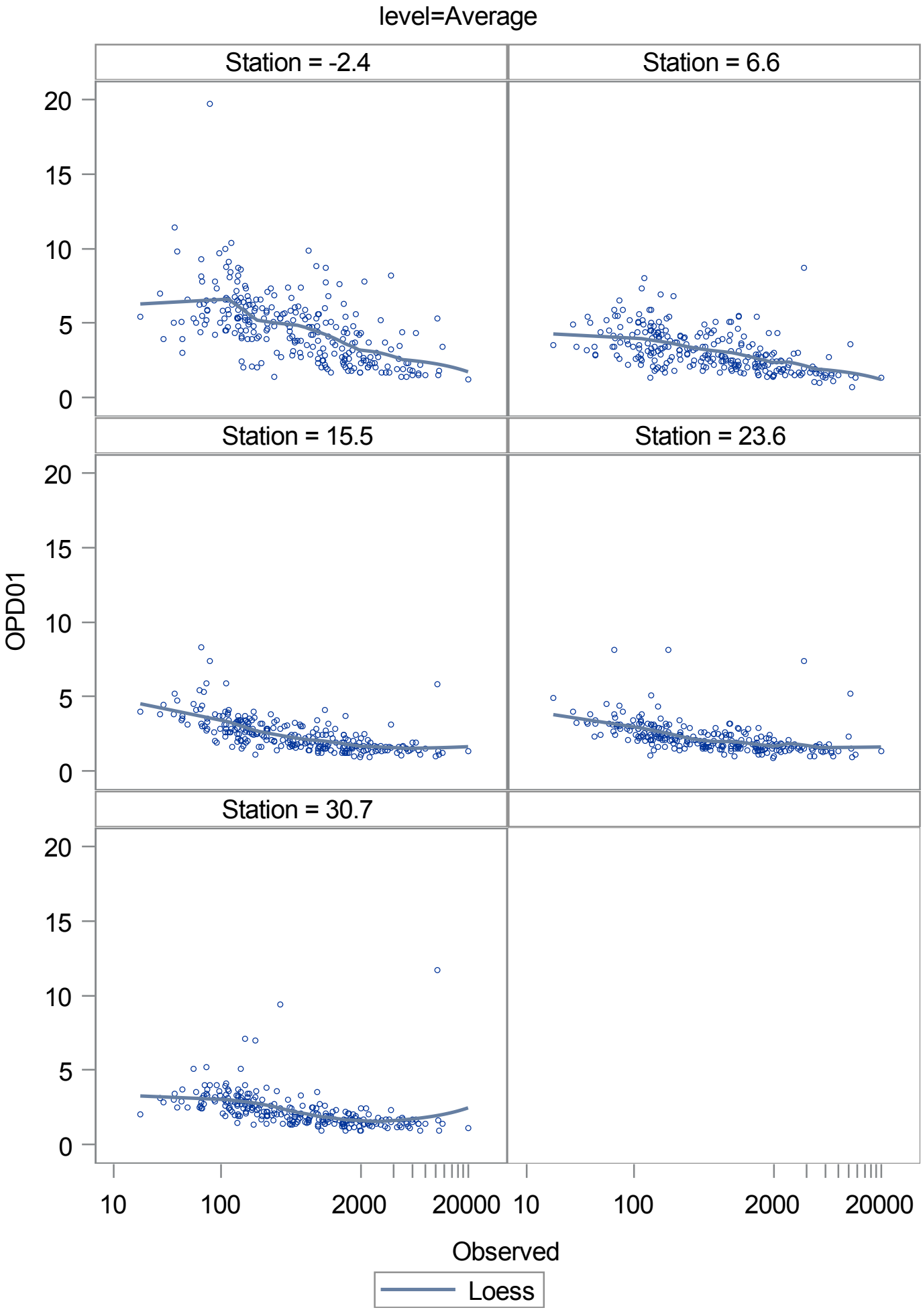

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
VSS
0
20
40
60
80
10
100
2000
20000
Observed
Loess

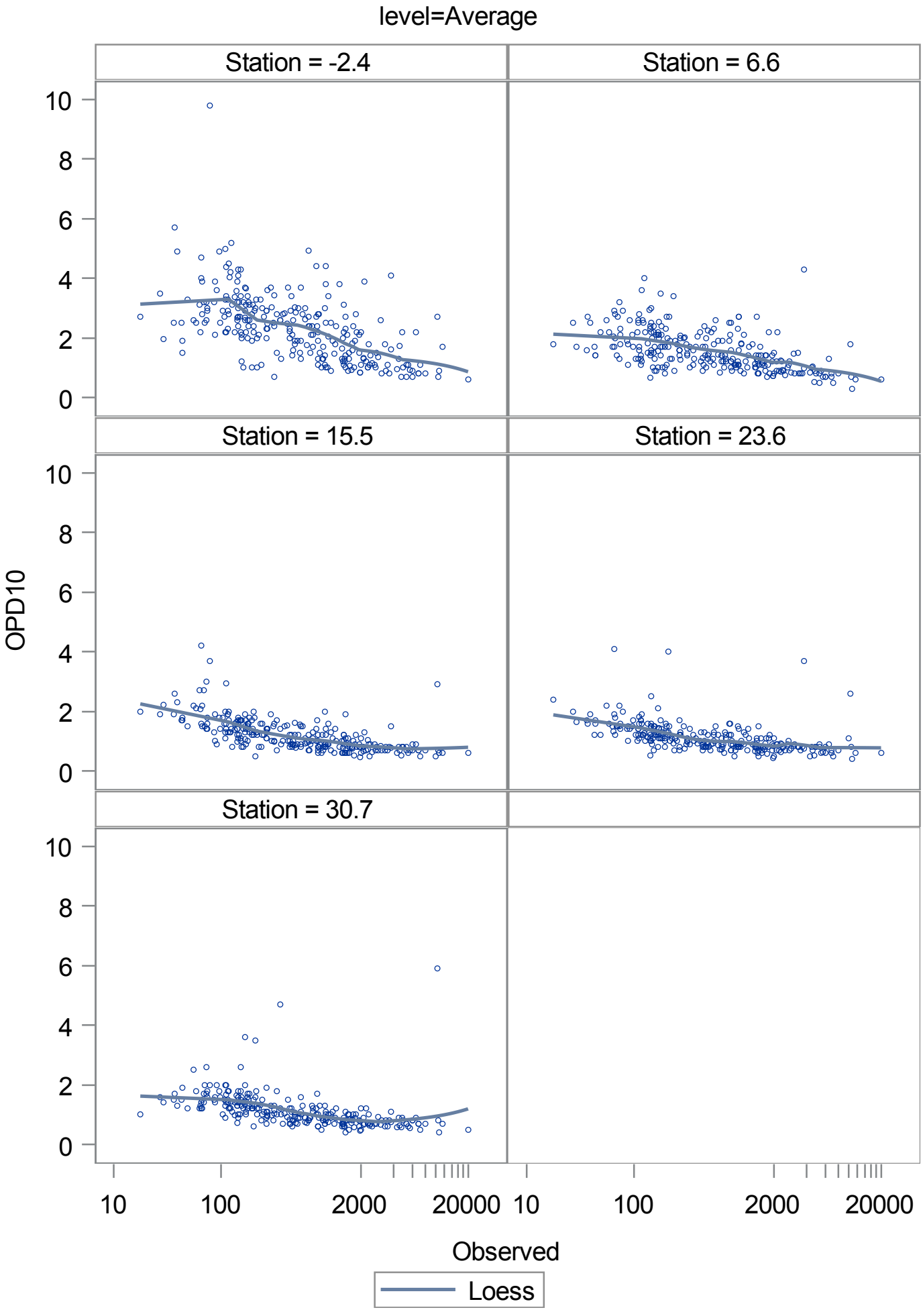

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
COND_Surface
60000
40000
20000
0
10
100
2000
20000
Observed
Loess

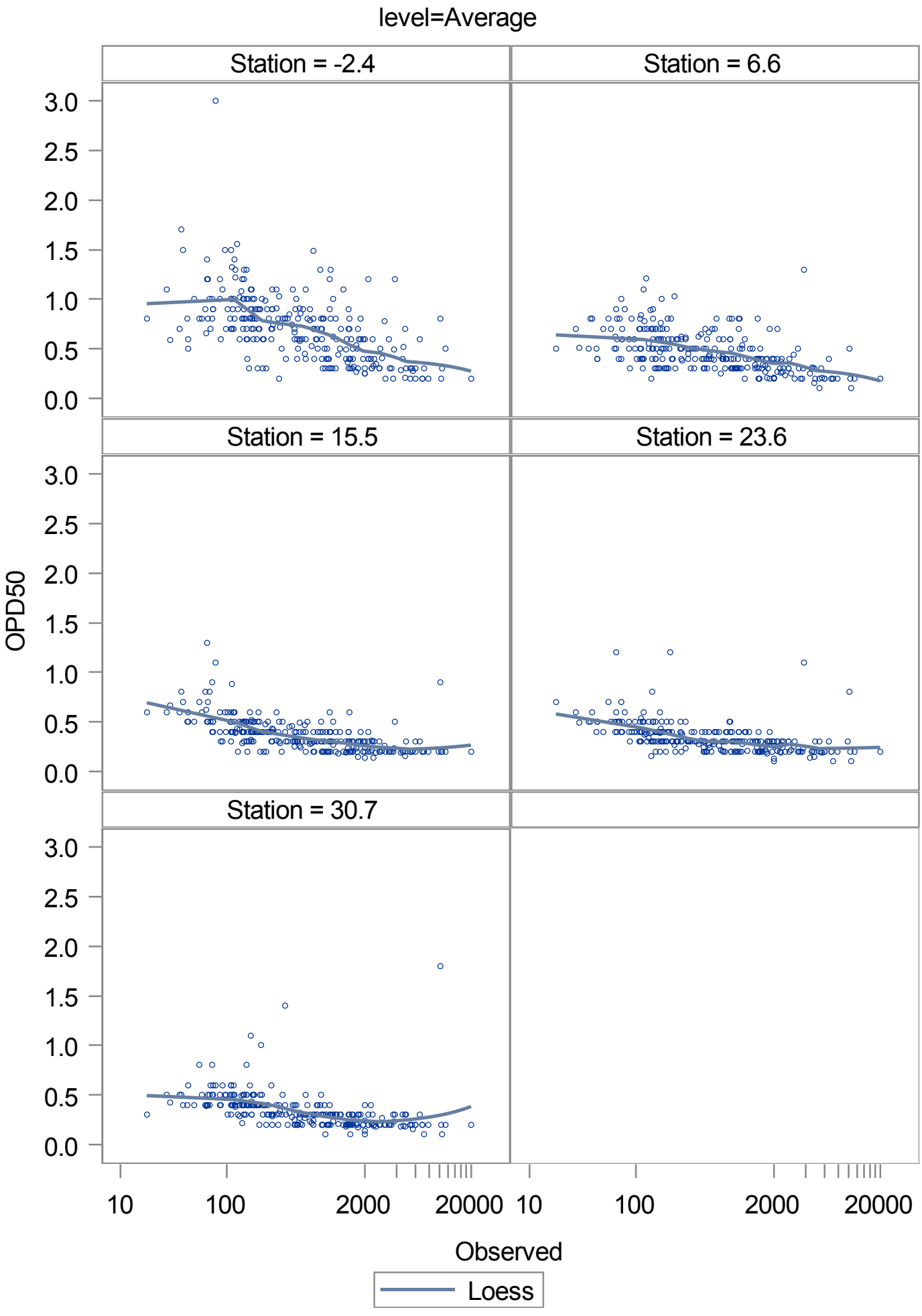

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
PH_Surface
9
8
7
6
10
100
2000
20000
Observed
Loess

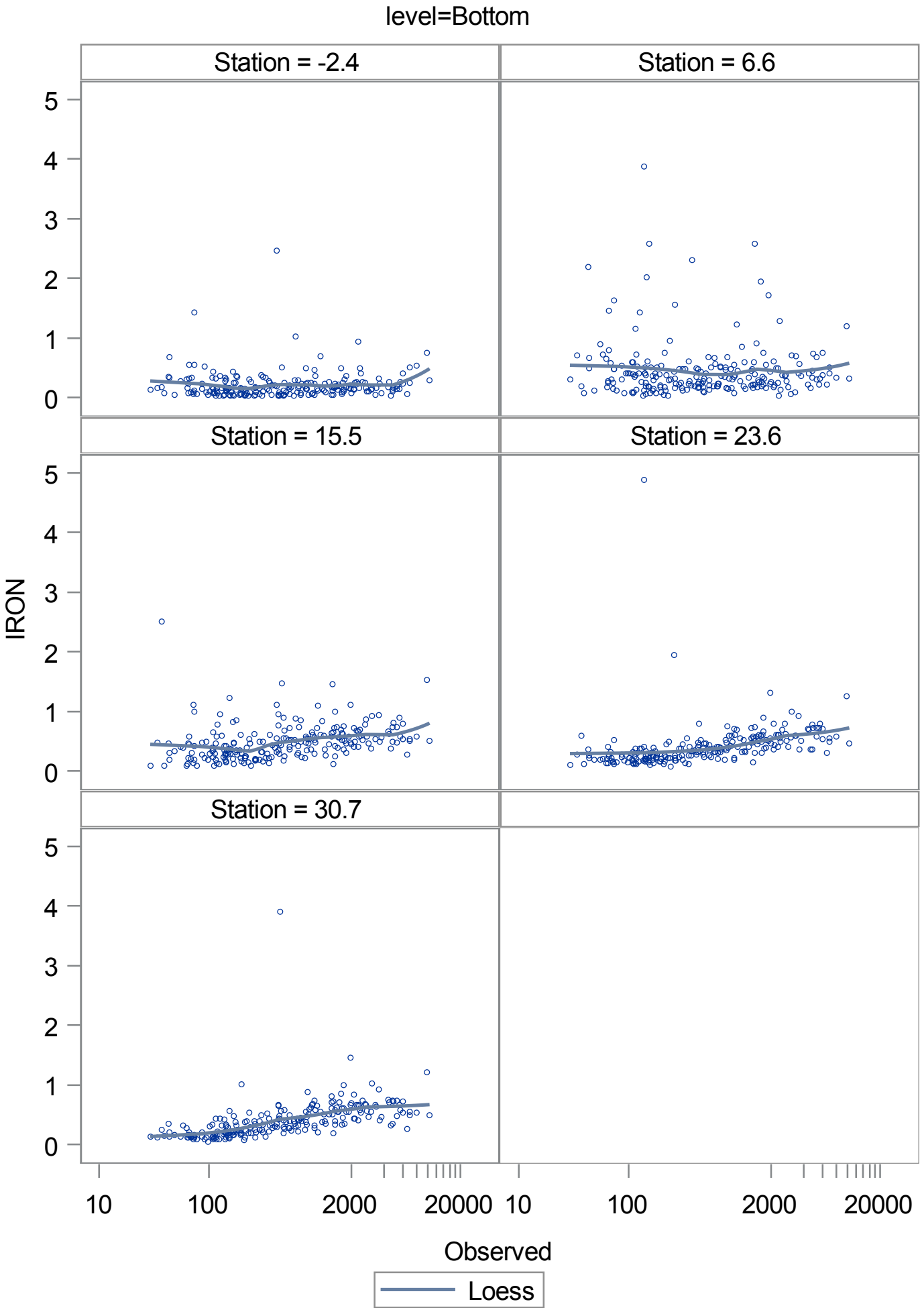

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
SAL_Surface
0
10
20
30
40
10
100
2000
20000
Observed
Loess

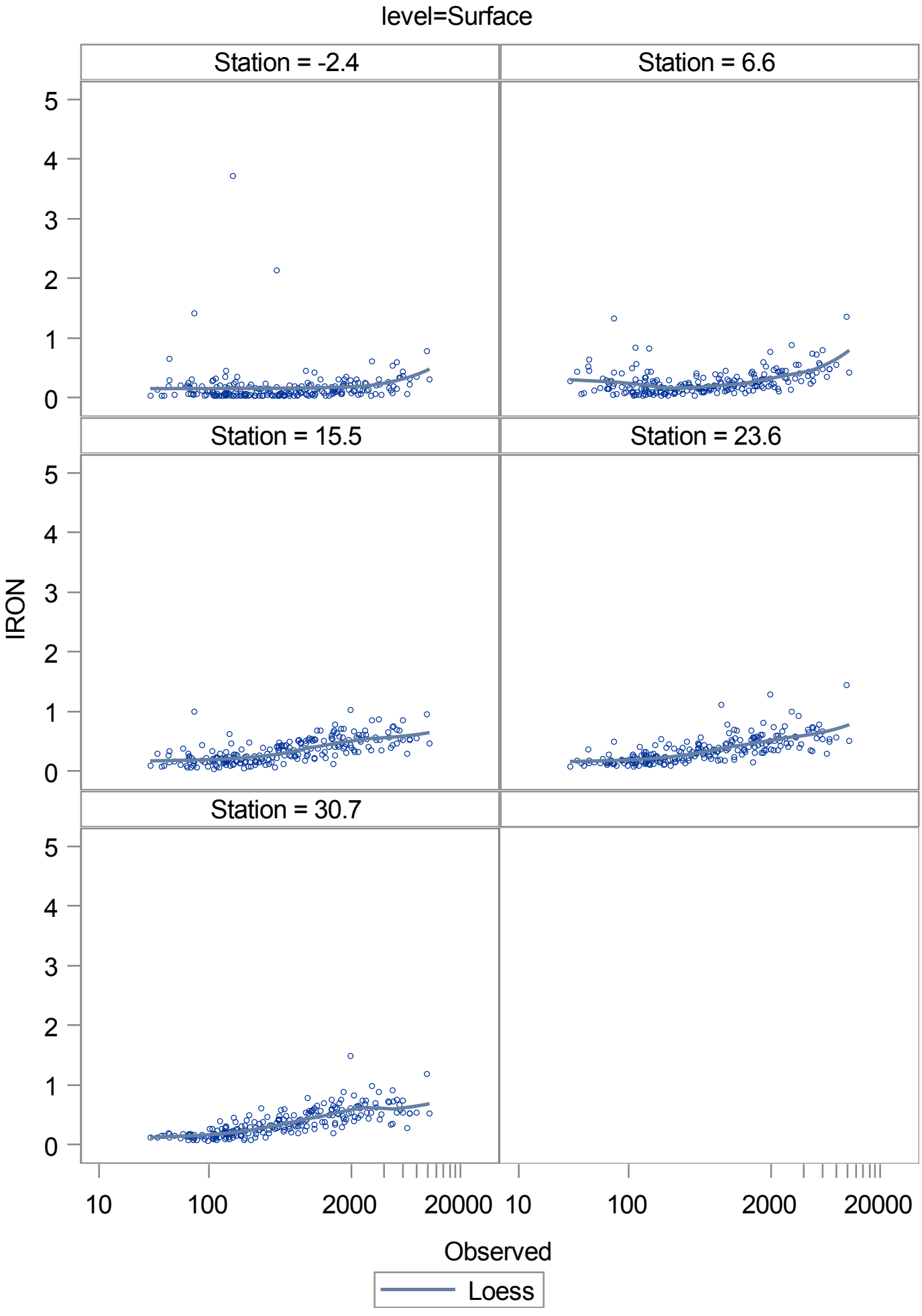

level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
TEMP_Surface
35
30
25
20
15
10
100
2000
20000
Observed
Loess


level=Average
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
OPD01
20
15
10
5
0
10
100
2000
20000
Observed
Loess


level=Average
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
OPD10
0
2
4
6
8
10
10
100
2000
20000
Observed
Loess


level=Average
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
OPD50
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10
100
2000
20000
Observed
Loess


level=Bottom
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
IRON
0
1
2
3
4
5
10
100
2000
20000
Observed
Loess


level=Surface
Station = -2.4
Station = 6.6
Station = 15.5
Station = 23.6
Station = 30.7
IRON
0
1
2
3
4
5
10
100
2000
20000
Observed
Loess

APPENDIX L

Chlorophyll a Logistic Regression Results for Station 15.5 Wet Season

DO Logistic 15.5 and Wet

The LOGISTIC Procedure

Model Information	
Data Set	WORK.CHLA_LOGIT
Response Variable	chla_exceed
Number of Response Levels	2
Model	binary logit
Optimization Technique	Fisher's scoring

Number of Observations Read	109
Number of Observations Used	108

Response Profile		
Ordered Value	**chla_exceed**	**Total Frequency**
1	1	41
2	0	67

Probability modeled is chla_exceed=1.

Note: 1 observation was deleted due to missing values for the response or explanatory variables.

Model Convergence Status
Convergence criterion (GCONV=1E-8) satisfied.

Model Fit Statistics		
Criterion	**Intercept Only**	**Intercept and Covariates**
AIC	145.399	128.185
SC	148.081	138.914
-2 Log L	143.399	120.185

R-Square	0.1934	**Max-rescaled R-Square**	0.2632

DO Logistic 15.5 and Wet

The LOGISTIC Procedure

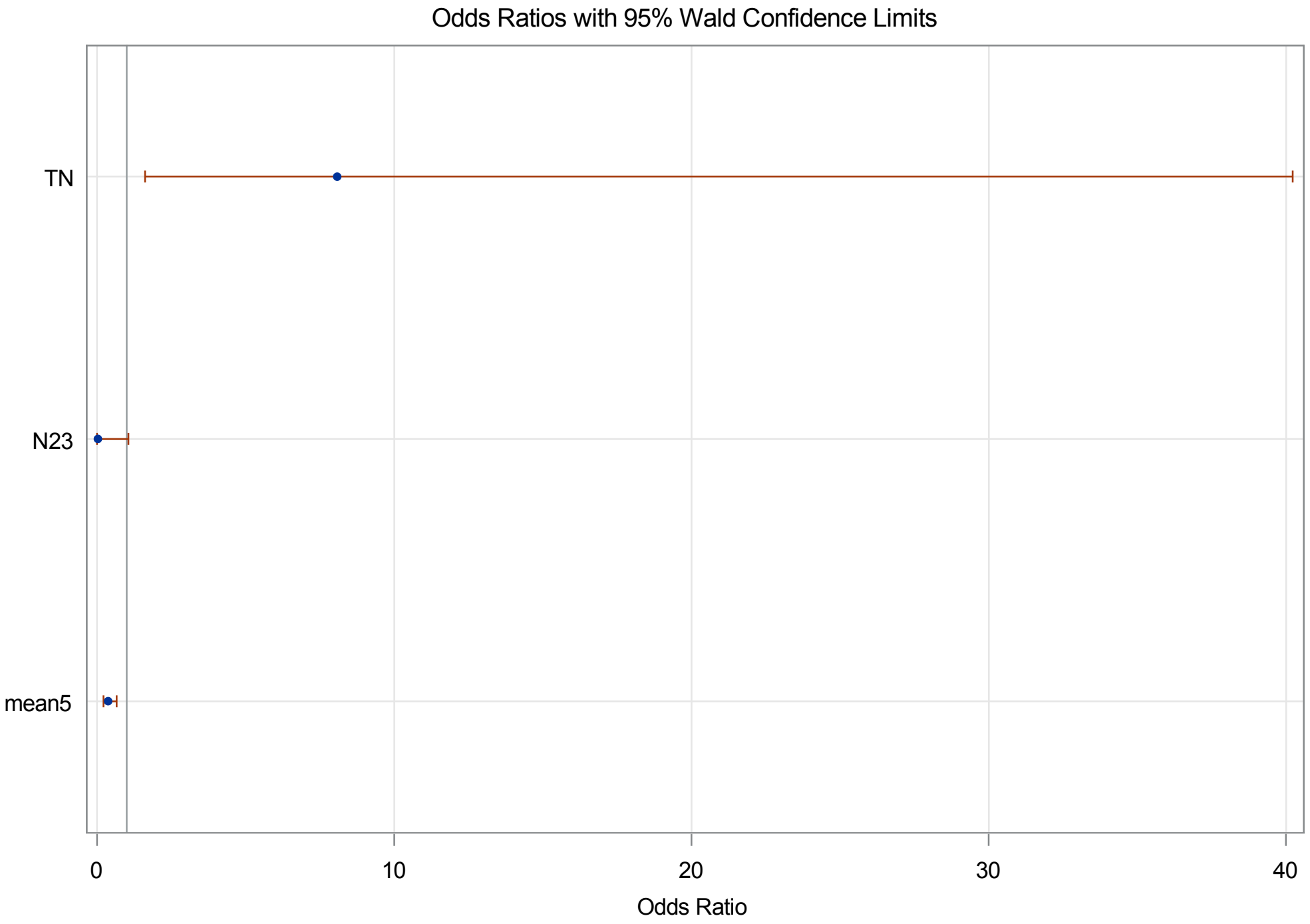
Testing Global Null Hypothesis: BETA=0			
Test	**Chi-Square**	**DF**	**Pr > ChiSq**
Likelihood Ratio	23.2135	3	<.0001
Score	21.1300	3	<.0001
Wald	16.4715	3	0.0009

Analysis of Maximum Likelihood Estimates					
Parameter	**DF**	**Estimate**	**Standard Error**	**Wald Chi-Square**	**Pr > ChiSq**
Intercept	1	3.9708	1.4766	7.2310	0.0072
TN	1	2.0877	0.8198	6.4857	0.0109
N23	1	-3.7346	1.9340	3.7289	0.0535
mean5	1	-0.9656	0.2820	11.7257	0.0006

Odds Ratio Estimates			
Effect	**Point Estimate**	**95% Wald Confidence Limits**	
TN	8.066	1.618	40.220
N23	0.024	<0.001	1.058
mean5	0.381	0.219	0.662

DO Logistic 15.5 and Wet

The LOGISTIC Procedure


Odds Ratios with 95% Wald Confidence Limits
TN
N23
mean5
0
10
20
30
40
Odds Ratio

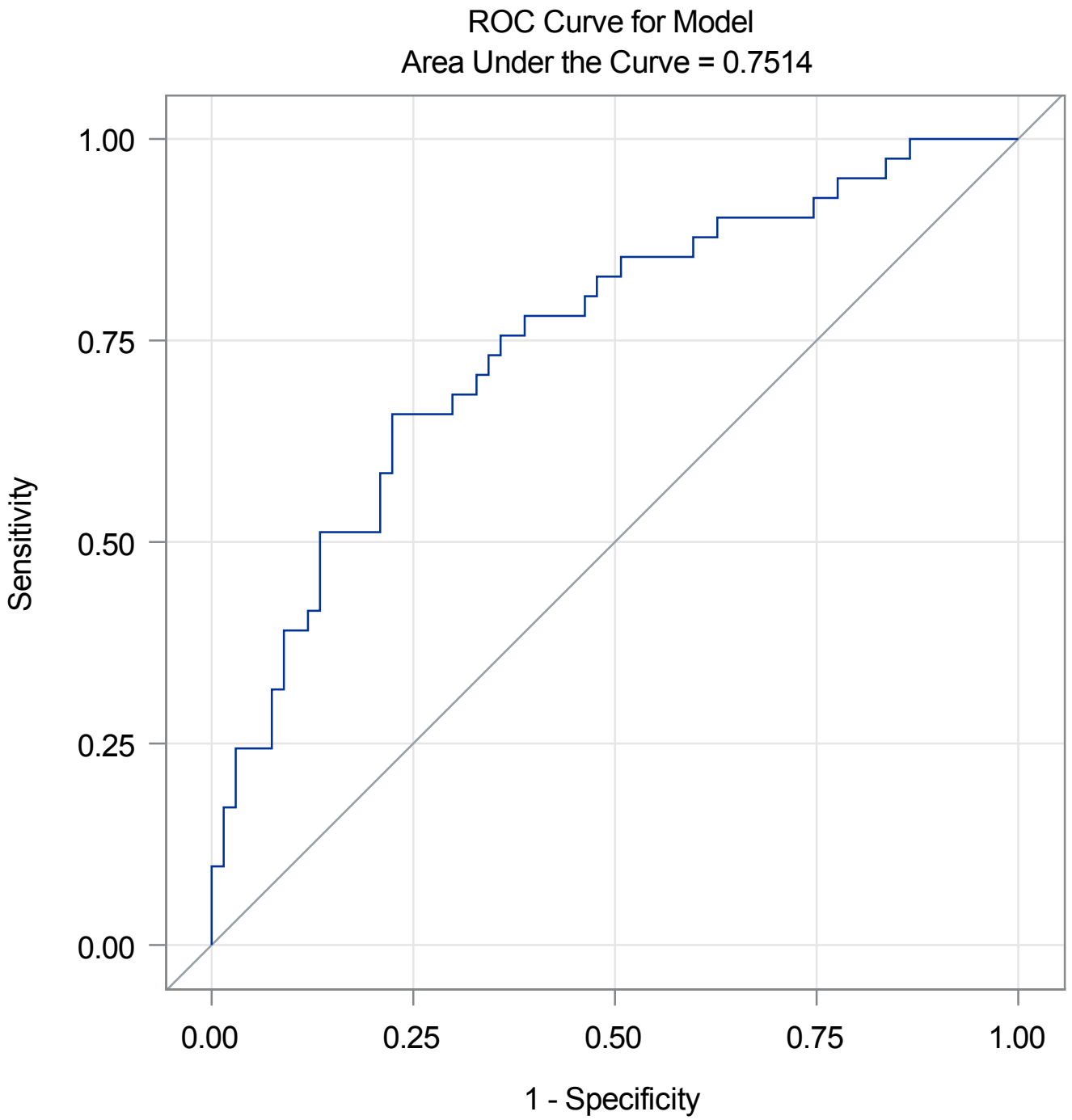
DO Logistic 15.5 and Wet

The LOGISTIC Procedure

Association of Predicted Probabilities and Observed Responses			
Percent Concordant	75.1	**Somers' D**	0.503
Percent Discordant	24.9	**Gamma**	0.503
Percent Tied	0.0	**Tau-a**	0.239
Pairs	2747	**c**	0.751

DO Logistic 15.5 and Wet

The LOGISTIC Procedure


ROC Curve for Model
Area Under the Curve = 0.7514
Sensitivity
1.00
0.75
0.50
0.25
0.00
0.00
0.25
0.50
0.75
1.00
1 - Specificity

DO Logistic 15.5 and Wet

The LOGISTIC Procedure

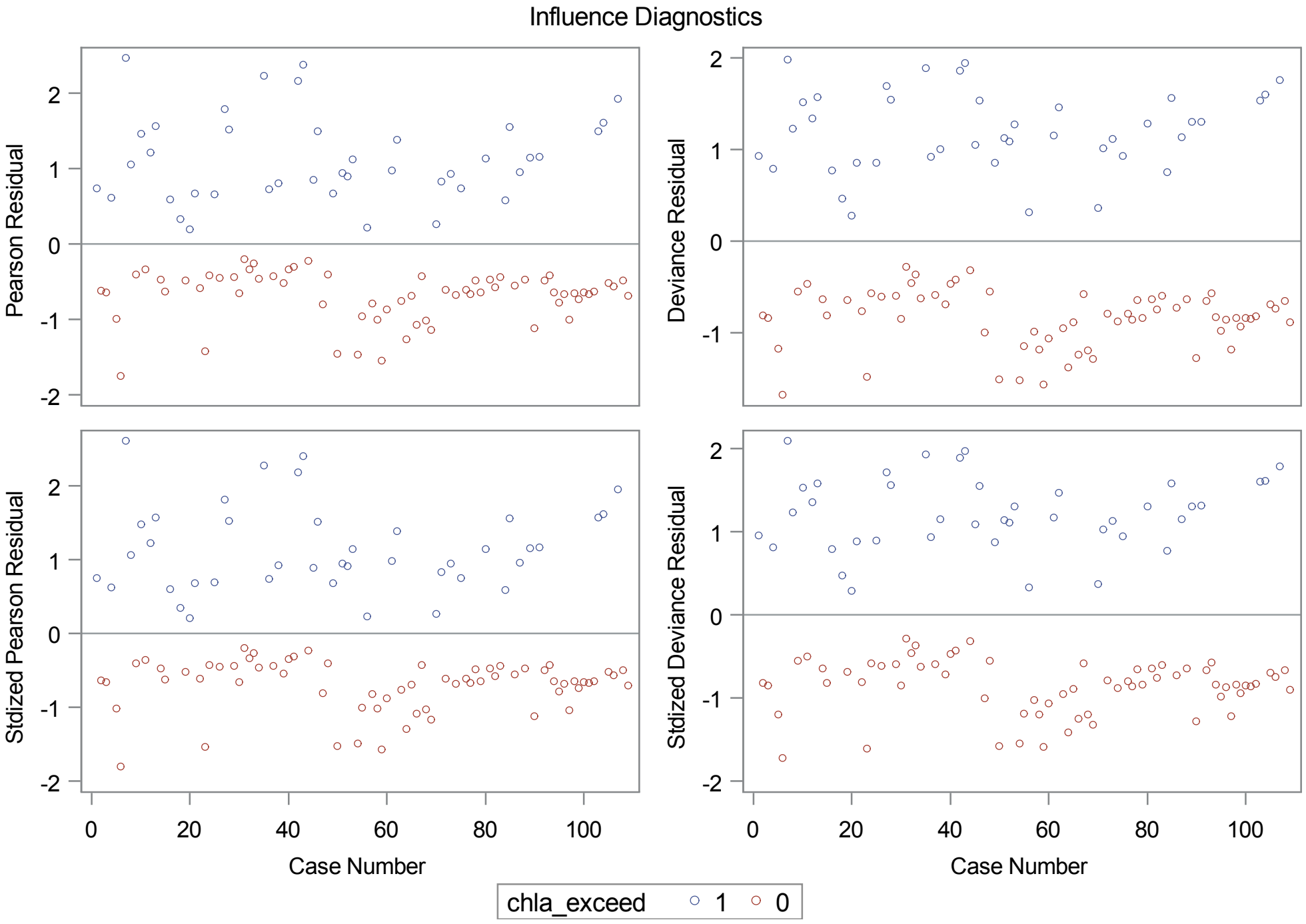
Partition for the Hosmer and Lemeshow Test					
		chla_exceed = 1		chla_exceed = 0	
Group	Total	Observed	Expected	Observed	Expected
1	11	1	1.11	10	9.89
2	11	3	1.81	8	9.19
3	11	2	2.23	9	8.77
4	11	2	2.98	9	8.02
5	11	3	3.31	8	7.69
6	11	3	3.81	8	7.19
7	11	6	5.04	5	5.96
8	11	7	5.99	4	5.01
9	11	7	7.29	4	3.71
10	9	7	7.44	2	1.56

Hosmer and Lemeshow Goodness-of-Fit Test		
Chi-Square	DF	Pr > ChiSq
2.6272	8	0.9555

DO Logistic 15.5 and Wet

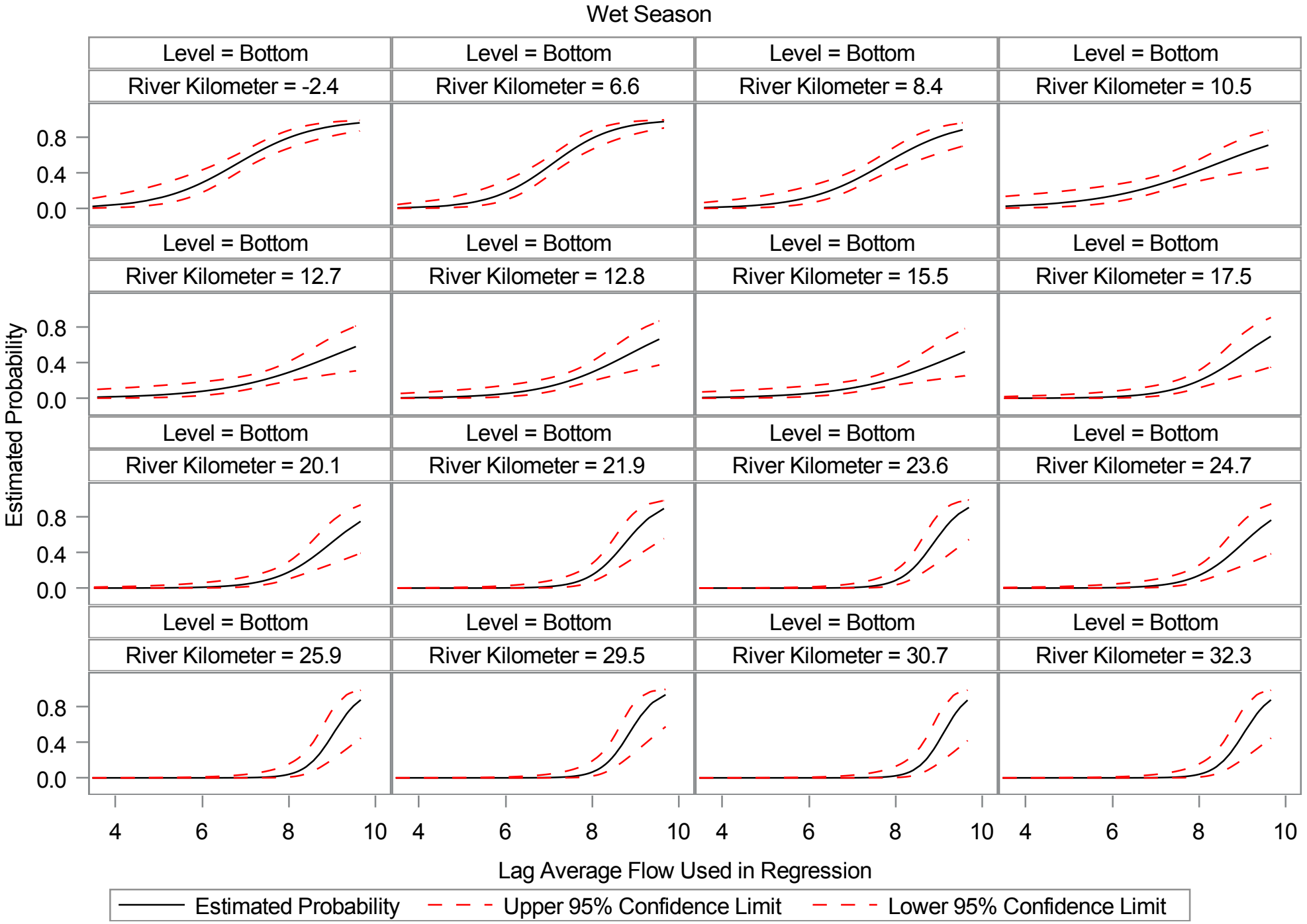
The LOGISTIC Procedure

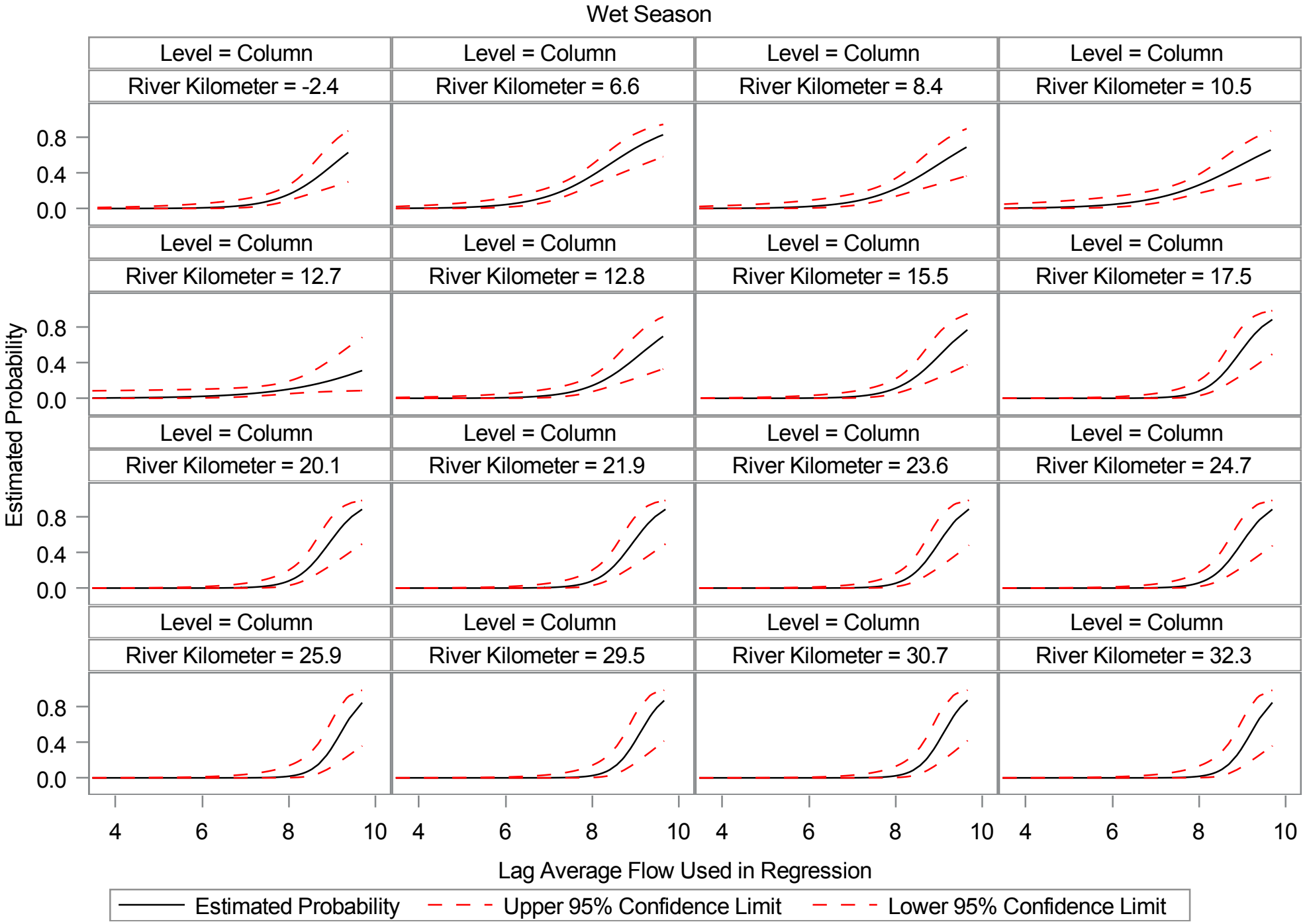
Continuing contents of page 10, which would not fit on a single physical page

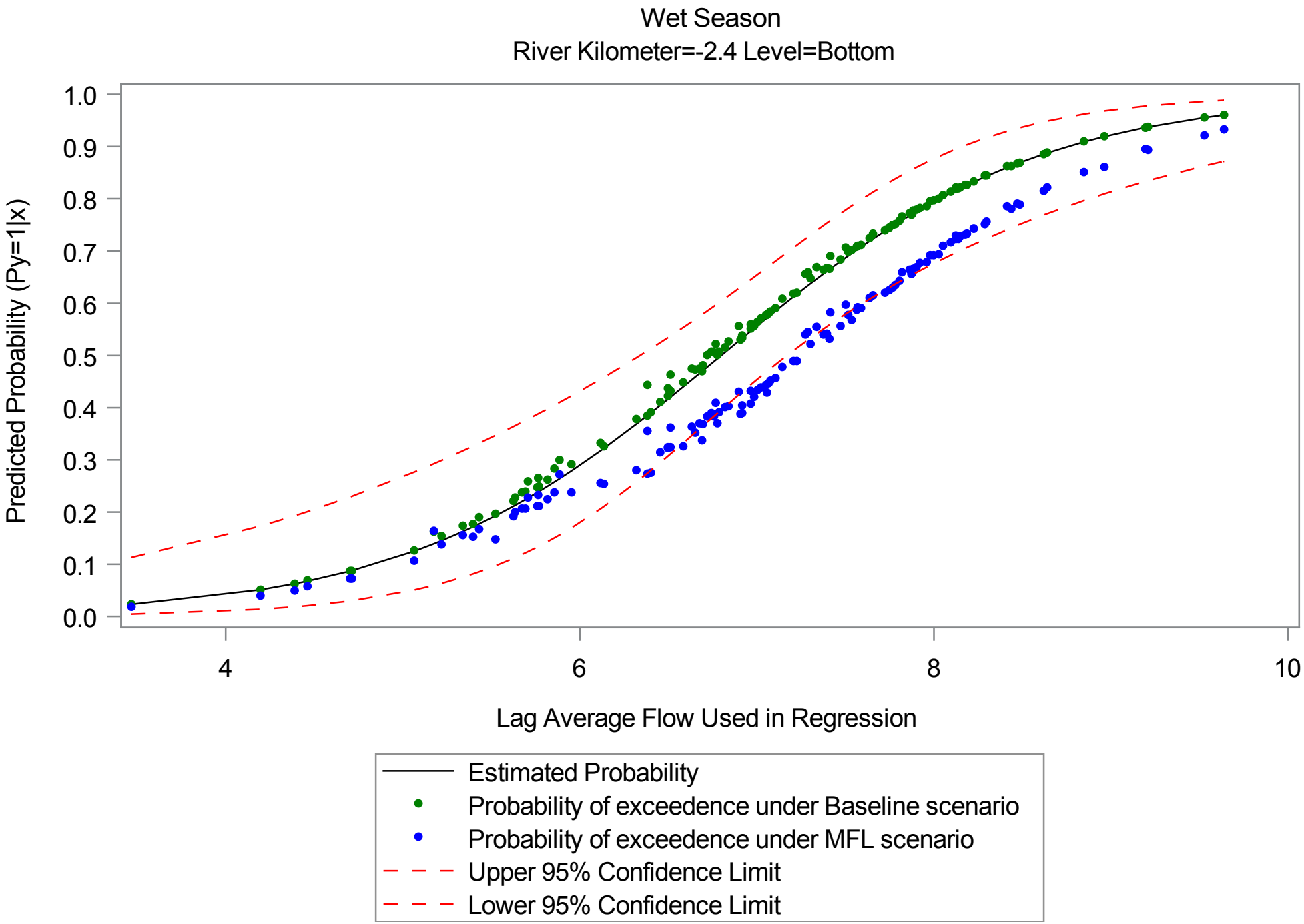


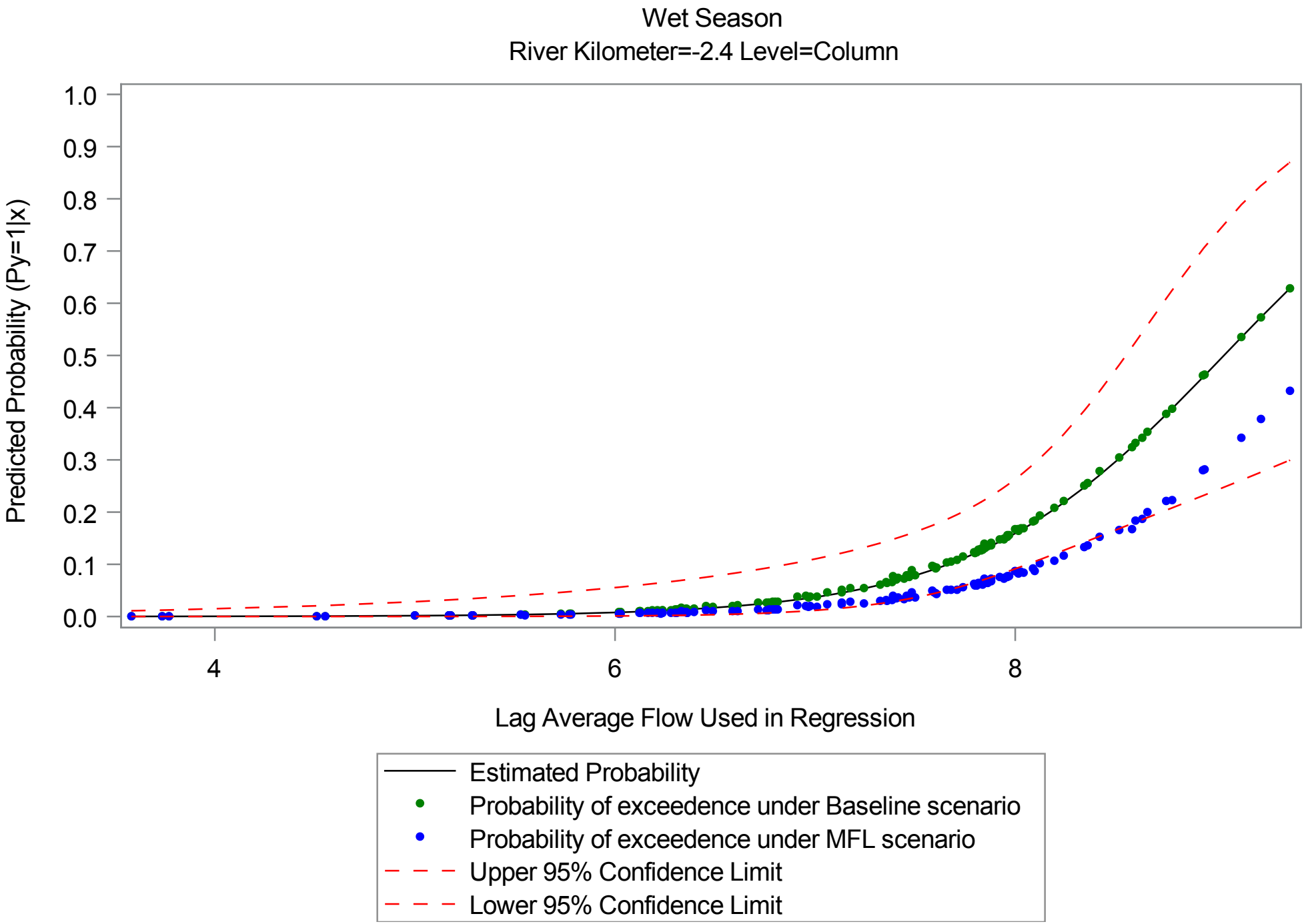
APPENDIX M

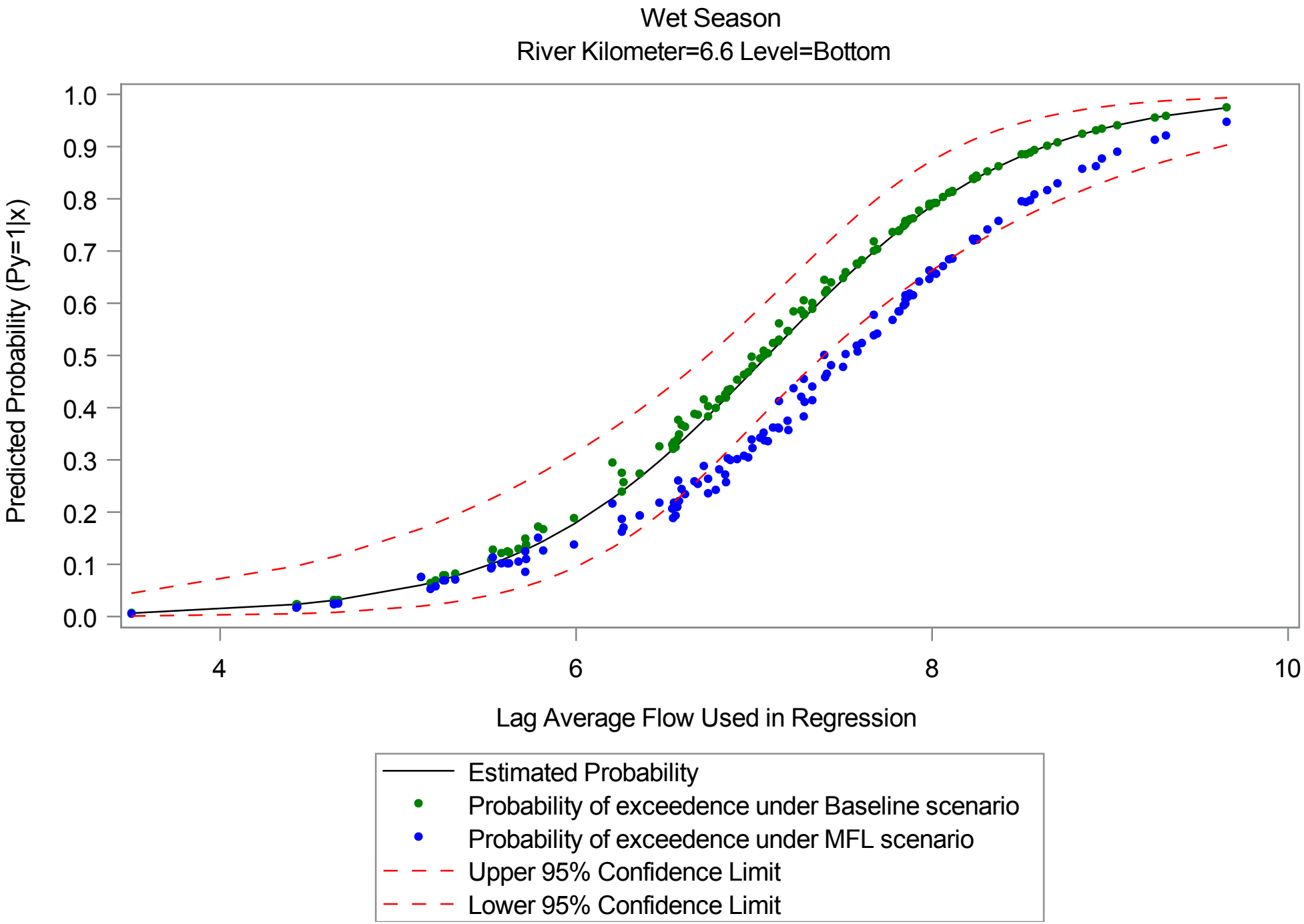
DO Logistic Regression MFL Assessment

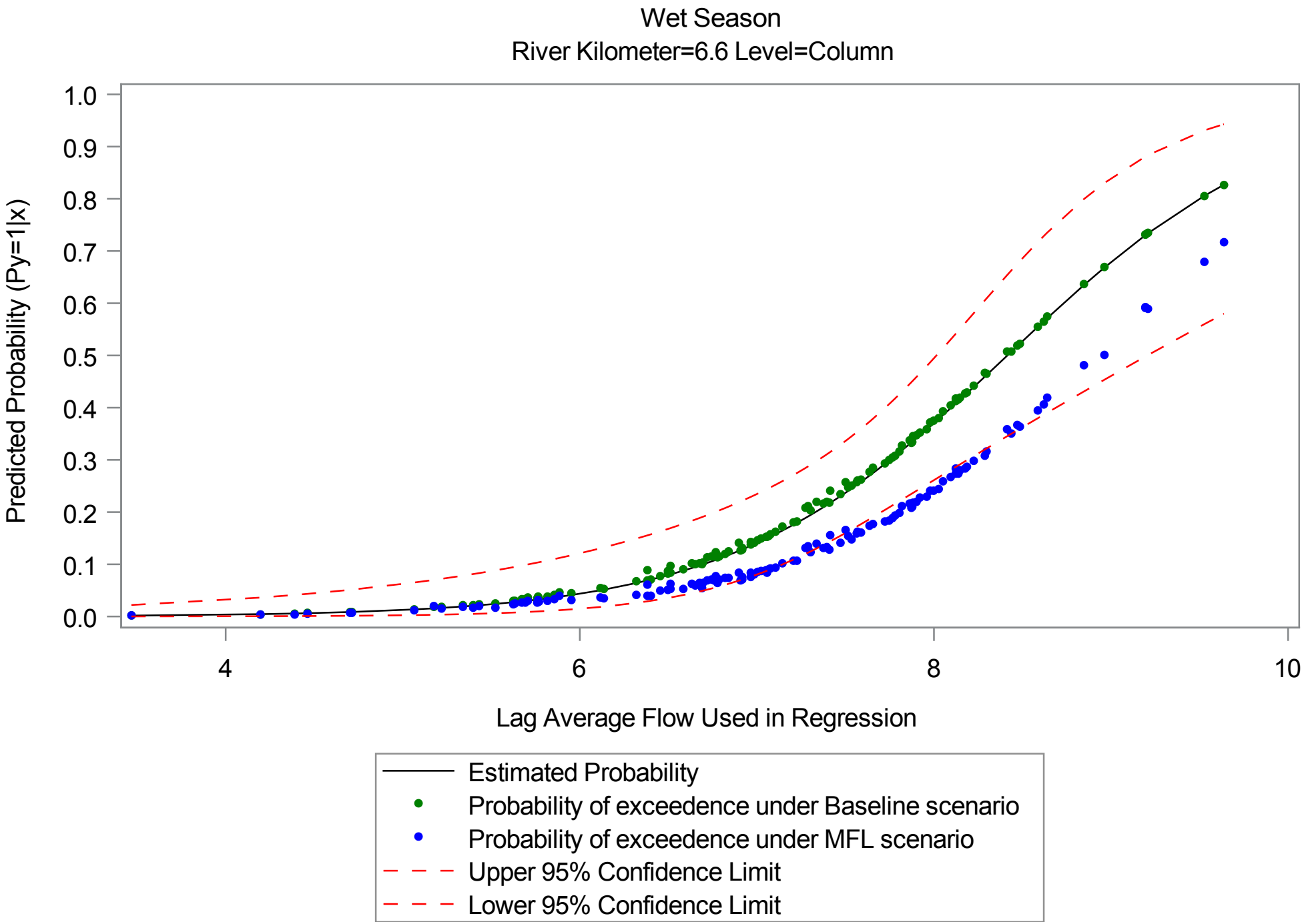

Wet Season
Level = Bottom
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
River Kilometer = 32.3
Estimated Probability
0.0
0.4
0.8
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Upper 95% Confidence Limit
Lower 95% Confidence Limit

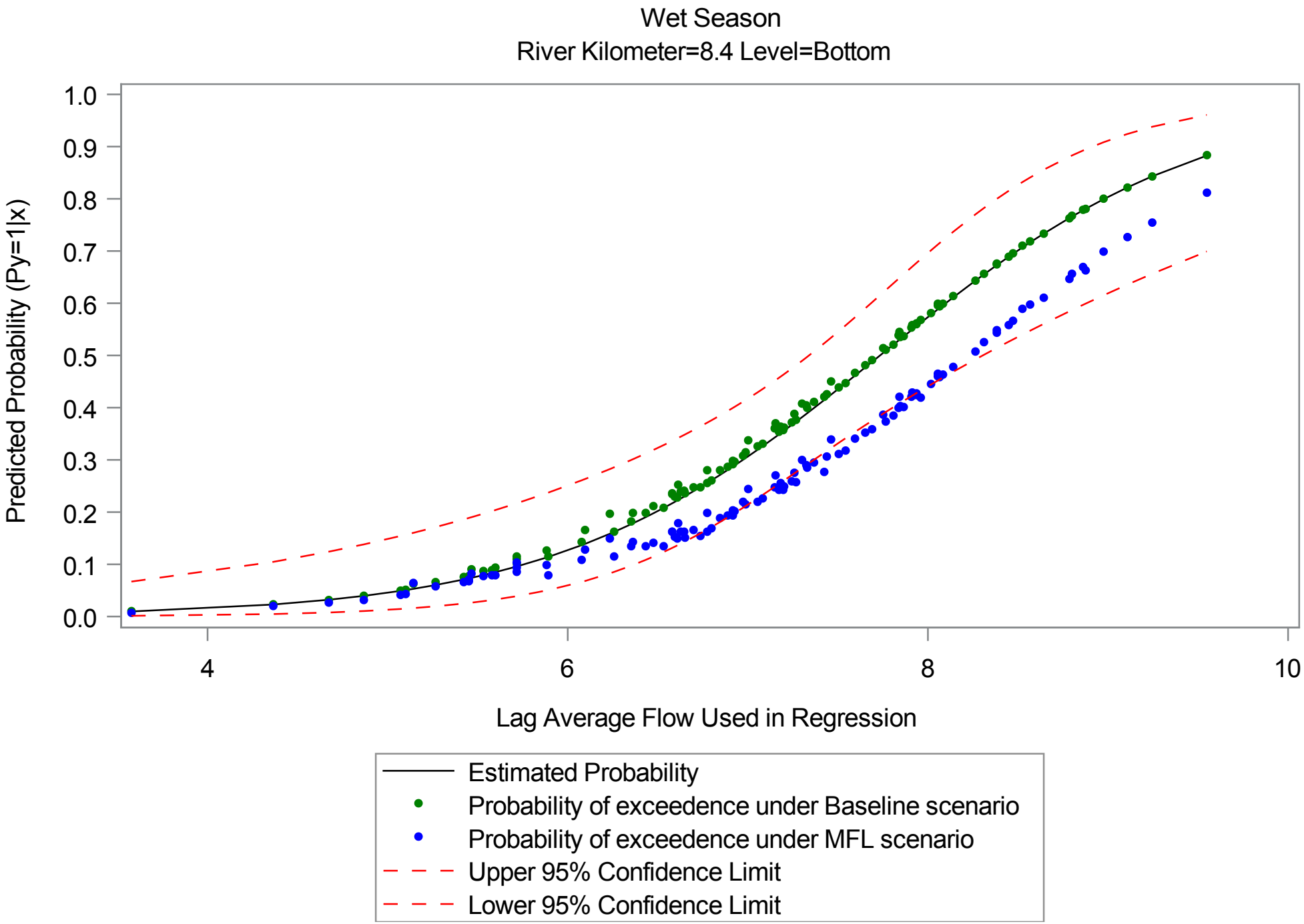

Wet Season
Level = Column
River Kilometer = -2.4
River Kilometer = 6.6
River Kilometer = 8.4
River Kilometer = 10.5
River Kilometer = 12.7
River Kilometer = 12.8
River Kilometer = 15.5
River Kilometer = 17.5
River Kilometer = 20.1
River Kilometer = 21.9
River Kilometer = 23.6
River Kilometer = 24.7
River Kilometer = 25.9
River Kilometer = 29.5
River Kilometer = 30.7
River Kilometer = 32.3
Estimated Probability
0.0
0.4
0.8
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Upper 95% Confidence Limit
Lower 95% Confidence Limit

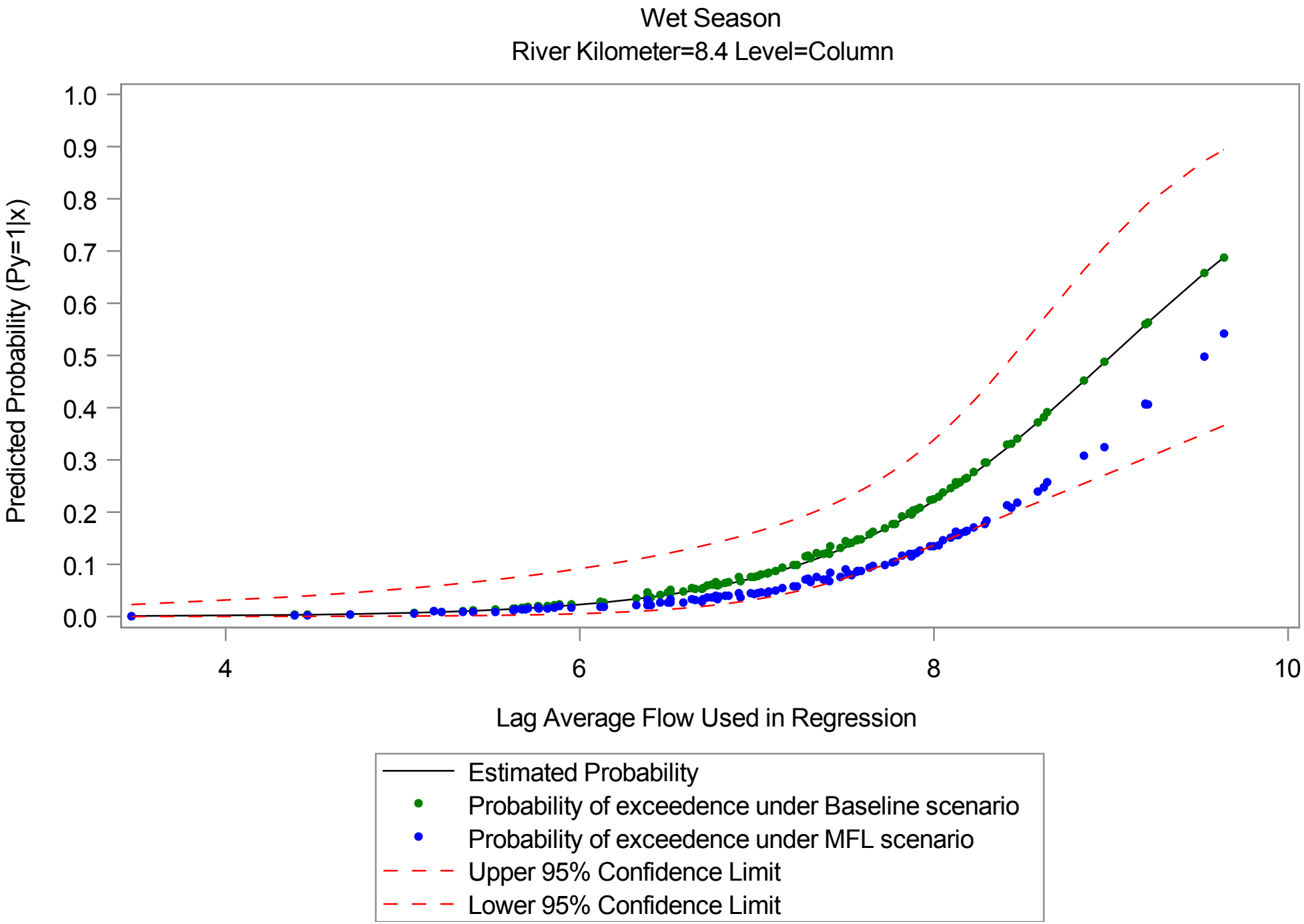

Wet Season
River Kilometer=-2.4 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

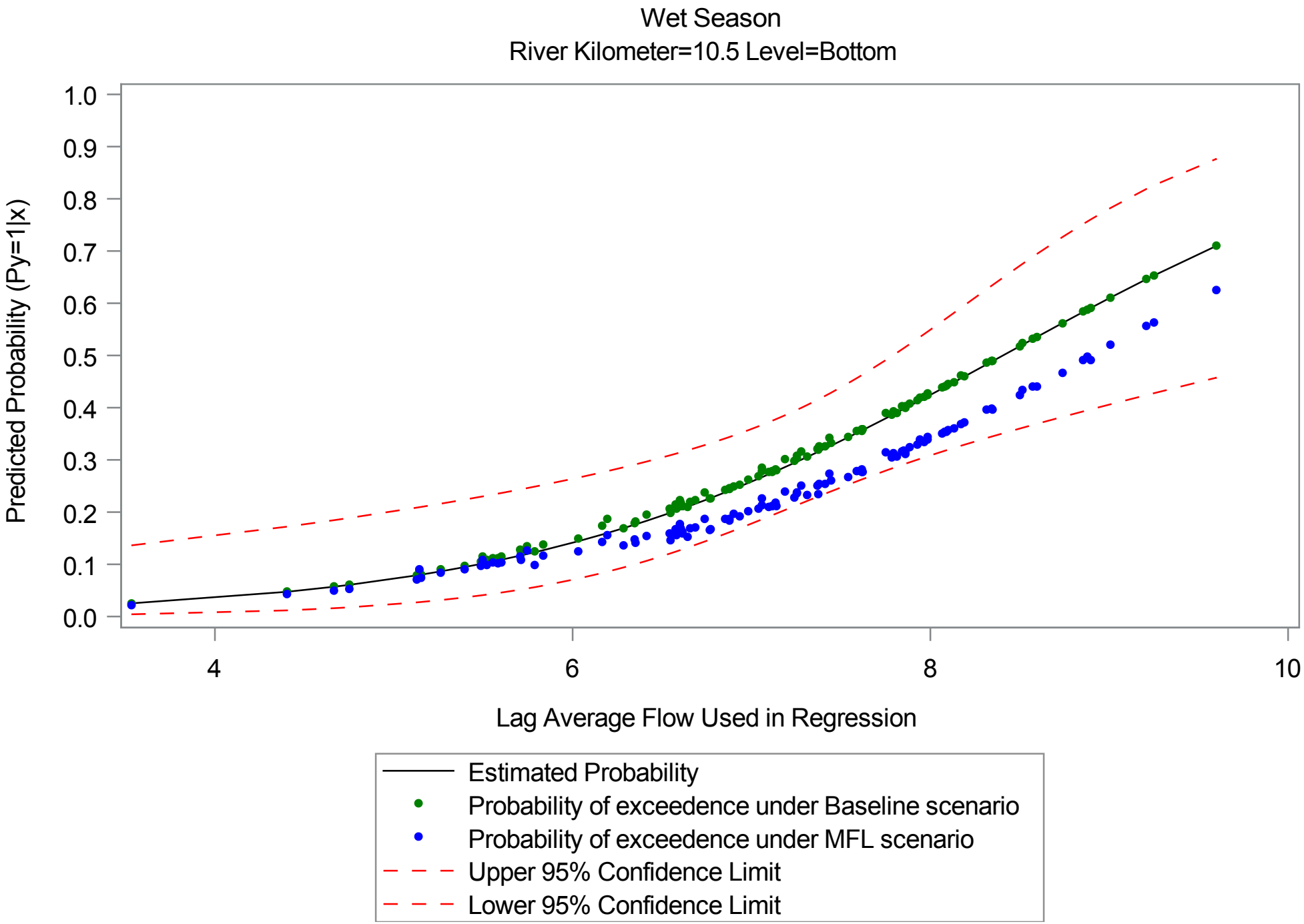

Wet Season
River Kilometer=-2.4 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

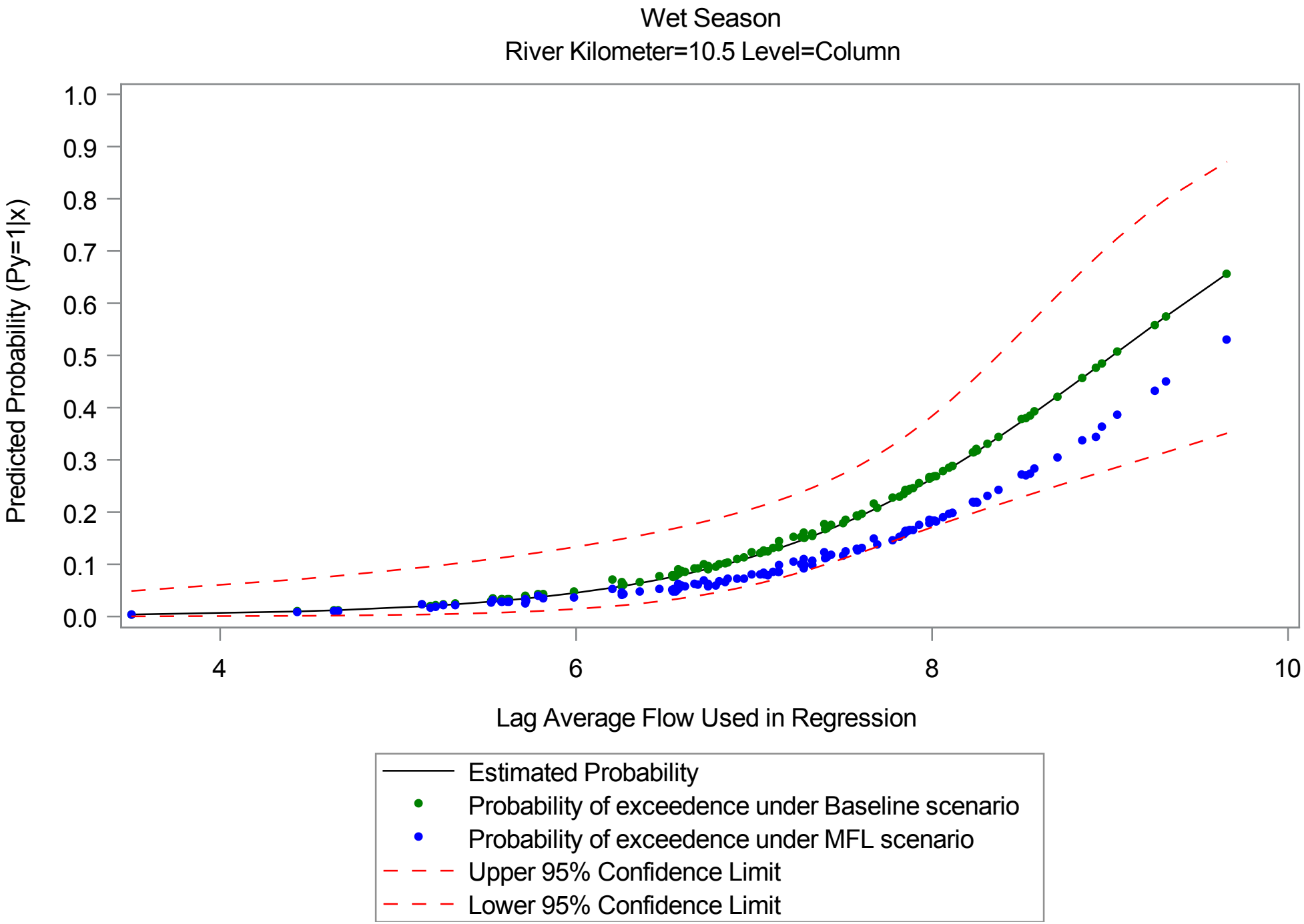

Wet Season
River Kilometer=6.6 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

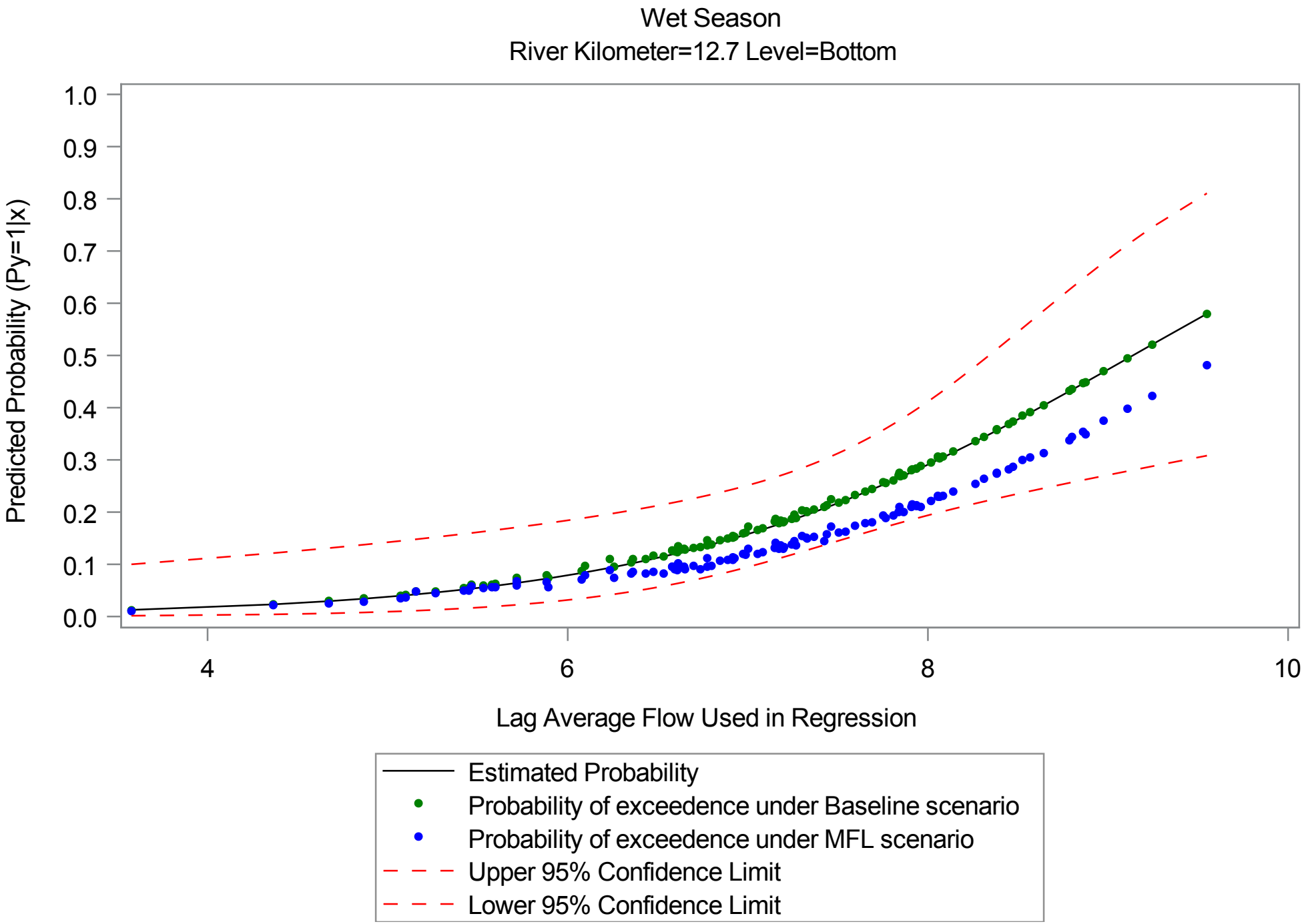

Wet Season
River Kilometer=6.6 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

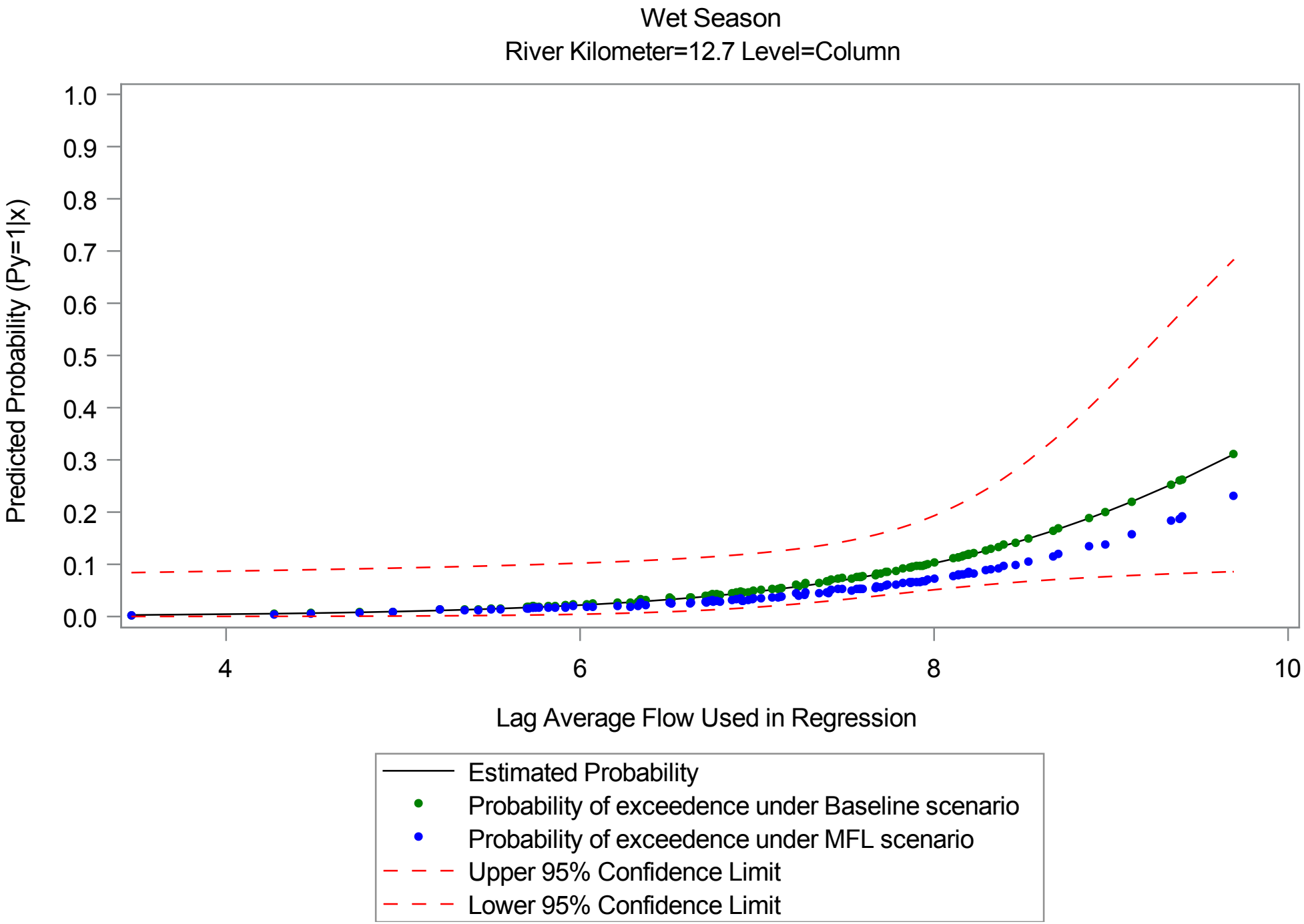

Wet Season
River Kilometer=8.4 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

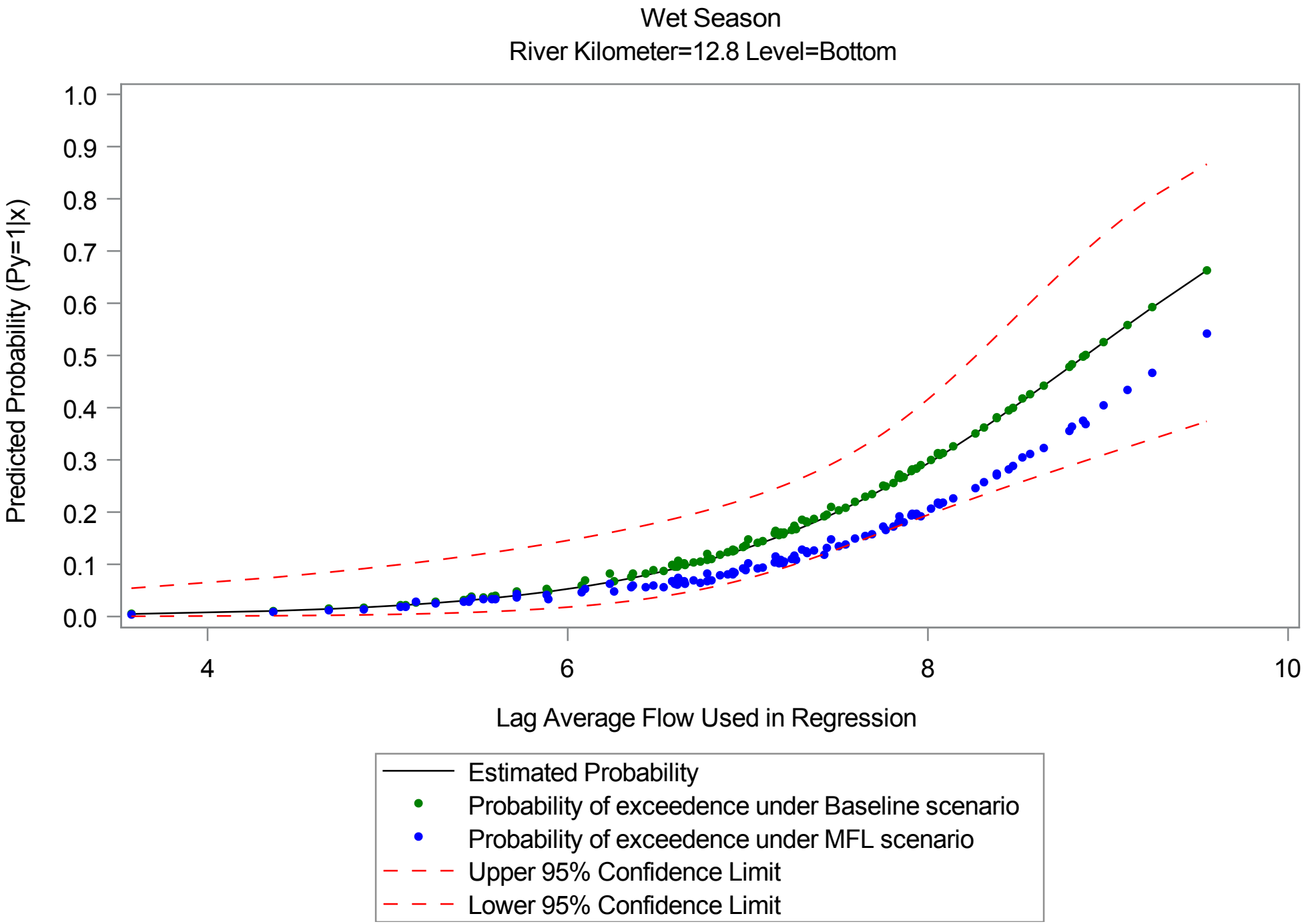

Wet Season
River Kilometer=8.4 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

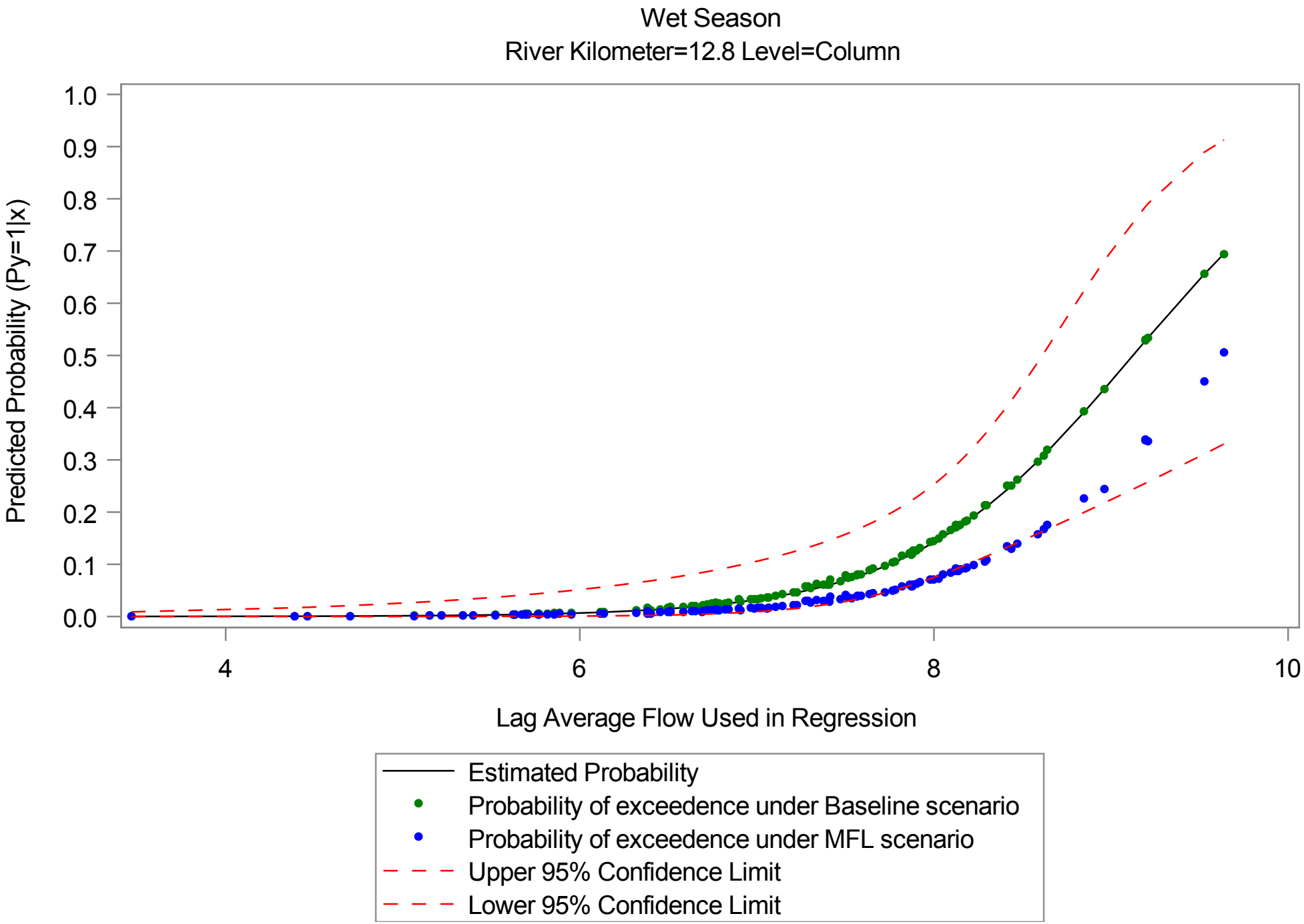

Wet Season
River Kilometer=10.5 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

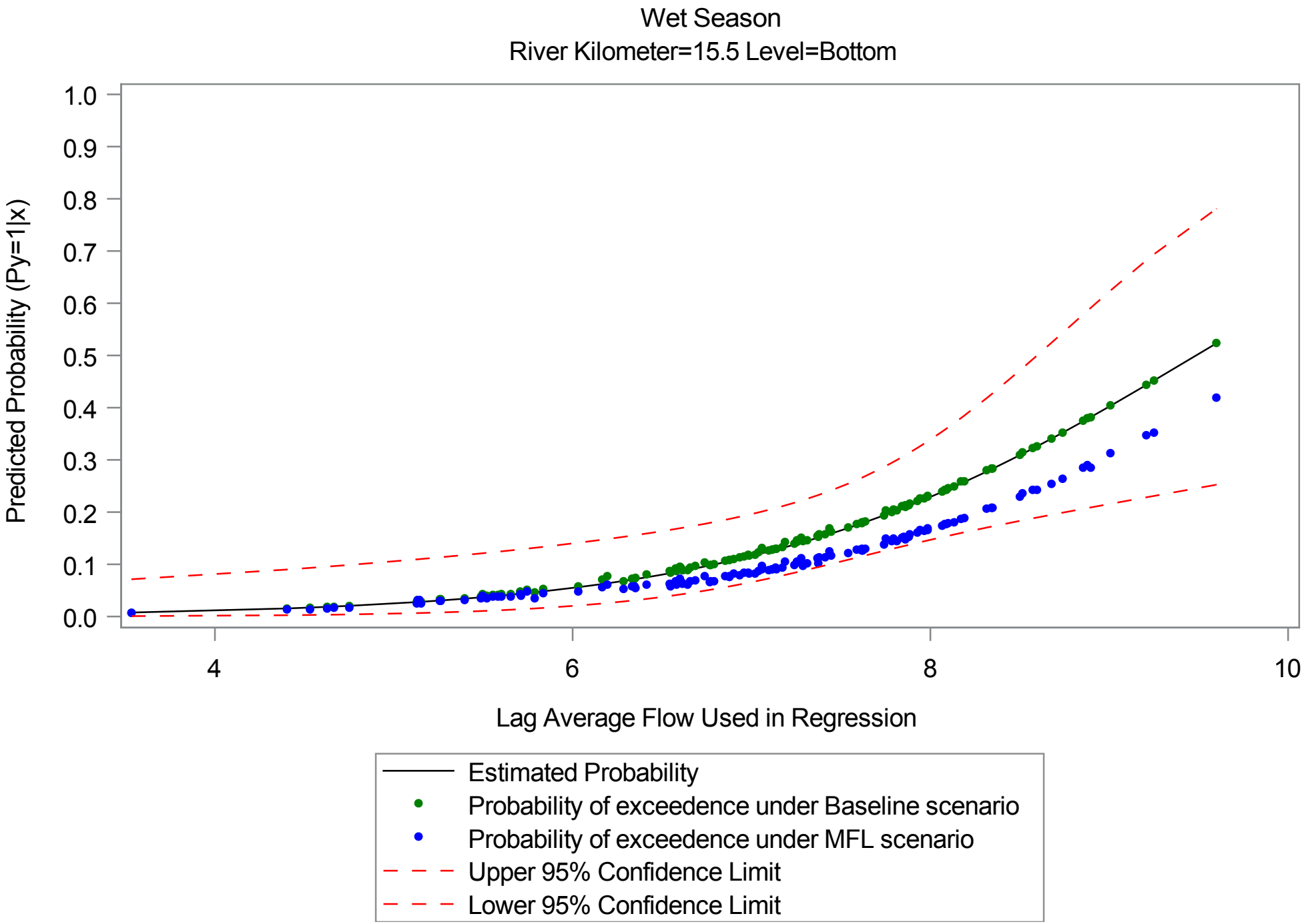

Wet Season
River Kilometer=10.5 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

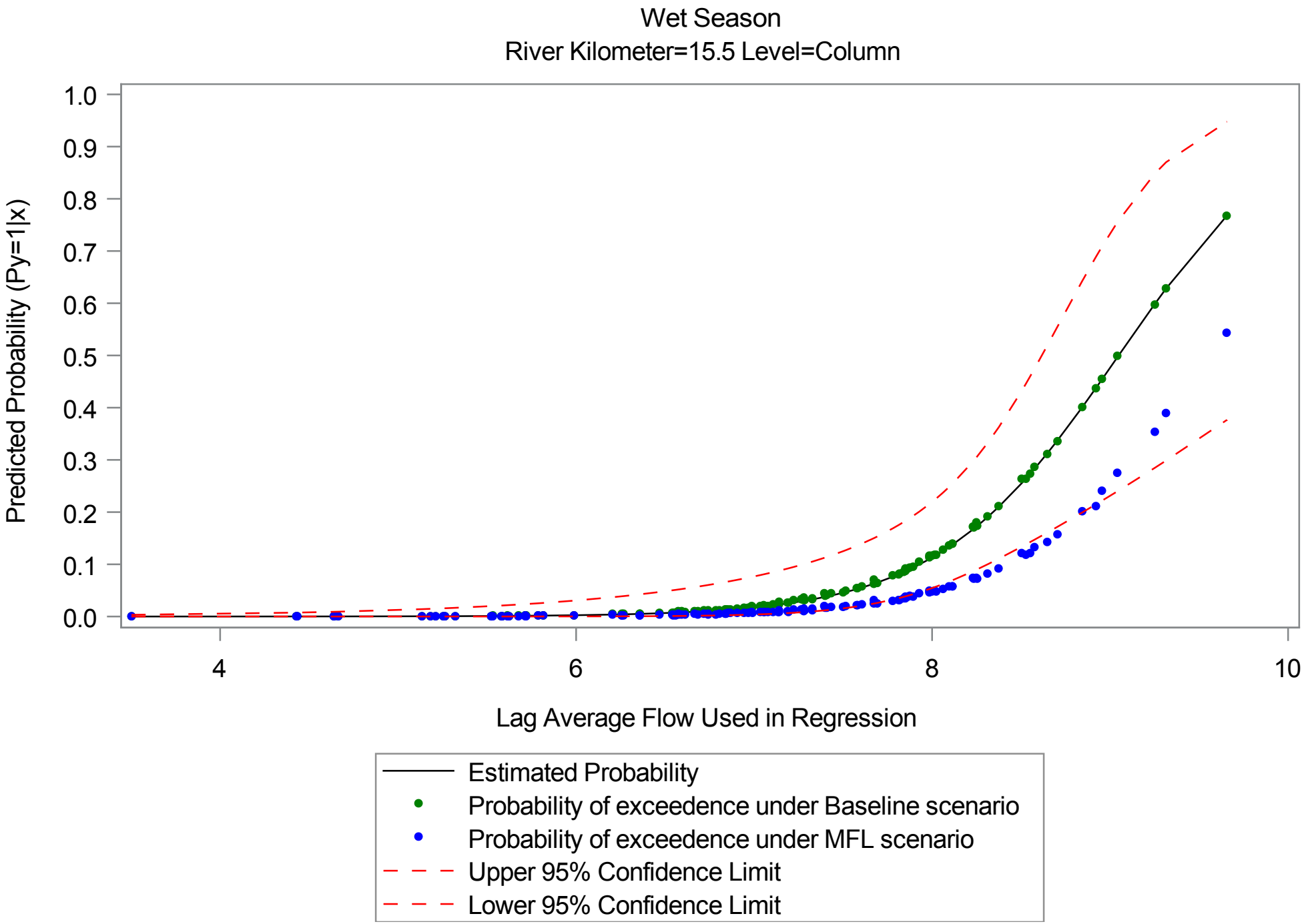

Wet Season
River Kilometer=12.7 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

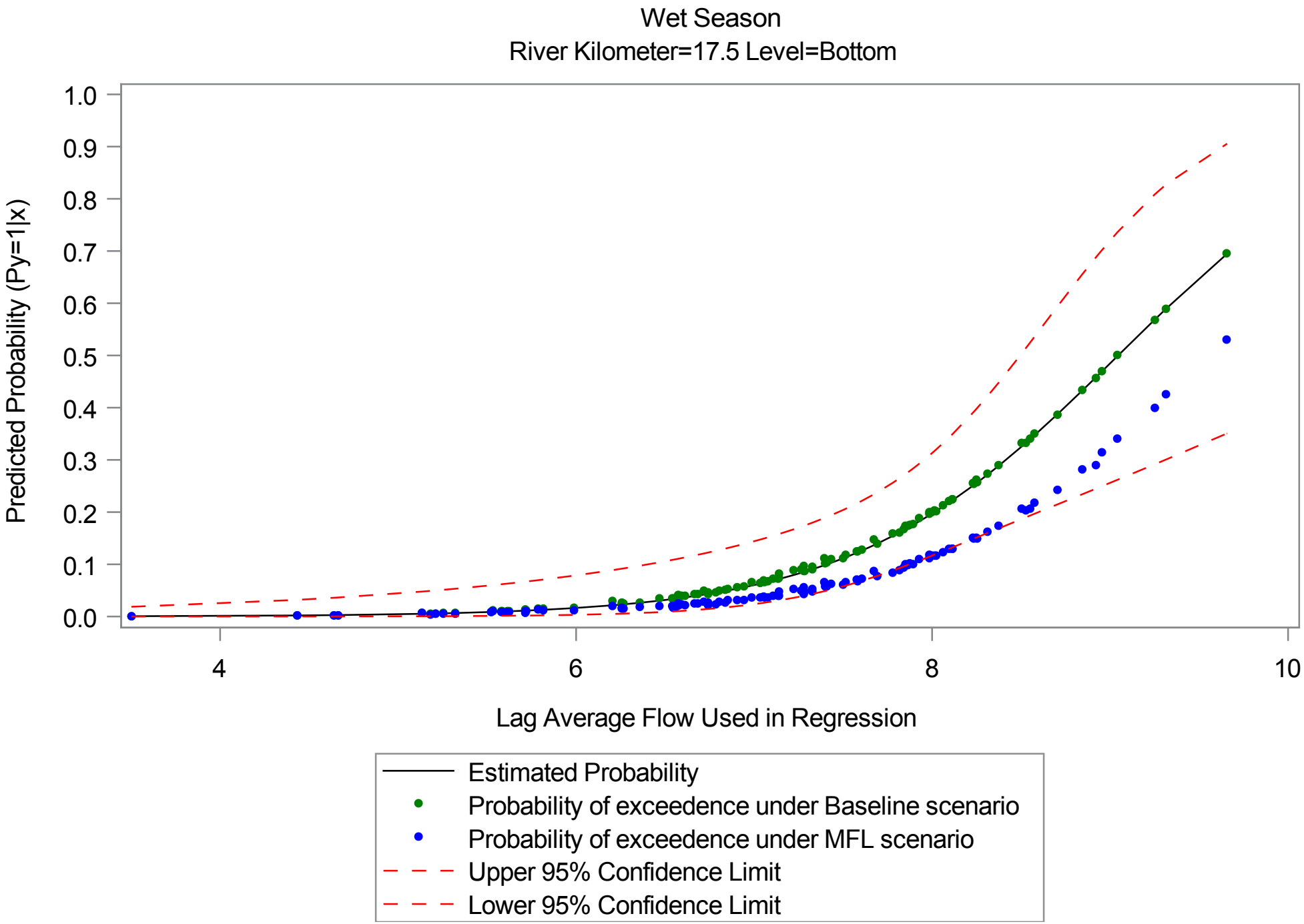

Wet Season
River Kilometer=12.7 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

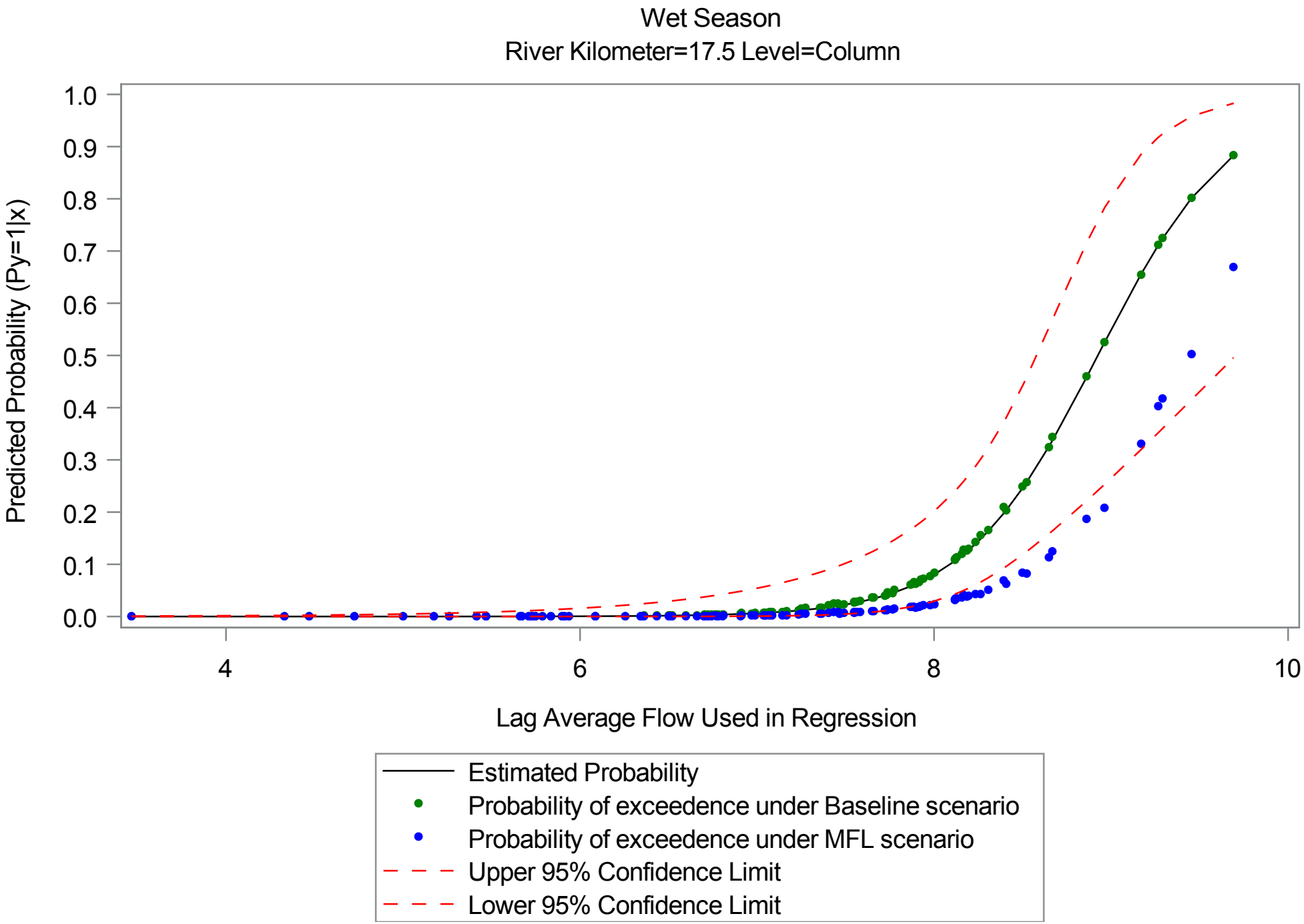

Wet Season
River Kilometer=12.8 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

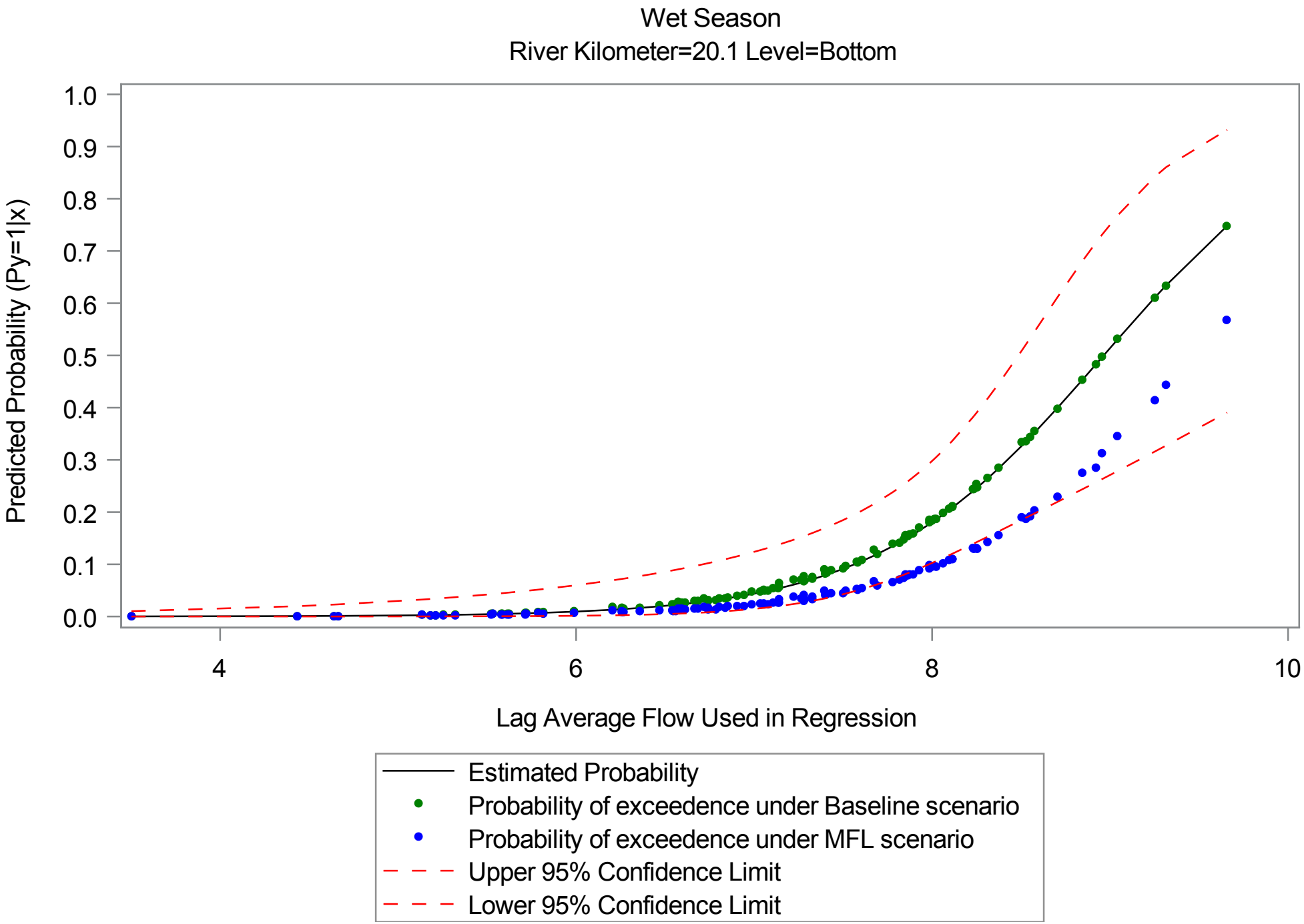

Wet Season
River Kilometer=12.8 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

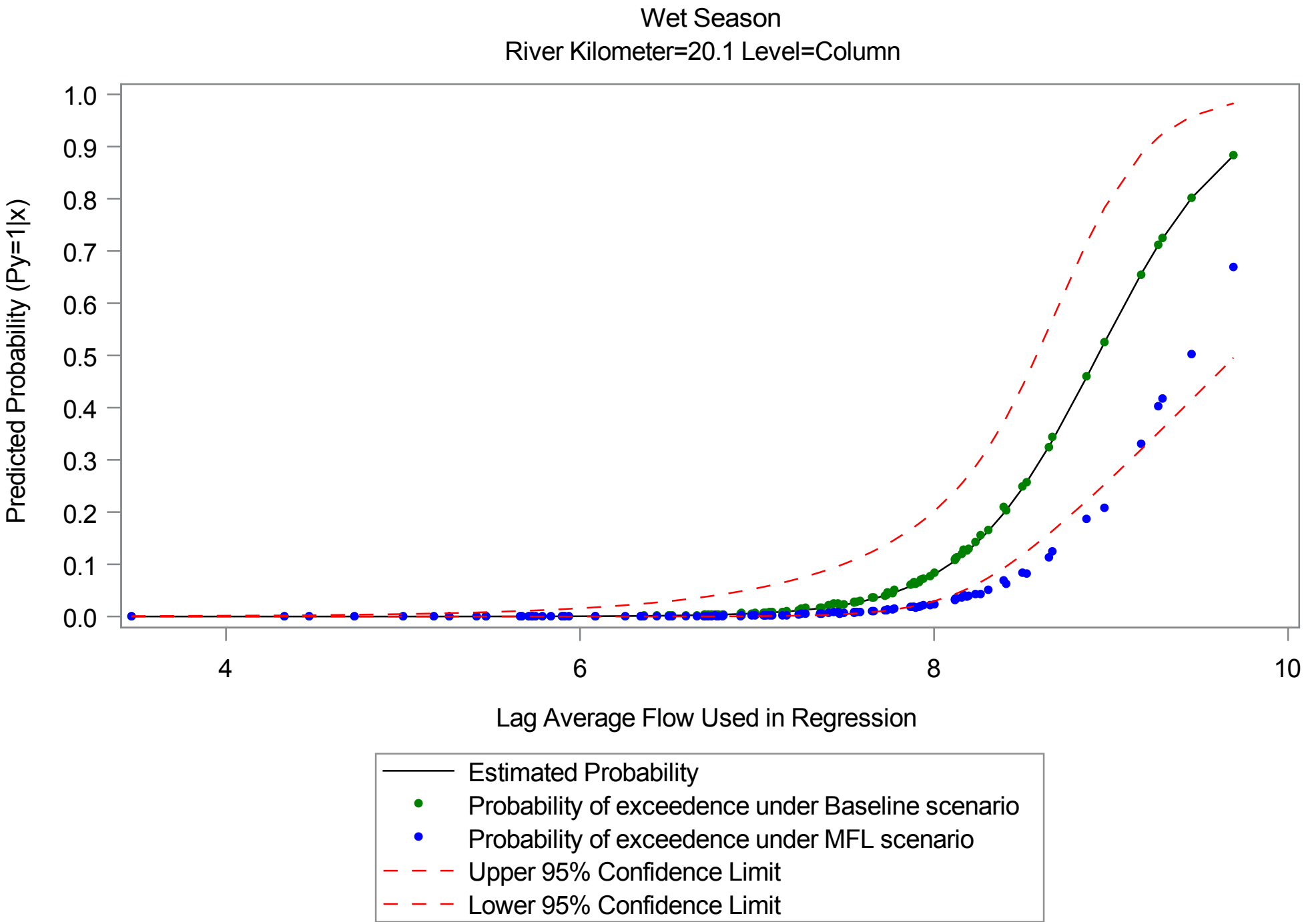

Wet Season
River Kilometer=15.5 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

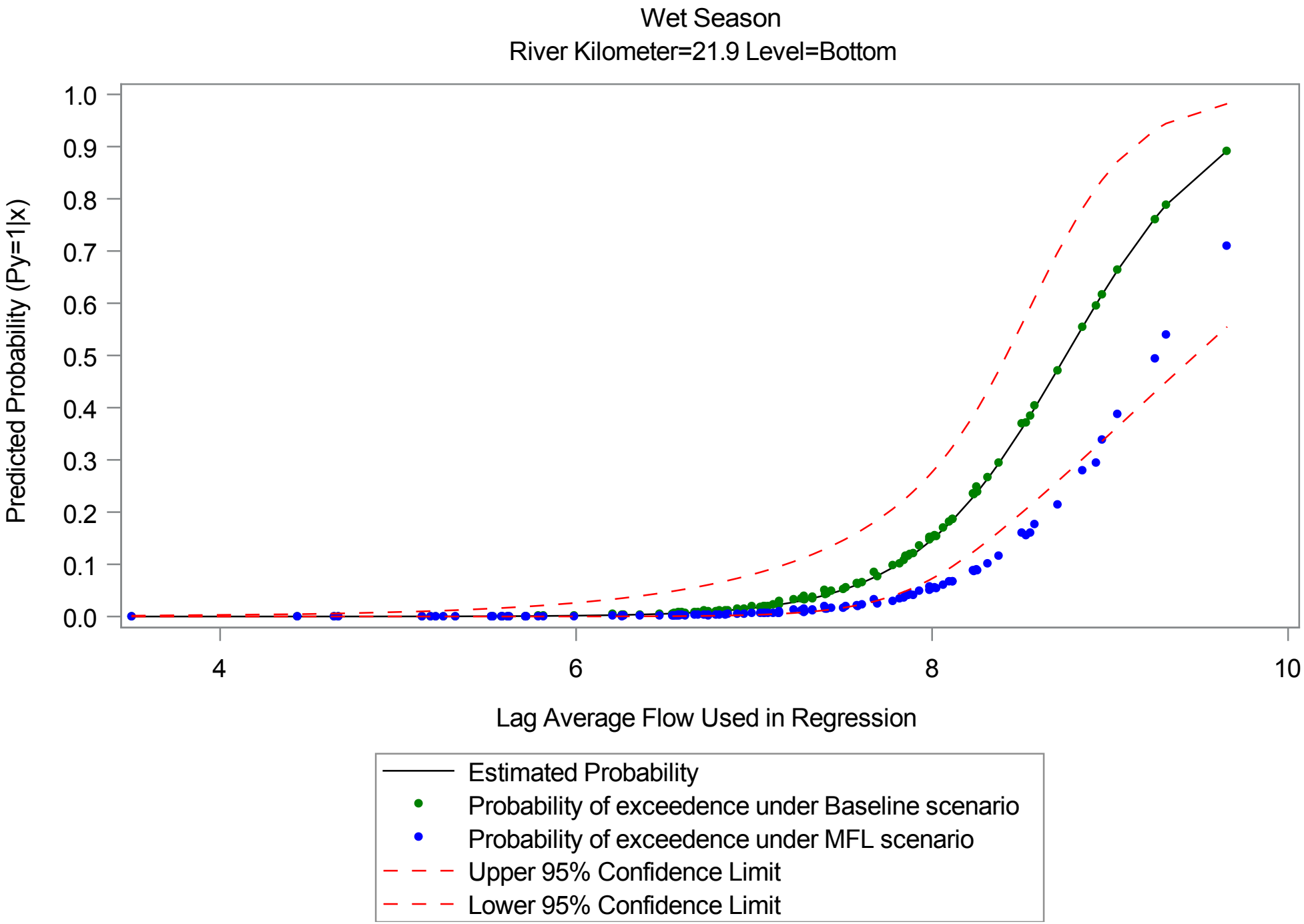

Wet Season
River Kilometer=15.5 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

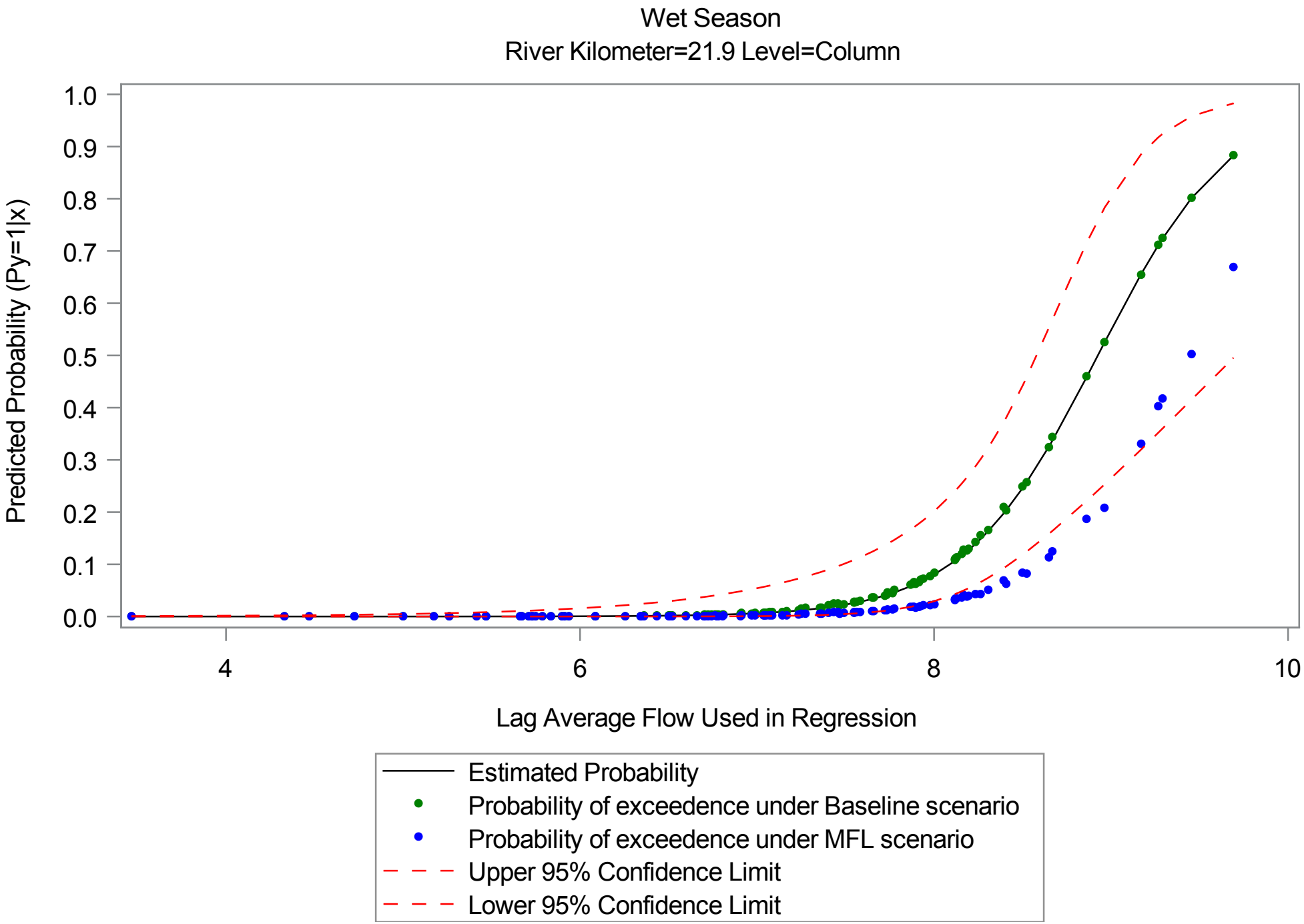

Wet Season
River Kilometer=17.5 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

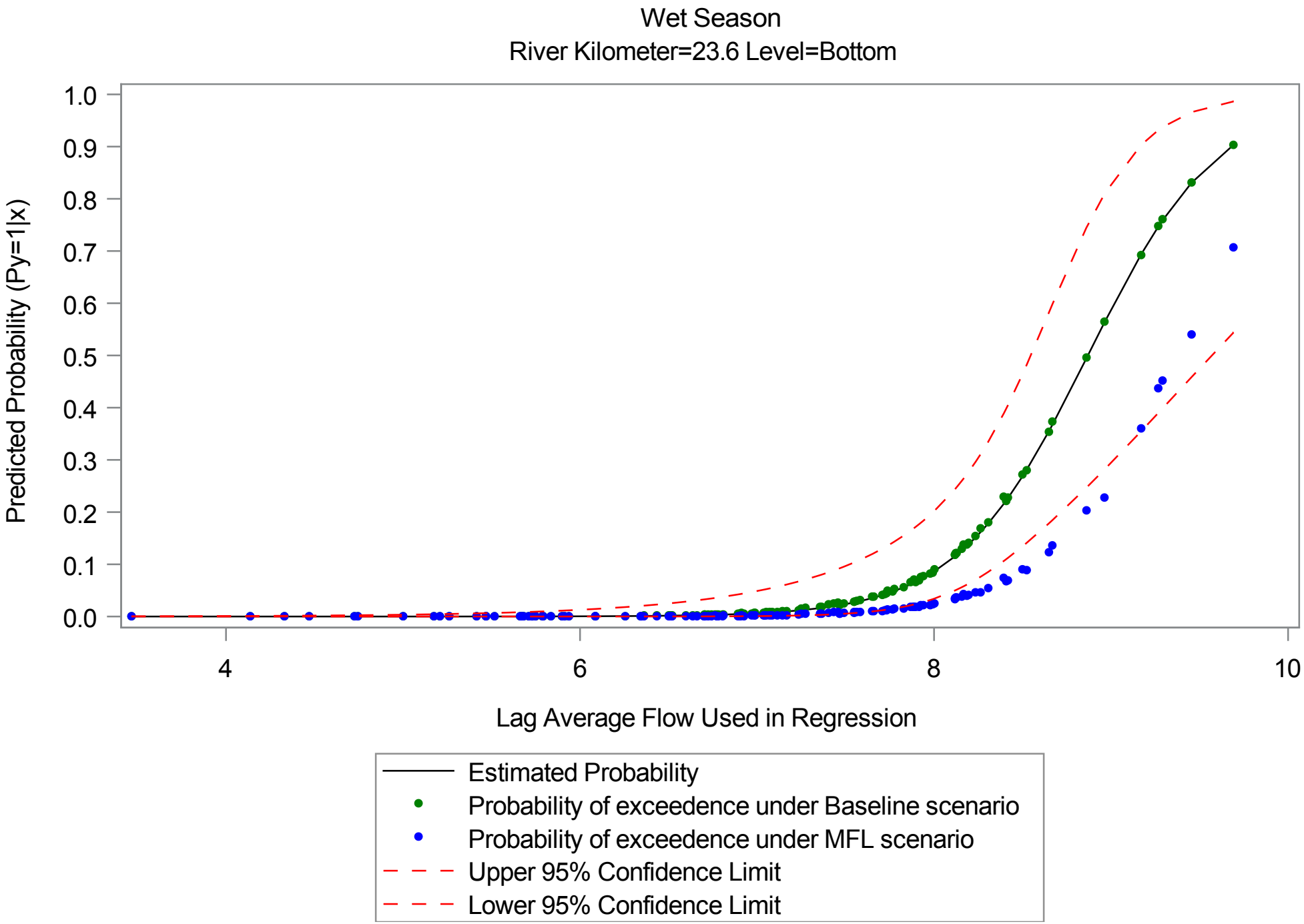

Wet Season
River Kilometer=17.5 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

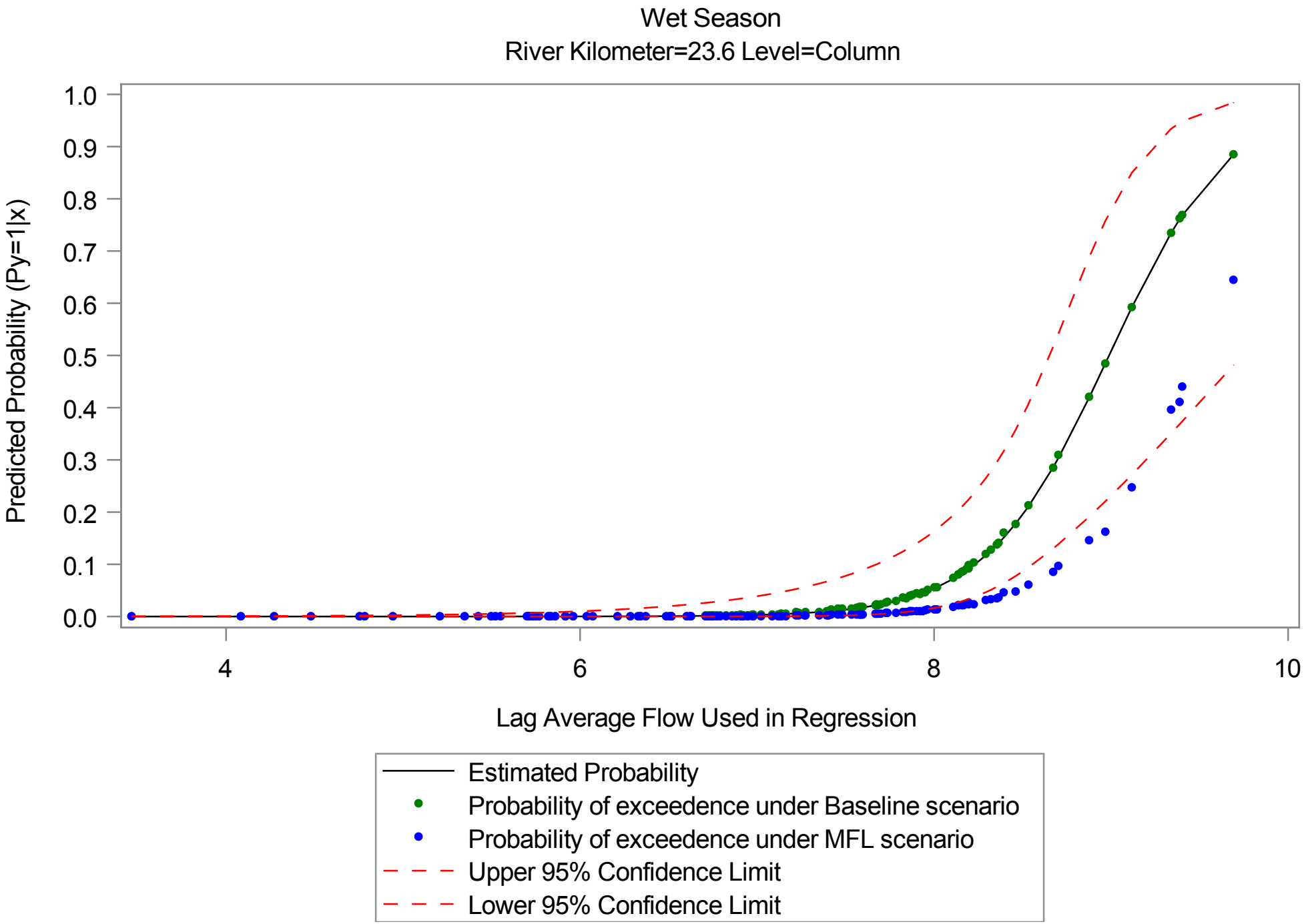

Wet Season
River Kilometer=20.1 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

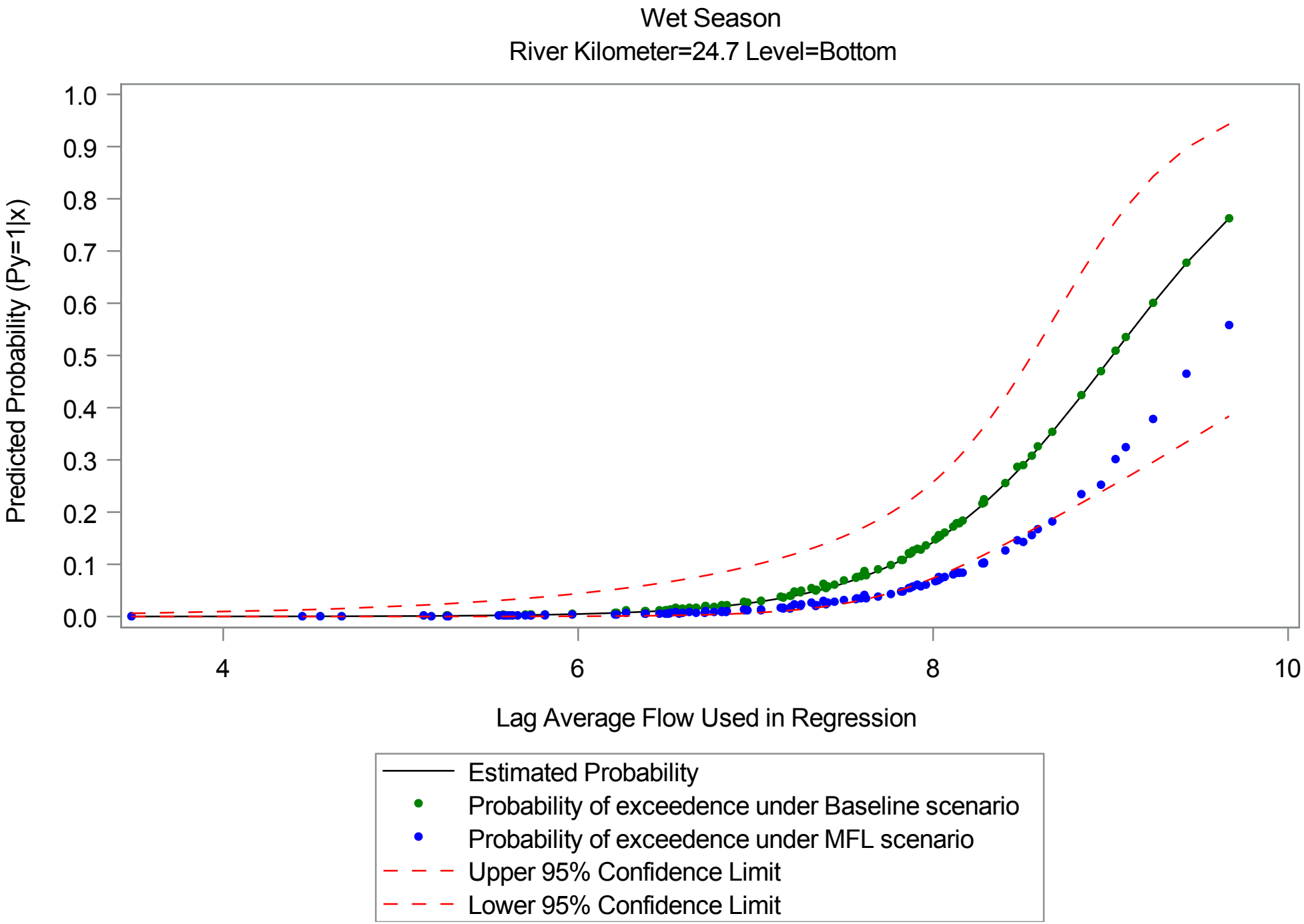

Wet Season
River Kilometer=20.1 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

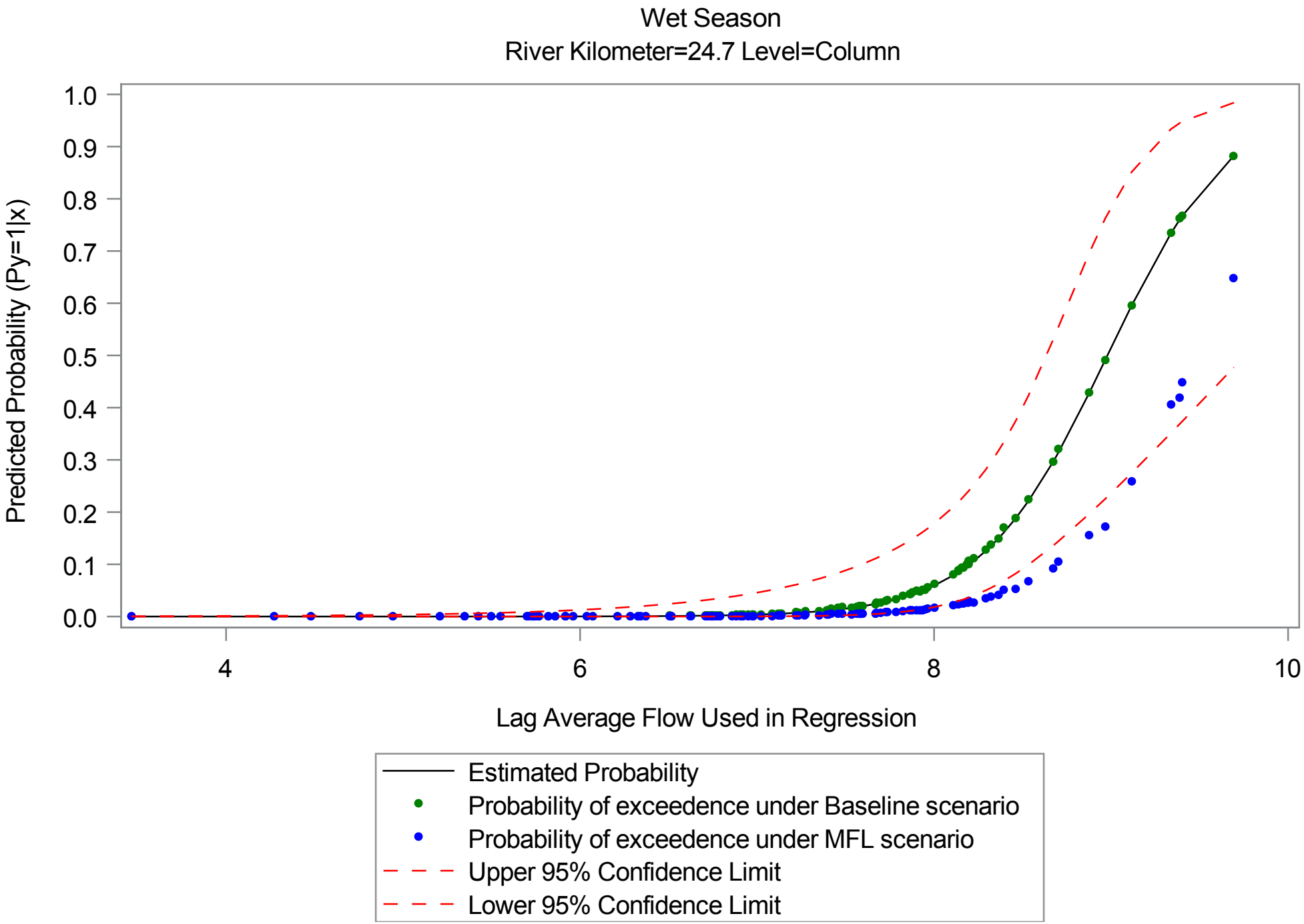

Wet Season
River Kilometer=21.9 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

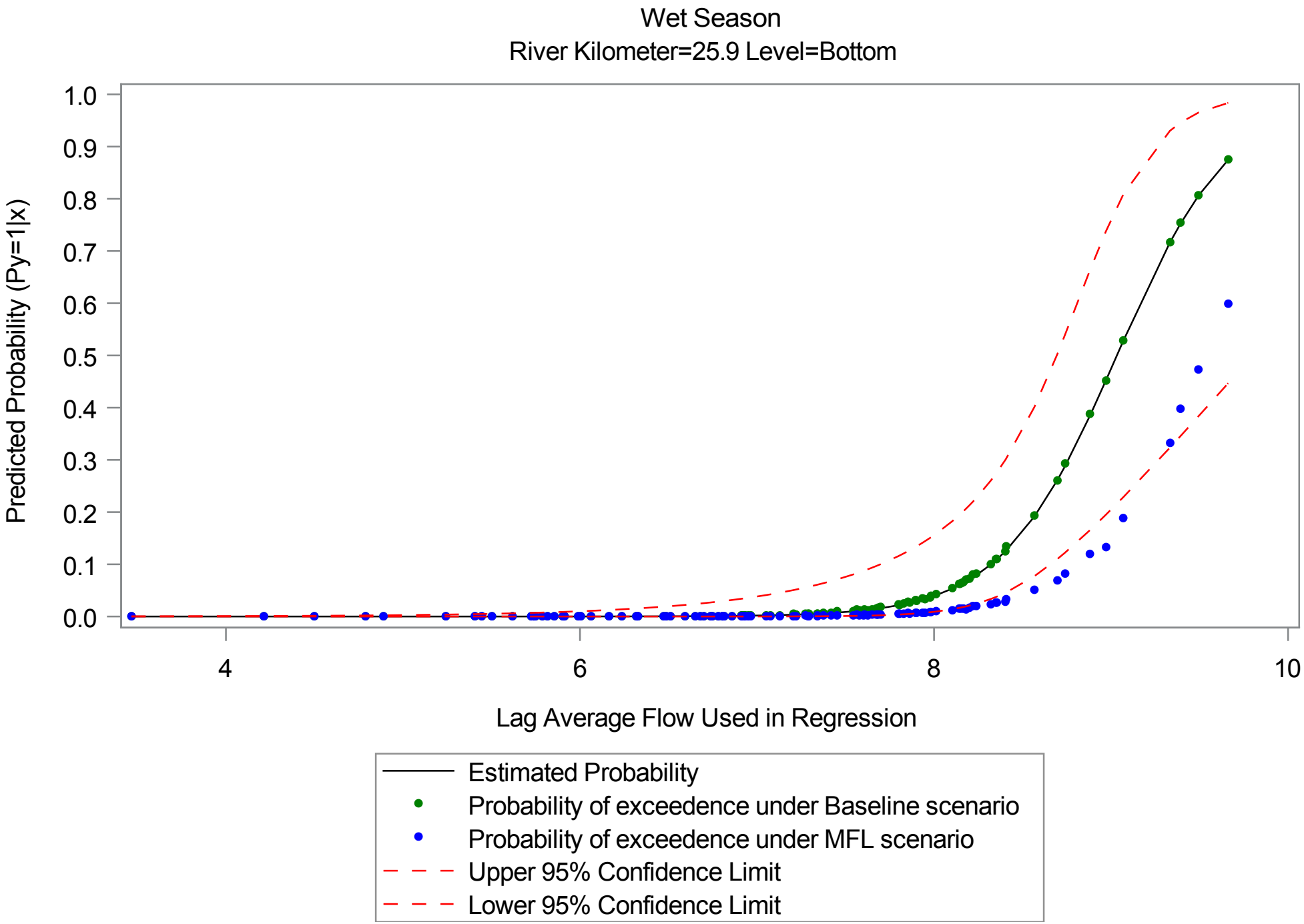

Wet Season
River Kilometer=21.9 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

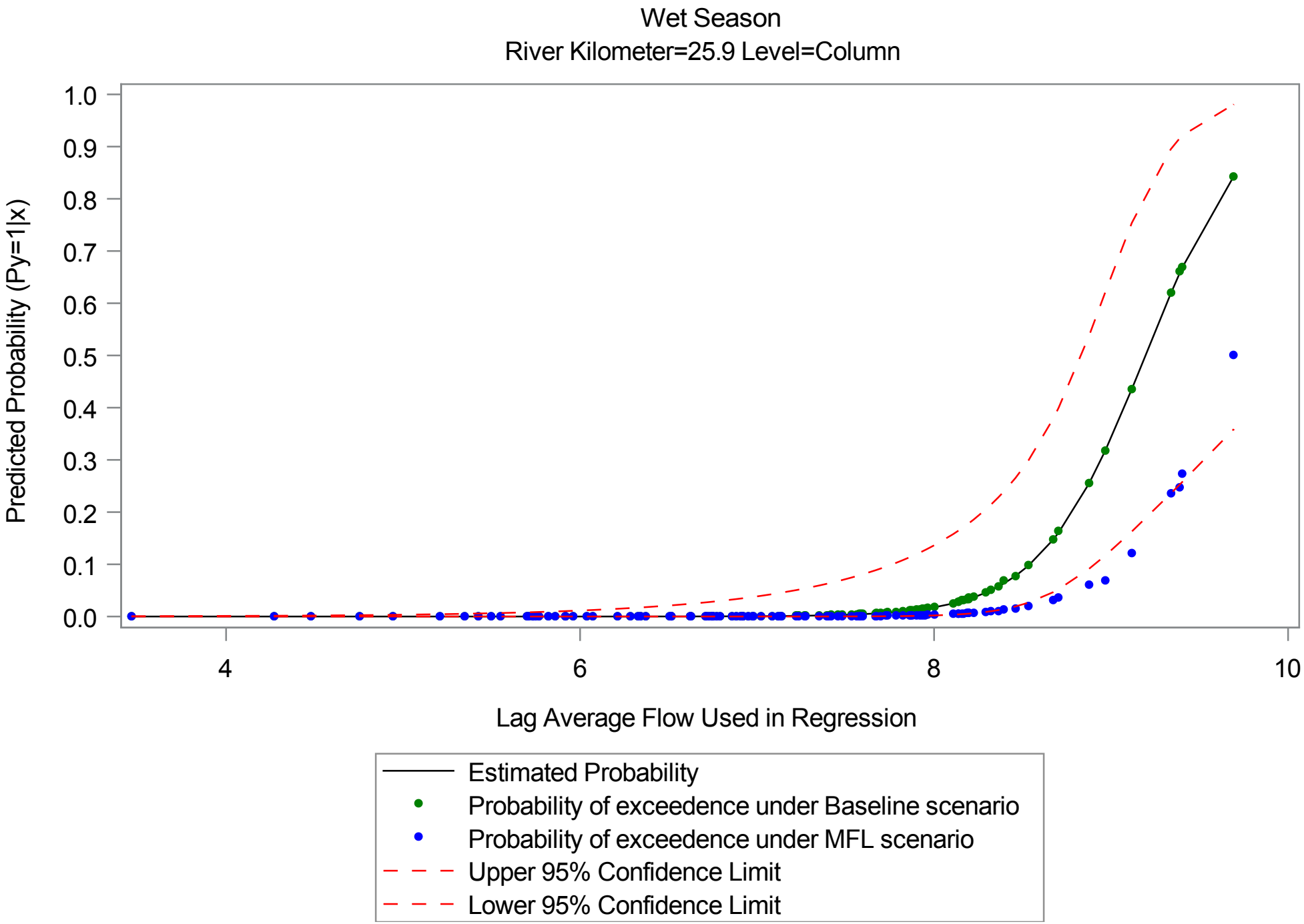

Wet Season
River Kilometer=23.6 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

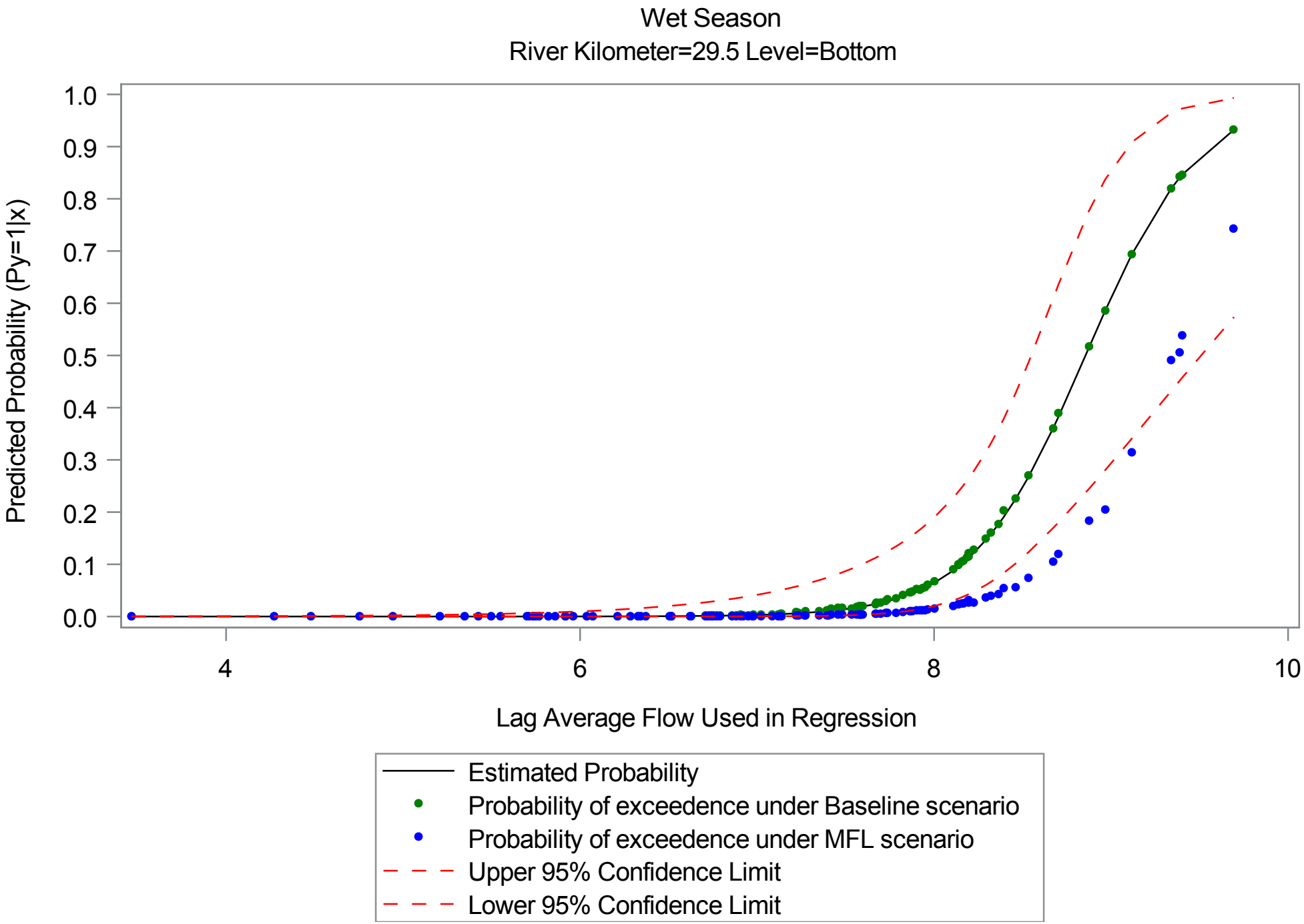

Wet Season
River Kilometer=23.6 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

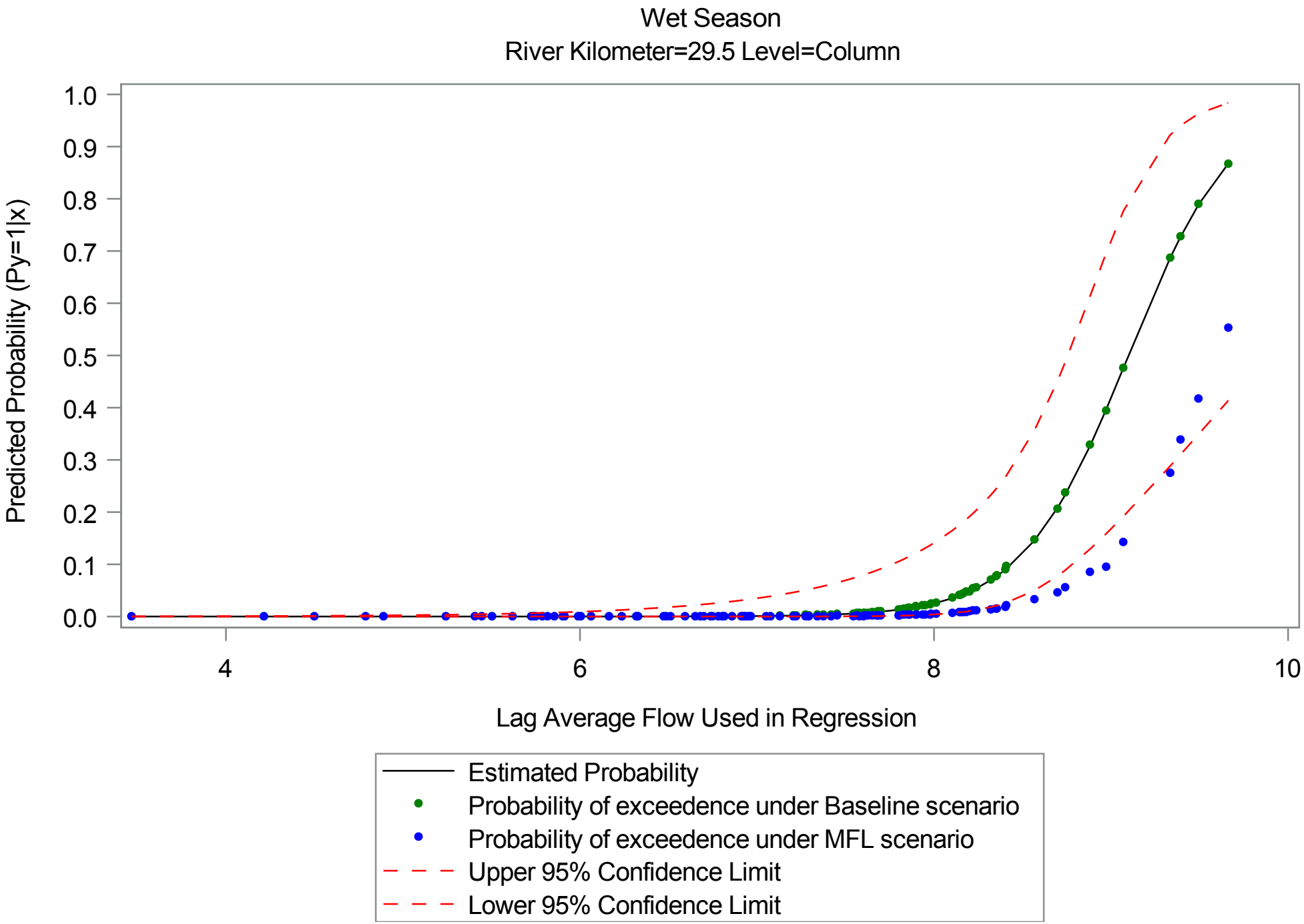

Wet Season
River Kilometer=24.7 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

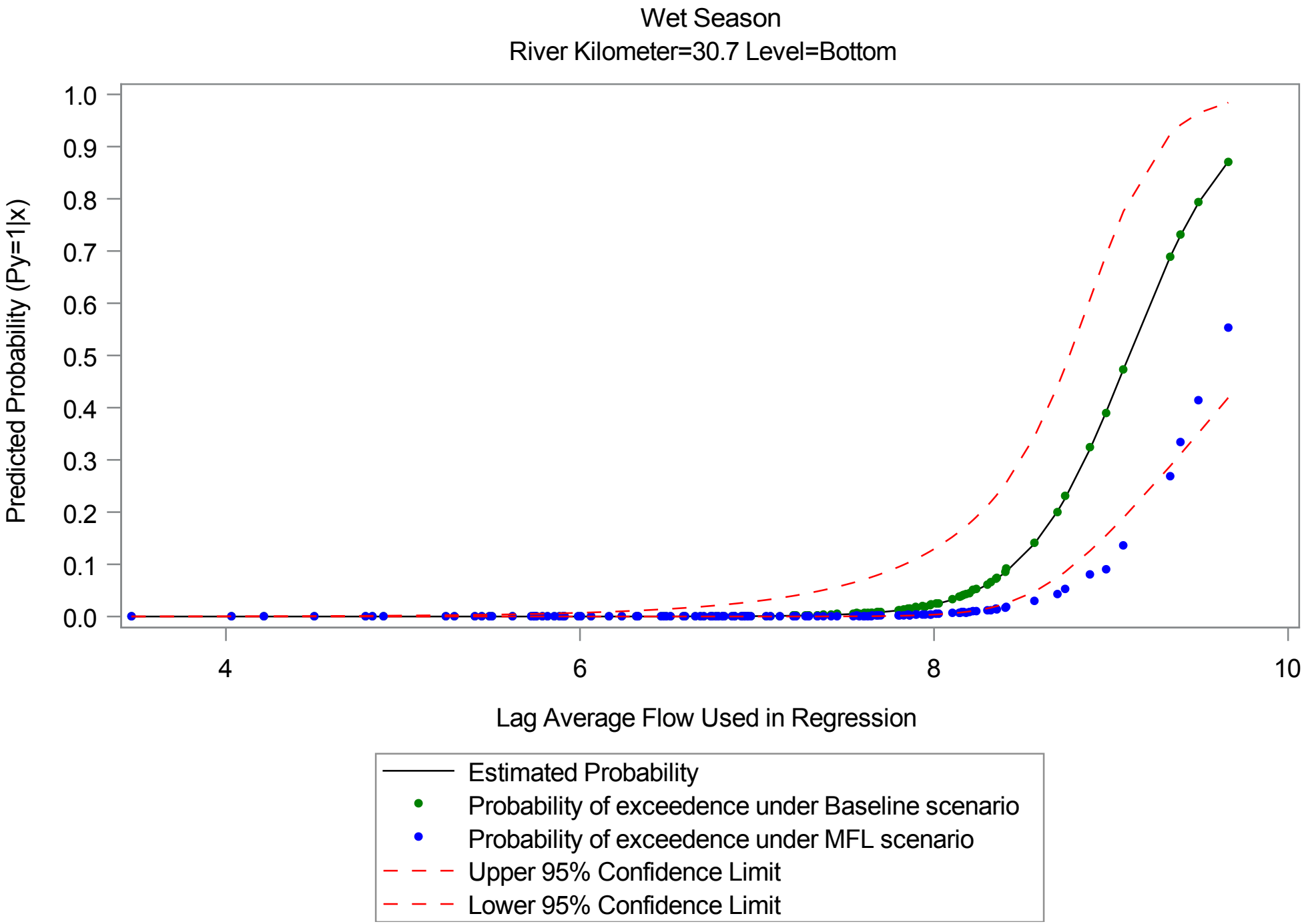

Wet Season
River Kilometer=24.7 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

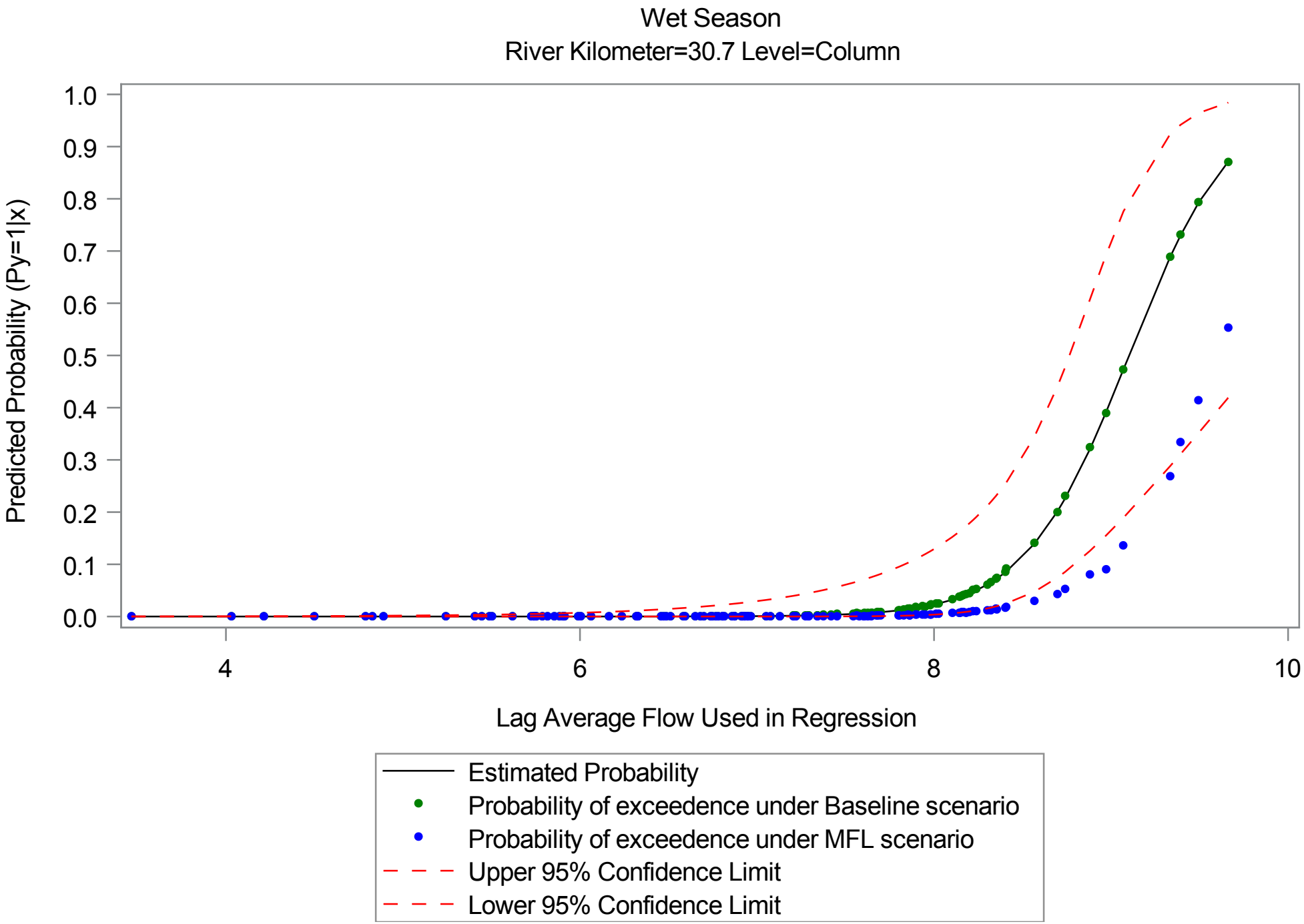

Wet Season
River Kilometer=25.9 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

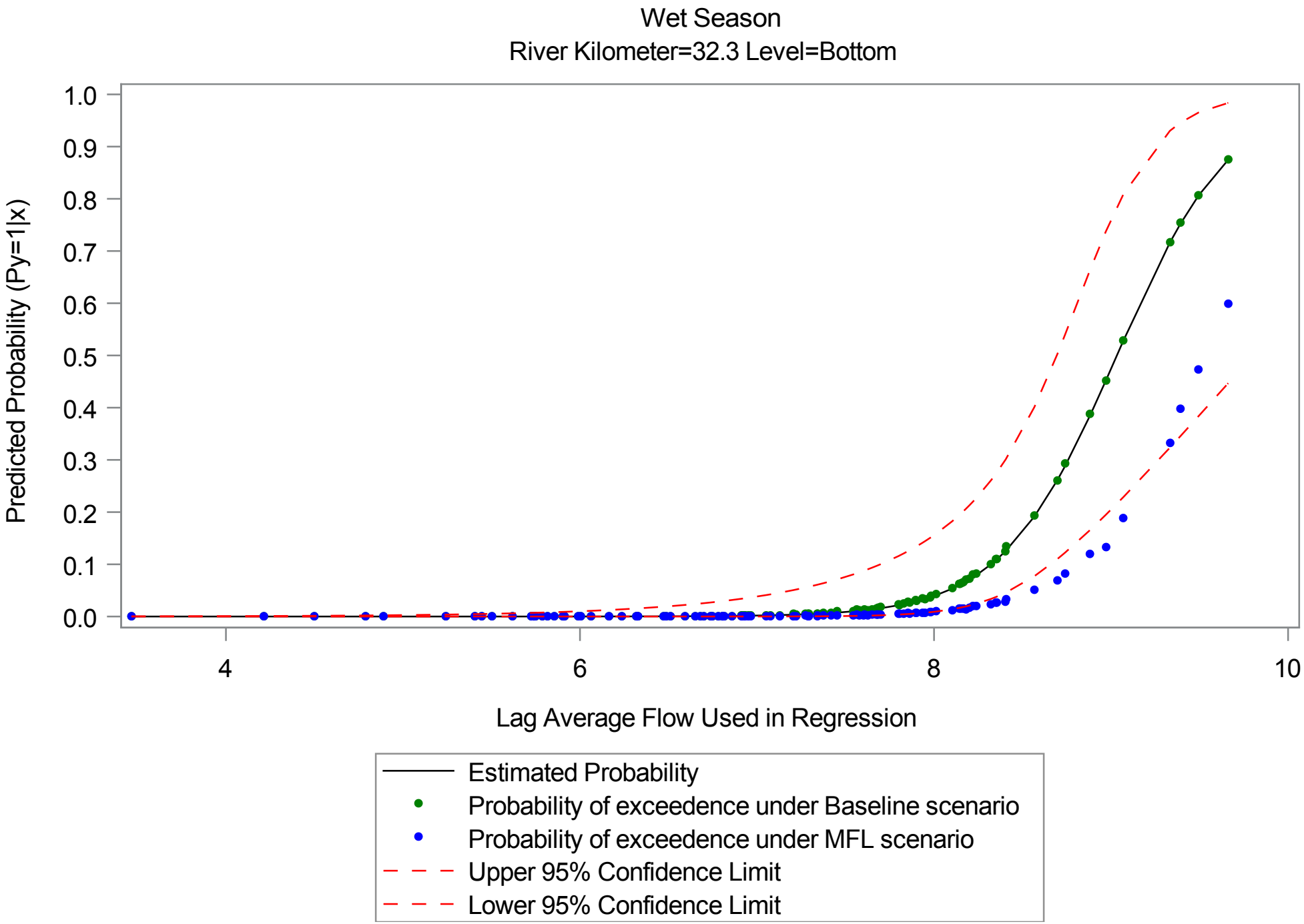

Wet Season
River Kilometer=25.9 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit

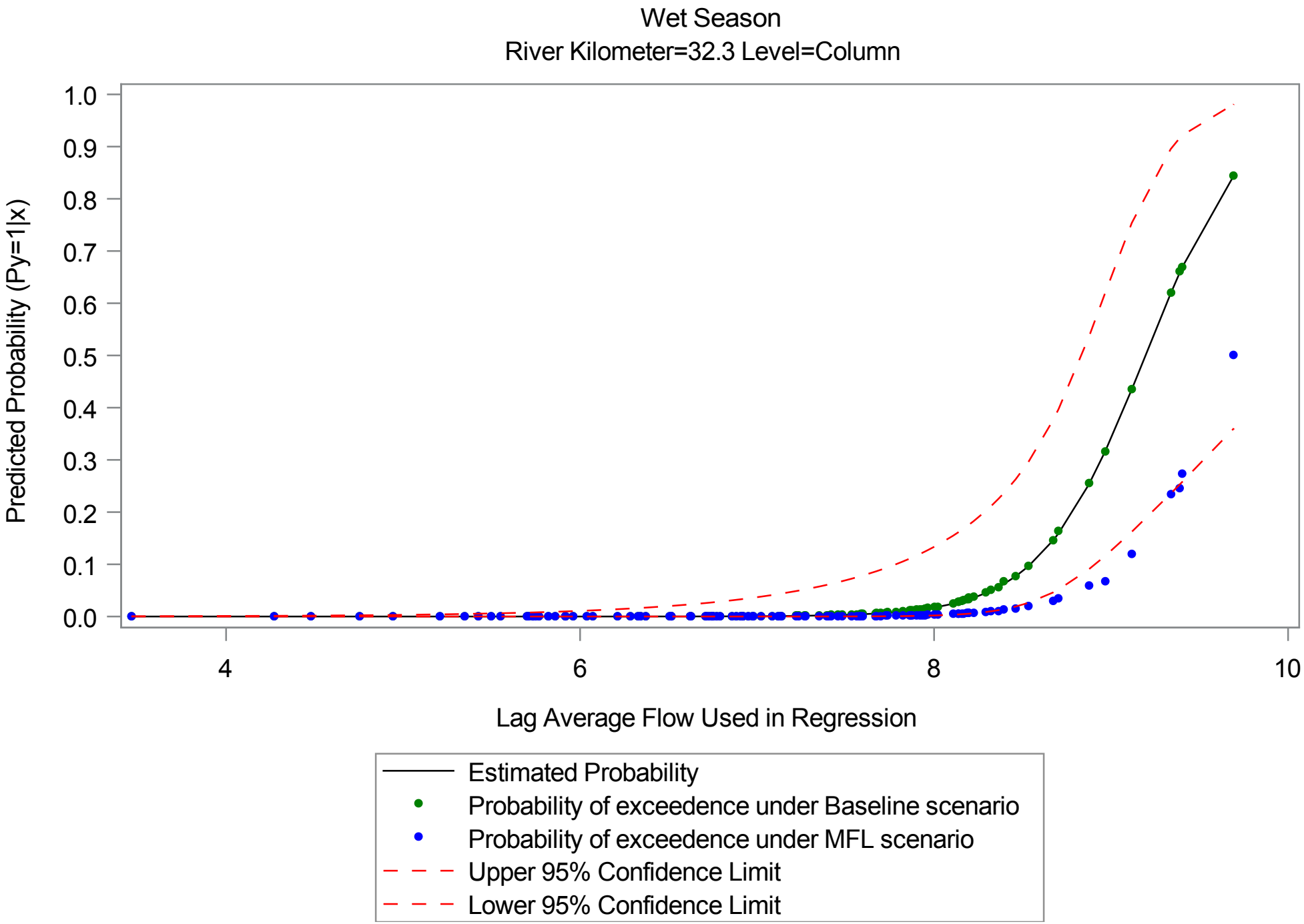

Wet Season
River Kilometer=29.5 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit


Wet Season
River Kilometer=29.5 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit


Wet Season
River Kilometer=30.7 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit


Wet Season
River Kilometer=30.7 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit


Wet Season
River Kilometer=32.3 Level=Bottom
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit


Wet Season
River Kilometer=32.3 Level=Column
Predicted Probability (Py=1|x)
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
4
6
8
10
Lag Average Flow Used in Regression
Estimated Probability
Probability of exceedence under Baseline scenario
Probability of exceedence under MFL scenario
Upper 95% Confidence Limit
Lower 95% Confidence Limit