

Hydrologic Conditions

for the month of

October 2010

Prepared by the
Hydrologic Data Section
Operations Department



November 16, 2010

<http://www.watermatters.org>

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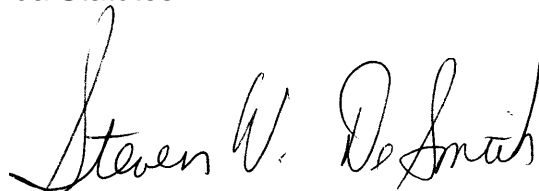
INTRODUCTION

The Hydrologic Conditions Report is generated monthly by the Hydrologic Data Section, Operations Department, of the Southwest Florida Water Management District. This report provides an end-of-month analytical summary of regional and temporal variations in the hydrologic conditions across the District's 16-county area for planning and regulatory purposes. In addition, it provides an excellent historical record for long-term local and regional hydrologic analysis.

The Hydrologic Data Section is responsible for the implementation and maintenance of a network of observation and monitoring stations used to track changes in various hydrologic parameters over time. Data collected are used by the regulatory, technical, and analytical sections of the District. Data recently collected and maintained by the section include: station and basin rainfall totals, stream and spring discharge measurements, and surface and ground water levels. Frequency of data collection ranges from hourly to monthly readings. All data collected are processed and analyzed, then uploaded into the Water Management Data Base for general access by the District. The Water Management Data Base is also periodically augmented from the United States Geological Survey's hydrologic data network.

The data presented in this report are monthly rainfall totals, streamflow, springflow, surface and ground water levels, reservoir levels and the Aquifer Resource Index. Associated maps of station locations are at the end of the report in the Appendices. Also reported herein are levels of public supply surface water reservoirs supplemented by various regional utilities. The data contained in this report was collected and analyzed in accordance with generally accepted procedures consistent with applicable scientific and technical standards of practice. The data presented are considered to be the best available at the time of publication and are subject to revision. Any questions about the significance, accuracy, or interpretation of these data should be referred to Granville Kinsman, Manager of the Hydrologic Data Section at (352) 796-7211 or (800) 423-1476, extension 4284.

The data evaluation, analyses and interpretation contained within this report have been prepared or approved by a certified Professional Geologist in accordance with Chapter 492, Florida Statutes.



Registration #PG-1704



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The Southwest Florida Water Management District (District) does not discriminate on the basis of disability. This nondiscrimination policy involves every aspect of the District's functions, including access to and participation in the District's programs and activities. Anyone requiring reasonable accommodation as provided for in the Americans with Disabilities Act should contact the District's Human Resources Director, 2379 Broad Street, Brooksville, Florida 34604-6899; telephone (352) 796-7211, ext. 4702 or 1-800-423-1476 (FL only), ext. 4702; TDD (FL only) 1-800-231-6103; or email to ADACoordinator@swfwmd.state.fl.us.

EXECUTIVE SUMMARY

Provisional Hydrologic Conditions as of November 9, 2010

Provisional rainfall totals are provided for the period of November 1, 2010 through November 8, 2010. The northern region has received an average of 1.18 inches, while the historic mean for the month of November is 1.98 inches. The central region has received an average of 1.43 inches, while the historic mean for the central region for November is 1.85 inches. The southern region has received an average of 2.65 inches, while the historic mean for the southern region for November is 1.80 inches.

Provisional lake level data indicate that during the first 9 days of November, regional water levels have decreased in the Northern, Tampa Bay and Lake Wales Ridge regions of the District, while they have increased in the Polk Uplands region. Average lake levels in the Northern region decreased an average of 0.15 foot and were 3.87 feet below the base of the normal range. Lake levels in the Tampa Bay region decreased an average of 0.17 foot and were 0.25 foot above the base of the normal range. Lake levels in the Polk Uplands region increased 0.12 foot and were 0.94 foot below the base of the normal range. The Lake Wales Ridge region posted an average decrease of 0.01 foot and was 3.82 feet below the base of the normal range.

As of November 8, 2010, average streamflow decreased in the northern and southern regions of the District, while it increased in the central region, compared to last month's data from regional index streams. The average streamflow for the Withlacoochee River near Holder in the northern region was below-normal at the 10th percentile. The average streamflow measured at the Hillsborough River near Zephyrhills in the central region was within the normal range at the 38th percentile, while the Peace River at Arcadia in the southern region was below-normal at the 21st percentile.

Provisional groundwater data, as of November 8, 2010, indicate that levels in the intermediate and Floridan aquifers were below-normal in the northern and southern regions of the District, while they were within the normal range in the central region. The normal range is defined as between the 25th and 75th percentiles. The groundwater level in the northern region was at the 15th percentile. The groundwater level in the central region was at the 29th percentile, while the southern region was at the 14th percentile.

EXECUTIVE SUMMARY

Hydrologic Conditions for October 2010

In October, average rainfall totals for all three regions of the District were below-normal. The normal range for rainfall is defined by totals that fall on or between the 25th to 75th percentiles of the historical monthly accumulation for each region and where the 50th percentile represents the historical median. The northern region received an average of 0.06 inch of rainfall, equivalent to the 1st percentile of the historical October record. The central region received an average of 0.09 inch of rainfall, equivalent to the 2nd percentile, while the southern region received an average of 0.10 inch of rainfall, equivalent to the 1st percentile of the historical October record. The District-wide rainfall average of 0.09 inch was equivalent to the 1st percentile of the historical October record. On a District-wide basis, rainfall data indicate that October 2010 was the driest October since records began in 1915.

During the 12-month period from November 1, 2009 through October 31, 2010, the average rainfall totals in all three regions of the District were classified as "normal." The northern region received an average of 53.08 inches of rainfall, equivalent to the 46th percentile of the historical annual record. The central region received an average of 52.42 inches of rainfall, equivalent to the 51st percentile, while the southern region received an average of 50.74 inches of rainfall, equivalent to the 42nd percentile. The District-wide rainfall average of 52.02 inches was equivalent to the 45th percentile of the historical annual record.

Average lake levels in October were below the annual normal range in the Northern, Polk Uplands and Lake Wales Ridge regions of the District, while they were within the normal range in the Tampa Bay region. Normal lake levels are defined as levels that fall between the minimum low management level and the minimum flood level. Lake levels in the northern region decreased by an average of 0.58 foot and were 3.72 feet below the base of the annual normal range. Lake levels in the Tampa Bay region decreased an average of 0.46 foot and were 0.42 foot above the base of the annual normal range. Lake levels in the Polk Uplands region decreased 0.37 foot and were 1.06 feet below the base of the annual normal range. Average lake levels in the Lake Wales Ridge region decreased 0.31 foot and ended the month 3.81 feet below the base of the annual normal range.

Total streamflow in regional index streams during October was below-normal in all three regions of the District. Normal streamflow is defined as falling between the 25th and 75th percentiles. Streamflow measured at the Withlacoochee River near Holder station in the northern region was in the 12th percentile. Streamflow in the Hillsborough River near Zephyrhills station in the central region was in the 22nd percentile, while total streamflow measured at the Peace River at Arcadia station in the southern region was in the 8th percentile during October.

In October, groundwater data showed that levels in the intermediate and Floridan aquifers decreased and ended the month below-normal in the northern and southern regions of the District and within the normal range in the central region. The normal range is defined as between the 25th and 75th percentiles. The groundwater level in the northern region was in the 21st percentile, while levels in the central and southern regions were in the 32nd and 10th percentiles, respectively.

REGIONAL OVERVIEW OF HYDROLOGIC CONDITIONS

OCTOBER 2010

Northern Region

In October, the northern region received an average of 0.06 inch of rainfall, equivalent to the 1st percentile of the historical October readings, which is considered "very dry." Average lake levels decreased in the northern region and ended the month an average of 3.72 feet below the base of the annual normal range. Total streamflow measured in the Withlacoochee River near Holder station decreased and was in the 12th percentile. Regional groundwater levels indicated average surficial aquifer water levels decreased and were in the 14th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 21st percentile.

Central Region

In October, the central region received an average of 0.09 inch of rainfall, equivalent to the 2nd percentile of historical October readings, which is considered "very dry." Average lake levels decreased in the Tampa Bay and Polk Uplands regions, ending the month 0.42 foot above and 1.06 feet below, respectively, the base of the annual range. Total streamflow measured at the Hillsborough River near Zephyrhills station decreased and was in the 22nd percentile. Regional groundwater levels indicated average surficial aquifer water levels decreased and were in the 46th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 32nd percentile.

Southern Region

In October, the southern region received an average of 0.10 inch of rainfall, equivalent to the 1st percentile of historical October readings, which is considered "very dry." Average lake levels decreased in the Lake Wales Ridge region and ended the month 3.81 feet below the base of the annual normal range. Total streamflow measured at the Peace River at Arcadia station decreased and was in the 8th percentile. Regional groundwater levels indicated average surficial aquifer water levels decreased and were in the 43rd percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 10th percentile.

RAINFALL

The rainfall data used for all tabulations in this report are provided to the District under contract with an external vendor. These data are created by enhancing contractor-developed NEXRAD radar rainfall imagery with hourly rainfall data collected from the District's network of real-time gauges. This process results in highly accurate cell-based rainfall data representative of conditions over the entire District, including those portions where rainfall data collection would otherwise be limited due to gaps in the gauging network.

As defined by the United States Geological Survey (USGS), a percentile is a value on a scale of one hundred that indicates the percent of a distribution that is equal to or below it. For example, a rainfall total equivalent to the 90th percentile is equal to or greater than 90 percent of the rainfall totals recorded for this month during all years that totals have been recorded.

Percentiles for rainfall were calculated from the historical record by region, and by specific interval. The "wet season" total is the sum of the rainfall from June through September. The "dry season" total is the sum of the rainfall from October through May. The annual total characterization was calculated from a dataset of moving 12-month rainfall sum for the same period (1915 through the most recent completed year). The moving 12-month rainfall sum was used for annual statistics because it provided a much larger dataset, and therefore a better estimate of the true percentiles. The historical 12-month cumulative average is updated monthly.

Characterization ranges were established for each region, and for the whole District, with breaks at the 10th (P10), the 25th (P25), the 75th (P75) and the 90th (P90) percentiles. The rainfall in inches for each percentile break, by rainfall interval and by region and the characterization ranges are summarized in the Appendix.

In October, rainfall totals were below-normal in all three regions of the District. The normal range for rainfall is defined by totals that fall on or between the 25th to 75th percentiles of the historical monthly average for each region and where the 50th percentile represents the historical median. The northern region received an average of 0.06 inch of rainfall, equivalent to the 1st percentile of the historical record. The central region received an average of 0.09 inch, equivalent to the 2nd percentile; while the southern region received an average of 0.10 inch, equivalent to the 1st percentile. District-wide, rainfall averaged 0.09 inch, which is equivalent to the 1st percentile of the historical October record. On a District-wide basis, rainfall data indicate that October 2010 was the driest October since records began in 1915.

During the 12-month period from November 1, 2009 through October 31, 2010, the average rainfall totals in all three regions of the District were classified as "normal." The northern region received an average of 53.08 inches of rainfall, equivalent to the 46th percentile of the historical record. The central region received an average of 52.42 inches of rainfall, equivalent to the 51st percentile. The southern region received an average of 50.74 inches of rainfall, equivalent to the 42nd percentile. The District-wide rainfall average was 52.02 inches, which is equivalent to the 45th percentile of the historical annual record.

Tampa Monthly Climate Summary for October 2010

According to the National Weather Service, the monthly average temperature (°F) for Tampa was 76.2 degrees, which was 0.4 degrees above normal. The highest temperature recorded during the month was 90 degrees, while the lowest temperature recorded during the month was 59 degrees.

Temperature and Precipitation Outlook

The Climate Prediction Center's (CPC) three-month weather forecast, as of October 21, 2010, indicates below-normal precipitation for all three regions of the District during the three-month period of December 2010 through January/February 2011. The temperature forecast for the three-month period indicates equal chances for below-normal, normal, or above-normal temperatures conditions. [Note: Due to the publication date of this report on November 16, 2010, the CPC's November 18, 2010 forecast was unavailable].

For more information log on to the CPC's website at:

http://www.cpc.ncep.noaa.gov/products/OUTLOOKS_index.html

RELATIONSHIP OF OCTOBER 2010 RAINFALL TO HISTORICAL RAINFALL AVERAGES

Regional Summary:

| <i>Region</i> | <i>OCT 2010 Average Rainfall</i> | <i>Historical Average for OCT</i> | <i>Departure from Historical Average</i> | <i>Calendar Year 2010 Cumulative Rainfall JAN-OCT</i> | <i>Calendar Year Historical Cumulative Rainfall JAN-OCT</i> | <i>Departure from Historical Cumulative OCT 2010</i> | <i>Cumulative 12-month Rainfall NOV 2009- OCT 2010</i> | <i>Historical 12-month Cumulative Rainfall</i> | <i>Departure from Historical 12-month Cumulative</i> |
|-----------------------|--|---|--|---|---|--|--|--|--|
| Northern Counties | 0.06 | 2.92 | -2.86 | 47.31 | 48.99 | -1.68 | 53.08 | 53.59 | -0.51 |
| Central Counties | 0.09 | 2.91 | -2.82 | 46.91 | 48.05 | -1.14 | 52.42 | 52.45 | -0.03 |
| Southern Counties | 0.10 | 3.14 | -3.04 | 44.67 | 48.68 | -4.01 | 50.74 | 52.45 | -1.71 |
| District All Counties | 0.09 | 2.99 | -2.90 | 46.24 | 48.52 | -2.28 | 52.02 | 52.72 | -0.70 |

Regional Counties Summary:

| <i>NORTHERN COUNTIES</i> | <i>OCT 2010 Average Rainfall</i> | <i>Historical Average for OCT</i> | <i>Departure from Historical Average</i> | <i>Calendar Year 2010 Cumulative Rainfall JAN-OCT</i> | <i>Calendar Year Historical Cumulative Rainfall JAN-OCT</i> | <i>Departure from Historical Cumulative OCT 2010</i> | <i>Cumulative 12-month Rainfall NOV 2009- OCT 2010</i> | <i>Historical 12-month Cumulative Rainfall</i> | <i>Departure from Historical 12-month Cumulative</i> |
|--------------------------|--|---|--|---|---|--|--|--|--|
| Levy County | 0.01 | 2.96 | -2.95 | 48.12 | 48.83 | -0.71 | 54.34 | 53.97 | 0.37 |
| Marion County | 0.01 | 3.02 | -3.01 | 50.88 | 49.46 | 1.42 | 56.95 | 54.33 | 2.62 |
| Citrus County | 0.12 | 2.87 | -2.75 | 50.48 | 49.46 | 1.02 | 56.16 | 54.03 | 2.13 |
| Sumter County | 0.09 | 2.89 | -2.80 | 43.27 | 47.63 | -4.36 | 49.04 | 52.06 | -3.02 |
| Hernando County | 0.02 | 2.96 | -2.94 | 44.21 | 50.43 | -6.22 | 49.61 | 55.00 | -5.39 |
| <i>CENTRAL COUNTIES</i> | | | | | | | | | |
| Pasco County | 0.05 | 2.99 | -2.94 | 49.08 | 49.52 | -0.44 | 54.84 | 53.96 | 0.88 |
| Pinellas County | 0.02 | 2.98 | -2.96 | 48.91 | 47.24 | 1.67 | 53.94 | 51.58 | 2.36 |
| Hillsborough County | 0.09 | 2.84 | -2.75 | 45.85 | 48.40 | -2.55 | 50.96 | 52.60 | -1.64 |
| Polk County | 0.12 | 2.88 | -2.76 | 46.19 | 48.13 | -1.94 | 51.94 | 52.05 | -0.11 |
| <i>SOUTHERN COUNTIES</i> | | | | | | | | | |
| Manatee County | 0.04 | 3.11 | -3.07 | 41.12 | 49.66 | -8.54 | 47.32 | 53.67 | -6.35 |
| Hardee County | 0.16 | 3.07 | -2.91 | 43.94 | 48.71 | -4.77 | 50.11 | 52.28 | -2.17 |
| Highlands County | 0.10 | 3.48 | -3.38 | 44.42 | 48.55 | -4.13 | 49.18 | 51.91 | -2.73 |
| Sarasota County | 0.03 | 3.29 | -3.26 | 44.18 | 48.85 | -4.67 | 51.31 | 52.76 | -1.45 |
| DeSoto County | 0.16 | 3.33 | -3.17 | 46.58 | 48.31 | -1.73 | 52.29 | 51.90 | 0.39 |
| Charlotte County | 0.10 | 3.42 | -3.32 | 49.91 | 48.79 | 1.12 | 55.72 | 52.30 | 3.42 |

OCTOBER 2010 RAINFALL CHARACTERIZATION

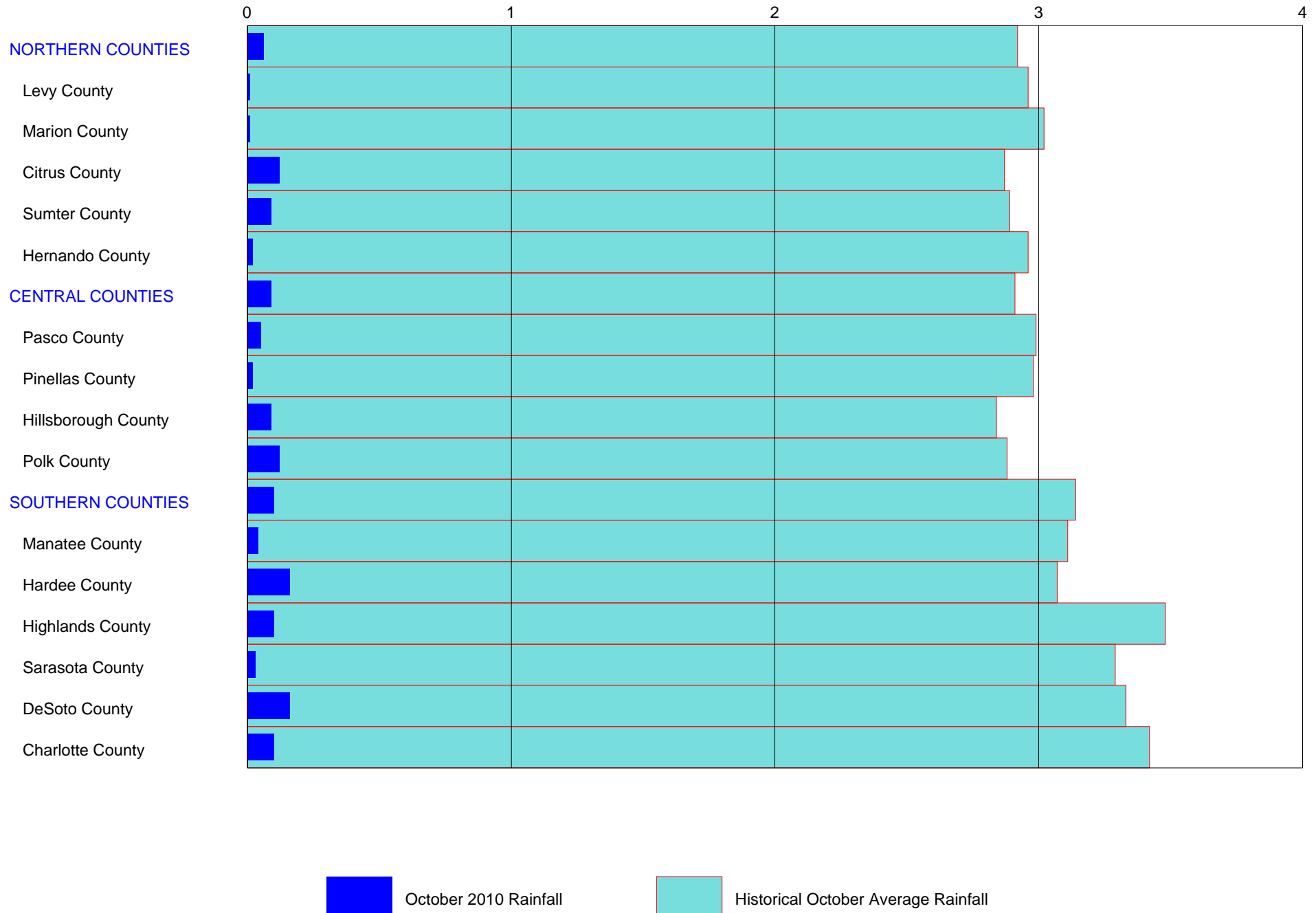
Regional Characterization:

| <i>Region</i> | <i>OCT 2010 Average Rainfall</i> | <i>Historical OCT Percentile</i> | <i>OCT Rainfall Characterization</i> | <i>Cumulative 12-month Rainfall NOV 2009- OCT 2010</i> | <i>Historical 12-month Cumulative Percentile</i> | <i>12-month Cumulative Rainfall Characterization</i> |
|-------------------|--|--|--|--|--|--|
| Northern Counties | 0.06 | 1 | Very dry | 53.08 | 46 | Normal |
| Central Counties | 0.09 | 2 | Very dry | 52.42 | 51 | Normal |
| Southern Counties | 0.10 | 1 | Very dry | 50.74 | 42 | Normal |
| District Counties | 0.09 | 1 | Very dry | 52.02 | 45 | Normal |

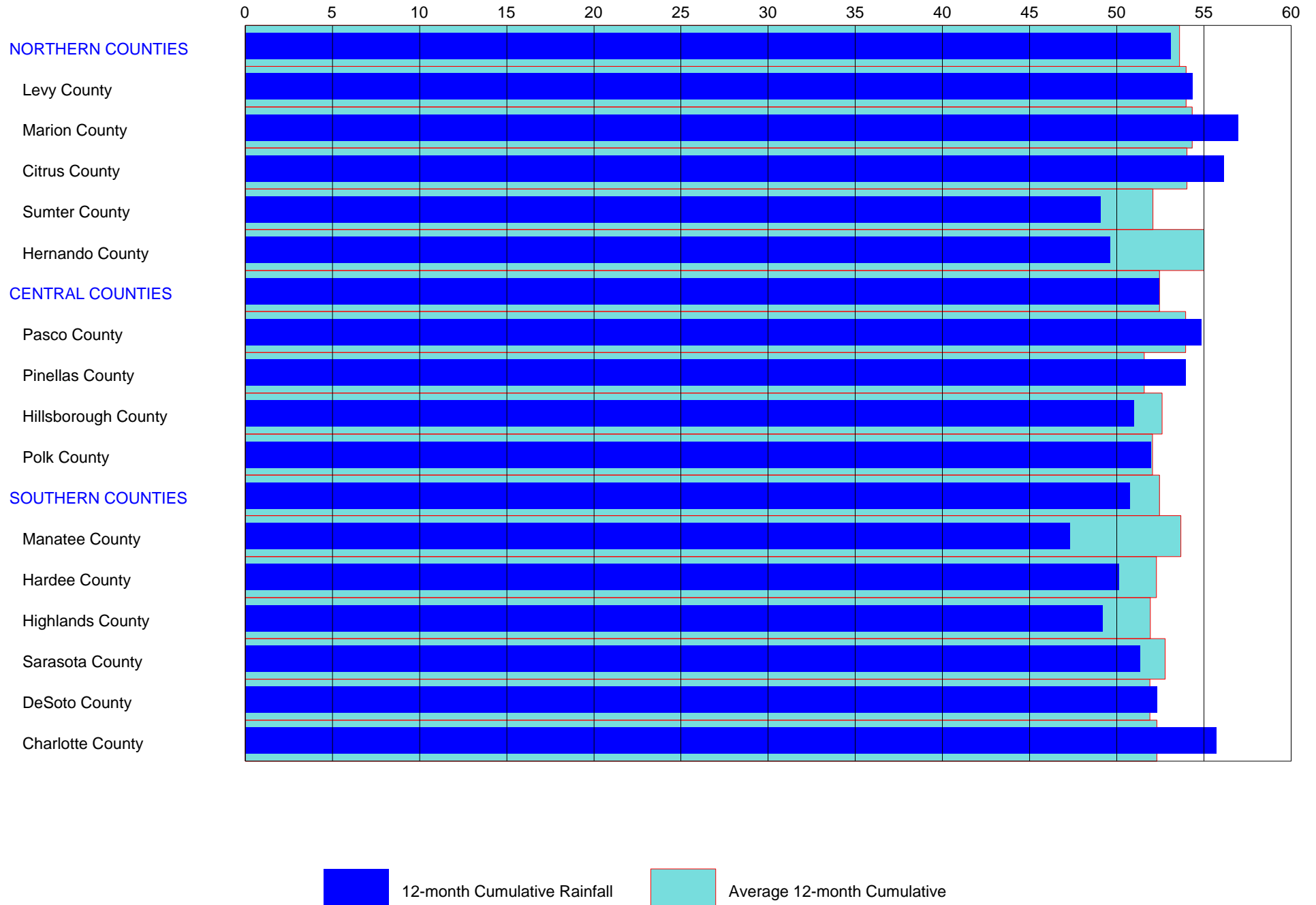
Regional Counties Characterization:

| <i>NORTHERN COUNTIES</i> | <i>OCT 2010 Average Rainfall</i> | <i>Historical OCT Percentile</i> | <i>OCT Rainfall Characterization</i> | <i>Cumulative 12-month Rainfall NOV 2009- OCT 2010</i> | <i>Historical 12-month Cumulative Percentile</i> | <i>12-month Cumulative Rainfall Characterization</i> |
|--------------------------|--|--|--|--|--|--|
| Levy County | 0.01 | 1 | Very dry | 54.34 | 55 | Normal |
| Marion County | 0.01 | 1 | Very dry | 56.95 | 62 | Normal |
| Citrus County | 0.12 | 3 | Very dry | 56.16 | 58 | Normal |
| Sumter County | 0.09 | 3 | Very dry | 49.04 | 35 | Normal |
| Hernando County | 0.02 | 1 | Very dry | 49.61 | 29 | Normal |
| <i>CENTRAL COUNTIES</i> | | | | | | |
| Pasco County | 0.05 | 1 | Very dry | 54.84 | 55 | Normal |
| Pinellas County | 0.02 | 1 | Very dry | 53.94 | 61 | Normal |
| Hillsborough County | 0.09 | 2 | Very dry | 50.96 | 44 | Normal |
| Polk County | 0.12 | 1 | Very dry | 51.94 | 49 | Normal |
| <i>SOUTHERN COUNTIES</i> | | | | | | |
| Manatee County | 0.04 | 2 | Very dry | 47.32 | 27 | Normal |
| Hardee County | 0.16 | 2 | Very dry | 50.11 | 41 | Normal |
| Highlands County | 0.10 | 1 | Very dry | 49.18 | 39 | Normal |
| Sarasota County | 0.03 | 2 | Very dry | 51.31 | 46 | Normal |
| DeSoto County | 0.16 | 2 | Very dry | 52.29 | 51 | Normal |
| Charlotte County | 0.10 | 3 | Very dry | 55.72 | 66 | Normal |

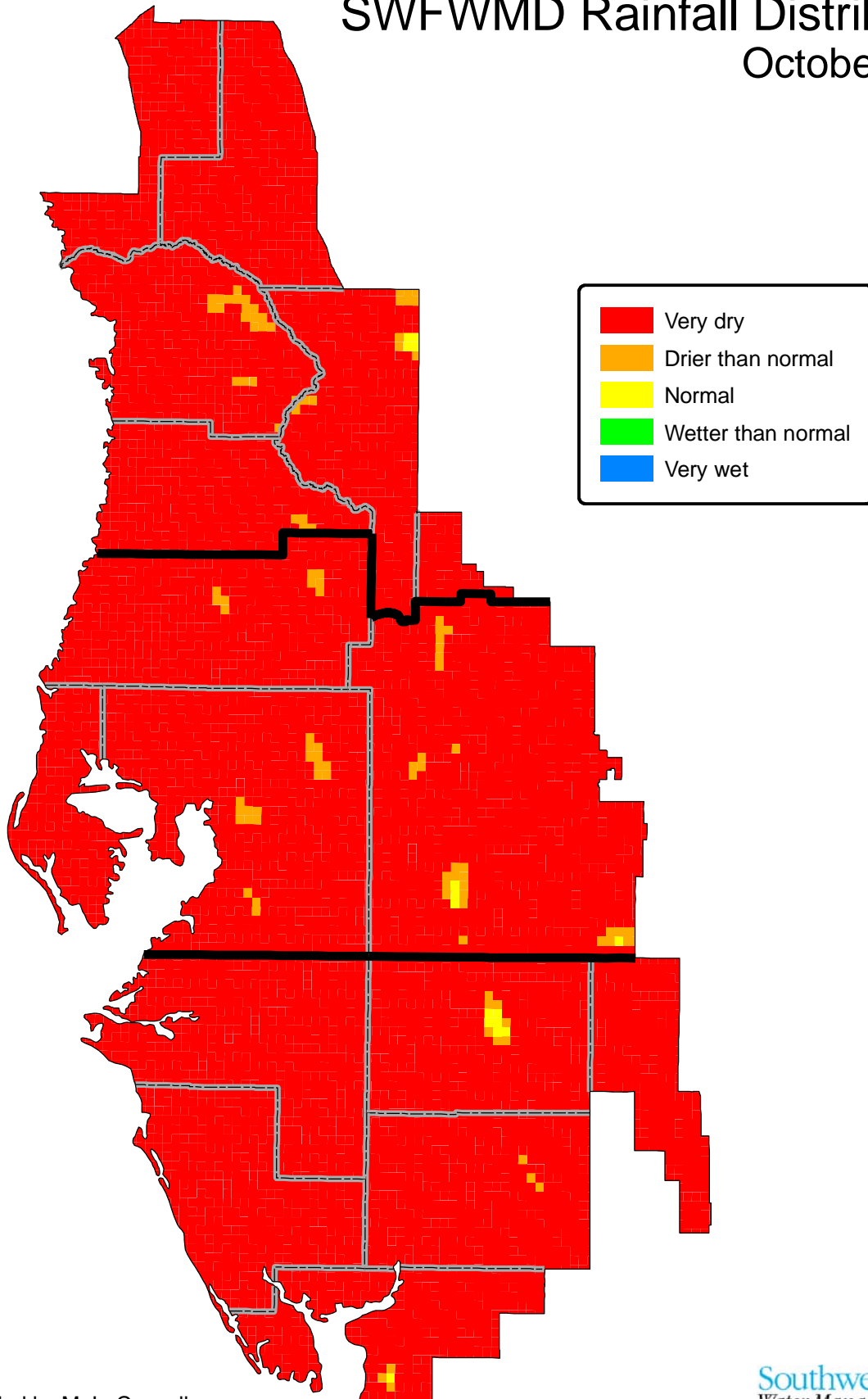
OCTOBER 2010 RAINFALL HISTORIC AVERAGE VS HISTORICAL OCTOBER AVERAGE (INCHES)



OCTOBER 2010 12-MONTH CUMULATIVE RAINFALL VS AVERAGE ANNUAL CUMULATIVE (INCHES)



SWFWMD Rainfall Distribution October 2010

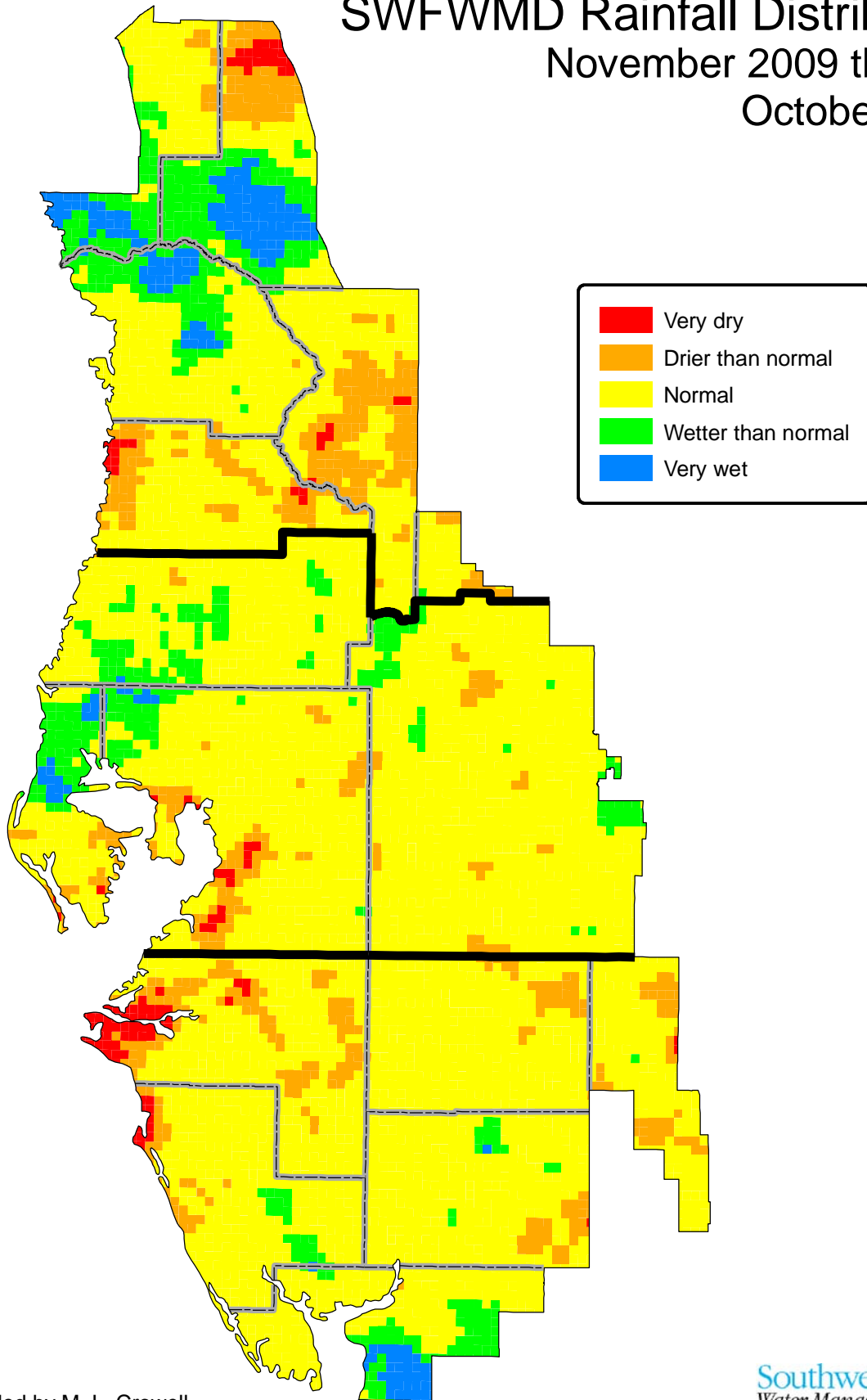


Compiled by M. L. Crowell
Data source: Vieux, Inc.

Southwest Florida
Water Management District

SWFWMD Rainfall Distribution

November 2009 through
October 2010



Compiled by M. L. Crowell
Data source: Vieux, Inc.

Southwest Florida
Water Management District

SURFACE WATER

Lakes

Across the District, 76 lakes have been selected as excellent indicators of current surface water conditions (see index map in Appendix). Water levels of these lakes are read monthly. In general, these lakes are concentrated in four regions, the northern region of Citrus, Hernando, and Sumter Counties, the Tampa Bay region of Hillsborough and Pasco Counties, the Polk Uplands region of northern Polk County, and the Lake Wales Ridge region of Polk and Highlands Counties. In this report, current monthly lake levels are tabulated and compared with previous records as well as District-established management levels. In addition, lake-level data representative of the four regions are presented in hydrographs showing a 15-year history of water levels, as a general indicator of surface-water conditions in that region.

The District's Governing Board (the Board) has established lake management levels for approximately 410 lakes within District boundaries, which are specified in Chapter 40D-8, Florida Administrative Code (F.A.C.). Management levels help protect the water resources of the District and the ecology of the lake or water-body for which it was established. In this report, the following three management levels are used to indicate normal and low lake levels: the Minimum Flood (MF) level, the Minimum Low Management (MLM) level, and the Minimum Extreme Low Management (MELM) level. In general, the MF level corresponds to the normal high level, the MLM to the normal low level, and the MELM to a drought-year low. These levels were derived from various sources, including technical publications, topographic maps, Water Resource Data Reports of the USGS, and other studies. Field investigations are also used to determine past surface levels from water marks, wetland vegetation, dry land vegetation, and to establish the elevation of septic tanks, docks, sea walls, roads and floor slabs.

During a normal year, each of the indicator lakes should reach both the designated normal high (MF) and the normal low (MLM) levels. In addition, it is generally beneficial for lakes to reach the adopted drought year low (MELM) level every four to six years for a short period of time for the biological health of the lake. In this report, hydrographs of representative lakes compare current and recent water levels against “**normal ranges**” defined by the adopted MF and MLM levels.

Of the 76 lakes presented in this report, 17 have water-control structures. These structures are used for water conservation and do not generally influence the water levels with regard to meteorologically wet or dry conditions. During periods of extreme high water, the structures may be operated to minimize flooding.

In October, all 76 lakes monitored for this report recorded water level decreases. Water levels decreased in the Northern, Tampa Bay, Polk Uplands and Lake Wales Ridge regions by 0.58, 0.46, 0.37 and 0.31 foot, respectively. District-wide, average water levels decreased by 0.44 foot, compared to last month.

In October, average water levels were higher in 48 of the 76 lakes, compared to October 2009. In the Northern, Tampa Bay, Polk Uplands, and Lake Wales Ridge regions, the average regional lake level was higher by 0.17 foot, 0.66 foot, 1.04 feet and 0.55 foot, respectively, compared to last year's levels. District-wide, average lake levels were higher by 0.64 foot.

Water levels in 40 of the 76 lakes were above the base of the annual normal range. Average lake levels in the Northern, Polk Uplands, and Lake Wales Ridge regions were 3.72, 1.06 and 3.81 feet, respectively, below the base of the annual normal range. Water levels in the Tampa Bay region were 0.42 foot above the base of the annual normal range. District-wide, average lake levels were 1.27 feet below the base of the annual normal range. Water levels in 51 of the 76 lakes were above the drought-year levels.

SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

| NORTHERN LAKES | | | | | | | | | | | | | | | |
|--------------------|----------|---------------------|----------|----------|----------|----------------------|----------------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-----------------|-----------------------|------------------|
| Lake Name | County | Beginning of Record | SEP 2010 | OCT 2010 | OCT 2009 | Change from SEP 2010 | Change from OCT 2009 | Diff from MELM | (MELM) Drought Year Low | (MLM) Normal Year Low | (MF) Normal Year High | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
| Big Fish Lake | Pasco | 1980 | 69.28 | 68.42 | 69.24 | -0.86 | -0.82 | -3.33 | 71.75 | 73.05 | 76.05 | 65.45 | JUN 1997 | 77.40 | SEP 2004 |
| Crews Lake | Pasco | 1964 | 47.64 | 47.04 | 48.60 | -0.60 | -1.56 | -2.96 | 50.00 | 52.00 | 55.00 | 42.63 | APR 2001 | 56.60 | SEP 1964 |
| Hancock Lake | Pasco | 1978 | 95.38 | 94.74 | 92.24 | -0.64 | 2.50 | -7.26 | 102.00 | 104.00 | 106.50 | 90.00 | MAR 2009 | 108.90 | MAR 1998 |
| Hunters Lake | Hernando | 1965 | 15.15 | 14.87 | 13.72 | -0.28 | 1.15 | -1.13 | 16.00 | 17.50 | 20.50 | 11.70 | JUN 2001 | 20.50 | MAR 1970 |
| Lake Iola | Pasco | 1965 | 132.53 | 131.98 | 133.00 | -0.55 | -1.02 | -10.52 | 142.50 | 145.00 | 147.50 | 131.98 | OCT 2010 | 148.70 | JAN 1989 |
| Lake Lindsey | Hernando | 1965 | 62.56 | 61.99 | 62.86 | -0.57 | -0.87 | -2.51 | 64.50 | 66.00 | 69.00 | 61.57 | MAY 2009 | 70.14 | AUG 1965 |
| Little Lake (Consu | Citrus | 1975 | 36.38 | 35.90 | 36.71 | -0.48 | -0.81 | -1.35 | 37.25 | 39.00 | 41.50 | 31.10 | MAY 2001 | 42.84 | SEP 2004 |
| Lake Miona | Sumter | 1978 | 51.15 | 50.75 | 51.17 | -0.40 | -0.42 | -0.25 | 51.00 | 53.00 | 55.00 | 47.88 | MAY 2002 | 56.60 | OCT 1982 |
| Moon Lake | Pasco | 1990 | 37.92 | 37.56 | 34.95 | -0.36 | 2.61 | 2.06 | 35.50 | 37.50 | 40.50 | 32.98 | APR 2009 | 41.26 | SEP 2004 |
| Lake Panasoffkee | Sumter | 1955 | 38.87 | 38.12 | 39.16 | -0.75 | -1.04 | -0.38 | 38.50 | 39.50 | 42.50 | 36.93 | JUN 2002 | 44.28 | APR 1960 |
| Lake Pasadena | Pasco | 1984 | 85.66 | 85.18 | 83.38 | -0.48 | 1.80 | -4.82 | 90.00 | 91.50 | 94.50 | 81.56 | MAY 2001 | 94.86 | OCT 2004 |
| Spring Lake | Hernando | 1965 | 178.36 | 177.78 | 177.48 | -0.58 | 0.30 | -0.47 | 178.25 | 181.25 | 184.25 | 174.75 | APR 2009 | 183.57 | OCT 1984 |
| Floral City Pool | Citrus | 1957 | 39.56 | 38.57 | 39.59 | -0.99 | -1.02 | 0.32 | 38.25 | 40.25 | 42.50 | 30.29 | APR 2008 | 44.22 | MAR 1960 |
| Inverness Pool | Citrus | 1957 | 39.05 | 38.40 | 37.93 | -0.65 | 0.47 | 2.15 | 36.25 | 38.25 | 40.50 | 31.56 | MAY 2001 | 42.94 | APR 1960 |
| Hernando Pool | Citrus | 1936 | 37.95 | 37.38 | 36.15 | -0.57 | 1.23 | 2.63 | 34.75 | 36.75 | 39.00 | 30.92 | JUL 1957 | 41.74 | APR 1960 |

| TAMPA BAY LAKES | | | | | | | | | | | | | | | |
|-------------------|--------------|---------------------|----------|----------|----------|----------------------|----------------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-----------------|-----------------------|------------------|
| Lake Name | County | Beginning of Record | SEP 2010 | OCT 2010 | OCT 2009 | Change from SEP 2010 | Change from OCT 2009 | Diff from MELM | (MELM) Drought Year Low | (MLM) Normal Year Low | (MF) Normal Year High | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
| Lake Alice | Hillsborough | 1971 | 40.96 | 40.36 | 38.45 | -0.60 | 1.91 | 2.86 | 37.50 | 40.25 | 42.25 | 33.24 | MAY 2002 | 42.42 | SEP 2004 |
| Lake Ann-Parker | Pasco | 1969 | 47.88 | 47.32 | 46.54 | -0.56 | 0.78 | 2.32 | 45.00 | 45.75 | 48.75 | 43.28 | JUN 2001 | 49.29 | SEP 1979 |
| Bay Lake | Hillsborough | 1982 | 45.52 | 44.92 | 45.45 | -0.60 | -0.53 | 2.42 | 42.50 | 44.00 | 46.75 | 41.86 | APR 1985 | 46.46 | DEC 1997 |
| Lake Brant | Hillsborough | 1971 | 57.57 | 57.07 | 56.64 | -0.50 | 0.43 | 2.57 | 54.50 | 56.50 | 58.75 | 51.65 | JUN 1994 | 60.04 | AUG 1979 |
| Brooker Lake | Hillsborough | 1977 | 62.50 | 62.36 | 62.52 | -0.14 | -0.16 | 3.36 | 59.00 | 61.00 | 64.25 | 56.49 | MAY 2002 | 64.08 | DEC 1997 |
| Calm Lake | Hillsborough | 1965 | 49.88 | 49.42 | 47.09 | -0.46 | 2.33 | 4.42 | 45.00 | 47.50 | 50.50 | 41.88 | JUN 2002 | 50.73 | SEP 2004 |
| Camp Lake | Pasco | 1968 | 63.02 | 62.58 | 61.27 | -0.44 | 1.31 | 3.58 | 59.00 | 61.75 | 64.00 | 50.82 | MAY 2002 | 64.00 | SEP 1979 |
| Carlton Lake | Hillsborough | 1976 | 91.74 | 91.03 | 91.08 | -0.71 | -0.05 | 3.03 | 88.00 | 90.50 | 93.50 | 86.82 | MAY 2001 | 94.60 | FEB 1998 |
| Lake Carroll | Hillsborough | 1946 | 35.32 | 34.69 | 34.87 | -0.63 | -0.18 | 2.19 | 32.50 | 34.50 | 37.00 | 30.87 | MAY 2002 | 40.08 | SEP 1947 |
| Church Lake | Hillsborough | 1957 | 35.78 | 35.32 | 34.80 | -0.46 | 0.52 | 3.82 | 31.50 | 34.00 | 36.25 | 27.94 | MAY 2002 | 37.28 | AUG 1959 |
| Lake Cooper | Hillsborough | 1946 | 60.21 | 59.81 | 59.30 | -0.40 | 0.51 | 2.81 | 57.00 | 59.75 | 61.75 | 55.60 | JUN 2001 | 62.54 | SEP 1947 |
| Crescent Lake | Hillsborough | 1981 | 41.89 | 41.70 | 42.20 | -0.19 | -0.50 | 3.20 | 38.50 | 40.00 | 42.50 | 35.34 | JUN 2001 | 42.48 | SEP 2009 |
| Deer Lake | Hillsborough | 1977 | 65.46 | 65.17 | 63.42 | -0.29 | 1.75 | 2.67 | 62.50 | 64.50 | 67.25 | 60.72 | MAY 2002 | 67.42 | DEC 1997 |
| Egypt Lake | Hillsborough | 1978 | 36.44 | 35.84 | 36.44 | -0.60 | -0.60 | 3.34 | 32.50 | 35.00 | 37.50 | 33.06 | MAY 2000 | 38.15 | SEP 1985 |
| Gornto Lake | Hillsborough | 1979 | 37.08 | 36.48 | 35.81 | -0.60 | 0.67 | 2.48 | 34.00 | 36.00 | 38.50 | 29.86 | MAR 1979 | 39.48 | FEB 1998 |
| Lake Harvey | Hillsborough | 1970 | 61.12 | 60.79 | 60.94 | -0.33 | -0.15 | 2.79 | 58.00 | 60.25 | 62.50 | 53.94 | MAY 2002 | 63.90 | DEC 1997 |
| Lake Hiawatha | Hillsborough | 1981 | 49.89 | 49.34 | 50.01 | -0.55 | -0.67 | 4.34 | 45.00 | 48.00 | 50.50 | 46.14 | JUN 2000 | 51.12 | APR 2010 |
| Horse Lake | Hillsborough | 1930 | 45.33 | 44.64 | 42.64 | -0.69 | 2.00 | 2.64 | 42.00 | 44.00 | 46.50 | 36.33 | JUN 2002 | 50.00 | AUG 1959 |
| Lake Keene | Hillsborough | 1948 | 61.95 | 61.62 | 61.64 | -0.33 | -0.02 | 2.62 | 59.00 | 60.50 | 63.00 | 56.12 | JUN 2002 | 63.30 | SEP 1953 |
| Keystone Lake | Hillsborough | 1946 | 41.39 | 40.93 | 41.45 | -0.46 | -0.52 | 1.93 | 39.00 | 39.75 | 42.00 | 37.84 | JUN 2000 | 43.55 | MAR 1960 |
| King Lake | Pasco | 1977 | 97.25 | 97.12 | 95.56 | -0.13 | 1.56 | -2.88 | 100.00 | 102.50 | 105.25 | 94.20 | APR 2009 | 104.92 | SEP 1983 |
| Lake Leclare | Hillsborough | 1977 | 51.18 | 50.63 | 49.24 | -0.55 | 1.39 | 3.63 | 47.00 | 49.50 | 52.00 | 44.95 | JUN 2001 | 52.34 | DEC 1997 |
| Lake Linda | Pasco | 1969 | 65.56 | 65.23 | 64.32 | -0.33 | 0.91 | 3.23 | 62.00 | 64.00 | 66.75 | 60.07 | MAY 2001 | 67.13 | AUG 1979 |
| Little Lake | Hillsborough | 1979 | 45.52 | 45.14 | 45.40 | -0.38 | -0.26 | 3.14 | 42.00 | 43.50 | 46.50 | 38.06 | JUN 1994 | 46.44 | FEB 1998 |
| Long Pond | Hillsborough | 1978 | 45.25 | 44.88 | 42.52 | -0.37 | 2.36 | 2.88 | 42.00 | 44.00 | 46.50 | 36.33 | MAY 1979 | 48.27 | SEP 1998 |
| Mud (Walden) Lake | Hillsborough | 1978 | 112.74 | 112.43 | 112.83 | -0.31 | -0.40 | 1.93 | 110.50 | 112.50 | 115.00 | 111.90 | APR 2009 | 114.42 | MAR 1978 |
| Lake Padgett | Pasco | 1965 | 69.55 | 69.03 | 69.00 | -0.52 | 0.03 | 1.53 | 67.50 | 69.00 | 71.25 | 66.27 | JUN 2001 | 71.90 | SEP 1988 |
| Platt Lake | Hillsborough | 1946 | 48.82 | 48.28 | 48.38 | -0.54 | -0.10 | 2.28 | 46.00 | 47.75 | 50.50 | 42.53 | JUN 2001 | 51.88 | SEP 1979 |
| Rainbow Lake | Hillsborough | 1971 | 38.27 | 37.71 | 35.24 | -0.56 | 2.47 | 2.71 | 35.00 | 37.50 | 40.50 | 29.82 | JUN 2002 | 40.74 | AUG 2003 |
| Lake Stemper | Hillsborough | 1946 | 61.00 | 60.38 | 57.84 | -0.62 | 2.54 | 2.38 | 58.00 | 59.50 | 62.00 | 53.36 | JUN 2001 | 62.30 | MAR 1960 |
| Lake Thomas | Hillsborough | 1971 | 62.80 | 62.44 | 62.16 | -0.36 | 0.28 | 3.19 | 59.25 | 61.25 | 63.50 | 56.48 | JUN 2002 | 64.48 | SEP 1979 |
| Turkey Ford Lake | Hillsborough | 1970 | 50.96 | 50.56 | 51.08 | -0.40 | -0.52 | 0.56 | 50.00 | 51.50 | 54.00 | 48.07 | JUN 1985 | 55.28 | SEP 1988 |
| Lake Wimauma | Hillsborough | 1985 | 78.38 | 77.78 | 75.13 | -0.60 | 2.65 | -3.22 | 81.00 | 83.00 | 86.75 | 70.12 | MAY 2001 | 84.38 | MAR 1998 |

NOTE: M='no data' or 'not determined'

SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

| POLK UPLANDS LAKES | | | | | | | | | | | | | | | |
|--------------------|--------|---------------------|----------|----------|----------|----------------------|----------------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-----------------|-----------------------|------------------|
| Lake Name | County | Beginning of Record | SEP 2010 | OCT 2010 | OCT 2009 | Change from SEP 2010 | Change from OCT 2009 | Diff from MELM | (MELM) Drought Year Low | (MLM) Normal Year Low | (MF) Normal Year High | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
| Lake Alfred | Polk | 1961 | 126.27 | 125.94 | 124.75 | -0.33 | 1.19 | -0.31 | 126.25 | 128.25 | 130.75 | 122.40 | MAY 1977 | 132.76 | MAR 1998 |
| Lake Ariana | Polk | 1945 | 134.42 | 134.04 | 132.47 | -0.38 | 1.57 | 1.54 | 132.50 | 134.50 | 137.00 | 131.28 | MAY 1976 | 137.90 | AUG 1946 |
| Lake Arietta | Polk | 1970 | 138.95 | 138.55 | 137.55 | -0.40 | 1.00 | 0.55 | 138.00 | 141.00 | 144.00 | 136.50 | MAY 1977 | 144.12 | SEP 2004 |
| Blue Lake South | Polk | 1986 | 111.25 | 110.83 | 111.51 | -0.42 | -0.68 | -1.67 | 112.50 | 114.00 | 117.00 | 103.38 | FEB 1991 | 119.19 | DEC 2005 |
| Lake Bonny | Polk | 1954 | 129.28 | 128.98 | 124.55 | -0.30 | 4.43 | 2.98 | 126.00 | 128.00 | 130.50 | 122.34 | MAY 2009 | 133.08 | SEP 2004 |
| Lake Buffum | Polk | 1972 | 126.51 | 126.33 | 126.40 | -0.18 | -0.07 | -0.42 | 126.75 | 129.25 | 132.25 | 123.90 | JUN 1991 | 133.00 | JUN 2005 |
| Clearwater Lake | Polk | 1979 | 140.98 | 140.60 | 140.20 | -0.38 | 0.40 | 1.60 | 139.00 | 141.00 | 143.50 | 137.93 | MAY 2001 | 146.06 | AUG 1984 |
| Lake Conine | Polk | 1989 | 127.10 | 126.75 | 124.09 | -0.35 | 2.66 | 2.25 | 124.50 | 126.50 | 128.75 | 123.83 | NOV 2009 | 129.95 | SEP 2004 |
| Eagle Lake | Polk | 1965 | 125.63 | 125.35 | 125.24 | -0.28 | 0.11 | -1.15 | 126.50 | 128.50 | 130.75 | 118.76 | MAY 1976 | 131.50 | SEP 1996 |
| Lake Fannie | Polk | 1967 | 121.65 | 121.24 | 120.00 | -0.41 | 1.24 | 1.24 | 120.00 | 123.50 | 125.75 | 118.67 | MAY 1977 | 127.51 | SEP 2004 |
| Lake Garfield | Polk | 1969 | 103.83 | 103.20 | 100.85 | -0.63 | 2.35 | 3.20 | 100.00 | 101.00 | 104.75 | 97.38 | JUN 2001 | 105.91 | SEP 1979 |
| Lake Hamilton | Polk | 1945 | 119.88 | 119.77 | 118.57 | -0.11 | 1.20 | 2.52 | 117.25 | 119.00 | 121.50 | 116.61 | JUN 2001 | 124.34 | OCT 1948 |
| Lake Helene | Polk | 1961 | 137.48 | 137.08 | 136.30 | -0.40 | 0.78 | -1.92 | 139.00 | 141.00 | 144.00 | 134.06 | JUN 2008 | 146.48 | MAR 1998 |
| Lake Howard | Polk | 1946 | 130.50 | 130.08 | 128.94 | -0.42 | 1.14 | 3.08 | 127.00 | 129.50 | 132.00 | 127.69 | MAY 2001 | 133.10 | SEP 1960 |
| Lake Juliana | Polk | 1961 | 128.72 | 128.39 | 127.62 | -0.33 | 0.77 | 0.89 | 127.50 | 130.00 | 132.50 | 126.20 | MAY 1976 | 134.10 | MAR 1998 |
| Lake Mcleod | Polk | 1965 | 125.48 | 125.00 | 125.28 | -0.48 | -0.28 | -3.00 | 128.00 | 129.50 | 132.00 | 115.11 | MAY 1976 | 131.98 | SEP 1998 |
| Lake Otis | Polk | 1954 | 125.10 | 124.65 | 123.83 | -0.45 | 0.82 | 1.65 | 123.00 | 125.00 | 128.00 | 119.58 | MAY 1976 | 129.12 | SEP 1960 |
| Lake Ruby | Polk | 1976 | 124.80 | 124.42 | 123.40 | -0.38 | 1.02 | 3.42 | 121.00 | 123.00 | 125.25 | 117.41 | MAY 1976 | 125.98 | SEP 2004 |
| Lake Gibson | Polk | 1954 | 142.96 | 142.64 | 142.60 | -0.32 | 0.04 | 1.14 | 141.50 | 141.50 | 143.50 | 140.21 | MAY 2009 | 145.40 | SEP 1988 |

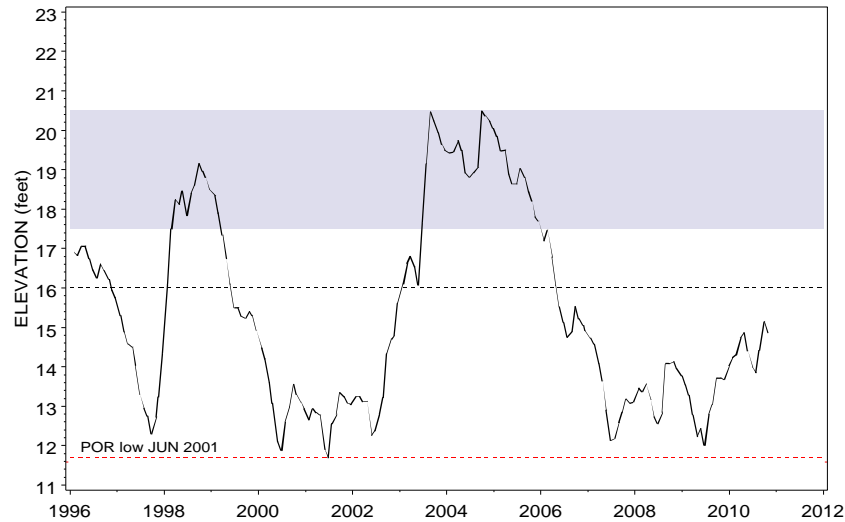
| LK WALES RIDGE LAKES | | | | | | | | | | | | | | | |
|----------------------|-----------|---------------------|----------|----------|----------|----------------------|----------------------|----------------|-------------------------|-----------------------|-----------------------|----------------------|-----------------|-----------------------|------------------|
| Lake Name | County | Beginning of Record | SEP 2010 | OCT 2010 | OCT 2009 | Change from SEP 2010 | Change from OCT 2009 | Diff from MELM | (MELM) Drought Year Low | (MLM) Normal Year Low | (MF) Normal Year High | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
| Lake Annie | Polk | 1970 | 111.44 | 111.02 | 110.99 | -0.42 | 0.03 | -2.98 | 114.00 | 116.00 | 119.00 | 108.36 | JUN 1990 | 117.56 | OCT 2005 |
| Lake Clay | Highlands | 1983 | 77.66 | 77.31 | 77.40 | -0.35 | -0.09 | 2.31 | 75.00 | 76.00 | 78.75 | 74.34 | MAY 2001 | 78.38 | OCT 1995 |
| Crooked Lake | Polk | 1945 | 115.84 | 115.36 | 115.87 | -0.48 | -0.51 | -1.64 | 117.00 | 118.50 | 122.00 | 106.10 | MAY 1991 | 123.98 | OCT 1948 |
| Lake Jackson | Highlands | 1945 | 100.00 | 99.68 | 98.55 | -0.32 | 1.13 | 1.68 | 98.00 | 100.00 | 103.00 | 96.37 | JUN 2008 | 103.76 | SEP 1947 |
| Lake Letta | Highlands | 1951 | 92.98 | 92.75 | 93.04 | -0.23 | -0.29 | -2.25 | 95.00 | 97.00 | 100.00 | 90.27 | JUN 2008 | 101.38 | OCT 1953 |
| Lake Lotela | Highlands | 1950 | 99.42 | 99.24 | 98.28 | -0.18 | 0.96 | -4.76 | 104.00 | 105.00 | 108.50 | 97.00 | JUN 2008 | 109.38 | JUL 1954 |
| Lake Placid | Highlands | 1984 | 91.20 | 90.98 | 90.33 | -0.22 | 0.65 | 0.98 | 90.00 | 91.50 | 94.50 | 88.08 | JUN 2008 | 94.24 | SEP 2003 |
| Starr Lake | Polk | 1983 | 100.17 | 99.90 | 98.83 | -0.27 | 1.07 | -8.10 | 108.00 | 110.00 | 113.00 | 96.23 | JUL 2001 | 109.80 | DEC 2005 |
| Trout Lake | Highlands | 1981 | 91.84 | 91.48 | 89.47 | -0.36 | 2.01 | -3.52 | 95.00 | 98.00 | 101.00 | 87.15 | MAY 2001 | 98.90 | MAR 1998 |

NOTE: M='no data' or 'not determined'

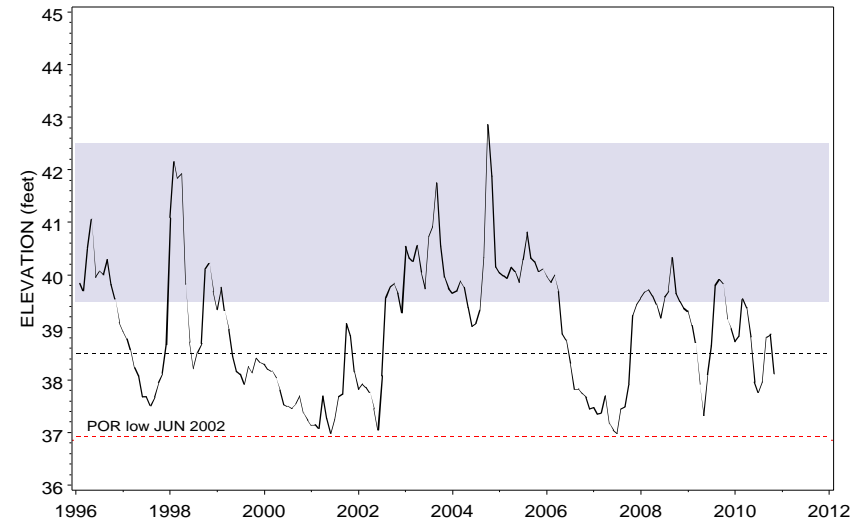
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

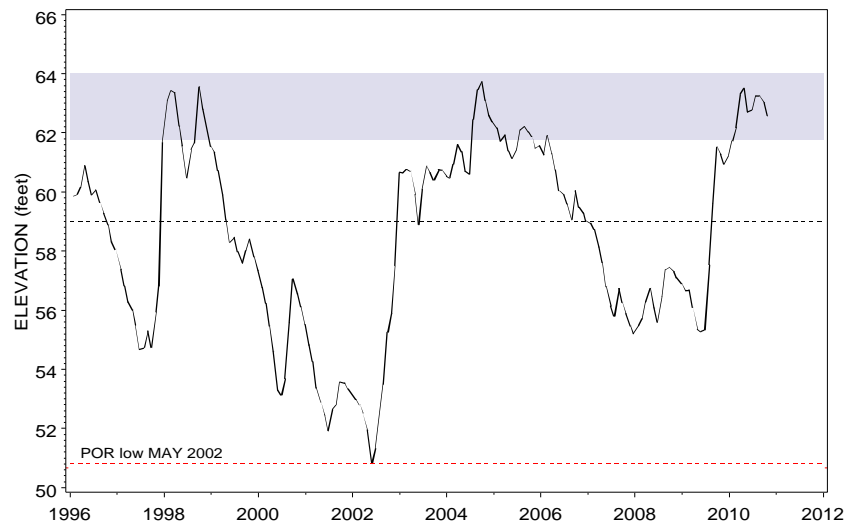
Hunters Lake
Northern Lakes



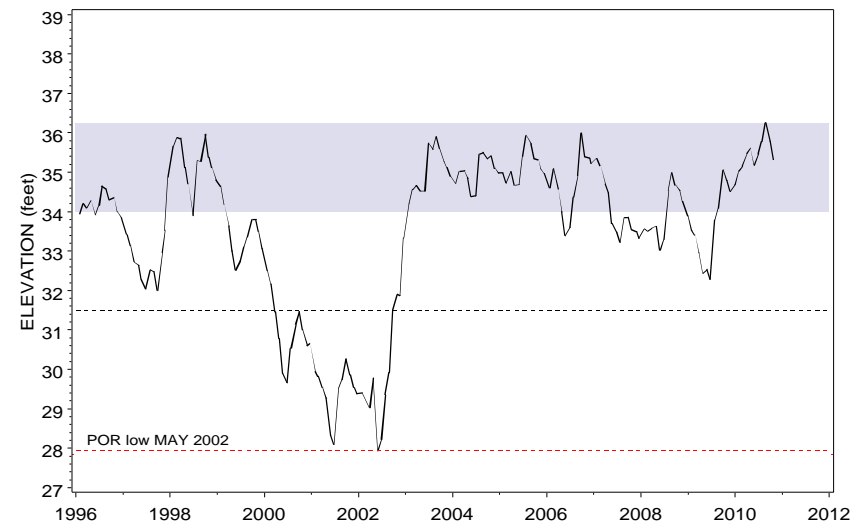
Lake Panasoffkee
Northern Lakes



Camp Lake
Tampa Bay Lakes



Church Lake
Tampa Bay Lakes

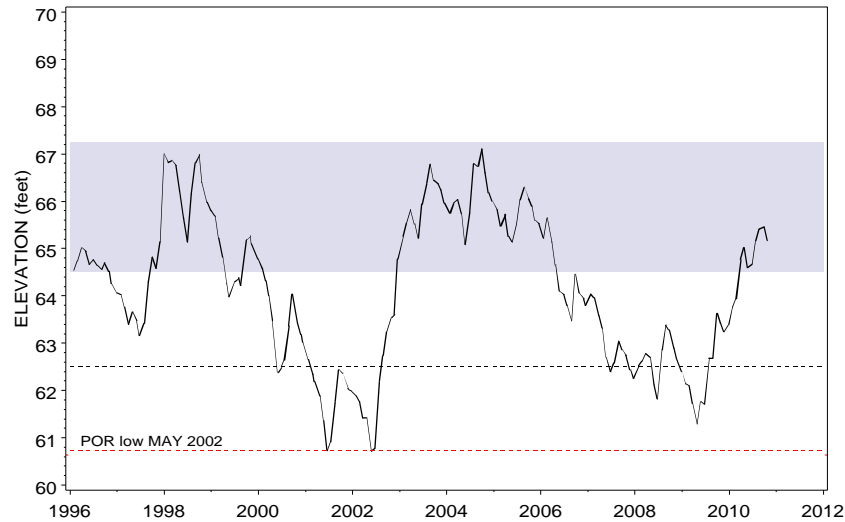


— Monthly Mean Elevation - - - Drought Year Low Normal Range

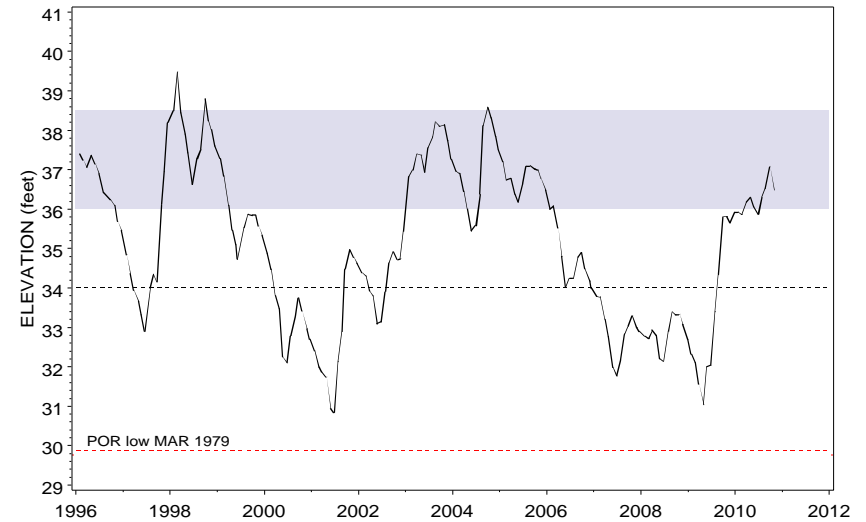
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

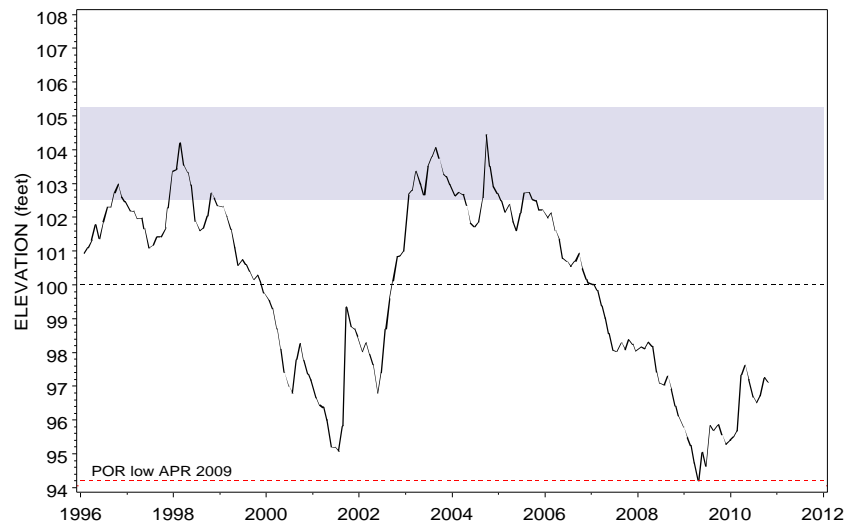
Deer Lake
Tampa Bay Lakes



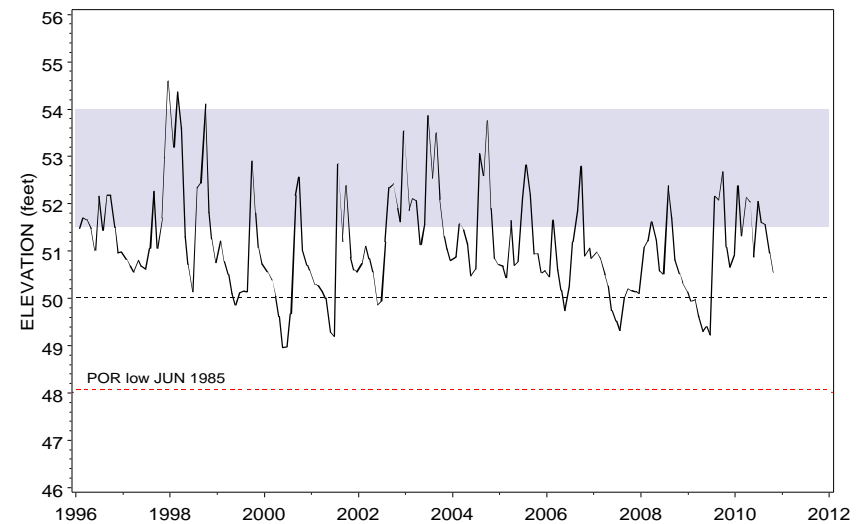
Gornto Lake
Tampa Bay Lakes



King Lake
Tampa Bay Lakes



Turkey Ford Lake
Tampa Bay Lakes

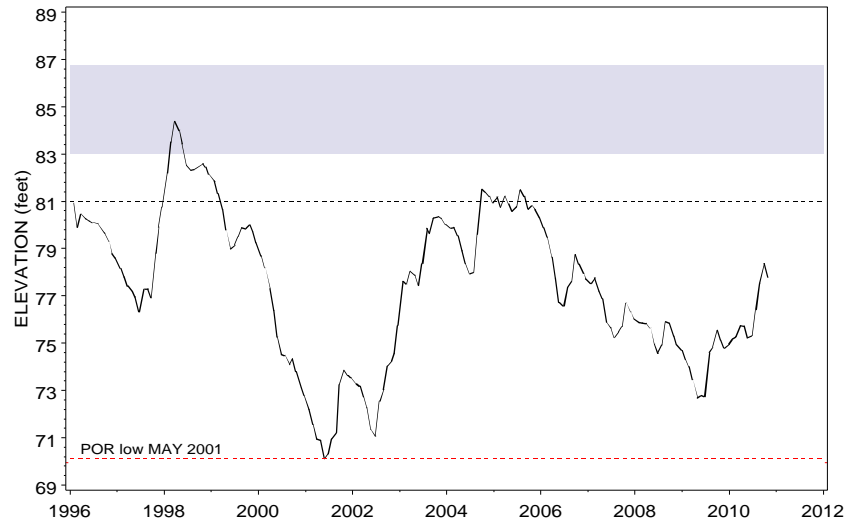


— Monthly Mean Elevation - - - Drought Year Low Normal Range

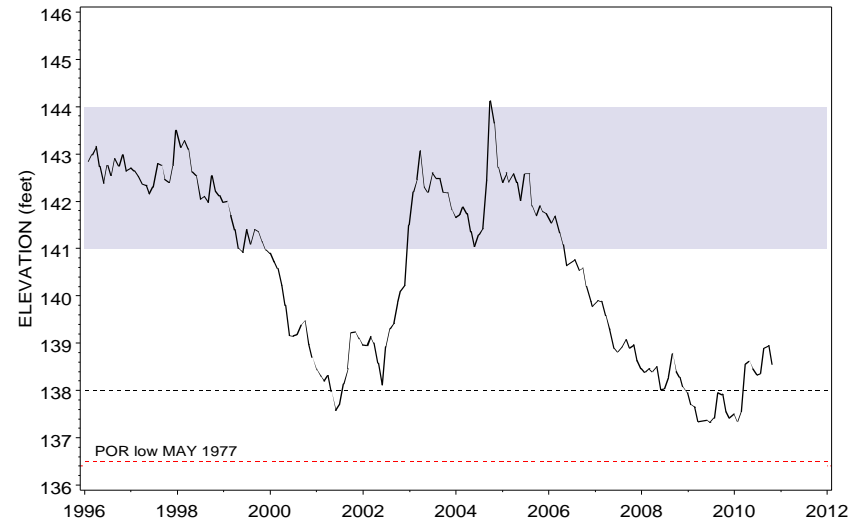
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

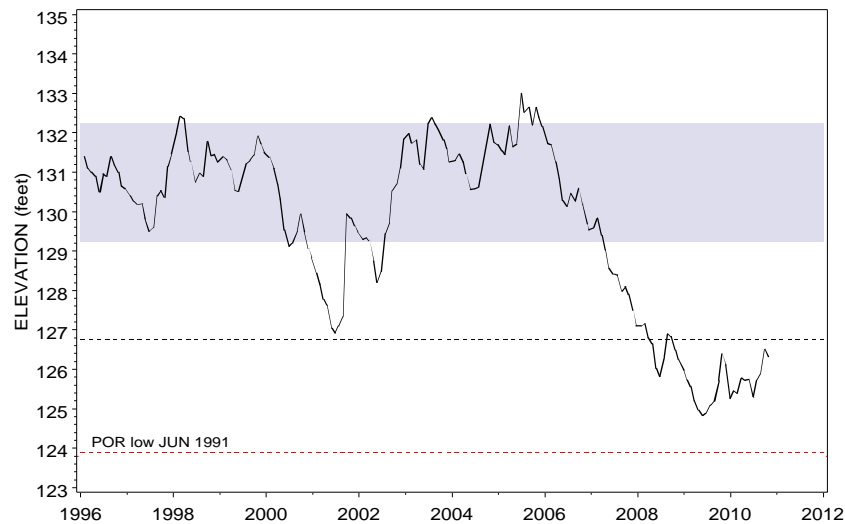
Lake Wimauma
Tampa Bay Lakes



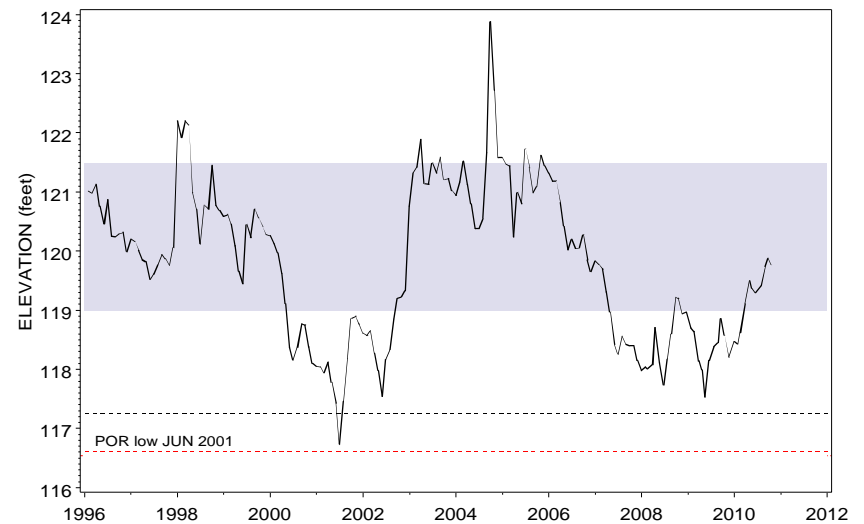
Lake Arietta
Polk Uplands Lakes



Lake Buffum
Polk Uplands Lakes



Lake Hamilton
Polk Uplands Lakes

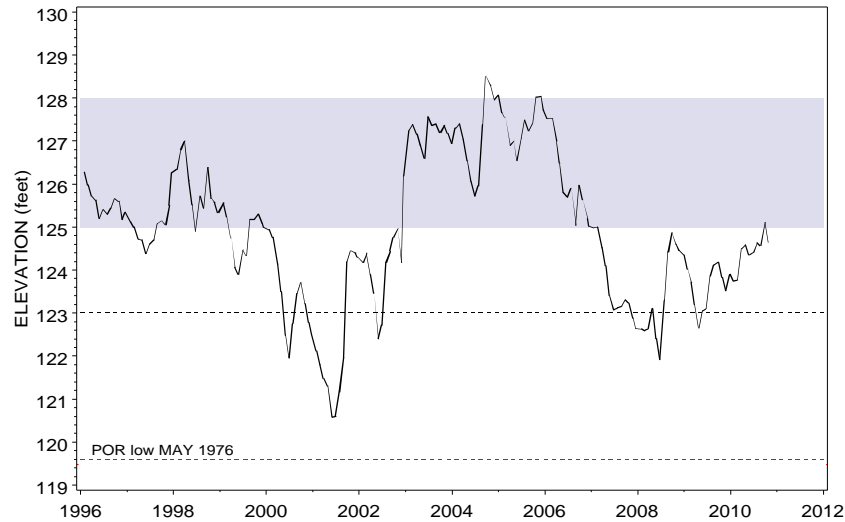


— Monthly Mean Elevation - - - Drought Year Low Normal Range

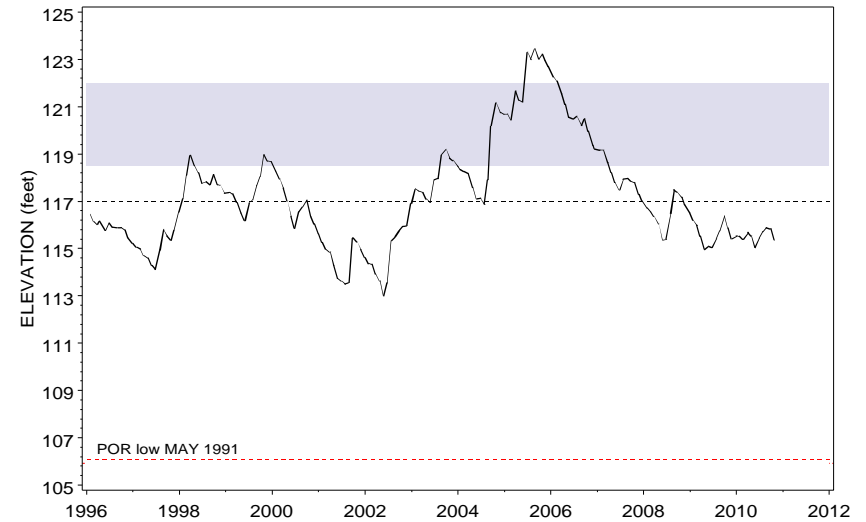
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

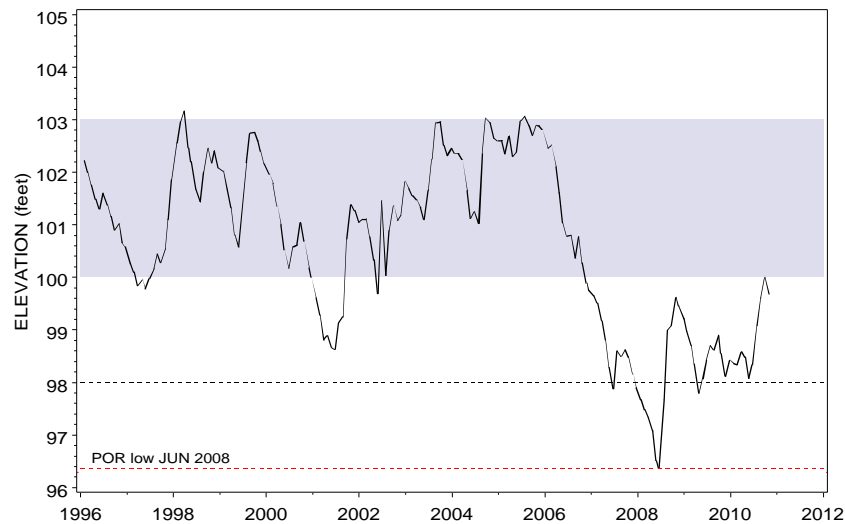
Lake Otis
Polk Uplands Lakes



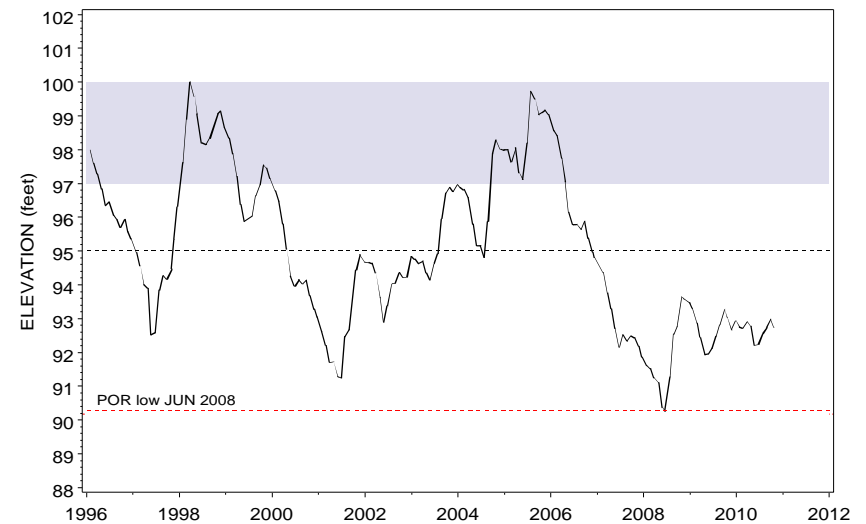
Crooked Lake
Lake Wales Ridge Lakes



Lake Jackson
Lake Wales Ridge Lakes



Lake Letta
Lake Wales Ridge Lakes



— Monthly Mean Elevation - - - Drought Year Low Normal Range

Streams

The District processes streamflow data collected by the U.S. Geological Survey (USGS) under a cooperatively funded program between the District and the USGS. Streamflow is recorded daily as water elevations at 12 gauging stations in three regions of the District (see index map in the Appendix). The USGS uses rating curves developed from water level elevations to calculate streamflow discharge in units of cubic feet per second (cfs). For this report, the reported streamflow values are the means of the daily discharge volumes for the current month. The period-of-record high and low values correspond to monthly means and not to peak events. Percentile values are calculated from the monthly means for the period of record, for each station. The percentile is the monthly mean statistically ranked on a scale of zero to 100 that indicates the percent of the period-of-record monthly means that are at or above the present monthly mean. The current year's data are provisional, and are subject to revision. Revised data are used for all calculations, as they become available.

Hydrographs are produced for each of the stream stations. Current monthly means for each station are compared to respective 25th and 75th percentiles of the period-of-record monthly means.

In October, all twelve stations monitored for this report had decreased streamflow compared to last month. Total streamflow decreased in the northern and central regions of the District by 417.6 cfs (269.8 mgd) and 679.9 cfs (439.2 mgd), while it decreased in the southern region by 1924.6 (1243.3 mgd). District-wide, total streamflow decreased an average of 3022.1 cfs (1952.3 mgd).

Eight of the twelve monitoring stations recorded lower streamflow in October 2010 than in October 2009. Streamflow was lower in the northern region by 125.7 cfs (81.2 mgd), while it was lower in the central and southern regions by 103.1 cfs (66.6 mgd) and 138.8 cfs (89.7 mgd), respectively. District-wide, total streamflow was lower, on average, by 367.6 cfs (237.5 mgd), than the October 2009 average.

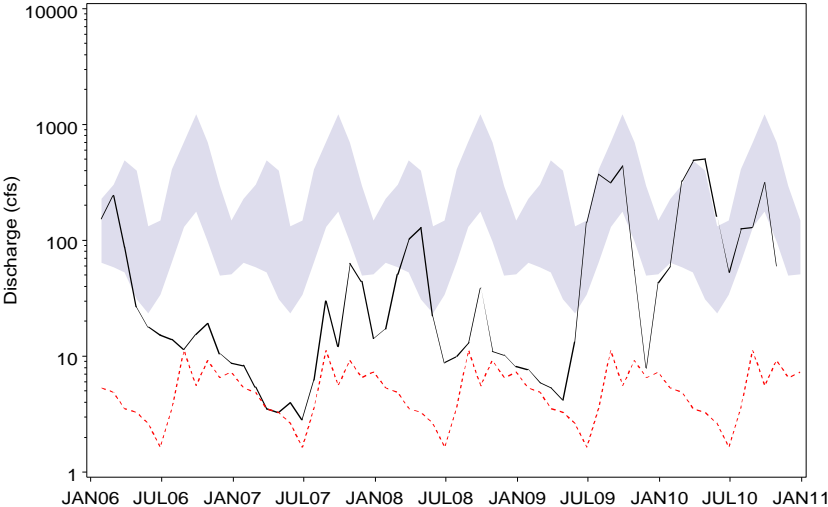
Compared to historical October discharge values, Withlacoochee River streamflow, measured at the Trilby station and the Holder station averaged in the 14th and 12th percentiles, respectively. Streamflow measured at the Anclote, Pithlachascotee River, and Hillsborough River stations averaged in the 38th, 30th and 22nd percentiles of respective historical October readings. Streamflow measured at the Alafia River, Little Manatee River and Peace River at Bartow stations averaged in the 6th, 29th and 10th percentiles of respective historical October readings. Additionally, streamflow measured at the Josephine Creek, Manatee River, Myakka River and Peace River at Arcadia stations averaged in the 14th, 4th, 13th and 8th percentiles of respective historical October readings.

SUMMARY OF STREAM DISCHARGE FROM MAJOR STREAMS (CFS), OCTOBER 2010

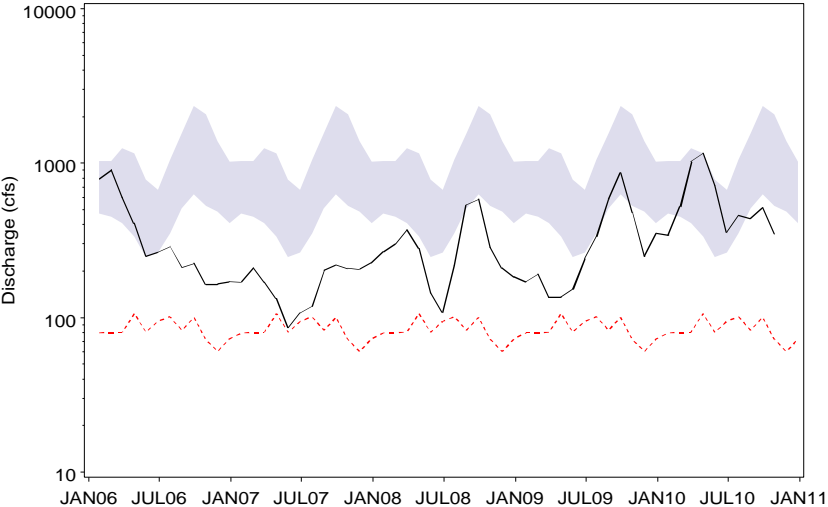
| | <i>Beginning Year of Record</i> | <i>Mean Discharge OCT 2010</i> | <i>Mean Discharge SEP 2010</i> | <i>Mean Discharge OCT 2009</i> | <i>Change from SEP 2010</i> | <i>Change from OCT 2009</i> | <i>OCT 2010 Percentile Rank</i> | <i>Period of Record Low</i> | <i>Record Low Date</i> | <i>Period of Record High</i> | <i>Record High Date</i> |
|--|---|--|--|--|-------------------------------------|-------------------------------------|---|-------------------------------------|--------------------------------|--------------------------------------|---------------------------------|
| <i>NORTHERN COUNTIES</i> | | | | | | | | | | | |
| Withlacoochee R at Trilby | 1928 | 60.0 | 313.0 | 55.2 | -253.0 | 4.8 | 14% | 0.1 | JUN2000 | 8840 | JUN1934 |
| Withlacoochee R near Holder | 1928 | 348.2 | 512.8 | 478.7 | -164.6 | -130.5 | 12% | 33.0 | MAR2001 | 8660 | APR1960 |
| <i>CENTRAL COUNTIES</i> | | | | | | | | | | | |
| Anclote River near Elfers | 1946 | 15.7 | 134.5 | 27.1 | -118.8 | -11.4 | 38% | 0.8 | MAY1962 | 3710 | JUL1960 |
| Pithlachascotte R near New Port Richey | 1963 | 4.1 | 33.3 | 8.7 | -29.2 | -4.6 | 30% | 0.0 | JUN2009 | 1420 | SEP1988 |
| Hillsborough R near Zephyrhills | 1939 | 94.0 | 176.2 | 90.8 | -82.2 | 3.2 | 22% | 27.0 | MAY2001 | 12300 | MAR1960 |
| Alafia River at Lithia | 1932 | 87.6 | 324.4 | 162.4 | -236.8 | -74.8 | 6% | 4.1 | JUN2000 | 40800 | SEP1933 |
| Little Manatee R near Wimauma | 1939 | 61.5 | 157.9 | 78.9 | -96.4 | -17.4 | 29% | 0.9 | DEC1976 | 11100 | SEP1960 |
| Peace River at Bartow | 1939 | 33.1 | 193.2 | 23.4 | -160.1 | 9.7 | 10% | 0.0 | MAY2009 | 4100 | SEP1947 |
| <i>SOUTHERN COUNTIES</i> | | | | | | | | | | | |
| Josephine Cr near DeSoto City | 1946 | 25.4 | 141.9 | 23.5 | -116.5 | 1.9 | 14% | 0.5 | MAY1956 | 1680 | SEP1948 |
| Manatee River near Myakka Head | 1966 | 8.6 | 46.8 | 19.0 | -38.2 | -10.4 | 4% | 0.1 | MAY1975 | 6440 | JUN2003 |
| Myakka River near Sarasota | 1936 | 91.1 | 355.9 | 145.3 | -264.8 | -54.2 | 13% | 0.0 | MAY2009 | 10800 | JUN2003 |
| Peace River at Arcadia | 1931 | 233.3 | 1694.8 | 317.2 | -1461.5 | -83.9 | 8% | 5.6 | MAY2000 | 34700 | SEP1933 |

HYDROGRAPHS OF MAJOR STREAMS
JANUARY 2006 TO OCTOBER 2010

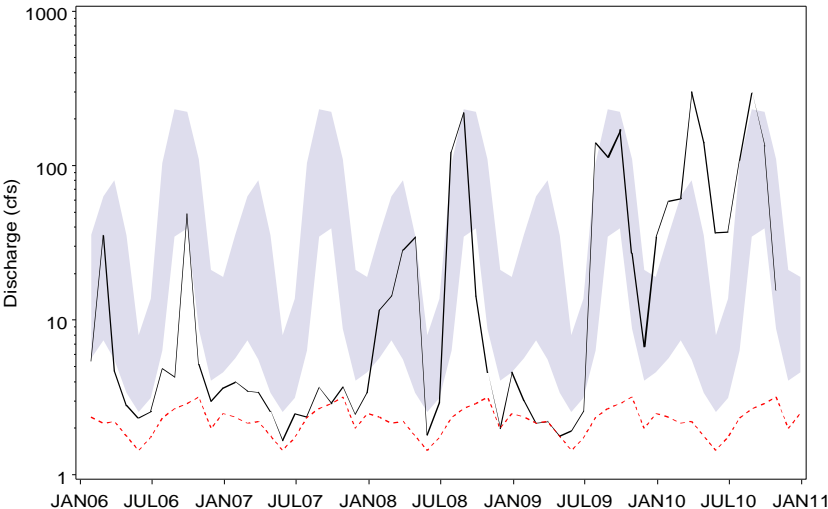
Withlacoochee R at Trilby
Northern Counties



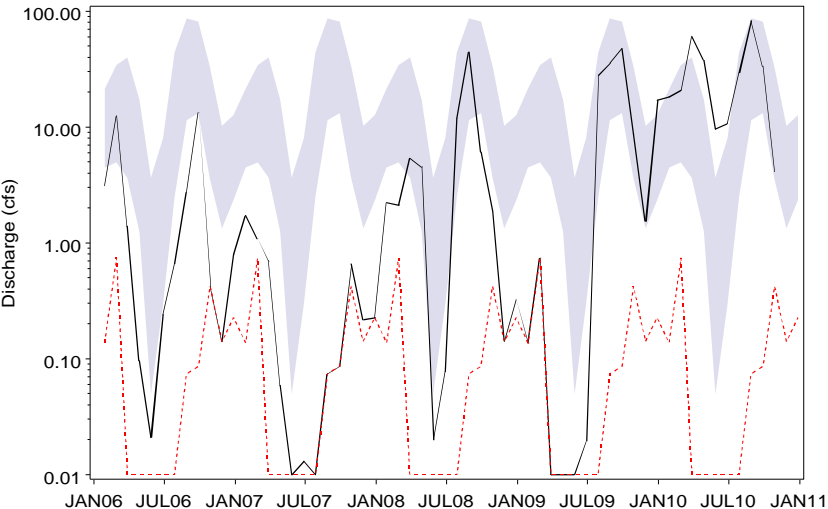
Withlacoochee R near Holder
Northern Counties



Ancloste River near Elfers
Central Counties



Pithlachascotee R near New Port Richey
Central Counties

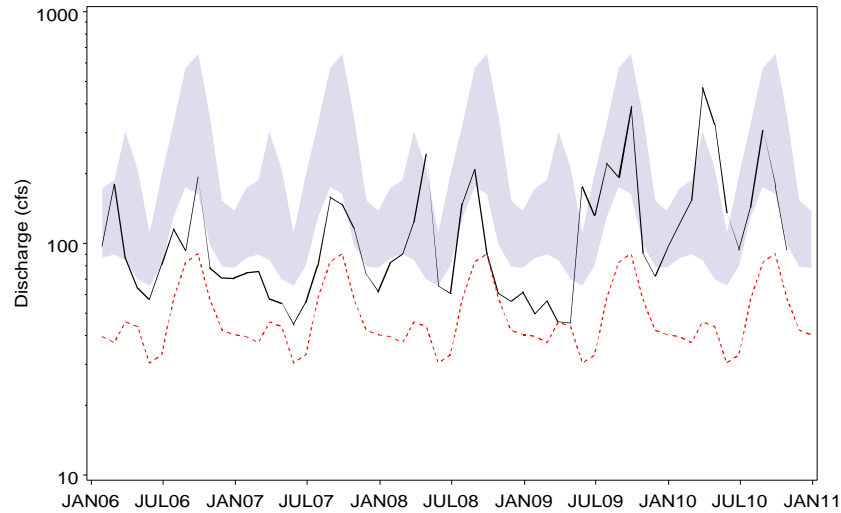


— Monthly Mean Discharge - - - - - POR Monthly Low Normal Range

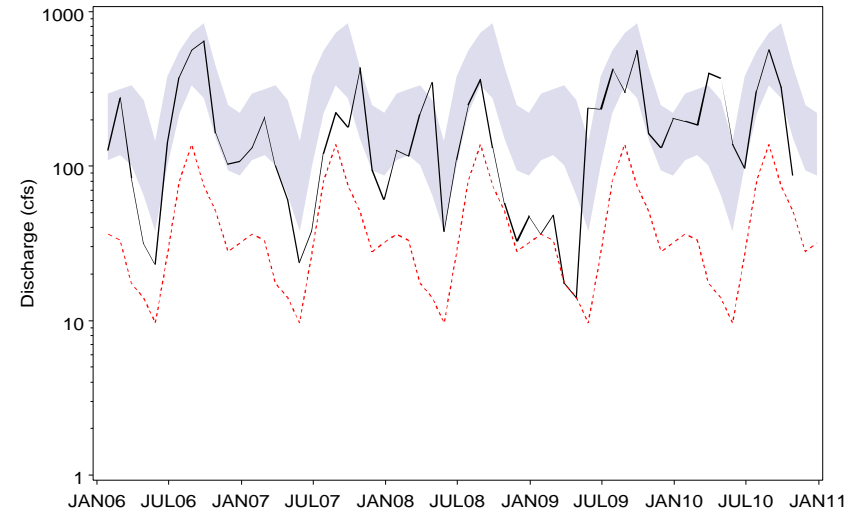
HYDROGRAPHS OF MAJOR STREAMS

JANUARY 2006 TO OCTOBER 2010

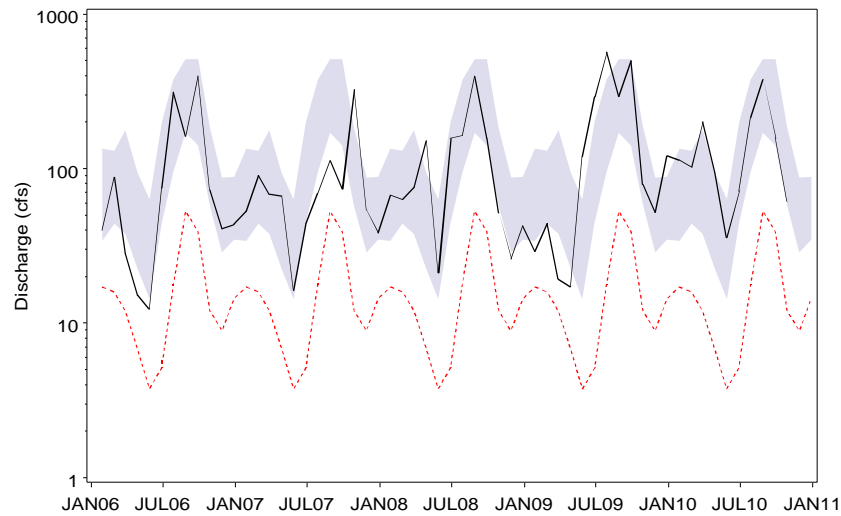
Hillsborough R near Zephyrhills
Central Counties



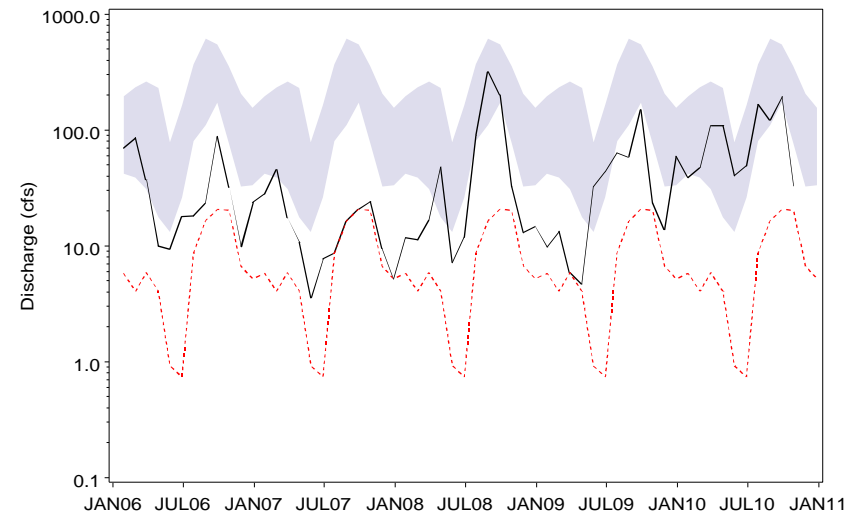
Alafia River at Lithia
Central Counties



Little Manatee R near Wimauma
Central Counties



Peace River at Bartow
Central Counties



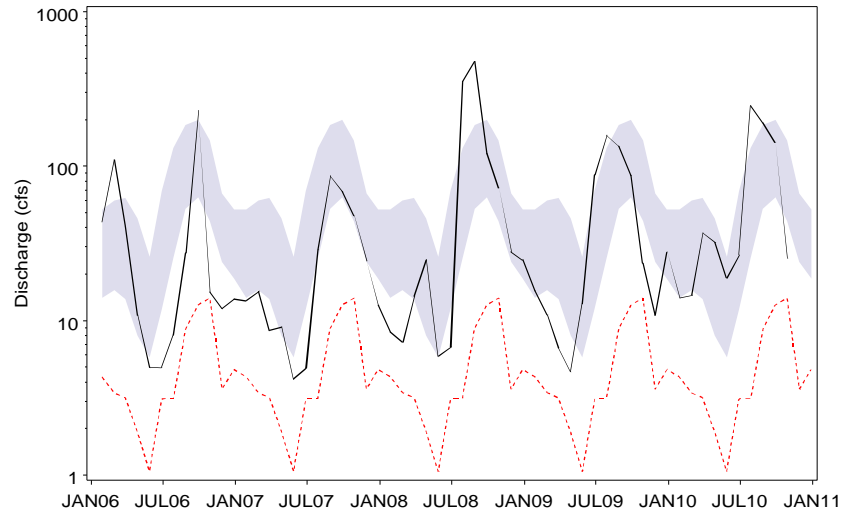
— Monthly Mean Discharge

- - - POR Monthly Low

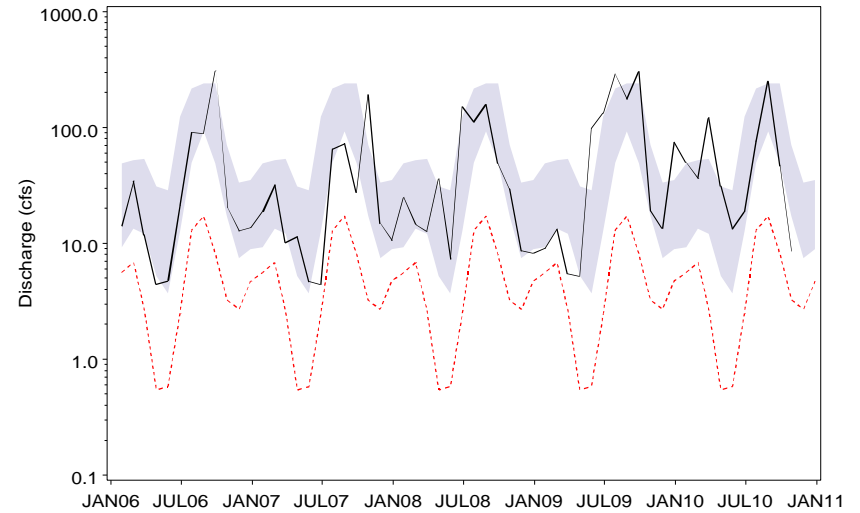
Normal Range

HYDROGRAPHS OF MAJOR STREAMS JANUARY 2006 TO OCTOBER 2010

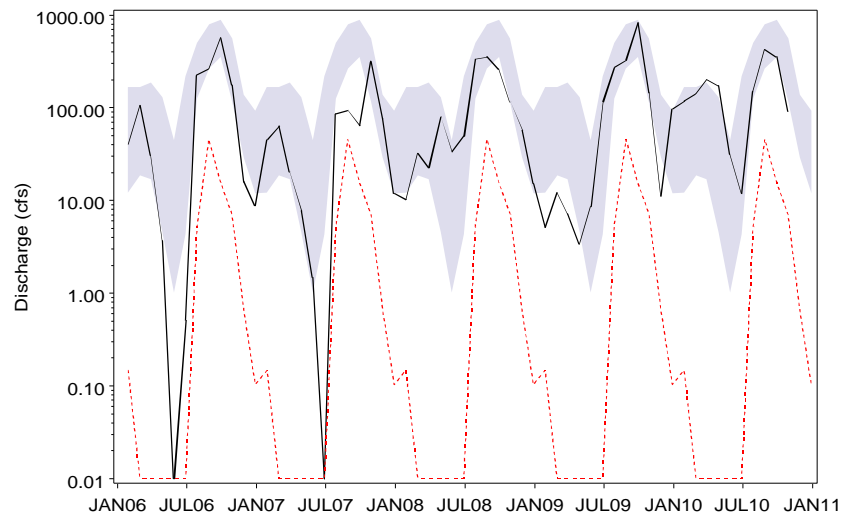
Josephine Cr near DeSoto City
Southern Counties



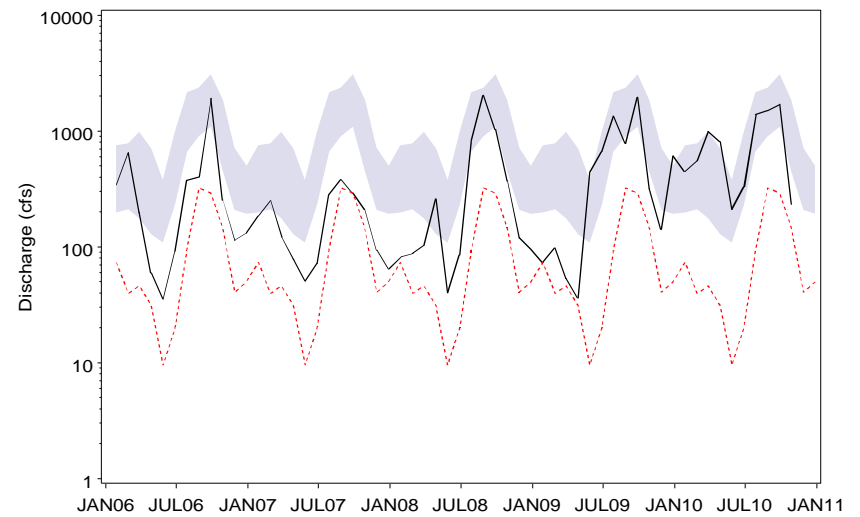
Manatee River near Myakka Head
Southern Counties



Myakka River near Sarasota
Southern Counties



Peace River at Arcadia
Southern Counties



— Monthly Mean Discharge

- - - POR Monthly Low

■ Normal Range

Springs

The District processes springflow data collected by Tampa Bay Water through a mutual agreement and by the U.S. Geological Survey (USGS) under a cooperatively funded program between the District and the USGS. Springflow is monitored at seven gauging stations in two regions of the District (see index map in the Appendix). Springflow data for Rainbow, Silver and Sulphur Springs are recorded as daily water levels. The USGS uses rating curves developed for these springs from historical water level elevations to calculate springflow discharge in units of cubic feet per second (cfs). Crystal and Weeki Wachee Springs discharge (cfs) is provided as an instantaneous reading calculated by the USGS. Buckhorn and Lithia Springs discharge is obtained from Tampa Bay Water biweekly and weekly, respectively. Period-of-record high and low values correspond to monthly theoretical means and not to peak events. Values are reported as percentiles calculated from an analysis of historical monthly means recorded during a given month. The percentile is the monthly mean ranked on a scale of zero to 100 that indicates the percent of period-of-record values that are above, equal to or below the median (50th percentile) for the current month. The values reported are provisional, and are subject to revision at the end of the water year. Revised USGS springflow data are loaded into the District's WMDB when they become available.

Hydrographs are produced for the seven-springflow stations, and current values are compared to respective 25th and 75th percentiles that are calculated from historical data. The 25th and 75th percentiles are calculated using the SASTM software system for data analysis using period-of-record monthly theoretical means for each springflow station analyzed.

In October, all seven stations reported decreased springflow, compared to the previous month. Total springflow decreased in the northern and central regions of the District by 71.8 cfs (46.4 mgd) and 28.4 cfs (18.4 mgd), respectively. District-wide, springflow decreased by 100.2 cfs (64.8 mgd).

Total springflow recorded in four of the seven stations was lower in October 2010 than October 2009. Total springflow for the northern region was higher by 83.5 cfs (53.9 mgd), while it was lower in the central region by 6.8 cfs (4.4 mgd). District-wide, springflow increased by 76.7 cfs (49.5 mgd), compared to October 2009 rates.

Compared to historical period-of-record values for October, total springflow measured in Rainbow, Silver and Weeki Wachee Springs, in the northern region, was in the 23rd, 4th and 40th percentiles of respective historical readings. Springflow measured in Crystal, Sulphur, Buckhorn and Lithia Springs in the central region was in the 66th, 6th, 13th and 53rd percentiles, respectively, of historical October readings.

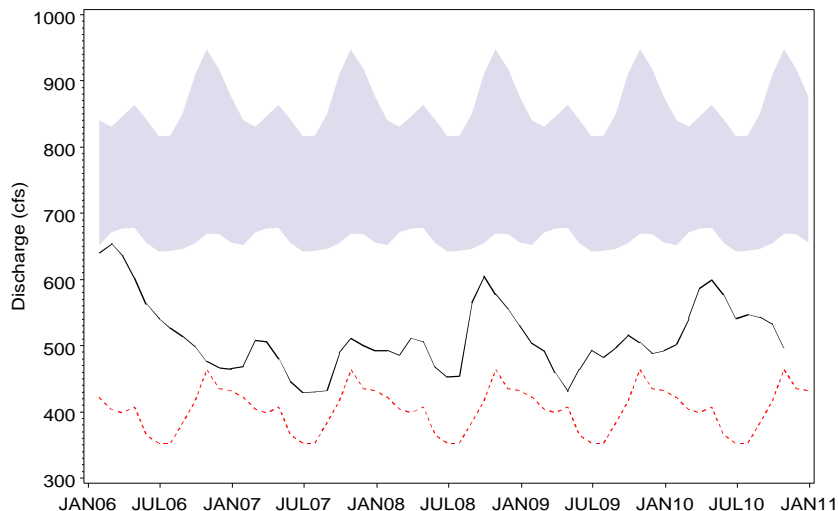
SUMMARY OF SPRINGS DISCHARGE FROM MAJOR SPRINGS (CFS), OCTOBER 2010

| <i>NORTHERN COUNTIES</i> | <i>OCT 2010 Discharge</i> | <i>SEP 2010 Discharge</i> | <i>OCT 2009 Discharge</i> | <i>Change From SEP 2010</i> | <i>Change From OCT 2009</i> | <i>OCT 2010 Percentile Rank</i> | <i>Period of Record Low</i> | <i>Record Low Date</i> | <i>Period of Record High</i> | <i>Record High Date</i> |
|--------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------------|-------------------------------------|---|-------------------------------------|--------------------------------|--------------------------------------|---------------------------------|
| Rainbow Springs | 646.7 | 685.2 | 565.4 | -38.5 | 81.3 | 23% | 470.0 | JUN2001 | 1230.0 | OCT1964 |
| Silver Springs | 513.3 | 540.3 | 510.7 | -27.0 | 2.6 | 4% | 352.5 | JUN2001 | 1290.0 | OCT1960 |
| Weeki Wachee Springs | 155.6 | 161.9 | 156.0 | -6.3 | -0.4 | 40% | 101.0 | JUN1994 | 257.0 | OCT2004 |
| <i>CENTRAL COUNTIES</i> | | | | | | | | | | |
| Crystal Springs | 46.4 | 50.2 | 45.6 | -3.8 | 0.8 | 66% | 1.5 | SEP1988 | 141.5 | DEC2002 |
| Sulphur Springs | 14.1 | 29.6 | 18.7 | -15.5 | -4.6 | 6% | 0.0 | JUN1994 | 145.0 | MAR1960 |
| Buckhorn Springs | 10.9 | 12.8 | 12.1 | -1.9 | -1.2 | 13% | 2.2 | MAY2006 | 32.7 | AUG2004 |
| Lithia Springs | 46.8 | 54.0 | 48.6 | -7.2 | -1.8 | 53% | 6.1 | JUN1985 | 91.5 | NOV2004 |

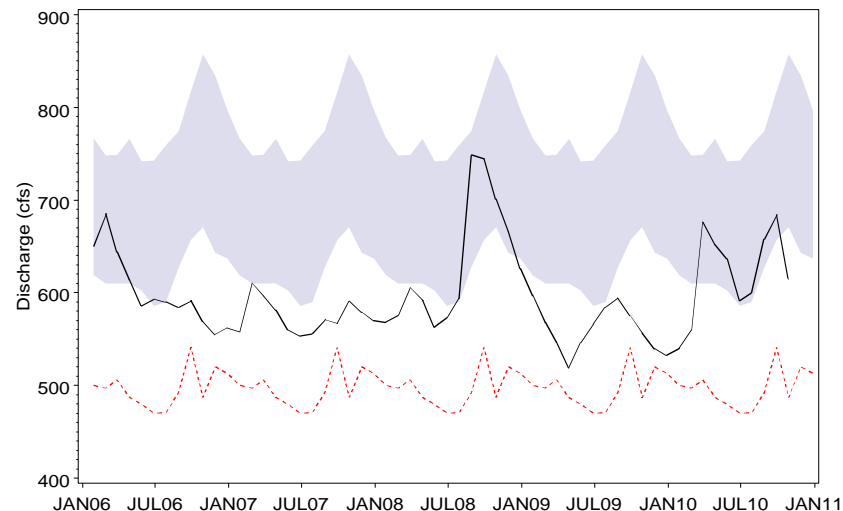
HYDROGRAPHS OF REGIONAL SPRINGS

JANUARY 2006 TO OCTOBER 2010

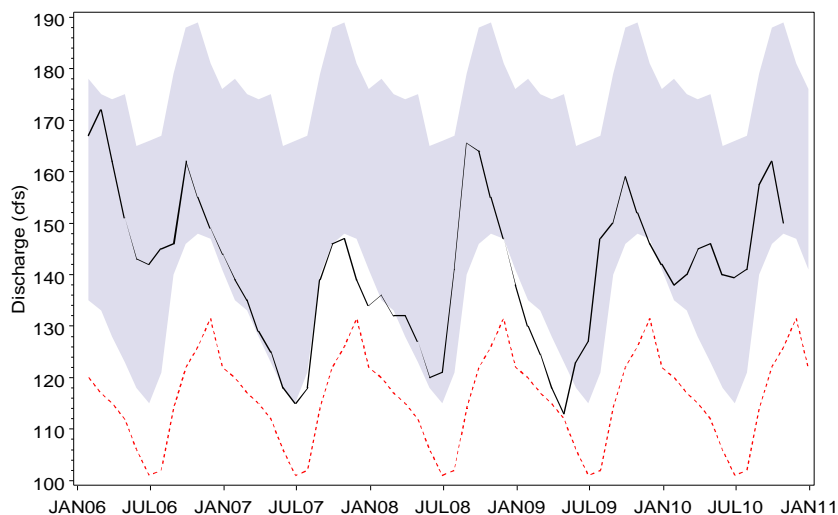
Silver Springs
Northern Counties



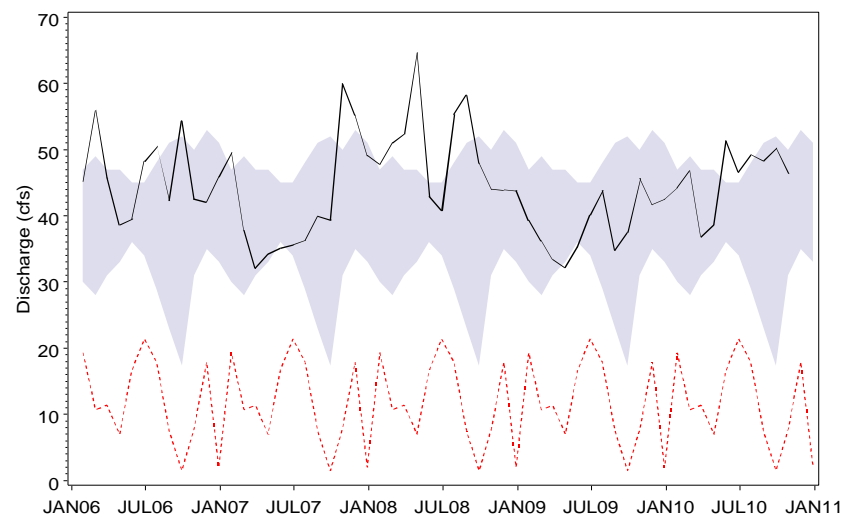
Rainbow Springs
Northern Counties



Weeki Wachee Springs
Northern Counties



Crystal Springs
Central Counties



— Monthly Discharge

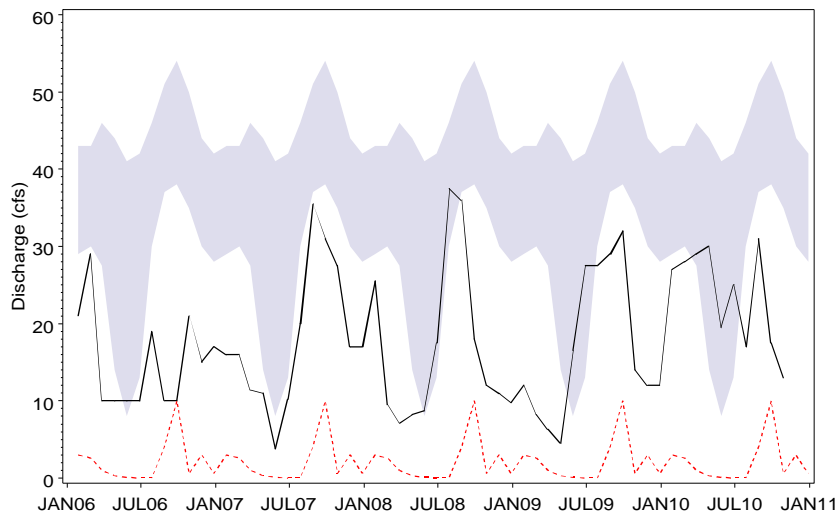
- - - - - POR Monthly Low

Normal Range

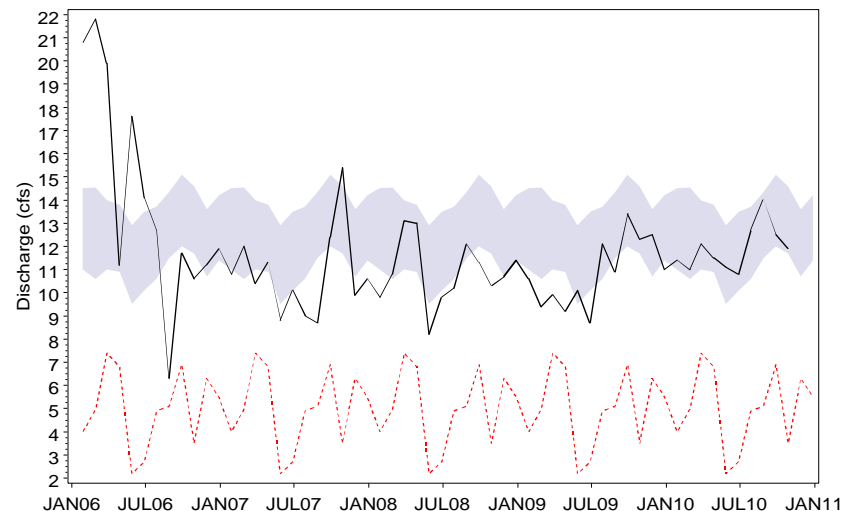
HYDROGRAPHS OF REGIONAL SPRINGS

JANUARY 2006 TO OCTOBER 2010

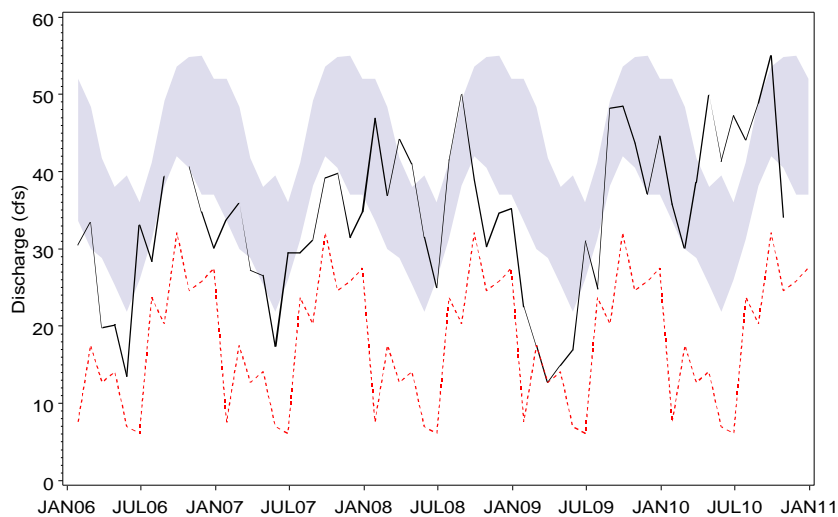
Sulphur Springs
Central Counties



Buckhorn Spring
Central Counties



Lithia Springs
Central Counties



— Monthly Discharge

- - - POR Monthly Low

■ Normal Range

GROUND WATER

The ground-water section of this report has been revised and now provides ground-water level information within the District based on geographically delineated areas (regions) within the District, and no longer uses regional delineations based on hydrogeologic characteristics. The purpose for using geographical boundaries (only) has been to eliminate past confusion that resulted when regional ground-water data pertaining to the surficial aquifer and Intermediate/Floridan aquifer were reported based on hydrogeologic boundaries, while the Aquifer Resource Index section reported ground-water data based on geographic boundaries. This change should provide consistency in the review and reporting of all ground-water information.

For this report, the District has been divided into three geographical regions that are defined by county boundaries (see index maps in the Appendix). Each regional area includes all or part of each county that is located within that region and that is also within the District's jurisdictional boundaries. The northern region includes the counties of Citrus, Hernando, Lake, Levy, Marion and Sumter, where the Floridan aquifer is generally unconfined and at or near land surface, allowing rainfall to easily recharge (replenish) the aquifer system. The central region includes the counties of Hillsborough, Pasco, Pinellas and Polk, where the Floridan aquifer can be unconfined, semi-confined or confined (overlain by thick clays). Where the Floridan aquifer is confined, recharge to the aquifer from rainfall is low. The southern region includes the counties of Charlotte, DeSoto, Hardee, Highlands, Manatee and Sarasota, where the Floridan aquifer is confined.

Twelve surficial aquifer (shallow, non-artesian) and 51 intermediate and Floridan aquifer (deep) monitor wells are measured for this report to determine the relative health of ground-water levels District-wide. Only monitor wells with an adequate and reliable period-of-record water level measurements were selected for the network. For each well, the 25th and 75th percentiles ("low normal" and "high normal," respectively) were calculated for each week of the year using the period-of-record data. The 25th and 75th percentiles are used to represent the lower and upper limits of the normal range, as they are considered a reliable and robust measure of the normal range, and are less affected by extremes in the data record. The end-of month water-level readings measured for this report are compared to their corresponding normal ranges. Trend data from 16 intermediate and Floridan aquifer wells are shown in hydrographs to compare current water levels to the low normal and high normal levels.

Data from these wells are further compiled into regional statistics for the three regions of the District. Wells in the northern counties are unconfined and non-artesian, while those in the southern counties are confined and artesian. Wells included in the central counties vary between confined and unconfined conditions due to the transitional nature of geology in this area. The potentiometric levels of representative Floridan aquifer wells are used to produce the potentiometric surface maps presented in this report.

Surficial Aquifer

During October, eleven of the twelve surficial aquifer wells recorded water level decreases compared to last month, while data were unavailable for the Tarpon Road Shallow well in the central region. Regionally, average surficial aquifer water levels decreased in the northern, central and southern regions of the District by 1.28 feet, 0.91 foot and 1.47 feet, respectively. District-wide, average surficial aquifer water levels decreased by 1.13 feet.

In October, average water levels in seven of the twelve surficial aquifer wells were higher than October 2009 levels. Average surficial aquifer water levels were lower in the northern region by 1.15 feet, while levels were higher in the central and southern regions by 0.66 and 0.16 foot, respectively. District-wide, average water levels in surficial wells were 0.20 foot higher than October 2009 levels.

At the end of October, water levels were in the normal range in seven of the twelve surficial wells. Average surficial aquifer water levels in the northern region were 0.71 foot below the bottom of the normal range, while in the central and southern regions they were above the bottom of the normal range by 0.83 and 0.61 foot, respectively. District-wide, the average water level in surficial wells was 0.49 foot above the bottom of the normal range.

Note: The Tarpon Road Shallow monitor well located in the central region was destroyed (plugged on 7/20/2010) as a result of road construction activities. A replacement well is proposed at that location after road construction activities are completed.

SUMMARY OF SURFICIAL AQUIFER LEVELS IN REPRESENTATIVE WELLS, OCTOBER 2010

| | <i>OCT 2010 Elev</i> | <i>SEP 2010 Elev</i> | <i>OCT 2009 Elev</i> | <i>Change From SEP 2010</i> | <i>Change From OCT 2009</i> | <i>OCT Historical Low Normal</i> | <i>OCT Historical High Normal</i> | <i>Departure From Low Normal</i> | <i>Period of Record Low</i> | <i>Record Low Date</i> | <i>Period of Record High</i> | <i>Record High Date</i> |
|--------------------------|------------------------------|------------------------------|------------------------------|---|---|--|---|--|-------------------------------------|--------------------------------|--------------------------------------|---------------------------------|
| <i>NORTHERN COUNTIES</i> | | | | | | | | | | | | |
| Green Swamp | 88.27 | 90.50 | 90.67 | -2.23 | -2.40 | 89.75 | 91.22 | -1.48 | 82.95 | MAY2000 | 93.07 | SEP1985 |
| Lecanto 2 | 7.71 | 8.03 | 7.60 | -0.32 | 0.11 | 7.64 | 10.10 | 0.07 | 5.76 | MAY2001 | 13.92 | SEP1974 |
| <i>CENTRAL COUNTIES</i> | | | | | | | | | | | | |
| Loughman | 91.72 | 92.17 | 92.52 | -0.45 | -0.80 | 91.56 | 92.78 | 0.16 | 88.19 | AUG2000 | 95.79 | SEP2004 |
| Lutz-Lake Fern | 56.95 | 58.03 | 55.34 | -1.08 | 1.61 | 56.66 | 57.51 | 0.29 | 52.64 | NOV2009 | 67.92 | MAY1966 |
| ROMP 50 Shallow | 39.24 | 41.62 | 41.21 | -2.38 | -1.97 | 41.32 | 41.83 | -2.08 | 38.01 | OCT2010 | 44.05 | SEP2001 |
| SR 33 & Combee Road | 132.60 | 133.84 | 131.59 | -1.24 | 1.01 | 133.29 | 134.73 | -0.69 | 129.16 | FEB2001 | 136.97 | OCT1995 |
| SR 577 Shallow | 125.27 | 125.03 | 122.78 | 0.24 | 2.48 | 121.03 | 124.52 | 4.24 | 110.18 | FEB1991 | 129.02 | AUG2003 |
| Tarpon Road Shallow | M | M | 11.43 | M | M | 11.41 | 13.62 | M | 9.31 | JUN1978 | 16.30 | OCT2006 |
| USGS P-48 | 101.79 | 102.36 | 100.16 | -0.57 | 1.63 | 98.73 | 100.58 | 3.06 | 67.61 | JUN1963 | 104.79 | SEP2004 |
| <i>SOUTHERN COUNTIES</i> | | | | | | | | | | | | |
| Edgeville 4 Shallow | 66.50 | 68.25 | 66.16 | -1.75 | 0.34 | 66.99 | 68.11 | -0.49 | 63.85 | MAY1975 | 69.93 | SEP1971 |
| ROMP 26 Shallow | 70.56 | 71.98 | 69.84 | -1.42 | 0.72 | 68.97 | 71.11 | 1.59 | 64.32 | JUN1999 | 75.11 | JUN1982 |
| SR 74 | 15.92 | 17.17 | 16.49 | -1.25 | -0.57 | 15.18 | 15.94 | 0.74 | 12.66 | MAY2000 | 18.32 | JUL2001 |

Intermediate and Floridan Aquifers

In October, 50 of the 51 intermediate and Floridan aquifer wells monitored for this report recorded water level decreases. Regionally, average water levels decreased in the northern, central and southern regions of the District by 0.82 foot, 1.94 feet and 5.92 feet, respectively. District-wide, the mean water level in the intermediate and Floridan aquifer wells decreased 3.11 feet.

During October, water levels in 39 of the 51 intermediate and Floridan aquifer wells were lower than those measured in October 2009. Regionally, the mean water level in the northern and southern regions was 0.07 foot and 2.40 feet, respectively, lower than October 2009 levels. In the central region, water levels were 0.13 foot higher than last year's levels. District-wide, average water levels in intermediate and Floridan aquifer wells were 0.87 foot lower than last year.

For October, 37 of the 51 intermediate and Floridan aquifer wells had levels below-normal, compared to historical monthly levels. Regionally, the average water level in the northern and southern regions was 0.67 foot and 4.26 feet, respectively, below the bottom of the normal range. The average water level in the central region was 1.23 feet above the bottom of the normal range. District-wide, the average water level in intermediate and Floridan aquifer wells was 1.34 feet below the bottom of the normal range.

SUMMARY OF INTERMEDIATE AND FLORIDAN AQUIFER LEVELS IN REPRESENTATIVE WELLS, OCTOBER 2010

Regional Summary:

| <i>Region</i> | <i>OCT 2010 Mean Elevation</i> | <i>OCT 2010 Relation to POR Median</i> | <i>OCT 2010 Relation to 25th Percentile</i> | <i>OCT 2010 Mean Percentile Rank</i> | <i>SEP 2010 Mean Percentile Rank</i> | <i>OCT 2009 Mean Percentile Rank</i> |
|-------------------|--|--|---|--|--|--|
| Northern Counties | 36.72 | -1.87 | -0.37 | 21% | 36% | 25% |
| Central Counties | 55.50 | -1.59 | 0.88 | 32% | 50% | 37% |
| Southern Counties | 29.33 | -4.68 | -2.16 | 10% | 34% | 20% |

Regional Wells Summary:

| <i>NORTHERN COUNTIES</i> | <i>OCT 2010 Elev</i> | <i>SEP 2010 Elev</i> | <i>OCT 2009 Elev</i> | <i>Change From SEP 2010</i> | <i>Change From OCT 2009</i> | <i>OCT Historical Low Normal</i> | <i>OCT Historical High Normal</i> | <i>Departure From Low Normal</i> | <i>OCT 2010 Percentile Rank</i> | <i>Period of Record Low</i> | <i>Record Low Date</i> | <i>Period of Record High</i> | <i>Record High Date</i> |
|----------------------------|------------------------------|------------------------------|------------------------------|---|---|--|---|--|---|-------------------------------------|--------------------------------|--------------------------------------|---------------------------------|
| CE 14 Dunnellon Deep | 38.90 | 39.99 | 36.91 | -1.09 | 1.99 | 39.44 | 44.57 | -0.54 | 22% | 34.14 | JUN2001 | 50.90 | MAR1998 |
| Chassahowitzka 1 Deep | 6.15 | 6.53 | 6.21 | -0.38 | -0.06 | 6.58 | 7.72 | -0.43 | 11% | 4.68 | JUN2001 | 9.75 | SEP2004 |
| Inverness Dot Fldn | 27.68 | 28.12 | 26.87 | -0.44 | 0.81 | 28.70 | 32.95 | -1.02 | 19% | 21.63 | JUN2001 | 37.80 | OCT1982 |
| Mascotte Deep | 98.19 | 99.37 | 99.19 | -1.18 | -1.00 | 99.33 | 100.88 | -1.14 | 7% | 93.61 | JUN2000 | 102.66 | SEP1988 |
| ROMP 103 Suwannee/Ocala | 38.36 | 38.98 | 38.82 | -0.62 | -0.46 | 39.19 | 45.03 | -0.83 | 17% | 33.75 | MAY2009 | 51.03 | OCT2004 |
| ROMP 107 Ocala/Avon Park | 11.18 | 11.40 | 11.03 | -0.22 | 0.15 | 12.08 | 15.10 | -0.90 | 15% | 8.05 | AUG2007 | 19.78 | NOV1982 |
| ROMP 134 Ocala/Avon Park | 44.70 | 44.99 | 43.67 | -0.29 | 1.03 | 45.44 | 51.01 | -0.74 | 24% | 38.71 | JUL2002 | 57.37 | APR1998 |
| ROMP 89 Ocala | 89.70 | 92.01 | 90.82 | -2.31 | -1.12 | 89.98 | 92.14 | -0.28 | 21% | 82.42 | JUN2000 | 94.99 | DEC1997 |
| ROMP 97 Avon Park | 16.63 | 17.24 | 17.10 | -0.61 | -0.47 | 16.73 | 22.72 | -0.10 | 23% | 11.84 | MAY2009 | 26.24 | SEP2004 |
| ROMP Tr 124 Avon Park | 3.08 | 3.77 | 3.10 | -0.69 | -0.02 | 2.70 | 3.35 | 0.38 | 56% | 0.77 | SEP2004 | 6.11 | AUG1985 |
| ROMP Tr 21-2 Ocala/Avon Pk | 1.96 | 2.30 | 2.07 | -0.34 | -0.11 | 1.66 | 2.28 | 0.30 | 51% | 0.03 | FEB2001 | 4.56 | NOV1987 |
| Sumter 13 JC 59 Up Fldn | 39.52 | 40.79 | 41.01 | -1.27 | -1.49 | 40.65 | 43.39 | -1.13 | 10% | 36.84 | JUL2007 | 47.01 | JUN2003 |
| Webster City Fldn | 79.48 | 80.66 | 79.55 | -1.18 | -0.07 | 80.47 | 85.50 | -0.99 | 13% | 74.48 | JUL1981 | 88.77 | SEP2005 |
| Weeki Wachee Deep | 14.36 | 15.22 | 14.50 | -0.86 | -0.14 | 16.32 | 21.39 | -1.96 | 6% | 10.67 | MAY2009 | 23.91 | AUG1984 |

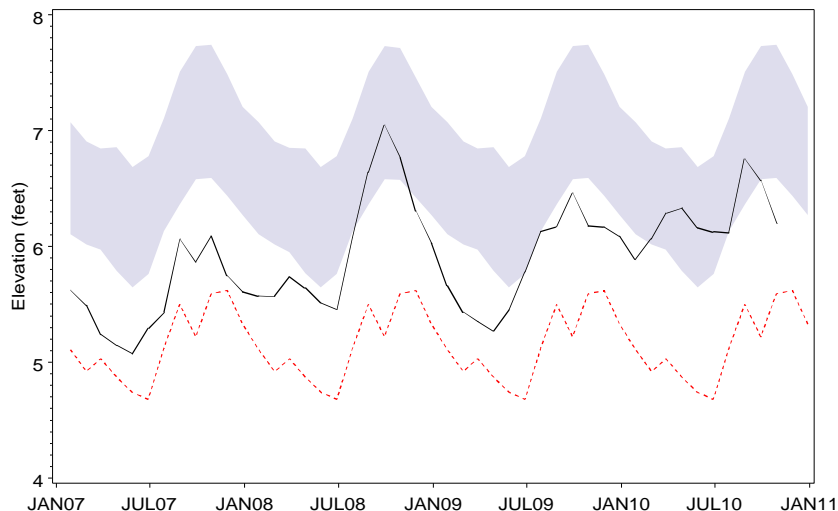
Regional Wells Summary (continued):

| | OCT 2010 Elev | SEP 2010 Elev | OCT 2009 Elev | Change From SEP 2010 | Change From OCT 2009 | OCT Historical Low Normal | OCT Historical High Normal | Departure From Low Normal | OCT 2010 Percentile Rank | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|------------------------------|---------------------|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|------------------------------------|-----------------------------------|----------------------------|-----------------------|-----------------------------|------------------------|
| CENTRAL COUNTIES | | | | | | | | | | | | | |
| Bexley 2 Fldn | 61.29 | 61.98 | 62.04 | -0.69 | -0.75 | 60.67 | 62.13 | 0.62 | 46% | 56.08 | JUN2000 | 64.07 | SEP1988 |
| Hills State Pk Parking Deep | 37.35 | 38.54 | 39.31 | -1.19 | -1.96 | 38.01 | 40.51 | -0.66 | 7% | 35.35 | JUN2000 | 47.42 | DEC1997 |
| Lk Alfred Deep nr Lake Alfre | 126.27 | 127.40 | 125.95 | -1.13 | 0.32 | 126.76 | 128.82 | -0.49 | 18% | 120.14 | MAY1981 | 131.62 | OCT1960 |
| Lykes Pasco Fldn | 65.82 | 66.99 | 64.65 | -1.17 | 1.17 | 64.42 | 69.05 | 1.40 | 44% | 56.94 | JUN2000 | 75.78 | OCT2004 |
| Masaryktown Deep | 26.78 | 26.43 | 27.02 | 0.35 | -0.24 | 31.15 | 43.52 | -4.37 | 9% | 21.89 | AUG1994 | 50.32 | SEP1984 |
| Moon Lake Deep | 30.79 | 31.51 | 30.04 | -0.72 | 0.75 | 30.01 | 31.52 | 0.78 | 54% | 26.10 | JUN2000 | 34.38 | MAR1998 |
| Pasco Well 13 nr Drexel Fldn | 72.16 | 72.77 | 71.13 | -0.61 | 1.03 | 72.54 | 74.08 | -0.38 | 18% | 68.00 | JUN2001 | 77.14 | JUL1960 |
| Pinellas 665 Fldn | 8.81 | 10.29 | 9.27 | -1.48 | -0.46 | 9.65 | 11.99 | -0.84 | 9% | 6.70 | MAY2006 | 14.79 | SEP1959 |
| ROMP 45 Avon Park | 69.44 | 77.21 | 69.71 | -7.77 | -0.27 | 61.13 | 72.70 | 8.31 | 53% | 31.75 | MAY1981 | 84.42 | OCT2004 |
| ROMP 50 Avon Park | 3.49 | 7.23 | 6.13 | -3.74 | -2.64 | 4.24 | 9.17 | -0.75 | 15% | -17.09 | JAN2005 | 14.95 | AUG1982 |
| ROMP 59 Swnn/AvPk | 73.10 | 78.02 | 70.62 | -4.92 | 2.48 | 61.30 | 73.14 | 11.80 | 75% | 33.33 | MAY1981 | 85.92 | OCT2004 |
| ROMP 66 Tampa | 17.55 | 18.67 | 18.77 | -1.12 | -1.22 | 17.38 | 19.94 | 0.17 | 28% | 12.04 | JUN1977 | 24.51 | DEC1997 |
| ROMP 87 Avon Park | 102.04 | 103.57 | 102.34 | -1.53 | -0.30 | 101.98 | 103.59 | 0.06 | 26% | 94.90 | JUN2000 | 106.30 | FEB1998 |
| ROMP 93 Swnn/AvPk | 68.85 | 69.81 | 66.29 | -0.96 | 2.56 | 67.35 | 73.64 | 1.50 | 36% | 59.02 | JUN2001 | 76.60 | SEP1982 |
| SR 52 Deep W nr Fivay Jct | 52.79 | 53.56 | 52.90 | -0.77 | -0.11 | 52.13 | 53.42 | 0.66 | 49% | 48.08 | JUN2000 | 56.75 | SEP1988 |
| SR 577 Deep | 84.95 | 87.13 | 82.89 | -2.18 | 2.06 | 86.98 | 93.74 | -2.03 | 16% | 72.76 | JUN2000 | 98.51 | MAR1998 |
| Sanlon Ranch Fldn | 93.84 | 98.13 | 93.17 | -4.29 | 0.67 | 87.21 | 95.88 | 6.63 | 60% | 66.38 | MAY1975 | 105.27 | OCT2004 |
| Tarpon Rd Deep | 9.96 | 10.93 | 10.69 | -0.97 | -0.73 | 10.20 | 11.16 | -0.24 | 16% | 6.95 | MAY2007 | 13.06 | SEP1971 |

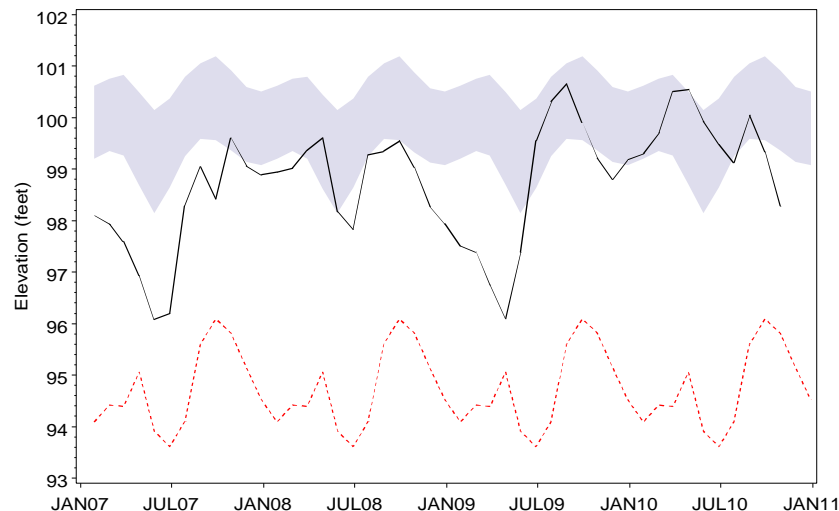
| | OCT 2010 Elev | SEP 2010 Elev | OCT 2009 Elev | Change From SEP 2010 | Change From OCT 2009 | OCT Historical Low Normal | OCT Historical High Normal | Departure From Low Normal | OCT 2010 Percentile Rank | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|---------------------------|---------------------|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|------------------------------------|-----------------------------------|----------------------------|-----------------------|-----------------------------|------------------------|
| SOUTHERN COUNTIES | | | | | | | | | | | | | |
| Big Slough Deep | 33.43 | 34.69 | 34.01 | -1.26 | -0.58 | 33.38 | 34.49 | 0.05 | 28% | 26.82 | MAY2006 | 36.12 | OCT1995 |
| Edgeville 3 Deep | 21.29 | 30.89 | 25.61 | -9.60 | -4.32 | 29.74 | 36.23 | -8.45 | 1% | 1.13 | MAY2000 | 46.40 | OCT1965 |
| Englewood 14 Deep | 5.77 | 7.74 | 6.22 | -1.97 | -0.45 | 4.26 | 7.07 | 1.51 | 59% | -0.97 | FEB2001 | 11.37 | SEP1974 |
| Florida Cities Test 1 | 0.82 | 9.10 | 4.90 | -8.28 | -4.08 | 11.49 | 19.78 | -10.67 | 1% | -18.63 | MAY1976 | 25.89 | SEP1977 |
| Kibler Deep | -4.39 | 6.71 | 2.85 | -11.10 | -7.24 | 8.62 | 18.53 | -13.01 | 1% | -29.95 | MAY2000 | 29.30 | AUG1978 |
| Manasota 14 Deep | 17.92 | 18.98 | 18.14 | -1.06 | -0.22 | 19.94 | 21.63 | -2.02 | 2% | 14.88 | JUL2004 | 22.70 | NOV1971 |
| Marshall Deep | 40.85 | 47.71 | 41.07 | -6.86 | -0.22 | 43.64 | 49.65 | -2.79 | 11% | 8.96 | JUN2000 | 55.24 | MAR1964 |
| ROMP 16 Ocala | 45.75 | 48.92 | 45.91 | -3.17 | -0.16 | 47.49 | 49.71 | -1.74 | 6% | 28.94 | JAN2001 | 51.21 | SEP1995 |
| ROMP 26 Swnn/AvPk | 41.40 | 48.03 | 41.98 | -6.63 | -0.58 | 44.71 | 48.80 | -3.31 | 6% | 19.48 | JAN2010 | 51.28 | OCT1979 |
| ROMP 28X Swnn/AvPk | 66.70 | 69.13 | 67.26 | -2.43 | -0.56 | 68.07 | 71.22 | -1.37 | 12% | 57.24 | JAN2010 | 74.68 | OCT1995 |
| ROMP 30 Swnn/AvPk | 44.72 | 53.91 | 47.02 | -9.19 | -2.30 | 46.16 | 53.93 | -1.44 | 17% | -0.20 | JUN2000 | 60.52 | MAR1998 |
| ROMP 31 Swnn/AvPk | 39.82 | 49.36 | 41.91 | -9.54 | -2.09 | 41.17 | 50.15 | -1.35 | 18% | -8.20 | JUN2000 | 57.92 | MAR1998 |
| ROMP 32 L Ocala/Avon Park | 18.95 | 31.16 | 23.07 | -12.21 | -4.12 | 27.41 | 35.43 | -8.46 | 2% | -17.54 | JUN2000 | 44.72 | FEB1998 |
| ROMP 43XX Avon Park | 84.46 | 87.37 | 85.52 | -2.91 | -1.06 | 86.18 | 90.88 | -1.72 | 14% | 70.93 | JAN2010 | 94.60 | MAR1998 |
| ROMP Tr 5-1 Suwannee | 18.56 | 20.51 | 19.19 | -1.95 | -0.63 | 19.67 | 21.24 | -1.11 | 5% | 13.26 | JUN2000 | 23.00 | SEP1983 |
| ROMP Tr 7-1 Tampa | 16.22 | 19.63 | 18.94 | -3.41 | -2.72 | 17.95 | 20.17 | -1.73 | 3% | 10.08 | JUN2000 | 23.56 | SEP2003 |
| Sarasota 11th St Deep | 5.32 | 8.91 | 8.88 | -3.59 | -3.56 | 9.14 | 12.29 | -3.82 | 1% | 0.39 | MAY2000 | 30.76 | MAY2010 |
| Sarasota 9 Deep | 14.12 | 21.68 | 19.02 | -7.56 | -4.90 | 22.77 | 31.37 | -8.65 | 1% | 0.31 | JUN2000 | 38.76 | MAR1931 |
| Verna Test 0-1 | 5.60 | 15.37 | 11.42 | -9.77 | -5.82 | 16.52 | 24.10 | -10.92 | 1% | -18.05 | MAY2000 | 33.32 | JAN1984 |

HYDROGRAPHS OF REPRESENTATIVE INTERMEDIATE AND FLORIDAN AQUIFER WELLS JANUARY 2007 TO OCTOBER 2010

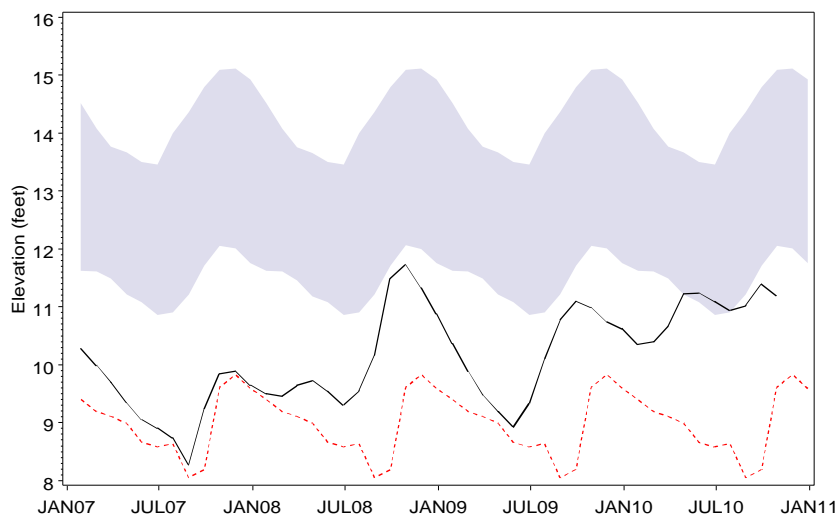
Chassahowitzka 1 Deep
Northern Counties



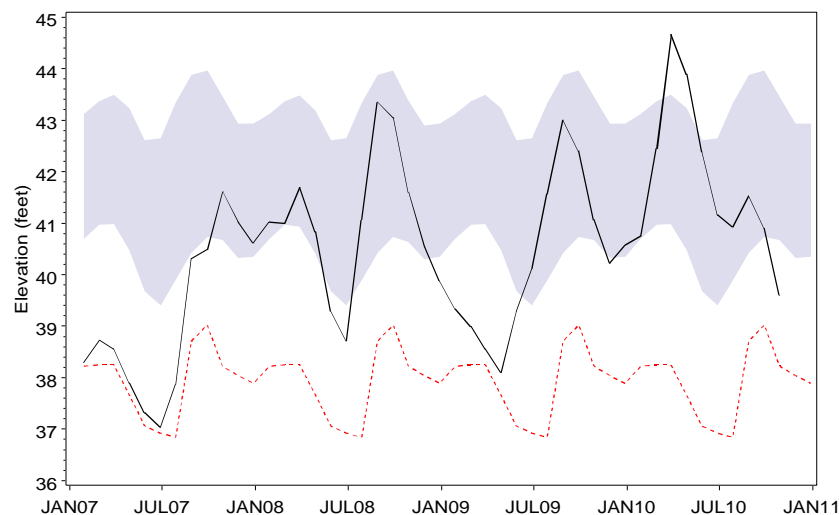
Mascotte Deep
Northern Counties



ROMP 107 Ocala/Avon Park
Northern Counties



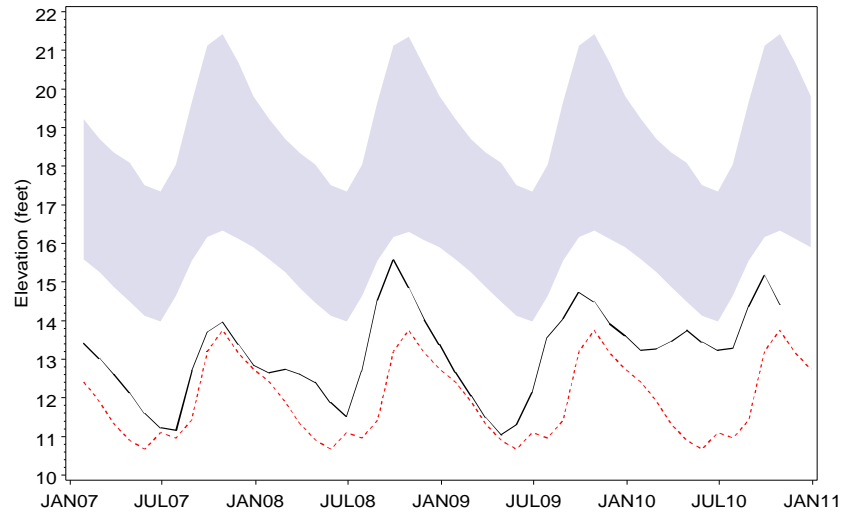
Sumter 13 JC 59 Up Fldn
Northern Counties



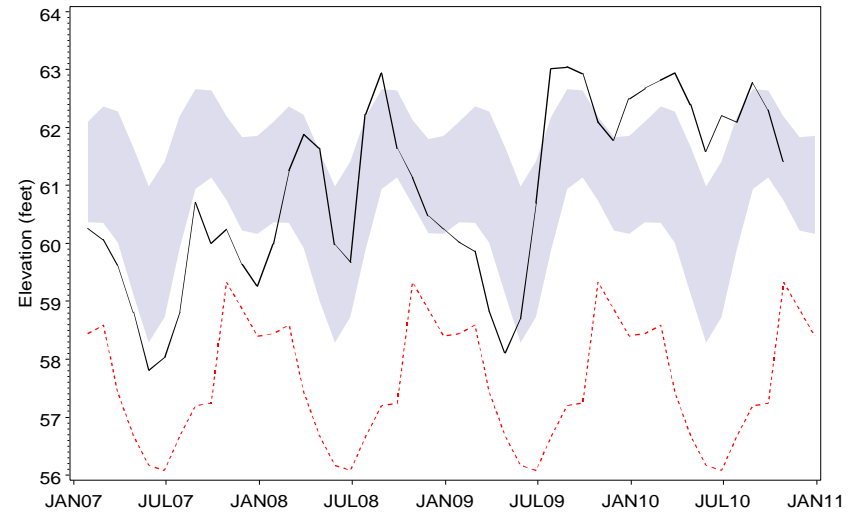
— Average Monthly Elevation - - - - - POR Monthly Low Normal Range

HYDROGRAPHS OF REPRESENTATIVE INTERMEDIATE AND FLORIDAN AQUIFER WELLS JANUARY 2007 TO OCTOBER 2010

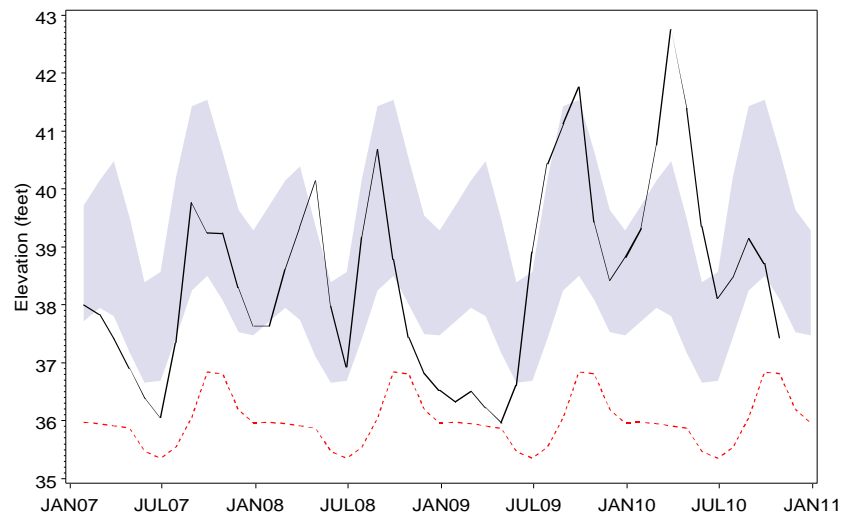
Weeki Wachee Deep
Northern Counties



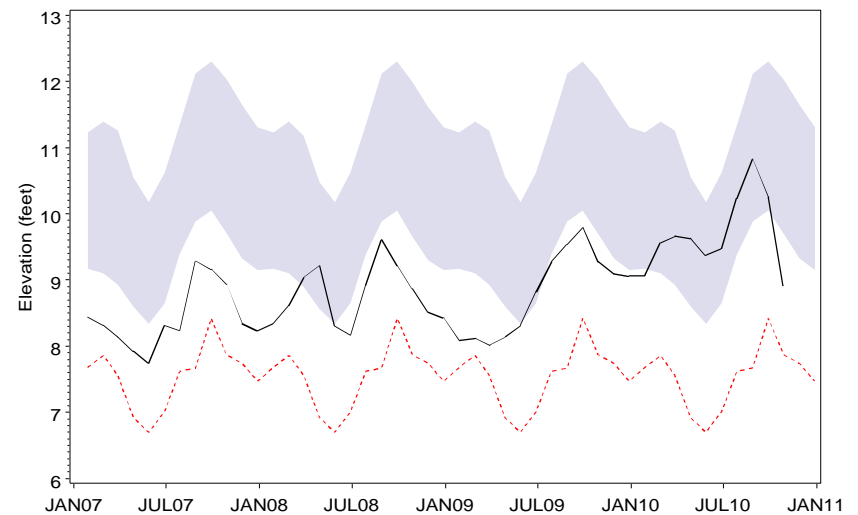
Bexley 2 Fldn
Central Counties



Hills State Pk Parking Deep
Central Counties



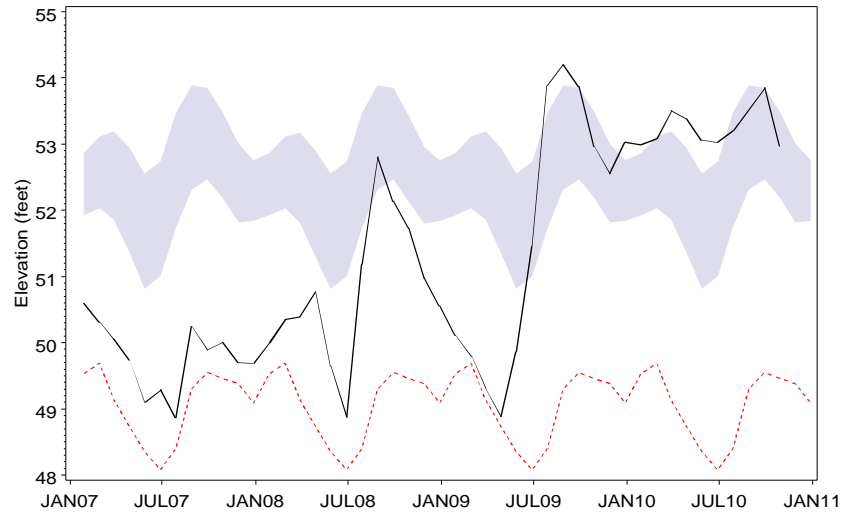
Pinellas 665 Fldn
Central Counties



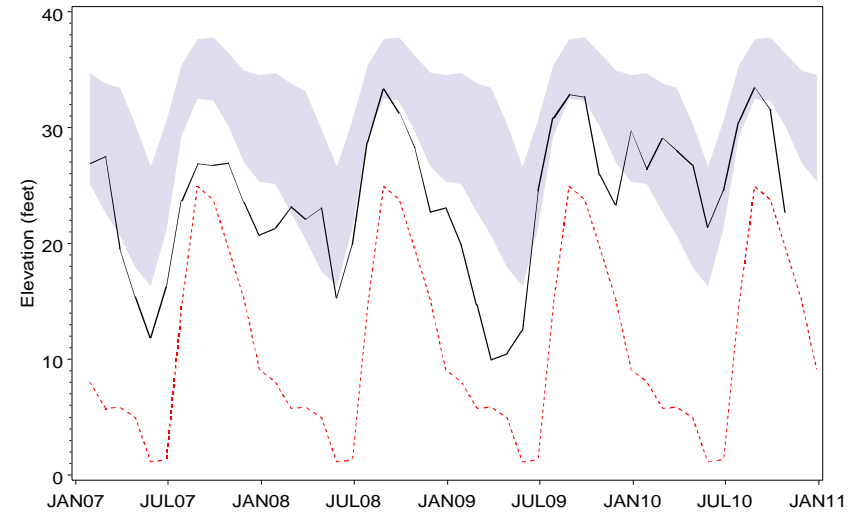
— Average Monthly Elevation - - - - - POR Monthly Low Normal Range

HYDROGRAPHS OF REPRESENTATIVE INTERMEDIATE AND FLORIDAN AQUIFER WELLS JANUARY 2007 TO OCTOBER 2010

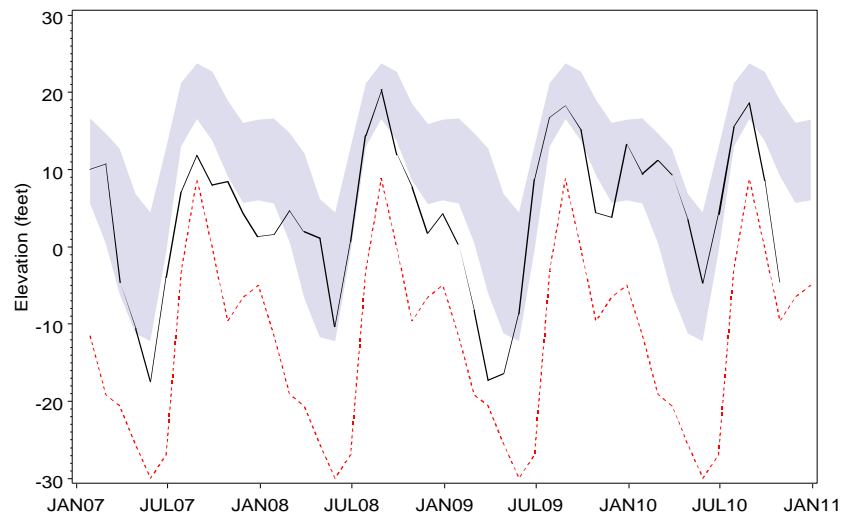
SR 52 Deep W nr Fivay Jct
Central Counties



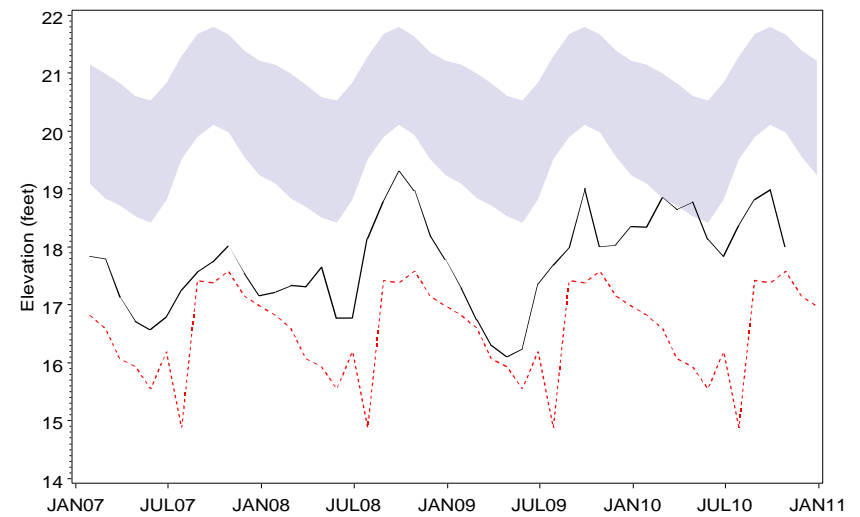
Edgeville 3 Deep
Southern Counties



Kibler Deep
Southern Counties



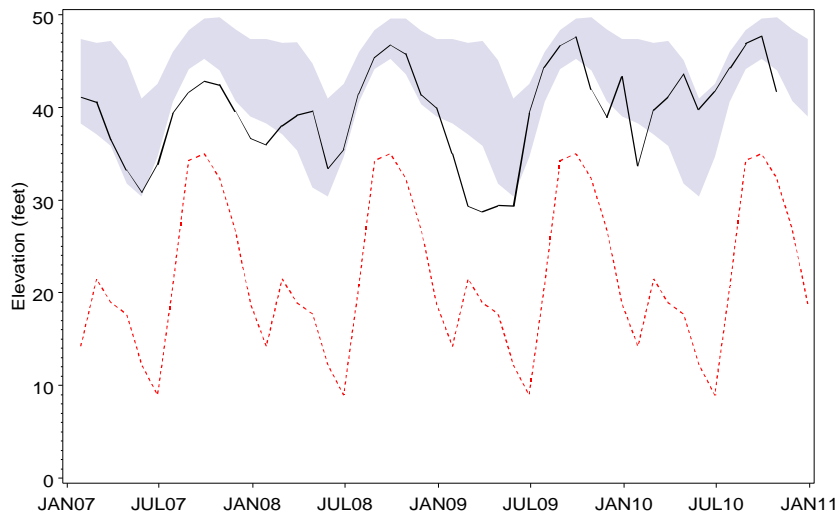
Manasota 14 Deep
Southern Counties



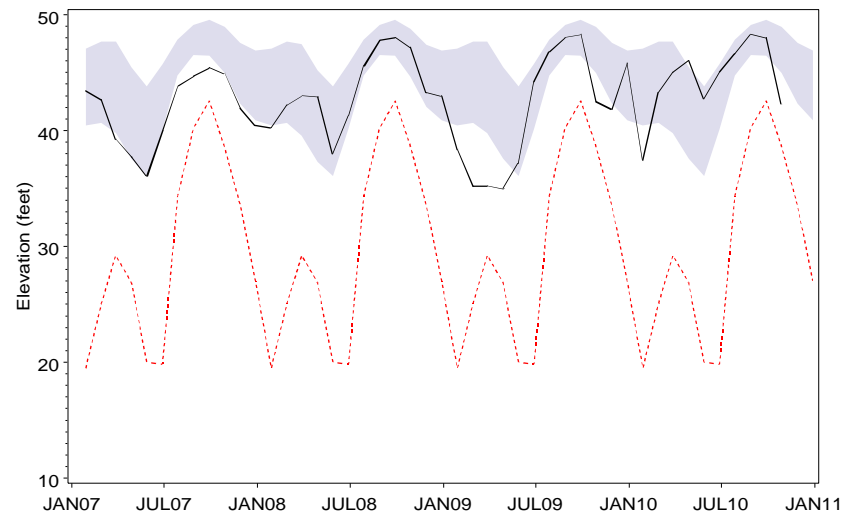
— Average Monthly Elevation - - - - - POR Monthly Low Normal Range

HYDROGRAPHS OF REPRESENTATIVE INTERMEDIATE AND FLORIDAN AQUIFER WELLS JANUARY 2007 TO OCTOBER 2010

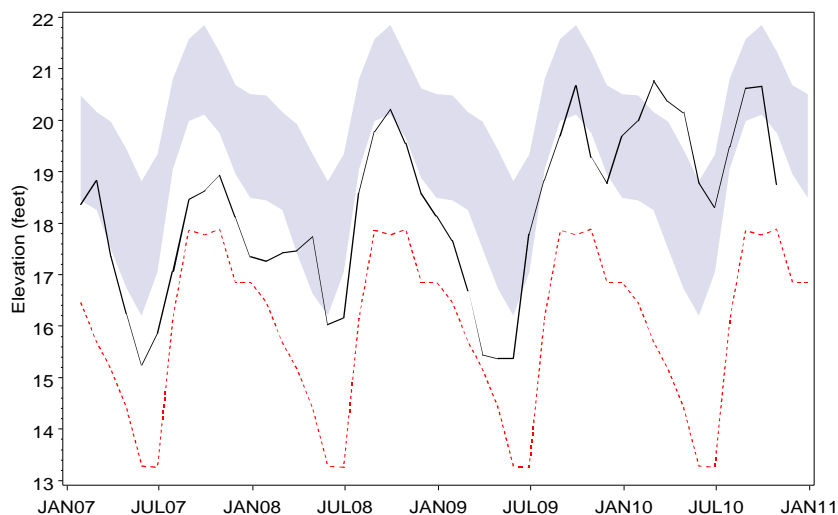
Marshall Deep
Southern Counties



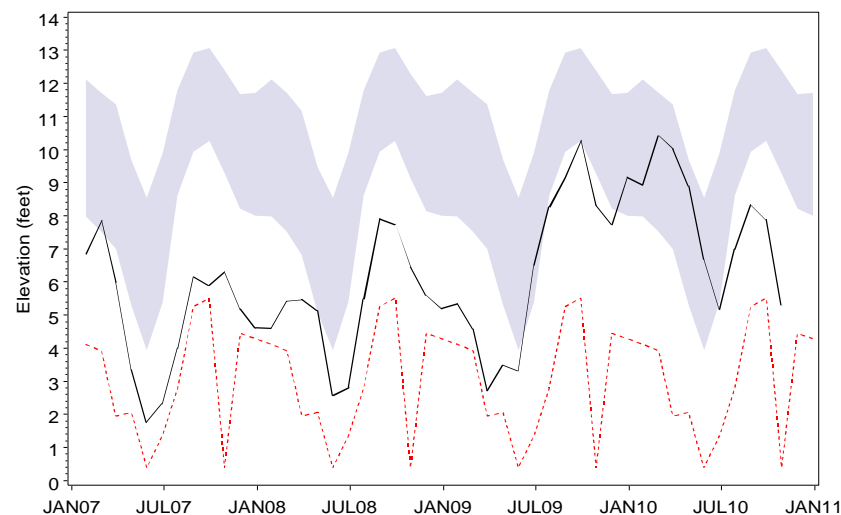
ROMP 26 Suwannee/Avon Park
Southern Counties



ROMP Tr 5-1 Suwannee
Southern Counties

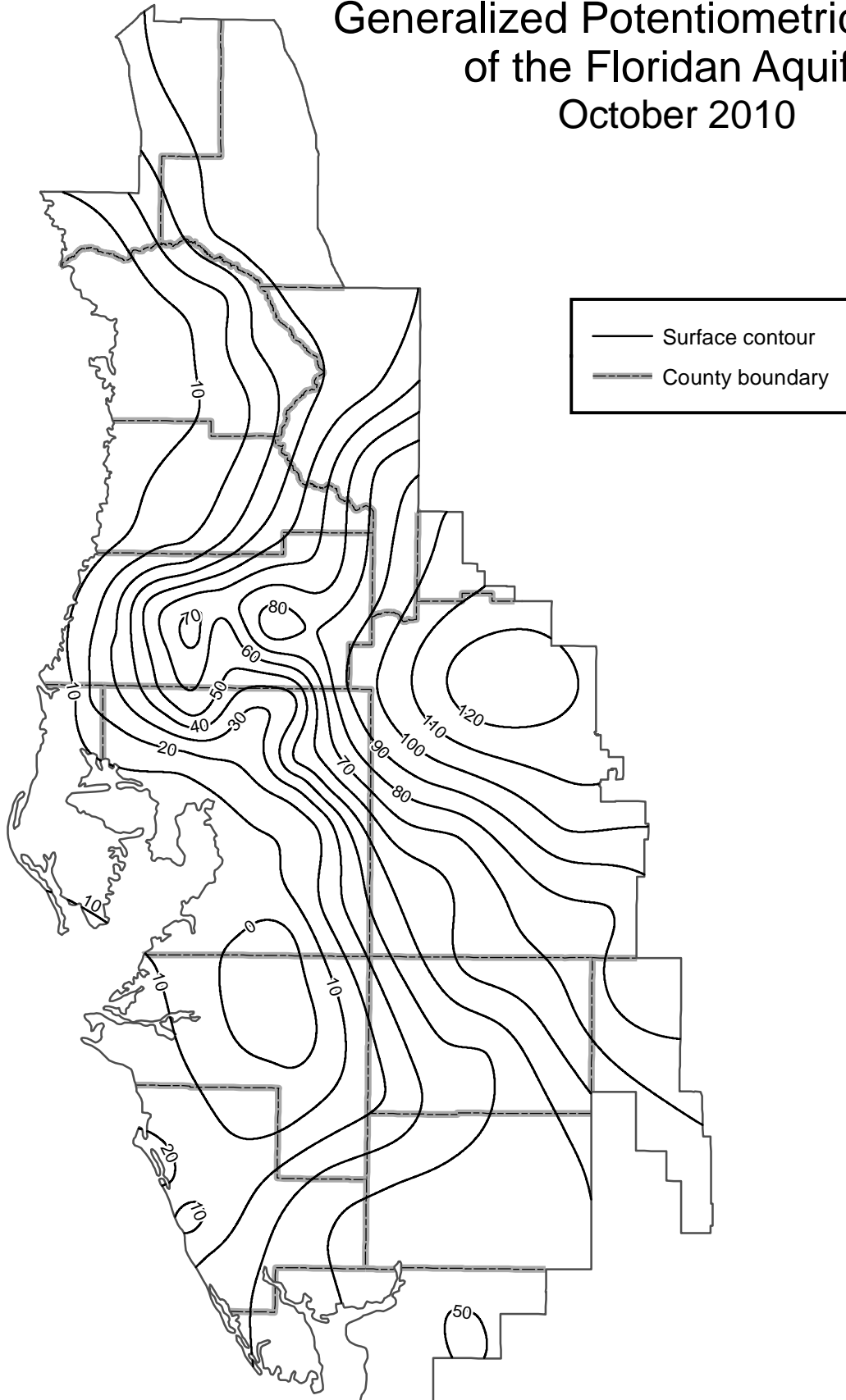


Sarasota 11th St Deep
Southern Counties



— Average Monthly Elevation - - - - - POR Monthly Low Normal Range

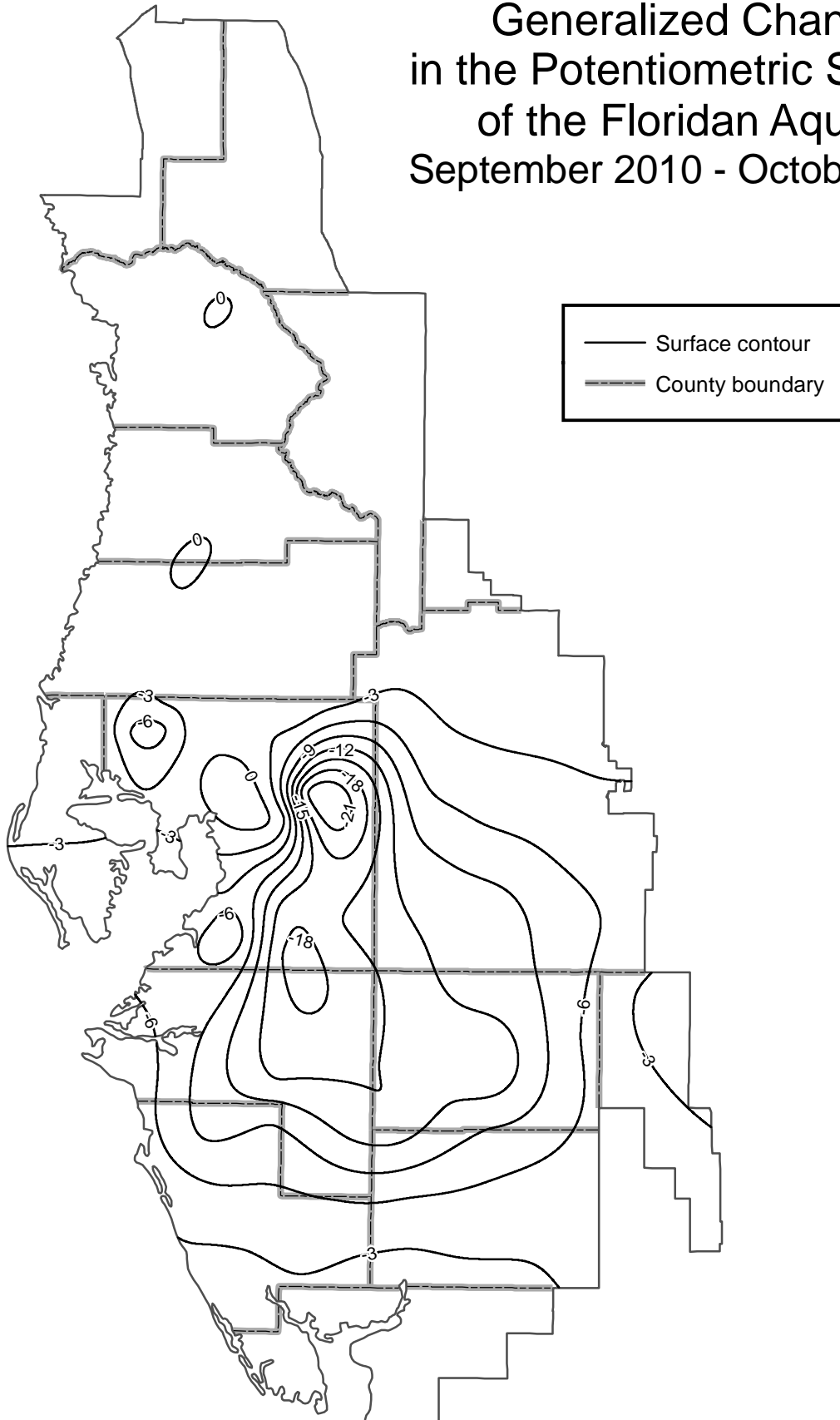
Generalized Potentiometric Surface of the Floridan Aquifer October 2010



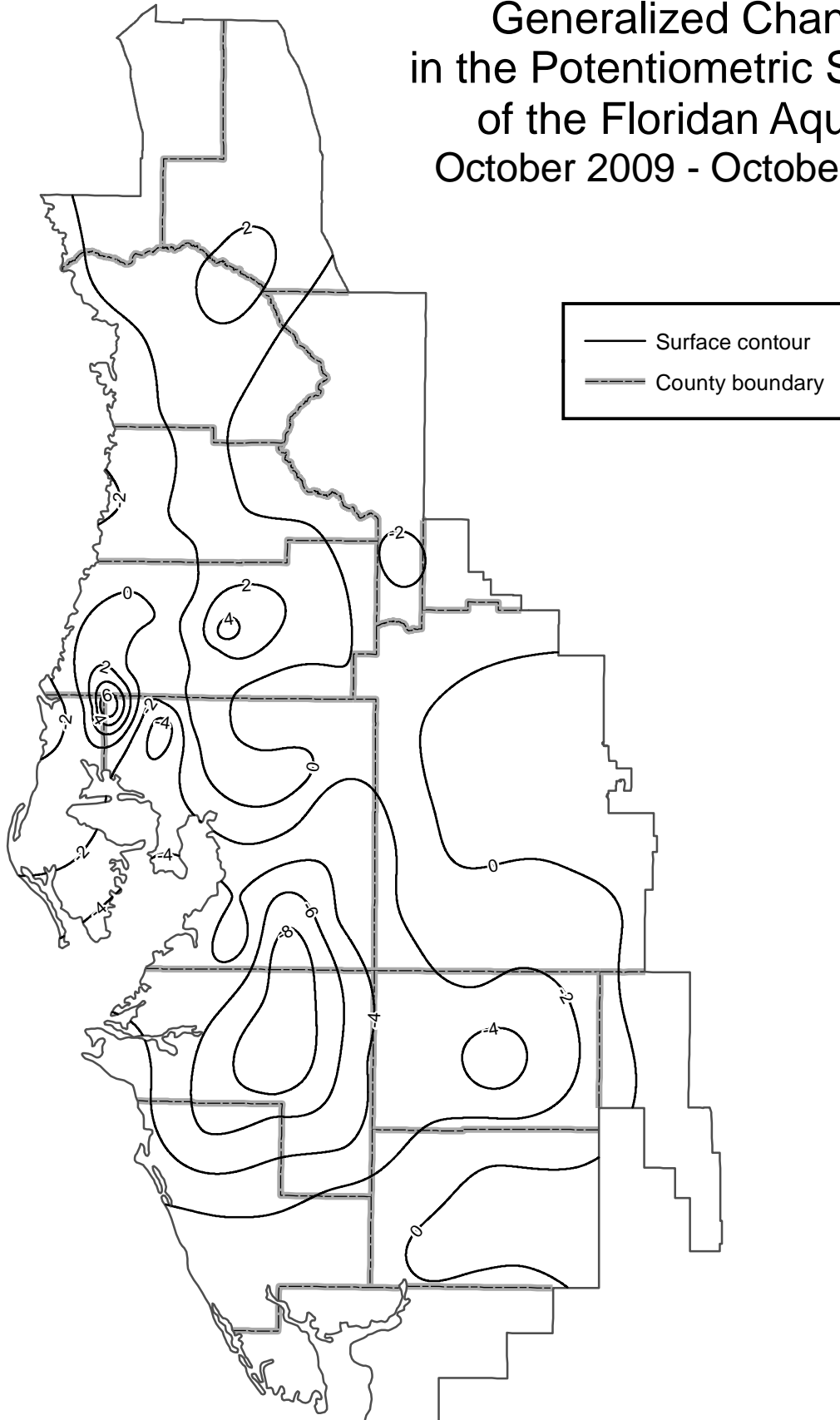
Compiled by M. L. Crowell

Contour interval = 10 feet

Generalized Change in the Potentiometric Surface of the Floridan Aquifer September 2010 - October 2010



Generalized Change in the Potentiometric Surface of the Floridan Aquifer October 2009 - October 2010



Public Supply Wellfields

Water levels are measured in 21 monitor wells (9 surficial, 12 intermediate and Floridan aquifer wells) located at nine public supply wellfields in the District. Thirteen of the 21 monitor wells have water levels measured monthly, two biweekly, and six weekly. Monthly data are tabulated to compare recent water levels to historical means.

During October, average water levels decreased in seven of the twelve intermediate and Floridan wells and seven of the nine surficial wells. Average water levels measured in the intermediate and Floridan wells decreased 1.07 feet, while levels measured in surficial wells decreased 0.58 foot.

In October, average water levels in six of the twelve intermediate and Floridan wells and seven of the nine surficial wells were above those measured in October 2009. Water levels measured in the intermediate and Floridan wells averaged 0.57 foot above last year's levels, while surficial water levels averaged 2.11 feet above October 2009 levels.

At the end of October, average water levels in nine of the twelve intermediate and Floridan wells and all nine surficial wells were above the low normal level, compared to historical monthly levels. Water levels measured in the intermediate and Floridan wells averaged 5.91 feet above the base of the normal range, while levels in the surficial wells averaged 4.05 feet above the base of the normal range.

SUMMARY OF GROUNDWATER LEVELS IN REPRESENTATIVE WELLFIELD WELLS, OCTOBER 2010

| | OCT 2010 Elev | SEP 2010 Elev | OCT 2009 Elev | Change From SEP 2010 | Change From OCT 2009 | OCT Historical Low Normal | OCT Historical High Normal | Departure From Low Normal | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|-----------------------------|---------------------|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|------------------------------------|----------------------------|-----------------------|-----------------------------|------------------------|
| <i>INT/FLORIDAN WELLS</i> | | | | | | | | | | | | |
| Cosme-Odesa Cosme No. 3 | 29.15 | 30.88 | 27.18 | -1.73 | 1.97 | 23.27 | 26.95 | 5.88 | 10.94 | MAY2000 | 88.88 | OCT1986 |
| Cross Bar WRW | 40.76 | 40.72 | 41.73 | 0.05 | -0.96 | 41.72 | 55.08 | -0.96 | 33.88 | DEC1993 | 61.65 | AUG1984 |
| Cypress Crk TMR-1 Deep | 60.05 | 59.64 | 57.17 | 0.42 | 2.88 | 53.79 | 60.78 | 6.26 | 36.93 | FEB2001 | 70.87 | JUN1976 |
| Cypress Crk TMR-3 Deep | 57.53 | 59.19 | 55.75 | -1.65 | 1.79 | 52.24 | 57.15 | 5.29 | 34.22 | FEB2001 | 68.74 | JUL1976 |
| Eldridge-Wilde 11 Deep | 24.39 | 25.54 | 16.95 | -1.15 | 7.44 | 11.72 | 16.98 | 12.67 | 0.31 | SEP1990 | 25.54 | SEP2010 |
| Eldridge-Wilde 2S | 22.94 | 22.67 | 20.01 | 0.28 | 2.94 | 8.97 | 17.11 | 13.97 | -1.16 | JUN2000 | 25.24 | OCT1982 |
| Morris Bridge 3A Deep | 29.19 | 32.65 | 30.46 | -3.47 | -1.27 | 29.19 | 32.74 | -0.00 | 17.91 | MAY2009 | 36.99 | DEC1997 |
| Section 21 Hills 13 Deep | 44.34 | 45.67 | 45.45 | -1.33 | -1.11 | 36.11 | 44.96 | 8.23 | 21.88 | JUN2002 | 52.08 | JUL1944 |
| South Pasco 42 | 55.03 | 50.34 | 55.26 | 4.69 | -0.24 | 42.30 | 48.21 | 12.73 | 27.98 | MAY2002 | 56.79 | SEP2003 |
| South Pasco SR 54 Deep | 56.07 | 52.82 | 56.41 | 3.25 | -0.34 | 46.23 | 54.04 | 9.84 | 33.49 | MAY2002 | 57.94 | SEP2003 |
| Starkey Regional | 35.54 | 36.46 | 34.84 | -0.92 | 0.70 | 31.88 | 34.49 | 3.66 | 24.97 | JUN2000 | 37.55 | SEP2004 |
| Verna 08 | 2.17 | 13.45 | 9.13 | -11.28 | -6.96 | 8.84 | 21.94 | -6.67 | -24.32 | MAY1989 | 43.27 | APR1964 |
| <i>SURFICIAL WELLS</i> | | | | | | | | | | | | |
| Cosme-Odesa IC-6 | 37.13 | 38.94 | 37.64 | -1.81 | -0.51 | 36.80 | 38.31 | 0.33 | 31.91 | JUL1973 | 42.72 | SEP1988 |
| Cross Bar SERW | 60.36 | 61.04 | 59.12 | -0.68 | 1.24 | 59.21 | 68.79 | 1.15 | 53.09 | JUL1994 | 72.53 | JUL1984 |
| Cypress Crk TMR-1 Shallow | 60.86 | 59.70 | 57.22 | 1.16 | 3.64 | 55.21 | 62.06 | 5.65 | 40.07 | JUN2001 | 69.53 | JUL1976 |
| Cypress Crk TMR-3 Shallow | 57.05 | 56.88 | 53.75 | 0.17 | 3.30 | 53.76 | 60.21 | 3.29 | 53.55 | MAY1997 | 64.80 | JUN2003 |
| Eldridge-Wilde 11 Shallow | 26.92 | 27.27 | 23.42 | -0.35 | 3.50 | 17.35 | 22.92 | 9.57 | 10.77 | JUN1994 | 29.34 | SEP2004 |
| Morris Bridge 3A Shallow | 33.63 | 35.35 | 31.37 | -1.72 | 2.25 | 32.37 | 34.42 | 1.26 | 24.02 | MAY2009 | 39.20 | DEC1997 |
| Section 21 Hills 13 Shallow | 51.14 | 52.08 | 47.22 | -0.94 | 3.92 | 41.11 | 49.64 | 10.03 | 33.81 | MAY2001 | 53.78 | SEP1979 |
| South Pasco SR 54 Shallow | 58.88 | 59.18 | 58.93 | -0.30 | -0.05 | 57.37 | 58.83 | 1.51 | 54.43 | OCT1980 | 60.49 | SEP1998 |
| Starkey 707 | 31.16 | 31.90 | 29.42 | -0.74 | 1.74 | 27.45 | 30.42 | 3.71 | 22.70 | JUN2000 | 33.85 | MAR1998 |

Aquifer Resource Index

The Aquifer Resource Index (ARI) was created to provide information to the media, residents, local governments and other interested parties about current ground-water conditions and how they compare to historical records. The underlying purpose of this index is to provide the public with a gauge of ground-water levels in their area, so they can develop an understanding of the severity and cycles of drought and recovery.

The ARI is derived by comparing current ground-water levels with historical levels for 51 intermediate and Floridan aquifer (deep) monitor wells located throughout the three geographic areas of the District. Monitor wells with an adequate and reliable period-of-record to calculate weekly percentiles were selected for the network.

To determine the ARI value for a geographic area, each well is compared to its respective low-normal value weekly, and the difference is calculated. The weekly differences are used to determine the regional ARI value and the resulting ARI value represents how far water levels in the aquifer have to rise or fall to reach their respective low-normal value. The normal range for the northern region is approximately zero to three feet, zero to five-and-one-half feet for the central region and zero to eight feet for the southern region.

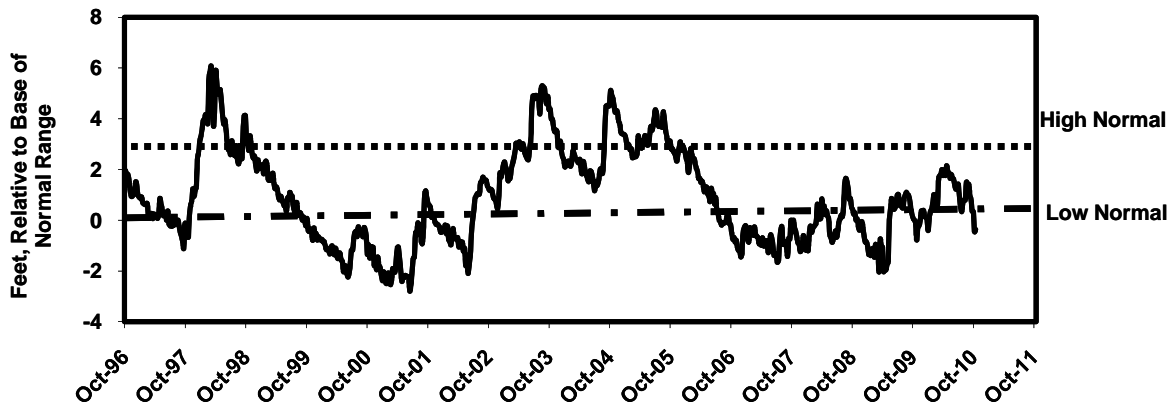
**Weekly Aquifer Resource Index Level, In Feet
(Relative to Bottom of the Normal Range or 25th Percentile)**

| Report Date | Northern Counties | Central Counties | Southern Counties |
|--------------------|------------------------------|-----------------------------|------------------------------|
| 10/04/2010 | 0.35 | 2.71 | 1.06 |
| 10/12/2010 | 0.33 | 1.91 | - 0.25 |
| 10/18/2010 | - 0.45 | 1.39 | - 1.39 |
| 10/25/2010 | - 0.37 | 0.88 | - 2.16 |

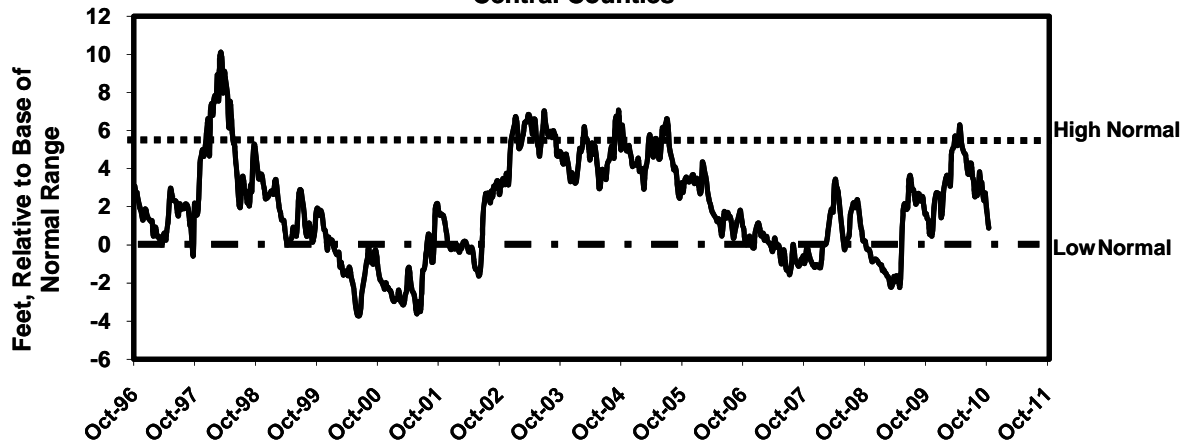
Note: A negative value indicates the regional average is below the "Low-Normal" level

AQUIFER RESOURCE INDEX* **October 2010**

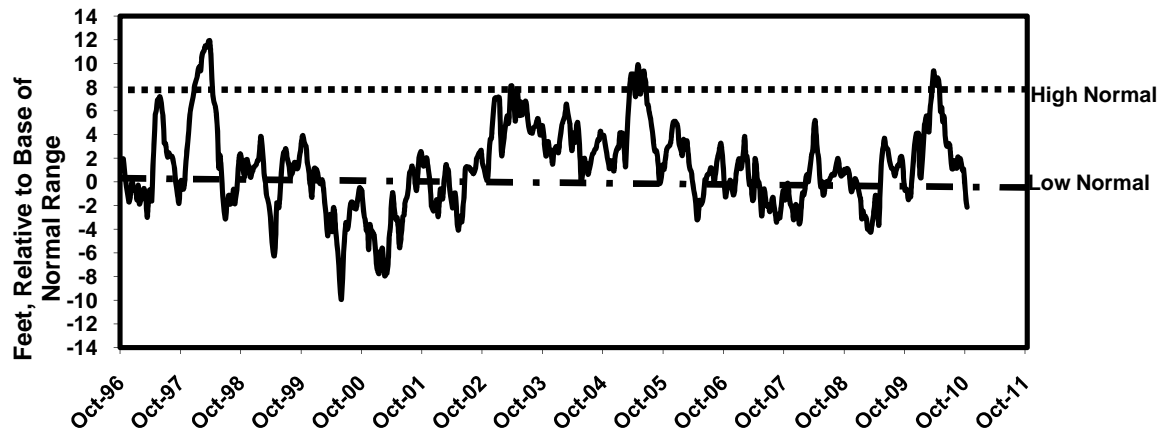
Northern Counties



Central Counties



Southern Counties



*Average Groundwater Level Relative to Low Normal

Compiled By Pam Green

PUBLIC SUPPLY SURFACE WATER RESERVOIRS

CITY OF TAMPA RESERVOIR (Hillsborough River Basin): Constructed in 1924, it is located on the Hillsborough River in Hillsborough County. It is the fourth largest public supply surface water facility in the District. It is the main water supply for the City of Tampa and has a total storage capacity of 1.7 billion gallons (bg). The total usable volume is 1.4 bg, when the reservoir elevation is 22.5 feet NGVD. It is an in-stream reservoir with a depth that ranges between nine and 22 feet. Given this amount of water, it is estimated that a 15-day supply of water is available from this facility over an extended dry period. During periods of low water due to drought conditions, the facility is permitted to pump water from two alternate sources. The first of these two sources is the Tampa Bypass Canal. Water is pumped over the water control structure at S-161 into the Hillsborough River above the dam. The second source is Sulphur Springs, just downstream from the dam, where water is captured at the spring and pumped back behind the dam. Withdrawals from both sources are in strict accordance with pumpage schedules as outlined in the facility's water use permit. When water levels fall below 12 feet NGVD, water cannot be withdrawn because the reservoir level is below the intake pipes. The permitted average daily withdrawal for this facility is 82 mgd, with a permitted maximum daily withdrawal of 104 mgd. Currently, ground water wells are not used to augment this facility. The minimum producible level is 9.00 feet.

PEACE RIVER RESERVOIRS - PEACE RIVER/MANASOTA REGIONAL WATER

SUPPLY AUTHORITY (Peace River Basin): The Peace River reservoirs are located in southwestern DeSoto County. They are an off-stream reservoir system consisting of two reservoirs that store surface water captured from the Peace River during wet periods. The first reservoir, Reservoir 1, was built in 1980 and encompasses approximately 85 acres, has a water depth of approximately 31 feet, and has a total storage capacity of approximately 625 million gallons. The second reservoir, Reservoir 2, was built in 2009, covers about 616 acres, has a water depth of approximately 35 feet, and has a total storage capacity of about 6.0 billion gallons. The PRMRWSA facility ranks as the third largest in the District for total volume storage and supplies water to Charlotte, DeSoto, Manatee and Sarasota counties and to the City of North Port. The facility also uses an aquifer storage recovery (ASR) system for storing treated water pumped from the river. The minimum producible level at Reservoir 1 is Elevation 8.0 feet, while Reservoir 2 is Elevation 27.0 feet.

MANATEE RESERVOIR (Manasota Basin): Completed in 1967 by the damming of the Manatee River, the Manatee Reservoir is the second largest of the six surface-water public supply facilities within the District. Located in Manatee County, this in-stream facility has a storage capacity of 7.5 bg. The service area of the Manatee reservoir is the unincorporated portions of Manatee County, the City of Palmetto and Anna Maria Island, and also the Sarasota SUD#1. This reservoir provides essentially all public supply for Manatee County, with the exception of the City of Bradenton. The total size of this reservoir is 1800 acres with an average depth of 15 feet. With the reservoir full, the facility has approximately 220 days of available water supply. When the surface-water elevation drops below 21.0 feet, water cannot be withdrawn because levels are below the facility's intakes. The permitted average daily withdrawal for this facility is 34.9 mgd, with a permitted peak monthly quantity of 41.9 mgd. The minimum producible level is 21.00 feet.

EVERS RESERVOIR (Manasota Basin): Constructed in 1935 and expanded in 1985, it is located on the Braden River in Manatee County. This is the fifth largest public supply reservoir in the District. Its main service area is the City of Bradenton and approximately 500 customers outside the city. It has a total storage capacity of 1.5 bg. The total size of the facility is 300 acres with an average depth of 12 feet. Water ceases to flow over the dam when the level falls below 3.84 feet NGVD. During the 1985 drought, while expansion of the facility was taking place, the water level dropped to one foot below sea level and demand was still met. Given a completely full reservoir, with no water going over the spillway, it is estimated the facility could supply water for approximately 260 days, with no input from rainfall. The permitted average daily withdrawal for this facility is 6.95 mgd, with a permitted peak monthly quantity of 8.13 mgd. Currently, ground-water wells are not used to augment this facility.

SHELL CREEK RESERVOIR (Peace River Basin): Shell Creek Reservoir, located in Charlotte County, is the sixth largest surface water system within the District. This system was built in 1964 and services the City of Punta Gorda as well as unincorporated areas surrounding the city limits. The Shell Creek Reservoir is fed by two primary tributaries, Shell Creek from the east and Prairie Creek from the northwest. The total drainage area at Hendrickson Dam is 373 square miles. It has a surface area of 800 acres and depths of 10 to 12 feet. Total storage capacity is 765 mg. Even with this low volume of water, personnel at this facility estimate they have approximately 125 days of available supply with no input from rainfall. Water ceases to flow across the weir when surface elevations drop below 5.0 feet NGVD, and at 3.7 feet NGVD water quality becomes a major concern. When surface elevations drop below 1.75 feet NGVD, the water is below the intakes and withdrawal of water is not possible. The permitted average daily withdrawal by this facility is 5.358 mgd, with a permitted peak monthly quantity of 6.901 mgd. The minimum producible level is 1.70 feet.

C.W. BILL YOUNG REGIONAL RESERVOIR - TAMPA BAY WATER (Alafia River Basin): Constructed in early 2005, it is the largest public supply surface water facility in the District. Located in southern Hillsborough County, it is an off-stream reservoir that stores surface water skimmed from the Tampa Bypass Canal and Alafia and Hillsborough Rivers. It services the Tampa Bay region through the Tampa Bay Water regional public supply water distribution system. The reservoir has an estimated storage capacity of 15.0 bg when the water level elevation is 136.5 feet NGVD. The reservoir is approximately 45 feet deep, two miles long and one mile wide, and encompasses a land area of approximately 1,100 acres. It reportedly has the capacity to provide 25 percent of the Tampa Bay region's public supply needs for six months and can supply the Tampa Bay regional surface water treatment plant at full capacity for 227 days.

Reservoirs

Water-level data for the seven reservoirs are obtained weekly from the USGS, Manatee County Utilities Department, Peace River/Manasota Regional Water Supply Authority, or Tampa Bay Water. The weekly data are then reduced to a monthly average. The values reported are provisional and subject to revision.

In October, six of the seven reservoirs monitored for this report recorded average water-level decreases, compared to last month. The Evers, Hillsborough River, Lake Manatee, Bill Young, Peace River No. 2 and Shell Creek reservoirs posted average water level decreases of 0.50 foot, 0.89 foot, 0.83 foot, 4.69 feet, 2.20 feet and 0.17 foot, respectively. The Peace River No. 1 reservoir posted an average water-level increase of 0.70 foot.

SUMMARY OF WATER LEVELS IN WATER SUPPLY RESERVOIRS (ELEVATION IN FEET, NGVD)

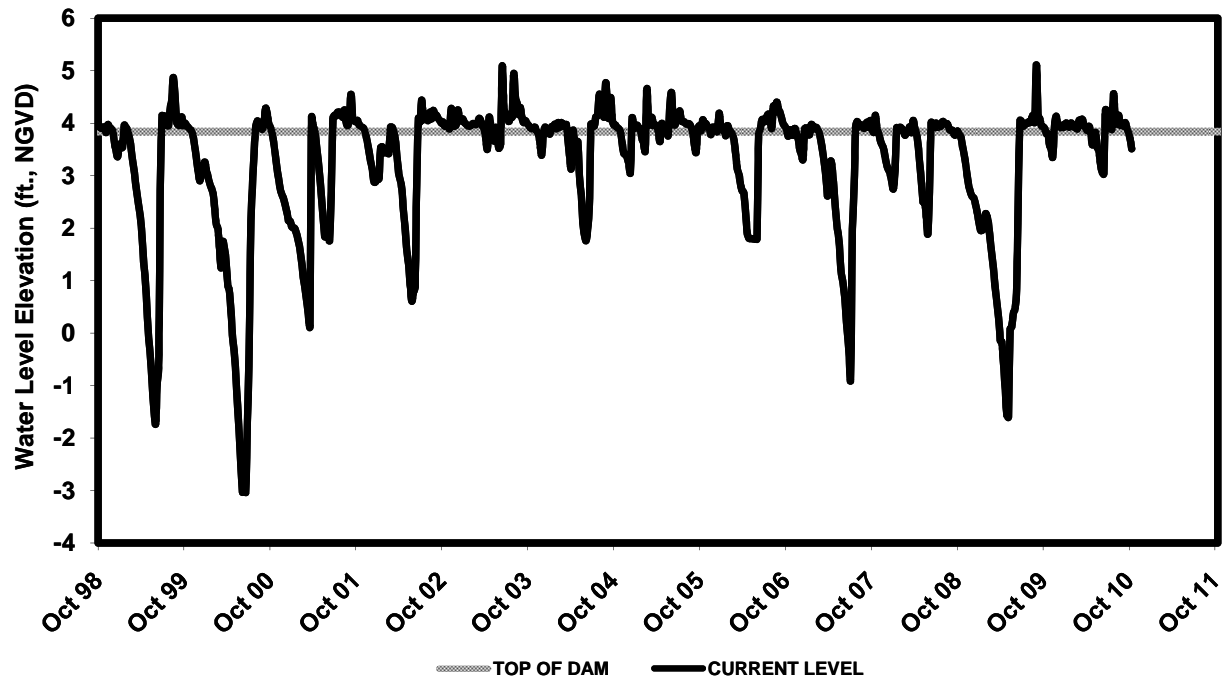
| RESERVOIR | 2010 September | 2010 October | 2009 October | Change from Prior Month | Change from Prior Year |
|---------------------------------|-------------------|-----------------|-----------------|-------------------------------|------------------------------|
| Evers | | | | | |
| City of Bradenton | 4.01 | 3.51 | 3.8 | -0.50 | -0.29 |
| Hillsborough | | | | | |
| City of Tampa | 22.41 | 21.52 | 22.15 | -0.89 | -0.63 |
| Lake Manatee | | | | | |
| Manatee County | 39.16 | 38.33 | 39.87 | -0.83 | -1.54 |
| C.W. Bill Young Regional | | | | | |
| Tampa Bay Water | 135.29 | 130.60 | 129.79 | -4.69 | 0.81 |
| Peace River | | | | | |
| PRMRWSA Reservoir #1 | 17.6 | 18.3 | 22.5 | 0.70 | -4.20 |
| PRMRWSA Reservoir #2 | 61.8 | 59.6 | 54.8 | -2.20 | 4.80 |
| Shell Creek | | | | | |
| City of Punta Gorda | 5.39 | 5.22 | 5.09 | -0.17 | 0.13 |

NGVD - National Geodetic Vertical Datum

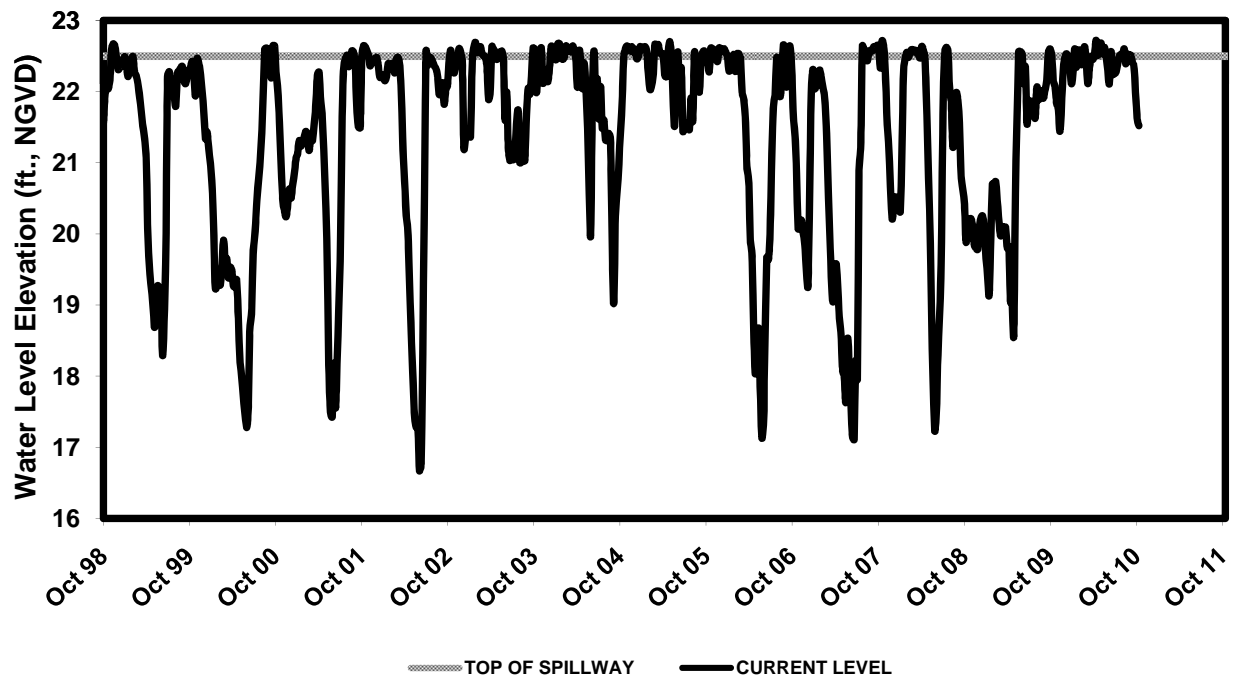
Reported data are provisional and subject to revision.

Compiled by Pam Green

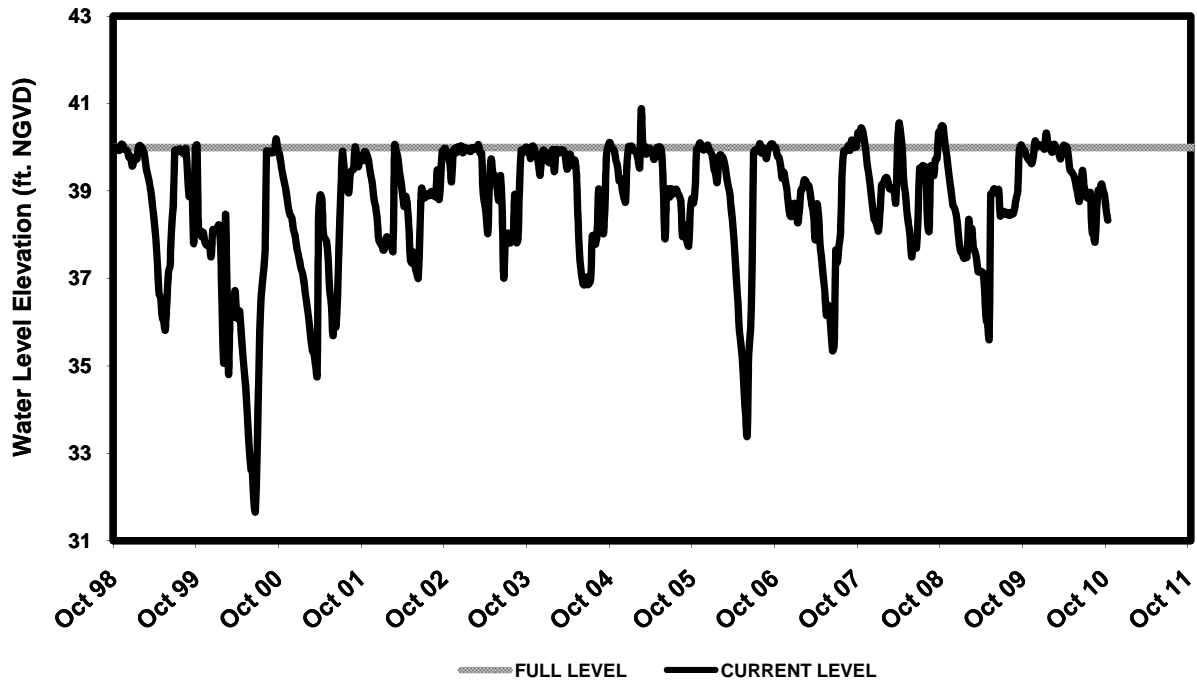
EVERS RESERVOIR City of Bradenton



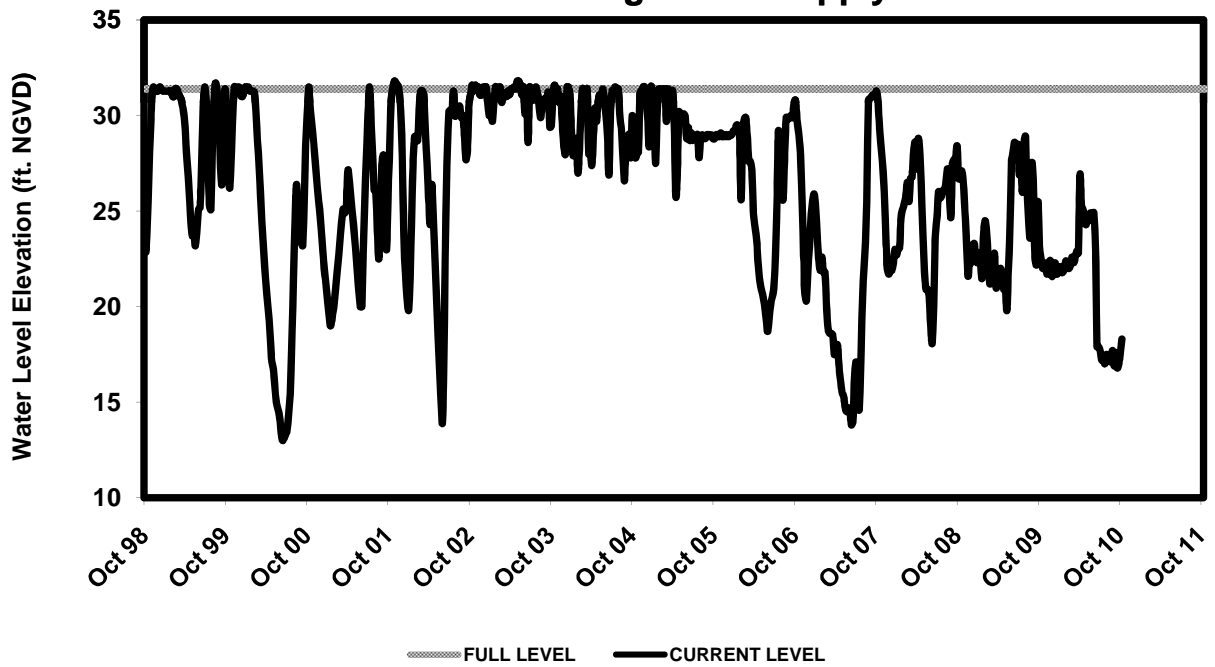
HILLSBOROUGH RESERVOIR City of Tampa

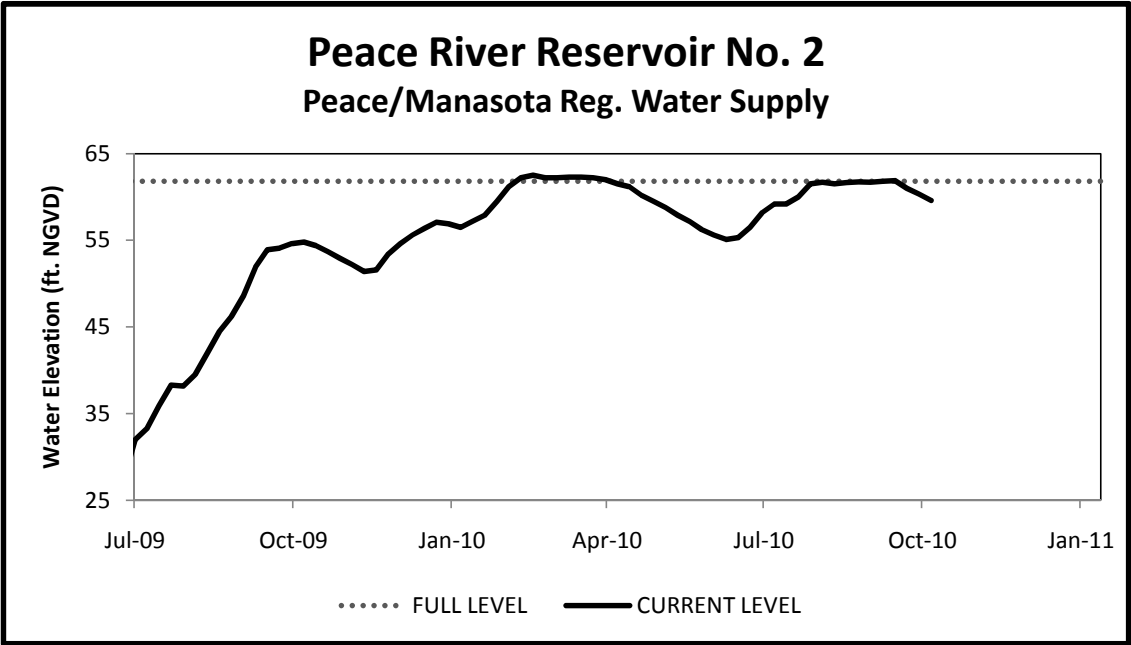


LAKE MANATEE RESERVOIR Manatee County



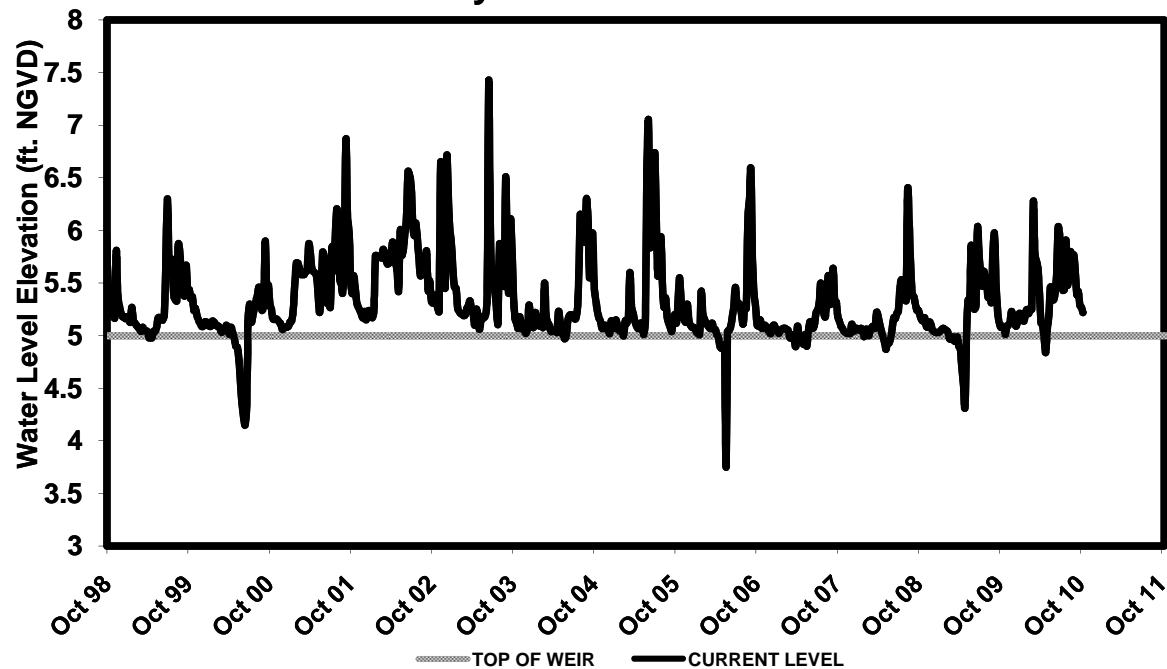
PEACE RIVER RESERVOIR No. 1 Peace/Manasota Reg. Water Supply



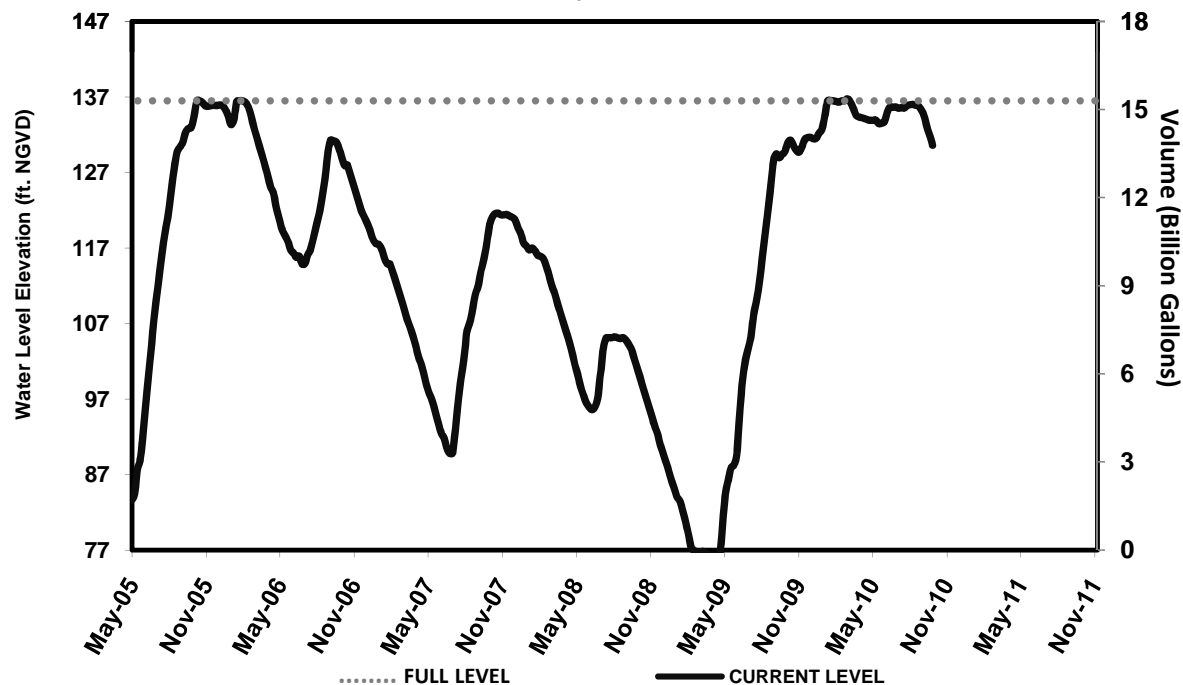


Compiled by Pam Green

SHELL CREEK RESERVOIR
City of Punta Gorda



C.W. BILL YOUNG REGIONAL RESERVOIR
Tampa Bay Water



Compiled by Pam Green

APPENDICES

Rainfall percentiles by interval and region, inches.

| Rainfall Interval | Region | 10TH Percentile (P10) | 25th Percentile (P25) | 50th Percentile (P50) | 75th Percentile (P75) | 90th Percentile (P90) |
|--------------------------|-----------------|---|---|---|---|---|
| Annual total | <i>Northern</i> | 43.19 | 48.35 | 54.01 | 58.86 | 63.46 |
| Annual total | <i>Central</i> | 41.45 | 46.10 | 52.16 | 57.28 | 63.82 |
| Annual total | <i>Southern</i> | 42.05 | 46.25 | 52.19 | 57.82 | 63.43 |
| Annual total | <i>District</i> | 43.12 | 47.22 | 52.99 | 57.46 | 62.83 |
| Dry season total | <i>Northern</i> | 15.27 | 18.42 | 23.79 | 28.72 | 32.10 |
| Dry season total | <i>Central</i> | 13.32 | 16.48 | 21.59 | 26.86 | 30.83 |
| Dry season total | <i>Southern</i> | 12.35 | 15.68 | 21.24 | 26.23 | 30.01 |
| Dry season total | <i>District</i> | 13.71 | 16.79 | 22.02 | 27.22 | 29.70 |
| Wet season total | <i>Northern</i> | 22.79 | 25.44 | 29.45 | 33.43 | 38.16 |
| Wet season total | <i>Central</i> | 23.22 | 25.79 | 29.71 | 34.86 | 39.22 |
| Wet season total | <i>Southern</i> | 24.37 | 27.37 | 30.58 | 35.88 | 41.68 |
| Wet season total | <i>District</i> | 23.92 | 27.16 | 29.97 | 34.71 | 38.93 |
| January total | <i>Northern</i> | 0.73 | 1.50 | 2.45 | 4.00 | 5.30 |
| January total | <i>Central</i> | 0.72 | 1.21 | 2.23 | 3.72 | 4.60 |
| January total | <i>Southern</i> | 0.39 | 0.93 | 1.88 | 3.31 | 4.93 |
| January total | <i>District</i> | 0.65 | 1.17 | 2.10 | 3.55 | 4.90 |
| February total | <i>Northern</i> | 0.82 | 1.42 | 2.82 | 4.08 | 5.76 |
| February total | <i>Central</i> | 0.60 | 1.12 | 2.38 | 4.17 | 5.50 |
| February total | <i>Southern</i> | 0.36 | 1.26 | 2.21 | 3.63 | 4.93 |
| February total | <i>District</i> | 0.73 | 1.32 | 2.38 | 3.94 | 5.12 |
| March total | <i>Northern</i> | 1.00 | 2.06 | 3.15 | 5.43 | 7.21 |
| March total | <i>Central</i> | 0.97 | 1.66 | 2.96 | 4.95 | 6.44 |
| March total | <i>Southern</i> | 0.81 | 1.28 | 2.56 | 4.29 | 6.68 |
| March total | <i>District</i> | 1.09 | 1.64 | 3.04 | 4.86 | 6.92 |
| April total | <i>Northern</i> | 0.65 | 1.33 | 2.38 | 3.95 | 5.52 |
| April total | <i>Central</i> | 0.51 | 0.96 | 1.87 | 3.44 | 5.59 |
| April total | <i>Southern</i> | 0.48 | 1.19 | 2.04 | 3.75 | 4.66 |
| April total | <i>District</i> | 0.65 | 1.20 | 2.24 | 3.72 | 5.12 |
| May total | <i>Northern</i> | 1.18 | 1.95 | 3.21 | 4.67 | 6.92 |
| May total | <i>Central</i> | 0.87 | 1.64 | 2.73 | 4.58 | 5.75 |
| May total | <i>Southern</i> | 1.17 | 1.91 | 3.36 | 5.22 | 6.75 |
| May total | <i>District</i> | 1.23 | 2.04 | 3.24 | 4.87 | 6.29 |
| June total | <i>Northern</i> | 4.60 | 5.47 | 7.27 | 8.63 | 10.16 |
| June total | <i>Central</i> | 3.65 | 4.79 | 6.46 | 8.27 | 9.48 |
| June total | <i>Southern</i> | 4.22 | 5.63 | 7.44 | 9.06 | 12.06 |
| June total | <i>District</i> | 4.55 | 5.46 | 7.24 | 8.60 | 10.99 |
| July total | <i>Northern</i> | 5.36 | 6.75 | 8.29 | 9.16 | 11.52 |
| July total | <i>Central</i> | 4.89 | 5.98 | 8.35 | 10.05 | 11.44 |
| July total | <i>Southern</i> | 5.68 | 6.94 | 8.11 | 9.50 | 10.99 |
| July total | <i>District</i> | 5.60 | 6.83 | 8.19 | 9.57 | 10.58 |
| August total | <i>Northern</i> | 5.44 | 6.30 | 7.31 | 9.72 | 11.33 |
| August total | <i>Central</i> | 5.52 | 6.55 | 7.90 | 9.62 | 12.03 |
| August total | <i>Southern</i> | 5.55 | 6.22 | 7.70 | 8.97 | 10.49 |
| August total | <i>District</i> | 5.65 | 6.52 | 7.70 | 9.37 | 10.67 |
| September total | <i>Northern</i> | 2.79 | 4.18 | 5.84 | 8.04 | 11.35 |
| September total | <i>Central</i> | 3.19 | 5.11 | 6.46 | 8.50 | 11.69 |
| September total | <i>Southern</i> | 4.30 | 5.46 | 6.94 | 9.33 | 11.85 |
| September total | <i>District</i> | 3.85 | 5.21 | 6.53 | 8.62 | 11.65 |
| October total | <i>Northern</i> | 0.63 | 1.27 | 2.46 | 4.40 | 6.15 |
| October total | <i>Central</i> | 0.69 | 1.39 | 2.61 | 4.03 | 6.13 |
| October total | <i>Southern</i> | 0.92 | 1.78 | 2.73 | 4.27 | 6.04 |
| October total | <i>District</i> | 1.06 | 1.57 | 2.80 | 4.15 | 5.79 |

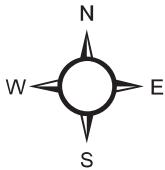
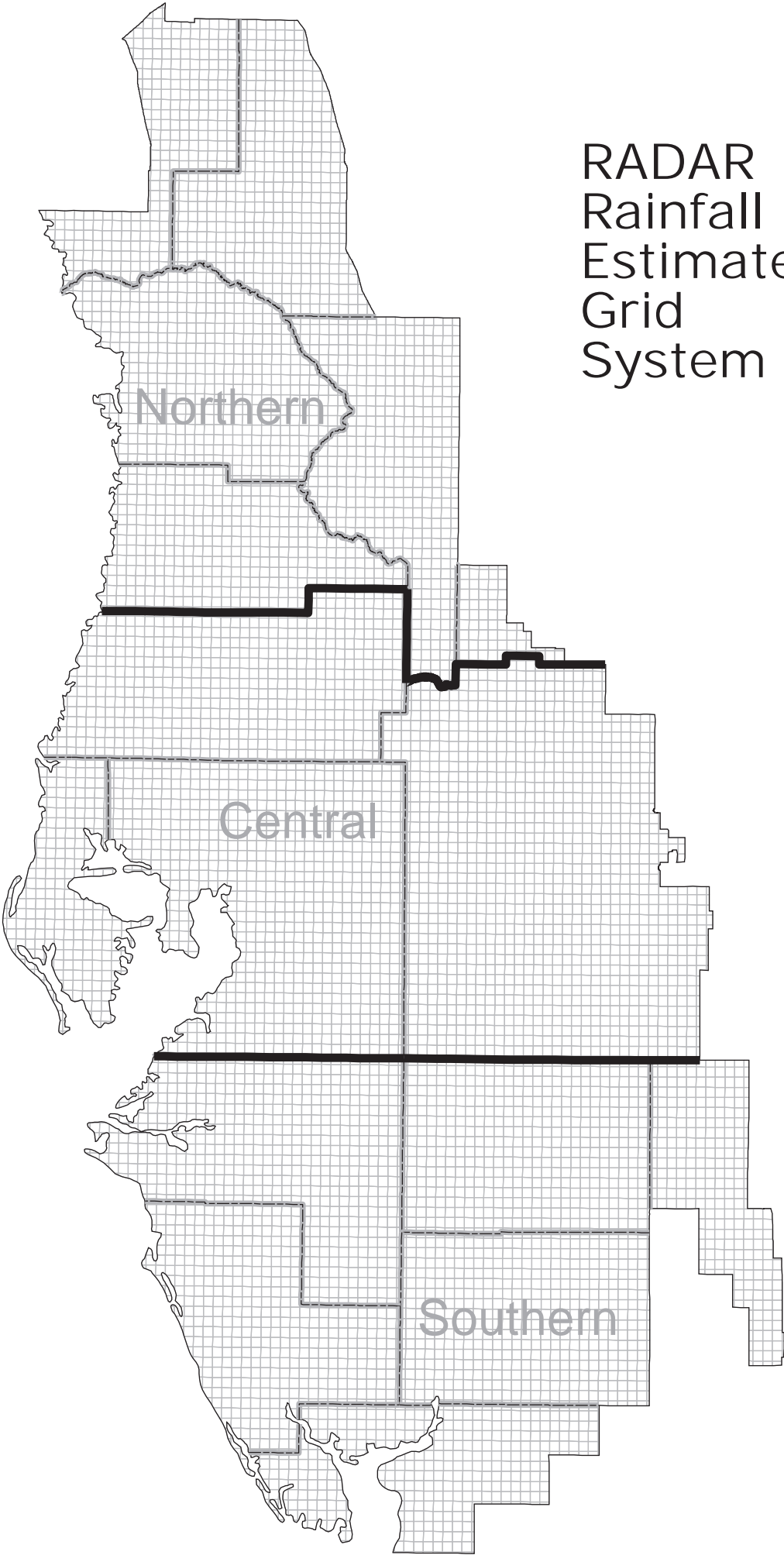
Rainfall percentiles by interval and region, inches (continued).

| Rainfall Interval | Region | 10TH Percentile (P10) | 25th Percentile (P25) | 50th Percentile (P50) | 75th Percentile (P75) | 90th Percentile (P90) |
|--------------------------|-----------------|---|---|---|---|---|
| November total | <i>Northern</i> | 0.38 | 0.71 | 1.63 | 2.88 | 4.56 |
| November total | <i>Central</i> | 0.25 | 0.47 | 1.42 | 2.82 | 4.33 |
| November total | <i>Southern</i> | 0.40 | 0.64 | 1.46 | 2.56 | 3.82 |
| November total | <i>District</i> | 0.37 | 0.63 | 1.53 | 2.73 | 4.39 |
| December total | <i>Northern</i> | 0.54 | 1.06 | 2.06 | 3.71 | 5.19 |
| December total | <i>Central</i> | 0.48 | 0.84 | 1.89 | 3.03 | 4.87 |
| December total | <i>Southern</i> | 0.45 | 0.77 | 1.56 | 2.63 | 4.18 |
| December total | <i>District</i> | 0.54 | 0.89 | 1.86 | 2.92 | 4.34 |

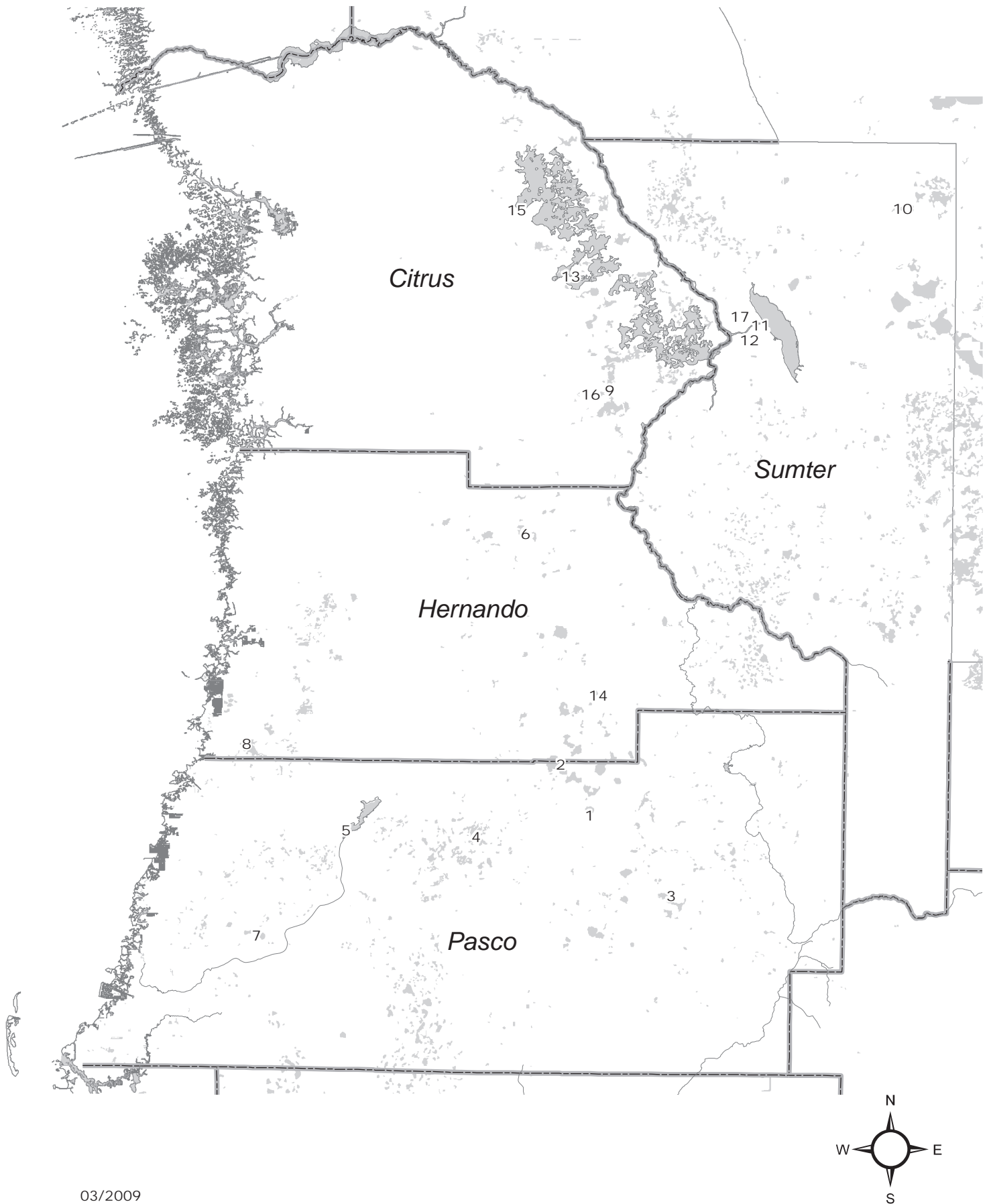
Rainfall characterization ranges

| Characterization | Range | Corresponding Rainfall Percent of Normal (approximate) |
|-------------------------|-------------------------------|---|
| Very dry | Less than the P10 rainfall | Less than 80 percent of normal |
| Drier than normal | P10 to P25 rainfall | 80 to 90 percent of normal |
| Normal | P25 to P75 rainfall | 90 to 110 percent of normal |
| Wetter than normal | P75 to P90 rainfall | 110 to 120 percent of normal |
| Very Wet | Greater than the P90 rainfall | Greater than 120 percent of normal |

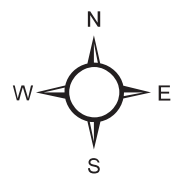
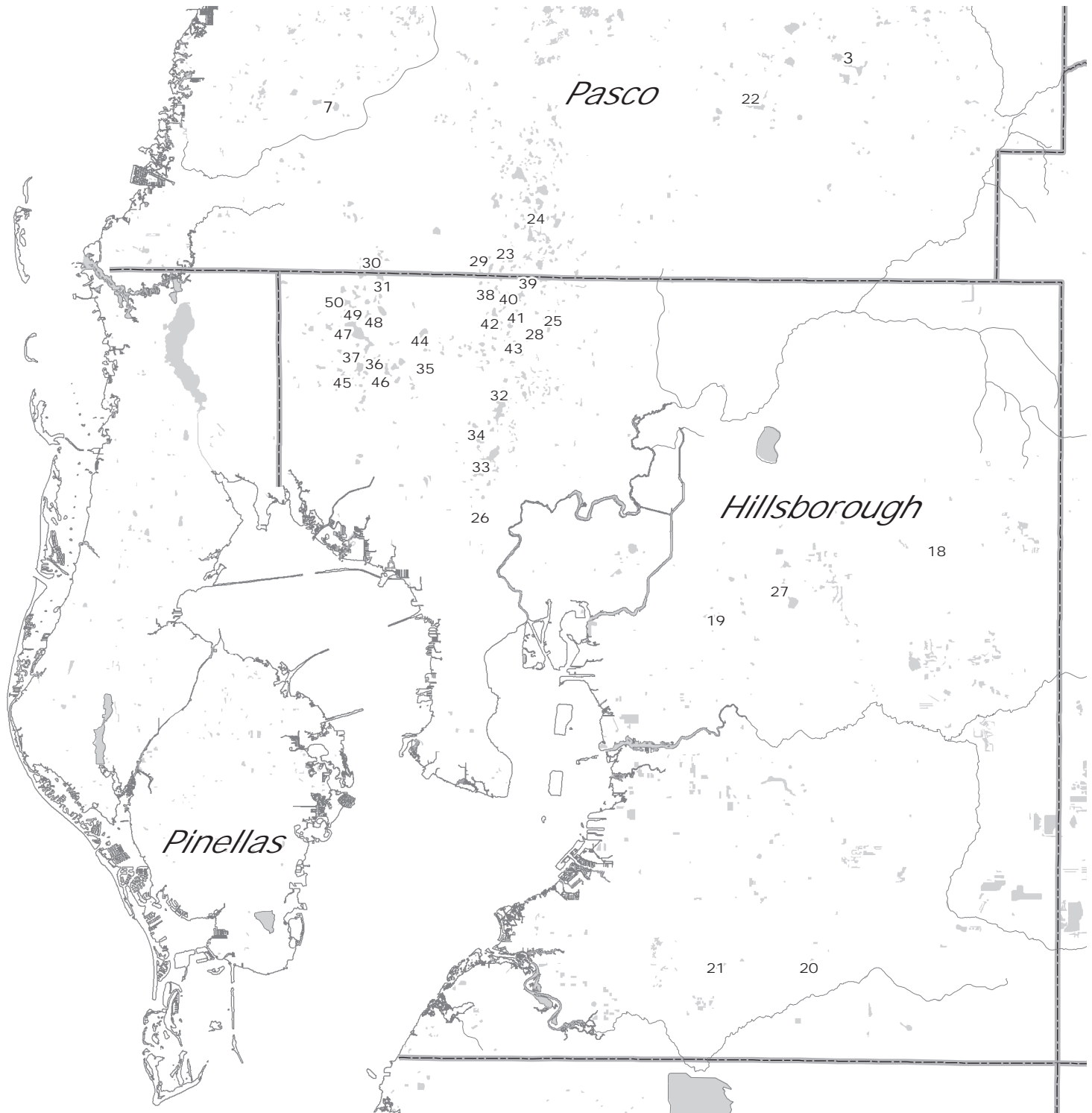
RADAR
Rainfall
Estimate
Grid
System



Selected Lake Monitoring Stations Northern Region

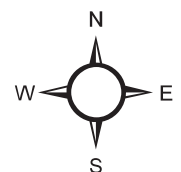
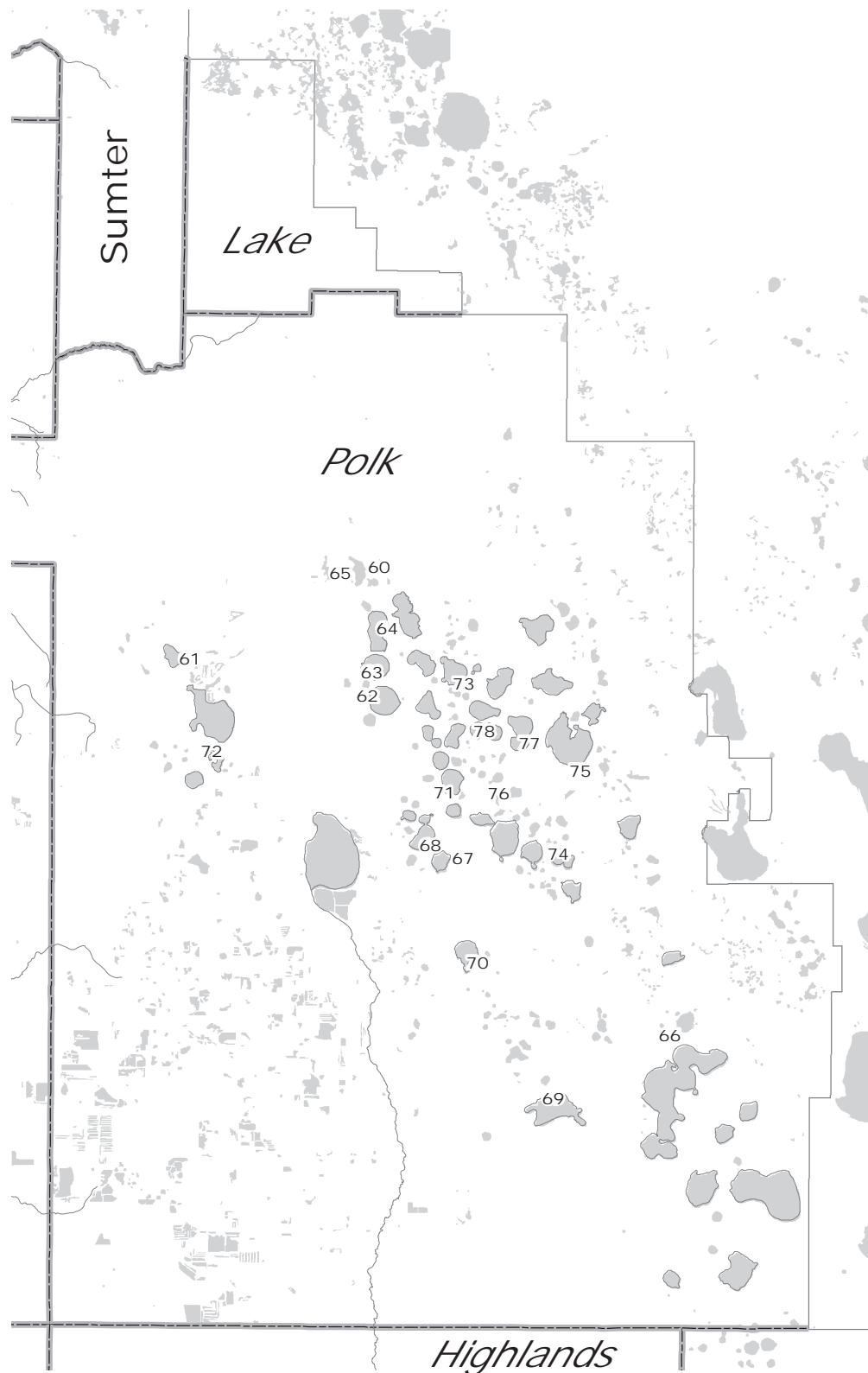


Selected Lake Monitoring Stations Tampa Bay Region



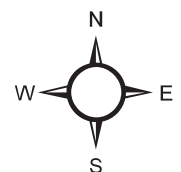
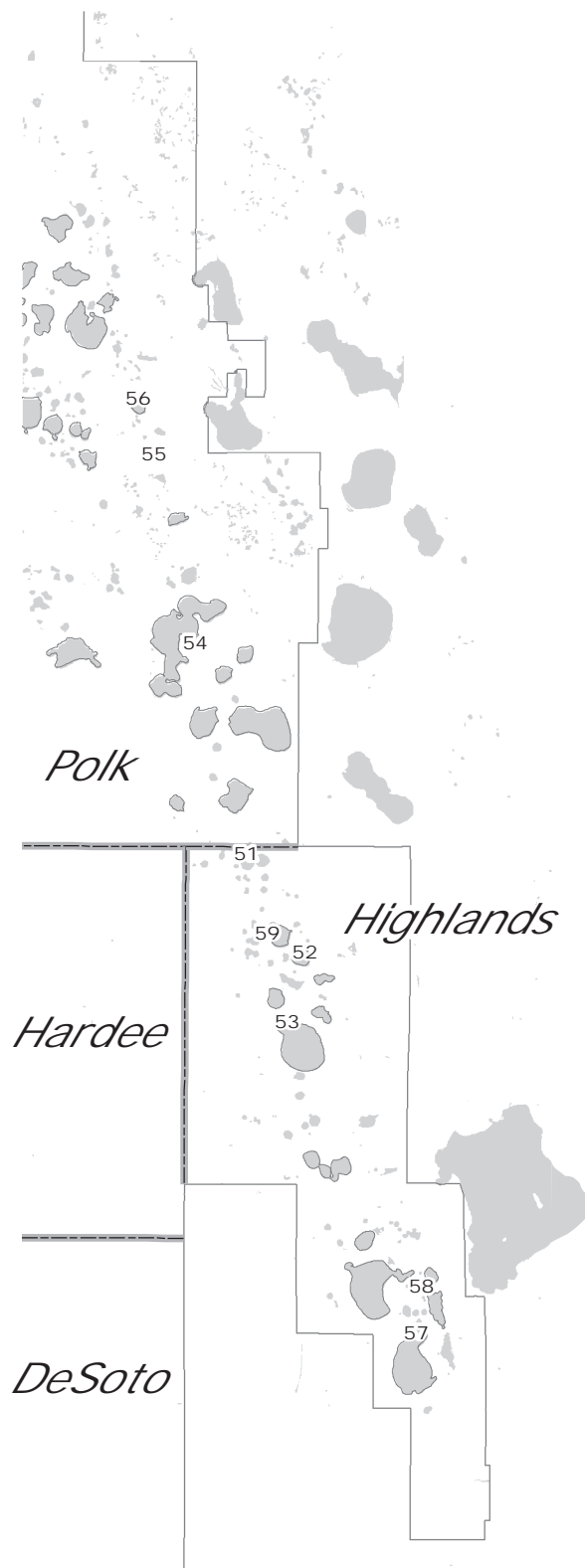
Selected Lake Monitoring Stations

Polk Uplands Region



Selected Lake Monitoring Stations

Lake Wales Ridge Region



Selected Lake Monitoring Stations

Northern Region

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|-----------------------------|
| 1 | Lake Iola |
| 2 | Hancock Lake |
| 3 | Lake Pasadena |
| 4 | Big Fish Lake |
| 5 | Crews Lake |
| 6 | Lake Lindsey |
| 7 | Moon Lake |
| 8 | Hunters Lake |
| 9 | Tsala Apopka at Floral City |
| 10 | Lake Miona |
| 11 | Pana Vista Outlet River |
| 12 | Outlet River at Panacoochee |
| 13 | Tsala Apopka at Inverness |
| 14 | Spring Lake |
| 15 | Tsala Apopka at Hernando |
| 16 | Little Lake (Consuella) |
| 17 | Lake Panasoffkee |

Tampa Bay Region

| <u>Map ID</u> | <u>Site Name</u> | <u>Map ID</u> | <u>Site Name</u> |
|---------------|----------------------------|---------------|------------------|
| 18 | Mud (Walden) Lake | 40 | Lake Brooker |
| 19 | Gornto Lake | 41 | Cooper Lake |
| 20 | Carlton Lake | 42 | Lake Thomas |
| 21 | Lake Wimauma | 43 | Brant Lake |
| 22 | King Lake near San Antonio | 44 | Turkey Ford Lake |
| 23 | Lake Linda | 45 | Church Lake |
| 24 | Lake Padgett | 46 | Horse Lake |
| 25 | Keene Lake | 47 | Lake Alice |
| 26 | Egypt Lake | 48 | Lake Calm |
| 27 | Long Pond | 49 | Keystone Lake |
| 28 | Lake Stemper | 50 | Crescent Lake |
| 29 | Camp Lake | | |
| 30 | Lake Ann (Parker) | | |
| 31 | Lake Hiawatha | | |
| 32 | Platt Lake | | |
| 33 | Lake Carroll | | |
| 34 | Bay Lake | | |
| 35 | Lake LeClare | | |
| 36 | Little Lake | | |
| 37 | Rainbow Lake | | |
| 38 | Lake Harvey | | |
| 39 | Deer Lake | | |

Selected Lake Monitoring Stations

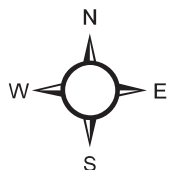
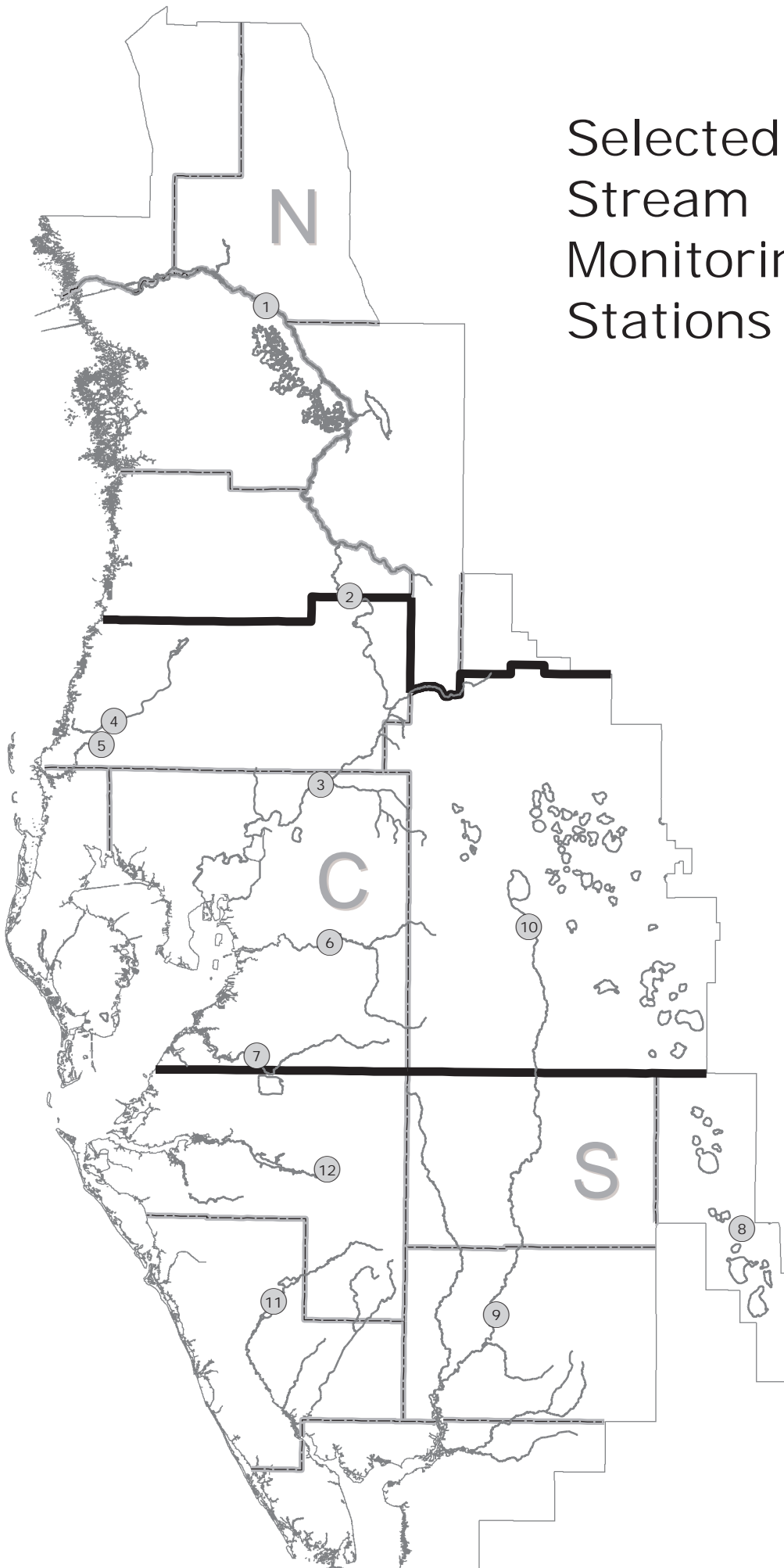
Lake Wales Ridge Region

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|-------------------------------|
| 51 | Trout Lake |
| 52 | Lake Letta |
| 53 | Lake Jackson at Sebring |
| 54 | Crooked Lake near Babson Park |
| 55 | Lake Starr |
| 56 | Lake Annie |
| 57 | Lake Placid |
| 58 | Lake Clay |
| 59 | Lake Lotela |

Polk Uplands Region

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|------------------|
| 60 | Lake Helene |
| 61 | Lake Gibson |
| 62 | Lake Ariana |
| 63 | Lake Arietta |
| 64 | Lake Juliana |
| 65 | Clearwater Lake |
| 66 | Blue Lake South |
| 67 | Lake McLeod |
| 68 | Eagle Lake |
| 69 | Lake Buffum |
| 70 | Lake Garfield |
| 71 | Lake Howard |
| 72 | Lake Bonny |
| 73 | Lake Alfred |
| 74 | Lake Ruby |
| 75 | Lake Hamilton |
| 76 | Lake Otis |
| 77 | Lake Fannie |
| 78 | Lake Conine |

Selected Stream Monitoring Stations



Selected Stream Monitoring Stations

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|--|
| 1 | Withlacoochee River near Holder |
| 2 | Withlacoochee River at Trilby |
| 3 | Hillsborough River near Zephyrhills |
| 4 | Pithlachascotee River near New Port Richey |
| 5 | Anclote River near Elfers |
| 6 | Alafia River at Lithia |
| 7 | Little Manatee River near Wimauma |
| 8 | Josephine Creek near DeSoto City |
| 9 | Peace River at Arcadia |
| 10 | Peace River at Bartow |
| 11 | Myakka River near Sarasota |
| 12 | Manatee River near Myakka Head |

STREAM MONITORING STATIONS

WITHLACOOCHEE RIVER (Northern Region)

Total length: 157 miles
Headwaters: NW Polk and southern Sumter Counties
Elevation: 135 feet
Tributaries: Little Withlacoochee, Big Gant Canal, Jumper Creek, Shady Brook, Outlet River of Lake Panasoffkee, Leslie Heifner Canal, Orange State Canal, Tsala Apopka Outfall Canal and Rainbow Springs.
Mouth: Gulf of Mexico, Citrus County
Average fall: 0.9 feet/mile
Drainage area: 2000 square miles

Holder Station

County: Marion
Period-of-record: 1928
Location: 38 miles upstream from mouth
Avg daily discharge: 1036.3 cfs
Runoff per year: 10.36 inches
Max of monthly avg discharge: 7096.3 cfs in 04/1960
Min of monthly avg discharge: 111.8 cfs in 07/1992
Drainage area: 1825 square miles

Trilby Station

County: Hernando
Period-of-record: 1928
Location: 93 miles upstream from mouth
Avg daily discharge: 336.3 cfs
Runoff per year: 6.73 inches
Max of monthly avg discharge: 4254.7 cfs in 09/1933
Min of monthly avg discharge: 6.1 cfs in 07/1992
Drainage area: 570 square miles

ANCLOTE RIVER (Central Region)

Total length: 27.5 miles
Headwaters: South-central Pasco County, west of Land O Lakes
Elevation: 65 feet
Tributaries: South Branch and Hollin Creek
Mouth: Gulf of Mexico, Pasco County
Average fall: 2.4 feet/mile
Drainage area: 113 square miles

Elfers Station

County: Pasco
Period-of-record: 1946
Location: 16 miles upstream from mouth
Avg daily discharge: 65.1 cfs
Runoff per year: 12.20 inches
Max of monthly avg discharge: 633.8 cfs in 09/1988
Min of monthly avg discharge: 1.4 cfs in 05/1981
Drainage area: 72.5 square miles

HILLSBOROUGH RIVER (Central Region)

Total length: 55 miles
Headwaters: Southeast Pasco County
Elevation: 77 feet
Tributaries: Crystal Springs, Blackwater Creek, Flint Creek, Trout Creek, Cypress Creek, Curiosity Creek and Sulphur Springs
Mouth: Hillsborough Bay
Average fall: 1.4 feet/mile
Drainage area: 690 square miles

Zephyrhills Station

County: Hillsborough
Period-of-record: 1939
Location: 40 miles upstream from mouth
Avg daily discharge: 244.2 cfs
Runoff per year: 15.05 inches
Max of monthly avg discharge: 2284.5 cfs in 12/1997
Min of monthly avg discharge: 47.1 cfs in 05/1994
Drainage area: 200 square miles

PITHLACHASCOTEE RIVER (Central Region)

Total length: 41 miles
Headwaters: Crews Lake and Masaryktown area in central Pasco and southern Hernando Counties
Elevation: 120 feet
Mouth: Gulf of Mexico
Average fall: 2.9 feet/mile
Drainage area: 191 square miles

New Port Richey Station:

County: Pasco
Period-of-record: 1963
Location: 10.5 miles upstream from mouth
Avg daily discharge: 27.9 cfs
Runoff per year: 2.11 inches
Max of monthly avg discharge: 329.4 cfs in 09/1988
Min of monthly avg discharge: 0.0 cfs
Drainage area: 180 square miles

ALAFIA RIVER (Central Region)

Total length: 24 miles
Headwaters: Western Polk and eastern Hillsborough Counties
Tributaries: North and South Prongs, Lithia Springs, and Buckhorn Creek.
Elevation: 30 feet
Mouth: Tampa Bay
Average fall: 1.5 feet/mile
Drainage area: 420 square miles

Lithia Station:

County: Hillsborough
Period-of-record: 1932
Location: 16 miles upstream from mouth
Avg daily discharge: 339.7 cfs
Runoff per year: 13.59 inches
Max of monthly avg discharge: 4185.4 cfs in 09/1933
Min of monthly avg discharge: 13.0 cfs in 05/1945
Drainage area: 335 square miles

LITTLE MANATEE RIVER (Central Region)

Total length: 39 miles
Headwaters: Southeast Hillsborough County
Tributaries: Carlton Branch, the South Fork, Dug Creek and Cypress Creek.
Elevation: 130 feet
Mouth: Tampa Bay
Average fall: 3.4 feet/mile
Drainage area: 225 square miles

Wimauma Station:

County: Hillsborough
Period-of-record: 1939
Location: 15 miles upstream from mouth
Avg daily discharge: 171.4 cfs
Runoff per year: 15.68 inches
Max of monthly avg discharge: 1443.7 cfs in 07/1945
Min of monthly avg discharge: 3.8 cfs in 05/45
Drainage area: 149 square miles

JOSEPHINE CREEK (Southern Region)

Total length: 12 miles
Headwaters: Lake Josephine in central Highlands County
Elevation: 80 feet
Mouth: Lake Istokpoga in Highlands County
Average fall: 3.5 feet/mile
Drainage area: 143 square miles

DeSoto City Station:

County: Highlands
Period-of-record: 1946
Location: 4.9 miles upstream of mouth
Avg daily discharge: 74.2 cfs
Runoff per year: 8.90 inches
Max of monthly avg discharge: 769.9 cfs in 09/1960
Min of monthly avg discharge: 1.1 cfs in 05/56
Drainage area: 109 square miles

MANATEE RIVER (Southern Region)

Total length: 45 miles
Headwaters: Four corners area Hillsborough, Polk, Hardee and manatee Counties.
Elevation: 130 feet
Mouth: Tampa Bay
Average fall: 2.9 feet/mile
Drainage area: 330 square miles

Myakka Head Station:

County: Manatee
Period-of-record: 1966
Location: 36 miles upstream from mouth
Avg daily discharge: 69.6 cfs
Runoff per year: 14.62 inches
Max of monthly avg discharge: 529.7 cfs in 09/1994
Min of monthly avg discharge: 0.5 cfs in 04/75
Drainage area: 65.3 square miles

MYAKKA RIVER (Southern Region)

Total length: 54.1 miles
Headwaters: Western Hardee and Eastern Manatee Counties
Tributaries: Howard Creek, Deer Prairie, and Big Slough Canal
Elevation: 105 feet
Mouth: Charlotte Harbor
Average fall: 1.9 feet/mile
Drainage area: 540 square miles

Sarasota Station:

County: Sarasota
Period-of-record: 1936
Location: 36 miles upstream from mouth
Avg daily discharge: 250.5 cfs
Runoff per year: 15.03 inches
Max of monthly avg discharge: 2467.2 cfs in 09/1947
Min of monthly avg discharge: 0.0 cfs numerous times
Drainage area: 229 square miles

PEACE RIVER (Central and Southern Region)

Total length: 120 miles
Headwaters: Green Swamp in northern Polk County through Lake Hancock, Winter Haven chain of lakes, and Lake Hamilton.
Tributaries: Peace Creek Canal, Saddle Creek, Charlie Creek, Prairie Creek, Horse Creek, Joshua Creek and Shell Creek. Elevation: 110 feet
Mouth: Charlotte Harbor
Average fall: 1 feet/mile
Drainage area: 2300 square miles

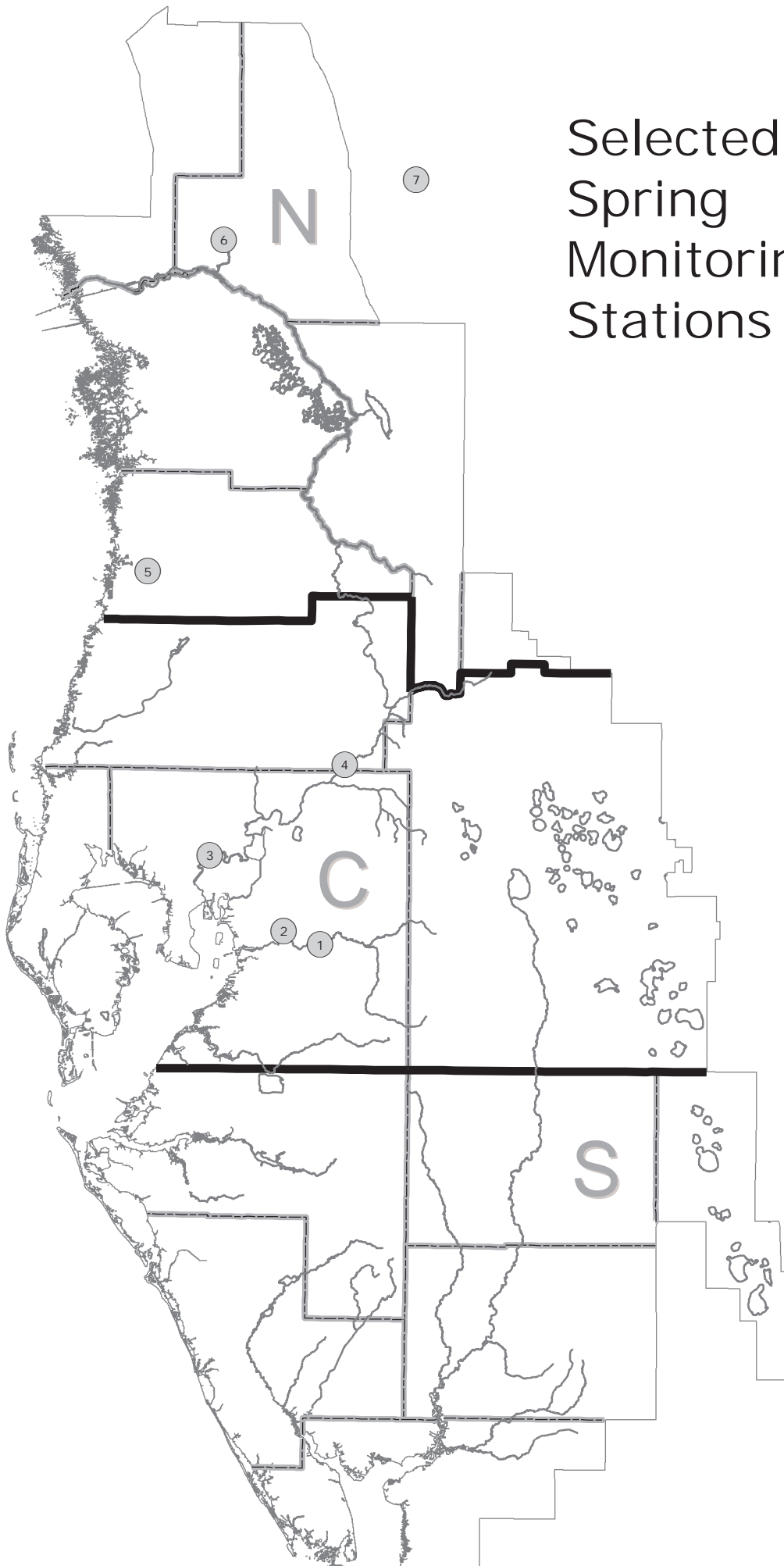
Arcadia Station (Southern Region):

County: Desoto
Period-of-record: 1931
Location: 36 miles upstream from mouth
Avg daily discharge: 1078.9 cfs
Runoff per year: 10.79 inches
Max of monthly avg discharge: 9876.0 cfs in 09/1933
Min of monthly avg discharge: 51.6 cfs 05/85
Drainage area: 1367 square miles

Bartow Station (Central Region):

County: Polk
Period-of-record: 1939
Location: 105 miles upstream from mouth
Avg daily discharge: 224.1 cfs
Runoff per year: 6.72 inches
Max of monthly avg discharge: 2261.5 cfs in 09/1960
Min of monthly avg discharge: 6.4 cfs 05/90
Drainage area: 390 square miles

Selected Spring Monitoring Stations



Selected Spring Monitoring Stations

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|-------------------------------------|
| 1 | Lithia Main Spring |
| 2 | Buckhorn Main Spring |
| 3 | Sulphur Springs at Sulphur Springs |
| 4 | Crystal Springs near Zephyrhills |
| 5 | Weeki Wachee River near Brooksville |
| 6 | Rainbow Springs near Dunnellon |
| 7 | Silver Springs near Ocala |

SPRINGS MONITORING STATIONS

RAINBOW SPRINGS (Northern Region)

| | |
|---------------------------------|--------------------------------------|
| County: | Marion |
| Basin: | Withlacoochee River |
| Magnitude: | 1 st |
| Discharge measurement location: | 5 mi downstream from head of springs |
| Discharge contributes to: | Rainbow River, Withlacoochee River |
| Public Access: | Yes |
| Period-of-record: | 1965 |
| Gage: | Non-recording gage |
| Maximum daily mean: | 1061 cfs in 09/1988 |
| Minimum daily mean: | 489 cfs in 06/2000 |

SILVER SPRINGS (Northern Region)

| | |
|---------------------------------|--|
| County: | Marion |
| Basin: | Ocklawaha River |
| Magnitude: | 1 st |
| Discharge measurement location: | 4 to 5 mi downstream from head of springs |
| Discharge contributes to: | Silver Springs River, Ocklawaha River, St. Johns River |
| Public Access: | Yes |
| Period-of-record: | 1932 |
| Gage: | Water-stage recorder |
| Maximum daily mean: | 1290 cfs in 10/1960 |
| Minimum daily mean: | 432 cfs in 07/2000 |

WEEKI WACHEE SPRINGS (Northern Region)

| | |
|---------------------------------|--------------------------------------|
| County: | Hernando |
| Basin: | Coastal Rivers |
| Magnitude: | 1 st |
| Discharge measurement location: | 1 mi downstream from head of springs |
| Discharge contributes to: | Weeki Wachee River |
| Public Access: | Yes |
| Period-of-record: | 1993 |
| Gage: | Water-stage |
| Maximum daily mean: | 229 cfs in 03/1998 |
| Minimum daily mean: | 101 cfs in 06/1994 |

CRYSTAL SPRINGS (Central Region)

| | |
|---------------------------------|--|
| County: | Pasco |
| Basin: | Hillsborough River |
| Magnitude: | 2 nd |
| Discharge measurement location: | Difference between discharge measurements of Hillsborough River made upstream from and downstream from Crystal Springs |
| Discharge contributes to: | Hillsborough River |
| Public Access: | No |
| Period-of-record: | 1923 |
| Gage: | Non-recording gage |
| Maximum daily mean: | 147 cfs in 07/1941 |
| Minimum daily mean: | 22 cfs in 08/1986 |

SULPHUR SPRINGS (Central Region)

| | |
|---------------------------------|--|
| County: | Hillsborough |
| Basin: | Hillsborough River |
| Magnitude: | 2 nd |
| Discharge measurement location: | 300 ft downstream from gage |
| Discharge contributes to: | Hillsborough River |
| Public Access: | Yes |
| Period-of-record: | 1956 |
| Gage: | Water-stage recorder |
| Maximum daily mean: | 145 cfs in 03/1960 |
| Minimum daily mean: | 0 cfs for various days throughout the period-of-record |

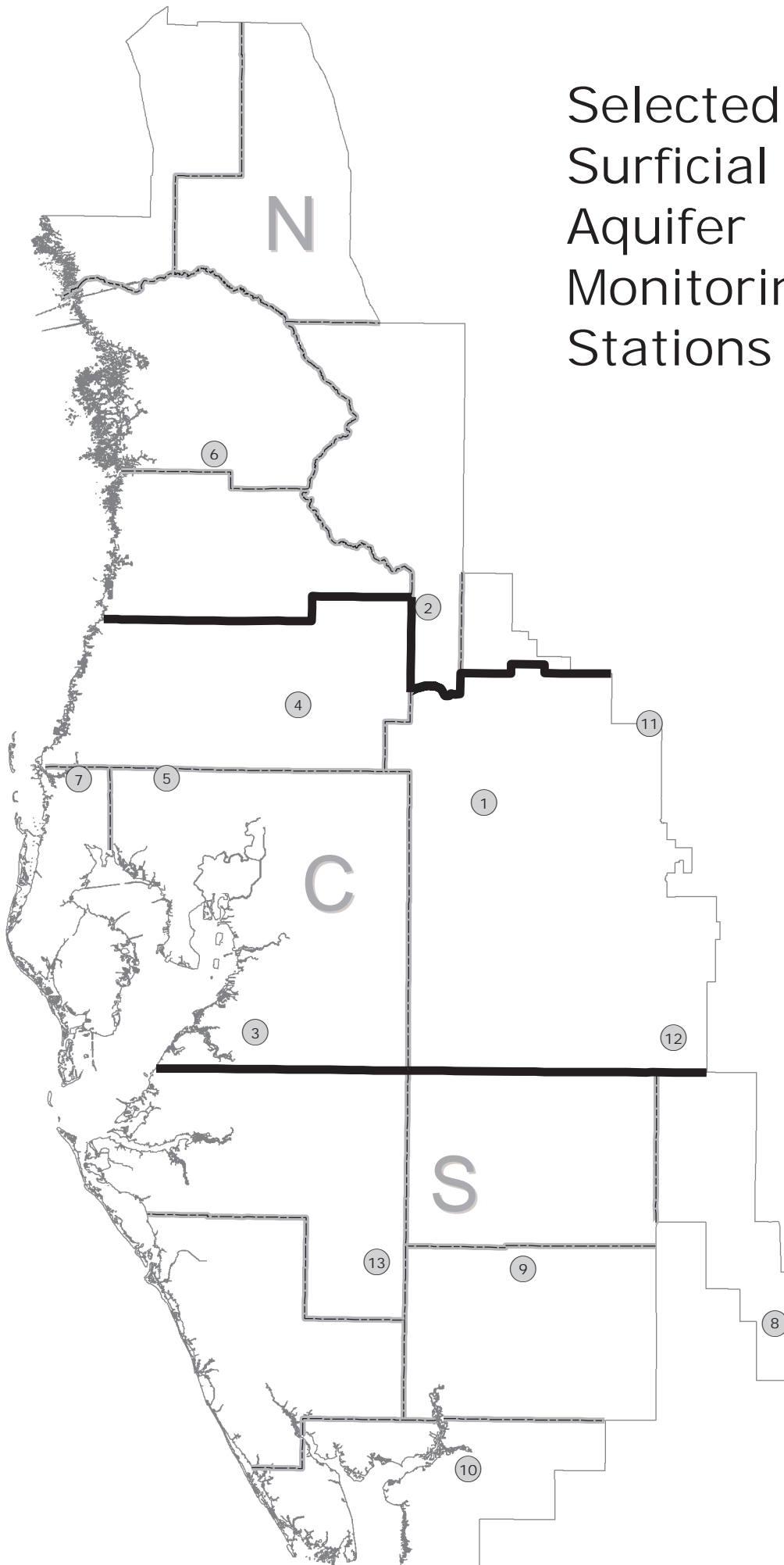
BUCKHORN SPRINGS (Central Region)

| | |
|---------------------------------|--|
| County: | Hillsborough |
| Basin: | Alafia River |
| Magnitude: | 2 nd |
| Discharge measurement location: | Difference between discharge measurements of Buckhorn Creek made 25 ft upstream from and 100 ft downstream from Buckhorn Springs |
| Discharge contributes to: | Buckhorn Creek, Alafia River |
| Public Access: | No |
| Period-of-record: | 1987 |
| Gage: | Water-stage recorder |
| Maximum daily mean: | 21.9 cfs in 02/1989 |
| Minimum daily mean: | 2.7 cfs in 06/1987 |

LITHIA SPRINGS: (Central Region)

| | |
|---------------------------------|-----------------------------------|
| County: | Hillsborough |
| Basin: | Alafia River |
| Magnitude: | 2 nd |
| Discharge measurement location: | 50 feet downstream from main pool |
| Discharge contributes to: | Alafia River |
| Public Access: | Yes |
| Period-of-record: | 1934 |
| Gage: | Water-stage recorder |
| Maximum daily mean: | 83.4 cfs in 10/1967 |
| Minimum daily mean: | 6.3 cfs in 02/1989 |

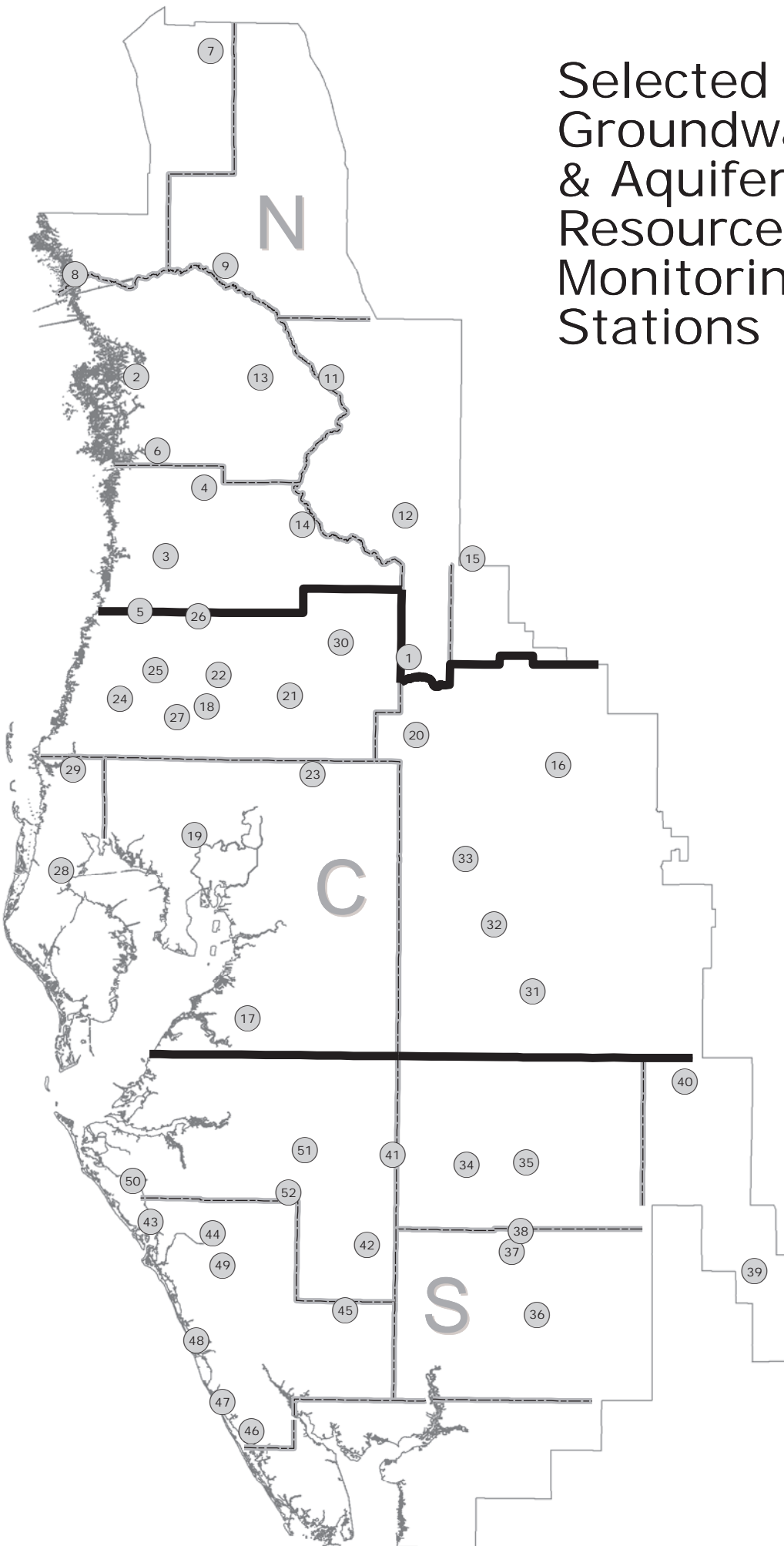
Selected Surficial Aquifer Monitoring Stations



Selected Surficial Aquifer Monitoring Stations

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|-----------------------------------|
| 1 | State Road 33/Combee Road Shallow |
| 2 | Green Swamp L12B Shallow |
| 3 | ROMP 50 Surficial |
| 4 | State Road 577 Shallow |
| 5 | Lutz-Lake Fern Shallow |
| 6 | Lecanto 2 Shallow |
| 7 | Tarpon Road Shallow |
| 8 | Bairs Den Surficial |
| 9 | ROMP 26 Surficial |
| 10 | State Road 74 (77-Foot) Shallow |
| 11 | Loughman Shallow |
| 12 | USGS P-48 Shallow |
| 13 | Edgeville 4 Shallow |

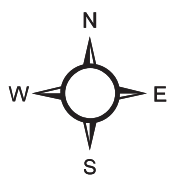
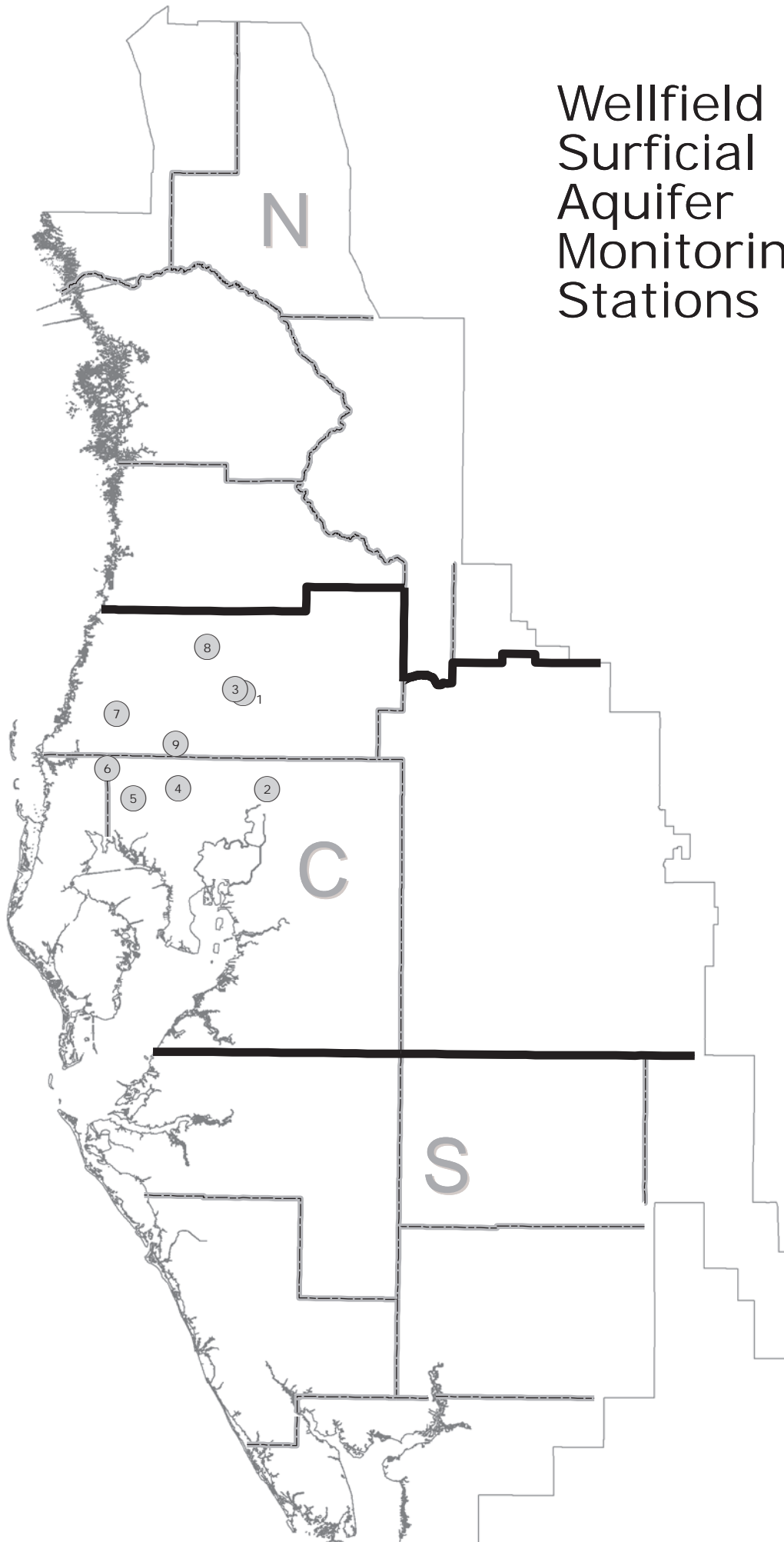
Selected Groundwater & Aquifer Resource Monitoring Stations



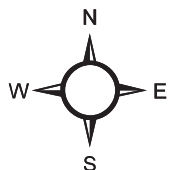
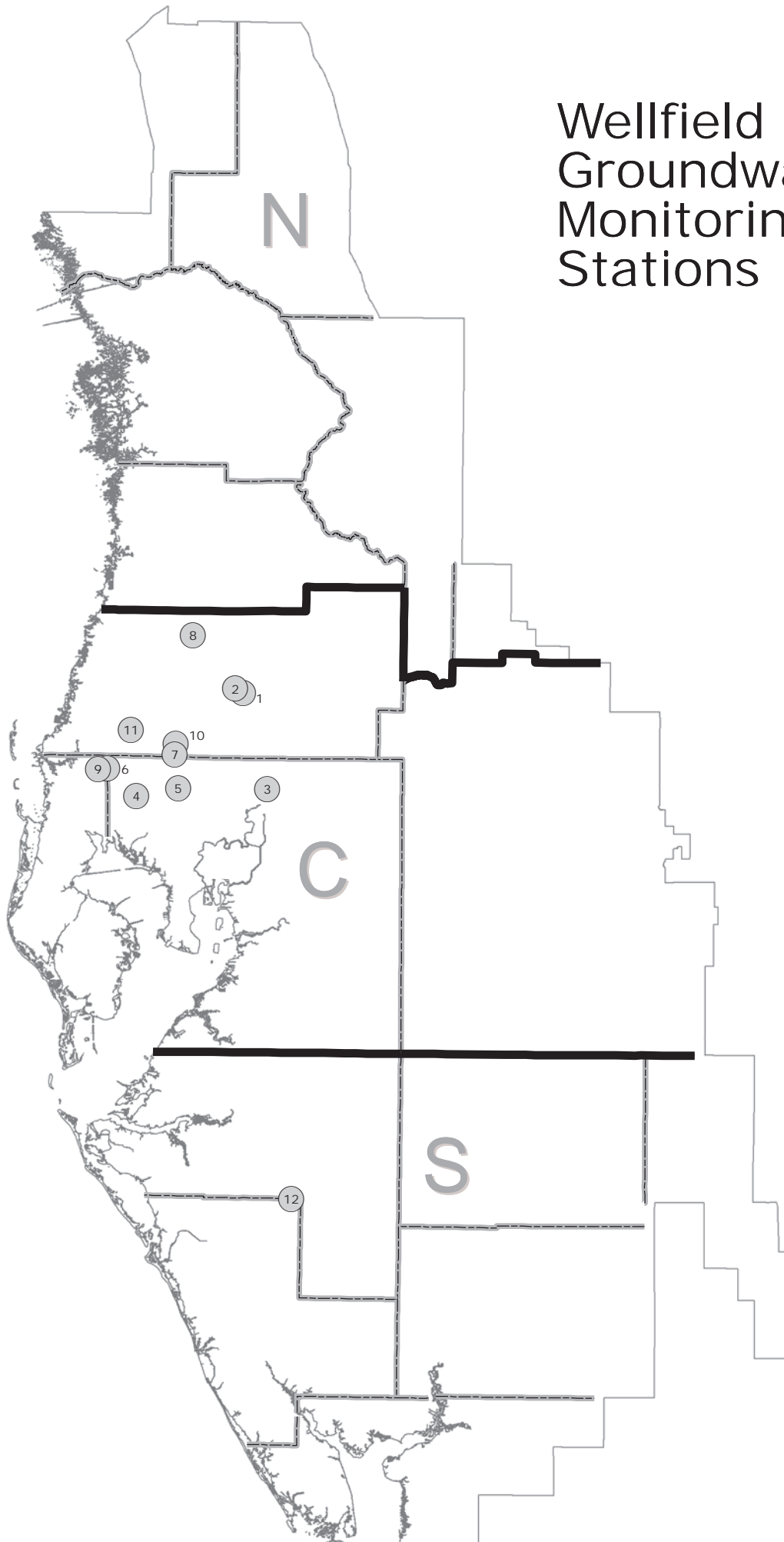
Selected Groundwater & Aquifer Resource Monitoring Stations

| <u>Map ID</u> | <u>Site Name</u> | <u>Map ID</u> | <u>Site Name</u> |
|---------------|---|---------------|---------------------------------------|
| 1 | ROMP 89 Ocala | 43 | Sarasota 11 th Street Deep |
| 2 | ROMP TR 21-2 Ocala/Avon Park | 44 | Sarasota 9 Deep |
| 3 | Weeki Wachee Deep | 45 | Big Slough Deep |
| 4 | ROMP 107 Ocala/Avon Park | 46 | Englewood 14 Deep |
| 5 | ROMP 97 Avon Park | 47 | Manasota 14 Deep |
| 6 | Chassahowitzka 1 Deep | 48 | ROMP TR 5-1 Suwannee |
| 7 | ROMP 134 Ocala/Avon Park | 49 | Florida Cities Test 1 |
| 8 | ROMP TR 124 Avon Park | 50 | ROMP TR 7-1 Tampa |
| 9 | CE 14 Dunnellon Deep | 51 | Kibler Deep |
| 10 | Verna Test 0-1 | | |
| 11 | Sumter 13 JC 59 Upper Floridan | | |
| 12 | Webster City Floridan | | |
| 13 | Inverness DOT Floridan | | |
| 14 | ROMP 103 Suwannee/Ocala | | |
| 15 | Mascotte Deep | | |
| 16 | Lake Alfred Deep near Lake Alfred | | |
| 17 | ROMP 50 Avon Park | | |
| 18 | Pasco 13 Floridan near Drexel | | |
| 19 | ROMP 66 Tampa | | |
| 20 | ROMP 87 Avon Park | | |
| 21 | State Road 577 Deep | | |
| 22 | ROMP 93 Suwannee/Avon Park | | |
| 23 | Hillsborough River State Park Parking Lot Deep | | |
| 24 | Moon Lake Deep | | |
| 25 | State Road 52 Deep West near Fivay Junction | | |
| 26 | Masaryktown Deep | | |
| 27 | Bexley 2 Floridan | | |
| 28 | Pinellas 665 Floridan | | |
| 29 | Tarpon Road Deep | | |
| 30 | Lykes Pasco Floridan | | |
| 31 | ROMP 45 Avon Park | | |
| 32 | ROMP 59 Suwannee/Avon Park | | |
| 33 | Sanlon Ranch Floridan | | |
| 34 | ROMP 31 Suwannee/Avon Park | | |
| 35 | ROMP 30 Suwannee/Avon Park | | |
| 36 | ROMP 16 Ocala | | |
| 37 | ROMP 26 Suwannee/Avon Park | | |
| 38 | Marshall Deep | | |
| 39 | ROMP 28X Suwannee/Avon Park | | |
| 40 | ROMP 43XX Avon Park | | |
| 41 | ROMP 32 Lower Ocala/Avon Park | | |
| 42 | Edgeville 3 Deep | | |

Wellfield Surficial Aquifer Monitoring Stations



Wellfield Groundwater Monitoring Stations



Wellfield Groundwater Monitoring Stations

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|----------------------------|
| 1 | Cypress Creek TMR-1 Deep |
| 2 | Cypress Creek TMR-3 Deep |
| 3 | Morris Bridge 3A Floridan |
| 4 | Cosme 3 Floridan |
| 5 | St. Pete Hillsboro 13 Deep |
| 6 | Eldridge-Wilde 11 Floridan |
| 7 | St. Pete 42 Deep |
| 8 | Cross Bar WRW Floridan |
| 9 | Eldridge-Wilde 2S Deep |
| 10 | State Road 54 Deep |
| 11 | Starkey Regional Floridan |
| 12 | Verna 08 Deep |

Wellfield Surficial Aquifer Monitoring Stations

| <u>Map ID</u> | <u>Site Name</u> |
|---------------|-------------------------------|
| 1 | Cypress Creek TMR-1 Shallow |
| 2 | Morris Bridge 3A Surficial |
| 3 | Cypress Creek TMR-3 Shallow |
| 4 | St. Pete Hillsboro 13 Shallow |
| 5 | St. Pete IC-6 Shallow |
| 6 | Eldridge-Wilde 11 Surficial |
| 7 | Starkey 707 Shallow |
| 8 | Cross Bar SERW Shallow |
| 9 | State Road 54 Shallow |

Reservoir Locations

