Hydrologic Conditions

for the month of

April 2011

Prepared by the Hydrologic Data Section Operations Department



May 19, 2011

http://www.watermatters.org

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ACKNOWLEDGMENTS

The Hydrologic Conditions Report is a monthly effort of the Operation's Department Hydrologic Data Section. Acknowledgment is made to the following staff for their significant contributions, hard work and dedication to the timely production of this report:

Data Collection: Terry Burrell, Dave Dunnett, Don Everson, George

Prine, Steve Saxon, Larry Rivenbark, James Ferrell,

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SCADA System: Mike Katherina.

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DeSmith, and Tammy Plazak.

Administrative Support/ Document Preparation:

Della Haberle and Susie Holton.

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

Americans with Disabilities Act (ADA)

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 May 18, 2011

Provisional rainfall totals are provided for the period of May 1, 2011 through May 17, 2011. The northern region has received an average of 1.41 inches, while the historic mean for the northern region for the month of May is 3.59 inches. The central region has received an average of 1.35 inches, while the historic mean for the central region for May is 3.76 inches. The southern region has received an average of 2.01 inches, while the historic mean for the southern region for May is 3.55 inches.

Provisional lake level data indicate that during the first 17 days of May, regional water levels have decreased in all regions of the District. Average lake levels in the Northern region decreased an average of 0.34 foot and were 3.89 feet below the base of the normal range. Lake levels in the Tampa Bay region decreased an average of 0.23 foot and were 0.42 foot above the base of the normal range. Lake levels in the Polk Uplands region decreased 0.21 foot and were 1.48 feet below the base of the normal range. The Lake Wales Ridge region posted an average decrease of 0.32 foot and was 4.94 feet below the base of the normal range.

As of May 16, 2011, provisional data indicates average streamflow decreased in all three regions of the District, compared to last month's data from regional index streams. The average streamflow for the Withlacoochee River near Holder in the northern region was in the normal range at the 45th percentile. The average streamflow for the Hillsborough River near Zephyrhills in the central region was above-normal at the 86th percentile, while the Peace River at Arcadia in the southern region was below-normal at the 14th percentile. Normal streamflow is defined as flow that falls on or between the 25th and 75th percentiles.

Provisional groundwater data, as of May 16, 2011, indicate that levels in the intermediate and Floridan aquifers were within the normal range in all three regions of the District. The normal range is defined as levels that fall on or between the 25th and 75th percentiles. The groundwater level in the northern region was at the 35th percentile. The groundwater level in the central region was at the 58th percentile, while the southern region was at the 38th percentile.

EXECUTIVE SUMMARY

Hydrologic Conditions for April 2011

In April, average rainfall totals for the northern region of the District was below-normal, while the central and southern regions were in the normal range. 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 1.31 inches of rainfall, equivalent to the 23rd percentile of the historical April record. The central region received an average of 1.27 inches of rainfall, equivalent to the 32nd percentile, while the southern region received an average of 1.44 inches of rainfall, equivalent to the 32nd percentile of the historical April record. The District-wide rainfall average of 1.34 inches was equivalent to the 33rd percentile of the historical April record.

During the 12-month period from May 1, 2010 through April 30, 2011, the average rainfall totals in the northern and southern regions of the District were classified as "drier than normal," while the central region was classified as "normal." The northern region received an average of 46.85 inches of rainfall, equivalent to the 21st percentile of the historical annual record. The central region received an average of 48.64 inches of rainfall, equivalent to the 35th percentile, while the southern region received an average of 45.07 inches of rainfall, equivalent to the 21st percentile. The District-wide rainfall average of 46.91 inches was equivalent to the 25th percentile of the historical annual record.

Average lake levels in April 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 increased by an average of 0.65 foot and were 3.55 feet below the base of the annual normal range. Lake levels in the Tampa Bay region increased an average of 0.48 foot and were 0.65 foot above the base of the annual normal range. Lake levels in the Polk Uplands region increased an average of 0.12 foot and were 1.27 feet below the base of the annual normal range. Average lake levels in the Lake Wales Ridge region decreased 0.03 foot and ended the month 4.62 feet below the base of the annual normal range.

Total streamflow in regional index streams during April was within the normal range in the northern and southern regions of the District, while it was above-normal in the central region. Normal streamflow is defined as that falling on or between the 25th and 75th percentiles. Streamflow measured at the Withlacoochee River near Holder station in the northern region was in the 42nd percentile. Streamflow in the Hillsborough River near Zephyrhills station in the central region was in the 93rd percentile, while total streamflow measured at the Peace River at Arcadia station in the southern region was in the 66th percentile during April.

In April, groundwater data showed that levels in the intermediate and Floridan aquifers increased and ended the month within the normal range in all three regions of the District. The normal range is defined as levels falling on or between the 25th and 75th percentiles. The groundwater level in the northern region was in the 36th percentile, while levels in the central and southern regions were in the 62nd and 38th percentiles, respectively.

REGIONAL OVERVIEW OF HYDROLOGIC CONDITIONS

APRIL 2011

Northern Region

In April, the northern region received an average of 1.31 inches of rainfall, equivalent to the 23rd percentile of the historical April readings, which is considered "drier than normal." Average lake levels increased in the northern region and ended the month an average of 3.55 feet below the base of the annual normal range. Total streamflow measured in the Withlacoochee River near Holder station increased and was in the 42nd percentile. Regional groundwater levels indicated average surficial aquifer water levels increased and were in the 50th percentile; while levels in the intermediate and Floridan aquifer increased and were in the 36th percentile.

Central Region

In April, the central region received an average of 1.27 inches of rainfall, equivalent to the 32nd percentile of historical April readings, which is considered "normal." Average lake levels increased in the Tampa Bay and Polk Uplands regions, ending the month 0.65 foot above and 1.27 feet below, respectively, the base of the annual range. Total streamflow measured at the Hillsborough River near Zephyrhills station increased and was in the 93rd percentile. Regional groundwater levels indicated average surficial aquifer water levels increased and were in the 82nd percentile; while levels in the intermediate and Floridan aquifer increased and were in the 62nd percentile.

Southern Region

In April, the southern region received an average of 1.44 inches of rainfall, equivalent to the 32nd percentile of historical April readings, which is considered "normal." Average lake levels decreased in the Lake Wales Ridge region and ended the month 4.62 feet below the base of the annual normal range. Total streamflow measured at the Peace River at Arcadia station increased and was in the 66th percentile. Regional groundwater levels indicated average surficial aquifer water levels increased and were in the 56th percentile; while levels in the intermediate and Floridan aquifer increased and were in the 38th 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 April, rainfall totals were below-normal in the northern region of the District, while they were within the normal range in the central and southern regions. 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 1.31 inches of rainfall, equivalent to the 23rd percentile of the historical record. The central region received an average of 1.27 inches, equivalent to the 32nd percentile; while the southern region received an average of 1.44 inches, equivalent to the 32nd percentile. District-wide, rainfall averaged 1.34 inches, which is equivalent to the 33rd percentile of the historical April record.

During the 12-month period from May 1, 2010 through April 30, 2011, the average rainfall totals in the northern and southern regions were classified as "drier than normal," while rainfall totals in the central region was classified as "normal." The northern region received an average of 46.85 inches of rainfall, equivalent to the 21st percentile of the historical record. The central region received an average of 48.64 inches of rainfall, equivalent to the 35th percentile. The southern region received an average of 45.07 inches of rainfall, equivalent to the 21st percentile. The District-wide rainfall average was 46.91 inches, which is equivalent to the 25th percentile of the historical annual record.

Tampa Monthly Climate Summary for April 2011

According to the National Weather Service, the monthly average temperature (°F) for Tampa was 76.3 degrees, which was 4.8 degrees above normal. The highest temperature recorded during the month was 90 degrees, while the lowest temperature recorded during the month was 52 degrees. The April 2011 monthly average temperature of 76.3 degrees tied for the warmest April since records began in 1890. The warmest April had an average temperature of 76.8 degrees which occurred in 1991.

Temperature and Precipitation Outlook

The Climate Prediction Center's (CPC) three-month weather forecast, as of May 19, 2011, is inconclusive regarding precipitation and indicates an equal chance for below-normal, normal or above-normal precipitation in all three regions of the District from June through August 2011. The temperature forecast for this same time-period is for above-normal temperatures in all three regions of the District.

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

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

RELATIONSHIP OF APRIL 2011 RAINFALL TO HISTORICAL RAINFALL AVERAGES

Regional Summary:

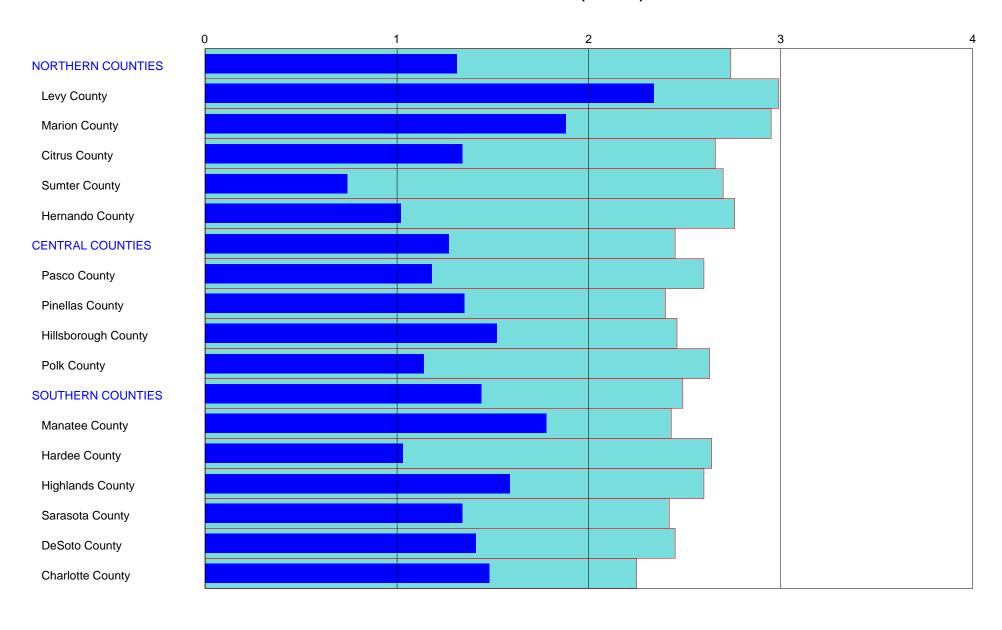
| Region | APR 2011 Average Rainfall | Historical Average for APR | Departure from Historical Average | Calendar Year 2011 Cumulative Rainfall JAN-APR | Calendar Year Historical Cumulative Rainfall JAN-APR | Departure from Historical Cumulative APR 2011 | Cumulative 12-month Rainfall MAY 2010- APR 2011 | Historical 12-month Cumulative Rainfall | Departure from Historical 12-month Cumulative |
|--|---------------------------------|----------------------------------|--|--|--|---|---|--|---|
| Northern Counties | 1.31 | 2.74 | -1.43 | 15.57 | 12.48 | 3.09 | 46.85 | 53.46 | -6.61 |
| Central Counties | 1.27 | 2.45 | -1.18 | 16.33 | 11.40 | 4.93 | 48.64 | 52.44 | -3.80 |
| Southern Counties | 1.44 | 2.49 | -1.05 | 10.49 | 10.39 | 0.10 | 45.07 | 52.33 | -7.26 |
| District All Counties | 1.34 | 2.54 | -1.20 | 14.05 | 11.33 | 2.72 | 46.91 | 52.62 | -5.71 |
| Regional Countie | es Summary: | | | | | | | | |
| NORTHERN COUNTIES | APR 2011 Average Rainfall | Historical Average for APR | Departure from Historical Average | Calendar Year 2011 Cumulative Rainfall JAN-APR | Calendar Year Historical Cumulative Rainfall JAN-APR | Departure from Historical Cumulative APR 2011 | Cumulative 12-month Rainfall MAY 2010- APR 2011 | Historical 12-month Cumulative Rainfall | Departure from Historical 12-month Cumulative |
| Levy County Marion County Citrus County Sumter County Hernando County CENTRAL COUNTIES | 2.34 | 2.99 | -0.65 | 14.01 | 13.48 | 0.53 | 47.13 | 53.89 | -6.76 |
| | 1.88 | 2.95 | -1.07 | 13.40 | 13.05 | 0.35 | 47.16 | 54.22 | -7.06 |
| | 1.34 | 2.66 | -1.32 | 15.41 | 12.46 | 2.95 | 48.43 | 53.94 | -5.51 |
| | 0.74 | 2.70 | -1.96 | 16.01 | 12.21 | 3.80 | 43.84 | 51.96 | -8.12 |
| | 1.02 | 2.76 | -1.74 | 18.08 | 12.47 | 5.61 | 47.93 | 54.88 | -6.95 |
| Pasco County Pinellas County Hillsborough County Polk County | 1.18 | 2.60 | -1.42 | 19.15 | 12.11 | 7.04 | 51.50 | 53.89 | -2.39 |
| | 1.35 | 2.40 | -1.05 | 18.18 | 11.30 | 6.88 | 52.86 | 51.53 | 1.33 |
| | 1.52 | 2.46 | -0.94 | 16.20 | 11.22 | 4.98 | 47.35 | 52.51 | -5.16 |
| | 1.14 | 2.63 | -1.49 | 14.74 | 11.07 | 3.67 | 47.38 | 51.98 | -4.60 |
| Manatee County Hardee County Highlands County Sarasota County DeSoto County Charlotte County | 1.78 | 2.43 | -0.65 | 13.58 | 10.74 | 2.84 | 44.86 | 53.51 | -8.65 |
| | 1.03 | 2.64 | -1.61 | 9.82 | 10.34 | -0.52 | 45.17 | 52.15 | -6.98 |
| | 1.59 | 2.60 | -1.01 | 8.75 | 9.98 | -1.23 | 43.64 | 51.78 | -8.14 |
| | 1.34 | 2.42 | -1.08 | 10.83 | 10.31 | 0.52 | 43.18 | 52.66 | -9.48 |
| | 1.41 | 2.45 | -1.04 | 9.56 | 9.76 | -0.20 | 46.59 | 51.76 | -5.17 |
| | 1.48 | 2.25 | -0.77 | 8.29 | 9.31 | -1.02 | 46.57 | 52.25 | -5.68 |

APRIL 2011 RAINFALL CHARACTERIZATION

Regional Characterization:

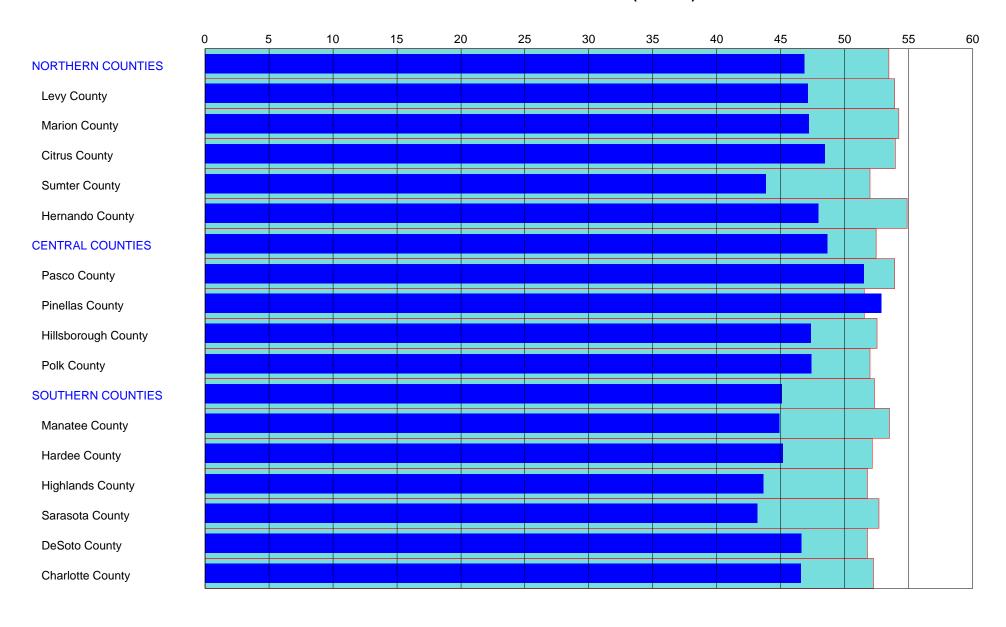
| Region | APR 2011 Average Rainfall | Historical APR Percentile | APR Rainfall Characterization | Cumulative 12-month Historical 12-month Rainfall 12-month Cumulative MAY 2010- Cumulative Rainfall APR 2011 Percentile Characterization | |
|--|--|----------------------------------|--|---|--|
| Northern Counties Central Counties Southern Counties District Counties | 1.31 1.27 1.44 1.34 | 23 32 32 33 | Drier than normal Normal Normal Normal | 46.85 21 Drier than normal 48.64 35 Normal 45.07 21 Drier than normal 46.91 25 Normal | |
| Regional Countie | es Characteriza | tion: | | | |
| NORTHERN COUNTIES | APR 2011 Average Rainfall | Historical APR Percentile | APR Rainfall Characterization | Cumulative 12-month Historical 12-month Rainfall 12-month Cumulative MAY 2010- Cumulative Rainfall APR 2011 Percentile Characterization | |
| Levy County Marion County Citrus County Sumter County Hernando County CENTRAL COUNTIES | 2.34 1.88 1.34 0.74 1.02 | 47 39 29 15 22 | Normal Normal Normal Drier than normal Drier than normal | 47.13 25 Normal 47.16 23 Drier than normal 48.43 28 Normal 43.84 18 Drier than normal 47.93 23 Drier than normal | |
| Pasco County Pinellas County Hillsborough County Polk County SOUTHERN COUNTIES | 1.18 1.35 1.52 1.14 | 29 41 39 22 | Normal Normal Normal Drier than normal | 51.50 41 Normal 52.86 58 Normal 47.35 30 Normal 47.38 31 Normal | |
| Manatee County Hardee County Highlands County Sarasota County DeSoto County Charlotte County | 1.78 1.03 1.59 1.34 1.41 1.48 | 43 20 32 41 28 40 | Normal Drier than normal Normal Normal Normal Normal | 44.86 18 Drier than normal 45.17 22 Drier than normal 43.64 19 Drier than normal 43.18 16 Drier than normal 46.59 32 Normal 46.57 30 Normal | |

APRIL 2011 RAINFALL HISTORIC AVERAGE VS HISTORICAL APRIL AVERAGE (INCHES)

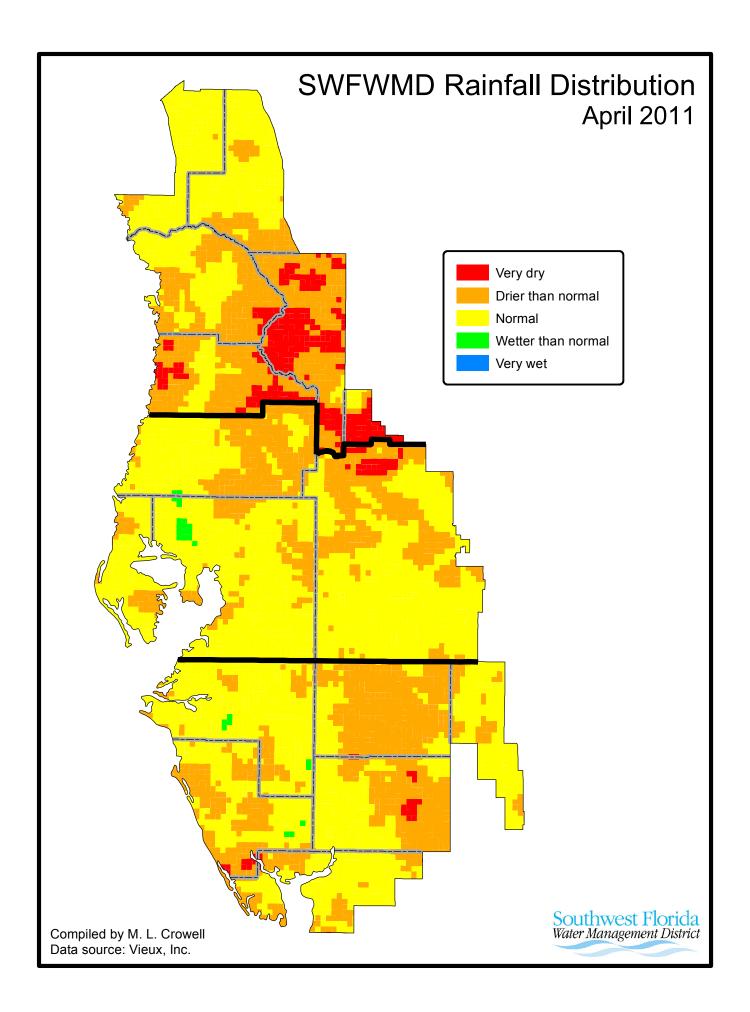


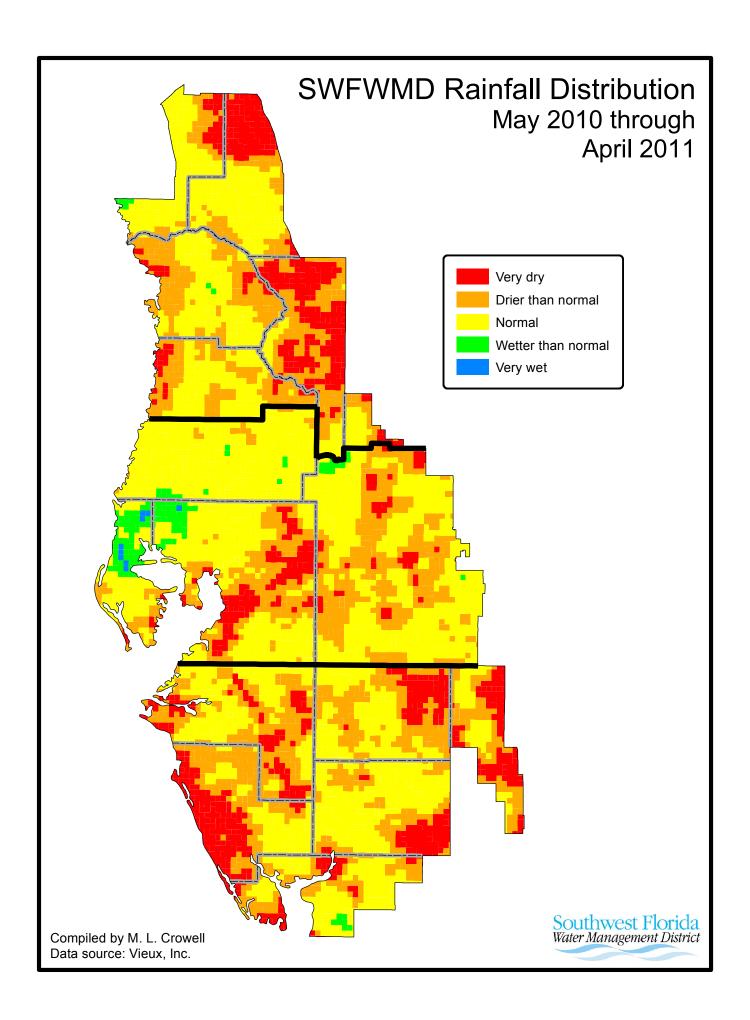


APRIL 2011 12-MONTH CUMULATIVE RAINFALL VS AVERAGE ANNUAL CUMULATIVE (INCHES)









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 April, 56 of the 76 lakes monitored for this report recorded water level increases, 18 recorded decreases, and two were unchanged. Water levels increased in the Northern, Tampa Bay and Polk Uplands regions of the District by 0.65, 0.48 and 0.12 foot, respectively. Water levels decreased in the Lake Wales Ridge region by 0.03 foot. District-wide, average water levels increased by 0.36 foot, compared to last month.

In April, average water levels were lower in 50 of the 76 lakes, higher in 25 lakes, and the same in one lake, compared to April 2010. In the Northern, Tampa Bay, Polk Uplands and Lake Wales Ridge regions, average lake levels were lower by 0.58, 0.23, 0.01 and 0.24 foot, respectively, compared to last year's levels. District-wide, average lake levels were lower by 0.25 foot.

Water levels in 40 of the 76 lakes were below the annual normal range. Average lake levels in the Northern, Polk Uplands, and Lake Wales Ridge regions were 3.55, 1.27 and 4.62 feet, respectively, below the base of the annual normal range. Water levels in the Tampa Bay region were 0.65 foot above the base of the annual normal range. District-wide, average lake levels were 1.28 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 LA | AKES | | | | | Change | Change | Diff | (MELM) | (MLM) | (MF) | Period | | Period | |
|--------------------|----------|------------------------|-------------|-------------|-------------|------------------|------------------|--------------|---------------------|--------------------|---------------------|------------------|--------------------|-------------------|---------------------|
| Lake Name | County | Beginning of Record | MAR 2011 | APR 2011 | APR 2010 | from MAR 2011 | from APR 2010 | from MELM | Drought Year Low | Normal Year Low | Normal Year High | of Record Low | Record Low Date | of Record High | Record High Date |
| Big Fish Lake | Pasco | 1980 | 69.12 | 69.56 | 69.69 | 0.44 | -0.13 | -2.19 | 71.75 | 73.05 | 76.05 | 65.45 | JUN 1997 | 77.40 | SEP 2004 |
| Crews Lake | Pasco | 1984 | 45.72 | 47.35 | 48.80 | 1.63 | -1.45 | -2.65 | 50.00 | 52.00 | 55.00 | 42.63 | APR 2001 | 54.92 | MAR 1998 |
| Hancock Lake | Pasco | 1978 | 93.91 | 95.17 | 94.48 | 1.26 | 0.69 | -6.83 | 102.00 | 104.00 | 106.50 | 90.00 | MAR 2009 | 108.90 | MAR 1998 |
| Hunters Lake | Hernando | 1967 | 14.46 | 14.88 | 14.86 | 0.42 | 0.02 | -1.12 | 16.00 | 17.50 | 20.50 | 11.70 | JUN 2001 | 20.50 | MAR 1970 |
| Lake Iola | Pasco | 1969 | 130.91 | 131.44 | 132.96 | 0.53 | -1.52 | -11.06 | 142.50 | 145.00 | 147.50 | 130.83 | MAR 2011 | 148.70 | JAN 1989 |
| Lake Lindsey | Hernando | 1982 | 61.97 | 62.51 | 63.18 | 0.54 | -0.67 | -1.99 | 64.50 | 66.00 | 69.00 | 61.52 | MAR 2011 | 69.36 | MAR 1998 |
| Little Lake (Consu | Citrus | 1985 | 34.93 | 35.64 | 37.06 | 0.71 | -1.42 | -1.61 | 37.25 | 39.00 | 41.50 | 31.10 | MAY 2001 | 42.84 | SEP 2004 |
| Lake Miona | Sumter | 1985 | 50.20 | 50.30 | 52.12 | 0.10 | -1.82 | -0.70 | 51.00 | 53.00 | 55.00 | 47.88 | MAY 2002 | 55.18 | APR 1998 |
| Moon Lake | Pasco | 1990 | 36.92 | 37.74 | 36.65 | 0.82 | 1.09 | 2.24 | 35.50 | 37.50 | 40.50 | 32.98 | APR 2009 | 41.26 | SEP 2004 |
| Lake Panasoffkee | Sumter | 1962 | 38.66 | 38.98 | 38.81 | 0.32 | 0.17 | 0.48 | 38.50 | 39.50 | 42.50 | 36.93 | JUN 2002 | 43.04 | OCT 2004 |
| Lake Pasadena | Pasco | 1984 | 84.51 | 85.50 | 85.28 | 0.99 | 0.22 | -4.50 | 90.00 | 91.50 | 94.50 | 81.56 | MAY 2001 | 94.86 | OCT 2004 |
| Spring Lake | Hernando | 1965 | 177.66 | 178.01 | 178.03 | 0.35 | -0.02 | -0.24 | 178.25 | 181.25 | 184.25 | 174.75 | APR 2009 | 183.57 | OCT 1984 |
| Floral City Pool | Citrus | 1981 | 38.43 | 39.84 | 40.32 | 1.41 | -0.48 | 1.59 | 38.25 | 40.25 | 42.50 | 30.35 | JUN 2001 | 42.66 | SEP 2004 |
| Inverness Pool | Citrus | 1985 | 37.50 | 37.83 | 39.68 | 0.33 | -1.85 | 1.58 | 36.25 | 38.25 | 40.50 | 31.56 | MAY 2001 | 40.99 | OCT 2004 |
| Hernando Pool | Citrus | 1985 | 36.70 | 36.60 | 38.19 | -0.10 | -1.59 | 1.85 | 34.75 | 36.75 | 39.00 | 31.09 | JUL 2001 | 40.17 | FEB 1998 |

| TAMPA BAY L | AKES | | | | | Change | Change | Diff | (MELM) | (MLM) | (MF) | Period | | Period | |
|-------------------|--------------|------------------------|-------------|-------------|-------------|------------------|------------------|--------------|---------------------|--------------------|---------------------|------------------|--------------------|-------------------|---------------------|
| Lake Name | County | Beginning of Record | MAR 2011 | APR 2011 | APR 2010 | from MAR 2011 | from APR 2010 | from MELM | Drought Year Low | Normal Year Low | Normal Year High | of Record Low | Record Low Date | of Record High | Record High Date |
| Lake Alice | Hillsborough | 1981 | 40.44 | 40.56 | 39.75 | 0.12 | 0.81 | 3.06 | 37.50 | 40.25 | 42.25 | 33.24 | MAY 2002 | 42.42 | SEP 2004 |
| Lake Ann-Parker | Pasco | 1983 | 47.80 | 48.03 | 48.18 | 0.23 | -0.15 | 3.03 | 45.00 | 45.75 | 48.75 | 43.28 | JUN 2001 | 48.59 | AUG 2010 |
| Bay Lake | Hillsborough | 1982 | 45.91 | 45.61 | 45.64 | -0.30 | -0.03 | 3.11 | 42.50 | 44.00 | 46.75 | 41.86 | APR 1985 | 46.46 | DEC 1997 |
| Lake Brant | Hillsborough | 1981 | 56.62 | 57.69 | 58.19 | 1.07 | -0.50 | 3.19 | 54.50 | 56.50 | 58.75 | 51.65 | JUN 1994 | 58.76 | AUG 2003 |
| Brooker Lake | Hillsborough | 1977 | 62.21 | 62.58 | 63.36 | 0.37 | -0.78 | 3.58 | 59.00 | 61.00 | 64.25 | 56.49 | MAY 2002 | 64.08 | DEC 1997 |
| Calm Lake | Hillsborough | 1982 | 48.91 | 49.68 | 48.38 | 0.77 | 1.30 | 4.68 | 45.00 | 47.50 | 50.50 | 41.88 | JUN 2002 | 50.73 | SEP 2004 |
| Camp Lake | Pasco | 1983 | 62.03 | 62.94 | 63.50 | 0.91 | -0.56 | 3.94 | 59.00 | 61.75 | 64.00 | 50.82 | MAY 2002 | 64.00 | SEP 1987 |
| Carlton Lake | Hillsborough | 1976 | 88.60 | 88.94 | 91.42 | 0.34 | -2.48 | 0.94 | 88.00 | 90.50 | 93.50 | 86.82 | MAY 2001 | 94.60 | FEB 1998 |
| Lake Carroll | Hillsborough | 1985 | 34.88 | 35.18 | 35.68 | 0.30 | -0.50 | 2.68 | 32.50 | 34.50 | 37.00 | 30.87 | MAY 2002 | 38.06 | DEC 1997 |
| Church Lake | Hillsborough | 1983 | 35.59 | 35.60 | 35.61 | 0.01 | -0.01 | 4.10 | 31.50 | 34.00 | 36.25 | 27.94 | MAY 2002 | 36.90 | JUL 1987 |
| Lake Cooper | Hillsborough | 1980 | 59.79 | 60.15 | 60.65 | 0.36 | -0.50 | 3.15 | 57.00 | 59.75 | 61.75 | 55.60 | JUN 2001 | 61.84 | FEB 1998 |
| Crescent Lake | Hillsborough | 1981 | 42.02 | 41.79 | 42.17 | -0.23 | -0.38 | 3.29 | 38.50 | 40.00 | 42.50 | 35.34 | JUN 2001 | 42.48 | SEP 2009 |
| Deer Lake | Hillsborough | 1977 | 64.78 | 65.34 | 65.02 | 0.56 | 0.32 | 2.84 | 62.50 | 64.50 | 67.25 | 60.72 | MAY 2002 | 67.42 | DEC 1997 |
| Egypt Lake | Hillsborough | 1978 | 35.61 | 36.56 | 36.94 | 0.95 | -0.38 | 4.06 | 32.50 | 35.00 | 37.50 | 33.06 | MAY 2000 | 38.15 | SEP 1985 |
| Gornto Lake | Hillsborough | 1979 | 34.80 | 35.07 | 36.30 | 0.27 | -1.23 | 1.07 | 34.00 | 36.00 | 38.50 | 29.86 | MAR 1979 | 39.48 | FEB 1998 |
| Lake Harvey | Hillsborough | 1970 | 60.80 | 61.16 | 62.03 | 0.36 | -0.87 | 3.16 | 58.00 | 60.25 | 62.50 | 53.94 | MAY 2002 | 63.90 | DEC 1997 |
| Lake Hiawatha | Hillsborough | 1981 | 49.32 | 49.88 | 51.12 | 0.56 | -1.24 | 4.88 | 45.00 | 48.00 | 50.50 | 46.14 | JUN 2000 | 51.12 | APR 2010 |
| Horse Lake | Hillsborough | 1930 | 44.26 | 44.61 | 43.71 | 0.35 | 0.90 | 2.61 | 42.00 | 44.00 | 46.50 | 36.33 | JUN 2002 | 50.00 | AUG 1959 |
| Lake Keene | Hillsborough | 1981 | 62.21 | 62.26 | 62.47 | 0.05 | -0.21 | 3.26 | 59.00 | 60.50 | 63.00 | 56.12 | JUN 2002 | 63.27 | SEP 1985 |
| Keystone Lake | Hillsborough | 1984 | 42.04 | 41.78 | 41.83 | -0.26 | -0.05 | 2.78 | 39.00 | 39.75 | 42.00 | 37.84 | JUN 2000 | 43.26 | SEP 1988 |
| King Lake | Pasco | 1978 | 96.42 | 98.54 | 97.62 | 2.12 | 0.92 | -1.46 | 100.00 | 102.50 | 105.25 | 83.14 | JAN 1982 | 104.88 | SEP 1983 |
| Lake Leclare | Hillsborough | 1977 | 50.26 | 50.96 | 50.70 | 0.70 | 0.26 | 3.96 | 47.00 | 49.50 | 52.00 | 44.95 | JUN 2001 | 52.34 | DEC 1997 |
| Lake Linda | Pasco | 1970 | 64.87 | 65.59 | 66.28 | 0.72 | -0.69 | 3.59 | 62.00 | 64.00 | 66.75 | 60.07 | MAY 2001 | 66.87 | AUG 2003 |
| Little Lake | Hillsborough | 1979 | 45.15 | 45.49 | 45.96 | 0.34 | -0.47 | 3.49 | 42.00 | 43.50 | 46.50 | 38.06 | JUN 1994 | 46.44 | FEB 1998 |
| Long Pond | Hillsborough | 1978 | 43.51 | 43.47 | 43.45 | -0.04 | 0.02 | 1.47 | 42.00 | 44.00 | 46.50 | 36.33 | MAY 1979 | 48.27 | SEP 1998 |
| Mud (Walden) Lake | Hillsborough | 1978 | 112.68 | 112.68 | 113.28 | 0.00 | -0.60 | 2.18 | 110.50 | 112.50 | 115.00 | 111.90 | APR 2009 | 114.42 | MAR 1978 |
| Lake Padgett | Pasco | 1966 | 68.86 | 69.54 | 69.98 | 0.68 | -0.44 | 2.04 | 67.50 | 69.00 | 71.25 | 66.27 | JUN 2001 | 71.90 | SEP 1988 |
| Platt Lake | Hillsborough | 1981 | 48.20 | 49.36 | 49.69 | 1.16 | -0.33 | 3.36 | 46.00 | 47.75 | 50.50 | 42.53 | JUN 2001 | 51.36 | SEP 1998 |
| Rainbow Lake | Hillsborough | 1981 | 37.38 | 38.08 | 36.78 | 0.70 | 1.30 | 3.08 | 35.00 | 37.50 | 40.50 | 29.82 | JUN 2002 | 40.74 | AUG 2003 |
| Lake Stemper | Hillsborough | 1983 | 59.63 | 60.75 | 61.30 | 1.12 | -0.55 | 2.75 | 58.00 | 59.50 | 62.00 | 53.36 | JUN 2001 | 61.68 | SEP 2004 |
| Lake Thomas | Hillsborough | 1981 | 62.11 | 62.78 | 63.40 | 0.67 | -0.62 | 3.53 | 59.25 | 61.25 | 63.50 | 56.48 | JUN 2002 | 63.58 | MAR 1987 |
| Turkey Ford Lake | Hillsborough | 1970 | 50.67 | 51.20 | 52.04 | 0.53 | -0.84 | 1.20 | 50.00 | 51.50 | 54.00 | 48.07 | JUN 1985 | 55.28 | SEP 1988 |
| Lake Wimauma | Hillsborough | 1985 | 76.18 | 76.58 | 75.72 | 0.40 | 0.86 | -4.42 | 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 UPLAN | | Beginning | MAR | APR | APR | Change from MAR | Change from APR | Diff from | (MELM) Drought | (MLM) Normal | (MF) Normal | Period of Record | Record | Period of Record | Record |
|-----------------|------------|-----------|--------|--------|--------|--------------------|--------------------|--------------|-------------------|-----------------|----------------|---------------------|----------|---------------------|-----------|
| Lake Name | County | of Record | 2011 | 2011 | 2010 | 2011 | 2010 | MELM | Year Low | Year Low | Year High | Low | Low Date | High | High Date |
| Lake Alfred | Polk | 1990 | 125.78 | 125.73 | 125.65 | -0.05 | 0.08 | -0.52 | 126.25 | 128.25 | 130.75 | 124.42 | APR 2009 | 132.76 | MAR 1998 |
| Lake Ariana | Polk | 1958 | 133.88 | 133.90 | 133.62 | 0.02 | 0.28 | 1.40 | 132.50 | 134.50 | 137.00 | 131.80 | APR 2009 | 137.04 | OCT 1959 |
| Lake Arietta | Polk | 1981 | 138.53 | 138.58 | 138.62 | 0.05 | -0.04 | 0.58 | 138.00 | 141.00 | 144.00 | 137.32 | JUN 2009 | 143.80 | OCT 2004 |
| Blue Lake South | Polk | 1986 | 109.62 | 109.66 | 110.85 | 0.04 | -1.19 | -2.84 | 112.50 | 114.00 | 117.00 | 9.13 | JUL 2000 | 119.19 | DEC 2005 |
| Lake Bonny | Polk | 1954 | 129.15 | 129.45 | 125.18 | 0.30 | 4.27 | 3.45 | 126.00 | 128.00 | 130.50 | 122.34 | MAY 2009 | 133.08 | SEP 2004 |
| Lake Buffum | Polk | 1981 | 125.90 | 126.13 | 125.72 | 0.23 | 0.41 | -0.62 | 126.75 | 129.25 | 132.25 | 30.89 | MAY 1981 | 133.00 | JUN 2005 |
| Clearwater Lake | Polk | 1979 | 139.90 | 140.60 | 141.32 | 0.70 | -0.72 | 1.60 | 139.00 | 141.00 | 143.50 | 137.93 | MAY 2001 | 146.06 | AUG 1984 |
| Lake Conine | Polk | 1989 | 126.60 | 126.64 | 125.90 | 0.04 | 0.74 | 2.14 | 124.50 | 126.50 | 128.75 | 123.83 | NOV 2009 | 129.95 | SEP 2004 |
| Eagle Lake | Polk | 1965 | 124.90 | 124.82 | 125.60 | -0.08 | -0.78 | -1.68 | 126.50 | 128.50 | 130.75 | 120.87 | MAY 1967 | 131.50 | SEP 1996 |
| Lake Fannie | Polk | 1967 | 120.98 | 121.09 | 120.88 | 0.11 | 0.21 | 1.09 | 120.00 | 123.50 | 125.75 | 118.67 | MAY 1977 | 127.51 | SEP 2004 |
| Lake Garfield | Polk | 1982 | 102.90 | 103.20 | 103.45 | 0.30 | -0.25 | 3.20 | 100.00 | 101.00 | 104.75 | 97.38 | JUN 2001 | 105.70 | FEB 1998 |
| Lake Hamilton | Polk | 1981 | 119.40 | 119.43 | 119.50 | 0.03 | -0.07 | 2.18 | 117.25 | 119.00 | 121.50 | 116.61 | JUN 2001 | 123.96 | OCT 2004 |
| Lake Helene | Polk | 1975 | 136.56 | 137.18 | 137.77 | 0.62 | -0.59 | -1.82 | 139.00 | 141.00 | 144.00 | 134.52 | JUN 2008 | 146.42 | MAR 1998 |
| Lake Howard | Polk | 1946 | 129.68 | 129.68 | 129.68 | 0.00 | 0.00 | 2.68 | 127.00 | 129.50 | 132.00 | 127.69 | MAY 2001 | 133.08 | SEP 2004 |
| Lake Juliana | Polk | 1975 | 128.04 | 128.42 | 128.74 | 0.38 | -0.32 | 0.92 | 127.50 | 130.00 | 132.50 | 126.30 | MAY 1976 | 134.10 | MAR 1998 |
| Lake Mcleod | Polk | 1983 | 124.50 | 124.45 | 125.56 | -0.05 | -1.11 | -3.55 | 128.00 | 129.50 | 132.00 | 26.46 | JUL 2000 | 131.98 | SEP 1998 |
| Lake Otis | Polk | 1954 | 123.92 | 123.87 | 124.58 | -0.05 | -0.71 | 0.87 | 123.00 | 125.00 | 128.00 | 119.58 | MAY 1976 | 129.12 | SEP 1960 |
| Lake Ruby | Polk | 1974 | 124.34 | 124.32 | 124.36 | -0.02 | -0.04 | 3.32 | 121.00 | 123.00 | 125.25 | 120.68 | JUN 1974 | 125.98 | SEP 2004 |
| Lake Gibson | Polk | 1984 | 143.05 | 142.67 | 143.04 | -0.38 | -0.37 | 1.17 | 141.50 | 141.50 | 143.50 | 140.21 | MAY 2009 | 145.40 | SEP 1988 |
| | | | | | | | | | | | | | | | |
| LK WALES R | IDGE LAKES | | | | | Change | Change | Diff | (MELM) | (MLM) | (MF) | Period | | Period | |
| | | Beginning | MAR | APR | APR | from MAR | from APR | from | Drought | Normál | Normal | of Record | Record | of Record | Record |
| Lake Name | County | of Record | 2011 | 2011 | 2010 | 2011 | 2010 | MELM | Year Low | Year Low | Year High | Low | Low Date | High | High Date |
| Lake Annie | Polk | 1983 | 110.30 | 110.25 | 111.42 | -0.05 | -1.17 | -3.75 | 114.00 | 116.00 | 119.00 | 108.36 | JUN 1990 | 117.56 | OCT 2005 |
| Lake Clav | Highlands | 1983 | 76.52 | 76.48 | 77.73 | -0.04 | -1.25 | 1.48 | 75.00 | 76.00 | 78.75 | 74.34 | MAY 2001 | 78.38 | OCT 1995 |
| Crooked Lake | Polk | 1976 | 114.38 | 114.96 | 115.54 | 0.58 | -0.58 | -2.04 | 117.00 | 118.50 | 122.00 | 99.10 | FEB 1976 | 123.44 | AUG 2005 |
| Lake Jackson | Highlands | 1976 | 98.71 | 98.58 | 98.48 | -0.13 | 0.10 | 0.58 | 98.00 | 100.00 | 103.00 | 96.37 | JUN 2008 | 103.16 | MAR 1998 |
| Lake Letta | Highlands | 1981 | 92.05 | 91.77 | 92.77 | -0.28 | -1.00 | -3.23 | 95.00 | 97.00 | 100.00 | 90.27 | JUN 2008 | 100.00 | MAR 1998 |
| Lake Lotela | Highlands | 1989 | 98.65 | 98.48 | 98.14 | -0.17 | 0.34 | -5.52 | 104.00 | 105.00 | 108.50 | 97.00 | JUN 2008 | 108.92 | MAR 1998 |
| Lake Placid | Highlands | 1984 | 89.83 | 89.85 | 89.77 | 0.02 | 0.08 | -0.15 | 90.00 | 91.50 | 94.50 | 88.08 | JUN 2008 | 94.24 | SEP 2003 |
| Starr Lake | Polk | 1983 | 99.90 | 99.88 | 98.87 | -0.02 | 1.01 | -8.12 | 108.00 | 110.00 | 113.00 | 96.23 | JUL 2001 | 109.80 | DEC 2005 |
| Trout Lake | Liablanda | 1000 | 00.00 | 00.00 | 90.07 | 0.02 | 0.07 | 4.05 | 05.00 | 00.00 | 101.00 | 07.45 | MAY 2001 | 09.00 | MAD 1000 |

0.27

-4.85

95.00

98.00

101.00

87.15

MAY 2001

98.90

MAR 1998

-0.18

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

Polk Highlands

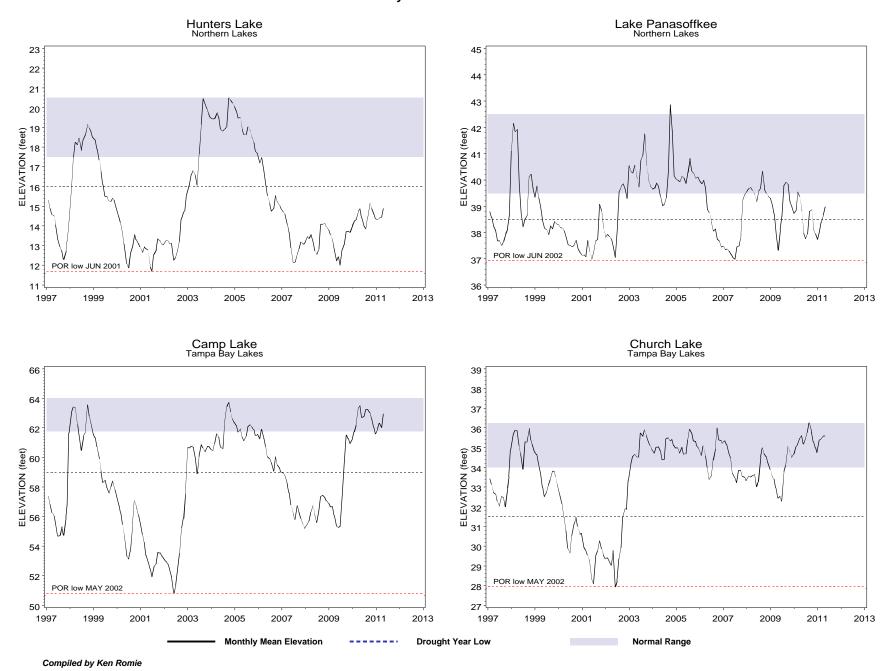
Trout Lake

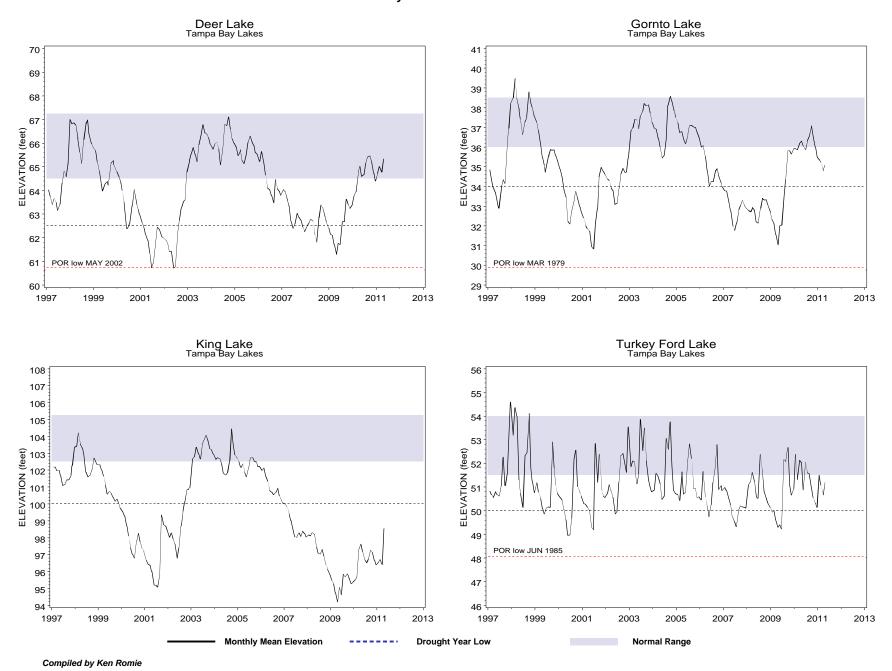
1981

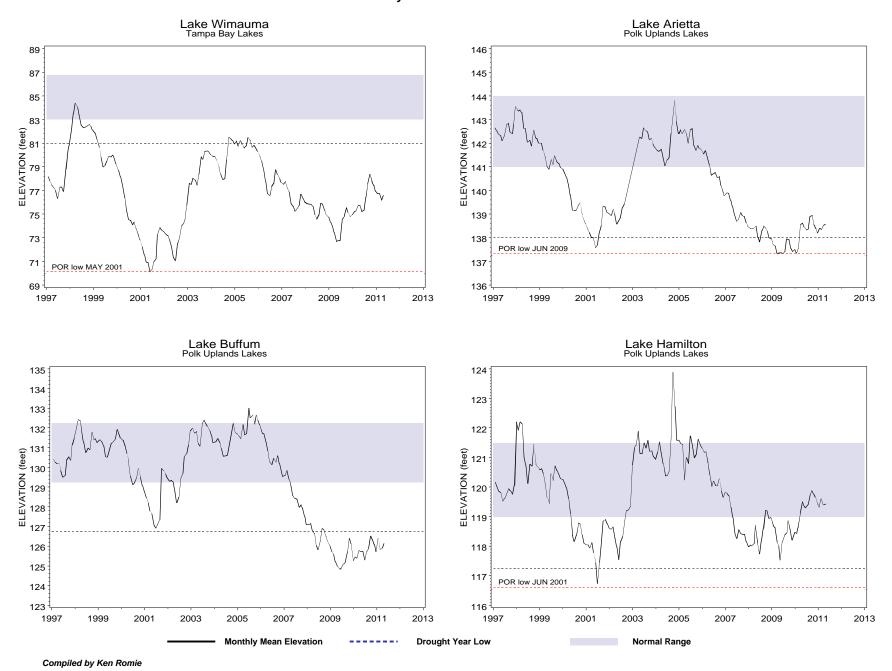
90.33

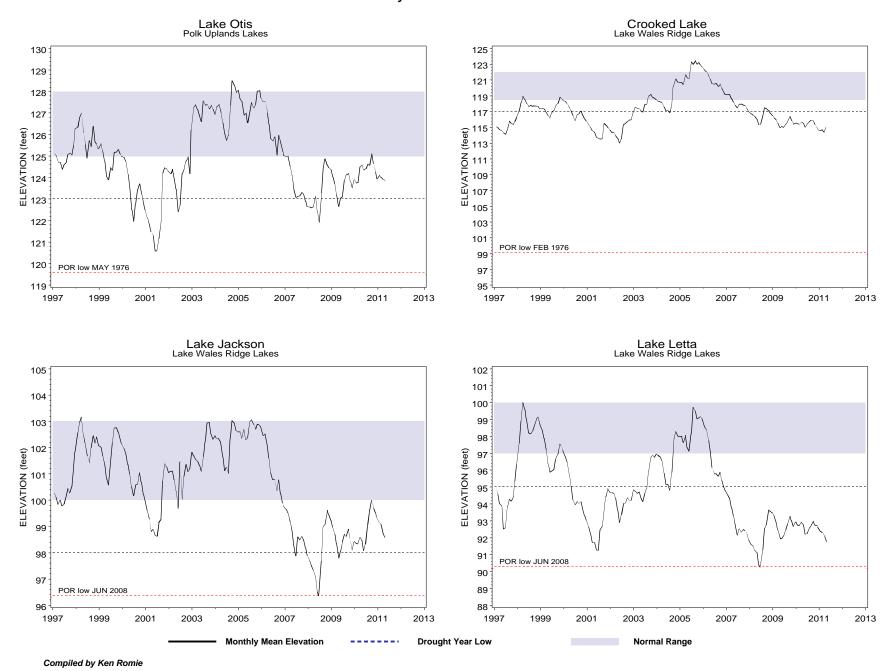
90.15

89.88









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 April, all twelve stations monitored for this report had increased streamflow compared to last month. Total streamflow increased in the northern, central and southern regions of the District by 316.3 cfs (204.3 mgd), 974.3 cfs (629.4 mgd) and 712.8 cfs (460.5 mgd), respectively. District-wide, total streamflow increased an average of 2522.8 cfs (1629.7 mgd).

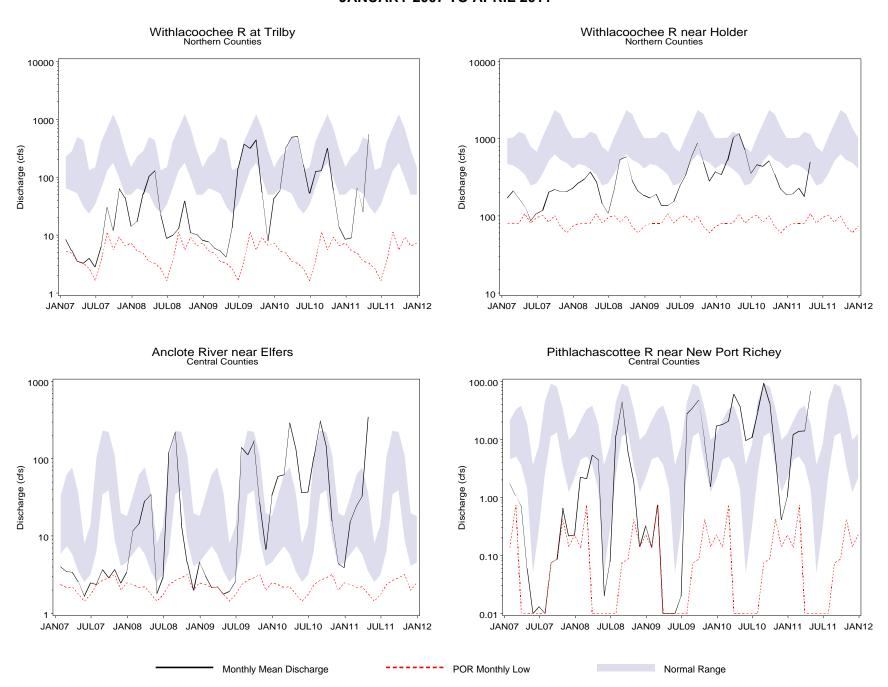
Six of the twelve monitoring stations recorded lower streamflow in April 2011 than in April 2010. Streamflow was lower in the northern and southern regions by 660.6 cfs (426.7 mgd) and 214.4 cfs (138.5 mgd), respectively, while it was higher in the central region by 296.7 cfs (191.7 mgd). District-wide, total streamflow was lower, on average, by 536.1 cfs (346.3 mgd), than the April 2010 average.

Compared to historical April discharge values, Withlacoochee River streamflow, measured at the Trilby station and the Holder station averaged in the 84th and 42nd percentiles, respectively. Streamflow measured at the stations on the Anclote, Pithlachascotee and Hillsborough Rivers averaged in the 100th, 97th and 93rd percentiles of respective historical April readings. Streamflow measured at the Alafia River, Little Manatee River and Peace River at Bartow stations averaged in the 74th, 94th and 56th percentiles of respective historical April readings. Additionally, streamflow measured at the Josephine Creek, Manatee River, Myakka River and Peace River at Arcadia stations averaged in the 29th, 95th, 85th and 66th percentiles of respective historical April readings.

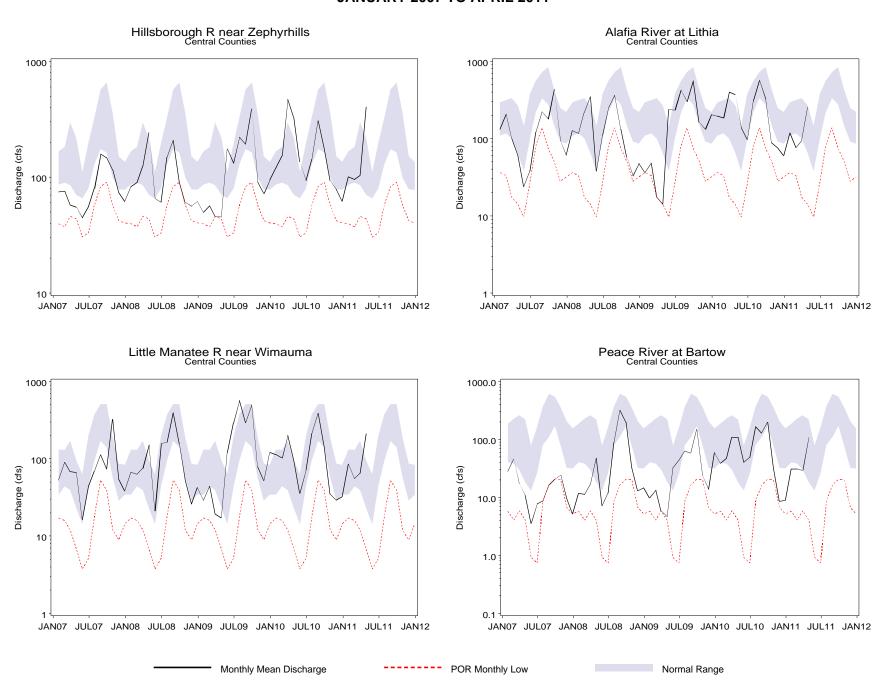
SUMMARY OF STREAM DISCHARGE FROM MAJOR STREAMS (CFS), APRIL 2011

| NORTHERN COUNTIES | Beginning | Mean | Mean | Mean | Change | Change | APR 2011 | Period of | Record | Period of | Record |
|---|--|---|---|--|--|--|---|---|--|---|--|
| | Year of | Discharge | Discharge | Discharge | from | from | Percentile | Record | Low | Record | High |
| | Record | APR 2011 | MAR 2011 | APR 2010 | MAR 2011 | APR 2010 | Rank | Low | Date | High | Date |
| Withlacoochee R at Trilby Withlacoochee R near Holder | 1928 | 544.6 | 25.2 | 502.4 | 519.4 | 42.2 | 84% | 0.1 | JUN2000 | 8840 | JUN1934 |
| | 1928 | 495.0 | 178.7 | 1155.6 | 316.3 | -660.6 | 42% | 33.0 | MAR2001 | 8660 | APR1960 |
| CENTRAL COUNTIES | | | | | | | | | | | |
| Anclote River near Elfers Pithlachascottee R near New Port Riche Hillsborough R near Zephyrhills Alafia River at Lithia Little Manatee R near Wimauma Peace River at Bartow | 1946 y 1963 1939 1932 1939 | 345.4 68.1 402.3 256.3 211.8 107.7 | 32.7 14.2 103.7 94.4 65.1 29.4 | 135.4 37.7 325.3 371.9 94.6 109.8 | 312.7 53.9 298.6 161.9 146.7 78.3 | 210.0 30.4 77.0 -115.6 117.2 -2.1 | 100% 97% 93% 74% 94% 56% | 0.8 0.0 27.0 4.1 0.9 0.0 | MAY1962 JUN2009 MAY2001 JUN2000 DEC1976 MAY2009 | 3710 1420 12300 40800 11100 4100 | JUL1960 SEP1988 MAR1960 SEP1933 SEP1960 SEP1947 |
| SOUTHERN COUNTIES | | | | | | | | | | | |
| Josephine Cr near DeSoto City | 1946 | 9.8 | 9.3 | 32.1 | 0.5 | -22.3 | 29% | 0.5 | MAY1956 | 1680 | SEP1948 |
| Manatee River near Myakka Head | 1966 | 80.4 | 21.6 | 31.7 | 58.8 | 48.7 | 95% | 0.1 | MAY1975 | 6440 | JUN2003 |
| Myakka River near Sarasota | 1936 | 170.2 | 22.2 | 172.4 | 148.0 | -2.2 | 85% | 0.0 | MAY2009 | 10800 | JUN2003 |
| Peace River at Arcadia | 1931 | 547.9 | 120.2 | 806.7 | 427.7 | -258.8 | 66% | 5.6 | MAY2000 | 34700 | SEP1933 |

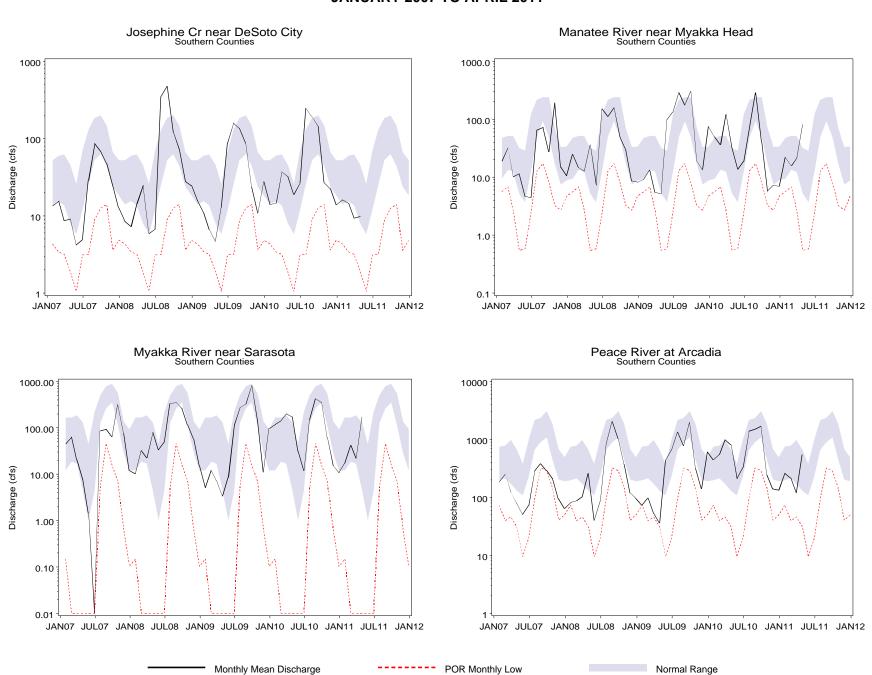
HYDROGRAPHS OF MAJOR STREAMS JANUARY 2007 TO APRIL 2011



HYDROGRAPHS OF MAJOR STREAMS JANUARY 2007 TO APRIL 2011



HYDROGRAPHS OF MAJOR STREAMS JANUARY 2007 TO APRIL 2011



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 WMIS 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 April, five of the seven stations reported increased springflow, compared to the previous month. Total springflow decreased in the northern region of the District by 2.9 cfs (1.8 mgd), while it increased in the central region by 16.3 cfs (10.5 mgd). District-wide, springflow increased by 13.4 cfs (8.7 mgd).

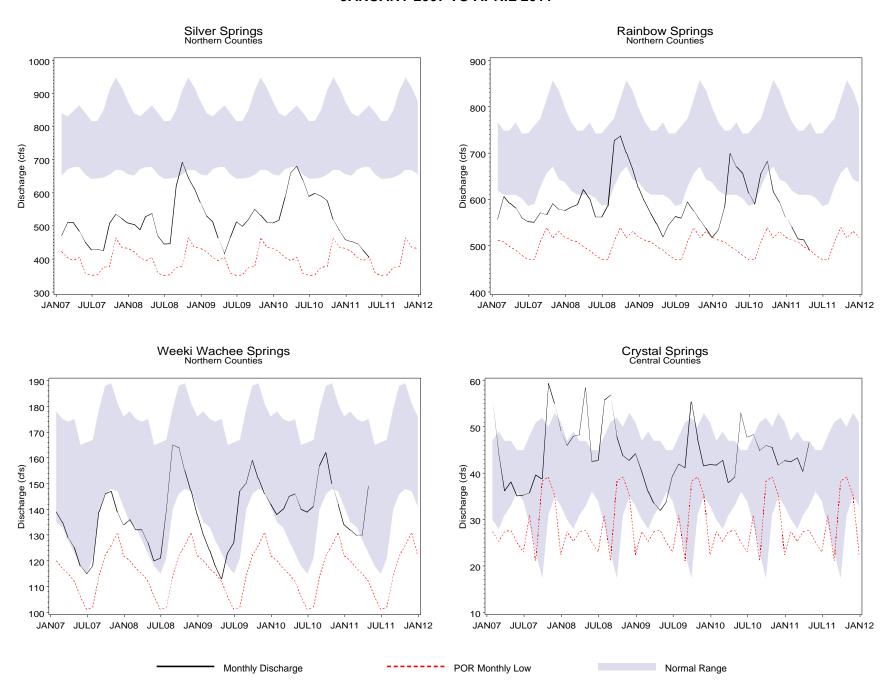
Total springflow recorded in five of the seven stations was lower in April 2011 than April 2010. Total springflow for the northern and central regions was lower by 455.5 cfs (294.4 mgd) and 15.5 cfs (10.0 mgd), respectively. District-wide, springflow decreased by 471.0 cfs (304.4 mgd), compared to April 2010 rates.

Compared to historical period-of-record values for April, total springflow measured in Rainbow, Silver and Weeki Wachee Springs, in the northern region, was in the 2nd, 1st and 54th percentiles of respective historical readings. Springflow measured in Crystal, Sulphur, Buckhorn and Lithia Springs in the central region was in the 75th, 31st, 32nd and 60th percentiles, respectively, of historical April readings.

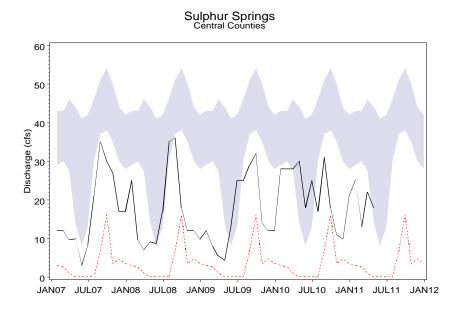
SUMMARY OF SPRINGS DISCHARGE FROM MAJOR SPRINGS (CFS), APRIL 2011

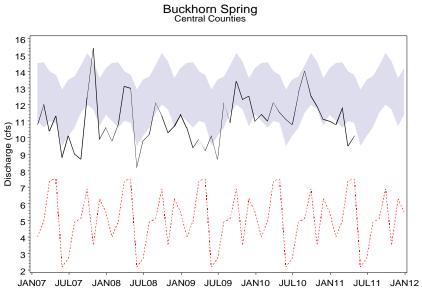
| NORTHERN COUNTIES | APR 2011 Discharge | MAR 2011 Discharge | APR 2010 Discharge | Change From MAR 2011 | Change From APR 2010 | APR 2011 Percentile Rank | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|---|-------------------------|-------------------------|-------------------------|----------------------------|----------------------------|--------------------------------|----------------------------|-------------------------------|-----------------------------|-------------------------------|
| Rainbow Springs Silver Springs Weeki Wachee Springs | 500.0 418.7 149.1 | 509.6 434.0 127.1 | 687.4 690.8 145.1 | -9.6 -15.3 22.0 | -187.4 -272.1 4.0 | 2% 1% 54% | 470.0 350.0 101.0 | JUN2001 JUN2001 JUN1994 | 1060.0 1290.0 257.0 | SEP1988 OCT1960 OCT2004 |
| CENTRAL COUNTIES | | | | | | | | | | |
| Crystal Springs | 46.5 | 40.4 | 39.2 | 6.1 | 7.3 | 75% | 21.1 | AUG2003 | 86.3 | AUG1995 |
| Sulphur Springs | 21.1 | 14.5 | 28.1 | 6.6 | -7.0 | 31% | 0.0 | JUN1994 | 145.0 | MAR1960 |
| Buckhorn Springs | 11.0 | 10.2 | 11.9 | 0.8 | -0.9 | 32% | 2.2 | MAY2006 | 32.7 | AUG2004 |
| Lithia Springs | 34.1 | 31.3 | 49.0 | 2.8 | -14.9 | 60% | 9.1 | MAY2000 | 91.5 | NOV2004 |

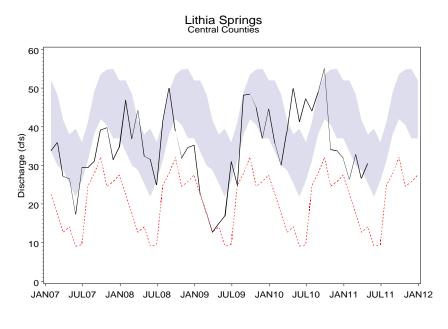
HYDROGRAPHS OF REGIONAL SPRINGS JANUARY 2007 TO APRIL 2011



HYDROGRAPHS OF REGIONAL SPRINGS JANUARY 2007 TO APRIL 2011







Monthly Discharge

POR Monthly Low

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 April, ten of the twelve surficial aquifer wells recorded water level increases compared to last month. Regionally, average surficial aquifer water levels increased in the northern, central and southern regions of the District by 1.52 feet, 0.98 foot and 0.23 foot, respectively. District-wide, average surficial aquifer water levels increased by 0.88 foot.

In April, average water levels in eight of the twelve surficial aquifer wells were lower than April 2010 levels. Average surficial aquifer water levels were lower in the northern and southern regions by 1.10 and 1.94 feet, respectively, while they were higher in the central region by 0.32 foot. District-wide, average water levels in surficial wells were 0.48 foot lower than April 2010 levels.

For April, water levels were within the normal range in all twelve surficial wells. Average surficial aquifer water levels in the northern region were 1.98 feet above the bottom of the normal range, while in the central and southern regions they were above by 2.89 feet and 0.97 foot, respectively. District-wide, the average water level in surficial wells was 2.26 feet above the bottom of the normal range.

SUMMARY OF SURFICIAL AQUIFER LEVELS IN REPRESENTATIVE WELLS, APRIL 2011

| NORTHERN COUNTIES | APR 2011 Elev | MAR 2011 Elev | APR 2010 Elev | Change From MAR 2011 | Change From APR 2010 | APR Historical Low Normal | APR Historical High Normal | Departure From Low Normal | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|--|---------------------|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|------------------------------------|----------------------------|-----------------------|-----------------------------|------------------------|
| Green Swamp | 90.75 | 88.67 | 92.50 | 2.08 | -1.75 | 87.36 | 90.86 | 3.39 | 82.95 | MAY2000 | 93.07 | SEP1985 |
| Lecanto 2 | 7.39 | 6.42 | 7.83 | 0.97 | -0.44 | 6.82 | 8.77 | 0.57 | 5.76 | MAY2001 | 13.92 | SEP1974 |
| CENTRAL COUNTIES | | | | | | | | | | | | |
| Loughman Lutz-Lake Fern ROMP 50 Shallow SR 33 & Combee Road SR 577 Shallow Tarpon Road Shallow USGS P-48 | 92.20 | 90.77 | 93.25 | 1.43 | -1.05 | 90.48 | 91.98 | 1.72 | 88.19 | AUG2000 | 95.79 | SEP2004 |
| | 57.98 | 57.22 | 57.43 | 0.76 | 0.55 | 55.77 | 57.14 | 2.21 | 52.64 | NOV2009 | 61.10 | SEP1986 |
| | 42.09 | 41.63 | 41.66 | 0.46 | 0.43 | 40.97 | 41.64 | 1.12 | 38.01 | OCT2010 | 44.05 | SEP2001 |
| | 133.08 | 132.15 | 134.16 | 0.93 | -1.08 | 132.35 | 134.58 | 0.73 | 129.16 | FEB2001 | 136.97 | OCT1995 |
| | 126.98 | 125.28 | 125.10 | 1.70 | 1.88 | 117.35 | 123.44 | 9.63 | 110.18 | FEB1991 | 129.02 | AUG2003 |
| | 13.25 | 11.64 | 11.68 | 1.61 | 1.57 | 10.58 | 12.63 | 2.67 | 9.31 | JUN1978 | 16.93 | SEP1971 |
| | 99.88 | 99.89 | 99.94 | -0.01 | -0.06 | 97.73 | 99.56 | 2.15 | 67.61 | JUN1963 | 104.79 | SEP2004 |
| SOUTHERN COUNTIES | | | | | | | | | | | | |
| Edgeville 4 Shallow | 66.42 | 65.93 | 68.04 | 0.49 | -1.62 | 66.12 | 67.53 | 0.30 | 63.85 | MAY1975 | 69.93 | SEP1971 |
| ROMP 26 Shallow | 68.75 | 68.41 | 70.82 | 0.34 | -2.07 | 67.57 | 70.37 | 1.18 | 64.32 | JUN1999 | 75.11 | JUN1982 |
| SR 74 | 15.16 | 15.31 | 17.29 | -0.15 | -2.13 | 13.72 | 14.84 | 1.44 | 12.66 | MAY2000 | 18.32 | JUL2001 |

Intermediate and Floridan Aquifers

In April, 35 of the 51 intermediate and Floridan aquifer wells monitored for this report recorded water level increases. Regionally, average water levels increased in the northern, central and southern regions of the District by 0.97 foot, 1.11 feet and 0.16 foot, respectively. District-wide, the mean water level in the intermediate and Floridan aquifer wells increased 0.72 foot.

During April, water levels in 42 of the 51 intermediate and Floridan aquifer wells were lower than those measured in April 2010. Regionally, the mean water level in the northern, central and southern regions was lower by 1.14, 1.30 and 5.83 feet, respectively, than April 2010 levels. District-wide, average water levels in intermediate and Floridan aquifer wells were 2.94 feet lower than last year.

For April, 40 of the 51 intermediate and Floridan aquifer wells had levels in the normal range, compared to historical monthly levels. The average water levels in the northern, central and southern regions were 0.20 foot, 4.20 feet and 2.25 feet, respectively, above the bottom of the normal range. District-wide, the average water level in intermediate and Floridan aquifer wells was 2.37 feet above the bottom of the normal range.

SUMMARY OF INTERMEDIATE AND FLORIDAN AQUIFER LEVELS IN REPRESENTATIVE WELLS, APRIL 2011

Regional Summary:

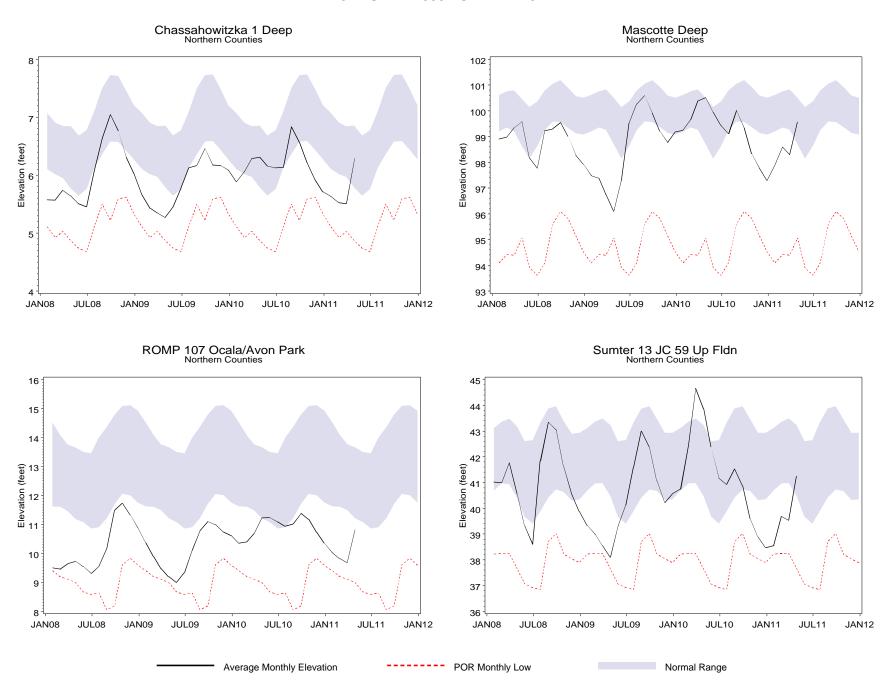
| Region | APR 2011 Mean Elevation | APR 2011 Relation to POR Median | APR 2011 Relation to 25th Percentile | APR 2011 Mean Percentile Rank | MAR 2011 Mean Percentile Rank | APR 2010 Mean Percentile Rank |
|-------------------|-------------------------------|---------------------------------------|---|--|--|--|
| Northern Counties | 36.98 | -0.86 | 0.80 | 36% | 23% | 52% |
| Central Counties | 55.38 | 1.33 | 4.30 | 62% | 42% | 71% |
| Southern Counties | 24.85 | -2.17 | 2.78 | 38% | 26% | 71% |

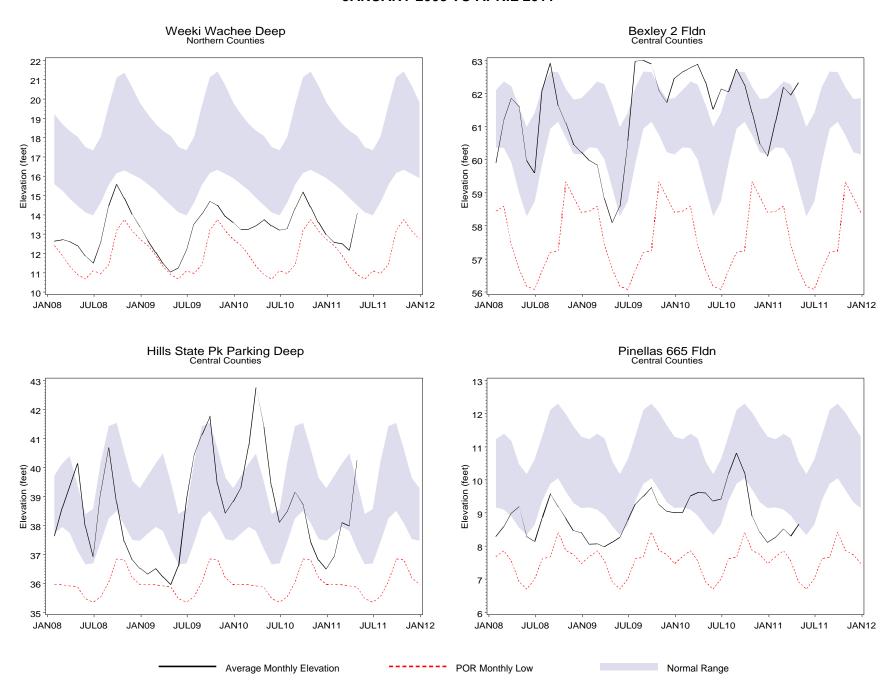
Regional Wells Summary:

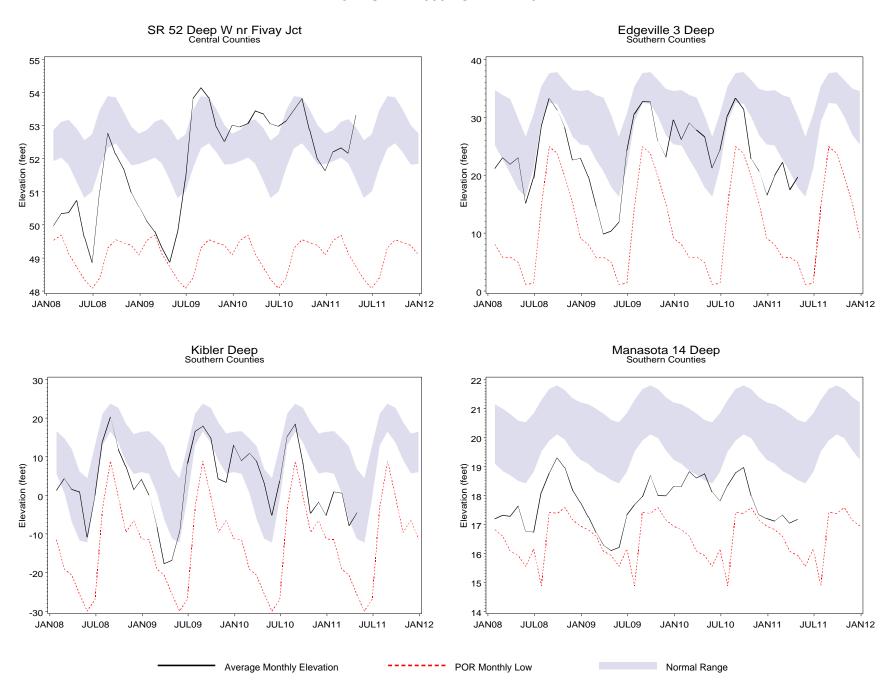
| NORTHERN COUNTIES | APR 2011 Elev | MAR 2011 Elev | APR 2010 Elev | Change From MAR 2011 | Change From APR 2010 | APR Historical Low Normal | APR Historical High Normal | Departure From Low Normal | APR 2011 Percentile Rank | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|----------------------------|---------------------|---------------------|---------------------|-------------------------------|-------------------------------|------------------------------------|-------------------------------------|------------------------------------|-----------------------------------|----------------------------|-----------------------|-----------------------------|------------------------|
| CE 14 Dunnellon Deep | 36.32 | 35.58 | 43.35 | 0.74 | -7.03 | 37.53 | 42.55 | -1.21 | 7% | 34.14 | JUN2001 | 60.24 | MAR1966 |
| Chassahowitzka 1 Deep | 6.20 | 5.72 | 6.22 | 0.48 | -0.02 | 5.75 | 6.83 | 0.45 | 51% | 4.68 | JUN2001 | 9.75 | SEP2004 |
| Inverness Dot Fldn | 26.44 | 25.80 | 28.64 | 0.64 | -2.20 | 28.34 | 31.15 | -1.90 | 12% | 21.63 | JUN2001 | 37.80 | OCT1982 |
| Mascotte Deep | 99.54 | 98.73 | 100.07 | 0.81 | -0.53 | 98.54 | 100.40 | 1.00 | 43% | 93.61 | JUN2000 | 102.66 | SEP1988 |
| ROMP 103 Suwannee/Ocala | 38.48 | 36.20 | 38.92 | 2.28 | -0.44 | 37.94 | 43.05 | 0.54 | 32% | 33.75 | MAY2009 | 51.03 | OCT2004 |
| ROMP 107 Ocala/Avon Park | 10.99 | 9.81 | 11.25 | 1.18 | -0.26 | 11.17 | 13.64 | -0.18 | 23% | 8.05 | AUG2007 | 19.78 | NOV1982 |
| ROMP 134 Ocala/Avon Park | 41.95 | 42.19 | 44.46 | -0.24 | -2.51 | 44.03 | 49.95 | -2.08 | 8% | 38.71 | JUL2002 | 57.35 | APR1998 |
| ROMP 89 Ocala | 91.75 | 92.09 | 92.06 | -0.34 | -0.31 | 88.71 | 91.42 | 3.04 | 83% | 82.41 | JUN2000 | 94.93 | DEC1997 |
| ROMP 97 Avon Park | 16.18 | 14.22 | 15.89 | 1.96 | 0.29 | 15.40 | 20.09 | 0.78 | 33% | 11.84 | MAY2009 | 26.24 | SEP2004 |
| ROMP Tr 124 Avon Park | 2.93 | 3.06 | 3.80 | -0.13 | -0.87 | 2.39 | 3.30 | 0.54 | 58% | 0.77 | SEP2004 | 4.96 | JUL2005 |
| ROMP Tr 21-2 Ocala/Avon Pk | 1.79 | 1.80 | 1.91 | -0.01 | -0.12 | 1.32 | 1.92 | 0.47 | 66% | -0.06 | DEC1990 | 4.56 | NOV1987 |
| Sumter 13 JC 59 Up Fldn | 40.89 | 39.46 | 43.56 | 1.43 | -2.67 | 40.31 | 43.11 | 0.58 | 40% | 36.84 | JUL2007 | 47.01 | JUN2003 |
| Webster City Fldn | 81.55 | 78.84 | 81.43 | 2.71 | 0.12 | 80.61 | 84.55 | 0.94 | 34% | 74.57 | JUN2000 | 88.77 | SEP2005 |
| Weeki Wachee Deep | 14.17 | 12.11 | 13.58 | 2.06 | 0.59 | 14.41 | 17.98 | -0.24 | 18% | 10.67 | MAY2009 | 23.91 | AUG1984 |

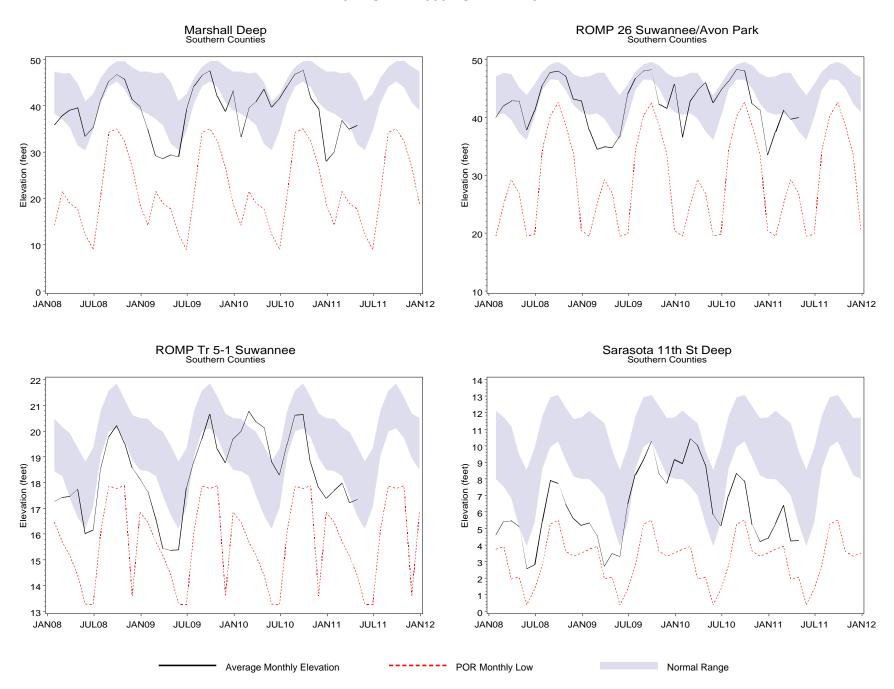
Regional Wells Summary (continued):

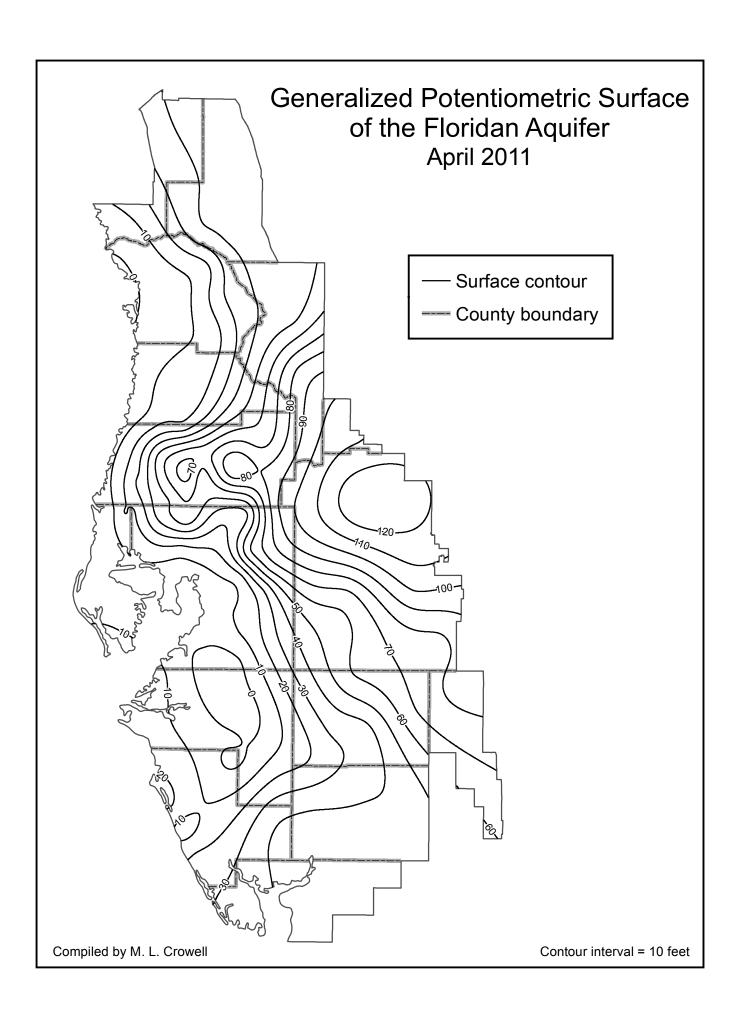
| CENTRAL COUNTIES | APR 2011 Elev | MAR 2011 Elev | APR 2010 Elev | Change From MAR 2011 | Change From APR 2010 | APR Historical Low Normal | APR Historical High Normal | Departure From Low Normal | APR 2011 Percentile Rank | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|---|--|---|---|--|--|--|--|---|--|--|---|---|--|
| Bexley 2 Fldn | 61.76 | 62.05 | 62.11 | -0.29 | -0.35 | 58.89 | 61.48 | 2.87 | 82% | 56.08 | JUN2000 | 64.07 | SEP1988 |
| Hills State Pk Parking Deep | 39.56 | 38.14 | 40.54 | 1.42 | -0.98 | 37.04 | 39.22 | 2.52 | 82% | 35.35 | JUN2000 | 125.08 | SEP1983 |
| Lk Alfred Deep nr Lake Alfre | 126.83 | 126.76 | 127.73 | 0.07 | -0.90 | 124.54 | 127.40 | 2.22 | 64% | 119.99 | APR1993 | 131.62 | OCT1960 |
| Lykes Pasco Fldn | 66.29 | 63.54 | 66.09 | 2.75 | 0.20 | 61.67 | 67.61 | 4.62 | 64% | 56.94 | JUN2000 | 75.78 | OCT2004 |
| Masaryktown Deep | 24.18 | 23.69 | 24.91 | 0.49 | -0.73 | 29.30 | 37.47 | -5.12 | 8% | 21.49 | MAY2009 | 53.70 | NOV1985 |
| Moon Lake Deep | 31.06 | 30.50 | 30.83 | 0.56 | 0.23 | 28.95 | 31.11 | 2.11 | 74% | 20.21 | AUG1990 | 105.98 | APR1983 |
| Pasco Well 13 nr Drexel Fldn | 72.45 | 71.57 | 72.45 | 0.88 | 0.00 | 71.29 | 73.39 | 1.16 | 52% | 64.22 | SEP1977 | 77.14 | JUL1960 |
| Pinellas 665 Fldn | 8.44 | 8.32 | 9.59 | 0.12 | -1.15 | 8.52 | 10.41 | -0.08 | 22% | 6.70 | MAY2006 | 14.79 | SEP1959 |
| ROMP 45 Avon Park | 66.37 | 64.62 | 70.62 | 1.75 | -4.25 | 49.58 | 66.19 | 16.79 | 76% | 31.75 | MAY1981 | 84.42 | OCT2004 |
| ROMP 50 Avon Park | -1.55 | -1.33 | 5.57 | -0.22 | -7.12 | -5.67 | 3.15 | 4.34 | 46% | -32.77 | FEB2004 | 14.95 | AUG1982 |
| ROMP 59 Swnn/AvPk | 67.36 | 65.63 | 71.72 | 1.73 | -4.36 | 49.81 | 66.78 | 17.55 | 78% | 33.33 | MAY1981 | 85.92 | OCT2004 |
| ROMP 66 Tampa | 17.41 | 16.86 | 18.86 | 0.55 | -1.45 | 15.04 | 17.61 | 2.37 | 72% | 13.02 | JUN2000 | 23.95 | DEC1997 |
| ROMP 87 Avon Park | 103.07 | 102.35 | 103.78 | 0.72 | -0.71 | 99.32 | 102.76 | 3.75 | 81% | 94.88 | JUN2000 | 106.30 | FEB1998 |
| ROMP 93 Swnn/AvPk | 69.71 | 67.37 | 68.10 | 2.34 | 1.61 | 65.61 | 72.46 | 4.10 | 48% | 59.02 | JUN2001 | 76.60 | SEP1982 |
| SR 52 Deep W nr Fivay Jct | 52.94 | 52.60 | 52.91 | 0.34 | 0.03 | 51.22 | 52.86 | 1.72 | 79% | 48.08 | JUN2000 | 56.75 | SEP1988 |
| SR 577 Deep | 87.54 | 81.80 | 87.62 | 5.74 | -0.08 | 83.75 | 91.56 | 3.79 | 48% | 72.76 | JUN2000 | 98.51 | MAR1998 |
| Sanlon Ranch Fldn | 91.29 | 90.43 | 94.64 | 0.86 | -3.35 | 81.25 | 92.02 | 10.04 | 74% | 66.38 | MAY1975 | 105.27 | OCT2004 |
| Tarpon Rd Deep | 10.13 | 10.01 | 10.12 | 0.12 | 0.01 | 9.24 | 10.30 | 0.89 | 68% | 6.95 | MAY2007 | 13.06 | SEP1971 |
| | | | | | | | | | | | | | |
| SOUTHERN COUNTIES | APR 2011 Elev | MAR 2011 Elev | APR 2010 Elev | Change From MAR 2011 | Change From APR 2010 | APR Historical Low Normal | APR Historical High Normal | Departure From Low Normal | e APR 2011 Percentile Rank | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
| | 2011 Elev | 2011 Elev | 2010 Elev | From MAR 2011 | From APR 2010 | Historical Low Normal | Historical High Normal | From Low Normal | 2011 Percentile Rank | Record Low | Low Date | Record High | High Date |
| Big Slough Deep | 2011 Elev 31.45 | 2011 Elev 31.20 | 2010 Elev 33.72 | From MAR 2011 | From APR 2010 -2.27 | Historical Low Normal | Historical High Normal 32.96 | From Low Normal | 2011 Percentile Rank 43% | Record Low 26.82 | Low Date MAY2006 | Record High 36.59 | High Date JAN1983 |
| Big Slough Deep Edgeville 3 Deep | 2011 Elev 31.45 17.72 | 2011 Elev 31.20 16.34 | 2010 Elev 33.72 25.72 | From MAR 2011 0.25 1.38 | From APR 2010 -2.27 -8.00 | Historical Low Normal 30.55 17.26 | Historical High Normal 32.96 29.27 | From Low Normal 0.90 0.46 | 2011 Percentile Rank 43% 27% | 26.82 1.13 | Low Date MAY2006 MAY2000 | Record High 36.59 46.40 | High Date JAN1983 OCT1965 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep | 2011 Elev 31.45 17.72 4.67 | 2011 Elev 31.20 16.34 4.82 | 2010 Elev 33.72 25.72 7.73 | From MAR 2011 0.25 1.38 -0.15 | From APR 2010 -2.27 -8.00 -3.06 | Historical Low Normal 30.55 17.26 1.93 | Historical High Normal 32.96 29.27 4.47 | From Low Normal 0.90 0.46 2.74 | 2011 Percentile Rank 43% 27% 78% | 26.82 1.13 -0.97 | Low Date MAY2006 MAY2000 FEB2001 | Record High 36.59 46.40 11.37 | JAN1983 OCT1965 SEP1974 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 | 2011 Elev 31.45 17.72 4.67 -1.01 | 2011 Elev 31.20 16.34 4.82 -0.82 | 2010 Elev 33.72 25.72 7.73 8.95 | From MAR 2011 0.25 1.38 -0.15 -0.19 | -2.27 -8.00 -3.06 -9.96 | Historical Low Normal 30.55 17.26 1.93 -0.24 | Historical High Normal 32.96 29.27 4.47 12.29 | 7.50 | 2011 Percentile Rank 43% 27% 78% 24% | 26.82 1.13 -0.97 -18.63 | MAY2006 MAY2000 FEB2001 MAY1976 | Record High 36.59 46.40 11.37 26.07 | High Date JAN1983 OCT1965 SEP1974 MAR1978 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep | 2011 Elev 31.45 17.72 4.67 -1.01 -10.56 | 31.20 16.34 4.82 -0.82 -9.43 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 | 9.25 1.38 -0.15 -0.19 -1.13 | -2.27 -8.00 -3.06 -9.96 -11.09 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 | 0.90 0.46 2.74 -0.77 1.62 | 2011 Percentile Rank 43% 27% 78% 24% 29% | 26.82 1.13 -0.97 -18.63 -29.95 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 | Record High 36.59 46.40 11.37 26.07 29.30 | High Date JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep | 31.45 17.72 4.67 -1.01 -10.56 17.03 | 31.20 16.34 4.82 -0.82 -9.43 16.99 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 18.71 | 0.25 1.38 -0.15 -0.19 -1.13 0.04 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 18.48 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 | 0.90 0.46 2.74 -0.77 1.62 -1.45 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% | 26.82 1.13 -0.97 -18.63 -29.95 14.88 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 | 36.59 46.40 11.37 26.07 29.30 22.70 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep | 31.45 17.72 4.67 -1.01 -10.56 17.03 34.78 | 31.20 16.34 4.82 -0.82 -9.43 16.99 33.67 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 18.71 43.19 | 9.25 1.38 -0.15 -0.19 -1.13 0.04 1.11 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 -8.41 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 44.20 | 0.90 0.46 2.74 -0.77 1.62 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% 39% | 26.82 1.13 -0.97 -18.63 -29.95 14.88 8.96 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 JUN2000 | Record High 36.59 46.40 11.37 26.07 29.30 22.70 55.24 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 MAR1964 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep Marshall Deep ROMP 16 Ocala | 31.45 17.72 4.67 -1.01 -10.56 17.03 | 31.20 16.34 4.82 -0.82 -9.43 16.99 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 18.71 | 0.25 1.38 -0.15 -0.19 -1.13 0.04 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 18.48 31.00 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 | 0.90 0.46 2.74 -0.77 1.62 -1.45 3.78 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% | 26.82 1.13 -0.97 -18.63 -29.95 14.88 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 | 36.59 46.40 11.37 26.07 29.30 22.70 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep Marshall Deep | 31.45 17.72 4.67 -1.01 -10.56 17.03 34.78 43.61 | 31.20 16.34 4.82 -0.82 -9.43 16.99 33.67 44.56 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 18.71 43.19 47.94 | 9.25 1.38 -0.15 -0.19 -1.13 0.04 1.11 -0.95 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 -8.41 -4.33 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 18.48 31.00 43.36 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 44.20 47.89 | 0.90 0.46 2.74 -0.77 1.62 -1.45 3.78 0.25 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% 39% 27% | 26.82 1.13 -0.97 -18.63 -29.95 14.88 8.96 28.94 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 JUN2000 JAN2001 | Record High 36.59 46.40 11.37 26.07 29.30 22.70 55.24 51.21 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 MAR1964 SEP1995 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep Marshall Deep ROMP 16 Ocala ROMP 26 Swnn/AvPk | 31.45 17.72 4.67 -1.01 -10.56 17.03 34.78 43.61 38.67 | 31.20 16.34 4.82 -0.82 -9.43 16.99 33.67 44.56 39.15 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 18.71 43.19 47.94 45.72 | 9.25 1.38 -0.15 -0.19 -1.13 0.04 1.11 -0.95 -0.48 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 -8.41 -4.33 -7.05 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 18.48 31.00 43.36 37.00 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 44.20 47.89 44.92 | 0.90 0.46 2.74 -0.77 1.62 -1.45 3.78 0.25 1.67 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% 39% 27% 36% | 26.82 1.13 -0.97 -18.63 -29.95 14.88 8.96 28.94 19.47 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 JUN2000 JAN2001 MAY2000 | Record High 36.59 46.40 11.37 26.07 29.30 22.70 55.24 51.21 53.18 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep Marshall Deep ROMP 16 Ocala ROMP 26 Swnn/AvPk | 31.45 17.72 4.67 -1.01 -10.56 17.03 34.78 43.61 38.67 66.45 | 31.20 16.34 4.82 -0.82 -9.43 16.99 33.67 44.56 39.15 66.74 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 18.71 43.19 47.94 45.72 68.02 | 9.25 1.38 -0.15 -0.19 -1.13 0.04 1.11 -0.95 -0.48 -0.29 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 -8.41 -4.33 -7.05 -1.57 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 18.48 31.00 43.36 37.00 65.00 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 44.20 47.89 44.92 67.96 | 0.90 0.46 2.74 -0.77 1.62 -1.45 3.78 0.25 1.67 1.45 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% 39% 27% 36% 49% | 26.82 1.13 -0.97 -18.63 -29.95 14.88 8.96 28.94 19.47 57.24 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 JUN2000 JAN2001 MAY2000 JAN2010 | Record High 36.59 46.40 11.37 26.07 29.30 22.70 55.24 51.21 53.18 74.68 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 |
| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep Marshall Deep ROMP 16 Ocala ROMP 26 Swnn/AvPk ROMP 28X Swnn/AvPk | 31.45 17.72 4.67 -1.01 -10.56 17.03 34.78 43.61 38.67 66.45 39.15 | 31.20 16.34 4.82 -0.82 -9.43 16.99 33.67 44.56 39.15 66.74 37.68 | 33.72 25.72 7.73 8.95 0.53 18.71 43.19 47.94 45.72 68.02 46.85 | From MAR 2011 0.25 1.38 -0.15 -0.19 -1.13 0.04 1.11 -0.95 -0.48 -0.29 1.47 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 -8.41 -4.33 -7.05 -1.57 -7.70 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 18.48 31.00 43.36 37.00 65.00 28.43 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 44.20 47.89 44.92 67.96 46.39 41.87 25.25 | 0.90 0.46 2.74 -0.77 1.62 -1.45 3.78 0.25 1.67 1.45 10.72 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% 39% 27% 36% 49% 56% | 26.82 1.13 -0.97 -18.63 -29.95 14.88 8.96 28.94 19.47 57.24 -0.20 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 JUN2000 JAN2001 MAY2000 JAN2010 JUN2000 | Record High 36.59 46.40 11.37 26.07 29.30 22.70 55.24 51.21 53.18 74.68 60.52 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998 OCT1987 |
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| Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep Marshall Deep ROMP 16 Ocala ROMP 26 Swnn/AvPk ROMP 28X Swnn/AvPk ROMP 30 Swnn/AvPk ROMP 31 Swnn/AvPk ROMP 32 L Ocala/Avon Park ROMP 43XX Avon Park ROMP Tr 5-1 Suwannee ROMP Tr 7-1 Tampa Sarasota 11th St Deep | 31.45 17.72 4.67 -1.01 -10.56 17.03 34.78 43.61 38.67 66.45 39.15 34.03 14.39 83.45 16.97 15.93 3.73 | 31.20 16.34 4.82 -0.82 -9.43 16.99 33.67 44.56 39.15 66.74 37.68 32.85 13.40 84.67 17.08 15.44 3.88 | 2010 Elev 33.72 25.72 7.73 8.95 0.53 18.71 43.19 47.94 45.72 68.02 46.85 41.37 21.23 85.76 20.06 19.04 8.96 | From MAR 2011 0.25 1.38 -0.15 -0.19 -1.13 0.04 1.11 -0.95 -0.48 -0.29 1.47 1.18 0.99 -1.22 -0.11 0.49 -0.15 | -2.27 -8.00 -3.06 -9.96 -11.09 -1.68 -8.41 -4.33 -7.05 -1.57 -7.70 -7.34 -6.84 -2.31 -3.09 -3.11 -5.23 | Historical Low Normal 30.55 17.26 1.93 -0.24 -12.18 18.48 31.00 43.36 37.00 65.00 28.43 22.93 7.55 81.11 16.56 13.44 4.88 | Historical High Normal 32.96 29.27 4.47 12.29 5.62 20.56 44.20 47.89 44.92 67.96 46.39 41.87 25.25 86.51 19.27 17.25 9.28 | 0.90 0.46 2.74 -0.77 1.62 -1.45 3.78 0.25 1.67 1.45 10.72 11.10 6.84 2.34 0.41 2.49 -1.15 | 2011 Percentile Rank 43% 27% 78% 24% 29% 5% 39% 27% 36% 49% 56% 55% 44% 47% 29% 60% 19% | Record Low 26.82 1.13 -0.97 -18.63 -29.95 14.88 8.96 28.94 19.47 57.24 -0.20 -8.20 -17.54 70.93 13.26 10.08 0.39 | MAY2006 MAY2000 FEB2001 MAY1976 MAY2000 JUL2004 JUN2000 JAN2001 MAY2000 JUN2000 JUN2000 JUN2000 JUN2000 JUN2000 JUN2000 JUN2000 JUN2000 MAY2000 MAY2000 | Record High 36.59 46.40 11.37 26.07 29.30 22.70 55.24 51.21 53.18 74.68 60.52 57.92 51.65 94.60 23.00 36.45 19.31 | JAN1983 OCT1965 SEP1974 MAR1978 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998 OCT1987 MAR1998 SEP1983 SEP1983 SEP1979 |
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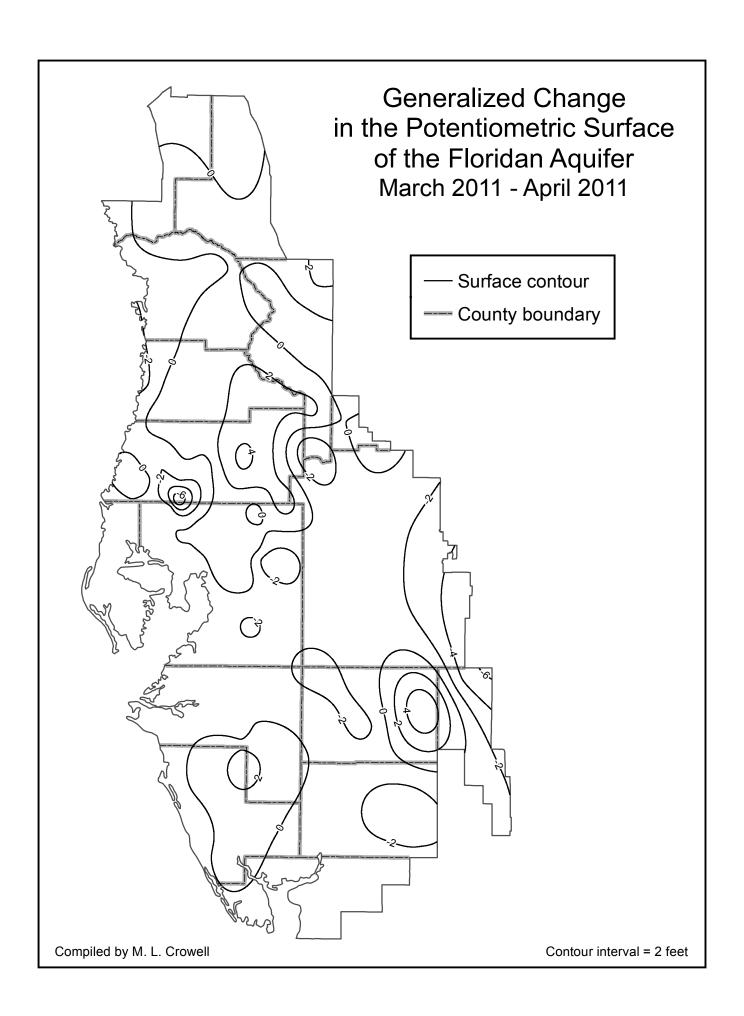


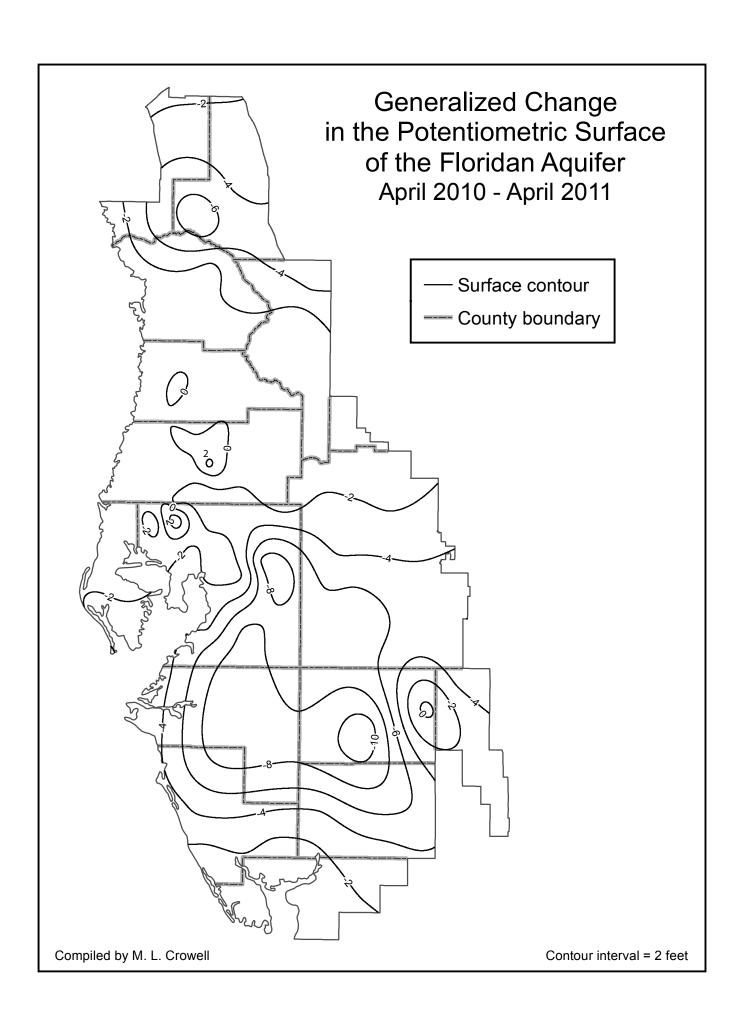












Public Supply Wellfields

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 April, average water levels increased in nine of the twelve intermediate and Floridan wells and all nine surficial wells. Average water levels measured in the intermediate and Floridan wells increased 1.70 feet, while levels measured in surficial wells increased 2.21 feet.

In April, average water levels in seven of the twelve intermediate and Floridan wells were above those measured in April 2010, while eight of the nine surficial wells were above last year's levels. Water levels measured in the intermediate and Floridan wells averaged 0.24 foot above last year's levels, while surficial water levels averaged 1.11 foot above April 2010 levels.

For April, average water levels in all 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 10.17 feet above the base of the normal range, while levels in the surficial wells averaged 6.41 feet above the base of the normal range.

SUMMARY OF GROUNDWATER LEVELS IN REPRESENTATIVE WELLFIELD WELLS, APRIL 2011

| INT/FLORIDAN WELLS | APR 2011 Elev | MAR 2011 Elev | APR 2010 Elev | Change From MAR 2011 | Change From APR 2010 | APR Historical Low Normal | APR Historical High Normal | Departure From Low Normal | Period of Record Low | Record Low Date | Period of Record High | Record High Date |
|--|--|--|---|--|---|--|--|---|--|--|--|--|
| Cosme-Odessa Cosme No. 3 Cross Bar WRW Cypress Crk TMR-1 Deep Cypress Crk TMR-3 Deep Eldridge-Wilde 11 Deep Eldridge-Wilde 2S Morris Bridge 3A Deep Section 21 Hills 13 Deep South Pasco 42 South Pasco SR 54 Deep Starkey Regional Verna 08 | 27.84 40.25 63.25 61.07 18.45 20.88 31.68 46.39 54.35 55.79 35.90 -1.96 | 26.85 39.14 56.66 54.50 19.66 20.51 28.77 44.98 55.23 56.36 34.37 -3.53 | 29.64 40.51 60.48 59.53 19.70 20.48 32.83 41.50 50.67 52.41 35.69 7.49 | 0.99 1.11 6.58 6.57 -1.21 0.37 2.91 1.41 -0.89 -0.57 1.53 1.57 | -1.81 -0.26 2.76 1.54 -1.25 0.40 -1.16 4.89 3.67 3.38 0.21 -9.45 | 20.89 39.43 47.46 47.59 7.12 6.19 24.92 33.24 38.52 43.14 29.47 -6.16 | 25.52 52.54 61.18 57.71 14.13 15.51 31.62 44.06 46.11 51.61 33.63 10.69 | 6.95 0.82 15.79 13.48 11.33 14.69 6.76 13.15 15.83 12.65 6.43 4.20 | 10.94 33.88 36.93 34.22 0.31 -1.16 17.91 21.88 27.98 33.49 24.97 -24.32 | MAY2000 DEC1993 FEB2001 FEB2001 SEP1990 JUN2000 MAY2009 JUN2002 MAY2002 MAY2002 JUN2000 MAY1989 | 88.88 61.65 70.87 68.74 25.54 25.24 36.99 52.08 56.92 58.73 37.55 43.27 | OCT1986 AUG1984 JUN1976 JUL1976 SEP2010 OCT1982 DEC1997 JUL1944 APR2011 FEB1980 SEP2004 APR1964 |
| SURFICIAL WELLS | | | | | | | | | | | | |
| Cosme-Odessa IC-6 Cross Bar SERW Cypress Crk TMR-1 Shallow Cypress Crk TMR-3 Shallow Eldridge-Wilde 11 Shallow Morris Bridge 3A Shallow Section 21 Hills 13 Shallow South Pasco SR 54 Shallow Starkey 707 | 38.20 61.13 63.58 57.76 27.22 34.33 52.00 58.73 31.41 | 38.11 58.80 56.86 54.91 25.44 31.87 50.37 58.46 29.66 | 37.85 60.13 60.58 55.63 25.24 34.27 50.92 59.23 30.47 | 0.09 2.33 6.71 2.85 1.78 2.46 1.63 0.27 1.75 | 0.35 0.99 3.00 2.13 1.98 0.06 1.08 -0.50 0.94 | 34.84 57.95 54.25 54.15 16.10 28.13 39.22 56.28 25.76 | 37.31 67.44 62.77 60.92 21.37 34.08 48.46 58.32 29.14 | 3.36 3.17 9.33 3.61 11.12 6.20 12.78 2.45 5.65 | 31.91 53.09 40.07 53.55 10.28 24.02 31.27 54.43 22.70 | JUL1973 JUL1994 JUN2001 MAY1997 MAY1991 MAY2009 SEP1989 OCT1980 JUN2000 | 42.72 72.53 69.53 64.80 29.34 39.20 53.78 60.49 33.85 | SEP1988 JUL1984 JUL1976 JUN2003 SEP2004 DEC1997 SEP1979 SEP1998 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.

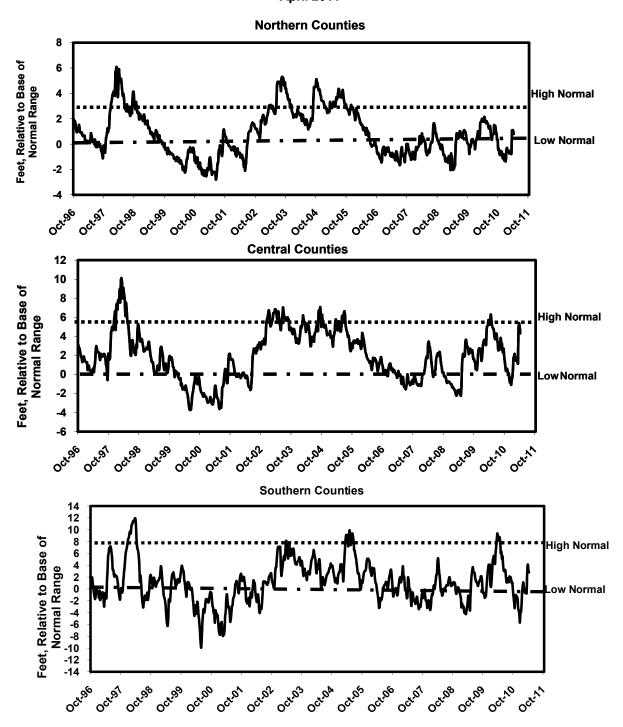
To determine the ARI value for a geographic area, each well is compared to its respective low-normal value weekly, and the difference is calculated. The weekly differences are used to determine the regional ARI value and the resulting ARI value represents how far water levels in the aquifer have to rise 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 |
|-------------|----------------------|---------------------|----------------------|
| 04/04/2011 | 1.07 | 4.91 | 2.63 |
| 04/11/2011 | 1.10 | 5.38 | 4.11 |
| 04/18/2011 | 1.08 | 4.98 | 3.34 |
| 04/25/2011 | 0.80 | 4.30 | 2.78 |

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

AQUIFER RESOURCE INDEX* April 2011



^{*}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 April, five of the seven reservoirs monitored for this report recorded average water-level increases, one a decrease and one remained unchanged, compared to last month. The Evers, Hillsborough River, Lake Manatee, Bill Young and Peace River No. 2 reservoirs posted average water level increases of 0.31 foot, 0.67 foot, 0.66 foot, 9.92 feet and 2.10 feet, respectively. The average monthly water-level for Peace River No. 1 reservoir remained unchanged, while the Shell Creek reservoir decreased by 0.03 foot.

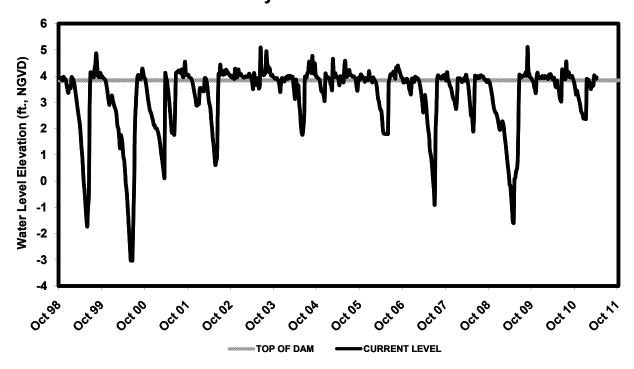
SUMMARY OF WATER LEVELS IN WATER SUPPLY RESERVOIRS (ELEVATION IN FEET, NGVD)

| | | | | Change | Change |
|--------------------------|--------|--------|--------|------------|------------|
| | 2011 | 2011 | 2010 | from Prior | from Prior |
| RESERVOIR | March | April | March | Month | Year |
| | | | | | |
| Evers | | | | | |
| City of Bradenton | 3.64 | 3.95 | 3.94 | 0.31 | 0.01 |
| Hillsborough | | | | | |
| City of Tampa | 21.9 | 22.57 | 22.72 | 0.67 | -0.15 |
| Lake Manatee | | | | | |
| Manatee County | 37.95 | 38.61 | 40.01 | 0.66 | -1.40 |
| C.W. Bill Young Regional | | | | | |
| Tampa Bay Water | 108.61 | 118.53 | 134.35 | 9.92 | -15.82 |
| Peace River | | | | | |
| PRMRWSA Reservoir #1 | 24.4 | 24.4 | 25.2 | 0.00 | -0.80 |
| PRMRWSA Reservoir #2 | 47.8 | 49.9 | 61.5 | 2.10 | -11.60 |
| Shell Creek | | | | | |
| City of Punta Gorda | 5.24 | 5.21 | 5.11 | -0.03 | 0.10 |

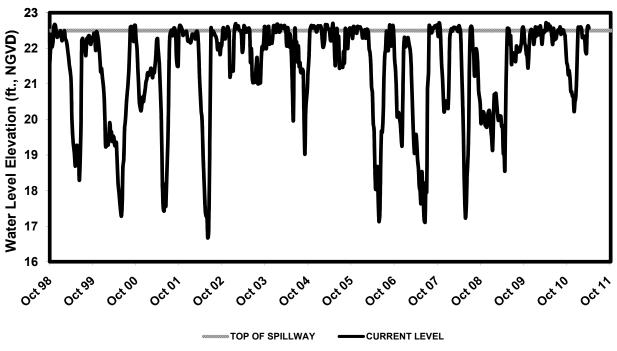
NGVD - National Geodetic Vertical Datum Reported data are provisional and subject to revision.

Compiled by Pam Green

EVERS RESERVOIRCity of Bradenton

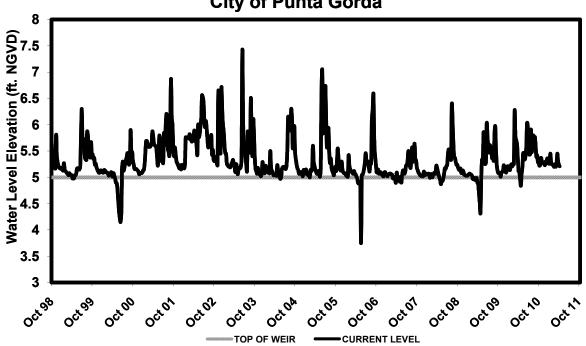


HILLSBOROUGH RESERVOIR City of Tampa

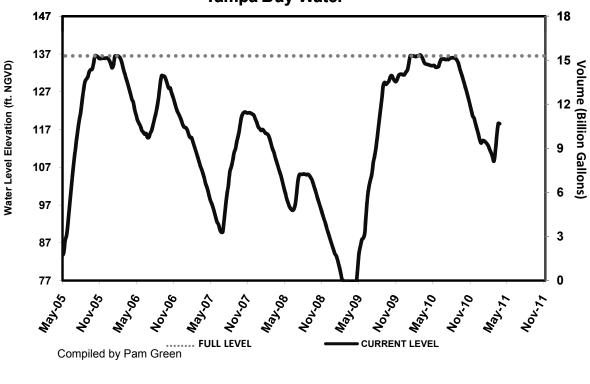


Compiled by Pam Green

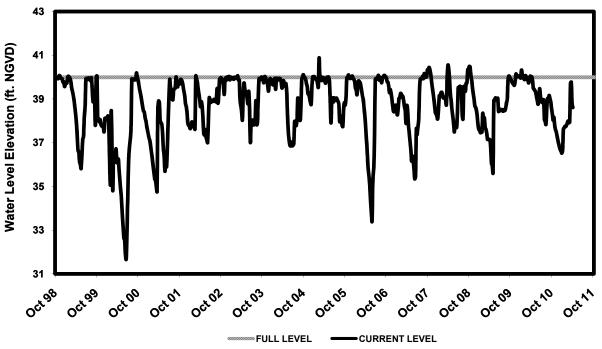
SHELL CREEK RESERVOIR City of Punta Gorda



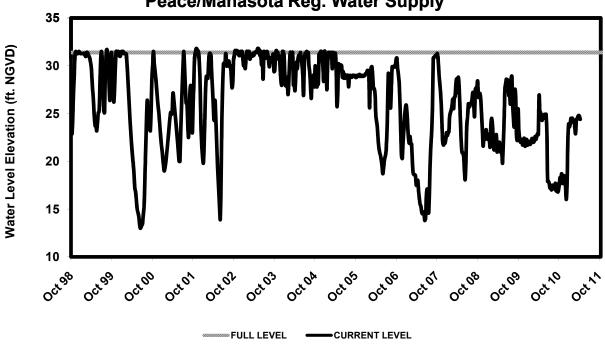
C.W. BILL YOUNG REGIONAL RESERVOIR Tampa Bay Water



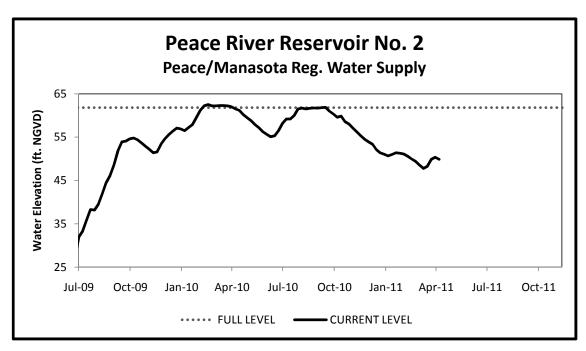
LAKE MANATEE RESERVOIR Manatee County



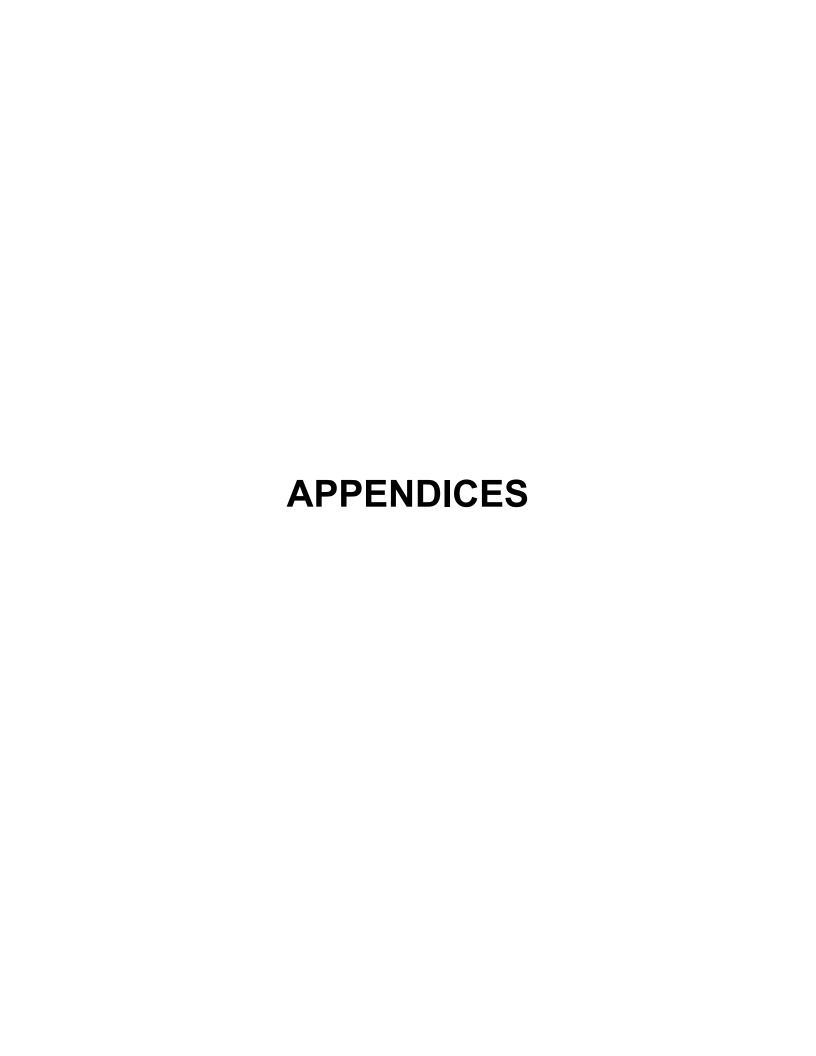
PEACE RIVER RESERVOIR No. 1 Peace/Manasota Reg. Water Supply



Compiled by Pam Green



Compiled by Pam Green



Rainfall percentiles by interval and region, inches.

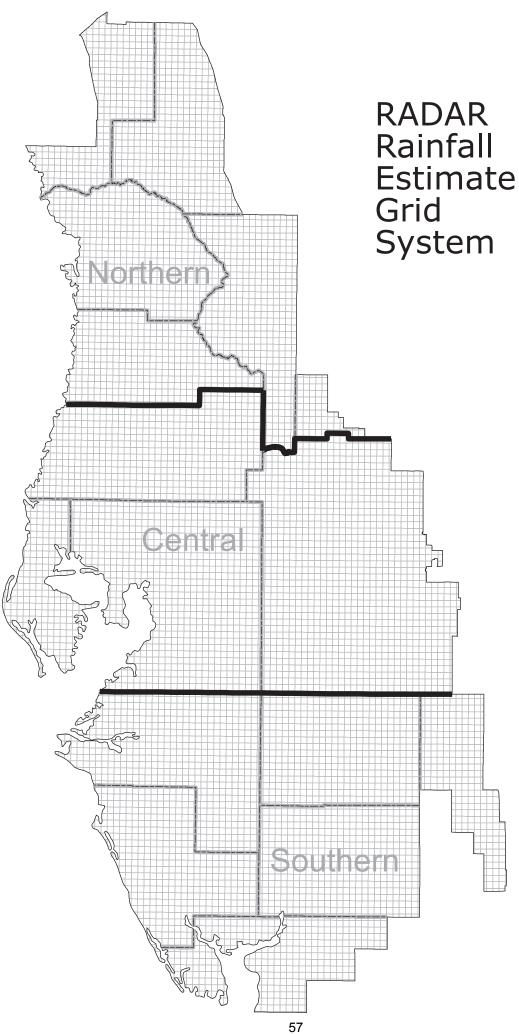
| Rainfall percentile | es by interval and | | | | | 1 |
|---------------------|--------------------|---|---|---|---|---|
| Rainfall Interval | Region | 10 TH Percentile (P10) | 25 th Percentile (P25) | 50 th Percentile (P50) | 75 th Percentile (P75) | 90 th Percentile (P90) |
| Annual total | Northern | 43.19 | 48.35 | 54.01 | 58.86 | 63.46 |
| Annual total | Central | 41.45 | 46.10 | 52.16 | 57.28 | 63.82 |
| Annual total | Southern | 42.05 | 46.25 | 52.19 | 57.82 | 63.43 |
| Annual total | District | 43.12 | 47.22 | 52.99 | 57.46 | 62.83 |
| Dry season total | Northern | 15.27 | 18.42 | 23.79 | 28.72 | 32.10 |
| Dry season total | Central | 13.32 | 16.48 | 21.59 | 26.86 | 30.83 |
| Dry season total | Southern | 12.35 | 15.68 | 21.24 | 26.23 | 30.01 |
| Dry season total | District | 13.71 | 16.79 | 22.02 | 27.22 | 29.70 |
| Wet season total | Northern | 22.79 | 25.44 | 29.45 | 33.43 | 38.16 |
| Wet season total | Central | 23.22 | 25.79 | 29.71 | 34.86 | 39.22 |
| Wet season total | Southern | 24.37 | 27.37 | 30.58 | 35.88 | 41.68 |
| Wet season total | District | 23.92 | 27.16 | 29.97 | 34.71 | 38.93 |
| January total | Northern | 0.73 | 1.50 | 2.45 | 4.00 | 5.30 |
| January total | Central | 0.72 | 1.21 | 2.23 | 3.72 | 4.60 |
| January total | Southern | 0.39 | 0.93 | 1.88 | 3.31 | 4.93 |
| January total | District | 0.65 | 1.17 | 2.10 | 3.55 | 4.90 |
| February total | Northern | 0.82 | 1.42 | 2.82 | 4.08 | 5.76 |
| February total | Central | 0.60 | 1.12 | 2.38 | 4.17 | 5.50 |
| February total | Southern | 0.36 | 1.26 | 2.21 | 3.63 | 4.93 |
| February total | District | 0.73 | 1.32 | 2.38 | 3.94 | 5.12 |
| March total | Northern | 1.00 | 2.06 | 3.15 | 5.43 | 7.21 |
| March total | Central | 0.97 | 1.66 | 2.96 | 4.95 | 6.44 |
| March total | Southern | 0.81 | 1.28 | 2.56 | 4.29 | 6.68 |
| March total | District | 1.09 | 1.64 | 3.04 | 4.86 | 6.92 |
| April total | Northern | 0.65 | 1.33 | 2.38 | 3.95 | 5.52 |
| April total | Central | 0.51 | 0.96 | 1.87 | 3.44 | 5.59 |
| April total | Southern | 0.48 | 1.19 | 2.04 | 3.75 | 4.66 |
| April total | District | 0.65 | 1.20 | 2.24 | 3.72 | 5.12 |
| May total | Northern | 1.18 | 1.95 | 3.21 | 4.67 | 6.92 |
| May total | Central | 0.87 | 1.64 | 2.73 | 4.58 | 5.75 |
| May total | Southern | 1.17 | 1.91 | 3.36 | 5.22 | 6.75 |
| May total | District | 1.23 | 2.04 | 3.24 | 4.87 | 6.29 |
| June total | Northern | 4.60 | 5.47 | 7.27 | 8.63 | 10.16 |
| June total | Central | 3.65 | 4.79 | 6.46 | 8.27 | 9.48 |
| June total | Southern | 4.22 | 5.63 | 7.44 | 9.06 | 12.06 |
| June total | District | 4.55 | 5.46 | 7.24 | 8.60 | 10.99 |
| July total | Northern | 5.36 | 6.75 | 8.29 | 9.16 | 11.52 |
| July total | Central | 4.89 | 5.98 | 8.35 | 10.05 | 11.44 |
| July total | Southern | 5.68 | 6.94 | 8.11 | 9.50 | 10.99 |
| July total | District | 5.60 | 6.83 | 8.19 | 9.57 | 10.58 |
| August total | Northern | 5.44 | 6.30 | 7.31 | 9.72 | 11.33 |
| August total | Central | 5.52 | 6.55 | 7.90 | 9.62 | 12.03 |
| August total | Southern | 5.55 | 6.22 | 7.90 7.70 | 8.97 | 10.49 |
| August total | District | 5.65 | 6.52 | 7.70 | 9.37 | 10.43 |
| September total | Northern | 2.79 | 4.18 | 5.84 | 8.04 | 11.35 |
| September total | Central | 3.19 | 5.11 | 6.46 | 8.50 | 11.69 |
| September total | Southern | 4.30 | 5.46 | 6.94 | 9.33 | 11.85 |
| September total | District | 3.85 | 5.21 | 6.53 | 8.62 | 11.65 |
| October total | Northern | 0.63 | 1.27 | 2.46 | 4.40 | 6.15 |
| October total | Central | 0.63 | 1.39 | 2.46 | 4.40 | 6.13 |
| October total | Southern | 0.09 | 1.78 | 2.73 | 4.03 | 6.04 |
| October total | District | 1.06 | 1.76 | 2.73 | 4.27 | 5.79 |

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

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

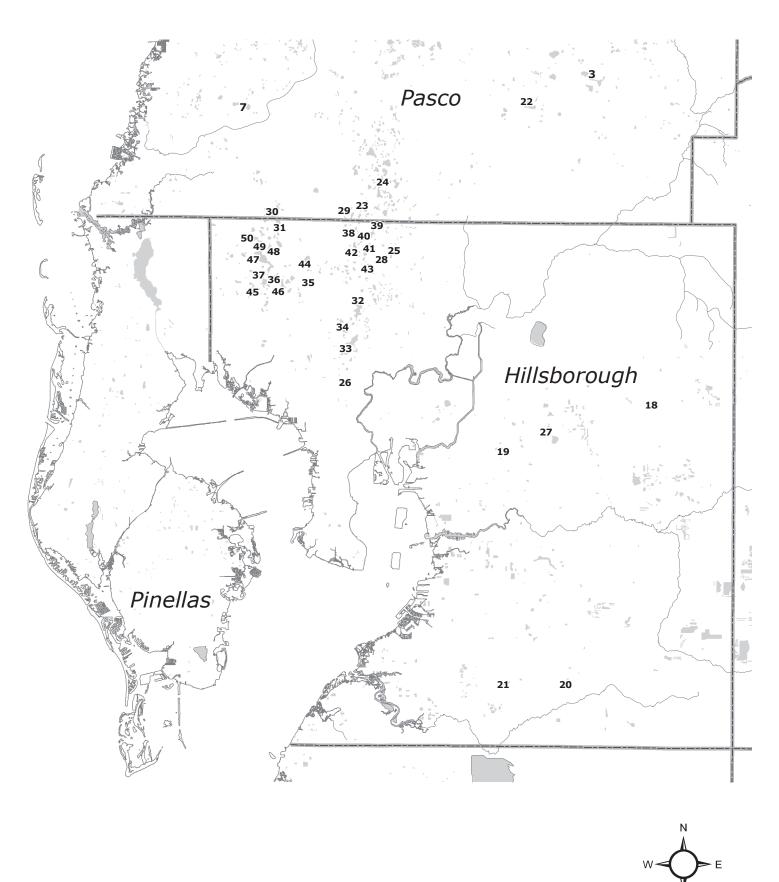




Selected Lake Monitoring Stations Northern Region

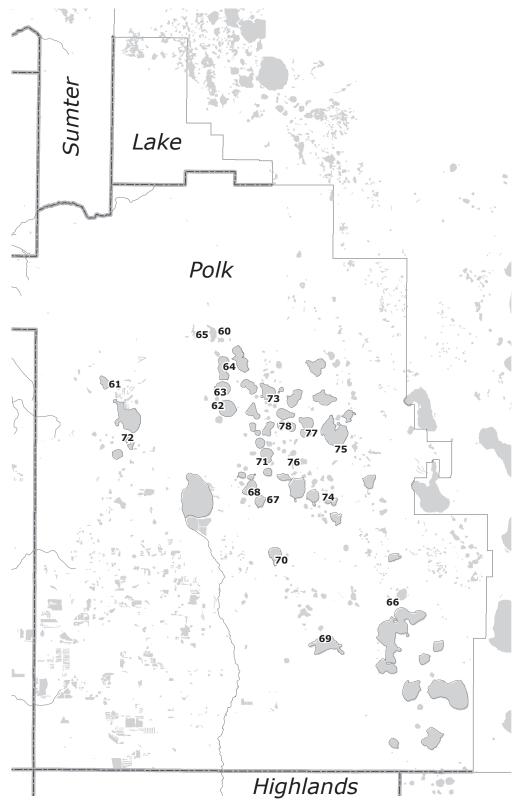


Selected Lake Monitoring Stations Tampa Bay Region



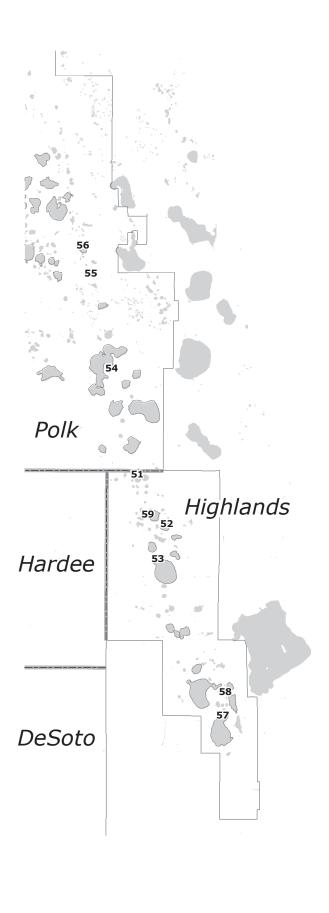
03/2009

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> | Site Name |
|---------------|-----------------------------|
| 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

| Map ID | Site Name | Map ID | Site Name |
|--------|----------------------------|--------|------------------|
| 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 | | |

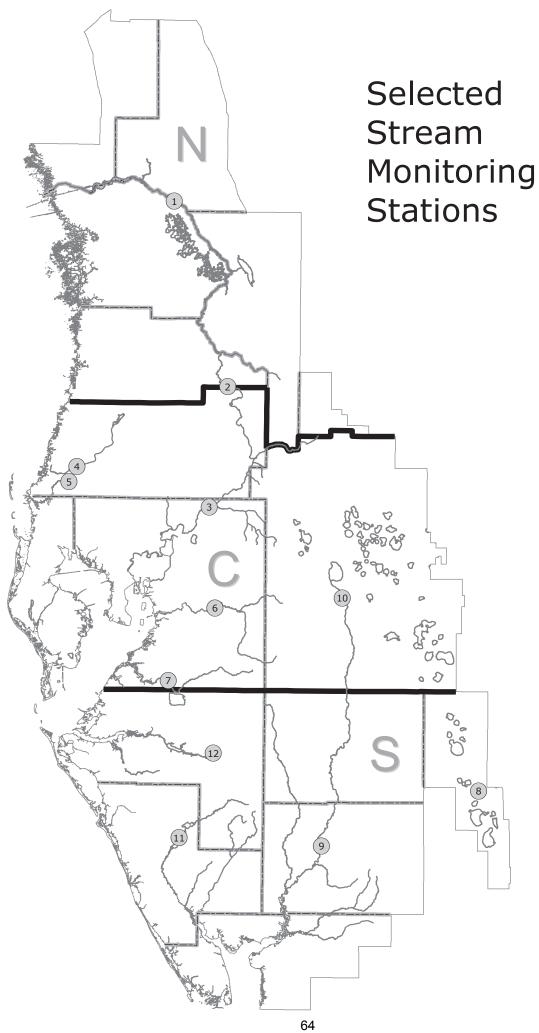
Selected Lake Monitoring Stations

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

| Map ID | Site Name |
|--------|-----------------|
| 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

| Map ID | <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: South Branch and Hollin Creek 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: 27.11 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: 140 aguara miles

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):

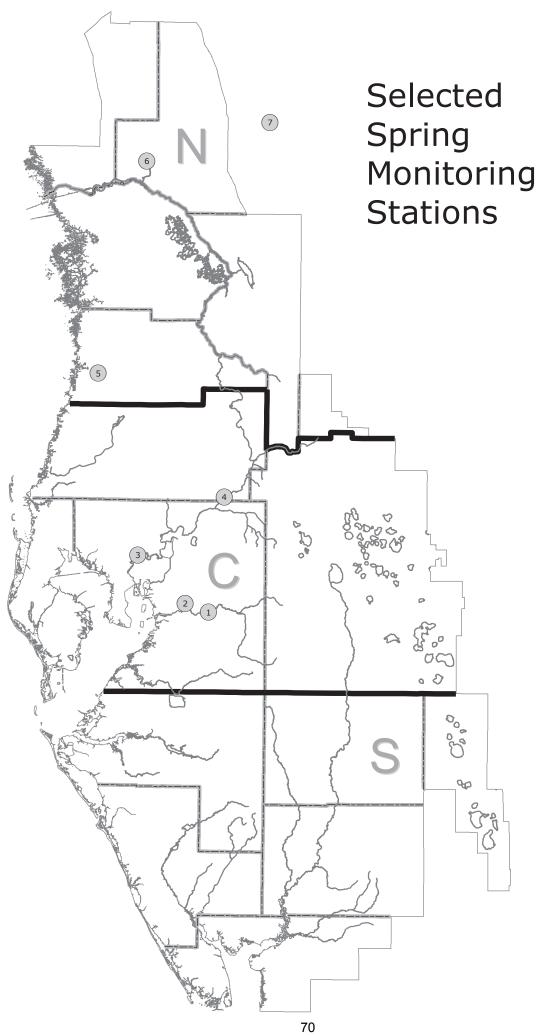
County: Polk Period-of-record: 1939

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

| Map ID | <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

1st Magnitude:

Discharge measurement location: 5 mi downstream from head of springs Discharge contributes to: Rainbow River, Withlacoochee River

Public Access: Yes Period-of-record: 1965

Non-recording gage 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:

4 to 5 mi downstream from head of springs Discharge measurement location: 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**

1st Magnitude:

1 mi downstream from head of springs Discharge measurement location:

Discharge contributes to: Weeki Wachee River

Public Access: Yes Period-of-record: 1993

Gage: Water-stage

229 cfs in 03/1998 Maximum daily mean: Minimum daily mean: 101 cfs in 06/1994

CRYSTAL SPRINGS (Central Region)

County: Pasco

Basin: Hillsborough River

Magnitude:

Difference between discharge measurements Discharge measurement location:

> of Hillsborough River made upstream from and downstream from Crystal Springs

Hillsborough River Discharge contributes to:

Public Access: Nο 1923 Period-of-record:

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: 2nd

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: 2nd

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: 2nd

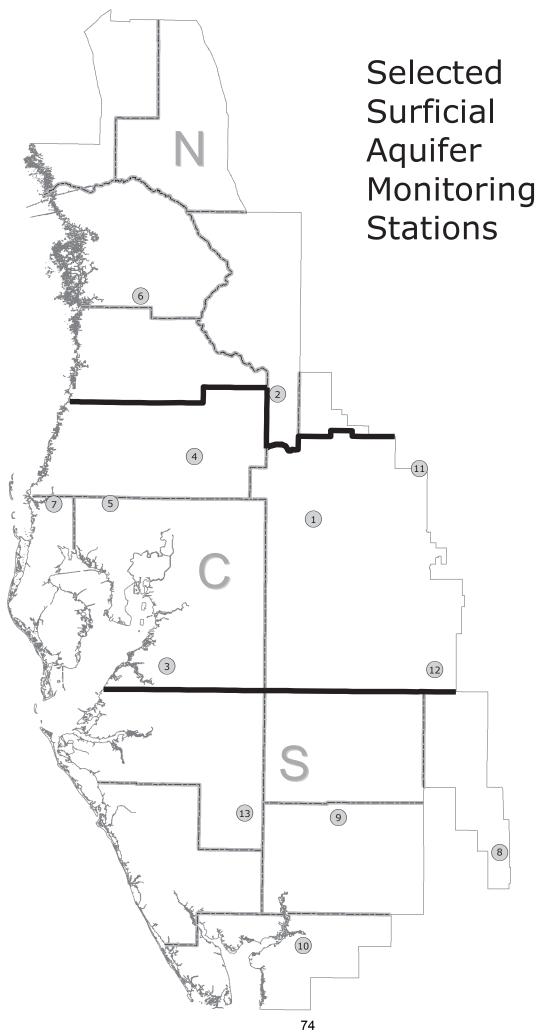
Discharge measurement location: 50 feet downstream from main pool

Discharge contributes to:

Alafia River

Public Access: Yes Period-of-record: 1934

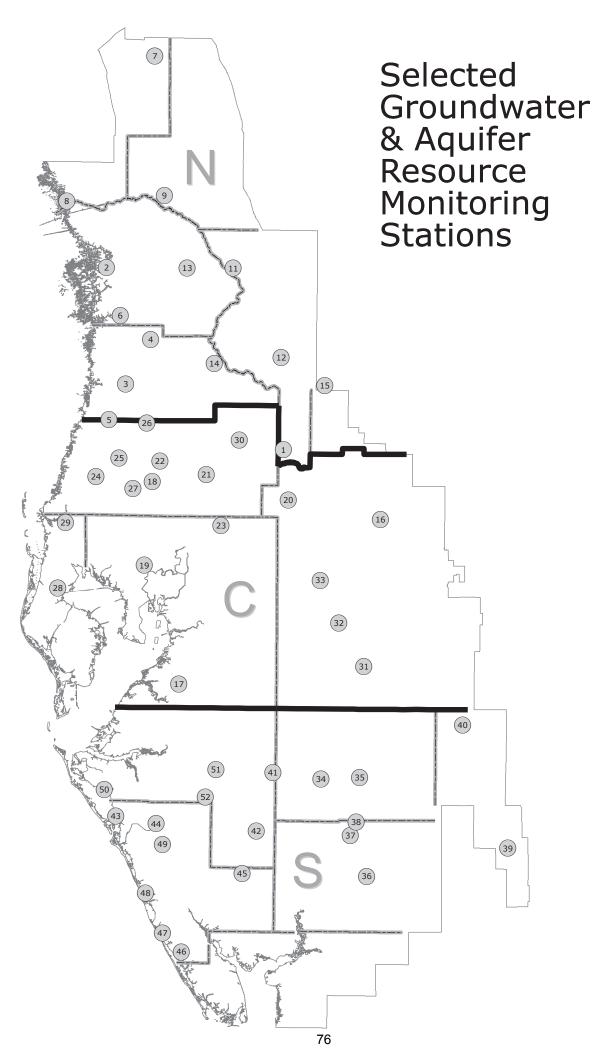
Gage: Water-stage recorder
Maximum daily mean: 83.4 cfs in 10/1967
Minimum daily mean: 6.3 cfs in 02/1989





Selected Surficial Aquifer Monitoring Stations

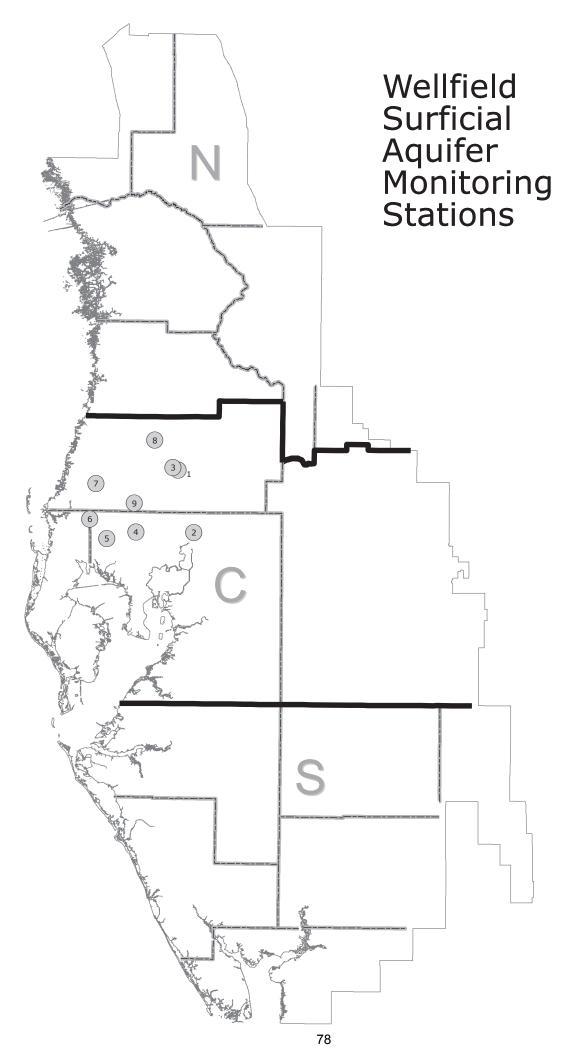
| <u>Map ID</u> | <u>Site Name</u> |
|---------------|-----------------------------------|
| 1 | State Road 33/Combee Road Shallow |
| 2 | Green Swamp L12B Shallow |
| 3 | ROMP 50 Surficial |
| 4 | State Road 577 Shallow |
| 5 | Lutz-Lake Fern Shallow |
| 6 | Lecanto 2 Shallow |
| 7 | Tarpon Road Shallow |
| 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 |
| | |



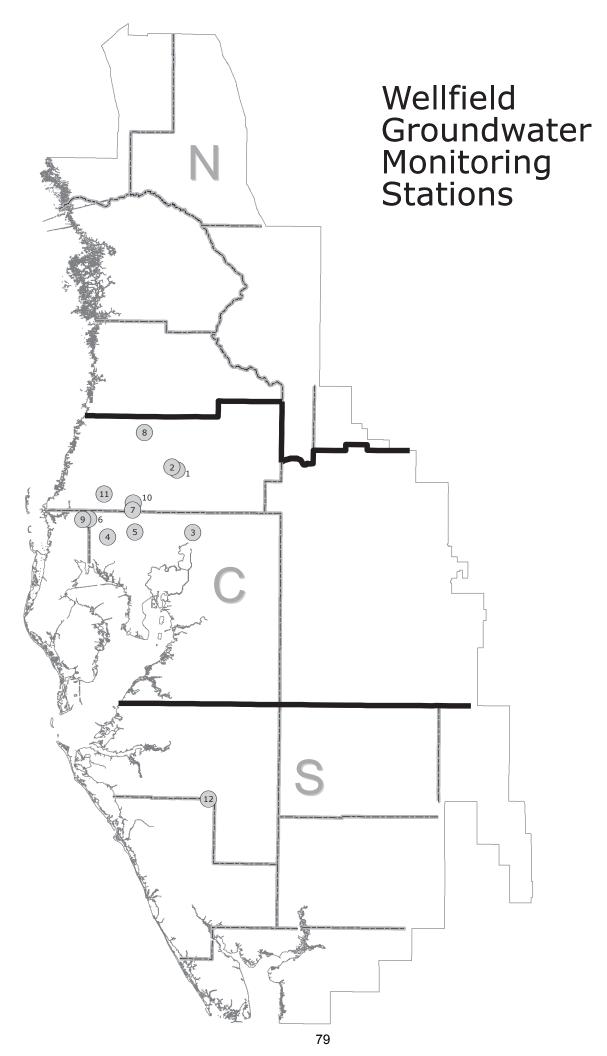


Selected Groundwater & Aquifer Resource Monitoring Stations

| Map ID | Site Name | Map ID | Site Name |
|----------------|--------------------------------|--------|---------------------------------------|
| 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 | | |
| 0, | Park | | |
| 40 | ROMP 43XX Avon Park | | |
| 41 | ROMP 32 Lower Ocala/Avon | | |
| | Park | | |
| 42 | Edgeville 3 Deep | | |
| - - | | | |







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

| Map ID | Site Name |
|--------|-------------------------------|
| 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 |

