Hydrologic Conditions

for the month of

March 2009

Prepared by the Hydrologic Data Section Operations Department



April 28, 2009

http://www.watermatters.org

TABLE OF CONTENTS

Introduction	1	
Executive Summary – Provisional	2	
Executive Summary	3	
Regional Overview	4	
Rainfall	5 - 12	
Surface Water		
Lakes	13 - 2	0
Streams	21 - 2	5
Springs	26 - 2	9
Ground Water		
Surficial Aquifer	30 - 3	2
Intermediate and Floridan Aquifers	33 - 4	2
Public Supply Wellfields	43 - 4	4
Aquifer Resource	45 - 4	6
Water Demand		
Public Supply Surface Water Reservoirs	47 - 4	8
Reservoirs	49 - 5	3
Appendices		
Rainfall Percentiles by Intervals & Region	54 - 5	5
Rainfall Grid (NEXRAD)	56	
Lake Monitoring Stations	57 - 6	2
Stream Monitoring Stations	63 - 6	4
Description of Stream Monitoring Stations	65 - 6	8
Springs Monitoring Stations	69 - 7	0
Description of Springs Monitoring Stations	71 - 7	3
Surficial Aquifer Monitoring Stations	74 - 7	5
Groundwater & Aquifer Resource Monitoring Stations	76 - 7	7
Wellfield Groundwater Monitoring Stations		
	81	
Errata Sheet		

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INTRODUCTION

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

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

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

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

Registration #PG-1704

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 April 21, 2009

Provisional rainfall totals are provided for the period of April 1, 2009 through April 20, 2009. The northern region has received an average of 1.40 inches, while the historic mean for the month of April is 2.78 inches. The central region has received an average of 1.48 inches, while the historic mean for the central region for April is 2.46 inches. The southern region has received 1.00 inch, while the historic mean for the southern region for April is 2.51 inches.

Provisional lake level data indicate that during the first 21 days of April, water levels have decreased in all regions of the District. Average lake levels in the Northern region decreased an average of 0.28 foot and were 5.79 feet below the base of the normal range. Lake levels in the Tampa Bay region decreased an average of 0.29 foot and were 2.70 feet below the base of the normal range. Lake levels in the Polk Uplands region decreased 0.31 foot and were 2.60 feet below the base of the normal range. The Lake Wales Ridge region posted an average decrease of 0.31 foot and was 4.79 feet below the base of the normal range.

As of April 20, 2009, average streamflow increased in the northern region of the District, while it decreased in the central and southern regions, compared to last month's data from regional index streams. The average streamflow for the Withlacoochee River near Holder in the northern region was below-normal at the 7th percentile. The average streamflow measured at the Hillsborough River near Zephyrhills in the central region was below-normal at the 1st percentile, and the Peace River at Arcadia in the southern region was below-normal at the 2nd percentile.

Provisional groundwater data derived from the Aquifer Resource Index, as of April 20, 2009, indicate that average water levels decreased in the northern and central counties of the District, while they increased in the southern counties. Water levels decreased an average of 1.43 feet in the northern counties and were 2.02 feet below the bottom of the normal range. Water levels decreased an average of 0.40 foot in the central counties and were 1.63 feet below the bottom of the normal range. Water levels increased an average of 0.60 foot in the southern counties and were 1.15 feet below the bottom of the normal range.

EXECUTIVE SUMMARY

Hydrologic Conditions for March 2009

In March, average rainfall totals for all three regions of the District were below-normal. The normal range for rainfall is defined by totals that fall on or between the 25th to 75th percentiles of the historical monthly accumulation for each region and where the 50th percentile represents the historical median. The northern region received an average of 1.24 inches of rainfall, equivalent to the 15th percentile of the historical March record. The central region received an average of 0.93 inch of rainfall, equivalent to the 11th percentile of the historical March record. The southern region received an average of 1.08 inches of rainfall, equivalent to the 20th percentile. The District-wide rainfall average of 1.07 inches was equivalent to the 10th percentile of the historical March record.

During the 12-month period from April 1, 2008 through March 31, 2009, 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 "very dry." The northern region received an average of 43.13 inches of rainfall, equivalent to the 11th percentile of the historical record. The central region received an average of 40.00 inches of rainfall, equivalent to the 7th percentile. The southern region received an average of 44.29 inches of rainfall, equivalent to the 18th percentile. The District-wide rainfall average of 42.35 inches was equivalent to the 9th percentile of the historical annual record.

Average lake levels in March were below the annual normal range in all regions of the District. Normal lake levels are defined as levels that fall between the minimum low management level and the minimum flood level. Lake levels in the northern region decreased by an average of 0.49 foot and were 5.51 feet below the base of the annual normal range. Lake levels in the Tampa Bay region decreased an average of 0.44 foot and were 2.41 feet below the base of the annual normal range. Lake levels in the Polk Uplands region decreased 0.38 foot and were 2.29 feet below the base of the annual normal range. Average lake levels in the Lake Wales Ridge region decreased 0.40 foot and ended the month 4.48 feet below the base of the annual normal range.

Total streamflow in regional index streams, in March, was below-normal in the all regions of the District. Normal streamflow is defined as falling between the 25th and 75th percentiles. Streamflow measured at the Withlacoochee River near Holder station in the northern region was in the 5th percentile. Streamflow in the Hillsborough River near Zephyrhills station in the central region was in the 1st percentile, while total streamflow measured at the Peace River at Arcadia station in the southern region was in the 2nd percentile during March.

In March, groundwater data showed that levels in the intermediate and Floridan aquifers were below the normal range in all three regions of the District. The normal range is defined as between the 25th and 75th percentiles. The groundwater level in the northern region was in the 16th percentile, while levels in the central and southern regions were in the 11th and 10th percentiles, respectively.

REGIONAL OVERVIEW OF HYDROLOGIC CONDITIONS

MARCH 2009

Northern Region

In March, the northern region received an average of 1.24 inches of rainfall, equivalent to the 15th percentile of the historical March readings, which is considered "drier than normal." Average lake levels decreased in the northern region and ended the month an average of 5.51 feet below the base of the annual normal range. Total streamflow measured in the Withlacoochee River near Holder station decreased and was in the 5th percentile. Regional groundwater levels indicated average surficial aquifer water levels decreased and were in the 7th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 16th percentile.

Central Region

In March, the central region received an average of 0.93 inch of rainfall, equivalent to the 11th percentile of historical March readings, which is considered "drier than normal." Average lake levels decreased in the Tampa Bay and Polk Uplands regions and ended the month 2.41 and 2.29 feet, respectively, below the base of the annual range. Total streamflow measured at the Hillsborough River near Zephyrhills station decreased and was in the 1st percentile. Regional groundwater levels indicated average surficial aquifer water levels decreased and were in the 28th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 11th percentile.

Southern Region

In March, the southern region received an average of 1.08 inches of rainfall, equivalent to the 20th percentile of historical March readings, which is considered "drier than normal." Average lake levels decreased in the Lake Wales Ridge region and ended the month 4.48 feet below the base of the annual normal range. Total streamflow measured at the Peace River at Arcadia station decreased and was in the 2nd percentile. Regional groundwater levels indicated average surficial aquifer water levels decreased and were in the 13th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 10th percentile.

RAINFALL

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

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

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

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

In March, rainfall totals for all three regions of the District were below-normal. The normal range for rainfall is defined by totals that fall on or between the 25th to 75th percentiles of the historical monthly average for each region and where the 50th percentile represents the historical median. The northern region received an average of 1.24 inches of rainfall, equivalent to the 15th percentile of the historical record. The central region received an average of 0.93 inch, equivalent to the 11th percentile; while the southern region received an average of 1.08 inches, equivalent to the 20th percentile. District-wide, rainfall averaged 1.07 inches, which is equivalent to the 10th percentile of the historical March record.

During the 12-month period from April 1, 2008 through March 31, 2009, 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 "very dry." The northern region received an average of 43.13 inches of rainfall, equivalent to the 11th percentile of the historical record. The central region received an average of 40.00 inches of rainfall, equivalent to the 7th percentile. The southern region received an average of 44.29 inches of rainfall, equivalent to the 18th percentile. The District-wide rainfall average was 42.35 inches, which is equivalent to the 9th percentile of the historical annual record.

Tampa Monthly Climate Summary for March 2009

According to the National Weather Service (NWS), the monthly average temperature (°F) in the Tampa Bay area (TBA) was 69.3 degrees, which was 1.9 degree above normal. The highest temperature recorded in the TBA during the month was 86 degrees, while the lowest temperature recorded during the month was 39 degrees.

Temperature and Precipitation Outlook

The Climate Prediction Center's (CPC) three-month weather forecast, as of April 16, 2009, is inconclusive and indicates an equal chance for below-normal, normal or above normal precipitation in all three regions of the District, during May through July 2009. The temperature forecast for this same time-period is also inconclusive and indicates equal chances for below-normal, normal or above-normal temperatures in all 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 MARCH 2009 RAINFALL TO HISTORICAL RAINFALL AVERAGES

Regional Summary:

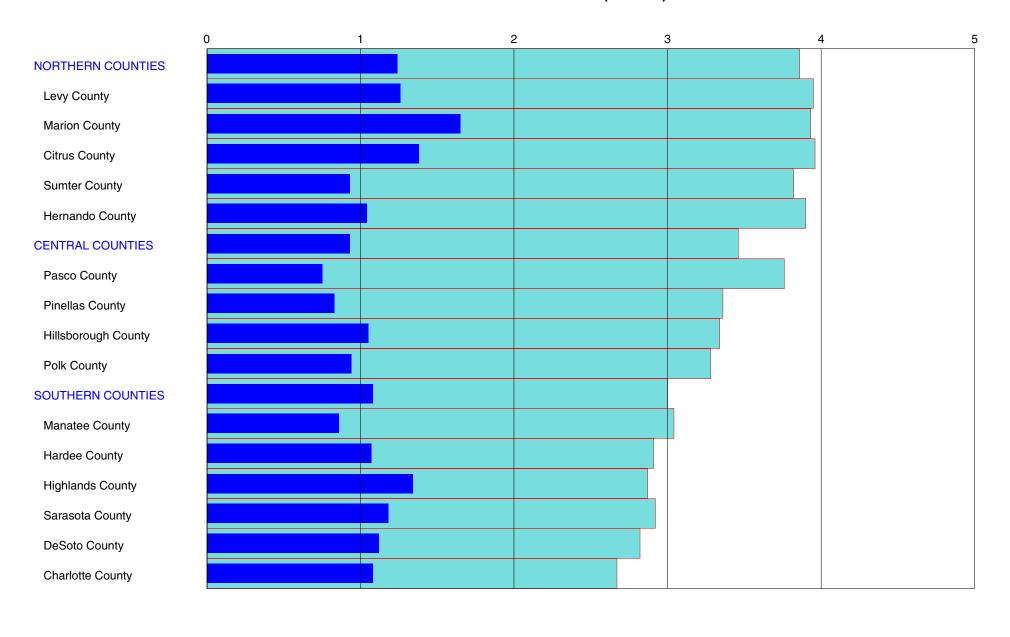
Region	MAR 2009 Average Rainfall	Historical Average for MAR	Departure from Historical Average	Calendar Year 2009 Cumulative Rainfall JAN-MAR	Calendar Year Historical Cumulative Rainfall JAN-MAR	Departure from Historical Cumulative MAR 2009	Cumulative 12-month Rainfall APR 2008- MAR 2009	Historical 12-month Cumulative Rainfall	Departure from Historical 12-month Cumulative
Northern Counties	1.24	3.86	-2.62	4.34	9.63	-5.29	43.13	53.49	-10.36
Central Counties	0.93	3.46	-2.53	3.61	8.84	-5.23	40.00	52.47	-12.47
Southern Counties	1.08	3.00	-1.92	2.67	7.85	-5.18	44.29	52.36	-8.07
District All Counties	1.07	3.41	-2.34	3.48	8.70	-5.22	42.35	52.60	-10.25
Regional Countie	es Summary:								
NORTHERN COUNTIES	MAR 2009 Average Rainfall	Historical Average for MAR	Departure from Historical Average	Calendar Year 2009 Cumulative Rainfall JAN-MAR	Calendar Year Historical Cumulative Rainfall JAN-MAR	Departure from Historical Cumulative MAR 2009	Cumulative 12-month Rainfall APR 2008- MAR 2009	Historical 12-month Cumulative Rainfall	Departure from Historical 12-month Cumulative
Levy County Marion County Citrus County Sumter County Hernando County CENTRAL COUNTIES	1.26	3.95	-2.69	5.78	10.42	-4.64	48.34	53.88	-5.54
	1.65	3.93	-2.28	5.65	10.01	-4.36	45.16	54.25	-9.09
	1.38	3.96	-2.58	4.59	9.68	-5.09	44.59	53.91	-9.32
	0.93	3.82	-2.89	3.38	9.39	-6.01	40.69	51.96	-11.27
	1.04	3.90	-2.86	3.29	9.60	-6.31	39.79	54.94	-15.15
Pasco County Pinellas County Hillsborough County Polk County SOUTHERN COUNTIES	0.75	3.76	-3.01	3.43	9.37	-5.94	39.45	53.83	-14.38
	0.83	3.36	-2.53	3.47	8.78	-5.31	39.24	51.45	-12.21
	1.05	3.34	-2.29	3.82	8.65	-4.83	39.13	52.46	-13.33
	0.94	3.28	-2.34	3.58	8.34	-4.76	41.02	51.94	-10.92
Manatee County Hardee County Highlands County Sarasota County DeSoto County Charlotte County	0.86	3.04	-2.18	3.05	8.25	-5.20	41.41	53.63	-12.22
	1.07	2.91	-1.84	3.06	7.65	-4.59	43.82	52.19	-8.37
	1.34	2.87	-1.53	2.90	7.35	-4.45	50.63	51.84	-1.21
	1.18	2.92	-1.74	2.49	7.83	-5.34	42.09	52.70	-10.61
	1.12	2.82	-1.70	2.20	7.25	-5.05	45.26	51.79	-6.53
	1.08	2.67	-1.59	2.14	7.00	-4.86	46.84	52.21	-5.37

MARCH 2009 RAINFALL CHARACTERIZATION

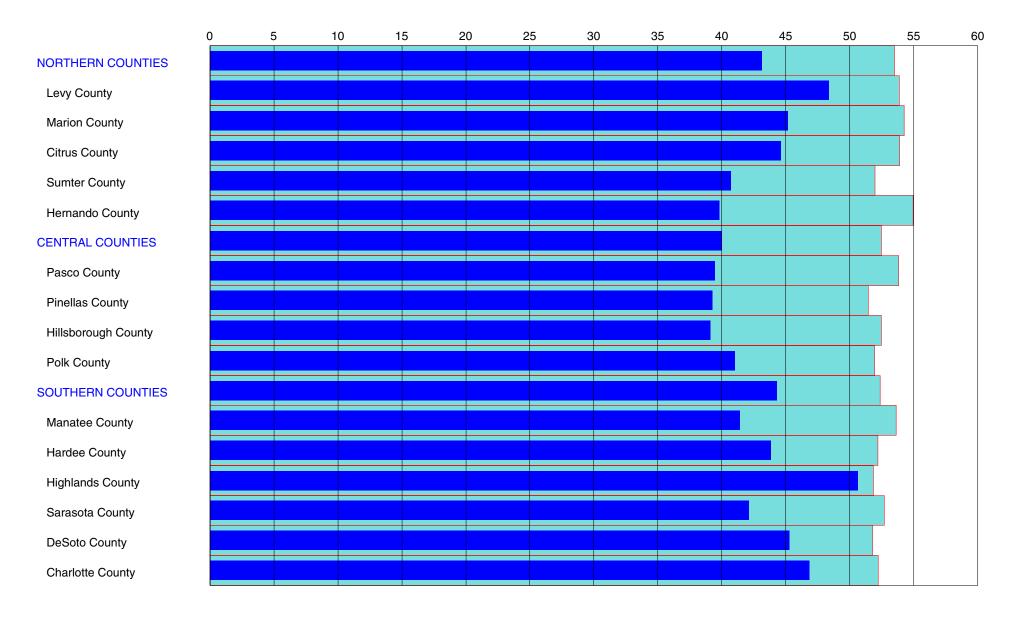
Regional Characterization:

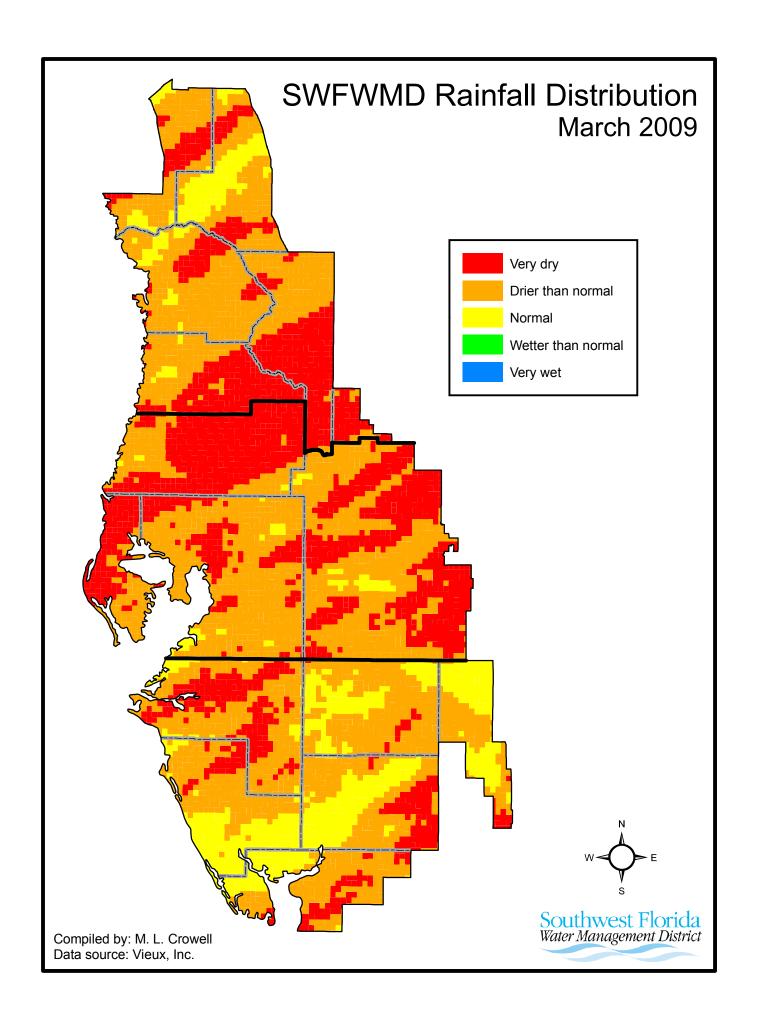
Region	MAR 2009 Average Rainfall	Historical MAR Percentile	MAR Rainfall Characterization	Cumulative 12-month Rainfall APR 2008- MAR 2009	Historical 12-month Cumulative Percentile	12-month Cumulative Rainfall Characterization	
Northern Counties Central Counties Southern Counties District Counties	1.24 0.93 1.08 1.07	15 11 20 10	Drier than normal Drier than normal Drier than normal Very dry	43.13 40.00 44.29 42.35	11 7 18 9	Drier than normal Very dry Drier than normal Very dry	
Regional Counti	es Characteriza	tion:					
NORTHERN COUNTIES	MAR 2009 Average Rainfall	Historical MAR Percentile	MAR Rainfall Characterization	Cumulative 12-month Rainfall APR 2008- MAR 2009	Historical 12-month Cumulative Percentile	12-month Cumulative Rainfall Characterization	
Levy County Marion County Citrus County Sumter County Hernando County	1.26 1.65 1.38 0.93 1.04	13 17 19 13 12	Drier than normal Drier than normal Drier than normal Drier than normal Drier than normal	48.34 45.16 44.59 40.69 39.79	29 16 17 9 5	Normal Drier than normal Drier than normal Very dry Very dry	
Pasco County Pinellas County Hillsborough County Polk County SOUTHERN COUNTIES	0.75 0.83 1.05 0.94	9 13 15 10	Very dry Drier than normal Drier than normal Very dry	39.45 39.24 39.13 41.02	5 10 5 9	Very dry Very dry Very dry Very dry	
Manatee County Hardee County Highlands County Sarasota County DeSoto County Charlotte County	0.86 1.07 1.34 1.18 1.12 1.08	19 24 27 29 25 31	Drier than normal Drier than normal Normal Normal Drier than normal Normal	41.41 43.82 50.63 42.09 45.26 46.84	9 18 43 14 27 31	Very dry Drier than normal Normal Drier than normal Normal Normal	

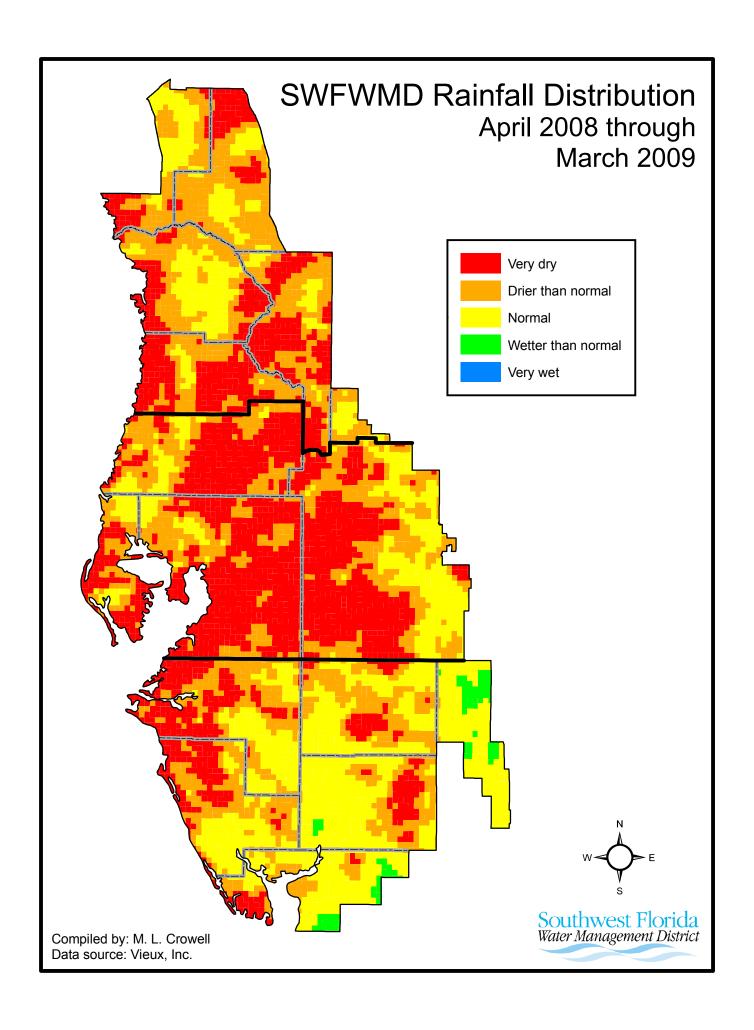
MARCH 2009 RAINFALL HISTORIC AVERAGE VS HISTORICAL MARCH AVERAGE (INCHES)



MARCH 2009 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 March, 74 of the 76 lakes monitored for this report recorded water level decreases. Water levels decreased in the Northern, Tampa Bay, Polk Uplands and Lake Wales Ridge regions by 0.49, 0.44, 0.38 and 0.40 foot, respectively. District-wide, average water levels decreased by 0.43 foot, compared to last month.

In March, average water levels were lower in 62 of the 76 lakes, compared to March 2008. In the Northern, Tampa Bay and Polk Uplands regions, average lake levels were lower by 2.00 feet, 1.00 foot and 0.38 foot, respectively, compared to last years levels. In the Lake Wales Ridge regions, average lake levels were higher by 0.28 foot. District-wide, average lake levels were lower by 0.89 foot.

Water levels in 70 of the 76 lakes were below the base of the annual normal range. Average lake levels in the Northern and Tampa Bay regions were 5.51 and 2.41 feet, respectively, below the base of the annual normal range. Water levels in the Polk Uplands and Lake Wales Ridge regions were 2.29 and 4.48 feet, respectively, below the base of the annual normal range. District-wide, average lake levels were 3.24 feet below the base of the annual normal range. Water levels in 46 of the 76 lakes were below the drought-year levels.

Period-of-record low water levels were recorded in four of the 76 lakes in March 2009, as follows:

Northern Region - Hancock Lake, Lake Iola, Moon Lake Tampa Bay Region - King Lake

SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

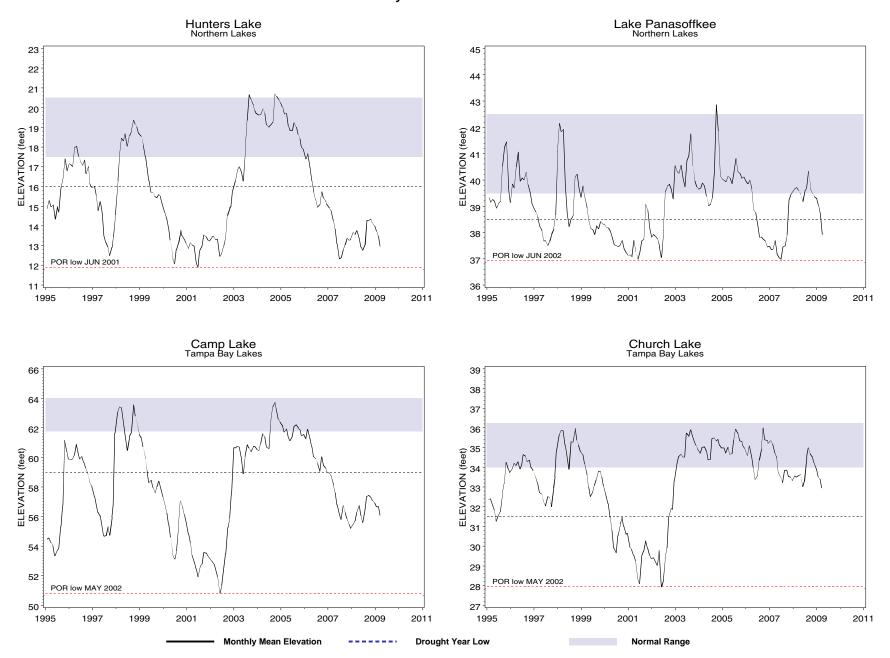
NORTHERN LA					Change	Change	Diff	(MELM)	(MLM)	(MF)	Period		Period		
Lake Name	County	Beginning of Record	FEB 2009	MAR 2009	MAR 2008	from FEB 2009	from MAR 2008	from MELM	Drought Year Low	Normal Year Low	Normal Year High	of Record Low	Record Low Date	of Record High	Record High Date
Big Fish Lake	Pasco	1980	69.13	68.94	69.80	-0.19	-0.86	-2.81	71.75	73.05	76.05	65.45	JUN 1997	77.40	SEP 2004
Crews Lake	Pasco	1964	43.60	42.95	44.58	-0.65	-1.63	-7.05	50.00	52.00	55.00	42.63	APR 2001	56.60	SEP 1964
Hancock Lake	Pasco	1978	90.72	90.00	95.24	-0.72	-5.24	-12.00	102.00	104.00	106.50	90.00	MAR 2009	108.90	MAR 1998
Hunters Lake	Hernando	1965	13.48	12.98	13.76	-0.50	-0.78	-3.02	16.00	17.50	20.50	11.90	JUN 2001	20.70	MAR 1970
Lake Iola	Pasco	1965	134.67	134.23	137.30	-0.44	-3.07	-8.27	142.50	145.00	147.50	134.23	MAR 2009	148.70	JAN 1989
Lake Lindsey	Hernando	1965	62.62	62.27	64.16	-0.35	-1.89	-2.23	64.50	66.00	69.00	62.20	MAY 1994	70.14	AUG 1965
Little Lake (Consu	Citrus	1975	34.62	34.23	36.86	-0.39	-2.63	-3.02	37.25	39.00	41.50	31.10	MAY 2001	42.84	SEP 2004
Lake Miona	Sumter	1978	49.99	49.66	50.63	-0.33	-0.97	-1.34	51.00	53.00	55.00	47.88	MAY 2002	56.60	OCT 1982
Moon Lake	Pasco	1965	33.71	33.41	34.93	-0.30	-1.52	-2.09	35.50	37.50	40.50	33.41	MAR 2009	41.26	SEP 2004
Lake Panasoffkee	Sumter	1955	38.71	37.92	39.60	-0.79	-1.68	-0.58	38.50	39.50	42.50	36.93	JUN 2002	44.28	APR 1960
Lake Pasadena	Pasco	1984	84.05	83.53	86.64	-0.52	-3.11	-6.47	90.00	91.50	94.50	81.56	MAY 2001	94.86	OCT 2004
Spring Lake	Hernando	1965	175.56	175.19	177.44	-0.37	-2.25	-3.06	178.25	181.25	184.25	174.85	JUN 1965	183.57	OCT 1984
Floral City Pool	Citrus	1957	38.34	37.68	39.66	-0.66	-1.98	-0.57	38.25	40.25	42.50	30.29	APR 2008	44.22	MAR 1960
Inverness Pool	Citrus	1957	35.82	35.29	36.48	-0.53	-1.19	-0.96	36.25	38.25	40.50	31.56	MAY 2001	42.94	APR 1960
Hernando Pool	Citrus	1936	34.11	33.56	34.73	-0.55	-1.17	-1.19	34.75	36.75	39.00	30.92	JUL 1957	41.74	APR 1960

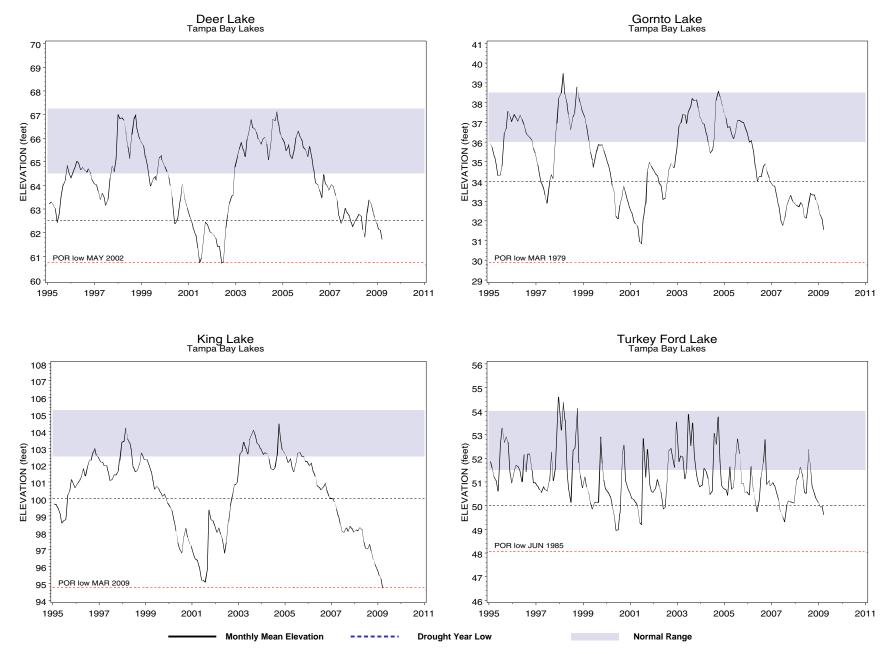
TAMPA BAY L	AKES					Change	Change	Diff	(MELM)	(MLM)	(MF)	Period		Period	
Lake Name	County	Beginning of Record	FEB 2009	MAR 2009	MAR 2008	from FEB 2009	from MAR 2008	from MELM	Drought Year Low	Normal Year Low	Normal Year High	of Record Low	Record Low Date	of Record High	Record High Date
Lake Alice	Hillsborough	1971	36.09	35.69	36.41	-0.40	-0.72	-1.81	37.50	40.25	42.25	33.24	MAY 2002	42.42	SEP 2004
Lake Ann-Parker	Pasco	1969	45.65	45.21	45.79	-0.44	-0.58	0.21	45.00	45.75	48.75	43.28	JUN 2001	49.29	SEP 1979
Bay Lake	Hillsborough	1982	44.53	44.08	45.50	-0.45	-1.42	1.58	42.50	44.00	46.75	41.86	APR 1985	46.46	DEC 1997
Lake Brant	Hillsborough	1971	54.46	54.44	54.56	-0.02	-0.12	-0.06	54.50	56.50	58.75	51.65	JUN 1994	60.04	AUG 1979
Brooker Lake	Hillsborough	1977	60.45	59.92	60.32	-0.53	-0.40	0.92	59.00	61.00	64.25	56.49	MAY 2002	64.08	DEC 1997
Calm Lake	Hillsborough	1965	44.86	44.48	45.48	-0.38	-1.00	-0.52	45.00	47.50	50.50	41.88	JUN 2002	50.73	SEP 2004
Camp Lake	Pasco	1968	56.68	56.09	56.28	-0.59	-0.19	-2.91	59.00	61.75	64.00	50.82	MAY 2002	64.00	SEP 1979
Carlton Lake	Hillsborough	1976	89.11	88.64	90.18	-0.47	-1.54	0.64	88.00	90.50	93.50	86.82	MAY 2001	94.60	FEB 1998
Lake Carroll	Hillsborough	1946	33.59	33.14	34.07	-0.45	-0.93	0.64	32.50	34.50	37.00	30.87	MAY 2002	40.08	SEP 1947
Church Lake	Hillsborough	1957	33.40	32.96	33.58	-0.44	-0.62	1.46	31.50	34.00	36.25	27.94	MAY 2002	37.28	AUG 1959
Lake Cooper	Hillsborough	1946	57.54	57.15	58.00	-0.39	-0.85	0.15	57.00	59.75	61.75	55.60	JUN 2001	62.54	SEP 1947
Crescent Lake	Hillsborough	1981	39.36	38.93	38.81	-0.43	0.12	0.43	38.50	40.00	42.50	35.34	JUN 2001	42.65	DEC 2002
Deer Lake	Hillsborough	1977	62.10	61.73	62.78	-0.37	-1.05	-0.77	62.50	64.50	67.25	60.72	MAY 2002	67.42	DEC 1997
Egypt Lake	Hillsborough	1978	35.46	35.04	35.54	-0.42	-0.50	2.54	32.50	35.00	37.50	33.06	MAY 2000	38.15	SEP 1985
Gornto Lake	Hillsborough	1979	32.10	31.56	32.93	-0.54	-1.37	-2.44	34.00	36.00	38.50	29.86	MAR 1979	39.48	FEB 1998
Lake Harvey	Hillsborough	1970	57.73	57.28	58.00	-0.45	-0.72	-0.72	58.00	60.25	62.50	53.94	MAY 2002	63.90	DEC 1997
Lake Hiawatha	Hillsborough	1981	48.94	48.56	49.08	-0.38	-0.52	3.56	45.00	48.00	50.50	46.14	JUN 2000	51.04	DEC 2002
Horse Lake	Hillsborough	1930	40.73	40.17	41.43	-0.56	-1.26	-1.83	42.00	44.00	46.50	36.33	JUN 2002	50.00	AUG 1959
Lake Keene	Hillsborough	1948	59.78	59.78	59.80	0.00	-0.02	0.78	59.00	60.50	63.00	56.12	JUN 2002	63.30	SEP 1953
Keystone Lake	Hillsborough	1946	39.79	39.35	39.06	-0.44	0.29	0.35	39.00	39.75	42.00	37.84	JUN 2000	43.55	MAR 1960
King Lake	Pasco	1977	95.25	94.73	98.30	-0.52	-3.57	-5.27	100.00	102.50	105.25	94.73	MAR 2009	104.92	SEP 1983
Lake Leclare	Hillsborough	1977	48.09	47.70	48.22	-0.39	-0.52	0.70	47.00	49.50	52.00	44.95	JUN 2001	52.34	DEC 1997
Lake Linda	Pasco	1969	62.16	61.50	62.90	-0.66	-1.40	-0.50	62.00	64.00	66.75	60.07	MAY 2001	67.13	AUG 1979
Little Lake	Hillsborough	1979	43.80	43.38	44.26	-0.42	-0.88	1.38	42.00	43.50	46.50	38.06	JUN 1994	46.44	FEB 1998
Long Pond	Hillsborough	1978	41.20	40.53	42.16	-0.67	-1.63	-1.47	42.00	44.00	46.50	36.33	MAY 1979	48.27	SEP 1998
Mud (Walden) Lake	Hillsborough	1978	112.66	112.30	112.92	-0.36	-0.62	1.80	110.50	112.50	115.00	111.94	MAY 2001	114.42	MAR 1978
Lake Padgett	Pasco	1965	67.60	67.18	69.07	-0.42	-1.89	-0.32	67.50	69.00	71.25	66.27	JUN 2001	71.90	SEP 1988
Platt Lake	Hillsborough	1946	47.44	46.90	47.26	-0.54	-0.36	0.90	46.00	47.75	50.50	42.53	JUN 2001	51.88	SEP 1979
Rainbow Lake	Hillsborough	1971	34.02	33.56	34.74	-0.46	-1.18	-1.44	35.00	37.50	40.50	29.82	JUN 2002	40.74	AUG 2003
Lake Stemper	Hillsborough	1946	55.30	54.74	56.82	-0.56	-2.08	-3.26	58.00	59.50	62.00	53.36	JUN 2001	62.30	MAR 1960
Lake Thomas	Hillsborough	1971	60.20	59.68	60.78	-0.52	-1.10	0.43	59.25	61.25	63.50	56.48	JUN 2002	64.48	SEP 1979
Turkey Ford Lake	Hillsborough	1970	49.98	49.62	51.62	-0.36	-2.00	-0.38	50.00	51.50	54.00	48.07	JUN 1985	55.28	SEP 1988
Lake Wimauma	Hillsborough	1974	74.00	73.45	75.84	-0.55	-2.39	-7.55	81.00	83.00	86.75	70.12	MAY 2001	84.38	MAR 1998

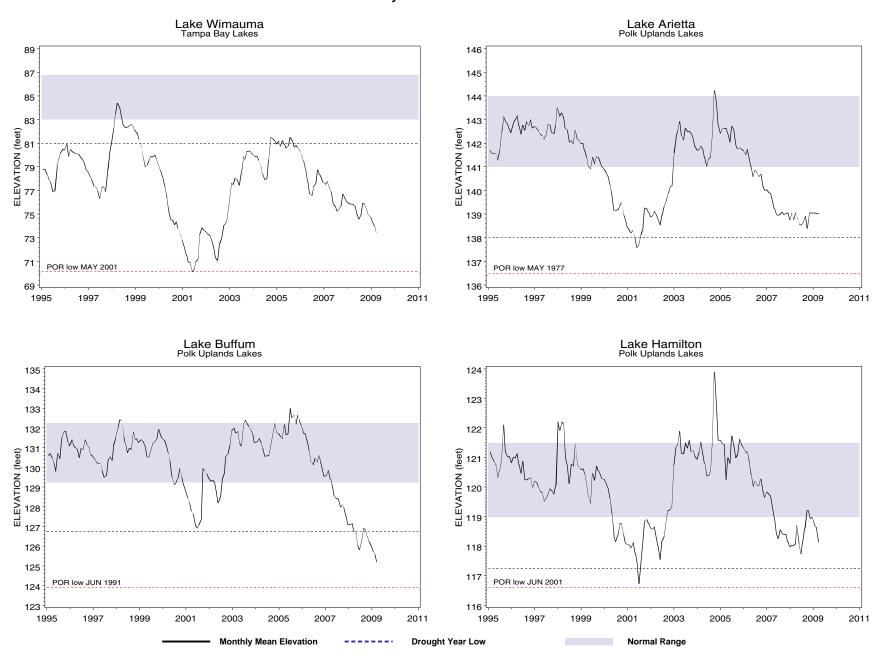
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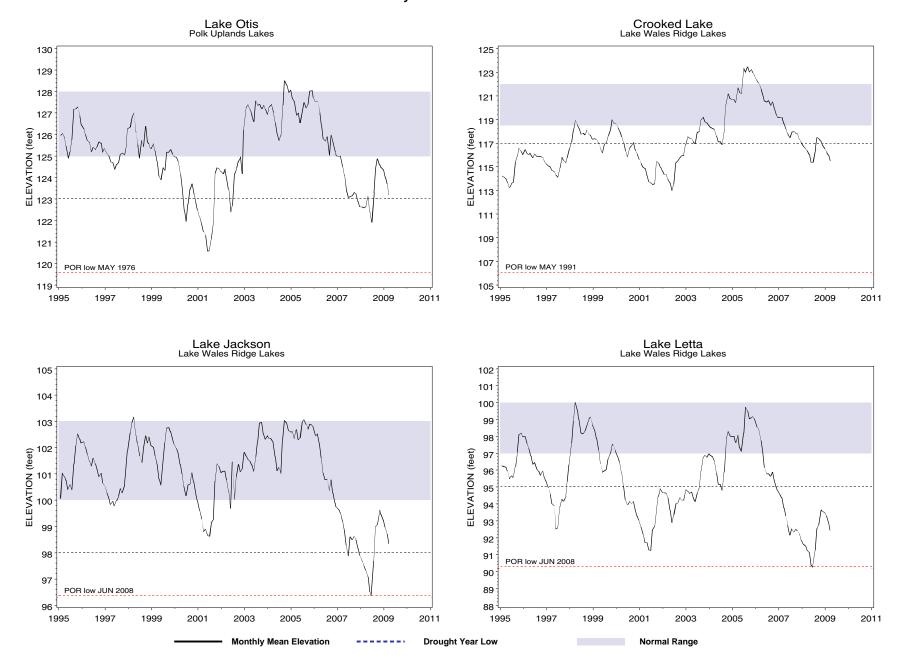
SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

POLK UPLAN	IDS LAKES					Change	Change	Diff	(MELM)	(MLM)	(MF)	Period		Period	
Lake Name	County	Beginning of Record	FEB 2009	MAR 2009	MAR 2008	from FEB 2009	from MAR 2008	from MELM	Drought Year Low	Normal Year Low	Normal Year High	of Record Low	Record Low Date	of Record High	Record High Date
Lake Alfred	Polk	1961	125.08	124.75	125.92	-0.33	-1.17	-1.50	126.25	128.25	130.75	122.40	MAY 1977	132.76	MAR 1998
Lake Ariana	Polk	1945	132.52	132.20	133.10	-0.32	-0.90	-0.30	132.50	134.50	137.00	131.28	MAY 1976	137.90	AUG 1946
Lake Arietta	Polk	1970	139.03	139.03	139.05	0.00	-0.02	1.03	138.00	141.00	144.00	136.50	MAY 1977	144.33	OCT 2004
Blue Lake South	Polk	1986	111.32	110.71	110.63	-0.61	0.08	-1.79	112.50	114.00	117.00	103.38	FEB 1991	119.19	DEC 2005
Lake Bonny	Polk	1954	123.80	123.28	125.12	-0.52	-1.84	-2.72	126.00	128.00	130.50	122.92	JUN 2001	133.08	SEP 2004
Lake Buffum	Polk	1972	125.56	125.20	126.80	-0.36	-1.60	-1.55	126.75	129.25	132.25	123.90	JUN 1991	133.00	JUN 2005
Clearwater Lake	Polk	1979	139.74	139.38	139.62	-0.36	-0.24	0.38	139.00	141.00	143.50	137.93	MAY 2001	146.06	AUG 1984
Lake Conine	Polk	1989	124.94	124.63	124.90	-0.31	-0.27	0.13	124.50	126.50	128.75	124.11	MAY 2001	129.95	SEP 2004
Eagle Lake	Polk	1965	126.00	125.65	125.44	-0.35	0.21	-0.85	126.50	128.50	130.75	118.76	MAY 1976	131.50	SEP 1996
Lake Fannie	Polk	1967	121.08	120.69	121.03	-0.39	-0.34	0.69	120.00	123.50	125.75	118.67	MAY 1977	127.51	SEP 2004
Lake Garfield	Polk	1969	101.58	101.22	101.85	-0.36	-0.63	1.22	100.00	101.00	104.75	97.38	JUN 2001	105.91	SEP 1979
Lake Hamilton	Polk	1945	118.64	118.14	118.08	-0.50	0.06	0.89	117.25	119.00	121.50	116.61	JUN 2001	124.34	OCT 1948
Lake Helene	Polk	1961	136.04	135.68	134.64	-0.36	1.04	-3.32	139.00	141.00	144.00	134.06	JUN 2008	146.48	MAR 1998
Lake Howard	Polk	1946	129.44	129.06	128.81	-0.38	0.25	2.06	127.00	129.50	132.00	127.69	MAY 2001	133.10	SEP 1960
Lake Juliana	Polk	1961	128.20	127.89	128.76	-0.31	-0.87	0.39	127.50	130.00	132.50	126.20	MAY 1976	134.10	MAR 1998
Lake Mcleod	Polk	1965	126.10	125.70 123.20	124.81	-0.40	0.89	-2.30	128.00 123.00	129.50	132.00	115.11	MAY 1976	131.98 129.12	SEP 1998 SEP 1960
Lake Otis	Polk	1954	123.72		122.64	-0.52	0.56	0.20		125.00	128.00	119.58	MAY 1976		SEP 1960 SEP 2004
Lake Ruby	Polk	1976	123.58	123.17	123.61	-0.41	-0.44	2.17	121.00	123.00	125.25	117.41	MAY 1976	125.98	SEP 2004 SEP 1988
Lake Gibson	Polk	1954	141.32	140.94	142.94	-0.38	-2.00	-0.56	141.50	141.50	143.50	140.40	JUN 1985	145.40	SEP 1988
LK WALES R	IDGE LAKES	Beginning	FEB	MAR	MAR	Change from FEB	Change from MAR	Diff from	(MELM) Drought	(MLM) Normal	(MF) Normal	Period of Record	Record	Period of Record	Record
Lake Name	County	of Record	2009	2009	2008	2009	2008	MELM	Year Low	Year Low	Year High	Low	Low Date	High	High Date
Lake Annie	Polk	1970	111.75	111.36	111.64	-0.39	-0.28	-2.64	114.00	116.00	119.00	108.36	JUN 1990	117.56	OCT 2005
Lake Clay	Highlands	1983	77.18	76.84	76.08	-0.34	0.76	1.84	75.00	76.00	78.75	74.34	MAY 2001	78.38	OCT 1995
Crooked Lake	Polk	1945	115.98	115.52	116.35	-0.46	-0.83	-1.48	117.00	118.50	122.00	106.10	MAY 1991	123.98	OCT 1948
Lake Jackson	Highlands	1945	98.70	98.35	97.34	-0.35	1.01	0.35	98.00	100.00	103.00	96.37	JUN 2008	103.76	SEP 1947
Lake Letta	Highlands	1951	92.87	92.44	91.25	-0.43	1.19	-2.56	95.00	97.00	100.00	90.27	JUN 2008	101.38	OCT 1953
Lake Lotela	Highlands	1950	98.80	98.38	98.28	-0.42	0.10	-5.62	104.00	105.00	108.50	97.00	JUN 2008	109.38	JUL 1954
Lake Placid	Highlands	1984	90.55	90.21	88.85	-0.34	1.36	0.21	90.00	91.50	94.50	88.08	JUN 2008	94.24	SEP 2003
Starr Lake	Polk	1983	100.60	100.24	100.57	-0.36	-0.33	-7.76	108.00	110.00	113.00	96.23	JUL 2001	109.80	DEC 2005
Trout Lake	Highlands	1981	88.80	88.33	88.82	-0.47	-0.49	-6.67	95.00	98.00	101.00	87.15	MAY 2001	98.90	MAR 1998









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 March, eleven of the twelve stations monitored for this report had decreased streamflow compared to last month. Total streamflow decreased in the northern and central regions of the District by 40.4 cfs (26.1 mgd) and 13.6 cfs (8.8 mgd), respectively. Streamflow decreased in the southern region by 114.1 cfs (73.7 mgd), while District-wide, total streamflow decreased an average of 168.1 cfs (108.6 mgd).

All twelve monitoring stations recorded lower streamflow in March 2009 than in March 2008. Streamflow was lower in the northern region by 216.9 cfs (140.2 mgd), while it was lower in the central and southern regions by 112.5 cfs (72.7 mgd) and 328.4 cfs (212.2 mgd), respectively. District-wide, total streamflow was lower, on average, by 657.8 cfs (425.1 mgd), than the March 2008 average.

Compared to historical March discharge values, Withlacoochee River streamflow, measured at the Holder station and the Trilby station averaged in the 5th and 3rd percentiles, respectively. Streamflow measured at the Anclote, Hillsborough and Pithlachascotee River stations averaged in the 3rd, 1st and 2nd percentiles of respective historical March readings. Streamflow measured at the Alafia River, Josephine Creek and Little Manatee River averaged in the 1st, 13th and 7th percentiles of respective historical March readings. Additionally, streamflow measured at the Manatee, Myakka, and Peace River at Arcadia and Bartow stations averaged in the 11th, 16th, 2nd and 2nd percentiles of respective historical March readings.

SUMMARY OF STREAMFLOW MEASUREMENTS IN MAJOR STREAMS (cfs)

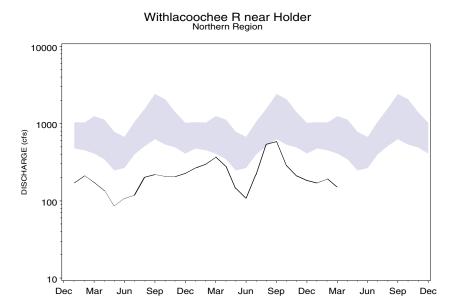
Northern Region	Beginning Year of Record	Mean Discharge FEB 2009	Mean Discharge MAR 2009		Mean Discharge MAR 2008	Change From Prior Month	Change From Prior Year	March Percentile	Record Low	Record Low Date	Record High	Record High Date
Withlacoochee R near Holder	1928	191.9	151.5	31	368.4	-40.4	-216.9	5	60.4	NOV 2000	7096	APR 1960
Withlacoochee R near Trilby	1928	5.9	5.7	31	102.8	-0.2	-97.1	3	1.6	JUN 2000	4255	SEP 1933
•	1920	191.9	151.5	31	368.4	-0.2	-97.1	3	1.0	JOIN 2000	4233	3L1 1933
Northern Region Sum ¹⁾		191.9	151.5		300.4							
Central Region												
Anclote R near Elfers	1946	2.2	2.4	31	28.5	0.2	-26.1	3	1.4	MAY 1981	696	SEP 2004
Hillsborough R near Zephyrhills	1939	55.5	42.4	31	123.5	-13.1	-81.1	1	30.5	MAY 2001	2280	SEP 1960
Pithlachascotee R nr New Pt Richey	1963	0.7	0.0	31	5.3	-0.7	-5.3	2	0.0	(2)	329	SEP 1988
Central Region Sum		58.4	44.8		157.3							
Southern Region												
Alafia River at Lithia	1932	53.6	22.0	31	215.5	-31.6	-193.5	1	9.7	MAY 2001	4185	SEP 1933
Josephine Cr near DeSoto City	1946	11.1	7.6	31	14.3	-3.5	-6.7	13	1.1	MAY 1956	770	SEP 1960
Little Manatee R near Wimauma	1939	42.3	17.9	31	75.3	-24.4	-57.4	7	3.8	MAY 1945	1444	JUL 1945
Manatee River near Myakka Head	1966	13.2	5.5	31	12.8	-7.7	-7.3	11	0.5	APR 1975	597	JUN 2003
Myakka River near Sarasota	1936	11.6	6.8	31	22.7	-4.8	-15.9	16	0.0	(2)	2467	SEP 1947
Peace River at Arcadia	1931	97.4	55.3	30	102.9	-42.1	-47.6	2	9.5	MAY 2000	9876	SEP 1933
Peace River at Bartow	1939	13.3	7.0	31	16.6	-6.3	-9.6	2	0.7	JUN 2001	2746	SEP 2004
Southern Region Sun(3)		229.2	115.1		443.5							

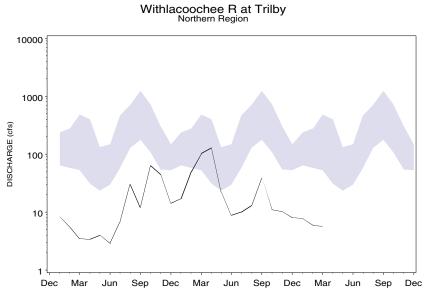
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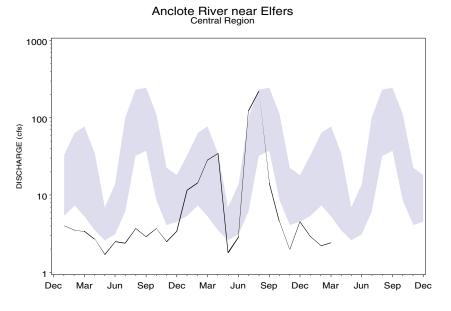
⁽¹⁾ Does not include Withlacoochee R at Trilby.
(2) Periods of no-flow have been recorded in past years.
(3) Does not include the Peace River at Bartow station.

N/D not determined

HYDROGRAPHS OF MAJOR STREAMS JANUARY 2007 TO MARCH 2009

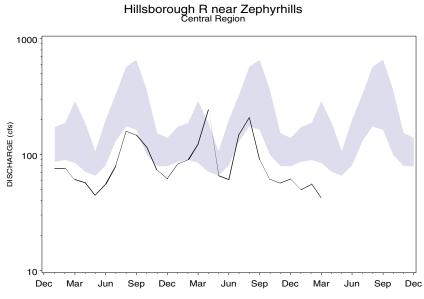






Average Monthly Discharge

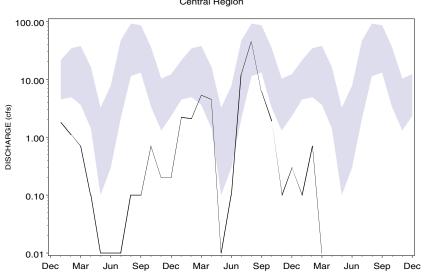
Compiled by Ken Romie



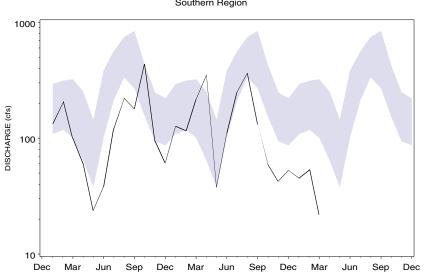
Normal Range

HYDROGRAPHS OF MAJOR STREAMS JANUARY 2007 TO MARCH 2009

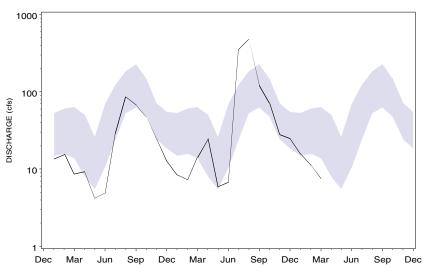




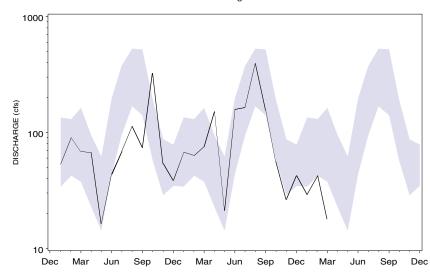
Alafia River at Lithia Southern Region



Josephine Cr near DeSoto Southern Region



Little Manatee R near Wimauma Southern Region



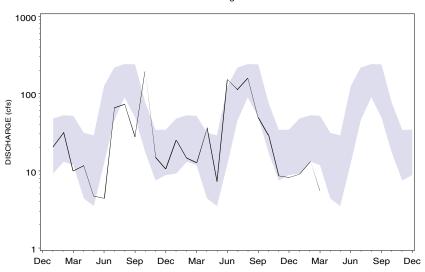
Compiled by Ken Romie

Average Monthly Discharge

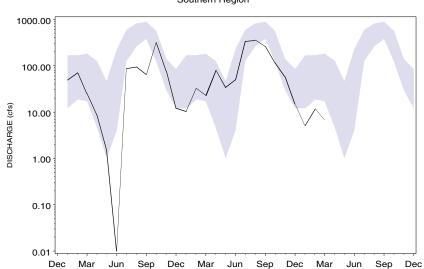
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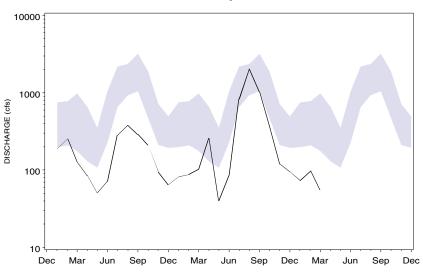




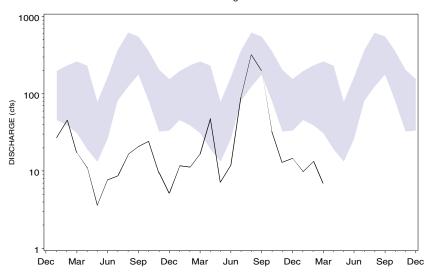
Myakka R near Sarasota Southern Region



Peace R at Arcadia Southern Region



Peace R at Bartow Southern Region



Compiled by Ken Romie

Average Monthly Discharge

Normal Range

Springs

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

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

In March, six of the seven stations reported decreased springflow, compared to the previous month. Total springflow decreased in the northern, central and southern regions by 73.8 cfs (47.7 mgd), 7.9 cfs (5.1 mgd) and 5.6 cfs (3.6 mgd), respectively. District-wide, springflow decreased by 111.1 cfs (71.8 mgd).

Total springflow recorded in all seven stations was lower in March 2009 than March 2008. Total springflow for the northern, central and southern regions was lower by 154.7 cfs (100.0 mgd), 27.7 cfs (17.9 mgd) and 23.6 cfs (15.2 mgd), respectively. District-wide, springflow decreased by 235.8 cfs (152.4 mgd), compared to March 2008 rates.

Compared to historical period-of-record values for March, total springflow measured in Rainbow, Silver and Weeki Wachee Springs, in the northern region, was in the 7th, 3rd and 13th percentiles of respective historical readings. Springflow measured in Crystal and Sulphur Springs in the central region was in the 10th and 7th percentiles of respective historical readings. Springflow measured in Buckhorn and Lithia Springs in the southern region, was in the 21st and 4th percentile, respectively, of historical March readings.

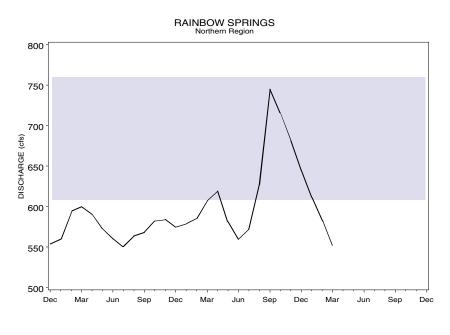
SUMMARY OF SPRING DISCHARGE FROM MAJOR SPRINGS (cfs), MAR 2009

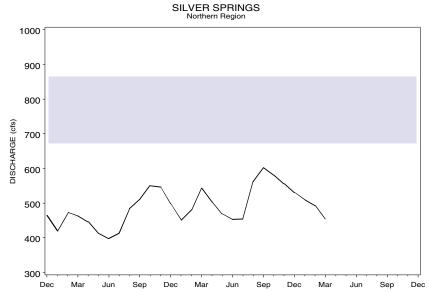
Northern Region	Beginning Year of Record	Mean Discharge FEB 2009	Mean Discharge MAR 2009	Mean Discharge MAR 2008	Change From Prior Month	Change From Prior Year	Percentile	Record Low	Record Low Date	Record High	Record High Date
Rainbow Springs	1904	582.3	552.2	606.9	-30.1	-54.7	7	470.0	JUN2001	1230.0	OCT1964
Silver Springs	1932	492.0	455.0	543.0	-37.0	-88.0	3	350.0	JUN2001	1290.0	OCT1960
Weeki Wachee Springs	1993	127.3	120.6	132.6	-6.7	-12.0	13	101.0	JUN1994	257.0	OCT2004
Northern Region Sum		1201.6	1127.8	1282.5	-73.8	-154.7					
Central Region											
Crystal Springs	1923	36.1	33.3	48.3	-2.9	-15.0	10	2.0	AUG1997	262.0	MAR1996
Sulphur Springs	1956	12.5	7.5	20.3	-5.1	-12.8	7	0.0	JUN1994	145.0	MAR1960
Central Region Sum		48.7	40.8	68.5	-7.9	-27.7					
Southern Region											
Buckhorn Spring	1987	9.4	9.8	12.2	0.4	-2.5	21	2.2	MAY2006	32.7	AUG2004
Lithia Springs	1935	22.8	16.8	37.9	-6.0	-21.1	4	7.0	JUN2000	91.5	NOV2004
Southern Region Sum		32.2	26.6	50.1	-5.6	-23.6					
District Sum		1778.8	1667.7	1903.5	-111.1	-235.8					

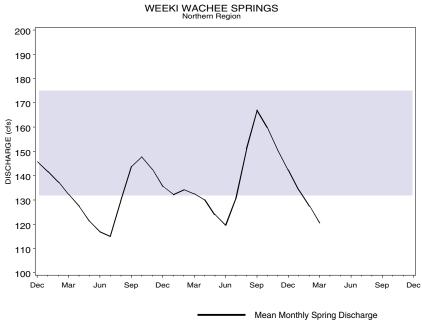
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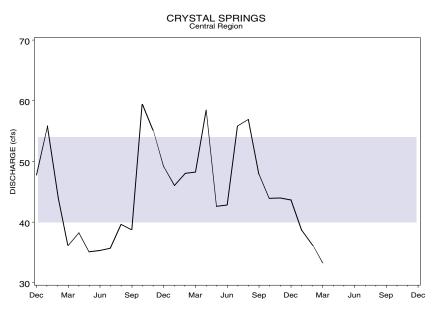
cfs = cubic feet per second
Periods of no flow in Sulphur Springs have been recorded in past years.
Record low and high flows represent historical monthly means.
Percentiles are for the periods-of-record data.
M = Missing data, data not collected for the subject month, or value cannot be calculated

HYDROGRAPHS OF REGIONAL SPRINGS JANUARY 2007 TO MARCH 2009



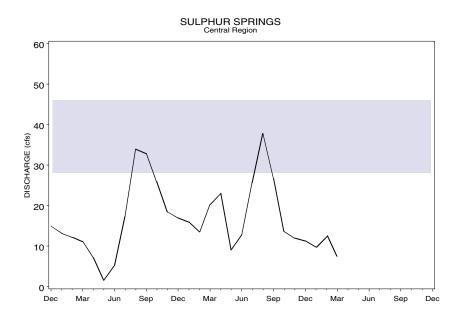


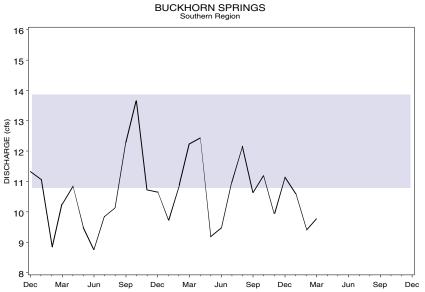


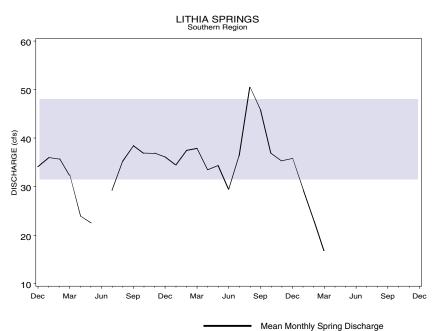


Period-of-Record Interquartile Range (P25-P75)

HYDROGRAPHS OF REGIONAL SPRINGS JANUARY 2007 TO MARCH 2009







Period-of-Record Interquartile Range (P25-P75)

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 March, eleven of the twelve surficial aquifer wells recorded water level decreases compared to last month. Regionally, average surficial aquifer water levels decreased in the northern and central regions of the District by 0.78 and 0.30 foot, respectively. Water levels in the southern region decreased by 0.39 foot. Surficial aquifer water levels decreased District-wide by 0.40 foot.

In March, average water levels in all twelve surficial aquifer wells were lower than March 2008 levels. Average surficial aquifer water levels were lower in the northern and central regions by 2.70 and 1.28 feet, respectively, and lower in the southern region by 0.90 foot. District-wide, average water levels in surficial wells were 1.42 feet lower than March 2008 levels.

At the end of March, water levels were below the normal range in eight of the twelve surficial wells. Average surficial aquifer water levels in the northern and southern regions were below the bottom of the normal range by 1.85 feet and 0.82 foot, respectively. Water levels in the central region were 0.18 foot above the bottom of the normal range. District-wide, the average water level in surficial wells was 0.41 foot below the bottom of the normal range.

SUMMARY OF SURFICIAL AQUIFER LEVELS IN REPRESENTATIVE WELLS, MARCH 2009

NORTHERN COUNTIES	MAR 2009 Elev	FEB 2009 Elev	MAR 2008 Elev	Change From FEB 2009	Change From MAR 2008	MAR Historical Low Normal	MAR Historical High Normal	Departure From Low Normal	Period of Record Low	Record Low Date	Period of Record High	Record High Date
Green Swamp	86.35	87.57	91.27	-1.22	-4.92	89.22	91.27	-2.87	82.95	MAY2000	93.07	SEP1985
Lecanto 2	6.35	6.69	6.82	-0.34	-0.47	7.18	8.98	-0.83	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	89.96	90.32	90.87	-0.36	-0.90	90.55	92.23	-0.59	88.19	AUG2000	95.79	SEP2004
	55.77	56.36	57.14	-0.59	-1.37	56.25	57.84	-0.48	53.39	AUG1992	67.92	MAY1966
	40.58	40.99	41.77	-0.40	-1.18	41.21	41.85	-0.63	39.93	MAY1989	44.05	SEP2001
	130.66	131.26	132.18	-0.60	-1.52	132.30	134.47	-1.64	129.16	FEB2001	136.97	OCT1995
	122.95	122.58	123.46	0.37	-0.51	118.77	123.86	4.18	110.18	FEB1991	129.02	AUG2003
	11.04	11.12	14.45	-0.08	-3.41	10.81	12.24	0.23	9.31	JUN1978	16.30	OCT2006
	97.81	98.21	97.87	-0.40	-0.06	97.62	99.67	0.19	96.07	JUN2001	104.79	SEP2004
SOUTHERN COUNTIES												
Edgeville 4 Shallow	65.50	66.11	67.26	-0.61	-1.76	66.52	68.15	-1.02	63.85	MAY1975	69.93	SEP1971
ROMP 26 Shallow	66.00	66.19	66.57	-0.20	-0.57	67.69	70.30	-1.69	64.32	JUN1999	75.11	JUN1982
SR 74	14.27	14.63	14.64	-0.36	-0.37	14.02	15.31	0.25	12.66	MAY2000	18.32	JUL2001

Intermediate and Floridan Aquifers

In March, 43 of the 51 intermediate and Floridan aquifer wells monitored for this report recorded water level decreases. Regionally, average water levels decreased in the northern and central regions by 0.43 foot and 1.55 feet, respectively. Water levels decreased in the southern region of the District by 3.23 feet. District-wide, the mean water level in the intermediate and Floridan aquifer wells decreased 1.87 feet.

During March, water levels in 48 of the 51 intermediate and Floridan aquifer wells were lower than those measured in March 2008. Regionally, the mean water level in the northern and central regions was 1.59 and 4.26 feet, respectively, lower than March 2008 levels. In the southern region, the mean water level decreased by 8.04 feet. District-wide, average water levels in intermediate and Floridan aquifer wells were 4.94 feet lower than last year.

For March, 45 of the 51 intermediate and Floridan aquifer wells had levels below the normal range, compared to historical monthly levels. Regionally, the average water level in the northern and central regions was 2.04 and 2.05 feet, respectively, below the bottom of the normal range. In the southern region, the average water level was 5.14 feet below the normal range. District-wide, the average water level in intermediate and Floridan aquifer wells was 3.20 feet below the normal range.

SUMMARY OF INTERMEDIATE AND FLORIDAN AQUIFER LEVELS IN REPRESENTATIVE WELLS, MARCH 2009

Regional Summary:

Region	MAR 2009 Mean Elevation	MAR 2009 Relation to POR Median	MAR 2009 Relation to 25th Percentile	MAR 2009 Mean Percentile Rank	FEB 2009 Mean Percentile Rank	MAR 2008 Mean Percentile Rank
Northern Counties	35.68	-2.46	-0.77	16%	10%	26%
Central Counties	50.13	-5.05	-1.98	11%	12%	40%
Southern Counties	20.92	-8.56	-3.58	10%	9%	37%

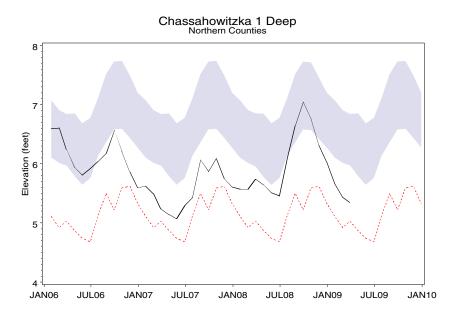
Regional Wells Summary:

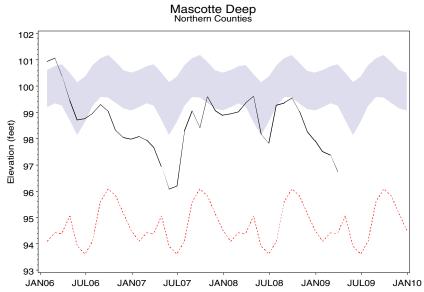
NORTHERN COUNTIES	MAR 2009 Elev	FEB 2009 Elev	MAR 2008 Elev	Change From FEB 2009	Change From MAR 2008	MAR Historical Low Normal	MAR Historical High Normal	Departure From Low Normal	MAR 2009 Percentile Rank	Period of Record Low	Record Low Date	Period of Record High	Record High Date
CE 14 Dunnellon Deep	35.29	36.14	37.75	-0.85	-2.46	37.85	42.93	-2.56	6%	34.14	JUN2001	50.90	MAR1998
Chassahowitzka 1 Deep	5.56	5.40	5.71	0.16	-0.15	5.92	6.86	-0.36	12%	4.68	JUN2001	9.75	SEP2004
Inverness Dot Fldn	25.23	25.85	24.41	-0.62	0.82	28.63	31.15	-3.40	10%	21.63	JUN2001	37.80	OCT1982
Mascotte Deep	96.60	97.34	99.28	-0.74	-2.68	99.12	100.75	-2.52	5%	93.61	JUN2000	102.66	SEP1988
ROMP 103 Suwannee/Ocala	34.74	35.36	36.66	-0.62	-1.92	38.08	43.15	-3.34	1%	33.77	JUL2001	51.03	OCT2004
ROMP 107 Ocala/Avon Park	9.39	9.88	9.77	-0.49	-0.38	11.39	13.72	-2.00	4%	8.05	AUG2007	19.78	NOV1982
ROMP 134 Ocala/Avon Park	43.38	44.10	43.41	-0.72	-0.03	44.06	50.14	-0.68	17%	38.71	JUL2002	57.37	APR1998
ROMP 89 Ocala	86.08	87.43	92.58	-1.35	-6.50	89.78	92.24	-3.70	4%	82.42	JUN2000	94.99	DEC1997
ROMP 97 Avon Park	12.78	13.53	14.52	-0.75	-1.74	15.67	20.47	-2.89	1%	11.88	JUN2001	26.24	SEP2004
ROMP Tr 124 Avon Park	3.04	2.16	3.13	0.88	-0.09	2.52	3.41	0.52	55%	0.77	SEP2004	6.11	AUG1985
ROMP Tr 21-2 Ocala/Avon Pk	2.21	1.25	1.30	0.96	0.91	1.26	1.91	0.95	91%	0.03	FEB2001	4.56	NOV1987
Sumter 13 JC 59 Up Fldn	38.46	38.96	41.59	-0.50	-3.13	40.87	43.47	-2.41	4%	36.84	JUL2007	47.01	JUN2003
Webster City Fldn	77.57	78.26	81.15	-0.69	-3.58	80.35	85.12	-2.78	10%	74.48	JUL1981	88.77	SEP2005
Weeki Wachee Deep	11.36	12.04	12.69	-0.68	-1.33	14.74	18.28	-3.38	1%	10.97	JUL2007	23.91	AUG1984

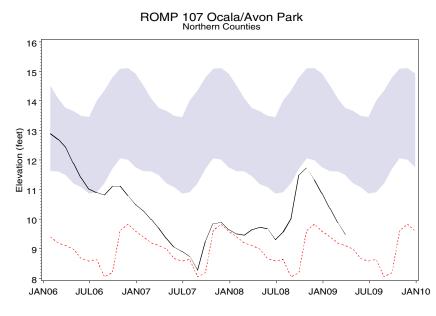
Regional Wells Summary (continued):

•	•	•		Change	Change	MAR	MAR	Departure	MAR				
	MAR	FEB	MAR	From	From	Historical		From	2009	Period of	Record	Period of	Record
	2009	2009	2008	FEB	MAR	Low	High	Low	Percentile	Record	Low	Record	High
CENTRAL COUNTIES	Elev	Elev	Elev	2009	2008	Normal	Normal	Normal	Rank	Low	Date	High	Date
Bexley 2 Fldn	58.57	59.68	61.79	-1.11	-3.22	59.76	62.12	-1.19	8%	56.08	JUN2000	64.07	SEP1988
Hills State Pk Parking Deep	36.14	36.53	39.52	-0.39	-3.38	37.62	40.26	-1.13	3%	35.35	JUN2000	47.42	DEC1997
Lk Alfred Deep nr Lake Alfre	124.52	125.60	125.85	-1.08	-1.33	125.43	128.18	-0.91	14%	119.85	MAY1974	131.62	OCT1960
Lykes Pasco Fldn	60.25	60.92	63.86	-0.67	-3.61	62.23	68.06	-1.98	7%	56.94	JUN2000	74.89	MAR1998
Masaryktown Deep	23.88	24.93	24.56	-1.05	-0.68	29.70	38.22	-1.96 -5.82	7 % 4%	21.89	AUG1994	50.32	SEP1984
Moon Lake Deep	27.48	27.98	28.69	-0.50	-0.00 -1.21	29.70	31.37	-5.62 -1.95	1%	26.15	JUN2000	34.38	MAR1998
Pasco Well 13 nr Drexel Fldn	68.93	69.40	71.63	-0.30	-2.70	71.75	73.87	-2.82	1%	68.00	JUN2001	77.14	JUL1960
Pinellas 665 Fldn	8.25	8.16	9.03	0.09	-2.70	8.83	11.04	-0.58	7%	6.70	MAY2006	14.79	SEP1959
ROMP 45 Avon Park	51.04	57.25	9.03 64.95	-6.21	-0.76 -13.91	51.34	69.46	-0.30	7 % 25%	31.75	MAY1981	84.42	OCT2004
ROMP 50 Avon Park	-3.54	-0.26		-0.21 -3.28	-13.91 -5.55	-2.28	5.45	-0.30 -1.26	25% 19%	-17.09	JAN2005		AUG1982
ROMP 59 Swnn/AvPk	-3.5 4 52.79		2.01									14.95	OCT2004
		58.58	65.84	-5.79	-13.05	52.68	70.16	0.11	26%	33.33	MAY1981	85.92	
ROMP 66 Tampa	15.20	15.98	16.83	-0.78	-1.63	15.35	17.92	-0.15	23%	12.04	JUN1977	24.51	DEC1997
ROMP 87 Avon Park	97.29	98.56	102.18	-1.27	-4.89	100.77	103.72	-3.48	4% 7 0/	94.90	JUN2000	106.30	FEB1998
ROMP 93 Swnn/AvPk	62.52	63.43	65.81	-0.91	-3.29	65.93	73.36	-3.41	7%	59.02	JUN2001	76.60	SEP1982
SR 52 Deep W nr Fivay Jct	49.22	49.80	50.51	-0.58	-1.29	51.72	53.15	-2.50	1%	48.08	JUN2000	56.75	SEP1988
SR 577 Deep	76.13	77.39	84.39	-1.26	-8.26	84.91	92.28	-8.78	3%	72.76	JUN2000	98.51	MAR1998
Sanlon Ranch Fldn	83.30	86.12	90.55	-2.82	-7.25	83.29	94.35	0.01	26%	66.38	MAY1975	105.27	OCT2004
Tarpon Rd Deep	9.13	9.02	9.82	0.11	-0.69	9.51	10.57	-0.38	11%	6.95	MAY2007	13.06	SEP1971
					_								
				Change	Change	$M\Delta R$	MAR	Denarture	MAR				
	MAR	FER	MAR	Change From	Change From	MAR Historical	MAR Historical	Departure From		Period of	Record	Period of	Record
	MAR 2009	FEB	MAR 2008	From	From	Historical	Historical	From	2009	Period of	Record	Period of	Record High
SOLITHERN COUNTIES	2009	2009	2008	From FEB	From MAR	Historical Low	Historical High	From Low	2009 Percentile	Record	Low	Record	High
SOUTHERN COUNTIES				From	From	Historical	Historical	From	2009				
	2009 Elev	2009 Elev	2008 Elev	From FEB 2009	From MAR 2008	Historical Low Normal	Historical High Normal	From Low Normal	2009 Percentile Rank	Record Low	Low Date	Record High	High Date
Big Slough Deep	2009 Elev 29.11	2009 Elev 29.99	2008 Elev 31.13	From FEB 2009 -0.88	From MAR 2008 -2.02	Historical Low Normal	Historical High Normal 33.79	From Low Normal	2009 Percentile Rank	Record Low 26.82	Low Date MAY2006	Record High 36.12	High Date OCT1995
Big Slough Deep Edgeville 3 Deep	2009 Elev 29.11 9.19	2009 Elev 29.99 14.21	2008 Elev 31.13 22.78	From FEB 2009 -0.88 -5.02	From MAR 2008 -2.02 -13.59	Historical Low Normal 31.31 19.78	Historical High Normal 33.79 32.73	From Low Normal -2.20 -10.59	2009 Percentile Rank 1% 2%	Record Low 26.82 1.13	Low Date MAY2006 MAY2000	Record High 36.12 46.40	High Date OCT1995 OCT1965
Big Slough Deep Edgeville 3 Deep Englewood 14 Deep	2009 Elev 29.11 9.19 3.74	2009 Elev 29.99 14.21 4.66	2008 Elev 31.13 22.78 2.79	From FEB 2009 -0.88 -5.02 -0.92	From MAR 2008 -2.02 -13.59 0.95	Historical Low Normal 31.31 19.78 2.37	Historical High Normal 33.79 32.73 5.20	-2.20 -10.59	2009 Percentile Rank 1% 2% 49%	Record Low 26.82 1.13 -0.97	Low Date MAY2006 MAY2000 FEB2001	Record High 36.12 46.40 11.37	High Date OCT1995 OCT1965 SEP1974
Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1	2009 Elev 29.11 9.19 3.74 -3.26	2009 Elev 29.99 14.21 4.66 1.30	2008 Elev 31.13 22.78 2.79 3.58	From FEB 2009 -0.88 -5.02 -0.92 -4.56	-2.02 -13.59 0.95 -6.84	Historical Low Normal 31.31 19.78 2.37 3.95	Historical High Normal 33.79 32.73 5.20 16.16	-2.20 -10.59 1.37 -7.21	2009 Percentile Rank 1% 2% 49% 7%	Record Low 26.82 1.13 -0.97 -15.98	Low Date MAY2006 MAY2000 FEB2001 MAY2006	36.12 46.40 11.37 25.89	High Date OCT1995 OCT1965 SEP1974 SEP1977
Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep	29.11 9.19 3.74 -3.26 -16.82	29.99 14.21 4.66 1.30 -7.23	31.13 22.78 2.79 3.58 3.19	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59	-2.02 -13.59 0.95 -6.84 -20.01	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04	Historical High Normal 33.79 32.73 5.20 16.16 10.94	-2.20 -10.59 1.37 -7.21 -8.78	2009 Percentile Rank 1% 2% 49% 7% 5%	26.82 1.13 -0.97 -15.98 -29.95	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000	Record High 36.12 46.40 11.37 25.89 29.30	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978
Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep	29.11 9.19 3.74 -3.26 -16.82 16.34	29.99 14.21 4.66 1.30 -7.23 16.61	31.13 22.78 2.79 3.58 3.19 17.33	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27	-2.02 -13.59 0.95 -6.84 -20.01 -0.99	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75	-2.20 -10.59 1.37 -7.21 -8.78 -2.32	2009 Percentile Rank 1% 2% 49% 7% 5% 1%	26.82 1.13 -0.97 -15.98 -29.95 14.88	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004	36.12 46.40 11.37 25.89 29.30 22.70	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971
Big Slough Deep Edgeville 3 Deep Englewood 14 Deep Florida Cities Test 1 Kibler Deep Manasota 14 Deep Marshall Deep	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90	29.99 14.21 4.66 1.30 -7.23 16.61 29.33	31.13 22.78 2.79 3.58 3.19 17.33 39.29	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9%	26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24	High Date OCT1995 OCT1965 SEP1974 SEP1977 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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94	31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11%	26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21	High Date OCT1995 OCT1965 SEP1974 SEP1977 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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20	31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28	High Date OCT1995 OCT1965 SEP1974 SEP1977 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 ROMP 28X Swnn/AvPk	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18	31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JAN2001	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68	High Date OCT1995 OCT1965 SEP1974 SEP1977 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 ROMP 30 Swnn/AvPk	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73	31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JUN2000 JUN2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998
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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38 19.35	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73 25.20	31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29 35.39	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35 -5.85	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91 -16.04	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30 27.51	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50 46.41	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92 -8.16	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9% 9%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20 -8.20	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JUN2000 JUN2000 JUN2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52 57.92	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998
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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38 19.35 1.72	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73 25.20 7.47	31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29 35.39 19.04	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35 -5.85 -5.75	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91 -16.04 -17.32	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30 27.51 11.99	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50 46.41 29.20	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92 -8.16 -10.27	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9% 9% 6%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20 -8.20 -17.54	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JAN2001 JUN2000 JUN2000 JUN2000 JUN2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52 57.92 44.72	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1979 OCT1995 MAR1998 MAR1998 FEB1998
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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38 19.35 1.72 81.42	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73 25.20 7.47 82.29	2008 Elev 31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29 35.39 19.04 83.80	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35 -5.85 -5.75 -0.87	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91 -16.04 -17.32 -2.38	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30 27.51 11.99 82.89	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50 46.41 29.20 88.96	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92 -8.16 -10.27 -1.47	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9% 9% 6% 16%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20 -8.20 -17.54 73.61	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JAN2001 JUN2000 JUN2000 JUN2000 MAY1986	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52 57.92 44.72 94.60	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998 FEB1998 MAR1998
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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38 19.35 1.72 81.42 15.42	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73 25.20 7.47 82.29 16.90	2008 Elev 31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29 35.39 19.04 83.80 17.42	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35 -5.85 -5.75 -0.87 -1.48	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91 -16.04 -17.32 -2.38 -2.00	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30 27.51 11.99 82.89 17.23	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50 46.41 29.20 88.96 19.83	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92 -8.16 -10.27 -1.47 -1.81	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9% 9% 6% 16% 3%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20 -8.20 -17.54 73.61 13.26	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JAN2001 JUN2000 JUN2000 JUN2000 MAY1986 JUN2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52 57.92 44.72 94.60 23.00	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998 FEB1998 MAR1998 SEP1983
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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38 19.35 1.72 81.42 15.42 13.61	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73 25.20 7.47 82.29 16.90 15.92	2008 Elev 31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29 35.39 19.04 83.80 17.42 17.45	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35 -5.85 -5.75 -0.87 -1.48 -2.31	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91 -16.04 -17.32 -2.38 -2.00 -3.84	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30 27.51 11.99 82.89 17.23 14.76	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50 46.41 29.20 88.96 19.83 18.52	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92 -8.16 -10.27 -1.47 -1.81 -1.15	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9% 6% 16% 3% 10%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20 -8.20 -17.54 73.61 13.26 10.08	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JAN2001 JUN2000 JUN2000 JUN2000 MAY1986 JUN2000 JUN2000 JUN2000 JUN2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52 57.92 44.72 94.60 23.00 23.56	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998 FEB1998 MAR1998 SEP1983 SEP2003
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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38 19.35 1.72 81.42 15.42 13.61 2.02	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73 25.20 7.47 82.29 16.90 15.92 5.44	2008 Elev 31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29 35.39 19.04 83.80 17.42 17.45 5.43	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35 -5.85 -5.75 -0.87 -1.48 -2.31 -3.42	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91 -16.04 -17.32 -2.38 -2.00 -3.84 -3.41	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30 27.51 11.99 82.89 17.23 14.76 6.51	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50 46.41 29.20 88.96 19.83 18.52 10.88	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92 -8.16 -10.27 -1.47 -1.81 -1.15 -4.49	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9% 6% 16% 3% 10% 1%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20 -8.20 -17.54 73.61 13.26 10.08 0.39	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JAN2001 JUN2000 JUN2000 JUN2000 MAY1986 JUN2000 JUN2000 MAY2000 MAY2000 MAY2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52 57.92 44.72 94.60 23.00 23.56 19.31	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998 FEB1998 MAR1998 SEP1983 SEP2003 SEP1979
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	29.11 9.19 3.74 -3.26 -16.82 16.34 28.90 42.43 35.52 66.18 24.38 19.35 1.72 81.42 15.42 13.61	29.99 14.21 4.66 1.30 -7.23 16.61 29.33 41.94 35.20 66.18 29.73 25.20 7.47 82.29 16.90 15.92	2008 Elev 31.13 22.78 2.79 3.58 3.19 17.33 39.29 46.68 43.30 68.04 40.29 35.39 19.04 83.80 17.42 17.45	From FEB 2009 -0.88 -5.02 -0.92 -4.56 -9.59 -0.27 -0.43 0.49 0.32 0.00 -5.35 -5.85 -5.75 -0.87 -1.48 -2.31	-2.02 -13.59 0.95 -6.84 -20.01 -0.99 -10.39 -4.25 -7.78 -1.86 -15.91 -16.04 -17.32 -2.38 -2.00 -3.84	Historical Low Normal 31.31 19.78 2.37 3.95 -8.04 18.66 34.54 44.48 39.16 65.83 32.30 27.51 11.99 82.89 17.23 14.76	Historical High Normal 33.79 32.73 5.20 16.16 10.94 20.75 46.84 48.80 47.09 69.55 50.50 46.41 29.20 88.96 19.83 18.52	-2.20 -10.59 1.37 -7.21 -8.78 -2.32 -5.64 -2.05 -3.64 0.35 -7.92 -8.16 -10.27 -1.47 -1.81 -1.15	2009 Percentile Rank 1% 2% 49% 7% 5% 1% 9% 11% 10% 30% 9% 6% 16% 3% 10%	Record Low 26.82 1.13 -0.97 -15.98 -29.95 14.88 8.96 28.94 19.62 58.40 -0.20 -8.20 -17.54 73.61 13.26 10.08	Low Date MAY2006 MAY2000 FEB2001 MAY2006 MAY2000 JUL2004 JUN2000 JAN2001 JAN2001 JAN2001 JUN2000 JUN2000 JUN2000 MAY1986 JUN2000 JUN2000 JUN2000 JUN2000	Record High 36.12 46.40 11.37 25.89 29.30 22.70 55.24 51.21 51.28 74.68 60.52 57.92 44.72 94.60 23.00 23.56	High Date OCT1995 OCT1965 SEP1974 SEP1977 AUG1978 NOV1971 MAR1964 SEP1995 OCT1979 OCT1995 MAR1998 MAR1998 FEB1998 MAR1998 SEP1983 SEP2003

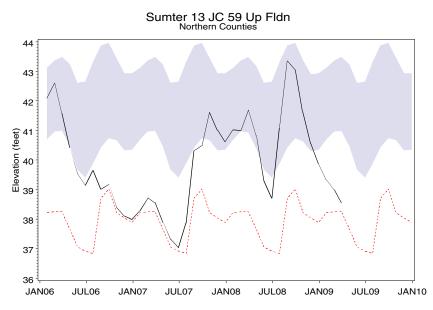
POR Monthly Low



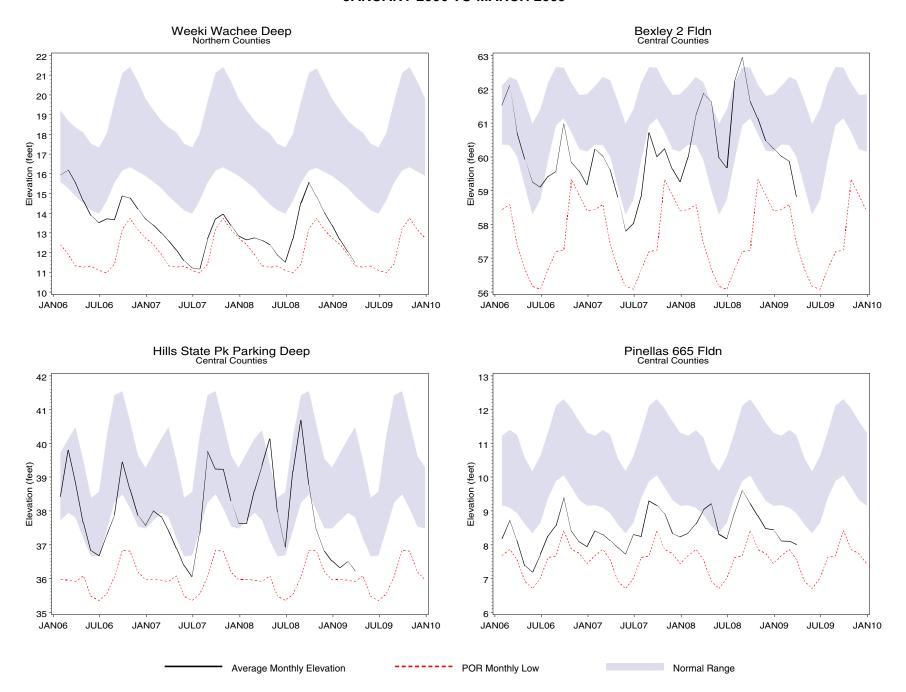


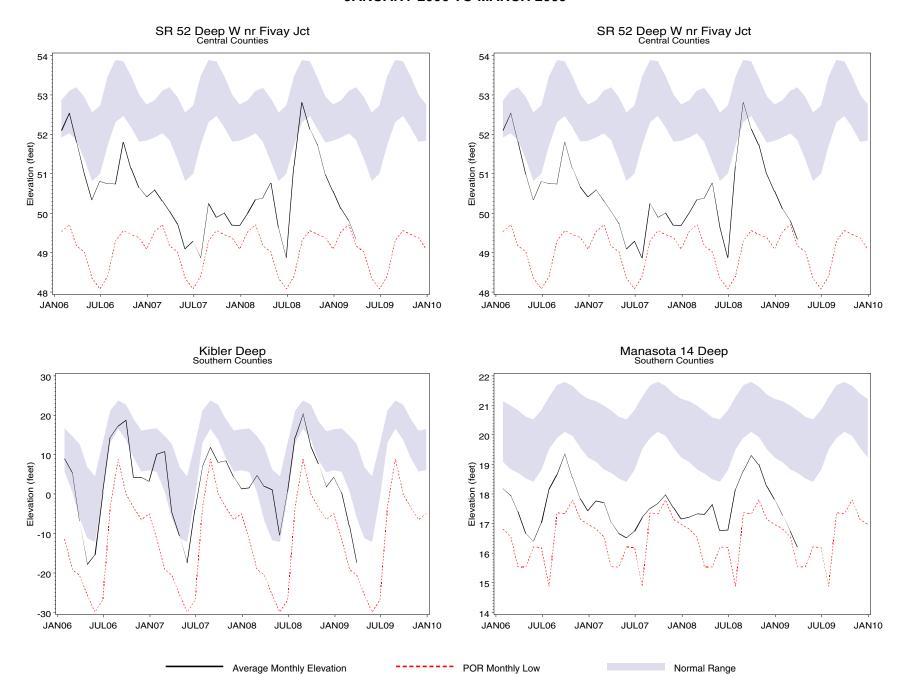


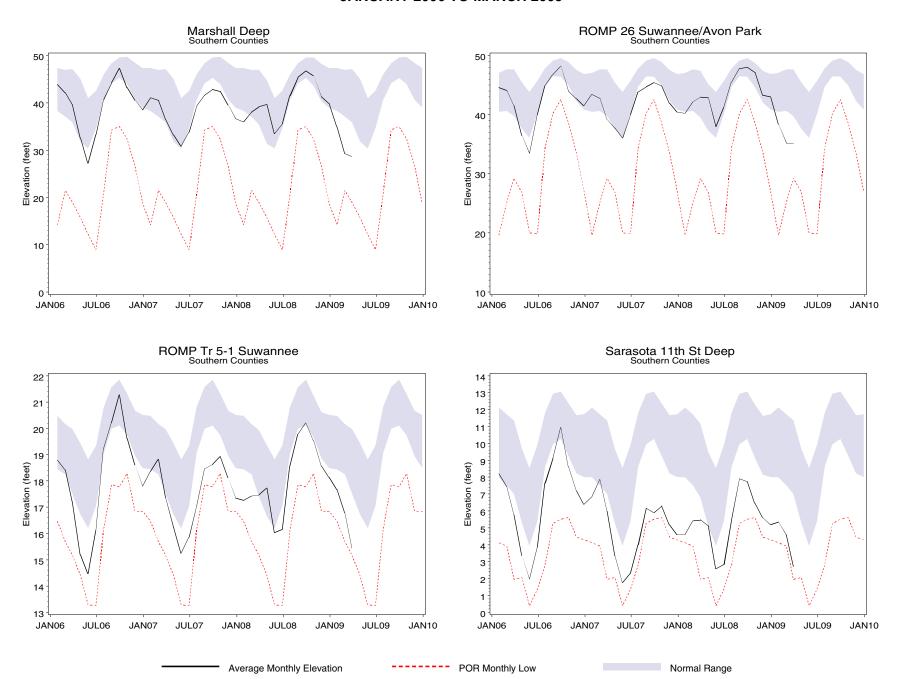
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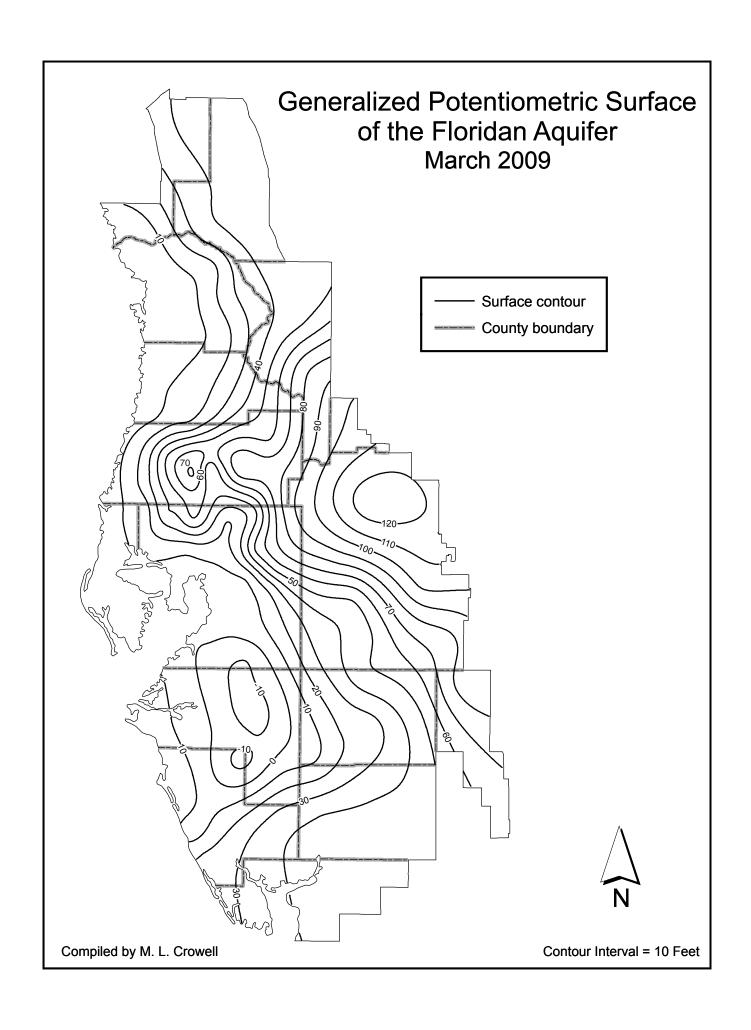


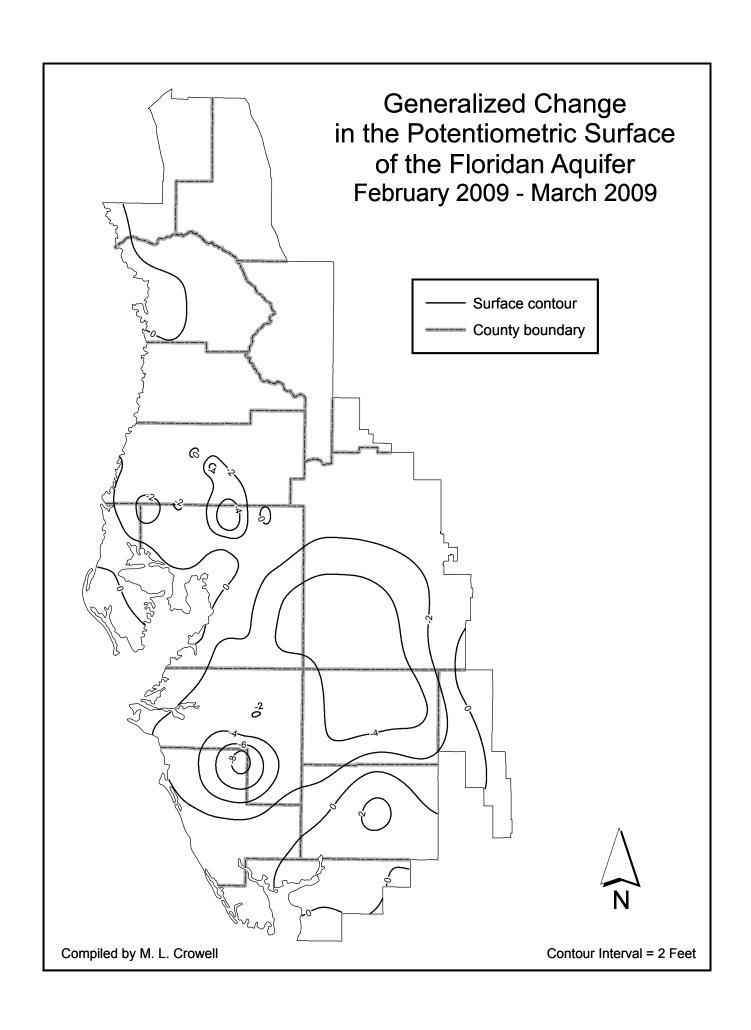
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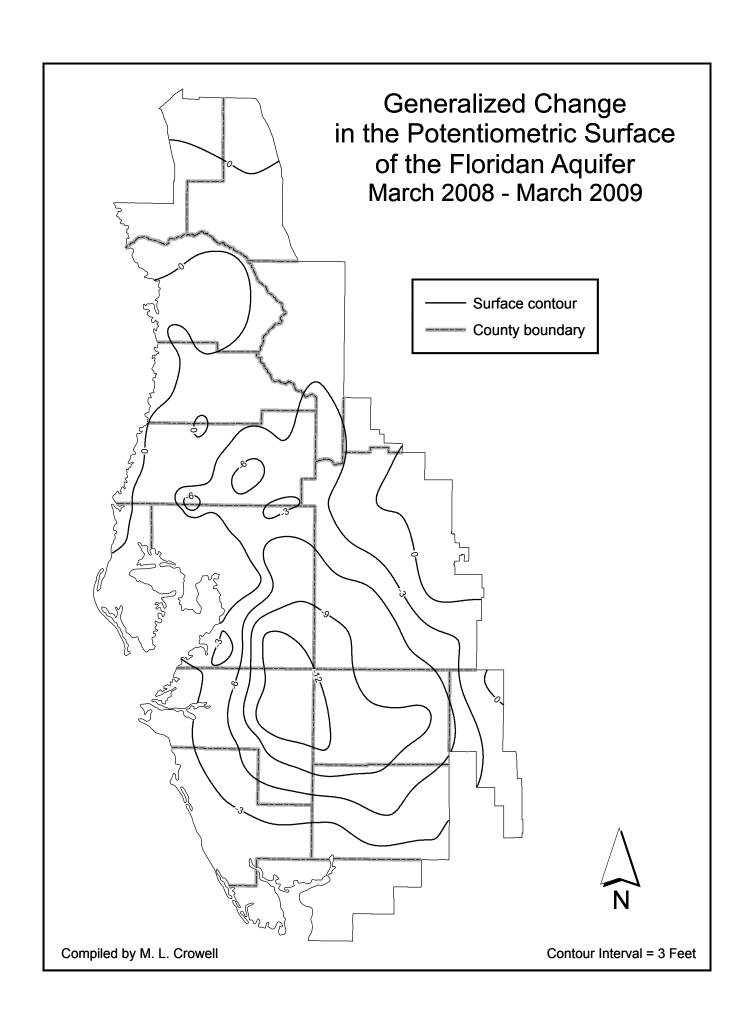












Public Supply Wellfields

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 March, average water levels decreased in all twelve intermediate and Floridan wells and eight of the nine surficial wells. Average water levels measured in the intermediate and Floridan wells decreased 2.86 feet, while levels measured in surficial wells decreased 0.56 foot.

In March, average water levels in eleven of the twelve intermediate and Floridan wells and eight of the nine surficial wells were below those measured in March 2008. Water levels measured in the intermediate and Floridan wells averaged 6.24 feet below last year's levels, while surficial water levels averaged 2.06 feet below March 2008 levels.

At the end of March, average water levels in nine of the twelve intermediate and Floridan wells and three of the nine surficial wells were above the low normal level, compared to historical monthly levels. Water levels measured in the intermediate and Floridan wells averaged 0.20 foot above the base of the normal range, while levels in the surficial wells averaged 0.27 foot below the base of the normal range.

SUMMARY OF GROUNDWATER LEVELS IN REPRESENTATIVE WELLFIELD WELLS, MARCH 2009

INT/FLORIDAN WELLS	MAR 2009 Elev	FEB 2009 Elev	MAR 2008 Elev	Change From FEB 2009	Change From MAR 2008	MAR Historical Low Normal	MAR 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	22.57	22.84	25.95	-0.27	-3.39	21.90	26.58	0.67	10.94	MAY2000	33.51	OCT1979
Cross Bar WRW	40.16	40.62	39.53	-0.46	0.63	40.13	53.13	0.02	33.88	DEC1993	61.65	AUG1984
Cypress Crk TMR-1 Deep	50.19	51.80	57.85	-1.61	-7.67	48.29	62.35	1.90	36.93	FEB2001	70.78	JUN1976
Cypress Crk TMR-3 Deep	47.87	49.81	55.81	-1.94	-7.94	47.77	57.68	0.10	34.22	FEB2001	68.79	JUL1976
Eldridge-Wilde 11 Deep	10.55	13.81	16.47	-3.26	-5.92	7.76	12.94	2.79	0.31	SEP1990	24.17	SEP2004
Eldridge-Wilde 2S	14.01	16.42	18.81	-2.41	-4.80	8.12	15.08	5.89	-1.16	JUN2000	25.24	OCT1982
Morris Bridge 3A Deep	21.42	24.13	29.66	-2.70	-8.24	26.23	32.52	-4.81	19.34	MAR1985	36.99	DEC1997
Section 21 Hills 13 Deep	36.54	39.23	39.48	-2.69	-2.94	34.37	42.89	2.17	21.88	JUN2002	52.08	JUL1944
South Pasco 42	41.96	47.72	51.33	-5.76	-9.37	40.65	47.54	1.31	27.98	MAY2002	56.79	SEP2003
South Pasco SR 54 Deep	45.50	50.20	53.28	-4.70	-7.78	45.01	52.68	0.49	33.49	MAY2002	57.94	SEP2003
Starkey Regional	29.98	30.82	32.27	-0.84	-2.30	30.02	33.81	-0.04	0.04	DEC2007	37.55	SEP2004
Verna 08	-11.18	-3.53	3.95	-7.65	-15.13	-3.09	10.03	-8.09	-24.32	MAY1989	26.68	FEB1998
SURFICIAL WELLS												
Cosme-Odessa IC-6	34.29	34.52	36.47	-0.23	-2.18	35.18	37.48	-0.89	31.91	JUL1973	42.72	SEP1988
Cross Bar SERW	58.22	58.88	58.09	-0.66	0.13	58.37	68.40	-0.15	53.09	JUL1994	72.53	JUL1984
Cypress Crk TMR-1 Shallow	50.50	51.93	57.82	-1.43	-7.32	54.25	62.58	-3.75	40.07	JUN2001	69.46	FEB1977
Cypress Crk TMR-3 Shallow	53.76	53.76	54.03	0.00	-0.27	54.03	62.41	-0.27	53.55	MAY1997	64.80	JUN2003
Eldridge-Wilde 11 Shallow	19.95	20.83	21.10	-0.88	-1.15	16.16	21.59	3.79	10.77	JUN1994	29.34	SEP2004
Morris Bridge 3A Shallow	26.02	26.48	32.02	-0.46	-6.00	29.47	34.86	-3.45	24.50	APR1985	39.20	DEC1997
Section 21 Hills 13 Shallow	42.40	43.09	43.62	-0.69	-1.22	40.10	49.35	2.30	33.81	MAY2001	53.78	SEP1979
South Pasco SR 54 Shallow	57.26	57.58	57.73	-0.32	-0.47	56.79	58.77	0.47	54.43	OCT1980	60.49	SEP1998
Starkey 707	25.23	25.59	25.29	-0.36	-0.06	25.74	29.32	-0.51	22.70	JUN2000	33.85	MAR1998

Aquifer Resource Index

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

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

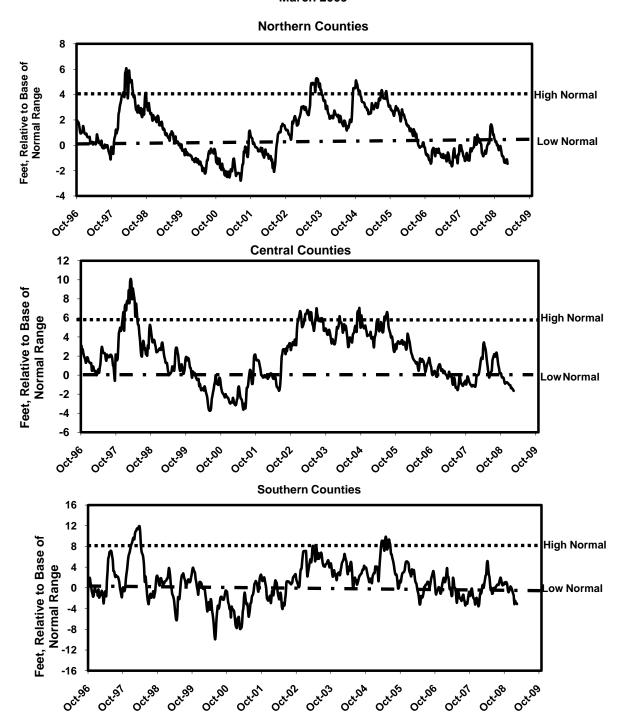
To determine the ARI value for a geographic area, each well is compared to its respective low-normal value weekly, and the difference is calculated. The weekly differences are used to determine the regional ARI value, with the resulting regional value indicating how far water levels in the aquifer have 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
03/02/2009	-0.95	-1.69	-4.00
03/09/2009	-1.41	-1.96	-3.96
03/16/2009	-1.13	-2.21	-4.21
03/23/2009	-2.04	-2.20	-4.25
03/30/2009	-0.77	-1.98	-3.58

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

AQUIFER RESOURCE INDEX* March 2009



^{*}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 third 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 RESERVOIR - PEACE RIVER/MANASOTA REGIONAL WATER

SUPPLY AUTHORITY (Peace River Basin): The Peace River facility is an off-stream reservoir. Unlike other utilities, the daily river water pumpage is not a reflection of daily water consumed by the public. Built in 1980, the PRMRWSA facility ranks sixth in total volume storage, and supplies water to Charlotte County, City of North Port, and DeSoto County. While all of the available water produced for public supply comes from the Peace River, they have by far the most complicated system for insuring adequate supply throughout the year. The facility also uses an aquifer storage recovery (ASR) system for storing treated water pumped from the river. The current permit restrictions on the PRMRWSA facility state that they may not withdraw water from the Peace River if the river gauging station at Arcadia has declined below pre-established monthly levels. Also, withdrawals may not exceed 10 percent of the preceding day's flow level as calculated at the Peace River Arcadia gauge station. To the greatest extent possible, the PRMRWSA fills its reservoir and ASR facilities to full capacity to insure water is available during times they are not permitted to withdraw from the Peace River. The total size of the reservoir is approximately 85 acres and is 31 feet deep. Total storage capacity is approximately 625 mg. Average and maximum permitted withdrawal amounts from the Peace River are 32.7 and 90.0 mgd, respectively. The Peace River reservoir and ASR system are both permitted for an average withdrawal of 32.7 mgd. The minimum producible level is 8.00 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 fourth 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 fifth 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 six 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 March, all six reservoirs monitored for this report recorded average water-level decreases compared to last month. The Evers, Hillsborough River, Lake Manatee and Shell Creek reservoirs posted average water level decreases of 0.40, 0.36, 0.20, and 0.08 foot, respectively. The Bill Young and Peace River reservoirs posted water-level decreases of 5.30 and 1.63 feet, respectively.

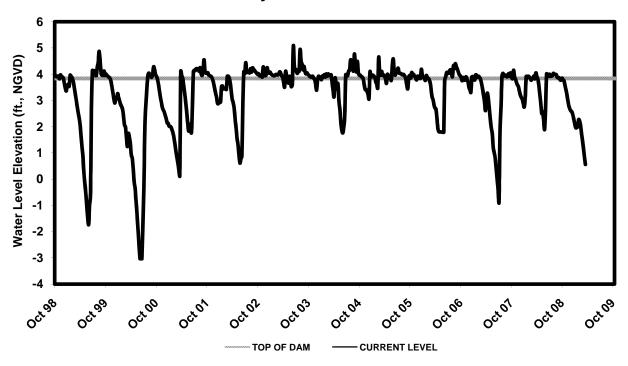
SUMMARY OF WATER LEVELS IN WATER SUPPLY RESERVOIRS (ELEVATION IN FEET, NGVD)

RESERVOIR	2009 February	2009 March	2008 March	Change from Prior Month	Change from Prior Year
Evers					
City of Bradenton	2.14	1.74	3.84	-0.40	-2.10
Hillsborough					
City of Tampa	20.51	20.15	22.57	-0.36	-2.42
Lake Manatee					
Manatee County	37.81	37.61	38.97	-0.20	-1.36
•					
C.W. Bill Young Regional					
Tampa Bay Water	82.62	77.32	114.24	-5.30	-36.92
Peace River					
PRMRWSA	23.43	21.80	26.72	-1.63	-4.92
Shell Creek					
City of Punta Gorda	5.05	4.97	5.06	-0.08	-0.09

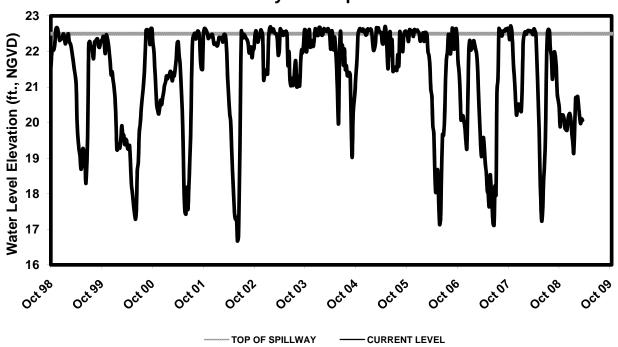
NGVD - National Geodetic Vertical Datum Reported data are provisional and subject to revision.

Compiled by Pam Green

EVERS RESERVOIR City of Bradenton

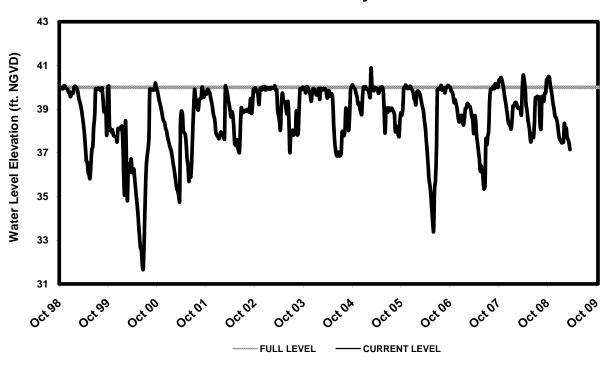


HILLSBOROUGH RESERVOIR City of Tampa

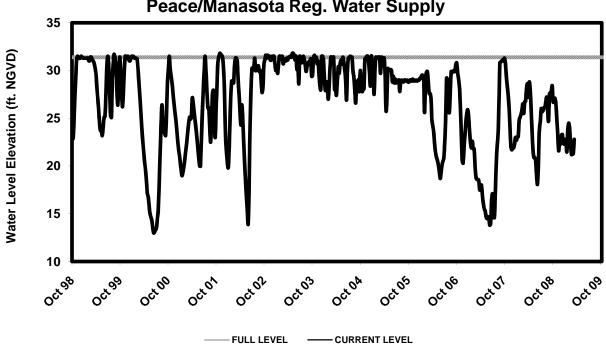


Compiled by Pam Green

LAKE MANATEE RESERVOIR Manatee County

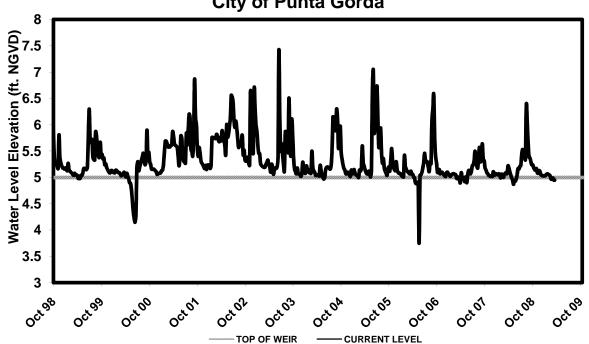


PEACE RIVER RESERVOIR Peace/Manasota Reg. Water Supply

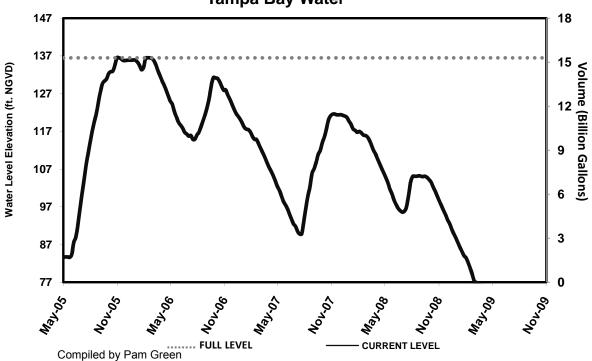


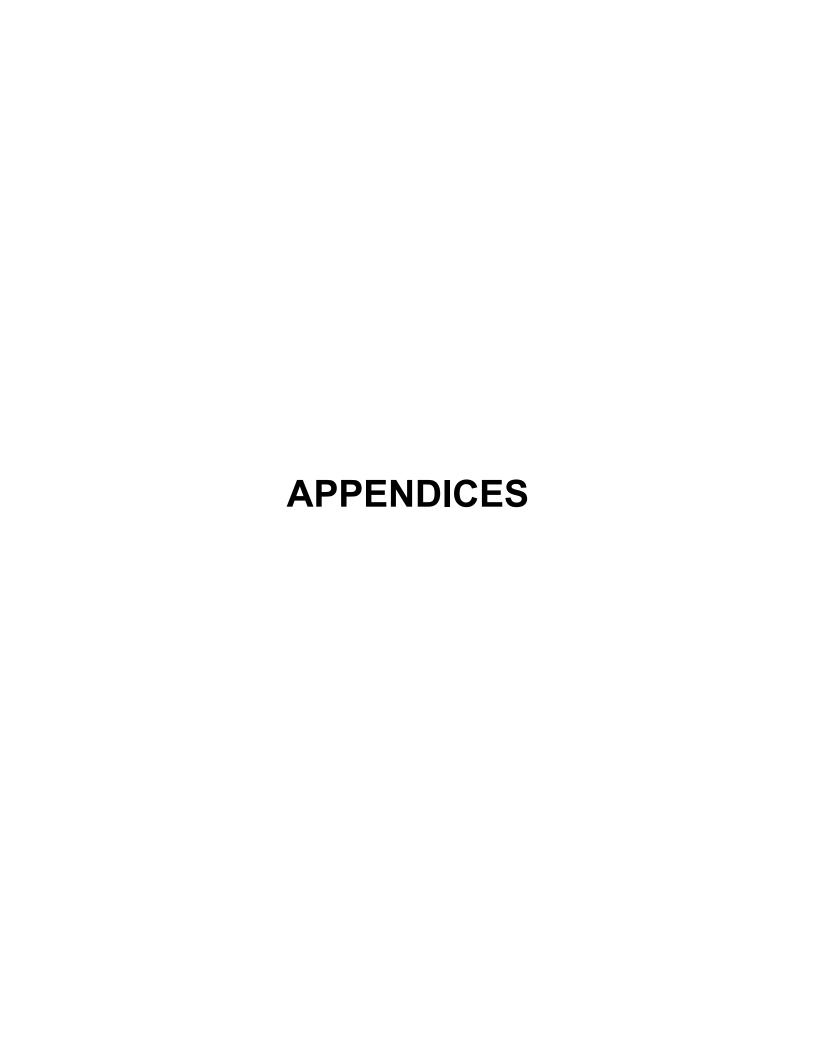
Compiled by Pam Green

SHELL CREEK RESERVOIR City of Punta Gorda



C.W. BILL YOUNG REGIONAL RESERVOIR Tampa Bay Water





Rainfall percentiles by interval and region, inches.

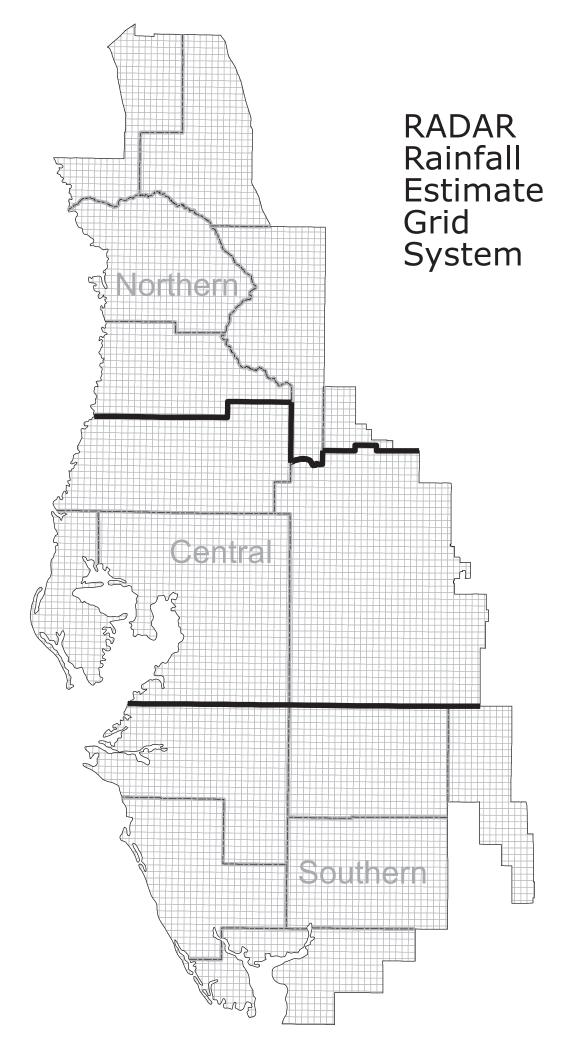
Rainfall percentile	es by interval and			Al-	Al-	T 46
		10 TH	25 th	50 th	75 th	90 th
Rainfall Interval	Region	Percentile (P10)	Percentile (P25)	Percentile (P50)	Percentile (P75)	Percentile (P90)
Annual total	Northern	43.19	48.35	54.01	58.86	63.46
Annual total	Central	41.45	46.10	52.16	57.28	63.82
Annual total	Southern	42.05	46.25	52.10 52.19	57.82	63.43
Annual total	District	42.05 43.12	40.23 47.22	52.19	57.62 57.46	62.83
Dry season total	Northern	15.27 13.32	18.42	23.79	28.72	32.10
Dry season total	Central		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	9.72	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	10.49
September total	Northern	2.79	4.18	5.84	8.04	11.35
		2.79 3.19				
September total	Central		5.11 5.46	6.46 6.04	8.50	11.69 11.85
September total	Southern	4.30	5.46 5.21	6.94 6.53	9.33	11.85 11.65
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	0.69	1.39	2.61	4.03	6.13
October total	Southern	0.92	1.78	2.73	4.27	6.04
October total	District	1.06	1.57	2.80	4.15	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

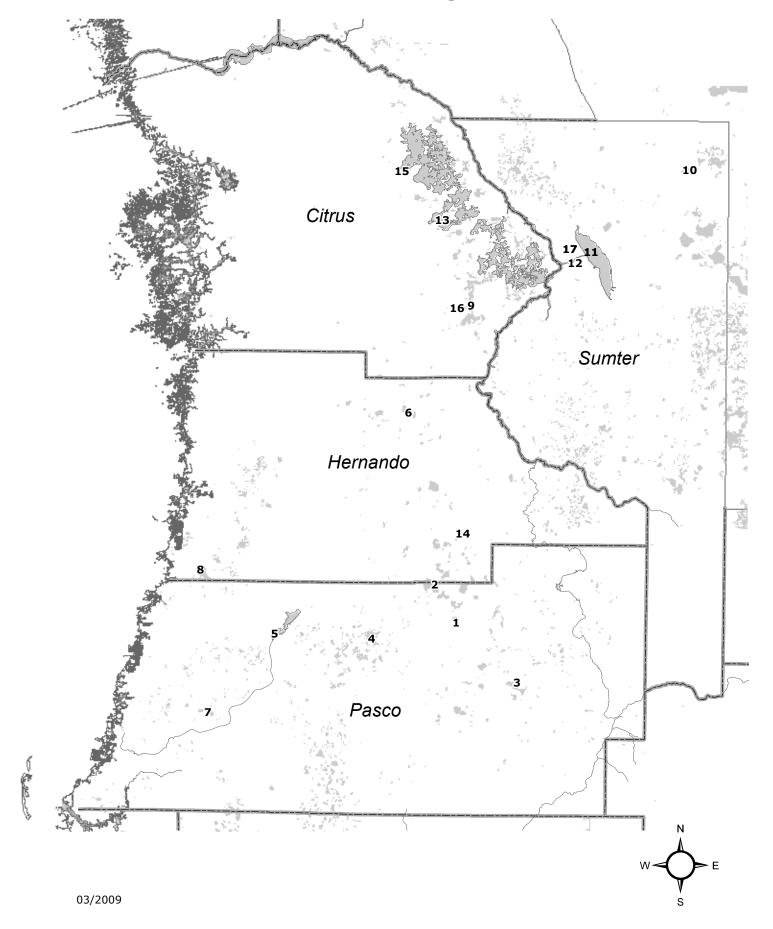
Rainfall characterization ranges

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

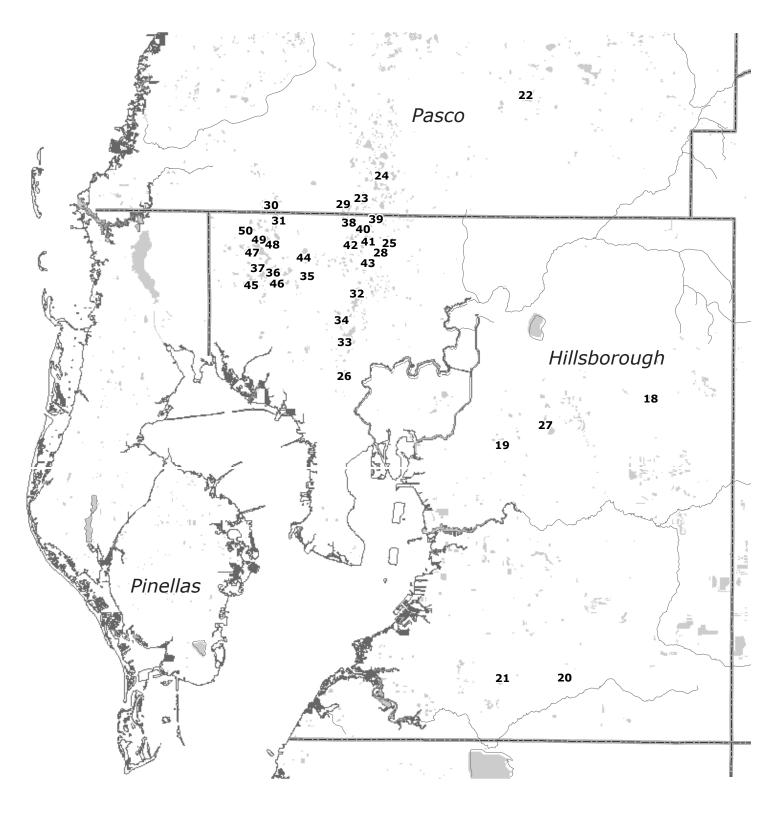




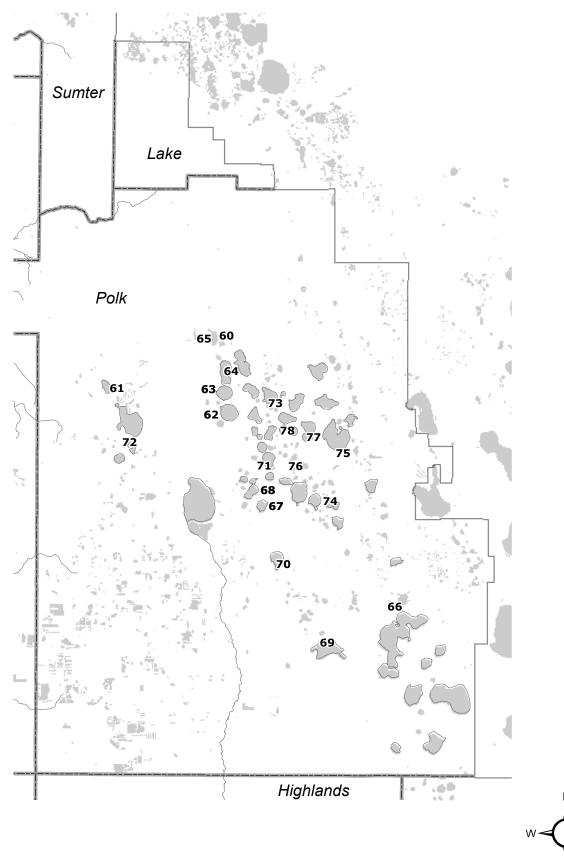
Selected Lake Monitoring Stations Northern Region



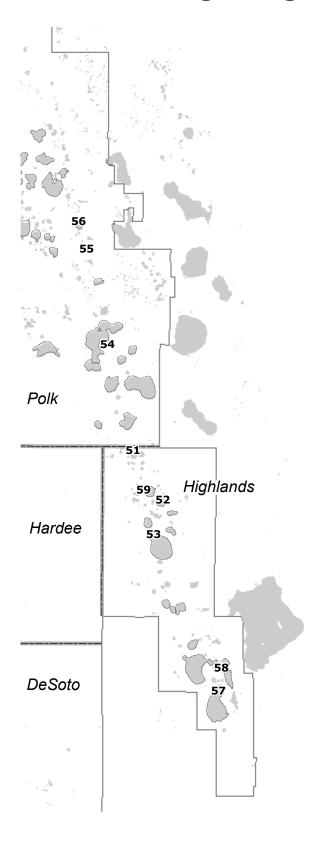
Selected Lake Monitoring Stations Tampa Bay Region



Selected Lake Monitoring Stations Polk Uplands Region



Selected Lake Monitoring Stations Lake Wales Ridge Region





Selected Lake Monitoring Stations

Northern Region

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

Tampa Bay Region

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

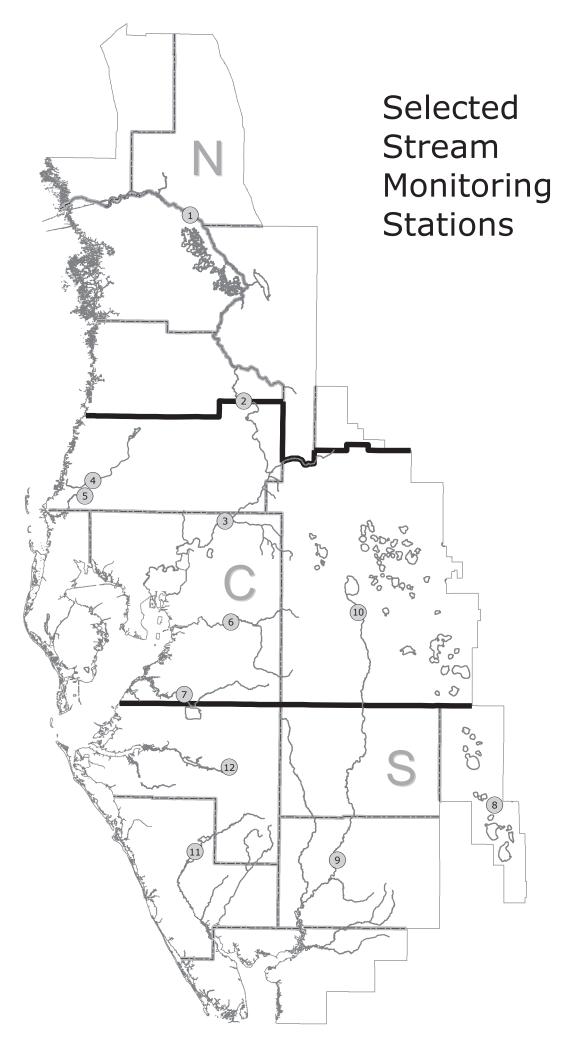
Selected Lake Monitoring Stations

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

<u>Map ID</u>	Site Name
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: 2.11 inches

Max of monthly avg discharge: 329.4 cfs in 09/1988

Min of monthly avg discharge: 0.0 cfs

Drainage area: 180 square miles

ALAFIA RIVER (Southern 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

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

LITTLE MANATEE RIVER (Southern Region)

Total length: 39 miles

Headwaters: Southeast Hillsborough County

Tributaries: Carlton Branch, the South Fork, Dug Creek and Cypress Creek.

Elevation: 130 feet

Mouth: Tampa Bay

Average fall: 3.4 feet/mile

Drainage area: 225 square miles

Wimauma Station:

County: Hillsborough

Period-of-record: 1939

Location: 15 miles upstream from mouth

Avg daily discharge: 171.4 cfs Runoff per year: 15.68 inches

Max of monthly avg discharge: 1443.7 cfs in 07/1945 Min of monthly avg discharge: 3.8 cfs in 05/45

Drainage area: 149 square miles

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 (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:

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:

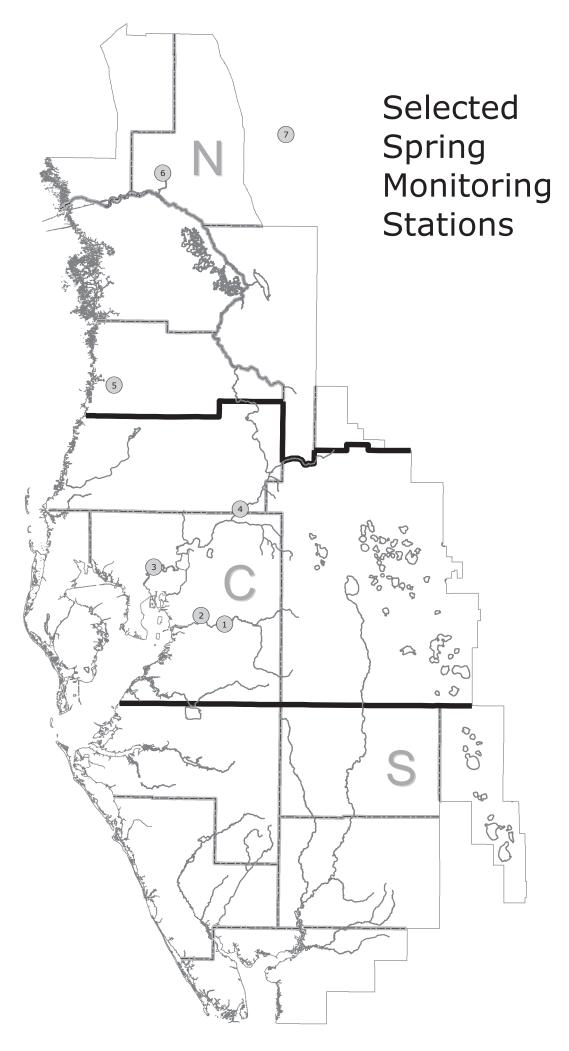
County: Polk Period-of-record: 1939

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

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

SPRINGS MONITORING STATIONS

RAINBOW SPRINGS (Northern Region)

County: Marion

Basin: Withlacoochee River

Magnitude: 1^S

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

Public Access: Yes Period-of-record: 1965

Gage: Non-recording gage
Maximum daily mean: 1061 cfs in 09/1988
Minimum daily mean: 489 cfs in 06/2000

SILVER SPRINGS (Northern Region)

County: Marion

Basin: Ocklawaha River

Magnitude: 1ST

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

springs

Discharge contributes to: Silver Springs River, Ocklawaha River,

St. Johns River

Public Access: Yes Period-of-record: 1932

Gage: Water-stage recorder
Maximum daily mean: 1290 cfs in 10/1960
Minimum daily mean: 432 cfs in 07/2000

WEEKI WACHEE SPRINGS (Northern Region)

County: Hernando
Basin: Coastal Rivers

Magnitude: 1^{S1}

Discharge measurement location: 1 mi downstream from head of springs

Discharge contributes to: Weeki Wachee River

Public Access: Yes Period-of-record: 1993

Gage: Water-stage

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

CRYSTAL SPRINGS (Central Region)

County: Pasco

Basin: Hillsborough River

Magnitude: 2^{nc}

Discharge measurement location: Difference between discharge

measurements of Hillsborough River made upstream from and downstream

from Crystal Springs

Discharge contributes to: Hillsborough River

Public Access: No Period-of-record: 1923

Gage: Non-recording gage
Maximum daily mean: 147 cfs in 07/1941
Minimum daily mean: 22 cfs in 08/1986

SULPHUR SPRINGS (Central Region)

County: Hillsborough Basin: Hillsborough River

Magnitude: 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 (Southern Region)

County: Hillsborough Basin: Alafia River

Magnitude: 2ⁿ

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: (Southern Region)

County: Hillsborough Basin: Alafia River

Magnitude: 2^{no}

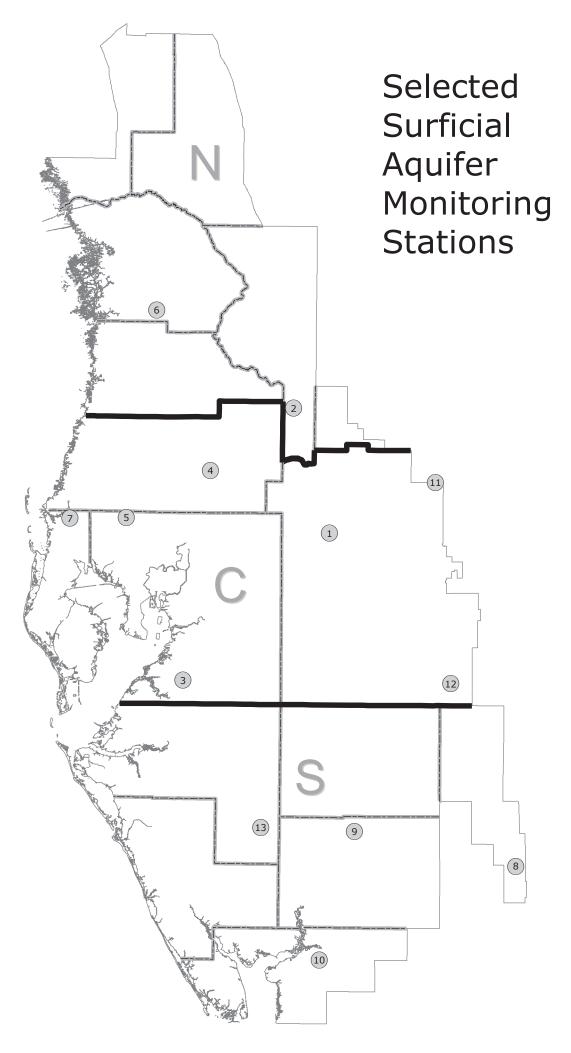
Discharge measurement location: 50 feet downstream from main pool

Discharge contributes to:

Alafia River

Public Access: Yes Period-of-record: 1934

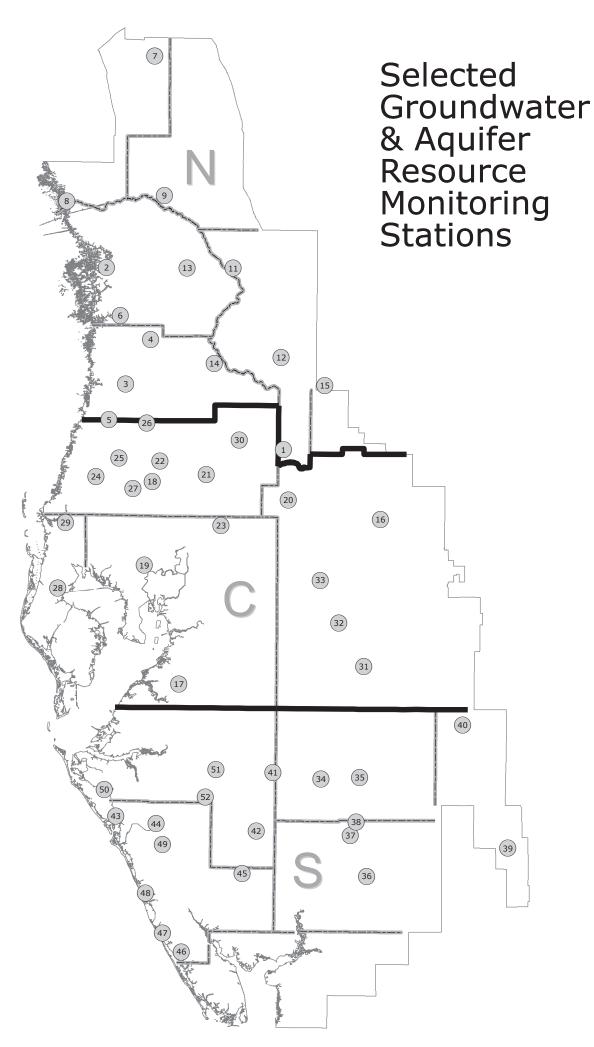
Gage: Water-stage recorder
Maximum daily mean: 83.4 cfs in 10/1967
Minimum daily mean: 6.3 cfs in 02/1989





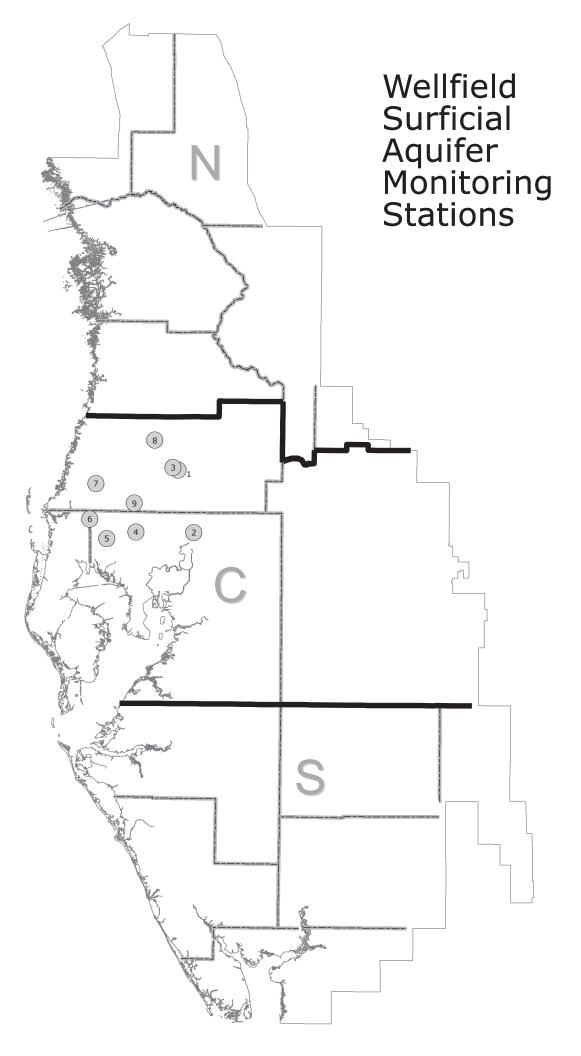
Selected Surficial Aquifer Monitoring Stations

<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

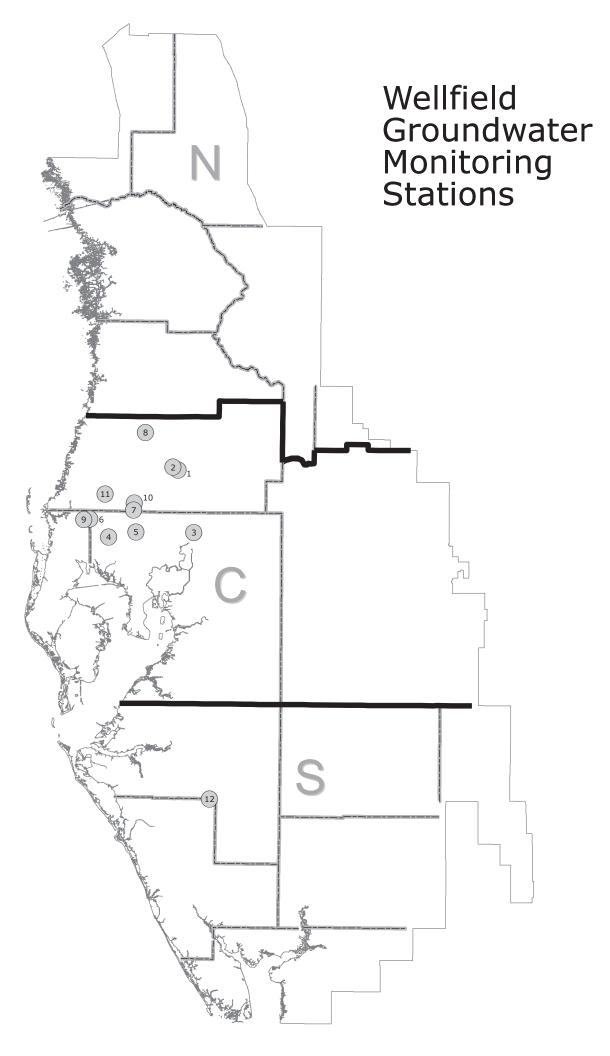


Selected Groundwater & Aquifer Resource Monitoring Stations

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		p
11	Sumter 13 JC 59 Upper Floridan		
12	Webster City Floridan		
13	Inverness DOT Floridan		
14	ROMP 103 Suwannee/Ocala		
15	Mascotte Deep		
16	Lake Alfred Deep near Lake		
	Alfred		
17	ROMP 50 Avon Park		
18	Pasco 13 Floridan near Drexel		
19	ROMP 66 Tampa		
20	ROMP 87 Avon Park		
21	State Road 577 Deep		
22	ROMP 93 Suwannee/Avon Park		
23	Hillsborough River State Park		
	Parking Lot Deep		
24	Moon Lake Deep		
25	State Road 52 Deep West near		
	Fivay Junction		
26	Masaryktown Deep		
27	Bexley 2 Floridan		
28	Pinellas 665 Floridan		
29	Tarpon Road Deep		
30	Lykes Pasco Floridan		
31	ROMP 45 Avon Park		
32	ROMP 59 Suwannee/Avon Park		
33	Sanlon Ranch Floridan		
34	ROMP 31 Suwannee/Avon Park		
35	ROMP 30 Suwannee/Avon Park		
36	ROMP 16 Ocala		
37	ROMP 26 Suwannee/Avon Park		
38	Marshall Deep		
39	ROMP 28X Suwannee/Avon		
	Park		
40	ROMP 43XX Avon Park		
41	ROMP 32 Lower Ocala/Avon		
	Park		
42	Edgeville 3 Deep		







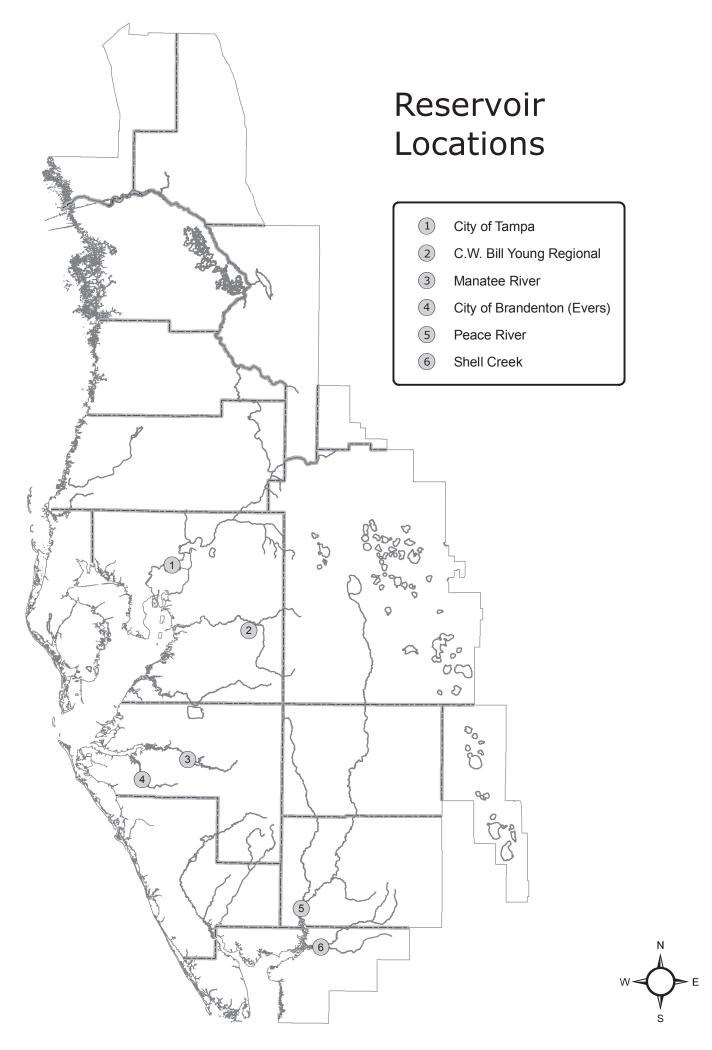


Wellfield Groundwater Monitoring Stations

<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



ERRATA SHEET

On page 22 of the February 2009 Hydrologic Conditions Report, in the table titled "Summary of Streamflow Measurements In Major Streams," mean discharge values regarding the Anclote River near Elfers monitoring station, for January 2009 and February 2009, have been changed to 2.9 cfs and 2.2 cfs, respectively. These values were revised based on adjusted streamflow data from the U.S.Geological Survey.