

Hydrologic Conditions

for the month of

June 2010

Prepared by the
Hydrologic Data Section
Operations Department



July 27, 2010

<http://www.watermatters.org>

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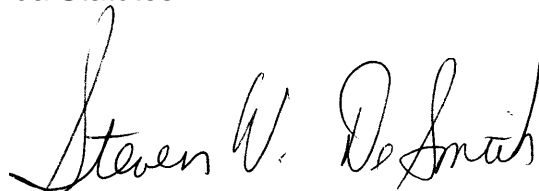
INTRODUCTION

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

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

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

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



Registration #PG-1704



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 July 20, 2010

Provisional rainfall totals are provided for the period of July 1, 2010 through July 19, 2010. The northern region has received an average of 3.80 inches, while the historic mean for the month of July is 8.25 inches. The central region has received an average of 4.79 inches, while the historic mean for the central region for July is 8.18 inches. The southern region has received 4.05 inches, while the historic mean for the southern region for July is 8.21 inches.

Provisional lake level data indicate that during the first 19 days of July, regional water levels have increased in all four regions of the District compared to last month. Average lake levels in the Northern region increased an average of 0.05 foot and were 3.60 feet below the base of the normal range. Lake levels in the Tampa Bay region increased an average of 0.14 foot and were 0.63 foot above the base of the normal range. Lake levels in the Polk Uplands region increased 0.35 foot and were 1.15 feet below the base of the normal range. The Lake Wales Ridge region posted an average increase of 0.47 foot and was 4.02 feet below the base of the normal range.

As of July 19, 2010, average streamflow increased in all three regions of the District compared to last month's data from regional index streams. The average streamflow for the Withlacoochee River near Holder in the northern region was in the normal range at the 36th percentile. The average streamflow measured at the Hillsborough River near Zephyrhills in the central region was in the normal range at the 47th percentile, while the Peace River at Arcadia in the southern region was within the normal range at the 70th percentile.

Provisional groundwater data, as of July 19, 2010, indicate that levels in the intermediate and Floridan aquifers were within the normal range in all three regions of the District. The normal range is defined as between the 25th and 75th percentiles. The groundwater level in the northern region was at the 39th percentile. The groundwater level in the central region was at the 60th percentile, while the southern region was at the 43rd percentile.

EXECUTIVE SUMMARY

Hydrologic Conditions for June 2010

In June, average rainfall totals for all three regions of the District were within the normal range. The normal range for rainfall is defined by totals that fall on or between the 25th to 75th percentiles of the historical monthly accumulation for each region and where the 50th percentile represents the historical median. The northern region received an average of 5.54 inches of rainfall, equivalent to the 27th percentile of the historical June record. The central region received an average of 5.98 inches of rainfall, equivalent to the 43rd percentile, while the southern region received an average of 6.13 inches of rainfall, equivalent to the 32nd percentile of the historical June record. The District-wide rainfall average of 5.92 inches was equivalent to the 29th percentile of the historical June record.

During the 12-month period from July 1, 2009 through June 30, 2010, the average rainfall totals in all three regions of the District were classified as "normal." The northern region received an average of 54.42 inches of rainfall, equivalent to the 53rd percentile of the historical annual record. The central region received an average of 54.58 inches of rainfall, equivalent to the 62nd percentile, while the southern region received an average of 52.93 inches of rainfall, equivalent to the 52nd percentile. The District-wide rainfall average of 53.96 inches was equivalent to the 57th percentile of the historical annual record.

Average lake levels in June were below the annual normal range in the Northern, Polk Uplands and Lake Wales Ridge regions of the District, while they were within the normal range in the Tampa Bay region. Normal lake levels are defined as levels that fall between the minimum low management level and the minimum flood level. Lake levels in the northern region decreased by an average of 0.22 foot and were 3.65 feet below the base of the annual normal range. Lake levels in the Tampa Bay region increased an average of 0.12 foot and were 0.49 foot above the base of the annual normal range. Lake levels in the Polk Uplands region decreased 0.05 foot and were 1.50 feet below the base of the annual normal range. Average lake levels in the Lake Wales Ridge region increased 0.24 foot and ended the month 4.49 feet below the base of the annual normal range.

Total streamflow in regional index streams was within the normal range in all three regions of the District in June. 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 28th percentile. Streamflow in the Hillsborough River near Zephyrhills station in the central region was in the 59th percentile, while total streamflow measured at the Peace River at Arcadia station in the southern region was in the 39th percentile during June.

In June, groundwater data showed that levels in the intermediate and Floridan aquifers were within the normal range in all three regions of the District. The normal range is defined as between the 25th and 75th percentiles. The groundwater level in the northern region was in the 43rd percentile, while levels in the central and southern regions were in the 60th and 46th percentiles, respectively.

REGIONAL OVERVIEW OF HYDROLOGIC CONDITIONS

JUNE 2010

Northern Region

In June, the northern region received an average of 5.54 inches of rainfall, equivalent to the 27th percentile of the historical June readings, which is considered "normal." Average lake levels decreased in the northern region and ended the month an average of 3.65 feet below the base of the annual normal range. Total streamflow measured in the Withlacoochee River near Holder station decreased and was in the 28th percentile. Regional groundwater levels indicated average surficial aquifer water levels decreased and were in the 38th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 43rd percentile.

Central Region

In June, the central region received an average of 5.98 inches of rainfall, equivalent to the 43rd percentile of historical June readings, which is considered "normal." Average lake levels increased in the Tampa Bay region and decreased in the Polk Uplands region, ending the month 0.49 foot above and 1.50 feet below, respectively, the base of the annual range. Total streamflow measured at the Hillsborough River near Zephyrhills station decreased and was in the 59th percentile. Regional groundwater levels indicated average surficial aquifer water levels increased and were in the 69th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 60th percentile.

Southern Region

In June, the southern region received an average of 6.13 inches of rainfall, equivalent to the 32nd percentile of historical June readings, which is considered "normal." Average lake levels increased in the Lake Wales Ridge region and ended the month 4.49 feet below the base of the annual normal range. Total streamflow measured at the Peace River at Arcadia station increased and was in the 39th percentile. Regional groundwater levels indicated average surficial aquifer water levels increased and were in the 60th percentile; while levels in the intermediate and Floridan aquifer decreased and were in the 46th 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 June, rainfall totals for all three regions of the District were within the normal range. The normal range for rainfall is defined by totals that fall on or between the 25th to 75th percentiles of the historical monthly average for each region and where the 50th percentile represents the historical median. The northern region received an average of 5.54 inches of rainfall, equivalent to the 27th percentile of the historical record. The central region received an average of 5.98 inches, equivalent to the 43rd percentile; while the southern region received an average of 6.13 inches, equivalent to the 32nd percentile. District-wide, rainfall averaged 5.92 inches, which is equivalent to the 29th percentile of the historical June record.

During the 12-month period from July 1, 2009 through June 30, 2010, the average rainfall totals in all three regions of the District were classified as "normal." The northern region received an average of 54.42 inches of rainfall, equivalent to the 53rd percentile of the historical record. The central region received an average of 54.58 inches of rainfall, equivalent to the 62nd percentile. The southern region received an average of 52.93 inches of rainfall, equivalent to the 52nd percentile. The District-wide rainfall average was 53.96 inches, which is equivalent to the 57th percentile of the historical annual record.

Tampa Monthly Climate Summary for June 2010

According to the National Weather Service (NWS), the monthly average temperature (°F) in the Tampa Bay area (TBA) was 84.8 degrees, which was 3.3 degree above normal. The highest temperature recorded in the TBA during the month was 98 degrees, while the lowest temperature recorded during the month was 72 degrees.

Temperature and Precipitation Outlook

The Climate Prediction Center's (CPC) three-month weather forecast, as of July 15, 2010, indicates above-normal precipitation and above-normal temperatures for all three regions of the District during the three-month period of August/September/October 2010.

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

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

RELATIONSHIP OF JUNE 2010 RAINFALL TO HISTORICAL RAINFALL AVERAGES

Regional Summary:

<i>Region</i>	<i>JUN 2010 Average Rainfall</i>	<i>Historical Average for JUN</i>	<i>Departure from Historical Average</i>	<i>Calendar Year 2010 Cumulative Rainfall JAN-JUN</i>	<i>Calendar Year Historical Cumulative Rainfall JAN-JUN</i>	<i>Departure from Historical Cumulative JUN 2010</i>	<i>Cumulative 12-month Rainfall JUL 2009- JUN 2010</i>	<i>Historical 12-month Cumulative Rainfall</i>	<i>Departure from Historical 12-month Cumulative</i>
Northern Counties	5.54	7.45	-1.91	27.71	23.54	4.17	54.42	53.57	0.85
Central Counties	5.98	6.98	-1.00	25.89	21.66	4.23	54.58	52.44	2.14
Southern Counties	6.13	7.92	-1.79	22.91	21.94	0.97	52.93	52.41	0.52
District All Counties	5.92	7.44	-1.52	25.33	22.26	3.07	53.96	52.68	1.28

Regional Counties Summary:

<i>NORTHERN COUNTIES</i>	<i>JUN 2010 Average Rainfall</i>	<i>Historical Average for JUN</i>	<i>Departure from Historical Average</i>	<i>Calendar Year 2010 Cumulative Rainfall JAN-JUN</i>	<i>Calendar Year Historical Cumulative Rainfall JAN-JUN</i>	<i>Departure from Historical Cumulative JUN 2010</i>	<i>Cumulative 12-month Rainfall JUL 2009- JUN 2010</i>	<i>Historical 12-month Cumulative Rainfall</i>	<i>Departure from Historical 12-month Cumulative</i>
Levy County	5.72	6.78	-1.06	27.69	23.53	4.16	53.50	53.95	-0.45
Marion County	5.65	7.41	-1.76	30.39	24.17	6.22	56.63	54.30	2.33
Citrus County	4.65	7.73	-3.08	28.81	23.72	5.09	55.30	53.99	1.31
Sumter County	5.52	7.42	-1.90	25.82	23.33	2.49	52.75	52.05	0.70
Hernando County	6.18	7.71	-1.53	25.78	23.74	2.04	53.67	54.99	-1.32
<i>CENTRAL COUNTIES</i>									
Pasco County	5.59	7.42	-1.83	27.52	23.06	4.46	57.92	53.93	3.99
Pinellas County	5.48	5.99	-0.51	23.93	20.05	3.88	55.35	51.53	3.82
Hillsborough County	5.83	7.44	-1.61	25.23	22.13	3.10	55.59	52.56	3.03
Polk County	6.36	7.87	-1.51	25.91	23.07	2.84	52.08	51.99	0.09
<i>SOUTHERN COUNTIES</i>									
Manatee County	5.92	7.65	-1.73	20.44	21.53	-1.09	53.97	53.63	0.34
Hardee County	6.68	8.36	-1.68	22.73	22.64	0.09	51.68	52.24	-0.56
Highlands County	5.32	8.21	-2.89	22.18	22.24	-0.06	45.97	51.88	-5.91
Sarasota County	5.69	7.61	-1.92	22.55	20.97	1.58	53.97	52.72	1.25
DeSoto County	6.92	8.40	-1.48	25.08	21.96	3.12	54.11	51.84	2.27
Charlotte County	5.71	8.55	-2.84	25.34	21.36	3.98	54.76	52.28	2.48

JUNE 2010 RAINFALL CHARACTERIZATION

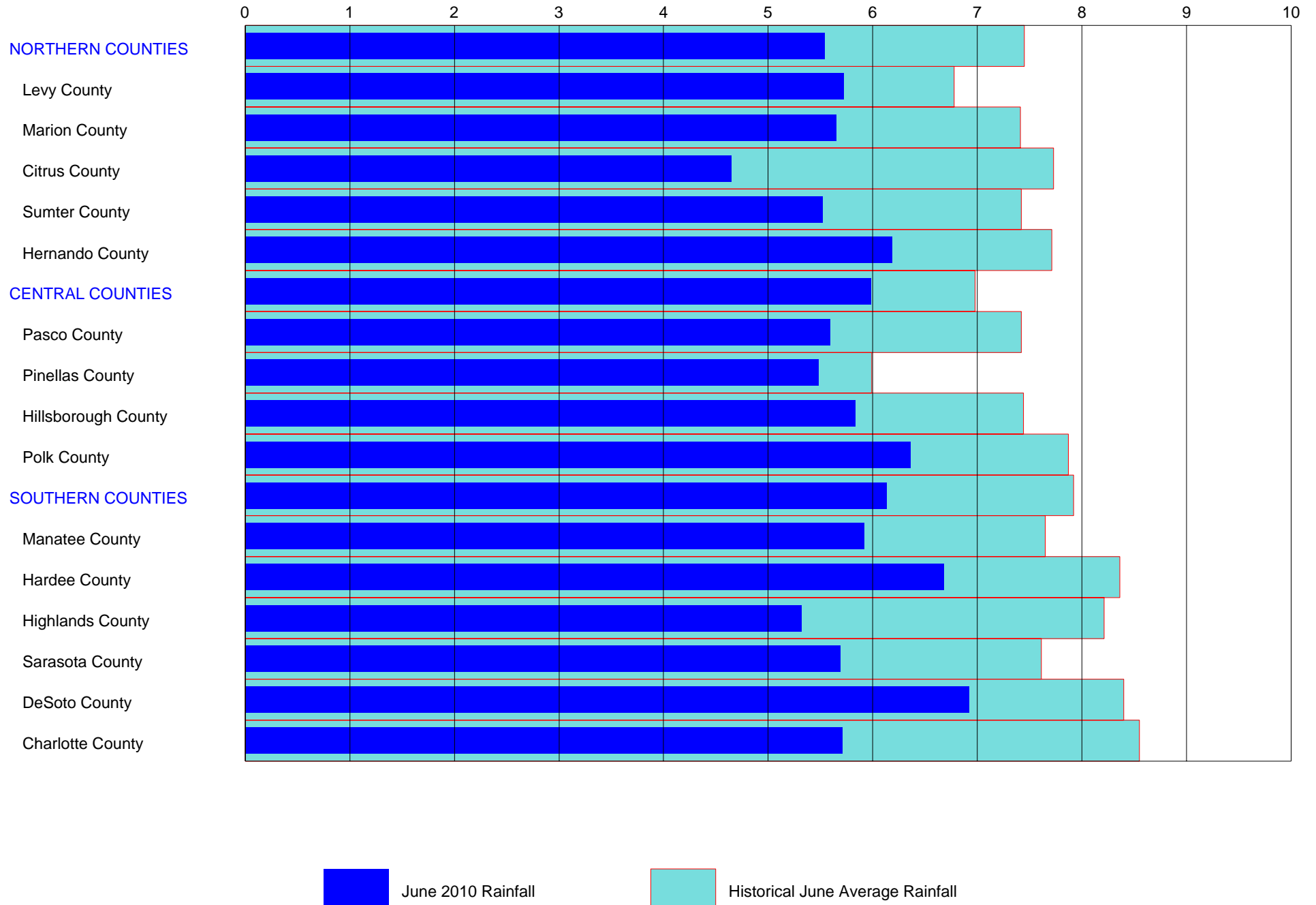
Regional Characterization:

<i>Region</i>	<i>JUN 2010 Average Rainfall</i>	<i>Historical JUN Percentile</i>	<i>JUN Rainfall Characterization</i>	<i>Cumulative 12-month Rainfall JUL 2009- JUN 2010</i>	<i>Historical 12-month Cumulative Percentile</i>	<i>12-month Cumulative Rainfall Characterization</i>
Northern Counties	5.54	27	Normal	54.42	53	Normal
Central Counties	5.98	43	Normal	54.58	62	Normal
Southern Counties	6.13	32	Normal	52.93	52	Normal
District Counties	5.92	29	Normal	53.96	57	Normal

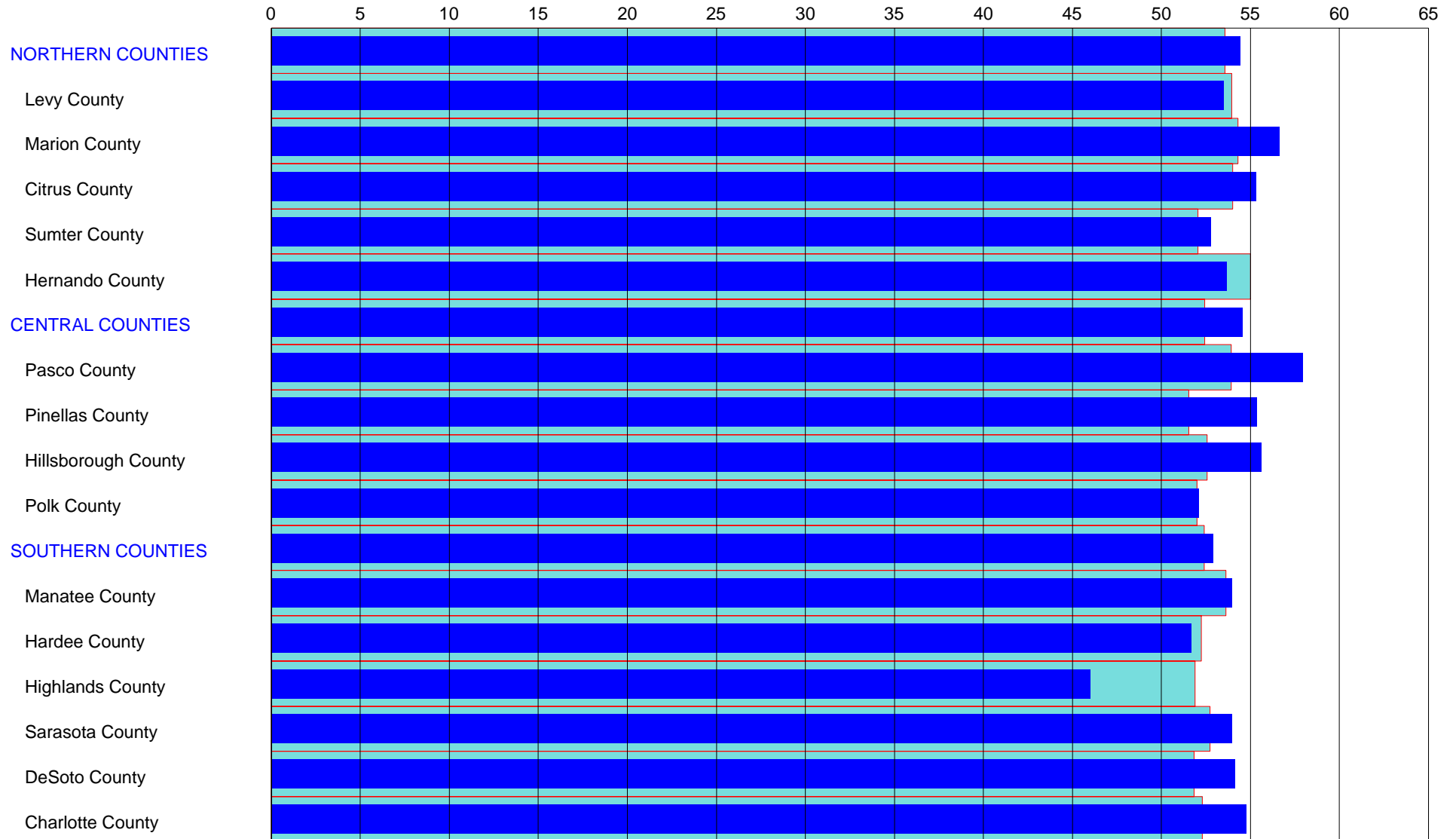
Regional Counties Characterization:

<i>NORTHERN COUNTIES</i>	<i>JUN 2010 Average Rainfall</i>	<i>Historical JUN Percentile</i>	<i>JUN Rainfall Characterization</i>	<i>Cumulative 12-month Rainfall JUL 2009- JUN 2010</i>	<i>Historical 12-month Cumulative Percentile</i>	<i>12-month Cumulative Rainfall Characterization</i>
Levy County	5.72	36	Normal	53.50	51	Normal
Marion County	5.65	29	Normal	56.63	61	Normal
Citrus County	4.65	17	Drier than normal	55.30	54	Normal
Sumter County	5.52	28	Normal	52.75	50	Normal
Hernando County	6.18	32	Normal	53.67	45	Normal
<i>CENTRAL COUNTIES</i>						
Pasco County	5.59	30	Normal	57.92	67	Normal
Pinellas County	5.48	55	Normal	55.35	65	Normal
Hillsborough County	5.83	27	Normal	55.59	65	Normal
Polk County	6.36	32	Normal	52.08	50	Normal
<i>SOUTHERN COUNTIES</i>						
Manatee County	5.92	34	Normal	53.97	52	Normal
Hardee County	6.68	35	Normal	51.68	47	Normal
Highlands County	5.32	20	Drier than normal	45.97	25	Drier than normal
Sarasota County	5.69	37	Normal	53.97	59	Normal
DeSoto County	6.92	47	Normal	54.11	58	Normal
Charlotte County	5.71	30	Normal	54.76	62	Normal

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



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



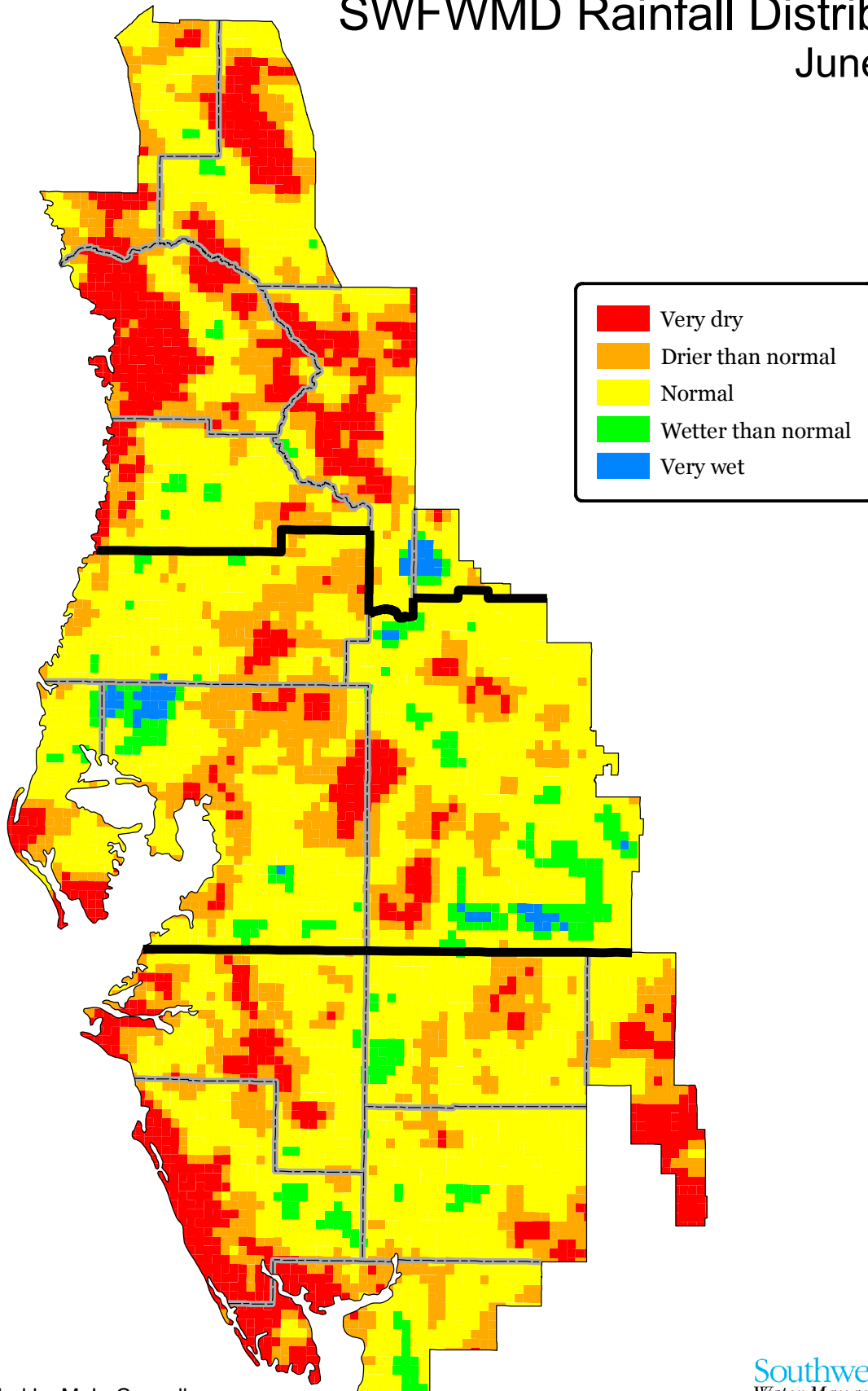
12-month Cumulative Rainfall



Average 12-month Cumulative

SWFWMD Rainfall Distribution

June 2010

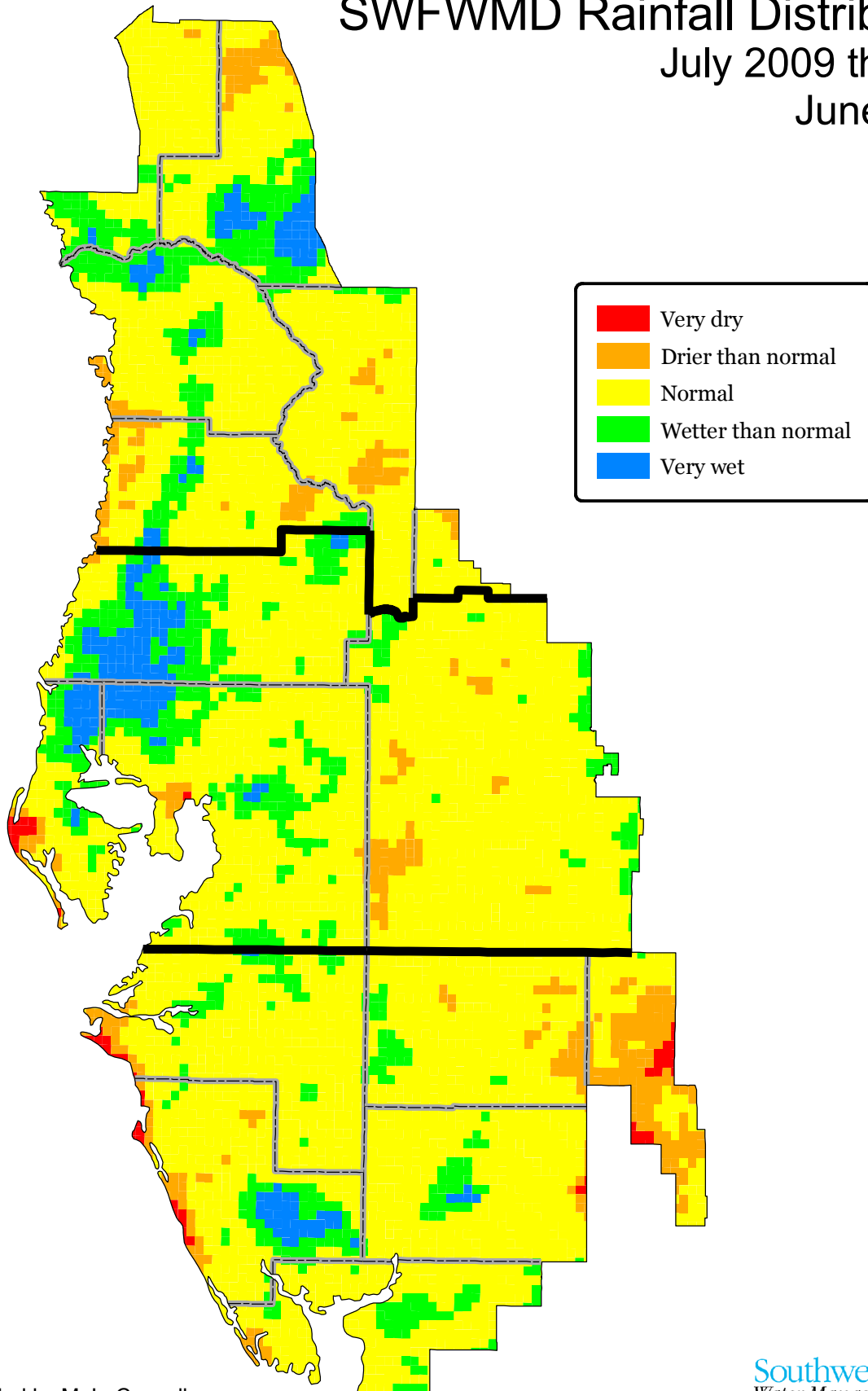


Compiled by M. L. Crowell
Data source: Vieux, Inc.

Southwest Florida
Water Management District

SWFWMD Rainfall Distribution

July 2009 through
June 2010



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

Southwest Florida
Water Management District

SURFACE WATER

Lakes

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

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

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

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

In June, 41 of the 76 lakes monitored for this report recorded water level increases. Water levels decreased in the Northern and Polk Uplands regions by 0.22 and 0.05 foot respectively. Water levels increased in the Tampa Bay and Lake Wales Ridge regions by 0.12 and 0.24 foot, respectively. District-wide, average water levels increased by 0.02 foot, compared to last month.

In June, average water levels were higher in 67 of the 76 lakes, compared to June 2009. In the Northern, Tampa Bay, Polk Uplands, and Lake Wales Ridge regions, the average regional lake level was higher by 1.41 feet, 3.03 feet, 0.85 foot and 0.26 foot, respectively, compared to last year's levels. District-wide, average lake levels were higher by 1.84 feet.

Water levels in 42 of the 76 lakes were below the base of the annual normal range. Average lake levels in the Northern, Polk Uplands, and Lake Wales Ridge regions were 3.65, 1.50, and 4.49 feet, respectively, below the base of the annual normal range. Water levels in the Tampa Bay region were 0.49 foot above the base of the annual normal range. District-wide, average lake levels were 1.41 feet below the base of the annual normal range. Water levels in 50 of the 76 lakes were above the drought-year levels.

SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

NORTHERN LAKES															
Lake Name	County	Beginning of Record	MAY 2010	JUN 2010	JUN 2009	Change from MAY 2010	Change from JUN 2009	Diff from MELM	(MELM) Drought Year Low	(MLM) Normal Year Low	(MF) Normal Year High	Period of Record Low	Record Low Date	Period of Record High	Record High Date
Big Fish Lake	Pasco	1980	69.32	69.27	68.59	-0.05	0.68	-2.48	71.75	73.05	76.05	65.45	JUN 1997	77.40	SEP 2004
Crews Lake	Pasco	1964	48.18	48.02	46.29	-0.16	1.73	-1.98	50.00	52.00	55.00	42.63	APR 2001	56.60	SEP 1964
Hancock Lake	Pasco	1978	93.98	94.12	91.64	0.14	2.48	-7.88	102.00	104.00	106.50	90.00	MAR 2009	108.90	MAR 1998
Hunters Lake	Hernando	1965	14.60	14.19	12.21	-0.41	1.98	-1.81	16.00	17.50	20.50	11.90	JUN 2001	20.70	MAR 1970
Lake Iola	Pasco	1965	132.44	132.44	133.70	0.00	-1.26	-10.06	142.50	145.00	147.50	132.44	MAY 2010	148.70	JAN 1989
Lake Lindsey	Hernando	1965	62.56	62.64	62.60	0.08	0.04	-1.86	64.50	66.00	69.00	61.57	MAY 2009	70.14	AUG 1965
Little Lake (Consu	Citrus	1975	36.52	36.06	34.71	-0.46	1.35	-1.19	37.25	39.00	41.50	31.10	MAY 2001	42.84	SEP 2004
Lake Miona	Sumter	1978	51.64	51.26	50.08	-0.38	1.18	0.26	51.00	53.00	55.00	47.88	MAY 2002	56.60	OCT 1982
Moon Lake	Pasco	1965	36.33	36.23	33.09	-0.10	3.14	0.73	35.50	37.50	40.50	32.98	APR 2009	41.26	SEP 2004
Lake Panasoffkee	Sumter	1955	37.96	37.76	38.65	-0.20	-0.89	-0.74	38.50	39.50	42.50	36.93	JUN 2002	44.28	APR 1960
Lake Pasadena	Pasco	1984	84.95	84.69	83.29	-0.26	1.40	-5.31	90.00	91.50	94.50	81.56	MAY 2001	94.86	OCT 2004
Spring Lake	Hernando	1965	177.62	177.55	175.94	-0.07	1.61	-0.70	178.25	181.25	184.25	174.75	APR 2009	183.57	OCT 1984
Floral City Pool	Citrus	1957	39.68	39.07	38.63	-0.61	0.44	0.82	38.25	40.25	42.50	30.29	APR 2008	44.22	MAR 1960
Inverness Pool	Citrus	1957	39.42	39.01	35.47	-0.41	3.54	2.76	36.25	38.25	40.50	31.56	MAY 2001	42.94	APR 1960
Hernando Pool	Citrus	1936	37.92	37.55	33.85	-0.37	3.70	2.80	34.75	36.75	39.00	30.92	JUL 1957	41.74	APR 1960

TAMPA BAY LAKES															
Lake Name	County	Beginning of Record	MAY 2010	JUN 2010	JUN 2009	Change from MAY 2010	Change from JUN 2009	Diff from MELM	(MELM) Drought Year Low	(MLM) Normal Year Low	(MF) Normal Year High	Period of Record Low	Record Low Date	Period of Record High	Record High Date
Lake Alice	Hillsborough	1971	39.46	39.82	35.30	0.36	4.52	2.32	37.50	40.25	42.25	33.24	MAY 2002	42.42	SEP 2004
Lake Ann-Parker	Pasco	1969	47.93	47.94	44.44	0.01	3.50	2.94	45.00	45.75	48.75	43.28	JUN 2001	49.29	SEP 1979
Bay Lake	Hillsborough	1982	45.50	45.72	44.09	0.22	1.63	3.22	42.50	44.00	46.75	41.86	APR 1985	46.46	DEC 1997
Lake Brant	Hillsborough	1971	57.60	57.41	55.25	-0.19	2.16	2.91	54.50	56.50	58.75	51.65	JUN 1994	60.04	AUG 1979
Brooker Lake	Hillsborough	1977	62.52	62.67	59.52	0.15	3.15	3.67	59.00	61.00	64.25	56.49	MAY 2002	64.08	DEC 1997
Calm Lake	Hillsborough	1965	48.04	48.30	44.34	0.26	3.96	3.30	45.00	47.50	50.50	41.88	JUN 2002	50.73	SEP 2004
Camp Lake	Pasco	1968	62.70	62.78	55.33	0.08	7.45	3.78	59.00	61.75	64.00	50.82	MAY 2002	64.00	SEP 1979
Carlton Lake	Hillsborough	1976	90.21	90.53	89.10	0.32	1.43	2.53	88.00	90.50	93.50	86.82	MAY 2001	94.60	FEB 1998
Lake Carroll	Hillsborough	1946	35.29	35.13	33.16	-0.16	1.97	2.63	32.50	34.50	37.00	30.87	MAY 2002	40.08	SEP 1947
Church Lake	Hillsborough	1957	35.18	35.46	32.28	0.28	3.18	3.96	31.50	34.00	36.25	27.94	MAY 2002	37.28	AUG 1959
Lake Cooper	Hillsborough	1946	60.02	59.90	57.29	-0.12	2.61	2.90	57.00	59.75	61.75	55.60	JUN 2001	62.54	SEP 1947
Crescent Lake	Hillsborough	1981	42.06	42.08	37.80	0.02	4.28	3.58	38.50	40.00	42.50	35.34	JUN 2001	42.48	SEP 2009
Deer Lake	Hillsborough	1977	64.60	64.68	61.71	0.08	2.97	2.18	62.50	64.50	67.25	60.72	MAY 2002	67.42	DEC 1997
Egypt Lake	Hillsborough	1978	36.30	35.98	34.82	-0.32	1.16	3.48	32.50	35.00	37.50	33.06	MAY 2000	38.15	SEP 1985
Gornto Lake	Hillsborough	1979	36.06	35.87	32.04	-0.19	3.83	1.87	34.00	36.00	38.50	29.86	MAR 1979	39.48	FEB 1998
Lake Harvey	Hillsborough	1970	61.10	61.14	57.22	0.04	3.92	3.14	58.00	60.25	62.50	53.94	MAY 2002	63.90	DEC 1997
Lake Hiawatha	Hillsborough	1981	50.13	50.38	47.94	0.25	2.44	5.38	45.00	48.00	50.50	46.14	JUN 2000	51.12	APR 2010
Horse Lake	Hillsborough	1930	43.56	43.95	40.20	0.39	3.75	1.95	42.00	44.00	46.50	36.33	JUN 2002	50.00	AUG 1959
Lake Keene	Hillsborough	1948	62.32	62.39	59.76	0.07	2.63	3.39	59.00	60.50	63.00	56.12	JUN 2002	63.30	SEP 1953
Keystone Lake	Hillsborough	1946	41.41	41.69	39.44	0.28	2.25	2.69	39.00	39.75	42.00	37.84	JUN 2000	43.55	MAR 1960
King Lake	Pasco	1977	97.20	96.68	94.63	-0.52	2.05	-3.32	100.00	102.50	105.25	94.20	APR 2009	104.92	SEP 1983
Lake Leclare	Hillsborough	1977	50.30	50.73	47.19	0.43	3.54	3.73	47.00	49.50	52.00	44.95	JUN 2001	52.34	DEC 1997
Lake Linda	Pasco	1969	65.46	65.54	61.94	0.08	3.60	3.54	62.00	64.00	66.75	60.07	MAY 2001	67.13	AUG 1979
Little Lake	Hillsborough	1979	45.51	45.76	43.25	0.25	2.51	3.76	42.00	43.50	46.50	38.06	JUN 1994	46.44	FEB 1998
Long Pond	Hillsborough	1978	43.33	43.14	40.13	-0.19	3.01	1.14	42.00	44.00	46.50	36.33	MAY 1979	48.27	SEP 1998
Mud (Walden) Lake	Hillsborough	1978	112.70	112.78	112.76	0.08	0.02	2.28	110.50	112.50	115.00	111.90	APR 2009	114.42	MAR 1978
Lake Padgett	Pasco	1965	69.37	69.51	67.36	0.14	2.15	2.01	67.50	69.00	71.25	66.27	JUN 2001	71.90	SEP 1988
Platt Lake	Hillsborough	1946	49.17	49.24	46.50	0.07	2.74	3.24	46.00	47.75	50.50	42.53	JUN 2001	51.88	SEP 1979
Rainbow Lake	Hillsborough	1971	36.55	36.90	32.82	0.35	4.08	1.90	35.00	37.50	40.50	29.82	JUN 2002	40.74	AUG 2003
Lake Stemper	Hillsborough	1946	60.98	60.83	55.84	-0.15	4.99	2.83	58.00	59.50	62.00	53.36	JUN 2001	62.30	MAR 1960
Lake Thomas	Hillsborough	1971	62.73	62.95	59.79	0.22	3.16	3.70	59.25	61.25	63.50	56.48	JUN 2002	64.48	SEP 1979
Turkey Ford Lake	Hillsborough	1970	50.88	52.05	49.23	1.17	2.82	2.05	50.00	51.50	54.00	48.07	JUN 1985	55.28	SEP 1988
Lake Wimauma	Hillsborough	1974	75.23	75.32	72.74	0.09	2.58	-5.68	81.00	83.00	86.75	70.12	MAY 2001	84.38	MAR 1998

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

SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

POLK UPLANDS LAKES															
Lake Name	County	Beginning of Record	MAY 2010	JUN 2010	JUN 2009	Change from MAY 2010	Change from JUN 2009	Diff from MELM	(MELM) Drought Year Low	(MLM) Normal Year Low	(MF) Normal Year High	Period of Record Low	Record Low Date	Period of Record High	Record High Date
Lake Alfred	Polk	1961	125.43	125.30	124.58	-0.13	0.72	-0.95	126.25	128.25	130.75	122.40	MAY 1977	132.76	MAR 1998
Lake Ariana	Polk	1945	133.53	133.44	132.28	-0.09	1.16	0.94	132.50	134.50	137.00	131.28	MAY 1976	137.90	AUG 1946
Lake Arietta	Polk	1970	138.45	138.33	137.32	-0.12	1.01	0.33	138.00	141.00	144.00	136.50	MAY 1977	144.12	SEP 2004
Blue Lake South	Polk	1986	110.38	110.75	110.28	0.37	0.47	-1.75	112.50	114.00	117.00	103.38	FEB 1991	119.19	DEC 2005
Lake Bonny	Polk	1954	125.06	125.36	124.20	0.30	1.16	-0.64	126.00	128.00	130.50	122.34	MAY 2009	133.08	SEP 2004
Lake Buffum	Polk	1972	125.75	125.30	124.89	-0.45	0.41	-1.45	126.75	129.25	132.25	123.90	JUN 1991	133.00	JUN 2005
Clearwater Lake	Polk	1979	141.09	140.89	139.46	-0.20	1.43	1.89	139.00	141.00	143.50	137.93	MAY 2001	146.06	AUG 1984
Lake Conine	Polk	1989	125.78	125.86	124.36	0.08	1.50	1.36	124.50	126.50	128.75	123.83	NOV 2009	129.95	SEP 2004
Eagle Lake	Polk	1965	125.58	125.30	125.40	-0.28	-0.10	-1.20	126.50	128.50	130.75	118.76	MAY 1976	131.50	SEP 1996
Lake Fannie	Polk	1967	120.97	120.91	120.40	-0.06	0.51	0.91	120.00	123.50	125.75	118.67	MAY 1977	127.51	SEP 2004
Lake Garfield	Polk	1969	102.85	102.55	100.79	-0.30	1.76	2.55	100.00	101.00	104.75	97.38	JUN 2001	105.91	SEP 1979
Lake Hamilton	Polk	1945	119.37	119.30	118.15	-0.07	1.15	2.05	117.25	119.00	121.50	116.61	JUN 2001	124.34	OCT 1948
Lake Helene	Polk	1961	137.68	137.51	135.96	-0.17	1.55	-1.49	139.00	141.00	144.00	134.06	JUN 2008	146.48	MAR 1998
Lake Howard	Polk	1946	129.58	129.64	128.96	0.06	0.68	2.64	127.00	129.50	132.00	127.69	MAY 2001	133.10	SEP 1960
Lake Juliana	Polk	1961	128.54	128.28	127.72	-0.26	0.56	0.78	127.50	130.00	132.50	126.20	MAY 1976	134.10	MAR 1998
Lake Mcleod	Polk	1965	125.37	125.10	125.35	-0.27	-0.25	-2.90	128.00	129.50	132.00	115.11	MAY 1976	131.98	SEP 1998
Lake Otis	Polk	1954	124.35	124.42	123.10	0.07	1.32	1.42	123.00	125.00	128.00	119.58	MAY 1976	129.12	SEP 1960
Lake Ruby	Polk	1976	124.09	124.55	123.50	0.46	1.05	3.55	121.00	123.00	125.25	117.41	MAY 1976	125.98	SEP 2004
Lake Gibson	Polk	1954	142.73	142.79	142.80	0.06	-0.01	1.29	141.50	141.50	143.50	140.21	MAY 2009	145.40	SEP 1988

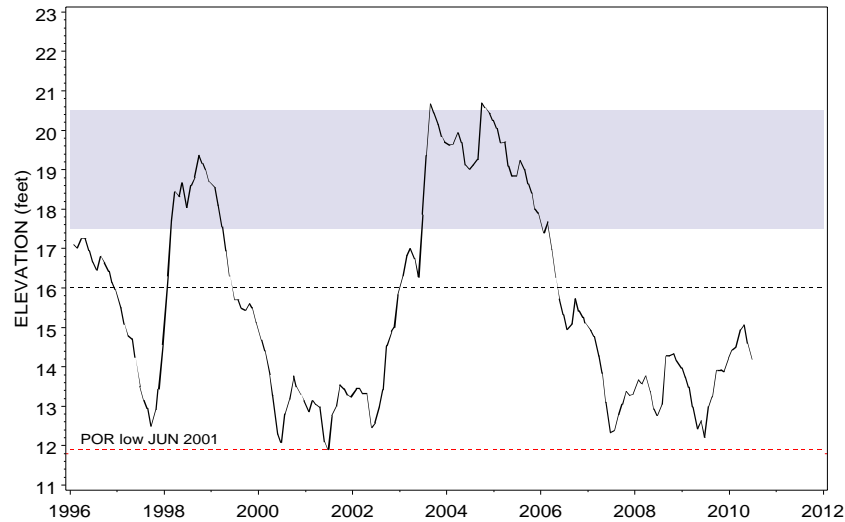
LK WALES RIDGE LAKES															
Lake Name	County	Beginning of Record	MAY 2010	JUN 2010	JUN 2009	Change from MAY 2010	Change from JUN 2009	Diff from MELM	(MELM) Drought Year Low	(MLM) Normal Year Low	(MF) Normal Year High	Period of Record Low	Record Low Date	Period of Record High	Record High Date
Lake Annie	Polk	1970	111.07	111.26	111.12	0.19	0.14	-2.74	114.00	116.00	119.00	108.36	JUN 1990	117.56	OCT 2005
Lake Clay	Highlands	1983	77.62	77.48	77.48	-0.14	0.00	2.48	75.00	76.00	78.75	74.34	MAY 2001	78.38	OCT 1995
Crooked Lake	Polk	1945	115.04	115.44	115.04	0.40	0.40	-1.56	117.00	118.50	122.00	106.10	MAY 1991	123.98	OCT 1948
Lake Jackson	Highlands	1945	98.08	98.34	98.42	0.26	-0.08	0.34	98.00	100.00	103.00	96.37	JUN 2008	103.76	SEP 1947
Lake Letta	Highlands	1951	92.21	92.24	92.12	0.03	0.12	-2.76	95.00	97.00	100.00	90.27	JUN 2008	101.38	OCT 1953
Lake Lotela	Highlands	1950	97.70	97.88	97.94	0.18	-0.06	-6.12	104.00	105.00	108.50	97.00	JUN 2008	109.38	JUL 1954
Lake Placid	Highlands	1984	89.75	89.71	89.67	-0.04	0.04	-0.29	90.00	91.50	94.50	88.08	JUN 2008	94.24	SEP 2003
Starr Lake	Polk	1983	98.54	99.14	99.62	0.60	-0.48	-8.86	108.00	110.00	113.00	96.23	JUL 2001	109.80	DEC 2005
Trout Lake	Highlands	1981	89.45	90.12	87.85	0.67	2.27	-4.88	95.00	98.00	101.00	87.15	MAY 2001	98.90	MAR 1998

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

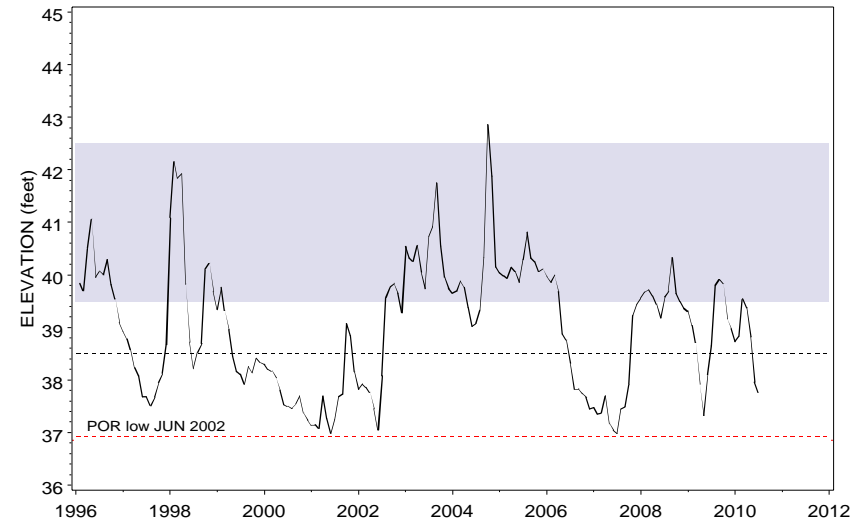
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

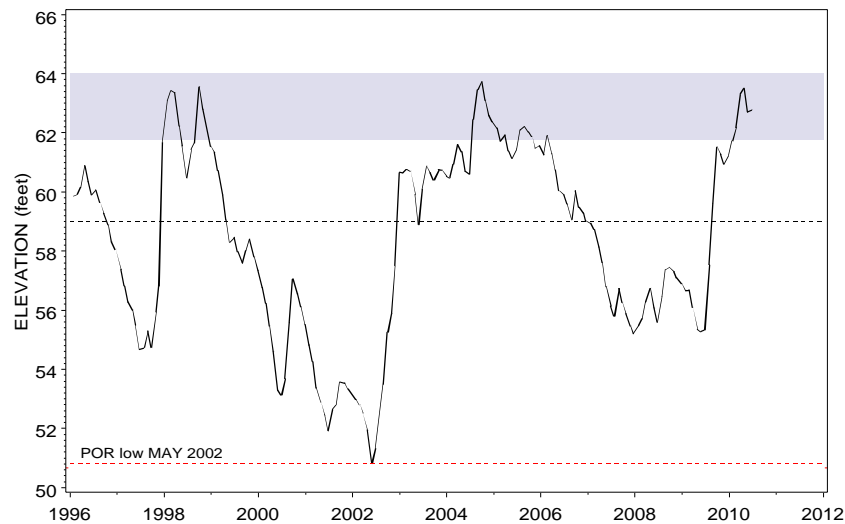
Hunters Lake
Northern Lakes



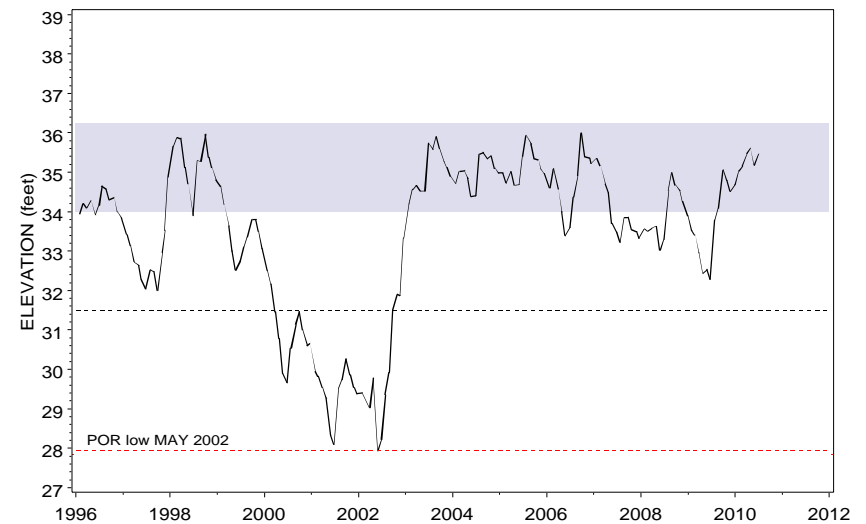
Lake Panasoffkee
Northern Lakes



Camp Lake
Tampa Bay Lakes



Church Lake
Tampa Bay Lakes

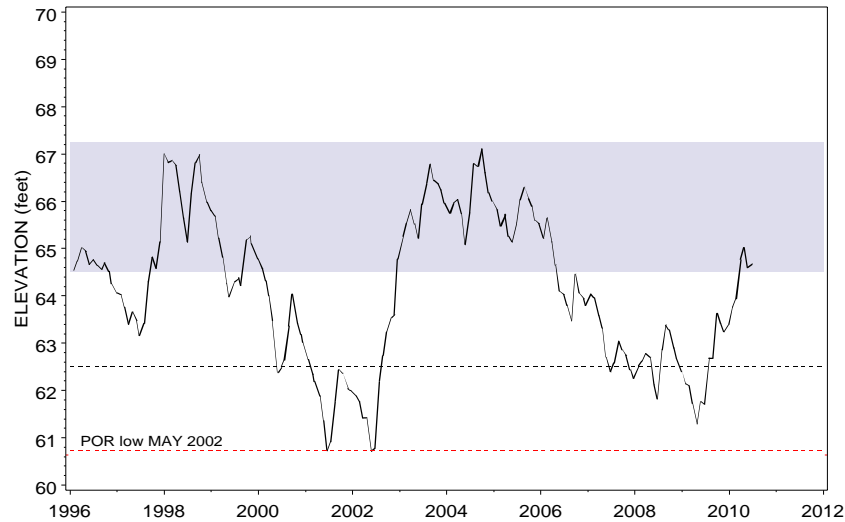


— Monthly Mean Elevation - - - Drought Year Low Normal Range

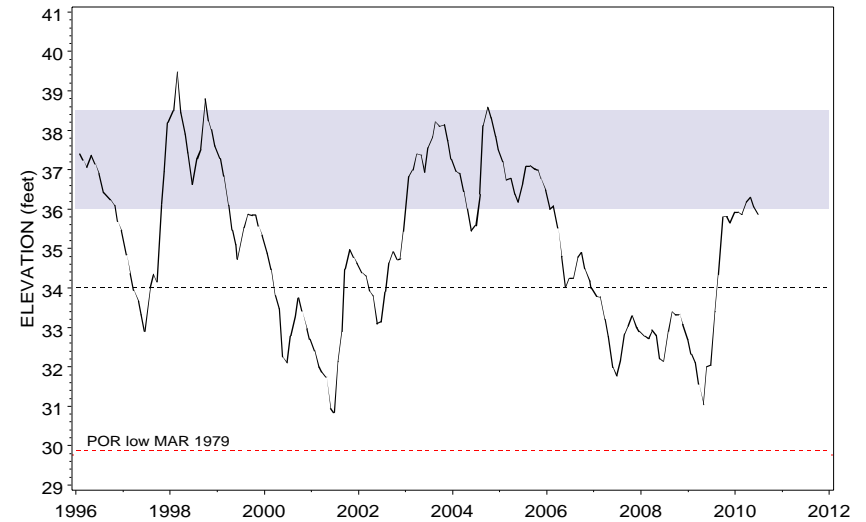
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

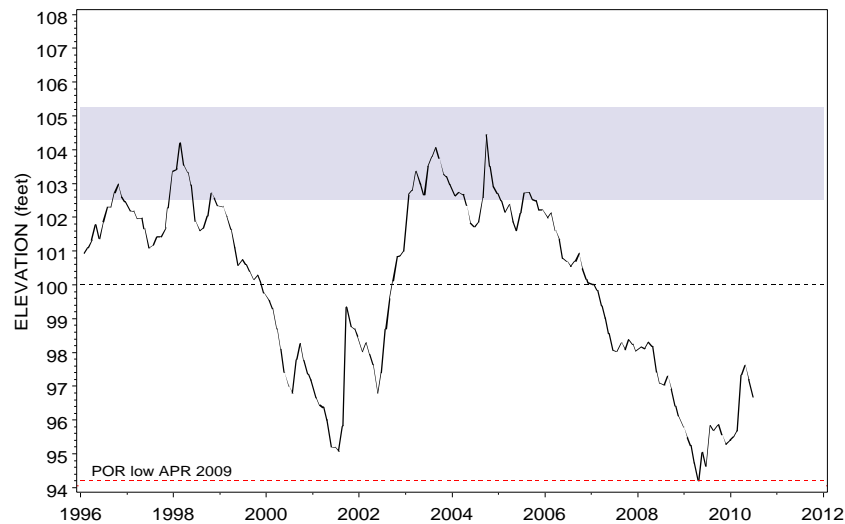
Deer Lake
Tampa Bay Lakes



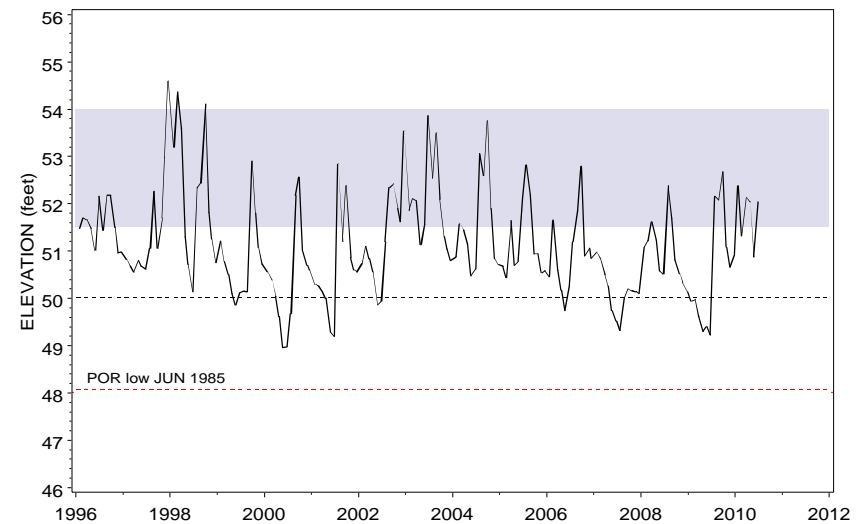
Gornto Lake
Tampa Bay Lakes



King Lake
Tampa Bay Lakes



Turkey Ford Lake
Tampa Bay Lakes

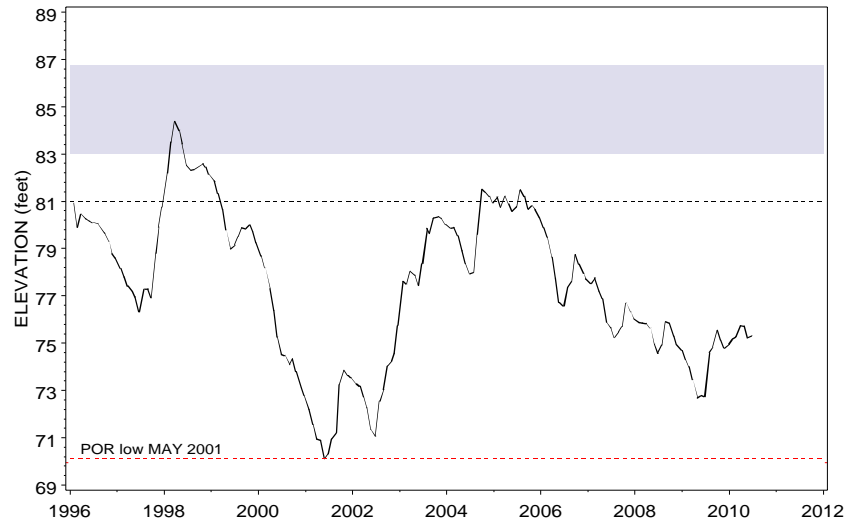


— Monthly Mean Elevation - - - Drought Year Low Normal Range

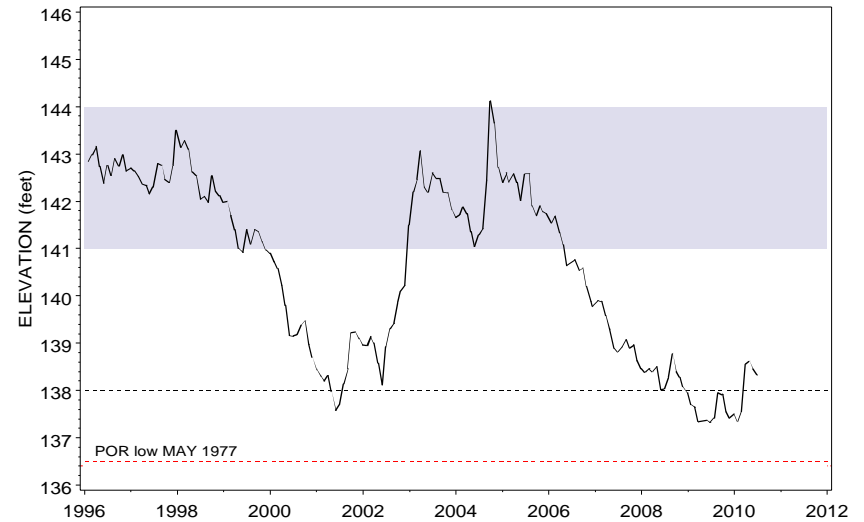
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

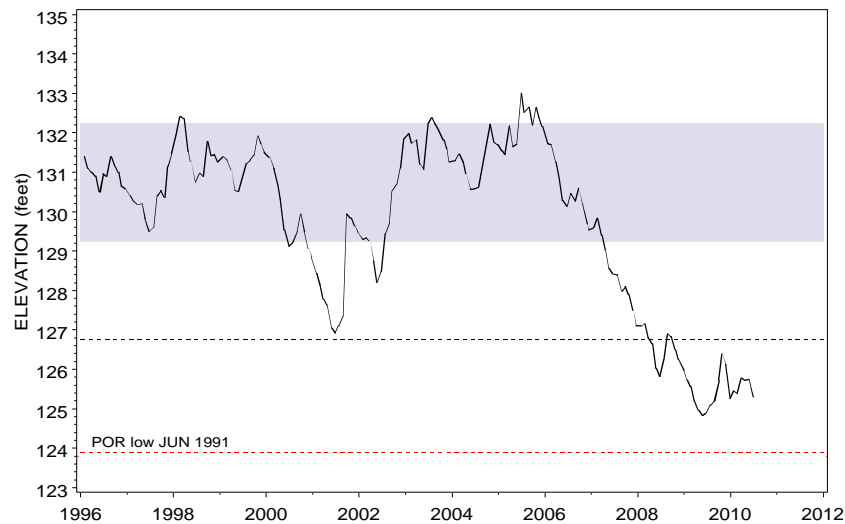
Lake Wimauma
Tampa Bay Lakes



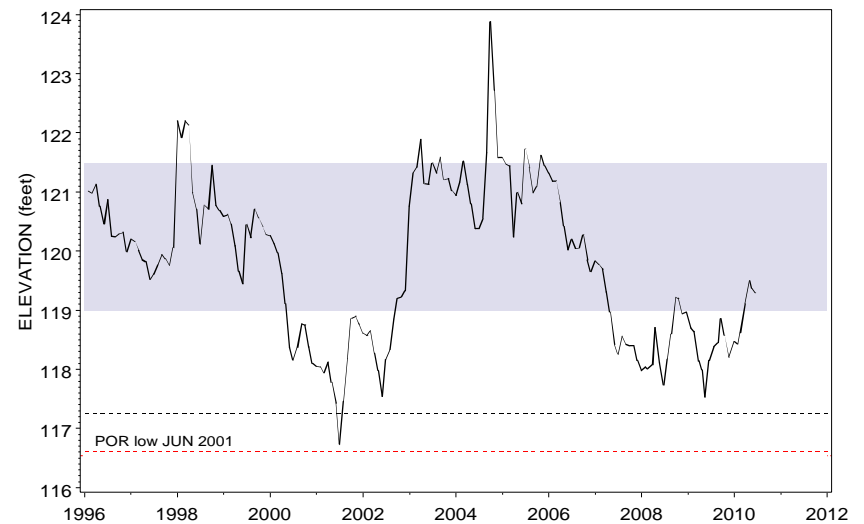
Lake Arietta
Polk Uplands Lakes



Lake Buffum
Polk Uplands Lakes



Lake Hamilton
Polk Uplands Lakes

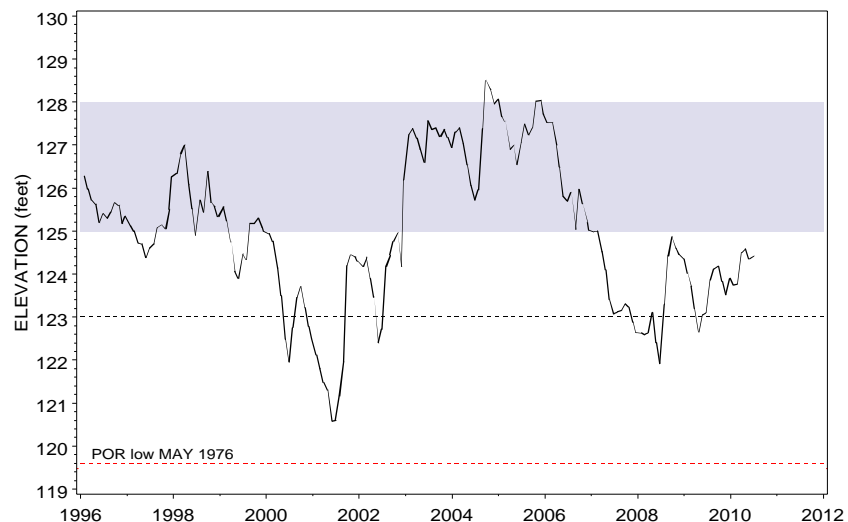


— Monthly Mean Elevation - - - Drought Year Low Normal Range

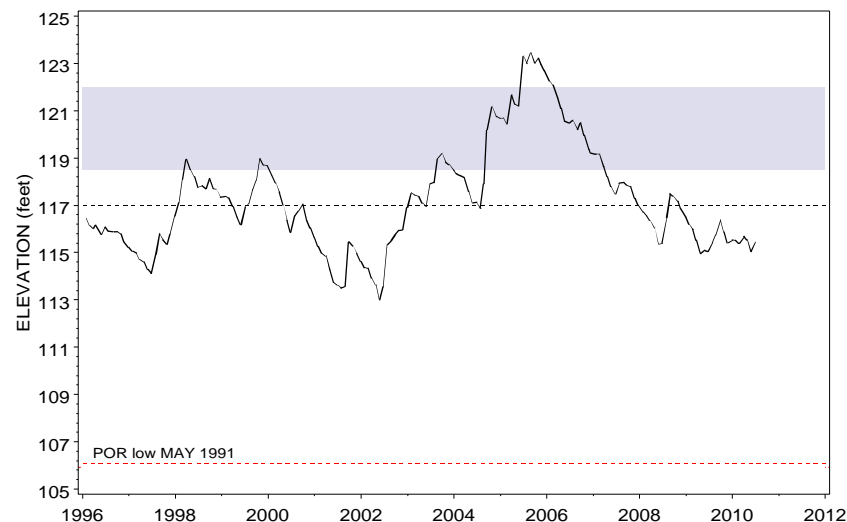
HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record

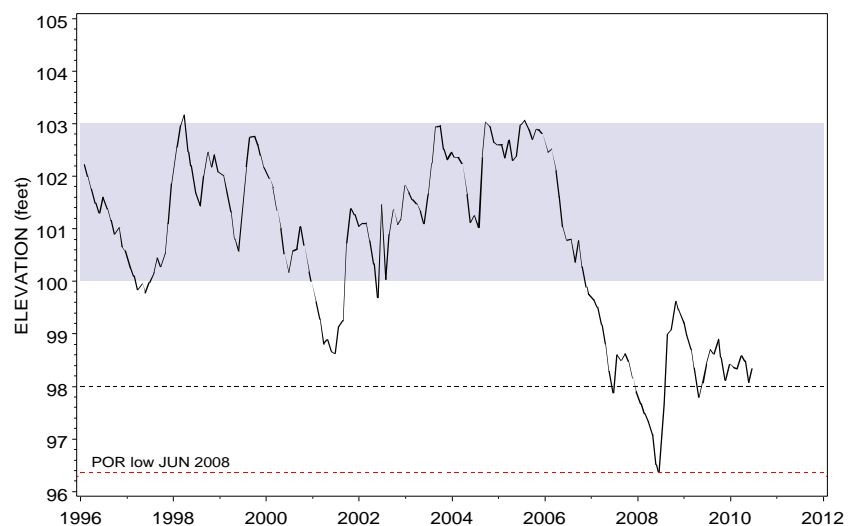
Lake Otis
Polk Uplands Lakes



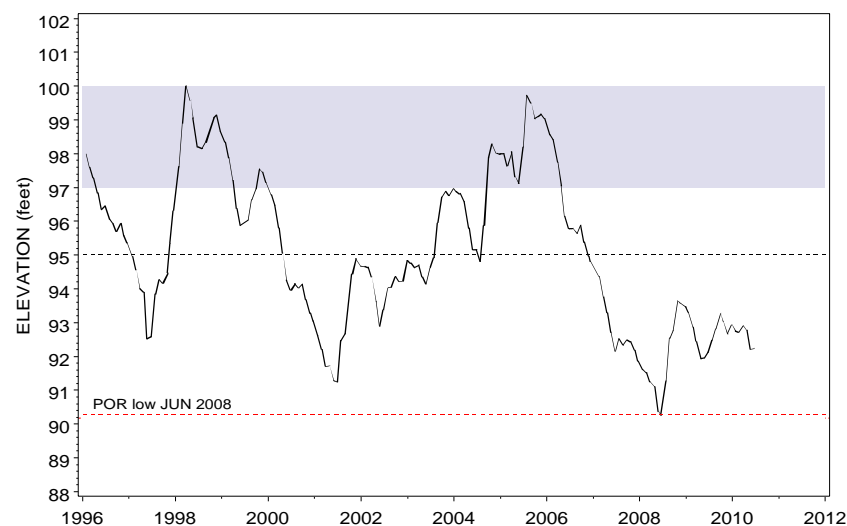
Crooked Lake
Lake Wales Ridge Lakes



Lake Jackson
Lake Wales Ridge Lakes



Lake Letta
Lake Wales Ridge Lakes



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

Streams

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

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

In June, five 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 525.9 cfs (339.7 mgd) and 32.1 cfs (20.7 mgd). Total streamflow increased by 102.5 cfs (66.2 mgd). District-wide, total streamflow decreased an average of 455.5 cfs (294.3 mgd).

Eight of the twelve monitoring stations recorded lower streamflow in June 2010 than in June 2009. Streamflow was lower in the northern, central, and southern regions by 62.5 cfs (40.4 mgd), 391.9 cfs (253.2 mgd), and 556.9 cfs (359.8 mgd), respectively. District-wide, total streamflow was lower, on average, by 1011.3 cfs (653.3 mgd), than the June 2009 average.

Compared to historical June discharge values, Withlacoochee River streamflow, measured at the Trilby station and the Holder station averaged in the 43rd and 28th percentiles, respectively. Streamflow measured at the Anclote, Pithlachascotee River, and Hillsborough River stations averaged in the 87th, 89th, and 59th percentiles of respective historical June readings. Streamflow measured at the Alafia River, Little Manatee River and Peace River at Bartow stations averaged in the 22nd, 41st, and 42nd percentiles of respective historical June readings. Additionally, streamflow measured at the Josephine Creek, Manatee River, Myakka River and Peace River at Arcadia stations averaged in the 45th, 32nd, 31st, and 39th percentiles of respective historical June readings.

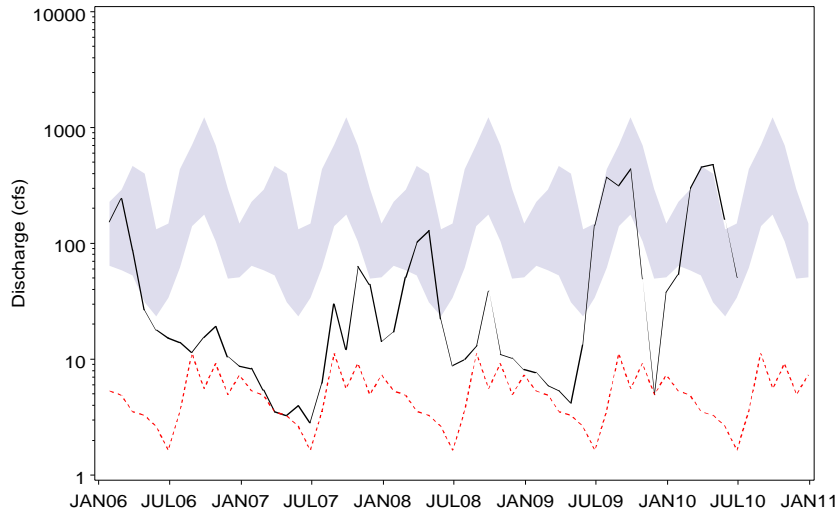
SUMMARY OF STREAM DISCHARGE FROM MAJOR STREAMS (CFS), JUNE 2010

	<i>Beginning Year of Record</i>	<i>Mean Discharge JUN 2010</i>	<i>Mean Discharge MAY 2010</i>	<i>Mean Discharge JUN 2009</i>	<i>Change from MAY 2010</i>	<i>Change from JUN 2009</i>	<i>JUN 2010 Percentile Rank</i>	<i>Period of Record Low</i>	<i>Record Low Date</i>	<i>Period of Record High</i>	<i>Record High Date</i>
NORTHERN COUNTIES											
Withlacoochee R at Trilby	1928	50.7	161.1	143.6	-110.4	-92.9	43%	0.1	JUN2000	8840	JUN1934
Withlacoochee R near Holder	1928	270.7	686.2	240.3	-415.5	30.4	28%	33.0	MAR2001	8660	APR1960
CENTRAL COUNTIES											
Anclote River near Elfers	1946	37.3	36.7	2.6	0.6	34.7	87%	0.8	MAY1962	3710	JUL1960
Pithlachascottee R near New Port Richey	1963	11.3	10.2	0.0	1.1	11.3	89%	0.0	JUN2009	1420	SEP1988
Hillsborough R near Zephyrhills	1939	118.4	156.3	132.4	-37.9	-14.0	59%	27.0	MAY2001	12300	MAR1960
Alafia River at Lithia	1932	94.9	135.7	234.5	-40.8	-139.6	22%	4.1	JUN2000	40800	SEP1933
Little Manatee R near Wimauma	1939	71.8	32.2	291.5	39.6	-219.7	41%	0.9	DEC1976	11100	SEP1960
Peace River at Bartow	1939	47.7	39.3	43.7	8.4	4.0	42%	0.0	MAY2009	4100	SEP1947
SOUTHERN COUNTIES											
Josephine Cr near DeSoto City	1946	23.2	17.9	87.8	5.3	-64.6	45%	0.5	MAY1956	1680	SEP1948
Manatee River near Myakka Head	1966	18.8	13.3	133.0	5.5	-114.2	32%	0.1	MAY1975	6440	JUN2003
Myakka River near Sarasota	1936	7.4	26.0	116.5	-18.6	-109.1	31%	0.0	MAY2009	10800	JUN2003
Peace River at Arcadia	1931	328.7	221.5	666.3	107.2	-337.6	39%	5.6	MAY2000	34700	SEP1933

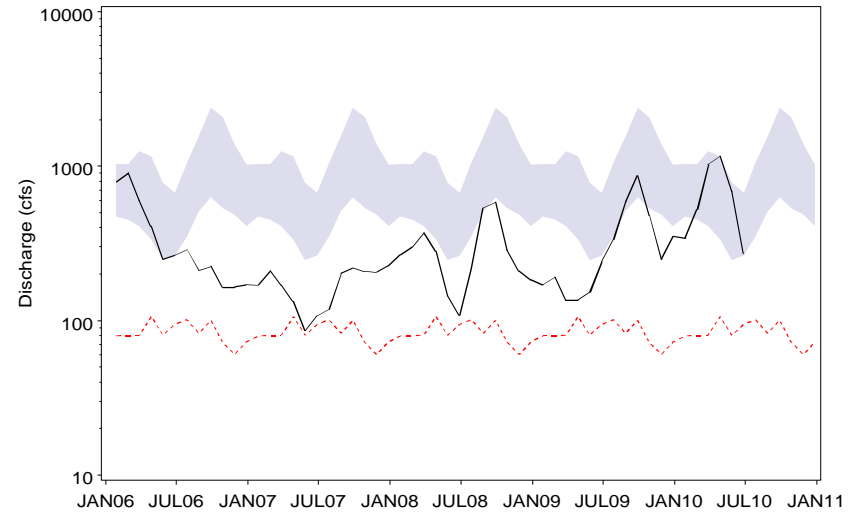
HYDROGRAPHS OF MAJOR STREAMS

JANUARY 2006 TO JUNE 2010

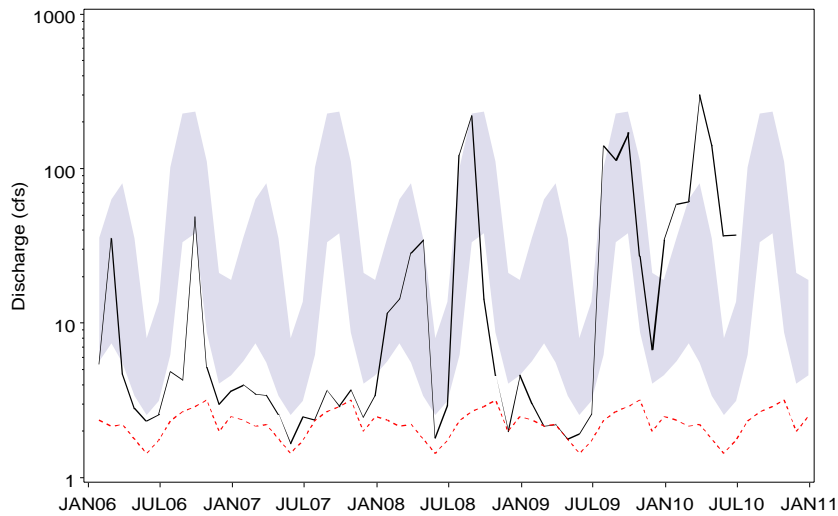
Withlacoochee R at Trilby
Northern Counties



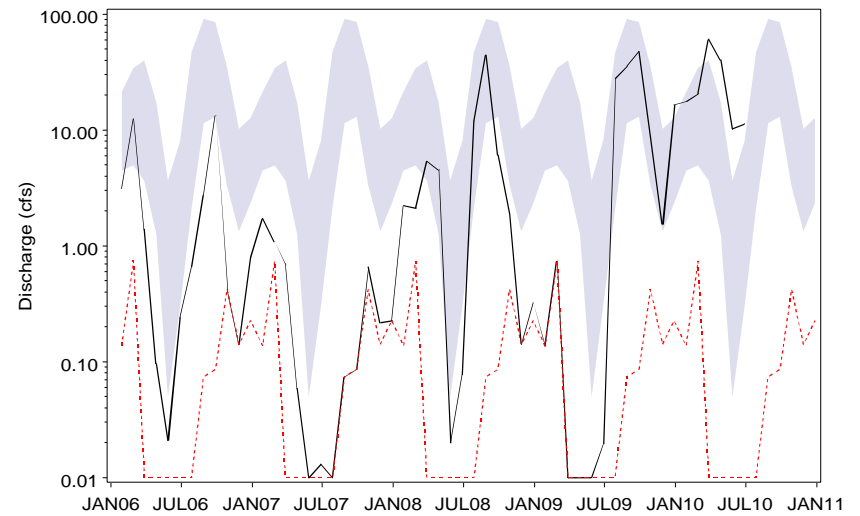
Withlacoochee R near Holder
Northern Counties



Ancloste River near Elfers
Central Counties



Pithlachascotee R near New Port Richey
Central Counties



— Monthly Mean Discharge

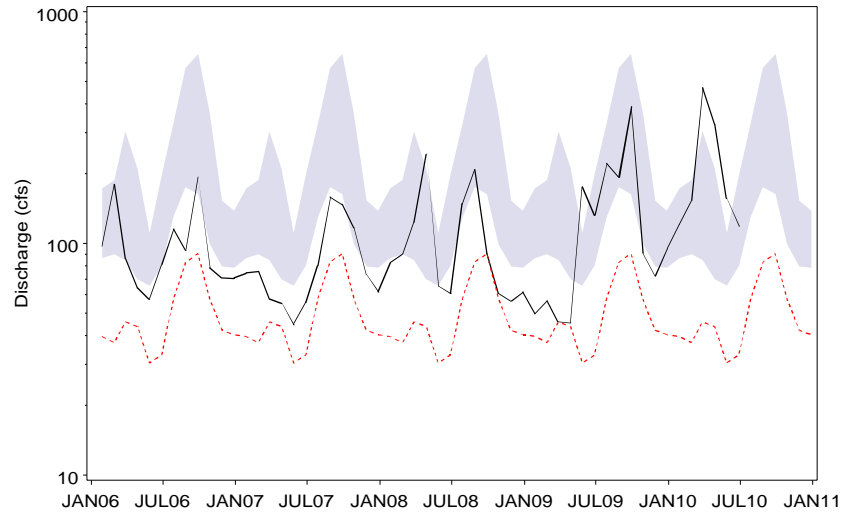
- - - POR Monthly Low

■ Normal Range

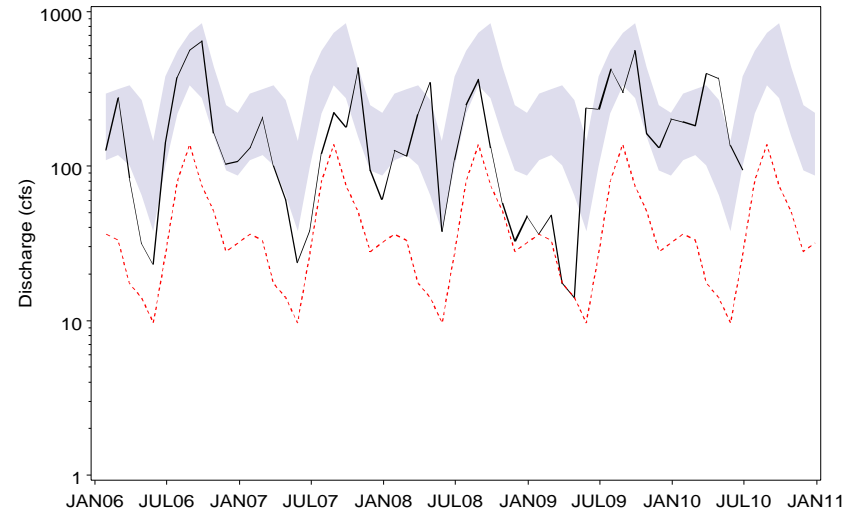
HYDROGRAPHS OF MAJOR STREAMS

JANUARY 2006 TO JUNE 2010

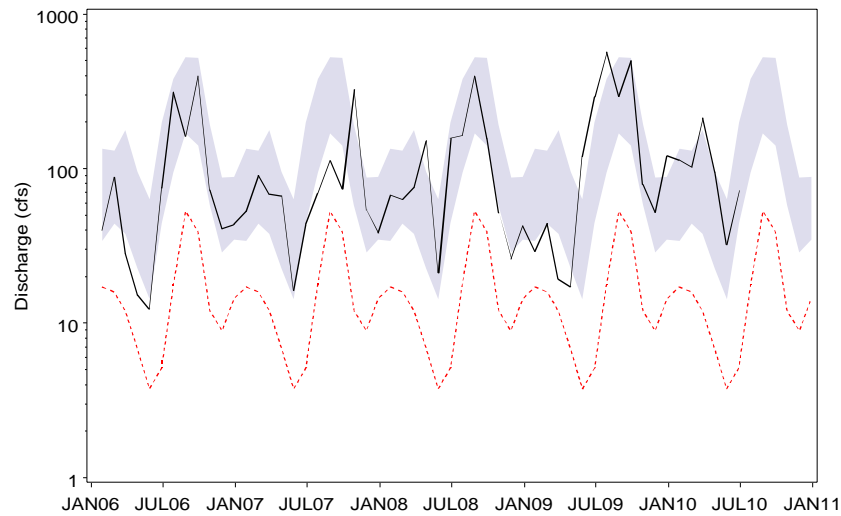
Hillsborough R near Zephyrhills
Central Counties



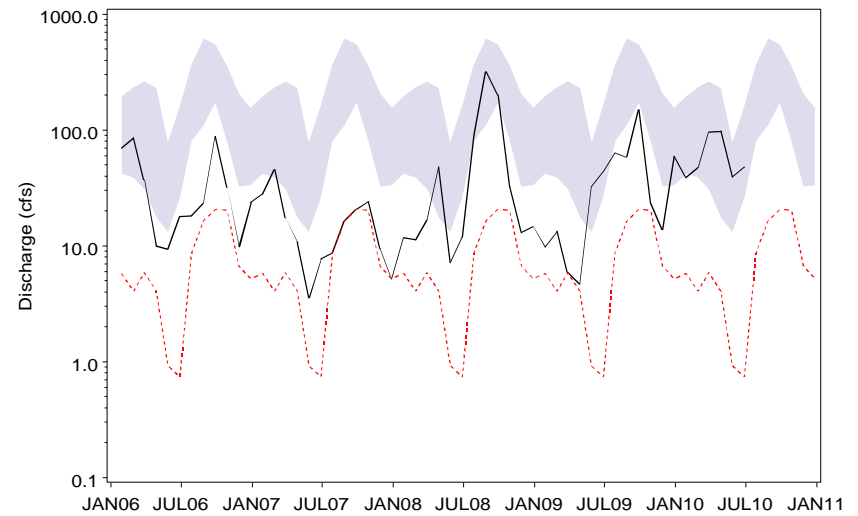
Alafia River at Lithia
Central Counties



Little Manatee R near Wimauma
Central Counties



Peace River at Bartow
Central Counties



— Monthly Mean Discharge

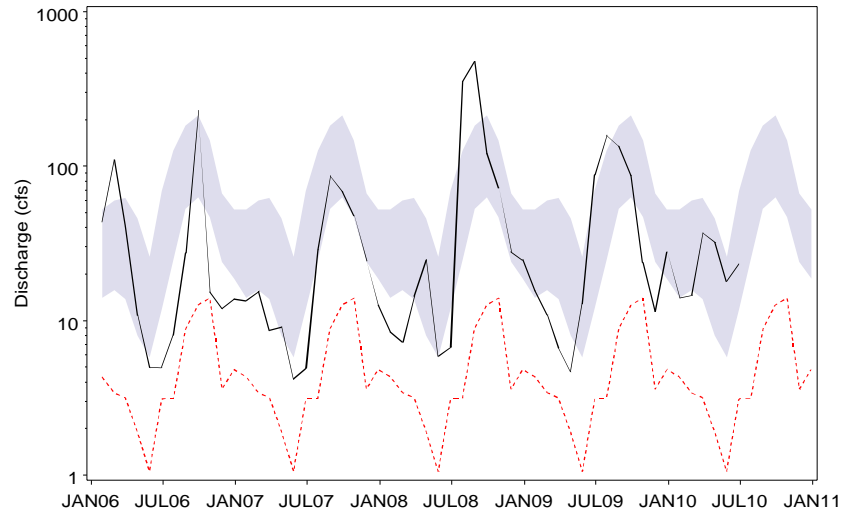
- - - POR Monthly Low

Normal Range

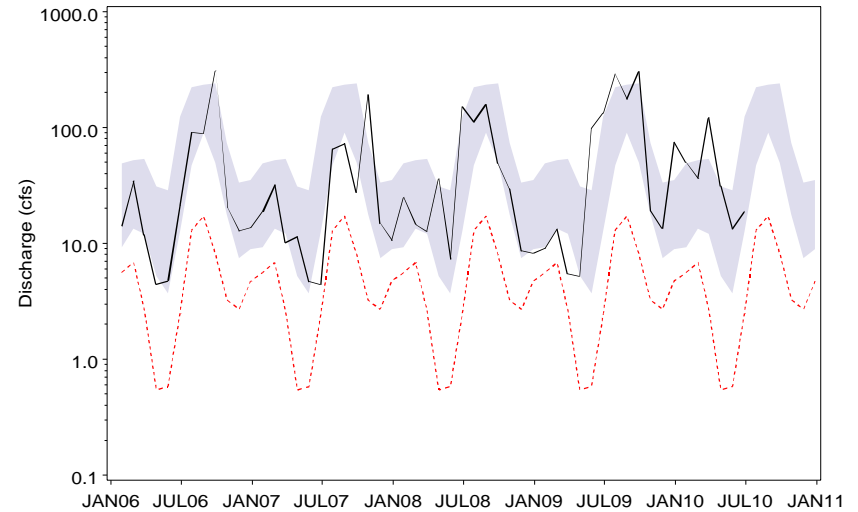
HYDROGRAPHS OF MAJOR STREAMS

JANUARY 2006 TO JUNE 2010

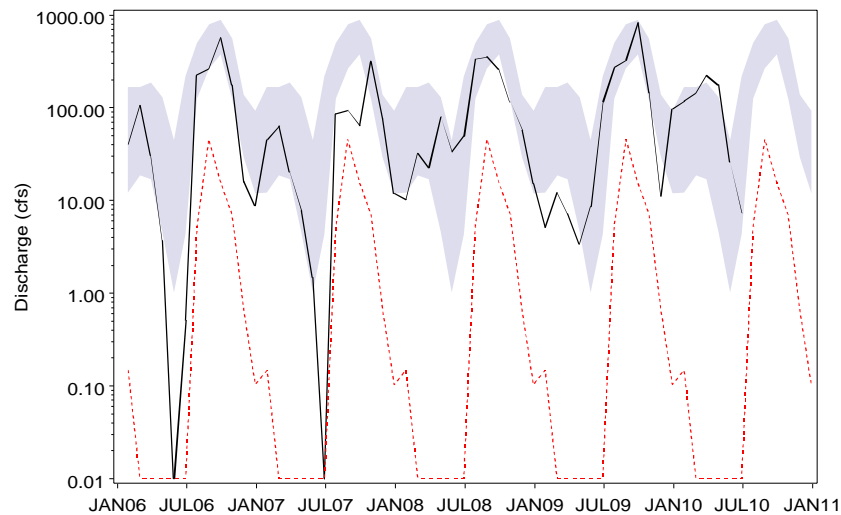
Josephine Cr near DeSoto City
Southern Counties



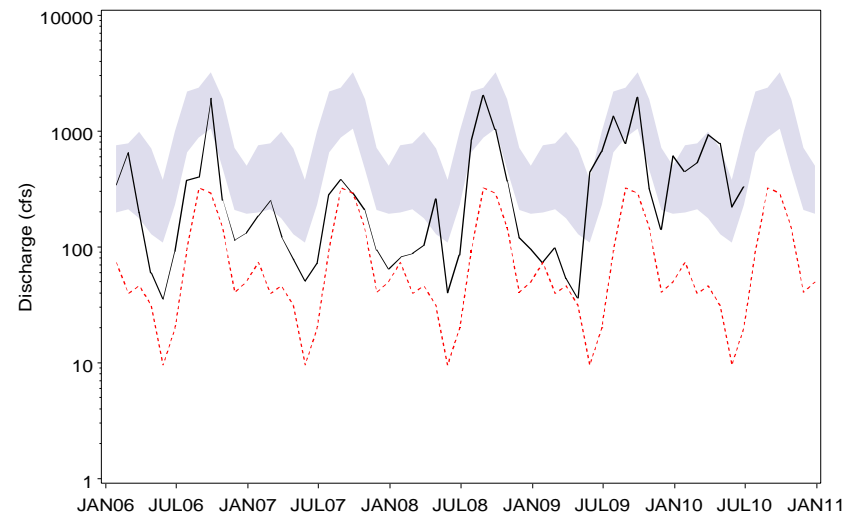
Manatee River near Myakka Head
Southern Counties



Myakka River near Sarasota
Southern Counties



Peace River at Arcadia
Southern Counties



— Monthly Mean Discharge

- - - POR Monthly Low

Normal Range

Springs

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

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

In June, six of the seven stations reported decreased springflow, compared to the previous month. Total springflow decreased in the northern and central regions of the District by 82.9 cfs (53.6 mgd) and 10.7 cfs (6.9 mgd). District-wide, springflow decreased by 93.6 cfs (60.5 mgd).

Total springflow recorded in six of the seven stations was higher in June 2010 than June 2009. Total springflow for the northern and central regions was higher by 103.4 cfs (66.8 mgd) and 15.2 cfs (9.8 mgd), respectively. District-wide, springflow increased by 118.6 cfs (76.6 mgd), compared to June 2009 rates.

Compared to historical period-of-record values for June, total springflow measured in Rainbow, Silver and Weeki Wachee Springs, in the northern region, was in the 22nd, 12th and 56th percentiles of respective historical readings. Springflow measured in Crystal, Sulphur, Buckhorn and Lithia Springs in the central region was in the 80th, 26th, 48th and 94th percentiles, respectively, of historical June readings.

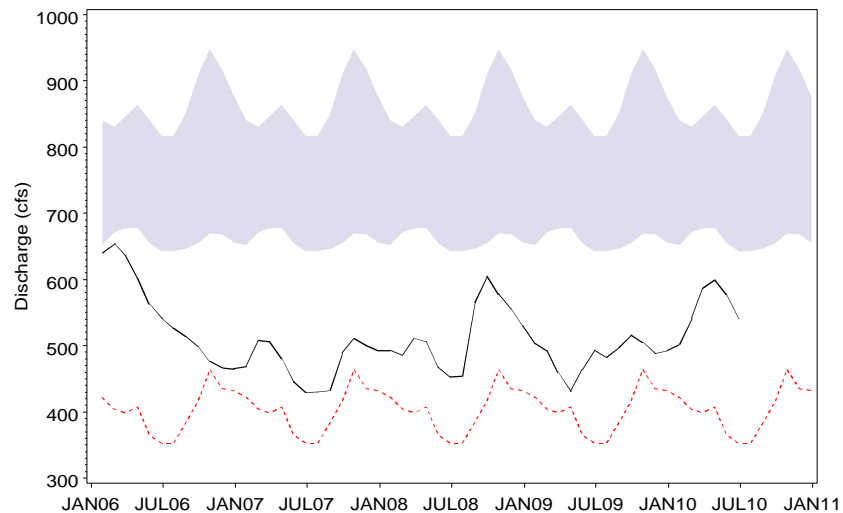
SUMMARY OF SPRINGS DISCHARGE FROM MAJOR SPRINGS (CFS), JUNE 2010

<i>NORTHERN COUNTIES</i>	<i>JUN 2010 Discharge</i>	<i>MAY 2010 Discharge</i>	<i>JUN 2009 Discharge</i>	<i>Change From MAY 2010</i>	<i>Change From JUN 2009</i>	<i>JUN 2010 Percentile Rank</i>	<i>Period of Record Low</i>	<i>Record Low Date</i>	<i>Period of Record High</i>	<i>Record High Date</i>
Rainbow Springs	580.5	623.8	557.4	-43.3	23.1	22%	470.0	JUN2001	1230.0	OCT1964
Silver Springs	557.0	592.4	489.3	-35.4	67.7	12%	352.5	JUN2001	1290.0	OCT1960
Weeki Wachee Springs	139.1	143.3	126.5	-4.2	12.6	56%	101.0	JUN1994	257.0	OCT2004
<i>CENTRAL COUNTIES</i>										
Crystal Springs	45.3	49.8	40.1	-4.5	5.2	80%	1.5	SEP1988	141.5	DEC2002
Sulphur Springs	13.4	16.6	15.4	-3.2	-2.0	26%	0.0	JUN1994	145.0	MAR1960
Buckhorn Springs	11.3	8.3	9.2	3.0	2.1	48%	2.2	MAY2006	32.7	AUG2004
Lithia Springs	42.5	48.5	32.6	-6.0	9.9	94%	6.1	JUN1985	91.5	NOV2004

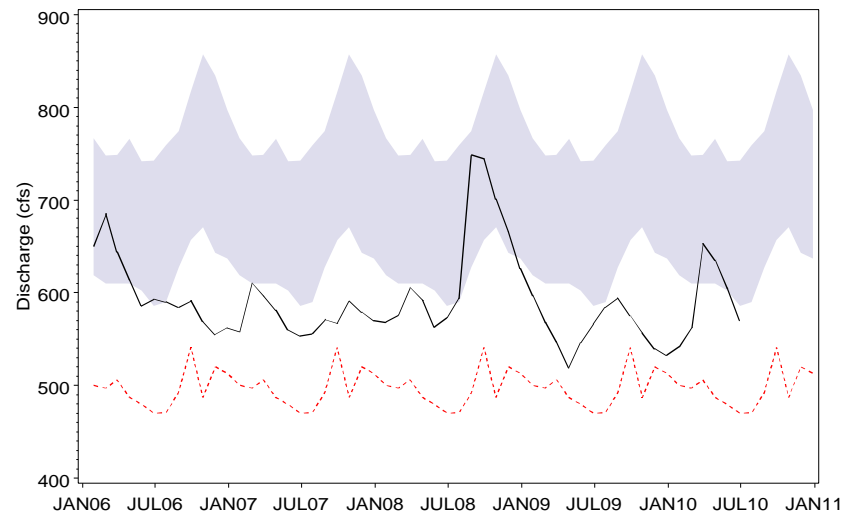
HYDROGRAPHS OF REGIONAL SPRINGS

JANUARY 2006 TO JUNE 2010

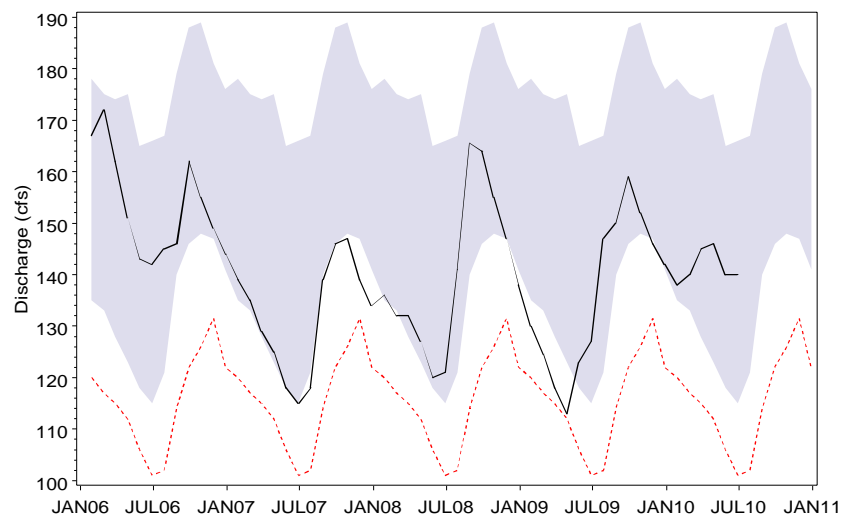
Silver Springs
Northern Counties



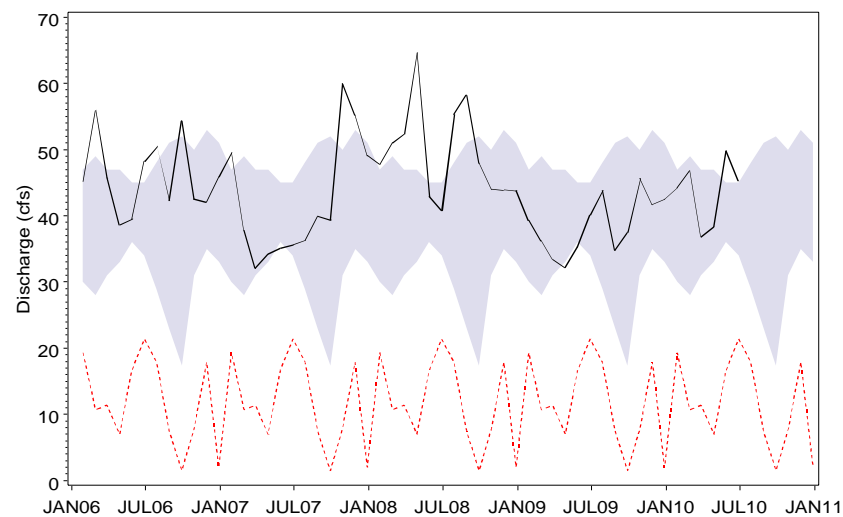
Rainbow Springs
Northern Counties



Weeki Wachee Springs
Northern Counties



Crystal Springs
Central Counties



— Monthly Discharge

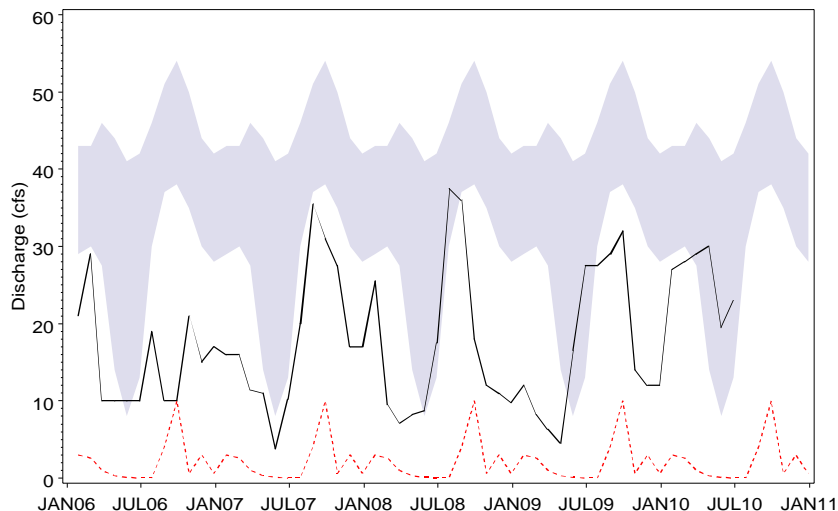
- - - POR Monthly Low

Normal Range

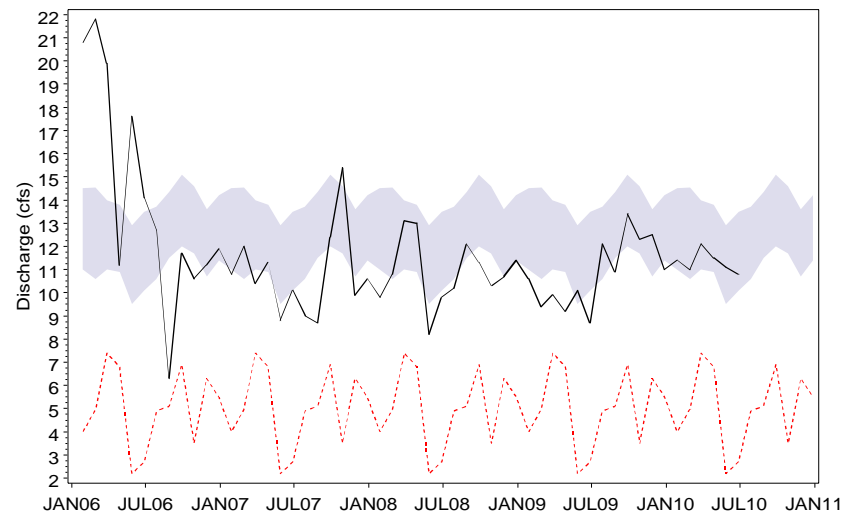
HYDROGRAPHS OF REGIONAL SPRINGS

JANUARY 2006 TO JUNE 2010

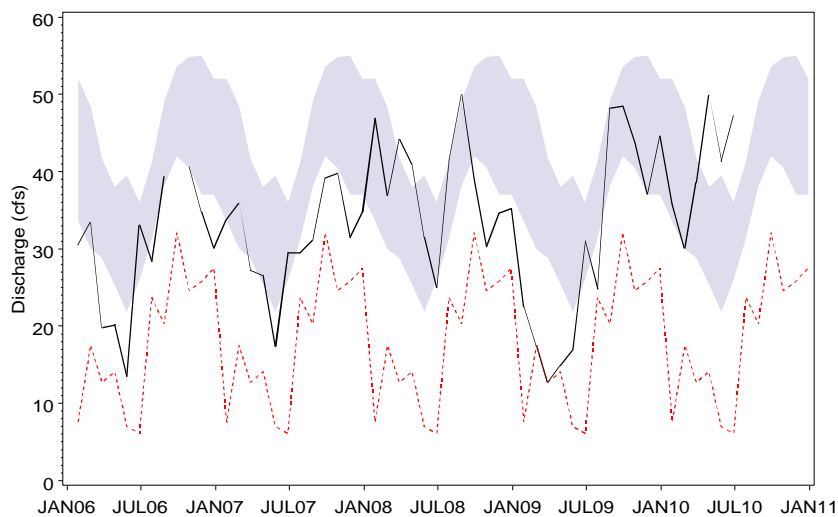
Sulphur Springs
Central Counties



Buckhorn Spring
Central Counties



Lithia Springs
Central Counties



— Monthly Discharge

- - - POR Monthly Low

■ Normal Range

GROUND WATER

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

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

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

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

Surficial Aquifer

During June, seven 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 southern regions of the District by 0.29 foot and 0.02 foot, respectively. In the central region, water levels increased 0.17 foot. District-wide, average surficial aquifer water levels increased by 0.05 foot.

In June, average water levels in eight of the twelve surficial aquifer wells were higher than June 2009 levels. Average surficial aquifer water levels were lower in the northern region by 0.06 foot, while they were higher in the central and southern regions by 0.82 foot and 0.62 foot, respectively. District-wide, average water levels in surficial wells were 0.62 feet higher than June 2009 levels.

At the end of June, water levels were in the normal range in ten of the twelve surficial wells. Average surficial aquifer water levels in the northern, central and southern regions were above the bottom of the normal range by 1.34, 2.42 and 1.21 feet, respectively. District-wide, the average water level in surficial wells was 1.94 feet above the bottom of the normal range.

SUMMARY OF SURFICIAL AQUIFER LEVELS IN REPRESENTATIVE WELLS, JUNE 2010

	<i>JUN 2010 Elev</i>	<i>MAY 2010 Elev</i>	<i>JUN 2009 Elev</i>	<i>Change From MAY 2010</i>	<i>Change From JUN 2009</i>	<i>JUN Historical Low Normal</i>	<i>JUN Historical High Normal</i>	<i>Departure From Low Normal</i>	<i>Period of Record Low</i>	<i>Record Low Date</i>	<i>Period of Record High</i>	<i>Record High Date</i>
<i>NORTHERN COUNTIES</i>												
Green Swamp	89.93	90.35	91.17	-0.42	-1.24	88.02	91.18	1.91	82.95	MAY2000	93.07	SEP1985
Lecanto 2	7.55	7.71	6.43	-0.16	1.12	6.78	8.58	0.77	5.76	MAY2001	13.92	SEP1974
<i>CENTRAL COUNTIES</i>												
Loughman	92.43	92.68	93.23	-0.25	-0.80	90.35	91.89	2.08	88.19	AUG2000	95.79	SEP2004
Lutz-Lake Fern	57.77	57.02	53.98	0.75	3.79	55.45	57.16	2.32	52.64	NOV2009	67.92	MAY1966
ROMP 50 Shallow	41.13	41.14	41.86	-0.01	-0.73	41.13	41.87	-0.00	39.93	MAY1989	44.05	SEP2001
SR 33 & Combee Road	133.63	132.98	132.48	0.65	1.15	132.91	134.67	0.72	129.16	FEB2001	136.97	OCT1995
SR 577 Shallow	123.75	124.51	124.46	-0.77	-0.71	116.06	123.30	7.69	110.18	FEB1991	129.02	AUG2003
Tarpon Road Shallow	11.69	11.75	10.82	-0.06	0.87	10.30	12.72	1.39	9.31	JUN1978	16.30	OCT2006
USGS P-48	100.55	99.68	98.37	0.87	2.18	97.77	99.73	2.78	67.61	JUN1963	104.79	SEP2004
<i>SOUTHERN COUNTIES</i>												
Edgeville 4 Shallow	66.69	66.55	66.44	0.14	0.25	66.88	68.68	-0.19	63.85	MAY1975	69.93	SEP1971
ROMP 26 Shallow	70.08	70.05	68.68	0.03	1.40	67.54	69.85	2.54	64.32	JUN1999	75.11	JUN1982
SR 74	15.91	16.14	15.70	-0.23	0.21	14.64	16.33	1.27	12.66	MAY2000	18.32	JUL2001

Intermediate and Floridan Aquifers

In June, 30 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 of the District by 0.54 foot and 0.13 foot, respectively. In the southern region water levels increased 1.63 feet. District-wide, the mean water level in the intermediate and Floridan aquifer wells increased 0.41 foot.

During June, water levels in 35 of the 51 intermediate and Floridan aquifer wells were higher than those measured in June 2009. Regionally, the mean water level in the northern and central regions were 1.07 and 2.39 feet, respectively, higher than June 2009 levels. In the southern region, water levels decreased 0.01 foot. District-wide, average water levels in intermediate and Floridan aquifer wells were 1.13 feet higher than last year.

For June, 45 of the 51 intermediate and Floridan aquifer wells had levels within the normal range, compared to historical monthly levels. Regionally, the average water level in the northern, central and southern regions was 0.75 foot, 4.06, and 2.63 feet, respectively, above the bottom of the normal range. District-wide, the average water level in intermediate and Floridan aquifer wells was 2.62 feet above the bottom of the normal range.

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

Regional Summary:

<i>Region</i>	<i>JUN 2010 Mean Elevation</i>	<i>JUN 2010 Relation to POR Median</i>	<i>JUN 2010 Relation to 25th Percentile</i>	<i>JUN 2010 Mean Percentile Rank</i>	<i>MAY 2010 Mean Percentile Rank</i>	<i>JUN 2009 Mean Percentile Rank</i>
Northern Counties	37.10	-0.38	1.22	43%	51%	31%
Central Counties	55.07	0.81	3.70	60%	72%	40%
Southern Counties	29.17	-0.52	2.98	46%	60%	45%

Regional Wells Summary:

<i>NORTHERN COUNTIES</i>	<i>JUN 2010 Elev</i>	<i>MAY 2010 Elev</i>	<i>JUN 2009 Elev</i>	<i>Change From MAY 2010</i>	<i>Change From JUN 2009</i>	<i>JUN Historical Low Normal</i>	<i>JUN Historical High Normal</i>	<i>Departure From Low Normal</i>	<i>JUN 2010 Percentile Rank</i>	<i>Period of Record Low</i>	<i>Record Low Date</i>	<i>Period of Record High</i>	<i>Record High Date</i>
CE 14 Dunnellon Deep	40.79	42.13	36.14	-1.34	4.65	37.57	42.34	3.22	66%	34.14	JUN2001	50.90	MAR1998
Chassahowitzka 1 Deep	6.05	6.20	5.82	-0.15	0.23	5.83	6.83	0.22	37%	4.68	JUN2001	9.75	SEP2004
Inverness Dot Fldn	27.86	28.34	25.31	-0.48	2.55	27.76	30.82	0.10	27%	21.63	JUN2001	37.80	OCT1982
Mascotte Deep	99.08	99.76	99.05	-0.68	0.03	98.79	100.46	0.29	35%	93.61	JUN2000	102.66	SEP1988
ROMP 103 Suwannee/Ocala	38.29	38.94	35.21	-0.65	3.08	37.56	42.15	0.73	29%	33.75	MAY2009	51.03	OCT2004
ROMP 107 Ocala/Avon Park	11.09	11.24	9.32	-0.15	1.77	10.84	13.54	0.25	35%	8.05	AUG2007	19.78	NOV1982
ROMP 134 Ocala/Avon Park	44.13	44.51	43.37	-0.38	0.76	43.50	49.05	0.63	31%	38.71	JUL2002	57.37	APR1998
ROMP 89 Ocala	90.22	91.57	93.04	-1.35	-2.82	88.48	91.81	1.74	52%	82.42	JUN2000	94.99	DEC1997
ROMP 97 Avon Park	15.16	15.58	13.34	-0.42	1.82	14.88	19.37	0.28	31%	11.84	MAY2009	26.24	SEP2004
ROMP Tr 124 Avon Park	3.36	3.28	2.80	0.08	0.56	2.25	3.28	1.11	78%	0.77	SEP2004	6.11	AUG1985
ROMP Tr 21-2 Ocala/Avon Pk	2.26	1.81	2.28	0.45	-0.02	1.54	2.06	0.72	87%	0.03	FEB2001	4.56	NOV1987
Sumter 13 JC 59 Up Fldn	40.74	42.22	39.67	-1.48	1.07	39.45	42.76	1.29	44%	36.84	JUL2007	47.01	JUN2003
Webster City Fldn	80.59	81.36	80.39	-0.77	0.20	79.81	83.83	0.78	30%	74.48	JUL1981	88.77	SEP2005
Weeki Wachee Deep	13.17	13.41	12.11	-0.24	1.06	14.05	17.39	-0.88	13%	10.67	MAY2009	23.91	AUG1984

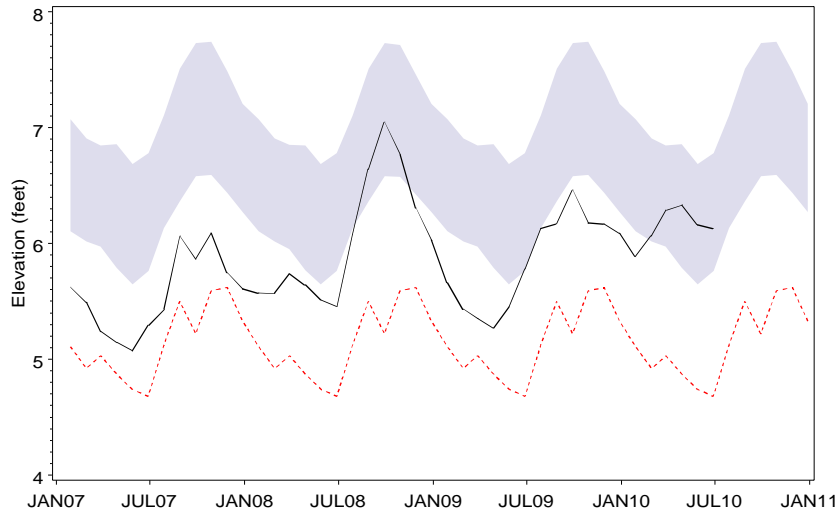
Regional Wells Summary (continued):

	<i>JUN</i> <i>2010</i> <i>Elev</i>	<i>MAY</i> <i>2010</i> <i>Elev</i>	<i>JUN</i> <i>2009</i> <i>Elev</i>	<i>Change</i> <i>From</i> <i>MAY</i> <i>2010</i>	<i>Change</i> <i>From</i> <i>JUN</i> <i>2009</i>	<i>JUN</i> <i>Historical</i> <i>Low</i> <i>Normal</i>	<i>JUN</i> <i>Historical</i> <i>High</i> <i>Normal</i>	<i>Departure</i> <i>From</i> <i>Low</i> <i>Normal</i>	<i>JUN</i> <i>2010</i> <i>Percentile</i> <i>Rank</i>	<i>Period of</i> <i>Record</i> <i>Low</i>	<i>Record</i> <i>Low</i> <i>Date</i>	<i>Period of</i> <i>Record</i> <i>High</i>	<i>Record</i> <i>High</i> <i>Date</i>
CENTRAL COUNTIES													
Bexley 2 Fldn	61.94	61.22	60.12	0.72	1.82	58.94	61.57	3.00	84%	56.08	JUN2000	64.07	SEP1988
Hills State Pk Parking Deep	37.76	39.19	38.55	-1.43	-0.79	36.79	38.83	0.97	50%	35.35	JUN2000	47.42	DEC1997
Lk Alfred Deep nr Lake Alfre	127.40	127.22	127.40	0.18	0.00	125.55	127.95	1.85	64%	120.14	MAY1981	131.62	OCT1960
Lykes Pasco Fldn	65.14	65.80	62.45	-0.66	2.69	61.45	66.84	3.69	55%	56.94	JUN2000	75.78	OCT2004
Masaryktown Deep	25.06	25.18	22.66	-0.12	2.40	28.45	35.94	-3.39	10%	21.89	AUG1994	50.32	SEP1984
Moon Lake Deep	30.22	30.56	27.31	-0.34	2.91	28.62	30.76	1.60	62%	26.10	JUN2000	34.38	MAR1998
Pasco Well 13 nr Drexel Fldn	71.77	72.42	69.57	-0.65	2.20	71.25	73.54	0.52	35%	68.00	JUN2001	77.14	JUL1960
Pinellas 665 Fldn	9.25	9.39	8.78	-0.14	0.47	8.79	10.75	0.46	45%	6.70	MAY2006	14.79	SEP1959
ROMP 45 Avon Park	68.73	67.02	63.98	1.71	4.75	51.50	63.41	17.23	92%	31.75	MAY1981	84.42	OCT2004
ROMP 50 Avon Park	2.64	3.20	-0.44	-0.56	3.08	-3.08	3.85	5.72	65%	-17.09	JAN2005	14.95	AUG1982
ROMP 59 Swnn/AvPk	69.94	68.37	64.92	1.57	5.02	52.56	63.80	17.38	93%	33.33	MAY1981	85.92	OCT2004
ROMP 66 Tampa	17.70	18.25	17.36	-0.55	0.34	15.43	18.06	2.27	69%	12.04	JUN1977	24.51	DEC1997
ROMP 87 Avon Park	102.28	102.27	102.78	0.01	-0.50	99.58	102.82	2.70	67%	94.90	JUN2000	106.30	FEB1998
ROMP 93 Swnn/AvPk	67.65	67.84	63.06	-0.19	4.59	64.54	72.15	3.11	36%	59.02	JUN2001	76.60	SEP1982
SR 52 Deep W nr Fivay Jct	52.82	52.75	50.48	0.07	2.34	51.13	52.87	1.69	74%	48.08	JUN2000	56.75	SEP1988
SR 577 Deep	84.80	86.75	78.03	-1.95	6.77	82.66	90.54	2.14	39%	72.76	JUN2000	98.51	MAR1998
Sanlon Ranch Fldn	93.05	92.73	88.43	0.32	4.62	81.22	89.77	11.83	90%	66.38	MAY1975	105.27	OCT2004
Tarpon Rd Deep	9.69	10.04	9.37	-0.35	0.32	9.33	10.40	0.36	41%	6.95	MAY2007	13.06	SEP1971

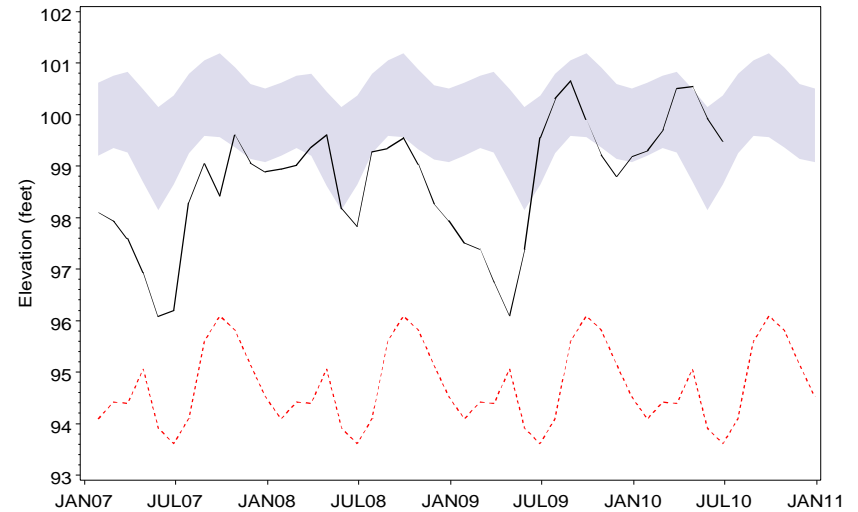
	<i>JUN</i> <i>2010</i> <i>Elev</i>	<i>MAY</i> <i>2010</i> <i>Elev</i>	<i>JUN</i> <i>2009</i> <i>Elev</i>	<i>Change</i> <i>From</i> <i>MAY</i> <i>2010</i>	<i>Change</i> <i>From</i> <i>JUN</i> <i>2009</i>	<i>JUN</i> <i>Historical</i> <i>Low</i> <i>Normal</i>	<i>JUN</i> <i>Historical</i> <i>High</i> <i>Normal</i>	<i>Departure</i> <i>From</i> <i>Low</i> <i>Normal</i>	<i>JUN</i> <i>2010</i> <i>Percentile</i> <i>Rank</i>	<i>Period of</i> <i>Record</i> <i>Low</i>	<i>Record</i> <i>Low</i> <i>Date</i>	<i>Period of</i> <i>Record</i> <i>High</i>	<i>Record</i> <i>High</i> <i>Date</i>
SOUTHERN COUNTIES													
Big Slough Deep	32.55	31.87	30.89	0.68	1.66	30.81	32.85	1.74	69%	26.82	MAY2006	36.12	OCT1995
Edgeville 3 Deep	24.74	21.20	25.59	3.54	-0.85	23.04	31.73	1.70	34%	1.13	MAY2000	46.40	OCT1965
Englewood 14 Deep	5.56	6.71	4.59	-1.15	0.97	2.20	5.39	3.36	77%	-0.97	FEB2001	11.37	SEP1974
Florida Cities Test 1	0.79	4.07	2.14	-3.28	-1.35	3.82	13.94	-3.03	18%	-18.63	MAY1976	25.89	SEP1977
Kibler Deep	7.13	-2.18	9.08	9.31	-1.95	2.72	15.06	4.41	41%	-29.95	MAY2000	29.30	AUG1978
Manasota 14 Deep	17.62	18.11	17.39	-0.49	0.23	18.96	20.93	-1.34	6%	14.88	JUL2004	22.70	NOV1971
Marshall Deep	41.93	39.56	40.28	2.37	1.65	35.95	43.22	5.98	64%	8.96	JUN2000	55.24	MAR1964
ROMP 16 Ocala	47.71	46.49	47.67	1.22	0.04	46.16	48.58	1.55	53%	28.94	JAN2001	51.21	SEP1995
ROMP 26 Swnn/AvPk	46.11	43.44	44.66	2.67	1.45	41.26	46.22	4.85	74%	19.48	JAN2010	51.28	OCT1979
ROMP 28X Swnn/AvPk	68.30	67.64	69.26	0.66	-0.96	66.66	69.89	1.64	49%	57.24	JAN2010	74.68	OCT1995
ROMP 30 Swnn/AvPk	44.86	42.36	41.98	2.50	2.88	32.69	43.82	12.17	79%	-0.20	JUN2000	60.52	MAR1998
ROMP 31 Swnn/AvPk	39.51	36.31	36.07	3.20	3.44	27.48	39.98	12.03	74%	-8.20	JUN2000	57.92	MAR1998
ROMP 32 L Ocala/Avon Park	20.34	17.22	21.10	3.12	-0.76	14.97	26.72	5.37	47%	-17.54	JUN2000	44.72	FEB1998
ROMP 43XX Avon Park	85.00	82.66	85.69	2.34	-0.69	84.12	87.97	0.88	35%	70.93	JAN2010	94.60	MAR1998
ROMP Tr 5-1 Suwannee	18.04	18.91	18.12	-0.87	-0.08	17.46	19.63	0.58	34%	13.26	JUN2000	23.00	SEP1983
ROMP Tr 7-1 Tampa	16.85	16.99	17.39	-0.14	-0.54	15.31	17.94	1.54	57%	10.08	JUN2000	23.56	SEP2003
Sarasota 11th St Deep	5.17	6.00	7.03	-0.83	-1.86	6.08	10.31	-0.91	17%	0.39	MAY2000	30.76	MAY2010
Sarasota 9 Deep	14.15	14.21	15.44	-0.06	-1.29	18.19	29.93	-4.04	13%	0.31	JUN2000	38.76	MAR1931
Verna Test 0-1	11.13	5.00	13.39	6.13	-2.26	9.70	20.35	1.43	31%	-18.05	MAY2000	33.32	JAN1984

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

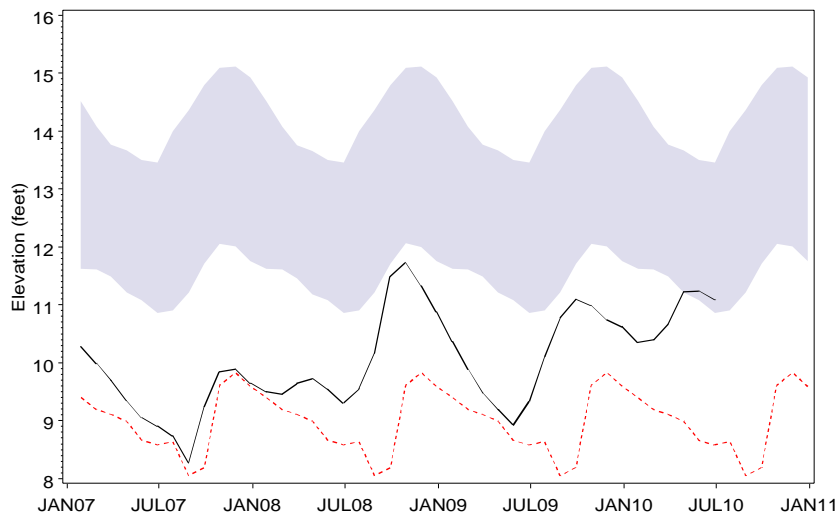
Chassahowitzka 1 Deep
Northern Counties



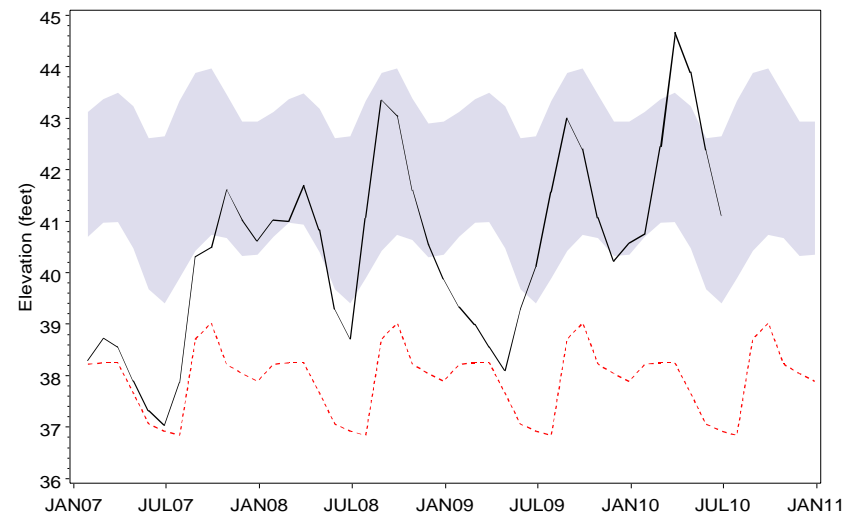
Mascotte Deep
Northern Counties



ROMP 107 Ocala/Avon Park
Northern Counties



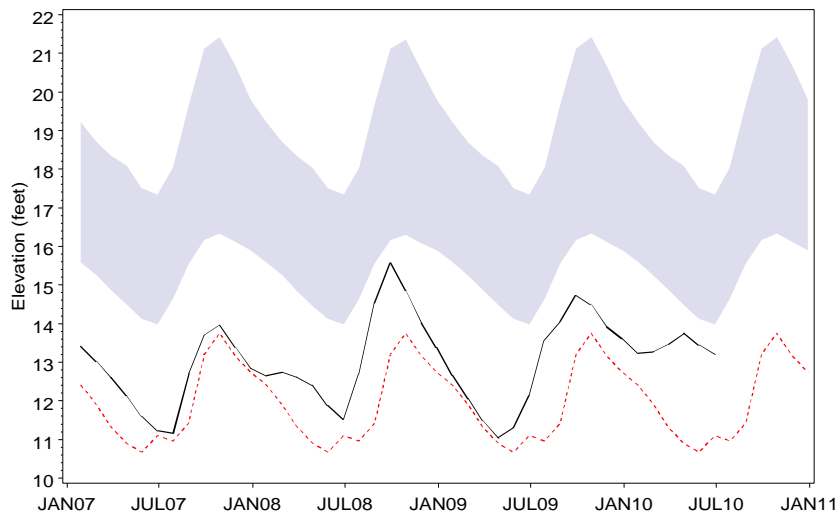
Sumter 13 JC 59 Up Fldn
Northern Counties



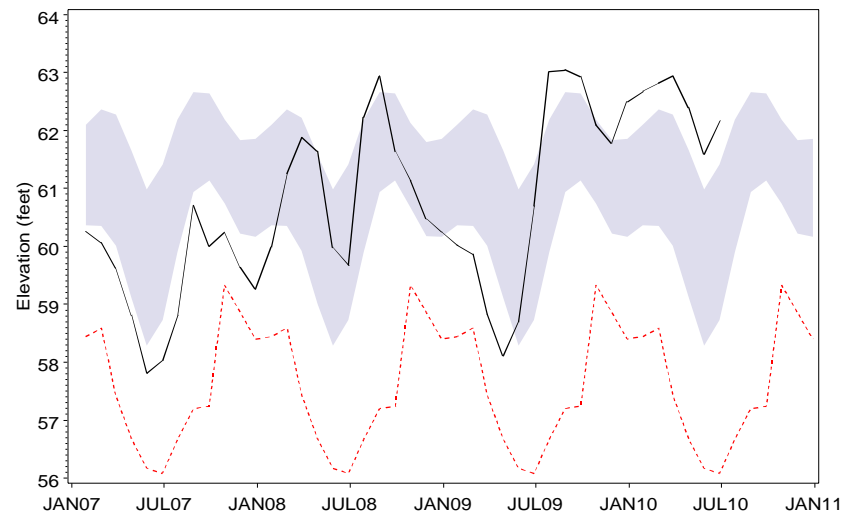
— Average Monthly Elevation - - - - - POR Monthly Low Normal Range

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

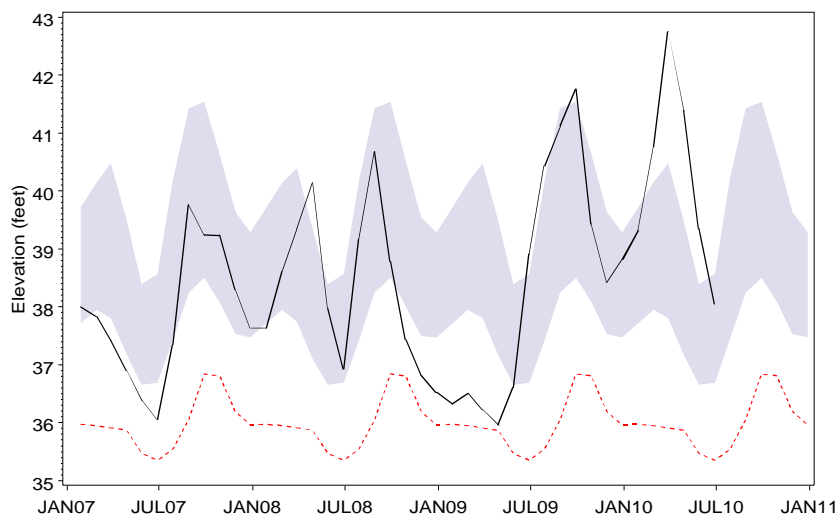
Weeki Wachee Deep
Northern Counties



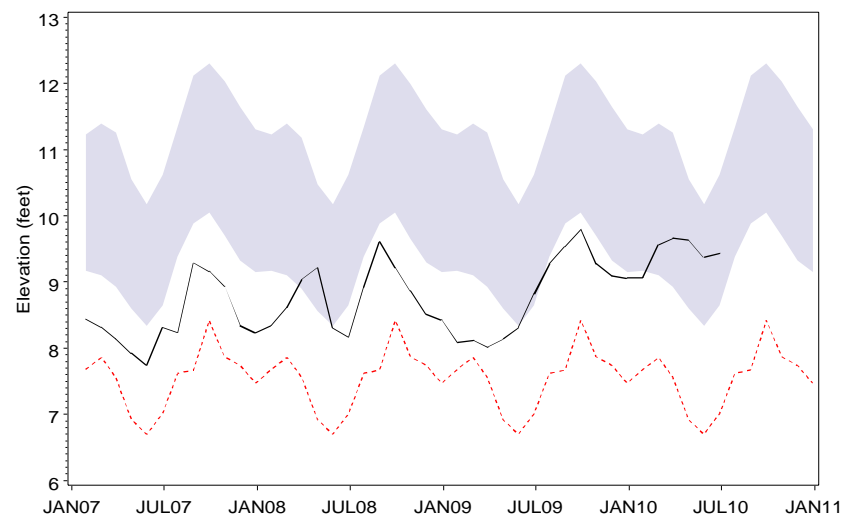
Bexley 2 Fldn
Central Counties



Hills State Pk Parking Deep
Central Counties



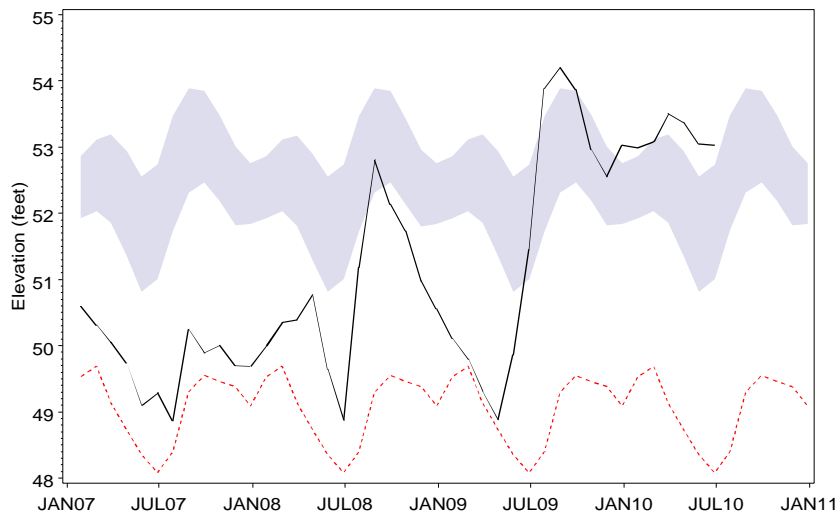
Pinellas 665 Fldn
Central Counties



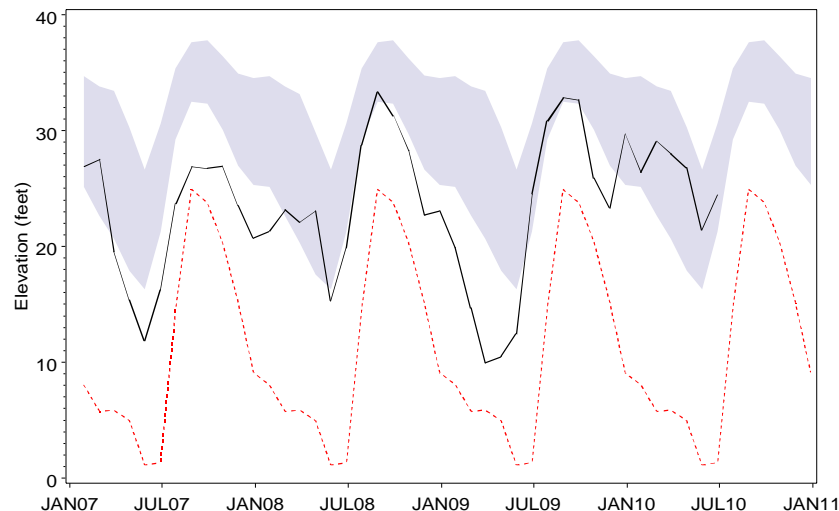
— Average Monthly Elevation - - - - - POR Monthly Low Normal Range

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

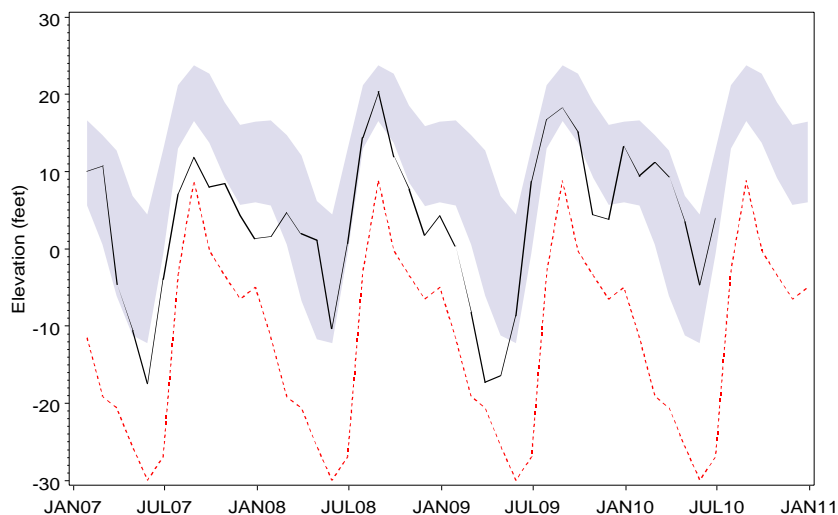
SR 52 Deep W nr Fivay Jct
Central Counties



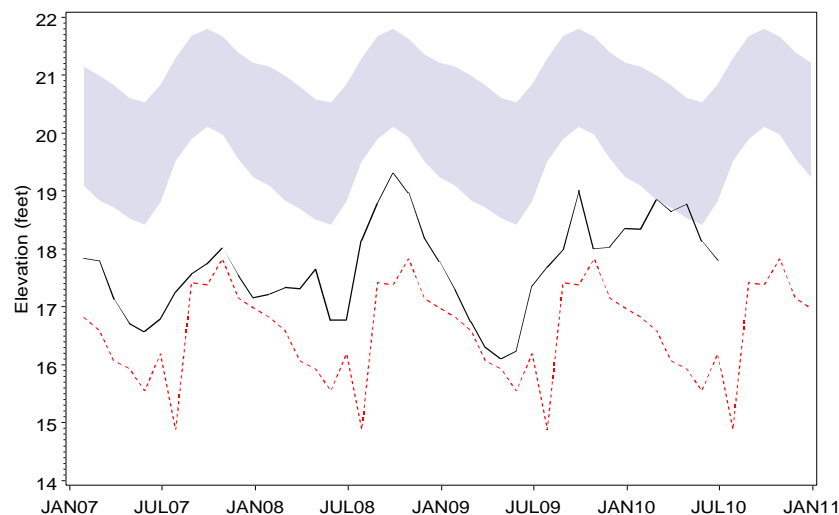
Edgeville 3 Deep
Southern Counties



Kibler Deep
Southern Counties



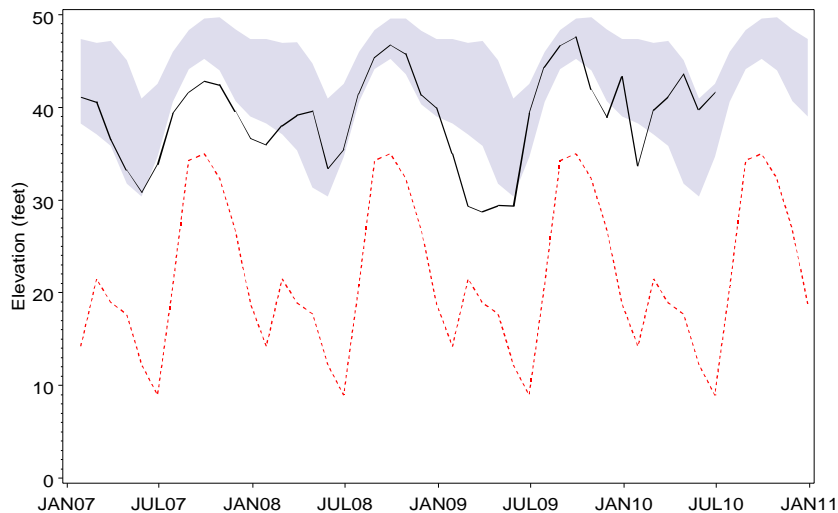
Manasota 14 Deep
Southern Counties



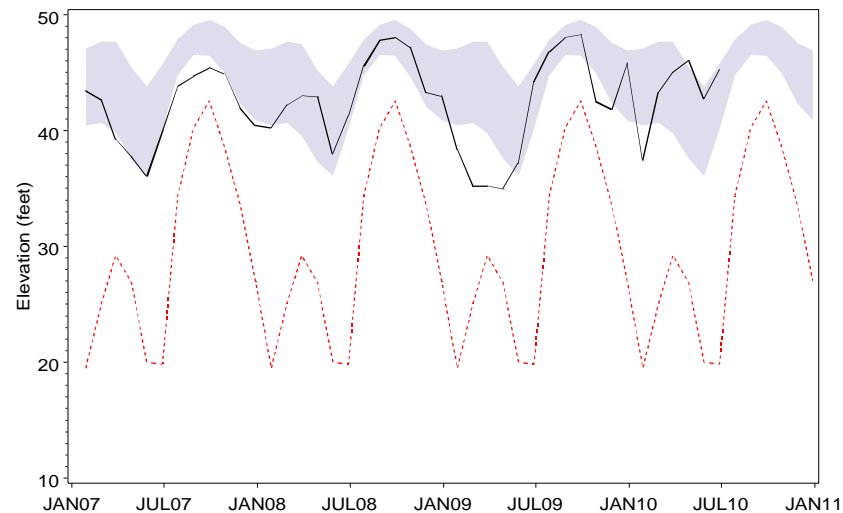
— Average Monthly Elevation - - - - - POR Monthly Low Normal Range

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

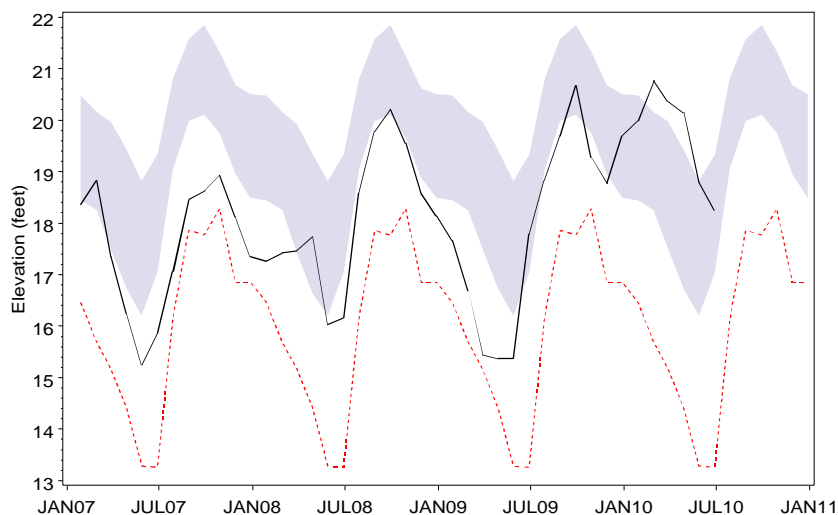
Marshall Deep
Southern Counties



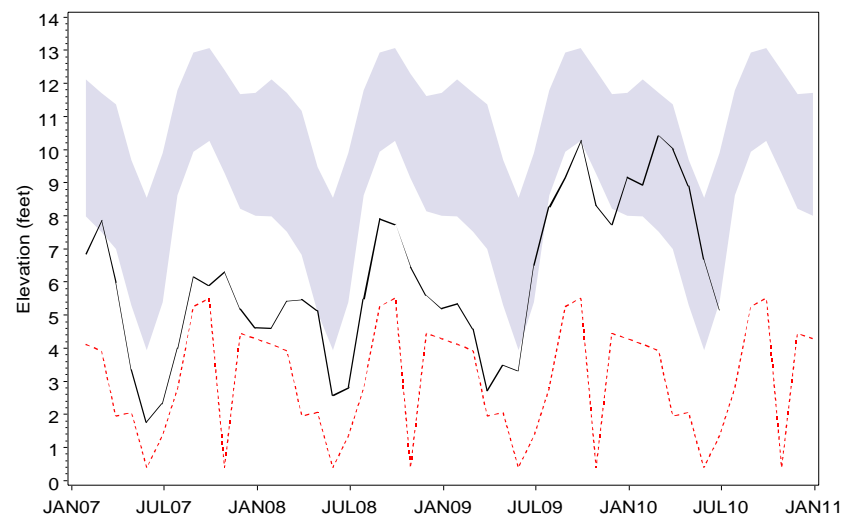
ROMP 26 Suwannee/Avon Park
Southern Counties



ROMP Tr 5-1 Suwannee
Southern Counties

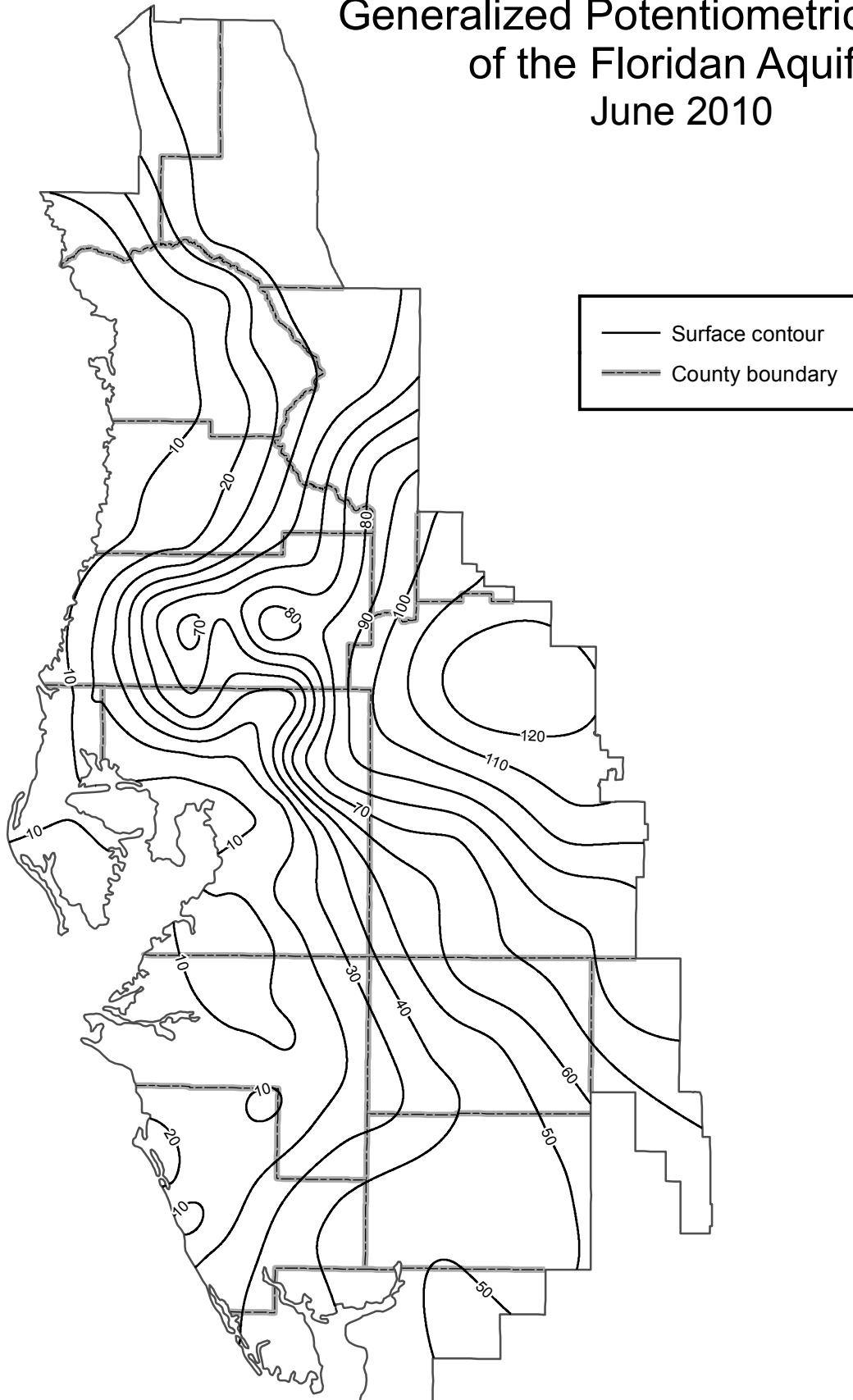


Sarasota 11th St Deep
Southern Counties



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

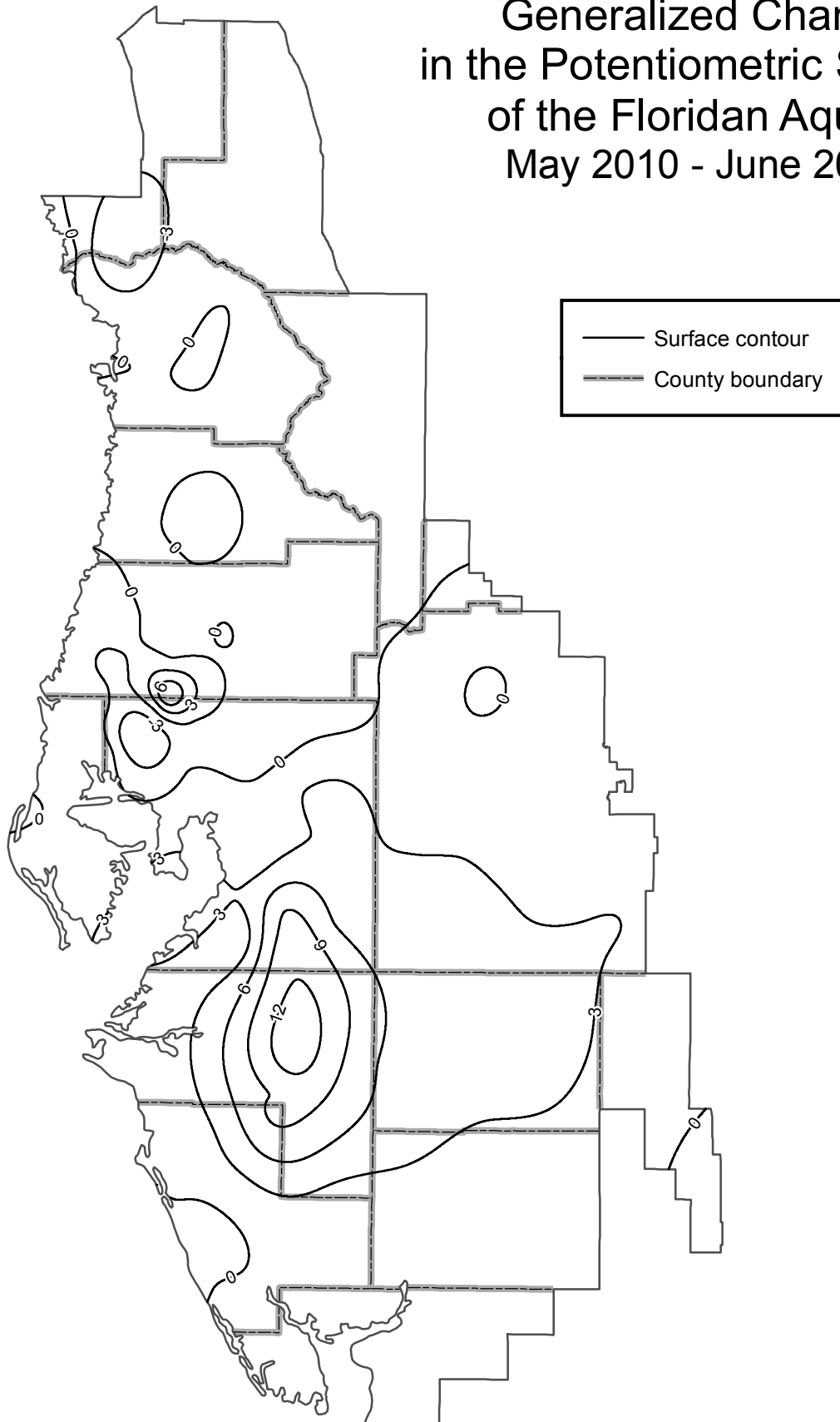
Generalized Potentiometric Surface of the Floridan Aquifer June 2010



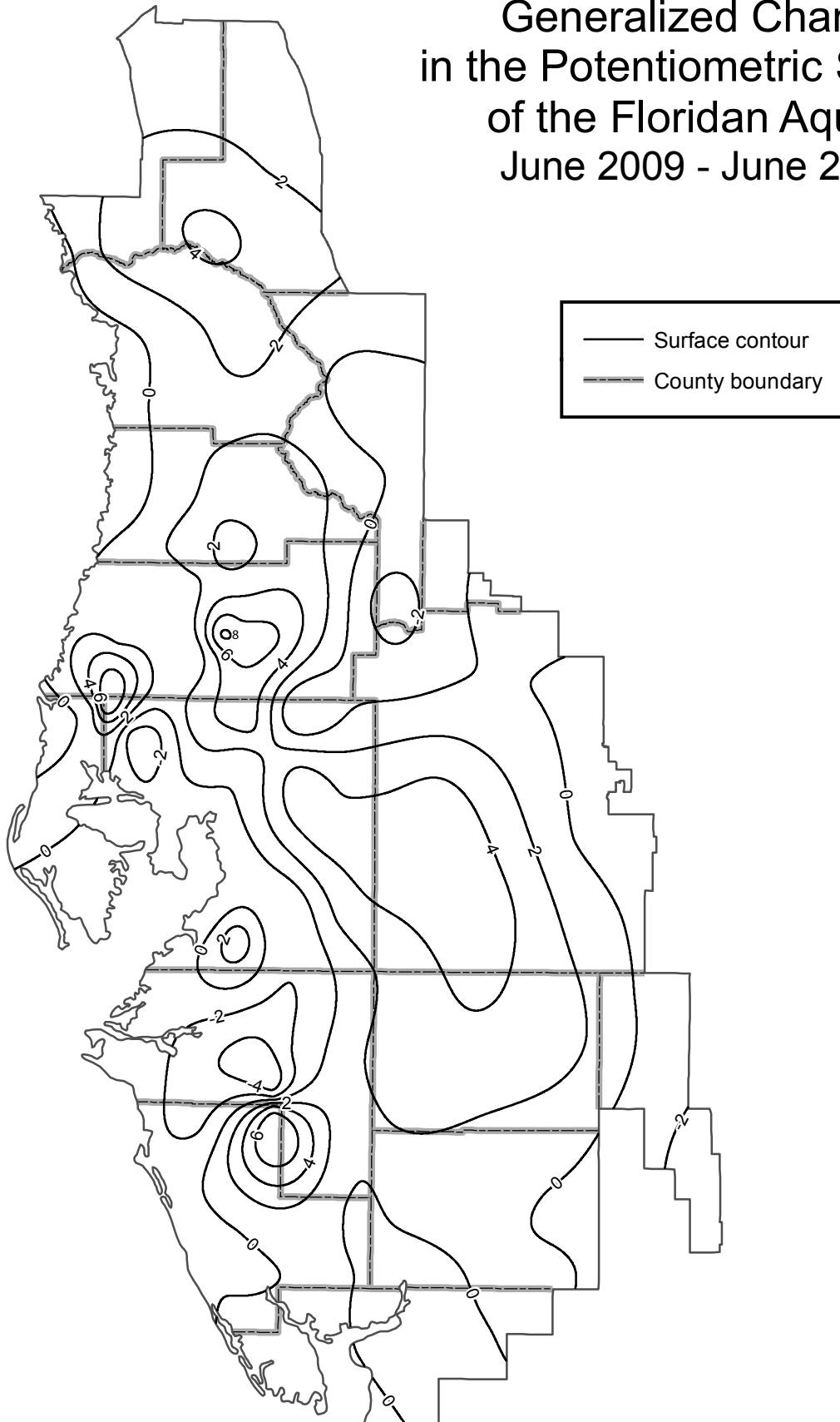
Compiled by M. L. Crowell

Contour interval = 10 feet

Generalized Change in the Potentiometric Surface of the Floridan Aquifer May 2010 - June 2010



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



Public Supply Wellfields

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

During June, average water levels decreased in ten of the twelve intermediate and Floridan wells and six of the nine surficial wells. However, average water levels measured in the intermediate and Floridan wells increased 0.38 foot, while levels measured in surficial wells decreased 0.25 foot.

In June, average water levels in nine of the twelve intermediate and Floridan wells and all nine surficial wells were above those measured in June 2009. Water levels measured in the intermediate and Floridan wells averaged 2.63 feet above last year's levels, while surficial water levels averaged 4.10 feet above June 2009 levels.

At the end of June, average water levels in all twelve intermediate and Floridan wells and all nine surficial wells were above the low normal level, compared to historical monthly levels. Water levels measured in the intermediate and Floridan wells averaged 8.18 feet above the base of the normal range, while levels in the surficial wells averaged 4.78 feet above the base of the normal range.

SUMMARY OF GROUNDWATER LEVELS IN REPRESENTATIVE WELLFIELD WELLS, JUNE 2010

	<i>JUN 2010 Elev</i>	<i>MAY 2010 Elev</i>	<i>JUN 2009 Elev</i>	<i>Change From MAY 2010</i>	<i>Change From JUN 2009</i>	<i>JUN Historical Low Normal</i>	<i>JUN Historical High Normal</i>	<i>Departure From Low Normal</i>	<i>Period of Record Low</i>	<i>Record Low Date</i>	<i>Period of Record High</i>	<i>Record High Date</i>
<i>INT/FLORIDAN WELLS</i>												
Cosme-Odesa Cosme No. 3	28.46	28.71	24.55	-0.25	3.90	20.41	24.88	8.05	10.94	MAY2000	88.88	OCT1986
Cross Bar WRW	40.88	41.55	39.33	-0.67	1.55	38.93	50.29	1.95	33.88	DEC1993	61.65	AUG1984
Cypress Crk TMR-1 Deep	55.97	56.58	52.08	-0.61	3.89	45.60	57.28	10.37	36.93	FEB2001	70.87	JUN1976
Cypress Crk TMR-3 Deep	55.09	55.53	50.70	-0.43	4.40	44.08	54.53	11.01	34.22	FEB2001	68.74	JUL1976
Eldridge-Wilde 11 Deep	20.39	19.99	13.69	0.40	6.70	8.53	14.65	11.86	0.31	SEP1990	24.22	AUG1966
Eldridge-Wilde 2S	19.62	19.76	16.22	-0.15	3.40	6.63	14.73	12.99	-1.16	JUN2000	25.24	OCT1982
Morris Bridge 3A Deep	31.84	32.76	26.28	-0.92	5.56	23.96	28.93	7.88	17.91	MAY2009	36.99	DEC1997
Section 21 Hills 13 Deep	41.59	42.29	41.79	-0.70	-0.19	33.29	44.54	8.30	21.88	JUN2002	52.08	JUL1944
South Pasco 42	45.97	46.56	49.37	-0.59	-3.40	38.74	44.57	7.23	27.98	MAY2002	56.79	SEP2003
South Pasco SR 54 Deep	48.16	49.10	51.15	-0.94	-2.99	43.32	50.74	4.84	33.49	MAY2002	57.94	SEP2003
Starkey Regional	34.70	34.94	29.30	-0.24	5.40	28.34	32.51	6.36	24.97	JUN2000	37.55	SEP2004
Verna 08	9.62	-0.07	6.29	9.69	3.33	2.26	14.12	7.36	-24.32	MAY1989	43.27	APR1964
<i>SURFICIAL WELLS</i>												
Cosme-Odesa IC-6	37.69	37.61	35.74	0.07	1.94	34.58	36.88	3.11	31.91	JUL1973	42.72	SEP1988
Cross Bar SERW	60.18	60.13	58.51	0.05	1.67	57.32	66.41	2.85	53.09	JUL1994	72.53	JUL1984
Cypress Crk TMR-1 Shallow	56.18	56.97	52.02	-0.78	4.16	54.24	58.97	1.94	40.07	JUN2001	69.53	JUL1976
Cypress Crk TMR-3 Shallow	55.08	55.87	53.75	-0.79	1.33	53.76	57.80	1.32	53.55	MAY1997	64.80	JUN2003
Eldridge-Wilde 11 Shallow	24.54	24.80	18.90	-0.26	5.64	15.46	20.31	9.08	10.77	JUN1994	29.34	SEP2004
Morris Bridge 3A Shallow	33.27	33.92	26.77	-0.65	6.50	28.37	33.32	4.90	24.02	MAY2009	39.20	DEC1997
Section 21 Hills 13 Shallow	50.60	49.72	42.21	0.88	8.39	38.56	48.38	12.04	33.81	MAY2001	53.78	SEP1979
South Pasco SR 54 Shallow	59.06	59.13	56.68	-0.07	2.38	55.77	57.76	3.29	54.43	OCT1980	60.49	SEP1998
Starkey 707	29.71	30.39	24.81	-0.68	4.90	25.19	28.95	4.52	22.70	JUN2000	33.85	MAR1998

Aquifer Resource Index

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

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

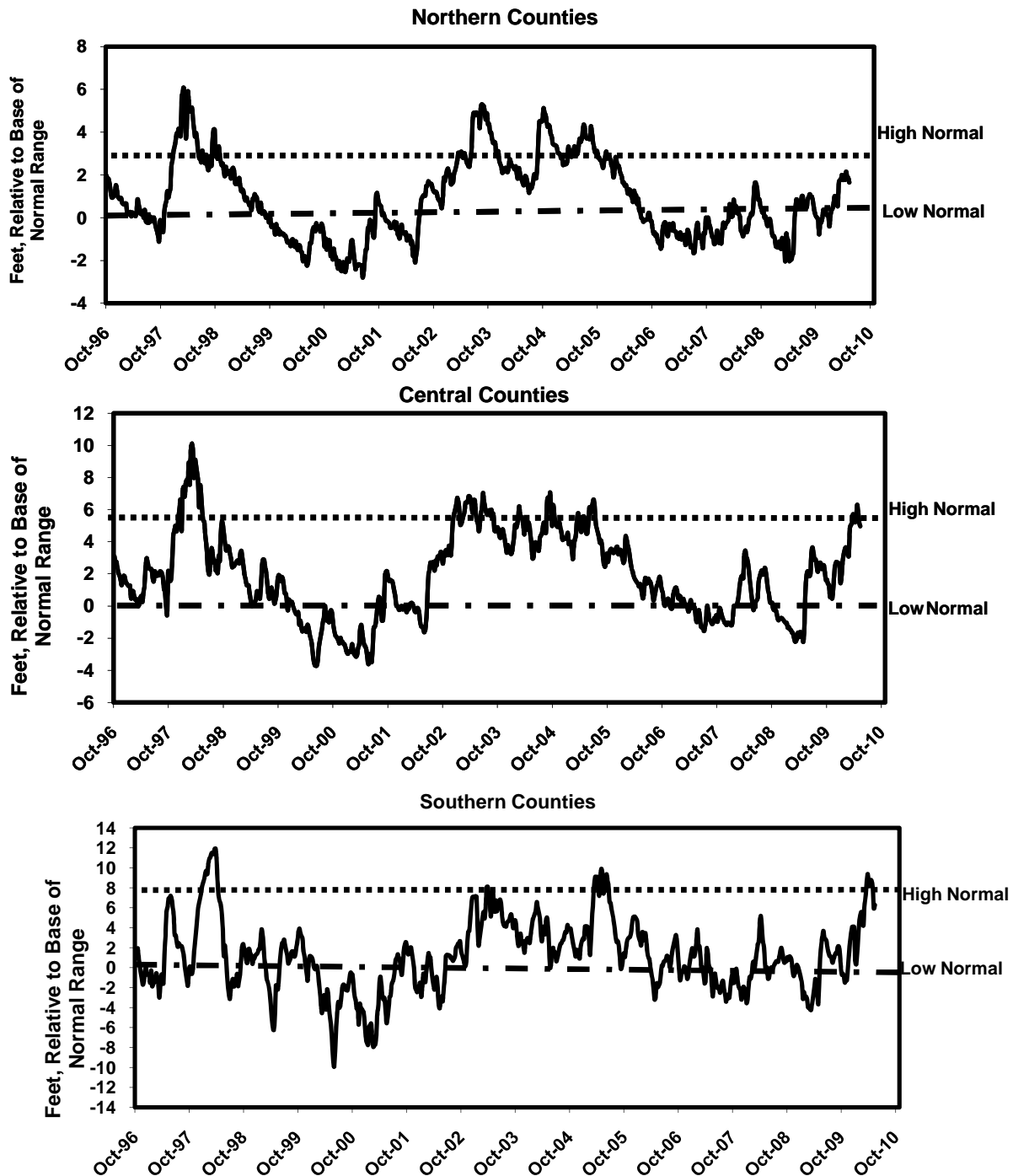
To determine the ARI value for a geographic area, each well is compared to its respective low-normal value weekly, and the difference is calculated. The weekly differences are used to determine the regional ARI value and the resulting ARI value represents how far water levels in the aquifer have to rise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

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

Report Date	Northern Counties	Central Counties	Southern Counties
06/01/2010	1.80	4.80	5.07
06/07/2010	1.67	4.73	5.51
06/14/2010	1.61	4.22	4.01
06/21/2010	1.37	3.73	3.12
06/28/2010	1.22	3.70	2.98

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

AQUIFER RESOURCE INDEX* June 2010



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

In June, six of the seven reservoirs monitored for this report recorded average water-level decreases compared to last month. The Evers, Hillsborough River, Lake Manatee, Bill Young and Peace River Nos. 1 and 2 reservoirs posted average water level decreases of 0.51 foot, 0.06 foot, 0.24 foot, 0.21 foot, 1.60 feet and 2.80 feet, respectively. The Shell Creek reservoir posted a water-level increase of 0.12 foot.

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

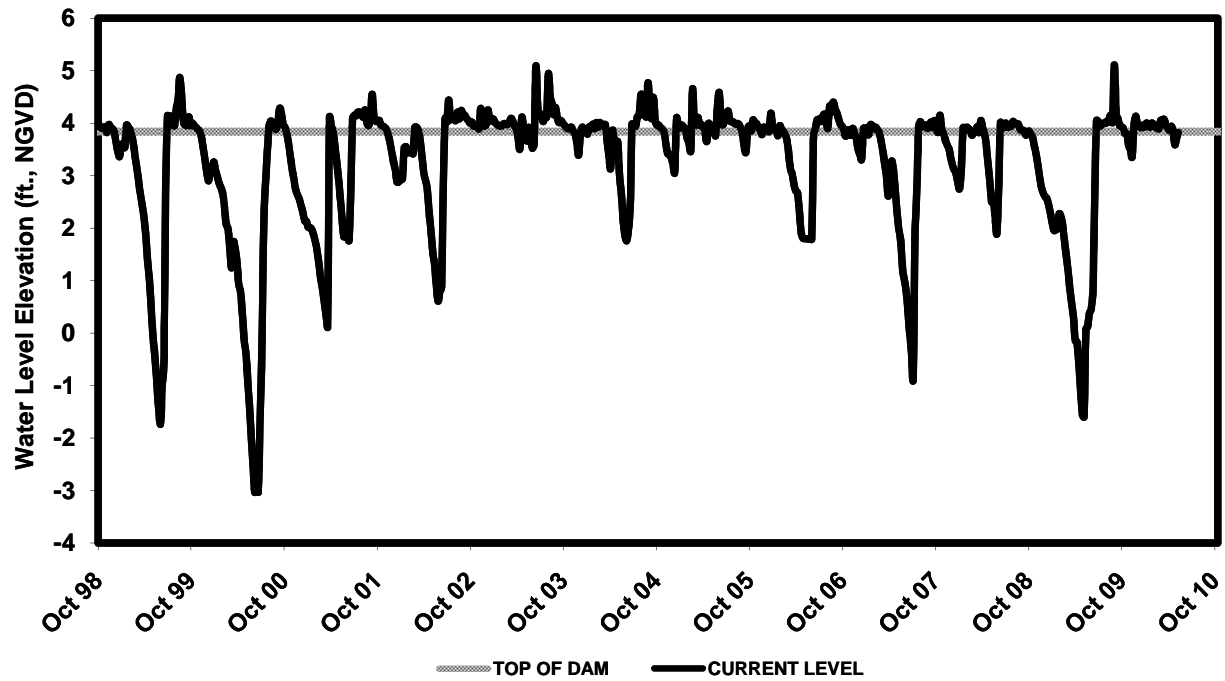
RESERVOIR	2010 May	2010 June	2009 June	Change from Prior Month	Change from Prior Year
Evers					
City of Bradenton	3.54	3.03	2.68	-0.51	0.35
Hillsborough					
City of Tampa	22.62	22.56	22.34	-0.06	0.22
Lake Manatee					
Manatee County	39.3	39.06	39.03	-0.24	0.03
C.W. Bill Young Regional					
Tampa Bay Water	133.92	133.71	89.48	-0.21	44.23
Peace River					
PRMRWSA Reservoir #1	24.8	23.2	28.6	-1.60	-5.40
PRMRWSA Reservoir #2	57.9	55.1	27.0	-2.80	28.10
Shell Creek					
City of Punta Gorda	5.46	5.58	5.28	0.12	0.30

NGVD - National Geodetic Vertical Datum

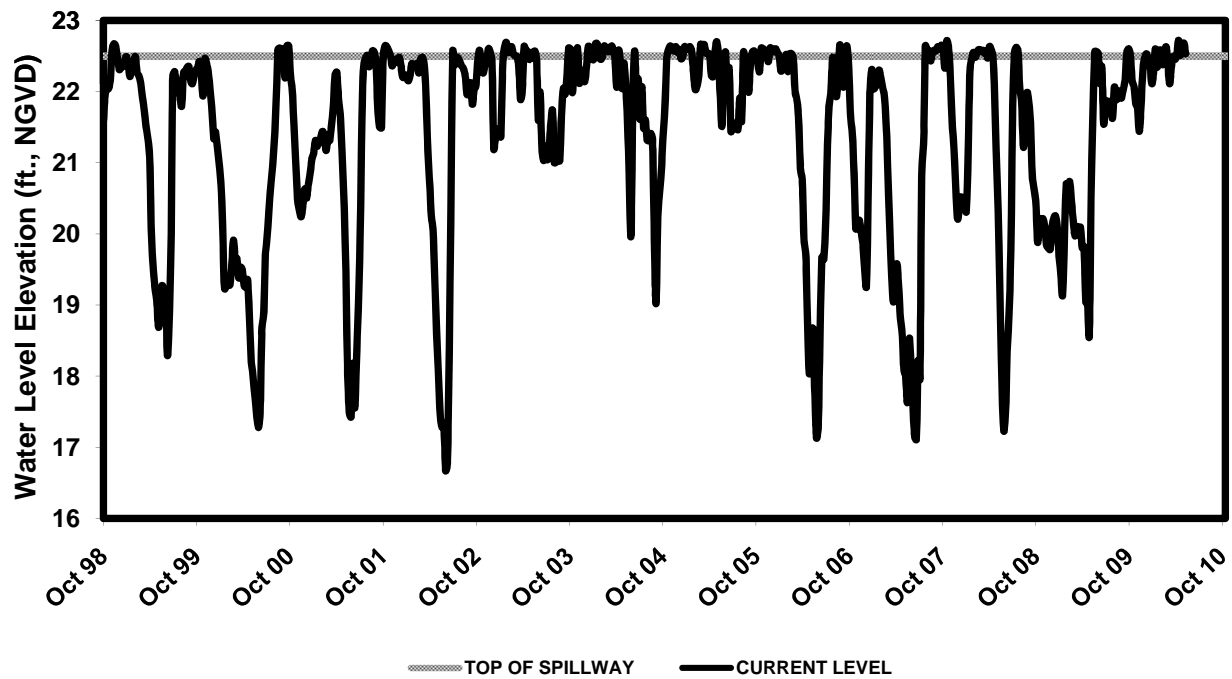
Reported data are provisional and subject to revision.

Compiled by Pam Green

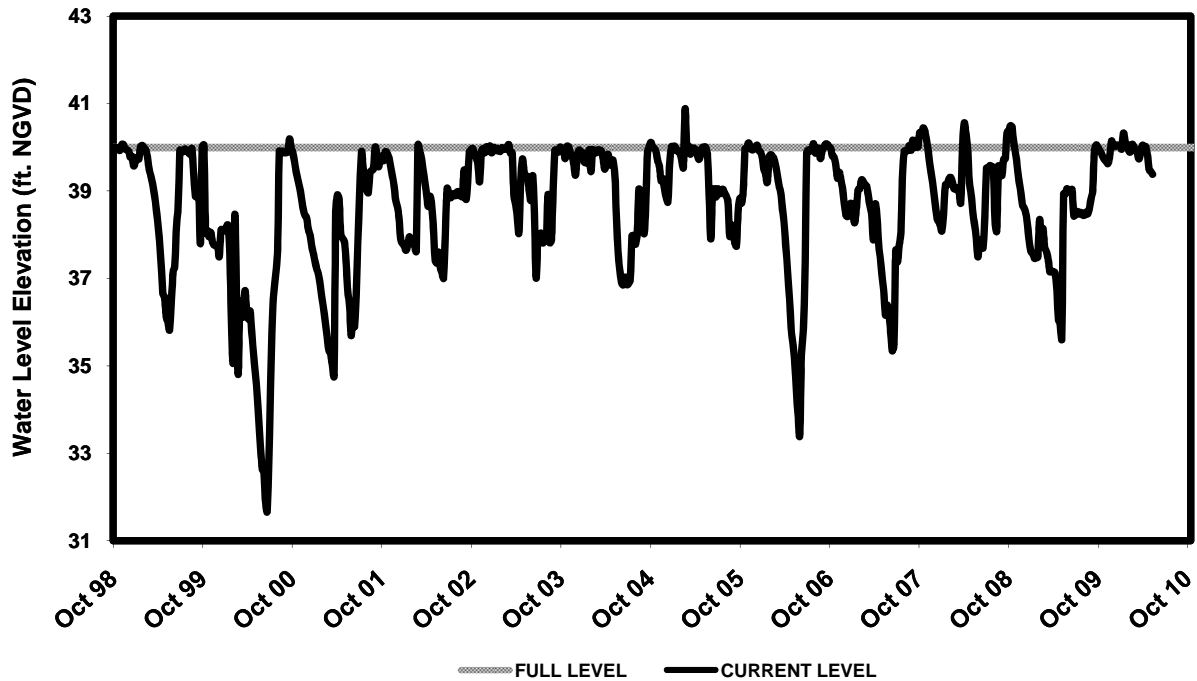
EVERS RESERVOIR City of Bradenton



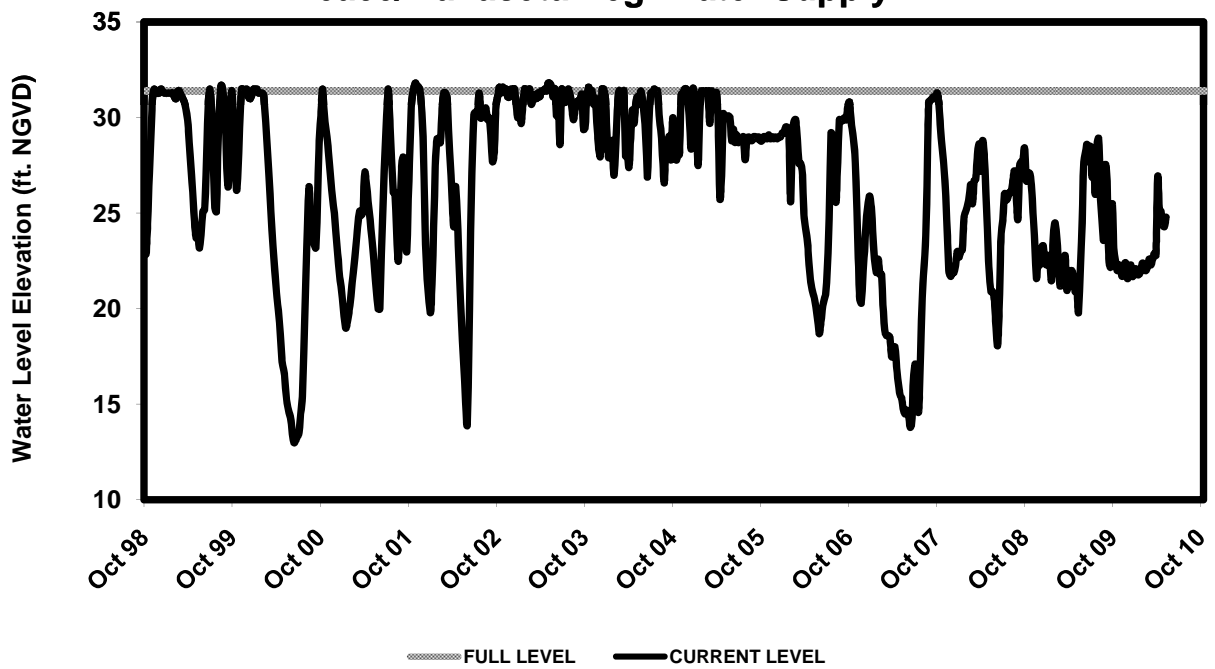
HILLSBOROUGH RESERVOIR City of Tampa

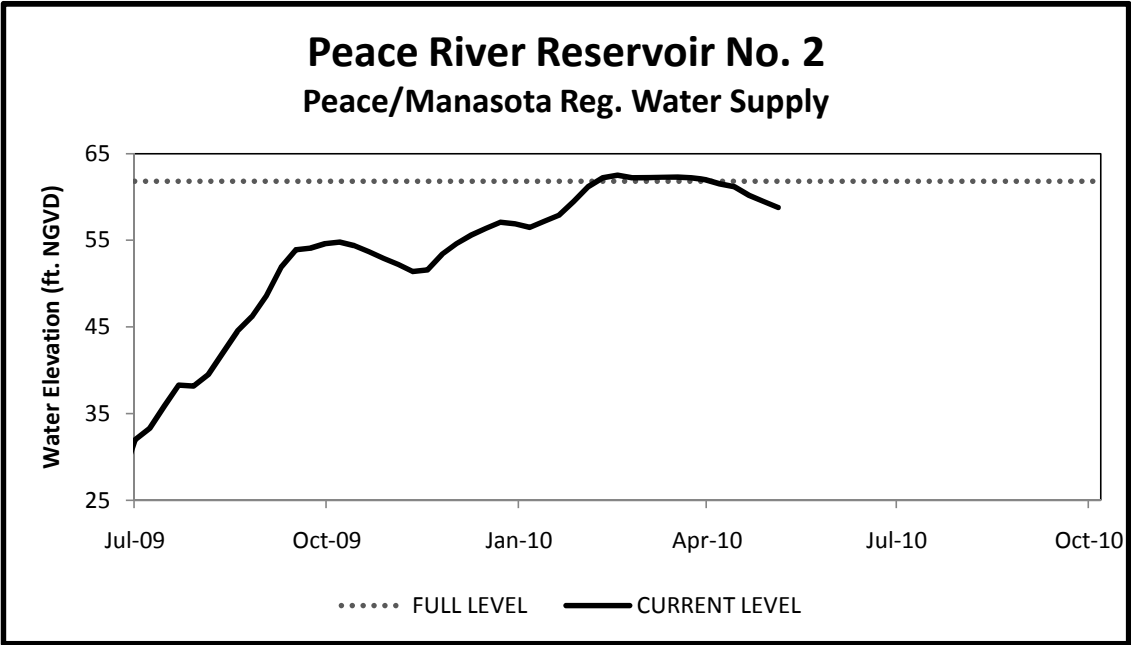


LAKE MANATEE RESERVOIR Manatee County



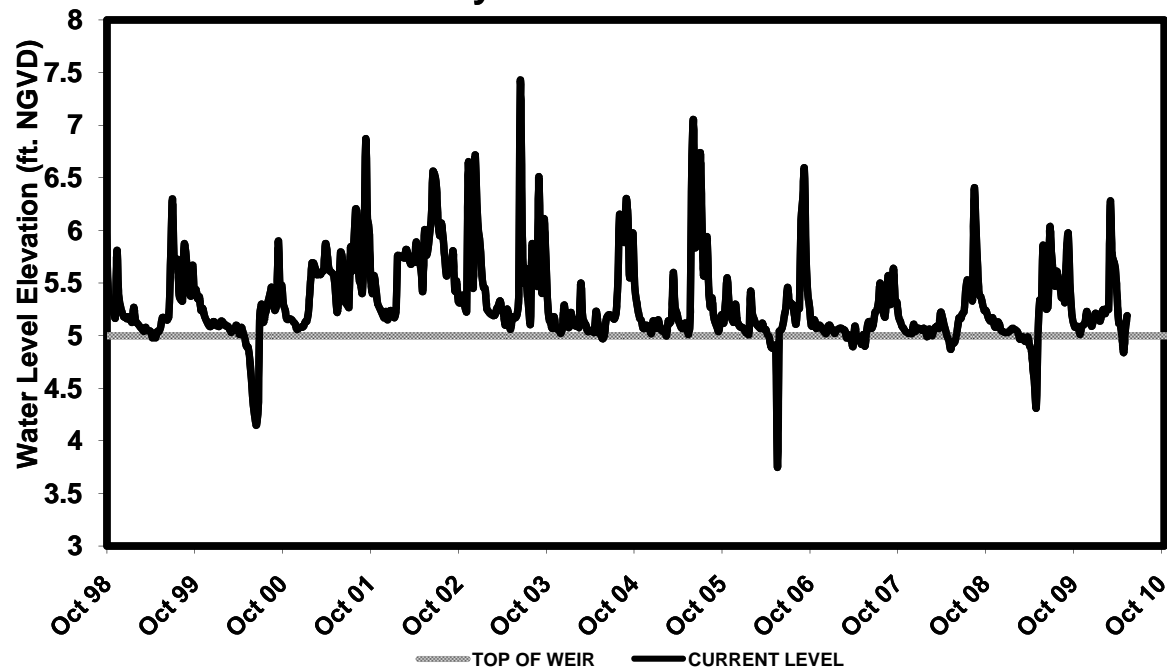
PEACE RIVER RESERVOIR No. 1 Peace/Manasota Reg. Water Supply



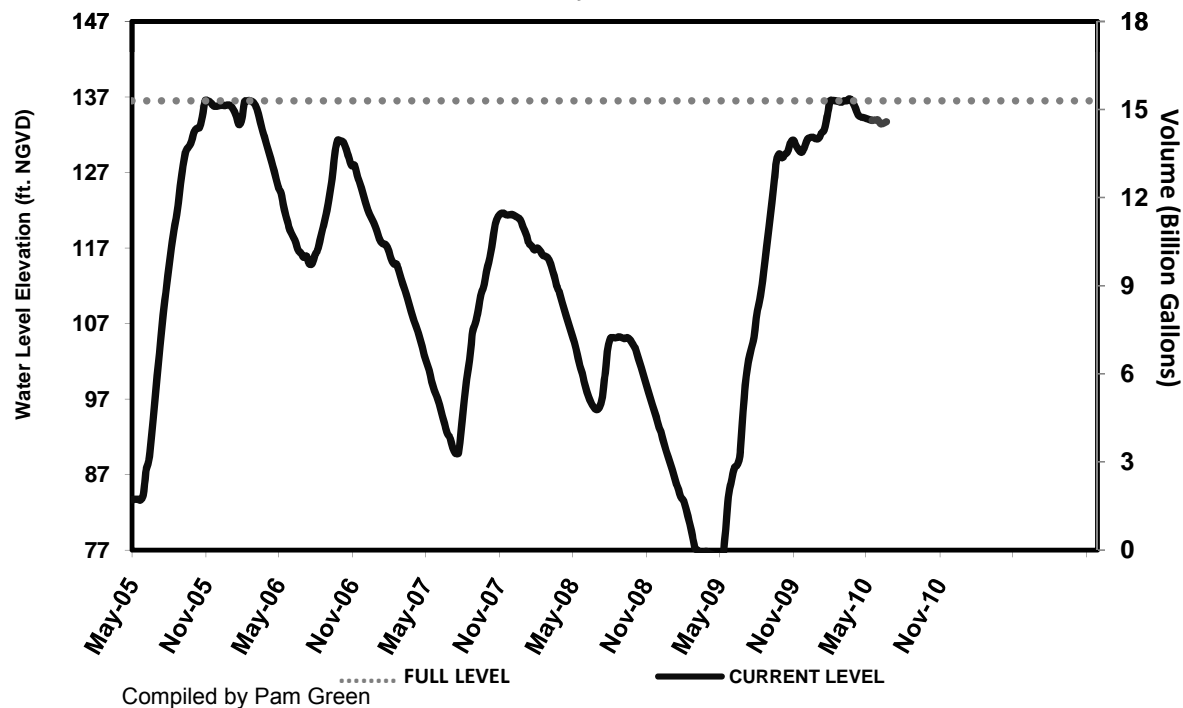


Compiled by Pam Green

SHELL CREEK RESERVOIR
City of Punta Gorda



C.W. BILL YOUNG REGIONAL RESERVOIR
Tampa Bay Water



APPENDICES

Rainfall percentiles by interval and region, inches.

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

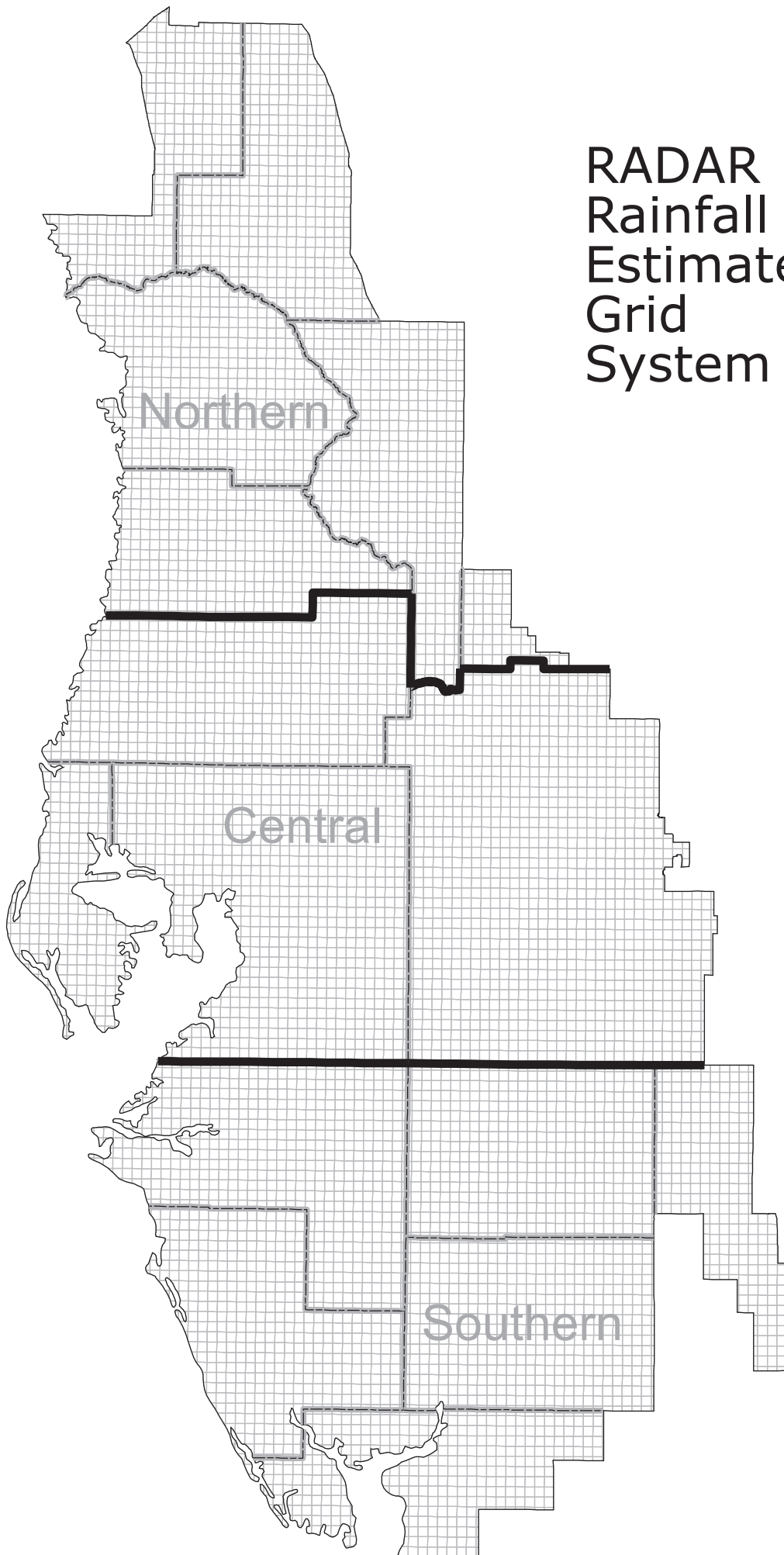
Rainfall percentiles by interval and region, inches (continued).

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

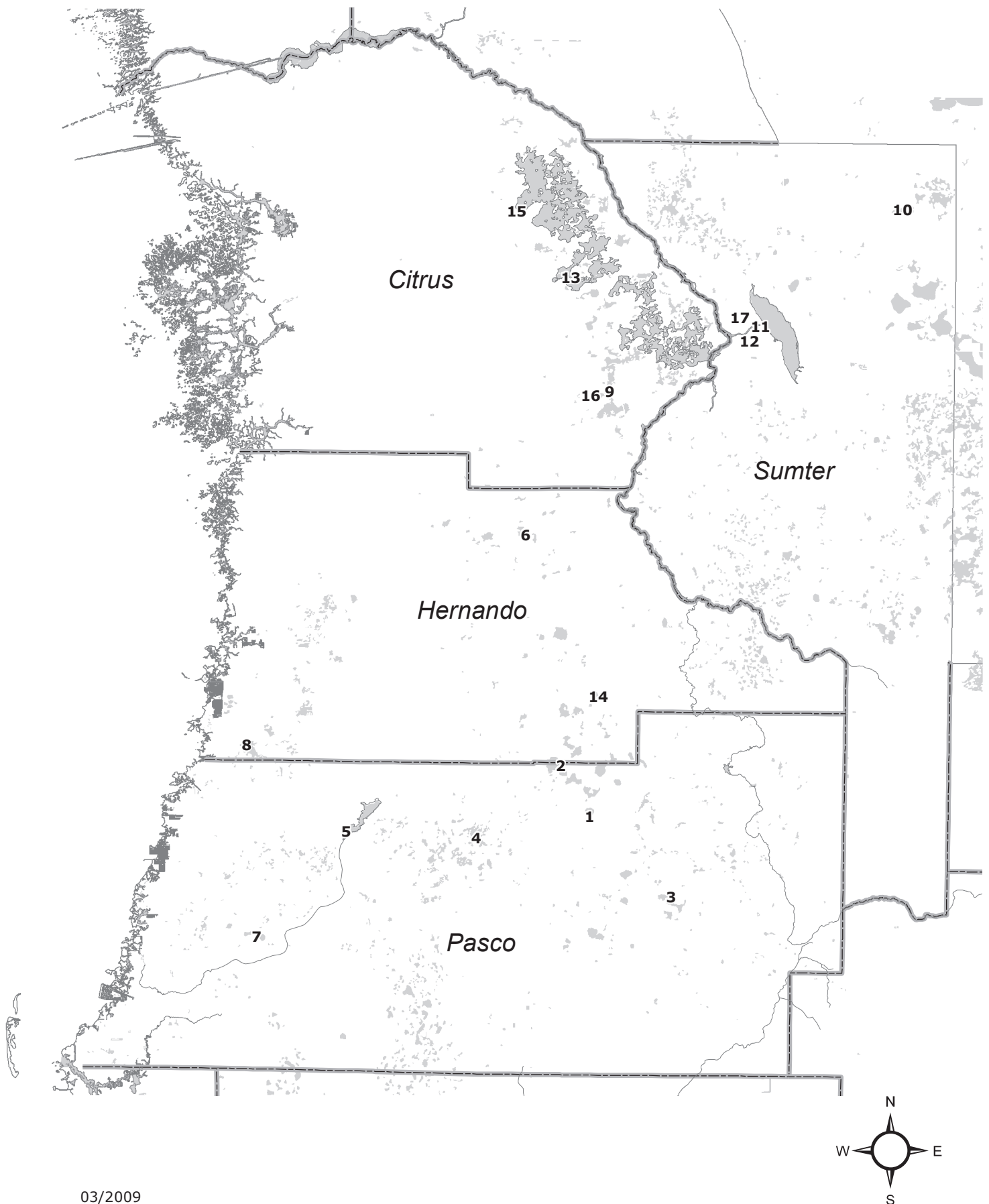
Rainfall characterization ranges

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

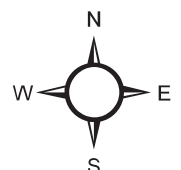
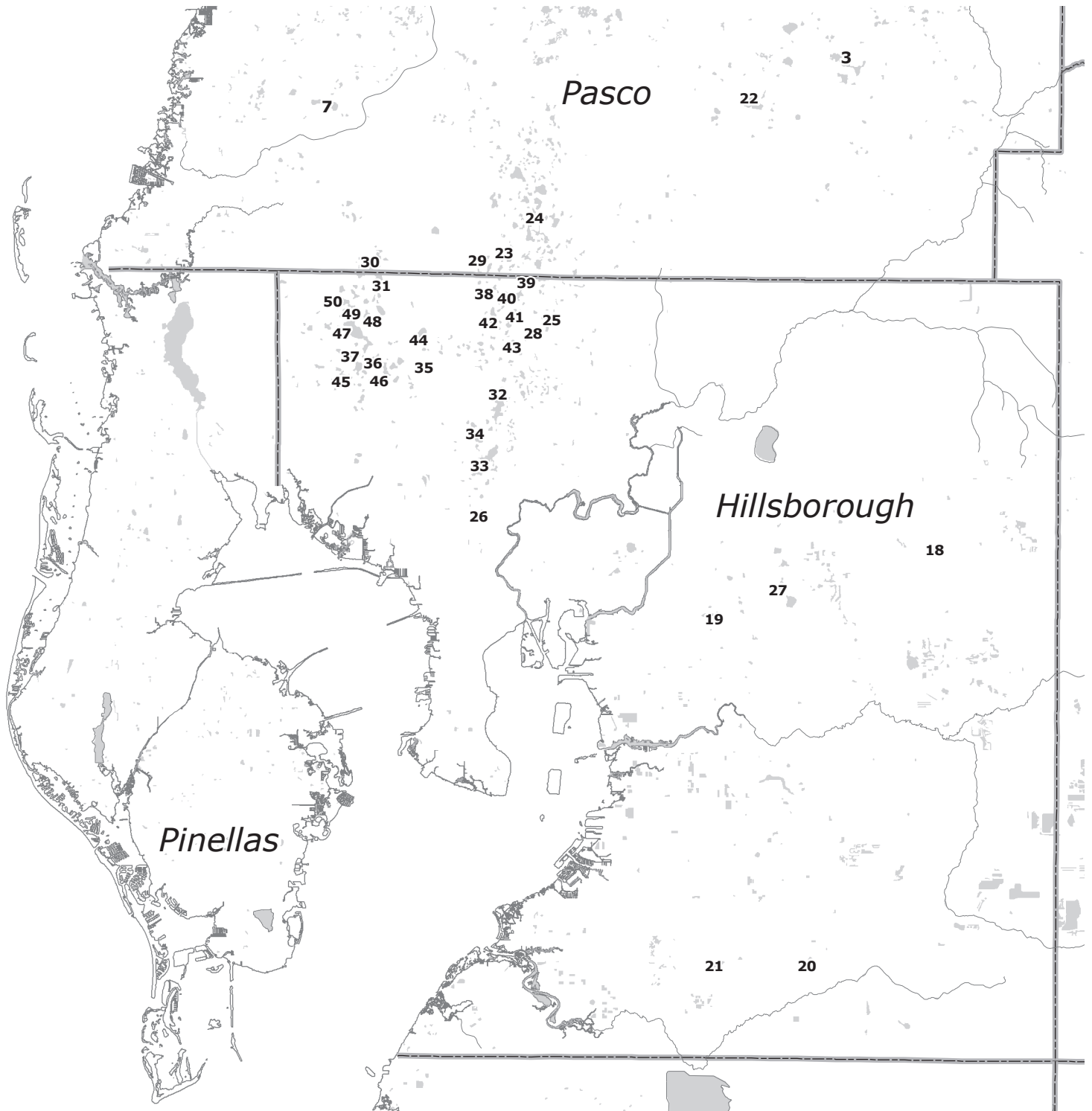
RADAR Rainfall Estimate Grid System



Selected Lake Monitoring Stations Northern Region

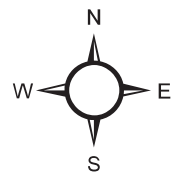
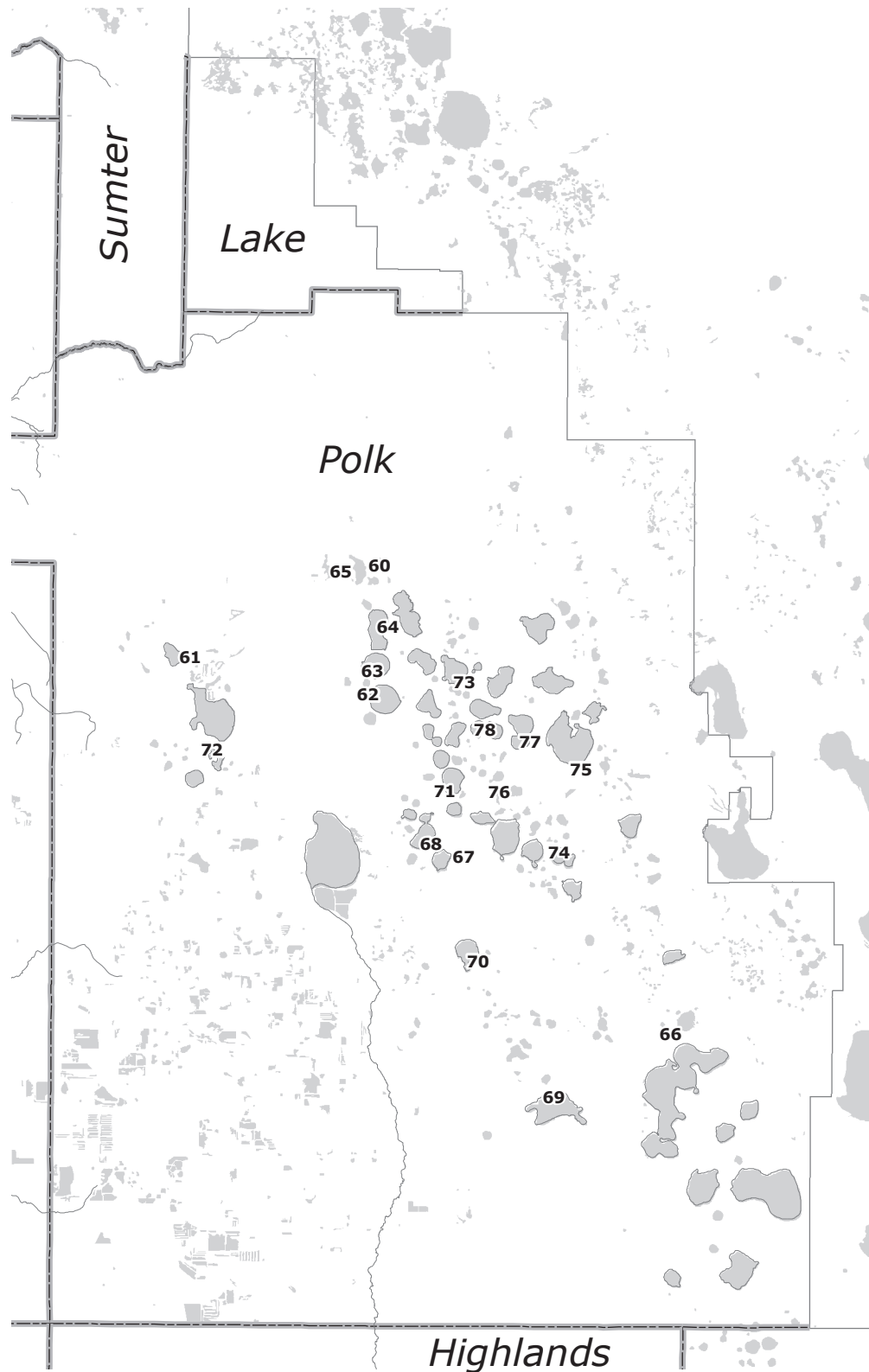


Selected Lake Monitoring Stations Tampa Bay Region



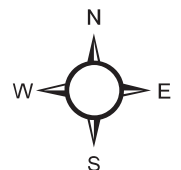
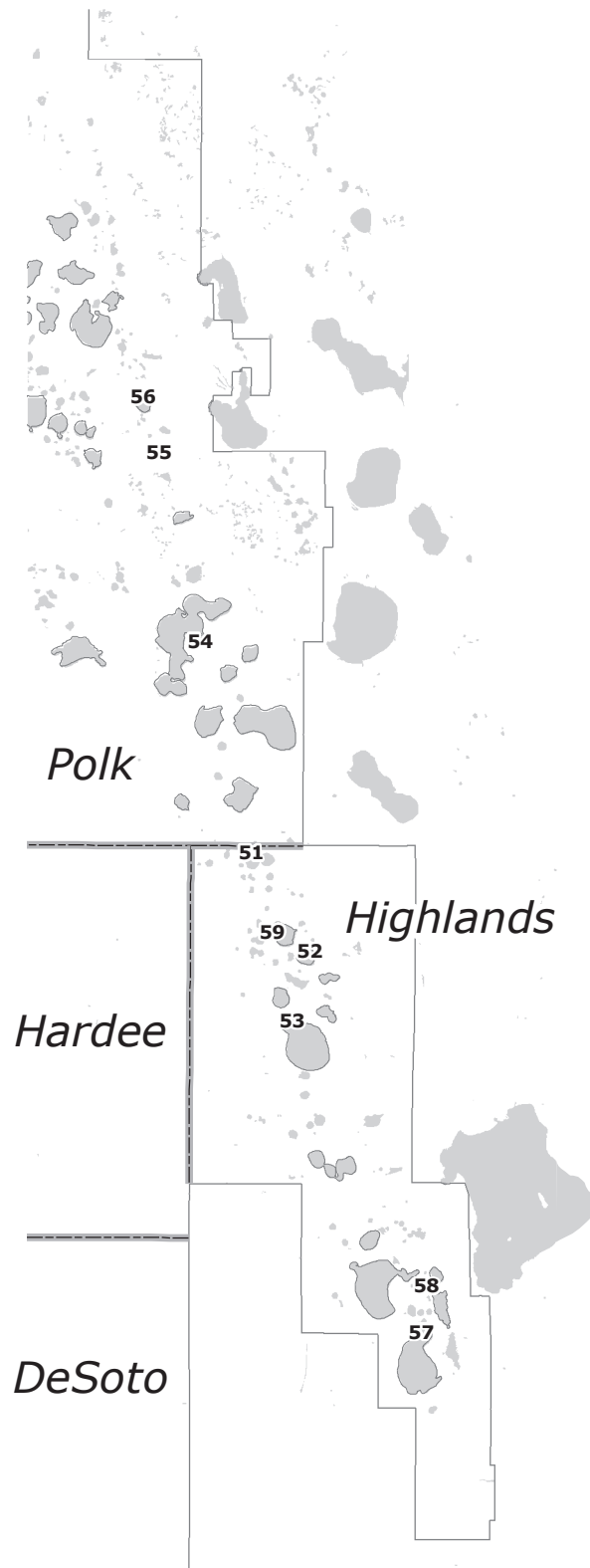
Selected Lake Monitoring Stations

Polk Uplands Region



Selected Lake Monitoring Stations

Lake Wales Ridge Region



Selected Lake Monitoring Stations

Northern Region

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

Tampa Bay Region

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

Selected Lake Monitoring Stations

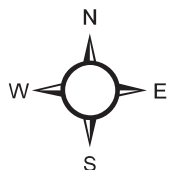
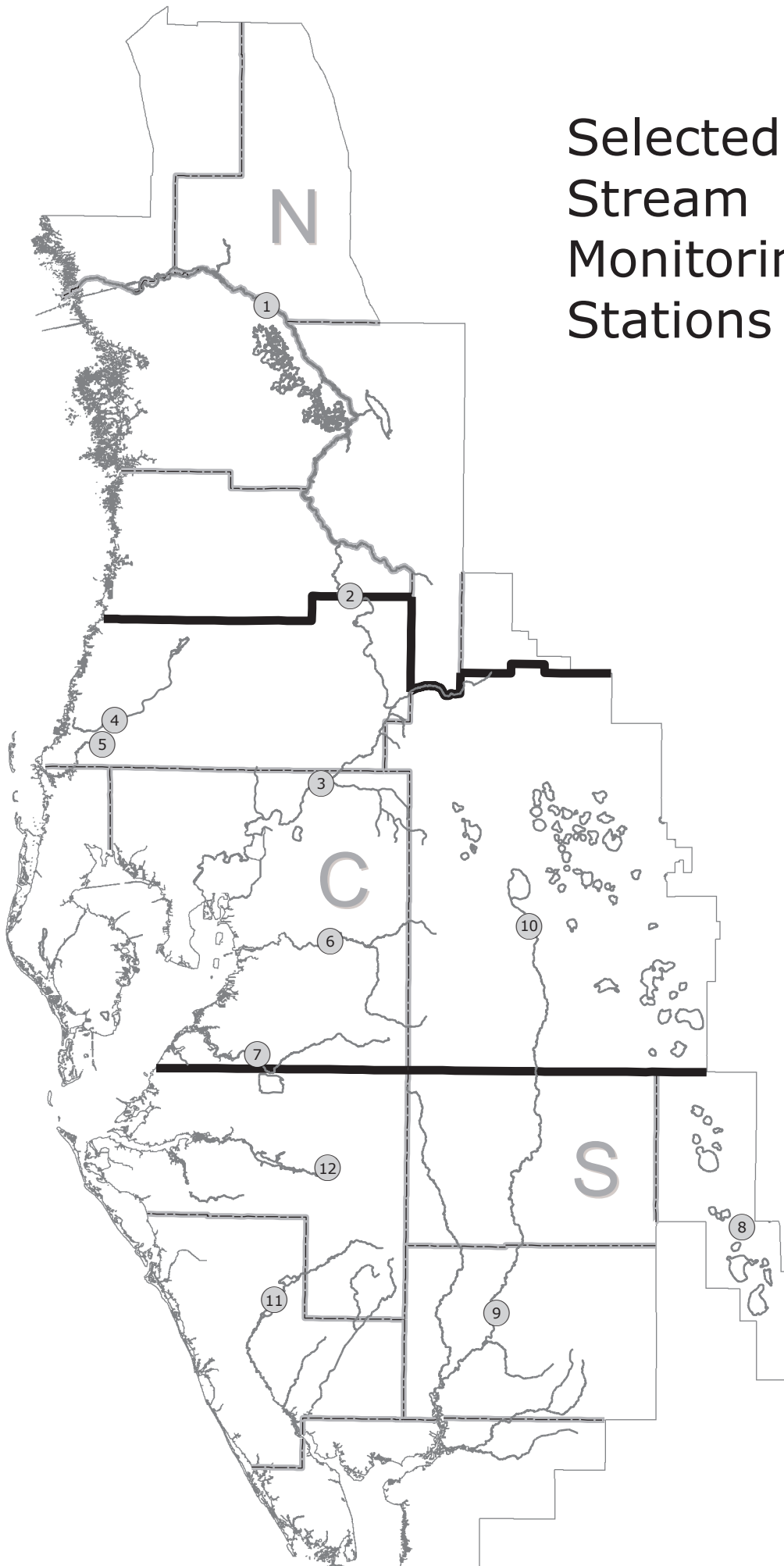
Lake Wales Ridge Region

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

Polk Uplands Region

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

Selected Stream Monitoring Stations



Selected Stream Monitoring Stations

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

STREAM MONITORING STATIONS

WITHLACOOCHEE RIVER (Northern Region)

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

Holder Station

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

Trilby Station

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

ANCLOTE RIVER (Central Region)

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

Elfers Station

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

HILLSBOROUGH RIVER (Central Region)

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

Zephyrhills Station

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

PITHLACHASCOTEE RIVER (Central Region)

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

New Port Richey Station:

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

ALAFIA RIVER (Central Region)

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

Lithia Station:

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

LITTLE MANATEE RIVER (Central Region)

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

Wimauma Station:

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

JOSEPHINE CREEK (Southern Region)

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

DeSoto City Station:

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

MANATEE RIVER (Southern Region)

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

Myakka Head Station:

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

MYAKKA RIVER (Southern Region)

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

Sarasota Station:

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

PEACE RIVER (Central and Southern Region)

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

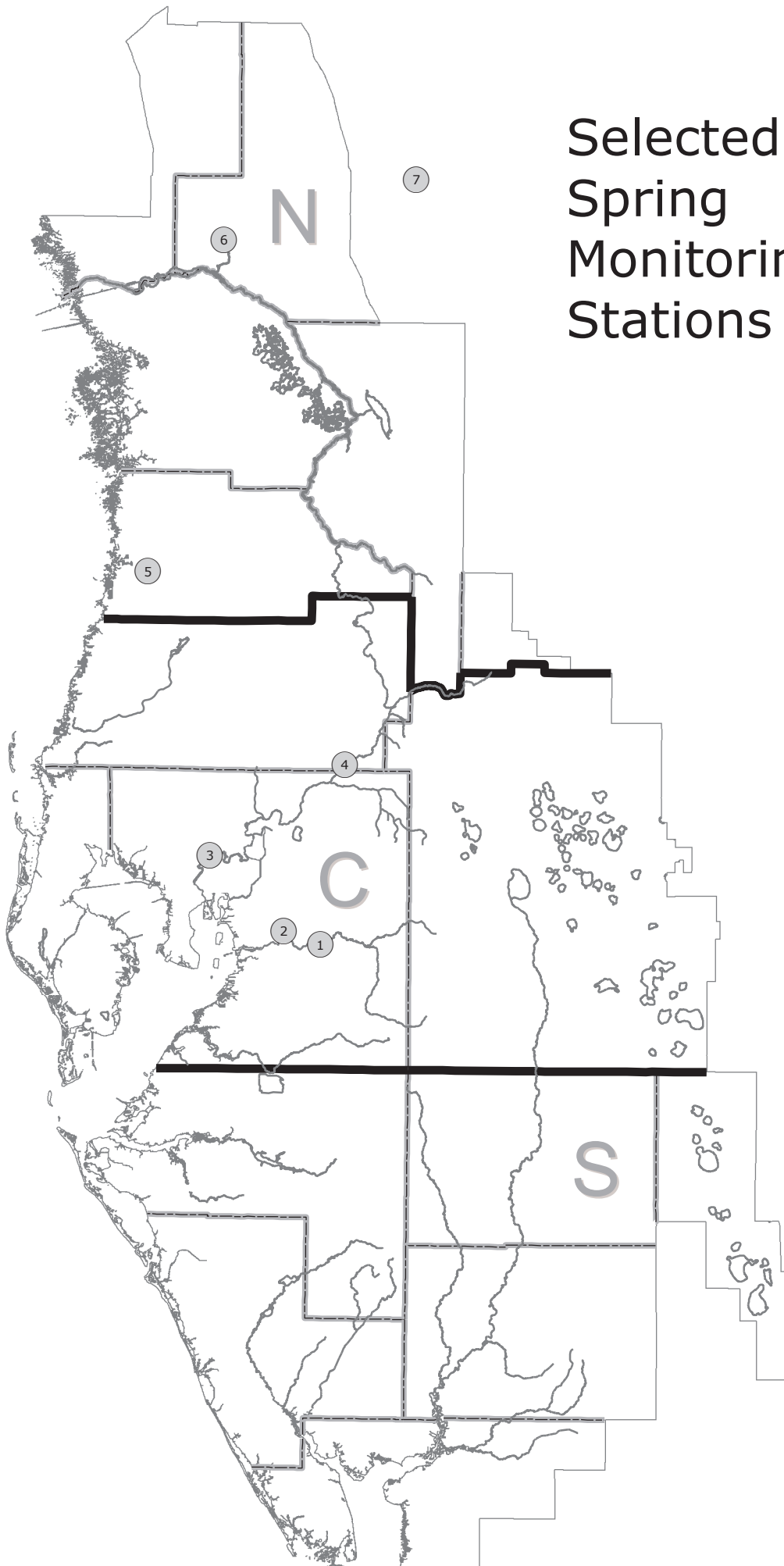
Arcadia Station (Southern Region):

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

Bartow Station (Central Region):

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

Selected Spring Monitoring Stations



Selected Spring Monitoring Stations

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

SPRINGS MONITORING STATIONS

RAINBOW SPRINGS (Northern Region)

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

SILVER SPRINGS (Northern Region)

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

WEEKI WACHEE SPRINGS (Northern Region)

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

CRYSTAL SPRINGS (Central Region)

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

SULPHUR SPRINGS (Central Region)

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

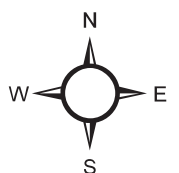
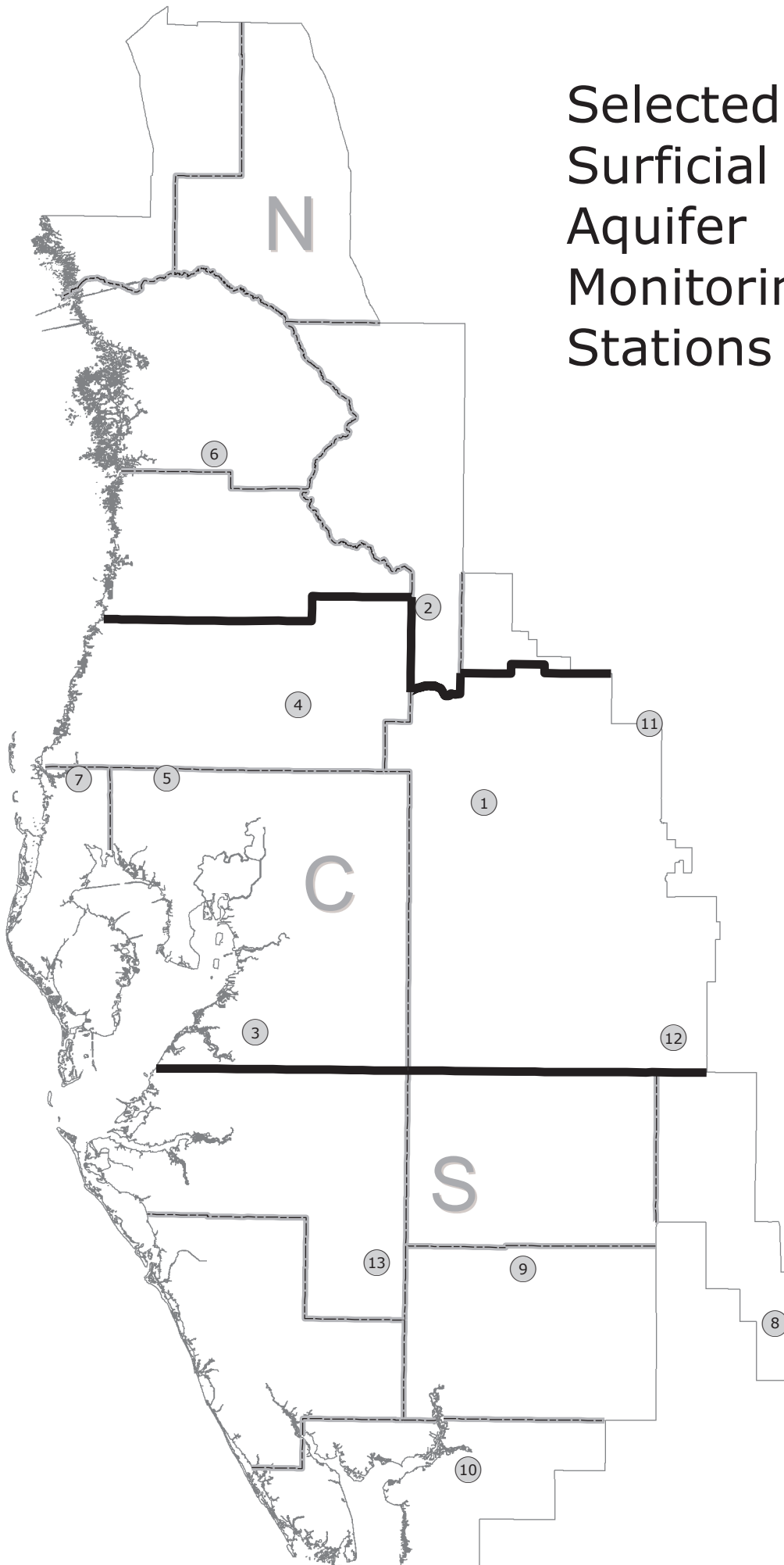
BUCKHORN SPRINGS (Central Region)

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

LITHIA SPRINGS: (Central Region)

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

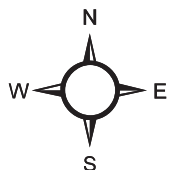
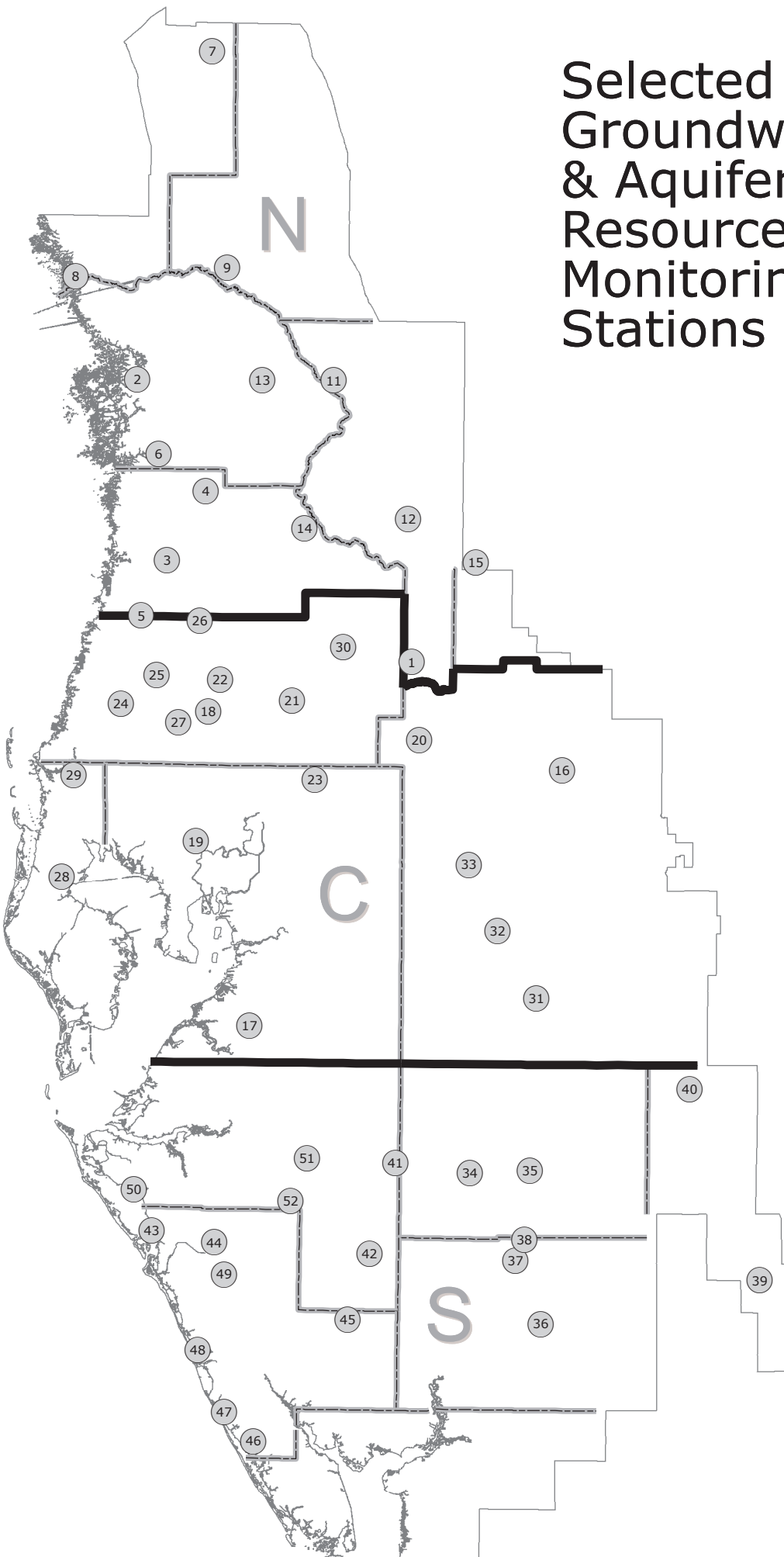
Selected Surficial Aquifer Monitoring Stations



Selected Surficial Aquifer Monitoring Stations

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

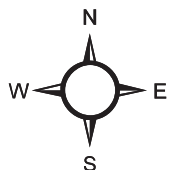
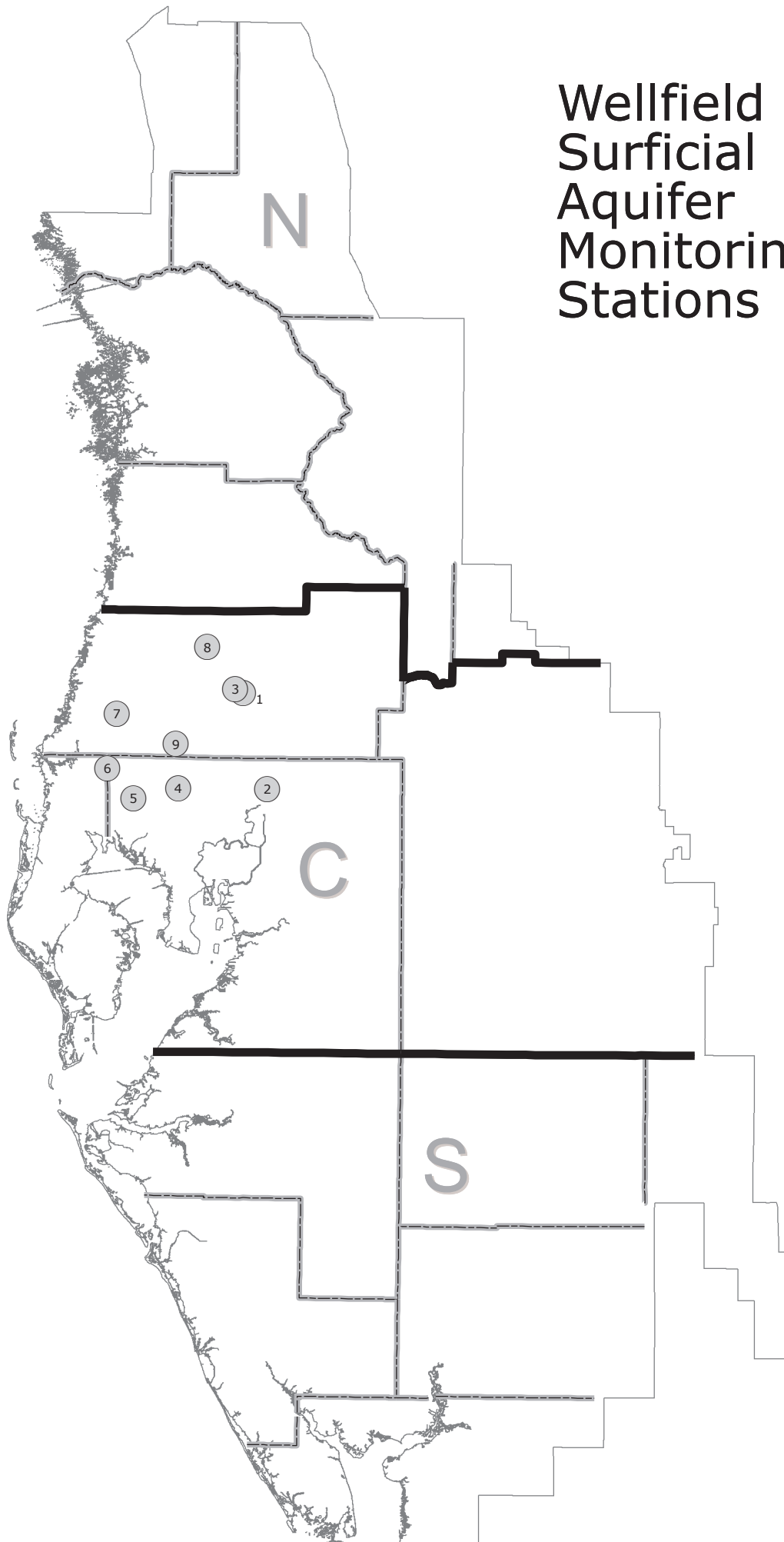
Selected Groundwater & Aquifer Resource Monitoring Stations



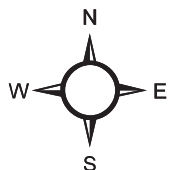
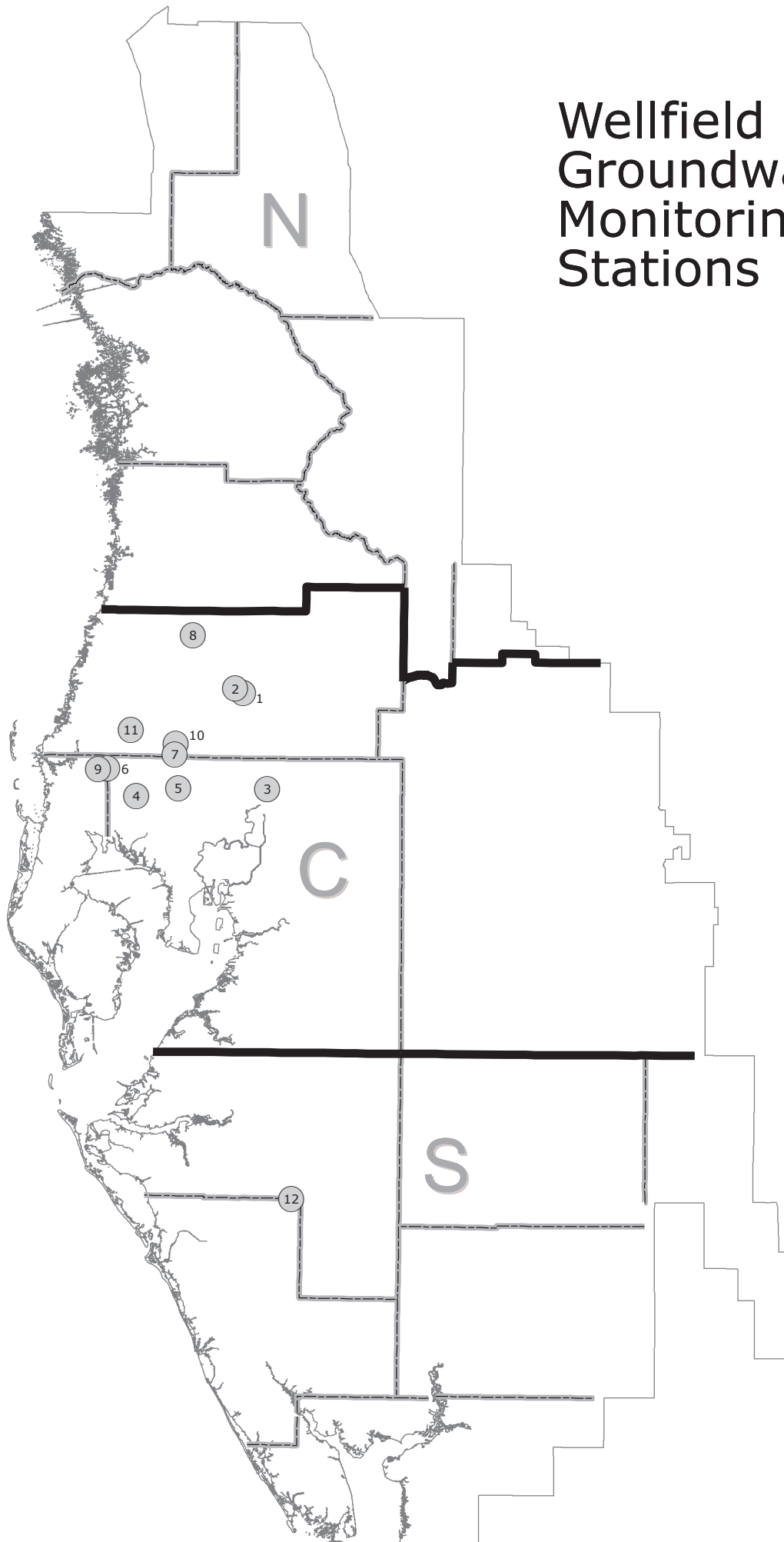
Selected Groundwater & Aquifer Resource Monitoring Stations

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

Wellfield Surficial Aquifer Monitoring Stations



Wellfield Groundwater Monitoring Stations



Wellfield Groundwater Monitoring Stations

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

Wellfield Surficial Aquifer Monitoring Stations

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

Reservoir Locations

