Hydrologic Conditions

for the month of

November 2021

Prepared by the Hydrologic Data Section Data Collection Bureau



December 14, 2021

http://www.watermatters.org

ACKNOWLEDGMENTS

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

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INTRODUCTION

The Hydrologic Conditions Report is generated monthly by the Hydrologic Data Section, Data Collection Bureau, 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. [Notice: There have been substantial changes to the content of this monthly report, as of the July 2020 report.]

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. All data collected are processed and analyzed, uploaded into a centralized data base maintained by the District and then made available to the public through the District's Environmental Data Portal. The District's data collection program is augmented with data collected by the United States Geological Survey (USGS) through a cooperative joint funding agreement. Data derived from both District and USGS sources are used in this report.

The data contained in this report were 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 Tamera McBride, 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, services and activities. Anyone requiring reasonable accommodation, or who would like information as to the existence and location of accessible services, activities, and facilities, as provided for in the Americans with Disabilities Act, should contact the Human Resources Office Chief, at 2379 Broad St., Brooksville, FL 34604-6899; telephone (352) 796-7211 or 1-800-423-1476 (FL only), ext. 4747; or email ADACoordinator@WaterMatters.org. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1-800-955-8771 (TDD) or 1-800-955-8770 (Voice). If requested, appropriate auxiliary aids and services will be provided at any public meeting, forum, or event of the District. In the event of a complaint, please follow the grievance procedure located at WaterMatters.org/ADA.

EXECUTIVE SUMMARY

Hydrologic Conditions for November 2021

In November, average rainfall totals were at the upper-end of the normal range in the northern counties of the District, while they were above normal in the central and southern counties. 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 mean. The northern counties received an average of 2.64 inches of rainfall, equivalent to the 73rd percentile of the historical November record. The central counties received an average of 3.39 inches of rainfall, equivalent to the 83rd percentile, while the southern counties received an average of 2.93 inches of rainfall, equivalent to the 80th percentile of the historical November record. The District-wide rainfall average of 3.02 inches was equivalent to the 82nd percentile of the historical November record.

During the 12-month period from December 1, 2020, through November 30, 2021, the average rainfall totals in the northern counties were classified as "wetter than normal," while the central and southern counties were classified as "normal." The northern region received an average of 59.23 inches of rainfall, equivalent to the 78th percentile of the historical annual record. The central region received an average of 48.04 inches of rainfall, equivalent to the 33rd percentile, while the southern region received an average of 46.89 inches of rainfall, equivalent to the 28th percentile. The District-wide rainfall average of 50.73 inches was equivalent to the 41st percentile of the historical annual record.

Average lake levels in November were within the normal range in all four lake regions of the District. Normal lake levels are defined as levels that fall between the minimum low management level and the minimum flood level. Lake levels in the Northern region increased by an average of 0.15 foot and were 0.67 foot above the annual normal range. Lake levels in the Tampa Bay region increased an average of 0.12 foot and were 1.32 feet above the base of the annual normal range. Average lake levels in the Polk Uplands region increased by an average of 0.18 foot and were 1.69 feet above the base of the annual normal range. Average lake levels in the Lake Wales Ridge region decreased by 0.03 foot and ended the month 0.72 foot above the base of the annual normal range.

Total streamflow in November, based on three regional index rivers, was within the normal range in the northern and southern counties of the District, while it was above normal in the central counties. Normal streamflow is defined as the flow that falls on or between the 25th and 75th percentiles. Streamflow measured at the Withlacoochee River near Holder station in the northern counties decreased and was at the 69th percentile. Streamflow in the Hillsborough River near Zephyrhills station in the central counties increased and was at the 94th percentile, while total streamflow measured at the Peace River at Arcadia station in the southern counties decreased and was at the 62nd percentile during November.

In November, groundwater data showed that the average regional level in the Upper Floridan aquifer was above normal in the northern counties of the District, while average regional levels were at the upper-end of the normal range in the central and southern counties. The normal range is defined as levels that fall on or between the 25th and 75th percentiles. The average regional groundwater level in the northern, central and southern counties were at the 89th, 72nd and 70th percentiles, respectively.

REGIONAL OVERVIEW OF HYDROLOGIC CONDITIONS

NOVEMBER 2021

For this report, the District has been divided into three geographical regions that are defined by county boundaries, unless otherwise indicated. 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; the central region includes the counties of Hillsborough, Pasco, Pinellas and Polk; while the southern region includes the counties of Charlotte, DeSoto, Hardee, Highlands, Manatee and Sarasota.

Northern Region

In November, the northern region received an average of 2.64 inches of rainfall, equivalent to the 73rd percentile of the historical November readings, which is considered "normal." Average lake levels increased in the northern region and ended the month an average of 0.67 foot above the base of the annual normal range. Total streamflow measured in the Withlacoochee River near Holder station decreased and was in the 69th percentile. Regional groundwater levels indicated Upper Floridan aquifer water levels decreased and were in the 89th percentile.

Central Region

In November, the central region received an average of 3.39 inches of rainfall, equivalent to the 83rd percentile of historical November readings, which is considered "wetter than normal." Average lake levels increased in the Tampa Bay and Polk Uplands regions, ending the month 1.32 and 1.69 feet, respectively, above the base of the annual normal range. Total streamflow measured at the Hillsborough River near Zephyrhills station increased and was in the 94th percentile. Regional groundwater levels indicated average Upper Floridan aquifer water levels increased and were in the 72nd percentile.

Southern Region

In November, the southern region received an average of 2.93 inches of rainfall, equivalent to the 80th percentile of historical November readings, which is considered "wetter than normal." Average lake levels decreased in the Lake Wales Ridge region and ended the month 0.72 foot above the base of the annual normal range. Total streamflow measured at the Peace River at Arcadia station decreased and was in the 62nd percentile. Regional groundwater levels indicated average Upper Floridan aquifer water levels increased and were in the 70th 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 15-minute rainfall data collected from the District's network of real-time gauges. This process results in rainfall estimates for every 1.5 square-miles over the entire District, filling in those portions where rainfall data collection would otherwise be limited due to gaps in the gauging network.

Rainfall data are evaluated by using the current values to calculate percentiles in order to determine how normal or abnormal they are. 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 that is calculated to be equivalent to the 90th percentile indicates that it is higher than 90 percent of the rainfall totals ever recorded for this month during all years that rainfall has been measured.

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 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 zero percentile indicates a new period-of-record low and the 100th percentile is a new record high. The rainfall in inches for each percentile break, by rainfall interval and by region and the characterization ranges are summarized in the Appendix.

In November, rainfall totals were at the upper-end of the normal range in the northern counties of the District, while they were above normal in the central and southern counties. 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 counties received an average of 2.64 inches of rainfall, equivalent to the 73rd percentile of the historical November record. The central counties received an average of 3.39 inches, equivalent to the 83rd percentile of the historical November record, while the southern counties received an average of 2.93 inches, equivalent to the 80th percentile. District-wide, rainfall averaged 3.02 inches, which is equivalent to the 82nd percentile.

During the 12-month period from December 1, 2020, through November 30, 2021, the average rainfall totals in the northern counties were classified as "wetter than normal," while the central and southern counties were classified as "normal." The northern counties received an average of 59.23 inches of rainfall, equivalent to the 78th percentile of the historical record. The central counties received an average of 48.04 inches of rainfall,

equivalent to the 33rd percentile. The southern counties received an average of 46.89 inches of rainfall, equivalent to the 28th percentile. The District-wide rainfall average was 50.73 inches, which is equivalent to the 41st percentile of the historical annual record.

Tampa Monthly Climate Summary for November 2021

According to the National Weather Service (NWS), the monthly average temperature (°F) for Tampa was 68.4 degrees, which was 1.4 degrees below normal. The highest temperature recorded during the month was 86.0 degrees, while the lowest temperature recorded during the month was 50.0 degrees. The November 2021 monthly average temperature of 68.4 degrees ranks as the 53rd warmest November since records began in 1890. The warmest November had an average temperature of 76.3 degrees, which occurred in 1986.

Temperature and Precipitation Outlook

The Climate Prediction Center's (CPC) three-month weather forecast, as of November 18, 2021, indicates below-normal rainfall throughout the District during the composite 3-month period from December 2021 through February 2022. The temperature forecast for this same time-period indicates above-normal temperatures throughout the District.

[Note: Due to the early publication date of December 14, 2021, for this report, the CPC's December 16, 2021, forecast was unavailable.]

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

http://www.cpc.ncep.noaa.gov/products/OUTLOOKS index.html

RELATIONSHIP OF NOVEMBER 2021 RAINFALL TO HISTORICAL RAINFALL AVERAGES

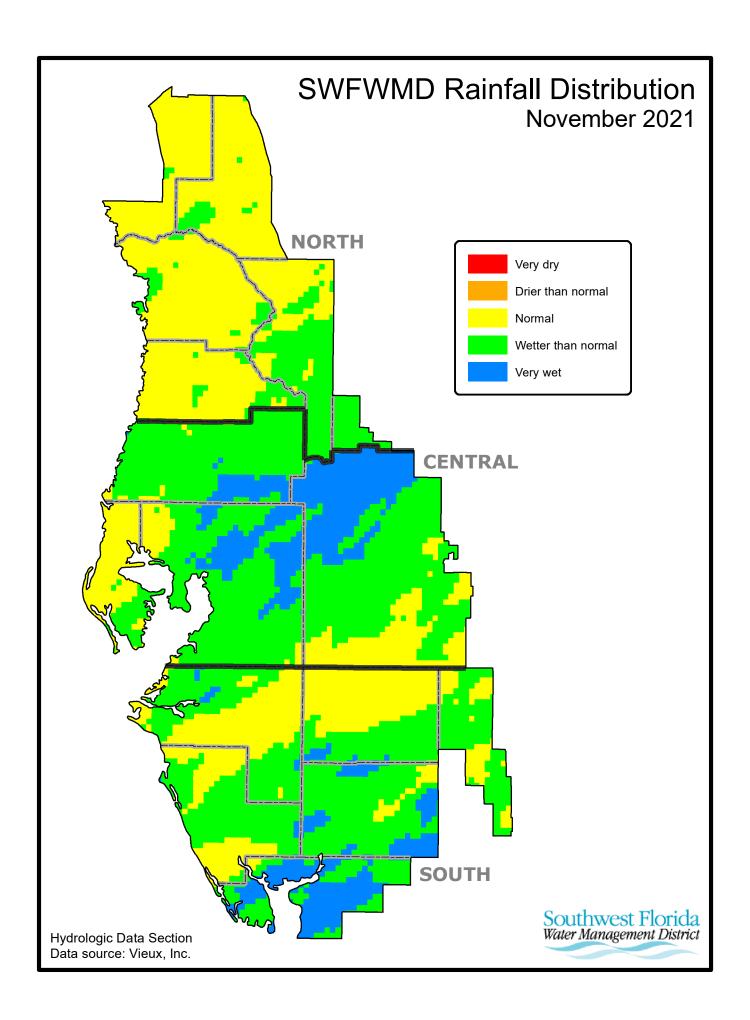
Regional Summary:

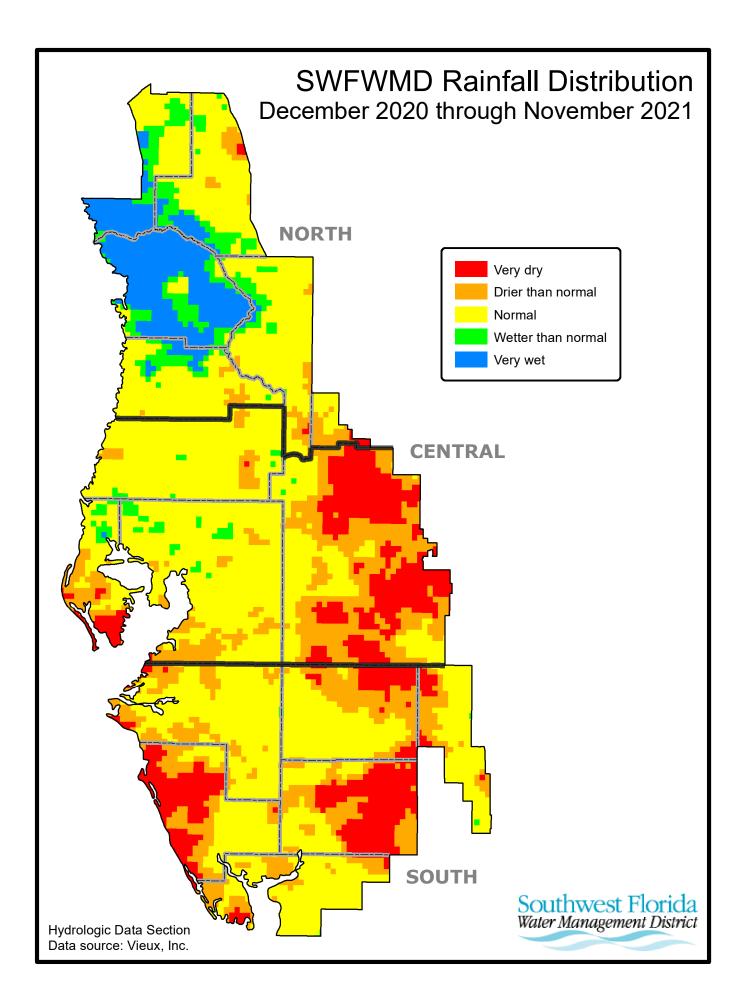
Region	NOV 2021 Average Rainfall	Historical Average for NOV	Departure from Historical Average	Calendar Year 2021 Cumulative Rainfall JAN-NOV	Calendar Year Historical Cumulative Rainfall JAN-NOV	Departure from Historical Cumulative NOV 2021	Cumulative 12-month Rainfall DEC 2020- NOV 2021	Historical 12-month Cumulative Rainfall	Departure from Historical 12-month Cumulative
Northern Counties	2.64	1.98	0.66	57.58	51.03	6.55	59.23	53.59	5.64
Central Counties	3.39	1.87	1.52	45.94	50.03	-4.09	48.04	52.41	-4.37
Southern Counties	2.93	1.79	1.14	45.03	50.45	-5.42	46.89	52.37	-5.48
District All Counties	3.02	1.87	1.15	48.84	50.45	-1.61	50.73	52.72	-1.99
Regional Countie	es Summary:								
NORTHERN COUNTIES	NOV 2021 Average Rainfall	Historical Average for NOV	Departure from Historical Average	Calendar Year 2021 Cumulative Rainfall JAN-NOV	Calendar Year Historical Cumulative Rainfall JAN-NOV	Departure from Historical Cumulative NOV 2021	Cumulative 12-month Rainfall DEC 2020- NOV 2021	Historical 12-month Cumulative Rainfall	Departure from Historical 12-month Cumulative
Levy County	2.58	2.10	0.48	60.59	51.05	9.54	62.02	53.98	8.04
Marion County	2.38	2.08	0.30	55.49	51.54	3.95	57.14	54.31	2.83
Citrus County	2.52	1.95	0.57	65.55	51.55	14.00	67.63	54.11	13.52
Sumter County	2.91	1.94	0.97	53.26	49.48	3.78	54.65	51.95	2.70
Hernando County	2.62	1.99	0.63	54.82	52.44	2.38	56.46	54.98	1.48
CENTRAL COUNTIES									
Pasco County	3.35	1.96	1.39	50.01	51.60	-1.59	51.68	54.04	-2.36
Pinellas County	2.41	1.88	0.53	45.24	49.28	-4.04	47.99	51.73	-3.74
Hillsborough County	3.60	1.84	1.76	49.22	50.41	-1.19	51.55	52.67	-1.12
Polk County	3.45	1.80	1.65	41.91	49.92	-8.01	43.95	52.04	-8.09
SOUTHERN COUNTIES									
Manatee County	2.61	1.86	0.75	47.66	51.39	-3.73	49.35	53.41	-4.06
Hardee County	2.42	1.72	0.70	45.17	50.26	-5.09	46.71	52.09	-5.38
Highlands County	2.64	1.74	0.90	46.93	50.40	-3.47	48.30	52.03	-3.73
Sarasota County	2.74	1.85	0.89	43.30	50.65	-7.35	45.15	52.63	-7.48
DeSoto County	3.31	1.73	1.58	41.73	50.03	-8.30	43.75	51.81	-8.06
Charlotte County	4.12	1.72	2.40	45.58	50.72	-5.14	48.39	52.51	-4.12

NOVEMBER 2021 RAINFALL CHARACTERIZATION

Regional Characterization:

Region	NOV 2021 Average Rainfall	Historical NOV Percentile	NOV Rainfall Characterization	Cumulativ 12-month Rainfall DEC 2020 NOV 2021	Historical 12-month - Cumulative	12-month Cumulative Rainfall Characterization	
Northern Counties	2.64	73	Normal	59.23	78	Wetter than normal	
Central Counties	3.39	83	Wetter than normal	48.04	33	Normal	
Southern Counties	2.93	80	Wetter than normal	46.89	28	Normal	
District Counties	3.02	82	Wetter than normal	50.73	41	Normal	
Regional Countie	es Characterizat	ion:					
NORTHERN COUNTIES	NOV 2021 Average Rainfall	Historical NOV Percentile	NOV Rainfall Characterization	Cumulativ 12-month Rainfall DEC 2020 NOV 2021	Historical 12-month - Cumulative	12-month Cumulative Rainfall Characterization	
Levy County	2.58	66	Normal	62.02	82	Wetter than normal	
Marion County	2.38	65	Normal	57.14	64	Normal	
Citrus County	2.52	69	Normal	67.63	95	Very wet	
Sumter County	2.91	77	Wetter than normal	54.65	64	Normal	
Hernando County	2.62	76	Wetter than normal	56.46	58	Normal	
CENTRAL COUNTIES							
Pasco County	3.35	81	Wetter than normal	51.68	41	Normal	
Pinellas County	2.41	77	Wetter than normal	47.99	38	Normal	
Hillsborough County	3.60	86	Wetter than normal	51.55	47	Normal	
Polk County	3.45	89	Wetter than normal	43.95	17	Drier than normal	
SOUTHERN COUNTIES							
Manatee County	2.61	75	Normal	49.35	35	Normal	
Hardee County	2.42	75	Normal	46.71	30	Normal	
Highlands County	2.64	76	Wetter than normal	48.30	35	Normal	
Sarasota County	2.74	77	Wetter than normal	45.15	22	Drier than normal	
DeSoto County	3.31	83	Wetter than normal	43.75	22	Drier than normal	
Charlotte County	4.12	90	Wetter than normal	48.39	35	Normal	





SURFACE WATER

Lakes

Across the District, 75 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 75 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.

Compared to October data, 57 of the 75 lakes monitored for this report recorded water level increases, while 17 recorded decreases and one reported no change. Average water levels increased in the Northern, Tampa Bay and Polk Uplands by 0.15, 0.12 and 0.18 foot, respectively, while levels decreased in the Lake Wales Ridge region by 0.03 foot. District-wide, average water levels increased by 0.12 foot, compared to last month.

Compared to November 2020 data, 54 of the 75 lakes monitored for this report recorded water level decreases, while 20 recorded increases and one reported no change. In the Northern region, average levels were 0.32 foot respectively higher than last year's levels. In the Tampa Bay, Polk Uplands and Lake Wales Ridge regions, average levels were lower by 0.11, 0.86 and 0.62 foot, respectively. District-wide, average lake levels were lower by 0.28 foot, compared to last year's levels.

In November 2021, water levels in 68 of the 75 lakes were within the annual normal range, while seven were below. Lake levels in the Northern, Tampa Bay, Polk Uplands and Lake Wales Ridge regions averaged 0.67 foot, 1.32 feet, 1.69 feet and 0.72 foot, respectively, above the base of the annual normal range. District-wide, average lake levels were 1.22 feet above the base of the annual normal range. Water levels in 71 of the 75 lakes were above the drought-year levels.

SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

NORTHERN LA	AKES					Change	Change	Diff	(MELM)	(MLM)	(MF)	Period		Period	
Lake Name	County	Beginning of Record	OCT 2021	NOV 2021	NOV 2020	from OCT 2021	from NOV 2020	from MELM	Drought Year Low	Normal Year Low	Normal Year High	of Record Low	Record Low Date	of Record High	Record High Date
Crews Lake	Pasco	1986	52.74	52.66	52.36	-0.08	0.30	2.66	50.00	52.00	55.00	42.63	APR 2001	54.92	MAR 1998
Hancock Lake	Pasco	1978	101.50	101.49	100.84	-0.01	0.65	-0.51	102.00	104.00	106.50	90.00	MAR 2009	108.90	MAR 1998
Hunters Lake	Hernando	1967	17.87	18.19	17.61	0.32	0.58	2.19	16.00	17.50	20.50	11.70	JUN 2001	20.50	MAR 1970
Lake Iola	Pasco	1984	142.33	142.47	141.89	0.14	0.58	-0.03	142.50	145.00	147.50	128.96	MAY 2012	148.70	JAN 1989
Lake Lindsey	Hernando	1982	68.23	68.36	65.81	0.13	2.55	3.86	64.50	66.00	69.00	59.38	MAY 2012	69.47	MAR 1998
Little Lake (Consu	Citrus	1985	41.23	41.24	40.86	0.01	0.38	3.99	37.25	39.00	41.50	31.10	MAY 2001	42.84	SEP 2004
Lake Miona	Sumter	1985	53.57	54.75	54.37	1.18	0.38	3.75	51.00	53.00	55.00	47.88	MAY 2002	55.47	OCT 2019
Moon Lake	Pasco	1990	39.21	39.37	39.99	0.16	-0.62	3.87	35.50	37.50	40.50	32.98	APR 2009	41.26	SEP 2004
Lake Panasoffkee	Sumter	1962	40.05	40.06	40.32	0.01	-0.26	1.56	38.50	39.50	42.50	36.88	MAY 2007	43.04	OCT 2004
Lake Pasadena	Pasco	1984	91.33	91.56	92.01	0.23	-0.45	1.56	90.00	91.50	94.50	81.56	MAY 2001	94.86	OCT 2004
Spring Lake	Hernando	1965	180.43	180.51	180.47	0.08	0.04	2.26	178.25	181.25	184.25	174.85	JUN 1965	183.57	OCT 1984
Floral City Pool	Citrus	1981	41.27	41.28	41.17	0.01	0.11	3.03	38.25	40.25	42.50	0.83	MAY 2000	42.66	SEP 2004
Inverness Pool	Citrus	1985	40.16	40.12	39.96	-0.04	0.16	3.87	36.25	38.25	40.50	0.77	MAY 2000	40.89	OCT 2004
Hernando Pool	Citrus	1985	38.83	38.79	38.69	-0.04	0.10	4.04	34.75	36.75	39.00	0.86	MAY 2000	40.17	FEB 1998

TAMPA BAY LA	AKES	Beginning	ост	NOV	NOV	Change from OCT	Change from NOV	Diff from	(MELM) Drought	(MLM) Normal	(MF) Normal	Period of Record	Record	Period of Record	Record
Lake Name	County	of Record	2021	2021	2020	2021	2020	MELM	Year Low	Year Low	Year High	Low	Low Date	High	High Date
Lake Alice	Hillsborough	1981	41.04	41.05	40.70	0.01	0.35	3.55	37.50	40.25	42.25	19.84	JUN 2017	42.42	SEP 2004
Lake Ann-Parker	Pasco	1983	47.54	47.44	47.77	-0.10	-0.33	2.44	45.00	45.75	48.75	43.28	JUN 2001	49.29	AUG 2015
Bay Lake	Hillsborough	1982	45.72	45.67	45.78	-0.05	-0.11	3.17	42.50	44.00	46.75	41.86	APR 1985	46.47	DEC 1997
Lake Brant	Hillsborough	1981	57.72	57.83	58.10	0.11	-0.27	3.33	54.50	56.50	58.75	51.65	JUN 1994	59.57	AUG 2015
Brooker Lake	Hillsborough	1977	62.62	62.67	62.95	0.05	-0.28	3.67	59.00	61.00	64.25	56.49	MAY 2002	64.08	DEC 1997
Calm Lake	Hillsborough	1982	50.16	50.02	49.83	-0.14	0.19	5.02	45.00	47.50	50.50	41.88	JUN 2002	51.04	JUL 2015
Camp Lake	Pasco	1983	62.34	62.60	62.74	0.26	-0.14	3.60	59.00	61.75	64.00	50.82	MAY 2002	64.05	JUL 2015
Carlton Lake	Hillsborough	1976	90.50	91.65	91.93	1.15	-0.28	3.65	88.00	90.50	93.50	86.82	MAY 2001	94.60	FEB 1998
Lake Carroll	Hillsborough	1985	36.44	36.69	36.80	0.25	-0.11	4.19	32.50	34.50	37.00	0.90	MAY 1999	37.87	AUG 2015
Church Lake	Hillsborough	1983	35.55	35.58	35.41	0.03	0.17	4.08	31.50	34.00	36.25	27.94	MAY 2002	36.90	JUL 1987
Lake Cooper	Hillsborough	1980	60.18	60.02	60.46	-0.16	-0.44	3.02	57.00	59.75	61.75	55.60	JUN 2001	62.44	AUG 2015
Crescent Lake	Hillsborough	1981	41.98	41.98	42.08	0.00	-0.10	3.48	38.50	40.00	42.50	35.34	JUN 2001	42.89	SEP 2017
Deer Lake	Hillsborough	1977	66.36	66.54	66.73	0.18	-0.19	4.04	62.50	64.50	67.25	60.72	MAY 2002	67.42	DEC 1997
Egypt Lake	Hillsborough	1978	36.42	36.51	36.63	0.09	-0.12	4.01	32.50	35.00	37.50	33.06	MAY 2000	38.15	SEP 1985
Gornto Lake	Hillsborough	1979	37.82	37.96	36.84	0.14	1.12	3.96	34.00	36.00	38.50	29.86	MAR 1979	39.48	FEB 1998
Lake Harvey	Hillsborough	1970	60.85	61.29	61.45	0.44	-0.16	3.29	58.00	60.25	62.50	53.94	MAY 2002	63.90	DEC 1997
Lake Hiawatha	Hillsborough	1981	50.11	50.08	50.50	-0.03	-0.42	5.08	45.00	48.00	50.50	46.14	JUN 2000	51.16	JUL 2019
Horse Lake	Hillsborough	1930	46.59	46.46	45.11	-0.13	1.35	4.46	42.00	44.00	46.50	0.83	MAR 2000	50.00	AUG 1959
Lake Keene	Hillsborough	1981	62.42	61.89	62.33	-0.53	-0.44	2.89	59.00	60.50	63.00	56.12	JUN 2002	63.69	SEP 2017
Keystone Lake	Hillsborough	1984	41.75	41.49	41.75	-0.26	-0.26	2.49	39.00	39.75	42.00	0.92	MAY 2000	43.64	AUG 2015
King Lake	Pasco	1983	102.98	103.20	103.30	0.22	-0.10	3.20	100.00	102.50	105.25	94.20	APR 2009	104.80	MAR 1987
Lake Leclare	Hillsborough	1977 1983	50.94 65.56	51.06 65.74	51.24	0.12 0.18	-0.18	4.06 3.74	47.00 62.00	49.50	52.00	44.95	JUN 2001	52.99 67.17	JUL 2015
Lake Linda	Pasco	1983	45.44	45.46	65.76 45.63	0.18	-0.02 -0.17	3.74	42.00	64.00 43.50	66.75 46.50	60.07 38.06	MAY 2001 JUN 1994	48.55	SEP 2017 JUN 2017
Little Lake	Hillsborough	1979	45.44 45.35	45.46 45.46	45.63 46.73	0.02	-0.17 -1.27	3.46 3.46	42.00 42.00	44.00	46.50 46.50	36.33	MAY 1979	48.55 48.27	SEP 1998
Long Pond Mud (Walden) Lake	Hillsborough Hillsborough	1978	112.79	112.87	112.87	0.11	0.00	2.37	110.50	112.50	115.00	111.45	MAY 1979 MAY 2017	114.42	MAR 1978
Lake Padgett	Pasco	1965	69.55	69.51	69.70	-0.04	-0.19	2.37	67.50	69.00	71.25	66.27	JUN 2001	71.90	SEP 1988
Platt Lake	Hillsborough	1981	49.51	49.52	49.67	0.04	-0.19	3.52	46.00	47.75	50.50	42.53	JUN 2001 JUN 2001	51.61	AUG 2015
Rainbow Lake	Hillsborough	1981	39.53	39.71	38.69	0.18	1.02	4.71	35.00	37.50	40.50	29.82	JUN 2001	40.95	JUL 2015
Lake Stemper	Hillsborough	1983	60.48	60.59	60.76	0.16	-0.17	2.59	58.00	59.50	62.00	53.36	JUN 2002 JUN 2001	61.68	SEP 2004
Lake Thomas	Hillsborough	1981	62.63	62.82	63.03	0.11	-0.17	3.57	59.25	61.25	63.50	56.48	JUN 2001 JUN 2002	64.13	AUG 2015
Turkev Ford Lake	Hillsborough	1970	50.62	50.85	51.77	0.19	-0.92	0.85	50.00	51.50	54.00	48.07	JUN 1985	55.28	SEP 1988
Lake Wimauma	Hillsborough	1985	79.41	80.51	81.23	1.10	-0.92	-0.49	81.00	83.00	86.75	70.12	MAY 2001	84.38	MAR 1998
Lanc Williaullia	imisporougii	1303	/ 5.41	00.51	01.23	1.10	-0.72	-0.43	01.00	33.00	00.75	/0.12	IVIA I 2001	04.50	IAIVI 1930

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

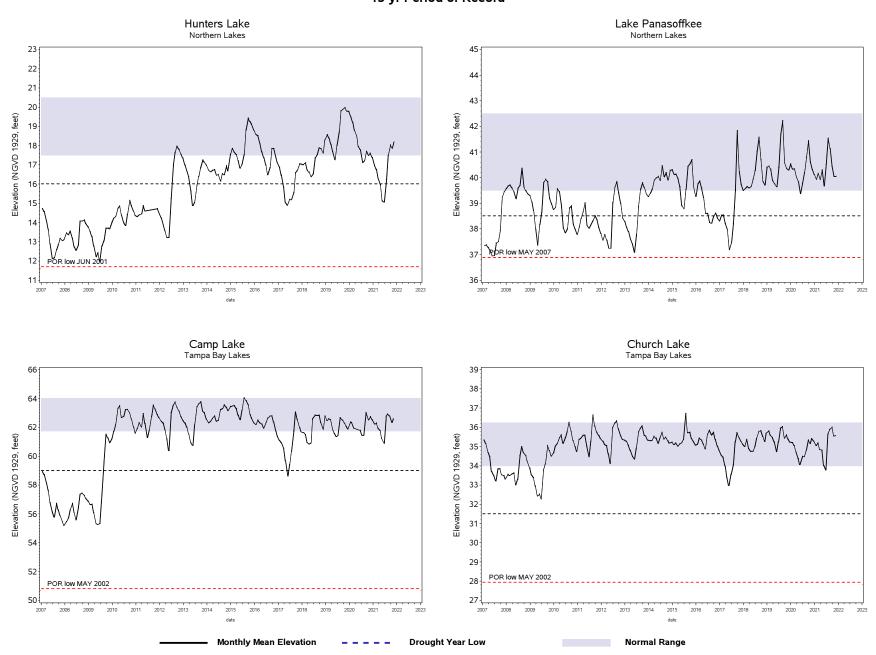
SUMMARY OF LAKE ELEVATIONS OF REGIONAL LAKES (feet)

POLK UPLAN	DS LAKES	Beginning	ост	NOV	NOV	Change from OCT	Change from NOV	Diff from	(MELM) Drought	(MLM) Normal	(MF) Normal	Period of Record	Record	Period of Record	Record
Lake Name	County	of Record	2021	2021	2020	2021	2020	MELM	Year Low	Year Low	Year High	Low	Low Date	High	High Date
Lake Alfred	Polk	1990	131.18	131.25	132.74	0.07	-1.49	5.00	126.25	128.25	130.75	124.17	MAY 2013	132.77	DEC 2020
Lake Ariana	Polk Polk	1984	136.05	136.21	136.99	0.16	-0.78	3.71	132.50	134.50	137.00	131.68	MAY 2009	137.66	JAN 2016
Lake Arietta Blue Lake South	Polk	1970 1986	141.85 114.81	142.02 114.61	142.53 117.55	0.17 -0.20	-0.51 -2.94	4.02 2.11	138.00 112.50	141.00 114.00	144.00 117.00	136.50 103.38	MAY 1977 FEB 1991	144.12 119.19	SEP 2004 DEC 2005
Lake Bonny	Polk	1954	130.22	130.59	130.79	0.37	-0.20	4.59	126.00	128.00	130.50	122.34	MAY 2009	133.08	SEP 2004
Lake Buffum	Polk	1982	131.30	131.31	132.00	0.01	-0.69	4.56	126.75	129.25	132.25	123.90	JUN 1991	133.00	JUN 2005
Clearwater Lake	Polk	1979	141.56	141.76	143.93	0.20	-2.17	2.76	139.00	141.00	143.50	137.93	MAY 2001	146.06	AUG 1984
Lake Conine	Polk	1989	128.19	128.33	128.62	0.14	-0.29	3.83	124.50	126.50	128.75	123.83	NOV 2009	129.95	SEP 2004
Eagle Lake	Polk	1965	129.33	129.44	129.85	0.11	-0.41	2.94	126.50	128.50	130.75	120.87	MAY 1967	131.50	SEP 1996
Lake Fannie	Polk	1967	125.20	125.26	125.50	0.06	-0.24	5.26	120.00	123.50	125.75	58.51	JUN 2008	127.51	SEP 2004
Lake Garfield	Polk	1982	101.64	102.28	102.80	0.64	-0.52	2.28	100.00	101.00	104.75	97.38	JUN 2001	105.70	FEB 1998
Lake Hamilton	Polk	1962	120.54	120.57	121.35	0.03	-0.78	3.32	117.25	119.00	121.50	111.25	MAR 2008	123.96	OCT 2004
Lake Helene	Polk	1961	142.65	142.76	145.37	0.11	-2.61	3.76	139.00	141.00	144.00	134.06	JUN 2008	146.71	OCT 2017
Lake Howard	Polk	1987	131.45	131.60	132.01	0.15	-0.41	4.60	127.00	129.50	132.00	127.69	MAY 2001	133.08	SEP 2004
Lake Juliana	Polk	1984	132.68	132.98	133.80	0.30	-0.82	5.48	127.50	130.00	132.50	127.40	NOV 2009	134.12	SEP 2020
Lake Mcleod	Polk	1983	129.85	129.91	130.87	0.06	-0.96	1.91	128.00	129.50	132.00	120.76	JUL 1985	131.98	SEP 1998
Lake Otis	Polk	1954	127.39	127.53	127.79	0.14	-0.26	4.53	123.00	125.00	128.00	119.58	MAY 1976	129.12	SEP 1960
Lake Ruby	Polk	1974	124.24	124.85	125.03	0.61	-0.18	3.85	121.00	123.00	125.25	120.68	JUN 1974	125.98	SEP 2004
Lake Gibson	Polk	1984	142.70	142.91	142.95	0.21	-0.04	1.41	141.50	141.50	143.50	140.21	MAY 2009	145.40	SEP 1988
LK WALES RI	DGE LAKES	l <u> </u>				Change	Change	Diff	(MELM)	(MLM)	(MF)	Period		Period	
		Beginning	ост	NOV	NOV	from OCT	from NOV	from	Drought	Normal	Normal	of Record	Record	of Record	Record

LK WALES F	RIDGE LAKES					Change	Change	Diff	(MELM)	(MLM)	(MF)	Period		Period	
Lake Name	County	Beginning of Record	OCT 2021	NOV 2021	NOV 2020	from OCT 2021	from NOV 2020	from MELM	Drought Year Low	Normal Year Low	Normal Year High	of Record Low	Record Low Date	of Record High	Record High Date
Lake Annie	Polk	1983	116.99	117.02	118.15	0.03	-1.13	3.02	114.00	116.00	119.00	108.36	JUN 1990	118.15	NOV 2020
Lake Clay	Highlands	1983	77.83	77.87	78.13	0.04	-0.26	2.87	75.00	76.00	78.75	74.34	MAY 2001	78.82	JUN 2013
Crooked Lake	Polk	1982	119.39	119.23	121.55	-0.16	-2.32	2.23	117.00	118.50	122.00	106.28	APR 1991	123.44	AUG 2005
Lake Jackson	Highlands	1984	102.51	102.57	103.37	0.06	-0.80	4.57	98.00	100.00	103.00	96.47	JUN 2008	103.75	SEP 2017
Lake Letta	Highlands	1981	98.27	98.41	98.31	0.14	0.10	3.41	95.00	97.00	100.00	90.27	JUN 2008	100.74	OCT 2017
Lake Lotela	Highlands	1989	106.86	106.88	107.08	0.02	-0.20	2.88	104.00	105.00	108.50	96.63	JUN 2008	109.13	SEP 2017
Lake Placid	Highlands	1984	93.32	93.12	93.02	-0.20	0.10	3.12	90.00	91.50	94.50	88.08	JUN 2008	94.24	SEP 2003
Starr Lake	Polk	1983	106.27	106.31	107.48	0.04	-1.17	-1.69	108.00	110.00	113.00	96.23	JUL 2001	109.80	DEC 2005
Trout Lake	Highlands	1981	97.25	97.03	96.94	-0.22	0.09	2.03	95.00	98.00	101.00	87.15	MAY 2001	99.89	SEP 2016

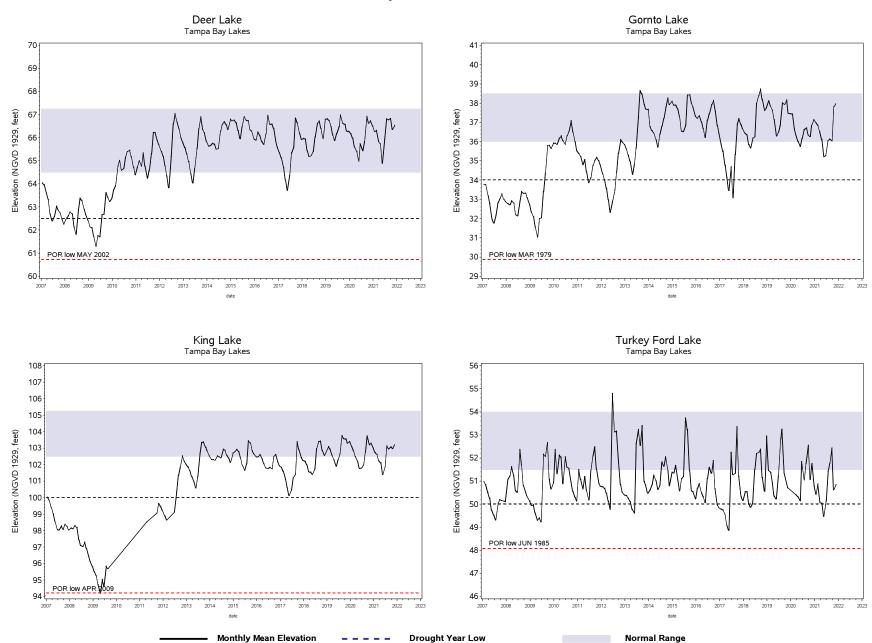
NOTE: M='no data' or 'not determined'

HYDROGRAPHS OF REGIONAL LAKES 15-yr Period of Record

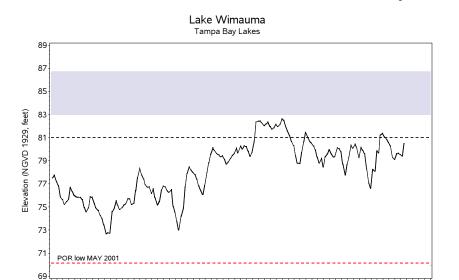


HYDROGRAPHS OF REGIONAL LAKES

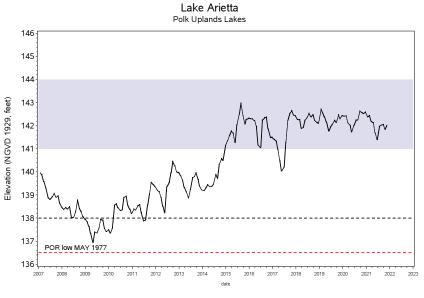
15-yr Period of Record

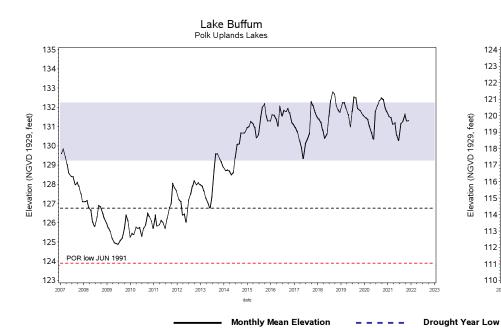


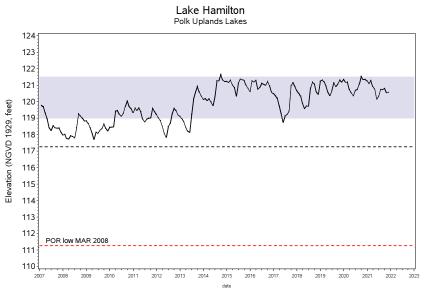
HYDROGRAPHS OF REGIONAL LAKES 15-yr Period of Record



2014



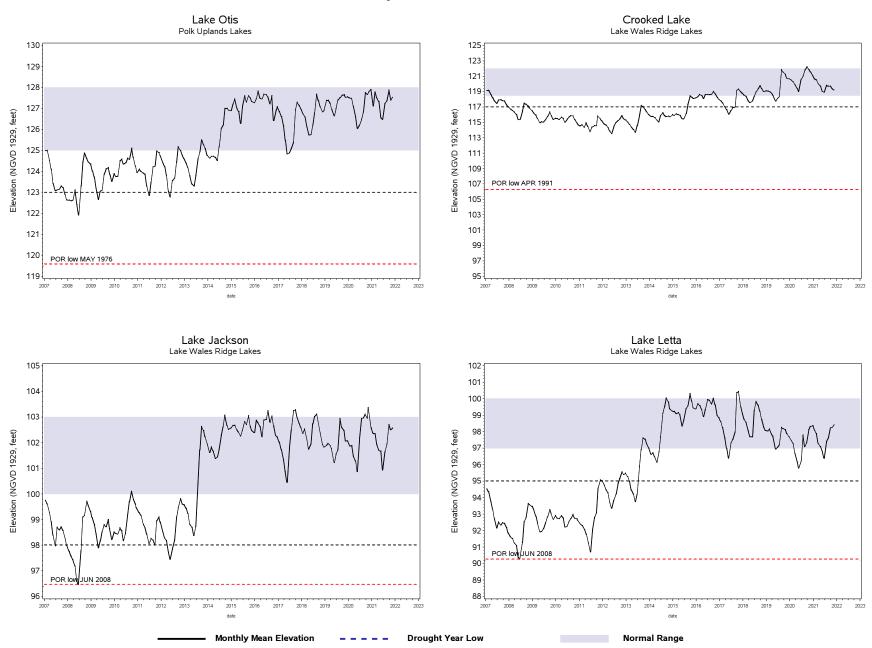




Normal Range

HYDROGRAPHS OF REGIONAL LAKES

15-yr Period of Record



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 median. The zero percentile indicates a new period-of-record low and the 100th percentile is a new record high level. 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, reflecting the normal range of readings for the month.

Compared to October data, seven of the 12 stations monitored for this report recorded increased streamflow, while five recorded decreases.

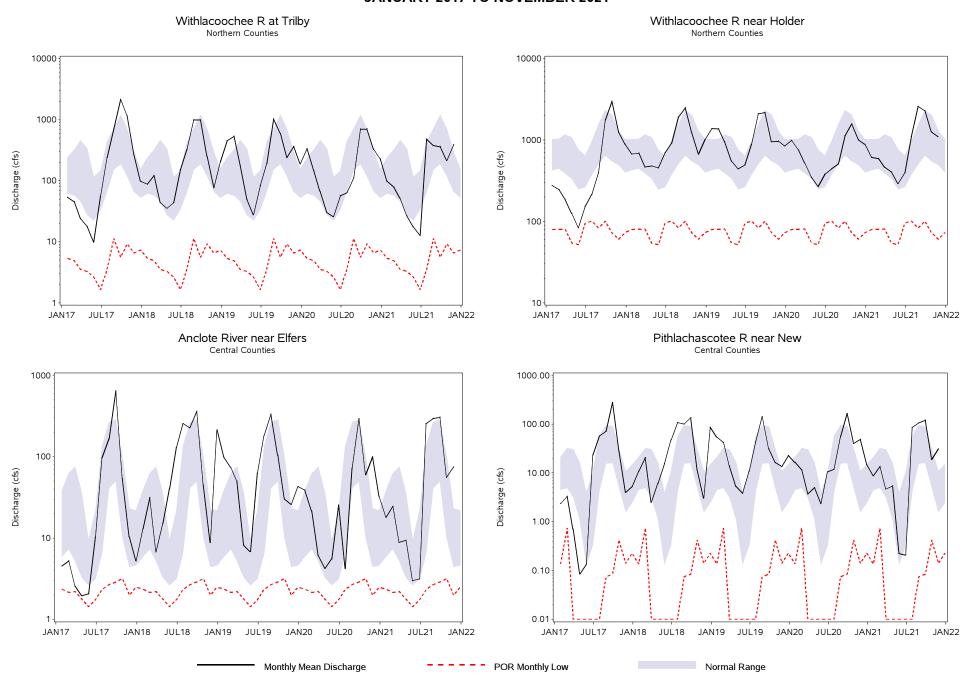
Compared to November 2020 data, 10 of the 12 stations recorded streamflow decreases, while two recorded increases.

Compared to historical November discharge values, Withlacoochee River streamflow, measured at the Trilby station and the Holder station averaged in the 85th and 69th percentiles, respectively. Streamflow measured at the stations on the Anclote, Pithlachascotee and Hillsborough Rivers averaged in the 96th, 95th and 94th percentiles of respective historical November readings. Streamflow measured at the Alafia River, Little Manatee River and Peace River at Bartow stations averaged in the 98th, 94th and 40th percentiles of respective historical November readings. Additionally, streamflow measured at the Josephine Creek, Manatee River, Myakka River and Peace River at Arcadia stations averaged in the 80th, 86th, 82nd and 62nd percentiles of respective historical November readings.

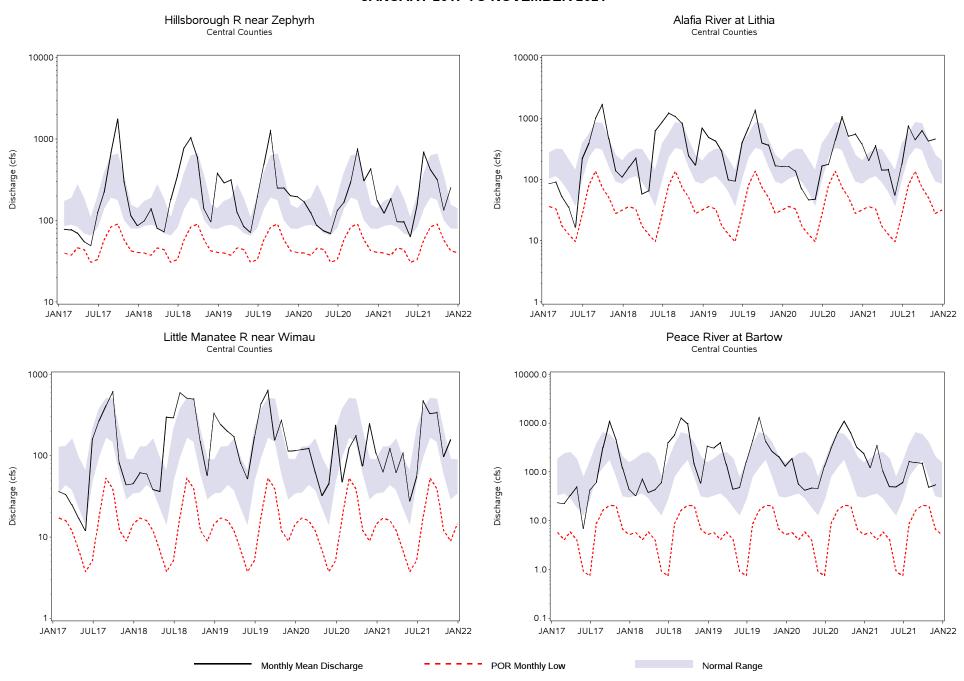
SUMMARY OF STREAM DISCHARGE FROM MAJOR STREAMS (CFS), NOVEMBER 2021

NORTHERN COUNTIES	Beginning	Mean	Mean	Mean	Change	Change	NOV 2021	Period of	Record	Period of	Record
	Year of	Discharge	Discharge	Discharge	from	from	Percentile	Record	Low	Record	High
	Record	NOV 2021	OCT 2021	NOV 2020	OCT 2021	NOV 2020	Rank	Low	Date	High	Date
Withlacoochee R at Trilby Withlacoochee R near Holder	1928	391.0	214.3	326.3	176.7	64.7	85%	0.1	JUN2000	8840	JUN1934
	1928	1106.6	1259.4	1006.4	-152.8	100.2	69%	33.0	MAR2001	8660	APR1960
CENTRAL COUNTIES											
Anclote River near Elfers Pithlachascotee R near New Hillsborough R near Zephyrh Alafia River at Lithia Little Manatee R near Wimau Peace River at Bartow	1946 1963 1939 1932 1939	74.6 31.0 251.1 466.3 156.3 54.5	55.7 19.0 134.5 432.0 98.2 48.8	99.3 49.0 430.2 561.1 246.5 312.6	18.9 12.0 116.6 34.3 58.1 5.7	-24.7 -18.0 -179.1 -94.8 -90.2 -258.1	96% 95% 94% 98% 94% 40%	0.8 0.0 27.0 4.1 0.9	MAY1962 MAY2021 MAY2001 JUN2000 DEC1976 MAY2009	3710 2180 12300 40800 11100 4100	JUL1960 JUN2012 MAR1960 SEP1933 SEP1960 SEP1947
SOUTHERN COUNTIES											
Josephine Cr near DeSoto Ci	1946	79.3	102.4	129.6	-23.1	-50.3	80%	0.5	MAY1956	1680	SEP1948
Manatee River near Myakka H	1966	52.6	64.7	125.1	-12.1	-72.5	86%	0.1	MAY1975	6440	JUN2003
Myakka River near Sarasota	1936	170.7	260.7	341.9	-90.0	-171.2	82%	0.0	JUN2012	10800	JUN2003
Peace River at Arcadia	1931	483.9	610.1	1392.1	-126.2	-908.2	62%	5.6	MAY2000	34700	SEP1933

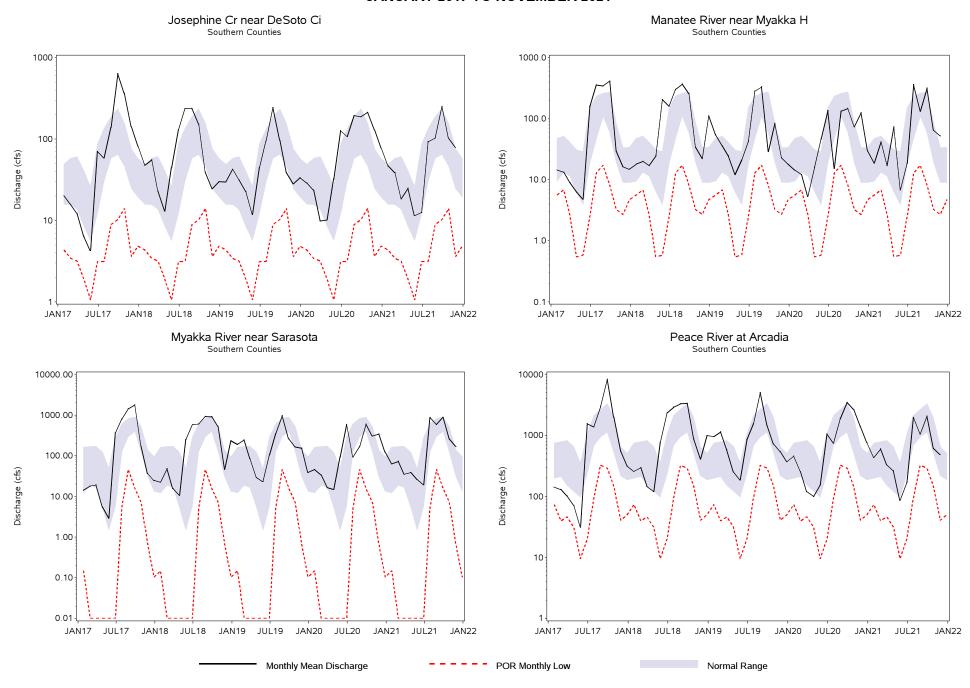
HYDROGRAPHS OF MAJOR STREAMS JANUARY 2017 TO NOVEMBER 2021



HYDROGRAPHS OF MAJOR STREAMS JANUARY 2017 TO NOVEMBER 2021



HYDROGRAPHS OF MAJOR STREAMS JANUARY 2017 TO NOVEMBER 2021



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 six 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). 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, where the normal range is defined by flows between the 25th to 75th percentiles. The zero percentile indicates a new period-of-record low and the 100th percentile is a new record high. The values reported are provisional and are subject to revision at the end of the water year.

Compared to October data, five of the six stations monitored for this report recorded decreased springflow, while one station reported increases.

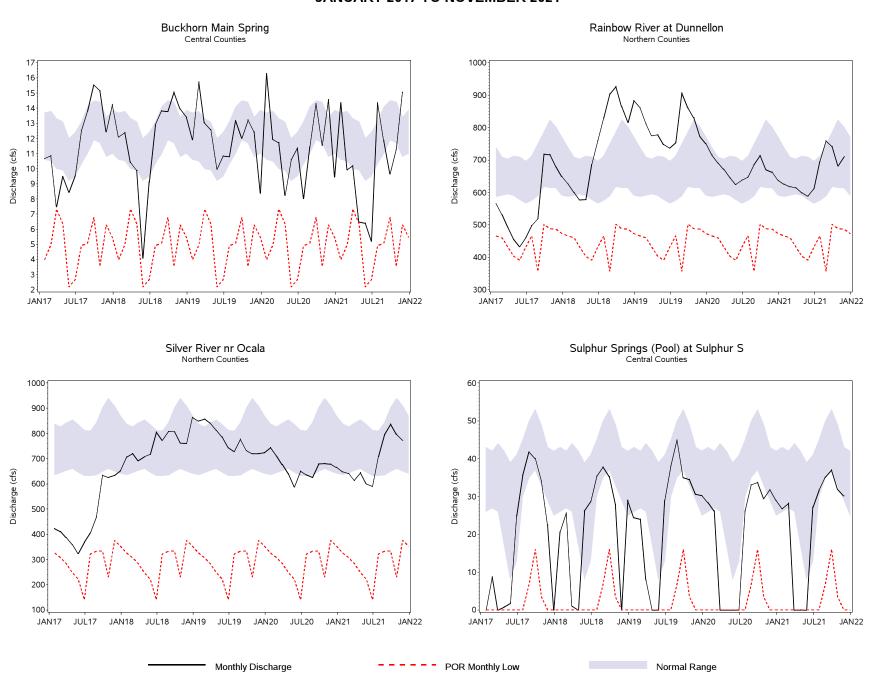
Compared to November 2020 data, five of the six stations recorded increased springflow, while one station reported decreases.

Compared to historical period-of-record values for November, total springflow measured in Rainbow, Silver and Weeki Wachee Springs, in the northern region, was in the 55th, 52nd and 85th percentiles, respectively, of historical November readings. Springflow measured in Sulphur, Buckhorn and Lithia Springs in the central region, was in the 45th, 87th and 76th percentiles, respectively, of historical November readings.

SUMMARY OF SPRINGS DISCHARGE FROM MAJOR SPRINGS (CFS), NOVEMBER 2021

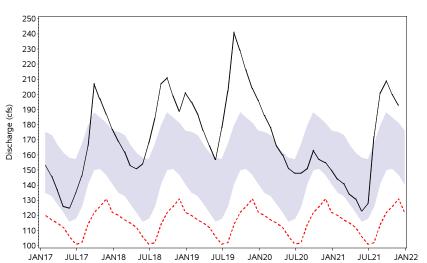
NORTHERN COUNTIES	NOV 2021 Discharge	OCT 2021 Discharge	NOV 2020 Discharge	Change From OCT 2021	Change From NOV 2020	NOV 2021 Percentile Rank	Period of Record Low	Record Low Date	Period of Record High	Record High Date
Rainbow Springs	711.0	734.4	664.1	-23.4	46.9	55%	357.0	AUG2021	1060.0	SEP1988
Silver Springs	788.3	820.8	674.2	-32.5	114.1	52%	141.0	JUN2012	1290.0	OCT1960
Weeki Wachee Springs	197.4	204.1	156.3	-6.7	41.1	85%	101.0	JUN1994	257.0	OCT2004
CENTRAL COUNTIES										
Sulphur Springs	32.1	33.6	30.8	-1.5	1.3	45%	0.0	JUN1994	145.0	MAR1960
Buckhorn Springs	14.9	10.3	13.2	4.6	1.7	87%	2.2	MAY2006	32.7	AUG2004
Lithia Springs	53.7	58.1	55.3	-4.4	-1.6	76%	6.2	OCT2012	91.5	NOV2004

HYDROGRAPHS OF REGIONAL SPRINGS JANUARY 2017 TO NOVEMBER 2021

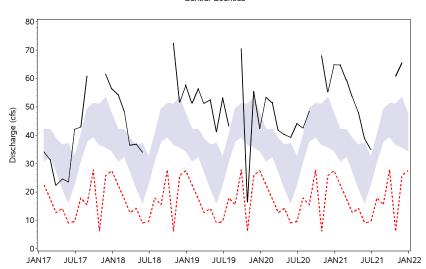


HYDROGRAPHS OF REGIONAL SPRINGS JANUARY 2017 TO NOVEMBER 2021





Lithia Springs Central Counties



GROUNDWATER

The groundwater section of this report provides groundwater level information for the Upper Floridan Aquifer (UFA) located within the District. As earlier indicated, the District is divided into three geographical regions defined by county boundaries (see index maps in the Appendix). In the northern counties, the UFA is generally at or near land surface, allowing rainfall to easily recharge (replenish) the aquifer system. In the central counties, the UFA can be unconfined or confined (overlain by thick clays). Where the UFA is confined, recharge to the aquifer from rainfall is low. In the southern counties, the UFA is confined.

Eighty-two UFA monitor wells are measured for this report to determine the relative health of groundwater levels District-wide. Only monitor wells with an adequate and reliable period-of-record of 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 wells are shown in hydrographs to compare current water levels to the low normal and high normal levels. Data from all 81 wells is further compiled into regional statistics for the three regions of the District. There are 20 wells located in the northern counties, 32 wells located in the central counties and 29 wells located in the southern counties, that are currently used for determining the regional percentiles. The potentiometric levels of representative Floridan aguifer wells are used to produce the potentiometric surface maps presented in this report.

Upper Floridan Aquifer

Since October, 44 of the 81 wells monitored for this report recorded water level decreases, while 37 recorded increases. Regionally, average water levels decreased in the northern counties by 0.48 foot, while levels increased in the central and southern counties by 0.77 and 0.30 foot, respectively. District-wide, the average water level in the UFA increased by 0.30 foot.

Compared to November 2020 data, 54 of the 81 wells monitored for this report recorded water level decreases, while 27 recorded increases. Regionally, the mean water level in the northern counties was higher by 1.85 feet, while it was lower in the central and southern counties by 1.12 and 2.64 feet, respectively. District-wide, average water levels in UFA wells were 0.93 foot lower than November 2020 levels.

In November, groundwater data showed that average regional levels in the UFA ended the month at above-normal levels in the northern counties, while ending the month at the upper-end of the normal range in the central and southern counties. The groundwater level in the northern, central and southern counties ended the month at the 89th, 72nd and 70th percentiles, respectively.

Record High Water Level

During November 2021, a "record high" monthly water level for the historic November readings was set in the following wells:

- CE 14 Dunnellon Deep, located in the Northern Counties;
 ROMP TR 10-2 Tampa, located in the Central Counties.

SUMMARY OF UPPER FLORIDAN AQUIFER LEVELS IN REPRESENTATIVE WELLS, NOVEMBER 2021

Regional Summary:

Region	NOV 2021 Mean Elevation	NOV 2021 Relation to POR Median	NOV 2021 Relation to 25th Percentile	NOV 2021 Mean Percentile Rank	OCT 2021 Mean Percentile Rank	NOV 2020 Mean Percentile Rank
Northern Counties	40.81	2.78	4.23	89%	87%	62%
Central Counties	60.61	2.06	4.75	72%	60%	87%
Southern Counties	34.33	2.01	4.41	70%	52%	93%

Regional Wells Summary:

NORTHERN COUNTIES	NOV 2021 Elev	OCT 2021 Elev	NOV 2020 Elev	Change From OCT 2021	Change From NOV 2020	NOV Historical Low Normal	NOV Historical High Normal	Departure From Low Normal	NOV 2021 Percentile Rank	Period of Record Low	Record Low Date	Period of Record High	Record High Date
CE 14 Dunnellon Deep	46.16	46.51	41.77	-0.35	4.39	37.58	43.21	8.58	100%	31.94	MAY2012	50.90	MAR1998
Chassahowitzka 1 Deep	8.37	9.08	6.44	-0.71	1.93	6.01	7.32	2.36	99%	4.80	JUN2001	9.75	SEP2004
Inverness Dot Fldn	36.49	37.14	31.50	-0.65	4.99	28.22	32.17	8.27	99%	21.70	JUN2001	37.80	OCT1982
Mascotte Deep	100.62	100.85	100.46	-0.23	0.16	98.96	100.50	1.66	82%	93.94	JUN2000	102.66	SEP1988
North Locanto Deep	6.93	7.69	4.58	-0.76	2.35	4.36	5.55	2.57	98%	2.94	MAY2001	8.10	OCT1982
ROMP 103 Suwannee/Ocala	43.57	43.73	42.90	-0.16	0.67	42.24	43.80	1.33	73%	35.38	AUG1992	48.95	OCT1982
ROMP 107 Ocala/Avon	16.77	17.62	11.59	-0.85	5.18	11.70	14.53	5.07	93%	8.08	AUG2007	19.78	NOV1982
ROMP 111 Ocala/Avon	50.66	50.71	50.31	-0.05	0.35	48.26	49.61	2.40	97%	44.23	JUL1992	53.33	SEP2004
ROMP 116 Avon Park	34.61	34.66	34.22	-0.05	0.39	31.86	33.76	2.75	91%	29.24	MAY2012	39.28	OCT2004
ROMP 119 Avon Park	46.45	47.20	44.85	-0.75	1.60	43.57	45.81	2.88	81%	39.86	MAY2012	52.20	MAR1998
ROMP 120 Avon Park	46.43	46.99	44.95	-0.56	1.48	42.39	45.51	4.04	87%	38.71	MAY2012	52.24	MAR1998
ROMP 134 Ocala/Avon	52.27	52.63	48.65	-0.36	3.62	43.74	48.31	8.53	89%	37.80	JUN2012	57.35	APR1998
ROMP 89 Ocala	92.38	93.35	92.21	-0.97	0.17	90.50	91.83	1.88	90%	82.46	JUN2000	94.93	DEC1997
ROMP 97 Avon Park	20.28	20.66	18.66	-0.38	1.62	15.95	21.16	4.33	88%	11.84	MAY2009	26.24	SEP2004
ROMP TR 124 Avon	3.73	4.09	3.43	-0.36	0.30	2.56	3.23	1.17	90%	0.77	SEP2004	7.95	JUN1995
ROMP TR 21-2 Ocala/Avpk	3.76	4.24	3.37	-0.48	0.39	2.66	3.27	1.10	88%	0.40	DEC1981	6.12	OCT1995
Sumter 13 JC 59 Up	43.87	44.54	42.62	-0.67	1.25	40.02	42.77	3.85	96%	36.52	MAY2012	47.36	AUG2021
Tidewater 1 FLDN	56.42	56.73	55.02	-0.31	1.40	53.35	56.65	3.07	75%	48.05	JUN2012	61.81	SEP1982
Webster City Fldn	85.09	85.39	83.39	-0.30	1.70	80.44	83.57	4.65	93%	74.16	MAY2012	88.77	SEP2005
Weeki Wachee Deep Repl	18.40	18.99	15.40	-0.59	3.00	15.38	19.36	3.02	66%	10.37	MAY2009	23.61	AUG1984

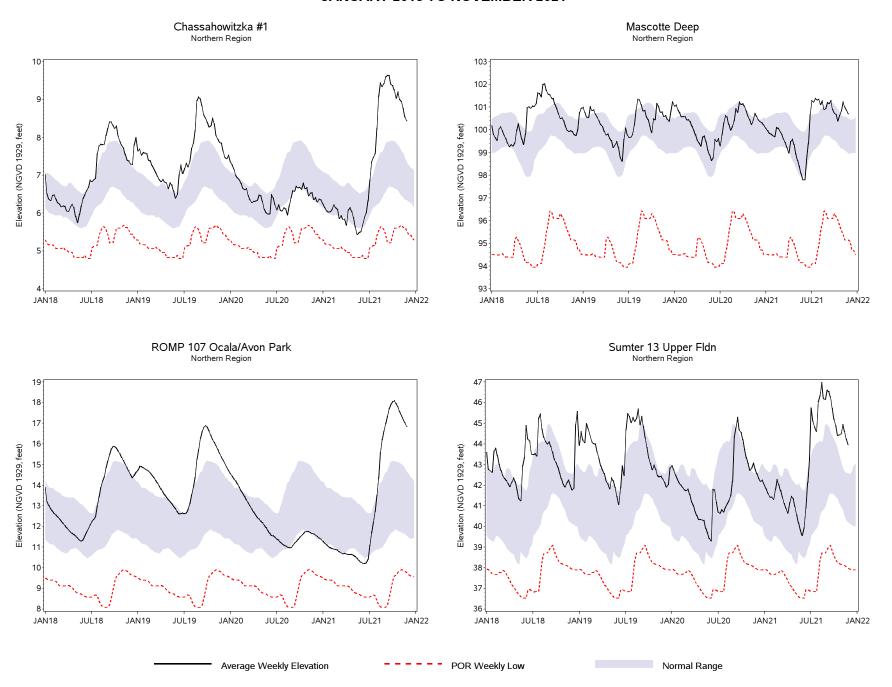
Regional Wells Summary (continued):

CENTRAL COUNTIES	NOV 2021 Elev	OCT 2021 Elev	NOV 2020 Elev	Change From OCT 2021	Change From NOV 2020	NOV Historical Low Normal	NOV Historical High Normal	Departure From Low Normal	NOV 2021 Percentile Rank	Period of Record Low	Record Low Date	Period of Record High	Record High Date
- CENTRAL COUNTES	Liev	Liev	Liev	2021	2020	IVOITIIAI	TVOTTIAI	Norman	Nank	LOW	Date	rngn	Date
Bexley 2 Fldn	61.79	62.04	62.50	-0.25	-0.71	60.24	61.82	1.55	70%	56.08	JUN2000	64.50	SEP2017
Coley Deep	85.03	85.61	87.96	-0.58	-2.93	80.47	89.00	4.56	78%	60.77	JAN2010	93.79	OCT1953
Debuel Road Deep	54.27	54.56	55.19	-0.29	-0.92	54.17	56.12	0.10	28%	46.48	APR2002	60.13	SEP1979
Hills State Park Deep	39.72	39.39	40.98	0.33	-1.26	38.02	39.33	1.70	82%	35.35	JUN2000	47.42	DEC1997
Lk Alfred Deep	128.30	127.85	129.71	0.45	-1.41	126.39	128.61	1.91	68%	119.85	MAY1974	131.18	MAR1998
Loughman Deep	89.76	89.92	90.24	-0.16	-0.48	89.55	91.35	0.21	32%	85.90	MAY2001	93.23	OCT1979
Lykes Pasco Fldn	68.65	68.49	69.34	0.16	-0.69	64.26	68.09	4.39	68%	56.94	JUN2000	75.78	OCT2004
Masaryktown Deep	37.78	38.15	35.37	-0.37	2.41	27.64	40.83	10.14	66%	21.89	AUG1994	50.32	SEP1984
Moon Lake Deep	31.30	31.46	31.60	-0.16	-0.30	31.29	31.20	0.01	26%	26.10	JUN2000	34.89	AUG2015
Pasco 13 nr Drexel	73.08	73.48	72.64	-0.40	0.44	71.72	73.27	1.36	76%	68.00	JUN2001	77.14	JUL1960
Pinellas 665 Fldn	9.52	9.86	9.93	-0.34	-0.41	9.00	10.97	0.52	62%	6.70	MAY2006	14.79	SEP1959
ROMP 123 Hawthorn/Ocala	15.78	12.05	19.07	3.73	-3.29	3.70	14.72	12.08	82%	-29.47	MAY2000	33.56	FEB1998
ROMP 40 Suwannee/Avon	44.72	44.06	49.04	0.66	-4.32	34.66	42.93	10.06	83%	-4.15	JUN2000	57.37	FEB1998
ROMP 45 Avon Park	76.76	76.27	80.41	0.49	-3.65	66.09	71.76	10.67	80%	31.75	MAY1981	84.44	OCT2004
ROMP 48 Tampa/Suwannee	40.34	37.41	43.39	2.93	-3.05	29.41	36.64	10.93	92%	-7.87	MAY2000	52.64	FEB1998
ROMP 50 Avon Park	10.06	9.48	10.27	0.58	-0.21	3.38	7.02	6.68	93%	-17.42	FEB2018	14.95	AUG1982
ROMP 58 Ocala	103.11	101.01	107.16	2.10	-4.05	100.20	102.09	2.91	59%	84.03	JUN2000	111.01	DEC2005
ROMP 59 Suwannee/Avon	77.59	76.88	81.30	0.71	-3.71	62.59	72.44	15.00	81%	33.33	MAY1981	85.92	OCT2004
ROMP 60 Ocala/Avon	77.21	75.86	79.84	1.35	-2.63	72.48	71.93	4.73	65%	25.90	MAY1975	87.07	OCT1959
ROMP 66 Tampa	20.20	20.45	20.25	-0.25	-0.05	18.19	18.96	2.01	92%	12.04	JUN1977	25.47	AUG2015
ROMP 76 U Fldn	129.28	128.36	130.85	0.92	-1.57	126.25	129.69	3.03	63%	119.37	MAY1981	132.92	SEP2004
ROMP 87 Avon Park	103.73	103.00	104.25	0.73	-0.52	101.33	102.96	2.40	91%	94.90	JUN2000	106.30	FEB1998
ROMP 88 Avon Park	105.06	104.69	105.22	0.37	-0.16	102.77	104.16	2.29	86%	97.42	JUN2000	107.21	SEP2017
ROMP 93 Suwannee/Avo	74.89	75.24	73.90	-0.35	0.99	65.99	73.03	8.90	97%	59.03	JUN2001	76.60	SEP1982
ROMP DV-1 Suwannee	55.84	43.64	57.28	12.20	-1.44	50.72	55.98	5.12	75%	12.06	JAN2010	65.72	FEB1998
ROMP TR 10-2 Tampa	12.18	12.08	11.23	0.10	0.95	9.48	10.25	2.70	100%	0.22	MAY1981	14.00	SEP2004
ROMP TR 13-3 Avon	14.96	15.15	15.84	-0.19	-0.88	15.19	16.32	-0.23	21%	10.95	JUL1987	18.79	AUG2015
SR 52 And CR581 Deep	75.80	75.94	75.27	-0.14	0.53	67.82	74.80	7.98	96%	56.96	JUN2001	79.44	AUG1965
SR 52 Deep W nr	53.07	53.28	53.62	-0.21	-0.55	51.86	52.88	1.21	84%	48.08	JUN2000	59.53	AUG2010
SR 577 Deep	93.49	93.48	93.31	0.01	0.18	84.85	92.40	8.64	87%	72.76	JUN2000	98.51	MAR1998
Sanlon Ranch Fldn	99.25	97.97	101.48	1.28	-2.23	89.64	95.83	9.61	82%	66.38	MAY1975	105.27	OCT2004
Tarpon Rd Deep	10.01	10.63	9.90	-0.62	0.11	9.77	10.78	0.24	39%	7.50	JUN2006	13.48	AUG2015

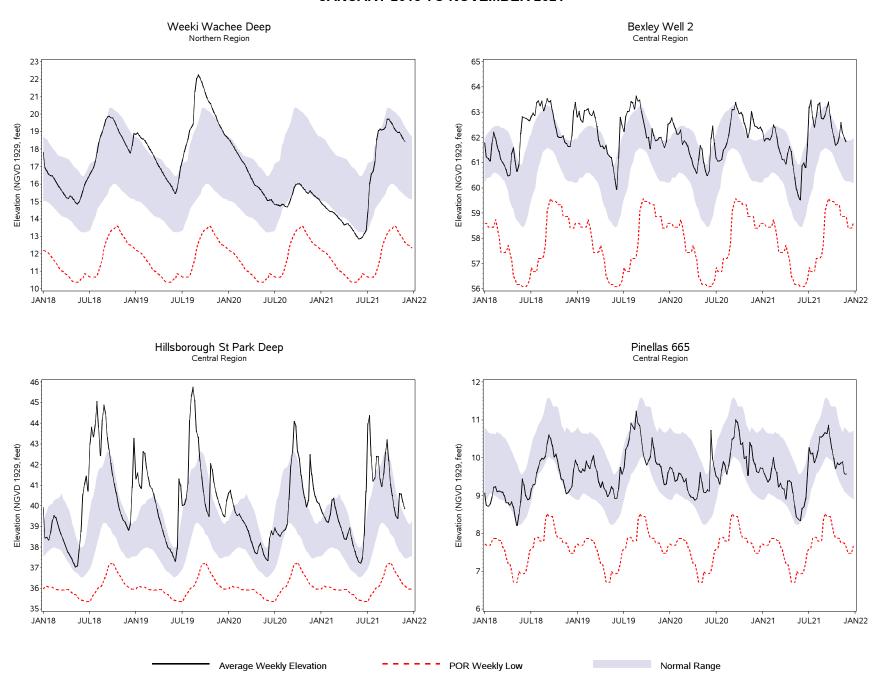
Regional Wells Summary (continued):

•	NOV.	OCT	MOV	Change	Change	NOV	NOV	Departure		Davia daf	D	Daviad of	Danand
	NOV 2021	OCT 2021	NOV 2020	From OCT	From NOV	Historical	Historical	From	2021	Period of	Record	Period of	Record
SOUTHERN COUNTIES	2021 Elev	2021 Elev	2020 Elev	2021	2020	Low Normal	High Normal	Low Normal	Percentile Rank	Record Low	Low Date	Record High	High Date
							710777147	- TTOTTTIAT	- rum				
Big Slough Deep	33.88	33.86	34.77	0.02	-0.89	32.47	33.67	1.41	76%	26.85	MAY2006	36.12	OCT1995
Cargill FA-1 Fldn	74.94	74.49	78.88	0.45	-3.94	64.12	71.67	10.82	81%	30.50	MAY1981	82.95	OCT2004
Edgeville 3 Deep	31.92	29.23	33.12	2.69	-1.20	24.44	35.21	6.87	72%	1.13	MAY2000	41.26	OCT1979
Englewood 14 Deep	2.58	7.02	6.90	-4.44	-4.32	5.36	6.19	-2.78	2%	-0.97	FEB2001	11.37	SEP1974
Kibler Deep	13.51	10.55	17.28	2.96	-3.77	4.47	14.40	9.04	68%	-29.95	MAY2000	29.30	AUG1978
Manasota 14 Deep	18.41	18.37	19.06	0.04	-0.65	18.36	21.18	0.05	28%	15.46	MAY2017	22.70	NOV1971
Marshell Deep	45.55	44.08	48.40	1.47	-2.85	39.52	47.77	6.03	72%	8.96	JUN2000	55.24	MAR1964
ROMP 16 Ocala	47.61	47.71	49.08	-0.10	-1.47	45.66	48.41	1.95	65%	28.94	JAN2001	51.21	SEP1995
ROMP 17 Up Fldn	46.55	46.23	48.03	0.32	-1.48	43.91	46.68	2.64	71%	31.89	JUN2000	51.64	OCT1994
ROMP 19 West UFA Swnn	27.08	29.41	32.20	-2.33	-5.12	23.50	29.36	3.58	44%	10.99	JUN2000	33.80	SEP2017
ROMP 19X UFA (SWNN)	35.58	35.11	37.88	0.47	-2.30	31.25	35.84	4.33	88%	19.28	JUN2000	40.19	JAN1984
ROMP 20 UFA (SWNN)	22.11	23.07	25.11	-0.96	-3.00	19.99	21.85	2.12	77%	11.99	MAY2007	26.66	SEP2017
ROMP 22 UFA (SWNN)	21.53	19.68	25.12	1.85	-3.59	15.14	20.15	6.39	81%	-3.71	MAY2000	30.18	FEB1998
ROMP 26 Suwannee/Avon	45.89	46.00	48.46	-0.11	-2.57	42.24	46.56	3.65	66%	19.48	JAN2010	51.28	OCT1979
ROMP 28X Suwannee/Avon	69.93	70.42	72.40	-0.49	-2.47	68.10	70.36	1.83	68%	57.24	JAN2010	74.68	OCT1995
ROMP 30 Suwannee/Avon	50.89	50.26	56.01	0.63	-5.12	42.06	50.10	8.83	79%	-0.20	JUN2000	60.52	MAR1998
ROMP 31 Suwannee/Avon	46.86	46.49	51.96	0.37	-5.10	37.17	45.65	9.69	80%	-6.22	JUN2000	57.92	MAR1998
ROMP 32 Low Ocala/Avpk	31.37	30.18	36.73	1.19	-5.36	21.37	31.64	10.00	83%	-17.74	JUN2000	44.73	FEB1998
ROMP 43XX Avon Park	88.09	90.04	91.44	-1.95	-3.35	83.35	89.66	4.74	56%	70.93	JAN2010	94.60	MAR1998
ROMP 9 UFA (SWNN)	43.10	42.95	44.06	0.15	-0.96	41.67	42.91	1.43	85%	37.00	JAN2001	46.35	SEP2006
ROMP TR 1-2 Up Fldn	45.72	45.87	46.28	-0.15	-0.56	44.74	45.46	0.98	83%	40.72	JUN2000	47.22	SEP2015
ROMP TR 3-1 Up Fldn	34.75	34.72	35.41	0.03	-0.66	33.52	34.13	1.23	95%	29.04	JUN2000	35.99	NOV2020
ROMP TR 5-1 Suwannee	19.55	19.74	21.66	-0.19	-2.11	18.57	20.14	0.98	54%	13.26	JUN2000	23.00	SEP1983
ROMP TR 5-2 UFA (SWNN)	26.24	26.48	29.13	-0.24	-2.89	23.78	26.61	2.46	69%	13.75	MAY2006	31.26	OCT1994
ROMP TR 7-1 Tampa	21.10	20.32	21.55	0.78	-0.45	17.37	19.36	3.73	97%	10.01	JUN2000	24.23	SEP2017
ROMP TR 7-4 Swnn/Ocala	17.74	15.74	19.44	2.00	-1.70	11.31	15.32	6.43	87%	-3.55	MAY2000	24.35	AUG2019
Romp TR SA-1 UFS (SWNN)	11.32	11.11	13.30	0.21	-1.98	9.78	15.35	1.54	71%	2.89	MAY2017	22.04	SEP1999
Sarasota Office Up	17.75	16.38	20.69	1.37	-2.94	15.70	25.74	2.05	35%	-3.24	JUN2000	35.21	MAR1931
Verna T 0-1	18.73	15.94	22.45	2.79	-3.72	12.05	19.91	6.68	69%	-15.73	MAY2000	33.32	JAN1984

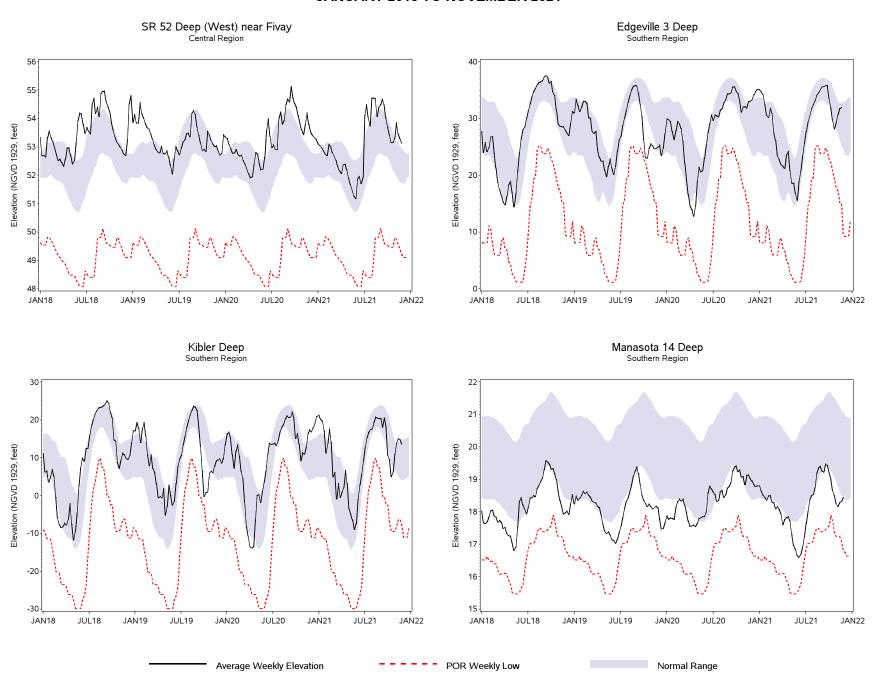
HYDROGRAPHS OF REPRESENTATIVE UPPER FLORIDAN AQUIFER WELLS JANUARY 2018 TO NOVEMBER 2021



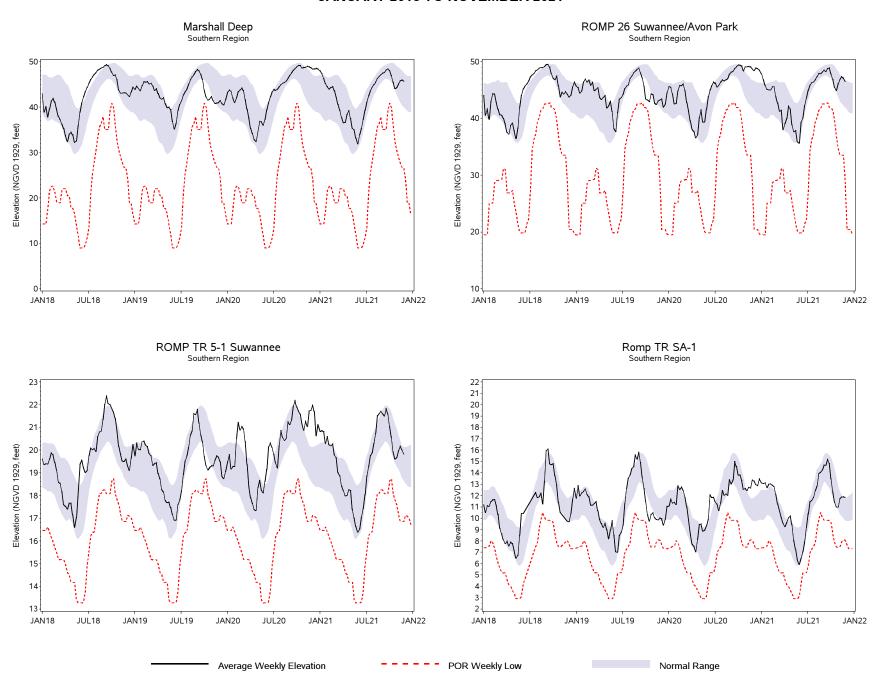
HYDROGRAPHS OF REPRESENTATIVE UPPER FLORIDAN AQUIFER WELLS JANUARY 2018 TO NOVEMBER 2021

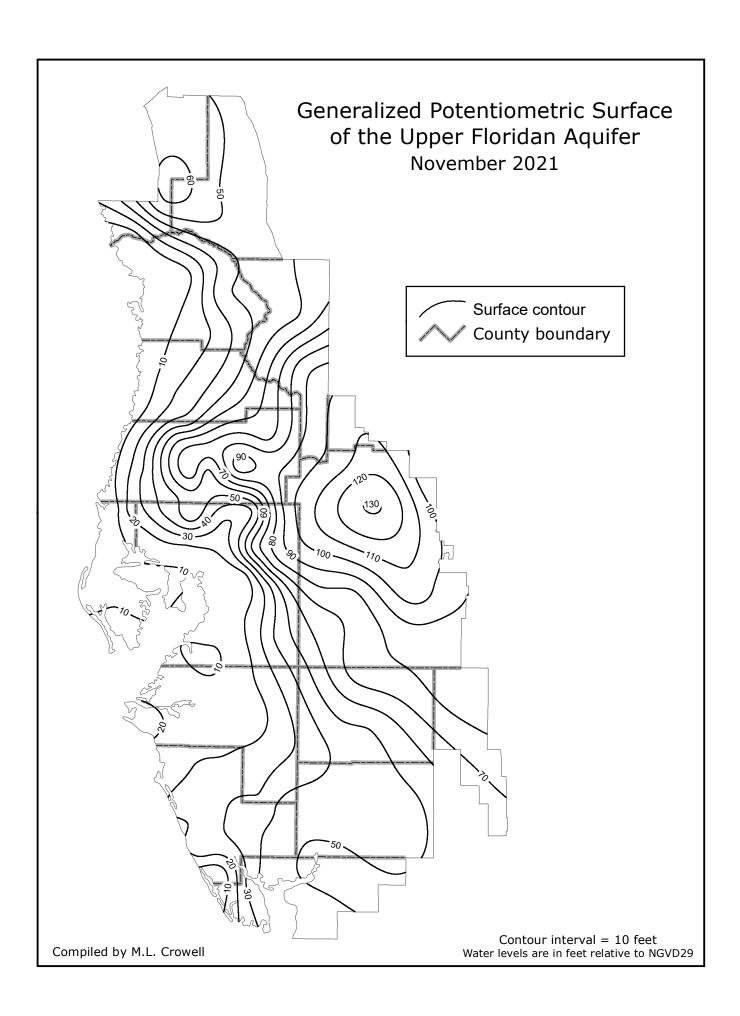


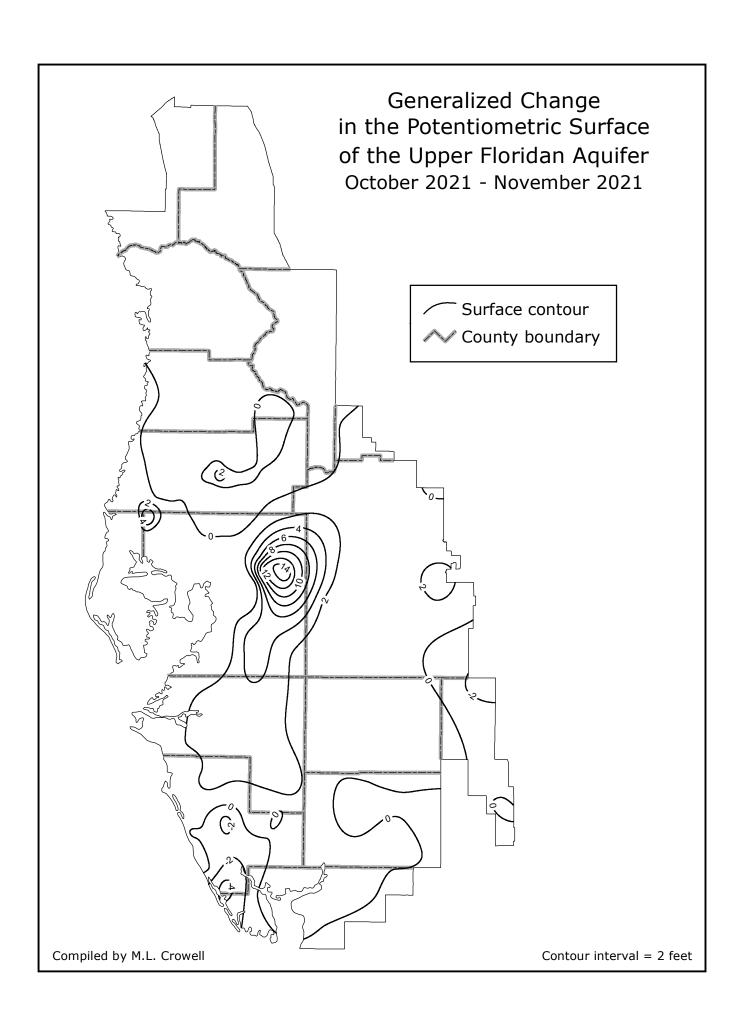
HYDROGRAPHS OF REPRESENTATIVE UPPER FLORIDAN AQUIFER WELLS JANUARY 2018 TO NOVEMBER 2021

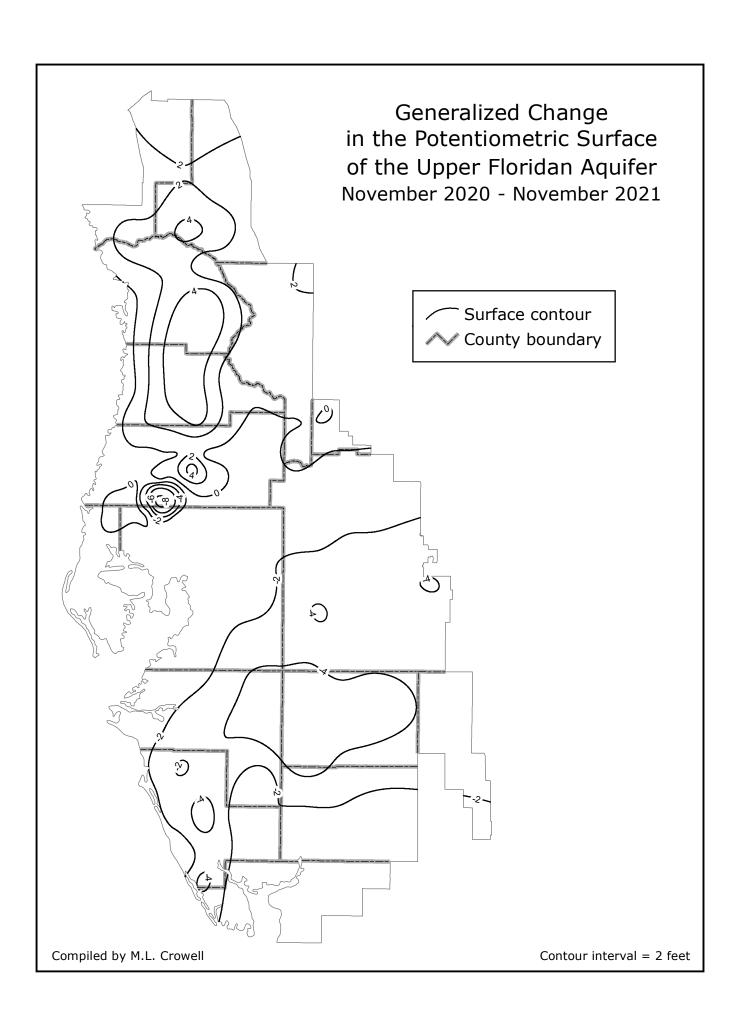


HYDROGRAPHS OF REPRESENTATIVE UPPER FLORIDAN AQUIFER WELLS JANUARY 2018 TO NOVEMBER 2021









Regional Aquifer Resource Index

Aquifers are underground layers of rock and sand that hold water. In southwest Florida, more than 80 percent of the water supply comes from aquifers. The Regional Aquifer Resource Index (ARI) was created to provide information to the media, residents, local governments and other interested parties about current groundwater conditions and how they compare to historical records. The underlying purpose of this index is to provide the public with a gauge of groundwater conditions in their area, so they can develop an understanding of the severity and cycles of drought and recovery.

This ARI report reflects percentile values to compare current aquifer levels to historical levels during the same time of year on a scale of 0-100. For example, if the regional groundwater level is at the 50th percentile, it means that half of the historical groundwater levels for this time of year were higher and half were lower than the current level.

To determine the ARI percentile value for each geographic region (indicated below), the percentile values of the monitor wells located within that region are averaged. Monitor wells with an adequate and reliable period-of-record to calculate weekly percentiles were selected for the network. A total of 81 wells District-wide are used for the ARI Network (see index map in Appendix).

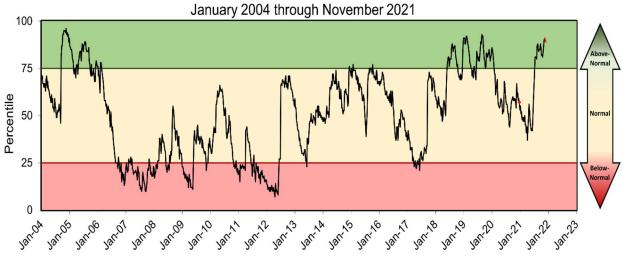
Weekly Aquifer Resource Index Level (Percentile)

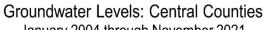
Report Date	Northern Counties	Central Counties	Southern Counties
11/03/2021	85	57	49
11/07/2021	90	76	66
11/14/2021	91	79	75
11/21/2021	90	77	76
11/30/2021	89	72	70

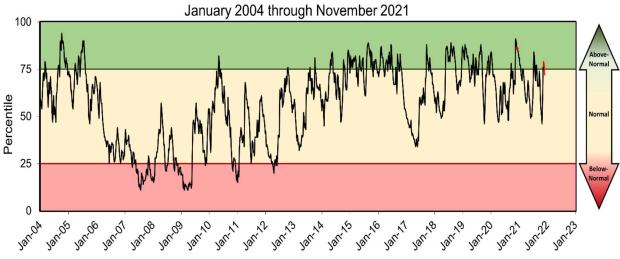
Note: Any regional percentile value that falls on or between the 25th and 75th percentile is considered "normal." Less than the 25th would be considered "below-normal," while above the 75th would be considered "above-normal."

REGIONAL AQUIFER RESOURCE INDEX November 2021

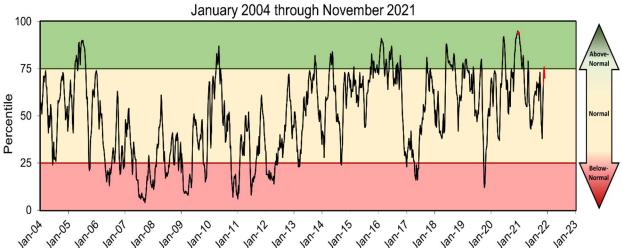
Groundwater Levels: Northern Counties







Groundwater Levels: Southern Counties



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 last weekly water-level value of the month is indicated in this report. The values reported are provisional and subject to revision.

In November, four of the seven reservoirs monitored for this report recorded water-level increases, two recorded decreases, while one recorded no change, compared to last month. The Evers, Lake Manatee, Bill Young and Peace River No. 2 reservoirs posted water level increases of 0.09, 0.42, 0.19 and 0.90 foot, respectively. The Hillsborough River and Peace River No. 1 reservoirs posted water level decreases of 0.04 and 0.80 foot. Shell Creek reservoir recorded no change, compared to last month.

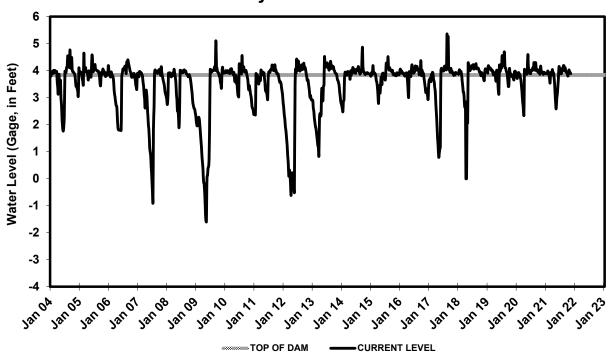
SUMMARY OF WATER LEVELS IN WATER SUPPLY RESERVOIRS (GAGE LEVEL, IN FEET)

				Change	Change
	2021	2021	2020	from Prior	from Prior
RESERVOIR	October	November	November	Month	Year
Evers					
City of Bradenton	3.80	3.89	3.96	0.09	-0.07
Hillsborough					
City of Tampa	22.80	22.76	22.79	-0.04	-0.03
Lake Manatee					
Manatee County	39.51	39.93	40.28	0.42	-0.35
C.W. Bill Young Regional					
Tampa Bay Water	135.90	136.09	136.11	0.19	-0.02
Peace River					
PRMRWSA Reservoir #1	25.50	24.70	25.30	-0.80	-0.60
PRMRWSA Reservoir #2	61.90	62.80	62.90	0.90	-0.10
Shell Creek					
City of Punta Gorda	5.26	5.26	5.21	0.00	0.05

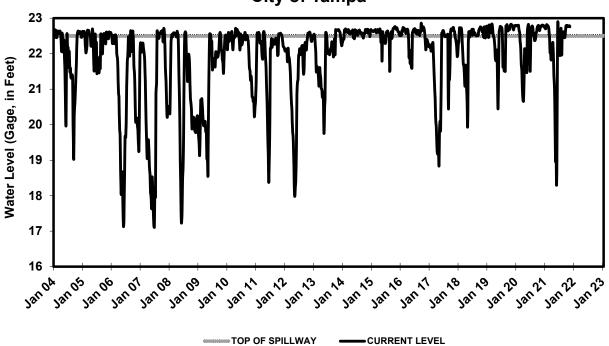
Reported data are provisional and subject to revision.

e = Estimated

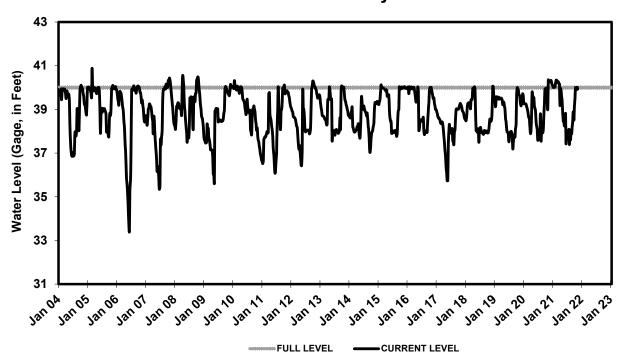
EVERS RESERVOIRCity of Bradenton



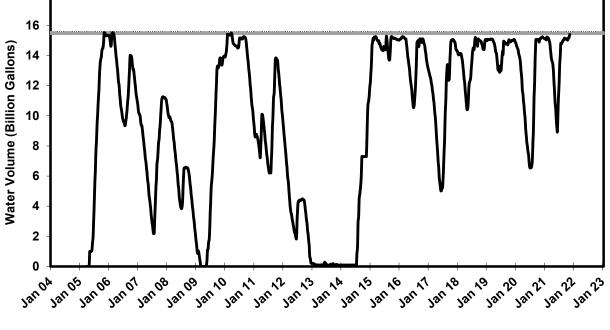
HILLSBOROUGH RESERVOIR City of Tampa



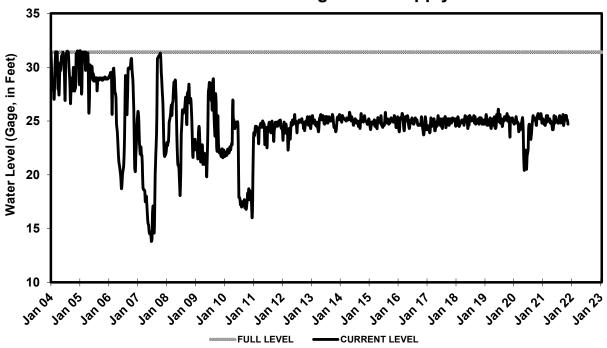
LAKE MANATEE RESERVOIR **Manatee County**



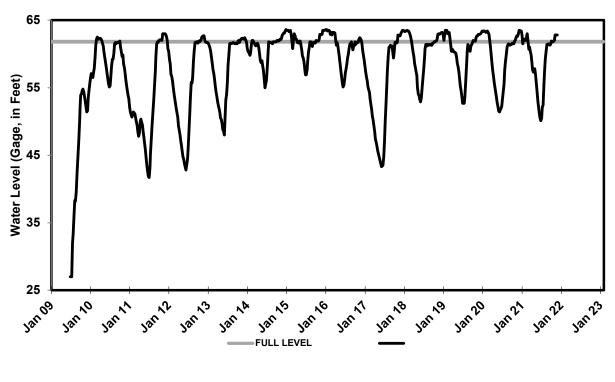
C.W. BILL YOUNG REGIONAL RESERVOIR Tampa Bay Water 18



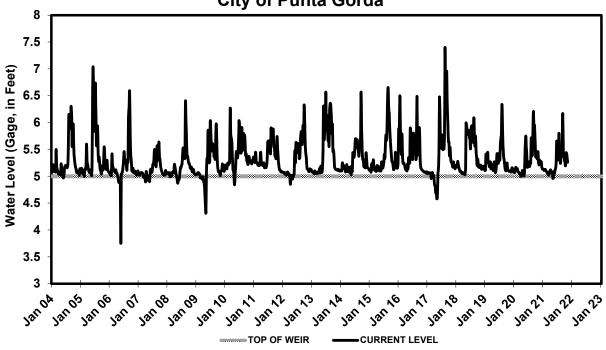
PEACE RIVER RESERVOIR No. 1 Peace/Manasota Reg. Water Supply

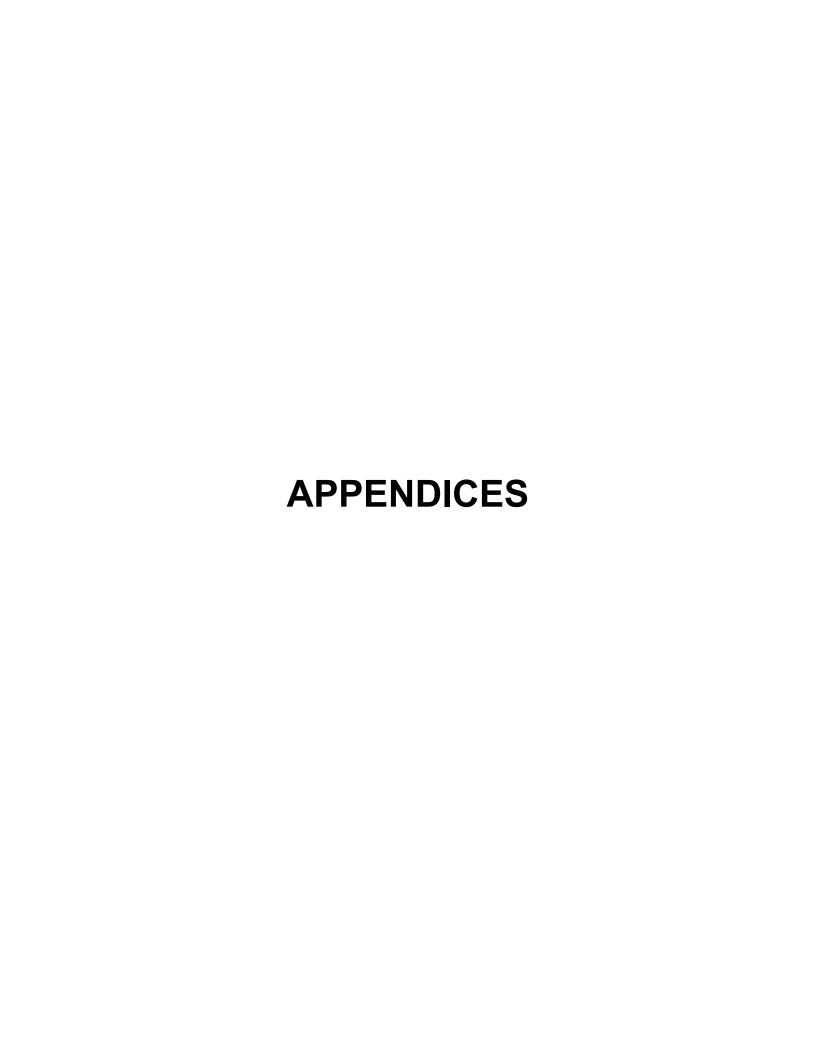


PEACE RIVER RESERVOIR No. 2 Peace/Manasota Reg. Water Supply









Rainfall percentiles by interval and region, inches.

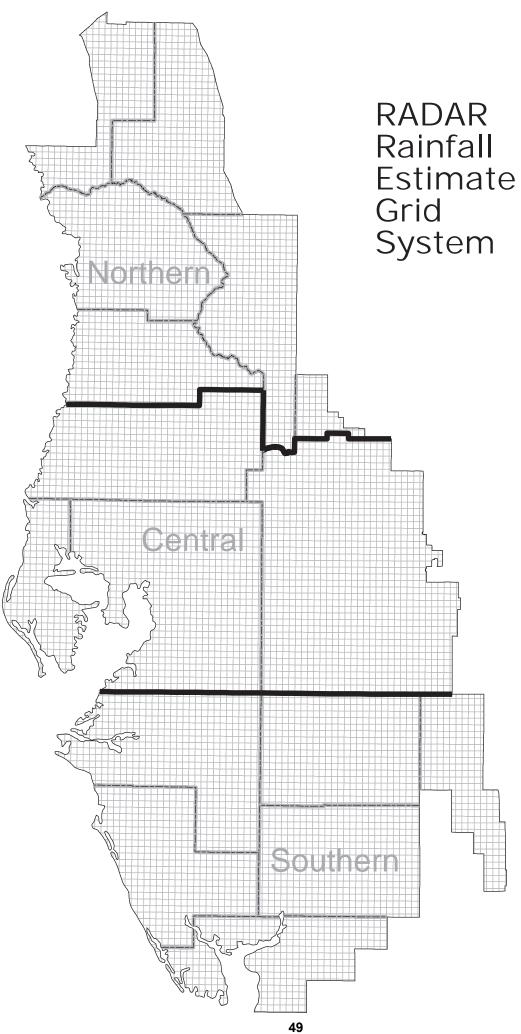
Rainian percentile	es by interval and					
Rainfall Interval	Region	10 TH Percentile (P10)	25 th Percentile (P25)	50 th Percentile (P50)	75 th Percentile (P75)	90 th Percentile (P90)
Annual total	Northern	43.19	48.35	54.01	58.86	63.46
Annual total	Central	41.45	46.10	52.16	57.28	63.82
Annual total	Southern	42.05	46.25	52.19	57.82	63.43
Annual total	District	43.12	47.22	52.99	57.46	62.83
Dry season total	Northern	15.27	18.42	23.79	28.72	32.10
Dry season total	Central	13.32	16.48	21.59	26.86	30.83
Dry season total	Southern	12.35	15.68	21.24	26.23	30.01
Dry season total	District	13.71	16.79	22.02	27.22	29.70
Wet season total	Northern	22.79	25.44	29.45	33.43	38.16
Wet season total	Central	23.22	25.79	29.71	34.86	39.22
Wet season total	Southern	24.37	27.37	30.58	35.88	41.68
Wet season total	District	23.92	27.16	29.97	34.71	38.93
January total	Northern	0.73	1.50	2.45	4.00	5.30
January total	Central	0.72	1.21	2.23	3.72	4.60
January total	Southern	0.39	0.93	1.88	3.31	4.93
January total	District	0.65	1.17	2.10	3.55	4.90
February total	Northern	0.82	1.42	2.82	4.08	5.76
February total	Central	0.60	1.12	2.38	4.17	5.50
February total	Southern	0.36	1.26	2.21	3.63	4.93
February total	District	0.73	1.32	2.38	3.94	5.12
March total	Northern	1.00	2.06	3.15	5.43	7.21
March total	Central	0.97	1.66	2.96	4.95	6.44
March total	Southern	0.81	1.28	2.56	4.29	6.68
March total	District	1.09	1.64	3.04	4.86	6.92
April total	Northern	0.65	1.33	2.38	3.95	5.52
April total	Central	0.51	0.96	1.87	3.44	5.59
April total	Southern	0.48	1.19	2.04	3.75	4.66
April total	District	0.65	1.20	2.24	3.72	5.12
May total	Northern	1.18	1.95	3.21	4.67	6.92
May total	Central	0.87	1.64	2.73	4.58	5.75
May total	Southern	1.17	1.91	3.36	5.22	6.75
May total	District	1.23	2.04	3.24	4.87	6.29
June total	Northern	4.60	5.47	7.27	8.63	10.16
June total	Central	3.65	4.79	6.46	8.27	9.48
June total	Southern	4.22	5.63	7.44	9.06	12.06
June total	District	4.55	5.46	7.24	8.60	10.99
July total	Northern	5.36	6.75	8.29	9.16	11.52
July total	Central	4.89	5.98	8.35	10.05	11.44
July total	Southern	5.68	6.94	8.11	9.50	10.99
July total	District	5.60	6.83	8.19	9.57	10.58
August total	Northern	5.44	6.30	7.31	9.72	11.33
August total	Central	5.52	6.55	7.90	9.72	12.03
August total	Southern	5.55	6.22	7.90 7.70	8.97	10.49
August total	District	5.65	6.52	7.70	9.37	10.43
September total	Northern	2.79	4.18	5.84	8.04	11.35
September total	Central	3.19	5.11	6.46	8.50	11.69
September total	Southern	4.30	5.46	6.94	9.33	11.85
September total	District	3.85	5.21	6.53	8.62	11.65
October total	Northern	0.63	1.27	2.46	4.40	6.15
October total	Central	0.69	1.39	2.40	4.40	6.13
October total	Southern	0.09	1.78	2.73	4.03	6.04
October total	District	1.06	1.76	2.73	4.27	5.79

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

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

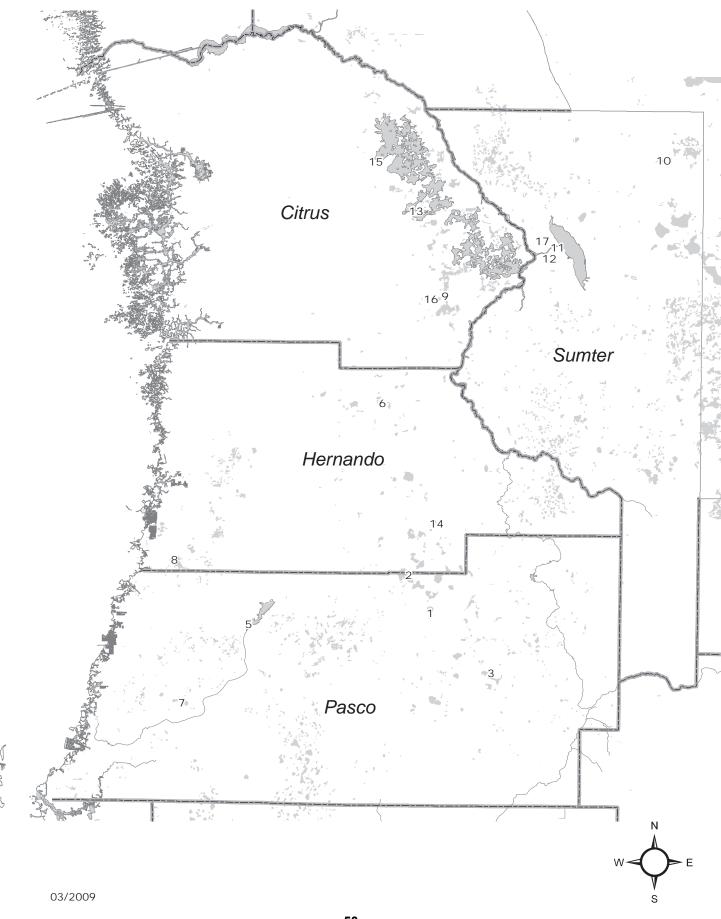
Rainfall characterization ranges

Characterization	Range	Corresponding Rainfall Percent of Normal (approximate)
Very dry	Less than the P10 rainfall	Less than 80 percent of normal
Drier than normal	P10 to P24 rainfall	80 to 90 percent of normal
Normal	P25 to P75 rainfall	90 to 110 percent of normal
Wetter than normal	P76 to P90 rainfall	110 to 120 percent of normal
Very Wet	Greater than the P90 rainfall	Greater than 120 percent of normal

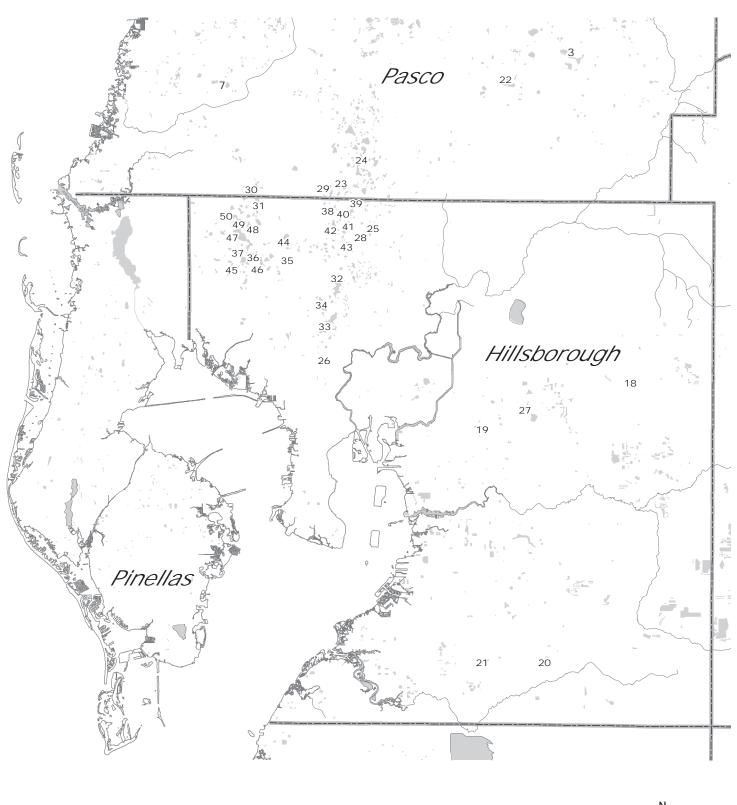




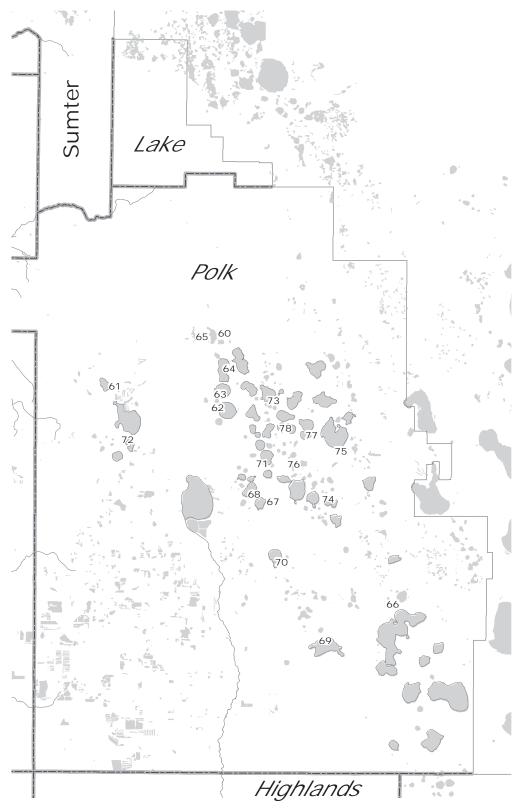
Selected Lake Monitoring Stations Northern Region



Selected Lake Monitoring Stations Tampa Bay Region

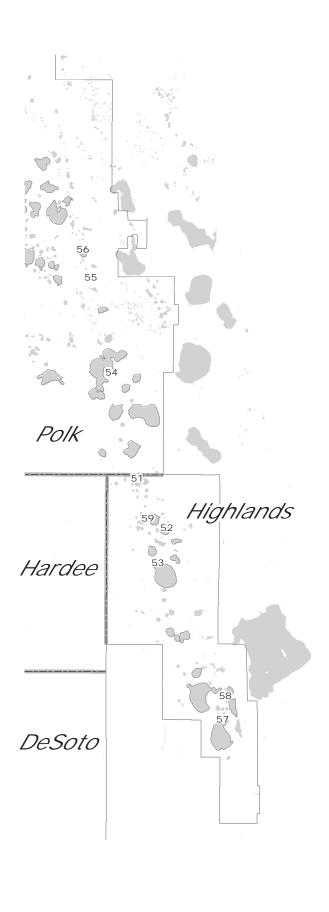


Selected Lake Monitoring Stations Polk Uplands Region





Selected Lake Monitoring Stations Lake Wales Ridge Region





Selected Lake Monitoring Stations

Northern Region

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

Tampa Bay Region

Map ID	Site Name		
18		Map ID	Site Name
19	Mud (Walden) Lake Gornto Lake	40	Lake Brooker
		41	Cooper Lake
20	Carlton Lake	42	Lake Thomas
21	Lake Wimauma		
22	King Lake near San Antonio	43	Brant Lake
23	Lake Linda	44	Turkey Ford Lake
24	Lake Padgett	45	Church Lake
25	Keene Lake	46	Horse Lake
26	Egypt Lake	47	Lake Alice
27	Long Pond	48	Lake Calm
28	Lake Stemper	49	Keystone Lake
29	Camp Lake	50	Crescent 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	Lancial VC V		

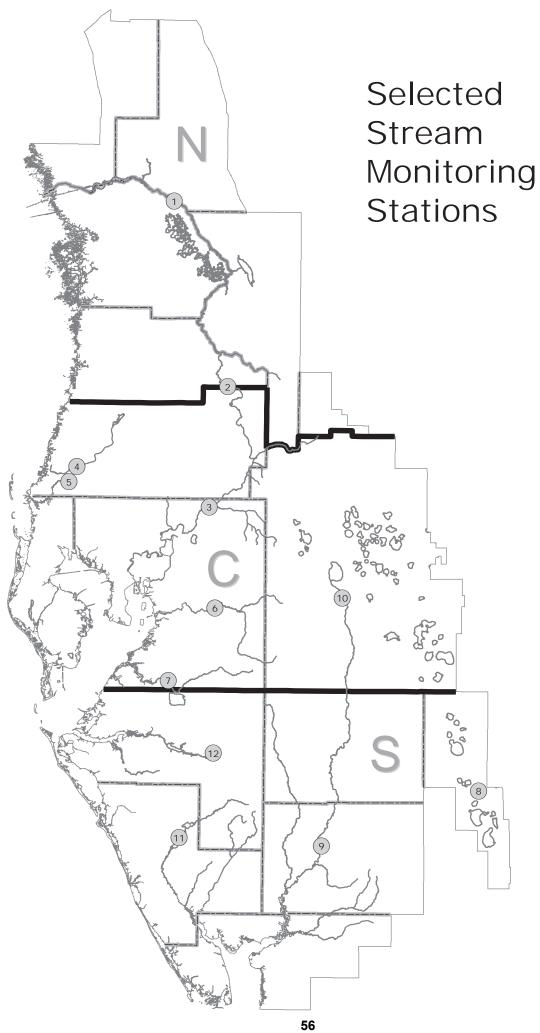
Selected Lake Monitoring Stations

Lake Wales Ridge Region

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

Polk Uplands Region

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





Selected Stream Monitoring Stations

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

STREAM MONITORING STATIONS

WITHLACOOCHEE RIVER (Northern Region)

Total length: 157 miles

Headwaters: NW Polk and southern Sumter Counties

Elevation: 135 feet

Tributaries: Little Withlacoochee, Big Gant Canal, Jumper Creek, Shady

Brook, Outlet River of Lake Panasoffkee, Leslie Heifner Canal, Orange State Canal, Tsala Apopka Outfall Canal and Rainbow

Springs.

Mouth: Gulf of Mexico, Citrus County

Drainage area: 2000 square miles

Holder Station

County: Marion Period-of-record: 1928

Location: 38 miles upstream from mouth

Drainage area: 1825 square miles

Trilby Station

County: Hernando Period-of-record: 1928

Location: 93 miles upstream from mouth

Drainage area: 570 square miles

ANCLOTE RIVER (Central Region)

Total length: 27.5 miles

Headwaters: South-central Pasco County, west of Land O Lakes

Elevation: 65 feet

Tributaries: South Branch and Hollin Creek Mouth: South Branch and Hollin Creek Gulf of Mexico, Pasco County

Drainage area: 113 square miles

Elfers Station

County: Pasco Period-of-record: 1946

Location: 16 miles upstream from mouth

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 Drainage area: 690 square miles

Zephyrhills Station

County: Hillsborough

Period-of-record: 1939

Location: 40 miles upstream from mouth

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
Drainage area: 191 square miles

New Port Richey Station:

County: Pasco Period-of-record: 1963

Location: 10.5 miles upstream from mouth

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
Drainage area: 420 square miles

Lithia Station:

County: Hillsborough

Period-of-record: 1932

Location: 16 miles upstream from mouth

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
Drainage area: 225 square miles

Wimauma Station:

County: Hillsborough

Period-of-record: 1939

Location: 15 miles upstream from mouth

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

Drainage area: 143 square miles

DeSoto City Station:

County: Highlands Period-of-record: 1946

Location: 4.9 miles upstream of mouth

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
Drainage area: 330 square miles

Myakka Head Station:

County: Manatee Period-of-record: 1966

Location: 36 miles upstream from mouth

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 Drainage area: 540 square miles

Sarasota Station:

County: Sarasota Period-of-record: 1936

Location: 36 miles upstream from mouth

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 Drainage area: 2300 square miles

Arcadia Station (Southern Region):

County: Desoto Period-of-record: 1931

Location: 36 miles upstream from mouth

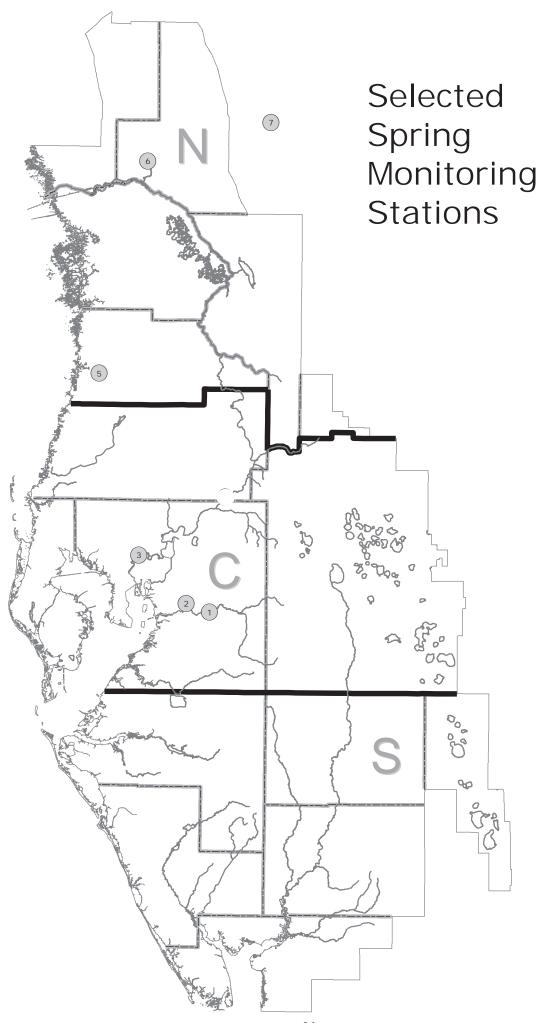
Drainage area: 1367 square miles

Bartow Station (Central Region):

County: Polk Period-of-record: 1939

Location: 105 miles upstream from mouth

Drainage area: 390 square miles





Selected Spring Monitoring Stations

<u>Map ID</u>	<u>Site Name</u>
1	Lithia Main Spring
2	Buckhorn Main Spring
3	Sulphur Springs at Sulphur Springs
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: 1st

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

SILVER SPRINGS (Northern Region)

County: Marion

Basin: Ocklawaha River

1st Magnitude:

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 1932 Period-of-record:

Water-stage recorder Gage:

WEEKI WACHEE SPRINGS (Northern Region)

County: Hernando Basin: Coastal Rivers

Magnitude: 1st

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

SULPHUR SPRINGS (Central Region)

County: Hillsborough Basin: Hillsborough River

Magnitude:

Discharge measurement location: 300 ft downstream from gage

Discharge contributes to: Hillsborough River

Public Access: Yes 1956 Period-of-record:

Gage: Water-stage recorder

BUCKHORN SPRINGS (Central Region)

County: Hillsborough Basin: Alafia River

Magnitude: 2nd

Discharge measurement location: Difference between discharge measurements

of Buckhorn Creek made $2\bar{5}$ 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

LITHIA SPRINGS: (Central Region)

County: Hillsborough Basin: Alafia River

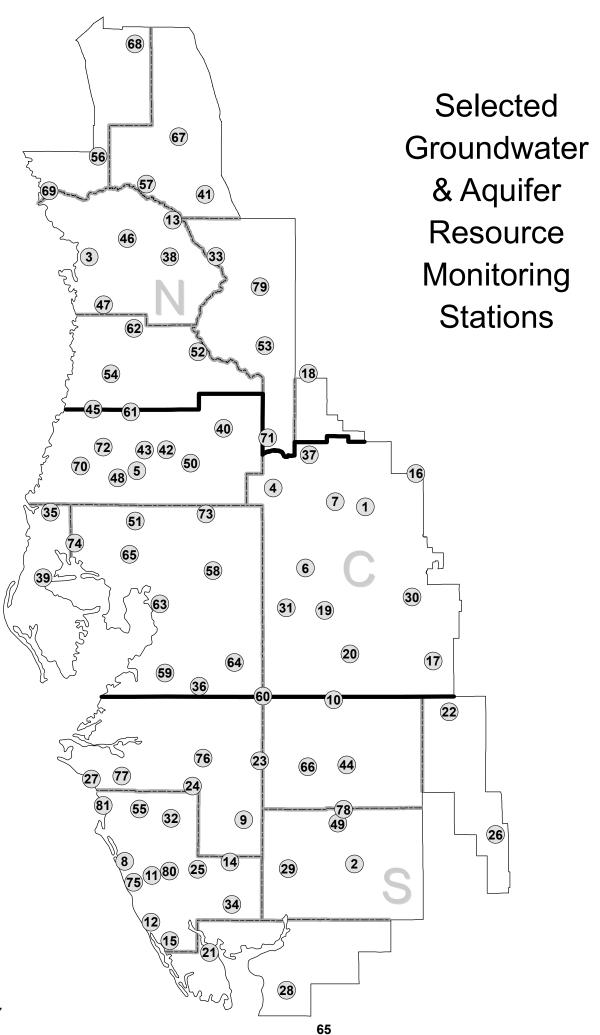
Magnitude: 2nd

Discharge measurement location: 50 feet downstream from main pool

Discharge contributes to: Alafia River

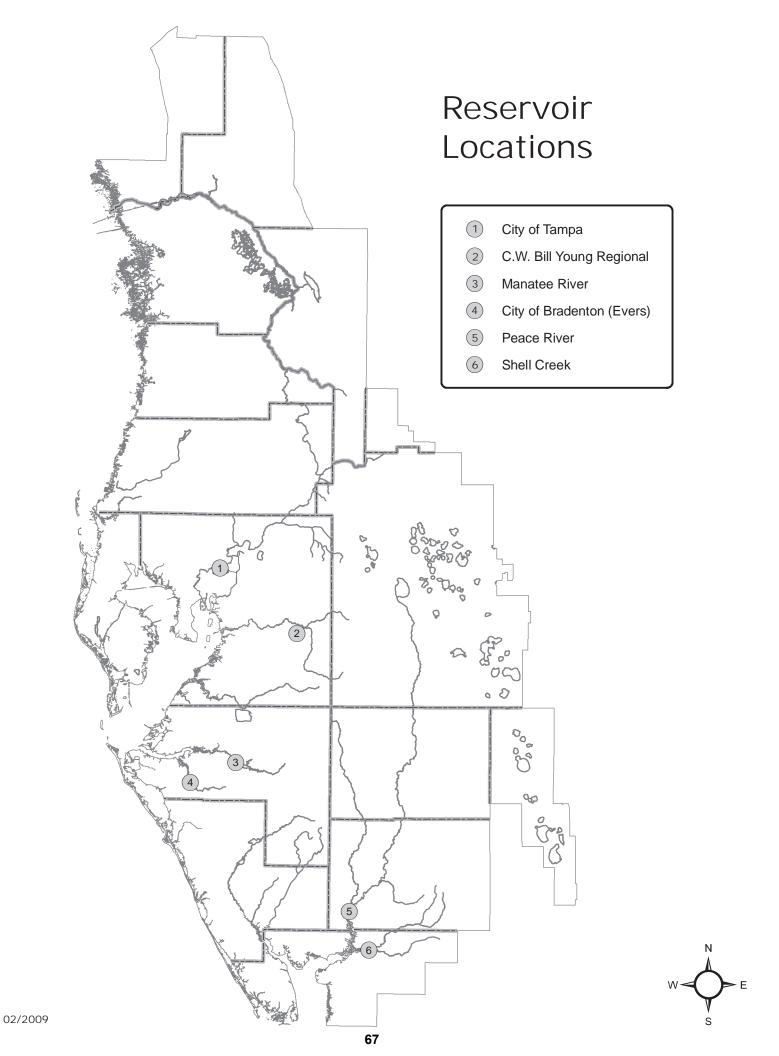
Public Access: Yes Period-of-record: 1934

Gage: Water-stage recorder



Select Groundwater & Aquifer Resource Monitoring Stations

1 Lake Alfred Deep nr Lake Alfred 2 ROMP 16 U Fldn Aq Monitor 3 ROMP 78 21-2 U Fldn Aq Chloride Monitor 4 ROMP 87 U Fldn Aq (Avpk) Monitor 5 Pasco 13 nr Drexel Fldn 5 Sanlon Ranch Fldn 5 Webster City Fldn 6 Sanlon Ranch Fldn 7 ROMP 76 U Fldn Aq (Monitor 8 ROMP 20 U Fldn Aq (Swnn) Monitor 8 ROMP 20 U Fldn Aq (Swnn) Monitor 9 Edgeville 3 Deep 10 Cargill FA-1 Fldn 11 ROMP 78 5-2 U Fldn Aq (Swnn) Monitor 12 Manasota 14 Deep 13 ROMP 16 U Fldn Aq Monitor 14 Big Slough Deep 15 Englewood 14 Deep 16 Loughman Deep 17 Coley Deep 18 Mascotte Deep (L-0062) 19 ROMP 50 U Fldn Aq (Ind) Monitor 17 Coley Deep 18 Mascotte Deep (L-0062) 19 ROMP 50 U Fldn Aq Interface Monitor 20 ROMP 51 U Fldn Aq Interface Monitor 21 ROMP 78 1-1 U Fldn Aq Monitor 22 ROMP 13 U Fldn Aq Interface Monitor 23 ROMP 13 U Fldn Aq Monitor 24 Verna Test 0-1 25 ROMP 13 U Fldn Aq Monitor 26 ROMP 18 U Fldn Aq Monitor 27 ROMP 78 1-1 U Fldn Aq Monitor 28 ROMP 18 U Fldn Aq Interface Monitor 29 ROMP 50 U Fldn Aq Interface Monitor 20 ROMP 50 U Fldn Aq Interface Monitor 21 ROMP 18 1-1 U Fldn Aq Monitor 22 ROMP 18 U Fldn Aq Monitor 23 ROMP 18 U Fldn Aq (Avpk) Monitor 24 Verna Test 0-1 25 ROMP 18 U Fldn Aq (Swnn) Monitor 26 ROMP 18 U Fldn Aq (Swnn) Monitor 27 ROMP 18 U Fldn Aq (Swnn) Monitor 38 ROMP 19 U Fldn Aq (Swnn) Monitor 40 ROMP 18 U Fldn Aq (Swnn) Monitor 51 ROMP 18 U Fldn Aq (Swnn) Monitor 52 ROMP 18 U Fldn Aq (Swnn) Monitor 53 ROMP 18 U Fldn Aq (Swnn) Monitor 54 ROMP 18 U Fldn Aq (Swnn) Monitor 55 ROMP 18 U Fldn Aq (Swnn) Monitor 56 ROMP 18 U Fldn Aq (Monitor 57 ROMP 18 T 1-1 U Fldn Aq (Swnn) Monitor 58 ROMP 18 U Fldn Aq (Monitor 59 ROMP 18 U Fldn Aq (Swnn) Monitor 50 ROMP 18 U Fldn Aq (Monitor 51 ROMP 19 U Fldn Aq (Monitor 52 ROMP 19 U Fldn Aq (Monitor 53 ROMP 19 U Fldn Aq (Swnn) Monitor 56 ROMP 18 U Fldn Aq (Swnn) Monitor 57 ROMP 18 T 1-1 U Fldn Aq (Swnn) Monitor 58 ROMP 19 U Fldn Aq (Swnn) Monitor 59 ROMP 19 U Fldn Aq (Swnn) Monitor 50 ROMP 19 U Fldn Aq (Swnn) Monitor 51 ROMP 19 U Fldn Aq (Swnn) Monitor 52 ROMP 19 U Fldn Aq (Swnn) Monitor 53 ROMP 19 U Fldn	Map ID	<u>Site Name</u>	Map ID	<u>Site Name</u>
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ROMP 9 U Fldn Aq (Swnn) Monitor	32	ROMP 22 U Fldn Aq (Swnn) Monitor	80	ROMP 19 U Fldn Aq (Swnn) Monitor
.,	33	Sumter 13 JC 59 Up Fldn Repl	81	ROMP TR SA-1 U Fldn Aq (Swnn) Monitor
35 Tarnon Road Deen	34	ROMP 9 U Fldn Aq (Swnn) Monitor		
33 Tarpon Noau Deep	35	Tarpon Road Deep		
36 ROMP 123 Htrn As/U Fldn Aq Monitor	36	ROMP 123 Htrn As/U Fldn Aq Monitor		
37 ROMP 88 U Fldn Aq Monitor	37	ROMP 88 U Fldn Aq Monitor		
38 Inverness DOT Fldn	38	Inverness DOT Fldn		
39 Pinellas 665 Fldn	39	Pinellas 665 Fldn		
40 Lykes Pasco Fldn	40	Lykes Pasco Fldn		
41 ROMP 119 U Fldn Aq Sulfate Monitor	41	ROMP 119 U Fldn Aq Sulfate Monitor		
42 SR 52 And CR 581 Deep	42	SR 52 And CR 581 Deep		
43 ROMP 93 U Fldn Aq Monitor	43	ROMP 93 U Fldn Aq Monitor		
44 ROMP 30 U Fldn Aq Monitor	44	ROMP 30 U Fldn Aq Monitor		
45 ROMP 97 U Fldn Aq Monitor	45	ROMP 97 U Fldn Aq Monitor		
46 North Lecanto Deep	46	North Lecanto Deep		
47 Chassahowitzka 1 Deep	47	•		
48 Bexley 2 Fldn	48	Bexley 2 Fldn		



DESCRIPTION OF PUBLIC SUPPLY SURFACE WATER RESERVOIRS

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

PEACE RIVER RESERVOIRS - PEACE RIVER/MANASOTA REGIONAL WATER

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

MANATEE RESERVOIR (Manasota Basin): Completed in 1967 by the damming of the Manatee River, the Manatee Reservoir is the second largest of the six surface-water public supply facilities within the District. Located in Manatee County, this in-stream facility has a storage capacity of 7.5 bg. The service area of the Manatee reservoir is the unincorporated portions of Manatee County, the City of Palmetto and Anna Maria Island, and also the Sarasota SUD#1. This reservoir provides essentially all public supply for Manatee County, with the exception of the City of Bradenton. The total size of this reservoir is 1800 acres with an average depth of 15 feet. With the reservoir full, the

facility has approximately 220 days of available water supply. When the surface-water elevation drops below 21.0 feet, water cannot be withdrawn because levels are below the facility's intakes. The permitted average daily withdrawal for this facility is 34.9 mgd, with a permitted peak monthly quantity of 41.9 mgd. The minimum producible level is 21.00 feet.

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

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

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