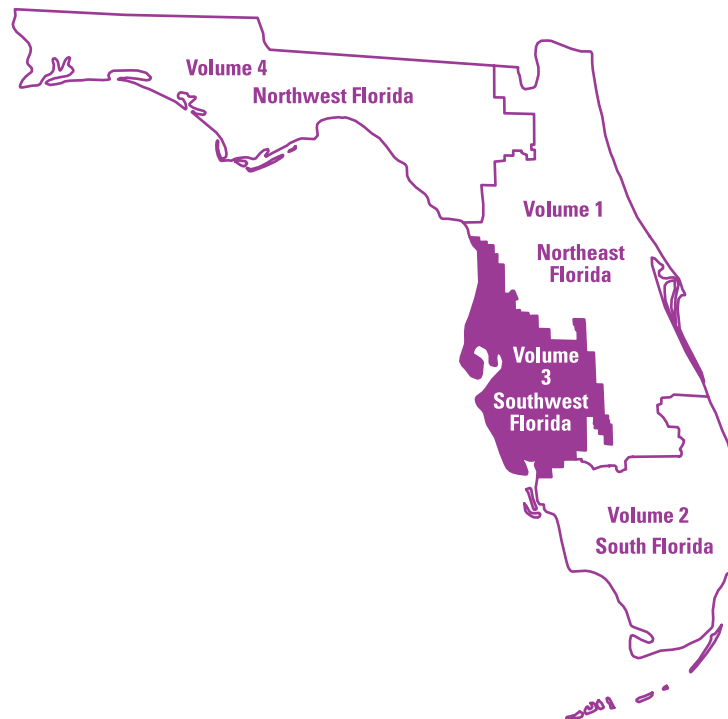


Prepared in cooperation with the State of Florida and with other agencies

# Water Resources Data Florida Water Year 2004

Volume 3A. Southwest Florida Surface Water



Water-Data Report FL-04-3A



# Calendar for Water Year 2004

2003

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October							November							December						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1		1	2	3	4	5	6
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			
							30													

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2004

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January							February							March						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7		1	2	3	4	5	6
4	5	6	7	8	9	10	8	9	10	11	12	13	14	7	8	9	10	11	12	13
11	12	13	14	15	16	17	15	16	17	18	19	20	21	14	15	16	17	18	19	20
18	19	20	21	22	23	24	22	23	24	25	26	27	28	21	22	23	24	25	26	27
25	26	27	28	29	30	31	29							28	29	30	31			

April							May							June						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3							1			1	2	3	4	5
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

July							August							September						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30		

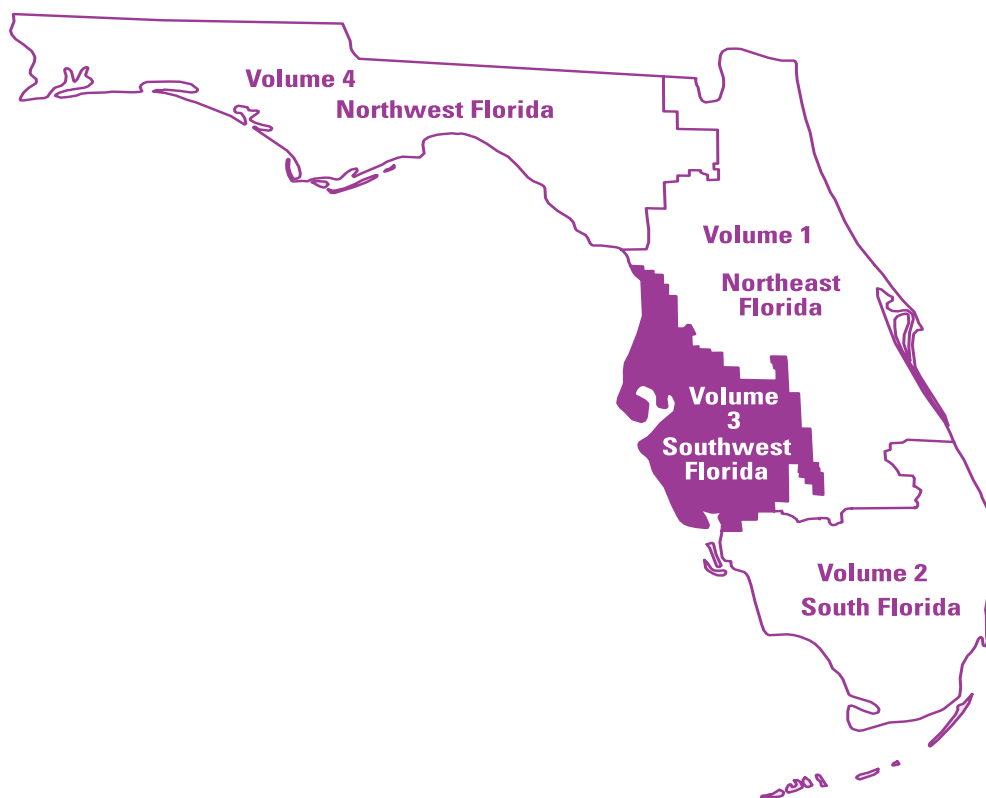
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# Water Resources Data Florida Water Year 2004

## Volume 3A. Southwest Florida Surface Water

By Richard L. Kane

Water-Data Report FL-04-3A



Prepared in cooperation with the State of Florida and with other agencies

**U.S. Department of the Interior**  
**U.S. Geological Survey**

**U.S. Department of the Interior**

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**U.S. Geological Survey**

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2005

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PREFACE

This volume of the annual hydrologic data report of Florida is one of a series of annual reports that document hydrologic data gathered for the U.S. Geological Survey's surface- and ground-water data collection networks in each state, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and quality of water provide the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Florida are contained in four volumes.

- Volume 1. Northeast Florida
- Volume 2. South Florida
- Volume 3. Southwest Florida
- Volume 4. Northwest Florida

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data. This report was prepared for publication by J. M. Todd, and the Summary of Hydrologic Conditions was prepared by D. L. Fulcher under the supervision of R. L. Kane. The following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Florida and with other agencies listed on page 1.

# REPORT DOCUMENTATION PAGE

*Form Approved*  
*OMB No. 0704-0188*

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY <i>(Leave blank)</i>	2. REPORT DATE <b>March 18, 2005</b>	3. REPORT TYPE AND DATES COVERED <b>Annual- October 1, 2003 to September 30, 2004</b>
---	---	--

4. TITLE AND SUBTITLE <b>Water Resources Data - Florida, Water year 2004 Volume 3A: Southwest Florida Surface Water</b>	5. FUNDING NUMBERS
--	--------------------

6. AUTHOR(S)  <b>R. L. Kane</b>	
---------------------------------------	--

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>U.S. Geological Survey 10500 University Center Dr., Suite 215 Tampa, FL 33612</b>	8. PERFORMING ORGANIZATION REPORT NUMBER  <b>USGS-WDR-FL-04-3A</b>
--	--

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) <b>U.S. Geological Survey 10500 University Center Dr., Suite 215 Tampa, FL 33612</b>	10. SPONSORING / MONITORING AGENCY REPORT NUMBER  <b>USGS-WDR-FL-04-3A</b>
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11. SUPPLEMENTARY NOTES <b>Prepared in cooperation with the state of Florida and other agencies.</b>
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12a. DISTRIBUTION / AVAILABILITY STATEMENT <b>No restriction on distribution. This report may be purchased from: National Technical Information Center Springfield, Va 22161</b>	12b. DISTRIBUTION CODE
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13. ABSTRACT <i>(Maximum 200 words)</i> <b>Water resources data for the 2004 water year in Florida consist of continuous or daily discharges for 405 streams, periodic discharge for 12 streams, continuous or daily stage for 159 streams, periodic stage for 19 streams, peak stage for 30 streams and peak discharge for 30 streams, continuous or daily elevations for 14 lakes, periodic elevations for 23 lakes; continuous ground-water levels for 408 wells, periodic ground-water levels for 1,188 wells, and quality-of-water data for 140 surface-water sites and 240 wells.</b>  <b>The data for Southwest Florida include records of stage, discharge, and water quality of streams; stage, contents, water quality of lakes and reservoirs, and water levels and water quality of ground-water wells. Volume 3A contains continuous or daily discharge for 104 streams, periodic discharge for 6 streams, continuous or daily stage for 36 streams, periodic stage for 14 streams, peak stage and discharge for 8 streams, continuous or daily elevations for 2 lakes, periodic elevations for 3 lakes, and quality-of-water data for 58 surface-water sites.</b>  <b>These data represent the national Water Data System records collected by the U.S. Geological Survey and cooperating local, state, and federal agencies in Florida.</b>
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14. SUBJECT TERMS <b>*Florida, *Hydrologic data, *Surface Water, *Ground Water, *Water Quality, Flow-rate, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water Temperatures, Sampling sites, Water Levels, Water analyses, Elevations, Water wells.</b>	15. NUMBER OF PAGES <b>456</b>
	16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT <b>UNCLASSIFIED</b>	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT <b>UNCLASSIFIED</b>
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**Volume 3A: Southwest Florida Surface Water**

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**SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME**

NOTE.--Data for partial-record stations and miscellaneous sites for both surface-water discharge and quality are published in separate sections of the data report. See references at the end of this list for page numbers for these sections.

[Letters after station name designate type of data collected: (d) discharge, (c) chemical, (b) biological, (m) microbiological, (k) conductance, (t) water temperature, (s) sediment, (e) elevation, gage heights, or contents, (a) annual maximum or csi site, (r) rainfall, (o) dissolved oxygen and or pH.]

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Brooker Creek at Van Dyke Road near Citrus Park (d) .....	02307200	352
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The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Florida have been discontinued. Daily streamflow or stage records were collected and published for the period, expressed in water years, shown for each station.

{Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)}

**Discontinued surface-water discharge or stage-only stations**

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of Record
<b>KISSIMMEE RIVER BASIN</b>			
Placid-June Canal Outfall near Lake Placid, FL (d)	02270805	---	2002
Sterns Creek near Lake Placid, FL (d)	02271000	44	1955-68
<b>PEACE RIVER BASIN</b>			
Peace Creek Drainage Canal near Dundee, FL (d)	02293694	58	1947-59
Peace Creek Drainage Canal near Alturas, FL (d)	02293986	160	1947-71
Williams Pond Clay Settling Area Outfall near Lakeland, FL (d)	280809081535800	0.80	1996-98
Lake Lulu Outlet at Eloise, FL (d)	02294068	23	1946-72
Tenoroc Ditch (site 19) near Lakeland, FL (d)	280651081502900	---	1997-99
Tenoroc Ditch (site 11) near Lakeland, FL (d)	280634081513200	---	1997-99
Tenoroc Ditch (site 13) near Lakeland, FL (d)	280557081512300	---	1997-99
Tenoroc Ditch above Structure (site 17A) near Lakeland, FL (e)	280531081520500	---	1997-99
Tenoroc Ditch below Structure (site 17A) near Lakeland, FL (d,e)	280531081520501	---	1997-99
Tenoroc Ditch (site 17B) near Lakeland, FL (d)	280441081520200	---	1997-99
Tenoroc Ditch (site 20) near Lakeland, FL (d)	280242081531600	---	1997-99
Banana-Hancock Canal near Highland City, FL (d)	02294405	18.8	1986-92
Peace River at State Highway 664A near Bowling Green, FL (e)	02295203	614	1998-03
Hog Branch near Wauchula, FL (d)	02295435	5.31	1969-75
Peace River at Wauchula, FL (e)	02295607	808	1970-72
Hickory Creek near Ona (d)	02295755	3.75	1982-84
Peace River at Peace River Ranch near Buchanan, FL (e)	02295798	890	2002-03
Oak Creek near Ona, FL (d)	02295850	15	1981-83
Little Charley Bowlegs Creek near Crewsville, FL (e)	02296180	21.2	1970-77
Little Charley Bowlegs Creek at SFL Rd near Sebring, FL (e)	02296191	30.6	1970-76
Little Charley Bowlegs Creek at Cott Rd near Sebring, FL (e)	02296207	38.1	1970-76
Little Charley Bowlegs Creek Abv Control near Sebring, FL (e)	02296222	41.9	1970-76
Little Charley Bowlegs Creek near Sebring, FL (d)	02296223	41.9	1952-83
Peace River near Gardner, FL (e)	02296525	---	2002-03
Peace River at Nocatee, FL (e)	02297105	1670	2002-03
West Fork Horse Creek near Myakka Head, FL (d)	02297153	13.5	1993-94
Brushy Creek near Lily, FL (d)	02297220	47.8	1993-95
Brandy Branch near Pine Level, FL (d)	02297272	15.1	1993-95
Buzzard Roost Branch near Pine Level, FL (d)	02297290	28.7	1993-95
Mossy Gully Tributary at State Hwy 70 near Arcadia, FL (e)	02297733	6.64	1973-81
Cow Slough near Arcadia, FL (e)	02297875	14.4	1973-77
<b>MYAKKA RIVER BASIN</b>			
Myakka River above Myakka City, FL (d)	02298556	86.3	2001
Myakka River Bel Sand Creek near Myakka City, FL (e)	02298618	---	1989-91, 2002-03
Myakka River at State Highway 780 near Verna, FL (d,e)	02298700	165	2002-03
Myakka River Bel Upper Myakka Lake near Sarasota, FL (d)	02298805	219	1946-51
Myakka River Bel Lower Myakka Lake near Sarasota, FL (d)	02298850	240	1946-51

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**Discontinued surface-water discharge or stage-only stations**

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of Record
<b>MYAKKA RIVER BASIN--Continued</b>			
Myakka River at Control near Laurel, FL (e)	02298880	253	1986-92
Myakka River near Laurel, FL (e)	02298900	258	1985-92
Tributary to Myakka River near Venice, FL (d)	02298928	a0.2	1993-03
Deer Prairie Slough near Myakka City, FL (d)	02299060	---	1993-03
Deer Prairie Slough at Power Line near North Port, FL (d)	02299120	a32.0	1993-03
Windom Slough near North Port Charlotte, FL (e)	270914082213700	---	1997
Big Slough Canal near North Port Charlotte, FL (d,e)	02299455	86.2	1989-01
Big Slough near Murdock, FL (d)	02299470	92.5	1963-72
<b>COASTAL AREA BETWEEN MYAKKA AND MANATEE RIVERS</b>			
Tributary to Rock Creek near Englewood, FL (d)	02299680	a2.8	1991-93
Tributary to Gottfried Creek near Englewood, FL (d)	02299681	1.77	1991-93
Forked Creek near Englewood, FL (d)	02299684	a3.4	1991-93
Cow Pen Slough near Bee Ridge, FL (d)	02299700	38	1963-66
South Creek near Vamo, FL (d)	02299737	15.4	1991-93
Catfish Creek near Osprey, FL (d)	02299741	4.77	1993
Clower Creek at Vamo, FL (d)	02299742	0.35	1991-93
Phillippi Creek near Sarasota, FL (d)	02299750	24	1980-81
Phillippi Creek near Bee Ridge, FL (d)	02299780	31.1	1994-97
<b>MANATEE RIVER BASIN</b>			
Hickory Hammock Creek near Lorraine, FL (d)	02300034	2.4	1988-01
Cooper Creek at University Parkway near Sarasota, FL (d)	023000355	9.33	1988-01
Tributary No. 1 to Cooper Creek near Lorraine, FL (d)	02300036	4.3	1994-97
Cedar Creek near Sarasota, FL (d)	02300037	0.94	1988-01
Rattlesnake Slough near Sarasota, FL (d)	02300038	3.78	1988-01
Nonsense Creek near Sarasota, FL (d)	02300039	1.14	1988-01
Williams Creek near Bradenton, FL (d)	02300050	a2.7	1995-97
Gap Creek near Bradenton, FL (d)	02300056	a7.2	1995-97
Glen Creek near Bradenton, FL (d)	02300062	a2.5	1995-97
Little Manatee River at Taylor-Gill Road near Ft. Lonesome, FL (d)	02300092	6.1	1981-84
<b>COASTAL AREA BETWEEN MYAKKA RIVER AND ALAFIA RIVERS</b>			
Cow Pen Slough near Bee Ridge, FL (d)	02299700	38	1963-66
Manatee River near Bradenton, FL (d)	02300000	87.1	1939-66
<b>LITTLE MANATEE RIVER BASIN</b>			
Alderman Creek near Ft. Lonesome, FL (d,e)	02300096	9.4	1981-82
Carlton Branch near Wimauma, FL (d)	02300130	7.86	1988-89
Dug Creek near Wimauma, FL (d)	02300430	3.66	1988-89
Cypress Creek near Wimauma, FL (d)	02300530	8.1	1981-91
<b>ALAFIA RIVER BASIN</b>			
Alafia River at Alderman's Ford Park at Pinecrest, FL (e)	02301325	261	2000-02
Little Alafia River near Hopewell, FL (d)	02301350	8.65	1966-79
Edward Medard Reservoir at Pleasant Grove, FL (e)	02301368	19.6	1970-95
Turkey Creek near Durant, FL (e)	02301400	14.2	1963-66



**WATER RESOURCES DATA FOR FLORIDA, 2004**  
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**Discontinued surface-water discharge or stage-only stations**

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of Record
<b>TAMPA BAY AND COASTAL AREAS</b>			
Buckhorn Creek near Brandon, FL (d)	02301695	7.12	1986-91
Tampa Bypass Canal Above S-159 near Tampa, FL (e)	02301764	---	1983-90
Tampa Bypass Canal at S-162 near Tampa, FL (e)	02301778	---	1983-90
Tampa Bypass Canal at S-160 at Tampa, FL (d,e)	02301802	29	1975-90
Lake Magdalene Outlet near Lutz, FL (d)	02306289	2.2	1971-82
Tributary to Henry Street Canal at Dale Mabry Highway at Tampa, FL (e)	02306651	---	1992-93
Al Lopez Park Outflow at Tampa, FL (d)	02306660	1.5	1993-95
Brushy Creek near Tampa, FL (d)	02306910	7.16	1981-87
Upper Double Branch West Fork near Oldsmar, FL (e)	280228082384200	---	1995-96
Brooker Creek near Lake Fern, FL (d)	02307323	a17	1970-94
Alligator Creek below Belcher Road at Clearwater, FL (d)	02307668	3.67	1996
Alligator Creek Tributary at Clearwater, FL (d)	02307672	0.27	1986-87
Alligator Creek at Clearwater, FL (d)	02307673	6.73	1980-87, 1996
<b>HILLSBOROUGH RIVER BASIN</b>			
Sixmile Creek at Buffalo Avenue, near Tampa, FL (e)	02301780	16	1970-71
Sixmile Creek at Tampa, FL (d)	02301800	28	1957-74
Sixmile Creek Below S-160 at Tampa, FL (e)	02301804	---	1979-82
Itchepackesassa Creek near Moriczville, FL (d.)	02302280	110	2000-02
Westside Canal at Plant City, FL (d,e)	02303174	2.0	1985-86
Pemberton Creek at Wallace Branch Road near Plant City, FL (d)	02303180	7.23	1992-94
T. Gallager Ditch near Dover, FL (d)	02303250	0.47	1981-84
Baker Creek near Thonotosassa, FL (e)	02303271	58	1971-74
Flint Creek near Thonotosassa, FL (d,e)	02303300	60	1957-59, 1971-91
Campbell Branch near Thonotosassa, FL (d)	02303313	5.9	1981-84
Trout Creek Tributary near Worthington Gardens, FL (e)	02303344	---	1974-81
Hillsborough River at STR S-155 near Thonotosassa, FL (e)	02303354	410	1982-90
Cypress Creek near Drexel, FL (d)	02303408	73.2	1977-81
Hanna Lake Outlet near Lutz, FL (d)	02303500	0.74	1946-51
Hillsborough River at Fowler Avenue near Temple Terrace, FL (d,e)	02304000	630a	1934-40, 1970-98
Hutchins Lake Outlet near Lutz, FL (d)	02305000	2.7	1946-52
Curiosity Creek near Sulphur Springs, FL (d)	02305780	1.37	1981-88
<b>COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER</b>			
Bear Creek at Mango Avenue at Gulfport, FL (e)	02308776	3.43	2000-03
Saint Joe Creek at Lealman, FL (d)	02308931	2.00	1990-91
Bee Branch at 15th Street at Palm Harbor, FL (d)	02309445	1.13	2000-03
Anclote River near Odessa, FL (d)	02309980	68.1	1984-94
Bear Creek at Plaza Drive near Hudson, FL (d,e)	02310352	29.2	1970-77
Crab Creek near Homosassa, FL (e)	02310652	---	1998
Crystal River near Crystal River, FL (d)	02310750	---	1964-77
Homosassa River at Homosassa, FL (e)	02310700	---	1997-98

**WATER RESOURCES DATA FOR FLORIDA, 2004**  
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**Discontinued surface-water discharge or stage-only stations**

Station name	Station number	Drainage area (mi <sup>2</sup> )	Period of Record
<b>COASTAL AREA BETWEEN HILLSBOROUGH RIVER AND WITHLACOOCHEE RIVER</b>			
Brooker Creek near Odessa, FL (d)	02307243	10	1946-56
Brooker Creek near Lake Fern, FL (d)	02307323	17	1971-94
Alligator Creek at Safety Harbor, FL (d)	02307697	9.0	1950-59,1961-74
Seminole Lake Outlet near Largo, FL (d)	02308889	14	1950-71
Saint Joe Creek ar Lealman, FL (d)	02308931	2.0	1990-91
Unnamed Lake Outlet at St. Petersburg, FL (e)	02309011	0.18	1972-73
Bear Creek near Hudson, FL (d)	02310350	22	1965-70

a Approximately  
---Not determined

**WATER RESOURCES DATA FOR FLORIDA, 2004**  
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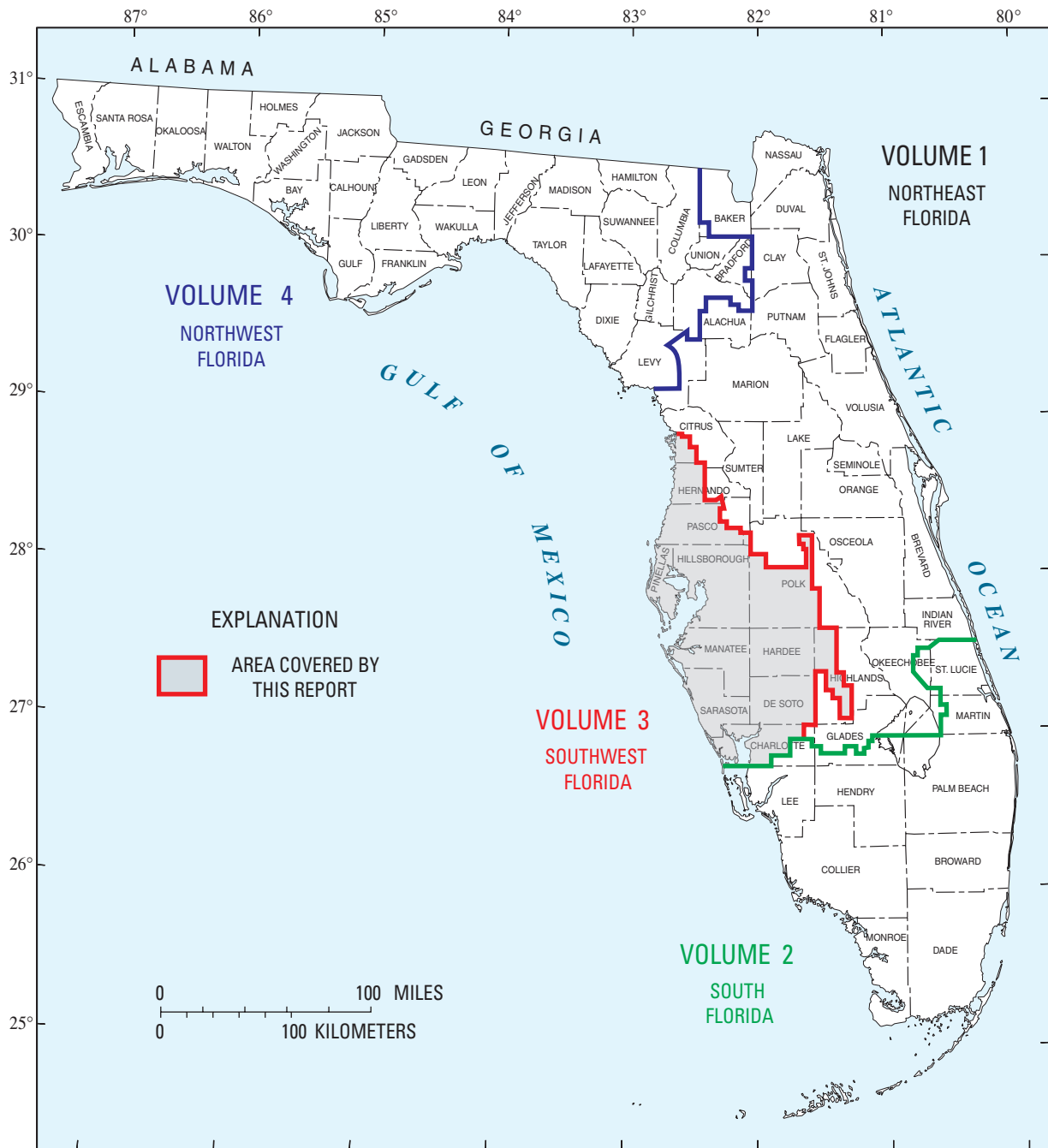


Figure 1.--Geographic area covered by this report.

## INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with local, State, and Federal agencies, obtains a large amount of data pertaining to the water resources of Florida each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Florida."

This report series includes records of stage, discharge, and water quality of streams; stage, contents, and water quality of lakes and reservoirs; water level and water quality of estuaries; and water levels and water quality of ground-water wells. Volume 3A contains records for continuous daily discharge at 104 gaging stations; periodic discharge for 6 streams; continuous daily stage for 36 stream sites; periodic stage for 14 streams; peak stage and discharge for 8 stream sites; continuous or daily elevations for 2 lakes; periodic elevations for 3 lakes; and quality-of-water for 58 surface-water sites. Locations of these sites are shown on figure 1. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Florida.

This series of annual reports for Florida began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report format was changed to present, in one volume, data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to introduction of this series and for several water years concurrent with it, water-resources data for Florida were published in U.S. Geological Survey Water-Supply Papers. Data on stream discharge and stage, and on lake or reservoir contents and stage, through September 1960, were published annually under the title "Surface-Water Supply of the United States." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above mentioned Water-Supply Papers may be consulted in the libraries of the principal cities of the United States and may be purchased from U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, CO 80225.

Publications similar to this report are published annually by the Geological Survey for all States. These official Survey reports have an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report FL-04-3A." For archiving and general distribution, the reports for 1971-74 water years also are identified as water-data reports. These water-data reports are for sale in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the address given on the back of the title page or by telephone (813) 975-8620.

## COOPERATION

The U.S. Geological Survey and agencies of the State of Florida have had cooperative agreements for the collection of water-resource records since 1930. Organizations that assisted in collecting the data in this report through cooperative agreement with the Survey are:

City of Bradenton	County of Pinellas
City of North Port	Federal Program
City of Sarasota	Florida Department of Environmental
City of Tampa	Protection
County of De Soto	Peace/Manasota Regional
County of Hillsborough	Water Supply Authority
County of Manatee	Southwest Florida Water
	Management District
	Tampa Bay Water

SUMMARY OF HYDROLOGIC CONDITIONS

During the 2004 water year, precipitation at 12 National Oceanic and Atmospheric Administration (NOAA) sites in southwest Florida (fig. 2) ranged from 43.40 inches at Venice in Sarasota County (site 20) to 67.44 inches at Bartow in Polk County (site 15). The 2004 water year total rainfall was higher at 11 long-term sites than the respective 30-year (1961-90) averages (normal rainfall). At Venice in Sarasota County, total rainfall was 5.37 inches lower than the 30-year average. Total rainfall at the 12 sites ranged from 5.37 inches below normal at Venice in Sarasota County (site 20) to 16.68 inches above normal at Bartow in Polk County (site 15). Two of the NOAA rainfall sites, Punta Gorda in Charlotte County (site 21) and Wauchula in Hardee County (site 17) had incomplete data due to hurricanes in August and September. Rainfall data from USGS and Southwest Florida Water Management District (SWFWMD) rainfall sites in the vicinity of the two NOAA sites were used to augment missing days. For Punta Gorda (site 21), rainfall data from ROMP TR 1-2 (SWFWMD) were used during the period of August 13 – 15, 2004, and rainfall data from Shell Creek near Punta Gorda (USGS) were used during the period September 3 – 6, 2004. At Wauchula (site 17), rainfall data from Hickory Creek (SWFWMD) were used for the periods of August 14-30, and September 25-27, 2004.

Monthly mean discharge for the Anclote River near Elfers (fig. 2, site 1) was above median flow for the entire water year, except for a brief period in mid December to the latter part of January when the monthly mean discharge was slightly below the median discharge.(fig.3). Monthly mean discharge increased sharply from June to the end of the water year as a result of precipitation runoff from Hurricanes Charley, Frances, and Jeanne. The 2004 water year annual mean discharge, 148 ft<sup>3</sup>/s, was 223 percent of the mean for the period of record, 66.1 ft<sup>3</sup>/s.

At Hillsborough River near Zephyrhills (fig. 2, site 2), monthly mean discharge was slightly above the median flow through late July, then increased sharply as a result of precipitation runoff from Hurricanes Charley, Frances, and Jeanne (fig. 4). The 2004 water year annual mean discharge, 363 ft<sup>3</sup>/s, was 148 percent of the mean for the period of record, 246 ft<sup>3</sup>/s.

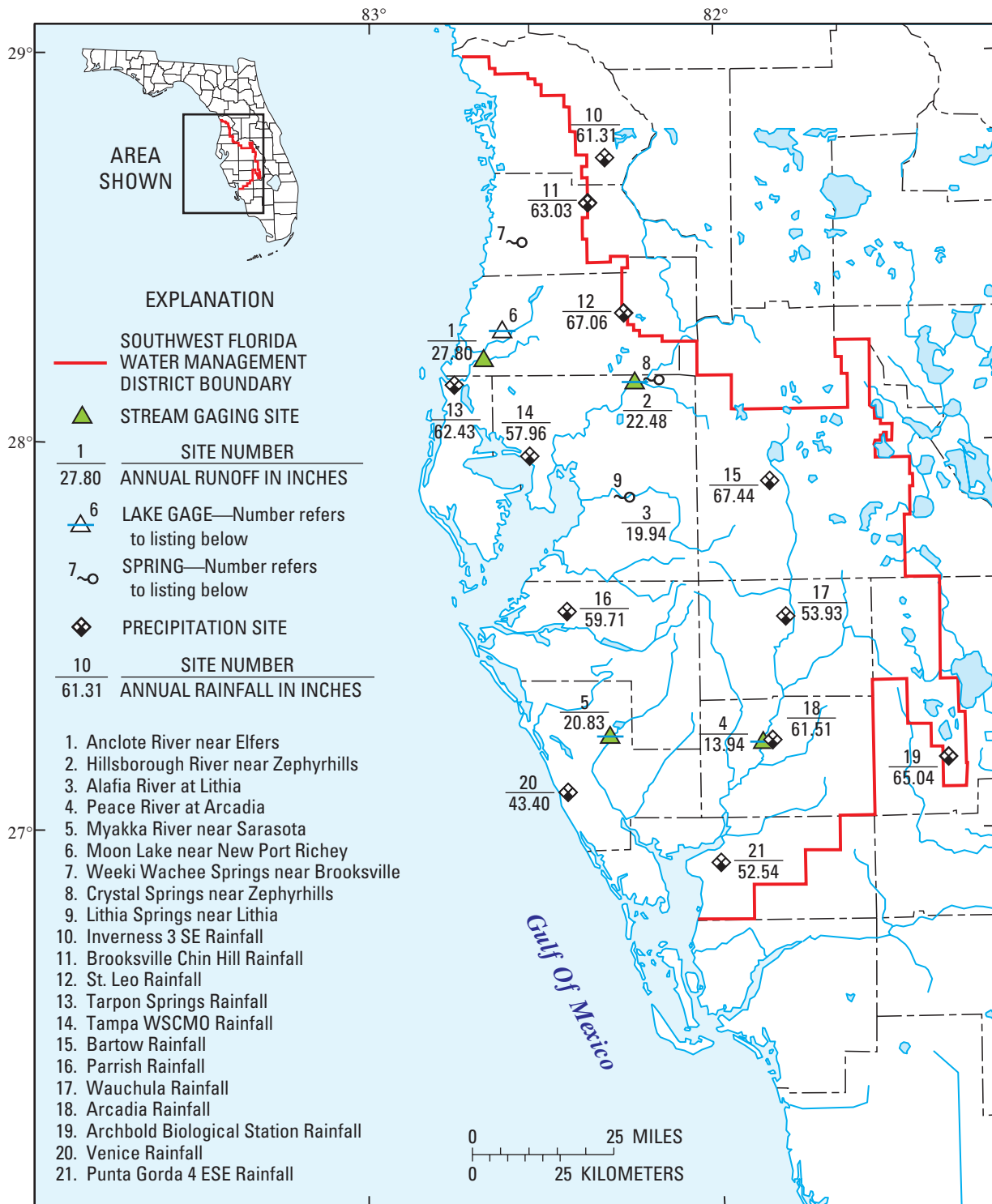
Monthly mean discharge at Alafia River at Lithia (fig. 2, site 3) was at or above the median discharge for most of the water year, then increased above the median for the remainder of the water year following Hurricanes Charley, Frances and Jeanne (fig. 5). The 2004 water year annual mean discharge, 491ft<sup>3</sup>/s, was 145 percent of the mean for the period of record, 339 ft<sup>3</sup>/s.

Monthly mean discharge at Peace River at Arcadia (fig. 2, site 4) was at or above the median discharge for the entire water year, except for brief periods in November, April, and late June to July, when the monthly mean discharge fell below the median (fig. 6). In August and September, the monthly mean discharge increased above the median for the rest of the water year, due to Hurricanes Charley, Frances and Jeanne. The 2004 water year annual mean discharge, 1400 ft<sup>3</sup>/s, was 130 percent of the mean for the period of record, 1,081 ft<sup>3</sup>/s.

At Myakka River near Sarasota (fig. 2, site 5), monthly mean discharge was at or above median discharge from October to April with the exception of early to mid-November. From mid-April to late July the monthly mean discharge was at or slightly below the median before increasing above the median from August until the end of the water year (fig. 7). The 2004 water year annual mean discharge, 350 ft<sup>3</sup>/s, was 135 percent of the mean for the period of record, 259 ft<sup>3</sup>/s.

Several large springs discharge into streams in the southwest Florida area. Weeki Wachee Springs near Brooksville (fig. 2, site 7) has been measured periodically since 1917 to define seasonal variation in flow. A daily discharge station established in October 1993 determines spring flow by the relation between artesian pressure at a nearby well and discharge measurements in spring run. Seven measurements made during the 2004 water year ranged from 172 ft<sup>3</sup>/s on June 29 to 241 ft<sup>3</sup>/s on October 8. The average of the 550 measurements made through the 2004 water year is 172 ft<sup>3</sup>/s. Crystal Springs near Zephyrhills (fig. 2, site 8) flows into the Hillsborough River upstream from the gaging station near Zephyrhills. The average of the 487 measurements made through the 2004 water year is 53.4 ft<sup>3</sup>/s. The flow of the springs is determined from the difference between measurements of the Hillsborough River above and below the springs. The flow from the springs during these measurements, which ranged from 26.7 ft<sup>3</sup>/s on August 4 to 55.2 ft<sup>3</sup>/s on October 10, was from 1 to 2 times the flow of the Hillsborough River above the springs. Flow from Lithia Springs near Lithia (fig. 2, site 9) enters the Alafia River downstream from the gaging station at Lithia and is determined by measurements of flow from a major spring, a minor spring, and diversion. Six measurements of Lithia Springs made during the 2004 water year ranged from 31.6 ft<sup>3</sup>/s on May 5 to 53.4 ft<sup>3</sup>/s on October 24. The average of 252 measurements made since 1934 is 44.1 ft<sup>3</sup>/s.

Moon Lake in Pasco County (fig. 2, site 6), is a long-term site used to record/monitor variation in lake levels in west-central Florida. Monthly mean lake stage in Moon Lake near New Port Richey (fig. 8) was above the median lake stage for the entire water year. The 2004 water year annual mean stage, 39.80 ft above sea level, was higher than the mean for the period of record, 38.22 ft above sea level.



Base from U.S. Geological Survey digital data, 1:2,000,000, 1972  
 Albers Equal-Area Conic projection  
 Standard Parallels 29°30' and 45°30', central meridian -83°00'

Figure 2.--Hydrologic conditions index map.

ANCLOTE RIVER NEAR ELFERS, FLORIDA

SITE 02310000

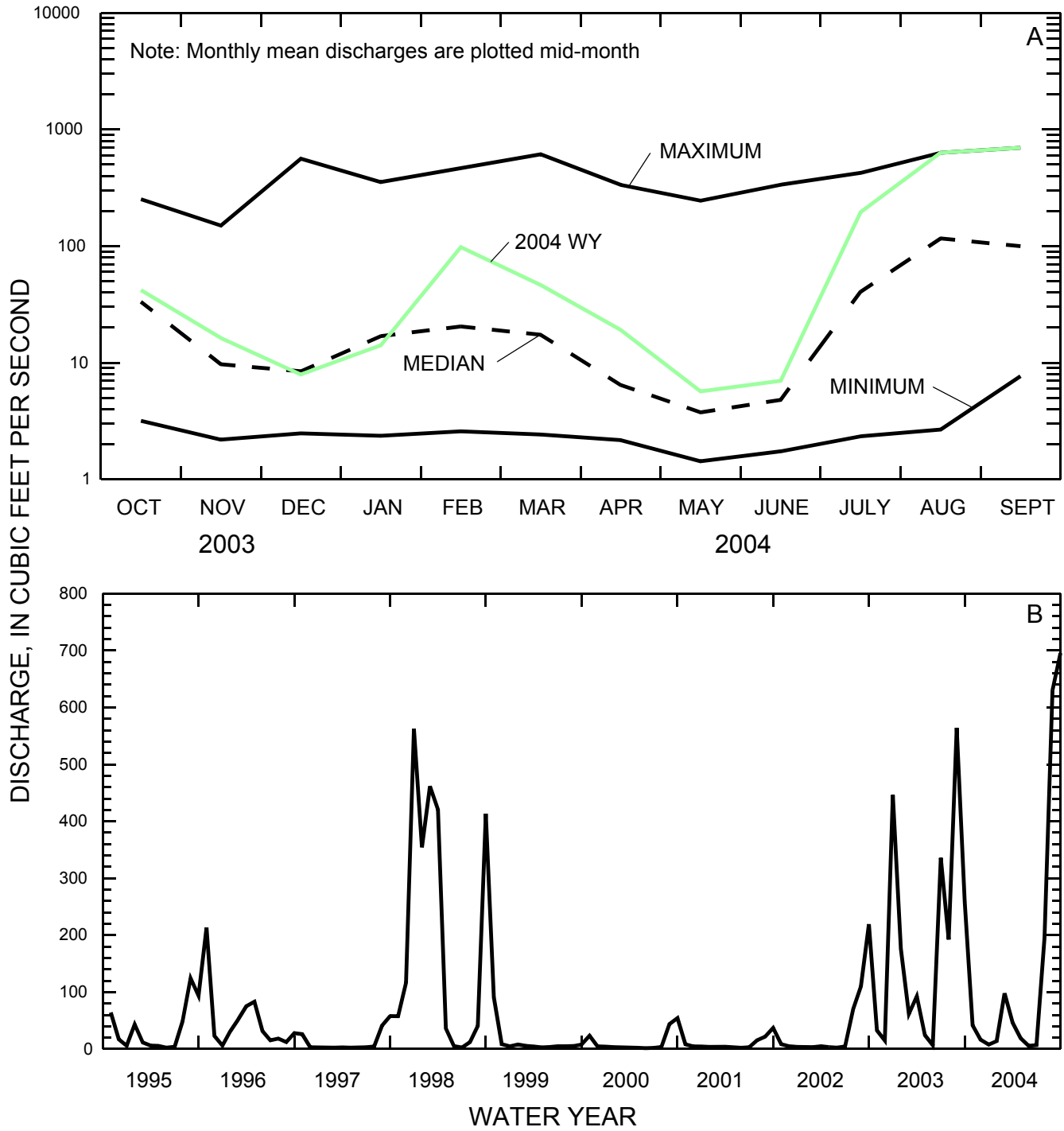


Figure 3.--Anclote River near Elfers (A) 2004 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1995-2004.

HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FLORIDA

SITE 02303000

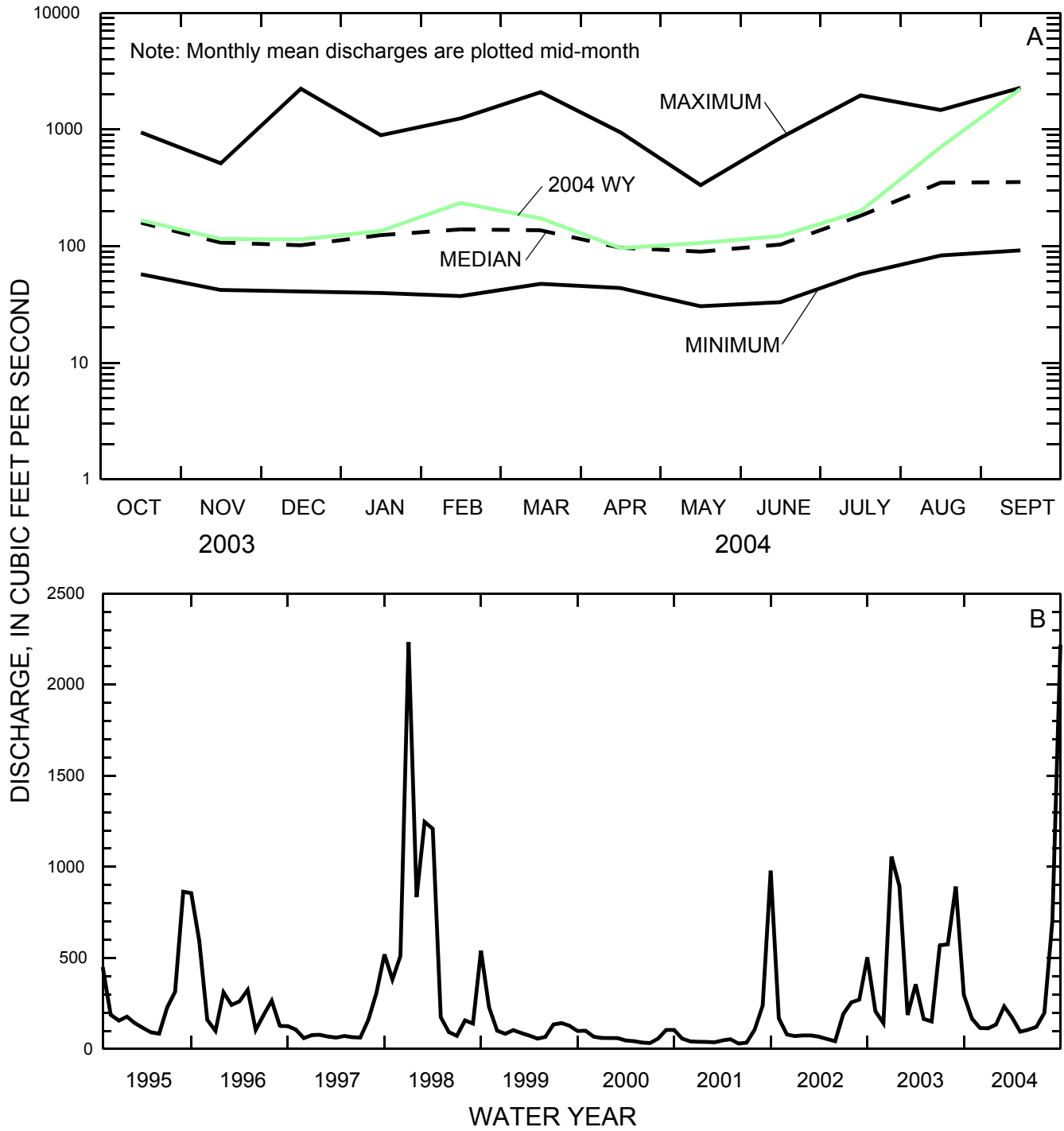


Figure 4.--Hillsborough River near Zephyrhills (A) 2004 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1995-2004.



ALAFIA RIVER AT LITHIA, FLORIDA  
SITE 02301500

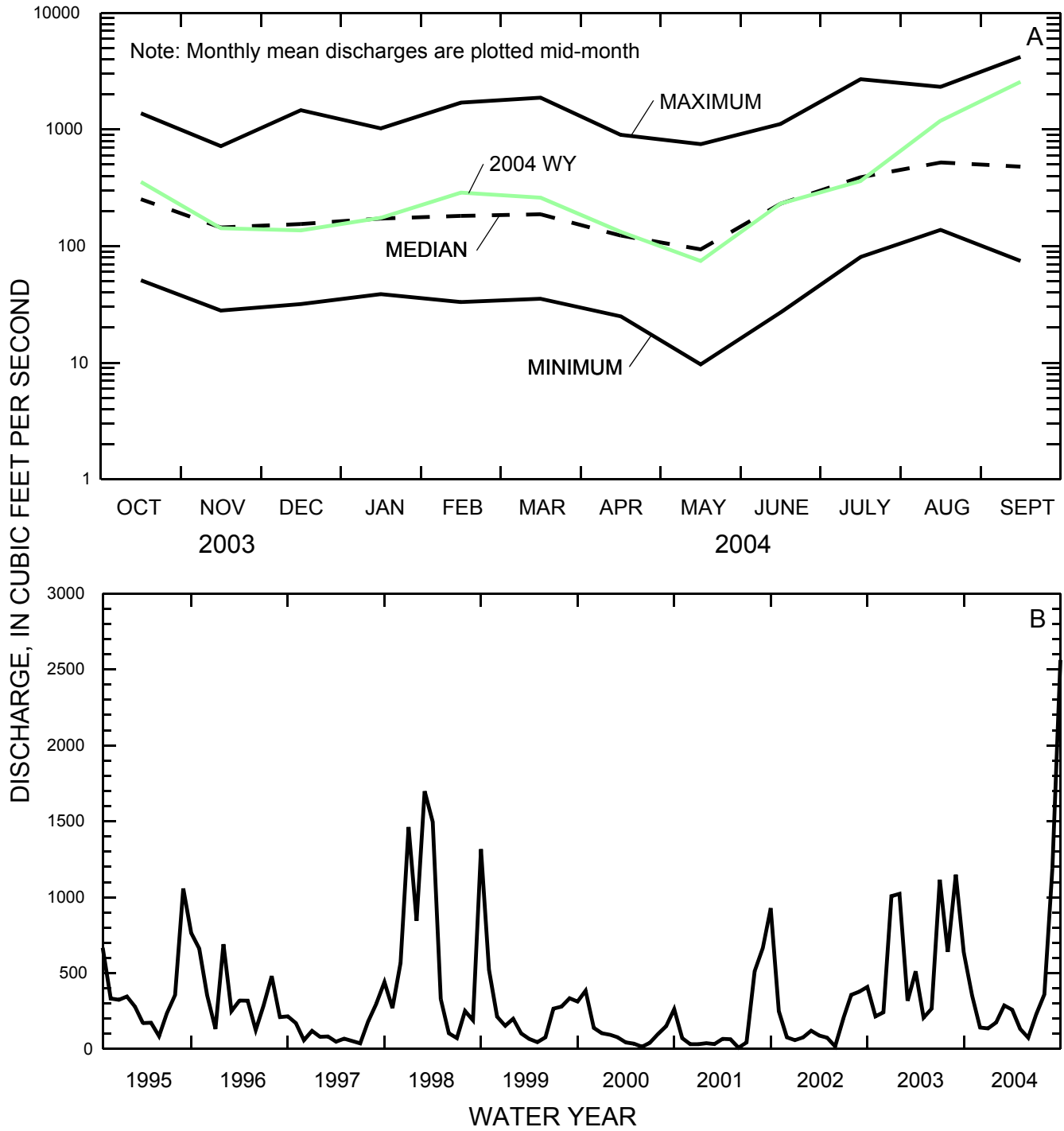


Figure 5.--Alafia River at Lithia (A) 2004 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1995-2004.

PEACE RIVER AT ARCADIA, FLORIDA

SITE 02296750

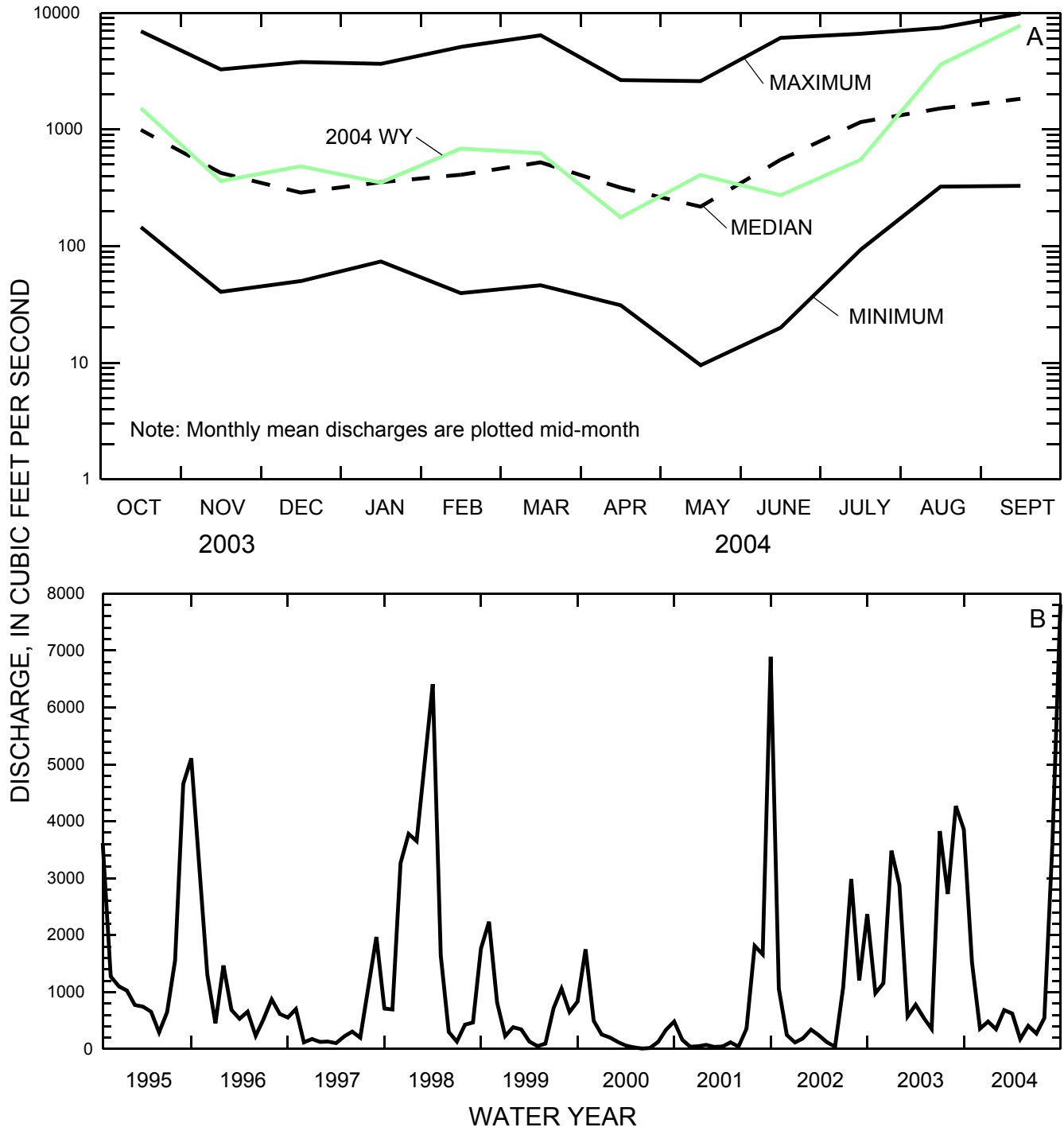


Figure 6.--Peace River at Arcadia (A) 2004 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1995-2004.

MYAKKA RIVER NEAR SARASOTA, FLORIDA

SITE 02298830

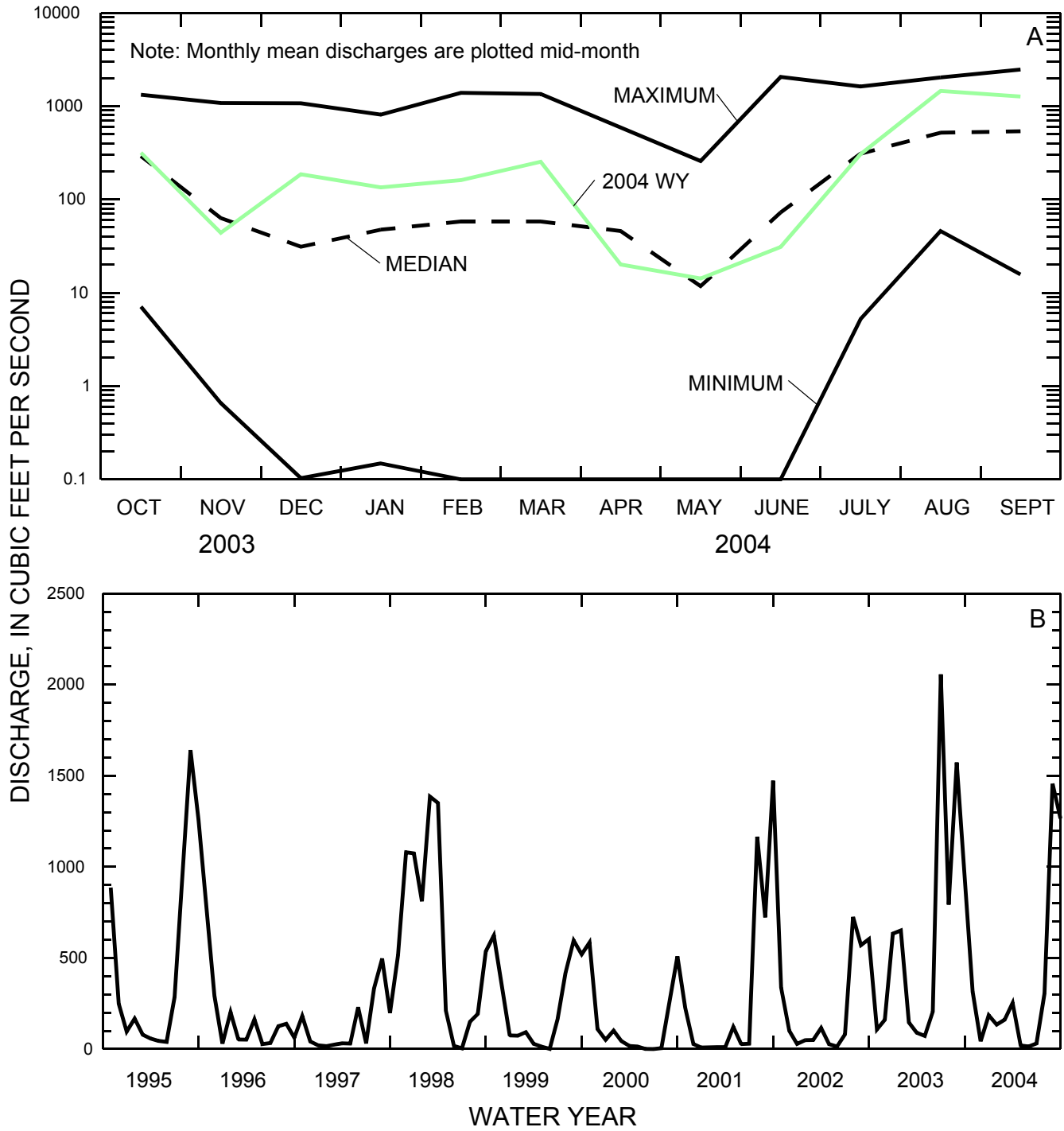


Figure 7.--Myakka River near Sarasota (A) 2004 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1995-2004.

MOON LAKE NEAR NEW PORT RICHEY, FLORIDA

SITE 02310290

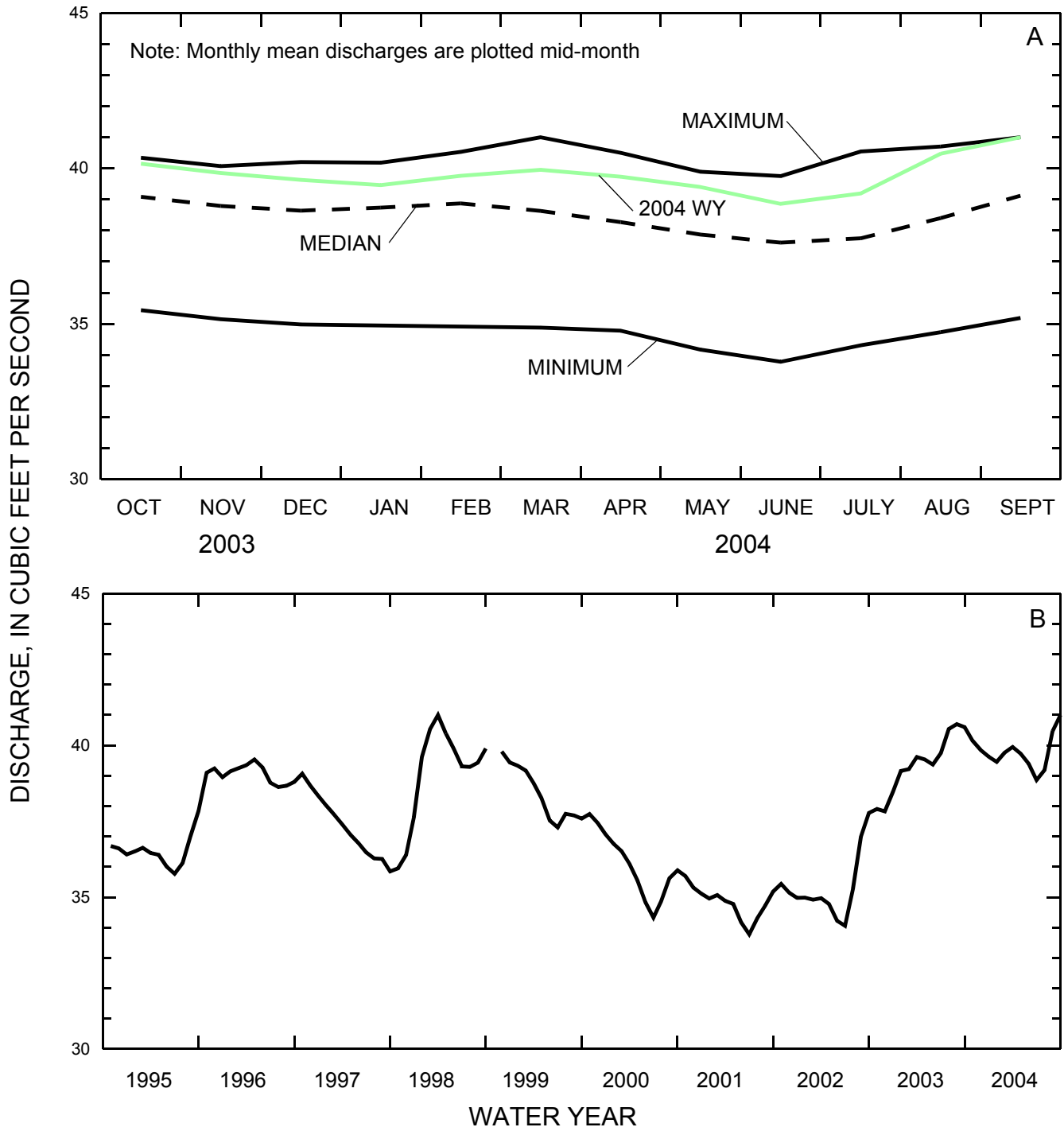


Figure 8.--Moon Lake near New Port Richey (A) 2004 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1995-2004.

## DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indentation in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number "09" plus the 6-digit (or 8-digit) downstream order number "004100." In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

## NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or

miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as "01," "02," and so forth, would be assigned as one would for wells (see fig.9). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

## SPECIAL NETWORKS AND PROGRAMS

**Hydrologic Benchmark Network** is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from <http://water.usgs.gov/hbn/>.

**National Stream-Quality Accounting Network (NASQAN)** is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of 5 stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy

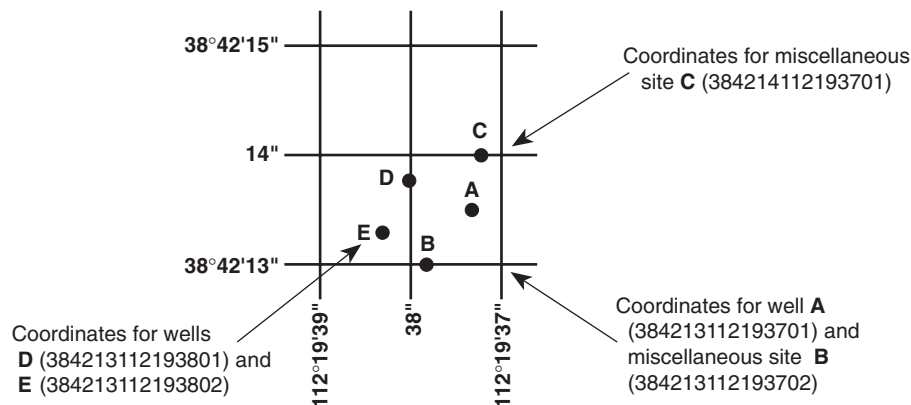


Figure 9. System for numbering wells and miscellaneous sites (latitude and longitude).

metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and remobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from <http://water.usgs.gov/nasqan/>.

**The National Atmospheric Deposition Program/ National Trends Network (NADP/NTN)** is a network of monitoring sites that provide continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from <http://bqs.usgs.gov/acidrain/>.

**The USGS National Water-Quality Assessment (NAWQA) Program** is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit

has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies. Additional information about the NAWQA Program may be accessed from <http://water.usgs.gov/nawqa/>.

**The USGS National Streamflow Information Program (NSIP)** is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from <http://water.usgs.gov/nsip/>.

## EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

### Data Collection and Computation

The base data collected at gaging stations (fig.10-17) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from <http://water.usgs.gov/pubs/twri/>. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and

rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other

reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

### Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

### Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

**LOCATION.**—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

**DRAINAGE AREA.**—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

**PERIOD OF RECORD.**—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

**REVISED RECORDS.**—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

**GAGE.**—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

**REMARKS.**—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

**COOPERATION.**—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

**EXTREMES OUTSIDE PERIOD OF RECORD.**—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

**REVISIONS.**—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://water.usgs.gov/nwis/nwis>). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

### **Peak Discharge Greater than Base Discharge**

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

### **Data Table of Daily Mean Values**

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CF5M); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

### **Statistics of Monthly Mean Data**

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS \_\_-\_\_, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

### **Summary Statistics**

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous



calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS \_\_-\_\_, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

**ANNUAL TOTAL.**—The sum of the daily mean values of discharge for the year.

**ANNUAL MEAN.**—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

**HIGHEST ANNUAL MEAN.**—The maximum annual mean discharge occurring for the designated period.

**LOWEST ANNUAL MEAN.**—The minimum annual mean discharge occurring for the designated period.

**HIGHEST DAILY MEAN.**—The maximum daily mean discharge for the year or for the designated period.

**LOWEST DAILY MEAN.**—The minimum daily mean discharge for the year or for the designated period.

**ANNUAL 7-DAY MINIMUM.**—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of

the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

**MAXIMUM PEAK FLOW.**—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

**MAXIMUM PEAK STAGE.**—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

**INSTANTANEOUS LOW FLOW.**—The minimum instantaneous discharge occurring for the water year or for the designated period.

**ANNUAL RUNOFF.**—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

**10 PERCENT EXCEEDS.**—The discharge that has been exceeded 10 percent of the time for the designated period.

**50 PERCENT EXCEEDS.**—The discharge that has been exceeded 50 percent of the time for the designated period.

**90 PERCENT EXCEEDS.**—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record

discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

### Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter "e" and noting in a table footnote, "e—Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

### Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates that about 95 percent of the daily discharges are within 5 percent of the true value; "good" within 10 percent; and "fair," within 15 percent. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft<sup>3</sup>/s; to the nearest tenths between 1.0 and 10 ft<sup>3</sup>/s; to whole numbers between 10 and 1,000 ft<sup>3</sup>/s; and to 3 significant figures above 1,000 ft<sup>3</sup>/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

### Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the District office. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the District office (see address that is shown on the back of the title page of this report).

## EXPLANATION OF PRECIPITATION RECORDS

### Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol "—" in the table.

### Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and latitude-longitude identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

## EXPLANATION OF WATER-QUALITY RECORDS

### Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

### Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <http://water.usgs.gov/pubs/twri/>.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross-section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured, and are based on 15-minute or 1-hour

## SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data is useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

### Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 10-17.

### Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

### Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in

separate tables following the table of discharge measurements at miscellaneous sites.

### On-Site Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from <http://water.usgs.gov/pubs/twri/>. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS District office (see address that is shown on the back of title page in this report).

### Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the District office.

### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge weighted average). Therefore, for

those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

### Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from <http://water.usgs.gov/pubs/twri/>. These methods are consistent with ASTM standards and generally follow ISO standards.

### Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

recent updates. Updates to the NWISWeb are made on an annual basis.

Rating classifications for continuous water-quality records

[≤less than or equal to; ± plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured physical property	Rating			
	Excellent	Good	Fair	Poor
Water temperature	≤±0.2 °C	> ±0.2 to 0.5 °C	> ±0.5 to 0.8 °C	> ±0.8 °C
Specific conductance	≤±3%	> ±3 to 10%	> ±10 to 15%	> ±15%
Dissolved oxygen	≤±0.3 mg/L	> ±0.3 to 0.5 mg/L	> ±0.5 to 0.8 mg/L	> ±0.8 mg/L
pH	≤±0.2 unit	> ±0.2 to 0.5 unit	> ±0.5 to 0.8 unit	> ±0.8 unit
Turbidity	≤±5%	> ±5 to 10%	> ±10 to 15%	> ±15%

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

#### Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based National data system, NWISWeb (<http://waterdata.usgs.gov/nwis>). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most

#### Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs).

These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a non-detection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte was either not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of "E." These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this District office are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples. These data are not presented in this report but are available from the District office.

### Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

**Field blank**—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

**Trip blank**—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

**Equipment blank**—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

**Sampler blank**—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

**Filter blank**—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

**Splitter blank**—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

**Preservation blank**—A blank solution that is treated with the sampler preservatives used for an environmental sample.

### Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

### Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

**Concurrent samples**—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

**Sequential samples**—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

**Split sample**—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

### **Spike Samples**

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

### **ACCESS TO USGS WATER DATA**

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from <http://water.usgs.gov>.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Discipline District Office (See address that is shown on the back of the title page of this report.)

### **DEFINITION OF TERMS**

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, may be accessed from [http://water.usgs.gov/ADR\\_Defs\\_2004.pdf](http://water.usgs.gov/ADR_Defs_2004.pdf). Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from <http://water.usgs.gov/glossaries.html>.

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STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

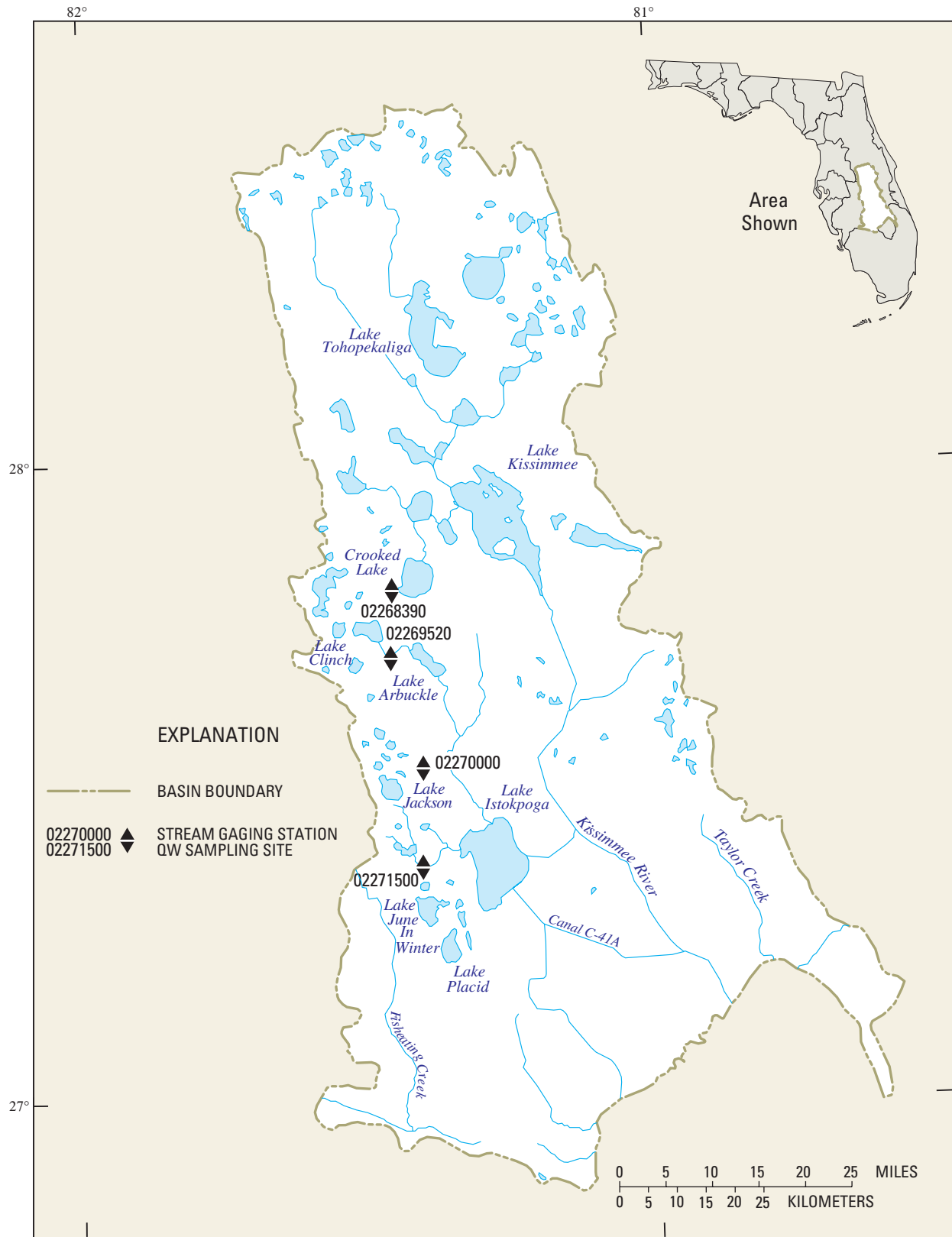


Figure 10.--Location of stream gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

02268390 TIGER CREEK NEAR BABSON PARK, FL.

LOCATION.--Lat 27° 48'40", long 81° 26'38" (1927 North American datum), in NE $\frac{1}{4}$  sec.5, T.31 S., R.29 E., Polk County, Hydrologic Unit 03090101, on left bank, on upstream side of bridge on Walk-in-Water Road, 0.4 mi upstream of Lake Weohyakapka, and 2.0 mi east of Babson Park.

DRAINAGE AREA.--52.8 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 23.52 ft above National Geodetic Vertical Datum of 1929 (Polk County bench mark).

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	26	26	31	41	43	25	20	9.2	25	34	133
2	51	25	26	31	44	41	25	19	8.8	24	35	131
3	49	25	26	31	42	39	24	20	10	24	34	126
4	47	25	25	30	40	37	24	23	22	24	31	125
5	44	27	25	30	37	36	24	22	25	24	29	142
6	42	33	25	30	35	35	23	20	23	24	27	170
7	39	43	25	29	34	34	22	19	22	27	32	183
8	37	46	25	29	33	33	22	18	21	26	47	185
9	35	46	25	28	32	32	22	17	19	24	54	174
10	34	44	25	29	31	31	21	17	19	23	57	160
11	33	42	26	29	30	30	21	17	29	22	55	146
12	32	39	25	29	29	30	29	17	33	24	51	132
13	32	37	25	28	29	29	41	16	28	24	58	120
14	31	35	33	28	29	28	39	15	25	22	94	110
15	31	33	45	28	34	28	34	15	42	21	108	101
16	30	32	48	28	35	37	31	15	53	22	121	93
17	29	31	51	27	33	53	28	15	55	22	128	87
18	28	30	51	30	32	55	26	14	52	22	126	83
19	27	30	50	37	30	52	25	14	45	27	128	79
20	26	31	47	37	29	46	24	13	38	35	128	77
21	26	30	43	35	29	41	23	13	33	35	128	81
22	25	30	40	33	28	38	23	13	30	31	130	84
23	25	29	38	32	27	36	22	12	28	27	124	88
24	24	28	37	31	28	34	21	12	26	25	123	88
25	23	28	36	30	40	33	20	12	25	23	128	85
26	23	28	35	29	51	32	20	11	25	22	129	142
27	23	28	34	32	54	30	20	11	27	24	126	e241
28	23	27	33	36	51	29	21	10	30	42	131	e253
29	28	27	33	34	47	28	20	10	29	45	137	239
30	30	26	32	32	---	27	20	9.8	27	42	140	219
31	28	---	32	34	---	26	---	9.5	---	37	136	---
TOTAL	1,006	961	1,047	957	1,034	1,103	740	469.3	859.0	839	2,809	4,077
MEAN	32.5	32.0	33.8	30.9	35.7	35.6	24.7	15.1	28.6	27.1	90.6	136
MAX	51	46	51	37	54	55	41	23	55	45	140	253
MIN	23	25	25	27	27	26	20	9.5	8.8	21	27	77
CFSM	0.61	0.61	0.64	0.58	0.68	0.67	0.47	0.29	0.54	0.51	1.72	2.57
IN.	0.71	0.68	0.74	0.67	0.73	0.78	0.52	0.33	0.61	0.59	1.98	2.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

STATISTIC	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	46.0	35.0	37.6	38.6	35.5	33.7	26.7	18.4	32.0	41.3	54.6	60.5	
MAX (WY)	84.3	47.0	73.7	62.6	81.9	84.5	48.8	29.3	54.3	65.4	90.6	136	
MIN (WY)	20.4	15.8	15.5	16.0	15.0	15.7	14.7	8.05	12.9	20.6	23.5	27.1	
	(1994)	(2001)	(2001)	(2001)	(2001)	(2001)	(2002)	(2001)	(2001)	(2001)	(1993)	(1997)	

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1992 - 2004

ANNUAL TOTAL	15,159	15,901.3	
ANNUAL MEAN	41.5	43.4	38.3
HIGHEST ANNUAL MEAN			49.7
LOWEST ANNUAL MEAN			22.9
HIGHEST DAILY MEAN	131	Aug 23	253
LOWEST DAILY MEAN	17	May 17	5.3
ANNUAL SEVEN-DAY MINIMUM	18	May 15	5.9
MAXIMUM PEAK FLOW			262
MAXIMUM PEAK STAGE		**47.60	**47.60
ANNUAL RUNOFF (CFSM)	0.787	0.823	0.726
ANNUAL RUNOFF (INCHES)	10.68	11.20	9.87
10 PERCENT EXCEEDS	63	103	67
50 PERCENT EXCEEDS	35	30	32
90 PERCENT EXCEEDS	24	20	16

e Estimated

\*\* From high water mark

02268390 TIGER CREEK NEAR BABSON PARK, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)
NOV 17...	0836	43.89	31	--	7.2	176	--	.40	--	.02	--	1.40	--
JAN 08...	0808	43.79	29	8.5	7.4	190	15.0	.40	--	.02	--	1.60	--
APR 05...	0931	43.50	24	8.1	7.2	189	17.5	.30	--	.02	--	1.80	--
JUN 02...	0841	42.94	8.8	6.9	6.9	169	24.8	<.20	--	.03	--	1.20	--
AUG 09...	0940	44.37	54	5.0	6.2	170	25.2	--	<.04	--	.21	--	<.008
AUG 31...	0950	46.11	137	.4	5.9	116	27.6	--	.14	--	<.06	--	.013

Date	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 17...	<.01	--	<.010	.03	--
JAN 08...	<.01	--	<.010	<.02	--
APR 05...	<.01	--	<.010	<.02	--
JUN 02...	<.01	--	<.010	.02	--
AUG 09...	--	<.02	--	.04	1.58
AUG 31...	--	.09	--	.22	2.56

Remark codes used in this table:  
< -- Less than

02269520 LIVINGSTON CREEK NEAR FROSTPROOF, FL.

LOCATION.--Lat 27° 42'30", long 81° 26'48" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.8, T32 S., R.29 E., Polk County, Hydrologic Unit 03090101, on downstream side of bridge on School Bus Road, 3.6 mi upstream from Lake Arbuckle, and 5.3 mi east of Frostproof.

DRAINAGE AREA.--120 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 22.54 ft above National Geodetic Vertical Datum of 1929 (Polk County bench mark).

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	264	91	50	51	61	46	e27	17	8.5	19	27	181
2	249	89	49	51	57	45	e26	16	8.0	18	28	203
3	234	88	47	50	53	44	e25	16	8.3	19	26	201
4	223	87	46	49	51	43	e24	17	9.3	19	27	202
5	215	88	46	49	49	42	24	16	9.4	23	28	259
6	207	94	46	48	48	41	23	16	11	22	33	430
7	200	92	44	47	48	40	23	15	12	21	32	425
8	193	89	43	45	47	40	22	15	11	21	37	375
9	186	88	43	45	44	38	22	15	12	20	32	338
10	181	86	43	46	44	37	22	14	16	19	30	313
11	177	83	46	45	43	35	22	14	22	19	29	301
12	175	81	44	43	42	34	27	14	25	21	29	291
13	169	78	43	43	41	34	29	13	24	20	38	281
14	164	76	63	43	41	33	26	13	25	20	98	273
15	158	73	80	42	49	32	24	13	29	19	116	267
16	151	71	66	42	47	42	23	12	29	19	102	260
17	144	69	86	41	44	55	22	12	26	19	94	255
18	140	68	80	47	43	46	22	12	25	20	132	249
19	135	67	72	53	41	43	21	12	24	25	135	243
20	130	68	68	51	40	40	21	12	23	28	121	240
21	127	65	64	48	40	39	21	11	22	25	112	257
22	123	63	62	47	40	38	20	11	22	23	118	257
23	120	61	60	46	40	35	20	11	21	22	134	249
24	114	59	59	45	39	33	19	11	21	21	183	242
25	110	59	58	43	51	32	19	10	20	21	180	236
26	106	61	57	43	58	32	19	10	21	21	206	422
27	104	58	55	44	53	31	18	9.8	21	24	194	536
28	101	56	54	44	50	30	18	9.6	20	31	221	490
29	102	55	54	42	47	29	17	9.4	20	42	207	446
30	99	51	53	42	---	28	17	9.1	20	30	194	414
31	94	---	52	45	---	28	---	8.9	---	27	184	---
TOTAL	4,895	2,214	1,733	1,420	1,351	1,165	663	394.8	565.5	698	3,127	9,136
MEAN	158	73.8	55.9	45.8	46.6	37.6	22.1	12.7	18.9	22.5	101	305
MAX	264	94	86	53	61	55	29	17	29	42	221	536
MIN	94	51	43	41	39	28	17	8.9	8.0	18	26	181
AC-FT	9,710	4,390	3,440	2,820	2,680	2,310	1,320	783	1,120	1,380	6,200	18,120
CFSM	1.32	0.61	0.47	0.38	0.39	0.31	0.18	0.11	0.16	0.19	0.84	2.54
IN.	1.52	0.69	0.54	0.44	0.42	0.36	0.21	0.12	0.18	0.22	0.97	2.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	92.7	62.7	56.5	55.1	52.1	50.9	36.0	21.4	31.4	49.5	80.4	122	
MAX	199	120	151	135	211	248	146	69.4	79.4	101	239	305	
(WY)	(1996)	(1996)	(1995)	(1998)	(1998)	(1998)	(1998)	(1998)	(2003)	(1995)	(1995)	(2004)	
MIN	19.6	13.0	11.6	10.0	10.2	11.1	10.4	6.57	5.63	21.3	18.4	26.3	
(WY)	(1998)	(2001)	(2001)	(2001)	(2001)	(2001)	(1999)	(2001)	(2000)	(2000)	(1993)	(1993)	

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1992 - 2004

ANNUAL TOTAL	35,924	27,362.3	
ANNUAL MEAN	98.4	74.8	59.3
HIGHEST ANNUAL MEAN			125
LOWEST ANNUAL MEAN			27.6
HIGHEST DAILY MEAN	391	Sep 5	700
LOWEST DAILY MEAN	26	May 17	4.5
ANNUAL SEVEN-DAY MINIMUM	27	May 13	4.8
MAXIMUM PEAK FLOW			700
MAXIMUM PEAK STAGE			48.94
ANNUAL RUNOFF (AC-FT)	71,260	54,270	42,930
ANNUAL RUNOFF (CFSM)	0.820	0.623	0.494
ANNUAL RUNOFF (INCHES)	11.14	8.48	6.71
10 PERCENT EXCEEDS	222	202	135
50 PERCENT EXCEEDS	68	43	37
90 PERCENT EXCEEDS	38	16	12

e Estimated

02269520 LIVINGSTON CREEK NEAR FROSTPROOF, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite + nitrate water, unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)
NOV 17...	0931	42.49	70	--	6.8	173	--	1.6	--	.04	--	.300	--
JAN 08...	0852	41.99	45	6.9	6.9	199	14.9	1.7	--	.25	--	.530	--
APR 05...	1052	41.34	24	7.1	7.0	221	17.7	1.5	--	.23	--	.850	--
JUN 02...	0932	40.63	8.2	5.8	6.7	245	26.5	.80	--	.10	--	.820	--
AUG 09...	1020	41.54	33	5.2	6.9	250	26.7	--	<.04	--	.48	--	<.008
AUG 31...	1047	44.54	184	1.7	6.1	152	28.0	--	.07	--	E.04	--	E.007

Date	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfiltered by analysis, mg/L (62855)
NOV 17...	<.01	--	.020	.08	--
JAN 08...	<.01	--	.020	.06	--
APR 05...	.04	--	<.010	.07	--
JUN 02...	<.01	--	<.010	.05	--
AUG 09...	--	.02	--	.06	1.08
AUG 31...	--	.15	--	.20	1.46

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

02270000 CARTER CREEK NEAR SEBRING, FL.

LOCATION.--Lat 27° 31'55", long 81° 23'16" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.11, T.34 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on right bank, 75 ft downstream from culverts on Lake Arbuckle Road, 2.3 mi upstream from mouth, 4.4 mi downstream from Bonnett Lake, and 7.1 mi northeast of Sebring.

DRAINAGE AREA.--38.8 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1954 to September 1966; March 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 56.75 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Prior to Nov. 16, 1954, staff gage and Nov. 16, 1954, to Sept. 30, 1963, water-stage recorder, at present site and datum. Mar. 16, 1956, to Sept. 30, 1958, staff gage and May 23, 1963, to September 30, 1966, water-stage recorder at site 1,100 ft upstream at same datum.

REMARKS.--Records good. Regulation by Bonnett Lake control above station.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	17	15	20	28	18	8.4	7.3	3.0	4.5	29	22
2	57	16	15	20	25	17	7.9	7.0	3.2	4.4	38	22
3	48	17	14	20	22	16	8.0	7.3	3.6	4.3	33	20
4	43	17	14	19	20	16	7.8	7.8	4.9	5.2	32	44
5	40	20	14	19	19	15	7.6	7.3	4.7	4.6	33	91
6	37	27	14	18	17	15	7.4	6.9	4.6	7.1	31	108
7	34	25	14	18	17	14	7.3	6.6	4.7	11	39	73
8	32	23	14	17	16	14	7.2	6.4	4.8	8.6	45	59
9	31	22	14	17	16	13	7.1	6.2	4.8	7.3	38	54
10	30	24	16	17	15	13	7.0	6.1	5.7	6.8	35	69
11	29	21	18	16	15	12	7.2	6.2	6.2	6.7	29	59
12	28	20	17	16	14	12	12	6.0	6.4	7.2	24	51
13	27	19	17	15	15	12	13	6.0	6.2	6.8	33	45
14	26	17	31	15	15	11	12	5.8	6.3	6.2	86	42
15	26	18	38	15	20	11	11	5.6	8.1	5.7	63	39
16	24	18	35	14	19	13	9.8	5.7	7.8	5.7	42	37
17	23	17	60	14	18	13	9.3	5.4	7.0	5.5	29	35
18	23	17	49	18	17	13	8.9	5.2	6.5	6.6	28	33
19	23	17	40	23	16	12	8.6	5.0	6.2	10	45	32
20	23	18	34	23	15	11	8.3	5.1	6.2	12	28	33
21	22	17	31	21	15	11	8.0	5.0	6.4	11	21	36
22	21	17	29	19	14	11	7.8	5.3	5.8	9.5	19	36
23	20	17	27	18	14	11	8.0	4.8	5.5	9.0	22	33
24	20	16	26	17	14	10	7.6	4.1	5.2	9.1	26	31
25	19	16	25	16	27	9.9	7.4	4.2	4.9	8.5	40	29
26	19	16	24	16	29	9.6	7.2	4.2	4.9	8.0	32	161
27	18	17	23	16	24	9.4	7.3	4.1	4.9	9.2	42	130
28	19	16	23	15	21	9.2	7.2	3.9	4.8	17	53	98
29	19	16	22	14	19	9.0	7.1	3.6	4.7	31	30	81
30	19	15	21	14	---	8.8	7.2	3.2	4.8	26	24	71
31	18	---	21	17	---	8.6	---	3.1	---	21	20	---
TOTAL	890	553	755	537	536	378.5	250.6	170.4	162.8	295.5	1,089	1,674
MEAN	28.7	18.4	24.4	17.3	18.5	12.2	8.35	5.50	5.43	9.53	35.1	55.8
MAX	72	27	60	23	29	18	13	7.8	8.1	31	86	161
MIN	18	15	14	14	14	8.6	7.0	3.1	3.0	4.3	19	20
AC-FT	1,770	1,100	1,500	1,070	1,060	751	497	338	323	586	2,160	3,320
CFSM	0.74	0.48	0.63	0.45	0.48	0.31	0.22	0.14	0.14	0.25	0.91	1.44
IN.	0.85	0.53	0.72	0.51	0.51	0.36	0.24	0.16	0.16	0.28	1.04	1.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2004, BY WATER YEAR (WY)

MEAN	35.8	24.4	20.5	20.6	21.1	21.1	17.5	12.8	21.1	29.2	34.5	43.0
MAX	130	78.7	54.9	56.0	70.7	84.0	83.5	36.6	54.2	103	102	146
(WY)	(1960)	(1960)	(1998)	(1958)	(1998)	(1998)	(1998)	(1957)	(1959)	(1959)	(1960)	(1960)
MIN	9.75	5.80	5.75	5.35	3.45	3.23	4.25	3.35	5.43	9.53	9.46	12.5
(WY)	(1962)	(2001)	(2001)	(2001)	(2001)	(2001)	(1994)	(2000)	(2004)	(2004)	(1993)	(1996)



## 02270000 CARTER CREEK NEAR SEBRING, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1955 - 2004	
ANNUAL TOTAL	8,280.9		7,291.8			
ANNUAL MEAN	22.7		19.9		25.3	
HIGHEST ANNUAL MEAN					65.6	1960
LOWEST ANNUAL MEAN					11.1	1997
HIGHEST DAILY MEAN	109	Sep 30	161	Sep 26	352	Sep 11, 1960
LOWEST DAILY MEAN	5.5	May 19	3.0	Jun 1	1.6	Mar 28, 2001
ANNUAL SEVEN-DAY MINIMUM	6.0	May 13	3.4	May 28	1.8	Mar 23, 2001
MAXIMUM PEAK FLOW			222	Sep 26	552	Sep 11, 1960
MAXIMUM PEAK STAGE			10.15	Sep 26	11.05	Sep 11, 1960
ANNUAL RUNOFF (AC-FT)	16,430		14,460		18,320	
ANNUAL RUNOFF (CFSM)	0.585		0.513		0.652	
ANNUAL RUNOFF (INCHES)	7.94		6.99		8.85	
10 PERCENT EXCEEDS	42		38		51	
50 PERCENT EXCEEDS	18		16		18	
90 PERCENT EXCEEDS	9.1		5.5		6.7	

02270000 CARTER CREEK NEAR SEBRING, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1995 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)
NOV 17...	1103	5.67	17	8.1	6.6	137	20.4	.90	--	.02	--	.380	--
JAN 08...	1019	5.72	17	9.0	7.1	160	15.3	.70	--	.03	--	.670	--
APR 05...	1214	5.16	7.7	8.2	7.1	175	18.0	.70	--	.03	--	.280	--
JUN 02...	1057	4.71	3.1	7.2	6.9	170	25.6	.40	--	.02	--	.240	--
AUG 09...	1140	6.59	35	5.1	6.1	175	26.1	--	.19	--	.11	--	<.008
AUG 31...	1245	6.64	19	4.3	6.3	142	27.8	--	E.04	--	.09	--	<.008

Date	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfiltered by analysis, mg/L (62855)
NOV 17...	<.01	--	<.010	.04	--
JAN 08...	<.01	--	<.010	<.02	--
APR 05...	<.01	--	<.010	.03	--
JUN 02...	<.01	--	.010	.03	--
AUG 09...	--	.02	--	.06	1.10
AUG 31...	--	.02	--	.06	.98

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

## 02271500 JOSEPHINE CREEK NEAR DE SOTO CITY, FL.

LOCATION.--Lat 27° 22'26", long 81° 23'37" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.2, T.36 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on left bank, 320 ft downstream from bridge on State Highway 17, 1.0 mi downstream from Jack Creek, 4.0 mi south of De Soto City, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--109 mi<sup>2</sup>, includes area drained by Lake Sebring.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1946 to September 1975; October 1978 to current year.

REVISED RECORDS.--WSP 1384: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 52.99 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to May 21, 1952, at site 0.5 mi upstream at datum 0.89 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulation by gate manipulations at structure G-90 located on Lake June-in-Winter outflow canal. Discharge affected by pumpage. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	389	e24	27	45	51	98	16	9.7	6.3	9.6	29	453
2	377	e25	32	44	52	94	15	9.6	6.1	8.5	29	450
3	356	e26	30	43	50	90	14	10	6.4	8.2	29	472
4	334	e27	29	42	47	86	13	12	7.4	8.5	34	518
5	314	e30	29	41	47	82	13	11	7.3	8.5	56	625
6	291	e32	29	40	61	79	12	10	6.9	8.2	80	704
7	269	e31	27	37	e32	75	12	9.7	6.8	8.4	80	725
8	249	e31	24	31	e29	71	12	9.3	6.8	8.4	81	718
9	235	e30	23	30	e28	53	12	9.0	7.2	8.0	87	689
10	223	e26	26	31	e28	40	11	8.8	8.3	7.6	78	651
11	213	e25	31	30	e27	35	11	8.6	11	8.4	72	589
12	206	e26	29	28	e26	32	14	8.4	16	12	248	401
13	193	e24	28	28	e25	31	16	8.2	16	11	391	320
14	176	26	36	28	e27	30	17	7.9	17	11	461	216
15	126	25	47	28	e27	29	15	7.7	35	9.4	517	162
16	70	25	47	28	e25	36	13	7.6	36	8.8	514	135
17	60	25	118	28	e25	51	12	7.6	32	8.8	298	117
18	56	24	107	35	e24	44	12	7.4	29	9.7	154	105
19	51	26	97	47	31	39	12	7.2	27	16	159	94
20	e44	28	87	62	30	34	11	7.2	24	20	167	90
21	e42	26	77	71	30	32	11	7.1	23	21	157	97
22	e38	25	71	69	30	29	11	7.1	21	20	149	103
23	e37	25	67	67	28	25	11	7.0	18	18	150	98
24	e36	24	65	64	28	21	10	6.9	16	16	136	92
25	e33	25	62	61	59	20	10	6.9	14	14	153	92
26	e32	31	58	61	132	19	9.9	6.8	13	13	217	525
27	e32	30	54	60	133	19	10	6.8	12	13	246	794
28	e30	29	51	41	117	18	10	6.6	11	17	398	869
29	e29	28	50	35	105	17	9.8	6.6	10	21	474	845
30	e25	25	48	34	---	16	9.7	6.4	10	23	483	789
31	e24	---	47	36	---	16	---	6.3	---	22	467	---
TOTAL	4,590	804	1,553	1,325	1,354	1,361	365.4	251.4	460.5	397.0	6,594	12,538
MEAN	148	26.8	50.1	42.7	46.7	43.9	12.2	8.11	15.3	12.8	213	418
MAX	389	32	118	71	133	98	17	12	36	23	517	869
MIN	24	24	23	28	24	16	9.7	6.3	6.1	7.6	29	90
AC-FT	9,100	1,590	3,080	2,630	2,690	2,700	725	499	913	787	13,080	24,870
CFSM	1.36	0.25	0.46	0.39	0.43	0.40	0.11	0.07	0.14	0.12	1.95	3.83
IN.	1.57	0.27	0.53	0.45	0.46	0.46	0.12	0.09	0.16	0.14	2.25	4.28

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	125	63.2	48.1	45.0	50.9	51.7	37.9	21.2	53.8	83.1	125	172
MAX	601	296	237	167	421	330	177	131	221	318	614	770
(WY)	(1954)	(1948)	(2003)	(1948)	(1998)	(1998)	(1958)	(1958)	(1947)	(1947)	(1960)	(1960)
MIN	14.0	3.60	4.83	4.32	3.41	3.17	1.89	1.05	3.12	3.13	8.87	12.6
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(1956)	(1956)	(1956)	(1956)	(1950)	(1996)

## 02271500 JOSEPHINE CREEK NEAR DE SOTO CITY, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL TOTAL	34,806		31,593.3			
ANNUAL MEAN	95.4		86.3		73.2	
HIGHEST ANNUAL MEAN					268	1960
LOWEST ANNUAL MEAN					15.1	1956
HIGHEST DAILY MEAN	440	Sep 7	869	Sep 28	1,680	Sep 23, 1948
LOWEST DAILY MEAN	10	May 17	6.1	Jun 2	0.50	May 22, 1956
ANNUAL SEVEN-DAY MINIMUM	11	May 13	6.4	May 28	0.69	May 21, 1956
MAXIMUM PEAK FLOW			881	Sep 28	1,780	Sep 23, 1948
MAXIMUM PEAK STAGE			7.47	Sep 28	**10.67	Sep 23, 1948
ANNUAL RUNOFF (AC-FT)	69,040		62,670		53,030	
ANNUAL RUNOFF (CFSM)	0.875		0.792		0.672	
ANNUAL RUNOFF (INCHES)	11.88		10.78		9.12	
10 PERCENT EXCEEDS	272		247		172	
50 PERCENT EXCEEDS	44		29		38	
90 PERCENT EXCEEDS	24		8.4		7.5	

e Estimated

\*\* Present datum

02271500 JOSEPHINE CREEK NEAR DE SOTO CITY, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966-71, 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
NOV 17...	1220	2.34	25	--	6.2	6.5	128	22.3	--	--	--	--	--
JAN 08...	1116	2.44	31	80	6.8	6.4	137	18.1	8.90	4.10	3.10	6.7	14.0
APR 05...	1323	1.73	13	--	5.9	6.5	163	22.0	--	--	--	--	--
JUN 02...	1159	1.35	6.1	40	4.7	6.5	190	30.8	13.0	5.60	3.10	6.6	14.0
AUG 09...	1250	3.68	88	75	5.6	6.2	147	28.5	9.56	3.98	2.73	7.52	13.4
31...	1355	5.92	467	150	2.7	5.9	138	30.2	8.94	3.99	4.75	7.36	16.3
SEP 08...	1745	6.67	718	--	3.7	5.8	119	27.0	--	--	--	--	--

Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite + nitrate water, unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)
NOV 17...	--	--	--	--	--	.80	--	.07	--	.590	--	<.01	--
JAN 08...	<.1	4.70	22.0	96	--	.80	--	.08	--	.490	--	<.01	--
APR 05...	--	--	--	--	--	1.1	--	.12	--	.830	--	<.01	--
JUN 02...	<.1	7.30	32.0	125	--	.80	--	.14	--	1.60	--	.01	--
AUG 09...	<.2	3.84	29.4	108	--	--	.06	--	.08	--	<.008	--	<.02
31...	<.2	1.97	21.7	99	--	--	.04	--	E.04	--	<.008	--	<.02
SEP 08...	--	--	--	--	<10	--	--	--	--	--	--	--	--

Date	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfiltered, by analysis, mg/L (62855)	Strontium, water, fltrd, ug/L (01080)
NOV 17...	.020	.05	--	--
JAN 08...	.030	.04	--	220
APR 05...	.010	.05	--	--
JUN 02...	<.010	.06	--	480
AUG 09...	--	.05	.83	239
31...	--	.04	.82	226
SEP 08...	--	--	--	--

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

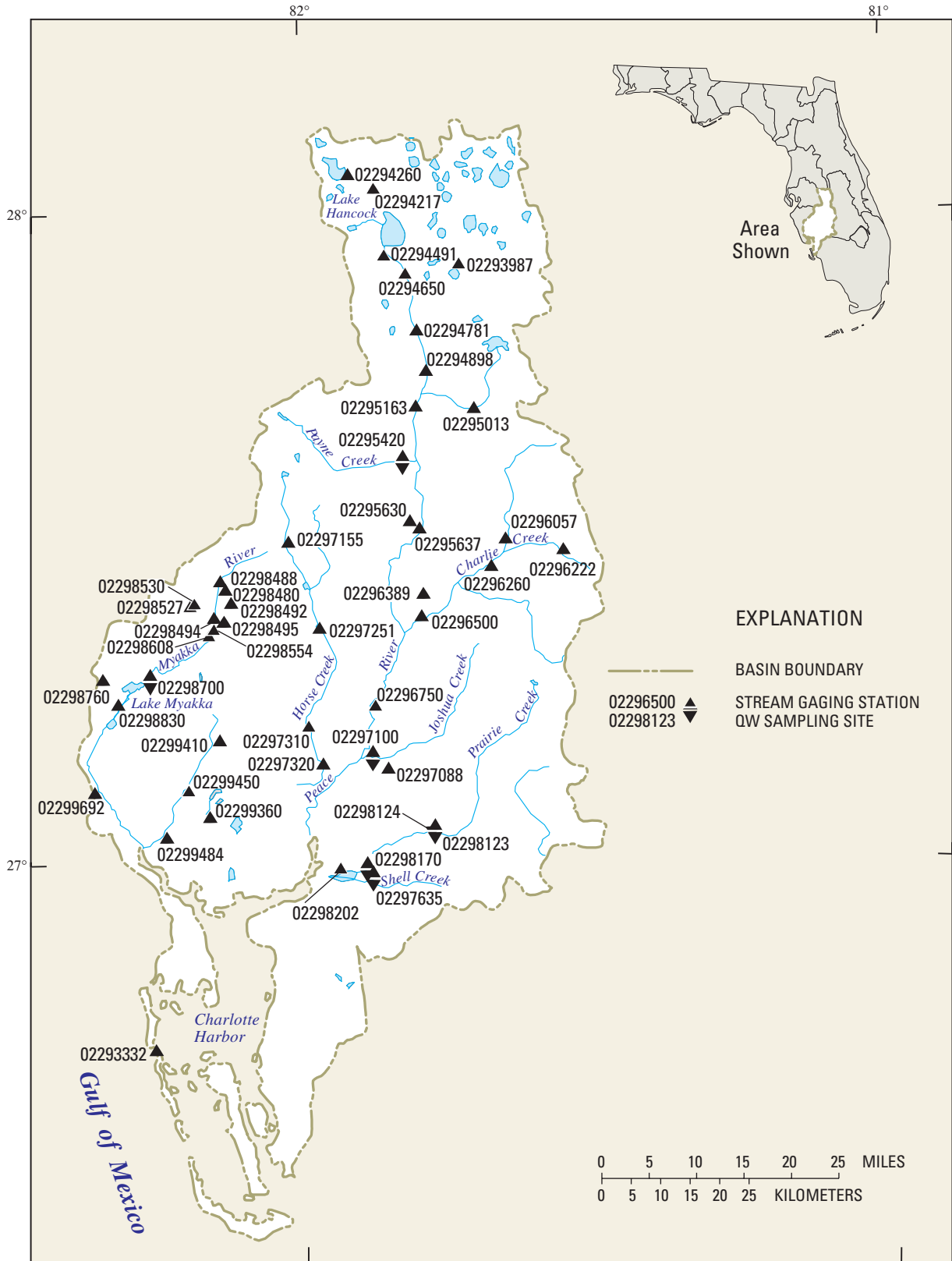


Figure 11.--Location of stream gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE, FL.

LOCATION.--Lat 26° 43'12", long 82° 15'30" (1927 North American datum), in SE  $\frac{1}{4}$  sec.26, T.43 S., R.20 E., Lee County, Hydrologic Unit 03100103, on fishing pier on southeast shore of Gasparilla Island, 0.2 mi north of Boca Grande Pass.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to September 2003 (gage heights only), incomplete; October 2003 to September 2004 (tidal high-high and low-low only). Records of gage heights prior to October 1996 are available in files of the Geological Survey.

REVISIONS.--WRD FL-98-3A: 1997. Gage height data published in WRD FL-98-3A on page 49 as October 1996 to September 1997 are incorrectly titled. The title should be gage height, water year October 1997 to September 1998.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark).

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.26 ft, Aug. 13, 2004; minimum, 1.71 ft below NGVD, Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 4.26 ft, Aug. 13; minimum, 1.31 ft below NGVD, Nov. 29.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.78	-0.06	1.40	-0.28	0.69	-0.12	1.12	-0.10	0.88	-0.27	1.52	-0.26
2	1.89	0.09	1.30	0.15	0.67	-0.17	1.35	-0.29	1.25	-0.66	1.30	-0.44
3	2.04	0.29	1.85	0.58	1.40	-0.26	1.56	-0.34	1.27	-0.84	1.42	-0.72
4	2.07	0.34	1.73	0.59	1.78	0.06	1.81	-0.32	1.62	-0.99	1.61	-0.42
5	1.78	0.20	1.67	0.75	1.42	0.11	1.76	-0.41	0.70	-0.73	1.75	-0.27
6	1.85	0.47	1.65	0.51	0.78	-0.60	1.56	-0.58	1.67	-0.52	0.96	-0.21
7	2.07	0.88	1.82	0.36	1.38	-1.01	1.05	-1.20	1.79	-0.48	1.36	-0.52
8	1.83	0.61	1.74	0.03	1.40	-0.60	---	-0.86	0.63	-1.30	1.17	-0.79
9	1.68	0.58	0.84	-0.31	1.84	-0.72	1.90	-0.10	0.73	-0.72	1.04	-0.38
10	1.63	0.43	1.10	-0.62	1.89	-0.12	2.23	-0.46	1.10	-0.17	1.23	-0.83
11	1.71	0.42	1.63	-0.39	---	-0.34	0.84	-1.03	1.08	-0.20	1.04	-0.61
12	1.95	0.38	1.91	-0.04	1.51	-0.44	0.80	-0.44	1.34	0.43	1.58	---
13	1.79	0.22	2.11	0.15	1.38	-0.26	0.95	-0.17	1.27	-0.37	1.44	-0.50
14	1.87	0.21	---	-0.40	1.99	0.50	1.19	0.08	1.99	-0.44	1.62	-0.84
15	1.89	-0.02	1.74	0.08	0.97	-0.49	1.26	0.27	1.46	-0.32	1.79	-0.69
16	1.42	-0.14	1.78	0.20	1.28	0.06	1.65	-0.16	0.31	-0.98	1.28	-0.36
17	1.67	0.38	1.22	0.02	1.23	0.20	2.05	-0.30	1.21	-1.25	1.31	-0.31
18	1.72	0.15	1.74	0.67	1.30	-0.41	2.23	-0.04	0.71	-1.26	1.55	-0.70
19	1.61	0.22	2.11	0.80	1.10	-0.24	1.84	-0.43	1.58	-1.20	0.77	-0.36
20	1.53	0.33	1.44	-0.04	1.13	-0.68	1.57	-1.08	1.01	-0.54	1.36	-0.22
21	1.70	0.36	1.70	-0.02	1.27	-1.28	1.75	-1.08	1.83	-0.37	1.16	-0.07
22	1.52	0.26	1.94	-0.47	1.79	-1.30	0.28	-1.02	1.70	-0.04	1.13	-0.45
23	1.77	0.61	2.22	-0.45	---	-0.90	1.47	-0.96	1.14	-0.14	0.75	-0.71
24	1.71	0.32	2.29	-0.51	2.19	-0.72	1.25	-0.69	1.64	0.35	0.83	-0.55
25	1.44	-0.21	---	-0.51	1.89	-0.78	1.35	-0.22	1.67	0.29	1.44	-0.58
26	1.80	-0.36	2.15	-0.56	1.49	-0.95	1.30	0.09	1.59	0.83	1.26	-0.52
27	2.18	-0.20	2.13	-0.28	1.24	-0.70	1.20	0.01	0.50	0.09	1.37	---
28	2.59	0.14	2.03	-0.33	1.18	-0.18	0.36	-0.39	0.94	-1.10	1.38	-0.24
29	---	-0.51	---	-1.31	1.25	0.23	1.00	-0.69	1.28	-0.89	1.24	-0.37
30	1.79	-0.52	0.63	-0.45	1.39	0.48	0.69	-0.13	---	---	1.40	-0.65
31	1.12	-0.58	---	---	1.07	0.35	1.09	-0.72	---	---	1.47	-0.22
MAX	---	0.88	---	0.80	---	0.50	---	0.27	1.99	0.83	1.79	---
MIN	---	-0.58	---	-1.31	---	-1.30	---	-1.20	0.31	-1.30	0.75	---

02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.04	0.02	1.88	0.18	1.96	-0.44	2.18	-0.61	2.34	-0.06	0.89	-0.29
2	1.36	-0.45	1.95	0.48	1.96	-0.55	2.25	-0.64	1.86	-0.17	0.71	-0.35
3	1.22	-0.17	2.06	-0.12	2.11	-0.85	2.30	-0.58	1.84	-0.04	0.95	-0.13
4	1.08	-0.13	1.49	-0.63	2.09	-0.79	2.22	-0.40	1.48	0.18	1.13	-0.21
5	1.28	-0.39	1.67	-0.77	2.22	-0.56	2.04	-0.26	1.23	0.37	0.98	0.40
6	1.41	-0.47	2.08	-0.66	2.00	-0.42	1.69	-0.16	1.46	0.31	2.62	0.96
7	1.72	-0.59	2.10	-0.65	1.74	-0.30	1.56	0.25	1.51	0.29	1.75	0.02
8	2.03	-0.47	2.13	-0.46	1.91	0.96	1.30	0.67	1.63	0.09	1.39	-0.15
9	2.00	-0.42	2.19	-0.14	1.37	-0.18	1.36	0.55	1.26	-0.27	1.42	-0.05
10	1.56	-0.60	1.39	---	1.34	0.15	1.42	0.19	1.29	-0.25	0.92	-0.42
11	1.93	---	1.76	0.03	1.42	0.47	1.63	0.12	1.49	-0.25	---	---
12	1.51	-0.39	1.84	0.16	1.49	0.21	1.48	-0.27	1.80	-0.12	---	---
13	1.66	1.01	1.51	0.40	1.59	0.02	1.78	-0.15	4.26	-0.76	---	---
14	0.75	-0.84	1.34	0.37	1.74	-0.10	1.76	-0.33	1.85	-0.25	---	---
15	0.98	-0.96	1.41	0.22	1.90	-0.19	1.93	-0.31	1.64	-0.55	---	---
16	0.97	-0.41	1.31	-0.13	1.80	-0.45	2.20	0.06	1.57	-0.28	---	---
17	0.85	-0.22	---	---	1.79	-0.37	2.64	0.17	1.62	0.02	---	---
18	1.01	-0.27	---	---	1.86	-0.52	2.39	0.10	1.67	0.26	1.62	0.11
19	1.36	-0.38	---	---	1.85	-0.39	2.77	1.26	1.57	0.57	1.70	-0.22
20	1.39	-0.24	---	---	1.85	-0.43	2.64	0.79	1.55	0.60	1.56	-0.31
21	1.87	-0.07	---	---	1.83	-0.20	1.87	0.26	1.50	0.33	1.49	-0.79
22	1.73	-0.30	---	---	1.73	-0.29	1.13	0.06	1.67	0.20	2.03	-0.07
23	1.55	-0.37	---	---	1.60	0.02	1.16	0.27	1.70	-0.12	1.77	-0.02
24	1.66	-0.23	---	---	1.36	0.22	1.35	0.54	1.72	-0.60	1.76	0.09
25	1.63	-0.02	---	---	1.22	0.73	1.46	0.12	1.58	-0.43	1.88	0.07
26	1.57	---	---	---	1.27	0.32	1.80	0.04	1.49	-0.76	2.84	0.90
27	1.45	0.04	---	---	1.54	0.16	2.49	0.33	1.41	-0.89	2.42	0.92
28	1.48	-0.44	---	---	1.60	-0.25	3.43	0.92	1.36	-0.80	1.66	0.53
29	1.36	-0.10	1.12	0.08	1.93	-0.55	2.76	0.23	1.32	-0.68	1.41	0.13
30	1.68	-0.04	1.57	0.12	2.01	-0.53	2.52	0.53	1.34	-0.42	1.54	0.08
31	---	---	1.74	-0.24	---	---	2.61	0.20	1.14	-0.37	---	---
MAX	2.03	---	---	---	2.22	0.96	3.43	1.26	4.26	0.60	---	---
MIN	0.75	---	---	---	1.22	-0.85	1.13	-0.64	1.14	-0.89	---	---



## 02293987 PEACE CREEK DRAINAGE CANAL NEAR WAHNETA, FL.

LOCATION.--Lat 27° 55'28", long 81° 43'37" (1927 North American datum), in SE  $\frac{1}{4}$  sec.29, T.29 S., R.26 E., Polk County, Hydrologic Unit 03100101, on State Highway 665, 0.5 mi north of State Highway 60, 1.9 mi south of Wahnetta, 3.5 mi north of Alturas, and 113 mi upstream from mouth of Peace River at Charlotte Harbour.

DRAINAGE AREA.--162 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 62.00 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to May 10, 1995, at present site at same datum; May 10, 1995 to Aug. 26, 2004, 75 ft downstream at same datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	28	18	20	64	91	27	35	4.7	23	34	567
2	85	26	15	20	73	82	26	28	3.9	21	45	614
3	81	25	14	20	71	74	24	30	3.3	23	48	614
4	75	24	13	20	64	68	21	38	3.9	27	45	614
5	70	24	13	19	57	63	17	38	5.2	21	45	688
6	65	28	13	19	51	58	18	34	7.3	19	44	875
7	61	52	13	18	46	54	19	29	9.8	20	42	886
8	60	53	14	17	42	51	19	24	10	27	79	895
9	56	49	14	17	39	47	20	20	12	22	96	930
10	54	48	14	19	36	44	18	18	12	18	105	977
11	53	47	14	19	34	41	17	16	15	16	102	955
12	55	44	14	18	33	39	28	15	14	19	92	932
13	56	41	13	17	30	37	36	14	24	17	86	902
14	55	39	21	17	30	35	30	14	25	16	e340	876
15	53	36	35	16	36	33	27	14	23	15	e290	855
16	50	34	34	16	37	42	24	13	57	16	e300	838
17	47	32	38	15	36	66	21	11	54	14	e240	827
18	45	31	39	19	34	66	19	9.9	47	15	e270	787
19	42	29	37	27	32	63	18	10	41	21	e320	756
20	40	30	34	32	30	66	16	10	35	28	e390	730
21	37	28	32	32	30	71	15	9.5	62	30	e310	723
22	35	28	31	30	28	74	14	8.5	57	28	e330	711
23	33	27	31	28	27	75	14	7.8	44	24	e370	689
24	31	25	31	26	28	76	13	7.5	36	21	e400	668
25	29	24	29	24	73	75	12	7.1	31	18	e450	644
26	28	23	28	23	115	69	12	6.7	27	16	379	807
27	26	22	27	35	119	56	12	7.4	28	13	390	876
28	25	21	26	48	113	43	12	6.4	45	14	498	901
29	32	21	25	46	102	36	9.6	5.6	29	39	508	907
30	32	19	24	42	---	33	12	5.3	26	42	519	902
31	30	---	21	41	---	27	---	5.1	---	33	528	---
TOTAL	1,523	958	725	760	1,510	1,755	570.6	497.8	792.1	676	7,695	23,946
MEAN	49.1	31.9	23.4	24.5	52.1	56.6	19.0	16.1	26.4	21.8	248	798
MAX	85	53	39	48	119	91	36	38	62	42	528	977
MIN	25	19	13	15	27	27	9.6	5.1	3.3	13	34	567

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	125	62.5	87.1	119	84.7	87.1	60.9	13.2	45.5	85.7	163	245
MAX	372	228	392	443	556	572	232	30.3	273	276	451	798
(WY)	(1995)	(1995)	(2003)	(1998)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(1995)	(2004)
MIN	24.1	5.32	5.98	5.63	4.92	7.28	3.86	1.87	2.02	13.7	18.6	39.8
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(1999)	(2000)	(2001)	(2001)	(1998)	(1999)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1992 - 2004

ANNUAL TOTAL	60,311	41,408.5	98.3
ANNUAL MEAN	165	113	211
HIGHEST ANNUAL MEAN			37.1
LOWEST ANNUAL MEAN			2000
HIGHEST DAILY MEAN	705	Jan 3	977
LOWEST DAILY MEAN	13	Dec 4	3.3
ANNUAL SEVEN-DAY MINIMUM	13	Dec 3	4.5
MAXIMUM PEAK FLOW			1,020
MAXIMUM PEAK STAGE			45.34
10 PERCENT EXCEEDS	399		393
50 PERCENT EXCEEDS	110		31
90 PERCENT EXCEEDS	24		13

e Estimated

## 02294217 SADDLE CREEK AT STATE HIGHWAY 542 NEAR LAKELAND, FL.

LOCATION.--Lat 28° 02' 38", long 81° 52' 35" (1927 North American datum), in SE 1/4 sec. 14, T.28 S., R.24 E., Polk County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 542, 3.7 mi upstream from Lake Hancock, 5.2 mi west of Lakeland, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--53 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1987 to September 1988; August 1996 to current year. Records of discharge prior to October 1996 are available in files of the Geological Survey.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 90.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	61	2.9	0.95	5.2	25	45	19	3.2	0.01	9.8	96	399
2	65	2.2	0.87	4.9	22	47	17	3.6	0.02	16	101	435
3	66	3.7	0.78	5.5	19	53	15	4.4	0.08	18	96	371
4	64	5.7	0.84	9.4	18	53	13	5.2	0.28	16	105	309
5	63	7.6	0.90	8.2	16	47	12	4.2	1.4	14	109	375
6	58	13	0.98	6.9	13	41	10	3.5	0.83	13	100	e718
7	53	31	0.89	5.6	14	37	9.3	3.2	0.53	12	86	749
8	56	48	0.83	e5.4	14	33	8.7	2.9	1.8	13	93	666
9	55	44	0.86	5.2	13	29	8.2	2.8	2.9	11	97	610
10	55	38	0.85	6.7	12	25	7.7	2.6	25	9.6	97	709
11	57	34	0.84	7.5	11	24	7.0	2.5	118	9.3	93	658
12	61	31	0.81	7.0	11	23	12	2.3	78	12	92	589
13	60	28	0.82	6.7	12	21	13	2.1	38	10	98	529
14	56	25	3.7	9.4	12	19	12	1.8	26	9.4	211	481
15	54	22	5.4	24	12	18	10	1.7	36	9.1	268	441
16	48	15	4.6	26	11	36	9.0	1.5	64	10	260	411
17	44	2.8	4.9	23	9.7	48	8.0	1.3	39	9.9	257	e390
18	41	1.7	4.2	27	8.2	43	7.3	1.1	30	10	266	e360
19	39	1.5	3.8	27	6.2	45	6.3	0.93	27	18	253	e339
20	36	1.4	3.5	24	4.7	47	6.0	0.82	24	30	236	e320
21	23	1.1	3.3	21	4.8	49	5.2	0.67	22	35	225	309
22	11	1.1	3.2	18	6.8	49	4.5	0.63	20	37	218	301
23	11	0.97	3.3	16	7.0	43	4.1	0.52	18	40	228	287
24	12	0.90	3.5	14	7.9	37	3.8	0.45	17	50	280	276
25	14	0.87	3.6	12	39	33	3.4	0.41	15	57	270	266
26	14	0.91	3.7	9.7	41	31	3.2	0.33	14	63	254	513
27	10	0.88	4.0	13	35	29	3.0	0.26	13	65	238	e780
28	9.9	0.91	5.9	15	39	26	2.8	0.18	12	70	227	e697
29	14	0.79	5.3	13	42	24	2.5	0.12	11	72	216	e614
30	10	0.83	5.4	12	---	22	2.5	0.08	10	67	205	570
31	3.5	---	5.3	14	---	20	---	0.03	---	71	204	---
TOTAL	1,224.4	367.76	87.82	402.3	486.3	1,097	245.5	55.33	664.85	887.1	5,579	14,472
MEAN	39.5	12.3	2.83	13.0	16.8	35.4	8.18	1.78	22.2	28.6	180	482
MAX	66	48	5.9	27	42	53	19	5.2	118	72	280	780
MIN	3.5	0.79	0.78	4.9	4.7	18	2.5	0.03	0.01	9.1	86	266
AC-FT	2,430	729	174	798	965	2,180	487	110	1,320	1,760	11,070	28,710
CFSM	0.75	0.23	0.05	0.24	0.32	0.67	0.15	0.03	0.42	0.54	3.40	9.10
IN.	0.86	0.26	0.06	0.28	0.34	0.77	0.17	0.04	0.47	0.62	3.92	10.16
*PREC	2.09	1.18	1.61	4.20	1.63	1.87	1.58	1.27	12.19	9.55	16.42	21.45

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

	35.8	23.0	60.7	51.1	34.6	54.6	14.2	2.91	16.4	28.5	77.8	118
MEAN	35.8	23.0	60.7	51.1	34.6	54.6	14.2	2.91	16.4	28.5	77.8	118
MAX	81.0	97.6	286	230	208	253	65.4	10.3	74.2	99.9	191	482
(WY)	(1999)	(1998)	(1998)	(2003)	(1998)	(1998)	(1998)	(1998)	(2003)	(1997)	(2003)	(2004)
MIN	0.99	0.02	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.10	4.18	11.6
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(1998)	(1999)

## 02294217 SADDLE CREEK AT STATE HIGHWAY 542 NEAR LAKELAND, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	27,892.68		25,569.36			
ANNUAL MEAN	76.4		69.9		43.9	
HIGHEST ANNUAL MEAN					104	1998
LOWEST ANNUAL MEAN					5.50	2000
HIGHEST DAILY MEAN	681	Jan 2	780	Sep 27	780	Sep 27, 2004
LOWEST DAILY MEAN	0.78	Dec 3	0.01	Jun 1	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.84	Dec 7	0.07	May 28	0.00	Apr 13, 1999
MAXIMUM PEAK FLOW			795	Sep 6	795	Sep 6, 2004
MAXIMUM PEAK STAGE			**17.33	Sep 6	**17.33	Sep 6, 2004
ANNUAL RUNOFF (AC-FT)	55,330		50,720		31,800	
ANNUAL RUNOFF (CFSM)	1.44		1.32		0.828	
ANNUAL RUNOFF (INCHES)	19.58		17.95		11.25	
10 PERCENT EXCEEDS	185		255		142	
50 PERCENT EXCEEDS	50		14		7.6	
90 PERCENT EXCEEDS	3.0		0.92		0.00	

e Estimated

\* Precipitation, total, inches

\*\*From high water mark

02294260 LAKE PARKER OUTLET AT LAKELAND, FL.

LOCATION.--Lat 28°03'34", long 81°54'52" (1927 North American datum), in SE 1/4 sec.9, T.25 S., R.24 E., Polk County, Hydrologic Unit 03100101, at Lake Parker Outlet, 0.9 mi northeast of old Lakeland power plant, and 2.8 mi northeast of Lakeland.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--Water years 1956-59, 1967, 1969, 1997-99 (miscellaneous discharge measurements only); December 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 126.37 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	0.00	0.00	0.00	0.03	44	0.03	0.13	0.04	0.61	80	92
2	19	0.00	0.00	0.00	0.00	42	0.01	0.09	0.05	0.89	79	94
3	13	0.00	0.00	0.00	0.00	39	e0.01	0.19	0.06	0.82	79	e94
4	13	0.00	0.00	0.00	0.00	24	e0.00	0.12	0.09	0.82	79	85
5	12	0.00	0.00	0.00	0.00	3.7	e0.00	0.10	0.09	0.84	56	101
6	12	0.01	0.00	0.00	0.00	3.7	e0.00	0.10	0.07	0.85	22	164
7	5.3	0.00	0.00	0.00	0.07	3.7	e0.00	0.10	0.06	0.91	38	184
8	16	0.00	0.00	0.00	0.03	3.4	e0.00	0.10	0.05	0.77	49	184
9	27	0.00	0.00	0.00	0.03	2.3	e0.00	0.10	0.21	0.72	54	194
10	25	0.00	0.00	0.00	0.02	1.6	e0.00	0.10	0.54	0.73	52	243
11	23	0.00	0.00	0.00	0.03	0.80	e0.01	0.10	0.25	0.89	48	244
12	22	0.00	0.00	0.00	0.04	0.48	e0.13	0.10	0.56	0.93	44	240
13	21	0.00	0.00	0.00	0.04	0.26	e0.05	0.10	0.39	0.87	53	232
14	19	0.00	0.00	0.00	0.07	0.09	0.10	0.10	0.37	0.85	122	223
15	17	0.00	0.00	0.00	0.09	0.50	e0.06	0.10	0.48	0.93	136	211
16	15	0.00	0.00	0.00	0.07	7.0	0.03	0.10	0.46	0.99	135	201
17	13	0.00	0.00	0.00	0.07	29	e0.04	0.10	0.43	0.85	134	193
18	12	0.00	0.00	0.04	0.07	47	e0.05	0.09	0.42	2.4	144	183
19	10	0.00	0.00	0.00	0.07	45	e0.05	0.09	0.41	46	141	173
20	4.1	0.00	0.00	0.00	0.08	41	0.05	0.09	0.42	82	135	163
21	0.00	0.00	0.00	0.00	0.08	40	0.05	0.08	0.46	91	130	157
22	0.00	0.00	0.00	0.00	0.09	23	0.05	0.07	0.42	95	126	150
23	0.00	0.00	0.00	0.00	0.10	2.4	0.05	0.07	0.41	100	124	143
24	0.00	0.00	0.00	0.00	1.4	1.6	0.05	0.07	0.41	95	125	134
25	0.00	0.00	0.00	0.00	37	1.3	0.06	0.07	0.41	92	120	127
26	0.00	0.00	0.00	0.00	57	1.0	0.06	0.06	0.43	88	114	203
27	0.00	0.00	0.00	0.00	54	0.76	0.07	0.06	0.55	87	109	266
28	0.00	0.00	0.00	0.00	49	0.52	0.07	0.06	0.56	88	102	280
29	0.00	0.00	0.00	0.00	46	0.26	0.05	0.05	0.52	85	97	281
30	0.00	0.00	0.00	0.00	---	0.07	0.22	0.05	0.50	82	87	269
31	0.00	---	0.00	0.02	---	e0.01	---	0.05	---	80	82	---
TOTAL	313.40	0.01	0.00	0.06	245.48	409.45	1.35	2.79	10.12	1,127.67	2,896	5,508
MEAN	10.1	0.00	0.00	0.00	8.46	13.2	0.04	0.09	0.34	36.4	93.4	184
MAX	27	0.01	0.00	0.04	57	47	0.22	0.19	0.56	100	144	281
MIN	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.04	0.61	22	85
AC-FT	622	0.02	0.00	0.1	487	812	2.7	5.5	20	2,240	5,740	10,930
*PREC	1.58	---	1.78	---	---	2.56	---	---	12.07	16.58	20.43	22.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	2.65	1.65	22.8	13.9	2.58	12.8	0.23	3.12	11.5	13.2	50.8	59.0
MAX	10.1	6.60	91.2	55.5	8.46	38.1	0.88	12.4	45.5	36.4	93.4	184
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.42
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2003)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	8,048.42	10,514.33	
ANNUAL MEAN	22.1	28.7	16.3
HIGHEST ANNUAL MEAN			29.5
LOWEST ANNUAL MEAN			0.78
HIGHEST DAILY MEAN	172	Jan 1	281
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 21	0.00
MAXIMUM PEAK FLOW			282
MAXIMUM PEAK STAGE			5.94
ANNUAL RUNOFF (AC-FT)	15,960	20,860	11,780
10 PERCENT EXCEEDS	86	121	75
50 PERCENT EXCEEDS	1.1	0.10	0.00
90 PERCENT EXCEEDS	0.00	0.00	0.00

e Estimated

\* Precipitation, total, inches

02294491 SADDLE CREEK AT STRUCTURE P-11 NEAR BARTOW, FL.

LOCATION.--Lat 27° 56' 17", long 81° 51' 05" (1927 North American datum), in SW 1/4 sec.19, T.29 S., R.25 E., Polk County, Hydrologic Unit 03100101, near right bank, 65 ft downstream from structure P-11, 0.7 mi south of Lake Hancock, 2.3 mi upstream from mouth, and 3.0 mi north of post office in Bartow.

DRAINAGE AREA.--135 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1963 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 84.08 ft above National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District reference mark).

REMARKS.--Records poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

COOPERATION.--Gage heights for the period Sept. 1-17, 2004, were provided by Southwest Florida Water Management District.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	0.10	0.02	0.03	129	143	0.01	0.01	0.01	0.01	65	535
2	17	0.09	0.03	0.03	132	82	0.01	0.01	0.01	0.20	130	486
3	16	0.08	0.03	0.04	92	27	0.01	0.01	0.01	0.19	190	480
4	16	0.08	0.04	2.1	10	20	0.01	0.01	0.01	0.00	187	468
5	15	0.08	0.04	5.9	5.0	13	0.01	0.01	0.01	0.00	181	495
6	13	0.08	0.04	4.0	3.4	8.4	0.01	0.01	0.01	0.00	193	625
7	13	0.09	0.04	3.4	2.3	5.3	0.01	0.01	0.01	0.01	264	943
8	59	0.17	0.04	2.9	1.5	3.4	0.01	0.01	0.01	0.01	363	1,320
9	90	0.27	0.04	3.1	0.93	2.2	0.01	0.01	0.01	0.01	326	1,480
10	90	0.28	0.04	3.2	0.54	1.2	0.01	0.01	0.01	0.01	337	1,580
11	91	0.29	0.05	3.2	0.26	0.60	0.01	0.01	0.01	0.08	317	1,620
12	93	0.27	0.04	3.5	0.13	0.30	0.01	0.01	0.01	0.01	313	1,610
13	154	0.20	0.04	4.6	0.09	0.25	0.01	0.01	0.00	0.01	322	1,550
14	185	0.12	0.08	5.3	0.07	0.33	0.01	0.01	0.01	0.01	275	1,490
15	186	0.08	0.08	5.3	0.07	0.34	0.01	0.01	0.04	0.01	185	1,410
16	133	0.05	0.06	4.8	0.08	0.52	0.01	0.01	0.00	0.01	187	1,320
17	97	0.05	0.05	4.7	0.06	107	0.01	0.01	0.00	0.01	187	1,260
18	97	0.04	0.04	4.7	0.02	232	0.01	0.01	0.00	0.01	282	1,200
19	96	0.04	0.04	4.6	0.02	217	0.01	0.01	0.01	0.01	484	1,130
20	44	0.04	0.03	4.5	0.01	197	0.01	0.01	0.01	61	369	1,070
21	1.6	0.04	0.02	4.6	0.01	177	0.01	0.01	0.00	0.41	325	1,030
22	0.72	0.04	0.02	4.0	0.01	93	0.01	0.01	0.00	0.02	323	968
23	0.44	0.04	0.02	3.5	0.01	5.1	0.01	0.01	0.00	0.01	370	804
24	0.26	0.05	0.03	3.6	0.02	2.1	0.01	0.01	0.00	0.01	480	898
25	0.17	0.05	0.03	4.0	141	1.4	0.01	0.01	0.00	0.01	522	856
26	0.12	0.05	0.03	4.1	247	1.0	0.01	0.01	0.01	0.01	496	1,020
27	0.11	0.04	0.03	77	251	0.55	0.01	0.01	0.00	0.01	484	1,150
28	0.10	0.04	0.03	131	248	0.16	0.01	0.01	0.00	0.02	493	1,290
29	0.10	0.03	0.02	135	248	0.02	0.01	0.01	0.01	15	469	1,350
30	0.10	0.02	0.02	134	---	0.01	0.01	0.01	0.01	51	409	1,350
31	0.10	---	0.02	130	---	0.01	---	0.01	---	58	389	---
TOTAL	1,524.82	2.90	1.14	700.70	1,512.53	1,341.19	0.30	0.31	0.22	186.10	9,917	32,788
MEAN	49.2	0.10	0.04	22.6	52.2	43.3	0.01	0.01	0.01	6.00	320	1,093
MAX	186	0.29	0.08	135	251	232	0.01	0.01	0.04	61	522	1,620
MIN	0.10	0.02	0.02	0.03	0.01	0.01	0.01	0.01	0.00	0.00	65	468
*PREC	1.96	0.51	1.46	4.91	---	---	---	1.44	7.38	9.62	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

	69.2	31.1	42.6	64.6	60.9	66.6	45.5	15.8	36.4	70.8	121	140
MEAN	69.2	31.1	42.6	64.6	60.9	66.6	45.5	15.8	36.4	70.8	121	140
MAX	288	204	505	516	444	647	265	290	270	290	693	1,093
(WY)	(1980)	(1998)	(1998)	(1998)	(1998)	(1998)	(1983)	(1979)	(2003)	(1982)	(1995)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1968)	(1968)	(1968)	(1968)	(1968)	(1968)	(1966)	(1968)	(1965)	(1967)	(1967)	(1980)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1965 - 2004

ANNUAL TOTAL	50,423.76		47,975.21		63.8	
ANNUAL MEAN	138		131		0.25	
HIGHEST ANNUAL MEAN					234	
LOWEST ANNUAL MEAN					1975	
HIGHEST DAILY MEAN	936	Jan 4	1,620	Sep 11	1,620	Sep 11, 2004
LOWEST DAILY MEAN	0.02	Nov 30	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.03	Dec 20	0.00	Jun 21	0.00	Apr 28, 1965
MAXIMUM PEAK FLOW			1,640	Sep 11	1,640	Sep 11, 2004
MAXIMUM PEAK STAGE			**17.63	Sep 11	**17.63	Sep 11, 2004
10 PERCENT EXCEEDS	326		468		223	
50 PERCENT EXCEEDS	95		0.09		0.65	
90 PERCENT EXCEEDS	0.05		0.01		0.00	

\* Precipitation, total, inches

\*\*Value furnished by Southwest Florida Water Management District

## 02294650 PEACE RIVER AT BARTOW, FL.

LOCATION.--Lat 27° 54'07", long 81° 49'03" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.4, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, near center of span on upstream side of westbound bridge on State Highway 60, 500 ft downstream from McKinney Branch, 0.6 mi east of Bartow, and 105 mi upstream from mouth.

DRAINAGE AREA.--390 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1950, published as Peace Creek at Bartow.

REVISED RECORDS.--WSP 1234: Drainage area. WRD FL 1970: 1969.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 87.56 ft above National Geodetic Vertical Datum of 1929. Prior to July 12, 1940, nonrecording gage and July 12, 1940, to Nov. 5, 1948, water-stage recorder at site 200 ft downstream; prior to May 1, 1975, at datum 3.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since 1949, records include an appreciable amount of waste water diverted from ground-water supplies into McKinney Branch by chemical plants and phosphate mines; since July 1963, considerable regulation upstream by control structure P-11 on Saddle Creek. WDR 1992 through WDR 2002 period of record gage height at present datum. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

REVISIONS.--The date for the period of record instantaneous peak gage height published in the 2003 water year is in error. The correct date is Sept. 13, 1960.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	154	66	40	48	329	291	45	34	6.4	43	118	1,160
2	154	63	38	45	328	219	40	43	6.5	80	131	1,320
3	152	61	36	44	315	142	36	48	6.0	74	209	1,330
4	148	58	34	44	171	125	34	48	2.9	49	237	1,360
5	142	56	33	50	127	111	31	48	4.1	45	244	1,520
6	136	68	32	48	116	100	28	48	5.4	40	253	2,060
7	141	73	31	45	109	91	27	46	7.5	33	298	2,160
8	199	77	31	43	102	86	26	42	9.5	37	424	2,800
9	238	79	32	42	96	81	27	36	9.9	40	453	3,750
10	236	79	32	43	90	e79	27	31	13	39	474	4,480
11	231	79	32	43	84	e70	25	28	16	39	479	4,690
12	229	78	32	43	80	e60	42	25	17	39	484	4,670
13	262	75	32	42	76	e56	44	23	23	34	545	4,550
14	317	72	43	42	73	e50	45	22	31	31	721	4,380
15	316	70	49	41	75	e46	44	21	45	29	609	4,140
16	283	67	55	40	74	68	41	20	40	27	e617	3,890
17	222	63	59	39	74	105	38	18	45	27	e540	3,750
18	208	60	61	49	72	227	34	16	49	28	e630	3,580
19	198	58	62	53	70	249	31	15	50	33	e670	3,340
20	162	56	60	58	68	249	29	14	49	77	e948	3,090
21	102	54	58	60	66	245	28	14	53	65	896	2,930
22	92	53	56	60	64	206	26	13	56	47	891	2,750
23	87	51	55	58	62	104	25	11	56	47	918	2,430
24	82	50	54	56	64	90	25	10	51	44	e1,030	2,300
25	77	48	53	54	154	86	24	9.4	47	41	1,140	2,260
26	72	47	52	51	296	84	22	8.6	43	39	1,170	2,950
27	68	46	50	123	331	80	22	8.1	39	37	1,190	3,470
28	65	44	49	269	340	73	22	8.4	40	43	1,240	3,900
29	70	42	48	302	344	67	21	9.0	44	59	1,210	4,180
30	68	41	51	310	---	60	22	7.9	42	93	1,170	4,220
31	68	---	48	315	---	53	---	6.9	---	101	1,140	---
TOTAL	4,979	1,834	1,398	2,560	4,250	3,653	931	732.3	907.2	1,460	21,079	93,410
MEAN	161	61.1	45.1	82.6	147	118	31.0	23.6	30.2	47.1	680	3,114
MAX	317	79	62	315	344	291	45	48	56	101	1,240	4,690
MIN	65	41	31	39	62	46	21	6.9	2.9	27	118	1,160
*PREC	3.37	1.81	1.52	3.53	2.81	---	2.29	0.78	5.82	7.96	---	9.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	307	140	137	182	185	225	171	83.6	147	273	387	481
MAX	1,411	597	1,114	1,217	1,217	1,536	1,107	649	1,319	1,366	1,528	3,114
(WY)	(1954)	(1954)	(1954)	(2003)	(1998)	(1998)	(1959)	(1957)	(1959)	(1959)	(1960)	(2004)
MIN	20.2	6.67	5.73	5.78	4.06	6.55	4.06	0.92	0.74	15.8	17.5	37.4
(WY)	(1991)	(2001)	(2001)	(2001)	(2001)	(2001)	(1999)	(2001)	(2001)	(2001)	(1989)	(1990)

02294650 PEACE RIVER AT BARTOW, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	149,550		137,193.5			
ANNUAL MEAN	410		375		227	
HIGHEST ANNUAL MEAN					814	1960
LOWEST ANNUAL MEAN					35.2	1985
HIGHEST DAILY MEAN	2,240	Jan 5	4,690	Sep 11	4,690	Sep 11, 2004
LOWEST DAILY MEAN	21	May 17	2.9	Jun 4	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	25	May 12	5.5	May 31	0.00	May 19, 2000
MAXIMUM PEAK FLOW			4,710	Sep 11	4,710	Sep 11, 2004
MAXIMUM PEAK STAGE			11.12	Sep 11	11.12	Sep 11, 2004
10 PERCENT EXCEEDS	930		1,140		606	
50 PERCENT EXCEEDS	247		58		102	
90 PERCENT EXCEEDS	50		23		17	

e Estimated

\* Precipitation, total, inches

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.60	4.66	3.90	4.13	6.56	6.42	4.19	3.62	2.87	4.04	5.36	8.21
2	5.60	4.61	3.86	4.07	6.55	6.13	4.02	3.81	2.89	4.90	5.48	8.43
3	5.59	4.56	3.79	4.03	6.51	5.71	3.93	3.95	2.92	4.78	5.98	8.44
4	5.56	4.50	3.73	4.03	5.87	5.58	3.85	3.97	2.90	4.19	6.10	8.48
5	5.52	4.47	3.69	4.20	5.57	5.43	3.76	3.99	3.00	4.11	6.14	8.66
6	5.47	4.69	3.65	4.13	5.45	5.29	3.65	4.01	3.07	3.95	6.17	9.23
7	5.49	4.77	3.64	4.07	5.37	5.17	3.62	3.97	3.19	3.73	6.35	9.32
8	5.85	4.84	3.64	3.99	5.27	5.08	3.59	3.86	3.30	3.85	6.75	9.83
9	6.03	4.88	3.66	3.96	5.19	5.00	3.63	3.72	3.32	3.95	6.83	10.52
10	6.02	4.89	3.67	3.99	5.10	---	3.61	3.58	3.37	3.92	6.89	10.99
11	6.00	4.88	3.66	4.00	4.98	---	3.56	3.48	3.42	3.93	6.91	11.11
12	5.99	4.86	3.67	3.99	4.90	---	3.98	3.41	3.39	3.93	6.92	11.09
13	6.13	4.81	3.66	3.98	4.82	---	4.02	3.34	3.52	3.77	7.06	11.02
14	6.34	4.74	4.00	3.96	4.77	---	4.05	3.30	3.71	3.68	7.47	10.93
15	6.35	4.68	4.16	3.93	4.81	---	4.02	3.27	4.09	3.60	7.23	10.78
16	6.24	4.61	4.33	3.90	4.79	4.74	3.95	3.26	3.95	3.54	---	10.62
17	6.00	4.53	4.43	3.88	4.78	5.25	3.85	3.21	4.10	3.53	---	10.53
18	5.95	4.45	4.47	4.15	4.74	6.28	3.74	3.13	4.20	3.57	---	10.41
19	5.92	4.40	4.49	4.28	4.70	6.38	3.65	3.09	4.23	3.67	---	10.24
20	5.70	4.34	4.45	4.39	4.65	6.38	3.57	3.09	4.22	4.58	---	10.05
21	5.19	4.31	4.39	4.45	4.60	6.36	3.52	3.07	4.31	4.45	7.80	9.93
22	5.06	4.26	4.34	4.45	4.56	6.17	3.47	3.04	4.38	4.02	7.79	9.80
23	4.98	4.23	4.31	4.40	4.51	5.42	3.44	2.99	4.38	4.00	7.83	9.55
24	4.90	4.19	4.29	4.34	4.55	5.21	3.41	2.95	4.27	3.93	---	9.44
25	4.82	4.14	4.27	4.29	5.62	5.14	3.37	2.92	4.16	3.85	8.18	9.40
26	4.73	4.11	4.24	4.23	6.44	5.10	3.33	2.89	4.05	3.79	8.22	9.94
27	4.65	4.08	4.21	5.24	6.56	5.03	3.30	2.88	3.92	3.74	8.24	10.33
28	4.59	4.03	4.18	6.34	6.59	4.89	3.30	2.92	3.94	3.87	8.33	10.63
29	4.72	3.98	4.15	6.46	6.61	4.73	3.28	2.96	4.06	4.32	8.27	10.80
30	4.69	3.95	4.22	6.49	---	4.58	3.32	2.92	4.01	5.04	8.23	10.83
31	4.69	---	4.15	6.51	---	4.39	---	2.88	---	5.17	8.19	---
MEAN	5.50	4.48	4.04	4.46	5.36	---	3.67	3.34	3.70	4.05	---	9.98
MAX	6.35	4.89	4.49	6.51	6.61	---	4.19	4.01	4.38	5.17	---	11.11
MIN	4.59	3.95	3.64	3.88	4.51	---	3.28	2.88	2.87	3.53	---	8.21

## 02294781 PEACE RIVER NEAR HOMELAND, FL.

LOCATION.--Lat 27° 49'15", long 81° 47'59" (1927 North American datum), in SE $\frac{1}{4}$  sec.34, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 640, 1.6 mi east of U. S. Highway 17 in Homeland, and 97 mi upstream from mouth.

DRAINAGE AREA.--411 mi<sup>2</sup>.

PERIOD OF RECORD.--1974, 1979 (miscellaneous highwater discharge measurements only); October 1980 to June 1998 (discharge measurements only); July 1998 to September 2001 (gage heights and discharge measurements only); October 2001 to September 2003; October 2003 to September 2004 (discharge measurements only).

REVISED RECORDS.--WRD FL-98-3A: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Loss of water to ground-water system may occur each year.

## MISCELLANEOUS MEASUREMENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Discharge (ft <sup>3</sup> /s)
Nov. 6	62
Apr. 27	5.6
June 1	1.6
July 1	35
Aug. 19	764
Sept. 14	3,250



## 02294898 PEACE RIVER AT FORT MEADE, FL.

LOCATION.--Lat 27° 45'04", long 81° 46'56" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.26, T.31 S., R.25 E., Polk County, Hydrologic Unit 03100101, near right bank on downstream side of bridge on U. S. Highway 98, 0.4 mi downstream from Sink Branch, 1.2 mi east of U. S. Highway 17 in Fort Meade, and 92 mi upstream from mouth.

DRAINAGE AREA.--480 mi<sup>2</sup>.

PERIOD OF RECORD.--April to June 1964 (fragmentary); July 1964 to April 1967 (gage heights only); May 1967 to September 1969; February 1972 to May 1974 (gage heights and periodic discharge measurements only), incomplete; June 1974 to current year.

REVISED RECORDS.--WRD FL-84-3A: Drainage area.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 10, 1974, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Water diverted into river from ground-water sources by upstream mining industries affects flow on many days. Significant loss of water to ground-water system may occur each year between 02294650 Peace River at Bartow and this station. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	92	43	63	335	430	62	117	e4.5	45	197	1,400
2	244	89	41	61	378	430	52	79	e4.5	86	224	1,360
3	232	86	40	59	398	391	44	72	e4.4	280	221	1,340
4	221	81	39	57	397	296	39	86	e4.4	203	222	1,370
5	211	79	38	57	370	209	35	72	e4.3	179	253	1,460
6	198	82	38	62	269	174	32	57	e4.3	167	286	1,930
7	185	107	37	62	194	152	29	49	e4.2	160	296	2,040
8	198	121	35	59	165	137	28	42	e4.2	147	309	1,970
9	235	117	35	57	145	125	28	36	9.1	122	337	1,960
10	252	116	36	58	131	115	27	29	27	106	414	2,140
11	270	114	38	56	123	105	24	24	47	93	464	2,340
12	276	110	36	52	115	95	47	18	35	89	511	2,430
13	277	104	35	52	106	85	70	14	34	79	546	2,450
14	293	97	71	52	102	77	61	12	38	65	854	2,420
15	318	90	117	51	125	70	53	11	102	55	1,110	2,370
16	344	85	107	50	113	137	46	10	154	47	1,230	2,300
17	347	81	127	50	103	191	41	9.6	133	41	1,260	2,230
18	311	77	113	59	97	160	36	9.0	112	43	1,250	2,160
19	262	75	103	83	93	204	31	8.3	100	64	1,340	2,090
20	239	74	97	85	91	259	27	8.0	103	103	1,330	2,020
21	222	69	91	84	88	296	23	7.6	145	123	1,320	1,970
22	166	66	85	81	85	312	21	7.1	116	119	1,340	1,900
23	131	63	81	78	83	309	19	6.7	100	97	1,310	1,830
24	116	61	77	73	81	242	16	6.3	86	87	1,300	1,760
25	106	58	74	69	182	141	14	5.9	74	81	1,310	1,680
26	97	56	70	66	270	115	12	5.6	68	75	1,370	1,910
27	86	53	68	80	299	102	11	5.2	60	74	1,390	2,190
28	82	51	66	121	357	95	11	4.9	69	110	1,430	2,240
29	104	48	64	168	407	89	9.9	4.7	57	272	1,450	2,300
30	105	44	63	221	---	e71	30	e4.6	52	231	1,420	2,370
31	96	---	64	273	---	e67	---	e4.6	---	185	1,410	---
TOTAL	6,481	2,446	2,029	2,499	5,702	5,681	978.9	826.1	1,755.9	3,628	27,704	59,930
MEAN	209	81.5	65.5	80.6	197	183	32.6	26.6	58.5	117	894	1,998
MAX	347	121	127	273	407	430	70	117	154	280	1,450	2,450
MIN	82	44	35	50	81	67	9.9	4.6	4.2	41	197	1,340
CFSM	0.44	0.17	0.14	0.17	0.41	0.38	0.07	0.06	0.12	0.24	1.86	4.16
IN.	0.50	0.19	0.16	0.19	0.44	0.44	0.08	0.06	0.14	0.28	2.15	4.64
*PREC	1.28	0.54	---	2.15	3.65	---	3.97	1.30	---	6.73	9.49	12.18

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	254	115	148	200	169	196	140	67.0	110	223	355	437
MAX	976	452	1,021	1,311	1,423	1,850	798	679	712	792	1,587	1,998
(WY)	(1995)	(1995)	(2003)	(2003)	(1998)	(1998)	(1998)	(1979)	(2003)	(2003)	(1995)	(2004)
MIN	12.7	2.81	2.91	3.55	2.93	4.57	1.28	0.58	0.60	8.85	54.9	30.3
(WY)	(1991)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(1989)	(1990)

02294898 PEACE RIVER AT FORT MEADE, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	177,950.8		119,660.9		201	
ANNUAL MEAN	488		327		633	
HIGHEST ANNUAL MEAN					1998	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	2,040	Jan 6	2,450	Sep 13	2,450	Sep 13, 2004
LOWEST DAILY MEAN	8.8	May 18	4.2	Jun 7	0.06	May 29, 2000
ANNUAL SEVEN-DAY MINIMUM	14	May 13	4.3	Jun 2	0.07	May 26, 2000
MAXIMUM PEAK FLOW			2,450	Sep 12	2,450	Sep 12, 2004
MAXIMUM PEAK STAGE			80.85	Sep 13	80.85	Sep 13, 2004
ANNUAL RUNOFF (CFSM)	1.02		0.681		0.420	
ANNUAL RUNOFF (INCHES)	13.79		9.27		5.70	
10 PERCENT EXCEEDS	1,190		1,340		553	
50 PERCENT EXCEEDS	281		93		79	
90 PERCENT EXCEEDS	63		20		7.9	

e Estimated  
 \* Precipitation, total, inches

GAGE HEIGHT, FEET  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.58	71.73	70.89	71.28	74.12	74.83	71.25	72.06	---	71.00	72.82	78.71
2	73.45	71.68	70.86	71.25	74.40	74.84	71.08	71.52	---	71.52	73.09	78.58
3	73.34	71.63	70.83	71.21	74.51	74.57	70.93	71.41	---	73.73	73.06	78.55
4	73.24	71.57	70.81	71.17	74.49	73.87	70.81	71.63	---	73.00	73.07	78.62
5	73.13	71.54	70.81	71.17	74.32	73.07	70.74	71.42	---	72.74	73.37	78.85
6	73.01	71.58	70.81	71.26	73.51	72.70	70.67	71.16	---	72.61	73.67	79.92
7	72.86	71.93	70.77	71.25	72.80	72.46	70.59	71.02	---	72.53	73.75	80.14
8	73.00	72.12	70.74	71.21	72.48	72.28	70.58	70.90	---	72.37	73.87	80.01
9	73.37	72.07	70.75	71.17	72.25	72.14	70.59	70.76	70.05	72.08	74.08	79.99
10	73.53	72.05	70.76	71.19	72.09	72.02	70.54	70.61	70.60	71.87	74.62	80.32
11	73.70	72.03	70.79	71.15	71.99	71.89	70.48	70.47	71.03	71.68	74.94	80.66
12	73.75	71.97	70.76	71.08	71.90	71.74	70.95	70.34	70.78	71.62	75.18	80.80
13	73.76	71.90	70.73	71.08	71.79	71.61	71.39	70.24	70.76	71.47	75.45	80.84
14	73.90	71.79	71.33	71.08	71.74	71.49	71.25	70.16	70.85	71.25	76.93	80.80
15	74.11	71.70	72.06	71.07	72.04	71.39	71.09	70.13	71.92	71.07	77.84	80.72
16	74.31	71.63	71.93	71.04	71.90	72.23	70.97	70.11	72.57	70.92	78.23	80.60
17	74.33	71.57	72.19	71.04	71.76	72.93	70.87	70.10	72.32	70.81	78.30	80.47
18	74.05	71.51	72.02	71.20	71.68	72.59	70.75	70.08	72.06	70.84	78.28	80.35
19	73.62	71.48	71.89	71.59	71.63	73.06	70.65	70.06	71.89	71.21	78.53	80.23
20	73.41	71.45	71.80	71.63	71.60	73.60	70.55	70.05	71.92	71.79	78.50	80.10
21	73.25	71.37	71.71	71.60	71.56	73.93	70.46	70.03	72.47	72.05	78.49	80.00
22	72.66	71.32	71.62	71.56	71.53	74.07	70.41	70.02	72.11	72.00	78.54	79.87
23	72.25	71.27	71.56	71.51	71.50	74.04	70.34	70.00	71.89	71.69	78.45	79.74
24	72.05	71.23	71.50	71.44	71.47	73.43	70.27	69.99	71.69	71.53	78.44	79.59
25	71.92	71.19	71.45	71.37	72.69	72.37	70.20	69.97	71.50	71.43	78.46	79.43
26	71.79	71.14	71.39	71.32	73.61	72.04	70.15	69.95	71.40	71.32	78.62	79.89
27	71.64	71.10	71.36	71.54	73.88	71.87	70.13	69.94	71.28	71.30	78.69	80.40
28	71.58	71.06	71.32	72.10	74.33	71.77	70.12	69.93	71.42	71.80	78.79	80.49
29	71.89	71.00	71.29	72.63	74.67	71.68	70.09	69.92	71.21	73.55	78.85	80.60
30	71.90	70.93	71.27	73.16	---	---	70.45	---	71.13	73.16	78.77	80.71
31	71.78	---	71.29	73.62	---	---	---	---	---	72.69	78.74	---
MEAN	73.04	71.55	71.27	71.48	72.70	---	70.64	---	---	71.89	76.53	80.00
MAX	74.33	72.12	72.19	73.62	74.67	---	71.39	---	---	73.73	78.85	80.84
MIN	71.58	70.93	70.73	71.04	71.47	---	70.09	---	---	70.81	72.82	78.55

## 02295013 BOWLEGS CREEK NEAR FT. MEADE, FL.

LOCATION.--Lat 27° 41'59", long 81° 41'44" (1927 North American datum), in NE $\frac{1}{4}$  sec.15, T.32 S., R.26 E., Polk County, Hydrologic Unit 03100101, on right bank, on downstream side of bridge on Avon Park Cut-Off Road, 2.1 mi downstream from Boggy Branch, 2.3 mi south of intersection U.S. Highway 98 and State Highway 630, and 7.6 mi southeast of Ft. Meade.

DRAINAGE AREA.--47.2 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1964 to September 1968; February 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 95.46 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	14	5.3	8.0	14	22	4.7	3.1	2.9	3.1	9.9	259
2	29	13	5.0	7.7	13	19	4.2	3.1	2.9	5.5	12	243
3	27	13	4.8	7.6	13	17	3.8	4.6	2.9	14	12	215
4	25	12	4.7	7.4	12	16	3.5	5.3	2.9	7.8	12	199
5	23	13	4.6	7.2	11	15	3.2	4.0	2.9	15	15	350
6	21	42	4.4	6.9	11	13	3.0	3.4	2.9	32	22	e1,190
7	19	35	4.2	6.7	10	12	2.9	3.3	2.9	51	38	e1,450
8	18	24	4.2	6.7	9.3	12	2.8	3.2	2.9	39	71	e1,240
9	17	21	4.0	6.6	8.9	11	2.6	3.1	3.0	19	51	e850
10	16	19	3.9	6.9	8.4	10	2.5	3.1	4.7	13	38	755
11	16	17	4.1	6.7	8.0	9.2	2.4	3.1	8.9	20	28	573
12	25	15	3.9	6.4	7.8	8.5	8.4	3.1	6.3	22	25	475
13	24	14	3.7	6.3	7.5	8.0	8.7	3.1	5.1	12	51	414
14	23	13	13	6.1	7.6	7.5	6.9	3.1	4.6	9.4	252	361
15	21	12	15	6.0	13	7.2	5.9	3.0	7.7	7.8	280	316
16	19	11	14	5.9	11	29	5.3	3.0	14	7.2	259	284
17	18	10	26	5.7	11	36	4.6	3.0	11	6.8	212	256
18	16	9.3	20	8.9	10	24	4.1	3.0	8.0	13	188	229
19	15	9.1	17	11	9.7	21	3.7	3.0	6.4	39	249	203
20	14	8.9	15	9.8	9.2	18	3.5	3.0	5.1	39	220	186
21	13	8.2	14	8.9	8.8	16	3.4	3.0	4.0	30	184	206
22	12	7.8	13	8.2	8.3	14	3.4	3.0	3.2	22	174	200
23	11	7.4	12	7.7	7.8	12	3.4	3.0	2.8	16	242	177
24	10	7.0	12	7.3	7.5	11	3.3	3.0	2.8	12	250	160
25	9.7	6.8	11	7.0	35	10	3.3	3.0	2.4	10	229	144
26	9.3	6.6	10	6.7	37	9.2	3.2	3.0	2.4	9.1	231	e650
27	8.8	6.3	9.9	7.2	32	8.2	3.1	3.0	5.6	8.1	234	e1,340
28	8.3	6.1	9.4	7.3	29	7.4	3.1	2.9	5.9	7.9	318	e780
29	19	5.7	9.0	7.3	25	6.6	3.1	2.9	4.8	14	302	513
30	17	5.5	8.7	7.5	---	6.0	3.1	2.9	4.3	13	300	400
31	16	---	8.3	8.8	---	5.5	---	2.9	---	10	282	---
TOTAL	551.1	392.7	294.1	228.4	395.8	421.3	119.1	99.2	146.2	527.7	4,790.9	14,618
MEAN	17.8	13.1	9.49	7.37	13.6	13.6	3.97	3.20	4.87	17.0	155	487
MAX	31	42	26	11	37	36	8.7	5.3	14	51	318	1,450
MIN	8.3	5.5	3.7	5.7	7.5	5.5	2.4	2.9	2.4	3.1	9.9	144
AC-FT	1,090	779	583	453	785	836	236	197	290	1,050	9,500	28,990
CFSM	0.38	0.28	0.20	0.16	0.29	0.29	0.08	0.07	0.10	0.36	3.27	10.3
IN.	0.43	0.31	0.23	0.18	0.31	0.33	0.09	0.08	0.12	0.42	3.78	11.52

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

	31.3	14.1	20.3	22.4	22.9	23.4	8.13	3.10	29.2	41.7	64.6	81.0
MEAN	31.3	14.1	20.3	22.4	22.9	23.4	8.13	3.10	29.2	41.7	64.6	81.0
MAX	134	69.2	109	87.5	149	174	45.1	6.92	113	117	196	487
(WY)	(1996)	(1998)	(2003)	(1998)	(1998)	(1998)	(1993)	(1996)	(1968)	(2002)	(1995)	(2004)
MIN	5.86	1.81	1.76	1.82	1.75	1.66	0.54	0.81	1.05	7.85	5.39	8.59
(WY)	(1965)	(2001)	(2001)	(1992)	(2001)	(1967)	(1968)	(2000)	(2000)	(1998)	(1998)	(1991)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1965 - 2004

ANNUAL TOTAL	14,852.2	22,584.5	
ANNUAL MEAN	40.7	61.7	30.8
HIGHEST ANNUAL MEAN			61.7
LOWEST ANNUAL MEAN			11.8
HIGHEST DAILY MEAN	295	Sep 3	1,450
LOWEST DAILY MEAN	1.9	Jun 2	2.4
ANNUAL SEVEN-DAY MINIMUM	2.2	May 29	2.8
MAXIMUM PEAK FLOW			e1,450
MAXIMUM PEAK STAGE			Unknown
ANNUAL RUNOFF (AC-FT)	29,460	44,800	22,330
ANNUAL RUNOFF (CFSM)	0.862	1.31	0.653
ANNUAL RUNOFF (INCHES)	11.71	17.80	8.87
10 PERCENT EXCEEDS	131	213	81
50 PERCENT EXCEEDS	18	9.4	8.4
90 PERCENT EXCEEDS	3.9	3.1	1.9

e Estimated

## 02295163 WHIDDEN CREEK NEAR FT. MEADE, FL.

LOCATION.--Lat 27° 42'25", long 81° 48'28" (1927 North American datum), in SW $\frac{1}{4}$  sec.10, T.32 S., R.25 E., Polk County, Hydrologic Unit 03100101, on upstream side of bridge on U.S. Highway 17, and 3.3 mi south of Ft. Meade.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1939 to May 1983 (miscellaneous discharge measurements only); November 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. From November 2000 to September 2004, discharge not computed above gage height of 9.50 ft due to backwater from the Peace River; October 2002 to September 2004, discharge not computed when affected by backwater from Peace River.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	22	37	37	35	38	e12	64	30	44	54	---
2	84	20	47	37	33	34	e10	63	29	37	61	---
3	79	19	48	35	29	27	e8.7	61	31	96	54	---
4	76	19	49	33	25	30	e7.6	72	25	101	51	---
5	71	20	51	32	22	25	e6.5	51	22	77	59	---
6	66	34	52	31	21	21	e5.7	39	23	65	58	---
7	63	47	53	27	19	19	e5.9	35	25	57	89	---
8	61	54	53	25	17	18	e6.6	31	23	51	210	---
9	59	57	54	24	16	16	e7.0	28	21	46	156	---
10	58	59	55	25	16	15	e7.0	25	41	42	118	---
11	58	61	55	24	15	15	e7.0	25	88	41	107	---
12	60	62	52	22	15	14	e11	23	63	63	104	---
13	65	63	49	20	14	14	e15	22	46	55	117	---
14	66	57	82	20	15	14	e14	22	44	45	244	---
15	65	55	101	19	30	14	e12	25	73	43	321	---
16	62	52	72	18	26	54	e10	31	95	41	---	---
17	59	47	85	17	20	102	e9.4	35	71	38	---	---
18	53	45	70	23	17	62	e8.6	38	55	40	---	---
19	48	42	59	28	16	44	e8.2	40	46	54	---	---
20	43	39	52	22	15	36	e7.8	41	44	75	---	---
21	38	36	47	20	14	29	e7.8	41	45	83	---	---
22	34	33	43	18	14	23	e7.3	41	55	65	---	---
23	32	32	40	17	14	19	8.0	42	53	55	---	---
24	e28	31	38	16	14	17	7.4	42	60	49	---	---
25	e25	31	37	16	49	15	7.4	42	50	45	---	---
26	22	28	35	15	85	15	7.2	43	63	41	---	---
27	20	27	34	18	61	15	7.2	43	55	43	---	---
28	19	27	32	20	49	15	7.3	42	52	62	---	---
29	31	28	33	17	43	15	7.0	39	49	70	---	---
30	31	31	36	17	---	15	8.8	36	64	65	---	---
31	25	---	38	19	---	e13	---	33	---	55	---	---
MEAN	51.3	39.3	51.3	23.0	26.2	25.9	8.51	39.2	48.0	56.3	---	---
MAX	90	63	101	37	85	102	15	72	95	101	---	---
MIN	19	19	32	15	14	13	5.7	22	21	37	---	---

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	57.5	32.3	71.2	18.3	35.3	29.6	16.1	24.1	93.4	56.3	---	112
MAX	63.7	43.2	150	23.0	44.7	46.5	32.5	39.2	139	56.3	---	112
(WY)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2004)	---	(2003)
MIN	51.3	14.5	12.4	13.7	26.2	16.4	7.23	5.62	48.0	56.3	---	112
(WY)	(2004)	(2002)	(2002)	(2002)	(2004)	(2002)	(2002)	(2002)	(2004)	(2004)	---	(2003)

## SUMMARY STATISTICS

## WATER YEARS 2002 - 2004

HIGHEST DAILY MEAN	321	Aug 15, 2004
LOWEST DAILY MEAN	2.0	Oct 18, 2001
ANNUAL SEVEN-DAY MINIMUM	2.4	Oct 15, 2001
MAXIMUM PEAK STAGE	17.96	Sep 7, 2004

e Estimated

## 02295420 PAYNE CREEK NEAR BOWLING GREEN, FL.

LOCATION.--Lat 27° 37' 13", long 81° 49' 33" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.9, T.33 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near center of span on upstream side of bridge on U. S. Highway 17, 0.4 mi downstream from Little Payne Creek, 1.2 mi south of Bowling Green, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--121 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1968; October 1979 to current year.

REVISED RECORDS.--WRD FL-81-3: 1980.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 51.06 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for affected and estimated daily discharges, which are poor. Some diversion by pumping for irrigation. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	208	70	49	67	141	219	63	369	e96	130	185	594
2	222	68	51	66	144	206	53	388	101	126	204	779
3	225	74	52	65	132	189	47	643	102	169	218	637
4	195	79	53	65	125	171	41	906	95	168	213	592
5	179	83	54	66	127	153	35	557	103	142	280	759
6	164	113	53	65	124	130	31	420	98	133	293	2,410
7	144	122	52	64	118	111	32	333	97	138	279	2,780
8	138	116	51	61	108	101	36	282	99	162	473	2,080
9	134	108	53	60	106	94	38	245	104	154	439	1,670
10	128	104	54	61	109	89	38	217	111	150	430	1,410
11	122	101	56	59	101	83	38	197	194	152	405	1,330
12	116	109	54	57	89	79	58	183	188	302	380	1,160
13	117	111	52	57	84	75	79	177	179	263	392	1,010
14	114	110	120	57	84	78	71	166	215	206	810	876
15	104	108	175	56	126	82	63	157	223	176	1,310	768
16	98	97	139	55	126	135	55	158	208	152	1,660	685
17	91	82	212	54	110	219	52	149	189	139	1,380	601
18	82	77	196	67	107	183	48	138	184	127	1,190	526
19	76	60	163	83	101	156	44	125	173	213	1,110	451
20	71	56	148	77	96	141	42	118	152	348	981	390
21	68	52	136	69	92	130	36	111	133	372	947	353
22	65	50	127	66	88	121	36	107	110	317	882	315
23	61	49	119	64	86	113	40	106	98	267	798	273
24	58	49	112	65	87	107	36	106	94	242	719	232
25	55	48	106	78	184	102	32	e111	89	198	639	200
26	54	49	104	83	283	91	28	e111	86	180	575	655
27	53	49	106	81	271	84	24	e110	93	181	528	1,740
28	51	47	103	87	250	81	25	e109	97	218	492	1,340
29	69	46	87	111	235	80	27	e108	117	233	453	1,190
30	82	47	75	118	---	77	81	e107	159	250	427	1,060
31	73	---	69	113	---	71	---	e106	---	206	438	---
TOTAL	3,417	2,334	2,981	2,197	3,834	3,751	1,329	7,120	3,987	6,214	19,530	28,866
MEAN	110	77.8	96.2	70.9	132	121	44.3	230	133	200	630	962
MAX	225	122	212	118	283	219	81	906	223	372	1,660	2,780
MIN	51	46	49	54	84	71	24	106	86	126	185	200
CFSM	0.91	0.64	0.79	0.59	1.09	1.00	0.37	1.90	1.10	1.66	5.21	7.95
IN.	1.05	0.72	0.92	0.68	1.18	1.15	0.41	2.19	1.23	1.91	6.00	8.87
*PREC	---	0.77	3.20	1.98	2.92	2.40	5.01	---	---	6.28	10.33	13.63

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	119	70.8	69.7	84.0	92.0	97.1	58.8	43.2	115	176	225	261
MAX	418	259	357	364	489	637	192	230	592	747	630	962
(WY)	(1995)	(1998)	(1998)	(2003)	(1998)	(1998)	(1983)	(2004)	(1982)	(1968)	(2004)	(2004)
MIN	15.3	7.78	8.94	9.59	6.32	7.94	2.77	2.00	13.4	19.8	32.3	37.2
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(1967)	(1967)	(1967)	(1964)	(1981)	(2000)	(1984)

## 02295420 PAYNE CREEK NEAR BOWLING GREEN, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	76,971		85,560			
ANNUAL MEAN	211		234		118	
HIGHEST ANNUAL MEAN					269	1998
LOWEST ANNUAL MEAN					36.4	2000
HIGHEST DAILY MEAN	2,030	Jun 23	2,780	Sep 7	2,780	Sep 7, 2004
LOWEST DAILY MEAN	15	Apr 18	24	Apr 27	0.53	May 19, 2001
ANNUAL SEVEN-DAY MINIMUM	17	Apr 18	30	Apr 23	0.66	May 15, 2001
MAXIMUM PEAK FLOW			3,230	Sep 6	3,230	Sep 6, 2004
MAXIMUM PEAK STAGE			18.13	Sep 6	18.13	Sep 6, 2004
ANNUAL RUNOFF (CFSM)	1.74		1.93		0.973	
ANNUAL RUNOFF (INCHES)	23.66		26.30		13.22	
10 PERCENT EXCEEDS	511		580		269	
50 PERCENT EXCEEDS	103		112		60	
90 PERCENT EXCEEDS	50		52		12	

e Estimated

\* Precipitation, total, inches

02295420 PAYNE CREEK NEAR BOWLING GREEN, FL.—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1962-63, 1965-70, 1980-83, 1992 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm (00095)	Temperature, water, deg C (00010)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)
NOV 19...	1038	3.58	58	7.9	7.8	422	22.1	--	.70	--	.04	--	.490
JAN 12...	1018	3.53	57	10.1	8.1	463	12.7	--	.70	--	.03	--	.490
JUN 07...	1107	3.61	97	6.5	7.7	454	26.0	--	.70	--	.03	--	.560
JUN 28...	1115	3.76	96	5.5	7.7	425	26.7	--	.70	--	.03	--	.750
AUG 11...	1150	7.23	400	5.2	7.6	317	26.7	--	--	<.04	--	.26	--
SEP 01...	1115	9.91	573	2.7	7.3	278	27.8	--	--	.06	--	.10	--
SEP 08...	1535	16.89	2,000	2.7	6.9	167	27.3	<10	--	--	--	--	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 19...	--	<.01	--	.960	1.00	--
JAN 12...	--	<.01	--	.970	1.00	--
JUN 07...	--	.01	--	.540	.62	--
JUN 28...	--	.01	--	.850	.93	--
AUG 11...	<.008	--	.99	--	1.09	1.22
SEP 01...	E.007	--	1.05	--	1.05	1.16
SEP 08...	--	--	--	--	--	--

Remark codes used in this table:

&lt; -- Less than

E -- Estimated value

02295630 THOMPSON BRANCH NEAR WAUCHULA, FL.

LOCATION.--Lat 27°31'47", long 81°49'03" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.9, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, at culvert on County Road 35A, 1.3 mi south of intersection State Highway 650 and U.S. Highway 17 in Wauchula, and 2.1 mi upstream from mouth.

DRAINAGE AREA.--5.22 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1987 to current year (crest stage only).

GAGE.--Crest stage partial record gage.

REMARKS.--The annual gage height and maximum discharge data for the 1997 water year are in error. The corrected date is September 28, 1997. The corrected gage height is 10.44 ft and the corrected discharge is 465 cfs.

## ANNUAL MAXIMUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Annual gage height (ft)	Maximum discharge (ft <sup>3</sup> /s)
Sept. 8	10.61	488



02295637 PEACE RIVER AT ZOLFO SPRINGS, FL.

LOCATION.--Lat 27° 30'15", long 81° 48'04" (1927 North American datum), in SE 1/4 sec.22, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near left edge of water on upstream side of bridge on U. S. Highway 17, 0.8 mi north of Zolfo Springs, and 69 mi upstream from mouth.

DRAINAGE AREA.--826 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1933 to current year. Prior to October 1950, published as Peace Creek at Zolfo Springs.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 30.20 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1964, at same site at datum 5.00 ft higher.

REMARKS.--Records good. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	931	248	179	198	557	815	195	496	72	396	478	3,080
2	811	226	189	194	628	806	171	549	72	255	731	3,450
3	754	237	194	191	625	778	152	542	97	353	605	3,240
4	683	242	188	185	607	723	136	1,060	82	562	569	2,910
5	621	239	185	179	594	611	121	940	84	464	744	2,720
6	570	286	195	179	566	492	107	584	83	378	761	4,420
7	517	343	193	179	463	433	102	415	78	358	748	7,310
8	479	392	194	171	384	384	103	328	85	370	946	8,380
9	495	371	184	166	345	353	102	275	100	357	1,270	7,970
10	505	358	173	167	328	331	97	234	104	305	1,470	7,140
11	513	352	177	166	312	313	93	207	230	272	1,350	6,330
12	522	350	174	161	292	295	107	187	299	330	1,180	5,880
13	530	349	168	158	292	272	194	170	251	430	1,130	5,640
14	537	337	262	156	283	262	201	159	276	328	1,430	5,380
15	538	323	495	155	367	267	163	143	317	263	2,220	5,130
16	543	306	419	154	410	311	146	142	439	231	3,030	4,910
17	544	288	513	149	364	881	126	143	435	212	3,390	4,690
18	521	267	519	178	336	732	116	138	362	184	3,510	4,470
19	465	255	420	252	317	539	103	126	315	263	3,710	4,230
20	412	244	369	255	302	524	92	129	275	745	3,790	3,990
21	384	231	338	231	294	531	86	117	268	837	3,510	3,820
22	351	220	315	218	292	542	79	106	272	690	3,160	3,640
23	282	213	294	210	275	540	78	104	230	518	2,960	3,440
24	252	207	276	203	273	516	75	102	205	410	2,820	3,220
25	231	203	261	211	405	423	67	100	194	340	2,760	3,020
26	212	182	248	217	883	318	61	99	189	286	2,590	3,320
27	201	184	243	226	892	273	55	103	205	286	2,400	5,610
28	190	191	238	261	807	253	52	93	337	367	2,330	6,890
29	248	183	221	312	810	240	50	84	258	483	2,440	7,010
30	287	176	208	377	---	234	50	80	633	709	2,370	6,540
31	266	---	201	431	---	214	---	76	---	584	2,280	---
TOTAL	14,395	8,003	8,233	6,490	13,303	14,206	3,280	8,031	6,847	12,566	62,682	147,780
MEAN	464	267	266	209	459	458	109	259	228	405	2,022	4,926
MAX	931	392	519	431	892	881	201	1,060	633	837	3,790	8,380
MIN	190	176	168	149	273	214	50	76	72	184	478	2,720
CFSM	0.56	0.32	0.32	0.25	0.56	0.55	0.13	0.31	0.28	0.49	2.45	5.96
IN.	0.65	0.36	0.37	0.29	0.60	0.64	0.15	0.36	0.31	0.57	2.82	6.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2004, BY WATER YEAR (WY)

MEAN	789	364	344	434	482	551	397	248	591	884	1,071	1,362
MAX	3,016	1,536	1,917	2,243	2,716	3,780	1,589	2,035	3,819	4,049	3,623	5,513
(WY)	(1954)	(1954)	(1998)	(1998)	(1998)	(1998)	(1959)	(1957)	(1934)	(1945)	(1960)	(1960)
MIN	72.4	17.9	24.5	29.7	16.8	19.5	19.0	9.38	20.2	69.1	163	209
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(1981)	(1950)	(1984)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1934 - 2004

ANNUAL TOTAL	354,630	305,816	
ANNUAL MEAN	972	836	627
HIGHEST ANNUAL MEAN			1,605
LOWEST ANNUAL MEAN			179
HIGHEST DAILY MEAN	4,860	Jun 24	8,380
LOWEST DAILY MEAN	82	May 18	50
ANNUAL SEVEN-DAY MINIMUM	90	May 13	59
MAXIMUM PEAK FLOW			8,470
MAXIMUM PEAK STAGE			22.39
ANNUAL RUNOFF (CFSM)	1.18		1.01
ANNUAL RUNOFF (INCHES)	15.97		13.77
10 PERCENT EXCEEDS	2,570		1,460
50 PERCENT EXCEEDS	536		320
90 PERCENT EXCEEDS	190		96

\*\*Present datum

## 02295637 PEACE RIVER AT ZOLFO SPRINGS, FL.—Continued

 GAGE HEIGHT, FEET  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.53	5.87	5.27	5.43	7.42	8.68	5.21	7.41	4.38	6.99	7.47	16.22
2	9.01	5.69	5.36	5.39	7.76	8.64	5.02	7.85	4.37	6.07	8.75	16.91
3	8.76	5.77	5.40	5.37	7.73	8.50	4.86	7.80	4.67	6.70	8.13	16.57
4	8.42	5.80	5.35	5.32	7.64	8.22	4.73	10.10	4.50	7.92	7.95	15.93
5	8.12	5.77	5.32	5.27	7.58	7.66	4.59	9.62	4.52	7.39	8.81	15.53
6	7.86	6.09	5.40	5.27	7.44	7.04	4.46	8.02	4.51	6.89	8.89	18.17
7	7.57	6.47	5.39	5.27	6.88	6.72	4.42	7.11	4.45	6.76	8.82	21.35
8	7.36	6.77	5.39	5.20	6.43	6.42	4.45	6.57	4.53	6.84	9.75	22.31
9	7.46	6.65	5.31	5.16	6.18	6.24	4.44	6.21	4.71	6.76	11.17	21.96
10	7.51	6.56	5.22	5.16	6.07	6.09	4.40	5.91	4.75	6.42	11.95	21.21
11	7.55	6.53	5.25	5.16	5.97	5.97	4.37	5.70	5.85	6.19	11.49	20.41
12	7.60	6.52	5.22	5.11	5.83	5.85	4.53	5.54	6.38	6.57	10.77	19.94
13	7.64	6.51	5.17	5.09	5.83	5.69	5.36	5.39	6.04	7.20	10.57	19.69
14	7.68	6.43	5.86	5.07	5.77	5.62	5.44	5.30	6.22	6.57	11.76	19.39
15	7.68	6.34	7.38	5.05	6.31	5.65	5.13	5.15	6.50	6.13	14.35	19.12
16	7.72	6.23	6.93	5.04	6.58	5.92	4.99	5.13	7.25	5.89	16.15	18.86
17	7.72	6.10	7.47	5.00	6.30	8.99	4.81	5.15	7.23	5.74	16.83	18.59
18	7.59	5.96	7.51	5.23	6.12	8.26	4.71	5.09	6.79	5.51	17.01	18.31
19	7.28	5.87	6.94	5.81	6.00	7.30	4.59	4.98	6.49	6.09	17.30	18.01
20	6.97	5.79	6.63	5.82	5.90	7.22	4.48	5.01	6.21	8.81	17.41	17.68
21	6.81	5.69	6.44	5.62	5.85	7.26	4.43	4.89	6.16	9.26	17.00	17.45
22	6.60	5.60	6.29	5.50	5.83	7.31	4.36	4.77	6.19	8.55	16.42	17.19
23	6.14	5.55	6.15	5.42	5.71	7.30	4.35	4.75	5.88	7.69	16.01	16.90
24	5.93	5.50	6.02	5.34	5.70	7.18	4.33	4.73	5.69	7.08	15.74	16.54
25	5.77	5.47	5.91	5.39	6.49	6.66	4.24	4.70	5.60	6.65	15.62	16.13
26	5.62	5.29	5.82	5.42	9.00	6.03	4.18	4.70	5.55	6.29	15.26	16.59
27	5.53	5.31	5.78	5.47	9.05	5.74	4.10	4.74	5.68	6.29	14.85	19.63
28	5.44	5.37	5.75	5.71	8.64	5.61	4.07	4.63	6.63	6.81	14.70	20.96
29	5.89	5.30	5.61	6.05	8.66	5.52	4.06	4.52	6.09	7.49	14.95	21.08
30	6.16	5.24	5.51	6.45	---	5.49	4.06	4.47	8.26	8.64	14.79	20.62
31	6.01	---	5.45	6.75	---	5.35	---	4.43	---	8.02	14.56	---
MEAN	7.19	5.93	5.89	5.43	6.78	6.78	4.57	5.82	5.74	6.97	13.07	18.64
MAX	9.53	6.77	7.51	6.75	9.05	8.99	5.44	10.10	8.26	9.26	17.41	22.31
MIN	5.44	5.24	5.17	5.00	5.70	5.35	4.06	4.43	4.37	5.51	7.47	15.53

02296057 BUCKHORN CREEK NEAR GRIFFIN'S CORNER, FL.

LOCATION.--Lat 27° 31'04", long 81° 39'58" (1927 North American datum), in SE 1/4 sec.13, T.34 S., R.26 E., Hardee County, Hydrologic Unit 03100101, on right bank, 300 ft upstream from Kelly Roberts Road bridge, 1.4 mi upstream from mouth, and 4.4 mi southeast of Griffin's Corner.

DRAINAGE AREA.--17.5 mi<sup>2</sup>.

PERIOD OF RECORD.--May to September 2004.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD MAY TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e0.00	0.00	0.00	42	198
2	---	---	---	---	---	---	---	e0.00	0.00	0.00	104	258
3	---	---	---	---	---	---	---	e0.00	0.00	0.00	95	178
4	---	---	---	---	---	---	---	e0.20	0.00	0.02	50	116
5	---	---	---	---	---	---	---	e0.40	0.00	0.27	44	247
6	---	---	---	---	---	---	---	e0.13	0.00	0.29	54	1,120
7	---	---	---	---	---	---	---	e0.04	0.00	0.43	78	772
8	---	---	---	---	---	---	---	e0.01	0.00	0.28	68	e415
9	---	---	---	---	---	---	---	e0.00	0.29	0.18	45	e290
10	---	---	---	---	---	---	---	e0.00	0.36	0.09	90	e205
11	---	---	---	---	---	---	---	0.00	0.29	0.00	84	e140
12	---	---	---	---	---	---	---	0.00	0.13	0.00	37	e90
13	---	---	---	---	---	---	---	0.00	0.04	0.00	34	e55
14	---	---	---	---	---	---	---	0.00	0.35	0.00	185	e35
15	---	---	---	---	---	---	---	0.00	0.23	0.00	198	e28
16	---	---	---	---	---	---	---	0.00	0.17	0.00	181	22
17	---	---	---	---	---	---	---	0.00	0.06	0.00	153	17
18	---	---	---	---	---	---	---	0.00	0.00	0.00	152	14
19	---	---	---	---	---	---	---	0.00	0.00	0.08	236	11
20	---	---	---	---	---	---	---	0.00	0.00	1.8	162	8.1
21	---	---	---	---	---	---	---	0.00	0.00	6.9	116	14
22	---	---	---	---	---	---	---	0.00	0.00	5.6	79	19
23	---	---	---	---	---	---	---	0.00	0.00	2.7	52	16
24	---	---	---	---	---	---	---	0.00	0.00	1.5	37	12
25	---	---	---	---	---	---	---	0.00	0.00	0.81	34	8.4
26	---	---	---	---	---	---	---	0.00	0.00	6.1	36	604
27	---	---	---	---	---	---	---	0.00	0.00	80	34	1,110
28	---	---	---	---	---	---	---	0.00	0.00	53	29	437
29	---	---	---	---	---	---	---	0.00	0.00	56	25	209
30	---	---	---	---	---	---	---	0.00	0.00	105	21	120
31	---	---	---	---	---	---	---	0.00	---	82	18	---
TOTAL	---	---	---	---	---	---	---	0.78	1.92	403.05	2,573	6,768.5
MEAN	---	---	---	---	---	---	---	0.03	0.06	13.0	83.0	226
MAX	---	---	---	---	---	---	---	0.40	0.36	105	236	1,120
MIN	---	---	---	---	---	---	---	0.00	0.00	0.00	18	8.1
MED	---	---	---	---	---	---	---	0.00	0.00	0.27	54	118
AC-FT	---	---	---	---	---	---	---	1.5	3.8	799	5,100	13,430
CFSM	---	---	---	---	---	---	---	0.00	0.00	0.74	4.74	12.9
IN.	---	---	---	---	---	---	---	0.00	0.00	0.86	5.47	14.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	0.03	0.06	13.0	83.0	226
MAX	---	---	---	---	---	---	---	0.03	0.06	13.0	83.0	226
(WY)	---	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	0.03	0.06	13.0	83.0	226
(WY)	---	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)

e Estimated

02296222 LITTLE CHARLEY BOWLEGS CREEK ABOVE CONTROL NEAR SEBRING, FL.

LOCATION.--Lat 27° 28'40", long 81° 33'25" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.31, T.34 S., R.28 E., Highlands County, Hydrologic Unit 03100101, on right bank, 15 ft upstream from control structure, 750 ft north of county road in Highlands Hammock State Park, 0.8 mi upstream from unnamed creek, 7.1 mi southwest of Sebring, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--41.9 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1952 to September 1965 (elevations only); October 1965 to September 1976 (gage heights only); April to September 2004. Prior to June 1953, records for base gage. Published since October 1962; published as "Auxilliary" October 1962 to September 1967.

GAGE.--Water-stage recorder. Datum of gage is 62.32 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Low stages can be regulated and high stages slightly affected by control structure 15 ft downstream. Period of record discharge 874 ft<sup>3</sup>/s, (September 27, 1960, Hurricane Donna), based on discharge computed for station 02296223 (Little Charley Bowlegs Creek near Sebring) located 160 ft below control.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD APRIL TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e16	0.74	0.01	0.50	1.4	117
2	---	---	---	---	---	---	e14	0.70	0.01	0.38	2.3	115
3	---	---	---	---	---	---	e14	0.90	0.00	0.36	2.7	110
4	---	---	---	---	---	---	e13	1.2	0.00	0.55	3.9	120
5	---	---	---	---	---	---	e12	1.0	0.00	0.50	8.0	179
6	---	---	---	---	---	---	e12	0.88	0.00	0.58	18	343
7	---	---	---	---	---	---	e11	0.78	e0.00	0.76	22	419
8	---	---	---	---	---	---	e11	0.67	e0.00	0.74	25	418
9	---	---	---	---	---	---	e10	0.62	e0.00	0.75	26	395
10	---	---	---	---	---	---	7.8	0.58	e0.00	0.69	26	384
11	---	---	---	---	---	---	6.2	0.57	e0.00	0.64	24	362
12	---	---	---	---	---	---	14	0.54	e0.00	0.64	24	343
13	---	---	---	---	---	---	20	0.49	e0.00	e0.58	23	310
14	---	---	---	---	---	---	19	0.45	e0.00	e0.53	40	277
15	---	---	---	---	---	---	18	0.41	e0.00	e0.43	87	246
16	---	---	---	---	---	---	17	0.39	e0.00	0.37	101	217
17	---	---	---	---	---	---	16	0.37	e0.00	0.36	111	193
18	---	---	---	---	---	---	12	0.35	e0.00	0.54	103	172
19	---	---	---	---	---	---	2.6	0.31	e0.00	1.1	113	151
20	---	---	---	---	---	---	1.5	0.27	e0.00	1.2	120	133
21	---	---	---	---	---	---	1.4	0.22	e0.00	1.3	117	126
22	---	---	---	---	---	---	1.2	0.17	e0.00	1.3	117	119
23	---	---	---	---	---	---	1.1	0.12	e0.00	1.3	141	110
24	---	---	---	---	---	---	1.0	0.07	e0.00	1.2	143	103
25	---	---	---	---	---	---	0.95	0.04	e0.00	1.0	150	97
26	---	---	---	---	---	---	0.88	0.02	e0.00	0.94	179	263
27	---	---	---	---	---	---	0.84	0.01	e0.20	0.96	176	434
28	---	---	---	---	---	---	0.82	0.01	e0.30	1.4	164	423
29	---	---	---	---	---	---	0.77	0.01	e0.40	1.4	148	390
30	---	---	---	---	---	---	0.76	0.01	0.52	1.2	134	349
31	---	---	---	---	---	---	---	0.01	---	1.1	122	---
TOTAL	---	---	---	---	---	---	256.82	12.91	1.44	25.30	2,472.3	7,418
MEAN	---	---	---	---	---	---	8.56	0.42	0.05	0.82	79.8	247
MAX	---	---	---	---	---	---	20	1.2	0.52	1.4	179	434
MIN	---	---	---	---	---	---	0.76	0.01	0.00	0.36	1.4	97
MED	---	---	---	---	---	---	10	0.39	0.00	0.74	101	232
AC-FT	---	---	---	---	---	---	509	26	2.9	50	4,900	14,710
CFSM	---	---	---	---	---	---	0.20	0.01	0.00	0.02	1.90	5.90
IN.	---	---	---	---	---	---	0.23	0.01	0.00	0.02	2.19	6.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	8.56	0.42	0.05	0.82	79.8	247
MAX	---	---	---	---	---	---	8.56	0.42	0.05	0.82	79.8	247
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	8.56	0.42	0.05	0.82	79.8	247
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

e Estimated

## 02296260 CHARLIE CREEK NEAR CREWSTVILLE, FL.

LOCATION.--Lat 27° 27'33", long 81° 40'43" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.2, T.35 S., R.26 E., Hardee County, Hydrologic Unit 03100101, at bridge on State Highway 66, 7.1 mi west of Crewsville, and 14.5 mi upstream from mouth.

DRAINAGE AREA.--142 mi<sup>2</sup>.

PERIOD OF RECORD (corrected).--1974, 1978, 1980 (miscellaneous measurements); October 1980 to March 2004 (crest stage only); April to September 2004.

GAGE.--Water-stage recorder. Prior to Apr. 1, 2004, crest stage partial record gage. Datum of gage has not been determined.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD APRIL TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e1.8	0.86	0.00	0.00	44	792
2	---	---	---	---	---	---	e1.6	0.55	0.00	0.00	44	771
3	---	---	---	---	---	---	e1.6	0.79	0.00	0.00	52	752
4	---	---	---	---	---	---	e1.5	2.7	0.00	0.00	64	718
5	---	---	---	---	---	---	e1.5	3.3	0.00	0.00	65	782
6	---	---	---	---	---	---	e1.4	3.7	0.00	0.00	64	1,510
7	---	---	---	---	---	---	e1.4	3.3	0.00	0.00	84	3,100
8	---	---	---	---	---	---	e1.3	2.5	0.00	0.00	99	3,710
9	---	---	---	---	---	---	e1.3	1.8	0.00	0.00	150	3,180
10	---	---	---	---	---	---	e1.2	1.4	0.00	0.00	218	2,600
11	---	---	---	---	---	---	e1.3	1.1	0.00	0.00	254	2,380
12	---	---	---	---	---	---	e1.4	0.95	0.00	0.01	273	2,100
13	---	---	---	---	---	---	e1.9	0.80	0.00	0.00	275	1,760
14	---	---	---	---	---	---	e2.6	0.60	0.00	0.00	299	1,450
15	---	---	---	---	---	---	e2.9	0.35	0.00	0.00	346	1,200
16	---	---	---	---	---	---	2.8	0.32	0.00	0.00	512	1,030
17	---	---	---	---	---	---	2.4	0.34	0.00	0.05	811	907
18	---	---	---	---	---	---	1.8	0.41	0.00	0.19	1,090	787
19	---	---	---	---	---	---	1.5	0.39	0.00	1.2	1,350	663
20	---	---	---	---	---	---	1.3	0.41	0.00	1.6	1,450	570
21	---	---	---	---	---	---	1.0	0.39	0.00	1.2	1,400	521
22	---	---	---	---	---	---	0.67	0.09	0.00	0.89	1,270	479
23	---	---	---	---	---	---	0.57	0.00	0.00	0.72	1,130	436
24	---	---	---	---	---	---	0.45	0.00	0.00	0.62	1,070	404
25	---	---	---	---	---	---	0.26	0.00	0.00	0.58	1,100	370
26	---	---	---	---	---	---	0.29	0.00	0.00	1.6	1,070	628
27	---	---	---	---	---	---	0.37	0.00	0.00	3.2	1,050	1,690
28	---	---	---	---	---	---	0.40	0.00	0.00	3.0	1,050	3,050
29	---	---	---	---	---	---	0.39	0.00	0.00	7.4	983	3,120
30	---	---	---	---	---	---	0.42	0.00	0.00	16	896	2,550
31	---	---	---	---	---	---	---	0.00	---	31	795	---
TOTAL	---	---	---	---	---	---	39.32	27.05	0.00	69.26	19,358	44,010
MEAN	---	---	---	---	---	---	1.31	0.87	0.00	2.23	624	1,467
MAX	---	---	---	---	---	---	2.9	3.7	0.00	31	1,450	3,710
MIN	---	---	---	---	---	---	0.26	0.00	0.00	0.00	44	370
MED	---	---	---	---	---	---	1.4	0.41	0.00	0.01	512	969
AC-FT	---	---	---	---	---	---	78	54	0.00	137	38,400	87,290
CFSM	---	---	---	---	---	---	0.01	0.01	0.00	0.02	4.40	10.3
IN.	---	---	---	---	---	---	0.01	0.01	0.00	0.02	5.07	11.53

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	1.31	0.87	0.00	2.23	624	1,467
MAX	---	---	---	---	---	---	1.31	0.87	0.00	2.23	624	1,467
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	1.31	0.87	0.00	2.23	624	1,467
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

e Estimated

## 02296389 OAK CREEK NEAR GARDNER, FL.

LOCATION.--Lat 27° 24'42", long 81° 41'44" (1927 North American datum), in NE $\frac{1}{4}$  sec.27, T.35 S., R.26 E., Hardee County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on County Road 634, 3.4 mi upstream from mouth, and 7.8 mi northeast of Gardner.

DRAINAGE AREA.--65.1 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1965 to October 1981 (miscellaneous discharge measurements only); April to September 2004.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD APRIL TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	e3.6	6.5	0.15	6.2	19	220
2	---	---	---	---	---	---	e3.3	5.3	0.84	8.8	17	233
3	---	---	---	---	---	---	e3.0	4.5	1.2	13	17	212
4	---	---	---	---	---	---	e2.7	13	1.6	9.9	18	214
5	---	---	---	---	---	---	e2.5	17	1.4	11	28	332
6	---	---	---	---	---	---	e2.2	12	1.2	9.5	39	1,070
7	---	---	---	---	---	---	e2.1	9.0	0.90	7.3	43	1,250
8	---	---	---	---	---	---	1.9	7.2	0.74	6.4	50	970
9	---	---	---	---	---	---	1.7	5.9	0.72	5.5	61	788
10	---	---	---	---	---	---	1.8	4.9	1.4	4.3	63	623
11	---	---	---	---	---	---	1.6	4.3	3.5	3.6	58	514
12	---	---	---	---	---	---	4.4	3.9	3.7	3.6	50	431
13	---	---	---	---	---	---	5.7	3.3	3.3	3.0	57	366
14	---	---	---	---	---	---	5.3	2.8	5.6	2.5	140	319
15	---	---	---	---	---	---	5.3	2.3	8.3	1.9	168	276
16	---	---	---	---	---	---	4.7	2.0	7.1	1.6	202	251
17	---	---	---	---	---	---	4.0	1.7	5.4	1.6	362	234
18	---	---	---	---	---	---	3.4	1.5	5.3	2.8	347	204
19	---	---	---	---	---	---	2.9	1.2	4.5	11	318	180
20	---	---	---	---	---	---	2.5	0.96	3.6	25	288	159
21	---	---	---	---	---	---	2.1	0.73	3.0	33	255	149
22	---	---	---	---	---	---	1.9	0.55	2.2	31	224	146
23	---	---	---	---	---	---	1.5	0.42	1.7	27	263	134
24	---	---	---	---	---	---	1.3	0.35	1.8	23	518	123
25	---	---	---	---	---	---	1.0	0.28	2.5	19	456	113
26	---	---	---	---	---	---	0.81	0.23	3.2	15	387	665
27	---	---	---	---	---	---	0.69	0.21	3.2	12	344	1,400
28	---	---	---	---	---	---	0.66	0.19	2.6	10	317	1,020
29	---	---	---	---	---	---	0.79	0.17	3.4	15	271	726
30	---	---	---	---	---	---	1.6	0.17	7.1	17	235	580
31	---	---	---	---	---	---	---	0.15	---	18	206	---
TOTAL	---	---	---	---	---	---	76.95	112.71	91.15	358.5	5,821	13,902
MEAN	---	---	---	---	---	---	2.56	3.64	3.04	11.6	188	463
MAX	---	---	---	---	---	---	5.7	17	8.3	33	518	1,400
MIN	---	---	---	---	---	---	0.66	0.15	0.15	1.6	17	113
MED	---	---	---	---	---	---	2.2	2.0	2.8	9.9	202	297
AC-FT	---	---	---	---	---	---	153	224	181	711	11,550	27,570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	2.57	3.64	3.04	11.6	188	463
MAX	---	---	---	---	---	---	2.57	3.64	3.04	11.6	188	463
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	2.57	3.64	3.04	11.6	188	463
(WY)	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

e Estimated

## 02296500 CHARLIE CREEK NEAR GARDNER, FL.

LOCATION.--Lat 27° 22'29", long 81° 47'48" (1927 North American datum), in SE $\frac{1}{4}$  sec.3, T.36 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on U. S. Highway 17, 1.6 mi north of Gardner, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--330 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1950 to current year. Prior to October 1957, published as Charlie Apopka Creek near Gardner.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 21.66 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 24.2 ft in 1928, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,140	48	20	123	93	331	16	123	5.9	18	100	1,740
2	2,020	45	19	116	121	292	15	110	5.7	15	107	1,770
3	1,850	43	19	110	144	249	14	55	6.9	34	107	1,780
4	1,660	42	19	104	151	209	14	65	13	31	122	1,720
5	1,450	41	18	98	147	177	13	61	11	41	232	1,700
6	1,230	43	18	93	137	152	12	45	11	39	246	2,270
7	1,000	42	17	88	126	132	12	35	9.7	28	241	3,640
8	827	41	17	83	114	116	11	28	8.8	21	304	4,930
9	701	41	17	79	104	101	11	24	8.3	17	337	5,340
10	563	40	18	76	98	89	10	20	8.8	14	371	5,100
11	446	39	19	73	92	78	10	18	20	13	e415	4,490
12	359	37	20	70	86	69	12	17	33	14	456	3,920
13	300	36	20	68	82	62	17	15	33	15	491	3,440
14	266	36	40	66	78	56	18	14	30	12	900	2,980
15	241	34	112	64	104	50	15	12	45	11	1,330	2,620
16	221	32	120	63	125	47	14	12	51	9.8	1,530	2,400
17	198	31	225	62	125	48	14	11	35	9.6	1,510	2,220
18	178	30	318	66	125	51	13	9.8	25	11	1,600	2,080
19	161	29	339	94	122	49	12	9.3	19	22	1,840	1,910
20	143	30	358	99	115	46	11	8.7	16	75	2,120	e1,660
21	126	30	355	103	106	43	11	8.3	14	99	2,360	e1,480
22	112	29	341	106	99	41	10	7.8	12	85	2,440	1,330
23	100	28	311	106	92	38	9.6	7.5	10	62	2,420	1,160
24	90	26	276	102	86	34	9.3	7.3	9.4	47	2,380	994
25	81	26	240	98	173	31	8.9	7.2	9.8	38	2,370	831
26	74	26	209	93	376	28	8.5	7.0	11	33	2,360	1,300
27	67	24	187	87	403	26	8.3	6.9	13	99	2,300	2,900
28	62	22	172	82	392	23	8.0	6.8	13	95	2,240	4,060
29	59	21	159	77	369	21	8.7	6.7	13	234	2,160	4,560
30	56	21	143	74	---	19	11	6.6	16	115	2,040	4,400
31	52	---	132	75	---	18	---	6.3	---	100	1,890	---
TOTAL	16,833	1,013	4,278	2,698	4,385	2,726	357.3	771.2	517.3	1,457.4	39,319	80,725
MEAN	543	33.8	138	87.0	151	87.9	11.9	24.9	17.2	47.0	1,268	2,691
MAX	2,140	48	358	123	403	331	18	123	51	234	2,440	5,340
MIN	52	21	17	62	78	18	8.0	6.3	5.7	9.6	100	831
CFSM	1.65	0.10	0.42	0.26	0.46	0.27	0.04	0.08	0.05	0.14	3.84	8.15
IN.	1.90	0.11	0.48	0.30	0.49	0.31	0.04	0.09	0.06	0.16	4.43	9.10
*PREC	0.38	2.83	3.64	2.24	4.12	0.62	3.77	0.99	7.81	8.60	14.42	---

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

	376	127	108	127	162	215	118	42.7	266	424	508	726
MEAN	376	127	108	127	162	215	118	42.7	266	424	508	726
MAX	2,117	1,225	1,377	1,097	1,667	1,838	625	562	2,250	2,275	2,028	2,710
(WY)	(1954)	(1998)	(1998)	(1998)	(1998)	(1998)	(1951)	(1957)	(1982)	(1974)	(1960)	(1953)
MIN	9.87	4.04	3.39	4.81	4.09	2.10	0.81	0.57	2.18	4.85	19.1	27.5
(WY)	(1985)	(2001)	(1982)	(1956)	(1956)	(1956)	(1975)	(1975)	(2000)	(1981)	(1993)	(1996)

## 02296500 CHARLIE CREEK NEAR GARDNER, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	181,823		155,080.2		267	
ANNUAL MEAN	498		424		694	1998
HIGHEST ANNUAL MEAN					64.5	1981
LOWEST ANNUAL MEAN					7,820	Aug 1, 1960
HIGHEST DAILY MEAN	4,700	Jun 24	5,340	Sep 9	0.06	Jun 21, 2000
LOWEST DAILY MEAN	11	Apr 25	5.7	Jun 2	0.10	Jun 16, 2000
ANNUAL SEVEN-DAY MINIMUM	14	Apr 19	6.4	May 27	8,160	Aug 1, 1960
MAXIMUM PEAK FLOW			5,460	Sep 9	18.77	Aug 1, 1960
MAXIMUM PEAK STAGE			17.27	Sep 9	0.808	
ANNUAL RUNOFF (CFSM)	1.51		1.28		10.98	
ANNUAL RUNOFF (INCHES)	20.50		17.48		752	
10 PERCENT EXCEEDS	1,590		1,750		62	
50 PERCENT EXCEEDS	157		66		5.5	
90 PERCENT EXCEEDS	26		11			

e Estimated

\* Precipitation, total, inches



## 02296750 PEACE RIVER AT ARCADIA, FL.

LOCATION.--Lat 27° 13'19", long 81° 52'34" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.26, T.37 S., R.24 E., De Soto County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 70, 1.0 mi west of post office in Arcadia, 6.1 mi upstream from Joshua Creek, and 36 mi upstream from mouth.

DRAINAGE AREA.--1,367 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1931 to current year. Prior to October 1950, published as Peace Creek at Arcadia.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 6.00 ft above National Geodetic Vertical Datum of 1929. Prior to July 19, 1931, nonrecording gage and July 19, 1931, to Sept. 30, 1963, water-stage recorder at same site at datum 2.25 ft higher; Oct. 1, 1963, to May 16, 2003, at site 500 ft upstream at same datum.

REMARKS.--Records good. WDR 1992 through WDR 2002 period of record gage height at present datum.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 20.6 ft, present datum, in 1912, from information by county engineer; discharge, 43,000 ft<sup>3</sup>/s, from rating curve extended above 30,000 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,790	401	227	401	570	1,340	267	314	97	589	847	4,920
2	4,870	372	226	387	714	1,270	249	1,060	93	441	770	4,690
3	4,620	346	232	375	789	1,190	231	1,040	93	313	973	4,710
4	4,210	346	237	368	795	1,100	214	1,110	111	454	1,050	4,850
5	3,660	351	231	354	777	977	196	1,470	111	595	1,250	5,030
6	3,050	365	225	341	753	820	181	1,330	108	534	1,610	5,730
7	2,460	450	229	331	701	693	169	880	115	455	1,580	6,450
8	1,950	502	231	326	589	607	164	615	116	429	1,790	7,390
9	1,570	510	229	315	511	541	160	491	112	438	1,860	9,690
10	1,350	483	225	306	468	495	157	416	126	401	1,930	13,500
11	1,210	462	216	299	446	462	154	360	194	353	2,040	14,400
12	1,100	449	216	297	422	437	165	319	293	451	2,100	13,300
13	1,030	441	214	289	399	404	189	286	357	498	2,030	11,600
14	984	434	283	283	389	371	265	258	510	516	2,220	10,400
15	947	419	492	279	458	362	265	237	454	398	2,790	9,520
16	916	400	721	274	589	376	232	217	483	324	3,920	8,870
17	891	382	889	270	583	516	209	208	556	284	4,560	8,310
18	866	359	1,080	309	530	911	190	202	514	259	4,950	7,890
19	818	345	1,070	382	491	810	177	191	434	271	5,090	7,490
20	743	337	925	443	463	639	166	179	371	584	5,270	7,110
21	670	321	835	434	439	608	156	174	322	1,130	5,570	6,770
22	623	304	784	406	423	609	147	160	311	1,240	5,990	6,460
23	569	289	735	384	405	600	138	147	297	1,040	6,140	6,070
24	494	278	678	367	382	583	134	140	262	758	6,240	5,720
25	449	270	620	353	620	551	130	135	243	580	6,260	5,380
26	417	270	568	348	1,380	467	123	130	227	482	6,090	5,560
27	386	249	527	347	1,720	385	120	127	256	445	5,820	6,440
28	366	242	500	347	1,630	343	114	126	296	499	5,590	7,220
29	362	242	481	367	1,450	316	109	117	367	635	5,330	8,630
30	410	233	449	413	---	297	111	108	375	765	5,080	10,200
31	426	---	421	477	---	284	---	102	---	860	4,890	---
TOTAL	47,207	10,852	14,996	10,872	19,886	19,364	5,282	12,649	8,204	17,021	111,630	234,300
MEAN	1,523	362	484	351	686	625	176	408	273	549	3,601	7,810
MAX	4,870	510	1,080	477	1,720	1,340	267	1,470	556	1,240	6,260	14,400
MIN	362	233	214	270	382	284	109	102	93	259	770	4,690
MED	916	355	449	348	570	551	165	217	277	482	3,920	7,170
CFSM	1.11	0.26	0.35	0.26	0.50	0.46	0.13	0.30	0.20	0.40	2.63	5.71
IN.	1.28	0.30	0.41	0.30	0.54	0.53	0.14	0.34	0.22	0.46	3.04	6.38

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2004, BY WATER YEAR (WY)

MEAN	1,460	553	498	619	735	849	586	313	1,036	1,689	1,956	2,669
MAX	6,954	3,271	3,780	3,652	5,109	6,410	2,449	2,597	6,107	6,604	7,439	9,876
(WY)	(1954)	(1998)	(1998)	(1998)	(1998)	(1998)	(1958)	(1957)	(1982)	(1945)	(1960)	(1933)
MIN	146	40.5	50.1	73.9	39.5	46.2	31.1	9.53	20.0	93.1	324	328
(WY)	(1985)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(1981)	(1993)	(1984)

02296750 PEACE RIVER AT ARCADIA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1932 - 2004	
ANNUAL TOTAL	677,565		512,263		1,081	
ANNUAL MEAN	1,856		1,400		2,571	
HIGHEST ANNUAL MEAN					298	
LOWEST ANNUAL MEAN					1981	
HIGHEST DAILY MEAN	10,700	Jun 26	14,400	Sep 11	34,700	Sep 9, 1933
LOWEST DAILY MEAN	153	May 17	93	Jun 2	5.6	May 6, 2000
ANNUAL SEVEN-DAY MINIMUM	177	May 13	102	May 30	6.3	May 4, 2000
MAXIMUM PEAK FLOW			14,600	Sep 11	36,200	Sep 9, 1933
MAXIMUM PEAK STAGE			17.22	Sep 11	**19.92	Sep 9, 1933
ANNUAL RUNOFF (CFSM)	1.36		1.02		0.791	
ANNUAL RUNOFF (INCHES)	18.44		13.94		10.75	
10 PERCENT EXCEEDS	5,000		5,080		2,710	
50 PERCENT EXCEEDS	801		448		455	
90 PERCENT EXCEEDS	281		168		115	

\*\* Present datum

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.90	3.16	2.46	2.83	3.41	5.41	2.31	2.38	1.62	3.72	4.48	11.68
2	11.01	3.05	2.45	2.78	3.86	5.25	2.23	4.78	1.59	3.21	4.26	11.41
3	10.67	2.96	2.48	2.74	4.07	5.08	2.15	4.71	1.59	2.74	4.83	11.43
4	10.09	2.96	2.51	2.71	4.09	4.87	2.06	4.89	1.72	3.25	5.04	11.60
5	9.39	2.98	2.48	2.66	4.04	4.57	1.98	5.69	1.73	3.73	5.53	11.82
6	8.58	3.03	2.45	2.61	3.97	4.16	1.90	5.39	1.70	3.54	6.35	12.62
7	7.72	3.33	2.47	2.57	3.82	3.80	1.84	4.33	1.75	3.26	6.29	13.33
8	6.90	3.52	2.48	2.55	3.47	3.53	1.81	3.58	1.76	3.16	6.75	14.17
9	6.22	3.54	2.47	2.51	3.22	3.32	1.79	3.18	1.73	3.20	6.90	15.63
10	5.77	3.45	2.45	2.47	3.07	3.16	1.77	2.92	1.82	3.07	7.04	16.95
11	5.45	3.38	2.41	2.44	2.99	3.05	1.75	2.73	2.20	2.89	7.27	17.18
12	5.20	3.33	2.41	2.43	2.90	2.96	1.81	2.59	2.65	3.25	7.41	16.90
13	5.02	3.30	2.40	2.40	2.82	2.84	1.94	2.46	2.91	3.41	7.29	16.44
14	4.92	3.27	2.67	2.38	2.79	2.72	2.30	2.35	3.45	3.47	7.64	15.98
15	4.82	3.22	3.38	2.36	3.03	2.69	2.30	2.26	3.26	3.06	8.65	15.60
16	4.74	3.16	4.05	2.34	3.47	2.74	2.15	2.18	3.36	2.78	10.38	15.26
17	4.68	3.09	4.44	2.32	3.46	3.21	2.04	2.14	3.61	2.62	11.24	14.93
18	4.61	3.01	4.85	2.48	3.28	4.40	1.95	2.12	3.47	2.52	11.72	14.59
19	4.48	2.95	4.79	2.76	3.15	4.13	1.88	2.08	3.18	2.57	11.89	14.25
20	4.27	2.92	4.44	2.98	3.05	3.63	1.82	2.02	2.96	3.66	12.10	13.93
21	4.06	2.86	4.20	2.94	2.96	3.54	1.76	2.01	2.77	5.18	12.44	13.63
22	3.91	2.80	4.06	2.84	2.90	3.54	1.71	1.94	2.73	5.44	12.90	13.35
23	3.74	2.73	3.92	2.77	2.84	3.51	1.66	1.87	2.67	4.97	13.04	12.98
24	3.49	2.69	3.75	2.71	2.76	3.46	1.63	1.84	2.53	4.22	13.14	12.60
25	3.33	2.65	3.57	2.65	3.53	3.35	1.61	1.82	2.44	3.67	13.16	12.22
26	3.21	2.65	3.41	2.64	5.48	3.06	1.56	1.80	2.37	3.33	13.00	12.42
27	3.10	2.56	3.27	2.63	6.20	2.77	1.54	1.79	2.50	3.20	12.72	13.33
28	3.03	2.53	3.18	2.63	6.01	2.62	1.50	1.79	2.67	3.39	12.46	14.02
29	3.02	2.53	3.11	2.71	5.64	2.51	1.47	1.74	2.94	3.84	12.17	15.10
30	3.19	2.49	3.00	2.87	---	2.44	1.48	1.69	2.97	4.24	11.87	15.91
31	3.25	---	2.90	3.10	---	2.38	---	1.65	---	4.52	11.65	---
MEAN	5.57	3.00	3.19	2.64	3.66	3.51	1.86	2.73	2.49	3.52	9.41	14.04
MAX	11.01	3.54	4.85	3.10	6.20	5.41	2.31	5.69	3.61	5.44	13.16	17.18
MIN	3.02	2.49	2.40	2.32	2.76	2.38	1.47	1.65	1.59	2.52	4.26	11.41

02296750 PEACE RIVER AT ARCADIA, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1930, 1940, 1957 to September 1999; October 2000 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Chloride, water, fltrd, mg/L (00940)
NOV 13...	1227	3.30	441	763	6.9	7.7	412	26.0	24.0	87	106	--	18.4
JAN 21...	1215	2.94	434	769	8.5	7.8	432	17.5	16.0	76	93	--	26.4
FEB 10...	1257	3.06	466	769	8.1	7.9	408	26.0	18.5	83	101	--	23.0
MAR 18...	1256	4.48	942	769	6.3	7.4	307	25.0	21.5	47	57	--	18.2
APR 14...	1303	2.34	274	767	8.5	8.2	474	18.0	21.5	103	126	2	23.4
JUN 02...	1240	1.59	93	765	6.7	8.0	509	33.5	30.5	125	143	5	19.4
JUN 23...	1100	2.67	297	767	6.3	8.0	493	31.0	30.0	106	129	--	16.5
JUL 12...	1255	3.29	463	765	6.2	7.6	427	29.0	29.0	76	93	--	17.2
AUG 16...	1415	10.58	4,100	766	.2	6.4	166	33.5	27.5	30	37	--	11.1
SEP 29...	1400	15.20	8,810	762	1.5	6.4	124	31.0	27.7	29	35	--	8.69

Date	Sulfate water, fltrd, mg/L (00945)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)
NOV 13...	75.0	--	.85	.028	.838	.005	1.02	--	1.30	<.006	<.006	<.006	<.005
JAN 21...	84.8	--	.78	.033	.882	.006	.706	--	.92	<.006	<.006	<.006	<.005
FEB 10...	72.3	--	1.1	.066	.595	.008	.885	--	1.10	<.006	E.005	<.006	<.005
MAR 18...	56.6	--	1.1	.035	.633	.011	.735	--	1.14	<.006	E.007	<.006	<.005
APR 14...	89.4	--	.64	.026	.533	.005	1.37	--	1.53	<.006	<.006	<.006	<.005
JUN 02...	88.5	--	.82	.034	.276	.005	1.29	--	1.39	<.006	<.006	<.006	<.005
JUN 23...	93.3	--	.86	.016	.459	.004	1.07	--	1.36	--	--	--	--
JUL 12...	92.1	.67	.89	.022	.478	.005	.911	.94	1.16	<.006	<.006	<.006	<.005
AUG 16...	22.3	--	1.3	.014	<.016	.003	.670	--	.87	--	--	--	--
SEP 29...	10.8	--	1.2	.082	.065	.028	.676	--	.79	<.006	<.006	<.006	<.005

02296750 PEACE RIVER AT ARCADIA, FL.—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azin-phos-methyl, water, fltrd, 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd, 0.7u GF ug/L (82673)	Butyl-ate, water, fltrd, ug/L (04028)	Car-baryl, water, fltrd, 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd, 0.7u GF ug/L (82674)	Chlor-pyrifos, water, fltrd, ug/L (38933)	cis-Per-methrin, water, fltrd, 0.7u GF ug/L (82687)	Cyana-zine, water, fltrd, ug/L (04041)	DCPA, water, fltrd, 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diazi-non, water, fltrd, ug/L (39572)
NOV 13...	<.005	E.006	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005
JAN 21...	<.005	.011	<.050	<.010	<.004	E.006	<.020	<.005	<.006	<.018	<.003	<.012	<.005
FEB 10...	<.005	.018	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005
MAR 18...	<.005	.127	<.050	<.010	<.004	E.013	<.020	<.005	<.006	<.018	<.003	<.012	<.010
APR 14...	<.005	.014	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005
JUN 02...	<.005	.010	<.050	<.010	<.008	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005
JUN 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	<.005	.010	<.050	<.010	<.004	E.016	<.020	<.005	<.006	<.018	<.003	<.012	<.005
AUG 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 29...	<.005	<.010	<.050	<.010	<.004	E.021	<.020	<.005	<.006	<.018	<.003	<.012	<.005

Date	Diel-drin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd, 0.7u GF ug/L (82677)	Ethal-flur-alin, water, fltrd, 0.7u GF ug/L (82663)	Etho-prop, water, fltrd, 0.7u GF ug/L (82672)	Desulf-inyl fipro-nil amide, wat flt ug/L (62169)	Fipro-nil sulfide water, fltrd, ug/L (62167)	Fipro-nil sulfone water, fltrd, ug/L (62168)	Fipro-nil, water, fltrd, ug/L (62166)	Fonofos, water, fltrd, ug/L (04095)	Lindane, water, fltrd, ug/L (39341)	Linuron, water, fltrd, 0.7u GF ug/L (82666)	Mala-thion, water, fltrd, ug/L (39532)	Methyl para-thion, water, fltrd, 0.7u GF ug/L (82667)
NOV 13...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015
JAN 21...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015
FEB 10...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015
MAR 18...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015
APR 14...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015
JUN 02...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015
JUN 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015
AUG 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 29...	<.009	<.02	<.009	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015

02296750 PEACE RIVER AT ARCADIA, FL.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd, 0.7u GF ug/L (82671)	Napropamide, water, fltrd, 0.7u GF ug/L (82684)	p,p'-DDE, water, fltrd, ug/L (34653)	Parathion, water, fltrd, ug/L (39542)	Pebulate, water, fltrd, 0.7u GF ug/L (82669)	Pendimethalin, water, fltrd, 0.7u GF ug/L (82683)	Phorate, water, fltrd, 0.7u GF ug/L (82664)	Prometon, water, fltrd, ug/L (04037)	Propyzamide, water, fltrd, 0.7u GF ug/L (82676)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd, 0.7u GF ug/L (82679)
NOV 13...	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011
JAN 21...	E.006	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011
FEB 10...	E.007	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011
MAR 18...	E.011	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011
APR 14...	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011
JUN 02...	E.004	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011
JUN 23...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 12...	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.015	<.025	<.011
AUG 16...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 29...	<.013	<.006	<.003	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011

Date	Propargite, water, fltrd, 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)	Tebu-thiuron, water, fltrd, 0.7u GF ug/L (82670)	Terbacil, water, fltrd, ug/L (82665)	Terbufos, water, fltrd, 0.7u GF ug/L (82675)	Thio-bencarb, water, fltrd, 0.7u GF ug/L (82681)	Tri-allate, water, fltrd, 0.7u GF ug/L (82678)	Tri-fluralin, water, fltrd, 0.7u GF ug/L (82661)
NOV 13...	<.02	.030	<.02	<.034	<.02	<.010	<.002	<.009
JAN 21...	<.02	.138	<.02	<.034	<.02	<.010	<.002	<.009
FEB 10...	<.02	.023	<.02	<.034	<.02	<.010	<.002	<.009
MAR 18...	<.02	.418	<.02	<.034	<.02	<.010	<.002	<.009
APR 14...	<.02	.019	E.01	<.034	<.02	<.010	<.002	<.009
JUN 02...	<.02	.031	<.02	<.034	<.02	<.010	<.002	<.009
JUN 23...	--	--	--	--	--	--	--	--
JUL 12...	<.02	.173	.02	<.034	<.02	<.010	<.002	<.009
AUG 16...	--	--	--	--	--	--	--	--
SEP 29...	<.02	<.010	<.02	<.034	<.02	<.010	<.002	<.009

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

02297088 HAWTHORN CREEK NEAR NOCATEE, FL.

LOCATION.--Lat 27° 09'02", long 81° 15'31" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.30, T.37 S., R.25 E., De Soto County, Hydrologic Unit 03100101, at bridge on County Road 760-A, 1.2 mi above mouth, and 1.8 mi east of Nocatee.

DRAINAGE AREA.--39 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1984 to current year (crest stage only).

GAGE.--Crest stage partial record gage.

REMARKS.--The annual gage height and maximum discharge data for the 1997 water year are in error. The corrected date is September 28, 1997. The corrected gage height is 14.35 ft and the corrected discharge is 1,977 cfs.

## ANNUAL MAXIMUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Annual gage height (ft)	Maximum discharge (ft <sup>3</sup> /s)
Sept. 10	13.49	1,310

02297100 JOSHUA CREEK AT NOCATEE, FL.

LOCATION.--Lat 27° 09'59", long 81° 52'47" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec. 14, T.38 S., R.24 E., De Soto County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on U. S. Highway 17, 0.5 mi north of Nocatee, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--132 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year.

REVISED RECORDS.--WSP 1334: 1952(M). WSP 1905: Drainage area.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 3.94 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for backwater-affected daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1948 reached a stage of 17.7 ft, from information by local residents.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	800	32	20	40	51	171	22	29	22	177	111	297
2	657	31	20	38	52	137	21	41	21	141	139	313
3	544	30	21	39	49	113	22	53	21	109	172	220
4	448	31	19	37	46	100	20	e100	21	92	384	169
5	366	35	19	35	44	86	20	86	21	85	688	167
6	298	40	19	34	42	72	19	72	30	75	1,070	322
7	244	47	18	33	40	63	18	64	31	85	1,230	1,480
8	201	46	19	32	38	58	18	57	35	91	1,210	1,420
9	167	44	20	32	36	52	18	51	41	78	1,030	1,090
10	140	40	20	32	35	47	19	47	44	65	855	2,110
11	121	37	23	31	34	44	17	45	58	58	670	1,970
12	106	35	22	30	34	42	22	43	69	113	542	1,290
13	94	34	21	29	33	40	27	40	78	183	491	908
14	86	32	38	28	32	37	26	37	151	169	759	645
15	76	30	57	28	47	35	25	36	279	114	1,120	471
16	68	27	60	28	48	38	24	33	297	85	1,310	381
17	62	25	169	29	44	43	23	31	258	81	1,300	312
18	56	26	208	56	42	40	21	30	218	71	1,060	267
19	52	26	200	109	40	38	20	29	172	77	729	265
20	49	26	152	86	38	35	21	29	135	145	519	244
21	48	25	124	69	36	33	20	27	108	253	438	225
22	45	23	112	63	34	31	19	27	87	308	375	224
23	42	22	98	57	33	30	19	25	72	261	343	205
24	40	21	88	52	32	29	18	24	67	194	365	175
25	39	21	75	50	154	27	16	24	109	147	599	147
26	38	27	65	46	333	26	16	24	120	131	597	267
27	37	25	58	44	309	27	17	25	152	111	399	1,300
28	38	22	52	42	255	25	17	24	169	105	309	1,430
29	38	20	48	41	211	24	16	24	142	110	241	982
30	35	20	46	41	---	24	19	22	149	121	191	785
31	33	---	43	44	---	23	---	20	---	112	166	---
TOTAL	5,068	900	1,954	1,355	2,222	1,590	600	1,219	3,177	3,947	19,412	20,081
MEAN	163	30.0	63.0	43.7	76.6	51.3	20.0	39.3	106	127	626	669
MAX	800	47	208	109	333	171	27	100	297	308	1,310	2,110
MIN	33	20	18	28	32	23	16	20	21	58	111	147
CFSM	1.24	0.23	0.48	0.33	0.58	0.39	0.15	0.30	0.80	0.96	4.74	5.07
IN.	1.43	0.25	0.55	0.38	0.63	0.45	0.17	0.34	0.90	1.11	5.47	5.66
*PREC	0.22	0.89	4.14	2.13	1.61	0.04	1.48	---	6.62	5.57	15.99	9.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	157	41.6	39.7	49.1	57.0	82.3	33.5	29.1	143	182	198	298
MAX	1,067	234	405	284	484	439	201	250	1,133	699	626	899
(WY)	(1954)	(1969)	(1998)	(1998)	(1983)	(1998)	(1993)	(1958)	(1982)	(1974)	(2004)	(1994)
MIN	4.56	3.53	1.78	1.95	2.99	0.92	0.60	0.70	0.52	2.16	7.16	18.1
(WY)	(1962)	(1962)	(1956)	(1956)	(1956)	(1956)	(1956)	(1953)	(1956)	(1956)	(1956)	(1984)

## 02297100 JOSHUA CREEK AT NOCATEE, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	66,513		61,525		109	
ANNUAL MEAN	182		168		231	
HIGHEST ANNUAL MEAN					1953	
LOWEST ANNUAL MEAN					20.7	
HIGHEST DAILY MEAN	4,160	Jun 22	2,110	Sep 10	7,910	Oct 10, 1953
LOWEST DAILY MEAN	13	Apr 22	16	Apr 25	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	18	Apr 18	17	Apr 23	0.00	May 3, 1959
MAXIMUM PEAK FLOW			2,570	Sep 10	8,670	Oct 10, 1953
MAXIMUM PEAK STAGE			16.86	Sep 10	19.05	Sep 22, 1962
ANNUAL RUNOFF (CFSM)	1.38		1.27		0.829	
ANNUAL RUNOFF (INCHES)	18.74		17.34		11.26	
10 PERCENT EXCEEDS	481		411		278	
50 PERCENT EXCEEDS	58		47		28	
90 PERCENT EXCEEDS	24		21		4.4	

e Estimated

\* Precipitation, total, inches



02297100 JOSHUA CREEK AT NOCATEE, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2001 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface.

REMARKS.--Interruptions in record were due to malfunctions of the instruments. Specific conductance records good, temperature records excellent.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 2,000 microsiemens, May 17, 2002; minimum, 84 microsiemens, Sept. 14, 2003.

TEMPERATURE.--Maximum, 30.6° C, Aug. 21, 2004; minimum, 10.0° C, Jan. 5, 2002.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 1,560 microsiemens, June 6; minimum, 159 microsiemens, Sept. 27.

TEMPERATURE.--Maximum, 30.6° C, Aug. 21; minimum, 11.5° C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	282	279	780	755	1,040	1,020	740	735	872	807	545	513
2	295	281	787	736	1,110	1,040	763	733	807	786	548	534
3	312	295	806	771	1,110	1,040	770	741	806	753	569	548
4	329	312	876	763	1,090	1,070	766	746	794	756	592	568
5	349	329	876	805	1,140	1,030	768	760	775	761	617	585
6	372	349	929	835	1,160	1,010	793	768	787	775	630	617
7	395	372	1,020	830	1,050	1,010	787	774	786	779	637	629
8	415	395	895	842	1,180	1,050	825	787	797	786	652	632
9	437	415	866	845	1,190	1,120	866	825	816	794	701	652
10	458	436	880	864	1,120	1,060	868	820	819	807	763	698
11	481	458	903	880	1,080	1,010	879	812	841	804	765	719
12	496	475	933	892	1,040	1,010	914	879	880	831	754	721
13	526	492	951	890	1,080	1,040	916	881	916	787	783	754
14	551	520	948	912	1,080	727	950	891	856	779	791	758
15	557	535	964	925	860	757	953	910	790	749	806	785
16	586	553	966	928	867	589	973	908	770	751	812	746
17	606	575	993	931	712	626	921	860	794	760	763	743
18	604	590	1,010	950	636	557	863	621	822	778	760	742
19	614	598	1,010	953	559	542	695	653	823	799	742	713
20	660	609	987	936	590	555	720	672	847	808	736	714
21	700	631	972	935	665	590	750	714	856	809	761	736
22	677	652	985	958	699	647	768	740	812	802	777	753
23	686	664	989	962	685	666	794	745	805	795	829	773
24	686	670	970	957	666	646	826	771	825	804	851	787
25	724	676	970	956	683	659	872	822	804	410	871	851
26	718	671	956	781	691	677	872	808	482	452	889	851
27	816	704	954	895	692	678	808	795	463	446	907	857
28	816	717	987	945	705	685	851	797	489	463	902	879
29	810	762	982	960	713	694	907	851	514	488	885	869
30	762	746	1,020	976	722	713	908	841	---	---	938	850
31	767	743	---	---	736	716	887	849	---	---	943	881
MONTH	816	279	1,020	736	1,190	542	973	621	916	410	943	513

## 02297100 JOSHUA CREEK AT NOCATEE, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	927	916	---	---	1,440	1,260	438	424	555	520	309	262
2	1,010	915	---	---	1,400	1,280	455	424	525	500	329	263
3	1,030	902	---	---	1,540	1,300	488	455	532	494	368	329
4	985	935	776	699	1,510	1,400	512	488	527	351	390	368
5	1,000	962	671	658	1,520	1,400	544	512	354	260	410	390
6	1,030	971	690	671	1,560	1,060	582	543	306	276	399	260
7	1,020	969	707	664	1,140	1,040	635	561	307	280	260	187
8	1,040	1,020	726	681	1,040	875	708	635	335	306	209	189
9	1,040	1,030	750	726	929	795	712	703	353	335	225	193
10	1,100	1,020	773	746	833	789	711	701	373	352	200	167
11	1,100	1,020	814	773	789	594	711	649	393	373	198	170
12	1,080	974	824	811	666	597	681	491	428	392	233	195
13	1,070	994	856	824	666	519	491	392	443	308	278	233
14	1,010	985	918	854	532	418	451	393	348	279	316	278
15	1,050	1,000	938	917	490	424	480	438	288	278	358	316
16	1,020	994	969	918	424	407	536	480	285	228	378	343
17	1,050	1,000	997	954	434	414	577	531	232	224	400	365
18	1,050	1,030	1,080	982	442	427	587	558	245	228	412	365
19	1,050	1,040	1,070	974	469	442	594	546	276	245	365	308
20	1,140	1,030	1,130	1,070	490	469	568	462	298	276	318	307
21	1,190	1,040	1,150	1,100	511	490	467	420	314	298	361	317
22	1,330	1,190	1,160	1,130	536	511	434	424	328	314	385	361
23	1,340	1,240	1,240	1,120	555	535	451	426	342	313	376	359
24	1,280	1,240	1,230	1,120	587	540	478	450	328	264	359	354
25	1,300	1,270	1,340	1,090	628	549	497	478	313	246	360	353
26	1,300	1,270	1,270	1,190	549	501	512	469	327	256	361	209
27	1,350	1,200	1,420	1,230	520	468	540	508	362	327	209	159
28	1,290	1,200	1,370	1,260	468	407	564	532	397	362	170	160
29	1,300	1,240	1,550	1,360	431	408	560	498	424	397	193	166
30	1,300	1,220	1,380	1,310	455	430	520	492	442	424	218	189
31	---	---	1,330	1,240	---	---	558	498	455	260	---	---
MONTH	1,350	902	---	---	1,560	407	712	392	555	224	412	159

## 02297100 JOSHUA CREEK AT NOCATEE, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	25.6	25.2	23.8	22.3	17.7	15.7	19.1	17.4	18.6	15.7	19.2	17.6
2	25.4	24.7	23.8	22.2	17.3	15.2	19.6	18.0	18.3	17.3	20.3	18.8
3	25.6	24.2	23.8	22.7	17.8	15.9	20.1	18.2	18.3	16.4	20.8	19.6
4	26.1	25.0	24.5	23.2	19.4	16.9	20.7	19.0	19.4	16.7	21.5	19.9
5	26.2	25.4	25.3	23.8	20.1	18.8	20.5	19.0	20.6	18.2	22.1	20.6
6	26.3	25.4	24.9	24.4	19.6	15.4	20.3	18.7	22.0	19.7	22.8	20.7
7	26.3	25.4	25.0	23.5	15.4	13.1	20.0	16.4	21.7	18.1	23.7	21.8
8	26.2	25.3	25.4	24.1	15.6	12.7	16.5	14.7	18.1	15.3	23.2	20.7
9	26.4	25.4	25.1	24.3	17.7	15.3	17.8	15.0	17.4	14.2	20.7	17.9
10	26.2	25.5	24.7	23.4	18.7	17.4	17.8	14.7	19.4	16.6	18.8	17.0
11	26.2	25.4	24.2	22.9	18.4	16.2	14.7	12.5	20.6	18.2	18.3	15.8
12	26.7	25.5	23.6	22.2	16.2	14.0	15.2	12.9	21.4	18.9	18.9	16.1
13	26.9	25.9	23.3	21.8	17.3	14.9	15.4	13.5	21.5	20.7	19.3	16.6
14	27.2	26.2	22.9	20.3	19.1	17.3	15.1	12.9	21.3	20.1	19.8	17.6
15	26.8	25.3	21.1	19.3	18.7	16.6	15.4	12.9	21.4	20.0	21.2	19.1
16	25.3	23.4	21.5	19.3	18.5	15.5	15.7	14.0	20.0	17.9	21.3	20.5
17	24.6	23.2	22.1	20.4	18.7	17.1	16.0	13.3	18.0	16.5	22.1	20.3
18	24.5	23.1	23.0	21.2	17.1	14.8	17.2	15.6	16.5	14.3	21.4	18.8
19	24.3	22.8	23.0	21.4	14.8	13.9	18.6	17.0	15.8	12.9	21.7	19.2
20	24.4	23.0	21.4	19.3	13.9	12.5	18.2	16.1	16.5	14.2	21.7	19.5
21	24.3	23.0	19.9	18.1	12.6	11.5	16.1	14.0	18.6	16.1	22.2	19.6
22	24.0	22.4	20.0	18.3	14.0	12.4	15.8	14.1	19.6	16.8	22.5	19.9
23	24.2	22.7	20.4	18.5	15.8	14.0	15.1	13.3	20.3	17.4	20.3	17.7
24	23.8	21.8	21.0	19.0	17.1	15.5	14.5	12.1	22.2	19.3	19.3	17.5
25	23.9	22.2	22.0	20.4	16.7	15.6	15.9	12.9	21.7	18.4	20.2	17.9
26	24.9	23.4	22.4	21.0	16.4	15.0	18.4	15.0	20.2	18.5	21.3	18.9
27	24.9	23.3	21.9	20.5	16.5	15.2	19.8	18.2	20.0	17.3	21.7	19.3
28	24.6	23.8	22.1	20.1	16.9	15.2	18.6	15.0	17.3	15.7	22.3	19.2
29	24.5	23.3	21.3	15.1	18.0	16.3	15.1	12.6	17.6	16.1	21.9	19.2
30	23.3	21.5	15.9	13.5	18.4	16.7	15.9	14.7	---	---	21.7	18.7
31	23.8	22.1	---	---	18.8	17.0	15.9	15.4	---	---	22.4	19.7
MONTH	27.2	21.5	25.4	13.5	20.1	11.5	20.7	12.1	22.2	12.9	23.7	15.8
1	21.5	18.4	---	---	29.9	24.7	28.2	26.4	27.5	26.6	28.2	26.7
2	20.0	16.4	---	---	30.3	25.3	28.9	27.7	26.8	26.1	28.9	27.2
3	20.3	16.6	---	---	29.1	25.0	28.9	27.4	26.8	26.4	29.3	28.0
4	20.3	16.6	24.4	24.2	26.8	24.7	29.2	27.1	26.5	26.1	29.3	27.3
5	20.5	16.8	24.3	23.3	27.2	23.7	29.4	27.3	27.5	26.1	27.3	25.4
6	20.7	16.7	24.4	21.8	26.8	23.9	29.5	27.2	28.4	26.8	26.9	25.1
7	21.8	18.3	24.7	22.2	27.6	24.4	28.5	26.5	28.4	27.8	27.3	26.4
8	22.9	19.1	24.5	21.8	27.2	24.8	28.5	25.6	28.0	27.1	28.1	26.8
9	23.7	20.6	24.9	22.4	26.7	24.6	29.2	26.7	28.7	26.9	29.1	27.5
10	25.1	21.8	24.4	22.7	26.9	24.6	29.4	26.9	28.9	27.3	28.5	27.0
11	24.7	21.2	24.0	22.6	26.2	24.6	29.0	26.9	29.1	27.7	29.4	27.7
12	22.9	21.1	25.4	22.8	27.5	25.3	27.4	25.8	29.0	27.6	29.5	28.3
13	21.7	20.6	26.0	23.2	27.6	26.1	27.8	26.5	28.7	25.7	29.4	28.4
14	20.6	18.2	26.2	23.6	26.9	25.9	28.9	27.4	27.2	25.1	28.8	27.8
15	19.4	16.0	26.5	23.5	27.1	26.1	29.0	27.6	28.6	26.6	27.9	27.3
16	20.0	16.6	25.9	23.9	27.9	26.8	28.8	27.3	29.4	27.7	28.8	27.5
17	21.2	17.9	27.1	23.8	28.2	27.5	27.7	26.3	29.9	28.2	29.5	28.5
18	22.2	18.5	27.0	23.9	28.5	27.7	28.1	26.5	30.2	28.7	29.3	28.4
19	21.9	19.0	26.8	23.6	29.0	28.0	27.7	26.1	30.1	28.8	29.3	28.3
20	22.7	19.0	26.8	23.6	29.1	28.2	26.4	25.5	30.4	28.8	28.8	26.6
21	22.8	20.1	27.2	23.4	29.2	27.7	26.2	25.0	30.6	29.7	26.6	25.8
22	24.3	20.3	27.3	23.5	29.0	27.6	27.6	25.9	30.3	29.0	26.2	25.4
23	24.9	21.8	27.1	23.2	29.1	27.0	27.9	26.8	29.6	28.3	26.7	25.6
24	25.6	21.4	27.5	22.9	29.0	27.0	28.4	27.2	28.3	27.2	26.9	26.1
25	25.6	23.0	27.6	22.5	28.2	26.2	28.8	27.5	27.9	26.1	26.8	26.2
26	26.5	22.2	27.6	23.7	28.9	26.9	28.2	27.2	29.6	27.3	26.2	24.8
27	24.6	22.6	28.8	24.6	28.2	27.1	27.8	26.8	29.7	28.6	27.1	24.8
28	24.8	20.3	28.8	24.0	28.1	27.3	27.8	26.5	29.8	28.0	27.8	26.4
29	24.8	22.0	27.8	24.1	28.0	27.0	28.0	26.8	29.8	28.7	28.6	26.9
30	26.2	22.9	28.8	24.5	27.1	26.1	28.3	27.0	29.9	28.7	28.9	27.4
31	---	---	29.8	24.9	---	---	28.2	27.2	30.3	27.5	---	---
MONTH	26.5	16.0	---	---	30.3	23.7	29.5	25.0	30.6	25.1	29.5	24.8

## 02297155 HORSE CREEK NEAR MYAKKA HEAD, FL.

LOCATION.--Lat 27° 29'13", long 82° 01'25" (1927 North American datum), in SE  $\frac{1}{4}$  sec.29, T.34 S., R.23 E., Hardee County, Hydrologic Unit 03100101, near left bank on downstream side of bridge on State Highway 64, 3.5 mi northeast of Myakka Head, and 39.5 mi upstream from mouth.

DRAINAGE AREA.--42 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1977 to current year.

REVISED RECORDS.--WRD FL-84-3A: Drainage area. WRD FL-92-3A: 1988, 1988 (M). WRD FL-97-3A: 1993-96 (period of record maximum).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 58.12 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	15	2.2	7.7	22	38	1.8	1.6	0.01	4.9	46	189
2	98	13	2.1	7.3	19	32	1.4	0.30	0.05	7.2	56	165
3	82	11	1.9	6.8	16	27	1.2	6.5	0.05	9.3	57	148
4	68	11	1.7	6.4	13	23	1.1	29	0.23	12	63	138
5	58	9.8	1.8	5.5	11	20	0.92	21	0.33	11	81	259
6	50	16	1.9	5.0	9.2	18	0.82	14	0.12	16	67	1,470
7	43	33	1.5	4.5	8.2	16	0.72	9.2	0.55	12	156	773
8	40	20	1.3	3.6	6.9	14	0.58	6.1	3.1	8.5	292	568
9	34	15	1.2	3.5	6.0	12	0.52	3.8	1.2	6.2	216	422
10	29	13	1.2	3.7	5.2	11	0.44	2.5	2.3	5.1	166	366
11	26	11	1.8	3.3	4.7	9.4	0.40	1.7	6.5	5.7	113	261
12	23	9.7	1.5	3.1	4.4	8.4	6.5	1.2	4.4	13	90	232
13	21	8.5	1.3	2.9	4.2	7.6	7.8	0.73	2.6	8.9	192	204
14	18	7.3	40	2.5	5.4	7.1	5.7	0.43	2.2	6.8	663	171
15	15	6.5	44	2.3	33	7.7	6.6	0.23	5.8	6.3	505	148
16	13	6.0	34	2.4	20	24	4.9	0.17	5.5	6.4	441	115
17	11	5.5	95	2.4	15	27	3.1	0.13	3.9	5.5	455	87
18	9.9	5.1	53	8.3	12	17	1.9	0.12	2.6	5.7	417	67
19	8.5	6.2	37	14	9.4	13	1.0	0.13	1.9	32	346	53
20	7.4	7.7	29	12	8.0	11	0.57	0.13	1.4	90	288	44
21	6.6	6.4	24	11	7.0	9.0	0.33	0.14	0.99	86	258	41
22	5.8	5.6	20	9.6	6.2	7.4	0.19	0.11	0.68	54	259	37
23	5.1	5.0	18	8.0	5.6	5.9	0.10	0.09	0.43	42	248	30
24	4.3	4.4	16	6.7	5.1	5.0	0.07	0.06	0.31	36	250	24
25	3.8	4.0	15	5.8	140	4.4	0.05	0.04	1.0	30	246	20
26	3.7	3.7	13	5.2	140	3.9	0.04	0.03	5.6	26	236	552
27	3.4	3.4	12	7.6	81	3.3	0.04	0.02	20	42	216	711
28	3.8	3.1	11	7.4	60	2.8	0.05	0.02	14	52	194	379
29	30	2.8	10	5.5	47	2.5	0.19	0.02	9.3	52	174	293
30	23	2.5	9.0	5.0	---	2.3	0.59	0.02	6.6	49	160	228
31	18	---	8.2	7.4	---	2.2	---	0.01	---	45	149	---
TOTAL	882.3	271.2	509.6	186.4	724.5	391.9	49.62	99.53	103.65	786.5	7,100	8,195
MEAN	28.5	9.04	16.4	6.01	25.0	12.6	1.65	3.21	3.46	25.4	229	273
MAX	120	33	95	14	140	38	7.8	29	20	90	663	1,470
MIN	3.4	2.5	1.2	2.3	4.2	2.2	0.04	0.01	0.01	4.9	46	20
CFSM	0.68	0.22	0.39	0.14	0.59	0.30	0.04	0.08	0.08	0.60	5.45	6.50
IN.	0.78	0.24	0.45	0.17	0.64	0.35	0.04	0.09	0.09	0.70	6.29	7.26
*PREC	1.12	1.32	6.51	2.37	4.26	1.46	3.40	1.20	5.84	7.27	11.36	12.75

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2004, BY WATER YEAR (WY)

MEAN	23.6	13.3	15.0	19.2	19.3	25.8	13.2	4.44	33.7	44.6	71.3	91.1
MAX	88.8	147	142	111	133	162	90.8	24.8	238	114	229	297
(WY)	(1983)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1987)	(2003)	(1986)	(2004)	(1994)
MIN	0.55	0.05	0.13	0.14	0.10	0.15	0.04	0.00	0.02	2.32	2.48	2.74
(WY)	(1985)	(2001)	(2001)	(1985)	(2001)	(2000)	(2000)	(2000)	(1997)	(1993)	(1993)	(1984)

## 02297155 HORSE CREEK NEAR MYAKKA HEAD, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1978 - 2004	
ANNUAL TOTAL	20,919.77		19,300.20		31.2	
ANNUAL MEAN	57.3		52.7			
HIGHEST ANNUAL MEAN					71.5	1998
LOWEST ANNUAL MEAN					4.56	2000
HIGHEST DAILY MEAN	1,740	Jun 21	1,470	Sep 6	2,240	Sep 7, 1988
LOWEST DAILY MEAN	0.00	Many Days	0.01	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.01	Apr 7	0.02	May 26	0.00	Apr 30, 1981
MAXIMUM PEAK FLOW			1,790	Sep 6	3,610	Jun 21, 2003
MAXIMUM PEAK STAGE			22.78	Sep 6	24.67	Jun 21, 2003
ANNUAL RUNOFF (CFSM)	1.36		1.26		0.743	
ANNUAL RUNOFF (INCHES)	18.53		17.09		10.10	
10 PERCENT EXCEEDS	126		165		75	
50 PERCENT EXCEEDS	17		8.0		6.3	
90 PERCENT EXCEEDS	1.7		0.43		0.19	

\* Precipitation, total, inches

## 02297251 HORSE CREEK NEAR LIMESTONE, FL.

LOCATION.--Lat 27° 21' 58", long 81° 58' 25" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.12, T.36 S., R.23 E., Hardee County, Hydrologic Unit 03100101, at bridge on State Highway 665, 4.5 mi west of Limestone, and 30.5 mi upstream from mouth.

DRAINAGE AREA.--130 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1965 to current year (crest stage only).

GAGE.--Crest stage partial record gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--The annual maximum discharge data for the 1994 water year is in error. The corrected discharge is 3,450 cfs.

## ANNUAL MAXIMUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Annual gage height (ft)	Maximum discharge (ft <sup>3</sup> /s)
Sept. 6	59.24	3,940

02297310 HORSE CREEK NEAR ARCADIA, FL.

LOCATION.--Lat 27° 11'57", long 81° 59'19" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.2, T.38 S., R.23 E., De Soto County, Hydrologic Unit 03100101, near center of span on upstream side of bridge on State Highway 72, 7.9 mi west of Arcadia, and 10 mi upstream from mouth.

DRAINAGE AREA.--218 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1950 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 10.96 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,460	34	15	62	70	394	25	34	7.3	61	361	1,010
2	1,280	31	15	57	78	413	24	52	7.2	46	338	982
3	1,140	30	14	52	76	382	22	73	6.9	38	330	829
4	993	30	14	49	73	322	21	95	7.2	40	527	739
5	861	31	14	46	71	263	19	90	7.4	44	701	749
6	731	42	14	43	69	213	18	77	10	48	1,140	1,760
7	607	60	13	39	67	175	17	70	11	39	1,370	3,230
8	502	60	13	37	63	144	17	66	12	42	1,470	3,690
9	415	62	12	35	59	119	17	61	10	39	1,060	4,660
10	345	57	12	34	54	101	16	56	10	37	798	4,750
11	292	52	12	32	50	86	15	50	9.7	43	655	4,250
12	247	49	12	31	46	75	18	44	9.0	67	640	3,640
13	211	46	11	29	43	66	21	e40	8.6	117	762	3,030
14	183	42	31	29	42	59	21	e36	14	161	2,020	2,490
15	161	39	53	29	111	53	19	e31	25	153	3,440	1,990
16	138	35	53	28	119	51	17	e26	34	139	3,200	1,520
17	120	31	161	27	103	55	16	e22	67	202	2,930	1,170
18	107	28	167	50	90	50	15	e20	66	170	3,590	966
19	94	28	168	84	82	53	14	16	43	170	4,050	828
20	83	29	165	68	78	65	13	14	29	349	4,140	718
21	73	28	179	57	75	76	13	13	22	528	4,020	637
22	65	26	197	54	70	80	12	12	18	494	3,930	599
23	59	24	200	51	65	77	12	11	15	435	3,390	525
24	52	22	188	48	59	69	12	10	15	389	2,850	440
25	47	21	165	46	237	60	11	9.3	21	354	2,450	367
26	43	21	141	44	486	52	11	8.7	26	422	2,160	548
27	39	20	120	43	461	45	11	8.4	39	458	1,840	1,720
28	37	19	104	40	396	39	11	7.9	40	404	1,540	2,100
29	40	17	91	38	364	35	10	8.0	41	436	1,240	1,810
30	44	16	80	37	---	31	11	7.7	52	446	1,000	2,160
31	39	---	70	40	---	28	---	7.9	---	415	885	---
TOTAL	10,508	1,030	2,504	1,359	3,657	3,731	479	1,076.9	683.3	6,786	58,827	53,907
MEAN	339	34.3	80.8	43.8	126	120	16.0	34.7	22.8	219	1,898	1,797
MAX	1,460	62	200	84	486	413	25	95	67	528	4,140	4,750
MIN	37	16	11	27	42	28	10	7.7	6.9	37	330	367
CFSM	1.55	0.16	0.37	0.20	0.58	0.55	0.07	0.16	0.10	1.00	8.70	8.24
IN.	1.79	0.18	0.43	0.23	0.62	0.64	0.08	0.18	0.12	1.16	10.04	9.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

	255	87.9	68.9	98.2	111	151	72.9	27.7	206	325	449	528
MEAN	255	87.9	68.9	98.2	111	151	72.9	27.7	206	325	449	528
MAX	1,335	978	962	725	1,096	1,254	557	338	1,854	1,742	1,898	1,797
(WY)	(1953)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1957)	(1982)	(1968)	(2004)	(2004)
MIN	5.11	2.58	2.25	3.17	3.31	1.06	0.30	0.10	0.18	2.29	20.7	21.9
(WY)	(1985)	(1962)	(1957)	(1974)	(1975)	(1975)	(1975)	(2000)	(1956)	(1956)	(1980)	(1984)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1951 - 2004

ANNUAL TOTAL	151,744.1	144,548.2	
ANNUAL MEAN	416	395	199
HIGHEST ANNUAL MEAN			514
LOWEST ANNUAL MEAN			38.4
HIGHEST DAILY MEAN	10,200	4,750	10,700
LOWEST DAILY MEAN	8.6	6.9	0.00
ANNUAL SEVEN-DAY MINIMUM	10	7.4	0.00
MAXIMUM PEAK FLOW		4,940	11,700
MAXIMUM PEAK STAGE		15.42	18.02
ANNUAL RUNOFF (CFSM)	1.91	1.81	0.912
ANNUAL RUNOFF (INCHES)	25.89	24.67	12.39
10 PERCENT EXCEEDS	1,210	1,150	535
50 PERCENT EXCEEDS	80	56	46
90 PERCENT EXCEEDS	21	12	3.6

e Estimated

02297320 HORSE CREEK NEAR NOCATEE, FL.

LOCATION.--Lat 27°09'31", long 81°57'58" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.24, T.38 S., R.23 E., De Soto County, Hydrologic Unit 03100101, at bridge on State Highway 761, 5.1 mi west of Nocatee, and 6.6 mi upstream from mouth.

DRAINAGE AREA.--231 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1978 to current year (crest stage only).

GAGE.--Crest stage partial record gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

## ANNUAL MAXIMUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Annual gage height (ft)	Maximum discharge (ft <sup>3</sup> /s)
Sept. 9	Unknown	>4940



## 02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL.

LOCATION.--Lat 27° 04'38", long 82° 00'27" (1927 North American datum), in SW $\frac{1}{4}$  sec.15, T.39 S., R.23 E., De Soto County, Hydrologic Unit 03100101, on RV campground fishing pier, 3.3 mi west of Fort Ogden, and 16.8 mi upstream from mouth.

DRAINAGE AREA.--1,780 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--November 1997 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.99 ft, Sept. 17, 2001; minimum, 2.55 ft below NGVD, Jan. 15, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.55 ft, Sept. 26; minimum, 1.78 ft below NGVD, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.26	1.37	1.32	-1.06	1.03	-0.46	1.37	-0.51	---	---	1.22	-0.46
2	2.32	1.42	1.28	-0.66	0.56	-0.80	1.52	-0.69	---	---	1.08	-0.54
3	2.32	1.37	1.87	-0.01	1.14	-0.57	1.14	-0.72	---	---	1.38	-0.72
4	2.41	1.23	1.98	0.09	1.57	-0.39	1.69	-0.66	---	---	1.59	-0.49
5	2.23	0.92	2.01	0.21	2.02	-0.25	2.01	-0.62	---	---	1.84	-0.36
6	2.29	0.88	1.90	0.02	1.58	-1.08	2.01	-0.71	---	---	2.01	-0.13
7	2.45	1.00	1.89	-0.11	0.75	-1.31	---	-1.78	---	---	1.67	-0.50
8	2.17	0.69	1.96	-0.42	1.46	-0.90	1.14	-1.22	---	---	1.41	-0.75
9	1.95	0.50	1.75	-0.84	1.63	-0.86	2.12	-0.31	---	---	1.50	-0.75
10	1.98	0.27	0.80	-1.13	2.05	-0.19	2.42	-0.70	---	---	1.28	-0.39
11	2.05	0.25	1.63	-0.95	2.15	-0.57	0.62	-1.44	---	---	1.37	-1.22
12	2.25	0.31	1.78	-0.67	1.74	-0.60	1.11	-0.78	---	---	1.85	-0.91
13	2.10	0.12	2.13	-0.42	1.52	-0.46	1.37	-0.50	---	---	1.32	-0.79
14	2.17	0.43	1.27	-0.94	2.16	0.32	1.59	-0.35	---	---	1.58	-1.21
15	2.10	-0.27	1.67	-0.43	0.95	-0.83	1.61	0.00	---	---	1.98	-1.07
16	1.12	-0.58	1.58	-0.29	1.68	-0.21	1.81	-0.43	---	---	1.65	-0.60
17	1.63	-0.13	1.61	-0.17	1.72	0.18	---	-0.63	---	---	2.03	-0.55
18	---	-0.44	2.11	0.50	1.76	-0.51	2.19	-0.06	---	---	1.47	-0.81
19	1.47	-0.37	2.71	0.97	---	-0.43	---	---	---	---	1.75	-0.54
20	1.69	-0.50	1.88	-0.30	1.50	-0.68	---	---	---	---	1.50	-0.55
21	1.86	-0.06	1.84	-0.20	---	-1.19	---	---	---	---	1.61	-0.43
22	1.81	0.02	2.12	-0.48	1.30	-1.17	---	---	---	---	1.47	-0.43
23	2.06	0.28	2.33	-0.31	2.04	-0.71	---	---	---	---	0.47	-1.29
24	1.81	-0.20	2.58	-0.17	2.47	-0.39	---	---	---	---	0.49	-1.21
25	1.83	-0.57	2.71	-0.19	2.13	-0.75	---	---	---	---	1.28	-1.11
26	1.89	-0.60	2.57	-0.34	1.56	-1.06	---	---	---	---	1.12	-0.91
27	2.27	-0.24	2.55	-0.20	1.33	-0.84	---	---	0.50	-0.10	1.38	-1.01
28	2.65	0.29	2.44	0.05	1.30	-0.55	---	---	0.96	-0.93	1.11	-0.70
29	0.99	-0.69	0.13	-1.69	1.55	-0.12	---	---	1.24	-0.88	1.20	-0.77
30	1.74	-1.11	0.83	-0.77	1.73	0.14	---	---	---	---	1.55	-1.08
31	0.95	-1.26	---	---	1.44	-0.06	---	---	---	---	1.43	-0.50
MAX	---	1.42	2.71	0.97	---	0.32	---	---	---	---	2.03	-0.13
MIN	---	-1.26	0.13	-1.69	---	-1.31	---	---	---	---	0.47	-1.29

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.88	-0.19	1.61	-0.51	2.19	-0.36	2.22	0.69	---	---	---	---
2	1.32	-0.77	2.02	0.10	2.26	0.57	2.35	-0.61	---	---	---	---
3	1.59	-0.53	2.10	-0.32	2.29	-0.52	2.47	-0.66	---	---	---	---
4	1.52	-0.38	1.31	-0.26	2.33	-0.68	2.29	-0.52	---	---	1.93	0.96
5	1.57	-0.34	1.56	-0.91	2.45	-0.58	2.17	-0.56	1.93	0.50	4.78	---
6	1.77	-0.47	1.88	-0.82	2.18	-0.46	1.94	-0.47	2.07	0.65	5.22	4.41
7	2.00	-0.51	1.86	-0.72	1.87	-0.55	1.58	-0.48	2.00	0.81	3.17	2.50
8	2.36	-0.44	1.95	-0.78	1.66	-0.53	1.45	-0.25	2.17	0.89	2.94	2.71
9	2.26	-0.44	2.02	-0.75	1.46	-0.59	1.38	-0.01	1.77	0.44	3.27	3.06
10	1.93	-0.54	1.60	-0.67	1.57	-0.19	1.54	-0.45	1.63	0.25	---	---
11	2.20	-0.84	1.67	-0.66	1.65	0.10	1.66	-0.25	2.05	0.27	4.85	4.78
12	1.68	-0.46	1.57	-0.57	1.65	-0.13	1.34	-0.49	2.58	1.36	4.88	4.78
13	1.93	0.18	1.24	-0.38	1.70	-0.27	1.89	-0.31	3.03	0.59	4.57	4.50
14	0.78	-1.15	1.26	-0.41	1.92	-0.16	2.01	-0.44	2.71	1.33	4.19	4.12
15	0.24	-1.48	1.33	-0.45	2.06	-0.38	2.07	-0.53	2.33	0.70	4.43	3.95
16	0.63	-1.13	1.27	-0.86	1.96	---	2.13	---	2.45	0.76	3.88	3.56
17	0.75	-1.04	1.31	-0.69	1.80	-0.65	2.35	-0.54	2.45	1.23	3.37	3.05
18	0.82	-0.99	1.47	-0.09	1.94	-0.73	2.51	-0.31	2.66	1.64	3.21	2.69
19	1.22	-0.52	1.71	-0.84	2.21	-0.55	2.37	-0.12	2.66	1.97	---	---
20	1.44	-1.04	1.74	-0.66	2.16	-0.44	1.95	-0.12	---	---	2.66	2.08
21	---	---	1.55	-0.78	2.16	-0.50	1.70	-0.25	---	---	2.32	1.85
22	1.82	-0.61	1.87	-0.79	2.07	-0.36	1.48	-0.24	---	---	2.67	1.85
23	1.38	-0.86	1.91	-0.62	1.90	-0.51	1.46	-0.17	2.89	2.20	2.59	1.75
24	1.58	-1.06	1.56	-0.64	1.44	-0.26	1.65	-0.04	---	---	2.53	1.65
25	1.58	-0.76	1.06	-0.66	1.41	-0.28	---	---	---	---	2.42	1.47
26	1.69	-0.74	1.25	-0.64	1.42	-0.14	---	---	---	---	5.55	---
27	1.40	-0.49	---	---	1.68	-0.46	---	---	3.01	---	3.70	2.77
28	0.98	-1.20	1.44	-0.36	1.67	-0.53	---	---	2.89	2.03	3.20	2.68
29	0.99	-0.95	1.45	-0.22	1.99	-0.74	---	---	2.89	1.94	3.21	2.79
30	1.43	-0.75	1.84	-0.02	2.02	-0.69	---	---	---	---	3.42	3.00
31	---	---	2.04	-0.24	---	---	---	---	---	---	---	---
MAX	---	---	---	---	2.45	---	---	---	---	---	---	---
MIN	---	---	---	---	1.41	---	---	---	---	---	---	---

## 02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1997 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 1.0 ft below the surface and 1.0 ft above the bottom.

REMARKS.--Records fair. Maximums and minimums may have been exceeded during periods of missing record.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 31,800 microsiemens, June 5, 2000; bottom sensor maximum, 32,800 microsiemens, June 5, 2000; top sensor minimum, 62 microsiemens, Mar. 24, 1998; bottom sensor minimum, 64 microsiemens, Mar. 24, 1998.

TEMPERATURE.--Top sensor maximum, 34.1°C, Aug. 17, 1998, Aug. 13, 1999; bottom sensor maximum, 33.5°C, July 27, 28 1998; top sensor minimum, 11.6°C, Jan. 25, 2003; bottom sensor minimum, 11.7°C, Jan. 5, 2001, Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 11,600 microsiemens, June 5; bottom sensor maximum, 11,400 microsiemens, June 5; top sensor minimum, 130 microsiemens, Sept. 12; bottom sensor minimum, 131 microsiemens, Sept. 13.

TEMPERATURE.--Top sensor maximum, 33.3°C, June 26; bottom sensor maximum, 33.1°C, July 6; top sensor minimum, 12.6°C, Dec. 21, 22; bottom sensor minimum, 12.7°C, Dec. 21, 22.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT BELOW SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	MIN	NOVEMBER	MIN	DECEMBER	MIN	JANUARY	MIN	FEBRUARY	MIN	MARCH	MIN	MAX	MIN	MAX	MIN
1	202	197	421	411	518	504	406	392	509	498	401	390				
2	197	191	418	407	515	483	422	400	503	490	395	381				
3	194	191	424	410	510	468	423	415	491	453	383	374				
4	198	194	444	418	655	471	451	416	454	432	383	371				
5	204	198	442	425	1,250	490	500	422	436	420	387	381				
6	210	203	441	431	580	500	520	423	432	416	402	385				
7	219	210	445	438	551	502	446	426	432	418	413	400				
8	229	219	459	437	605	505	460	436	435	419	437	413				
9	242	229	462	442	738	504	1,360	441	444	433	446	437				
10	257	242	451	440	1,590	498	3,490	446	462	440	455	441				
11	271	257	452	440	1,700	493	487	450	477	461	475	453				
12	281	270	453	432	904	498	510	460	488	476	475	464				
13	296	280	449	433	731	509	2,480	466	498	486	477	469				
14	308	296	450	435	2,150	490	515	471	839	495	487	474				
15	316	307	450	438	497	473	507	478	607	499	514	484				
16	323	313	449	438	478	459	593	485	509	500	523	491				
17	326	322	450	437	460	405	1,370	491	520	507	526	488				
18	325	323	474	442	424	401	2,020	478	530	518	510	489				
19	324	321	1,630	444	423	397	1,460	477	532	517	522	377				
20	325	320	458	443	398	388	496	479	531	521	406	376				
21	330	323	476	454	390	383	499	491	541	524	413	402				
22	339	327	492	459	386	373	505	490	---	---	422	411				
23	347	337	589	464	380	366	505	491	---	---	417	389				
24	353	345	1,240	470	381	363	502	490	---	---	392	375				
25	362	351	2,040	476	370	359	510	485	---	---	377	369				
26	366	357	1,620	479	370	362	505	481	---	---	373	364				
27	378	364	1,540	482	377	367	497	484	420	401	375	367				
28	635	371	1,160	489	380	372	491	481	401	391	378	368				
29	446	383	511	489	388	376	499	481	407	401	396	375				
30	424	400	518	500	394	381	494	486	---	---	421	390				
31	421	413	---	---	398	387	511	494	---	---	1,220	403				
MONTH	635	191	2,040	407	2,150	359	3,490	392	---	---	1,220	364				



02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	199	192	412	401	491	476	407	393	493	479	354	350				
2	192	186	409	396	493	457	419	401	486	469	352	346				
3	190	187	416	402	524	455	423	414	471	429	346	341				
4	194	189	422	409	685	467	444	416	431	410	349	339				
5	199	194	428	403	1,400	482	491	416	412	398	353	348				
6	206	195	435	407	571	491	507	416	408	393	365	352				
7	216	203	434	418	543	493	438	419	407	394	375	365				
8	228	215	439	414	597	497	448	430	406	394	395	373				
9	239	226	440	410	774	495	1,470	434	414	404	403	395				
10	252	238	436	411	1,790	488	3,750	441	423	409	413	400				
11	266	252	426	411	2,020	482	478	448	436	423	423	410				
12	275	266	428	403	932	487	507	456	445	436	434	421				
13	291	275	430	402	738	497	538	460	453	444	439	427				
14	301	290	432	415	2,760	480	538	497	847	450	450	435				
15	310	301	434	415	487	462	530	503	641	454	483	448				
16	317	307	436	418	472	456	618	505	458	451	491	454				
17	323	314	438	418	456	406	1,520	510	467	454	497	452				
18	323	316	437	414	422	403	2,120	490	477	462	481	452				
19	322	314	1,530	419	421	396	1,650	490	478	458	498	359				
20	325	315	442	422	396	388	508	488	474	462	386	359				
21	325	317	447	427	391	383	506	497	478	464	393	383				
22	333	321	462	438	384	375	513	497	---	---	403	393				
23	341	330	591	448	378	368	509	495	---	---	402	379				
24	347	339	1,260	450	383	365	504	491	---	---	381	366				
25	355	345	2,040	459	368	360	506	485	---	---	370	361				
26	363	349	1,720	459	368	363	503	479	---	---	368	359				
27	369	356	1,660	457	377	367	492	478	365	354	369	361				
28	647	332	1,200	462	380	373	483	473	354	347	374	363				
29	430	368	487	462	386	376	488	471	358	354	393	373				
30	417	391	491	475	390	383	482	473	---	---	423	388				
31	414	405	---	---	394	387	498	481	---	---	1,310	403				
MONTH	647	186	2,040	396	2,760	360	3,750	393	---	---	1,310	339				
DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	2,060	430	4,330	600	7,240	571	520	443	---	---	222	212				
2	504	432	3,240	519	8,810	602	514	377	---	---	218	214				
3	715	432	573	344	8,900	660	537	375	---	---	220	211				
4	711	435	422	347	9,720	745	457	397	---	---	213	204				
5	723	451	432	356	11,400	873	461	432	310	291	205	199				
6	1,170	447	364	326	8,440	1,040	459	416	299	269	208	197				
7	2,090	446	375	335	5,000	889	416	385	288	268	210	192				
8	5,160	446	402	375	3,580	753	441	384	271	241	197	172				
9	4,840	468	418	402	2,330	635	500	432	288	261	176	152				
10	2,930	514	432	418	2,230	637	508	491	293	276	168	141				
11	4,500	500	442	417	1,650	547	505	438	296	288	146	136				
12	2,780	558	454	420	731	521	446	414	294	285	139	134				
13	1,910	547	470	446	613	489	460	434	301	262	144	131				
14	903	526	486	458	573	414	454	434	268	244	150	141				
15	627	534	483	460	456	394	449	400	247	232	158	148				
16	590	551	497	465	455	390	415	397	235	213	164	149				
17	591	540	507	488	483	449	446	392	222	210	173	163				
18	585	535	514	498	499	457	473	427	210	199	179	170				
19	630	537	530	487	523	488	453	437	202	199	186	178				
20	732	542	592	511	520	480	456	436	200	194	189	183				
21	2,320	544	618	519	533	471	466	408	197	194	192	187				
22	2,260	550	976	519	521	478	408	362	197	192	198	188				
23	1,150	552	1,380	528	528	476	371	360	204	187	205	195				
24	1,910	552	932	537	520	507	368	358	199	193	208	204				
25	1,950	563	1,200	542	525	485	---	---	203	192	211	207				
26	2,600	570	1,200	553	486	443	---	---	211	203	218	203				
27	2,000	584	2,020	548	502	443	---	---	216	208	204	194				
28	1,850	574	2,440	549	494	470	---	---	220	216	195	168				
29	2,480	587	2,330	532	500	462	---	---	225	220	169	156				
30	3,960	590	4,160	540	513	452	---	---	228	224	157	150				
31	---	---	5,730	546	---	---	---	---	230	221	---	---				
MONTH	5,160	430	5,730	326	11,400	390	---	---	---	---	222	131				

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL.—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.4	25.0	25.2	24.3	19.3	18.2	19.9	18.1	18.2	15.7	18.8	17.7
2	25.0	24.7	25.2	23.8	19.2	17.9	20.3	18.6	18.6	16.6	19.5	18.2
3	25.3	24.4	25.0	24.0	19.9	17.9	20.5	19.1	19.3	17.1	20.2	19.0
4	25.8	24.9	25.1	24.2	20.4	18.2	21.2	19.6	21.0	17.6	22.4	19.7
5	26.2	25.0	25.8	24.5	20.0	19.2	21.5	20.1	20.6	18.6	22.7	20.6
6	26.5	24.8	26.2	25.0	19.6	18.0	22.1	20.5	21.8	19.8	23.4	21.4
7	26.6	25.6	26.8	25.2	18.0	17.0	21.7	19.7	21.2	19.9	24.6	22.4
8	26.8	25.3	27.1	25.5	18.1	16.4	19.7	17.8	19.9	18.1	24.5	22.9
9	27.1	26.0	26.5	25.5	18.7	17.0	19.4	18.1	19.4	17.3	22.9	21.3
10	27.0	26.1	26.2	25.0	18.9	18.0	19.3	16.7	20.8	18.1	21.9	20.3
11	27.2	26.1	25.9	24.7	18.7	18.0	16.7	15.3	21.6	19.2	21.6	19.2
12	27.6	26.3	25.9	24.4	18.6	17.2	16.9	15.2	22.3	20.1	23.8	19.1
13	28.1	26.8	25.4	24.5	18.5	17.6	16.9	15.6	22.7	21.3	22.8	19.6
14	28.1	27.2	24.8	23.4	18.6	18.2	16.7	15.6	22.2	21.3	21.5	20.1
15	27.7	27.0	24.0	22.8	18.2	17.5	16.8	15.5	22.5	21.3	22.1	20.4
16	27.0	25.8	23.5	22.6	17.9	17.2	17.3	15.7	21.6	20.1	22.1	21.3
17	26.2	25.7	23.2	22.3	18.0	17.3	17.2	15.6	20.1	18.4	23.8	21.5
18	26.1	25.4	23.9	22.5	17.3	16.2	17.2	16.4	18.4	16.9	25.0	21.7
19	25.9	25.2	23.6	22.6	16.3	15.2	18.4	16.8	18.5	16.3	24.4	22.1
20	26.3	24.9	22.7	21.6	15.2	14.0	18.8	17.1	17.9	16.5	24.0	22.2
21	26.2	24.7	22.3	20.9	14.0	12.6	18.5	16.7	18.8	16.9	24.6	22.2
22	26.0	24.6	21.9	20.6	14.8	12.6	17.6	16.3	---	---	24.7	22.6
23	26.2	24.5	22.1	20.9	15.3	13.6	17.0	15.7	---	---	22.9	21.3
24	26.0	24.4	22.5	21.2	16.2	14.6	16.9	15.1	---	---	21.8	20.8
25	25.8	24.2	22.7	22.0	16.1	15.3	17.0	15.3	---	---	22.1	20.2
26	26.2	24.7	23.4	22.1	16.6	15.3	18.1	16.2	---	---	22.7	20.5
27	26.7	25.3	23.5	22.6	17.0	15.7	18.7	17.5	19.9	18.4	24.3	21.1
28	26.3	25.7	23.7	22.7	17.3	16.1	18.5	17.6	18.5	17.2	24.0	21.4
29	25.7	25.1	23.2	19.6	17.8	16.6	18.3	16.4	18.2	16.8	24.7	22.2
30	25.3	24.4	19.6	18.2	18.4	17.0	17.4	16.2	---	---	24.7	22.3
31	25.4	24.2	---	---	19.0	17.6	16.6	15.9	---	---	24.5	22.7
MONTH	28.1	24.2	27.1	18.2	20.4	12.6	22.1	15.1	---	---	25.0	17.7
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24.3	23.0	28.4	26.5	31.7	29.6	31.8	24.3	---	---	30.3	29.3
2	23.6	22.1	28.7	27.2	31.6	29.6	31.6	24.9	---	---	29.9	28.7
3	23.6	22.0	28.2	25.2	31.1	29.4	30.7	23.7	---	---	30.1	28.8
4	23.4	21.8	26.8	24.6	30.2	29.1	30.9	24.3	---	---	29.6	27.8
5	23.5	21.7	26.7	24.5	29.8	24.4	32.5	24.4	28.1	26.8	28.0	26.5
6	23.6	21.5	26.6	24.0	30.5	22.2	33.0	24.5	28.3	27.1	27.2	26.2
7	23.9	22.3	28.0	24.1	31.3	21.5	30.8	29.4	28.5	27.6	27.2	26.6
8	24.6	22.7	27.6	24.4	29.3	22.9	30.7	28.7	28.1	27.2	27.9	26.7
9	24.6	23.3	27.7	24.9	30.5	23.3	31.3	29.1	28.1	26.9	28.8	27.4
10	26.3	23.7	26.0	25.3	29.5	23.0	31.9	30.1	28.5	27.4	29.3	27.9
11	25.9	24.2	26.4	25.0	29.8	23.4	31.9	29.6	29.2	27.7	29.6	28.4
12	25.3	23.5	27.1	24.9	30.2	24.2	31.5	28.8	29.1	26.7	29.8	28.8
13	23.7	22.9	27.5	25.2	30.8	24.2	31.8	29.6	28.4	26.6	29.5	28.9
14	22.9	21.8	27.9	25.7	31.4	24.3	32.0	29.5	27.8	25.6	29.1	28.5
15	23.5	20.8	28.0	26.2	31.4	24.4	32.1	29.8	28.5	25.4	28.7	28.2
16	23.8	21.1	27.8	26.6	31.7	24.6	30.5	29.0	29.0	25.8	29.5	28.0
17	24.0	21.8	28.8	26.5	31.9	24.4	29.6	28.5	29.0	27.9	30.2	28.7
18	24.4	22.0	28.8	26.8	31.7	25.0	29.9	25.7	29.7	28.1	30.5	29.1
19	24.5	22.6	28.8	26.9	31.6	25.6	29.0	25.2	30.2	28.5	30.1	29.0
20	25.2	22.9	29.4	26.9	31.8	25.1	27.7	24.0	30.7	29.1	29.3	28.0
21	25.1	23.6	29.6	27.2	31.9	24.8	27.6	23.4	30.8	29.7	28.0	27.1
22	25.9	23.7	29.8	27.1	32.2	24.9	30.5	23.2	30.7	29.3	27.6	26.7
23	27.0	24.6	29.5	27.2	32.8	24.0	32.3	23.2	30.1	29.2	27.8	26.5
24	28.1	24.9	30.4	27.4	31.7	23.5	31.6	24.0	30.3	28.9	27.9	26.6
25	27.7	25.9	31.3	27.4	32.8	24.2	---	---	29.4	28.7	27.4	26.6
26	28.4	26.1	31.0	27.9	33.3	24.4	---	---	29.9	28.4	26.8	25.8
27	27.3	26.4	30.9	28.3	31.5	23.8	---	---	29.9	28.8	27.3	25.6
28	28.1	25.4	30.9	28.6	30.8	24.2	---	---	30.5	28.7	27.6	26.3
29	26.8	25.9	30.7	29.2	31.2	23.2	---	---	30.8	29.2	28.3	26.9
30	27.7	25.8	31.0	29.5	30.6	23.1	---	---	30.8	29.5	29.1	27.6
31	---	---	31.6	29.5	---	---	---	---	31.2	29.7	---	---
MONTH	28.4	20.8	31.6	24.0	33.3	21.5	---	---	---	---	30.5	25.6

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL.—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.5	25.1	25.3	24.4	19.4	18.3	20.0	18.3	18.0	15.8	19.0	17.8
2	25.1	24.8	25.3	23.9	19.3	18.0	20.4	18.7	18.3	16.7	19.6	18.3
3	25.4	24.5	25.2	24.1	20.0	18.0	20.6	19.3	19.1	17.2	20.4	19.1
4	25.9	25.0	25.2	24.3	20.4	18.3	21.3	19.8	20.6	17.8	22.3	19.8
5	26.3	25.4	25.9	24.6	20.2	19.3	21.7	20.3	20.8	18.7	22.5	20.7
6	26.6	25.5	26.2	25.1	19.7	18.1	22.3	20.6	22.0	19.9	23.4	21.5
7	26.7	25.7	26.9	25.3	18.2	17.1	21.8	19.8	21.4	20.0	24.6	22.5
8	26.9	25.2	27.2	25.6	18.2	16.6	19.8	17.9	20.0	18.2	24.6	23.1
9	27.2	26.1	26.6	25.6	18.9	17.2	19.6	18.3	19.5	17.4	23.1	21.4
10	26.9	26.2	26.3	25.1	19.1	18.1	19.5	16.9	21.0	18.2	22.0	20.4
11	27.2	26.2	26.0	24.8	18.9	18.2	16.9	15.4	21.7	19.3	21.7	19.4
12	27.6	26.3	25.9	24.5	18.7	17.4	17.0	15.4	22.4	20.3	23.4	19.3
13	27.9	26.8	25.5	24.6	18.7	17.8	17.1	15.8	22.8	21.4	22.8	19.7
14	28.0	27.3	24.9	23.5	18.8	18.3	16.9	15.7	22.4	21.5	21.6	20.2
15	27.8	27.1	24.1	22.9	18.4	17.7	16.9	15.7	22.4	21.5	22.2	20.6
16	27.1	25.9	23.6	22.7	18.0	17.3	17.3	15.8	21.7	20.2	22.2	21.4
17	26.2	25.8	23.3	22.4	18.2	17.5	17.3	15.8	20.3	18.6	23.9	21.6
18	26.2	25.5	23.9	22.6	17.5	16.3	17.4	16.6	18.6	17.0	25.0	21.9
19	26.0	25.3	23.7	22.7	16.5	15.3	18.4	16.9	18.6	16.4	24.4	22.2
20	26.4	25.0	22.8	21.7	15.3	14.1	18.9	17.3	18.0	16.6	24.2	22.4
21	26.3	24.8	22.5	20.9	14.2	12.7	18.6	16.9	18.9	17.0	24.7	22.4
22	26.1	24.7	22.0	20.7	14.6	12.7	17.7	16.4	---	---	24.9	22.8
23	26.3	24.6	22.1	21.0	15.4	13.8	17.1	15.8	---	---	23.1	21.5
24	26.1	24.5	22.6	21.3	16.2	14.7	17.0	15.2	---	---	22.0	20.9
25	25.9	24.3	22.8	22.0	16.2	15.5	17.1	15.4	---	---	22.2	20.4
26	26.3	24.8	23.5	22.2	16.7	15.4	18.3	16.3	---	---	22.9	20.7
27	26.7	25.4	23.6	22.7	17.1	15.8	18.8	17.6	20.0	18.5	24.3	21.2
28	26.4	25.8	23.8	22.8	17.4	16.3	18.6	17.8	18.6	17.3	24.0	21.5
29	25.8	25.2	23.3	19.8	17.9	16.7	18.4	16.5	18.4	16.9	24.5	22.3
30	25.3	24.5	19.8	18.2	18.5	17.1	17.5	16.4	---	---	24.8	22.4
31	25.5	24.2	---	---	19.1	17.7	16.7	16.0	---	---	24.5	22.9
MONTH	28.0	24.2	27.2	18.2	20.4	12.7	22.3	15.2	---	---	25.0	17.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24.4	23.2	28.5	26.6	31.7	29.7	31.0	28.3	---	---	30.4	29.5
2	23.8	22.2	28.9	27.3	31.7	29.7	31.3	29.3	---	---	30.1	28.9
3	23.8	22.2	28.4	25.3	31.3	29.6	30.6	28.7	---	---	30.3	29.0
4	23.5	21.9	26.9	24.8	30.4	29.3	30.7	28.9	---	---	29.8	28.2
5	23.6	21.9	26.6	24.7	30.0	28.4	32.5	29.8	28.3	27.0	28.2	26.7
6	23.8	21.7	26.2	24.2	30.0	28.1	33.1	30.4	28.5	27.3	27.4	26.4
7	24.1	22.4	27.0	24.3	30.8	28.2	30.9	29.6	28.7	27.8	27.4	26.8
8	24.7	22.8	27.7	24.6	30.0	28.2	30.8	28.8	28.3	27.4	28.1	26.9
9	24.8	23.4	27.8	25.1	29.8	28.1	31.4	29.3	28.3	27.1	29.0	27.5
10	26.1	23.9	26.2	25.5	29.6	28.0	32.1	30.3	28.7	27.6	29.4	28.1
11	26.0	24.3	26.5	25.1	29.8	28.3	32.1	29.8	29.3	27.9	29.7	28.6
12	25.4	23.7	26.9	25.1	30.1	28.2	31.0	29.0	29.2	28.1	30.0	28.9
13	23.8	23.0	27.5	25.3	30.9	29.2	31.4	29.8	28.7	26.9	29.6	29.1
14	23.1	21.9	28.0	25.9	31.2	29.0	31.4	29.6	27.9	26.4	29.3	28.7
15	23.6	21.0	28.2	26.4	30.4	28.6	31.4	29.9	28.7	26.9	28.9	28.3
16	23.9	21.3	28.0	26.8	30.7	28.6	30.4	29.2	29.1	27.7	29.7	28.2
17	24.1	21.9	28.8	26.6	31.4	29.0	29.7	28.7	29.2	28.1	30.4	28.9
18	24.6	22.2	28.9	26.9	30.8	29.3	30.0	28.5	29.9	28.3	30.7	29.2
19	24.7	22.7	28.9	27.1	31.5	29.7	29.2	28.4	30.3	28.7	30.3	29.2
20	25.4	23.1	29.4	27.1	31.7	30.1	28.4	26.9	30.8	29.3	29.4	28.1
21	25.2	23.7	29.6	27.4	31.8	30.0	27.4	26.5	31.0	29.9	28.1	27.3
22	25.9	23.9	29.7	27.3	32.3	29.9	28.4	26.3	30.8	29.5	27.7	26.9
23	27.0	24.7	29.4	27.4	32.9	29.9	29.3	27.4	30.3	29.4	27.9	26.7
24	28.1	25.0	29.9	27.5	32.2	30.3	30.0	28.4	30.4	29.0	28.1	26.8
25	27.7	26.0	30.5	27.5	31.8	29.7	---	---	29.6	28.8	27.5	26.8
26	28.3	26.3	30.2	28.0	32.2	30.0	---	---	30.0	28.6	27.0	26.0
27	27.4	26.5	30.8	28.4	31.6	29.8	---	---	30.1	29.0	27.5	25.7
28	28.2	25.5	31.0	28.8	30.6	29.2	---	---	30.6	28.8	27.7	26.4
29	26.9	26.1	30.9	29.4	30.5	28.8	---	---	31.0	29.4	28.5	27.0
30	27.8	26.0	31.2	29.6	30.1	28.3	---	---	31.0	29.7	29.2	27.8
31	---	---	31.7	29.7	---	---	---	---	31.3	29.9	---	---
MONTH	28.3	21.0	31.7	24.2	32.9	28.0	---	---	---	---	30.7	25.7

## 02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL.

LOCATION.--Lat 26° 59'14", long 81° 59'40" (1927 North American datum), in NE $\frac{1}{4}$  sec.22, T.40 S., R.23 E., Charlotte County, Hydrologic Unit 03100101, on right bank, on private dock on Voyageur Road, 0.6 mi southeast of Harbour Heights, and 10.2 mi upstream from mouth.

DRAINAGE AREA.--1,870 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--August 1996 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only). Records of gage heights prior to October 1996 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.64 ft, Sept. 14, 2001; minimum, 2.46 ft below NGVD, Jan. 15, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.36 ft, Sept. 26; minimum, 1.78 ft below NGVD, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	1.28	-0.46	---	---	1.26	-0.57
2	---	---	---	---	---	---	1.42	-0.65	---	---	1.43	-0.66
3	---	---	---	---	---	---	1.07	-0.69	---	---	0.91	-0.87
4	---	---	---	---	1.35	-0.30	1.65	-0.64	---	---	1.61	-0.56
5	---	---	---	---	1.98	-0.16	1.93	-0.59	---	---	1.86	-0.33
6	---	---	---	---	1.55	-0.95	1.93	-0.68	---	---	2.03	-0.12
7	---	---	---	---	0.73	-1.19	---	-1.78	---	---	1.68	-0.45
8	---	---	---	---	1.43	-0.82	0.71	-1.21	---	---	1.43	-0.66
9	---	---	---	---	1.59	-0.82	2.04	-0.28	---	---	1.52	-0.57
10	---	---	---	---	2.00	-0.20	2.46	-0.62	---	---	1.34	-0.17
11	---	---	---	---	2.11	-0.47	0.61	-1.39	---	---	1.39	-1.13
12	---	---	---	---	1.68	-0.54	0.99	-0.72	---	---	1.91	-0.78
13	---	---	---	---	1.48	-0.39	1.28	-0.42	---	---	1.41	-0.65
14	---	---	---	---	2.09	0.37	1.51	-0.26	---	---	1.63	-1.06
15	---	---	---	---	0.84	-0.81	1.54	0.06	---	---	2.02	-0.91
16	---	---	---	---	1.61	-0.20	1.79	-0.38	---	---	2.06	-0.47
17	---	---	---	---	1.70	0.17	2.17	-0.57	---	---	1.21	-0.38
18	---	---	---	---	1.68	-0.61	2.42	-0.06	---	---	1.51	-0.76
19	---	---	---	---	---	-0.47	1.55	-0.40	---	---	1.79	-0.46
20	---	---	---	---	1.42	-0.80	1.96	-1.00	---	---	1.51	-0.45
21	---	---	---	---	1.06	-1.41	1.69	-0.99	---	---	1.65	-0.27
22	---	---	---	---	1.29	-1.38	1.81	-0.90	---	---	1.49	-0.27
23	---	---	---	---	1.97	-0.85	1.66	-1.02	---	---	0.52	-1.17
24	---	---	---	---	2.41	-0.51	---	---	2.09	0.04	0.48	-1.10
25	---	---	---	---	2.06	-0.83	---	---	2.10	-0.05	1.34	-1.00
26	---	---	---	---	1.53	-1.10	---	---	2.02	0.24	1.13	-0.78
27	---	---	---	---	1.27	-0.83	---	---	0.53	-0.09	1.44	-0.86
28	---	---	---	---	1.19	-0.53	---	---	0.90	-1.40	1.17	-0.52
29	---	---	---	---	1.48	-0.10	---	---	1.27	-1.23	1.38	-0.61
30	---	---	---	---	1.66	0.19	---	---	---	---	1.55	-0.91
31	---	---	---	---	1.35	-0.02	---	---	---	---	1.94	-0.31
MAX	---	---	---	---	---	---	---	---	---	---	2.06	-0.12
MIN	---	---	---	---	---	---	---	---	---	---	0.48	-1.17



## 02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.26	0.06	1.66	-0.31	2.31	-0.22	2.29	-0.61	2.76	0.81	1.78	0.22
2	1.37	-0.52	2.07	0.22	2.37	-0.39	2.33	---	2.12	0.01	1.64	0.00
3	1.65	-0.28	2.18	-0.29	2.44	---	2.42	-0.69	2.24	-0.06	1.67	-0.20
4	1.61	-0.12	1.35	-0.99	2.48	-0.61	2.30	-0.53	2.06	0.09	1.37	-0.43
5	1.66	-0.25	1.59	-0.27	2.58	-0.50	2.19	-0.55	1.91	0.38	4.59	---
6	1.85	-0.32	1.92	-0.99	2.28	-0.38	2.02	-0.45	2.05	0.54	5.02	2.02
7	2.08	0.30	1.91	-0.85	1.96	-0.42	1.59	-0.41	1.97	0.34	---	---
8	2.47	-0.24	2.02	-0.79	1.76	-0.37	1.42	-0.13	2.12	0.26	---	---
9	2.34	-0.27	2.06	-0.68	1.51	-0.41	1.40	0.14	1.64	-0.27	---	0.59
10	---	---	1.68	-0.57	1.60	0.01	1.50	-0.39	1.55	-0.40	1.95	0.33
11	2.37	-0.64	1.70	-0.49	1.67	0.28	1.67	-0.36	1.97	-0.27	2.05	0.37
12	1.89	-0.23	1.60	-0.41	1.70	0.04	1.38	-0.42	2.47	0.11	2.25	0.56
13	1.71	---	1.29	-0.19	1.73	-0.15	1.86	-0.27	3.14	0.91	2.34	0.69
14	0.81	-0.93	1.17	-0.25	1.94	-0.16	1.99	-0.44	2.63	-0.17	2.37	0.81
15	0.30	-1.29	1.36	-0.26	2.10	-0.33	1.81	-0.51	2.25	-0.34	3.54	1.40
16	0.73	-0.93	1.28	-0.68	2.00	-0.63	2.16	-0.52	2.24	0.52	2.72	0.87
17	0.81	-0.83	1.34	-0.51	1.85	-0.71	2.38	-0.27	2.10	-0.20	2.35	0.77
18	0.86	-0.80	1.51	-0.67	1.99	-0.56	2.17	---	2.25	0.45	2.26	0.25
19	1.30	-0.85	1.77	-0.49	2.24	---	2.40	-0.12	2.11	0.15	2.03	-0.15
20	1.51	-0.66	1.80	0.55	2.20	-0.40	1.93	-0.11	1.93	0.37	1.91	-0.34
21	1.95	0.45	1.62	-0.64	2.20	-0.43	1.66	-0.30	2.08	0.25	0.98	-0.88
22	1.90	-0.43	1.94	-0.64	2.11	-0.24	1.41	-0.39	2.10	0.22	2.09	-0.23
23	1.47	-0.68	1.98	-0.47	1.95	-0.39	1.42	-0.29	2.30	0.07	2.10	-0.23
24	1.69	-0.87	1.65	-0.49	1.47	-0.09	1.60	-0.10	2.34	-0.17	2.17	-0.08
25	1.66	-0.57	1.14	-0.50	1.50	-0.10	1.65	-0.06	2.15	-0.17	2.14	0.09
26	1.72	-0.54	1.33	-0.46	1.46	0.04	1.80	-0.52	1.51	-0.11	5.36	---
27	1.51	-0.28	1.31	-0.28	1.70	-0.42	1.92	-0.74	2.47	-0.20	3.41	1.30
28	1.07	-1.01	1.45	-0.16	1.70	-0.41	1.99	-0.83	2.52	0.01	2.43	0.74
29	1.03	-0.74	1.49	-0.02	2.04	-0.66	2.16	-0.68	2.58	0.14	2.18	0.41
30	1.49	-0.57	1.90	0.18	2.10	-0.64	2.26	-0.46	2.52	0.17	2.16	0.32
31	---	---	2.12	-0.08	---	---	2.50	-0.22	2.41	0.28	---	---
MAX	---	---	2.18	0.55	2.58	---	2.50	---	3.14	0.91	---	---
MIN	---	---	1.14	-0.99	1.46	---	1.38	---	1.51	-0.40	---	---



02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT BELOW SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23,900	14,200	23,100	16,300	31,300	17,900	22,200	1,860	13,900	705	350	230
2	19,800	10,100	24,700	14,700	31,300	17,700	22,100	1,840	3,450	629	337	223
3	21,200	11,500	21,800	5,450	30,200	16,000	24,100	1,830	1,440	502	368	227
4	22,100	11,300	11,100	3,000	32,100	16,200	21,100	2,030	1,150	452	374	217
5	20,800	10,500	9,250	2,010	31,300	16,200	19,300	1,960	651	388	1,890	219
6	22,300	10,300	9,930	1,300	28,500	16,900	15,700	1,890	630	370	1,820	219
7	23,900	11,300	7,320	949	26,300	16,100	9,330	1,120	689	354	392	213
8	25,800	11,700	11,300	771	24,600	15,400	9,400	1,080	563	318	332	195
9	24,500	12,200	16,900	901	22,600	14,400	9,000	1,510	---	---	304	184
10	22,000	10,600	9,030	1,110	23,900	15,400	9,080	2,270	---	---	316	168
11	24,500	9,600	11,100	2,510	24,500	16,400	15,800	1,890	---	---	272	156
12	21,300	12,000	15,300	4,010	22,700	13,200	6,910	1,750	---	---	248	149
13	21,800	12,400	14,200	5,080	21,600	7,940	14,900	1,420	---	---	217	148
14	18,200	7,640	13,700	5,660	20,200	3,980	13,700	996	---	---	227	151
15	12,800	5,580	15,700	7,010	16,700	2,300	13,900	1,020	453	263	215	157
16	12,200	7,090	16,200	4,790	13,700	1,520	10,900	621	424	255	209	167
17	14,600	7,910	15,400	5,020	12,500	1,440	16,000	1,010	370	233	214	175
18	15,300	7,690	17,500	5,920	16,500	1,230	17,100	1,170	358	217	247	179
19	18,000	7,690	20,700	6,080	21,200	1,640	11,100	1,320	293	209	256	182
20	20,200	8,100	20,700	7,650	18,200	1,870	8,580	547	301	211	293	189
21	25,700	9,780	18,000	6,670	17,000	1,660	2,400	264	289	206	361	193
22	25,600	11,700	23,700	7,170	16,700	1,880	1,440	587	283	202	270	194
23	18,600	9,840	24,100	9,760	14,800	1,660	1,620	537	331	199	304	201
24	20,900	8,780	19,200	9,830	8,970	2,090	5,270	536	363	201	290	208
25	23,300	11,100	22,600	10,600	8,220	1,870	8,630	681	373	204	321	210
26	25,100	11,800	25,600	13,400	10,600	3,080	10,300	1,160	319	207	15,200	216
27	23,500	11,900	23,500	14,300	14,600	3,320	15,000	722	334	214	1,370	226
28	19,000	10,700	24,100	14,700	15,300	2,940	13,600	701	318	220	840	213
29	21,200	13,900	24,400	16,700	18,600	1,940	15,100	725	332	228	457	178
30	24,100	15,200	27,900	17,400	19,600	1,720	17,500	693	295	235	380	160
31	---	---	29,800	18,200	---	---	20,300	699	296	235	---	---
MONTH	25,800	5,580	29,800	771	32,100	1,230	24,100	264	---	---	15,200	148

## 02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	10,400	2,140	18,000	8,780	21,200	6,170	---	---	12,100	818
2	---	---	13,300	3,880	16,100	8,960	24,600	6,760	---	---	12,100	1,180
3	---	---	16,400	6,860	24,900	10,800	24,900	8,190	---	---	9,460	751
4	---	---	17,400	6,260	27,300	11,900	26,900	8,090	---	---	10,700	771
5	---	---	16,800	5,820	28,400	13,300	26,900	8,110	---	---	12,000	672
6	---	---	16,000	4,140	24,500	10,700	27,400	6,350	---	---	11,500	638
7	---	---	14,600	2,690	19,200	9,530	16,200	5,260	---	---	3,800	594
8	---	---	16,500	1,680	24,000	11,000	23,000	7,720	---	---	1,580	565
9	---	---	15,100	1,440	27,200	10,200	29,000	12,200	---	---	4,590	547
10	---	---	6,770	1,070	30,700	13,600	29,700	9,820	---	---	2,370	632
11	---	---	16,200	1,770	30,100	12,700	15,500	6,590	---	---	7,120	569
12	---	---	18,800	2,500	25,700	10,500	19,500	7,780	---	---	18,000	731
13	---	---	23,000	4,140	24,400	10,600	21,300	10,300	---	---	9,320	938
14	---	---	16,500	3,270	30,000	16,000	22,800	11,600	---	---	18,200	1,880
15	---	---	19,200	6,220	17,800	6,540	22,000	11,600	---	---	22,300	3,730
16	---	---	22,100	7,460	21,300	6,530	24,400	9,050	---	---	20,200	6,140
17	---	---	20,400	7,980	18,300	4,980	26,500	8,520	---	---	20,600	5,220
18	---	---	23,900	11,800	13,800	2,480	26,700	12,000	---	---	13,100	2,460
19	---	---	27,100	14,600	11,000	1,060	26,400	6,340	---	---	14,900	2,070
20	---	---	18,500	6,410	6,350	698	20,600	3,620	---	---	10,700	1,420
21	16,300	3,430	18,800	7,190	5,430	594	14,800	2,360	---	---	15,100	1,620
22	15,300	2,860	20,000	5,770	15,900	556	17,200	2,600	---	---	12,100	1,760
23	15,500	3,280	23,800	6,310	23,100	652	13,700	2,360	---	---	5,270	866
24	10,700	1,150	26,200	6,790	26,300	1,610	---	---	5,020	2,460	6,100	1,070
25	12,900	1,080	26,000	7,400	17,200	841	---	---	14,200	2,260	10,200	1,230
26	14,200	952	24,900	6,240	13,000	771	---	---	6,780	1,810	9,570	2,380
27	19,400	2,150	25,200	7,010	15,300	2,030	---	---	3,650	558	14,600	2,980
28	21,700	5,100	24,500	8,330	21,500	3,710	---	---	3,950	442	17,500	4,550
29	18,500	1,990	12,300	4,000	22,900	7,510	---	---	2,800	465	18,500	5,800
30	12,700	1,380	14,000	6,150	22,600	9,070	---	---	---	---	24,000	6,670
31	9,960	1,440	---	---	19,500	7,290	---	---	---	---	22,900	11,000
MONTH	---	---	27,100	1,070	30,700	556	---	---	---	---	24,000	547
DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24,100	14,400	24,500	16,700	29,700	16,100	21,200	1,610	13,300	606	312	284
2	20,200	10,300	25,600	14,700	30,700	16,000	23,900	1,580	3,930	549	311	262
3	20,800	11,900	23,800	5,760	30,500	14,800	23,200	1,600	1,480	430	323	252
4	21,600	12,300	13,200	2,180	31,200	14,900	20,500	1,720	954	419	364	231
5	20,600	10,800	11,400	1,700	30,600	15,000	18,400	1,640	602	383	1,340	238
6	22,000	10,800	16,000	890	28,100	15,500	15,300	1,500	552	376	1,420	277
7	24,000	11,200	17,800	791	26,000	14,400	10,800	1,020	622	406	351	241
8	26,200	11,800	21,900	796	25,100	14,000	10,300	1,040	557	362	336	228
9	25,500	12,300	19,700	967	23,200	12,900	10,500	1,410	562	328	258	204
10	24,000	11,200	17,500	1,270	23,400	13,800	14,900	2,070	651	329	265	186
11	27,000	9,800	20,500	2,620	24,600	15,300	15,900	1,610	562	367	218	172
12	22,500	12,200	17,800	4,110	23,900	11,800	8,040	1,470	517	448	202	163
13	21,300	12,600	15,600	5,250	21,100	8,200	14,300	1,170	720	327	192	162
14	18,000	7,690	15,700	5,690	23,900	4,140	11,800	737	745	335	192	166
15	13,600	5,860	17,400	7,270	21,500	2,280	12,200	725	449	289	203	173
16	13,300	7,450	17,900	5,030	17,900	1,510	11,600	705	433	279	210	188
17	15,600	8,080	17,300	6,050	16,900	1,450	14,800	705	370	272	213	193
18	17,200	8,040	18,600	6,200	21,600	1,140	15,600	799	332	253	237	196
19	20,700	8,090	22,700	6,200	19,500	1,280	11,500	1,040	314	238	260	195
20	23,100	8,440	23,100	7,750	17,300	1,900	4,110	806	288	253	259	195
21	28,500	10,300	22,400	6,790	15,100	1,610	1,610	564	285	253	356	196
22	27,900	12,800	25,500	7,230	14,200	1,820	1,250	540	291	251	260	199
23	22,300	10,700	26,700	9,680	12,800	1,540	2,060	473	336	244	280	205
24	24,800	9,580	21,000	9,710	10,300	1,950	5,980	469	326	248	283	211
25	24,300	12,300	27,300	10,400	9,660	1,750	10,900	556	319	256	318	215
26	26,500	12,900	24,500	12,300	11,800	2,880	14,400	845	328	265	15,000	217
27	23,700	12,900	22,900	13,100	15,800	3,200	14,100	630	326	262	1,300	290
28	21,200	11,900	23,300	13,300	14,200	2,720	12,500	614	320	258	604	240
29	22,200	14,600	23,200	14,700	18,200	1,680	15,600	560	311	264	302	193
30	25,300	15,400	26,400	15,800	18,800	1,580	17,700	542	315	273	284	172
31	---	---	28,400	16,600	---	---	20,300	606	315	273	---	---
MONTH	28,500	5,860	28,400	791	31,200	1,140	23,900	469	13,300	238	15,000	162

## 02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT BELOW SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	---	---	26.5	23.8	20.7	17.7	21.1	18.6	---	---	20.1	18.4
2	---	---	26.2	23.8	20.3	17.2	21.0	19.1	---	---	21.1	19.1
3	---	---	25.2	23.8	20.1	17.1	21.5	19.6	---	---	21.7	20.0
4	---	---	25.8	24.2	20.6	18.3	22.1	20.5	---	---	22.7	20.4
5	---	---	26.5	24.7	20.7	19.7	22.5	20.8	---	---	22.8	21.2
6	---	---	27.3	25.4	19.9	17.7	23.5	21.4	---	---	24.7	21.8
7	---	---	27.8	25.0	18.1	14.3	22.2	17.6	---	---	26.0	23.2
8	---	---	27.4	25.6	18.7	15.8	19.5	15.3	---	---	25.2	22.0
9	---	---	26.9	25.4	19.7	17.3	20.3	17.9	---	---	23.7	21.0
10	28.4	26.4	26.3	24.0	19.7	18.6	20.0	15.7	---	---	22.2	20.1
11	28.0	26.4	26.1	24.3	19.4	17.8	17.8	12.8	---	---	22.2	18.7
12	28.9	26.8	26.5	24.0	19.9	16.9	18.6	14.5	---	---	22.5	19.9
13	28.7	27.7	26.6	24.6	19.7	18.0	18.3	15.5	---	---	22.8	20.3
14	29.7	27.9	25.4	22.1	20.1	19.1	18.3	15.6	---	---	21.8	19.5
15	29.5	26.6	25.4	22.7	19.6	17.4	18.5	16.4	---	---	22.2	20.8
16	27.6	24.7	25.2	22.7	19.4	16.9	19.1	16.6	---	---	22.4	21.9
17	28.8	25.5	26.0	23.1	19.7	17.4	18.2	16.5	---	---	24.3	21.8
18	29.0	25.6	25.5	23.5	17.8	16.1	18.7	17.6	---	---	25.0	21.1
19	28.7	25.7	24.6	23.3	17.2	15.7	19.7	17.9	---	---	26.0	22.9
20	27.8	25.6	23.8	21.7	16.2	14.4	19.7	17.4	---	---	25.4	22.5
21	27.5	25.0	23.5	20.6	15.0	12.0	19.8	16.4	---	---	25.6	22.8
22	27.1	24.6	22.9	20.7	16.4	13.3	19.4	17.4	---	---	25.1	22.4
23	27.1	25.1	22.9	21.2	17.8	15.6	19.1	16.3	---	---	23.0	18.5
24	27.0	24.4	23.9	21.7	18.9	16.7	---	---	23.8	21.3	21.7	19.8
25	26.5	24.2	24.0	22.8	18.9	16.3	---	---	23.9	20.8	21.4	19.7
26	27.3	25.1	24.7	23.0	18.9	15.5	---	---	21.9	20.4	22.4	20.1
27	28.1	25.9	25.2	23.1	19.2	15.9	---	---	21.0	17.5	22.9	20.7
28	27.3	26.4	25.9	23.3	19.0	16.7	---	---	18.9	14.9	23.9	21.1
29	27.2	25.2	23.8	17.2	20.2	17.9	---	---	19.2	16.5	23.4	21.4
30	27.1	24.0	19.6	16.1	20.5	17.8	---	---	---	---	23.7	21.2
31	27.5	24.0	---	---	21.4	18.2	---	---	---	---	24.3	22.3
MONTH	---	---	27.8	16.1	21.4	12.0	---	---	---	---	26.0	18.4
1	24.1	21.8	28.1	25.8	31.4	29.5	31.0	28.6	29.7	28.3	31.0	29.2
2	23.8	21.6	28.8	26.7	31.2	29.7	31.2	29.3	29.0	27.9	30.6	28.5
3	24.0	21.5	27.9	26.7	31.0	29.5	31.5	29.1	28.9	27.9	31.5	28.5
4	23.6	21.5	28.7	24.7	30.6	27.3	31.9	29.3	29.0	27.7	29.7	26.0
5	24.0	21.2	27.6	23.6	30.1	27.0	32.6	29.8	29.2	27.8	27.0	25.5
6	23.9	20.7	27.3	24.8	31.4	28.2	32.9	30.2	29.5	28.2	27.2	25.4
7	24.2	22.3	27.7	24.9	31.6	28.4	33.1	30.0	30.2	28.4	27.8	26.7
8	24.9	22.8	27.8	24.7	31.1	28.3	33.0	29.6	29.5	28.0	28.7	26.8
9	26.1	23.8	27.2	24.8	30.8	28.0	33.9	30.2	---	---	29.9	27.3
10	27.7	24.5	25.9	24.8	30.1	28.0	33.8	30.3	---	---	30.8	27.7
11	27.6	24.6	26.1	24.4	30.2	28.2	32.8	30.0	31.0	27.5	30.0	28.1
12	26.1	23.4	27.4	24.5	31.7	28.4	32.5	29.4	30.4	28.0	30.0	28.2
13	23.5	22.9	28.0	25.0	31.6	28.9	32.3	30.0	28.8	25.6	29.7	28.3
14	22.9	20.0	28.5	25.0	31.6	28.4	32.7	30.3	28.8	25.6	29.0	28.1
15	23.8	18.5	28.6	25.1	31.8	28.7	32.4	30.6	30.6	27.0	28.7	27.6
16	24.2	19.5	28.5	25.5	31.5	28.8	31.5	29.8	31.7	27.6	30.0	27.5
17	24.5	20.3	29.1	25.6	31.8	28.9	30.4	29.6	31.3	27.9	30.4	28.8
18	24.7	20.6	28.8	26.1	32.2	29.2	30.3	29.3	31.1	28.2	31.4	29.2
19	24.2	21.6	28.2	25.9	31.2	29.5	29.7	28.5	32.0	28.5	31.3	28.6
20	25.1	21.8	29.1	26.1	31.5	30.3	28.8	24.6	31.7	29.1	29.1	27.5
21	24.6	22.6	29.5	26.2	31.6	30.3	28.8	26.1	32.3	29.9	27.8	25.7
22	26.0	23.2	29.3	26.3	32.4	30.4	30.8	27.8	32.1	29.5	27.4	26.4
23	27.5	24.3	29.1	26.6	33.9	30.6	30.7	28.5	31.7	29.5	28.0	26.2
24	27.6	24.6	29.9	26.7	33.4	30.7	31.6	29.1	30.6	29.1	28.5	26.1
25	27.0	25.3	29.7	26.8	33.2	29.8	32.0	29.6	30.0	28.8	27.5	25.8
26	26.8	25.4	29.3	27.2	33.4	30.1	31.8	29.6	31.1	28.3	26.5	25.3
27	27.1	25.2	30.8	28.0	32.5	29.7	31.7	29.5	31.2	28.8	27.8	25.2
28	27.4	23.1	31.2	28.4	31.9	29.6	30.6	29.3	30.5	28.5	28.6	26.4
29	27.2	24.9	31.8	28.7	30.8	28.4	30.6	29.0	31.2	29.0	28.9	27.0
30	27.7	25.2	31.5	29.4	30.7	28.2	30.9	28.7	32.4	29.5	30.4	27.6
31	---	---	31.7	29.8	---	---	30.5	28.8	33.2	29.6	---	---
MONTH	27.7	18.5	31.8	23.6	33.9	27.0	33.9	24.6	---	---	31.5	25.2

## 02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL.—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	26.4	23.9	20.5	17.6	21.0	18.5	---	---	19.9	18.2
2	---	---	26.1	23.8	20.2	17.0	20.8	19.0	---	---	21.0	19.0
3	---	---	25.0	23.7	20.0	17.0	21.4	19.4	---	---	21.6	19.8
4	---	---	25.7	24.2	20.4	18.3	22.0	20.3	---	---	22.6	20.3
5	---	---	26.2	24.6	20.6	19.6	22.4	20.7	---	---	22.7	21.0
6	---	---	26.5	25.3	20.4	17.6	23.4	21.3	---	---	24.6	21.6
7	---	---	27.5	24.9	18.6	14.2	22.1	17.5	---	---	25.9	23.1
8	---	---	27.3	25.5	18.6	15.9	19.4	15.2	---	---	25.0	21.8
9	---	---	27.1	25.3	19.6	17.3	20.2	17.7	---	---	23.7	20.8
10	---	---	26.2	23.9	19.5	18.5	19.9	15.6	---	---	22.1	19.9
11	---	---	26.1	24.2	19.4	17.6	17.7	12.7	---	---	22.1	18.6
12	---	---	26.5	24.1	19.8	16.9	18.5	14.4	---	---	22.2	19.8
13	---	---	26.5	24.6	19.6	18.0	18.2	15.3	---	---	22.7	20.1
14	---	---	25.5	22.0	20.0	19.0	18.4	15.5	---	---	21.8	19.4
15	---	---	25.3	23.0	19.5	17.4	18.4	16.3	---	---	22.1	20.7
16	---	---	25.1	23.3	19.3	16.8	18.9	16.5	---	---	22.3	21.8
17	---	---	25.9	23.1	19.5	17.3	18.1	16.4	---	---	24.2	21.7
18	---	---	25.2	23.4	17.7	16.0	18.6	17.5	---	---	24.9	21.0
19	---	---	24.5	23.3	17.1	15.6	19.6	17.8	---	---	25.9	22.8
20	---	---	23.7	21.6	16.7	14.3	19.6	17.3	---	---	25.3	22.4
21	27.1	25.2	23.3	20.5	14.9	11.9	19.7	16.3	---	---	25.5	22.7
22	26.9	24.5	22.7	20.6	16.3	13.2	19.3	17.3	---	---	25.0	22.3
23	26.7	25.0	22.9	21.1	17.7	15.5	19.0	16.2	---	---	22.9	18.4
24	26.7	24.2	23.8	21.6	18.9	16.5	---	---	23.7	21.2	21.6	19.7
25	26.5	24.1	24.1	22.7	18.8	16.2	---	---	23.8	20.6	21.3	19.6
26	27.3	25.0	24.7	23.0	18.8	15.4	---	---	21.8	20.4	22.2	20.0
27	28.1	25.8	25.3	23.4	19.1	15.8	---	---	21.2	17.4	22.8	20.5
28	27.6	26.3	25.7	23.7	18.9	16.6	---	---	18.8	14.8	23.7	21.0
29	27.1	25.1	23.7	17.1	20.1	17.8	---	---	19.1	16.4	23.4	21.3
30	27.0	24.0	19.5	16.0	20.4	17.7	---	---	---	---	23.6	20.9
31	27.4	23.9	---	---	21.2	18.1	---	---	---	---	23.9	22.2
MONTH	---	---	27.5	16.0	21.2	11.9	---	---	---	---	25.9	18.2
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	23.9	21.8	27.8	25.7	31.2	29.5	30.8	28.5	29.6	28.2	30.8	29.2
2	23.6	21.2	28.7	26.6	31.1	29.6	30.9	29.2	28.9	27.8	30.6	28.5
3	23.8	21.4	27.8	26.5	30.6	29.1	31.4	29.0	28.8	27.8	31.5	28.5
4	23.4	21.4	28.6	24.8	30.7	27.2	31.6	29.3	28.5	27.6	29.8	25.9
5	23.8	21.1	27.4	23.4	30.0	26.9	32.3	29.7	29.1	27.7	27.0	25.5
6	23.8	20.7	26.9	24.7	30.2	28.0	32.2	30.1	29.1	28.2	27.1	25.4
7	24.0	22.2	27.2	24.8	30.5	28.2	32.3	29.7	29.9	28.3	27.8	26.7
8	24.8	22.7	26.9	24.6	30.8	28.2	32.5	29.5	29.3	27.9	28.6	26.7
9	26.0	23.7	26.6	24.6	30.6	28.0	33.9	30.1	30.6	27.5	29.8	27.3
10	26.7	24.4	25.6	24.8	29.9	27.9	33.7	30.2	29.8	27.8	30.5	27.7
11	27.5	24.6	25.8	24.3	30.2	28.1	32.6	29.9	31.3	28.0	29.9	28.0
12	26.3	23.3	27.3	24.4	31.4	28.2	32.1	29.3	30.8	28.5	29.9	28.2
13	23.4	22.7	27.9	24.9	31.4	28.8	32.3	30.2	29.3	26.4	29.6	28.4
14	22.9	20.0	28.2	24.9	31.4	28.2	32.6	30.0	28.7	26.2	28.9	28.1
15	23.7	18.4	28.3	25.1	31.5	28.7	32.2	30.5	30.6	26.9	28.6	27.5
16	24.1	19.4	28.4	25.4	31.3	28.7	31.3	29.7	31.0	27.6	29.9	27.5
17	24.4	20.2	28.6	25.6	31.5	28.8	30.3	29.5	30.8	27.9	30.3	28.7
18	24.6	20.5	28.3	26.1	31.0	29.0	30.2	29.2	31.0	28.1	31.3	29.2
19	24.1	21.5	27.9	25.9	31.1	29.4	29.6	28.3	31.4	28.5	31.1	28.6
20	24.9	21.7	28.8	26.1	31.4	30.0	28.6	26.9	31.2	29.1	29.1	27.5
21	24.5	22.6	29.0	26.1	31.5	30.1	28.7	26.8	32.0	29.8	27.8	25.7
22	25.9	23.1	28.8	26.1	31.7	30.3	30.7	27.7	31.6	29.5	27.4	26.4
23	27.3	24.2	28.6	26.2	33.4	30.4	30.6	28.4	31.3	29.5	28.0	26.2
24	27.1	24.4	29.4	26.6	33.1	30.6	31.5	29.0	30.5	29.1	28.4	26.1
25	26.7	25.2	29.5	26.6	32.8	29.6	31.7	29.5	29.8	28.8	27.5	25.9
26	26.7	25.3	29.3	27.1	33.3	30.1	31.7	29.5	31.0	28.3	26.4	25.3
27	27.0	25.0	30.5	28.0	32.2	29.6	31.6	29.4	31.1	28.8	27.8	25.2
28	27.2	23.0	30.9	28.3	31.6	29.5	30.6	29.2	30.3	28.5	28.6	26.4
29	27.1	24.7	31.6	28.6	30.4	28.6	30.5	28.9	31.1	29.0	28.8	26.9
30	27.3	25.1	31.3	29.4	30.3	28.2	30.8	28.6	31.6	29.5	30.1	27.5
31	---	---	31.6	29.7	---	---	30.3	28.7	33.3	29.6	---	---
MONTH	27.5	18.4	31.6	23.4	33.4	26.9	33.9	26.8	33.3	26.2	31.5	25.2

## 02297635 SHELL CREEK ON CR 764 NEAR PUNTA GORDA, FL.

LOCATION.--Lat 26° 58'30", long 81° 53'15" (1983 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.26, T.40 S., R.24 E., Charlotte County, Hydrologic Unit 03100101, near center of bridge on Washington Loop Road, 4.8 mi east of U.S. 17, 9.0 mi upstream of mouth, and 9.75 mi northeast of Punta Gorda.

DRAINAGE AREA.--90.1 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--February to September 2004 (gage heights only).

GAGE.--Water-stage recorder. Datum of gage has not been determined.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 20.68 ft, Aug. 14; minimum, 18.26 ft, June 2.

GAGE HEIGHT, FEET  
PERIOD FEBRUARY TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	18.82	18.38	18.54	18.30	18.56	18.71	19.22
2	---	---	---	---	---	18.76	18.39	18.54	18.29	18.54	18.95	19.12
3	---	---	---	---	---	18.72	18.38	18.57	18.30	18.52	19.10	19.04
4	---	---	---	---	---	18.67	18.38	18.60	18.34	18.50	19.17	18.98
5	---	---	---	---	---	18.62	18.37	18.62	18.34	18.53	19.28	19.05
6	---	---	---	---	---	18.60	18.37	18.60	18.33	18.53	19.43	19.71
7	---	---	---	---	---	18.57	18.37	18.56	18.33	18.54	19.68	19.98
8	---	---	---	---	---	18.57	18.37	18.52	18.35	18.53	19.72	19.93
9	---	---	---	---	---	18.54	18.38	18.48	18.39	18.53	19.63	19.83
10	---	---	---	---	---	18.52	18.38	18.46	18.44	18.51	19.46	19.81
11	---	---	---	---	---	18.50	18.37	18.44	18.45	18.50	19.36	19.64
12	---	---	---	---	---	18.49	18.43	18.42	18.46	18.50	19.47	19.56
13	---	---	---	---	---	18.48	18.44	18.39	18.48	18.50	19.51	19.48
14	---	---	---	---	---	18.45	18.45	18.38	18.51	18.51	20.42	19.38
15	---	---	---	---	---	18.45	18.43	18.37	18.58	18.50	20.40	19.28
16	---	---	---	---	18.44	18.48	18.42	18.37	18.65	18.51	20.39	19.19
17	---	---	---	---	18.45	18.48	18.40	18.36	18.65	18.52	20.58	19.09
18	---	---	---	---	18.45	18.47	18.38	18.35	18.62	18.51	20.37	19.00
19	---	---	---	---	18.44	18.46	18.38	18.34	18.58	18.50	20.03	18.93
20	---	---	---	---	18.43	18.43	18.38	18.34	18.55	18.55	19.83	18.89
21	---	---	---	---	18.42	18.44	18.37	18.34	18.52	18.62	19.69	18.89
22	---	---	---	---	18.41	18.44	18.37	18.33	18.49	18.65	19.56	18.91
23	---	---	---	---	18.41	18.42	18.37	18.33	18.46	18.63	19.59	18.94
24	---	---	---	---	18.41	18.38	18.37	18.33	18.48	18.60	19.59	18.94
25	---	---	---	---	18.59	18.37	18.36	18.33	18.51	18.56	19.60	18.93
26	---	---	---	---	18.91	18.36	18.36	18.32	18.50	18.57	19.65	19.15
27	---	---	---	---	18.99	18.36	18.38	18.33	18.54	18.58	19.54	19.38
28	---	---	---	---	18.96	18.37	18.36	18.32	18.53	18.59	19.45	19.37
29	---	---	---	---	18.89	18.37	18.34	18.31	18.54	18.63	19.38	19.42
30	---	---	---	---	---	18.37	18.37	18.30	18.57	18.67	19.31	19.43
31	---	---	---	---	---	18.37	---	18.30	---	18.66	19.25	---
MEAN	---	---	---	---	---	18.49	18.38	18.41	18.47	18.55	19.62	19.28
MAX	---	---	---	---	---	18.82	18.45	18.62	18.65	18.67	20.58	19.98
MIN	---	---	---	---	---	18.36	18.34	18.30	18.29	18.50	18.71	18.89

02297635 SHELL CREEK ON CR 764 NEAR PUNTA GORDA, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--February to September 2004.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors.

REMARKS.--Specific conductance records good and temperature records excellent.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Maximum, 1,340 microsiemens, June 14; minimum, 218 microsiemens, Aug. 14.

TEMPERATURE.--Maximum, 30.4°C, Aug. 31; minimum, 16.3°C, Feb. 29.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD FEBRUARY TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	---	---	---	---	---	---	---	---	---	---	---	646	630			
2	---	---	---	---	---	---	---	---	---	---	---	700	646			
3	---	---	---	---	---	---	---	---	---	---	---	734	698			
4	---	---	---	---	---	---	---	---	---	---	---	762	728			
5	---	---	---	---	---	---	---	---	---	---	---	808	757			
6	---	---	---	---	---	---	---	---	---	---	---	831	800			
7	---	---	---	---	---	---	---	---	---	---	---	836	823			
8	---	---	---	---	---	---	---	---	---	---	---	836	798			
9	---	---	---	---	---	---	---	---	---	---	---	833	804			
10	---	---	---	---	---	---	---	---	---	---	---	845	828			
11	---	---	---	---	---	---	---	---	---	---	---	853	831			
12	---	---	---	---	---	---	---	---	---	---	---	852	834			
13	---	---	---	---	---	---	---	---	---	---	---	867	851			
14	---	---	---	---	---	---	---	---	---	---	---	880	864			
15	---	---	---	---	---	---	---	---	---	---	---	927	874			
16	---	---	---	---	---	---	---	---	---	---	---	954	926			
17	---	---	---	---	---	---	---	---	985	954	---	967	947			
18	---	---	---	---	---	---	---	---	985	969	---	971	966			
19	---	---	---	---	---	---	---	---	977	953	---	968	963			
20	---	---	---	---	---	---	---	---	961	944	---	969	959			
21	---	---	---	---	---	---	---	---	961	938	---	966	940			
22	---	---	---	---	---	---	---	---	972	960	---	978	953			
23	---	---	---	---	---	---	---	---	975	970	---	987	962			
24	---	---	---	---	---	---	---	---	977	973	---	1,000	979			
25	---	---	---	---	---	---	---	---	979	915	---	1,010	997			
26	---	---	---	---	---	---	---	---	935	431	---	1,000	993			
27	---	---	---	---	---	---	---	---	559	487	---	998	993			
28	---	---	---	---	---	---	---	---	587	559	---	993	971			
29	---	---	---	---	---	---	---	---	630	587	---	985	966			
30	---	---	---	---	---	---	---	---	---	---	---	997	978			
31	---	---	---	---	---	---	---	---	---	---	---	1,020	989			
MONTH	---	---	---	---	---	---	---	---	---	---	---	1,020	630			



## 02297635 SHELL CREEK ON CR 764 NEAR PUNTA GORDA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD FEBRUARY TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1,030	1,010	1,080	946	1,130	1,090	937	826	811	628	485	428
2	1,030	1,010	1,090	1,060	1,130	1,100	985	908	648	568	545	485
3	1,020	1,010	1,110	1,060	1,150	1,110	983	966	576	511	576	545
4	1,020	1,020	1,060	968	1,160	1,100	982	952	573	520	600	575
5	1,040	1,020	1,030	932	1,120	1,100	970	942	570	486	609	556
6	1,040	1,020	993	904	1,120	1,090	965	935	525	415	556	300
7	1,040	1,030	906	887	1,130	1,090	951	893	427	375	346	301
8	1,050	1,040	894	882	1,130	1,090	1,010	915	472	406	358	335
9	1,060	1,050	897	893	1,170	1,110	982	947	521	472	379	335
10	1,080	1,060	928	887	1,230	1,160	1,010	952	572	521	398	349
11	1,090	1,070	977	900	1,230	1,140	1,030	978	610	486	426	398
12	1,090	1,070	1,010	945	1,280	1,140	1,050	954	514	446	450	426
13	1,080	1,040	991	971	1,320	1,280	977	924	548	286	485	450
14	1,060	1,030	997	977	1,340	1,240	989	970	291	218	507	485
15	1,080	1,050	1,000	977	1,270	1,160	980	962	333	237	544	506
16	1,100	1,070	1,020	985	1,260	966	985	957	347	253	569	542
17	1,100	1,090	1,040	1,000	973	874	987	902	269	241	581	566
18	1,120	1,100	1,040	1,000	888	862	980	907	326	269	609	578
19	1,130	1,110	1,040	1,020	924	864	988	959	360	326	612	591
20	1,130	1,110	1,060	1,020	959	924	1,000	743	346	316	624	601
21	1,130	1,100	1,050	1,030	993	954	1,010	826	388	345	646	609
22	1,110	1,100	1,060	1,030	1,010	985	1,020	975	398	388	621	595
23	1,110	1,100	1,040	1,030	1,030	1,000	994	970	395	308	612	591
24	1,110	1,090	1,040	1,020	1,060	952	974	944	378	303	622	605
25	1,110	1,100	1,060	1,020	966	746	965	940	384	337	646	617
26	1,110	1,090	1,080	1,050	883	771	951	910	393	347	653	395
27	1,120	1,080	1,100	1,070	989	775	923	870	418	392	395	281
28	1,110	1,090	1,100	1,080	1,030	864	889	813	419	406	394	345
29	1,100	1,090	1,100	1,080	1,070	875	927	814	435	418	440	391
30	1,100	1,060	1,110	1,090	997	784	861	769	475	433	462	435
31	---	---	1,120	1,090	---	---	815	775	495	456	---	---
MONTH	1,130	1,010	1,120	882	1,340	746	1,050	743	811	218	653	281

02297635 SHELL CREEK ON CR 764 NEAR PUNTA GORDA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD FEBRUARY TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER				
1	---	---	---	---	---	---	---	---	---	---	---	18.3	17.2			
2	---	---	---	---	---	---	---	---	---	---	---	19.1	18.3			
3	---	---	---	---	---	---	---	---	---	---	---	19.9	19.1			
4	---	---	---	---	---	---	---	---	---	---	---	20.1	19.8			
5	---	---	---	---	---	---	---	---	---	---	---	20.6	19.9			
6	---	---	---	---	---	---	---	---	---	---	---	21.2	20.5			
7	---	---	---	---	---	---	---	---	---	---	---	22.0	21.1			
8	---	---	---	---	---	---	---	---	---	---	---	22.6	21.9			
9	---	---	---	---	---	---	---	---	---	---	---	22.8	21.9			
10	---	---	---	---	---	---	---	---	---	---	---	22.1	21.5			
11	---	---	---	---	---	---	---	---	---	---	---	21.7	20.6			
12	---	---	---	---	---	---	---	---	---	---	---	20.6	19.8			
13	---	---	---	---	---	---	---	---	---	---	---	19.8	19.4			
14	---	---	---	---	---	---	---	---	---	---	---	19.4	19.2			
15	---	---	---	---	---	---	---	---	---	---	---	19.3	19.1			
16	---	---	---	---	---	---	---	---	---	---	---	19.5	19.2			
17	---	---	---	---	---	---	---	---	---	19.9	19.2	20.1	19.4			
18	---	---	---	---	---	---	---	---	---	19.2	18.3	20.3	20.1			
19	---	---	---	---	---	---	---	---	---	18.5	17.7	20.5	20.2			
20	---	---	---	---	---	---	---	---	---	17.9	17.7	20.5	20.4			
21	---	---	---	---	---	---	---	---	---	17.7	17.6	20.9	20.4			
22	---	---	---	---	---	---	---	---	---	17.8	17.7	21.8	20.9			
23	---	---	---	---	---	---	---	---	---	17.8	17.7	21.7	21.1			
24	---	---	---	---	---	---	---	---	---	18.1	17.8	21.4	20.9			
25	---	---	---	---	---	---	---	---	---	18.9	18.0	21.1	20.8			
26	---	---	---	---	---	---	---	---	---	19.9	18.4	20.9	20.8			
27	---	---	---	---	---	---	---	---	---	20.6	19.1	21.0	20.9			
28	---	---	---	---	---	---	---	---	---	19.1	17.4	21.1	21.0			
29	---	---	---	---	---	---	---	---	---	18.0	16.3	21.2	21.0			
30	---	---	---	---	---	---	---	---	---	---	---	21.3	21.1			
31	---	---	---	---	---	---	---	---	---	---	---	21.6	21.2			
MONTH	---	---	---	---	---	---	---	---	---	---	---	22.8	17.2			
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	22.0	21.5	24.2	23.7	27.9	27.0	27.6	27.1	29.3	27.7	29.3	28.0				
2	21.9	21.7	24.6	24.1	27.7	27.2	27.5	27.2	27.7	27.0	29.3	28.2				
3	21.8	21.6	25.2	24.4	28.2	27.4	27.7	27.4	27.7	26.8	29.3	28.0				
4	21.7	21.6	25.9	24.7	28.5	27.4	28.0	27.7	28.0	27.5	29.3	28.2				
5	21.6	21.5	25.8	24.9	28.2	27.6	28.1	27.8	27.9	27.1	28.4	25.5				
6	21.5	21.4	25.1	24.8	28.2	27.7	28.4	27.9	28.7	27.9	27.1	25.0				
7	21.5	21.4	24.9	24.4	28.3	27.6	28.4	28.0	28.7	28.2	27.4	26.9				
8	21.7	21.4	24.7	24.4	28.0	27.6	28.6	28.2	28.6	27.7	27.6	27.2				
9	21.8	21.6	24.5	24.4	28.0	27.4	28.5	28.2	28.3	27.8	28.1	27.5				
10	21.8	21.7	24.7	24.4	27.5	26.4	28.6	28.3	29.2	28.3	28.4	28.1				
11	22.1	21.8	24.7	24.5	26.5	26.2	28.8	28.4	29.3	28.0	29.0	28.3				
12	22.4	22.0	24.7	24.5	26.9	26.3	28.8	28.1	28.4	27.8	28.8	28.1				
13	22.8	22.2	24.6	24.5	27.0	26.7	28.4	28.1	28.8	25.8	28.8	28.0				
14	22.7	22.0	24.8	24.5	27.3	27.0	28.7	28.4	27.7	25.3	28.2	27.7				
15	22.0	21.2	24.9	24.6	28.0	26.9	28.9	28.6	28.5	27.1	27.8	27.3				
16	21.4	21.2	25.0	24.7	28.1	27.7	29.0	28.7	28.5	27.5	28.4	27.1				
17	21.3	21.2	25.2	24.8	28.4	28.0	29.0	28.4	29.4	28.1	29.0	27.9				
18	21.5	21.2	25.3	24.8	28.6	28.0	28.9	28.4	29.6	29.3	29.0	28.4				
19	21.7	21.4	25.3	25.0	29.0	28.5	28.8	28.6	29.6	28.8	28.9	28.3				
20	21.9	21.6	25.4	25.1	29.4	29.0	28.7	27.2	29.0	28.7	28.4	27.4				
21	22.0	21.7	25.6	25.2	29.7	29.3	27.4	26.9	29.7	29.0	27.4	25.8				
22	22.2	21.8	25.9	25.4	29.9	29.5	27.5	26.7	29.5	28.7	25.8	25.2				
23	22.4	22.0	25.9	25.4	29.8	29.5	27.3	26.8	29.1	28.0	26.4	25.3				
24	22.8	22.3	26.0	25.6	29.8	29.0	27.7	27.2	28.6	28.2	26.4	25.7				
25	22.9	22.6	26.2	25.7	29.1	27.4	27.8	27.4	28.2	27.2	26.4	26.1				
26	23.4	22.8	26.3	25.9	28.3	27.6	28.3	27.5	28.3	27.4	26.1	25.1				
27	23.8	23.2	26.6	26.0	28.4	27.5	28.3	27.8	29.2	28.3	26.2	25.1				
28	23.7	23.5	26.7	26.3	28.3	27.8	28.3	27.7	29.4	28.6	27.3	26.2				
29	24.1	23.6	26.9	26.5	28.3	27.6	28.5	27.8	30.0	28.5	28.2	26.9				
30	24.1	23.8	27.2	26.6	27.7	26.9	29.1	28.1	30.3	29.1	28.5	27.2				
31	---	---	27.3	26.8	---	---	29.3	28.4	30.4	28.7	---	---				
MONTH	24.1	21.2	27.3	23.7	29.9	26.2	29.3	26.7	30.4	25.3	29.3	25.0				

## 02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL.

LOCATION.--Lat 27°03'06", long 81°47'05" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.26, T.39 S., R.25 E., De Soto County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 31, 0.4 mi downstream from Myrtle Slough, and 10.6 mi east of Fort Ogden.

DRAINAGE AREA.--233 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1968; October 1969 to September 1977 (gage heights and discharge measurements only); October 1977 to current year.

REVISED RECORDS.--W 1983: 1982 (M and daily).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 25.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,510	69	e47	69	96	202	34	65	e30	147	201	1,100
2	1,460	68	e44	67	103	186	31	112	e27	133	e327	936
3	1,390	69	e41	65	105	168	31	150	e39	119	e433	792
4	1,260	66	e38	63	102	141	30	209	e49	153	e551	722
5	1,120	68	e41	62	97	125	29	205	e46	159	e643	809
6	958	95	e37	63	93	113	28	184	e44	180	962	1,190
7	764	155	e33	59	89	104	27	158	e42	161	1,280	1,550
8	612	137	e34	57	86	97	27	126	38	160	1,480	1,710
9	532	120	e35	57	82	86	26	102	45	139	1,370	1,760
10	482	113	e35	55	80	79	26	86	62	113	1,190	1,940
11	426	87	e35	54	77	74	25	71	71	94	1,030	1,980
12	375	79	e36	54	74	71	30	59	95	104	982	1,880
13	334	70	e38	54	73	66	33	e60	111	128	919	1,720
14	284	66	e39	55	71	63	35	e61	147	122	1,550	1,530
15	255	60	43	55	80	61	33	e58	248	101	2,080	1,310
16	233	59	48	55	81	59	30	e59	283	98	2,400	1,070
17	206	59	116	56	80	61	27	e58	270	123	2,360	878
18	185	e63	136	68	77	60	25	e48	226	98	2,140	750
19	167	e72	132	101	76	57	24	e51	183	100	1,970	675
20	153	e74	128	104	71	53	22	e51	143	140	1,910	615
21	137	e70	130	101	70	50	21	e54	114	222	1,840	627
22	125	e62	121	98	69	49	20	e51	92	237	1,720	728
23	121	e58	111	93	67	45	20	e46	75	206	1,700	746
24	108	e56	101	90	65	43	20	e48	64	169	1,780	712
25	99	e58	95	87	107	42	21	e45	87	138	1,920	636
26	94	e55	90	86	231	41	21	e41	117	134	1,790	705
27	88	e51	84	83	243	39	19	e38	137	122	1,720	1,410
28	83	e54	79	83	234	38	20	e36	142	141	1,670	1,770
29	81	e48	77	84	220	36	19	e35	150	173	1,570	1,860
30	76	e48	73	83	---	35	19	e33	150	195	1,430	1,910
31	73	---	71	86	---	34	---	e32	---	177	1,260	---
TOTAL	13,791	2,209	2,168	2,247	2,999	2,378	773	2,432	3,327	4,486	44,178	36,021
MEAN	445	73.6	69.9	72.5	103	76.7	25.8	78.5	111	145	1,425	1,201
MAX	1,510	155	136	104	243	202	35	209	283	237	2,400	1,980
MIN	73	48	33	54	65	34	19	32	27	94	201	615
CFSM	1.91	0.32	0.30	0.31	0.44	0.33	0.11	0.34	0.48	0.62	6.12	5.15
IN.	2.20	0.35	0.35	0.36	0.48	0.38	0.12	0.39	0.53	0.72	7.05	5.75
*PREC	0.15	2.50	2.82	1.86	3.96	0.42	3.43	0.87	3.34	5.27	11.84	6.99

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	281	96.2	80.5	92.2	123	156	61.9	38.5	271	369	440	517
MAX	1,117	446	766	613	984	895	285	284	1,608	1,196	1,425	1,546
(WY)	(1980)	(2003)	(2003)	(1998)	(1983)	(1984)	(1987)	(1991)	(1982)	(1968)	(2004)	(1979)
MIN	21.4	7.86	4.66	4.08	5.80	4.35	3.07	1.21	3.88	27.2	78.7	93.2
(WY)	(1985)	(1982)	(1982)	(1965)	(1968)	(1968)	(1964)	(1985)	(1964)	(1981)	(1996)	(1968)

## 02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	124,508		117,009			
ANNUAL MEAN	341		320		211	
HIGHEST ANNUAL MEAN					457 1995	
LOWEST ANNUAL MEAN					80.6 2000	
HIGHEST DAILY MEAN	3,100	Jun 23	2,400	Aug 16	4,870	Aug 26, 1995
LOWEST DAILY MEAN	19	Apr 24	19	Apr 27	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	24	Apr 19	20	Apr 24	0.04	Jun 1, 1965
MAXIMUM PEAK FLOW			2,500	Aug 16	5,320	Aug 26, 1995
MAXIMUM PEAK STAGE			11.97	Aug 16	14.19	Oct 1, 1979
ANNUAL RUNOFF (CFSM)	1.46		1.37		0.905	
ANNUAL RUNOFF (INCHES)	19.88		18.68		12.30	
10 PERCENT EXCEEDS	851		1,270		632	
50 PERCENT EXCEEDS	121		88		64	
90 PERCENT EXCEEDS	44		35		7.4	

e Estimated

\* Precipitation, total, inches





02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO APRIL 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	---	---	25.2	23.1	19.5	16.8	---	---	---	---	20.0	18.0				
2	---	---	25.2	22.9	18.7	16.1	---	---	---	---	21.1	19.7				
3	---	---	25.1	23.5	19.2	16.8	---	---	---	---	22.0	20.7				
4	---	---	25.5	23.8	20.9	17.9	---	---	---	---	23.2	21.0				
5	---	---	26.0	24.2	21.5	19.7	---	---	---	---	23.8	21.4				
6	---	---	25.6	24.9	20.4	16.1	---	---	---	---	25.3	21.5				
7	---	---	26.3	24.3	16.1	13.7	---	---	---	---	26.3	23.0				
8	---	---	26.8	25.2	17.2	13.8	---	---	---	---	25.2	22.9				
9	---	---	26.5	25.2	19.2	16.3	---	---	---	---	23.4	19.9				
10	---	---	25.8	24.3	19.5	18.4	---	---	---	---	21.3	19.0				
11	---	---	25.3	23.5	19.2	16.9	---	---	---	---	20.9	17.6				
12	---	---	24.9	22.7	17.1	14.8	---	---	23.3	---	21.6	18.5				
13	---	---	24.7	22.6	18.8	16.2	---	---	23.1	20.4	22.4	19.3				
14	---	---	24.1	21.2	19.8	18.6	---	---	22.9	19.8	22.4	19.5				
15	---	---	22.9	20.4	19.1	17.1	---	---	23.0	20.5	23.1	20.5				
16	---	---	23.0	20.6	19.0	16.2	---	---	21.4	19.0	23.2	21.9				
17	---	---	23.8	21.6	---	---	---	---	19.6	17.7	24.6	21.6				
18	---	---	24.5	22.1	---	---	---	---	17.7	15.1	24.5	20.6				
19	---	---	23.7	22.0	---	---	---	---	17.7	13.9	25.0	21.3				
20	---	---	22.0	19.9	---	---	---	---	18.4	15.6	24.7	21.4				
21	26.6	---	21.6	19.1	---	---	---	---	20.6	17.1	25.1	21.1				
22	26.4	23.7	21.8	19.3	---	---	---	---	21.5	18.0	24.6	21.6				
23	26.5	24.1	22.2	19.5	---	---	---	---	22.2	18.9	22.6	18.9				
24	26.2	23.3	22.8	19.9	---	---	---	---	23.8	20.8	21.5	19.0				
25	26.0	23.9	23.2	21.2	---	---	---	---	22.9	19.6	21.8	18.8				
26	26.7	24.5	23.8	21.5	---	---	---	---	20.4	18.8	23.1	19.3				
27	26.9	24.5	23.3	21.0	---	---	---	---	20.5	18.0	24.0	19.7				
28	26.2	25.1	23.8	21.2	---	---	---	---	18.0	15.8	25.1	19.9				
29	25.9	24.3	22.5	16.0	---	---	---	---	18.2	16.5	25.1	20.2				
30	24.7	22.6	17.6	14.3	---	---	---	---	---	---	25.5	19.7				
31	25.2	23.1	---	---	---	---	---	---	---	---	23.7	17.8				
MONTH	---	---	26.8	14.3	---	---	---	---	---	---	26.3	17.6				
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	24.2	15.2	---	---	---	---	---	---	---	---	---	---				
2	---	---	---	---	---	---	---	---	---	---	---	---				
3	---	---	---	---	---	---	---	---	---	---	---	---				
4	---	---	---	---	---	---	---	---	---	---	---	---				
5	---	---	---	---	---	---	---	---	---	---	---	---				
6	---	---	---	---	---	---	---	---	---	---	---	---				
7	---	---	---	---	---	---	---	---	---	---	---	---				
8	---	---	---	---	---	---	---	---	---	---	---	---				
9	---	---	---	---	---	---	---	---	---	---	---	---				
10	---	---	---	---	---	---	---	---	---	---	---	---				
11	---	---	---	---	---	---	---	---	---	---	---	---				
12	23.5	---	---	---	---	---	---	---	---	---	---	---				
13	22.7	21.6	---	---	---	---	---	---	---	---	---	---				
14	22.0	19.5	---	---	---	---	---	---	---	---	---	---				
15	22.3	17.7	---	---	---	---	---	---	---	---	---	---				
16	23.1	18.6	---	---	---	---	---	---	---	---	---	---				
17	23.8	19.6	---	---	---	---	---	---	---	---	---	---				
18	24.5	20.0	---	---	---	---	---	---	---	---	---	---				
19	24.3	20.6	---	---	---	---	---	---	---	---	---	---				
20	25.4	19.3	---	---	---	---	---	---	---	---	---	---				
21	26.3	18.7	---	---	---	---	---	---	---	---	---	---				
22	---	---	---	---	---	---	---	---	---	---	---	---				
23	---	---	---	---	---	---	---	---	---	---	---	---				
24	---	---	---	---	---	---	---	---	---	---	---	---				
25	---	---	---	---	---	---	---	---	---	---	---	---				
26	---	---	---	---	---	---	---	---	---	---	---	---				
27	---	---	---	---	---	---	---	---	---	---	---	---				
28	---	---	---	---	---	---	---	---	---	---	---	---				
29	---	---	---	---	---	---	---	---	---	---	---	---				
30	---	---	---	---	---	---	---	---	---	---	---	---				
31	---	---	---	---	---	---	---	---	---	---	---	---				
MONTH	---	---	---	---	---	---	---	---	---	---	---	---				

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL.--Continued.

## WATER-QUALITY RECORDS

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)
NOV 19...	0912	--	E72	6.6	7.7	709	22.6	1.0	--	.09	--	.550	--
JAN 12...	0849	3.69	54	8.9	7.8	708	13.5	1.1	--	.10	--	.500	--
JUN 07...	0945	--	E42	6.3	7.7	772	26.1	1.0	--	.04	--	.120	--
JUN 28...	0940	5.22	142	4.2	7.4	721	28.6	1.2	--	.05	--	.100	--
AUG 11...	1000	10.16	1,030	2.2	7.1	370	29.2	--	.06	--	<.06	--	E.006
SEP 01...	0937	10.32	1,120	.9	7.1	373	29.9	--	.17	--	<.06	--	E.004

Date	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 19...	.03	--	.070	.08	--
JAN 12...	.02	--	.040	.06	--
JUN 07...	<.01	--	.050	.08	--
JUN 28...	.01	--	.090	.14	--
AUG 11...	--	.19	--	.28	1.75
SEP 01...	--	.15	--	.26	1.76

Remark codes used in this table:

&lt; -- Less than

E -- Estimated value



02298124 PRAIRIE CREEK DOWNSTREAM NEAR FORT OGDEN, FL.

## WATER-QUALITY RECORDS

LOCATION.--Lat 27° 03'04", long 81° 47'10" (1927 North American datum), in SE $\frac{1}{4}$  sec.26, T.39 S., R.25 E., De Soto County, Hydrologic Unit 03100101, on right bank, 700 ft downstream from bridge on State Highway 31, and 10.6 mi east of Fort Ogdén.

DRAINAGE AREA.--244 mi<sup>2</sup>.

PERIOD OF RECORD.--April to September 2004.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface.

REMARKS.--Specific conductance records fair and temperature records good.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Maximum, 908 microsiemens, July 27; minimum, 167 microsiemens, Aug. 17.

TEMPERATURE.--Maximum, 32.2° C, July 10, 11, 14; minimum, 22.2° C, Apr. 22.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD APRIL TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	733	669	693	577	260	252
2	---	---	---	---	---	---	721	688	602	463	270	259
3	---	---	---	---	---	---	734	710	512	482	301	270
4	---	---	---	---	---	---	863	732	577	443	397	301
5	---	---	---	---	---	---	732	638	467	442	404	383
6	---	---	---	---	---	---	769	637	449	404	383	313
7	---	---	---	---	---	---	810	696	404	349	313	275
8	---	---	---	---	---	---	740	689	349	314	276	257
9	---	---	---	---	---	---	743	719	327	307	260	255
10	---	---	---	---	---	---	752	734	315	263	266	256
11	---	---	---	---	---	---	785	742	273	261	280	265
12	---	---	---	---	---	---	751	709	308	268	298	276
13	---	---	---	---	---	---	746	711	327	308	314	297
14	---	---	---	---	---	---	771	741	311	236	332	309
15	---	---	---	---	---	---	788	764	236	219	343	331
16	---	---	---	---	573	492	852	610	227	170	350	336
17	---	---	---	---	570	527	798	598	189	167	355	341
18	---	---	---	---	557	513	806	756	215	189	360	345
19	---	---	---	---	592	556	849	690	234	215	370	357
20	---	---	---	---	625	592	---	---	250	231	391	363
21	---	---	---	---	702	681	---	---	259	245	374	363
22	---	---	---	---	714	697	---	---	264	249	368	346
23	---	---	---	---	722	704	822	700	249	221	353	341
24	---	---	---	---	727	708	759	737	240	221	373	352
25	---	---	---	---	732	686	772	741	229	212	391	359
26	---	---	---	---	688	668	881	709	215	207	384	321
27	---	---	---	---	704	686	908	721	224	213	321	203
28	---	---	---	---	691	670	755	717	224	217	203	170
29	---	---	---	---	722	681	781	642	234	222	176	169
30	---	---	---	---	776	714	701	623	239	231	184	175
31	---	---	---	---	---	---	679	661	253	237	---	---
MONTH	---	---	---	---	---	---	---	---	693	167	404	169

## 02298124 PRAIRIE CREEK DOWNSTREAM NEAR FORT OGDEN, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD APRIL TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	27.4	25.6	32.1	26.0	30.8	27.7	29.6	27.3	31.2	29.6
2	---	---	27.8	26.3	32.1	26.3	31.3	29.0	27.3	26.3	30.2	28.5
3	---	---	27.8	26.8	31.4	25.7	31.3	28.5	28.4	26.9	30.4	28.5
4	---	---	27.2	25.8	29.4	25.8	32.0	29.0	28.1	27.4	29.7	27.0
5	---	---	27.1	23.9	30.3	25.1	32.0	29.1	28.3	27.0	27.0	25.0
6	---	---	27.2	24.2	30.2	25.7	31.9	29.1	28.9	28.0	26.9	25.0
7	---	---	27.6	24.6	30.8	25.3	30.6	28.5	28.9	28.5	27.4	26.6
8	---	---	28.0	24.3	30.1	25.9	31.1	27.7	28.8	27.9	28.1	27.0
9	---	---	27.8	25.1	29.0	26.4	32.0	28.6	29.8	27.8	29.3	27.2
10	---	---	27.1	25.1	29.5	26.0	32.2	29.1	30.0	28.9	30.3	28.2
11	---	---	26.6	25.1	29.4	26.3	32.2	28.8	30.6	29.3	30.2	28.9
12	---	---	27.5	25.2	30.3	27.3	31.2	27.5	30.2	29.0	30.0	28.5
13	---	---	29.1	25.5	30.1	28.3	31.7	28.6	30.0	26.9	29.8	28.6
14	---	---	28.4	25.6	29.8	27.8	32.2	29.0	27.7	26.1	29.1	28.0
15	---	---	28.0	25.8	29.0	27.5	31.9	28.9	29.3	26.9	28.1	27.3
16	---	---	28.0	25.9	29.4	27.6	30.9	27.9	30.5	27.8	29.6	27.6
17	---	---	28.7	26.0	29.4	28.2	29.6	27.2	31.4	29.0	30.3	28.6
18	---	---	28.4	26.5	29.7	28.4	30.1	27.8	31.8	29.6	30.7	28.6
19	---	---	28.6	26.1	30.2	28.9	29.6	27.8	31.5	29.5	30.3	28.3
20	---	---	29.5	26.2	30.5	28.8	---	---	31.1	29.8	29.3	26.6
21	---	---	29.6	26.2	30.4	28.7	---	---	31.4	30.4	26.6	25.6
22	27.4	22.2	30.1	26.2	30.2	28.6	---	---	31.4	30.1	26.7	25.4
23	27.7	23.1	30.1	26.0	30.5	28.0	30.5	28.2	31.1	29.4	27.4	25.7
24	28.1	23.1	30.4	26.3	30.2	28.2	31.4	28.6	30.1	29.2	27.8	25.9
25	26.8	25.1	31.0	25.9	29.7	27.6	31.8	29.1	29.8	28.1	27.1	26.1
26	27.0	24.4	31.0	27.0	29.6	28.3	30.3	28.2	30.9	28.6	26.4	25.0
27	26.3	25.0	31.4	26.2	29.5	28.4	30.5	27.6	31.1	29.5	27.0	24.9
28	26.0	23.5	31.6	25.7	29.2	28.2	30.3	27.9	31.3	29.4	28.6	26.3
29	26.4	24.5	31.7	25.6	29.0	28.2	29.9	28.1	31.5	29.8	29.6	27.5
30	27.0	25.0	31.6	26.1	29.1	27.1	31.1	28.1	31.8	30.0	30.2	28.2
31	---	---	32.1	26.4	---	---	30.5	28.6	32.1	30.1	---	---
MONTH	---	---	32.1	23.9	32.1	25.1	---	---	32.1	26.1	31.2	24.9

02298170 PRAIRIE CREEK ON CR 764 NEAR PUNTA GORDA, FL.

LOCATION.--Lat 26° 59'25", long 81° 53'41" (1983 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.15, T.40 S., R.24 E., Charlotte County, Hydrologic Unit 03100101, near center of downstream side of bridge on Washington Loop Road, 6.1 mi from intersection of U.S. 17 and Washington Loop Road, and 10 mi northeast of Punta Gorda.

DRAINAGE AREA.--260 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--February to September 2004 (gage heights only).

GAGE.--Water-stage recorder. Datum of gage has not been determined.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 20.42 ft, Aug. 17; minimum, 15.67 ft June 2.

GAGE HEIGHT, FEET  
PERIOD FEBRUARY TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	16.82	15.79	15.96	15.70	16.03	16.22	18.39
2	---	---	---	---	---	16.62	15.79	16.02	15.68	16.01	16.72	18.08
3	---	---	---	---	---	16.50	15.79	16.05	15.70	15.97	17.07	17.74
4	---	---	---	---	---	16.35	15.78	16.11	15.74	15.96	17.30	17.45
5	---	---	---	---	---	16.22	15.78	16.15	15.74	16.01	17.62	17.38
6	---	---	---	---	---	16.15	15.78	16.12	15.73	16.01	17.91	18.45
7	---	---	---	---	---	16.09	15.77	16.07	15.73	16.04	18.20	19.35
8	---	---	---	---	---	16.06	15.79	16.00	15.75	16.01	18.71	19.53
9	---	---	---	---	---	16.02	15.79	15.92	15.79	16.00	19.05	19.54
10	---	---	---	---	---	15.99	15.79	15.89	15.84	15.96	18.84	19.68
11	---	---	---	---	---	15.96	15.78	15.86	15.86	15.93	18.53	19.75
12	---	---	---	---	---	15.94	15.85	15.83	15.88	15.94	18.60	19.77
13	---	---	---	---	---	15.93	15.85	15.80	15.91	15.95	18.51	19.61
14	---	---	---	---	---	15.90	15.85	15.79	15.96	15.96	19.52	19.34
15	---	---	---	---	---	15.89	15.83	15.78	16.08	15.94	19.65	18.99
16	---	---	---	---	---	15.92	15.82	15.78	16.23	15.94	19.91	18.58
17	---	---	---	---	15.89	15.92	15.80	15.76	16.24	15.97	20.19	18.13
18	---	---	---	---	15.89	15.91	15.78	15.75	16.18	15.95	20.34	17.72
19	---	---	---	---	---	15.90	15.78	15.74	16.09	15.93	20.04	17.40
20	---	---	---	---	---	15.87	15.78	15.74	16.02	16.01	19.69	17.16
21	---	---	---	---	---	15.86	15.77	15.74	15.97	16.13	19.47	17.08
22	---	---	---	---	---	15.86	15.77	15.73	15.92	16.21	19.33	17.19
23	---	---	---	---	---	15.83	15.77	15.72	15.88	16.17	19.17	17.39
24	---	---	---	---	---	15.79	15.76	15.72	15.90	16.10	19.10	17.40
25	---	---	---	---	16.07	15.78	15.75	15.72	15.93	16.03	19.27	17.26
26	---	---	---	---	16.78	15.78	15.76	15.72	15.94	16.03	19.51	17.32
27	---	---	---	---	17.21	15.77	15.78	15.72	15.99	16.04	19.36	17.88
28	---	---	---	---	17.22	15.78	15.76	15.72	16.00	16.04	19.22	18.71
29	---	---	---	---	17.04	15.78	15.74	15.71	16.01	16.10	19.09	19.26
30	---	---	---	---	---	15.78	15.77	15.70	16.05	16.17	18.90	19.46
31	---	---	---	---	---	15.78	---	15.70	---	16.16	18.66	---
MEAN	---	---	---	---	---	15.99	15.79	15.84	15.91	16.02	18.83	18.37
MAX	---	---	---	---	---	16.82	15.85	16.15	16.24	16.21	20.34	19.77
MIN	---	---	---	---	---	15.77	15.74	15.70	15.68	15.93	16.22	17.08



## 02298170 PRAIRIE CREEK ON CR 764 NEAR PUNTA GORDA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD FEBRUARY TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	876	870	1,040	958	997	970	815	774	761	715	385	366
2	885	872	1,040	793	1,010	996	815	752	715	610	403	384
3	894	884	793	550	1,020	1,000	773	761	654	592	418	401
4	900	893	648	552	1,020	1,000	809	773	612	581	452	417
5	939	898	724	624	1,040	1,010	908	803	582	547	457	435
6	936	922	769	724	1,030	968	881	718	554	537	435	268
7	926	918	770	748	1,010	968	796	706	539	388	307	285
8	933	920	753	731	1,080	1,010	814	767	413	346	296	284
9	936	928	748	732	1,090	987	816	776	415	299	287	271
10	932	926	742	737	999	846	798	780	426	68	273	270
11	932	927	742	734	929	853	816	795	387	375	274	270
12	986	928	771	742	1,060	928	820	803	403	360	291	274
13	1,120	986	754	750	1,090	1,020	818	795	437	334	304	291
14	1,100	1,000	757	751	1,020	956	796	788	339	268	323	304
15	1,000	960	764	754	958	828	817	796	349	327	337	322
16	961	951	777	763	829	669	848	817	327	320	348	337
17	959	949	784	774	749	674	848	839	322	273	356	346
18	961	948	793	779	722	696	848	727	297	269	366	353
19	965	959	804	790	716	685	851	788	328	297	379	364
20	973	958	809	798	754	716	846	816	339	327	391	377
21	991	973	841	805	781	751	829	752	345	337	416	386
22	1,030	986	853	841	798	775	800	751	355	343	403	377
23	1,040	1,020	863	825	816	792	800	788	364	355	380	362
24	1,040	1,020	848	826	813	760	822	791	360	340	365	358
25	1,030	1,020	852	833	794	765	828	818	340	320	385	365
26	1,030	1,030	859	835	834	778	831	822	323	319	403	382
27	1,030	1,020	879	835	821	779	845	821	330	320	384	278
28	1,030	1,020	896	856	796	754	851	819	337	325	278	213
29	1,040	1,020	894	865	762	741	839	804	344	336	213	193
30	1,050	1,030	922	876	814	753	805	740	356	344	199	192
31	---	---	970	913	---	---	764	748	366	354	---	---
MONTH	1,120	870	1,040	550	1,090	669	908	706	761	68	457	192

02298170 PRAIRIE CREEK ON CR 764 NEAR PUNTA GORDA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD FEBRUARY TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH										
1	---	---	---	---	---	---	---	---	---	---	18.9	17.2				
2	---	---	---	---	---	---	---	---	---	---	20.2	18.9				
3	---	---	---	---	---	---	---	---	---	---	21.1	20.1				
4	---	---	---	---	---	---	---	---	---	---	22.0	21.0				
5	---	---	---	---	---	---	---	---	---	---	22.7	21.5				
6	---	---	---	---	---	---	---	---	---	---	23.7	21.8				
7	---	---	---	---	---	---	---	---	---	---	24.8	22.6				
8	---	---	---	---	---	---	---	---	---	---	24.7	23.3				
9	---	---	---	---	---	---	---	---	---	---	24.0	21.2				
10	---	---	---	---	---	---	---	---	---	---	21.2	19.9				
11	---	---	---	---	---	---	---	---	---	---	20.0	19.3				
12	---	---	---	---	---	---	---	---	---	---	19.6	19.2				
13	---	---	---	---	---	---	---	---	---	---	20.2	19.4				
14	---	---	---	---	---	---	---	---	---	---	20.8	19.9				
15	---	---	---	---	---	---	---	---	---	---	21.5	20.3				
16	---	---	---	---	---	---	---	---	---	---	22.3	21.1				
17	---	---	---	---	---	---	---	---	---	---	23.1	21.8				
18	---	---	---	---	---	---	---	---	---	---	23.2	22.1				
19	---	---	---	---	---	---	---	---	---	---	23.3	22.0				
20	---	---	---	---	---	---	---	---	---	---	23.1	22.0				
21	---	---	---	---	---	---	---	---	---	---	23.0	22.1				
22	---	---	---	---	---	---	---	---	---	---	23.2	22.4				
23	---	---	---	---	---	---	---	---	---	---	23.0	21.6				
24	---	---	---	---	---	---	---	---	21.6	20.1	22.1	20.8				
25	---	---	---	---	---	---	---	---	21.5	19.7	21.2	20.3				
26	---	---	---	---	---	---	---	20.2	19.0	21.0	20.3					
27	---	---	---	---	---	---	---	19.8	19.0	21.1	20.7					
28	---	---	---	---	---	---	---	19.0	16.7	21.4	20.9					
29	---	---	---	---	---	---	---	17.2	16.4	21.8	21.3					
30	---	---	---	---	---	---	---	---	---	22.2	21.7					
31	---	---	---	---	---	---	---	---	---	22.6	22.1					
MONTH	---	---	---	---	---	---	---	---	---	---	24.8	17.2				
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN				
1	22.5	22.0	26.1	22.6	27.2	27.0	29.3	27.5	29.5	27.7	30.7	29.7				
2	22.2	21.4	27.6	25.8	27.4	27.2	29.7	28.9	27.7	26.5	29.8	29.2				
3	21.8	20.9	27.5	26.5	27.6	27.3	29.8	29.0	27.5	26.8	29.9	29.1				
4	21.4	20.3	26.7	25.4	27.9	27.5	30.1	28.9	27.9	27.4	29.3	27.9				
5	21.0	20.2	26.3	24.8	27.8	27.5	30.9	29.4	27.8	27.1	27.9	25.8				
6	20.4	20.1	26.3	24.3	27.6	27.4	30.9	29.7	28.4	27.7	26.6	25.3				
7	20.5	20.2	26.5	24.6	27.5	27.4	30.4	29.3	28.7	28.2	27.0	26.6				
8	20.9	20.4	26.5	24.8	27.5	27.3	30.1	28.4	28.6	27.9	27.6	26.9				
9	21.5	20.8	26.2	25.6	27.4	27.2	30.3	29.1	28.3	27.7	28.3	27.4				
10	21.4	21.1	26.0	25.4	27.7	27.1	30.4	29.5	28.9	28.2	29.0	27.8				
11	21.6	21.2	25.7	25.1	28.0	27.0	30.5	29.8	29.5	28.7	29.4	28.6				
12	22.9	21.2	26.0	24.7	28.8	27.5	29.8	29.3	29.1	28.5	29.4	28.7				
13	23.5	22.6	25.6	25.1	29.4	28.2	29.9	29.2	29.2	26.9	29.2	28.7				
14	22.7	21.5	25.9	25.4	29.3	28.8	30.7	29.7	27.2	25.9	28.9	28.2				
15	21.6	20.2	26.0	25.5	29.2	28.6	30.7	30.0	28.0	26.9	28.2	27.8				
16	21.0	19.6	26.3	25.9	29.4	28.1	30.5	29.4	29.0	27.7	28.4	27.6				
17	20.4	20.0	26.3	26.0	30.1	28.4	29.4	28.6	29.7	28.4	29.5	28.4				
18	20.9	20.4	26.1	25.9	30.4	29.0	28.9	28.1	30.4	29.0	29.7	29.0				
19	21.2	20.8	26.2	26.0	30.6	29.4	29.2	28.4	30.4	29.6	29.7	28.8				
20	21.6	21.0	26.2	26.0	30.8	29.9	28.4	26.9	30.6	29.7	28.8	27.3				
21	21.7	21.4	26.2	26.1	30.7	29.8	27.3	26.4	31.0	30.1	27.3	25.9				
22	22.2	21.5	26.2	26.1	30.6	30.2	28.8	26.8	30.7	30.0	26.1	25.6				
23	22.1	21.8	26.3	26.1	30.8	30.0	29.9	28.1	30.4	29.7	26.7	25.9				
24	22.2	21.8	26.3	26.2	30.0	29.1	30.2	28.8	29.8	29.1	26.9	26.3				
25	22.3	21.9	26.3	26.2	29.7	28.5	30.2	29.4	29.1	28.4	26.9	26.2				
26	22.3	22.1	26.3	26.2	29.7	28.8	30.2	29.3	29.5	28.1	26.2	25.3				
27	22.4	22.1	26.5	26.2	29.8	29.1	29.4	28.6	30.0	29.2	26.0	25.3				
28	22.6	22.2	26.6	26.4	29.9	29.0	29.0	28.5	30.2	29.2	27.2	25.9				
29	22.8	22.3	26.8	26.6	29.5	28.7	29.3	28.2	30.7	29.7	28.2	27.1				
30	22.8	22.4	26.9	26.7	29.0	27.9	29.7	28.5	30.7	30.0	28.8	27.8				
31	---	---	27.1	26.9	---	---	29.7	28.9	31.1	30.3	---	---				
MONTH	23.5	19.6	27.6	22.6	30.8	27.0	30.9	26.4	31.1	25.9	30.7	25.3				

02298202 SHELL CREEK NEAR PUNTA GORDA, FL.

LOCATION.--Lat 26° 59'04", long 81° 56'09" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.20, T.40 S., R.24 E., Charlotte County, Hydrologic Unit 03100101, near left bank 60 ft upstream from dam, 1.0 mi upstream from Myrtle Slough, 6.0 mi upstream from mouth, and 7.7 mi northeast of Punta Gorda.

DRAINAGE AREA.--373 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1965 to September 1987; October 1987 to September 1994 (gage heights only), October 1994 to current year.

REVISED RECORDS.--WRD FL-95-3A: 1995 CFSM, IN. WRD FL-96-3A: 1996 October adjusted mean, (M).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by concrete dam. Diversion by city of Punta Gorda for water supply. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

REVISIONS.--Water year 1998 adjusted mean 1.28 ft<sup>3</sup>/s is in error. Corrected number is 128 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,840	99	52	144	122	552	47	222	23	185	310	1,470
2	1,670	93	49	135	132	449	54	219	19	164	623	1,310
3	1,510	94	45	129	135	386	50	248	29	144	874	1,140
4	1,370	89	41	124	131	327	47	268	49	131	1,020	964
5	1,230	93	46	118	122	267	51	293	54	152	1,170	982
6	e1,180	114	44	114	110	233	49	276	45	156	1,440	1,910
7	1,010	159	45	108	106	206	46	251	45	168	1,810	2,530
8	841	180	45	101	97	185	49	210	58	158	2,060	2,500
9	634	167	45	97	91	166	56	169	86	157	2,110	2,430
10	513	149	49	94	86	147	55	146	118	141	1,880	2,460
11	447	133	51	89	86	134	48	135	134	126	1,640	2,280
12	e395	115	51	89	e83	123	86	113	140	132	1,800	2,170
13	e360	107	52	87	e80	120	90	98	153	127	e1,860	2,020
14	e332	101	65	85	77	99	84	84	187	134	e2,150	1,840
15	e332	96	78	86	108	90	83	77	252	126	e2,330	1,620
16	e288	90	88	87	107	104	83	77	331	138	e2,560	1,410
17	e219	86	174	85	102	101	69	71	333	146	e2,450	1,180
18	213	82	310	109	96	99	60	62	286	133	e2,420	977
19	198	80	342	176	92	94	56	54	240	130	e2,390	841
20	183	82	320	201	91	77	58	54	198	164	e2,280	762
21	171	78	297	199	81	62	51	52	165	222	e2,060	756
22	159	77	291	186	77	63	52	45	134	257	e2,050	793
23	151	72	269	174	78	59	53	43	110	247	e2,130	851
24	152	67	242	157	73	57	48	43	121	214	e2,100	850
25	137	68	223	144	221	54	45	39	143	184	e1,930	788
26	121	67	208	127	598	54	45	37	122	182	e1,790	957
27	119	64	195	117	761	47	54	37	147	196	e1,770	1,410
28	118	66	179	108	756	47	53	36	141	198	e1,870	1,590
29	116	59	162	103	657	52	39	31	161	240	e1,750	1,760
30	111	58	155	103	---	49	45	26	199	285	e1,530	1,830
31	104	---	145	113	---	51	---	25	---	273	1,510	---
TOTAL	16,224	2,885	4,358	3,789	5,356	4,554	1,706	3,541	4,223	5,410	55,667	44,381
MEAN	523	96.2	141	122	185	147	56.9	114	141	175	1,796	1,479
MAX	1,840	180	342	201	761	552	90	293	333	285	2,560	2,530
MIN	104	58	41	85	73	47	39	25	19	126	310	756
(†)	6.9	9.0	8.2	8.1	7.2	4.3	6.5	6.6	5.8	5.8	6.9	7.3
*PREC	0.09	2.17	2.18	1.69	---	0.66	2.43	2.34	7.76	4.10	---	3.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

	440	162	148	154	166	228	100	81.1	465	633	713	787
MEAN	440	162	148	154	166	228	100	81.1	465	633	713	787
MAX	1,707	842	1,552	902	1,391	1,320	499	524	2,253	2,485	2,028	2,325
(WY)	(1996)	(2003)	(2003)	(1970)	(1983)	(1984)	(1970)	(1991)	(1982)	(1974)	(1995)	(1979)
MIN	50.7	13.8	7.51	0.00	0.00	9.08	0.20	0.00	11.1	87.4	157	210
(WY)	(1973)	(1991)	(1991)	(1965)	(1965)	(1981)	(1975)	(1967)	(2000)	(1981)	(1972)	(1972)

ADJUSTED FOR DIVERSION BY CITY OF PUNTA GORDA

	530	105.2	149.2	130.1	192.2	151.3	63	120.6	147	181	1803	1486
MEAN	530	105.2	149.2	130.1	192.2	151.3	63	120.6	147	181	1803	1486
CFSM	1.42	0.28	0.40	0.35	0.52	0.41	0.17	0.32	0.39	0.48	4.83	3.98
IN	1.64	0.31	0.46	0.40	0.56	0.47	0.19	0.37	0.44	0.56	5.57	4.45

OBSERVED

CAL YR	2003	TOTAL	170668.00	MEAN	468	MAX	6410	MIN	22.00	MEAN	474	CFSM	1.27	IN	17.29
WTR YR	2004	TOTAL	152094.00	MEAN	416	MAX	2560	MIN	19.00	MEAN	422	CFSM	1.13	IN	15.42

ADJUSTED

e Estimated

\* Precipitation, total, inches

† Diversion, in cubic feet per second, by City of Punta Gorda, furnished by City of Punta Gorda Water Department

## 02298480 YOUNGS CREEK NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 25'34", long 82° 07'59" (1927 North American datum), in NW $\frac{1}{4}$  sec.20, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, 0.35 mi east of confluence with Myakka River along the Myakka City-Wauchula Road, and 6.0 mi northeast of Myakka City.

DRAINAGE AREA.--5.67 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--February 1999 to current year (miscellaneous measurements only). Records prior to October 2002 were not published, but are available in files of the Geological Survey.

GAGE.--Miscellaneous measurement gage. Datum of gage has not been determined.

## MISCELLANEOUS MEASUREMENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Discharge (ft <sup>3</sup> /s)
Aug. 11	7.0



02298488 MYAKKA RIVER UPSTREAM FROM YOUNGS CREEK NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 25'44", long 82° 08'20" (1927 North American datum), in SE 1/4 sec.18, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, on left bank, 0.15 mi north of Youngs Creek, 0.35 mi west of Myakka City-Wauchula Road, and 5.7 mi northeast of Myakka City.

DRAINAGE AREA.--29.2 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined. Prior to April 26, 2001, at site 250 ft upstream at datum 1.09 ft lower.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	14	3.6	12	25	33	3.7	21	1.2	21	58	169
2	103	11	3.5	10	28	24	4.1	9.9	1.2	33	49	e157
3	76	9.9	3.5	9.5	22	20	3.6	13	1.1	74	86	e225
4	57	9.2	3.4	8.9	17	17	3.3	25	3.4	47	252	e174
5	44	8.8	3.4	8.4	14	14	3.4	17	7.8	25	226	e144
6	35	12	3.4	7.8	12	13	3.1	10	6.0	18	176	e1,040
7	30	26	3.3	7.0	11	12	3.0	7.1	8.2	e25	122	e1,200
8	26	22	3.3	6.5	9.4	10	3.5	5.2	19	e22	116	e597
9	23	18	3.3	6.3	8.5	9.6	2.9	4.0	15	e21	143	e525
10	22	15	3.3	6.4	7.9	10	2.6	3.3	20	20	148	e356
11	20	12	3.5	6.1	7.5	8.9	2.5	2.9	43	15	127	e241
12	20	9.8	3.3	6.0	7.2	7.0	7.3	2.6	30	21	96	e182
13	17	8.3	3.3	5.9	7.0	6.7	12	2.2	17	20	143	e140
14	16	7.1	62	5.7	7.8	6.7	8.1	2.0	15	14	976	e102
15	16	6.3	91	5.5	34	7.7	5.9	1.9	14	11	1,130	e68
16	14	5.7	68	5.4	38	21	4.7	1.9	11	13	524	e43
17	13	5.4	165	5.3	26	35	4.0	1.8	8.3	17	449	e34
18	12	5.1	146	11	19	23	3.8	1.8	6.1	14	272	e34
19	11	6.1	89	17	15	15	4.1	1.7	4.7	110	174	e34
20	11	7.4	56	16	13	12	3.6	1.6	3.7	338	122	e30
21	9.9	6.7	37	12	12	11	2.9	1.5	3.2	388	167	e34
22	9.3	6.1	31	10	10	8.7	3.0	1.5	2.9	241	e197	e34
23	7.2	5.6	29	8.9	9.1	7.0	2.7	1.5	2.6	134	e130	e26
24	6.0	5.1	25	7.9	8.3	6.7	2.4	1.4	2.7	85	e93	e30
25	5.1	4.8	20	7.3	108	6.2	2.3	1.4	3.4	61	e105	e30
26	5.1	4.7	16	7.0	253	5.3	2.4	1.4	4.7	55	e159	e199
27	5.6	4.4	14	10	154	4.7	2.4	1.3	64	37	e222	e415
28	5.3	4.2	13	12	85	4.5	2.3	1.3	97	113	e192	e284
29	31	3.9	13	11	49	4.0	2.1	1.3	44	288	e137	e178
30	28	3.7	14	9.6	---	3.8	4.1	1.2	29	136	122	e123
31	20	---	15	11	---	4.0	---	1.2	---	80	90	---
TOTAL	840.5	268.3	948.1	273.4	1,017.7	371.5	115.8	150.9	489.2	2,497	7,003	6,848
MEAN	27.1	8.94	30.6	8.82	35.1	12.0	3.86	4.87	16.3	80.5	226	228
MAX	142	26	165	17	253	35	12	25	97	388	1,130	1,200
MIN	5.1	3.7	3.3	5.3	7.0	3.8	2.1	1.2	1.1	11	49	26
CFSM	0.93	0.31	1.05	0.30	1.20	0.41	0.13	0.17	0.56	2.76	7.74	7.82
IN.	1.07	0.34	1.21	0.35	1.30	0.47	0.15	0.19	0.62	3.18	8.92	8.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	23.3	7.45	20.9	18.1	13.5	9.13	5.71	4.26	99.9	96.5	107	129
MAX	48.0	13.0	54.1	58.3	35.1	12.8	11.9	12.7	429	177	226	257
(WY)	(2000)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2001)	(2004)	(2001)
MIN	8.56	2.87	2.81	3.54	3.39	3.04	1.12	0.36	0.61	14.6	19.8	49.0
(WY)	(2003)	(2001)	(2002)	(2001)	(2001)	(2000)	(1999)	(2001)	(2000)	(2000)	(2000)	(1999)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1999 - 2004

ANNUAL TOTAL	30,092.1	20,823.4	
ANNUAL MEAN	82.4	56.9	47.0
HIGHEST ANNUAL MEAN			83.2
LOWEST ANNUAL MEAN			19.7
HIGHEST DAILY MEAN	5,300	Jun 22	1,200
LOWEST DAILY MEAN	3.2	May 15	1.1
ANNUAL SEVEN-DAY MINIMUM	3.3	Dec 7	1.2
MAXIMUM PEAK FLOW			Unknown
MAXIMUM PEAK STAGE			Unknown
ANNUAL RUNOFF (CFSM)	2.82	1.95	1.61
ANNUAL RUNOFF (INCHES)	38.34	26.53	21.87
10 PERCENT EXCEEDS	185	150	110
50 PERCENT EXCEEDS	16	12	8.3
90 PERCENT EXCEEDS	4.8	2.9	1.5

e Estimated

\* From high water mark

02298488 MYAKKA RIVER UPSTREAM FROM YOUNGS CREEK NEAR MYAKKA CITY, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44.37	42.06	41.17	42.02	42.68	43.00	41.28	42.58	40.77	42.13	43.49	44.36
2	44.05	41.87	41.16	41.90	42.81	42.69	41.33	41.95	40.75	42.63	43.34	---
3	43.74	41.75	41.14	41.83	42.57	42.49	41.26	42.10	40.75	43.43	43.75	---
4	43.45	41.70	41.14	41.78	42.34	42.36	41.20	42.80	41.11	42.95	44.97	---
5	43.20	41.66	41.14	41.73	42.17	42.22	41.21	42.44	41.80	42.31	44.85	---
6	42.94	41.87	41.14	41.68	42.04	42.13	41.17	42.01	41.58	41.99	44.60	---
7	42.76	42.62	41.12	41.60	41.93	42.09	41.16	41.73	41.81	---	44.22	---
8	42.63	42.48	41.11	41.55	41.82	41.95	41.24	41.52	42.52	---	44.17	---
9	42.52	42.31	41.11	41.53	41.74	41.90	41.14	41.37	42.23	---	44.39	---
10	42.44	42.11	41.12	41.53	41.69	41.94	41.08	41.26	42.51	42.11	44.42	---
11	42.38	41.94	41.14	41.51	41.65	41.86	41.06	41.20	43.28	41.82	44.27	---
12	42.35	41.79	41.12	41.49	41.62	41.68	41.62	41.13	42.89	42.16	43.99	---
13	42.24	41.67	41.11	41.48	41.60	41.66	42.12	41.06	42.31	42.09	44.19	---
14	42.17	41.57	43.02	41.45	41.67	41.66	41.79	41.01	42.20	41.79	46.51	---
15	42.15	41.49	44.02	41.43	43.00	41.76	41.57	41.00	42.12	41.61	46.81	---
16	42.04	41.43	43.71	41.43	43.14	42.44	41.42	40.98	41.95	41.69	45.81	---
17	41.95	41.40	44.60	41.41	42.74	43.15	41.32	40.97	41.72	41.96	45.62	---
18	41.90	41.37	44.48	41.84	42.44	42.71	41.28	40.96	41.50	41.80	45.07	---
19	41.86	41.49	44.00	42.34	42.23	42.32	41.34	40.92	41.32	43.24	44.61	---
20	41.81	41.64	43.54	42.25	42.10	42.10	41.26	40.90	41.19	45.07	44.27	---
21	41.75	41.57	43.12	42.05	41.99	42.00	41.13	40.88	41.09	45.26	44.53	---
22	41.70	41.51	42.91	41.90	41.88	41.85	41.15	40.87	41.03	44.73	---	---
23	41.51	41.44	42.84	41.78	41.79	41.69	41.08	40.85	40.97	44.15	---	---
24	41.38	41.38	42.69	41.69	41.73	41.66	41.02	40.84	41.00	43.72	---	---
25	41.27	41.35	42.45	41.63	43.77	41.60	41.01	40.84	41.12	43.41	---	---
26	41.28	41.33	42.29	41.60	45.04	41.50	41.02	40.83	41.21	43.34	---	---
27	41.34	41.29	42.17	41.86	44.53	41.41	41.04	40.82	43.41	42.99	---	---
28	41.29	41.26	42.08	41.99	43.95	41.40	41.00	40.80	43.72	43.62	---	---
29	42.79	41.22	42.06	41.91	43.43	41.32	40.95	40.79	42.91	45.10	---	---
30	42.69	41.19	42.17	41.84	---	41.29	41.18	40.79	42.47	44.32	44.34	---
31	42.37	---	42.22	41.97	---	41.32	---	40.78	---	43.80	44.05	---
MEAN	42.33	41.66	42.23	41.74	42.49	41.97	41.25	41.26	41.84	---	---	---
MAX	44.37	42.62	44.60	42.34	45.04	43.15	42.12	42.80	43.72	---	---	---
MIN	41.27	41.19	41.11	41.41	41.60	41.29	40.95	40.78	40.75	---	---	---

02298492 LONG CREEK NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 24'33", long 82° 07'36" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.29, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, on right bank, 0.4 mi northeast of Myakka City-Wauchula Road, 1.5 mi northeast of confluence with Myakka River, and 5.0 mi northeast of Myakka City.

DRAINAGE AREA.--6.05 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e51	6.4	2.9	5.4	11	19	2.3	6.7	0.07	4.0	14	176
2	e35	6.0	2.9	5.1	12	15	2.2	4.9	0.04	3.4	13	89
3	25	5.7	2.9	4.9	11	12	2.0	8.6	0.02	3.8	15	64
4	19	5.4	2.8	4.7	8.7	11	1.7	12	0.03	3.5	25	42
5	15	5.3	3.0	4.4	7.1	9.7	1.6	9.8	0.19	3.4	42	115
6	13	5.9	3.0	4.4	6.5	8.9	2.0	7.3	0.33	6.4	37	583
7	11	6.1	2.9	4.0	6.1	8.5	1.7	5.2	0.50	11	26	380
8	9.6	5.7	2.8	3.8	6.0	8.1	1.4	4.0	0.57	7.7	20	211
9	8.6	5.3	2.8	3.8	5.8	6.6	1.4	2.9	e0.63	5.5	32	133
10	7.9	5.0	2.8	3.8	5.9	5.5	1.5	2.1	e4.9	4.4	25	89
11	7.5	4.7	3.1	3.6	6.2	4.7	1.4	1.7	e7.3	3.9	21	61
12	7.0	4.5	2.9	3.4	5.6	4.4	4.7	1.2	e4.3	5.5	25	45
13	6.7	4.4	2.9	3.6	4.9	4.4	5.5	0.94	e2.2	4.1	83	34
14	6.3	4.3	2.0	4.1	5.5	4.3	3.6	0.84	e6.1	3.3	516	26
15	6.4	4.1	2.0	4.1	1.9	3.9	2.9	0.73	e8.2	2.7	370	20
16	6.3	3.9	3.1	4.3	15	7.2	2.7	0.66	e5.2	4.1	214	16
17	5.4	3.8	7.9	4.1	14	8.0	2.4	0.63	e3.1	6.6	260	13
18	5.5	3.7	6.0	7.3	11	7.0	2.1	0.86	e2.2	5.2	139	12
19	5.0	4.2	4.0	8.0	10	6.2	2.0	0.74	1.8	25	242	10
20	4.6	4.5	2.4	7.1	9.4	5.3	2.1	0.60	1.4	119	108	9.0
21	4.4	4.1	1.7	6.5	9.0	4.4	2.2	0.52	1.2	114	67	9.0
22	4.4	3.9	1.4	5.8	9.2	3.8	2.0	0.47	0.93	56	49	9.1
23	4.7	3.7	1.2	5.3	9.5	3.3	1.6	0.42	0.71	30	43	8.3
24	4.7	3.6	1.0	4.9	9.1	2.8	1.2	0.35	0.68	16	154	7.6
25	4.2	3.6	9.3	4.6	6.9	2.7	1.1	0.31	1.4	23	183	6.3
26	3.8	3.6	8.2	4.3	11.0	2.8	1.1	0.26	1.5	26	102	121
27	3.8	3.5	7.3	5.1	7.6	2.8	1.1	0.24	5.0	13	79	253
28	4.0	3.4	6.8	5.4	4.5	3.1	1.2	0.20	4.2	26	50	123
29	10	3.2	6.4	5.3	2.7	3.3	0.99	0.18	3.6	6.9	36	7.4
30	7.5	3.0	6.0	5.3	---	2.8	2.0	0.16	3.3	4.2	2.7	4.9
31	7.0	---	5.6	6.2	---	2.4	---	0.12	---	2.4	5.3	---
TOTAL	314.3	134.5	414.3	152.6	544.5	193.9	61.69	75.63	71.60	671.5	3,070	2,788.3
MEAN	10.1	4.48	13.4	4.92	18.8	6.25	2.06	2.44	2.39	21.7	99.0	92.9
MAX	51	6.4	7.9	8.0	11.0	1.9	5.5	1.2	8.2	11.9	51.6	58.3
MIN	3.8	3.0	2.8	3.4	4.9	2.4	0.99	0.12	0.02	2.7	1.3	6.3
CFSM	1.68	0.74	2.21	0.81	3.10	1.03	0.34	0.40	0.39	3.58	16.4	15.4
IN.	1.93	0.83	2.55	0.94	3.35	1.19	0.38	0.47	0.44	4.13	18.88	17.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	8.71	3.97	9.92	6.97	7.36	5.92	5.07	3.33	24.3	36.7	39.8	49.2
MEAN	8.71	3.97	9.92	6.97	7.36	5.92	5.07	3.33	24.3	36.7	39.8	49.2
MAX	21.6	6.68	24.1	16.7	18.8	10.8	11.3	10.8	82.8	93.6	99.0	95.1
(WY)	(2000)	(2003)	(2003)	(2003)	(2004)	(2001)	(2003)	(2003)	(2003)	(2001)	(2004)	(2001)
MIN	2.24	1.23	1.90	3.95	2.92	2.65	1.28	0.51	2.32	12.6	11.7	10.4
(WY)	(2003)	(2001)	(2002)	(2001)	(1999)	(1999)	(1999)	(2000)	(2000)	(1999)	(2002)	(1999)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1999 - 2004

ANNUAL TOTAL	9,147.1	8,492.82	
ANNUAL MEAN	25.1	23.2	18.5
HIGHEST ANNUAL MEAN			25.5
LOWEST ANNUAL MEAN			11.1
HIGHEST DAILY MEAN	450	583	658
LOWEST DAILY MEAN	1.6	0.02	0.00
ANNUAL SEVEN-DAY MINIMUM	2.2	0.09	0.00
MAXIMUM PEAK FLOW		700	1,000
MAXIMUM PEAK STAGE		47.20	47.67
ANNUAL RUNOFF (CFSM)	4.14	3.84	3.07
ANNUAL RUNOFF (INCHES)	56.24	52.22	41.66
10 PERCENT EXCEEDS	66	54	43
50 PERCENT EXCEEDS	7.3	5.4	4.9
90 PERCENT EXCEEDS	3.1	1.2	1.1

e Estimated

02298492 LONG CREEK NEAR MYAKKA CITY, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	42.46	42.17	42.45	42.86	43.05	42.34	42.71	41.90	42.52	43.19	45.61
2	---	42.43	42.17	42.43	42.91	42.89	42.32	42.57	41.86	42.46	43.10	44.84
3	43.36	42.41	42.17	42.42	42.85	42.80	42.30	42.81	41.81	42.50	43.22	44.50
4	43.14	42.39	42.16	42.40	42.72	42.75	42.27	43.04	41.83	42.47	43.59	44.12
5	42.97	42.38	42.17	42.39	42.63	42.69	42.26	42.91	42.00	42.47	44.08	44.74
6	42.85	42.42	42.18	42.38	42.58	42.66	42.30	42.76	42.08	42.64	43.96	46.98
7	42.75	42.45	42.16	42.36	42.56	42.65	42.27	42.61	42.15	42.99	43.66	46.51
8	42.67	42.41	42.16	42.34	42.54	42.65	42.25	42.53	42.18	42.80	43.42	45.85
9	42.61	42.38	42.15	42.35	42.53	42.57	42.24	42.44	---	42.65	43.85	45.30
10	42.57	42.36	42.16	42.35	42.54	42.50	42.26	42.38	---	42.55	43.63	44.86
11	42.54	42.33	42.18	42.33	42.56	42.46	42.24	42.35	---	42.51	43.49	44.49
12	42.51	42.31	42.17	42.32	42.51	42.45	42.54	42.31	---	42.64	43.61	44.21
13	42.49	42.30	42.17	42.34	42.46	42.48	42.62	42.28	---	42.53	44.13	43.94
14	42.46	42.29	43.04	42.39	42.49	42.48	42.46	42.25	---	42.45	46.83	43.70
15	42.46	42.27	43.17	42.39	43.21	42.47	42.40	42.23	---	42.40	46.45	43.51
16	42.46	42.26	43.48	42.41	43.03	42.71	42.37	42.20	---	42.51	45.82	43.34
17	42.39	42.25	44.42	42.38	42.94	42.80	42.35	42.19	---	42.73	46.06	43.21
18	42.40	42.24	44.15	42.61	42.81	42.74	42.32	42.26	---	42.62	45.32	43.11
19	42.36	42.29	43.77	42.69	42.72	42.68	42.30	42.22	42.33	43.41	45.97	43.03
20	42.32	42.31	43.32	42.62	42.65	42.61	42.31	42.18	42.29	44.94	45.03	42.96
21	42.30	42.28	43.06	42.58	42.60	42.54	42.32	42.16	42.25	44.93	44.53	42.96
22	42.30	42.26	42.94	42.53	42.59	42.48	42.31	42.14	42.21	44.33	44.23	42.97
23	42.33	42.24	42.86	42.49	42.59	42.43	42.26	42.12	42.17	43.76	44.13	42.93
24	42.33	42.23	42.75	42.45	42.54	42.39	42.22	42.09	42.16	43.25	45.41	42.89
25	42.29	42.23	42.68	42.43	43.97	42.38	42.20	42.07	42.27	43.51	45.65	42.80
26	42.25	42.23	42.62	42.41	44.65	42.38	42.20	42.05	42.27	43.62	44.98	44.41
27	42.25	42.23	42.57	42.47	44.26	42.39	42.20	42.03	42.61	43.10	44.71	46.05
28	42.27	42.21	42.54	42.50	43.77	42.42	42.22	42.01	42.54	43.40	44.26	45.24
29	42.71	42.19	42.51	42.49	43.33	42.43	42.19	41.99	42.48	44.53	43.97	44.70
30	42.54	42.17	42.48	42.49	---	42.39	42.29	41.98	42.46	44.07	43.72	44.31
31	42.51	---	42.47	42.56	---	42.35	---	41.95	---	43.57	44.00	---
MEAN	---	42.31	42.68	42.44	42.91	42.57	42.30	42.32	---	43.12	44.45	44.27
MAX	---	42.46	44.42	42.69	44.65	43.05	42.62	43.04	---	44.94	46.83	46.98
MIN	---	42.17	42.15	42.32	42.46	42.35	42.19	41.95	---	42.40	43.10	42.80

## 02298494 FLATFORD SWAMP NEAR MYAKKA RIVER NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 23'37", long 82° 08'33" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.31, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, 0.5 mi west of Myakka City-Wauchula Road, and 4.0 mi north of Myakka City.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--March 1999 to current year (gage-heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 45.69 ft, June 22, 23, 2003; minimum observed, 38.97 ft, June 9, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 43.55 ft, Sept. 7; minimum, 40.18 ft, June 4.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.68	40.86	40.58	40.80	40.88	41.26	40.68	40.65	40.27	40.89	41.38	41.78
2	41.58	40.87	40.56	40.80	40.90	41.17	40.66	40.62	40.24	40.87	41.28	41.88
3	41.47	40.85	40.55	40.79	40.95	41.09	40.64	40.66	40.21	40.84	41.26	41.75
4	41.38	40.84	40.53	40.78	40.97	41.04	40.62	40.82	40.25	40.84	41.37	41.65
5	41.30	40.82	40.53	40.77	40.95	41.00	40.61	40.88	40.33	40.92	41.68	41.67
6	41.24	40.81	40.51	40.75	40.92	40.96	40.59	40.91	40.34	40.96	41.71	42.89
7	41.18	40.80	40.50	40.74	40.90	40.93	40.57	40.90	40.39	41.03	41.65	43.50
8	41.12	40.78	40.49	40.72	40.87	40.91	40.56	40.87	40.40	41.01	41.57	43.11
9	41.07	40.78	40.48	40.71	40.85	40.89	40.54	40.83	40.41	40.99	41.56	42.66
10	41.03	40.80	40.48	40.71	40.83	40.87	40.52	40.80	40.47	40.96	41.58	42.39
11	40.99	40.81	40.47	40.69	40.81	40.85	40.51	40.77	40.62	40.98	41.56	42.20
12	40.96	40.81	40.46	40.68	40.80	40.83	40.60	40.73	40.75	41.09	41.55	41.98
13	40.94	40.79	40.45	40.67	40.79	40.82	40.63	40.70	40.83	40.97	41.58	41.79
14	40.91	40.77	40.66	40.66	40.80	40.80	40.62	40.68	40.87	40.87	42.43	41.65
15	40.90	40.75	40.89	40.65	40.92	40.78	40.61	40.65	40.85	40.81	43.25	41.54
16	40.87	40.73	41.13	40.65	40.95	40.83	40.62	40.63	40.80	40.81	42.97	41.44
17	40.84	40.71	41.36	40.64	41.02	40.88	40.62	40.62	40.76	40.86	42.86	41.37
18	40.82	40.69	41.47	40.70	41.04	40.94	40.63	40.63	40.73	40.85	42.52	41.30
19	40.80	40.70	41.40	40.76	41.01	41.00	40.62	40.61	40.69	40.96	42.22	41.24
20	40.78	40.70	41.28	40.79	40.97	41.00	40.62	40.58	40.66	41.41	42.03	41.20
21	40.76	40.67	41.17	40.81	40.94	40.97	40.60	40.56	40.62	41.92	41.80	41.18
22	40.74	40.66	41.09	40.83	40.91	40.94	40.59	40.53	40.59	41.88	41.64	41.15
23	40.72	40.64	41.03	40.83	40.89	40.90	40.57	40.50	40.56	41.65	41.53	41.12
24	40.70	40.63	40.98	40.81	40.87	40.87	40.55	40.48	40.53	41.44	41.76	41.09
25	40.68	40.64	40.96	40.80	41.07	40.84	40.54	40.46	40.51	41.33	42.23	41.06
26	40.67	40.63	40.93	40.78	41.51	40.81	40.52	40.43	40.51	41.30	42.06	41.30
27	40.65	40.62	40.90	40.78	41.70	40.78	40.51	40.41	40.64	41.25	41.83	42.34
28	40.65	40.61	40.87	40.77	41.56	40.76	40.50	40.38	40.65	41.23	41.67	42.48
29	40.79	40.60	40.85	40.76	41.39	40.74	40.48	40.35	40.88	41.53	41.55	42.16
30	40.79	40.59	40.83	40.77	---	40.72	40.51	40.32	40.93	41.71	41.45	41.89
31	40.82	---	40.81	40.81	---	40.70	---	40.30	---	41.53	41.41	---
MEAN	40.96	40.73	40.81	40.75	41.00	40.90	40.58	40.62	40.58	41.15	41.84	41.83
MAX	41.68	40.87	41.47	40.83	41.70	41.26	40.68	40.91	40.93	41.92	43.25	43.50
MIN	40.65	40.59	40.45	40.64	40.79	40.70	40.48	40.30	40.21	40.81	41.26	41.06

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 23'03", long 82° 07'48" (1927 North American datum), in SW 1/4 sec.32, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, on right bank approximately 1.0 mi east of the confluence with the Myakka River, approximately 0.5 mi east of the Myakka City-Wauchula Road, and approximately 3.5 mi northeast of Myakka City.

DRAINAGE AREA.--3.93 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those above 200 ft<sup>3</sup>/s which are considered poor due to poor rating definition.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	2.9	0.44	2.3	8.3	5.4	0.39	4.1	0.28	1.5	5.7	104
2	15	2.5	0.36	2.1	6.1	4.4	0.27	2.4	0.14	5.9	6.8	45
3	10	2.4	0.31	2.1	4.2	3.9	0.23	2.9	0.07	20	22	30
4	8.5	2.4	0.31	2.2	3.4	3.6	0.20	4.7	0.34	5.0	47	17
5	7.3	2.4	0.38	2.7	2.9	3.1	0.18	2.5	0.76	2.9	32	66
6	6.4	2.6	0.42	2.6	2.8	3.0	0.15	1.7	0.48	9.0	16	317
7	5.6	2.6	0.43	2.2	2.7	3.2	0.12	1.2	0.45	41	10	162
8	5.1	2.4	0.45	2.3	2.4	3.3	0.16	0.99	0.52	11	10	79
9	4.6	2.1	0.45	2.1	2.2	2.7	0.12	0.79	1.9	4.5	20	52
10	4.1	1.8	0.51	2.0	2.3	2.6	0.11	0.68	7.5	2.8	11	40
11	4.0	1.6	0.52	2.0	2.4	2.4	0.10	0.64	13	11	8.4	26
12	3.7	1.4	0.46	2.0	2.3	2.4	2.5	0.63	4.8	58	34	16
13	3.5	1.3	0.36	1.8	2.7	2.4	6.3	0.43	2.9	16	74	12
14	3.3	1.2	19	1.7	3.6	2.3	3.0	0.34	7.7	5.4	268	10
15	3.2	1.1	17	1.6	24	1.9	2.0	0.27	13	3.7	157	8.5
16	2.9	0.99	12	1.8	9.5	4.9	1.5	0.22	6.0	5.8	70	7.2
17	2.7	0.91	65	2.1	5.5	8.2	1.2	0.20	3.4	17	137	5.9
18	2.5	0.95	25	5.8	4.2	3.9	0.99	0.31	2.3	8.6	71	4.8
19	2.3	1.1	10	7.4	3.8	2.6	0.81	0.38	1.7	28	74	3.9
20	2.2	1.3	6.9	4.5	3.7	2.0	0.66	0.40	1.2	80	52	3.4
21	2.1	1.2	7.2	3.3	3.5	1.6	0.71	0.49	0.94	60	29	4.1
22	2.0	1.0	6.5	3.3	3.6	1.4	0.50	0.41	0.68	20	17	6.0
23	2.0	0.98	5.1	2.6	3.7	1.1	0.43	0.43	0.47	8.5	13	5.0
24	1.9	0.95	4.3	2.2	3.1	0.92	0.38	0.43	0.34	5.5	15	3.8
25	1.8	0.92	3.8	2.1	58	0.82	0.35	0.52	0.29	8.9	19	3.1
26	1.7	0.74	3.3	2.0	63	0.78	0.32	0.15	0.53	38	16	102
27	1.7	0.65	3.0	2.2	22	0.74	0.32	0.11	3.4	14	17	155
28	1.7	0.58	2.8	2.1	9.9	0.71	0.40	0.10	3.0	22	13	54
29	5.0	0.49	2.6	2.0	6.9	0.60	0.22	0.22	2.1	38	9.8	24
30	4.5	0.41	2.5	2.0	---	0.44	0.66	0.31	1.8	16	7.6	14
31	3.6	---	2.4	3.0	---	0.37	---	0.31	---	8.2	15	---
TOTAL	154.9	43.87	203.80	80.1	272.7	77.68	25.28	29.26	81.99	576.2	1,297.3	1,380.7
MEAN	5.00	1.46	6.57	2.58	9.40	2.51	0.84	0.94	2.73	18.6	41.8	46.0
MAX	30	2.9	65	7.4	63	8.2	6.3	4.7	13	80	268	317
MIN	1.7	0.41	0.31	1.6	2.2	0.37	0.10	0.10	0.07	1.5	5.7	3.1
CFSM	1.27	0.37	1.67	0.66	2.39	0.64	0.21	0.24	0.70	4.73	10.6	11.7
IN.	1.47	0.42	1.93	0.76	2.58	0.74	0.24	0.28	0.78	5.45	12.28	13.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	4.20	3.64	5.20	4.73	4.98	3.75	2.67	1.58	20.7	21.5	18.2	30.5
MAX	9.11	10.4	12.6	8.50	12.2	9.32	8.60	5.51	67.8	55.5	41.8	46.7
(WY)	(2000)	(2003)	(2003)	(2003)	(2002)	(2001)	(2003)	(2003)	(2003)	(2001)	(2004)	(2001)
MIN	1.91	0.83	1.26	2.49	1.98	0.85	0.26	0.00	2.73	6.77	6.30	7.70
(WY)	(2001)	(2001)	(2001)	(2001)	(1999)	(1999)	(1999)	(2000)	(2004)	(1999)	(2002)	(1999)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1999 - 2004

ANNUAL TOTAL	5,305.32	4,223.78	
ANNUAL MEAN	14.5	11.5	11.1
HIGHEST ANNUAL MEAN			15.6
LOWEST ANNUAL MEAN			8.17
HIGHEST DAILY MEAN	543	317	543
LOWEST DAILY MEAN	0.00	0.07	0.00
ANNUAL SEVEN-DAY MINIMUM	0.11	0.13	0.00
MAXIMUM PEAK FLOW		380	940
MAXIMUM PEAK STAGE		45.19	45.82
ANNUAL RUNOFF (CFSM)	3.70	2.94	2.82
ANNUAL RUNOFF (INCHES)	50.22	39.98	38.35
10 PERCENT EXCEEDS	31	25	25
50 PERCENT EXCEEDS	2.8	2.7	2.5
90 PERCENT EXCEEDS	0.67	0.38	0.18

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42.66	41.11	40.71	41.12	41.94	41.61	40.69	41.42	40.45	40.94	41.65	43.91
2	42.34	41.04	40.68	41.09	41.70	41.48	40.62	41.14	40.34	41.37	41.77	43.26
3	42.12	41.03	40.66	41.07	41.45	41.40	40.59	41.21	40.25	42.60	42.49	42.99
4	41.92	41.05	40.67	41.10	41.32	41.36	40.56	41.52	40.40	41.56	43.29	42.60
5	41.76	41.06	40.71	41.19	41.24	41.28	40.55	41.15	40.70	41.24	43.03	43.15
6	41.63	41.10	40.73	41.18	41.21	41.27	40.52	40.98	40.58	41.60	42.54	44.98
7	41.51	41.11	40.74	41.11	41.21	41.29	40.49	40.86	40.55	43.18	42.12	44.30
8	41.42	41.08	40.75	41.12	41.13	41.30	40.51	40.78	40.59	42.15	42.10	43.67
9	41.34	41.03	40.75	41.08	41.10	41.20	40.49	40.71	40.95	41.49	42.73	43.38
10	41.28	40.97	40.78	41.06	41.12	41.18	40.48	40.67	41.85	41.22	42.20	43.18
11	41.26	40.93	40.78	41.06	41.13	41.15	40.46	40.65	42.31	41.63	41.93	42.90
12	41.22	40.89	40.75	41.06	41.12	41.15	41.10	40.64	41.53	43.44	43.07	42.57
13	41.18	40.87	40.70	41.02	41.19	41.15	41.72	40.55	41.24	42.43	43.25	42.29
14	41.15	40.85	42.20	40.98	41.31	41.12	41.26	40.49	41.85	41.61	44.80	42.10
15	41.13	40.84	42.48	40.96	42.82	41.04	41.05	40.45	42.31	41.37	44.25	41.96
16	41.08	40.80	42.04	41.00	42.05	41.44	40.94	40.41	41.68	41.59	43.57	41.83
17	41.04	40.78	43.53	41.09	41.63	41.93	40.86	40.39	41.32	42.60	44.15	41.68
18	41.00	40.80	42.83	41.61	41.44	41.44	40.78	40.48	41.11	41.96	43.59	41.54
19	40.97	40.87	42.12	41.84	41.40	41.24	40.72	40.52	40.98	42.58	43.64	41.40
20	40.93	40.94	41.79	41.49	41.38	41.14	40.66	40.53	40.86	43.70	43.36	41.32
21	40.91	40.90	41.83	41.31	41.35	41.07	40.67	40.57	40.76	43.45	42.96	41.43
22	40.89	40.87	41.75	41.32	41.36	41.04	40.58	40.54	40.67	42.66	42.61	41.70
23	40.89	40.86	41.58	41.18	41.38	40.99	40.55	40.55	40.57	41.95	42.34	41.56
24	40.87	40.86	41.46	41.10	41.27	40.93	40.52	40.55	40.49	41.62	42.51	41.39
25	40.85	40.86	41.38	41.07	43.17	40.89	40.50	40.57	40.46	41.85	42.70	41.28
26	40.84	40.80	41.31	41.05	43.50	40.88	40.48	40.35	40.53	43.14	42.53	43.00
27	40.82	40.78	41.26	41.10	42.74	40.86	40.48	40.31	41.32	42.43	42.58	44.24
28	40.83	40.75	41.22	41.08	42.09	40.85	40.52	40.29	41.25	42.77	42.37	43.42
29	41.40	40.72	41.19	41.05	41.79	40.80	40.41	40.40	41.08	43.15	42.08	42.89
30	41.35	40.69	41.16	41.06	---	40.72	40.55	40.48	41.02	42.50	41.87	42.49
31	41.22	---	41.14	41.25	---	40.68	---	40.47	---	41.93	42.04	---
MEAN	41.28	40.91	41.34	41.15	41.64	41.16	40.68	40.67	41.00	42.18	42.78	42.61
MAX	42.66	41.11	43.53	41.84	43.50	41.93	41.72	41.52	42.31	43.70	44.80	44.98
MIN	40.82	40.69	40.66	40.96	41.10	40.68	40.41	40.29	40.25	40.94	41.65	41.28

## 02298527 OGLEBY CREEK DOWNSTREAM FROM BOGGY CREEK NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 24'12", long 82° 10'55" (1927 North American datum), in SW<sup>1/4</sup> sec.26, T.35 S., R.21 E., Manatee County, Hydrologic Unit 03100102, on downstream center bridge piling, 0.2 mi east of confluence of Ogleby and Boggy Creeks, 3.3 mi north of State Highway 70, and 4.0 mi northwest of Myakka City.

DRAINAGE AREA.--8.71 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e171	9.4	2.0	9.4	18	63	0.95	22	0.46	30	83	201
2	e148	7.1	2.4	8.2	18	46	1.4	8.7	0.04	50	68	115
3	e127	6.2	1.9	7.5	20	29	0.87	7.7	0.00	37	79	86
4	e105	5.7	1.7	8.1	21	20	0.78	11	0.17	25	153	65
5	e88	5.9	2.9	7.2	15	15	0.60	5.7	0.22	20	187	123
6	e74	13	2.0	6.8	12	12	1.1	3.2	20	27	206	706
7	e64	22	3.4	5.7	9.7	10	1.7	2.8	51	71	208	732
8	54	17	4.7	4.1	7.9	8.4	1.4	3.1	24	60	220	593
9	43	14	2.9	3.6	6.3	6.5	1.4	1.9	14	35	253	508
10	32	11	2.0	3.5	5.2	5.1	1.0	1.4	13	25	202	502
11	27	10	2.0	4.9	4.5	5.4	0.78	1.3	26	21	161	391
12	22	8.8	1.6	3.4	4.1	3.6	9.7	1.5	13	51	134	301
13	20	7.6	1.5	2.7	5.2	3.4	10	1.9	9.5	50	151	232
14	17	7.5	64	2.2	6.0	3.8	4.9	1.3	11	35	462	184
15	14	8.1	64	2.1	32	5.4	2.7	0.84	11	24	581	146
16	12	5.6	64	2.0	32	18	1.8	0.97	15	19	480	117
17	10	4.6	144	1.8	32	20	1.2	1.8	11	18	576	97
18	9.9	4.0	104	10	25	12	1.1	2.7	6.7	17	394	87
19	10	5.4	92	14	21	7.9	1.2	1.5	4.5	86	319	70
20	7.6	7.0	88	11	17	5.8	1.3	0.93	3.7	240	278	52
21	7.3	5.5	78	8.5	14	4.7	1.1	0.59	3.0	289	222	54
22	5.9	4.6	61	7.0	12	4.7	0.62	0.69	2.2	213	190	61
23	5.5	4.0	48	6.2	11	4.5	0.88	1.3	1.6	162	188	51
24	4.8	3.5	35	5.9	10	4.4	0.85	1.1	1.1	128	154	41
25	4.3	3.4	27	4.9	92	3.0	1.4	0.50	0.70	108	134	42
26	5.0	3.5	22	4.0	137	2.2	1.8	0.17	1.6	110	107	226
27	7.1	3.2	20	6.8	121	2.6	2.1	0.23	38	88	85	503
28	5.4	2.8	18	7.9	102	2.8	2.5	0.81	38	81	66	462
29	39	2.4	15	6.0	81	2.0	1.5	0.35	27	111	56	349
30	22	2.1	13	5.1	---	1.8	2.1	0.19	48	102	53	242
31	14	---	11	6.4	---	0.91	---	0.57	---	98	65	---
TOTAL	1,175.8	214.9	999.0	186.9	891.9	333.91	60.73	88.74	395.49	2,431	6,515	7,339
MEAN	37.9	7.16	32.2	6.03	30.8	10.8	2.02	2.86	13.2	78.4	210	245
MAX	171	22	144	14	137	63	10	22	51	289	581	732
MIN	4.3	2.1	1.5	1.8	4.1	0.91	0.60	0.17	0.00	17	53	41
CFSM	4.35	0.82	3.70	0.69	3.53	1.24	0.23	0.33	1.51	9.00	24.1	28.1
IN.	5.02	0.92	4.27	0.80	3.81	1.43	0.26	0.38	1.69	10.38	27.83	31.34

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
MEAN	19.5	5.29	19.5	11.5	9.08	6.40	5.90	5.14	65.7	88.3	117	120
MAX	37.9	12.9	60.8	43.4	30.8	10.8	17.6	21.1	237	191	210	245
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2004)	(2001)	(2003)	(2003)	(2001)	(2004)	(2004)
MIN	8.42	0.74	0.58	0.67	0.81	1.52	0.03	0.00	0.00	6.01	18.1	37.0
(WY)	(2003)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(1999)

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	24,404.34		20,632.37			
ANNUAL MEAN	66.9		56.4		41.2	
HIGHEST ANNUAL MEAN					67.3	
LOWEST ANNUAL MEAN					9.35	
HIGHEST DAILY MEAN	1,860	Jun 22	732	Sep 7	1,900	Sep 15, 2001
LOWEST DAILY MEAN	0.37	Apr 16	0.00	Jun 3	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	1.1	Apr 11	0.24	May 30	0.00	Apr 13, 1999
MAXIMUM PEAK FLOW			757		2,040	
MAXIMUM PEAK STAGE			47.15		48.43	
ANNUAL RUNOFF (CFSM)	7.68		6.47		4.73	
ANNUAL RUNOFF (INCHES)	104.23		88.12		64.20	
10 PERCENT EXCEEDS	149		161		108	
50 PERCENT EXCEEDS	14		10		5.7	
90 PERCENT EXCEEDS	2.8		1.3		0.37	

e Estimated



02298527 OGLEBY CREEK DOWNSTREAM FROM BOGGY CREEK NEAR MYAKKA CITY, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	42.97	42.45	43.06	43.47	44.37	42.79	43.69	42.37	43.65	44.37	45.24
2	---	42.86	42.50	43.01	43.48	44.15	42.86	43.26	42.18	43.98	44.20	44.66
3	---	42.80	42.44	42.98	43.53	43.87	42.78	43.21	42.11	43.77	44.31	44.40
4	---	42.77	42.41	43.02	43.54	43.66	42.76	43.38	42.25	43.52	44.95	44.17
5	---	42.79	42.55	42.98	43.37	43.53	42.73	43.15	42.28	43.40	45.17	44.54
6	---	43.06	42.46	42.96	43.26	43.46	42.81	42.97	42.82	43.51	45.28	47.02
7	---	43.39	42.59	42.90	43.18	43.40	42.91	42.95	43.95	44.25	45.29	47.09
8	44.03	43.25	42.71	42.79	43.09	43.34	42.87	43.01	43.51	44.11	45.35	46.73
9	43.86	43.15	42.56	42.76	43.00	43.26	42.87	42.82	43.21	43.72	45.53	46.49
10	43.67	43.06	42.45	42.76	42.93	43.19	42.80	42.69	43.20	43.51	45.26	46.47
11	43.55	43.01	42.45	42.87	42.88	43.23	42.76	42.66	43.56	43.41	45.01	46.10
12	43.45	42.95	42.40	42.76	42.85	43.12	43.40	42.75	43.19	43.99	44.82	45.74
13	43.39	42.88	42.38	42.70	42.93	43.11	43.51	42.85	43.05	43.97	44.88	45.42
14	43.31	42.88	43.74	42.65	42.97	43.13	43.22	42.66	43.10	43.73	46.33	45.15
15	43.22	42.91	44.11	42.63	43.79	43.25	43.03	42.51	43.09	43.50	46.70	44.90
16	43.13	42.77	44.09	42.63	43.81	43.65	42.92	42.56	43.26	43.36	46.40	44.68
17	43.06	42.70	44.85	42.61	43.81	43.84	42.84	42.81	43.10	43.33	46.68	44.51
18	43.05	42.65	44.53	43.06	43.66	43.56	42.82	43.00	42.91	43.29	46.11	44.41
19	43.06	42.74	44.42	43.36	43.54	43.40	42.84	42.73	42.76	44.17	45.82	44.23
20	42.93	42.85	44.40	43.24	43.44	43.28	42.84	42.54	42.70	45.43	45.64	43.99
21	42.92	42.76	44.29	43.12	43.36	43.21	42.81	42.42	42.64	45.69	45.37	44.02
22	42.84	42.70	44.10	43.04	43.29	43.20	42.74	42.46	42.55	45.31	45.18	44.12
23	42.81	42.65	43.92	42.99	43.23	43.19	42.78	42.66	42.46	45.01	45.17	43.99
24	42.76	42.61	43.71	42.98	43.19	43.18	42.77	42.61	42.38	44.77	44.96	43.83
25	42.73	42.60	43.56	42.91	44.43	43.06	42.86	42.39	42.32	44.61	44.81	43.85
26	42.77	42.61	43.45	42.84	44.94	42.98	42.93	42.27	42.37	44.63	44.60	45.04
27	42.91	42.58	43.41	43.01	44.85	43.02	42.95	42.28	43.79	44.42	44.39	46.48
28	42.80	42.54	43.35	43.09	44.72	43.04	43.02	42.50	43.79	44.35	44.18	46.35
29	43.72	42.50	43.24	42.98	44.55	42.95	42.88	42.33	43.55	44.63	44.05	45.95
30	43.39	42.47	43.18	42.92	---	42.92	42.86	42.28	43.95	44.55	44.02	45.53
31	43.15	---	43.14	43.00	---	42.78	---	42.42	---	44.51	44.11	---
MEAN	---	42.82	43.29	42.92	43.55	43.33	42.90	42.74	42.95	44.13	45.13	45.17
MAX	---	43.39	44.85	43.36	44.94	44.37	43.51	43.69	43.95	45.69	46.70	47.09
MIN	---	42.47	42.38	42.61	42.85	42.78	42.73	42.27	42.11	43.29	44.02	43.83

02298530 COKER CREEK NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 24'34", long 82° 10'31"(1927 North American datum), in NE 1/4 sec.26, T.35 S., R.21 E., Manatee County, Hydrologic Unit 03100102, on right bank, 0.25 mi upstream of confluence with Ogleby Creek, 3.7 mi north of State Highway 70, and 4.2 mi northwest of Myakka City.

DRAINAGE AREA.--6.59 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records good except those for discharges above 1000 ft<sup>3</sup>/s, which are considered poor due to poor rating definition.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	89	6.2	2.9	7.2	13	41	6.3	34	1.1	45	52	162
2	66	5.8	2.7	6.8	14	34	8.3	13	1.1	70	44	88
3	51	5.3	2.6	6.4	11	25	8.7	12	1.1	42	57	75
4	40	4.9	2.5	6.1	9.2	20	8.8	18	1.1	29	125	65
5	32	5.0	2.5	6.4	8.5	19	6.4	9.8	1.3	24	139	106
6	25	7.1	2.4	6.0	8.2	16	6.1	6.2	9.0	30	106	399
7	22	14	3.1	5.3	7.8	14	7.4	5.0	26	68	80	384
8	19	11	3.8	4.9	7.0	12	6.9	4.5	31	53	79	278
9	18	7.4	2.8	5.2	6.4	11	6.0	3.9	17	37	78	226
10	18	8.2	2.3	4.8	6.2	12	4.8	4.6	14	29	64	207
11	15	9.3	2.2	4.4	6.1	12	4.3	3.5	25	23	55	147
12	12	8.8	2.1	4.1	5.6	11	18	3.1	14	28	47	100
13	11	7.8	2.0	3.9	4.7	10	27	3.3	13	24	67	74
14	10	6.9	4.0	3.8	3.6	11	15	3.0	15	19	246	62
15	9.7	6.2	4.5	4.0	19	15	9.2	2.6	14	16	279	53
16	8.5	5.6	28	4.0	19	33	7.1	2.5	12	14	219	46
17	8.4	5.1	85	3.7	15	44	6.6	3.1	8.9	14	236	40
18	7.5	4.8	54	5.6	13	23	7.1	3.4	6.4	14	140	35
19	7.0	4.8	49	10	16	17	9.9	2.5	4.9	73	94	30
20	6.2	5.5	44	8.2	17	15	8.6	2.1	3.9	177	75	25
21	5.7	5.1	37	6.4	15	18	6.6	2.0	3.0	211	64	24
22	5.4	4.6	29	5.8	13	18	7.3	1.9	2.5	154	64	26
23	5.5	4.2	23	5.6	12	16	8.6	2.0	2.1	92	88	23
24	6.1	3.9	20	5.5	10	16	6.0	1.8	1.8	62	74	20
25	5.1	3.9	17	5.4	80	12	6.6	1.7	1.6	48	66	18
26	5.4	3.9	14	5.5	101	9.2	8.6	1.6	5.5	52	59	117
27	5.4	3.7	12	7.1	82	9.7	6.6	1.4	80	46	52	243
28	4.5	3.5	11	7.9	67	12	6.5	1.3	59	63	48	194
29	23	3.2	9.4	6.7	52	8.6	5.2	1.2	43	100	44	117
30	15	3.0	8.6	6.2	---	6.6	9.9	1.2	55	75	39	71
31	8.4	---	8.0	6.8	---	6.0	---	1.2	---	64	62	---
TOTAL	564.8	178.7	567.9	179.7	642.3	527.1	254.4	157.4	473.3	1,796	2,942	3,455
MEAN	18.2	5.96	18.3	5.80	22.1	17.0	8.48	5.08	15.8	57.9	94.9	115
MAX	89	14	85	10	101	44	27	34	80	211	279	399
MIN	4.5	3.0	2.0	3.7	3.6	6.0	4.3	1.2	1.1	14	39	18
CFSM	2.76	0.90	2.78	0.88	3.36	2.58	1.29	0.77	2.39	8.79	14.4	17.5
IN.	3.19	1.01	3.21	1.01	3.63	2.98	1.44	0.89	2.67	10.14	16.61	19.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	11.8	4.49	12.4	9.04	12.0	14.3	8.14	5.40	40.5	44.8	54.2	50.5
MAX	18.2	9.84	34.3	25.9	22.1	17.0	18.3	13.2	146	70.9	94.9	115
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2004)	(2001)	(2003)	(2003)	(2001)	(2004)	(2004)
MIN	6.65	1.28	1.45	3.89	5.92	9.73	2.04	0.84	1.19	11.2	17.3	23.2
(WY)	(2001)	(2001)	(2002)	(2002)	(2000)	(2000)	(1999)	(2000)	(2000)	(2000)	(2000)	(1999)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1999 - 2004

ANNUAL TOTAL	13,363.2	11,738.6	
ANNUAL MEAN	36.6	32.1	23.4
HIGHEST ANNUAL MEAN			37.3
LOWEST ANNUAL MEAN			9.91
HIGHEST DAILY MEAN	1,380	399	1,380
LOWEST DAILY MEAN	2.0	1.1	0.34
ANNUAL SEVEN-DAY MINIMUM	2.6	1.1	0.37
MAXIMUM PEAK FLOW		429	1,900
MAXIMUM PEAK STAGE		56.57	58.48
ANNUAL RUNOFF (CFSM)	5.56	4.87	3.56
ANNUAL RUNOFF (INCHES)	75.43	66.26	48.35
10 PERCENT EXCEEDS	69	79	61
50 PERCENT EXCEEDS	13	11	8.3
90 PERCENT EXCEEDS	4.2	3.0	1.6

02298530 COKER CREEK NEAR MYAKKA CITY, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55.12	53.13	52.84	53.19	53.50	54.30	53.13	54.11	52.59	54.40	54.53	55.60
2	54.80	53.10	52.82	53.16	53.51	54.13	53.25	53.48	52.58	54.85	54.38	55.11
3	54.52	53.06	52.80	53.14	53.38	53.92	53.28	53.42	52.58	54.33	54.59	54.95
4	54.29	53.02	52.79	53.12	53.30	53.74	53.28	53.66	52.59	54.00	55.40	54.78
5	54.08	53.03	52.79	53.13	53.27	53.71	53.14	53.33	52.62	53.85	55.49	55.07
6	53.91	53.16	52.78	53.11	53.25	53.59	53.11	53.12	53.05	53.97	55.28	56.49
7	53.82	53.54	52.86	53.06	53.22	53.52	53.20	53.04	53.90	54.83	55.01	56.45
8	53.71	53.40	52.94	53.02	53.18	53.44	53.17	53.00	54.04	54.55	54.98	56.12
9	53.68	53.20	52.83	53.05	53.14	53.41	53.11	52.95	53.63	54.20	54.99	55.93
10	53.67	53.25	52.77	53.02	53.12	53.46	53.02	53.00	53.53	53.98	54.76	55.84
11	53.58	53.32	52.77	52.99	53.12	53.45	52.98	52.91	53.90	53.82	54.59	55.54
12	53.46	53.28	52.75	52.96	53.08	53.39	53.58	52.87	53.54	53.98	54.43	55.22
13	53.42	53.23	52.74	52.95	53.01	53.37	53.95	52.89	53.47	53.83	54.58	54.94
14	53.37	53.17	53.98	52.94	52.92	53.41	53.56	52.85	53.57	53.67	55.99	54.73
15	53.33	53.12	54.38	52.96	53.71	53.59	53.30	52.80	53.55	53.55	56.13	54.57
16	53.27	53.08	53.95	52.95	53.72	54.02	53.18	52.80	53.43	53.47	55.90	54.41
17	53.26	53.05	55.07	52.92	53.55	54.37	53.15	52.86	53.28	53.47	55.96	54.28
18	53.21	53.02	54.58	53.06	53.51	53.86	53.18	52.90	53.14	53.45	55.50	54.16
19	53.18	53.02	54.47	53.34	53.60	53.64	53.34	52.80	53.03	54.47	55.17	54.02
20	53.12	53.08	54.37	53.25	53.63	53.57	53.27	52.75	52.94	55.70	54.95	53.89
21	53.09	53.04	54.20	53.14	53.55	53.67	53.15	52.73	52.86	55.86	54.76	53.84
22	53.07	53.00	54.01	53.10	53.51	53.68	53.19	52.72	52.80	55.58	54.74	53.90
23	53.07	52.97	53.85	53.08	53.44	53.61	53.27	52.73	52.75	55.14	55.12	53.81
24	53.12	52.95	53.74	53.08	53.34	53.61	53.11	52.71	52.71	54.72	54.93	53.72
25	53.04	52.94	53.64	53.07	54.76	53.43	53.15	52.68	52.68	54.45	54.80	53.65
26	53.07	52.94	53.53	53.08	55.23	53.30	53.27	52.67	52.83	54.53	54.67	54.76
27	53.07	52.92	53.45	53.18	55.04	53.33	53.15	52.64	55.00	54.42	54.55	56.02
28	53.00	52.90	53.37	53.23	54.82	53.45	53.15	52.62	54.68	54.63	54.45	55.86
29	53.82	52.88	53.32	53.16	54.54	53.27	53.05	52.61	54.35	55.22	54.36	55.48
30	53.55	52.86	53.27	53.12	---	53.15	53.28	52.61	54.59	54.95	54.24	55.09
31	53.26	---	53.23	53.16	---	53.11	---	52.60	---	54.76	54.48	---
MEAN	53.55	53.09	53.45	53.09	53.62	53.60	53.23	52.93	53.34	54.41	54.96	54.94
MAX	55.12	53.54	55.07	53.34	55.23	54.37	53.95	54.11	55.00	55.86	56.13	56.49
MIN	53.00	52.86	52.74	52.92	52.92	53.11	52.98	52.60	52.58	53.45	54.24	53.65

02298554 MYAKKA RIVER NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 21'57", long 82° 08'58" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.7, T.36 S., R.22 E., Manatee County, Hydrologic Unit 03100102, on downstream side of bridge on Wauchula Road, and 1.4 mi northeast of Myakka City.

DRAINAGE AREA.-- Indeterminate.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	568	58	15	49	61	320	15	50	e1.7	e82	339	351
2	524	56	13	45	63	256	10	38	e1.6	e103	288	518
3	446	56	11	41	65	207	10	40	e1.5	e198	267	493
4	376	52	9.9	39	70	167	10	58	e2.0	e152	304	402
5	319	50	8.8	36	76	132	9.3	48	e3.6	e112	365	386
6	274	50	8.9	34	75	106	7.7	45	e4.3	e100	487	1,020
7	238	56	9.3	31	69	84	7.0	45	e5.5	e241	487	2,430
8	209	51	8.8	29	58	69	4.9	41	e6.2	e220	454	2,160
9	183	49	8.4	24	49	53	4.3	33	9.8	e180	450	1,630
10	157	47	8.2	26	44	48	4.7	27	20	e143	447	1,210
11	140	46	8.3	25	39	41	4.9	24	e30	e109	413	989
12	125	43	6.8	23	32	33	12	20	e29	e289	384	789
13	110	40	4.8	22	33	33	18	16	e32	e237	394	614
14	97	39	5.2	21	36	31	16	13	e44	147	827	479
15	88	35	8.9	16	97	25	20	11	e102	111	1,850	388
16	78	32	157	17	89	37	19	9.3	e91	89	1,900	327
17	70	31	336	17	90	57	15	9.0	73	89	1,720	278
18	61	29	422	28	100	75	12	12	52	84	1,440	238
19	55	29	415	35	107	85	8.4	10	36	106	1,100	204
20	49	32	350	34	101	80	5.8	8.1	24	305	880	176
21	43	29	289	35	90	71	6.6	e6.4	18	630	702	160
22	40	26	245	36	75	58	6.0	e6.0	14	772	549	152
23	38	25	206	36	68	48	5.5	e5.4	10	649	436	131
24	35	23	171	36	61	39	4.9	e5.8	7.6	487	386	115
25	32	22	142	34	155	31	4.4	e5.1	6.2	372	492	104
26	27	23	119	32	322	30	4.4	e4.7	5.5	331	652	198
27	27	21	101	33	519	27	4.8	e4.2	17	294	554	641
28	27	19	86	32	505	21	4.9	e3.5	18	264	434	1,190
29	62	17	73	30	406	20	4.0	e2.8	46	279	350	1,010
30	60	16	64	30	---	19	6.4	e2.3	e62	389	293	713
31	58	---	56	36	---	18	---	e1.9	---	406	259	---
MEAN	149	36.7	113	31.0	123	74.9	8.86	19.5	25.8	257	642	650
MAX	568	58	422	49	519	320	20	58	102	772	1,900	2,430
MIN	27	16	4.8	16	32	18	4.0	1.9	1.5	82	259	104

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	84.9	38.2	99.5	66.4	68.2	52.6	23.7	26.6	381	302	579	395
MAX	149	64.2	182	146	123	74.9	48.7	58.5	965	383	711	650
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2002)	(2003)	(2004)
MIN	39.6	13.8	4.02	21.8	27.9	34.2	8.86	1.82	25.8	257	383	211
(WY)	(2003)	(2002)	(2002)	(2002)	(2003)	(2002)	(2004)	(2002)	(2004)	(2004)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2002 - 2004

ANNUAL MEAN	242	178	177
HIGHEST ANNUAL MEAN			241
LOWEST ANNUAL MEAN			112
HIGHEST DAILY MEAN	7,480	2,430	7,480
LOWEST DAILY MEAN	3.4	1.5	0.24
ANNUAL SEVEN-DAY MINIMUM	4.0	2.0	0.39
MAXIMUM PEAK FLOW		2,540	9,270
MAXIMUM PEAK STAGE		14.04	17.37
10 PERCENT EXCEEDS	513	481	446
50 PERCENT EXCEEDS	71	50	46
90 PERCENT EXCEEDS	13	6.5	4.9

e Estimated

## 02298554 MYAKKA RIVER NEAR MYAKKA CITY, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.33	8.58	7.45	8.24	8.43	10.39	7.42	8.18	---	---	10.59	10.64
2	11.21	8.54	7.37	8.15	8.46	10.11	7.16	7.91	---	---	10.38	11.18
3	10.99	8.53	7.24	8.08	8.50	9.85	7.18	7.94	---	---	10.27	11.11
4	10.76	8.47	7.19	8.03	8.57	9.60	7.16	8.29	---	---	10.45	10.83
5	10.54	8.43	7.12	7.97	8.65	9.34	7.11	8.12	---	---	10.69	10.76
6	10.35	8.43	7.13	7.91	8.63	9.08	7.00	8.06	---	---	11.09	12.11
7	10.16	8.54	7.16	7.85	8.55	8.84	6.96	8.07	---	---	11.09	13.93
8	10.00	8.47	7.12	7.77	8.39	8.65	6.77	7.98	---	---	11.00	13.68
9	9.84	8.42	7.10	7.61	8.23	8.41	6.67	7.81	6.86	---	10.99	13.10
10	9.66	8.40	7.08	7.70	8.13	8.33	6.74	7.64	7.39	---	10.97	12.55
11	9.53	8.37	7.09	7.65	8.03	8.21	6.77	7.51	---	---	10.87	12.19
12	9.39	8.32	6.99	7.59	7.86	8.03	7.25	7.36	---	---	10.77	11.81
13	9.24	8.26	6.79	7.56	7.89	8.04	7.55	7.20	---	---	10.79	11.43
14	9.10	8.23	8.11	7.51	7.95	7.98	7.46	7.06	---	9.46	11.84	11.07
15	8.99	8.15	8.96	7.30	8.91	7.82	7.62	6.96	---	9.13	13.34	10.78
16	8.87	8.08	9.53	7.36	8.81	8.12	7.59	6.86	---	8.88	13.41	10.55
17	8.76	8.05	10.49	7.35	8.83	8.54	7.44	6.84	8.53	8.88	13.21	10.33
18	8.63	7.97	10.76	7.70	8.94	8.81	7.25	7.04	8.21	8.83	12.87	10.12
19	8.53	7.98	10.72	7.94	9.02	8.93	7.06	6.90	7.91	9.06	12.38	9.93
20	8.42	8.07	10.48	7.93	8.95	8.87	6.86	6.78	7.58	10.32	11.99	9.75
21	8.31	7.96	10.23	7.94	8.83	8.75	6.92	---	7.36	11.37	11.63	9.64
22	8.25	7.89	10.02	7.96	8.64	8.56	6.88	---	7.19	11.70	11.26	9.58
23	8.20	7.83	9.80	7.97	8.55	8.37	6.83	---	7.00	11.45	10.94	9.40
24	8.12	7.78	9.57	7.96	8.44	8.20	6.77	---	6.86	11.04	10.77	9.26
25	8.05	7.76	9.35	7.93	9.36	8.00	6.69	---	6.77	10.68	11.09	9.13
26	7.90	7.76	9.14	7.88	10.36	7.99	6.70	---	6.71	10.54	11.52	9.76
27	7.90	7.70	8.95	7.90	11.03	7.88	6.74	---	7.42	10.39	11.27	11.43
28	7.89	7.64	8.77	7.87	11.00	7.66	6.77	---	7.46	10.26	10.93	12.52
29	8.63	7.56	8.61	7.80	10.71	7.64	6.62	---	8.22	10.34	10.64	12.24
30	8.60	7.48	8.48	7.81	---	7.58	6.75	---	---	10.78	10.40	11.70
31	8.57	---	8.35	7.96	---	7.54	---	---	---	10.84	10.24	---
MEAN	9.18	8.12	8.49	7.81	8.85	8.52	7.02	---	---	---	11.28	11.08
MAX	11.33	8.58	10.76	8.24	11.03	10.39	7.62	---	---	---	13.41	13.93
MIN	7.89	7.48	6.79	7.30	7.86	7.54	6.62	---	---	---	10.24	9.13

02298608 MYAKKA RIVER AT MYAKKA CITY, FL.

LOCATION.--Lat 27° 20'36", long 82° 09'25" (1927 North American datum), in SE 1/4 sec.13, T.36 S., R.21 E., Manatee County, Hydrologic Unit 03100102, near left bank on downstream side of bridge on State Highway 70, 0.3 mi southeast of Myakka City, and 56 mi upstream from mouth.

DRAINAGE AREA.--125 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1963 to September 1966; October 1977 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 24.45 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to September 1966, at site 1,100 ft upstream at datum 0.64 ft lower.

REMARKS.--Records fair. WDR 1992 through WDR 2002 period of record gage height at present datum. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	883	41	17	54	74	457	18	40	3.0	94	607	539
2	774	40	16	51	81	348	15	36	2.5	124	545	725
3	634	40	14	49	77	266	14	32	1.9	218	631	778
4	519	38	13	47	77	202	14	44	2.4	172	883	649
5	420	36	13	46	79	154	14	38	5.2	124	837	623
6	337	37	12	44	77	117	12	34	6.0	113	1,140	2,160
7	272	40	12	43	70	88	11	33	7.8	303	1,040	3,930
8	222	38	12	42	61	71	9.4	31	8.3	290	896	3,350
9	185	36	11	38	53	56	7.9	28	12	244	849	2,760
10	154	35	11	39	48	50	8.3	25	22	190	814	1,950
11	132	34	11	38	45	45	8.8	23	34	153	754	1,520
12	114	33	10	37	41	40	15	21	34	357	725	1,210
13	97	31	8.5	36	41	38	24	18	36	315	770	934
14	83	30	43	35	42	37	21	16	58	218	2,300	730
15	73	29	102	32	142	33	22	14	112	148	3,460	586
16	65	27	153	32	150	39	22	13	95	109	3,030	501
17	58	27	486	32	118	62	20	12	60	106	2,630	426
18	52	25	603	42	112	71	17	15	40	103	2,260	358
19	48	25	579	61	115	79	14	13	31	156	1,890	303
20	44	28	490	54	106	71	11	11	25	423	1,630	257
21	41	26	390	50	92	61	11	8.8	21	1,020	1,330	229
22	39	24	317	48	77	49	10	6.7	17	1,300	1,050	221
23	37	23	258	47	68	41	9.8	6.4	14	1,140	846	194
24	35	22	205	47	62	36	8.9	6.9	12	896	759	167
25	33	21	167	45	235	31	8.0	6.4	11	684	813	145
26	30	21	134	43	597	30	8.0	5.8	9.8	619	1,030	397
27	29	20	108	43	750	27	8.3	5.4	21	561	939	1,850
28	28	19	89	43	728	23	9.4	4.8	23	489	766	1,960
29	42	18	76	41	582	22	6.9	4.1	37	490	615	1,620
30	45	17	67	41	---	21	7.4	3.7	70	620	510	1,120
31	42	---	60	44	---	20	---	3.4	---	730	447	---
TOTAL	5,567	881	4,487.5	1,344	4,800	2,685	386.1	559.4	831.9	12,509	36,796	32,192
MEAN	180	29.4	145	43.4	166	86.6	12.9	18.0	27.7	404	1,187	1,073
MAX	883	41	603	61	750	457	24	44	112	1,300	3,460	3,930
MIN	28	17	8.5	32	41	20	6.9	3.4	1.9	94	447	145
CFSM	1.44	0.23	1.16	0.35	1.32	0.69	0.10	0.14	0.22	3.23	9.50	8.58
IN.	1.66	0.26	1.34	0.40	1.43	0.80	0.11	0.17	0.25	3.72	10.95	9.58
*PREC	1.18	1.60	4.46	2.42	4.64	0.72	4.43	1.17	7.42	10.60	15.29	11.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	140	71.5	72.7	89.1	102	120	61.7	27.4	209	275	378	401
MAX	392	840	658	510	839	820	360	166	1,252	959	1,187	1,112
(WY)	(1983)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1991)	(2003)	(2001)	(2004)	(2001)
MIN	1.06	3.40	3.31	4.65	9.28	8.47	2.43	0.07	2.40	20.9	20.8	5.72
(WY)	(1985)	(1965)	(1986)	(1985)	(1985)	(1985)	(1965)	(1985)	(1998)	(1981)	(1980)	(1984)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1964 - 2004
ANNUAL TOTAL	115,829.1	103,038.9	
ANNUAL MEAN	317	282	163
HIGHEST ANNUAL MEAN			404
LOWEST ANNUAL MEAN			49.1
HIGHEST DAILY MEAN	8,560	3,930	9,250
LOWEST DAILY MEAN	5.0	1.9	0.00
ANNUAL SEVEN-DAY MINIMUM	7.5	3.0	0.00
MAXIMUM PEAK FLOW		4,050	12,800
MAXIMUM PEAK STAGE		14.09	17.39
ANNUAL RUNOFF (CFSM)	2.54	2.25	1.30
ANNUAL RUNOFF (INCHES)	34.47	30.66	17.67
10 PERCENT EXCEEDS	709	813	423
50 PERCENT EXCEEDS	80	47	43
90 PERCENT EXCEEDS	21	11	5.2

\* Precipitation, total, inches

02298760 HOWARD CREEK NEAR SARASOTA, FL.

LOCATION.--Lat 27° 17'17", long 82° 20'25" (1927 North American datum), in SE 1/4 sec.6, T.37 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, on right bank, 3.2 mi above mouth, 3.4 mi south of State Highway 780, and 12.2 mi east of Sarasota.

DRAINAGE AREA.--20.0 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1983 to September 1995; October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	2.2	0.87	4.5	6.3	21	0.84	0.48	0.01	1.2	122	12
2	53	2.0	0.85	4.3	9.2	13	0.80	0.54	0.00	1.1	224	10
3	34	1.8	0.80	4.0	8.3	9.0	0.80	0.71	0.00	5.1	381	8.5
4	24	1.8	0.76	3.9	6.3	7.2	0.80	0.57	0.03	9.0	469	6.8
5	18	1.8	0.74	3.7	5.1	5.8	0.80	0.35	0.49	3.7	451	12
6	14	1.7	0.74	3.5	4.1	4.9	0.79	0.26	0.19	2.8	391	342
7	12	1.6	0.74	3.4	3.6	4.2	0.74	0.51	0.14	8.9	382	626
8	9.7	1.6	0.72	3.2	3.3	3.6	0.74	0.31	0.12	16	293	582
9	7.7	1.5	0.70	3.0	2.8	3.2	0.72	0.31	2.0	5.7	292	444
10	6.1	1.4	0.68	2.9	2.5	2.9	0.66	0.41	2.7	3.2	370	356
11	5.2	1.3	0.68	2.9	2.3	2.6	0.60	0.15	1.1	3.2	290	277
12	4.5	1.3	0.68	2.8	2.2	2.4	1.8	0.10	0.88	8.1	137	153
13	3.9	1.2	0.68	2.7	2.1	2.2	3.1	0.08	0.82	4.5	117	76
14	3.4	1.2	13	2.5	2.4	2.1	3.0	0.06	0.99	2.9	456	49
15	3.1	1.1	19	2.5	22	1.9	2.3	0.05	1.3	2.2	708	35
16	2.7	1.1	26	2.4	30	2.9	1.7	0.04	1.0	1.8	605	25
17	2.3	1.1	108	2.4	18	3.9	1.4	0.02	1.1	1.5	362	20
18	2.0	1.0	98	5.3	11	3.4	1.2	0.01	0.94	1.3	137	17
19	1.8	1.2	60	8.7	7.8	3.1	0.99	0.10	0.77	1.9	66	13
20	1.5	1.2	32	8.0	5.6	2.7	0.85	0.29	0.69	52	45	11
21	1.3	1.1	20	6.2	4.6	2.4	0.79	0.08	0.62	125	33	9.6
22	1.2	1.1	15	5.1	3.9	2.0	0.72	0.04	0.55	64	26	12
23	1.2	1.0	12	4.4	3.3	1.8	0.68	0.07	0.51	34	34	12
24	1.1	0.97	11	3.9	3.0	1.7	0.65	0.10	0.50	16	36	9.4
25	1.0	0.93	9.0	3.5	50	1.5	0.62	0.09	0.51	7.5	30	7.9
26	1.00	0.93	7.7	3.3	164	1.4	0.60	0.08	0.50	8.5	23	160
27	0.97	0.93	6.7	3.1	151	1.4	0.60	0.08	0.72	18	19	622
28	1.1	0.90	5.9	3.0	85	1.2	0.62	0.07	0.91	112	30	602
29	3.2	0.87	5.3	2.9	38	1.1	0.62	0.06	0.98	434	30	369
30	2.7	0.87	5.1	2.8	---	1.0	0.60	0.04	1.5	356	20	130
31	2.4	---	4.8	2.9	---	0.96	---	0.03	---	239	15	---
TOTAL	303.07	38.70	468.14	117.7	657.7	118.46	31.13	6.09	22.57	1,550.1	6,594	5,009.2
MEAN	9.78	1.29	15.1	3.80	22.7	3.82	1.04	0.20	0.75	50.0	213	167
MAX	77	2.2	108	8.7	164	21	3.1	0.71	2.7	434	708	626
MIN	0.97	0.87	0.68	2.4	2.1	0.96	0.60	0.01	0.00	1.1	15	6.8
AC-FT	601	77	929	233	1,300	235	62	12	45	3,070	13,080	9,940

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

MEAN	9.77	3.54	9.51	7.22	5.13	12.0	9.23	6.74	33.2	38.4	68.0	73.5
MAX	41.8	13.2	54.9	30.7	22.7	68.2	53.2	60.4	219	167	213	202
(WY)	(1995)	(1984)	(2003)	(2003)	(2004)	(1987)	(1993)	(1991)	(2003)	(2001)	(2004)	(1988)
MIN	0.66	0.16	0.28	0.40	0.10	1.15	0.00	0.00	0.00	0.24	8.59	6.10
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(1989)	(1989)	(1989)	(1990)	(1990)	(1989)	(1990)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1984 - 2004

ANNUAL TOTAL	19,533.51	14,916.86	
ANNUAL MEAN	53.5	40.8	
HIGHEST ANNUAL MEAN			23.6
LOWEST ANNUAL MEAN			57.1
HIGHEST DAILY MEAN	2,000	Jun 23	2003
LOWEST DAILY MEAN	0.68	Dec 10	1990
ANNUAL SEVEN-DAY MINIMUM	0.70	Dec 7	2.65
MAXIMUM PEAK FLOW		708	2,600
MAXIMUM PEAK STAGE		Aug 15	Aug 15
ANNUAL RUNOFF (AC-FT)	38,740	29,590	3,000
10 PERCENT EXCEEDS	133	114	50
50 PERCENT EXCEEDS	5.7	2.8	2.9
90 PERCENT EXCEEDS	1.2	0.50	0.21

\* From high water mark

02298830 MYAKKA RIVER NEAR SARASOTA, FL.

LOCATION.--Lat 27° 14'25", long 82° 18'50" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.21, T.37 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, on right bank, 0.5 mi upstream from bridge on State Highway 72, 1.9 mi upstream from Lower Myakka Lake, 14 mi southeast of Sarasota, and 36 mi upstream from mouth.

DRAINAGE AREA.--229 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1936 to current year.

REVISED RECORDS.--WSP 1234: Drainage area. WDR FL-73-3: Drainage area. WRD FL-90-3A: 1989.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 7.92 ft above National Geodetic Vertical Datum of 1929 (National Park Service bench mark). Prior to Apr. 10, 1941, nonrecording gage at site 0.5 mi downstream at same datum; Apr. 10, 1941, to June 28, 1961, nonrecording gage at present site at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Records include flow from Vanderipe Slough at extreme high stages. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

REVISIONS.--The instantaneous peak gage height and date for the period of record reported for water years 1994-1998 are in error. The correct gage height is 11.73 ft and the correct date is June 29, 1992.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	612	65	27	291	75	507	64	2.8	3.6	36	652	680
2	649	61	26	273	e118	517	56	2.4	3.1	41	653	644
3	668	58	24	257	e120	508	49	2.8	2.5	45	786	621
4	653	56	23	242	e115	485	42	5.8	2.1	58	999	609
5	628	54	22	226	95	459	36	9.2	2.4	69	1,220	608
6	595	54	22	212	97	430	31	13	2.9	81	1,380	648
7	557	52	20	199	101	401	27	17	2.7	93	1,430	841
8	519	52	19	180	104	375	24	21	2.6	113	1,440	1,380
9	481	52	18	164	104	348	20	24	2.8	130	1,410	2,530
10	444	51	18	153	103	322	18	27	6.1	145	1,320	3,420
11	409	48	18	140	101	297	15	30	6.3	158	1,220	3,560
12	377	46	17	126	99	275	16	30	6.3	180	1,110	3,160
13	350	45	16	116	96	255	19	29	9.0	197	1,030	2,620
14	323	43	25	106	92	236	18	27	15	214	1,240	2,120
15	299	41	39	97	107	219	18	24	30	231	1,540	1,720
16	274	40	59	91	119	207	18	22	44	241	2,060	1,420
17	248	39	143	e92	139	199	17	20	63	242	2,610	1,210
18	226	38	217	e96	156	186	17	18	74	242	2,870	1,030
19	204	38	307	e108	165	176	15	16	81	248	2,860	868
20	185	40	379	e104	171	169	14	14	82	276	2,730	734
21	166	39	426	e96	176	161	12	13	76	356	2,420	648
22	147	38	443	e90	179	154	11	12	67	457	2,090	607
23	129	37	445	86	178	148	9.4	10	58	532	1,820	569
24	113	36	438	84	174	138	8.2	9.3	50	586	1,540	537
25	102	35	426	83	197	129	6.9	8.3	48	620	1,320	507
26	93	34	410	80	251	120	5.7	7.4	44	629	1,130	497
27	83	33	390	79	340	110	4.7	6.6	40	637	993	594
28	75	32	370	78	425	99	4.4	5.8	36	643	926	861
29	77	30	349	75	479	91	3.8	5.2	34	647	858	1,230
30	73	28	328	72	---	82	3.4	4.6	37	663	791	1,500
31	68	---	309	71	---	73	---	4.1	---	666	721	---
TOTAL	9,827	1,315	5,773	4,167	4,676	7,876	603.5	441.3	931.4	9,476	45,169	37,973
MEAN	317	43.8	186	134	161	254	20.1	14.2	31.0	306	1,457	1,266
MAX	668	65	445	291	479	517	64	30	82	666	2,870	3,560
MIN	68	28	16	71	75	73	3.4	2.4	2.1	36	652	497
CFSM	1.38	0.19	0.81	0.59	0.70	1.11	0.09	0.06	0.14	1.33	6.36	5.53
IN.	1.60	0.21	0.94	0.68	0.76	1.28	0.10	0.07	0.15	1.54	7.34	6.17
*PREC	0.91	0.70	5.04	0.72	4.46	0.76	1.84	0.65	6.99	10.78	9.64	6.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 2004, BY WATER YEAR (WY)

MEAN	381	108	86.5	120	128	163	94.3	40.5	197	437	643	703
MAX	1,325	1,080	1,074	811	1,386	1,351	601	258	2,057	1,625	2,032	2,467
(WY)	(1949)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1991)	(2003)	(1947)	(1949)	(1947)
MIN	7.09	0.66	0.10	0.15	0.00	0.00	0.00	0.00	0.00	5.21	45.8	15.7
(WY)	(1975)	(1975)	(1943)	(1943)	(1943)	(1939)	(1938)	(1938)	(1944)	(1955)	(1942)	(1938)



## 02298830 MYAKKA RIVER NEAR SARASOTA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1937 - 2004	
ANNUAL TOTAL	213,946		128,228.2			
ANNUAL MEAN	586		350		259	
HIGHEST ANNUAL MEAN					616 2003	
LOWEST ANNUAL MEAN					73.1 1956	
HIGHEST DAILY MEAN	10,800	Jun 24	3,560	Sep 11	10,800	Jun 24, 2003
LOWEST DAILY MEAN	16	Dec 13	2.1	Jun 4	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	18	Dec 7	2.6	Jun 3	0.00	Mar 28, 1938
MAXIMUM PEAK FLOW			3,620	Sep 11	11,100	Jun 24, 2003
MAXIMUM PEAK STAGE			9.95	Sep 11	12.46	Jun 24, 2003
ANNUAL RUNOFF (CFSM)	2.56		1.53		1.13	
ANNUAL RUNOFF (INCHES)	34.75		20.83		15.38	
10 PERCENT EXCEEDS	1,210		995		688	
50 PERCENT EXCEEDS	233		106		80	
90 PERCENT EXCEEDS	39		12		1.0	

e Estimated

\* Precipitation, total, inches

## 02299360 SNOVER WATERWAY CANAL NEAR MURDOCK, FL.

LOCATION.--Lat 27° 04'34", long 82° 09'20" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.24, T.39 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, on left bank, on Toledo Bridge Road, 1.5 mi south of interstate I-75, and 4.6 mi north of Murdock.

DRAINAGE AREA.--24 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--July 1998 to current year (gage heights only). Prior to Oct. 1, 2000, published under latitude/longitude 270434082092000.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.73 ft, Sept. 14, 2001; minimum, unknown.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.26 ft, Aug. 14; minimum, 16.16 ft, Nov. 28-30, Dec. 2, 6-13.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.60	16.32	16.17	16.24	16.45	17.46	17.06	16.69	16.32	16.96	17.90	17.80
2	18.46	16.30	16.17	16.23	16.45	17.41	17.04	16.64	16.31	16.93	17.91	17.72
3	18.33	16.31	16.17	16.23	16.44	17.37	17.03	16.64	16.30	16.91	17.96	17.62
4	18.20	16.31	16.17	16.22	16.44	17.33	17.02	16.65	16.30	16.89	18.07	17.52
5	18.01	16.31	16.17	16.22	16.44	17.29	17.01	16.60	16.32	16.87	18.19	17.53
6	17.77	16.33	16.17	16.21	16.44	17.25	16.99	16.56	16.36	16.85	18.28	18.14
7	17.55	16.31	16.16	16.20	16.44	17.23	16.99	16.52	16.38	16.88	18.34	18.25
8	17.36	16.29	16.16	16.19	16.43	17.21	16.98	16.50	16.38	16.97	18.31	18.24
9	17.20	16.28	16.16	16.17	16.44	17.19	16.98	16.49	16.40	16.96	18.29	18.28
10	17.07	16.26	16.17	16.18	16.44	17.17	16.98	16.48	16.43	16.94	18.29	18.32
11	16.97	16.25	16.17	16.18	16.44	17.16	16.97	16.48	16.45	16.94	18.19	18.27
12	16.89	16.24	16.16	16.18	16.44	17.15	17.06	16.47	16.45	16.98	17.28	18.22
13	16.82	16.23	16.17	16.19	16.45	17.14	17.14	16.46	16.46	16.97	16.98	18.20
14	16.75	16.22	16.29	16.20	16.48	17.13	17.13	16.45	16.51	16.96	18.97	18.14
15	16.70	16.21	16.31	16.20	16.64	17.12	17.12	16.44	16.63	16.95	18.95	18.10
16	16.65	16.21	16.33	16.21	16.64	17.16	17.10	16.44	16.62	16.95	18.68	18.04
17	16.61	16.21	16.65	16.22	16.63	17.19	17.08	16.44	16.62	16.94	18.64	17.95
18	16.58	16.21	16.48	16.38	16.61	17.18	17.06	16.43	16.60	16.95	18.59	17.82
19	16.55	16.21	16.38	16.43	16.60	17.17	17.04	16.42	16.57	17.03	18.79	17.67
20	16.52	16.21	16.33	16.34	16.59	17.16	17.02	16.41	16.54	17.16	18.43	17.54
21	16.49	16.20	16.30	16.29	16.59	17.15	17.01	16.40	16.52	17.33	18.28	17.47
22	16.46	16.19	16.28	16.27	16.59	17.14	16.99	16.40	16.50	17.52	18.22	17.46
23	16.44	16.19	16.27	16.26	16.58	17.12	16.94	16.39	16.48	17.54	18.17	17.39
24	16.42	16.19	16.26	16.30	16.59	17.11	16.75	16.38	16.49	17.53	18.12	17.30
25	16.41	16.18	16.25	16.34	16.99	17.10	16.63	16.37	16.54	17.50	18.13	17.24
26	16.40	16.17	16.25	16.37	17.43	17.10	16.57	16.37	16.58	17.50	18.15	17.36
27	16.38	16.17	16.24	16.39	17.52	17.10	16.54	16.36	16.72	17.58	18.13	17.81
28	16.36	16.17	16.25	16.37	17.52	17.09	16.51	16.35	16.69	17.74	18.09	17.90
29	16.36	16.16	16.25	16.37	17.50	17.09	16.53	16.34	16.72	17.97	18.02	17.86
30	16.34	16.16	16.25	16.38	---	17.08	16.65	16.33	16.97	17.92	17.91	17.76
31	16.33	---	16.24	16.41	---	17.07	---	16.32	---	17.89	17.83	---
MEAN	16.97	16.23	16.25	16.27	16.66	17.18	16.93	16.46	16.51	17.19	18.20	17.83
MAX	18.60	16.33	16.65	16.43	17.52	17.46	17.14	16.69	16.97	17.97	18.97	18.32
MIN	16.33	16.16	16.16	16.17	16.43	17.07	16.51	16.32	16.30	16.85	16.98	17.24

02299410 BIG SLOUGH CANAL NEAR MYAKKA CITY, FL.

LOCATION.--Lat 27° 11'35", long 82° 08'40" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.6, T.38 S., R.22 E., Sarasota County, Hydrologic Unit 03100102, near center of span on upstream side of bridge on State Highway 72, 0.6 mi upstream from Mud Lake Slough, and 11 mi south of Myakka City.

DRAINAGE AREA.--36.5 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1962 to September 1966 (annual maximum); October 1980 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 2.28 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to September 1966, nonrecording gage at same site at datum 24.34 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to September 1966, flow included from Mud Lake Slough. WDR 1992 through WDR 2002 period of record gage height at present datum. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	2.4	1.2	3.7	14	57	0.41	1.0	0.39	25	141	115
2	152	2.3	1.2	4.0	23	44	0.38	14	0.40	e120	126	102
3	123	2.2	1.0	3.7	20	36	0.37	5.3	0.43	e70	133	85
4	92	2.2	1.0	3.1	13	30	0.36	3.5	0.44	e40	137	69
5	67	2.3	1.0	3.0	8.5	25	0.36	3.0	0.47	e35	214	70
6	48	2.1	1.0	3.0	7.9	22	0.36	0.99	0.47	e30	270	234
7	36	2.5	0.99	2.5	5.6	18	0.35	0.32	0.50	e40	316	309
8	28	2.2	0.98	2.2	4.1	13	0.35	0.20	0.52	e30	330	379
9	22	2.1	0.96	2.1	4.4	9.1	0.35	0.19	0.54	e19	331	424
10	18	2.0	0.97	2.2	4.8	6.4	0.34	0.19	0.58	11	302	448
11	16	2.0	1.0	2.7	4.5	5.3	0.34	0.18	0.59	5.1	252	414
12	14	1.9	1.0	2.7	4.0	4.6	0.34	0.17	0.63	23	237	368
13	12	1.8	0.98	2.0	3.6	3.6	0.32	0.17	4.3	38	388	320
14	11	1.8	5.2	1.8	4.2	2.7	0.32	0.18	20	36	839	259
15	9.5	1.7	21	2.1	32	2.1	0.41	0.18	35	25	1,750	199
16	8.3	1.6	25	2.1	54	2.7	0.35	0.20	54	18	1,780	e170
17	7.3	1.6	56	2.0	40	5.3	0.33	0.20	57	22	1,440	e100
18	6.3	1.6	81	8.7	27	5.9	0.32	0.22	39	38	1,310	e80
19	5.4	1.5	65	27	22	3.4	0.31	0.23	26	63	1,070	e60
20	4.7	1.5	37	26	18	2.2	0.31	0.23	16	176	e990	46
21	4.4	1.5	27	17	15	1.5	0.30	0.25	8.4	278	e870	45
22	4.0	1.4	24	9.7	11	1.1	0.30	0.25	4.6	308	e550	47
23	3.3	1.4	21	6.7	12	0.88	0.30	0.27	3.2	275	409	42
24	3.0	1.4	17	5.8	17	0.78	0.30	0.28	3.7	200	364	35
25	2.9	1.4	13	6.0	54	0.71	0.29	0.30	5.7	128	336	30
26	2.8	1.3	10	5.4	130	0.66	0.29	0.30	13	88	299	104
27	2.6	1.3	8.4	4.6	151	0.61	0.29	0.32	12	121	266	214
28	2.6	1.3	7.4	3.9	119	0.56	0.30	0.33	11	151	229	276
29	2.7	1.3	6.2	3.0	80	0.54	0.29	0.35	11	106	193	313
30	2.5	1.2	5.3	3.6	---	0.48	0.73	0.36	27	97	161	300
31	2.4	---	4.3	5.1	---	0.44	---	0.37	---	106	128	---
TOTAL	878.7	52.8	447.08	177.4	903.6	306.56	10.37	34.03	356.86	2,722.1	16,161	5,657
MEAN	28.3	1.76	14.4	5.72	31.2	9.89	0.35	1.10	11.9	87.8	521	189
MAX	165	2.5	81	27	151	57	0.73	14	57	308	1,780	448
MIN	2.4	1.2	0.96	1.8	3.6	0.44	0.29	0.17	0.39	5.1	126	30
AC-FT	1,740	105	887	352	1,790	608	21	67	708	5,400	32,060	11,220
*PREC	0.41	1.64	---	---	---	0.68	3.89	0.64	9.96	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004, BY WATER YEAR (WY)

MEAN	33.8	15.3	18.0	16.1	19.3	31.8	13.3	5.34	82.0	62.8	102	97.1
MAX	204	119	195	125	143	236	90.4	27.3	668	240	521	260
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1991)	(2003)	(2001)	(2004)	(2001)
MIN	0.80	0.35	0.22	0.03	0.37	0.49	0.26	0.01	0.05	0.85	6.24	2.23
(WY)	(1985)	(1981)	(1992)	(1981)	(2001)	(1981)	(1981)	(2000)	(1998)	(1993)	(1993)	(1996)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1981 - 2004
ANNUAL TOTAL	36,466.68	27,707.50	
ANNUAL MEAN	99.9	75.7	41.4
HIGHEST ANNUAL MEAN			108
LOWEST ANNUAL MEAN			5.26
HIGHEST DAILY MEAN	6,000	Jun 22	7,300
LOWEST DAILY MEAN	0.96	Dec 9	0.00
ANNUAL SEVEN-DAY MINIMUM	0.98	Dec 7	0.00
MAXIMUM PEAK FLOW		1,990	8,600
MAXIMUM PEAK STAGE		31.63	**33.73
ANNUAL RUNOFF (AC-FT)	72,330	54,960	30,010
10 PERCENT EXCEEDS	145	235	102
50 PERCENT EXCEEDS	13	5.3	6.8
90 PERCENT EXCEEDS	2.1	0.33	0.39

e Estimated

\* Precipitation, total, inches

\*\*Present Datum

02299450 BIG SLOUGH AT TROPICAIRE BOULEVARD NEAR PORT CHARLOTTE, FL.

LOCATION.--Lat 27° 07'15", long 82° 11'37" (1927 North American datum), in SE 1/4 sec.34, T.38 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, on upstream side of bridge on Tropicaire Boulevard, 4.0 mi north of North Port Charlotte, and 6.0 mi upstream from mouth.

DRAINAGE AREA.--81 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2001 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

REMARKS.--Records good. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	2.3	2.1	13	18	111	2.4	6.7	0.05	50	230	236
2	187	1.9	2.3	12	28	88	2.2	9.8	0.02	122	243	205
3	165	1.7	2.2	12	32	69	2.1	13	0.00	148	284	178
4	132	2.6	2.2	11	28	56	1.9	9.7	0.00	102	318	155
5	108	5.5	2.4	10	21	45	1.8	9.0	0.00	83	349	155
6	89	11	2.4	10	18	38	1.7	7.2	0.00	80	402	327
7	74	8.5	2.4	9.3	16	31	1.6	5.0	1.6	66	433	413
8	60	8.0	2.3	8.5	14	26	1.6	3.7	0.80	78	452	514
9	49	6.9	2.4	8.3	13	21	1.6	2.8	0.58	59	465	949
10	41	6.0	3.1	8.2	13	18	1.5	2.3	0.52	44	472	1,170
11	34	5.4	3.4	8.2	12	16	1.5	2.1	1.5	33	461	981
12	28	4.9	3.2	8.6	11	14	3.0	1.8	2.0	33	424	748
13	24	4.4	3.1	8.0	10	13	3.7	1.5	11	44	402	552
14	20	3.9	8.2	7.3	10	11	2.9	1.2	41	56	479	438
15	18	3.5	19	7.3	41	9.8	3.1	1.0	62	48	1,340	370
16	15	3.2	39	7.4	81	11	4.2	0.81	84	32	1,970	305
17	12	3.0	96	7.1	88	14	4.0	0.67	93	30	1,950	228
18	11	2.7	120	14	60	15	3.4	0.58	73	42	1,780	162
19	9.1	2.9	134	28	41	13	2.7	0.53	43	79	1,650	126
20	7.7	3.6	101	40	31	11	2.3	0.52	24	163	1,480	106
21	6.5	3.4	64	34	26	9.5	1.9	0.49	15	278	1,320	99
22	5.7	3.3	49	25	22	8.0	1.6	0.46	9.9	360	1,250	100
23	4.8	3.3	40	19	19	6.5	1.4	0.43	7.1	417	1,070	88
24	4.0	2.9	33	16	23	5.5	1.3	0.39	6.9	458	792	77
25	3.2	2.8	27	15	73	4.8	1.1	0.31	10	433	607	67
26	3.0	2.7	24	14	181	4.3	0.95	0.27	27	335	486	98
27	2.6	2.5	20	13	212	3.9	0.85	0.23	39	270	416	196
28	2.4	2.4	18	12	203	3.5	0.74	0.18	52	286	368	226
29	3.2	2.3	17	10	151	3.2	0.73	0.13	55	282	322	251
30	3.0	2.1	15	10	---	2.9	1.5	0.10	59	232	273	281
31	2.7	---	14	12	---	2.7	---	0.08	---	197	232	---
TOTAL	1,312.9	119.6	871.7	418.2	1,496	685.6	61.27	82.98	718.97	4,940	22,720	9,801
MEAN	42.4	3.99	28.1	13.5	51.6	22.1	2.04	2.68	24.0	159	733	327
MAX	188	11	134	40	212	111	4.2	13	93	458	1,970	1,170
MIN	2.4	1.7	2.1	7.1	10	2.7	0.73	0.08	0.00	30	230	67
MED	15	3.3	15	11	26	13	1.7	0.81	10	83	461	227
CFSM	0.52	0.05	0.35	0.17	0.64	0.27	0.03	0.03	0.30	1.97	9.05	4.03
IN.	0.60	0.05	0.40	0.19	0.69	0.31	0.03	0.04	0.33	2.27	10.43	4.50
*PREC	0.54	0.84	3.30	2.10	3.74	0.68	2.22	0.77	7.38	7.25	15.09	7.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	36.5	22.9	38.4	16.9	28.9	15.7	5.85	13.3	245	226	416	262
MAX	42.4	60.0	85.2	32.4	51.6	22.1	13.9	36.4	662	354	733	330
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2001)	(2004)	(2001)
MIN	32.6	3.99	1.97	4.89	11.7	9.76	1.62	0.73	24.0	159	192	177
(WY)	(2003)	(2004)	(2002)	(2002)	(2003)	(2002)	(2002)	(2002)	(2004)	(2004)	(2001)	(2003)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	48,894.12		43,228.22			
ANNUAL MEAN	134		118		112	
HIGHEST ANNUAL MEAN					143	
LOWEST ANNUAL MEAN					74.9	
HIGHEST DAILY MEAN	4,480	Jun 23	1,970	Aug 16	4,480	Jun 23, 2003
LOWEST DAILY MEAN	0.07	Apr 25	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.43	Apr 19	0.02	May 31	0.02	May 31, 2004
MAXIMUM PEAK FLOW			2,030	Aug 16	4,950	Jun 23, 2003
MAXIMUM PEAK STAGE			25.53	Aug 16	27.05	Jun 23, 2003
ANNUAL RUNOFF (CFSM)	1.65		1.46		1.38	
ANNUAL RUNOFF (INCHES)	22.46		19.85		18.76	
10 PERCENT EXCEEDS	251		352		280	
50 PERCENT EXCEEDS	20		14		17	
90 PERCENT EXCEEDS	2.8		1.5		1.6	

\*Precipitation, total, inches

## 02299484 BIG SLOUGH AT WCS-101 AT NORTH PORT, FL.

LOCATION.--Lat 27° 02'48", long 82° 14'17" (1927 North American datum), in NE $\frac{1}{4}$  sec.31, T.39 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, on left bank, 200 ft upstream from control structure 101 in North Port, 800 ft upstream from mouth of Cocoplum Waterway, 0.2 mi north of U. S. Highway 41, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--90 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--June 1993 to current year (gage heights only), incomplete.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 15.60 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 22.77 ft, June 23, 2003; minimum, 18.34 ft, Apr. 17, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 21.60 ft, Aug. 17; minimum, 19.46 ft, Sept. 4.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.99	19.80	19.76	19.90	19.97	20.28	19.73	19.82	19.59	20.22	19.78	19.96
2	19.97	19.78	19.71	19.88	20.04	20.23	19.72	19.80	19.59	20.30	19.86	19.80
3	19.87	19.78	19.70	19.88	20.08	20.17	19.71	19.93	19.64	20.38	19.97	19.66
4	20.06	19.80	19.70	19.86	20.07	20.14	19.68	19.89	19.65	20.28	20.20	19.51
5	20.37	19.82	19.68	19.85	20.03	20.10	19.68	19.83	19.63	20.22	20.32	19.63
6	20.32	19.94	19.71	19.84	19.99	20.08	19.67	19.82	19.62	20.23	20.38	20.37
7	20.27	19.88	19.71	19.83	19.97	20.06	19.67	19.77	19.66	20.24	20.41	20.42
8	20.23	19.86	19.70	19.83	19.93	20.02	19.67	19.74	19.78	20.21	20.39	20.46
9	20.20	19.83	19.73	19.84	19.91	19.99	19.69	19.74	19.84	20.18	20.43	20.84
10	20.17	19.80	19.69	19.84	19.90	19.96	19.70	19.72	19.78	20.13	20.36	21.05
11	20.15	19.79	19.75	19.84	19.89	19.93	19.68	19.71	19.78	20.11	20.48	20.95
12	20.13	19.77	19.77	19.84	19.89	19.91	19.76	19.72	19.81	20.12	20.44	20.80
13	20.12	19.76	19.74	19.83	19.88	19.89	19.78	19.67	19.87	20.13	20.43	20.65
14	20.10	19.77	19.91	19.82	19.88	19.88	19.72	19.64	20.09	20.15	20.71	20.55
15	20.08	19.76	19.98	19.81	20.11	19.84	19.71	19.61	20.14	20.14	20.95	20.48
16	20.05	19.75	20.09	19.81	20.18	19.88	19.73	19.59	20.25	20.08	21.35	20.39
17	20.04	19.73	20.31	19.81	20.24	19.94	19.75	19.59	20.27	20.06	21.57	20.13
18	20.02	19.75	20.29	19.97	20.17	19.96	19.75	19.61	20.25	20.09	21.55	19.91
19	19.99	19.76	20.33	20.05	20.12	19.94	19.77	19.69	20.15	20.21	21.37	20.29
20	19.97	19.79	20.27	20.09	20.08	19.91	19.76	19.74	20.04	20.25	21.23	20.38
21	19.95	19.79	20.17	20.09	20.05	19.89	19.74	19.66	19.96	20.17	21.11	20.34
22	19.94	19.76	20.13	20.05	20.03	19.86	19.73	19.67	19.87	20.13	21.16	20.34
23	19.95	19.77	20.10	20.00	20.00	19.83	19.73	19.65	19.82	20.18	21.01	20.32
24	19.94	19.75	20.07	19.96	20.02	19.81	19.71	19.61	19.79	20.23	20.80	20.30
25	19.88	19.78	20.05	19.94	20.24	19.78	19.69	19.61	19.87	20.22	20.65	20.29
26	19.86	19.83	20.03	19.93	20.40	19.78	19.69	19.61	19.97	20.11	20.54	20.36
27	19.84	19.84	20.01	19.92	20.44	19.78	19.69	19.61	20.11	19.95	20.47	20.41
28	19.83	19.82	19.98	19.90	20.44	19.77	19.69	19.61	20.23	20.01	20.41	20.16
29	19.86	19.82	19.96	19.88	20.37	19.75	19.70	19.60	20.25	20.04	20.21	20.07
30	19.85	19.81	19.94	19.87	---	19.75	19.78	19.60	20.28	19.86	20.02	20.13
31	19.83	---	19.93	19.90	---	19.74	---	19.60	---	19.74	19.90	---
MEAN	20.03	19.80	19.93	19.90	20.08	19.93	19.72	19.69	19.92	20.14	20.60	20.30
MAX	20.37	19.94	20.33	20.09	20.44	20.28	19.78	19.93	20.28	20.38	21.57	21.05
MIN	19.83	19.73	19.68	19.81	19.88	19.74	19.67	19.59	19.59	19.74	19.78	19.51
*PREC	0.24	0.74	2.78	1.76	3.64	0.58	1.80	1.63	10.22	9.46	8.48	4.47

\* Precipitation, total, inches

## 02299692 BLACKBURN CANAL NEAR VENICE, FL.

LOCATION.--Lat 27°06'41", long 82°21'37" (1927 North American datum), in SE $\frac{1}{4}$  sec.1, T.39 S., R.19 E., Sarasota County, Hydrologic Unit 03100201, on left bank, on upstream side of bridge, on bridge pier over Blackburn Canal, 1.3 mi north of intersection Jackson and Venice Farm Roads, 0.3 mi north of I-75 (exit 34), 5.0 mi northeast of Venice, 5.0 mi northwest of North Port Charlotte, and 20.0 mi upstream from mouth of Myakka River.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--October 2003 to February 2004 (gage heights only); March to September 2004.

GAGE.--Water-stage and velocity recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Residual discharge records are considered poor. Discharge is computed from stage and velocity record. Discharge is affected by tide and or variations of stage from the Myakka River. Instantaneous discharge computed from index-velocity gage height multiple linear regression relation and gage height-to-area quadratic equation relation. A ninth-order Butterworth low-pass filter is used to yield the residual discharge for the Blackburn Canal station. The residual discharges are not total "freshwater" flow, but are a combination of freshwater flow and water storage caused by higher or lower Gulf of Mexico and Myakka River mean water levels. The residual discharge is used to estimate mean daily discharge values.

EXTREMES FOR CURRENT PERIOD.--Maximum residual discharge, 507 ft<sup>3</sup>/s, September 12; maximum gage height, 7.68 ft, Sept. 12; minimum residual discharge -2.2 ft<sup>3</sup>/s, May 5; minimum gage height, undetermined.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD MACH TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	2.9	2.7	2.2	7.2	101	117
2	---	---	---	---	---	---	-0.20	6.5	3.8	8.3	95	101
3	---	---	---	---	---	---	1.1	3.7	2.5	13	118	78
4	---	---	---	---	---	---	-0.44	-1.5	5.4	15	151	61
5	---	---	---	---	---	---	1.7	-2.2	4.9	20	213	59
6	---	---	---	---	---	39	2.4	0.20	6.2	15	252	162
7	---	---	---	---	---	24	5.2	2.9	6.1	10	261	147
8	---	---	---	---	---	18	7.6	4.4	5.6	9.6	256	145
9	---	---	---	---	---	11	8.2	6.3	2.3	9.7	245	204
10	---	---	---	---	---	11	5.9	4.1	5.1	8.6	232	346
11	---	---	---	---	---	9.4	12	4.8	5.3	11	216	468
12	---	---	---	---	---	13	7.6	5.4	4.5	9.8	198	507
13	---	---	---	---	---	15	8.6	8.0	4.5	11	175	500
14	---	---	---	---	---	15	-2.0	3.6	5.5	9.5	186	449
15	---	---	---	---	---	17	0.17	2.6	7.3	8.0	214	384
16	---	---	---	---	---	16	1.4	3.5	10	9.3	249	311
17	---	---	---	---	---	10	1.1	2.4	6.9	11	314	238
18	---	---	---	---	---	7.6	1.6	3.1	7.6	11	391	188
19	---	---	---	---	---	9.2	1.7	0.67	5.8	18	432	148
20	---	---	---	---	---	8.8	1.1	-0.54	4.0	19	444	115
21	---	---	---	---	---	2.0	2.7	2.0	5.4	26	425	85
22	---	---	---	---	---	4.7	5.4	3.8	6.7	26	416	81
23	---	---	---	---	---	1.5	4.7	4.1	6.5	32	380	61
24	---	---	---	---	---	3.9	3.7	2.9	6.4	36	341	49
25	---	---	---	---	---	6.9	6.7	1.0	3.8	41	289	30
26	---	---	---	---	---	8.3	9.1	2.3	3.9	56	242	25
27	---	---	---	---	---	10	2.4	1.3	3.9	67	201	68
28	---	---	---	---	---	6.1	2.5	2.5	1.7	82	178	63
29	---	---	---	---	---	6.9	1.4	4.1	7.1	108	152	84
30	---	---	---	---	---	4.8	-0.04	6.1	9.4	106	135	130
31	---	---	---	---	---	4.0	---	4.8	---	105	119	---
MEAN	---	---	---	---	---	---	3.54	3.08	5.34	29.6	246	180
MAX	---	---	---	---	---	---	12	8.0	10	108	444	507
MIN	---	---	---	---	---	---	-2.0	-2.2	1.7	7.2	95	25
MED	---	---	---	---	---	---	2.4	3.1	5.4	15	232	123



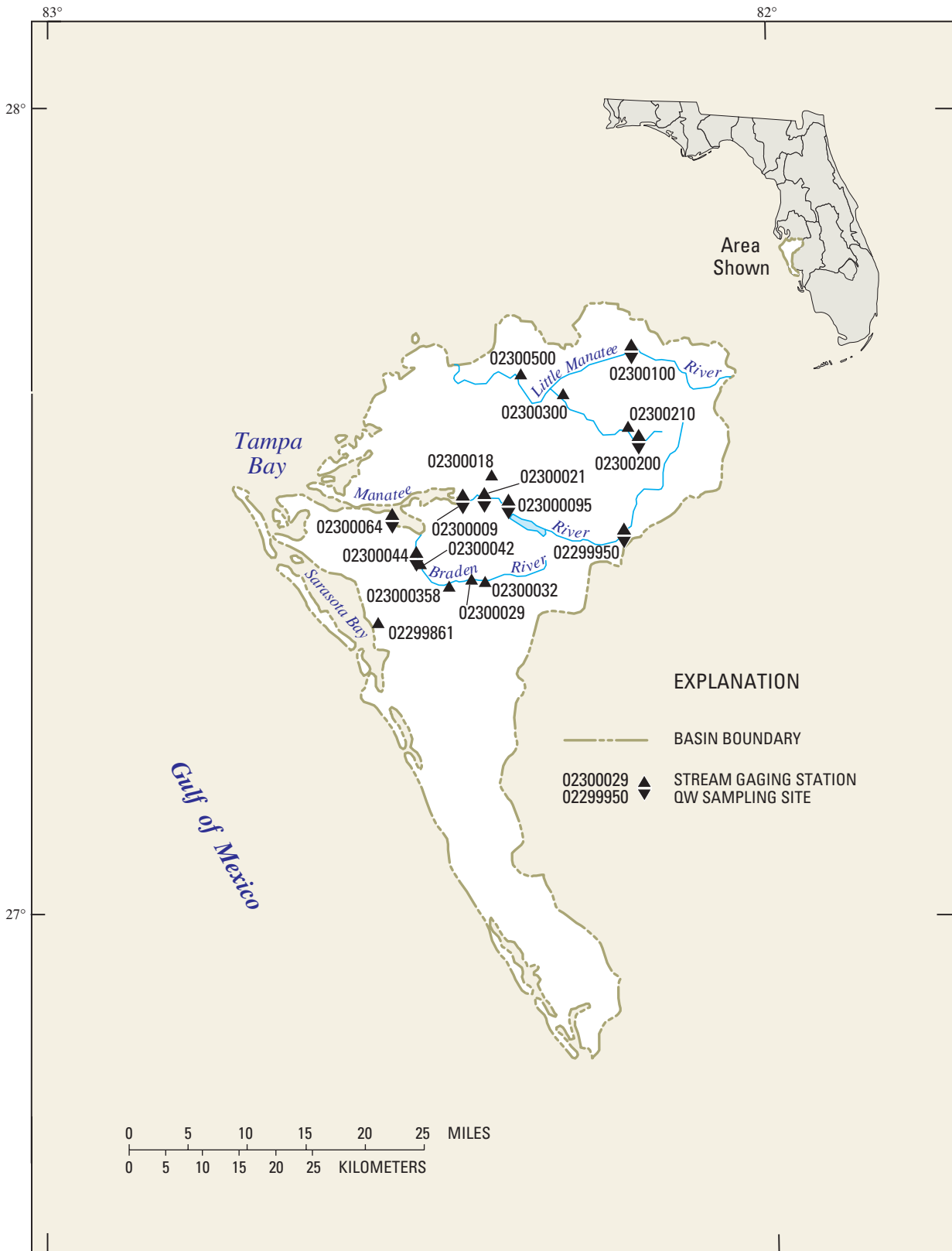


Figure 12.--Location of stream gaging stations in the Coastal area between Myakka and Manatee Rivers, Manatee and Little Manatee River basins.



02299861 WALKER CREEK NEAR SARASOTA, FL.

LOCATION.--Lat 27° 22'03", long 82° 32'40" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.6, T.36 S., R.18 E., Sarasota County, Hydrologic Unit 03100201, on downstream side of 38th Street bridge, 0.6 mi upstream from Whitaker Bayou, and 2.2 mi north of Sarasota.

DRAINAGE AREA.--4.91 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1962 to May 1967, April 1980 to October 1981 (discharge measurements only); August 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (city of Sarasota bench mark).

REMARKS.--Records poor. Stage-discharge relation affected by tide on some days.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	1.2	0.82	1.4	4.8	3.4	1.1	3.5	0.57	2.0	15	11
2	3.4	1.6	0.74	1.4	2.6	3.1	1.1	2.8	0.48	4.0	12	8.6
3	3.2	1.4	0.75	1.4	2.0	2.8	1.0	18	0.48	2.8	10	8.0
4	e2.9	1.4	0.75	1.3	1.8	2.6	1.0	6.6	0.42	1.8	11	7.6
5	2.8	1.4	0.73	1.3	1.6	2.4	1.0	3.8	0.40	1.5	11	45
6	2.6	4.9	1.2	1.2	1.7	2.3	0.97	2.9	0.40	1.3	13	109
7	2.5	2.1	0.84	1.1	1.6	2.2	0.96	2.5	0.38	6.5	14	31
8	2.3	1.7	0.79	1.1	1.5	2.2	0.98	2.1	3.2	3.8	24	18
9	2.2	1.5	0.74	1.2	1.4	2.1	0.94	1.9	3.3	2.3	16	27
10	2.1	1.4	0.72	1.1	1.4	2.0	0.92	1.7	1.6	1.7	12	63
11	2.0	1.3	0.70	1.1	1.4	1.8	2.5	1.6	1.2	3.4	9.8	17
12	1.9	1.3	0.71	1.1	1.4	1.8	9.0	1.5	0.96	4.3	9.0	13
13	2.0	1.1	0.72	1.1	1.4	1.8	5.0	1.3	10	2.4	27	11
14	e1.9	1.00	35	1.1	7.5	1.7	2.6	1.2	12	1.9	20	11
15	1.9	0.98	5.1	1.1	7.8	1.6	1.8	1.1	3.7	1.6	13	22
16	1.7	0.95	4.0	1.2	3.5	4.0	1.7	1.2	5.6	1.5	11	21
17	1.7	0.96	3.6	1.3	2.8	2.6	2.1	1.2	2.8	1.3	9.4	13
18	1.6	0.96	3.0	9.0	2.3	1.9	2.0	1.1	1.9	1.7	8.9	10
19	1.5	3.8	2.6	3.5	2.1	1.7	2.0	1.00	1.6	14	8.3	9.0
20	1.5	1.5	2.3	2.2	2.0	1.6	1.9	0.99	1.7	21	7.8	8.3
21	1.5	1.1	2.1	1.8	2.0	1.6	1.9	0.92	1.6	13	7.4	9.7
22	1.4	0.95	2.0	1.6	1.9	1.5	1.8	0.99	1.3	8.7	7.2	9.0
23	1.4	0.90	2.0	1.6	1.9	1.4	1.7	0.92	1.2	7.3	9.1	8.1
24	1.3	0.88	1.9	1.5	2.2	1.4	1.5	0.84	1.1	8.4	37	7.6
25	1.3	0.88	1.9	1.5	28	1.3	1.5	0.76	1.0	8.0	17	7.4
26	1.3	0.86	1.7	1.5	8.2	1.3	1.5	0.76	1.2	8.5	13	142
27	1.2	0.84	1.7	2.5	5.1	1.2	2.2	0.78	1.4	8.1	10	53
28	e1.3	0.96	1.6	2.0	4.1	1.2	1.6	0.74	1.1	14	8.9	21
29	1.9	0.87	1.6	1.6	3.6	1.2	17	0.68	5.3	9.1	8.2	14
30	1.5	0.83	1.5	1.6	---	1.2	7.4	0.64	3.6	7.8	7.6	11
31	1.3	---	1.5	4.1	---	1.1	---	0.60	---	7.3	11	---
TOTAL	61.1	41.52	85.31	56.5	109.6	60.0	78.67	66.62	71.49	181.0	398.6	746.3
MEAN	1.97	1.38	2.75	1.82	3.78	1.94	2.62	2.15	2.38	5.84	12.9	24.9
MAX	4.0	4.9	35	9.0	28	4.0	17	18	12	21	37	142
MIN	1.2	0.83	0.70	1.1	1.4	1.1	0.92	0.60	0.38	1.3	7.2	7.4
CFSM	0.40	0.28	0.56	0.37	0.77	0.39	0.53	0.44	0.49	1.19	2.62	5.07
IN.	0.46	0.31	0.65	0.43	0.83	0.45	0.60	0.50	0.54	1.37	3.02	5.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)

MEAN	7.02	4.36	4.56	5.33	4.41	5.32	4.09	1.90	8.82	9.77	13.8	13.7
MAX	28.8	17.7	23.7	16.8	16.0	23.5	14.6	4.24	33.5	24.8	45.8	24.9
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1996)	(1992)	(2001)	(2003)	(2004)
MIN	1.34	1.22	1.00	0.75	0.61	0.87	0.60	0.32	1.79	2.62	3.14	4.13
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(1994)	(1998)	(1997)	(1996)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1992 - 2004

ANNUAL TOTAL	4,614.28	1,956.71	
ANNUAL MEAN	12.6	5.35	6.94
HIGHEST ANNUAL MEAN			13.5
LOWEST ANNUAL MEAN			3.13
HIGHEST DAILY MEAN	229	Aug 8	142
LOWEST DAILY MEAN	0.70	Dec 11	0.38
ANNUAL SEVEN-DAY MINIMUM	0.75	Dec 7	0.45
MAXIMUM PEAK FLOW			456
MAXIMUM PEAK STAGE			9.00
ANNUAL RUNOFF (CFSM)	2.57		1.09
ANNUAL RUNOFF (INCHES)	34.96		14.82
10 PERCENT EXCEEDS	27		12
50 PERCENT EXCEEDS	4.2		1.9
90 PERCENT EXCEEDS	0.99		0.92
			13.01
			350
			0.01
			0.02
			971
			13.01
			1.41
			19.20
			14
			2.8
			0.84

e Estimated

02299950 MANATEE RIVER NEAR MYAKKA HEAD, FL.

LOCATION.--Lat 27° 28'24", long 82° 12'41" (1927 North American datum), in SE 1/4 sec.33, T.34 S., R.21 E., Manatee County, Hydrologic Unit 03100202, near center of span on downstream side of bridge on State Highway 64, 2.0 mi downstream from confluence of North and East Forks Manatee River, 5.4 mi east of State Highway 675, 8.4 mi west of Myakka Head, and 36 mi upstream from mouth.

DRAINAGE AREA.--65.3 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1966 to current year.

REVISED RECORDS.--WRD FL 1968: 1966. WDR FL-75-3: Drainage area.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 40.93 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Extreme low flow affected at times by ground-water pumpage into channel upstream from station by Manatee County Utilities since about September 1984. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	24	13	20	45	88	9.0	17	4.9	44	89	242
2	265	23	13	19	59	68	8.7	28	3.5	30	119	284
3	182	23	10	19	48	55	9.2	24	3.0	46	356	184
4	137	23	10	18	35	47	10	57	5.6	68	483	115
5	107	20	13	17	28	42	10	60	12	44	494	209
6	87	25	13	16	24	38	7.4	34	8.8	33	317	2,290
7	71	48	11	16	23	34	5.5	20	6.2	57	172	1,680
8	60	43	13	15	21	32	5.7	16	7.3	48	746	845
9	52	34	15	14	18	28	6.6	15	12	34	661	742
10	46	28	13	13	18	26	6.5	13	9.9	24	691	1,040
11	41	26	10	14	17	25	6.1	12	9.9	20	398	663
12	40	24	11	14	16	22	13	11	21	23	238	401
13	e38	21	9.8	14	16	22	41	8.7	24	25	283	269
14	35	19	64	14	16	20	56	6.2	20	24	1,350	189
15	31	16	149	14	53	20	33	5.9	23	19	1,640	148
16	e30	16	127	13	61	30	19	6.0	28	20	1,060	121
17	23	17	185	14	45	52	13	7.0	23	17	831	101
18	22	18	173	19	32	60	12	8.9	15	18	597	85
19	22	19	109	38	25	47	11	6.5	9.2	177	e1,000	71
20	20	20	72	39	22	33	7.8	4.1	6.3	529	e600	59
21	19	17	54	34	21	25	5.9	3.8	4.6	618	e520	e55
22	18	15	47	27	20	21	7.2	3.7	3.5	369	e510	e43
23	15	17	43	22	20	18	8.6	3.2	2.6	180	e470	e40
24	14	16	37	19	17	15	6.9	3.3	2.6	107	e700	38
25	14	13	35	18	181	15	7.7	3.6	6.5	67	e440	34
26	13	12	31	17	588	17	9.4	4.1	6.5	42	e300	333
27	13	14	27	17	401	16	8.9	3.8	23	145	216	1,600
28	13	15	25	19	196	15	5.9	3.6	108	267	164	825
29	33	15	23	16	122	14	4.6	3.8	134	191	129	426
30	45	13	24	16	---	13	6.3	3.4	77	199	104	251
31	34	---	23	19	---	e9.6	---	4.5	---	138	155	---
TOTAL	1,980	634	1,402.8	584	2,188	967.6	361.9	401.1	620.9	3,623	15,833	13,383
MEAN	63.9	21.1	45.3	18.8	75.4	31.2	12.1	12.9	20.7	117	511	446
MAX	440	48	185	39	588	88	56	60	134	618	1,640	2,290
MIN	13	12	9.8	13	16	9.6	4.6	3.2	2.6	17	89	34
CFSM	0.98	0.32	0.69	0.29	1.16	0.48	0.18	0.20	0.32	1.79	7.82	6.83
IN.	1.13	0.36	0.80	0.33	1.25	0.55	0.21	0.23	0.35	2.06	9.02	7.62
*PREC	1.24	1.40	3.46	2.21	4.29	0.52	2.01	0.90	6.25	9.07	---	9.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2004, BY WATER YEAR (WY)

	52.1	32.5	35.2	40.9	42.4	58.1	24.4	22.2	95.5	125	181	191
MEAN	52.1	32.5	35.2	40.9	42.4	58.1	24.4	22.2	95.5	125	181	191
MAX	235	335	307	203	229	358	128	196	597	383	511	544
(WY)	(1972)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1991)	(2003)	(1968)	(2004)	(2001)
MIN	3.24	2.69	4.72	5.60	6.82	2.66	0.54	0.58	2.48	12.9	17.2	8.06
(WY)	(1975)	(1975)	(1985)	(1968)	(1974)	(1974)	(1975)	(1967)	(1988)	(1972)	(1980)	(1996)

02299950 MANATEE RIVER NEAR MYAKKA HEAD, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1967 - 2004	
ANNUAL TOTAL	60,835.8		41,979.3			
ANNUAL MEAN	167		115		75.1	
HIGHEST ANNUAL MEAN					173	2003
LOWEST ANNUAL MEAN					23.0	1990
HIGHEST DAILY MEAN	6,440	Jun 22	2,290	Sep 6	6,440	Jun 22, 2003
LOWEST DAILY MEAN	9.5	Apr 24	2.6	Jun 23	0.12	May 24, 1975
ANNUAL SEVEN-DAY MINIMUM	11	Apr 19	3.6	May 22	0.18	May 21, 1975
MAXIMUM PEAK FLOW			3,030	Sep 6	11,700	Jun 21, 2003
MAXIMUM PEAK STAGE			15.94	Sep 6	20.58	Jun 21, 2003
ANNUAL RUNOFF (CFSM)	2.55		1.76		1.15	
ANNUAL RUNOFF (INCHES)	34.66		23.91		15.63	
10 PERCENT EXCEEDS	402		322		179	
50 PERCENT EXCEEDS	35		23		18	
90 PERCENT EXCEEDS	13		6.6		4.3	

e Estimated  
 \* Precipitation, total, inches

02299950 MANATEE RIVER NEAR MYAKKA HEAD, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
JUN 07...	1232	1.48	6.0	--	7.8	7.7	267	25.0	--	--	--	--	--
SEP 01...	1246	7.41	235	300	5.5	6.8	93	25.8	7.52	2.97	2.52	5.62	6.61
Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite + nitrate water, unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)
JUN 07...	--	--	--	--	.30	--	.01	--	.030	--	<.01	--	.510
SEP 01...	<.2	5.92	9.4	88	--	E.02	--	.06	--	E.004	--	.34	--
Date	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfiltered by analysis, mg/L (62855)	Organic carbon, water, unfltrd mg/L (00680)	BOD, water, unfltrd 5 day, 20 degC mg/L (00310)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic water, unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)	Mercury, water, unfltrd recover-able, ug/L (71900)	Nickel, water, unfltrd recover-able, ug/L (01067)
JUN 07...	.53	--	7.3	<.1	--	--	--	--	--	--	--	--	--
SEP 01...	.43	1.22	26.3	--	332	<2	<.04	E.5	1.7	740	.33	E.01	.90
Date	Strontium, water, fltrd, ug/L (01080)	Zinc, water, unfltrd recover-able, ug/L (01092)											
JUN 07...	--	--											
SEP 01...	143	3											

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

02300009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL.

LOCATION.--Lat 27° 31'14", long 82° 24'07" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.16, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on left bank, on wooden "A" frame structure on Upper Manatee River Road, 3.0 mi upstream from Ft. Hamer, and 6.0 mi downstream from the dam.

DRAINAGE AREA.--139 mi<sup>2</sup>.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--March 1997 to March 1998 (gage heights only); January 2001 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 26, 2001, at datum 18.40 ft higher.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.87 ft, Sept 14, 2001; minimum, 1.71 ft below NGVD, Jan. 24, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.95 ft, Sept. 26; minimum, 1.33 ft below NGVD, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.47	0.73	1.79	-0.67	0.90	-0.43	1.39	-0.42	1.56	-0.67	1.75	-0.44
2	2.23	-0.11	1.62	-0.37	0.73	-0.77	1.63	-0.65	1.13	-0.88	0.96	-0.73
3	2.30	-0.09	1.36	-0.30	0.74	-0.39	1.87	-0.66	0.90	-0.93	1.74	-0.89
4	2.43	-0.03	2.18	0.35	2.09	-0.14	---	-0.59	1.70	-0.97	1.24	-0.64
5	2.05	0.01	1.99	0.33	1.72	-0.11	2.22	-0.53	1.81	-0.79	1.97	-0.48
6	2.20	0.37	2.05	0.14	0.81	-0.55	2.19	-0.63	1.93	-0.64	2.17	-0.30
7	2.55	0.53	2.03	0.04	1.20	-1.00	1.77	-1.33	2.36	-0.22	1.80	-0.52
8	2.21	0.45	2.22	-0.23	1.78	-0.73	1.35	-1.00	1.23	-1.27	1.78	-0.56
9	2.21	0.21	2.13	-0.41	1.85	-0.78	2.26	-0.38	1.08	-0.86	1.63	-0.53
10	2.15	0.08	1.42	-0.86	2.24	-0.39	3.00	-0.43	1.45	-0.46	1.76	-0.20
11	2.24	0.03	2.04	-0.57	---	-0.30	1.29	-1.12	1.62	-0.31	1.64	-0.90
12	2.37	0.09	2.31	-0.32	2.03	-0.67	1.24	-0.66	1.75	-0.43	2.05	-0.72
13	2.18	-0.07	2.56	-0.04	1.68	-0.53	1.44	-0.40	1.57	-0.55	1.68	-0.63
14	2.26	0.21	1.80	-0.75	2.24	0.34	1.67	-0.23	2.35	-0.75	1.91	-0.98
15	2.41	-0.22	2.06	-0.15	1.02	-0.82	1.58	0.07	2.03	-0.17	2.11	-0.86
16	1.59	-0.52	2.10	-0.11	1.50	-0.31	1.88	-0.37	1.49	-1.05	2.26	-0.55
17	1.95	0.00	1.52	-0.32	2.29	0.59	2.39	-0.56	0.91	-1.08	1.34	-0.33
18	2.16	-0.11	2.12	0.36	1.80	0.00	2.68	-0.18	1.68	-1.28	1.79	-0.71
19	1.63	-0.08	2.62	0.82	1.62	-0.07	1.53	-0.47	1.02	-1.20	1.98	-0.49
20	1.79	-0.34	0.84	-0.19	1.47	-0.73	2.47	-0.81	2.00	-0.64	1.65	-0.42
21	2.01	0.10	1.86	-0.17	1.77	-1.13	1.96	-0.91	2.31	-0.34	1.78	-0.31
22	2.13	0.16	2.09	-0.48	---	-1.05	2.14	-0.77	2.11	-0.34	1.84	-0.16
23	2.19	0.28	2.31	-0.44	2.19	-0.77	2.02	-0.75	1.52	-0.40	0.75	-0.82
24	2.06	-0.02	2.61	-0.41	2.68	-0.53	1.77	-0.65	2.04	0.53	0.76	-0.94
25	2.02	-0.36	2.86	-0.42	2.36	-0.76	1.79	-0.39	3.03	0.06	1.49	-0.90
26	2.18	-0.44	2.69	-0.57	1.85	-0.92	1.70	-0.15	2.41	1.64	1.47	-0.78
27	2.54	-0.29	2.61	-0.35	1.54	-0.83	1.75	0.44	1.14	0.76	1.56	-0.73
28	3.04	0.05	2.54	-0.33	1.59	-0.54	0.82	-0.70	1.43	-1.12	2.02	-0.59
29	3.07	-0.46	---	-1.31	1.51	-0.20	1.38	-0.89	1.37	-0.52	1.74	-0.60
30	2.15	-0.75	1.00	-0.82	1.66	0.25	0.94	-0.45	---	---	1.51	-0.85
31	1.18	-0.91	---	---	1.42	0.16	1.11	-0.89	---	---	1.47	-0.38
MAX	3.07	0.73	2.86	0.82	---	0.59	---	0.44	3.03	1.64	2.26	-0.16
MIN	1.18	-0.91	0.84	-1.31	---	-1.13	---	-1.33	0.90	-1.28	0.75	-0.98

## 02300009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.33	-0.21	1.62	-0.34	2.49	-0.28	2.48	-0.58	3.07	0.25	1.93	0.15
2	1.61	-0.53	2.03	0.10	2.55	-0.47	2.64	---	2.74	0.65	2.29	0.17
3	2.19	-0.27	2.17	-0.26	2.71	---	2.74	-0.36	4.21	0.65	---	0.21
4	1.77	-0.13	1.58	-0.77	2.69	-0.67	2.61	-0.57	---	---	2.35	0.21
5	1.81	-0.29	1.88	-0.78	2.87	-0.63	2.51	-0.47	2.27	1.45	3.17	1.16
6	1.91	-0.37	2.18	0.08	2.53	-0.46	2.11	-0.14	2.43	1.33	4.99	---
7	2.18	0.19	2.35	-0.81	2.50	-0.49	1.68	-0.30	2.18	0.74	4.87	4.76
8	2.67	-0.34	2.48	-0.74	2.12	-0.40	1.54	-0.12	2.09	1.27	---	2.58
9	2.55	-0.27	2.47	-0.60	1.86	-0.37	1.39	0.06	2.38	0.79	3.37	3.19
10	2.21	-0.42	2.09	-0.62	1.54	-0.03	1.51	-0.26	2.05	1.73	---	---
11	2.66	-0.64	1.77	-0.56	1.58	0.28	1.69	-0.16	2.57	0.94	4.41	1.63
12	2.39	0.00	1.80	-0.46	1.73	0.05	1.64	-0.46	2.55	0.23	2.15	0.33
13	2.42	-0.19	1.39	-0.24	1.81	-0.16	1.97	-0.28	2.42	1.36	1.93	0.48
14	1.34	-0.58	1.11	-0.26	2.04	-0.23	2.19	-0.32	---	---	2.08	0.46
15	0.28	-1.03	1.48	-0.12	2.18	-0.17	2.40	-0.39	4.45	4.22	3.40	1.10
16	1.12	-0.82	1.29	-0.54	2.16	-0.45	2.38	-0.35	2.85	1.96	2.62	0.60
17	0.98	-0.67	1.54	-0.55	2.22	-0.67	2.63	-0.25	2.69	1.70	2.34	0.16
18	1.11	-0.75	1.77	-0.61	2.28	-0.51	2.89	---	2.40	0.90	2.18	-0.22
19	1.55	-0.64	2.12	-0.32	2.40	---	2.80	0.06	2.17	1.06	2.28	-0.46
20	1.66	-0.51	2.23	0.50	2.40	-0.46	2.74	1.23	1.97	0.72	1.93	-0.45
21	2.13	-0.35	2.11	-0.17	2.42	-0.44	1.99	1.26	2.17	0.36	1.73	-0.99
22	2.04	0.35	2.46	-0.34	2.15	-0.29	1.77	0.21	2.11	0.19	2.02	-0.48
23	1.79	-0.59	2.38	-0.13	1.91	-0.43	1.75	0.43	2.31	0.85	2.16	-0.37
24	1.82	-0.78	2.13	-0.20	1.48	-0.25	1.68	0.16	2.36	0.72	2.14	-0.32
25	1.95	-0.73	1.92	-0.21	1.57	-0.17	1.75	-0.21	2.26	-0.15	2.46	0.76
26	1.73	-0.49	1.77	-0.31	1.49	-0.04	1.83	0.15	2.31	0.23	5.95	---
27	1.48	-0.34	1.34	-0.45	1.69	-0.11	2.29	0.33	2.47	-0.06	3.44	2.84
28	1.20	-0.83	1.48	-0.25	1.87	-0.39	2.26	1.23	---	---	3.24	1.52
29	0.96	-0.84	1.53	-0.14	2.17	-0.14	3.44	0.38	2.67	0.16	2.15	0.32
30	1.63	-0.62	1.98	0.02	2.31	-0.65	2.61	-0.03	2.48	-0.07	2.22	0.18
31	---	---	2.21	-0.22	---	---	2.89	0.01	2.26	-0.03	---	---
MAX	2.67	0.35	2.48	0.50	2.87	---	3.44	---	---	---	---	---
MIN	0.28	-1.03	1.11	-0.81	1.48	---	1.39	---	---	---	---	---

02300009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1997 to March 1998; January 2001 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 1.0 ft below the surface and 1.0 ft above the bottom.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 32,600 microsiemens, June 7, 8, 2002; bottom sensor maximum, 32,800 microsiemens, June 7, 8, 2002; top sensor minimum, 75 microsiemens, July 13, 2003; bottom sensor minimum, 51 microsiemens, Sept. 10, 11, 2004.

TEMPERATURE.--Top sensor maximum, 33.8° C, June 13, 2001, June 25, 2004; bottom sensor maximum, 33.4° C, July 7, 2004; top sensor minimum, 10.7° C, Jan. 24, 2003; bottom sensor minimum, 11.9° C, Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 26,200 microsiemens, May 20; bottom sensor maximum, 25,000 microsiemens, May 20; top sensor minimum, 103 microsiemens, Sept. 26; bottom sensor minimum, 51 microsiemens, Sept. 10, 11.

TEMPERATURE.--Top sensor maximum, 33.8° C, June 25; bottom sensor maximum, 33.4° C, July 10; top sensor minimum, 12.2° C, Dec. 21; bottom sensor minimum, 13.5° C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT BELOW SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	130	121	6,510	1,050	---	---	5,430	375	10,700	1,310	373	212
2	160	111	6,160	1,020	---	---	8,030	499	9,000	1,140	492	261
3	213	149	9,140	777	8,060	1,400	9,300	609	8,200	1,330	492	246
4	249	169	9,780	2,060	12,900	2,970	11,200	857	7,920	452	378	220
5	204	117	8,380	2,260	13,300	3,770	11,900	1,250	1,630	228	567	247
6	165	116	7,600	309	12,500	1,490	12,600	628	3,450	291	860	292
7	202	117	2,040	174	12,700	941	1,480	1,000	9,190	667	1,000	315
8	230	142	2,500	242	14,300	1,640	1,510	898	3,470	702	815	258
9	255	125	2,840	262	14,900	1,120	14,000	1,510	5,040	457	911	256
10	335	141	2,040	258	18,300	3,690	18,800	2,600	7,320	1,230	997	342
11	327	149	4,490	448	20,000	4,540	10,700	1,430	8,910	1,510	1,380	322
12	461	155	6,240	255	15,800	2,840	10,600	1,250	10,200	1,360	2,380	410
13	516	155	8,460	730	14,300	1,800	12,000	3,380	9,570	1,270	1,990	450
14	730	163	5,710	598	2,750	2,100	13,600	4,020	13,500	1,100	4,260	386
15	996	160	8,400	909	4,480	628	12,600	5,240	4,120	280	6,440	508
16	537	167	10,000	802	1,800	231	14,100	3,290	901	334	4,760	518
17	915	197	---	---	1,350	159	16,700	1,400	713	271	2,270	271
18	1,260	196	---	---	222	160	16,700	4,800	904	280	3,000	348
19	1,260	223	---	---	452	176	16,100	2,880	2,490	365	4,210	255
20	1,240	246	---	---	744	254	14,600	1,350	4,380	388	655	255
21	2,040	283	---	---	772	280	9,750	1,840	4,550	354	2,950	324
22	1,740	234	---	---	1,230	183	12,300	1,220	5,540	522	3,660	477
23	2,740	301	---	---	1,850	215	11,400	1,210	4,280	522	1,510	364
24	3,100	293	---	---	1,790	112	8,080	1,100	7,040	842	1,950	416
25	2,960	288	---	---	851	135	11,600	2,760	1,210	203	5,220	491
26	4,180	269	---	---	3,220	242	11,300	3,220	217	202	5,750	632
27	6,610	469	---	---	3,690	222	12,200	5,110	247	211	7,200	724
28	9,900	782	---	---	717	126	7,690	1,630	504	247	10,500	900
29	10,100	638	---	---	3,560	145	11,600	1,070	310	212	9,630	993
30	7,010	430	---	---	4,470	471	9,170	2,620	---	---	11,000	950
31	4,240	764	---	---	4,390	555	9,200	956	---	---	12,500	2,300
MONTH	10,100	111	---	---	---	---	18,800	375	13,500	202	12,500	212

## 02300009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT BELOW SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14,300	3,180	16,300	5,340	18,900	3,650	2,280	394	315	245	211	136
2	10,300	1,910	17,200	7,950	20,600	3,700	4,840	382	270	220	138	116
3	12,600	2,840	17,400	5,150	22,000	3,700	4,460	376	228	213	128	116
4	10,700	3,070	14,600	3,140	23,000	4,050	6,000	408	218	195	129	116
5	10,900	2,900	16,100	3,140	24,200	4,520	5,340	429	198	182	131	123
6	11,500	2,940	18,300	3,290	22,900	6,030	2,670	414	196	185	126	119
7	12,600	2,980	19,700	3,500	22,200	5,940	1,930	389	190	171	133	123
8	15,900	3,090	21,400	3,890	19,000	6,550	2,290	433	181	172	139	132
9	15,900	3,770	22,000	4,930	16,000	624	2,280	571	185	145	132	117
10	14,700	3,200	21,000	5,670	4,680	667	3,140	609	180	154	119	106
11	17,300	2,470	20,600	6,590	5,390	520	4,810	775	183	167	124	113
12	13,500	5,740	20,500	7,720	1,320	457	4,670	715	186	164	132	123
13	10,100	2,500	18,900	9,850	2,190	807	7,010	1,080	187	155	145	132
14	10,000	1,200	18,900	9,930	1,050	393	8,240	1,240	161	147	143	137
15	5,160	1,010	20,000	10,900	1,530	527	9,850	1,290	152	143	145	137
16	3,630	1,310	19,100	9,270	602	290	10,400	1,420	156	140	160	144
17	3,940	1,430	21,300	9,230	573	396	12,200	1,510	145	130	186	159
18	4,670	1,480	22,600	8,710	842	431	13,900	1,870	145	129	221	186
19	6,490	1,730	25,300	9,360	1,580	592	7,790	400	137	133	256	221
20	7,060	1,320	26,200	4,960	2,620	677	417	340	137	129	293	256
21	11,500	1,280	17,900	482	3,700	760	397	345	136	123	455	289
22	10,800	1,840	18,800	494	4,070	985	395	310	142	136	662	344
23	10,000	1,480	890	354	4,070	1,020	423	305	141	121	908	330
24	12,800	1,380	7,880	394	3,660	1,120	371	307	121	118	1,180	322
25	14,200	1,720	4,640	370	5,180	1,160	514	328	123	116	1,610	107
26	13,300	2,820	5,860	384	5,400	1,410	392	240	127	123	163	103
27	12,800	3,490	6,720	614	6,620	301	294	239	130	126	166	104
28	13,300	1,880	8,980	865	590	302	299	264	132	127	168	106
29	12,200	2,510	10,200	1,530	1,680	354	276	261	152	132	156	125
30	16,500	3,740	15,100	2,790	394	353	277	256	143	132	158	126
31	---	---	16,400	2,760	---	---	306	256	219	141	---	---
MONTH	17,300	1,010	26,200	354	24,200	290	13,900	239	315	116	1,610	103





## 0230009 MANATEE RIVER AT DEVIL'S ELBOW NEAR FT. HAMER, FL.—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.6	25.9	25.8	24.6	---	---	21.0	18.7	18.7	16.1	20.5	18.4
2	26.4	25.4	25.8	24.7	---	---	21.4	18.5	19.0	16.8	21.8	19.4
3	27.0	24.9	25.4	24.7	19.6	17.7	21.7	19.0	19.8	16.3	22.3	20.4
4	27.4	25.8	25.7	24.7	20.9	18.5	22.3	20.4	21.5	17.1	22.5	19.9
5	27.0	25.7	26.8	25.0	20.9	19.7	22.7	20.3	21.3	18.4	23.5	20.9
6	27.7	25.8	26.6	25.4	20.5	18.2	22.9	20.5	22.8	19.6	24.7	21.9
7	27.6	26.0	26.5	25.0	18.3	15.1	22.2	16.4	22.5	20.4	25.4	23.6
8	28.0	25.7	27.0	25.6	17.3	14.4	19.2	16.5	20.5	17.4	25.0	22.9
9	28.2	25.9	26.6	25.4	18.4	16.1	19.3	17.8	19.4	17.0	22.9	21.3
10	27.4	26.5	25.7	24.5	19.5	17.8	18.9	16.3	21.0	18.6	22.3	20.5
11	27.6	26.4	26.0	24.4	19.1	18.2	16.4	14.2	22.1	20.1	21.8	19.2
12	28.0	26.4	26.3	24.5	18.9	17.2	16.8	14.5	23.0	20.9	22.0	19.6
13	28.8	27.1	26.2	24.7	18.5	17.1	17.2	15.0	23.2	22.5	22.4	19.9
14	29.2	27.9	25.4	23.3	19.1	18.1	17.2	15.5	22.8	21.9	22.6	20.1
15	29.3	27.6	24.7	22.6	18.6	16.5	17.2	15.7	22.0	20.5	22.7	21.2
16	28.0	26.1	24.4	22.4	18.1	16.3	17.8	15.6	20.8	19.1	22.7	22.0
17	27.5	25.9	---	---	18.4	16.9	17.5	15.3	19.8	18.2	23.4	20.9
18	27.3	25.9	---	---	17.4	16.2	18.1	16.6	18.6	16.0	24.2	21.1
19	27.1	25.9	---	---	17.1	15.9	18.5	17.2	18.5	15.2	25.0	22.2
20	26.8	26.0	---	---	16.0	14.0	18.4	14.8	18.8	16.9	24.2	21.5
21	26.9	25.3	---	---	15.1	12.2	17.9	15.4	20.2	17.9	25.1	22.2
22	26.6	24.7	---	---	16.4	13.5	17.8	15.9	21.5	19.0	24.8	23.0
23	26.7	24.6	---	---	17.7	14.8	17.4	15.5	22.0	19.9	23.2	20.9
24	26.1	23.8	---	---	18.0	16.3	17.5	15.4	23.0	21.2	22.3	20.6
25	25.6	23.8	---	---	17.8	15.9	18.1	16.0	22.5	19.5	22.4	20.4
26	26.4	24.7	---	---	17.9	16.0	19.7	17.4	20.4	19.4	23.0	20.8
27	27.3	25.5	---	---	18.6	16.5	21.0	19.6	19.4	17.9	23.5	21.4
28	26.8	25.9	---	---	18.6	16.1	20.0	17.7	19.0	16.3	24.3	21.7
29	27.0	25.3	---	---	19.2	17.5	18.6	15.7	19.7	17.4	24.8	21.8
30	26.3	24.7	---	---	19.8	18.1	17.8	16.0	---	---	24.9	22.0
31	26.3	24.5	---	---	21.5	18.7	17.3	16.1	---	---	25.2	22.9
MONTH	29.3	23.8	---	---	21.5	12.2	22.9	14.2	23.2	15.2	25.4	18.4
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24.6	23.0	28.8	26.7	32.3	29.9	31.8	29.3	29.7	28.2	31.0	28.7
2	23.9	21.7	29.3	27.4	32.3	29.9	31.0	29.4	28.9	27.7	30.8	29.0
3	23.9	21.6	28.5	27.0	32.3	29.7	30.7	28.7	28.5	27.9	31.2	29.3
4	23.5	21.5	28.0	25.7	31.3	28.8	30.7	28.7	28.4	27.8	30.2	28.4
5	23.6	21.3	27.7	25.2	30.9	28.2	31.1	28.9	29.1	27.6	28.4	26.3
6	23.7	21.1	27.7	24.9	30.0	28.6	31.4	29.1	29.4	27.7	26.4	26.2
7	24.1	22.0	28.0	25.2	30.6	28.0	30.5	29.2	28.9	28.1	26.7	26.1
8	24.9	22.7	28.3	25.5	30.7	28.3	31.5	28.5	29.2	28.3	27.1	26.4
9	25.9	23.7	28.0	25.8	32.3	28.5	32.9	30.0	29.1	27.5	27.1	26.6
10	26.7	24.2	27.1	25.8	31.0	28.5	33.6	31.1	29.9	27.0	28.0	26.5
11	26.6	24.2	28.3	25.8	30.8	28.5	33.4	31.5	29.4	28.0	28.5	27.3
12	25.4	23.7	29.4	26.2	30.0	27.6	32.2	30.5	30.1	29.0	28.9	27.4
13	23.9	22.5	28.9	26.5	30.8	28.7	32.8	30.7	29.3	27.4	29.4	27.4
14	22.7	21.1	28.7	26.5	30.4	27.9	32.8	30.8	28.1	27.4	28.3	27.4
15	23.3	19.6	28.7	26.4	30.5	28.2	32.3	30.8	28.3	27.1	28.2	27.1
16	24.1	20.6	28.5	26.7	30.4	26.7	31.7	30.3	28.0	26.3	29.0	27.5
17	24.6	21.7	28.7	26.2	30.8	28.7	30.4	29.0	28.8	26.3	30.0	28.1
18	25.0	22.2	29.0	26.5	30.8	28.6	30.1	28.7	29.4	26.8	31.0	29.0
19	25.3	22.7	28.6	26.6	31.6	29.2	29.3	27.5	29.6	26.8	31.6	29.3
20	26.1	23.1	29.3	26.5	32.2	29.7	28.5	28.0	29.3	27.6	30.1	28.7
21	25.5	23.8	29.2	26.2	32.3	30.1	30.1	27.7	29.1	27.5	28.7	27.2
22	26.6	23.4	29.7	27.2	32.7	30.3	29.9	27.4	30.0	27.0	27.6	26.4
23	27.3	24.2	29.2	27.1	32.4	30.4	30.5	27.7	29.6	27.7	28.2	26.2
24	28.0	24.7	29.5	27.3	33.1	30.2	29.9	28.5	29.4	27.7	28.2	26.7
25	27.9	25.5	29.9	27.3	33.8	30.2	31.9	28.7	29.7	27.7	27.6	26.5
26	28.7	26.2	30.2	27.5	32.7	30.9	30.5	27.8	29.9	28.2	26.8	25.6
27	27.6	25.9	31.2	27.9	31.9	29.1	29.9	27.5	29.8	28.0	26.3	25.5
28	27.8	24.1	31.5	28.5	30.9	29.1	30.0	28.1	30.2	27.7	26.8	25.7
29	26.7	24.5	31.3	28.8	31.4	29.2	29.5	28.3	30.9	28.4	28.5	25.7
30	28.9	25.0	31.8	29.4	31.4	28.8	30.9	28.6	29.9	27.5	29.4	25.8
31	---	---	32.1	29.9	---	---	31.1	28.7	31.0	28.5	---	---
MONTH	28.9	19.6	32.1	24.9	33.8	26.7	33.6	27.4	31.0	26.3	31.6	25.5



## 023000095 MANATEE RIVER AT RYE, FL.

LOCATION.--Lat 27° 30'48", long 82° 22'02" (1927 North American datum), in SW $\frac{1}{4}$  sec.13, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on downstream side of bridge on Rye Road, 0.5 mi east of Rye, 1.0 mi downstream from Manatee Dam, 2.0 mi north of State Highway 64, and 22 mi upstream from mouth.

DRAINAGE AREA.--137 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 2000 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only). Records of gage heights prior to October 2000 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers).

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low. Gage heights affected at times by releases from the Manatee Dam upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.72 ft, June 21, 2003 (from high water mark); minimum, 1.60 ft below NGVD, Oct. 9, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.10 ft, Sept. 7; minimum, 1.10 ft below NGVD, Feb. 8.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.91	2.30	1.70	-0.67	0.78	-0.55	1.28	-0.54	1.44	-0.74	1.67	-0.21
2	2.72	-0.07	1.55	-0.45	0.61	-0.88	1.51	-0.70	1.01	-0.89	1.53	-0.70
3	2.26	-0.09	1.26	-0.38	0.59	-0.51	---	-0.70	0.76	-0.89	1.85	-0.81
4	2.39	0.02	2.13	0.23	1.50	-0.25	1.73	-0.65	1.60	-0.91	1.34	-0.62
5	2.08	0.61	1.93	0.23	1.98	-0.22	2.09	-0.57	1.69	-0.81	1.91	-0.50
6	2.31	0.73	2.09	0.09	0.74	-0.56	2.08	-0.63	1.81	-0.67	2.10	-0.33
7	2.59	0.48	2.07	0.03	1.11	-0.89	1.68	-1.08	2.23	-0.25	1.73	-0.53
8	2.18	0.42	2.17	-0.24	1.68	-0.70	1.22	-0.95	1.11	-1.10	1.71	-0.43
9	2.19	0.18	2.08	-0.43	1.76	-0.79	2.16	-0.43	0.93	-0.88	1.55	-0.58
10	2.12	0.06	1.35	-0.80	2.15	-0.46	2.89	-0.47	1.30	-0.54	1.67	-0.28
11	2.32	0.00	1.99	-0.58	---	-0.34	1.14	-1.01	1.48	-0.41	1.55	-0.84
12	2.34	0.08	2.25	-0.37	1.94	-0.67	1.10	-0.73	1.66	-0.52	1.98	-0.73
13	2.14	-0.07	2.50	-0.11	1.57	-0.61	1.29	-0.50	1.47	-0.61	1.57	-0.66
14	2.21	0.16	1.74	-0.74	2.09	0.33	1.54	-0.34	2.42	-0.78	1.82	-0.93
15	2.38	-0.21	1.99	-0.24	1.13	-0.82	1.45	-0.08	1.96	0.60	2.01	-0.86
16	1.56	-0.45	2.03	-0.20	---	---	1.75	-0.49	1.42	-0.92	2.28	-0.61
17	1.91	-0.04	1.44	-0.41	---	---	2.26	-0.64	1.18	-0.95	1.26	-0.36
18	2.11	-0.15	2.04	0.25	---	---	2.58	-0.27	1.60	-1.04	1.70	-0.73
19	1.89	-0.16	2.59	0.70	---	---	1.44	-0.50	0.92	-1.03	1.90	-0.52
20	1.76	-0.38	0.76	-0.28	1.36	-0.65	2.37	-0.76	1.93	-0.62	1.57	-0.48
21	1.95	0.04	1.80	-0.22	---	-0.88	1.87	-0.84	2.24	-0.33	1.72	-0.38
22	2.09	0.10	2.02	-0.46	1.82	-0.82	2.05	-0.73	2.03	-0.40	1.75	-0.25
23	2.15	0.20	2.23	-0.46	2.10	-0.69	1.93	-0.72	1.42	-0.45	0.60	-0.90
24	2.01	-0.06	2.54	-0.44	2.61	-0.44	1.66	-0.67	1.98	-0.22	0.62	-0.93
25	1.98	-0.35	2.79	-0.40	2.27	-0.67	1.69	-0.46	6.92	5.37	1.38	-0.92
26	2.13	-0.44	2.62	-0.56	1.76	-0.83	1.60	-0.28	---	---	1.34	-0.80
27	2.50	-0.29	2.54	-0.38	1.43	-0.62	1.65	0.22	---	---	1.45	-0.79
28	2.98	0.03	2.44	-0.39	1.49	-0.60	0.72	-0.75	1.53	-0.83	1.92	-0.68
29	3.03	-0.41	---	-1.07	1.40	-0.30	1.26	-0.93	1.61	0.78	1.64	-0.68
30	2.09	-0.70	0.90	-0.83	1.54	0.09	0.85	-0.55	---	---	1.42	-0.88
31	1.09	-0.84	---	---	1.30	0.02	0.97	-0.93	---	---	1.39	-0.49
MAX	3.91	2.30	2.79	0.70	---	---	---	0.22	---	---	2.28	-0.21
MIN	1.09	-0.84	0.76	-1.07	---	---	---	-1.08	---	---	0.60	-0.93



## 023000095 MANATEE RIVER AT RYE, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 2000 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface and near the bottom.

REMARKS.--Specific conductance records good, temperature records excellent.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 8,220 microsiemens, May 31, 2002; bottom sensor maximum, 7,970 microsiemens, May 31, 2002; top sensor minimum, 65 microsiemens, July 8, 2003; bottom sensor minimum, 66 microsiemens, Aug. 23, 2004.

TEMPERATURE.--Top sensor maximum, 32.5°C, July 10, 2004; bottom sensor maximum, 32.3°C, July 10, 2004; top sensor minimum, 9.7°C, Jan. 5, 2001; bottom sensor minimum, 9.6°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 2,300 microsiemens, May 20; bottom sensor maximum, 2,380 microsiemens, May 20; top sensor minimum, 79 microsiemens, Aug. 25; bottom sensor minimum, 66 microsiemens, Aug. 23.

TEMPERATURE.--Top sensor maximum, 32.5°C, July 10; bottom sensor maximum, 32.3°C, July 10; top sensor minimum, 12.4°C, Dec. 21; bottom sensor minimum, 12.3°C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	120	107	352	213	357	280	169	163	218	189	225	214
2	125	103	341	254	333	213	176	163	231	197	221	202
3	131	120	308	214	311	243	183	164	238	197	245	199
4	316	104	309	232	314	269	204	167	242	191	232	220
5	105	102	277	243	316	276	207	168	199	191	229	220
6	124	103	301	118	301	282	211	172	210	192	233	216
7	260	115	131	117	419	286	211	179	228	197	243	209
8	153	103	269	122	409	338	223	198	225	197	243	219
9	138	103	278	188	395	292	301	217	223	195	237	220
10	154	122	270	172	459	274	531	205	233	192	239	222
11	160	107	272	241	572	243	233	197	237	190	246	213
12	123	109	331	259	432	277	235	194	246	192	260	208
13	142	113	347	272	339	292	240	191	229	191	269	240
14	146	122	344	243	436	249	247	189	283	199	278	239
15	145	126	328	274	250	146	229	188	207	197	289	224
16	252	131	406	305	---	---	262	193	219	197	266	213
17	249	138	361	291	---	---	363	195	212	201	232	222
18	402	177	430	341	---	---	409	200	207	200	234	219
19	249	148	415	350	---	---	394	200	237	202	242	214
20	196	146	392	262	272	151	412	200	251	204	274	222
21	351	149	376	303	352	155	319	194	253	205	266	233
22	342	173	410	339	171	154	353	193	250	220	255	228
23	232	204	402	348	184	154	330	190	243	215	253	218
24	335	216	391	285	201	156	273	192	245	200	260	235
25	364	268	449	277	220	175	268	202	217	195	276	237
26	352	264	452	256	217	175	254	203	208	195	275	250
27	340	212	429	301	214	160	262	198	213	205	285	240
28	364	259	406	294	166	159	203	197	232	193	299	264
29	341	202	340	224	168	162	227	196	225	211	299	243
30	314	183	372	230	170	163	207	198	---	---	313	234
31	229	197	---	---	170	163	206	194	---	---	345	247
MONTH	402	102	452	117	---	---	531	163	283	189	345	199

023000095 MANATEE RIVER AT RYE, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (NEAR SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	368	251	348	299	543	305	367	314	216	199	95	88
2	296	250	463	294	679	304	392	306	207	187	97	87
3	328	273	527	270	996	301	343	324	---	---	95	89
4	307	282	351	261	1,340	294	370	315	196	179	95	88
5	317	255	506	256	1,490	290	342	309	182	165	156	93
6	334	255	688	253	1,390	320	341	318	180	167	98	91
7	374	275	832	269	1,370	318	---	---	175	137	106	96
8	578	293	1,100	299	1,110	319	---	---	164	157	109	91
9	607	278	1,220	296	450	294	334	297	165	115	91	80
10	481	268	1,230	305	338	303	330	290	186	133	88	83
11	778	283	882	290	326	291	332	280	161	151	92	86
12	362	279	1,040	305	299	247	314	269	153	142	98	86
13	337	269	733	303	306	275	335	265	146	139	99	86
14	316	234	643	308	343	306	352	263	142	128	92	86
15	271	227	756	305	329	226	362	264	128	114	116	89
16	274	224	582	312	327	258	375	265	115	97	165	114
17	269	229	703	319	330	304	430	267	103	84	219	147
18	269	239	999	320	388	300	488	257	91	83	221	156
19	306	240	1,620	322	421	289	334	241	86	82	211	161
20	270	239	2,300	296	425	280	330	318	85	80	203	162
21	301	254	324	301	447	276	322	294	88	80	225	161
22	311	263	330	303	413	267	300	276	97	80	235	195
23	332	277	312	301	357	249	293	264	83	80	270	207
24	346	272	324	304	293	247	302	266	83	80	263	223
25	416	291	319	304	302	247	295	256	93	79	258	95
26	368	278	322	304	293	245	279	224	92	86	110	94
27	337	293	331	304	335	240	268	256	102	85	99	95
28	333	272	341	307	337	329	268	240	111	86	119	98
29	293	265	355	313	339	311	247	221	117	88	124	112
30	344	278	407	307	340	329	227	208	102	89	127	113
31	---	---	438	307	---	---	216	208	128	87	---	---
MONTH	778	224	2,300	253	1,490	226	---	---	---	---	270	80

## 023000095 MANATEE RIVER AT RYE, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	120	107	354	214	351	277	171	166	218	190	223	215				
2	125	106	340	257	326	212	177	167	230	198	222	215				
3	131	121	306	216	301	234	185	167	238	196	229	210				
4	287	106	307	232	310	263	204	171	241	192	225	219				
5	109	106	277	243	312	268	208	173	199	192	225	223				
6	121	104	302	114	304	277	211	175	210	194	228	221				
7	236	111	127	113	420	281	211	183	226	198	227	213				
8	147	104	268	119	409	336	224	201	223	197	229	218				
9	129	105	276	185	395	311	306	218	220	196	227	222				
10	148	117	265	174	439	272	537	207	232	193	229	226				
11	153	103	272	235	572	250	233	201	234	191	229	223				
12	117	104	329	256	426	277	235	196	245	193	231	221				
13	134	111	345	270	338	290	238	192	226	194	242	231				
14	140	117	343	243	416	243	244	191	280	200	251	242				
15	138	122	325	273	243	135	229	190	206	200	252	239				
16	235	124	405	302	---	---	257	195	217	198	252	218				
17	249	133	359	297	---	---	359	196	212	201	230	221				
18	413	175	429	338	---	---	406	201	206	201	231	224				
19	248	149	413	348	---	151	400	202	219	201	232	218				
20	202	147	389	255	271	154	410	201	248	202	245	223				
21	364	150	372	299	351	157	320	200	250	204	245	233				
22	340	174	408	338	172	156	353	195	246	221	241	231				
23	232	204	395	354	181	156	322	192	242	215	234	226				
24	329	217	389	280	199	157	270	193	246	202	257	234				
25	371	282	446	273	220	177	264	202	271	200	275	241				
26	352	290	447	253	217	180	251	205	240	208	274	252				
27	343	220	420	297	212	162	260	200	215	211	284	241				
28	361	265	396	295	166	163	204	198	221	202	293	264				
29	341	205	334	214	168	165	225	197	219	210	292	244				
30	315	185	367	228	170	166	206	199	---	---	304	233				
31	230	199	---	---	170	166	205	193	---	---	344	248				
MONTH	413	103	447	113	---	---	537	166	280	190	344	210				
DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	365	249	348	304	544	310	367	321	211	201	79	73				
2	297	249	462	298	687	309	390	311	204	184	79	72				
3	327	281	530	276	1,010	309	349	332	205	179	78	74				
4	309	284	350	265	1,380	300	372	322	200	185	80	75				
5	321	257	512	262	1,550	296	341	315	186	169	112	79				
6	349	257	686	260	1,440	325	349	325	182	172	88	75				
7	381	281	823	276	1,390	325	---	---	177	140	84	78				
8	581	296	1,140	303	1,140	327	---	---	168	161	---	---				
9	601	280	1,270	298	423	298	337	305	166	118	---	---				
10	480	275	1,280	310	338	307	334	297	183	138	---	---				
11	783	285	962	296	326	285	335	290	161	152	---	---				
12	367	280	1,040	312	297	227	318	276	154	144	---	---				
13	329	270	745	307	308	277	343	271	147	142	---	---				
14	316	235	655	315	366	295	355	269	144	131	---	---				
15	271	227	763	311	307	240	373	270	131	117	---	---				
16	273	226	591	317	349	262	389	272	119	80	---	---				
17	272	231	706	324	348	307	445	273	86	70	---	---				
18	269	240	986	329	376	307	507	265	76	68	---	---				
19	307	242	1,600	329	392	294	339	245	71	68	---	---				
20	270	240	2,380	303	385	287	333	320	71	67	---	---				
21	310	258	320	311	392	283	321	285	72	67	228	170				
22	314	267	331	311	362	280	295	269	79	67	235	198				
23	320	283	317	311	354	257	292	265	68	66	271	211				
24	330	275	329	312	294	255	299	265	69	67	266	227				
25	391	295	324	312	297	255	296	257	77	67	269	95				
26	354	282	322	314	288	254	283	227	77	72	107	92				
27	324	292	334	314	338	246	266	251	86	72	100	96				
28	318	273	347	315	345	333	253	212	94	72	120	99				
29	312	269	357	319	344	316	249	218	98	75	124	114				
30	347	282	407	312	343	336	222	207	89	75	128	116				
31	---	---	438	313	---	---	213	205	101	74	---	---				
MONTH	783	226	2,380	260	1,550	227	---	---	211	66	---	---				



## 023000095 MANATEE RIVER AT RYE, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	26.5	25.7	24.8	23.2	18.3	16.4	19.7	18.4	16.7	15.5	19.6	18.5
2	26.2	25.5	24.6	23.5	18.2	16.4	19.3	18.5	18.0	16.6	20.9	19.4
3	26.5	24.0	24.3	23.7	18.4	16.7	19.8	18.9	18.6	16.9	22.2	20.1
4	26.7	25.0	24.7	23.6	18.6	17.3	20.7	19.5	19.8	17.2	21.9	19.4
5	26.6	25.2	25.8	24.2	19.7	18.1	20.9	19.8	20.0	17.4	22.0	20.2
6	27.2	25.6	25.8	24.6	18.7	17.4	21.1	19.6	21.1	19.3	23.6	20.7
7	27.4	25.4	25.9	25.0	17.4	14.1	20.4	18.2	21.4	19.8	24.5	22.4
8	27.2	25.3	25.8	24.8	15.7	13.2	18.3	16.2	19.8	17.1	23.3	19.9
9	27.3	25.9	25.7	25.0	16.5	14.1	18.6	16.1	18.7	16.3	20.5	18.3
10	27.1	25.8	25.0	23.8	18.2	15.8	19.1	16.1	19.4	17.3	20.0	18.0
11	27.0	25.7	24.9	23.2	18.5	16.6	16.4	14.2	20.3	18.6	20.5	18.0
12	26.9	25.9	24.7	23.0	17.2	15.6	15.8	13.8	21.4	19.6	19.8	18.0
13	27.4	26.3	24.7	22.9	17.2	15.7	15.8	13.9	21.9	21.1	20.6	18.5
14	27.9	26.5	23.6	21.3	19.6	16.5	15.4	13.9	21.4	20.5	20.8	19.1
15	27.7	26.0	22.8	20.7	18.7	16.6	15.4	14.0	21.1	20.3	21.4	20.5
16	26.5	23.0	22.4	20.1	---	---	15.8	14.6	20.3	18.5	22.0	21.0
17	26.0	24.1	23.4	21.2	---	---	15.6	14.4	19.7	18.3	22.7	20.7
18	25.7	22.7	23.4	21.9	---	---	16.1	15.1	18.9	16.5	22.6	20.3
19	26.0	24.1	23.0	22.6	---	---	17.3	15.9	18.5	15.0	24.3	20.7
20	25.6	24.6	22.6	21.2	16.2	14.1	18.0	16.4	18.1	15.1	22.9	20.8
21	25.0	23.6	21.4	19.4	15.7	12.4	16.9	14.7	19.2	17.5	23.3	21.1
22	25.4	22.8	20.4	19.0	16.3	15.0	17.0	14.4	20.4	18.0	23.2	21.6
23	25.3	23.9	20.7	19.6	17.5	15.3	16.4	14.1	20.5	18.8	23.0	19.9
24	24.7	22.4	21.4	19.7	17.1	15.4	16.1	13.6	21.7	20.0	21.7	19.9
25	24.2	22.5	22.3	20.7	17.1	15.6	15.9	13.9	21.6	19.5	21.6	20.0
26	25.2	23.6	23.0	21.0	16.9	15.4	17.6	15.3	19.9	19.4	22.0	20.4
27	26.0	24.2	22.7	21.1	17.1	15.2	19.5	17.1	19.5	17.9	22.7	20.9
28	26.4	24.7	23.2	21.0	17.8	15.8	18.8	17.1	19.1	16.3	22.9	21.4
29	26.2	23.8	21.8	18.7	18.2	16.4	17.1	14.7	19.1	17.7	23.1	21.4
30	25.5	23.4	18.8	16.1	18.5	16.8	16.2	15.3	---	---	23.2	21.1
31	25.6	23.7	---	---	19.6	17.6	15.9	15.6	---	---	23.7	21.7
MONTH	27.9	22.4	25.9	16.1	---	---	21.1	13.6	21.9	15.0	24.5	18.0
1	23.3	22.0	27.5	25.5	31.5	29.1	32.1	29.5	29.1	28.1	31.1	28.7
2	22.4	20.2	28.0	26.2	31.5	29.1	30.8	29.4	28.7	27.9	30.9	29.0
3	22.1	19.9	27.5	25.8	31.4	29.4	30.2	29.2	28.5	28.1	30.4	29.2
4	22.0	19.9	26.7	24.0	30.0	28.0	30.3	29.2	28.4	27.9	29.8	28.4
5	22.0	19.8	26.5	24.1	29.5	27.0	30.8	29.5	28.2	27.6	28.4	26.6
6	22.1	19.4	26.3	24.4	29.0	27.6	30.8	29.0	28.6	28.1	26.6	26.2
7	22.4	20.2	26.3	24.7	28.6	27.0	---	---	29.2	27.1	26.4	26.0
8	23.3	21.6	26.5	24.7	28.9	27.3	---	---	29.1	28.6	27.1	26.3
9	24.3	22.8	26.3	25.0	29.6	27.9	32.1	28.9	29.1	27.5	26.9	26.6
10	24.9	23.3	26.2	25.0	29.3	27.9	32.5	29.8	29.4	26.9	28.1	26.5
11	24.8	23.2	26.4	24.9	29.1	27.4	32.4	30.3	29.8	28.1	28.7	27.2
12	24.2	21.5	27.7	25.6	29.1	26.3	31.5	29.7	29.8	28.7	28.5	27.3
13	22.6	21.2	28.0	25.9	29.5	27.5	32.1	29.8	29.0	27.6	28.7	27.5
14	21.9	20.5	27.7	25.6	30.0	28.3	31.9	30.0	28.0	27.8	28.3	27.6
15	22.2	19.2	27.6	25.6	29.1	26.0	31.6	29.3	28.3	26.8	27.8	27.1
16	22.1	19.2	27.2	25.6	30.9	27.4	30.8	28.8	27.5	26.2	28.3	26.9
17	22.7	20.2	27.7	25.3	31.0	29.0	29.7	27.8	29.1	26.9	29.1	27.0
18	23.3	20.8	28.1	25.8	31.3	29.5	29.2	27.8	28.7	26.9	29.4	27.6
19	23.6	21.6	27.9	26.4	31.6	29.6	28.8	26.6	28.5	27.4	29.8	27.2
20	24.7	21.6	28.3	26.6	31.4	29.9	28.7	28.1	29.3	27.5	28.8	26.9
21	23.9	22.6	29.0	26.8	31.3	29.7	29.0	27.6	28.6	27.3	27.3	25.9
22	24.5	22.0	29.1	27.2	31.5	29.9	28.6	27.1	29.1	27.6	26.4	25.9
23	25.2	23.4	29.0	27.3	31.4	29.9	29.5	28.0	28.9	28.1	27.1	25.8
24	25.7	23.9	29.0	27.0	31.0	29.4	29.5	27.3	28.8	27.8	27.4	26.0
25	26.4	24.4	29.2	27.1	31.8	29.3	30.3	28.2	30.0	28.0	27.4	25.9
26	26.7	25.7	28.4	26.6	32.0	29.9	30.2	27.7	29.6	28.4	26.9	25.6
27	26.6	24.5	29.9	27.1	31.5	29.1	29.2	28.5	29.5	27.9	26.0	25.5
28	25.9	22.6	30.3	27.7	30.6	29.8	29.3	28.2	30.1	28.0	26.2	25.8
29	25.1	24.0	30.4	27.7	30.9	29.0	29.6	28.2	29.6	27.7	27.3	25.8
30	27.0	24.1	30.7	28.2	31.4	29.5	30.2	28.8	29.9	27.6	27.8	25.8
31	---	---	31.3	28.7	---	---	30.2	28.7	30.5	27.8	---	---
MONTH	27.0	19.2	31.3	24.0	32.0	26.0	---	---	30.5	26.2	31.1	25.5

## 023000095 MANATEE RIVER AT RYE, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	26.5	25.7	24.8	23.0	18.2	16.4	19.4	18.3	16.6	15.4	19.3	18.4
2	26.2	25.5	24.6	23.5	18.0	16.4	19.1	18.4	17.8	16.5	20.5	19.2
3	26.5	24.0	24.3	23.7	18.4	16.7	19.5	18.8	18.0	16.8	22.1	20.0
4	26.7	24.9	24.7	23.6	18.2	17.3	20.5	19.4	19.7	17.1	21.8	19.3
5	26.6	25.2	25.7	24.2	19.7	18.1	20.8	19.7	19.9	17.3	21.9	20.1
6	27.2	25.5	25.8	24.6	18.7	17.3	20.8	19.5	20.9	19.2	23.5	20.6
7	27.4	25.4	25.9	25.0	17.4	14.1	20.3	18.1	21.3	19.7	24.4	22.3
8	27.2	25.3	25.8	24.8	15.7	13.2	18.2	16.0	19.7	17.0	23.2	19.9
9	27.3	25.9	25.6	25.0	16.3	14.1	18.4	16.0	18.2	16.1	20.4	18.1
10	27.1	25.8	25.0	23.7	18.0	15.8	19.0	16.0	19.3	17.1	19.9	17.9
11	26.9	25.7	24.9	23.2	18.5	16.6	16.3	14.0	20.2	18.5	19.8	17.7
12	26.9	25.9	24.7	23.0	16.9	15.6	15.2	13.7	21.3	19.5	19.6	17.8
13	27.3	26.3	24.7	22.9	16.9	15.7	15.3	13.7	21.8	21.0	20.3	18.4
14	27.6	26.5	23.6	21.3	19.6	16.5	15.1	13.8	21.3	20.4	20.5	19.0
15	27.5	25.9	22.7	20.7	18.7	16.5	15.0	13.9	21.0	20.2	21.3	20.4
16	26.5	22.9	22.3	20.0	---	---	15.6	14.5	20.2	18.4	21.9	20.9
17	26.0	24.0	23.3	21.2	---	---	15.5	14.3	19.6	18.2	22.6	20.6
18	25.7	22.6	23.4	21.9	---	---	16.0	15.0	18.6	16.4	22.1	20.1
19	25.9	24.0	23.0	22.5	---	---	17.1	15.7	17.2	14.9	24.2	20.7
20	25.6	24.5	22.6	21.2	16.1	14.0	17.0	16.3	18.0	15.0	22.8	20.6
21	25.0	23.6	21.4	19.3	15.6	12.3	16.5	14.6	19.1	17.4	23.2	21.0
22	25.3	22.8	20.4	19.0	16.0	14.9	16.5	14.3	20.3	17.9	23.1	21.5
23	25.3	23.8	20.7	19.6	17.4	15.2	15.6	14.0	20.4	18.7	22.4	19.3
24	24.7	22.4	21.4	19.7	16.4	15.3	14.9	13.5	21.6	19.9	21.5	19.3
25	24.1	22.5	22.2	20.7	16.7	15.5	15.6	13.8	21.5	19.4	21.5	19.9
26	25.0	23.6	22.7	21.0	16.3	15.3	17.5	15.2	19.8	19.3	21.9	20.3
27	25.7	24.2	22.6	21.0	17.0	15.1	19.0	17.0	19.4	17.8	22.2	20.8
28	26.2	24.6	23.0	21.0	17.2	15.7	18.7	17.0	19.0	16.1	22.6	21.2
29	26.0	23.8	21.8	18.6	17.9	16.3	17.0	14.6	19.0	17.6	22.8	21.2
30	25.3	23.3	18.6	15.8	18.2	16.7	16.1	15.2	---	---	22.9	20.9
31	25.5	23.7	---	---	18.9	17.5	15.8	15.5	---	---	23.5	21.7
MONTH	27.6	22.4	25.9	15.8	---	---	20.8	13.5	21.8	14.9	24.4	17.7
1	23.2	21.8	27.4	25.4	31.3	29.0	32.0	29.4	29.0	28.0	30.9	28.6
2	22.3	20.0	27.9	26.1	31.4	29.0	30.7	29.3	28.6	27.8	30.8	28.9
3	22.0	19.8	27.4	25.7	31.3	29.3	30.0	29.0	28.4	28.0	30.3	29.1
4	21.8	19.8	26.6	23.8	29.9	27.9	30.2	29.1	28.3	27.8	29.7	28.3
5	21.8	19.7	26.4	23.8	29.4	26.9	30.7	29.3	28.1	27.5	28.3	26.5
6	22.0	19.3	26.2	24.1	28.8	27.5	30.6	28.7	28.5	28.0	26.5	26.1
7	22.2	20.1	26.2	24.5	28.4	26.9	---	---	29.1	27.0	26.3	25.9
8	23.2	21.4	26.3	24.5	28.7	27.2	---	---	29.0	28.5	27.0	26.2
9	24.2	22.7	26.2	24.9	29.3	27.8	31.6	28.8	29.0	27.4	26.8	26.5
10	24.8	23.2	26.1	24.8	29.0	27.7	32.3	29.7	29.3	26.8	28.0	26.4
11	24.6	23.1	26.0	24.7	28.7	27.3	32.2	30.1	29.7	28.0	28.6	27.1
12	24.1	21.4	27.0	25.5	28.9	26.1	31.3	29.6	29.7	28.6	28.4	27.2
13	22.4	21.1	27.9	25.8	29.4	27.4	31.9	29.7	28.9	27.5	28.6	27.4
14	21.8	20.4	27.6	25.5	29.5	27.1	31.8	29.9	27.9	27.7	28.2	27.5
15	21.0	19.0	27.5	25.5	28.0	25.8	31.5	29.2	28.2	26.7	27.7	27.0
16	22.0	19.0	27.1	25.4	30.7	27.3	30.7	28.8	27.4	26.1	28.2	26.7
17	22.6	20.1	27.6	25.1	30.9	28.8	29.6	27.7	29.0	26.8	28.9	26.9
18	23.2	20.6	28.0	25.6	31.2	29.4	29.0	27.7	28.6	26.7	28.8	27.5
19	23.5	21.4	27.8	26.2	31.5	29.5	28.7	26.5	28.3	27.2	29.3	27.1
20	24.5	21.3	28.2	26.5	31.3	29.7	28.6	28.0	29.1	27.4	28.7	26.8
21	23.8	22.4	28.9	26.6	31.2	29.7	28.9	27.5	28.5	27.2	27.2	25.8
22	24.4	21.8	29.0	27.1	31.4	29.8	28.4	27.0	29.0	27.5	26.3	25.7
23	25.1	23.2	28.9	27.1	31.2	29.8	29.4	27.9	28.8	28.0	27.0	25.7
24	25.6	23.8	28.9	26.9	30.6	29.2	29.4	27.2	28.7	27.7	27.2	25.9
25	26.3	24.3	29.0	27.0	31.5	29.2	30.1	28.1	29.8	27.9	27.3	25.7
26	26.5	25.6	28.1	26.5	31.8	29.8	30.1	27.5	29.5	28.3	26.7	25.5
27	26.5	24.4	28.8	27.3	31.4	29.0	29.1	28.4	29.3	27.8	25.9	25.3
28	25.0	22.2	29.7	27.6	30.5	29.7	29.1	28.1	30.0	27.9	26.1	25.6
29	24.9	23.9	30.3	27.6	30.8	28.8	29.5	28.1	29.5	27.6	27.2	25.7
30	26.8	24.0	30.6	28.1	31.3	29.4	30.1	28.6	29.8	27.5	27.7	25.7
31	---	---	31.1	28.6	---	---	30.1	28.6	30.4	27.6	---	---
MONTH	26.8	19.0	31.1	23.8	31.8	25.8	---	---	30.4	26.1	30.9	25.3

02300018 GAMBLE CREEK NEAR PARRISH, FL.

LOCATION.--Lat 27° 33'11", long 82° 23'23" (1927 North American datum), in NE 1/4 sec.3, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on downstream side of bridge on Golf Course Road, 0.2 mi downstream from Frye Canal, 3.0 mi southeast of Parrish, and 5.7 mi above mouth.

DRAINAGE AREA.--50.6 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1962 to September 1993 (gage height and discharge measurements only); October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 7.52 ft below National Geodetic Vertical Datum of 1929 (Manatee County bench mark).

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	609	16	13	14	59	70	e8.6	26	2.2	18	e166	85
2	326	13	13	14	54	56	e8.4	12	2.2	14	e147	59
3	133	13	13	13	40	e49	e8.5	9.1	2.5	13	e287	36
4	84	12	13	13	32	43	e11	12	1.8	14	417	28
5	69	13	13	13	26	41	e13	11	6.8	12	482	84
6	56	75	13	13	21	38	e11	8.6	11	13	458	997
7	47	81	13	13	19	35	e9.6	6.5	25	12	452	1,600
8	44	48	14	13	17	31	e8.5	5.6	21	e20	486	1,540
9	41	31	14	13	17	27	7.6	5.1	29	e16	473	1,300
10	36	22	14	13	16	24	7.4	4.9	94	e12	362	1,180
11	32	20	14	13	15	22	6.7	4.9	134	e9.0	227	1,090
12	27	18	13	13	15	20	40	4.2	234	7.6	143	788
13	23	17	13	13	14	18	100	4.4	150	7.0	123	424
14	20	16	80	13	28	18	70	4.3	189	6.0	321	166
15	19	16	116	13	75	17	29	4.3	305	5.1	571	94
16	16	15	88	13	68	17	18	4.1	345	5.5	661	69
17	14	15	51	12	43	17	14	3.8	246	6.4	e255	54
18	13	15	39	35	31	16	13	3.5	109	8.3	e189	43
19	14	24	34	40	24	15	12	3.9	56	53	149	35
20	13	17	29	32	20	15	11	4.2	32	188	97	31
21	12	14	25	21	18	14	11	3.7	21	315	84	30
22	12	13	23	16	16	13	9.4	2.5	16	338	e92	28
23	12	13	22	13	15	12	9.2	e2.6	13	208	e65	24
24	12	13	20	13	15	11	8.9	e2.6	12	99	e57	21
25	11	13	19	13	212	10	8.5	e2.6	13	55	e48	17
26	11	13	17	12	313	10	8.4	2.6	11	218	35	235
27	12	13	16	13	361	9.9	6.7	2.7	15	377	35	516
28	12	13	16	13	253	9.3	6.3	2.5	37	331	44	649
29	17	13	16	13	113	9.0	6.7	2.4	44	e248	48	551
30	18	13	15	14	---	8.9	11	2.5	24	e285	35	307
31	18	---	14	21	---	8.6	---	2.6	---	e225	31	---
TOTAL	1,783	628	813	491	1,950	704.7	493.4	171.7	2,201.5	3,138.9	7,040	12,081
MEAN	57.5	20.9	26.2	15.8	67.2	22.7	16.4	5.54	73.4	101	227	403
MAX	609	81	116	40	361	70	100	26	345	377	661	1,600
MIN	11	12	13	12	14	8.6	6.3	2.4	1.8	5.1	31	17
CFSM	1.14	0.41	0.52	0.31	1.33	0.45	0.33	0.11	1.45	2.00	4.49	7.96
IN.	1.31	0.46	0.60	0.36	1.43	0.52	0.36	0.13	1.62	2.31	5.18	8.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	28.2	22.2	60.1	55.7	39.2	33.3	35.0	10.5	153	143	253	368
MAX	57.5	47.3	200	182	67.2	45.2	56.3	17.3	467	254	533	625
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2001)	(2003)	(2003)	(2003)	(2001)	(2003)	(2001)
MIN	15.5	10.0	5.46	7.07	17.7	22.7	16.1	5.54	23.9	82.1	117	149
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2004)	(2002)	(2004)	(2001)	(2002)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	56,666.5	31,496.2	
ANNUAL MEAN	155	86.1	100
HIGHEST ANNUAL MEAN			169
LOWEST ANNUAL MEAN			45.5
HIGHEST DAILY MEAN	3,700	Jun 22	1,600
LOWEST DAILY MEAN	7.5	Jun 2	1.8
ANNUAL SEVEN-DAY MINIMUM	7.7	May 31	2.3
MAXIMUM PEAK FLOW			1,680
MAXIMUM PEAK STAGE			14.61
ANNUAL RUNOFF (CFSM)	3.07		1.70
ANNUAL RUNOFF (INCHES)	41.66		23.16
10 PERCENT EXCEEDS	414		250
50 PERCENT EXCEEDS	28		17
90 PERCENT EXCEEDS	13		6.7

e Estimated

## 02300021 MANATEE RIVER AT FORT HAMER, FL.

LOCATION.--Lat 27° 31'05", long 82° 25'42" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.17, T.34 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on left bank, on private dock on Upper Manatee River Road, 0.5 mi south of Fort Hamer, and 15 mi upstream from mouth.

DRAINAGE AREA.--216 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--March 1997 to September 1998 (gage heights only); January 2001 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 24, 2001, at datum 7.25 ft lower.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 5.84 ft, Sept. 14, 2001; minimum, 1.72 ft below NGVD, Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 2.77 ft, Sept. 26; minimum, 0.66 ft below NGVD, Mar. 23.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.44	0.49	1.29	0.22	0.85	0.28	0.87	0.09	0.83	-0.13	0.98	-0.01
2	1.41	0.40	1.22	0.36	0.78	0.13	0.96	-0.02	0.66	-0.23	0.63	-0.11
3	1.47	0.43	1.11	0.40	0.78	0.29	1.07	-0.05	0.56	-0.24	0.94	-0.21
4	1.52	0.46	1.48	0.68	1.35	0.38	1.21	-0.02	0.93	-0.25	0.67	-0.11
5	1.37	0.42	1.39	0.68	1.20	0.39	---	0.00	0.99	-0.16	1.02	-0.07
6	1.45	0.52	1.40	0.59	0.96	0.19	1.20	-0.06	1.05	-0.09	1.07	-0.02
7	1.59	0.72	1.41	0.52	0.74	-0.01	1.01	-0.37	1.25	0.09	0.89	-0.14
8	1.46	0.63	1.50	0.42	1.20	0.10	0.82	-0.23	0.75	-0.36	0.86	-0.19
9	1.46	0.59	1.46	0.33	1.23	0.08	1.21	0.04	0.70	-0.16	0.77	-0.18
10	1.45	0.54	1.16	0.14	1.39	0.25	1.52	0.01	0.87	0.04	0.81	-0.05
11	1.48	0.51	1.42	0.27	1.58	0.26	0.77	-0.31	0.95	0.10	0.72	-0.38
12	1.56	0.56	1.55	0.40	1.28	0.10	0.74	-0.09	1.03	0.06	0.88	-0.33
13	1.48	0.50	1.66	0.52	1.12	0.17	0.82	0.02	0.97	0.04	0.71	-0.30
14	1.52	0.63	1.33	0.22	1.37	0.51	0.91	0.09	1.31	-0.04	0.79	-0.47
15	1.60	0.44	1.44	0.49	0.83	0.01	0.87	0.23	1.18	0.08	0.85	-0.43
16	1.25	0.32	1.47	0.51	1.02	0.23	0.99	0.01	0.95	-0.18	0.89	-0.32
17	1.41	0.47	1.22	0.42	1.33	0.50	1.21	-0.08	1.04	-0.18	0.47	-0.26
18	1.41	0.43	1.48	0.72	1.11	0.11	1.33	0.08	---	-0.27	0.66	-0.44
19	1.11	0.45	1.69	0.92	1.03	0.18	0.82	-0.07	0.76	-0.22	0.72	-0.37
20	1.26	0.33	1.34	0.45	0.96	0.00	1.23	-0.23	1.20	0.05	0.55	-0.35
21	1.36	0.53	1.43	0.46	1.09	-0.20	1.00	-0.28	1.35	0.17	0.58	-0.32
22	1.40	0.55	1.16	0.30	---	-0.19	1.08	-0.22	1.27	0.21	0.59	-0.54
23	1.44	0.62	1.53	0.30	1.28	-0.05	1.02	-0.21	1.02	0.18	0.11	-0.66
24	1.39	0.48	1.66	0.31	1.50	0.04	0.90	-0.18	1.26	0.61	0.09	-0.50
25	1.37	0.32	1.75	0.29	1.34	-0.05	0.91	-0.05	1.41	0.34	0.43	-0.64
26	1.44	0.28	1.68	0.22	1.11	-0.14	0.86	0.05	1.20	0.60	0.43	-0.59
27	1.60	0.36	1.63	0.32	0.98	-0.09	0.90	0.31	0.74	0.35	0.49	-0.53
28	1.83	0.51	1.58	0.32	0.98	0.06	0.48	-0.17	0.89	-0.23	0.68	-0.46
29	1.84	0.28	1.15	-0.11	0.95	0.19	0.75	-0.25	0.83	-0.19	0.57	-0.45
30	1.44	0.16	0.91	0.12	0.99	0.40	0.56	-0.04	---	---	0.49	-0.55
31	1.09	0.11	---	---	0.89	0.35	0.66	-0.24	---	---	0.86	-0.32
MAX	1.84	0.72	1.75	0.92	---	0.51	---	0.31	---	0.61	1.07	-0.01
MIN	1.09	0.11	0.91	-0.11	---	-0.20	---	-0.37	---	-0.36	0.09	-0.66

## 02300021 MANATEE RIVER AT FORT HAMER, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	0.57	-0.23	0.99	0.14	1.82	0.60	1.74	0.38	1.96	0.63	1.48	0.62
2	0.41	-0.36	1.19	0.36	1.85	0.52	1.80	0.38	1.78	0.65	1.33	0.50
3	0.83	-0.23	1.27	0.21	1.91	0.42	1.85	---	1.89	0.95	1.40	0.51
4	0.66	-0.15	1.03	0.00	1.92	---	1.80	0.38	1.75	1.05	1.32	0.47
5	0.70	-0.22	1.19	0.00	1.99	0.44	1.73	0.44	1.84	1.04	1.78	1.06
6	0.76	-0.24	1.34	0.43	1.84	0.52	1.55	0.50	2.14	1.50	2.30	---
7	0.90	-0.21	1.43	0.02	1.81	0.50	1.38	0.46	2.07	1.34	1.74	1.13
8	1.12	0.26	1.50	0.06	1.65	0.54	1.31	0.60	2.02	1.36	1.47	0.84
9	1.08	-0.16	1.51	0.14	1.49	0.57	1.25	0.69	1.89	1.15	1.43	0.89
10	0.95	-0.21	1.36	0.16	1.39	0.70	1.31	0.54	1.83	1.12	1.34	0.82
11	1.17	-0.29	1.24	0.22	1.42	0.85	1.39	0.57	1.95	1.03	1.34	0.52
12	1.05	-0.02	1.28	0.29	1.47	0.74	1.36	0.44	2.13	1.08	1.30	0.45
13	1.07	-0.07	1.13	0.40	1.51	0.61	1.51	0.52	2.07	1.13	1.24	0.46
14	0.61	-0.23	1.02	0.41	1.61	0.61	1.60	0.51	2.20	1.30	1.28	0.47
15	0.55	-0.41	1.19	0.50	1.65	0.58	1.70	0.47	2.14	1.31	1.84	0.82
16	0.38	-0.30	1.13	0.34	1.61	0.47	1.68	0.47	2.02	1.04	1.47	0.58
17	0.50	-0.21	1.27	0.34	1.64	0.38	1.79	0.51	1.93	1.04	1.33	0.39
18	0.59	-0.24	1.37	0.32	1.67	0.44	1.90	0.64	1.93	0.93	1.25	0.18
19	0.79	-0.18	1.54	0.48	1.72	0.47	1.80	---	1.80	0.98	1.28	0.05
20	0.84	-0.10	1.60	0.45	1.72	0.96	1.59	0.75	1.70	0.98	1.11	0.05
21	1.07	-0.02	1.57	0.44	1.73	0.48	1.48	0.79	1.74	0.89	1.01	-0.21
22	1.04	0.32	1.74	---	1.61	0.55	1.36	0.58	1.77	0.84	1.13	0.03
23	0.95	-0.11	1.71	0.52	1.50	0.48	1.38	0.58	1.78	0.81	1.18	0.06
24	0.98	-0.18	1.62	0.51	1.32	0.56	1.35	0.64	1.78	0.68	1.16	0.08
25	1.03	-0.14	1.55	0.51	1.36	0.61	1.39	0.54	1.71	0.54	1.27	0.24
26	0.97	-0.01	1.50	0.48	1.33	0.67	1.43	0.56	1.77	0.58	2.77	---
27	0.86	0.07	1.33	0.54	1.41	0.57	1.60	0.52	1.82	0.55	1.42	0.03
28	0.77	-0.13	1.40	0.65	1.43	0.45	1.61	0.64	1.81	0.60	1.12	-0.20
29	0.67	-0.12	1.41	0.70	1.61	0.46	1.67	0.54	1.86	0.65	1.02	0.01
30	0.98	0.00	1.61	0.75	1.66	0.36	1.76	0.51	1.77	0.62	1.04	0.07
31	---	---	1.70	0.64	---	---	1.88	0.53	1.65	0.66	---	---
MAX	1.17	0.32	1.74	---	1.99	---	1.90	---	2.20	1.50	2.77	---
MIN	0.38	-0.41	0.99	---	1.32	---	1.25	---	1.65	0.54	1.01	---

02300021 MANATEE RIVER AT FORT HAMER, FL.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1997 to September 1998; January 2001 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 1.0 ft below the surface and 1.0 ft above the bottom.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 40,600 microsiemens, May 17, 2002; bottom sensor maximum, 42,400 microsiemens, May 30, 2002; top sensor minimum, 78 microsiemens, Sept. 21, 2004; bottom sensor minimum, 43 microsiemens, Sept. 21, 2004.

TEMPERATURE.--Top sensor maximum, 35.0° C, June 18, 1998; bottom sensor maximum, 34.9° C, July 2, 1998; top sensor minimum, 11.1° C, Jan. 5, 2002; bottom sensor minimum, 12.0° C, Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 37,000 microsiemens, June 5; bottom sensor maximum, 36,200 microsiemens, June 5; top sensor minimum, 78 microsiemens, Sept. 21; bottom sensor minimum, 43 microsiemens, Sept. 21.

TEMPERATURE.--Top sensor maximum, 33.6° C, July 11; bottom sensor maximum, 33.4° C, July 10, 11; top sensor minimum, 12.8° C, Dec. 21; bottom sensor minimum, 12.7° C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT BELOW SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	332	262	17,700	6,130	22,100	13,500	17,000	5,930	21,500	7,930	780	340
2	363	293	16,700	7,110	20,600	13,300	19,200	6,570	20,800	3,900	2,250	470
3	494	343	18,900	7,800	25,000	15,200	22,200	7,060	20,200	3,950	3,120	550
4	924	424	19,900	9,540	27,700	16,100	24,800	8,650	20,700	5,340	4,940	500
5	604	395	18,300	9,950	27,700	15,700	25,100	9,710	21,700	3,550	6,340	610
6	1,120	385	18,000	6,010	25,500	14,000	25,200	9,880	21,400	3,930	9,710	1,030
7	3,210	386	15,000	2,550	25,500	10,600	23,000	8,200	24,400	7,700	7,690	1,060
8	2,930	416	14,800	2,990	26,400	11,900	24,200	8,890	16,200	4,410	7,720	940
9	3,240	417	15,200	3,300	26,700	11,900	27,100	12,000	16,900	5,950	8,100	1,070
10	4,120	528	11,600	3,030	29,400	14,800	29,800	13,500	19,200	7,630	8,920	1,410
11	5,710	658	17,500	4,140	31,000	15,700	21,400	9,770	21,000	8,490	9,690	1,230
12	6,520	709	19,500	5,570	28,000	12,800	22,300	11,300	22,300	8,480	13,900	1,540
13	6,550	850	21,200	7,260	26,700	14,100	23,100	13,000	21,400	8,220	11,300	1,890
14	7,870	1,210	17,700	5,590	29,200	13,500	23,900	14,400	26,000	7,970	15,500	1,900
15	9,060	1,080	20,200	7,870	16,400	4,230	23,900	14,900	16,900	2,680	18,500	2,810
16	5,140	921	20,200	8,300	14,700	1,730	25,400	12,300	11,400	1,600	17,300	4,650
17	8,670	1,320	19,000	8,260	15,400	950	28,900	11,000	12,700	1,300	13,300	2,200
18	11,400	1,640	22,200	11,800	5,210	680	28,600	14,600	12,900	1,180	14,700	3,100
19	10,500	1,750	24,400	14,700	4,300	620	26,900	10,500	15,500	1,530	16,700	3,670
20	10,300	2,050	20,700	9,830	7,470	870	27,700	8,120	19,300	3,330	12,300	1,980
21	12,600	3,220	22,200	10,100	9,640	990	25,000	7,390	20,100	3,770	14,900	3,350
22	13,400	3,480	23,500	9,130	14,800	720	26,700	8,830	19,100	4,930	15,800	4,020
23	14,700	4,290	24,600	10,200	16,200	1,650	25,800	9,460	15,800	5,030	9,470	3,620
24	13,900	3,740	26,500	11,400	19,800	1,970	24,300	10,100	20,600	7,020	11,600	3,670
25	14,500	3,460	28,100	12,000	19,200	2,730	24,700	11,000	8,160	280	17,800	3,950
26	16,300	4,000	28,000	11,900	17,000	3,140	23,400	12,600	390	280	18,300	4,890
27	19,500	5,390	28,200	12,800	14,900	3,660	24,100	13,900	390	290	19,500	5,800
28	21,900	7,600	27,700	13,500	14,200	2,940	19,100	8,990	610	390	21,900	6,530
29	22,100	5,990	23,000	9,140	16,000	5,600	23,100	7,970	500	370	21,900	7,830
30	18,600	5,590	22,200	11,100	18,700	7,540	21,100	9,920	---	---	22,300	7,440
31	14,500	4,960	---	---	16,600	7,870	21,000	7,000	---	---	25,000	10,300
MONTH	22,100	262	28,200	2,550	31,000	620	29,800	5,930	26,000	280	25,000	340



## 02300021 MANATEE RIVER AT FORT HAMER, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	571	528	19,000	5,750	22,500	14,800	17,800	6,700	22,000	9,060	950	350
2	608	554	17,800	7,130	20,600	14,100	20,100	7,010	21,300	7,570	2,990	470
3	715	599	20,300	7,940	24,700	15,800	23,000	7,540	20,600	6,090	3,950	560
4	1,040	690	21,300	10,200	27,600	16,400	25,600	8,910	21,000	5,590	5,390	500
5	802	657	19,500	10,300	27,800	16,300	25,700	10,100	22,800	3,780	6,960	650
6	1,410	663	19,600	6,150	25,300	14,400	25,700	10,200	22,600	4,180	10,000	1,050
7	3,500	676	15,900	1,980	25,000	11,500	23,500	8,450	25,000	8,040	8,160	1,180
8	3,250	693	15,900	2,340	26,300	12,600	25,200	9,220	17,100	4,570	8,390	950
9	3,740	709	17,000	2,640	27,200	12,200	27,800	13,200	17,800	6,490	8,320	1,110
10	4,770	805	12,800	2,370	29,500	15,000	30,200	14,000	20,100	8,550	8,940	1,460
11	6,270	952	19,100	3,570	31,000	16,500	22,500	10,800	21,300	9,770	9,970	1,230
12	7,210	1,010	20,400	4,920	28,400	13,900	23,600	12,200	23,000	9,210	14,300	1,580
13	6,980	1,170	22,700	7,030	26,900	14,800	23,800	14,400	22,800	9,030	13,400	2,050
14	8,510	1,560	18,600	4,970	29,400	15,200	25,000	15,400	26,600	8,450	16,300	2,000
15	9,260	1,430	22,600	8,040	19,700	4,480	24,800	17,700	17,800	3,000	19,000	2,930
16	5,500	1,280	22,400	8,270	15,300	1,860	26,200	13,300	12,800	1,670	18,500	4,670
17	9,010	1,390	20,400	8,810	16,000	970	29,500	12,100	12,900	1,350	15,900	2,600
18	12,000	1,730	22,600	13,300	5,220	690	29,100	15,000	13,600	1,210	15,100	3,220
19	10,900	2,060	24,700	15,000	4,190	650	27,800	11,700	15,700	1,610	16,900	3,860
20	11,000	1,960	21,300	10,100	7,860	890	27,800	9,100	19,800	3,480	12,800	2,050
21	12,900	3,120	22,600	10,400	10,400	1,020	25,900	7,890	21,100	4,440	15,500	3,600
22	13,700	3,360	24,000	9,470	12,200	770	27,300	9,750	20,000	5,160	16,300	4,030
23	14,800	4,150	25,400	10,500	16,400	1,730	26,300	9,840	16,400	5,330	11,300	3,730
24	14,600	3,530	26,400	11,600	19,600	2,200	25,000	10,700	21,000	7,140	13,800	3,730
25	14,700	3,310	28,400	12,400	18,700	2,870	25,200	12,100	11,700	280	18,900	4,070
26	16,500	3,780	28,300	12,200	16,500	3,250	23,900	13,900	400	280	19,300	5,070
27	19,700	5,180	28,300	13,200	14,800	3,850	24,900	14,900	400	300	21,600	6,090
28	22,100	7,430	28,100	14,200	14,100	3,160	19,600	10,400	610	400	22,600	7,140
29	22,200	5,980	22,100	9,540	15,900	5,880	23,600	9,380	520	380	22,800	8,230
30	19,300	5,120	22,400	11,800	18,600	10,300	22,900	12,800	---	---	23,000	7,880
31	15,800	4,610	---	---	16,800	9,410	21,900	10,000	---	---	25,500	11,000
MONTH	22,200	528	28,400	1,980	31,000	650	30,200	6,700	26,600	280	25,500	350
DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER						
1	25,800	12,800	25,400	15,400	31,700	15,800	16,600	2,120	1,650	350	464	224
2	24,900	11,100	26,800	16,700	33,100	16,300	19,800	2,480	680	340	365	146
3	26,300	12,500	27,400	15,300	34,200	16,300	20,900	2,690	360	250	257	126
4	23,700	12,800	24,300	12,400	35,000	16,300	21,500	2,910	---	---	257	127
5	24,200	12,600	27,400	12,800	36,200	16,900	21,100	3,850	---	---	574	168
6	25,600	12,900	29,400	13,000	35,800	18,700	17,400	3,280	310	240	229	149
7	27,800	13,600	30,900	13,600	35,100	18,200	12,500	2,940	311	241	170	150
8	30,400	13,800	31,700	14,900	32,400	16,100	12,200	3,070	272	232	191	150
9	30,200	14,700	32,200	16,600	29,800	9,950	12,300	4,530	283	213	155	142
10	28,600	14,200	31,400	17,100	23,600	6,190	13,600	5,080	284	204	153	142
11	30,700	13,100	30,300	17,200	24,800	8,670	15,700	6,020	305	185	164	134
12	27,700	12,800	30,200	18,300	22,000	3,200	15,400	5,380	316	185	205	144
13	23,500	10,700	29,000	20,500	19,100	2,760	19,200	6,560	357	227	236	185
14	17,300	5,730	27,800	20,800	15,400	1,730	20,900	7,130	237	168	237	186
15	15,000	3,160	29,500	22,300	16,600	1,340	22,900	7,550	179	158	2,940	217
16	15,000	3,410	28,900	20,400	7,630	946	22,800	8,240	200	149	1,120	258
17	15,300	5,150	35,400	20,900	7,680	850	24,200	9,250	191	131	1,490	309
18	16,800	6,240	31,400	20,900	13,700	1,010	25,500	10,700	212	131	1,270	350
19	19,800	7,020	33,500	22,900	16,500	1,200	22,000	2,800	232	142	2,600	421
20	20,700	8,140	34,200	21,300	18,000	1,660	2,800	510	223	163	2,600	482
21	24,800	9,770	32,800	11,200	19,700	2,360	620	410	245	154	2,280	43
22	24,600	9,550	33,600	11,200	18,400	3,470	660	450	275	215	5,940	702
23	24,100	9,430	31,000	9,300	17,200	3,880	610	420	296	126	7,240	893
24	25,400	9,060	28,900	5,480	14,900	4,790	700	490	207	126	7,670	1,070
25	25,900	10,200	25,600	6,030	16,100	5,900	940	480	258	118	10,300	615
26	24,900	12,300	23,300	3,560	16,100	7,280	730	470	279	189	20,300	176
27	22,900	13,100	21,200	7,030	18,300	7,220	470	330	370	189	617	158
28	23,300	11,100	22,700	9,930	11,500	1,670	370	300	533	190	219	138
29	24,200	12,500	23,900	12,000	14,800	1,880	340	280	1,730	272	290	189
30	25,500	14,100	27,200	14,900	12,900	1,330	350	270	1,590	232	301	181
31	---	---	29,100	14,800	---	---	720	300	2,370	303	---	---
MONTH	30,700	3,160	35,400	3,560	36,200	850	25,500	270	---	---	20,300	43





## 02300021 MANATEE RIVER AT FORT HAMER, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	26.0	25.2	26.3	24.8	20.2	18.0	21.5	19.5	17.9	16.1	19.2	17.7
2	25.8	24.9	25.9	24.7	19.9	17.9	21.4	19.5	19.0	17.2	21.0	18.5
3	26.4	24.9	25.5	24.5	20.0	17.9	21.7	19.8	19.8	17.3	21.5	19.6
4	27.1	25.9	25.7	24.5	20.2	18.7	22.5	20.6	20.9	17.8	22.6	20.5
5	27.5	26.2	26.6	24.9	20.9	19.9	23.0	21.1	22.1	19.6	23.5	21.4
6	28.1	26.4	26.8	25.4	20.5	18.5	23.1	21.1	23.1	20.7	24.4	22.0
7	28.1	26.3	26.8	24.7	18.5	15.9	22.9	18.8	23.1	20.6	25.2	23.5
8	28.6	26.0	27.5	25.2	17.4	15.7	18.8	16.8	21.7	17.6	24.7	23.0
9	28.3	26.1	26.9	25.4	18.5	16.3	19.0	17.5	19.1	16.6	23.0	21.5
10	27.8	26.4	25.5	23.9	19.6	17.8	18.9	16.2	20.4	18.2	22.0	20.4
11	27.7	26.3	25.8	24.0	19.4	17.8	17.1	14.1	21.6	19.6	21.3	19.8
12	28.1	26.4	26.0	24.1	18.9	16.7	16.7	14.1	23.0	21.1	21.3	19.8
13	29.2	27.0	26.3	24.4	18.6	17.0	17.2	15.0	23.2	22.4	22.3	20.0
14	29.1	27.6	26.2	22.8	19.0	18.1	17.4	15.2	22.7	21.7	21.9	20.1
15	28.7	27.2	24.6	22.4	18.8	16.7	17.7	16.1	21.8	20.6	22.2	20.9
16	28.0	25.9	24.4	22.7	18.5	16.7	18.2	16.3	20.7	19.0	22.7	21.7
17	27.6	25.7	24.5	23.5	18.5	16.7	17.8	15.6	19.9	18.4	23.7	21.2
18	27.6	25.7	24.9	23.6	17.1	15.5	17.9	16.8	18.8	16.6	23.9	21.2
19	27.5	25.9	24.5	23.4	16.5	15.5	18.7	16.8	18.3	15.7	25.2	22.1
20	27.3	26.1	23.4	21.6	15.8	14.4	18.5	16.2	18.3	16.4	24.9	22.8
21	27.3	25.5	22.6	20.4	15.6	12.7	18.0	15.2	19.8	17.7	25.3	22.7
22	27.0	25.4	22.7	20.5	15.6	13.1	17.9	15.7	21.1	18.8	24.7	22.9
23	27.1	25.4	22.7	21.0	17.2	14.6	17.5	15.6	22.2	19.7	23.4	21.1
24	26.7	24.3	23.2	21.4	18.0	16.1	18.0	15.1	23.3	21.4	22.1	20.2
25	26.1	24.2	23.1	22.3	18.0	16.3	18.6	15.9	22.5	19.0	21.8	19.9
26	26.8	24.8	23.9	22.0	18.1	15.9	20.0	17.4	20.8	18.9	22.2	20.3
27	27.6	25.5	24.1	22.4	18.6	16.3	21.2	19.6	19.5	16.8	22.8	20.8
28	27.4	25.9	24.6	22.7	19.1	16.8	20.4	17.2	17.4	15.4	23.2	21.2
29	26.7	25.0	23.9	19.7	19.7	18.2	19.0	16.8	18.1	16.0	23.8	21.7
30	26.5	24.4	20.6	16.9	19.9	18.5	18.0	17.3	---	---	24.2	21.9
31	26.1	23.9	---	---	20.7	19.3	17.5	16.4	---	---	24.7	22.9
MONTH	29.2	23.9	27.5	16.9	20.9	12.7	23.1	14.1	23.3	15.4	25.3	17.7
1	24.0	22.6	28.2	26.2	32.2	30.2	31.7	29.2	29.2	27.6	31.1	28.7
2	23.4	21.3	28.7	26.5	32.1	30.1	30.9	29.1	28.5	27.0	30.8	28.8
3	23.2	21.2	27.9	26.7	31.9	29.9	30.7	28.7	28.0	27.3	30.9	29.3
4	23.0	21.2	27.8	25.1	30.7	29.1	30.6	28.7	---	---	30.1	28.7
5	23.2	21.0	27.3	24.9	30.2	28.7	31.1	28.9	---	---	28.7	25.8
6	23.3	20.9	27.1	24.7	29.6	28.7	32.0	29.3	---	---	26.1	25.5
7	23.6	21.7	27.4	24.9	30.0	28.1	30.6	29.0	29.1	27.7	27.1	26.0
8	24.5	22.6	27.2	25.3	30.2	27.9	30.9	28.8	28.3	27.5	27.8	26.4
9	25.4	23.6	27.2	25.4	30.1	28.5	32.8	30.1	28.8	27.3	27.2	26.5
10	26.4	24.3	26.6	25.4	30.4	28.4	33.4	30.8	30.0	26.7	27.9	26.4
11	26.1	24.6	27.1	25.4	30.9	28.6	33.4	31.2	30.0	27.8	28.7	27.3
12	25.2	22.7	28.1	25.6	30.0	27.8	32.6	30.6	30.2	28.4	29.2	27.3
13	23.7	22.2	28.5	26.0	30.9	27.7	32.9	30.6	29.6	27.5	29.0	27.2
14	22.2	19.7	28.3	26.2	29.9	28.1	32.9	31.1	28.1	26.9	28.2	27.4
15	21.9	18.6	28.8	26.1	29.8	27.6	32.4	30.9	28.5	27.0	27.9	27.0
16	24.2	19.7	28.2	26.5	29.7	26.5	31.7	30.3	28.9	26.7	28.6	27.1
17	24.2	20.9	28.3	26.1	30.1	27.0	30.7	29.0	29.0	26.3	29.8	27.6
18	24.6	21.5	28.6	26.1	30.6	28.4	29.5	28.5	29.9	27.0	31.0	28.6
19	25.1	22.1	28.1	26.2	31.7	28.8	29.1	27.7	30.0	26.8	30.6	28.8
20	25.4	22.6	28.7	26.3	32.0	29.6	27.9	26.8	29.6	27.7	29.9	28.3
21	25.1	23.4	29.0	26.8	31.8	29.9	29.5	26.4	29.3	27.7	28.5	26.8
22	26.2	23.1	28.9	27.3	32.2	30.2	30.6	27.0	29.7	28.1	27.3	26.1
23	27.8	24.1	28.9	27.3	32.6	30.5	29.4	27.4	30.5	28.3	28.0	25.9
24	27.8	24.9	29.0	27.5	31.9	30.6	30.0	28.7	29.8	28.1	28.2	26.5
25	27.2	25.3	29.4	27.5	32.1	30.0	31.1	28.9	29.9	27.7	27.9	26.3
26	27.6	25.9	29.7	27.9	32.1	30.4	30.2	27.3	30.0	28.9	26.5	25.1
27	27.4	25.6	30.1	28.2	31.7	29.3	28.7	27.0	30.9	28.7	26.4	24.9
28	26.3	24.3	30.5	28.8	30.9	28.9	29.0	27.0	30.4	27.9	27.5	25.8
29	26.4	24.7	31.8	29.2	31.7	29.2	29.1	27.7	31.3	28.5	28.1	25.8
30	27.3	24.9	32.2	29.7	31.0	28.5	29.5	27.2	31.3	28.8	28.4	26.0
31	---	---	32.2	30.2	---	---	29.6	27.3	32.0	28.7	---	---
MONTH	27.8	18.6	32.2	24.7	32.6	26.5	33.4	26.4	---	---	31.1	24.9

## 02300029 BRADEN RIVER AT LORRAINE, FL.

LOCATION.--Lat 27° 25'05", long 82° 23'55" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.22, T.35 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on north bank, 100 ft upstream from old wooden bridge on Lorraine Road, 1 mi south of Lorraine, 1 mi south of State Highway 70, and 16.5 mi upstream from mouth.

DRAINAGE AREA.--20.1 mi<sup>2</sup>.

PERIOD OF RECORD.--March 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 30.15 ft, June 22, 2003; minimum, 19.33 ft, July 14, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 29.65 ft, Sept. 6; minimum, 19.33 ft, July 14.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.52	20.77	20.37	20.84	21.98	22.08	20.15	20.10	19.90	21.19	23.20	22.35
2	22.81	20.66	20.37	20.84	22.26	21.69	20.11	20.15	19.90	20.95	23.57	22.32
3	22.29	20.60	20.37	20.77	21.75	21.43	20.09	20.22	19.90	20.71	27.23	21.85
4	21.93	20.61	20.35	20.71	21.42	21.24	20.11	20.43	19.90	21.86	28.92	21.66
5	21.64	20.68	20.33	20.69	21.21	21.11	20.09	20.43	19.90	21.52	27.37	22.54
6	21.40	20.80	20.34	20.60	21.06	20.99	20.07	20.25	19.90	20.32	26.21	29.06
7	21.24	20.86	20.35	20.57	20.95	20.92	20.06	20.13	19.91	20.18	26.11	28.53
8	21.12	20.81	20.37	20.53	20.84	20.85	20.05	20.05	19.90	19.92	27.78	27.60
9	21.04	20.73	20.41	20.51	20.76	20.79	20.05	20.00	19.90	19.70	26.76	28.08
10	20.98	20.66	20.41	20.50	20.72	20.73	20.04	19.97	19.90	19.58	24.76	28.52
11	20.94	20.61	20.40	20.45	20.69	20.68	20.04	19.95	19.90	19.54	23.32	27.03
12	20.92	20.57	20.40	20.48	20.66	20.63	20.30	19.94	19.90	19.56	22.50	25.20
13	20.90	20.53	20.36	20.50	20.65	20.59	21.60	19.93	19.89	19.51	22.38	24.18
14	20.86	20.50	21.25	20.54	20.70	20.56	21.52	19.92	19.95	19.47	26.83	23.20
15	20.84	20.48	23.23	20.57	22.09	20.53	20.88	19.92	20.23	19.46	27.96	22.73
16	20.83	20.46	22.22	20.59	22.63	20.60	20.61	19.92	20.24	19.49	26.21	21.97
17	20.76	20.44	22.16	20.56	21.93	20.84	20.46	19.92	20.16	19.49	24.66	21.60
18	20.71	20.44	22.58	20.92	21.52	20.95	20.35	19.92	20.07	19.60	23.78	21.08
19	20.62	20.47	22.07	21.88	21.25	20.76	20.27	19.92	19.98	21.92	23.88	20.85
20	20.59	20.53	21.68	21.50	21.08	20.66	20.20	19.92	20.12	27.17	24.45	20.50
21	20.54	20.54	21.42	21.17	20.97	20.58	20.15	19.92	20.13	27.59	24.33	20.57
22	20.49	20.49	21.25	20.96	20.90	20.51	20.11	19.92	20.03	25.57	24.33	20.48
23	20.44	20.44	21.12	20.83	20.82	20.47	20.09	19.92	19.97	23.70	26.74	20.36
24	20.43	20.40	21.03	20.75	20.77	20.42	20.06	19.92	19.94	22.40	23.89	20.38
25	20.39	20.38	20.98	20.80	23.47	20.38	20.03	19.92	19.94	21.58	23.01	20.31
26	20.38	20.39	20.95	20.68	26.44	20.35	20.00	19.92	19.91	21.48	23.05	22.65
27	20.40	20.40	20.96	20.73	25.32	20.31	20.04	19.92	19.97	22.78	23.95	28.22
28	20.42	20.39	20.93	20.79	23.67	20.28	20.21	19.92	20.76	24.78	26.91	26.16
29	21.20	20.38	20.92	20.88	22.74	20.24	20.22	19.92	21.49	27.86	24.14	24.34
30	21.38	20.37	20.89	20.95	---	20.20	20.19	19.92	21.46	26.37	22.78	22.92
31	20.99	---	20.87	20.97	---	20.19	---	19.91	---	24.43	22.11	---
MEAN	21.06	20.55	21.01	20.78	21.77	20.73	20.27	20.00	20.10	21.93	24.94	23.57
MAX	23.52	20.86	23.23	21.88	26.44	22.08	21.60	20.43	21.49	27.86	28.92	29.06
MIN	20.38	20.37	20.33	20.45	20.65	20.19	20.00	19.91	19.89	19.46	22.11	20.31

02300032 BRADEN RIVER NEAR LORRAINE, FL.

LOCATION.--Lat 27° 25'20", long 82° 25'00" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.20, T.35 S., R.19 E., Manatee County, Hydrologic Unit 03100202, 0.7 mi south of State Highway 70, 1.4 mi southwest of Lorraine, and 14.8 mi upstream from mouth.

DRAINAGE AREA.--25.8 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 3.79 ft below National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	3.2	e1.4	3.7	25	37	e1.1	1.0	0.21	20	106	e47
2	42	2.4	e1.4	3.5	29	27	e1.2	1.0	0.20	13	116	e58
3	30	2.1	e1.2	3.3	18	20	e1.5	2.9	0.20	9.4	e430	31
4	22	2.0	e1.3	3.1	12	16	e1.7	5.5	0.22	23	e1,240	23
5	16	2.1	e1.6	2.9	9.4	13	e1.6	3.6	0.29	28	460	63
6	11	2.4	e1.8	2.6	8.0	11	e1.1	2.1	0.23	28	252	e1,240
7	8.4	2.6	e1.7	e2.3	6.6	9.7	e0.80	1.3	0.42	33	245	e765
8	7.4	2.4	e1.5	e2.1	5.7	8.3	e0.70	1.0	0.45	21	538	370
9	8.7	2.1	0.66	e2.0	5.1	7.3	e0.75	0.86	0.27	13	370	517
10	7.9	1.8	0.63	e1.8	4.7	6.3	0.76	0.84	0.24	9.0	159	615
11	7.4	1.5	0.52	e1.6	4.4	5.6	0.76	0.79	0.23	6.8	89	314
12	6.3	e1.3	0.52	e1.7	4.0	5.1	4.4	0.57	0.40	8.4	58	151
13	5.4	e1.2	0.48	e1.9	3.7	4.8	27	0.49	1.0	6.1	55	106
14	5.9	e1.1	19	2.3	4.6	4.4	23	0.44	1.5	4.7	271	71
15	5.5	e1.0	50	2.2	32	4.0	9.9	0.44	2.1	3.6	453	54
16	4.6	e1.1	27	2.4	38	4.2	5.8	0.43	2.1	3.2	228	50
17	4.4	e1.2	23	2.4	23	5.9	4.0	0.39	1.4	3.0	124	47
18	3.9	e1.4	31	8.3	15	6.8	3.0	0.45	0.96	5.1	97	35
19	3.1	e1.7	21	19	11	5.1	2.5	0.42	0.65	89	84	27
20	2.7	e1.7	14	14	8.8	4.3	1.9	0.37	3.4	473	113	21
21	2.4	e1.4	11	9.1	7.8	3.8	1.6	0.35	3.8	e1,300	136	20
22	2.3	e1.2	8.0	6.9	7.5	3.4	1.5	0.32	2.3	e397	167	20
23	2.1	e1.3	6.5	5.5	6.3	2.7	1.5	0.28	1.6	e160	363	e30
24	1.9	e1.6	5.6	4.7	5.4	2.3	1.2	0.26	1.5	72	121	e16
25	1.9	e1.7	5.2	4.5	111	2.2	1.0	0.25	1.4	45	71	12
26	1.8	e1.6	4.9	3.9	270	e2.3	0.93	0.25	1.2	39	68	174
27	2.1	e1.3	4.9	3.8	175	e2.1	1.2	0.25	e5.8	68	55	915
28	2.3	e1.6	4.8	4.2	87	e1.9	1.8	0.24	e22	173	e44	329
29	6.3	e1.6	4.7	4.5	54	e1.7	1.6	0.23	e20	648	e36	145
30	e6.6	e1.5	4.3	5.1	---	e1.5	1.3	0.23	35	353	e27	87
31	5.0	---	4.0	5.5	---	e1.3	---	0.22	---	165	e35	---
TOTAL	300.3	51.1	263.61	140.8	992.0	231.0	107.10	27.77	111.07	4,220.3	6,611	6,353
MEAN	9.69	1.70	8.50	4.54	34.2	7.45	3.57	0.90	3.70	136	213	212
MAX	63	3.2	50	19	270	37	27	5.5	35	1,300	1,240	1,240
MIN	1.8	1.0	0.48	1.6	3.7	1.3	0.70	0.22	0.20	3.0	27	12
CFSM	0.38	0.07	0.33	0.18	1.33	0.29	0.14	0.03	0.14	5.28	8.27	8.21
IN.	0.43	0.07	0.38	0.20	1.43	0.33	0.15	0.04	0.16	6.09	9.53	9.16
*PREC	0.74	0.56	2.54	1.06	3.89	0.35	2.12	1.19	7.30	8.26	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2004, BY WATER YEAR (WY)

MEAN	23.1	21.2	20.2	18.4	16.6	19.9	14.2	12.6	54.6	84.3	98.5	83.3
MAX	114	208	172	90.1	100	160	61.6	154	264	255	340	212
(WY)	(1991)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1991)	(1992)	(2001)	(2003)	(2004)
MIN	4.50	0.79	0.93	0.54	0.37	0.35	0.25	0.16	0.28	7.72	10.3	4.43
(WY)	(2001)	(1997)	(2002)	(1997)	(1997)	(1997)	(1999)	(2000)	(2000)	(2000)	(1996)	(1996)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1989 - 2004	
ANNUAL TOTAL	24,274.66		19,409.05			
ANNUAL MEAN	66.5		53.0		39.0	
HIGHEST ANNUAL MEAN					75.3	
LOWEST ANNUAL MEAN					12.0	
HIGHEST DAILY MEAN	1,970	Jun 22	1,300	Jul 21	2,930	Jun 26, 1992
LOWEST DAILY MEAN	0.48	Dec 13	0.20	Jun 2	0.08	May 28, 2000
ANNUAL SEVEN-DAY MINIMUM	0.70	Apr 19	0.22	May 29	0.10	May 28, 2000
MAXIMUM PEAK FLOW			1,540	Aug 4	3,120	Jun 26, 1992
MAXIMUM PEAK STAGE			**24.73	Aug 4	27.90	Jun 26, 1992
ANNUAL RUNOFF (CFSM)	2.58		2.06		1.51	
ANNUAL RUNOFF (INCHES)	35.00		27.99		20.55	
10 PERCENT EXCEEDS	135		122		86	
50 PERCENT EXCEEDS	6.5		4.6		5.9	
90 PERCENT EXCEEDS	1.4		0.64		0.69	

e Estimated  
\* Precipitation, total, inches  
\*\*From high water mark

## 023000358 BRADEN RIVER AT LINGER LODGE NEAR BRADENTON, FL.

LOCATION.--Lat 27° 24'45", long 82° 26'56" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.25, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on north bank at Linger Lodge RV park, 0.5 mi east of I-75, 4.5 miles upstream from Ward Lake weir station, and 15.5 mi southeast of Bradenton.

DRAINAGE AREA.--45.3 mi<sup>2</sup>.

PERIOD OF RECORD.--March 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.44 ft, June 23, 2003; minimum, 0.32 ft, June 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.56 ft, Aug. 4; minimum, 1.60 ft, June 13.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.98	3.75	3.47	3.73	3.87	3.89	3.42	3.33	2.05	3.85	4.21	4.15
2	3.96	3.75	3.44	3.73	3.88	3.87	3.38	3.30	2.00	3.89	4.36	4.05
3	3.93	3.75	3.40	3.73	3.85	3.85	3.34	3.31	1.95	3.91	5.48	4.00
4	3.91	3.75	3.37	3.73	3.83	3.85	3.29	3.37	1.90	3.90	7.16	3.98
5	3.90	3.76	3.35	3.72	3.81	3.84	3.24	3.39	1.88	3.92	5.55	4.20
6	3.88	3.76	3.32	3.73	3.80	3.82	3.19	3.37	1.84	3.89	4.82	6.52
7	3.85	3.76	3.27	3.73	3.80	3.81	3.15	3.34	1.76	4.09	4.95	6.26
8	3.84	3.77	3.24	3.71	3.79	3.82	3.12	3.34	1.69	4.12	5.79	5.04
9	3.84	3.76	3.21	3.70	3.78	3.81	3.07	3.32	1.68	3.94	5.38	5.39
10	3.83	3.75	3.19	3.70	3.77	3.80	3.04	3.26	1.69	3.86	4.51	5.83
11	3.81	3.74	3.16	3.67	3.77	3.79	3.00	3.20	1.68	3.84	4.20	5.05
12	3.83	3.74	3.12	3.66	3.77	3.79	3.13	3.15	1.66	3.88	4.08	4.41
13	3.82	3.73	3.09	3.65	3.77	3.77	3.44	3.13	1.64	3.84	4.14	4.24
14	3.82	3.71	3.44	3.62	3.78	3.75	3.69	3.07	1.70	3.81	4.73	4.11
15	3.79	3.70	3.91	3.60	3.92	3.74	3.76	3.03	1.85	3.80	5.21	4.04
16	3.74	3.69	3.87	3.59	3.92	3.77	3.77	2.98	1.91	3.78	4.68	4.04
17	3.74	3.69	3.86	3.57	3.89	3.80	3.75	2.92	1.95	3.77	4.31	4.05
18	3.74	3.68	3.85	3.64	3.86	3.80	3.73	2.89	1.97	3.79	4.28	4.02
19	3.74	3.69	3.83	3.81	3.84	3.79	3.70	2.86	1.96	4.32	4.16	3.98
20	3.73	3.69	3.82	3.84	3.83	3.77	3.68	2.80	1.96	---	4.23	3.96
21	3.74	3.68	3.80	3.82	3.83	3.75	3.65	2.76	1.94	6.54	4.33	3.95
22	3.74	3.68	3.78	3.80	3.83	3.73	3.62	2.69	1.92	5.07	4.29	3.93
23	3.74	3.66	3.78	3.79	3.81	3.70	3.58	2.65	1.92	4.34	4.94	3.90
24	3.72	3.65	3.77	3.78	3.80	3.67	3.55	2.59	1.92	4.12	4.31	3.89
25	3.70	3.63	3.76	3.77	4.15	3.65	3.51	2.54	1.93	4.04	4.11	3.89
26	3.72	3.62	3.77	3.75	4.47	3.62	3.47	2.47	1.97	4.06	4.12	4.85
27	3.75	3.59	3.76	3.75	4.22	3.58	3.45	2.41	2.25	4.10	4.26	6.37
28	3.77	3.57	3.75	3.77	4.00	3.56	3.42	2.35	2.37	4.45	4.92	5.04
29	3.76	3.53	3.75	3.77	3.93	3.53	3.39	2.31	2.69	5.48	4.29	4.32
30	3.76	3.49	3.74	3.77	---	3.50	3.37	2.23	3.56	4.92	4.08	4.11
31	3.75	---	3.74	3.80	---	3.46	---	2.14	---	4.30	4.03	---
MEAN	3.80	3.69	3.57	3.72	3.88	3.74	3.43	2.92	1.97	---	4.64	4.52
MAX	3.98	3.77	3.91	3.84	4.47	3.89	3.77	3.39	3.56	---	7.16	6.52
MIN	3.70	3.49	3.09	3.57	3.77	3.46	3.00	2.14	1.64	---	4.03	3.89

02300042 WARD LAKE OUTFALL NEAR BRADENTON, FL.

LOCATION.--Lat 27° 26'28", long 82° 29'16" (1927 North American datum), in NE 1/4 sec.15, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on west shore of lake, 40 ft upstream from control structure, and 5 mi southeast of Bradenton.

DRAINAGE AREA.--59.5 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--April 1992 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Discharge affected by diversion by city of Bradenton. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service. Records of gage height are published as elevations for Ward Lake (station 02300042) in the section of this report entitled LAKE ELEVATIONS.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	185	11	0.00	1.8	38	70	0.00	0.00	0.00	35	166	345
2	139	11	0.00	0.92	52	52	0.00	0.00	0.00	62	241	309
3	107	9.9	0.00	0.73	44	40	0.00	0.00	0.00	78	420	218
4	86	8.1	0.00	1.7	33	36	0.00	0.00	0.00	56	1,300	165
5	74	9.7	0.00	0.81	24	30	0.00	0.00	0.00	61	972	189
6	62	11	0.00	0.50	20	24	0.00	0.00	0.00	43	568	1,130
7	49	11	0.00	0.26	13	20	0.00	0.00	0.00	86	556	1,750
8	40	11	0.00	0.08	7.9	17	0.00	0.00	0.00	132	976	871
9	37	8.8	0.00	0.00	5.4	15	0.00	0.00	0.00	67	991	750
10	31	5.4	0.00	0.00	5.4	9.4	0.00	0.00	0.00	40	568	1,180
11	31	4.0	0.00	0.00	4.0	7.7	0.00	0.00	0.00	30	364	1,030
12	31	3.7	0.00	0.00	3.3	5.7	0.00	0.00	0.00	35	267	544
13	30	3.2	0.00	0.00	3.3	5.4	0.00	0.00	0.00	29	226	380
14	25	1.1	0.00	0.00	5.5	3.8	0.00	0.00	0.00	20	388	291
15	22	0.26	18	0.00	64	1.6	0.29	0.00	0.00	14	661	234
16	16	0.00	61	0.00	77	5.4	4.6	0.00	0.00	11	650	192
17	15	0.00	50	0.00	50	14	4.7	0.00	0.00	9.0	448	204
18	13	0.00	45	0.00	32	15	1.6	0.00	0.00	10	429	185
19	11	0.00	35	5.1	23	13	0.05	0.00	0.00	93	351	167
20	8.1	0.00	24	24	17	8.3	0.00	0.00	0.00	596	305	135
21	8.1	0.00	17	22	15	3.7	0.00	0.00	0.00	1,330	323	115
22	6.4	0.00	15	17	15	0.90	0.00	0.00	0.00	690	320	108
23	4.3	0.00	11	12	12	0.01	0.00	0.00	0.00	287	455	88
24	3.3	0.00	8.5	8.1	9.9	0.00	0.00	0.00	0.00	173	438	68
25	3.3	0.00	5.4	7.0	203	0.00	0.00	0.00	0.00	145	317	61
26	3.3	0.00	5.4	5.4	466	0.00	0.00	0.00	0.00	160	259	954
27	3.3	0.00	5.4	2.8	339	0.00	0.00	0.00	0.00	129	286	1,550
28	3.4	0.00	4.1	2.2	179	0.00	0.00	0.00	0.00	226	430	902
29	8.1	0.00	3.3	3.8	104	0.00	0.00	0.00	0.00	485	403	461
30	14	0.00	3.3	5.4	---	0.00	0.00	0.00	0.16	420	267	331
31	15	---	2.1	9.0	---	0.00	---	0.00	---	221	183	---
TOTAL	1,084.6	109.16	313.50	130.60	1,864.7	397.91	11.24	0.00	0.16	5,773.0	14,528	14,907
MEAN	35.0	3.64	10.1	4.21	64.3	12.8	0.37	0.00	0.01	186	469	497
MAX	185	11	61	24	466	70	4.7	0.00	0.16	1,330	1,300	1,750
MIN	3.3	0.00	0.00	0.00	3.3	0.00	0.00	0.00	0.00	9.0	166	61
IN.	0.68	0.07	0.20	0.08	1.17	0.25	0.01	0.00	0.00	3.61	9.08	9.32
*PREC	0.95	0.81	3.09	1.85	3.93	0.47	2.90	0.53	6.42	8.63	13.92	11.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)	MEAN	MAX	MIN	(WY)																												
	56.9	140	12.1	(1996)	56.2	452	0.00	(1998)	51.4	408	0.00	(1998)	50.2	261	0.00	(1998)	32.7	243	0.00	(1998)	47.7	361	0.00	(1998)	21.2	127	0.00	(1999)	8.58	46.4	0.00	(1998)	78.4	511	0.00	(2003)	179	485	0.00	(1998)	284	699	18.7	(2003)	238	503	1.71	(2001)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1993 - 2004

ANNUAL TOTAL	62,978.49	39,119.87	
ANNUAL MEAN	173	107	92.3
HIGHEST ANNUAL MEAN			191
LOWEST ANNUAL MEAN			20.8
HIGHEST DAILY MEAN	3,260	Jun 23	2000
LOWEST DAILY MEAN	0.00	Many Days	Nov 14, 1997
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 11	Many Days
MAXIMUM PEAK FLOW		1,750	Sep 7
MAXIMUM PEAK STAGE		5.00	Sep 26
ANNUAL RUNOFF (INCHES)	39.37	24.46	5.67
10 PERCENT EXCEEDS	448	355	252
50 PERCENT EXCEEDS	35	5.4	3.4
90 PERCENT EXCEEDS	0.00	0.00	0.00

\* Precipitation, total, inches

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL.

LOCATION.--Lat 27° 26'44", long 82° 29'28" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.15, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on right bank, 250 ft upstream from State Highway 70 bridge, 0.5 mi downstream from Ward Lake Outfall, 1.6 mi south of Elwood Park, 6 miles upstream from mouth, and 6.2 mi southeast of Bradenton.

DRAINAGE AREA.--59.5 mi<sup>2</sup>, approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--April 1992 to September 2003 (gage heights only), incomplete; October 2003 to September 2004 (tidal high-high and low-low only). Records of gage height prior to October 1993 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929 (Manatee County bench mark). Prior to June 5, 1998, on left bank 50 ft upstream of State Highway 70 bridge, 250 ft downstream at same datum.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.56 ft, Sept. 14, 2001; minimum, 8.38 ft, Feb. 5, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.30 ft, Sept. 26; minimum, 8.85 ft, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.11	9.79	11.66	9.41	10.74	9.57	11.14	9.49	11.40	9.37	11.69	9.42
2	12.10	9.76	11.49	9.67	10.59	9.36	11.36	9.30	11.60	9.18	---	9.33
3	12.16	9.84	11.40	9.62	10.72	9.58	11.68	9.27	11.58	9.14	---	9.18
4	12.31	9.89	12.09	10.26	11.45	9.77	11.96	9.32	---	9.12	---	9.40
5	11.92	9.77	11.83	10.29	11.90	9.78	11.94	9.35	11.79	9.21	---	9.50
6	12.09	9.93	11.89	10.07	10.71	9.53	11.07	9.27	11.82	9.25	---	9.58
7	12.42	10.38	11.89	9.93	11.03	9.04	11.67	8.85	---	9.75	---	9.43
8	12.13	10.18	12.09	9.72	11.60	9.24	11.16	9.03	---	8.95	10.97	9.47
9	12.15	10.12	12.06	9.60	11.68	9.19	12.04	9.49	10.97	9.18	11.21	9.48
10	12.07	9.99	---	9.25	12.10	9.48	12.84	9.54	---	9.48	11.32	---
11	12.04	9.89	11.96	9.45	12.45	9.64	11.11	8.98	11.44	9.66	---	9.17
12	12.29	9.97	12.20	9.67	11.88	9.28	11.01	9.26	11.58	9.53	11.93	9.29
13	12.07	9.82	12.43	9.91	11.52	9.42	11.17	9.52	---	9.43	---	---
14	12.13	---	11.74	9.30	12.04	10.21	11.40	9.66	12.22	9.27	11.85	9.09
15	---	---	11.92	9.78	10.80	9.27	11.30	9.92	---	9.49	---	9.18
16	---	---	11.93	9.81	11.35	9.65	11.62	9.53	---	9.16	---	9.41
17	---	---	11.37	9.66	12.08	10.28	12.15	9.35	---	9.08	---	9.65
18	---	---	11.96	10.27	11.57	9.34	12.40	9.65	---	9.00	---	9.33
19	---	---	12.48	10.74	11.45	9.64	11.31	9.40	10.80	8.94	11.18	9.51
20	---	---	11.72	9.78	11.32	9.26	12.24	9.20	11.17	9.37	11.22	9.60
21	---	---	11.40	9.77	11.57	8.94	11.76	9.09	11.07	9.60	---	9.68
22	11.96	10.04	11.94	9.47	---	8.93	11.93	9.21	12.05	9.65	---	9.40
23	12.04	10.20	12.19	9.50	12.04	9.16	---	9.29	11.35	9.58	---	---
24	11.99	9.90	12.48	9.46	12.56	9.32	11.54	9.27	11.94	---	---	9.18
25	11.92	9.59	12.73	9.48	12.20	9.20	11.56	9.44	12.35	10.01	11.54	9.16
26	12.15	9.49	12.56	9.35	11.67	9.08	11.48	9.52	11.95	10.37	11.51	9.26
27	12.47	9.57	12.47	9.50	11.36	9.15	11.43	10.21	10.81	10.11	---	9.26
28	12.89	9.80	12.36	9.41	11.38	9.41	10.69	9.39	11.39	9.14	---	9.38
29	12.98	9.53	---	8.87	11.37	9.61	11.24	9.16	11.21	9.10	---	9.38
30	12.04	9.32	10.87	9.21	11.41	9.98	10.83	9.55	---	---	11.31	9.18
31	11.07	9.20	---	---	11.16	10.03	11.16	9.16	---	---	12.20	9.55
MAX	---	---	---	10.74	---	10.28	---	10.21	---	---	---	---
MIN	---	---	---	8.87	---	8.93	---	8.85	---	---	---	---

## 02300044 BRADEN RIVER NEAR ELWOOD PARK, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	9.80	---	9.58	---	9.55	12.47	9.53	12.91	10.02	11.85	10.04
2	---	9.48	---	9.91	12.21	9.41	12.52	9.45	12.61	10.08	11.50	9.80
3	11.17	9.73	11.97	9.64	12.46	9.25	12.63	---	12.75	---	11.62	9.81
4	11.58	9.86	---	9.23	12.44	---	---	9.42	12.38	10.81	11.55	9.86
5	11.63	9.68	---	9.20	12.57	9.30	---	9.55	11.88	10.75	12.53	11.41
6	---	9.60	---	---	12.32	9.45	---	9.59	12.09	10.53	13.66	11.79
7	---	9.60	12.26	9.16	12.10	9.43	---	9.54	12.10	10.79	12.61	10.88
8	---	---	---	9.22	11.85	9.54	---	9.95	12.01	10.74	12.03	10.22
9	12.24	9.56	---	9.32	11.57	9.59	---	10.05	11.68	10.20	11.99	10.46
10	11.94	9.46	---	9.33	11.44	9.83	---	9.78	11.56	9.80	11.80	10.47
11	12.49	9.30	---	9.39	11.41	10.23	---	9.82	11.83	9.68	11.94	10.02
12	12.07	9.80	11.60	9.48	11.56	9.92	---	9.52	12.21	9.91	11.98	10.06
13	12.08	9.65	11.30	9.70	11.69	9.74	11.77	9.58	12.30	10.12	11.84	10.11
14	11.15	9.44	10.99	9.69	11.90	9.78	11.94	9.51	12.47	10.22	12.06	10.28
15	10.98	9.05	---	9.83	12.02	9.66	12.19	9.47	12.43	10.18	13.27	10.98
16	10.61	9.23	---	9.44	11.96	9.47	12.19	9.47	12.24	9.87	12.41	10.50
17	10.85	9.37	---	9.43	12.08	9.36	12.41	9.57	12.14	9.99	12.18	10.06
18	11.06	9.30	---	9.36	12.16	9.48	12.53	9.81	12.14	9.88	12.11	9.77
19	11.45	9.38	---	9.61	12.20	---	12.41	---	11.90	10.09	12.21	9.59
20	11.51	9.47	---	9.48	12.17	9.52	11.77	10.05	11.70	10.11	11.86	9.61
21	11.95	9.60	11.99	---	12.17	9.54	11.76	10.42	11.82	10.05	11.76	9.22
22	11.83	10.31	12.26	9.43	11.92	9.69	11.44	10.17	11.99	9.95	12.01	9.59
23	11.66	9.40	---	9.60	11.75	9.58	11.50	9.76	12.07	10.13	12.11	9.67
24	11.72	9.26	11.92	9.54	11.35	9.77	---	9.91	12.08	9.67	12.15	9.71
25	11.73	9.33	11.72	9.51	11.38	9.88	11.51	9.64	11.99	9.48	12.43	10.12
26	11.47	9.51	11.54	9.42	11.39	9.97	11.62	9.55	12.15	9.70	15.30	12.77
27	11.38	9.62	---	9.54	11.64	9.85	11.97	9.55	12.34	9.79	12.98	11.44
28	11.08	9.24	11.30	9.70	11.72	9.55	12.04	9.90	12.44	10.06	12.29	10.58
29	10.84	9.18	11.37	9.83	12.09	9.70	12.25	10.04	12.51	9.92	11.99	10.10
30	11.45	9.36	11.86	9.88	12.23	9.43	12.49	9.80	12.49	9.89	12.08	9.95
31	---	---	11.99	9.69	---	---	12.76	9.79	12.18	9.94	---	---
MAX	---	---	---	---	---	---	---	---	12.91	---	15.30	12.77
MIN	---	---	---	---	---	---	---	---	11.56	---	11.50	9.22



## 02300044 BRADEN RIVER NEAR ELWOOD PARK, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1993 to current year, incomplete. Records of specific conductance and temperature prior to October 1993 are available in files of the Geological Survey.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 3.0 ft above the bottom and 1.0 ft above the bottom. Prior to June 5, 1998, sensors located 5.0 ft above the bottom, and 1.0 ft above the bottom at site on State Highway 70 bridge, 250 ft downstream.

REMARKS.--Temperature records excellent, conductance records good. Data collected at previous site on bridge is considered comparable to data collected at current site on right bank.

## EXTREMES FOR PERIOD OF PERIOD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 48,900 microsiemens, June 14, 2000; bottom sensor maximum, 49,200 microsiemens, June 12, 2000; top sensor minimum, 101 microsiemens, Nov. 15, 1997; bottom sensor minimum, 84 microsiemens, Sept. 23, 2004.

TEMPERATURE.--Top sensor maximum, 38.2° C, June 5, 1998; bottom sensor maximum, 35.2° C, Aug. 16, 1998; top sensor minimum, 11.1° C, Feb. 5, 1996; bottom sensor minimum, 12.0° C, Jan. 11, 1996.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 37,600 microsiemens, June 7; bottom sensor maximum, 38,400 microsiemens, June 6; top sensor minimum, 150 microsiemens, July 1; bottom sensor minimum, 84 microsiemens, Sept. 23.

TEMPERATURE.--Top sensor maximum, 34.9° C, July 10, 13; bottom sensor maximum, 33.1° C, July 11; top sensor minimum, 11.3° C, Jan. 29; bottom sensor minimum, 12.5° C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(3.0 FT ABOVE BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	393	323	14,600	7,490	25,000	23,200	20,200	16,500	17,700	1,090	696	570
2	399	328	12,200	7,140	24,000	22,200	20,800	15,600	11,500	617	697	568
3	443	329	13,500	8,060	24,600	21,700	21,400	16,200	10,800	463	1,020	577
4	407	362	14,500	10,600	26,900	22,800	22,900	16,800	14,600	539	2,060	878
5	406	363	20,300	12,000	27,000	24,400	23,200	20,400	14,500	2,340	4,230	1,320
6	392	347	18,800	11,500	25,300	24,000	23,100	19,800	15,200	7,250	5,990	1,810
7	470	372	17,900	8,230	25,500	13,700	22,400	20,600	17,900	12,100	6,800	1,410
8	456	396	17,600	7,110	25,800	24,500	22,400	12,000	13,100	3,080	7,170	3,400
9	565	412	16,500	8,070	26,400	23,300	24,900	21,300	13,000	3,020	5,850	2,180
10	697	427	12,200	9,450	28,900	26,300	26,200	22,000	16,100	6,840	6,370	3,240
11	1,460	508	14,900	8,410	28,400	26,200	22,700	11,700	18,000	10,900	7,290	2,880
12	3,580	732	18,300	9,650	27,700	20,700	22,700	20,000	19,200	12,200	8,520	4,260
13	3,850	853	19,800	12,400	27,800	26,100	22,700	21,100	20,200	13,400	9,180	5,680
14	---	---	17,000	12,700	29,100	9,280	23,300	21,300	20,200	15,200	13,600	4,930
15	---	---	18,800	15,800	9,620	1,240	23,900	21,700	17,300	743	17,500	8,350
16	---	---	21,600	17,100	6,190	1,160	23,300	22,100	1,350	570	18,200	12,900
17	---	---	21,100	17,100	19,200	1,340	25,100	21,900	3,470	332	17,300	10,200
18	---	---	23,600	19,000	6,640	1,230	25,600	22,700	2,000	819	16,100	3,230
19	---	---	24,300	21,100	5,600	1,320	25,600	16,100	6,960	963	16,400	4,960
20	---	---	23,100	20,500	7,180	1,420	24,700	2,260	10,900	1,410	16,100	7,170
21	---	---	22,400	20,100	9,070	1,650	22,800	2,570	13,600	3,160	16,000	8,970
22	9,930	5,780	22,600	19,400	11,900	1,500	23,000	3,070	14,200	3,300	16,200	11,800
23	9,960	6,690	23,200	18,700	15,400	1,920	21,400	4,890	13,600	1,960	14,800	13,700
24	9,710	7,400	24,300	21,500	16,200	3,010	19,900	3,450	15,900	7,270	15,100	13,900
25	10,400	8,320	25,200	22,700	16,800	4,480	21,000	15,800	14,000	764	15,400	13,900
26	11,500	9,540	25,600	22,200	15,700	4,350	20,600	18,000	787	536	16,000	14,300
27	13,600	10,100	26,300	23,800	15,500	4,110	20,700	19,000	672	513	17,400	13,900
28	16,900	12,900	26,800	24,700	16,500	5,720	20,200	15,800	628	494	21,700	15,800
29	16,200	12,000	25,900	23,600	18,000	13,000	20,200	6,190	618	373	19,300	15,800
30	15,900	5,760	25,500	22,000	19,600	16,000	20,500	14,900	---	---	22,300	17,300
31	14,000	6,630	---	---	20,300	17,300	17,500	2,580	---	---	24,600	19,500
MONTH	---	---	26,800	7,110	29,100	1,160	26,200	2,260	20,200	332	24,600	568

## 02300044 BRADEN RIVER NEAR ELWOOD PARK, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (3.0 FT ABOVE BOTTOM)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24,700	20,200	27,400	25,000	35,000	32,600	19,100	150	400	319	466	304
2	22,600	20,100	27,700	25,800	35,500	31,600	21,100	414	424	311	376	306
3	22,700	21,200	27,700	25,100	36,900	33,100	13,900	522	420	302	380	316
4	22,700	21,500	26,800	21,500	36,800	32,100	10,800	533	357	267	390	329
5	22,800	21,700	25,300	21,200	37,500	32,500	6,170	803	328	251	363	311
6	24,100	21,800	26,900	20,800	37,500	34,400	5,100	744	343	250	377	299
7	25,000	22,400	28,900	24,700	37,600	35,200	3,040	735	411	265	301	263
8	26,100	23,400	30,200	25,300	37,100	34,800	985	619	382	309	309	264
9	26,900	24,500	30,500	27,300	36,400	27,100	854	645	366	295	284	252
10	26,200	24,300	30,100	26,600	36,900	28,000	991	637	400	293	269	254
11	28,100	24,300	31,100	26,100	36,300	30,600	1,330	684	440	296	288	244
12	26,200	20,800	31,700	27,200	36,200	33,400	1,500	711	431	298	306	251
13	23,600	15,800	31,800	29,400	35,600	30,700	6,320	845	410	311	291	252
14	19,700	13,200	31,900	28,600	35,000	21,100	10,200	1,780	397	300	290	236
15	17,200	6,180	32,000	30,300	33,700	21,900	14,200	3,500	381	313	277	252
16	16,900	4,120	32,000	30,800	31,600	21,100	14,500	3,850	357	281	318	255
17	17,700	7,200	32,000	30,300	29,700	22,500	16,300	7,420	401	279	318	271
18	16,500	12,400	32,400	30,000	30,600	22,200	18,500	8,680	373	276	363	288
19	18,200	14,500	33,100	29,500	30,600	26,200	18,400	1,210	376	287	374	298
20	21,200	12,500	33,400	26,400	30,200	27,100	1,270	555	362	291	378	305
21	23,200	17,600	33,800	31,300	30,400	24,900	707	450	361	301	377	316
22	24,400	18,800	35,400	30,700	30,400	26,300	567	385	371	301	367	308
23	23,400	20,000	35,800	30,300	29,800	26,100	491	369	323	288	379	305
24	23,900	19,200	36,200	33,700	29,600	27,000	519	366	365	278	412	337
25	25,200	19,600	36,000	32,900	29,500	25,700	583	388	422	277	406	344
26	26,200	22,100	35,400	33,300	29,500	19,700	507	369	383	278	12,500	375
27	25,800	22,400	35,000	32,600	26,700	13,000	573	361	363	290	535	330
28	24,600	19,000	34,600	32,500	23,200	13,500	570	354	345	303	408	301
29	24,200	18,000	34,700	33,700	25,700	9,130	477	371	375	292	471	285
30	26,900	21,700	35,200	34,000	22,300	7,760	476	326	372	298	437	308
31	---	---	35,000	32,000	---	---	454	308	390	304	---	---
MONTH	28,100	4,120	36,200	20,800	37,600	7,760	21,100	150	440	250	12,500	236

## 02300044 BRADEN RIVER NEAR ELWOOD PARK, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	400	320	16,400	8,770	25,000	23,800	21,900	17,300	22,600	11,200	698	577
2	415	328	15,900	8,520	24,600	22,100	22,100	18,400	21,400	1,110	870	584
3	461	338	15,600	9,600	25,300	22,500	22,700	17,300	18,800	667	2,170	648
4	427	356	19,400	13,800	27,700	23,600	23,600	18,600	17,000	675	4,770	883
5	408	369	22,300	15,800	27,900	24,700	24,200	19,800	17,900	5,460	6,660	1,330
6	409	360	21,400	18,000	27,000	24,000	24,200	21,000	18,200	11,400	7,860	3,230
7	494	372	20,500	17,400	25,800	23,300	22,400	20,100	18,700	12,500	8,190	5,890
8	539	402	19,800	12,600	26,200	24,100	23,600	18,900	13,500	3,430	7,860	3,480
9	725	428	18,800	10,800	26,900	24,100	26,000	20,500	14,500	7,980	6,520	3,010
10	1,010	489	14,500	10,200	29,000	25,500	27,200	22,600	17,900	12,000	6,870	4,090
11	2,030	635	17,600	9,820	28,500	26,100	23,400	21,400	19,000	13,900	8,210	3,000
12	4,430	876	20,200	10,700	27,700	26,200	23,400	21,400	19,900	16,000	9,800	4,760
13	4,810	976	21,800	15,400	28,300	26,300	24,100	21,700	20,500	16,900	13,700	5,790
14	---	---	19,700	14,100	29,700	12,900	24,800	22,200	21,300	16,500	15,700	7,490
15	---	---	22,400	16,900	12,900	648	25,800	22,400	19,700	15,100	18,300	10,400
16	---	---	23,700	19,500	19,000	1,010	25,800	23,100	15,100	564	19,700	14,100
17	---	---	24,800	19,800	20,800	3,440	26,600	22,000	9,310	445	19,800	12,800
18	---	---	25,400	22,200	12,600	622	27,300	24,200	7,660	629	17,800	8,260
19	---	---	26,200	23,500	12,200	990	27,200	23,700	8,040	696	17,600	13,300
20	---	---	24,000	20,700	9,570	1,060	26,200	1,470	12,300	4,310	17,200	10,100
21	---	---	24,100	22,100	10,400	924	24,600	5,850	14,300	10,300	17,000	13,900
22	11,900	7,400	24,400	21,500	11,500	1,080	24,200	10,500	14,900	9,700	17,300	13,200
23	11,500	7,730	25,000	21,300	15,400	6,250	23,000	15,600	14,700	11,100	15,100	13,500
24	11,800	8,420	25,400	22,800	16,200	10,900	21,700	18,900	17,800	12,400	15,100	12,200
25	12,200	8,880	25,600	22,700	16,700	9,930	22,200	18,000	14,100	778	16,100	12,000
26	12,800	10,200	26,200	22,800	16,100	8,630	22,200	19,300	839	554	16,900	12,200
27	15,600	11,400	26,600	24,400	15,800	6,420	22,200	17,600	676	515	21,100	13,400
28	18,400	13,600	27,200	25,100	17,100	10,600	20,500	18,900	621	508	23,100	15,100
29	17,700	13,100	25,800	23,800	19,000	15,100	21,600	16,200	622	538	23,300	15,500
30	17,600	8,110	25,100	23,200	21,000	16,900	22,800	18,800	---	---	23,900	17,900
31	16,000	9,310	---	---	21,400	17,300	21,900	18,500	---	---	24,800	21,000
MONTH	---	---	27,200	8,520	29,700	622	27,300	1,470	22,600	445	24,800	577
DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER						
1	24,700	21,100	26,500	23,200	36,600	34,900	24,100	13,100	410	317	473	297
2	23,500	21,200	25,800	23,300	37,100	34,400	23,300	1,690	443	311	382	297
3	23,300	21,600	25,700	23,200	37,600	35,000	20,200	1,070	447	310	393	309
4	23,400	21,700	25,000	22,000	38,000	35,900	17,300	1,110	376	272	385	323
5	23,500	22,100	24,400	21,300	38,200	35,900	15,500	929	349	250	354	305
6	24,600	22,100	25,500	21,900	38,400	36,000	12,400	883	367	253	370	293
7	25,800	22,700	27,000	22,800	38,000	35,700	8,750	917	448	270	301	260
8	27,100	23,700	28,000	23,400	38,200	36,000	1,550	651	409	325	310	251
9	27,800	25,100	28,700	24,500	38,200	35,600	1,180	681	382	296	280	245
10	27,400	25,000	29,600	25,900	38,000	34,400	1,140	673	402	301	266	241
11	28,700	25,300	29,600	25,800	38,000	34,700	3,760	741	459	301	287	230
12	26,700	23,000	30,700	27,300	37,600	32,800	6,050	1,270	443	308	296	236
13	25,500	22,400	31,100	28,300	36,800	31,400	8,000	3,310	419	318	283	245
14	23,400	15,000	31,300	27,900	36,200	32,400	13,500	7,210	477	307	282	251
15	19,200	15,600	32,300	27,800	35,300	29,000	15,800	8,460	405	304	285	257
16	19,900	14,500	31,600	29,100	34,300	27,700	16,300	10,700	381	284	313	251
17	20,000	13,200	32,900	29,600	32,900	26,200	16,900	13,200	405	287	321	257
18	19,500	11,700	31,900	29,200	32,200	26,500	20,000	13,600	376	293	349	272
19	21,000	16,400	33,400	29,100	31,600	27,700	20,400	1,210	383	293	431	279
20	21,500	12,800	33,700	30,400	31,200	27,700	1,340	564	413	296	590	209
21	23,800	17,900	33,800	31,400	31,300	28,300	715	454	372	299	464	114
22	24,600	19,100	34,600	31,600	31,100	28,200	573	385	461	303	365	101
23	23,900	19,900	35,500	31,900	31,000	28,100	501	372	317	285	407	84
24	24,200	20,400	35,700	32,300	30,400	27,700	591	367	363	274	405	183
25	24,900	21,000	35,200	33,000	30,500	28,100	681	399	391	277	404	127
26	25,900	21,700	35,600	32,800	30,400	26,100	522	396	386	274	12,200	257
27	25,400	22,400	35,500	33,300	29,200	20,300	575	364	372	288	538	314
28	25,200	20,400	36,000	34,100	28,600	21,200	578	360	358	295	401	295
29	25,900	19,200	35,800	32,300	28,000	20,900	500	372	365	287	393	288
30	26,200	20,800	36,100	33,900	25,600	19,100	490	326	381	291	424	313
31	---	---	36,200	35,000	---	---	509	315	434	289	---	---
MONTH	28,700	11,700	36,200	21,300	38,400	19,100	24,100	315	477	250	12,200	84





## 02300064 BRADEN RIVER AT BRADENTON, FL.

LOCATION.--Lat 27° 29'46", long 82° 31'32" (1927 North American datum), in SW  $\frac{1}{4}$  sec.29, T.34 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on left bank on public dock, 100 ft upstream from State Road 64 bridge, 0.7 mi upstream from mouth, and 2.9 mi east of Bradenton.

DRAINAGE AREA.--83 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1994 to September 2003 (gage heights only), incomplete; October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929 (Manatee County reference mark).

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.05 ft, Sept. 26, 2004; minimum, 8.42 ft, Jan. 15, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 15.05 ft, Sept. 26; minimum, 8.86 ft, Feb. 8.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.08	9.85	11.67	9.50	10.71	9.59	11.19	9.63	11.31	9.37	11.62	9.44
2	12.11	9.86	11.46	9.79	10.58	9.44	10.73	9.41	10.91	9.15	10.84	9.33
3	12.18	9.98	12.05	9.81	11.45	9.68	11.73	9.38	11.50	9.09	11.58	9.15
4	12.31	10.02	11.91	10.40	11.91	9.91	12.03	9.44	11.72	9.06	11.80	9.44
5	11.92	9.90	11.83	10.44	11.57	9.92	11.99	9.47	10.59	9.29	10.93	9.55
6	12.11	10.09	11.86	10.21	11.03	9.46	11.65	9.34	11.77	9.38	11.99	9.68
7	12.40	10.55	11.88	10.07	11.60	9.04	---	8.91	12.12	9.69	11.59	9.45
8	12.12	10.34	12.07	9.84	10.72	9.30	11.20	9.05	10.98	8.86	11.56	9.43
9	12.08	10.27	12.02	9.65	11.67	9.27	12.06	9.64	10.81	9.19	11.34	9.50
10	12.03	10.14	11.32	9.25	12.10	9.67	12.78	9.55	11.16	9.57	11.64	9.80
11	12.00	10.08	11.90	9.54	12.38	9.64	11.09	8.97	11.34	9.77	11.37	9.13
12	12.26	10.14	12.17	9.83	11.84	9.36	11.04	9.35	11.47	9.59	11.79	9.30
13	12.05	9.99	12.40	10.00	11.50	9.54	11.18	9.60	11.37	9.46	11.60	9.40
14	12.14	10.11	11.69	9.41	12.08	10.32	11.42	9.79	12.09	9.33	11.76	9.08
15	12.29	9.85	11.94	9.95	10.75	9.29	11.38	10.06	11.77	9.50	11.91	9.20
16	11.54	9.68	11.94	9.99	11.31	9.77	11.68	9.66	11.27	9.02	12.04	9.47
17	11.84	10.10	11.38	9.82	11.85	10.30	12.19	9.46	11.51	8.98	11.60	9.65
18	12.02	9.99	12.01	10.43	11.55	9.43	12.43	9.82	10.85	8.91	10.78	9.34
19	11.34	9.99	12.41	10.91	11.41	9.68	12.24	9.50	10.58	8.92	11.79	9.54
20	11.64	9.85	11.69	9.89	11.31	9.31	11.77	9.16	11.83	9.40	11.49	9.64
21	11.90	10.16	11.92	9.90	11.54	8.96	---	9.07	12.13	9.66	11.53	9.75
22	11.87	10.17	12.16	9.55	12.00	8.96	11.95	9.18	11.93	9.70	11.63	9.40
23	12.00	10.34	11.45	9.57	---	9.19	11.81	9.23	11.27	9.66	10.76	9.14
24	11.94	10.05	12.47	9.58	12.51	9.39	11.57	9.32	11.80	10.02	10.82	9.19
25	11.90	9.71	12.69	9.52	12.19	9.22	11.60	9.61	12.18	9.97	11.50	9.29
26	12.12	9.63	12.52	9.43	11.68	9.07	11.52	9.82	11.83	10.28	11.48	10.15
27	12.44	9.73	12.44	9.66	11.37	9.22	11.52	10.05	10.82	10.00	11.48	9.32
28	12.90	10.03	12.36	9.51	11.41	9.58	10.62	9.36	11.27	8.89	11.74	9.46
29	12.92	9.58	---	8.95	11.41	9.85	11.17	9.16	11.19	8.95	11.51	9.43
30	12.01	9.42	10.86	9.30	11.45	10.13	10.71	9.59	---	---	11.56	9.18
31	11.29	9.29	---	---	11.20	10.16	11.10	9.16	---	---	12.05	9.60
MAX	12.92	10.55	---	10.91	---	10.32	---	10.06	12.18	10.28	12.05	10.15
MIN	11.29	9.29	---	8.95	---	8.96	---	8.91	10.58	8.86	10.76	9.08

## 02300064 BRADEN RIVER AT BRADENTON, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.38	9.82	11.39	9.70	12.23	9.67	12.35	9.43	12.78	9.84	11.76	9.99
2	11.92	9.50	11.79	10.02	12.29	9.54	12.46	9.38	12.42	9.86	11.46	9.79
3	10.99	9.72	11.94	9.72	12.49	9.30	12.55	9.43	12.51	10.23	11.52	9.85
4	11.49	9.85	11.39	9.22	12.49	9.34	12.47	9.54	12.13	10.33	11.54	9.87
5	11.60	9.67	11.70	9.19	12.62	9.52	12.28	9.64	11.76	10.40	12.31	11.00
6	11.64	9.58	12.08	9.18	12.39	---	11.93	10.30	11.99	10.44	13.49	11.56
7	11.94	9.60	12.21	---	12.18	9.50	11.55	9.60	11.73	10.34	12.38	10.47
8	12.36	9.66	12.30	9.23	11.93	9.60	11.36	10.00	11.85	10.19	11.98	10.01
9	12.26	10.77	12.30	9.38	11.58	9.69	11.27	10.17	11.55	9.83	11.45	10.08
10	11.92	9.56	11.89	9.38	11.50	9.95	11.36	9.88	11.54	9.67	11.65	9.84
11	12.38	9.36	11.56	9.48	11.45	10.35	11.59	9.94	11.79	9.69	---	---
12	12.13	9.96	11.59	9.58	11.58	10.02	11.50	9.55	12.17	9.96	---	---
13	11.99	9.81	11.30	9.82	11.71	9.83	11.81	9.71	11.25	9.95	---	---
14	11.10	9.35	11.08	9.80	11.90	9.86	11.95	9.61	12.27	9.85	---	---
15	10.94	9.01	11.33	9.93	12.04	9.72	12.16	9.57	12.28	9.82	---	---
16	10.56	9.23	11.20	9.52	11.96	9.50	12.15	9.57	12.13	9.76	---	---
17	10.84	9.41	11.45	9.49	12.04	9.38	12.41	9.70	12.03	9.90	12.07	10.10
18	11.02	9.32	11.63	9.42	12.12	9.49	12.54	9.94	12.01	9.86	12.00	9.77
19	11.41	9.38	11.96	9.69	12.16	9.54	12.39	10.04	11.82	10.12	12.13	9.58
20	11.45	9.49	12.06	9.56	12.14	9.55	11.93	9.98	11.64	10.15	11.77	9.57
21	11.91	9.64	11.94	9.52	12.12	9.72	11.74	9.92	11.77	10.03	11.67	9.12
22	11.76	9.40	12.23	9.70	11.88	10.80	11.52	10.27	11.90	9.93	11.94	9.65
23	11.58	---	12.10	---	11.73	9.58	11.50	9.80	11.99	9.87	12.07	9.73
24	11.69	9.24	11.88	9.64	11.30	9.81	11.47	10.03	12.03	9.61	12.04	9.75
25	11.66	9.33	11.65	9.58	11.34	9.92	11.61	9.84	11.93	9.39	12.27	9.98
26	11.42	9.52	11.48	9.49	11.33	10.00	11.70	9.64	12.12	9.54	15.05	11.14
27	11.23	9.64	11.15	9.62	11.60	9.88	12.00	9.55	12.27	9.56	---	---
28	11.07	9.18	11.29	9.80	11.66	9.56	12.07	9.58	12.33	9.80	---	---
29	10.86	9.26	11.33	9.93	12.03	9.62	12.24	9.57	12.43	9.89	---	---
30	11.42	9.44	11.78	9.98	12.13	9.35	12.47	9.61	12.34	9.92	---	---
31	---	---	11.95	9.73	---	---	12.67	9.66	12.06	10.02	---	---
MAX	12.38	---	12.30	---	12.62	---	12.67	10.30	12.78	10.44	---	---
MIN	10.56	---	11.08	---	11.30	---	11.27	9.38	11.25	9.39	---	---

## 02300064 BRADEN RIVER AT BRADENTON, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1995 to current year, incomplete.

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature sensor located 0.2 ft above the bottom.

REMARKS.--Specific conductance records good, temperature records excellent. Interruptions in record were due to periods when the sensor lost power.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 54,000 microsiemens, June 16, 2000; minimum, 282 microsiemens, Mar. 20, 1998.

TEMPERATURE.--Maximum, 35.0° C, Aug. 25, 2001; minimum, 4.6° C, Dec. 21, 1996.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 47,000 microsiemens, June 6; minimum, 501 microsiemens, Sept. 10.

TEMPERATURE.--Maximum, 34.9° C, July 10; minimum, 11.8° C, Dec. 22.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(0.2 FT ABOVE BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10,100	6,630	32,500	25,900	36,900	34,800	35,800	30,700	38,900	27,600	29,000	8,370
2	9,570	5,470	33,000	27,300	38,500	32,100	36,900	30,800	38,900	28,700	29,200	11,600
3	11,600	5,800	34,700	27,600	39,700	34,700	38,100	31,100	38,500	27,000	29,100	14,000
4	17,000	7,400	34,800	29,300	40,500	36,100	39,200	32,300	38,500	28,200	31,700	18,500
5	18,100	9,600	35,500	29,900	40,500	36,700	39,400	33,400	39,600	29,300	32,200	21,200
6	20,400	12,200	35,500	30,000	39,600	35,100	39,300	32,300	40,000	32,100	32,900	23,900
7	24,700	15,100	35,100	29,000	39,200	35,000	38,000	31,500	40,800	34,500	31,900	24,100
8	23,500	15,800	35,100	29,100	39,300	35,200	38,900	32,200	38,400	30,700	31,100	24,300
9	25,600	16,900	34,600	28,800	40,600	35,500	40,700	35,300	37,800	32,700	30,300	24,500
10	26,000	17,100	32,800	27,800	41,100	37,100	41,300	32,800	40,000	34,000	30,600	23,700
11	27,800	18,500	34,800	27,100	41,500	37,500	36,800	31,600	40,500	35,100	30,400	21,700
12	28,600	19,400	35,500	28,300	40,400	36,800	38,200	35,200	41,100	34,500	32,900	23,600
13	27,900	20,000	36,900	30,500	40,700	37,200	38,800	34,100	40,400	34,600	32,200	24,000
14	28,600	22,300	34,700	29,700	41,200	30,200	39,600	34,100	41,700	33,000	33,900	22,200
15	30,500	20,100	35,900	29,400	34,900	23,100	39,700	36,500	40,600	33,000	36,200	24,200
16	26,700	20,000	36,600	31,400	35,700	23,400	39,200	36,200	38,800	27,900	35,600	26,100
17	28,700	20,300	35,900	31,200	38,700	25,600	41,100	34,700	38,900	26,500	35,200	27,700
18	29,800	21,700	37,700	31,900	36,400	23,100	41,200	36,100	38,100	26,600	34,300	27,100
19	28,600	21,900	38,300	33,500	34,200	26,700	40,900	34,900	39,200	26,300	34,500	28,600
20	28,700	22,000	37,200	32,600	33,900	23,900	39,700	35,000	40,000	29,000	34,500	29,700
21	30,900	24,500	36,800	30,600	34,100	21,700	38,800	33,600	41,400	33,300	35,100	30,100
22	31,700	25,000	37,500	30,900	35,600	22,600	39,200	33,000	40,600	33,100	35,400	30,600
23	32,400	26,200	38,500	33,000	37,500	26,400	38,700	34,200	39,700	33,000	33,900	29,200
24	31,800	25,500	39,900	31,900	37,900	28,900	38,600	34,400	40,600	32,200	35,800	29,200
25	31,900	25,800	40,000	35,000	36,800	27,800	39,300	34,900	36,300	18,800	37,000	29,800
26	32,700	26,200	39,300	34,200	34,500	26,800	39,700	36,300	30,200	10,400	37,800	31,300
27	34,400	27,500	39,900	35,100	33,500	27,800	40,100	36,600	11,600	6,190	38,200	31,100
28	35,500	29,100	40,300	35,700	34,500	29,500	38,800	34,800	11,500	2,980	38,600	32,000
29	35,600	27,400	38,700	33,400	36,000	31,000	38,700	32,300	22,300	3,730	38,100	32,700
30	32,100	26,700	36,700	33,400	37,500	31,900	38,300	35,200	---	---	38,000	31,900
31	32,200	26,000	---	---	36,100	31,400	38,400	32,100	---	---	40,000	34,200
MONTH	35,600	5,470	40,300	25,900	41,500	21,700	41,300	30,700	41,700	2,980	40,000	8,370



## 02300064 BRADEN RIVER AT BRADENTON, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(0.2 FT ABOVE BOTTOM)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	39,900	35,900	41,900	37,600	46,000	43,600	38,700	29,700	24,100	7,160	15,900	2,480
2	40,200	35,200	41,900	39,200	45,900	43,600	39,900	28,000	20,100	4,970	14,000	2,820
3	40,300	35,300	42,000	38,700	46,100	43,100	38,700	26,000	14,800	2,090	15,300	4,980
4	39,200	36,000	40,600	38,000	46,100	42,900	38,500	26,900	3,500	1,100	14,300	4,980
5	39,400	36,400	41,100	36,400	46,900	43,000	38,500	26,900	1,280	942	15,300	6,860
6	39,400	36,200	41,900	37,600	47,000	43,300	38,200	25,400	1,600	847	17,400	904
7	40,400	36,500	42,900	38,300	46,800	43,400	35,900	23,700	1,370	626	1,270	636
8	41,600	36,700	43,800	38,300	46,100	42,500	35,800	20,800	901	604	1,120	639
9	40,800	37,600	44,000	38,300	45,600	40,800	33,700	16,900	1,050	660	948	607
10	40,400	36,100	44,200	36,300	45,800	42,300	34,800	21,100	3,000	768	876	501
11	41,800	35,700	44,600	38,700	45,200	43,600	35,300	23,400	9,640	1,820	649	526
12	40,100	30,900	44,500	40,800	45,200	43,600	36,100	24,800	17,700	3,540	---	---
13	39,900	30,600	44,800	41,500	45,100	33,700	38,000	26,400	16,500	3,620	---	---
14	37,900	31,700	44,100	41,400	42,400	33,200	38,400	25,800	15,400	1,230	---	---
15	36,300	30,200	45,000	42,800	42,500	33,900	38,600	27,000	5,930	990	---	---
16	36,500	30,300	44,800	42,600	40,900	35,300	38,700	27,800	3,160	950	24,700	---
17	37,200	32,000	45,200	40,800	39,500	34,500	39,800	29,500	4,780	1,040	22,500	8,460
18	38,400	32,200	45,200	42,300	39,200	34,500	40,300	32,200	6,590	1,360	21,200	7,450
19	38,500	34,600	45,400	41,400	41,700	34,800	39,200	27,800	6,940	1,870	20,900	6,690
20	39,100	33,900	45,700	41,800	40,500	34,600	33,200	7,310	7,680	2,330	19,100	7,280
21	40,400	36,100	45,600	43,300	41,400	34,600	20,600	3,590	8,890	2,180	20,300	3,240
22	40,500	35,200	46,700	43,200	41,300	35,800	13,500	2,530	10,600	2,500	23,100	10,100
23	40,300	34,600	46,900	41,900	40,800	35,200	16,300	3,240	12,800	1,770	24,300	12,800
24	40,500	34,000	46,900	42,600	40,300	36,300	19,000	4,840	14,500	1,860	24,700	13,200
25	41,300	35,200	46,900	42,800	40,600	36,500	18,400	6,640	14,700	2,670	25,300	16,900
26	41,200	35,600	46,700	42,700	40,500	37,200	22,700	6,910	20,100	4,560	35,500	12,200
27	40,400	37,500	46,000	43,000	40,000	34,800	22,200	6,320	22,000	4,360	17,900	2,200
28	39,300	32,500	45,000	42,900	39,500	34,900	24,200	3,540	21,100	3,300	8,440	1,540
29	39,700	34,800	44,800	43,300	39,300	25,300	18,700	2,700	20,400	3,540	6,380	1,420
30	41,500	35,500	45,200	43,800	37,900	28,100	17,600	3,260	20,500	6,010	6,740	1,770
31	---	---	45,500	44,200	---	---	22,400	4,730	20,900	6,600	---	---
MONTH	41,800	30,200	46,900	36,300	47,000	25,300	40,300	2,530	24,100	604	---	---

## 02300064 BRADEN RIVER AT BRADENTON, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(0.2 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	26.7	25.5	26.3	23.5	19.7	16.7	21.5	19.2	18.1	15.6	20.3	17.8				
2	27.2	25.3	25.9	23.5	19.5	16.6	21.8	19.3	19.0	17.3	21.6	18.8				
3	27.9	24.9	25.8	23.6	19.7	16.8	21.9	19.7	19.8	15.5	22.4	19.9				
4	28.8	25.8	26.0	24.0	20.3	18.0	21.8	20.5	21.3	18.3	23.2	20.1				
5	29.1	26.5	26.8	24.9	20.9	19.4	22.3	20.5	21.8	18.9	23.3	20.8				
6	29.1	26.4	27.1	25.5	19.7	16.5	22.7	20.7	23.1	19.5	24.9	21.2				
7	28.4	26.7	27.5	25.6	16.9	15.1	20.9	13.0	22.0	18.3	25.0	22.8				
8	29.0	26.0	27.7	26.2	16.8	14.8	18.2	14.8	18.3	12.7	23.9	20.7				
9	28.7	26.8	26.9	24.5	19.2	16.2	18.6	16.9	18.4	15.2	21.8	19.5				
10	28.1	26.8	25.4	23.0	19.1	17.2	18.2	13.9	20.5	17.4	20.9	18.3				
11	27.8	26.6	25.7	23.4	18.5	17.0	15.7	12.1	21.3	18.8	20.5	17.5				
12	28.3	26.9	25.8	23.5	18.7	15.9	15.9	13.1	22.5	20.5	21.0	18.5				
13	28.7	27.4	26.0	23.9	18.1	16.1	16.8	14.2	23.0	22.0	22.1	18.9				
14	29.0	27.6	24.3	20.6	19.6	17.0	17.0	14.7	22.3	21.1	22.0	19.0				
15	28.9	26.4	24.2	21.3	18.5	15.6	17.6	15.4	21.6	20.3	21.8	20.6				
16	27.6	24.1	24.4	21.5	18.8	14.1	17.7	15.8	20.3	18.0	22.2	21.5				
17	27.9	24.0	25.2	21.7	18.6	16.0	17.6	15.6	18.8	17.1	24.0	21.5				
18	28.1	24.7	24.9	22.7	16.9	14.3	17.8	16.6	18.0	15.0	24.2	20.7				
19	28.2	24.9	23.7	22.2	16.6	15.0	18.5	17.0	17.9	14.2	25.2	22.0				
20	27.0	24.9	22.3	20.2	15.5	13.6	18.2	15.9	17.9	16.1	25.0	22.5				
21	27.2	24.5	22.2	19.8	15.2	12.2	17.6	14.9	19.8	17.1	24.9	22.5				
22	27.1	24.9	22.5	20.3	15.9	11.8	17.7	15.4	21.4	18.0	24.2	20.8				
23	27.2	25.1	22.7	20.8	17.1	14.7	17.3	15.3	22.0	19.4	22.2	18.4				
24	26.6	24.3	22.8	21.2	17.9	15.2	17.3	14.9	22.2	20.0	22.0	18.7				
25	26.1	24.4	22.8	22.0	18.2	16.1	18.2	15.6	21.9	19.4	21.6	19.1				
26	26.8	24.8	24.7	21.5	18.3	15.1	21.3	16.9	21.9	19.5	22.4	19.4				
27	27.3	25.5	24.0	21.9	19.0	15.5	21.4	18.8	21.0	15.3	22.6	20.3				
28	26.3	25.5	25.1	21.9	18.6	15.7	19.4	16.2	18.3	13.0	23.3	20.9				
29	27.2	24.6	22.1	16.9	19.5	16.4	17.8	13.8	19.7	14.7	24.3	21.4				
30	26.5	23.4	18.6	15.2	20.5	16.8	16.9	16.1	---	---	24.2	21.3				
31	26.9	23.3	---	---	22.0	18.2	16.6	15.6	---	---	25.2	23.1				
MONTH	29.1	23.3	27.7	15.2	22.0	11.8	22.7	12.1	23.1	12.7	25.2	17.5				
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	24.0	21.6	28.7	25.7	32.6	30.1	32.3	29.0	30.6	28.5	32.3	28.6				
2	23.1	20.1	29.1	26.3	32.5	29.9	31.4	28.9	29.5	28.1	31.6	29.1				
3	23.1	20.1	27.6	25.5	32.5	29.6	31.5	28.6	28.7	27.4	31.8	29.0				
4	23.0	20.1	27.3	23.8	32.0	29.1	31.5	29.1	29.2	27.4	30.5	27.9				
5	22.9	20.1	27.1	23.2	31.5	28.9	31.8	29.2	30.6	28.0	27.9	25.4				
6	23.1	19.9	27.3	24.3	31.5	28.8	32.7	29.9	31.2	29.0	26.2	25.4				
7	23.5	21.5	27.7	24.7	31.8	28.4	32.4	29.2	30.7	28.1	29.9	26.0				
8	24.6	22.3	27.8	24.5	31.5	28.6	32.3	28.5	28.9	27.6	30.6	28.1				
9	25.3	23.4	27.8	25.1	31.8	28.5	34.7	29.8	29.4	27.6	29.5	28.3				
10	26.5	24.1	27.0	24.8	31.8	28.8	34.9	30.9	31.8	28.1	30.5	27.6				
11	26.5	24.5	27.8	25.2	31.8	29.3	34.8	31.3	32.8	29.7	---	27.9				
12	25.0	22.4	28.7	25.5	32.3	29.5	33.6	30.3	31.6	29.5	---	---				
13	23.8	21.8	28.7	25.7	32.5	29.6	33.9	30.9	30.3	26.9	---	---				
14	22.1	18.8	28.6	25.2	30.9	29.4	33.9	31.1	28.8	26.8	---	---				
15	21.7	17.4	28.4	25.2	31.0	28.2	32.8	30.7	29.4	26.5	---	---				
16	23.8	18.9	27.6	25.7	31.6	29.0	32.3	30.5	30.8	27.4	---	---				
17	24.3	20.3	28.3	24.9	31.8	29.1	31.1	29.2	31.2	28.3	29.9	27.8				
18	24.6	20.7	28.6	25.6	31.5	29.0	30.8	29.2	31.1	28.6	31.6	28.9				
19	24.5	21.3	28.0	26.0	32.8	29.7	29.8	27.8	31.9	29.0	32.0	28.4				
20	25.2	22.2	29.0	26.0	32.7	30.4	28.3	26.9	32.2	30.1	29.5	27.4				
21	24.7	23.0	29.3	26.5	32.7	30.5	31.2	26.4	32.5	29.4	27.5	26.3				
22	25.9	23.0	29.2	26.4	33.0	30.9	31.2	28.4	32.2	29.2	27.6	25.9				
23	27.7	24.1	29.6	26.8	33.6	30.7	32.1	28.4	31.9	29.6	29.0	25.7				
24	27.5	24.3	30.0	27.1	32.7	30.6	33.1	29.4	31.7	30.1	28.6	26.2				
25	26.9	24.8	30.6	26.9	32.6	29.7	33.5	29.6	32.4	29.8	27.6	26.1				
26	28.1	25.1	30.8	27.7	32.8	30.3	32.5	30.1	31.8	29.9	26.2	24.9				
27	27.1	24.4	31.5	28.5	31.7	29.5	31.1	29.8	33.1	29.4	27.3	24.8				
28	27.8	22.6	31.9	28.8	32.1	28.8	31.7	27.8	32.3	28.9	28.4	26.1				
29	26.6	23.1	32.7	29.2	31.9	28.4	31.0	27.6	32.6	29.4	28.8	26.8				
30	28.2	24.3	33.2	30.0	31.3	28.5	31.2	28.6	33.0	29.8	29.7	27.3				
31	---	---	32.8	30.3	---	---	31.0	28.6	32.8	29.5	---	---				
MONTH	28.2	17.4	33.2	23.2	33.6	28.2	34.9	26.4	33.1	26.5	---	---				

## 02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL.

LOCATION.--Lat 27° 42'16", long 82° 11'53" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.15, T.32 S., R.21 E., Hillsborough County, Hydrologic Unit 03100203, on left bank, 100 ft downstream from bridge on State Highway 674, 0.6 mi upstream from Howard Prairie Branch, 3.2 mi west of Fort Lonesome, 6.2 mi east of Wimauma, and 30 mi upstream from mouth.

DRAINAGE AREA.--31.4 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 45.00 ft above National Geodetic Vertical Datum of 1929. Prior to June 23, 1980, at site 100 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Small diurnal fluctuation at low flow.

REVISIONS.--The maximum peak stage for period of record reported for water years 1988-2003 is in error. The correct maximum peak stage is 12.24 ft on Sept. 7, 1988.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	54	3.1	38	89	22	8.3	3.0	0.54	e26	26	131
2	82	49	3.0	39	88	17	6.9	3.3	0.60	e15	57	122
3	85	67	2.9	38	80	14	5.9	6.7	0.78	e19	49	117
4	65	69	2.8	40	64	13	5.8	8.9	1.0	e22	66	104
5	69	69	2.9	54	61	11	4.6	5.8	2.8	e26	90	310
6	83	69	3.0	50	46	11	4.3	4.2	20	e22	91	1,010
7	78	45	2.9	27	44	9.7	3.9	3.2	6.3	e20	237	674
8	84	72	2.7	10	38	9.0	4.4	2.7	4.3	e16	204	394
9	84	49	2.7	7.9	51	8.7	3.9	2.5	3.5	16	113	278
10	93	39	2.7	9.0	49	8.1	3.8	1.8	3.7	13	94	604
11	99	54	2.6	7.5	45	7.3	3.7	2.0	33	21	86	436
12	90	60	2.4	7.3	42	7.7	31	1.9	24	26	95	246
13	94	41	2.6	6.5	41	6.8	30	1.6	17	43	119	184
14	107	17	26	6.5	49	6.8	20	1.6	11	44	434	173
15	97	12	27	6.3	69	6.6	12	1.3	29	34	575	153
16	93	9.3	18	6.1	69	53	8.9	1.6	11	32	328	127
17	90	7.9	12	5.9	48	63	7.2	0.99	7.3	18	265	115
18	88	7.0	28	19	42	60	6.3	1.1	5.0	20	549	120
19	76	9.8	44	19	47	50	5.4	1.1	3.9	55	504	102
20	79	8.8	31	15	44	57	5.2	1.2	3.1	124	276	118
21	65	6.1	26	10	45	60	4.3	1.2	2.6	129	275	127
22	64	4.9	22	8.3	46	65	3.8	1.4	2.3	60	363	111
23	75	4.5	29	7.6	44	67	3.5	1.6	2.0	35	214	95
24	76	4.1	47	6.9	18	66	3.1	1.0	13	23	384	85
25	67	4.0	52	6.4	85	61	2.8	0.86	23	16	256	83
26	61	4.0	61	6.6	111	58	2.3	0.93	34	13	167	343
27	63	3.9	61	50	88	53	2.5	0.98	38	12	144	741
28	69	3.7	60	28	54	56	2.2	0.97	e41	20	144	513
29	91	3.4	62	50	32	54	2.2	0.84	e46	26	122	290
30	81	3.1	66	61	---	43	1.9	1.00	e34	26	94	200
31	67	---	46	61	---	18	---	0.60	---	19	92	---
TOTAL	2,501	850.5	754.3	707.8	1,629	1,042.7	210.1	67.87	423.72	991	6,513	8,106
MEAN	80.7	28.4	24.3	22.8	56.2	33.6	7.00	2.19	14.1	32.0	210	270
MAX	107	72	66	61	111	67	31	8.9	46	129	575	1,010
MIN	61	3.1	2.4	5.9	18	6.6	1.9	0.60	0.54	12	26	83
CFSM	2.57	0.90	0.77	0.73	1.79	1.07	0.22	0.07	0.45	1.02	6.69	8.61
IN.	2.96	1.01	0.89	0.84	1.93	1.24	0.25	0.08	0.50	1.17	7.72	9.60

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	23.3	14.2	16.9	22.6	27.8	29.8	14.1	10.3	32.5	52.4	69.8	72.3
MAX	83.0	76.4	139	91.2	154	232	101	76.1	168	187	264	270
(WY)	(1996)	(1996)	(1998)	(1998)	(1998)	(1998)	(1973)	(1987)	(2003)	(1968)	(1967)	(2004)
MIN	0.36	0.38	1.19	1.58	1.92	0.58	0.00	0.00	0.66	2.13	1.56	4.72
(WY)	(1975)	(1975)	(1985)	(1975)	(2001)	(1974)	(1975)	(1967)	(1964)	(1985)	(1996)	(1974)

## 02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	24,928.0		23,796.99		32.2	
ANNUAL MEAN	68.3		65.0		77.8	
HIGHEST ANNUAL MEAN					1998	
LOWEST ANNUAL MEAN					1985	
HIGHEST DAILY MEAN	725	Jun 22	1,010	Sep 6	2,190	Sep 22, 1979
LOWEST DAILY MEAN	1.3	May 13	0.54	Jun 1	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	2.1	May 8	0.76	May 28	0.00	Jun 18, 1964
MAXIMUM PEAK FLOW			1,100	Sep 6	3,100	Sep 22, 1979
MAXIMUM PEAK STAGE			10.37	Sep 6	12.24	Sep 7, 1988
ANNUAL RUNOFF (CFSM)	2.18		2.07		1.02	
ANNUAL RUNOFF (INCHES)	29.53		28.19		13.92	
10 PERCENT EXCEEDS	146		127		79	
50 PERCENT EXCEEDS	52		30		8.9	
90 PERCENT EXCEEDS	4.0		2.6		1.1	

e Estimated

02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, filtered, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water filtered, mg/L as N (00631)
NOV 19...	1239	2.78	8.0	--	7.1	7.5	309	21.8	--	.70	--	.08	--
JAN 12...	1158	2.68	7.5	--	10.1	7.8	345	11.8	--	.60	--	.06	--
APR 06...	1110	2.24	4.3	--	9.8	7.5	339	15.3	--	.80	--	.06	--
JUN 08...	1140	2.18	4.3	--	6.9	7.3	729	24.0	--	.70	--	.08	--
AUG 10...	1155	5.82	93	--	5.7	7.2	209	25.6	--	--	<.04	--	.07
SEP 07...	1445	9.41	619	761	5.4	6.9	151	25.9	--	--	<.04	--	<.06
SEP 07...	1448	9.41	619	761	5.4	6.9	151	25.9	11	--	--	--	--

Date	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, filtered, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, filtered, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water unfiltered by analysis, mg/L (62855)
NOV 19...	.330	--	.01	--	.610	.65	--
JAN 12...	.690	--	<.01	--	.400	.42	--
APR 06...	.690	--	.01	--	.680	.72	--
JUN 08...	.600	--	<.01	--	.250	.29	--
AUG 10...	--	E.004	--	.84	--	.90	1.47
SEP 07...	--	<.008	--	.49	--	1.15	.83
SEP 07...	--	--	--	--	--	--	--

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

02300200 SOUTH FORK LITTLE MANATEE RIVER NEAR DUETTE, FL.

LOCATION.--Lat 27° 35'25", long 82° 10'57" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.23, T.33 S., R.21 E., Manatee County, Hydrologic Unit 03100203, at bridge on county road, 0.5 mi upstream from Graveyard Creek, 3.7 mi west of Duette, and 12 mi upstream from mouth.

DRAINAGE AREA.--9.4 mi<sup>2</sup>, approximately.

#### WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1960 to current year (crest stage only).

GAGE.--Crest stage partial record gage. Datum of gage is 89.25 ft above National Geodetic Vertical Datum of 1929.

ANNUAL MAXIMUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Annual gage height (ft)	Maximum discharge (ft <sup>3</sup> /s)
Sept. 6	3.94	318

02300200 SOUTH FORK LITTLE MANATEE RIVER NEAR DUETTE, FL.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years February 1962 to current year (incomplete).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
NOV 2003													
19...	1148	-1.29	--	--	2.0	7.0	193	21.4	--	--	--	--	--
JAN 2004													
12...	1120	-1.32	--	--	4.6	7.3	298	11.9	--	--	--	--	--
APR 06...	1026	-1.23	--	--	6.9	7.4	323	15.4	--	--	--	--	--
JUN 28...	1236	.81	120	--	4.8	6.9	273	24.4	23.0	9.00	14.0	6.9	13.0
AUG 10...	1110	1.36	--	--	6.0	7.2	194	25.6	--	--	--	--	--
SEP 01...	1400	1.19	250	--	4.1	6.9	200	26.2	20.0	6.54	9.01	5.46	10.1
07...	1415	3.05	--	760	4.6	6.7	93	25.8	--	--	--	--	--

Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC, wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, fltrd, mg/L as N (00608)	Ammonia, water, unfltrd mg/L as N (00610)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite + nitrate, water, unfltrd mg/L as N (00630)	Nitrite, water, fltrd, mg/L as N (00613)	Nitrite, water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)
NOV 2003													
19...	--	--	--	--	--	.60	--	.30	--	.080	--	.02	--
JAN 2004													
12...	--	--	--	--	--	.50	--	.07	--	.080	--	<.01	--
APR 06...	--	--	--	--	--	.60	--	.05	--	.060	--	<.01	--
JUN 28...	.4	6.60	57.0	199	--	1.4	--	.08	--	.360	--	.02	--
AUG 10...	--	--	--	--	--	--	<.04	--	E.05	--	E.004	--	.60
SEP 01...	.3	8.28	32.8	144	--	--	.14	--	.24	--	.011	--	.42
07...	--	--	--	--	<10	--	--	--	--	--	--	--	--

Date	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfiltered, by analysis, mg/L (62855)	Strontium, water, fltrd, ug/L (01080)
NOV 2003				
19...	.960	.96	--	--
JAN 2004				
12...	.460	.47	--	--
APR 06...	.240	.26	--	--
JUN 28...	.430	.45	--	850
AUG 10...	--	.65	1.42	--
SEP 01...	--	.52	1.43	510
07...	--	--	--	--

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

02300210 SOUTH FORK LITTLE MANATEE RIVER NEAR PARRISH, FL.

LOCATION.--Lat 27° 36'06", long 82° 12'41" (1927 North American datum), in SW 1/4 sec.16, T.33 S., R.21 E., Manatee County, Hydrologic Unit 03100203, on southwest side of bridge, 1.2 mi north of State Road 674, and 13.1 mi east of Parrish.

DRAINAGE AREA.--21.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	6.6	6.0	4.0	26	24	3.7	16	0.65	6.6	e34	21
2	77	7.6	4.2	4.0	23	17	3.3	30	0.77	4.8	24	37
3	52	9.0	3.5	4.0	15	14	6.4	35	0.78	11	39	26
4	36	6.3	3.4	3.9	11	12	9.0	50	0.89	8.8	70	18
5	26	5.9	3.6	4.5	9.0	11	7.7	22	1.0	5.8	113	80
6	19	5.5	3.3	4.4	7.7	11	4.3	10	1.1	5.3	95	637
7	16	5.0	2.9	3.8	6.7	9.5	3.5	6.4	1.1	4.3	161	429
8	15	4.6	3.2	3.5	5.7	11	3.3	5.0	1.1	3.3	198	328
9	13	5.9	4.5	3.5	6.4	7.7	3.1	3.7	1.0	2.3	136	261
10	10	7.8	5.1	4.0	5.6	6.9	3.9	3.6	1.1	1.6	124	374
11	9.9	5.6	3.9	3.9	5.3	6.3	5.4	4.1	5.4	1.1	86	224
12	9.8	4.4	3.1	3.6	5.3	8.3	18	3.0	11	1.3	81	144
13	11	4.2	3.7	3.4	4.6	11	44	2.7	8.9	1.2	102	100
14	9.1	3.8	26	3.3	5.2	7.2	30	2.7	7.9	0.93	410	74
15	8.4	3.8	50	4.1	18	7.9	14	1.9	5.3	0.75	380	51
16	7.0	5.0	20	5.5	15	23	8.5	1.8	7.0	0.92	318	34
17	6.5	6.9	21	4.2	11	74	6.3	3.1	4.7	1.6	215	26
18	6.5	5.4	19	7.5	8.0	52	5.1	2.8	3.0	2.6	221	19
19	6.8	4.2	13	12	6.3	19	4.1	1.9	2.1	13	174	15
20	7.6	4.6	9.9	13	5.6	12	3.5	1.8	1.6	40	135	12
21	8.0	3.7	8.3	9.7	7.4	8.8	4.2	2.5	1.3	71	134	12
22	7.0	3.3	8.0	7.6	7.0	6.9	5.9	1.8	1.0	49	167	12
23	5.8	3.2	7.0	6.3	6.3	5.7	7.3	2.1	0.87	23	120	9.8
24	4.5	3.5	6.6	5.4	5.7	6.4	5.9	3.1	1.3	13	134	8.9
25	4.1	4.1	6.3	4.8	127	7.2	5.8	2.8	1.2	9.0	100	7.6
26	5.7	5.0	5.9	4.5	231	5.8	7.1	1.6	2.5	8.1	66	184
27	7.8	4.1	5.2	4.9	131	4.9	5.8	1.2	7.6	15	43	417
28	6.0	3.6	4.8	5.5	78	7.4	5.5	1.0	23	44	29	275
29	18	3.6	4.5	4.6	43	8.0	3.6	0.79	26	66	21	165
30	10	4.1	4.3	5.8	---	5.0	3.7	0.74	13	73	17	114
31	7.1	---	4.2	7.0	---	4.0	---	0.66	---	47	15	---
TOTAL	542.6	150.3	274.4	166.2	836.8	414.9	241.9	225.79	144.16	535.30	3,962	4,115.3
MEAN	17.5	5.01	8.85	5.36	28.9	13.4	8.06	7.28	4.81	17.3	128	137
MAX	112	9.0	50	13	231	74	44	50	26	73	410	637
MIN	4.1	3.2	2.9	3.3	4.6	4.0	3.1	0.66	0.65	0.75	15	7.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	11.4	8.08	17.7	14.9	16.6	16.5	15.5	9.76	50.0	57.6	103	107
MAX	17.5	14.9	51.6	38.4	28.9	22.4	22.7	18.2	145	77.3	186	176
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2001)	(2002)	(2003)	(2003)	(2001)	(2003)	(2001)
MIN	7.77	5.01	4.70	5.36	4.66	12.1	8.06	4.01	4.81	17.3	32.1	49.4
(WY)	(2003)	(2004)	(2002)	(2004)	(2001)	(2002)	(2004)	(2001)	(2004)	(2004)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2001 - 2004

ANNUAL TOTAL	18,287.0	11,609.65	
ANNUAL MEAN	50.1	31.7	35.7
HIGHEST ANNUAL MEAN			53.7
LOWEST ANNUAL MEAN			24.4
HIGHEST DAILY MEAN	1,110	637	1,210
LOWEST DAILY MEAN	2.9	0.65	0.36
ANNUAL SEVEN-DAY MINIMUM	3.4	0.75	0.75
MAXIMUM PEAK FLOW		712	2,380
MAXIMUM PEAK STAGE		18.27	20.30
10 PERCENT EXCEEDS	133	89	100
50 PERCENT EXCEEDS	13	6.9	8.7
90 PERCENT EXCEEDS	4.5	2.1	3.7

e Estimated



02300300 SOUTH FORK LITTLE MANATEE RIVER NEAR WIMAUMA, FL.

LOCATION.--Lat 27° 38'57", long 82° 17'40" (1927 North American datum), in SE 1/4 sec.34, T.32 S., R.20 E., Hillsborough County, Hydrologic Unit 03100203, on right bank 50 ft upstream from bridge on State Highway 579, 1.0 mi upstream from mouth, and 4.3 mi south of Wimauma.

DRAINAGE AREA.--38.4 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1987 to September 1988; October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	24	20	18	53	57	13	21	5.3	16	46	37
2	134	23	19	16	47	42	12	26	3.1	14	40	37
3	98	26	18	16	39	34	11	45	2.7	14	60	42
4	76	24	17	16	31	30	13	52	2.9	37	e90	34
5	61	45	18	16	27	27	15	47	3.1	21	e150	92
6	51	64	20	15	24	25	13	30	3.6	15	137	740
7	44	33	20	15	22	24	11	20	3.7	13	122	721
8	38	27	21	14	20	23	10	15	3.5	11	249	467
9	36	23	19	15	19	23	10	13	3.7	9.2	240	534
10	34	24	18	14	19	20	9.2	11	3.7	7.7	261	571
11	33	25	17	14	19	18	10	10	3.8	6.6	140	407
12	31	23	16	15	18	19	e24	9.7	12	7.6	100	248
13	31	21	19	15	18	20	e63	8.7	18	8.9	110	156
14	33	19	78	14	21	21	53	8.0	26	10	326	109
15	31	19	86	13	53	19	39	7.8	23	11	632	86
16	28	20	60	14	41	25	26	6.5	16	7.8	417	69
17	28	23	41	14	33	41	20	5.9	14	9.5	336	58
18	25	23	40	22	27	61	16	7.0	11	8.9	265	49
19	24	23	34	32	23	50	15	6.2	8.9	e15	234	40
20	25	23	29	30	21	31	14	5.4	7.3	e70	181	34
21	24	20	28	26	20	23	12	5.1	6.1	122	133	35
22	24	19	24	22	21	19	12	5.6	5.4	82	188	33
23	23	19	23	19	19	17	13	4.8	4.8	55	172	29
24	21	20	23	17	19	16	14	4.6	5.3	33	123	26
25	20	18	21	17	123	17	13	5.3	5.3	23	130	24
26	20	19	20	16	297	16	12	5.2	4.8	25	95	196
27	21	21	19	19	237	14	13	4.5	8.3	46	74	535
28	22	21	18	20	126	13	12	4.2	17	35	68	415
29	53	17	20	18	81	16	11	6.1	24	45	48	263
30	41	16	18	17	---	16	14	6.0	25	54	37	159
31	27	---	17	21	---	14	---	5.7	---	61	33	---
TOTAL	1,354	722	841	550	1,518	791	523.2	412.3	281.3	894.2	5,237	6,246
MEAN	43.7	24.1	27.1	17.7	52.3	25.5	17.4	13.3	9.38	28.8	169	208
MAX	197	64	86	32	297	61	63	52	26	122	632	740
MIN	20	16	16	13	18	13	9.2	4.2	2.7	6.6	33	24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	26.8	29.3	32.7	32.6	33.2	37.0	23.3	14.8	61.7	71.7	144	200
MAX	43.7	43.1	98.3	83.4	52.3	64.3	35.8	26.5	223	105	276	326
(WY)	(2004)	(1988)	(2003)	(2003)	(2004)	(1988)	(2003)	(2003)	(2003)	(2002)	(2003)	(1988)
MIN	18.1	14.9	12.5	12.8	9.03	25.5	13.4	7.23	9.38	28.8	54.2	58.6
(WY)	(2003)	(2001)	(2001)	(2001)	(2001)	(2004)	(1988)	(2001)	(2004)	(2004)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1988 - 2004

ANNUAL TOTAL	30,152	19,370.0	
ANNUAL MEAN	82.6	52.9	58.9
HIGHEST ANNUAL MEAN			87.4
LOWEST ANNUAL MEAN			38.8
HIGHEST DAILY MEAN	1,670	740	4,200
LOWEST DAILY MEAN	10	2.7	2.7
ANNUAL SEVEN-DAY MINIMUM	11	3.2	3.2
MAXIMUM PEAK FLOW		1,010	3,340
MAXIMUM PEAK STAGE		20.81	23.74
10 PERCENT EXCEEDS	189	123	125
50 PERCENT EXCEEDS	31	21	22
90 PERCENT EXCEEDS	17	7.7	8.9

e Estimated

02300500 LITTLE MANATEE RIVER NEAR WIMAUMA, FL.

LOCATION.--Lat 27° 40'15", long 82° 21'10" (1927 North American datum), in NE 1/4 sec.25, T.32 S., R.19 E., Hillsborough County, Hydrologic Unit 03100203, near center of span on downstream side of bridge on U. S. Highway 301, 1.6 mi upstream from Cypress Creek, 4.2 mi southwest of Wimauma, and 15 mi upstream from mouth.

DRAINAGE AREA.--149 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1939 to current year.

REVISED RECORDS.--WSP 1032: 1939(M). WSP 1905: 1961-62, 1965 drainage area.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1965, at site 75 ft downstream at datum 2.17 ft higher; Oct. 1, 1965, to Sept. 30, 1970, at site 75 ft downstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some diversion, 3.3 mi upstream from station by Manatee Power Plant since June 1974. Stage-discharge relation affected by tide on some days. WDR 1992 through WDR 2002 period of record gage height at present datum. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	801	122	50	106	284	187	61	101	13	74	83	207
2	545	111	52	99	306	146	46	62	12	53	145	239
3	380	112	48	99	236	126	40	96	11	53	203	216
4	291	124	48	101	197	e115	37	161	11	132	323	195
5	227	151	50	104	165	101	40	115	15	104	468	289
6	206	329	53	111	149	95	37	84	28	101	470	2,100
7	198	217	54	102	128	90	36	63	37	102	435	4,790
8	182	146	55	79	117	85	34	46	19	63	879	2,850
9	180	142	52	67	112	81	33	37	18	44	1,180	1,870
10	175	114	52	70	122	76	31	31	18	38	1,030	2,090
11	184	110	48	64	117	71	30	29	47	36	644	2,480
12	182	115	42	63	112	69	129	26	80	40	355	1,830
13	173	117	46	61	109	70	232	23	72	41	376	1,320
14	175	94	185	57	114	68	163	21	143	63	774	796
15	182	78	361	59	223	66	117	20	242	63	1,320	522
16	164	75	209	60	210	118	89	18	131	57	1,830	412
17	159	76	152	58	173	266	73	17	84	57	1,500	331
18	158	75	128	87	138	222	61	18	59	48	1,140	277
19	150	79	133	161	126	179	50	19	38	159	945	252
20	140	92	137	126	120	138	43	17	27	558	981	217
21	140	75	124	105	117	126	38	15	21	732	780	184
22	127	67	115	90	114	118	36	16	17	636	694	121
23	126	66	103	80	115	113	34	15	14	288	1,050	100
24	129	66	112	73	107	111	34	14	30	100	835	113
25	125	63	122	68	302	109	31	14	29	57	545	167
26	120	62	122	65	573	108	28	13	40	126	499	496
27	118	64	126	164	674	103	27	13	89	167	303	1,600
28	119	61	123	238	510	95	25	12	104	100	185	2,180
29	168	49	123	141	284	97	24	12	123	110	150	1,570
30	175	45	122	142	---	94	25	14	95	102	111	1,110
31	138	---	121	155	---	83	---	13	---	101	95	---
TOTAL	6,337	3,097	3,268	3,055	6,054	3,526	1,684	1,155	1,667	4,405	20,328	30,924
MEAN	204	103	105	98.5	209	114	56.1	37.3	55.6	142	656	1,031
MAX	801	329	361	238	674	266	232	161	242	732	1,830	4,790
MIN	118	45	42	57	107	66	24	12	11	36	83	100
*PREC	0.80	1.84	2.12	3.65	2.79	1.24	3.33	0.95	10.80	12.36	9.81	11.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	147	75.5	81.3	115	131	147	77.4	50.5	158	292	372	416
MAX	1,160	430	730	483	950	921	439	288	851	1,444	964	1,262
(WY)	(1953)	(1998)	(1998)	(1948)	(1998)	(1998)	(1958)	(1987)	(2003)	(1945)	(1943)	(1960)
MIN	12.0	8.91	14.4	17.2	15.9	12.0	6.78	3.75	5.13	17.9	53.1	39.1
(WY)	(1943)	(1943)	(1962)	(1943)	(1943)	(1945)	(1945)	(1945)	(1951)	(1956)	(1942)	(1976)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1940 - 2004
ANNUAL TOTAL	116,900	85,500	
ANNUAL MEAN	320	234	172
HIGHEST ANNUAL MEAN			411
LOWEST ANNUAL MEAN			40.2
HIGHEST DAILY MEAN	5,200	4,790	11,100
LOWEST DAILY MEAN	30	11	0.92
ANNUAL SEVEN-DAY MINIMUM	38	12	1.2
MAXIMUM PEAK FLOW		5,380	14,000
MAXIMUM PEAK STAGE		17.09	20.14
10 PERCENT EXCEEDS	803	529	390
50 PERCENT EXCEEDS	150	111	60
90 PERCENT EXCEEDS	54	28	17

e Estimated

\* Precipitation, total, inches



Figure 13.--Location of stream gaging stations in the Alafia and Hillsborough River Basins, Tampa Bay and Coastal area.

## 02300700 BULLFROG CREEK NEAR WIMAUMA, FL

LOCATION.--Lat 27° 47'30", long 82° 21'08" (1927 North American datum), in SE  $\frac{1}{4}$  sec.12, T.31 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, near center of span on downstream side of bridge on State Highway 672-S, 0.6 mi downstream from Little Bullfrog Creek, 6.0 mi northwest of Wimauma, and 8.7 mi upstream from mouth.

DRAINAGE AREA.--29.1 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1956 to November 1958; 1959-74 (annual maximum); April 1977 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to September 1974, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	12	6.2	12	57	29	7.6	6.2	4.3	8.4	39	92
2	43	12	6.3	13	62	24	8.4	8.3	2.9	7.2	45	85
3	33	11	6.3	12	42	23	7.2	25	2.7	7.7	52	52
4	25	9.9	6.4	14	30	22	7.1	39	2.9	6.3	76	37
5	22	13	7.1	15	24	19	8.1	49	3.3	9.9	127	155
6	19	29	7.6	11	23	17	5.5	24	2.6	20	131	2,210
7	19	48	8.0	10	21	17	5.7	15	2.8	37	198	2,010
8	17	25	8.0	11	20	16	5.6	12	5.2	22	353	783
9	16	18	7.5	11	19	16	6.1	11	6.4	14	426	450
10	16	14	6.1	10	17	15	5.4	8.8	7.6	10	213	1,350
11	15	12	6.4	11	19	12	6.5	7.7	15	8.4	124	935
12	15	11	6.5	10	21	11	67	7.7	10	7.3	72	372
13	15	11	6.5	10	20	13	63	7.7	13	6.4	58	137
14	15	9.7	34	12	21	13	53	6.1	21	5.5	145	84
15	14	9.0	63	10	37	11	30	6.4	23	5.1	307	64
16	13	11	61	9.5	38	126	21	5.7	29	5.2	361	52
17	12	9.1	32	8.8	28	166	17	5.4	16	7.6	271	45
18	12	8.1	24	28	22	139	15	4.9	13	30	364	40
19	11	9.8	19	33	20	50	13	4.5	9.8	114	149	34
20	11	10	19	32	17	33	10	4.6	7.7	342	104	28
21	11	11	18	23	16	25	10	5.4	6.2	494	83	30
22	11	9.1	16	17	17	19	9.2	5.1	5.2	376	62	25
23	11	8.5	16	15	17	16	8.8	3.7	4.5	106	49	22
24	e11	10	15	14	17	15	8.3	4.3	5.8	53	50	20
25	e9.4	9.1	15	14	125	14	7.5	4.8	5.2	38	39	18
26	e8.1	8.6	14	14	145	12	8.0	3.2	4.3	31	35	283
27	e7.2	8.5	13	55	115	11	6.9	2.7	6.0	30	30	1,080
28	11	8.0	14	67	53	10	e6.3	3.3	14	62	26	845
29	15	6.7	15	50	37	9.6	e6.0	3.7	13	197	25	350
30	11	7.3	13	32	---	7.6	6.0	3.9	11	107	28	132
31	12	---	12	31	---	8.6	---	3.5	---	54	37	---
TOTAL	523.7	379.4	501.9	615.3	1,100	919.8	439.2	302.6	273.4	2,222.0	4,079	11,820
MEAN	16.9	12.6	16.2	19.8	37.9	29.7	14.6	9.76	9.11	71.7	132	394
MAX	63	48	63	67	145	166	67	49	29	494	426	2,210
MIN	7.2	6.7	6.1	8.8	16	7.6	5.4	2.7	2.6	5.1	25	18
CFSM	0.58	0.43	0.56	0.68	1.30	1.02	0.50	0.34	0.31	2.46	4.52	13.5
IN.	0.67	0.49	0.64	0.79	1.41	1.18	0.56	0.39	0.35	2.84	5.21	15.11
*PREC	0.92	0.88	1.39	2.56	2.66	1.66	2.39	2.12	6.08	10.83	7.85	13.40

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

MEAN	30.7	20.7	32.8	36.6	41.0	51.0	25.2	20.1	42.8	53.0	72.0	112
MAX	102	92.3	251	138	233	191	108	86.8	215	187	188	394
(WY)	(1996)	(1998)	(1998)	(2003)	(1998)	(1987)	(1958)	(1991)	(1982)	(1991)	(1995)	(2004)
MIN	5.94	1.17	0.56	2.51	1.86	12.6	4.85	1.39	3.18	10.8	9.28	8.52
(WY)	(1979)	(1957)	(1957)	(1957)	(1957)	(2000)	(2002)	(2000)	(1979)	(1979)	(1993)	(1958)

## 02300700 BULLFROG CREEK NEAR WIMAUMA, FL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	21,610.3		23,176.3			
ANNUAL MEAN	59.2		63.3		44.7	
HIGHEST ANNUAL MEAN					90.0 1998	
LOWEST ANNUAL MEAN					21.9 1980	
HIGHEST DAILY MEAN	2,000	Jan 1	2,210	Sep 6	3,730	Sep 15, 2001
LOWEST DAILY MEAN	6.1	Dec 10	2.6	Jun 6	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	6.6	Nov 29	3.1	Jun 1	0.00	Jun 10, 1958
MAXIMUM PEAK FLOW			2,990	Sep 6	5,200	Sep 11, 1960
MAXIMUM PEAK STAGE			29.45	Sep 6	30.64	Sep 27, 1997
ANNUAL RUNOFF (CFSM)	2.03		2.18		1.54	
ANNUAL RUNOFF (INCHES)	27.63		29.63		20.88	
10 PERCENT EXCEEDS	88		118		83	
50 PERCENT EXCEEDS	20		15		17	
90 PERCENT EXCEEDS	9.1		5.9		5.8	

e Estimated

\* Precipitation, total, inches

## 02300703 BULLFROG CREEK NEAR RIVERVIEW, FL.

LOCATION.--Lat 27° 50'05", long 82° 20'47" (1927 North American datum), in SE $\frac{1}{4}$  sec.30, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, on downstream side of bridge on Symmes Road, and 2.5 mi southeast of Riverview.

DRAINAGE AREA.--36.3 mi<sup>2</sup>.

PERIOD OF RECORD.--July 2003 to current year (tidal high-high and low-low).

GAGE.--Water-stage recorder. Datum of gage is 10.68 ft below North American Vertical Datum of 1988.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum represent gage height tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 22.93 ft, Sept. 7, 2004; minimum, 10.43 ft, June 26,27, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 22.93 ft, Sept. 7; minimum, 10.43 ft, June 26, 27.

GAGE HEIGHT, FEET  
PERIOD JULY TO SEPTEMBER 2003

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	12.13	11.29	12.43	11.96
2	---	---	---	---	---	---	---	---	12.17	11.49	12.43	11.75
3	---	---	---	---	---	---	---	---	11.93	11.39	12.57	11.87
4	---	---	---	---	---	---	---	---	12.05	11.30	12.52	11.84
5	---	---	---	---	---	---	---	---	12.05	11.09	---	---
6	---	---	---	---	---	---	---	---	12.05	11.08	13.73	12.33
7	---	---	---	---	---	---	---	---	12.21	11.15	13.03	---
8	---	---	---	---	---	---	---	---	12.79	11.62	12.70	11.98
9	---	---	---	---	---	---	---	---	13.63	12.80	12.52	11.67
10	---	---	---	---	---	---	---	---	13.73	13.48	12.23	11.49
11	---	---	---	---	---	---	---	---	16.30	---	12.03	11.39
12	---	---	---	---	---	---	---	---	---	---	12.15	11.33
13	---	---	---	---	---	---	---	---	13.19	13.15	12.33	11.21
14	---	---	---	---	---	---	---	---	---	---	12.16	11.44
15	---	---	---	---	---	---	---	---	12.35	12.05	12.17	11.31
16	---	---	---	---	---	---	---	---	12.27	11.79	11.90	11.22
17	---	---	---	---	---	---	---	---	12.25	11.84	11.56	11.14
18	---	---	---	---	---	---	---	---	12.17	11.65	11.80	11.15
19	---	---	---	---	---	---	---	---	12.18	11.59	11.89	11.06
20	---	---	---	---	---	---	---	---	12.19	11.66	11.64	11.05
21	---	---	---	---	---	---	---	---	12.33	11.97	12.06	11.28
22	---	---	---	---	---	---	---	---	12.57	12.11	12.64	11.19
23	---	---	---	---	---	---	---	---	14.71	---	12.68	11.15
24	---	---	---	---	---	---	---	---	13.82	13.08	12.52	11.07
25	---	---	---	---	---	---	---	---	---	---	12.58	11.18
26	---	---	---	---	---	---	---	---	18.08	---	12.86	12.03
27	---	---	---	---	---	---	---	---	---	---	12.97	11.91
28	---	---	---	---	---	---	---	---	14.19	13.54	12.74	11.65
29	---	---	---	---	---	---	12.92	---	---	---	12.89	12.01
30	---	---	---	---	---	---	12.53	11.76	13.09	12.70	13.19	12.86
31	---	---	---	---	---	---	12.31	11.42	12.66	12.21	---	---



## 02300995 THIRTYMILE CREEK NEAR NICHOLS, FL.

LOCATION.--Lat 27° 52'47", long 82° 02'56" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.7, T.30 S., R.23 E., Polk County, Hydrologic Unit 03100204, on downstream side of bridge, 3.8 mi south of Nichols, and 4.6 mi southwest of Mulberry.

DRAINAGE AREA.--3.27 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2000 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage has not been determined.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.62 ft, Sept. 26, 2004; minimum, 8.71 ft, June 5, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.62 ft, Sept. 26; minimum, 10.38 ft, May 31, June 1.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.43	11.08	10.53	10.55	11.40	10.81	10.63	10.95	10.43	10.72	10.77	12.29
2	12.23	11.19	10.52	10.54	11.06	10.75	10.60	10.92	10.42	10.66	10.86	12.46
3	12.06	11.16	10.53	10.55	10.91	10.72	10.62	11.02	10.44	10.74	10.91	11.98
4	11.70	10.84	10.54	10.56	10.81	10.68	10.61	11.01	10.60	10.88	11.18	12.86
5	11.70	10.81	10.55	10.55	10.75	10.66	10.59	10.76	10.68	10.84	11.21	12.97
6	11.71	10.82	10.55	10.54	10.71	10.65	10.58	10.67	10.56	10.82	11.28	---
7	11.68	10.67	---	10.53	10.68	10.64	10.56	10.62	10.68	10.73	10.95	---
8	11.88	10.65	---	10.51	10.63	10.63	10.56	10.59	11.03	10.70	11.19	---
9	12.03	10.63	---	10.53	10.61	10.61	10.57	10.57	10.75	10.78	11.19	---
10	11.89	10.62	---	10.58	10.61	10.60	10.56	10.57	10.91	10.68	11.15	12.63
11	11.92	10.60	---	10.54	10.61	10.58	10.56	10.57	11.26	10.80	10.94	12.46
12	11.72	10.59	10.52	10.52	10.62	10.58	11.08	10.55	11.13	11.24	10.90	12.32
13	11.89	10.59	10.53	10.52	10.61	10.58	10.98	10.53	11.61	10.82	11.49	12.03
14	11.84	10.57	11.08	10.55	10.66	10.57	10.80	10.67	11.60	10.72	12.83	12.01
15	11.58	10.63	10.85	10.56	10.90	10.63	10.72	10.58	11.55	10.62	12.09	12.04
16	11.00	10.81	10.70	10.54	10.73	11.39	10.65	10.51	11.30	10.58	11.96	12.31
17	10.79	10.65	10.68	10.53	10.75	11.52	10.62	10.52	11.05	10.66	11.73	12.33
18	11.01	10.57	10.63	10.95	10.69	11.30	10.59	10.49	10.92	10.74	12.62	12.18
19	11.64	10.68	10.67	10.87	10.64	11.04	10.58	10.49	10.82	11.20	12.36	12.51
20	11.45	10.98	10.62	10.72	10.64	10.89	10.56	10.48	10.75	11.97	12.00	12.44
21	11.39	10.86	10.58	10.65	10.63	10.82	10.55	10.47	10.69	11.89	11.91	12.09
22	11.36	10.59	10.58	10.61	10.62	10.75	10.54	10.46	10.73	11.74	12.42	11.99
23	11.29	10.57	10.59	10.61	10.59	10.69	10.54	10.45	11.02	11.85	12.52	11.67
24	11.51	10.58	10.65	10.61	10.74	10.68	10.54	10.44	10.72	11.65	12.65	12.41
25	11.05	10.57	10.63	10.57	11.80	10.67	10.53	10.43	10.66	10.84	12.59	12.72
26	11.05	10.57	10.57	10.58	11.50	10.68	10.53	10.46	10.65	11.00	12.97	13.81
27	11.27	10.58	10.57	11.32	11.19	10.66	10.56	10.45	11.04	10.94	12.03	13.51
28	11.20	10.80	10.56	11.16	11.01	10.64	10.58	10.44	10.79	11.73	12.34	12.80
29	11.81	10.59	10.56	10.92	10.89	10.61	10.54	10.43	10.74	10.78	12.06	12.83
30	11.63	10.53	10.55	10.83	---	10.62	10.66	10.42	10.80	10.93	11.95	12.79
31	11.58	---	10.55	10.91	---	10.61	---	10.41	---	10.79	11.89	---
MEAN	11.59	10.71	---	10.66	10.83	10.75	10.62	10.58	10.88	11.00	11.77	---
MAX	12.43	11.19	---	11.32	11.80	11.52	11.08	11.02	11.61	11.97	12.97	---
MIN	10.79	10.53	---	10.51	10.59	10.57	10.53	10.41	10.42	10.58	10.77	---



## 02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL

LOCATION.--Lat 27° 53'01", long 82° 06'01" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.10, T.30 S., R.22 E., Hillsborough County, Hydrologic Unit 03100204, near left bank on upstream side of highway bridge, 0.6 mi north of Keysville, 4.0 mi upstream from confluence with South Prong Alafia River, and 29 mi upstream from mouth of Alafia River at Hillsborough Bay.

DRAINAGE AREA.--135 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1950 to September 1992; October 1992 to September 1995 (discharge measurements only); October 1995 to current year.  
Monthly discharge only from May 1950, published in WSP 1304.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 38.56 ft above National Geodetic Vertical Datum of 1929. Prior to May 8, 1974, at same site at same datum; May 8, 1974, to July 13, 1995, at site 300 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	87	35	42	197	153	63	60	20	100	283	634
2	355	76	35	44	201	132	59	56	19	92	436	1,040
3	277	79	35	44	156	117	56	71	20	96	276	684
4	233	72	35	44	132	108	53	108	37	112	291	531
5	187	69	36	45	115	102	52	82	115	126	363	880
6	176	76	38	45	104	98	51	62	86	116	333	7,470
7	159	87	38	44	96	95	50	51	47	99	279	3,230
8	155	86	38	43	88	94	51	43	97	90	531	1,780
9	169	85	38	44	82	90	53	38	83	83	771	1,340
10	158	82	38	52	83	86	52	35	101	73	568	2,690
11	155	78	38	55	92	82	53	33	274	67	394	1,590
12	146	73	37	49	91	77	88	31	374	e170	242	984
13	156	69	38	47	88	73	128	30	521	110	214	800
14	158	67	80	46	86	68	94	28	532	88	1,180	700
15	140	66	134	45	108	67	76	28	369	78	1,310	611
16	114	67	89	44	103	168	63	27	390	68	903	516
17	103	64	77	42	93	343	61	26	323	67	723	468
18	102	55	66	79	88	329	63	25	237	74	1,230	405
19	109	54	59	137	82	205	56	24	173	199	1,220	347
20	107	62	54	118	79	156	50	24	137	545	771	343
21	99	62	50	94	79	131	47	23	120	877	681	302
22	97	52	54	84	80	117	48	22	107	596	1,150	276
23	92	47	51	75	79	105	48	22	114	305	728	242
24	97	43	49	70	83	94	48	21	111	190	688	244
25	88	41	47	67	273	89	45	20	105	137	564	273
26	81	39	44	62	534	87	42	20	93	105	782	1,510
27	83	39	42	120	428	83	39	20	113	117	678	4,880
28	83	39	40	187	266	76	40	20	105	346	462	1,870
29	109	37	39	132	196	70	33	20	92	283	364	1,230
30	115	34	40	115	---	68	30	20	95	283	312	905
31	97	---	40	113	---	67	---	19	---	168	264	---
TOTAL	4,649	1,887	1,534	2,228	4,182	3,630	1,692	1,109	5,010	5,860	18,991	38,775
MEAN	150	62.9	49.5	71.9	144	117	56.4	35.8	167	189	613	1,292
MAX	449	87	134	187	534	343	128	108	532	877	1,310	7,470
MIN	81	34	35	42	79	67	30	19	19	67	214	242
AC-FT	9,220	3,740	3,040	4,420	8,290	7,200	3,360	2,200	9,940	11,620	37,670	76,910

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	143	98.7	113	126	141	163	91.0	79.7	132	194	268	302
MAX	481	299	669	526	712	884	412	467	570	664	669	1,292
(WY)	(1953)	(1954)	(1998)	(2003)	(1998)	(1959)	(1959)	(1979)	(2003)	(1960)	(1959)	(2004)
MIN	38.1	17.2	17.5	21.1	22.5	28.1	18.3	6.90	12.8	51.1	52.4	38.7
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(1999)	(1985)	(2001)	(1951)	(1950)	(1950)	(1990)

## 02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	96,378		89,547		154	
ANNUAL MEAN	264		245		370	1959
HIGHEST ANNUAL MEAN					62.9	2000
LOWEST ANNUAL MEAN					8,200	Sep 11, 1960
HIGHEST DAILY MEAN	4,400	Jan 1	7,470	Sep 6	3.9	May 17, 1952
LOWEST DAILY MEAN	34	Nov 30	19	May 31	4.9	May 27, 1953
ANNUAL SEVEN-DAY MINIMUM	35	Nov 29	20	May 27	9,570	Sep 11, 1960
MAXIMUM PEAK FLOW			9,550	Sep 6	15.86	Sep 11, 1960
MAXIMUM PEAK STAGE			15.18	Sep 6		
ANNUAL RUNOFF (AC-FT)	191,200		177,600		111,900	
10 PERCENT EXCEEDS	639		565		301	
50 PERCENT EXCEEDS	148		88		90	
90 PERCENT EXCEEDS	51		38		33	

e Estimated

## 02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL.—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, ftrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, ftrd, mg/L (00915)	Magnesium, water, ftrd, mg/L (00925)	Potassium, water, ftrd, mg/L (00935)	Sodium, water, ftrd, mg/L (00930)
NOV 20...	0835	2.43	62	--	--	7.2	6.2	601	20.3	--	--	--	--
JAN 14...	1211	2.25	47	--	--	9.6	8.0	791	13.4	--	--	--	--
JUN 08...	0935	2.94	106	100	--	6.0	7.3	394	23.4	30.0	9.60	6.40	28.0
JUN 28...	1337	2.95	103	--	--	5.5	7.4	638	26.3	--	--	--	--
AUG 10...	0915	7.46	576	--	--	5.9	7.4	306	25.8	--	--	--	--
SEP 09...	1312	9.98	1,320	200	763	4.2	7.0	256	26.4	20.8	5.23	6.27	19.4
Date	Chloride, water, ftrd, mg/L (00940)	Fluoride, water, ftrd, mg/L (00950)	Silica, water, ftrd, mg/L (00955)	Sulfate, water, ftrd, mg/L (00945)	Residue on evap. at 180degC wat ftrd mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, ftrd, mg/L as N (00608)	Ammonia, water, unfltrd mg/L as N (00610)	Nitrite + nitrate, water, ftrd, mg/L as N (00631)	Nitrite + nitrate, water, unfltrd mg/L as N (00630)	Nitrite, water, ftrd, mg/L as N (00613)	Nitrite, water, unfltrd mg/L as N (00615)	Orthophosphate, water, ftrd, mg/L as P (00671)
NOV 20...	--	--	--	--	--	.80	--	.12	--	1.30	--	.04	--
JAN 14...	--	--	--	--	--	.60	--	.04	--	1.80	--	.03	--
JUN 08...	18.0	.9	7.60	100	257	1.4	--	.35	--	.900	--	.04	--
JUN 28...	--	--	--	--	--	.70	--	.03	--	.920	--	.03	--
AUG 10...	--	--	--	--	--	--	<.04	--	.30	--	E.005	--	2.32
SEP 09...	22.7	1.8	7.88	30.1	185	--	<.04	--	.19	--	.011	--	4.04
Date	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd by analysis, mg/L (62855)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic, water, unfltrd ug/L (01002)	Cadmium, water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)	Mercury, water, unfltrd recoverable, ug/L (71900)	Nickel, water, unfltrd recoverable, ug/L (01067)	Strontium, water, ftrd, ug/L (01080)
NOV 20...	2.60	3.00	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	1.90	1.90	--	--	--	--	--	--	--	--	--	--	--
JUN 08...	1.40	1.70	--	--	--	--	--	--	--	--	--	--	100
JUN 28...	2.80	3.10	--	--	--	--	--	--	--	--	--	--	--
AUG 10...	--	2.57	1.25	--	--	--	--	--	--	--	--	--	--
SEP 09...	--	4.16	1.03	181	5	.07	.9	1.8	670	.31	<.02	2.30	47.9

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL.—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, unfltrd recover -able, ug/L (01092)
NOV 20...	--
JAN 14...	--
JUN 08...	--
28...	--
AUG 10...	--
SEP 09...	3

Remark codes used in  
this table:  
< -- Less than  
E -- Estimated  
value

## 02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL.

LOCATION.--Lat 27° 47'47", long 82° 07'04" (1927 North American datum), in SW 1/4 sec.9, T.31 S., R.22 E., Hillsborough County, Hydrologic Unit 03100204, on right bank, 12 ft upstream from bridge on county road, 1.5 mi upstream from Halls Branch, 5.0 mi southeast of Lithia, and 7.6 mi upstream from mouth.

DRAINAGE AREA.--107 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 13, 1965, at datum 41.56 ft lower; Oct. 13, 1965, to Apr. 11, 1975, at datum 10.00 ft higher; Nov. 29, 1971, to July 25, 1972, nonrecording gage. Prior to July 25, 1972, at site 12 ft downstream; July 25, 1972, to Dec. 17, 1973, at site 60 ft upstream.

REMARKS.--Records good except those for estimated daily discharges, which are poor. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e410	97	35	61	102	154	47	32	8.8	72	105	447
2	e360	94	35	64	122	125	50	32	7.9	66	117	427
3	e310	94	37	64	132	101	47	34	7.1	73	145	405
4	e280	94	44	64	132	85	46	45	6.6	82	159	380
5	e260	87	52	66	129	75	40	44	7.3	107	167	569
6	234	78	58	67	124	68	37	55	8.6	136	174	2,150
7	222	75	60	64	116	63	42	62	8.3	131	169	1,990
8	208	74	60	57	111	60	47	52	8.0	120	219	1,290
9	196	73	56	50	109	57	47	47	9.2	112	293	1,020
10	185	71	52	50	104	52	46	45	11	105	284	1,060
11	172	65	52	51	94	48	45	47	19	96	254	957
12	162	60	49	50	82	45	73	46	29	89	244	772
13	159	56	45	48	72	43	107	41	41	84	245	656
14	156	55	67	45	64	40	110	39	63	81	418	586
15	151	55	101	44	81	41	97	42	84	76	814	543
16	145	53	96	46	85	107	82	42	94	68	723	505
17	141	51	82	50	79	181	67	41	96	64	836	466
18	137	50	78	72	71	188	62	42	93	65	968	438
19	132	53	75	94	64	157	59	34	86	95	998	407
20	127	60	69	95	60	136	69	25	79	161	836	374
21	124	56	66	84	64	121	71	21	71	252	653	360
22	116	52	64	69	59	105	67	19	66	273	583	348
23	107	49	60	53	57	93	63	17	59	242	563	330
24	101	45	60	42	63	86	67	16	62	209	589	309
25	98	42	59	34	142	80	66	15	74	174	622	286
26	96	40	57	30	199	76	53	14	67	151	507	551
27	91	39	54	67	231	67	44	13	84	144	440	1,790
28	88	41	54	97	215	57	41	12	85	155	410	1,680
29	111	40	52	86	187	50	37	11	87	146	387	1,220
30	108	37	52	69	---	46	35	10	78	131	354	949
31	102	---	56	65	---	46	---	9.7	---	111	335	---
TOTAL	5,289	1,836	1,837	1,898	3,150	2,653	1,764	1,004.7	1,499.8	3,871	13,611	23,265
MEAN	171	61.2	59.3	61.2	109	85.6	58.8	32.4	50.0	125	439	776
MAX	410	97	101	97	231	188	110	62	96	273	998	2,150
MIN	88	37	35	30	57	40	35	9.7	6.6	64	105	286
AC-FT	10,490	3,640	3,640	3,760	6,250	5,260	3,500	1,990	2,970	7,680	27,000	46,150

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

	110	61.9	63.3	84.0	86.3	83.7	62.6	42.6	86.6	137	197	205
MEAN	362	205	339	325	396	403	395	175	456	768	673	776
(WY)	(1995)	(1996)	(1998)	(1998)	(1998)	(1998)	(1973)	(1979)	(2003)	(1968)	(1967)	(2004)
MIN	8.80	3.74	5.36	6.99	6.07	6.53	2.59	0.31	6.07	10.1	8.40	23.0
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(1990)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1964 - 2004

ANNUAL TOTAL	74,960		61,678.5	
ANNUAL MEAN	205		169	102
HIGHEST ANNUAL MEAN				212
LOWEST ANNUAL MEAN				31.0
HIGHEST DAILY MEAN	2,110	Jun 22	2,150	2,430
LOWEST DAILY MEAN	27	May 14	6.6	0.00
ANNUAL SEVEN-DAY MINIMUM	31	May 12	7.7	0.00
MAXIMUM PEAK FLOW			2,630	2,630
MAXIMUM PEAK STAGE			17.81	**17.93
ANNUAL RUNOFF (AC-FT)	148,700		122,300	73,660
10 PERCENT EXCEEDS	446		410	228
50 PERCENT EXCEEDS	128		75	57
90 PERCENT EXCEEDS	50		37	14

e Estimated

\*\*Present datum

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)
NOV 20...	0923	11.48	60	--	6.7	5.8	386	20.0	.60	--	.04	--	.510
JAN 14...	1248	11.19	45	--	10.3	7.8	446	13.4	.50	--	.02	--	.310
APR 06...	0847	10.84	37	--	8.8	7.7	520	16.8	.70	--	.03	--	.320
JUN 08...	1037	10.00	8.0	--	7.4	8.2	581	26.6	1.0	--	.12	--	.680
AUG 10...	1010	14.66	289	--	5.2	7.2	259	25.8	--	<.04	--	.08	--
SEP 09...	1410	16.49	997	764	3.5	7.0	223	26.5	--	<.04	--	.07	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfiltered by analysis, mg/L (62855)
NOV 20...	--	<.01	--	.820	.84	--
JAN 14...	--	<.01	--	.540	.54	--
APR 06...	--	<.01	--	1.00	1.10	--
JUN 08...	--	.03	--	1.10	1.10	--
AUG 10...	<.008	--	.94	--	.98	1.08
SEP 09...	<.008	--	.87	--	.94	.89

Remark codes used in this table:  
 < -- Less than

## 02301500 ALAFIA RIVER AT LITHIA, FL.

LOCATION.--Lat 27° 52'19", long 82° 12'41" (1927 North American datum), in NE $\frac{1}{4}$  sec.16, T.30 S., R.21 E., Hillsborough County, Hydrologic Unit 03100204, near center of span on downstream side of bridge on State Highway 640, 2.0 mi upstream from Little Fishhawk Creek, 4.3 mi west of Lithia, and 16 mi upstream from mouth.

DRAINAGE AREA.--335 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1932 to current year. Monthly discharge only prior to February 1933, published in WSP 1304.

REVISED RECORDS.--WSP 782: 1933(M), WSP 1234: Drainage area. WSP 1274: 1933-35, 1939, 1945, 1947-50.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 7.00 ft above National Geodetic Vertical Datum of 1929. Prior to Aug. 8, 1939, nonrecording gage at site 200 ft upstream; Aug. 8, 1939, to Sept. 5, 1963, water-stage recorder at site 60 ft downstream; Sept. 6, 1963, to Oct. 14, 1965, water-stage recorder at site 50 ft downstream. Prior to Oct. 14, 1965, at datum 2.86 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge from rating curve extended above 21,000 ft<sup>3</sup>/s. Maximum gage height from floodmarks. WDR 1992 through WDR 2002 period of record gage height at present datum. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	884	e219	85	120	354	416	126	87	24	e190	429	e1,170
2	736	e198	82	130	416	376	123	103	26	e186	582	e1,560
3	642	194	81	131	364	329	121	112	26	180	559	e1,630
4	561	186	85	133	327	291	111	186	28	234	544	e1,230
5	501	179	94	135	298	261	105	161	102	255	650	e1,300
6	465	186	106	136	275	245	97	130	125	264	605	e4,710
7	433	184	111	136	252	229	93	129	74	257	582	e9,820
8	412	182	114	130	227	220	100	119	102	237	846	e7,350
9	405	173	114	124	207	207	107	99	103	217	1,010	e4,610
10	394	e170	109	127	199	192	108	89	121	198	1,000	e3,780
11	371	e161	106	139	202	180	108	86	266	178	867	e3,850
12	357	e145	103	131	196	167	165	84	409	262	798	e3,180
13	352	e136	100	123	182	161	299	78	491	313	681	e2,490
14	363	e130	149	120	169	150	260	71	560	188	922	e1,920
15	342	e130	312	116	204	143	219	70	552	167	1,630	e1,530
16	309	e130	260	116	226	249	187	72	556	153	e2,190	e1,300
17	279	e130	215	114	202	578	158	71	470	147	e1,970	e1,130
18	266	e125	191	158	181	579	147	70	388	172	e1,740	e1,030
19	263	e120	176	317	163	466	136	68	316	374	e2,230	e944
20	264	e125	163	294	150	372	127	57	263	790	e2,400	e895
21	245	e130	156	254	148	318	130	48	227	956	e1,930	e862
22	235	e130	157	214	149	283	128	42	202	984	e1,610	e811
23	220	e120	147	185	145	252	123	39	190	731	e1,830	e769
24	210	e110	142	160	151	225	120	35	194	519	e1,500	e719
25	200	e103	141	146	&454	205	122	33	189	423	e1,320	e723
26	185	e99	133	134	&706	194	114	32	e191	354	e1,390	e1,300
27	178	96	127	184	&721	183	98	31	e190	330	e1,420	e3,880
28	e180	95	120	379	583	164	97	30	e190	471	e1,170	e5,250
29	e230	95	117	317	489	148	82	28	e190	535	e923	e4,020
30	e280	89	115	268	---	135	70	27	e190	502	e811	e3,130
31	e230	---	117	245	---	132	---	26	---	419	e763	---
TOTAL	10,992	4,270	4,228	5,416	8,340	8,050	3,981	2,313	6,955	11,186	36,902	76,893
MEAN	355	142	136	175	288	260	133	74.6	232	361	1,190	2,563
MAX	884	219	312	379	721	579	299	186	560	984	2,400	9,820
MIN	178	89	81	114	145	132	70	26	24	147	429	719
MED	309	130	117	136	207	225	122	71	190	262	1,000	1,540
AC-FT	21,800	8,470	8,390	10,740	16,540	15,970	7,900	4,590	13,800	22,190	73,200	152,500
CFSM	1.06	0.42	0.41	0.52	0.86	0.78	0.40	0.22	0.69	1.08	3.55	7.65
IN.	1.22	0.47	0.47	0.60	0.93	0.89	0.44	0.26	0.77	1.24	4.10	8.54
*PREC	0.67	0.80	1.63	3.06	2.93	1.43	2.06	1.43	8.56	10.27	11.40	14.65

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 2004, BY WATER YEAR (WY)

MEAN	342	183	198	245	273	302	192	127	298	513	633	757
MAX	1,374	718	1,463	1,023	1,698	1,874	900	748	1,116	2,696	2,319	4,185
(WY)	(1939)	(1954)	(1998)	(2003)	(1998)	(1959)	(1959)	(1957)	(2003)	(1945)	(1949)	(1933)
MIN	50.9	28.0	31.8	38.7	33.1	35.4	25.0	9.66	27.0	80.6	138	74.5
(WY)	(1941)	(1941)	(2001)	(2001)	(2001)	(1935)	(1945)	(2001)	(1951)	(1956)	(1989)	(1990)

## 02301500 ALAFIA RIVER AT LITHIA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1933 - 2004	
ANNUAL TOTAL	198,406		179,526			
ANNUAL MEAN	544		491		339	
HIGHEST ANNUAL MEAN					845	1960
LOWEST ANNUAL MEAN					121	2000
HIGHEST DAILY MEAN	5,200	Jan 2	9,820	Sep 7	40,800	Sep 7, 1933
LOWEST DAILY MEAN	77	Apr 25	24	Jun 1	4.1	May 30, 2000
ANNUAL SEVEN-DAY MINIMUM	87	May 12	26	May 29	4.2	May 30, 2000
MAXIMUM PEAK FLOW			10,300	Sep 7	45,900	Sep 7, 1933
MAXIMUM PEAK STAGE			22.08	Sep 7	**28.50	Sep 7, 1933
ANNUAL RUNOFF (AC-FT)	393,500		356,100		245,600	
ANNUAL RUNOFF (CFSM)	1.62		1.46		1.01	
ANNUAL RUNOFF (INCHES)	22.03		19.94		13.75	
10 PERCENT EXCEEDS	1,120		1,060		728	
50 PERCENT EXCEEDS	358		191		174	
90 PERCENT EXCEEDS	115		94		54	

e Estimated

&amp; Value was computed from affected unit values

\* Precipitation, total, inches

\*\*Present datum



## 02301600 LITHIA SPRINGS NEAR LITHIA, FL.

LOCATION.--Lat 27°52'00", long 82°13'50" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.17, T.30 S., R.21 E., Hillsborough County, Hydrologic Unit 03100204, 500 ft upstream from Alafia River, and 5.3 mi northwest of Lithia.

PERIOD OF RECORD.--1934, 1935, 1941, 1943, 1946, 1954, 1960 (one discharge measurement in each year); April 1956 to September 1958; June 1966 to current year (discharge measurements only).

GAGE.--Nonrecording gage.

REMARKS.--Total discharge of springs consists of discharge from a major spring and a minor spring into the Alafia River through separate runs and diversion by pumpage from the major spring pool. Discharge is affected by backwater from the Alafia River during medium and high stages. Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

COOPERATION.--Diversion figures were provided by Cargill Fertilizer, Inc. Diversion figures are from estimated daily average derived from reported monthly totals.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 83 ft<sup>3</sup>/s, Oct. 3, 1967; minimum measured, 6.2 ft<sup>3</sup>/s, Feb. 8, 1989.

## DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Major spring instantaneous discharge (cfs)	Time	Minor spring instantaneous discharge (cfs)	Total flow measured (cfs)	Diversion by pumping (cfs)
Oct. 24	1153	53	1400	9.4	62	7.2
Dec. 1	1036	45	1148	8.7	54	7.0
Feb. 9	1056	41	1035	5.4	46	5.8
Apr. 1	1115	37	1203	7.5	44	5.4
May 5	1010	32	1057	5.6	38	6.2
July 1	1220	32	1334	8.4	40	5.2

## 02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL.

LOCATION.--Lat 27° 51'31", long 82° 16'26" (1927 North American datum), in NE $\frac{1}{4}$  sec.23, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100204, on right bank, on wooden platform, 1,300 ft downstream from Bell Shoals bridge, 0.7 mi upstream from Bell Creek, 3.6 mi east of Riverview, and 10 mi upstream from mouth.

DRAINAGE AREA.--376 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--April 1998 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 19.59 ft, Sept. 7, 2004; minimum, 0.76 ft below NGVD, May 31, June 2, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.59 ft, Sept. 7; minimum, 0.31 ft below NGVD, June 2.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	4.07	3.06	1.79	0.64	0.88	0.17	1.39	0.25	2.23	0.89	2.02	1.47
2	3.52	2.55	1.60	0.58	0.83	-0.05	1.64	0.27	1.86	1.46	1.83	1.29
3	3.19	2.23	1.16	0.61	1.68	0.14	1.10	0.28	1.60	1.22	1.61	1.10
4	3.22	1.95	2.41	0.70	1.69	0.16	2.02	0.28	2.13	1.14	2.14	0.95
5	2.72	1.68	2.36	0.66	2.17	0.20	2.31	0.29	2.35	1.15	2.38	0.84
6	2.90	1.59	2.29	0.64	1.72	0.21	1.56	0.29	2.46	1.05	2.48	0.78
7	3.18	1.50	2.32	0.61	---	0.23	1.37	0.27	2.84	0.92	2.12	0.70
8	2.69	1.46	2.28	0.62	1.70	0.30	1.16	0.27	1.37	0.71	1.94	0.64
9	2.72	1.44	2.22	0.57	1.91	0.24	2.25	0.25	1.41	0.68	2.03	0.62
10	2.74	1.39	1.11	0.54	2.52	0.24	3.14	0.25	1.80	0.66	1.83	0.59
11	2.84	1.30	1.94	0.52	2.42	0.20	0.90	0.31	1.92	0.67	1.67	0.51
12	2.86	1.26	2.25	0.49	2.07	0.13	1.32	0.22	2.05	0.66	2.15	0.48
13	2.66	1.21	2.67	0.44	1.71	0.20	1.52	0.18	1.80	0.60	1.88	0.44
14	2.81	1.36	1.46	0.36	2.41	0.49	1.70	0.26	2.81	0.55	2.09	0.41
15	2.70	1.12	2.04	0.39	1.53	1.03	1.71	0.32	1.71	0.64	2.24	0.35
16	2.02	1.00	2.16	0.41	1.87	0.80	1.80	0.23	1.63	0.80	2.85	0.40
17	2.32	0.94	1.68	0.36	2.24	0.63	2.47	0.22	1.57	0.67	2.82	2.18
18	2.23	0.89	2.36	0.57	2.09	0.53	2.94	0.25	0.69	0.55	2.96	2.08
19	1.96	0.88	3.49	0.73	1.63	0.48	2.63	0.96	1.22	0.51	2.78	1.52
20	1.90	0.84	0.98	0.35	0.81	0.42	---	0.84	2.06	0.48	2.30	1.14
21	2.24	0.82	2.05	0.41	1.77	0.38	2.09	0.70	2.52	0.46	2.27	1.02
22	2.34	0.82	2.17	0.34	0.78	0.41	2.19	0.59	2.28	0.41	2.12	0.93
23	2.36	0.77	2.39	0.30	2.27	0.40	2.15	0.45	1.84	0.39	1.13	0.61
24	2.38	0.70	2.73	0.25	2.81	0.35	1.81	0.39	2.43	0.88	1.26	0.58
25	2.30	0.63	3.03	0.23	2.37	0.35	1.91	0.37	3.40	0.67	1.77	0.67
26	2.52	0.56	2.80	0.21	1.85	0.31	1.96	0.34	3.30	2.79	1.70	0.53
27	2.74	0.58	2.79	0.21	1.51	0.29	2.06	0.53	2.77	2.62	1.73	0.52
28	3.47	0.63	2.56	0.21	1.56	0.27	1.51	1.03	2.39	2.08	1.87	0.47
29	1.27	0.70	0.35	0.19	1.75	0.30	1.76	1.10	2.22	1.74	1.54	0.39
30	2.34	0.87	0.81	0.16	1.69	0.42	1.45	0.89	---	---	1.64	0.34
31	1.78	0.72	---	---	1.46	0.34	1.18	0.74	---	---	1.61	0.40
MAX	4.07	3.06	3.49	0.73	---	1.03	---	1.10	3.40	2.79	2.96	2.18
MIN	1.27	0.56	0.35	0.16	---	-0.05	---	0.18	0.69	0.39	1.13	0.34

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.44	0.37	1.83	0.07	2.83	-0.30	2.81	0.59	3.88	1.73	5.22	---
2	1.68	0.31	2.67	0.27	2.90	-0.31	2.80	0.52	3.41	2.34	5.55	4.90
3	2.06	0.29	2.22	0.27	2.88	-0.30	2.95	0.58	3.34	2.13	5.69	5.28
4	1.77	0.23	1.68	0.52	3.08	-0.23	2.92	1.06	3.27	1.84	4.89	4.86
5	1.85	0.17	1.95	0.49	3.21	1.05	2.70	0.77	3.17	2.35	4.11	3.81
6	1.91	0.21	2.35	0.27	2.75	0.24	2.43	0.80	3.15	2.30	---	---
7	2.65	0.21	2.48	0.21	2.41	0.16	2.08	0.95	3.22	2.37	19.59	---
8	3.07	0.92	2.53	0.30	2.36	-0.05	2.01	0.86	4.21	3.00	---	---
9	2.64	0.25	2.37	0.13	2.07	0.20	1.77	0.74	4.23	3.78	---	---
10	2.23	0.19	2.27	0.08	1.73	0.19	1.96	0.62	4.36	3.56	11.27	11.26
11	3.27	0.17	1.76	0.07	1.89	0.51	1.97	0.53	3.78	3.40	11.10	10.61
12	3.90	0.22	1.85	0.12	2.29	1.33	2.17	0.98	5.11	4.33	---	---
13	2.61	0.98	1.48	0.06	2.55	1.68	2.43	0.73	3.34	2.75	7.45	7.41
14	1.28	0.72	1.47	0.03	2.98	1.89	2.45	0.47	4.58	4.48	---	---
15	0.86	0.55	1.61	0.02	2.94	1.76	2.53	0.41	6.27	6.00	5.95	5.23
16	1.20	0.44	1.39	0.02	2.89	1.69	3.10	0.43	6.75	6.28	5.12	4.56
17	1.21	0.31	1.70	0.00	2.79	1.78	2.82	0.42	6.37	5.99	4.57	3.98
18	1.35	0.29	1.84	0.05	2.68	1.37	3.10	1.54	6.33	5.44	4.31	3.60
19	1.67	0.26	2.24	0.00	2.83	1.10	4.22	0.91	6.41	6.28	4.08	3.23
20	1.74	0.21	2.24	-0.04	2.77	0.89	4.58	2.67	7.16	6.87	3.63	3.02
21	2.20	0.25	2.15	0.55	2.76	0.74	4.31	3.91	6.67	6.62	3.38	2.88
22	2.10	0.24	2.42	-0.09	2.45	0.66	3.93	3.60	5.50	5.03	3.57	2.74
23	1.80	0.23	2.23	-0.13	2.16	0.57	3.32	2.56	5.99	---	3.47	2.60
24	1.83	0.20	2.00	-0.15	1.79	0.60	2.63	1.77	5.45	4.57	3.31	2.46
25	2.32	0.19	1.79	-0.17	1.74	0.60	2.48	1.33	4.79	4.21	3.40	2.44
26	2.07	0.18	1.68	-0.19	1.96	0.62	2.37	1.08	5.34	4.62	---	---
27	1.29	0.16	1.40	-0.21	2.04	0.88	2.59	1.14	5.29	4.88	---	---
28	0.67	0.10	1.57	-0.19	2.16	0.82	2.90	1.93	4.73	3.60	15.62	---
29	1.16	0.05	1.61	-0.17	2.41	0.69	2.44	1.77	4.13	3.46	---	---
30	1.55	-0.01	2.21	-0.13	2.57	0.62	3.30	1.74	3.82	2.98	---	---
31	---	---	2.46	-0.26	---	---	3.24	1.21	3.55	2.66	---	---
MAX	3.90	0.98	2.67	0.55	3.21	1.89	4.58	3.91	7.16	---	---	---
MIN	0.67	-0.01	1.39	-0.26	1.73	-0.31	1.77	0.41	3.15	---	---	---

## 02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1998 to current year, incomplete.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located at a gage height of -0.50 ft for the top sensor and a gage height of -1.60 ft for the bottom sensor.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 3,640 microsiemens, June 5, 2000; bottom sensor maximum, 3,530 microsiemens, June 5, 2000; top sensor minimum, 73 microsiemens, Jan. 1, 2003; bottom sensor minimum, 67 microsiemens, Sept. 6, 2004.

TEMPERATURE.--Top sensor maximum, 29.0°C, July 28, 1998; bottom sensor maximum, 29.0°C, July 28, 1998; top sensor minimum, 11.8°C, Jan. 20, 2003; bottom sensor minimum, 11.8°C, Jan. 20, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 700 microsiemens, June 6; bottom sensor maximum, 702 microsiemens, June 6; top sensor minimum, 75 microsiemens, Sept. 8; bottom sensor minimum, 67 microsiemens, Sept. 6.

TEMPERATURE.--Top sensor maximum, 28.7°C, June 24; bottom sensor maximum, 28.7°C, June 24; top sensor minimum, 13.1°C, Dec. 21 ; bottom sensor minimum, 13.1°C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(AT GH -0.50 FT)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	318	293	446	425	461	451	449	438	460	407	454	424
2	334	316	459	442	468	444	452	440	407	375	457	433
3	356	328	475	454	460	453	479	447	432	396	459	440
4	370	355	479	454	460	445	479	472	453	431	458	445
5	382	366	471	441	457	448	483	474	465	441	468	455
6	390	380	464	443	461	445	499	475	468	446	480	465
7	399	384	469	447	474	457	499	486	470	455	488	469
8	405	392	479	456	480	472	510	493	479	458	505	473
9	401	391	486	470	482	476	511	497	485	476	509	486
10	398	386	507	481	486	471	519	506	486	475	520	499
11	410	392	512	493	485	468	526	508	490	478	515	498
12	417	403	515	499	484	475	537	500	498	482	523	500
13	421	411	516	500	481	464	531	504	494	470	517	502
14	421	407	524	508	467	398	538	519	487	471	525	509
15	422	406	532	513	413	360	553	529	471	453	526	507
16	433	409	533	523	402	390	551	538	459	425	508	384
17	437	422	541	527	446	401	546	524	450	433	406	283
18	440	431	536	514	461	442	543	484	457	447	348	303
19	443	430	533	506	465	447	492	430	465	452	412	340
20	449	430	509	485	462	452	451	430	479	460	452	406
21	444	432	495	477	466	457	474	449	490	477	474	448
22	445	433	490	477	473	447	478	458	498	480	500	474
23	452	437	490	469	484	461	499	478	513	491	519	490
24	470	436	496	486	470	462	514	497	524	495	538	513
25	480	453	497	475	485	468	517	506	497	328	537	530
26	468	450	490	480	489	470	532	517	328	297	547	533
27	470	457	486	473	470	447	526	468	354	314	552	541
28	471	454	484	457	461	444	469	365	402	354	555	545
29	459	433	473	454	452	441	421	384	427	394	553	543
30	441	413	465	456	452	436	467	420	---	---	558	544
31	434	405	---	---	455	441	472	460	---	---	562	501
MONTH	480	293	541	425	489	360	553	365	524	297	562	283



## 02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(AT GH -1.60 FT)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	---	---	444	425	---	---	442	435	462	413	477	431
2	362	321	457	442	---	---	444	435	413	382	478	457
3	377	351	469	457	---	---	469	443	437	403	482	465
4	393	376	480	464	---	---	472	468	457	437	487	469
5	404	388	468	456	---	---	472	469	468	448	489	480
6	407	400	461	446	---	---	485	472	468	448	502	489
7	407	399	462	448	---	---	490	482	469	456	510	502
8	---	---	477	456	---	---	498	488	479	460	518	509
9	412	407	485	476	---	---	500	496	483	478	522	515
10	411	400	500	485	---	---	507	500	484	478	525	521
11	419	406	507	500	---	---	518	504	490	480	534	524
12	426	418	509	504	483	479	524	499	495	486	533	527
13	430	420	513	506	479	467	519	498	489	485	530	528
14	431	423	518	510	467	400	524	519	488	472	533	528
15	429	421	528	517	407	365	538	523	472	454	533	524
16	434	426	533	527	401	388	541	538	459	426	524	405
17	437	433	535	530	441	401	539	520	448	434	417	298
18	445	437	532	526	453	441	538	481	456	448	369	320
19	449	442	531	507	455	449	486	426	464	456	430	369
20	453	447	507	492	458	450	446	427	479	460	470	430
21	447	445	493	479	461	455	464	446	488	479	492	470
22	450	447	485	479	468	449	474	464	500	488	507	492
23	453	450	490	472	468	458	493	474	513	500	524	507
24	462	450	493	490	464	460	503	493	523	499	538	524
25	470	459	491	482	477	464	513	503	499	330	541	538
26	461	458	485	481	480	465	526	513	330	299	549	539
27	467	460	481	471	465	452	523	467	360	321	555	545
28	468	457	471	463	452	445	467	368	400	360	555	552
29	457	434	463	460	446	440	422	386	431	399	554	547
30	437	416	460	456	444	436	468	422	---	---	555	548
31	426	405	---	---	442	440	472	462	---	---	553	499
MONTH	---	---	535	425	---	---	541	368	523	299	555	298
1	562	524	538	522	547	540	525	502	391	302	320	213
2	562	531	547	515	545	539	515	499	314	297	224	136
3	562	555	556	435	559	539	532	500	363	302	162	136
4	567	562	517	466	550	508	554	457	377	339	189	162
5	567	557	497	473	644	513	530	426	339	311	192	159
6	561	557	527	486	702	406	513	414	346	322	159	67
7	563	553	550	527	487	420	458	407	339	294	114	74
8	574	562	564	550	496	422	481	455	319	202	84	68
9	580	573	565	545	518	423	497	479	228	208	135	84
10	596	577	564	556	601	423	514	491	270	224	185	135
11	621	593	562	542	694	466	528	513	287	190	194	161
12	597	517	556	530	466	347	569	516	274	189	207	162
13	529	458	559	548	415	330	545	392	281	257	247	207
14	466	432	555	535	373	326	511	436	261	148	274	247
15	496	458	556	537	429	369	535	511	155	140	303	274
16	516	496	562	545	400	371	536	505	153	136	316	301
17	523	511	567	539	462	392	526	502	195	135	327	313
18	545	523	554	540	513	462	532	435	206	175	339	327
19	575	545	558	540	525	512	448	302	192	176	347	337
20	581	575	555	543	529	514	306	233	193	172	359	345
21	581	560	546	538	548	526	272	241	222	191	361	355
22	572	556	545	540	569	547	297	242	227	207	362	357
23	573	564	552	542	571	567	334	296	231	201	362	357
24	570	565	553	547	570	498	414	309	253	231	384	357
25	580	569	554	528	540	501	428	383	272	252	403	379
26	578	573	553	526	545	505	434	426	260	232	405	142
27	573	567	556	535	514	365	430	408	266	232	151	124
28	567	554	562	556	470	366	410	306	302	266	146	122
29	554	535	561	554	508	470	342	307	335	301	232	146
30	543	538	565	534	513	503	346	320	346	335	268	232
31	---	---	549	534	---	---	381	325	352	320	---	---
MONTH	621	432	567	435	702	326	569	233	391	135	405	67









02301718 ALAFIA RIVER AT RIVERVIEW, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.74	-0.75	1.93	-0.53	2.94	-0.75	2.91	-1.23	3.71	-0.21	2.08	0.00
2	1.46	-0.89	2.72	0.02	3.09	-0.93	2.94	-1.32	2.72	-0.30	1.73	-0.14
3	2.13	-0.71	2.31	-0.90	3.09	-1.33	3.09	-1.18	2.82	-0.23	1.77	-0.13
4	1.85	-0.42	1.62	-1.48	3.17	-1.20	2.98	-0.93	2.61	0.37	1.51	-0.55
5	1.91	-0.78	2.02	-1.49	3.34	---	2.67	0.70	2.10	0.15	0.82	-0.21
6	2.02	-0.80	2.47	-1.39	2.91	-1.00	2.37	-0.75	2.28	0.25	6.20	3.14
7	2.72	-0.66	2.63	0.52	2.57	-0.89	1.99	-0.76	2.20	0.00	4.04	3.23
8	3.15	0.99	2.71	-1.34	2.45	-0.82	1.89	-0.14	2.27	0.12	3.87	2.46
9	2.78	-0.60	2.59	-1.07	2.20	-0.63	1.68	-0.02	1.94	-0.31	3.08	1.66
10	2.38	-0.76	2.41	-1.14	1.83	-0.17	1.95	-0.43	1.82	-0.47	2.56	1.17
11	3.21	-0.93	1.91	-0.76	1.95	0.26	2.07	-0.60	1.46	-0.38	2.67	1.15
12	3.70	-0.56	2.02	-0.58	2.01	-0.04	2.11	-0.74	2.96	0.07	2.73	0.81
13	2.36	1.41	1.65	-0.37	2.07	-0.41	2.33	-0.50	2.67	-0.60	2.60	0.51
14	0.93	-1.27	1.52	-0.43	2.44	-0.40	2.55	-0.67	2.90	-0.42	---	---
15	0.43	-1.52	1.80	-0.43	2.43	-0.64	2.66	-0.81	2.68	-0.20	4.06	1.13
16	1.10	-1.16	1.56	-0.90	2.35	-0.93	2.98	-0.70	2.52	-0.11	3.22	0.67
17	1.18	-0.96	1.87	-0.97	2.47	-1.07	1.51	-0.54	2.39	-0.14	2.74	0.27
18	1.38	-1.12	2.00	-1.05	2.51	-1.00	3.10	-0.40	2.57	0.10	2.39	-0.33
19	1.76	-1.12	2.42	-0.77	2.79	-0.77	3.51	0.06	2.26	0.38	2.43	-0.61
20	1.85	-0.96	2.44	-0.95	2.78	-0.76	2.39	0.89	2.17	0.48	1.97	-0.69
21	2.35	-0.79	2.35	-1.05	2.76	-0.45	2.18	-0.09	2.28	0.27	1.56	-1.22
22	2.21	-1.06	2.63	---	2.46	1.20	1.77	-0.35	2.48	0.01	2.32	-0.60
23	1.95	0.41	2.46	-0.75	2.22	-0.59	1.81	-0.35	2.57	0.01	2.30	-0.64
24	1.97	-1.15	2.22	-0.78	1.77	-0.57	1.90	-0.27	2.52	-0.31	2.33	-0.64
25	2.36	-1.18	2.00	-0.80	1.79	-0.24	2.10	-0.41	1.68	-0.56	2.50	-0.69
26	2.12	-0.83	1.83	-0.90	1.86	0.00	2.17	-0.57	2.66	-0.46	5.95	-0.08
27	1.37	-0.35	1.52	-0.64	2.00	-0.34	2.45	-0.93	2.70	-0.53	3.80	2.03
28	1.31	-1.09	1.74	-0.32	2.06	-0.78	2.39	-0.98	2.75	-0.47	3.55	2.28
29	1.31	-1.07	1.78	-0.21	2.48	-1.00	1.28	-0.98	2.83	-0.37	3.17	1.79
30	1.72	-0.91	2.35	-0.12	2.66	-0.86	2.82	-0.93	2.76	-0.34	2.87	1.15
31	---	---	2.61	-0.48	---	---	3.03	-0.87	2.57	-0.25	---	---
MAX	3.70	1.41	2.72	---	3.34	---	3.51	0.89	3.71	0.48	---	---
MIN	0.43	-1.52	1.52	---	1.77	---	1.28	-1.32	1.46	-0.60	---	---

## 02301718 ALAFIA RIVER AT RIVERVIEW, FL.—Continued

PERIOD OF RECORD.--May 1999 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located at a gage height of approximately -1.50 ft for the top sensor and a gage height of approximately -4.85 ft for the bottom probe.

REMARKS.--Specific conductance records fair, temperature records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 41,700 microsiemens, May 11, 2001; bottom sensor maximum, 41,800 microsiemens, Nov. 4, 2000; top sensor minimum, 79 microsiemens, Jan. 1, 2003; bottom sensor minimum, 80 microsiemens, Sept. 7, 2004.

TEMPERATURE.--Top sensor maximum, 32.9° C, Oct. 11, 2002; bottom sensor maximum, 32.7° C, June 15, 2001; top sensor minimum, 11.5° C, Jan. 5, 2001; bottom sensor minimum, 12.4° C, Jan. 20, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 29,600 microsiemens, May 13; bottom sensor maximum, 32,500 microsiemens, Nov. 19; top sensor minimum, 81 microsiemens, Sept. 6; bottom sensor minimum, 80 microsiemens, Sept. 7.

TEMPERATURE.--Top sensor maximum, 31.0° C, June 1; bottom sensor maximum, 30.7° C, July 11; top sensor minimum, 13.8° C, Dec. 22 ; bottom sensor minimum, 13.7° C, Dec. 22.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(AT GAGE HEIGHT OF APPROXIMATELY -1.50 FT)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	362	314	13,600	1,360	16,600	3,360	15,800	5,660	11,700	1,530	15,200	529
2	400	362	13,200	1,870	12,000	4,690	19,300	6,050	6,970	838	14,300	1,250
3	424	395	15,900	2,370	22,500	4,390	17,700	6,020	1,780	506	14,400	1,190
4	850	421	24,500	4,260	24,800	7,020	19,000	6,750	6,940	465	15,800	1,100
5	613	452	23,100	5,170	26,400	6,410	18,900	7,020	13,900	879	15,600	1,290
6	514	468	18,900	4,350	17,300	6,400	18,200	6,190	20,800	1,020	14,400	740
7	7,530	502	18,200	3,380	10,600	4,410	11,800	2,770	11,700	575	3,440	582
8	5,080	557	16,600	2,560	15,900	2,790	12,600	2,170	912	554	773	538
9	3,470	553	12,100	1,260	24,200	3,700	15,000	5,660	3,450	508	609	536
10	3,170	533	4,160	1,100	28,200	4,610	15,800	4,970	4,510	617	597	534
11	4,090	537	13,700	1,160	15,900	4,890	7,360	2,810	3,790	671	784	545
12	1,540	559	18,900	3,270	17,100	4,130	7,410	2,690	1,830	651	7,300	578
13	866	571	23,700	4,040	17,500	4,020	8,740	3,580	9,120	595	12,200	752
14	684	584	16,100	4,250	27,800	4,210	11,700	3,630	20,400	912	18,400	1,210
15	655	588	20,600	4,930	11,800	2,400	15,100	3,230	11,300	1,320	24,200	2,820
16	1,310	605	23,500	5,790	15,200	1,680	16,900	3,540	2,990	1,040	22,500	4,290
17	12,700	882	23,700	5,980	8,660	2,270	27,700	3,820	2,200	628	14,600	396
18	14,300	1,900	26,700	11,300	6,120	1,630	27,700	5,050	849	579	404	343
19	12,700	2,260	27,700	7,100	4,280	1,110	25,400	4,240	2,350	521	440	374
20	13,800	1,710	12,900	4,920	3,400	867	11,600	913	8,390	621	493	418
21	18,000	1,830	12,200	3,540	8,960	826	6,620	636	13,700	1,010	916	474
22	9,260	1,490	16,200	2,570	10,900	756	8,770	635	8,960	656	541	503
23	4,680	868	15,500	2,790	12,700	2,030	7,360	584	3,940	616	577	528
24	3,090	781	19,300	3,200	14,200	2,670	5,280	641	5,830	640	1,260	552
25	6,680	789	20,000	3,580	11,800	1,960	8,110	623	7,370	428	12,400	628
26	13,200	1,020	17,300	3,260	9,800	1,630	11,800	1,320	430	312	15,400	1,220
27	14,300	1,340	19,500	3,740	15,600	2,370	9,400	1,740	356	318	19,700	1,520
28	18,200	2,180	22,400	5,030	20,000	4,700	2,010	718	405	356	19,400	3,050
29	14,900	1,090	7,000	1,850	24,400	6,580	735	430	1,250	405	22,800	4,060
30	10,200	1,050	7,580	2,260	24,500	5,920	6,120	487	---	---	19,200	4,600
31	8,660	1,070	---	---	20,300	5,510	8,280	996	---	---	19,100	4,320
MONTH	18,200	314	27,700	1,100	28,200	756	27,700	430	20,800	312	24,200	343

## 02301718 ALAFIA RIVER AT RIVERVIEW, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (AT GAGE HEIGHT OF APPROXIMATELY -1.50 FT)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7,340	2,940	18,600	6,480	15,400	4,660	19,100	1,610	3,350	364	368	226
2	5,470	1,240	16,800	5,410	18,500	4,180	19,600	1,330	371	302	234	214
3	2,550	802	12,500	1,720	18,700	3,590	19,900	1,300	338	305	261	212
4	1,460	701	6,360	730	20,600	3,390	9,030	802	376	331	309	260
5	1,190	653	8,310	924	21,300	3,230	5,920	688	370	317	319	182
6	5,580	655	---	---	15,200	3,170	1,640	586	341	310	183	81
7	9,440	723	---	---	21,600	2,690	1,940	642	341	264	120	96
8	6,070	754	---	---	26,400	3,440	2,700	660	272	229	131	96
9	5,640	710	---	---	21,900	5,280	3,860	741	246	221	171	123
10	4,580	705	---	---	20,400	5,500	8,410	1,110	264	239	182	163
11	15,400	854	---	---	22,500	4,560	9,520	1,880	296	262	202	166
12	8,560	650	---	---	11,500	1,900	5,720	595	266	199	216	165
13	2,540	564	29,600	7,900	2,470	747	2,620	598	320	266	252	213
14	594	521	27,500	7,540	947	408	7,310	653	324	206	284	251
15	523	479	22,700	7,970	6,240	397	6,050	677	206	169	327	284
16	1,290	503	17,900	8,150	7,510	448	6,970	557	201	169	349	324
17	7,380	717	22,500	6,190	8,000	444	4,220	569	220	200	358	345
18	7,060	817	20,200	6,660	10,700	492	2,880	385	225	192	376	356
19	12,200	753	23,000	6,280	5,960	754	475	287	192	181	395	374
20	16,300	1,510	27,000	7,180	2,720	717	300	218	207	179	409	389
21	18,800	2,560	25,700	7,770	1,110	577	249	220	252	207	426	404
22	17,800	2,620	26,100	8,060	976	325	291	245	265	230	427	406
23	17,200	2,400	20,900	7,730	2,600	636	357	291	236	206	436	411
24	19,400	2,240	26,500	7,890	9,020	760	413	357	276	235	440	420
25	19,500	3,280	25,200	8,320	8,900	1,200	462	406	299	266	462	428
26	18,900	3,610	20,000	7,730	8,940	2,150	508	441	298	247	468	171
27	12,400	3,190	18,000	5,900	8,370	1,070	2,890	450	266	244	171	127
28	21,800	3,770	14,400	5,360	5,110	619	7,270	326	309	266	135	114
29	19,600	4,930	13,200	4,960	16,900	632	381	302	350	309	210	131
30	23,500	6,290	13,900	6,600	19,400	1,400	1,240	320	376	348	242	210
31	---	---	13,200	6,160	---	---	5,530	341	381	350	---	---
MONTH	23,500	479	---	---	26,400	325	19,900	218	3,350	169	468	81

## 02301718 ALAFIA RIVER AT RIVERVIEW, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(AT GAGE HEIGHT OF APPROXIMATELY -4.85 FT)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	361	318	18,500	1,430	26,500	7,230	24,500	7,850	26,100	3,790	24,100	545
2	391	361	21,800	3,500	24,800	10,000	24,900	7,480	22,100	1,060	25,100	1,510
3	409	389	24,300	4,900	27,800	9,840	27,000	6,830	11,400	534	21,300	1,340
4	2,680	409	26,200	14,100	30,100	13,300	27,300	7,860	10,500	456	18,700	1,390
5	768	452	28,900	11,800	30,600	9,920	27,600	7,440	25,600	1,140	18,300	1,580
6	518	456	26,900	7,180	26,200	7,610	24,300	6,130	23,700	1,920	17,700	848
7	8,780	518	23,500	4,560	14,300	4,550	18,000	2,250	17,500	583	4,880	573
8	6,700	698	20,700	3,140	21,400	2,700	24,700	944	1,120	558	756	522
9	3,180	660	17,300	1,320	27,900	3,860	26,100	7,880	5,960	511	586	516
10	3,330	629	10,400	986	30,500	13,400	26,600	4,780	9,380	655	566	514
11	4,700	582	19,100	1,150	29,500	5,840	14,700	2,410	7,410	721	919	515
12	4,640	582	24,600	6,050	20,400	5,200	21,500	3,040	7,470	660	12,600	569
13	1,160	534	26,500	7,650	24,000	6,640	23,500	4,640	16,800	614	16,400	768
14	714	549	23,600	4,890	29,400	9,260	23,500	12,300	23,700	1,290	21,100	1,620
15	615	550	26,800	15,200	23,700	3,090	24,700	6,080	23,000	3,030	24,400	5,020
16	3,420	563	29,400	15,000	24,700	5,800	21,900	4,940	8,120	1,120	24,200	6,870
17	17,400	3,350	28,400	14,500	28,200	3,010	30,600	5,490	4,430	624	19,400	428
18	19,600	4,200	31,500	22,100	12,300	1,870	30,600	9,880	1,560	564	428	344
19	18,800	3,690	32,500	11,400	8,540	965	29,500	5,900	4,260	503	417	366
20	18,300	2,930	23,300	6,690	6,800	460	18,900	1,060	13,000	600	471	408
21	23,300	2,700	18,200	5,280	15,700	350	9,150	686	16,200	1,490	567	461
22	18,200	1,930	20,800	3,150	22,700	440	11,400	648	10,800	633	510	496
23	6,220	785	19,000	3,000	24,100	2,550	9,390	603	5,220	598	545	508
24	6,200	698	22,300	3,610	23,100	4,100	7,400	705	9,910	598	1,180	531
25	10,900	686	21,800	4,300	18,900	2,300	12,700	1,040	10,700	401	8,600	679
26	15,400	1,090	19,400	3,650	15,000	1,510	19,500	4,200	408	293	14,200	1,980
27	15,800	1,710	24,900	5,400	19,700	2,390	21,300	3,030	---	---	21,700	2,770
28	18,400	2,710	26,800	7,570	25,300	7,910	3,560	751	---	---	23,100	7,320
29	16,600	1,190	15,400	2,800	28,500	19,400	4,850	463	---	---	27,000	6,220
30	11,200	1,080	21,700	3,100	29,200	17,400	25,100	514	---	---	26,500	6,830
31	12,800	1,090	---	---	28,000	14,200	26,200	1,410	---	---	25,200	7,340
MONTH	23,300	318	32,500	986	30,600	350	30,600	463	---	---	27,000	344
1	12,000	2,930	22,600	10,100	20,500	5,270	21,400	1,580	7,590	381	369	234
2	6,360	1,200	20,400	6,550	19,800	4,970	24,000	1,430	390	318	241	222
3	2,690	761	15,500	1,720	20,000	4,060	21,400	1,340	354	321	264	221
4	1,570	691	10,600	717	23,500	4,160	14,800	801	394	350	310	264
5	1,570	642	10,200	685	21,400	3,770	9,600	713	390	336	318	188
6	7,670	642	19,700	918	19,800	3,950	9,170	631	363	332	188	83
7	13,000	834	23,700	1,260	23,900	3,640	5,980	678	364	313	115	80
8	8,170	754	23,700	3,270	27,500	4,350	11,700	757	313	269	105	81
9	9,700	717	24,700	4,330	26,800	8,070	12,500	854	279	265	136	104
10	11,600	703	26,000	4,880	26,800	13,700	22,200	2,260	299	279	141	132
11	21,400	844	30,600	9,960	26,500	11,100	18,600	2,040	327	299	152	132
12	10,100	646	31,700	14,700	21,900	2,580	8,140	614	310	253	163	131
13	3,320	559	32,200	25,900	5,200	814	14,600	607	341	298	194	163
14	595	511	30,700	20,200	977	395	17,600	703	346	264	218	194
15	517	473	26,100	10,700	15,000	392	9,820	702	264	210	259	218
16	3,620	499	21,300	9,500	15,200	449	8,100	575	237	211	301	259
17	15,400	720	24,600	7,850	15,600	469	11,700	584	253	237	317	298
18	11,000	805	24,900	7,640	21,100	538	7,280	399	258	230	373	313
19	15,900	855	25,200	8,880	17,300	777	485	302	230	217	394	372
20	18,600	2,780	28,300	10,300	5,800	721	321	239	238	214	406	388
21	23,000	3,080	27,200	10,000	1,050	576	269	241	278	238	422	402
22	20,000	2,940	28,000	11,700	3,720	504	304	269	291	272	419	404
23	18,100	2,910	27,200	11,500	9,930	654	367	304	272	250	433	409
24	22,900	2,720	27,900	11,300	15,600	836	422	367	288	261	436	414
25	24,600	3,820	28,900	11,500	21,100	1,760	464	420	311	280	459	426
26	26,000	5,320	26,300	11,600	22,600	3,670	636	458	310	248	465	170
27	22,400	5,720	23,600	9,890	17,900	1,220	17,600	502	268	245	170	127
28	24,500	4,910	19,800	10,100	8,990	634	13,500	338	311	268	135	113
29	28,300	8,570	18,300	8,090	21,500	686	392	316	352	310	206	127
30	28,400	9,860	17,100	7,680	20,200	1,420	6,400	337	375	349	242	206
31	---	---	17,300	6,370	---	---	9,150	355	381	353	---	---
MONTH	28,400	473	32,200	685	27,500	392	24,000	239	7,590	210	465	80

## 02301718 ALAFIA RIVER AT RIVERVIEW, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(AT GAGE HEIGHT OF APPROXIMATELY -1.50 FT)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.9	24.3	25.4	23.4	21.1	19.2	20.3	18.4	17.5	16.1	18.1	16.8
2	25.0	24.4	24.8	23.1	20.3	18.0	20.0	18.5	17.9	16.7	19.9	17.9
3	25.1	24.1	24.9	23.1	20.4	18.0	20.3	18.9	19.2	16.9	21.0	18.9
4	25.1	24.2	25.1	23.7	20.3	18.5	20.7	19.3	19.7	17.5	21.9	19.7
5	25.3	24.3	25.5	23.7	20.3	19.2	21.8	19.7	20.5	18.2	22.7	20.5
6	25.6	24.4	25.3	24.0	20.2	18.1	22.0	20.0	21.3	19.1	24.3	21.1
7	26.1	24.6	25.8	24.2	19.3	17.6	21.3	17.6	21.0	19.6	23.2	21.9
8	26.4	24.6	25.8	24.3	18.5	17.4	19.6	17.9	20.2	18.4	23.1	21.4
9	26.5	24.8	25.7	23.8	18.9	17.1	19.6	18.1	20.1	17.7	22.0	20.5
10	25.5	24.8	25.4	23.3	19.5	17.9	19.4	16.2	21.1	18.0	21.1	19.4
11	25.7	24.7	26.1	23.5	19.1	17.6	18.9	15.1	20.4	18.3	20.8	18.4
12	26.1	24.9	25.9	23.8	19.8	17.7	19.0	16.3	20.9	18.6	20.6	18.2
13	27.3	25.0	25.8	23.5	19.3	18.3	18.3	16.2	20.9	19.8	20.6	18.0
14	27.0	25.5	25.1	21.7	19.3	18.3	18.0	16.1	20.9	20.1	20.8	18.2
15	27.4	25.4	24.9	23.2	19.5	17.6	17.9	15.8	21.4	20.5	20.6	19.3
16	26.6	24.3	24.8	22.8	18.8	17.2	17.9	15.5	20.8	19.8	21.6	20.3
17	26.5	24.5	24.3	22.9	18.1	16.5	17.7	15.6	20.1	18.5	22.1	20.5
18	26.2	24.1	24.4	23.4	17.5	15.6	17.7	16.8	19.1	17.5	21.8	20.0
19	25.9	23.7	24.2	22.1	17.4	15.9	17.9	16.9	19.0	16.6	21.9	20.1
20	25.6	23.4	22.8	20.7	16.4	14.7	18.4	16.5	18.3	16.4	22.2	20.1
21	25.8	23.1	22.7	20.6	16.1	14.0	18.9	16.1	19.9	17.2	22.6	20.4
22	25.0	22.8	22.3	20.2	16.4	13.8	18.0	15.7	20.8	17.8	22.9	20.6
23	24.8	22.9	22.6	20.3	17.3	14.5	17.5	15.5	21.2	18.5	22.1	19.6
24	24.1	22.4	22.8	20.5	18.0	15.7	17.9	15.3	21.7	19.6	21.4	19.2
25	24.4	22.3	23.2	21.1	17.8	16.3	18.2	15.6	20.2	19.4	21.4	19.5
26	25.5	22.9	24.0	21.4	18.9	16.4	19.3	16.2	20.1	19.0	22.1	19.4
27	26.2	23.6	24.0	22.4	19.5	16.9	19.6	17.6	19.1	17.8	22.0	19.7
28	26.6	24.1	24.5	22.5	18.9	17.0	19.7	17.3	18.5	17.0	22.3	20.1
29	26.7	23.9	22.7	19.2	19.3	17.9	18.6	16.4	17.9	16.4	22.2	20.1
30	26.0	23.4	21.2	18.9	19.3	17.9	17.1	15.9	---	---	23.9	20.0
31	25.0	23.1	---	---	20.2	18.3	16.7	15.8	---	---	23.8	21.0
MONTH	27.4	22.3	26.1	18.9	21.1	13.8	22.0	15.1	21.7	16.1	24.3	16.8
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.2	20.9	26.6	23.6	31.0	28.1	29.5	26.6	27.0	26.4	27.2	26.4
2	22.4	20.5	26.7	24.4	30.5	27.9	29.3	26.8	26.8	26.2	27.1	26.2
3	22.2	20.4	26.5	24.2	30.2	27.6	28.5	26.5	27.3	26.1	27.6	26.3
4	21.7	20.0	25.9	23.0	29.8	27.0	28.3	26.4	27.0	26.4	27.7	26.7
5	22.1	19.9	---	---	28.8	26.8	28.3	26.4	28.4	26.2	26.7	25.0
6	22.1	19.6	---	---	29.3	26.6	28.9	26.2	27.7	26.5	25.0	24.6
7	22.3	20.2	---	---	29.4	26.4	28.8	26.7	27.6	26.7	25.3	24.7
8	23.4	20.8	---	---	29.7	25.9	29.4	26.6	27.3	26.6	25.8	25.3
9	23.7	21.6	---	---	29.5	25.9	29.6	27.1	27.0	26.2	26.4	25.8
10	24.8	21.8	---	---	30.1	26.3	30.1	27.4	27.5	26.0	26.5	25.9
11	24.3	21.6	---	---	30.2	26.9	29.9	27.6	27.6	26.3	26.8	26.2
12	23.4	22.2	26.6	23.5	28.8	26.5	28.4	27.5	27.3	26.0	26.9	26.2
13	22.9	21.8	27.0	23.9	27.3	25.2	28.6	26.7	27.2	26.2	27.2	26.5
14	21.8	20.3	27.1	24.1	26.9	25.6	29.2	26.9	26.3	24.8	27.1	26.8
15	22.0	19.4	27.1	24.2	27.3	25.5	28.7	27.4	25.4	24.4	27.2	26.7
16	22.0	19.2	27.1	24.8	27.8	25.7	28.3	26.4	25.8	24.7	27.7	26.6
17	22.3	19.5	26.8	24.6	28.0	25.8	27.1	26.3	26.5	25.2	28.2	26.7
18	23.1	19.9	27.5	24.7	27.7	25.9	26.6	25.5	27.0	25.8	28.2	26.9
19	22.8	20.6	27.2	24.6	28.8	26.4	25.9	25.3	26.7	25.5	27.8	26.5
20	23.5	20.8	27.7	25.1	29.6	27.0	25.4	25.0	26.9	25.8	26.5	25.9
21	23.1	21.3	27.7	25.1	29.6	27.3	26.3	24.9	27.5	26.4	26.0	25.3
22	23.9	21.4	28.1	25.6	30.2	27.9	27.2	25.2	27.5	26.0	26.2	25.2
23	24.1	21.9	28.2	25.4	29.8	28.0	27.4	25.8	26.6	25.6	26.2	25.0
24	24.6	22.1	28.1	25.1	30.2	28.0	28.0	26.3	26.2	25.8	26.1	25.1
25	25.0	22.8	28.4	25.2	30.3	28.0	28.8	26.5	26.7	25.5	25.9	25.1
26	26.9	23.3	29.4	25.4	29.2	27.9	27.8	27.0	26.7	25.7	25.1	24.4
27	24.8	23.4	29.8	25.4	29.0	27.2	28.1	26.6	27.0	25.9	25.0	24.3
28	25.9	21.9	30.2	26.2	27.5	26.0	27.6	26.2	27.5	26.3	25.4	24.7
29	25.1	22.8	30.4	26.3	29.2	26.0	27.0	26.0	27.7	26.4	26.0	25.3
30	26.7	23.2	30.3	27.2	29.1	26.3	27.9	26.2	27.4	26.7	26.4	25.7
31	---	---	30.7	27.6	---	---	28.1	26.5	28.0	26.8	---	---
MONTH	26.9	19.2	---	---	31.0	25.2	30.1	24.9	28.4	24.4	28.2	24.3

## 02301718 ALAFIA RIVER AT RIVERVIEW, FL.—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (AT GAGE HEIGHT OF APPROXIMATELY -4.85 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.8	24.2	25.6	24.0	21.2	20.3	19.2	18.6	17.3	16.2	18.3	---
2	24.9	24.3	25.2	24.0	21.1	19.2	19.4	18.9	17.3	16.5	18.8	17.7
3	25.0	24.0	25.2	23.5	20.4	19.3	19.4	18.9	18.4	16.7	19.7	18.5
4	25.0	24.1	25.0	24.5	19.9	19.3	19.7	19.0	19.1	17.3	20.8	19.4
5	25.2	24.2	24.9	24.2	20.1	19.4	20.5	19.4	19.6	18.1	21.9	20.0
6	25.4	24.2	25.0	24.1	20.1	18.3	21.3	19.9	20.5	18.9	23.3	20.8
7	25.7	24.4	25.3	24.2	19.2	17.6	20.9	18.8	20.8	19.4	23.1	21.8
8	25.8	24.5	25.8	24.3	18.3	17.4	19.2	18.2	19.7	18.1	23.0	21.2
9	25.8	24.7	25.7	24.1	18.6	17.2	19.1	18.2	19.2	17.6	21.8	20.3
10	25.6	24.7	24.9	23.2	18.8	18.1	19.2	16.9	20.0	17.9	20.9	19.2
11	25.5	24.7	25.6	23.4	18.9	17.7	18.0	16.7	19.7	18.2	20.1	18.2
12	25.8	24.8	25.6	23.9	19.1	18.0	17.6	16.6	20.5	18.5	20.1	18.5
13	26.4	24.9	25.4	23.8	19.0	18.3	17.6	16.6	20.7	19.6	20.7	18.3
14	26.7	25.4	25.3	22.6	18.9	18.5	17.8	16.8	20.7	20.3	20.7	18.5
15	26.5	25.2	24.8	23.9	19.2	18.1	17.8	16.9	21.3	20.4	20.6	19.5
16	25.8	24.2	24.5	23.5	19.1	17.9	18.0	16.4	20.7	19.6	20.6	20.2
17	27.1	24.6	24.2	23.5	18.5	17.0	18.0	16.2	20.0	18.4	21.7	20.4
18	26.9	24.7	24.2	23.9	17.4	15.9	17.4	16.9	19.0	17.4	21.6	19.9
19	26.9	24.7	24.0	22.8	17.2	15.9	17.3	16.8	18.2	16.5	21.7	19.9
20	26.7	23.9	23.5	21.0	17.0	14.7	17.7	16.4	18.3	16.3	21.8	20.0
21	26.1	23.9	22.7	20.7	15.9	13.9	17.3	16.0	19.1	17.1	22.5	20.2
22	25.4	23.3	22.2	20.3	15.9	13.7	17.4	15.6	20.4	17.8	22.3	20.4
23	24.5	22.9	22.5	20.3	16.9	14.5	17.4	15.3	20.4	18.4	21.5	19.4
24	23.9	22.3	22.8	20.6	17.6	15.7	17.2	15.1	21.2	19.5	21.1	19.0
25	24.7	22.2	23.0	21.1	17.7	16.3	17.5	15.7	20.4	19.2	20.9	19.9
26	25.3	22.8	23.9	21.5	18.1	16.5	18.4	16.9	19.8	18.8	21.1	19.6
27	26.3	23.6	23.9	22.6	18.7	17.1	19.4	17.8	---	---	21.5	20.2
28	26.5	24.2	24.3	22.6	18.4	17.6	19.2	17.1	---	---	21.6	20.9
29	25.9	24.0	23.5	20.1	18.4	18.0	17.3	16.2	---	---	22.1	20.9
30	26.0	23.6	21.6	20.3	18.6	18.0	17.7	15.9	---	---	22.2	20.2
31	25.8	23.6	---	---	19.1	18.3	17.8	15.8	---	---	23.3	21.4
MONTH	27.1	22.2	25.8	20.1	21.2	13.7	21.3	15.1	---	---	23.3	17.7
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	23.0	20.8	26.3	23.9	30.2	28.2	29.7	27.2	27.3	26.3	27.1	26.3
2	22.2	20.3	26.4	24.6	30.0	28.0	29.5	26.7	26.7	26.1	27.0	26.1
3	22.1	20.2	26.5	24.2	29.7	27.6	28.6	26.5	27.2	26.0	27.5	26.2
4	21.6	19.9	25.4	23.6	29.6	27.1	28.0	26.4	26.9	26.3	27.6	26.7
5	21.8	19.7	24.8	22.9	28.7	27.0	28.2	26.4	27.8	26.2	26.7	24.9
6	21.6	19.5	24.8	23.0	28.6	26.7	28.5	26.1	27.6	26.5	24.9	24.5
7	21.8	20.1	24.7	23.0	29.5	26.4	28.3	26.7	27.5	26.6	25.2	24.7
8	22.6	20.7	24.8	23.0	29.6	26.1	29.1	26.6	27.2	26.5	25.8	25.2
9	22.7	21.5	25.1	23.1	29.5	26.6	29.6	27.3	26.9	26.2	26.3	25.8
10	23.5	21.7	24.9	23.3	30.0	28.2	30.4	28.2	27.4	26.0	26.4	25.8
11	24.3	21.6	25.6	24.1	30.4	28.7	30.7	27.6	27.4	26.2	26.7	26.1
12	23.3	22.2	26.1	24.5	29.9	27.0	28.8	27.4	27.2	25.9	26.8	26.2
13	22.7	21.6	26.7	25.6	27.9	25.2	29.3	26.6	27.0	26.1	27.1	26.5
14	21.6	20.2	26.8	25.8	26.7	25.5	30.0	27.6	26.2	24.7	27.0	26.7
15	21.6	19.3	26.9	25.8	27.8	25.4	29.0	27.5	25.3	24.4	27.1	26.6
16	21.3	19.0	26.8	25.1	27.5	25.6	28.4	26.4	25.7	24.6	27.6	26.5
17	21.5	19.4	26.6	25.3	27.7	25.7	28.0	26.2	26.4	25.1	28.1	26.7
18	22.1	19.8	26.9	25.4	28.3	25.9	27.1	25.5	26.9	25.7	28.0	26.9
19	22.3	20.5	26.7	25.7	28.2	26.4	25.8	25.3	26.6	25.5	27.7	26.5
20	22.5	20.7	27.1	25.8	28.8	26.9	25.4	24.9	26.8	25.7	26.5	25.8
21	23.2	21.6	27.3	26.1	29.1	27.2	26.2	24.8	27.4	26.3	25.9	25.3
22	23.1	21.7	27.4	26.2	29.5	27.7	27.1	25.1	27.4	25.9	26.1	25.1
23	23.7	22.1	27.7	26.4	29.4	28.0	27.2	25.7	26.5	25.5	26.1	24.9
24	24.4	22.2	27.9	26.4	30.0	28.1	27.6	26.3	26.1	25.7	26.0	25.0
25	24.3	22.8	28.2	26.3	30.6	28.2	28.5	26.3	26.6	25.5	25.8	25.0
26	25.0	23.6	28.1	26.5	30.5	28.3	27.7	26.9	26.6	25.6	25.1	24.3
27	25.0	24.0	28.8	26.1	30.1	27.8	28.3	26.5	26.9	25.8	24.9	24.2
28	25.3	23.1	29.5	27.3	28.3	25.9	28.0	26.1	27.4	26.2	25.3	24.6
29	25.3	23.7	29.5	27.2	29.8	25.9	26.9	25.9	27.6	26.3	25.9	25.3
30	25.6	23.6	29.9	27.5	29.2	27.1	27.4	26.1	27.3	26.6	26.3	25.6
31	---	---	30.2	28.0	---	---	27.6	26.4	27.9	26.7	---	---
MONTH	25.6	19.0	30.2	22.9	30.6	25.2	30.7	24.8	27.9	24.4	28.1	24.2

## 02301719 ALAFIA RIVER NEAR GIBSONTON, FL.

LOCATION.--Lat 27° 51' 24", long 82° 21' 28" (1927 North American datum), in SE  $\frac{1}{4}$  sec. 24, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100204, on left bank, on wooden private dock, 400 ft downstream from Alafia River Marina, 0.8 mi west of Interstate Highway 75, 2.5 mi east of Gibsonton, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--419 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1999 to September 2003 (maximum and minimum residual discharge); October 2003 to September 2004 (daily mean residual discharge).

GAGE.--Water-stage and velocity recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Discharge records poor. Interruptions in record were due to malfunction of velocity sensor. Discharge is computed from stage and velocity record. Discharge is affected by tide. Instantaneous discharge computed from index-velocity and gage height-to-area equation relation. A ninth-order Butterworth low-pass filter is used to yield the residual discharges for the Alafia River station. The residual discharges are not total "freshwater" flow, but are a combination of freshwater flow and water storage caused by higher or lower Gulf of Mexico mean water levels. The residual discharge is used to estimate mean daily discharge values.

EXTREMES FOR PERIOD OF RECORD.--Maximum residual discharge, 6,970 ft<sup>3</sup>/s, Sept. 14, 2001; maximum gage height, 5.42 ft, Sept. 17, 2000; minimum residual discharge, -6,410 ft<sup>3</sup>/s, Sept. 17, 2000; minimum gage height recorded, 1.66 ft below NGVD, Jan. 14, 2000, but may have been less when gage was dry during extreme low tides.

EXTREMES FOR PERIOD OF RECORD OCTOBER 2003 TO SEPTEMBER 2004.--Maximum daily mean residual discharge, 1,190 ft<sup>3</sup>/s, Feb. 26, 2004; maximum gage height, 6.19 ft, Sept. 6, 2004; minimum daily mean residual discharge, -249 ft<sup>3</sup>/s, Nov. 18, 2004; minimum gage height, 2.02 ft below NGVD, Feb. 18, 2004

EXTREMES FOR CURRENT YEAR.--Maximum daily mean residual discharge, 1,190 ft<sup>3</sup>/s, Feb. 26; maximum gage height, 6.19 ft, Sept. 6; minimum daily mean residual discharge, -249 ft<sup>3</sup>/s, Nov. 18; minimum gage height recorded, 2.02 ft below NGVD, Feb. 18, but may have been less when gage was dry during extreme low tides.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,060	231	107	154	352	192	271	333	308	443	---	---
2	862	292	168	208	562	275	193	271	389	435	---	---
3	643	-96	-108	68	491	174	295	556	339	495	---	---
4	603	68	136	246	303	264	337	366	320	532	---	---
5	493	50	266	233	103	230	318	397	480	585	---	---
6	396	210	289	435	347	445	303	426	499	585	---	---
7	450	253	148	121	479	289	259	483	309	204	---	---
8	466	284	177	49	282	271	546	472	242	210	---	---
9	440	480	-39	56	251	246	602	441	215	352	---	---
10	368	172	-13	464	348	333	462	238	179	414	---	---
11	363	140	206	111	293	141	226	89	430	358	---	---
12	398	85	211	86	340	197	327	64	622	378	---	---
13	338	384	-5.7	199	121	144	490	160	645	552	---	---
14	459	72	358	118	136	111	372	209	549	542	---	---
15	482	88	368	127	144	49	440	305	690	511	---	---
16	221	99	192	194	335	482	374	201	587	521	---	---
17	193	23	232	-55	369	692	456	212	521	620	---	---
18	298	-249	233	251	256	664	327	243	561	911	---	---
19	274	263	270	441	169	556	350	220	656	1,390	---	---
20	159	141	326	317	196	426	235	244	687	1,500	---	---
21	208	161	140	251	289	309	290	260	654	1,400	---	---
22	202	70	109	248	205	562	426	317	698	1,230	---	---
23	450	71	149	239	21	363	345	307	560	1,030	---	---
24	251	164	221	150	415	234	378	277	317	922	---	---
25	136	208	285	88	547	209	402	358	462	635	---	---
26	152	191	205	126	1,190	205	408	248	451	---	---	---
27	162	150	155	351	793	97	352	258	611	---	---	---
28	309	433	85	500	673	299	170	370	428	---	---	---
29	398	146	-8.5	262	187	409	150	213	345	---	---	---
30	353	72	156	376	---	343	329	164	371	---	---	---
31	168	---	202	157	---	308	---	177	---	---	---	---
MEAN	379	155	168	212	352	307	348	286	471	---	---	---
MAX	1,060	480	368	500	1,190	692	602	556	698	---	---	---
MIN	136	-249	-108	-55	21	49	150	64	179	---	---	---
MED	363	148	177	199	303	275	341	260	471	---	---	---

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	379	226	168	212	352	545	348	286	881	764	---	724
MAX	379	296	168	212	352	783	348	286	1,292	764	---	724
(WY)	(2004)	(2003)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2003)	(2003)	---	(2003)
MIN	379	155	168	212	352	307	348	286	471	764	---	724
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	---	(2003)



02301719 ALAFIA RIVER NEAR GIBSONTON, FL.—Continued

## SUMMARY STATISTICS

## WATER YEARS 2003 - 2004

HIGHEST DAILY MEAN	4,580	Jun 23, 2003
LOWEST DAILY MEAN	-249	Nov 18, 2003
ANNUAL SEVEN-DAY MINIMUM	62	Nov 14, 2003

## 02301719 ALAFIA RIVER NEAR GIBSONTON, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1999 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the bottom.

REMARKS.--Interruptions in record were due to extreme low tides. Records poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 49,400 microsiemens, June 19, 2001; minimum, 83 microsiemens, Jan. 1, 2003.

TEMPERATURE.--Maximum, 33.8°C, June 17, 2001; minimum, 10.3°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 38,600 microsiemens, Jan. 17, 18, May 6, 7, July 2; minimum, 121 microsiemens, Sept. 6.

TEMPERATURE.--Maximum, 33.5°C, July 10; minimum, 12.0°C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20,000	523	32,900	14,400	31,000	14,200	32,000	13,500	37,300	13,800	37,400	7,730
2	30,300	1,120	34,000	15,000	29,900	14,000	30,900	14,000	32,400	10,600	36,500	12,200
3	30,700	4,260	32,700	15,500	35,200	16,600	30,900	14,600	33,100	6,000	35,200	12,100
4	31,300	5,990	34,100	21,800	35,600	17,900	31,000	15,300	37,500	6,340	35,400	12,800
5	26,500	4,790	32,400	21,400	35,600	15,900	29,800	15,300	37,800	11,900	34,000	13,300
6	30,300	5,970	30,800	16,500	31,100	13,400	29,100	13,600	36,500	14,400	32,700	12,000
7	29,500	8,010	30,900	16,000	34,800	11,600	31,700	11,600	33,800	7,880	26,400	5,530
8	28,100	8,270	32,100	13,200	35,100	13,200	32,800	13,000	24,600	2,210	22,600	1,600
9	26,800	7,720	32,000	10,800	37,900	14,400	34,100	16,400	33,000	8,030	24,000	2,840
10	26,600	7,010	31,000	6,380	38,000	23,600	31,300	12,900	31,900	9,860	22,700	1,540
11	27,200	8,360	35,000	12,000	32,200	10,600	28,700	9,790	29,800	11,500	31,200	1,380
12	26,600	6,640	35,800	17,500	32,100	13,800	31,800	13,100	28,000	7,880	30,000	6,970
13	25,500	6,340	36,000	13,300	32,000	16,800	30,200	10,400	35,700	4,770	32,900	8,550
14	26,400	4,600	35,100	15,100	33,600	12,700	32,800	14,900	37,300	11,500	34,500	11,600
15	20,900	1,610	36,700	18,800	30,000	10,100	32,300	15,100	35,500	10,700	36,700	14,200
16	31,200	6,660	36,800	22,700	31,700	11,400	36,700	10,500	32,900	5,280	35,600	16,800
17	32,800	9,940	34,800	21,500	31,500	8,060	38,600	15,300	32,000	6,760	29,300	4,670
18	30,500	10,200	37,600	24,600	30,600	6,030	38,600	16,100	29,800	4,070	24,000	1,080
19	31,100	12,000	36,200	19,300	29,000	6,160	37,000	15,600	33,700	4,660	29,300	2,890
20	32,900	12,300	31,900	12,600	27,300	5,920	35,500	8,080	34,900	9,080	29,100	5,420
21	33,800	10,000	33,000	13,800	31,400	5,310	36,600	8,170	31,800	10,300	27,500	4,080
22	26,300	7,740	33,300	13,700	32,100	10,200	36,000	8,500	31,800	10,900	22,100	1,570
23	25,000	7,000	34,600	14,500	33,300	11,800	34,900	7,600	28,700	9,710	29,300	1,570
24	30,600	6,950	35,400	15,000	32,400	12,700	34,500	7,450	31,600	9,230	26,100	4,350
25	31,700	8,790	35,000	13,500	30,400	10,500	33,900	11,900	34,000	11,400	33,200	7,680
26	32,200	11,900	34,800	12,800	32,500	11,000	33,300	16,400	22,800	1,560	32,300	11,200
27	32,600	11,800	36,300	15,000	32,400	14,500	31,500	6,820	2,400	725	35,000	12,900
28	32,600	16,500	35,500	16,200	31,800	18,100	22,200	3,690	34,200	735	35,400	15,200
29	30,800	8,410	24,200	10,800	33,100	19,800	36,400	3,640	36,000	2,780	37,200	11,700
30	34,100	10,100	31,800	13,900	31,400	18,100	34,600	8,550	---	---	35,300	16,100
31	33,600	11,700	---	---	27,900	12,900	35,400	10,100	---	---	32,600	10,400
MONTH	34,100	523	37,600	6,380	38,000	5,310	38,600	3,640	37,800	725	37,400	1,080





## 02301721 ALAFIA RIVER AT GIBSONTON, FL.

LOCATION.--Lat 27° 51'34", long 82° 23'04" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.23, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100204, on Williams Park fishing dock on right bank, 100 ft downstream from bridge on U.S. Highway 41, 0.6 mi north of Gibsonton, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--418 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--January 1987 to September 1989 (tidal stage data); October 1998 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum high-high, 15.70 ft, Sept. 6, 2004; minimum gage height, 7.17 ft, Jan. 10, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum high-high, 15.70 ft, Sept. 6; minimum low-low, 7.55 ft, Feb. 18.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.98	9.30	11.48	8.93	10.67	9.13	11.26	9.26	11.28	9.03	11.55	9.07
2	12.05	9.39	11.30	9.38	10.67	9.08	11.49	9.02	11.42	8.60	11.39	8.76
3	11.98	9.51	12.21	9.82	11.59	9.19	11.83	9.00	10.65	8.39	10.79	8.58
4	12.37	9.58	12.19	10.20	12.06	9.53	12.14	9.02	11.54	8.30	11.68	8.99
5	11.95	9.33	12.11	10.11	11.17	9.53	11.27	9.03	11.83	8.68	11.99	9.10
6	12.29	9.66	12.04	9.88	---	---	12.14	8.79	12.00	8.97	12.16	9.31
7	12.65	9.97	12.00	9.70	---	---	11.14	7.62	12.46	9.04	11.76	9.07
8	12.20	9.88	12.08	9.36	---	---	10.89	8.38	10.74	7.67	11.58	8.67
9	12.18	9.92	12.02	8.99	---	---	12.14	9.26	10.90	8.54	11.60	9.08
10	12.14	9.75	---	---	12.37	9.51	12.91	8.60	11.32	9.21	11.26	9.23
11	12.27	9.77	11.73	8.96	10.77	8.99	10.65	8.02	11.46	9.50	11.40	8.29
12	12.41	9.87	12.09	9.34	11.89	8.99	11.00	9.00	11.66	9.22	11.94	8.69
13	12.23	9.66	12.51	9.60	11.55	9.28	11.27	9.24	11.54	9.18	11.68	9.00
14	12.36	10.00	11.17	8.95	12.32	9.97	11.53	9.51	12.55	9.02	11.88	8.59
15	12.29	9.25	11.95	9.62	---	---	11.51	9.89	11.71	9.20	12.10	8.70
16	11.52	9.23	12.01	9.71	11.48	9.46	11.73	9.31	11.20	8.08	12.19	9.18
17	11.90	9.70	11.45	9.46	11.89	9.73	12.36	9.03	11.10	8.14	11.17	9.18
18	---	9.54	12.18	10.28	11.82	9.05	12.67	9.62	9.57	7.55	11.71	8.75
19	11.56	9.56	12.94	10.56	11.43	9.19	11.34	9.00	10.73	8.12	11.88	9.08
20	11.49	9.17	11.76	9.16	---	---	---	8.23	11.87	8.94	11.62	9.26
21	11.92	9.63	11.43	9.52	---	---	11.75	8.23	12.28	9.10	11.72	9.40
22	11.98	9.75	11.99	9.06	---	---	11.98	8.41	12.05	9.33	11.70	8.44
23	12.04	9.87	12.27	9.05	---	---	11.92	8.52	11.49	9.28	10.75	8.41
24	12.03	9.71	12.66	9.14	---	---	11.64	8.78	11.98	9.44	10.96	8.66
25	12.05	9.26	12.85	8.97	---	---	11.73	9.37	12.31	9.82	11.57	10.22
26	12.25	9.17	12.62	8.95	---	---	11.75	9.68	11.81	9.84	11.58	8.64
27	12.57	9.35	12.64	9.28	---	---	11.83	10.02	10.34	9.40	11.62	9.05
28	13.10	9.83	12.46	9.44	11.36	9.21	10.40	8.99	11.06	7.87	11.68	9.15
29	---	8.96	---	---	11.57	9.65	11.30	8.63	11.28	8.17	11.39	9.07
30	12.02	8.95	10.57	8.97	11.61	10.08	10.76	9.25	---	---	11.56	8.68
31	11.26	8.94	---	---	11.27	9.92	10.49	8.68	---	---	12.28	9.32
MAX	---	10.00	---	---	---	---	---	10.02	12.55	9.84	12.28	10.22
MIN	---	8.94	---	---	---	---	---	7.62	9.57	7.55	10.75	8.29



## 02301721 ALAFIA RIVER AT GIBSONTON, FL.

PERIOD OF RECORD.--May 1999 to May 2000 (top and bottom sensors); June 2000 to current year (top, middle, and bottom sensors).

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located 1.10 ft below NGVD, 3.70 ft below NGVD, and 6.50 ft below NGVD.

REMARKS.--Specific conductance records fair, temperature records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 52,200 microsiemens, June 3, 2000; middle sensor maximum, 50,800 microsiemens, June 16, 2001; bottom sensor maximum, 51,900 microsiemens, June 3, 2000; top sensor minimum, 140 microsiemens, Sept.15, 2001; middle sensor minimum, 120 microsiemens, Sept. 6, 2004; bottom sensor minimum, 140 microsiemens, Sept. 15, 2001, Jan. 1-3, 2003.

TEMPERATURE.--Top sensor maximum, 34.1°C, May 12, 2003; middle sensor maximum, 33.6°C, June 14, 2001; bottom sensor maximum, 33.4°C, June 14, 2001; top sensor minimum, 9.0°C, Jan. 1, 2001; middle sensor minimum, 11.1°C, Jan. 4, 2001; bottom sensor minimum, 11.3°C, Jan. 4, 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 42,900 microsiemens, June 29; middle sensor maximum, 43,200 microsiemens, July 17; bottom sensor maximum, 43,000 microsiemens, June 8; top sensor minimum, 230 microsiemens, Aug. 15; middle sensor minimum, 120 microsiemens, Sept. 6; bottom sensor minimum, 255 microsiemens, Aug. 15.

TEMPERATURE.--Top sensor maximum, 33.3°C, July 9; middle sensor maximum, 32.2°C, July 4; bottom sensor maximum, 32.6°C, June 12, 25, 26 ; top sensor minimum, 12.5°C, Jan. 11; middle sensor minimum, 13.0°C, Jan. 11; bottom sensor minimum, 12.9°C, Jan. 11.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT BELOW NGVD)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH										
1	31,200	3,720	35,900	16,800	38,400	18,600	38,400	17,900	38,000	17,000	39,000	11,900				
2	33,000	5,590	36,200	19,500	38,600	19,100	38,800	18,700	36,700	12,900	39,000	13,000				
3	33,700	6,730	36,800	21,100	40,100	22,100	39,200	19,000	36,400	8,740	39,500	14,600				
4	33,100	8,000	37,400	20,100	40,000	22,800	39,300	21,100	39,300	10,800	39,800	15,700				
5	34,200	9,950	36,700	20,000	39,000	20,400	39,000	20,200	40,300	15,900	39,200	16,100				
6	34,600	10,300	36,500	18,900	39,200	19,600	38,900	18,800	40,300	16,900	37,600	15,800				
7	35,000	12,100	36,200	17,300	39,400	19,000	39,500	25,000	37,800	14,000	35,700	12,500				
8	35,600	12,300	37,500	15,300	39,400	15,900	39,600	20,400	37,500	9,660	34,500	10,000				
9	34,700	11,900	37,600	16,000	40,700	18,600	39,200	21,000	38,900	13,500	36,900	11,200				
10	35,800	11,000	37,600	15,000	---	---	38,600	21,000	37,900	14,700	35,200	3,830				
11	35,900	12,700	37,300	16,600	---	---	39,400	20,500	38,300	14,800	36,400	4,620				
12	34,100	12,700	37,300	17,500	---	---	39,100	18,800	38,100	13,800	36,500	11,100				
13	34,200	10,500	37,800	18,500	---	---	38,900	17,000	37,700	11,600	37,200	13,200				
14	34,000	10,700	38,100	16,700	---	---	38,300	15,900	38,300	12,200	38,000	17,100				
15	34,400	8,750	37,700	19,800	---	---	38,800	23,800	34,400	15,200	37,800	17,500				
16	34,800	9,200	38,400	21,200	---	---	39,400	17,700	37,000	9,780	35,500	18,500				
17	35,800	12,200	39,300	20,300	---	---	40,600	13,800	36,400	10,000	33,200	13,400				
18	35,400	12,200	39,400	25,600	---	---	40,400	21,300	36,900	13,600	36,000	6,890				
19	35,500	15,600	38,500	28,400	---	---	38,400	16,900	37,500	10,700	35,600	7,970				
20	37,500	15,800	37,800	20,100	---	---	38,800	13,500	38,300	12,600	36,000	10,400				
21	37,700	16,000	38,100	20,000	---	---	38,900	13,300	38,000	16,800	35,800	12,900				
22	33,600	17,200	38,200	17,000	---	---	36,400	7,600	37,900	15,900	34,400	10,800				
23	34,400	10,800	38,600	19,300	37,600	18,300	11,100	7,040	38,700	16,100	35,000	9,720				
24	35,800	12,100	38,500	20,600	37,200	18,600	12,200	7,830	37,900	15,000	36,100	15,800				
25	36,300	13,400	37,600	20,500	37,900	18,000	33,000	11,400	39,300	13,500	36,900	15,800				
26	36,000	16,400	38,000	19,000	38,400	20,700	33,400	15,900	37,500	4,280	37,600	18,600				
27	35,100	16,300	38,100	21,600	38,200	19,700	32,400	17,900	21,600	3,120	38,000	17,200				
28	35,400	18,600	37,800	23,100	38,700	19,000	36,100	6,960	38,500	1,660	37,100	19,400				
29	34,600	13,800	37,600	20,400	38,400	21,300	36,200	6,720	40,000	4,870	37,800	17,300				
30	35,400	14,800	38,000	19,400	38,200	22,100	37,200	7,300	---	---	39,200	17,400				
31	35,200	15,700	---	---	38,200	21,700	37,800	8,070	---	---	36,700	22,800				
MONTH	37,700	3,720	39,400	15,000	---	---	40,600	6,720	40,300	1,660	39,800	3,830				

## 02301721 ALAFIA RIVER AT GIBSONTON, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT BELOW NGVD)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	35,500	16,600	38,300	25,900	37,900	24,400	42,000	20,800	34,800	9,480	30,100	1,710				
2	36,800	13,400	37,000	27,000	38,500	20,800	41,800	22,100	25,600	3,080	29,100	1,060				
3	36,900	11,000	35,600	19,600	38,900	23,100	41,800	21,700	26,800	2,610	28,200	747				
4	35,500	15,200	35,200	7,030	39,000	21,200	42,000	19,200	27,700	2,430	20,100	827				
5	38,200	11,800	35,800	12,400	38,400	21,700	40,400	14,800	28,700	2,160	17,800	959				
6	38,500	14,000	39,300	10,100	38,900	20,600	40,400	12,400	16,800	1,160	5,640	679				
7	37,700	17,400	39,500	11,200	38,500	20,400	40,800	12,400	27,900	1,270	779	730				
8	37,400	18,200	39,600	11,200	39,000	20,100	41,400	14,000	29,600	1,920	850	770				
9	37,000	14,200	39,600	22,000	38,500	22,400	38,900	12,600	23,800	1,020	940	845				
10	37,600	13,400	39,600	22,400	38,000	24,100	38,300	14,500	24,200	1,130	1,650	938				
11	37,900	14,400	39,100	23,200	36,600	25,000	37,800	24,100	27,000	2,070	3,140	1,010				
12	35,700	20,400	39,500	22,700	37,400	18,600	---	---	25,400	1,660	10,600	1,040				
13	35,100	17,900	39,700	25,600	37,900	15,200	---	---	26,500	2,850	29,800	1,140				
14	28,200	7,010	39,900	26,100	37,100	11,500	---	---	25,600	930	32,100	1,820				
15	35,700	2,230	39,600	28,000	37,600	12,500	35,300	11,200	24,600	230	34,400	5,350				
16	37,400	9,120	39,600	28,600	38,400	12,000	36,400	12,100	22,100	260	26,300	3,440				
17	38,000	15,200	39,700	23,500	37,800	16,300	38,100	11,600	25,600	280	23,900	2,360				
18	37,700	20,000	39,600	27,800	37,900	15,500	35,800	8,920	26,400	300	20,000	1,580				
19	38,200	19,300	39,500	27,100	37,500	14,200	28,600	4,720	25,600	340	25,600	1,850				
20	37,600	19,900	40,200	28,100	36,800	12,300	21,500	2,320	26,300	310	30,300	3,920				
21	37,800	18,400	40,100	25,700	36,700	12,100	19,000	1,460	25,700	330	33,600	1,360				
22	37,700	17,000	39,900	26,800	41,700	11,700	21,200	1,850	26,100	440	34,200	9,090				
23	38,200	21,300	39,400	26,100	42,000	10,300	27,600	3,020	27,800	380	32,400	8,750				
24	38,000	21,400	39,200	23,500	40,800	12,100	28,100	2,930	25,400	410	33,100	8,330				
25	38,800	22,200	38,900	23,700	42,300	15,700	27,000	4,630	25,900	1,070	33,900	7,450				
26	38,000	20,700	38,900	22,600	39,900	18,600	31,000	9,120	29,100	433	33,400	4,440				
27	34,800	16,700	37,700	25,100	40,700	19,900	36,500	8,670	28,300	433	4,610	1,780				
28	37,500	15,000	37,100	27,800	40,700	13,500	37,700	9,370	27,400	635	1,840	1,800				
29	38,500	20,900	37,300	25,700	42,900	18,800	37,700	10,700	24,600	2,280	2,480	1,840				
30	38,800	25,000	37,400	25,900	42,300	22,600	38,600	12,300	29,900	2,790	4,250	1,980				
31	---	---	38,400	27,200	---	---	37,200	10,200	29,800	3,230	---	---				
MONTH	38,800	2,230	40,200	7,030	42,900	10,300	---	---	34,800	230	34,400	679				







## 02301721 ALAFIA RIVER AT GIBSONTON, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT BELOW NGVD)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	27.8	24.7	25.7	24.0	20.5	17.5	19.6	16.4	17.5	16.0	19.2	17.3
2	27.4	24.7	25.9	23.9	19.9	17.3	19.6	16.6	18.8	16.5	20.4	17.8
3	27.2	24.7	24.9	23.8	19.6	17.2	19.7	17.2	19.9	16.7	21.1	18.2
4	27.1	25.9	25.4	24.0	20.5	18.4	20.3	17.6	19.0	16.7	21.8	18.3
5	27.0	26.1	26.3	24.3	20.6	19.3	20.9	18.3	19.9	16.9	22.8	19.1
6	27.5	26.0	26.6	24.8	19.8	17.7	21.1	19.0	21.4	17.1	23.5	20.9
7	27.9	25.5	27.3	24.6	18.0	15.4	19.1	17.9	21.4	18.4	23.8	21.8
8	28.1	25.0	26.6	24.9	17.2	15.6	18.4	15.2	19.9	16.6	23.3	21.0
9	28.5	25.2	25.3	24.3	17.3	15.8	18.1	16.1	19.5	15.9	22.3	19.7
10	27.2	25.4	25.0	23.0	---	---	17.6	14.9	20.7	17.7	21.6	19.3
11	27.3	25.5	24.6	23.3	---	---	16.5	12.5	21.0	17.6	21.6	17.8
12	27.5	25.7	25.0	23.4	---	---	15.6	12.8	22.1	18.2	21.9	19.4
13	28.8	26.0	25.2	24.1	---	---	16.7	14.1	21.7	18.8	21.5	19.6
14	28.8	26.8	24.5	20.8	---	---	16.5	14.5	21.1	18.5	21.1	19.3
15	28.2	26.0	23.9	21.4	---	---	17.3	15.3	20.4	19.4	21.2	19.5
16	27.3	24.3	24.2	22.0	---	---	17.9	15.8	20.3	18.4	21.9	20.1
17	26.9	25.2	24.5	22.4	---	---	17.2	15.6	19.7	18.0	23.3	20.5
18	27.2	25.1	24.5	22.8	---	---	17.0	15.9	18.4	16.5	23.7	20.3
19	27.4	25.4	23.5	22.3	---	---	17.7	16.4	18.4	15.7	25.1	20.6
20	26.1	25.1	22.7	20.3	---	---	17.3	15.9	18.5	16.3	23.4	20.8
21	26.7	24.1	22.9	19.8	---	---	17.5	15.4	19.8	17.2	23.4	20.5
22	26.4	24.3	23.1	20.3	---	---	17.4	15.3	21.0	18.1	24.0	20.9
23	26.8	24.9	23.1	20.7	15.9	14.9	16.9	15.4	21.3	18.4	22.3	18.3
24	26.7	23.5	22.7	21.2	17.0	15.3	17.3	15.1	21.6	19.6	21.1	18.2
25	26.0	23.5	22.6	22.0	17.1	15.2	17.8	15.6	20.7	18.8	21.5	19.3
26	26.7	24.2	23.7	21.6	16.8	14.8	19.3	16.2	21.1	19.0	21.7	19.6
27	27.0	25.0	23.4	22.1	17.3	15.0	20.3	18.4	19.9	17.0	22.0	20.3
28	26.6	25.4	24.4	22.1	17.8	15.0	18.9	16.2	19.0	15.2	23.2	20.4
29	26.3	24.3	22.1	18.1	18.3	15.5	18.3	15.8	19.1	16.1	22.7	21.3
30	26.0	23.4	19.9	15.7	19.2	16.1	17.5	16.8	---	---	23.5	20.5
31	25.8	23.4	---	---	20.4	16.7	16.9	16.0	---	---	24.3	21.9
MONTH	28.8	23.4	27.3	15.7	---	---	21.1	12.5	22.1	15.2	25.1	17.3
1	23.5	20.6	27.6	25.1	31.9	30.0	31.5	29.6	30.1	27.6	30.5	27.0
2	22.5	19.7	27.6	26.0	32.1	30.0	31.8	28.7	29.0	27.2	30.2	26.4
3	22.4	19.4	26.8	25.5	32.1	30.0	31.8	28.7	29.5	27.2	29.9	26.4
4	22.2	19.8	27.6	23.4	31.9	28.9	32.2	29.3	29.0	27.3	29.2	26.5
5	22.5	19.3	27.3	22.9	31.3	29.0	31.9	28.9	30.6	27.2	29.1	25.2
6	22.9	19.8	27.4	24.4	31.7	28.9	32.7	28.8	30.9	28.4	25.5	24.7
7	23.3	20.7	27.4	24.2	32.1	29.1	32.2	29.5	29.7	27.7	25.8	24.8
8	23.9	21.6	27.6	24.6	31.3	28.6	32.6	29.6	29.4	27.2	25.9	25.3
9	25.1	22.9	26.8	24.9	32.2	29.1	33.3	30.9	29.0	27.2	26.9	25.7
10	25.9	23.3	26.2	24.6	32.4	29.7	32.9	31.1	29.9	26.8	27.1	25.9
11	25.6	23.6	26.4	24.9	32.3	29.9	32.5	31.0	30.0	27.8	27.5	26.2
12	24.3	22.8	27.3	25.0	32.4	30.3	---	---	29.9	27.2	27.5	26.2
13	23.7	21.9	27.5	25.2	32.0	30.0	---	---	30.2	26.5	28.2	26.5
14	21.9	19.5	27.4	25.2	30.9	28.4	---	---	29.1	25.7	28.1	26.7
15	23.4	18.6	28.1	24.9	30.9	27.8	31.1	29.7	28.6	25.0	28.1	26.6
16	24.1	19.5	27.5	25.4	30.6	28.5	31.1	28.3	28.4	24.7	28.5	26.6
17	23.9	19.8	28.0	25.2	31.0	28.4	30.7	27.9	28.9	25.3	30.9	27.0
18	23.7	20.1	28.4	25.1	30.6	28.6	29.9	27.1	28.9	25.7	30.9	27.3
19	24.5	20.5	28.4	25.0	31.6	29.5	29.1	26.2	29.1	25.8	29.9	27.3
20	24.9	20.6	28.7	25.5	32.1	29.7	28.3	25.6	29.4	25.9	28.6	26.4
21	24.0	21.6	29.2	26.1	32.1	29.7	28.5	25.4	29.0	26.5	28.3	25.8
22	25.4	21.7	29.4	26.9	32.3	30.0	29.5	26.0	29.8	26.6	28.2	25.8
23	26.3	22.4	29.6	27.5	32.9	30.2	31.2	27.1	29.6	26.5	28.1	26.2
24	26.2	23.1	29.3	27.4	32.5	30.2	30.7	28.0	29.9	26.4	27.7	26.1
25	25.4	23.0	30.1	27.5	33.0	30.6	31.4	28.2	29.8	26.8	27.5	26.0
26	26.6	24.0	30.7	27.9	32.9	30.6	30.1	29.0	29.9	27.0	26.7	24.6
27	26.1	24.1	31.1	28.0	32.2	30.1	30.3	29.0	29.9	26.3	25.7	24.4
28	26.1	23.0	31.2	28.7	31.5	29.3	29.6	28.0	30.3	26.3	26.0	24.7
29	25.8	23.5	31.7	28.7	31.3	29.5	29.8	28.4	30.2	27.1	26.7	25.3
30	27.3	24.1	31.8	29.6	31.3	29.1	30.1	28.4	30.3	27.2	27.6	25.8
31	---	---	31.7	29.8	---	---	30.8	28.5	31.6	27.1	---	---
MONTH	27.3	18.6	31.8	22.9	33.0	27.8	---	---	31.6	24.7	30.9	24.4

## 02301721 ALAFIA RIVER AT GIBSONTON, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(3.70 FT BELOW NGVD)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.0	25.0	---	---	19.9	17.9	18.4	16.0	16.6	16.1	18.5	17.8
2	27.6	25.1	---	---	19.9	17.9	18.1	16.3	17.1	16.2	18.6	17.8
3	27.4	25.7	---	---	19.5	18.0	18.6	16.8	18.5	16.5	19.0	17.9
4	27.1	26.3	---	---	19.9	18.7	19.0	17.0	18.4	16.4	19.6	18.1
5	26.9	26.5	25.8	24.5	20.4	19.2	20.5	17.6	18.1	16.6	21.2	19.0
6	27.5	26.7	26.2	24.7	20.0	17.8	20.4	18.7	20.7	16.9	23.0	20.3
7	27.5	26.5	26.6	24.8	18.2	16.0	19.3	17.7	20.8	19.4	23.4	21.2
8	27.7	25.6	26.2	25.1	17.4	16.1	18.4	16.0	20.1	17.4	22.6	21.6
9	28.1	26.0	25.4	24.9	17.2	16.1	17.7	16.0	18.6	17.2	22.1	20.9
10	27.2	26.1	25.2	23.1	18.9	16.5	17.8	16.4	19.4	17.3	21.4	19.6
11	27.4	25.9	24.2	23.6	18.7	17.1	16.5	13.0	19.5	17.5	21.2	20.0
12	27.6	26.1	24.8	23.8	17.6	16.8	15.2	13.4	20.5	17.7	21.3	19.9
13	28.3	26.3	25.0	24.2	17.5	16.8	15.6	14.6	20.8	18.1	21.1	19.5
14	28.8	27.3	24.7	21.4	17.8	16.9	16.2	14.7	20.1	18.2	20.8	19.4
15	28.4	26.4	23.4	21.9	18.0	16.9	16.7	15.2	20.3	19.1	20.7	19.4
16	27.6	25.4	23.8	22.0	17.5	16.9	16.8	15.5	19.7	18.9	21.0	19.7
17	26.9	26.3	24.3	22.7	17.9	17.0	17.0	15.6	19.8	18.4	22.6	20.5
18	27.0	25.9	24.3	23.0	17.5	16.7	16.7	15.7	18.7	16.5	21.7	20.4
19	27.3	25.7	23.4	22.3	17.2	16.1	17.3	16.0	17.6	16.3	21.9	20.6
20	26.2	25.6	23.1	21.3	16.5	15.0	17.1	16.1	17.7	17.1	22.7	20.9
21	26.7	25.6	22.8	20.6	15.5	14.0	16.9	16.1	19.2	17.0	23.3	21.1
22	26.6	24.9	23.0	20.9	14.8	14.1	17.0	16.0	20.2	17.7	22.9	21.5
23	26.6	25.4	22.9	21.2	15.5	14.2	16.6	15.7	20.5	18.1	22.5	20.6
24	26.7	24.7	22.5	21.5	16.5	14.9	16.6	15.6	20.8	18.9	21.4	20.4
25	26.1	24.1	22.6	21.9	16.6	15.3	16.6	15.6	20.7	18.7	21.4	20.4
26	26.5	24.6	22.6	21.8	15.8	15.1	18.0	15.7	20.0	18.8	21.6	20.2
27	26.9	25.3	23.1	21.9	16.2	15.1	19.3	17.3	20.1	17.2	21.3	20.1
28	26.4	25.5	24.3	22.1	16.5	15.1	19.1	17.5	19.1	16.4	22.2	20.2
29	26.0	24.8	22.6	19.0	16.4	15.4	18.2	17.1	18.6	18.0	22.2	20.8
30	---	---	19.7	17.4	17.0	15.7	17.7	17.0	---	---	23.2	20.5
31	---	---	---	---	17.3	15.9	17.5	16.4	---	---	23.9	21.9
MONTH	28.8	24.1	---	---	20.4	14.0	20.5	13.0	20.8	16.1	23.9	17.8
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	23.6	21.4	27.2	25.0	31.8	30.6	31.0	30.2	29.9	27.6	30.2	27.0
2	22.6	20.8	27.5	25.9	32.0	30.7	31.2	29.5	29.2	27.3	30.2	26.4
3	22.4	20.4	26.8	26.1	32.1	30.8	31.7	29.6	29.3	27.3	30.1	26.3
4	22.2	20.3	27.3	24.8	31.6	30.1	32.2	29.6	29.0	27.3	30.3	26.6
5	22.4	20.4	26.7	24.7	31.3	30.0	31.5	30.6	30.1	27.1	30.2	25.2
6	22.6	20.8	26.4	24.9	31.6	30.0	31.9	30.7	29.8	28.2	26.6	24.7
7	23.1	21.0	26.3	25.0	31.5	30.2	31.4	30.9	29.5	27.6	25.7	24.7
8	23.8	21.9	27.2	25.2	31.0	30.2	31.6	31.1	29.3	27.4	25.9	25.2
9	24.6	22.9	26.4	25.4	30.9	30.0	31.6	31.1	29.4	27.2	26.8	25.6
10	25.0	22.9	26.0	25.1	32.0	30.0	31.7	31.1	29.6	27.1	27.1	25.8
11	25.5	22.9	26.1	25.5	31.6	30.1	31.5	31.1	29.7	28.3	27.5	26.2
12	24.3	23.1	26.3	25.6	31.6	30.1	---	---	30.1	27.7	27.5	26.1
13	23.7	22.0	26.6	25.7	31.5	30.4	---	---	30.5	26.5	28.1	26.4
14	22.0	19.7	27.2	25.5	30.8	29.7	---	---	29.2	25.7	28.0	26.6
15	21.9	19.6	27.6	25.2	30.8	29.4	31.2	30.1	29.0	25.1	28.1	26.9
16	22.1	20.3	27.5	25.8	30.4	29.7	31.2	28.5	28.8	24.7	28.1	26.6
17	23.0	20.5	27.7	25.6	30.4	29.4	30.8	28.2	28.8	25.2	30.8	26.9
18	23.3	20.8	27.8	25.7	30.2	29.6	29.9	27.4	29.0	25.7	29.8	27.2
19	23.3	21.0	27.7	26.0	31.3	30.0	29.3	26.1	29.0	25.7	29.7	27.2
20	23.9	21.6	28.1	26.5	31.9	30.6	28.5	25.5	29.2	25.9	28.6	26.4
21	23.6	21.9	28.3	26.6	31.9	30.9	28.5	25.4	29.1	26.4	28.3	25.8
22	24.5	22.5	28.8	27.2	31.8	31.0	28.5	26.2	29.6	26.6	28.2	26.0
23	24.6	23.2	29.2	27.6	31.8	31.3	29.1	27.2	29.8	26.4	28.1	26.7
24	25.1	23.0	28.8	27.7	31.9	31.3	29.2	28.0	29.9	26.4	27.7	26.5
25	25.1	22.9	29.9	27.9	31.9	31.3	30.5	28.3	29.9	27.0	27.7	26.2
26	26.0	24.1	30.2	28.3	32.0	31.5	29.8	29.0	29.9	27.2	26.8	24.5
27	26.0	25.5	30.8	29.0	31.9	31.4	30.1	28.9	29.9	27.3	25.6	24.3
28	25.6	24.5	31.2	29.1	31.4	30.8	29.5	28.0	30.3	26.7	25.9	24.6
29	25.0	24.2	31.4	29.2	31.0	30.1	29.6	28.3	29.9	27.3	26.6	25.2
30	26.0	24.3	31.9	29.5	31.1	30.3	29.8	28.4	30.2	27.3	27.4	25.7
31	---	---	31.7	30.0	---	---	30.2	28.7	30.7	27.2	---	---
MONTH	26.0	19.6	31.9	24.7	32.1	29.4	---	---	30.7	24.7	30.8	24.3

## 02301721 ALAFIA RIVER AT GIBSONTON, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(6.50 FT BELOW NGVD)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	27.9	25.4	---	---	18.7	17.7	19.2	16.0	16.4	16.0	18.3	17.4
2	27.5	25.9	---	---	18.9	18.0	18.9	16.3	18.2	16.2	19.0	17.7
3	27.3	26.6	24.4	24.2	19.2	18.5	19.4	16.8	19.0	16.6	19.3	17.9
4	26.8	26.4	24.7	24.3	19.5	18.7	19.5	17.0	18.5	16.4	20.3	18.1
5	26.6	26.4	25.4	24.3	20.0	19.0	20.5	17.8	18.4	16.6	21.7	18.9
6	26.9	26.5	25.4	24.5	19.9	17.7	20.6	18.8	21.0	16.8	23.2	20.4
7	27.0	26.6	25.7	24.7	18.2	16.3	19.1	17.5	21.1	18.8	23.6	21.2
8	27.0	26.5	25.7	25.0	17.3	15.9	18.3	15.4	19.8	17.0	22.8	21.4
9	27.3	26.6	25.5	25.0	17.2	16.0	17.8	16.0	18.7	16.6	21.9	20.1
10	27.0	26.6	25.1	23.4	19.0	16.5	17.6	15.7	20.0	17.4	21.4	19.3
11	27.1	26.6	24.2	23.7	18.6	16.8	16.4	12.9	20.0	17.4	21.3	19.4
12	27.2	26.6	24.6	23.9	17.3	16.5	15.2	13.0	21.4	17.8	21.4	19.8
13	28.0	26.8	24.9	24.1	17.5	16.6	15.9	14.6	21.4	18.2	21.0	19.5
14	28.5	27.3	24.6	22.4	18.1	16.8	16.0	14.6	20.6	18.3	20.8	19.3
15	28.1	26.9	23.1	22.0	18.1	16.3	17.1	15.1	20.3	19.1	20.6	19.4
16	27.3	26.6	23.2	22.1	18.0	16.8	17.0	15.5	19.8	18.9	21.5	19.7
17	26.9	26.5	23.4	22.4	17.9	16.9	17.0	15.5	19.6	18.2	23.0	20.5
18	26.9	26.0	23.4	22.9	17.4	15.9	16.7	15.7	18.3	16.4	23.5	20.2
19	26.8	25.8	23.3	22.3	17.1	15.5	17.5	16.1	17.6	16.1	23.9	20.6
20	26.1	25.8	22.8	21.2	16.2	14.9	17.0	16.0	17.8	16.7	23.2	20.9
21	26.4	25.6	22.5	20.6	15.1	13.4	16.9	15.7	19.5	17.0	23.3	20.7
22	26.5	25.4	22.5	21.3	14.9	13.9	17.0	15.9	20.7	17.8	23.4	21.0
23	26.2	25.5	22.5	21.3	15.5	14.1	16.4	15.5	20.9	18.1	22.2	19.5
24	26.3	25.4	22.3	21.5	16.5	14.9	16.7	15.3	20.9	19.0	21.2	18.8
25	25.8	24.9	22.6	21.9	16.7	15.2	17.2	15.6	20.7	18.7	21.3	20.2
26	26.0	24.8	22.4	21.7	16.2	14.9	18.8	15.8	20.6	18.8	21.5	20.1
27	26.4	25.2	22.7	22.0	16.6	15.0	20.0	18.0	20.0	17.0	21.6	20.1
28	26.2	25.4	23.9	22.3	16.9	15.0	19.0	16.8	18.8	15.8	22.6	20.1
29	25.7	24.9	23.1	19.2	17.6	15.3	17.9	16.5	18.5	16.5	22.2	20.8
30	25.7	24.6	19.3	17.5	18.0	15.9	17.6	16.9	---	---	23.4	20.4
31	---	---	---	---	17.9	16.2	17.2	16.3	---	---	24.0	22.0
MONTH	28.5	24.6	---	---	20.0	13.4	20.6	12.9	21.4	15.8	24.0	17.4
1	23.4	20.8	27.2	25.0	31.7	30.4	31.1	29.9	29.9	27.9	30.3	27.2
2	22.5	20.2	27.5	25.8	31.9	30.4	31.2	28.9	29.6	27.6	30.2	26.6
3	22.3	19.8	26.7	25.6	32.0	30.4	31.6	29.0	29.3	27.9	30.2	26.4
4	22.1	20.4	27.3	24.2	31.6	29.4	32.1	29.4	29.2	28.3	30.4	27.0
5	22.3	19.6	26.8	24.0	31.2	29.3	31.6	29.6	29.3	27.8	30.3	25.3
6	22.6	20.3	26.8	24.6	31.5	29.4	32.2	29.7	29.4	28.2	27.0	24.7
7	23.1	21.0	26.8	24.8	31.6	29.4	31.4	29.7	29.3	27.9	25.7	24.8
8	23.8	22.0	27.2	25.0	31.0	29.4	31.9	30.2	29.3	27.6	25.9	25.3
9	24.9	22.9	26.5	25.2	31.2	29.6	32.1	31.1	29.5	27.8	26.9	25.7
10	25.7	23.0	26.0	24.7	32.2	29.9	32.4	31.0	29.5	27.8	27.4	25.9
11	25.4	23.0	26.0	25.1	32.0	30.0	31.9	31.0	29.5	28.8	27.6	26.2
12	24.2	22.8	26.5	25.4	32.6	30.0	---	---	30.2	27.8	27.6	26.2
13	23.6	21.9	27.2	25.4	31.5	30.2	---	---	30.5	26.6	28.0	26.5
14	21.9	19.5	27.3	25.3	30.8	28.7	---	---	29.4	25.7	27.9	26.8
15	22.0	19.0	27.8	25.0	30.8	27.9	---	---	29.3	25.2	28.1	27.5
16	23.7	19.8	27.4	25.5	30.4	28.7	---	---	29.1	25.1	28.0	27.1
17	23.5	20.2	27.8	25.2	30.6	28.7	---	---	29.0	25.3	29.2	27.0
18	23.4	20.3	28.0	25.2	30.1	28.8	---	---	28.9	26.3	29.5	27.3
19	24.1	20.7	28.0	25.6	31.4	29.8	---	---	29.0	25.9	29.2	27.3
20	23.9	21.2	28.4	26.4	31.9	30.3	---	---	29.1	26.0	28.7	27.1
21	23.7	22.2	28.7	26.4	31.9	30.5	---	---	29.2	26.7	28.4	26.2
22	25.1	22.4	29.0	27.0	32.1	30.7	---	---	29.7	27.0	28.4	26.8
23	25.6	23.2	29.3	27.6	32.3	30.8	---	---	29.9	26.8	28.2	27.1
24	25.8	22.9	28.9	27.6	32.1	30.7	---	---	29.9	26.7	27.9	26.8
25	25.2	22.8	29.9	27.9	32.6	31.2	---	---	29.9	27.5	27.9	26.5
26	26.0	24.0	30.4	28.3	32.6	31.1	---	---	30.0	27.2	27.0	24.6
27	25.9	24.8	30.9	29.0	32.0	30.9	29.5	29.1	29.9	27.4	25.6	24.3
28	25.4	24.0	31.1	28.9	31.4	29.8	29.7	28.2	30.1	27.8	26.0	24.7
29	25.2	23.8	31.6	29.1	31.0	29.7	29.7	28.6	30.0	28.2	26.7	25.2
30	26.4	24.1	31.7	29.5	31.1	30.1	29.9	28.8	30.2	28.2	27.4	25.8
31	---	---	31.6	29.8	---	---	30.1	28.9	30.5	28.2	---	---
MONTH	26.4	19.0	31.7	24.0	32.6	27.9	---	---	30.5	25.1	30.4	24.3

## 02301738 ARCHIE CREEK AT 78TH STREET NEAR TAMPA, FL.

LOCATION.--Lat 27° 52'47", long 82° 22'15" (1927 North American datum), in SE $\frac{1}{4}$  sec.11, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on right bank of creek, 400 ft downstream from 78th street, and 7.2 mi southeast of Tampa.

DRAINAGE AREA.--2.90 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.71 ft below National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	1.0	0.12	0.03	4.6	5.1	0.22	0.07	0.02	0.23	27	8.9
2	6.7	0.80	0.10	0.03	3.9	4.5	0.19	0.26	0.02	0.49	44	5.5
3	5.7	0.71	0.09	0.04	3.4	4.1	0.15	1.0	0.01	0.76	43	4.3
4	4.8	0.65	0.08	0.03	2.9	3.7	0.12	1.1	0.05	0.40	40	3.9
5	4.2	0.84	0.09	0.02	2.6	3.4	0.10	0.58	0.07	0.23	39	2.9
6	3.7	1.6	0.08	0.02	2.3	3.2	0.09	0.35	0.09	0.14	33	12.6
7	3.3	2.1	0.07	0.01	2.1	3.1	0.08	0.24	0.07	0.10	45	12.1
8	e2.9	1.7	0.07	0.01	1.6	2.8	0.09	0.18	0.05	0.09	54	8.9
9	e2.6	1.4	0.06	0.02	1.2	2.3	0.07	0.14	0.06	0.07	44	5.6
10	2.4	1.0	0.05	0.03	0.86	1.9	0.06	0.12	0.06	0.05	26	5.2
11	2.2	0.83	0.06	0.02	0.68	1.5	0.12	0.10	0.06	2.1	17	3.5
12	2.0	0.67	0.05	0.02	0.60	1.2	4.4	0.09	0.05	4.4	12	2.6
13	1.8	0.58	0.04	0.02	0.59	1.0	4.1	0.08	0.08	1.9	11	2.2
14	1.9	0.44	2.1	0.01	0.93	0.78	2.4	0.07	0.14	1.0	27	1.8
15	1.6	0.37	2.1	0.01	2.6	0.74	1.4	0.07	0.20	0.73	32	1.6
16	0.90	0.31	1.1	0.01	1.7	4.4	0.83	0.06	0.22	2.2	20	1.6
17	0.64	0.28	0.80	0.01	1.1	5.6	0.53	0.06	0.16	6.1	15	1.4
18	0.49	0.26	0.49	3.0	0.71	4.2	0.37	0.08	0.12	20	11	1.2
19	0.39	0.49	0.31	3.5	0.46	3.4	0.28	0.08	0.11	44	6.8	1.0
20	0.33	0.49	0.22	2.7	0.35	2.9	0.23	0.06	0.11	72	5.6	9.1
21	0.25	0.39	0.16	1.7	0.29	2.6	0.20	0.05	0.06	67	5.5	9.5
22	0.19	0.31	0.14	1.1	0.22	2.2	0.17	0.05	0.06	40	5.0	8.7
23	0.15	0.25	0.14	0.76	0.18	1.6	0.14	0.04	0.05	17	5.7	7.5
24	0.12	0.22	0.14	0.60	1.8	1.1	0.12	0.04	0.04	9.0	4.8	6.7
25	0.09	0.22	0.12	0.47	17	0.79	0.11	0.04	0.04	7.7	4.6	6.1
26	0.07	0.22	0.09	0.45	12	0.63	0.11	0.03	0.04	6.0	4.8	3.8
27	0.06	0.19	0.06	3.5	8.8	0.51	0.10	0.03	0.05	6.9	4.0	6.4
28	0.34	0.19	0.05	3.4	7.0	0.43	0.08	0.03	0.04	14	3.4	3.6
29	2.4	0.14	0.04	2.5	5.8	0.37	0.07	0.03	0.31	29	3.2	2.2
30	e1.5	0.12	0.04	2.2	---	0.31	0.07	0.03	0.45	21	3.0	1.7
31	e1.2	---	0.04	3.1	---	0.27	---	0.03	---	12	3.7	---
TOTAL	62.92	18.77	9.10	29.32	88.27	70.63	17.00	5.19	2.89	386.59	600.1	889.2
MEAN	2.03	0.63	0.29	0.95	3.04	2.28	0.57	0.17	0.10	12.5	19.4	29.6
MAX	8.0	2.1	2.1	3.5	17	5.6	4.4	1.1	0.45	72	54	126
MIN	0.06	0.12	0.04	0.01	0.18	0.27	0.06	0.03	0.01	0.05	3.0	3.9
MED	1.6	0.46	0.09	0.03	1.7	2.2	0.13	0.07	0.06	4.4	12	17
AC-FT	125	37	18	58	175	140	34	10	5.7	767	1,190	1,760
CFSM	0.70	0.22	0.10	0.33	1.05	0.79	0.20	0.06	0.03	4.30	6.68	10.2
IN.	0.81	0.24	0.12	0.38	1.13	0.91	0.22	0.07	0.04	4.96	7.70	11.41

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	1.54	0.41	2.79	2.41	1.26	2.40	1.10	0.57	1.94	6.72	8.00	11.3
MAX	2.03	0.83	12.8	10.6	3.04	8.38	3.79	2.64	9.01	12.5	19.4	29.6
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)
MIN	0.80	0.15	0.08	0.04	0.03	0.03	0.00	0.00	0.02	0.16	0.38	3.11
(WY)	(2003)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2002)

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	2,019.84		2,179.98			
ANNUAL MEAN	5.53		5.96		3.38	
HIGHEST ANNUAL MEAN					6.51	
LOWEST ANNUAL MEAN					0.60	
HIGHEST DAILY MEAN	109	Jan 1	126	Sep 6	126	Sep 6, 2004
LOWEST DAILY MEAN	0.04	Dec 13	0.01	Jan 7	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.06	Dec 7	0.01	Jan 11	0.00	Apr 15, 2000
MAXIMUM PEAK FLOW			138	Sep 6	138	Sep 6, 2004
MAXIMUM PEAK STAGE			24.46	Sep 6	24.46	Sep 6, 2004
ANNUAL RUNOFF (AC-FT)	4,010		4,320		2,450	
ANNUAL RUNOFF (CFSM)	1.91		2.05		1.17	
ANNUAL RUNOFF (INCHES)	25.91		27.96		15.84	
10 PERCENT EXCEEDS	12		17		8.1	
50 PERCENT EXCEEDS	3.3		0.64		0.40	
90 PERCENT EXCEEDS	0.22		0.04		0.01	

e Estimated

## 02301740 NORTH ARCHIE CREEK AT PROGRESS BOULEVARD NEAR TAMPA, FL.

LOCATION.--Lat 27° 53'47", long 82° 22'00" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.6, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100206, on left wingwall on upstream side of box culverts on Progress Boulevard, 0.2 mi northwest of Interstate 75, and 7.5 mi southeast of Tampa.

DRAINAGE AREA.--6.09 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 1.05 ft (corrected) above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	1.3	0.21	0.15	1.8	2.4	0.17	0.06	0.00	0.56	66	13
2	9.8	1.2	0.19	0.12	1.7	2.1	0.14	0.06	0.00	0.51	47	12
3	7.0	1.2	0.19	0.10	1.5	1.9	0.10	0.51	0.00	0.53	66	9.2
4	5.0	1.2	0.42	0.10	1.3	1.7	0.10	1.0	0.00	0.34	50	8.1
5	4.0	1.2	0.33	0.10	1.0	1.5	0.10	0.78	0.00	0.17	27	74
6	3.3	1.2	0.23	0.11	0.79	1.4	0.10	0.37	0.00	0.16	32	316
7	2.8	1.2	0.17	0.10	0.67	1.4	0.04	0.21	0.00	0.13	70	193
8	2.5	1.2	0.17	0.10	0.54	1.4	0.04	0.13	0.00	0.08	87	107
9	2.2	1.1	0.13	0.10	0.43	1.3	0.04	0.08	0.00	0.03	39	66
10	1.9	1.1	0.10	0.10	0.44	1.3	0.04	0.04	0.00	0.01	33	148
11	1.9	0.98	0.13	0.17	0.37	1.2	0.05	0.03	0.00	2.3	23	56
12	1.8	0.79	0.10	0.17	0.28	1.2	2.2	0.02	0.00	1.5	17	27
13	1.7	0.67	0.10	0.16	0.28	1.2	3.0	0.02	0.01	1.1	15	18
14	1.7	0.52	0.86	0.15	0.28	1.2	1.9	0.01	0.02	0.33	57	15
15	1.6	0.44	1.3	0.12	0.41	1.2	1.4	0.00	0.10	0.22	37	14
16	1.5	0.41	1.3	0.10	0.47	2.0	1.2	0.00	0.21	1.8	17	13
17	1.5	0.34	1.2	0.10	0.44	2.7	1.0	0.00	0.55	12	16	13
18	1.4	0.33	1.1	1.3	0.44	2.2	0.75	0.00	0.34	23	11	10
19	1.3	0.44	0.90	1.9	0.44	1.9	0.53	0.00	1.6	36	8.1	5.6
20	1.2	0.43	0.67	1.9	0.44	1.6	0.38	0.00	1.5	106	7.8	4.6
21	1.2	0.33	0.48	1.5	0.36	1.5	0.28	0.00	1.2	65	9.7	4.5
22	1.2	0.28	0.43	1.3	0.28	1.3	0.17	0.00	0.85	28	9.0	4.2
23	1.2	0.28	0.39	1.1	0.28	1.1	0.06	0.00	0.52	17	9.0	4.0
24	1.2	0.28	0.43	0.65	0.88	1.1	0.08	0.00	0.37	13	9.7	3.7
25	1.1	0.20	0.44	0.35	13	0.70	0.07	0.00	0.24	10	11	3.5
26	1.1	0.22	0.34	0.26	8.9	0.44	0.04	0.00	0.20	8.2	14	84
27	1.1	0.21	0.29	1.2	6.5	0.30	0.04	0.00	0.17	7.2	13	112
28	1.1	0.24	0.20	1.4	4.5	0.28	0.03	0.00	0.13	27	11	50
29	1.7	0.27	0.17	1.2	3.1	0.28	0.02	0.00	0.54	42	9.7	25
30	1.6	0.26	0.17	1.0	---	0.28	0.03	0.00	0.53	29	8.0	19
31	1.5	---	0.17	1.1	---	0.20	---	0.00	---	21	6.8	---
TOTAL	81.1	19.82	13.31	18.21	51.82	40.28	14.10	3.32	9.08	454.17	836.8	1,432.4
MEAN	2.62	0.66	0.43	0.59	1.79	1.30	0.47	0.11	0.30	14.7	27.0	47.7
MAX	13	1.3	1.3	1.9	13	2.7	3.0	1.0	1.6	106	87	316
MIN	1.1	0.20	0.10	0.10	0.28	0.20	0.02	0.00	0.00	0.01	6.8	3.5
MED	1.6	0.44	0.29	0.17	0.47	1.3	0.10	0.00	0.11	2.3	16	15
AC-FT	161	39	26	36	103	80	28	6.6	18	901	1,660	2,840
CFSM	0.43	0.11	0.07	0.10	0.29	0.21	0.08	0.02	0.05	2.41	4.43	7.84
IN.	0.50	0.12	0.08	0.11	0.32	0.25	0.09	0.02	0.06	2.77	5.11	8.75
*PREC	0.99	0.62	1.24	3.12	3.22	1.09	2.46	1.23	4.33	15.59	10.40	14.19

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	2.17	0.55	3.74	3.37	1.27	2.37	1.38	0.48	3.39	8.52	10.9	19.4
MAX	4.66	0.96	17.6	15.7	3.81	9.07	4.52	2.25	14.9	18.2	27.0	47.7
(WY)	(2000)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2004)	(2004)
MIN	0.71	0.13	0.13	0.12	0.05	0.00	0.00	0.00	0.30	1.36	1.87	2.89
(WY)	(2003)	(2002)	(2002)	(2001)	(2001)	(2000)	(2000)	(2000)	(2004)	(2002)	(2000)	(2002)

## 02301740 NORTH ARCHIE CREEK AT PROGRESS BOULEVARD NEAR TAMPA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	2,270.93		2,974.41		4.81	
ANNUAL MEAN	6.22		8.13		8.13	
HIGHEST ANNUAL MEAN					1.37	
LOWEST ANNUAL MEAN					2004	
HIGHEST DAILY MEAN	218	Jan 1	316	Sep 6	316	Sep 6, 2004
LOWEST DAILY MEAN	0.10	Dec 10	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.13	Dec 7	0.00	May 15	0.00	Mar 3, 2000
MAXIMUM PEAK FLOW			353	Sep 6	353	Sep 6, 2004
MAXIMUM PEAK STAGE			19.62	Sep 6	19.62	Sep 6, 2004
ANNUAL RUNOFF (AC-FT)	4,500		5,900		3,480	
ANNUAL RUNOFF (CFSM)	1.02		1.33		0.789	
ANNUAL RUNOFF (INCHES)	13.87		18.17		10.72	
10 PERCENT EXCEEDS	11		17		11	
50 PERCENT EXCEEDS	3.1		0.87		0.69	
90 PERCENT EXCEEDS	0.44		0.03		0.00	

\* Precipitation, total, inches



02301743 NORTH ARCHIE CREEK AT 82ND STREET NEAR TAMPA, FL.

LOCATION.--Lat 27° 53'37", long 82° 21'56" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.12, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on right culvert wingwall near right bank on 82nd Street, 0.4 mi south of Progress Village Boulevard, and 6.8 mi southeast of Tampa.

DRAINAGE AREA.--7.53 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1999 to current year (crest stage only).

GAGE.--Crest stage partial record gage. Datum of gage is National Geodetic Vertical Datum of 1929.

ANNUAL MAXIMUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Annual gage height (ft)	Maximum discharge(ft <sup>3</sup> /s)
Sept. 6	14.35	Not determined

## 02301745 DELANEY CREEK POPOFF CANAL NEAR TAMPA, FL.

LOCATION.--Lat 27° 54'07", long 82° 22'38" (1927 North American datum), in NE $\frac{1}{4}$  sec.2, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on left bank at dead end of 51st Street, 350 ft upstream from Madison Avenue, and 5.9 mi southeast of Tampa.

DRAINAGE AREA.--2.00 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 2.07 ft below National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	0.30	0.12	0.15	4.1	1.4	0.06	0.12	0.00	0.52	53	9.0
2	5.9	0.24	0.13	0.14	2.5	1.1	0.05	0.03	0.00	0.29	38	3.4
3	4.0	0.21	0.12	0.13	1.3	0.89	0.05	0.87	0.00	0.37	40	1.6
4	3.0	0.21	0.12	0.13	0.73	0.74	0.04	0.98	0.00	0.18	30	1.0
5	2.3	0.34	0.15	0.13	0.47	0.69	0.05	0.39	0.00	0.05	21	55
6	2.3	0.46	0.15	0.12	0.26	0.62	0.06	0.18	0.00	0.01	34	273
7	1.5	0.47	0.15	0.13	0.19	0.56	0.07	0.10	0.00	0.00	98	79
8	1.2	0.44	0.14	0.11	0.06	0.45	0.10	0.05	0.00	0.00	65	43
9	1.0	0.34	0.13	0.14	0.00	0.37	0.13	0.03	0.01	0.00	26	31
10	0.85	0.25	0.13	0.21	0.00	0.32	0.12	0.02	0.02	0.00	12	43
11	0.75	0.20	0.12	0.19	0.00	0.24	0.15	0.01	0.05	1.7	5.3	14
12	0.67	0.19	0.13	0.17	0.00	0.20	3.6	0.01	0.02	5.1	2.8	6.9
13	0.63	0.16	0.15	0.17	0.00	0.18	2.5	0.01	0.39	1.5	3.4	5.3
14	0.60	0.15	2.7	0.17	0.02	0.13	0.95	0.00	0.56	0.57	12	3.9
15	0.54	0.14	1.9	0.17	0.22	0.12	0.40	0.00	0.32	0.21	8.4	3.1
16	0.46	0.13	0.80	0.17	0.17	4.4	0.21	0.00	5.5	0.68	4.7	3.3
17	0.39	0.13	0.64	0.17	0.02	4.0	0.13	0.00	1.6	8.5	5.0	2.8
18	0.13	0.13	0.60	3.4	0.00	2.9	0.07	0.00	0.72	15	3.0	2.2
19	0.30	0.25	0.52	5.3	0.00	1.1	0.04	0.00	0.44	27	1.9	2.0
20	0.19	0.19	0.45	5.4	0.00	0.70	0.02	0.00	0.34	59	1.6	1.3
21	0.58	0.17	0.40	2.6	0.00	0.49	0.02	0.00	0.18	53	2.2	1.5
22	0.21	0.14	0.37	1.6	0.00	0.37	0.02	0.00	0.07	36	1.8	1.3
23	0.15	0.13	0.33	1.1	0.00	0.28	0.02	0.00	0.02	21	8.5	1.1
24	0.15	0.12	0.31	0.70	1.5	0.21	0.03	0.00	0.02	11	3.6	0.88
25	0.14	0.14	0.27	0.45	29	0.17	0.04	0.00	0.01	12	3.8	0.77
26	0.15	0.12	0.24	0.29	9.9	0.17	0.05	0.00	0.00	5.2	10	53
27	0.14	0.12	0.22	4.2	5.3	0.15	0.03	0.00	0.00	4.3	4.0	55
28	0.28	0.13	0.20	3.8	3.0	0.13	0.04	0.00	0.00	20	2.0	18
29	1.1	0.12	0.19	1.3	2.0	0.09	0.02	0.00	0.10	34	2.7	7.5
30	0.62	0.13	0.18	0.57	---	0.09	0.09	0.00	0.58	27	1.4	4.7
31	0.36	---	0.17	1.0	---	0.06	---	0.00	---	8.9	1.8	---
TOTAL	38.79	6.25	12.23	34.31	60.74	23.32	9.16	2.80	10.95	353.08	506.9	727.55
MEAN	1.25	0.21	0.39	1.11	2.09	0.75	0.31	0.09	0.36	11.4	16.4	24.3
MAX	8.2	0.47	2.7	5.4	29	4.4	3.6	0.98	5.5	59	98	273
MIN	0.13	0.12	0.12	0.11	0.00	0.06	0.02	0.00	0.00	0.00	1.4	0.77
MED	0.60	0.17	0.19	0.19	0.17	0.37	0.06	0.00	0.02	4.3	5.0	4.3
AC-FT	77	12	24	68	120	46	18	5.6	22	700	1,010	1,440
CFSM	0.63	0.10	0.20	0.55	1.05	0.38	0.15	0.05	0.18	5.69	8.18	12.1
IN.	0.72	0.12	0.23	0.64	1.13	0.43	0.17	0.05	0.20	6.57	9.43	13.53
*PREC	1.04	1.06	1.49	3.35	3.48	1.25	2.09	1.30	5.12	14.43	10.98	12.44

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	0.95	0.27	2.34	1.75	0.81	2.52	1.80	0.25	2.59	6.89	6.83	11.3
MAX	1.74	0.41	10.5	6.59	2.09	8.08	8.19	0.88	10.1	16.9	16.4	24.3
(WY)	(2000)	(2001)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2001)	(2004)	(2004)
MIN	0.48	0.11	0.15	0.17	0.16	0.23	0.01	0.00	0.37	0.96	1.08	2.45
(WY)	(2002)	(2002)	(2002)	(2000)	(2000)	(2000)	(2000)	(2000)	(2004)	(2002)	(2000)	(2002)

## 02301745 DELANEY CREEK POPOFF CANAL NEAR TAMPA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	1,533.36		1,786.08		3.20	
ANNUAL MEAN	4.20		4.88		5.02	
HIGHEST ANNUAL MEAN					1.25	
LOWEST ANNUAL MEAN					273	
HIGHEST DAILY MEAN	113	Jan 1	273	Sep 6	273	Sep 6, 2004
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	May 10	0.00	May 14	0.00	Apr 6, 2000
MAXIMUM PEAK FLOW			399	Sep 6	399	Sep 6, 2004
MAXIMUM PEAK STAGE			12.19	Sep 6	13.27	Sep 14, 2001
ANNUAL RUNOFF (AC-FT)	3,040		3,540		2,320	
ANNUAL RUNOFF (CFSM)	2.10		2.44		1.60	
ANNUAL RUNOFF (INCHES)	28.52		33.22		21.72	
10 PERCENT EXCEEDS	11		8.9		6.2	
50 PERCENT EXCEEDS	1.2		0.28		0.36	
90 PERCENT EXCEEDS	0.12		0.00		0.01	

\* Precipitation, total, inches

## 02301750 DELANEY CREEK NEAR TAMPA, FL.

LOCATION.--Lat 27° 55'32", long 82° 21'52" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.25, T.29 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on left bank at south end of Darlington Street, 1.8 mi south of intersection State Highway 60 and U. S. Highway 301, near southeastern city limits of Tampa.

DRAINAGE AREA.--13 mi<sup>2</sup> (corrected).

PERIOD OF RECORD.--October 1984 to current year.

REVISED RECORDS.--WDR FL-2002-3A: 2001 (September).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 10.72 ft above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	2.1	0.73	0.60	11	11	0.99	2.9	0.01	16	58	55
2	33	1.6	0.62	0.50	9.4	8.7	0.82	1.8	0.22	11	87	51
3	24	1.3	0.56	0.46	7.5	7.2	0.71	5.7	0.09	8.7	90	38
4	18	1.3	0.51	0.46	6.9	6.0	0.69	8.2	0.00	7.2	103	31
5	14	1.3	0.51	0.45	5.5	5.4	0.90	4.8	0.13	6.4	97	136
6	11	5.2	0.37	0.46	4.6	5.1	1.2	2.9	0.02	10	91	507
7	9.6	8.9	0.34	0.70	3.8	4.3	0.71	1.7	0.20	9.1	172	274
8	7.8	4.3	0.30	0.99	3.0	4.1	0.83	1.1	0.16	7.5	162	157
9	6.5	2.9	0.27	0.82	2.7	3.7	0.81	0.71	2.3	5.5	121	144
10	5.7	2.3	0.26	1.5	2.2	3.5	0.88	0.55	0.50	4.2	79	206
11	5.2	1.9	0.20	1.2	1.6	3.0	0.84	1.0	0.15	4.8	53	164
12	5.3	1.6	0.19	0.89	1.5	2.9	17	0.31	0.08	3.4	39	117
13	4.7	1.4	0.26	0.67	1.5	2.6	17	0.22	3.6	2.6	34	87
14	4.3	1.2	11	0.53	1.8	2.3	10	0.43	14	1.9	58	63
15	4.3	1.1	11	0.61	3.3	2.2	7.6	0.26	33	1.4	85	50
16	3.2	0.96	6.4	0.49	3.0	16	4.3	0.09	73	4.9	66	44
17	2.7	0.85	4.3	0.37	2.8	17	3.0	0.16	48	31	49	38
18	2.4	0.78	3.0	10	2.0	11	2.6	0.34	29	42	38	33
19	2.1	1.3	2.3	16	1.7	7.1	2.6	0.09	18	87	30	29
20	1.9	1.5	1.8	13	1.7	4.9	1.9	0.07	13	153	28	25
21	1.7	1.4	1.4	8.2	1.8	3.8	1.2	0.16	9.9	138	36	23
22	1.5	1.3	1.2	5.6	1.3	3.2	1.7	0.18	7.6	102	30	21
23	1.3	1.2	1.1	4.0	1.5	2.5	1.2	0.06	4.5	69	33	18
24	1.1	1.1	1.0	3.0	6.2	2.1	0.84	0.15	5.1	50	26	15
25	1.0	1.2	0.90	2.5	69	1.9	0.55	0.11	15	43	39	13
26	1.0	1.1	0.82	2.1	53	1.7	0.75	0.05	11	33	107	101
27	1.0	1.0	0.77	6.4	29	1.5	0.81	0.05	6.4	26	67	162
28	1.6	0.92	0.78	9.0	19	1.4	0.63	0.03	6.6	34	52	102
29	6.3	0.83	0.74	5.9	14	1.4	0.47	0.03	5.7	66	57	69
30	4.7	0.77	0.74	4.4	---	1.3	0.54	0.00	19	51	42	49
31	3.0	---	0.63	5.3	---	1.1	---	0.00	---	35	34	---
TOTAL	233.9	54.61	55.00	107.10	272.3	149.9	84.07	34.15	326.26	1,064.6	2,063	2,822
MEAN	7.55	1.82	1.77	3.45	9.39	4.84	2.80	1.10	10.9	34.3	66.5	94.1
MAX	44	8.9	11	16	69	17	17	8.2	73	153	172	507
MIN	1.0	0.77	0.19	0.37	1.3	1.1	0.47	0.00	0.00	1.4	26	13
CFSM	0.47	0.11	0.11	0.21	0.58	0.30	0.17	0.07	0.68	2.13	4.13	5.84
IN.	0.54	0.13	0.13	0.25	0.63	0.35	0.19	0.08	0.75	2.46	4.77	6.52
*PREC	1.41	1.10	1.89	3.81	3.85	1.60	1.81	0.97	6.72	13.94	12.46	15.15

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2004, BY WATER YEAR (WY)

MEAN	7.11	3.18	4.38	5.72	5.85	7.83	4.34	2.50	8.91	16.0	20.2	28.4
MAX	21.1	16.0	38.3	23.0	45.0	38.9	23.3	11.9	31.9	35.0	66.5	94.1
(WY)	(1995)	(1998)	(1998)	(1998)	(1998)	(1987)	(2003)	(1991)	(1992)	(1991)	(2004)	(2004)
MIN	1.50	0.35	0.39	0.18	0.10	0.22	0.05	0.00	0.11	1.49	1.11	1.72
(WY)	(1992)	(2001)	(1991)	(1997)	(1997)	(2000)	(2000)	(2000)	(1988)	(1993)	(1996)	(1987)

TAMPA BAY AND COASTAL AREAS

02301750 DELANEY CREEK NEAR TAMPA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1985 - 2004	
ANNUAL TOTAL	4,926.07		7,266.89			
ANNUAL MEAN	13.5		19.9		9.55	
HIGHEST ANNUAL MEAN					21.1	1998
LOWEST ANNUAL MEAN					4.09	1989
HIGHEST DAILY MEAN	143	Jan 1	507	Sep 6	588	Sep 27, 1997
LOWEST DAILY MEAN	0.19	Dec 12	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.26	Dec 7	0.02	May 26	0.00	May 29, 1988
MAXIMUM PEAK FLOW			721	Sep 6	721	Sep 6, 2004
MAXIMUM PEAK STAGE			6.45	Sep 6	9.99	Sep 27, 1997
ANNUAL RUNOFF (CFSM)	0.838		1.23		0.593	
ANNUAL RUNOFF (INCHES)	11.38		16.79		8.06	
10 PERCENT EXCEEDS	36		58		24	
50 PERCENT EXCEEDS	7.0		3.0		2.7	
90 PERCENT EXCEEDS	1.0		0.36		0.21	

\* Precipitation, total, inches

02301793 EAST LAKE OUTFALL AT EAST CHELSEA STREET NEAR TAMPA, FL.

LOCATION.--Lat 27° 59'05", long 82° 22'19" (1927 North American datum), in SE 1/4 sec.2, T.29 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on upstream side of culvert headwall on East Chelsea Street, 400 ft east of Orient Road, 0.5 mi south of Interstate 4, and 5.7 mi east southeast of Tampa.

DRAINAGE AREA.--1.46 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage records. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair. Rainfall records collected at nearby site 275917082222500 East Lake Rainfall at Orient Road near Tampa. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	0.00	0.01	0.01	4.7	5.7	0.00	19	0.00	3.6	4.0	3.8
2	2.0	0.00	0.02	0.01	3.8	5.2	0.01	12	0.00	5.4	3.4	3.0
3	1.5	0.00	0.00	0.01	3.0	4.8	0.00	12	0.00	6.6	2.7	2.2
4	1.1	0.00	0.00	0.01	2.2	2.3	0.00	11	0.00	4.5	3.0	1.6
5	0.82	0.00	0.00	0.00	1.6	0.97	0.00	7.0	0.01	7.0	3.5	17
6	0.64	0.00	0.00	0.00	1.2	0.81	0.00	4.7	0.72	9.5	2.8	101
7	0.42	0.00	0.00	0.00	0.87	0.66	0.00	3.0	1.4	7.4	22	67
8	0.27	0.00	0.00	0.00	0.47	0.50	0.00	1.9	0.80	6.5	36	41
9	0.17	0.00	0.00	0.03	0.29	0.29	0.02	1.2	1.8	4.6	30	35
10	0.11	0.00	0.00	0.10	0.24	0.17	0.01	0.69	6.3	3.1	30	32
11	0.06	0.00	0.00	0.07	0.19	0.10	0.01	0.45	4.6	2.1	18	21
12	0.00	0.00	0.00	0.04	0.19	0.07	2.3	0.26	2.9	1.5	11	14
13	0.00	0.00	0.00	0.02	0.19	0.05	2.6	0.16	4.7	1.4	8.2	9.6
14	0.26	0.00	3.8	0.01	0.25	0.04	1.5	0.09	11	0.97	8.4	7.4
15	0.40	0.00	3.5	0.00	0.63	0.06	0.71	0.05	10	0.57	8.3	5.8
16	0.21	0.00	2.5	0.00	0.42	1.4	0.51	0.07	7.5	0.85	6.7	4.7
17	0.12	0.00	2.1	0.00	0.31	2.2	0.37	1.2	5.0	3.9	5.1	4.0
18	0.07	0.00	1.3	2.9	0.19	1.5	0.26	3.5	3.1	11	5.0	3.3
19	0.00	0.05	0.93	5.0	0.12	1.1	0.18	2.5	2.0	23	6.8	2.5
20	0.00	0.06	0.63	4.5	0.11	0.72	0.14	1.5	1.3	40	5.0	1.9
21	0.00	0.04	0.40	3.1	0.10	0.49	0.08	0.90	0.82	33	3.7	1.7
22	0.00	0.03	0.27	2.1	0.09	0.27	0.05	0.44	0.43	20	3.0	1.7
23	0.00	0.03	0.23	1.5	0.06	0.11	0.01	0.24	0.23	12	4.3	1.5
24	0.00	0.03	0.18	1.0	2.2	0.05	0.00	0.13	0.93	7.8	6.3	1.2
25	0.00	0.05	0.12	0.78	22	0.02	0.00	0.11	3.9	5.7	8.7	1.0
26	0.00	0.05	0.09	0.59	16	0.03	0.00	0.08	3.0	5.0	20	14
27	0.00	0.05	0.07	7.4	12	0.01	0.00	0.04	3.8	5.8	14	25
28	0.00	0.06	0.06	6.8	8.6	0.01	0.00	0.00	4.7	5.3	9.8	17
29	0.00	0.04	0.05	4.6	6.8	0.01	0.00	0.00	3.7	6.5	7.3	12
30	0.00	0.01	0.01	3.3	---	0.02	5.4	0.00	5.2	5.3	5.8	8.9
31	0.00	---	0.01	3.5	---	0.01	---	0.00	---	4.0	4.3	---
TOTAL	10.45	0.50	16.28	47.38	88.82	29.67	14.16	84.21	89.84	253.89	307.1	461.8
MEAN	0.34	0.02	0.53	1.53	3.06	0.96	0.47	2.72	2.99	8.19	9.91	15.4
MAX	2.3	0.06	3.8	7.4	22	5.7	5.4	19	11	40	36	101
MIN	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.57	2.7	1.0
*PREC	1.38	0.92	2.51	5.15	---	1.31	7.15	3.03	11.71	13.62	7.32	9.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	1.12	0.33	1.83	1.49	0.87	0.76	0.35	0.60	2.39	4.83	4.87	6.86
MAX	3.21	0.80	8.17	5.54	3.06	2.16	0.80	2.72	6.07	8.19	9.91	15.4
(WY)	(2000)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)	(2003)	(2004)	(2004)	(2004)
MIN	0.20	0.01	0.00	0.00	0.00	0.02	0.01	0.00	0.04	1.63	1.24	2.92
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2003)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	919.20		1,404.10			
ANNUAL MEAN	2.52		3.84		2.20	
HIGHEST ANNUAL MEAN					3.84	
LOWEST ANNUAL MEAN					0.87	
HIGHEST DAILY MEAN	26	Jan 1	101	Sep 6	101	Sep 6, 2004
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Oct 19	0.00	Oct 19	0.00	Feb 16, 2000
MAXIMUM PEAK FLOW			127	Sep 6	127	Sep 6, 2004
MAXIMUM PEAK STAGE			25.15	Sep 6	25.15	Sep 6, 2004
10 PERCENT EXCEEDS	7.9		9.7		6.4	
50 PERCENT EXCEEDS	0.29		0.65		0.20	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\* Precipitation, total, inches

## 02301805 PALM RIVER AT MOUTH AT TAMPA, FL.

LOCATION.--Lat 27° 56'31", long 82° 24'36" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.21, T.29 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on left bank, on City of Tampa fishing dock, at southeastern city limits of Tampa, and 4,000 ft downstream from 50th Street (U.S. Highway 41).

DRAINAGE AREA.--36.8 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--June 2001 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.07 ft, Sept. 6, 2004; minimum, 2.50 ft below NGVD, Mar. 5, 2002.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 6.07 ft, Sept. 6; minimum, 2.35 ft below NGVD, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.16	-0.69	1.62	-1.10	0.84	-0.83	1.37	-0.69	1.44	-0.89	1.70	-0.81
2	2.37	-0.59	1.44	-0.60	0.81	-0.86	1.59	-1.01	1.69	-1.37	1.18	-1.01
3	2.08	-0.45	1.10	-0.16	1.72	-0.79	1.99	-1.03	1.69	-1.49	1.05	-1.27
4	2.48	-0.36	2.39	0.21	2.19	-0.42	2.31	-0.91	0.83	-1.72	1.89	-0.94
5	2.06	-0.66	2.25	0.17	1.30	-0.41	2.24	-0.97	2.02	-1.22	2.25	-0.82
6	2.42	-0.29	2.22	-0.06	1.73	-1.44	1.30	-1.09	2.23	-0.91	2.38	-0.61
7	2.82	0.00	2.18	-0.21	0.69	-1.65	1.29	-2.35	2.57	-0.95	1.96	-0.83
8	2.33	-0.05	2.24	-0.57	1.70	-1.18	1.02	-1.57	0.87	-2.24	1.76	-1.22
9	2.32	-0.03	2.15	-1.02	1.91	-1.15	2.28	-0.67	1.08	-1.27	1.73	-0.86
10	2.32	-0.16	0.75	-1.56	2.53	-0.33	3.05	-1.31	1.54	-0.70	1.69	-0.72
11	2.48	-0.17	1.90	-1.01	2.38	-1.05	0.70	-1.84	1.66	-0.37	1.57	-1.57
12	2.60	-0.09	2.22	-0.58	2.06	-1.02	1.15	-1.01	1.88	-0.67	2.10	-1.17
13	2.42	-0.27	2.65	-0.35	1.72	-0.68	1.39	-0.73	1.76	-0.73	1.84	-1.02
14	2.53	0.09	1.34	-1.03	2.50	0.04	1.65	-0.41	2.81	-0.85	2.08	-1.28
15	2.41	-0.75	2.09	-0.29	1.00	-1.22	1.65	-0.04	1.86	-0.65	2.29	-1.17
16	1.66	-0.70	2.16	-0.19	1.67	-0.51	1.89	-0.67	1.42	-1.72	2.37	-0.75
17	2.04	-0.22	1.60	-0.46	1.89	-0.30	2.57	-0.90	1.24	-1.70	1.29	-0.79
18	1.57	-0.40	2.37	0.34	2.01	-0.95	2.88	-0.32	-0.23	-2.34	1.88	-1.13
19	1.36	-0.36	3.15	0.55	1.55	-0.85	1.48	-0.99	0.93	-1.76	2.04	-0.88
20	1.62	-0.79	1.94	-0.87	1.22	-1.30	---	-1.76	2.05	-1.09	1.78	-0.76
21	2.09	-0.37	1.60	-0.40	1.67	-1.99	1.84	-1.72	2.49	-0.81	1.84	-0.60
22	2.10	-0.22	2.15	-0.92	---	-1.92	2.15	-1.53	2.25	-0.56	1.82	-1.53
23	2.19	-0.06	2.44	-0.87	2.21	-1.45	2.09	-1.49	1.73	-0.62	0.85	-1.57
24	2.19	-0.25	2.83	-0.78	2.83	-1.22	1.76	-1.09	2.32	0.76	1.10	-1.28
25	2.20	-0.67	3.01	-1.14	2.37	-1.56	1.90	-0.53	2.62	-0.52	1.72	-1.29
26	2.58	-0.79	2.77	-1.11	1.76	-1.61	1.89	-0.23	2.02	-0.06	1.71	0.10
27	2.73	-0.58	2.78	-0.66	1.42	-1.18	1.97	-0.32	0.44	-0.52	1.72	-0.97
28	3.25	-0.06	2.62	-0.46	1.48	-0.75	0.53	-1.00	1.26	-1.86	---	---
29	2.98	-1.04	0.49	-2.02	1.73	-0.27	1.45	-1.22	1.51	-1.65	---	---
30	2.16	-1.10	0.69	-1.12	1.72	0.16	1.07	-0.68	---	---	---	---
31	1.40	-1.13	---	---	1.39	0.01	0.75	-1.26	---	---	---	---
MAX	3.25	0.09	3.15	0.55	---	0.16	---	-0.04	2.81	0.76	---	---
MIN	1.36	-1.13	0.49	-2.02	---	-1.99	---	-2.35	-0.23	-2.34	---	---

## 02301805 PALM RIVER AT MOUTH AT TAMPA, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	2.76	-0.84	2.77	-1.28	3.56	-0.38	1.98	-0.52
2	---	---	---	---	---	---	2.91	-1.39	2.70	-0.48	1.58	-0.72
3	---	---	---	---	---	---	2.94	-1.22	2.79	-0.37	1.57	-0.80
4	---	---	---	---	2.95	-1.23	2.87	-0.99	2.53	0.22	1.27	-1.22
5	---	---	---	---	3.14	-0.99	2.70	0.66	2.01	-0.03	0.31	-1.46
6	---	---	---	---	2.85	1.11	2.17	-0.86	2.23	0.08	6.07	2.04
7	---	---	2.53	0.49	2.57	-0.91	1.95	0.38	2.20	-0.12	2.89	0.68
8	---	---	2.63	-1.36	2.55	-0.84	1.76	-0.19	2.23	-0.24	2.35	-0.14
9	---	---	2.49	-1.11	2.05	-0.72	1.56	-0.06	1.84	-0.61	2.11	-0.35
10	---	---	2.34	-1.16	1.73	-0.23	1.83	-0.48	1.78	-0.79	2.00	-0.86
11	---	---	1.73	-0.80	1.82	0.21	1.95	-0.70	1.40	-0.69	2.25	-0.84
12	---	---	1.88	-0.68	1.89	-0.16	1.95	-0.85	2.95	-0.15	2.45	-0.47
13	---	---	1.55	-0.42	2.01	-0.64	2.21	-0.57	2.62	-1.01	2.55	-0.26
14	---	---	1.46	-0.50	2.36	-0.47	2.39	-0.76	2.95	-0.97	2.53	-0.05
15	---	---	1.70	-0.51	2.39	-0.77	1.27	-0.89	2.56	-0.89	4.12	1.01
16	---	---	1.52	-0.91	2.25	-1.05	2.57	-0.83	2.39	-0.92	3.12	0.48
17	---	---	1.80	-1.04	2.37	-1.18	2.79	-0.55	2.25	-0.92	2.66	0.01
18	---	---	1.95	-1.11	2.41	-1.08	2.98	-0.46	2.39	-0.46	2.37	-0.69
19	---	---	2.31	-0.86	2.66	-0.87	3.25	-0.24	2.12	-0.17	2.39	-0.98
20	---	---	2.33	-0.98	2.62	-0.86	2.35	-0.42	1.95	-0.16	1.90	-1.04
21	---	---	2.22	-1.06	2.65	-0.51	2.06	-0.64	2.14	-0.33	1.47	-1.79
22	---	---	2.51	-0.77	2.38	1.19	1.65	0.05	2.38	-0.52	2.26	-0.76
23	---	---	2.33	-0.80	2.13	-0.67	1.63	-0.56	2.42	-0.57	2.30	-0.87
24	---	---	2.14	---	1.75	-0.85	1.85	-0.37	2.41	-0.90	2.24	-0.89
25	---	---	1.83	-0.87	1.67	-0.24	1.96	-0.49	2.19	-1.09	2.30	-1.13
26	---	---	1.52	-1.00	1.76	-0.08	2.08	-0.71	2.52	-1.07	5.19	-1.06
27	---	---	1.35	-0.75	1.95	-0.42	2.26	-0.93	2.63	-1.12	3.46	0.74
28	---	---	1.61	-0.38	1.99	-0.81	2.38	-1.28	2.64	-0.94	2.63	0.09
29	---	---	1.63	-0.27	2.39	-1.25	2.58	-1.23	2.73	-0.68	2.35	-0.31
30	---	---	2.19	-0.21	2.54	-0.99	2.81	-1.03	2.66	-0.58	2.37	-0.43
31	---	---	2.42	-0.55	---	---	2.99	-0.91	2.41	-0.69	---	---
MAX	---	---	---	---	---	---	3.25	0.66	3.56	0.22	6.07	2.04
MIN	---	---	---	---	---	---	1.27	-1.39	1.40	-1.12	0.31	-1.79



02301805 PALM RIVER AT MOUTH AT TAMPA, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 2001 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface and near the bottom.

REMARKS.--Specific conductance records poor, temperature records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 51,200 microsiemens, May 7, 2002; bottom sensor maximum, 50,500 microsiemens, July 31, 2001; top sensor minimum, 137 microsiemens, Sept. 14, 2004; bottom sensor minimum, 148 microsiemens, Sept. 12, 2004.

TEMPERATURE.--Top sensor maximum, 35.6°C, July 8, 2003; bottom sensor maximum, 36.3°C, July 8, 2003; top sensor minimum, 12.7°C, Jan. 7, 2003; bottom sensor minimum, 10.9°C, Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 41,800 microsiemens, Dec.4, June 5; bottom sensor maximum, 43,200 microsiemens, Oct. 26; top sensor minimum, 137 microsiemens, Sept. 14; bottom sensor minimum, 148 microsiemens, Sept. 12.

TEMPERATURE.--Top sensor maximum, 34.8°C, June 24; bottom sensor maximum, 34.2°C, June 12; top sensor minimum, 12.8°C, Jan. 11; bottom sensor minimum, 11.9°C, Dec. 22, Jan. 11.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	30,300	19,000	31,000	17,100	37,800	23,400	36,800	23,500	35,400	18,600	30,700	19,300				
2	34,400	17,600	29,100	19,400	38,600	24,500	37,500	23,300	33,300	20,800	30,700	19,500				
3	35,500	20,800	---	---	40,200	23,400	37,800	24,600	32,100	20,600	32,400	22,300				
4	32,400	21,600	---	---	41,800	26,100	37,800	25,300	34,900	22,400	33,700	20,200				
5	40,100	21,900	---	---	37,900	23,400	38,700	21,400	36,800	20,600	34,600	23,100				
6	34,600	22,600	---	---	38,800	20,100	38,200	16,300	36,600	23,800	37,300	20,900				
7	38,900	22,100	---	---	40,400	17,300	---	---	---	---	32,100	19,800				
8	37,700	23,600	---	---	40,000	22,600	39,800	28,300	---	---	29,800	13,400				
9	35,600	21,700	---	---	38,300	23,900	39,600	26,500	31,900	19,000	34,200	12,000				
10	34,100	19,200	---	---	39,200	27,000	---	---	33,600	20,500	31,200	18,100				
11	34,600	16,500	---	---	39,400	25,400	39,300	23,900	34,500	17,700	32,400	20,400				
12	31,100	17,200	---	---	39,100	25,400	39,300	22,500	36,100	18,700	33,800	21,900				
13	33,200	18,500	---	---	38,800	23,600	38,300	27,100	33,500	19,600	34,500	21,900				
14	31,900	20,000	---	---	39,200	7,950	39,700	24,400	36,100	24,100	34,800	23,100				
15	26,700	17,100	---	---	31,000	19,100	39,900	26,500	35,600	22,100	35,700	22,700				
16	32,500	19,500	---	---	35,000	19,200	39,900	26,600	35,100	15,300	34,700	21,400				
17	28,500	18,800	---	---	35,700	21,500	38,800	26,000	35,800	22,700	---	---				
18	22,800	20,700	---	---	37,800	22,000	39,700	25,100	---	---	---	---				
19	22,700	19,100	---	---	36,900	14,300	36,800	20,900	36,800	18,900	---	---				
20	29,700	12,500	35,400	18,500	36,800	18,000	38,900	19,300	37,200	25,500	---	---				
21	31,900	17,900	35,300	23,100	37,500	23,200	38,900	25,500	38,200	22,300	---	---				
22	36,400	16,100	36,100	21,900	40,200	23,400	38,400	21,300	38,100	21,200	---	---				
23	31,200	15,200	38,200	23,800	39,900	18,600	39,000	26,500	38,200	21,600	---	---				
24	35,800	15,100	38,600	24,900	40,100	24,000	39,300	28,500	38,700	13,800	---	---				
25	38,200	19,800	38,000	24,300	37,300	26,000	39,600	22,800	27,300	8,270	---	---				
26	39,700	17,700	37,300	18,400	38,200	23,200	39,100	19,400	27,600	13,500	---	---				
27	37,000	24,600	37,700	19,500	38,500	25,900	40,400	11,800	---	---	---	---				
28	35,700	21,300	38,000	21,700	38,400	23,100	32,100	22,000	---	---	---	---				
29	34,700	19,000	---	---	39,500	27,000	33,900	22,000	32,200	19,700	---	---				
30	32,900	23,600	38,400	22,900	40,900	26,500	34,700	20,300	---	---	---	---				
31	34,400	22,500	---	---	40,300	26,200	35,300	22,200	---	---	---	---				
MONTH	40,100	12,500	---	---	41,800	7,950	---	---	---	---	---	---				

## 02301805 PALM RIVER AT MOUTH AT TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	41,100	38,700	30,900	21,900	27,900	11,600	23,800	7,920
2	---	---	---	---	---	---	33,000	19,900	23,300	10,200	22,400	12,100
3	---	---	---	---	---	---	31,700	24,000	20,900	9,610	26,500	13,400
4	---	---	---	---	41,700	39,600	30,800	24,300	21,500	8,230	---	---
5	---	---	---	---	41,800	37,300	31,300	25,700	19,500	13,200	---	---
6	---	---	---	---	41,200	35,900	28,600	21,700	17,600	13,100	15,500	1,380
7	---	---	37,000	29,100	39,600	36,000	26,600	22,700	15,800	3,880	2,250	903
8	---	---	37,300	35,100	39,800	32,800	28,100	18,900	11,000	3,870	903	234
9	---	---	37,900	34,800	40,800	19,300	27,200	22,500	12,600	4,160	268	178
10	---	---	38,000	23,000	38,900	18,700	29,700	25,500	16,400	5,370	343	166
11	---	---	38,300	36,200	38,100	30,100	30,400	26,200	20,300	10,500	410	164
12	---	---	38,100	35,100	39,200	34,300	31,700	26,400	12,800	2,290	---	---
13	---	---	39,200	36,900	38,000	14,100	32,500	27,700	4,300	1,580	---	---
14	---	---	39,400	36,700	37,700	14,100	32,700	29,300	4,920	1,400	764	137
15	---	---	39,000	37,500	37,300	23,500	32,800	28,300	9,770	3,360	3,540	674
16	---	---	38,800	37,700	35,700	20,100	36,000	25,700	11,400	9,220	3,420	516
17	---	---	39,000	37,500	38,000	33,500	34,700	22,800	14,700	7,220	572	326
18	---	---	39,500	28,100	38,300	31,700	28,900	13,800	15,300	9,410	925	337
19	---	---	39,200	36,600	39,700	34,500	24,700	12,100	13,400	11,500	2,820	740
20	---	---	39,500	38,300	39,000	32,500	20,800	7,910	15,300	12,900	---	---
21	---	---	39,800	38,500	39,700	32,600	19,900	8,540	15,700	13,200	---	---
22	---	---	39,500	38,200	38,900	29,200	22,100	14,300	16,500	13,900	---	---
23	---	---	40,500	38,300	34,900	30,200	25,400	18,600	17,600	15,400	12,700	8,630
24	---	---	40,100	38,300	32,600	27,400	27,300	16,600	20,900	15,100	14,400	11,300
25	---	---	40,200	36,400	35,600	29,200	28,100	21,200	21,500	3,560	---	---
26	---	---	38,100	28,400	33,700	27,200	29,100	26,500	15,600	3,960	---	---
27	---	---	40,400	21,200	33,300	26,900	28,300	24,600	20,600	11,200	7,360	1,410
28	---	---	41,500	39,600	30,600	12,500	28,000	9,900	22,100	11,900	6,840	1,930
29	---	---	41,300	37,600	30,000	23,000	26,200	14,700	22,000	17,900	1,930	1,020
30	---	---	40,900	38,200	29,100	23,000	27,600	15,600	22,200	19,100	1,720	487
31	---	---	40,900	37,900	---	---	30,700	23,900	22,300	15,700	---	---
MONTH	---	---	---	---	---	---	36,000	7,910	27,900	1,400	---	---

## 02301805 PALM RIVER AT MOUTH AT TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	30,000	14,800	36,500	19,500	36,200	32,400	38,900	34,900	36,300	34,100	29,800	25,000
2	32,800	20,600	29,100	22,000	37,900	32,800	38,800	35,100	35,700	31,600	33,500	26,100
3	32,100	19,600	28,300	26,400	37,900	34,100	38,900	34,000	38,000	30,700	33,700	27,300
4	31,200	23,300	29,100	26,100	38,000	33,300	38,800	34,400	39,100	31,200	34,700	28,300
5	32,700	22,500	30,600	26,500	38,500	33,000	39,500	34,500	37,000	33,500	35,000	28,100
6	33,200	26,800	33,500	26,200	38,500	32,400	39,600	34,300	37,300	33,700	33,600	27,500
7	33,700	27,000	36,200	28,200	39,500	33,100	39,200	30,600	37,600	32,300	32,400	23,100
8	33,100	27,600	---	---	40,000	33,600	39,800	35,400	36,200	26,500	30,200	21,900
9	34,400	28,200	---	---	39,900	33,500	39,500	35,300	35,000	26,900	32,500	24,000
10	35,200	29,000	---	---	40,100	34,700	39,500	33,800	34,600	30,700	33,700	24,300
11	35,400	30,100	---	---	40,100	34,900	39,200	33,200	35,600	30,600	31,300	27,200
12	34,800	27,800	---	---	39,000	32,900	39,100	34,700	37,400	31,400	32,800	27,600
13	34,900	25,100	---	---	38,800	33,300	39,300	34,200	37,500	31,000	33,600	27,700
14	34,000	28,300	---	---	39,000	19,400	39,800	33,700	38,700	32,400	34,900	29,600
15	32,200	20,200	---	---	36,700	23,100	40,100	32,100	38,300	32,000	36,300	30,300
16	39,400	22,900	---	---	37,900	31,600	40,300	33,100	37,400	29,100	36,300	27,600
17	29,400	25,200	---	---	37,400	30,000	41,100	34,800	37,500	29,500	---	---
18	31,000	21,400	---	---	36,900	31,600	39,600	33,600	37,600	27,500	---	---
19	28,700	20,900	---	---	37,000	30,900	38,700	30,600	38,600	31,500	---	---
20	36,100	12,500	37,400	28,500	37,100	30,800	40,900	25,800	42,800	33,800	---	---
21	34,600	28,400	38,100	28,400	37,500	31,700	40,500	27,900	40,000	34,700	---	---
22	34,200	29,700	37,600	31,000	38,400	33,800	40,300	31,100	40,400	33,400	---	---
23	34,900	26,700	37,700	32,300	38,700	34,400	40,600	27,300	40,600	33,600	---	---
24	36,100	26,300	37,900	33,500	38,800	33,000	40,900	33,000	41,000	22,300	---	---
25	36,000	25,100	38,200	31,300	38,400	33,400	40,600	34,600	34,900	21,900	---	---
26	43,200	24,400	38,200	31,400	38,600	34,200	40,000	35,900	32,000	20,400	---	---
27	35,000	25,100	38,500	31,600	38,500	35,100	40,200	21,000	25,200	20,400	---	---
28	34,900	32,100	38,100	32,400	38,800	35,300	32,400	24,900	30,000	22,900	---	---
29	39,900	19,500	37,900	28,700	38,900	35,400	37,100	30,000	30,300	26,400	---	---
30	42,400	23,800	36,200	32,200	39,600	34,300	35,700	32,100	---	---	---	---
31	38,500	13,200	---	---	39,500	34,500	36,300	31,600	---	---	---	---
MONTH	43,200	12,500	---	---	40,100	19,400	41,100	21,000	42,800	20,400	---	---
1	---	---	---	---	41,700	39,800	38,800	27,500	30,600	13,800	25,800	18,400
2	---	---	---	---	---	---	38,900	22,700	25,300	20,000	24,200	21,000
3	---	---	---	---	---	---	39,600	27,200	24,100	18,500	26,200	22,300
4	---	---	---	---	42,100	39,800	37,700	29,700	28,700	15,900	26,300	23,600
5	---	---	---	---	42,100	37,500	40,800	29,200	24,500	14,400	26,600	12,600
6	---	---	---	---	41,500	37,100	34,100	24,800	20,400	15,400	21,900	1,450
7	---	---	38,400	35,500	41,800	38,200	31,300	24,800	22,500	11,100	3,660	1,660
8	---	---	38,700	35,900	41,000	37,600	31,700	25,500	18,300	6,000	1,830	216
9	---	---	38,700	36,100	41,700	34,800	31,900	26,400	17,500	5,800	845	166
10	---	---	39,100	37,300	41,500	33,000	32,500	26,800	20,100	7,620	1,090	156
11	---	---	38,800	37,400	39,300	34,200	37,200	28,400	21,700	11,600	729	161
12	---	---	38,900	38,200	39,700	34,300	38,600	29,000	14,200	2,480	660	148
13	---	---	39,300	38,300	40,200	18,500	39,400	30,100	4,240	1,850	1,080	163
14	---	---	39,400	38,600	40,000	28,200	36,200	30,500	11,300	1,620	1,850	216
15	---	---	39,400	38,200	39,500	27,300	36,900	30,100	10,000	5,340	5,300	1,130
16	---	---	39,200	38,000	39,800	31,700	39,100	26,200	11,900	9,500	3,880	1,020
17	---	---	39,400	37,400	38,800	36,500	37,300	24,700	14,800	10,900	1,110	405
18	---	---	39,900	37,500	40,100	33,200	34,400	16,400	15,800	11,800	1,380	340
19	---	---	39,800	38,600	40,200	35,600	28,300	13,000	13,600	12,300	3,040	745
20	---	---	40,200	39,200	40,400	35,100	26,200	8,590	15,600	12,600	4,670	1,690
21	---	---	40,300	39,100	40,300	33,900	25,200	11,400	15,600	13,000	10,000	4,670
22	---	---	41,000	39,100	39,800	32,900	23,000	15,300	16,700	13,400	12,300	7,780
23	---	---	41,100	39,100	39,700	30,200	28,800	22,400	23,300	13,300	12,600	8,530
24	---	---	40,700	39,000	41,400	30,300	32,400	22,300	22,200	16,500	15,000	10,900
25	---	---	41,100	39,300	40,500	29,800	32,700	23,300	22,200	12,300	15,100	10,400
26	---	---	41,200	39,600	37,500	30,500	34,000	24,000	20,500	5,050	24,200	7,200
27	---	---	41,500	39,000	36,700	30,700	30,100	25,500	24,800	12,900	7,200	1,430
28	---	---	42,000	40,400	36,300	13,400	31,200	14,100	26,200	17,700	7,930	2,420
29	---	---	41,800	38,800	32,500	27,100	32,000	15,700	24,400	19,000	2,960	1,080
30	---	---	41,300	39,100	32,700	27,000	32,600	22,900	25,000	19,800	1,730	485
31	---	---	41,500	40,000	---	---	34,400	26,700	25,900	17,500	---	---
MONTH	---	---	---	---	---	---	40,800	8,590	30,600	1,620	26,600	148

## 02301805 PALM RIVER AT MOUTH AT TAMPA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.4	25.9	25.4	24.6	20.8	18.9	20.1	17.5	18.2	15.2	20.0	16.5
2	27.9	25.5	25.8	24.1	19.7	16.5	20.4	16.5	19.2	16.4	21.5	18.5
3	28.8	26.3	25.4	24.2	19.8	17.9	20.0	17.5	20.3	14.6	21.2	19.5
4	28.6	26.8	25.7	24.3	20.9	17.4	20.3	18.1	19.6	14.9	22.4	19.3
5	28.7	26.6	27.5	24.7	21.0	19.1	21.5	18.3	21.6	17.0	23.4	19.6
6	28.8	25.8	27.1	24.9	19.4	15.6	22.1	17.1	22.4	18.6	25.2	20.5
7	28.7	26.6	27.5	22.5	18.5	14.4	---	---	---	---	23.8	21.0
8	28.4	25.6	26.8	23.2	19.2	15.1	18.0	15.1	---	---	23.1	18.9
9	28.7	25.2	25.6	23.6	19.9	15.9	18.5	15.2	20.5	15.4	22.1	18.8
10	27.8	25.7	25.5	23.7	20.1	18.3	---	---	22.0	17.7	22.3	18.2
11	28.2	26.1	25.8	21.8	19.0	16.5	16.0	12.8	22.2	18.3	22.3	16.4
12	28.1	26.8	26.2	22.9	20.2	15.0	18.6	13.7	22.6	18.5	22.3	17.8
13	30.0	26.6	26.1	23.3	19.5	16.8	19.3	13.9	23.1	20.3	23.0	18.0
14	29.4	27.8	24.1	21.6	20.6	17.6	17.9	14.0	21.6	20.1	22.0	18.8
15	28.6	25.9	25.2	22.5	18.5	15.3	18.1	13.7	21.3	19.6	21.9	18.7
16	27.8	24.4	24.9	22.8	19.1	15.9	18.3	13.1	20.3	16.7	23.4	21.1
17	28.2	25.2	24.9	22.6	18.8	14.3	17.8	13.6	19.4	16.3	---	---
18	27.9	25.2	24.7	23.1	17.8	13.7	17.7	16.4	---	---	---	---
19	28.0	25.4	24.4	21.7	17.2	14.7	18.2	15.3	19.8	15.2	---	---
20	26.4	25.5	23.0	19.2	15.9	13.9	17.2	14.7	19.6	14.9	---	---
21	27.7	24.9	23.5	20.8	16.5	13.8	17.9	13.5	21.0	17.7	---	---
22	26.7	25.0	24.1	20.8	17.5	13.7	17.3	14.7	22.0	18.8	---	---
23	27.7	24.9	23.7	19.9	18.4	15.0	17.3	14.7	22.2	19.4	---	---
24	27.3	23.2	23.5	21.0	19.2	16.6	18.0	13.9	22.4	18.0	---	---
25	26.5	24.2	23.4	22.4	17.5	15.1	18.5	15.4	20.1	18.0	---	---
26	27.4	24.8	25.8	21.2	18.7	14.6	20.0	16.9	21.3	19.2	---	---
27	27.8	25.8	25.0	22.4	18.4	14.7	22.1	17.4	---	---	---	---
28	26.9	25.6	24.8	22.0	18.2	14.9	18.3	15.3	---	---	---	---
29	27.4	23.2	---	---	18.6	15.8	18.7	15.3	19.8	16.6	---	---
30	26.4	23.5	20.4	18.4	18.9	15.8	17.8	15.0	---	---	---	---
31	26.0	24.4	---	---	20.8	16.6	17.2	14.6	---	---	---	---
MONTH	30.0	23.2	---	---	21.0	13.7	---	---	---	---	---	---
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	32.0	30.1	32.3	29.6	30.6	28.2	33.9	26.6
2	---	---	---	---	---	---	31.6	29.0	29.5	28.1	31.8	27.8
3	---	---	---	---	---	---	32.7	28.7	30.2	28.4	31.3	29.0
4	---	---	---	---	31.5	29.6	32.7	28.8	29.8	28.7	---	---
5	---	---	---	---	30.8	28.5	32.7	29.4	31.0	28.6	---	---
6	---	---	---	---	31.8	27.7	32.2	28.5	31.2	29.1	26.8	25.5
7	---	---	27.9	24.6	32.3	29.0	31.5	28.9	30.4	26.4	28.3	25.3
8	---	---	28.0	24.5	31.2	28.5	32.8	28.5	29.7	26.7	26.6	25.9
9	---	---	27.7	24.9	33.1	26.7	34.6	29.7	31.8	26.7	27.3	25.8
10	---	---	26.7	25.5	33.3	26.1	33.2	29.3	32.2	27.9	27.7	25.9
11	---	---	27.1	25.3	33.3	29.8	32.7	30.0	32.8	28.2	28.3	26.5
12	---	---	27.4	25.6	33.9	30.2	31.7	29.5	30.3	27.8	27.9	26.7
13	---	---	27.6	25.9	33.8	27.4	32.6	30.0	28.3	26.6	27.9	27.0
14	---	---	27.5	25.9	33.7	27.4	32.8	28.7	27.7	26.7	27.3	26.9
15	---	---	28.6	25.8	32.5	27.3	32.0	30.5	30.0	26.6	27.6	26.8
16	---	---	27.6	25.8	32.8	27.9	31.9	29.8	31.5	26.7	28.7	26.9
17	---	---	28.1	25.5	31.8	29.2	30.7	27.8	31.2	26.5	29.0	27.2
18	---	---	28.3	24.9	31.9	28.3	30.0	27.8	31.5	26.8	31.4	27.4
19	---	---	28.2	25.5	32.7	29.6	29.5	27.0	33.4	27.1	28.9	27.4
20	---	---	28.5	25.9	32.6	30.2	28.4	26.2	33.5	27.7	---	---
21	---	---	28.8	25.9	32.2	30.7	31.3	26.6	31.8	28.0	---	---
22	---	---	29.2	26.4	32.3	30.7	31.8	27.6	31.3	27.7	27.2	26.2
23	---	---	29.4	26.5	33.9	30.3	32.7	28.7	31.5	28.4	27.7	26.0
24	---	---	29.5	26.8	34.8	29.8	33.7	28.9	29.7	28.5	28.1	26.3
25	---	---	30.2	27.0	33.8	29.5	34.1	28.3	31.4	25.8	---	---
26	---	---	31.6	27.8	34.0	30.5	31.2	29.4	33.3	25.6	---	---
27	---	---	31.3	28.3	33.7	29.7	31.4	28.6	31.0	28.6	26.8	24.9
28	---	---	31.3	28.5	31.0	29.0	31.9	27.4	32.0	27.2	27.4	25.3
29	---	---	31.8	28.5	32.3	28.8	30.8	27.2	32.1	28.0	27.8	25.7
30	---	---	32.2	29.5	32.3	28.8	31.5	27.7	31.3	28.8	27.9	25.9
31	---	---	32.1	30.1	---	---	32.5	28.4	33.3	28.7	---	---
MONTH	---	---	---	---	---	---	34.6	26.2	33.5	25.6	---	---



## 02301985 UPPER HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.

LOCATION.--Lat 28° 12'51", long 82° 07'49" (1927 North American datum), in NE $\frac{1}{4}$  sec.20, T.26 S., R.22 E., Pasco County, Hydrologic Unit 03100205, on right bank, 70 ft upstream from Upper Hillsborough Transect Site, 1.5 mi east of Zephyrhills Municipal Airport, and 3.5 mi southeast of Zephyrhills.

DRAINAGE AREA.--47.3 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 75.25 ft, Sept. 29, 2004; minimum, 67.04 ft, June 16, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 75.25 ft, Sept. 29; minimum, 67.59 ft, June 3.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69.78	68.27	68.11	68.18	69.62	71.25	68.30	68.62	67.77	68.67	68.61	71.37
2	69.87	68.28	68.10	68.18	69.57	70.95	68.27	68.46	67.70	68.69	68.57	71.18
3	69.86	68.29	68.09	68.18	69.47	70.71	68.25	68.47	67.62	68.78	68.74	70.85
4	69.72	68.27	68.09	68.17	69.35	70.57	68.23	68.53	67.65	68.76	68.91	70.51
5	69.53	68.29	68.10	68.16	69.26	70.41	68.21	68.49	67.91	68.69	69.34	71.17
6	69.35	68.34	68.09	68.16	69.17	70.22	68.19	68.44	68.12	68.62	69.79	74.03
7	69.20	68.32	68.06	68.12	69.06	70.00	68.18	68.39	68.29	68.68	70.22	74.64
8	69.12	68.27	68.07	68.11	68.90	69.77	68.18	68.35	68.26	68.60	72.13	74.94
9	68.99	68.25	68.07	68.15	68.78	69.51	68.18	68.31	68.24	68.46	72.88	75.02
10	68.89	68.24	68.09	68.23	68.70	69.28	68.16	68.27	68.30	68.35	72.87	75.07
11	68.83	68.27	68.08	68.18	68.65	69.07	68.16	68.24	68.46	68.26	72.47	75.05
12	68.85	68.27	68.06	68.15	68.62	68.89	68.81	68.22	68.32	68.24	72.02	74.96
13	68.86	68.26	68.05	68.15	68.58	68.76	68.73	68.19	68.25	68.20	71.59	74.88
14	68.81	68.22	68.38	68.13	68.58	68.66	68.53	68.17	68.81	68.15	71.53	74.80
15	68.74	68.18	---	68.13	68.64	68.62	68.49	68.19	68.94	68.10	71.67	74.69
16	68.66	68.16	68.31	68.12	68.59	68.89	68.44	68.32	68.57	68.14	71.63	74.57
17	68.60	68.16	68.32	68.15	68.56	68.91	68.41	68.26	68.51	68.32	71.69	74.43
18	68.57	68.16	68.40	68.51	68.53	68.82	68.37	68.22	68.43	68.38	72.11	74.30
19	68.51	68.22	68.43	68.59	68.51	68.87	68.33	68.18	68.35	68.68	72.29	74.15
20	68.48	68.23	68.39	68.56	68.49	69.07	68.30	68.15	68.29	68.99	72.12	74.00
21	68.45	68.19	68.35	68.62	68.47	69.08	68.25	68.12	68.26	69.14	71.96	73.93
22	68.40	68.16	68.33	68.67	68.43	68.95	68.22	68.10	68.21	69.13	72.08	73.79
23	68.36	68.14	68.32	68.62	68.42	68.78	68.19	68.07	68.14	69.13	72.41	73.61
24	68.32	68.14	68.30	68.57	68.76	68.65	68.17	68.04	68.09	69.08	72.52	73.43
25	68.29	68.14	68.27	68.52	70.86	68.57	68.14	68.03	68.03	68.92	72.46	73.26
26	68.27	68.14	68.25	68.49	71.01	68.51	68.13	68.00	68.01	68.75	72.44	73.75
27	68.27	68.14	68.23	69.19	71.02	68.47	68.14	67.94	68.35	69.00	72.39	74.87
28	68.27	68.14	68.22	69.17	71.17	68.43	68.15	67.89	68.67	68.83	72.27	75.13
29	68.39	68.10	68.21	69.07	71.41	68.39	68.13	67.82	68.97	68.81	72.05	75.22
30	68.33	68.09	68.19	69.21	---	68.37	68.26	67.77	69.12	68.68	71.81	75.09
31	68.29	---	68.19	69.43	---	68.34	---	67.76	---	68.58	71.57	---
MEAN	68.80	68.21	---	68.45	69.21	69.22	68.28	68.19	68.29	68.64	71.46	73.89
MAX	69.87	68.34	---	69.43	71.41	71.25	68.81	68.62	69.12	69.14	72.88	75.22
MIN	68.27	68.09	---	68.11	68.42	68.34	68.13	67.76	67.62	68.10	68.57	70.51

02301988 HILLSBOROUGH RIVER AT STATE HIGHWAY 39 NEAR CRYSTAL SPRINGS, FL.

LOCATION.--Lat 28° 11'35", long 82° 09'55" (1927 North American datum), in NE 1/4 sec.25, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, on right bank, 75 ft downstream from State Highway 39 bridge, 0.8 mi north of town of Crystal Springs, and 45 mi upstream from mouth.

DRAINAGE AREA.--72.5 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 2003 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	10	7.5	12	46	129	12	35	4.8	28	20	129
2	49	10	7.5	12	44	115	11	35	4.7	23	20	118
3	49	9.9	7.3	12	41	99	11	28	4.6	27	31	107
4	46	9.7	7.1	12	37	90	10	30	4.5	29	47	100
5	41	10	7.1	12	34	81	9.8	24	4.8	26	46	173
6	35	12	7.1	11	31	72	9.3	20	5.9	22	60	1,030
7	30	12	7.1	11	28	63	9.0	17	8.1	22	96	1,290
8	29	11	7.1	11	26	55	8.8	15	8.3	22	269	1,200
9	24	10	6.9	12	23	47	8.7	13	9.1	18	374	1,270
10	22	10	6.8	14	21	40	8.2	12	11	15	392	1,340
11	20	10	7.0	14	20	33	8.2	11	17	14	322	1,300
12	20	10	7.0	13	19	28	29	10	13	13	235	1,180
13	20	10	6.9	12	19	25	33	9.5	10	12	171	1,090
14	19	9.7	18	12	19	22	24	9.1	19	11	165	1,020
15	18	9.3	22	12	22	21	22	8.9	40	10	179	953
16	17	9.0	16	12	21	38	19	13	21	11	171	886
17	17	8.7	16	11	20	41	17	11	17	14	159	816
18	16	8.6	17	22	18	33	16	10	15	15	174	746
19	15	9.5	18	25	17	29	15	9.0	13	24	205	678
20	14	10	17	21	17	31	14	8.4	12	32	197	614
21	14	9.3	17	21	16	32	12	7.9	12	39	168	588
22	13	8.8	16	22	16	29	12	7.4	11	34	165	534
23	12	8.4	16	21	16	25	11	6.9	9.5	31	219	471
24	11	8.0	15	20	28	21	10	6.6	8.5	29	266	410
25	11	7.9	15	19	128	19	9.3	6.4	7.8	25	243	374
26	11	7.9	14	17	114	17	8.9	6.1	7.9	21	232	637
27	10	7.6	14	38	113	15	8.7	5.9	11	27	221	1,400
28	10	7.6	14	37	116	14	9.0	5.6	24	26	204	1,420
29	13	7.7	13	31	130	13	8.6	5.5	32	24	178	1,430
30	12	7.6	13	32	---	13	11	5.2	59	21	156	1,300
31	11	---	13	39	---	12	---	4.9	---	18	146	---
TOTAL	675	280.2	376.4	570	1,200	1,302	395.5	397.3	425.5	683	5,531	24,604
MEAN	21.8	9.34	12.1	18.4	41.4	42.0	13.2	12.8	14.2	22.0	178	820
MAX	49	12	22	39	130	129	33	35	59	39	392	1,430
MIN	10	7.6	6.8	11	16	12	8.2	4.9	4.5	10	20	100
MED	17	9.6	13	14	23	31	11	9.5	11	22	174	851
AC-FT	1,340	556	747	1,130	2,380	2,580	784	788	844	1,350	10,970	48,800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	21.8	9.34	12.1	18.4	38.8	74.3	23.0	11.1	57.5	116	270	462
MAX	21.8	9.34	12.1	18.4	41.4	107	32.8	12.8	101	210	362	820
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2004)
MIN	21.8	9.34	12.1	18.4	36.2	42.0	13.2	9.45	14.2	22.0	178	104
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2003)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 2003 - 2004

ANNUAL TOTAL	36,439.9	
ANNUAL MEAN	99.6	99.6
HIGHEST ANNUAL MEAN		99.6
LOWEST ANNUAL MEAN		99.6
HIGHEST DAILY MEAN	1,430	1,430
LOWEST DAILY MEAN	4.5	4.5
ANNUAL SEVEN-DAY MINIMUM	4.8	4.8
MAXIMUM PEAK FLOW	1,460	1,460
MAXIMUM PEAK STAGE	60.48	60.48
ANNUAL RUNOFF (AC-FT)	72,280	72,130
10 PERCENT EXCEEDS	204	204
50 PERCENT EXCEEDS	17	17
90 PERCENT EXCEEDS	7.9	7.9

02301988 HILLSBOROUGH RIVER AT STATE HIGHWAY 39 NEAR CRYSTAL SPRINGS, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 2003 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors.

REMARKS.--Specific conductance and temperature records fair.

EXTREMS FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 613 microsiemens, Sept. 30, 2003; minimum, 82 microsiemens, Sept. 7, 2004.

TEMPERATURE.--Maximum, 27.6°C, Sept. 17, 18, 2004; minimum, 12.7°C, Dec. 21, 2003.

EXTREMS FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 571 microsiemens, Oct. 18; minimum, 82 microsiemens, Sept. 7.

TEMPERATURE.--Maximum, 27.6°C, Sept. 17, 18; minimum, 12.7°C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	490	423	451	408	432	405	332	324	216	200
2	---	---	490	429	456	410	428	407	325	314	230	212
3	---	---	455	433	519	412	419	407	316	312	243	229
4	---	---	476	434	552	421	443	408	322	315	254	242
5	---	---	480	439	497	415	428	410	336	320	257	254
6	---	---	481	430	472	412	421	407	335	325	259	257
7	337	299	491	446	419	409	412	399	341	333	268	259
8	365	310	527	491	437	408	410	405	342	338	280	268
9	392	325	530	466	463	413	408	403	355	341	293	274
10	422	336	487	433	474	419	411	403	358	351	297	286
11	411	345	504	462	464	422	412	408	365	357	308	297
12	476	354	491	440	455	414	415	408	372	365	324	307
13	510	360	471	457	455	423	416	407	376	371	333	320
14	500	359	484	428	464	399	410	406	377	373	357	332
15	474	376	469	454	449	411	410	407	387	377	358	345
16	494	376	459	419	435	404	410	407	387	381	360	320
17	525	369	447	420	477	413	414	407	383	379	339	325
18	571	387	442	426	415	408	413	347	382	374	345	338
19	521	423	462	424	417	412	409	386	381	374	349	343
20	566	433	459	427	413	395	395	383	381	375	344	327
21	521	458	463	445	397	389	397	387	380	376	327	309
22	505	442	484	461	413	394	387	366	382	377	311	308
23	480	419	494	452	433	392	366	349	383	378	320	310
24	504	455	468	450	436	392	353	346	386	298	332	320
25	507	434	509	466	421	392	362	348	303	239	345	332
26	471	438	517	494	401	394	366	358	260	246	354	342
27	477	447	505	474	403	397	367	344	257	241	392	354
28	491	426	500	397	404	398	351	327	244	225	393	361
29	524	484	500	408	408	399	354	349	225	200	430	366
30	538	431	413	407	418	403	350	341	---	---	401	372
31	485	427	---	---	423	402	342	327	---	---	433	377
MONTH	---	---	530	397	552	389	443	327	387	200	433	200



02301988 HILLSBOROUGH RIVER AT STATE HIGHWAY 39 NEAR CRYSTAL SPRINGS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	MAX	MIN	MAX	MIN	MAX	MIN
1	435	378	362	263	356	303	359	293	356	353	201	192
2	382	379	312	283	326	299	389	359	375	355	209	200
3	387	382	325	287	319	295	391	370	377	329	245	207
4	389	384	328	321	341	293	370	355	359	308	244	237
5	393	385	351	328	333	291	359	355	315	293	252	149
6	394	385	348	345	386	281	355	349	294	263	149	86
7	401	385	351	339	386	268	354	345	264	199	91	82
8	422	389	360	342	422	293	347	341	211	113	100	85
9	423	391	377	349	389	244	363	346	115	104	103	98
10	423	386	395	356	393	267	371	363	108	102	106	102
11	429	386	414	358	388	254	375	371	132	108	107	101
12	474	311	424	359	388	360	381	375	157	132	114	102
13	350	319	447	358	383	363	389	381	184	157	115	108
14	343	330	413	359	397	376	394	388	190	184	113	103
15	352	341	464	355	376	269	398	392	187	165	109	103
16	373	352	387	334	392	314	395	389	165	160	112	108
17	381	373	401	356	412	392	404	386	161	155	115	109
18	384	375	395	348	412	401	412	386	156	141	115	107
19	394	372	401	347	403	395	402	381	142	135	112	106
20	379	373	422	345	399	392	406	389	149	135	112	106
21	385	369	400	343	400	394	389	341	170	149	113	107
22	391	375	389	339	399	395	341	300	181	169	120	112
23	395	376	376	335	399	396	300	281	179	162	123	119
24	412	389	397	332	399	395	283	279	174	166	134	123
25	418	391	393	330	397	395	287	281	175	170	148	134
26	431	385	396	326	399	387	302	286	173	170	147	113
27	437	387	351	322	387	381	316	302	172	167	114	89
28	432	362	344	318	391	345	363	314	167	165	96	87
29	410	384	339	314	366	247	371	363	171	165	105	96
30	432	361	341	309	320	252	365	356	179	170	101	98
31	---	---	347	307	---	---	356	353	192	177	---	---
MONTH	474	311	464	263	422	244	412	279	377	102	252	82



02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL.

LOCATION.--Lat 28° 11'07", long 82° 11'03" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.35, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, near center span, on downstream side of bridge on former State Highway 23, 0.2 mi upstream from Crystal Springs, 1.5 mi west of village of Crystal Springs, and 3.0 mi south of Zephyrhills.

DRAINAGE AREA.--82 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1941 to August 1964 (fragmentary); September 1964 to September 1983 (gage heights only), incomplete; October 1983 to current year. Records of gage heights prior to October 1963 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-98-3A: 1997 (M and daily).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Sept. 12, 1941, nonrecording gage (reference point) at same site at datum 63.30 ft higher; Sept. 12, 1941, to May 14, 1964, nonrecording gage at same site at datum 50.97 ft higher; May 14, 1964, to June 1, 1994, water-stage recorder at same site at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Discharge measurements made at this site are used in conjunction with those made downstream from Crystal Springs (station 02302000) to determine spring flow. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	30	22	23	58	e162	27	e42	16	44	37	e174
2	80	30	22	23	53	e150	26	e45	16	39	37	149
3	79	29	23	23	49	e129	26	e40	16	41	58	129
4	75	29	23	23	e49	e115	25	e41	16	44	85	129
5	67	29	23	23	e45	e104	25	e35	16	42	80	232
6	59	e33	22	23	e43	e94	24	e31	18	38	99	1,360
7	e55	e33	22	22	e40	e83	e24	e28	20	36	124	1,610
8	e55	31	22	22	e37	e73	e23	e25	21	35	e336	1,470
9	46	30	22	23	e34	e62	e23	e24	23	31	459	1,510
10	44	29	22	26	e33	e54	e23	e22	26	28	495	1,540
11	43	29	22	24	e31	e48	e23	e21	35	26	e418	1,530
12	42	29	22	23	e30	45	e53	e19	26	26	340	1,430
13	42	28	22	23	30	43	e54	e18	23	25	264	1,340
14	41	27	36	22	30	40	e42	e17	31	23	e253	1,280
15	40	26	35	22	33	39	e37	e15	57	22	e256	1,220
16	38	25	29	22	31	72	e35	e23	34	23	244	1,160
17	37	25	27	21	30	67	e33	e21	29	26	220	1,100
18	36	25	27	39	28	52	e30	e20	26	31	224	1,040
19	35	27	27	37	27	47	e29	e19	25	42	254	977
20	34	27	27	31	27	49	e29	e18	24	53	265	910
21	34	26	26	30	27	49	e27	e18	23	59	244	874
22	33	25	26	30	26	45	e25	e18	21	51	226	803
23	32	25	26	29	26	41	e25	e18	20	46	280	723
24	30	24	26	28	28	38	e24	e17	19	44	345	645
25	e29	24	25	28	238	36	e23	e17	18	41	302	595
26	e29	24	24	27	174	34	e22	17	19	38	279	894
27	29	24	24	57	e148	33	e21	17	22	44	267	1,620
28	29	24	24	48	e142	31	e20	17	34	45	253	1,680
29	35	23	24	39	e156	30	e19	17	43	41	231	1,670
30	33	22	24	39	---	29	e18	17	88	39	206	1,580
31	31	---	24	45	---	28	---	16	---	36	190	---
TOTAL	1,371	812	770	895	1,703	1,922	835	713	805	1,159	7,371	31,374
MEAN	44.2	27.1	24.8	28.9	58.7	62.0	27.8	23.0	26.8	37.4	238	1,046
MAX	80	33	36	57	238	162	54	45	88	59	495	1,680
MIN	29	22	22	21	26	28	18	15	16	22	37	129
AC-FT	2,720	1,610	1,530	1,780	3,380	3,810	1,660	1,410	1,600	2,300	14,620	62,230
CFSM	0.54	0.33	0.30	0.35	0.72	0.76	0.34	0.28	0.33	0.46	2.90	12.8
IN.	0.62	0.37	0.35	0.41	0.77	0.87	0.38	0.32	0.37	0.53	3.34	14.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)

MEAN	74.0	32.6	129	87.9	65.9	63.9	28.9	13.6	28.5	70.7	124	212
MAX	291	209	1,139	529	622	496	132	25.9	173	327	460	1,046
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1996)	(1996)	(2003)	(1991)	(2003)	(2004)
MIN	7.24	6.53	5.64	5.10	4.78	5.63	5.72	4.31	4.70	7.02	9.46	9.56
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(1993)	(2000)

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1990 - 2004	
ANNUAL TOTAL	61,761		49,730			
ANNUAL MEAN	169		136		77.6	
HIGHEST ANNUAL MEAN					282	1998
LOWEST ANNUAL MEAN					9.92	2000
HIGHEST DAILY MEAN	1,190	Jan 3	1,680	Sep 28	2,700	Dec 13, 1997
LOWEST DAILY MEAN	19	May 31	15	May 15	3.4	Apr 8, 1991
ANNUAL SEVEN-DAY MINIMUM	20	May 27	16	May 30	3.6	May 25, 2001
MAXIMUM PEAK FLOW			1,740	Sep 27	2,700	Dec 13, 1997
MAXIMUM PEAK STAGE			56.65	Sep 27	56.65	Sep 27, 2004
ANNUAL RUNOFF (AC-FT)	122,500		98,640		56,230	
ANNUAL RUNOFF (CFSM)	2.06		1.66		0.947	
ANNUAL RUNOFF (INCHES)	28.02		22.56		12.86	
10 PERCENT EXCEEDS	428		264		194	
50 PERCENT EXCEEDS	83		31		18	
90 PERCENT EXCEEDS	24		21		7.9	

e Estimated

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.95	52.30	52.10	52.13	52.77	---	52.12	---	51.88	52.56	52.39	---
2	52.97	52.29	52.10	52.13	52.72	---	52.10	---	51.88	52.47	52.36	53.56
3	52.96	52.28	52.11	52.13	52.67	---	52.09	---	51.88	52.52	52.60	53.45
4	52.91	52.28	52.11	52.13	---	---	52.07	---	51.87	52.57	52.88	53.45
5	52.84	52.28	52.11	52.12	---	---	52.06	---	51.89	52.53	52.84	53.85
6	52.76	---	52.10	52.12	---	---	52.04	---	51.96	52.45	53.01	56.13
7	---	---	52.09	52.09	---	---	---	---	52.04	52.41	53.22	56.51
8	---	52.31	52.08	52.08	---	---	---	---	52.05	52.39	---	56.32
9	52.61	52.29	52.09	52.12	---	---	---	---	52.13	52.30	54.53	56.37
10	52.58	52.28	52.10	52.19	---	---	---	---	52.19	52.23	54.62	56.41
11	52.56	52.27	52.10	52.15	---	---	---	---	52.42	52.18	---	56.40
12	52.54	52.27	52.09	52.12	---	52.50	---	---	52.21	52.16	54.21	56.26
13	52.54	52.25	52.08	52.11	52.30	52.45	---	---	52.14	52.14	53.95	56.12
14	52.52	52.22	52.41	52.10	52.31	52.40	---	---	52.32	52.10	---	56.02
15	52.51	52.20	52.43	52.10	52.37	52.39	---	---	52.76	52.07	---	55.92
16	52.46	52.19	52.27	52.09	52.33	52.79	---	---	52.41	52.08	53.89	55.82
17	52.44	52.17	52.24	52.07	52.30	52.75	---	---	52.30	52.16	53.79	55.72
18	52.43	52.17	52.23	52.46	52.26	52.60	---	---	52.25	52.27	53.82	55.60
19	52.40	52.22	52.25	52.46	52.23	52.54	---	---	52.21	52.49	53.95	55.49
20	52.38	52.24	52.23	52.34	52.22	52.56	---	---	52.19	52.64	53.99	55.37
21	52.37	52.20	52.20	52.30	52.22	52.56	---	---	52.17	52.69	53.92	55.32
22	52.35	52.18	52.19	52.30	52.21	52.50	---	---	52.13	52.61	53.85	55.22
23	52.33	52.17	52.19	52.29	52.21	52.43	---	---	52.09	52.55	54.05	55.10
24	52.30	52.16	52.19	52.27	52.24	52.36	---	---	52.05	52.51	54.28	54.98
25	---	52.15	52.18	52.25	53.85	52.32	---	---	52.03	52.46	54.15	54.89
26	---	52.15	52.16	52.22	53.55	52.28	---	51.91	52.05	52.39	54.08	55.38
27	52.28	52.14	52.15	52.73	---	52.25	---	51.91	52.14	52.50	54.04	56.52
28	52.27	52.14	52.15	52.66	---	52.22	---	51.91	52.42	52.53	53.99	56.60
29	52.41	52.12	52.15	52.52	---	52.19	---	51.90	52.53	52.46	53.92	56.59
30	52.35	52.10	52.14	52.50	---	52.17	---	51.89	53.04	52.41	53.82	56.46
31	52.31	---	52.13	52.62	---	52.15	---	51.89	---	52.36	53.75	---
MEAN	---	---	52.17	52.25	---	---	---	---	52.19	52.39	---	---
MAX	---	---	52.43	52.73	---	---	---	---	53.04	52.69	---	---
MIN	---	---	52.08	52.07	---	---	---	---	51.87	52.07	---	---

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960, 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)
NOV 18...	0927	52.18	25	--	5.1	7.7	398	21.8	<.20	--	.03	--	1.20
JAN 14...	0935	52.10	22	--	6.1	7.8	397	16.8	.20	--	.01	--	1.10
JUN 03...	1109	51.88	16	--	4.6	7.7	380	24.3	<.20	--	.02	--	1.50
JUN 29...	1000	52.44	36	--	6.6	7.7	355	23.9	.30	--	.01	--	.770
AUG 03...	1030	52.42	41	--	5.0	7.7	374	25.3	--	<.04	--	.73	--
SEP 29...	1003	56.59	1,670	762	1.4	7.0	95	25.5	--	.04	--	<.06	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 18...	--	<.01	--	.060	.05	--
JAN 14...	--	<.01	--	.040	.05	--
JUN 03...	--	<.01	--	.040	.06	--
JUN 29...	--	<.01	--	.060	.07	--
AUG 03...	<.008	--	.08	--	.11	1.03
SEP 29...	<.008	--	.31	--	.38	1.04

Remark codes used in this table:  
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## HILLSBOROUGH RIVER BASIN

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°10'30", long 82°11'20", in SE<sup>1</sup>/<sub>4</sub> sec.34, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, on left bank of Hillsborough River, 0.2 mi downstream from Crystal Springs, 2.0 mi west of village of Crystal springs, and 4.0 mi south of Zephyrhills.

PERIOD OF RECORD.--October 1934 to January 2002 (discharge measurement only); February 2003 to current year (gage height and discharge measurements only).

REVISED RECORDS.--WSP 1052: 1935, 1937-42, 1944, 1945.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to May 15, 1964, at present site at datum 34.67 ft higher. Prior to Sept. 30, 1983, auxiliary nonrecording gage on Hillsborough River 0.2 mi upstream from Crystal Springs; Oct. 1, 1983, to Sept. 30, 1984, recording gage at same site upstream. Prior to Feb. 19, 2003, nonrecording gage. See WRD FL 1968 for history of changes and extremes prior to Jan. 19, 1953.

REMARKS.--Spring discharge is the difference between discharge measurements of Hillsborough River made downstream from and upstream from Crystal Springs. Since 1945, flow regulated occasionally at springs outlet for recreational purposes. Results of miscellaneous temperature observations prior to October 1977 are available in files of the Geological Survey.

COOPERATION.--Diversion figures were provided by Southwest Florida Water Management District. Diversion figure published is an estimated daily average derived from reported monthly totals.

AVERAGE DISCHARGE.--487 measurements (1923, 1933, 1934-2004), 53.4 ft<sup>3</sup>/s, 34.5 mg/d.

EXTREMES FOR PERIOD OF RECORD.--

GAGE HEIGHT.--Maximum gage height, 55.68 ft, Sept. 7, 2004; minimum, 53.68 ft, May 12, 14, 15, June 3, 5, 6, 2003.

DISCHARGE.--Maximum discharge measured, 147 ft<sup>3</sup>/s, July 19, 1941; minimum measured, 20 ft<sup>3</sup>/s, July 1, 1946.

EXTREMES FOR CURRENT YEAR.--

GAGE HEIGHT.--Maximum gage height, 55.68 ft, Sept. 7; minimum, 53.98 ft, Dec. 1.

DISCHARGE.--Maximum discharge measured, 55 ft<sup>3</sup>/s, Oct. 10; minimum measured, 27 ft<sup>3</sup>/s, Aug. 4.

## DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Hillsborough River Below Springs (cfs)	Hillsborough River Above Springs (cfs)	Difference of spring flow (cfs)	Diversion by pumping (cfs)
Oct. 10	1333	98	43	55	0.41
Nov. 20	1155	81	28	53	0.42
Mar. 08	1310	114	83	31	0.61
May 04	1120	87	41	46	0.64
June 23	0840	70	20	50	0.79
Aug. 04	1311	114	87	27	0.76

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL.--Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.28	54.20	54.12	54.60	54.64	---	54.57	54.53	54.40	54.58	54.60	54.74
2	54.27	54.19	54.43	54.59	54.64	---	54.57	54.53	54.40	54.59	54.59	54.72
3	54.28	54.18	54.59	54.59	54.63	---	54.57	54.52	54.39	54.60	54.61	54.71
4	54.29	54.17	54.60	54.59	54.63	54.68	54.57	54.52	54.41	54.61	54.63	54.73
5	54.29	54.16	54.63	54.59	54.63	54.68	54.55	54.51	54.41	54.60	54.63	54.79
6	54.29	54.19	54.63	54.58	54.63	54.67	54.55	54.50	54.42	54.59	54.65	55.23
7	54.27	54.19	54.62	54.57	54.64	54.66	54.54	54.51	54.43	54.59	54.69	55.60
8	54.29	54.20	54.61	54.58	54.63	54.65	54.55	54.50	54.44	54.57	54.78	55.37
9	54.28	54.18	54.60	54.59	54.63	54.64	54.55	54.50	54.45	54.57	54.82	55.40
10	54.28	54.17	54.60	54.59	54.62	54.63	54.54	54.50	54.47	54.58	54.84	55.43
11	54.27	54.14	54.60	54.59	54.63	---	54.54	54.49	54.49	54.58	54.84	55.43
12	54.28	54.14	54.60	54.57	54.64	---	54.56	54.48	54.49	54.56	54.82	55.28
13	54.28	54.13	54.60	54.56	54.62	---	54.57	54.49	54.49	54.56	54.80	55.14
14	54.28	54.15	54.62	54.57	54.63	---	54.57	54.49	54.51	54.55	54.79	55.04
15	54.26	54.15	54.61	54.56	54.63	---	---	54.49	54.54	54.54	54.79	54.99
16	54.25	54.13	54.61	54.56	54.61	---	---	54.50	54.54	54.55	54.79	54.96
17	54.26	54.12	54.62	54.57	54.60	---	---	54.49	54.53	54.55	54.78	54.94
18	54.26	54.10	54.62	54.59	54.61	---	---	54.48	54.52	54.56	54.77	54.92
19	54.26	54.12	54.61	54.60	54.61	54.61	---	54.48	54.52	54.57	54.78	54.90
20	54.24	54.09	54.62	54.59	54.61	54.62	---	54.47	54.52	54.59	54.78	54.88
21	54.22	54.08	54.61	54.59	54.61	54.62	---	54.47	54.52	54.60	54.78	54.88
22	54.22	54.09	54.61	54.58	54.61	54.60	---	54.47	54.53	54.59	54.77	54.87
23	54.20	54.08	54.61	54.58	54.59	54.59	---	54.47	54.51	54.60	54.79	54.86
24	54.20	54.05	54.61	54.59	54.59	54.59	54.54	54.46	54.51	54.60	54.82	54.85
25	54.20	54.04	54.61	54.59	---	54.60	54.53	54.46	54.51	54.60	54.81	54.84
26	54.20	54.03	54.61	54.58	---	54.60	54.53	54.46	54.52	54.58	54.80	54.93
27	54.20	54.06	54.60	54.60	---	54.61	54.53	54.45	54.54	54.60	54.79	55.50
28	54.18	54.05	54.60	54.61	---	54.60	54.52	54.44	54.54	54.61	54.79	55.59
29	54.19	54.04	54.59	54.61	---	54.59	54.52	54.44	54.56	54.60	54.78	55.56
30	54.18	54.02	54.59	54.61	---	54.58	54.52	54.43	54.59	54.60	54.76	55.44
31	54.19	---	54.59	54.62	---	54.58	---	54.42	---	54.60	54.75	---
MEAN	54.25	54.12	54.59	54.59	---	---	---	54.48	54.49	54.58	54.76	55.08

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923, 1946, 1966 to 1999, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Color, water, fltrd, Pt-Co units (00080)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
MAY 2004													
12...	1407	54.47	5	3.3	7.6	360	24.3	61.0	4.20	.40	5.6	11.0	.1
JUN 29...	0933	54.55	<5	3.8	7.5	362	24.0	59.0	4.40	.40	5.8	11.0	.1
Date		Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Floating algae mats severity, code (01325)	Strontium, water, fltrd, ug/L (01080)	
MAY 2004													
12...		11.0	9.90	209	<.20	<.01	2.50	<.01	.040	.03	--	220	
JUN 29...		11.0	10.0	211	<.20	.02	2.50	<.01	.040	.04	.0	220	

Remark codes used in this table:  
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## 02302010 HILLSBOROUGH RIVER BELOW CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL.

LOCATION.--Lat 28° 10'30", long 82° 11'20" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.34, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, on left bank, 0.2 mi downstream from Crystal Springs, and 4.0 mi south of Zephyrhills.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1935 to current year (miscellaneous measurements only).

GAGE.--Miscellaneous measurement gage. Datum of gage is National Geodetic Vertical Datum of 1929.

## MISCELLANEOUS MEASUREMENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Discharge (ft <sup>3</sup> /s)
Nov. 13	83
Nov. 20	81
Mar. 08	114
May 04	87
June 23	70
Aug. 04	114

02302260 ITCHEPACKESASSA CREEK NEAR KNIGHTS, FL.

LOCATION.--Lat 28°04'49", long 82°04'24" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.2, T.28 S., R.22 E., Hillsborough County, Hydrologic Unit 03100205, at left bank on State Highway 582, 3.9 mi east of Knights, and 6.0 mi upstream from mouth.

DRAINAGE AREA.--34 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--July 1974 to current year (crest stage only).

GAGE.--Crest stage partial record gage.

ANNUAL MAXIMUM, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Annual gage height (ft)	Maximum discharge (ft <sup>3</sup> /s)
Sept. 7	15.73	702

## 02302500 BLACKWATER CREEK NEAR KNIGHTS, FL.

LOCATION.--Lat 28°08'25", long 82°09'00" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.18, T.27 S., R.22 E., Hillsborough County, Hydrologic Unit 03100205, on left bank, 0.2 mi upstream from State Highway 39, 1.8 mi downstream from Itchepackesassa Creek, 4.4 mi northwest of Knights, and 5.4 mi upstream from mouth.

DRAINAGE AREA.--110 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1951 to current year.

REVISED RECORDS.--WRD FL 1969: 1953 (P).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1984, at site 900 ft downstream at datum 70.56 ft higher; Oct. 1, 1984, to Sept. 30, 1987, at former site at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	14	6.4	11	130	108	8.4	92	0.46	79	97	190
2	91	12	6.4	11	130	91	8.5	83	0.33	60	127	252
3	78	13	7.2	11	100	77	8.6	50	0.31	64	157	212
4	69	13	6.9	10	72	67	8.4	105	1.1	90	252	168
5	60	14	6.6	9.9	59	59	7.7	79	4.4	83	181	408
6	51	31	6.9	9.4	53	53	6.7	53	9.4	72	158	e2,000
7	43	28	7.8	8.8	47	47	5.7	35	8.7	53	230	e2,900
8	75	28	9.4	9.5	40	42	5.7	25	13	45	658	e2,300
9	85	23	9.8	10	35	36	6.8	18	15	35	633	1,930
10	54	21	9.3	16	33	32	7.4	14	17	27	456	e2,100
11	43	19	8.0	19	31	28	7.1	11	59	21	311	2,030
12	43	17	6.9	17	28	25	41	11	97	18	224	1,740
13	40	16	7.9	14	27	23	72	8.8	95	18	201	1,450
14	37	15	28	13	27	21	47	6.7	133	16	517	1,160
15	33	17	64	12	34	20	34	5.0	146	14	727	900
16	32	12	42	11	33	92	25	6.5	153	20	879	701
17	27	11	30	12	29	184	21	5.1	104	39	764	562
18	26	9.7	24	33	25	120	15	5.0	70	67	582	439
19	23	11	21	71	23	84	12	4.7	52	268	592	299
20	20	13	19	60	21	64	10	3.7	37	401	546	216
21	18	12	16	45	20	49	8.2	2.4	33	452	404	197
22	16	10	14	35	18	39	8.2	1.8	28	322	410	183
23	15	10	14	30	18	31	6.7	1.9	24	200	381	159
24	15	10	13	25	29	25	6.3	1.3	21	138	300	149
25	14	8.7	12	22	445	22	7.4	0.97	18	108	235	133
26	13	8.4	11	21	485	19	6.1	1.1	15	84	202	882
27	12	11	11	91	259	17	4.5	0.78	20	92	174	2,560
28	11	10	11	98	170	13	4.2	0.45	37	131	144	2,170
29	18	7.7	11	74	130	13	5.3	1.2	62	168	130	1,810
30	22	6.7	11	63	---	12	8.6	1.7	85	151	119	1,520
31	17	---	12	70	---	10	---	1.0	---	110	117	---
TOTAL	1,205	432.2	463.5	942.6	2,551	1,523	423.5	636.10	1,358.70	3,446	10,908	31,720
MEAN	38.9	14.4	15.0	30.4	88.0	49.1	14.1	20.5	45.3	111	352	1,057
MAX	104	31	64	98	485	184	72	105	153	452	879	2,900
MIN	11	6.7	6.4	8.8	18	10	4.2	0.45	0.31	14	97	133
AC-FT	2,390	857	919	1,870	5,060	3,020	840	1,260	2,690	6,840	21,640	62,920
CFSM	0.35	0.13	0.14	0.28	0.80	0.45	0.13	0.19	0.41	1.01	3.20	9.61
IN.	0.41	0.15	0.16	0.32	0.86	0.52	0.14	0.22	0.46	1.17	3.69	10.73

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

MEAN	72.4	35.0	54.6	54.4	60.8	94.3	35.8	25.9	70.9	104	167	205
MAX	362	244	882	303	457	729	276	232	345	419	655	1,057
(WY)	(1960)	(1998)	(1998)	(2003)	(1998)	(1960)	(1959)	(1957)	(1959)	(1991)	(1965)	(2004)
MIN	5.92	0.62	0.65	1.13	0.93	2.12	0.86	0.01	3.42	12.0	19.1	13.9
(WY)	(1981)	(2001)	(2001)	(2001)	(2001)	(2000)	(1985)	(1985)	(1985)	(1989)	(1956)	(1972)

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR			FOR 2004 WATER YEAR			WATER YEARS 1952 - 2004	
ANNUAL TOTAL	49,377.8			55,609.60				
ANNUAL MEAN	135			152			81.8	
HIGHEST ANNUAL MEAN							257	1960
LOWEST ANNUAL MEAN							18.3	2000
HIGHEST DAILY MEAN	1,690	Jan 1		2,900	Sep 7		5,080	Mar 18, 1960
LOWEST DAILY MEAN	6.4	Dec 1		0.31	Jun 3		0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	6.7	Nov 30		0.78	May 28		0.00	May 22, 1977
MAXIMUM PEAK FLOW				3,140	Sep 7		5,400	Mar 18, 1960
MAXIMUM PEAK STAGE				*80.40	Sep 7		80.48	Sep 7, 1988
ANNUAL RUNOFF (AC-FT)	97,940			110,300			59,250	
ANNUAL RUNOFF (CFSM)	1.23			1.38			0.743	
ANNUAL RUNOFF (INCHES)	16.70			18.81			10.10	
10 PERCENT EXCEEDS	394			340			189	
50 PERCENT EXCEEDS	54			28			25	
90 PERCENT EXCEEDS	11			6.8			5.2	

e Estimated

\* From high water mark

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73.28	72.30	72.10	72.23	73.60	73.27	72.15	73.33	71.85	72.75	72.95	73.96
2	73.14	72.27	72.10	72.23	73.59	73.10	72.16	73.24	71.83	72.56	73.26	74.55
3	73.01	72.28	72.13	72.23	73.28	72.96	72.17	72.91	71.83	72.60	73.56	74.19
4	72.92	72.28	72.12	72.22	73.00	72.86	72.17	73.46	71.90	72.86	74.50	73.77
5	72.83	72.31	72.11	72.21	72.87	72.78	72.15	73.20	72.07	72.79	73.88	75.35
6	72.74	72.58	72.12	72.20	72.81	72.72	72.12	72.95	72.24	72.68	73.66	---
7	72.66	72.54	72.15	72.18	72.75	72.66	72.09	72.75	72.19	72.49	74.19	---
8	72.98	72.54	72.20	72.20	72.68	72.61	72.09	72.63	72.24	72.41	77.13	---
9	73.09	72.47	72.21	72.21	72.63	72.55	72.14	72.52	72.28	72.30	77.02	79.35
10	72.80	72.44	72.19	72.35	72.60	72.50	72.17	72.44	72.27	72.20	76.04	---
11	72.70	72.41	72.15	72.40	72.57	72.45	72.16	72.38	72.74	72.11	75.04	79.45
12	72.71	72.37	72.12	72.36	72.54	72.41	72.67	72.37	73.09	72.06	74.30	79.15
13	72.68	72.35	72.15	72.31	72.53	72.37	73.05	72.31	73.04	72.07	74.08	78.80
14	72.65	72.34	72.47	72.28	72.53	72.35	72.81	72.24	73.40	72.04	76.41	78.37
15	72.61	72.36	72.92	72.27	72.62	72.34	72.66	72.18	73.50	71.99	77.37	77.84
16	72.59	72.26	72.71	72.24	72.60	73.10	72.56	72.23	73.57	72.08	77.79	77.28
17	72.53	72.24	72.57	72.25	72.55	74.07	72.50	72.18	73.05	72.30	77.47	76.72
18	72.51	72.20	72.48	72.55	72.50	73.41	72.40	72.17	72.70	72.56	76.80	76.04
19	72.46	72.24	72.43	72.99	72.46	73.04	72.34	72.16	72.52	74.43	76.85	75.12
20	72.42	72.29	72.40	72.88	72.43	72.85	72.30	72.11	72.37	75.55	76.59	74.45
21	72.39	72.26	72.35	72.74	72.41	72.70	72.24	72.03	72.32	75.91	75.72	74.29
22	72.36	72.22	72.32	72.63	72.39	72.61	72.25	71.98	72.25	74.96	75.76	74.17
23	72.33	72.22	72.31	72.56	72.39	72.52	72.20	71.99	72.20	73.91	75.57	73.95
24	72.32	72.22	72.29	72.50	72.51	72.45	72.20	71.94	72.16	73.31	74.96	73.86
25	72.30	72.18	72.27	72.46	75.96	72.40	72.24	71.91	72.10	73.01	74.40	73.71
26	72.28	72.17	72.24	72.44	76.28	72.37	72.20	71.93	72.05	72.79	74.10	76.58
27	72.27	72.24	72.23	73.20	74.74	72.32	72.13	71.89	72.13	72.90	73.82	79.94
28	72.24	72.21	72.24	73.26	73.93	72.26	72.12	71.85	72.34	73.30	73.51	79.60
29	72.38	72.15	72.24	73.02	73.51	72.25	72.18	71.93	72.59	73.70	73.35	79.22
30	72.45	72.11	72.25	72.91	---	72.24	72.25	71.97	72.82	73.52	73.23	78.88
31	72.37	---	72.25	72.98	---	72.20	---	71.92	---	73.09	73.22	---
MEAN	72.61	72.30	72.28	72.50	73.08	72.67	72.30	72.36	72.45	73.01	75.05	---
MAX	73.28	72.58	72.92	73.26	76.28	74.07	73.05	73.46	73.57	75.91	77.79	---
MIN	72.24	72.11	72.10	72.18	72.39	72.20	72.09	71.85	71.83	71.99	72.95	---

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)
NOV 18...	1003	72.20	9.7	--	6.7	7.7	719	20.6	--	.60	--	.03
JAN 14...	1010	72.27	12	--	9.1	7.8	523	12.9	--	1.2	--	.03
JUN 03...	1158	71.83	.31	--	4.6	7.7	1,010	25.6	--	.60	--	.07
JUN 29...	1158	72.31	35	--	6.5	7.5	424	25.1	--	.70	--	.06
AUG 03...	0945	73.22	123	--	5.4	7.4	244	26.4	--	--	.06	--
SEP 07...	0950	--	E2,900	758	4.3	6.4	55	25.0	--	--	<.04	--
SEP 07...	0952	--	E2,900	758	4.3	6.4	55	25.0	<10	--	--	--

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 18...	--	.190	--	<.01	--	.380	.40	--
JAN 14...	--	.270	--	<.01	--	.340	.47	--
JUN 03...	--	.210	--	<.01	--	.460	.50	--
JUN 29...	--	.440	--	.02	--	.340	.40	--
AUG 03...	.23	--	.016	--	.67	--	.80	1.43
SEP 07...	<.06	--	E.004	--	.50	--	.60	.99
SEP 07...	--	--	--	--	--	--	--	--

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.

LOCATION.--Lat 28°08'59", long 82°13'57" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.8, T.27 S., R.21 E., Hillsborough County, Hydrologic Unit 03100205, on left bank 10 ft upstream from footbridge in Hillsborough River State Park, 1.2 mi downstream from Blackwater Creek, 6.5 mi southwest of Zephyrhills, and 40 mi upstream from mouth.

DRAINAGE AREA.--220 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area. WRD FL-93-3A: 1992 (M)(m).

GAGE.--Water-stage recorder. Datum of gage is 33.28 ft above National Geodetic Vertical Datum of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Mar. 22, 1963, nonrecording gage at site 40 ft downstream at same datum; Mar. 22, 1963 to Aug. 1, 1995, at site 40 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Records include high-water diversions upstream from station from the Withlacoochee River basin through Withlacoochee-Hillsborough overflow near Richland (station 02311000).

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	270	119	101	106	252	355	91	149	66	201	192	411
2	250	116	99	106	278	319	88	200	64	168	202	470
3	236	114	99	106	244	281	87	158	62	154	263	429
4	223	114	100	105	211	253	86	197	62	186	415	378
5	209	115	99	104	190	233	85	186	67	174	342	636
6	194	133	99	103	177	214	83	156	80	167	338	4,180
7	181	138	99	100	167	197	81	139	86	143	504	6,010
8	199	134	100	100	157	181	82	125	81	134	1,310	4,720
9	232	129	103	104	149	163	81	115	91	121	e1,370	4,030
10	199	124	103	112	144	149	83	109	92	110	e1,290	3,740
11	182	122	102	117	139	139	83	102	121	102	e1,120	3,790
12	176	119	100	114	136	131	131	100	156	96	805	3,500
13	173	117	99	110	133	124	193	99	e165	93	642	3,080
14	169	114	129	107	134	118	153	94	e206	92	808	2,580
15	164	113	186	106	143	115	129	90	215	87	1,030	2,100
16	158	112	162	105	143	167	117	94	247	87	1,120	1,710
17	152	110	144	104	137	314	109	96	193	102	1,090	1,440
18	148	107	133	138	132	250	101	91	153	122	916	1,250
19	144	109	128	196	127	197	96	90	128	269	889	1,060
20	139	115	124	179	125	173	93	87	117	472	e870	912
21	134	114	120	161	124	159	90	84	116	537	765	864
22	131	111	117	148	121	147	87	82	111	450	683	815
23	127	109	116	141	119	134	85	81	101	319	692	746
24	122	110	115	135	133	124	83	78	94	248	740	686
25	119	108	113	130	e680	117	83	75	91	208	655	629
26	117	107	111	126	e870	112	82	73	87	181	568	1,200
27	116	107	108	198	601	108	81	72	90	181	518	3,740
28	115	110	107	247	449	102	78	68	114	245	475	4,370
29	126	105	108	201	390	99	79	67	161	261	440	3,800
30	131	103	106	184	---	97	80	69	247	258	400	3,330
31	126	---	107	193	---	94	---	69	---	211	380	---
TOTAL	5,162	3,458	3,537	4,186	6,805	5,366	2,880	3,295	3,664	6,179	21,832	66,606
MEAN	167	115	114	135	235	173	96.0	106	122	199	704	2,220
MAX	270	138	186	247	870	355	193	200	247	537	1,370	6,010
MIN	115	103	99	100	119	94	78	67	62	87	192	378
MED	158	114	107	114	144	149	85	94	106	174	683	1,580
CFSM	0.76	0.52	0.52	0.61	1.07	0.79	0.44	0.48	0.56	0.91	3.20	10.1
IN.	0.87	0.58	0.60	0.71	1.15	0.91	0.49	0.56	0.62	1.04	3.69	11.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	255	134	174	182	186	271	168	98.5	180	304	443	556
MAX	944	512	2,234	892	1,247	2,093	942	333	849	1,959	1,468	2,280
(WY)	(1960)	(1998)	(1998)	(2003)	(1998)	(1960)	(1941)	(1957)	(1959)	(1945)	(1945)	(1960)
MIN	57.4	42.1	40.4	39.6	37.3	47.4	43.7	30.5	33.0	57.5	83.0	91.9
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2001)	(2000)	(2000)	(1956)	(1978)

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	137,275		132,970			
ANNUAL MEAN	376		363		246	
HIGHEST ANNUAL MEAN					745	1960
LOWEST ANNUAL MEAN					64.9	2000
HIGHEST DAILY MEAN	3,690	Jan 2	6,010	Sep 7	12,300	Mar 18, 1960
LOWEST DAILY MEAN	91	May 17	62	Jun 3	27	Jun 5, 2000
ANNUAL SEVEN-DAY MINIMUM	94	May 11	66	May 29	28	Jun 4, 2000
MAXIMUM PEAK FLOW			6,410	Sep 7	12,600	Mar 18, 1960
MAXIMUM PEAK STAGE			13.93	Sep 7	15.33	Mar 18, 1960
ANNUAL RUNOFF (CFSM)	1.71		1.65		1.12	
ANNUAL RUNOFF (INCHES)	23.21		22.48		15.21	
10 PERCENT EXCEEDS	883		752		527	
50 PERCENT EXCEEDS	209		132		115	
90 PERCENT EXCEEDS	107		87		67	

e Estimated

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.29	1.22	1.07	1.11	2.17	2.85	1.10	1.50	0.76	1.84	1.78	3.14
2	2.16	1.19	1.05	1.11	2.34	2.64	1.08	1.83	0.74	1.61	1.85	3.47
3	2.07	1.18	1.05	1.11	2.13	2.42	1.07	1.53	0.72	1.50	2.25	3.24
4	1.98	1.18	1.06	1.11	1.90	2.25	1.05	1.81	0.72	1.74	3.16	2.96
5	1.88	1.18	1.05	1.09	1.76	2.12	1.05	1.74	0.77	1.65	2.75	4.18
6	1.79	1.33	1.05	1.08	1.66	2.00	1.03	1.52	0.89	1.60	2.72	12.26
7	1.69	1.37	1.05	1.06	1.59	1.89	1.01	1.38	0.95	1.42	3.55	13.78
8	1.82	1.34	1.06	1.06	1.51	1.79	1.02	1.27	0.90	1.35	7.31	13.19
9	2.04	1.30	1.08	1.09	1.45	1.67	1.01	1.19	0.99	1.25	---	12.64
10	1.82	1.26	1.08	1.16	1.41	1.58	1.03	1.15	1.00	1.15	---	12.36
11	1.69	1.24	1.08	1.20	1.38	1.49	1.03	1.09	1.24	1.08	---	12.41
12	1.65	1.22	1.06	1.18	1.35	1.43	1.43	1.07	1.52	1.04	5.14	12.10
13	1.63	1.20	1.05	1.14	1.33	1.38	1.90	1.06	---	1.01	4.36	11.52
14	1.61	1.18	1.29	1.12	1.33	1.33	1.60	1.02	---	1.00	5.15	10.72
15	1.57	1.17	1.73	1.11	1.41	1.31	1.42	0.98	1.94	0.96	6.15	9.69
16	1.52	1.16	1.55	1.10	1.40	1.69	1.32	1.02	2.15	0.96	6.52	8.65
17	1.48	1.14	1.42	1.09	1.36	2.68	1.25	1.03	1.79	1.09	6.42	7.80
18	1.45	1.12	1.33	1.36	1.32	2.28	1.19	0.99	1.49	1.25	5.65	7.07
19	1.42	1.14	1.29	1.79	1.28	1.92	1.14	0.98	1.30	2.26	5.53	6.31
20	1.38	1.18	1.26	1.68	1.26	1.75	1.12	0.95	1.21	3.48	---	5.67
21	1.34	1.17	1.23	1.54	1.25	1.65	1.09	0.93	1.20	3.82	4.95	5.45
22	1.31	1.16	1.20	1.45	1.23	1.56	1.07	0.91	1.17	3.36	4.56	5.23
23	1.28	1.14	1.19	1.39	1.22	1.46	1.05	0.90	1.08	2.61	4.60	4.91
24	1.24	1.14	1.18	1.34	1.32	1.38	1.03	0.88	1.02	2.16	4.84	4.62
25	1.22	1.13	1.17	1.30	---	1.32	1.03	0.85	0.99	1.89	4.42	4.34
26	1.20	1.12	1.15	1.28	---	1.28	1.02	0.83	0.95	1.70	3.99	6.55
27	1.20	1.12	1.13	1.80	4.15	1.25	1.01	0.81	0.98	1.69	3.73	12.22
28	1.18	1.15	1.12	2.14	3.36	1.20	0.99	0.78	1.19	2.14	3.50	12.94
29	1.27	1.10	1.12	1.83	3.04	1.17	0.99	0.77	1.55	2.25	3.31	12.42
30	1.31	1.08	1.11	1.71	---	1.15	1.00	0.79	2.15	2.22	3.08	11.88
31	1.27	---	1.11	1.78	---	1.13	---	0.79	---	1.91	2.97	---
MEAN	1.57	1.19	1.17	1.33	---	1.71	1.14	1.11	---	1.77	---	8.46
MAX	2.29	1.37	1.73	2.14	---	2.85	1.90	1.83	---	3.82	---	13.78
MIN	1.18	1.08	1.05	1.06	---	1.13	0.99	0.77	---	0.96	---	2.96

## 02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 2001 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance, temperature, and pH sensors located near the surface.

REMARKS.--Interruptions in record were due to malfunctions of the instruments. Specific conductance records good, temperature records excellent, and pH records poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 655 microsiemens, Mar. 31, 2001; minimum, 70 microsiemens, Jan. 1, 2, 2003.

PH UNITS.--Maximum, 8.8 standard units, Feb. 10, May 9, June 28, 2004; minimum, 5.7 standard units, Sept. 16, 2004.

TEMPERATURE.--Maximum, 27.4° C, Aug. 9, 2001; minimum, 11.4° C, Jan. 8, 2003.

DISSOLVED OXYGEN.--Maximum, 10.8 mg/L, May 16, 2002; minimum, 3.2 mg/L, Sept. 28, 2001, Oct. 11, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 541 microsiemens, Dec. 15; minimum, 75 microsiemens, Sept. 27.

pH UNITS.--Maximum, 8.8 standard units, Feb. 10, May 9, June 28; minimum, 5.7 standard units, Sept. 16.

TEMPERATURE.--Maximum, 27.3° C, Sept. 17; minimum, 15.5° C, Feb. 28.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	308	289	409	389	401	394	399	386	360	333	272	265
2	316	306	412	388	401	388	401	392	337	305	291	271
3	318	306	415	403	391	387	405	388	326	310	299	291
4	329	318	404	397	397	390	411	404	343	326	308	294
5	340	329	400	393	399	396	407	400	350	342	314	308
6	358	340	446	393	400	394	406	400	356	348	323	313
7	366	353	453	442	395	392	411	404	361	355	336	322
8	358	348	442	389	400	394	411	401	370	361	347	336
9	363	316	405	392	416	399	403	397	377	369	356	346
10	336	317	409	404	419	415	404	399	386	375	364	354
11	344	336	409	399	416	414	409	401	389	381	372	363
12	355	342	399	392	420	413	430	409	395	388	381	371
13	383	355	400	395	426	420	421	391	397	391	389	380
14	384	361	400	398	441	413	404	386	392	384	395	388
15	372	360	403	399	541	441	413	403	398	384	402	394
16	374	360	404	400	484	372	415	410	407	398	411	397
17	372	357	410	403	380	374	413	398	404	384	432	283
18	376	371	420	410	382	377	402	386	389	382	315	287
19	376	363	420	416	382	376	484	402	395	387	334	314
20	383	369	433	416	386	378	406	348	398	392	346	333
21	383	376	435	417	401	386	362	357	401	397	367	345
22	390	382	417	407	404	396	375	361	404	401	371	366
23	390	378	410	405	407	404	383	372	407	404	373	367
24	392	378	408	399	406	395	394	383	407	377	387	373
25	398	392	400	398	396	390	401	392	377	301	397	387
26	397	388	400	392	395	391	410	390	209	182	402	397
27	401	396	407	395	395	393	393	374	237	209	407	400
28	401	396	428	407	396	393	395	296	264	237	413	403
29	410	396	419	400	399	396	327	304	271	264	421	407
30	431	409	400	392	399	395	350	327	---	---	418	411
31	426	402	---	---	395	387	361	350	---	---	412	404
MONTH	431	289	453	388	541	372	484	296	407	182	432	265



## 02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (NEAR SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	406	400	515	441	404	397	322	271	331	315	282	261
2	414	406	476	316	401	389	340	320	326	316	261	248
3	415	412	328	315	391	383	364	339	317	271	265	253
4	428	412	336	317	387	382	397	330	277	233	282	264
5	417	407	338	313	397	385	330	319	281	256	287	161
6	420	409	368	338	431	396	334	322	---	---	161	99
7	425	418	380	359	491	431	344	330	---	---	101	92
8	424	420	362	353	483	445	354	344	---	---	108	101
9	431	423	363	354	486	441	367	348	---	---	121	107
10	441	430	371	356	452	435	377	367	---	---	122	118
11	443	420	380	366	455	381	384	376	158	142	120	117
12	421	408	407	365	482	339	388	380	185	155	125	118
13	415	376	407	384	355	322	389	386	208	183	134	123
14	380	360	391	387	350	300	389	381	211	162	136	131
15	387	366	409	390	332	300	382	378	164	152	142	136
16	403	386	426	408	322	280	382	374	158	142	151	141
17	412	398	424	414	349	304	424	373	156	146	157	149
18	402	398	414	399	378	347	425	405	165	153	162	156
19	405	401	409	394	397	377	428	222	158	151	168	162
20	408	403	425	406	403	394	238	207	167	148	171	168
21	409	404	408	383	401	384	237	224	193	166	174	170
22	413	407	395	382	385	380	260	236	195	183	180	170
23	416	412	417	394	402	383	285	259	201	195	181	177
24	421	415	425	416	414	400	308	285	210	198	190	178
25	423	419	423	411	404	386	318	308	224	210	199	188
26	431	414	416	412	404	393	334	318	229	223	202	104
27	435	422	417	413	399	390	344	334	237	226	105	75
28	422	407	416	399	402	390	340	314	248	237	85	76
29	443	409	401	389	393	362	316	299	253	245	99	85
30	450	439	399	391	384	271	299	287	262	252	109	99
31	---	---	404	398	---	---	316	297	272	262	---	---
MONTH	450	360	515	313	491	271	428	207	---	---	287	75

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.4	8.3	8.2	8.3	8.1	7.7	7.6	7.9	7.8	6.8	6.7
2	7.5	7.4	8.2	8.2	8.3	8.1	7.6	7.4	7.9	7.7	6.7	6.7
3	7.5	7.2	8.2	8.1	8.3	8.1	7.6	7.5	7.9	7.8	6.8	6.7
4	7.3	7.3	8.2	8.2	8.2	8.1	7.5	7.5	7.8	7.7	6.9	6.8
5	7.4	7.2	8.2	8.1	8.1	8.0	7.5	7.5	7.8	7.6	6.9	6.8
6	7.5	7.4	8.2	8.1	8.4	8.1	7.6	7.5	7.6	7.5	7.0	6.9
7	7.6	7.5	8.1	8.1	8.5	8.4	7.9	7.6	7.8	7.6	7.1	7.0
8	7.6	7.5	8.1	8.0	8.5	8.4	7.9	7.8	8.0	7.8	7.2	7.1
9	7.6	7.5	8.2	8.1	8.4	8.2	7.8	7.4	8.0	8.0	7.4	7.2
10	7.6	7.5	8.3	8.2	8.2	8.1	7.7	7.5	8.8	8.0	7.8	7.4
11	7.7	7.6	8.3	8.2	8.2	8.1	7.9	7.7	7.9	7.6	8.1	7.0
12	7.8	7.7	8.3	8.1	8.3	8.2	7.9	7.8	7.6	7.2	7.1	7.1
13	7.8	7.7	8.3	8.2	8.2	8.1	7.8	7.8	7.2	6.7	7.2	7.1
14	7.8	7.7	8.3	8.2	8.2	7.9	7.9	7.8	7.0	6.6	7.3	7.2
15	7.9	7.7	8.3	8.2	8.2	7.9	7.9	7.7	6.6	6.3	7.2	7.1
16	7.9	7.9	8.3	8.2	8.1	8.0	7.8	7.7	6.5	6.3	7.1	7.0
17	8.0	7.9	8.2	8.1	8.0	7.8	7.8	7.7	6.4	6.1	7.0	6.9
18	8.0	8.0	8.1	8.0	8.2	8.0	7.8	7.6	6.3	6.1	7.1	7.0
19	8.0	7.9	8.0	7.9	8.2	8.1	7.8	7.6	6.2	5.9	7.1	7.0
20	8.0	7.9	8.1	8.0	8.3	8.1	7.8	7.5	---	---	7.1	7.0
21	8.1	7.9	8.1	8.0	8.5	8.2	7.9	7.7	---	---	7.1	7.1
22	8.1	8.0	8.1	7.9	8.3	8.2	8.0	7.9	---	---	7.3	7.1
23	8.1	8.0	7.9	7.9	8.2	8.0	8.0	7.9	---	---	7.4	7.3
24	8.2	8.1	7.9	7.8	8.0	7.9	8.0	7.9	---	---	7.4	7.4
25	8.2	8.1	7.8	7.7	8.0	7.9	8.0	7.8	---	---	7.4	7.4
26	8.2	8.1	7.9	7.6	8.1	7.9	7.9	7.8	---	---	7.5	7.4
27	8.1	8.1	7.9	7.9	8.0	7.9	7.8	7.5	6.6	6.1	7.5	7.4
28	8.1	8.1	8.0	7.9	8.0	7.9	7.7	7.3	6.7	6.6	7.7	7.4
29	8.3	8.1	8.3	8.0	7.9	7.8	7.9	7.7	6.8	6.7	7.5	7.4
30	8.3	8.3	8.5	8.3	7.9	7.8	7.9	7.8	---	---	7.6	7.5
31	8.3	8.2	---	---	7.8	7.6	7.9	7.8	---	---	7.6	7.6
MONTH	8.3	7.2	8.5	7.6	8.5	7.6	8.0	7.3	---	---	8.1	6.7
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.7	7.6	8.2	8.1	8.2	8.1	8.3	8.0	7.9	7.6	7.5	7.4
2	7.8	7.7	8.1	7.9	8.3	8.0	8.3	8.1	7.9	7.6	7.4	7.2
3	7.8	7.7	7.9	7.9	8.1	8.0	8.4	8.1	7.9	7.5	7.4	7.3
4	7.9	7.8	8.1	7.9	8.2	7.9	8.4	8.1	7.8	7.4	7.4	7.3
5	7.9	7.8	8.1	8.0	8.2	8.1	8.1	8.0	7.4	7.3	7.5	6.8
6	7.9	7.8	8.2	8.1	8.2	8.0	8.1	8.0	7.6	7.2	6.8	6.0
7	7.9	7.8	8.7	7.7	8.4	8.0	8.5	8.1	7.6	7.2	6.2	6.0
8	7.9	7.8	8.7	8.7	8.3	8.2	8.5	8.3	7.2	6.8	6.1	5.9
9	7.9	7.8	8.8	8.6	8.2	8.1	8.5	8.3	6.8	6.5	6.2	5.9
10	7.9	7.8	8.7	8.6	8.4	8.0	8.4	8.2	---	---	6.2	6.0
11	8.0	7.8	8.7	8.5	8.4	8.2	8.3	8.1	6.7	6.4	6.1	5.9
12	8.0	7.8	8.7	8.5	8.3	8.2	8.4	8.1	6.9	6.7	6.2	6.0
13	7.8	7.7	8.6	8.4	8.3	8.1	8.4	8.2	7.0	6.8	6.4	6.0
14	7.8	7.7	8.5	8.4	8.3	8.1	8.4	8.3	7.0	6.7	6.2	5.9
15	7.9	7.8	8.5	8.4	8.2	8.1	8.4	8.2	6.8	6.7	6.0	5.8
16	8.0	7.9	8.6	8.4	8.1	7.8	8.4	8.3	6.7	6.5	5.9	5.7
17	8.1	8.0	8.5	8.3	7.9	7.8	8.3	8.2	6.8	6.6	6.0	5.9
18	8.1	8.0	8.5	8.3	8.0	7.8	8.3	8.2	6.9	6.7	6.5	6.0
19	8.0	8.0	8.6	8.4	8.1	7.8	8.2	7.5	7.0	6.9	6.9	6.5
20	8.2	8.0	8.6	8.1	8.0	7.8	7.5	7.3	7.0	6.7	7.2	6.9
21	8.1	8.1	8.5	8.3	8.1	8.0	7.4	7.1	7.1	7.0	7.5	7.2
22	8.2	8.1	8.5	8.3	8.1	7.9	7.2	7.0	7.2	7.1	7.4	7.3
23	8.2	8.1	8.5	8.4	8.1	7.9	7.4	7.2	7.2	6.9	7.3	7.2
24	8.2	8.1	8.5	8.3	8.1	8.0	7.8	7.3	7.0	6.7	7.4	7.3
25	8.2	8.1	8.5	8.3	8.6	7.6	7.9	7.8	6.9	6.7	7.4	7.2
26	8.2	8.0	8.5	8.3	8.6	8.4	7.9	7.6	7.0	6.9	7.5	6.6
27	8.2	8.1	8.5	8.2	8.7	8.4	7.9	7.7	7.1	6.9	6.6	6.3
28	8.4	8.1	8.4	8.2	8.8	8.4	7.9	7.8	7.3	7.0	6.4	6.2
29	8.3	8.2	8.4	8.1	8.7	8.4	7.8	7.5	7.4	7.2	6.4	6.4
30	8.3	8.2	8.4	8.1	8.6	8.1	7.9	7.6	7.3	7.2	6.7	6.4
31	---	---	8.4	8.0	---	---	7.8	7.6	7.5	7.3	---	---
MONTH	8.4	7.6	8.8	7.7	8.8	7.6	8.5	7.0	---	---	7.5	5.7

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.0	23.8	22.9	22.6	20.0	19.1	21.0	20.6	17.2	17.1	18.6	17.2
2	23.9	23.5	23.1	22.8	19.7	19.3	21.2	20.8	17.8	17.1	20.0	18.5
3	23.6	23.2	23.4	23.0	20.1	19.4	21.3	20.9	18.3	17.7	20.6	19.8
4	23.9	23.5	23.7	23.2	20.8	19.9	21.8	21.0	19.2	18.3	21.0	20.3
5	24.1	23.7	24.1	23.6	21.4	20.7	21.9	21.5	20.0	19.2	21.4	20.8
6	24.3	23.8	24.0	23.7	20.9	19.0	21.6	20.8	21.2	20.0	21.8	21.2
7	24.4	23.9	24.0	23.8	19.0	18.2	20.8	18.8	21.3	20.1	22.2	21.8
8	24.2	23.6	24.0	23.8	18.6	18.0	19.0	18.3	20.1	18.2	21.9	20.6
9	24.2	23.8	24.0	23.2	19.6	18.5	19.7	18.8	18.6	17.8	20.6	19.4
10	24.2	24.0	23.2	22.9	20.6	19.6	19.9	18.2	19.4	18.6	19.4	18.8
11	24.2	23.9	23.2	22.9	20.4	19.3	18.2	16.9	19.9	19.4	18.8	18.1
12	24.2	24.0	23.0	22.8	19.3	19.0	17.8	17.1	20.8	19.9	19.1	18.4
13	24.7	24.2	22.8	22.4	19.9	19.0	17.9	17.6	21.4	20.8	19.7	19.0
14	24.8	24.6	22.4	21.0	20.8	19.9	18.1	17.5	21.3	21.1	20.3	19.7
15	24.7	23.5	21.5	21.0	20.0	17.8	18.4	17.7	21.3	20.8	20.8	20.3
16	23.5	22.6	21.6	21.2	18.6	17.8	18.7	18.2	20.8	19.6	21.2	20.5
17	22.9	22.7	22.0	21.5	19.3	18.4	18.8	18.1	19.6	18.9	21.0	20.4
18	22.8	22.4	22.4	21.8	18.4	17.4	19.5	18.7	18.9	18.0	20.7	19.9
19	22.9	22.5	22.8	22.1	17.7	17.3	18.7	17.6	18.1	17.6	20.9	20.1
20	23.0	22.7	22.1	20.8	17.3	16.4	18.3	17.3	18.4	17.8	21.0	20.6
21	23.1	22.7	20.8	20.5	16.5	16.1	17.3	16.7	19.9	18.4	21.2	20.7
22	22.8	22.5	20.9	20.5	17.6	16.5	17.0	16.8	20.5	19.8	21.0	20.3
23	23.1	22.7	21.3	20.8	18.6	17.6	16.8	16.6	20.6	20.1	20.3	19.6
24	22.8	22.2	21.6	21.1	19.2	18.5	16.9	16.4	21.4	20.5	19.7	19.4
25	22.7	22.3	21.9	21.5	19.1	18.4	17.8	16.9	21.0	18.4	20.0	19.7
26	23.5	22.7	22.0	21.6	18.7	18.3	19.2	17.8	19.1	18.4	20.8	20.0
27	23.6	23.3	22.0	21.7	19.1	18.6	20.3	18.7	19.1	16.6	21.3	20.7
28	23.8	23.4	21.9	21.4	19.2	18.7	18.9	17.2	16.6	15.5	21.6	21.1
29	23.4	22.6	21.4	19.0	19.9	19.2	17.2	16.1	17.3	16.0	21.7	21.2
30	22.6	22.1	19.1	18.6	20.1	19.6	17.0	16.5	---	---	21.6	21.1
31	22.8	22.3	---	---	20.8	20.0	17.3	17.0	---	---	21.9	21.2
MONTH	24.8	22.1	24.1	18.6	21.4	16.1	21.9	16.1	21.4	15.5	22.2	17.2
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21.5	20.4	23.4	23.0	25.8	24.2	25.5	24.4	26.0	25.6	25.9	25.3
2	20.5	19.9	23.9	23.0	25.7	24.3	25.5	25.0	25.8	25.6	26.1	25.5
3	20.8	19.9	23.8	23.3	25.4	24.2	25.2	24.8	25.8	25.3	26.4	25.8
4	20.7	19.8	23.3	22.3	25.2	24.0	25.5	25.0	25.6	25.3	26.4	26.0
5	20.8	19.9	22.3	21.8	24.7	23.7	25.3	24.8	26.0	25.6	26.1	24.1
6	20.9	19.8	22.2	21.6	25.0	23.8	25.9	25.3	---	---	24.4	24.1
7	21.7	20.4	22.7	21.9	24.9	23.8	25.8	25.5	---	---	25.9	24.4
8	22.2	21.1	23.1	22.4	25.2	24.0	25.7	25.0	---	---	26.6	25.9
9	22.9	21.9	23.2	22.5	25.3	24.1	25.8	25.2	---	---	26.8	26.3
10	23.0	22.1	23.2	22.7	25.3	24.4	26.0	25.3	---	---	26.7	26.1
11	22.7	21.9	23.5	22.8	24.9	24.1	25.9	25.2	26.4	25.6	27.1	26.4
12	22.3	21.2	23.8	23.1	25.4	24.8	25.4	24.9	26.4	26.0	27.1	26.6
13	21.2	20.9	24.1	23.2	25.7	25.0	25.6	24.8	26.4	25.5	26.9	26.5
14	20.9	19.8	24.2	23.4	25.8	25.0	25.9	24.9	25.5	24.4	26.9	26.6
15	19.9	19.3	24.4	23.3	25.4	24.9	25.7	25.0	24.9	24.4	26.7	26.4
16	20.1	19.4	24.1	23.4	25.7	25.2	25.4	24.7	25.6	24.8	27.0	26.4
17	20.7	19.9	24.3	23.4	26.0	25.5	24.9	24.5	26.3	25.6	27.3	26.6
18	21.2	20.3	24.3	23.4	25.9	25.5	24.8	24.5	26.4	25.9	27.2	26.8
19	21.7	20.8	24.4	23.4	26.0	25.4	24.7	24.4	26.2	25.9	26.9	26.1
20	21.9	21.1	24.6	23.5	25.8	25.4	24.7	24.4	27.0	26.2	26.3	25.2
21	22.0	21.4	24.6	23.3	25.8	25.2	25.1	24.5	26.9	26.5	25.2	24.7
22	22.4	21.5	24.7	23.4	26.0	25.4	26.3	25.1	26.5	25.7	25.2	24.5
23	22.7	21.9	24.7	23.4	26.2	25.4	26.4	25.8	25.9	25.4	25.2	24.6
24	23.2	22.0	24.7	23.4	26.3	25.4	26.4	25.7	25.4	25.2	25.2	24.6
25	23.4	22.3	25.0	23.5	26.0	25.2	26.2	25.7	25.8	25.2	25.1	24.5
26	23.7	22.8	25.1	23.7	26.0	25.1	26.1	25.6	25.9	25.4	24.8	24.0
27	23.2	22.4	25.4	23.9	25.7	24.8	25.7	25.2	26.1	25.6	25.0	23.8
28	22.6	21.7	25.4	23.9	25.0	24.6	25.4	24.7	26.0	25.5	26.0	25.0
29	22.9	22.0	25.1	23.6	25.0	24.4	26.0	25.2	25.9	25.3	26.4	25.7
30	23.7	22.4	25.4	23.8	24.7	24.3	26.3	25.7	25.9	25.4	26.5	25.8
31	---	---	25.7	24.0	---	---	26.3	25.8	25.8	25.4	---	---
MONTH	23.7	19.3	25.7	21.6	26.3	23.7	26.4	24.4	---	---	27.3	23.8

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)
NOV													
18...	0838	1.12	107	6.9	7.9	418	22.2	--	--	--	--	--	--
DEC													
17...	1311	1.41	143	5.3	7.8	384	17.8	56.0	4.60	3.30	12.0	.11	19.0
JAN													
14...	0850	1.12	107	7.6	7.9	383	17.9	--	--	--	--	--	--
MAR													
16...	1148	1.52	142	--	--	381	--	59.0	4.50	2.10	12.0	.11	18.0
16...	1248	1.59	151	--	--	--	--	60.0	4.50	2.00	12.0	.10	19.0
16...	1348	1.67	162	--	8.1	372	--	60.0	4.60	2.20	13.0	.07	19.0
16...	1548	1.84	185	--	8.1	235	--	59.0	4.70	2.50	14.0	.09	20.0
16...	1748	2.04	214	--	8.1	243	--	58.0	4.80	2.80	15.0	.10	22.0
16...	1948	2.17	233	--	8.1	388	--	56.0	4.90	2.80	15.0	.11	22.0
17...	0348	2.68	313	--	7.9	245	--	53.0	4.90	4.70	22.0	.09	30.0
17...	1148	2.75	324	--	7.8	135	--	39.0	3.70	3.00	10.0	.07	17.0
17...	2348	2.58	297	--	7.7	268	--	38.0	3.70	3.00	9.5	.05	16.0
18...	1148	2.28	250	--	7.8	286	--	41.0	3.80	2.80	9.6	.09	16.0
18...	2348	2.05	215	--	7.8	291	--	45.0	4.20	2.90	9.8	.06	16.0
19...	0958	1.95	201	--	--	--	--	46.0	4.40	2.70	9.8	.08	16.0
20...	0158	1.79	178	--	--	--	--	49.0	4.60	2.40	9.9	.09	16.0
21...	2158	1.59	151	--	--	--	--	53.0	4.70	2.50	12.0	.08	18.0
23...	0558	1.47	136	--	--	--	--	53.0	4.80	2.30	11.0	.08	18.0
JUN													
03...	0928	.72	62	7.4	8.0	378	24.4	--	--	--	--	--	--
29...	1300	1.60	167	6.3	7.9	389	24.9	--	--	--	--	--	--
AUG													
03...	1125	1.98	221	6.5	7.7	300	25.8	--	--	--	--	--	--
27...	1000	3.75	522	--	7.4	220	26.7	37.4	3.27	2.31	7.88	.23	11.3
SEP													
07...	0830	13.88	6,290	5.2	6.2	52	24.8	--	--	--	--	--	--
07...	0832	13.88	6,290	5.2	6.2	52	24.8	--	--	--	--	--	--



02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL.—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Total nitro- gen, wat unfiltered, by analysis, mg/L (62855)	Organic carbon, water, filtered, mg/L (00681)	Cadmium water, unfiltered, ug/L (01027)	Strontium, water, filtered, ug/L (01080)
NOV				
18...	--	--	--	--
DEC				
17...	--	6.0	--	240
JAN				
14...	--	--	--	--
MAR				
16...	--	--	--	290
16...	--	--	--	300
16...	--	--	--	300
16...	--	--	--	290
16...	--	--	--	280
16...	--	--	--	270
17...	--	--	--	210
17...	--	--	--	150
17...	--	--	--	150
18...	--	--	--	170
18...	--	--	--	190
19...	--	--	--	200
20...	--	--	--	220
21...	--	--	--	240
23...	--	--	--	250
JUN				
03...	--	--	--	--
29...	--	--	--	--
AUG				
03...	1.54	--	--	--
27...	--	23.9	.05	126
SEP				
07...	.94	--	--	--
07...	--	--	--	--

Remark codes used in this table:

&lt; -- Less than

E -- Estimated value

HILLSBOROUGH RIVER BASIN

02303100 NEW RIVER NEAR ZEPHYRHILLS, FL.

LOCATION.--Lat 28°09'55", long 82° 15'55" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.1, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, near left bank, 100 ft upstream from bridge on Morris Bridge Road, 1.8 mi upstream from mouth, and 7 mi southwest of Zephyrhills.

DRAINAGE AREA.--15 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1964 to September 1974; October 1974 to June 1981 (annual maximum); June 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 50 ft above National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.94 ft, Sept. 7, 2004; minimum, 1.70 ft, estimated, June 29, 30, July 1, 2, 3, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.94 ft, Sept. 7; minimum, 3.03 ft, June 7-10.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.09	3.77	3.63	3.65	4.59	5.67	3.62	3.56	3.04	5.33	4.44	5.51
2	4.84	3.76	3.63	3.65	4.63	5.16	3.61	3.54	3.04	4.90	4.38	5.01
3	4.66	3.74	3.63	3.66	4.73	4.79	3.61	3.57	3.04	4.60	4.38	4.80
4	4.51	3.71	3.63	3.66	4.70	4.55	3.60	3.59	3.04	4.36	4.57	4.68
5	4.38	3.70	3.63	3.66	4.56	4.38	3.59	3.57	3.04	4.27	5.13	6.10
6	4.27	3.72	3.63	3.66	4.39	4.25	3.58	3.54	3.04	4.25	5.94	9.46
7	4.44	3.77	3.63	3.66	4.23	4.15	3.58	3.49	3.04	4.17	6.88	9.83
8	5.47	3.77	3.62	3.67	4.11	4.07	3.58	3.44	3.04	4.07	8.47	9.45
9	5.18	3.82	3.62	3.68	4.02	4.00	3.57	3.38	3.04	3.97	7.84	8.81
10	4.93	3.87	3.62	3.68	3.97	3.93	3.56	3.32	3.26	3.88	7.48	8.32
11	4.73	3.97	3.62	3.68	3.91	3.87	3.55	3.28	3.63	3.79	7.47	7.96
12	4.58	4.00	3.62	3.68	3.88	3.83	3.73	3.23	3.57	3.76	7.32	7.75
13	4.50	3.97	3.63	3.69	3.85	3.79	3.67	3.16	3.63	3.80	7.11	7.53
14	4.51	3.90	3.67	3.70	3.83	3.76	3.63	3.09	3.78	3.75	7.04	7.18
15	4.54	3.84	3.64	3.71	3.86	3.74	3.63	3.06	3.73	3.68	6.94	6.74
16	4.46	3.79	3.64	3.72	3.85	3.78	3.62	3.05	3.67	3.67	6.71	6.37
17	4.34	3.76	3.64	3.73	3.85	3.80	3.62	3.05	3.64	3.66	6.63	6.02
18	4.23	3.73	3.64	3.77	3.85	3.76	3.62	3.05	3.63	3.79	6.73	5.70
19	4.14	3.73	3.64	3.70	3.82	3.73	3.61	3.04	3.62	4.61	6.95	5.45
20	4.06	3.74	3.64	3.69	3.80	3.70	3.61	3.04	3.79	5.49	6.90	5.21
21	4.00	3.73	3.64	3.68	3.78	3.68	3.61	3.04	3.78	5.71	6.63	5.16
22	3.95	3.71	3.64	3.68	3.76	3.66	3.60	3.04	3.96	5.43	6.16	5.13
23	3.90	3.69	3.64	3.68	3.73	3.64	3.60	3.04	3.87	5.17	5.85	5.05
24	3.85	3.67	3.64	3.68	3.88	3.62	3.58	3.04	3.77	4.96	5.84	4.93
25	3.82	3.66	3.64	3.68	5.55	3.62	3.57	3.04	3.70	4.70	5.47	4.80
26	3.79	3.65	3.64	3.69	6.80	3.64	3.54	3.04	3.67	4.47	5.12	6.46
27	3.77	3.64	3.64	3.86	7.37	3.64	3.52	3.04	3.81	4.63	4.89	8.47
28	3.76	3.64	3.65	4.08	7.17	3.64	3.57	3.04	4.49	4.56	4.75	8.95
29	3.81	3.63	3.65	4.47	6.49	3.64	3.61	3.04	6.02	4.42	4.72	8.58
30	3.80	3.63	3.65	4.51	---	3.63	3.58	3.04	5.80	4.40	4.76	8.08
31	3.79	---	3.65	4.51	---	3.63	---	3.04	---	4.43	4.78	---
MEAN	4.33	3.76	3.64	3.78	4.52	3.96	3.60	3.21	3.67	4.41	6.07	6.78
MAX	5.47	4.00	3.67	4.51	7.37	5.67	3.73	3.59	6.02	5.71	8.47	9.83
MIN	3.76	3.63	3.62	3.65	3.73	3.62	3.52	3.04	3.04	3.66	4.38	4.68

02303200 PEMBERTON CREEK NEAR DOVER, FL.

LOCATION.--Lat 28°01'34", long 82°14'12" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.19, T.28 S., R.21 E., Hillsborough County, Hydrologic Unit 03100205, on county highway bridge, 1.8 mi upstream from Baker Creek, 2.5 mi northwest of Dover, and 7.1 mi upstream from mouth.

DRAINAGE AREA.--24.1 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1956 to current year.

GAGE.--Miscellaneous measurement gage. Datum of gage is 53.04 ft above National Geodetic Vertical Datum of 1929.

## MISCELLANEOUS MEASUREMENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Discharge (ft <sup>3</sup> /s)
Oct. 9	12
Dec. 2	0.59
Feb. 3	18
Apr. 1	3.1
May 3	4.3
June 28	6.1
Aug. 2	41



02303200 PEMBERTON CREEK NEAR DOVER, FL.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1966 to current year (incomplete).

WATER QUALITY DATA, OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)
NOV 2003													
18...	1056	--	--	8.3	7.6	223	20.3	--	.80	--	.02	--	.360
JAN 2004													
14...	1110	52.11	--	10.8	8.0	265	11.0	--	.60	--	<.01	--	.030
JUN													
29...	1102	51.66	--	7.1	7.7	243	25.3	--	.80	--	.01	--	.180
AUG													
03...	0845	52.46	--	5.2	7.3	174	26.4	--	--	<.04	--	.11	--
24...	1045	53.09	--	5.2	7.1	152	26.1	--	--	E.03	--	.10	--
SEP													
07...	1059	59.03	759	3.9	6.5	91	25.3	--	--	<.04	--	E.03	--
07...	1100	59.03	759	3.9	6.5	91	25.3	<10	--	--	--	--	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 2003						
18...	--	.01	--	.500	.60	--
JAN 2004						
14...	--	<.01	--	.290	.30	--
JUN						
29...	--	<.01	--	.370	.42	--
AUG						
03...	<.008	--	.45	--	.60	1.28
24...	E.005	--	.52	--	.73	1.29
SEP						
07...	E.004	--	.45	--	.95	.98
07...	--	--	--	--	--	--

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

HILLSBOROUGH RIVER BASIN

02303205 BAKER CREEK AT MCINTOSH ROAD NEAR ANTIOCH, FL.

LOCATION.--Lat 28°01'41", long 82°14'44" (1927 North American datum), in SE 1/4 sec.19, T.28 S., R.21E., Hillsborough County, Hydrologic Unit 03100205, on upstream side of bridge on McIntosh Road, 2,000 ft north of intersection McIntosh Road and Interstate 4, 1.25 mi southeast of Antioch, and 2.5 mi upstream from mouth.

DRAINAGE AREA.--27.4 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1992 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 42.46 ft above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Prior to March 1997, flow included effluent from upstream industry. Collection, computaion and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	6.2	e1.5	5.9	21	22	6.0	12	0.00	13	28	64
2	37	5.3	0.14	5.6	20	19	6.2	8.9	0.00	12	28	62
3	30	4.8	0.25	5.6	18	17	6.1	11	0.00	11	23	43
4	25	4.5	0.11	5.5	16	16	5.5	17	0.84	11	27	33
5	22	5.5	0.89	5.2	15	15	4.6	16	0.02	12	37	137
6	19	8.4	3.3	4.9	14	14	3.3	13	2.5	10	41	572
7	e14	8.4	4.4	5.3	14	14	1.8	11	3.7	8.3	48	576
8	e12	7.1	4.0	7.2	13	13	2.1	9.7	1.3	7.6	142	450
9	11	6.3	1.6	8.3	12	11	4.0	8.4	0.18	6.7	117	362
10	11	5.9	0.28	11	11	11	4.1	6.6	5.3	5.9	85	437
11	10	6.2	0.93	11	11	11	3.9	5.3	28	4.9	69	281
12	9.7	7.3	3.7	9.9	10	11	13	4.8	29	2.8	55	190
13	9.6	6.5	4.4	8.7	10	11	15	4.4	21	0.74	50	150
14	9.4	4.6	13	8.5	11	10	14	3.9	20	0.18	68	118
15	8.6	4.2	16	9.0	13	9.4	13	2.9	27	0.15	102	95
16	8.3	e5.2	15	9.3	12	21	11	0.89	48	0.40	164	81
17	8.2	e7.4	14	8.6	12	31	10	0.36	36	3.8	112	71
18	7.9	e6.2	12	16	11	24	9.2	0.07	24	8.5	126	63
19	7.5	4.8	12	21	10	20	7.4	0.08	19	33	111	57
20	7.2	5.1	11	19	9.8	17	6.0	0.36	16	99	78	52
21	6.8	4.8	11	16	9.4	15	5.2	0.84	14	134	64	51
22	6.7	e3.1	9.9	15	8.9	13	4.9	1.0	11	79	52	49
23	6.7	e2.9	9.3	14	8.9	11	4.5	0.12	9.1	48	47	46
24	6.1	e5.5	9.0	13	13	10	2.3	0.03	7.4	35	43	45
25	5.8	e4.4	8.4	12	65	9.3	0.53	0.01	5.8	27	38	44
26	5.4	e2.2	7.7	11	61	8.6	0.09	0.00	4.6	21	49	265
27	4.7	e1.2	7.4	21	41	7.8	0.04	0.00	3.7	21	44	432
28	4.4	e0.83	6.9	19	31	7.2	0.03	0.00	5.7	37	36	364
29	8.3	e0.87	6.6	17	26	6.7	0.01	0.02	6.3	52	33	258
30	8.2	e1.6	6.5	14	---	6.2	7.4	0.03	10	43	29	176
31	7.3	---	6.2	15	---	5.9	---	0.02	---	31	29	---
TOTAL	383.8	147.30	207.40	352.5	528.0	418.1	171.20	138.73	359.44	778.97	1,975	5,624
MEAN	12.4	4.91	6.69	11.4	18.2	13.5	5.71	4.48	12.0	25.1	63.7	187
MAX	46	8.4	16	21	65	31	15	17	48	134	164	576
MIN	4.4	0.83	0.11	4.9	8.9	5.9	0.01	0.00	0.00	0.15	23	33
CFSM	0.45	0.18	0.24	0.41	0.66	0.49	0.21	0.16	0.44	0.92	2.33	6.84
IN.	0.52	0.20	0.28	0.48	0.72	0.57	0.23	0.19	0.49	1.06	2.68	7.64
*PREC	0.97	1.59	2.93	0.13	3.72	1.12	5.36	1.04	5.63	4.17	9.89	7.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2004, BY WATER YEAR (WY)

	20.0	12.3	22.7	20.9	18.2	17.9	9.87	6.85	14.4	21.5	33.2	52.2
MEAN	20.0	12.3	22.7	20.9	18.2	17.9	9.87	6.85	14.4	21.5	33.2	52.2
MAX	47.4	40.6	138	51.1	85.9	71.0	27.3	29.1	44.3	37.0	63.7	187
(WY)	(1995)	(1998)	(1998)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(1994)	(2004)	(2004)
MIN	1.78	0.45	0.48	0.98	1.19	0.05	0.01	0.00	0.19	4.96	9.12	7.49
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2001)	(1997)	(1996)	(1996)

SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1993 - 2004	
ANNUAL TOTAL	10,689.10		11,084.44			
ANNUAL MEAN	29.3		30.3		20.8	
HIGHEST ANNUAL MEAN					46.4	
LOWEST ANNUAL MEAN					6.55	
HIGHEST DAILY MEAN	292	Jan 1	576	Sep 7	576	Sep 7, 2004
LOWEST DAILY MEAN	0.11	Dec 4	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.76	Nov 28	0.01	May 26	0.00	Apr 26, 2000
MAXIMUM PEAK FLOW			607	Sep 7	764	Dec 27, 1997
MAXIMUM PEAK STAGE			8.91	Sep 7	10.63	Dec 27, 1997
ANNUAL RUNOFF (CFSM)	1.07		1.11		0.760	
ANNUAL RUNOFF (INCHES)	14.51		15.05		10.33	
10 PERCENT EXCEEDS	62		62		46	
50 PERCENT EXCEEDS	22		10		11	
90 PERCENT EXCEEDS	4.8		0.89		0.35	

e Estimated

\* Precipitation, total, inches

## 02303325 HILLSBOROUGH RIVER AT SARGEANT PARK NEAR THONOTOSASSA, FL.

LOCATION.--Lat 28°04'52", long 82°17'09" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.2, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on left side, in canoe launch area of Sargeant Park, 500 ft south of main stem of Hillsborough River and Flint Creek, 2.5 mi north of Thonotosassa, and 35 mi upstream from mouth.

DRAINAGE AREA.--370 mi<sup>2</sup>.

PERIOD OF RECORD.--July 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 32.74 ft, Sept. 8, 9, 2004; minimum, 26.45 ft, June 3, 4, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 32.74 ft, Sept. 8, 9; minimum, 26.45 ft, June 3, 4.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.16	27.32	27.02	27.05	27.86	28.62	27.10	26.97	26.51	27.91	28.01	28.49
2	28.11	27.30	26.99	27.04	28.02	28.49	27.05	27.15	26.48	27.91	28.06	28.51
3	28.05	27.28	26.97	27.03	28.17	28.37	27.01	27.40	26.47	27.83	28.22	28.65
4	27.99	27.27	26.95	27.02	28.18	28.20	26.97	27.56	26.47	27.74	28.48	28.69
5	27.94	27.29	26.95	27.02	28.12	28.06	26.94	27.57	26.54	27.70	28.69	28.84
6	27.89	27.33	26.95	27.01	27.95	27.96	26.91	27.59	26.72	27.65	28.56	30.52
7	27.83	27.40	26.93	26.98	27.78	27.89	26.89	27.61	27.04	27.60	28.49	32.04
8	27.77	27.43	26.93	26.96	27.66	27.82	26.88	27.60	26.94	27.52	29.09	32.57
9	27.76	27.44	26.94	26.98	27.57	27.75	26.88	27.54	26.86	27.43	29.85	32.67
10	27.84	27.42	26.95	27.11	27.51	27.67	26.86	27.46	27.05	27.34	29.90	32.51
11	27.87	27.41	26.94	27.10	27.46	27.61	26.86	27.28	27.24	27.24	29.75	32.23
12	27.84	27.39	26.94	27.10	27.41	27.54	27.17	27.10	27.23	27.14	29.62	31.96
13	27.79	27.49	26.93	27.10	27.38	27.49	27.41	26.98	27.26	27.08	29.47	31.67
14	27.76	27.53	27.18	27.08	27.36	27.43	27.54	26.91	27.40	27.02	29.47	31.34
15	27.73	27.54	27.39	27.06	27.38	27.39	27.57	26.86	27.53	26.96	29.56	31.00
16	27.69	27.53	27.43	27.04	27.36	27.52	27.50	26.88	27.64	26.96	29.63	30.67
17	27.65	27.52	27.47	27.02	27.35	27.72	27.42	26.89	27.71	27.09	29.63	30.37
18	27.61	27.50	27.42	27.23	27.32	27.96	27.34	26.85	27.69	27.22	29.60	30.11
19	27.57	27.51	27.36	27.44	27.29	28.02	27.26	26.80	27.60	27.64	29.60	29.88
20	27.53	27.51	27.31	27.53	27.25	27.92	27.19	26.77	27.58	28.44	29.49	29.65
21	27.49	27.49	27.26	27.59	27.22	27.81	27.13	26.72	27.66	28.93	29.40	29.49
22	27.45	27.47	27.22	27.66	27.20	27.71	27.08	26.69	27.54	28.99	29.27	29.33
23	27.41	27.45	27.20	27.66	27.17	27.62	27.04	26.66	27.42	28.89	29.16	29.18
24	27.37	27.38	27.17	27.63	27.24	27.55	27.00	26.63	27.36	28.71	29.11	29.03
25	27.34	27.26	27.15	27.60	27.97	27.48	26.96	26.61	27.30	28.52	29.07	28.99
26	27.30	27.18	27.13	27.57	28.88	27.41	26.93	26.59	27.25	28.28	28.95	29.26
27	27.28	27.12	27.11	27.62	29.08	27.35	26.91	26.56	27.24	28.11	28.82	30.32
28	27.27	27.09	27.09	27.67	28.94	27.29	26.88	26.54	27.27	27.94	28.72	31.10
29	27.35	27.06	27.07	27.78	28.77	27.24	26.84	26.53	27.38	28.06	28.65	31.30
30	27.34	27.03	27.05	27.78	---	27.19	26.84	26.52	27.73	28.15	28.59	31.28
31	27.33	---	27.04	27.77	---	27.14	---	26.52	---	28.09	28.52	---
MEAN	27.66	27.36	27.11	27.30	27.75	27.72	27.08	26.98	27.20	27.81	29.08	30.39
MAX	28.16	27.54	27.47	27.78	29.08	28.62	27.57	27.61	27.73	28.99	29.90	32.67
MIN	27.27	27.03	26.93	26.96	27.17	27.14	26.84	26.52	26.47	26.96	28.01	28.49

## 02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL.

LOCATION.--Lat 28°05'50", long 82°18'45" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.33, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on downstream side of bridge on State Highway 579, 2.9 mi north of Thonotosassa, 3.4 mi upstream from Trout Creek, and 29 mi upstream from mouth.

DRAINAGE AREA.--375 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Prior to April 1964 (miscellaneous discharge measurements only); April 1964 to April 1965 (fragmentary); May 1965 to September 1968 (gage heights only); October 1968 to June 1972 (gage heights and miscellaneous discharge measurements); July 1972 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Oct. 16, 1972, nonrecording gage at same site and datum.

REMARKS.--Records poor. Flow regulated during flood stage by operation of Tampa Bypass Canal at Structure S-155 (station 02303354) 3.0 mi downstream since 1985. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371	105	65	67	163	798	118	87	60	285	419	542
2	407	102	64	66	176	693	112	98	59	329	377	519
3	402	99	62	66	216	610	106	125	58	327	419	557
4	375	96	62	65	246	527	101	167	57	302	519	625
5	346	96	61	65	249	443	97	186	58	278	673	775
6	322	100	61	64	231	380	94	196	65	257	742	2,010
7	298	103	60	63	192	336	91	201	80	241	701	3,890
8	273	103	59	62	158	305	90	205	86	223	871	5,710
9	254	104	59	63	139	277	89	200	86	201	1,870	5,590
10	252	102	60	68	127	254	87	187	102	180	2,210	5,140
11	268	99	60	69	119	234	87	167	126	159	2,130	4,400
12	269	96	59	69	114	216	123	132	130	140	1,660	3,730
13	257	95	59	69	110	201	152	108	131	126	1,500	3,150
14	243	99	71	69	109	188	172	95	160	116	1,590	2,620
15	228	102	82	68	110	177	192	88	185	105	1,490	2,160
16	214	101	86	67	108	203	195	88	200	102	1,440	1,970
17	202	100	89	66	107	226	182	89	223	121	1,410	1,830
18	191	98	90	78	106	263	165	86	239	154	1,470	1,710
19	180	98	87	87	104	323	149	83	234	259	1,570	1,610
20	169	97	84	94	102	331	135	80	246	471	1,590	1,560
21	160	94	81	100	100	301	123	77	275	807	1,490	1,440
22	150	91	78	109	97	267	115	75	236	1,010	1,350	1,340
23	141	89	76	115	95	238	108	72	203	1,010	1,210	1,230
24	131	86	75	115	108	216	102	70	178	893	1,120	1,070
25	123	82	73	113	241	198	97	68	169	753	1,070	967
26	116	76	72	111	494	182	93	67	163	618	979	1,150
27	110	72	71	125	996	167	90	65	166	506	865	1,840
28	107	69	70	124	1,060	154	88	63	191	417	762	2,640
29	113	67	69	131	929	144	85	62	191	378	684	2,780
30	110	66	68	146	---	134	84	61	225	414	625	2,430
31	108	---	67	153	---	125	---	60	---	425	577	---
TOTAL	6,890	2,787	2,180	2,727	7,106	9,111	3,522	3,408	4,582	11,607	35,383	66,985
MEAN	222	92.9	70.3	88.0	245	294	117	110	153	374	1,141	2,233
MAX	407	105	90	153	1,060	798	195	205	275	1,010	2,210	5,710
MIN	107	66	59	62	95	125	84	60	57	102	377	519
AC-FT	13,670	5,530	4,320	5,410	14,090	18,070	6,990	6,760	9,090	23,020	70,180	132,900
CFSM	0.59	0.25	0.19	0.23	0.65	0.78	0.31	0.29	0.41	1.00	3.04	5.95
IN.	0.68	0.28	0.22	0.27	0.70	0.90	0.35	0.34	0.45	1.15	3.51	6.64
*PREC	1.03	1.87	1.68	5.00	4.59	1.63	2.39	1.27	13.97	9.94	7.98	17.89

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY)

MEAN	274	145	216	219	237	288	165	100	171	296	453	619
MAX	910	578	1,907	1,012	1,710	2,203	822	447	921	1,030	1,171	2,233
(WY)	(1980)	(1998)	(1998)	(2003)	(1998)	(1998)	(1987)	(1979)	(1976)	(1991)	(2003)	(2004)
MIN	64.0	39.0	38.2	37.0	34.1	36.3	36.9	27.4	27.3	38.9	76.0	101
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2001)	(2000)	(2000)	(1993)	(1999)

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1973 - 2004	
ANNUAL TOTAL	178,644		156,288			
ANNUAL MEAN	489		427		265	
HIGHEST ANNUAL MEAN					834	1998
LOWEST ANNUAL MEAN					65.1	2000
HIGHEST DAILY MEAN	2,360	Jan 2	5,710	Sep 8	5,710	Sep 8, 2004
LOWEST DAILY MEAN	59	Dec 8	57	Jun 4	21	Jun 23, 2000
ANNUAL SEVEN-DAY MINIMUM	59	Dec 7	59	May 30	23	Jun 18, 2000
MAXIMUM PEAK FLOW			**5,910	Sep 8	**5,910	Sep 8, 2004
MAXIMUM PEAK STAGE			**34.35	Sep 8	**34.35	Sep 8, 2004
ANNUAL RUNOFF (AC-FT)	354,300		310,000		192,300	
ANNUAL RUNOFF (CFSM)	1.31		1.14		0.708	
ANNUAL RUNOFF (INCHES)	17.72		15.50		9.62	
10 PERCENT EXCEEDS	1,360		1,220		619	
50 PERCENT EXCEEDS	267		145		120	
90 PERCENT EXCEEDS	88		67		58	

\* Precipitation, total, inches  
 \*\*Affected by backwater

GAGE HEIGHT, FEET  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.60	25.45	25.03	25.09	26.24	27.80	25.17	24.75	24.04	26.22	26.80	27.41
2	26.68	25.43	25.00	25.08	26.33	27.56	25.10	24.93	24.01	26.41	26.66	27.35
3	26.63	25.41	24.97	25.06	26.57	27.34	25.03	25.23	23.97	26.41	26.80	27.45
4	26.53	25.38	24.94	25.05	26.72	27.11	24.97	25.59	23.94	26.30	27.12	27.62
5	26.44	25.40	24.93	25.04	26.73	26.84	24.90	25.72	23.98	26.20	27.54	27.94
6	26.36	25.48	24.91	25.03	26.62	26.63	24.85	25.79	24.19	26.10	27.71	29.86
7	26.28	25.53	24.89	24.99	26.37	26.46	24.82	25.82	24.58	26.02	27.61	32.36
8	26.18	25.55	24.88	24.96	26.13	26.32	24.79	25.84	24.70	25.92	27.95	34.07
9	26.10	25.58	24.88	24.98	25.96	26.20	24.78	25.82	24.68	25.80	29.41	34.30
10	26.11	25.58	24.89	25.13	25.84	26.08	24.75	25.73	24.95	25.66	29.77	34.11
11	26.21	25.55	24.89	25.14	25.76	25.98	24.74	25.59	25.23	25.51	29.69	33.76
12	26.24	25.52	24.87	25.14	25.69	25.88	25.21	25.31	25.26	25.37	29.71	33.40
13	26.20	25.53	24.87	25.15	25.63	25.79	25.48	25.06	25.27	25.25	30.39	33.05
14	26.14	25.61	25.20	25.14	25.60	25.71	25.63	24.88	25.50	25.15	30.68	32.67
15	26.08	25.67	25.48	25.12	25.61	25.64	25.76	24.76	25.67	25.02	30.36	32.26
16	26.02	25.68	25.56	25.09	25.57	25.80	25.78	24.76	25.76	24.98	30.18	31.85
17	25.97	25.68	25.63	25.06	25.55	25.94	25.70	24.78	25.89	25.21	29.91	31.45
18	25.92	25.66	25.64	25.37	25.52	26.14	25.58	24.73	25.98	25.47	29.54	31.08
19	25.86	25.68	25.59	25.58	25.48	26.42	25.45	24.65	25.95	26.12	29.38	30.75
20	25.80	25.69	25.52	25.69	25.44	26.45	25.34	24.57	26.00	26.94	29.21	30.20
21	25.75	25.66	25.45	25.78	25.40	26.32	25.23	24.51	26.15	27.84	29.07	29.54
22	25.70	25.63	25.39	25.87	25.35	26.16	25.14	24.45	25.95	28.24	28.89	29.14
23	25.64	25.60	25.35	25.94	25.31	26.01	25.06	24.38	25.76	28.24	28.70	28.83
24	25.57	25.57	25.31	25.93	25.43	25.89	24.98	24.33	25.60	28.02	28.56	28.50
25	25.52	25.47	25.26	25.89	26.33	25.78	24.91	24.29	25.54	27.73	28.50	28.32
26	25.46	25.34	25.22	25.85	27.14	25.68	24.85	24.24	25.50	27.40	28.34	28.61
27	25.42	25.23	25.20	25.99	28.24	25.58	24.80	24.19	25.52	27.08	28.14	29.70
28	25.39	25.16	25.17	25.97	28.31	25.49	24.76	24.15	25.70	26.79	27.93	31.08
29	25.48	25.10	25.15	26.02	28.07	25.40	24.70	24.10	25.70	26.66	27.77	32.08
30	25.47	25.06	25.12	26.14	---	25.32	24.67	24.06	25.91	26.79	27.63	32.41
31	25.46	---	25.10	26.18	---	25.24	---	24.06	---	26.83	27.50	---
MEAN	25.97	25.50	25.17	25.43	26.17	26.16	25.10	24.87	25.23	26.38	28.63	30.70
MAX	26.68	25.69	25.64	26.18	28.31	27.80	25.78	25.84	26.15	28.24	30.68	34.30
MIN	25.39	25.06	24.87	24.96	25.31	25.24	24.67	24.06	23.94	24.98	26.66	27.35

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-83, 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, ftrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfiltered 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, ftrd, mg/L (00915)	Magnesium, water, ftrd, mg/L (00925)	Potassium, water, ftrd, mg/L (00935)	Sodium, water, ftrd, mg/L (00930)
NOV 18...	0724	25.67	99	--	--	4.7	7.6	335	20.7	--	--	--	--
JAN 14...	0740	25.14	69	20	--	7.8	7.6	384	13.4	57.0	4.60	2.10	12.0
JUN 03...	0802	23.98	58	10	--	5.4	8.1	389	26.4	61.0	4.60	1.30	9.9
JUN 29...	0759	25.71	192	--	--	5.3	7.5	337	24.5	--	--	--	--
AUG 03...	1230	26.72	395	100	--	3.8	7.3	254	26.4	36.1	3.44	3.13	10.3
SEP 29...	1122	32.11	2,820	200	764	1.2	6.7	88	25.6	12.4	1.30	2.57	3.12

Date	Chloride, water, ftrd, mg/L (00940)	Fluoride, water, ftrd, mg/L (00950)	Silica, water, ftrd, mg/L (00955)	Sulfate, water, ftrd, mg/L (00945)	Residue on evap. at 180degC wat ftrd mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia, water, ftrd, mg/L as N (00608)	Ammonia, water, unfltrd mg/L as N (00610)	Nitrite + nitrate, water, ftrd, mg/L as N (00631)	Nitrite + nitrate, water, unfltrd mg/L as N (00630)	Nitrite, water, ftrd, mg/L as N (00613)	Nitrite, water, unfltrd mg/L as N (00615)	Orthophosphate, water, ftrd, mg/L as P (00671)
NOV 18...	--	--	--	--	--	.60	--	.04	--	.490	--	<.01	--
JAN 14...	20.0	.2	7.50	13.0	231	.40	--	.02	--	.860	--	<.01	--
JUN 03...	16.0	.2	8.20	14.0	227	.30	--	.04	--	1.40	--	<.01	--
JUN 29...	--	--	--	--	--	.80	--	.05	--	.540	--	.01	--
AUG 03...	17.1	.3	8.95	9.1	188	--	E.02	--	.13	--	<.008	--	.37
SEP 29...	5.24	.2	3.65	2.2	84	--	<.04	--	<.06	--	E.004	--	.46

Date	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfiltered by analysis, mg/L (62855)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic, water, unfltrd ug/L (01002)	Cadmium, water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)	Mercury, water, unfltrd recoverable, ug/L (71900)	Nickel, water, unfltrd recoverable, ug/L (01067)	Strontium, water, ftrd, ug/L (01080)
NOV 18...	.210	.22	--	--	--	--	--	--	--	--	--	--	--
JAN 14...	.120	.12	--	39	5	<1.0	<1	<1.0	165	<1.0	3.2	1.9	280
JUN 03...	.090	.14	--	78	<1	<1.0	<1	<1.0	82	<1.0	<1	<1.0	320
JUN 29...	.230	.26	--	--	--	--	--	--	--	--	--	--	--
AUG 03...	--	.44	1.19	45	E1	E.03	E.4	.8	320	.15	<.02	1.41	152
SEP 29...	--	.53	.86	86	E1	<.04	E.5	.7	410	.21	<.02	.51	44.8

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL.—Continued

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Zinc, water, unfltrd recover -able, ug/L (01092)
NOV 18...	--
JAN 14...	<2
JUN 03...	<2
29...	--
AUG 03...	E2
SEP 29...	2

Remark codes used in  
this table:  
< -- Less than  
E -- Estimated  
value

## 02303332 HILLSBOROUGH RIVER AT NATURES CLASSROOM NEAR THONOTOSASSA, FL.

LOCATION.--Lat 28°05'13", long 82°19'58"(1927 North American datum), in NE $\frac{1}{4}$  sec.32, T.27 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on left bank, at Hillsborough County school Boards Natures Classroom, 2.5 mi northwest of Thonotosassa, and 27 mi upstream from mouth.

DRAINAGE AREA.--393 mi<sup>2</sup>.

PERIOD OF RECORD.--August 2002 to current year (gage heights only), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 31.98 ft, Dec. 16, 2002; minimum observed, 22.26 ft, Dec. 5, 2003.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, >27.10 ft, numerous days during hurricanes; minimum, 22.26 ft, Dec. 5.

REMARKS.--River over top of outside vertical gage during hurricanes.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.66	---	22.84	---	---	25.28	23.08	---	---	---	---	24.72
2	23.82	---	22.84	---	---	25.10	23.06	---	---	---	---	24.55
3	23.86	23.00	22.80	---	---	24.88	---	22.80	---	---	---	---
4	---	23.00	22.78	---	---	24.58	---	22.92	---	---	---	---
5	---	23.02	22.26	---	---	24.40	22.95	23.08	---	---	---	---
6	---	23.04	---	---	---	---	22.90	23.14	---	---	---	---
7	23.60	23.26	---	---	---	---	22.85	23.20	---	---	---	>27.10
8	23.58	---	22.74	---	---	23.78	22.80	---	---	---	---	---
9	23.60	---	22.70	---	---	23.70	---	---	---	---	---	---
10	23.58	23.36	22.68	---	---	23.62	---	23.24	---	---	---	---
11	---	23.32	22.64	---	---	23.56	---	23.20	---	---	---	---
12	---	23.28	22.62	---	---	23.52	---	23.20	---	---	---	---
13	23.60	23.20	---	---	---	---	23.10	23.05	---	---	---	---
14	23.58	23.18	---	---	---	---	23.20	22.95	---	---	---	---
15	23.56	---	22.96	---	---	23.28	23.30	---	---	---	---	---
16	23.46	---	23.04	---	---	23.38	23.31	---	---	---	>27.10	---
17	23.38	23.10	23.12	---	23.36	23.42	---	---	---	---	---	---
18	---	23.08	23.16	---	23.32	23.46	---	---	---	---	---	---
19	---	23.08	23.18	---	23.28	23.44	23.22	---	---	---	---	---
20	23.18	23.10	---	---	23.26	---	23.16	---	---	---	>27.10	---
21	23.16	23.12	---	---	---	---	23.10	---	---	---	---	---
22	23.12	---	---	---	---	---	23.09	---	---	---	---	---
23	23.10	---	---	---	23.20	---	23.06	---	---	---	26.70	---
24	23.08	23.08	---	---	23.28	---	---	---	---	---	26.40	---
25	---	23.08	---	---	23.68	---	---	---	---	---	26.28	---
26	---	---	---	---	24.18	---	22.90	---	---	---	26.25	---
27	23.00	---	---	---	24.90	---	22.88	---	---	---	26.06	---
28	22.98	---	---	---	---	---	22.85	---	---	---	---	---
29	23.06	---	---	---	---	23.20	22.76	---	---	---	---	---
30	23.02	---	---	---	---	23.16	22.70	---	---	---	25.10	>27.10
31	23.04	---	---	---	---	23.10	---	---	---	---	24.75	---

> Actual value is known to be greater than the value shown



02303350 TROUT CREEK NEAR SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°08'20", long 82°21'50" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.13, T.27 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, at bridge on State Highway 581, 4.1 mi upstream from mouth, and 9.0 mi northeast of Sulphur Springs.

DRAINAGE AREA.--23 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1962 (miscellaneous high-water discharge measurements only); February 1964 to November 1966 (discharge measurements and crest-stage partial records); December 1966 to May 1974 (discharge measurements only); June 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Sept. 12, 1974, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	4.0	3.3	3.6	51	82	1.0	0.02	0.00	28	39	37
2	25	3.4	2.9	3.6	57	61	0.94	0.00	0.00	23	34	28
3	22	2.9	2.7	3.9	51	45	0.90	0.14	0.00	20	30	22
4	18	2.6	2.6	4.2	44	35	0.82	0.44	0.00	20	147	18
5	14	13	2.4	4.6	37	29	0.76	0.22	0.00	34	222	42
6	12	54	3.1	4.9	32	23	0.69	0.09	0.00	32	175	958
7	11	70	3.6	4.7	28	18	0.59	0.00	0.00	28	156	e1,630
8	27	56	3.3	4.3	26	15	0.46	0.00	0.00	24	301	e1,130
9	67	43	3.0	4.3	22	12	0.34	0.00	0.00	e23	563	e692
10	76	36	2.7	5.5	18	9.5	0.22	0.00	0.00	e26	711	451
11	66	30	2.6	6.4	18	7.6	0.17	0.00	0.00	e24	529	330
12	54	23	2.5	6.0	17	6.2	8.2	0.00	3.5	e22	346	241
13	50	19	2.3	5.3	17	5.6	37	0.00	11	e24	244	177
14	48	14	3.1	4.8	16	4.9	24	0.00	20	e10	224	144
15	40	11	5.7	4.3	21	4.2	14	0.00	30	3.6	272	129
16	33	8.0	8.5	4.2	23	4.6	11	0.00	21	3.6	247	109
17	26	6.8	7.8	4.1	20	6.0	9.0	0.00	14	5.3	187	90
18	20	6.6	6.5	12	18	6.8	6.6	0.00	6.9	23	151	74
19	16	6.8	6.0	27	15	5.9	5.0	0.00	3.9	97	120	59
20	13	8.2	6.0	20	13	5.2	4.4	0.00	2.6	225	93	47
21	10	9.4	6.0	16	12	5.0	3.4	0.00	1.9	281	71	41
22	8.3	8.6	5.6	14	11	4.8	2.5	0.00	2.3	188	56	40
23	7.0	7.7	5.2	11	9.7	4.1	1.7	0.00	1.8	128	43	40
24	5.6	7.2	4.7	9.5	14	3.4	1.2	0.00	1.6	93	63	34
25	4.5	6.8	4.8	8.2	155	3.0	0.95	0.00	3.1	66	144	29
26	3.9	6.3	4.7	7.3	262	2.6	0.74	0.00	3.2	47	135	75
27	3.5	5.5	4.4	37	224	2.2	0.57	0.00	2.9	65	97	386
28	3.4	4.6	4.1	74	151	1.9	0.41	0.00	5.5	101	62	457
29	4.0	3.9	4.0	54	111	1.7	0.24	0.00	20	86	43	315
30	4.8	3.6	3.9	43	---	1.4	0.14	0.00	28	75	38	209
31	4.9	---	3.7	42	---	1.2	---	0.00	---	56	39	---
TOTAL	724.9	481.9	131.7	453.7	1,493.7	417.8	137.94	0.91	183.20	1,881.5	5,582	8,034
MEAN	23.4	16.1	4.25	14.6	51.5	13.5	4.60	0.03	6.11	60.7	180	268
MAX	76	70	8.5	74	262	82	37	0.44	30	281	711	1,630
MIN	3.4	2.6	2.3	3.6	9.7	1.2	0.14	0.00	0.00	3.6	30	18
CFSM	1.02	0.70	0.18	0.64	2.24	0.59	0.20	0.00	0.27	2.64	7.83	11.6
IN.	1.17	0.78	0.21	0.73	2.42	0.68	0.22	0.00	0.30	3.04	9.03	12.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	14.3	7.41	18.9	13.7	22.4	26.9	9.04	7.65	8.95	20.2	43.8	66.3
MAX	72.7	70.8	285	67.5	202	161	69.6	117	81.2	81.1	180	268
(WY)	(1996)	(1989)	(1998)	(1998)	(1998)	(1987)	(1987)	(1979)	(1982)	(1986)	(2004)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
(WY)	(1981)	(1979)	(1979)	(1981)	(1985)	(1985)	(1985)	(1975)	(1977)	(1977)	(1993)	(1996)

HILLSBOROUGH RIVER BASIN

02303350 TROUT CREEK NEAR SULPHUR SPRINGS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	13,812.38		19,523.25			
ANNUAL MEAN	37.8		53.3		21.6	
HIGHEST ANNUAL MEAN					85.7	1998
LOWEST ANNUAL MEAN					2.10	1977
HIGHEST DAILY MEAN	293	Jan 2	1,630	Sep 7	1,630	Sep 7, 2004
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	May 30	0.00	May 7	0.00	Nov 25, 1974
MAXIMUM PEAK FLOW			1,830	Sep 7	1,830	Sep 7, 2004
MAXIMUM PEAK STAGE			*43.15	Sep 7	43.15	Sep 7, 2004
ANNUAL RUNOFF (CFSM)	1.65		2.32		0.941	
ANNUAL RUNOFF (INCHES)	22.34		31.58		12.78	
10 PERCENT EXCEEDS	105		138		57	
50 PERCENT EXCEEDS	17		9.4		1.5	
90 PERCENT EXCEEDS	2.1		0.00		0.00	

e Estimated

\* From high water mark

02303350 TROUT CREEK NEAR SULPHUR SPRINGS, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1966, 1968-83, 1992 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)
NOV 24...	1158	36.28	7.3	--	5.1	7.5	300	18.8	.60	--	.02	--	.050
JAN 13...	1322	36.15	5.3	--	7.7	7.7	384	12.4	.60	--	.01	--	<.020
JUN 30...	0843	37.18	28	--	5.4	7.2	327	24.8	1.0	--	.03	--	.100
AUG 04...	0810	38.34	92	--	5.5	7.1	196	26.1	--	E.02	--	.07	--
AUG 25...	0945	39.02	148	--	4.6	7.0	116	25.5	--	E.02	--	.07	--
SEP 08...	0905	41.28	596	760	3.8	6.4	70	26.0	--	<.04	--	<.06	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 24...	--	<.01	--	.050	.07	--
JAN 13...	--	<.01	--	.040	.06	--
JUN 30...	--	<.01	--	.080	.10	--
AUG 04...	<.008	--	.05	--	.12	1.07
AUG 25...	E.004	--	.05	--	.12	.92
SEP 08...	<.008	--	.03	--	.09	.70

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

## 02303360 HILLSBOROUGH RIVER AT RIVERFRONT PARK NEAR TAMPA, FL.

LOCATION.--Lat 28°04'11", long 82°22'38" (1927 North American datum), in SE $\frac{1}{4}$  sec.2, T.28 S., R.20 E., Hillsborough County, Hydrologic Unit 03100205, on right bank, at University of South Florida Riverfront Park, 200 ft upstream from Fletcher Avenue bridge, 1.5 mi upstream from Cow House Creek, and 10.5 mi northeast of Tampa.

DRAINAGE AREA.--430 mi<sup>2</sup>.

PERIOD OF RECORD.--August 2002 to current year (gage heights only), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed, 27.56 ft, Sept. 7, 2004; minimum observed, 20.34 ft, June 3, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 27.56 ft, Sept. 7; minimum observed, 20.34 ft, June 3.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.10	---	---	---	---	---	22.64	22.26	---	22.14	23.10	23.80
2	---	---	---	---	---	---	---	22.18	20.46	22.14	---	23.54
3	23.16	---	---	---	---	24.04	22.62	---	20.34	22.32	22.84	---
4	23.14	---	---	---	---	23.85	22.56	---	---	22.38	23.08	---
5	23.06	---	---	---	---	---	---	22.24	---	22.38	23.25	---
6	---	---	---	---	---	---	---	---	---	---	23.58	---
7	---	---	---	---	---	---	22.36	---	---	22.50	---	27.56
8	---	---	---	---	---	---	22.30	---	---	22.46	24.16	26.96
9	22.96	---	---	---	---	---	---	---	---	22.38	---	26.42
10	---	---	---	---	---	---	---	---	20.72	22.20	---	---
11	22.94	---	---	---	22.60	---	22.06	---	21.14	22.03	---	25.98
12	---	---	---	---	22.64	---	---	22.48	21.40	---	---	25.92
13	---	---	---	---	22.66	---	---	22.45	21.58	22.06	---	---
14	---	---	---	---	22.66	---	22.68	---	22.08	21.80	---	26.28
15	---	---	---	---	22.68	---	22.76	22.32	22.30	21.71	---	26.28
16	---	---	---	---	---	---	22.77	22.22	22.46	21.62	---	26.16
17	---	---	---	---	---	22.82	---	---	22.59	21.90	---	---
18	---	---	---	---	22.78	22.85	22.69	---	22.68	---	26.94	25.72
19	---	---	---	---	22.80	22.86	---	---	22.70	22.88	---	25.38
20	---	---	---	---	22.80	---	---	21.83	---	23.64	26.78	---
21	---	---	---	---	---	22.90	22.62	---	---	24.24	---	---
22	---	---	---	---	22.76	---	22.61	21.72	---	24.66	26.33	26.38
23	---	---	---	---	---	---	22.62	21.65	---	---	---	26.10
24	---	---	---	---	22.76	22.83	22.58	---	---	24.86	---	26.00
25	---	---	---	---	---	22.81	22.54	---	---	24.68	25.62	---
26	---	---	---	---	23.28	22.78	---	21.40	---	---	25.60	---
27	---	---	---	---	23.78	22.78	---	21.32	22.30	---	---	---
28	---	---	---	---	24.34	22.66	22.28	21.23	22.18	23.76	---	25.52
29	---	---	---	---	24.53	---	22.18	21.12	22.18	23.50	24.70	25.82
30	---	---	---	---	---	22.64	22.14	20.99	22.18	23.40	---	---
31	---	---	---	---	---	22.64	---	---	---	23.28	---	---

## 02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL.

LOCATION.--Lat 28° 19'25", long 82° 23'03" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.11, T.25 S., R.19 E., Pasco County, Hydrologic Unit 03100205, at center on downstream side of box culverts on State Highway 52, 3.3 mi downstream from Bee Tree Branch, 6.8 mi west of San Antonio, 12 mi west of Dade City, and 25 mi upstream from mouth.

DRAINAGE AREA.--56.0 mi<sup>2</sup>.

PERIOD OF RECORD.--December 1962 to current year.

REVISED RECORDS.--WDR FL 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Aug. 25, 1965, at present datum; Aug 25, 1965 to Sept. 30, 1983, at same site at datum 70.00 ft higher.

REMARKS.--Records poor. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	21	8.0	7.3	e34	e53	5.3	0.26	0.00	10	e50	e45
2	38	19	7.7	7.1	e32	e48	4.8	0.21	0.00	11	50	e43
3	35	18	7.5	6.9	e32	41	4.5	0.32	0.00	18	48	e33
4	33	e18	7.3	6.8	e32	38	4.1	0.41	0.00	19	e54	e53
5	30	e16	7.0	6.5	e30	35	3.7	0.31	0.00	19	e69	e275
6	29	e25	6.6	6.2	e27	32	3.3	0.22	0.00	20	e97	e544
7	28	e15	6.4	5.9	e24	30	3.1	0.15	0.00	20	e120	880
8	28	e17	6.2	5.8	e23	28	2.9	0.09	0.00	16	e185	838
9	30	e20	6.1	6.0	e25	25	2.6	0.06	0.00	10	e201	639
10	32	e18	6.1	6.0	e21	24	2.3	0.04	0.00	8.6	e174	516
11	33	e16	5.9	5.6	e20	22	2.1	0.03	0.00	7.8	e136	408
12	35	e16	5.8	5.4	e20	21	5.1	0.02	0.00	7.3	e141	353
13	39	e16	5.9	5.3	e20	20	4.8	0.00	0.02	7.1	e136	310
14	46	e16	9.6	5.2	20	18	3.9	0.00	e0.25	6.7	e128	270
15	49	e16	9.2	5.1	25	17	3.5	0.00	e1.9	6.1	e160	235
16	46	e16	9.7	5.1	24	18	3.3	0.00	e4.9	5.9	e164	214
17	42	e16	11	5.0	25	16	3.0	0.00	e6.6	6.1	e154	194
18	38	14	12	7.2	25	15	2.6	0.00	e6.6	8.5	e130	167
19	e35	14	12	7.2	25	14	2.3	0.00	e14	16	e118	149
20	34	14	12	7.0	24	13	2.0	0.00	e15	e97	e104	130
21	32	13	11	7.4	23	13	1.8	0.00	15	e97	e98	121
22	31	12	11	7.7	19	12	1.6	0.00	16	e84	e87	116
23	30	12	11	7.7	18	11	1.4	0.00	17	e58	e74	108
24	28	11	10	7.7	20	9.7	1.2	0.00	17	e45	e70	94
25	27	11	9.5	7.6	e78	9.1	0.96	0.00	17	e37	e66	83
26	26	10	9.0	7.5	e88	8.5	0.78	0.00	14	e26	e54	165
27	25	9.8	8.7	25	e89	7.9	0.62	0.00	12	e21	e50	520
28	23	9.5	8.3	21	e77	7.3	0.56	0.00	10	e29	e49	617
29	24	8.8	8.1	22	e58	6.7	0.40	0.00	10	e35	e57	561
30	23	8.4	7.7	27	---	6.2	0.31	0.00	9.5	e38	e53	420
31	22	---	7.5	e30	---	5.8	---	0.00	---	e45	e48	---
TOTAL	1,011	446.5	263.8	293.2	978	625.2	78.83	2.12	186.77	835.1	3,125	9,101
MEAN	32.6	14.9	8.51	9.46	33.7	20.2	2.63	0.07	6.23	26.9	101	303
MAX	49	25	12	30	89	53	5.3	0.41	17	97	201	880
MIN	22	8.4	5.8	5.0	18	5.8	0.31	0.00	0.00	5.9	48	33
AC-FT	2,010	886	523	582	1,940	1,240	156	4.2	370	1,660	6,200	18,050
CFSM	0.58	0.27	0.15	0.17	0.60	0.36	0.05	0.00	0.11	0.48	1.80	5.42
IN.	0.67	0.30	0.18	0.19	0.65	0.42	0.05	0.00	0.12	0.55	2.08	6.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	19.2	7.58	13.0	15.6	23.1	23.8	11.2	3.78	9.41	18.0	34.6	49.9
MAX	105	43.7	191	91.2	216	154	99.0	44.6	87.7	132	229	303
(WY)	(1983)	(1989)	(1998)	(1998)	(1998)	(1998)	(1987)	(1979)	(1982)	(1974)	(1965)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1991)	(1979)	(1979)	(1981)	(1985)	(1981)	(1981)	(1968)	(1977)	(1973)	(1990)	(1992)

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	17,728.30		16,946.52			
ANNUAL MEAN	48.6		46.3		19.2	
HIGHEST ANNUAL MEAN					62.8	1998
LOWEST ANNUAL MEAN					0.11	1992
HIGHEST DAILY MEAN	243	Sep 9	880	Sep 7	996	Mar 31, 1987
LOWEST DAILY MEAN	0.24	Jun 3	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.81	May 29	0.00	May 13	0.00	May 9, 1967
MAXIMUM PEAK FLOW			923	Sep 7	1,100	Mar 31, 1987
MAXIMUM PEAK STAGE			75.89	Sep 7	76.05	Mar 31, 1987
ANNUAL RUNOFF (AC-FT)	35,160		33,610		13,880	
ANNUAL RUNOFF (CFSM)	0.867		0.827		0.342	
ANNUAL RUNOFF (INCHES)	11.78		11.26		4.65	
10 PERCENT EXCEEDS	142		110		51	
50 PERCENT EXCEEDS	27		15		3.7	
90 PERCENT EXCEEDS	6.1		0.08		0.00	

e Estimated

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72.24	71.60	70.87	70.81	---	---	70.56	69.92	69.20	70.90	---	---
2	72.19	71.53	70.85	70.79	---	---	70.52	69.89	69.19	70.93	72.29	---
3	72.12	71.47	70.83	70.77	---	72.14	70.49	69.95	69.19	71.37	72.25	---
4	72.04	---	70.81	70.77	---	72.07	70.45	70.01	69.18	71.40	---	---
5	71.97	---	70.79	70.74	---	71.99	70.41	69.97	69.18	71.41	---	---
6	71.89	---	70.75	70.71	---	71.92	70.37	69.92	69.18	71.43	---	---
7	71.85	---	70.72	70.68	---	71.85	70.35	69.87	69.18	71.43	---	75.80
8	71.89	---	70.71	70.67	---	71.76	70.33	69.81	69.17	71.19	---	75.72
9	71.94	---	70.70	70.69	---	71.68	70.29	69.76	69.17	70.82	---	75.30
10	72.01	---	70.70	70.69	---	71.63	70.25	69.73	69.25	70.67	---	74.99
11	72.05	---	70.68	70.64	---	71.56	70.23	69.70	69.27	70.61	---	74.66
12	72.11	---	70.67	70.63	---	71.50	70.62	69.68	69.26	70.56	---	74.47
13	72.22	---	70.67	70.62	---	71.42	70.62	69.65	69.35	70.54	---	74.32
14	72.40	---	70.99	70.61	71.38	71.34	70.52	69.62	---	70.50	---	74.16
15	72.45	---	70.97	70.60	71.60	71.28	70.48	69.59	---	70.45	---	74.00
16	72.41	---	71.01	70.59	71.56	71.37	70.45	69.57	---	70.42	---	73.90
17	72.31	---	71.11	70.58	71.62	71.28	70.41	69.54	---	70.44	---	73.80
18	72.21	71.33	71.16	70.79	71.63	71.21	70.37	69.48	---	70.64	---	73.65
19	---	71.34	71.17	70.80	71.61	71.17	70.32	69.43	---	71.14	---	73.53
20	72.09	71.28	71.16	70.78	71.58	71.12	70.29	69.38	---	---	---	73.41
21	72.05	71.23	71.12	70.82	71.50	71.08	70.25	69.34	71.24	---	---	73.35
22	72.02	71.20	71.10	70.85	71.30	71.02	70.22	69.29	71.31	---	---	73.33
23	71.98	71.18	71.07	70.85	71.24	70.95	70.19	69.25	71.37	---	---	73.26
24	71.92	71.14	71.04	70.85	71.34	70.90	70.14	69.22	71.35	---	---	73.15
25	71.88	71.09	71.00	70.84	---	70.85	70.10	69.22	71.34	---	---	73.05
26	71.84	71.05	70.95	70.83	---	70.82	70.06	69.21	71.15	---	---	73.59
27	71.79	71.02	70.93	71.62	---	70.77	70.02	69.21	71.02	---	---	75.05
28	71.72	70.99	70.90	71.42	---	70.73	70.01	69.20	70.93	---	---	75.31
29	71.76	70.94	70.88	71.47	---	70.68	69.96	69.20	70.91	---	---	75.17
30	71.72	70.90	70.85	71.70	---	70.64	69.93	69.20	70.87	---	---	74.79
31	71.69	---	70.82	---	---	70.61	---	69.20	---	---	---	---
MEAN	---	---	70.90	---	---	---	70.31	69.55	---	---	---	---
MAX	---	---	71.17	---	---	---	70.62	70.01	---	---	---	---
MIN	---	---	70.67	---	---	---	69.93	69.20	---	---	---	---

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL.

LOCATION.--Lat 28° 11'08", long 82° 24'03" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.27, T.26 S., R.19 E., Pasco County, Hydrologic Unit 03100205, near center span on upstream side of westbound bridge on State Highway 54, 0.2 mi southwest of Worthington Gardens, 4.4 mi northeast of Lutz, and 14 mi upstream from mouth.

DRAINAGE AREA.--117 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1964 to October 1971 (annual maximum); November 1971 to May 1974 (gage heights and periodic discharge measurements only); June 1974 to current year.

REVISED RECORDS.--WRD FL 1974: 1964-65 (M), 1967 (M), 1970 (M).

GAGE.--Water-stage recorder. Datum of gage is 40.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1972, nonrecording gage 1,000 ft upstream at datum 40.00 ft lower; Oct. 1, 1972, to Aug. 25, 1977, at site 30 ft upstream at present datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	170	44	27	15	77	242	13	1.8	0.10	78	116	177
2	162	43	25	14	81	230	10	1.5	0.09	84	113	172
3	154	41	23	14	83	215	8.3	1.4	0.08	101	e119	162
4	145	39	21	13	85	197	6.7	1.8	0.07	108	e134	151
5	136	41	20	13	85	179	5.2	2.0	0.07	132	e173	154
6	127	50	18	12	82	159	4.0	1.7	0.08	142	e227	346
7	122	51	16	11	77	142	3.1	1.2	0.07	134	289	600
8	132	53	15	10	72	126	2.5	0.90	0.07	113	e395	976
9	127	56	14	9.7	69	112	2.1	0.71	0.09	92	e500	1,520
10	119	57	13	12	65	102	1.7	0.59	0.06	73	557	1,770
11	113	56	12	12	61	93	1.5	0.52	0.05	57	567	1,760
12	109	55	11	12	58	86	12	0.47	0.07	45	560	1,620
13	106	54	10	12	56	80	43	0.42	0.10	38	537	1,440
14	102	53	12	11	56	74	51	0.37	0.31	33	513	1,270
15	98	52	16	11	60	70	49	0.33	0.60	28	514	1,110
16	92	51	18	10	63	71	45	0.30	2.7	23	524	970
17	87	51	22	9.5	66	72	40	0.28	2.7	21	525	848
18	83	50	24	14	69	72	34	0.27	1.7	27	508	740
19	79	50	26	23	69	70	28	0.26	6.5	84	479	645
20	75	50	26	28	67	68	22	0.24	16	165	443	564
21	69	50	25	29	65	64	17	0.23	21	237	408	516
22	65	49	24	31	61	60	13	0.23	28	278	371	472
23	61	47	23	32	58	55	9.9	0.22	36	282	333	435
24	58	45	22	32	59	49	7.9	0.20	39	262	303	399
25	56	43	21	31	106	44	6.3	0.19	42	231	e276	363
26	54	41	19	29	157	38	5.0	0.17	43	195	249	376
27	52	39	18	43	208	33	3.9	0.15	42	161	224	472
28	50	36	17	59	239	28	3.2	0.14	47	138	205	600
29	e48	33	17	65	247	23	2.6	0.13	e60	132	195	780
30	e46	30	16	69	---	19	2.2	0.13	73	127	188	918
31	46	---	15	72	---	16	---	0.11	---	120	182	---
TOTAL	2,943	1,410	586	758.2	2,601	2,889	453.1	18.96	462.51	3,741	10,727	22,326
MEAN	94.9	47.0	18.9	24.5	89.7	93.2	15.1	0.61	15.4	121	346	744
MAX	170	57	27	72	247	242	51	2.0	73	282	567	1,770
MIN	46	30	10	9.5	56	16	1.5	0.11	0.05	21	113	151
CFSM	0.81	0.40	0.16	0.21	0.77	0.80	0.13	0.01	0.13	1.03	2.96	6.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

MEAN	48.0	14.9	32.8	43.9	58.8	68.1	35.4	15.1	20.2	40.3	83.9	125
MAX	254	98.3	404	384	662	613	416	217	240	227	487	744
(WY)	(1983)	(1989)	(1998)	(1998)	(1998)	(1998)	(1987)	(1979)	(1982)	(2003)	(2003)	(2004)
MIN	0.00	0.00	0.00	0.06	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.03
(WY)	(1994)	(1994)	(1994)	(2001)	(2001)	(2001)	(1975)	(1975)	(2000)	(1988)	(1993)	(1993)

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	56,032.75		48,915.77			
ANNUAL MEAN	154		134		48.8	
HIGHEST ANNUAL MEAN					204	1998
LOWEST ANNUAL MEAN					2.58	1992
HIGHEST DAILY MEAN	641	Aug 13	1,770	Sep 10	1,770	Sep 10, 2004
LOWEST DAILY MEAN	0.49	Jun 4	0.05	Jun 11	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.85	Jun 1	0.07	Jun 5	0.00	Apr 1, 1975
MAXIMUM PEAK FLOW			1,800	Sep 11	1,800	Sep 11, 2004
MAXIMUM PEAK STAGE			13.78	Sep 11	13.78	Sep 11, 2004
ANNUAL RUNOFF (CFSM)	1.31		1.14		0.417	
10 PERCENT EXCEEDS	425		382		134	
50 PERCENT EXCEEDS	100		50		6.3	
90 PERCENT EXCEEDS	15		0.60		0.00	

e Estimated

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.88	5.09	4.62	4.08	5.81	7.63	3.63	2.54	2.02	5.30	6.12	6.89
2	6.81	5.07	4.53	4.05	5.88	7.53	3.48	2.49	2.01	5.41	6.09	6.84
3	6.72	5.03	4.45	4.02	5.92	7.39	3.35	2.48	2.00	5.73	---	6.73
4	6.62	4.99	4.37	4.00	5.95	7.22	3.24	2.55	1.99	5.85	---	6.59
5	6.53	5.06	4.30	3.97	5.93	7.04	3.11	2.57	1.99	6.21	---	6.63
6	6.42	5.29	4.24	3.94	5.86	6.82	2.99	2.52	2.00	6.34	---	8.30
7	6.36	5.33	4.16	3.88	5.77	6.62	2.90	2.44	1.99	6.24	7.92	9.84
8	6.50	5.39	4.08	3.82	5.66	6.42	2.82	2.36	1.99	5.95	---	11.39
9	6.45	5.45	4.03	3.79	5.57	6.22	2.76	2.30	2.01	5.58	---	13.06
10	6.35	5.48	3.98	3.91	5.47	6.05	2.70	2.26	1.99	5.21	9.64	13.72
11	6.27	5.46	3.92	3.95	5.38	5.89	2.65	2.23	1.97	4.87	9.69	13.69
12	6.22	5.43	3.84	3.94	5.31	5.76	3.45	2.21	1.99	4.57	9.65	13.34
13	6.18	5.40	3.81	3.91	5.25	5.64	4.64	2.19	2.02	4.37	9.53	12.86
14	6.13	5.37	3.92	3.88	5.22	5.53	4.83	2.17	2.13	4.24	9.40	12.36
15	6.05	5.35	4.13	3.85	5.31	5.43	4.76	2.15	2.22	4.07	9.40	11.86
16	5.96	5.34	4.25	3.81	5.38	5.45	4.65	2.14	2.62	3.88	9.46	11.39
17	5.88	5.32	4.41	3.78	5.44	5.48	4.52	2.13	2.61	3.79	9.47	10.93
18	5.82	5.29	4.49	4.01	5.49	5.47	4.34	2.12	2.45	4.04	9.37	10.51
19	5.75	5.30	4.55	4.44	5.49	5.43	4.13	2.12	2.92	5.46	9.20	10.10
20	5.67	5.31	4.56	4.60	5.45	5.38	3.90	2.11	3.54	6.69	8.99	9.72
21	5.57	5.30	4.53	4.66	5.38	5.31	3.66	2.10	3.73	7.43	8.77	9.47
22	5.48	5.27	4.50	4.71	5.29	5.21	3.46	2.10	3.98	7.78	8.53	9.24
23	5.41	5.23	4.46	4.74	5.21	5.08	3.29	2.09	4.28	7.82	8.26	9.03
24	5.36	5.18	4.42	4.72	5.21	4.94	3.16	2.09	4.34	7.66	8.03	8.82
25	5.32	5.12	4.36	4.67	6.14	4.79	3.04	2.08	4.44	7.38	---	8.59
26	5.27	5.05	4.30	4.60	6.82	4.63	2.92	2.07	4.47	7.03	7.59	8.68
27	5.24	4.98	4.25	5.03	7.33	4.47	2.81	2.06	4.46	6.66	7.36	9.26
28	5.19	4.91	4.21	5.45	7.61	4.29	2.74	2.05	4.58	6.41	7.18	9.92
29	---	4.81	4.18	5.57	7.67	4.11	2.66	2.04	---	6.33	7.08	10.68
30	---	4.71	4.15	5.64	---	3.94	2.60	2.04	5.20	6.27	7.00	11.20
31	5.12	---	4.12	5.71	---	3.79	---	2.03	---	6.19	6.94	---
MEAN	---	5.21	4.26	4.36	5.80	5.64	3.44	2.22	---	5.83	---	10.05
MAX	---	5.48	4.62	5.71	7.67	7.63	4.83	2.57	---	7.82	---	13.72
MIN	---	4.71	3.81	3.78	5.21	3.79	2.60	2.03	---	3.79	---	6.59



02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)
NOV 24...	0708	5.19	45	--	1.6	7.1	176	18.6	1.1	--	.03	--	<.020
JAN 13...	1032	3.91	12	--	4.4	7.3	198	10.9	1.3	--	.02	--	.020
JUN 30...	0918	5.15	71	--	3.3	6.8	247	24.4	1.3	--	.03	--	<.020
AUG 04...	0910	6.86	174	--	3.8	7.0	140	25.8	--	E.03	--	E.06	--
AUG 25...	1110	7.84	279	--	1.3	6.8	126	25.7	--	E.03	--	<.06	--
SEP 08...	1030	11.25	932	761	.3	6.5	102	25.5	--	<.04	--	<.06	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)
NOV 24...	--	<.01	--	.080	.08	--
JAN 13...	--	<.01	--	.030	.04	--
JUN 30...	--	<.01	--	.040	.06	--
AUG 04...	<.008	--	.07	--	.10	1.27
AUG 25...	E.006	--	.17	--	.24	1.28
SEP 08...	<.008	--	.13	--	.19	.93

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°05'20", long 82°24'33" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.33, T.27 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, near center of span on downstream side of bridge on State Highway 581, 1.2 mi downstream from Thirteen Mile Run, 2.5 mi upstream from mouth, and 5.0 mi northeast of Sulphur Springs.

DRAINAGE AREA.--160 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1956 to January 1964 (miscellaneous discharge measurements only); February 1964 to current year.

REVISED RECORDS.--WDR FL-80-3: 1979.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Nov. 3, 1967, to Mar. 13, 1978, nonrecording gage at same site and datum.

REMARKS.--Records good.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	242	59	52	36	144	276	36	5.7	0.00	62	230	252
2	234	57	50	36	148	276	32	4.9	0.00	69	231	230
3	224	56	48	35	148	274	27	5.3	0.00	68	231	216
4	212	54	46	35	145	271	23	5.4	0.00	75	233	203
5	200	55	44	34	142	267	19	4.0	0.00	98	236	221
6	191	67	42	34	140	259	16	2.8	0.00	99	238	606
7	180	109	40	32	138	248	14	2.0	0.00	97	259	1,050
8	175	134	39	30	133	234	12	1.4	0.00	100	327	1,140
9	177	135	37	31	128	218	11	1.0	0.00	104	521	1,130
10	173	123	35	37	123	204	9.2	0.72	3.3	107	724	1,210
11	170	111	33	37	119	188	8.2	0.58	13	102	781	1,400
12	166	101	32	38	113	172	24	0.48	11	96	739	1,650
13	164	92	32	38	108	157	42	0.28	11	102	662	1,790
14	165	84	37	36	105	143	49	0.12	16	92	650	1,780
15	161	78	43	34	109	132	50	0.02	22	79	691	1,670
16	151	73	43	33	106	132	48	0.00	26	68	649	1,510
17	144	70	43	32	104	128	47	0.00	23	60	593	1,330
18	136	67	41	41	99	117	46	0.00	17	95	556	1,170
19	127	69	40	57	95	107	44	0.00	14	219	527	1,010
20	118	71	39	64	93	98	42	0.00	14	370	500	873
21	110	70	38	64	94	90	38	0.00	8.5	436	481	785
22	101	68	39	62	95	83	35	0.00	8.2	403	459	694
23	92	67	40	60	94	77	31	0.00	5.4	365	426	612
24	84	65	40	58	105	72	26	0.00	6.0	332	440	545
25	78	64	40	57	236	67	21	0.00	19	305	524	495
26	72	62	40	56	285	62	17	0.00	14	301	526	552
27	70	61	40	76	290	58	13	0.00	17	299	442	743
28	67	59	39	105	285	54	11	0.00	24	282	370	810
29	66	57	38	122	279	50	8.3	0.00	32	287	316	789
30	63	54	37	123	---	45	6.6	0.00	46	279	285	760
31	61	---	37	129	---	41	---	0.00	---	250	269	---
TOTAL	4,374	2,292	1,244	1,662	4,203	4,600	806.3	34.70	350.40	5,701	14,116	27,226
MEAN	141	76.4	40.1	53.6	145	148	26.9	1.12	11.7	184	455	908
MAX	242	135	52	129	290	276	50	5.7	46	436	781	1,790
MIN	61	54	32	30	93	41	6.6	0.00	0.00	60	230	203
AC-FT	8,680	4,550	2,470	3,300	8,340	9,120	1,600	69	695	11,310	28,000	54,000
CFSM	0.88	0.48	0.25	0.34	0.91	0.93	0.17	0.01	0.07	1.15	2.85	5.67
IN.	1.02	0.53	0.29	0.39	0.98	1.07	0.19	0.01	0.08	1.33	3.28	6.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2004, BY WATER YEAR (WY)

MEAN	93.4	26.7	52.0	70.5	93.3	105	54.4	16.8	35.8	82.6	165	204
MAX	489	138	612	546	818	804	550	309	311	592	1,040	908
(WY)	(1983)	(1998)	(1998)	(1998)	(1998)	(1998)	(1987)	(1979)	(1981)	(1974)	(1965)	(2004)
MIN	0.08	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	1.90
(WY)	(1973)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(1967)	(1973)	(1973)	(1977)	(1993)

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1965 - 2004	
ANNUAL TOTAL	76,088.52		66,609.40			
ANNUAL MEAN	208		182		83.2	
HIGHEST ANNUAL MEAN					294	1998
LOWEST ANNUAL MEAN					6.50	1992
HIGHEST DAILY MEAN	810	Aug 19	1,790	Sep 13	1,790	Sep 13, 2004
LOWEST DAILY MEAN	0.10	Jun 4	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.16	Jun 2	0.00	May 16	0.00	May 9, 1965
MAXIMUM PEAK FLOW			1,820	Sep 13	2,060	Aug 1, 1960
MAXIMUM PEAK STAGE			31.36	Sep 13	34.13	Aug 1, 1960
ANNUAL RUNOFF (AC-FT)	150,900		132,100		60,290	
ANNUAL RUNOFF (CFSM)	1.30		1.14		0.520	
ANNUAL RUNOFF (INCHES)	17.69		15.49		7.07	
10 PERCENT EXCEEDS	512		522		237	
50 PERCENT EXCEEDS	140		70		18	
90 PERCENT EXCEEDS	32		3.8		0.00	

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.72	27.61	27.46	27.00	28.29	28.77	26.95	25.74	24.38	27.81	28.76	28.88
2	28.69	27.57	27.41	26.99	28.31	28.77	26.80	25.68	24.34	27.90	28.76	28.80
3	28.65	27.53	27.35	26.98	28.30	28.77	26.65	25.71	24.33	27.87	28.76	28.74
4	28.60	27.50	27.29	26.96	28.28	28.77	26.50	25.73	24.35	27.95	28.77	28.68
5	28.56	27.51	27.25	26.95	28.26	28.75	26.35	25.62	24.34	28.16	28.78	28.80
6	28.52	27.73	27.20	26.93	28.24	28.72	26.22	25.51	24.32	28.16	28.79	29.83
7	28.47	28.12	27.14	26.89	28.22	28.68	26.13	25.41	24.29	28.14	28.87	30.56
8	28.45	28.29	27.09	26.83	28.19	28.63	26.04	25.34	24.32	28.17	29.09	30.68
9	28.46	28.30	27.03	26.83	28.15	28.57	25.95	25.27	24.52	28.20	29.57	30.67
10	28.45	28.23	26.98	27.03	28.12	28.51	25.87	25.21	25.03	28.22	29.94	30.77
11	28.43	28.15	26.93	27.05	28.08	28.44	25.82	25.18	26.23	28.19	30.04	30.98
12	28.41	28.07	26.89	27.07	28.03	28.37	26.55	25.16	26.16	28.14	29.97	31.22
13	28.41	28.01	26.87	27.06	27.99	28.29	27.18	25.10	26.16	28.18	29.85	31.34
14	28.41	27.94	27.02	27.02	27.96	28.21	27.36	25.03	26.39	28.11	29.83	31.33
15	28.39	27.88	27.21	26.96	27.99	28.14	27.39	24.95	26.65	27.98	29.90	31.24
16	28.35	27.82	27.21	26.91	27.96	28.15	27.35	24.89	26.82	27.86	29.83	31.08
17	28.31	27.78	27.21	26.88	27.94	28.13	27.33	24.84	26.71	27.75	29.73	30.90
18	28.26	27.76	27.17	27.16	27.90	28.06	27.30	24.82	26.47	28.04	29.65	30.71
19	28.21	27.77	27.13	27.56	27.86	27.99	27.26	24.79	26.32	28.75	29.61	30.52
20	28.15	27.80	27.09	27.71	27.84	27.93	27.20	24.76	26.32	29.21	29.55	30.32
21	28.10	27.78	27.08	27.70	27.84	27.88	27.10	24.74	26.04	29.38	29.51	30.19
22	28.04	27.76	27.09	27.66	27.84	27.82	27.00	24.71	26.03	29.30	29.46	30.03
23	27.98	27.75	27.12	27.62	27.84	27.76	26.86	24.68	25.83	29.20	29.38	29.88
24	27.91	27.73	27.13	27.58	27.90	27.71	26.71	24.65	25.81	29.11	29.42	29.75
25	27.84	27.71	27.13	27.54	28.61	27.65	26.53	24.62	26.57	29.03	29.60	29.64
26	27.78	27.69	27.12	27.52	28.81	27.59	26.35	24.60	26.31	29.01	29.60	29.76
27	27.74	27.67	27.12	27.79	28.83	27.51	26.18	24.56	26.48	29.01	29.42	30.12
28	27.71	27.64	27.10	28.06	28.81	27.42	26.05	24.53	26.77	28.95	29.24	30.23
29	27.71	27.58	27.08	28.17	28.78	27.32	25.91	24.50	27.02	28.97	29.09	30.20
30	27.68	27.52	27.05	28.18	---	27.20	25.80	24.46	27.43	28.94	28.99	30.15
31	27.64	---	27.03	28.21	---	27.08	---	24.42	---	28.83	28.94	---
MEAN	28.23	27.81	27.13	27.32	28.18	28.12	26.62	25.01	25.76	28.47	29.38	30.20
MAX	28.72	28.30	27.46	28.21	28.83	28.77	27.39	25.74	27.43	29.38	30.04	31.34
MIN	27.64	27.50	26.87	26.83	27.84	27.08	25.80	24.42	24.29	27.75	28.76	28.68

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1966 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Chloride, water, fltrd, mg/L (00940)
NOV 24...	1129	27.72	65	--	--	1.5	7.2	195	19.0	--	--	--	--
JAN 13...	1232	27.06	38	100	--	4.4	7.3	205	12.5	31.0	2.50	2.60	15.0
JUN 30...	0756	27.39	44	--	--	2.5	6.9	386	24.0	--	--	--	--
AUG 04...	0730	28.75	229	250	--	2.8	7.0	179	26.0	27.1	2.06	2.68	12.7
25...	0830	29.59	519	150	--	3.0	7.1	128	25.3	19.5	1.68	2.58	7.90
SEP 08...	0817	30.69	1,150	150	760	1.1	6.5	113	25.6	17.0	1.59	2.39	7.06

Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC, mg/L (70300)	Ammonia + org-N, water, unfltrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd, mg/L as N (00610)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite + nitrate water, unfltrd, mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd, mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd, mg/L as P (70507)
NOV 24...	--	--	--	--	1.1	--	.03	--	<.020	--	<.01	--	.070
JAN 13...	.1	2.10	3.30	145	1.0	--	.02	--	<.020	--	<.01	--	.020
JUN 30...	--	--	--	--	1.1	--	.03	--	<.020	--	<.01	--	.020
AUG 04...	<.2	5.87	3.4	159	--	E.04	--	E.05	--	E.004	--	.05	--
25...	<.2	4.72	2.2	118	--	E.03	--	<.06	--	<.008	--	.10	--
SEP 08...	<.2	4.26	1.9	104	--	<.04	--	<.06	--	<.008	--	.09	--

Date	Phosphorus, water, unfltrd, mg/L (00665)	Total nitrogen, water, unfiltered, by analysis, mg/L (62855)	Strontium, water, fltrd, ug/L (01080)
NOV 24...	.07	--	--
JAN 13...	.03	--	50.0
JUN 30...	.05	--	--
AUG 04...	.10	1.23	47.7
25...	.15	1.12	34.4
SEP 08...	.14	.81	32.6

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

## 02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL.

LOCATION.--Lat 28°01'25", long 82°25'40" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.29, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, on left bank at upstream side of control structure for Tampa Reservoir, at 30th Street, 5.4 mi northeast of Tampa, and 10 mi upstream from mouth.

DRAINAGE AREA.--650 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (city of Tampa bench mark). Prior to Oct. 1, 1945, at site 2.1 mi upstream at datum 0.66 ft higher.

REMARKS.--Records poor. Flow regulated at station since Oct. 1, 1945, by manipulation of radial gates in spillways and dam by city of Tampa Water Department. Some augmentation at times by pumping from Sulphur Springs at Sulphur Springs into reservoir. Diversion from reservoir 1.3 mi upstream from station by city of Tampa for water supply. Diversion at times since May 1979 from basin into Tampa Bypass Canal during high flow. WDR 1992 through WDR 2002 period of record gage height at present datum. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

COOPERATION.--Records of gate operation and diversions furnished by city of Tampa water department.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 25.6 ft, Sept. 7, 1933, at former site and datum, from floodmarks, affected by backwater prior to failure of Tampa power dam, 2.1 mi below former gage. A discharge of 16,500 ft<sup>3</sup>/s, was measured Sept. 9, 1933.

REVISED RECORDS.--WRD FL-98-3A: Daily discharge. Rainfall data for the 2002 water year for the months of July-September is in error. Corrected data are available in files of the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	37	13	3.8	253	974	8.4	0.00	12	19	828	1,240
2	346	37	12	4.5	250	1,070	8.0	0.00	11	20	767	1,210
3	342	37	11	3.2	193	877	5.7	0.00	11	20	708	1,180
4	340	37	12	1.3	296	779	1.5	0.00	8.3	20	768	1,500
5	287	37	11	0.10	460	733	0.03	0.00	0.00	21	789	1,260
6	256	38	10	0.00	455	588	0.00	0.00	0.00	21	912	1,600
7	184	36	9.3	0.00	326	410	0.00	0.00	0.00	21	1,600	1,370
8	155	39	10	0.00	193	267	0.00	0.00	0.00	21	1,430	978
9	201	42	10	0.01	175	236	0.00	0.00	0.00	24	1,490	616
10	215	42	10	0.03	100	192	0.00	0.00	0.00	30	2,140	430
11	211	36	5.5	0.02	96	176	0.00	0.00	0.00	30	2,220	332
12	209	37	0.00	0.02	101	174	0.00	0.00	0.00	31	1,530	248
13	206	37	0.00	0.00	106	170	1.5	0.00	0.00	83	197	305
14	203	37	0.00	0.00	159	117	11	0.00	0.00	141	1,040	1,530
15	225	36	0.00	0.01	171	86	44	0.00	0.00	122	1,910	2,210
16	51	36	0.04	0.03	36	316	78	0.00	0.00	108	1,980	868
17	52	31	1.7	0.01	35	89	74	0.00	2.1	107	2,090	866
18	53	20	8.3	52	48	167	70	0.00	36	206	1,940	720
19	52	21	15	82	59	176	61	0.00	91	597	2,050	487
20	50	21	19	84	62	177	21	0.00	105	1,020	2,110	559
21	51	23	19	84	60	174	8.4	0.00	144	923	1,970	843
22	51	22	19	84	55	115	8.0	0.00	117	1,310	1,970	908
23	51	20	16	87	52	92	7.4	0.01	244	1,350	2,440	898
24	52	21	13	89	292	99	3.2	3.7	246	1,490	2,210	762
25	53	21	17	88	480	97	0.38	11	280	1,410	2,170	805
26	53	19	16	99	391	94	0.01	10	170	1,420	2,330	783
27	52	9.4	13	255	623	88	0.00	11	242	1,280	1,890	722
28	52	9.5	10	144	824	61	0.00	11	19	1,130	1,850	1,190
29	52	11	7.8	169	834	42	0.00	12	20	897	1,640	1,050
30	52	11	5.2	194	---	23	0.00	12	19	775	1,370	655
31	42	---	2.7	303	---	7.8	---	12	---	892	1,250	---
TOTAL	4,524	860.9	296.54	1,827.03	7,185	8,666.8	411.52	82.71	1,777.40	15,539	49,589	28,125
MEAN	146	28.7	9.57	58.9	248	280	13.7	2.67	59.2	501	1,600	938
MAX	346	42	19	303	834	1,070	78	12	280	1,490	2,440	2,210
MIN	42	9.4	0.00	0.00	35	7.8	0.00	0.00	0.00	19	197	248
AC-FT	8,970	1,710	588	3,620	14,250	17,190	816	164	3,530	30,820	98,360	55,790
*PREC	---	0.88	1.38	4.43	---	1.38	2.22	1.89	9.88	10.31	12.76	10.31

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2004, BY WATER YEAR (WY)

MEAN	576	190	205	283	301	485	278	74.2	199	593	1,041	1,085
MAX	2,795	1,191	1,811	1,885	1,926	4,926	2,022	740	1,853	4,647	5,011	4,371
(WY)	(1954)	(1998)	(1998)	(1998)	(1998)	(1960)	(1959)	(1959)	(1959)	(1945)	(1945)	(1953)
MIN	0.17	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.20	17.4
(WY)	(1973)	(1992)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1985)	(1993)	(1993)	(1999)

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1939 - 2004	
ANNUAL TOTAL	214,288.79		118,884.90			
ANNUAL MEAN	587		325		444	
HIGHEST ANNUAL MEAN					1,718	1960
LOWEST ANNUAL MEAN					12.3	2000
HIGHEST DAILY MEAN	2,640	Jun 24	2,440	Aug 23	13,500	Mar 21, 1960
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	1.0	Dec 11	0.00	Apr 6	0.00	Jan 1, 1985
MAXIMUM PEAK FLOW					14,600	Mar 21, 1960
MAXIMUM PEAK STAGE					23.07	Sep 26, 1997
ANNUAL RUNOFF (AC-FT)	425,000		235,800		321,300	
10 PERCENT EXCEEDS	1,730		1,220		1,290	
50 PERCENT EXCEEDS	219		52		138	
90 PERCENT EXCEEDS	12		0.00		0.20	

\* Precipitation, total, inches

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22.71	22.41	22.20	22.53	22.52	22.60	22.57	22.23	20.69	21.83	21.62	21.55
2	22.66	22.40	22.17	22.53	22.48	22.41	22.57	22.12	20.46	21.80	21.57	21.33
3	22.64	22.39	22.17	22.52	22.50	22.48	22.54	22.12	20.23	21.88	21.48	20.95
4	22.63	22.37	22.19	22.49	22.57	22.47	22.49	22.19	20.09	21.93	21.61	19.89
5	22.60	22.37	22.20	22.45	22.63	22.43	22.44	22.19	20.07	22.06	21.57	18.93
6	22.60	22.42	22.18	22.42	22.60	22.30	22.38	22.22	20.04	22.16	21.72	20.08
7	22.59	22.55	22.17	22.39	22.46	22.31	22.30	22.28	19.99	22.13	21.62	19.99
8	22.67	22.58	22.13	22.37	22.45	22.46	22.24	22.34	20.00	22.08	21.35	19.60
9	22.66	22.60	22.09	22.38	22.43	22.58	22.19	22.38	20.19	21.99	21.36	19.33
10	22.63	22.62	22.05	22.45	22.46	22.59	22.12	22.41	20.64	21.84	21.35	19.39
11	22.60	22.56	22.03	22.45	22.53	22.62	22.04	22.43	21.05	21.73	21.13	19.09
12	22.59	22.47	22.03	22.44	22.57	22.61	22.29	22.43	21.32	21.63	20.32	18.92
13	22.57	22.39	22.01	22.43	22.61	22.57	22.49	22.40	21.53	21.80	19.54	19.02
14	22.54	22.36	22.18	22.43	22.61	22.51	22.59	22.36	21.93	21.60	21.17	19.83
15	22.31	22.26	22.36	22.44	22.46	22.58	22.66	22.27	22.13	21.50	21.32	20.22
16	22.23	22.15	22.43	22.45	22.52	22.55	22.66	22.18	22.33	21.47	21.35	20.36
17	22.17	22.11	22.50	22.43	22.61	22.61	22.64	22.13	22.49	21.68	21.23	20.31
18	22.16	22.12	22.57	22.60	22.66	22.65	22.60	22.06	22.59	21.90	21.12	20.04
19	22.02	22.16	22.62	22.66	22.68	22.64	22.56	21.93	22.58	22.09	21.44	20.21
20	21.93	22.26	22.64	22.67	22.69	22.65	22.56	21.80	22.57	21.95	21.38	20.30
21	21.98	22.30	22.64	22.67	22.67	22.63	22.57	21.70	22.56	21.72	21.26	20.61
22	22.01	22.32	22.64	22.68	22.65	22.63	22.57	21.68	22.51	21.73	21.39	20.67
23	22.06	22.32	22.62	22.69	22.63	22.69	22.56	21.63	22.47	21.63	21.31	20.60
24	22.14	22.29	22.60	22.70	22.57	22.70	22.52	21.56	22.20	21.80	21.12	20.59
25	22.23	22.28	22.63	22.69	22.54	22.69	22.46	21.47	22.12	21.51	21.19	20.38
26	22.26	22.27	22.62	22.67	22.59	22.68	22.39	21.37	22.10	21.58	21.08	19.79
27	22.27	22.30	22.60	22.63	22.59	22.64	22.32	21.28	22.03	21.46	21.01	20.30
28	22.27	22.32	22.58	22.63	22.52	22.59	22.25	21.19	21.99	21.35	21.21	20.43
29	22.35	22.30	22.56	22.63	22.56	22.59	22.17	21.08	22.00	21.37	21.05	19.69
30	22.38	22.25	22.54	22.58	---	22.57	22.13	20.96	21.92	21.89	21.17	19.62
31	22.40	---	22.51	22.52	---	22.56	---	20.83	---	21.73	21.37	---
MEAN	22.38	22.35	22.37	22.54	22.56	22.57	22.43	21.91	21.49	21.77	21.24	20.07
MAX	22.71	22.62	22.64	22.70	22.69	22.70	22.66	22.43	22.59	22.16	21.72	21.55
MIN	21.93	22.11	22.01	22.37	22.43	22.30	22.04	20.83	19.99	21.35	19.54	18.92

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL.

LOCATION.--Lat 28°01'15", long 82°26'05" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.30, T.28 S., R.19 E., Hillsborough County, Hydrologic Unit 03100205, near center of span on downstream side of bridge on Rowlett Park Drive, 0.5 mi downstream from control structure for Tampa Reservoir, 4.9 mi northeast of Tampa, and 9.5 mi upstream from mouth.

DRAINAGE AREA.--672 mi<sup>2</sup>, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 1996 to current year (gage heights only); July 2003 to current year (daily mean residual discharge).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Maximum and minimum extremes represent gage height extremes, not tidal high and low. The index-velocity to mean channel velocity relationship for negative and low flow need refinement. Days of computed negative flow are deleted.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily mean residual discharge, 2,470 ft<sup>3</sup>/s (estimated), Aug. 14, 2003; maximum gage height, 7.17 ft, Dec. 13, 2002; minimum daily mean residual discharge, not determined; minimum gage height, 2.29 ft below NGVD, Dec. 25, 2000, Jan. 10, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum daily mean residual discharge, 2,330 ft<sup>3</sup>/s, Aug. 23; maximum gage height, 5.44 ft, Aug. 23; minimum daily mean residual discharge, not determined; minimum gage height, 2.19 ft below NGVD, Jan. 11.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD JULY TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	e790	e1,850
2	---	---	---	---	---	---	---	---	---	---	e930	e1,620
3	---	---	---	---	---	---	---	---	---	e1,300	e850	e1,640
4	---	---	---	---	---	---	---	---	---	e1,360	e1,140	e1,520
5	---	---	---	---	---	---	---	---	---	e1,160	e1,230	e1,490
6	---	---	---	---	---	---	---	---	---	e1,100	e1,470	1,220
7	---	---	---	---	---	---	---	---	---	e1,390	e1,630	1,210
8	---	---	---	---	---	---	---	---	---	e1,550	e1,640	1,150
9	---	---	---	---	---	---	---	---	---	e1,460	e1,840	1,170
10	---	---	---	---	---	---	---	---	---	e1,280	e1,930	1,080
11	---	---	---	---	---	---	---	---	---	e1,130	e1,970	966
12	---	---	---	---	---	---	---	---	---	e1,140	e2,200	940
13	---	---	---	---	---	---	---	---	---	e1,510	e2,420	797
14	---	---	---	---	---	---	---	---	---	e1,290	e2,470	862
15	---	---	---	---	---	---	---	---	---	e1,460	e2,400	723
16	---	---	---	---	---	---	---	---	---	e1,680	e2,380	783
17	---	---	---	---	---	---	---	---	---	e1,920	e2,330	699
18	---	---	---	---	---	---	---	---	---	e2,020	e2,340	595
19	---	---	---	---	---	---	---	---	---	e1,900	e2,230	585
20	---	---	---	---	---	---	---	---	---	e1,740	e2,190	586
21	---	---	---	---	---	---	---	---	---	e1,640	e2,190	471
22	---	---	---	---	---	---	---	---	---	e1,500	e2,180	388
23	---	---	---	---	---	---	---	---	---	e1,450	e2,170	227
24	---	---	---	---	---	---	---	---	---	e1,140	e2,040	152
25	---	---	---	---	---	---	---	---	---	e1,120	e2,140	325
26	---	---	---	---	---	---	---	---	---	e990	e2,380	346
27	---	---	---	---	---	---	---	---	---	e780	e2,430	304
28	---	---	---	---	---	---	---	---	---	e630	e2,400	98
29	---	---	---	---	---	---	---	---	---	e590	e2,320	100
30	---	---	---	---	---	---	---	---	---	e590	e2,240	242
31	---	---	---	---	---	---	---	---	---	e590	e2,020	---
MEAN	---	---	---	---	---	---	---	---	---	---	1,964	805
MAX	---	---	---	---	---	---	---	---	---	---	2,470	1,850
MIN	---	---	---	---	---	---	---	---	---	---	790	98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2003, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	1,964	805
MAX	---	---	---	---	---	---	---	---	---	---	1,964	805
(WY)	---	---	---	---	---	---	---	---	---	---	(2003)	(2003)
MIN	---	---	---	---	---	---	---	---	---	---	1,964	805
(WY)	---	---	---	---	---	---	---	---	---	---	(2003)	(2003)

e Estimated

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL.—Continued

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	357	18	---	---	236	1,040	---	---	---	0.47	815	1,120
2	339	13	---	---	240	958	---	---	---	4.8	772	1,080
3	330	8.1	---	---	177	855	---	---	---	---	697	1,070
4	320	12	---	---	269	723	---	---	---	3.0	794	1,410
5	261	8.4	---	---	320	696	---	---	---	---	762	1,440
6	243	15	---	---	387	538	---	---	---	0.43	1,130	1,140
7	160	8.1	---	---	259	360	---	---	---	---	1,580	1,430
8	170	21	---	---	187	237	---	---	---	---	1,420	835
9	218	40	---	---	143	211	---	---	---	2.8	1,720	591
10	213	26	---	---	77	183	---	---	---	7.9	2,310	352
11	205	12	---	---	84	181	---	---	---	10	2,020	292
12	203	14	---	---	93	173	---	---	---	3.6	1,160	240
13	191	22	---	---	88	149	4.8	---	---	100	144	317
14	219	9.1	---	---	178	78	18	---	---	121	1,380	1,910
15	145	13	---	---	124	135	84	---	---	113	1,830	1,640
16	25	16	---	---	12	260	100	---	---	86	1,980	828
17	28	5.5	---	---	33	91	93	---	1.7	90	1,960	859
18	32	---	---	73	65	195	65	---	36	263	1,920	636
19	25	7.2	8.5	97	70	179	38	---	98	672	2,010	474
20	29	---	14	102	71	172	---	---	91	1,080	2,030	623
21	24	---	14	91	66	166	5.9	---	157	944	1,830	910
22	25	---	14	101	63	102	4.7	---	64	1,430	2,020	899
23	19	---	6.7	109	28	115	1.7	---	274	1,320	2,330	895
24	19	---	6.5	99	430	113	---	---	260	1,610	2,150	717
25	30	---	13	94	385	107	---	---	146	1,370	2,140	873
26	33	---	4.2	167	435	97	---	---	243	1,450	2,170	758
27	28	---	---	233	715	64	---	---	93	1,270	1,760	753
28	31	---	---	150	827	20	---	---	11	1,150	1,760	1,230
29	42	---	---	176	818	17	---	---	---	765	1,480	832
30	38	---	---	227	---	---	---	---	---	836	1,240	535
31	22	---	---	275	---	---	---	---	---	878	1,130	---
MEAN	130	---	---	---	237	---	---	---	---	---	1,563	890
MAX	357	---	---	---	827	---	---	---	---	---	2,330	1,910
MIN	19	---	---	---	12	---	---	---	---	---	144	240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	130	---	---	---	237	---	---	---	---	---	1,763	847
MAX	130	---	---	---	237	---	---	---	---	---	1,964	890
(WY)	(2004)	---	---	---	(2004)	---	---	---	---	---	(2003)	(2004)
MIN	130	---	---	---	237	---	---	---	---	---	1,563	805
(WY)	(2004)	---	---	---	(2004)	---	---	---	---	---	(2004)	(2003)

SUMMARY STATISTICS

WATER YEARS 2003 - 2004

HIGHEST DAILY MEAN	2,470	Aug 14, 2003
LOWEST DAILY MEAN	0.43	Unknown
ANNUAL SEVEN-DAY MINIMUM	10	Dec 20, 2003





## 02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1996 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface and 1.0 ft above the bottom.

REMARKS.--Specific conductance and temperature record are rated good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 28,300 microsiemens, June 4, 5, 2000; bottom sensor maximum, 27,800 microsiemens, June 5, 2000; top sensor minimum, 82 microsiemens, Dec. 18, 1997; bottom sensor minimum, 87 microsiemens, Dec. 18, 1997.

TEMPERATURE.--Top sensor maximum, 33.5°C, June 18, 1998, Aug. 25, 2000; bottom sensor maximum, 33.4°C, July 10, 2004; top sensor minimum, 9.6°C, Jan. 5, 2001; bottom sensor minimum, 11.2°C, Jan. 6, 1999.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 10,600 microsiemens, Jan. 17; bottom sensor maximum, 10,400 microsiemens, Jan. 17, 18; top sensor minimum, 130 microsiemens, Sept. 15; bottom sensor minimum, 129 microsiemens, Sept. 15.

TEMPERATURE.--Top sensor maximum, 32.5°C, June 23; bottom sensor maximum, 33.4°C, July 10; top sensor minimum, 14.6°C, Jan. 24; bottom sensor minimum, 14.6°C, Jan. 24.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	MIN	NOVEMBER	MIN	DECEMBER	MIN	JANUARY	MIN	FEBRUARY	MIN	MARCH	MIN	MIN	MIN	MIN	
1	232	211	302	274	323	301	3,810	3,000	330	305	237	215				
2	236	217	304	273	327	302	5,100	3,060	329	305	226	210				
3	240	221	315	278	1,480	306	6,870	3,740	326	299	214	203				
4	238	221	325	278	6,360	336	7,970	5,430	318	294	212	204				
5	244	225	321	275	6,560	5,810	8,230	6,320	319	292	220	206				
6	251	232	329	274	6,600	4,030	8,380	6,110	310	284	221	209				
7	268	237	327	269	7,140	3,840	6,830	3,880	303	279	223	211				
8	262	238	349	288	7,480	5,850	8,550	4,160	304	282	226	213				
9	264	243	319	291	9,200	6,350	9,550	7,890	302	280	228	217				
10	265	245	337	288	10,100	8,330	9,950	6,940	307	284	232	222				
11	265	245	336	289	10,300	7,770	7,940	6,170	308	280	234	222				
12	269	247	336	288	8,770	6,920	8,000	6,560	306	281	236	224				
13	267	247	347	295	7,720	6,500	7,940	6,730	302	279	241	228				
14	274	251	330	295	9,340	3,250	7,920	7,130	303	278	247	232				
15	311	252	326	294	4,460	3,470	8,000	6,950	312	280	249	234				
16	293	256	345	300	5,470	3,790	8,220	6,960	322	288	247	228				
17	289	255	337	303	5,860	3,670	10,600	6,440	314	291	251	236				
18	281	262	337	303	3,900	2,360	10,500	601	303	281	252	238				
19	289	261	448	280	3,810	698	727	338	301	283	253	240				
20	316	265	322	301	1,280	876	375	336	301	280	267	241				
21	303	267	322	299	1,210	970	369	332	307	286	268	245				
22	306	265	327	297	1,330	925	366	339	315	285	276	256				
23	313	264	342	299	1,360	942	454	333	307	286	281	260				
24	319	265	344	305	1,850	1,020	356	332	313	280	280	262				
25	305	260	349	303	1,730	986	358	333	297	258	284	266				
26	323	265	366	295	1,420	923	358	336	296	276	289	265				
27	317	263	806	304	1,750	1,160	355	329	294	281	297	272				
28	295	252	1,480	307	1,910	1,320	346	321	299	280	294	275				
29	295	197	358	304	2,300	1,570	345	317	287	231	298	280				
30	298	267	324	298	2,410	1,840	343	314	---	---	301	286				
31	305	270	---	---	3,190	2,350	338	307	---	---	332	282				
MONTH	323	197	1,480	269	10,300	301	10,600	307	330	231	332	203				

## 02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	874	285	6,530	4,410	6,040	4,160	383	278	225	214	216	190
2	1,670	496	6,700	3,890	5,640	3,250	397	312	230	217	213	195
3	2,120	1,410	5,370	1,870	5,110	2,000	365	318	232	222	217	199
4	2,600	1,710	3,000	2,700	3,970	1,740	365	314	239	226	240	210
5	3,000	2,280	3,060	2,900	4,280	1,900	360	306	238	222	236	197
6	3,790	2,790	3,390	2,970	4,820	2,340	370	302	233	222	205	166
7	4,240	2,970	3,560	2,910	5,780	3,240	355	275	230	196	187	163
8	4,380	3,100	3,710	2,950	5,020	2,660	367	303	208	195	167	145
9	4,690	3,510	4,320	2,940	3,600	888	368	308	199	187	179	149
10	4,490	3,470	5,110	2,990	1,810	1,450	365	312	199	179	194	164
11	4,180	2,820	4,790	3,100	2,130	1,760	363	309	186	160	194	168
12	2,850	1,130	5,230	3,190	2,300	1,970	332	268	170	155	222	175
13	---	---	5,620	3,710	2,350	309	446	310	190	161	226	179
14	---	---	5,590	3,910	1,550	737	505	428	205	162	257	145
15	---	---	5,950	3,490	1,850	759	528	475	169	153	152	130
16	---	---	5,900	2,360	2,180	1,300	544	473	158	142	158	133
17	318	297	6,060	2,640	2,140	1,800	544	344	155	142	170	143
18	324	300	5,850	3,930	1,920	329	529	255	154	144	172	143
19	340	308	5,620	4,300	344	304	382	272	167	152	175	147
20	341	315	5,190	3,860	349	316	291	262	170	161	182	152
21	1,110	335	4,730	3,480	370	343	281	251	172	162	176	159
22	1,320	999	5,390	3,280	389	364	257	205	169	160	171	158
23	1,510	1,300	5,760	3,410	410	374	208	185	165	158	170	156
24	2,130	1,510	6,260	3,730	445	327	199	184	184	161	182	164
25	2,640	1,950	6,440	4,550	415	370	203	193	174	161	198	171
26	2,740	2,510	6,210	5,240	444	224	200	187	179	155	205	176
27	2,890	2,690	5,730	5,050	403	306	201	189	183	169	202	187
28	2,890	2,790	5,310	4,780	377	247	202	191	193	171	195	181
29	4,180	2,780	5,070	3,660	343	140	211	195	190	172	186	175
30	5,980	2,880	4,830	3,170	389	271	219	201	209	180	184	174
31	---	---	5,640	3,780	---	---	222	207	207	187	---	---
MONTH	---	---	6,700	1,870	6,040	140	544	184	239	142	257	130

## 02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	---	---	287	270	309	300	3,700	2,950	313	307	231	216				
2	---	---	288	272	315	300	5,010	2,970	311	307	219	208				
3	---	---	295	274	2,450	306	6,770	3,240	313	301	208	203				
4	---	---	300	274	6,230	323	7,850	4,840	303	298	206	203				
5	---	---	313	280	6,400	5,240	8,100	5,970	302	293	210	205				
6	---	---	303	265	6,450	3,880	8,200	5,980	294	286	213	208				
7	---	---	309	275	7,040	3,640	6,700	3,840	287	284	216	212				
8	---	---	331	285	7,310	5,460	8,460	3,420	286	282	219	215				
9	---	---	298	286	9,090	6,220	9,430	7,770	286	283	225	217				
10	---	---	323	285	9,830	8,120	9,850	6,700	286	284	224	219				
11	---	---	323	288	10,100	7,560	7,860	5,990	285	283	231	222				
12	---	---	329	290	8,270	6,640	7,930	6,390	286	283	233	225				
13	---	---	337	293	7,550	5,730	7,850	6,360	286	282	237	228				
14	---	---	310	294	8,900	2,310	7,790	6,740	287	280	242	232				
15	---	---	313	297	4,370	3,350	7,870	6,770	286	280	245	234				
16	---	---	322	299	5,330	3,500	7,990	6,670	293	281	249	219				
17	---	---	315	302	5,660	3,540	10,400	6,190	291	284	252	239				
18	---	---	317	304	3,780	2,260	10,400	594	287	283	250	242				
19	---	---	439	271	3,550	494	693	337	287	284	247	213				
20	---	---	312	300	1,180	859	367	338	289	285	252	243				
21	---	---	309	300	1,190	951	355	338	289	285	256	248				
22	294	265	309	300	1,300	912	353	339	291	286	261	254				
23	299	264	321	301	1,330	920	439	335	294	288	264	260				
24	295	262	330	301	1,790	1,010	337	335	296	276	265	262				
25	309	262	332	300	1,670	962	338	335	281	263	269	262				
26	308	260	355	300	1,380	930	339	336	284	280	272	265				
27	306	263	773	302	1,700	1,160	339	322	286	273	277	269				
28	281	236	1,410	305	1,840	1,280	328	322	289	278	279	273				
29	284	186	341	303	2,230	1,640	322	319	278	231	284	277				
30	283	268	311	300	2,370	1,830	321	317	---	---	289	282				
31	296	268	---	---	3,090	2,320	318	309	---	---	322	287				
MONTH	---	---	1,410	265	10,100	300	10,400	309	313	231	322	203				
DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	867	283	6,290	4,080	5,970	2,990	374	286	226	213	211	190				
2	1,640	494	6,660	3,730	5,300	2,500	375	314	223	217	210	196				
3	2,060	1,390	5,280	1,810	4,350	1,770	357	313	226	218	209	200				
4	2,560	1,700	2,940	2,670	3,870	1,700	348	310	228	220	229	208				
5	2,950	2,240	2,990	2,900	4,200	1,840	349	301	229	222	228	196				
6	3,670	2,750	3,290	2,960	4,950	2,290	363	252	226	221	200	168				
7	4,160	2,880	3,510	2,940	5,640	2,580	341	265	223	197	178	164				
8	4,340	2,920	3,660	2,920	4,970	2,130	362	299	202	192	165	149				
9	4,620	3,170	4,290	2,940	3,570	1,040	356	303	192	186	168	150				
10	4,150	3,290	5,050	2,970	1,770	1,440	355	305	193	179	178	167				
11	4,100	2,780	4,770	3,050	2,080	1,660	348	308	179	160	189	172				
12	2,780	1,110	5,150	3,070	2,240	1,930	322	264	166	155	218	177				
13	---	---	5,630	3,320	2,280	319	433	298	185	162	221	181				
14	---	---	5,550	3,340	1,460	714	491	424	203	158	251	137				
15	---	---	5,800	3,330	1,800	772	516	472	166	153	137	129				
16	---	---	5,760	2,310	2,090	1,300	540	472	153	144	146	132				
17	314	298	5,940	2,250	2,090	1,800	532	346	152	145	157	142				
18	316	302	5,710	3,850	1,880	327	515	269	154	147	162	139				
19	329	310	5,500	4,210	333	298	370	268	164	153	166	155				
20	353	314	5,070	3,680	338	312	277	264	171	162	179	149				
21	1,040	332	4,650	3,310	360	336	274	250	170	165	172	158				
22	1,270	983	5,210	3,040	378	360	250	203	166	161	168	157				
23	1,460	1,270	5,630	3,110	400	374	203	183	163	160	167	154				
24	2,050	1,460	6,100	3,580	428	324	193	183	168	161	179	163				
25	2,530	1,890	6,270	4,180	401	375	196	192	168	158	194	170				
26	2,660	2,460	5,970	5,000	419	207	195	186	169	155	202	173				
27	2,800	2,660	5,530	4,840	398	311	195	189	172	168	196	186				
28	2,820	2,760	5,190	4,650	356	254	198	190	175	171	190	180				
29	4,110	2,760	4,950	2,780	336	134	204	194	182	174	180	174				
30	5,800	2,820	4,790	2,870	378	269	207	201	190	181	179	172				
31	---	---	5,580	3,590	---	---	213	206	202	184	---	---				
MONTH	---	---	6,660	1,810	5,970	134	540	183	229	144	251	129				

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	27.0	26.3	25.5	23.9	19.3	18.1	22.4	21.1	16.8	15.8	17.7	17.0
2	26.4	25.8	25.8	23.8	19.3	17.3	22.3	21.4	16.7	16.0	18.1	16.6
3	27.1	25.4	25.1	24.1	18.5	17.7	21.8	21.4	17.4	15.9	18.6	17.2
4	27.0	25.3	25.6	24.1	19.8	18.2	22.0	21.4	18.1	16.0	19.6	18.0
5	27.0	25.5	26.4	24.9	20.3	19.7	22.4	21.9	18.9	17.3	20.5	19.0
6	27.3	25.6	26.6	25.6	20.4	18.7	22.7	22.2	19.4	18.1	21.5	19.9
7	27.4	26.0	27.0	25.1	19.1	16.9	22.3	18.9	19.3	18.2	21.5	21.0
8	28.0	25.9	27.0	25.3	18.2	17.5	19.4	18.5	18.2	17.0	22.1	20.5
9	27.5	25.8	26.5	24.2	19.2	18.1	20.2	19.3	18.5	16.6	21.5	20.3
10	26.8	26.0	25.1	23.6	20.2	19.2	20.1	17.8	19.0	17.2	21.4	19.7
11	26.6	26.0	25.1	23.7	20.2	19.6	17.8	16.7	19.8	18.0	21.5	19.2
12	26.5	26.1	25.3	23.7	19.9	19.4	18.0	16.7	19.9	18.7	20.8	19.4
13	27.3	25.9	25.2	23.3	20.0	19.4	18.6	17.7	21.5	19.1	22.0	19.3
14	27.0	26.1	23.9	21.6	21.2	19.8	18.9	18.3	20.8	20.3	22.4	20.1
15	27.4	25.8	24.1	22.1	21.3	19.9	19.1	18.6	20.5	18.8	22.2	20.7
16	26.7	25.1	24.3	22.4	20.9	19.5	19.1	18.8	19.5	18.3	21.2	20.1
17	26.6	25.2	24.6	22.8	21.5	20.2	19.2	18.8	19.3	17.6	21.9	19.0
18	27.0	24.8	24.6	23.0	20.6	18.8	19.1	17.0	18.9	16.8	21.7	19.5
19	27.0	24.7	24.2	22.9	19.1	15.8	17.5	16.1	19.3	16.5	23.2	20.3
20	25.8	24.7	22.9	21.0	17.8	16.3	17.2	15.3	18.4	16.9	23.7	20.9
21	26.3	24.4	22.2	20.4	17.8	16.0	17.1	15.1	19.1	17.7	22.5	20.4
22	25.6	23.8	22.4	20.6	18.1	16.3	16.8	14.9	20.8	17.9	23.1	20.7
23	26.0	24.1	22.2	20.9	18.9	16.7	16.6	14.8	20.2	18.0	21.7	19.8
24	26.3	23.5	22.7	21.5	20.1	17.6	16.1	14.6	20.4	19.2	21.3	19.6
25	25.9	24.2	22.4	22.0	19.4	16.9	16.6	15.5	20.0	18.9	21.2	19.9
26	26.5	25.0	22.5	21.4	19.2	16.2	17.3	16.4	19.7	19.1	22.2	20.0
27	26.6	25.1	23.2	22.0	19.6	16.9	17.9	16.4	19.4	17.9	22.7	20.7
28	26.0	25.2	23.3	22.2	19.8	17.7	17.4	16.1	18.3	17.2	23.6	21.0
29	26.1	24.4	22.7	18.0	20.5	19.3	17.3	15.6	18.1	17.3	22.9	20.7
30	25.7	23.8	19.1	17.4	21.0	19.8	16.7	16.1	---	---	22.6	21.1
31	25.7	23.8	---	---	22.3	20.4	16.3	15.8	---	---	23.5	21.8
MONTH	28.0	23.5	27.0	17.4	22.3	15.8	22.7	14.6	21.5	15.8	23.7	16.6
DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER						
1	23.2	21.1	25.7	24.8	29.8	29.2	31.0	28.9	28.7	27.9	28.9	27.2
2	22.9	20.4	26.9	25.5	29.7	29.2	30.3	29.2	28.2	27.5	28.9	27.5
3	23.6	20.8	26.7	24.2	29.2	28.0	30.4	28.7	28.6	27.6	28.7	27.7
4	23.9	21.4	25.5	23.0	28.5	27.4	30.6	28.8	28.4	27.7	28.5	27.5
5	23.8	21.6	25.6	22.8	27.8	26.7	30.5	28.9	28.5	27.8	27.5	25.3
6	24.1	21.6	25.6	23.2	28.1	26.4	30.7	29.0	29.2	28.1	25.4	25.0
7	23.9	22.5	25.8	24.3	28.2	27.5	30.5	29.3	28.9	27.8	26.5	25.1
8	24.0	23.2	25.8	24.7	28.1	27.2	30.3	29.1	27.9	27.2	27.4	26.4
9	24.2	23.5	25.8	24.9	27.9	25.7	31.6	29.6	28.5	27.0	27.8	26.4
10	24.6	23.9	25.5	24.6	28.0	26.3	32.4	29.9	28.0	27.2	29.0	26.8
11	24.7	24.0	25.6	24.9	28.9	27.2	32.3	30.5	28.0	27.2	29.4	27.6
12	24.7	21.6	25.8	24.8	29.1	27.7	32.0	29.5	28.2	27.7	29.1	27.7
13	---	---	26.2	25.0	28.9	26.3	31.3	29.2	28.3	27.2	29.2	27.7
14	---	---	26.5	25.2	28.0	26.5	30.3	29.2	27.4	26.5	28.3	27.0
15	---	---	26.6	24.8	28.3	26.9	30.2	29.3	26.9	26.1	27.1	26.6
16	---	---	26.5	25.2	28.5	27.1	30.1	28.8	27.0	26.4	28.1	26.9
17	24.2	21.7	27.1	25.8	28.9	27.0	29.8	27.6	27.4	26.5	28.8	27.1
18	24.7	22.0	26.8	26.0	32.3	27.0	29.0	27.5	27.9	27.0	28.9	27.8
19	25.8	22.4	26.8	26.2	31.5	30.4	28.6	28.1	27.4	26.7	29.5	27.9
20	23.7	22.3	27.2	26.4	31.5	30.3	28.1	27.2	27.5	27.0	28.2	27.1
21	24.9	22.9	27.0	26.3	31.6	30.2	27.5	26.5	27.6	27.0	27.1	26.3
22	25.1	22.8	27.2	26.3	31.7	30.2	27.7	26.9	27.7	26.8	27.4	25.9
23	25.3	23.7	27.2	26.3	32.5	30.2	27.8	27.0	27.4	26.9	27.6	26.2
24	25.5	24.3	27.3	26.2	31.8	30.2	28.3	27.3	27.2	26.7	27.3	26.3
25	26.2	24.7	27.4	26.7	31.2	30.2	28.9	27.2	27.6	26.4	26.7	26.0
26	26.7	25.1	27.8	27.2	31.9	29.0	28.3	27.6	27.8	26.7	26.0	24.8
27	26.4	24.2	28.1	27.6	30.6	28.9	28.2	27.5	27.9	27.1	25.9	24.7
28	24.8	22.6	28.3	27.8	29.6	26.9	28.0	27.2	28.0	27.3	26.7	25.3
29	24.8	23.6	28.5	28.1	29.4	26.1	29.2	26.9	28.3	27.5	26.9	25.8
30	25.4	24.0	29.4	28.3	30.8	27.2	29.5	27.6	28.4	27.7	27.5	26.3
31	---	---	30.0	29.0	---	---	29.1	28.0	28.8	27.5	---	---
MONTH	---	---	30.0	22.8	32.5	25.7	32.4	26.5	29.2	26.1	29.5	24.7





## 02304515 HILLSBOROUGH RIVER AT HANNA'S WHIRL AT TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5,660	541	9,970	3,660	10,700	2,570	765	305	225	170	208	188
2	5,380	792	10,500	4,940	9,580	2,740	1,600	313	232	222	211	200
3	5,240	1,600	9,310	3,310	8,740	1,400	2,260	328	235	216	215	205
4	5,950	1,940	5,960	3,170	7,720	2,460	2,430	331	236	155	231	212
5	7,060	2,460	5,870	3,320	8,600	2,460	2,360	342	---	---	233	147
6	7,560	3,150	5,910	3,070	9,230	3,020	1,720	311	---	---	197	153
7	8,060	3,380	6,030	3,310	8,530	3,370	1,370	307	---	---	199	180
8	7,580	3,460	6,920	3,170	9,660	3,510	1,210	302	---	---	182	166
9	6,760	3,540	8,200	3,340	6,550	1,680	795	316	---	---	179	147
10	6,770	3,720	9,210	3,500	2,950	1,620	519	306	---	---	201	179
11	7,680	3,530	10,600	3,830	2,830	1,830	548	310	---	---	203	189
12	5,350	1,230	10,200	3,970	3,240	1,910	952	299	---	---	225	194
13	3,410	1,630	10,500	3,900	4,350	587	418	290	---	---	232	194
14	2,440	1,300	10,500	4,290	2,650	888	472	417	194	152	257	143
15	1,300	304	10,200	4,370	2,570	820	496	472	171	156	149	132
16	318	301	9,530	3,490	1,870	1,160	521	486	161	146	153	139
17	313	298	7,920	4,390	2,560	1,400	515	480	157	148	166	147
18	318	303	7,550	4,350	2,360	378	515	353	156	149	167	151
19	324	308	7,360	4,110	477	319	361	267	169	153	171	154
20	352	322	7,260	4,190	338	316	281	186	172	163	191	156
21	651	332	7,640	3,940	359	334	283	255	174	164	189	166
22	1,240	380	9,110	4,060	378	358	260	211	190	122	183	166
23	1,340	1,020	9,830	4,100	400	364	216	188	191	147	180	162
24	2,700	1,290	12,200	4,060	400	288	214	147	174	117	191	170
25	5,240	1,620	9,220	2,910	386	373	203	195	207	120	202	178
26	6,330	2,010	8,240	2,820	396	209	201	159	185	158	211	139
27	4,360	2,510	9,070	2,710	349	316	202	139	179	172	214	198
28	6,010	2,660	8,900	2,530	374	325	210	140	181	174	204	191
29	11,900	3,020	8,760	2,500	385	233	217	200	189	177	196	186
30	11,400	3,880	10,200	2,540	353	222	216	207	195	183	195	184
31	---	---	10,600	2,070	---	---	223	211	214	152	---	---
MONTH	11,900	298	12,200	2,070	10,700	209	2,430	139	---	---	257	132



02304515 HILLSBOROUGH RIVER AT HANNA'S WHIRL AT TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	237	210	279	184	---	---	10,500	4,800	---	---	---	---
2	243	224	270	222	---	---	11,900	4,140	---	---	---	---
3	245	230	1,430	256	---	---	12,700	5,040	---	---	---	---
4	249	232	2,270	283	---	---	13,700	6,570	---	---	---	---
5	253	231	2,640	272	---	---	13,600	6,020	---	---	---	---
6	255	237	2,330	268	---	---	12,400	5,920	---	---	---	---
7	271	240	719	254	---	---	10,900	5,650	---	---	---	---
8	263	245	503	266	---	---	14,200	5,220	---	---	---	---
9	268	248	377	275	---	---	16,300	10,700	---	---	---	---
10	266	251	335	289	---	---	13,900	6,960	---	---	---	---
11	276	253	355	295	---	---	11,700	7,520	---	---	---	---
12	270	253	350	296	---	---	12,400	7,660	---	---	---	---
13	272	250	522	301	---	---	13,300	7,940	---	---	---	---
14	272	250	1,020	299	---	---	14,100	11,900	---	---	---	---
15	289	252	4,860	364	---	---	16,500	11,900	---	---	---	---
16	317	257	6,760	439	---	---	---	---	---	---	---	---
17	304	260	6,300	367	---	---	---	---	---	---	---	---
18	308	263	---	---	---	---	---	---	---	---	---	---
19	294	265	---	---	---	---	---	---	---	---	---	---
20	287	268	---	---	---	---	---	---	---	---	---	---
21	292	270	---	---	---	---	---	---	---	---	---	---
22	342	269	---	---	---	---	---	---	---	---	---	---
23	320	271	---	---	---	---	---	---	---	---	---	---
24	342	269	---	---	---	---	---	---	---	---	---	---
25	360	269	---	---	---	---	---	---	---	---	---	---
26	389	266	---	---	---	---	---	---	---	---	---	---
27	319	269	---	---	---	---	---	---	---	---	---	---
28	326	268	---	---	---	---	---	---	---	---	---	---
29	289	262	---	---	9,480	4,310	---	---	---	---	---	---
30	328	264	---	---	8,970	4,330	---	---	---	---	---	---
31	285	258	---	---	9,230	4,800	---	---	---	---	---	---
MONTH	389	210	---	---	---	---	---	---	---	---	---	---
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER						
1	7,240	655	12,800	5,000	11,400	2,730	837	274	231	156	205	187
2	6,740	1,040	10,900	5,910	10,700	2,860	1,060	234	249	225	210	198
3	5,970	1,700	9,420	3,300	9,840	2,750	1,930	258	243	219	214	203
4	7,010	2,020	6,390	3,020	8,570	2,550	1,450	180	245	148	227	210
5	7,820	2,670	6,210	3,200	9,450	2,650	1,400	251	---	---	230	132
6	8,430	3,380	6,250	3,260	9,810	3,090	2,070	243	---	---	190	140
7	8,460	3,580	6,510	3,390	9,380	3,670	2,060	311	---	---	193	177
8	7,850	3,890	8,010	3,380	9,880	3,720	1,860	315	---	---	178	165
9	7,000	3,900	9,550	3,520	6,740	1,650	1,110	320	---	---	173	129
10	7,000	3,810	10,600	3,740	3,270	1,650	639	310	---	---	195	173
11	9,240	3,740	12,400	4,190	3,040	1,950	666	315	---	---	201	180
12	5,460	1,230	13,100	4,960	3,720	1,960	1,080	304	---	---	231	186
13	3,510	1,660	13,400	9,890	5,310	598	421	297	---	---	235	182
14	2,500	1,400	13,500	7,320	2,830	935	476	420	197	151	259	148
15	1,490	309	12,200	6,020	2,630	835	501	467	176	158	155	133
16	322	304	11,500	5,270	2,120	1,190	525	482	168	147	176	141
17	319	304	9,340	5,380	2,980	1,410	521	478	166	147	177	157
18	329	305	8,710	4,960	3,200	379	520	356	161	149	175	154
19	329	311	8,290	4,640	502	325	366	270	172	153	176	158
20	349	323	8,700	4,480	341	321	287	171	178	162	201	158
21	812	335	9,360	4,250	350	319	293	261	177	163	199	168
22	1,380	386	12,600	4,620	350	327	266	214	218	119	189	168
23	1,840	1,020	14,600	4,650	367	322	267	191	173	150	186	164
24	3,420	1,300	14,600	4,670	370	268	221	141	178	107	197	173
25	6,740	1,620	14,900	8,760	371	340	209	198	219	108	210	182
26	7,480	2,280	13,800	8,010	361	202	208	157	190	155	215	134
27	6,520	2,700	14,100	5,130	327	275	209	134	183	168	221	205
28	9,890	2,790	14,200	9,580	338	295	215	145	183	172	211	192
29	13,600	3,660	13,700	6,140	360	193	221	203	191	175	204	191
30	14,200	5,630	11,600	6,630	301	217	220	210	195	182	202	188
31	---	---	11,200	3,630	---	---	228	215	207	137	---	---
MONTH	14,200	304	14,900	3,020	11,400	193	2,070	134	---	---	259	129

02304515 HILLSBOROUGH RIVER AT HANNA'S WHIRL AT TAMPA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.9	26.2	25.1	24.2	---	---	21.4	20.1	---	---	---	---
2	26.4	25.7	25.0	24.2	---	---	21.6	20.4	---	---	---	---
3	27.2	25.3	25.0	24.5	---	---	21.8	20.8	---	---	---	---
4	27.0	25.3	25.0	24.3	---	---	22.2	21.3	---	---	---	---
5	27.0	25.4	26.1	24.7	---	---	22.5	21.5	---	---	---	---
6	27.3	25.5	26.3	25.4	---	---	22.4	21.1	---	---	---	---
7	27.3	25.8	26.8	25.2	---	---	21.9	18.7	---	---	---	---
8	27.8	25.7	26.9	25.6	---	---	20.3	17.4	---	---	---	---
9	27.4	25.6	26.3	24.7	---	---	20.4	17.8	---	---	---	---
10	26.7	25.8	24.8	23.4	---	---	20.3	17.8	---	---	---	---
11	26.6	25.9	25.0	23.6	---	---	18.3	16.2	---	---	---	---
12	26.6	26.0	25.0	23.7	---	---	18.7	15.4	---	---	---	---
13	27.2	25.9	25.1	23.8	---	---	18.7	16.3	---	---	---	---
14	27.0	26.2	24.3	21.2	---	---	18.9	15.7	---	---	---	---
15	27.4	25.9	23.1	21.9	---	---	19.0	17.4	---	---	---	---
16	26.3	24.8	23.4	22.4	---	---	---	---	---	---	---	---
17	26.0	22.8	23.7	23.1	---	---	---	---	---	---	---	---
18	26.2	24.7	---	---	---	---	---	---	---	---	---	---
19	26.1	24.7	---	---	---	---	---	---	---	---	---	---
20	26.1	25.0	---	---	---	---	---	---	---	---	---	---
21	25.8	24.6	---	---	---	---	---	---	---	---	---	---
22	25.3	23.7	---	---	---	---	---	---	---	---	---	---
23	25.4	24.0	---	---	---	---	---	---	---	---	---	---
24	25.3	23.2	---	---	---	---	---	---	---	---	---	---
25	25.5	24.0	---	---	---	---	---	---	---	---	---	---
26	26.4	24.9	---	---	---	---	---	---	---	---	---	---
27	26.3	25.2	---	---	---	---	---	---	---	---	---	---
28	26.1	25.4	---	---	---	---	---	---	---	---	---	---
29	26.9	24.7	---	---	20.0	18.2	---	---	---	---	---	---
30	25.4	23.6	---	---	20.2	19.0	---	---	---	---	---	---
31	25.2	24.0	---	---	21.1	19.6	---	---	---	---	---	---
MONTH	27.8	22.8	---	---	---	---	---	---	---	---	---	---
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER						
1	23.5	21.8	27.6	24.6	31.1	28.5	30.8	28.4	28.6	27.8	28.7	27.1
2	22.7	20.9	26.9	25.5	30.6	28.7	30.3	28.4	28.1	27.6	28.9	27.4
3	22.5	20.7	26.3	25.0	30.1	28.4	29.8	28.4	28.5	27.6	28.8	27.6
4	22.7	20.8	26.3	23.5	29.1	27.7	30.0	28.5	28.3	27.4	28.5	27.5
5	23.2	20.8	26.2	23.5	28.6	27.3	30.4	29.0	---	---	27.5	25.0
6	23.3	21.0	26.0	23.9	29.1	27.0	31.0	29.0	---	---	25.3	25.0
7	23.6	21.9	26.4	24.4	28.4	27.5	30.5	29.3	---	---	26.5	25.1
8	23.9	22.4	26.8	24.6	28.4	27.3	31.0	29.0	---	---	27.3	26.3
9	24.4	23.1	26.3	24.8	28.9	26.0	31.9	29.5	---	---	27.6	25.9
10	25.2	23.5	25.7	24.9	28.2	26.0	32.3	30.4	---	---	28.9	26.7
11	24.8	23.7	26.2	25.0	29.0	26.8	32.3	31.1	---	---	29.3	27.5
12	24.1	22.0	27.1	25.0	29.4	27.7	31.2	30.4	---	---	28.9	27.6
13	23.0	22.0	27.8	25.1	30.0	26.0	31.2	29.1	---	---	29.0	27.6
14	22.2	20.9	27.8	25.2	28.4	26.9	30.6	29.0	27.3	26.5	28.4	27.0
15	23.4	19.9	28.1	25.3	28.0	27.1	30.3	29.1	26.9	26.0	27.1	26.6
16	23.7	20.0	27.3	25.6	29.2	27.1	30.1	28.8	27.0	26.4	28.0	26.8
17	24.2	21.6	28.8	25.1	29.4	27.5	29.3	28.9	27.4	26.5	28.7	27.1
18	24.4	21.8	28.5	25.8	31.7	27.7	28.9	27.5	27.7	26.9	29.1	27.7
19	25.2	22.2	29.0	26.2	31.7	30.4	28.5	27.9	27.4	26.7	29.6	27.8
20	25.0	22.7	28.7	26.4	31.8	29.9	28.0	26.4	27.6	26.9	28.1	27.0
21	24.5	23.4	29.1	26.3	31.5	29.9	27.7	26.5	27.6	26.9	27.0	26.2
22	25.2	23.3	29.0	26.3	31.6	30.0	27.8	26.8	27.7	26.8	27.3	25.9
23	26.3	24.1	29.0	26.3	32.2	29.8	27.9	27.0	27.3	26.9	27.6	26.1
24	26.4	24.4	28.3	26.3	32.0	29.3	28.4	27.3	27.1	26.4	27.4	26.2
25	25.8	24.6	28.6	26.3	31.5	30.0	29.0	27.2	27.6	25.7	26.6	26.0
26	26.3	24.8	28.8	26.8	31.8	27.1	28.2	27.5	27.8	26.6	26.0	24.6
27	25.8	24.8	29.6	26.9	30.3	28.7	28.0	27.5	27.8	27.1	25.8	24.6
28	26.0	23.3	29.8	27.4	29.5	28.6	28.3	27.2	28.0	27.2	26.6	25.3
29	25.2	23.6	30.4	27.2	29.4	28.1	29.0	26.8	28.2	27.4	26.8	25.7
30	26.6	24.0	30.7	28.0	30.1	28.0	29.4	27.5	28.3	27.6	27.7	26.3
31	---	---	31.0	28.4	---	---	28.9	27.9	28.7	26.6	---	---
MONTH	26.6	19.9	31.0	23.5	32.2	26.0	32.3	26.4	---	---	29.6	24.6

02304515 HILLSBOROUGH RIVER AT HANNA'S WHIRL AT TAMPA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.6	25.9	24.9	23.9	---	---	20.3	20.0	---	---	---	---
2	26.1	25.4	24.8	23.9	---	---	20.8	20.2	---	---	---	---
3	26.9	25.0	24.8	24.1	---	---	21.0	20.5	---	---	---	---
4	26.7	25.0	24.7	24.1	---	---	21.4	20.8	---	---	---	---
5	26.7	25.1	25.6	24.5	---	---	21.8	21.1	---	---	---	---
6	27.0	25.2	25.9	25.1	---	---	22.0	21.2	---	---	---	---
7	27.0	25.6	26.2	24.9	---	---	21.7	18.7	---	---	---	---
8	27.5	25.4	26.5	25.4	---	---	20.3	17.5	---	---	---	---
9	27.2	25.4	26.1	24.4	---	---	20.3	19.6	---	---	---	---
10	26.4	25.6	24.5	23.1	---	---	20.1	17.8	---	---	---	---
11	26.4	25.6	24.4	23.4	---	---	18.4	15.9	---	---	---	---
12	26.3	25.8	24.4	23.4	---	---	18.6	16.0	---	---	---	---
13	26.9	25.6	24.5	23.6	---	---	18.8	16.8	---	---	---	---
14	26.7	25.9	24.0	21.0	---	---	19.1	18.2	---	---	---	---
15	27.0	25.6	23.5	22.2	---	---	19.2	18.4	---	---	---	---
16	26.0	24.5	23.4	22.7	---	---	---	---	---	---	---	---
17	25.8	24.9	23.6	22.9	---	---	---	---	---	---	---	---
18	25.7	24.5	---	---	---	---	---	---	---	---	---	---
19	25.9	24.4	---	---	---	---	---	---	---	---	---	---
20	25.9	24.7	---	---	---	---	---	---	---	---	---	---
21	25.6	24.3	---	---	---	---	---	---	---	---	---	---
22	25.1	23.5	---	---	---	---	---	---	---	---	---	---
23	25.1	23.8	---	---	---	---	---	---	---	---	---	---
24	25.0	23.0	---	---	---	---	---	---	---	---	---	---
25	25.2	23.8	---	---	---	---	---	---	---	---	---	---
26	26.1	24.6	---	---	---	---	---	---	---	---	---	---
27	25.9	24.9	---	---	---	---	---	---	---	---	---	---
28	25.9	25.1	---	---	---	---	---	---	---	---	---	---
29	25.4	24.5	---	---	19.5	18.8	---	---	---	---	---	---
30	25.0	23.4	---	---	19.6	19.3	---	---	---	---	---	---
31	24.9	23.7	---	---	20.1	19.6	---	---	---	---	---	---
MONTH	27.5	23.0	---	---	---	---	---	---	---	---	---	---
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	23.1	21.4	25.4	24.5	30.3	28.0	30.5	27.7	28.2	27.4	28.4	26.8
2	22.4	20.6	26.5	25.1	29.8	28.3	29.9	27.9	27.8	27.3	28.5	27.0
3	22.2	20.4	26.0	24.8	29.6	28.1	29.5	27.9	28.2	27.3	28.4	27.2
4	22.5	20.5	25.9	23.5	28.5	27.5	29.7	28.0	28.0	27.0	28.2	27.2
5	22.9	20.6	25.6	23.4	27.9	27.0	29.7	28.4	---	---	27.2	24.6
6	22.8	20.8	25.3	23.6	28.3	27.0	30.2	28.5	---	---	25.0	24.6
7	23.1	21.6	25.9	24.1	28.0	27.3	30.2	28.8	---	---	26.1	24.8
8	23.5	22.3	25.8	24.3	28.0	27.4	30.0	28.6	---	---	27.0	26.0
9	24.1	23.0	25.4	24.7	27.9	25.7	31.4	28.8	---	---	27.2	25.4
10	24.4	23.3	25.3	24.9	27.2	25.7	32.0	29.9	---	---	28.5	26.4
11	24.5	23.4	25.4	24.9	28.1	26.5	31.9	30.2	---	---	28.9	27.2
12	23.8	21.7	25.8	25.2	28.9	27.4	30.9	30.1	---	---	28.6	27.3
13	22.7	21.8	26.2	25.5	29.6	25.8	30.8	28.8	---	---	28.7	27.2
14	21.9	20.7	26.9	25.8	28.0	26.7	30.2	28.7	26.9	26.1	28.1	26.6
15	23.0	19.7	26.6	25.7	27.6	26.7	30.0	28.7	26.5	25.7	26.7	26.3
16	23.4	19.7	26.4	25.6	28.6	26.7	29.8	28.4	26.7	26.0	27.7	26.5
17	23.9	21.3	27.3	25.4	28.8	27.2	29.0	28.5	27.1	26.2	28.4	26.7
18	24.1	21.5	27.5	25.7	31.4	27.2	28.6	27.2	27.4	26.5	28.7	27.3
19	24.9	21.9	28.0	26.0	31.2	30.1	28.1	27.6	27.1	26.3	29.3	27.5
20	24.5	22.3	28.0	26.5	31.3	29.6	27.7	25.9	27.2	26.6	27.7	26.7
21	24.1	23.1	28.1	26.6	31.2	29.6	27.4	26.1	27.3	26.6	26.7	25.9
22	24.9	23.0	27.5	26.6	31.3	29.7	27.5	26.5	27.3	26.4	27.0	25.6
23	25.5	23.8	27.3	26.8	31.9	29.3	27.6	26.6	27.0	26.6	27.3	25.8
24	25.6	24.0	27.4	26.8	31.3	28.9	28.1	26.9	26.8	26.0	27.0	25.9
25	25.2	24.2	27.5	26.7	31.1	29.7	28.6	26.8	27.3	25.3	26.3	25.6
26	25.2	24.5	27.6	26.7	31.2	27.1	27.9	27.2	27.5	26.3	25.6	24.2
27	25.4	24.6	27.7	27.1	29.9	28.4	27.7	27.2	27.5	26.7	25.5	24.3
28	24.6	23.1	28.1	27.5	29.1	28.0	27.9	26.8	27.6	26.9	26.2	25.0
29	24.6	23.8	28.6	27.6	29.1	27.7	28.7	26.5	27.9	27.1	26.5	25.4
30	24.7	24.1	28.7	27.7	29.7	27.6	29.1	27.2	28.0	27.3	27.3	25.9
31	---	---	29.7	28.0	---	---	28.6	27.6	28.4	26.1	---	---
MONTH	25.6	19.7	29.7	23.4	31.9	25.7	32.0	25.9	---	---	29.3	24.2

## 02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°01'10", long 82°27'07" (1927 North American datum), in NE $\frac{1}{4}$  sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, on left bank, on private dock on East Hollywood Boulevard, 100 ft downstream from Nebraska Avenue in Sulphur Springs, and 2.0 mi downstream from control structure for Tampa Reservoir.

DRAINAGE AREA.--Indeterminate.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 2000 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.92 ft, July 23, 2001; minimum, 2.74 ft below NGVD, Mar. 5, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.85 ft, Apr. 12; minimum, 2.51 ft below NGVD, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	2.38	-0.64	1.56	-1.25	0.83	-1.02	1.32	-0.87	1.61	-0.42	2.08	-0.33
2	2.38	-0.55	1.40	-0.74	0.78	-0.99	1.56	-1.19	1.68	-0.41	1.75	-0.15
3	2.14	-0.43	2.37	-0.27	1.70	-0.96	1.05	-1.24	0.76	-0.44	1.28	-0.63
4	2.66	-0.39	2.40	0.13	1.67	-0.67	1.97	-1.09	1.67	-0.38	2.02	-0.54
5	2.14	-0.72	2.39	-0.06	2.17	-0.64	2.32	-1.16	1.98	-0.43	2.37	-0.46
6	2.50	-0.38	2.24	-0.28	1.02	-1.72	1.38	-1.27	2.28	-0.45	2.42	-0.48
7	2.97	-0.11	2.20	-0.44	0.65	-1.86	1.27	-2.51	2.50	-0.46	2.01	-0.81
8	2.32	-0.19	2.17	-0.80	1.65	-1.40	1.06	-1.76	0.86	-0.38	1.76	-1.32
9	2.39	-0.17	2.17	-1.27	1.87	-1.39	2.26	-0.85	1.11	-0.32	1.75	-0.94
10	2.43	-0.27	0.78	-1.78	2.60	-0.54	2.96	-1.58	1.60	-0.39	1.63	-0.82
11	2.58	-0.27	1.81	-1.21	2.23	-1.37	0.69	-2.14	1.78	-0.42	1.52	-1.68
12	2.58	-0.17	2.17	-0.77	2.04	-1.24	1.13	-1.25	1.95	0.16	2.05	-1.30
13	2.44	-0.42	2.62	-0.57	1.66	-0.86	1.34	-0.96	1.68	-0.38	1.83	-1.16
14	2.53	-0.04	1.37	-1.21	2.48	-0.15	1.62	-0.66	2.11	-0.41	2.15	-1.41
15	2.47	-0.91	2.02	-0.50	0.96	-1.46	1.60	-0.19	1.82	-0.43	2.20	-1.35
16	1.64	-0.93	2.14	-0.33	1.69	-0.69	1.77	-0.92	1.39	-0.51	2.38	-0.92
17	2.07	-0.46	1.67	-0.71	1.85	-0.58	2.45	-1.16	1.24	-1.94	1.24	-0.98
18	---	-0.58	2.41	0.23	2.06	-1.20	2.89	-0.58	-0.31	-2.46	1.94	-1.28
19	1.69	-0.57	3.29	0.22	1.48	-1.14	1.56	-1.25	0.87	-0.51	1.98	-1.04
20	1.63	-0.99	0.76	-1.09	1.13	-1.49	0.52	-1.98	2.04	-0.69	1.76	-0.93
21	2.02	-0.59	2.01	-0.65	1.71	-2.23	1.89	-0.42	2.51	-0.52	1.80	-0.78
22	2.06	-0.45	2.10	-1.15	0.62	-2.18	2.08	-0.33	2.21	-0.47	1.76	-1.72
23	2.21	-0.33	2.38	-1.15	2.27	-1.65	2.06	-0.35	1.78	-0.49	0.83	-1.74
24	2.28	-0.48	2.76	-0.99	2.83	-1.38	1.72	-0.32	2.46	0.64	1.22	-0.76
25	2.18	-0.89	3.04	-1.35	2.31	-1.76	1.90	-0.44	2.61	-0.08	1.78	-1.42
26	2.67	-0.98	2.81	-1.34	1.73	-1.83	1.99	-0.37	2.00	-0.08	1.65	-1.51
27	2.66	-0.72	2.82	-0.84	1.48	-1.42	2.03	-0.26	0.62	-0.48	1.65	-1.13
28	3.23	-0.22	2.56	-0.65	1.55	-0.91	0.50	-0.44	1.46	-1.20	1.67	-0.99
29	2.76	-1.21	0.06	-2.16	1.68	-0.45	1.37	-0.45	1.64	-0.98	1.24	-1.15
30	2.11	-1.29	0.73	-1.25	1.64	-0.02	0.96	-0.43	---	---	1.48	-1.43
31	1.49	-1.28	---	---	1.32	-0.20	0.80	-0.43	---	---	2.31	-0.89
MAX	---	-0.04	3.29	0.23	2.83	-0.02	2.96	-0.19	2.61	0.64	2.42	-0.15
MIN	---	-1.29	0.06	-2.16	0.62	-2.23	0.50	-2.51	-0.31	-2.46	0.83	-1.74



## 02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--January to August 1997 (top and bottom sensors); August 1999 to September 2000 (top and bottom sensors); October 2000 to current year (top, middle, and bottom sensors).

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface, middle, and 1.0 ft above the bottom.

REMARKS.--Records good. Interruptions in record were due to malfunction of the instruments.

## EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 38,100 microsiemens, Dec. 4, 2000; middle sensor maximum, 38,300 microsiemens, Dec. 6, 7, 2000; bottom sensor maximum, 39,300 microsiemens, Dec. 6, 7, 2000; top sensor minimum, 125 microsiemens, Dec. 20, 2002, Sept. 3, 2003; middle sensor minimum, 127 microsiemens, Dec. 20, 2002; bottom sensor minimum, 125 microsiemens, Dec. 20, 2002.

TEMPERATURE.--Top sensor maximum, 33.5°C, July 7, 1997; middle sensor maximum, 30.8°C, June 16, 2001; bottom sensor maximum, 31.4°C, July 25, 1997; top sensor minimum, 11.4°C, Jan. 25, 2003; middle sensor minimum, 11.5°C, Jan. 25, 26, 2003; bottom sensor minimum, 11.4°C, Jan. 25, 25, 2003.

## EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 25,500 microsiemens, Jan. 16; middle sensor maximum, 27,700 microsiemens, Dec. 3, 4; bottom sensor maximum, 28,700 microsiemens, May 28; top sensor minimum, 202 microsiemens, Apr. 17; middle sensor minimum, 203 microsiemens, Mar. 16; bottom sensor minimum, 203 microsiemens, Mar. 16.

TEMPERATURE.--Top sensor maximum, 29.9°C, June 2; middle sensor maximum, 29.7°C, May 31, June 1; bottom sensor maximum, 29.4°C, June 4; top sensor minimum, 14.5°C, Jan. 24; middle sensor minimum, 14.5°C, Jan. 24; bottom sensor minimum, 14.5°C, Jan. 24.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	MIN	NOVEMBER	MIN	DECEMBER	MIN	JANUARY	MIN	FEBRUARY	MIN	MARCH	MIN	MIN	MIN	MIN	
1	708	277	4,080	732	16,700	1,980	16,700	5,480	594	343	252	223				
2	502	261	4,840	837	20,700	2,960	18,900	5,840	553	338	241	221				
3	494	297	14,600	1,080	23,700	3,930	21,400	6,080	631	328	233	216				
4	542	303	13,800	1,480	23,800	5,660	22,100	6,970	622	323	257	214				
5	633	272	7,250	1,930	23,200	5,340	21,800	7,080	573	327	253	219				
6	716	299	6,090	1,700	22,500	6,570	20,600	7,040	565	311	374	221				
7	1,560	322	4,140	1,020	23,500	7,050	20,900	7,250	484	306	418	233				
8	1,190	314	4,240	817	23,900	7,340	21,500	7,910	501	336	462	223				
9	1,020	344	4,130	611	24,300	7,510	22,000	7,260	1,220	323	461	259				
10	977	335	3,780	946	24,800	8,670	20,200	7,070	1,640	374	889	243				
11	1,230	334	4,980	704	19,500	6,740	18,000	10,100	1,590	252	518	257				
12	1,210	319	10,900	1,000	22,500	7,020	21,100	7,550	1,530	328	518	245				
13	1,010	334	16,600	1,320	22,400	9,240	21,100	7,070	707	316	441	252				
14	1,080	317	13,400	1,210	25,200	6,080	22,800	7,640	1,540	303	1,570	269				
15	1,980	287	18,800	1,770	15,000	5,990	22,500	6,820	550	318	1,900	331				
16	2,960	406	18,700	1,940	19,900	7,690	25,500	8,240	3,080	417	1,460	207				
17	3,070	606	13,000	1,780	17,700	6,540	24,900	7,580	3,670	477	1,440	210				
18	3,720	629	22,100	2,020	21,400	5,250	24,500	6,070	---	---	630	283				
19	4,610	946	11,600	3,590	17,100	5,010	7,780	1,890	2,850	523	546	277				
20	5,580	835	8,750	2,610	18,200	3,740	2,390	540	2,740	435	753	268				
21	7,370	1,090	8,750	2,400	19,000	3,560	2,140	520	1,960	378	839	274				
22	5,020	940	9,210	1,940	20,500	3,660	2,050	387	1,980	378	1,030	283				
23	6,170	934	10,800	2,430	20,500	2,170	1,940	439	1,850	221	1,070	327				
24	5,260	852	10,300	2,310	20,400	4,160	2,190	390	1,630	274	694	317				
25	4,150	664	10,800	2,060	17,300	3,970	2,280	371	603	272	1,060	300				
26	4,090	648	11,700	1,880	15,600	2,450	2,160	265	566	297	1,280	309				
27	3,610	429	14,000	2,390	14,000	2,800	1,100	309	352	296	1,080	335				
28	3,260	585	15,300	3,640	17,300	3,380	609	375	321	294	1,750	360				
29	2,860	285	7,820	4,080	19,700	4,250	601	354	295	247	2,820	484				
30	2,810	453	8,800	2,480	12,400	5,610	624	352	---	---	4,990	1,210				
31	3,350	398	---	---	14,600	5,740	542	345	---	---	5,650	679				
MONTH	7,370	261	22,100	611	25,200	1,980	25,500	265	---	---	5,650	207				













02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL.—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	26.8	26.2	25.8	25.1	23.8	23.6	19.7	19.4	16.8	15.7	17.7	17.1				
2	26.5	25.8	26.0	25.8	23.7	23.1	19.9	19.5	16.8	16.1	18.0	16.6				
3	27.1	25.3	26.1	25.9	23.1	23.0	20.1	19.7	17.7	15.9	18.6	17.2				
4	26.9	25.4	26.1	25.9	23.0	22.8	20.3	19.9	18.0	16.0	19.5	17.9				
5	26.8	25.4	26.0	25.7	23.0	22.8	20.6	20.1	19.0	17.3	20.4	19.0				
6	27.1	25.5	25.8	25.6	22.9	22.3	20.9	20.3	19.3	18.2	21.2	19.9				
7	26.9	25.8	25.8	25.4	22.7	21.4	21.0	20.5	19.3	17.9	21.6	21.0				
8	27.5	25.8	25.9	25.6	22.4	21.7	20.6	20.4	18.1	17.0	22.1	20.2				
9	27.3	25.7	26.0	25.6	22.0	21.2	20.5	20.2	18.4	16.5	21.2	19.9				
10	26.6	25.7	25.7	24.6	21.4	21.1	20.3	19.9	20.9	17.2	21.7	19.7				
11	26.6	25.8	25.6	24.9	21.3	21.0	20.1	19.7	21.3	18.3	20.9	18.9				
12	26.5	25.9	25.6	25.4	21.1	20.9	19.9	19.7	21.5	19.1	20.8	19.1				
13	27.0	25.8	25.5	25.4	21.0	20.9	20.0	19.8	21.3	19.7	21.5	19.2				
14	26.9	26.1	25.4	25.3	20.9	20.6	19.8	19.2	22.4	20.4	22.2	20.2				
15	26.5	25.6	25.4	25.3	21.0	20.8	19.4	19.1	21.5	20.1	23.2	21.1				
16	25.9	25.3	25.4	25.3	21.0	20.9	19.3	19.1	22.1	18.4	22.8	20.3				
17	25.9	25.3	25.3	24.0	21.1	20.8	19.3	19.1	21.3	19.3	22.4	20.5				
18	26.6	25.5	25.3	24.9	21.1	20.9	19.3	18.8	20.1	18.0	22.4	19.0				
19	26.8	26.6	25.3	24.7	21.0	20.8	19.0	17.3	19.9	16.7	23.2	20.4				
20	26.8	26.6	24.9	23.6	20.9	20.3	18.5	15.4	19.8	17.2	23.5	20.8				
21	26.8	26.5	24.7	23.8	20.7	18.5	18.1	15.3	21.0	17.9	23.5	21.6				
22	26.7	26.3	24.5	22.8	20.1	18.7	18.2	15.1	21.0	18.1	22.9	20.3				
23	26.6	26.3	24.1	22.9	19.7	19.0	19.0	14.9	21.4	18.6	22.6	19.8				
24	26.4	25.4	23.8	22.9	19.4	19.2	18.6	14.5	21.1	19.1	22.0	19.6				
25	25.9	24.7	23.6	23.1	19.4	19.1	19.1	14.9	19.9	18.8	22.2	20.0				
26	25.8	25.0	23.6	23.2	19.2	18.8	19.8	16.2	20.0	19.1	22.5	20.2				
27	26.3	25.5	23.7	23.5	19.3	19.1	19.4	17.3	19.1	17.8	22.7	21.0				
28	26.0	25.4	24.1	23.7	19.4	19.2	17.4	16.0	18.3	17.1	22.9	21.7				
29	25.7	25.0	24.0	22.7	19.5	19.3	17.2	15.4	18.2	17.1	22.6	21.6				
30	25.4	24.7	23.8	23.3	19.6	19.4	16.7	16.2	---	---	21.7	21.6				
31	25.3	24.4	---	---	19.7	19.4	16.5	15.9	---	---	22.1	21.7				
MONTH	27.5	24.4	26.1	22.7	23.8	18.5	21.0	14.5	22.4	15.7	23.5	16.6				
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	22.3	22.0	25.1	24.7	29.0	28.5	---	---	---	---	---	---				
2	22.4	22.2	26.0	24.9	29.1	28.8	---	---	---	---	---	---				
3	22.5	22.3	26.0	25.1	29.1	28.7	---	---	---	---	---	---				
4	22.7	22.4	25.7	24.9	29.4	28.5	---	---	---	---	---	---				
5	22.7	22.5	25.5	24.3	29.2	28.4	---	---	---	---	---	---				
6	22.9	22.3	25.3	24.4	29.2	28.3	---	---	---	---	---	---				
7	23.2	22.5	25.5	24.8	29.1	28.2	---	---	---	---	---	---				
8	23.4	22.9	25.7	25.1	29.1	28.1	---	---	---	---	---	---				
9	23.5	23.2	25.8	25.5	28.3	27.0	---	---	---	---	---	---				
10	23.5	23.3	25.8	25.6	27.8	26.5	---	---	---	---	---	---				
11	23.9	23.4	25.9	25.7	28.2	27.6	---	---	---	---	---	---				
12	23.9	22.5	26.1	25.8	28.5	28.1	---	---	---	---	---	---				
13	23.6	22.5	26.3	26.0	28.8	26.5	---	---	---	---	---	---				
14	22.9	21.4	26.4	26.2	27.7	25.8	---	---	---	---	---	---				
15	22.8	20.7	26.8	26.2	27.5	25.8	---	---	---	---	---	---				
16	22.8	20.4	26.6	26.2	27.8	26.1	---	---	---	---	---	---				
17	23.4	22.0	26.9	26.3	28.9	27.4	---	---	---	---	---	---				
18	23.8	22.4	27.0	26.0	---	---	---	---	---	---	---	---				
19	24.3	23.0	27.0	26.3	---	---	---	---	---	---	---	---				
20	24.7	23.2	27.2	26.9	---	---	---	---	---	---	---	---				
21	24.3	23.5	27.4	27.1	---	---	---	---	---	---	---	---				
22	24.0	23.5	27.6	27.3	---	---	---	---	---	---	---	---				
23	24.0	23.6	27.7	27.5	---	---	---	---	---	---	---	---				
24	24.1	23.7	27.9	27.6	---	---	---	---	---	---	---	---				
25	24.0	23.8	27.9	27.7	---	---	---	---	---	---	---	---				
26	24.1	23.9	28.0	27.8	---	---	---	---	---	---	---	---				
27	24.2	24.1	28.0	27.8	---	---	---	---	---	---	---	---				
28	24.5	24.1	28.2	27.9	---	---	---	---	---	---	---	---				
29	24.6	24.4	28.3	28.0	---	---	---	---	---	---	---	---				
30	24.8	24.5	28.4	28.1	---	---	---	---	---	---	---	---				
31	---	---	28.8	28.2	---	---	---	---	---	---	---	---				
MONTH	24.8	20.4	28.8	24.3	---	---	---	---	---	---	---	---				

02305851 CURIOSITY CREEK AT 122ND AVENUE NEAR SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°03'30", long 82°27'41" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.12, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, on upstream side of culvert headwall on 122nd Avenue, 600 ft west of Florida Avenue (Business U.S. Highway 41), 0.25 mi north of Fowler Avenue (State Highway 582), and 2.5 mi northeast of Sulphur Springs.

DRAINAGE AREA.--2.59 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 3.86 ft below National Geodetic Vertical Datum of 1929 (Hillsborough County Engineering Department).

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Rainfall records collected at nearby site 280353082283400 Roy Haynes park Rainfall near Sulphur Springs. Collection, computaion and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	0.51	0.01	0.00	2.6	2.1	0.00	0.00	0.00	2.5	15	25
2	2.1	0.33	0.02	0.00	1.5	2.1	0.00	0.00	0.00	1.8	23	13
3	1.7	0.33	0.01	0.00	1.3	1.9	0.00	0.00	0.00	5.3	19	11
4	1.5	0.23	0.00	0.00	1.2	1.7	0.00	0.00	0.00	4.8	16	11
5	1.3	0.28	0.02	0.00	1.0	1.4	0.00	0.00	0.00	3.2	15	32
6	1.3	1.3	0.02	0.00	0.88	1.3	0.00	0.00	0.00	2.1	12	152
7	1.2	0.90	0.02	0.00	0.80	1.1	0.00	0.00	0.00	1.7	13	49
8	1.1	0.61	0.01	0.00	0.65	1.1	0.00	0.00	e0.50	1.3	14	23
9	0.94	0.48	0.02	e0.30	0.55	0.97	0.00	0.00	0.04	1.1	14	26
10	0.81	0.40	0.02	0.48	0.50	0.86	0.00	0.00	2.0	0.92	11	20
11	0.77	0.33	0.00	0.06	0.46	0.79	e0.03	0.00	2.5	0.71	9.5	16
12	0.76	0.27	0.00	0.01	0.39	0.73	4.6	0.00	0.16	1.1	8.3	16
13	0.79	0.23	0.00	0.00	0.35	0.67	2.9	0.00	0.90	2.2	9.9	16
14	1.0	0.17	1.3	0.00	0.53	0.60	0.97	0.00	3.4	1.2	13	13
15	0.83	0.13	0.44	0.00	1.1	0.54	0.67	0.00	4.3	0.78	13	11
16	0.71	0.12	0.18	0.00	0.64	1.5	0.48	0.00	2.5	1.1	9.0	9.4
17	0.72	0.12	0.14	0.00	0.48	1.2	0.36	0.00	0.70	1.2	7.2	6.9
18	0.71	0.18	0.10	5.5	0.37	0.92	0.33	0.00	0.44	15	6.3	5.1
19	0.62	1.1	0.07	2.2	0.28	0.81	0.25	0.00	0.35	25	5.4	4.2
20	0.57	0.60	0.05	1.3	0.23	0.69	0.19	0.00	0.32	49	4.8	3.5
21	0.51	0.30	0.03	0.92	0.20	0.67	0.16	0.00	0.34	25	5.0	4.6
22	0.45	0.24	0.03	0.79	0.14	0.55	0.11	0.00	0.29	14	5.8	3.8
23	0.39	0.20	0.03	0.56	0.13	0.45	0.13	0.00	0.17	11	6.3	3.3
24	0.32	0.17	0.03	0.47	3.5	0.32	0.10	0.00	0.69	13	25	2.5
25	0.32	0.20	0.02	0.41	16	0.29	0.04	0.00	1.2	15	28	2.5
26	0.35	0.17	0.00	0.32	6.7	0.20	0.00	0.00	2.1	13	33	25
27	0.36	0.10	0.00	5.7	4.1	0.12	0.00	0.00	3.4	11	17	31
28	0.46	0.07	0.00	1.7	3.0	0.07	0.00	0.00	4.0	15	13	18
29	1.1	0.04	0.00	1.1	2.4	0.03	0.00	0.00	3.3	19	11	14
30	1.1	0.03	0.00	1.00	---	0.00	0.00	0.00	2.6	14	9.0	12
31	0.86	---	0.00	1.7	---	0.00	---	0.00	---	11	13	---
TOTAL	28.55	10.14	2.57	24.52	51.98	25.68	11.32	0.00	36.20	283.01	404.5	579.8
MEAN	0.92	0.34	0.08	0.79	1.79	0.83	0.38	0.00	1.21	9.13	13.0	19.3
MAX	2.9	1.3	1.3	5.7	16	2.1	4.6	0.00	4.3	49	33	152
MIN	0.32	0.03	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.71	4.8	2.5
MED	0.79	0.23	0.02	0.30	0.65	0.73	0.01	0.00	0.47	4.8	13	13
AC-FT	57	20	5.1	49	103	51	22	0.00	72	561	802	1,150
CFSM	0.36	0.13	0.03	0.31	0.69	0.32	0.15	0.00	0.47	3.52	5.04	7.46
IN.	0.41	0.15	0.04	0.35	0.75	0.37	0.16	0.00	0.52	4.06	5.81	8.33
*PREC	1.11	2.77	1.06	5.22	---	---	---	2.76	---	---	---	9.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	0.41	0.13	1.09	0.66	0.64	0.64	0.18	0.19	1.98	3.42	6.72	5.93
MAX	0.92	0.34	5.38	2.50	1.79	2.37	0.52	0.94	8.44	9.13	15.7	19.3
(WY)	(2004)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2004)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.60	0.59
(WY)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2000)	(2001)	(2000)

## 02305851 CURIOSITY CREEK AT 122ND AVENUE NEAR SULPHUR SPRINGS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	1,327.69		1,458.27		1.84	
ANNUAL MEAN	3.64		3.98		4.04	
HIGHEST ANNUAL MEAN					0.22	
LOWEST ANNUAL MEAN					0.00	
HIGHEST DAILY MEAN	66	Aug 3	152	Sep 6	152	Sep 6, 2004
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	May 12	0.00	Dec 26	0.00	Oct 24, 1999
MAXIMUM PEAK FLOW			205	Sep 6	205	Sep 6, 2004
MAXIMUM PEAK STAGE			35.15	Sep 6	35.15	Sep 6, 2004
ANNUAL RUNOFF (AC-FT)	2,630		2,890		1,330	
ANNUAL RUNOFF (CFSM)	1.40		1.54		0.710	
ANNUAL RUNOFF (INCHES)	19.07		20.95		9.64	
10 PERCENT EXCEEDS	11		13		4.8	
50 PERCENT EXCEEDS	1.1		0.60		0.00	
90 PERCENT EXCEEDS	0.01		0.00		0.00	

e Estimated

\* Precipitation, total, inches

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°01'15", long 82°27'07" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, on east side of spring pool, 100 ft west of U. S. Highway 41 in Sulphur Springs, and 500 ft upstream from mouth of outlet channel at Hillsborough River.

PERIOD OF RECORD.--1917, 1929, 1930 (one discharge measurement in each year); February 1931 to June 1934 (monthly discharge measurements published as "at Tampa"); 1935, 1945, 1946 (miscellaneous discharge measurements); May 1956 to June 1959 (periodic discharge measurements only); July 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 15, 1959, nonrecording gage at same site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Discharge measurements made in spring run about 300 ft downstream from gage. Flow regulated by operating gates in control at outlet at head of springs. Some diversions at times by pumping from the spring pool into Hillsborough River above and below the dam by the city of Tampa Water Department. Statistics do not include diverted flow. Diversion furnished by City of Tampa Water Department.

REVISED RECORDS.--WRD FL-91-3A: Discharge and diversion published in 1988-90; WDR FL-03-3A: Discharge and diversion published in 1997 and diversion published in 2002.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	35	30	20	31	33	28	23	25	34	43	48
2	43	34	29	20	31	e33	24	22	19	35	44	47
3	43	34	29	20	31	33	23	22	17	35	44	47
4	43	34	29	20	31	33	23	21	17	34	43	46
5	42	e34	30	20	31	33	22	21	17	35	43	48
6	42	e34	29	20	32	33	22	21	24	34	43	54
7	41	34	29	20	32	33	22	21	23	34	43	57
8	41	34	29	20	31	33	27	21	22	34	43	e53
9	41	34	29	20	31	33	27	20	24	34	43	e51
10	41	34	29	27	31	33	34	20	22	34	43	e50
11	41	34	25	24	31	33	33	20	21	34	42	e50
12	41	34	e22	20	31	33	33	20	21	34	43	e51
13	40	33	e21	19	31	33	27	20	23	32	43	e51
14	40	33	e20	18	32	33	25	20	30	27	43	e51
15	39	33	e20	18	32	33	28	19	27	26	44	e51
16	39	33	e20	17	31	33	31	23	25	26	43	e52
17	39	33	20	16	31	33	31	27	23	26	43	e51
18	39	32	25	17	31	33	31	25	28	28	43	e51
19	38	33	24	25	31	33	31	21	31	34	43	e51
20	38	33	20	31	32	33	31	20	31	37	43	e51
21	38	32	19	31	32	33	28	19	31	37	43	e50
22	38	31	19	31	31	33	25	19	31	38	42	e50
23	37	31	20	31	31	33	24	18	31	38	42	e50
24	37	31	20	31	32	33	23	24	31	39	43	e49
25	37	31	19	31	33	33	23	29	32	40	44	e49
26	37	31	19	31	33	33	22	29	32	40	47	e48
27	37	31	19	31	33	33	21	29	34	40	47	e51
28	e37	31	19	31	33	32	24	28	34	41	47	e50
29	e36	30	20	31	33	32	25	28	34	43	46	e50
30	35	30	20	31	---	32	23	28	34	43	46	e49
31	35	---	20	31	---	32	---	28	---	43	46	---
TOTAL	1,218	981	723	753	916	1,019	791	706	794	1,089	1,355	1,507
MEAN	39.3	32.7	23.3	24.3	31.6	32.9	26.4	22.8	26.5	35.1	43.7	50.2
MAX	43	35	30	31	33	33	34	29	34	43	47	57
MIN	35	30	19	16	31	32	21	18	17	26	42	46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2004, BY WATER YEAR (WY)

MEAN	43.2	38.6	37.2	38.1	37.5	37.8	31.4	26.5	29.5	36.5	44.5	47.0
MAX	72.5	65.7	56.0	54.3	61.5	86.6	80.2	61.9	49.4	58.9	110	71.1
(WY)	(1960)	(1960)	(1960)	(1970)	(1964)	(1960)	(1960)	(1960)	(1960)	(1960)	(1960)	(1960)
MIN	16.5	13.7	9.66	9.98	11.5	9.40	4.73	2.49	0.28	2.02	14.5	31.3
(WY)	(1973)	(1973)	(1979)	(1985)	(2001)	(2000)	(1976)	(2000)	(2000)	(2000)	(1977)	(1996)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1960 - 2004

ANNUAL TOTAL	12,762	11,852	
ANNUAL MEAN	35.0	32.4	37.3
HIGHEST ANNUAL MEAN			67.6
LOWEST ANNUAL MEAN			19.4
HIGHEST DAILY MEAN	47	Sep 4	145
LOWEST DAILY MEAN	15	May 16	0.00
ANNUAL SEVEN-DAY MINIMUM	16	May 16	0.00
10 PERCENT EXCEEDS	44		53
50 PERCENT EXCEEDS	35		39
90 PERCENT EXCEEDS	28		12

e Estimated





02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1999 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature sensor located 1.0 ft above the bottom of the pool.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 6,670 microsiemens, Jan. 29, 2002; minimum, 1,780 microsiemens, June 27, 2002.

TEMPERATURE.--Maximum, 25.8°C, Aug. 27, 1999, Aug. 3, 4, 16, Sept. 15, 2000; minimum, 23.9°C, Jan. 16 - Feb. 7, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 4,880 microsiemens, Sept. 16, 17; minimum, 2,270 microsiemens, June 15.

TEMPERATURE.--Maximum, 25.5°C, June 29, Aug. 28; minimum, 24.2°C, Jan. 19, 20, 28, 29.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM OF POOL)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4,310	3,480	4,160	3,730	3,680	3,270	3,770	3,420	3,580	3,550	3,620	3,590
2	4,270	3,940	4,190	3,690	3,640	3,270	3,720	3,430	3,580	3,550	3,650	3,620
3	4,350	3,980	4,130	3,800	3,630	3,280	3,800	3,460	3,600	3,570	3,660	3,630
4	4,340	3,990	4,180	3,720	3,580	3,250	3,720	3,370	3,600	3,570	3,650	3,630
5	4,360	3,950	---	---	3,670	3,360	3,740	3,400	3,600	3,580	3,650	3,620
6	4,350	3,940	---	---	3,680	3,300	3,720	3,350	3,640	3,590	3,650	3,620
7	4,330	4,000	4,180	3,800	3,760	3,380	3,650	3,350	3,650	3,620	3,650	3,610
8	4,360	3,950	4,210	3,860	3,670	3,320	3,580	3,280	3,640	3,560	3,640	3,610
9	4,330	3,810	4,270	3,860	3,660	3,300	3,580	3,320	3,560	3,500	3,620	3,580
10	4,330	4,020	4,220	3,680	3,690	3,360	3,600	3,250	3,510	3,490	3,580	3,530
11	4,420	4,020	4,220	3,790	3,730	3,360	3,580	3,320	3,540	3,510	3,530	3,480
12	4,340	4,010	4,150	3,740	---	---	3,560	3,210	3,550	3,540	3,480	3,400
13	4,390	4,020	4,180	3,780	---	---	3,520	3,170	3,560	3,540	3,400	3,310
14	4,310	3,990	4,240	3,820	---	---	---	---	3,560	3,530	3,310	3,260
15	4,360	4,020	4,130	3,730	---	---	---	---	3,580	3,550	3,260	3,240
16	4,250	3,990	4,200	3,800	---	---	3,600	3,560	3,580	3,560	3,270	3,240
17	4,270	3,940	4,130	3,800	3,760	3,440	3,600	3,590	3,560	3,500	3,310	3,260
18	4,360	3,940	4,170	3,750	3,760	3,480	3,600	3,560	3,500	3,450	3,330	3,290
19	4,370	3,900	4,130	3,670	3,790	3,490	3,600	3,580	3,470	3,440	3,300	3,260
20	4,290	3,810	4,180	3,680	3,790	3,420	3,600	3,560	3,500	3,460	3,260	3,190
21	4,300	3,900	4,060	3,590	3,760	3,470	3,560	3,520	3,550	3,500	3,190	3,180
22	4,260	3,490	3,960	3,550	3,820	3,440	3,540	3,510	3,570	3,540	3,200	3,180
23	4,280	3,810	3,900	3,540	3,800	3,460	3,550	3,520	3,560	3,530	3,200	3,170
24	4,180	3,830	3,860	3,480	3,780	3,500	3,550	3,520	3,560	3,540	3,170	3,100
25	4,150	3,810	3,860	3,470	3,840	3,480	3,560	3,540	3,550	3,530	3,100	3,040
26	4,210	3,740	3,860	3,450	3,810	3,490	3,600	3,560	3,610	3,550	3,040	3,020
27	4,210	3,740	3,760	3,340	3,840	3,470	3,600	3,560	3,620	3,610	3,030	3,010
28	---	---	3,820	3,440	3,830	3,510	3,560	3,530	3,620	3,590	3,030	3,010
29	---	---	3,770	3,390	3,850	3,460	3,530	3,510	3,600	3,580	3,030	3,020
30	---	---	3,750	3,350	3,820	3,490	3,560	3,500	---	---	3,030	3,010
31	4,120	3,760	---	---	3,770	3,480	3,590	3,560	---	---	3,020	3,010
MONTH	---	---	---	---	---	---	---	---	3,650	3,440	3,660	3,010

## 02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (1.0 FT ABOVE BOTTOM OF POOL)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3,020	3,000	2,860	2,840	2,530	2,510	2,520	2,400	3,310	3,210	4,260	4,170
2	3,040	3,010	2,980	2,860	2,520	2,490	2,600	2,520	3,340	3,300	4,190	4,110
3	---	---	3,100	2,980	2,490	2,470	2,690	2,600	3,350	3,330	4,230	4,180
4	---	---	3,150	3,100	2,480	2,460	2,790	2,690	3,350	3,330	4,230	4,190
5	---	---	3,140	3,070	2,480	2,460	2,810	2,760	3,340	3,320	4,210	4,150
6	---	---	3,070	3,010	2,490	2,480	2,800	2,740	3,320	3,300	4,240	4,100
7	---	---	3,010	3,000	2,490	2,480	2,880	2,800	3,320	3,300	4,100	3,960
8	3,000	2,970	3,030	3,000	2,480	2,410	2,910	2,880	3,320	3,300	4,200	3,970
9	2,980	2,960	3,040	3,030	2,420	2,390	2,920	2,910	3,310	3,290	4,350	4,200
10	---	---	3,040	3,030	2,390	2,360	2,920	2,900	3,360	3,310	4,420	4,350
11	---	---	3,040	3,030	2,410	2,350	2,900	2,850	3,420	3,360	4,420	4,360
12	---	---	3,090	3,040	2,440	2,390	2,850	2,810	3,530	3,420	4,480	4,360
13	---	---	3,090	3,050	2,530	2,440	2,830	2,790	3,560	3,530	4,540	4,430
14	---	---	3,050	3,010	2,560	2,390	2,880	2,810	3,590	3,540	4,670	4,510
15	---	---	3,010	2,990	2,390	2,270	2,920	2,870	3,650	3,590	4,810	4,670
16	3,030	2,980	2,990	2,960	2,450	2,280	2,910	2,880	3,710	3,640	4,880	4,800
17	2,980	2,930	2,960	2,930	2,630	2,450	2,910	2,870	3,750	3,710	4,880	4,820
18	2,930	2,900	2,930	2,890	2,740	2,630	2,970	2,890	3,750	3,730	4,860	4,800
19	2,900	2,870	2,890	2,870	2,770	2,740	2,950	2,830	3,790	3,730	4,830	4,730
20	2,880	2,870	2,870	2,850	2,760	2,730	2,830	2,780	3,940	3,790	4,770	4,680
21	2,890	2,860	2,860	2,850	2,730	2,710	2,850	2,780	4,010	3,940	4,720	4,640
22	2,890	2,870	2,850	2,840	2,720	2,710	3,010	2,850	4,030	4,000	4,680	4,650
23	2,940	2,890	2,850	2,840	2,720	2,710	3,100	3,010	4,060	4,020	4,750	4,670
24	2,980	2,940	2,840	2,820	2,710	2,670	3,130	3,100	4,060	4,040	4,790	4,730
25	2,970	2,960	2,820	2,780	2,670	2,620	3,130	3,070	4,060	3,960	4,800	4,740
26	2,960	2,950	2,780	2,710	2,620	2,580	3,090	3,030	3,990	3,890	4,790	4,680
27	2,960	2,920	2,710	2,640	2,620	2,490	3,110	3,090	3,940	3,880	4,680	4,580
28	2,940	2,930	2,640	2,600	2,490	2,360	3,100	3,080	4,190	3,940	4,730	4,590
29	2,930	2,900	2,600	2,590	2,410	2,360	3,130	3,000	4,330	4,190	4,770	4,720
30	2,900	2,860	2,590	2,560	2,400	2,380	3,040	2,960	4,330	4,280	4,760	4,690
31	---	---	2,570	2,530	---	---	3,210	3,040	4,300	4,240	---	---
MONTH	---	---	3,150	2,530	2,770	2,270	3,210	2,400	4,330	3,210	4,880	3,960

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(1.0 FT ABOVE BOTTOM OF POOL)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	25.3	25.2	25.3	25.2	25.1	25.0	24.7	24.6	24.4	24.3	24.5	24.4
2	25.3	25.2	25.3	25.2	25.1	25.0	24.7	24.6	24.4	24.3	24.5	24.4
3	25.3	25.2	25.3	25.2	25.1	25.0	24.7	24.6	24.4	24.3	24.5	24.5
4	25.3	25.2	25.3	25.2	25.1	25.0	24.7	24.6	24.5	24.4	24.5	24.5
5	25.3	25.2	---	---	25.1	25.0	24.7	24.6	24.5	24.4	24.6	24.5
6	25.3	25.2	---	---	25.0	25.0	24.6	24.5	24.5	24.4	24.6	24.5
7	25.3	25.2	25.3	25.2	25.0	24.9	24.6	24.5	24.4	24.4	24.6	24.5
8	25.3	25.2	25.3	25.2	25.0	24.9	24.6	24.5	24.4	24.4	24.6	24.5
9	25.3	25.2	25.3	25.2	25.0	24.9	24.6	24.5	24.5	24.4	24.6	24.5
10	25.3	25.3	25.3	25.2	25.0	24.9	24.5	24.4	24.5	24.4	24.6	24.5
11	25.3	25.3	25.3	25.2	25.0	24.9	24.4	24.3	24.5	24.4	24.6	24.5
12	25.3	25.3	25.3	25.2	---	---	24.6	24.4	24.5	24.4	24.6	24.5
13	25.3	25.3	25.3	25.2	---	---	24.5	24.4	24.5	24.4	24.6	24.5
14	25.3	25.3	25.3	25.2	---	---	24.6	24.4	24.5	24.4	24.6	24.5
15	25.3	25.2	25.3	25.2	---	---	24.6	24.5	24.5	24.4	24.6	24.5
16	25.3	25.2	25.3	25.2	---	---	24.6	24.4	24.5	24.4	24.6	24.5
17	25.3	25.2	25.3	25.2	24.8	24.8	24.5	24.4	24.5	24.4	24.6	24.5
18	25.3	25.2	25.3	25.2	24.9	24.8	24.6	24.4	24.5	24.4	24.6	24.5
19	25.3	25.2	25.2	25.2	24.8	24.7	24.4	24.2	24.5	24.4	24.6	24.5
20	25.3	25.2	25.2	25.1	24.8	24.7	24.4	24.2	24.5	24.4	24.6	24.5
21	25.3	25.2	25.2	25.1	24.8	24.7	24.4	24.3	24.5	24.4	24.6	24.5
22	25.3	25.2	25.2	25.1	24.8	24.7	24.4	24.3	24.5	24.4	24.6	24.5
23	25.3	25.2	25.2	25.1	24.8	24.7	24.4	24.4	24.5	24.4	24.6	24.5
24	25.3	25.2	25.2	25.1	24.8	24.7	24.5	24.4	24.5	24.4	24.6	24.5
25	25.3	25.2	25.2	25.1	24.7	24.7	24.5	24.4	24.4	24.3	24.6	24.5
26	25.3	25.2	25.2	25.1	24.8	24.6	24.5	24.4	24.3	24.3	24.6	24.5
27	25.3	25.2	25.2	25.1	24.7	24.6	24.5	24.3	24.3	24.3	24.6	24.5
28	---	---	25.2	25.0	24.7	24.6	24.3	24.2	24.5	24.3	24.6	24.5
29	---	---	25.1	25.1	24.7	24.6	24.4	24.2	24.5	24.4	24.6	24.5
30	---	---	25.1	25.0	24.7	24.6	24.4	24.3	---	---	24.6	24.5
31	25.3	25.2	---	---	24.7	24.6	24.4	24.3	---	---	24.7	24.5
MONTH	---	---	---	---	---	---	24.7	24.2	24.5	24.3	24.7	24.4
1	24.6	24.5	24.7	24.6	25.1	24.9	25.4	25.3	25.3	25.2	25.4	25.2
2	24.6	24.5	24.7	24.6	25.1	24.9	25.4	25.3	25.2	25.2	25.4	25.3
3	---	---	24.7	24.6	25.1	24.9	25.3	25.2	25.3	25.2	25.4	25.3
4	---	---	24.8	24.6	25.1	24.9	25.3	25.2	25.3	25.2	25.4	25.3
5	---	---	24.8	24.6	25.1	24.9	25.3	25.2	25.3	25.2	25.3	25.2
6	---	---	24.8	24.6	25.1	24.9	25.3	25.2	25.2	25.2	25.3	25.2
7	---	---	24.8	24.6	25.1	24.9	25.3	25.2	25.2	25.1	25.4	25.3
8	24.6	24.5	24.8	24.6	25.2	25.0	25.3	25.2	25.2	25.1	25.4	25.3
9	24.7	24.5	24.8	24.7	25.1	25.0	25.3	25.2	25.3	25.2	25.4	25.3
10	---	---	24.8	24.7	25.2	25.0	25.3	25.2	25.3	25.2	25.4	25.3
11	---	---	24.8	24.7	25.2	25.0	25.3	25.2	25.3	25.2	25.4	25.3
12	---	---	24.9	24.7	25.3	25.1	25.2	25.1	25.3	25.2	25.4	25.3
13	---	---	24.9	24.7	25.3	25.1	25.3	25.2	25.2	25.2	25.3	25.3
14	---	---	24.9	24.7	25.2	25.1	25.3	25.2	25.2	25.2	25.3	25.3
15	---	---	24.9	24.7	25.4	25.2	25.3	25.2	25.3	25.2	25.3	25.3
16	24.6	24.5	24.9	24.7	25.4	25.3	25.3	25.2	25.3	25.2	25.3	25.3
17	24.6	24.5	24.9	24.8	25.4	25.3	25.2	25.2	25.3	25.2	25.3	25.3
18	24.7	24.5	25.0	24.8	25.3	25.2	25.3	25.2	25.3	25.2	25.3	25.3
19	24.7	24.5	25.0	24.8	25.3	25.2	25.3	25.2	25.3	25.2	25.3	25.3
20	24.7	24.5	25.0	24.8	25.3	25.2	25.3	25.3	25.3	25.2	25.3	25.3
21	24.7	24.5	25.0	24.8	25.3	25.2	25.4	25.3	25.3	25.2	25.3	25.3
22	24.7	24.5	25.0	24.8	25.3	25.2	25.4	25.3	25.3	25.2	25.3	25.3
23	24.7	24.6	25.1	24.8	25.3	25.2	25.3	25.2	25.3	25.2	25.3	25.3
24	24.7	24.6	25.0	24.8	25.3	25.2	25.3	25.2	25.3	25.2	25.3	25.3
25	24.7	24.6	25.0	24.8	25.3	25.2	25.3	25.2	25.3	25.2	25.3	25.3
26	24.7	24.6	25.0	24.9	25.4	25.2	25.4	25.2	25.4	25.2	25.3	25.3
27	24.6	24.6	25.0	24.9	25.4	25.2	25.3	25.2	25.4	25.3	25.3	25.3
28	24.7	24.5	25.0	24.9	25.4	25.3	25.3	25.2	25.5	25.4	25.4	25.3
29	24.7	24.6	25.0	24.9	25.5	25.3	25.4	25.2	25.4	25.3	25.4	25.3
30	24.7	24.6	25.0	24.9	25.4	25.3	25.4	25.3	25.3	25.3	25.4	25.3
31	---	---	25.0	24.9	---	---	25.3	25.2	25.3	25.2	---	---
MONTH	---	---	25.1	24.6	25.5	24.9	25.4	25.1	25.5	25.1	25.4	25.2

023060003 SULPHUR SPRINGS RUN AT SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°01'15", long 82°27'09" (1927 North American datum), in NE 1/4 sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, about 300 feet downstream from the Sulphur Springs Pool, and 200 feet upstream from confluence with Hillsborough River.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1999 to June 2004 (gage heights only); July to September 2004 (residual daily mean discharge).

GAGE.--Water-stage and velocity recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Residual discharge records fair to poor. Gage is affected by tidally influenced Hillsborough River. During periods of minimum gage heights, gage may have been isolated from the spring run. Actual minimum gage heights may be lower than reported. Maximum and minimum extremes represent gage height extremes not tidal high-high and low-low. Instantaneous discharge computed from index-velocity linear regression relation and gage height-to-area relation. During periods of gage heights over the weir, the index-velocity relation probably does not work well because the velocity distribution over the weir is unknown. A ninth-order Butterworth low-pass filter is used to yield the residual discharges for the Sulphur Springs Run station. The residual discharges are not total "freshwater" flow from the springs, but are a combination of freshwater flow and water storage caused by higher or lower Hillsborough River mean water levels. The residual discharge is used to estimate mean and median discharge values.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily mean residual discharge, 56 ft<sup>3</sup>/s (estimated), September 8, 9, 2004; maximum gage height, 6.58 ft, Sept. 6, 2004; minimum daily mean residual discharge, 39 ft<sup>3</sup>/s, Aug. 10, 17-19, 21-23, 2004; minimum gage height, 0.44 ft below NGVD, several days in 2000.

EXTREMES FOR CURRENT PERIOD.--Maximum daily mean residual discharge, 56 ft<sup>3</sup>/s (estimated), September 8, 9; maximum gage height, 6.58 ft, Sept. 6, minimum daily mean residual discharge, 39 ft<sup>3</sup>/s, Aug. 10, 17-19, 21-23; minimum gage height, 0.07 ft below NGVD, June 6.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	40	43
2	---	---	---	---	---	---	---	---	---	---	40	42
3	---	---	---	---	---	---	---	---	---	---	40	42
4	---	---	---	---	---	---	---	---	---	---	41	43
5	---	---	---	---	---	---	---	---	---	---	40	41
6	---	---	---	---	---	---	---	---	---	---	40	49
7	---	---	---	---	---	---	---	---	---	---	40	53
8	---	---	---	---	---	---	---	---	---	---	41	e56
9	---	---	---	---	---	---	---	---	---	---	40	e56
10	---	---	---	---	---	---	---	---	---	---	39	e50
11	---	---	---	---	---	---	---	---	---	---	40	e50
12	---	---	---	---	---	---	---	---	---	---	40	e50
13	---	---	---	---	---	---	---	---	---	---	40	e50
14	---	---	---	---	---	---	---	---	---	---	40	e50
15	---	---	---	---	---	---	---	---	---	---	40	e50
16	---	---	---	---	---	---	---	---	---	---	40	51
17	---	---	---	---	---	---	---	---	---	---	39	51
18	---	---	---	---	---	---	---	---	---	---	39	51
19	---	---	---	---	---	---	---	---	---	---	39	51
20	---	---	---	---	---	---	---	---	---	---	40	51
21	---	---	---	---	---	---	---	---	---	---	39	49
22	---	---	---	---	---	---	---	---	---	---	39	48
23	---	---	---	---	---	---	---	---	---	---	39	48
24	---	---	---	---	---	---	---	---	---	---	40	47
25	---	---	---	---	---	---	---	---	---	---	41	48
26	---	---	---	---	---	---	---	---	---	---	43	48
27	---	---	---	---	---	---	---	---	---	---	42	50
28	---	---	---	---	---	---	---	---	---	e40	42	48
29	---	---	---	---	---	---	---	---	---	e40	42	48
30	---	---	---	---	---	---	---	---	---	40	42	48
31	---	---	---	---	---	---	---	---	---	40	42	---
MEAN	---	---	---	---	---	---	---	---	---	---	40.3	48.7
MAX	---	---	---	---	---	---	---	---	---	---	43	56
MIN	---	---	---	---	---	---	---	---	---	---	39	41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	---	---	40.3	48.7
MAX	---	---	---	---	---	---	---	---	---	---	40.3	48.7
(WY)	---	---	---	---	---	---	---	---	---	---	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	---	---	40.3	48.7
(WY)	---	---	---	---	---	---	---	---	---	---	(2004)	(2004)

SUMMARY STATISTICS

WATER YEARS 2003 - 2004

HIGHEST DAILY MEAN	e56	Sep 8, 2004
LOWEST DAILY MEAN	39	Aug 10, 2004
ANNUAL SEVEN-DAY MINIMUM	39	Aug 17, 2004

e Estimated



## 023060005 SULPHUR SPRINGS MOUTH AT SULPHUR SPRINGS, FL.

## WATER-QUALITY RECORDS

LOCATION.--Lat 28° 01'15", long 82° 27'12" (1927 North American datum), in NE $\frac{1}{4}$  sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, about 500 feet downstream from the Sulphur Springs Pool, and at confluence with Hillsborough River.

PERIOD OF RECORD.--May 1999 to September 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature sensor located near the bottom.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 39,000 microsiemens, Dec. 6, 2000; minimum, 1,080 microsiemens, Sept. 7, 2000.

TEMPERATURE.--Maximum, 31.8°C, July 12, 2000; minimum, 15.2°C, Jan. 5, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 25,200 microsiemens, Jan. 18; minimum, 1,530 microsiemens, Mar. 23, 24.

TEMPERATURE.--Maximum, 29.1°C, June 4; minimum, 18.4°C, Jan. 18.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4,080	3,980	3,900	3,570	3,950	3,450	11,600	3,280	3,580	3,410	3,610	3,520
2	4,110	4,020	3,920	3,570	4,100	3,420	11,400	3,590	3,550	3,390	3,650	3,580
3	4,100	3,970	3,960	3,170	17,600	3,390	19,700	3,620	3,580	2,850	3,660	3,540
4	4,110	4,030	4,040	3,240	17,900	3,420	19,300	3,570	3,570	2,010	3,650	3,400
5	4,120	3,420	3,940	3,120	17,600	3,480	18,600	3,570	3,570	3,410	3,640	3,550
6	4,120	3,560	3,940	3,290	16,500	1,750	17,600	3,340	3,590	3,170	3,640	3,540
7	4,120	2,900	3,940	3,230	19,900	1,720	13,500	3,490	3,610	3,310	3,640	3,490
8	4,120	3,460	3,960	3,430	22,100	3,430	18,300	2,690	3,610	1,800	3,630	3,530
9	4,140	3,750	3,980	3,060	23,300	3,420	22,400	3,460	3,560	3,090	3,630	3,490
10	4,160	3,200	3,960	3,130	24,600	3,520	19,700	1,720	3,500	1,920	3,590	1,930
11	4,170	3,900	3,920	2,900	14,200	2,430	4,300	1,700	3,510	2,380	3,530	1,760
12	4,170	4,080	3,820	3,270	20,800	3,350	14,700	3,410	3,510	2,470	3,480	3,000
13	4,150	3,690	5,680	3,290	19,400	3,390	18,600	3,410	3,520	2,680	3,410	3,190
14	4,150	3,930	3,920	3,110	23,400	3,340	19,400	3,310	3,520	3,020	3,320	3,070
15	4,140	2,990	4,890	3,240	6,360	2,380	20,100	3,490	3,580	3,390	3,270	2,520
16	4,100	3,010	4,340	3,490	18,200	3,610	24,800	3,550	3,610	1,770	3,280	2,460
17	4,070	3,260	3,850	3,020	9,500	3,650	24,300	3,580	3,580	1,760	3,310	2,910
18	4,090	3,240	10,000	3,100	18,400	3,600	25,200	1,710	3,530	1,700	3,340	3,110
19	4,090	3,090	4,590	3,350	11,900	3,540	6,470	3,220	3,480	1,680	3,320	2,400
20	4,050	3,190	3,870	3,500	6,620	3,250	3,620	1,940	3,520	2,370	3,260	3,000
21	4,010	3,160	3,840	3,240	15,100	3,480	3,570	1,830	3,570	2,120	3,240	2,350
22	4,040	2,820	3,580	3,360	17,300	3,380	3,550	1,910	3,580	2,540	3,250	1,570
23	4,020	3,220	6,520	3,360	18,700	3,500	3,560	1,890	3,570	2,550	3,240	1,530
24	4,000	2,540	7,920	3,350	19,500	1,770	3,550	3,060	3,550	2,500	3,150	1,530
25	3,970	3,020	6,740	3,370	14,100	3,210	3,540	2,680	3,520	2,870	3,130	2,050
26	3,940	3,290	8,690	3,360	10,600	2,030	3,550	2,470	3,550	3,420	3,070	1,950
27	3,970	3,540	12,600	3,330	9,230	3,590	3,550	2,550	3,620	3,490	3,060	2,320
28	3,980	3,820	12,600	3,350	11,800	3,670	3,540	3,160	3,620	3,520	3,060	2,540
29	3,950	3,860	3,560	1,720	15,200	3,620	3,550	3,200	3,590	3,500	3,060	2,850
30	3,920	3,260	3,740	3,340	7,550	3,580	3,550	3,370	---	---	3,190	2,960
31	3,910	3,010	---	---	7,730	3,560	3,560	3,350	---	---	3,560	3,020
MONTH	4,170	2,540	12,600	1,720	24,600	1,720	25,200	1,700	3,620	1,680	3,660	1,530

## 023060005 SULPHUR SPRINGS MOUTH AT SULPHUR SPRINGS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9,230	2,990	11,100	2,680	13,800	2,320	2,480	2,220	3,240	3,040	4,110	3,820
2	9,220	3,000	11,600	2,720	12,500	2,320	2,600	2,480	3,270	3,200	4,040	3,930
3	12,700	3,060	8,040	2,580	13,300	2,320	2,680	2,570	3,290	3,140	4,090	3,970
4	10,500	3,050	7,590	2,940	14,800	2,180	3,080	2,550	3,290	2,800	4,080	3,960
5	10,300	2,980	8,950	2,900	15,700	2,310	2,810	2,740	3,560	3,190	4,020	3,450
6	11,400	2,960	9,050	2,840	11,100	2,240	2,770	2,500	3,230	3,160	4,030	3,590
7	10,400	2,900	11,500	2,840	14,200	2,350	2,900	2,520	3,240	2,760	3,960	3,820
8	9,380	2,870	13,900	2,750	14,300	2,280	2,700	2,490	3,250	2,830	4,040	3,830
9	10,800	2,860	15,500	2,750	6,310	2,150	2,690	2,570	3,240	3,140	4,210	3,570
10	10,500	2,850	18,200	2,870	2,530	2,090	2,700	2,480	3,300	3,240	4,290	3,910
11	11,500	2,840	12,000	2,870	2,580	2,240	2,700	2,650	3,350	3,300	4,260	3,640
12	7,310	1,950	13,700	2,870	5,330	2,280	3,630	2,470	3,480	2,760	4,350	3,170
13	4,010	2,800	11,000	2,880	7,200	1,890	2,650	2,580	3,520	3,070	4,400	3,580
14	2,920	2,650	11,300	2,840	2,580	2,290	2,700	2,470	3,500	2,690	4,520	4,330
15	2,940	2,510	13,300	2,820	2,300	2,050	2,750	2,460	3,560	3,500	4,670	4,430
16	2,970	2,840	11,400	2,420	2,330	2,180	2,730	2,100	3,620	3,540	4,720	4,630
17	2,870	2,750	11,300	2,690	5,140	2,330	2,740	2,380	3,660	3,500	4,730	4,630
18	2,830	2,770	9,410	2,700	5,900	2,520	2,810	1,930	3,660	3,600	4,720	4,470
19	2,790	2,600	10,500	2,680	2,670	2,550	2,800	2,370	3,690	3,640	---	---
20	2,770	2,430	11,400	2,670	2,660	2,520	2,680	2,160	3,830	3,680	---	---
21	2,780	2,660	15,600	2,550	2,630	2,430	2,700	2,580	3,910	3,830	4,560	4,440
22	2,870	1,950	18,600	2,650	2,630	2,490	2,840	2,670	3,930	3,870	4,570	4,440
23	3,070	1,950	17,500	2,640	2,630	2,510	2,950	2,800	3,950	3,660	4,640	4,500
24	7,380	2,810	17,800	2,620	2,620	2,100	2,990	2,490	3,950	3,160	4,700	4,540
25	9,260	2,840	9,140	2,570	2,590	2,540	3,000	2,910	3,940	2,430	4,710	4,580
26	4,310	2,820	5,570	2,490	2,540	2,260	2,960	2,720	3,870	3,770	4,700	3,980
27	2,990	2,800	5,790	2,420	2,550	2,440	2,990	2,920	3,810	3,770	4,600	3,990
28	10,700	2,720	8,220	2,400	2,440	2,080	3,000	2,120	4,050	3,800	4,640	4,480
29	5,730	2,510	8,260	2,380	2,350	1,920	3,010	2,680	4,180	4,050	4,670	4,590
30	13,300	2,690	12,900	2,370	2,360	1,980	2,960	2,850	4,180	4,040	4,690	4,550
31	---	---	10,600	2,240	---	---	3,140	2,920	4,160	2,660	---	---
MONTH	13,300	1,950	18,600	2,240	15,700	1,890	3,630	1,930	4,180	2,430	---	---

## 023060005 SULPHUR SPRINGS MOUTH AT SULPHUR SPRINGS, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.4	25.1	25.5	25.0	25.2	23.9	24.9	22.3	24.3	23.7	24.5	24.0
2	25.4	25.1	25.6	24.9	25.1	24.5	24.7	22.1	24.5	23.6	24.7	24.0
3	25.7	25.1	25.4	24.7	25.1	23.2	24.6	21.0	24.5	23.1	24.7	24.1
4	25.7	25.1	25.5	25.1	25.3	22.9	24.7	21.1	24.7	23.9	24.7	23.9
5	25.7	25.1	25.6	24.9	25.1	22.9	24.8	21.5	24.8	24.0	24.9	24.2
6	25.7	25.1	25.5	25.1	24.8	23.1	24.8	21.6	24.8	24.0	25.0	24.2
7	25.7	25.1	25.7	25.1	25.0	22.3	24.3	22.1	24.4	22.9	24.8	24.2
8	25.7	25.1	25.8	25.1	25.0	22.0	24.6	20.6	24.3	21.4	25.1	23.9
9	25.7	25.2	25.6	24.9	25.1	21.4	24.7	20.4	25.1	23.3	24.8	24.0
10	25.7	25.2	25.7	24.7	25.1	21.3	24.0	20.3	24.8	21.6	24.8	23.8
11	25.6	25.2	25.8	24.9	24.9	21.3	24.3	23.5	24.8	22.1	24.9	23.7
12	25.6	25.2	25.7	25.0	25.2	21.1	24.9	20.6	24.7	22.3	25.0	24.0
13	25.9	25.2	25.6	24.7	24.9	21.0	24.8	20.2	24.7	23.6	25.0	24.0
14	25.7	25.2	25.6	24.3	24.9	20.9	24.7	19.9	24.4	23.5	25.0	24.1
15	26.0	25.0	25.5	24.8	24.8	23.4	24.4	19.7	24.6	23.8	24.8	23.5
16	26.0	25.0	25.6	24.8	24.9	21.0	24.5	19.8	24.6	22.4	24.7	23.6
17	25.5	25.1	25.5	24.5	24.6	22.2	24.1	19.4	24.4	22.4	24.9	24.1
18	25.7	25.0	25.5	24.6	24.8	21.0	24.3	18.4	24.8	23.5	25.0	24.0
19	25.7	25.1	25.2	24.2	24.6	21.3	24.5	20.0	24.7	23.6	25.1	23.9
20	25.5	25.1	25.3	24.2	24.5	22.6	24.3	22.8	24.5	21.5	25.0	24.2
21	25.6	25.0	25.4	24.0	24.6	19.4	24.5	23.1	24.8	21.4	25.0	23.6
22	25.6	24.8	25.4	24.7	24.8	19.3	24.7	22.8	24.8	22.9	25.0	23.6
23	25.6	24.8	25.5	23.9	24.9	19.2	24.7	21.7	24.8	22.4	25.0	23.5
24	25.7	24.5	25.4	23.8	25.0	19.3	24.8	23.4	24.5	23.2	25.0	23.8
25	25.5	25.0	25.2	24.0	24.6	19.7	24.6	22.6	24.5	22.8	24.7	22.3
26	25.9	25.1	25.7	23.6	25.0	20.0	24.6	22.2	24.5	23.9	25.0	24.1
27	25.9	25.1	25.5	23.8	25.0	20.5	24.5	22.4	24.0	23.7	25.0	23.3
28	25.3	25.1	25.5	24.1	24.9	20.1	24.4	22.6	24.6	23.6	25.2	23.8
29	25.8	25.0	25.1	24.4	24.8	20.1	24.4	23.3	24.6	23.8	25.1	24.1
30	25.8	24.9	25.3	24.2	24.8	21.7	24.2	23.6	---	---	25.1	23.9
31	25.7	24.9	---	---	24.8	22.7	24.2	23.3	---	---	25.1	24.1
MONTH	26.0	24.5	25.8	23.6	25.3	19.2	24.9	18.4	25.1	21.4	25.2	22.3
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.0	23.2	26.2	24.4	28.4	24.8	26.1	25.2	25.7	25.1	26.0	25.2
2	25.1	22.9	26.4	24.4	28.8	24.8	26.1	25.1	25.6	25.1	25.9	25.2
3	25.1	22.8	25.0	24.0	29.0	24.8	26.3	25.1	25.8	25.1	25.9	25.3
4	25.0	22.7	25.8	24.0	29.1	24.7	26.9	25.1	25.7	25.1	25.8	25.2
5	25.0	22.5	25.7	24.2	28.9	24.7	26.0	25.1	25.8	25.1	25.3	24.9
6	25.2	22.3	25.9	24.2	29.0	24.7	26.7	25.2	25.8	25.1	25.3	25.2
7	25.0	22.7	25.8	24.1	28.3	24.8	26.2	25.1	25.7	25.1	25.7	25.2
8	24.9	23.1	26.1	24.3	28.6	24.8	26.2	25.1	25.9	25.1	25.7	25.2
9	25.3	24.1	26.0	24.2	27.7	24.8	26.0	25.1	25.8	25.1	25.8	25.3
10	25.5	24.2	25.8	24.4	26.6	24.9	26.0	25.1	25.8	25.1	25.7	25.3
11	25.1	24.0	26.2	24.5	26.1	24.9	26.3	25.1	25.7	25.1	25.8	25.2
12	24.9	22.6	26.6	24.4	26.9	25.0	26.6	25.1	25.8	25.1	26.1	25.2
13	24.8	23.3	26.4	24.5	27.8	25.0	26.0	25.1	25.5	25.0	26.0	25.2
14	24.7	23.7	26.0	24.5	26.4	25.0	26.3	25.1	25.5	25.1	25.4	25.2
15	25.1	23.3	26.5	24.5	26.3	25.1	26.3	25.1	25.8	25.1	25.5	25.2
16	25.2	24.0	26.3	24.6	26.2	25.2	26.2	25.0	25.7	25.1	25.7	25.2
17	25.1	24.1	26.5	24.6	27.6	25.1	25.8	25.1	25.9	25.1	25.7	25.2
18	25.2	24.2	26.8	24.5	27.2	25.1	25.7	25.1	25.8	25.1	25.9	25.2
19	25.2	24.2	26.9	24.6	26.7	25.1	25.6	25.1	25.8	25.1	---	---
20	25.2	24.2	27.4	24.5	26.5	25.1	25.4	25.2	25.6	25.1	---	---
21	25.2	24.2	27.6	24.6	26.4	25.1	26.1	25.2	25.7	25.1	25.6	25.2
22	25.5	24.2	28.1	24.6	26.5	25.1	26.0	25.2	25.8	25.1	25.7	25.1
23	25.6	24.2	28.2	24.6	26.4	25.1	25.8	25.2	25.7	25.1	25.7	25.1
24	25.5	24.2	28.2	24.6	26.2	24.9	26.0	25.1	25.7	25.1	25.6	25.1
25	25.3	24.2	26.9	24.6	26.1	25.1	25.9	25.1	25.8	25.0	25.5	25.2
26	25.7	24.4	26.0	24.7	26.2	24.6	25.9	25.2	25.8	25.1	25.4	25.0
27	24.8	24.2	26.2	24.7	26.2	25.2	25.7	25.2	25.8	25.2	25.6	25.2
28	25.4	23.9	26.7	24.7	25.7	24.8	26.7	25.1	25.9	25.3	25.7	25.2
29	25.0	24.1	27.1	24.7	26.1	25.2	25.8	25.2	25.9	25.3	25.8	25.2
30	25.6	24.4	27.9	24.8	26.5	25.2	26.0	25.2	25.6	25.2	25.8	25.2
31	---	---	28.2	24.8	---	---	25.8	25.2	25.9	24.8	---	---
MONTH	25.7	22.3	28.2	24.0	29.1	24.6	26.9	25.0	25.9	24.8	---	---



023060013 HILLSBOROUGH RIVER AT I-275 AT SULPHUR SPRINGS, FL.

WATER-QUALITY RECORDS

LOCATION.--Lat 28° 01'12", long 82° 27'18" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, 1,300 feet downstream from bridge, 1,300 feet west of U.S. Highway 41 in Sulphur Springs, and 2.25 mi downstream from Hillsborough River Dam.

DRAINAGE AREA.--637 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1999 to August 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface and 1.0 ft above the bottom.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 35,700 microsiemens, Jan. 4, 2001, bottom sensor maximum, 40,300 microsiemens, May 18, 2001; top sensor minimum, 170 microsiemens, Dec. 15, 2002; bottom sensor minimum, 177 microsiemens, Dec. 24, 2002.

TEMPERATURE.--Top sensor maximum, 32.0°C, Aug. 6, 2000; bottom sensor maximum, 30.9°C, Aug. 10, 11, 12, 2000; top sensor minimum, 12.4°C, Jan. 25, 2003; bottom sensor minimum, 12.0°C, Jan. 26, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 26,600 microsiemens, Dec. 3; bottom sensor maximum, 29,400 microsiemens, Dec. 3, 4; top sensor minimum, 260 microsiemens, July 24; bottom sensor minimum, 229 microsiemens, Aug. 9.

TEMPERATURE.--Top sensor maximum, 31.5°C, June 23; bottom sensor maximum, 29.7°C, June 1; top sensor minimum, 14.9°C, Jan. 24; bottom sensor minimum, 14.9°C, Jan. 24.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD OCTOBER 2003 TO AUGUST 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	---	---	4,520	1,450	20,000	2,740	22,100	5,750	1,640	560	800	290
2	---	---	11,900	1,840	24,100	4,400	22,600	6,000	1,450	560	610	280
3	---	---	17,300	2,190	26,600	4,360	23,200	6,420	1,750	630	830	290
4	---	---	18,500	2,700	26,300	6,440	23,800	7,030	1,520	590	790	330
5	---	---	9,800	2,420	25,800	5,520	23,600	7,480	1,750	630	630	390
6	---	---	---	---	25,500	7,530	22,900	7,480	1,300	460	720	390
7	---	---	---	---	24,900	7,680	21,800	6,490	1,320	460	1,220	410
8	---	---	---	---	24,900	7,790	21,800	7,870	2,050	630	1,220	490
9	---	---	---	---	25,200	7,840	22,300	9,080	1,960	650	1,630	460
10	---	---	---	---	25,900	9,080	21,800	7,390	2,560	710	1,990	540
11	---	---	---	---	21,900	7,660	19,900	5,390	2,320	710	1,910	520
12	---	---	15,400	1,910	24,000	7,580	21,600	8,670	2,380	710	2,050	500
13	---	---	19,700	2,170	24,100	9,590	22,900	10,100	2,010	720	1,600	470
14	---	---	20,900	1,930	26,100	8,690	23,700	10,400	2,270	550	2,080	530
15	---	---	22,300	2,910	19,300	5,970	24,400	11,200	1,810	650	2,530	720
16	---	---	23,300	2,530	22,200	7,630	25,400	9,680	3,590	700	1,600	270
17	---	---	22,600	2,330	21,800	8,190	25,600	7,620	9,290	1,380	2,100	600
18	---	---	---	---	23,500	6,740	25,200	6,010	5,700	1,190	1,970	490
19	---	---	---	---	21,200	5,420	9,460	2,290	2,900	1,190	1,920	410
20	---	---	---	---	21,300	4,530	2,680	880	5,270	1,250	1,610	510
21	16,800	1,520	---	---	21,500	3,720	2,470	980	3,250	1,400	1,690	510
22	7,260	1,530	14,700	3,310	22,200	3,720	2,390	1,070	2,360	830	1,820	580
23	6,600	1,880	13,400	3,250	22,200	3,700	2,050	930	2,800	850	1,950	520
24	---	---	14,000	3,440	22,200	4,180	1,940	800	2,480	430	1,710	500
25	---	---	12,600	3,240	19,800	4,190	1,870	690	1,430	440	1,710	540
26	5,670	1,120	14,500	3,210	18,100	3,730	1,700	640	840	500	1,550	480
27	3,890	910	16,400	3,440	19,500	3,490	2,330	510	820	360	1,760	560
28	3,860	850	17,600	4,210	19,800	3,870	1,590	690	780	380	2,560	600
29	3,150	640	7,650	3,670	21,200	4,370	1,620	620	710	330	15,300	840
30	2,880	1,170	14,400	3,780	18,600	6,870	1,460	670	---	---	24,300	1,510
31	3,570	1,160	---	---	20,400	6,420	1,360	710	---	---	26,400	2,590
MONTH	---	---	---	---	26,600	2,740	25,600	510	9,290	330	26,400	270

023060013 HILLSBOROUGH RIVER AT I-275 AT SULPHUR SPRINGS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD OCTOBER 2003 TO AUGUST 2004  
(NEAR SURFACE)

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	26,400	3,850	17,600	6,690	19,600	6,930	6,060	1,170	560	310	---	---
2	22,600	3,940	16,800	9,030	18,000	5,910	10,400	1,360	560	350	---	---
3	23,400	4,180	13,200	5,860	15,800	4,880	12,400	1,900	810	360	---	---
4	18,800	5,460	10,600	5,190	18,800	4,820	10,600	1,990	530	360	---	---
5	15,000	5,890	11,100	4,980	19,600	5,440	9,420	2,000	550	370	---	---
6	14,000	6,220	12,500	4,890	18,200	5,340	8,140	1,940	540	340	---	---
7	13,200	6,350	16,100	4,890	12,600	6,350	6,490	2,080	470	290	---	---
8	12,900	5,910	19,200	4,620	---	---	9,660	2,280	470	300	---	---
9	15,200	5,650	21,000	5,230	---	---	5,770	2,340	430	300	---	---
10	16,600	5,530	22,500	5,700	---	---	10,600	1,920	---	---	---	---
11	18,000	5,410	22,500	6,020	---	---	5,610	1,810	---	---	---	---
12	10,000	4,440	21,800	7,050	---	---	8,080	980	---	---	---	---
13	5,280	3,980	22,200	7,710	---	---	2,560	460	---	---	---	---
14	4,230	2,880	18,900	8,460	---	---	1,190	540	---	---	---	---
15	3,060	1,460	17,000	8,910	---	---	1,580	610	---	---	---	---
16	2,010	520	15,300	7,110	---	---	2,390	630	---	---	---	---
17	1,950	570	14,200	7,060	---	---	1,740	610	---	---	---	---
18	1,940	520	12,600	6,620	---	---	1,280	520	---	---	---	---
19	1,930	530	15,000	6,290	---	---	780	350	---	---	---	---
20	2,730	900	17,000	6,260	---	---	530	360	---	---	---	---
21	5,730	1,260	20,200	6,470	---	---	520	370	---	---	---	---
22	7,030	1,520	22,700	7,120	1,600	510	530	330	---	---	---	---
23	11,100	1,670	23,100	7,190	1,870	500	420	320	---	---	---	---
24	16,100	2,300	24,100	7,060	1,250	400	420	260	---	---	---	---
25	17,100	3,170	24,500	7,250	---	---	440	320	---	---	---	---
26	15,400	3,990	24,800	6,770	---	---	390	290	---	---	---	---
27	16,700	4,460	25,600	6,570	1,350	453	500	300	---	---	---	---
28	21,100	4,150	25,700	6,870	---	---	520	310	---	---	---	---
29	20,500	4,970	24,700	6,410	---	---	610	310	---	---	---	---
30	19,500	6,880	23,800	6,460	2,110	870	560	310	---	---	---	---
31	---	---	22,500	6,550	---	---	550	320	---	---	---	---
MONTH	26,400	520	25,700	4,620	---	---	12,400	260	---	---	---	---



023060013 HILLSBOROUGH RIVER AT I-275 AT SULPHUR SPRINGS, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD OCTOBER 2003 TO AUGUST 2004  
(NEAR SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	25.3	24.8	23.5	19.6	21.8	20.1	19.4	16.1	18.4	17.2
2	---	---	25.6	24.6	23.4	19.5	21.9	20.1	19.1	16.4	18.5	16.7
3	---	---	25.9	24.5	23.0	19.7	21.9	20.2	19.9	16.8	19.0	17.3
4	---	---	25.8	24.7	23.3	19.9	22.0	20.2	19.5	16.6	19.9	18.0
5	---	---	25.8	24.7	23.3	20.6	22.5	20.2	20.8	18.2	20.6	19.2
6	---	---	---	---	22.9	20.4	22.6	20.6	20.4	18.6	21.5	20.1
7	---	---	---	---	22.4	19.1	21.5	20.2	20.5	18.1	22.1	21.2
8	---	---	---	---	22.1	18.8	20.6	18.7	20.9	17.4	22.5	20.3
9	---	---	---	---	22.0	19.0	20.9	18.7	20.5	17.1	22.2	20.2
10	---	---	---	---	22.1	19.5	20.8	19.4	22.7	18.1	22.9	20.0
11	---	---	---	---	21.9	20.0	22.6	17.7	22.8	19.2	22.4	19.5
12	---	---	25.5	24.2	21.4	19.0	20.2	17.9	23.2	19.5	22.8	19.5
13	---	---	25.4	24.2	21.2	19.0	20.1	18.0	22.3	20.1	22.0	19.4
14	---	---	25.2	22.9	21.4	20.3	19.9	18.0	22.9	20.7	23.6	20.4
15	---	---	25.1	22.3	21.6	19.1	19.9	18.4	22.0	20.5	23.7	21.4
16	---	---	25.1	22.9	21.2	19.3	20.2	18.1	22.7	18.8	22.6	20.4
17	---	---	25.0	23.2	21.6	20.3	20.0	18.3	22.6	19.0	23.8	20.9
18	---	---	---	---	21.1	18.5	20.3	17.8	22.5	17.9	23.1	19.6
19	---	---	---	---	21.3	18.4	21.0	17.3	21.3	17.5	23.6	20.9
20	---	---	---	---	20.8	16.8	20.7	16.2	20.5	17.2	23.3	21.0
21	26.4	24.8	---	---	20.3	15.9	20.4	15.8	22.4	18.2	23.7	21.8
22	26.0	24.6	23.9	21.3	20.5	16.2	20.1	15.4	22.7	18.7	23.6	20.8
23	25.6	24.6	23.7	21.5	19.9	17.3	19.4	15.1	23.5	19.5	23.5	20.6
24	---	---	23.7	21.9	20.5	18.2	19.2	14.9	22.0	19.7	23.0	20.3
25	---	---	23.7	22.5	20.7	18.3	19.9	15.7	21.1	19.0	22.9	20.8
26	26.1	24.8	24.6	22.4	20.3	17.4	19.6	16.7	20.7	19.4	23.4	20.7
27	26.3	25.2	24.7	22.7	20.6	17.6	22.0	17.7	19.7	18.0	23.8	21.6
28	25.9	25.3	24.5	22.9	20.5	18.0	19.1	16.6	18.8	17.3	24.4	21.9
29	26.1	24.9	23.6	21.8	20.7	18.9	19.2	15.6	18.8	17.3	24.6	21.9
30	25.6	24.2	23.2	19.5	21.1	19.4	18.9	16.5	---	---	24.2	21.7
31	25.5	24.3	---	---	22.0	19.7	18.5	16.7	---	---	24.6	21.9
MONTH	---	---	---	---	23.5	15.9	22.6	14.9	23.5	16.1	24.6	16.7
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.7	21.8	26.6	24.7	29.6	27.9	28.8	26.4	28.4	27.7	---	---
2	23.2	21.3	26.5	25.3	29.7	28.2	28.8	26.4	27.9	27.5	---	---
3	23.5	21.0	26.1	24.4	29.4	27.4	28.7	26.3	28.2	27.4	---	---
4	23.7	21.1	26.0	24.1	29.4	27.3	28.6	26.1	28.2	27.6	---	---
5	23.7	21.3	26.1	24.2	29.1	27.4	28.6	26.3	28.1	27.6	---	---
6	23.7	21.5	25.8	24.1	29.1	27.0	29.0	26.3	28.9	27.8	---	---
7	23.8	22.0	25.9	24.3	28.3	27.1	29.0	26.3	28.8	27.6	---	---
8	24.1	22.8	26.1	24.5	---	---	28.7	26.0	27.7	27.2	---	---
9	24.3	23.2	26.1	24.8	---	---	29.4	26.3	28.2	26.8	---	---
10	24.9	23.2	25.8	24.7	---	---	30.6	26.1	---	---	---	---
11	24.2	23.1	26.1	25.0	---	---	31.3	26.7	---	---	---	---
12	23.9	22.0	26.7	25.1	---	---	30.5	27.0	---	---	---	---
13	23.5	22.0	27.2	25.5	---	---	30.6	26.5	---	---	---	---
14	23.6	21.8	27.2	25.5	---	---	30.3	28.1	---	---	---	---
15	23.8	20.8	27.3	25.7	---	---	30.0	28.1	---	---	---	---
16	24.1	20.6	26.8	25.7	---	---	29.6	27.6	---	---	---	---
17	24.5	22.0	27.4	25.2	---	---	28.9	27.4	---	---	---	---
18	24.8	22.6	27.3	25.5	---	---	28.4	26.7	---	---	---	---
19	24.9	22.8	27.6	25.8	---	---	28.2	27.4	---	---	---	---
20	25.1	23.1	27.8	26.2	---	---	27.8	27.0	---	---	---	---
21	24.6	23.7	28.1	26.4	---	---	27.8	26.3	---	---	---	---
22	24.8	23.3	28.2	26.7	30.8	28.4	27.8	26.4	---	---	---	---
23	25.2	23.6	28.4	26.9	31.5	28.2	27.8	26.9	---	---	---	---
24	25.5	23.8	28.3	26.9	30.5	28.0	28.3	27.2	---	---	---	---
25	25.4	24.1	28.4	26.6	---	---	28.8	27.0	---	---	---	---
26	26.1	24.3	28.4	26.7	---	---	28.1	27.4	---	---	---	---
27	25.5	24.2	28.5	26.8	29.2	27.4	27.9	27.4	---	---	---	---
28	25.1	23.3	28.8	27.0	---	---	27.8	27.1	---	---	---	---
29	25.2	23.7	29.3	27.1	---	---	28.5	26.7	---	---	---	---
30	26.0	24.1	29.6	27.1	28.4	27.0	29.1	27.4	---	---	---	---
31	---	---	29.7	27.8	---	---	28.7	27.8	---	---	---	---
MONTH	26.1	20.6	29.7	24.1	---	---	31.3	26.0	---	---	---	---

023060013 HILLSBOROUGH RIVER AT I-275 AT SULPHUR SPRINGS, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD OCTOBER 2003 TO AUGUST 2004  
(1.0 FT ABOVE BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH					
1	26.5	25.8	26.0	25.1	23.9	23.4	19.7	19.3	19.2	16.2	18.2	17.3				
2	26.2	25.7	26.2	25.7	23.6	23.1	20.0	19.4	19.1	16.5	18.6	16.7				
3	26.6	25.3	26.2	26.0	23.2	22.9	20.2	19.6	19.8	16.5	19.2	17.3				
4	26.3	25.5	26.2	25.9	23.1	22.9	20.4	19.7	20.5	16.6	20.0	18.1				
5	26.5	25.3	26.1	25.6	23.0	22.8	20.8	19.9	21.6	17.9	20.7	19.2				
6	26.6	25.5	---	---	22.9	22.4	21.1	20.2	21.6	18.9	22.0	20.2				
7	---	---	---	---	22.7	21.2	21.0	20.5	21.5	19.1	22.8	21.3				
8	---	---	---	---	22.4	21.5	20.7	20.4	21.1	17.8	23.2	20.9				
9	26.6	25.7	---	---	22.0	21.0	20.6	19.8	20.5	17.1	23.2	20.4				
10	26.3	25.7	---	---	21.4	20.9	20.5	19.6	21.4	17.6	23.1	20.2				
11	26.3	25.8	---	---	21.4	20.1	20.0	19.6	22.9	19.1	22.4	19.7				
12	26.3	25.8	25.7	25.2	21.1	20.8	20.0	19.5	23.2	19.7	22.3	19.7				
13	---	---	25.5	25.4	21.1	20.8	20.1	19.5	22.7	20.4	22.2	19.9				
14	26.5	25.8	25.5	25.2	21.0	20.5	19.8	19.0	23.0	20.7	23.4	21.1				
15	26.6	25.6	25.5	25.3	21.0	20.8	19.5	18.9	22.5	20.7	23.8	20.8				
16	25.9	24.9	25.4	25.2	21.1	20.9	19.4	18.9	22.3	19.5	23.1	20.4				
17	25.8	24.9	25.4	25.1	21.2	20.8	19.4	18.9	20.9	19.4	23.7	21.4				
18	26.9	25.3	---	---	21.2	20.9	19.5	17.9	20.1	17.7	22.9	19.9				
19	26.9	26.3	---	---	21.1	20.7	19.0	17.4	19.9	17.0	23.4	21.0				
20	27.0	26.1	---	---	21.0	18.6	20.2	16.2	19.8	17.3	23.6	21.2				
21	27.0	26.3	---	---	20.7	16.8	18.5	15.9	20.6	18.0	24.0	22.0				
22	26.9	25.3	24.6	21.9	20.1	17.2	18.4	15.4	21.6	18.5	23.8	21.0				
23	26.7	26.1	24.2	21.7	19.7	18.6	18.3	15.1	21.8	19.7	23.3	20.9				
24	---	---	23.8	22.0	19.4	18.9	18.5	14.9	21.7	19.8	23.0	20.2				
25	---	---	23.6	22.7	19.3	18.7	18.6	15.5	21.8	19.0	23.2	20.8				
26	25.8	25.0	23.6	22.6	19.2	18.1	19.8	16.6	21.6	19.8	23.5	20.6				
27	26.0	25.3	23.8	23.5	19.3	19.0	21.8	17.6	20.0	18.0	23.3	21.6				
28	25.9	25.3	24.2	23.7	19.4	19.2	19.6	16.5	19.0	17.3	23.1	21.5				
29	25.6	25.1	24.1	21.8	19.7	19.2	19.0	15.7	18.8	17.3	22.8	21.5				
30	25.5	24.6	23.9	23.3	19.6	19.2	18.7	16.6	---	---	22.1	21.6				
31	25.8	24.7	---	---	19.8	19.2	18.4	16.8	---	---	22.1	21.7				
MONTH	---	---	---	---	23.9	16.8	21.8	14.9	23.2	16.2	24.0	16.7				
DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	22.4	21.9	25.1	24.8	29.7	28.6	---	---	28.3	27.5	---	---				
2	22.4	22.2	26.4	25.0	29.6	28.8	---	---	27.9	27.2	---	---				
3	22.6	22.3	26.0	25.3	29.4	28.7	---	---	28.2	27.2	---	---				
4	22.8	22.4	25.8	24.7	29.5	28.4	---	---	28.1	27.4	---	---				
5	23.1	22.5	25.6	24.5	29.3	28.0	---	---	28.0	27.6	---	---				
6	23.1	22.0	25.6	24.6	29.3	28.4	---	---	28.9	27.6	---	---				
7	23.4	22.6	25.6	24.9	29.1	28.4	---	---	28.8	27.6	---	---				
8	23.7	22.9	25.8	25.2	---	---	---	---	27.7	27.2	---	---				
9	23.9	23.1	25.9	25.5	---	---	---	---	28.2	26.8	---	---				
10	23.7	23.2	25.8	25.6	---	---	---	---	---	---	---	---				
11	24.0	23.4	26.0	25.7	---	---	29.5	28.3	---	---	---	---				
12	23.9	22.4	26.1	25.9	---	---	29.6	27.0	---	---	---	---				
13	23.5	22.4	26.3	26.0	---	---	29.5	26.4	---	---	---	---				
14	23.1	21.8	26.4	26.2	---	---	29.4	27.1	---	---	---	---				
15	22.9	20.8	26.9	26.2	---	---	29.3	27.3	---	---	---	---				
16	23.7	21.3	26.8	26.3	---	---	28.9	27.1	---	---	---	---				
17	24.3	22.6	26.9	26.3	---	---	28.3	27.0	---	---	---	---				
18	24.6	22.8	27.2	26.2	---	---	28.3	26.6	---	---	---	---				
19	24.7	22.9	27.3	26.3	---	---	28.1	27.2	---	---	---	---				
20	24.6	23.3	27.5	26.9	---	---	27.8	27.0	---	---	---	---				
21	24.3	23.4	27.5	27.2	---	---	27.8	26.3	---	---	---	---				
22	24.3	23.5	27.8	27.4	---	---	27.8	26.4	---	---	---	---				
23	24.2	23.6	27.9	27.5	---	---	27.8	26.8	---	---	---	---				
24	24.4	23.6	28.0	27.6	---	---	28.3	27.2	---	---	---	---				
25	24.4	23.7	28.1	27.8	---	---	28.8	27.0	---	---	---	---				
26	24.3	23.9	28.1	27.8	---	---	28.1	27.4	---	---	---	---				
27	24.5	24.0	28.3	27.9	---	---	27.9	27.4	---	---	---	---				
28	24.5	24.1	28.3	27.9	---	---	27.8	27.1	---	---	---	---				
29	24.6	24.4	28.4	28.1	---	---	28.4	26.7	---	---	---	---				
30	24.8	24.6	28.7	28.2	---	---	29.1	27.2	---	---	---	---				
31	---	---	29.2	28.4	---	---	28.7	27.8	---	---	---	---				
MONTH	24.8	20.8	29.2	24.5	---	---	---	---	---	---	---	---				

## 02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL.

LOCATION.--Lat 27° 56' 30", long 82° 27' 32" (1927 North American datum), in SE  $\frac{1}{4}$  sec.25, T.29 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, near center of span on upstream side of bridge at Platt Street near mouth, and 0.6 mi south of downtown post office at Tampa.

DRAINAGE AREA.--694 mi<sup>2</sup>.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--January to August 1997 (gage heights only), incomplete; February 2001 to September 2003 (gage heights only); October 2003 to September 2004 (tidal high-high and low-low only). Records prior to 1997 are available in the files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.83 ft, Sept. 6, 2004; minimum, 7.33 ft, Mar. 31, 2003.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 15.83 ft, Sept. 6; minimum, 7.56 ft, Feb. 18.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.04	9.29	11.58	8.92	10.78	9.19	11.32	9.29	11.39	9.11	11.29	9.14
2	12.13	9.40	11.43	9.43	10.81	9.18	11.56	9.02	11.49	8.62	11.51	8.96
3	12.04	9.54	11.05	9.89	11.67	9.25	11.94	8.92	10.77	8.50	10.97	8.65
4	12.44	9.61	12.32	10.24	12.17	9.54	11.30	9.09	11.66	8.31	11.81	9.03
5	12.06	9.36	12.20	10.19	11.24	9.59	12.27	9.06	11.96	8.80	12.16	9.15
6	12.38	9.67	12.17	9.92	11.70	8.57	12.21	8.93	12.16	9.08	12.29	9.35
7	12.75	10.00	12.13	9.73	10.66	8.31	11.23	7.62	12.49	9.03	11.88	9.11
8	12.30	9.92	12.19	9.43	11.71	8.84	10.98	8.43	10.85	7.77	11.67	8.71
9	12.26	9.97	12.10	9.00	11.85	8.84	12.25	9.32	11.01	8.69	11.62	9.11
10	12.27	9.83	10.78	8.46	12.49	9.68	12.90	8.69	11.44	9.25	11.45	8.36
11	12.38	9.82	11.85	8.99	10.84	8.95	10.73	8.09	11.59	9.53	11.47	9.44
12	12.52	9.89	12.20	9.42	12.01	9.00	11.07	8.96	11.81	9.28	11.99	8.76
13	12.38	9.70	12.61	9.62	11.66	9.33	11.30	9.25	11.68	9.24	11.79	8.97
14	12.48	10.05	11.27	8.94	12.46	10.03	11.62	9.55	12.77	9.15	12.02	8.68
15	12.36	9.27	12.03	9.65	10.97	8.80	11.61	9.95	11.82	9.24	12.18	8.77
16	11.65	9.31	12.13	9.78	11.59	9.47	11.84	9.34	11.29	8.27	12.32	9.22
17	12.01	9.74	11.58	9.55	11.82	9.70	12.51	9.07	11.18	8.23	11.19	9.19
18	11.49	9.57	12.32	10.32	11.95	9.06	12.79	9.53	9.64	7.56	11.76	8.85
19	11.63	9.59	13.11	10.52	11.50	9.14	11.46	8.95	10.86	8.18	11.94	9.08
20	11.58	9.21	11.88	9.12	11.20	8.72	---	8.24	11.99	8.88	11.71	9.24
21	12.01	9.64	11.53	9.57	11.66	7.95	11.83	8.22	12.41	9.16	11.75	9.38
22	12.02	9.75	12.09	9.09	12.21	8.04	12.09	8.48	12.17	9.31	11.75	8.47
23	12.12	9.91	12.39	9.12	11.16	8.58	12.02	8.52	11.63	9.32	10.84	8.38
24	12.13	9.75	12.81	9.23	12.78	8.83	11.76	8.90	12.23	9.52	11.06	8.68
25	12.15	9.30	12.96	8.89	12.32	8.47	11.84	9.42	12.47	9.90	11.70	8.70
26	12.50	9.24	12.72	8.87	11.74	8.42	11.86	9.74	11.91	9.91	11.69	10.13
27	12.69	9.42	12.75	9.34	11.36	8.77	11.91	9.98	10.37	9.44	11.72	9.01
28	13.20	9.97	12.59	9.51	11.45	9.25	10.47	8.97	11.19	7.97	11.66	9.16
29	---	8.96	---	8.00	11.68	9.71	11.40	8.77	11.45	8.29	11.22	9.02
30	12.11	8.91	10.68	8.88	11.71	10.14	11.09	9.29	---	---	11.61	8.72
31	11.38	8.84	---	---	11.33	9.99	10.76	8.76	---	---	12.27	9.30
MAX	---	10.05	---	10.52	12.78	10.14	---	9.98	12.77	9.91	12.32	10.13
MIN	---	8.84	---	8.00	10.66	7.95	---	7.62	9.64	7.56	10.84	8.36

02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.49	9.10	11.73	9.44	12.64	9.17	12.67	8.67	13.34	9.57	11.99	9.52
2	11.09	9.00	12.44	9.97	12.79	9.06	12.76	8.59	12.53	9.47	11.54	9.28
3	11.87	9.21	12.16	9.03	12.88	8.63	12.85	8.75	12.67	9.58	11.51	9.23
4	11.67	9.39	11.45	8.40	12.88	8.78	12.77	8.97	12.36	10.07	11.22	8.53
5	11.66	9.12	11.86	8.45	13.02	8.97	12.53	9.13	11.89	9.98	10.29	8.45
6	11.83	9.13	12.30	8.59	12.73	11.10	12.06	10.40	12.09	10.00	15.83	11.91
7	12.38	9.27	12.47	10.46	12.41	9.05	11.83	9.14	12.00	9.79	12.76	10.42
8	12.86	9.31	12.56	8.62	12.24	9.12	11.65	9.78	12.08	9.72	12.17	9.66
9	12.58	10.89	12.45	8.88	11.93	9.29	11.44	9.87	11.75	9.30	11.73	9.40
10	12.18	9.17	12.23	8.84	11.65	9.76	11.67	9.42	11.65	9.07	11.78	8.91
11	12.67	8.98	11.68	9.17	11.76	10.17	11.85	9.35	11.94	9.21	12.05	8.96
12	13.55	9.16	11.82	9.33	11.83	9.79	11.82	9.11	12.79	9.71	12.28	9.28
13	12.12	9.67	11.51	9.58	11.92	9.46	12.11	9.33	12.48	8.87	12.34	9.58
14	10.75	8.44	11.39	9.49	12.23	9.48	12.27	9.19	12.80	8.97	12.40	9.83
15	10.95	8.30	11.65	9.46	12.27	9.23	11.18	9.10	12.45	9.00	14.00	10.91
16	10.79	8.73	11.45	9.06	12.18	8.95	12.45	9.19	12.27	9.00	12.98	10.32
17	11.05	9.00	11.74	9.00	12.28	8.86	12.72	9.38	12.18	9.12	12.50	9.85
18	11.26	8.82	11.87	8.91	12.35	8.91	12.80	9.42	12.27	9.41	12.23	9.18
19	11.62	8.75	12.22	9.16	12.59	9.10	13.05	9.70	12.04	9.73	12.24	8.92
20	11.68	8.99	12.28	9.00	12.51	9.13	12.18	9.48	11.90	9.78	11.81	8.88
21	12.12	9.16	12.15	8.96	12.57	9.44	11.92	9.28	12.05	9.61	11.30	8.13
22	12.02	8.87	12.44	9.23	12.27	11.14	11.55	9.35	12.26	9.43	12.14	9.16
23	11.79	8.77	12.28	---	12.00	9.29	11.50	10.07	12.35	9.39	12.23	9.06
24	11.80	---	12.07	9.19	11.75	9.34	11.75	9.55	12.34	9.10	12.14	9.07
25	12.11	8.78	11.71	9.14	11.61	9.72	11.89	9.45	12.13	8.87	12.24	8.80
26	11.85	9.12	11.45	9.04	11.67	9.87	12.01	9.23	12.48	8.86	14.70	8.90
27	11.14	9.52	11.25	9.27	11.88	9.60	12.17	8.98	12.54	8.83	13.31	10.56
28	11.18	8.80	11.51	9.59	11.90	9.13	12.27	8.72	12.54	9.00	12.50	9.88
29	11.17	8.82	11.58	9.68	12.31	8.78	12.48	8.74	12.66	9.25	12.17	9.48
30	11.52	9.06	12.08	9.76	12.46	9.00	12.76	8.92	12.60	9.39	12.20	9.42
31	---	---	12.29	9.42	---	---	12.88	8.92	12.35	9.36	---	---
MAX	13.55	---	12.56	---	13.02	11.14	13.05	10.40	13.34	10.07	15.83	11.91
MIN	10.75	---	11.25	---	11.61	8.63	11.18	8.59	11.65	8.83	10.29	8.13

02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL.

PERIOD OF RECORD.--January to August 1997 (top and bottom sensors); February 2001 to current year (top, middle, and bottom sensors). Records prior to 1997 are available in files of the U.S. Geological Survey.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface, near the middle, and near the bottom.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 49,800 microsiemens, May 28, 2001; middle sensor maximum, 49,600 microsiemens, Mar. 9, 2001; bottom sensor maximum, 50,600 microsiemens, June 22, 2001; top sensor minimum, 205 microsiemens, Aug. 25, 2004; middle sensor minimum, 216 microsiemens, Aug. 25, 2004; bottom sensor minimum, 220 microsiemens, Aug. 25, 2004.

TEMPERATURE.--Top sensor maximum, 34.1°C, June 27, 1997; middle sensor maximum, 32.3°C, June 15, 2001; bottom sensor maximum, 32.6°C, July 27, 1997; top sensor minimum, 11.5°C, Jan. 25, 2003; middle sensor minimum, 12.9°C, Jan. 18, 19, 2003; bottom sensor minimum, 12.9°C, Jan. 18, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top sensor maximum, 41,200 microsiemens, May 27; middle sensor maximum, 42,700 microsiemens, June 3 ; bottom sensor maximum, 43,100 microsiemens, June 18; top sensor minimum, 205 microsiemens, Aug. 25; middle sensor minimum, 216 microsiemens, Aug. 25; bottom sensor minimum, 220 microsiemens, Aug. 25.

TEMPERATURE.--Top sensor maximum, 33.1°C, July 9; middle sensor maximum, 33.1°C, July 9; bottom sensor maximum, 32.5°C, June 25; top sensor minimum, 15.1°C, Dec. 21, 26, 27, Jan. 11; middle sensor minimum, 15.1°C, Dec. 26, Jan. 11.; bottom sensor minimum, 15.4°C, Jan. 11.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	32,600	8,490	36,000	19,300	37,800	22,300	38,500	27,400	34,100	9,240	30,200	4,670
2	32,800	8,830	36,300	21,800	38,600	25,600	39,100	25,700	36,700	10,700	11,600	1,400
3	34,100	8,160	36,800	24,100	38,900	26,900	38,500	27,400	36,800	12,300	27,800	1,440
4	33,100	10,200	36,300	25,100	38,400	28,100	38,500	28,800	37,300	14,100	22,700	2,830
5	34,100	10,200	35,100	24,900	39,500	28,900	38,600	29,600	35,900	13,700	25,500	3,490
6	33,700	11,300	36,300	23,700	40,600	27,300	38,700	29,000	34,100	10,600	26,600	4,360
7	33,200	13,300	37,000	22,900	40,400	28,600	40,000	25,600	33,300	9,900	23,900	4,280
8	33,900	14,000	36,900	21,500	40,300	30,400	40,000	30,400	33,800	4,770	30,500	6,160
9	34,600	15,100	37,200	20,500	39,900	30,200	40,000	29,900	9,370	6,080	34,400	11,100
10	35,100	13,400	37,900	19,000	39,100	32,500	40,000	29,000	34,500	9,370	33,600	10,700
11	33,400	13,800	37,700	20,900	39,400	29,600	40,000	26,500	36,700	15,800	35,200	9,240
12	31,600	13,000	37,500	22,000	39,300	28,700	40,000	28,500	36,500	16,700	35,800	9,860
13	33,800	11,900	37,800	23,200	39,400	29,400	40,100	31,100	35,800	14,000	35,000	9,530
14	32,000	11,600	37,700	19,700	38,800	25,400	40,300	30,500	34,300	12,000	33,200	9,960
15	32,500	10,900	37,600	25,800	37,800	22,700	40,300	31,600	35,800	11,700	35,500	11,600
16	33,700	13,000	37,100	25,400	38,000	26,900	40,400	31,300	36,700	12,100	32,100	11,700
17	34,600	14,000	36,300	23,200	38,700	30,100	39,700	30,100	38,400	18,100	35,100	10,800
18	34,800	17,100	36,400	28,600	39,200	26,400	39,800	26,800	38,800	24,600	34,900	13,800
19	35,700	19,500	36,900	26,600	39,200	28,800	38,600	20,700	38,500	23,400	34,800	13,400
20	36,700	19,900	37,900	21,700	39,000	26,200	38,600	18,900	38,400	22,200	34,300	14,200
21	37,900	23,100	38,200	25,700	38,800	25,100	38,600	18,800	38,100	22,300	34,900	14,200
22	38,700	25,900	38,200	24,500	39,000	26,100	39,100	19,500	37,600	22,100	34,900	12,600
23	37,700	24,500	38,200	25,700	38,900	27,100	38,900	19,700	37,600	21,800	35,800	11,900
24	37,300	25,800	37,300	25,800	39,000	27,700	38,400	19,900	35,800	11,800	35,800	11,800
25	36,300	24,100	37,800	24,200	38,900	26,500	37,400	20,800	34,900	4,750	36,900	12,000
26	35,000	21,800	37,800	24,300	38,900	26,000	36,000	18,400	34,000	7,170	36,800	11,700
27	35,500	21,100	37,600	25,800	39,100	26,900	34,700	11,000	10,800	6,680	36,600	13,000
28	34,600	21,700	37,700	27,200	39,000	27,800	35,800	8,970	32,800	3,230	36,900	13,000
29	34,200	17,000	37,700	23,200	38,400	27,900	36,700	11,200	25,700	2,310	38,000	15,100
30	34,700	16,400	37,500	23,300	38,300	29,100	36,900	12,000	---	---	38,600	14,100
31	35,300	18,500	---	---	38,100	28,600	33,200	11,600	---	---	38,000	22,800
MONTH	38,700	8,160	38,200	19,000	40,600	22,300	40,400	8,970	38,800	2,310	38,600	1,400



02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	38,200	26,800	37,600	28,900	40,100	31,400	37,900	20,400	---	---	20,800	1,070				
2	38,700	28,100	38,100	32,000	40,100	32,200	38,400	21,100	---	---	18,800	935				
3	39,000	29,700	37,900	22,900	40,600	30,300	38,600	23,700	---	---	25,000	1,320				
4	39,100	31,400	37,900	24,900	40,200	29,600	37,400	24,600	---	---	21,700	1,040				
5	39,000	31,900	39,200	27,100	39,900	30,000	37,100	24,300	---	---	6,910	1,380				
6	38,700	31,200	39,600	28,800	39,900	29,800	37,900	23,400	---	---	18,200	213				
7	38,400	32,200	39,400	28,800	40,700	29,900	36,800	23,500	---	---	3,200	464				
8	38,100	30,900	38,800	28,500	40,400	28,900	36,800	24,300	---	---	4,620	514				
9	38,100	28,900	38,200	28,400	40,500	27,100	36,800	24,000	---	---	6,960	984				
10	37,600	27,600	38,300	28,200	40,200	25,200	36,300	22,900	---	---	13,000	2,100				
11	37,300	26,300	37,500	28,200	39,400	25,200	36,100	23,900	3,640	293	23,500	4,430				
12	36,200	21,000	37,500	27,500	39,800	26,300	37,000	22,600	7,400	484	21,800	6,030				
13	35,300	24,400	37,000	28,000	40,000	22,400	37,400	21,500	23,600	1,580	21,000	5,940				
14	36,400	20,900	37,000	27,700	38,700	21,100	37,400	17,100	25,300	659	16,900	417				
15	36,100	18,800	37,200	29,700	39,300	20,100	---	---	13,700	337	3,280	287				
16	35,800	19,000	38,000	28,500	39,500	20,200	---	---	8,480	328	3,050	581				
17	34,400	19,100	37,800	27,400	40,000	23,500	---	---	4,480	300	8,560	746				
18	34,700	19,300	39,300	27,700	40,600	24,700	---	---	11,700	315	18,000	810				
19	37,100	17,500	40,300	28,700	38,600	23,900	---	---	5,240	544	24,700	2,690				
20	37,800	21,200	40,500	27,900	38,500	21,300	---	---	3,680	570	27,100	4,540				
21	37,300	22,500	40,800	28,600	37,400	19,100	---	---	4,210	634	21,500	932				
22	37,400	22,600	40,700	29,800	37,600	17,600	---	---	5,090	671	23,900	1,500				
23	36,900	22,400	40,100	29,800	36,900	15,900	---	---	3,180	288	25,200	1,150				
24	37,200	22,200	40,500	29,700	36,800	16,100	---	---	3,540	297	29,300	2,790				
25	37,000	23,400	40,800	29,500	36,400	13,700	---	---	2,770	205	31,800	3,050				
26	36,700	25,300	40,700	29,000	36,900	12,300	---	---	3,000	292	32,600	4,180				
27	36,300	25,200	41,200	29,300	35,200	11,000	---	---	4,940	458	21,500	3,730				
28	36,700	22,900	41,000	32,700	37,800	13,600	---	---	17,600	544	14,700	999				
29	35,900	22,300	40,800	33,700	37,900	18,000	---	---	21,200	779	12,400	865				
30	38,300	25,500	40,500	34,100	38,200	18,800	---	---	22,700	959	16,900	1,440				
31	---	---	40,600	34,200	---	---	---	---	22,600	477	---	---				
MONTH	39,100	17,500	41,200	22,900	40,700	11,000	---	---	---	---	32,600	213				



## 02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR BOTTOM)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	33,200	26,500	36,300	32,400	38,800	38,100	39,500	38,100	39,300	38,300	37,400	35,000
2	33,600	30,200	36,500	34,500	38,900	38,400	40,000	37,000	39,500	35,900	36,100	2,800
3	33,400	32,600	37,000	35,200	39,500	38,800	40,100	34,900	39,400	33,200	35,600	5,980
4	34,100	31,900	36,100	33,300	39,200	36,900	40,000	33,800	39,400	24,500	36,400	7,090
5	34,800	30,800	36,100	32,600	39,400	36,300	39,900	32,800	38,800	23,900	35,500	9,700
6	35,300	30,500	36,400	32,200	40,200	33,700	39,600	32,400	37,300	20,200	34,800	9,430
7	35,300	31,800	36,500	31,700	40,700	35,200	40,600	30,500	37,500	14,700	34,100	26,000
8	35,300	32,300	37,000	33,500	40,800	34,700	41,000	34,400	37,800	30,600	36,200	28,100
9	35,400	33,300	37,300	26,100	39,900	36,200	40,800	35,200	38,400	34,000	36,100	29,000
10	35,200	33,100	37,500	33,700	39,400	37,600	40,300	30,600	38,600	33,600	36,000	19,000
11	34,800	30,700	37,800	34,400	39,400	37,400	40,500	31,600	38,300	33,100	35,900	32,600
12	33,700	29,900	37,900	35,000	39,600	38,300	40,500	36,200	37,700	35,000	36,200	33,100
13	33,800	30,600	38,300	35,600	39,500	38,900	40,600	36,400	37,300	35,000	36,200	33,300
14	33,700	30,600	38,400	37,500	39,600	29,000	40,700	38,800	36,800	30,700	36,200	33,300
15	33,100	18,300	38,500	36,700	39,200	37,600	40,700	37,700	36,500	29,800	36,100	33,100
16	33,600	32,000	38,400	36,800	39,700	38,000	40,600	37,300	37,900	32,400	35,700	32,600
17	34,400	33,000	38,400	36,700	39,700	34,700	40,300	33,300	38,800	31,700	36,300	31,500
18	34,700	33,100	37,900	36,100	40,000	38,000	39,800	34,200	39,100	23,600	36,800	28,900
19	34,900	33,800	38,100	28,800	39,700	34,400	39,400	25,500	38,900	27,800	36,400	29,100
20	37,600	32,200	39,000	27,200	39,300	32,000	39,600	22,500	38,600	26,600	36,200	24,300
21	38,500	34,800	38,900	35,400	39,200	30,700	39,600	27,100	38,300	26,200	36,300	26,600
22	38,600	34,200	38,900	28,300	38,900	30,500	39,500	25,500	37,800	29,500	36,200	22,900
23	38,300	33,800	38,500	28,600	39,100	32,300	39,200	25,700	38,100	32,500	36,200	32,600
24	37,800	31,700	38,400	30,100	39,200	33,600	39,100	31,900	36,700	14,500	36,200	29,000
25	36,900	26,500	38,600	27,900	39,400	31,800	38,200	31,100	36,800	33,700	36,500	32,400
26	35,900	25,600	39,000	29,800	39,000	33,600	37,500	34,300	36,200	33,400	36,500	32,200
27	35,600	26,300	39,000	35,700	39,000	35,900	37,600	32,400	38,500	9,810	36,700	34,100
28	34,700	27,700	38,800	34,300	39,300	38,500	38,500	36,500	38,700	9,360	37,200	34,700
29	34,900	23,500	38,400	29,100	39,300	38,300	38,600	37,100	38,600	9,360	37,300	35,300
30	35,200	32,300	38,400	37,900	39,400	38,100	38,700	37,000	---	---	38,500	35,600
31	35,700	30,100	---	---	39,400	38,800	38,800	36,600	---	---	38,300	35,400
MONTH	38,600	18,300	39,000	26,100	40,800	29,000	41,000	22,500	39,500	9,360	38,500	2,800
DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	38,100	31,100	39,400	31,800	40,800	34,000	---	---	33,600	7,730	28,900	1,460
2	38,500	30,300	38,200	33,100	40,600	33,700	---	---	29,800	7,730	29,600	2,000
3	38,800	31,000	37,800	26,400	42,100	32,600	---	---	31,500	8,210	30,000	2,640
4	38,500	32,900	38,900	26,900	42,200	33,000	---	---	29,800	8,320	31,100	1,360
5	38,300	32,400	39,700	27,900	42,100	32,400	---	---	28,800	17,000	34,500	1,490
6	38,200	32,400	39,700	29,100	42,200	32,800	---	---	31,600	26,800	23,000	260
7	38,000	32,500	39,900	29,500	42,600	33,200	---	---	30,500	2,130	20,800	528
8	37,700	31,900	39,600	29,700	42,700	31,600	---	---	29,400	4,280	18,500	604
9	37,800	29,800	39,300	29,700	42,900	31,500	---	---	27,500	3,130	22,200	2,030
10	37,800	29,900	39,700	29,300	42,800	32,900	---	---	35,800	848	25,000	4,210
11	37,800	29,900	39,300	31,600	42,400	38,500	1,000	1,000	35,200	313	27,500	6,650
12	36,900	21,000	39,000	31,200	42,300	37,100	1,000	1,000	29,800	701	28,600	8,630
13	36,300	26,600	39,200	32,400	42,200	26,400	1,000	1,000	30,300	2,770	29,100	8,010
14	37,000	26,000	39,100	32,800	41,000	25,500	1,000	1,000	30,300	810	27,700	453
15	37,100	32,700	39,900	33,600	41,300	28,100	40,500	1,000	29,200	425	29,100	309
16	37,400	32,500	40,600	31,700	42,200	31,300	41,200	29,100	32,200	472	13,700	776
17	37,500	28,500	40,800	30,000	42,700	29,200	40,900	24,800	32,800	337	21,300	960
18	37,700	26,200	40,900	30,400	43,100	30,800	40,300	18,800	31,400	376	25,000	1,010
19	37,600	29,400	41,200	31,600	42,800	29,900	39,400	10,100	28,800	672	27,500	6,440
20	37,700	29,100	41,500	30,300	41,700	27,900	35,400	5,750	28,700	662	29,300	7,940
21	37,900	28,200	41,700	31,500	41,000	27,400	37,900	5,960	30,400	766	30,300	4,410
22	37,600	26,500	41,800	32,400	40,200	31,100	39,200	5,360	30,300	836	30,700	4,760
23	37,600	31,500	41,800	32,300	39,600	26,600	38,700	5,380	29,700	333	30,800	2,940
24	37,800	28,900	41,800	33,600	39,700	21,100	37,100	4,140	29,900	331	32,200	6,970
25	37,800	29,000	42,000	34,500	40,400	33,400	36,700	4,140	28,700	220	34,800	7,500
26	37,400	29,000	41,800	35,800	40,300	35,500	36,800	4,120	29,400	307	35,700	8,140
27	37,400	35,500	41,900	39,600	39,800	36,200	35,700	2,620	30,000	562	31,600	5,230
28	37,800	35,700	41,900	41,000	41,000	36,700	34,500	2,050	30,500	694	25,800	1,040
29	38,200	34,800	41,300	37,800	41,500	22,200	34,200	2,910	30,100	966	24,800	968
30	39,500	32,200	41,400	36,000	41,400	28,100	34,100	8,260	27,900	1,090	24,900	4,090
31	---	---	41,200	35,500	---	---	35,500	7,030	27,800	511	---	---
MONTH	39,500	21,000	42,000	26,400	43,100	21,100	---	---	35,800	220	35,700	260

02306028 HILLSBOROUGH RIVER AT PLATT STREET AT TAMPA, FL.—Continued

 TEMPERATURE, WATER, DEGREES CELSIUS  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 (NEAR SURFACE)

DAY	MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER
1	28.7	26.9	25.8	24.5	21.1	19.2	18.6	16.7	17.3	16.4	19.1	17.9
2	28.6	26.5	25.9	24.5	20.9	19.2	19.0	16.8	17.6	16.9	18.9	17.7
3	28.3	26.2	25.4	24.6	20.1	18.8	19.1	17.4	18.8	16.9	20.2	17.8
4	27.8	26.9	25.5	24.4	20.7	18.9	19.8	17.8	19.4	16.9	20.7	18.4
5	27.7	27.0	26.3	24.8	20.7	19.5	21.1	18.3	19.7	17.6	22.6	19.3
6	28.0	26.6	26.4	25.2	19.8	18.4	20.8	18.3	21.3	18.8	23.8	20.1
7	28.1	26.6	26.5	25.3	18.8	17.3	19.1	17.4	20.9	18.1	22.3	20.4
8	28.1	26.4	26.3	25.3	18.6	17.5	17.8	16.3	18.2	17.0	21.4	19.8
9	28.2	26.6	25.7	24.9	19.4	17.8	18.1	17.1	19.0	16.8	21.0	19.1
10	27.4	26.5	25.2	24.0	18.9	18.0	17.8	16.4	19.3	17.9	21.2	19.2
11	27.6	26.4	25.3	24.3	18.5	17.8	17.2	15.1	20.0	18.0	21.3	18.3
12	27.6	26.5	25.4	24.4	18.7	17.6	16.7	15.2	21.1	18.9	21.3	19.6
13	28.9	26.6	25.4	24.5	18.5	17.5	16.8	15.4	22.0	19.6	21.4	19.6
14	28.8	27.3	24.6	22.4	19.2	17.7	17.1	15.4	21.5	20.5	21.4	19.8
15	28.1	26.9	24.1	22.6	18.8	16.9	17.1	15.6	20.8	19.6	21.3	20.2
16	27.5	25.8	24.3	22.8	18.3	16.7	16.9	15.5	20.1	18.5	21.8	20.4
17	27.4	25.8	24.5	23.5	18.4	16.8	17.1	15.7	19.2	17.8	22.6	20.3
18	27.4	26.3	24.4	23.0	17.7	16.4	17.3	16.2	19.1	17.6	23.2	20.2
19	27.2	26.2	24.0	23.1	17.4	16.4	17.6	16.3	19.2	17.1	23.7	20.9
20	26.3	25.9	23.8	22.2	16.8	15.7	17.3	16.0	19.0	17.9	23.5	20.8
21	26.6	25.5	23.9	22.1	16.3	15.1	17.3	15.9	20.1	18.4	22.7	20.8
22	26.6	25.3	23.4	22.0	16.6	15.5	16.9	15.8	20.4	18.5	22.9	21.1
23	26.8	25.6	23.2	22.2	16.8	15.9	16.6	15.8	20.8	18.4	22.4	19.4
24	26.7	25.1	23.1	22.4	17.6	15.5	17.2	15.6	21.6	19.8	21.9	19.2
25	26.3	25.2	23.0	22.4	17.6	15.4	17.8	16.1	20.6	19.4	21.5	20.4
26	27.0	25.3	23.3	22.2	17.1	15.1	19.0	16.7	20.5	19.4	22.1	20.1
27	26.8	25.7	24.0	22.5	17.2	15.1	19.6	17.5	20.0	18.0	22.3	20.9
28	26.7	25.6	24.3	22.5	17.5	15.3	18.6	16.9	18.7	16.9	22.6	20.8
29	26.4	25.4	22.9	20.1	18.1	15.8	17.6	15.9	18.9	17.2	22.6	21.0
30	26.3	24.7	21.4	17.6	18.0	16.2	17.1	16.9	---	---	23.2	20.8
31	26.2	24.9	---	---	19.2	16.4	17.0	16.6	---	---	23.4	21.3
MONTH	28.9	24.7	26.5	17.6	21.1	15.1	21.1	15.1	22.0	16.4	23.8	17.7
1	22.3	20.9	26.6	24.7	30.9	29.2	31.7	30.1	---	---	30.0	26.9
2	22.2	20.5	26.8	25.1	30.8	29.1	31.5	29.5	---	---	30.0	27.9
3	22.2	20.8	26.2	25.5	30.7	28.7	31.5	29.9	---	---	29.9	28.1
4	22.1	20.9	26.7	24.7	30.7	29.0	32.0	29.9	---	---	29.9	27.9
5	22.4	20.9	26.5	24.2	30.0	28.3	31.9	30.2	---	---	27.9	25.4
6	22.5	20.8	26.6	24.7	30.7	28.6	32.3	30.1	---	---	26.6	25.1
7	22.9	21.1	27.2	24.8	30.7	29.1	31.4	30.5	---	---	26.6	25.2
8	23.2	21.8	27.3	24.6	30.9	29.2	32.0	30.0	---	---	27.9	26.3
9	23.9	22.4	27.1	25.6	31.3	29.0	33.1	30.7	---	---	27.6	26.9
10	24.7	22.9	26.4	25.5	31.6	29.2	32.4	30.4	---	---	28.4	26.9
11	24.7	23.2	26.7	25.5	31.3	29.5	32.0	30.4	28.7	27.4	28.8	27.3
12	23.9	22.5	27.2	25.6	31.6	29.7	31.4	30.4	28.8	27.4	29.1	27.3
13	23.3	22.2	27.6	25.8	31.4	29.7	31.8	30.1	29.3	27.4	29.4	27.5
14	22.6	21.0	27.5	25.9	31.3	29.6	32.0	30.8	29.2	26.7	28.6	27.2
15	23.8	20.0	27.3	25.8	31.2	29.8	---	---	27.7	26.7	27.2	26.7
16	23.9	21.0	27.1	25.8	31.1	29.6	---	---	27.7	26.3	27.9	26.7
17	23.7	21.5	27.5	25.5	31.1	28.7	---	---	28.1	26.4	29.5	27.3
18	23.7	21.2	28.0	25.8	31.1	29.5	---	---	28.6	26.8	29.1	27.7
19	24.0	21.4	27.7	26.0	31.5	29.3	---	---	28.4	26.7	29.5	28.1
20	24.1	21.3	28.3	25.9	31.8	30.4	---	---	28.6	26.9	28.2	27.4
21	23.6	21.5	28.4	26.0	31.5	29.8	---	---	28.0	27.1	28.0	24.6
22	24.3	21.5	28.3	26.4	31.7	30.2	---	---	28.5	26.9	27.7	26.3
23	24.6	22.2	28.3	26.3	32.3	30.3	---	---	27.8	27.0	27.5	26.5
24	25.1	23.0	28.8	27.0	32.4	30.5	---	---	27.3	27.0	28.1	26.5
25	25.0	23.3	28.9	27.0	32.5	30.6	---	---	27.7	25.8	27.9	26.1
26	25.7	23.5	29.4	27.3	32.5	30.6	---	---	28.2	26.0	26.5	25.1
27	25.3	23.9	30.2	27.6	31.6	29.9	---	---	28.3	27.3	26.3	24.8
28	25.7	23.1	30.2	27.9	31.4	29.4	---	---	28.8	27.2	27.4	25.5
29	25.1	23.6	30.4	28.3	31.5	29.5	---	---	29.3	27.4	28.3	26.1
30	26.6	24.0	30.5	28.6	31.4	29.1	---	---	29.8	27.5	29.2	26.5
31	---	---	30.6	28.9	---	---	---	---	30.1	27.8	---	---
MONTH	26.6	20.0	30.6	24.2	32.5	28.3	---	---	---	---	30.0	24.6





## 02306500 SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°02'35", long 82°30'42" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.16, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, 25 ft upstream from culverts on private road, 160 ft upstream from Gunn Highway, 1.7 mi downstream from Lake Ellen, and 3.5 mi west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

DRAINAGE AREA.--7.43 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1905: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 26.00 ft above National Geodetic Vertical Datum of 1929. Prior to May 3, 1974, at site 160 ft downstream. Prior to Oct. 15, 1965, at datum 4.68 ft higher; Oct. 15, 1965, to May 15, 1967, at datum 3.00 ft higher; May 15, 1967, to May 3, 1974, at present datum.

REMARKS.--Records poor. Flow affected by regulation of control structures upstream from station. Since January 1970, flow has been diverted from basin (downstream from station) through Channel G to Rocky Creek. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	1.0	0.55	0.47	10	5.0	0.41	0.32	0.11	7.0	24	23
2	3.6	0.98	0.54	0.48	4.0	11	0.36	0.30	1.1	4.2	63	28
3	3.4	0.97	0.54	0.48	3.3	4.9	0.33	0.64	0.41	2.9	62	34
4	3.1	0.95	0.55	0.53	3.0	2.3	0.34	0.64	0.37	2.2	57	32
5	3.0	1.3	0.56	0.49	2.7	2.7	0.33	0.45	0.65	7.7	53	39
6	2.8	2.4	0.52	0.48	2.6	3.1	0.34	0.37	0.46	10	49	108
7	2.6	2.7	0.47	0.43	2.4	3.4	0.33	0.33	0.39	5.7	49	90
8	2.4	2.2	0.47	0.40	2.1	3.4	0.37	0.30	0.78	3.8	44	64
9	2.3	2.0	0.47	0.84	1.9	3.1	0.40	0.27	2.7	2.6	21	62
10	2.1	1.7	0.48	1.1	1.8	2.8	0.49	0.25	4.1	1.8	4.7	57
11	2.0	1.5	0.45	0.82	1.7	2.5	0.82	0.26	5.6	1.2	16	50
12	2.0	1.4	0.45	0.70	1.6	2.3	6.9	0.24	3.0	1.1	33	46
13	2.1	1.2	0.45	0.64	1.5	2.1	6.0	0.20	5.5	2.2	33	44
14	2.4	1.1	1.3	0.60	1.7	1.9	4.1	0.20	11	1.7	8.2	40
15	2.3	1.1	1.0	0.59	2.4	1.8	3.0	0.19	4.0	1.0	6.6	37
16	2.1	1.0	0.85	0.54	2.2	2.7	2.3	0.17	2.9	4.3	5.8	35
17	1.8	0.96	0.75	0.52	2.0	2.7	1.7	0.16	2.4	5.3	5.7	33
18	1.6	0.96	0.62	5.9	1.9	2.4	1.2	0.82	2.0	45	6.3	24
19	1.5	1.5	0.58	4.6	1.6	2.1	0.93	0.49	1.7	65	6.1	12
20	1.4	1.0	0.57	3.4	1.5	1.8	0.77	0.38	1.3	98	16	20
21	1.3	0.86	0.52	2.7	1.4	1.6	0.66	0.31	1.1	93	29	25
22	1.2	0.77	0.54	2.2	1.2	1.4	0.58	0.26	0.83	75	30	6.6
23	1.1	0.72	0.53	1.9	1.1	1.1	0.54	0.19	0.84	46	10	5.8
24	1.1	0.69	0.52	1.7	5.0	0.91	0.50	0.19	0.67	51	14	15
25	1.0	0.71	0.49	1.6	53	0.73	0.45	0.13	0.49	46	41	32
26	1.0	0.68	0.47	1.6	8.5	0.65	0.38	0.12	1.1	44	70	43
27	1.0	0.64	0.47	7.2	5.3	0.58	0.36	0.51	6.3	31	55	47
28	1.1	0.62	0.47	6.0	4.7	0.53	0.32	0.13	3.4	17	46	39
29	1.3	0.58	0.47	4.9	4.8	0.50	0.29	0.11	8.7	47	31	30
30	1.1	0.55	0.47	4.2	---	0.46	0.30	0.11	14	48	9.9	12
31	1.1	---	0.48	4.5	---	0.45	---	0.11	---	39	12	---
TOTAL	60.8	34.74	17.60	62.51	136.9	72.91	35.80	9.15	87.90	809.7	911.3	1,133.4
MEAN	1.96	1.16	0.57	2.02	4.72	2.35	1.19	0.30	2.93	26.1	29.4	37.8
MAX	4.0	2.7	1.3	7.2	53	11	6.9	0.82	14	98	70	108
MIN	1.0	0.55	0.45	0.40	1.1	0.45	0.29	0.11	0.11	1.0	4.7	5.8
AC-FT	121	69	35	124	272	145	71	18	174	1,610	1,810	2,250

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
	6.14	42.3	(1960)	0.01	(1957)	2.37	13.1	(1989)	0.00	(1957)	2.84	56.6	(1998)	0.00	(1957)
	3.58	42.4	(1998)	0.00	(1957)	3.84	48.2	(1998)	0.00	(1957)	7.33	79.3	(1960)	0.00	(2000)
	4.60	55.8	(1959)	0.00	(1956)	2.15	27.3	(1959)	0.00	(1955)	3.83	40.8	(1959)	0.00	(1955)
	6.84	56.7	(1959)	0.02	(1956)	15.5	97.5	(1960)	0.00	(1956)	16.6	83.3	(1979)	0.00	(1956)

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	3,227.10		3,372.71			
ANNUAL MEAN	8.84		9.22		6.31	
HIGHEST ANNUAL MEAN					35.9	
LOWEST ANNUAL MEAN					0.15	
HIGHEST DAILY MEAN	93	Jun 20	108	Sep 6	396	Mar 17, 1960
LOWEST DAILY MEAN	0.30	Jun 5	0.11	May 29	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.46	Dec 7	0.17	May 26	0.00	May 15, 1953
MAXIMUM PEAK FLOW			133	Sep 6	438	Mar 17, 1960
MAXIMUM PEAK STAGE			7.23	Sep 6	9.57	May 18, 1979
ANNUAL RUNOFF (AC-FT)	6,400		6,690		4,570	
10 PERCENT EXCEEDS	30		39		17	
50 PERCENT EXCEEDS	2.6		1.7		1.3	
90 PERCENT EXCEEDS	0.62		0.37		0.14	

## 02306647 SWEETWATER CREEK NEAR TAMPA, FL.

LOCATION.--Lat 28°00'49", long 82°32'43" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.30, T.28 E., R.18 E., Hillsborough County, Hydrologic Unit 03100206, near left bank, 24 ft upstream from structure G-1, 500 ft west of Veterans Expressway, 4.0 mi upstream from mouth, and 7.5 mi northwest of Tampa.

DRAINAGE AREA.--14.3 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1964 to September 1981 (discharge measurements only); October 1985 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (Hillsborough County bench mark). Prior to Mar. 25, 1975, nonrecording gage 1,000 ft upstream at datum 10 ft lower; Mar. 25, 1975, to September 1981, nonrecording gage at same site at present datum.

REMARKS.--Records fair. WDR 1992 through WDR 2002 period of record gage height at present datum. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	6.0	2.1	2.9	30	25	1.6	1.9	0.69	26	46	59
2	24	5.9	1.7	3.0	19	29	1.6	1.9	0.68	22	108	62
3	18	5.9	1.4	2.9	12	26	1.6	3.0	0.79	15	122	76
4	14	5.9	1.3	3.0	12	15	1.6	3.8	1.2	10	112	74
5	12	5.9	1.4	3.1	10	14	1.6	1.9	2.1	13	110	136
6	10	13	1.4	3.2	9.6	13	1.6	1.3	1.2	37	100	535
7	9.9	21	1.4	3.0	8.4	14	1.6	1.1	2.3	22	150	412
8	8.6	15	1.4	2.7	7.8	13	1.6	1.1	6.8	15	103	330
9	7.7	13	1.2	4.4	6.9	12	1.6	0.83	14	11	84	328
10	6.9	11	1.3	9.9	6.4	11	1.6	0.83	28	7.8	37	257
11	6.6	10	1.5	5.7	6.2	9.9	2.7	0.83	18	6.2	28	175
12	7.1	8.3	1.6	3.9	5.9	9.6	50	0.83	13	6.1	42	141
13	7.2	8.0	1.6	3.2	5.9	9.6	36	0.77	29	9.2	46	127
14	8.0	6.8	11	2.7	6.4	8.8	18	0.70	101	9.2	39	115
15	7.7	6.2	13	2.5	11	8.2	11	0.72	29	7.6	35	105
16	7.1	6.1	7.4	2.5	9.4	16	8.8	1.4	17	15	27	97
17	8.6	5.9	5.7	2.5	7.8	16	7.4	2.3	12	38	27	91
18	8.1	5.4	4.7	49	6.9	12	6.1	1.8	9.9	114	32	81
19	5.7	12	3.9	33	6.3	10	5.4	1.6	7.5	208	25	47
20	5.3	15	3.3	20	5.6	9.2	4.8	1.4	6.0	229	29	54
21	4.9	9.9	3.0	11	5.3	7.9	4.7	1.2	4.4	179	51	94
22	4.6	7.3	2.8	8.7	5.3	4.7	4.6	1.3	3.3	200	67	35
23	4.7	5.3	2.8	6.4	5.3	3.8	4.6	1.3	2.8	166	33	31
24	4.7	5.0	2.9	4.7	25	3.5	4.5	1.4	1.8	116	50	39
25	4.7	4.4	3.0	3.8	200	3.2	4.0	1.6	1.2	115	103	93
26	4.7	4.6	2.6	3.2	111	2.7	3.8	1.5	1.0	78	279	224
27	4.7	4.0	2.9	34	59	2.1	3.2	1.4	8.4	65	178	247
28	5.2	4.0	2.7	26	39	2.0	2.7	1.2	13	53	129	186
29	7.9	3.5	2.5	15	31	1.9	2.3	1.0	17	80	99	142
30	6.9	2.7	2.6	12	---	1.8	1.7	1.1	51	79	44	82
31	6.0	---	2.7	16	---	1.7	---	0.62	---	69	42	---
TOTAL	276.5	237.0	98.8	303.9	674.1	316.6	202.3	43.63	404.06	2,021.1	2,377	4,475
MEAN	8.92	7.90	3.19	9.80	23.2	10.2	6.74	1.41	13.5	65.2	76.7	149
MAX	35	21	13	49	200	29	50	3.8	101	229	279	535
MIN	4.6	2.7	1.2	2.5	5.3	1.7	1.6	0.62	0.68	6.1	25	31
CFSM	0.62	0.55	0.22	0.69	1.63	0.71	0.47	0.10	0.94	4.56	5.36	10.4
IN.	0.72	0.62	0.26	0.79	1.75	0.82	0.53	0.11	1.05	5.26	6.18	11.64
*PREC	---	1.92	1.04	5.37	4.54	0.61	2.74	0.83	---	8.97	7.66	11.20

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	18.3	11.8	20.1	14.0	15.4	16.3	9.23	5.75	18.0	33.4	47.4	50.5							
MAX	59.0	77.7	219	89.0	137	89.9	49.1	29.7	101	103	183	149							
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1987)	(1987)	(2003)	(2003)	(2003)	(2004)							
MIN	2.24	1.24	0.71	1.26	1.14	0.59	0.38	0.00	1.43	6.52	8.65	7.44							
(WY)	(2001)	(2001)	(2000)	(2001)	(2002)	(2002)	(2000)	(2000)	(2001)	(1993)	(1993)	(1990)							

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1986 - 2004
ANNUAL TOTAL	16,517.6	11,429.99	
ANNUAL MEAN	45.3	31.2	21.7
HIGHEST ANNUAL MEAN			70.1
LOWEST ANNUAL MEAN			6.98
HIGHEST DAILY MEAN	431	535	803
LOWEST DAILY MEAN	1.2	0.62	0.00
ANNUAL SEVEN-DAY MINIMUM	1.3	0.79	0.00
MAXIMUM PEAK FLOW		664	930
MAXIMUM PEAK STAGE		13.30	13.83
ANNUAL RUNOFF (CFSM)	3.16	2.18	1.52
ANNUAL RUNOFF (INCHES)	42.97	29.73	20.62
10 PERCENT EXCEEDS	133	100	56
50 PERCENT EXCEEDS	11	7.7	6.8
90 PERCENT EXCEEDS	3.5	1.5	1.2

\*Precipitation, total, inches



## 02306654 HENRY STREET CANAL NEAR TAMPA, FL.

LOCATION.--Lat 27° 59' 59", long 82° 33' 05" (1927 North American datum), in SE  $\frac{1}{4}$  sec.36, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right upstream wingwall of Golden Drive bridge, 1,300 ft north of Hillsborough Avenue, 0.5 mi upstream from Sweetwater Creek, and 7.0 mi northwest of Tampa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1985 to September 1990; April 1992 to current year.

REVISED RECORDS.--WDR FL-2002-3A: 2001 (September).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	e1.3	e2.0	2.8	16	4.8	e1.6	1.6	2.4	8.6	32	31
2	9.3	e1.4	1.7	2.7	7.4	4.3	1.6	1.9	2.8	22	29	13
3	7.5	e1.3	1.6	2.7	6.1	3.9	2.0	15	2.9	10	16	10
4	6.4	e1.0	1.6	2.7	5.4	3.7	1.9	5.2	4.4	7.4	50	11
5	5.7	e1.4	1.6	2.7	5.1	3.6	1.9	2.8	5.4	8.6	41	110
6	5.1	e4.0	1.6	2.7	5.2	3.4	2.0	1.9	3.4	9.9	22	529
7	4.6	6.1	1.6	2.7	4.9	3.4	2.2	1.6	9.4	13	204	93
8	4.3	e4.0	1.6	2.6	4.8	3.4	2.7	1.6	19	9.8	53	33
9	4.1	e3.8	1.6	8.5	4.6	3.3	2.5	1.6	21	7.1	41	56
10	4.1	e3.5	1.6	6.1	4.6	3.3	2.7	1.7	17	6.5	19	25
11	4.1	e3.0	1.6	3.2	4.5	3.2	8.8	1.4	12	6.0	15	19
12	4.9	e2.8	1.6	3.0	4.5	3.2	65	1.3	4.8	7.2	15	17
13	4.2	e2.5	1.5	2.9	4.5	3.2	11	1.4	99	11	15	15
14	4.9	e1.9	29	2.9	6.5	3.1	4.8	1.6	109	8.2	35	14
15	4.4	e1.5	7.1	2.8	6.9	3.3	3.4	2.1	14	6.7	24	18
16	3.9	e1.3	4.8	2.8	4.9	19	2.7	2.5	7.9	15	14	13
17	3.6	e1.2	3.7	2.8	4.6	6.5	2.2	4.3	5.8	41	14	12
18	3.5	e1.5	3.3	73	4.5	4.3	1.9	4.1	4.9	113	12	11
19	3.4	e2.0	3.2	15	4.4	3.7	1.7	3.4	4.5	146	10	10
20	3.3	e5.0	3.1	7.6	4.4	e3.1	1.7	2.7	4.2	232	9.2	e10
21	3.2	e4.5	3.0	6.6	4.4	e2.8	1.7	2.4	3.9	60	8.8	e10
22	3.2	e4.3	2.9	7.2	4.3	e2.5	1.5	2.1	3.6	27	8.3	11
23	3.2	e3.7	2.8	5.3	4.3	e2.2	1.5	1.7	3.5	22	15	9.8
24	3.0	e3.1	3.1	4.9	56	e2.1	1.5	1.8	3.5	45	24	9.0
25	2.9	e2.9	3.0	4.7	139	e2.0	1.4	e1.9	4.8	37	41	8.6
26	2.8	e2.7	2.9	4.6	17	e1.9	1.3	e2.0	4.4	18	85	141
27	2.8	e2.5	2.9	32	10	e1.8	1.3	e2.0	13	14	23	71
28	3.9	e2.4	2.8	7.9	7.0	e1.8	1.3	2.1	24	58	16	25
29	4.5	e2.3	2.8	5.9	5.6	e1.7	1.2	2.1	34	44	13	16
30	e2.1	e2.1	2.8	5.8	---	e1.7	1.2	2.1	20	22	11	13
31	e1.3	---	2.8	11	---	e1.6	---	2.1	---	15	13	---
TOTAL	144.2	135.0	107.2	248.1	361.4	111.8	138.2	82.0	468.5	1,051.0	928.3	1,364.4
MEAN	4.65	4.50	3.46	8.00	12.5	3.61	4.61	2.65	15.6	33.9	29.9	45.5
MAX	20	40	29	73	139	19	65	15	109	232	204	529
MIN	1.3	1.0	1.5	2.6	4.3	1.6	1.2	1.3	2.4	6.0	8.3	8.6

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

	8.70	7.14	9.88	7.55	7.67	8.55	5.94	3.93	13.2	18.0	22.6	23.2
MEAN	8.70	7.14	9.88	7.55	7.67	8.55	5.94	3.93	13.2	18.0	22.6	23.2
MAX	19.7	20.5	62.0	15.8	31.6	33.6	15.9	11.3	36.6	34.6	55.3	73.8
(WY)	(1996)	(1998)	(1998)	(1996)	(1998)	(1987)	(1997)	(1998)	(2003)	(1995)	(1995)	(1988)
MIN	1.79	2.55	2.31	1.99	1.67	1.44	1.30	0.59	3.96	5.58	5.76	8.76
(WY)	(2001)	(2001)	(2002)	(2001)	(2001)	(2000)	(1999)	(2000)	(2001)	(1999)	(2001)	(1990)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1986 - 2004

ANNUAL TOTAL	5,165.34		5,140.1		
ANNUAL MEAN	14.2		14.0		11.4
HIGHEST ANNUAL MEAN					19.9
LOWEST ANNUAL MEAN					5.14
HIGHEST DAILY MEAN	185	Aug 10	529	Sep 6	529
LOWEST DAILY MEAN	0.94	May 17	1.0	Nov 4	0.10
ANNUAL SEVEN-DAY MINIMUM	1.4	Oct 30	1.3	Apr 24	0.13
MAXIMUM PEAK FLOW			967	Sep 6	1,210
MAXIMUM PEAK STAGE			12.13	Sep 6	12.60
10 PERCENT EXCEEDS	29		29		23
50 PERCENT EXCEEDS	5.4		4.4		4.8
90 PERCENT EXCEEDS	2.0		1.6		1.6

e Estimated

## 02306774 ROCKY CREEK AT STATE HIGHWAY 587 NEAR CITRUS PARK, FL.

LOCATION.--Lat 28°03'55", long 82°34'00" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.12, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right bank, 20 ft north of bridge on State Highway 587 (Gunn Highway), 0.2 mi east of intersection Sheldon Road and Gunn Highway, 1.2 mi south of Citrus Park, and 9.0 mi upstream from mouth.

DRAINAGE AREA.--19 mi<sup>2</sup> (corrected).

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1985 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Hillsborough County bench mark). Prior to Apr. 2, 1997, at site 120 ft north at same datum; Apr. 2, 1997, to Dec. 17, 1998, at site 120 ft south at same datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	2.7	1.6	0.75	13	51	8.9	0.60	0.09	13	93	82
2	29	2.6	1.5	0.76	21	48	12	0.57	0.09	8.0	114	63
3	27	2.6	1.4	0.83	23	44	12	0.59	0.10	6.3	101	54
4	20	2.5	1.4	0.83	21	40	10	0.67	0.13	5.2	96	48
5	17	2.6	1.3	0.83	20	37	8.8	0.62	0.16	11	103	66
6	17	3.0	1.2	0.82	19	33	9.1	0.56	0.16	34	96	208
7	16	3.7	1.2	0.73	18	30	8.2	0.56	1.0	26	101	194
8	15	3.7	1.2	0.73	17	27	7.1	0.58	0.98	25	106	155
9	15	3.7	1.2	0.81	16	24	6.3	0.53	0.71	25	114	158
10	14	3.6	1.1	1.3	15	21	5.7	0.48	3.2	18	101	161
11	14	3.3	1.2	0.99	14	19	5.2	0.42	2.9	14	92	163
12	13	3.1	1.2	0.79	12	18	14	0.36	1.8	12	86	161
13	14	2.9	1.2	0.75	9.8	17	17	0.33	4.7	11	82	159
14	e12	2.7	1.6	0.70	9.0	16	14	0.27	53	9.3	84	151
15	e8.0	2.5	1.6	0.66	12	15	12	0.16	17	4.1	87	144
16	5.2	2.4	1.4	0.67	13	15	12	0.15	9.0	5.4	82	136
17	4.5	2.3	1.3	0.64	13	13	12	0.15	5.8	8.2	81	127
18	4.0	2.1	1.2	2.1	13	11	11	0.15	4.1	77	82	118
19	3.6	2.4	1.2	2.4	12	9.0	10	0.18	4.0	185	69	109
20	3.4	2.4	1.1	1.8	12	7.5	7.4	0.20	13	184	62	102
21	3.2	2.2	1.00	1.5	11	6.5	5.4	0.14	8.3	161	61	99
22	3.0	2.1	0.94	1.4	11	5.6	4.1	0.11	5.5	133	59	94
23	3.0	2.1	1.00	1.1	11	5.0	3.0	0.09	4.0	116	54	88
24	2.9	2.3	1.00	1.1	13	4.7	2.3	0.08	3.0	105	51	83
25	2.9	2.4	0.95	0.99	142	4.5	1.7	0.11	2.2	101	64	77
26	2.8	2.3	0.91	1.4	105	4.4	1.2	0.12	1.9	93	99	102
27	2.7	2.1	0.91	26	70	4.3	0.98	0.11	3.6	90	78	150
28	2.6	1.8	0.91	16	60	4.3	0.85	0.13	3.4	87	81	129
29	3.0	1.8	0.85	9.7	54	4.3	0.72	0.09	7.3	91	68	116
30	2.8	1.7	0.80	8.2	---	4.3	0.65	0.08	40	87	62	108
31	2.8	---	0.78	8.6	---	5.3	---	0.07	---	82	66	---
TOTAL	315.4	77.6	36.15	95.88	779.8	548.7	223.60	9.26	201.12	1,827.5	2,575	3,605
MEAN	10.2	2.59	1.17	3.09	26.9	17.7	7.45	0.30	6.70	59.0	83.1	120
MAX	32	3.7	1.6	26	142	51	17	0.67	53	185	114	208
MIN	2.6	1.7	0.78	0.64	9.0	4.3	0.65	0.07	0.09	4.1	51	48
CFSM	0.57	0.15	0.07	0.17	1.51	0.99	0.42	0.02	0.38	3.31	4.67	6.75
IN.	0.66	0.16	0.08	0.20	1.63	1.15	0.47	0.02	0.42	3.82	5.38	7.53

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2004, BY WATER YEAR (WY)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	14.3	6.41	14.8	10.9	11.5	12.7	6.01	1.05	8.00	14.1	25.4	38.2							
MAX	56.6	44.3	129	98.0	111	103	41.7	4.11	87.4	59.2	114	127							
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1987)	(1998)	(2003)	(2003)	(2003)	(1988)							
MIN	0.01	0.05	0.16	0.17	0.19	0.06	0.00	0.01	0.00	0.36	0.06	0.52							
(WY)	(1994)	(1994)	(1994)	(2001)	(2001)	(1994)	(1994)	(2000)	(1994)	(1992)	(1993)	(1993)							

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1986 - 2004
ANNUAL TOTAL	12,899.393	10,295.01	
ANNUAL MEAN	35.3	28.1	13.6
HIGHEST ANNUAL MEAN			53.3
LOWEST ANNUAL MEAN			2.16
HIGHEST DAILY MEAN	272	208	336
LOWEST DAILY MEAN	0.31	0.07	0.00
ANNUAL SEVEN-DAY MINIMUM	0.38	0.09	0.00
MAXIMUM PEAK FLOW		270	366
MAXIMUM PEAK STAGE		25.42	25.52
ANNUAL RUNOFF (CFSM)	1.99	1.58	0.765
ANNUAL RUNOFF (INCHES)	26.96	21.52	10.40
10 PERCENT EXCEEDS	108	100	36
50 PERCENT EXCEEDS	11	6.3	2.3
90 PERCENT EXCEEDS	0.77	0.63	0.13

e Estimated

02306774 ROCKY CREEK AT STATE HIGHWAY 587 NEAR CITRUS PARK, FL.

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 2002 to September 2004 (discontinued).

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors located near the surface.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 482 microsiemens, June 28, 2002; minimum, 106 microsiemens, June 23, 2002, Aug. 10, 2003.

TEMPERATURE.--Maximum, 30.1°C, Aug. 19, 20, 2004; minimum, 9.7°C, Jan. 25, 2003.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 401 microsiemens, June 11; minimum, 111 microsiemens, July 5.

TEMPERATURE.--Maximum, 30.1°C, Aug. 19, 20; minimum, 11.2°C, Dec. 21.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
(NEAR SURFACE)

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	124	119	171	167	164	163	179	177	193	175	145	144
2	123	120	170	166	164	163	179	177	176	157	144	144
3	121	120	168	166	167	163	179	178	157	151	145	144
4	123	120	167	165	170	163	180	179	152	148	146	144
5	124	122	166	161	164	163	180	178	150	147	147	144
6	126	123	162	159	165	164	178	177	148	147	148	146
7	126	124	164	161	166	164	177	176	148	146	148	147
8	128	124	163	159	167	165	178	176	148	147	150	148
9	128	125	159	157	167	166	178	173	148	147	152	148
10	128	127	157	156	168	166	178	174	148	147	150	147
11	130	128	157	155	167	166	179	177	149	147	150	147
12	131	128	156	155	168	166	179	179	153	148	148	147
13	136	131	156	154	169	167	181	179	199	153	151	147
14	137	136	155	154	170	163	182	181	158	152	151	149
15	145	137	154	153	171	165	183	181	172	152	154	149
16	147	144	155	153	177	171	183	182	170	161	158	149
17	151	147	157	154	177	176	184	182	162	157	164	158
18	155	151	157	156	176	175	193	167	157	155	167	164
19	158	155	157	152	178	175	218	193	156	154	169	166
20	160	157	162	153	180	178	218	213	155	153	173	169
21	161	159	166	162	180	178	213	211	155	153	171	170
22	162	160	167	164	181	177	211	208	154	152	177	171
23	162	161	166	165	178	177	208	207	154	152	177	175
24	163	162	165	160	178	177	210	207	154	139	176	175
25	164	162	161	160	177	176	207	206	167	140	175	173
26	165	164	160	159	176	175	207	205	142	141	175	172
27	165	165	162	159	176	175	215	169	143	141	174	172
28	167	164	164	161	176	176	211	201	145	142	172	170
29	165	161	164	162	177	176	210	204	145	144	171	170
30	168	165	164	163	177	176	205	196	---	---	172	170
31	168	167	---	---	179	177	196	178	---	---	171	160
MONTH	168	119	171	152	181	163	218	167	199	139	177	144





## 02306904 BRUSHY CREEK NEAR SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°05'03", long 82°31'29" (1927 North American datum), in NE $\frac{1}{4}$  sec.5, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, near center of span on downstream side of bridge on Ehrlich Road, 3.4 mi upstream from mouth, and 6.1 mi northwest of Sulphur Springs.

DRAINAGE AREA.--6.2 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1946 to March 1953, April 1980 to October 1981, October 1987 to September 1996 (miscellaneous measurements only); October 1996 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 30.00 ft above National Geodetic Vertical Datum of 1929 (Hillsborough County bench mark). Prior to Oct. 1, 1996, nonrecording gage at present site at present datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.35 ft, Dec. 27, 1997; dry many days some years.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.22 ft, Sept. 6; minimum, 6.63 ft, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.62	6.79	6.71	6.77	7.79	---	---	6.99	---	---	9.11	8.69
2	7.52	6.77	6.71	6.79	7.54	7.49	---	6.96	---	---	9.25	8.37
3	7.40	6.76	6.72	6.77	7.41	7.42	---	7.03	---	---	8.93	8.22
4	7.30	6.76	6.75	6.76	---	7.35	---	6.90	---	---	9.00	8.23
5	7.27	6.90	6.76	6.74	---	7.31	---	6.84	---	---	9.14	9.43
6	7.21	7.32	6.70	6.71	---	7.28	---	6.82	---	---	8.92	12.62
7	7.15	7.21	6.70	6.64	---	7.30	---	6.81	---	---	9.67	11.63
8	7.12	7.08	6.71	6.67	---	7.74	---	6.79	---	---	9.98	11.07
9	7.07	6.98	6.75	6.90	---	7.75	---	6.77	---	---	10.02	11.04
10	7.04	6.92	6.84	6.81	---	7.50	---	6.76	---	---	9.44	10.74
11	7.01	6.89	6.75	6.76	---	7.38	---	6.79	---	---	9.16	10.54
12	7.23	6.89	---	6.74	---	7.32	---	6.80	---	---	8.89	10.30
13	7.13	6.86	---	6.71	---	7.26	---	6.79	---	---	8.72	10.09
14	7.09	6.83	---	6.71	---	7.22	---	---	---	---	8.75	9.88
15	7.03	6.82	---	6.71	---	7.25	---	---	---	---	8.74	9.76
16	6.99	6.82	---	6.70	---	7.28	---	---	---	---	8.55	9.63
17	6.96	6.83	---	6.71	---	7.20	---	---	---	---	8.57	9.51
18	6.94	6.84	---	7.59	---	7.13	---	---	---	---	8.43	9.39
19	6.92	7.07	---	7.19	---	7.22	---	---	---	---	8.22	9.25
20	6.98	6.95	---	7.03	---	7.23	---	---	---	---	8.19	9.14
21	7.01	6.90	---	6.95	---	7.17	---	---	---	---	8.15	9.34
22	6.98	6.88	---	6.89	---	7.07	---	---	---	---	8.05	8.95
23	6.94	6.86	---	6.88	---	7.00	---	---	---	---	8.01	8.64
24	6.90	6.87	---	6.85	---	6.94	---	---	---	---	8.63	8.56
25	6.88	6.87	---	6.86	---	6.94	---	---	---	---	9.01	8.46
26	6.88	6.86	---	7.13	---	6.93	---	---	---	---	9.21	9.94
27	6.89	6.84	---	8.82	---	6.92	6.90	---	---	---	9.02	10.56
28	6.98	6.81	---	7.79	---	6.92	6.86	---	---	---	9.22	10.01
29	6.94	6.73	---	7.51	---	6.91	6.84	---	---	---	8.73	9.83
30	6.88	6.73	---	7.44	---	---	6.95	---	---	---	8.56	9.64
31	6.83	---	---	7.68	---	---	---	---	---	8.61	8.64	---
MEAN	7.07	6.89	---	7.01	---	---	---	---	---	---	8.87	9.72
MAX	7.62	7.32	---	8.82	---	---	---	---	---	---	10.02	12.62
MIN	6.83	6.73	---	6.64	---	---	---	---	---	---	8.01	8.22

## 02306950 BRUSHY CREEK NEAR CITRUS PARK, FL.

LOCATION.--Lat 28°03'53", long 82°33'20" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.12, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right bank, 200 ft upstream from culverts on Gunn Highway (State Highway 587), 0.45 mi west of Anderson Road, 1.8 mi southeast of Citrus Park, and 6.0 mi upstream from mouth.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--May 1946 to October 1981 (miscellaneous discharge measurements only); June 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 17.32 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	10	e6.6	8.6	57	29	3.3	3.8	0.40	58	76	77
2	24	e10	e6.6	8.7	38	26	1.9	6.3	0.40	26	132	57
3	22	e10	e6.5	8.8	25	17	5.0	3.4	0.41	16	94	44
4	14	e10	e6.3	8.9	20	12	4.5	6.5	0.42	17	78	43
5	18	e10	e6.3	6.9	18	17	2.7	2.1	1.1	17	102	78
6	13	13	e6.3	2.7	14	16	2.0	1.6	2.4	48	87	469
7	12	30	e6.3	7.4	18	16	2.0	2.9	4.4	26	131	422
8	12	17	e6.3	2.9	15	13	1.5	1.4	18	18	139	268
9	12	14	e6.3	4.4	11	25	2.7	1.1	11	11	161	239
10	11	e13	e6.3	11	11	22	0.97	1.3	50	7.6	109	218
11	12	e12	e6.3	10	8.8	15	4.6	3.6	24	7.1	82	186
12	e15	e11	e6.3	8.5	13	9.2	55	1.1	13	6.5	64	163
13	22	e10	e6.4	7.7	8.4	11	64	3.5	19	7.7	62	144
14	18	e9.5	e9.0	8.3	14	8.5	30	1.8	113	9.7	62	122
15	13	e9.4	12	7.9	26	9.4	15	0.75	43	4.4	65	105
16	12	e9.2	9.6	5.5	19	11	13	1.4	22	8.0	60	89
17	e11	e9.0	11	5.8	19	11	8.6	1.4	16	12	66	75
18	e11	e8.9	9.7	31	12	11	9.2	3.1	11	133	73	66
19	e11	e11	9.8	27	13	10	4.9	2.0	11	304	55	62
20	e11	12	10	18	11	8.1	4.4	1.1	8.6	407	39	58
21	11	e10	9.6	15	11	8.3	3.9	0.59	7.9	318	49	57
22	e11	e9.4	9.3	13	13	6.9	5.9	0.48	7.5	155	36	57
23	e11	e8.7	8.4	9.5	13	7.0	3.3	0.58	5.4	91	35	49
24	e11	e8.2	9.1	11	20	5.3	5.5	0.74	2.8	67	38	51
25	e11	e7.8	8.9	11	212	5.8	3.0	0.74	2.4	68	75	37
26	e11	e7.5	7.2	11	122	3.1	5.8	0.60	2.2	60	132	109
27	e11	e7.2	8.8	89	73	3.9	5.3	0.43	13	58	67	259
28	e11	e6.9	8.7	73	57	6.9	4.2	0.42	8.1	59	83	159
29	12	e6.9	8.8	36	38	3.8	5.1	0.41	17	69	62	112
30	11	e6.8	8.5	25	---	2.8	3.7	0.41	120	64	56	91
31	10	---	7.2	31	---	4.3	---	0.40	---	60	59	---
TOTAL	430	318.4	248.4	524.5	930.2	355.3	280.97	55.95	555.43	2,213.0	2,429	3,966
MEAN	13.9	10.6	8.01	16.9	32.1	11.5	9.37	1.80	18.5	71.4	78.4	132
MAX	35	30	12	89	212	29	64	6.5	120	407	161	469
MIN	10	6.8	6.3	2.7	8.4	2.8	0.97	0.40	0.40	4.4	35	37

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	14.9	9.17	26.7	18.5	20.7	13.9	5.96	2.54	22.0	34.8	43.8	51.3
MAX	41.6	56.7	152	82.5	125	78.8	13.2	5.90	101	71.4	125	132
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(2003)	(2003)	(2004)	(2003)	(2004)
MIN	1.93	1.06	1.08	1.16	0.72	0.46	0.09	0.03	1.24	8.29	13.8	14.7
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(1998)	(1996)	(1996)	(1996)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1994 - 2004

ANNUAL TOTAL	15,163.4	12,307.15	22.0
ANNUAL MEAN	41.5	33.6	56.3
HIGHEST ANNUAL MEAN			1998
LOWEST ANNUAL MEAN			8.66
HIGHEST DAILY MEAN	340	Jun 20	542
LOWEST DAILY MEAN	2.2	May 17	0.00
ANNUAL SEVEN-DAY MINIMUM	2.3	May 13	0.00
MAXIMUM PEAK FLOW			775
MAXIMUM PEAK STAGE			11.61
10 PERCENT EXCEEDS	111		61
50 PERCENT EXCEEDS	17		6.7
90 PERCENT EXCEEDS	4.7		0.57

e Estimated

02306950 BRUSHY CREEK NEAR CITRUS PARK, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.45	2.87	---	2.81	3.79	3.34	2.63	2.60	2.24	3.84	4.55	4.74
2	3.25	---	---	2.82	3.48	3.28	2.51	2.75	2.24	3.30	5.79	3.99
3	3.21	---	---	2.82	3.26	3.08	2.72	2.58	2.24	3.08	5.11	3.67
4	3.01	---	---	2.82	3.15	2.96	2.69	2.75	2.24	3.11	4.80	3.65
5	3.10	---	---	2.73	3.10	3.09	2.58	2.48	2.36	3.09	5.26	4.44
6	2.98	2.96	---	2.49	2.99	3.08	2.52	2.43	2.50	3.67	4.98	10.18
7	2.94	3.34	---	2.76	3.09	3.07	2.53	2.54	2.62	3.31	5.75	9.70
8	2.94	3.07	---	2.51	3.02	2.99	2.47	2.40	3.10	3.14	5.90	7.80
9	2.92	2.98	---	2.61	2.89	3.29	2.57	2.36	2.92	2.94	6.26	7.42
10	2.91	---	---	2.90	2.90	3.21	2.40	2.39	3.73	2.81	5.38	7.11
11	2.92	---	---	2.87	2.82	3.05	2.67	2.58	3.27	2.78	4.89	6.66
12	---	---	---	2.80	2.96	2.88	3.80	2.36	3.00	2.76	4.40	6.29
13	3.19	---	---	2.77	2.80	2.92	3.98	2.57	3.11	2.82	4.25	5.99
14	3.10	---	---	2.80	2.98	2.84	3.38	2.44	4.90	2.89	4.29	5.62
15	2.97	---	2.93	2.78	3.28	2.89	3.05	2.31	3.60	2.65	4.44	5.33
16	2.92	---	2.85	2.65	3.14	2.94	3.01	2.40	3.23	2.82	4.16	5.03
17	---	---	2.90	2.69	3.12	2.96	2.85	2.39	3.09	2.95	4.22	4.75
18	---	---	2.85	3.29	2.92	2.96	2.87	2.54	2.94	5.26	4.59	4.50
19	---	---	2.86	3.28	2.96	2.93	2.68	2.44	2.95	8.20	3.90	4.24
20	---	2.94	2.86	3.08	2.89	2.85	2.65	2.36	2.84	9.51	3.59	4.02
21	2.92	---	2.85	3.02	2.91	2.85	2.62	2.28	2.82	8.42	3.73	3.98
22	---	---	2.84	2.97	2.95	2.80	2.73	2.26	2.80	6.15	3.53	3.98
23	---	---	2.81	2.84	2.97	2.81	2.58	2.28	2.70	5.06	3.53	3.74
24	---	---	2.83	2.91	3.07	2.72	2.71	2.31	2.54	4.52	3.63	3.78
25	---	---	2.82	2.91	6.44	2.75	2.55	2.30	2.51	4.57	4.62	3.55
26	---	---	2.74	2.89	5.03	2.59	2.72	2.28	2.50	4.16	5.77	5.04
27	---	---	2.82	4.41	4.12	2.64	2.70	2.24	2.99	4.05	4.46	7.69
28	---	---	2.82	4.10	3.79	2.82	2.64	2.24	2.82	4.08	4.90	6.23
29	2.92	---	2.82	3.44	3.48	2.64	2.68	2.24	2.94	4.58	4.28	5.44
30	2.89	---	2.81	3.27	---	2.58	2.61	2.24	5.03	4.38	3.92	5.05
31	2.87	---	2.75	3.36	---	2.68	---	2.24	---	4.16	4.04	---
MEAN	---	---	---	2.98	3.32	2.92	2.77	2.41	2.96	4.16	4.61	5.45
MAX	---	---	---	4.41	6.44	3.34	3.98	2.75	5.03	9.51	6.26	10.18
MIN	---	---	---	2.49	2.80	2.58	2.40	2.24	2.24	2.65	3.53	3.55



## 02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL.

LOCATION.--Lat 28°02'12", long 82°34'34" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.23, T.28 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on right bank, 75 ft upstream from concrete control, 2.8 mi downstream from Brushy Creek, 5.8 mi upstream from mouth, and 7.4 mi west of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

DRAINAGE AREA.--43 mi<sup>2</sup> (corrected).

PERIOD OF RECORD.--January 1953 to current year.

REVISED RECORDS.--WSP 1905: 1953-65(P).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Mar. 23, 1971, at site 1,500 ft upstream at datum 0.15 ft lower.

REMARKS.--Records poor. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	7.3	7.5	8.8	67	82	13	5.0	2.2	89	169	238
2	57	7.6	7.5	11	63	73	15	11	2.3	59	258	189
3	51	5.1	7.1	11	52	64	17	7.6	2.7	40	243	159
4	34	5.0	9.0	11	49	52	18	12	3.4	37	210	147
5	31	6.9	10	11	44	51	9.0	5.2	6.2	36	238	179
6	27	11	9.3	5.3	37	49	12	2.9	5.8	88	233	753
7	23	25	8.7	7.9	40	45	8.2	4.0	17	74	247	856
8	22	19	5.9	6.6	36	41	8.0	3.4	33	59	275	497
9	20	16	6.1	8.2	27	44	8.7	2.2	31	57	288	435
10	19	12	8.4	15	27	42	6.6	1.9	59	41	255	431
11	19	8.6	10	16	21	36	9.3	5.4	53	35	218	386
12	20	10	8.0	14	23	27	64	2.9	30	30	197	361
13	38	11	8.5	12	18	24	96	4.4	38	30	176	344
14	32	7.5	13	11	19	21	60	7.0	152	34	179	311
15	22	9.4	19	11	39	23	42	2.8	91	22	191	281
16	13	9.7	13	11	35	25	41	3.7	57	26	179	256
17	13	10	14	8.6	33	22	34	3.6	43	37	179	233
18	9.1	8.2	13	35	25	16	31	7.6	31	132	217	210
19	10	9.0	12	48	24	15	22	3.4	25	381	171	190
20	6.4	14	12	35	19	11	13	5.5	33	611	149	172
21	9.7	11	12	27	22	13	10	2.8	23	629	146	163
22	5.0	8.3	12	25	19	9.5	12	2.5	21	355	143	159
23	6.5	9.9	11	20	21	9.9	11	1.9	16	256	134	141
24	3.7	7.9	11	19	29	8.5	12	2.3	10	210	129	135
25	5.2	6.7	11	20	235	7.4	9.8	2.4	8.4	195	180	124
26	4.9	9.9	9.2	20	238	7.0	12	2.8	7.3	179	295	174
27	4.9	6.6	10	87	145	4.5	8.7	2.6	19	165	233	394
28	5.9	6.9	11	102	112	11	7.5	2.6	19	159	226	321
29	11	7.4	11	57	94	9.5	7.2	2.7	16	180	199	250
30	9.4	6.1	10	41	---	3.9	6.5	2.6	125	173	175	218
31	8.4	---	9.7	44	---	9.7	---	2.5	---	157	173	---
TOTAL	606.1	293.0	319.9	759.4	1,613	856.9	624.5	129.2	980.3	4,576	6,305	8,707
MEAN	19.6	9.77	10.3	24.5	55.6	27.6	20.8	4.17	32.7	148	203	290
MAX	65	25	19	102	238	82	96	12	152	629	295	856
MIN	3.7	5.0	5.9	5.3	18	3.9	6.5	1.9	2.2	22	129	124
CFSM	0.56	0.28	0.29	0.70	1.59	0.79	0.59	0.12	0.93	4.22	5.81	8.29
IN.	0.64	0.31	0.34	0.81	1.71	0.91	0.66	0.14	1.04	4.86	6.70	9.25

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)																																								
	35.9	139	(1996)	2.21	(1971)	16.0	128	(1998)	1.11	(1979)	23.6	327	(1998)	1.13	(2001)	24.4	196	(1998)	2.35	(1957)	28.8	259	(1998)	2.48	(1957)	40.8	298	(1960)	0.70	(2000)	21.0	110	(1987)	0.27	(1967)	13.3	148	(1979)	0.46	(2001)	25.8	180	(2000)	0.21	(2000)	47.8	224	(1960)	1.86	(1955)	90.8	290	(1959)	4.33	(1993)	98.3	396	(1979)	8.31	(1972)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1954 - 2004

ANNUAL TOTAL	28,354.1	25,770.3	
ANNUAL MEAN	77.7	70.4	38.9
HIGHEST ANNUAL MEAN			119
LOWEST ANNUAL MEAN			4.73
HIGHEST DAILY MEAN	596	Jun 23	2,290
LOWEST DAILY MEAN	3.7	Oct 24	0.00
ANNUAL SEVEN-DAY MINIMUM	4.1	May 29	0.00
MAXIMUM PEAK FLOW			2,840
MAXIMUM PEAK STAGE			17.18
ANNUAL RUNOFF (CFSM)	2.22		1.11
ANNUAL RUNOFF (INCHES)	30.14		15.11
10 PERCENT EXCEEDS	206		98
50 PERCENT EXCEEDS	35		13
90 PERCENT EXCEEDS	7.5		2.3

## 02307032 DOUBLE BRANCH AT COUNTRY WAY BOULEVARD NEAR OLDSMAR, FL.

LOCATION.--Lat 28°03'02", long 82°37'37" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.17, T.28 S., R.17E., Hillsborough County, Hydrologic Unit 03100206, on right bank, on downstream side of culvert, on Countryway Boulevard, and 2.5 mi northeast of Oldsmar.

DRAINAGE AREA.--0.90 mi<sup>2</sup>.

PERIOD OF RECORD.--May 2001 to current year (gage heights only).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).

REMARKS.--Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.23 ft, Sept. 5, 2002; minimum, 4.16 ft, May 9-12, 14, 16, 2002.

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 10.83 ft, Sept. 6; minimum, 4.42 ft, May 16, 17.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.02	4.79	4.75	4.87	6.46	5.63	4.58	4.56	4.46	5.29	7.84	6.13
2	5.87	4.79	4.75	4.83	6.04	5.50	4.61	4.58	4.47	5.67	8.61	5.80
3	5.70	4.78	4.76	4.74	5.80	5.42	4.67	4.72	4.49	5.80	7.57	5.56
4	5.55	4.78	4.75	4.74	5.61	5.35	4.70	4.77	4.49	5.50	7.23	5.40
5	5.44	4.81	4.78	4.74	5.41	5.28	4.62	4.65	4.50	5.73	7.53	6.40
6	5.36	4.90	4.80	4.74	5.28	5.21	4.65	4.57	4.52	6.07	7.31	10.18
7	5.30	4.89	4.79	4.70	5.17	5.18	4.68	4.52	4.64	5.99	7.03	9.77
8	5.24	4.84	4.80	4.68	5.06	5.08	4.72	4.49	4.95	5.89	6.63	8.27
9	5.18	4.80	4.78	4.81	4.99	5.03	4.72	4.47	5.10	5.46	6.57	8.14
10	5.15	4.76	4.80	5.08	4.91	5.10	4.71	4.46	5.92	5.17	6.38	7.79
11	5.12	4.73	4.77	4.94	4.88	5.12	4.78	4.45	6.40	4.96	5.98	7.30
12	5.09	4.70	4.75	4.88	4.87	5.07	6.67	4.45	5.34	4.81	5.73	6.94
13	5.06	4.68	4.75	4.81	4.87	4.94	6.22	4.44	5.76	4.72	5.61	6.80
14	5.03	4.66	5.12	4.77	5.10	4.87	5.67	4.44	7.48	4.66	5.92	6.57
15	4.93	4.64	5.12	4.76	5.70	4.89	5.46	4.44	5.87	4.62	6.52	6.43
16	4.86	4.64	5.02	4.78	5.45	5.18	5.28	4.43	5.45	4.69	6.18	6.25
17	4.80	4.64	4.99	4.80	5.29	5.11	5.15	4.43	5.17	5.09	5.81	6.09
18	4.75	4.64	4.91	5.70	5.16	4.97	5.05	4.49	4.94	---	5.59	5.95
19	4.72	4.95	4.89	5.70	5.04	4.88	4.98	4.51	4.98	---	5.43	5.80
20	4.70	4.96	4.92	5.46	4.96	4.81	4.94	4.48	5.44	---	5.27	5.68
21	4.72	4.86	4.98	5.24	4.93	4.77	4.89	4.47	5.24	---	5.22	5.89
22	4.74	4.81	5.05	5.07	4.88	4.74	4.84	4.47	5.04	7.25	5.32	5.74
23	4.73	4.77	5.06	4.97	4.85	4.69	4.83	4.46	4.90	6.70	5.18	5.60
24	4.72	4.76	5.08	4.95	5.60	4.66	4.81	4.46	4.81	6.30	5.15	5.50
25	4.71	4.79	5.09	4.96	9.09	4.65	4.79	4.51	4.69	6.17	5.54	5.43
26	4.74	4.79	4.99	4.90	7.44	4.63	4.75	4.53	4.66	5.90	7.37	7.25
27	4.74	4.78	4.92	7.35	6.64	4.61	4.74	4.53	4.65	5.81	6.37	9.03
28	4.80	4.81	4.88	6.27	6.18	4.60	4.67	4.53	4.64	6.08	5.93	7.76
29	4.93	4.81	4.79	5.88	5.86	4.60	4.60	4.52	5.19	6.45	5.68	7.25
30	4.88	4.80	4.83	5.75	---	4.59	4.58	4.51	5.89	5.92	5.75	6.85
31	4.81	---	4.86	5.90	---	4.59	---	4.45	---	5.64	5.95	---
MEAN	5.04	4.78	4.89	5.15	5.57	4.96	4.95	4.51	5.14	---	6.26	6.79
MAX	6.02	4.96	5.12	7.35	9.09	5.63	6.67	4.77	7.48	---	8.61	10.18
MIN	4.70	4.64	4.75	4.68	4.85	4.59	4.58	4.43	4.46	---	5.15	5.40
*PREC	0.80	1.25	1.04	6.01	4.92	0.71	3.15	0.92	11.53	13.09	10.57	8.75

\* Precipitation, total, inches

## 02307200 BROOKER CREEK AT VAN DYKE ROAD NEAR CITRUS PARK, FL.

LOCATION.--Lat 28°07'34", long 82°34'14" (1927 North American datum), in NE $\frac{1}{4}$  sec.23, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, at left wingwall on downstream side of box culverts on State Highway 685A (Van Dyke Road), 0.3 mi east of State Highway 587, and 3.4 mi north of Citrus Park.

DRAINAGE AREA.--5.01 mi<sup>2</sup>.

PERIOD OF RECORD.--April 1981 to current year. Prior to October 1984, mean daily discharges published in U. S. Geological Survey Open-File Report 86-55.

GAGE.--Water-stage recorder. Datum of gage is 30.72 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	0.39	0.09	0.08	3.3	13	0.20	0.07	0.00	0.03	16	4.2
2	12	0.34	0.09	0.08	3.3	12	0.17	0.07	0.00	0.03	18	3.2
3	11	0.32	0.08	0.08	3.1	10	0.16	0.07	0.00	0.04	16	2.3
4	9.4	0.30	0.08	0.07	3.0	8.6	0.12	0.08	0.00	0.03	15	1.9
5	8.2	0.30	0.08	0.07	2.8	7.1	0.10	0.07	0.00	0.85	15	6.8
6	7.4	0.38	0.08	0.07	2.7	5.9	0.09	0.06	0.00	4.2	14	48
7	6.5	0.49	0.08	0.06	2.4	5.1	0.09	0.05	0.00	1.4	15	58
8	5.9	0.49	0.07	0.06	2.0	4.4	0.08	0.03	0.00	0.46	15	68
9	4.9	0.44	0.07	0.06	1.8	3.6	0.08	0.02	0.00	0.19	15	137
10	4.0	0.43	0.07	0.09	1.6	3.0	0.07	0.01	0.00	0.11	15	94
11	3.5	0.40	0.07	0.09	1.5	2.5	0.08	0.00	0.00	0.08	14	60
12	3.1	0.34	0.07	0.09	1.3	2.1	2.4	0.00	0.00	0.07	13	46
13	2.7	0.29	0.06	0.09	1.2	1.8	2.9	0.00	0.00	0.07	13	38
14	2.3	0.26	0.15	0.08	1.7	1.7	1.4	0.00	0.05	0.07	14	33
15	2.0	0.22	0.24	0.08	3.7	1.7	0.90	0.00	0.06	0.06	17	29
16	1.7	0.20	0.18	0.08	2.9	3.7	0.63	0.00	0.05	0.07	16	26
17	1.4	0.17	0.17	0.07	2.5	3.3	0.50	0.00	0.03	0.08	15	23
18	1.1	0.16	0.14	0.23	2.2	2.5	0.41	0.00	0.02	1.3	14	20
19	0.90	0.27	0.12	0.40	1.9	2.1	0.32	0.00	0.01	11	13	18
20	0.70	0.28	0.10	0.36	1.7	1.7	0.27	0.00	0.00	27	12	15
21	0.58	0.23	0.10	0.27	1.6	1.5	0.22	0.00	0.00	28	11	15
22	0.48	0.20	0.09	0.22	1.5	1.2	0.18	0.00	0.00	23	9.6	14
23	0.42	0.19	0.09	0.18	1.4	1.00	0.14	0.00	0.00	20	7.3	12
24	0.35	0.18	0.09	0.15	2.9	0.79	0.11	0.00	0.00	18	5.6	9.9
25	0.29	0.21	0.09	0.13	19	0.67	0.09	0.00	0.00	19	5.7	8.1
26	0.26	0.20	0.09	0.12	18	0.58	0.09	0.00	0.00	18	10	18
27	0.27	0.18	0.09	2.4	16	0.48	0.09	0.00	0.00	18	7.7	35
28	0.33	0.16	0.09	2.4	15	0.41	0.08	0.00	0.00	19	6.9	30
29	0.53	0.14	0.09	1.4	14	0.35	0.08	0.00	0.00	18	5.6	27
30	0.50	0.10	0.08	1.1	---	0.29	0.07	0.00	0.01	18	5.5	24
31	0.42	---	0.08	1.5	---	0.24	---	0.00	---	16	5.5	---
TOTAL	106.13	8.26	3.07	12.16	136.0	103.31	12.12	0.53	0.23	262.14	375.4	924.4
MEAN	3.42	0.28	0.10	0.39	4.69	3.33	0.40	0.02	0.01	8.46	12.1	30.8
MAX	13	0.49	0.24	2.4	19	13	2.9	0.08	0.06	28	18	137
MIN	0.26	0.10	0.06	0.06	1.2	0.24	0.07	0.00	0.00	0.03	5.5	1.9
AC-FT	211	16	6.1	24	270	205	24	1.1	0.5	520	745	1,830

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

MEAN	3.54	1.58	3.64	3.18	3.23	4.07	2.15	0.28	1.88	3.31	6.40	11.3
MAX	14.4	13.9	34.3	17.7	20.5	19.0	16.1	1.46	19.8	15.4	24.3	41.5
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1987)	(1987)	(2003)	(2003)	(1982)	(2003)	(1988)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1985)	(1988)	(1992)	(1993)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1982 - 2004

ANNUAL TOTAL	3,075.47	1,943.75		
ANNUAL MEAN	8.43	5.31	3.71	
HIGHEST ANNUAL MEAN			11.7	1998
LOWEST ANNUAL MEAN			0.30	1992
HIGHEST DAILY MEAN	66	Jun 22	137	Sep 9
LOWEST DAILY MEAN	0.06	Dec 13	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.07	Dec 7	0.00	May 11
MAXIMUM PEAK FLOW			144	Sep 9
MAXIMUM PEAK STAGE			20.80	Sep 9
ANNUAL RUNOFF (AC-FT)	6,100	3,860	2,690	21.53
10 PERCENT EXCEEDS	24	16	11	
50 PERCENT EXCEEDS	3.0	0.36	0.40	
90 PERCENT EXCEEDS	0.18	0.00	0.00	

## 02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL.

LOCATION.--Lat 28°05'45", long 82°41'15" (1927 North American datum), in NE $\frac{1}{4}$  sec.34, T.27 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on right bank, 1.9 mi upstream from mouth, and 5 mi southeast of Tarpon Springs.

DRAINAGE AREA.--30 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1950 to current year.

REVISED RECORDS.--WRD FL 1969: 1968(M).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	1.2	0.73	0.74	25	45	2.5	0.46	0.00	4.6	69	56
2	42	0.98	0.68	0.79	28	38	2.0	1.1	0.00	10	71	49
3	40	0.79	0.61	0.71	26	33	1.6	1.5	0.00	11	68	40
4	38	0.78	0.57	0.68	22	29	1.3	1.7	0.00	6.2	75	33
5	37	0.98	0.47	0.73	18	27	1.1	1.5	0.00	3.5	102	35
6	35	1.4	0.42	0.66	18	25	0.93	1.3	0.00	2.3	100	242
7	33	1.4	0.33	0.71	25	24	0.82	1.2	0.00	2.0	104	606
8	29	1.3	0.35	0.64	30	23	0.74	1.0	0.00	2.2	137	566
9	24	1.2	0.29	0.73	31	21	0.69	0.89	0.24	1.9	141	480
10	19	1.2	0.25	1.1	30	20	0.61	0.77	0.53	1.5	116	364
11	14	1.0	0.23	1.1	27	19	0.70	0.64	0.40	1.2	92	260
12	11	0.98	0.23	1.2	25	18	8.1	0.50	0.35	0.97	75	218
13	9.5	0.91	0.22	1.2	22	17	19	0.40	1.2	0.78	63	272
14	7.9	0.78	0.70	1.2	22	16	25	0.26	5.8	0.62	76	273
15	6.7	0.65	1.2	1.2	30	15	23	0.16	4.3	0.52	177	243
16	6.5	0.57	1.2	1.1	30	19	18	0.13	2.4	4.1	179	209
17	7.2	0.48	1.3	1.1	27	24	14	0.08	1.4	8.7	140	180
18	7.9	0.43	1.2	4.8	22	25	10	0.06	0.89	45	107	161
19	7.5	0.94	1.1	9.1	18	25	7.6	0.04	0.71	119	85	144
20	6.6	1.2	1.0	11	15	24	5.5	0.04	1.6	334	69	e122
21	5.2	1.1	0.99	11	12	22	4.4	0.03	1.5	370	60	e115
22	4.0	0.97	0.92	9.0	12	19	3.4	0.02	1.0	221	53	e115
23	3.1	0.83	0.88	7.4	14	16	2.6	0.02	0.69	136	48	e108
24	2.3	0.83	0.78	6.0	20	13	1.8	0.01	0.48	91	42	e104
25	1.7	1.2	0.74	4.8	74	11	1.4	0.01	0.31	65	39	e95
26	1.3	1.2	0.73	4.1	103	9.5	1.2	0.00	0.40	52	e50	e133
27	1.2	1.2	0.57	17	90	7.9	0.98	0.00	0.50	41	e68	e294
28	1.2	1.1	0.64	25	70	6.3	0.84	0.00	0.32	35	e69	e259
29	1.6	1.0	0.85	25	55	5.1	0.70	0.00	1.0	38	e65	185
30	1.6	0.88	0.82	21	---	4.1	0.55	0.00	4.3	51	e61	162
31	1.5	---	0.76	18	---	3.2	---	0.00	---	62	e57	---
TOTAL	450.5	29.48	21.76	188.79	941	604.1	161.06	13.82	30.32	1,722.09	2,658	6,123
MEAN	14.5	0.98	0.70	6.09	32.4	19.5	5.37	0.45	1.01	55.6	85.7	204
MAX	44	1.4	1.3	25	103	45	25	1.7	5.8	370	179	606
MIN	1.2	0.43	0.22	0.64	12	3.2	0.55	0.00	0.00	0.52	39	33
CFSM	0.48	0.03	0.02	0.20	1.08	0.65	0.18	0.01	0.03	1.85	2.86	6.80
IN.	0.56	0.04	0.03	0.23	1.17	0.75	0.20	0.02	0.04	2.14	3.30	7.59

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	19.6	6.55	11.1	11.8	15.3	23.7	10.9	2.75	6.42	20.4	45.0	52.0
MAX	80.1	33.4	159	85.9	140	255	101	49.0	92.6	152	276	279
(WY)	(1954)	(1998)	(1998)	(1998)	(1998)	(1960)	(1959)	(1979)	(1974)	(1960)	(1959)	(1959)
MIN	0.01	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.02	0.69
(WY)	(1973)	(1979)	(2001)	(2001)	(2001)	(2000)	(1956)	(1956)	(1951)	(1971)	(1993)	(1993)

## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## FOR 2004 WATER YEAR

## WATER YEARS 1951 - 2004

ANNUAL TOTAL	13,240.01	12,943.92	
ANNUAL MEAN	36.3	35.4	18.8
HIGHEST ANNUAL MEAN			86.8
LOWEST ANNUAL MEAN			1.97
HIGHEST DAILY MEAN	385	Aug 11	606
LOWEST DAILY MEAN	0.00	Many Days	0.00
ANNUAL SEVEN-DAY MINIMUM	0.00	May 30	0.00
MAXIMUM PEAK FLOW			638
MAXIMUM PEAK STAGE			12.45
ANNUAL RUNOFF (CFSM)	1.21	1.18	13.32
ANNUAL RUNOFF (INCHES)	16.42	16.05	8.52
10 PERCENT EXCEEDS	110	104	50
50 PERCENT EXCEEDS	11	4.4	2.9
90 PERCENT EXCEEDS	0.24	0.35	0.00

e Estimated

## 02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL.—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, ftrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, ftrd, mg/L (00915)	Magnesium, water, ftrd, mg/L (00925)	Potassium, water, ftrd, mg/L (00935)	Sodium, water, ftrd, mg/L (00930)
NOV 24...	1007	8.18	.80	200	--	1.6	6.8	322	18.2	27.0	3.60	4.70	22.0
JAN 13...	0755	8.31	1.2	160	--	11.3	7.3	187	11.2	16.0	2.90	2.70	14.0
JUN 09...	1126	7.81	.30	70	--	4.2	6.8	447	24.9	43.0	4.40	4.20	33.0
AUG 30...	1240	8.67	4.6	120	--	4.2	6.8	329	25.7	34.0	3.00	2.30	23.0
AUG 04...	1206	10.87	68	250	--	4.0	6.3	106	26.4	9.97	1.50	2.16	7.58
SEP 09...	1015	12.26	475	250	763	1.5	6.2	86	26.6	9.15	1.22	2.29	5.27

Date	Chloride, water, ftrd, mg/L (00940)	Fluoride, water, ftrd, mg/L (00950)	Silica, water, ftrd, mg/L (00955)	Sulfate water, ftrd, mg/L (00945)	Residue on evap. at 180degC wat ftrd mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, ftrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water ftrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, ftrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, ftrd, mg/L as P (00671)
NOV 24...	48.0	.1	9.70	9.00	223	1.2	--	.04	--	.130	--	.01	--
JAN 13...	37.0	<.1	9.70	3.80	155	1.1	--	.02	--	<.020	--	<.01	--
JUN 09...	69.0	.1	3.30	21.0	293	1.5	--	.25	--	.170	--	<.01	--
AUG 30...	49.0	.1	3.50	12.0	238	1.1	--	.08	--	<.020	--	<.01	--
AUG 04...	15.3	<.2	3.81	5.2	127	--	E.02	--	E.04	--	E.005	--	E.01
SEP 09...	9.88	<.2	3.22	2.1	97	--	E.03	--	<.06	--	<.008	--	.04

Date	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfiltered, by analysis, mg/L (62855)	Strontium, water, ftrd, ug/L (01080)
NOV 24...	.080	.09	--	88.0
JAN 13...	.010	.02	--	52.0
JUN 09...	.060	.10	--	110
AUG 30...	.030	.07	--	95.0
AUG 04...	--	.05	1.20	34.1
SEP 09...	--	.10	1.02	27.9

Remark codes used in this table:

< -- Less than  
E -- Estimated value

## 02307498 LAKE TARPON CANAL AT S-551, NEAR OLDSMAR, FL.

LOCATION.--Lat 28° 03' 10", long 82° 42' 34" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec. 16, T.28 S., R. 16 E., Pinellas County, Hydrologic Unit 03100206, on right bank of outfall canal at control structure, 300 ft east of State Highway 593, 1,500 ft north of State Highway 586, and 3.4 mi northwest of Oldsmar.

DRAINAGE AREA.--65 mi<sup>2</sup>, approximately.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1971 to September 1974 (gage heights only); October 1974 to June 1990; October 2000 to current year.

GAGE.--Dual water-stage recorder and tipping bucket raingage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor. Flow regulated at station by manipulation of vertical lift gates and slide gates. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

COOPERATION.--Records of gate operations furnished by southwest Florida Water Management District.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	21	9.9	16	55	99	31	19	0.00	5.7	80	223
2	45	19	8.6	15	68	103	26	38	0.00	7.7	111	1,060
3	49	16	6.9	15	75	85	22	53	0.00	12	159	960
4	52	14	5.7	15	76	86	20	58	0.00	13	421	317
5	55	16	8.8	16	71	85	16	50	0.00	13	397	0.00
6	58	21	13	19	66	86	13	44	0.00	12	354	151
7	64	20	5.1	18	84	87	11	40	0.00	17	332	1,230
8	68	20	3.5	12	73	90	9.7	35	0.00	62	322	1,320
9	68	21	2.3	14	68	76	11	32	0.00	60	337	744
10	65	17	3.0	30	68	77	11	28	0.00	56	320	829
11	62	13	6.6	23	68	66	12	26	0.00	51	617	727
12	64	12	2.8	21	68	63	65	23	0.00	48	1,100	414
13	62	13	2.1	20	70	60	89	22	0.22	44	705	89
14	61	9.3	14	20	74	57	95	19	0.55	42	0.00	0.00
15	62	5.7	20	21	106	59	78	17	0.42	40	0.93	52
16	51	5.2	19	22	105	76	73	14	2.0	43	37	157
17	49	4.9	26	19	105	100	68	13	2.7	48	79	756
18	48	2.9	19	45	95	77	64	12	2.4	e1,220	145	465
19	45	14	23	67	82	72	62	11	1.7	e652	415	15
20	41	14	20	72	78	68	57	9.2	2.5	e1,300	161	344
21	40	11	15	68	75	67	51	7.8	1.8	e478	65	0.00
22	38	11	14	67	74	69	47	6.0	1.1	25	76	6.7
23	36	9.5	14	66	67	57	45	4.5	0.52	106	82	341
24	32	10	16	60	110	54	42	3.1	0.44	348	104	316
25	28	15	13	56	548	46	36	2.3	0.12	577	398	315
26	25	14	e14	51	467	43	33	1.6	0.09	488	360	372
27	22	13	e8.9	501	63	40	35	0.44	0.20	177	220	239
28	23	18	e9.5	288	79	40	29	0.03	0.11	33	30	607
29	31	17	9.3	7.3	90	38	25	0.00	1.5	42	43	618
30	25	10	14	11	---	35	23	0.00	4.4	55	57	356
31	22	---	15	27	---	33	---	0.00	---	64	76	---
TOTAL	1,428	407.5	362.0	1,702.3	3,128	2,094	1,199.7	588.97	22.77	6,139.4	7,603.93	13,023.70
MEAN	46.1	13.6	11.7	54.9	108	67.5	40.0	19.0	0.76	198	245	434
MAX	68	21	26	501	548	103	95	58	4.4	1,300	1,100	1,320
MIN	22	2.9	2.1	7.3	55	33	9.7	0.00	0.00	5.7	0.00	0.00
*PREC	1.53	1.28	---	5.51	---	---	3.34	1.45	7.13	---	9.85	5.44

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2004, BY WATER YEAR (WY)

	27.8	19.1	27.7	35.6	45.7	49.9	20.1	12.5	27.9	68.8	110	156
MEAN	27.8	19.1	27.7	35.6	45.7	49.9	20.1	12.5	27.9	68.8	110	156
MAX	181	153	309	123	193	200	108	163	189	198	281	447
(WY)	(1976)	(1989)	(2003)	(1984)	(1983)	(1987)	(1987)	(1979)	(1982)	(2004)	(2003)	(1979)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	6.56	1.23
(WY)	(2001)	(1975)	(1975)	(1975)	(2001)	(2001)	(1975)	(1975)	(1981)	(1977)	(1975)	(1978)

## SUMMARY STATISTICS

	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1975 - 2004	
ANNUAL TOTAL	35,169.14		37,700.27			
ANNUAL MEAN	96.4		103		50.8	
HIGHEST ANNUAL MEAN					129	
LOWEST ANNUAL MEAN					17.6	
HIGHEST DAILY MEAN	1,480	Aug 11	1,320	Sep 8	2,290	Sep 9, 1988
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	May 31	0.00	May 29	0.00	Oct 24, 1974
10 PERCENT EXCEEDS	269		334		111	
50 PERCENT EXCEEDS	40		38		1.5	
90 PERCENT EXCEEDS	3.8		1.9		0.00	

e Estimated

\* Precipitation, total, inches

02307498 LAKE TARPON CANAL AT S-551, NEAR OLDSMAR, FL.—Continued

## WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1972 to current year (incomplete).

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfiltered, uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	
Date	Time	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)
JUN 2004	09...	1310	40	--	4.0	7.2	978	30.4	43.0	12.0	5.70	110	220	.2
SEP 09...	0945	200	763	3.4	7.0	258	27.7	19.5	2.87	2.52	23.3	47.9	<.2	
JUN 2004	09...	3.20	34.0	560	.80	--	.02	--	<.020	--	<.01	--	<.010	.04
SEP 09...	3.63	7.6	160	--	<.04	--	<.06	--	<.008	--	E.01	--	.08	

Date	Total nitrogen, wat unfiltered by analysis, mg/L (62855)	Strontium, water, fltrd, ug/L (01080)
JUN 2004	09... --	210
SEP 09...	.97	82.8

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

## 02307668 ALLIGATOR CREEK BELOW BELCHER ROAD AT CLEARWATER, FL.

LOCATION.--Lat 27° 58'46", long 82° 44'33" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.7, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on right bank in Long Center recreation area, 0.6 mi north of the intersection of Coachman and Belcher Roads in Clearwater, and 5.0 mi east of Clearwater City Hall in Clearwater.

SURFACE AREA.--3.67 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1995 to September 1996; October 2003 to September 2004. Re-established September 29, 2003.

GAGE.--Water-stage recorder. Datum of gage is 25.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	1.3	0.38	0.48	11	8.5	0.93	0.91	0.56	3.0	22	25
2	3.7	1.3	0.36	0.48	6.9	8.2	0.84	6.0	0.70	2.6	61	14
3	2.5	1.6	0.36	0.49	5.8	7.6	0.81	5.9	0.83	1.9	28	9.9
4	2.1	1.1	0.39	0.50	5.1	7.2	0.81	2.7	0.94	2.4	32	8.7
5	1.7	2.9	0.46	0.48	4.6	7.0	0.81	1.6	0.79	1.7	18	16
6	1.6	1.5	0.57	0.52	4.7	6.5	0.81	1.2	0.63	1.6	16	154
7	1.7	1.3	0.61	0.54	4.9	6.2	0.73	1.1	0.58	2.0	47	35
8	1.2	1.1	0.63	0.51	4.6	6.0	0.78	1.0	0.86	1.5	44	21
9	1.2	1.3	0.63	3.2	4.5	5.3	0.81	1.0	0.95	1.2	23	17
10	1.3	1.3	0.65	0.92	4.6	5.2	0.83	1.0	12	0.81	16	13
11	1.3	1.3	1.0	0.54	4.5	5.2	6.0	1.0	5.8	0.95	12	12
12	1.9	1.3	1.1	0.48	4.4	5.1	21	1.0	2.8	1.0	e11	10
13	1.4	1.6	1.3	0.44	4.2	4.7	9.5	1.0	4.9	1.1	e13	8.9
14	1.3	1.6	4.9	0.47	8.0	4.2	5.8	1.0	5.9	1.4	e23	8.0
15	1.3	1.6	0.87	0.45	7.1	4.8	4.6	1.0	3.8	1.6	e36	7.7
16	1.3	1.6	0.53	0.47	6.1	6.6	3.5	4.4	2.4	2.1	e21	7.1
17	1.3	1.6	0.57	0.46	5.9	3.6	2.7	1.3	1.7	e27	11	6.6
18	1.4	1.6	0.55	13	5.5	2.9	2.3	0.93	1.6	e14	9.2	5.9
19	1.5	7.5	0.48	6.3	5.0	2.5	2.0	1.6	1.5	e38	8.0	5.7
20	1.4	1.3	0.48	2.8	4.9	2.2	1.9	1.1	1.3	e180	11	5.7
21	1.3	0.77	0.44	1.6	4.8	2.1	1.7	0.81	1.2	39	8.8	6.0
22	1.4	0.53	0.42	1.2	4.8	1.7	1.6	0.71	1.3	24	7.5	5.3
23	1.5	0.48	0.40	1.0	5.0	1.3	1.4	0.64	1.1	18	6.4	4.2
24	1.4	0.45	0.42	0.79	21	1.2	1.3	0.63	1.5	21	6.0	3.8
25	1.3	0.48	0.48	0.55	38	1.6	1.3	0.65	2.4	17	16	3.8
26	1.5	0.48	0.41	0.51	18	1.5	1.3	0.56	1.6	16	23	61
27	1.5	0.42	0.40	20	13	1.4	1.3	0.57	1.7	14	17	28
28	2.2	0.50	0.46	7.2	11	0.99	1.1	0.53	1.8	14	10	15
29	1.4	0.43	0.48	5.6	9.3	1.2	0.85	0.63	6.6	13	8.3	12
30	1.2	0.41	0.48	5.3	---	1.0	0.87	0.65	5.0	12	12	10
31	1.3	---	0.48	8.3	---	0.95	---	0.52	---	11	10	---
TOTAL	52.8	40.65	21.69	85.58	237.2	124.44	80.18	43.64	74.74	484.86	587.2	540.3
MEAN	1.70	1.35	0.70	2.76	8.18	4.01	2.67	1.41	2.49	15.6	18.9	18.0
MAX	5.7	7.5	4.9	20	38	8.5	21	6.0	12	180	61	154
MIN	1.2	0.41	0.36	0.44	4.2	0.95	0.73	0.52	0.56	0.81	6.0	3.8
MED	1.4	1.3	0.48	0.54	5.1	4.2	1.3	1.0	1.5	3.0	16	10
AC-FT	105	81	43	170	470	247	159	87	148	962	1,160	1,070
CFSM	0.46	0.37	0.19	0.75	2.23	1.09	0.73	0.38	0.68	4.26	5.16	4.91
IN.	0.54	0.41	0.22	0.87	2.40	1.26	0.81	0.44	0.76	4.91	5.95	5.48

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996	1996
MEAN	5.92	1.90	1.61	4.16	8.48	5.25	5.18	2.95	2.92	9.97	13.0	11.0
MAX	11.1	2.44	2.51	5.57	8.77	6.49	7.69	4.48	3.35	15.6	18.9	18.0
(WY)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(1996)	(2004)	(2004)	(2004)
MIN	1.70	1.35	0.70	2.76	8.18	4.01	2.67	1.41	2.49	4.30	7.07	3.95
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(1996)	(1996)	(1996)

## SUMMARY STATISTICS

	FOR 2004 WATER YEAR	WATER YEARS 1996 - 2004
ANNUAL TOTAL	2,373.28	
ANNUAL MEAN	6.48	6.06
HIGHEST ANNUAL MEAN		6.48
LOWEST ANNUAL MEAN		5.64
HIGHEST DAILY MEAN	180	180
LOWEST DAILY MEAN	0.36	0.36
ANNUAL SEVEN-DAY MINIMUM	0.40	0.40
MAXIMUM PEAK FLOW	538	557
MAXIMUM PEAK STAGE	*8.04	8.30
ANNUAL RUNOFF (AC-FT)	4,710	4,390
ANNUAL RUNOFF (CFSM)	1.77	1.65
ANNUAL RUNOFF (INCHES)	24.06	22.44
10 PERCENT EXCEEDS	16	14
50 PERCENT EXCEEDS	1.6	2.8
90 PERCENT EXCEEDS	0.50	0.66

e Estimated

\* From high water mark



## 02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL.

LOCATION.--Lat 27° 58'30", long 82° 43'39" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.8, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on right bank, 700 ft east of U. S. Highway 19, 1.0 mi north of State Highway 60, 1.8 mi upstream from mouth, and 5.3 mi east of City Hall in Clearwater.

DRAINAGE AREA.--6.17 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1982 to September 1987; October 1995 to September 1996; July 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 8.52 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1983, at present site at datum 2.04 ft higher; Oct. 1, 1983, to Sept. 30, 1987, at present site at datum 1.64 ft lower; Oct. 1, 1995 to Sept. 30, 1996, at present site at datum 5.83 ft lower.

REMARKS.--Records good. The maximum peak stage published prior to 2004 water year has been adjusted to present datum. The correct stage is 10.63 ft. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	3.0	1.4	2.0	29	14	1.6	2.4	1.8	4.1	30	35
2	14	2.9	1.5	2.0	15	13	1.4	19	1.3	3.0	94	33
3	10	3.6	1.4	2.0	11	11	1.4	19	1.3	2.2	64	20
4	8.1	3.4	1.5	2.0	8.7	10	1.3	12	1.3	2.2	66	16
5	6.8	6.2	1.6	2.0	7.4	9.3	1.2	7.3	1.2	2.0	40	29
6	6.2	7.5	1.5	1.9	6.4	8.3	1.2	5.5	1.2	1.6	36	252
7	11	4.9	1.5	1.9	5.6	7.7	1.2	4.5	1.1	4.0	82	109
8	7.5	4.5	1.6	1.7	4.8	6.9	1.2	3.7	1.2	3.9	97	51
9	6.4	3.9	1.8	7.2	4.3	6.1	1.2	3.3	1.4	2.2	67	41
10	5.7	3.4	1.9	6.0	4.0	5.5	1.1	3.0	24	1.3	38	36
11	5.4	3.0	1.8	2.1	3.7	5.2	7.5	2.8	17	0.90	29	29
12	7.4	2.8	1.6	1.1	3.5	4.9	58	2.5	6.1	0.79	24	25
13	7.0	2.7	1.6	0.74	3.3	4.5	32	2.4	5.1	0.84	25	21
14	5.9	2.8	10	0.54	9.4	4.0	17	2.3	17	0.71	40	19
15	5.3	3.0	3.4	0.56	11	4.7	12	2.2	6.4	1.3	55	18
16	4.5	3.0	1.2	0.45	6.8	12	9.5	7.6	3.2	1.7	40	16
17	4.1	2.8	0.89	0.30	5.3	8.8	7.7	6.7	1.9	47	30	14
18	3.9	2.6	1.1	42	4.4	6.6	6.7	4.3	0.95	29	24	12
19	3.7	20	0.80	26	3.8	5.4	5.8	3.6	0.63	92	20	11
20	3.9	7.6	0.48	16	3.3	4.7	5.2	5.2	0.56	265	22	9.5
21	3.9	2.1	0.53	9.3	3.0	4.1	4.6	3.4	0.32	108	19	10
22	3.8	1.2	0.75	6.7	2.7	3.5	4.3	2.8	0.44	45	16	8.4
23	4.8	0.81	0.86	5.2	2.5	3.0	4.0	2.2	0.60	31	13	7.2
24	5.4	0.60	1.00	4.1	27	2.7	3.7	2.2	1.9	30	10	6.1
25	5.6	0.96	1.5	3.7	124	2.6	3.3	1.9	2.0	28	20	5.6
26	4.6	1.3	1.7	3.0	42	2.5	3.1	1.8	1.5	23	45	72
27	4.2	0.94	2.0	49	27	2.2	3.0	1.7	1.7	20	31	69
28	4.9	0.95	1.9	18	21	2.0	2.8	1.4	1.6	20	20	32
29	7.0	0.95	2.0	11	17	2.0	2.7	0.90	7.7	18	16	24
30	4.4	1.2	2.1	9.3	---	1.9	2.5	1.3	11	15	22	19
31	3.5	---	2.0	14	---	1.7	---	1.3	---	11	20	---
TOTAL	204.9	104.61	54.91	251.79	416.9	180.8	208.2	140.20	123.40	814.74	1,155	1,049.8
MEAN	6.61	3.49	1.77	8.12	14.4	5.83	6.94	4.52	4.11	26.3	37.3	35.0
MAX	26	20	10	49	124	14	58	19	24	265	97	252
MIN	3.5	0.60	0.48	0.30	2.5	1.7	1.1	0.90	0.32	0.71	10	5.6
AC-FT	406	207	109	499	827	359	413	278	245	1,620	2,290	2,080
CFSM	1.07	0.57	0.29	1.32	2.33	0.95	1.12	0.73	0.67	4.26	6.04	5.67
IN.	1.24	0.63	0.33	1.52	2.51	1.09	1.26	0.85	0.74	4.91	6.96	6.33
*PREC	0.89	1.77	0.93	5.85	4.49	0.65	2.68	2.68	4.70	11.62	11.70	9.43

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

	8.81	3.75	7.35	6.97	9.52	10.6	6.28	3.81	11.6	20.0	21.8	19.7
MEAN	8.81	3.75	7.35	6.97	9.52	10.6	6.28	3.81	11.6	20.0	21.8	19.7
MAX	17.3	7.80	42.2	15.8	24.6	37.0	13.9	9.11	38.0	40.5	37.3	36.7
(WY)	(1996)	(1984)	(2003)	(2003)	(1983)	(1987)	(1987)	(1996)	(2003)	(1987)	(2004)	(1985)
MIN	2.01	1.24	1.14	1.25	1.42	1.28	0.50	0.02	2.09	6.98	10.2	5.81
(WY)	(2001)	(2001)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(1996)	(2000)	(1996)

## 02307671 ALLIGATOR CREEK BELOW U. S. HIGHWAY 19 AT CLEARWATER, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1982 - 2004	
ANNUAL TOTAL	5,149.22		4,705.25			
ANNUAL MEAN	14.1		12.9		10.9	
HIGHEST ANNUAL MEAN					17.5	2003
LOWEST ANNUAL MEAN					5.05	2000
HIGHEST DAILY MEAN	119	Jun 22	265	Jul 20	272	Mar 30, 1987
LOWEST DAILY MEAN	0.48	Dec 20	0.30	Jan 17	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.77	Dec 17	0.77	Jun 17	0.00	May 22, 2002
MAXIMUM PEAK FLOW			499	Jul 20	536	Jul 20, 1987
MAXIMUM PEAK STAGE			10.51	Jul 20	**10.63	Aug 10, 1982
ANNUAL RUNOFF (AC-FT)	10,210		9,330		7,890	
ANNUAL RUNOFF (CFSM)	2.29		2.08		1.76	
ANNUAL RUNOFF (INCHES)	31.05		28.37		23.97	
10 PERCENT EXCEEDS	31		30		25	
50 PERCENT EXCEEDS	7.4		4.4		5.0	
90 PERCENT EXCEEDS	1.6		1.2		1.1	

\* Precipitation, total, inches

\*\*Present datum

## 02307731 ALLEN CREEK NEAR LARGO, FL.

LOCATION.--Lat 27° 56'30", long 82° 45'00" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.24, T.29 S., R.15 E., Pinellas County, Hydrologic Unit 03100206, 3.0 mi northeast of Largo, and 3.1 mi upstream from mouth.

DRAINAGE AREA.--1.9 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1947 to September 1951; October 1971 to September 1986 (miscellaneous discharge measurements); August 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 15.58 ft above National Geodetic Vertical Datum of 1929. Prior to Sept. 30, 1951, at site 60 ft upstream at present datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Rainfall data for the 2000-2002 water years is in error. Corrected data are available in files of the Geological Survey. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	1.1	0.56	0.55	12	e2.6	0.96	1.1	0.44	1.3	10	9.7
2	3.8	1.1	0.53	0.55	3.4	2.0	0.90	8.0	0.45	0.86	18	5.6
3	2.9	1.5	0.50	0.58	2.7	1.8	0.85	11	0.44	0.59	11	3.1
4	2.5	1.3	0.55	0.55	2.3	1.7	0.76	3.9	0.46	0.98	13	2.8
5	2.2	3.1	0.56	0.62	2.0	1.6	0.79	2.0	0.58	1.2	6.2	10
6	2.0	4.8	0.56	0.69	1.9	1.5	0.82	1.4	0.50	0.63	4.2	73
7	1.8	1.9	0.54	0.55	1.8	1.4	0.75	1.3	0.42	0.59	17	19
8	1.7	1.4	0.60	0.60	1.6	1.3	0.83	1.2	0.48	0.66	33	12
9	1.7	1.2	0.63	2.3	1.6	1.2	0.82	0.94	1.1	0.43	14	9.1
10	1.6	1.1	0.65	2.4	1.6	1.2	0.80	0.83	1.9	0.35	6.7	6.8
11	1.6	1.1	0.65	0.85	1.4	1.1	6.8	0.94	9.2	0.27	5.0	5.7
12	3.1	1.0	0.66	0.64	1.4	1.1	29	0.84	5.6	0.23	4.1	4.9
13	3.2	1.1	0.68	0.59	1.4	1.0	9.1	0.81	3.7	0.19	8.0	4.4
14	1.9	1.0	6.8	0.50	5.6	1.0	3.9	0.73	12	0.19	13	4.0
15	1.6	0.97	2.0	0.47	4.7	1.1	3.0	0.70	2.6	0.29	11	4.1
16	1.5	0.93	0.99	0.48	2.1	4.2	2.6	0.70	1.8	19	5.4	3.6
17	1.4	0.97	0.78	0.48	1.8	2.0	2.1	1.8	1.1	28	3.4	3.3
18	1.4	0.99	0.70	31	1.6	1.3	1.8	0.95	0.65	9.8	2.6	3.0
19	1.3	14	0.67	12	1.4	1.1	1.7	0.69	0.47	27	2.3	2.7
20	1.3	3.8	0.62	4.6	1.4	1.0	1.6	1.8	0.46	90	9.6	2.6
21	1.3	1.7	0.57	2.6	1.4	0.95	1.5	0.96	0.49	18	4.2	3.2
22	1.2	1.2	0.56	2.1	1.3	1.00	1.4	0.69	0.47	5.3	2.5	2.6
23	1.2	0.96	0.60	1.9	1.2	0.99	1.3	0.55	0.59	2.8	2.0	2.3
24	1.2	1.1	0.59	1.7	16	0.99	1.3	0.47	0.52	2.5	1.7	2.2
25	1.1	0.55	0.56	1.6	36	1.1	1.1	0.50	0.43	2.5	7.3	2.1
26	1.1	0.62	0.55	1.5	8.1	1.1	1.1	0.52	0.39	13	12	35
27	1.1	0.60	0.55	20	e4.6	1.1	1.2	0.55	2.7	4.7	4.3	16
28	1.4	0.65	0.54	3.8	e3.8	1.1	1.1	0.52	4.9	3.9	2.5	7.1
29	2.9	0.72	0.54	2.6	e3.0	0.99	0.98	0.53	2.2	2.8	2.3	6.2
30	1.5	0.58	0.57	2.6	---	0.96	0.97	0.47	3.5	2.1	15	5.0
31	1.2	---	0.55	6.9	---	0.92	---	0.43	---	1.7	6.3	---
TOTAL	64.7	53.04	26.41	108.30	129.1	42.40	81.83	47.82	60.54	241.86	257.6	271.1
MEAN	2.09	1.77	0.85	3.49	4.45	1.37	2.73	1.54	2.02	7.80	8.31	9.04
MAX	11	14	6.8	31	36	4.2	29	11	12	90	33	73
MIN	1.1	0.55	0.50	0.47	1.2	0.92	0.75	0.43	0.39	0.19	1.7	2.1
AC-FT	128	105	52	215	256	84	162	95	120	480	511	538
CFSM	1.11	0.94	0.45	1.86	2.37	0.73	1.45	0.82	1.07	4.15	4.42	4.81
IN.	1.28	1.05	0.52	2.14	2.55	0.84	1.62	0.95	1.20	4.79	5.10	5.36
*PREC	0.46	0.47	0.93	5.44	3.99	0.04	2.85	3.05	4.26	3.97	13.11	8.66

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	1.79	1.08	2.09	1.78	1.60	1.24	1.28	0.63	2.57	4.75	5.74	5.83
MAX	2.50	1.87	11.6	4.01	4.45	2.65	4.22	3.55	13.9	12.0	9.88	10.4
(WY)	(2003)	(1948)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2000)	(1947)	(2001)
MIN	0.72	0.36	0.49	0.49	0.22	0.05	0.10	0.00	0.00	0.43	0.41	1.44
(WY)	(2001)	(1951)	(2001)	(1950)	(1950)	(1949)	(1949)	(1949)	(1948)	(1948)	(1950)	(1951)

## 02307731 ALLEN CREEK NEAR LARGO, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL TOTAL	1,714.56		1,384.70		2.56	
ANNUAL MEAN	4.70		3.78		5.63	
HIGHEST ANNUAL MEAN					1.26	
LOWEST ANNUAL MEAN					1951	
HIGHEST DAILY MEAN	57	Jun 18	90	Jul 20	155	Jul 15, 2000
LOWEST DAILY MEAN	0.50	Dec 3	0.19	Jul 13	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.54	Dec 1	0.28	Jul 9	0.00	May 21, 1947
MAXIMUM PEAK FLOW			547	Jul 20	1,020	Jul 15, 2000
MAXIMUM PEAK STAGE			9.27	Jul 20	11.64	Jun 26, 1974
ANNUAL RUNOFF (AC-FT)	3,400		2,750		1,850	
ANNUAL RUNOFF (CFSM)	2.50		2.01		1.36	
ANNUAL RUNOFF (INCHES)	33.93		27.40		18.48	
10 PERCENT EXCEEDS	10		9.6		5.2	
50 PERCENT EXCEEDS	2.2		1.4		1.0	
90 PERCENT EXCEEDS	0.69		0.54		0.06	

e Estimated

\* Precipitation, total, inches

## 02307780 LONG BRANCH NEAR PINELLAS PARK, FL.

LOCATION.--Lat 27° 54'56", long 82° 43'30" (1927 North American datum), in SW $\frac{1}{4}$  sec.32, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on right edge of water on upstream side of culvert on Roosevelt Boulevard, 0.3 mi east of intersection U.S. 19 and Roosevelt Boulevard, 1.5 mi upstream from mouth, and 3.8 mi northeast of Pinellas Park.

DRAINAGE AREA.--1.25 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2003 to September 2004.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor, and those discharges greater than 100 ft<sup>3</sup>/s, which are poor due to poor rating definition.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6.0	0.65	0.74	0.50	5.6	1.0	0.49	1.0	0.56	1.2	29	5.7
2	e3.0	0.72	0.78	0.53	1.6	0.94	0.46	6.0	0.57	1.2	40	3.4
3	e2.5	0.74	0.71	0.67	1.1	0.89	0.44	6.2	0.66	2.6	14	2.6
4	e2.0	0.74	0.64	0.55	0.84	0.92	0.42	1.8	0.63	6.5	16	2.3
5	e1.8	0.70	0.64	0.51	0.78	0.94	0.43	1.0	0.54	2.5	12	7.3
6	1.5	0.85	0.62	0.47	0.69	0.98	0.45	0.89	1.3	1.2	6.0	144
7	1.4	0.61	0.60	0.45	0.59	1.0	0.36	0.96	0.76	1.0	17	22
8	1.5	0.45	0.62	0.44	0.52	0.98	0.40	0.98	1.0	1.0	18	8.7
9	1.6	0.39	0.66	0.54	0.51	0.95	0.41	1.1	1.6	1.00	13	9.1
10	1.6	0.36	0.69	0.64	1.7	0.95	0.41	1.1	0.62	1.0	7.1	5.5
11	1.6	0.33	0.69	0.47	1.4	0.94	2.0	1.2	0.48	0.92	4.7	4.3
12	1.7	0.35	0.68	0.57	0.56	0.93	26	1.2	0.45	0.93	4.0	3.8
13	1.8	0.35	0.66	0.72	0.60	0.90	3.5	1.1	1.1	0.92	4.4	3.9
14	1.5	0.34	5.8	0.61	1.1	0.87	1.1	1.1	4.6	1.1	6.4	3.3
15	1.2	0.34	1.6	0.55	1.3	0.97	0.74	1.1	1.4	0.87	6.2	3.4
16	1.0	0.31	0.69	0.55	0.60	3.2	0.61	1.7	0.92	3.7	4.2	3.1
17	0.96	0.37	1.1	0.55	0.50	1.7	0.55	1.4	0.87	12	3.7	2.9
18	0.97	0.40	0.63	19	0.42	1.2	0.55	1.2	0.76	8.1	3.4	2.8
19	0.98	6.8	0.59	2.8	0.40	1.0	0.55	1.5	0.75	22	3.3	2.7
20	0.97	1.8	0.54	1.1	0.39	1.0	0.58	5.7	0.73	133	4.9	2.7
21	0.94	1.0	0.53	0.54	0.38	1.0	0.61	1.5	0.73	14	6.7	3.1
22	0.96	0.88	0.53	0.41	0.37	1.0	0.64	1.1	0.73	4.5	5.2	3.1
23	0.92	0.80	0.52	0.35	0.35	0.82	0.71	1.0	0.74	2.8	3.7	3.0
24	0.85	0.76	0.54	0.33	16	0.80	0.76	1.0	0.79	2.4	3.2	3.0
25	0.77	0.76	0.51	0.31	52	0.79	0.81	0.94	0.79	2.2	3.1	3.1
26	0.78	0.74	0.50	0.29	5.7	0.82	0.84	0.83	0.88	2.7	4.1	179
27	0.77	0.70	0.52	8.7	2.4	0.82	0.84	0.95	1.6	12	3.1	66
28	1.1	0.76	0.51	1.3	1.4	0.84	0.91	0.89	2.4	8.4	2.7	12
29	2.4	0.77	0.51	0.64	1.1	0.70	0.98	0.84	2.9	4.3	5.3	6.7
30	0.89	0.66	0.52	0.67	---	0.54	1.1	0.72	2.5	3.4	5.9	4.5
31	0.68	---	0.50	2.1	---	0.51	---	0.59	---	2.4	4.4	---
TOTAL	46.64	25.43	25.37	47.86	100.90	30.90	48.65	48.59	34.36	261.84	264.7	527.0
MEAN	1.50	0.85	0.82	1.54	3.48	1.00	1.62	1.57	1.15	8.45	8.54	17.6
MAX	6.0	6.8	5.8	19	52	3.2	26	6.2	4.6	133	40	179
MIN	0.68	0.31	0.50	0.29	0.35	0.51	0.36	0.59	0.45	0.87	2.7	2.3

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	1.50	0.85	0.82	1.54	3.48	1.00	1.62	1.57	1.15	8.45	8.54	17.6
MAX	1.50	0.85	0.82	1.54	3.48	1.00	1.62	1.57	1.15	8.45	8.54	17.6
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	1.50	0.85	0.82	1.54	3.48	1.00	1.62	1.57	1.15	8.45	8.54	17.6
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

## SUMMARY STATISTICS

## FOR 2004 WATER YEAR

ANNUAL TOTAL	1,462.24
ANNUAL MEAN	4.00
HIGHEST DAILY MEAN	179 Sep 26
LOWEST DAILY MEAN	0.29 Jan 26
ANNUAL SEVEN-DAY MINIMUM	0.34 Nov 10
MAXIMUM PEAK FLOW	682 Jul 20
MAXIMUM PEAK STAGE	45.12 Jul 20
10 PERCENT EXCEEDS	6.1
50 PERCENT EXCEEDS	0.97
90 PERCENT EXCEEDS	0.48

e Estimated

## 02307834 UPPER HIGHLANDS CANAL AT CONTROL NEAR PINELLAS PARK, FL.

LOCATION.--Lat 27° 52'19", long 82° 41'23" (1983 North American datum), in NW $\frac{1}{4}$  sec.15, T.30 S., R.16E., Pinellas County, Hydrologic Unit 03100207, on upstream side of a fixed weir, 100 ft north of 110th Avenue, 800 ft east of 43rd Street, and 2.5 mi northeast of Pinellas Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 2002 to current year (gage heights only).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 3.39 ft below National Geodetic Vertical datum of 1929.

REMARKS.--Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.08 ft, Aug. 1, 2004; minimum, 8.05 ft, June 24, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.08 ft, Aug. 1; minimum, 9.56 ft, June 13.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.25	9.95	9.95	9.99	10.21	10.17	10.04	10.0	9.79	10.20	10.56	10.29
2	10.22	9.94	9.94	9.99	10.19	10.15	10.04	10.07	9.76	10.17	10.68	10.28
3	10.19	9.94	9.93	9.99	10.17	10.13	10.02	10.13	9.73	10.20	10.62	10.25
4	10.16	9.95	9.93	9.99	10.16	10.12	10.01	10.13	9.70	10.22	10.49	10.22
5	10.15	9.96	9.93	9.99	10.14	10.11	10.00	10.11	9.68	10.20	10.40	10.23
6	10.13	10.01	9.91	9.99	10.13	10.10	9.99	10.10	9.66	10.19	10.33	10.58
7	10.12	10.07	9.90	9.97	10.11	10.10	9.98	10.09	9.63	10.17	10.37	10.49
8	10.11	10.07	9.89	9.95	10.10	10.09	9.98	10.09	9.61	10.15	10.50	10.42
9	10.10	10.07	9.88	9.94	10.09	10.08	9.97	10.08	9.60	10.13	10.50	10.41
10	10.09	10.05	9.88	9.94	10.09	10.08	9.96	10.07	9.62	10.12	10.47	10.35
11	10.09	10.04	9.87	9.92	10.09	10.08	9.97	10.07	9.60	10.10	10.38	10.30
12	10.09	10.03	9.87	9.92	10.09	10.08	10.18	10.06	9.59	10.09	10.31	10.27
13	10.09	10.02	9.86	9.92	10.09	10.08	10.16	10.05	9.62	10.08	10.28	10.23
14	10.10	10.00	9.99	9.91	10.10	10.08	10.14	10.03	9.98	10.07	10.30	10.20
15	10.09	9.99	10.05	9.91	10.11	10.09	10.12	10.02	10.08	10.05	10.33	10.18
16	10.07	9.98	10.05	9.90	10.09	10.12	10.11	10.08	10.16	10.07	10.29	10.16
17	10.06	9.97	10.05	9.90	10.09	10.10	10.10	10.07	10.14	10.24	10.26	10.14
18	10.05	9.97	10.04	10.03	10.08	10.08	10.09	10.06	10.12	10.33	10.23	10.13
19	10.04	10.02	10.04	10.10	10.08	10.08	10.08	10.05	10.10	10.50	10.19	10.12
20	10.03	10.03	10.03	10.10	10.07	10.08	10.08	10.06	10.09	10.62	10.17	10.10
21	10.02	10.03	10.02	10.09	10.07	10.08	10.08	10.04	10.08	10.52	10.17	10.10
22	10.00	10.02	10.02	10.09	10.07	10.07	10.07	10.03	10.07	10.37	10.15	10.09
23	10.0	10.02	10.02	10.08	10.07	10.06	10.07	10.01	10.06	10.30	10.15	10.09
24	9.98	10.01	10.02	10.07	10.14	10.06	10.06	9.98	10.07	10.25	10.16	10.08
25	9.97	10.01	10.02	10.07	10.40	10.05	10.06	9.96	10.06	10.22	10.18	10.07
26	9.96	10.01	10.01	10.07	10.28	10.05	10.05	9.93	10.05	10.20	10.27	10.22
27	9.95	10.01	10.00	10.21	10.22	10.06	10.05	9.91	10.09	10.23	10.24	10.36
28	9.96	10.01	10.00	10.20	10.20	10.06	10.04	9.89	10.22	10.33	10.22	10.31
29	9.99	9.99	10.00	10.18	10.18	10.06	10.02	9.87	10.24	10.39	10.20	10.28
30	9.98	9.97	9.99	10.16	---	10.06	10.01	9.84	10.23	10.35	10.20	10.25
31	9.97	---	9.99	10.17	---	10.06	---	9.82	---	10.33	10.22	---
MEAN	10.06	10.00	9.97	10.02	10.13	10.09	10.05	10.02	9.91	10.24	10.32	10.24
MAX	10.25	10.07	10.05	10.21	10.40	10.17	10.18	10.13	10.24	10.62	10.68	10.58
MIN	9.95	9.94	9.86	9.90	10.07	10.05	9.96	9.82	9.59	10.05	10.15	10.07
*PREC	1.31	1.63	1.19	3.91	4.23	0.76	2.46	2.68	6.05	16.11	14.39	9.88

\* Precipitation, total, inches

## 02307835 UPPER HIGHLANDS CANAL BELOW CONTROL NEAR PINELLAS PARK, FL.

LOCATION.--Lat 27° 52'19", long 82° 41'23" (1983 North American datum), in NW $\frac{1}{4}$  sec.15, T.30 S., R.16E., Pinellas County, Hydrologic Unit 03100207, on downstream side of a fixed weir, 100 ft north of 110th Avenue, 800 ft east of 43rd Street, and 2.5 mi northeast of Pinellas Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft below National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.07 ft, Aug. 1, 2004; minimum, 8.46 ft, June 8, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.07 ft, Aug. 1; minimum, 8.46 ft, June 8.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.87	8.68	8.68	8.68	8.83	8.72	8.66	8.68	8.64	8.78	9.66	9.04
2	8.80	8.68	8.67	8.68	8.77	8.72	8.66	8.72	8.61	8.76	9.77	9.01
3	8.77	8.69	8.67	8.68	8.76	8.71	8.67	8.80	8.59	8.94	9.43	8.99
4	8.76	8.70	8.67	8.68	8.74	8.71	8.67	8.77	8.56	8.94	9.11	8.98
5	8.74	8.71	8.69	8.68	8.72	8.71	8.66	8.73	8.55	8.85	9.05	8.99
6	8.73	8.73	8.69	8.69	8.72	8.71	8.65	8.72	8.53	8.82	8.96	9.85
7	8.73	8.74	8.68	8.69	8.72	8.71	8.66	8.71	8.51	8.78	9.30	9.18
8	8.72	8.71	8.68	8.67	8.72	8.71	8.69	8.71	8.48	8.76	9.39	9.07
9	8.72	8.70	8.68	8.67	8.70	8.70	8.69	8.70	8.49	8.75	9.39	9.16
10	8.72	8.69	8.68	8.68	8.70	8.70	8.69	8.70	8.55	8.74	9.12	8.99
11	8.71	8.68	8.68	8.68	8.70	8.69	8.70	8.70	8.54	8.73	9.00	8.97
12	8.71	8.67	8.68	8.67	8.71	8.69	8.90	8.70	8.53	8.73	8.97	8.90
13	8.71	8.67	8.68	8.67	8.71	8.69	8.80	8.71	8.60	8.72	9.01	8.95
14	8.75	8.67	8.77	8.67	8.72	8.69	8.74	8.70	8.81	8.73	9.04	8.95
15	8.72	8.67	8.74	8.67	8.73	8.71	8.72	8.71	8.81	8.73	9.05	8.93
16	8.71	8.67	8.72	8.67	8.72	8.76	8.70	8.76	8.80	8.74	9.00	8.93
17	8.70	8.68	8.72	8.67	8.71	8.73	8.70	8.72	8.75	9.08	8.97	8.92
18	8.71	8.68	8.71	8.77	8.70	8.70	8.69	8.71	8.73	9.08	8.93	8.91
19	8.70	8.72	8.71	8.76	8.69	8.70	8.68	8.72	8.72	9.38	8.91	8.91
20	8.69	8.71	8.70	8.74	8.69	8.70	8.68	8.72	8.71	9.58	8.92	8.92
21	8.68	8.69	8.69	8.72	8.69	8.70	8.69	8.71	8.71	9.08	8.92	8.92
22	8.68	8.68	8.69	8.71	8.70	8.70	8.69	8.71	8.71	8.90	8.92	8.88
23	8.68	8.69	8.69	8.70	8.69	8.69	8.69	8.71	8.71	8.83	8.93	8.86
24	8.67	8.69	8.69	8.69	8.80	8.68	8.70	8.71	8.71	8.81	8.94	8.91
25	8.67	8.70	8.69	8.69	9.21	8.68	8.68	8.71	8.70	8.81	8.99	8.90
26	8.68	8.70	8.68	8.68	8.88	8.67	8.68	8.71	8.69	8.80	9.03	9.36
27	8.69	8.69	8.68	8.89	8.80	8.66	8.69	8.70	8.77	8.94	8.98	9.14
28	8.69	8.70	8.68	8.80	8.77	8.66	8.68	8.70	8.84	9.12	8.96	8.96
29	8.72	8.69	8.68	8.76	8.74	8.66	8.68	8.69	8.86	9.09	8.95	8.95
30	8.69	8.68	8.68	8.74	---	8.65	8.68	8.67	8.83	9.00	8.96	8.93
31	8.68	---	8.68	8.78	---	8.66	---	8.66	---	8.95	8.98	---
MEAN	8.72	8.69	8.69	8.71	8.75	8.70	8.70	8.71	8.67	8.90	9.08	9.01
MAX	8.87	8.74	8.77	8.89	9.21	8.76	8.90	8.80	8.86	9.58	9.77	9.85
MIN	8.67	8.67	8.67	8.67	8.69	8.65	8.65	8.66	8.48	8.72	8.91	8.86

## 02307836 ROOSEVELT RESERVOIR AT OUTFALL NEAR PINELLAS PARK, FL.

LOCATION.--Lat 27° 52'17", long 82° 41'24" (1983 North American datum), in SW $\frac{1}{4}$  sec.15, T.30 S., R.16E., Pinellas County, Hydrologic Unit 03100207, on north shore on the upstream side of the outfall structure, 500 ft south of 110th Avenue, 800 ft east of 43rd Street, and 2.5 mi northeast of Pinellas Park.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 3.39 ft below National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.28 ft, Dec. 13, 2002; minimum, 9.78 ft, June 8, 9, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.24 ft, Aug. 7; minimum, 9.78 ft, June 8, 9.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.19	10.02	10.0	10.02	10.19	10.06	9.94	9.93	9.88	10.09	10.60	10.29
2	10.10	10.02	9.99	10.02	10.12	10.06	9.93	10.05	9.86	10.07	10.74	10.22
3	10.07	10.02	9.99	10.02	10.09	10.05	9.92	10.16	9.85	10.16	10.48	10.14
4	10.06	10.04	10.0	10.02	10.08	10.05	9.91	10.13	9.84	10.21	10.23	10.12
5	10.06	10.05	10.00	10.02	10.07	10.04	9.90	10.08	9.82	10.15	10.21	10.20
6	10.05	10.11	10.0	10.02	10.06	10.04	9.89	10.06	9.81	10.13	10.15	10.77
7	10.05	10.12	9.99	10.00	10.05	10.04	9.89	10.04	9.80	10.09	10.34	10.35
8	10.04	10.08	9.99	9.99	10.03	10.03	9.89	10.03	9.79	10.08	10.58	10.17
9	10.04	10.06	9.99	9.99	10.02	10.01	9.89	10.01	9.81	10.06	10.49	10.24
10	10.03	10.04	10.00	10.0	10.03	10.0	9.89	10.00	9.85	10.04	10.36	10.17
11	10.04	10.03	9.99	9.99	10.03	9.99	9.90	9.99	9.84	10.03	10.19	10.12
12	10.04	10.02	9.99	9.99	10.03	9.99	10.22	9.99	9.84	10.01	10.13	10.11
13	10.04	10.02	9.99	9.99	10.03	9.99	10.16	9.97	9.88	10.01	10.13	10.11
14	10.11	10.00	10.13	9.99	10.05	9.99	10.09	9.95	10.18	10.0	10.22	10.09
15	10.07	10.00	10.12	10.0	10.08	10.0	10.06	9.95	10.15	9.99	10.26	10.09
16	10.05	10.00	10.08	10.00	10.06	10.08	10.04	10.11	10.15	10.02	10.16	10.09
17	10.04	10.00	10.07	10.00	10.05	10.09	10.04	10.07	10.08	10.32	10.13	10.08
18	10.04	10.00	10.05	10.14	10.04	10.07	10.02	10.05	10.06	10.34	10.11	10.07
19	10.03	10.06	10.05	10.15	10.03	10.06	10.01	10.03	10.04	10.50	10.10	10.06
20	10.03	10.07	10.04	10.11	10.03	10.05	10.01	10.04	10.03	10.57	10.09	10.04
21	10.03	10.05	10.03	10.08	10.03	10.04	10.00	10.03	10.01	10.30	10.10	10.05
22	10.02	10.04	10.03	10.06	10.03	10.02	10.00	10.01	10.00	10.15	10.10	10.05
23	10.02	10.04	10.03	10.05	10.02	10.0	9.99	10.0	10.0	10.10	10.09	10.04
24	10.01	10.03	10.03	10.05	10.12	9.99	9.99	9.98	9.99	10.09	10.09	10.03
25	10.01	10.03	10.03	10.05	10.52	9.98	9.98	9.97	9.98	10.09	10.16	10.02
26	10.01	10.03	10.02	10.04	10.22	9.98	9.98	9.96	9.97	10.09	10.25	10.32
27	10.01	10.02	10.02	10.25	10.12	9.97	9.97	9.95	10.05	10.20	10.15	10.38
28	10.02	10.02	10.02	10.15	10.08	9.97	9.96	9.94	10.18	10.40	10.12	10.17
29	10.07	10.01	10.02	10.09	10.07	9.97	9.95	9.93	10.19	10.34	10.11	10.11
30	10.05	10.0	10.02	10.08	---	9.96	9.94	9.91	10.16	10.23	10.11	10.09
31	10.03	---	10.02	10.11	---	9.96	---	9.90	---	10.17	10.13	---
MEAN	10.05	10.03	10.02	10.05	10.08	10.02	9.98	10.01	9.97	10.16	10.23	10.16
MAX	10.19	10.12	10.13	10.25	10.52	10.09	10.22	10.16	10.19	10.57	10.74	10.77
MIN	10.01	10.00	9.99	9.99	10.02	9.96	9.89	9.90	9.79	9.99	10.09	10.02



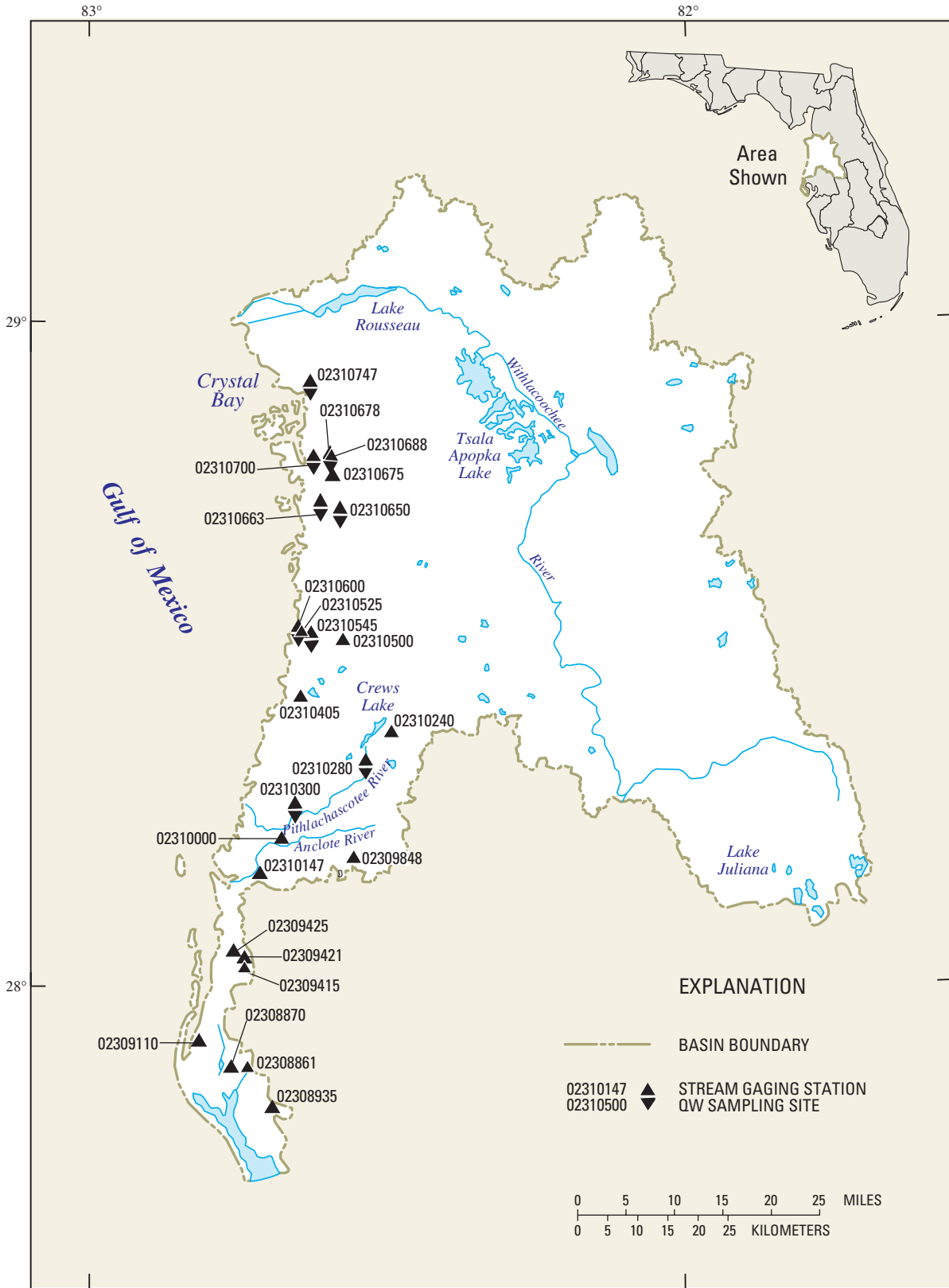


Figure 14.--Location of stream gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

## 02308861 CROSS BAYOU CANAL AT CEDAR BROOK DRIVE AT PINELLAS PARK, FL.

LOCATION.--Lat 27° 52'23", long 82° 43'37" (1927 North American datum), in NE  $\frac{1}{4}$  sec.17, T.30 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on south bank, 150 ft northeast of intersection Cedar Ridge Court and Cedar Brook Drive, 200 ft south of Bryan Dairy Road, and 0.5 mi southeast of Pinellas park.

DRAINAGE AREA.--0.23 mi<sup>2</sup>.

PERIOD OF RECORD.--July 2002 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (from temporary benchmark set by county). Gage height affected by tide most days.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.56 ft, Aug. 2, 2004; minimum, 0.39 ft, Jan. 13, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.56 ft, Aug. 2; minimum, 0.39 ft, Jan. 13.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.59	0.94	0.57	0.64	1.26	1.00	0.95	0.88	1.21	1.35	2.90	1.74
2	1.43	0.84	0.58	0.68	0.99	0.99	0.65	1.51	1.24	1.34	4.32	1.41
3	1.38	0.76	0.59	0.82	0.92	0.91	0.71	1.52	1.27	1.61	3.34	1.17
4	1.48	1.48	0.94	1.01	0.92	1.00	0.69	0.96	1.24	1.66	2.37	1.05
5	1.27	1.34	1.06	1.14	1.05	1.10	0.75	0.84	1.42	1.35	2.12	1.34
6	1.30	1.32	0.83	1.04	1.16	1.16	0.77	0.95	1.33	1.19	1.67	4.37
7	1.45	1.28	0.59	0.64	1.20	0.93	0.98	1.06	1.19	1.12	2.54	2.48
8	1.32	1.22	0.73	0.54	0.66	0.77	1.30	1.13	1.23	1.08	3.32	1.73
9	1.26	1.09	0.87	1.10	0.59	0.67	1.23	1.19	1.21	0.99	3.07	1.79
10	1.28	0.67	1.38	1.24	0.70	0.68	1.07	1.11	1.10	0.95	2.10	1.54
11	1.42	0.85	1.12	0.55	0.73	0.63	1.19	0.96	1.09	1.07	1.66	1.46
12	1.50	1.21	0.96	0.49	0.78	0.76	2.10	0.92	1.03	1.05	1.74	1.44
13	1.34	1.33	0.91	0.52	0.81	0.91	1.40	0.95	1.14	1.10	1.60	1.38
14	1.38	0.83	1.69	0.59	1.15	1.02	0.97	0.86	1.72	1.17	1.73	1.49
15	1.23	1.24	0.90	0.65	1.17	1.09	0.74	0.80	1.50	1.27	1.68	2.39
16	0.97	1.33	0.85	0.73	0.89	1.38	0.65	1.14	1.28	1.26	1.41	1.95
17	1.14	1.10	0.92	0.94	0.71	1.15	0.63	0.86	1.17	1.70	1.33	1.46
18	1.23	1.27	0.71	1.72	0.65	0.92	0.61	0.88	1.16	1.97	1.31	1.32
19	1.11	1.83	0.82	1.39	0.57	0.93	0.66	0.99	1.16	2.61	1.27	1.30
20	1.01	0.94	0.68	1.05	0.87	0.86	0.69	1.29	1.15	3.05	1.26	1.08
21	1.07	0.99	0.64	0.89	1.06	0.87	0.88	1.06	1.15	2.03	1.25	1.03
22	1.09	1.06	0.74	0.97	0.97	0.83	0.97	1.13	1.17	1.50	1.25	1.23
23	1.20	1.27	1.01	0.87	0.75	0.57	0.86	1.17	1.01	1.34	1.31	1.25
24	1.18	1.52	1.25	0.75	1.49	0.50	0.84	1.06	0.88	1.26	1.35	1.19
25	1.21	1.43	1.05	0.89	2.77	0.62	0.88	0.92	0.91	1.28	1.43	1.21
26	1.27	1.32	0.82	1.06	1.51	0.78	0.91	0.82	0.88	1.41	1.74	2.44
27	1.44	1.40	0.69	1.60	1.11	0.87	0.74	0.71	1.15	1.93	1.57	2.93
28	1.95	1.42	0.74	0.90	0.90	0.95	0.55	0.70	1.33	2.46	1.41	1.83
29	1.53	0.76	0.84	0.77	0.85	0.86	0.63	0.80	1.34	2.23	1.41	1.59
30	1.15	0.58	0.80	0.75	---	0.84	0.71	0.86	1.36	2.23	1.37	1.50
31	0.85	---	0.75	0.91	---	0.91	---	1.08	---	1.86	1.33	---
MEAN	1.29	1.15	0.87	0.90	1.01	0.89	0.89	1.00	1.20	1.56	1.88	1.67
MAX	1.95	1.83	1.69	1.72	2.77	1.38	2.10	1.52	1.72	3.05	4.32	4.37
MIN	0.85	0.58	0.57	0.49	0.57	0.50	0.55	0.70	0.88	0.95	1.25	1.03

02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL.

LOCATION.--Lat 27° 52'19", long 82° 44'14" (1927 North American datum), in SE 1/4 sec.18, T.30 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on right bank, 75 ft above culvert on Bryan Dairy Road, 0.5 mi west of 66th Street North, and 0.6 mi south of Pinellas Park.

DRAINAGE AREA.--2.51 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	0.59	0.42	0.42	11	1.9	0.30	0.05	0.03	3.7	16	15
2	7.9	0.59	0.42	0.42	2.2	2.4	0.30	8.5	0.03	5.1	116	5.3
3	3.1	0.64	0.42	0.42	1.2	1.7	0.30	12	0.02	8.5	16	0.71
4	1.9	0.72	0.42	0.46	0.94	1.4	0.32	1.3	0.02	5.9	20	0.70
5	1.7	1.3	0.42	0.45	0.80	1.1	0.41	0.15	0.02	2.4	17	11
6	1.4	2.5	0.42	0.42	0.80	1.1	0.38	0.09	0.95	0.90	9.9	188
7	1.2	0.68	0.42	0.38	0.80	1.1	0.35	0.06	0.04	5.9	89	25
8	1.1	0.58	0.42	0.39	0.67	1.00	0.30	0.05	8.2	2.2	23	13
9	1.1	0.51	0.42	0.42	0.59	0.86	0.30	0.05	5.2	0.70	22	11
10	0.98	0.43	0.42	0.42	0.59	0.83	0.31	0.04	0.13	0.45	11	7.1
11	1.1	0.42	0.42	0.35	0.59	0.80	4.6	0.04	0.07	0.33	4.2	4.4
12	1.6	0.42	0.42	0.36	0.59	0.80	52	0.03	0.06	0.29	1.6	4.7
13	1.8	0.36	0.42	0.42	0.59	0.80	8.4	0.03	3.9	0.41	2.6	6.1
14	1.4	0.30	9.6	0.42	2.4	0.80	0.60	0.03	23	0.24	9.9	4.1
15	1.3	0.30	1.5	0.48	2.4	0.95	0.19	0.08	7.1	0.82	8.7	8.0
16	0.96	0.32	0.69	0.55	0.85	11	0.13	3.2	0.56	5.3	2.2	2.0
17	0.80	0.30	0.57	0.55	0.80	2.1	0.13	0.07	0.22	43	1.2	1.7
18	0.80	0.31	0.42	14	0.59	0.49	0.09	0.05	0.13	36	0.72	1.6
19	0.77	11	0.42	5.0	0.59	0.34	0.08	0.45	0.13	39	0.59	1.9
20	0.59	2.1	0.42	1.7	0.59	0.27	0.07	11	0.10	46	0.72	2.7
21	0.71	0.80	0.42	0.83	0.63	0.27	0.07	0.21	0.10	15	0.72	5.9
22	0.66	0.66	0.47	0.74	0.59	0.24	0.07	0.09	0.10	10	0.62	3.2
23	0.56	0.59	0.59	0.59	0.59	0.22	0.07	0.07	0.09	8.1	0.47	2.6
24	0.56	0.59	0.59	0.59	27	0.21	0.06	0.06	0.11	7.6	0.47	2.8
25	0.50	0.62	0.50	0.58	95	0.21	0.06	0.05	0.25	7.7	1.4	3.5
26	0.52	0.59	0.45	0.68	12	0.19	0.05	0.04	0.10	8.3	2.0	98
27	0.59	0.48	0.43	18	6.8	0.17	0.05	0.03	18	9.0	0.45	47
28	2.2	0.53	0.48	2.3	3.2	0.21	0.06	0.03	12	12	0.36	15
29	10	0.58	0.42	0.96	2.2	0.24	0.05	0.03	8.3	11	0.71	8.4
30	1.3	0.42	0.42	0.96	---	0.30	0.05	0.03	9.2	9.5	0.46	5.8
31	0.70	---	0.42	4.7	---	e0.30	---	0.03	---	6.6	1.1	---
TOTAL	79.80	30.23	24.27	58.96	177.59	34.30	70.15	37.94	98.16	311.94	381.09	506.21
MEAN	2.57	1.01	0.78	1.90	6.12	1.11	2.34	1.22	3.27	10.1	12.3	16.9
MAX	30	11	9.6	18	95	11	52	12	23	46	116	188
MIN	0.50	0.30	0.42	0.35	0.59	0.17	0.05	0.03	0.02	0.24	0.36	0.70
MED	1.1	0.59	0.42	0.55	0.80	0.80	0.16	0.05	0.13	6.6	2.0	5.6
AC-FT	158	60	48	117	352	68	139	75	195	619	756	1,000
CFSM	1.03	0.40	0.31	0.76	2.44	0.44	0.93	0.49	1.30	4.01	4.90	6.72
IN.	1.18	0.45	0.36	0.87	2.63	0.51	1.04	0.56	1.45	4.62	5.65	7.50
*PREC	0.84	1.48	1.34	3.84	4.87	0.80	2.75	3.16	4.21	8.76	16.69	10.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	2.55	1.24	5.75	2.90	3.69	4.01	4.00	1.54	11.2	13.5	17.1	13.8
MAX	4.28	2.70	25.0	6.36	6.77	8.16	14.2	6.06	37.3	23.9	56.6	16.9
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(1999)
MIN	0.47	0.04	0.49	0.99	0.66	0.49	0.33	0.03	1.31	9.91	1.25	8.63
(WY)	(2001)	(2002)	(2002)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2001)	(2000)

## 02308870 PINEBROOK CANAL AT BRYAN DAIRY ROAD AT PINELLAS PARK, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	5,412.34		1,810.64			
ANNUAL MEAN	14.8		4.95		6.75	
HIGHEST ANNUAL MEAN					17.2	2003
LOWEST ANNUAL MEAN					3.10	2000
HIGHEST DAILY MEAN	500	Aug 10	188	Sep 6	500	Aug 10, 2003
LOWEST DAILY MEAN	0.07	Apr 23	0.02	Jun 3	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.10	Apr 18	0.03	May 30	0.00	May 29, 2000
MAXIMUM PEAK FLOW			861	Aug 2	904	Sep 7, 1999
MAXIMUM PEAK STAGE			4.97	Aug 2	5.18	Sep 14, 2001
ANNUAL RUNOFF (AC-FT)	10,740		3,590		4,890	
ANNUAL RUNOFF (CFSM)	5.91		1.97		2.69	
ANNUAL RUNOFF (INCHES)	80.21		26.83		36.57	
10 PERCENT EXCEEDS	33		11		15	
50 PERCENT EXCEEDS	3.2		0.62		0.98	
90 PERCENT EXCEEDS	0.38		0.07		0.07	

e Estimated

\* Precipitation, total, inches

## 02308935 SAINT JOE CREEK AT PINELLAS PARK, FL.

LOCATION.--Lat 27° 48'50", long 82° 41'45" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.3, T.31 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, near right bank 30 ft upstream from triple box culvert at intersection 46th Avenue North and 46th Street North, 0.7 mi southwest of community hall, 1.0 mi west of U.S. Highway 19, 1.8 mi south of Pinellas Park, and 3.5 mi above mouth.

DRAINAGE AREA.--2.80 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1984 to September 1991; June 2000 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage is 24.70 ft above National Geodetic Vertical Datum of 1929 (Pinellas County bench mark).

REMARKS.--Records good. Rainfall data for the 2000-2002 water years are in error. Corrected data are available in files of the Geological Survey. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	1.6	1.6	1.8	10	0.79	1.0	2.5	1.1	6.3	16	70
2	6.4	1.4	1.4	2.1	5.2	1.0	0.90	17	1.1	20	15	13
3	5.9	1.8	1.2	2.6	3.0	2.0	0.92	14	1.1	37	10	6.9
4	5.6	2.1	1.4	2.0	2.7	1.9	0.86	9.3	1.0	16	7.6	4.4
5	5.3	1.9	1.4	2.1	2.3	1.4	0.86	4.9	0.89	13	13	18
6	4.6	6.3	1.4	2.0	1.6	1.2	0.86	3.3	1.5	8.3	8.7	153
7	4.5	5.5	1.4	2.0	0.60	1.1	0.86	2.7	20	17	14	20
8	5.6	2.7	1.2	1.4	0.30	1.1	0.86	2.5	15	9.2	21	12
9	4.5	1.8	1.1	1.4	1.0	1.1	0.86	2.5	6.0	4.2	13	12
10	3.2	1.4	1.1	1.4	1.9	1.0	0.86	2.1	5.8	2.6	9.8	9.5
11	3.0	1.7	1.1	1.1	1.5	0.81	2.1	2.1	3.8	2.1	5.9	7.5
12	1.7	1.7	1.2	0.79	1.5	0.56	46	2.1	2.6	1.9	3.7	8.6
13	1.9	1.9	1.4	0.86	1.8	0.76	11	2.3	6.9	1.7	3.9	16
14	2.7	1.7	23	1.1	2.1	0.97	5.5	2.1	23	1.9	15	7.8
15	4.1	1.7	8.3	1.4	4.1	1.1	3.9	3.4	11	1.7	12	6.1
16	2.8	1.2	3.9	1.7	2.8	25	3.3	31	5.9	1.7	6.1	4.7
17	2.5	0.60	2.7	1.7	2.1	8.0	2.9	7.6	3.3	4.8	3.6	3.9
18	2.5	1.1	2.5	18	1.6	2.9	2.7	4.2	2.5	24	3.0	3.6
19	2.5	4.2	2.0	8.2	1.6	1.8	2.2	2.7	2.3	50	2.7	3.5
20	2.3	3.5	1.6	4.6	1.5	1.5	1.9	2.5	2.7	48	9.7	3.0
21	2.2	1.3	1.7	2.4	1.4	1.4	2.3	2.1	2.5	11	9.2	3.3
22	2.4	1.2	1.4	1.9	1.4	1.4	2.4	1.8	1.8	6.1	7.8	3.4
23	2.5	1.4	1.6	1.5	1.7	1.00	2.6	0.50	0.86	3.7	11	3.0
24	2.3	3.4	2.0	1.6	6.3	0.32	2.5	0.65	0.79	2.9	9.4	2.7
25	2.0	3.1	2.1	2.3	54	0.90	2.6	0.82	0.66	2.5	43	2.5
26	2.5	2.2	2.1	1.8	8.0	1.3	2.1	1.2	0.75	5.7	31	74
27	3.2	1.9	2.1	8.2	3.8	1.4	2.3	1.4	2.3	4.8	24	28
28	2.7	1.9	1.4	6.1	2.1	1.9	2.5	1.4	5.3	5.9	12	12
29	5.4	2.3	0.66	2.8	1.3	1.8	2.2	1.4	6.1	5.6	5.8	8.4
30	2.9	1.8	2.3	1.9	---	1.4	2.5	1.4	6.7	8.1	7.8	7.0
31	1.9	---	2.1	2.9	---	1.3	---	1.3	---	3.9	22	---
TOTAL	115.6	66.30	80.36	91.65	129.20	70.11	114.34	134.77	145.25	331.6	376.7	527.8
MEAN	3.73	2.21	2.59	2.96	4.46	2.26	3.81	4.35	4.84	10.7	12.2	17.6
MAX	14	6.3	23	18	54	25	46	31	23	50	43	153
MIN	1.7	0.60	0.66	0.79	0.30	0.32	0.86	0.50	0.66	1.7	2.7	2.5
AC-FT	229	132	159	182	256	139	227	267	288	658	747	1,050
CFSM	1.46	0.87	1.02	1.16	1.75	0.89	1.49	1.70	1.90	4.19	4.77	6.90
IN.	1.69	0.97	1.17	1.34	1.88	1.02	1.67	1.97	2.12	4.84	5.50	7.70
*PREC	0.89	1.93	1.92	3.74	4.47	1.32	2.90	2.63	4.54	10.02	11.72	10.57

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

MEAN	4.55	3.47	4.09	3.24	2.98	4.95	2.75	3.01	5.34	8.21	10.7	13.4
MAX	15.7	9.06	23.0	6.41	5.50	15.7	7.68	6.62	15.4	13.5	26.0	36.6
(WY)	(1987)	(1989)	(2003)	(2003)	(1990)	(1987)	(2003)	(2003)	(2003)	(1985)	(2003)	(1988)
MIN	1.68	1.16	0.82	1.74	1.46	1.53	1.05	0.79	1.74	4.32	4.62	5.25
(WY)	(2001)	(1991)	(1991)	(1985)	(1991)	(2002)	(1989)	(1985)	(1988)	(1986)	(2000)	(1986)

02308935 SAINT JOE CREEK AT PINELLAS PARK, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1984 - 2004	
ANNUAL TOTAL	3,138.23		2,183.68			
ANNUAL MEAN	8.60		5.97		5.87	
HIGHEST ANNUAL MEAN					10.3 2003	
LOWEST ANNUAL MEAN					3.68 1986	
HIGHEST DAILY MEAN	143	Aug 10	153	Sep 6	276	Sep 8, 1988
LOWEST DAILY MEAN	0.60	Nov 17	0.30	Feb 8	0.07	Mar 22, 1990
ANNUAL SEVEN-DAY MINIMUM	1.2	Dec 6	0.86	Apr 4	0.15	Jun 10, 2001
MAXIMUM PEAK FLOW			371	Sep 6	963	Sep 30, 1987
MAXIMUM PEAK STAGE			3.14	Sep 6	4.95	Sep 30, 1987
ANNUAL RUNOFF (AC-FT)	6,220		4,330		4,250	
ANNUAL RUNOFF (CFSM)	3.37		2.34		2.30	
ANNUAL RUNOFF (INCHES)	45.78		31.86		31.27	
10 PERCENT EXCEEDS	16		13		12	
50 PERCENT EXCEEDS	4.2		2.5		2.2	
90 PERCENT EXCEEDS	1.6		1.1		1.1	

\* Precipitation, total, inches

## 02309110 MCKAY CREEK NEAR LARGO, FL.

LOCATION.--Lat 27° 54'26", long 82° 49'01" (1927 North American datum), in NE $\frac{1}{4}$  sec.5, T.30 S., R.15 E., Pinellas County, Hydrologic Unit 03100207, on left edge of water on upstream side of culvert on Hickory Drive, two blocks south of 8th Avenue, and 1.8 mi west of Largo.

DRAINAGE AREA.--5.9 mi<sup>2</sup>.

PERIOD OF RECORD.--October 2003 to September 2004 (gage-heights only).

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

REMARKS.--Gage height affected by tide most days. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.25 ft, Aug. 2; minimum, 0.86 ft, June 6-8.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1.03	1.08	1.07	1.39	1.33	1.06	1.16	1.20	1.44	1.67	1.52
2	---	1.03	1.06	1.10	1.32	1.30	1.10	1.41	1.23	1.33	2.37	1.70
3	1.49	1.19	1.06	1.12	1.29	1.31	1.07	1.49	1.25	1.31	2.01	1.75
4	1.51	1.34	1.16	1.20	1.30	1.32	1.11	1.29	1.21	1.25	1.69	1.56
5	1.39	1.32	1.13	1.20	1.30	1.32	1.17	1.29	1.27	1.20	1.77	1.28
6	1.49	1.26	1.18	1.10	1.31	1.29	1.15	1.32	1.19	1.08	1.61	2.03
7	1.59	1.28	1.21	1.00	1.29	1.25	1.22	1.31	1.11	1.02	2.02	1.96
8	1.54	1.25	1.22	1.03	1.15	1.24	1.31	1.30	1.16	1.01	1.96	1.89
9	1.48	1.04	1.16	1.23	1.14	1.19	1.27	1.29	1.12	0.94	1.71	1.92
10	1.34	1.01	1.33	1.18	1.16	1.21	1.17	1.36	1.03	0.93	1.62	1.61
11	1.43	1.13	1.17	0.96	1.16	1.15	1.36	1.50	1.03	0.98	1.78	1.57
12	1.46	1.24	1.07	0.97	1.16	1.19	1.89	1.49	1.01	1.20	1.71	1.57
13	1.38	1.21	1.09	0.98	1.15	1.19	1.54	1.29	1.18	1.10	1.31	1.31
14	1.43	1.06	1.52	1.00	1.28	1.19	1.37	1.04	1.28	1.06	1.45	1.42
15	1.45	1.22	1.23	1.01	1.25	1.24	1.31	1.04	1.21	1.10	1.37	2.04
16	1.28	1.19	1.21	1.04	1.20	1.40	1.25	1.03	1.13	1.20	1.29	1.52
17	1.27	1.05	1.24	1.19	1.21	1.28	1.23	1.05	1.14	1.45	1.26	1.35
18	1.26	1.31	1.18	1.72	1.18	1.28	1.22	1.07	1.12	1.43	1.25	1.31
19	1.21	1.60	1.15	1.47	1.24	1.24	1.23	1.17	1.12	1.70	1.23	1.34
20	1.37	1.32	1.10	1.32	1.21	1.23	1.23	1.25	1.11	2.31	1.20	1.25
21	1.51	1.33	1.11	1.30	1.23	1.26	1.28	1.14	1.11	1.70	1.19	1.22
22	1.44	1.37	1.16	1.28	1.22	1.22	1.22	1.20	1.40	1.46	1.20	1.29
23	1.29	1.43	1.25	1.23	1.15	1.11	1.17	1.16	1.41	1.36	1.20	1.32
24	1.29	1.44	1.25	1.20	1.58	1.09	1.19	1.08	0.95	1.32	1.20	1.29
25	1.28	1.37	1.17	1.21	2.12	1.16	1.17	1.00	0.97	1.31	1.28	1.51
26	1.36	1.35	1.10	1.21	1.68	---	1.13	0.95	0.99	1.28	1.35	2.25
27	1.42	1.35	1.06	1.47	1.51	---	1.11	0.92	1.19	1.50	1.33	1.87
28	1.74	1.37	1.09	1.29	1.41	---	1.10	0.97	1.19	1.41	1.32	1.64
29	1.28	1.12	1.10	1.25	1.35	---	1.09	0.98	1.38	1.48	1.38	1.54
30	1.13	1.08	1.10	1.25	---	---	1.11	1.08	1.26	1.52	1.48	1.51
31	0.98	---	1.07	1.35	---	---	---	1.12	---	1.50	1.51	---
MEAN	---	1.24	1.16	1.19	1.31	---	1.23	1.19	1.17	1.32	1.51	1.58
MAX	---	1.60	1.52	1.72	2.12	---	1.89	1.50	1.41	2.31	2.37	2.25
MIN	---	1.01	1.06	0.96	1.14	---	1.06	0.92	0.95	0.93	1.19	1.22
*PREC	---	1.75	1.29	5.42	5.43	0.85	3.37	2.41	6.28	2.81	12.92	14.09

\* Precipitation, total, inches

## 02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL.

LOCATION.--Lat 28° 01' 23", long 82° 44' 27" (1927 North American datum), in NW $\frac{1}{4}$  sec.30, T.28 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on right bank, 20 ft downstream from culvert on Evans Road, 800 ft west of U. S. Highway 19, and 2.8 mi east of Dunedin.

DRAINAGE AREA.--0.57 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

REMARKS.--Records poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.12	0.22	e0.19	1.9	1.1	0.77	e0.59	e0.15	0.53	e14	1.9
2	0.32	0.11	0.22	e0.19	0.55	1.2	0.68	e6.8	e0.09	0.51	e18	0.65
3	0.31	0.18	0.22	e0.18	0.50	1.0	0.62	e1.9	e0.09	0.48	e11	0.55
4	0.31	0.13	0.24	e0.18	0.49	0.90	0.45	e0.88	e0.09	2.3	2.9	0.79
5	0.31	0.52	0.23	e0.17	0.49	0.70	0.28	e0.79	e0.09	1.8	2.7	4.0
6	14	0.23	e0.20	e0.17	0.46	0.46	0.21	e0.73	e0.09	0.53	2.4	e53
7	3.5	0.16	e0.20	e0.16	0.45	0.38	0.21	e0.75	e0.09	1.3	e11	2.0
8	0.34	0.14	e0.19	e0.16	0.41	0.53	0.21	e0.69	e0.09	0.47	5.6	1.7
9	0.33	0.12	e0.19	e2.5	0.41	0.37	0.23	e0.63	e0.60	0.44	3.8	1.4
10	0.32	0.11	0.24	0.38	0.43	0.35	0.24	e0.56	e10	0.44	2.1	1.1
11	0.31	e0.10	0.24	0.25	0.39	0.33	4.0	e0.47	0.41	0.42	1.8	1.0
12	0.86	e0.10	e0.20	0.23	0.35	0.33	14	e0.47	0.21	0.42	1.7	1.0
13	0.32	e0.09	e0.20	0.24	0.32	0.33	1.4	e0.53	e10	0.44	2.8	0.90
14	0.31	e0.09	4.5	0.22	3.5	0.32	0.32	e0.56	1.3	0.52	e10	0.84
15	0.30	e0.08	0.38	0.22	0.35	0.77	0.30	e0.79	0.40	0.44	e23	0.91
16	0.28	e0.08	0.39	0.23	0.26	2.8	0.19	e1.2	0.60	0.83	1.5	0.81
17	0.27	e0.07	0.34	0.23	0.29	0.31	0.13	e0.57	0.33	e9.2	0.95	0.79
18	0.25	e0.07	0.32	7.5	0.29	0.31	0.17	e0.53	0.26	e25	0.82	0.74
19	0.28	4.9	0.30	0.83	0.63	0.44	0.14	e0.57	0.28	e35	0.76	0.72
20	0.28	0.42	0.28	0.44	0.92	0.54	0.13	e0.88	0.22	e25	0.77	0.76
21	0.27	0.35	0.29	0.40	1.3	0.50	0.11	e0.28	0.17	2.4	0.72	1.0
22	0.23	0.31	0.33	0.38	1.3	0.43	e0.11	e0.23	0.32	1.8	0.70	0.66
23	0.23	0.23	0.31	0.35	0.71	0.36	e0.10	e0.22	0.11	1.6	0.69	0.65
24	0.18	0.24	0.23	0.34	23	0.34	e0.10	e0.20	0.92	e13	0.64	0.61
25	0.17	0.29	e0.20	0.33	27	0.33	e0.09	e0.17	e3.3	2.1	e7.3	0.66
26	0.17	0.25	e0.20	0.32	3.2	0.35	e0.09	e0.11	e1.6	2.0	1.0	e26
27	0.16	e0.26	e0.20	11	1.7	0.38	e0.08	e0.11	0.90	1.7	0.67	2.1
28	0.55	e0.26	e0.20	0.49	1.5	0.33	e0.08	e0.17	0.41	1.7	0.60	1.2
29	0.41	0.27	e0.20	0.42	1.3	0.33	e0.07	e0.16	e10	1.6	0.59	1.0
30	0.18	0.22	e0.20	0.85	---	0.29	e0.07	e0.15	0.80	1.5	0.84	0.97
31	0.15	---	e0.19	3.1	---	0.59	---	e0.15	---	1.4	e2.5	---
TOTAL	27.00	10.50	11.85	32.65	74.40	17.70	25.58	22.84	43.92	136.87	133.85	110.41
MEAN	0.87	0.35	0.38	1.05	2.57	0.57	0.85	0.74	1.46	4.42	4.32	3.68
MAX	14	4.9	4.5	11	27	2.8	14	6.8	10	35	23	53
MIN	0.15	0.07	0.19	0.16	0.26	0.29	0.07	0.11	0.09	0.42	0.59	0.55
MED	0.31	0.17	0.22	0.32	0.50	0.38	0.20	0.56	0.33	1.5	1.8	0.94
AC-FT	54	21	24	65	148	35	51	45	87	271	265	219
CFSM	1.53	0.61	0.67	1.85	4.50	1.00	1.50	1.29	2.57	7.75	7.57	6.46
IN.	1.76	0.69	0.77	2.13	4.86	1.16	1.67	1.49	2.87	8.93	8.74	7.21
*PREC	2.72	1.70	1.10	6.45	5.12	0.72	3.51	2.04	6.54	10.23	11.04	11.41

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	0.69	0.36	1.11	0.64	0.96	0.63	0.58	0.29	1.68	3.23	2.22	2.17
MAX	0.87	0.61	4.24	1.05	2.57	1.03	1.13	0.74	3.33	4.69	4.32	3.68
(WY)	(2004)	(2003)	(2003)	(2002)	(2004)	(2001)	(2003)	(2004)	(2003)	(2000)	(2004)	(2004)
MIN	0.47	0.19	0.25	0.17	0.16	0.14	0.14	0.03	0.75	1.05	0.89	1.21
(WY)	(2001)	(2000)	(2000)	(2001)	(2000)	(2000)	(2000)	(2001)	(2000)	(2001)	(2001)	(2003)



02309415 CURLEW CREEK AT EVANS ROAD NEAR DUNEDIN, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	484.45		647.57		1.23	
ANNUAL MEAN	1.33		1.77		1.77 2004	
HIGHEST ANNUAL MEAN					0.76 2001	
LOWEST ANNUAL MEAN					63 Jul 15, 2000	
HIGHEST DAILY MEAN	29	Jun 18	53	Sep 6	0.00 Many Days	
LOWEST DAILY MEAN	0.07	Nov 17	0.07	Nov 17	0.00 May 30, 2002	
ANNUAL SEVEN-DAY MINIMUM	0.08	Nov 12	0.08	Nov 12	1,050 Jul 15, 2000	
MAXIMUM PEAK FLOW			409	Oct 6	6.59 Jul 15, 2000	
MAXIMUM PEAK STAGE			4.56	Oct 6	889	
ANNUAL RUNOFF (AC-FT)	961		1,280		2.15	
ANNUAL RUNOFF (CFSM)	2.33		3.10		29.25	
ANNUAL RUNOFF (INCHES)	31.62		42.26		2.2	
10 PERCENT EXCEEDS	3.1		2.8		0.33	
50 PERCENT EXCEEDS	0.35		0.41		0.05	
90 PERCENT EXCEEDS	0.14		0.14			

e Estimated

\* Precipitation, total, inches

02309421 CURLEW CREEK AT BELCHER ROAD NEAR OZONA, FL.

LOCATION.--Lat 28° 02'24", long 82° 44'51" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.19, T.28 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, on left bank, 100 ft upstream from bridge, and 2.0 mi southeast of Ozona.

DRAINAGE AREA.--3.4 mi<sup>2</sup>.

PERIOD OF RECORD.--June 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	4.5	3.3	3.3	19	8.5	4.3	5.8	4.1	5.7	36	23
2	7.4	4.7	3.2	3.3	9.7	7.9	4.4	32	3.9	4.6	42	13
3	6.3	6.0	3.1	3.3	7.9	7.5	4.4	16	3.8	4.3	30	10
4	5.9	4.8	3.1	3.3	7.1	7.0	4.4	8.5	3.9	6.3	24	11
5	5.4	6.2	3.3	3.3	6.6	6.7	4.1	6.8	4.2	11	25	26
6	28	5.9	3.3	3.3	6.4	6.5	4.1	6.3	4.3	6.0	19	202
7	46	4.8	3.2	3.2	6.3	6.3	4.2	5.9	4.2	9.8	45	42
8	14	4.6	3.1	3.1	5.9	6.1	4.2	5.8	4.3	6.1	35	32
9	9.6	4.4	3.1	12	5.6	5.8	4.2	5.6	6.5	4.6	26	30
10	8.3	4.3	3.4	5.5	5.5	5.5	4.2	5.4	27	4.1	20	23
11	7.6	4.2	3.3	3.9	5.4	5.3	19	5.2	6.0	3.9	15	19
12	8.8	4.0	3.1	3.4	5.4	5.3	64	5.2	4.0	3.8	14	18
13	7.5	4.1	3.2	3.2	5.3	5.3	19	5.1	26	3.6	17	16
14	6.5	3.9	15	3.2	19	5.1	11	5.0	17	3.7	30	14
15	5.9	4.0	4.8	3.1	11	6.9	8.6	5.3	6.6	3.6	65	14
16	5.6	3.9	3.8	3.1	7.0	14	7.6	7.3	5.8	8.3	29	12
17	5.4	3.9	3.8	3.1	6.2	7.2	7.3	5.8	4.9	29	20	14
18	5.3	3.9	3.6	e55	5.6	5.9	6.9	4.9	4.3	67	15	12
19	5.1	17	3.4	e11	5.3	6.1	6.6	5.0	4.2	81	13	9.5
20	4.9	5.0	3.4	e7.3	5.2	5.6	6.9	6.0	6.7	76	12	9.1
21	4.8	3.9	3.4	5.4	5.2	5.2	6.6	5.0	4.1	28	11	12
22	4.8	3.7	3.3	5.1	5.0	4.9	6.3	4.7	4.4	19	10	8.9
23	4.8	3.5	3.3	e4.8	4.9	4.8	6.1	4.6	3.7	14	9.4	8.2
24	4.6	3.9	3.4	e4.8	39	4.6	5.9	4.4	5.0	37	8.9	8.0
25	4.6	3.8	3.3	e5.4	69	4.6	5.9	4.4	7.4	23	29	7.9
26	4.6	3.5	3.3	e6.4	18	4.5	5.7	4.4	5.5	16	20	82
27	4.6	3.5	3.3	75	13	4.5	5.7	4.3	6.5	16	13	36
28	6.3	4.2	3.4	10	11	4.4	5.6	4.3	4.3	12	11	21
29	6.7	3.8	3.5	7.8	9.4	4.5	5.5	4.3	26	11	9.5	16
30	5.1	3.3	3.4	8.2	---	4.3	5.4	4.2	11	11	11	15
31	4.4	---	3.4	16	---	4.4	---	4.2	---	10	14	---
TOTAL	261.8	141.2	116.5	288.8	329.9	185.2	258.1	201.7	229.6	539.4	678.8	764.6
MEAN	8.45	4.71	3.76	9.32	11.4	5.97	8.60	6.51	7.65	17.4	21.9	25.5
MAX	46	17	15	75	69	14	64	32	27	81	65	202
MIN	4.4	3.3	3.1	3.1	4.9	4.3	4.1	4.2	3.7	3.6	8.9	7.9
MED	5.9	4.1	3.3	4.8	6.4	5.5	5.8	5.2	4.7	10	19	15
AC-FT	519	280	231	573	654	367	512	400	455	1,070	1,350	1,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	8.77	5.40	15.2	10.5	11.5	7.30	8.93	5.91	14.0	21.6	20.2	18.0
MAX	9.10	6.10	26.6	11.8	11.6	8.63	9.25	6.51	20.3	26.7	21.9	25.5
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)	(2004)
MIN	8.45	4.71	3.76	9.32	11.4	5.97	8.60	5.31	7.65	17.4	18.1	14.1
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2002)	(2002)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 2002 - 2004

ANNUAL TOTAL	4,421.8	3,995.6		
ANNUAL MEAN	12.1	10.9	12.6	
HIGHEST ANNUAL MEAN			14.2	2003
LOWEST ANNUAL MEAN			10.9	2004
HIGHEST DAILY MEAN	133	Jul 14	202	Sep 6, 2004
LOWEST DAILY MEAN	3.1	Dec 3	3.1	Dec 3, 2002
ANNUAL SEVEN-DAY MINIMUM	3.2	Dec 3	3.2	Dec 3, 2003
MAXIMUM PEAK FLOW			548	Oct 6, 2002
MAXIMUM PEAK STAGE			7.88	Oct 6, 2002
ANNUAL RUNOFF (AC-FT)	8,770	7,930	9,110	
10 PERCENT EXCEEDS	23	23	26	
50 PERCENT EXCEEDS	7.2	5.8	6.7	
90 PERCENT EXCEEDS	3.6	3.4	3.9	

e Estimated

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL.

LOCATION.--Lat 28°02'48", long 82°45'32" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.13, T.28 S., R.15 E., Pinellas County, Hydrologic Unit 03100207, on right bank, 200 ft upstream from bridge on County Road 1, and 1.9 mi southeast of Ozona.

DRAINAGE AREA.--4.09 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1999 to current year.

GAGE.--Water-stage and tipping bucket raingage recorders. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Collection, computation and publication of precipitation data do not necessarily conform to standards used by the National Weather Service.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	5.3	4.8	3.8	41	19	5.7	6.0	3.1	12	45	38
2	18	5.4	4.5	3.7	25	17	5.4	36	3.2	9.1	65	25
3	15	7.4	4.4	3.9	19	15	5.4	25	3.0	8.0	59	19
4	13	6.1	4.3	3.9	16	14	5.4	15	2.8	11	48	17
5	12	7.6	4.3	4.0	14	13	5.0	11	2.8	15	44	35
6	22	9.0	4.4	4.2	13	12	4.7	9.1	2.9	10	35	406
7	80	6.6	4.2	4.0	12	12	5.0	8.1	2.7	15	65	121
8	26	6.2	3.9	4.0	11	11	5.0	7.2	2.8	10	52	59
9	18	5.7	4.0	16	9.8	10	4.9	6.4	6.6	7.5	46	50
10	15	5.4	4.5	12	9.4	9.4	5.0	5.8	29	6.5	38	42
11	13	5.2	4.3	7.4	9.1	8.9	20	5.5	12	5.7	31	36
12	13	4.9	3.9	5.8	8.8	8.6	95	5.3	8.8	5.4	27	33
13	12	4.9	4.0	5.1	8.5	8.5	42	5.1	28	4.9	29	30
14	10	4.3	22	4.9	26	8.0	25	4.7	e20	4.9	45	27
15	9.2	4.4	9.2	4.6	25	11	18	4.7	e12	4.7	95	26
16	8.2	4.3	6.8	4.3	15	26	15	7.7	e11	12	51	23
17	7.7	4.3	6.3	4.3	13	15	13	6.3	10	41	37	24
18	7.5	4.2	5.4	53	11	11	11	4.9	7.7	104	29	21
19	7.3	28	5.0	25	9.9	11	10	4.6	7.0	145	24	17
20	6.9	e20	4.6	16	9.3	9.8	9.9	6.5	9.9	180	21	15
21	6.7	e15	4.5	12	9.1	8.7	9.2	4.7	5.8	77	20	20
22	6.4	e8.1	4.4	9.4	8.6	8.1	8.7	4.5	6.1	44	17	15
23	6.2	7.3	4.4	8.2	8.1	7.6	7.7	4.1	4.8	33	15	13
24	5.7	6.7	4.4	7.9	47	7.1	7.4	3.8	8.5	55	13	12
25	5.7	6.2	4.1	7.6	145	6.9	6.9	3.7	13	44	33	12
26	5.5	5.6	4.0	7.1	47	6.6	6.3	3.7	e10	36	38	118
27	5.4	5.4	4.0	87	33	6.6	6.0	3.6	e11	33	29	66
28	7.0	6.4	3.9	29	27	6.4	5.9	3.5	7.9	25	23	41
29	9.7	6.0	3.8	19	23	6.2	5.4	3.4	33	22	18	32
30	6.6	4.9	3.7	17	---	6.0	5.1	3.3	24	19	18	29
31	5.4	---	3.8	27	---	6.0	---	3.3	---	16	19	---
TOTAL	413.1	220.8	159.8	421.1	653.6	326.4	379.0	226.5	309.4	1,015.7	1,129	1,422
MEAN	13.3	7.36	5.15	13.6	22.5	10.5	12.6	7.31	10.3	32.8	36.4	47.4
MAX	80	28	22	87	145	26	95	36	33	180	95	406
MIN	5.4	4.2	3.7	3.7	8.1	6.0	4.7	3.3	2.7	4.7	13	12
MED	9.2	5.9	4.4	7.4	13	9.4	6.6	5.1	8.2	15	33	28
AC-FT	819	438	317	835	1,300	647	752	449	614	2,010	2,240	2,820
CFSM	3.26	1.80	1.26	3.32	5.51	2.57	3.09	1.79	2.52	8.01	8.90	11.6
IN.	3.76	2.01	1.45	3.83	5.94	2.97	3.45	2.06	2.81	9.24	10.27	12.93
*PREC	1.02	1.50	1.01	4.74	4.05	0.88	3.09	1.60	3.53	8.88	7.15	9.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2004, BY WATER YEAR (WY)

MEAN	10.9	6.61	16.7	11.7	12.7	9.91	10.5	4.55	17.9	36.0	29.6	30.0
MAX	14.8	9.53	64.5	26.6	22.5	17.8	24.1	7.64	44.3	50.3	43.6	47.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	5.79	4.72	4.18	4.75	5.82	3.72	2.72	1.96	7.57	22.3	12.3	13.3
(WY)	(2001)	(2001)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2001)	(2002)

02309425 CURLEW CREEK AT COUNTY ROAD 1 NEAR OZONA, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1999 - 2004	
ANNUAL TOTAL	8,781.5		6,676.4			
ANNUAL MEAN	24.1		18.2		16.6	
HIGHEST ANNUAL MEAN					29.4	2003
LOWEST ANNUAL MEAN					10.4	2001
HIGHEST DAILY MEAN	202	Aug 10	406	Sep 6	406	Sep 6, 2004
LOWEST DAILY MEAN	3.7	Dec 30	2.7	Jun 7	1.5	Jun 2, 2000
ANNUAL SEVEN-DAY MINIMUM	3.9	Dec 25	2.9	Jun 2	1.7	May 25, 2001
MAXIMUM PEAK FLOW			810	Sep 6	1,100	Jul 15, 2000
MAXIMUM PEAK STAGE			8.51	Sep 6	10.16	Jul 15, 2000
ANNUAL RUNOFF (AC-FT)	17,420		13,240		12,030	
ANNUAL RUNOFF (CFSM)	5.88		4.46		4.06	
ANNUAL RUNOFF (INCHES)	79.87		60.72		55.14	
10 PERCENT EXCEEDS	46		39		36	
50 PERCENT EXCEEDS	15		9.1		7.4	
90 PERCENT EXCEEDS	4.6		4.2		3.4	

e Estimated

\* Precipitation, total, inches

02309848 SOUTH BRANCH ANCLOTE RIVER NEAR ODESSA, FL.

LOCATION.--Lat 28° 11'08", long 82° 33'13" (1927 North American datum), in SE 1/4 sec.36, T.26 S., R.17 E., Pasco County, Hydrologic Unit 03100207, near left bank, 10 ft upstream from dual highway culvert on State Highway 54, 2.5 mi east of Odessa, 3.0 mi upstream from unnamed tributary, and 5.2 mi upstream from mouth.

DRAINAGE AREA.--17.1 mi<sup>2</sup>.

PERIOD OF RECORD.--February 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 46.22 ft above National Geodetic Vertical Datum of 1929. Prior to Mar. 17, 1971, at site 30 ft upstream at same datum; Mar. 17, 1971, to July 29, 2003, at site 100 ft downstream at same datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	e1.0	0.30	0.18	6.7	7.9	0.11	0.06	0.00	0.93	15	8.9
2	9.0	e0.94	0.19	0.16	5.7	7.0	0.09	0.04	0.00	1.1	14	8.2
3	8.1	e0.86	0.23	0.15	4.7	5.9	0.06	0.11	0.00	1.1	15	7.0
4	8.2	e1.3	0.24	0.15	4.1	5.1	0.04	0.14	0.00	0.76	15	6.0
5	7.0	e2.0	0.23	0.16	3.7	4.4	0.03	0.25	0.00	0.82	15	12
6	6.1	e2.8	0.19	0.15	3.4	3.8	0.02	0.09	0.00	1.2	14	177
7	5.9	e2.6	0.15	0.12	3.1	3.3	0.01	0.05	0.00	1.4	20	219
8	7.7	e2.2	0.14	0.10	2.5	2.8	0.01	0.03	0.00	1.2	52	218
9	7.5	e1.9	0.12	0.14	2.2	2.4	0.01	0.01	0.00	1.2	73	348
10	6.7	e1.7	0.13	0.22	2.0	1.9	0.02	0.00	0.04	1.1	63	224
11	6.3	e1.5	0.12	0.20	1.9	1.6	0.21	0.00	0.02	0.90	53	146
12	5.9	e1.3	0.09	0.20	1.8	1.4	5.3	0.00	0.09	0.79	43	104
13	4.1	e1.1	0.08	0.20	1.8	1.2	3.9	0.00	0.13	0.89	33	80
14	0.02	e0.94	0.57	0.21	3.1	1.1	2.0	0.00	0.46	0.81	48	60
15	18	e0.89	0.97	0.16	6.1	1.1	1.7	0.00	1.3	0.59	78	46
16	e4.0	e0.83	1.1	0.18	4.9	2.3	1.4	0.00	1.5	1.4	54	34
17	e3.6	e0.67	0.90	0.16	4.3	2.2	1.1	0.00	0.49	2.8	43	25
18	e3.2	e0.79	0.69	1.1	4.0	1.8	0.89	0.00	0.19	14	32	18
19	e2.9	1.2	0.63	1.8	3.8	1.4	0.73	0.00	0.51	69	23	14
20	e2.6	1.3	0.46	1.8	3.4	1.1	0.62	0.00	1.5	79	19	10
21	e2.3	1.1	0.39	1.4	3.2	0.95	0.53	0.00	0.84	62	17	11
22	e2.0	0.92	0.34	1.1	2.8	0.76	0.50	0.00	0.60	38	17	9.3
23	e1.7	0.74	0.33	0.94	2.4	0.62	0.36	0.00	0.45	23	14	7.1
24	e1.5	0.61	0.31	0.78	4.3	0.51	0.28	0.00	0.26	17	12	5.8
25	e1.3	0.53	0.29	0.70	22	0.45	0.21	0.00	0.16	15	11	6.6
26	e1.2	0.49	0.26	0.66	16	0.39	0.17	0.00	0.08	13	11	22
27	e1.1	0.45	0.24	6.3	13	0.32	0.14	0.00	0.04	18	10	63
28	e1.4	0.43	0.24	4.7	11	0.26	0.11	0.00	0.05	19	9.3	50
29	e1.4	0.35	0.22	3.5	9.1	0.21	0.07	0.00	0.10	21	8.4	35
30	e1.4	0.31	0.20	3.3	---	0.17	0.06	0.00	0.33	26	7.5	28
31	e1.2	---	0.19	4.1	---	0.13	---	0.00	---	18	7.9	---
TOTAL	142.62	33.75	10.54	35.02	157.0	64.47	20.68	0.78	9.14	450.99	847.1	2,002.9
MEAN	4.60	1.12	0.34	1.13	5.41	2.08	0.69	0.03	0.30	14.5	27.3	66.8
MAX	18	2.8	1.1	6.3	22	7.9	5.3	0.25	1.5	79	78	348
MIN	0.02	0.31	0.08	0.10	1.8	0.13	0.01	0.00	0.00	0.59	7.5	5.8

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2004, BY WATER YEAR (WY)

	(1980)	(1998)	(2003)	(1998)	(1998)	(1998)	(1987)	(1979)	(2003)	(2003)	(2003)	(1998)
MEAN	2.56	1.23	3.65	2.16	3.12	3.18	1.41	0.77	2.56	3.69	8.59	15.5
MAX	11.5	28.1	68.7	30.9	47.2	30.4	18.1	16.2	34.8	21.5	42.7	79.8
(WY)	(1980)	(1998)	(2003)	(1998)	(1998)	(1998)	(1987)	(1979)	(2003)	(2003)	(2003)	(1998)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1971)	(1971)	(1971)	(1971)	(1976)	(1976)	(1971)	(1971)	(1971)	(1972)	(1972)	(1972)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1971 - 2004

ANNUAL TOTAL	4,715.42		3,774.99			
ANNUAL MEAN	12.9		10.3		4.03	
HIGHEST ANNUAL MEAN					23.8	
LOWEST ANNUAL MEAN					0.59	
HIGHEST DAILY MEAN	138	Jun 21	348	Sep 9	353	Dec 13, 2002
LOWEST DAILY MEAN	0.00	Many Days	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.00	Apr 16	0.00	May 10	0.00	Oct 1, 1970
MAXIMUM PEAK FLOW			393	Sep 9	455	Dec 13, 2002
MAXIMUM PEAK STAGE			7.00	Sep 9	7.00	Sep 9, 2004
10 PERCENT EXCEEDS	41		21		8.3	
50 PERCENT EXCEEDS	3.1		1.2		0.03	
90 PERCENT EXCEEDS	0.02		0.02		0.00	

e Estimated

02310000 ANCLOTE RIVER NEAR ELFERS, FL.

LOCATION.--Lat 28° 12'50", long 82° 39'57" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.23, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, on left bank, 100 ft upstream from bridge on State Highway 54, 3.5 mi east of Elfers, and 16 mi upstream from mouth.

DRAINAGE AREA.--72.5 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1946 to current year.

REVISED RECORDS.--WSP 1434: Drainage area. WSP 1905: 1950-65 (P).

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to June 19, 2002, at site 140 ft downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 27.7 ft, Aug. 8 or 9, 1945, from information by local residents and floodmarks; discharge, 5,000 ft<sup>3</sup>/s, from rating curve extended above 3,700 ft<sup>3</sup>/s.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	18	e5.9	5.8	58	171	12	6.1	4.9	20	314	170
2	68	16	e5.7	5.6	75	130	11	6.8	4.8	59	329	137
3	64	15	e5.4	5.5	74	104	10	9.1	4.7	54	313	115
4	58	15	e5.2	5.4	62	87	9.8	12	4.7	37	427	96
5	52	19	e5.2	5.2	53	75	9.1	8.1	5.0	24	516	122
6	46	26	e5.0	5.3	46	65	8.5	7.2	5.0	23	462	919
7	41	33	4.9	5.1	40	58	8.2	6.4	5.4	26	567	2,420
8	38	31	4.7	4.9	36	52	8.0	5.9	6.4	21	1,520	2,410
9	56	26	4.6	5.0	31	46	7.7	5.6	6.8	17	2,000	1,900
10	58	24	4.6	5.6	28	40	7.3	5.4	6.6	13	1,560	1,570
11	61	22	4.6	5.6	25	35	9.5	5.4	7.2	10	978	1,360
12	62	20	4.5	5.7	24	31	45	5.3	6.4	8.5	642	1,040
13	63	18	4.4	5.6	23	28	76	5.2	6.5	7.7	493	813
14	63	16	11	5.5	29	25	73	5.1	7.5	7.2	618	625
15	56	15	16	5.3	52	24	55	5.1	11	7.1	1,510	513
16	49	14	19	5.0	74	35	43	5.1	11	7.1	1,750	423
17	44	14	16	4.8	66	50	33	5.1	12	7.0	1,230	353
18	41	12	13	12	54	57	26	5.0	9.0	28	730	296
19	37	13	12	18	47	48	20	4.9	6.9	232	479	246
20	34	15	11	20	41	41	16	5.0	9.9	632	336	206
21	31	16	9.4	16	36	36	13	4.9	9.7	891	256	209
22	28	15	8.8	15	32	32	11	4.9	8.2	812	213	209
23	26	14	8.4	13	29	28	9.8	4.9	6.9	577	188	199
24	23	13	8.4	12	38	24	8.8	4.8	6.2	375	175	171
25	20	12	7.9	11	211	21	8.0	4.8	5.8	290	169	148
26	19	e10	7.4	10	492	19	7.4	4.8	5.6	273	253	241
27	18	e8.0	7.0	38	483	17	6.9	4.7	5.8	231	355	657
28	18	e7.2	6.7	49	343	16	6.6	4.7	5.8	266	374	1,220
29	20	e6.7	6.6	51	241	15	6.3	4.6	6.4	336	318	1,200
30	20	e6.1	6.5	41	---	14	6.1	4.6	8.0	386	259	879
31	20	---	6.4	39	---	13	---	4.7	---	370	219	---
TOTAL	1,300	490.0	246.2	435.9	2,843	1,437	572.0	176.2	210.1	6,047.6	19,553	20,867
MEAN	41.9	16.3	7.94	14.1	98.0	46.4	19.1	5.68	7.00	195	631	696
MAX	68	33	19	51	492	171	76	12	12	891	2,000	2,420
MIN	18	6.1	4.4	4.8	23	13	6.1	4.6	4.7	7.0	169	96
CFSM	0.58	0.23	0.11	0.19	1.35	0.64	0.26	0.08	0.10	2.69	8.70	9.59
IN.	0.67	0.25	0.13	0.22	1.46	0.74	0.29	0.09	0.11	3.10	10.03	10.71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2004, BY WATER YEAR (WY)

MEAN	63.6	22.1	38.6	45.3	50.8	75.6	35.7	14.7	29.4	71.0	164	181
MAX	252	150	562	354	462	612	335	245	336	424	631	696
(WY)	(1948)	(1989)	(1998)	(1998)	(1998)	(1960)	(1953)	(1979)	(2003)	(1960)	(2004)	(2004)
MIN	3.18	2.19	2.48	2.36	2.58	2.42	2.17	1.43	1.74	2.34	2.67	7.68
(WY)	(1973)	(1982)	(1991)	(1991)	(1985)	(1985)	(1990)	(1981)	(1963)	(1992)	(1989)	(1980)

## 02310000 ANCLOTE RIVER NEAR ELFERS, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1947 - 2004	
ANNUAL TOTAL	54,378.6		54,178.0			
ANNUAL MEAN	149		148		66.1	
HIGHEST ANNUAL MEAN					228	1959
LOWEST ANNUAL MEAN					8.86	1981
HIGHEST DAILY MEAN	1,480	Aug 12	2,420	Sep 7	3,710	Jul 30, 1960
LOWEST DAILY MEAN	3.9	May 28	4.4	Dec 13	0.80	May 26, 1962
ANNUAL SEVEN-DAY MINIMUM	4.0	May 27	4.6	Dec 7	0.91	May 19, 1981
MAXIMUM PEAK FLOW			2,680	Sep 7	3,890	Jul 30, 1960
MAXIMUM PEAK STAGE			24.44	Sep 7	26.09	Jul 30, 1960
ANNUAL RUNOFF (CFSM)	2.05		2.04		0.912	
ANNUAL RUNOFF (INCHES)	27.90		27.80		12.39	
10 PERCENT EXCEEDS	491		424		176	
50 PERCENT EXCEEDS	52		20		11	
90 PERCENT EXCEEDS	5.1		5.1		2.8	

e Estimated

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL.

LOCATION.--Lat 28°09'44", long 82°42'38" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.4, T.27 S., R.16 E., Pinellas County, Hydrologic Unit 03100207, 10 ft upstream from twin box culverts on abandoned railroad grade, 700 ft northeast of County Road 77, 0.8 mi upstream from mouth, and 3.0 mi northeast of Tarpon Springs.

DRAINAGE AREA.--8.31 mi<sup>2</sup>, revised.

PERIOD OF RECORD.--June 1981 to current year. Prior to October 1984, mean daily discharges published in U. S. Geological Survey Open-File Report 86-55.

GAGE.--Water-stage recorder. Datum of gage is 7.06 ft below National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Stage-discharge relation affected by tide on some days.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	1.3	0.68	0.70	12	16	0.97	1.1	0.54	0.31	17	e21
2	3.8	1.2	0.65	0.70	11	13	0.92	2.3	0.52	0.32	22	e19
3	3.6	1.1	0.58	0.70	9.2	11	0.83	3.5	0.55	0.34	31	e14
4	3.4	1.1	0.56	0.70	7.4	9.3	0.78	2.8	0.49	0.26	39	e14
5	3.1	1.1	0.54	0.69	6.1	7.9	0.76	2.2	0.64	0.24	44	e48
6	2.4	1.2	0.54	0.70	5.3	6.9	0.74	1.9	0.51	0.22	37	e169
7	2.3	1.2	0.54	0.69	4.6	6.0	0.69	1.7	0.46	0.25	37	e235
8	2.0	1.2	0.50	0.67	4.1	5.1	0.62	1.5	0.54	0.27	36	e160
9	2.0	1.2	0.45	0.94	3.4	4.3	0.62	1.3	0.81	0.22	35	e121
10	1.9	1.2	0.44	1.2	3.1	3.8	0.62	1.2	0.51	0.19	33	e99
11	1.9	1.1	0.48	0.93	2.9	3.2	1.4	1.2	0.46	0.18	29	e80
12	1.9	1.1	0.48	0.88	2.8	2.8	16	1.1	0.43	0.19	e31	e72
13	1.9	1.0	0.48	0.88	2.7	2.5	14	1.00	0.62	0.25	e33	e79
14	1.8	0.97	2.1	0.86	5.2	2.3	11	0.92	0.98	0.23	e51	e76
15	1.7	0.88	1.3	0.87	10	2.3	6.2	0.85	0.60	0.21	e81	e70
16	1.6	0.88	0.99	0.88	9.7	3.8	4.2	0.84	0.51	0.33	e67	e62
17	1.6	0.88	1.0	0.86	8.3	3.8	3.3	0.82	0.41	0.36	e52	e54
18	1.5	0.88	0.99	5.8	6.6	3.5	2.7	0.81	0.36	4.6	e41	e49
19	1.5	1.2	1.0	5.7	5.5	3.2	2.5	0.75	0.33	22	e34	e44
20	1.5	0.97	0.99	5.6	4.7	3.0	2.3	0.73	1.1	50	e29	e39
21	1.5	0.88	0.93	4.2	4.1	2.6	2.3	0.72	0.72	71	e25	e39
22	1.5	0.88	0.86	3.2	3.7	2.2	2.1	0.69	0.47	48	e28	e38
23	1.4	0.82	0.83	2.5	3.4	1.8	2.1	0.67	0.39	32	e31	e35
24	1.4	0.87	0.80	2.1	7.8	1.6	2.1	0.65	0.32	28	e22	e33
25	1.5	0.92	0.79	1.7	36	1.4	1.8	0.65	0.25	35	e22	e34
26	1.4	0.81	0.76	1.5	41	1.3	1.8	0.61	0.25	31	e29	e63
27	1.4	0.79	0.74	14	32	1.3	1.5	0.59	0.24	25	e31	e114
28	2.6	0.79	0.71	12	26	1.1	1.3	0.59	0.24	20	e29	e99
29	3.6	0.79	0.70	9.1	20	1.1	1.2	0.58	0.32	18	e26	e70
30	1.4	0.73	0.70	6.7	---	0.99	1.2	0.57	0.41	18	e24	e55
31	1.3	---	0.70	6.8	---	0.97	---	0.56	---	16	e23	---
TOTAL	64.3	29.94	23.81	94.75	298.6	130.06	88.55	35.40	14.98	422.97	1,069	2,105
MEAN	2.07	1.00	0.77	3.06	10.3	4.20	2.95	1.14	0.50	13.6	34.5	70.2
MAX	3.9	1.3	2.1	14	41	16	16	3.5	1.1	71	81	235
MIN	1.3	0.73	0.44	0.67	2.7	0.97	0.62	0.56	0.24	0.18	17	14
CFSM	0.47	0.23	0.17	0.69	2.32	0.95	0.67	0.26	0.11	3.08	7.78	15.8
IN.	0.54	0.25	0.20	0.80	2.51	1.09	0.74	0.30	0.13	3.55	8.98	17.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004, BY WATER YEAR (WY)

MEAN	5.38	2.30	5.43	4.02	5.59	5.75	2.65	0.77	2.73	4.99	8.52	11.8
MAX	40.3	15.4	52.9	23.6	51.6	43.9	10.7	3.00	34.4	16.9	37.0	70.2
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1993)	(1991)	(2003)	(2002)	(1991)	(2004)
MIN	0.14	0.17	0.29	0.14	0.36	0.39	0.24	0.08	0.11	0.24	0.63	1.05
(WY)	(1982)	(1982)	(1983)	(1985)	(1985)	(1997)	(1985)	(1985)	(2000)	(1988)	(1997)	(1990)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

FOR 2004 WATER YEAR

WATER YEARS 1982 - 2004

ANNUAL TOTAL	3,724.94		4,377.36		4.99	
ANNUAL MEAN	10.2		12.0		20.0	
HIGHEST ANNUAL MEAN					1998	
LOWEST ANNUAL MEAN					1.04	
HIGHEST DAILY MEAN	175	Jun 23	235	Sep 7	313	Sep 9, 1988
LOWEST DAILY MEAN	0.19	Jun 8	0.18	Jul 11	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.25	May 27	0.21	Jul 9	0.00	May 19, 1982
MAXIMUM PEAK FLOW			Unknown		370	Sep 9, 1988
MAXIMUM PEAK STAGE			Unknown		15.90	Sep 9, 1988
ANNUAL RUNOFF (CFSM)	2.30		2.70		1.13	
ANNUAL RUNOFF (INCHES)	31.28		36.76		15.31	
10 PERCENT EXCEEDS	26		36		11	
50 PERCENT EXCEEDS	3.1		1.5		1.1	
90 PERCENT EXCEEDS	0.70		0.48		0.25	

e Estimated





## 02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL.

LOCATION.--Lat 28° 19'44", long 82° 32'13" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.7, T.25 S., R.18 E., Pasco County, Hydrologic Unit 03100207, at bridge on State Highway 52, 1.2 mi west of Fivay Junction, 3.5 mi above Fivemile Creek, and 21 mi upstream from mouth.

DRAINAGE AREA.--150 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1964 to October 1966 (discharge measurements and crest-stage partial records); November 1966 to September 1972 (discharge measurements only); October 1972 to September 1978 (gage heights and periodic discharge measurements only); October 1978 to September 1983 (discharge measurements only); October 1983 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Feb. 12, 1968, nonrecording gage 20 ft downstream and Feb. 12, 1968, to Sept. 30, 1972, nonrecording gage at present site and datum; Oct. 1, 1972, to Sept. 30, 1978, water-stage recorder at present site at datum 40.00 ft higher; Oct. 1, 1978, to Sept. 30, 1983, nonrecording gage at present site and datum.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	2.5	1.5	1.7	9.2	16	1.3	0.49	0.00	5.8	27	10
2	9.3	2.4	1.4	1.7	e8.7	14	1.1	0.49	0.00	4.4	25	8.7
3	8.6	2.5	1.3	1.8	e8.0	13	1.0	3.6	0.00	3.5	23	7.1
4	7.9	2.5	1.2	1.8	e7.4	11	0.87	5.1	0.00	2.9	22	5.9
5	7.3	2.8	1.3	1.8	e6.7	10	0.76	3.1	0.00	2.6	22	12
6	6.5	3.6	1.3	1.6	e6.0	9.5	0.64	2.2	0.00	2.5	20	102
7	6.9	3.3	1.2	1.6	e5.4	8.6	0.57	1.7	0.00	3.6	19	129
8	11	3.2	1.2	1.6	e4.9	7.9	0.51	1.4	0.00	5.7	21	124
9	8.5	3.0	1.1	1.5	e4.5	7.1	0.49	1.0	0.01	7.4	22	116
10	7.4	2.8	1.1	1.7	4.1	6.3	0.41	0.75	0.06	4.4	18	106
11	6.9	2.7	1.1	1.6	3.9	5.7	0.55	0.62	0.04	3.1	16	76
12	7.0	2.5	1.1	1.4	3.7	5.2	6.6	0.51	0.01	2.4	17	59
13	7.6	2.4	1.1	1.4	3.5	4.8	8.7	0.39	0.01	2.6	16	51
14	6.9	2.2	2.9	1.5	4.8	4.2	6.3	0.29	0.70	2.6	19	44
15	6.4	2.0	4.5	1.4	12	4.1	5.1	0.23	3.9	1.9	29	40
16	5.7	1.7	3.7	1.4	10	7.7	4.4	0.25	7.8	2.2	23	36
17	5.2	1.6	3.3	1.3	9.4	7.8	3.8	0.24	4.9	1.7	21	32
18	4.8	1.6	3.0	3.1	8.5	6.7	3.3	0.22	3.4	7.7	19	29
19	4.4	2.2	2.8	4.5	7.6	6.1	2.8	0.15	2.6	25	17	26
20	4.0	2.7	2.6	3.8	6.8	5.5	2.4	0.25	2.1	51	15	24
21	3.8	2.3	2.4	3.4	6.1	4.8	2.1	0.18	1.7	42	15	23
22	3.5	2.1	2.2	3.0	5.5	4.4	1.9	0.10	1.7	33	15	23
23	3.2	2.0	2.2	2.7	5.0	3.8	1.6	0.06	1.5	25	14	21
24	2.9	1.8	2.2	2.6	6.8	3.4	1.4	0.04	0.98	21	12	20
25	2.7	1.8	2.1	2.5	27	3.0	1.2	0.02	0.79	23	12	18
26	2.4	1.8	2.0	2.4	24	2.6	0.97	0.01	0.60	26	15	34
27	2.3	1.7	1.9	8.7	22	2.4	0.86	0.00	1.4	41	15	75
28	2.3	1.7	1.8	8.5	20	2.1	0.82	0.00	1.2	46	14	66
29	3.1	1.7	1.8	6.8	18	1.9	0.63	0.00	1.7	43	12	67
30	3.0	1.6	1.8	6.0	---	1.6	0.54	0.00	6.0	36	11	66
31	2.7	---	1.8	6.1	---	1.4	---	0.00	---	31	12	---
TOTAL	173.9	68.7	60.9	90.9	269.5	192.6	63.62	23.39	43.10	510.0	558	1,450.7
MEAN	5.61	2.29	1.96	2.93	9.29	6.21	2.12	0.75	1.44	16.5	18.0	48.4
MAX	11	3.6	4.5	8.7	27	16	8.7	5.1	7.8	51	29	129
MIN	2.3	1.6	1.1	1.3	3.5	1.4	0.41	0.00	0.00	1.7	11	5.9
IN.	0.04	0.02	0.02	0.02	0.07	0.05	0.02	0.01	0.01	0.13	0.14	0.36

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

MEAN	5.16	3.04	5.72	7.53	6.35	8.20	4.07	1.36	2.15	7.64	10.8	15.3
MAX	22.5	16.5	45.0	59.1	52.4	53.1	35.4	18.6	14.0	27.5	43.2	77.2
(WY)	(1996)	(1989)	(1998)	(1998)	(1998)	(1998)	(1987)	(1987)	(2003)	(1987)	(2003)	(1988)
MIN	0.45	0.04	0.14	0.31	0.32	0.05	0.00	0.00	0.00	0.41	1.49	1.17
(WY)	(2001)	(2001)	(2001)	(1997)	(1997)	(2000)	(2000)	(1985)	(1998)	(1992)	(1993)	(1999)

02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1984 - 2004	
ANNUAL TOTAL	4,530.55		3,505.31			
ANNUAL MEAN	12.4		9.58		6.45	
HIGHEST ANNUAL MEAN					21.2	1998
LOWEST ANNUAL MEAN					1.04	2000
HIGHEST DAILY MEAN	87	Aug 26	129	Sep 7	242	Sep 9, 1988
LOWEST DAILY MEAN	0.00	Jun 3	0.00	Many Days	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.04	May 29	0.00	May 27	0.00	Apr 27, 1985
MAXIMUM PEAK FLOW			147	Sep 6	294	Sep 9, 1988
MAXIMUM PEAK STAGE			53.52	Sep 6	54.37	Sep 9, 1988
ANNUAL RUNOFF (INCHES)	1.12		0.87		0.58	
10 PERCENT EXCEEDS	34		23		18	
50 PERCENT EXCEEDS	7.1		3.3		1.8	
90 PERCENT EXCEEDS	1.1		0.50		0.00	

e Estimated

02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964, 1966-68, 1970 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)
NOV 24...	0823	51.23	1.8	--	--	3.9	6.8	110	17.7	--	--	--	--
JAN 13...	0950	51.12	1.4	--	--	6.7	6.8	117	10.0	--	--	--	--
JUN 30...	1034	51.57	7.0	--	--	4.0	6.2	124	23.4	--	--	--	--
AUG 04...	1330	51.94	23	--	--	3.6	6.4	79	25.8	--	--	--	--
25...	1220	51.74	12	250	--	3.4	6.5	84	25.3	11.8	1.12	1.20	4.29
SEP 08...	1358	53.34	124	200	761	1.7	6.1	61	26.0	7.79	.881	1.87	3.08
08...	1400	53.34	124	--	761	1.7	6.1	61	26.0	--	--	--	--

Date	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)
NOV 24...	--	--	--	--	--	--	.90	--	.03	--	.030	--	<.01
JAN 13...	--	--	--	--	--	--	.80	--	.03	--	.030	--	<.01
JUN 30...	--	--	--	--	--	--	1.2	--	.01	--	<.020	--	<.01
AUG 04...	--	--	--	--	--	--	--	<.04	--	<.06	--	E.004	--
25...	7.80	<.2	3.96	.6	102	--	--	<.04	--	<.06	--	E.004	--
SEP 08...	5.77	<.2	3.17	.9	76	--	--	<.04	--	<.06	--	<.008	--
08...	--	--	--	--	--	<10	--	--	--	--	--	--	--

Date	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Ortho-phosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)	Strontium, water, fltrd, ug/L (01080)
NOV 24...	--	.040	.05	--	--
JAN 13...	--	.020	.03	--	--
JUN 30...	--	.020	.04	--	--
AUG 04...	E.02	--	.04	1.12	--
25...	.03	--	.07	1.13	19.9
SEP 08...	.03	--	.07	.93	13.0
08...	--	--	--	--	--

Remark codes used in this table:  
 < -- Less than  
 E -- Estimated value

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL.

LOCATION.--Lat 28° 15'23", long 82° 38'33" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.6, T.26 S., R.17 E., Pasco County, Hydrologic Unit 03100207, near left bank on upstream side of bridge on private road, 4.9 mi east of New Port Richey, and 10.5 mi upstream from mouth. Prior to May 27, 1981, at site 1.1 mi downstream.

DRAINAGE AREA.--180 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1963 to current year. March 1963 to May 1981, at site 1.1 mi downstream not equivalent due to differences in base flow characteristics of the different drainage areas.

REVISED RECORDS.--WRD FL 1966: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark). Prior to May 27, 1981, at site 1.1 mi downstream at datum 7.06 ft higher.

REMARKS.--Records good except those for estimated daily discharges, which are poor. WDR 1992 through WDR 2002 period of record gage height at present datum.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33	7.7	3.4	3.4	37	74	5.0	2.5	0.20	3.1	149	96
2	33	7.3	3.3	3.4	34	63	4.5	2.8	0.18	14	181	99
3	30	7.1	3.0	3.3	31	55	4.1	4.5	0.13	11	163	81
4	27	6.7	2.8	3.2	28	47	3.7	9.0	0.11	9.0	151	68
5	24	8.8	2.7	3.1	25	40	3.3	11	0.12	7.4	160	92
6	22	14	2.6	3.1	21	35	2.9	10	0.11	13	136	470
7	19	16	2.4	2.9	19	30	2.7	8.1	0.07	10	189	911
8	17	16	2.3	2.7	16	27	2.6	6.0	0.14	9.4	281	759
9	16	13	2.2	2.8	15	24	2.6	4.3	0.50	7.0	178	525
10	21	11	2.3	3.5	14	21	2.4	3.2	0.50	6.1	146	397
11	27	10	2.2	3.3	13	18	2.8	2.6	0.49	5.7	125	325
12	28	9.0	2.2	3.1	12	16	42	2.2	0.37	6.1	112	284
13	28	8.2	2.2	3.0	11	15	44	1.7	0.38	6.6	118	262
14	26	7.3	8.8	2.9	20	13	33	1.4	1.3	6.9	161	242
15	24	6.6	13	2.8	45	13	24	1.1	1.2	4.2	269	216
16	22	6.0	12	2.7	39	24	18	1.0	0.79	3.8	247	195
17	19	5.5	11	2.5	39	27	17	0.88	0.55	4.2	205	178
18	17	5.1	9.2	10	36	27	e11	0.76	0.40	26	172	163
19	15	6.9	8.1	14	31	24	8.5	0.65	0.31	84	146	151
20	14	8.0	7.1	13	27	21	7.5	0.79	0.32	145	127	139
21	12	7.3	6.1	11	24	18	6.4	0.64	0.23	177	114	145
22	11	6.9	5.6	9.6	20	16	5.6	0.63	0.21	165	107	140
23	9.9	6.4	5.2	8.5	17	13	4.9	0.55	0.22	137	164	132
24	8.8	5.9	5.1	7.6	30	11	4.3	0.43	0.11	123	141	124
25	8.1	5.7	4.8	7.2	120	10	3.7	0.42	0.07	215	120	115
26	7.6	5.5	4.6	7.0	123	9.1	3.3	0.37	0.07	203	136	155
27	7.9	5.1	4.3	30	125	8.2	2.9	0.32	0.10	177	144	327
28	7.7	4.7	4.1	25	105	7.3	2.7	0.28	0.21	184	139	402
29	9.1	4.2	3.9	22	86	6.7	2.3	0.23	0.23	210	123	340
30	8.7	3.7	3.7	20	---	6.2	2.1	0.23	0.40	198	112	273
31	8.0	---	3.6	23	---	5.5	---	0.22	---	168	104	---
TOTAL	560.8	235.6	153.8	259.6	1,163	725.0	279.8	78.80	10.02	2,339.5	4,820	7,806
MEAN	18.1	7.85	4.96	8.37	40.1	23.4	9.33	2.54	0.33	75.5	155	260
MAX	33	16	13	30	125	74	44	11	1.3	215	281	911
MIN	7.6	3.7	2.2	2.5	11	5.5	2.1	0.22	0.07	3.1	104	68
CFSM	0.10	0.04	0.03	0.05	0.22	0.13	0.05	0.01	0.00	0.42	0.86	1.45
IN.	0.12	0.05	0.03	0.05	0.24	0.15	0.06	0.02	0.00	0.48	1.00	1.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

MEAN	25.2	10.3	19.9	24.3	29.1	30.4	12.9	6.37	13.1	29.6	57.4	72.8
MAX	120	75.8	296	178	183	190	102	98.7	126	151	266	329
(WY)	(1996)	(1998)	(1998)	(1998)	(1998)	(1998)	(1987)	(1979)	(1974)	(1974)	(1965)	(1988)
MIN	0.81	0.24	0.41	0.39	0.79	0.17	0.00	0.00	0.00	0.00	3.06	2.84
(WY)	(2001)	(2001)	(2000)	(2001)	(1997)	(2000)	(2000)	(1985)	(2000)	(1981)	(1989)	(1999)

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL.—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	16,993.03		18,431.92			
ANNUAL MEAN	46.6		50.4		27.6	
HIGHEST ANNUAL MEAN					88.5	1998
LOWEST ANNUAL MEAN					3.01	1997
HIGHEST DAILY MEAN	444	Aug 11	911	Sep 7	1,420	Sep 9, 1988
LOWEST DAILY MEAN	0.12	Jun 2	0.07	Jun 7	0.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	0.36	May 31	0.12	Jun 2	0.00	May 27, 1981
MAXIMUM PEAK FLOW			945	Sep 7	1,480	Sep 9, 1988
MAXIMUM PEAK STAGE			23.81	Sep 7	24.67	Sep 9, 1988
ANNUAL RUNOFF (CFSM)	0.259		0.280		0.153	
ANNUAL RUNOFF (INCHES)	3.51		3.81		2.08	
10 PERCENT EXCEEDS	128		162		74	
50 PERCENT EXCEEDS	23		9.8		6.9	
90 PERCENT EXCEEDS	2.5		0.61		0.30	

e Estimated

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964-66, 1968 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfltrd uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Calcium, water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)
NOV 24...	0910	18.52	5.9	--	--	6.0	6.0	183	18.5	--	--	--	--
JAN 13...	0859	18.28	3.1	100	--	7.8	7.5	204	10.9	30.0	2.70	1.30	5.6
JUN 09...	1020	17.71	.50	50	--	4.9	7.4	424	24.4	69.0	5.10	1.40	6.2
JUN 30...	1139	17.77	.42	--	--	4.5	7.6	405	23.8	--	--	--	--
AUG 04...	1100	20.94	151	250	--	5.9	6.9	90	25.7	14.4	1.21	1.36	3.75
SEP 08...	1255	23.41	746	250	763	4.6	6.2	54	26.1	8.19	.806	1.35	2.49
SEP 08...	1257	23.41	746	--	763	4.6	6.2	54	26.1	--	--	--	--

Date	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat fltrd mg/L (70300)	Residue total at 105 deg. C, suspended, mg/L (00530)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd mg/L as N (00610)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite + nitrate water unfltrd mg/L as N (00630)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite water, unfltrd mg/L as N (00615)
NOV 24...	--	--	--	--	--	--	.90	--	.02	--	.020	--	<.01
JAN 13...	13.0	<.1	5.40	4.30	145	--	.70	--	.02	--	<.020	--	<.01
JUN 09...	11.0	.2	8.40	24.0	253	--	1.3	--	.85	--	.040	--	<.01
JUN 30...	--	--	--	--	--	--	.50	--	.10	--	.110	--	<.01
AUG 04...	6.65	<.2	4.26	1.6	119	--	--	<.04	--	E.03	--	E.004	--
SEP 08...	4.76	<.2	2.81	.8	72	--	--	<.04	--	<.06	--	<.008	--
SEP 08...	--	--	--	--	--	<10	--	--	--	--	--	--	--

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Orthophosphate, water, unfltrd mg/L as P (70507)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)	Strontium, water, fltrd, ug/L (01080)
NOV 24...	--	.030	.05	--	--
JAN 13...	--	.020	.03	--	110
JUN 09...	--	.130	.20	--	360
JUN 30...	--	.110	.12	--	--
AUG 04...	E.01	--	.06	1.14	33.9
SEP 08...	E.02	--	.06	.84	19.6
SEP 08...	--	--	--	--	--

Remark codes used in this table:

- < -- Less than
- E -- Estimated value

## 02310405 BOBHILL SPRING NEAR ARIPEKA, FL.

LOCATION.--Lat 28°26'07", long 82°38'34" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.31 T.23 S., R.17 E., Hernando County (corrected), Hydrologic Unit 03100207, 50 ft downstream from spring pool, and 1.5 mi east of Aripeka.

PERIOD OF RECORD.--January 1997 to current year (discharge measurements only). Measurements made October 1998 to September 2002 are available in files of the Geological Survey.

GAGE.--Nonrecording gage.

REMARKS.--Spring flow affected by aquifer levels. Spring flow was reduced to no flow out of spring pool in September 1997.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 3.5 ft<sup>3</sup>/s, Feb. 23, 1998; minimum measured, 0.40 ft<sup>3</sup>/s, Jan. 14, 2002.

## MISCELLANEOUS MEASUREMENTS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Discharge (ft <sup>3</sup> /s)
Apr. 13	2.3
May 11	1.7



## 02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL.

LOCATION.--Lat 28° 31'00", long 82° 34'25" (1927 North American datum), in NE $\frac{1}{4}$  sec.2, T.23 S., R.17 E., Hernando County, Hydrologic Unit 03100207, on west side of spring pool at head of Weeki Wachee River, and 12 mi southwest of Brooksville.

PERIOD OF RECORD.--1917, 1929-30 (one discharge measurement in each year); February 1931 to June 1966 (discharge measurements only); July 1966 to current year (gage heights and discharge measurements only), incomplete.

GAGE.--Nonrecording gage read once daily. Datum of gage is 8.12 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Missing record due to observer failing to read gage. Discharge measurements made about 1.0 mi downstream from head of springs.

AVERAGE DISCHARGE.--550 measurements, 172 ft<sup>3</sup>/s, 111 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 275 ft<sup>3</sup>/s, Oct. 19, 1964; maximum gage height observed, 3.86 ft, Sept. 9, 1960; minimum discharge measured, 101 ft<sup>3</sup>/s, July 24, 1956; minimum gage height observed, 0.08 ft, June 11, 12, 14, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 2.10 ft, Sept. 29, 30; minimum observed, 0.66 ft, June 24.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.02	1.74	1.46	1.18	1.11	1.35	1.28	0.89	0.70	0.73	0.95	1.04
2	2.01	1.73	1.45	1.17	1.11	1.35	1.28	0.88	0.70	0.74	0.96	1.06
3	2.00	1.72	1.44	1.16	1.10	1.35	1.28	0.96	0.69	0.75	0.97	1.05
4	1.98	1.72	1.43	1.16	1.10	1.36	1.26	0.88	0.68	0.75	0.96	1.04
5	1.96	1.71	1.42	1.15	1.10	1.36	1.26	0.86	0.68	0.75	0.98	---
6	1.94	1.71	1.40	1.14	1.10	1.36	1.25	0.86	0.68	0.75	0.98	---
7	1.93	1.71	1.40	1.14	1.10	1.35	1.24	0.85	0.68	0.74	0.98	---
8	1.94	1.69	1.39	1.14	1.08	1.35	1.24	0.84	0.68	0.75	0.98	---
9	1.92	1.68	1.38	1.15	1.08	1.34	1.23	0.82	0.70	0.75	0.99	1.90
10	1.92	1.68	1.37	1.15	1.08	1.34	1.22	0.81	0.70	0.74	0.98	2.00
11	1.92	1.66	1.36	1.13	1.09	1.34	1.21	0.80	0.69	0.74	0.98	---
12	1.92	1.65	1.35	1.12	1.09	1.34	1.30	0.80	0.68	0.74	1.00	---
13	1.91	1.64	1.34	1.11	1.10	1.33	1.24	0.79	0.68	0.73	1.00	---
14	1.90	1.63	1.32	1.10	1.10	1.32	1.19	0.79	0.72	0.73	1.04	---
15	1.90	1.62	1.31	1.10	1.14	1.34	1.16	0.78	0.72	0.73	1.06	---
16	1.88	1.60	1.31	1.10	1.12	1.36	1.14	0.77	0.70	0.74	1.05	1.98
17	1.87	1.60	1.30	1.08	1.11	1.35	---	0.77	0.70	0.74	1.04	1.98
18	1.85	1.59	1.29	1.15	1.10	1.34	1.10	---	0.68	0.78	1.04	1.96
19	1.84	1.58	1.28	1.14	1.09	1.33	1.08	---	0.68	0.82	1.04	1.96
20	1.82	1.58	1.27	1.12	1.10	1.34	1.07	---	0.68	0.84	1.04	1.93
21	1.80	1.57	1.26	1.11	1.10	1.33	1.06	0.76	0.68	0.84	1.04	1.92
22	1.80	1.54	1.25	1.10	1.10	1.34	1.04	0.76	0.68	0.84	1.04	1.90
23	1.80	1.54	1.24	1.10	1.10	1.33	1.02	0.74	0.67	0.84	1.04	1.90
24	1.80	1.53	1.23	1.09	1.12	1.31	1.02	0.74	0.66	0.86	1.04	1.90
25	1.80	1.52	1.22	1.09	1.24	1.30	0.98	0.74	0.67	0.86	1.04	1.90
26	1.80	1.52	1.22	1.09	1.32	1.30	0.96	0.73	0.68	0.86	1.04	---
27	1.80	1.51	1.20	1.09	1.34	1.30	0.95	0.73	0.70	0.86	1.04	---
28	1.80	1.50	1.20	1.08	1.35	1.30	0.92	0.73	0.68	0.88	1.04	---
29	1.81	1.49	1.20	1.08	1.35	1.30	0.91	0.72	0.69	0.91	1.04	2.10
30	1.76	1.48	1.20	1.08	---	1.28	0.90	0.72	0.71	0.91	1.04	2.10
31	1.75	---	1.19	1.08	---	1.28	---	0.70	---	0.92	1.04	---
MEAN	1.88	1.61	1.31	1.12	1.14	1.33	---	---	0.69	0.79	1.01	---
MAX	2.02	1.74	1.46	1.18	1.35	1.36	---	---	0.72	0.92	1.06	---
MIN	1.75	1.48	1.19	1.08	1.08	1.28	---	---	0.66	0.73	0.95	---

02310525 WEEKI WACHEE RIVER NEAR BROOKSVILLE, FL.

LOCATION.--Lat 28° 31'07", long 82° 34'57" (1927 North American datum), in NE 1/4 sec.2, T.23 S., R.17 E., Hernando County, Hydrologic Unit 03100207, on right bank, 0.6 mi west of intersection U.S. Highway 19 and State Highway 50, 6.2 mi upstream from mouth, and 12 mi southwest of Brooksville.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--October 1993 to current year.

GAGE.--Nonrecording gage. Datum of gage has not been determined.

REMARKS.--Records fair. Discharge measurements made about 1.0 mi downstream from head of springs. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee using maximum daily water level elevation and discharge at measuring site. See WRIR 01-4230 for computation techniques.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	238	224	208	196	203	196	185	172	164	171	179
2	254	238	223	208	196	204	195	184	171	165	172	180
3	254	238	223	208	196	204	195	184	171	---	172	180
4	253	237	223	207	196	204	194	184	171	---	173	180
5	252	236	222	207	196	204	194	184	170	---	174	181
6	252	236	221	206	195	204	193	184	170	165	174	184
7	251	236	221	205	195	204	193	183	169	165	175	194
8	250	236	221	205	194	204	193	183	169	165	175	204
9	250	235	220	205	194	203	193	182	169	165	175	210
10	250	235	220	204	193	203	192	182	169	164	175	216
11	249	234	219	204	193	202	191	181	169	164	175	221
12	249	233	219	203	193	202	192	181	168	164	175	224
13	249	233	218	203	192	202	192	180	167	164	176	228
14	248	233	218	202	192	201	191	180	167	163	176	230
15	247	232	218	202	192	201	191	180	167	163	176	233
16	247	231	217	202	192	202	191	179	167	163	177	235
17	247	231	217	201	191	202	190	179	167	163	178	236
18	246	230	216	201	191	201	190	179	167	163	178	238
19	245	230	216	201	191	201	189	178	167	164	178	239
20	245	230	215	200	191	200	189	178	167	165	179	239
21	244	229	214	200	190	200	188	178	166	166	179	240
22	243	229	214	200	189	200	188	177	166	166	179	241
23	243	228	214	199	189	199	188	176	166	167	179	241
24	242	228	213	199	190	198	188	176	166	167	179	242
25	241	227	213	198	194	198	187	176	165	168	179	242
26	241	227	212	198	198	198	187	175	165	168	179	244
27	241	226	212	198	200	198	186	175	---	169	180	246
28	240	226	211	197	202	197	186	175	---	169	180	247
29	240	225	211	197	203	197	186	174	164	170	180	249
30	240	224	210	197	---	196	186	173	164	170	180	250
31	239	---	209	196	---	196	---	173	---	171	180	---
TOTAL	7,646	6,951	6,724	6,261	5,624	6,228	5,714	5,558	---	---	5,478	6,673
MEAN	247	232	217	202	194	201	190	179	---	---	177	222
MAX	254	238	224	208	203	204	196	185	---	---	180	250
MIN	239	224	209	196	189	196	186	173	---	---	171	179

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2004, BY WATER YEAR (WY)

MEAN	167	165	159	158	156	154	149	141	135	147	160	172
MAX	247	232	217	202	211	226	221	209	194	233	247	252
(WY)	(2004)	(2004)	(2004)	(2004)	(1998)	(1998)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)
MIN	127	135	127	122	119	116	116	109	104	108	120	123
(WY)	(1998)	(2001)	(1994)	(1994)	(2001)	(2001)	(2001)	(2001)	(1994)	(1994)	(1997)	(1997)

SUMMARY STATISTICS

FOR 2003 CALENDAR YEAR

WATER YEARS 1994 - 2004

ANNUAL TOTAL	75,519	
ANNUAL MEAN	207	151
HIGHEST ANNUAL MEAN		191
LOWEST ANNUAL MEAN		124
HIGHEST DAILY MEAN	254	254
LOWEST DAILY MEAN	161	101
ANNUAL SEVEN-DAY MINIMUM	162	102
10 PERCENT EXCEEDS	252	191
50 PERCENT EXCEEDS	213	146
90 PERCENT EXCEEDS	170	117

02310545 WEEKI WACHEE RIVER NEAR WEEKI WACHEE SPRINGS, FL.

LOCATION.--Lat 28° 31' 54", long 82° 37' 36" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.32, T.22 S., R.17 E., Hernando County, Hydrologic Unit 03100207, on right bank of river bend, at private residence on Darlene Street off County Road 595, 2.3 mi south of intersection County Road 550 and 695, and 4.0 mi west of Weeki Wachee.

DRAINAGE AREA.--Indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1984-85 (discharge measurements only); November 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1.46 ft below National Geodetic Vertical datum of 1929.

REMARKS.--Records poor. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee, gage height at Weeki Wachee River, slope between Gulf of Mexico Bayport gage, and field discharge measurements. See WRIR 01-4230 for computation techniques. Discharge not filtered for tidal affect.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	273	---	241	229	---	252	221	225	217	212	223
2	283	265	---	240	255	245	227	232	222	---	213	223
3	274	253	---	242	242	247	248	244	217	---	214	223
4	270	265	---	240	249	249	240	242	218	---	214	223
5	282	264	260	251	---	254	255	231	212	---	211	253
6	280	270	277	269	242	266	241	229	213	---	212	183
7	283	270	---	272	250	261	234	227	210	206	222	285
8	278	277	---	236	269	264	232	226	209	208	209	261
9	284	301	---	240	236	249	232	223	209	200	211	257
10	278	277	---	285	239	258	232	223	204	203	208	270
11	279	258	---	257	234	254	226	217	202	206	216	272
12	279	261	265	240	230	245	230	---	207	206	215	273
13	282	279	249	238	235	245	204	221	214	202	228	267
14	270	269	253	236	216	241	251	225	220	210	219	268
15	297	---	265	242	225	235	238	225	214	212	222	245
16	275	---	243	235	250	234	239	231	220	206	224	268
17	261	---	---	227	240	253	244	231	213	204	222	270
18	270	237	---	237	249	254	245	225	212	201	221	276
19	269	263	247	259	230	260	235	220	210	208	219	286
20	269	267	265	260	242	---	235	220	208	214	219	286
21	264	259	257	269	248	241	230	219	207	209	221	284
22	273	267	259	259	247	263	232	215	204	210	217	267
23	278	266	257	255	233	258	232	216	209	207	215	269
24	277	272	268	252	227	247	228	215	204	208	219	280
25	277	276	274	232	261	237	228	214	202	208	221	285
26	279	274	267	242	246	239	219	212	---	210	224	225
27	271	262	253	230	259	232	222	209	---	212	231	307
28	265	267	247	253	262	228	225	201	---	220	222	294
29	303	286	240	234	---	233	224	215	---	221	221	292
30	278	256	235	233	---	219	219	213	216	218	224	285
31	269	---	245	246	---	208	---	222	---	214	223	---
TOTAL	8,576	---	---	7,652	---	---	6,999	---	---	---	6,769	7,900
MEAN	277	---	---	247	---	---	233	---	---	---	218	263
MAX	303	---	---	285	---	---	255	---	---	---	231	307
MIN	261	---	---	227	---	---	204	---	---	---	208	183
AC-FT	17,010	---	---	15,180	---	---	13,880	---	---	---	13,430	15,670

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	230	200	200	205	175	189	202	164	185	204	222	235
MAX	277	204	209	247	177	219	233	167	227	259	275	271
(WY)	(2004)	(2003)	(2003)	(2004)	(2002)	(2003)	(2004)	(2001)	(2003)	(2003)	(2003)	(2003)
MIN	204	197	190	173	173	173	171	161	162	170	173	194
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2001)	(2002)	(2001)	(2001)	(2001)	(2001)

SUMMARY STATISTICS

WATER YEARS 2001 - 2004

HIGHEST DAILY MEAN	334	Aug 10, 2003
LOWEST DAILY MEAN	133	May 23, 2002
ANNUAL SEVEN-DAY MINIMUM	150	May 17, 2002



## 02310545 WEEKI WACHEE RIVER NEAR WEEKI WACHEE SPRINGS, FL.—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD MARCH TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	750	339	529	346	1,340	342	1,670	374	---	---	482	329				
2	604	339	1,030	359	1,340	342	1,680	366	---	---	438	337				
3	564	351	664	357	1,990	343	1,960	367	---	---	450	325				
4	1,040	353	628	376	2,000	343	2,580	362	---	---	455	337				
5	1,020	358	1,120	379	2,300	339	1,560	364	---	---	508	380				
6	921	360	1,200	377	1,720	343	624	355	481	319	543	359				
7	1,290	349	1,360	369	776	339	555	348	477	327	513	287				
8	1,390	353	1,300	359	517	334	554	347	516	320	507	329				
9	890	348	1,210	365	462	347	536	347	529	322	502	356				
10	480	343	593	356	463	341	523	343	525	329	544	333				
11	494	333	519	351	472	340	511	347	513	316	591	335				
12	455	342	523	346	447	347	517	344	673	317	626	332				
13	1,210	338	512	350	478	346	510	341	474	323	579	331				
14	599	359	500	355	830	342	514	339	485	331	572	329				
15	559	360	730	355	902	375	463	342	990	360	5,180	334				
16	553	358	560	358	771	369	866	335	524	361	627	335				
17	579	356	958	358	1,670	369	1,890	349	587	350	589	329				
18	581	355	1,290	356	1,470	364	---	---	500	342	628	329				
19	1,080	355	1,530	359	1,520	363	---	---	506	340	697	327				
20	820	355	1,440	357	1,340	362	---	---	499	334	735	330				
21	912	354	1,340	352	1,290	351	---	---	497	342	766	331				
22	780	352	1,310	348	764	345	---	---	517	339	788	327				
23	518	347	1,240	347	502	337	---	---	519	327	725	326				
24	515	345	526	342	481	332	---	---	490	324	746	330				
25	513	344	479	335	464	334	---	---	480	324	757	318				
26	488	336	454	335	446	325	---	---	457	325	7,000	293				
27	475	348	432	336	480	345	---	---	671	327	7,000	661				
28	525	351	428	337	492	353	---	---	947	331	821	346				
29	518	346	425	342	1,040	350	---	---	1,110	337	890	336				
30	511	345	1,490	346	1,230	356	---	---	984	331	786	333				
31	---	---	1,260	345	---	---	---	---	944	333	---	---				
MONTH	1,390	333	1,530	335	2,300	325	---	---	---	---	7,000	287				

02310545 WEEKI WACHEE RIVER NEAR WEEKI WACHEE SPRINGS, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD MARCH TO SEPTEMBER 2004

DAY	MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER				
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
18	---	---	---	---	---	---	---	---	---	---	---	---	24.2	21.9	---	
19	---	---	---	---	---	---	---	---	---	---	---	---	23.9	22.1	---	
20	---	---	---	---	---	---	---	---	---	---	---	---	23.9	22.1	---	
21	---	---	---	---	---	---	---	---	---	---	---	---	23.9	22.2	---	
22	---	---	---	---	---	---	---	---	---	---	---	---	23.5	21.8	---	
23	---	---	---	---	---	---	---	---	---	---	---	---	23.6	20.7	---	
24	---	---	---	---	---	---	---	---	---	---	---	---	23.8	21.0	---	
25	---	---	---	---	---	---	---	---	---	---	---	---	23.6	21.6	---	
26	---	---	---	---	---	---	---	---	---	---	---	---	24.4	21.5	---	
27	---	---	---	---	---	---	---	---	---	---	---	---	24.5	22.0	---	
28	---	---	---	---	---	---	---	---	---	---	---	---	24.6	22.3	---	
29	---	---	---	---	---	---	---	---	---	---	---	---	24.4	22.1	---	
30	---	---	---	---	---	---	---	---	---	---	---	---	24.4	21.7	---	
31	---	---	---	---	---	---	---	---	---	---	---	---	24.4	22.5	---	
MONTH	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER					
1	23.8	22.1	25.6	23.6	27.3	24.0	26.8	24.0	---	---	26.7	24.0				
2	23.2	21.4	25.6	23.9	27.1	24.0	26.7	23.9	---	---	26.8	23.8				
3	23.4	21.6	24.7	23.3	26.6	23.8	27.1	23.8	---	---	27.6	23.7				
4	23.5	21.7	24.5	22.7	26.5	23.8	26.5	23.9	---	---	27.6	23.8				
5	23.3	21.6	24.6	22.3	26.2	23.6	26.7	23.8	27.4	26.0	26.3	24.6				
6	23.6	21.2	24.8	22.4	26.7	23.6	27.0	23.8	27.5	24.2	24.9	24.1				
7	23.6	21.9	25.2	22.8	26.6	23.5	26.9	23.9	27.1	23.8	25.5	24.1				
8	23.8	22.5	25.3	22.7	26.4	23.5	26.7	23.7	27.4	23.6	26.8	24.6				
9	24.6	22.9	25.3	22.7	26.8	23.5	28.3	23.5	28.6	23.7	26.4	24.4				
10	24.8	22.6	25.0	23.0	28.0	23.6	29.0	23.7	28.3	23.8	26.4	24.2				
11	24.2	22.1	25.2	23.4	28.2	23.6	28.3	23.7	28.3	23.8	26.7	24.3				
12	23.4	22.7	25.7	23.3	28.4	23.7	27.6	23.6	26.6	23.8	26.3	24.1				
13	23.6	22.3	26.1	23.3	28.1	24.0	27.3	23.6	25.8	23.9	26.0	24.0				
14	22.9	21.2	25.9	23.6	26.6	24.0	27.5	24.0	25.4	23.6	25.4	24.1				
15	23.5	20.3	25.5	23.5	26.7	23.9	26.9	24.0	24.8	23.6	25.1	24.0				
16	23.6	20.8	25.1	23.7	26.9	24.0	26.6	23.8	26.0	23.6	26.0	24.3				
17	23.9	21.5	25.5	23.4	26.7	24.0	26.4	24.0	26.4	23.8	26.4	24.1				
18	24.2	21.9	25.7	23.2	26.5	23.7	---	---	26.7	23.7	27.4	24.0				
19	24.2	22.1	25.5	23.3	27.1	24.0	---	---	27.1	23.8	27.6	23.5				
20	24.3	22.3	25.9	23.4	27.4	24.0	---	---	27.5	24.0	25.9	23.3				
21	24.1	22.5	25.9	23.3	27.3	24.0	---	---	27.6	23.9	25.2	23.4				
22	24.6	22.4	26.0	23.3	27.2	24.0	---	---	27.3	23.6	26.3	23.4				
23	25.0	22.6	26.1	23.3	27.4	23.7	---	---	27.7	23.6	26.3	23.3				
24	25.0	22.7	26.1	23.3	27.5	23.8	---	---	28.2	23.6	25.3	23.2				
25	25.2	22.8	26.6	23.3	27.3	23.7	---	---	27.6	23.6	24.6	23.4				
26	25.1	23.2	26.8	23.5	28.5	23.8	---	---	26.7	23.6	24.5	23.7				
27	24.9	23.4	27.5	23.5	28.3	23.6	---	---	26.6	23.8	25.4	23.9				
28	25.3	22.1	28.0	23.4	27.2	23.7	---	---	26.2	23.9	25.9	24.2				
29	24.3	23.1	27.8	23.5	27.2	23.5	---	---	26.5	24.0	25.7	23.9				
30	25.3	23.4	27.3	23.6	26.9	23.6	---	---	26.1	24.1	25.8	23.8				
31	---	---	27.2	23.9	---	---	---	---	26.6	23.9	---	---				
MONTH	25.3	20.3	28.0	22.3	28.5	23.5	---	---	---	---	27.6	23.2				

## 02310600 GULF OF MEXICO NEAR BAYPORT, FL.

LOCATION.--Lat 28° 32'00", long 82° 39'01" (1927 North American datum), on line between secs. 25 and 36, T.22 S., R.16 E., Hernando County, Hydrologic Unit 03100207, at mouth of Weeki Wachee River, on Florida Department of Transportation pier at terminus of County Road 550, and 1.1 mi southwest of Bayport.

## GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--January 1964 to September 1965 (elevations only); October 1965 to September 1976 (maximum and minimum gage heights only); October 1976 to September 1989 (maximum and minimum elevations only); January 1997 to September 2003 (maximum and minimum gage heights only); October 2003 to September 2004 (tidal high-high and low-low only).

GAGE.--Water-stage recorder. Datum of gage is 9.35 ft below National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD.

REMARKS.--Gage records water levels and tidal fluctuations in Gulf of Mexico. Interruptions in record were due to days in which a tidal high-high or low-low did not occur, or there was an equipment malfunction. Maximum and minimum EXTREMES FOR PERIOD OF RECORD represent gage height tidal high-high and low-low. The extremes for periods published previously as maximum and minimum gage heights are equivalent to tidal high-high and low-low.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.27 ft, Aug. 31, 1985 (result of storm surge); minimum, 2.35 ft below NGVD, Feb. 12, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.00 ft, Sept. 27; minimum, 2.03 ft below NGVD, Jan. 7.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW		HIGHLIGHT LOWLOW	
	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH						
1	2.54	-0.78	1.95	-1.12	1.07	-0.94	1.62	-1.00	1.55	-1.36	2.03	-1.29
2	2.24	-0.74	1.50	-0.74	0.69	-1.25	1.90	-1.26	1.69	-1.50	1.89	-1.39
3	1.98	-0.61	2.42	-0.98	1.82	-1.06	2.09	-1.33	1.92	-1.59	2.17	-1.56
4	2.60	-0.42	2.67	-0.04	2.52	-0.77	2.58	-1.32	1.21	-1.74	1.93	-1.34
5	2.26	-0.71	2.58	-0.19	2.30	-0.81	1.80	-1.30	2.22	-1.60	2.53	-1.32
6	2.63	-0.49	2.50	-0.51	1.20	-1.15	2.64	-1.36	2.60	-1.44	2.88	-1.13
7	3.18	-0.44	2.70	-0.70	1.13	-1.66	1.20	-2.03	3.26	-0.82	2.46	-1.19
8	2.84	-0.30	2.77	-0.97	2.06	-1.46	1.33	-1.76	1.30	-1.99	2.60	-1.35
9	2.77	-0.43	2.39	-1.27	2.30	-1.47	2.49	-1.19	1.66	-1.55	2.23	-1.25
10	2.66	-0.59	0.98	-1.68	3.08	-0.71	2.79	-1.53	1.94	-1.30	1.72	-0.96
11	2.82	-0.66	1.88	-1.24	2.94	-1.01	0.87	-1.88	2.04	-0.93	2.04	-1.72
12	2.92	-0.47	2.59	-0.86	2.08	-1.33	1.46	-1.32	2.14	-1.18	2.28	-1.48
13	2.64	-0.68	2.96	-0.72	1.99	-1.14	1.80	-1.08	1.65	-1.11	2.24	-1.33
14	2.74	-0.50	1.47	-1.30	2.76	-0.42	2.02	-0.86	2.21	-1.28	2.14	-1.47
15	3.06	-1.10	2.40	-0.40	1.18	-1.38	2.01	-0.43	2.28	-1.03	2.16	-1.42
16	2.04	-0.86	2.40	-0.46	1.77	-0.74	1.97	-0.98	1.54	-1.73	2.65	-0.87
17	2.24	-0.37	1.94	-0.64	3.20	-0.17	2.79	-1.39	1.43	-1.72	2.25	-0.99
18	2.32	-0.36	2.87	0.03	2.12	-0.97	2.90	-0.60	0.29	-1.83	1.84	-1.44
19	1.75	-0.28	3.64	0.86	2.13	-0.40	2.57	-1.35	1.38	-1.82	2.49	-1.30
20	1.97	-0.87	2.14	-0.82	1.43	-1.11	1.04	-1.71	2.58	-1.45	2.26	-1.22
21	2.41	-0.47	2.54	-0.83	1.92	-1.83	2.12	-1.74	2.97	-1.23	2.51	-1.04
22	2.54	-0.44	2.16	-1.21	1.02	-1.78	2.65	-1.60	2.84	-1.12	2.56	-1.20
23	2.81	-0.41	2.91	-1.24	2.52	-1.59	2.64	-1.42	2.20	-1.16	1.22	-1.65
24	2.77	-0.70	3.35	-1.18	3.30	-1.37	2.37	-1.49	2.76	0.17	1.58	-1.80
25	2.69	-1.04	3.50	-1.34	2.77	-1.55	2.42	-1.11	2.80	-0.98	1.91	-0.38
26	2.95	-1.09	3.19	-1.28	2.06	-1.65	2.31	-0.67	2.16	0.01	2.00	-1.46
27	3.24	-1.01	2.92	-1.08	1.64	-1.49	2.16	-0.03	0.76	-0.97	2.04	-1.34
28	3.63	-0.69	2.96	-0.90	1.65	-0.98	0.67	-1.16	0.98	-1.89	1.93	-1.17
29	3.38	-0.99	1.34	-1.63	1.94	-0.66	1.69	-1.60	1.33	-1.85	1.50	-1.00
30	2.46	-1.24	0.90	-1.24	2.05	-0.32	1.58	-0.94	---	---	1.91	-1.28
31	1.62	-1.26	---	---	1.72	-0.54	0.75	-1.29	---	---	3.18	-0.71
MAX	3.63	-0.28	3.64	0.86	3.30	-0.17	2.90	-0.03	3.26	0.17	3.18	-0.38
MIN	1.62	-1.26	0.90	-1.68	0.69	-1.83	0.67	-2.03	0.29	-1.99	1.22	-1.80

02310600 GULF OF MEXICO NEAR BAYPORT, FL.—Continued

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW		HIGHHIGH LOWLOW	
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.04	-1.06	2.26	-0.82	3.01	-1.02	3.04	-1.21	3.30	-0.68	2.32	-0.67
2	2.64	-1.24	2.88	-0.52	3.06	-1.06	3.14	-1.26	3.06	-0.60	2.10	-0.82
3	1.65	-1.06	2.74	-1.03	3.29	0.36	3.24	0.17	2.88	0.08	1.87	-0.84
4	2.61	-0.69	2.11	-1.48	3.23	-1.36	3.19	-1.18	2.46	-0.54	1.30	-1.00
5	2.58	-1.10	2.54	-1.47	3.35	-1.33	2.84	-1.06	2.26	-0.33	-0.08	-1.79
6	2.58	-1.24	2.88	-0.44	3.06	-1.11	2.38	-0.95	2.53	-0.34	3.88	---
7	3.00	-1.14	2.95	-1.46	2.64	-1.14	2.17	-0.86	1.54	-0.42	---	0.38
8	3.41	0.26	3.12	-1.42	2.46	-0.98	1.93	-0.48	2.11	-0.40	2.27	-0.38
9	2.99	-1.06	2.89	-1.26	2.25	-0.88	1.58	-0.34	1.80	-0.64	2.07	-0.75
10	2.54	-1.10	2.53	-1.32	2.02	-0.45	1.78	-0.72	1.69	-0.81	1.91	-1.03
11	3.12	-1.30	2.03	-1.00	1.95	-0.14	2.04	-0.66	2.12	-0.80	2.25	-0.98
12	2.78	-0.48	2.09	-0.95	2.24	-0.54	2.13	-0.91	2.88	-0.32	2.40	-0.94
13	3.05	-0.67	1.70	-0.70	2.29	-0.67	2.48	-0.64	2.50	-1.06	2.41	-0.75
14	1.22	-0.57	1.71	-0.90	2.66	-0.90	2.48	-0.77	2.69	-0.94	2.56	-0.49
15	0.57	-1.58	2.16	-0.78	2.70	-0.93	2.62	-0.86	2.78	-0.94	4.30	0.88
16	1.34	-1.46	2.02	-1.22	2.58	-1.12	2.92	-0.81	2.52	-0.95	3.13	0.32
17	1.70	-1.28	2.31	-1.30	2.77	-1.16	3.35	-0.57	2.52	-0.84	2.75	-0.27
18	2.00	-1.32	2.53	-1.22	2.71	-1.09	3.61	-0.43	2.50	-0.74	2.74	-0.83
19	2.39	-1.17	2.82	-1.04	2.80	-0.92	3.08	0.64	2.34	-0.40	2.60	-0.96
20	2.39	-1.29	2.87	-1.10	2.85	0.31	2.46	-0.63	2.18	-0.53	1.80	-1.07
21	2.72	-1.16	2.77	0.06	2.85	-0.96	2.25	-0.83	2.26	-0.59	1.53	-1.30
22	2.56	-0.13	2.98	-1.08	2.66	-0.65	1.91	-0.82	2.38	-0.68	2.17	-0.82
23	2.32	-1.34	2.77	-0.92	2.20	-0.84	1.85	-0.71	2.39	-0.72	2.41	-0.95
24	2.32	-1.38	2.45	-0.96	1.88	-0.79	2.05	-0.51	2.37	-0.84	2.32	-1.00
25	2.33	-1.35	2.15	-0.98	1.83	-0.64	2.19	-0.61	2.06	-1.15	2.50	-0.83
26	2.15	-1.08	1.81	-0.95	1.97	-0.53	2.13	-0.86	2.52	-1.02	0.19	-0.90
27	1.30	-0.34	1.62	-0.58	2.25	-0.48	2.38	-0.94	2.72	-1.10	5.00	0.56
28	1.40	-1.28	2.07	-0.15	2.22	-0.98	2.40	-1.15	2.77	-0.92	2.67	-0.36
29	1.49	-1.52	2.03	-0.54	2.53	-1.08	2.59	-1.17	2.98	-0.68	2.54	-0.74
30	2.01	-1.18	2.60	-0.62	2.81	-1.09	3.02	-1.07	2.99	-0.77	2.62	-0.82
31	---	---	2.71	-0.90	---	---	3.29	-0.99	2.76	-0.72	---	---
MAX	3.41	0.26	3.12	0.06	3.35	0.36	3.61	0.64	3.30	0.08	---	---
MIN	0.57	-1.58	1.62	-1.48	1.83	-1.36	1.58	-1.26	1.54	-1.15	---	---



## 02310600 GULF OF MEXICO NEAR BAYPORT, FL.

PERIOD OF RECORD.--October 2003 to September 2004

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors.

REMARKS.--Temperature and specific conductance records are good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 35,500 microsiemens, Dec. 17, 2003; minimum, 2,360 microsiemens, Sept. 8, 2004.

TEMPERATURE.--Maximum, 32.7° C, June 26, 2004; minimum, 10.3° C, Jan. 11, 2004.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 35,500 microsiemens, Dec. 17; minimum, 2,360 microsiemens, Sept. 8.

TEMPERATURE.--Maximum, 32.7° C, June 26; minimum, 10.3° C, Jan. 11.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	15,500	5,750	28,400	8,080	30,100	9,180	32,100	8,930	28,600	5,990	29,900	5,110
2	17,800	5,500	27,800	8,340	28,300	8,590	33,000	8,950	28,300	6,920	26,800	6,360
3	22,100	6,260	32,500	9,410	30,300	7,990	31,100	8,770	27,500	6,510	28,600	6,080
4	24,500	7,720	33,400	12,900	31,400	9,550	33,300	8,480	29,600	6,780	28,800	6,940
5	26,000	7,050	28,200	11,500	31,300	9,800	33,500	9,930	29,600	7,470	27,200	7,830
6	22,900	8,130	27,400	10,200	31,200	6,950	34,300	8,890	29,200	8,450	30,400	8,470
7	21,300	7,750	25,400	10,500	31,700	7,470	23,300	7,750	28,700	7,900	26,300	7,090
8	19,800	8,330	25,000	9,350	32,200	7,160	31,000	7,280	19,900	5,140	22,300	6,930
9	20,500	7,690	25,900	6,740	34,200	7,800	35,100	9,880	24,200	6,240	21,100	6,020
10	20,600	7,610	25,800	6,150	34,800	12,600	34,000	8,000	26,500	7,490	16,000	6,080
11	23,100	8,840	29,700	7,110	30,700	11,800	35,000	7,380	28,100	8,050	25,200	5,050
12	24,000	8,810	29,400	9,320	27,600	8,500	33,200	8,580	31,100	8,470	28,300	5,940
13	22,300	8,650	28,700	10,800	32,200	8,780	31,500	9,590	27,800	6,970	25,400	6,740
14	23,000	8,660	28,300	7,440	33,000	11,400	29,900	9,300	29,500	7,140	23,400	6,680
15	21,100	7,340	28,400	11,000	26,200	9,510	27,800	8,690	25,800	7,910	25,800	6,970
16	18,700	7,430	28,800	9,860	33,500	9,690	29,200	8,540	19,200	6,940	24,800	7,050
17	25,000	7,970	29,100	9,100	35,500	10,800	31,500	7,740	26,100	5,670	22,700	6,800
18	25,900	8,220	32,500	14,600	31,600	10,800	30,400	10,800	27,400	4,700	21,000	6,280
19	29,600	8,570	32,700	15,700	33,600	6,410	28,800	9,890	28,300	5,130	20,600	6,650
20	30,600	9,100	29,000	7,750	32,000	7,700	23,600	7,770	28,500	7,900	18,700	6,190
21	30,300	11,300	28,400	9,110	30,800	7,370	27,200	7,360	27,100	9,290	21,600	7,280
22	27,400	10,100	26,600	8,910	30,800	7,640	30,000	7,840	28,300	8,440	19,900	6,120
23	25,500	9,130	26,000	9,040	32,300	8,190	31,400	7,420	22,900	7,900	16,500	4,760
24	24,800	8,960	26,000	10,200	33,500	10,600	31,900	7,670	23,600	5,550	23,600	4,440
25	24,300	9,330	26,900	9,860	31,600	8,980	25,700	9,340	19,700	4,320	28,200	5,900
26	23,800	9,890	23,600	9,230	27,500	7,820	28,900	9,540	21,300	4,970	29,100	5,960
27	24,500	10,300	26,600	9,470	28,100	7,820	26,800	8,640	6,860	4,050	27,100	6,870
28	29,500	11,000	28,000	9,610	32,200	8,470	14,000	6,600	20,700	4,900	26,800	7,830
29	25,800	10,000	17,000	7,190	34,000	10,800	27,600	7,280	23,400	4,840	25,600	7,630
30	21,800	8,500	29,100	7,360	34,100	11,200	30,100	6,110	---	---	27,100	7,120
31	23,200	7,960	---	---	33,000	10,300	28,500	7,020	---	---	29,600	7,390
MONTH	30,600	5,500	33,400	6,150	35,500	6,410	35,100	6,110	31,100	4,050	30,400	4,440





02310650 CHASSAHOWITZKA RIVER NEAR HOMOSASSA, FL.

LOCATION.--Lat 28° 42'54", long 82° 34'35" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.26, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on left bank just downstream from head of springs, 4.9 mi upstream from mouth, and 5.1 mi southeast of Homosassa.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1964 to September 1965 (gage-heights and periodic discharge measurements only); October 1965 to September 1977 (periodic discharge measurements and maximum and minimum gage heights only); October 1977 to September 1978, July 1985 to December 1985, October 1988 (periodic discharge measurements and maximum and minimum elevations only); February 1997 to September 1998 (discharge, gage-heights and periodic discharge measurements), incomplete; October 1998 to current year (incomplete).

GAGE.--Water-stage recorder. Datum of gage is 5.10 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations NGVD. Prior to 1978 at datum 10.00 ft below National Geodetic Vertical Datum of 1929 (gage readings reduced to NGVD).

REMARKS.--Records poor. Missing data is not estimated because it is affected by tide. Discharge measurements made about 200 ft downstream from head of springs; measurements made prior to November 1997 include flow from Crab Creek. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee, using maximum daily water level elevation, gage heights in the spring run, rate of change in stage, and field measurements. See WRIR 01-4230 for computation techniques. Discharge was not filtered for tidal effect.

EXTREMES FOR PERIOD JANUARY 1964 TO OCTOBER 1988.--Maximum discharge measured, 208 ft<sup>3</sup>/s, Jan. 8, 1973; maximum gage height, 5.16 ft, Sept. 10, 1964; minimum discharge measured, 25 ft<sup>3</sup>/s, Aug. 16, 1985; minimum gage height, 0.05 ft below NGVD, Aug. 7, 8, 1977.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	80	76	72	68	66	75	67	61	61	60	---
2	82	78	80	71	69	74	66	64	61	61	63	---
3	79	75	70	73	74	74	74	66	61	60	61	---
4	77	74	71	71	73	72	67	68	62	62	65	---
5	83	76	77	72	70	69	68	66	59	62	64	69
6	79	77	83	80	65	71	67	65	62	63	65	25
7	78	76	74	75	71	71	64	64	62	62	72	78
8	78	78	76	71	73	71	64	63	62	66	65	73
9	79	81	72	68	69	69	67	64	63	63	67	74
10	78	80	62	76	69	74	68	65	63	65	67	75
11	76	75	83	74	68	71	63	67	64	66	66	75
12	78	73	75	71	67	69	66	64	66	63	57	74
13	78	75	73	69	72	70	55	69	62	63	69	75
14	74	79	67	69	62	68	81	71	63	62	64	75
15	84	71	79	70	66	68	72	66	62	61	65	61
16	78	74	70	71	76	68	70	66	63	60	66	75
17	74	75	77	64	74	74	69	63	62	56	66	75
18	78	69	67	68	72	73	69	66	62	55	65	79
19	81	75	76	74	69	71	67	64	61	---	65	81
20	80	81	79	77	68	70	68	63	61	---	66	81
21	76	74	76	72	67	68	65	64	60	---	68	80
22	77	76	75	72	67	72	67	62	58	---	66	76
23	79	73	71	70	67	73	68	64	66	---	65	79
24	76	73	75	70	61	71	67	64	---	---	68	81
25	77	78	74	67	70	70	66	64	---	---	70	78
26	76	75	74	65	69	70	64	65	---	---	66	55
27	71	72	73	69	76	68	72	64	---	---	66	78
28	66	73	73	77	72	68	68	61	---	63	65	82
29	87	82	70	68	70	72	68	68	62	64	64	78
30	78	76	70	70	---	64	67	65	61	63	---	78
31	78	---	74	76	---	64	---	63	---	62	66	---
TOTAL	2,414	2,274	2,292	2,212	2,014	2,173	2,032	2,015	---	---	---	---
MEAN	77.9	75.8	73.9	71.4	69.4	70.1	67.7	65.0	---	---	---	---
MAX	87	82	83	80	76	74	81	71	---	---	---	---
MIN	66	69	62	64	61	64	55	61	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

	63.2	61.9	66.3	63.0	58.1	57.7	56.7	57.2	56.4	65.6	67.5	69.4
MEAN	63.2	61.9	66.3	63.0	58.1	57.7	56.7	57.2	56.4	65.6	67.5	69.4
MAX	77.9	75.8	73.9	71.4	69.4	70.1	67.7	65.0	67.1	74.3	77.4	78.5
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(1998)	(2003)	(2003)	(2003)
MIN	44.3	48.4	53.2	51.8	50.1	46.5	47.6	45.6	45.7	56.7	55.8	61.4
(WY)	(1998)	(1998)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(2001)	(1999)	(1999)	(2002)

SUMMARY STATISTICS

WATER YEARS 1998 - 2004

HIGHEST DAILY MEAN	87	Oct 29, 2003
LOWEST DAILY MEAN	25	Sep 6, 2004
ANNUAL SEVEN-DAY MINIMUM	39	Oct 21, 1997

## 02310650 CHASSAHOWITZKA RIVER NEAR HOMOSASSA, FL.

PERIOD OF RECORD.--June to September 2004.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors.

REMARKS.--Temperature and specific conductance records are poor.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Maximum, 6,280 microsiemens, July 21; minimum, 1,060 microsiemens, Aug. 3.

TEMPERATURE.--Maximum, 25.3° C, July 10, 17, 31; minimum, 23.1° C, June 31, Aug. 14, 16.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD JUNE TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	5,610	1,360	5,560	1,280	5,190	1,360
2	---	---	---	---	---	---	5,390	1,340	5,700	1,270	---	---
3	---	---	---	---	---	---	5,350	1,360	5,670	1,060	---	---
4	---	---	---	---	---	---	5,390	1,340	5,880	1,230	---	---
5	---	---	---	---	---	---	5,390	1,330	5,730	1,290	---	---
6	---	---	---	---	---	---	5,470	1,360	5,480	1,250	---	---
7	---	---	---	---	---	---	5,390	1,290	4,570	1,350	---	---
8	---	---	---	---	---	---	5,280	1,330	5,570	1,350	---	---
9	---	---	---	---	---	---	4,770	1,350	5,020	1,250	---	---
10	---	---	---	---	---	---	5,050	1,350	4,190	1,240	---	---
11	---	---	---	---	---	---	4,970	1,320	5,220	1,240	---	---
12	---	---	---	---	---	---	5,370	1,350	5,140	1,270	---	---
13	---	---	---	---	---	---	5,450	1,370	5,310	1,200	---	---
14	---	---	---	---	---	---	5,340	1,320	5,270	1,140	---	---
15	---	---	---	---	---	---	5,510	1,340	5,540	1,240	---	---
16	---	---	---	---	---	---	5,720	1,390	5,540	1,310	---	---
17	---	---	---	---	---	---	5,920	1,470	5,520	1,350	---	---
18	---	---	---	---	---	---	5,940	1,490	5,450	1,330	---	---
19	---	---	---	---	---	---	---	---	5,350	1,360	---	---
20	---	---	---	---	---	---	---	---	5,270	1,360	---	---
21	---	---	---	---	---	---	6,280	1,440	5,180	1,330	---	---
22	---	---	---	---	---	---	---	---	5,240	1,330	---	---
23	---	---	---	---	---	---	---	---	5,200	1,320	---	---
24	---	---	---	---	---	---	---	---	5,090	1,280	---	---
25	---	---	---	---	---	---	---	---	5,090	1,330	---	---
26	---	---	---	---	---	---	---	---	5,150	1,300	---	---
27	---	---	---	---	---	---	5,640	1,270	5,220	1,360	---	---
28	---	---	---	---	5,580	1,370	5,590	1,200	5,050	1,370	---	---
29	---	---	---	---	5,500	1,390	5,720	1,280	5,290	1,390	---	---
30	---	---	---	---	5,470	1,370	5,630	1,310	5,440	1,340	---	---
31	---	---	---	---	---	---	5,420	1,310	5,450	1,380	---	---
MONTH	---	---	---	---	---	---	---	---	5,880	1,060	---	---

TEMPERATURE, WATER, DEGREES CELSIUS  
 PERIOD JUNE TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	24.6	23.2	24.9	23.3	24.7	23.2
2	---	---	---	---	---	---	24.5	23.4	24.6	23.3	---	---
3	---	---	---	---	---	---	24.9	23.4	24.8	23.3	---	---
4	---	---	---	---	---	---	24.9	23.4	24.5	23.3	---	---
5	---	---	---	---	---	---	24.6	23.4	25.0	23.3	---	---
6	---	---	---	---	---	---	25.0	23.4	24.9	23.3	---	---
7	---	---	---	---	---	---	24.6	23.5	24.7	23.5	---	---
8	---	---	---	---	---	---	24.7	23.4	24.5	23.3	---	---
9	---	---	---	---	---	---	25.2	23.3	24.6	23.4	---	---
10	---	---	---	---	---	---	25.3	23.4	24.9	23.3	---	---
11	---	---	---	---	---	---	25.1	23.4	25.0	23.3	---	---
12	---	---	---	---	---	---	25.0	23.2	24.3	23.3	---	---
13	---	---	---	---	---	---	24.5	23.3	24.1	23.3	---	---
14	---	---	---	---	---	---	24.9	23.3	23.6	23.1	---	---
15	---	---	---	---	---	---	24.6	23.3	23.7	23.2	---	---
16	---	---	---	---	---	---	24.7	23.3	24.5	23.1	---	---
17	---	---	---	---	---	---	25.3	23.3	24.8	23.3	---	---
18	---	---	---	---	---	---	24.4	23.3	24.8	23.3	---	---
19	---	---	---	---	---	---	---	---	25.0	23.2	---	---
20	---	---	---	---	---	---	---	---	25.0	23.3	---	---
21	---	---	---	---	---	---	24.9	23.7	24.5	23.3	---	---
22	---	---	---	---	---	---	---	---	24.6	23.2	---	---
23	---	---	---	---	---	---	---	---	24.5	23.2	---	---
24	---	---	---	---	---	---	---	---	24.8	23.3	---	---
25	---	---	---	---	---	---	---	---	24.3	23.3	---	---
26	---	---	---	---	---	---	---	---	24.4	23.2	---	---
27	---	---	---	---	---	---	24.5	23.3	24.6	23.3	---	---
28	---	---	---	---	24.4	23.4	24.2	23.3	24.4	23.2	---	---
29	---	---	---	---	24.5	23.2	24.8	23.3	24.9	23.2	---	---
30	---	---	---	---	24.6	23.1	24.6	23.3	24.4	23.2	---	---
31	---	---	---	---	---	---	25.3	23.3	24.7	23.2	---	---
MONTH	---	---	---	---	---	---	---	---	25.0	23.1	---	---

## 02310663 CHASSAHOWITZKA RIVER NEAR CHASSSAHOWITZKA, FL.

LOCATION.--Lat 28° 42'54", long 82° 36'23" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> secs.28, T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on private dock, on right edge of water, 0.3 mi upstream from confluence with Johnson Creek, and 2.0 mi west of Chassahowitzka.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to September 1998 (gage-heights only); May 2003 to current year.

GAGE.--Water-stage and velocity recorder. Datum of gage has not been determined.

REMARKS.--Records poor. Instantaneous discharge computed from index-velocity gage height multiple linear regression and gage height to area quadratic equation relation. Discharge is not filtered for tidal cycle. Previously published as 274254082362300 Chassahowitzka River above Johnson Creek near Chassahowitzka.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD MAY TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	55	44	---	232
2	---	---	---	---	---	---	---	211	181	146	---	---
3	---	---	---	---	---	---	---	139	201	239	---	---
4	---	---	---	---	---	---	---	170	287	275	---	---
5	---	---	---	---	---	---	---	108	284	320	---	---
6	---	---	---	---	---	---	---	135	263	296	---	---
7	---	---	---	---	---	---	---	190	152	296	---	---
8	---	---	---	---	---	---	---	209	327	317	---	---
9	---	---	---	---	---	---	---	258	338	344	43	---
10	---	---	---	---	---	---	---	230	341	221	32	---
11	---	---	---	---	---	---	---	---	275	113	---	---
12	---	---	---	---	---	---	---	---	182	69	---	---
13	---	---	---	---	---	---	---	321	195	39	---	193
14	---	---	---	---	---	---	---	201	201	---	---	173
15	---	---	---	---	---	---	---	145	206	---	280	181
16	---	---	---	---	---	---	---	169	218	---	201	312
17	---	---	---	---	---	---	---	158	261	167	227	412
18	---	---	---	---	---	---	---	123	199	230	310	307
19	---	---	---	---	---	---	---	210	310	294	297	---
20	---	---	---	---	---	---	---	335	131	333	375	---
21	---	---	---	---	---	---	---	284	---	331	435	348
22	---	---	---	---	---	---	---	139	---	406	439	214
23	---	---	---	---	---	---	---	312	455	277	---	118
24	---	---	---	---	---	---	---	325	442	332	---	101
25	---	---	---	---	---	---	---	337	387	311	99	75
26	---	---	---	---	---	---	---	313	342	250	70	92
27	---	---	---	---	---	---	---	265	195	---	-31	---
28	---	---	---	---	---	---	---	312	-123	---	70	---
29	---	---	---	---	---	---	---	200	---	---	48	136
30	---	---	---	---	---	---	---	125	---	---	113	220
31	---	---	---	---	---	---	---	80	---	---	169	---

02310663 CHASSAHOWITZKA RIVER NEAR CHASSAHOWITZKA, FL.—Continued

DISCHARGE, CUBIC FEET PER SECOND  
 WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	333	369	---	---	227	205	225	131	159	105	285
2	---	---	---	---	---	247	---	122	120	157	148	264
3	410	389	322	210	---	---	---	174	76	99	208	300
4	300	296	---	199	---	184	111	---	117	159	242	373
5	---	275	---	---	209	123	---	183	73	181	224	299
6	---	194	---	250	---	---	142	131	140	201	221	---
7	87	184	255	---	167	169	---	---	227	219	446	---
8	266	215	---	188	---	169	15	---	265	314	357	670
9	252	---	226	---	210	---	159	177	262	306	404	500
10	---	---	---	---	---	303	---	200	261	---	408	474
11	---	237	---	---	179	---	---	332	290	---	322	374
12	207	222	---	---	228	---	223	310	291	---	61	251
13	218	---	---	---	---	---	---	375	---	---	396	---
14	175	342	---	---	231	227	478	---	---	221	---	283
15	---	265	---	---	---	192	---	---	---	147	225	-186
16	---	326	---	---	313	178	---	329	---	99	229	206
17	306	361	---	---	---	215	308	157	---	-30	204	207
18	---	---	---	---	---	---	---	271	---	---	184	253
19	---	258	191	---	---	163	174	163	172	---	217	340
20	389	362	313	---	---	172	148	160	121	283	247	---
21	247	---	---	---	109	---	---	---	110	225	335	---
22	---	225	---	---	94	188	201	---	139	264	254	297
23	186	---	203	---	---	---	202	168	264	257	253	344
24	145	---	136	---	137	320	189	199	296	305	322	375
25	197	228	270	---	243	---	---	225	269	302	409	---
26	---	---	---	---	245	306	142	265	300	352	---	20
27	84	252	266	---	406	287	421	242	312	319	---	-1,270
28	-85	---	---	---	363	---	414	172	342	254	---	344
29	---	---	233	---	---	367	---	292	230	265	133	---
30	---	365	---	---	---	180	280	215	220	242	149	---
31	350	---	---	---	---	---	---	166	---	85	195	---

SUMMARY STATISTICS

WATER YEARS 2003 - 2004

HIGHEST DAILY MEAN	670	Sep 8, 2004
LOWEST DAILY MEAN	-1,270	Sep 27, 2004
ANNUAL SEVEN-DAY MINIMUM	77	Aug 25, 2003



WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2003 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature probe.

REMARKS.--Temperature records good, and specific conductance records poor.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 25,900 microsiemens, Dec. 24, 2003; minimum, 2,300 microsiemens, June 22, 2003.

TEMPERATURE.--Maximum, 30.8°C, July 31, 2004; minimum, 13.9°C, Jan. 11, 12, 2004.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 25,900 microsiemens, Dec. 24; minimum, 2,470 microsiemens, Sept. 6.

TEMPERATURE.--Maximum, 30.8°C, July 31; minimum, 13.9°C, Jan. 11, 12.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
 PERIOD MAY TO SEPTEMBER 2003

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	4,780	3,840	4,740	4,120	3,790	3,360
2	---	---	---	---	---	---	4,440	3,940	4,680	4,060	4,010	3,200
3	---	---	---	---	---	---	4,270	3,960	4,550	3,420	---	---
4	---	---	---	---	---	---	4,620	4,030	4,590	4,210	---	---
5	---	---	---	---	---	---	4,270	4,040	4,520	4,090	4,400	3,100
6	---	---	---	---	---	---	4,510	3,900	4,400	4,080	---	---
7	---	---	---	---	---	---	4,370	3,950	4,540	4,170	---	---
8	---	---	---	---	---	---	4,510	3,900	4,890	3,440	---	---
9	---	---	---	---	---	---	4,580	3,800	4,990	3,460	---	---
10	---	---	---	---	---	---	4,820	3,940	4,720	3,060	4,970	3,330
11	---	---	---	---	6,910	4,310	6,120	3,870	3,940	2,530	4,760	3,070
12	---	---	---	---	10,100	4,370	6,370	3,940	3,900	2,850	5,150	3,250
13	---	---	---	---	13,400	4,240	7,490	3,840	3,850	3,300	5,060	3,450
14	---	---	---	---	12,600	4,210	7,630	3,790	4,370	3,460	4,990	3,950
15	---	---	---	---	13,600	4,210	6,800	3,800	5,010	3,740	4,720	3,720
16	---	---	---	---	11,800	5,370	6,500	3,580	4,360	3,580	4,670	4,280
17	---	---	---	---	10,800	5,360	6,210	3,630	4,330	3,280	4,850	4,600
18	---	---	---	---	14,300	5,210	5,720	3,490	4,420	3,130	4,600	4,140
19	---	---	---	---	9,660	5,590	4,970	3,510	4,330	3,180	4,520	4,040
20	---	---	---	---	5,940	3,030	4,820	3,510	3,720	3,060	4,350	3,830
21	---	---	---	---	3,860	2,600	4,240	3,460	3,480	2,980	4,400	3,680
22	---	---	---	---	3,980	2,300	4,540	3,380	3,430	2,890	10,400	3,820
23	---	---	---	---	4,310	2,340	5,630	3,390	3,900	2,860	7,500	5,170
24	---	---	---	---	5,110	3,070	4,620	3,270	3,880	2,960	7,560	5,430
25	---	---	---	---	4,990	3,790	4,680	3,300	3,850	3,070	7,220	5,920
26	---	---	---	---	4,960	4,030	4,740	3,340	4,140	3,070	7,490	4,720
27	---	---	---	---	5,230	4,250	5,240	3,260	6,290	2,890	7,230	6,590
28	---	---	---	---	6,070	4,400	6,500	3,360	5,200	2,980	7,180	5,210
29	---	---	---	---	4,900	4,260	6,970	3,200	4,700	3,090	6,840	5,570
30	---	---	---	---	5,070	3,920	5,210	3,440	4,140	3,320	5,680	4,640
31	---	---	---	---	---	---	4,820	3,510	3,950	3,460	---	---
MONTH	---	---	---	---	---	---	7,630	3,200	6,290	2,530	---	---

02310663 CHASSAHOWITZKA RIVER NEAR CHASSAHOWITZKA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD MAY TO SEPTEMBER 2003

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	26.9	---	27.5	25.4	27.6	25.1	27.0	25.4	27.2	26.4
2	---	---	27.3	24.3	28.8	25.0	27.6	25.5	27.0	25.9	26.9	26.4
3	---	---	27.3	24.7	28.6	25.3	27.1	25.5	27.3	25.2	---	---
4	---	---	27.8	24.4	27.2	24.0	27.7	25.5	27.5	26.2	---	---
5	---	---	28.7	25.1	26.4	23.6	27.8	25.6	27.4	26.5	---	---
6	---	---	29.2	26.1	28.1	23.9	28.2	25.7	27.6	26.6	---	---
7	---	---	29.6	26.0	29.5	24.5	28.1	26.0	27.0	25.8	---	---
8	---	---	30.2	25.6	28.6	25.8	27.9	25.7	26.2	25.3	---	---
9	---	---	30.5	25.4	27.7	24.7	27.2	25.1	25.4	24.9	---	---
10	---	---	30.4	25.8	28.4	24.9	28.3	25.4	25.4	24.3	26.2	---
11	---	---	30.0	25.8	28.7	25.2	29.4	25.5	26.3	24.9	26.1	24.6
12	---	---	29.6	25.8	29.9	26.3	28.4	25.4	26.8	25.4	26.5	24.8
13	---	---	28.2	24.4	29.5	25.8	27.2	24.6	26.9	25.6	26.9	25.4
14	---	---	28.7	24.3	29.9	26.2	27.3	24.4	27.0	25.4	26.9	25.9
15	---	---	28.5	25.0	30.4	26.1	28.0	24.9	26.9	25.5	26.9	26.1
16	---	---	29.2	25.1	29.4	26.5	27.2	25.2	27.1	25.7	26.9	26.0
17	---	---	29.8	25.4	28.6	25.5	28.2	25.2	27.1	26.2	26.6	25.3
18	---	---	30.3	26.2	28.3	26.3	29.3	26.1	27.6	26.4	26.0	25.0
19	---	---	29.3	25.7	27.3	25.1	29.1	26.2	27.6	25.9	26.1	25.4
20	---	---	28.2	24.4	25.3	23.7	28.4	25.9	26.1	25.1	26.1	25.5
21	---	---	28.5	24.2	24.9	23.5	28.2	25.1	26.1	25.3	26.4	25.6
22	---	---	27.4	24.8	25.0	24.1	28.1	26.0	25.9	25.3	26.9	25.3
23	---	---	27.3	23.9	25.4	23.8	27.8	25.0	25.9	25.0	26.5	25.5
24	---	---	28.5	24.4	26.7	24.2	26.8	24.3	26.0	24.6	26.6	24.8
25	---	---	28.6	24.7	26.5	24.4	27.4	24.0	26.2	25.3	26.7	25.1
26	---	---	29.1	25.0	26.7	24.4	27.2	24.3	26.1	25.2	26.3	24.9
27	---	---	29.1	24.5	27.1	25.0	27.3	24.3	27.6	25.2	26.1	25.1
28	---	---	28.6	24.7	27.8	25.3	28.8	24.8	26.8	25.8	26.2	25.4
29	---	---	28.2	23.8	26.5	24.6	29.0	25.0	26.9	25.9	26.3	24.5
30	---	---	28.0	24.8	26.8	24.5	27.9	25.3	27.1	26.2	24.5	23.3
31	---	---	28.4	25.4	---	---	27.2	25.4	27.2	26.4	---	---
MONTH	---	---	---	---	30.4	23.5	29.4	24.0	27.6	24.3	---	---





## 02310675 HIDDEN RIVER NEAR HOMOSASSA, FL.

LOCATION.--Lat 28° 45' 59", long 82° 35' 20" (1927 North American datum), in NE $\frac{1}{4}$  sec.10 T.20 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on right bank, on Burnt Bridge Road, and 2.0 mi southeast of Homosassa. Homosassa.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--January 1997 to September 2003 (discharge measurements only); October 2003 to September 2004. Measurements made October 1998 to September 2002 are available in files of the Geological Survey.

GAGE.--Datum of gage has not been determined.

REMARKS.--Records poor. Discharge computed from relation between artesian pressure at Homosassa Well 3 near Homosassa using maximum daily water level and discharge at measuring site. See WRIR 01-4230 for computation techniques.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16	14	11	11	10	---	6.3	6.3	6.7	9.8	10
2	---	16	13	11	11	9.8	---	6.5	6.3	6.8	9.9	11
3	---	16	13	11	11	9.7	---	7.8	6.3	6.7	10	11
4	---	16	14	12	11	9.6	---	7.9	6.3	6.8	10	10
5	---	16	14	12	11	9.6	---	7.4	6.3	6.8	10	11
6	---	16	13	11	11	9.5	---	7.2	6.4	6.7	11	17
7	---	16	13	11	11	9.4	7.1	7.1	6.3	6.6	10	24
8	---	16	13	11	10	9.4	7.4	7.0	6.2	7.2	9.9	22
9	---	16	13	11	10	9.2	7.5	6.9	6.2	6.8	10	20
10	---	15	14	11	10	9.0	7.4	6.8	6.3	6.6	9.9	19
11	---	15	14	10	9.9	8.7	7.3	6.7	6.2	6.7	9.8	18
12	---	15	14	10	9.8	8.6	7.9	6.6	6.1	7.2	10	18
13	---	15	13	11	9.7	8.5	8.2	6.5	6.3	7.2	11	18
14	---	15	14	11	10	8.5	8.2	6.2	7.7	7.2	12	18
15	---	15	14	11	11	8.6	7.6	6.3	7.6	7.7	12	18
16	---	15	14	10	10	9.8	7.2	6.6	7.5	8.1	11	18
17	---	15	14	10	9.9	9.7	7.0	6.8	7.2	8.5	11	18
18	---	15	13	12	9.6	9.4	6.9	7.3	7.0	10	11	18
19	---	16	13	12	9.4	9.2	6.8	7.1	6.9	11	11	17
20	---	15	13	12	9.6	9.0	6.7	7.1	6.7	10	11	17
21	---	15	13	11	9.6	8.8	6.8	6.9	6.7	10	11	17
22	---	15	13	11	9.5	8.6	6.8	6.8	6.8	9.7	10	16
23	---	15	13	11	9.3	8.1	6.7	6.8	7.4	9.4	10	16
24	---	15	13	11	10	7.8	6.5	6.7	7.0	9.4	10	16
25	---	15	13	11	12	7.7	6.5	6.5	6.9	9.3	10	17
26	---	15	12	11	11	7.6	6.5	6.3	6.7	9.1	10	19
27	---	15	12	12	11	---	6.5	6.2	6.6	9.0	10	25
28	17	15	12	11	10	---	6.2	6.2	6.5	9.4	10	23
29	18	14	12	11	10	---	6.1	6.2	6.5	10	10	22
30	17	14	12	11	---	---	6.1	6.1	6.5	9.9	11	21
31	17	---	12	10	---	---	---	6.2	---	9.8	11	---
TOTAL	---	458	407	342	298.3	---	---	209.0	199.7	256.3	323.3	525
MEAN	---	15.3	13.1	11.0	10.3	---	---	6.74	6.66	8.27	10.4	17.5
MAX	---	16	14	12	12	---	---	7.9	7.7	11	12	25
MIN	---	14	12	10	9.3	---	---	6.1	6.1	6.6	9.8	10

02310678 HOMOSASSA SPRINGS AT HOMOSASSA SPRINGS, FL.

LOCATION.--Lat 28° 47'58", long 82° 35'20" (1927 North American datum), in NE<sup>1</sup>/<sub>4</sub> sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, approximately 600 ft upstream of bridge on nature trail in Homosassa Springs, 0.8 mi west of town of Homosassa Springs, and 3.1 mi northeast of Homosassa.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--1931-33, 1936, 1956, 1961, 1963-65 (miscellaneous discharge measurements); August 1965 to September 1978, June 1988 to March 1989 (discharge measurements only); October 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee, spring-pool stage, and discharge at measuring site. Discharge was not filtered for tidal affect. See WRIR 01-4230 for computation techniques.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	120	125	115	119	112	94	95	84	86	84	95
2	116	125	130	113	113	107	100	82	84	87	84	98
3	119	128	128	110	110	110	97	e87	85	86	84	103
4	112	107	111	105	111	106	96	e103	87	87	88	112
5	112	104	105	100	109	103	98	105	85	88	89	125
6	112	104	111	104	99	98	102	100	84	90	87	85
7	109	104	124	128	93	102	98	e97	88	91	103	58
8	109	105	115	124	120	106	89	94	91	91	104	84
9	110	117	111	103	121	111	91	93	92	96	102	97
10	111	136	96	104	110	113	96	93	91	95	98	105
11	108	124	94	128	109	120	98	96	89	93	95	110
12	105	108	110	120	106	113	92	98	89	93	85	111
13	108	102	110	110	112	110	e80	98	88	91	85	112
14	107	121	96	108	105	107	e85	103	87	86	92	110
15	109	109	113	106	92	106	e115	102	87	83	92	98
16	119	103	112	109	106	100	113	103	90	83	96	91
17	114	108	100	107	114	98	111	103	93	80	97	93
18	109	106	119	93	117	104	109	100	93	74	95	102
19	116	90	111	93	116	103	106	97	91	72	94	112
20	116	113	115	106	102	105	105	93	87	83	94	128
21	113	112	122	109	97	103	99	94	86	89	96	135
22	105	108	119	105	98	106	97	92	e81	95	97	126
23	105	104	110	106	104	126	102	90	e84	95	95	117
24	107	99	99	107	93	126	103	92	92	94	96	118
25	107	102	107	103	98	117	102	94	91	94	99	119
26	106	104	116	98	102	116	97	97	91	95	96	130
27	102	104	119	93	116	111	101	97	91	92	94	77
28	93	99	115	113	129	104	111	93	92	91	94	96
29	93	122	109	122	124	105	110	92	90	92	91	107
30	112	130	107	112	---	108	103	92	88	91	89	110
31	122	---	110	116	---	99	---	86	---	89	92	---
TOTAL	3,405	3,318	3,469	3,370	3,145	3,355	3,000	2,961	2,651	2,752	2,887	3,164
MEAN	110	111	112	109	108	108	100	95.5	88.4	88.8	93.1	105
MAX	122	136	130	128	129	126	115	105	93	96	104	135
MIN	93	90	94	93	92	98	80	82	81	72	84	58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

	93.3	94.2	97.1	99.2	96.6	93.6	90.5	86.6	83.4	86.2	89.4	90.0
MEAN	93.3	94.2	97.1	99.2	96.6	93.6	90.5	86.6	83.4	86.2	89.4	90.0
MAX	110	111	112	109	108	110	107	97.8	97.9	107	111	111
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(1998)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)
MIN	81.5	81.0	87.5	89.7	87.6	77.8	77.3	75.5	73.3	73.5	78.1	75.3
(WY)	(1998)	(2001)	(2002)	(2001)	(2001)	(2001)	(2000)	(2001)	(2002)	(2000)	(1997)	(1997)

SUMMARY STATISTICS

FOR 2004 WATER YEAR

WATER YEARS 1996 - 2004

ANNUAL TOTAL	37,477	
ANNUAL MEAN	102	95.1
HIGHEST ANNUAL MEAN		102
LOWEST ANNUAL MEAN		83.6
HIGHEST DAILY MEAN	136	Nov 10, 2003
LOWEST DAILY MEAN	58	Sep 7, 1996
ANNUAL SEVEN-DAY MINIMUM	80	Jul 14, 2002
10 PERCENT EXCEEDS	119	112
50 PERCENT EXCEEDS	103	95
90 PERCENT EXCEEDS	87	78

e Estimated

02310678 HOMOSASSA SPRINGS AT HOMOSASSA SPRINGS, FL.

PERIOD OF RECORD.--June to September 2004

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors.

REMARKS.--Temperature and specific conductance records are good.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Maximum, 5,400 microsiemens, Aug. 12; minimum, 1,160 microsiemens, Sept. 27.

TEMPERATURE.--Maximum, 23.6° C, many days; minimum, 23.1° C, July 28.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD JUNE TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	4,640	2,740	---	---	4,170	2,750
2	---	---	---	---	---	---	4,770	2,720	---	---	3,320	2,640
3	---	---	---	---	---	---	4,810	2,730	---	---	3,340	2,720
4	---	---	---	---	---	---	4,780	2,760	3,620	2,680	3,160	2,840
5	---	---	---	---	---	---	4,680	2,730	3,720	2,680	3,440	2,930
6	---	---	---	---	---	---	4,470	2,720	4,060	2,700	3,890	1,350
7	---	---	---	---	---	---	4,340	2,660	3,150	2,600	4,960	3,080
8	---	---	---	---	---	---	4,180	2,630	3,250	2,190	3,260	2,770
9	---	---	---	---	---	---	3,810	2,680	3,300	2,500	3,340	2,510
10	---	---	---	---	---	---	4,190	2,730	3,940	2,710	3,440	2,580
11	---	---	---	---	---	---	4,550	2,740	4,310	2,790	3,420	2,240
12	---	---	---	---	---	---	4,400	2,710	5,400	2,830	3,240	2,260
13	---	---	---	---	---	---	4,570	2,790	5,370	3,310	3,590	2,200
14	---	---	---	---	---	---	4,670	2,820	3,500	2,570	2,960	2,020
15	---	---	---	---	---	---	4,550	2,770	3,570	2,580	3,030	1,490
16	---	---	---	---	---	---	4,660	2,580	3,450	2,530	3,100	2,030
17	---	---	---	---	---	---	4,860	2,660	3,710	2,680	3,190	2,600
18	---	---	---	---	---	---	4,850	2,430	4,050	2,850	3,080	2,630
19	---	---	---	---	---	---	4,220	2,450	4,040	2,870	3,460	2,550
20	---	---	---	---	---	---	3,760	2,220	4,010	2,830	3,790	2,950
21	---	---	---	---	---	---	2,850	2,320	3,980	2,810	4,070	2,900
22	---	---	---	---	---	---	3,000	2,350	4,050	2,670	3,190	2,370
23	---	---	---	---	---	---	3,090	2,510	4,330	2,830	3,130	2,050
24	---	---	---	---	---	---	3,580	2,660	4,350	2,870	3,130	2,170
25	---	---	---	---	---	---	3,440	2,610	4,080	2,840	3,160	2,250
26	---	---	---	---	---	---	3,680	2,720	4,620	2,850	4,440	3,080
27	---	---	---	---	---	---	4,280	2,800	4,620	2,940	3,190	1,160
28	---	---	---	---	4,170	2,740	4,100	2,840	4,620	2,880	3,100	2,610
29	---	---	---	---	4,510	2,670	---	---	4,660	2,920	3,180	2,530
30	---	---	---	---	4,640	2,770	---	---	4,450	2,870	3,130	2,430
31	---	---	---	---	---	---	---	---	4,290	2,740	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	4,960	1,160

02310678 HOMOSASSA SPRINGS AT HOMOSASSA SPRINGS, FL—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD JUNE TO SEPTEMBER 2004

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	23.6	23.3	---	---	23.5	23.3
2	---	---	---	---	---	---	23.6	23.3	---	---	23.5	23.3
3	---	---	---	---	---	---	23.5	23.3	---	---	23.5	23.3
4	---	---	---	---	---	---	23.6	23.3	---	---	23.5	23.3
5	---	---	---	---	---	---	23.4	23.3	23.5	23.3	23.4	23.3
6	---	---	---	---	---	---	23.6	23.3	23.5	23.3	23.4	23.3
7	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.5	23.3
8	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.6	23.3
9	---	---	---	---	---	---	23.6	23.3	23.4	23.3	23.6	23.3
10	---	---	---	---	---	---	23.6	23.3	23.5	23.3	23.5	23.3
11	---	---	---	---	---	---	23.6	23.3	23.5	23.3	23.6	23.3
12	---	---	---	---	---	---	23.5	23.3	23.4	23.3	23.5	23.3
13	---	---	---	---	---	---	23.4	23.3	23.4	23.3	23.6	23.3
14	---	---	---	---	---	---	23.6	23.3	23.4	23.3	23.4	23.3
15	---	---	---	---	---	---	23.5	23.3	23.4	23.3	23.4	23.3
16	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.5	23.4
17	---	---	---	---	---	---	23.6	23.3	23.5	23.3	23.5	23.3
18	---	---	---	---	---	---	23.4	23.3	23.5	23.3	23.5	23.3
19	---	---	---	---	---	---	23.6	23.3	23.6	23.3	23.5	23.3
20	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.4	23.3
21	---	---	---	---	---	---	23.5	23.3	23.4	23.3	23.4	23.3
22	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.5	23.3
23	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.5	23.3
24	---	---	---	---	---	---	23.5	23.3	23.6	23.3	23.5	23.3
25	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.5	23.3
26	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.3	23.3
27	---	---	---	---	---	---	23.5	23.3	23.5	23.3	23.5	23.3
28	---	---	---	---	23.5	23.3	23.5	23.1	23.6	23.3	23.5	23.3
29	---	---	---	---	23.5	23.3	---	---	23.6	23.3	23.5	23.3
30	---	---	---	---	23.6	23.3	---	---	23.5	23.3	23.5	23.3
31	---	---	---	---	---	---	---	---	23.6	23.3	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	23.6	23.3



02310688 SE FORK HOMOSASSA SPRING AT HOMOSASSA SPRINGS, FL.

LOCATION.--Lat 28° 47' 50", long 82° 35' 24" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, at bridge on Fishbowl Drive, 0.6 mi west of town of Homosassa Springs, and 3.1 mi northeast of Homosassa.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--1932, 1933, 1936, 1946, 1956, 1963-65, 1976-86, 1997-2000 (discharge measurements only); October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage has not been determined.

REMARKS.--Records poor. Missing data is not estimated because missing rate of change data can not be estimated. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee, gage-heights in the spring run, rate of change in stage, and field measurements. See WRIR 01-4230 for computation techniques.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	87	87	81	79	75	71	69	60	60	59	67
2	87	89	93	78	78	78	70	63	59	60	60	69
3	87	89	85	78	78	79	73	64	61	60	60	73
4	82	75	77	75	78	75	68	75	62	61	63	79
5	85	78	78	73	75	73	71	72	59	62	63	90
6	83	78	84	80	68	71	72	68	61	64	63	44
7	81	78	86	91	69	74	68	67	63	63	76	56
8	82	79	81	80	88	76	64	66	64	65	69	69
9	82	89	78	71	78	76	67	66	64	66	70	73
10	82	96	66	80	75	82	69	66	64	67	68	77
11	80	83	77	88	74	81	68	68	64	65	66	80
12	80	78	79	79	73	76	66	68	64	65	56	80
13	82	77	78	75	79	---	56	70	62	62	64	81
14	79	88	69	75	69	---	71	74	62	60	65	80
15	86	77	84	74	67	---	82	70	61	58	65	69
16	86	77	77	76	79	---	77	71	63	58	67	72
17	81	80	75	74	80	---	76	70	64	55	67	73
18	82	76	82	67	82	76	75	69	64	53	66	79
19	86	69	79	71	77	74	72	66	62	54	66	86
20	86	87	83	79	71	74	73	65	61	62	67	93
21	81	79	86	76	68	71	68	66	60	63	68	95
22	79	79	82	75	70	78	69	64	58	66	68	86
23	79	76	76	75	72	87	72	64	62	65	67	85
24	80	73	73	74	63	83	71	65	64	65	69	86
25	80	78	79	71	72	78	71	66	63	66	70	85
26	79	77	82	68	72	79	68	68	64	67	66	88
27	75	75	81	68	85	75	74	67	64	64	66	61
28	69	74	79	85	87	72	76	64	65	64	66	79
29	78	93	76	80	81	75	75	67	62	63	64	82
30	84	87	75	76	---	73	72	64	61	63	63	82
31	88	---	79	83	---	70	---	61	---	62	66	---
MEAN	81.8	80.7	79.5	76.6	75.4	---	70.8	67.2	62.2	62.2	65.6	77.3
MAX	88	96	93	91	88	---	75	65	67	76	95	95
MIN	69	69	66	67	63	---	61	58	53	56	44	44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	67.8	73.1	66.7	66.3	66.0	58.7	60.7	64.8	58.4	65.0	68.9	73.9
MAX	81.8	80.7	79.5	76.6	75.4	66.8	70.8	67.2	64.7	78.2	81.6	82.2
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)
MIN	60.1	65.4	60.0	60.5	59.4	52.4	52.4	62.4	48.4	54.6	59.4	62.2
(WY)	(2001)	(2003)	(2002)	(2001)	(2001)	(2001)	(2002)	(2003)	(2002)	(2002)	(2001)	(2001)

SUMMARY STATISTICS

WATER YEARS 2001 - 2004

HIGHEST DAILY MEAN	97	Aug 14, 2003
LOWEST DAILY MEAN	38	Jun 12, 2001
ANNUAL SEVEN-DAY MINIMUM	44	Jun 11, 2002

## 02310700 HOMOSASSA RIVER AT HOMOSASSA, FL.

LOCATION.--Lat 28° 47'06", long 82° 37'05" (1927 North American datum), in NE $\frac{1}{4}$  sec.31, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on left bank, on private dock, 0.3 mi northwest of Homosassa, and 5.3 mi upstream from mouth.

DRAINAGE AREA.--Not determined.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1964 to September 1965 (gage heights and periodic discharge measurements only); October 1965 to September 1969 (periodic discharge measurements and maximum and minimum gage heights only); October 1969 to September 1976 (maximum and minimum gage heights only); October 1976 to September 1978 (maximum and minimum elevations only); July 1997 to February 1999 (gage heights only); May to September 2004.

GAGE.--Water-stage and velocity recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to July 1997 to February 1999, at site 500 ft upstream at same site at same datum.

REMARKS.--Residual discharge records poor. Affected by tide. Instantaneous discharge computed from index-velocity gage height multiple linear regression relation and gage height-to-area quadratic equation relation. A ninth-order Butterworth low-pass filter is used to yield the residual discharge for the Homosassa River station. The residual discharges are not total "freshwater" flow, but are a combination of freshwater flow and water storage caused by higher or lower Gulf of Mexico mean water levels. The residual discharge is used to estimate mean and median discharge values.

DISCHARGE, CUBIC FEET PER SECOND  
PERIOD MAY TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	199	210	180	347
2	---	---	---	---	---	---	---	---	241	198	332	351
3	---	---	---	---	---	---	---	---	232	182	364	341
4	---	---	---	---	---	---	---	---	272	238	345	226
5	---	---	---	---	---	---	---	---	116	255	242	378
6	---	---	---	---	---	---	---	---	287	248	394	-756
7	---	---	---	---	---	---	---	---	292	177	394	1,970
8	---	---	---	---	---	---	---	---	232	276	185	1,300
9	---	---	---	---	---	---	---	---	227	186	234	806
10	---	---	---	---	---	---	---	---	177	172	199	612
11	---	---	---	---	---	---	---	---	195	166	194	470
12	---	---	---	---	---	---	---	---	194	228	-60	491
13	---	---	---	---	---	---	---	---	287	115	647	425
14	---	---	---	---	---	---	---	---	333	145	391	443
15	---	---	---	---	---	---	---	---	305	204	379	-76
16	---	---	---	---	---	---	---	---	349	232	322	545
17	---	---	---	---	---	---	---	---	247	106	249	601
18	---	---	---	---	---	---	---	189	203	280	250	692
19	---	---	---	---	---	---	---	158	164	534	256	628
20	---	---	---	---	---	---	---	204	190	694	279	426
21	---	---	---	---	---	---	---	261	210	343	341	293
22	---	---	---	---	---	---	---	161	250	293	241	169
23	---	---	---	---	---	---	---	257	442	223	254	266
24	---	---	---	---	---	---	---	269	259	286	300	383
25	---	---	---	---	---	---	---	272	189	268	283	349
26	---	---	---	---	---	---	---	222	223	229	199	-63
27	---	---	---	---	---	---	---	172	188	183	252	258
28	---	---	---	---	---	---	---	143	206	320	211	1,260
29	---	---	---	---	---	---	---	242	165	277	209	692
30	---	---	---	---	---	---	---	108	177	210	298	439
31	---	---	---	---	---	---	---	131	---	162	319	---
MEAN	---	---	---	---	---	---	---	---	235	246	280	476
MAX	---	---	---	---	---	---	---	---	442	694	647	1,970
MIN	---	---	---	---	---	---	---	---	116	106	-60	-756

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	---	235	246	280	476
MAX	---	---	---	---	---	---	---	---	235	246	280	476
(WY)	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	---	---	---	235	246	280	476
(WY)	---	---	---	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)

## SUMMARY STATISTICS

## FOR 2004 WATER YEAR

HIGHEST DAILY MEAN	1970	Sep 7
LOWEST DAILY MEAN	-756	Sep 6
ANNUAL SEVEN-DAY MINIMUM	171	Jul 11

## 02310700 HOMOSASSA RIVER AT HOMOSASSA, FL.

PERIOD OF RECORD.--May to September 2004.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors.

REMARKS.--Temperature and specific conductance records are good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 29,500 microsiemens, Nov. 6, 2002; minimum, 1,050 microsiemens, Aug. 8, 2003.

TEMPERATURE.--Maximum, 32.2° C, July 11, 2004; minimum, 12.5° C, Jan. 19, 2001.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Maximum, 21,200 microsiemens, July 18; minimum, 2,040 microsiemens, Sept. 9.

TEMPERATURE.--Maximum, 32.2° C, July 11; minimum, 23.7° C, Sept. 21, 26.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
PERIOD MAY TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	15,800	5,160	9,640	4,250	14,300	3,940	5,210	3,840
2	---	---	---	---	17,400	4,710	10,300	4,720	13,000	3,840	4,360	3,700
3	---	---	---	---	17,600	5,060	10,700	5,450	10,200	3,730	4,330	3,790
4	---	---	---	---	17,300	5,600	10,700	6,440	6,110	3,510	4,260	3,800
5	---	---	---	---	20,000	6,050	14,300	5,410	5,810	3,730	4,220	3,140
6	---	---	---	---	19,500	6,730	11,700	4,870	5,300	3,850	17,200	3,910
7	---	---	---	---	17,600	6,300	11,400	4,560	4,320	3,480	17,000	4,370
8	---	---	---	---	17,200	6,230	11,100	3,900	6,210	4,260	4,370	2,230
9	---	---	---	---	15,900	6,240	9,000	3,670	4,540	3,460	2,440	2,040
10	---	---	---	---	15,100	5,550	8,250	3,880	4,650	3,460	2,620	2,170
11	---	---	---	---	14,100	5,190	8,680	3,730	5,470	3,750	3,270	2,610
12	---	---	---	---	12,500	5,040	7,760	3,290	17,200	3,900	3,590	3,050
13	---	---	---	---	11,200	4,640	8,510	3,580	11,300	4,390	3,900	3,380
14	---	---	---	---	10,400	5,090	10,300	3,790	8,470	4,520	4,000	3,500
15	---	---	---	---	10,300	5,200	12,700	4,090	6,910	4,230	9,910	3,270
16	---	---	---	---	9,620	4,970	12,700	4,160	5,470	3,660	8,920	3,860
17	---	---	---	---	9,670	4,430	20,200	3,900	5,110	3,720	6,040	2,970
18	---	---	9,660	7,460	9,750	3,990	21,200	4,620	4,820	3,890	4,240	3,240
19	---	---	9,330	7,820	10,500	4,020	17,700	5,730	4,400	3,670	4,440	3,700
20	---	---	8,700	7,940	11,700	4,280	9,830	4,680	4,290	3,790	4,210	3,770
21	---	---	11,700	4,790	13,400	4,400	5,270	3,960	4,580	3,900	4,400	3,930
22	---	---	11,700	5,580	13,700	4,770	4,500	3,380	5,330	3,820	4,790	3,760
23	---	---	14,100	6,200	13,500	4,020	3,930	3,370	6,050	3,950	4,400	3,560
24	---	---	12,900	6,220	5,950	3,740	3,960	3,350	6,470	3,830	3,800	3,520
25	---	---	11,900	6,960	5,610	4,020	4,190	3,440	5,710	3,900	4,020	3,520
26	---	---	10,200	6,850	5,550	3,620	4,340	3,550	6,920	3,770	4,140	2,900
27	---	---	7,560	4,560	6,140	3,620	5,630	3,570	7,510	3,870	15,600	4,120
28	---	---	6,310	4,040	5,840	3,650	6,540	3,190	8,120	3,540	10,300	4,100
29	---	---	5,940	3,860	8,140	3,490	6,600	3,240	8,990	3,790	4,100	2,900
30	---	---	6,300	4,040	9,010	4,240	8,010	3,460	10,100	3,840	3,470	2,840
31	---	---	8,830	4,690	---	---	11,100	3,330	8,410	3,730	---	---
MONTH	---	---	---	---	20,000	3,490	21,200	3,190	17,200	3,460	17,200	2,040

02310700 HOMOSASSA RIVER AT HOMOSASSA, FL.—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
PERIOD MAY TO SEPTEMBER 2004

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	31.3	29.6	30.8	28.5	31.2	28.4	30.1	28.6
2	---	---	---	---	31.7	29.4	31.2	28.4	30.4	27.8	29.2	27.8
3	---	---	---	---	31.1	28.6	31.6	28.7	30.2	27.9	29.1	27.7
4	---	---	---	---	30.9	28.5	31.2	29.0	29.2	27.8	28.8	27.4
5	---	---	---	---	30.4	28.3	31.0	28.8	29.7	27.7	27.4	24.0
6	---	---	---	---	30.7	27.9	31.5	27.8	29.3	28.4	24.6	24.3
7	---	---	---	---	30.6	28.0	31.1	29.0	28.7	26.7	25.5	24.3
8	---	---	---	---	30.6	27.7	31.1	28.2	28.7	26.4	27.2	25.3
9	---	---	---	---	30.2	27.9	30.1	27.4	28.4	26.0	28.2	26.3
10	---	---	---	---	30.4	28.3	31.4	28.6	29.4	26.7	29.7	26.0
11	---	---	---	---	30.8	28.8	32.2	29.4	30.4	27.3	28.2	26.1
12	---	---	---	---	31.2	29.3	31.1	28.0	30.0	28.3	27.4	25.9
13	---	---	---	---	31.4	29.6	30.6	28.0	28.9	26.4	27.5	25.4
14	---	---	---	---	30.3	28.4	31.3	27.9	26.5	25.4	26.9	25.7
15	---	---	---	---	30.1	28.0	30.7	28.8	25.9	24.7	27.3	25.4
16	---	---	---	---	29.9	27.9	31.1	28.2	28.0	24.6	27.8	26.1
17	---	---	---	---	30.2	28.1	30.6	27.8	29.4	26.5	28.0	26.9
18	---	---	26.7	26.1	30.6	28.1	29.8	27.3	30.2	27.7	28.4	27.4
19	---	---	26.9	26.3	31.6	28.9	28.6	26.5	30.6	28.2	28.1	26.4
20	---	---	27.5	26.8	31.9	29.7	27.9	26.1	30.3	28.7	26.4	24.4
21	---	---	28.4	27.2	31.7	29.8	28.9	26.1	29.7	28.2	25.4	23.7
22	---	---	28.3	27.6	31.8	29.7	29.5	27.2	28.7	27.0	26.0	24.0
23	---	---	28.8	27.8	31.8	28.6	29.9	27.8	29.0	27.4	26.7	24.6
24	---	---	28.8	27.9	30.9	28.6	29.3	27.5	29.9	27.0	26.3	24.6
25	---	---	29.1	27.8	31.3	29.0	28.8	26.7	29.5	27.2	25.8	24.3
26	---	---	29.1	28.1	31.4	29.0	29.8	27.2	30.2	26.5	24.9	23.7
27	---	---	29.1	28.3	31.4	28.8	29.9	27.7	30.6	27.0	25.5	23.8
28	---	---	29.0	28.3	30.4	28.8	29.6	26.9	30.5	27.2	26.4	24.9
29	---	---	29.2	28.4	30.8	27.5	30.1	26.5	31.2	27.7	26.9	25.5
30	---	---	29.5	28.3	30.9	27.8	30.7	27.2	31.2	28.7	27.1	25.5
31	---	---	30.6	29.1	---	---	31.4	27.6	31.0	28.5	---	---
MONTH	---	---	---	---	31.9	27.5	32.2	26.1	31.2	24.6	30.1	23.7

## 02310747 CRYSTAL RIVER AT BAGLEY COVE NEAR CRYSTAL RIVER, FL.

LOCATION.--Lat 28° 54' 23", long 82° 37' 26" (1927 North American datum), in NE $\frac{1}{4}$  sec.18, T.18 S., R.17 E., Citrus County, Hydrologic Unit 03100207, on right bank of private boat dock, 1.0 mi upstream from the Salt Creek-Crystal River bifurcation, 1.5 mi southwest of Crystal River, and 3.6 mi upstream mouth.

DRAINAGE AREA.--Undetermined.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 2002 to September 2003 (maximum and minimum residual discharge); October 2003 to September 2004 (daily mean residual discharge).

GAGE.--Water-stage and velocity recorder. Datum of gage has not been determined.

REMARKS.--Residual discharge records fair to poor. Instantaneous discharge computed from index-velocity, gage height, velocity 2 multiple linear regression relation and gage height-to-area quadratic equation relation. A ninth-order Butterworth low-pass filter is used to yield the residual discharge for the Crystal River station. The residual discharges are not total "freshwater" flow, but are a combination of freshwater flow and water storage caused by higher or lower Gulf of Mexico mean water levels. The residual discharge is used to estimate mean daily discharge values.

EXTREMES FOR PERIOD OF RECORD AUGUST 2002 TO SEPTEMBER 2003.--Maximum residual discharge, 2,570 ft<sup>3</sup>/s, Jan. 23, 2003; maximum gage height, 15.18 ft, Nov. 6, 2002; minimum residual discharge, -1,060 ft<sup>3</sup>/s, Nov. 5, 6, 2002; minimum gage height, 9.13 ft, Jan. 24, 2003.

EXTREMES FOR PERIOD OF RECORD OCTOBER 2003 TO SEPTEMBER 2004.--Maximum daily mean residual discharge, 2,320 ft<sup>3</sup>/s, Apr. 14, 2004; maximum gage height, 16.17 ft, Sept.27, 2003; minimum daily mean residual discharge, -1,050 ft<sup>3</sup>/s, Sept. 6, 2004; minimum gage height, 8.74 ft, Sept. 6, 2004.

EXTREMES FOR CURRENT PERIOD.--Maximum daily mean residual discharge, 2,320 ft<sup>3</sup>/s, Apr. 14; maximum gage height, 16.17 ft, Sept. 27; minimum daily mean residual discharge, -1,050 ft<sup>3</sup>/s, Sept. 6; minimum gage height, 8.74 ft, Sept. 6.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	997	1,240	1,070	1,090	811	505	1,480	647	906	944	834	1,190
2	1,280	1,050	1,240	935	882	1,100	785	878	1,030	953	960	1,010
3	861	646	508	1,010	1,020	904	1,140	1,570	937	895	1,060	999
4	756	763	856	914	1,000	904	865	1,180	1,070	986	1,050	855
5	1,050	1,140	1,230	1,110	855	908	1,260	862	823	1,080	751	1,310
6	863	1,200	1,840	1,840	901	1,210	1,060	973	917	1,010	1,170	-1,050
7	1,110	1,190	962	1,270	1,770	979	888	1,170	1,080	925	1,030	2,170
8	1,260	1,320	1,050	559	1,520	1,270	1,160	988	989	1,150	925	1,180
9	1,280	1,680	952	798	576	844	1,170	977	965	749	704	1,010
10	1,150	766	35	2,070	929	1,450	1,190	838	873	716	516	1,070
11	1,290	635	1,980	1,050	794	738	715	995	851	622	578	767
12	1,490	820	959	819	890	858	826	821	824	773	-212	753
13	1,130	1,410	753	1,070	1,030	981	570	1,040	848	501	1,310	717
14	781	1,010	1,360	947	476	772	2,320	895	947	392	981	807
15	1,300	714	1,520	1,170	1,130	1,070	970	849	892	747	1,040	-54
16	696	1,240	651	940	1,510	866	945	1,040	1,130	800	939	1,140
17	858	1,290	1,850	611	1,010	1,310	961	949	738	306	789	1,390
18	1,330	456	946	729	1,020	899	871	903	845	330	775	1,260
19	866	955	1,310	1,540	538	1,030	893	892	784	959	767	1,330
20	938	1,510	1,150	1,400	975	962	1,040	858	1,020	1,260	820	1,160
21	518	968	1,070	903	1,180	859	893	851	824	937	831	661
22	1,290	1,160	1,010	1,220	1,340	1,520	1,240	674	980	877	785	824
23	1,260	1,180	828	1,220	865	1,030	989	757	1,120	730	794	735
24	1,200	1,290	1,070	1,050	1,050	596	879	905	862	842	711	946
25	1,380	1,440	1,620	934	1,210	767	855	963	657	746	694	1,400
26	1,330	1,170	1,380	1,100	1,060	980	641	897	801	725	540	---
27	1,230	1,030	1,040	1,320	1,650	812	1,330	576	689	709	856	---
28	1,190	1,790	981	1,790	879	897	537	642	689	950	735	---
29	2,170	1,860	1,010	553	631	1,180	575	952	788	850	818	---
30	1,340	1,000	1,150	895	---	719	517	623	722	877	989	---
31	1,050	---	1,270	1,310	---	559	---	819	---	776	1,110	---
MEAN	1,137	1,131	1,118	1,102	1,017	951	986	903	887	810	827	---

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	782	832	927	913	816	733	725	646	632	513	543	676
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## SUMMARY STATISTICS

## FOR 2003 CALENDAR YEAR

## WATER YEARS 2002 - 2004

ANNUAL MEAN	615	473		
HIGHEST DAILY MEAN	2,170	Oct 29	2,320	Apr 14, 2004
LOWEST DAILY MEAN	-317	Sep 22	-1,050	Sep 6, 2004
ANNUAL SEVEN-DAY MINIMUM	33	Jul 6	33	Jul 6, 2003
10 PERCENT EXCEEDS	1,240		900	
50 PERCENT EXCEEDS	513		466	
90 PERCENT EXCEEDS	160		87	

02310747 CRYSTAL RIVER AT BAGLEY COVE NEAR CRYSTAL RIVER, FL.

PERIOD OF RECORD.--August 2002 to current year.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature sensors.

REMARKS.--Temperature and specific conductance records are good.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Maximum, 33,900 microsiemens, Sept. 27, 2004; minimum, 914 microsiemens, Nov. 9, 2003.

TEMPERATURE.--Maximum, 31.7° C, June 13, 2004; minimum, 12.5° C, Jan. 19, 2001.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Maximum, 33,900 microsiemens, Sept. 27; minimum, 914 microsiemens, Nov. 9.

TEMPERATURE.--Maximum, 31.7° C, June 13; minimum, 13.7° C, Dec. 22, 23.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9,790	1,260	4,450	1,120	3,090	1,040	4,710	1,170	6,310	1,200	10,700	1,420
2	7,800	1,120	3,450	1,010	2,620	965	7,500	1,080	5,370	1,320	10,300	1,490
3	4,830	1,070	10,500	969	9,020	976	8,100	1,240	6,940	1,340	5,300	1,480
4	16,700	1,190	19,300	1,510	12,200	1,060	9,470	1,300	6,960	1,320	11,000	1,760
5	5,340	1,140	15,300	1,540	17,200	1,330	15,200	1,490	10,500	1,430	12,000	1,740
6	14,000	1,200	12,700	1,340	7,020	1,090	11,900	1,560	19,000	1,710	15,700	1,930
7	20,200	1,410	12,700	1,010	4,460	1,030	3,180	1,170	20,200	1,820	8,460	1,790
8	13,900	1,320	13,200	1,250	7,360	1,210	5,250	1,240	7,110	1,320	6,850	1,780
9	12,700	1,320	6,970	914	11,000	1,270	17,900	1,610	7,360	1,350	8,270	1,700
10	11,200	1,240	3,410	999	21,300	2,460	13,000	1,100	7,570	1,520	6,240	1,620
11	16,700	1,440	10,400	1,060	13,200	1,650	4,240	1,040	7,660	1,650	8,280	1,480
12	14,700	1,540	18,100	1,310	6,620	1,270	4,940	1,340	9,740	1,630	10,500	1,660
13	6,810	1,260	21,400	1,670	5,010	1,260	5,740	1,360	6,830	1,290	10,100	1,630
14	9,610	1,250	5,050	1,060	19,400	2,010	6,990	1,400	11,200	1,310	9,390	1,600
15	6,070	1,260	15,500	1,570	4,990	1,130	5,370	1,410	7,210	1,520	6,040	1,680
16	4,240	1,170	14,300	1,210	5,740	1,220	6,850	1,310	5,030	1,450	8,590	1,640
17	9,260	1,120	4,990	995	19,300	1,500	19,800	1,190	4,880	1,380	10,600	1,670
18	8,260	1,140	19,700	1,150	9,830	1,140	20,000	1,960	5,220	1,470	5,050	1,390
19	3,910	1,040	24,000	2,700	9,830	1,200	16,700	1,830	4,750	1,330	8,140	1,760
20	6,420	1,060	7,960	1,080	5,950	1,000	5,390	1,430	14,100	1,720	6,080	1,730
21	14,600	1,120	7,790	1,410	4,910	1,110	5,780	1,390	19,100	2,000	9,630	1,920
22	13,500	1,090	10,000	1,260	9,190	1,230	11,300	1,720	15,500	2,330	5,530	1,580
23	11,900	1,300	14,800	1,550	16,800	1,570	9,400	1,520	7,920	1,970	5,460	1,510
24	12,100	1,480	19,600	1,950	24,000	2,350	6,980	1,600	10,300	2,380	5,960	1,440
25	12,400	1,440	12,700	1,620	11,800	1,820	9,010	1,710	6,460	1,720	10,600	1,300
26	15,100	1,590	17,400	1,920	6,870	1,420	8,850	1,630	4,850	1,410	11,000	1,370
27	19,400	1,890	15,900	1,930	5,530	1,320	4,610	1,680	4,640	1,380	15,400	1,400
28	21,700	2,310	18,400	1,980	4,260	1,320	5,850	1,240	3,520	1,360	8,230	1,580
29	15,200	2,060	5,400	1,140	7,230	1,310	6,420	1,320	5,750	1,370	4,900	1,490
30	8,700	1,250	5,050	1,060	6,270	1,220	4,690	1,330	---	---	7,600	1,370
31	4,640	1,150	---	---	3,570	1,200	3,940	1,220	---	---	13,900	1,630
MONTH	21,700	1,040	24,000	914	24,000	965	20,000	1,040	20,200	1,200	15,700	1,300







WATER QUALITY DATA, PERIOD NOVEMBER 2002 TO JANUARY 2004

PASCO COUNTY

Samples were collected to characterize and compare surface-water quality in natural and augmented wetlands.

WATER-QUALITY DATA, PERIOD NOVEMBER 2002 TO JANUARY 2004

Date	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd, uS/cm 25 degC (00095)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Chlor-ide, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
281415082343000 STARKEY WELL FIELD S68 NEAR NEW PORT RICHEY FL (LAT 28 14 15N LONG 082 34 30W)													
NOV 2002 12...	1.7	4.5	70	13	3.30	1.10	.80	4.7	10.0	.80	137	2.8	2.8
FEB 2003 26...	5.7	4.4	39	6	1.40	.51	.10	3.0	5.70	.60	54	1.0	1.3
MAY 19...	2.7	4.4	53	7	1.60	.75	.60	4.3	8.80	.40	75	1.0	--
JUN 24...	3.9	4.7	38	5	1.10	.48	.30	1.8	3.80	2.10	44	.60	.90
SEP 03...	3.2	4.5	30	4	.77	.39	.20	1.4	3.00	.90	35	.50	.90
DEC 04...	5.3	4.8	60	14	3.70	1.10	.30	5.0	11.0	.40	99	.90	--
JAN 2004 08...	9.0	4.2	66	13	3.40	.99	<.10	5.3	13.0	.30	85	.90	1.6
281455082350000 STARKEY WELL FIELD S63 NEAR NEW PORT RICHEY FL (LAT 28 14 55N LONG 082 35 00W)													
NOV 2002 12...	2.1	7.4	472	240	86.0	5.40	1.00	5.7	8.50	1.90	273	<.20	.80
FEB 2003 26...	5.3	7.6	344	170	62.0	3.80	1.80	4.8	7.90	1.30	208	.50	.50
MAY 29...	1.3	7.5	469	230	84.0	5.50	.90	5.8	8.50	4.30	315	.20	--
JUN 24...	3.8	6.7	48	23	8.00	.65	.40	1.0	1.40	1.70	52	.40	.60
SEP 03...	1.8	7.5	439	230	82.0	5.00	.90	5.0	8.00	1.90	250	.30	.30
NOV 11...	5.2	7.7	460	230	85.0	5.40	.90	5.8	8.60	2.10	284	<.20	--
JAN 2004 08...	5.7	7.6	473	230	85.0	5.20	.80	5.8	8.50	3.00	276	.40	.40
281642082235000 CYPRESS CREEK SWAMP W19 NR DREXEL FL (LAT 28 16 42N LONG 082 23 50W)													
DEC 2002 18...	2.2	5.7	46	26	8.60	.99	.30	1.5	3.10	.70	101	1.2	1.4
FEB 2003 24...	9.2	5.8	51	25	8.60	.83	.40	1.8	3.50	.90	90	1.2	1.3
JUN 24...	1.0	6.1	70	36	13.0	.95	.20	1.2	1.80	.80	103	.90	1.2
SEP 01...	1.2	6.5	61	33	12.0	.84	.30	.9	1.80	.90	79	.70	.80
JAN 2004 23...	4.6	6.1	101	44	15.0	1.50	1.10	3.9	11.0	1.00	178	3.0	3.5
281820082225500 CYPRESS CREEK SWAMP W0S NEAR DREXEL FL (LAT 28 18 20N LONG 082 22 55W)													
NOV 2002 13...	4.2	7.6	494	250	85.0	8.30	.70	4.8	8.30	34.0	291	<.20	.80
FEB 2003 24...	5.7	7.4	350	170	60.0	5.80	.60	4.1	7.60	8.10	200	.50	.40
JUN 24...	2.6	6.5	109	58	20.0	2.00	.60	1.6	2.20	3.60	126	1.0	1.9
SEP 01...	3.5	7.6	325	160	57.0	5.30	.60	3.6	6.90	9.40	214	.50	.70

QUALITY OF SURFACE WATER

WATER QUALITY DATA, PERIOD NOVEMBER 2002 TO JANUARY 2004—Continued

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Phos- phorus, water, unfltrd mg/L (00665)	Organic carbon, water, fltrd, mg/L (00681)	Iron, water, fltrd, ug/L (01046)
281415082343000 STARKEY WELL FIELD S68 NEAR NEW PORT RICHEY FL								
NOV 2002								
12...	.593	.010	.009	<.001	.007	.014	49.0	1,510
FEB 2003								
26...	.010	.003	.008	<.001	<.020	.020	23.0	545
MAY								
19...	.015	.003	.005	.004	.004	--	26.0	518
JUN								
24...	.021	.010	.006	<.001	<.002	<.002	15.0	904
SEP								
03...	A.007	<.002	A.003	<.001	.013	.028	14.0	537
DEC								
04...	A.014	A.004	A.004	<.001	<.002	--	28.0	582
JAN 2004								
08...	A.010	<.002	A.004	<.001	<.002	.004	24.0	378
281455082350000 STARKEY WELL FIELD S63 NEAR NEW PORT RICHEY FL								
NOV 2002								
12...	.010	<.002	<.001	<.001	.003	.027	5.6	48
FEB 2003								
26...	.016	<.002	.002	<.001	.013	.020	9.8	4
MAY								
29...	.042	<.002	<.001	.004	.010	--	4.5	5
JUN								
24...	.020	.036	.005	<.001	.007	.021	11.0	66
SEP								
03...	A.164	<.002	<.001	A.018	.024	.032	4.7	10
NOV								
11...	A.149	<.002	A.001	A.012	.011	--	3.8	3
JAN 2004								
08...	A.286	A.012	A.002	A.020	.020	.028	4.2	4
281642082235000 CYPRESS CREEK SWAMP W19 NR DREXEL FL								
DEC 2002								
18...	.016	.007	.009	.008	.011	.015	30.0	339
FEB 2003								
24...	.027	.004	.010	.010	.012	.014	32.0	271
JUN								
24...	.020	<.002	.011	.006	.014	.033	27.0	238
SEP								
01...	A.009	<.002	A.007	A.004	.026	.040	24.0	199
JAN 2004								
23...	A.592	A.009	A.014	A.006	.040	.084	49.0	420
281820082225500 CYPRESS CREEK SWAMP WOS NEAR DREXEL FL								
NOV 2002								
13...	.062	.007	<.001	.034	.037	.053	2.3	6
FEB 2003								
24...	.004	<.002	.001	<.001	.006	.012	5.3	<2
JUN								
24...	.057	.014	.011	.011	.019	.033	32.0	255
SEP								
01...	A.022	A.003	A.004	A.009	.020	.039	12.0	60

Remark codes used in this table:  
 < -- Less than  
 A -- Average value

## **ELEVATION OF LAKES**

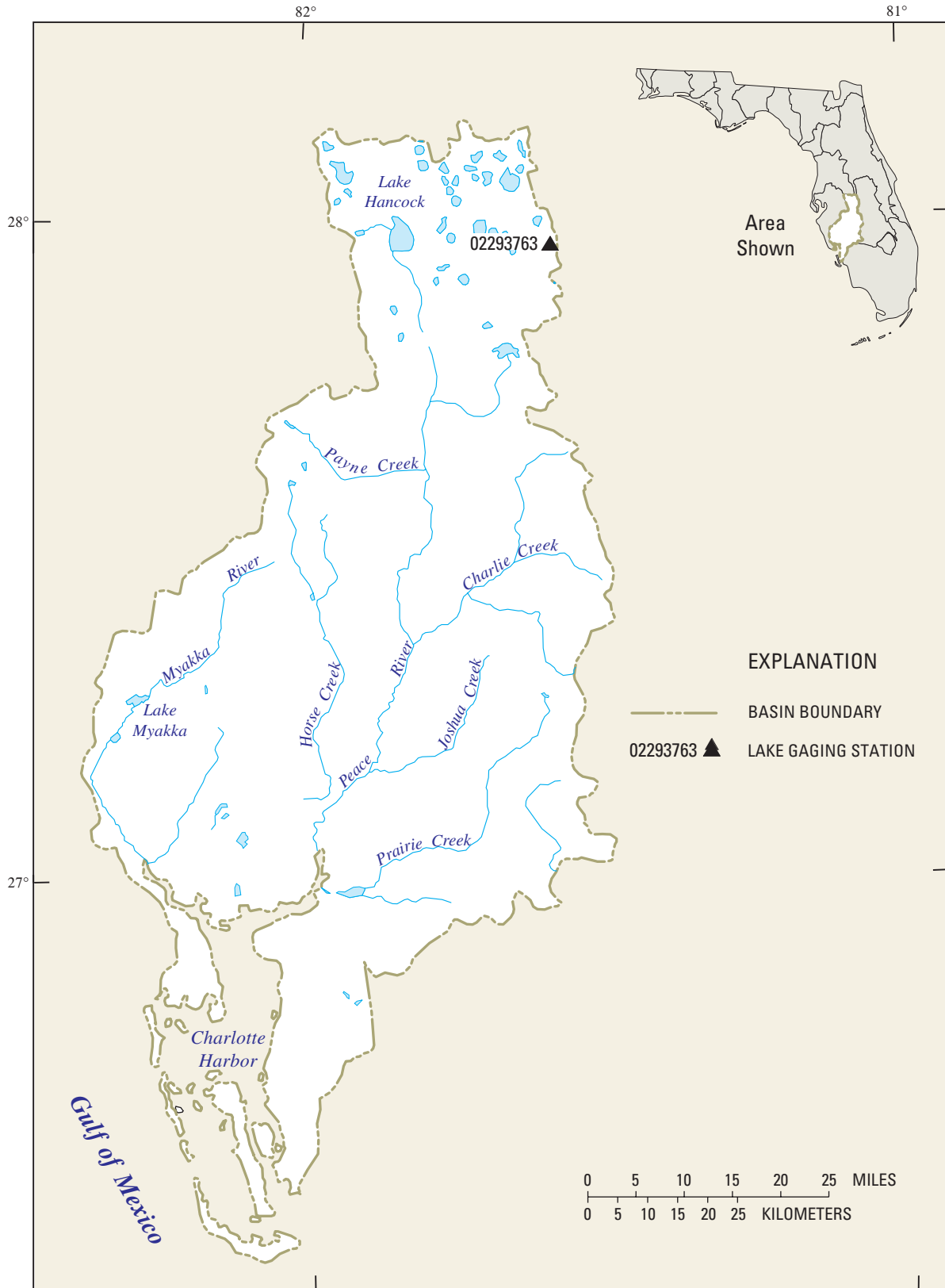


Figure 15.--Location of lake gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

## 02293763 LAKE STARR NEAR WAVERLY, FL.

LOCATION.--Lat 27° 57'17", long 81° 35'33" (1927 North American datum), in SW<sup>1</sup>/<sub>4</sub> sec.14, T.29 S., R.27 E., Polk County, Hydrologic Unit 03100101, on west shore of lake at East Starr Avenue, 800 ft east of Alternate U.S. Highway 27, and 2.1 mi south of Waverly.

SURFACE AREA.--134 acres (0.21 mi<sup>2</sup>).

DRAINAGE AREA.--1.15 mi<sup>2</sup> (revised).

PERIOD OF RECORD.--September 1995 to April 2001 (incomplete); May 19 to September 30, 2001 (daily observer readings); October 2001 to current year. Records of elevations prior to October 1995 are available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 82.87 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark); gage readings have been reduced to elevations above NGVD. Prior to May 9, 2000, at same site at datum 20.50 ft lower.

REMARKS.--Lake elevation was measured as part of a special study to compute lake-water budgets.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 106.57 ft, Apr. 4, 1998; minimum observed, 96.23 ft, July 5, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 104.97 ft, Sept. 30; minimum, 101.95 ft, June 4.

ELEVATION ABOVE NGVD 1929, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103.55	103.30	103.26	103.15	103.28	103.27	102.91	102.50	102.04	102.41	102.48	103.31
2	103.54	103.29	103.25	103.15	103.28	103.27	102.88	102.50	102.01	102.39	102.49	103.30
3	103.53	103.28	103.23	103.15	103.28	103.26	102.85	102.74	101.98	102.39	102.48	103.29
4	103.53	103.28	103.22	103.14	103.28	103.26	102.82	102.76	101.99	102.37	102.47	103.31
5	103.52	103.29	103.22	103.14	103.27	103.25	102.79	102.74	102.03	102.37	102.47	103.50
6	103.52	103.38	103.21	103.13	103.27	103.24	102.77	102.71	102.04	102.38	102.45	103.83
7	103.51	103.46	103.19	103.11	103.27	103.23	102.75	102.69	102.08	102.37	102.56	103.90
8	103.51	103.47	103.18	103.08	103.24	103.22	102.74	102.67	102.06	102.36	102.75	103.91
9	103.50	103.49	103.17	103.09	103.23	103.21	102.74	102.65	102.04	102.34	102.75	103.93
10	103.49	103.49	103.16	103.13	103.22	103.18	102.73	102.62	102.05	102.32	102.75	103.96
11	103.48	103.48	103.16	103.10	103.22	103.16	102.71	102.60	102.08	102.33	102.74	103.97
12	103.48	103.47	103.14	103.09	103.21	103.14	102.79	102.58	102.08	102.36	102.73	103.97
13	103.48	103.47	103.13	103.08	103.21	103.12	102.82	102.56	102.12	102.34	102.78	103.97
14	103.50	103.45	103.21	103.08	103.21	103.11	102.78	102.53	102.13	102.32	102.90	103.98
15	103.48	103.44	103.26	103.07	103.24	103.09	102.75	102.50	102.24	102.30	102.91	103.99
16	103.46	103.43	103.26	103.06	103.22	103.14	102.73	102.47	102.32	102.29	102.91	104.00
17	103.44	103.42	103.29	103.05	103.21	103.18	102.70	102.44	102.29	102.27	---	104.01
18	103.43	103.41	103.28	103.10	103.19	103.17	102.69	102.42	102.27	102.27	---	104.02
19	103.42	103.41	103.27	103.14	103.17	103.15	102.67	102.39	102.28	102.32	---	104.02
20	103.40	103.40	103.25	103.17	103.16	103.14	102.65	102.36	102.35	102.37	---	104.04
21	103.39	103.39	103.23	103.16	103.16	103.12	102.63	102.34	102.40	102.36	---	104.11
22	103.37	103.38	103.21	103.15	103.15	103.10	102.61	102.31	102.37	102.34	---	104.13
23	103.36	103.37	103.21	103.14	103.15	103.07	102.59	102.29	102.35	102.33	---	104.13
24	103.34	103.37	103.20	103.13	103.16	103.05	102.57	102.26	102.36	102.31	---	104.14
25	103.32	103.37	103.20	103.12	103.30	103.03	102.55	102.23	102.42	102.29	---	104.15
26	103.30	103.35	103.19	103.11	103.34	103.02	102.53	102.21	102.46	102.27	---	104.68
27	103.30	103.35	103.18	103.20	103.33	103.01	102.52	102.18	102.44	102.28	---	104.89
28	103.29	103.34	103.17	103.22	103.30	102.99	102.49	102.15	102.43	102.37	---	104.92
29	103.34	103.31	103.17	103.19	103.28	102.98	102.46	102.12	102.43	102.49	---	104.94
30	103.33	103.28	103.16	103.19	---	102.96	102.47	102.10	102.43	102.47	---	104.96
31	103.31	---	103.16	103.21	---	102.94	---	102.07	---	102.46	103.30	---
MEAN	103.43	103.39	103.21	103.13	103.24	103.13	102.69	102.44	102.22	102.35	---	104.04
MAX	103.55	103.49	103.29	103.22	103.34	103.27	102.91	102.76	102.46	102.49	---	104.96
MIN	103.29	103.28	103.13	103.05	103.15	102.94	102.46	102.07	101.98	102.27	---	103.29

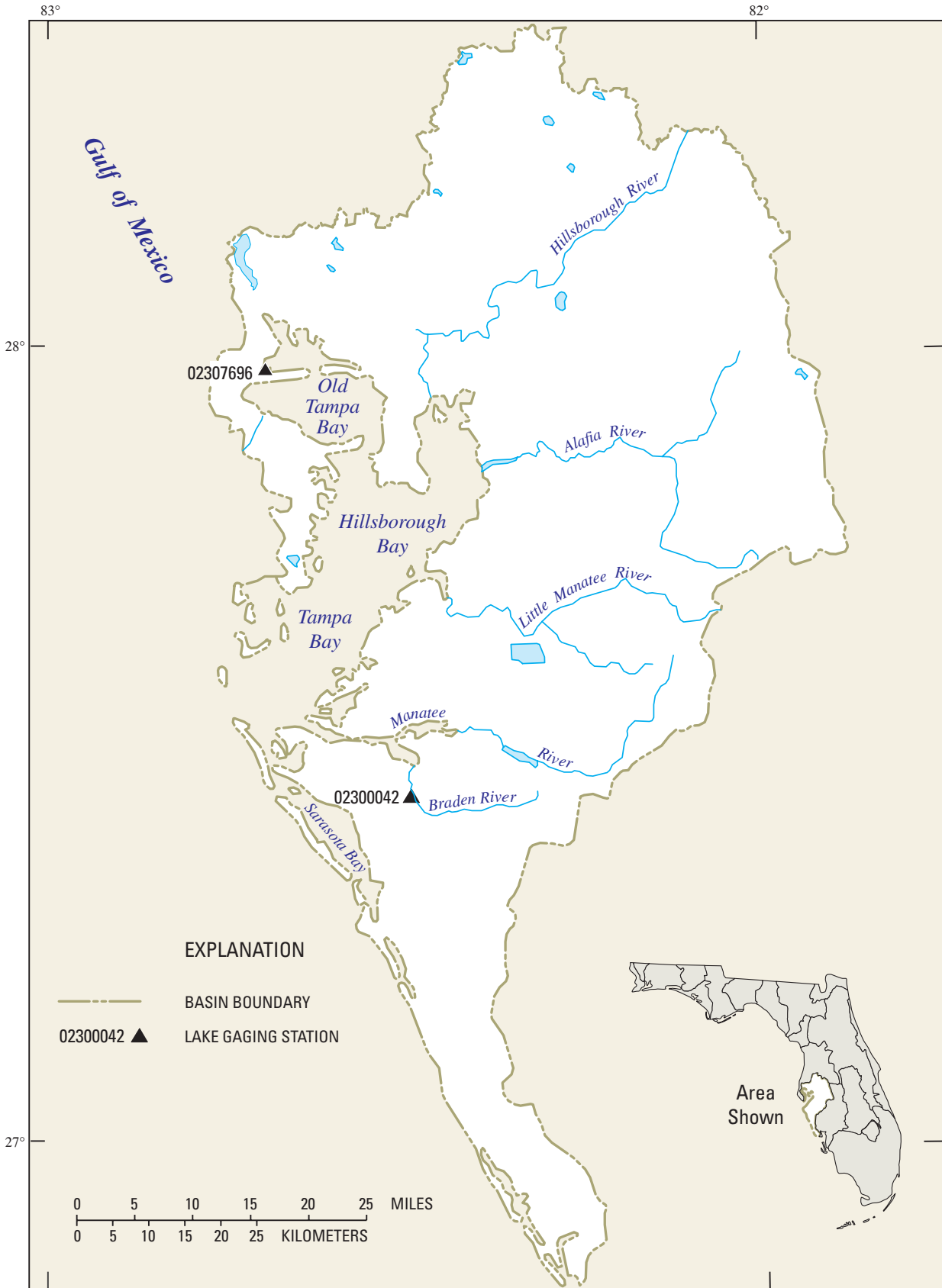


Figure 16.--Location of lake gaging stations in the Manatee, Little Manatee, Alafia, Hillsborough River basins, Tampa Bay and coastal area.

## 02300042 WARD LAKE NEAR BRADENTON, FL.

LOCATION.--Lat 27° 26'28", long 82° 29'16" (1927 North American datum), in NE $\frac{1}{4}$  sec.15, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on west shore of lake, 40 ft upstream from control structure, and 5 mi southeast of Bradenton.

SURFACE AREA.--57.6 acres (0.09mi<sup>2</sup>).

DRAINAGE AREA.--59.5 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--November 1942 to September 1947 (four times weekly); August 1976 to current year. Records of elevations prior to August 1976 are available in files of the Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1987, on east shore of lake at same datum; Oct. 1, 1987, to Apr. 9, 1992, on west shore of lake at same datum.

REMARKS.--Lake levels affected by diversion by city of Bradenton. Some elevations 1997, 2001, and 2002 water year provided by City of Bradenton.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 6.15 ft, Sept. 7, 1988; minimum observed, 2.60 ft below NGVD, June 16, 1945.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 5.00 ft, Sept. 26; minimum, 1.76 ft NGVD, June 11-14.

ELEVATION ABOVE NGVD 1929, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.10	3.92	3.61	3.87	3.96	4.00	3.54	3.49	2.15	3.96	4.11	4.24
2	4.07	3.92	3.57	3.86	3.98	3.98	3.50	3.46	2.08	4.00	4.16	4.21
3	4.04	3.92	3.54	3.86	3.97	3.96	3.46	3.43	2.02	4.02	4.27	4.15
4	4.03	3.91	3.51	3.87	3.95	3.96	3.42	3.47	1.95	4.00	4.61	4.11
5	4.01	3.91	3.47	3.86	3.94	3.95	3.37	3.50	1.94	4.01	4.51	4.12
6	4.00	3.92	3.44	3.86	3.93	3.94	3.32	3.50	1.89	3.98	4.37	4.55
7	3.99	3.92	3.41	3.85	3.91	3.93	3.29	3.48	1.83	4.03	4.36	4.73
8	3.97	3.92	3.38	3.85	3.90	3.92	3.25	3.45	1.81	4.08	4.51	4.48
9	3.97	3.91	3.35	3.84	3.89	3.92	3.21	3.41	1.79	4.01	4.52	4.44
10	3.96	3.90	3.33	3.83	3.89	3.90	3.17	3.36	1.77	3.97	4.36	4.57
11	3.96	3.89	3.28	3.80	3.88	3.90	3.13	3.32	1.77	3.95	4.25	4.53
12	3.96	3.89	3.25	3.78	3.88	3.89	3.20	3.27	1.76	3.97	4.18	4.35
13	3.96	3.89	3.23	3.76	3.88	3.89	3.42	3.23	1.76	3.95	4.15	4.26
14	3.95	3.87	3.38	3.75	3.89	3.88	3.67	3.17	1.79	3.93	4.26	4.20
15	3.94	3.86	3.88	3.72	3.99	3.87	3.83	3.11	1.93	3.92	4.41	4.16
16	3.93	3.85	3.99	3.71	4.01	3.89	3.89	3.06	2.01	3.91	4.40	4.13
17	3.93	3.84	3.98	3.70	3.98	3.92	3.89	3.01	2.04	3.89	4.31	4.14
18	3.92	3.83	3.97	3.73	3.95	3.92	3.87	2.97	2.04	3.90	4.29	4.13
19	3.92	3.82	3.96	3.87	3.94	3.91	3.84	2.91	2.01	4.02	4.24	4.11
20	3.91	3.83	3.94	3.94	3.92	3.90	3.81	2.86	1.98	4.36	4.21	4.08
21	3.91	3.82	3.92	3.93	3.92	3.88	3.79	2.80	1.99	4.62	4.22	4.07
22	3.90	3.82	3.92	3.92	3.92	3.86	3.76	2.75	2.01	4.41	4.22	4.05
23	3.89	3.81	3.91	3.91	3.91	3.83	3.73	2.70	2.00	4.20	4.31	4.04
24	3.89	3.80	3.90	3.90	3.91	3.81	3.70	2.63	1.97	4.12	4.30	4.02
25	3.89	3.78	3.89	3.90	4.08	3.78	3.67	2.57	2.02	4.09	4.22	4.01
26	3.89	3.76	3.89	3.89	4.24	3.75	3.63	2.53	2.05	4.11	4.17	4.34
27	3.89	3.74	3.89	3.88	4.18	3.72	3.59	2.46	2.27	4.08	4.20	4.61
28	3.89	3.72	3.88	3.87	4.08	3.69	3.57	2.40	2.45	4.15	4.29	4.40
29	3.91	3.68	3.88	3.88	4.03	3.66	3.55	2.33	2.57	4.32	4.28	4.22
30	3.93	3.64	3.88	3.89	---	3.63	3.52	2.28	3.46	4.29	4.18	4.15
31	3.93	---	3.87	3.90	---	3.59	---	2.22	---	4.15	4.12	---
MEAN	3.95	3.84	3.69	3.84	3.96	3.86	3.55	3.00	2.04	4.08	4.29	4.25
MAX	4.10	3.92	3.99	3.94	4.24	4.00	3.89	3.50	3.46	4.62	4.61	4.73
MIN	3.89	3.64	3.23	3.70	3.88	3.59	3.13	2.22	1.76	3.89	4.11	4.01





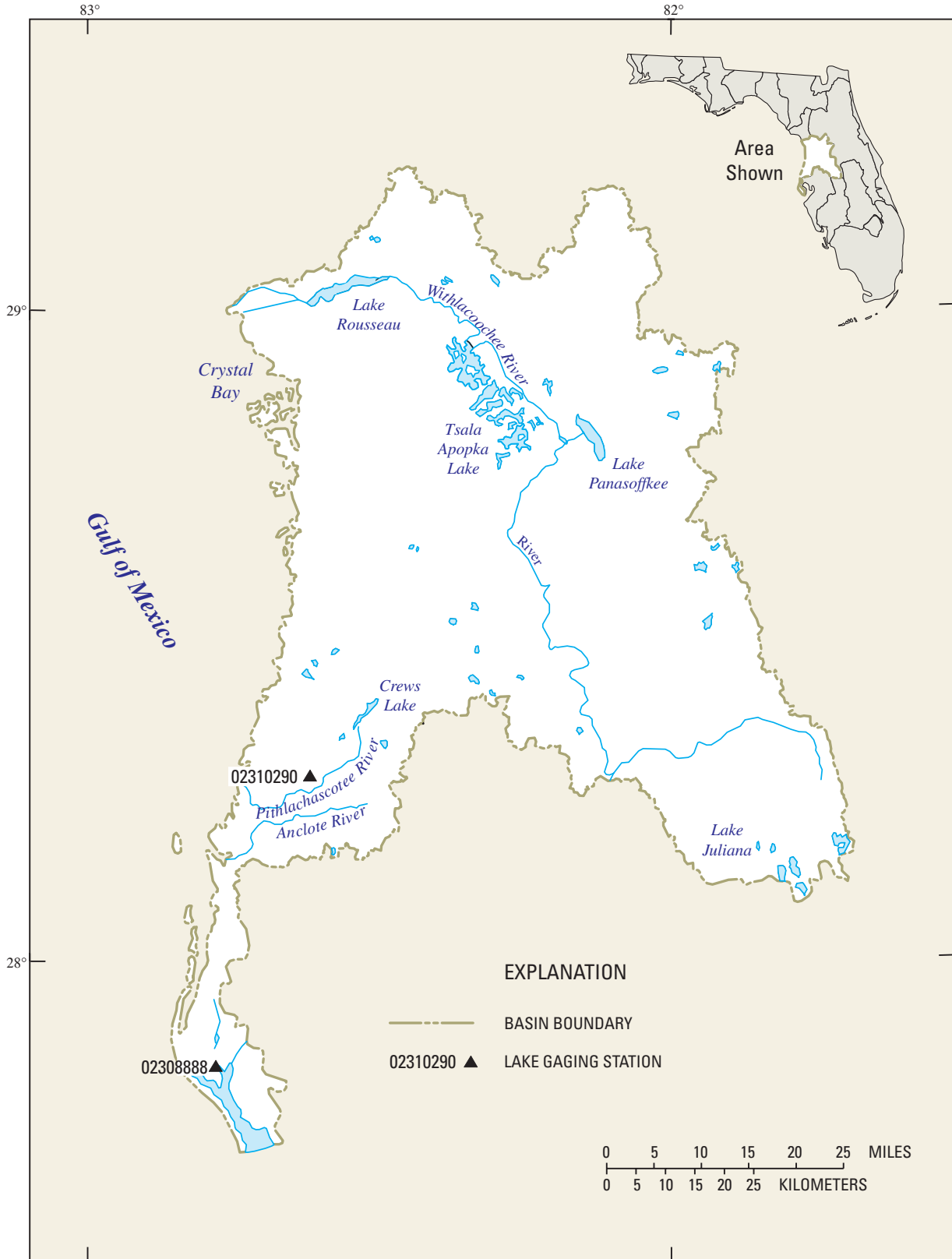


Figure 17.--Location of lake gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

02308888 SEMINOLE LAKE NEAR LARGO, FL.

LOCATION.--Lat 27° 50'20", long 82° 46'50" (1927 North American datum), in SE<sup>1</sup>/<sub>4</sub> sec.27, T.30 S., R.15 E., Pinellas County, Hydrologic Unit 03100207, on south shore of lake, 250 ft west of highway bridge across spillway channel, and 5.2 mi south of Largo.

SURFACE AREA.--684 acres (1.07 mi<sup>2</sup>).

DRAINAGE AREA.--6.94 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1950 to September 1973; October 1973 to March 1974 (fragmentary); April 1974 to September 1992; October 1992 to September 1994 (weekly), incomplete; October 1994 to current year (bimonthly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-79-3A: Surface area, drainage area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Pinellas County bench mark). Prior to Oct. 1, 1992, water-stage recorder.

REMARKS.--Outlet of lake is a 50 ft fixed concrete control structure with crest at average elevation of 5.0 ft. Greater part of inflow to Seminole Lake is regulated by pumps at north dam 3.0 mi above station. Pumpage at north dam represents natural flow of tributary above dam.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.22 ft, June 26, 1974; minimum observed, 2.80 ft, June 6, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5.15 ft, Aug. 19; minimum observed, 4.74 ft, Dec. 11.

ELEVATION ABOVE NGVD 1929, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	5.02	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	5.08	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	5.15	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	4.74	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	4.97	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	4.98	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	4.76	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	4.81	---	---	---	---	---	---

## 02310290 MOON LAKE NEAR NEW PORT RICHEY, FL.

LOCATION.--Lat 28° 17'07", long 82° 37'00" (1927 North American datum), in NW<sup>1</sup>/<sub>4</sub> sec.28, T.25 S., R.17 E., Pasco County, Hydrologic Unit 03100207, on southwest shore of lake, on private dock, 6.5 mi northeast of New Port Richey, and 6.5 mi north of Odessa.

SURFACE AREA.--98.2 acres (0.15 mi<sup>2</sup>).

DRAINAGE AREA.--0.37 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1965 to current year (thrice weekly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Jan. 10, 1973, at site 1,400 ft northwest on northwest shore of lake at same datum.

REMARKS.--Lake has no surface outlet.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 41.26 ft, Sept. 8, 28, 2004; minimum observed, 33.60 ft, June 20, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 41.26 ft, Sept. 8, 28; minimum observed, 38.69 ft, June 28.

ELEVATION ABOVE NGVD 1929, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.40	---	39.72	---	---	40.06	---	---	---	---	---	40.49
2	---	---	---	39.52	39.71	---	39.75	---	39.01	38.99	40.07	---
3	40.37	39.94	39.69	---	---	40.05	---	39.66	---	---	---	40.45
4	---	---	---	---	39.68	---	---	---	38.95	---	40.15	---
5	---	39.94	39.67	39.50	---	40.03	39.68	39.65	---	38.96	---	---
6	40.30	---	---	---	39.67	---	39.66	---	---	---	40.24	41.03
7	---	39.96	---	39.48	---	---	39.64	39.62	38.87	39.00	---	---
8	40.28	---	39.62	---	---	40.01	---	---	---	---	---	41.26
9	---	---	---	39.45	39.64	---	39.62	---	38.92	38.99	40.46	---
10	40.24	39.91	39.61	---	---	39.98	---	39.53	---	---	---	41.22
11	---	---	---	---	39.63	---	---	---	38.89	---	40.43	---
12	---	39.90	39.57	39.44	---	39.96	39.90	39.50	---	38.95	---	---
13	40.20	---	---	---	39.62	---	---	---	---	---	40.46	41.16
14	---	39.86	---	39.41	---	---	39.88	39.46	38.91	38.94	---	---
15	40.18	---	39.66	---	---	39.90	---	---	---	---	---	41.09
16	---	---	39.68	39.37	39.78	---	39.86	---	38.95	38.93	40.73	---
17	40.15	39.80	39.65	---	---	40.00	---	39.39	---	---	---	41.03
18	---	---	---	---	39.77	---	---	---	38.93	---	40.68	---
19	---	39.79	39.64	39.51	---	39.98	39.79	39.36	---	39.23	---	---
20	40.08	---	---	---	39.75	---	---	---	---	---	40.63	40.91
21	---	39.82	---	39.49	---	---	39.76	39.33	38.84	39.58	---	---
22	40.06	---	39.62	---	---	39.92	---	---	---	---	---	40.90
23	---	---	---	39.47	39.72	---	39.73	---	38.81	39.57	40.63	---
24	40.03	39.80	39.60	---	---	39.90	---	39.25	38.77	---	---	40.83
25	---	---	---	---	40.08	---	---	---	38.75	---	40.58	---
26	---	39.78	39.57	39.44	---	39.88	39.68	39.21	---	39.90	---	---
27	40.01	---	---	---	40.07	---	---	---	---	---	40.58	41.22
28	40.00	39.76	---	---	---	---	39.66	39.18	38.69	---	---	41.26
29	40.00	---	39.55	---	---	39.85	---	---	---	---	---	41.16
30	---	---	---	---	---	---	39.62	---	38.73	---	40.53	---
31	39.98	---	39.53	---	---	39.80	---	39.07	---	---	---	---

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## Conversion Factors

Multiply	By	To obtain
Length		
inch (in.)	$2.54 \times 10^1$	millimeter (mm)
	$2.54 \times 10^{-2}$	meter (m)
foot (ft)	$3.048 \times 10^{-1}$	meter (m)
mile (mi)	$1.609 \times 10^0$	kilometer (km)
Area		
acre	$4.047 \times 10^3$	square meter (m <sup>2</sup> )
	$4.047 \times 10^{-1}$	square hectometer (hm <sup>2</sup> )
	$4.047 \times 10^{-3}$	square kilometer (km <sup>2</sup> )
square mile (mi <sup>2</sup> )	$2.590 \times 10^0$	square kilometer (km <sup>2</sup> )
Volume		
gallon (gal)	$3.785 \times 10^0$	liter (L)
	$3.785 \times 10^{-3}$	cubic meter (m <sup>3</sup> )
	$3.785 \times 10^0$	cubic decimeter (dm <sup>3</sup> )
million gallons (Mgal)	$3.785 \times 10^3$	cubic meter (m <sup>3</sup> )
	$3.785 \times 10^{-3}$	cubic hectometer (hm <sup>3</sup> )
cubic foot (ft <sup>3</sup> )	$2.832 \times 10^{-2}$	cubic meter (m <sup>3</sup> )
	$2.832 \times 10^1$	cubic decimeter (dm <sup>3</sup> )
cubic-foot-per-second day [(ft <sup>3</sup> /s) d]	$2.447 \times 10^3$	cubic meter (m <sup>3</sup> )
	$2.447 \times 10^{-3}$	cubic hectometer (hm <sup>3</sup> )
acre-foot (acre-ft)	$1.233 \times 10^3$	cubic meter (m <sup>3</sup> )
	$1.233 \times 10^{-3}$	cubic hectometer (hm <sup>3</sup> )
	$1.233 \times 10^{-6}$	cubic kilometer (km <sup>3</sup> )
Flow		
cubic foot per second (ft <sup>3</sup> /s)	$2.832 \times 10^1$	liter per second (L/s)
	$2.832 \times 10^{-2}$	cubic meter per second (m <sup>3</sup> /s)
	$2.832 \times 10^1$	cubic decimeter per second (dm <sup>3</sup> /s)
gallon per minute (gal/min)	$6.309 \times 10^{-2}$	liter per second (L/s)
	$6.309 \times 10^{-5}$	cubic meter per second (m <sup>3</sup> /s)
	$6.309 \times 10^{-2}$	cubic decimeter per second (dm <sup>3</sup> /s)
million gallons per day (Mgal/d)	$4.381 \times 10^{-2}$	cubic meter per second (m <sup>3</sup> /s)
	$4.381 \times 10^1$	cubic decimeter per second (dm <sup>3</sup> /s)
Mass		
ton (short)	$9.072 \times 10^{-1}$	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

$$^{\circ}\text{F} = (1.8 \times ^{\circ}\text{C}) + 32$$

