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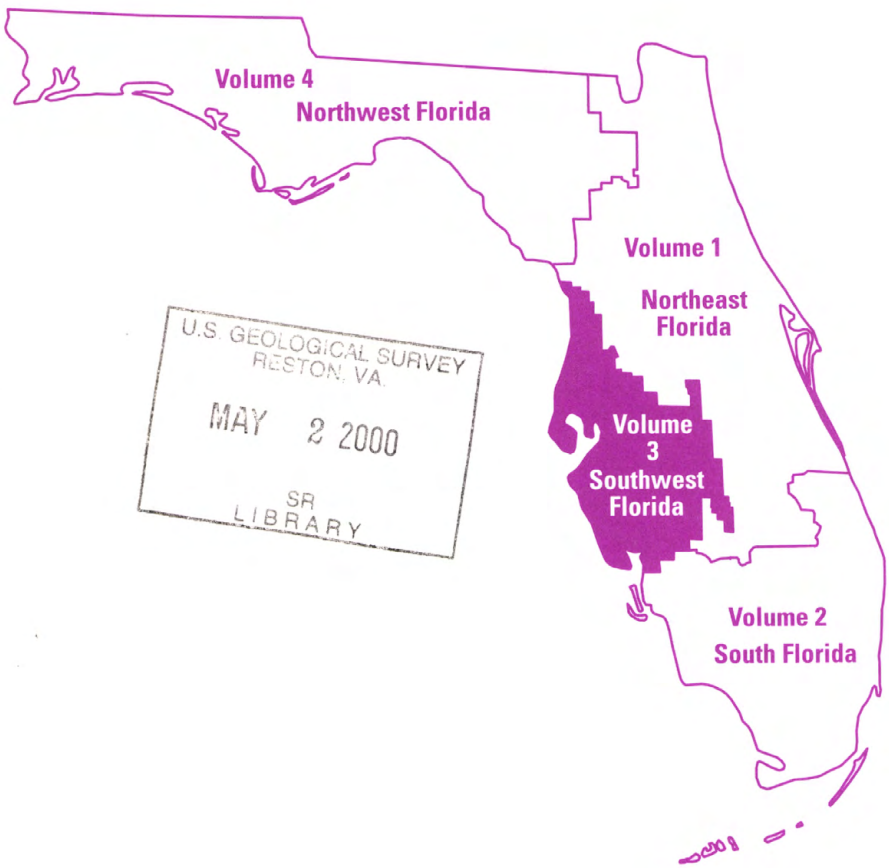
Water Resources Data
Florida
Water Year 1999

Volume 3A. Southwest Florida Surface Water

Water-Data Report FL-99-3A



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CALENDAR FOR WATER YEAR 1999

1998

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U.S. Department of the Interior
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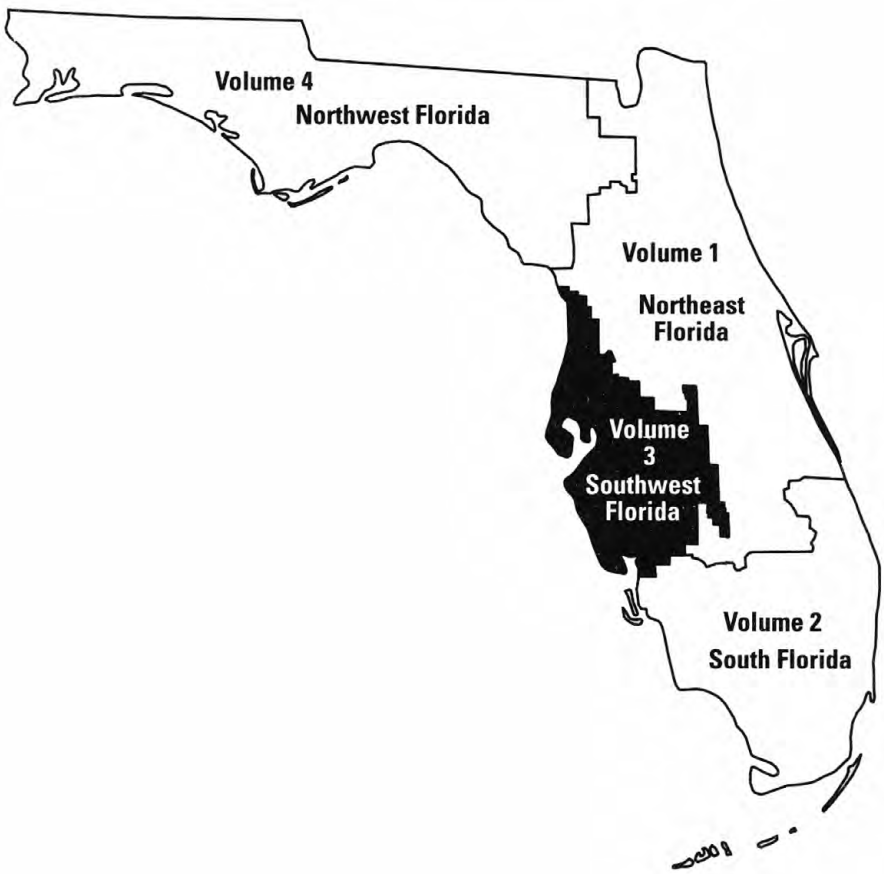
Water Resources Data Florida Water Year 1999

Volume 3A. Southwest Florida Surface Water

By J.E. Coffin and W.L. Fletcher

Water-Data Report FL-99-3A



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

UNITED STATES DEPARTMENT OF THE INTERIOR

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U. S. GEOLOGICAL SURVEY

Charles G. Groat, Director

Prepared in cooperation with the
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and with other agencies as listed
under cooperation

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Tallahassee, Florida 32301

2000

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 under the supervision of J.E. Coffin and W.L. Fletcher. 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 under the general supervision of C. R. Goodwin, District Chief, Florida.

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 *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	March 30, 2000	Annual- October 1, 1998 to September 30, 1999

4. TITLE AND SUBTITLE

Water Resources Data - Florida, Water year 1999
Volume 3A: Southwest Florida Surface Water

5. FUNDING NUMBERS

6. AUTHOR(S)

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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)

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8. PERFORMING ORGANIZATION REPORT NUMBER

USGS-WDR-FL-99-3A

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)

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Tallahassee, FL 32301

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

USGS-WDR-FL-99-3A

11. SUPPLEMENTARY NOTES

Prepared in cooperation with the state of Florida and other agencies.

12a. DISTRIBUTION / AVAILABILITY STATEMENT

No restriction on distribution. This report may be purchased from:
National Technical Information Center
Springfield, VA 22161

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

Water resources data for the 1999 water year in Florida consist of continuous or daily discharges for 354 streams, periodic discharge for 17 streams, continuous or daily stage for 121 streams, periodic stage for 1 stream, peak stage and discharge for 38 streams, continuous or daily elevations for 21 lakes, periodic elevations for 42 lakes; continuous ground-water levels for 408 wells, periodic ground-water levels for 1,715 wells, and quality-of-water data for 131 surface-water sites and 198 wells.

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 82 streams, periodic discharge for 13 streams, continuous or daily stage for 39 streams, peak stage and discharge for 7 streams, continuous or daily elevations for 6 lakes, periodic elevations for 25 lakes, and quality-of-water data for 75 surface-water sites.

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.

14. SUBJECT TERMS

*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.

15. NUMBER OF PAGES

391

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	

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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.]

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Analyses of samples collected at water-quality partial-record stations and miscellaneous sites 273
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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. Those stations with an asterick (*) after the station number are currently operated as crest-stage partial-record stations.

{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^2)	Period of Record
CHARLOTTE HARBOR AND COASTAL AREAS			
North Prong Alligator Creek near Punta Gorda, FL. (d)	02293390	8.46	1975
PEACE RIVER BASIN			
Peace Creek Drainage Canal near Alturas, FL. (d)	02293986	160	1947-71
(e)			1972-77
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
(e)			1972-73
Banana-Hancock Canal near Highland City, FL. (d)	02294405	18.8	1986-92
Hog Branch near Wauchula, FL. (d)	02295435	5.31	1969-75
Peace River at Wauchula, FL. (e)	02295607	808	1970-72
Oak Creek near Ona, FL. (d, e)	02295850	15	1981-84
Little Charley Bowlegs Creek near Crewsville, FL. (e)	02296180	21.2	1967-76
Little Charley Bowlegs Creek at SFL Rd near Sebring, FL. (e)	02296191	30.6	1965-77
Little Charley Bowlegs Creek at Cott Rd near Sebring, FL. (e)	02296207	38.1	1965-76
Little Charley Bowlegs Creek Abv Control near Sebring, FL. (e)	02296222	41.9	1970-77
Little Charley Bowlegs Creek near Sebring, FL. (d,e)	02296223	41.9	1952-83
West Fork Horse Creek near Myakka Head, FL. (d)	02297153	13.5	1992-94
Brushy Creek near Lily, FL. (d)	02297220	47.8	1992-95
Brandy Branch near Pine Level, FL. (d)	02297272	15.1	1992-95
Buzzard Roost Branch near Pine Level, FL. (d)	02297290	28.7	1992-95
Peace River near Fort Ogden, FL. (e)	02297340	1790	1964-65
Mossy Gully Tributary at St Hwy 70 near Arcadia, FL. (d)	02297733	6.64	1981
(e)			1973-81
Cow Slough near Arcadia, FL. (e)	02297875	14.4	1972-78

Discontinued surface-water discharge or stage-only stations.--Continued

Station name	Station number	Drainage area (mi^2)	Period of Record
MYAKKA RIVER BASIN			
Myakka River at SR 780 near Verna, FL. (d)	02298700	165	1989-91
Howard Creek near Sarasota, FL. (d)	02298760	20.0	1983-95
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
Myakka River at Control near Laurel, FL. (e)	02298880	253	1986-92
Windom Slough near North Port Charlotte, FL. (e)	270914082213700	---	1997
Myakka River near Laurel, FL. (e)	02298900	258	1985-92
Big Slough near Murdock, FL. (d)	02299470	92.5	1963-72
COASTAL AREA BETWEEN MYAKKA AND MANATEE RIVERS			
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
South Creek near Vamo, FL. (d)	02299737	15.4	1991-93
Catfish Creek near Osprey, FL. (d)	02299741	4.77	1992-93
Clower Creek at Vamo, FL. (d)	02299742	0.35	1991-93
MANATEE RIVER BASIN			
Phillippi Creek near Sarasota, FL. (d,e)	02299750	24	1963-68 1980-81
Manatee River at Devil's Elbow near Ft. Hamer, FL. (e)	02300009	139	1997-98
Manatee River at Fort Hamer, FL. (e)	02300021	216	1997-98
Tributary No. 1 to Cooper Creek near Lorraine, FL. (d)	02300036	4.3	1994-97
Williams Creek near Bradenton, FL. (d)	02300052	a2.7	1994-97
Gap Creek near Bradenton, FL. (d)	02300056	a7.2	1995-97
Glen Creek near Bradenton, FL. (d)	02300062	a2.5	1995-97
COASTAL AREA BETWEEN MYAKKA RIVER AND ALAFIA RIVERS			
Cow Pen Slough near Bee Ridge, FL. (d)	02299700	38	1963-66
Phillippi Creek near Bee Ridge, FL. (d)	02299780	31.1	1994-97
Phillippi Creek at Hayden, FL. (d)	02299807	53	1975-77

Discontinued surface-water discharge or stage-only stations.--Continued

Station name	Station number	Drainage area (mi^2)	Period of Record
COASTAL AREA BETWEEN MYAKKA RIVER AND ALAFIA RIVERS--Continued			
Whitaker Bayou at Sarasota, FL. (d)	02299864	7.0	1975-77
Manatee River near Bradenton, FL. (d)	02300000	87.1	1939-66
LITTLE MANATEE RIVER BASIN			
Alderman Creek near Ft. Lonesome, FL. (d,e)	02300096	9.4	1981-85
Carlton Branch near Wimauma, FL. (d,e)	02300130	7.86	1988-89
South Fork Little Manatee River near Wimauma, FL. (d,e)	02300300	38.4	1988-89
Dug Creek near Wimauma, FL. (d,e)	02300430	3.66	1988-89
Cypress Creek near Wimauma, FL. (d)	02300530	8.1	1981-91
Unnamed Tributary at Hwy 674 near Ft. Lonesome, FL. (d)	02300093	---	1983-87 1989-90
ALAFIA RIVER BASIN			
Mizell Creek near Keysville, FL. (d)	02301314	3.69	1975-76
Little Alafia River near Hopewell, FL. (d) (e)	02301350	8.65	1966-79 1974-82
Edward Medard Reservoir at Pleasant Grove, FL. (e)	02301368	19.6	1970-95
Turkey Creek near Durant, FL. (d) (e)	02301400	14.2	1966 1963-65
TAMPA BAY AND COASTAL AREAS			
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	---	1977-90
Tampa Bypass Canal at S-160 at Tampa, FL. (d,e)	02301802	29	1974-90
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) (e)	02306910	7.16	1981-87 1988-91
Upper Double Branch West Fork near Oldsmar, FL (e)	280228082384200	---	1994-96
Brooker Creek near Lake Fern, FL. (d)	02307323	a17	1970-94

Discontinued surface-water discharge or stage-only stations.--Continued

Station name	Station number	Drainage area (mi^2)	Period of Record
TAMPA BAY AND COASTAL AREAS--Continued			
Alligator Creek below Belcher Road at Clearwater, FL. (d)	02307668	3.67	1996
Alligator Creek below U.S. Highway 19 at Clearwater, FL. (d)	02307671	6.17	1982-87 1996
Alligator Creek Tributary at Clearwater, FL. (d)	02307672	.27	1986-87
Alligator Creek at Clearwater, FL. (d)	02307673	6.73	1980-87 1996
Allen Creek near Largo, FL. (d)	02307731	1.88	1947-51
HILLSBOROUGH RIVER BASIN			
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	---	1979-87
Hillsborough River Below Crystal Springs, FL. (d,e)	02302010	---	1984
New River near Zephyrhills, FL. (d) (e)	02303100	15	1964-74 1979-81
Westside Canal at Plant City, FL. (d)	02303174	2.0	1985-86
Pemberton Creek at Wallace Branch Road near Plant City, FL. (d)	02303180	7.23	1992-94
Baker Creek near Thonotosassa, FL. (e)	02303271	58	1971-74
Flint Creek near Thonotosassa, FL. (d)	02303300	60	1971-91
Trout Creek Tributary near Worthington Gardens, FL. (e)	02303344	---	1974-81
Morris Bridge Backwash Pond Outflow near Tampa, FL. (d,e)	02303351	---	1982-88
Hillsborough River at STR S-155 near Thonotosassa, FL. (e)	02303354	410	1982-90
Cypress Creek near Darby, FL. (d)	02303358	7.11	1975
Cypress Creek near Drexel, FL. (d)	02303408	73.2	1977-81
Hanna Lake Outlet near Lutz, FL. (d)	02303500	.74	1946-51
Hillsborough River at Fowler Avenue near Temple Terrace, FL. (e)	02304000	630a	1961-98
Hutchins Lake Outlet near Lutz, FL. (d)	02305000	2.7	1946-52
Drainage Ditch at Bearss Avenue near Sulphur Springs, FL. (d)	02305500	12	1946-56
Curiosity Creek near Sulphur Springs, FL. (d)	02305780	1.37	1981-88
Drainage Ditch at Florida Ave. and Atlantic Blvd., near Sulphur Springs, FL. (e)	02305800	14	1964-66

Discontinued surface-water discharge or stage-only stations.--Continued

Station name	Station number	Drainage area (mi^2)	Period of Record
COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER			
Saint Joe Creek at Lealman, FL. (d)	02308931	2.00	1990-91
Saint Joe Creek at Pinellas Park, FL. (d)	02308935	2.55	1984-91
Anclote River near Odessa, FL. (d)	02309980	68.1	1983-94
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
Chassahowitzka River above Johnson Creek near Chassahowitzka, FL (e)	284254082362300	---	1997-98
Homosassa River at Homosassa, FL. (e)	02310700	---	1997-98
COASTAL AREA BETWEEN HILLSBOROUGH RIVER AND WITHLACOOCHEE RIVER			
Old Tampa Bay at Rocky Point at Tampa, FL. (e)	02306100	---	1971-74
Brooker Creek near Odessa, FL. (d)	02307243	10	1946-56
(e)			1971-74
Lake Tarpon Sink near Tarpon Springs, FL. (e)	02307462	---	1971-73
Lake Tarpon Canal at S-551 near Oldsmar, FL. (d,e)	02307498	60	1974-90
Old Tampa Bay at Safety Harbor, FL. (e)	02307578	---	1963-72
Alligator Creek at Safety Harbor, FL. (d,e)	02307697	9.0	1949-74
			1979
Seminole Lake Outlet near Largo, FL. (d)	02308889	14	1950-71
Unnamed Lake Outlet at St. Petersburg, FL. (e)	02309011	0.18	1972-73
Innisbrook Canal near Crystal Beach, FL. (e)	02309502	1.5	1972-74
Anclote River near Tarpon Springs, FL. (e)	02310166	104	1971-73
Bayou at Tarpon Springs, FL. (e)	02310200	---	1971-73
Masaryktown Canal at US 41 near Masaryktown, FL. (e)	02310225	---	1974-75
Pithlachascotee River at Rowan Road near New Port Richey, FL. (e)	02310304	184	1983-86
Pithlachascotee River at Port Richey, FL. (e)	02310310	195	1971-74
Bear Creek near Hudson, FL. (d)	02310350	22	1965-70

a Approximately
--- Not determined

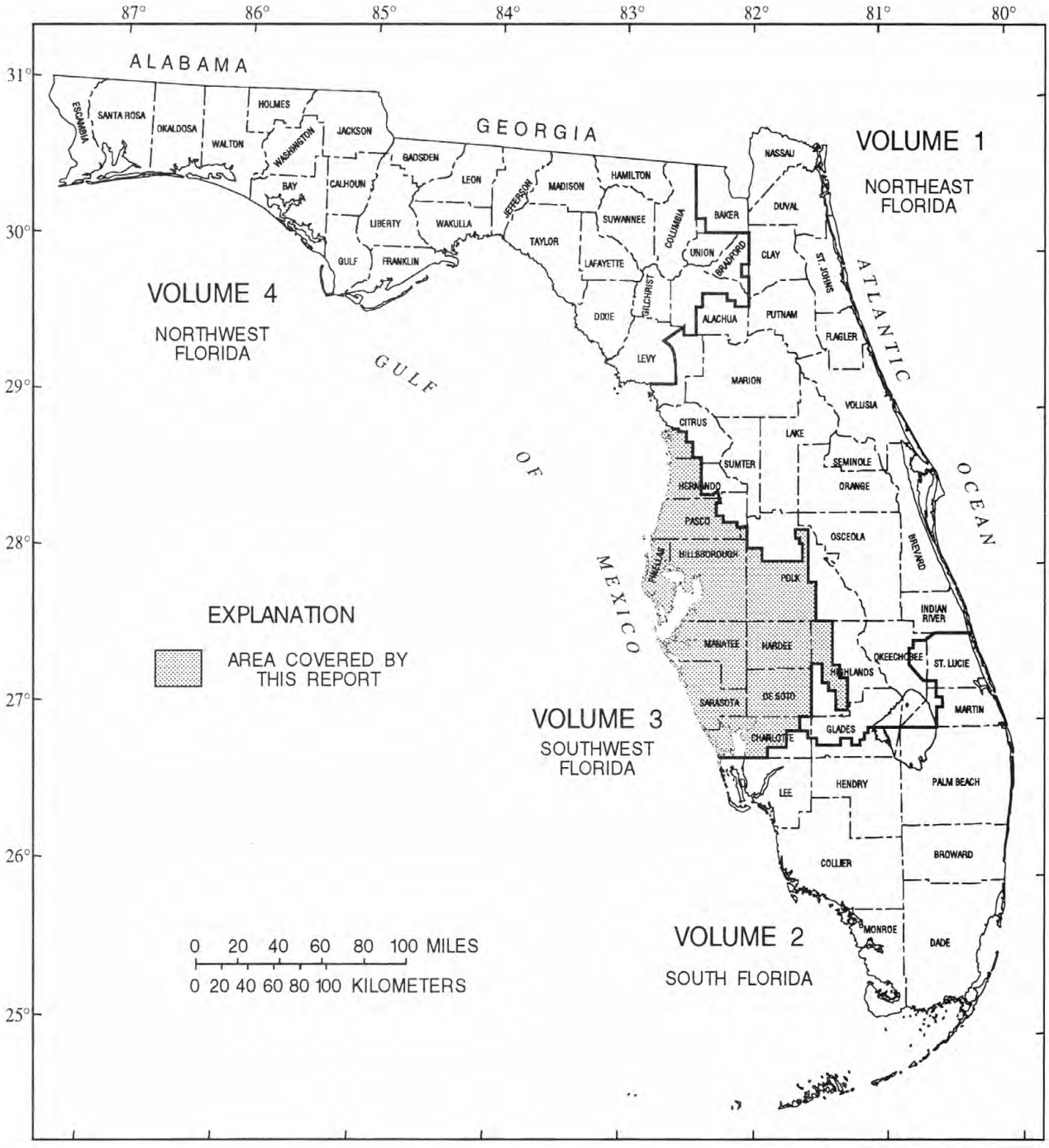


Figure 1.--Geographic area covered by this report.

WATER RESOURCES DATA FOR FLORIDA, 1999
Volume 3A: Southwest Florida Surface Water

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 82 gaging stations; periodic discharge for 13 streams; continuous daily stage at 39 stream sites; peak stage and discharge at 7 stream sites; continuous daily elevations at 6 lakes; periodic elevations at 25 lakes; and water quality at 75 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, 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-99-3A." 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 District Office at the address given on the back of the title page or by telephone (850) 942-9500.

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:

Manatee County Department of Environmental Management
Southwest Florida Water Management District
Peace River/Manasota Regional Water Supply Authority
Tampa Bay Water
County of Hillsborough
North Port Water Control District
County of Manatee
County of Pinellas
County of Sarasota
City of Bradenton
City of Sarasota
City of Tampa

SUMMARY OF HYDROLOGIC CONDITIONS

During the 1999 water year, rainfall at 11 National Oceanic and Atmospheric Administration (NOAA) stations in west-central Florida (fig. 2) ranged from 32.87 inches at Inverness in Citrus County (site 12) to 61.79 inches at Archbold Biological Station in Highlands County (site 20). The 1999 water year total rainfall was higher at three long-term stations and lower at eight long term stations than the 1961-90 normal. Total rainfall at the 11 stations ranged from 20.53 inches below normal at Inverness (site 12) to 12.10 inches above normal at Archbold Biological Station (site 20).

Monthly mean discharge for the Anclote River near Elfers (fig. 2, site 1) is shown in figure 3. The 1999 water year monthly mean discharges at this site were above median flow through October, decreased below the median through April, approached the median through May, then remained below the median through September. The 1999 water year annual mean discharge, 12.9 ft^3/s, was 20 percent of the mean for the period of record, 64.9 ft^3/s.

At Hillsborough River near Zephyrhills (fig. 2, site 2), monthly mean discharge was above the median flow through October, decreased below the median discharge through mid-May, increased above the median through mid-June, then decreased below the median through September (fig. 4). The 1999 water year annual mean discharge, 110 ft^3/s, was 45 percent of the mean for the period of record, 247 ft^3/s.

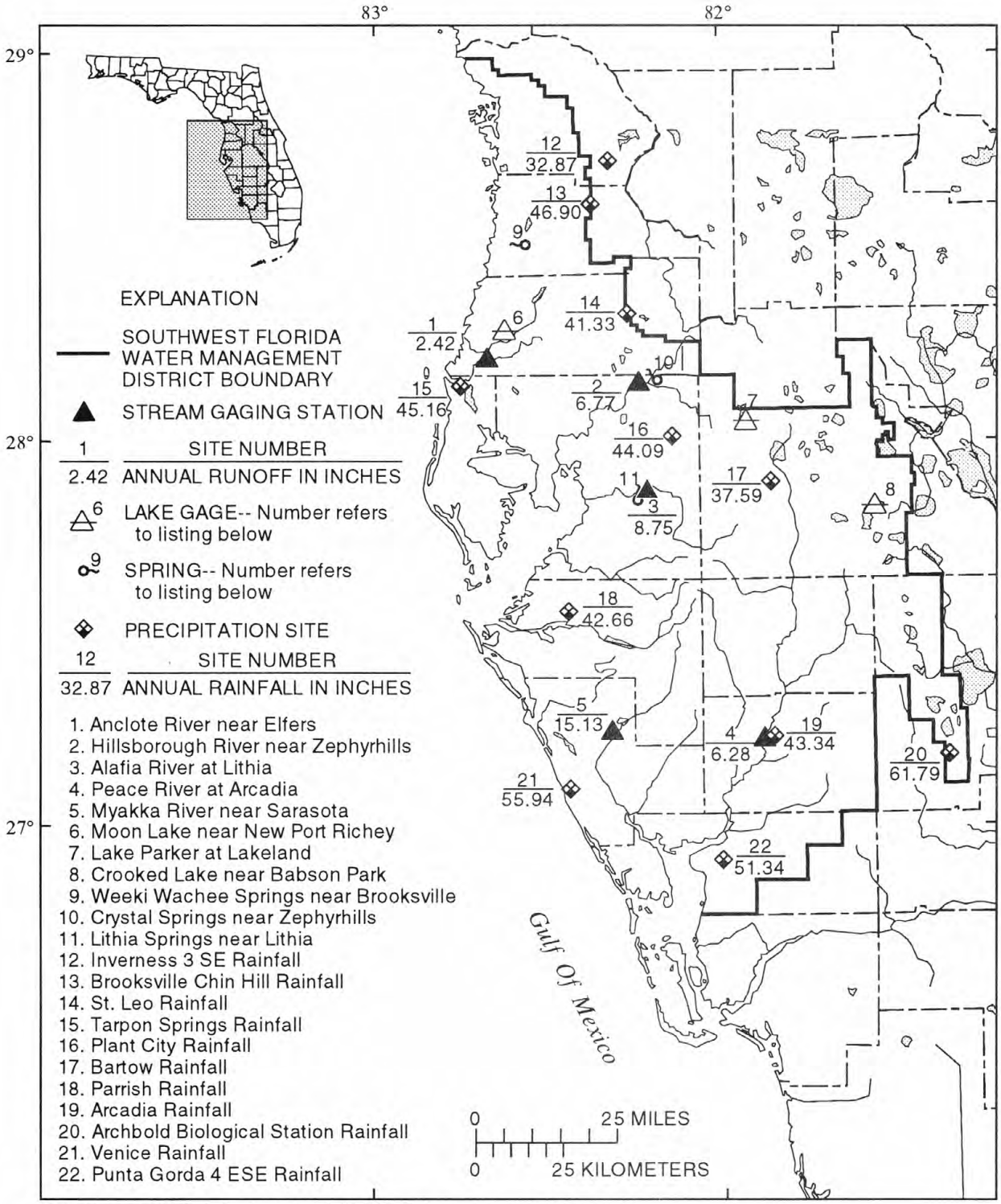
Monthly mean discharge at Alafia River at Lithia (fig. 2, site 3) was above or equal to the median discharge through December, decreased below the median through mid-May, increased above the median through mid-June, then decreased below the median through September. The 1999 water year annual mean discharge, 216 ft^3/s, was 63 percent of the mean for the period of record, 340 ft^3/s.

Monthly mean discharge at Peace River at Arcadia (fig. 2, site 4) was above the median discharge through late November, then decreased below the median through late January, increases slightly above median discharge through mid-January, decreased below the median through late May, increased slightly above the median through late June, then decreased below the median through September (fig. 6). The 1999 water year annual mean discharge, 632 ft^3/s, was 59 percent of the mean for the period of record, 1,078 ft^3/s.

At Myakka River near Sarasota (fig. 2, site 5), monthly mean discharge remained above the median discharge through mid-February, decreased below the median through mid-May, then increased above the median through September (fig. 7). The 1999 water year annual mean discharge, 249 ft^3/s, was 98 percent of the mean for the period of record, 254 ft^3/s.

Several large springs discharge into streams in the southwest Florida area. Weeki Wachee Springs near Brooksville (fig. 2, site 9) 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 relationship between artesian pressure at a nearby well and spring flow. Five measurements made during the 1999 water year ranged from 136 ft^3/s on June 6 to 200 ft^3/s on October 29. The average of the 513 measurements made through the 1999 water year is 172 ft^3/s. Crystal Springs near Zephyrhills (fig. 2, site 10) flows into the Hillsborough River upstream from the gaging station near Zephyrhills. The average of the 444 measurements made through the 1999 water year is 55.4 ft^3/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 37 ft^3/s on May 20 to 52 ft^3/s on December 3, was from 2 to 3 times the flow of the Hillsborough River above the springs. Flow from Lithia Springs near Lithia (fig. 2, site 11) 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. Five measurements of Lithia Springs made during the 1999 water year ranged from 31 ft^3/s on May 21 to 53 ft^3/s on December 3. The average of 225 measurements made since 1934 is 44.6 ft^3/s.

Moon Lake in Pasco County (fig. 2, site 6), Lake Parker in Polk County (fig. 2, site 7), and Crooked Lake in Polk County (fig. 2, site 8) are long-term stations 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 through February, then decreased below the median and remained there for the remainder of the water year. The 1999 water year annual mean stage, 38.47 ft above sea level, was slightly higher than the mean for the period of record, 38.34 ft above sea level. Monthly mean lake stage in Lake Parker at Lakeland (fig. 9) was above the median for the water year except for March through mid-May. The 1999 annual mean stage, 130.31 ft above sea level, was above the mean for the period of record, 130.02 ft above sea level. Monthly mean lake stage in Crooked Lake near Babson Park (fig. 10) was below the median for the entire water year. The 1999 annual mean stage, 117.25 ft above sea level, was above the mean for the period of record, 115.76 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.

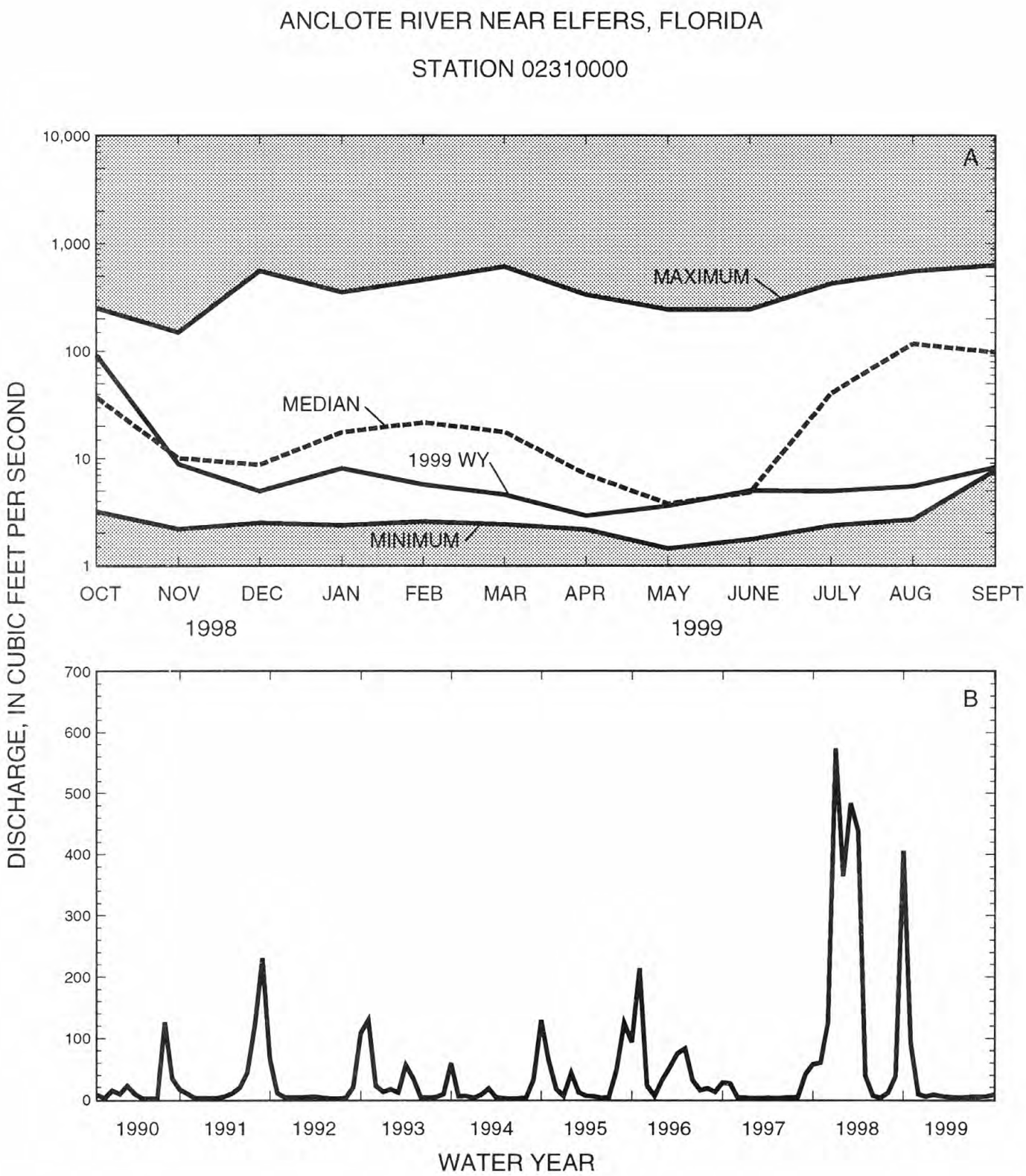


Figure 3.--Anclote River near Elfers (A) 1999 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1990-99.

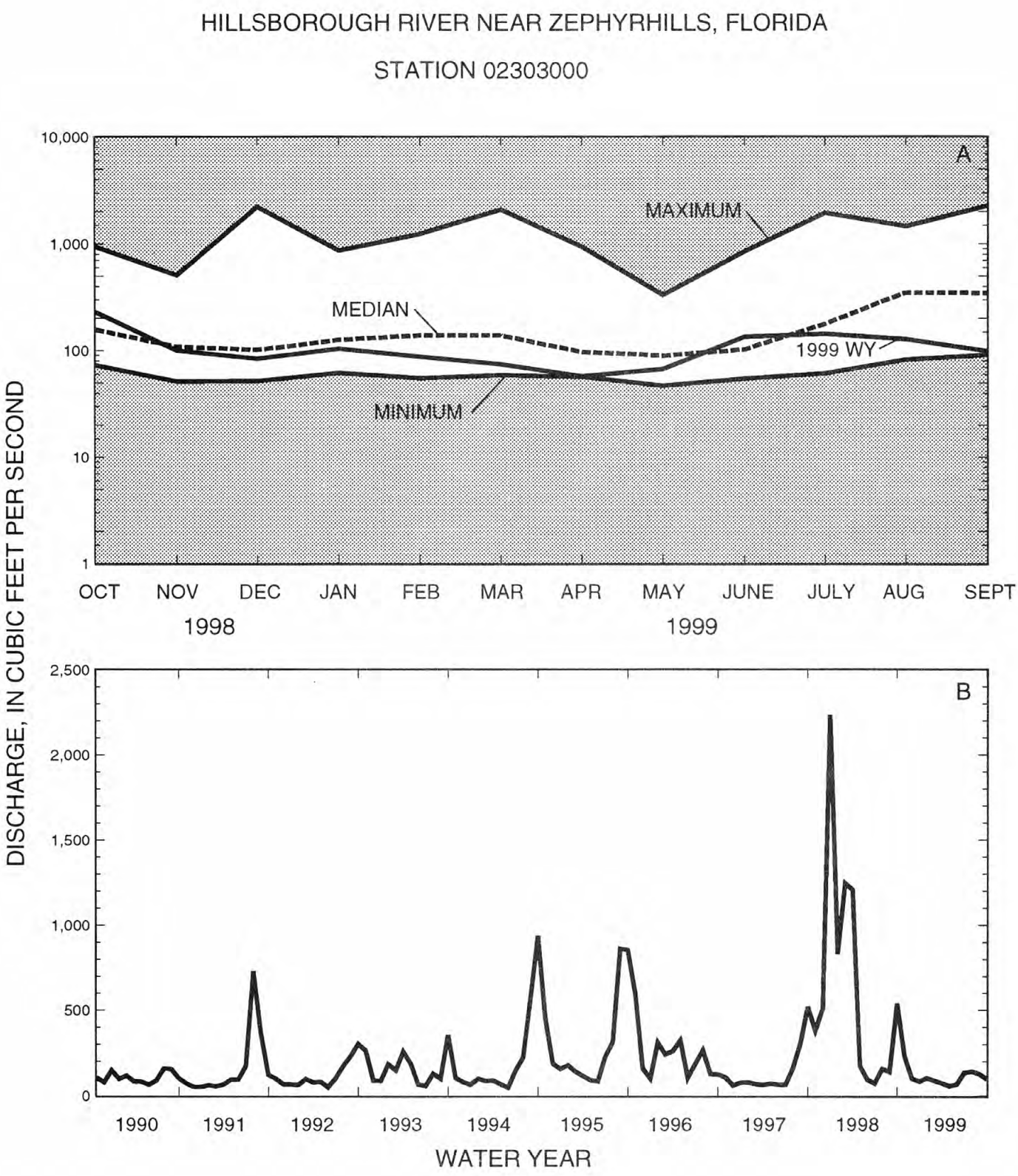


Figure 4.--Hillsborough River near Zephyrhills (A) 1999 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1990-99.

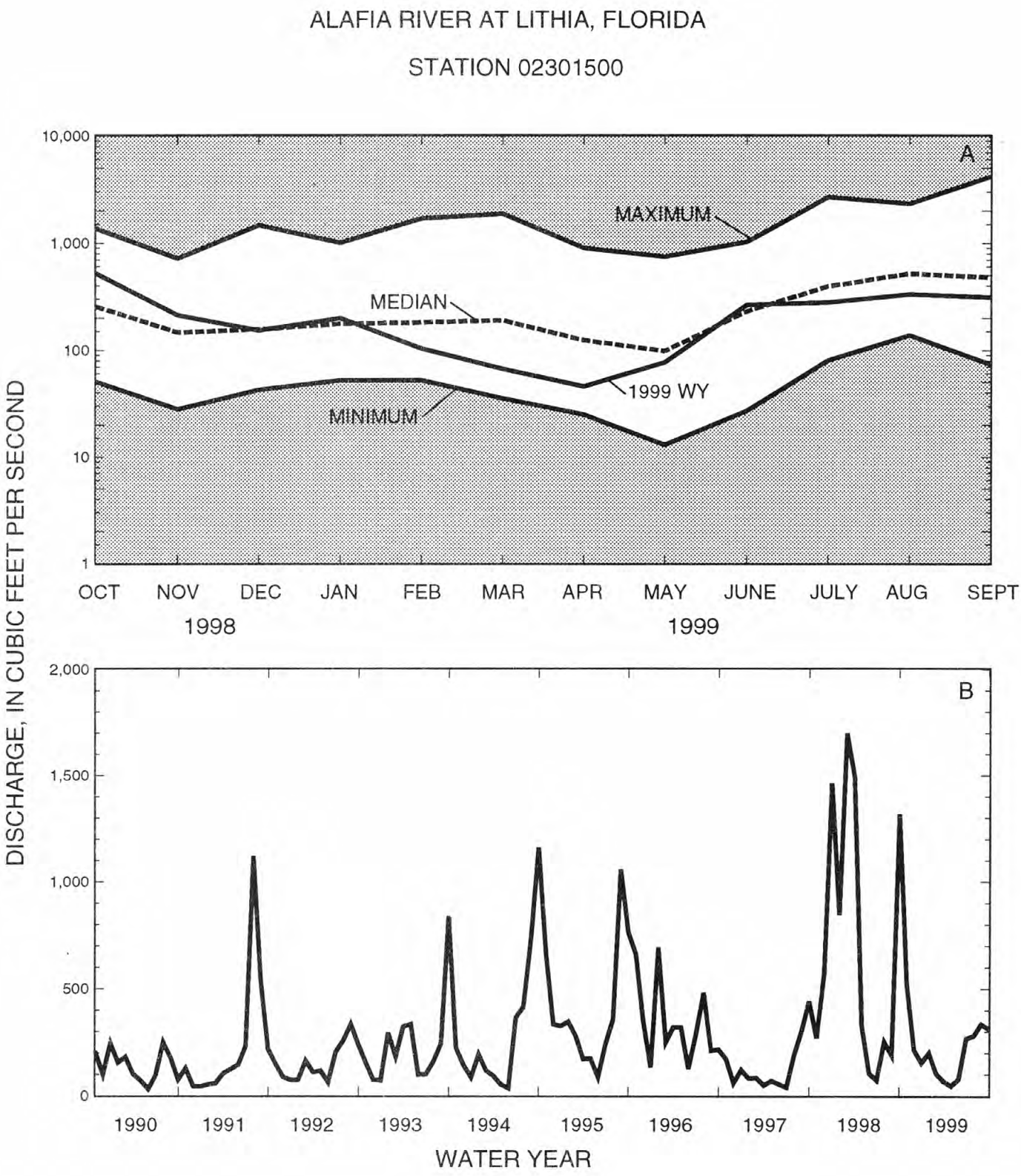


Figure 5.--Alafia River at Lithia (A) 1999 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1990-99.

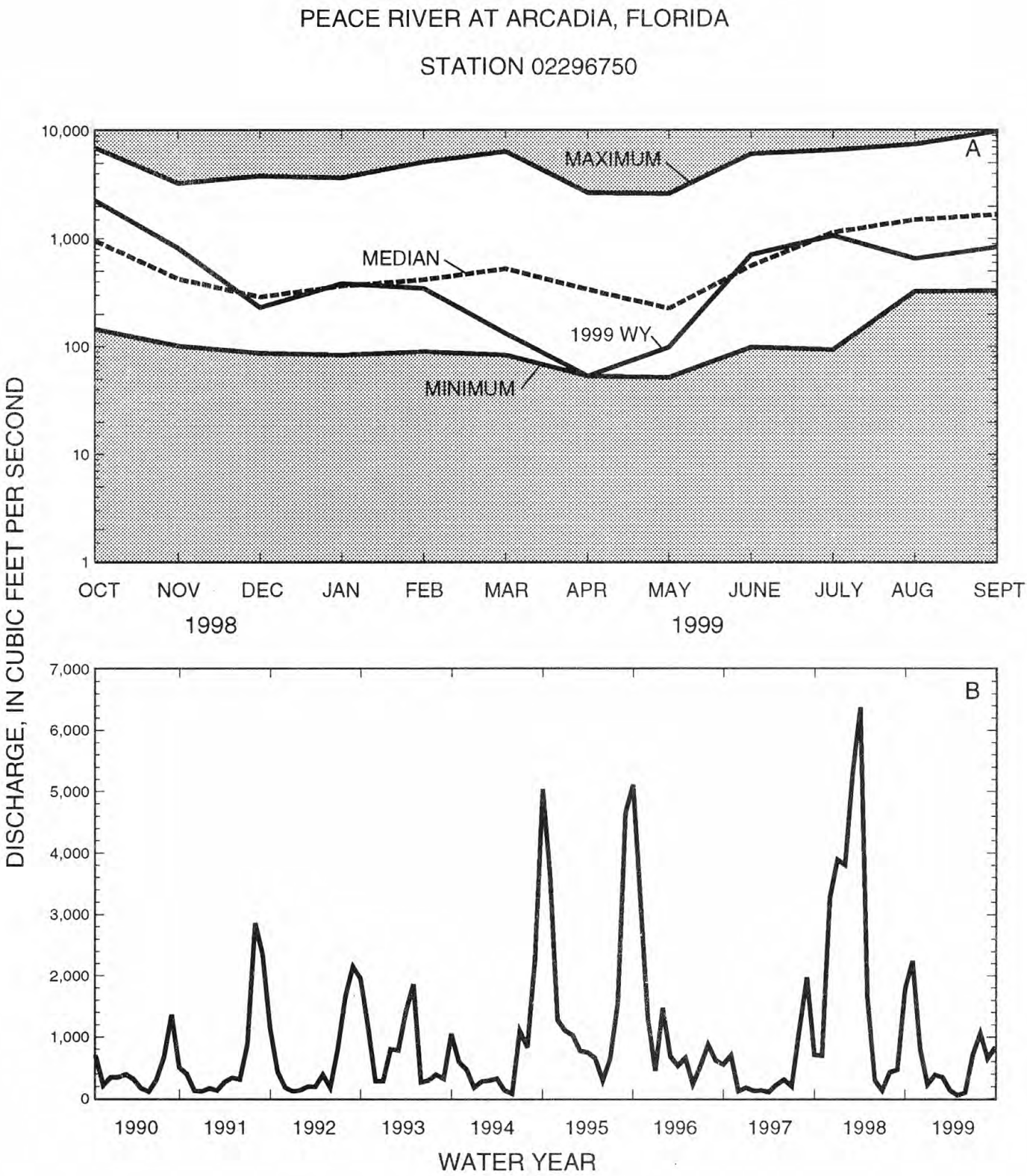


Figure 6.--Peace River at Arcadia (A) 1999 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1990-99.

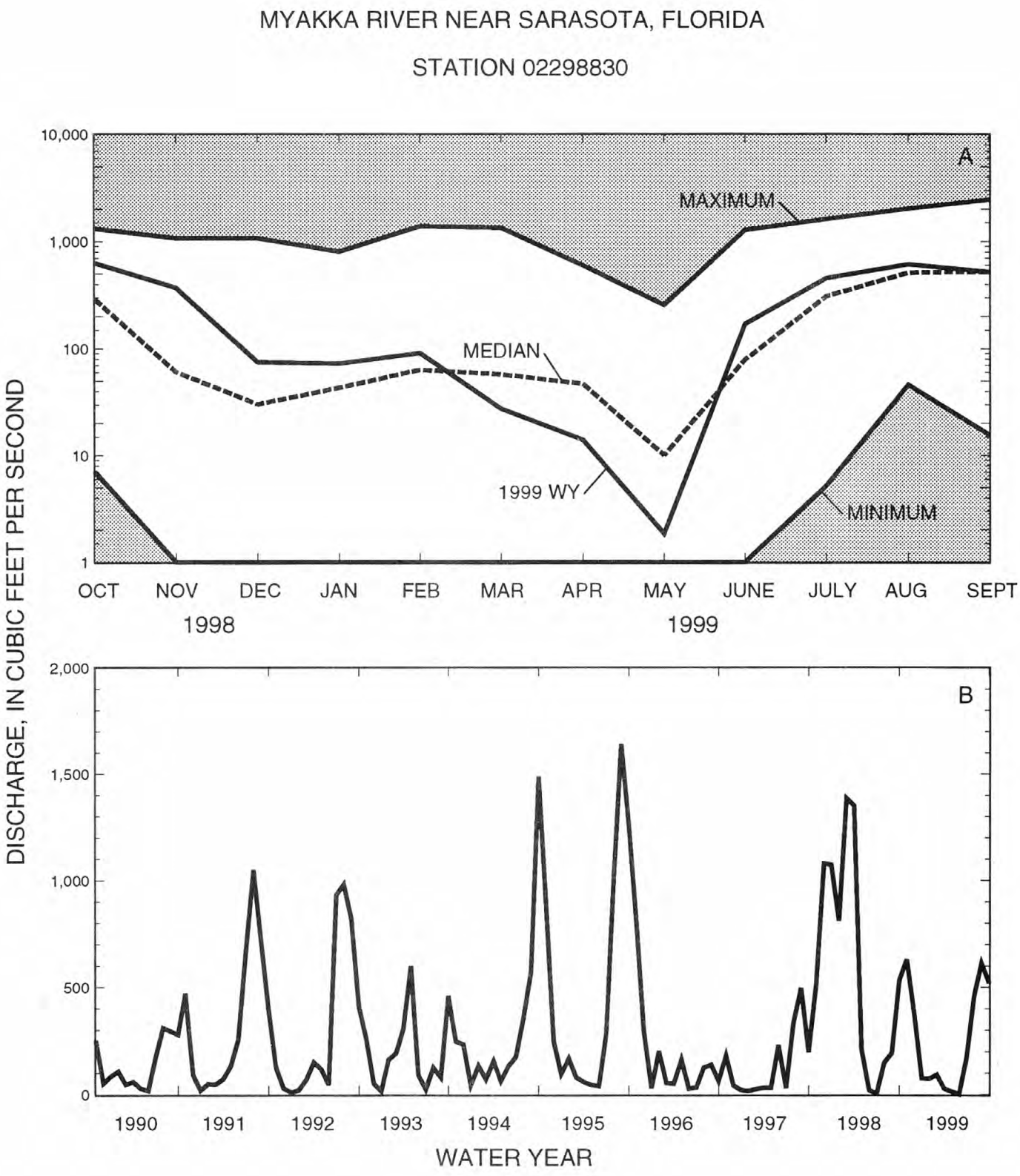


Figure 7.--Myakka River near Sarasota (A) 1999 monthly mean discharge compared to the maximum, median, and minimum monthly mean discharge for the period of record, and (B) the monthly mean discharge for the period 1990-99.

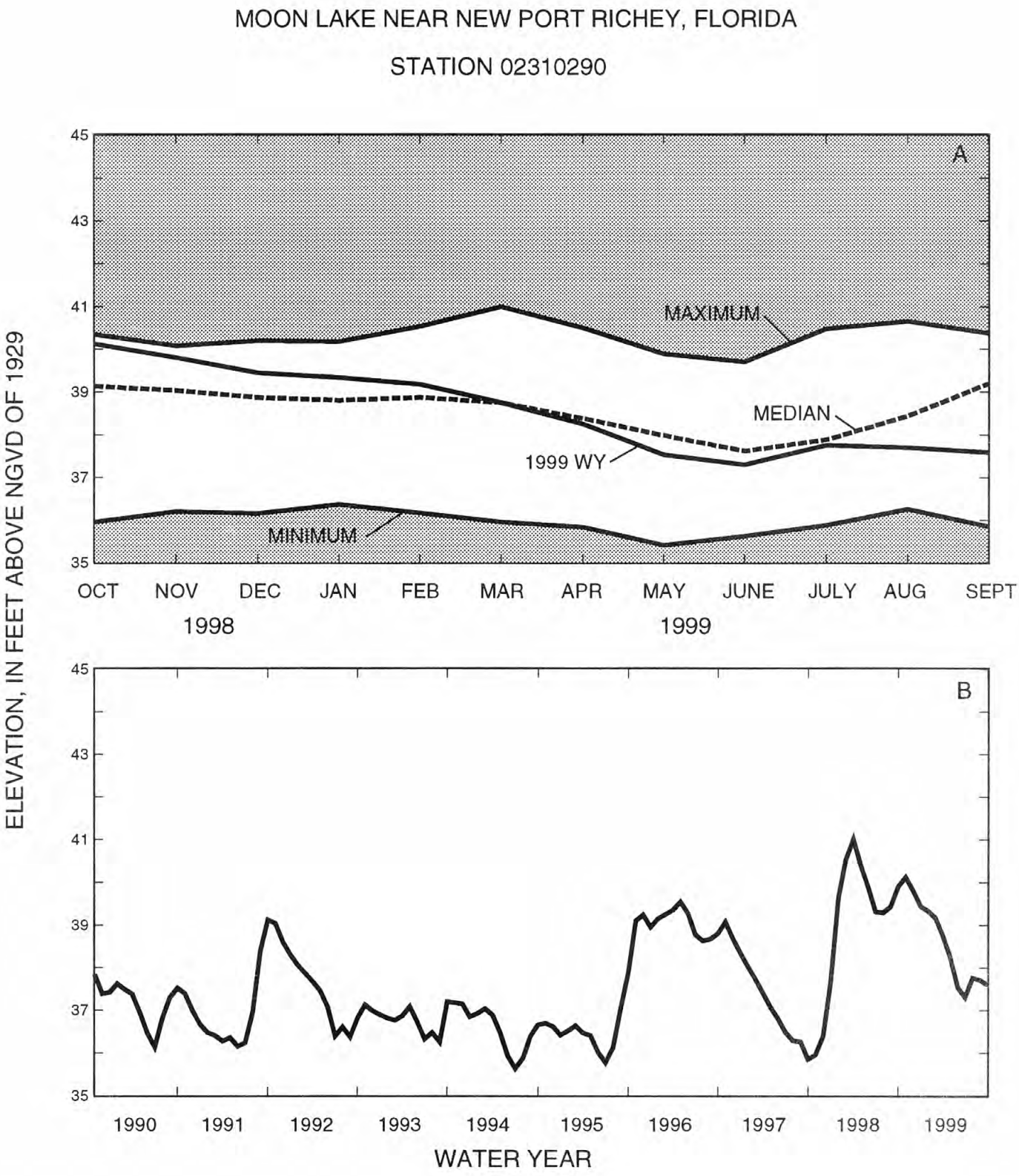


Figure 8.--Moon Lake near New Port Richey (A) 1999 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1990-99.

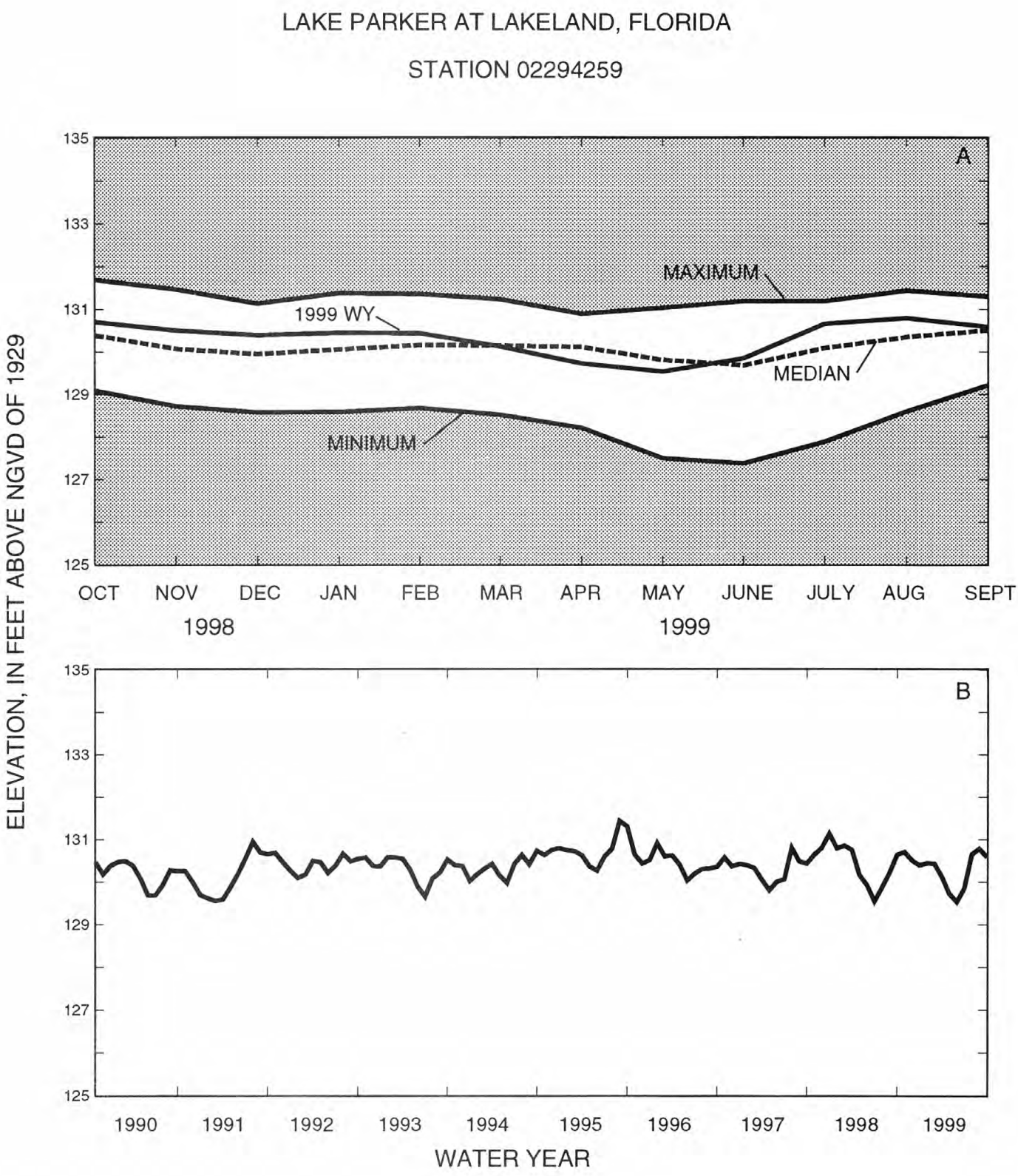


Figure 9.--Lake Parker at Lakeland (A) 1999 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1990-99.

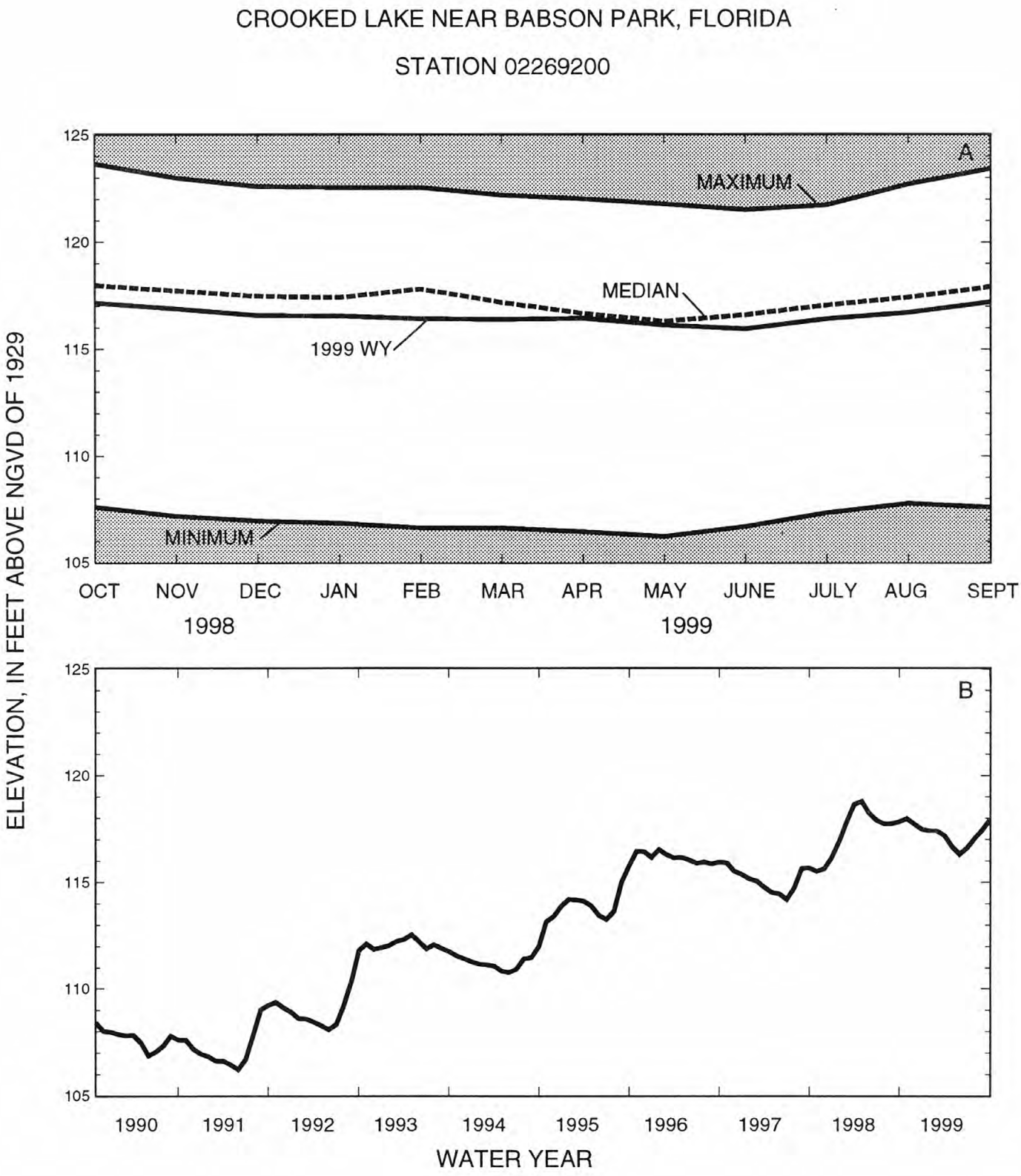


Figure 10.--Crooked Lake near Babson Park (A) 1999 monthly mean stage compared to the maximum, median, and minimum monthly mean stage for the period of record, and (B) the monthly mean stage for the period 1990-99.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. 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 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 Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization 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.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of over 200 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NO_x scheduled to begin in 2000.

Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP/NTN Coordinator, Illinois State Water Survey, 2204 Griffith Dr., Champaign, IL 61820.

Data from the network, as well as information about individual sites, are available through the world wide web at:

http://nadp.sws.uiuc.edu

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey 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; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 60 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 will be 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 decision making by water-resources managers 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 is available through the world wide web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

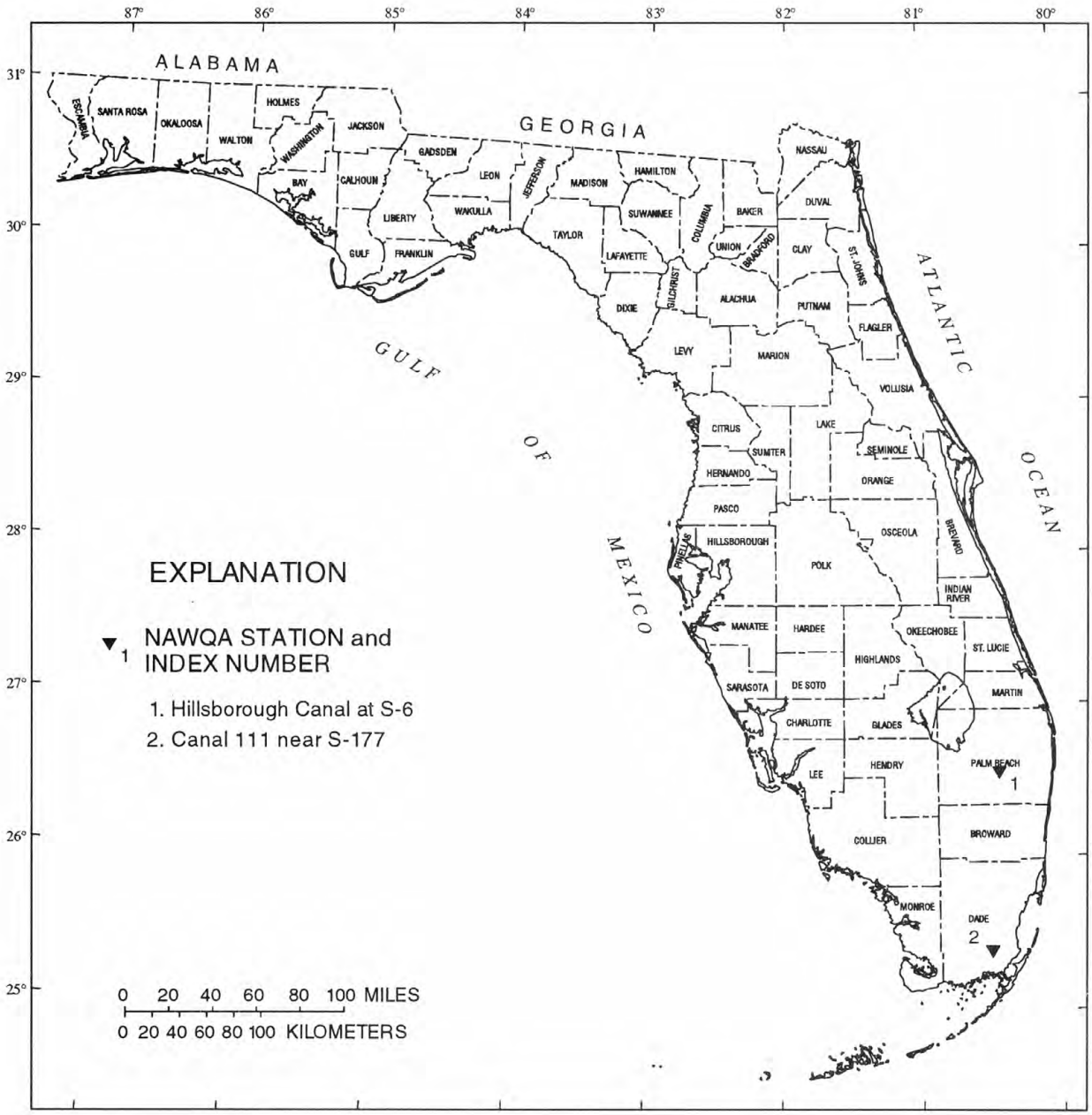


Figure 11.--NAWQA stations in the State of Florida.

EXPLANATION OF THE RECORDS

The surface-water records published in this report are for the 1999 water year that began October 1, 1998, and ended September 30, 1999. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs; water level and water quality data for estuaries; and water-quality data for surface water. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The system used by the U.S. Geological Survey to assign identification numbers for surface-water stations is based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for surface-water stations where only miscellaneous measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to downstream order. In assigning station numbers, 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 made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight- or nine-digit number for each station, such as 02335500, which appears just to the left of the station name, includes the two-digit Part number "02" plus the six- or seven -digit downstream-order number "335500." The Part number designates the major river basin; for example, Part "02" is the South Atlantic slope and Eastern Gulf of Mexico basins.

Latitude-Longitude System

The identification numbers for miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure below.)

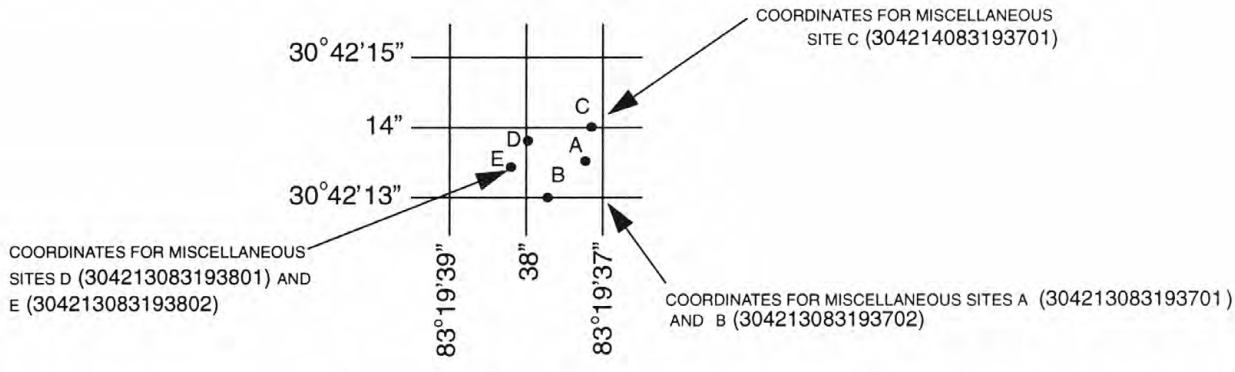


Figure 12.--System for numbering miscellaneous sites (latitude and longitude)

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges may be computed for any time, or any period of time, during the period of record. Complete records of lake elevations, similarly, are those for which stage may be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, or daily or weekly observations,

but need not be. Because daily mean discharges and lake elevations commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as "Crest-stage partial records," or "Low- flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and partial-record stations for which data are given in this report are shown in figures preceding each sub-basin.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily mean discharges.

Continuous records of stage are obtained with electronic data loggers that record stage values at selected time intervals. Measurements of discharge are made with current meters using methods adopted by the Geological Survey as a result of experience accumulated since 1880. These methods are described in standard textbooks, Water-Supply Paper 2175, and the U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI's), Book 3, Chapter A1 through A19 and Book 8, Chapters A2 and B2. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for standards (ISO).

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step- backwater techniques.

Daily mean discharges are computed using the trapezoidal method (Bartholoma, 1997). The trapezoidal method is a mathematical integration of the hydrograph. Past methods of computing daily mean values include the point-intercept or increment mean methods (Rentz, 1982). If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relations that discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This 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 set at some distance from the base gage. At some stations the 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.

Another method used to compute discharge at stations affected by backwater is the velocity/deflection meter method. In addition to continuous records of stage, continuous records of index velocity are made. Stage -area and index velocity - mean velocity relation curves are determined from recorded values and from periodic discharge measurements. Discharge is calculated from these curves using the basic flow equation:

$$Q = AV,$$

where

Q = discharge

A = area of the cross section, and

V = mean velocity of the cross section.

For some gaging stations, there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute discharge or contents. This happens when the recording device stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, "Data Presentation" (REMARKS paragraph) and "Identifying Estimated Daily Discharge."

Data Presentation

The records published for each gaging station consist of two parts, the manuscript or station description and the data table for the current water year. The manuscript provides, under various headings, descriptive information, such as station location; drainage area; period of record; average discharge; historical extremes; 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. The following comments clarify information presented under the various headings of the station description.

LOCATION.--Information on location is obtained from the most accurate maps available. The location of the gage 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 indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time when the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.--Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to National Geodetic Vertical Datum of 1929 (see Definition of Terms), 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 record will be flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") The remarks paragraph is used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the Geological Survey by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.--Included here is information concerning 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 U.S. Geological Survey.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published 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 offices whose addresses are given on the back of the title page of this report to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because 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 skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, AND EXTREMES FOR CURRENT YEAR have been deleted for most stations and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data table of daily mean values

The daily table 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 average flow in cubic feet per second for the month, and the lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also is usually expressed in cubic feet per second per square mile (line headed "CFSM"); or in inches (line headed "IN."); or in acre-feet (line headed "AC- FT"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion 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 contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "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 figures. 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. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be 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 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 record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be 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 this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistic table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

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 and date for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge and date 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.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous peak discharge occurring for the water year or for the designated period. In some instances a major flood peak might take place just prior to the end of the previous water year, causing the maximum instantaneous discharge for the following (current) water year to be on October 1 during the recession of that previous year's peak. In this case (where a major flood event spans two water years), the instantaneous peak flow listed will be from the next largest independent event during the following water year (instantaneous peak flows stored in the District's peak flow files for consecutive years cannot be from the same flood event). Note that other instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria.

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous peak stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information. See pertinent remarks under INSTANTANEOUS PEAK FLOW concerning events that span two water years.

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 equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

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

Inches (INCHES) indicates 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 is a table of annual maximum stage and discharge at crest-stage stations, and the second is a table of 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 generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some 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 either by flagging individual daily values with the letter symbol "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of their true values; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second for values less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures for more than 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

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, figures 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 Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables is on file in the Tampa Subdistrict office of the Florida District. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of the unpublished information or on the results of statistical analyses of the published records may be obtained from the offices whose addresses are given on the back of the title page of this report.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream- gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may 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 continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once 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 continuing or partial-record station where random 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 "continuing records," as used in this report, and "continuous recordings," which refers to a continuous graph or a series of discrete values collected at short intervals and recorded using an electronic data logger. 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.

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

Water-quality data must represent the in-situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on-site when the samples are taken. To assure that measurements made in the laboratory also represent the in-situ water, carefully prescribed procedures need to 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 detailed in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, A4 and TWRI Book 9. These references are listed in the PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS section of this report. These methods are consistent with ASTM standards and generally follow ISO standards.

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 through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors which must be evaluated by the collector.

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 electronic monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon 15-minute interval or hourly values for the day of record. Mean values are not reported for sites affected by tide. More detailed records (15-minute or hourly values) may be obtained from the Geological Survey Florida office whose address is given on the back of the title page of this report.

Water Temperature

Water temperatures are measured at most of the water-quality 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 Florida 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 sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been 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. Methods used in the computation of sediment records are described in the TWRI Book 3, Chapters C1 and C3. These methods are consistent with ASTM standards and generally follow ISO standards.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, 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.

Dissolved Trace Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Laboratory Measurements

Samples for indicator bacteria and daily samples for specific conductance are analyzed in the Tampa office. All other samples are analyzed in the Geological Survey National Water Quality Laboratory NWQL in Colorado or the U.S. Geological Survey Quality of Water Service Unit (QWSU) in Ocala, Florida. Methods used to analyze sediment samples and to compute sediment records are described in the TWRI Book 5, Chapter C1. Methods used by the U.S. Geological Survey laboratories are given in the TWRI Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapter A1, A3, A4, and A5. Updates to these methods are published periodically in the U.S. Geological Survey's Open File Reports. These methods are consistent with ASTM standards and generally follow ISO standards.

In March 1989 the U.S. Geological Survey's NWQL in Colorado discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between October 1982 and July 1989. Sulfate values for NASQAN stations (02301500) Alafia River at Lithia, FL and (02296750) Peace River at Arcadia, FL have not been corrected for this bias. Sulfate values for other stations in this report were determined at the QWSU in Ocala, Florida, and the turbidimetric method was not used.

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, as appropriate, 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 under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. 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.

INSTRUMENTATION.--Information on instrumentation is given only if a water-quality monitor 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 Geological Survey by a cooperating organization are identified here.

EXTREMES.--Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently, because the true maximums or minimums may not have been sampled. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.--If errors in published water-quality records are discovered after publication, appropriate updates are made to the water-quality file in the U.S. Geological Survey's computerized data system, NWIS, and subsequently by transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from the appropriate computer file to insure the most recent updates.

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.

Remark Codes

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

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptance range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
V	Analyte was detected in both the environmental sample and the associated blanks
&	Biological organism estimated as dominant

Rounding Clarification

Values for some constituents analyzed by routine methods are tabulated with extraneous trailing zeros that are not significant digits. Extraneous zeros result because data obtained from low-level methods that have better (lower) detection limits are stored under the same parameter code as data obtained by routine analytical methods.

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 at:

http://water.usgs.gov

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

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-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, 325,851 gallons, or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algae are mostly aquatic single-celled, colonial, or multi-celled plants containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is 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, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] 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.

Inch (IN., in.) as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it.

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass is expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material: See "Bed material."

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^3 h$ cylinder $\pi r^3 h$.

From cell volume, total algal biomass expressed as biovolume ($\mu m^3/mL$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophylls *a* and *b* are the two most common green pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measurements are recorded at least daily.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft^3/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a 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.)

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n} \qquad (1)$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that is occupied by a drainage system with a common outlet for its surface runoff (see "Drainage area").

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see "Datum"). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site:*
http://www.co-ops.nos.noaa.gov/tideglos.html

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L} \tag{2}$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o} \tag{3}$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site:*
http://www.co-ops.nos.noaa.gov/tideglos.html

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. *See NOAA web site:*
http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), or total organic carbon (TOC).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of Analysis
Clay.....	0.00024 - 0.004	Sedimentation
Silt.....	.004 - .062	Sedimentation
Sand.....	.062 - 2.0	Sedimentation/sieve
Gravel.....	2.0 - 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed "acidic," and solutions with a pH greater than 7 are termed "basic." Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (*Pyrrhophyta*) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB's) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCN's) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCB's) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

Runoff in inches (IN., in.) is the depth, in inches, to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929. *See*:
http://www.co-ops.nos.noaa.gov/ glossary/gloss_n.html#NGVD

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q10, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage: See "Gage height."

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

> **Artificial substrate** is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.
>
> **Natural substrate** refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

> **Suspended, recoverable** is the amount of a given constituent that is in solution after the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.
> *Determinations of "suspended, recoverable"* constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.
>
> **Suspended, total** is the total amount of a given constituent in the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."
> *Determinations of "suspended, total"* constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Synoptic Studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata,* is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexagenia*
Species	*Hexagenia limbata*

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative suspended-sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are man-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1999, is called the "1999 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature—influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS–TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI Book 1, Chapter D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. *Application of surface geophysics to ground-water investigations,* by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI Book 2, Chapter D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI Book 2, Chapter D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: USGS–TWRI Book 2, Chapter E1. 1971. 126 pages.

2-E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI Book 2, Chapter E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI Book 2, Chapter F1. 1989. 97 pages.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements,* by M.A. Benson and Tate Dalrymple: USGS–TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS–TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS–TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI Book 3. Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI Book 3, Chapter A9. 1989. 27 pages.

3-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI Book 3, Chapter A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI Book 3, Chapter A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing*, Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A12. 1986. 41 pages.

3-A13. *Computation of continuous records of streamflow*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI Book 3, Chapter A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI Book 3, Chapter A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers*, by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI Book 3, Chapter A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI Book 3, Chapter A17. 1985. 38 pages.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI Book 3, Chapter A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations*, by E.J. Kennedy: USGS–TWRI Book 3, Chapter A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers*, by F.A. Kilpatrick: USGS–TWRI Book 3, Chapter A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI Book 3, Chapter A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G.D. Bennett: USGS–TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J.E. Reed: USGS–TWRI Book 3, Chapter B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI Book 3, Chapter B4. 1990. 232 pages.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI Book 3, Chapter B4. 1993. 8 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction*, by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI Book 3, Chapter B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI Book 3, Chapter B6. 1987. 28 pages.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI Book 3, Chapter B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by Thomas K. Edwards and G. Douglas Glysson: USGS–TWRI Book 3, Chapter C2. 1988. 80 pages.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI Book 3, Chapter C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI Book 4, Chapter A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI Book 4, Chapter B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells*, by C.T. Jenkins: USGS–TWRI Book 4, Chapter D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI Book 5, Chapter A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments*, edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI Book 5, Chapter A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI Book 5, Chapter A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI Book 5, Chapter A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI Book 5, Chapter A6. 1982. 181 pages.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis*, by H.P. Guy: USGS–TWRI Book 5, Chapter C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model,* by M.G. McDonald and A.W. Harbaugh: USGS–TWRI Book 6, Chapter A1. 1988. 586 pages.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI Book 6, Chapter A2. 1991. 68 pages.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI Book 6, Chapter A3. 1993. 136 pages.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI Book 6, Chapter A4. 1992. 108 pages.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI Book 6, Chapter A5, 1993. 243 pages.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler. 1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI Book 7, Chapter C3. 1981. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI Book 8, Chapter A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers*, by J.D. Craig: USGS–TWRI Book 8, Chapter A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI Book 8, Chapter B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI Book 9, Chapter A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, by D.N. Myers and F.D. Wilde: USGS–TWRI Book 9, Chapter A7. 1997. 49 pages.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI Book 9, Chapter A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI Book 9, Chapter A9. 1998. 60 pages.

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STAGE, DISCHARGE, AND WATER QUALITY OF STREAMS

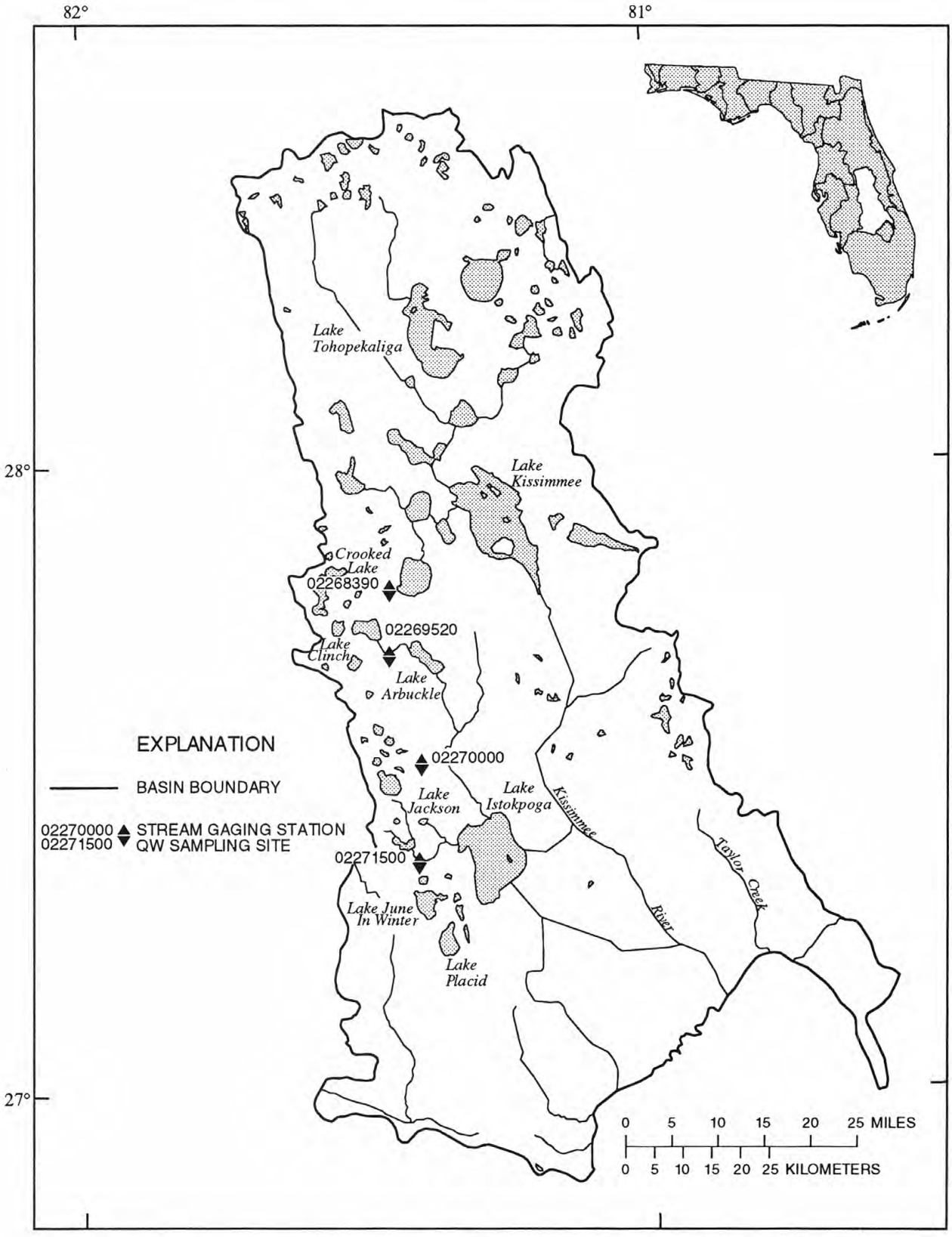

Figure 13.--Location of stream gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

02268390 TIGER CREEK NEAR BABSON PARK, FL

LOCATION.--Lat 27°48'40", long 81°26'38", in NE$^1/_4$ 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^2.

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 good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	29	34	32	41	30	20	16	10	48	18	49
2	64	29	33	31	43	30	19	15	10	48	18	46
3	60	29	32	45	51	29	19	15	17	46	21	43
4	57	31	32	53	53	29	19	14	23	41	29	39
5	54	51	32	53	50	28	18	13	23	36	43	35
6	51	63	31	48	46	28	18	13	30	32	52	33
7	49	67	31	43	43	27	17	13	35	29	58	33
8	47	62	31	39	40	26	17	13	38	27	61	31
9	46	56	30	37	39	26	16	13	36	26	56	31
10	44	50	30	36	37	26	16	19	34	25	54	30
11	43	46	29	36	36	25	16	19	32	24	55	35
12	42	44	29	35	37	25	16	17	33	24	54	38
13	41	42	29	34	50	24	15	16	49	23	49	43
14	40	40	32	34	53	25	15	16	51	25	44	47
15	39	39	32	33	48	29	15	17	43	28	38	50
16	38	38	31	33	43	29	14	16	42	27	34	51
17	37	37	30	33	40	27	14	15	59	25	32	48
18	37	36	29	33	38	26	15	15	72	24	31	55
19	36	35	29	33	37	25	15	14	80	25	32	73
20	36	35	30	32	35	24	15	14	85	24	33	93
21	35	35	30	32	34	24	14	14	84	23	34	107
22	36	42	30	31	34	24	14	14	79	23	41	107
23	35	47	29	31	33	23	13	13	73	25	65	99
24	34	46	29	42	32	23	13	13	64	25	83	89
25	33	44	29	51	31	22	12	12	57	24	95	82
26	33	41	29	49	30	22	12	12	56	23	93	84
27	32	39	29	44	30	23	12	11	68	22	84	85
28	32	37	31	41	29	22	15	11	75	21	73	81
29	31	36	34	38	---	21	16	11	74	20	64	75
30	30	35	35	37	---	21	16	11	56	19	57	69
31	30	---	34	36	---	20	---	10	---	19	53	---
TOTAL	1292	1261	955	1185	1113	783	466	435	1488	851	1554	1781
MEAN	41.7	42.0	30.8	38.2	39.8	25.3	15.5	14.0	49.6	27.5	50.1	59.4
MAX	70	67	35	53	53	30	20	19	85	48	95	107
MIN	30	29	29	31	29	20	12	10	10	19	18	30
CFSM	.79	.80	.58	.72	.75	.48	.29	.27	.94	.52	.95	1.12
IN.	.91	.89	.67	.83	.78	.55	.33	.31	1.05	.60	1.09	1.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

MEAN	46.3	35.9	36.8	41.0	40.1	38.7	31.2	21.3	35.2	42.9	55.2	52.8
MAX	75.9	47.0	64.3	61.1	81.9	84.5	48.8	29.3	54.3	52.4	85.2	69.8
(WY)	1996	1995	1995	1998	1998	1998	1998	1998	1996	1995	1995	1994
MIN	20.4	22.1	19.2	20.2	24.8	21.3	15.5	12.8	16.9	27.5	23.5	27.1
(WY)	1994	1994	1994	1992	1994	1992	1999	1992	1998	1999	1993	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1992 - 1999	
ANNUAL TOTAL	17872		13164			
ANNUAL MEAN	49.0		36.1		39.8	
HIGHEST ANNUAL MEAN					49.7	1998
LOWEST ANNUAL MEAN					33.2	1994
HIGHEST DAILY MEAN	185	Mar 22	107	Sep 21	185	Mar 22 1998
LOWEST DAILY MEAN	12	Jul 4	10	May 31	9.1	May 30 1992
ANNUAL SEVEN-DAY MINIMUM	13	Jun 30	11	May 27	9.8	May 24 1992
INSTANTANEOUS PEAK FLOW			109	Sep 21	188	Mar 22 1998
INSTANTANEOUS PEAK STAGE			45.18	Sep 21	46.04	Mar 22 1998
ANNUAL RUNOFF (CFSM)	.93		.68		.75	
ANNUAL RUNOFF (INCHES)	12.59		9.27		10.24	
10 PERCENT EXCEEDS	80		59		68	
50 PERCENT EXCEEDS	44		33		34	
90 PERCENT EXCEEDS	22		15		19	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
16...	0950	43.97	38	172	5.20	19.0	7.6
JAN							
12...	1005	43.90	36	172	6.19	12.5	8.9
MAY							
04...	0925	43.14	15	155	6.35	19.2	6.2
JUN							
09...	1000	43.90	36	190	6.35	23.7	6.8
AUG							
05...	1003	44.09	43	172	5.73	24.7	6.2
SEP							
23...	1013	45.08	101	127	4.81	23.4	4.9

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
16...	<.01	1.4	.04	.39	<.02	.03
JAN						
12...	<.01	1.5	.03	.38	<.02	<.01
MAY						
04...	.01	1.5	.01	.41	<.02	.02
JUN						
09...	<.01	1.2	.02	.20	.03	<.01
AUG						
05...	<.01	.90	.03	.64	.02	.02
SEP						
23...	<.01	.16	.04	1.0	<.02	.02

02269520 LIVINGSTON CREEK NEAR FROSTPROOF, FL

LOCATION.--Lat 27°42'30", long 81°26'48", in SW 1/4 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^2.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	37	40	32	37	25	14	8.5	9.6	33	23	58
2	84	36	39	31	38	24	14	8.5	9.4	31	23	73
3	83	36	38	42	41	24	13	8.3	9.4	31	26	69
4	80	38	38	42	40	24	12	8.2	9.2	35	27	59
5	79	100	38	38	38	23	11	8.1	9.2	70	31	53
6	97	127	37	35	37	22	11	8.0	9.0	60	32	49
7	91	94	36	34	37	22	11	8.0	8.9	50	34	48
8	81	76	36	33	36	21	11	8.0	8.9	46	32	45
9	75	69	35	33	36	21	11	8.0	8.9	47	35	42
10	72	65	34	35	35	20	11	7.8	8.9	52	33	39
11	69	61	34	34	34	20	11	7.8	8.9	46	33	38
12	66	59	34	33	34	19	11	7.8	11	42	34	37
13	63	57	33	33	45	18	11	7.7	20	40	33	39
14	60	56	34	33	40	19	10	8.6	11	38	30	37
15	57	54	33	32	36	29	10	13	10	45	29	40
16	55	52	32	32	35	23	10	11	15	45	27	37
17	53	51	31	32	34	21	10	11	33	39	27	34
18	58	50	30	32	34	20	9.9	11	43	36	30	58
19	58	49	30	32	33	20	9.9	11	36	35	39	182
20	54	47	34	32	33	20	9.7	11	28	32	46	173
21	51	47	33	31	31	19	9.7	11	27	31	40	144
22	50	50	33	30	30	19	9.6	10	25	38	40	122
23	47	48	32	30	29	18	9.4	10	24	51	76	107
24	44	49	32	51	28	18	9.4	10	e20	44	94	98
25	43	47	32	55	27	17	9.2	10	e18	37	88	93
26	42	46	32	46	26	17	9.2	10	e35	33	77	97
27	41	44	32	43	26	17	8.9	10	e45	31	68	124
28	40	43	32	41	26	16	8.9	9.9	e40	29	62	116
29	38	42	33	39	---	15	8.8	9.9	e35	27	57	101
30	38	40	34	38	---	15	8.7	9.9	e33	25	52	92
31	37	---	33	38	---	14	---	9.7	---	24	52	---
TOTAL	1893	1670	1054	1122	956	620	313.3	291.7	609.3	1223	1330	2304
MEAN	61.1	55.7	34.0	36.2	34.1	20.0	10.4	9.41	20.3	39.5	42.9	76.8
MAX	97	127	40	55	45	29	14	13	45	70	94	182
MIN	37	36	30	30	26	14	8.7	7.7	8.9	24	23	34
AC-FT	3750	3310	2090	2230	1900	1230	621	579	1210	2430	2640	4570
CFSM	.51	.46	.28	.30	.28	.17	.09	.08	.17	.33	.36	.64
IN.	.59	.52	.33	.35	.30	.19	.10	.09	.19	.38	.41	.71

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

MEAN	80.3	59.1	55.0	60.6	62.3	63.7	45.7	25.7	30.9	45.8	75.9	87.0
MAX	199	120	151	135	211	248	146	69.4	52.1	101	239	278
(WY)	1996	1996	1995	1998	1998	1998	1998	1998	1996	1995	1995	1995
MIN	19.6	20.7	14.4	15.6	19.6	16.3	10.4	9.41	19.8	23.0	18.4	26.3
(WY)	1998	1994	1994	1992	1997	1997	1999	1999	1997	1993	1993	1993

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1992 - 1999	
ANNUAL TOTAL	34039		13386.3			
ANNUAL MEAN	93.3		36.7		57.7	
HIGHEST ANNUAL MEAN					125	1995
LOWEST ANNUAL MEAN					27.6	1997
HIGHEST DAILY MEAN	e700	Mar 21	182	Sep 19	e700	Mar 21 1998
LOWEST DAILY MEAN	12	Jul 8	7.7	May 13	6.2	May 30 1992
ANNUAL SEVEN-DAY MINIMUM	12	Jul 6	7.9	May 7	6.7	May 27 1992
INSTANTANEOUS PEAK FLOW			193	Sep 19	Unknown	Mar 21 1998
INSTANTANEOUS PEAK STAGE			44.95	Sep 19	Unknown	Mar 21 1998
ANNUAL RUNOFF (AC-FT)	67520		26550		41770	
ANNUAL RUNOFF (CFSM)	.78		.31		.48	
ANNUAL RUNOFF (INCHES)	10.55		4.15		6.53	
10 PERCENT EXCEEDS	179		67		134	
50 PERCENT EXCEEDS	55		33		35	
90 PERCENT EXCEEDS	32		9.7		16	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
16...	1015	42.28	53	177	5.30	19.5	5.7
JAN							
12...	1040	41.65	33	210	6.42	12.0	9.8
MAY							
04...	0955	40.85	8.2	205	6.38	20.2	5.6
JUN							
09...	1047	40.88	8.9	250	6.20	24.7	6.1
AUG							
05...	1030	42.02	31	227	5.24	26.6	4.7
SEP							
23...	1052	43.58	108	168	4.96	24.5	3.8

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
16...	<.01	.54	.08	1.2	.09	.08
JAN						
12...	.01	.73	.32	.95	.04	<.01
MAY						
04...	.01	.96	.03	.63	.05	.02
JUN						
09...	<.01	.70	.03	.38	.03	.01
AUG						
05...	<.01	.40	.03	.71	.04	.04
SEP						
23...	<.01	.21	.04	.74	.11	.12

02270000 CARTER CREEK NEAR SEBRING, FL

LOCATION.--Lat 27°31'55", long 81°23'16", in SE$^1/_4$ 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^2.

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, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	21	22	16	16	11	7.8	e5.3	5.6	61	13	33
2	41	21	22	16	15	10	7.6	e5.2	5.3	33	12	65
3	39	20	21	23	15	10	7.6	e5.1	5.4	26	15	60
4	37	24	21	23	15	10	7.3	e5.0	5.6	24	16	45
5	37	87	21	21	14	10	7.3	e4.9	5.3	26	18	37
6	41	76	21	19	14	10	e7.0	e4.9	5.1	22	23	33
7	45	59	20	19	14	9.8	e7.0	6.3	5.0	19	19	32
8	42	48	20	18	13	9.8	e6.9	7.9	5.0	17	17	31
9	40	41	19	18	13	9.6	e6.8	11	5.1	52	16	29
10	39	38	19	18	13	9.5	e6.8	9.8	5.8	38	19	27
11	37	36	18	18	13	9.2	e6.7	8.6	5.3	33	22	25
12	37	34	18	17	13	9.1	e6.6	8.0	5.1	37	18	28
13	36	33	18	17	15	9.0	e6.6	7.6	5.0	39	16	31
14	34	31	20	17	14	9.9	e6.5	7.2	4.8	27	21	27
15	33	31	19	16	13	12	e6.4	7.0	4.7	24	30	30
16	31	30	18	16	13	11	e6.4	6.6	5.2	32	23	26
17	30	29	18	16	13	11	e6.3	6.3	7.4	29	21	23
18	32	28	17	16	13	10	e6.2	6.1	11	28	35	24
19	31	27	17	15	12	9.9	e6.1	6.0	12	23	53	48
20	30	27	20	15	12	9.6	e6.0	5.8	11	20	49	61
21	29	26	19	15	12	9.4	e5.9	5.8	11	18	40	53
22	30	26	19	15	12	9.3	e5.8	5.9	12	26	53	41
23	29	26	19	15	12	9.0	e5.7	5.9	27	33	115	34
24	27	26	18	25	11	8.9	e5.6	5.7	28	25	125	30
25	26	25	18	23	11	8.8	e5.6	5.4	21	21	88	27
26	26	25	17	20	11	8.3	e5.5	5.3	23	18	64	30
27	25	24	17	19	11	8.5	e5.5	5.1	38	17	48	37
28	25	24	17	18	11	8.3	e5.4	5.0	51	16	39	34
29	24	23	17	17	---	8.1	e5.4	6.0	38	15	34	31
30	23	23	18	16	---	8.0	e5.4	6.1	45	14	30	28
31	21	---	17	16	---	8.0	---	5.9	---	13	31	---
TOTAL	1021	989	585	553	364	295.0	191.7	196.7	418.7	826	1123	1060
MEAN	32.9	33.0	18.9	17.8	13.0	9.52	6.39	6.35	14.0	26.6	36.2	35.3
MAX	45	87	22	25	16	12	7.8	11	51	61	125	65
MIN	21	20	17	15	11	8.0	5.4	4.9	4.7	13	12	23
AC-FT	2030	1960	1160	1100	722	585	380	390	830	1640	2230	2100
CFSM	.85	.85	.49	.46	.34	.25	.16	.16	.36	.69	.93	.91
IN.	.98	.95	.56	.53	.35	.28	.18	.19	.40	.79	1.08	1.02

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 1999, BY WATER YEAR (WY)

MEAN	38.4	26.3	20.9	22.2	23.4	23.8	19.9	14.7	23.4	30.7	36.6	44.0
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	9.19	8.62	7.16	7.90	5.66	4.25	3.52	6.49	9.73	9.46	12.5
(WY)	1962	1993	1993	1992	1997	1997	1994	1994	1997	1956	1993	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1955 - 1999	
ANNUAL TOTAL	15463.3		7623.1			
ANNUAL MEAN	42.4		20.9		27.2	
HIGHEST ANNUAL MEAN					65.6	1960
LOWEST ANNUAL MEAN					11.1	1997
HIGHEST DAILY MEAN	171	Mar 20	125	Aug 24	352	Sep 11 1960
LOWEST DAILY MEAN	8.8	Jul 11	4.7	Jun 15	2.3	May 23 1962
ANNUAL SEVEN-DAY MINIMUM	9.4	Jul 5	5.1	Apr 30	2.6	May 22 1994
INSTANTANEOUS PEAK FLOW			143	Aug 24	552	Sep 11 1960
INSTANTANEOUS PEAK STAGE			8.86	Aug 24	11.05	Sep 11 1960
ANNUAL RUNOFF (AC-FT)	30670		15120		19740	
ANNUAL RUNOFF (CFSM)	1.09		.54		.70	
ANNUAL RUNOFF (INCHES)	14.83		7.31		9.54	
10 PERCENT EXCEEDS	90		38		55	
50 PERCENT EXCEEDS	34		18		20	
90 PERCENT EXCEEDS	15		5.8		7.6	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
16...	1115	6.00	30	161	5.30	20.0	7.5
JAN							
12...	1145	5.53	17	165	6.31	13.0	9.8
MAY							
04...	1100	4.78	4.7	168	6.43	19.8	6.6
JUN							
09...	1153	4.82	5.1	169	6.44	24.4	7.4
AUG							
05...	1137	5.59	16	150	5.45	26.1	8.5
SEP							
23...	1145	6.35	35	134	5.05	24.3	6.0

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
16...	<.01	.26	.05	.70	.04	.01
JAN						
12...	<.01	.50	.04	.50	<.02	<.01
MAY						
04...	.01	.22	.03	.54	.04	<.01
JUN						
09...	<.01	.23	.02	.29	.03	<.01
AUG						
05...	<.01	.15	.04	.64	.02	.01
SEP						
23...	<.01	.12	.03	.58	<.02	.02

02271500 JOSEPHINE CREEK NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°22'26", long 81°23'37", in SE$^1/_4$ 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^2, 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. Some regulation by gate manipulations at structure G-90 located on Lake June-in-Winter outflow canal. Discharge affected by pumpage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	194	18	46	25	37	19	9.5	7.6	7.1	186	39	136
2	161	17	45	24	37	17	9.4	7.0	6.9	132	36	148
3	143	16	44	39	42	18	9.1	6.6	6.6	129	36	146
4	129	23	44	44	42	18	8.9	6.3	6.4	116	41	136
5	116	136	43	37	40	16	8.9	6.0	6.6	109	46	122
6	106	170	42	31	37	16	8.6	5.9	7.0	97	37	110
7	97	159	41	29	36	16	8.4	6.7	6.6	84	19	107
8	90	146	39	28	34	15	8.2	7.4	6.8	75	21	131
9	85	133	39	28	33	13	8.2	8.2	7.7	89	27	119
10	81	122	38	29	32	13	7.9	8.0	10	76	71	109
11	75	112	37	27	30	13	7.7	7.3	9.9	74	103	98
12	72	105	37	25	31	12	7.5	7.0	11	99	79	97
13	66	98	38	24	38	12	7.2	6.9	34	189	64	98
14	53	91	42	23	35	12	7.1	6.2	31	155	56	111
15	47	86	39	24	31	14	7.0	5.4	21	129	62	104
16	43	81	34	24	30	14	6.9	5.4	24	109	73	85
17	40	76	32	23	30	14	6.9	6.0	75	94	67	70
18	38	73	30	23	31	17	6.8	6.1	94	92	73	67
19	36	71	29	23	31	16	6.7	5.9	95	87	77	119
20	34	68	31	23	29	14	6.6	5.9	76	73	114	130
21	33	66	32	22	27	14	6.4	6.6	75	62	122	182
22	31	64	32	21	25	13	6.3	7.7	67	56	130	173
23	27	62	32	20	22	11	6.3	6.6	77	66	189	116
24	24	60	31	43	21	11	6.1	6.2	85	76	356	98
25	23	59	31	51	20	11	5.9	5.9	80	79	311	93
26	22	58	31	46	20	11	5.7	5.4	76	77	233	118
27	20	55	30	45	20	11	5.6	4.9	108	73	226	173
28	19	52	29	45	19	11	6.2	4.9	113	65	204	207
29	19	50	29	44	---	10	6.6	7.5	108	57	157	196
30	19	48	29	42	---	9.9	7.5	7.5	225	48	133	176
31	18	---	27	40	---	9.7	---	7.5	---	42	120	---
TOTAL	1961	2375	1103	972	860	421.6	220.1	202.5	1556.6	2895	3322	3775
MEAN	63.3	79.2	35.6	31.4	30.7	13.6	7.34	6.53	51.9	93.4	107	126
MAX	194	170	46	51	42	19	9.5	8.2	225	189	356	207
MIN	18	16	27	20	19	9.7	5.6	4.9	6.4	42	19	67
AC-FT	3890	4710	2190	1930	1710	836	437	402	3090	5740	6590	7490
CFSM	.58	.73	.33	.29	.28	.12	.07	.06	.48	.86	.98	1.15
IN.	.67	.81	.38	.33	.29	.14	.08	.07	.53	.99	1.13	1.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1999, BY WATER YEAR (WY)

MEAN	129	65.1	45.7	45.9	53.3	54.5	40.4	22.4	53.5	83.6	123	163
MAX	601	296	201	167	421	330	177	131	221	318	614	770
(WY)	1954	1948	1954	1948	1998	1998	1958	1958	1947	1947	1960	1960
MIN	17.3	7.65	6.80	6.87	6.69	4.15	1.89	1.05	3.12	3.13	8.87	12.6
(WY)	1973	1997	1997	1997	1962	1997	1956	1956	1956	1956	1950	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1947 - 1999	
ANNUAL TOTAL	44396.1		19663.8			
ANNUAL MEAN	122		53.9		73.4	
HIGHEST ANNUAL MEAN					268	1960
LOWEST ANNUAL MEAN					15.1	1956
HIGHEST DAILY MEAN	802	Mar 22	356	Aug 24	1680	Sep 23 1948
LOWEST DAILY MEAN	5.7	Jul 5	4.9	May 27	.50	May 22 1956
ANNUAL SEVEN-DAY MINIMUM	6.3	Jun 30	5.8	May 14	.69	May 21 1956
INSTANTANEOUS PEAK FLOW			365	Aug 24	1780	Sep 23 1948
INSTANTANEOUS PEAK STAGE			6.49	Aug 24	10.67	Sep 23 1948
ANNUAL RUNOFF (AC-FT)	88060		39000		53170	
ANNUAL RUNOFF (CFSM)	1.12		.49		.67	
ANNUAL RUNOFF (INCHES)	15.15		6.71		9.15	
10 PERCENT EXCEEDS	367		129		170	
50 PERCENT EXCEEDS	66		35		39	
90 PERCENT EXCEEDS	13		6.9		8.2	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
16...	1200	4.36	81	122	4.50	21.5	--	5.6	--	--	--	--
JAN												
12...	1235	3.28	25	138	6.20	15.0	100	7.4	8.9	4.4	7.0	2.7
MAY												
04...	1145	2.23	6.4	185	6.21	23.8	30	3.6	14	6.1	6.6	2.9
JUN												
09...	1240	2.24	6.8	180	6.18	27.3	--	3.3	--	--	--	--
AUG												
05...	1232	4.10	47	129	5.16	29.2	80	3.4	9.1	3.9	6.8	2.5
SEP												
23...	1245	5.41	113	106	4.86	26.7	280	3.8	7.3	3.0	6.3	2.4

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
16...	--	--	--	--	--	<.01	.31	.10	.80	.03	.02	--
JAN												
12...	23	14	<.10	4.9	110	<.01	.60	.08	.55	<.02	.02	250
MAY												
04...	31	14	<.10	7.0	126	.02	1.3	.12	.58	.05	.02	500
JUN												
09...	--	--	--	--	--	.02	1.2	.15	.49	.04	<.01	--
AUG												
05...	21	13	<.10	4.3	114	<.01	.28	.10	.94	.04	.02	200
SEP												
23...	15	12	<.10	3.4	106	<.01	.20	.06	.80	.03	.03	150

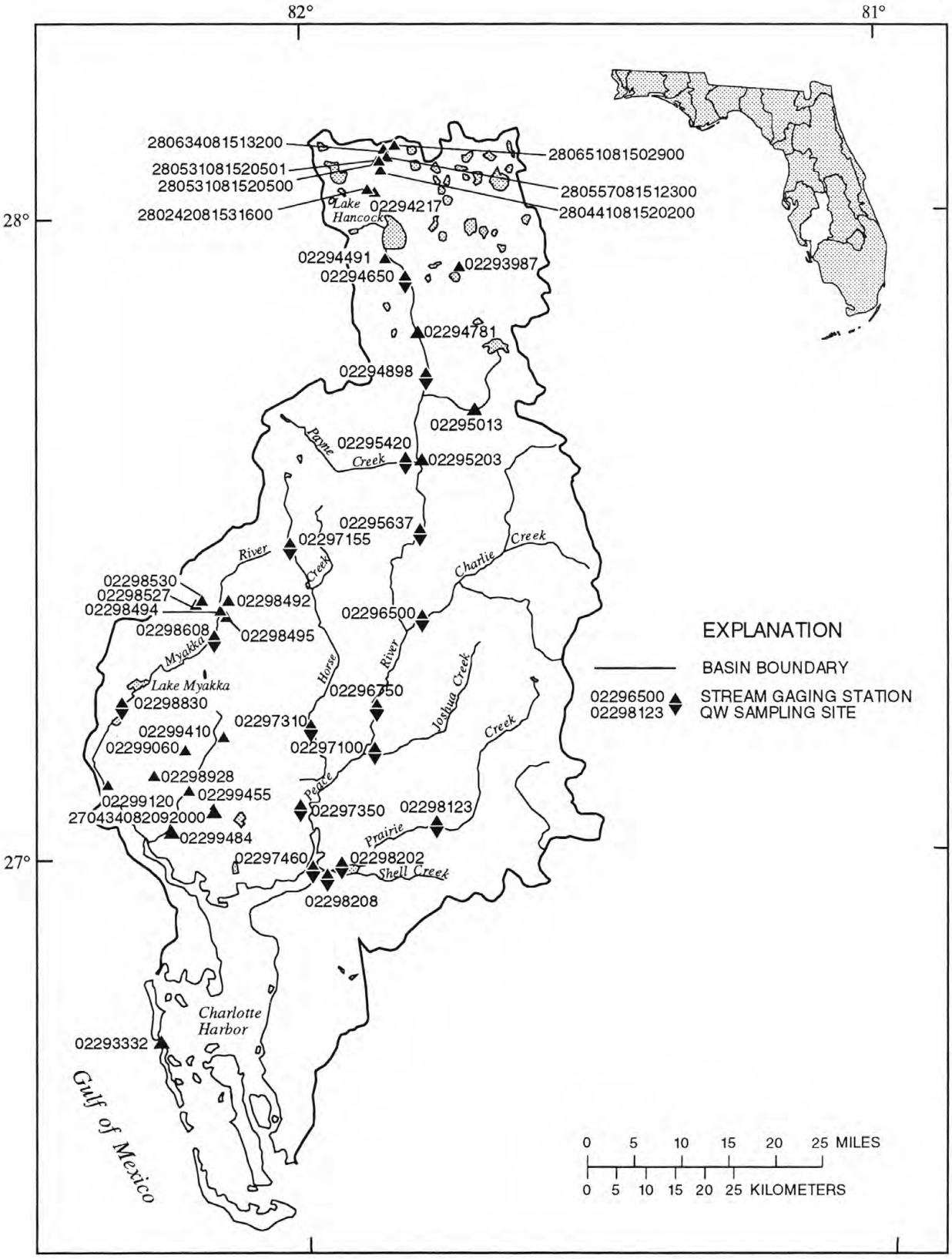

Figure 14.--Location of stream gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE, FL

LOCATION.--Lat 26°43'12", long 82°15'30", in SE$^1/_4$ 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 current year (incomplete). 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.--Stage affected by wind and tide.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 3.42 ft, Oct. 7, 1996; minimum, 1.44 ft below NGVD, Dec. 16, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.15 ft, Jan. 3; minimum, 1.33 ft below NGVD, Feb. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1.95	.28	1.69	.35	1.10	-.72	1.76	-1.01	1.83	-.44	1.62	-.42
2	1.63	.22	1.80	.31	1.35	-1.11	2.74	-.54	1.90	-.07	1.65	-.08
3	1.60	.14	1.97	.15	1.68	-.95	3.15	-.05	1.57	-.16	1.72	.29
4	1.53	.20	1.95	-.22	1.68	-.84	1.35	-1.01	1.28	-.18	.99	-.29
5	1.54	.25	1.40	-1.23	1.45	-1.03	.51	-1.30	1.01	-.02	.86	-.21
6	1.57	-.01	1.15	-.70	1.35	-.90	.36	-.84	1.14	.11	1.04	.01
7	1.70	.04	1.15	-1.02	1.41	-.58	.59	-.62	1.31	.38	.84	-.44
8	1.68	-.10	1.16	-.79	1.21	-.46	1.06	.11	1.25	.27	.69	-.45
9	1.65	-.08	1.36	-.29	.74	-.49	1.85	.41	1.28	.11	1.49	-.45
10	1.62	-.23	1.45	.07	.63	-.48	.66	-.27	1.17	-.24	1.30	.10
11	1.39	-.05	1.35	.12	.71	-.21	.47	-.76	1.54	-.35	1.07	-.14
12	1.38	-.16	.96	.05	1.23	.10	1.26	-.66	1.44	-.29	1.24	-.37
13	1.32	.20	1.17	.25	1.38	.24	1.41	-.14	1.12	-.66	1.76	-.34
14	1.47	.29	1.26	.49	.87	-.08	1.75	-.52	1.15	-1.33	1.90	.13
15	1.23	.35	1.33	.18	.83	-.68	1.48	-.44	1.38	-1.00	1.57	.09
16	1.07	.12	1.47	.01	1.13	-.67	1.56	-.74	1.79	-.41	1.17	-1.15
17	1.22	.20	1.41	-.13	1.13	-.54	1.53	-.53	1.90	-.12	1.17	-.38
18	1.40	.35	1.25	-.38	1.57	-.94	1.55	-.43	1.96	.17	1.25	-.25
19	1.32	.23	1.37	-.63	1.57	-.47	1.50	-.64	1.67	.22	1.37	-.28
20	1.30	.09	1.38	-.56	1.71	-.77	1.32	-.64	1.18	.09	1.30	-.28
21	1.37	.05	1.12	-.49	1.73	-.56	1.27	-.36	1.48	-.46	1.59	-.24
22	1.28	-.23	1.13	-.86	1.44	-.26	1.44	.10	.99	-.43	1.11	-.51
23	.78	-1.25	1.23	-.59	1.07	-.64	1.42	.38	1.44	-.39	1.33	-.50
24	1.17	-.37	.98	-.56	1.33	-.23	1.26	-.50	1.37	-.41	1.14	-.47
25	1.33	-.32	.70	-.31	1.00	-.12	.71	-.68	1.37	-.39	1.28	-.54
26	1.29	-.21	.70	-.42	.81	-.37	1.01	-.76	1.67	-.65	1.02	-.50
27	1.38	-.09	.61	-.43	1.09	-.28	1.48	-.79	1.64	-.41	.82	-.69
28	1.49	.29	.71	-.26	1.55	-.26	1.71	-.63	1.55	-.20	1.07	-.94
29	1.58	.44	1.08	-.19	1.90	-.08	1.80	-.61	---	---	1.13	-.55
30	1.52	.49	1.10	-.27	1.39	-.27	1.73	-.54	---	---	1.13	-.34
31	1.37	.28	---	---	1.35	-.84	1.73	-.54	---	---	1.40	-.13
MONTH	1.95	-1.25	1.97	-1.23	1.90	-1.11	3.15	-1.30	1.96	-1.33	1.90	-1.15

02293332 CHARLOTTE HARBOR AT PORT BOCA GRANDE, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.40	-.06	1.27	-.39	1.48	-.43	---	---	1.45	.14	1.62	.28
2	.95	-.31	1.39	-.39	1.62	-.48	---	---	1.20	-.02	1.37	.18
3	1.08	-.37	1.51	-.24	1.36	-.58	---	---	1.40	.40	1.47	.18
4	1.16	-.29	1.78	.14	1.13	-.48	.77	-.40	1.50	.40	2.03	.29
5	1.18	-.29	1.91	.09	1.29	-.57	.58	-.36	1.85	.32	2.20	.35
6	1.26	-.37	1.98	.28	.98	-.40	.65	-.38	2.29	.29	2.29	.23
7	1.23	-.34	1.89	.02	.82	-.34	1.11	-.03	1.82	-.25	2.04	.13
8	1.29	-.26	1.48	.04	.90	-.20	1.26	-.20	1.81	-.45	2.20	.41
9	1.34	-.21	1.32	-.03	1.24	-.03	---	---	2.14	-.26	2.18	.55
10	1.23	-.08	1.22	.01	1.47	-.21	---	---	2.11	-.26	2.00	.62
11	1.18	-.13	1.38	.15	1.38	-.67	---	---	2.04	-.20	1.72	.74
12	1.01	-.14	1.42	.10	1.72	-.56	---	---	1.79	-.11	1.64	.66
13	1.29	-.26	1.55	-.21	1.66	-.70	---	---	1.65	.09	1.41	.37
14	1.80	.07	1.89	-.21	1.79	-.81	---	---	1.69	.47	1.10	.05
15	2.25	.50	1.64	-.70	1.80	-.62	---	---	1.49	.43	1.51	.75
16	1.64	-.41	1.71	-.72	1.88	-.39	---	---	1.37	.34	1.81	.60
17	1.13	-1.15	1.78	-.59	1.95	-.14	---	---	1.20	.19	1.75	.47
18	.79	-1.12	1.84	-.43	1.36	-.35	---	---	1.41	.47	2.15	.81
19	1.02	-.97	1.84	-.39	1.18	-.23	---	---	1.50	.30	2.61	1.06
20	1.28	-.72	1.56	-.33	.89	-.23	---	---	1.65	.31	2.91	1.59
21	1.36	-.64	1.55	-.32	1.10	-.02	---	---	1.56	.12	3.09	.74
22	1.42	-.43	1.01	-.34	.92	-.04	1.22	.03	1.58	-.09	1.90	.46
23	1.13	-.34	1.09	-.15	1.17	.04	1.37	-.10	1.84	-.08	1.72	.40
24	.97	-.31	1.09	.12	1.36	.01	1.66	-.16	1.72	-.12	2.05	.57
25	1.12	-.12	1.24	-.08	1.19	.07	1.63	-.25	1.83	-.12	2.23	.78
26	1.52	.07	1.12	-.19	1.23	-.67	1.57	-.41	1.71	-.08	1.98	.60
27	1.63	.40	1.23	-.37	1.39	-.66	1.69	-.38	1.73	.05	1.98	.49
28	1.70	.28	1.23	-.43	1.21	-.72	1.77	-.26	1.69	.34	1.86	.31
29	1.65	.13	1.34	-.44	---	---	1.73	-.21	1.67	.45	1.97	.51
30	1.61	-.08	1.36	-.68	---	---	1.66	-.07	1.64	.57	1.87	.32
31	---	---	1.46	-.42	---	---	1.67	.04	1.52	.29	---	---
MONTH	2.25	-1.15	1.98	-.72	---	---	---	---	2.29	-.45	3.09	.05

02293987 PEACE CREEK DRAINAGE CANAL NEAR WAHNETA, FL

LOCATION.--Lat 27°55'28", long 81°43'37", in SE$^1/_4$ sec.29, T.29 S., R.26 E., Polk County, Hydrologic Unit 03100101, on left bank, about 75 ft downstream from bridge on State Highway 665, 0.5 mi north of State Highway 60, 1.9 mi south of Wahneta, 3.5 mi north of Alturas, and 113 mi upstream from mouth of Peace River at Charlotte Harbour.

DRAINAGE AREA.--162 mi^2.

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

GAGE(corrected).--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, 75 ft upstream on highway bridge at same datum.

REMARKS.--Records good. Maximum discharge, 540 ft^3/s, Oct. 1, gage height 43.48 ft, occurred on recession following peak of Sept. 27, 1998; maximum independent peak discharge, 90 ft^3/s, Jan. 25, gage height 40.29 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	526	27	19	22	38	15	3.9	4.5	4.5	60	12	52
2	502	26	18	22	38	15	4.0	4.4	6.0	62	12	77
3	474	25	18	32	42	14	4.0	4.5	4.6	60	13	68
4	446	26	18	38	41	14	3.8	4.2	4.3	56	15	60
5	420	63	19	36	40	13	3.8	3.8	4.9	50	17	56
6	395	71	18	34	36	13	3.8	3.5	7.7	45	17	53
7	370	59	17	33	35	12	3.8	3.3	13	41	24	52
8	345	52	17	32	34	12	3.9	3.3	9.9	37	23	52
9	311	47	17	31	33	11	3.9	3.6	11	33	19	43
10	282	43	17	29	31	10	3.7	5.4	8.3	28	20	35
11	251	41	17	29	30	9.7	3.6	4.9	10	25	20	38
12	223	35	17	27	28	9.3	3.5	5.6	7.6	25	20	28
13	197	32	17	25	27	9.0	3.4	7.3	8.0	22	20	29
14	170	30	21	24	27	8.9	3.5	7.1	7.8	20	21	27
15	138	29	20	24	27	10	3.4	7.0	6.9	19	19	23
16	107	28	18	25	25	9.7	3.3	6.1	7.9	18	17	21
17	84	28	17	24	24	9.0	3.5	5.4	23	16	18	19
18	72	27	16	23	23	8.4	5.0	7.7	44	16	23	18
19	62	27	16	23	22	8.0	4.7	9.0	49	16	23	21
20	55	27	17	23	22	7.1	4.3	7.9	56	16	26	24
21	51	26	16	23	21	6.4	3.7	5.4	61	15	29	30
22	47	26	16	22	20	6.4	3.6	4.7	61	15	37	34
23	43	25	16	23	19	6.6	3.5	4.3	66	16	46	32
24	40	25	16	61	19	6.1	3.4	4.0	56	15	49	26
25	38	25	16	90	18	5.9	3.3	4.0	47	14	50	23
26	36	24	16	89	17	5.6	3.3	3.9	42	14	51	25
27	34	23	16	82	16	5.6	3.2	5.1	50	13	53	32
28	32	22	17	58	16	5.2	3.7	4.4	54	13	54	53
29	31	20	23	49	---	5.2	6.2	4.8	49	12	53	69
30	28	19	25	44	---	4.4	5.2	5.0	48	12	52	74
31	26	---	23	40	---	4.2	---	4.5	---	12	52	---
TOTAL	5836	978	554	1137	769	279.7	115.9	158.6	828.4	816	905	1194
MEAN	188	32.6	17.9	36.7	27.5	9.02	3.86	5.12	27.6	26.3	29.2	39.8
MAX	526	71	25	90	42	15	6.2	9.0	66	62	54	77
MIN	26	19	16	22	16	4.2	3.2	3.3	4.3	12	12	18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

MEAN	152	76.6	83.5	133	115	113	80.5	14.8	32.4	78.2	171	205
MAX	372	228	335	443	556	572	232	28.8	89.1	172	451	386
(WY)	1995	1995	1998	1998	1998	1998	1998	1998	1994	1996	1995	1995
MIN	31.1	17.8	11.0	8.13	14.2	9.02	3.86	5.12	7.60	26.3	18.6	39.8
(WY)	1998	1997	1992	1992	1992	1999	1999	1999	1998	1999	1998	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1992 - 1999	
ANNUAL TOTAL	69123.3		13571.6			
ANNUAL MEAN	189		37.2		104	
HIGHEST ANNUAL MEAN					211	1998
LOWEST ANNUAL MEAN					37.2	1999
HIGHEST DAILY MEAN	733	Feb 22	526	Oct 1	739	Sep 27 1994
LOWEST DAILY MEAN	4.6	Jul 6	3.2	Apr 27	3.1	May 26 1994
ANNUAL SEVEN-DAY MINIMUM	5.3	Jul 2	3.4	Apr 21	3.4	Apr 21 1999
INSTANTANEOUS PEAK FLOW			540	Oct 1	739	Sep 27 1994
INSTANTANEOUS PEAK STAGE			43.48	Oct 1	44.16	Feb 23 1998
10 PERCENT EXCEEDS	554		59		349	
50 PERCENT EXCEEDS	38		21		41	
90 PERCENT EXCEEDS	9.6		4.3		8.3	

280651081502900 TENOROC DITCH (SITE 19) NEAR LAKELAND, FL

LOCATION.--Lat 28°06'51", long 81°50'29", in NE$^1/_4$ sec.30, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on left bank, on state land (Tenoroc Fish Management Area), 3.9 mi northeast of intersection Tenoroc Mine Road and Combee Road, and 8.5 mi northeast of Lakeland.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1996 to March 1999 (discontinued). Records of discharge prior to October 1996 are available in files of the Geological Survey.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	1.4	.97	.87	.93	.72	---	---	---	---	---	---
2	8.8	1.4	.97	.86	.94	.72	---	---	---	---	---	---
3	8.6	1.4	.95	1.2	.92	.72	---	---	---	---	---	---
4	8.2	1.4	.94	.93	.91	.72	---	---	---	---	---	---
5	7.8	1.6	.97	.92	.90	.72	---	---	---	---	---	---
6	7.3	1.6	.93	.91	.88	.70	---	---	---	---	---	---
7	6.9	1.5	.92	.89	.88	.70	---	---	---	---	---	---
8	6.5	1.5	.91	.88	.85	.70	---	---	---	---	---	---
9	5.9	1.4	.91	.88	.83	.68	---	---	---	---	---	---
10	5.4	1.4	.91	.88	.82	.68	---	---	---	---	---	---
11	4.8	1.4	.91	.88	.81	.68	---	---	---	---	---	---
12	4.3	1.4	.91	.88	.81	.66	---	---	---	---	---	---
13	3.9	1.3	.93	.88	.81	.67	---	---	---	---	---	---
14	3.5	1.3	.95	.88	.77	.72	---	---	---	---	---	---
15	3.2	1.3	.92	.85	.76	.72	---	---	---	---	---	---
16	2.9	1.3	.90	.85	.77	.68	---	---	---	---	---	---
17	2.7	1.2	.90	.85	.74	.66	---	---	---	---	---	---
18	2.6	1.2	.90	.86	.74	.65	---	---	---	---	---	---
19	2.4	1.2	.90	.86	.75	.64	---	---	---	---	---	---
20	2.2	1.1	.88	.86	.73	.62	---	---	---	---	---	---
21	1.9	1.1	.89	.86	.74	.61	---	---	---	---	---	---
22	1.7	1.1	.89	.85	.74	.62	---	---	---	---	---	---
23	1.7	1.1	.90	.82	.73	.61	---	---	---	---	---	---
24	1.7	1.1	.88	1.0	.73	.61	---	---	---	---	---	---
25	1.6	1.1	.88	.93	.73	.61	---	---	---	---	---	---
26	1.6	1.0	.88	.93	.72	.60	---	---	---	---	---	---
27	1.5	1.0	.88	.93	.72	.60	---	---	---	---	---	---
28	1.5	1.0	.89	.93	.71	.60	---	---	---	---	---	---
29	1.5	1.0	.88	.93	---	.59	---	---	---	---	---	---
30	1.4	.98	.88	.93	---	.59	---	---	---	---	---	---
31	1.4	---	.86	.93	---	.59	---	---	---	---	---	---
MEAN	4.02	1.26	.91	.90	.80	.66	---	---	---	---	---	---
MAX	9.2	1.6	.97	1.2	.94	.72	---	---	---	---	---	---
MIN	1.4	.98	.86	.82	.71	.59	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	2.61	1.98	3.28	2.50	2.42	3.09	2.65	1.04	.98	1.98	2.97	2.21
MAX	4.02	3.95	8.15	6.04	6.08	8.27	4.89	1.49	1.22	2.01	4.21	3.84
(WY)	1999	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1998
MIN	1.24	.73	.77	.56	.38	.33	.41	.59	.75	1.95	1.05	1.02
(WY)	1998	1997	1997	1997	1997	1997	1997	1997	1998	1998	1998	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		WATER YEARS 1996 - 1999	
ANNUAL MEAN	3.36		2.61	
HIGHEST ANNUAL MEAN			3.97	1998
LOWEST ANNUAL MEAN			1.24	1997
HIGHEST DAILY MEAN	13	Mar 21	14	Dec 14 1997
LOWEST DAILY MEAN	.66	Jun 23	.28	Mar 7 1997
ANNUAL SEVEN-DAY MINIMUM	.68	Jun 19	.29	Mar 6 1997
INSTANTANEOUS PEAK FLOW			15	Dec 27 1997
INSTANTANEOUS PEAK STAGE			84.81	Dec 14 1997
10 PERCENT EXCEEDS	8.5		6.5	
50 PERCENT EXCEEDS	1.6		1.2	
90 PERCENT EXCEEDS	.88		.48	

280634081513200 TENOROC DITCH (SITE 11) NEAR LAKELAND, FL

LOCATION.--Lat 28°06'34", long 81°51'32", in NE$^1/_4$ sec.25, T.27 S., R.24 E., Polk County, Hydrologic Unit 03100101, on left bank, on state land (Tenoroc Fish Management Area), 2.8 mi southeast of intersection Tenoroc Mine Road and Combee Road, and 7.5 mi northeast of Lakeland.
DRAINAGE AREA.--Not determined.
PERIOD OF RECORD.--August 1996 to March 1999 (discontinued). Records of discharge prior to October 1996 are available in files of the Geological Survey.
GAGE.--Water-stage recorder. Datum of gage has not been determined.
REMARKS.--Records good except those for estimated daily discharges, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	.00	.00	e.00	.00	.00	---	---	---	---	---	---
2	4.6	.00	.00	e.00	.00	.00	---	---	---	---	---	---
3	4.8	.00	.00	e.00	.00	.00	---	---	---	---	---	---
4	4.4	.02	.00	e.00	.00	.00	---	---	---	---	---	---
5	3.9	.11	.00	e.00	.00	.00	---	---	---	---	---	---
6	3.3	.07	e.00	e.00	.00	.00	---	---	---	---	---	---
7	2.8	.05	e.00	e.00	.00	.00	---	---	---	---	---	---
8	2.3	.03	e.00	e.00	.00	.00	---	---	---	---	---	---
9	1.9	.03	e.00	e.00	.00	.00	---	---	---	---	---	---
10	1.5	.02	e.00	e.00	.00	.00	---	---	---	---	---	---
11	1.2	.01	e.00	e.00	.00	.00	---	---	---	---	---	---
12	.95	.01	e.00	e.00	.00	.00	---	---	---	---	---	---
13	.78	.01	e.00	e.00	.00	.00	---	---	---	---	---	---
14	.67	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
15	.51	.00	.00	e.00	.00	.00	---	---	---	---	---	---
16	.41	.00	.00	e.00	.00	.00	---	---	---	---	---	---
17	.32	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
18	.24	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
19	.21	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
20	.22	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
21	.20	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
22	.18	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
23	.12	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
24	.09	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
25	.06	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
26	.03	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
27	.01	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
28	.01	.00	e.00	e.00	.00	.00	---	---	---	---	---	---
29	.00	.00	e.00	e.00	---	.00	---	---	---	---	---	---
30	.00	.00	e.00	e.00	---	.00	---	---	---	---	---	---
31	.00	---	e.00	e.00	---	.00	---	---	---	---	---	---
TOTAL	40.81	0.36	0.00	0.00	0.00	0.00	---	---	---	---	---	---
MEAN	1.32	.012	.000	.000	.000	.000	---	---	---	---	---	---
MAX	5.1	.11	.00	.00	.00	.00	---	---	---	---	---	---
MIN	.00	.00	.00	.00	.00	.00	---	---	---	---	---	---
AC-FT	81	.7	.00	.00	.00	.00	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	1.97	2.09	7.45	3.81	3.48	4.69	1.19	.044	1.22	1.40	3.28	1.46
MAX	4.05	5.60	20.2	10.5	10.3	14.1	2.37	.078	2.45	2.48	5.54	1.89
(WY)	1997	1998	1998	1998	1998	1998	1998	1998	1997	1997	1996	1998
MIN	.53	.012	.000	.000	.000	.000	.014	.010	.000	.33	.026	.66
(WY)	1998	1999	1999	1999	1999	1997	1997	1997	1998	1998	1998	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		WATER YEARS 1996 - 1999	
ANNUAL TOTAL	1232.26			
ANNUAL MEAN	3.38		3.49	
HIGHEST ANNUAL MEAN			5.48	1998
LOWEST ANNUAL MEAN			1.51	1997
HIGHEST DAILY MEAN	26	Mar 21	38	Dec 14 1997
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 16	.00	Feb 24 1997
INSTANTANEOUS PEAK FLOW			39	Dec 13 1997
INSTANTANEOUS PEAK STAGE			84.05	Dec 14 1997
ANNUAL RUNOFF (AC-FT)	2440		2530	
10 PERCENT EXCEEDS	13		8.2	
50 PERCENT EXCEEDS	.09		.43	
90 PERCENT EXCEEDS	.00		.00	

280557081512300 TENOROC DITCH (SITE 13) NEAR LAKELAND, FL

LOCATION.--Lat 28°05'57", long 81°51'23", in NE 1/4 sec.36, T.27 S., R.24 E., Polk County, Hydrologic Unit 03100101, on right bank, on state land (Tenoroc Fish Management Area), 2.9 mi southeast of intersection Tenoroc Mine Road and Combee Road, and 7.0 mi northeast of Lakeland.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1996 to March 1999 (discontinued). Records of discharge prior to October 1996 are available in files of the Geological Survey.

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

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.9	1.4	.54	.35	.59	.11	---	---	---	---	---	---
2	7.8	1.3	.50	.33	1.6	.09	---	---	---	---	---	---
3	8.8	1.3	.48	.26	1.7	.08	---	---	---	---	---	---
4	8.5	1.4	.44	.21	1.6	.06	---	---	---	---	---	---
5	8.2	2.4	.60	.17	1.5	.05	---	---	---	---	---	---
6	7.8	2.3	.58	.13	1.5	.04	---	---	---	---	---	---
7	7.4	2.1	.53	.11	1.4	.03	---	---	---	---	---	---
8	7.1	1.9	.49	.10	1.3	.02	---	---	---	---	---	---
9	6.7	1.8	.48	.11	1.3	.01	---	---	---	---	---	---
10	6.4	1.8	.44	.13	1.2	.01	---	---	---	---	---	---
11	6.0	1.7	.43	.11	1.1	.01	---	---	---	---	---	---
12	5.6	1.7	.40	.10	1.0	.01	---	---	---	---	---	---
13	5.2	1.6	.42	.09	.92	.01	---	---	---	---	---	---
14	4.9	1.6	.58	.09	.75	.01	---	---	---	---	---	---
15	4.5	1.5	.51	.09	.63	.03	---	---	---	---	---	---
16	4.2	1.5	.42	.09	.54	.02	---	---	---	---	---	---
17	3.9	1.4	.38	.09	.48	.01	---	---	---	---	---	---
18	3.8	1.3	.34	.09	.44	.01	---	---	---	---	---	---
19	3.5	1.2	.31	.09	.42	.01	---	---	---	---	---	---
20	3.3	1.2	.31	.09	.38	.01	---	---	---	---	---	---
21	3.1	1.1	.31	.08	.33	.01	---	---	---	---	---	---
22	2.9	1.0	.32	.08	.29	.00	---	---	---	---	---	---
23	2.6	.92	.32	.08	.23	.00	---	---	---	---	---	---
24	2.4	.90	.31	.10	.19	.00	---	---	---	---	---	---
25	2.2	.94	.31	.03	.16	.00	---	---	---	---	---	---
26	2.1	.88	.33	.02	.14	.00	---	---	---	---	---	---
27	2.0	.82	.33	.02	.13	.00	---	---	---	---	---	---
28	1.8	.74	.33	.02	.11	.00	---	---	---	---	---	---
29	1.8	.64	.37	.02	---	.00	---	---	---	---	---	---
30	1.7	.58	.42	.01	---	.00	---	---	---	---	---	---
31	1.5	---	.38	.01	---	.00	---	---	---	---	---	---
MEAN	4.70	1.36	.42	.11	.78	.021	---	---	---	---	---	---
MAX	8.8	2.4	.60	.35	1.7	.11	---	---	---	---	---	---
MIN	1.5	.58	.31	.01	.11	.00	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	4.31	3.70	9.34	8.13	5.04	6.69	4.44	.78	1.39	3.02	6.43	3.42
MAX	6.24	7.42	24.7	22.0	13.1	19.9	8.80	1.42	2.77	5.67	9.83	5.61
(WY)	1997	1998	1998	1998	1998	1998	1998	1998	1997	1997	1996	1996
MIN	1.98	1.36	.42	.11	.78	.021	.077	.13	.008	.36	.087	2.12
(WY)	1998	1999	1999	1999	1999	1999	1997	1997	1998	1998	1998	1998

SUMMARY STATISTICS	**FOR 1998 CALENDAR YEAR**		**WATER YEARS 1996 - 1999**	
ANNUAL MEAN	6.16		5.75	
HIGHEST ANNUAL MEAN			8.49	1998
LOWEST ANNUAL MEAN			3.00	1997
HIGHEST DAILY MEAN	38	Jan 1	41	Dec 29 1997
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 8	.00	Apr 7 1997
INSTANTANEOUS PEAK FLOW			41	Dec 29 1997
INSTANTANEOUS PEAK STAGE			84.90	Dec 29 1997
10 PERCENT EXCEEDS	21		14	
50 PERCENT EXCEEDS	1.6		2.2	
90 PERCENT EXCEEDS	.00		.01	

280531081520500 TENOROC DITCH ABOVE STRUCTURE (SITE 17A) NEAR LAKELAND, FL

LOCATION.--Lat 28°05'31", long 81°52'05", in NW$^1/_4$ sec.36, T.36 S., R.24 E., Polk County, Hydrologic Unit 03100101, on left bank, upstream from structure (Tenoroc Fish Management Area), 2.3 mi southeast of intersection Tenoroc Mine Road and Combee Road, and 6.4 mi northeast of Lakeland.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1996 to March 1999 (gage heights only), discontinued. Records of gage height prior to October 1996 are available in files of the Geological Survey.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 27.01 ft, Dec. 27, 1997; minimum, 24.56 ft, July 7, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.61 ft, Oct. 2, 3, 4; minimum, 24.66 ft, Mar. 31.

GAGE HEIGHT, FEET, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26.14	25.57	25.00	24.89	24.96	24.85	---	---	---	---	---	---
2	26.16	25.55	24.99	24.89	24.96	24.84	---	---	---	---	---	---
3	26.21	25.46	24.98	25.00	24.97	24.84	---	---	---	---	---	---
4	26.20	25.29	24.98	24.98	24.96	24.83	---	---	---	---	---	---
5	26.20	25.31	25.00	24.97	24.96	24.82	---	---	---	---	---	---
6	26.19	25.25	24.98	24.95	24.96	24.81	---	---	---	---	---	---
7	26.19	25.21	24.97	24.94	24.96	24.81	---	---	---	---	---	---
8	26.18	25.19	24.97	24.94	24.96	24.81	---	---	---	---	---	---
9	26.17	25.18	24.96	24.95	24.95	24.80	---	---	---	---	---	---
10	26.16	25.17	24.96	24.95	24.95	24.79	---	---	---	---	---	---
11	26.14	25.17	24.95	24.94	24.95	24.78	---	---	---	---	---	---
12	26.11	25.16	24.95	24.93	24.95	24.77	---	---	---	---	---	---
13	26.08	25.15	24.95	24.93	24.94	24.77	---	---	---	---	---	---
14	26.05	25.14	24.96	24.93	24.93	24.79	---	---	---	---	---	---
15	26.03	25.13	24.95	24.93	24.92	24.82	---	---	---	---	---	---
16	26.00	25.13	24.94	24.93	24.94	24.80	---	---	---	---	---	---
17	25.97	25.12	24.93	24.93	24.95	24.79	---	---	---	---	---	---
18	25.95	25.11	24.92	24.93	24.96	24.78	---	---	---	---	---	---
19	25.91	25.10	24.92	24.93	24.97	24.78	---	---	---	---	---	---
20	25.89	25.10	24.92	24.93	24.95	24.77	---	---	---	---	---	---
21	25.86	25.09	24.93	24.93	24.92	24.77	---	---	---	---	---	---
22	25.83	25.08	24.93	24.92	24.90	24.76	---	---	---	---	---	---
23	25.79	25.07	24.93	24.93	24.88	24.75	---	---	---	---	---	---
24	25.75	25.08	24.94	25.04	24.88	24.75	---	---	---	---	---	---
25	25.72	25.09	24.93	25.02	24.87	24.74	---	---	---	---	---	---
26	25.70	25.07	24.92	25.00	24.87	24.73	---	---	---	---	---	---
27	25.67	25.05	24.90	24.99	24.87	24.72	---	---	---	---	---	---
28	25.66	25.03	24.91	24.98	24.86	24.71	---	---	---	---	---	---
29	25.63	25.02	24.92	24.98	---	24.70	---	---	---	---	---	---
30	25.61	25.01	24.92	24.98	---	24.69	---	---	---	---	---	---
31	25.59	---	24.90	24.98	---	24.67	---	---	---	---	---	---
MEAN	25.96	25.17	24.95	24.95	24.93	24.78	---	---	---	---	---	---
MAX	26.21	25.57	25.00	25.04	24.97	24.85	---	---	---	---	---	---
MIN	25.59	25.01	24.90	24.89	24.86	24.67	---	---	---	---	---	---

CAL YR 1998 MEAN 25.68 MAX 26.83 MIN 24.58

280531081520501 TENOROC DITCH BELOW STRUCTURE (SITE 17A) NEAR LAKELAND, FL

LOCATION.--Lat 28°05'31", long 81°52'05", in NW 1/4 sec.36, T.36 S., R.24 E., Polk County, Hydrologic Unit 03100101, on left bank, downstream from structure (Tenoroc Fish Management Area), 2.3 mi southeast of intersection Tenoroc Mine Road and Combee Road, and 6.4 mi northeast of Lakeland.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1996 to March 1999 (discontinued). Records of discharge prior to October 1996 are available in files of the Geological Survey.

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

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	4.9	2.0	1.5	2.4	1.2	---	---	---	---	---	---
2	21	4.6	1.9	1.4	2.4	1.1	---	---	---	---	---	---
3	22	8.2	2.0	2.5	2.4	1.0	---	---	---	---	---	---
4	22	7.9	2.2	2.0	2.4	1.0	---	---	---	---	---	---
5	21	8.9	2.3	2.0	2.3	.91	---	---	---	---	---	---
6	21	7.1	2.2	1.8	2.3	.79	---	---	---	---	---	---
7	20	6.4	2.1	1.7	2.3	.74	---	---	---	---	---	---
8	19	5.9	2.0	1.7	2.3	.68	---	---	---	---	---	---
9	18	5.6	2.0	1.8	2.2	.73	---	---	---	---	---	---
10	18	5.4	1.8	1.9	2.1	.71	---	---	---	---	---	---
11	17	5.1	1.9	1.8	2.0	.62	---	---	---	---	---	---
12	16	4.9	1.8	1.7	2.0	.52	---	---	---	---	---	---
13	15	4.9	1.8	1.7	2.0	.47	---	---	---	---	---	---
14	14	4.8	1.7	1.7	1.9	.68	---	---	---	---	---	---
15	13	4.5	1.7	1.8	1.7	.87	---	---	---	---	---	---
16	12	4.4	1.5	1.9	1.3	.72	---	---	---	---	---	---
17	11	4.1	1.4	1.9	1.4	.60	---	---	---	---	---	---
18	11	3.9	1.4	1.8	1.4	.57	---	---	---	---	---	---
19	9.7	e3.4	1.3	1.8	1.7	.55	---	---	---	---	---	---
20	9.3	3.0	1.3	1.8	1.8	.51	---	---	---	---	---	---
21	8.9	3.0	1.3	1.7	1.7	.49	---	---	---	---	---	---
22	8.5	2.8	1.3	1.7	1.5	.44	---	---	---	---	---	---
23	7.8	2.7	1.2	1.6	1.4	.37	---	---	---	---	---	---
24	7.3	2.7	1.3	3.0	1.3	.27	---	---	---	---	---	---
25	7.0	2.8	1.5	2.7	1.3	.25	---	---	---	---	---	---
26	6.6	2.7	1.5	2.5	1.2	.24	---	---	---	---	---	---
27	6.2	2.5	1.4	2.4	1.2	.21	---	---	---	---	---	---
28	6.1	2.3	1.2	2.3	1.2	.17	---	---	---	---	---	---
29	5.8	2.2	1.5	2.2	---	.16	---	---	---	---	---	---
30	5.5	2.1	1.6	2.2	---	.14	---	---	---	---	---	---
31	5.3	---	1.5	2.3	---	.13	---	---	---	---	---	---
MEAN	13.1	4.46	1.66	1.96	1.82	.58	---	---	---	---	---	---
MAX	22	8.9	2.3	3.0	2.4	1.2	---	---	---	---	---	---
MIN	5.3	2.1	1.2	1.4	1.2	.13	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	9.89	7.47	15.5	15.0	11.9	14.8	10.4	2.77	3.30	5.91	13.9	7.30
MAX	13.1	13.4	39.3	39.3	31.8	43.6	20.4	4.51	6.09	10.0	21.1	11.1
(WY)	1999	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1996
MIN	4.39	4.46	1.66	1.96	1.83	.39	.41	1.02	.51	1.80	1.79	5.29
(WY)	1998	1999	1999	1999	1999	1997	1997	1997	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		WATER YEARS 1996 - 1999		
ANNUAL MEAN	13.9		11.6		
HIGHEST ANNUAL MEAN			17.1		1998
LOWEST ANNUAL MEAN			6.11		1997
HIGHEST DAILY MEAN	59	Mar 20	65	Dec 28	1997
LOWEST DAILY MEAN	.08	Jul 9	.03	Mar 13	1997
ANNUAL SEVEN-DAY MINIMUM	.09	Jul 5	.04	Apr 2	1997
INSTANTANEOUS PEAK FLOW			68	Dec 27	1997
INSTANTANEOUS PEAK STAGE			26.31	Dec 27	1997
10 PERCENT EXCEEDS	43		30		
50 PERCENT EXCEEDS	5.3		4.9		
90 PERCENT EXCEEDS	.54		.40		

280531081520501 TENOROC DITCH BELOW STRUCTURE (SITE 17A) NEAR LAKELAND, FL--Continued

GAGE HEIGHT, FEET, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.15	23.16	22.90	22.83	22.95	22.84	---	---	---	---	---	---
2	24.16	23.14	22.89	22.83	22.95	22.83	---	---	---	---	---	---
3	24.25	23.41	22.90	22.96	22.96	22.82	---	---	---	---	---	---
4	24.21	23.40	22.93	22.91	22.95	22.81	---	---	---	---	---	---
5	24.19	23.47	22.94	22.90	22.95	22.80	---	---	---	---	---	---
6	24.17	23.34	22.92	22.88	22.95	22.77	---	---	---	---	---	---
7	24.13	23.28	22.91	22.87	22.95	22.77	---	---	---	---	---	---
8	24.09	23.24	22.90	22.87	22.95	22.76	---	---	---	---	---	---
9	24.05	23.21	22.90	22.87	22.94	22.77	---	---	---	---	---	---
10	24.01	23.19	22.88	22.89	22.94	22.76	---	---	---	---	---	---
11	23.96	23.18	22.89	22.87	22.93	22.74	---	---	---	---	---	---
12	23.90	23.16	22.88	22.87	22.93	22.73	---	---	---	---	---	---
13	23.84	23.16	22.88	22.87	22.92	22.71	---	---	---	---	---	---
14	23.78	23.15	22.86	22.87	22.91	22.76	---	---	---	---	---	---
15	23.72	23.13	22.86	22.88	22.89	22.81	---	---	---	---	---	---
16	23.66	23.12	22.84	22.89	22.84	22.78	---	---	---	---	---	---
17	23.61	23.10	22.83	22.89	22.86	22.76	---	---	---	---	---	---
18	23.59	23.09	22.82	22.88	22.85	22.75	---	---	---	---	---	---
19	23.52	---	22.81	22.87	22.89	22.75	---	---	---	---	---	---
20	23.50	23.02	22.81	22.87	22.92	22.73	---	---	---	---	---	---
21	23.47	23.01	22.81	22.87	22.90	22.73	---	---	---	---	---	---
22	23.44	23.00	22.81	22.87	22.88	22.72	---	---	---	---	---	---
23	23.39	22.98	22.80	22.85	22.86	22.70	---	---	---	---	---	---
24	23.35	22.98	22.80	23.01	22.85	22.67	---	---	---	---	---	---
25	23.33	22.99	22.84	22.98	22.85	22.66	---	---	---	---	---	---
26	23.29	22.98	22.84	22.96	22.84	22.66	---	---	---	---	---	---
27	23.26	22.96	22.82	22.95	22.83	22.65	---	---	---	---	---	---
28	23.25	22.94	22.79	22.94	22.84	22.63	---	---	---	---	---	---
29	23.23	22.93	22.83	22.93	---	22.63	---	---	---	---	---	---
30	23.20	22.92	22.85	22.92	---	22.62	---	---	---	---	---	---
31	23.18	---	22.83	22.94	---	22.61	---	---	---	---	---	---
MEAN	23.71	---	22.86	22.90	22.90	22.73	---	---	---	---	---	---
MAX	24.25	---	22.94	23.01	22.96	22.84	---	---	---	---	---	---
MIN	23.18	---	22.79	22.83	22.83	22.61	---	---	---	---	---	---

280441081520200 TENOROC DITCH (SITE 17B) NEAR LAKELAND, FL

LOCATION.--Lat 28°04'41", long 81°52'02", in NE$^1/_4$ sec.1, T.28 S., R.25 E., Polk County, Hydrologic Unit 03100101, on right bank, on state land (Tenoroc Fish Management Area), 2.6 mi southeast of intersection Tenoroc Mine Road and Combee Road, and 5.5 mi northeast of Lakeland.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--August 1996 to March 1999 (discontinued). Records of discharge prior to October 1996 are available in files of the Geological Survey.

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

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	7.3	3.6	2.1	3.0	e1.6	---	---	---	---	---	---
2	20	7.0	3.5	2.1	3.0	e1.5	---	---	---	---	---	---
3	23	7.9	3.2	4.1	e3.0	e1.4	---	---	---	---	---	---
4	23	10	3.1	5.0	e3.0	e1.4	---	---	---	---	---	---
5	22	13	3.5	3.7	e3.0	e1.3	---	---	---	---	---	---
6	22	12	3.5	3.4	e3.0	e1.2	---	---	---	---	---	---
7	21	9.9	3.3	3.5	e3.0	e1.2	---	---	---	---	---	---
8	21	9.0	3.1	3.0	e3.0	e1.1	---	---	---	---	---	---
9	20	8.4	3.0	2.7	e2.9	e1.0	---	---	---	---	---	---
10	20	8.1	2.9	2.6	e2.8	e.96	---	---	---	---	---	---
11	19	7.9	2.8	2.6	e2.7	e.92	---	---	---	---	---	---
12	18	7.6	2.8	2.4	e2.7	e.85	---	---	---	---	---	---
13	17	7.4	2.7	2.4	e2.6	e.78	---	---	---	---	---	---
14	17	7.3	2.9	2.3	e2.6	e1.0	---	---	---	---	---	---
15	16	7.1	2.7	2.3	e2.5	e1.2	---	---	---	---	---	---
16	15	6.9	2.5	2.4	e2.3	e1.0	---	---	---	---	---	---
17	14	6.8	2.3	2.4	e2.4	e.97	---	---	---	---	---	---
18	14	6.4	2.1	2.3	e2.5	e.88	---	---	---	---	---	---
19	13	6.0	2.0	2.3	e2.6	e.82	---	---	---	---	---	---
20	12	5.8	2.0	2.2	e2.8	e.80	---	---	---	---	---	---
21	12	5.6	2.0	2.2	e2.7	e.75	---	---	---	---	---	---
22	11	5.2	2.0	2.2	e2.4	e.70	---	---	---	---	---	---
23	10	4.9	2.0	2.1	e2.2	e.62	---	---	---	---	---	---
24	10	4.7	1.9	3.9	e2.0	e.50	---	---	---	---	---	---
25	9.5	4.8	1.9	5.1	e1.8	e.44	---	---	---	---	---	---
26	9.1	4.8	2.1	4.4	e1.7	e.40	---	---	---	---	---	---
27	8.7	4.6	2.2	3.8	e1.6	e.38	---	---	---	---	---	---
28	8.4	4.3	2.1	3.5	e1.7	e.33	---	---	---	---	---	---
29	8.1	4.0	2.0	3.2	---	e.28	---	---	---	---	---	---
30	7.8	3.8	2.3	3.0	---	e.23	---	---	---	---	---	---
31	7.5	---	2.2	2.9	---	e.20	---	---	---	---	---	---
MEAN	15.1	6.95	2.59	2.97	2.55	.86	---	---	---	---	---	---
MAX	23	13	3.6	5.1	3.0	1.6	---	---	---	---	---	---
MIN	7.5	3.8	1.9	2.1	1.6	.20	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	10.7	9.45	21.0	17.0	15.5	18.3	11.5	3.78	5.01	8.38	18.7	9.50
MAX	15.1	16.6	53.0	43.3	41.4	52.8	21.8	5.99	9.47	13.5	28.3	11.9
(WY)	1999	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1996
MIN	5.17	4.79	2.59	2.97	2.55	.86	1.19	1.56	.55	3.26	2.57	7.62
(WY)	1998	1997	1999	1999	1999	1999	1997	1997	1998	1998	1998	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		WATER YEARS 1996 - 1999	
ANNUAL MEAN	17.0		14.6	
HIGHEST ANNUAL MEAN			21.2	1998
LOWEST ANNUAL MEAN			7.92	1997
HIGHEST DAILY MEAN	100	Mar 20	101	Dec 28 1997
LOWEST DAILY MEAN	.10	Jul 5	.10	Jul 5 1998
ANNUAL SEVEN-DAY MINIMUM	.14	Jul 1	.14	Jul 1 1998
INSTANTANEOUS PEAK FLOW			113	Dec 27 1997
INSTANTANEOUS PEAK STAGE			87.45	Dec 27 1997
10 PERCENT EXCEEDS	49		37	
50 PERCENT EXCEEDS	7.6		6.5	
90 PERCENT EXCEEDS	.88		.92	

280242081531600 TENOROC DITCH (SITE 20) NEAR LAKELAND, FL

LOCATION.--Lat 28°02'42", long 81°53'16", in NE1/4 sec.3, T.28 S., R.24 E., Polk County, Hydrologic Unit 03100101, on left bank, on private land adjacent to state land (Tenoroc Fish Management Area), 1.6 mi southeast of intersection Tenoroc Mine Road and Combee Road, and 4.6 mi northeast of Lakeland.
DRAINAGE AREA.--Not determined.
PERIOD OF RECORD.--August 1996 to March 1999 (discontinued). Records of discharge prior to October 1996 are available in files of the Geological Survey.
GAGE.--Water-stage recorder. Datum of gage has not been determined.
REMARKS.--Records good except for estimated daily discharges, Dec. 29 to Jan. 31, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD OCTOBER 1998 TO MARCH 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	.38	.11	e.05	.07	.01	---	---	---	---	---	---
2	21	.35	.09	e.04	.08	.02	---	---	---	---	---	---
3	25	.31	.09	e.04	.09	.04	---	---	---	---	---	---
4	22	.38	.08	e.07	.07	.05	---	---	---	---	---	---
5	19	.84	.10	e.10	.08	.05	---	---	---	---	---	---
6	17	.75	.08	e.08	.09	.06	---	---	---	---	---	---
7	15	.70	.08	e.07	.10	.07	---	---	---	---	---	---
8	13	.65	.07	e.07	.10	.07	---	---	---	---	---	---
9	11	.59	.08	e.07	.11	.08	---	---	---	---	---	---
10	9.5	.53	.09	e.07	.11	.09	---	---	---	---	---	---
11	8.3	.49	.09	e.06	.10	.10	---	---	---	---	---	---
12	7.3	.43	.09	e.06	.09	.12	---	---	---	---	---	---
13	6.3	.40	.11	e.05	.06	.11	---	---	---	---	---	---
14	5.6	.37	.12	e.05	.05	.12	---	---	---	---	---	---
15	4.9	.34	.07	e.05	.05	.15	---	---	---	---	---	---
16	4.2	.32	.07	e.04	.05	.08	---	---	---	---	---	---
17	3.6	.30	.08	e.05	.07	.10	---	---	---	---	---	---
18	3.2	.27	.07	e.05	.03	.12	---	---	---	---	---	---
19	2.8	.25	.07	e.05	.02	.12	---	---	---	---	---	---
20	2.4	.24	.10	e.04	.01	.13	---	---	---	---	---	---
21	2.2	.22	.10	e.04	.01	.12	---	---	---	---	---	---
22	1.9	.22	.06	e.04	.02	.11	---	---	---	---	---	---
23	1.5	.20	.06	e.04	.02	.08	---	---	---	---	---	---
24	1.2	.18	.09	e.04	.01	.09	---	---	---	---	---	---
25	.99	.17	.08	e.07	.01	.10	---	---	---	---	---	---
26	.84	.16	.07	e.10	.01	.11	---	---	---	---	---	---
27	.73	.15	.05	e.09	.01	.12	---	---	---	---	---	---
28	.62	.14	.05	e.08	.01	.11	---	---	---	---	---	---
29	.53	.13	e.05	e.07	---	.11	---	---	---	---	---	---
30	.47	.11	e.05	e.07	---	.10	---	---	---	---	---	---
31	.43	---	e.05	e.08	---	.07	---	---	---	---	---	---
MEAN	7.60	.35	.079	.061	.055	.091	---	---	---	---	---	---
MAX	25	.84	.12	.10	.11	.15	---	---	---	---	---	---
MIN	.43	.11	.05	.04	.01	.01	---	---	---	---	---	---

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1999, BY WATER YEAR (WY)

MEAN	6.51	3.98	14.7	6.31	9.18	9.78	1.56	.078	1.28	2.57	5.46	5.14
MAX	9.08	11.3	43.6	18.7	27.4	29.2	3.02	.13	2.50	4.98	9.58	7.88
(WY)	1997	1998	1998	1998	1998	1998	1998	1998	1997	1997	1997	1998
MIN	2.86	.30	.079	.061	.055	.065	.097	.026	.052	.15	.20	1.10
(WY)	1998	1997	1999	1999	1999	1997	1997	1997	1998	1998	1998	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		WATER YEARS 1996 - 1999	
ANNUAL MEAN	7.79		7.19	
HIGHEST ANNUAL MEAN			12.0	1998
LOWEST ANNUAL MEAN			2.40	1997
HIGHEST DAILY MEAN	77	Mar 21	98	Dec 14 1997
LOWEST DAILY MEAN	.04	May 26	.01	May 15 1997
ANNUAL SEVEN-DAY MINIMUM	.04	Jun 2	.01	May 15 1997
INSTANTANEOUS PEAK FLOW			101	Dec 14 1997
INSTANTANEOUS PEAK STAGE			86.31	Dec 14 1997
10 PERCENT EXCEEDS	25		19	
50 PERCENT EXCEEDS	.44		.41	
90 PERCENT EXCEEDS	.05		.04	

02294217 SADDLE CREEK AT STATE HIGHWAY 542 NEAR LAKELAND, FL

LOCATION.--Lat 28°02'38", long 81°52'35", 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^2, 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 recorder. Datum of gage is 90.00 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Maximum discharge, 220 ft^3/s, Oct. 1, gage height 15.21 ft, occurred on recession following peak of Sept. 26, 1998; maximum independent peak discharge, 83 ft^3/s, Aug. 26, gage height 14.08 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	214	12	6.2	3.5	5.7	.37	.14	.10	.02	8.9	2.9	13
2	203	11	5.8	3.4	5.8	.30	.14	.06	.01	4.6	2.7	11
3	199	11	5.4	7.2	5.9	.30	.13	.02	.01	3.7	2.7	9.2
4	193	12	5.4	6.6	6.0	.28	.12	.00	.02	4.1	3.4	8.2
5	180	20	5.6	6.0	5.6	.24	.11	.00	e.02	9.0	5.0	7.2
6	168	18	5.2	5.4	5.4	.25	.09	.00	e.05	13	14	9.1
7	159	16	5.0	5.2	4.9	.24	.08	.15	e.04	11	11	12
8	149	15	4.8	4.9	4.5	.34	.07	2.2	e.02	7.0	7.5	10
9	139	14	4.7	4.9	4.2	.44	.06	.66	.44	5.9	7.2	12
10	128	13	4.6	5.0	4.0	.41	.04	.36	4.3	5.4	11	17
11	119	13	4.5	4.7	3.6	.34	.02	.24	1.6	3.5	10	13
12	111	12	4.4	4.9	1.5	.34	.01	.18	.95	2.3	8.9	9.8
13	92	12	4.6	5.0	1.2	.43	.00	.33	.57	1.7	7.8	7.3
14	67	11	5.0	5.1	1.0	.55	.00	.67	.43	1.5	6.4	4.9
15	50	11	4.5	5.1	.91	.64	.00	3.4	.29	1.1	9.0	4.0
16	40	11	4.2	5.4	.77	.49	.00	1.1	1.2	.74	48	3.2
17	33	11	4.0	5.4	.72	.44	.00	.52	1.1	.69	35	2.5
18	30	10	3.8	5.4	.69	.30	.00	.21	3.9	.44	38	2.4
19	27	9.8	3.7	5.2	.67	.32	.00	.11	7.5	4.9	37	4.8
20	24	9.3	3.9	5.2	.72	.46	.00	.31	4.3	8.1	51	7.7
21	23	8.8	4.0	5.0	.70	.61	.00	.27	2.2	7.7	61	13
22	22	8.2	4.1	4.9	.61	.51	.00	.23	1.4	6.9	63	12
23	20	7.6	3.9	4.8	.56	.41	.00	.18	2.1	6.4	68	8.4
24	18	7.4	3.5	9.4	.55	.32	.00	.13	6.5	5.7	75	6.3
25	17	7.3	3.4	8.9	.50	.28	.00	.10	5.8	5.1	80	6.0
26	16	7.3	3.3	8.2	.60	.26	.00	.07	3.9	5.3	82	6.9
27	16	7.2	3.3	7.6	.69	.24	.00	.05	2.7	5.4	75	10
28	15	6.9	3.3	7.1	.45	.23	.01	.04	6.9	4.7	60	47
29	14	6.6	3.4	6.8	---	.20	.15	.03	4.5	4.0	27	36
30	13	6.4	3.7	6.4	---	.18	.23	.05	17	3.7	27	34
31	13	---	3.6	6.1	---	.16	---	.04	---	3.5	25	---
TOTAL	2512	325.8	134.8	178.7	68.44	10.88	1.40	11.81	79.77	155.97	961.5	347.9
MEAN	81.0	10.9	4.35	5.76	2.44	.35	.047	.38	2.66	5.03	31.0	11.6
MAX	214	20	6.2	9.4	6.0	.64	.23	3.4	17	13	82	47
MIN	13	6.4	3.3	3.4	.45	.16	.00	.00	.01	.44	2.7	2.4
AC-FT	4980	646	267	354	136	22	2.8	23	158	309	1910	690
CFSM	1.53	.20	.08	.11	.05	.01	.00	.01	.05	.09	.59	.22
IN.	1.76	.23	.09	.13	.05	.01	.00	.01	.06	.11	.67	.24

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 1999, BY WATER YEAR (WY)

MEAN	43.0	34.6	79.0	53.2	57.8	79.9	35.1	12.2	10.4	31.4	57.4	69.5
MAX	81.0	97.6	286	188	208	253	94.6	45.9	32.1	99.9	115	219
(WY)	1999	1998	1998	1998	1998	1998	1987	1987	1997	1997	1997	1988
MIN	8.23	10.9	4.35	5.76	2.44	.35	.047	.38	.73	5.03	4.18	11.6
(WY)	1988	1999	1999	1999	1999	1999	1999	1999	1988	1999	1998	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1987 - 1999	
ANNUAL TOTAL	28285.65		4788.97			
ANNUAL MEAN	77.5		13.1		47.0	
HIGHEST ANNUAL MEAN					104	1998
LOWEST ANNUAL MEAN					13.1	1999
HIGHEST DAILY MEAN	516	Mar 21	214	Oct 1	597	Dec 14 1997
LOWEST DAILY MEAN	.63	Jul 5	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.71	Jun 30	.00	Apr 13	.00	Apr 13 1999
INSTANTANEOUS PEAK FLOW			220	Oct 1	609	Dec 14 1997
INSTANTANEOUS PEAK STAGE			15.21	Oct 1	16.63	Dec 14 1997
ANNUAL RUNOFF (AC-FT)	56100		9500		34030	
ANNUAL RUNOFF (CFSM)	1.46		.25		.89	
ANNUAL RUNOFF (INCHES)	19.85		3.36		12.04	
10 PERCENT EXCEEDS	248		27		155	
50 PERCENT EXCEEDS	15		4.6		12	
90 PERCENT EXCEEDS	1.2		.06		.70	

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

LOCATION.--Lat 27°56'17", long 81°51'05", 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^2.

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

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

REMARKS.--Records poor. Flow regulated by structure P-11. Maximum discharge, 631 ft^3/s, Oct. 1, gage height 15.56 ft, occurred on recession following peak of Sept. 30, 1998; maximum independent peak discharge, 326 ft^3/s, Sept. 20, gage height 14.32 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	622	6.0	.39	.14	.09	.09	.09	.07	.07	50	64	33
2	615	4.3	e.36	.15	.10	.09	.09	.07	.07	90	37	9.8
3	598	1.1	.34	.23	.09	.09	.09	.07	.07	91	1.8	9.1
4	579	1.2	.35	.16	.09	.09	.09	.07	.06	90	2.8	8.2
5	560	94	.37	.11	.09	.10	.09	.07	.06	90	1.8	7.9
6	538	155	.32	.09	.09	.09	.09	.07	.05	90	1.9	7.4
7	516	154	.31	.08	.09	.09	.09	.07	.05	70	1.5	6.6
8	492	152	.32	.08	.09	.09	.09	.07	.05	58	1.4	6.9
9	472	76	.31	.08	.09	.09	.08	.07	.05	57	2.3	7.0
10	450	1.8	.30	.08	.09	.09	.08	.07	.05	57	1.0	7.1
11	429	.84	.29	.08	.09	.09	.08	.07	.05	56	.92	8.0
12	408	.76	.27	.08	.09	.09	.08	.07	.06	27	1.9	8.3
13	340	.74	.31	.08	.09	.09	.07	.08	.07	.59	1.2	8.3
14	294	.74	.26	.08	.09	.10	.07	.12	.07	.49	1.1	86
15	183	.74	.25	.08	.08	.09	.08	.08	.70	.35	1.3	135
16	101	.67	.25	.08	.08	.09	.08	.07	.11	.24	1.6	60
17	97	.65	.23	.08	.09	.09	.09	.07	.08	.27	1.5	4.8
18	94	.69	.22	.08	.09	.09	.08	.07	.08	.31	1.4	9.7
19	91	.74	.22	.09	.09	.09	.08	.07	.08	.44	1.4	8.6
20	87	.73	.22	.09	.09	.09	.08	.07	.08	.47	61	108
21	86	.62	.21	.09	.09	.09	.08	.07	.07	.84	99	253
22	85	.58	.19	.09	.09	.09	.08	.07	.07	1.2	101	136
23	86	.53	.15	.10	.09	.09	.08	.07	.12	.62	150	73
24	83	.51	.14	.10	.09	.09	.08	.07	.66	.41	210	72
25	81	.47	.15	.09	.09	.09	.08	.07	.94	.39	207	71
26	39	.45	.16	.09	.09	.09	.08	.07	.30	.39	125	71
27	13	.43	.14	.09	.09	.09	.08	.07	.45	30	69	105
28	16	.39	.13	.09	.09	.09	.14	.07	.39	83	136	131
29	8.9	.39	.14	.09	---	.09	.09	.07	.10	73	133	131
30	6.4	.39	.15	.09	---	.09	.08	.07	.10	70	107	130
31	5.7	---	.15	.09	---	.09	---	.07	---	64	65	---
TOTAL	8076.0	657.46	7.60	3.03	2.51	2.81	2.54	2.24	5.16	1153.01	1590.82	1712.7
MEAN	261	21.9	.25	.098	.090	.091	.085	.072	.17	37.2	51.3	57.1
MAX	622	155	.39	.23	.10	.10	.14	.12	.94	91	210	253
MIN	5.7	.39	.13	.08	.08	.09	.07	.07	.05	.24	.92	4.8

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

MEAN	69.8	31.2	36.0	58.4	64.2	70.1	50.6	17.7	33.9	74.8	119	113
MAX	288	204	505	516	444	647	265	290	207	290	693	395
(WY)	1980	1998	1998	1998	1998	1998	1983	1979	1982	1982	1995	1995
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1968	1968	1968	1968	1968	1968	1966	1968	1965	1967	1967	1980

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1965 - 1999	
ANNUAL TOTAL	71043.67		13215.88			
ANNUAL MEAN	195		36.2		61.7	
HIGHEST ANNUAL MEAN					234	1998
LOWEST ANNUAL MEAN					.25	1975
HIGHEST DAILY MEAN	816	Jan 1	622	Oct 1	831	Aug 5 1995
LOWEST DAILY MEAN	.00	Jul 7, 8, 9	.05	Jun 6	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.04	Jul 6	.05	Jun 5	.00	Apr 28 1965
INSTANTANEOUS PEAK FLOW			631	Oct 1	894	Aug 15 1995
INSTANTANEOUS PEAK STAGE			15.56	Oct 1	15.90	Aug 15 1995
10 PERCENT EXCEEDS	639		98		223	
50 PERCENT EXCEEDS	54		.16		.74	
90 PERCENT EXCEEDS	.19		.07		.00	

02294650 PEACE RIVER AT BARTOW, FL

LOCATION.--Lat 27°54'07", long 81°49'03", in NE$^1/_4$ sec.4, T.30 S., R.25 E., Polk County, Hydrologic Unit 03100101, near center of span on downstream side of 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^2.

WATER-DISCHARGE RECORDS

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 recorder. 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 good. 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. Maximum discharge from rating curve extended above 2,900 ft^3/s. Maximum discharge, 1,620 ft^3/s, Oct. 1, gage height 8.58 ft, occurred on recession following peak of Sept. 29, 1998; maximum independent peak discharge, 306 ft^3/s, Sept. 21, gage height 6.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	70	35	33	65	18	4.0	6.3	1.7	109	68	112
2	1530	67	33	31	62	16	3.9	4.3	1.5	158	63	97
3	1450	61	32	46	64	16	3.7	3.7	2.4	181	26	93
4	1350	62	33	50	63	16	3.6	3.4	2.0	186	17	93
5	1250	128	33	53	62	15	3.3	3.0	1.8	188	22	90
6	1160	213	31	53	59	14	3.4	2.2	1.6	181	26	87
7	1080	231	30	50	54	13	3.1	2.3	5.5	163	24	84
8	1010	233	28	47	51	13	3.0	3.3	8.8	125	29	82
9	946	210	27	46	49	12	2.9	5.6	9.4	115	33	79
10	890	124	26	45	47	12	2.8	6.1	11	107	36	74
11	834	106	25	42	44	10	2.7	5.2	6.4	96	34	86
12	786	96	25	41	42	9.4	2.6	5.6	12	82	37	76
13	725	87	29	38	39	9.1	2.4	7.0	13	51	34	69
14	622	82	34	35	36	10	2.2	12	6.1	41	28	94
15	533	76	33	34	34	12	2.4	13	6.5	35	28	176
16	375	71	31	33	33	12	2.3	8.1	13	31	27	153
17	330	66	27	33	32	11	4.2	6.3	9.8	27	25	67
18	303	64	24	31	30	9.9	3.8	4.7	31	27	28	52
19	278	61	22	30	29	9.3	4.0	7.8	51	25	33	52
20	255	59	23	29	27	8.6	3.8	9.8	61	23	55	80
21	234	56	24	28	26	6.9	3.2	8.3	67	21	118	278
22	219	54	23	27	24	6.4	2.6	5.9	72	23	129	261
23	207	52	22	27	22	7.0	2.2	3.6	87	29	148	146
24	195	50	22	50	21	6.7	2.0	3.0	98	23	228	121
25	182	50	21	72	21	6.2	1.8	2.5	93	20	257	117
26	154	48	23	87	19	5.8	1.7	2.4	97	24	252	116
27	109	45	22	96	18	e5.6	1.5	2.1	93	25	207	130
28	102	43	22	97	18	e5.3	9.9	2.6	108	93	198	182
29	89	40	29	87	---	5.1	23	2.1	101	88	198	201
30	82	37	35	78	---	5.3	9.8	2.3	101	82	192	214
31	75	---	35	71	---	4.1	---	2.2	---	70	133	---
TOTAL	18945	2642	859	1520	1091	310.7	121.8	156.7	1172.5	2449	2733	3562
MEAN	611	88.1	27.7	49.0	39.0	10.0	4.06	5.05	39.1	79.0	88.2	119
MAX	1590	233	35	97	65	18	23	13	108	188	257	278
MIN	75	37	21	27	18	4.1	1.5	2.1	1.5	20	17	52

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	317	145	134	174	193	233	181	89.2	149	280	389	443
MAX	1411	597	1114	1053	1217	1536	1107	649	1319	1366	1528	2261
(WY)	1954	1954	1954	1998	1998	1998	1959	1957	1959	1959	1960	1960
MIN	20.2	10.3	6.68	8.26	6.75	10.0	4.06	5.05	7.39	18.4	17.5	37.4
(WY)	1991	1991	1991	1991	1991	1999	1999	1999	1989	1981	1989	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	172879.9		35562.7			
ANNUAL MEAN	474		97.4		228	
HIGHEST ANNUAL MEAN					814	1960
LOWEST ANNUAL MEAN					35.2	1985
HIGHEST DAILY MEAN	2110	Feb 23	1590	Oct 1	4100	Sep 24 1947
LOWEST DAILY MEAN	3.8	Jun 25	1.5	Apr 27	1.2	Apr 26 1968
ANNUAL SEVEN-DAY MINIMUM	4.2	Jun 20	1.9	May 31	1.9	May 31 1999
INSTANTANEOUS PEAK FLOW			1620	Oct 1	4140	Sep 24 1947
INSTANTANEOUS PEAK STAGE			8.58	Oct 1	11.01	Sep 13 1960
10 PERCENT EXCEEDS	1450		198		605	
50 PERCENT EXCEEDS	128		33		107	
90 PERCENT EXCEEDS	16		3.4		19	

02294650 PEACE RIVER AT BARTOW, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.56	4.66	3.85	3.80	4.55	3.33	2.71	2.82	2.56	5.11	4.37	5.16
2	8.49	4.59	3.79	3.74	4.50	3.28	2.71	2.73	2.54	5.65	4.26	4.90
3	8.41	4.47	3.77	4.12	4.53	3.26	2.70	2.70	2.61	5.79	3.41	4.83
4	8.31	4.50	3.79	4.21	4.52	3.27	2.69	2.68	2.59	5.82	3.18	4.82
5	8.20	5.38	3.79	4.30	4.50	3.23	2.68	2.65	2.57	5.83	3.32	4.78
6	8.11	5.97	3.75	4.28	4.42	3.19	2.68	2.60	2.55	5.79	3.41	4.73
7	8.01	6.06	3.71	4.22	4.32	3.17	2.66	2.60	2.77	5.68	3.36	4.68
8	7.91	6.07	3.67	4.16	4.24	3.14	2.65	2.64	2.92	5.36	3.49	4.63
9	7.81	5.94	3.63	4.13	4.20	3.12	2.65	2.76	2.92	5.20	3.58	4.58
10	7.72	5.40	3.60	4.11	4.15	3.10	2.64	2.80	3.00	5.07	3.65	4.49
11	7.62	5.21	3.58	4.04	4.09	3.05	2.63	2.77	2.82	4.90	3.61	4.70
12	7.53	5.10	3.55	4.01	4.02	3.00	2.63	2.79	3.00	4.64	3.69	4.53
13	7.42	4.98	3.67	3.93	3.95	2.98	2.62	2.85	3.06	4.02	3.61	4.40
14	7.21	4.89	3.82	3.86	3.88	3.03	2.60	2.99	2.81	3.77	3.48	4.80
15	7.00	4.77	3.79	3.82	3.83	3.09	2.61	3.05	2.81	3.62	3.47	5.77
16	6.57	4.67	3.74	3.80	3.80	3.11	2.61	2.89	3.06	3.53	3.44	5.54
17	6.43	4.59	3.62	3.79	3.76	3.07	2.71	2.82	2.94	3.45	3.39	4.33
18	6.34	4.53	3.53	3.73	3.73	3.02	2.70	2.74	3.54	3.43	3.48	4.02
19	6.24	4.47	3.48	3.70	3.67	2.99	2.71	2.88	4.01	3.39	3.58	4.03
20	6.15	4.42	3.50	3.68	3.62	2.96	2.70	2.95	4.23	3.33	4.06	4.52
21	6.07	4.36	3.53	3.67	3.59	2.88	2.67	2.90	4.35	3.30	5.25	6.27
22	6.00	4.31	3.51	3.64	3.52	2.85	2.63	2.80	4.45	3.33	5.41	6.19
23	5.93	4.26	3.49	3.62	3.47	2.89	2.60	2.69	4.73	3.50	5.59	5.56
24	5.87	4.23	3.46	4.22	3.44	2.87	2.58	2.65	4.91	3.35	6.04	5.31
25	5.80	4.22	3.45	4.70	3.43	2.84	2.57	2.62	4.84	3.27	6.18	5.24
26	5.62	4.17	3.49	4.98	3.39	2.82	2.56	2.61	4.91	3.37	6.16	5.23
27	5.25	4.11	3.45	5.10	3.35	---	2.55	2.59	4.83	3.39	5.94	5.39
28	5.17	4.05	3.47	5.11	3.33	---	2.79	2.62	5.09	4.83	5.89	5.80
29	5.02	3.98	3.67	4.99	---	2.78	3.32	2.59	4.98	4.74	5.89	5.90
30	4.89	3.90	3.86	4.82	---	2.79	2.95	2.61	4.97	4.64	5.86	5.97
31	4.77	---	3.87	4.68	---	2.72	---	2.60	---	4.41	5.44	---
MEAN	6.79	4.74	3.64	4.16	3.92	---	2.68	2.74	3.58	4.37	4.37	5.04
MAX	8.56	6.07	3.87	5.11	4.55	---	3.32	3.05	5.09	5.83	6.18	6.27
MIN	4.77	3.90	3.45	3.62	3.33	---	2.55	2.59	2.54	3.27	3.18	4.02

CAL YR 1998 MEAN 5.63 MAX 9.01 MIN 2.62

02294650 PEACE RIVER AT BARTOW, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
16...	0855	4.68	71	212	5.50	21.0	--	4.3	--	--	--	--
JAN												
12...	0900	4.01	41	277	6.80	11.0	200	8.4	15	6.2	22	10
MAY												
04...	0825	2.68	3.4	440	6.96	22.0	100	2.2	21	6.8	52	17
JUL												
13...	1240	3.99	50	327	6.14	30.1	--	1.5	--	--	--	--
AUG												
05...	0845	3.27	20	302	6.71	27.8	80	2.2	18	6.3	24	16
SEP												
23...	0900	5.59	148	230	5.59	25.3	160	2.8	19	4.9	16	5.8

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
16...	--	--	--	--	--	.04	.63	.32	2.1	1.3	1.2	--
JAN												
12...	27	31	.23	8.6	194	.02	.71	.09	.99	.99	.94	86
MAY												
04...	41	38	.38	4.1	286	.02	.11	.12	1.0	2.7	2.5	100
JUL												
13...	--	--	--	--	--	.01	.29	.15	2.2	1.6	1.4	--
AUG												
05...	34	23	.49	5.6	200	.01	.23	.13	1.8	1.7	E1.4	81
SEP												
23...	17	21	.46	11	183	<.01	<.02	.03	5.1	.57	.11	55

02294781 PEACE RIVER NEAR HOMELAND, FL

LOCATION.--Lat 27°49'15", long 81°47'59", in SE$^1/_4$ 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^2 (revised).

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

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

REMARKS.--Extremes for period of record are comprised of gage heights that occurred during period of daily record.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 88.57 ft, Oct. 1, 1998; minimum, 81.25 ft, Apr. 16, June 17, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 88.57 ft, Oct. 1; minimum, 81.25 ft, Apr. 16, June 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88.52	83.28	83.45	82.83	83.01	81.59	81.46	81.75	81.41	83.25	82.53	84.17
2	88.36	83.14	83.45	82.35	82.98	81.56	81.60	81.64	81.50	83.55	82.53	83.82
3	88.35	83.15	83.01	82.75	83.19	81.52	81.36	81.68	81.67	83.38	82.69	83.71
4	88.17	83.61	83.26	83.16	83.14	81.47	81.30	81.81	81.53	83.47	82.13	83.36
5	88.02	84.41	83.22	83.25	83.00	81.43	81.30	81.74	81.49	83.62	82.00	82.95
6	87.90	84.59	82.90	83.67	82.86	81.41	81.44	81.64	81.37	83.71	82.49	83.06
7	87.83	84.90	82.84	83.33	82.72	81.39	81.40	81.42	81.36	83.80	83.22	83.34
8	87.72	84.97	82.70	82.76	82.62	81.41	81.73	81.36	81.41	83.83	82.73	83.17
9	87.57	85.00	82.26	82.56	82.87	81.88	81.65	81.36	81.41	83.78	82.70	83.05
10	87.38	84.95	82.25	82.57	83.05	81.90	81.35	81.57	81.72	83.66	82.94	83.40
11	87.23	84.61	82.21	82.48	82.87	81.43	81.28	81.68	81.80	83.50	82.90	82.98
12	87.09	84.19	82.10	82.75	82.88	81.38	81.27	81.62	81.79	83.63	83.10	82.98
13	87.01	83.95	82.23	82.92	82.66	81.35	81.57	81.61	81.74	83.36	83.31	83.18
14	86.88	83.63	82.94	83.16	82.47	81.37	81.46	81.90	81.61	82.62	83.20	83.26
15	86.62	83.42	82.97	83.29	82.48	81.38	81.29	81.83	81.42	82.31	82.85	83.55
16	86.38	83.53	82.77	83.18	82.48	81.37	81.27	81.64	81.32	82.11	82.69	83.61
17	85.94	83.28	82.48	83.31	82.34	81.99	81.32	81.64	81.28	81.76	82.36	83.80
18	85.61	83.25	82.31	83.17	82.08	82.25	81.35	81.58	81.36	81.58	82.16	83.43
19	85.40	83.04	82.25	83.31	82.03	81.83	81.40	81.60	81.33	81.70	82.08	83.29
20	85.33	82.90	82.21	82.81	81.96	81.42	81.30	81.52	81.30	81.49	82.34	83.38
21	85.18	82.80	81.89	82.31	81.91	81.47	81.30	81.64	81.28	81.95	82.89	83.77
22	85.03	82.74	82.00	82.42	81.86	81.91	81.53	82.00	81.52	82.34	83.72	84.16
23	84.82	82.75	81.99	83.30	81.86	82.02	81.84	81.98	82.31	82.43	84.28	84.71
24	84.62	82.79	81.91	82.87	81.83	81.89	81.88	81.72	82.56	82.36	84.48	84.85
25	84.50	82.67	81.97	82.75	81.70	81.91	81.38	81.58	82.84	82.35	84.33	84.58
26	84.47	82.88	82.28	83.00	81.77	81.93	81.29	81.48	83.42	82.33	84.59	84.41
27	84.31	82.85	82.34	83.22	81.71	81.57	81.30	81.42	83.71	82.25	84.63	84.27
28	83.93	82.66	82.55	83.34	81.60	81.38	81.30	81.56	83.66	82.31	84.45	84.40
29	83.83	82.57	82.79	83.44	---	81.32	81.74	81.50	83.58	82.69	84.23	84.48
30	83.79	82.83	83.05	83.45	---	81.32	81.97	81.44	83.42	82.56	84.10	84.62
31	83.46	---	83.10	83.33	---	81.32	---	81.36	---	82.58	84.06	---
MEAN	86.17	83.51	82.57	83.00	82.43	81.59	81.45	81.62	81.94	82.78	83.18	83.72
MAX	88.52	85.00	83.45	83.67	83.19	82.25	81.97	82.00	83.71	83.83	84.63	84.85
MIN	83.46	82.57	81.89	82.31	81.60	81.32	81.27	81.36	81.28	81.49	82.00	82.95

WTR YR 1999 MEAN 82.84 MAX 88.52 MIN 81.27

02294898 PEACE RIVER AT FORT MEADE, FL

LOCATION.--Lat 27°45'04", long 81°46'56", in SE$^1/_4$ 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^2.

WATER-DISCHARGE RECORDS

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 recorder. 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. 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1780	93	82	70	89	15	12	23	3.9	117	53	155
2	1720	83	102	44	77	13	17	18	3.3	123	48	144
3	1660	76	75	85	88	12	13	13	7.9	112	74	116
4	1610	106	79	91	87	11	7.1	18	7.8	111	106	111
5	1520	224	85	89	79	9.2	6.2	17	e6.6	129	111	72
6	1450	237	72	109	69	8.4	6.6	12	e5.2	125	82	68
7	1390	251	58	108	62	7.9	6.8	9.9	4.0	127	115	83
8	1340	269	58	67	55	7.5	11	7.4	6.5	128	107	83
9	1270	269	42	56	58	11	21	7.2	8.9	125	84	68
10	1180	272	31	51	76	26	10	9.4	26	117	98	89
11	1100	240	35	51	67	11	7.0	14	27	106	96	78
12	1050	189	29	51	69	7.3	7.1	12	17	139	100	67
13	1000	146	29	65	73	6.9	9.3	11	16	122	107	96
14	970	127	60	72	56	8.5	12	20	12	76	104	96
15	900	104	70	87	55	11	6.7	30	10	48	78	107
16	805	102	62	84	56	9.4	5.5	20	12	42	65	107
17	694	98	48	80	50	14	6.4	14	23	31	51	119
18	538	85	37	83	37	39	7.8	11	36	18	51	113
19	425	82	35	84	31	45	7.9	11	24	16	68	106
20	366	68	35	76	27	18	6.7	9.1	12	15	85	132
21	342	63	25	40	24	14	6.5	7.9	11	15	89	144
22	306	58	24	38	23	17	6.7	21	8.5	36	130	166
23	269	57	25	71	20	26	13	22	25	47	187	201
24	232	60	23	136	22	36	21	16	39	46	212	236
25	209	59	22	100	17	33	9.1	11	52	83	203	233
26	201	56	28	97	16	33	4.9	7.0	79	65	204	227
27	192	70	46	103	18	24	4.3	5.1	144	55	214	218
28	156	53	e53	107	13	16	8.2	5.6	251	49	203	363
29	131	50	59	110	---	13	14	6.0	175	56	177	281
30	132	51	68	113	---	12	27	4.9	167	57	158	244
31	111	---	77	105	---	12	---	3.9	---	54	148	---
TOTAL	25049	3698	1574	2523	1414	527.1	301.8	397.4	1220.6	2390	3608	4323
MEAN	808	123	50.8	81.4	50.5	17.0	10.1	12.8	40.7	77.1	116	144
MAX	1780	272	102	136	89	45	27	30	251	139	214	363
MIN	111	50	22	38	13	6.9	4.3	3.9	3.3	15	48	67
CFSM	1.68	.26	.11	.17	.11	.04	.02	.03	.08	.16	.24	.30
IN.	1.94	.29	.12	.20	.11	.04	.02	.03	.09	.19	.28	.34

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

MEAN	262	117	131	181	182	209	156	76.3	99.6	219	337	368
MAX	976	452	980	1232	1423	1850	798	679	430	697	1587	1142
(WY)	1995	1995	1998	1998	1998	1998	1998	1979	1982	1982	1995	1995
MIN	12.7	6.43	3.85	5.75	4.25	7.59	6.30	2.37	4.01	11.7	54.9	30.3
(WY)	1991	1991	1991	1991	1991	1991	1985	1994	1985	1981	1989	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1975 - 1999	
ANNUAL TOTAL	214758.1		47025.9			
ANNUAL MEAN	588		129		195	
HIGHEST ANNUAL MEAN					633	1998
LOWEST ANNUAL MEAN					37.6	1981
HIGHEST DAILY MEAN	2220	Feb 23	1780	Oct 1	2220	Feb 23 1998
LOWEST DAILY MEAN	3.0	Jun 29	3.3	Jun 2	.22	Jun 6 1985
ANNUAL SEVEN-DAY MINIMUM	3.3	Jun 23	4.7	May 27	.49	Jun 3 1985
INSTANTANEOUS PEAK FLOW			1790	Oct 1	2250	Feb 23 1998
INSTANTANEOUS PEAK STAGE			78.33	Oct 1	78.85	Feb 23 1998
ANNUAL RUNOFF (CFSM)	1.23		.27		.41	
ANNUAL RUNOFF (INCHES)	16.64		3.64		5.52	
10 PERCENT EXCEEDS	1710		229		522	
50 PERCENT EXCEEDS	168		58		82	
90 PERCENT EXCEEDS	14		7.9		11	

02294898 PEACE RIVER AT FORT MEADE, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78.31	71.82	71.66	71.47	71.77	70.36	70.18	70.53	69.96	72.15	71.20	72.61
2	78.24	71.68	71.95	71.01	71.58	70.33	70.35	70.41	69.93	72.23	71.11	72.48
3	78.16	71.57	71.55	71.71	71.75	70.27	70.21	70.28	70.13	72.08	71.53	72.13
4	78.09	71.99	71.62	71.80	71.74	70.25	70.02	70.41	70.13	72.07	72.00	72.06
5	77.97	73.34	71.71	71.77	71.61	70.19	69.99	70.38	---	72.30	72.06	71.50
6	77.87	73.47	71.50	72.05	71.46	70.16	70.01	70.26	---	72.26	71.66	71.45
7	77.79	73.61	71.29	72.03	71.34	70.15	70.02	70.17	69.97	72.27	72.12	71.68
8	77.73	73.78	71.28	71.42	71.23	70.13	70.16	70.08	70.08	72.29	72.02	71.68
9	77.65	73.77	70.99	71.24	71.27	70.25	70.44	70.08	70.15	72.25	71.69	71.45
10	77.51	73.81	70.75	71.15	71.57	70.64	70.15	70.16	70.63	72.14	71.90	71.76
11	77.36	73.50	70.85	71.16	71.43	70.22	70.03	70.31	70.66	72.00	71.87	71.60
12	77.24	72.99	70.72	71.15	71.47	70.11	70.03	70.27	70.43	72.43	71.93	71.43
13	77.13	72.50	70.72	71.39	71.52	70.09	70.12	70.23	70.39	72.21	72.02	71.86
14	77.06	72.27	71.31	71.51	71.25	70.14	70.20	70.47	70.27	71.57	71.98	71.86
15	76.88	71.98	71.49	71.73	71.23	70.23	70.03	70.71	70.23	71.10	71.61	72.02
16	76.62	71.95	71.35	71.69	71.25	70.17	69.98	70.47	70.29	70.98	71.39	72.02
17	76.24	71.89	71.10	71.64	71.14	70.30	70.01	70.32	70.56	70.75	71.15	72.17
18	75.59	71.71	70.89	71.68	70.88	70.92	70.07	70.24	70.86	70.45	71.15	72.09
19	74.96	71.66	70.84	71.70	70.75	71.03	70.08	70.23	70.58	70.39	71.43	72.00
20	74.56	71.45	70.85	71.56	70.68	70.42	70.04	70.17	70.28	70.37	71.71	72.34
21	74.40	71.36	70.61	70.95	70.61	70.29	70.03	70.12	70.24	70.35	71.77	72.48
22	74.11	71.28	70.60	70.91	70.57	70.37	70.04	70.50	70.17	70.86	72.30	72.74
23	73.77	71.25	70.62	71.47	70.51	70.61	70.24	70.53	70.62	71.09	72.97	73.11
24	73.43	71.31	70.57	72.38	70.56	70.83	70.48	70.38	70.93	71.06	73.23	73.47
25	73.20	71.30	70.55	71.91	70.42	70.76	70.12	70.22	71.18	71.67	73.14	73.43
26	73.11	71.25	70.68	71.88	70.39	70.77	69.96	70.09	71.61	71.40	73.14	73.38
27	73.02	71.48	71.06	71.96	70.46	70.55	69.94	70.01	72.43	71.23	73.25	73.28
28	72.62	71.20	---	72.02	70.32	70.32	70.10	70.03	73.61	71.12	73.14	74.54
29	72.33	71.15	71.30	72.06	---	70.24	70.28	70.06	72.84	71.25	72.86	73.88
30	72.33	71.15	71.45	72.10	---	70.21	70.62	70.01	72.75	71.26	72.64	73.54
31	72.07	---	71.58	71.99	---	70.20	---	69.96	---	71.22	72.52	---
MEAN	75.72	72.12	---	71.63	71.10	70.37	70.13	70.26	---	71.51	72.08	72.40
MAX	78.31	73.81	---	72.38	71.77	71.03	70.62	70.71	---	72.43	73.25	74.54
MIN	72.07	71.15	---	70.91	70.32	70.09	69.94	69.96	---	70.35	71.11	71.43

02294898 PEACE RIVER AT FORT MEADE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-69, 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
16...	1320	71.98	104	275	6.00	21.5	6.0
JAN							
12...	1405	71.18	52	372	7.36	13.0	9.2
MAY							
04...	1455	70.43	18	680	8.13	23.0	5.0
JUL							
13...	1205	72.22	123	458	6.64	27.9	4.7
AUG							
05...	1413	72.03	108	304	7.58	27.2	5.0
SEP							
23...	1430	73.17	206	300	6.02	25.2	6.4

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
16...	.03	.85	.10	1.5	1.1	.92
JAN						
12...	.01	.82	.04	.71	.79	.75
MAY						
04...	.02	.52	.07	.81	.74	.64
JUL						
13...	<.01	.17	.09	1.3	1.2	.83
AUG						
05...	<.01	.21	.06	1.1	.91	.61
SEP						
23...	<.01	.06	.04	3.1	.92	.40

02295013 BOWLEGS CREEK NEAR FT. MEADE, FL

LOCATION.--Lat 27°41'59", long 81°41'44", in NE1/4 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^2.

PERIOD OF RECORD.--February 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 good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e33	3.6	4.5	5.3	14	7.7	2.0	2.0	1.2	25	7.0	29
2	e28	3.5	4.3	5.0	14	7.2	2.0	1.9	1.2	21	7.3	31
3	e26	3.4	4.2	19	17	7.1	1.9	1.7	1.3	17	20	27
4	e24	4.9	4.2	15	17	7.0	1.8	1.6	4.0	15	21	25
5	e22	35	4.4	13	16	6.4	1.7	1.5	7.7	13	26	24
6	e20	29	4.1	12	15	6.0	1.6	1.4	7.3	12	28	22
7	e19	22	4.0	10	14	5.7	1.6	1.4	5.4	11	25	20
8	e18	18	3.8	8.9	13	5.3	1.5	1.6	4.7	9.6	20	18
9	17	15	3.7	8.2	12	5.0	1.5	1.7	4.0	9.6	21	15
10	16	14	3.6	9.3	11	4.7	1.5	2.3	3.5	9.0	29	13
11	14	12	3.6	8.8	11	4.3	1.4	1.8	3.2	7.6	25	11
12	13	11	3.6	7.9	35	4.0	1.4	4.1	2.7	13	26	8.9
13	12	10	3.6	7.3	65	3.8	1.3	2.7	2.5	15	23	8.6
14	11	9.1	4.3	6.9	31	3.9	1.3	2.6	3.5	16	21	7.1
15	9.9	8.1	4.3	6.6	26	5.0	1.3	3.6	3.3	15	20	6.9
16	8.5	7.4	4.0	6.3	23	4.7	1.3	3.1	11	12	19	6.1
17	7.6	6.8	3.9	6.0	21	4.4	1.5	2.4	13	9.1	18	11
18	8.3	6.3	3.8	5.8	19	4.0	1.6	2.1	21	6.8	31	48
19	8.7	5.9	3.7	5.7	18	3.7	1.4	1.9	20	6.2	41	69
20	7.9	5.8	3.9	5.5	17	3.4	1.4	1.7	17	4.9	41	65
21	7.0	6.0	3.8	5.3	15	3.3	1.3	1.7	15	3.8	30	63
22	6.4	5.5	3.8	5.0	14	3.1	1.3	1.6	11	4.6	31	48
23	5.8	5.2	3.7	4.9	13	2.9	1.3	1.6	8.7	13	45	35
24	5.3	6.9	3.6	39	12	e2.7	1.2	1.4	7.7	16	32	27
25	5.0	8.2	3.6	36	12	e2.6	1.2	1.5	6.8	22	37	26
26	4.7	7.0	3.8	26	11	e2.6	1.1	1.7	10	19	88	35
27	4.5	6.1	4.3	22	9.4	e2.5	1.1	1.4	19	17	43	43
28	4.3	5.5	4.8	20	8.5	e2.4	1.4	1.3	23	15	37	103
29	4.1	5.0	6.4	18	---	e2.3	2.6	1.2	23	13	33	53
30	3.9	4.7	6.7	16	---	e2.2	2.3	1.2	23	11	29	42
31	3.7	---	5.9	14	---	2.1	---	1.2	---	8.5	26	---
TOTAL	378.6	290.9	129.9	378.7	503.9	132.0	45.8	58.9	284.7	390.7	900.3	940.6
MEAN	12.2	9.70	4.19	12.2	18.0	4.26	1.53	1.90	9.49	12.6	29.0	31.4
MAX	33	35	6.7	39	65	7.7	2.6	4.1	23	25	88	103
MIN	3.7	3.4	3.6	4.9	8.5	2.1	1.1	1.2	1.2	3.8	7.0	6.1
AC-FT	751	577	258	751	999	262	91	117	565	775	1790	1870
CFSM	.26	.21	.09	.26	.38	.09	.03	.04	.20	.27	.62	.66
IN.	.30	.23	.10	.30	.40	.10	.04	.05	.22	.31	.71	.74

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

MEAN	30.3	15.0	17.1	23.7	29.2	28.9	9.92	3.48	28.7	41.9	59.7	50.2
MAX	134	69.2	86.7	87.5	149	174	45.1	6.92	113	101	196	182
(WY)	1996	1998	1998	1998	1998	1998	1993	1996	1968	1965	1995	1994
MIN	5.86	2.19	2.20	1.82	2.83	1.66	.54	1.21	2.27	7.85	5.39	8.59
(WY)	1965	1967	1992	1992	1968	1967	1968	1967	1998	1998	1998	1991

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1965 - 1999	
ANNUAL TOTAL	14896.2		4435.0			
ANNUAL MEAN	40.8		12.2		28.9	
HIGHEST ANNUAL MEAN					55.6	1995
LOWEST ANNUAL MEAN					11.8	1997
HIGHEST DAILY MEAN	726	Mar 20	103	Sep 28	726	Mar 20 1998
LOWEST DAILY MEAN	1.3	Jun 30	1.1	Apr 26	.30	Apr 25 1968
ANNUAL SEVEN-DAY MINIMUM	1.5	Jun 29	1.2	Apr 21	.37	Apr 23 1968
INSTANTANEOUS PEAK FLOW			160	Aug 26	742	Sep 21 1994
INSTANTANEOUS PEAK STAGE			6.40	Aug 26	8.34	Sep 21 1994
ANNUAL RUNOFF (AC-FT)	29550		8800		20910	
ANNUAL RUNOFF (CFSM)	.86		.26		.61	
ANNUAL RUNOFF (INCHES)	11.74		3.50		8.31	
10 PERCENT EXCEEDS	118		28		75	
50 PERCENT EXCEEDS	7.9		7.1		8.2	
90 PERCENT EXCEEDS	2.4		1.6		2.1	

02295203 PEACE RIVER AT STATE HIGHWAY 664A NEAR BOWLING GREEN, FL

LOCATION.--Lat 27°37'39", long 81°48'05", in NW$^1/_4$ sec.10, T.33 S., R.25 E., Hardee County, Hydrologic Unit 03100101, on left bank, 1,100 ft upstream from State Highway 664A (upper bridge), and 1.6 mi southeast of Bowling Green.

DRAINAGE AREA.--614 mi^2.

PERIOD OF RECORD.--1939, 1974 (miscellaneous discharge measurements); July 1998 to current year (gage heights only).

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

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 61.43 ft, Sept. 28, 1998; minimum, 48.27 ft, Aug. 28, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 59.32 ft, Oct. 1; minimum, 48.27 ft, Apr. 28.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59.13	49.72	49.50	49.42	49.73	48.87	48.49	48.69	48.56	51.03	49.17	50.33
2	58.92	49.62	49.72	49.27	49.59	48.89	48.55	48.59	48.59	50.65	49.08	50.82
3	58.62	49.54	49.62	49.91	49.69	48.90	48.60	48.52	48.61	50.45	49.21	50.41
4	58.13	49.68	49.49	50.18	49.74	48.91	48.50	48.49	48.68	50.32	49.53	49.97
5	57.61	51.13	49.60	49.98	49.68	48.87	48.42	48.52	48.74	50.51	50.22	49.69
6	56.99	51.67	49.52	49.91	49.59	48.83	48.39	48.49	48.78	50.38	49.83	49.50
7	56.42	51.48	49.37	49.97	49.51	48.80	48.39	48.45	48.71	50.24	50.11	49.50
8	56.04	51.37	49.36	49.69	49.42	48.76	48.38	48.45	48.70	50.22	50.07	49.59
9	55.80	51.22	49.25	49.51	49.35	48.72	48.48	48.46	48.74	50.17	49.81	49.47
10	55.53	51.15	49.09	49.51	49.44	48.82	48.53	48.61	49.30	50.03	49.89	49.40
11	55.12	51.08	49.09	49.51	49.43	48.79	48.41	48.65	49.50	49.92	49.95	49.50
12	54.72	50.77	49.01	49.42	49.79	48.65	48.36	48.61	49.12	49.99	49.87	49.32
13	54.40	50.45	48.95	49.52	50.70	48.63	48.35	48.57	48.98	50.00	49.85	49.39
14	54.10	50.32	49.12	49.56	50.13	48.64	48.40	48.56	49.03	49.78	49.84	49.55
15	53.81	50.13	49.31	49.67	49.75	48.84	48.40	48.89	49.16	49.50	49.69	49.55
16	53.37	50.02	49.25	49.68	49.61	48.79	48.33	48.84	49.88	49.44	49.48	49.62
17	52.94	50.03	49.12	49.62	49.53	48.71	48.33	48.65	49.76	49.35	49.53	49.71
18	52.41	49.90	49.03	49.65	49.41	48.86	48.40	48.57	50.34	49.19	49.88	49.82
19	51.86	49.86	49.00	49.57	49.29	49.00	48.41	48.51	50.02	49.04	49.76	50.24
20	51.48	49.73	49.00	49.57	49.20	48.85	48.39	48.49	49.69	48.93	50.16	50.94
21	51.34	49.69	48.98	49.31	49.11	48.67	48.37	48.44	49.65	48.77	50.12	51.41
22	51.17	49.64	48.93	49.17	49.05	48.63	48.36	48.44	49.61	48.83	50.08	51.31
23	50.98	49.60	48.97	49.23	48.99	48.69	48.36	48.58	49.52	49.11	50.43	51.03
24	50.77	49.77	48.95	50.67	48.97	48.79	48.49	48.56	49.71	49.19	50.91	50.93
25	50.56	49.77	48.90	50.75	48.94	48.83	48.53	48.82	49.76	49.51	50.67	50.83
26	50.43	49.72	48.92	50.29	48.89	48.79	48.36	48.93	49.80	49.51	50.44	50.89
27	50.35	49.74	49.08	50.09	48.89	48.77	48.30	48.52	50.15	49.42	50.73	50.99
28	50.23	49.60	49.08	50.02	48.87	48.65	48.29	48.39	51.92	49.25	50.60	51.97
29	50.04	49.50	49.28	49.98	---	48.57	48.58	48.38	51.34	49.21	50.31	52.61
30	49.98	49.42	49.41	49.93	---	48.53	48.69	48.47	51.29	49.26	50.12	51.57
31	49.89	---	49.46	49.84	---	48.51	---	48.52	---	49.19	50.05	---
MEAN	53.65	50.18	49.21	49.75	49.44	48.76	48.43	48.57	49.52	49.69	49.98	50.33
MAX	59.13	51.67	49.72	50.75	50.70	49.00	48.69	48.93	51.92	51.03	50.91	52.61
MIN	49.89	49.42	48.90	49.17	48.87	48.51	48.29	48.38	48.56	48.77	49.08	49.32

WTR YR 1999 MEAN 49.80 MAX 59.13 MIN 48.29

02295420 PAYNE CREEK NEAR BOWLING GREEN, FL

LOCATION.--Lat 27°37'13", long 81°49'33", in SW$^1/_4$ 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^2.

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 recorder. Datum of gage is 51.06 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Records good. Some diversion by pumping for irrigation. Maximum discharge, 922 ft^3/s, Oct. 1, gage height 12.69 ft, occurred on recession following peak of Sept. 27, 1998; maximum independent peak discharge, 328 ft^3/s, Sept. 2, gage height 6.86 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	877	94	67	72	78	35	8.1	17	6.7	244	23	162
2	819	92	71	72	73	32	8.6	12	5.8	190	22	296
3	790	89	68	109	74	33	8.8	8.2	5.3	155	27	179
4	716	95	65	115	79	36	8.1	6.2	4.9	142	28	98
5	627	199	65	111	82	33	7.3	5.0	4.6	143	105	84
6	545	235	62	111	85	29	6.5	4.2	4.2	115	97	75
7	474	231	62	111	82	26	5.9	5.7	3.8	94	144	68
8	438	204	63	108	77	24	5.2	15	4.0	78	114	67
9	427	168	63	103	75	21	4.9	16	5.0	66	104	66
10	414	160	61	104	72	19	4.6	18	7.7	58	104	62
11	380	150	59	100	68	17	4.4	18	7.4	51	103	58
12	350	133	57	95	86	16	4.3	14	8.1	49	87	54
13	329	111	56	99	133	15	3.8	13	9.6	46	82	52
14	302	102	60	102	76	17	3.3	11	15	43	81	52
15	260	99	60	105	65	22	3.1	16	55	48	73	60
16	229	98	60	106	60	19	3.0	19	127	49	67	70
17	213	96	61	106	54	15	3.9	16	82	43	94	87
18	196	90	60	105	51	13	5.4	13	172	37	176	88
19	179	83	60	99	49	11	4.7	12	138	33	123	126
20	165	78	62	90	45	10	3.9	12	128	29	92	201
21	151	78	65	83	42	9.8	3.5	13	124	25	78	261
22	143	78	71	81	42	9.8	3.2	13	106	23	73	239
23	135	76	75	77	41	10	3.2	12	91	30	76	202
24	124	76	70	141	44	9.5	3.3	11	99	30	143	166
25	110	78	68	122	46	8.8	3.1	9.8	108	35	92	144
26	106	80	65	99	45	8.6	2.9	8.8	93	50	77	154
27	104	75	66	97	41	8.5	2.8	7.5	91	49	70	149
28	101	70	67	97	37	8.2	3.9	6.6	183	39	63	195
29	100	67	69	96	---	8.4	48	6.0	169	34	59	196
30	98	66	75	90	---	8.0	32	8.9	230	30	56	150
31	96	---	74	83	---	7.7	---	7.6	---	28	71	---
TOTAL	9998	3351	2007	3089	1802	540.3	213.7	355.5	2088.1	2086	2604	3861
MEAN	323	112	64.7	99.6	64.4	17.4	7.12	11.5	69.6	67.3	84.0	129
MAX	877	235	75	141	133	36	48	19	230	244	176	296
MIN	96	66	56	72	37	7.7	2.8	4.2	3.8	23	22	52
CFSM	2.67	.92	.54	.82	.53	.14	.06	.09	.58	.56	.69	1.06
IN.	3.07	1.03	.62	.95	.55	.17	.07	.11	.64	.64	.80	1.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	123	72.7	63.1	80.1	98.0	105	63.9	38.9	98.1	161	206	226
MAX	418	259	357	355	489	637	192	94.6	592	747	598	786
(WY)	1995	1998	1998	1998	1998	1998	1983	1987	1982	1968	1995	1994
MIN	16.0	9.02	12.7	10.8	19.1	7.94	2.77	2.00	13.4	19.8	60.5	37.2
(WY)	1985	1968	1967	1967	1968	1967	1967	1967	1964	1981	1989	1984

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	91109		31995.6			
ANNUAL MEAN	250		87.7		111	
HIGHEST ANNUAL MEAN					269	1998
LOWEST ANNUAL MEAN					48.2	1981
HIGHEST DAILY MEAN	2160	Mar 20	877	Oct 1	2560	Sep 8 1988
LOWEST DAILY MEAN	29	May 26	2.8	Apr 27	1.2	May 4 1967
ANNUAL SEVEN-DAY MINIMUM	31	May 21	3.1	Apr 21	1.6	May 2 1967
INSTANTANEOUS PEAK FLOW			922	Oct 1	3170	Jun 18 1982
INSTANTANEOUS PEAK STAGE			12.69	Oct 1	17.88	Aug 11 1965
ANNUAL RUNOFF (CFSM)	2.06		.72		.92	
ANNUAL RUNOFF (INCHES)	28.01		9.84		12.51	
10 PERCENT EXCEEDS	585		174		249	
50 PERCENT EXCEEDS	140		67		59	
90 PERCENT EXCEEDS	43		6.6		14	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
19...	1043	3.76	81	359	6.60	21.0	7.2
JAN							
11...	1155	4.00	99	404	7.87	12.0	9.6
MAY							
05...	1210	2.85	5.1	408	6.32	22.0	5.6
JUN							
08...	1145	2.82	4.0	393	7.86	24.5	6.0
AUG							
10...	1100	4.07	104	310	6.48	27.1	7.3
SEP							
28...	1026	5.33	198	259	6.99	25.6	5.8

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
19...	<.01	.53	.04	.50	1.1	.98
JAN						
11...	<.01	.45	.03	.52	.82	.76
MAY						
05...	.02	2.4	.04	.51	.50	.48
JUN						
08...	<.01	.77	.03	.41	.80	.82
AUG						
10...	<.01	.47	.02	.74	.74	.65
SEP						
28...	<.01	.47	.04	.96	.92	.75

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL

LOCATION.--Lat 27°30'15", long 81°48'04", in SE$^1/_4$ sec.22, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, near center of span on downstream 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^2.

WATER-DISCHARGE RECORDS

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. Maximum discharge, 3,530 ft^3/s, Oct. 1, gage height 15.83 ft, occurred on recession following peak of Sept. 28, 1998; maximum independent peak discharge, 1,270 ft^3/s, Sept. 29, gage height 10.47 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3320	269	200	197	236	97	42	86	44	678	135	375
2	3040	250	229	183	212	97	43	69	47	527	129	524
3	2910	237	231	281	214	98	49	55	48	442	132	497
4	2760	249	205	354	227	101	45	44	53	382	163	338
5	2560	691	217	313	224	98	36	43	59	420	288	277
6	2340	864	211	288	215	92	31	41	66	391	272	233
7	2110	739	192	300	203	87	28	35	63	339	317	219
8	1910	670	185	272	189	82	27	52	58	311	324	227
9	1810	608	177	235	178	76	27	50	60	306	284	219
10	1730	569	160	231	179	75	39	63	88	274	279	196
11	1630	553	152	230	182	82	31	78	193	249	297	207
12	1500	496	149	216	185	67	25	66	133	240	277	187
13	1390	422	139	219	568	62	22	57	106	252	264	179
14	1280	377	148	227	336	65	21	53	111	227	262	203
15	1200	344	174	236	245	89	27	68	103	190	246	204
16	1100	319	172	242	208	90	22	85	424	176	214	215
17	997	315	161	235	193	74	19	69	365	162	249	229
18	892	293	149	234	178	72	26	55	576	141	495	255
19	764	279	144	223	159	89	32	47	492	121	350	351
20	657	263	145	218	144	88	27	43	337	105	367	557
21	662	253	145	190	131	63	23	42	307	90	367	741
22	608	247	140	161	123	56	21	39	279	80	326	748
23	542	235	147	157	117	57	19	54	251	114	363	631
24	492	245	147	549	115	64	22	61	332	129	513	552
25	439	257	138	595	115	72	35	49	291	153	468	564
26	403	250	134	397	110	69	26	181	290	196	391	618
27	381	246	143	323	105	68	17	94	366	184	402	604
28	360	231	163	300	103	59	35	44	670	152	407	903
29	328	212	174	288	---	50	134	31	722	137	351	1240
30	309	200	197	275	---	45	120	37	688	141	308	1040
31	298	---	201	256	---	44	---	50	---	138	294	---
TOTAL	40722	11183	5269	8425	5394	2328	1071	1841	7622	7447	9534	13333
MEAN	1314	373	170	272	193	75.1	35.7	59.4	254	240	308	444
MAX	3320	864	231	595	568	101	134	181	722	678	513	1240
MIN	298	200	134	157	103	44	17	31	44	80	129	179
CFSM	1.59	.45	.21	.33	.23	.09	.04	.07	.31	.29	.37	.54
IN.	1.83	.50	.24	.38	.24	.10	.05	.08	.34	.34	.43	.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 1999, BY WATER YEAR (WY)

MEAN	811	373	335	429	501	573	417	259	594	891	1063	1306
MAX	3016	1536	1917	2243	2716	3780	1589	2035	3819	4049	3623	5513
(WY)	1954	1954	1998	1998	1998	1998	1959	1957	1934	1945	1960	1960
MIN	113	75.2	64.9	63.6	69.3	56.0	35.7	42.5	75.9	69.1	163	209
(WY)	1985	1985	1985	1985	1985	1985	1999	1994	1981	1981	1950	1984

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1934 - 1999	
ANNUAL TOTAL	419807		114169			
ANNUAL MEAN	1150		313		630	
HIGHEST ANNUAL MEAN					1605	1960
LOWEST ANNUAL MEAN					179	1981
HIGHEST DAILY MEAN	9960	Mar 21	3320	Oct 1	19700	Sep 20 1947
LOWEST DAILY MEAN	49	Jun 24	17	Apr 27	17	Apr 27 1999
ANNUAL SEVEN-DAY MINIMUM	54	Jun 18	23	Apr 12	23	Apr 12 1999
INSTANTANEOUS PEAK FLOW			3530	Oct 1	26300	Sep 6 1933
INSTANTANEOUS PEAK STAGE			15.83	Oct 1	25.05	Sep 6 1933
ANNUAL RUNOFF (CFSM)	1.39		.38		.76	
ANNUAL RUNOFF (INCHES)	18.91		5.14		10.36	
10 PERCENT EXCEEDS	2930		612		1440	
50 PERCENT EXCEEDS	403		204		325	
90 PERCENT EXCEEDS	99		44		104	

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.53	5.90	5.39	5.37	5.77	4.61	3.98	4.42	3.93	8.26	4.77	6.36
2	15.12	5.76	5.61	5.26	5.59	4.61	3.99	4.23	3.97	7.46	4.71	7.36
3	14.91	5.67	5.62	5.96	5.60	4.62	4.08	4.07	3.98	6.99	4.73	7.18
4	14.64	5.75	5.43	6.45	5.71	4.65	4.02	3.93	4.04	6.63	4.99	6.11
5	14.30	8.40	5.52	6.19	5.68	4.61	3.90	3.91	4.12	6.86	5.92	5.71
6	13.89	9.37	5.47	6.03	5.61	4.56	3.83	3.88	4.20	6.68	5.79	5.39
7	13.43	8.72	5.33	6.11	5.52	4.51	3.79	3.80	4.17	6.36	6.11	5.29
8	13.00	8.34	5.27	5.92	5.41	4.45	3.77	4.03	4.11	6.18	6.15	5.35
9	12.72	7.99	5.21	5.65	5.33	4.39	3.77	4.00	4.13	6.14	5.85	5.29
10	12.52	7.77	5.07	5.62	5.33	4.38	3.93	4.16	4.43	5.93	5.81	5.12
11	12.24	7.67	5.00	5.61	5.36	4.45	3.83	4.33	5.36	5.75	5.92	5.20
12	11.86	7.33	4.98	5.51	5.37	4.29	3.73	4.20	4.87	5.69	5.77	5.05
13	11.54	6.87	4.89	5.54	7.70	4.23	3.68	4.10	4.62	5.78	5.68	4.99
14	11.21	6.60	4.97	5.61	6.44	4.27	3.67	4.04	4.67	5.59	5.65	5.18
15	10.90	6.39	5.19	5.68	5.83	4.52	3.76	4.22	4.59	5.31	5.53	5.20
16	10.49	6.23	5.17	5.74	5.56	4.54	3.68	4.41	6.87	5.20	5.29	5.29
17	10.02	6.21	5.08	5.69	5.44	4.37	3.63	4.23	6.53	5.09	5.51	5.41
18	9.51	6.06	4.98	5.69	5.33	4.35	3.75	4.07	7.73	4.91	7.19	5.60
19	8.85	5.96	4.93	5.62	5.17	4.53	3.84	3.97	7.26	4.72	6.20	6.21
20	8.27	5.85	4.94	5.59	5.05	4.51	3.76	3.92	6.35	4.57	6.31	7.33
21	8.29	5.78	4.94	5.39	4.93	4.24	3.71	3.90	6.15	4.42	6.30	8.21
22	7.99	5.74	4.90	5.17	4.86	4.17	3.66	3.87	5.96	4.32	6.04	8.25
23	7.61	5.65	4.96	5.14	4.80	4.17	3.64	4.05	5.77	4.65	6.28	7.73
24	7.30	5.73	4.95	7.53	4.78	4.26	3.68	4.14	6.31	4.78	7.29	7.37
25	6.97	5.81	4.88	7.84	4.78	4.34	3.89	4.00	6.05	4.98	6.99	7.45
26	6.76	5.76	4.85	6.80	4.73	4.31	3.76	5.24	6.04	5.33	6.47	7.73
27	6.62	5.73	4.93	6.36	4.69	4.30	3.60	4.49	6.53	5.23	6.55	7.69
28	6.49	5.62	5.09	6.22	4.67	4.19	3.79	3.92	8.19	4.96	6.58	8.96
29	6.29	5.48	5.19	6.13	---	4.09	4.86	3.74	8.47	4.82	6.20	10.34
30	6.16	5.39	5.36	6.04	---	4.03	4.74	3.82	8.30	4.84	5.92	9.51
31	6.09	---	5.40	5.91	---	4.01	---	4.00	---	4.81	5.82	---
MEAN	10.37	6.52	5.15	5.92	5.39	4.37	3.86	4.10	5.59	5.59	5.95	6.60
MAX	15.53	9.37	5.62	7.84	7.70	4.65	4.86	5.24	8.47	8.26	7.29	10.34
MIN	6.09	5.39	4.85	5.14	4.67	4.01	3.60	3.74	3.93	4.32	4.71	4.99

WTR YR 1999 MEAN 5.79 MAX 15.53 MIN 3.60

02295637 PEACE RIVER AT ZOLFO SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951-52, 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
19...	1115	5.96	279	381	6.60	21.0	7.2
JAN							
11...	1300	5.61	230	409	7.41	13.0	9.2
MAY							
05...	1315	3.93	44	556	6.59	26.0	7.2
JUN							
08...	1230	4.10	59	571	8.33	26.6	6.6
AUG							
10...	1137	5.78	276	390	7.79	27.4	7.4
SEP							
28...	1100	8.97	900	265	7.21	25.9	5.6

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
19...	<.01	.82	.06	.66	1.3	1.1
JAN						
11...	<.01	.86	.04	.59	.82	.76
MAY						
05...	.03	1.4	.06	.55	1.2	1.2
JUN						
08...	.01	.82	.05	.66	1.3	1.2
AUG						
10...	<.01	.55	.05	.79	.99	.76
SEP						
28...	<.01	.54	.07	1.7	1.2	.84

02296500 CHARLIE CREEK NEAR GARDNER, FL

LOCATION.--Lat 27°22'29", long 81°47'48", in SE$^1/_4$ 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^2.

WATER-DISCHARGE RECORDS

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 recorder. Datum of gage is 21.66 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Records good. Maximum discharge, 1,630 ft^3/s, Oct. 1, gage height 12.80 ft, occurred on recession following peak of Sept. 28, 1998; maximum independent peak discharge, 1,290 ft^3/s, July 2, gage height 11.64 ft.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 24.2 ft in 1928, from information by local resident.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1590	30	40	31	101	28	7.5	11	5.4	1260	242	657
2	1460	25	38	31	91	27	7.4	10	4.5	1270	208	678
3	1290	22	36	43	98	26	6.9	8.2	3.9	1240	188	605
4	1100	21	34	56	93	25	6.9	6.5	3.7	1140	173	532
5	918	197	33	60	86	24	6.4	5.2	3.7	1020	194	457
6	744	533	32	66	79	23	6.1	4.4	3.3	931	277	384
7	584	623	31	67	72	22	5.7	3.7	3.5	842	240	324
8	471	641	30	65	65	20	5.4	3.5	3.5	733	222	271
9	374	625	30	62	61	19	5.2	4.3	3.5	676	202	224
10	294	576	30	62	57	18	5.0	6.2	5.7	628	174	189
11	232	506	29	61	54	17	4.9	5.0	5.7	546	151	161
12	190	428	32	59	50	16	4.8	5.0	6.2	468	140	140
13	246	349	34	57	47	16	4.4	5.7	6.9	416	131	125
14	253	274	35	54	50	16	4.4	5.2	11	408	116	113
15	169	215	35	52	51	25	4.2	4.7	13	379	102	103
16	128	173	34	50	50	33	4.1	4.2	7.8	372	88	92
17	104	143	33	49	47	33	4.2	3.7	13	419	81	81
18	89	123	32	47	44	32	4.6	3.2	59	436	166	87
19	79	109	31	46	42	29	4.5	2.8	85	402	175	138
20	72	99	31	46	40	27	4.3	2.4	80	352	332	276
21	65	91	30	45	39	24	4.3	2.3	85	302	392	502
22	169	83	30	44	37	20	4.2	2.5	86	265	460	637
23	360	75	30	43	36	17	4.3	20	158	340	504	686
24	388	69	29	97	35	15	4.2	35	699	291	531	685
25	316	63	29	152	34	14	4.3	26	821	279	592	650
26	219	58	28	167	32	12	4.3	17	873	299	574	609
27	137	54	28	179	32	12	4.0	13	918	329	553	568
28	82	50	28	164	30	11	4.5	10	959	347	525	580
29	57	46	29	147	---	10	6.4	8.0	1040	348	478	609
30	44	43	30	131	---	9.1	11	7.4	1180	329	412	602
31	36	---	30	115	---	8.3	---	6.1	---	284	365	---
TOTAL	12260	6344	981	2348	1553	628.4	158.4	252.2	7147.3	17351	8988	11765
MEAN	395	211	31.6	75.7	55.5	20.3	5.28	8.14	238	560	290	392
MAX	1590	641	40	179	101	33	11	35	1180	1270	592	686
MIN	36	21	28	31	30	8.3	4.0	2.3	3.3	265	81	81
CFSM	1.20	.64	.10	.23	.17	.06	.02	.02	.72	1.70	.88	1.19
IN.	1.38	.72	.11	.26	.18	.07	.02	.03	.81	1.96	1.01	1.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

MEAN	377	127	92.9	130	172	231	128	44.3	258	424	489	654
MAX	2117	1225	1377	1097	1667	1838	625	562	2250	2275	2028	2710
(WY)	1954	1998	1998	1998	1998	1998	1951	1957	1982	1974	1960	1953
MIN	9.87	4.80	3.39	4.81	4.09	2.10	.81	.57	2.49	4.85	19.1	27.5
(WY)	1985	1975	1982	1956	1956	1956	1975	1975	1971	1981	1993	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1951 - 1999	
ANNUAL TOTAL	187740		69776.3			
ANNUAL MEAN	514		191		261	
HIGHEST ANNUAL MEAN					694	1998
LOWEST ANNUAL MEAN					64.5	1981
HIGHEST DAILY MEAN	6210	Mar 22	1590	Oct 1	7820	Aug 1 1960
LOWEST DAILY MEAN	13	Jun 18	2.3	May 21	.18	May 5 1975
ANNUAL SEVEN-DAY MINIMUM	14	Jun 15	3.0	May 16	.25	May 1 1975
INSTANTANEOUS PEAK FLOW			1630	Oct 1	8160	Aug 1 1960
INSTANTANEOUS PEAK STAGE			12.80	Oct 1	18.77	Aug 1 1960
ANNUAL RUNOFF (CFSM)	1.56		.58		.79	
ANNUAL RUNOFF (INCHES)	21.16		7.87		10.75	
10 PERCENT EXCEEDS	1400		596		733	
50 PERCENT EXCEEDS	99		57		64	
90 PERCENT EXCEEDS	19		4.8		5.8	

02296500 CHARLIE CREEK NEAR GARDNER, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-67, 1969-83, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
19...	1000	4.62	109	168	5.70	21.0	6.7
JAN							
11...	1100	2.99	62	254	6.15	12.0	10.0
MAY							
05...	1130	1.69	5.2	447	6.32	24.5	4.6
JUN							
08...	1050	1.63	3.4	402	7.65	26.8	5.1
AUG							
10...	1011	4.92	178	160	6.01	28.0	6.4
SEP							
28...	0949	7.85	576	141	5.95	26.0	5.3

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
19...	.01	.22	.05	1.2	.56	.49
JAN						
11...	.01	.52	.04	1.0	.23	.21
MAY						
05...	.01	<.02	.03	.69	.58	.56
JUN						
08...	<.01	.02	.04	.62	.53	.55
AUG						
10...	<.01	.22	.06	1.3	.60	.52
SEP						
28...	<.01	.09	.06	1.2	.49	.46

02296750 PEACE RIVER AT ARCADIA, FL

LOCATION.--Lat 27°13'19", long 81°52'34", in SE$^1/_4$ sec.26, T.37 S., R.24 E., De Soto County, Hydrologic Unit 03100101, on left bank 500 ft upstream from 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^2.

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; Mar. 20, 1964, to July 11, 1967, nonrecording gage at same site at datum 6.00 ft lower.

REMARKS.--Records good. Maximum discharge, 5,620 ft^3/s, Oct. 1, gage height 12.84 ft, occurred on recession following peak of Sept. 30, 1998; maximum independent peak discharge, 2,660 ft^3/s, July 7, gage height 8.96 ft.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5420	536	305	234	496	184	73	160	142	2390	450	785
2	5520	498	296	231	458	174	70	121	116	2630	403	1060
3	5270	468	317	247	434	171	67	98	106	2590	366	1160
4	4880	463	317	349	430	171	67	82	110	2350	349	1060
5	4410	884	289	416	431	167	67	69	101	2030	374	815
6	3980	1850	292	383	415	165	61	62	102	1790	532	673
7	3580	2140	284	368	394	157	58	56	104	1590	582	574
8	3240	1980	263	377	368	147	55	58	110	1390	580	508
9	2900	1730	250	345	343	141	52	87	109	1210	579	467
10	2620	1530	242	306	323	135	49	103	107	1110	528	420
11	2380	1360	223	293	317	130	50	102	114	1000	486	363
12	2220	1220	212	286	316	131	51	106	221	952	477	340
13	2160	1060	212	269	363	119	44	101	248	843	510	307
14	2130	887	210	263	670	120	41	89	273	781	489	282
15	1950	765	209	267	548	147	40	79	226	759	421	291
16	1740	682	228	275	425	160	40	75	312	701	374	282
17	1580	620	227	280	362	166	41	92	672	675	350	281
18	1420	586	215	271	332	148	41	88	926	715	479	339
19	1280	549	204	267	308	134	40	74	970	826	836	386
20	1110	517	198	260	279	139	42	66	874	688	766	661
21	978	485	195	251	255	140	43	73	722	577	839	1120
22	1010	460	192	224	237	119	40	74	650	502	856	1400
23	1140	439	186	196	224	103	37	69	670	496	949	1450
24	1150	412	188	421	217	96	35	93	1510	543	1020	1360
25	1060	407	188	865	211	95	33	122	1810	499	1200	1250
26	926	409	180	918	206	104	35	106	1770	515	1160	1350
27	805	393	172	738	199	103	41	170	1990	579	991	1430
28	713	378	178	647	191	98	39	165	1910	588	921	1390
29	648	353	202	599	---	91	75	117	2020	559	868	1530
30	594	325	211	566	---	80	159	146	2260	528	759	1710
31	559	---	228	535	---	75	---	130	---	501	669	---
TOTAL	69373	24386	7113	11947	9752	4110	1586	3033	21255	32907	20163	25044
MEAN	2238	813	229	385	348	133	52.9	97.8	708	1062	650	835
MAX	5520	2140	317	918	670	184	159	170	2260	2630	1200	1710
MIN	559	325	172	196	191	75	33	56	101	496	349	281
MED	1740	542	212	293	338	135	44	92	292	759	579	729
CFSM	1.64	.59	.17	.28	.25	.10	.04	.07	.52	.78	.48	.61
IN.	1.89	.66	.19	.33	.27	.11	.04	.08	.58	.90	.55	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1999, BY WATER YEAR (WY)

MEAN	1486	560	470	610	763	886	614	324	1030	1693	1936	2551
MAX	6954	3271	3780	3652	5109	6410	2449	2597	6107	6604	7439	9876
(WY)	1954	1998	1998	1998	1998	1998	1958	1957	1982	1945	1960	1933
MIN	146	101	87.2	83.3	90.0	83.5	52.9	51.6	98.6	93.1	324	328
(WY)	1985	1982	1932	1985	1932	1985	1999	1985	1935	1981	1993	1984

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1932 - 1999	
ANNUAL TOTAL	699338		230669			
ANNUAL MEAN	1916		632		1078	
HIGHEST ANNUAL MEAN					2571	1960
LOWEST ANNUAL MEAN					298	1981
HIGHEST DAILY MEAN	18500	Mar 23	5520	Oct 2	34700	Sep 9 1933
LOWEST DAILY MEAN	76	Jul 6	33	Apr 25	14	May 22 1982
ANNUAL SEVEN-DAY MINIMUM	83	Jun 17	37	Apr 22	30	May 17 1982
INSTANTANEOUS PEAK FLOW			5620	Oct 1	36200	Sep 9 1933
INSTANTANEOUS PEAK STAGE			12.84	Oct 1	19.92	Sep 9 1933
ANNUAL RUNOFF (CFSM)	1.40		.46		.79	
ANNUAL RUNOFF (INCHES)	19.03		6.28		10.71	
10 PERCENT EXCEEDS	4890		1530		2660	
50 PERCENT EXCEEDS	732		350		462	
90 PERCENT EXCEEDS	133		74		122	

02296750 PEACE RIVER AT ARCADIA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.65	3.02	2.58	2.30	2.89	1.82	1.30	1.86	1.79	8.39	3.02	4.18
2	12.76	2.89	2.54	2.28	2.76	1.78	1.28	1.66	1.65	8.89	2.87	5.00
3	12.53	2.79	2.62	2.35	2.69	1.77	1.26	1.52	1.59	8.82	2.75	5.29
4	12.15	2.78	2.62	2.73	2.68	1.77	1.27	1.41	1.61	8.29	2.69	5.01
5	11.66	4.20	2.51	2.95	2.68	1.76	1.27	1.31	1.56	7.52	2.78	4.29
6	11.12	7.05	2.52	2.85	2.63	1.75	1.22	1.26	1.57	6.90	3.30	3.81
7	10.56	7.78	2.50	2.80	2.56	1.71	1.20	1.22	1.58	6.41	3.48	3.44
8	10.01	7.37	2.41	2.83	2.48	1.67	1.17	1.23	1.61	5.90	3.47	3.21
9	9.42	6.76	2.36	2.72	2.39	1.64	1.15	1.45	1.61	5.42	3.46	3.07
10	8.88	6.26	2.33	2.58	2.32	1.61	1.12	1.56	1.59	5.16	3.28	2.93
11	8.38	5.85	2.25	2.53	2.30	1.59	1.13	1.55	1.64	4.85	3.13	2.74
12	7.97	5.48	2.20	2.50	2.29	1.59	1.14	1.58	2.15	4.70	3.10	2.66
13	7.84	5.03	2.21	2.44	2.45	1.54	1.08	1.55	2.27	4.38	3.21	2.54
14	7.75	4.54	2.20	2.41	3.52	1.54	1.05	1.47	2.37	4.19	3.14	2.45
15	7.31	4.17	2.19	2.43	3.07	1.70	1.04	1.41	2.18	4.11	2.93	2.48
16	6.77	3.88	2.27	2.46	2.67	1.77	1.04	1.38	2.51	3.91	2.78	2.45
17	6.32	3.66	2.27	2.48	2.47	1.80	1.05	1.50	3.76	3.81	2.70	2.44
18	5.89	3.53	2.22	2.45	2.37	1.71	1.05	1.47	4.60	3.95	3.13	2.66
19	5.47	3.39	2.17	2.43	2.28	1.64	1.05	1.37	4.73	4.32	4.36	2.82
20	4.98	3.28	2.14	2.40	2.18	1.68	1.07	1.32	4.44	3.86	4.13	3.75
21	4.56	3.17	2.13	2.36	2.09	1.68	1.08	1.36	3.94	3.45	4.37	5.19
22	4.66	3.09	2.12	2.26	2.02	1.57	1.05	1.37	3.69	3.19	4.42	5.94
23	5.06	3.03	2.09	2.13	1.97	1.48	1.02	1.33	3.76	3.17	4.69	6.07
24	5.08	2.94	2.10	2.87	1.95	1.43	1.00	1.50	6.17	3.33	4.90	5.82
25	4.81	2.92	2.10	4.26	1.92	1.44	.98	1.68	6.96	3.18	5.40	5.54
26	4.39	2.93	2.06	4.36	1.91	1.49	1.00	1.59	6.84	3.23	5.28	5.79
27	3.99	2.88	2.03	3.76	1.88	1.49	1.06	1.92	7.40	3.46	4.81	6.02
28	3.67	2.83	2.05	3.43	1.85	1.47	1.04	1.91	7.21	3.50	4.61	5.90
29	3.44	2.75	2.16	3.26	---	1.42	1.36	1.65	7.49	3.39	4.45	6.27
30	3.24	2.65	2.20	3.13	---	1.36	1.86	1.81	8.08	3.27	4.11	6.71
31	3.11	---	2.27	3.02	---	1.32	---	1.73	---	3.18	3.79	---
MEAN	7.30	4.10	2.27	2.77	2.40	1.61	1.15	1.51	3.61	4.84	3.69	4.22
MAX	12.76	7.78	2.62	4.36	3.52	1.82	1.86	1.92	8.08	8.89	5.40	6.71
MIN	3.11	2.65	2.03	2.13	1.85	1.32	.98	1.22	1.56	3.17	2.69	2.44

CAL YR 1998 MEAN 5.91 MAX 18.10 MIN 1.54
WTR YR 1999 MEAN 3.30 MAX 12.76 MIN .98

02296750 PEACE RIVER AT ARCADIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1930, 1940, 1957 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
18...	1025	3.54	589	308	6.20	21.0	--	7.0	--	--	--	--
JAN												
06...	1134	2.84	381	386	7.70	11.5	60	8.0	31	14	19	4.8
MAY												
03...	1055	1.52	98	487	7.31	22.6	40	5.0	47	20	19	7.0
JUN												
02...	0940	1.66	118	420	7.76	27.8	--	5.9	--	--	--	--
AUG												
11...	1010	3.13	486	321	7.79	28.3	200	6.3	24	12	21	4.3
SEP												
29...	1030	6.22	1520	263	6.50	26.8	200	5.6	21	9.2	15	5.4

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV											
18...	--	--	--	--	--	<.01	.66	.06	1.3	1.1	.88
JAN											
06...	71	22	.83	6.0	260	<.01	.83	.04	.72	.76	.74
MAY											
03...	130	29	.87	4.0	370	.03	1.2	.07	.73	.88	.82
JUN											
02...	--	--	--	--	--	.01	.63	.08	.68	.75	.74
AUG											
11...	52	17	.84	7.3	233	<.01	.48	.04	.73	.94	.65
SEP											
29...	39	19	.56	7.6	216	<.01	.42	.05	1.5	.77	.58

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	101	1.2	<1.0	<1.0	<1.0	170	<1	<.1	1.1	680	2.4
MAY											
03...	59	1.1	<1.0	<1.0	1.6	75	<1	<.1	2.2	1800	2.4
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	277	1.8	<1.0	<1.0	2.0	532	<1	<.1	<1.0	570	4.4
SEP											
29...	224	1.3	<1.0	<1.0	2.3	523	<1	<.1	1.4	590	4.3

02297100 JOSHUA CREEK AT NOCATEE, FL

LOCATION.--Lat 27°09'59", long 81°52'47", in SE1/4 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^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1950 to current year.
REVISED RECORDS.--WSP 1334: 1952(M). WSP 1905: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 3.94 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Records good except those for estimated daily discharges due to backwater, which are poor.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1948 reached a stage of 17.7 ft, from information by local residents.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e500	13	36	24	34	20	15	65	83	996	75	79
2	e400	12	34	24	33	20	14	45	55	938	67	102
3	e350	12	33	38	32	20	15	36	45	652	66	79
4	e290	22	32	42	30	20	13	31	40	491	70	68
5	e240	234	32	39	30	20	12	28	59	363	67	61
6	e194	395	31	41	29	21	13	25	134	281	66	56
7	e180	315	30	44	28	20	13	23	59	232	77	55
8	e160	274	30	40	27	19	13	23	44	197	69	54
9	e145	228	30	38	27	18	13	33	41	170	62	50
10	106	192	29	38	25	18	14	40	40	140	61	47
11	88	164	29	37	25	17	13	34	33	121	58	42
12	75	140	29	35	25	17	12	28	29	110	55	38
13	74	123	29	33	34	18	12	29	30	91	59	35
14	74	107	35	32	29	19	12	26	211	93	71	34
15	69	94	33	32	28	27	11	23	148	289	76	34
16	62	85	31	34	27	25	13	19	109	207	75	31
17	55	77	30	33	26	23	15	17	321	119	79	29
18	47	70	30	31	25	22	16	17	1010	138	85	32
19	40	68	29	31	24	21	16	16	698	434	116	61
20	36	63	29	31	23	21	14	15	527	314	126	97
21	33	58	28	30	22	20	13	32	517	217	124	235
22	30	54	28	30	22	18	13	43	374	177	190	362
23	26	50	27	30	23	18	12	139	272	260	253	344
24	24	48	27	57	25	16	12	74	527	290	407	275
25	22	47	26	64	23	16	12	46	905	221	384	215
26	19	46	26	55	22	17	11	35	1180	176	293	197
27	18	42	26	51	22	19	13	29	956	148	219	216
28	16	39	26	46	20	18	42	26	943	125	168	212
29	15	37	28	42	---	17	278	25	1230	108	131	186
30	15	36	27	39	---	16	160	82	900	94	101	157
31	14	---	25	36	---	15	---	124	---	84	82	---
TOTAL	3417	3145	915	1177	740	596	835	1228	11520	8276	3832	3483
MEAN	110	105	29.5	38.0	26.4	19.2	27.8	39.6	384	267	124	116
MAX	500	395	36	64	34	27	278	139	1230	996	407	362
MIN	14	12	25	24	20	15	11	15	29	84	55	29
CFSM	.84	.79	.22	.29	.20	.15	.21	.30	2.91	2.02	.94	.88
IN.	.96	.89	.26	.33	.21	.17	.24	.35	3.25	2.33	1.08	.98

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

MEAN	164	41.0	34.9	49.6	59.1	87.5	34.2	29.3	137	176	185	288
MAX	1067	234	405	284	484	439	201	250	1133	699	562	899
(WY)	1954	1969	1998	1998	1983	1998	1993	1958	1982	1974	1995	1994
MIN	4.56	3.53	1.78	1.95	2.99	.92	.60	.70	.52	2.16	7.16	18.1
(WY)	1962	1962	1956	1956	1956	1956	1956	1953	1956	1956	1956	1984

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1951 - 1999	
ANNUAL TOTAL	65164		39164			
ANNUAL MEAN	179		107		107	
HIGHEST ANNUAL MEAN					231	1953
LOWEST ANNUAL MEAN					20.7	1956
HIGHEST DAILY MEAN	2020	Mar 21	1230	Jun 29	7910	Oct 10 1953
LOWEST DAILY MEAN	11	Jun 18	11	Apr 15	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	12	Jun 14	12	Apr 21	.00	May 3 1959
INSTANTANEOUS PEAK FLOW			1340	Jun 29	8670	Oct 10 1953
INSTANTANEOUS PEAK STAGE			14.20	Jun 29	19.05	Sep 22 1962
ANNUAL RUNOFF (CFSM)	1.35		.81		.81	
ANNUAL RUNOFF (INCHES)	18.36		11.04		11.03	
10 PERCENT EXCEEDS	473		274		269	
50 PERCENT EXCEEDS	70		38		27	
90 PERCENT EXCEEDS	18		16		4.0	

02297100 JOSHUA CREEK AT NOCATEE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1965-83, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
18...	1115	5.89	70	619	6.10	20.5	--	7.1	--	--	--	--
JAN												
06...	1306	5.26	42	1030	7.55	9.0	50	11.0	76	23	79	8.4
MAY												
03...	1217	5.29	36	1480	6.93	21.0	60	5.6	110	32	110	13
JUN												
02...	1015	5.75	56	1190	7.91	25.0	--	6.0	--	--	--	--
AUG												
11...	1100	5.44	58	781	7.60	27.4	120	6.5	62	17	62	7.6
SEP												
29...	1110	7.75	188	433	6.75	26.8	240	5.7	34	11	29	6.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
18...	--	--	--	--	--	<.01	.94	.04	.60	.19	.13	--
JAN												
06...	120	180	.36	7.1	677	<.01	1.3	.04	.71	.08	.07	6300
MAY												
03...	190	280	.42	7.8	1050	.08	2.3	.13	.87	.13	.12	7900
JUN												
02...	--	--	--	--	--	.04	2.0	.08	1.0	.14	.11	--
AUG												
11...	85	130	.34	8.6	522	<.01	.93	.05	.94	.27	.19	3700
SEP												
29...	47	63	.23	7.2	342	<.01	.52	.05	1.4	.24	.18	2000

02297155 HORSE CREEK NEAR MYAKKA HEAD, FL

LOCATION.--Lat 27°29'13", long 82°01'25", in SE$^1/_4$ 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^2.

WATER-DISCHARGE RECORDS

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 recorder. Datum of gage is 58.12 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).
REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	173	3.7	7.2	2.6	5.9	.67	.13	.52	7.1	100	39	28
2	133	3.4	6.5	2.2	5.1	.61	.11	.43	2.7	56	27	24
3	115	3.3	6.0	23	5.4	.70	.11	.57	12	40	23	18
4	100	5.2	5.8	16	4.8	.90	.10	.40	6.5	33	71	14
5	82	86	5.5	9.6	4.0	.85	.10	.24	5.5	30	115	11
6	69	56	5.0	7.5	3.4	.80	.10	.17	91	27	181	9.7
7	61	34	4.5	7.2	3.0	.77	.09	.12	28	24	123	10
8	52	27	4.3	6.4	2.9	.71	.09	.09	15	20	57	10
9	45	22	3.9	6.0	2.7	.68	.09	2.5	10	17	41	8.9
10	39	19	3.7	7.9	2.5	.56	.09	10	6.7	17	50	7.3
11	33	16	3.6	7.0	2.3	.55	.09	5.4	4.1	14	44	6.7
12	30	14	4.8	5.5	2.1	.46	.09	2.5	2.8	16	40	15
13	68	12	4.8	4.7	1.8	.43	.09	1.5	16	40	52	9.8
14	43	11	6.1	4.2	1.5	.49	.08	1.0	48	27	37	7.9
15	31	9.9	5.1	3.9	1.3	1.5	.08	1.2	69	20	27	13
16	26	8.9	4.1	3.7	1.3	1.6	.08	.99	163	21	22	7.8
17	22	8.2	3.3	5.6	1.2	1.1	.09	.69	158	16	20	5.7
18	21	7.6	2.7	5.3	1.1	.92	.14	.40	318	13	26	13
19	18	7.0	2.4	4.8	1.1	.66	.10	.25	128	15	40	27
20	15	6.7	2.4	4.4	1.1	.50	.09	.16	71	11	71	47
21	14	12	2.4	3.9	1.0	.45	.09	.11	67	8.0	54	40
22	12	38	2.3	3.4	1.0	.43	.08	.10	43	64	67	24
23	10	18	2.2	3.1	.91	.36	.08	.10	32	126	106	15
24	8.8	15	2.0	42	.84	.30	.08	.09	39	40	62	11
25	7.8	12	2.0	24	.80	.32	.08	.09	39	26	42	8.7
26	6.9	18	2.1	14	.76	.31	.08	.09	45	46	35	12
27	6.0	14	2.3	12	.71	.35	.08	.09	38	63	32	40
28	5.4	11	2.3	11	.69	.28	.57	.09	58	35	44	129
29	4.8	9.1	2.6	9.5	---	.23	2.0	.38	43	24	29	44
30	4.3	8.0	3.3	8.1	---	.18	.70	4.1	69	114	25	26
31	4.0	---	2.9	6.9	---	.13	---	16	---	111	28	---
TOTAL	1260.0	516.0	118.1	275.4	61.21	18.80	5.78	50.37	1635.4	1214.0	1630	643.5
MEAN	40.6	17.2	3.81	8.88	2.19	.61	.19	1.62	54.5	39.2	52.6	21.5
MAX	173	86	7.2	42	5.9	1.6	2.0	16	318	126	181	129
MIN	4.0	3.3	2.0	2.2	.69	.13	.08	.09	2.7	8.0	20	5.7
CFSM	.97	.41	.09	.21	.05	.01	.00	.04	1.30	.93	1.25	.51
IN.	1.12	.46	.10	.24	.05	.02	.01	.04	1.45	1.08	1.44	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 1999, BY WATER YEAR (WY)

MEAN	24.8	14.8	15.0	20.2	21.6	30.2	15.7	4.78	29.0	41.3	63.2	79.7
MAX	88.8	147	142	111	133	162	90.8	24.8	210	114	185	297
(WY)	1983	1998	1998	1998	1998	1998	1993	1987	1982	1986	1992	1994
MIN	.55	.063	.14	.14	.28	.54	.19	.061	.021	2.32	2.48	2.74
(WY)	1985	1985	1985	1985	1985	1985	1999	1985	1997	1993	1993	1984

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1978 - 1999	
ANNUAL TOTAL	18521.28		7428.56			
ANNUAL MEAN	50.7		20.4		30.0	
HIGHEST ANNUAL MEAN					71.5	1998
LOWEST ANNUAL MEAN					6.44	1997
HIGHEST DAILY MEAN	1550	Mar 20	318	Jun 18	2240	Sep 7 1988
LOWEST DAILY MEAN	.00	Many Days	.08	Apr 14	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 19	.08	Apr 21	.00	Apr 30 1981
INSTANTANEOUS PEAK FLOW			524	Jun 18	3210	Sep 6 1988
INSTANTANEOUS PEAK STAGE			17.55	Jun 18	24.34	Sep 6 1988
ANNUAL RUNOFF (CFSM)	1.21		.48		.72	
ANNUAL RUNOFF (INCHES)	16.40		6.58		9.72	
10 PERCENT EXCEEDS	114		56		72	
50 PERCENT EXCEEDS	11		6.9		6.4	
90 PERCENT EXCEEDS	.05		.13		.34	

02297155 HORSE CREEK NEAR MYAKKA HEAD, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978-83, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
19...	1150	9.14	7.1	177	5.80	21.0	--	7.3	--	--	--	--
JAN												
11...	1345	9.10	6.1	154	6.51	12.0	--	10.2	--	--	--	--
MAY												
05...	1354	8.77	.24	198	5.43	22.7	--	5.1	--	--	--	--
JUN												
08...	1315	9.41	14	127	7.30	24.2	--	6.7	--	--	--	--
AUG												
10...	1214	10.35	48	96	5.80	26.4	400	7.5	7.7	3.7	5.6	2.2
SEP												
28...	1139	12.29	138	66	5.45	25.1	280	5.9	6.0	2.4	3.7	1.6

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
19...	--	--	--	--	--	<.01	.10	.03	.41	.30	.28	--
JAN												
11...	--	--	--	--	--	<.01	.11	.02	.54	.31	.28	--
MAY												
05...	--	--	--	--	--	.02	.08	.04	.55	.74	.72	--
JUN												
08...	--	--	--	--	--	<.01	.04	.05	1.0	.44	.45	--
AUG												
10...	6.5	11	.23	5.4	135	<.01	.08	.02	1.0	.36	.30	51
SEP												
28...	3.2	8.5	.16	5.2	108	<.01	.05	.03	1.1	.40	.33	38

02297310 HORSE CREEK NEAR ARCADIA, FL

LOCATION.--Lat 27°11'57", long 81°59'19", in NW 1/4 sec.2, T.38 S., R.23 E., De Soto County, Hydrologic Unit 03100101, near center of span on downstream side of bridge on State Highway 72, 7.9 mi west of Arcadia, and 10 mi upstream from mouth.
DRAINAGE AREA.--218 mi^2.

WATER-DISCHARGE RECORDS

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. Maximum discharge, 1,280 ft^3/s, Oct. 1, gage height 12.66 ft, occurred on recession following peak of Sept. 27, 1998; maximum independent peak discharge, 1,100 ft^3/s, July 2, gage height 12.27 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1180	54	65	19	86	11	4.9	3.2	74	504	169	185
2	1010	48	60	18	75	11	5.6	3.8	52	1020	167	211
3	876	44	55	30	66	11	5.8	2.9	37	840	173	183
4	763	47	51	45	58	11	5.6	2.2	27	661	207	169
5	661	312	46	47	51	10	5.6	1.7	21	534	231	158
6	576	487	42	43	45	9.5	5.6	1.4	17	436	226	150
7	489	445	39	43	41	9.0	5.2	1.2	17	360	257	140
8	412	353	36	42	37	8.4	4.7	1.4	17	303	265	125
9	395	292	33	43	33	8.0	4.4	4.1	16	252	243	109
10	333	264	32	45	31	7.6	4.3	12	15	213	247	90
11	281	245	31	42	29	7.2	4.0	12	13	184	267	72
12	245	222	30	39	27	7.0	3.5	8.0	11	249	290	60
13	297	195	29	36	25	7.2	2.9	6.4	10	266	352	51
14	284	169	33	34	24	9.0	2.8	5.4	17	218	396	46
15	252	146	31	31	24	21	2.6	4.2	20	212	328	47
16	213	127	29	30	22	23	2.9	3.1	39	203	260	42
17	184	111	27	28	21	18	2.9	2.4	113	175	236	39
18	166	97	25	27	20	15	2.9	1.8	348	196	288	42
19	151	86	24	28	19	12	2.5	1.5	275	321	351	84
20	139	77	23	27	18	11	2.1	1.2	273	279	284	102
21	128	69	23	26	18	9.7	1.8	4.1	310	209	242	168
22	122	65	22	25	17	8.7	1.7	17	400	163	246	163
23	148	97	22	24	15	7.9	1.7	15	456	145	238	147
24	141	96	21	88	15	7.2	1.7	14	470	134	242	136
25	122	90	22	139	14	6.7	1.3	9.8	533	128	225	141
26	112	87	21	152	14	7.2	.93	6.9	612	122	211	163
27	103	86	20	137	13	8.0	.80	5.1	721	126	205	183
28	91	83	20	120	12	7.5	.88	3.9	665	148	200	193
29	80	78	21	111	---	6.5	1.1	7.1	517	173	191	212
30	70	72	20	104	---	5.7	1.5	80	517	172	175	201
31	61	---	19	96	---	5.1	---	73	---	171	170	---
TOTAL	10085	4644	972	1719	870	307.1	94.21	315.8	6613	9117	7582	3812
MEAN	325	155	31.4	55.5	31.1	9.91	3.14	10.2	220	294	245	127
MAX	1180	487	65	152	86	23	5.8	80	721	1020	396	212
MIN	61	44	19	18	12	5.1	.80	1.2	10	122	167	39
CFSM	1.49	.71	.14	.25	.14	.05	.01	.05	1.01	1.35	1.12	.58
IN.	1.72	.79	.17	.29	.15	.05	.02	.05	1.13	1.56	1.29	.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

MEAN	262	91.8	65.1	102	117	161	77.5	28.6	186	311	400	478
MAX	1335	978	962	725	1096	1254	557	338	1854	1742	1571	1696
(WY)	1953	1998	1998	1998	1998	1998	1993	1957	1982	1968	1960	1960
MIN	5.11	2.58	2.25	3.17	3.31	1.06	.30	.26	.18	2.29	20.7	21.9
(WY)	1985	1962	1957	1974	1975	1975	1975	1967	1956	1956	1980	1984

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1951 - 1999	
ANNUAL TOTAL	133343.1		46131.11			
ANNUAL MEAN	365		126		190	
HIGHEST ANNUAL MEAN					514	1998
LOWEST ANNUAL MEAN					38.4	1956
HIGHEST DAILY MEAN	5520	Mar 22	1180	Oct 1	10700	Aug 1 1960
LOWEST DAILY MEAN	3.8	Jul 6	.80	Apr 27	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	4.8	Jul 1	1.2	Apr 24	.01	Jun 24 1956
INSTANTANEOUS PEAK FLOW			1280	Oct 1	11700	Aug 1 1960
INSTANTANEOUS PEAK STAGE			12.66	Oct 1	17.94	Aug 1 1960
ANNUAL RUNOFF (CFSM)	1.68		.58		.87	
ANNUAL RUNOFF (INCHES)	22.75		7.87		11.85	
10 PERCENT EXCEEDS	878		311		512	
50 PERCENT EXCEEDS	120		47		47	
90 PERCENT EXCEEDS	6.9		4.2		3.5	

02297310 HORSE CREEK NEAR ARCADIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
18...	0955	4.03	98	235	5.80	20.5	--	7.0	--	--	--	--
JAN												
06...	1044	2.93	43	457	6.78	10.0	60	9.2	44	18	8.9	6.1
MAY												
03...	0950	1.50	3.0	773	6.88	20.6	30	5.4	110	40	14	6.2
JUL												
13...	1025	6.25	268	272	5.90	27.2	--	4.7	--	--	--	--
SEP												
29...	0945	5.79	214	259	6.04	26.3	240	5.9	23	9.8	7.6	4.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
18...	--	--	--	--	--	<.01	.38	.05	.79	.42	.37	--
JAN												
06...	140	22	.30	5.9	338	.01	.83	.04	.67	.27	.27	940
MAY												
03...	340	31	.53	.8	677	.01	.03	.03	.40	.37	.34	2200
JUL												
13...	--	--	--	--	--	.02	.36	.09	1.6	.79	.74	--
SEP												
29...	61	17	.23	6.8	235	<.01	.23	.05	1.1	.41	.35	480

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

LOCATION.--Lat 27°04'38", long 82°00'27", in SW$^1/_4$ 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^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--November 1997 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, 5.63 ft, Mar. 24, 1998; minimum, 1.88 ft below NGVD, Feb. 14, 1999.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.20 ft, Sept. 21; minimum, 1.88 ft below NGVD, Feb. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	1.74	-.09	1.41	-1.03	1.47	-1.23	1.88	-.57	1.87	-.59
2	---	---	2.00	-.06	1.32	-1.30	1.83	-.68	2.13	.09	1.87	-.39
3	---	---	2.09	-.10	1.61	-1.17	2.75	-.09	1.92	-.20	1.92	.06
4	---	---	2.20	-.65	1.92	-.98	1.53	-1.41	1.61	-.37	1.15	-.87
5	---	---	.94	-1.18	1.73	-1.16	.40	-1.70	1.32	-.52	1.16	-.61
6	---	---	1.33	-.52	1.63	-1.07	.68	-1.34	1.60	-.48	1.50	-.46
7	---	---	1.41	-.41	1.71	-.84	.92	-1.13	1.73	-.05	1.30	-.41
8	---	---	1.30	-.29	1.48	-.83	1.38	-.37	1.65	.00	.58	-1.25
9	---	---	1.58	-.15	1.03	-.98	1.77	-.03	1.61	-.30	1.91	-.95
10	---	---	1.70	.06	.81	-1.08	1.42	-.44	1.36	-.68	1.54	-.10
11	---	---	1.70	-.05	.76	-.82	.54	-1.50	1.65	-.82	1.20	-.63
12	---	---	1.36	-.33	1.46	-.57	1.45	-1.18	1.68	-.66	1.41	-.98
13	---	---	1.40	-.15	1.59	-.25	1.60	-.65	1.70	-1.34	1.85	-.78
14	---	---	1.63	.05	1.59	-.52	1.86	-.89	.62	-1.88	2.51	.12
15	---	---	1.69	-.23	.72	-1.19	2.00	-.73	.85	-1.31	2.14	-.12
16	---	---	1.71	-.34	1.02	-1.28	1.78	-.99	1.64	-.69	.85	-1.45
17	---	---	1.86	-.43	1.35	-.92	1.85	-.74	2.08	-.16	1.38	-.75
18	1.52	-.12	1.55	-.70	1.25	-1.44	1.85	-.62	2.11	.20	1.48	-.54
19	1.60	-.26	1.59	-.84	1.77	-.89	1.77	-.88	1.94	.19	1.56	-.38
20	1.61	-.33	1.71	-.83	1.76	-1.07	1.64	-.88	1.56	-.26	1.72	-.49
21	1.68	-.31	1.68	-.80	1.94	-.89	1.57	-.62	1.41	-.33	1.99	-.51
22	1.57	-.81	1.27	-1.18	1.73	-.67	1.74	-.13	1.17	-.83	1.52	-.40
23	-.01	-1.69	1.40	-1.00	1.42	-1.04	1.79	.22	1.56	-1.00	1.75	-.91
24	.98	-1.01	1.33	-1.00	1.61	-.61	1.52	-.09	1.61	-.82	1.44	-.78
25	1.19	-.88	1.33	-.83	1.29	-.57	1.00	-1.03	1.56	-.82	1.46	-.92
26	1.22	-.82	1.26	-.92	1.20	-.81	1.31	-.97	1.69	-.95	1.35	-.83
27	1.43	-.78	.80	-.93	1.30	-.90	1.70	-.99	1.88	-.68	1.22	-1.03
28	1.68	-.31	.91	-.77	1.73	-.73	1.82	-.82	1.93	-.30	.92	-1.42
29	1.77	-.25	1.17	-.71	2.05	-.44	1.98	-.70	---	---	1.26	-.80
30	1.86	.00	1.36	-.75	2.19	-.61	2.01	-.60	---	---	1.34	-.59
31	1.74	-.11	---	---	1.51	-1.23	1.98	-.64	---	---	1.61	-.40
MONTH	---	---	2.20	-1.18	2.19	-1.44	2.75	-1.70	2.13	-1.88	2.51	-1.45

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.73	-.20	1.48	-.42	1.57	-.68	2.17	.54	1.98	-.13	---	---
2	1.39	-.48	1.63	-.62	1.89	-.73	2.27	.96	1.70	-.12	---	---
3	1.52	-.61	1.86	-.61	1.75	-.63	2.37	1.20	1.70	-.18	1.84	-.05
4	1.59	-.64	2.14	-.55	1.48	-.83	1.74	.97	1.86	-.02	2.36	.21
5	1.63	-.60	2.20	-.08	1.59	-.82	1.46	.59	2.25	.35	2.55	.32
6	1.69	-.59	2.33	-.09	1.00	-.69	1.62	.21	2.61	.50	2.68	.18
7	1.43	-.73	2.19	.07	.87	-.76	2.00	.32	2.17	-.25	2.34	-.02
8	1.56	-.58	1.73	-.10	.69	-.76	2.18	.39	2.13	-.43	2.49	.22
9	1.56	-.53	1.55	-.31	1.55	-.48	2.05	-.24	2.49	-.16	2.53	.37
10	1.58	-.21	1.47	-.22	1.80	-.27	2.15	-.24	2.53	-.05	2.39	.29
11	1.49	-.45	1.63	-.18	1.67	-.58	2.33	-.17	2.43	-.08	2.13	.23
12	1.46	-.33	1.69	-.05	1.89	-.46	2.28	-.18	2.14	.00	1.84	.00
13	1.22	-.77	1.86	-.11	1.90	-.46	2.32	-.28	2.00	-.17	1.57	-.46
14	1.73	-.26	2.24	.14	1.95	-.47	2.35	-.22	2.14	-.14	1.08	-.92
15	2.70	.71	1.91	-.34	2.16	-.58	2.23	-.26	1.95	.31	1.77	.04
16	1.98	-.35	1.74	-.58	2.22	-.42	1.64	-.16	1.72	.06	2.11	.18
17	1.11	-.81	1.88	-.92	2.68	-.10	1.97	-.51	1.46	-.24	1.73	-.11
18	1.00	-1.13	2.13	-.74	1.86	.78	1.55	-.29	1.61	-.07	2.20	.33
19	1.49	-1.08	2.08	-.56	1.51	.12	1.46	-.39	1.81	.07	2.64	.72
20	1.63	-1.15	1.85	-.43	1.08	.02	1.56	-.10	1.88	.12	2.71	1.65
21	1.69	-.95	1.47	-.55	1.37	-.06	1.52	-.23	1.86	.09	3.20	.88
22	1.66	-.70	1.26	-.62	1.31	-.25	1.53	-.45	1.88	-.12	2.24	.33
23	1.35	-.69	1.32	-.47	1.49	-.14	1.88	-.24	2.11	-.14	2.18	.26
24	1.21	-.63	1.56	-.20	1.72	-.06	2.07	-.19	2.12	-.06	2.47	.52
25	1.54	-.41	1.65	-.17	1.89	.26	2.09	-.33	2.33	.03	2.59	.61
26	1.62	-.32	1.54	-.35	1.98	.40	2.03	-.45	2.23	.03	2.27	.47
27	1.92	.25	1.61	-.46	2.25	.43	2.10	-.43	2.12	.02	2.27	.42
28	2.01	.06	1.61	-.58	2.02	.50	2.22	-.46	2.06	-.05	2.23	.19
29	2.01	.07	1.64	-.58	2.38	.37	2.23	-.30	2.23	.16	2.29	.30
30	1.88	-.18	1.59	-.55	2.33	.62	2.14	-.15	2.17	.27	2.27	.21
31	---	---	1.55	-.79	---	---	2.17	-.19	---	---	---	---
MONTH	2.70	-1.15	2.33	-.92	2.68	-.83	2.37	-.51	---	---	---	---

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

WATER-QUALITY RECORDS

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

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

REMARKS.--Interruptions in record were due to malfunctions of the instruments.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 19,300 microsiemens, Apr. 15, 1999; bottom probe maximum, 19,200 microsiemens, Apr. 15, 1999; top probe minimum, 62 microsiemens, Mar. 24, 1998; bottom probe minimum, 64 microsiemens, Mar. 24, 1998.

TEMPERATURE.--Top probe maximum, 34.1°C, Aug. 17, 1998, Aug. 13, 1999; bottom probe maximum, 33.5°C, July 27, 28 1998; top probe minimum, 13.4°C, Feb. 9, 10, 1998; bottom probe minimum, 13.5°C, Feb. 9, 10, 1998.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 19,300 microsiemens, Apr. 15; bottom probe maximum, 19,200 microsiemens, Apr. 15; top probe minimum, 177 microsiemens, Oct. 1; bottom probe minimum, 180 microsiemens, Oct. 1.

TEMPERATURE.--Top probe maximum, 34.1°C, Aug. 13; bottom probe maximum, 32.9°C, Aug. 1, 2; top probe minimum, 13.7°C, Jan. 7; bottom probe minimum, 13.9°C, Jan. 7.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	179	177	328	304	379	368	669	474	381	367	1580	465
2	---	---	341	311	382	373	1130	471	391	367	1600	467
3	---	---	350	327	387	376	6840	462	378	368	1760	468
4	---	---	360	341	401	379	592	456	379	370	685	465
5	---	---	359	341	401	393	477	456	387	378	658	470
6	---	---	359	301	404	395	470	455	391	380	792	473
7	---	---	301	281	417	398	456	433	393	384	688	476
8	---	---	289	281	440	404	452	432	393	388	528	483
9	---	---	289	284	444	426	473	442	397	387	2900	489
10	---	---	289	284	448	438	470	446	409	389	1240	499
11	---	---	286	281	450	441	451	443	419	404	940	496
12	---	---	281	277	454	443	459	446	452	410	2230	497
13	---	---	279	274	485	444	479	452	466	418	4900	508
14	---	---	290	278	459	450	647	449	433	415	12100	589
15	---	---	302	289	459	452	1110	440	438	395	7240	646
16	---	---	315	300	470	453	723	433	421	329	1320	528
17	---	---	324	314	476	458	780	430	659	332	2380	549
18	250	243	329	316	477	466	687	429	734	356	2110	553
19	255	247	340	326	687	462	591	426	551	384	2070	566
20	264	254	350	336	726	464	500	431	433	385	2460	557
21	271	263	356	344	1020	473	480	441	406	392	3980	556
22	279	270	366	352	719	475	501	445	416	402	1910	569
23	280	274	371	362	539	476	513	457	484	408	3020	561
24	277	249	371	363	595	484	468	440	557	416	1840	575
25	249	240	371	363	520	481	447	424	643	429	2030	576
26	253	243	368	359	516	481	431	381	921	441	1900	584
27	264	252	373	363	505	478	381	360	1590	457	1550	578
28	273	263	377	369	656	475	395	375	1990	475	1020	575
29	282	270	376	370	1300	474	392	370	---	---	1750	585
30	295	278	377	370	3140	476	381	373	---	---	2370	587
31	311	290	---	---	741	475	384	372	---	---	3290	590
MONTH	---	---	377	274	3140	368	6840	360	1990	329	12100	465

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3710	671	2650	907	696	592	279	255	284	269	---	---
2	2460	635	3010	987	901	655	255	204	283	273	---	---
3	3160	616	4850	920	845	722	229	205	288	273	229	221
4	3580	622	8170	918	865	728	251	228	291	270	236	226
5	4200	633	9580	1040	884	699	264	251	298	274	235	228
6	4100	646	11900	1070	743	689	272	264	307	274	247	233
7	3190	655	9600	1340	736	695	276	268	292	281	250	245
8	3920	662	5680	1330	725	673	273	267	299	278	259	248
9	4610	680	5140	1100	795	654	280	271	304	275	268	257
10	5780	748	3150	936	1110	669	283	277	301	281	275	267
11	5090	742	3140	857	1100	686	286	276	299	279	282	274
12	5170	825	3400	851	1530	690	286	275	305	285	297	280
13	4000	738	3720	886	1520	687	298	286	310	287	315	291
14	7340	985	8720	894	876	632	309	298	307	281	329	312
15	19300	2230	4760	952	976	564	321	306	287	262	333	318
16	10600	2220	4050	906	804	552	329	304	292	269	339	325
17	6070	1510	5430	882	626	448	336	318	303	266	359	333
18	5600	1280	8030	926	448	302	331	320	279	243	362	341
19	8210	1310	8240	993	406	304	326	275	311	272	379	345
20	8890	1390	6010	1070	430	406	294	274	315	273	398	343
21	9270	1550	3270	1010	430	416	303	293	283	273	619	345
22	8660	1770	1760	753	458	428	311	301	307	276	345	298
23	7520	1790	1440	687	451	417	320	309	310	288	299	287
24	7020	1770	1340	683	421	356	328	304	290	257	290	280
25	9520	1900	1380	723	356	286	309	290	260	247	285	276
26	10300	2040	1280	737	290	273	309	292	262	250	276	263
27	12200	3410	1320	761	289	276	318	302	264	250	266	261
28	14000	3160	1360	743	292	277	322	301	271	264	287	266
29	11000	1820	1590	681	290	273	330	304	271	263	297	284
30	5410	919	796	590	289	277	312	285	264	249	287	263
31	---	---	743	591	---	---	302	275	---	---	---	---
MONTH	19300	616	11900	590	1530	273	336	204	---	---	---	---

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	181	180	332	307	380	373	684	478	388	373	1590	460
2	---	---	342	314	383	374	1210	476	397	373	1720	465
3	---	---	353	331	389	377	7560	467	384	373	1920	469
4	---	---	364	344	403	382	640	466	382	373	698	466
5	---	---	363	342	403	395	485	464	389	380	676	472
6	---	---	363	301	406	395	480	464	393	381	856	474
7	---	---	301	283	420	399	469	442	394	384	702	477
8	---	---	290	282	442	406	461	443	395	387	533	483
9	---	---	290	284	450	428	484	452	398	387	3300	491
10	---	---	288	284	462	440	480	463	408	388	1370	501
11	---	---	286	281	452	443	463	454	419	401	988	499
12	---	---	281	275	458	443	472	458	451	409	2470	500
13	---	---	279	272	489	448	490	465	464	417	5420	509
14	---	---	289	278	460	449	684	460	433	416	13300	592
15	---	---	301	289	454	446	1310	451	439	396	8090	651
16	---	---	316	300	465	448	768	442	421	328	1400	528
17	---	---	324	313	473	453	824	438	734	331	2620	551
18	251	245	331	317	472	463	745	437	785	354	2290	553
19	257	248	341	327	700	457	619	434	541	379	2280	570
20	267	255	350	336	757	460	512	440	433	382	2720	559
21	274	266	357	345	1090	468	496	449	401	389	4520	562
22	282	274	367	351	726	468	517	458	413	399	2070	577
23	284	278	372	364	546	473	525	468	480	405	3340	569
24	281	252	373	368	590	480	486	449	554	412	2040	587
25	252	242	370	365	516	477	458	434	649	425	2190	589
26	254	245	368	363	514	477	441	388	930	436	1980	595
27	268	254	376	365	501	475	388	366	1630	450	1650	591
28	277	264	379	370	686	475	402	383	2050	465	1130	590
29	285	273	379	370	1380	474	401	378	---	---	1950	600
30	299	281	378	371	3350	479	388	378	---	---	2590	606
31	314	292	---	---	787	478	397	379	---	---	3580	609
MONTH	---	---	379	272	3350	373	7560	366	2050	328	13300	460

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4200	668	2840	901	697	592	273	251	287	268	---	---
2	2690	631	3360	983	909	654	251	200	286	277	---	---
3	3440	617	4990	917	848	713	226	203	288	278	231	223
4	3980	624	8280	906	869	725	248	226	291	275	235	229
5	4550	634	9540	1020	889	698	263	248	302	278	235	230
6	5000	650	11900	1050	738	686	270	254	311	279	248	234
7	3570	657	9900	1310	730	693	274	268	295	285	249	247
8	4330	666	5870	1310	724	671	270	266	301	277	259	248
9	5110	682	5180	1090	815	651	278	270	309	281	268	257
10	6320	756	3290	925	1160	667	283	276	306	260	274	268
11	5540	743	3380	838	1110	660	287	274	302	284	281	272
12	5410	828	3490	831	1550	688	287	277	305	289	295	277
13	4250	741	3960	870	1680	687	302	287	310	290	314	290
14	7850	997	9000	877	920	629	310	299	307	283	325	310
15	19200	2390	4940	932	997	561	325	308	290	264	330	315
16	11200	2300	4310	887	825	549	333	306	295	270	336	322
17	6440	1540	5780	863	620	449	340	323	304	267	357	330
18	5990	1300	8330	916	449	297	336	323	282	243	359	337
19	8710	1350	8400	997	402	299	330	279	314	272	374	342
20	9650	1440	6410	1070	426	402	307	278	313	277	394	341
21	10100	1620	3380	1020	424	409	313	294	286	276	683	341
22	10300	1870	1900	749	455	420	316	305	310	280	341	294
23	8020	1880	1480	685	444	404	327	316	314	291	295	284
24	7580	1860	1460	679	409	348	332	309	293	260	287	276
25	10400	2020	1520	707	348	278	313	295	262	250	279	272
26	11100	2160	1270	729	281	264	315	298	264	253	272	258
27	13000	3650	1340	762	283	269	321	308	266	251	261	257
28	13200	3100	1450	743	285	270	327	307	272	266	283	260
29	10800	1810	1710	681	285	269	335	306	272	264	290	279
30	5950	918	799	588	283	272	315	289	266	250	280	258
31	---	---	741	589	---	---	306	279	---	---	---	---
MONTH	19200	617	11900	588	1680	264	340	200	---	---	---	---

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	24.6	23.2	23.0	21.4	20.4	18.7	22.5	21.0	20.7	19.0
2	---	---	24.8	23.2	23.3	21.4	21.0	19.7	22.5	21.4	20.7	19.0
3	---	---	24.0	23.6	23.7	21.7	21.0	20.0	23.3	21.4	20.3	19.7
4	---	---	24.0	22.5	24.0	22.5	20.0	18.2	23.7	22.1	20.0	18.7
5	---	---	22.5	21.4	24.0	22.5	18.2	15.2	24.1	22.5	20.0	18.4
6	---	---	21.4	20.0	24.0	22.5	15.2	14.1	24.1	22.1	20.7	19.0
7	---	---	20.0	19.0	24.0	22.8	15.5	13.7	23.7	22.5	21.4	19.6
8	---	---	20.4	19.0	23.7	22.5	15.8	14.2	23.7	22.1	21.8	19.7
9	---	---	20.7	19.7	23.7	22.8	16.6	14.9	25.3	22.5	21.4	20.0
10	---	---	21.4	20.0	23.6	22.5	16.6	16.3	23.6	22.5	22.5	20.7
11	---	---	22.1	20.8	23.6	22.5	16.3	14.9	24.0	22.1	22.1	20.6
12	---	---	22.9	21.4	23.7	22.5	16.4	14.4	23.7	22.1	22.5	21.0
13	---	---	22.9	21.7	23.6	22.8	16.9	15.2	23.0	21.3	22.5	21.4
14	---	---	23.7	22.1	23.6	21.7	18.1	16.3	21.4	19.3	22.1	21.4
15	---	---	24.4	22.1	21.7	20.7	18.1	17.2	19.7	17.8	21.4	20.3
16	---	---	24.5	22.5	20.7	19.0	19.7	17.5	19.7	18.1	21.4	19.0
17	---	---	24.9	23.0	19.0	18.1	20.4	18.9	20.0	18.7	21.8	20.0
18	26.2	25.3	24.9	23.6	18.7	16.9	21.0	20.0	21.0	19.5	22.5	20.7
19	27.1	25.3	25.7	24.0	18.7	17.2	21.4	20.3	21.4	20.2	23.5	21.4
20	28.5	25.7	25.9	24.0	19.7	18.1	21.7	20.3	21.4	20.3	23.7	21.7
21	27.6	26.1	26.0	24.4	21.1	19.7	21.8	20.7	21.0	19.6	23.7	22.5
22	27.1	26.1	25.7	24.4	21.7	20.7	22.1	21.0	19.6	18.4	24.1	21.7
23	26.1	24.0	25.7	24.1	22.5	21.0	22.5	21.4	19.4	16.9	24.1	21.7
24	24.1	23.6	25.3	24.4	22.9	21.5	22.5	21.7	19.1	16.6	24.1	21.7
25	24.1	23.2	24.9	24.1	23.1	22.1	21.7	20.4	19.0	16.9	24.1	22.1
26	24.0	23.2	24.9	24.0	22.9	21.7	20.7	19.3	19.4	17.2	23.6	22.5
27	24.1	23.2	24.4	23.6	22.1	21.0	21.4	19.3	19.7	18.1	23.7	22.1
28	24.1	23.2	24.0	22.5	21.7	21.4	21.4	19.7	20.4	18.7	24.0	22.1
29	24.1	23.2	23.0	21.7	21.8	21.0	21.4	20.0	---	---	24.9	22.8
30	25.3	23.2	22.9	21.4	21.7	20.6	21.8	20.0	---	---	24.7	23.6
31	24.9	23.2	---	---	20.6	19.3	21.8	20.7	---	---	24.0	23.2
MONTH	---	---	26.0	19.0	24.0	16.9	22.5	13.7	25.3	16.6	24.9	18.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24.9	23.2	26.6	24.0	29.5	27.5	27.1	26.1	32.9	30.5	---	---
2	26.2	24.0	24.7	23.2	29.5	27.5	26.1	25.3	32.9	30.9	---	---
3	26.4	24.7	25.3	23.2	31.1	27.5	26.8	25.7	31.6	30.0	29.5	28.0
4	27.5	25.3	25.7	23.8	31.3	27.5	27.5	26.1	31.1	29.0	30.3	28.5
5	28.0	26.1	26.6	24.6	31.1	28.0	28.0	26.6	29.6	28.5	29.5	28.5
6	28.5	26.1	27.6	25.7	29.5	28.5	28.5	27.3	29.5	28.5	29.5	28.5
7	29.0	26.5	28.5	26.1	29.5	28.5	29.0	27.5	31.1	28.5	30.0	28.0
8	29.0	26.1	28.5	26.6	29.0	27.5	30.4	28.0	32.3	29.5	28.5	27.5
9	28.0	26.1	27.5	26.9	28.0	27.0	31.7	28.5	31.1	29.5	28.3	27.5
10	28.5	26.6	28.5	26.5	29.5	27.5	31.7	28.4	31.1	29.5	29.5	27.5
11	28.5	27.0	28.0	26.1	30.1	28.0	31.1	28.5	31.7	29.5	30.1	28.5
12	28.5	27.5	27.5	26.6	30.0	28.5	31.1	28.5	31.1	29.5	31.1	29.0
13	28.0	27.0	27.6	26.1	30.0	28.5	32.3	28.5	34.1	29.5	30.6	29.1
14	27.5	26.3	28.0	26.6	31.1	28.5	32.3	29.0	32.9	29.8	30.0	28.5
15	27.5	26.6	28.5	27.0	31.7	29.0	31.1	28.5	32.1	30.0	29.5	28.0
16	27.5	26.6	28.5	27.0	30.0	28.9	31.1	27.5	32.3	30.0	30.0	28.3
17	27.1	24.4	28.5	27.0	29.0	26.1	29.5	28.5	31.1	28.5	30.0	29.0
18	25.0	23.6	29.0	27.0	26.1	24.8	29.5	28.4	29.0	27.5	29.5	29.0
19	24.9	22.8	30.0	27.5	26.1	24.4	29.5	28.5	28.5	28.0	29.0	28.0
20	25.7	22.7	29.5	27.0	26.1	24.8	30.1	28.0	28.3	27.5	28.0	26.6
21	25.7	22.8	29.0	27.0	26.6	25.3	31.1	29.5	29.5	27.5	26.7	26.1
22	26.5	23.6	28.5	26.1	28.0	26.1	32.6	29.5	28.5	27.0	27.1	25.7
23	27.1	24.4	28.5	26.6	29.5	27.0	31.1	29.5	29.5	27.1	27.1	25.7
24	27.6	25.7	29.0	27.0	30.0	27.0	31.7	29.5	32.0	27.0	27.1	25.3
25	28.0	26.2	29.0	27.5	28.0	26.6	32.2	29.5	29.5	27.5	26.1	25.3
26	28.5	27.0	29.5	27.5	27.2	26.1	32.3	30.0	30.5	28.0	26.6	25.3
27	29.0	27.5	29.5	27.5	27.6	26.4	33.6	30.0	30.6	28.5	26.6	25.7
28	28.5	27.5	29.5	28.0	27.1	26.2	32.9	30.5	31.1	29.5	27.5	26.1
29	28.5	27.0	30.0	28.0	27.1	26.1	32.3	30.5	31.5	29.5	28.0	27.0
30	28.0	26.6	29.0	27.5	27.6	26.1	32.3	30.0	32.3	30.0	28.5	27.5
31	---	---	29.0	27.5	---	---	32.9	30.0	---	---	---	---
MONTH	29.0	22.7	30.0	23.2	31.7	24.4	33.6	25.3	---	---	---	---

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	24.7	23.2	23.3	21.4	20.4	18.7	22.5	21.2	20.7	19.3
2	---	---	24.9	23.6	23.3	21.6	21.2	19.7	22.5	21.4	21.1	19.0
3	---	---	24.2	23.6	23.7	21.8	21.0	20.0	23.3	21.6	20.7	19.7
4	---	---	24.0	22.5	24.0	22.5	20.0	18.4	23.7	22.4	20.0	18.7
5	---	---	22.5	21.4	24.0	22.5	18.4	15.3	24.1	22.5	20.1	18.4
6	---	---	21.4	20.0	24.0	22.6	15.3	14.1	24.1	22.4	20.8	19.0
7	---	---	20.2	19.3	24.0	22.8	15.8	13.9	23.7	22.5	21.4	19.6
8	---	---	20.4	19.0	23.7	22.8	16.1	14.2	23.9	22.4	21.8	19.9
9	---	---	20.7	19.7	23.7	22.8	16.6	14.9	25.1	22.5	21.4	20.0
10	---	---	21.4	20.0	23.7	22.8	16.9	16.3	23.7	22.5	22.5	20.7
11	---	---	22.2	21.0	23.6	22.5	16.3	14.9	24.0	22.4	22.1	20.7
12	---	---	22.9	21.7	23.7	22.5	16.5	14.7	23.7	22.5	22.5	21.0
13	---	---	22.9	21.7	23.6	22.8	16.9	15.2	23.2	21.3	22.5	21.4
14	---	---	23.7	22.1	23.6	21.7	18.1	16.3	21.4	19.3	22.5	21.4
15	---	---	23.7	22.1	21.7	20.7	18.3	17.2	19.7	18.1	21.6	20.3
16	---	---	24.1	22.5	20.7	19.0	19.7	17.8	19.7	18.1	21.4	19.3
17	---	---	24.9	23.2	19.3	18.1	20.7	19.0	20.0	18.7	21.8	20.0
18	26.2	25.5	24.9	23.6	18.7	17.2	21.0	20.0	21.0	19.7	22.5	20.7
19	26.6	25.3	25.7	24.0	18.7	17.5	21.4	20.7	21.4	20.3	23.7	21.4
20	27.0	25.7	26.1	24.0	20.0	18.4	21.8	20.6	21.8	20.6	23.7	21.7
21	27.5	26.1	26.2	24.8	21.4	19.7	21.8	20.7	21.2	19.6	23.7	22.5
22	27.1	26.1	25.7	24.8	21.8	20.7	22.1	21.0	19.6	18.4	24.1	21.7
23	26.1	24.0	25.7	24.4	22.5	21.1	22.5	21.4	19.0	16.9	24.1	21.7
24	24.4	23.6	25.3	24.4	22.9	21.7	22.5	21.7	18.7	16.9	24.1	21.7
25	24.1	23.2	24.9	24.4	23.3	22.1	21.7	20.6	19.0	16.9	24.1	22.1
26	24.1	23.2	24.9	24.0	22.9	21.8	20.7	19.6	19.4	17.2	23.6	22.5
27	24.1	23.6	24.7	23.6	22.1	21.0	21.4	19.7	19.7	18.1	24.0	22.4
28	24.1	23.6	24.0	22.8	22.1	21.4	21.4	19.7	20.4	18.7	24.1	22.1
29	24.1	23.6	23.0	22.1	21.8	21.0	21.4	20.0	---	---	24.9	22.8
30	24.5	23.6	22.9	21.4	21.7	20.6	21.8	20.3	---	---	24.9	23.6
31	24.5	23.2	---	---	20.6	19.3	22.1	21.0	---	---	24.3	23.6
MONTH	---	---	26.2	19.0	24.0	17.2	22.5	13.9	25.1	16.9	24.9	18.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24.9	23.6	26.6	24.4	29.5	27.5	27.2	26.1	32.9	30.5	---	---
2	26.3	24.0	24.9	23.6	29.5	27.5	26.4	25.3	32.9	31.1	---	---
3	26.6	24.8	25.7	23.6	30.9	27.5	27.1	25.7	31.6	30.0	29.5	28.3
4	27.5	25.7	26.2	24.0	31.2	27.5	27.5	26.1	30.6	29.5	29.5	28.5
5	28.0	26.1	26.6	24.8	31.1	28.0	28.0	27.0	30.0	28.5	29.5	28.5
6	28.5	26.2	27.6	25.7	30.0	28.5	28.5	27.5	29.5	29.0	29.5	28.5
7	29.0	26.6	28.5	26.5	29.5	28.5	29.5	27.5	30.1	28.5	29.4	28.3
8	29.0	26.1	28.5	26.6	29.0	27.5	29.5	28.0	31.2	29.5	28.5	27.7
9	28.0	26.6	27.5	27.0	28.1	27.5	29.5	28.5	31.1	29.8	28.5	27.5
10	28.5	26.6	28.0	26.6	29.5	27.5	30.6	28.5	31.1	29.5	29.5	27.6
11	28.5	27.0	28.0	26.3	30.1	28.0	30.1	28.5	31.1	29.5	30.1	28.5
12	28.5	27.5	27.5	26.7	30.0	28.5	29.5	28.5	30.6	29.5	31.1	29.0
13	28.0	27.0	27.6	26.1	30.3	29.0	31.7	28.5	32.0	29.5	31.1	29.5
14	28.0	26.6	28.0	26.6	31.1	28.5	31.1	29.0	32.3	30.0	30.0	29.0
15	27.5	26.6	28.5	27.0	31.7	29.2	30.3	28.5	31.9	30.0	29.5	28.1
16	27.5	26.6	28.5	27.0	30.0	29.0	30.0	27.5	32.3	30.0	30.0	28.5
17	27.5	24.7	28.5	27.0	29.5	26.1	29.6	28.5	31.1	28.5	30.4	29.0
18	25.3	23.6	29.0	27.0	26.1	24.8	29.8	28.5	29.0	27.5	29.5	29.0
19	24.9	22.9	30.0	27.5	26.2	24.4	29.5	28.5	28.5	28.0	29.0	28.0
20	25.7	22.8	29.4	27.0	26.1	25.3	30.3	28.0	28.5	27.5	28.0	26.6
21	25.7	23.2	29.0	27.0	27.1	25.3	31.1	29.5	29.0	27.5	27.1	26.3
22	26.4	23.6	28.0	26.1	28.0	26.1	31.7	29.5	28.5	27.5	27.5	25.8
23	27.1	24.8	28.5	26.6	28.5	27.0	30.6	29.5	29.0	27.5	26.6	25.7
24	27.6	25.7	29.0	27.0	28.5	27.1	31.7	29.5	28.5	27.0	26.3	25.7
25	28.0	26.6	29.1	27.5	28.0	26.6	31.1	29.5	29.5	27.5	26.1	25.7
26	28.7	27.0	29.5	27.5	27.5	26.3	31.7	30.0	30.0	28.0	26.1	25.7
27	29.1	27.5	29.5	27.9	27.6	26.6	32.6	30.0	30.0	29.0	26.6	25.7
28	29.0	27.5	29.5	28.0	27.1	26.6	32.3	30.5	31.1	29.5	27.5	26.1
29	28.5	27.0	30.0	28.5	27.3	26.1	32.3	30.6	31.1	29.5	28.3	27.0
30	28.0	26.6	29.0	27.5	27.6	26.1	31.9	30.3	32.3	30.0	28.5	27.5
31	---	---	29.4	27.5	---	---	32.8	30.1	---	---	---	---
MONTH	29.1	22.8	30.0	23.6	31.7	24.4	32.8	25.3	---	---	---	---

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FIELD DETERMINATIONS

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1250	.30	3.45	276	7.3	24.6	5.7
29...	1251	.50	--	279	7.3	24.6	5.8
29...	1252	1.0	--	273	7.3	24.5	5.7
29...	1253	1.5	--	276	7.3	24.5	5.7
29...	1254	2.0	--	277	7.3	24.5	5.7
29...	1255	2.5	--	278	7.3	24.5	5.7
29...	1256	3.0	--	278	7.3	24.5	5.7
29...	1257	3.3	--	275	7.3	24.5	5.7
NOV							
18...	1236	.30	3.35	325	7.3	24.7	6.3
18...	1237	.50	--	325	7.3	24.5	6.2
18...	1238	1.0	--	326	7.3	24.0	6.2
18...	1239	1.5	--	326	7.3	23.9	6.2
18...	1240	2.0	--	326	7.3	23.8	6.2
18...	1241	2.5	--	326	7.2	23.8	6.1
18...	1242	3.0	--	326	7.2	23.8	6.1
DEC							
29...	1235	.30	3.15	593	7.7	21.8	6.4
29...	1236	.50	--	573	7.7	21.8	6.4
29...	1237	1.0	--	590	7.6	21.8	6.3
29...	1238	1.5	--	588	7.6	21.7	6.3
29...	1239	2.0	--	593	7.6	21.7	6.3
29...	1240	2.5	--	583	7.6	21.7	6.3
29...	1241	3.0	--	591	7.6	21.7	6.3
JAN							
26...	1324	.30	3.05	413	7.5	20.6	6.8
26...	1325	.50	--	414	7.5	20.5	6.8
26...	1326	1.0	--	413	7.5	20.3	6.8
26...	1327	1.5	--	407	7.4	20.2	6.8
26...	1328	2.0	--	413	7.4	20.2	6.7
26...	1329	2.5	--	410	7.4	20.2	6.7
26...	1330	3.0	--	408	7.4	20.2	6.7
FEB							
23...	1328	.30	3.35	426	7.7	20.1	7.4
23...	1329	.50	--	425	7.7	20.0	7.4
23...	1330	1.0	--	429	7.7	18.6	7.3
23...	1331	1.5	--	424	7.7	18.4	7.2
23...	1332	2.0	--	429	7.6	18.3	7.2
23...	1333	2.5	--	429	7.6	18.2	7.2
23...	1334	3.0	--	425	7.6	18.1	7.2
MAR							
23...	1231	.30	3.25	763	7.6	23.0	6.7
23...	1232	.50	--	766	7.6	22.9	6.7
23...	1233	1.0	--	762	7.6	22.9	6.7
23...	1234	1.5	--	799	7.6	22.6	6.6
23...	1235	2.0	--	821	7.6	22.5	6.6
23...	1236	2.5	--	836	7.6	22.5	6.5
23...	1237	3.0	--	806	7.6	22.4	6.4
APR							
20...	1110	.30	3.15	3400	7.5	23.6	6.4
20...	1111	.50	--	3430	7.5	23.6	6.3
20...	1112	1.0	--	3580	7.5	23.5	6.3
20...	1113	1.5	--	3750	7.5	23.2	6.1
20...	1114	2.0	--	3820	7.4	23.2	6.1
20...	1115	2.5	--	3850	7.4	23.2	6.1
20...	1116	3.0	--	3810	7.4	23.1	5.9
MAY							
26...	1116	.30	3.15	773	7.3	28.5	4.7
26...	1117	.50	--	771	7.3	28.5	4.7
26...	1118	1.0	--	778	7.3	28.5	4.6
26...	1119	1.5	--	774	7.3	28.5	4.6
26...	1120	2.0	--	783	7.3	28.4	4.6
26...	1121	2.5	--	778	7.3	28.4	4.5
26...	1122	3.0	--	784	7.2	28.3	4.5

02297350 PEACE RIVER NEAR PEACE RIVER HEIGHTS NEAR FORT OGDEN, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
JUN							
23...	1052	.30	3.55	435	7.1	30.9	4.9
23...	1053	.50	--	433	7.1	30.1	4.8
23...	1054	1.0	--	432	7.1	27.6	4.6
23...	1055	1.5	--	433	7.0	27.1	4.7
23...	1056	2.0	--	435	7.0	26.9	4.6
23...	1057	2.5	--	434	7.0	26.9	4.6
23...	1058	3.0	--	432	7.0	26.8	4.6
23...	1059	3.4	--	435	7.0	26.8	4.6
JUL							
28...	1110	.30	4.05	306	7.6	31.6	4.6
28...	1111	.50	--	307	7.6	31.3	4.6
28...	1112	1.0	--	319	7.5	30.8	4.6
28...	1113	1.5	--	317	7.5	30.7	4.6
28...	1114	2.0	--	304	7.4	30.6	4.6
28...	1115	2.5	--	303	7.4	30.6	4.5
28...	1116	3.0	--	314	7.4	30.5	4.5
28...	1117	3.5	--	323	7.4	30.5	4.5
28...	1118	3.9	--	303	7.3	30.5	4.4
AUG							
24...	1050	.30	3.95	285	7.0	27.8	5.3
24...	1051	.50	--	285	7.0	27.8	5.2
24...	1052	1.0	--	289	7.0	27.2	5.3
24...	1053	1.5	--	283	7.0	27.2	5.3
24...	1054	2.0	--	283	7.0	27.2	5.3
24...	1055	2.5	--	290	7.0	27.1	5.3
24...	1056	3.0	--	292	7.0	27.1	5.3
24...	1057	3.5	--	282	7.0	27.1	5.2
24...	1058	3.8	--	287	7.0	27.1	5.2
SEP							
24...	1125	.30	3.55	280	7.1	25.7	5.3
24...	1126	.50	--	280	7.1	25.7	5.3
24...	1127	1.0	--	278	7.1	25.7	5.3
24...	1128	1.5	--	281	7.1	25.7	5.3
24...	1129	2.0	--	280	7.1	25.6	5.3
24...	1130	2.5	--	281	7.0	25.6	5.3
24...	1131	3.0	--	283	7.0	25.6	5.3

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL

LOCATION.--Lat 26°59'14", long 81°59'40", in NE$^1/_4$ 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^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--August 1996 to current year (gage heights 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.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 4.60 ft, Oct. 8, 1996; minimum, 2.12 ft below NGVD, Oct. 23, 1998.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 3.32 ft, Sept. 21; minimum, 2.12 ft below NGVD, Oct. 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2.39	---	---	---	1.45	-.90	1.55	-1.09	1.96	-.48	1.96	-.41
2	---	---	---	---	1.37	-1.19	2.12	-.57	2.25	.17	1.98	-.19
3	---	---	---	---	1.69	-1.06	3.11	.29	2.01	-.06	2.04	.22
4	---	---	---	---	2.01	-.90	1.60	-1.17	1.67	-.18	1.22	-.64
5	---	---	---	---	1.80	-1.08	.53	-1.55	1.37	-.31	1.22	-.43
6	---	---	---	---	1.69	-.97	.71	-1.18	1.65	-.29	1.57	-.25
7	---	---	1.36	-1.10	1.76	-.70	.95	-.98	1.79	.14	1.36	-.34
8	---	---	1.27	-.93	1.52	-.67	1.44	-.19	1.70	.18	.64	-1.04
9	---	---	1.60	.79	1.06	-.79	1.98	.15	1.67	.79	2.01	-.76
10	---	---	1.76	-.17	.85	-.91	1.30	-.21	1.43	-.48	1.62	.09
11	---	---	1.70	-.17	.76	-.63	.58	-1.29	1.74	-.63	1.32	-.42
12	---	---	1.39	-.42	1.50	-.38	1.58	-1.01	1.75	-.48	1.47	-.77
13	---	---	1.48	-.16	1.67	-.07	1.68	-.46	1.75	-1.11	1.98	-.57
14	---	---	1.65	.10	1.54	-.30	2.08	-.71	.82	-1.81	2.75	.21
15	---	---	1.72	-.18	.73	-.99	2.10	-.57	1.03	-1.23	2.27	.11
16	---	---	1.75	-.28	1.29	.18	1.86	-.85	1.69	-.55	.97	-1.23
17	---	---	1.91	-.36	1.42	-.72	1.93	-.62	2.19	-.05	1.47	-.55
18	1.54	-.18	1.60	-.64	1.61	-1.27	1.95	-.49	2.22	.29	1.62	-.33
19	1.61	-.29	1.61	-.78	1.85	-.72	1.86	-.71	2.03	.36	1.70	-.29
20	1.64	-.34	1.75	-.76	1.85	-.91	1.70	-.70	1.63	-.03	1.84	-.29
21	1.71	-.26	1.73	-.70	2.05	-.74	1.62	-.42	1.52	-.13	2.13	-.32
22	1.03	-.89	1.29	-1.11	1.82	-.46	1.66	-.02	1.23	-.60	1.63	-.19
23	.00	-2.12	1.43	-.89	1.49	-.85	1.72	.37	1.65	-.78	1.81	-.69
24	.97	-1.13	1.36	-.85	1.69	-.41	1.52	.16	1.69	-.63	1.52	-.60
25	1.29	-.91	1.37	-.69	1.36	-.37	1.05	-.90	1.63	-.62	1.55	-.72
26	1.27	-.79	1.29	-.77	1.26	-.63	1.35	-.96	1.90	-.75	1.28	-.65
27	1.49	-.72	.75	-.71	1.39	-.65	1.78	-.97	1.97	.56	1.23	-.82
28	1.74	-.18	1.00	-.60	1.91	-.51	2.01	-.77	2.02	-.17	1.16	-1.25
29	1.83	-.11	1.36	-.55	2.32	-.24	2.05	-.66	---	---	1.32	-.63
30	1.92	.15	1.41	-.59	2.32	-.38	2.09	-.53	---	---	1.41	-.42
31	---	---	---	---	1.58	-1.06	2.08	-.54	---	---	1.72	-.28
MONTH	---	---	---	---	2.32	-1.27	3.11	-1.55	2.25	-1.81	2.75	-1.25

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.80	-.08	1.61	-.46	1.64	-.55	---	---	2.08	-.04	1.96	-.05
2	1.49	-.42	1.73	-.47	2.01	-.61	---	---	1.76	.01	1.82	-.20
3	1.59	-.42	1.98	-.46	1.95	-.51	---	---	1.76	-.04	1.87	-.03
4	1.68	-.47	2.25	-.40	1.59	-.71	---	---	1.94	.12	2.39	.21
5	1.70	-.42	2.38	.06	1.72	-.67	---	---	2.36	.47	2.60	.30
6	1.75	-.41	2.41	.06	1.07	-.54	---	---	2.72	.48	2.77	.19
7	1.49	-.54	2.30	.22	.93	-.59	---	---	2.23	-.20	2.45	.04
8	1.63	-.37	1.81	.05	.79	-.60	---	---	2.22	-.41	2.61	.37
9	1.63	-.33	1.65	-.12	1.61	-.31	---	---	2.69	-.20	2.69	.46
10	1.61	-.01	1.54	-.03	1.90	-.14	---	---	2.67	-.09	2.54	.47
11	1.61	-.25	1.73	.00	1.79	-.48	---	---	2.59	.02	2.26	.36
12	1.53	-.11	1.80	.14	2.02	-.39	---	---	2.22	-.11	1.92	.14
13	1.31	-.54	1.97	.03	2.03	-.49	---	---	2.08	-.11	1.63	-.25
14	1.84	-.10	2.41	.23	2.06	-.56	---	---	2.22	-.05	1.15	-.69
15	2.94	.83	2.10	-.51	2.27	-.58	---	---	2.02	.30	1.84	.46
16	2.09	-.31	1.89	-.64	2.36	-.46	---	---	1.86	.19	2.21	.34
17	1.21	-.91	2.04	-.80	2.59	-.12	---	---	1.50	-.13	1.81	.08
18	1.13	-.97	2.28	-.61	1.79	.13	---	---	1.70	.06	2.31	.40
19	1.58	-.92	2.19	-.44	1.46	-.22	---	---	1.86	.13	2.71	.85
20	1.72	-.99	1.95	-.31	1.13	-.21	---	---	1.98	.16	2.83	1.71
21	1.75	-.78	1.64	-.39	1.46	-.13	---	---	1.94	.09	3.32	.78
22	1.75	-.51	1.32	-.45	1.34	-.25	1.62	-.36	1.91	-.11	2.28	.25
23	1.43	-.50	1.40	-.29	---	---	1.92	-.14	2.15	-.20	2.20	.16
24	1.27	-.44	1.62	-.03	---	---	2.13	-.12	2.16	-.15	2.49	.36
25	1.64	-.21	1.69	-.01	---	---	2.18	-.26	2.39	-.16	2.65	.55
26	1.69	-.10	1.60	-.18	---	---	2.10	-.39	2.31	-.13	2.30	.39
27	2.04	.42	1.68	-.32	---	---	2.21	-.41	2.18	-.11	2.30	.30
28	2.13	.19	1.70	-.44	---	---	2.31	-.25	2.14	-.08	2.27	.06
29	2.14	.20	1.73	-.43	---	---	2.34	-.23	2.31	.19	2.32	.19
30	2.05	-.25	1.62	-.70	---	---	2.22	-.09	2.24	.29	2.30	.06
31	---	---	1.64	-.70	---	---	2.26	-.11	1.94	.13	---	---
MONTH	2.94	-.99	2.41	-.80	---	---	---	---	2.72	-.41	3.32	-.69

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1996 to current year. Records of specific conductance and temperature prior to October 1996 are available in files of the Geological Survey.

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

REMARKS.--Interruptions in record were due to malfunctions of the instruments.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 36,500 microsiemens, Apr. 15, 1999; bottom probe maximum, 39,300 microsiemens, Apr. 23, 1997; top probe minimum, 78 microsiemens, Mar. 24, 25, 1998; bottom probe minimum, 81 microsiemens, Mar. 24, 25, 1998.

TEMPERATURE.--Top probe maximum, 35.4°C, July 29, 1998; bottom probe maximum, 35.7°C, July 29, 1998; top probe minimum, 9.1°C, Dec. 20, 1996; bottom probe minimum, 9.5°C, Dec. 20, 1996.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 36,500 microsiemens, Apr. 15; bottom probe maximum, 36,200 microsiemens, Apr. 15, 28; top probe minimum, 185 microsiemens, Oct. 1; bottom probe minimum, 237 microsiemens, Oct. 1.

TEMPERATURE.--Top probe maximum, 34.2°C, July 21; bottom probe maximum, 34.4°C, July 21, 28; Aug. 1, 13; top probe minimum, 11.4°C, Jan. 6; bottom probe minimum, 12.0°C, Jan. 6.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	211	185	12400	1210	13600	1430	19300	6670	15300	1510	24100	11700
2	---	---	15900	1830	12000	919	24900	9510	18800	3320	22200	9970
3	---	---	16000	736	15300	1650	31400	11900	16400	2330	22700	11200
4	---	---	19100	1140	18700	2460	18700	5800	11300	1670	17700	7450
5	---	---	4050	749	16700	2000	13500	4580	11000	1100	16900	8980
6	---	---	2910	511	15100	2380	12000	4550	15600	2160	21100	10300
7	---	---	726	440	15300	2820	14600	3980	17000	3150	19300	9540
8	---	---	822	376	13100	2990	18600	6220	14700	3370	16500	6690
9	---	---	1100	363	14200	3500	23600	3650	13700	5650	27400	10300
10	---	---	2820	373	14300	4560	16600	6650	13000	3570	21900	13900
11	---	---	2320	362	13200	5660	15700	5000	17300	4890	19100	11400
12	---	---	1920	366	16400	8260	20300	7710	25300	8120	21900	12600
13	---	---	3090	343	17500	8940	24500	10300	25200	6680	27600	14700
14	---	---	4400	354	17500	7590	29400	9470	13600	5670	32100	18000
15	---	---	4300	350	12000	5380	30300	8720	19300	6220	28200	17200
16	---	---	4870	360	12700	9530	26400	7530	22300	7270	20900	10600
17	---	---	5780	485	14800	3930	25200	8280	28600	10400	23200	13400
18	1810	249	3540	401	14500	3850	25400	8360	26200	11800	24800	14200
19	2070	271	6970	560	17600	5510	24600	6070	24000	10200	26600	10200
20	2350	276	8130	671	19100	1540	23800	5560	20700	7370	27500	9640
21	3470	366	8840	746	20500	5720	22000	7320	18200	7610	30300	11100
22	1170	316	7340	627	19300	7280	23500	10000	16500	6280	26200	11700
23	1080	277	8920	964	17700	4960	23000	11400	21100	8260	28900	11900
24	3900	243	9280	1080	20300	7290	16900	7220	18900	8980	25500	11500
25	4360	657	15900	2230	19600	8240	8520	3140	19500	8980	25300	11500
26	5800	795	11300	2910	17600	7790	9580	2160	22900	12100	24300	15100
27	7170	845	8540	5270	19000	7250	16600	2330	23500	15000	23000	12800
28	9780	1580	11100	4740	21200	9700	20500	1650	24600	11300	21900	11600
29	11600	900	12500	3930	28600	11100	21600	1930	---	---	23700	14500
30	13900	1490	12200	2830	28500	10700	19400	1950	---	---	25700	16300
31	13000	2610	---	---	19200	7210	19200	1670	---	---	26600	17500
MONTH	---	---	19100	343	28600	919	31400	1650	28600	1100	32100	6690

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	28200	17100	28700	18200	17000	7080	795	328	1300	505	641	317
2	26500	16200	28400	16100	25500	7360	723	284	853	464	406	298
3	27300	14400	30900	16200	24500	8880	686	241	1160	441	717	295
4	28100	15100	32800	16800	16600	7460	646	270	1250	437	2520	284
5	28700	15400	32800	19800	21400	8430	533	288	7260	472	2170	288
6	28300	15900	33800	19100	17600	9320	709	321	7510	513	2160	291
7	24100	14700	32900	20000	16300	9360	855	338	2840	452	1030	309
8	27500	14800	29800	19000	17800	10200	1460	348	2120	426	1620	309
9	28100	16000	27900	16100	21700	11600	645	355	6830	486	3300	319
10	28300	17000	25600	17000	24800	12900	1320	378	6890	495	2950	334
11	28000	16600	27100	17400	23600	10600	---	---	5050	503	2100	373
12	26800	18900	28400	17600	25900	11100	---	---	2470	502	1190	369
13	26000	17900	29700	18600	24400	9420	---	---	1780	414	1230	352
14	30000	20200	32600	20700	23100	8900	---	---	4290	495	3930	361
15	36500	24500	30500	17000	25600	6300	---	---	2110	481	7260	1770
16	32800	19900	27800	16100	23800	5330	---	---	1100	410	7280	1460
17	26900	19700	29200	14600	20500	5050	---	---	811	369	5610	1060
18	27400	16800	33300	16000	5540	924	---	---	518	369	11300	1440
19	29200	17200	32200	17000	2970	549	---	---	938	358	13900	2870
20	30600	18000	29100	17400	2150	510	---	---	1480	334	13200	4120
21	29300	18500	24600	16600	1660	504	---	---	757	345	14300	1250
22	29700	18000	23600	13200	2280	509	1150	377	453	315	4390	556
23	27300	19500	23400	14200	3580	784	1130	408	466	326	1840	467
24	26900	20300	25800	15100	4700	663	743	407	489	330	2210	435
25	30200	21700	25500	15100	2520	502	767	432	643	342	3500	407
26	30700	22800	24500	14000	1240	430	722	446	452	322	1090	369
27	33100	24800	24500	13900	913	336	824	454	537	316	1210	375
28	33100	24200	25000	13000	946	360	2840	456	1320	321	777	381
29	32600	22900	24200	11700	776	338	2920	459	1290	320	1930	328
30	32200	21700	21100	10700	754	326	1580	508	765	331	1720	347
31	---	---	19700	7230	---	---	1640	499	462	332	---	---
MONTH	36500	14400	33800	7230	25900	326	---	---	7510	315	14300	284

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	434	237	13800	2660	14800	1460	20600	6710	17300	1470	24400	7890
2	---	---	17500	3140	13300	986	25300	6740	21300	3560	22400	7900
3	---	---	17200	2720	18000	1690	31300	10600	17500	2430	23700	10800
4	---	---	19500	1160	22600	2570	20100	4840	15000	2050	18500	7480
5	---	---	4330	744	18700	2100	12800	4010	14800	1360	18200	9040
6	---	---	3080	510	17700	2450	11200	4520	19800	2560	21400	10000
7	---	---	1110	452	18200	3040	17000	3980	21800	3810	21300	9340
8	---	---	839	386	15900	3260	19900	5140	18600	4090	17500	5180
9	---	---	1140	367	14600	3690	25300	5850	18400	8020	27200	9910
10	---	---	4950	382	15400	4760	16600	6100	21200	3700	22500	12800
11	---	---	2540	426	14500	5710	17800	4140	21300	5680	20500	10500
12	---	---	2130	370	19300	8000	21800	7530	28200	7690	22500	11600
13	---	---	4100	350	18700	9300	27500	10600	26900	5380	27600	12800
14	---	---	6340	380	18100	7560	29800	8670	16300	5260	31600	15700
15	---	---	5560	352	13100	5520	30700	9020	24000	5820	28400	15100
16	---	---	6330	360	15400	9460	27500	7440	27100	8440	21000	8640
17	---	---	8380	480	16000	3630	27700	7630	31600	11800	23100	11500
18	2260	265	5350	392	18600	2890	26500	6200	29300	13200	25100	13300
19	3230	287	8670	560	20800	4480	25000	5620	27000	11100	26200	14100
20	3070	283	10700	652	21300	3680	23400	5480	22800	8350	26800	11200
21	4710	376	10600	743	24100	5450	22700	7160	19400	8360	29300	12300
22	1290	328	7760	638	23400	6990	23000	9550	18200	6150	24800	12400
23	1130	241	12700	979	20000	4930	23300	10200	24500	8160	27700	9300
24	4600	365	10100	1090	22500	6680	16400	6930	20600	9430	25000	11400
25	4430	309	16300	2310	20800	7690	10700	3010	20600	9070	23900	11000
26	7450	303	11400	2950	20300	6320	16100	2090	24300	7050	23700	10600
27	7910	649	8580	4130	20600	5800	20100	2230	25100	13400	21000	11600
28	11900	1110	11200	4730	26100	8310	22300	1640	25400	11400	22300	10300
29	14200	1830	13500	4160	29200	8670	22100	1900	---	---	25300	14200
30	17000	3270	13800	2930	29500	7780	21400	1910	---	---	25200	14200
31	14000	2700	---	---	20800	7350	20800	1500	---	---	27200	14100
MONTH	---	---	19500	350	29500	986	31300	1500	31600	1360	31600	5180

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	28800	16300	31100	18100	21300	6590	825	343	1340	476	661	313
2	27300	16300	31000	14900	26000	6400	720	286	845	439	402	283
3	27900	13900	33000	16000	28800	8090	694	243	1210	418	762	278
4	28800	15100	34300	14300	24200	7060	645	266	1440	416	3240	264
5	29700	15500	34100	18400	22300	8190	527	287	7900	452	2910	270
6	29400	15200	35100	16700	19600	8560	691	317	10200	498	2920	276
7	27200	14500	33700	19900	17300	9010	1670	331	3330	427	1180	295
8	28300	14600	30000	18200	20400	9790	2090	346	2540	405	2330	295
9	29000	15400	27800	15200	26800	11700	630	338	6880	463	3770	307
10	28800	14500	26600	16000	26900	12900	1510	357	7820	466	4310	322
11	28900	16000	28200	16400	26800	10300	---	---	5620	474	2830	364
12	27700	18300	28700	16500	29700	12600	---	---	2530	476	1330	366
13	26100	17200	31200	16900	29400	9050	---	---	2140	415	1590	339
14	29800	19500	34700	19400	29100	9050	---	---	5310	472	4770	352
15	36200	23000	31600	16800	30700	6620	---	---	2490	472	8290	1900
16	32700	17400	28600	15000	27200	5760	---	---	1020	381	8500	1550
17	27500	17200	31800	14400	23700	5340	---	---	806	341	6140	1050
18	26400	13500	33500	14900	6400	1060	---	---	483	346	14800	1420
19	28300	14600	32200	15900	3370	643	---	---	1120	335	17000	3110
20	29900	14000	29800	15400	2420	588	---	---	2050	314	16100	4490
21	27800	14100	24300	14800	2350	579	---	---	934	331	18400	1400
22	29400	18800	23800	11800	3260	601	1530	363	431	294	4940	575
23	26500	15900	24000	12100	7900	923	1250	393	443	282	2100	476
24	26900	18900	28000	13200	7560	718	744	374	464	307	3010	436
25	30500	19600	27900	15300	3260	535	765	397	724	325	5080	403
26	31100	20300	26900	14100	1340	471	686	405	444	309	1430	363
27	33500	20800	25900	13400	961	372	787	408	561	305	1540	352
28	36200	23900	26300	12100	985	379	3540	410	2070	307	795	371
29	35300	21000	25800	11300	808	360	2970	436	1420	312	2860	319
30	33900	20700	21800	9930	771	341	1670	483	786	324	2160	338
31	---	---	21300	6590	---	---	1830	482	458	326	---	---
MONTH	36200	13500	35100	6590	30700	341	---	---	10200	282	18400	264

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	26.4	23.3	24.9	22.2	20.7	18.4	23.7	21.4	23.5	19.4
2	---	---	25.7	23.3	24.5	21.8	21.6	19.4	23.6	21.9	22.7	19.5
3	---	---	24.9	23.7	24.5	22.5	21.1	20.1	23.7	22.2	21.9	19.8
4	---	---	24.5	22.2	24.5	22.9	20.4	16.9	24.4	22.2	21.2	17.9
5	---	---	22.5	20.4	24.5	22.9	18.4	13.2	24.9	22.5	21.0	17.6
6	---	---	21.4	18.2	25.3	23.6	15.8	11.4	24.9	21.8	21.6	18.8
7	---	---	21.1	18.7	24.9	23.3	16.3	13.2	24.9	22.1	23.4	19.5
8	---	---	23.7	19.7	25.3	22.9	17.3	14.5	24.9	22.5	21.9	19.6
9	---	---	21.1	20.0	26.6	23.3	19.1	15.6	26.2	24.1	22.3	19.1
10	---	---	24.1	20.7	25.7	23.3	18.4	15.7	24.1	22.1	23.4	20.8
11	---	---	24.9	21.1	24.1	22.9	16.7	12.8	24.8	21.8	23.4	20.1
12	---	---	25.3	22.2	24.1	22.5	17.0	13.7	24.1	22.2	23.4	19.5
13	---	---	24.9	22.2	23.7	22.9	17.8	13.5	23.7	19.7	23.4	20.5
14	---	---	24.5	22.2	23.5	21.1	18.8	16.7	20.4	14.7	22.7	21.5
15	---	---	24.9	22.2	21.5	18.4	19.1	17.8	19.4	15.5	22.1	20.5
16	---	---	24.9	23.1	20.4	18.4	21.0	18.1	20.4	17.5	21.6	17.0
17	---	---	25.8	23.7	19.4	16.5	21.2	19.7	20.7	19.1	23.0	19.5
18	27.1	24.9	25.6	23.7	18.8	15.3	21.7	20.1	21.8	19.4	23.6	20.5
19	26.7	24.9	26.2	24.1	19.4	17.5	22.2	20.7	22.9	20.7	24.2	21.1
20	28.0	24.6	27.0	24.9	20.7	18.8	22.9	20.9	22.9	20.4	24.7	21.5
21	28.0	26.2	26.6	25.3	22.2	20.1	22.5	21.4	21.4	19.1	24.7	21.9
22	27.0	23.7	26.6	24.5	23.7	21.1	23.5	21.1	19.7	16.9	25.1	21.8
23	24.7	19.7	27.1	24.1	23.7	21.8	23.3	22.2	18.1	15.8	24.7	21.5
24	24.1	21.4	27.4	24.9	24.1	22.2	23.3	21.1	18.1	15.5	24.2	21.9
25	24.5	21.4	26.3	24.1	25.3	22.2	22.6	20.0	19.1	15.8	24.2	21.9
26	24.1	22.2	26.7	24.1	23.7	21.8	22.5	19.4	20.4	16.9	24.2	22.4
27	24.8	22.7	25.8	24.1	23.3	20.4	22.2	20.0	20.1	19.1	25.5	21.9
28	24.5	22.9	24.9	23.3	22.2	21.1	22.5	20.3	21.4	19.1	25.1	20.1
29	24.9	23.3	24.9	22.1	22.1	20.7	22.9	20.3	---	---	26.4	22.7
30	26.2	23.3	24.1	21.8	21.8	19.7	23.3	20.7	---	---	25.1	23.4
31	25.3	21.6	---	---	20.7	17.8	22.9	21.5	---	---	24.8	22.3
MONTH	---	---	27.4	18.2	26.6	15.3	23.5	11.4	26.2	14.7	26.4	17.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.5	23.0	26.4	23.7	30.1	26.8	29.3	26.4	33.9	31.4	32.6	30.0
2	26.8	24.2	24.7	22.6	29.3	27.3	29.3	26.4	33.5	31.2	32.0	29.6
3	27.3	25.1	25.5	23.1	30.3	27.3	27.8	25.5	31.5	30.3	33.2	29.8
4	28.3	25.5	26.0	23.4	31.5	27.3	28.8	26.4	31.5	29.8	31.5	30.1
5	28.8	26.4	26.8	24.2	32.0	27.8	30.3	26.8	31.4	29.7	31.8	30.3
6	29.3	26.8	27.8	25.5	29.8	27.3	31.5	27.8	30.7	29.3	30.9	29.3
7	29.3	26.8	28.3	26.8	29.6	27.4	32.5	28.3	32.0	29.3	30.3	28.8
8	29.3	25.9	28.8	26.8	27.8	26.4	31.4	28.8	33.2	30.3	29.3	28.2
9	27.7	26.1	28.8	26.8	27.8	25.9	31.5	28.8	31.9	30.9	29.3	27.4
10	28.6	26.3	29.2	26.4	30.3	25.9	31.5	28.8	32.0	30.3	30.7	27.8
11	28.8	26.8	28.8	26.4	30.9	27.8	---	---	32.0	30.3	31.5	28.7
12	29.3	26.8	27.8	26.3	30.3	27.8	---	---	31.4	29.8	31.5	28.8
13	28.3	25.1	28.8	26.4	30.9	28.3	---	---	33.9	30.3	30.6	28.8
14	27.8	25.1	28.8	26.8	32.0	28.8	---	---	33.2	30.9	30.2	27.8
15	26.8	25.9	29.3	27.4	32.0	29.5	---	---	33.2	30.9	29.3	27.8
16	27.8	26.4	28.8	26.2	31.5	29.5	---	---	33.2	30.5	31.4	28.3
17	26.8	22.3	28.8	26.7	29.8	28.3	---	---	31.5	28.8	32.0	28.8
18	24.6	21.9	28.8	26.4	28.3	25.9	---	---	31.5	28.9	30.9	28.8
19	24.2	21.9	29.5	26.8	28.6	25.5	---	---	30.9	28.8	29.1	27.3
20	25.5	21.9	29.8	26.8	27.3	25.5	---	---	29.3	28.8	28.3	26.9
21	25.9	22.3	30.3	26.8	29.3	25.9	34.2	31.4	29.8	28.2	27.8	26.4
22	25.5	22.3	29.3	26.4	30.9	26.8	33.2	29.8	30.3	27.8	28.3	26.4
23	27.8	23.4	29.8	26.4	30.9	27.3	32.0	29.3	30.3	27.8	27.8	25.5
24	28.8	25.5	29.3	26.9	30.9	26.8	32.6	30.3	32.0	27.8	27.3	25.9
25	28.8	26.3	30.3	27.3	30.3	27.8	32.6	30.6	31.5	28.8	27.3	25.9
26	29.3	26.8	30.9	27.8	29.8	27.3	33.2	30.9	31.5	28.8	26.8	25.7
27	29.8	27.3	30.9	28.3	29.8	26.8	33.2	31.3	33.2	29.3	27.3	25.9
28	29.8	27.8	30.3	28.4	28.7	26.8	33.9	31.4	32.0	29.3	28.8	26.5
29	29.8	27.3	31.5	28.3	28.8	26.8	33.2	31.4	32.0	29.8	30.3	27.3
30	28.8	25.9	30.3	27.8	28.8	26.4	32.3	31.4	33.2	30.4	30.9	28.3
31	---	---	29.8	27.3	---	---	32.6	31.3	33.1	30.9	---	---
MONTH	29.8	21.9	31.5	22.6	32.0	25.5	---	---	33.9	27.8	33.2	25.5

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 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	24.1	25.1	22.8	21.3	19.0	24.3	22.0	23.8	19.9
2	---	---	26.4	24.3	24.9	22.8	22.0	20.1	24.3	22.8	23.2	20.3
3	---	---	25.5	24.7	25.1	23.1	21.7	20.8	24.8	22.8	22.4	20.3
4	---	---	25.1	22.8	25.1	23.5	21.3	17.7	25.5	23.1	21.7	18.1
5	---	---	23.1	21.0	25.1	23.5	19.3	13.9	25.9	23.5	21.3	18.1
6	---	---	22.0	20.0	25.9	24.3	16.4	12.0	25.5	22.7	21.7	19.3
7	---	---	23.1	19.7	25.9	24.1	17.3	14.1	25.5	23.1	23.9	20.3
8	---	---	23.9	20.0	25.9	23.9	17.9	15.1	25.9	23.5	22.4	20.0
9	---	---	21.4	20.6	27.2	23.9	19.7	16.4	26.8	24.3	22.4	19.7
10	---	---	24.7	21.0	26.1	23.8	19.0	16.4	25.1	23.1	23.6	21.0
11	---	---	25.0	21.7	24.7	23.5	17.3	13.4	25.1	22.7	23.2	20.6
12	---	---	25.9	22.5	24.7	23.1	17.6	14.4	24.7	22.9	23.6	20.0
13	---	---	25.5	22.8	24.3	23.5	18.4	16.1	24.3	20.6	23.5	21.0
14	---	---	24.6	22.8	24.0	22.0	19.3	17.3	21.3	14.0	23.2	22.0
15	---	---	25.1	22.8	22.0	19.1	19.7	18.4	20.1	16.4	22.7	21.0
16	---	---	25.3	23.5	21.0	19.4	21.3	18.7	21.0	18.4	22.0	17.5
17	---	---	25.9	24.3	20.0	17.5	22.0	20.3	21.4	19.7	23.2	20.0
18	27.7	25.5	25.9	24.3	19.7	16.7	22.4	21.0	22.8	20.0	23.9	21.0
19	27.2	25.1	26.8	24.7	19.7	18.4	23.1	21.3	23.5	21.3	24.7	21.7
20	28.6	25.5	27.7	25.5	21.3	19.4	23.9	21.7	23.8	21.0	24.9	22.4
21	28.6	26.8	27.7	25.5	22.8	20.7	23.4	22.0	22.0	19.7	24.7	23.5
22	27.3	24.3	27.2	25.1	24.3	21.7	24.3	21.7	20.7	17.5	25.2	22.4
23	25.1	19.4	27.7	24.7	24.3	22.4	23.9	22.8	18.8	16.5	23.9	21.7
24	24.7	21.7	27.7	25.5	24.7	22.8	23.9	21.7	19.0	16.4	23.9	22.3
25	25.9	22.0	26.8	24.7	25.9	22.8	23.1	20.6	19.9	16.6	24.3	22.4
26	25.9	22.8	27.2	24.7	24.7	22.5	23.1	20.0	21.2	17.4	24.7	22.8
27	25.9	23.1	26.3	24.5	23.9	21.0	22.8	20.6	20.9	19.9	25.6	22.2
28	25.9	23.5	25.5	24.3	22.8	21.7	23.1	20.9	22.3	19.8	25.3	20.6
29	25.9	23.9	25.3	22.7	22.4	21.3	23.5	21.0	---	---	26.4	23.2
30	25.9	24.2	24.7	22.4	22.4	21.0	23.5	21.3	---	---	25.6	23.9
31	25.5	23.9	---	---	21.3	18.4	23.5	22.0	---	---	26.3	22.8
MONTH	---	---	27.7	19.7	27.2	16.7	24.3	12.0	26.8	14.0	26.4	17.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.0	23.5	27.3	23.9	30.3	27.3	29.3	26.9	34.4	31.9	33.1	30.8
2	27.3	24.7	25.2	23.2	29.8	27.8	28.4	26.9	33.7	31.9	32.5	30.3
3	27.8	25.6	26.0	23.9	30.8	27.8	28.3	26.0	32.0	30.8	33.1	30.3
4	28.3	25.9	26.5	23.9	32.0	27.8	29.3	26.9	32.0	30.3	32.0	30.8
5	29.3	26.4	27.3	24.7	32.0	28.3	30.8	27.3	31.9	30.2	32.4	30.8
6	29.8	27.3	28.3	26.0	30.3	27.8	31.9	28.3	31.3	29.8	31.4	29.8
7	29.8	27.3	28.8	27.3	29.8	27.8	32.5	28.8	32.5	29.8	30.8	29.3
8	28.6	26.4	29.3	27.3	28.3	26.9	31.8	29.3	33.7	30.8	29.8	28.7
9	27.8	26.7	29.3	27.3	28.2	26.0	31.9	29.3	32.4	31.4	29.8	28.1
10	28.8	26.7	29.3	26.9	30.3	26.9	32.0	29.3	32.5	30.8	31.3	28.3
11	28.8	26.9	29.3	26.6	31.4	28.3	---	---	32.5	30.8	32.0	29.3
12	29.8	27.3	28.3	26.8	30.8	28.6	---	---	31.9	30.3	32.0	29.3
13	28.8	25.6	29.3	26.9	31.4	28.8	---	---	34.4	30.8	31.3	29.3
14	28.3	25.6	29.3	27.3	32.0	29.3	---	---	33.7	31.4	30.8	28.3
15	27.3	26.4	29.8	27.8	32.5	30.0	---	---	33.1	31.4	29.8	28.3
16	28.3	26.9	29.3	26.4	32.0	30.3	---	---	33.4	31.3	32.0	28.8
17	27.3	22.8	29.3	26.9	30.3	28.6	---	---	32.2	29.3	32.5	29.3
18	25.2	22.4	29.3	26.9	28.6	26.4	---	---	31.9	29.8	31.4	29.3
19	24.7	22.8	29.5	27.3	28.8	25.9	---	---	30.9	29.3	29.8	28.8
20	26.0	22.1	29.3	27.3	27.5	26.0	---	---	29.8	29.3	29.1	27.8
21	26.5	22.8	29.3	27.3	29.3	26.2	34.4	31.9	30.3	28.7	28.3	26.9
22	25.6	22.4	29.8	26.8	31.4	27.3	33.1	30.4	30.8	28.3	28.8	26.9
23	28.3	24.7	29.8	26.9	31.3	27.8	32.5	29.8	30.8	28.3	28.3	26.0
24	29.3	26.0	29.8	27.3	31.2	27.3	33.1	30.8	32.0	28.3	27.8	26.5
25	29.3	26.7	30.8	27.8	30.3	28.3	33.1	31.0	31.6	29.3	27.8	26.4
26	29.6	27.3	31.4	28.3	29.8	27.8	33.7	31.4	32.0	29.3	27.3	26.4
27	29.8	27.8	31.4	28.8	30.3	27.3	33.7	31.7	33.7	29.8	27.8	26.6
28	30.3	28.3	30.8	28.8	29.0	27.3	34.4	31.9	32.6	29.8	29.3	27.3
29	30.3	27.8	31.4	28.8	28.8	27.0	33.7	31.9	32.5	30.4	30.3	27.8
30	29.3	26.4	30.7	28.3	29.3	26.9	32.9	31.9	33.7	31.1	30.9	28.8
31	---	---	30.3	27.8	---	---	33.1	31.9	33.1	31.4	---	---
MONTH	30.3	22.1	31.4	23.2	32.5	25.9	---	---	34.4	28.3	33.1	26.0

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1996 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

FIELD DETERMINATIONS

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT										
28...	1251	.30	3.55	--	4420	8.1	25.0	2770	.90	7.8
28...	1252	.50	--	--	4470	8.1	24.9	--	--	7.6
28...	1253	1.0	--	--	4960	8.0	24.6	--	--	7.2
28...	1254	1.5	--	--	5390	8.0	24.6	--	--	7.1
28...	1255	2.0	--	--	5660	8.0	24.5	--	--	7.1
28...	1256	2.5	--	--	6080	8.1	24.5	--	--	7.3
28...	1257	3.0	--	--	7700	8.2	24.5	--	--	6.9
28...	1258	3.4	--	--	10600	8.3	24.5	--	--	6.6
28...	1310	--	--	--	--	--	--	--	--	--
28...	1330	.30	3.55	--	--	--	--	--	--	--
28...	1345	3.2	3.55	--	--	--	--	--	--	--
29...	1110	.30	3.45	50.0	6430	8.5	24.8	--	--	9.1
29...	1111	.50	--	50.0	9560	8.5	24.5	--	--	9.0
29...	1112	1.0	--	50.0	12500	8.4	24.5	--	--	8.2
29...	1113	1.5	--	50.0	16000	8.3	24.6	--	--	7.6
29...	1114	2.0	--	50.0	17800	8.3	24.6	--	--	7.4
29...	1115	2.5	--	50.0	18000	8.3	24.5	--	--	7.3
29...	1116	3.0	--	50.0	18700	8.2	24.5	--	--	7.0
29...	1117	3.3	--	50.0	19100	8.2	24.5	--	--	6.8
29...	1120	.30	3.15	650	6680	8.6	25.1	--	--	9.8
29...	1121	.50	--	650	6780	8.6	25.1	--	--	9.8
29...	1122	1.0	--	650	9420	8.4	24.5	--	--	8.4
29...	1123	1.5	--	650	15100	8.3	24.6	--	--	7.9
29...	1124	2.0	--	650	17200	8.3	24.7	--	--	7.6
29...	1125	2.5	--	650	17900	8.3	24.7	--	--	7.3
29...	1126	3.0	--	650	18900	8.2	24.6	--	--	6.8
29...	1127	.30	1.45	1250	4080	8.6	24.7	--	--	9.7
29...	1128	.50	--	1250	5500	8.6	24.7	--	--	9.4
29...	1129	1.0	--	1250	6500	8.4	24.7	--	--	9.1
29...	1130	1.3	--	1250	8540	8.4	24.6	--	--	8.3
NOV										
17...	1251	.30	3.95	--	633	7.0	25.5	2900	1.1	6.2
17...	1252	.50	--	--	644	7.1	25.2	--	--	6.1
17...	1253	1.0	--	--	757	7.1	25.0	--	--	5.9
17...	1254	1.5	--	--	839	7.1	24.8	--	--	5.9
17...	1255	2.0	--	--	869	7.1	24.7	--	--	5.8
17...	1256	2.5	--	--	858	7.1	24.7	--	--	5.8
17...	1257	3.0	--	--	868	7.1	24.6	--	--	5.8
17...	1258	3.5	--	--	872	7.1	24.6	--	--	5.8
17...	1300	.30	3.95	--	--	--	--	--	--	--
17...	1320	3.7	3.95	--	--	--	--	--	--	--
18...	1057	.30	3.45	50.0	414	7.3	24.7	--	--	6.1
18...	1058	.50	--	50.0	370	7.2	24.1	--	--	5.6
18...	1059	1.0	--	50.0	357	7.2	23.9	--	--	5.4
18...	1100	1.5	--	50.0	353	7.2	23.9	--	--	5.3
18...	1101	2.0	--	50.0	356	7.2	23.9	--	--	5.3
18...	1102	2.5	--	50.0	351	7.2	23.9	--	--	5.3
18...	1103	3.0	--	50.0	352	7.1	23.9	--	--	5.3
18...	1104	.30	3.05	650	344	7.2	24.8	--	--	5.5
18...	1105	.50	--	650	343	7.2	24.6	--	--	5.5
18...	1106	1.0	--	650	329	7.1	24.0	--	--	5.3
18...	1107	1.5	--	650	331	7.1	24.0	--	--	5.2
18...	1108	2.0	--	650	336	7.1	23.9	--	--	5.2
18...	1109	2.5	--	650	362	7.1	23.9	--	--	5.2
18...	1110	2.9	--	650	618	7.1	24.0	--	--	5.3
18...	1111	.30	.95	1250	386	7.2	24.7	--	--	5.6
18...	1112	.50	--	1250	405	7.2	24.7	--	--	5.6
18...	1113	.80	--	1250	412	7.2	24.7	--	--	5.6

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DISSOLVED (MG/L) (00300)
DEC										
28...	1400	.30	3.65	--	18600	8.8	22.5	310	.70	14.1
28...	1401	.50	--	--	17600	8.7	22.2	--	--	13.2
28...	1402	1.0	--	--	15900	8.4	22.1	--	--	11.0
28...	1403	1.5	--	--	17500	7.9	21.9	--	--	7.4
28...	1404	2.0	--	--	18200	7.9	21.9	--	--	7.1
28...	1405	2.5	--	--	18400	7.9	21.8	--	--	7.0
28...	1406	3.0	--	--	19300	7.9	21.8	--	--	6.7
28...	1409	3.5	--	--	19200	7.860	21.8	--	--	6.6
28...	1410	.30	3.65	--	--	--	--	--	--	--
28...	1430	3.3	3.65	--	--	--	--	--	--	--
29...	1045	.30	2.25	50.0	14400	7.7	21.8	--	--	6.8
29...	1046	.50	--	50.0	15300	7.8	21.7	--	--	6.7
29...	1047	1.0	--	50.0	16600	7.7	21.7	--	--	5.6
29...	1048	1.5	--	50.0	17900	7.6	21.8	--	--	5.3
29...	1049	2.0	--	50.0	18000	7.6	21.7	--	--	5.3
29...	1051	.30	3.05	650	15800	8.1	21.9	--	--	8.9
29...	1052	.50	--	650	15900	8.1	21.8	--	--	8.7
29...	1053	1.0	--	650	16900	8.0	21.7	--	--	7.7
29...	1054	1.5	--	650	18400	7.8	21.7	--	--	6.8
29...	1055	2.0	--	650	18300	7.8	21.7	--	--	6.7
29...	1056	2.5	--	650	19600	7.8	21.7	--	--	6.5
29...	1057	2.9	--	650	18900	7.8	21.7	--	--	6.4
29...	1059	.30	1.55	1250	16100	8.3	22.0	--	--	9.9
29...	1100	.50	--	1250	17200	8.2	22.0	--	--	9.6
29...	1101	1.0	--	1250	16200	8.2	21.9	--	--	9.2
29...	1102	1.4	--	1250	18400	8.1	21.9	--	--	8.6
JAN										
25...	1325	.30	2.95	--	3110	7.7	22.1	2480	2.2	7.2
25...	1326	.50	--	--	3110	7.7	22.1	--	--	7.1
25...	1327	1.0	--	--	4010	7.6	21.9	--	--	6.6
25...	1328	1.5	--	--	8460	7.4	21.7	--	--	5.7
25...	1329	2.0	--	--	10700	7.4	22.3	--	--	5.3
25...	1330	2.5	--	--	11000	7.4	22.3	--	--	5.2
25...	1331	2.8	--	--	11300	7.4	22.4	--	--	4.7
25...	1340	.30	2.95	--	--	--	--	--	--	--
25...	1400	2.7	2.95	--	--	--	--	--	--	--
25...	1401	2.7	2.95	--	--	--	--	--	--	--
26...	1117	.30	2.95	50.0	6780	7.5	21.3	--	--	6.2
26...	1118	.50	--	50.0	6930	7.5	21.2	--	--	6.2
26...	1119	1.0	--	50.0	8300	7.5	21.0	--	--	5.8
26...	1120	1.5	--	50.0	8770	7.4	20.9	--	--	5.7
26...	1121	2.0	--	50.0	9520	7.4	21.1	--	--	5.5
26...	1122	2.5	--	50.0	9890	7.4	21.1	--	--	5.3
26...	1123	2.8	--	50.0	10200	7.4	21.2	--	--	5.1
26...	1124	.30	3.45	650	6540	7.7	21.1	--	--	7.2
26...	1125	.50	--	650	6590	7.7	21.1	--	--	7.2
26...	1126	1.0	--	650	6920	7.7	21.1	--	--	7.2
26...	1127	1.5	--	650	7210	7.7	21.2	--	--	7.3
26...	1128	2.0	--	650	10100	7.4	21.3	--	--	5.7
26...	1129	2.5	--	650	12100	7.3	21.5	--	--	5.1
26...	1130	3.0	--	650	13600	7.3	21.6	--	--	4.9
26...	1131	3.3	--	650	13800	7.3	21.5	--	--	4.9
26...	1137	.30	1.25	1250	5680	7.7	21.5	--	--	7.7
26...	1138	.50	--	1250	5620	7.7	21.4	--	--	7.7
26...	1139	1.0	--	1250	5870	7.7	21.4	--	--	7.6

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS-SOLVED (MG/L) (00300)
FEB										
22...	1316	.30	3.25	--	6700	7.6	19.4	2540	2.1	7.3
22...	1317	.50	--	--	6720	7.5	19.4	--	--	7.3
22...	1318	1.0	--	--	6720	7.5	19.3	--	--	7.2
22...	1319	1.5	--	--	6880	7.5	19.3	--	--	7.1
22...	1320	2.0	--	--	7320	7.5	19.2	--	--	6.9
22...	1321	2.5	--	--	7990	7.5	19.1	--	--	6.9
22...	1322	3.0	--	--	12200	7.4	19.9	--	--	5.6
22...	1323	3.1	--	--	12700	7.4	20.0	--	--	5.5
22...	1330	.30	3.25	--	--	--	--	--	--	--
22...	1335	--	--	--	--	--	--	--	--	--
22...	1410	3.0	3.25	--	--	--	--	--	--	--
23...	1033	.30	3.45	50	12600	7.8	17.3	--	--	8.1
23...	1034	.50	--	50	12500	7.8	17.4	--	--	8.1
23...	1035	1.0	--	50	14200	7.7	18.3	--	--	7.0
23...	1036	1.5	--	50	15600	7.7	18.0	--	--	7.2
23...	1037	2.0	--	50	15800	7.7	17.8	--	--	7.3
23...	1038	2.5	--	50	16000	7.7	17.8	--	--	7.3
23...	1039	3.0	--	50	15900	7.8	17.7	--	--	7.3
23...	1040	3.3	--	50	16200	7.8	17.7	--	--	7.3
23...	1041	.30	3.15	650	12900	7.9	17.7	--	--	8.2
23...	1042	.50	--	650	12800	7.9	17.7	--	--	8.2
23...	1043	1.0	--	650	13400	7.8	17.6	--	--	8.1
23...	1044	1.5	--	650	14400	7.8	17.0	--	--	8.1
23...	1045	2.0	--	650	14700	7.8	17.2	--	--	8.1
23...	1046	2.5	--	650	16700	7.8	17.5	--	--	7.5
23...	1047	3.0	--	650	16900	7.8	17.5	--	--	7.4
23...	1050	.30	1.25	1250	11300	7.8	18.4	--	--	7.9
23...	1051	.50	--	1250	12900	7.8	18.2	--	--	8.0
23...	1052	1.0	--	1250	15300	7.7	18.3	--	--	7.3
23...	1053	1.1	--	1250	16200	7.7	18.3	--	--	7.2
MAR										
22...	1310	.30	3.25	--	13800	7.7	23.6	2610	2.9	6.6
22...	1311	.50	--	--	13800	7.6	23.6	--	--	6.5
22...	1312	1.0	--	--	15900	7.6	23.1	--	--	6.7
22...	1313	1.5	--	--	17000	7.7	23.0	--	--	6.9
22...	1314	2.0	--	--	18000	7.6	22.9	--	--	6.6
22...	1315	2.5	--	--	21800	7.6	22.6	--	--	5.4
22...	1316	3.0	--	--	22400	7.5	22.6	--	--	5.3
22...	1317	3.1	--	--	22400	7.5	22.6	--	--	5.3
22...	1320	.30	3.25	--	--	--	--	--	--	--
22...	1350	3.0	3.25	--	--	--	--	--	--	--
22...	1410	3.0	3.25	--	--	--	--	--	--	--
23...	1034	.30	3.45	50.0	20000	7.5	22.5	--	--	6.1
23...	1035	.50	--	50.0	20000	7.5	22.5	--	--	6.0
23...	1036	1.0	--	50.0	20000	7.5	22.4	--	--	5.9
23...	1037	1.5	--	50.0	20600	7.5	22.0	--	--	5.9
23...	1038	2.0	--	50.0	20700	7.5	22.0	--	--	5.9
23...	1039	2.5	--	50.0	20800	7.5	21.9	--	--	5.8
23...	1040	3.0	--	50.0	21000	7.5	21.9	--	--	5.8
23...	1041	3.3	--	50.0	21100	7.5	21.9	--	--	5.8
23...	1042	.30	3.45	650	19400	7.6	22.2	--	--	6.5
23...	1043	.50	--	650	19500	7.6	22.2	--	--	6.5
23...	1044	1.0	--	650	19400	7.6	22.2	--	--	6.4
23...	1045	1.5	--	650	19600	7.6	22.2	--	--	6.4
23...	1046	2.0	--	650	19600	7.6	22.2	--	--	5.9
23...	1047	2.5	--	650	21200	7.5	21.8	--	--	5.8
23...	1048	3.0	--	650	21400	7.5	21.7	--	--	5.8
23...	1049	3.3	--	650	21400	7.5	21.7	--	--	5.8
23...	1053	.30	1.15	1250	18700	7.6	22.9	--	--	6.7
23...	1054	.50	--	1250	18800	7.6	22.9	--	--	6.5
23...	1055	1.0	--	1250	19100	7.5	22.5	--	--	6.0

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCI-DENT PERCENT REMAIN-ING AT DEPTH (00031)	OXYGEN, DIS-SOLVED (MG/L) (00300)
APR											
19...	1140	.30	3.55	--	21300	7.5	23.6	2620	--	--	6.2
19...	1141	.50	--	--	21200	7.5	23.6	--	--	--	6.1
19...	1142	1.0	--	--	21600	7.5	23.4	--	--	--	6.0
19...	1143	1.5	--	--	22900	7.5	23.0	--	--	--	5.6
19...	1144	2.0	--	--	23900	7.5	22.9	--	--	--	5.5
19...	1145	2.5	--	--	24500	7.5	22.8	--	--	--	5.5
19...	1146	3.0	--	--	25400	7.5	22.7	--	--	--	5.5
19...	1147	3.4	--	--	25400	7.5	22.7	--	--	1.5	5.4
19...	1200	--	--	--	--	--	--	--	--	--	--
19...	1210	.30	3.55	--	--	--	--	--	--	--	--
19...	1230	3.2	3.55	--	--	--	--	--	--	--	--
20...	0935	.30	1.15	1250	23200	7.6	22.3	--	--	--	6.6
20...	0936	.50	--	1250	23500	7.6	22.2	--	--	--	6.6
20...	0937	1.0	--	1250	24000	7.6	22.5	--	--	--	6.4
20...	0942	.30	2.55	650	23700	7.6	22.1	--	--	--	6.4
20...	0943	.50	--	650	23800	7.6	22.0	--	--	--	6.4
20...	0944	1.0	--	650	24100	7.6	22.0	--	--	--	6.4
20...	0945	1.5	--	650	24300	7.6	22.0	--	--	--	6.4
20...	0946	2.0	--	650	25000	7.6	22.3	--	--	--	6.0
20...	0947	2.4	--	650	25600	7.6	22.2	--	--	--	5.9
20...	0950	.30	3.85	50.0	24200	7.6	22.7	--	--	--	6.1
20...	0951	.50	--	50.0	24200	7.6	22.7	--	--	--	6.1
20...	0952	1.0	--	50.0	25200	7.6	22.3	--	--	--	6.0
20...	0953	1.5	--	50.0	25500	7.6	22.1	--	--	--	6.0
20...	0954	2.0	--	50.0	25500	7.6	22.1	--	--	--	6.0
20...	0955	2.5	--	50.0	25600	7.6	22.1	--	--	--	6.0
20...	0956	3.0	--	50.0	25800	7.6	22.0	--	--	--	5.9
20...	0957	3.5	--	50.0	25900	7.6	22.0	--	--	--	5.9
MAY											
25...	1214	.30	3.65	--	25200	7.6	28.7	2780	3.0	--	6.0
25...	1215	.50	--	--	26100	7.6	28.7	--	--	--	6.0
25...	1216	1.0	--	--	26500	7.6	28.7	--	--	--	5.9
25...	1217	1.5	--	--	26500	7.6	28.6	--	--	--	5.9
25...	1218	2.0	--	--	26600	7.6	28.6	--	--	--	5.9
25...	1219	2.5	--	--	26800	7.6	28.6	--	--	--	5.8
25...	1220	3.0	--	--	27000	7.6	28.6	--	--	--	5.8
25...	1221	3.5	--	--	26600	7.6	28.6	--	--	--	5.8
25...	1230	.30	3.65	--	--	--	--	--	--	--	--
25...	1245	3.3	3.65	--	--	--	--	--	--	--	--
26...	0944	.30	2.65	50.0	16700	7.7	29.0	--	--	--	6.5
26...	0945	.50	--	50.0	17500	7.7	28.5	--	--	--	6.3
26...	0946	1.0	--	50.0	19000	7.6	28.5	--	--	--	5.2
26...	0947	1.5	--	50.0	19500	7.5	28.5	--	--	--	5.1
26...	0948	2.0	--	50.0	19400	7.5	28.5	--	--	--	5.1
26...	0949	2.5	--	50.0	19500	7.5	28.6	--	--	--	5.0
26...	0950	.30	3.65	650	19300	7.7	28.7	--	--	--	6.3
26...	0951	.50	--	650	19300	7.7	28.7	--	--	--	6.2
26...	0952	1.0	--	650	20300	7.7	28.6	--	--	--	5.9
26...	0953	1.5	--	650	21100	7.6	28.6	--	--	--	5.6
26...	0954	2.0	--	650	21500	7.6	28.6	--	--	--	5.6
26...	0955	2.5	--	650	21600	7.6	28.6	--	--	--	5.5
26...	0956	3.0	--	650	21800	7.6	28.6	--	--	--	5.4
26...	0957	3.5	--	650	21600	7.6	28.5	--	--	--	5.4
26...	1000	.30	1.25	1250	20900	7.6	28.7	--	--	--	5.4
26...	1001	.50	--	1250	21500	7.6	28.7	--	--	--	5.4
26...	1002	1.0	--	1250	21300	7.6	28.6	--	--	--	5.3

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DISSOLVED (MG/L) (00300)
JUN										
22...	1210	.30	3.85	--	1460	7.1	29.5	3680	1.5	3.5
22...	1211	.50	--	--	1650	7.1	28.5	--	--	2.9
22...	1212	1.0	--	--	2330	7.0	27.4	--	--	2.7
22...	1213	1.5	--	--	4340	6.9	27.1	--	--	2.6
22...	1214	2.0	--	--	7690	6.9	27.0	--	--	2.3
22...	1215	.30	3.85	--	--	--	--	--	--	--
22...	1216	2.5	--	--	11800	6.8	27.1	--	--	2.2
22...	1217	3.0	--	--	15800	6.8	27.3	--	--	1.5
22...	1218	3.5	--	--	20300	6.8	27.5	--	--	1.2
22...	1240	3.5	3.85	--	--	--	--	--	--	--
23...	0930	.30	1.35	1250	1770	7.1	28.3	--	--	4.1
23...	0931	.50	--	1250	1690	7.1	28.2	--	--	4.1
23...	0932	1.0	--	1250	3930	7.0	28.0	--	--	3.8
23...	0933	1.2	--	1250	4420	7.0	28.0	--	--	3.7
23...	0934	.30	3.65	650	2210	7.1	28.2	--	--	4.4
23...	0935	.50	--	650	2220	7.1	28.2	--	--	4.4
23...	0936	1.0	--	650	2260	7.1	28.2	--	--	4.5
23...	0937	1.5	--	650	3990	7.0	28.0	--	--	4.0
23...	0938	2.0	--	650	4400	7.0	28.0	--	--	3.8
23...	0939	2.5	--	650	8620	6.9	28.0	--	--	3.1
23...	0940	3.0	--	650	16200	6.8	28.1	--	--	2.3
23...	0941	3.5	--	650	16600	6.9	28.1	--	--	2.2
23...	0942	.30	3.25	50.0	2220	7.1	28.2	--	--	4.2
23...	0943	.50	--	50.0	2270	7.1	28.1	--	--	4.2
23...	0944	1.0	--	50.0	4650	7.0	27.9	--	--	3.8
23...	0945	1.5	--	50.0	5230	7.0	27.9	--	--	3.5
23...	0946	2.0	--	50.0	6090	7.0	27.9	--	--	3.3
23...	0947	2.5	--	50.0	8330	6.9	28.0	--	--	3.0
23...	0948	3.0	--	50.0	10200	6.9	28.0	--	--	2.8
JUL										
27...	1142	.30	4.25	--	499	7.0	31.5	846	.68	4.5
27...	1143	.50	--	--	494	7.1	31.5	--	--	4.5
27...	1144	1.0	--	--	493	7.1	31.4	--	--	4.4
27...	1145	.30	4.25	--	--	--	--	--	--	--
27...	1146	1.5	--	--	482	7.1	31.4	--	--	4.4
27...	1147	2.0	--	--	488	7.1	31.4	--	--	4.4
27...	1148	2.5	--	--	477	7.1	31.4	--	--	4.4
27...	1149	3.0	--	--	496	7.1	31.4	--	--	4.4
27...	1150	3.5	--	--	503	7.1	31.4	--	--	4.4
27...	1151	4.0	--	--	480	7.1	31.4	--	--	4.4
27...	1215	4.0	4.25	--	--	--	--	--	--	--
28...	0950	.30	1.55	1250	437	7.7	31.6	--	--	3.9
28...	0951	.50	--	1250	441	7.6	31.4	--	--	3.8
28...	0952	1.0	--	1250	420	7.5	31.3	--	--	3.8
28...	0953	1.4	--	1250	443	7.5	31.3	--	--	3.8
28...	0954	.30	3.65	650	438	7.5	31.8	--	--	3.8
28...	0955	.50	--	650	438	7.4	31.4	--	--	3.6
28...	0956	1.0	--	650	428	7.4	31.2	--	--	3.5
28...	0957	1.5	--	650	416	7.4	31.2	--	--	3.5
28...	0958	2.0	--	650	411	7.3	31.2	--	--	3.5
28...	0959	2.5	--	650	420	7.3	31.2	--	--	3.5
28...	1000	3.0	--	650	438	7.3	31.1	--	--	3.5
28...	1001	3.5	--	650	425	7.2	31.1	--	--	3.5
28...	1002	.30	2.35	50.0	417	7.4	32.4	--	--	4.1
28...	1003	.50	--	50.0	432	7.3	32.2	--	--	3.9
28...	1004	1.0	--	50.0	448	7.3	31.3	--	--	3.6
28...	1005	1.5	--	50.0	453	7.2	31.3	--	--	3.5
28...	1006	2.0	--	50.0	449	7.2	31.2	--	--	3.5

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS-SOLVED (MG/L) (00300)
AUG										
23...	1215	.30	4.05	--	384	6.9	29.2	1710	.90	5.2
23...	1216	.50	--	--	382	6.9	28.8	--	--	5.2
23...	1217	1.0	--	--	372	7.0	28.4	--	--	5.2
23...	1218	1.5	--	--	377	7.0	28.5	--	--	5.2
23...	1219	2.0	--	--	370	7.0	28.4	--	--	5.2
23...	1220	2.5	--	--	370	7.0	28.3	--	--	5.2
23...	1221	3.0	--	--	372	7.0	28.3	--	--	5.1
23...	1222	3.5	--	--	372	7.0	28.3	--	--	5.1
23...	1223	3.9	--	--	369	7.0	28.3	--	--	5.1
23...	1230	.30	4.05	--	--	--	--	--	--	--
23...	1245	3.8	4.05	--	--	--	--	--	--	--
23...	1246	3.8	4.05	--	--	--	--	--	--	--
24...	0918	.30	3.15	50.0	317	7.0	28.4	--	--	5.0
24...	0919	.50	--	50.0	311	7.0	28.1	--	--	4.8
24...	0920	1.0	--	50.0	310	7.0	28.1	--	--	4.6
24...	0921	1.5	--	50.0	318	7.0	28.1	--	--	4.6
24...	0922	2.0	--	50.0	317	7.0	28.1	--	--	4.6
24...	0923	2.5	--	50.0	319	7.0	28.1	--	--	4.6
24...	0924	3.0	--	50.0	321	6.9	28.1	--	--	4.5
24...	0925	.30	2.95	650	317	7.0	28.4	--	--	4.9
24...	0926	.50	--	650	322	7.0	28.4	--	--	4.9
24...	0927	1.0	--	650	323	7.0	28.2	--	--	4.7
24...	0928	1.5	--	650	327	7.0	28.2	--	--	4.6
24...	0929	2.0	--	650	326	7.0	28.1	--	--	4.6
24...	0930	2.5	--	650	328	7.0	28.1	--	--	4.6
24...	0931	2.8	--	650	326	7.0	28.1	--	--	4.6
24...	0932	.30	1.45	1250	324	7.0	28.4	--	--	4.8
24...	0933	.50	--	1250	327	7.0	28.4	--	--	4.8
24...	0934	1.0	--	1250	327	7.0	28.4	--	--	4.8
24...	0935	1.3	--	1250	321	7.0	28.4	--	--	4.8
SEP										
23...	1142	.30	4.15	--	925	7.3	27.1	2200	1.3	4.7
23...	1143	.50	--	--	924	7.2	26.9	--	--	4.7
23...	1144	1.0	--	--	923	7.2	26.8	--	--	4.6
23...	1145	1.5	--	--	922	7.2	26.8	--	--	4.6
23...	1146	2.0	--	--	921	7.2	26.8	--	--	4.6
23...	1147	2.5	--	--	919	7.2	26.8	--	--	4.6
23...	1148	3.0	--	--	917	7.2	26.8	--	--	4.6
23...	1149	3.5	--	--	917	7.2	26.7	--	--	4.5
23...	1150	4.0	--	--	916	7.2	26.8	--	--	4.5
23...	1205	.30	4.15	--	--	--	--	--	--	--
23...	1220	.30	4.15	--	--	--	--	--	--	--
23...	1240	3.8	4.15	--	--	--	--	--	--	--
24...	1000	.30	2.55	50.0	449	7.1	27.0	--	--	4.6
24...	1001	.50	--	50.0	449	7.1	26.8	--	--	4.5
24...	1002	1.0	--	50.0	471	7.1	26.1	--	--	4.3
24...	1003	1.5	--	50.0	495	7.0	26.1	--	--	4.3
24...	1004	2.0	--	50.0	541	7.0	26.1	--	--	4.3
24...	1005	2.4	--	50.0	568	7.0	26.1	--	--	4.3
24...	1008	.30	3.55	650	394	7.1	26.5	--	--	4.3
24...	1009	.50	--	650	406	7.0	26.4	--	--	4.2
24...	1010	1.0	--	650	458	7.0	26.1	--	--	4.2
24...	1011	1.5	--	650	446	7.0	26.1	--	--	4.2
24...	1012	2.0	--	650	520	7.0	26.1	--	--	4.2
24...	1013	2.5	--	650	569	7.0	26.1	--	--	4.2
24...	1014	3.0	--	650	613	7.0	26.1	--	--	4.2
24...	1015	3.4	--	650	633	7.0	26.1	--	--	4.2
24...	1017	.30	1.45	1250	572	7.1	26.6	--	--	4.3
24...	1018	.50	--	1250	567	7.0	26.6	--	--	4.3
24...	1019	1.0	--	1250	571	7.0	26.5	--	--	4.3
24...	1020	1.3	--	1250	576	7.0	26.5	--	--	4.3

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

LABORATORY ANALYSES

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
OCT									
28...	1251	.30	3.55	--	--	--	--	--	--
28...	1252	.50	--	--	--	--	--	--	--
28...	1253	1.0	--	--	--	--	--	--	--
28...	1254	1.5	--	--	--	--	--	--	--
28...	1255	2.0	--	--	--	--	--	--	--
28...	1256	2.5	--	--	--	--	--	--	--
28...	1257	3.0	--	--	--	--	--	--	--
28...	1258	3.4	--	--	--	--	--	--	--
28...	1310	--	--	<5	.07	<.1	<.01	<1	<1
28...	1330	.30	3.55	200	8.9	990	5.9	19	9
28...	1345	3.2	3.55	200	20	2100	4.8	57	24
29...	1110	.30	3.45	--	--	--	--	--	--
29...	1111	.50	--	--	--	--	--	--	--
29...	1112	1.0	--	--	--	--	--	--	--
29...	1113	1.5	--	--	--	--	--	--	--
29...	1114	2.0	--	--	--	--	--	--	--
29...	1115	2.5	--	--	--	--	--	--	--
29...	1116	3.0	--	--	--	--	--	--	--
29...	1117	3.3	--	--	--	--	--	--	--
29...	1120	.30	3.15	--	--	--	--	--	--
29...	1121	.50	--	--	--	--	--	--	--
29...	1122	1.0	--	--	--	--	--	--	--
29...	1123	1.5	--	--	--	--	--	--	--
29...	1124	2.0	--	--	--	--	--	--	--
29...	1125	2.5	--	--	--	--	--	--	--
29...	1126	3.0	--	--	--	--	--	--	--
29...	1127	.30	1.45	--	--	--	--	--	--
29...	1128	.50	--	--	--	--	--	--	--
29...	1129	1.0	--	--	--	--	--	--	--
29...	1130	1.3	--	--	--	--	--	--	--
NOV									
17...	1251	.30	3.95	--	--	--	--	--	--
17...	1252	.50	--	--	--	--	--	--	--
17...	1253	1.0	--	--	--	--	--	--	--
17...	1254	1.5	--	--	--	--	--	--	--
17...	1255	2.0	--	--	--	--	--	--	--
17...	1256	2.5	--	--	--	--	--	--	--
17...	1257	3.0	--	--	--	--	--	--	--
17...	1258	3.5	--	--	--	--	--	--	--
17...	1300	.30	3.95	200	4.0	150	6.7	9	4
17...	1320	3.7	3.95	200	4.7	290	6.5	12	3
18...	1057	.30	3.45	--	--	--	--	--	--
18...	1058	.50	--	--	--	--	--	--	--
18...	1059	1.0	--	--	--	--	--	--	--
18...	1100	1.5	--	--	--	--	--	--	--
18...	1101	2.0	--	--	--	--	--	--	--
18...	1102	2.5	--	--	--	--	--	--	--
18...	1103	3.0	--	--	--	--	--	--	--
18...	1104	.30	3.05	--	--	--	--	--	--
18...	1105	.50	--	--	--	--	--	--	--
18...	1106	1.0	--	--	--	--	--	--	--
18...	1107	1.5	--	--	--	--	--	--	--
18...	1108	2.0	--	--	--	--	--	--	--
18...	1109	2.5	--	--	--	--	--	--	--
18...	1110	2.9	--	--	--	--	--	--	--
18...	1111	.30	.95	--	--	--	--	--	--
18...	1112	.50	--	--	--	--	--	--	--
18...	1113	.80	--	--	--	--	--	--	--

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, INORGANIC, TOTAL (MG/L AS C) (00685)
OCT									
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	<.01	<.02	<.01	<.20	<.02	<.01	.2	.2	.7
28...	<.01	.30	.04	1.2	.85	.66	18	17	20
28...	<.01	.18	.05	1.8	1.1	.58	16	16	22
NOV									
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	<.01	.41	.04	1.2	.66	.52	13	13	11
17...	<.01	.41	.05	1.1	.71	.53	14	13	11

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
DEC									
28...	1400	.30	3.65	--	--	--	--	--	--
28...	1401	.50	--	--	--	--	--	--	--
28...	1402	1.0	--	--	--	--	--	--	--
28...	1403	1.5	--	--	--	--	--	--	--
28...	1404	2.0	--	--	--	--	--	--	--
28...	1405	2.5	--	--	--	--	--	--	--
28...	1406	3.0	--	--	--	--	--	--	--
28...	1409	3.5	--	--	--	--	--	--	--
28...	1410	.30	3.65	140	24	4500	5.3	100	91
28...	1430	3.3	3.65	50	1.1	6100	4.7	30	19
29...	1045	.30	2.25	--	--	--	--	--	--
29...	1046	.50	--	--	--	--	--	--	--
29...	1047	1.0	--	--	--	--	--	--	--
29...	1048	1.5	--	--	--	--	--	--	--
29...	1049	2.0	--	--	--	--	--	--	--
29...	1051	.30	3.05	--	--	--	--	--	--
29...	1052	.50	--	--	--	--	--	--	--
29...	1053	1.0	--	--	--	--	--	--	--
29...	1054	1.5	--	--	--	--	--	--	--
29...	1055	2.0	--	--	--	--	--	--	--
29...	1056	2.5	--	--	--	--	--	--	--
29...	1057	2.9	--	--	--	--	--	--	--
29...	1059	.30	1.55	--	--	--	--	--	--
29...	1100	.50	--	--	--	--	--	--	--
29...	1101	1.0	--	--	--	--	--	--	--
29...	1102	1.4	--	--	--	--	--	--	--
JAN									
25...	1325	.30	2.95	--	--	--	--	--	--
25...	1326	.50	--	--	--	--	--	--	--
25...	1327	1.0	--	--	--	--	--	--	--
25...	1328	1.5	--	--	--	--	--	--	--
25...	1329	2.0	--	--	--	--	--	--	--
25...	1330	2.5	--	--	--	--	--	--	--
25...	1331	2.8	--	--	--	--	--	--	--
25...	1340	.30	2.95	70	1.4	740	3.9	7	3
25...	1400	2.7	2.95	60	.83	3100	4.1	14	6
25...	1401	2.7	2.95	60	.87	3000	4.2	12	6
26...	1117	.30	2.95	--	--	--	--	--	--
26...	1118	.50	--	--	--	--	--	--	--
26...	1119	1.0	--	--	--	--	--	--	--
26...	1120	1.5	--	--	--	--	--	--	--
26...	1121	2.0	--	--	--	--	--	--	--
26...	1122	2.5	--	--	--	--	--	--	--
26...	1123	2.8	--	--	--	--	--	--	--
26...	1124	.30	3.45	--	--	--	--	--	--
26...	1125	.50	--	--	--	--	--	--	--
26...	1126	1.0	--	--	--	--	--	--	--
26...	1127	1.5	--	--	--	--	--	--	--
26...	1128	2.0	--	--	--	--	--	--	--
26...	1129	2.5	--	--	--	--	--	--	--
26...	1130	3.0	--	--	--	--	--	--	--
26...	1131	3.3	--	--	--	--	--	--	--
26...	1137	.30	1.25	--	--	--	--	--	--
26...	1138	.50	--	--	--	--	--	--	--
26...	1139	1.0	--	--	--	--	--	--	--

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)
DEC									
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--
28...	.01	<.02	1.7	7.4	1.3	.84	12	9.7	20
28...	<.01	<.02	.20	1.7	.46	.37	9.5	8.9	25
JAN									
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	<.01	.39	.04	.63	.74	.64	11	10	20
25...	<.01	.23	.02	.66	.55	.47	11	9.6	20
25...	<.01	.22	.03	.60	.55	.47	10	9.9	20

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
FEB									
22...	1316	.30	3.25	--	--	--	--	--	--
22...	1317	.50	--	--	--	--	--	--	--
22...	1318	1.0	--	--	--	--	--	--	--
22...	1319	1.5	--	--	--	--	--	--	--
22...	1320	2.0	--	--	--	--	--	--	--
22...	1321	2.5	--	--	--	--	--	--	--
22...	1322	3.0	--	--	--	--	--	--	--
22...	1323	3.1	--	--	--	--	--	--	--
22...	1330	.30	3.25	100	2.1	1900	3.6	10	4
22...	1335	--	--	5	.06	.1	.05	<1	<1
22...	1410	3.0	3.25	100	1.9	2700	3.0	12	5
23...	1033	.30	3.45	--	--	--	--	--	--
23...	1034	.50	--	--	--	--	--	--	--
23...	1035	1.0	--	--	--	--	--	--	--
23...	1036	1.5	--	--	--	--	--	--	--
23...	1037	2.0	--	--	--	--	--	--	--
23...	1038	2.5	--	--	--	--	--	--	--
23...	1039	3.0	--	--	--	--	--	--	--
23...	1040	3.3	--	--	--	--	--	--	--
23...	1041	.30	3.15	--	--	--	--	--	--
23...	1042	.50	--	--	--	--	--	--	--
23...	1043	1.0	--	--	--	--	--	--	--
23...	1044	1.5	--	--	--	--	--	--	--
23...	1045	2.0	--	--	--	--	--	--	--
23...	1046	2.5	--	--	--	--	--	--	--
23...	1047	3.0	--	--	--	--	--	--	--
23...	1050	.30	1.25	--	--	--	--	--	--
23...	1051	.50	--	--	--	--	--	--	--
23...	1052	1.0	--	--	--	--	--	--	--
23...	1053	1.1	--	--	--	--	--	--	--
MAR									
22...	1310	.30	3.25	--	--	--	--	--	--
22...	1311	.50	--	--	--	--	--	--	--
22...	1312	1.0	--	--	--	--	--	--	--
22...	1313	1.5	--	--	--	--	--	--	--
22...	1314	2.0	--	--	--	--	--	--	--
22...	1315	2.5	--	--	--	--	--	--	--
22...	1316	3.0	--	--	--	--	--	--	--
22...	1317	3.1	--	--	--	--	--	--	--
22...	1320	.30	3.25	60	1.4	4100	1.6	14	6
22...	1350	3.0	3.25	40	1.1	6900	1.0	24	11
22...	1410	3.0	3.25	50	.52	6600	1.1	26	11
23...	1034	.30	3.45	--	--	--	--	--	--
23...	1035	.50	--	--	--	--	--	--	--
23...	1036	1.0	--	--	--	--	--	--	--
23...	1037	1.5	--	--	--	--	--	--	--
23...	1038	2.0	--	--	--	--	--	--	--
23...	1039	2.5	--	--	--	--	--	--	--
23...	1040	3.0	--	--	--	--	--	--	--
23...	1041	3.3	--	--	--	--	--	--	--
23...	1042	.30	3.45	--	--	--	--	--	--
23...	1043	.50	--	--	--	--	--	--	--
23...	1044	1.0	--	--	--	--	--	--	--
23...	1045	1.5	--	--	--	--	--	--	--
23...	1046	2.0	--	--	--	--	--	--	--
23...	1047	2.5	--	--	--	--	--	--	--
23...	1048	3.0	--	--	--	--	--	--	--
23...	1049	3.3	--	--	--	--	--	--	--
23...	1053	.30	1.15	--	--	--	--	--	--
23...	1054	.50	--	--	--	--	--	--	--
23...	1055	1.0	--	--	--	--	--	--	--

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, INORGANIC, TOTAL (MG/L AS C) (00685)
FEB									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	<.01	.30	.04	.93	.65	.56	14	13	19
22...	<.01	<.02	<.01	<.20	.02	.03	<.1	<.1	.6
22...	<.01	.24	.03	.82	.64	.53	12	12	20
MAR									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	.01	.14	.04	.63	.50	.47	10	10	21
22...	.01	.07	.10	.57	.41	.36	9.3	9.2	23
22...	<.01	.07	.10	.56	.44	.37	9.5	9.1	22

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
APR									
19...	1140	.30	3.55	--	--	--	--	--	--
19...	1141	.50	--	--	--	--	--	--	--
19...	1142	1.0	--	--	--	--	--	--	--
19...	1143	1.5	--	--	--	--	--	--	--
19...	1144	2.0	--	--	--	--	--	--	--
19...	1145	2.5	--	--	--	--	--	--	--
19...	1146	3.0	--	--	--	--	--	--	--
19...	1147	3.4	--	--	--	--	--	--	--
19...	1200	--	--	5	<.05	<.1	<.01	1	<1
19...	1210	.30	3.55	40	.33	6700	2.6	27	11
19...	1230	3.2	3.55	40	.37	8600	2.4	31	13
20...	0935	.30	1.15	--	--	--	--	--	--
20...	0936	.50	--	--	--	--	--	--	--
20...	0937	1.0	--	--	--	--	--	--	--
20...	0942	.30	2.55	--	--	--	--	--	--
20...	0943	.50	--	--	--	--	--	--	--
20...	0944	1.0	--	--	--	--	--	--	--
20...	0945	1.5	--	--	--	--	--	--	--
20...	0946	2.0	--	--	--	--	--	--	--
20...	0947	2.4	--	--	--	--	--	--	--
20...	0950	.30	3.85	--	--	--	--	--	--
20...	0951	.50	--	--	--	--	--	--	--
20...	0952	1.0	--	--	--	--	--	--	--
20...	0953	1.5	--	--	--	--	--	--	--
20...	0954	2.0	--	--	--	--	--	--	--
20...	0955	2.5	--	--	--	--	--	--	--
20...	0956	3.0	--	--	--	--	--	--	--
20...	0957	3.5	--	--	--	--	--	--	--
MAY									
25...	1214	.30	3.65	--	--	--	--	--	--
25...	1215	.50	--	--	--	--	--	--	--
25...	1216	1.0	--	--	--	--	--	--	--
25...	1217	1.5	--	--	--	--	--	--	--
25...	1218	2.0	--	--	--	--	--	--	--
25...	1219	2.5	--	--	--	--	--	--	--
25...	1220	3.0	--	--	--	--	--	--	--
25...	1221	3.5	--	--	--	--	--	--	--
25...	1230	.30	3.65	30	.32	8900	.8	33	15
25...	1245	3.3	3.65	40	.28	9000	.7	30	15
26...	0944	.30	2.65	--	--	--	--	--	--
26...	0945	.50	--	--	--	--	--	--	--
26...	0946	1.0	--	--	--	--	--	--	--
26...	0947	1.5	--	--	--	--	--	--	--
26...	0948	2.0	--	--	--	--	--	--	--
26...	0949	2.5	--	--	--	--	--	--	--
26...	0950	.30	3.65	--	--	--	--	--	--
26...	0951	.50	--	--	--	--	--	--	--
26...	0952	1.0	--	--	--	--	--	--	--
26...	0953	1.5	--	--	--	--	--	--	--
26...	0954	2.0	--	--	--	--	--	--	--
26...	0955	2.5	--	--	--	--	--	--	--
26...	0956	3.0	--	--	--	--	--	--	--
26...	0957	3.5	--	--	--	--	--	--	--
26...	1000	.30	1.25	--	--	--	--	--	--
26...	1001	.50	--	--	--	--	--	--	--
26...	1002	1.0	--	--	--	--	--	--	--

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, INORGANIC, TOTAL (MG/L AS C) (00685)
APR									
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	<.01	<.02	.01	<.20	<.02	.01	<.1	<.1	.7
19...	.01	.07	.09	.77	.53	.50	11	11	24
19...	.01	.04	.18	.72	.46	.42	10	10	26
MAY									
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	<.01	<.02	.04	.98	.46	.43	10	9.7	26
25...	<.01	<.02	.04	.82	.46	.42	10	10	26

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
JUN									
22...	1210	.30	3.85	--	--	--	--	--	--
22...	1211	.50	--	--	--	--	--	--	--
22...	1212	1.0	--	--	--	--	--	--	--
22...	1213	1.5	--	--	--	--	--	--	--
22...	1214	2.0	--	--	--	--	--	--	--
22...	1215	.30	3.85	160	1.3	390	6.2	3	3
22...	1216	2.5	--	--	--	--	--	--	--
22...	1217	3.0	--	--	--	--	--	--	--
22...	1218	3.5	--	--	--	--	--	--	--
22...	1240	3.5	3.85	120	.56	4700	4.8	18	10
23...	0930	.30	1.35	--	--	--	--	--	--
23...	0931	.50	--	--	--	--	--	--	--
23...	0932	1.0	--	--	--	--	--	--	--
23...	0933	1.2	--	--	--	--	--	--	--
23...	0934	.30	3.65	--	--	--	--	--	--
23...	0935	.50	--	--	--	--	--	--	--
23...	0936	1.0	--	--	--	--	--	--	--
23...	0937	1.5	--	--	--	--	--	--	--
23...	0938	2.0	--	--	--	--	--	--	--
23...	0939	2.5	--	--	--	--	--	--	--
23...	0940	3.0	--	--	--	--	--	--	--
23...	0941	3.5	--	--	--	--	--	--	--
23...	0942	.30	3.25	--	--	--	--	--	--
23...	0943	.50	--	--	--	--	--	--	--
23...	0944	1.0	--	--	--	--	--	--	--
23...	0945	1.5	--	--	--	--	--	--	--
23...	0946	2.0	--	--	--	--	--	--	--
23...	0947	2.5	--	--	--	--	--	--	--
23...	0948	3.0	--	--	--	--	--	--	--
JUL									
27...	1142	.30	4.25	--	--	--	--	--	--
27...	1143	.50	--	--	--	--	--	--	--
27...	1144	1.0	--	--	--	--	--	--	--
27...	1145	.30	4.25	200	3.0	86	7.7	5	3
27...	1146	1.5	--	--	--	--	--	--	--
27...	1147	2.0	--	--	--	--	--	--	--
27...	1148	2.5	--	--	--	--	--	--	--
27...	1149	3.0	--	--	--	--	--	--	--
27...	1150	3.5	--	--	--	--	--	--	--
27...	1151	4.0	--	--	--	--	--	--	--
27...	1215	4.0	4.25	240	2.5	94	7.5	4	1
28...	0950	.30	1.55	--	--	--	--	--	--
28...	0951	.50	--	--	--	--	--	--	--
28...	0952	1.0	--	--	--	--	--	--	--
28...	0953	1.4	--	--	--	--	--	--	--
28...	0954	.30	3.65	--	--	--	--	--	--
28...	0955	.50	--	--	--	--	--	--	--
28...	0956	1.0	--	--	--	--	--	--	--
28...	0957	1.5	--	--	--	--	--	--	--
28...	0958	2.0	--	--	--	--	--	--	--
28...	0959	2.5	--	--	--	--	--	--	--
28...	1000	3.0	--	--	--	--	--	--	--
28...	1001	3.5	--	--	--	--	--	--	--
28...	1002	.30	2.35	--	--	--	--	--	--
28...	1003	.50	--	--	--	--	--	--	--
28...	1004	1.0	--	--	--	--	--	--	--
28...	1005	1.5	--	--	--	--	--	--	--
28...	1006	2.0	--	--	--	--	--	--	--

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, INORGANIC, TOTAL (MG/L AS C) (00685)
JUN									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	.03	.92	.13	1.2	.48	.48	20	19	11
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	.03	.61	.26	1.9	.44	.43	15	14	17
JUL									
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	<.01	.32	.03	1.3	.52	.48	25	25	14
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	<.01	.30	.03	1.2	.50	.46	26	26	16

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
AUG									
23...	1215	.30	4.05	--	--	--	--	--	--
23...	1216	.50	--	--	--	--	--	--	--
23...	1217	1.0	--	--	--	--	--	--	--
23...	1218	1.5	--	--	--	--	--	--	--
23...	1219	2.0	--	--	--	--	--	--	--
23...	1220	2.5	--	--	--	--	--	--	--
23...	1221	3.0	--	--	--	--	--	--	--
23...	1222	3.5	--	--	--	--	--	--	--
23...	1223	3.9	--	--	--	--	--	--	--
23...	1230	.30	4.05	200	2.3	63	5.2	3	2
23...	1245	3.8	4.05	200	2.8	57	5.6	3	<1
23...	1246	3.8	4.05	200	3.0	58	5.6	4	2
24...	0918	.30	3.15	--	--	--	--	--	--
24...	0919	.50	--	--	--	--	--	--	--
24...	0920	1.0	--	--	--	--	--	--	--
24...	0921	1.5	--	--	--	--	--	--	--
24...	0922	2.0	--	--	--	--	--	--	--
24...	0923	2.5	--	--	--	--	--	--	--
24...	0924	3.0	--	--	--	--	--	--	--
24...	0925	.30	2.95	--	--	--	--	--	--
24...	0926	.50	--	--	--	--	--	--	--
24...	0927	1.0	--	--	--	--	--	--	--
24...	0928	1.5	--	--	--	--	--	--	--
24...	0929	2.0	--	--	--	--	--	--	--
24...	0930	2.5	--	--	--	--	--	--	--
24...	0931	2.8	--	--	--	--	--	--	--
24...	0932	.30	1.45	--	--	--	--	--	--
24...	0933	.50	--	--	--	--	--	--	--
24...	0934	1.0	--	--	--	--	--	--	--
24...	0935	1.3	--	--	--	--	--	--	--
SEP									
23...	1142	.30	4.15	--	--	--	--	--	--
23...	1143	.50	--	--	--	--	--	--	--
23...	1144	1.0	--	--	--	--	--	--	--
23...	1145	1.5	--	--	--	--	--	--	--
23...	1146	2.0	--	--	--	--	--	--	--
23...	1147	2.5	--	--	--	--	--	--	--
23...	1148	3.0	--	--	--	--	--	--	--
23...	1149	3.5	--	--	--	--	--	--	--
23...	1150	4.0	--	--	--	--	--	--	--
23...	1205	.30	4.15	160	3.3	210	7.7	6	3
23...	1220	.30	4.15	200	5.9	240	7.8	8	2
23...	1240	3.8	4.15	160	5.8	290	7.8	11	4
24...	1000	.30	2.55	--	--	--	--	--	--
24...	1001	.50	--	--	--	--	--	--	--
24...	1002	1.0	--	--	--	--	--	--	--
24...	1003	1.5	--	--	--	--	--	--	--
24...	1004	2.0	--	--	--	--	--	--	--
24...	1005	2.4	--	--	--	--	--	--	--
24...	1008	.30	3.55	--	--	--	--	--	--
24...	1009	.50	--	--	--	--	--	--	--
24...	1010	1.0	--	--	--	--	--	--	--
24...	1011	1.5	--	--	--	--	--	--	--
24...	1012	2.0	--	--	--	--	--	--	--
24...	1013	2.5	--	--	--	--	--	--	--
24...	1014	3.0	--	--	--	--	--	--	--
24...	1015	3.4	--	--	--	--	--	--	--
24...	1017	.30	1.45	--	--	--	--	--	--
24...	1018	.50	--	--	--	--	--	--	--
24...	1019	1.0	--	--	--	--	--	--	--
24...	1020	1.3	--	--	--	--	--	--	--

02297460 PEACE RIVER AT HARBOUR HEIGHTS, FL--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)
AUG									
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	<.01	.19	.02	1.1	.38	.32	22	21	11
23...	<.01	.29	.02	1.2	.48	.41	23	22	10
23...	<.01	.29	.03	1.1	.48	.41	23	22	9.9
SEP									
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	<.01	.26	.04	.86	.65	.59	20	20	14
23...	<.01	.27	.05	.86	.68	.59	19	19	14
23...	<.01	.27	.04	.88	.73	.59	20	20	15

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL

LOCATION.--Lat 27°03'06", long 81°47'05", in SE 1/4 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^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to September 1968; October 1969 to September1977 (gage heights and discharge measurements only); October 1977 to current year.
REVISED RECORDS.--W 1983: 1982 (M and daily).
GAGE.--Water-stage recorder. Datum of gage is 25.00 ft above National Geodetic Vertical Datum of 1929.
REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1600	62	111	48	71	20	14	16	45	2030	202	859
2	1260	59	103	45	66	20	15	16	31	1930	185	800
3	1130	64	98	70	55	21	14	23	42	1780	191	757
4	1020	72	95	78	59	23	13	17	48	1620	206	707
5	871	461	90	76	58	21	13	12	52	1490	190	642
6	725	994	84	68	51	17	11	9.0	62	1360	197	562
7	645	985	79	70	49	19	9.6	7.6	68	1250	192	477
8	551	963	74	62	47	19	8.8	9.2	68	1170	188	418
9	458	917	72	47	43	16	8.3	17	68	1070	190	352
10	332	844	74	57	41	16	7.9	30	64	944	189	285
11	261	764	71	62	41	13	11	29	56	817	178	248
12	229	705	66	36	41	14	8.0	26	56	726	159	254
13	273	628	63	32	39	14	9.2	33	52	647	155	235
14	237	524	75	38	35	14	9.9	32	62	613	178	278
15	244	395	74	45	36	21	8.1	28	55	938	194	281
16	226	309	66	34	31	15	5.9	24	81	722	209	197
17	201	257	62	38	30	17	5.8	23	173	549	244	176
18	165	223	59	39	25	21	7.1	e15	378	492	430	183
19	147	210	59	33	24	19	7.1	e11	527	533	509	238
20	131	193	63	40	28	17	9.3	e12	489	450	486	371
21	149	170	71	36	27	16	11	e10	511	402	502	614
22	137	155	65	27	27	15	8.6	e20	654	648	650	736
23	156	144	63	24	24	14	10	e36	805	790	774	745
24	161	136	61	86	22	16	13	e41	1090	854	1180	713
25	143	141	62	139	28	16	14	37	1060	762	1310	654
26	124	140	60	103	25	17	10	37	1300	675	1170	616
27	98	131	57	87	23	16	8.5	34	1600	599	1110	622
28	83	124	56	79	21	16	16	28	1900	529	1050	593
29	73	123	64	67	---	17	26	25	1820	432	990	539
30	67	121	58	65	---	15	18	28	2000	330	938	478
31	59	---	56	59	---	15	---	44	---	243	907	---
TOTAL	11956	11014	2211	1790	1067	530	331.1	729.8	15217	27395	15253	14630
MEAN	386	367	71.3	57.7	38.1	17.1	11.0	23.5	507	884	492	488
MAX	1600	994	111	139	71	23	26	44	2000	2030	1310	859
MIN	59	59	56	24	21	13	5.8	7.6	31	243	155	176
CFSM	1.66	1.58	.31	.25	.16	.07	.05	.10	2.18	3.79	2.11	2.09
IN.	1.91	1.76	.35	.29	.17	.08	.05	.12	2.43	4.37	2.44	2.34

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	285	85.6	60.9	91.3	136	177	68.2	39.3	256	339	400	480
MAX	1117	367	462	613	984	895	285	284	1608	1196	1193	1546
(WY)	1980	1999	1998	1998	1983	1984	1987	1991	1982	1968	1995	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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	120167.0		102123.9			
ANNUAL MEAN	329		280		202	
HIGHEST ANNUAL MEAN					457	1995
LOWEST ANNUAL MEAN					84.3	1965
HIGHEST DAILY MEAN	1900	Sep 29	2030	Jul 1	4870	Aug 26 1995
LOWEST DAILY MEAN	2.8	Jun 18	5.8	Apr 17	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	5.3	Jun 14	7.6	Apr 13	.04	Jun 1 1965
INSTANTANEOUS PEAK FLOW			2080	Jun 30	5400	Jun 25 1982
INSTANTANEOUS PEAK STAGE			11.82	Jun 30	14.19	Oct 1 1979
ANNUAL RUNOFF (CFSM)	1.41		1.20		.87	
ANNUAL RUNOFF (INCHES)	19.19		16.30		11.77	
10 PERCENT EXCEEDS	931		856		606	
50 PERCENT EXCEEDS	149		71		62	
90 PERCENT EXCEEDS	14		14		7.2	

02298123 PRAIRIE CREEK NEAR FORT OGDEN, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
18...	1145	6.92	223	424	6.30	22.0	5.4
JAN							
06...	1358	4.34	68	644	7.53	12.0	10.0
MAY							
03...	1300	3.28	21	1882	7.01	24.3	6.4
JUN							
02...	1100	3.36	31	953	8.35	26.9	5.7
AUG							
11...	1145	6.27	179	581	7.30	30.0	4.5

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
18...	<.01	.20	.06	1.1	.12	.10
JAN						
06...	.01	.15	.04	.88	.04	.04
MAY						
03...	.05	1.3	.08	.83	.03	.03
JUN						
02...	<.01	.03	.03	.85	.04	.03
AUG						
11...	.02	.19	.07	.75	.16	.11

02298202 SHELL CREEK NEAR PUNTA GORDA, FL

LOCATION.--Lat 26°59'04", long 81°56'09", in NW$^1/_4$ 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^2.

WATER DISCHARGE RECORDS

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 recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).
REMARKS.--Flow regulated by concrete dam. Diversion by city of Punta Gorda for water supply.
REVISIONS.--Water year 1998 adjusted mean 1.28 ft^3/s is in error. Corrected number is 128 ft^3/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	74	129	72	85	31	3.6	28	103	2950	352	1100
2	1390	83	124	68	88	28	5.8	24	96	4510	324	1130
3	1250	77	117	110	84	33	9.8	20	85	3400	322	1010
4	1080	106	114	123	77	36	9.1	21	91	2540	395	901
5	912	572	109	118	77	36	8.7	16	99	2060	386	817
6	782	1120	102	110	75	32	9.4	6.9	108	1740	392	716
7	639	1250	94	108	70	29	6.9	4.6	116	1480	422	610
8	536	1210	88	110	71	24	2.1	3.1	123	1310	344	651
9	450	1090	74	105	68	17	2.1	6.3	127	1200	308	634
10	377	993	69	96	64	15	1.9	29	122	1090	272	523
11	299	879	75	95	63	15	1.5	55	114	988	227	432
12	268	767	78	93	70	16	1.9	72	108	945	212	381
13	418	670	79	76	68	21	1.6	74	116	830	199	348
14	365	561	97	72	61	28	1.1	72	153	775	201	343
15	315	446	104	77	56	34	.86	69	181	1050	216	369
16	284	352	96	81	56	39	.28	58	194	1190	237	336
17	242	295	87	76	51	32	1.1	46	409	958	368	263
18	210	262	85	78	52	29	2.4	33	873	763	639	247
19	180	260	81	75	47	30	2.8	34	1180	935	1050	268
20	160	254	79	78	44	28	1.5	32	1050	750	890	424
21	154	233	85	82	44	23	2.1	32	1010	588	845	824
22	165	209	91	74	44	22	2.0	47	884	848	1190	919
23	149	185	87	61	44	20	2.2	91	e850	1160	1250	935
24	151	171	83	116	38	14	3.6	110	e1000	1040	1340	915
25	148	164	85	178	39	17	3.7	109	e1200	966	1450	882
26	131	163	83	192	43	22	4.5	100	e1500	880	1660	845
27	112	152	80	149	42	25	3.3	90	e2000	743	1520	832
28	99	140	80	128	34	19	3.0	83	e3200	633	1370	825
29	90	135	80	113	---	16	15	81	2990	558	1250	746
30	84	129	81	99	---	13	32	93	2730	486	1170	635
31	78	---	72	92	---	8.0	---	89	---	429	1100	---
TOTAL	13018	13002	2788	3105	1655	752.0	145.84	1628.9	22812	39795	21901	19861
MEAN	420	433	89.9	100	59.1	24.3	4.86	52.5	760	1284	706	662
MAX	1500	1250	129	192	88	39	32	110	3200	4510	1660	1130
MIN	78	74	69	61	34	8.0	.28	3.1	85	429	199	247
(†)	6.0	5.9	5.7	5.4	6.5	6.8	7.4	6.7	4.0	3.9	4.3	4.0

e Estimated

ADJUSTED FOR DIVERSION BY CITY OF PUNTA GORDA

MEAN	426	439	95.6	105	65.6	31.1	12.3	59.2	764	1288	710	666
CFSM	1.14	1.18	.26	.28	.18	.08	.03	.16	2.05	3.45	1.90	1.79
IN	1.32	1.31	.30	.32	.18	.10	.04	.18	2.29	3.98	2.19	1.99

	OBSERVED						ADJUSTED					
CAL YR 1998	TOTAL 168437	MEAN 461	MAX 3060	MIN 6.1			MEAN 467	CFSM 1.25	IN 16.98			
WTR YR 1999	TOTAL 140464	MEAN 385	MAX 4510	MIN .28			MEAN 390	CFSM 1.05	IN 14.20			

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

02298202 SHELL CREEK NEAR PUNTA GORDA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
18...	1230	5.36	272	495	7.70	21.5	3.7
JAN							
06...	1457	5.18	110	753	7.68	13.5	6.7
MAY							
03...	1400	5.04	23	1010	8.46	27.2	4.0
JUN							
02...	1145	5.14	102	1300	8.01	28.5	5.3
AUG							
11...	1239	5.30	227	601	6.82	29.7	1.5
SEP							
29...	1220	5.63	746	434	7.63	27.2	2.0

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
18...	.01	.21	.11	.89	.14	.10
JAN						
06...	<.01	.14	.04	.89	.07	.06
MAY						
03...	.01	.09	.05	.81	.07	.06
JUN						
02...	<.01	<.02	.02	.82	.10	.07
AUG						
11...	<.01	.09	.06	.94	.20	.14
SEP						
29...	<.01	.10	.05	1.1	.13	.10

02298208 SHELL CREEK TIDAL (2.8) NEAR PUNTA GORDA, FL

LOCATION.--Lat 26°58'18", long 81°58'10", in NE$^1/_4$ sec.25, T.40 S., R.23 E., Charlotte County, Hydrologic Unit 03100101, on left bank, on private concrete dock on Riverside Drive, 2.8 mi upstream from mouth, and 7.0 mi north of Punta Gorda.
DRAINAGE AREA.--421 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--March 1997 to current year (gage heights only).
GAGE.--Water-stage recorder. Datum of gage is 8.74 ft below National Geodetic Vertical Datum of 1929.
REMARKS.--Interruptions in record were due to malfunctions of the instruments.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 12.11 ft, Feb. 3, 1998; minimum, 6.59 ft, Oct. 23, 1998.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.09 ft, Sept. 21; minimum, 6.59 ft, Oct. 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11.77	9.47	10.51	8.73	10.08	7.80	10.26	7.57	10.67	8.15	10.70	8.27
2	11.13	9.09	10.82	8.70	9.99	7.51	10.64	8.05	10.96	8.83	10.71	8.45
3	10.97	8.85	10.93	8.64	10.30	7.63	11.79	8.66	10.73	8.61	10.77	8.92
4	10.92	8.86	11.08	8.12	10.61	7.77	10.32	7.56	10.38	8.49	9.95	8.02
5	10.85	8.80	9.59	7.62	10.41	7.60	9.26	7.18	10.09	8.33	9.93	8.20
6	10.70	8.51	10.02	8.04	10.29	7.70	9.43	7.50	10.38	8.36	10.31	8.40
7	10.87	8.54	9.99	7.83	10.38	7.97	9.67	7.69	10.52	8.82	10.09	8.37
8	10.88	8.47	9.90	7.94	10.16	8.01	10.13	8.45	10.43	8.85	9.35	7.60
9	10.86	8.40	10.21	8.21	9.70	7.90	10.71	8.82	10.40	8.57	10.73	7.92
10	10.71	8.17	10.36	8.54	9.50	7.77	10.20	8.47	10.12	8.17	10.35	8.76
11	10.32	8.22	10.34	8.55	9.41	8.05	9.29	7.40	10.46	8.03	10.00	8.24
12	10.32	8.17	10.02	8.29	10.13	8.30	10.25	7.67	10.46	8.18	10.17	7.91
13	10.36	8.35	10.09	8.54	10.29	8.59	10.37	8.20	10.48	7.60	10.68	8.09
14	10.53	8.51	10.26	8.77	10.21	8.38	10.76	7.95	9.51	6.89	11.47	8.83
15	10.26	8.41	10.34	8.49	9.53	7.72	10.80	8.09	9.68	7.42	10.98	8.75
16	9.94	8.54	10.37	8.39	9.90	7.63	10.57	7.80	10.41	8.09	9.67	7.43
17	---	---	10.52	8.30	10.12	7.94	10.65	8.02	10.94	8.58	10.16	8.07
18	10.24	8.47	10.20	8.04	10.18	7.40	10.67	8.16	10.96	8.95	10.32	8.30
19	10.31	8.35	10.24	7.91	10.56	7.94	10.57	7.94	10.77	9.03	10.41	8.37
20	10.35	8.30	10.36	7.93	10.57	7.75	10.41	7.95	10.35	8.65	10.56	8.35
21	10.42	8.39	10.34	7.99	10.77	7.92	10.36	8.21	10.24	8.52	10.86	8.31
22	10.31	7.78	9.94	7.58	10.53	8.19	10.53	8.60	9.95	8.07	10.34	8.44
23	8.66	6.59	10.03	7.80	10.20	7.80	10.55	9.01	10.34	7.89	10.55	7.95
24	9.58	7.50	9.99	7.85	10.41	8.27	10.31	8.85	10.40	8.03	10.21	8.07
25	9.86	7.71	10.01	7.99	10.04	8.30	9.75	7.76	10.34	8.04	10.24	7.95
26	9.86	7.84	9.93	7.93	9.96	8.01	10.04	7.72	10.59	7.90	9.99	8.02
27	10.06	7.89	9.50	7.92	10.09	8.03	10.48	7.69	10.70	8.14	9.95	7.86
28	10.31	8.41	9.64	8.07	10.62	8.15	10.70	7.89	10.76	8.47	9.81	7.43
29	10.55	8.55	9.95	8.13	11.03	8.41	10.76	7.99	---	---	10.05	8.04
30	10.65	8.82	10.03	8.08	11.05	8.29	10.81	8.11	---	---	10.14	8.22
31	10.51	8.70	---	---	10.29	7.61	10.80	8.11	---	---	10.44	8.33
MONTH	---	---	11.08	7.58	11.05	7.40	11.79	7.18	10.96	6.89	11.47	7.43

02298208 SHELL CREEK TIDAL (2.8) NEAR PUNTA GORDA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10.55	8.58	10.35	8.23	10.35	8.12	10.97	8.95	10.84	8.63	10.72	8.72
2	10.23	8.24	10.47	8.19	10.67	8.05	10.94	9.50	10.50	8.67	10.57	8.57
3	10.32	8.23	10.73	8.19	10.59	8.15	11.11	9.49	10.50	8.63	10.62	8.71
4	10.44	8.19	11.01	8.24	10.35	7.97	10.45	9.29	10.68	8.79	11.14	8.94
5	10.45	8.24	11.14	8.71	10.54	8.01	10.17	9.04	11.13	9.14	11.33	9.00
6	10.50	8.25	11.17	8.70	9.78	8.13	10.34	8.75	11.46	9.16	11.53	8.88
7	10.18	8.12	11.05	8.87	9.68	8.09	10.78	8.89	10.99	8.49	11.23	8.72
8	10.34	8.29	10.56	8.69	9.50	8.05	10.94	9.02	10.97	8.27	11.36	9.06
9	10.36	8.32	10.38	8.54	10.38	8.38	10.86	8.43	11.44	8.47	11.45	9.15
10	10.35	8.65	10.25	8.63	10.65	8.53	10.94	8.41	11.43	8.58	11.32	9.15
11	10.35	8.41	10.46	8.67	10.54	8.19	11.18	8.43	11.35	8.64	11.03	9.02
12	10.26	8.56	10.55	8.80	10.77	8.27	11.18	8.34	10.95	8.58	10.65	8.80
13	10.03	8.12	10.73	8.68	10.77	8.19	11.17	8.36	10.82	8.55	10.37	8.42
14	10.60	8.55	11.19	8.89	10.81	8.19	11.15	8.40	10.96	8.61	9.90	7.99
15	11.72	9.47	10.87	8.16	11.03	8.09	11.13	8.42	10.75	9.02	10.60	9.06
16	10.84	8.34	10.63	8.09	11.11	8.21	10.37	8.53	10.57	8.85	10.96	9.02
17	9.94	7.84	10.78	7.87	11.35	8.57	10.77	8.29	10.23	8.54	10.52	8.73
18	9.88	7.70	11.05	8.05	10.52	8.84	10.35	8.44	10.41	8.75	11.06	9.15
19	10.32	7.75	10.93	8.20	10.22	8.63	10.23	8.42	10.61	8.90	11.44	9.56
20	10.47	7.69	10.68	8.34	9.86	8.63	10.31	8.66	10.68	8.89	11.55	10.43
21	10.48	7.89	10.30	8.26	10.16	8.67	10.29	8.60	10.65	8.85	12.09	9.51
22	10.46	8.15	10.04	8.20	10.06	8.52	10.32	8.46	10.65	8.67	11.05	8.98
23	10.13	8.17	10.12	8.38	10.26	8.56	10.70	8.64	10.88	8.63	10.97	8.88
24	9.98	8.22	10.36	8.65	10.50	8.56	10.89	8.65	10.94	8.66	11.27	9.06
25	10.38	8.46	10.46	8.66	10.68	8.65	10.95	8.51	11.15	8.71	11.41	9.24
26	10.43	8.55	10.36	8.50	10.72	8.71	10.87	8.37	11.07	8.73	11.06	9.09
27	10.81	9.08	10.43	8.36	10.97	8.79	10.99	8.32	10.94	8.72	11.07	8.99
28	10.88	8.84	10.45	8.22	10.78	8.79	11.08	8.36	10.94	8.72	11.04	8.77
29	10.89	8.85	10.48	8.24	11.07	8.94	11.10	8.45	11.11	8.95	11.09	8.89
30	10.81	8.42	10.31	8.02	11.04	9.08	10.98	8.61	11.02	9.04	11.04	8.75
31	---	---	10.35	7.97	---	---	11.02	8.57	10.68	8.87	---	---
MONTH	11.72	7.69	11.19	7.87	11.35	7.97	11.18	8.29	11.46	8.27	12.09	7.99

02298208 SHELL CREEK TIDAL (2.8) NEAR PUNTA GORDA, FL--Continued

WATER-QUALITY RECORDS

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

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

REMARKS.--Interruptions in record were due to malfunctions of the instruments.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 30,900 microsiemens, Apr. 15, 1999; bottom probe maximum, 31,500 microsiemens, Apr. 15, 1999; top probe minimum, 155 microsiemens, Sept. 28, 1997; bottom probe minimum, 179 microsiemens, Sept. 28, 1997.

TEMPERATURE.--Top probe maximum, 34.1°C, Aug. 27, 1999; bottom probe maximum, 33.8°C, July 3, 4, 29, 30, 1998; top probe minimum, 14.5°C, Jan. 1, 2, 1998; bottom probe minimum, 13.4°C, Feb. 9, 10, 1998.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 30,900 microsiemens, Apr. 15; bottom probe maximum, 31,500 microsiemens, Apr.15; top probe minimum, 182 microsiemens, Sept. 27; bottom probe minimum, 243 microsiemens, July 2.

TEMPERATURE.--Top probe maximum, 34.1°C, Aug. 27; bottom probe maximum, 33.4°C, Aug. 2; top probe minimum, 14.9°C, Jan. 6; bottom probe minimum, 14.8°C, Jan. 6.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	334	322	5040	808	2690	631	10800	1600	8140	1210	15600	5190
2	337	323	7860	878	2740	558	13900	2570	10100	1500	15600	5840
3	351	328	8610	949	4690	639	22500	3420	7980	1300	16700	7190
4	361	347	10100	777	8610	674	9430	1670	4620	1170	11300	5240
5	366	353	954	638	7580	694	3920	1000	3340	1010	10800	4890
6	379	356	825	507	6450	713	3760	915	4660	1080	13200	5010
7	381	363	509	354	7720	745	4360	881	7080	1300	12100	4780
8	393	373	357	326	5760	741	6700	915	5990	1280	10200	4520
9	413	389	356	328	4400	733	13200	1410	6510	1100	19300	4710
10	431	409	366	340	5140	715	6800	1400	5370	1060	13800	6120
11	449	425	381	336	5480	757	4960	896	8380	1240	13200	5290
12	464	446	389	371	7620	1170	9660	930	11800	2570	15600	5320
13	467	456	391	369	7570	1620	10500	2150	11800	2740	18800	3050
14	488	463	399	380	5090	1470	17300	2970	8100	1410	26400	8870
15	493	463	422	396	2600	758	18100	4000	9580	2970	21600	11300
16	---	---	450	417	4110	758	15300	4100	12400	4100	14300	9690
17	---	---	465	421	5080	775	15400	4470	18200	5040	16300	9270
18	561	542	490	459	6380	774	14800	4700	18100	6170	16900	9790
19	575	552	518	479	9220	887	13600	3950	16000	6710	17500	9750
20	634	561	553	503	9800	950	11500	3950	12400	5040	18900	9430
21	626	576	602	526	11800	1100	10900	3800	10900	4930	21100	10700
22	623	584	592	545	10400	1280	12700	3710	9130	4260	17400	9660
23	657	594	770	573	7470	960	13600	3940	10300	3780	18600	9970
24	675	627	1090	593	8440	1540	7350	3460	11700	3600	15800	9200
25	683	608	3110	610	7240	1620	4270	1670	12100	3970	16100	9530
26	785	614	2090	620	6990	1480	3900	1110	14100	4030	15500	9520
27	1390	622	1620	621	7530	1420	7900	901	15000	4730	13900	9640
28	3440	637	1860	621	12200	1550	9840	910	17100	5650	14700	8380
29	4400	651	2440	625	17600	2220	10700	1060	---	---	15800	8290
30	6040	753	2820	628	17600	2400	10900	1160	---	---	16300	7710
31	5550	774	---	---	9560	1680	9680	1210	---	---	19700	8440
MONTH	---	---	10100	326	17600	558	22500	881	18200	1010	26400	3050

02298208 SHELL CREEK TIDAL (2.8) NEAR PUNTA GORDA, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	20500	11000	23100	16700	11400	4400	370	340	551	456	329	295
2	18300	10600	22900	15900	15900	3430	348	247	528	481	381	317
3	18900	10900	23300	15100	16500	4900	273	248	546	495	422	375
4	20000	10700	26000	15500	11100	5000	289	268	567	517	422	393
5	20600	11000	27600	15900	14400	4500	327	284	651	526	425	387
6	20400	11100	27400	16000	8920	4610	344	323	939	562	426	381
7	17200	10400	26300	16200	7980	3900	378	343	638	597	421	395
8	20000	10400	23900	16400	8450	2840	398	370	697	606	437	411
9	19900	11900	22800	16400	13300	3100	444	394	930	605	510	432
10	20200	12600	21000	16100	15500	3370	481	443	1070	616	536	496
11	20000	12600	21500	16200	14900	3010	508	476	969	622	564	526
12	19400	13700	21600	15500	17200	3270	545	499	769	630	550	497
13	18800	13100	22400	14200	17400	3170	561	516	724	627	524	493
14	23000	14000	26000	13600	14100	2750	598	533	782	628	539	491
15	30900	16500	22800	10700	16000	2230	588	532	723	639	545	521
16	25400	15100	20600	9950	14400	1920	594	506	696	643	585	535
17	20600	14400	22100	9500	10500	1190	514	448	678	618	566	539
18	20300	13900	24800	10100	1200	856	482	448	618	487	2650	561
19	22300	14400	24200	12000	856	501	525	471	487	400	5560	606
20	22800	14200	21800	10800	502	465	543	522	400	335	5040	627
21	22400	13400	17000	11400	516	474	530	501	355	333	4600	601
22	22400	13900	16300	10500	568	508	517	482	361	327	645	497
23	20900	15200	15500	9970	652	555	520	448	367	327	503	437
24	21400	15200	17500	7780	736	630	451	383	379	361	475	425
25	23000	16600	16900	7440	712	605	399	383	367	311	562	418
26	23200	17200	15600	5950	612	517	401	370	311	276	444	424
27	25700	18600	15900	5880	528	469	413	375	288	270	445	182
28	27600	18000	16500	5400	500	391	432	395	286	265	449	365
29	27400	18200	16400	5170	392	356	469	408	292	269	465	373
30	25900	17600	12400	4320	375	358	467	418	293	274	452	377
31	---	---	12900	4170	---	---	532	435	310	282	---	---
MONTH	30900	10400	27600	4170	17400	356	598	247	1070	265	5560	182

02298208 SHELL CREEK TIDAL (2.8) NEAR PUNTA GORDA, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PWATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	331	319	5700	813	2890	629	11500	1450	---	---	15300	4990
2	333	318	8460	879	2890	619	14500	2400	---	---	15200	5790
3	348	324	9200	957	4920	649	23400	3270	---	---	16200	6910
4	358	342	10800	765	9900	689	9650	1580	---	---	10900	5000
5	362	347	948	636	8060	695	4420	949	---	---	10800	4660
6	375	347	818	505	7170	704	4120	899	4320	1060	12700	4760
7	377	359	506	348	8120	745	4470	853	7420	1230	11900	4690
8	388	366	350	325	7240	745	8780	890	5940	1200	9710	4260
9	410	383	351	324	5420	737	13100	1460	---	---	19900	4440
10	426	404	360	335	5390	716	7100	1350	---	---	15500	6160
11	444	421	376	346	5830	759	5150	890	---	---	14300	4930
12	459	440	386	362	9250	1220	13600	911	---	---	15500	4970
13	462	450	387	365	10100	1660	17800	2120	---	---	20800	6340
14	484	458	396	382	8400	1450	19900	2900	---	---	25500	9270
15	487	462	418	390	2600	741	20500	4070	---	---	21000	9900
16	---	---	444	414	4440	737	16300	4080	---	---	14200	7860
17	---	---	468	432	5560	755	16500	4620	---	---	15700	8220
18	557	538	485	454	8320	750	15500	4820	---	---	16500	9130
19	571	546	514	478	10400	875	14200	3780	---	---	16900	9380
20	604	559	548	490	10300	929	12000	3660	---	---	18300	9500
21	624	572	597	522	13500	1070	11100	3560	---	---	20800	9420
22	616	577	592	542	10900	1260	15300	3480	---	---	16900	8750
23	648	588	769	566	8160	965	15200	4060	---	---	18200	8280
24	668	620	1100	592	11200	1460	9070	3380	---	---	16300	7740
25	674	607	3220	600	9850	1510	4630	1460	12700	3780	16100	7840
26	776	612	2890	620	8340	1440	4330	1000	13500	3810	15000	8000
27	1390	619	1620	615	8520	1380	9190	857	14900	4600	14500	7300
28	4180	633	1870	621	14200	1480	11100	872	16600	5510	14500	7590
29	5890	646	2590	625	17900	2070	12000	3740	---	---	15400	8140
30	7640	742	3180	628	17900	2260	---	---	---	---	15900	9360
31	6710	769	---	---	11000	1630	---	---	---	---	20600	9350
MONTH	---	---	10800	324	17900	619	---	---	---	---	25500	4260

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21000	11200	24300	16800	13300	4110	364	336	539	448	325	269
2	18700	10800	24100	16700	16700	3870	345	243	518	473	337	293
3	19100	11200	24500	15500	16000	4650	270	244	536	486	376	329
4	20000	10700	27700	16000	14200	4720	286	264	560	505	376	349
5	20800	11000	28900	16600	13900	4290	323	281	644	516	379	342
6	20800	11200	29100	16700	8640	4290	342	310	940	550	377	337
7	19500	10500	27700	17000	7940	3430	373	340	621	581	374	352
8	20400	10400	25100	17200	7850	2680	392	367	677	591	390	367
9	22000	12000	23600	17000	12600	2710	437	388	940	590	460	385
10	20700	12700	22300	16700	15200	3270	474	423	1090	597	488	449
11	20500	12900	22500	16700	13700	2730	500	469	942	596	512	477
12	20100	14100	22300	16000	15700	3160	531	488	744	611	501	452
13	19100	14000	23400	14400	15700	3110	552	508	703	608	475	446
14	24300	14200	27000	13500	13300	2590	586	525	754	610	491	445
15	31500	17000	23900	11000	13800	2100	578	539	695	618	496	473
16	26600	15700	20900	9760	12900	1840	584	498	672	618	534	487
17	20800	14500	22900	9510	9990	1140	506	439	653	598	518	492
18	20700	14200	26000	10000	1150	829	475	441	598	475	3060	516
19	22900	14500	25100	10900	829	500	514	463	475	367	8990	570
20	23900	14400	23100	11200	502	466	530	510	391	339	5850	581
21	24700	13900	20100	11000	514	476	517	472	356	335	8250	553
22	24500	14300	17600	10900	560	503	510	474	359	331	591	454
23	22300	15300	17300	10500	635	550	512	441	364	329	459	395
24	22000	15400	18600	9390	718	603	444	379	373	341	440	387
25	23600	17000	18000	8040	696	569	393	378	364	314	516	380
26	24000	17500	16400	6350	598	519	399	366	314	278	402	380
27	27100	19300	16700	5780	524	471	405	371	293	273	402	384
28	29400	18900	16700	5400	491	385	425	390	291	270	408	389
29	29300	19700	16600	5020	385	351	465	402	296	272	421	392
30	27300	18900	13900	4120	370	351	455	410	295	278	410	390
31	---	---	13300	4010	---	---	524	418	311	285	---	---
MONTH	31500	10400	29100	4010	16700	351	586	243	1090	270	8990	269

02298208 SHELL CREEK TIDAL (2.8) NEAR PUNTA GORDA, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT BELOW SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.8	27.8	25.7	23.6	24.9	22.9	20.7	19.4	23.7	21.8	21.1	19.7
2	29.3	27.8	25.3	23.7	24.5	22.9	21.4	19.7	23.3	22.1	21.4	19.7
3	30.3	27.8	25.3	24.0	24.2	23.1	21.8	20.7	24.1	22.5	21.3	19.7
4	31.4	27.8	24.9	22.7	24.5	23.3	20.7	18.7	24.7	22.9	20.4	18.4
5	30.9	27.9	22.7	21.8	24.9	23.3	18.7	16.9	24.9	23.0	20.0	18.1
6	30.3	28.3	21.8	20.7	24.9	23.6	16.9	14.9	24.9	22.9	21.4	18.7
7	30.3	28.3	21.0	19.7	24.9	23.6	16.9	15.0	24.9	22.9	22.5	19.4
8	30.1	28.6	20.7	19.4	24.9	23.4	17.2	15.5	25.3	22.9	21.8	20.0
9	30.3	28.3	21.2	19.7	24.9	23.6	18.7	16.6	25.3	23.3	21.8	20.0
10	30.3	28.3	22.2	20.7	24.9	23.6	18.1	16.6	24.9	22.9	23.3	20.7
11	30.3	28.5	22.9	21.4	24.1	23.6	16.9	15.5	24.9	22.9	23.6	19.4
12	29.8	28.8	23.7	22.1	24.1	23.3	17.5	15.8	24.1	22.9	23.7	19.0
13	28.8	28.1	24.6	22.5	24.5	23.3	18.4	16.0	23.7	21.0	22.9	19.7
14	28.8	27.7	24.9	22.9	23.7	21.7	19.1	16.8	21.0	19.0	22.5	21.4
15	28.3	26.8	25.3	22.9	21.8	20.7	19.4	17.8	20.0	18.1	22.0	19.9
16	---	---	25.3	23.1	20.7	19.6	20.4	18.1	20.4	18.1	21.1	19.0
17	---	---	26.2	24.1	19.7	18.5	21.2	19.7	20.7	19.4	22.0	18.4
18	27.6	25.7	25.7	24.0	19.3	17.5	21.8	20.4	22.2	20.0	22.9	19.4
19	27.6	25.7	25.7	24.1	19.4	17.8	22.1	20.7	22.9	21.0	23.7	20.7
20	28.5	26.2	25.8	24.9	20.4	18.7	22.5	21.1	22.5	20.7	24.1	20.7
21	28.1	27.0	26.2	24.9	21.8	20.0	22.9	21.4	21.8	19.7	24.5	22.1
22	27.6	25.7	26.2	24.9	22.9	21.0	23.7	21.8	20.0	18.7	24.1	21.7
23	25.7	22.5	26.2	24.9	23.3	21.8	23.7	22.1	19.7	17.8	24.5	22.1
24	24.9	22.9	26.2	25.3	24.1	22.1	23.3	22.1	20.0	17.2	24.5	22.1
25	25.3	23.6	25.7	24.9	24.1	22.9	22.9	20.7	20.7	17.2	24.9	22.1
26	24.9	23.6	25.7	24.9	23.7	22.1	22.1	20.7	21.1	17.2	24.1	21.4
27	24.9	23.6	25.3	24.4	22.9	21.7	22.9	20.5	20.7	18.4	24.9	21.7
28	24.9	24.0	24.9	23.6	22.5	21.8	22.9	20.7	21.8	19.4	24.9	20.7
29	25.2	24.0	24.5	22.9	22.5	21.4	22.6	20.7	---	---	26.2	22.1
30	25.5	23.6	24.3	22.5	22.1	20.7	22.9	21.0	---	---	24.9	22.1
31	25.9	23.6	---	---	21.0	19.7	22.9	22.1	---	---	24.5	22.9
MONTH	---	---	26.2	19.4	24.9	17.5	23.7	14.9	25.3	17.2	26.2	18.1

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.3	23.2	26.6	24.4	30.4	27.1	29.5	27.1	33.5	31.1	30.6	29.3
2	26.6	24.0	24.9	22.9	29.5	26.2	27.1	26.2	33.5	31.7	30.6	29.3
3	27.1	24.4	25.3	22.9	31.1	27.2	28.9	26.6	31.7	30.4	30.1	29.5
4	27.6	25.3	25.8	23.6	31.7	27.5	29.5	27.5	30.6	29.5	30.6	29.0
5	28.0	25.3	26.6	24.5	31.7	27.5	30.1	28.0	30.1	29.5	31.1	29.5
6	29.0	26.2	27.7	25.7	30.1	28.0	30.6	28.5	30.1	29.5	30.1	29.5
7	29.0	26.2	29.5	26.6	29.5	28.5	30.6	28.5	31.1	29.0	29.7	29.0
8	28.5	25.7	29.0	26.6	28.5	27.1	30.1	29.0	32.3	29.5	29.0	28.5
9	28.5	26.2	28.6	27.0	28.0	27.1	31.7	29.0	31.7	30.1	29.1	28.0
10	29.0	26.0	29.0	26.1	29.5	26.9	32.6	29.5	31.8	30.0	30.1	28.5
11	29.0	26.2	28.5	25.9	31.6	27.6	31.2	29.5	31.7	30.0	31.1	28.5
12	29.5	26.6	27.5	26.2	30.1	28.0	31.1	29.5	31.7	30.0	30.6	29.0
13	28.1	26.1	28.5	25.7	31.2	28.5	31.7	29.5	32.8	30.0	31.1	29.0
14	27.6	25.3	28.6	26.2	31.7	28.0	31.1	29.5	33.0	30.6	30.1	28.5
15	27.1	25.7	29.0	27.1	31.1	29.0	30.6	29.0	32.9	30.6	29.5	28.0
16	27.6	26.2	28.7	26.2	30.6	26.6	30.6	28.5	32.9	30.6	30.1	28.0
17	27.1	24.0	28.5	26.2	29.5	26.2	30.1	28.5	31.5	29.5	30.1	28.5
18	24.9	23.0	28.5	26.6	28.0	26.6	30.1	28.0	29.6	28.5	29.5	29.0
19	24.5	22.5	28.5	27.1	26.6	25.7	30.1	28.5	28.7	28.0	29.4	28.1
20	25.3	22.1	30.1	26.5	26.2	25.4	31.2	29.0	28.5	27.5	28.3	26.8
21	27.1	22.9	29.5	26.6	27.6	25.7	31.7	29.5	29.0	27.5	27.1	26.6
22	27.1	22.9	29.0	26.2	29.0	26.6	32.3	29.5	28.5	27.1	28.5	26.6
23	27.7	24.0	29.5	25.7	30.6	27.1	30.1	29.0	29.0	27.1	27.6	25.7
24	29.5	25.2	29.9	26.9	30.1	27.6	30.6	29.0	30.6	27.1	27.1	26.1
25	28.5	25.5	30.4	27.1	29.5	28.0	31.7	29.5	31.7	28.1	26.6	25.8
26	29.0	26.2	31.1	27.5	29.0	27.5	32.9	30.0	33.2	29.0	27.1	25.9
27	29.0	27.1	31.7	28.0	29.5	27.6	32.9	30.6	34.1	29.5	27.7	26.2
28	29.5	27.1	31.6	28.0	28.5	27.5	32.9	30.9	32.9	30.0	29.5	27.1
29	29.5	27.1	31.7	28.5	28.5	27.1	32.9	31.1	31.7	30.6	29.9	27.7
30	28.5	26.6	30.1	27.5	28.5	27.1	32.3	30.6	32.8	30.6	30.6	28.5
31	---	---	30.1	27.1	---	---	32.9	31.1	31.7	30.6	---	---
MONTH	29.5	22.1	31.7	22.9	31.7	25.4	32.9	26.2	34.1	27.1	31.1	25.7

02298208 SHELL CREEK TIDAL (2.8) NEAR PUNTA GORDA, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	28.7	27.7	25.6	23.5	24.8	22.8	20.6	19.6	23.6	22.0	21.2	19.6
2	29.0	27.7	25.2	23.9	24.8	22.8	21.7	19.8	23.5	22.0	21.7	19.6
3	29.5	27.7	25.2	23.9	24.4	23.2	21.7	20.6	24.0	22.4	21.3	19.6
4	29.7	27.7	24.8	22.8	24.8	23.2	20.6	18.9	24.4	22.8	20.3	18.3
5	30.2	28.1	22.8	21.7	24.8	23.2	18.9	16.8	24.8	23.1	20.1	18.3
6	29.5	28.2	21.7	20.7	24.8	23.5	16.8	14.8	24.8	22.8	21.0	18.9
7	30.2	28.2	20.9	19.6	24.8	23.5	17.1	14.9	24.8	22.8	22.4	19.6
8	29.7	28.7	20.6	19.3	24.8	23.5	17.4	16.0	25.2	23.1	21.7	19.9
9	30.2	28.2	21.3	19.8	25.2	23.5	18.6	16.5	25.2	23.2	21.7	19.9
10	30.2	28.2	22.1	20.6	24.9	23.5	18.2	16.8	24.8	23.1	22.8	20.6
11	30.2	28.7	22.8	21.7	24.4	23.5	16.8	15.7	24.0	22.8	22.8	19.9
12	29.7	28.7	23.6	22.4	24.0	23.5	17.1	15.7	24.3	22.8	22.1	19.6
13	29.2	28.2	24.8	22.8	24.4	23.2	17.2	16.0	23.9	21.3	22.8	20.2
14	28.7	27.7	24.4	23.0	24.0	22.0	18.7	16.8	21.3	18.9	22.8	21.7
15	28.2	26.7	25.2	22.8	22.0	20.9	19.0	17.7	19.9	18.0	22.0	19.9
16	---	---	25.2	23.2	20.9	19.6	20.2	18.0	20.3	18.3	21.0	18.9
17	---	---	26.1	24.0	19.6	18.7	21.0	19.6	20.6	19.4	22.0	19.2
18	27.5	25.8	25.2	23.9	19.3	17.6	21.7	20.3	22.1	19.9	22.8	20.2
19	27.5	25.6	25.6	24.0	19.3	18.0	22.0	20.6	22.8	20.9	23.6	21.3
20	27.9	26.1	26.1	24.8	20.6	18.7	22.4	21.3	22.4	20.6	24.0	21.6
21	28.4	27.0	26.1	24.8	22.0	19.9	22.8	21.3	21.6	19.9	24.4	22.4
22	27.5	26.1	26.1	24.8	22.8	20.9	24.0	21.7	19.9	18.6	24.0	21.7
23	26.1	23.9	26.1	25.2	23.6	22.0	23.6	22.2	18.9	17.4	23.6	22.0
24	24.8	22.8	26.1	25.2	24.0	22.2	23.2	22.0	19.0	17.4	24.0	21.6
25	25.2	23.5	25.6	25.2	24.4	22.8	22.8	20.9	19.9	17.1	24.4	21.6
26	24.8	23.9	25.6	25.2	23.9	22.8	22.4	20.6	19.7	17.4	24.0	22.0
27	24.8	23.5	25.2	24.5	22.8	21.6	22.0	20.6	20.6	18.3	24.8	21.7
28	25.2	23.9	24.8	23.5	22.4	22.0	22.1	20.6	21.7	19.3	24.4	21.6
29	25.2	23.9	24.4	22.8	22.4	21.7	22.2	20.7	---	---	25.6	22.4
30	25.2	23.5	24.0	22.4	22.0	20.9	22.8	21.0	---	---	24.8	23.5
31	25.4	23.5	---	---	21.3	19.6	22.8	22.0	---	---	24.6	22.8
MONTH	---	---	26.1	19.3	25.2	17.6	24.0	14.8	25.2	17.1	25.6	18.3

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.2	23.1	26.5	24.4	29.4	27.4	28.5	27.0	32.8	31.0	30.5	29.4
2	26.5	23.9	24.8	23.1	28.9	27.9	27.0	26.1	33.4	31.6	30.5	29.4
3	27.0	24.4	25.2	23.1	28.9	27.5	28.4	26.4	31.6	30.4	30.0	29.4
4	27.5	25.2	25.7	23.9	30.5	27.9	29.0	27.4	30.5	29.4	30.0	28.9
5	27.9	25.8	26.6	24.8	30.0	27.9	29.7	27.9	30.0	29.4	30.0	29.4
6	28.9	26.4	27.5	25.6	30.0	27.9	30.0	28.4	30.0	29.4	30.0	29.4
7	28.9	26.5	28.5	26.5	28.9	27.9	30.5	28.4	30.5	28.9	29.6	28.9
8	27.9	25.9	28.9	26.5	28.4	27.0	30.0	28.9	31.9	29.4	28.9	28.4
9	28.1	26.1	28.4	27.0	27.9	26.5	31.0	28.9	31.6	29.9	28.9	27.9
10	28.4	26.1	28.9	26.1	29.4	26.5	32.2	29.4	31.6	29.9	30.0	28.4
11	28.9	26.4	28.4	26.1	30.5	27.4	31.1	29.4	31.6	29.9	30.5	28.5
12	29.4	26.5	27.5	26.1	30.0	28.4	31.0	29.4	31.0	29.9	30.5	28.9
13	28.4	26.0	28.4	25.6	31.0	28.4	31.6	29.4	32.2	29.9	31.0	28.9
14	27.5	25.6	28.8	26.5	31.6	28.0	31.0	29.4	32.3	30.5	30.0	28.4
15	27.1	25.9	28.9	27.0	31.0	28.9	30.0	28.9	32.2	30.5	29.4	27.9
16	27.9	26.1	28.9	26.1	30.8	29.4	30.0	28.4	32.8	30.4	29.4	28.0
17	27.0	24.3	28.4	26.1	29.4	28.1	30.0	28.4	31.0	29.4	30.0	28.5
18	24.8	23.1	28.4	26.5	28.1	26.5	30.0	28.4	29.4	28.4	29.4	28.9
19	24.8	22.5	27.9	27.0	26.5	25.6	30.0	28.4	28.5	27.9	29.3	28.3
20	24.1	22.4	28.4	26.5	26.1	25.5	31.1	29.4	28.4	27.4	28.4	26.8
21	24.8	22.8	27.9	26.1	27.5	25.6	31.6	29.4	28.9	27.4	27.0	26.5
22	26.1	22.8	28.5	26.1	28.9	26.6	31.7	29.4	28.4	27.0	28.0	26.4
23	26.1	23.9	28.9	25.7	30.0	27.3	30.0	28.9	28.4	27.0	27.0	25.6
24	28.9	25.2	29.4	27.0	29.4	27.4	30.5	28.9	30.0	27.0	26.6	26.1
25	28.4	25.6	29.5	27.0	29.4	27.9	31.0	29.4	29.5	27.9	26.7	25.7
26	28.9	26.5	30.5	27.5	28.9	27.4	31.8	29.9	31.0	28.9	27.0	26.1
27	29.4	27.0	30.5	27.9	28.9	27.5	32.8	30.5	32.2	29.4	27.5	26.1
28	29.4	27.0	31.0	28.4	28.4	27.0	32.8	31.0	32.8	29.9	28.9	27.0
29	29.4	27.0	31.1	28.4	27.9	26.6	32.2	31.0	31.6	30.5	29.4	27.4
30	28.4	26.5	29.4	27.9	28.0	27.0	32.1	30.7	31.6	30.5	30.0	27.9
31	---	---	29.6	27.4	---	---	32.2	31.0	31.6	30.5	---	---
MONTH	29.4	22.4	31.1	23.1	31.6	25.5	32.8	26.1	33.4	27.0	31.0	25.6

02298492 LONG CREEK NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°24'33", long 82°07'36", in NE$^1/_4$ sec.29, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, 0.4 mi northeast of Myakka City-Wauchula Road, on right bank about 1.5 mi northeast of confluence with Myakka River, and 5.0 mi northeast of Myakka City.
DRAINAGE AREA.--6.05 mi^2.
PERIOD OF RECORD.--January to September 1999.
GAGE.--Water-stage recorder. Datum of gage has not been determined.
REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD JANUARY TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	1.6	4.3	2.0	2.7	2.0	16	36	12	12
2	---	---	---	1.4	3.9	1.8	2.1	1.5	11	55	8.6	14
3	---	---	---	9.4	4.0	2.2	1.5	1.2	17	47	6.8	11
4	---	---	---	7.0	3.7	3.2	1.3	.80	16	36	13	8.7
5	---	---	---	5.9	3.5	2.4	1.5	.62	11	25	32	7.1
6	---	---	---	6.1	3.5	1.8	2.6	.56	11	17	32	6.2
7	---	---	---	5.8	4.1	1.9	1.7	.64	8.4	14	39	5.9
8	---	---	---	5.0	4.8	2.9	1.1	.73	7.8	12	32	5.4
9	---	---	---	5.3	4.3	3.1	1.2	2.5	7.9	9.5	20	5.0
10	---	---	---	6.2	3.4	2.9	1.7	6.2	6.5	8.1	14	4.4
11	---	---	---	5.5	2.8	2.2	1.3	4.5	5.3	6.7	11	3.8
12	---	---	---	4.5	2.5	1.9	.84	3.7	4.4	6.5	12	3.6
13	---	---	---	4.1	2.2	2.1	.65	3.5	6.4	6.7	12	3.5
14	---	---	---	3.8	2.1	2.6	.62	2.7	21	6.3	9.3	3.2
15	---	---	---	3.7	3.0	4.9	.61	2.1	15	5.8	7.6	4.5
16	---	---	---	3.6	2.3	3.7	.86	1.7	14	5.2	6.3	3.9
17	---	---	---	3.5	1.8	3.8	1.6	1.3	40	4.8	5.6	3.4
18	---	---	---	3.2	1.7	2.9	2.0	1.1	79	4.8	6.2	3.5
19	---	---	---	3.0	1.6	2.6	1.5	1.0	58	4.6	5.8	4.9
20	---	---	---	2.9	1.7	2.8	1.1	1.2	41	4.1	5.8	7.2
21	---	---	---	2.8	2.9	3.1	.95	1.7	28	3.5	5.7	8.9
22	---	---	---	2.6	3.7	3.4	.94	3.1	20	3.3	7.1	9.1
23	---	---	---	2.8	3.3	2.4	.89	3.9	15	4.7	9.0	8.0
24	---	---	---	15	2.3	2.4	.98	14	20	4.5	11	6.9
25	---	---	---	12	1.9	2.3	.81	7.7	22	4.3	11	6.4
26	---	---	---	9.8	1.9	2.5	.59	5.7	27	3.8	9.6	7.3
27	---	---	---	8.0	2.0	2.7	.68	4.4	19	4.5	8.1	10
28	---	---	---	7.0	2.6	2.1	.61	4.2	24	7.7	8.3	56
29	---	---	---	6.9	---	2.1	1.6	6.0	24	6.7	8.2	47
30	---	---	---	5.7	---	2.5	2.0	21	32	14	7.1	31
31	---	---	---	4.8	---	2.9	---	31	---	17	7.0	---
TOTAL	---	---	---	168.9	81.8	82.1	38.53	142.25	627.7	389.1	383.1	311.8
MEAN	---	---	---	5.45	2.92	2.65	1.28	4.59	20.9	12.6	12.4	10.4
MAX	---	---	---	15	4.8	4.9	2.7	31	79	55	39	56
MIN	---	---	---	1.4	1.6	1.8	.59	.56	4.4	3.3	5.6	3.2
CFSM	---	---	---	.90	.48	.44	.21	.76	3.46	2.07	2.04	1.72
IN.	---	---	---	1.04	.50	.50	.24	.87	3.86	2.39	2.36	1.92
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 1999, BY WATER YEAR (WY)												
MEAN	---	---	---	5.45	2.92	2.65	1.28	4.59	20.9	12.6	12.4	10.4
MAX	---	---	---	5.45	2.92	2.65	1.28	4.59	20.9	12.6	12.4	10.4
(WY)	---	---	---	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	---	---	---	5.45	2.92	2.65	1.28	4.59	20.9	12.6	12.4	10.4
(WY)	---	---	---	1999	1999	1999	1999	1999	1999	1999	1999	1999

02298492 LONG CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, PERIOD JANUARY TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	41.76	42.09	41.82	41.88	41.81	42.89	43.71	42.71	42.76
2	---	---	---	41.74	42.05	41.79	41.82	41.76	42.59	44.29	42.49	42.87
3	---	---	---	42.46	42.06	41.83	41.76	41.71	42.91	44.08	42.35	42.69
4	---	---	---	42.27	42.03	41.92	41.73	41.65	42.87	43.73	42.65	42.50
5	---	---	---	42.18	42.01	41.84	41.75	41.62	42.60	43.34	43.59	42.37
6	---	---	---	42.20	42.00	41.79	41.87	41.60	42.56	43.01	43.57	42.29
7	---	---	---	42.16	42.06	41.80	41.78	41.62	42.39	42.83	43.82	42.27
8	---	---	---	42.10	42.12	41.90	41.69	41.64	42.35	42.70	43.58	42.22
9	---	---	---	42.12	42.08	41.92	41.71	41.83	42.35	42.57	43.11	42.19
10	---	---	---	42.21	41.99	41.89	41.78	42.21	42.23	42.46	42.85	42.13
11	---	---	---	42.14	41.93	41.83	41.73	42.05	42.13	42.34	42.68	42.08
12	---	---	---	42.06	41.89	41.80	41.66	41.98	42.04	42.32	42.72	42.06
13	---	---	---	42.02	41.86	41.82	41.62	41.95	42.19	42.34	42.74	42.04
14	---	---	---	41.99	41.85	41.87	41.62	41.88	43.13	42.30	42.55	42.02
15	---	---	---	41.98	41.93	42.09	41.61	41.82	42.83	42.26	42.42	42.14
16	---	---	---	41.97	41.87	41.98	41.66	41.77	42.77	42.20	42.30	42.09
17	---	---	---	41.95	41.82	41.99	41.77	41.73	43.64	42.17	42.24	42.04
18	---	---	---	41.92	41.80	41.90	41.81	41.70	44.85	42.18	42.29	42.05
19	---	---	---	41.91	41.78	41.87	41.75	41.69	44.38	42.16	42.26	42.18
20	---	---	---	41.90	41.80	41.89	41.70	41.71	43.89	42.11	42.25	42.38
21	---	---	---	41.89	41.92	41.92	41.68	41.78	43.43	42.05	42.25	42.52
22	---	---	---	41.87	42.00	41.95	41.67	41.92	43.11	42.03	42.37	42.54
23	---	---	---	41.88	41.95	41.85	41.67	41.99	42.90	42.16	42.52	42.45
24	---	---	---	42.81	41.85	41.85	41.68	42.73	43.13	42.15	42.66	42.36
25	---	---	---	42.64	41.81	41.84	41.65	42.34	43.16	42.13	42.67	42.31
26	---	---	---	42.51	41.80	41.86	41.61	42.16	43.39	42.08	42.57	42.38
27	---	---	---	42.38	41.82	41.88	41.63	42.05	43.08	42.14	42.45	42.61
28	---	---	---	42.31	41.88	41.82	41.61	42.02	43.30	42.42	42.47	44.31
29	---	---	---	42.30	---	41.82	41.77	42.15	43.27	42.34	42.46	44.07
30	---	---	---	42.20	---	41.86	41.81	43.11	43.59	42.75	42.37	43.55
31	---	---	---	42.13	---	41.90	---	43.52	---	42.99	42.36	---
MEAN	---	---	---	42.13	41.93	41.87	41.72	41.98	43.00	42.59	42.66	42.48
MAX	---	---	---	42.81	42.12	42.09	41.88	43.52	44.85	44.29	43.82	44.31
MIN	---	---	---	41.74	41.78	41.79	41.61	41.60	42.04	42.03	42.24	42.02

02298494 FLATFORD SWAMP NEAR MYAKKA RIVER NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°23'37", long 82°08'33", in NE$^1/_4$ sec.31, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, 200 ft west of dry land, 0.5 mi west of Myakka City-Wauchula Road, and 4.0 mi north of Myakka City.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--March to September 1999 (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 CURRENT PERIOD.--Maximum gage height, 41.52 ft, Aug. 25; minimum, 39.44 ft, May 19, 20, 21.

GAGE HEIGHT, FEET, PERIOD MARCH TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	40.28	40.17	39.79	40.42	41.04	40.90	41.00
2	---	---	---	---	---	40.26	40.17	39.77	40.41	40.99	40.87	41.06
3	---	---	---	---	---	40.27	40.15	39.74	40.41	41.09	40.82	41.10
4	---	---	---	---	---	40.27	40.14	39.71	40.39	41.13	40.78	41.05
5	---	---	---	---	---	40.25	40.13	39.67	40.37	40.98	40.82	40.97
6	---	---	---	---	---	40.24	40.11	39.64	40.38	40.80	40.96	40.90
7	---	---	---	---	---	40.23	40.09	39.61	40.37	40.69	41.13	40.85
8	---	---	---	---	---	40.21	40.07	39.59	40.38	40.62	41.33	40.81
9	---	---	---	---	---	40.20	40.05	39.62	40.37	40.55	41.29	40.77
10	---	---	---	---	---	40.19	40.03	39.67	40.35	40.52	41.14	40.72
11	---	---	---	---	---	40.18	40.01	39.62	40.31	40.48	41.01	40.68
12	---	---	---	---	---	40.17	39.99	39.64	40.28	40.47	41.00	40.65
13	---	---	---	---	---	40.16	39.96	39.68	40.27	40.51	41.01	40.63
14	---	---	---	---	---	40.18	39.94	39.64	40.34	40.57	40.93	40.62
15	---	---	---	---	---	40.23	39.91	39.60	40.43	40.58	40.85	40.62
16	---	---	---	---	---	40.26	39.89	39.56	40.58	40.53	40.78	40.60
17	---	---	---	---	---	40.28	39.91	39.51	40.74	40.50	40.74	40.58
18	---	---	---	---	---	40.30	39.92	39.48	41.27	40.47	40.70	40.57
19	---	---	---	---	---	40.31	39.90	39.46	41.51	40.45	40.67	40.56
20	---	---	---	---	---	40.31	39.87	39.44	41.37	40.43	40.66	40.59
21	---	---	---	---	---	40.31	39.84	39.46	41.11	40.42	40.67	40.60
22	---	---	---	---	---	40.29	39.82	39.47	40.93	40.40	40.74	40.61
23	---	---	---	---	---	40.28	39.79	39.46	40.81	40.41	40.85	40.65
24	---	---	---	---	---	40.26	39.77	39.45	40.78	40.45	41.35	40.69
25	---	---	---	---	---	40.25	39.74	39.45	40.81	40.50	41.49	40.69
26	---	---	---	---	---	40.24	39.71	39.45	40.88	40.51	41.40	40.68
27	---	---	---	---	---	40.23	39.68	39.45	40.89	40.51	41.25	40.68
28	---	---	---	---	---	40.22	39.67	39.45	40.97	40.50	41.14	41.03
29	---	---	---	---	---	40.21	39.78	39.53	41.04	40.56	41.03	41.38
30	---	---	---	---	---	40.19	39.80	40.28	41.07	40.82	40.97	41.35
31	---	---	---	---	---	40.18	---	40.41	---	40.90	40.95	---
MEAN	---	---	---	---	---	40.24	39.93	39.62	40.67	40.63	40.98	40.79
MAX	---	---	---	---	---	40.31	40.17	40.41	41.51	41.13	41.49	41.38
MIN	---	---	---	---	---	40.16	39.67	39.44	40.27	40.40	40.66	40.56

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°23'03", long 82°07'48", in SW$^1/_4$ sec.32, T.35 S., R.22 E., Manatee County, Hydrologic Unit 03100102, 0.5 mi east of Myakka City-Wauchula Road, on right bank about 1.0 mi east of confluence with Myakka River, and 3.5 mi north of Myakka City.
DRAINAGE AREA.--3.93 mi^2.
PERIOD OF RECORD.--January to September 1999.
GAGE.--Water-stage recorder. Datum of gage has not been determined.
REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD JANUARY TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	e4.9	3.9	1.5	1.3	.88	19	34	3.3	20
2	---	---	---	e5.0	3.0	1.2	1.0	.66	8.9	27	2.0	10
3	---	---	---	e5.2	3.5	1.5	.82	.60	16	19	1.3	5.6
4	---	---	---	e5.4	2.8	1.6	.35	.40	14	24	2.5	3.3
5	---	---	---	5.3	2.5	1.1	.07	.26	8.9	16	10	2.1
6	---	---	---	4.9	2.1	.77	.00	.23	5.5	9.7	20	1.6
7	---	---	---	5.0	2.1	.65	.00	.29	3.8	9.0	21	1.7
8	---	---	---	4.7	2.3	.68	.00	.44	3.9	7.3	18	1.8
9	---	---	---	4.8	1.8	.73	.00	1.1	4.8	5.6	11	1.7
10	---	---	---	7.2	1.6	.91	.00	2.6	3.9	4.4	8.6	1.3
11	---	---	---	5.3	1.9	.87	.03	1.4	2.7	3.3	6.9	1.2
12	---	---	---	3.7	1.8	.57	.12	1.3	1.8	3.0	12	4.1
13	---	---	---	3.0	1.5	.29	.16	1.6	3.0	2.9	15	3.6
14	---	---	---	2.5	1.3	.39	.25	.98	26	2.5	7.8	2.7
15	---	---	---	2.2	1.8	1.7	.26	.62	16	2.5	4.6	4.7
16	---	---	---	2.0	1.7	1.5	.09	.37	12	2.3	2.9	3.5
17	---	---	---	1.9	1.5	1.1	.01	.22	48	2.2	2.3	2.6
18	---	---	---	1.7	1.2	.83	.00	.11	64	2.3	3.1	2.8
19	---	---	---	1.6	1.0	.65	.00	.02	32	2.0	3.4	4.1
20	---	---	---	1.5	1.1	.54	.00	.01	19	1.6	4.2	11
21	---	---	---	1.6	1.3	.54	.00	.16	12	1.1	5.0	12
22	---	---	---	1.6	1.5	.58	.07	.53	8.7	2.1	9.5	7.8
23	---	---	---	1.6	2.4	.62	.15	.42	6.8	5.5	11	4.8
24	---	---	---	26	2.7	.56	.03	.51	20	3.5	8.6	3.8
25	---	---	---	16	2.0	.51	.00	.43	22	2.2	10	3.3
26	---	---	---	8.2	1.8	.52	.00	.43	34	1.4	12	3.6
27	---	---	---	5.9	1.7	.28	.00	.31	18	1.1	6.0	9.2
28	---	---	---	4.6	1.7	.13	.09	.14	33	1.6	5.5	58
29	---	---	---	3.9	---	.52	1.8	1.5	23	1.2	4.0	27
30	---	---	---	4.5	---	1.4	1.1	26	27	3.7	2.4	12
31	---	---	---	5.6	---	1.6	---	35	---	6.0	7.6	---
TOTAL	---	---	---	157.3	55.5	26.34	7.70	79.52	517.7	210.0	241.5	230.9
MEAN	---	---	---	5.07	1.98	.85	.26	2.57	17.3	6.77	7.79	7.70
MAX	---	---	---	26	3.9	1.7	1.8	35	64	34	21	58
MIN	---	---	---	1.5	1.0	.13	.00	.01	1.8	1.1	1.3	1.2
CFSM	---	---	---	1.29	.50	.22	.07	.65	4.39	1.72	1.98	1.96
IN.	---	---	---	1.49	.53	.25	.07	.75	4.90	1.99	2.29	2.19

e Estimated

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

MEAN	---	---	---	5.07	1.98	.85	.26	2.57	17.3	6.77	7.79	7.70
MAX	---	---	---	5.07	1.98	.85	.26	2.57	17.3	6.77	7.79	7.70
(WY)	---	---	---	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	---	---	---	5.07	1.98	.85	.26	2.57	17.3	6.77	7.79	7.70
(WY)	---	---	---	1999	1999	1999	1999	1999	1999	1999	1999	1999

02298495 MAPLE CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, PERIOD JANUARY TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	41.87	41.52	41.47	41.18	42.67	43.13	41.64	42.71
2	---	---	---	---	41.78	41.46	41.40	41.08	42.09	42.96	41.43	42.19
3	---	---	---	---	41.84	41.53	41.33	41.04	42.55	42.67	41.29	41.78
4	---	---	---	---	41.76	41.54	41.16	40.93	42.47	42.85	41.45	41.49
5	---	---	---	42.00	41.72	41.45	40.99	40.84	42.09	42.52	42.22	41.31
6	---	---	---	41.97	41.66	41.34	40.86	40.82	41.78	42.17	42.75	41.21
7	---	---	---	41.98	41.66	41.31	40.75	40.87	41.58	42.12	42.77	41.23
8	---	---	---	41.96	41.69	41.32	40.64	40.96	41.59	41.99	42.65	41.25
9	---	---	---	41.96	41.60	41.34	40.55	41.22	41.70	41.83	42.22	41.23
10	---	---	---	42.15	41.56	41.39	40.49	41.70	41.59	41.70	42.06	41.14
11	---	---	---	42.00	41.62	41.38	40.86	41.39	41.42	41.56	41.91	41.13
12	---	---	---	41.86	41.60	41.28	40.98	41.33	41.27	41.53	42.27	41.60
13	---	---	---	41.78	41.53	41.17	41.00	41.44	41.37	41.52	42.50	41.54
14	---	---	---	41.73	41.49	41.20	41.06	41.22	42.92	41.47	41.98	41.40
15	---	---	---	41.67	41.59	41.57	41.06	41.05	42.51	41.47	41.66	41.68
16	---	---	---	41.64	41.57	41.53	40.93	40.92	42.26	41.44	41.45	41.53
17	---	---	---	41.60	41.54	41.43	40.84	40.81	43.19	41.44	41.35	41.40
18	---	---	---	41.57	41.46	41.36	40.81	40.72	43.61	41.45	41.47	41.42
19	---	---	---	41.54	41.42	41.31	40.65	40.62	43.08	41.42	41.51	41.60
20	---	---	---	41.54	41.44	41.27	40.54	40.57	42.67	41.34	41.62	42.21
21	---	---	---	41.56	41.48	41.27	40.64	40.75	42.29	41.23	41.68	42.30
22	---	---	---	41.55	41.53	41.29	40.94	41.01	42.07	41.40	42.13	41.98
23	---	---	---	41.54	41.70	41.30	40.99	40.95	41.91	41.90	42.27	41.68
24	---	---	---	42.90	41.75	41.28	40.88	41.00	42.71	41.67	42.05	41.57
25	---	---	---	42.60	41.63	41.26	40.71	40.96	42.75	41.46	42.19	41.50
26	---	---	---	42.21	41.59	41.26	40.56	40.96	43.14	41.30	42.32	41.52
27	---	---	---	42.05	41.56	41.17	40.45	40.88	42.65	41.23	41.82	42.06
28	---	---	---	41.95	41.57	41.09	40.72	40.75	43.13	41.35	41.77	43.54
29	---	---	---	41.88	---	41.25	41.50	40.92	42.81	41.27	41.59	42.93
30	---	---	---	41.93	---	41.51	41.29	42.94	42.92	41.58	41.37	42.24
31	---	---	---	42.03	---	41.55	---	43.15	---	41.94	41.71	---
MEAN	---	---	---	---	41.61	41.35	40.90	41.13	42.36	41.77	41.91	41.75
MAX	---	---	---	---	41.87	41.57	41.50	43.15	43.61	43.13	42.77	43.54
MIN	---	---	---	---	41.42	41.09	40.45	40.57	41.27	41.23	41.29	41.13

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

LOCATION.--Lat 27°24'12", long 82°10'55", in SW$^1/_4$ sec.26, T.35 S., R.21 E., Manatee County, Hydrologic Unit 03100102, 0.2 mi east of confluence of Ogleby and Boggy Creek, 3.3 mi north of State Highway 70, and 4.0 mi northwest of Myakka City.
DRAINAGE AREA.--8.71 mi^2.
PERIOD OF RECORD.--January to September 1999.
GAGE.--Water-stage recorder. Datum of gage has not been determined.
REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD JANUARY TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	2.2	16	1.8	1.1	.17	25	144	11	81
2	---	---	---	2.7	13	1.7	1.0	.26	18	165	12	67
3	---	---	---	16	12	2.2	1.0	.32	30	170	11	54
4	---	---	---	12	9.8	2.9	.78	.03	45	149	10	43
5	---	---	---	8.7	8.0	2.3	.55	.00	42	120	17	35
6	---	---	---	7.8	6.5	1.9	.45	.00	46	98	76	29
7	---	---	---	6.8	5.7	1.5	.66	.00	51	85	170	26
8	---	---	---	6.7	4.7	1.3	.65	.00	50	83	115	24
9	---	---	---	6.3	4.5	1.6	.44	1.7	49	90	89	21
10	---	---	---	7.6	4.4	1.7	.30	9.4	45	156	77	18
11	---	---	---	7.2	3.5	2.0	.25	3.7	39	163	68	15
12	---	---	---	7.5	2.8	2.0	.07	7.7	33	134	70	13
13	---	---	---	8.7	2.5	1.9	.00	26	30	106	67	11
14	---	---	---	12	2.3	3.3	.00	14	81	94	51	9.8
15	---	---	---	10	2.2	4.1	.00	6.7	68	139	40	11
16	---	---	---	9.1	2.0	2.7	.00	3.6	71	112	32	9.3
17	---	---	---	9.8	1.8	2.0	.00	2.1	118	86	34	7.6
18	---	---	---	8.5	1.6	1.6	.00	1.3	307	73	63	7.8
19	---	---	---	9.0	1.7	1.8	.00	.95	209	61	91	e11
20	---	---	---	7.2	2.0	2.6	.00	.90	131	52	119	23
21	---	---	---	5.7	2.0	3.2	.00	.77	95	47	133	34
22	---	---	---	4.8	1.9	2.5	.00	1.7	79	36	166	43
23	---	---	---	7.0	1.9	2.1	.00	3.6	73	28	594	39
24	---	---	---	48	1.7	2.0	.00	3.0	113	22	434	31
25	---	---	---	33	1.9	2.3	.00	2.1	81	17	272	25
26	---	---	---	28	2.1	3.4	.00	1.4	70	13	260	27
27	---	---	---	27	1.9	5.3	.00	.89	89	11	203	32
28	---	---	---	25	1.7	3.2	.00	.44	100	12	155	193
29	---	---	---	23	---	2.3	.00	1.1	80	11	128	103
30	---	---	---	26	---	1.8	.05	12	139	11	103	69
31	---	---	---	21	---	1.3	---	40	---	11	87	---
TOTAL	---	---	---	414.3	122.1	72.3	7.30	145.83	2407	2499	3758	1112.5
MEAN	---	---	---	13.4	4.36	2.33	.24	4.70	80.2	80.6	121	37.1
MAX	---	---	---	48	16	5.3	1.1	40	307	170	594	193
MIN	---	---	---	2.2	1.6	1.3	.00	.00	18	11	10	7.6
CFSM	---	---	---	1.53	.50	.27	.03	.54	9.21	9.26	13.9	4.26
IN.	---	---	---	1.77	.52	.31	.03	.62	10.28	10.67	16.05	4.75

e Estimated

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

MEAN	---	---	---	13.4	4.36	2.33	.24	4.70	80.2	80.6	121	37.1
MAX	---	---	---	13.4	4.36	2.33	.24	4.70	80.2	80.6	121	37.1
(WY)	---	---	---	1999	1999	1999	1999	1999	1999	1999	1999	1999
MIN	---	---	---	13.4	4.36	2.33	.24	4.70	80.2	80.6	121	37.1
(WY)	---	---	---	1999	1999	1999	1999	1999	1999	1999	1999	1999

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

GAGE HEIGHT, FEET, SECOND, PERIOD JANUARY TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	42.38	43.38	42.57	42.40	42.20	43.57	44.97	43.26	44.46
2	---	---	---	42.43	43.28	42.56	42.38	42.22	43.38	45.07	43.30	44.31
3	---	---	---	43.22	43.20	42.63	42.37	42.23	43.68	45.09	43.26	44.14
4	---	---	---	43.07	43.13	42.70	42.33	42.14	43.98	44.99	43.22	43.96
5	---	---	---	42.91	43.05	42.64	42.29	42.06	43.94	44.80	43.42	43.80
6	---	---	---	42.87	42.97	42.58	42.27	42.00	44.01	44.63	44.29	43.67
7	---	---	---	42.80	42.92	42.52	42.30	41.99	44.08	44.51	45.09	43.61
8	---	---	---	42.79	42.85	42.49	42.30	41.98	44.08	44.49	44.76	43.54
9	---	---	---	42.77	42.83	42.52	42.26	42.26	44.06	44.54	44.55	43.46
10	---	---	---	42.86	42.83	42.55	42.23	43.04	43.98	45.03	44.43	43.37
11	---	---	---	42.83	42.76	42.58	42.22	42.67	43.87	45.06	44.32	43.27
12	---	---	---	42.85	42.69	42.58	42.17	42.81	43.76	44.90	44.34	43.19
13	---	---	---	42.91	42.66	42.56	42.13	43.59	43.68	44.70	44.31	43.12
14	---	---	---	43.10	42.63	42.71	42.09	43.22	44.46	44.59	44.08	43.07
15	---	---	---	42.99	42.63	42.78	42.06	42.90	44.31	44.93	43.89	43.13
16	---	---	---	42.93	42.60	42.66	42.03	42.67	44.35	44.74	43.73	43.04
17	---	---	---	42.98	42.58	42.57	42.04	42.50	44.57	44.52	43.77	42.95
18	---	---	---	42.91	42.54	42.51	42.08	42.39	45.56	44.38	44.26	42.97
19	---	---	---	42.93	42.56	42.53	42.08	42.32	45.25	44.23	44.57	---
20	---	---	---	42.83	42.60	42.64	42.06	42.31	44.87	44.11	44.80	43.50
21	---	---	---	42.73	42.60	42.70	42.02	42.29	44.60	44.03	44.89	43.78
22	---	---	---	42.66	42.59	42.61	41.99	42.44	44.45	43.86	45.05	43.95
23	---	---	---	42.76	42.59	42.57	41.97	42.67	44.38	43.71	46.14	43.87
24	---	---	---	44.04	42.56	42.55	41.95	42.61	44.75	43.57	45.85	43.71
25	---	---	---	43.78	42.58	42.58	41.94	42.50	44.46	43.45	45.47	43.57
26	---	---	---	43.68	42.62	42.68	41.92	42.40	44.35	43.34	45.44	43.61
27	---	---	---	43.66	42.58	42.84	41.94	42.31	44.54	43.24	45.23	43.72
28	---	---	---	43.60	42.56	42.68	41.99	42.23	44.64	43.26	45.02	45.16
29	---	---	---	43.57	---	42.57	42.10	42.30	44.46	43.25	44.86	44.72
30	---	---	---	43.62	---	42.50	42.13	43.14	44.93	43.26	44.67	44.44
31	---	---	---	43.52	---	42.43	---	43.89	---	43.24	44.53	---
MEAN	---	---	---	43.06	42.76	42.60	42.13	42.53	44.30	44.27	44.48	---
MAX	---	---	---	44.04	43.38	42.84	42.40	43.89	45.56	45.09	46.14	---
MIN	---	---	---	42.38	42.54	42.43	41.92	41.98	43.38	43.24	43.22	---

02298530 COKER CREEK CREEK NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°24'34", long 82°10'31", in NE$^1/_4$ sec.26, T.35 S., R.21 E., Manatee County, Hydrologic Unit 03100102, on right bank about 0.25 mi upstream from 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^2.
PERIOD OF RECORD.--April to September 1999.
GAGE.--Water-stage recorder. Datum of gage has not been determined.
REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, PERIOD APRIL TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	3.7	1.8	20	49	21	30
2	---	---	---	---	---	---	3.6	1.6	13	60	17	23
3	---	---	---	---	---	---	3.3	1.8	18	61	14	24
4	---	---	---	---	---	---	3.0	1.3	38	56	17	22
5	---	---	---	---	---	---	2.7	.99	40	40	41	21
6	---	---	---	---	---	---	3.1	1.1	33	30	e94	20
7	---	---	---	---	---	---	4.5	1.0	26	24	e102	22
8	---	---	---	---	---	---	3.4	1.4	21	27	e92	17
9	---	---	---	---	---	---	3.0	14	19	35	74	16
10	---	---	---	---	---	---	3.0	11	16	46	55	15
11	---	---	---	---	---	---	2.6	4.2	13	36	40	12
12	---	---	---	---	---	---	1.9	4.4	10	31	56	12
13	---	---	---	---	---	---	1.6	5.6	13	28	42	11
14	---	---	---	---	---	---	1.5	3.1	35	24	27	13
15	---	---	---	---	---	---	1.4	2.3	26	26	20	13
16	---	---	---	---	---	---	1.3	1.7	50	22	16	10
17	---	---	---	---	---	---	1.4	1.4	53	18	14	8.6
18	---	---	---	---	---	---	1.8	1.4	e97	17	16	11
19	---	---	---	---	---	---	1.6	1.2	e72	15	23	9.9
20	---	---	---	---	---	---	1.4	1.8	e52	14	27	33
21	---	---	---	---	---	---	1.3	1.4	e42	12	25	28
22	---	---	---	---	---	---	1.2	1.4	e38	11	33	17
23	---	---	---	---	---	---	1.2	1.2	e37	11	e86	12
24	---	---	---	---	---	---	1.2	.99	e47	9.8	70	10
25	---	---	---	---	---	---	1.1	.78	e39	8.6	72	10
26	---	---	---	---	---	---	1.1	.69	37	7.7	58	9.9
27	---	---	---	---	---	---	1.0	.56	50	10	48	16
28	---	---	---	---	---	---	.94	.50	74	32	39	85
29	---	---	---	---	---	---	1.0	3.0	50	22	30	87
30	---	---	---	---	---	---	1.4	22	51	24	23	78
31	---	---	---	---	---	---	---	49	---	24	25	---
TOTAL	---	---	---	---	---	---	61.24	144.61	1130	831.1	1317	696.4
MEAN	---	---	---	---	---	---	2.04	4.66	37.7	26.8	42.5	23.2
MAX	---	---	---	---	---	---	4.5	49	97	61	102	87
MIN	---	---	---	---	---	---	.94	.50	10	7.7	14	8.6
CFSM	---	---	---	---	---	---	.31	.71	5.72	4.07	6.45	3.52
IN.	---	---	---	---	---	---	.35	.82	6.38	4.69	7.43	3.93

e Estimated

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

MEAN	---	---	---	---	---	---	2.04	4.66	37.7	26.8	42.5	23.2
MAX	---	---	---	---	---	---	2.04	4.66	37.7	26.8	42.5	23.2
(WY)	---	---	---	---	---	---	1999	1999	1999	1999	1999	1999
MIN	---	---	---	---	---	---	2.04	4.66	37.7	26.8	42.5	23.2
(WY)	---	---	---	---	---	---	1999	1999	1999	1999	1999	1999

02298530 COKER CREEK CREEK NEAR MYAKKA CITY, FL--Continued

GAGE HEIGHT, FEET, PERIOD APRIL TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	52.61	52.42	53.47	54.33	53.52	53.85
2	---	---	---	---	---	---	52.60	52.40	53.21	54.57	53.38	53.65
3	---	---	---	---	---	---	52.57	52.42	53.39	54.62	53.26	53.68
4	---	---	---	---	---	---	52.55	52.36	54.05	54.50	53.33	53.61
5	---	---	---	---	---	---	52.52	52.32	54.09	54.09	54.09	53.57
6	---	---	---	---	---	---	52.55	52.33	53.92	53.82	---	53.52
7	---	---	---	---	---	---	52.67	52.32	53.69	53.64	---	53.59
8	---	---	---	---	---	---	52.59	52.37	53.53	53.73	---	53.43
9	---	---	---	---	---	---	52.54	52.91	53.44	53.93	54.88	53.39
10	---	---	---	---	---	---	52.54	53.08	53.30	54.26	54.48	53.34
11	---	---	---	---	---	---	52.50	52.69	53.18	54.01	54.12	53.18
12	---	---	---	---	---	---	52.43	52.69	53.06	53.85	54.48	53.20
13	---	---	---	---	---	---	52.40	52.78	53.13	53.74	54.17	53.14
14	---	---	---	---	---	---	52.38	52.60	53.93	53.61	53.75	53.22
15	---	---	---	---	---	---	52.37	52.51	53.64	53.69	53.52	53.22
16	---	---	---	---	---	---	52.36	52.45	54.34	53.55	53.36	53.09
17	---	---	---	---	---	---	52.37	52.41	54.35	53.42	53.29	53.02
18	---	---	---	---	---	---	52.42	52.42	---	53.36	53.38	53.13
19	---	---	---	---	---	---	52.39	52.38	---	53.30	53.60	53.08
20	---	---	---	---	---	---	52.37	52.46	---	53.23	53.76	53.92
21	---	---	---	---	---	---	52.36	52.41	---	53.17	53.70	53.79
22	---	---	---	---	---	---	52.35	52.41	---	53.12	53.90	53.40
23	---	---	---	---	---	---	52.35	52,39	---	53.11	---	53.20
24	---	---	---	---	---	---	52.34	52.36	---	53.04	54.80	53.09
25	---	---	---	---	---	---	52.33	52.33	---	52.97	54.85	53.10
26	---	---	---	---	---	---	52.33	52.32	54.02	52.92	54.55	53.09
27	---	---	---	---	---	---	52.32	52.29	54.34	53.01	54.31	53.29
28	---	---	---	---	---	---	52.31	52.28	54.88	53.87	54.09	55.11
29	---	---	---	---	---	---	52.33	52.45	54.36	53.58	53.85	55.15
30	---	---	---	---	---	---	52.37	53.42	54.37	53.63	53.64	54.97
31	---	---	---	---	---	---	---	54.28	---	53.64	53.66	---
MEAN	---	---	---	---	---	---	52.44	52.56	---	53.66	---	53.53
MAX	---	---	---	---	---	---	52.67	54.28	---	54.62	---	55.15
MIN	---	---	---	---	---	---	52.31	52.28	---	52.92	---	53.02

02298608 MYAKKA RIVER AT MYAKKA CITY, FL

LOCATION.--Lat 27°20'36", long 82°09'25", 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^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1963 to September 1966; October 1977 to current year.
GAGE.--Water-stage recorder. 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 good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	679	46	61	21	88	23	11	4.2	158	532	117	334
2	534	43	58	23	82	22	10	3.2	158	570	137	336
3	457	41	55	64	77	22	9.3	e1.8	175	579	125	303
4	405	43	52	86	71	24	8.4	e1.2	162	698	111	262
5	351	301	49	81	66	21	7.5	e.95	133	709	114	222
6	296	518	47	72	62	20	6.9	e1.1	117	571	173	179
7	263	473	44	70	58	19	6.2	e.76	112	467	300	148
8	206	437	41	68	55	18	5.6	e.70	115	393	504	124
9	159	376	38	65	52	17	5.3	e2.3	123	317	602	108
10	126	307	35	66	50	15	4.9	e6.7	114	280	558	91
11	105	240	33	62	47	14	4.6	4.9	100	266	451	80
12	93	189	33	56	44	13	4.1	4.7	86	271	375	95
13	143	153	32	51	41	12	3.6	9.5	75	287	352	80
14	141	126	34	47	37	12	2.7	9.3	85	298	332	64
15	206	108	32	44	34	20	e2.2	10	122	291	272	69
16	306	94	30	42	32	20	e1.9	8.4	188	257	198	63
17	332	84	28	41	31	18	e2.1	6.5	345	234	177	53
18	307	76	27	40	30	17	e2.5	5.3	584	219	258	48
19	263	68	27	39	29	17	e2.6	4.0	969	188	191	52
20	215	63	26	38	28	17	e2.4	3.3	1090	153	137	87
21	212	59	25	36	26	17	e2.3	5.3	861	122	159	161
22	344	59	24	34	26	16	e1.9	14	620	113	305	151
23	252	60	23	33	25	15	e2.0	11	475	146	413	116
24	168	65	22	122	25	15	e2.3	e7.8	423	118	503	98
25	117	72	21	204	24	14	e2.4	6.0	395	91	780	88
26	92	83	21	195	23	14	e2.3	4.4	420	73	811	83
27	77	80	21	185	23	13	e2.2	3.9	417	61	664	85
28	67	74	20	156	22	12	e2.0	3.7	434	53	596	314
29	60	69	21	126	---	11	e2.9	3.7	497	49	502	540
30	54	65	23	107	---	11	3.9	39	502	47	403	610
31	50	---	22	95	---	11	---	103	---	63	329	---
TOTAL	7080	4472	1025	2369	1208	510	128.0	290.61	10055	8516	10949	5044
MEAN	228	149	33.1	76.4	43.1	16.5	4.27	9.37	335	275	353	168
MAX	679	518	61	204	88	24	11	103	1090	709	811	610
MIN	50	41	20	21	22	11	1.9	.70	75	47	111	48
CFSM	1.83	1.19	.26	.61	.35	.13	.03	.07	2.68	2.20	2.83	1.35
IN.	2.11	1.33	.31	.71	.36	.15	.04	.09	2.99	2.53	3.26	1.50

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	141	77.8	65.1	92.6	109	135	64.7	28.0	184	233	335	338
MAX	392	840	658	510	839	820	360	166	1013	737	897	1045
(WY)	1983	1998	1998	1998	1998	1998	1993	1991	1992	1965	1995	1994
MIN	1.06	3.40	3.31	4.65	9.28	8.47	2.43	.067	2.40	20.9	20.8	5.72
(WY)	1985	1965	1986	1985	1985	1985	1965	1985	1998	1981	1980	1984

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	108668.78		51646.61			
ANNUAL MEAN	298		141		150	
HIGHEST ANNUAL MEAN					404	1998
LOWEST ANNUAL MEAN					49.1	1980
HIGHEST DAILY MEAN	5620	Mar 21	1090	Jun 20	9250	Jun 27 1992
LOWEST DAILY MEAN	.23	Jun 23	.70	May 8	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.35	Jun 18	1.3	May 3	.00	May 25 1964
INSTANTANEOUS PEAK FLOW			1160	Jun 20	12800	Jun 26 1992
INSTANTANEOUS PEAK STAGE			11.27	Jun 20	17.23	Jun 26 1992
ANNUAL RUNOFF (CFSM)	2.38		1.13		1.20	
ANNUAL RUNOFF (INCHES)	32.34		15.37		16.35	
10 PERCENT EXCEEDS	606		418		390	
50 PERCENT EXCEEDS	94		65		44	
90 PERCENT EXCEEDS	2.8		4.8		5.2	

02298608 MYAKKA RIVER AT MYAKKA CITY, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963-66, 1976-83, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
19...	0905	5.68	69	274	5.60	21.0	5.1
JAN							
11...	0940	5.41	63	381	6.46	10.5	8.5
MAY							
05...	1035	2.83	.95	450	6.72	23.6	5.1
JUN							
08...	0930	6.31	114	563	7.27	25.3	3.8
AUG							
10...	0906	10.03	577	243	5.39	27.0	3.4
SEP							
28...	0850	8.16	259	215	5.98	25.3	3.7

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
19...	.01	.09	.08	.68	.26	.23
JAN						
11...	<.01	.05	.05	.59	.22	.23
MAY						
05...	.01	<.02	.05	.88	.25	.23
JUN						
08...	<.01	<.02	.03	.82	.39	.39
AUG						
10...	<.01	.02	.03	.81	.48	.45
SEP						
28...	.02	.10	.10	.98	.43	.38

02298830 MYAKKA RIVER NEAR SARASOTA, FL

LOCATION.--Lat 27°14'25", long 82°18'50", in SW$^1/_4$ 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^2.

WATER-DISCHARGE RECORDS

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 recorder. 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. Records include flow from Vanderipe Slough at extreme high stages. Maximum discharge, 1,620 ft^3/s, Oct. 1, gage height 8.45 ft, occurred on recession following peak of Sept. 28, 1998; maximum independent peak discharge, 1,460 ft^3/s, Aug. 28, gage height 8.30 ft.
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, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	323	180	11	240	33	25	4.2	1.4	460	213	976
2	1410	305	170	9.8	226	31	24	3.6	1.2	479	200	858
3	1240	288	158	15	211	32	24	3.1	1.8	497	190	751
4	1080	282	148	13	195	32	24	2.8	5.3	504	189	666
5	936	350	138	12	179	31	22	2.5	9.4	512	190	618
6	821	396	129	12	161	31	21	2.3	13	524	193	581
7	734	459	120	14	145	31	20	1.9	17	535	207	552
8	655	509	110	15	130	31	19	1.7	35	539	237	529
9	616	530	101	18	117	29	18	1.5	49	537	275	511
10	580	530	94	20	105	29	17	1.3	56	522	316	490
11	547	520	87	20	95	29	17	1.1	61	505	346	466
12	518	506	80	24	86	29	16	1.0	65	494	374	445
13	505	486	74	30	77	29	14	.95	72	472	389	425
14	512	466	71	35	62	31	14	.71	77	451	390	410
15	522	444	65	40	54	32	13	.59	83	458	383	397
16	517	423	60	45	50	30	12	.41	86	457	373	385
17	507	403	55	44	48	29	12	.23	99	453	373	374
18	497	382	52	43	45	29	11	.10	117	440	425	367
19	489	363	49	44	44	28	10	.40	128	425	610	365
20	480	344	47	41	43	28	9.6	1.3	146	412	724	394
21	474	325	45	39	42	28	9.3	1.6	184	393	775	454
22	469	307	43	38	41	28	8.6	1.5	262	375	752	512
23	458	286	41	35	40	27	7.9	1.7	349	359	799	539
24	449	268	38	91	37	26	7.6	2.0	409	341	918	536
25	443	250	35	141	36	26	7.1	2.2	437	324	1070	523
26	431	234	33	188	35	26	6.5	2.2	445	308	1260	510
27	416	220	30	224	34	27	5.9	2.0	451	292	1300	495
28	397	209	27	246	34	26	5.4	1.8	455	275	1430	485
29	379	200	24	256	---	26	4.9	1.6	456	257	1330	493
30	361	190	16	257	---	26	4.6	1.5	456	243	1180	514
31	341	---	12	251	---	25	---	1.6	---	228	1080	---
TOTAL	19334	10798	2332	2271.8	2612	895	410.4	51.39	5027.1	13071	18491	15621
MEAN	624	360	75.2	73.3	93.3	28.9	13.7	1.66	168	422	596	521
MAX	1550	530	180	257	240	33	25	4.2	456	539	1430	976
MIN	341	190	12	9.8	34	25	4.6	.10	1.2	228	189	365
CFSM	2.72	1.57	.33	.32	.41	.13	.06	.01	.73	1.84	2.60	2.27
IN.	3.14	1.75	.38	.37	.42	.15	.07	.01	.82	2.12	3.00	2.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1999, BY WATER YEAR (WY)

MEAN	387	110	78.9	115	131	168	97.7	39.5	178	424	621	684
MAX	1325	1080	1074	811	1286	1351	601	258	1277	1625	2032	2467
(WY)	1949	1998	1998	1998	1998	1998	1993	1991	1982	1947	1949	1947
MIN	7.09	.66	.10	.15	.000	.000	.000	.000	.000	5.21	45.8	15.7
(WY)	1975	1975	1943	1943	1943	1939	1938	1938	1944	1955	1942	1938

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1937 - 1999	
ANNUAL TOTAL	172061.8		90914.69			
ANNUAL MEAN	471		249		254	
HIGHEST ANNUAL MEAN					606	1998
LOWEST ANNUAL MEAN					73.1	1956
HIGHEST DAILY MEAN	4900	Mar 22	1550	Oct 1	8680	Jun 29 1992
LOWEST DAILY MEAN	2.3	Jun 20	.10	May 18	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	2.6	Jun 18	.48	May 13	.00	Mar 28 1938
INSTANTANEOUS PEAK FLOW			1620	Oct 1	8680	Jun 29 1992
INSTANTANEOUS PEAK STAGE			8.45	Oct 1	11.73	Jun 29 1992
ANNUAL RUNOFF (CFSM)	2.06		1.09		1.11	
ANNUAL RUNOFF (INCHES)	27.95		14.77		15.04	
10 PERCENT EXCEEDS	1050		532		681	
50 PERCENT EXCEEDS	234		138		80	
90 PERCENT EXCEEDS	6.6		5.1		.80	

02298830 MYAKKA RIVER NEAR SARASOTA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
18...	0855	5.99	403	228	5.70	22.0	--	2.5	--	--	--	--
JAN												
06...	0930	2.23	12	311	6.46	7.0	120	9.4	26	12	10	3.8
MAY												
05...	0910	1.42	2.5	584	6.72	26.0	60	4.7	55	24	18	8.0
JUN												
02...	0835	1.33	1.2	684	8.49	27.4	--	6.8	--	--	--	--
AUG												
11...	0900	6.38	344	234	6.14	29.1	160	--	20	8.8	8.5	4.6
SEP												
29...	0835	6.59	491	198	6.34	27.3	240	.5	17	7.3	7.7	3.7

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV											
18...	--	--	--	--	--	<.01	.02	.06	.90	.43	.39
JAN											
06...	78	15	.20	2.8	227	.01	.03	.14	1.1	.18	.18
MAY											
05...	200	26	.31	4.5	470	.01	<.02	.05	1.3	.37	.32
JUN											
02...	--	--	--	--	--	<.01	<.02	.03	2.6	.47	.39
AUG											
11...	48	12	.21	9.2	181	<.01	<.02	.04	.99	.51	.45
SEP											
29...	37	12	.20	8.1	179	<.01	.03	.07	1.2	.48	.42

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN											
06...	66	<1.0	<1.0	<1.0	<1.0	111	<1	<.1	<1.0	1100	2.1
MAY											
05...	95	1.4	<1.0	<1.0	<1.0	50	<1	<.1	1.0	2500	1.4
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	48	1.1	<1.0	<1.0	<1.0	235	<1	<.1	<1.0	900	2.1
SEP											
29...	73	1.1	<1.0	<1.0	1.2	321	<1	<.1	1.2	650	2.2

02298928 TRIBUTARY TO MYAKKA RIVER NEAR VENICE, FL

LOCATION.--Lat 27°27'07", long 82°20'37", in SE$^1/_4$ sec.31, T.38 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, on upstream side of culverts, 5.4 mi east of U.S. 41 at Venice, 7.1 mi northwest of North Port at Warm Mineral Springs corporate boundary at U.S. Highway 41, and 11.1 mi northwest of North Port Charlotte.

DRAINAGE AREA.--0.2 mi^2, approximately.

PERIOD OF RECORD.--October 1993 to current year. Prior to October 1995, published as Unnamed Tributary to Myakka River near North Port Charlotte.

GAGE.--Water-stage recorder. Datum of gage is 4.66 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	1.3	1.6	.19	5.2	.00	.00	.00	.00	.44	1.5	14
2	17	1.1	1.3	.15	4.8	.00	.00	.00	.00	1.5	1.2	15
3	14	.95	1.2	.54	4.6	.00	.00	.00	.00	8.8	1.1	13
4	12	2.2	1.0	.57	4.2	.00	.00	.00	.00	29	.95	10
5	9.8	66	.87	.53	3.9	.00	.00	.00	.00	29	1.7	8.0
6	8.3	51	.72	.49	3.6	.00	.00	.00	.00	19	2.3	6.6
7	6.9	29	.69	.46	3.3	.00	.00	.00	.00	11	3.4	5.9
8	5.8	22	.64	.41	3.1	.00	.00	.00	.00	7.5	2.7	8.4
9	5.0	18	.61	.38	2.9	.00	.00	.00	.00	7.2	3.7	14
10	4.4	15	.56	.39	2.8	.00	.00	.00	.00	5.0	7.5	12
11	3.7	13	.53	.36	2.6	.00	.00	.00	.00	3.6	8.1	8.8
12	4.2	11	.56	.31	2.4	.00	.00	.00	.00	4.4	13	7.4
13	15	10	.61	.26	2.2	.00	.00	.00	.00	8.8	16	5.9
14	12	9.0	.87	.22	2.0	.00	.00	.00	.00	11	14	5.0
15	9.5	7.8	.75	.17	1.8	.00	.00	.00	.00	35	12	5.7
16	7.3	6.8	.69	.15	1.6	.00	.00	.00	.00	37	11	4.9
17	5.8	5.9	.64	.12	1.4	.00	.00	.00	.17	27	17	4.9
18	4.5	5.2	.57	.10	1.2	.00	e.00	.00	3.0	21	25	8.3
19	3.6	4.5	.56	.09	1.1	.00	e.00	.00	4.3	20	24	9.1
20	2.8	4.0	.55	.09	.82	.00	e.00	.00	2.2	15	18	49
21	6.3	3.8	.54	.06	.53	.00	e.00	.00	1.2	11	16	102
22	14	3.9	.51	.03	.46	.00	.00	.00	.74	8.7	17	61
23	9.8	3.7	.46	.02	.27	.00	.00	.00	.42	7.2	22	44
24	7.2	3.4	.43	12	.17	.00	.00	.00	.43	6.0	32	37
25	5.6	3.1	.40	8.9	.09	.00	.00	.00	.54	5.0	30	31
26	4.5	3.0	.34	8.4	.04	.00	.00	.00	2.1	4.2	28	27
27	3.7	2.7	.32	7.4	.00	.00	.00	.00	3.0	3.5	26	25
28	3.0	2.3	.31	6.9	.00	.00	.00	.00	2.0	2.9	34	27
29	2.5	2.0	.30	6.4	---	e.00	.00	.00	1.2	2.4	25	26
30	2.0	1.8	.30	6.0	---	e.00	.00	.00	.72	2.1	19	22
31	1.6	---	.24	5.6	---	e.00	---	.00	---	1.8	15	---
TOTAL	232.8	313.45	19.67	67.69	57.08	0.00	0.00	0.00	22.02	356.04	448.15	617.9
MEAN	7.51	10.4	.63	2.18	2.04	.000	.000	.000	.73	11.5	14.5	20.6
MAX	21	66	1.6	12	5.2	.00	.00	.00	4.3	37	34	102
MIN	1.6	.95	.24	.02	.00	.00	.00	.00	.00	.44	.95	4.9

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	17.3	16.7	5.18	4.83	17.2	23.6	.68	.030	.99	9.90	20.1	31.0
MAX	37.9	77.4	29.2	22.3	100	140	3.89	.12	5.21	40.5	46.9	68.8
(WY)	1996	1998	1998	1998	1998	1998	1998	1996	1995	1995	1995	1994
MIN	3.61	.10	.000	.000	.000	.000	.000	.000	.000	.000	2.69	6.58
(WY)	1994	1997	1997	1997	1997	1994	1994	1994	1994	1998	1998	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	9425.73		2134.80			
ANNUAL MEAN	25.8		5.85		12.3	
HIGHEST ANNUAL MEAN					34.5	1998
LOWEST ANNUAL MEAN					4.35	1997
HIGHEST DAILY MEAN	696	Mar 24	102	Sep 21	696	Mar 24 1998
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 7	.00	Feb 27	.00	Dec 8 1993
INSTANTANEOUS PEAK FLOW			112	Sep 21	704	Mar 24 1998
INSTANTANEOUS PEAK STAGE			3.79	Sep 21	7.25	Mar 24 1998
10 PERCENT EXCEEDS	34		17		24	
50 PERCENT EXCEEDS	2.8		1.2		.70	
90 PERCENT EXCEEDS	.00		.00		.00	

02299060 DEER PRAIRIE SLOUGH NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°10'33", long 82°12'42", in NE$^1/_4$ sec.16, T.38 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, near center of span on downstream side of wooden bridge, 1.3 mi south of State Highway 72, 7.2 mi upstream from mouth, and 12.4 mi south of Myakka City.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--October 1983 to September 1992 (miscellaneous discharge measurements only); October 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.93 ft above National Geodetic Vertical Datum of 1929 (Sarasota County Department of Natural Resources bench mark). Prior to November 1994, nonrecording gage at same site and datum.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	1.3	1.9	.29	1.1	.07	.00	e.00	.00	.57	7.0	56
2	38	1.1	1.7	.27	1.0	.07	.00	e.00	.00	.57	6.7	52
3	35	1.0	1.5	.47	.93	.07	.00	e.00	.00	.93	6.3	45
4	32	1.3	1.4	.47	.90	.07	.00	e.00	.00	3.1	5.8	39
5	29	9.6	1.2	.45	.87	.06	.00	.00	.00	2.8	5.5	34
6	26	14	1.1	.42	.83	.06	.00	.00	.00	2.1	6.0	30
7	28	17	1.0	.41	.82	.05	.00	.00	.00	2.6	6.9	27
8	27	18	.90	.39	.80	.04	.00	.00	.00	7.7	7.8	25
9	25	18	.82	.39	.75	.03	.00	.00	.00	11	15	23
10	23	17	.74	.40	.71	.03	.00	.00	.00	12	22	20
11	21	15	.68	.38	.67	.02	.00	.00	.00	12	23	19
12	19	14	.62	.36	.64	.02	.00	.00	.00	11	26	20
13	19	14	.67	.33	.58	.02	.00	.00	.00	10	26	18
14	18	13	.95	.31	.52	.04	.00	.00	.00	11	23	16
15	16	12	.94	.29	.48	.07	.00	.00	.00	22	21	16
16	14	11	.85	.28	.44	.05	.00	.00	.00	30	19	14
17	12	10	.78	.26	.40	.04	.00	.00	.02	28	19	12
18	10	9.4	.72	.23	.37	.03	.00	.00	.19	26	23	12
19	8.2	8.5	.67	.21	.33	.02	.00	.00	.23	23	26	11
20	6.8	7.6	.64	.19	.30	.02	.00	.00	.19	20	25	15
21	6.5	6.8	.60	.17	.27	.02	.00	.00	.19	17	23	23
22	7.6	6.1	.57	.14	.24	.01	.00	.00	.18	15	23	26
23	6.7	5.4	.51	.13	.21	.01	.00	.00	.19	14	33	26
24	5.5	4.8	.47	1.0	.18	.01	.00	.00	.37	12	45	25
25	4.5	4.2	.43	1.2	.15	.01	.00	.00	.93	10	51	25
26	3.7	3.7	.39	1.2	.13	.01	.00	.00	2.0	8.9	59	25
27	3.0	3.2	.36	1.3	.11	.01	.00	.00	2.9	7.5	64	25
28	2.5	2.8	.34	1.3	.09	.01	e.00	.00	2.0	6.3	76	31
29	2.1	2.5	.34	1.3	---	.01	e.00	.00	1.3	5.2	76	35
30	1.7	2.2	.33	1.2	---	.01	e.00	.00	.78	5.4	70	36
31	1.4	---	.31	1.2	---	.00	---	.00	---	6.9	62	---
TOTAL	493.2	254.5	24.43	16.94	14.82	0.99	0.00	0.00	11.47	344.57	902.0	781
MEAN	15.9	8.48	.79	.55	.53	.032	.000	.000	.38	11.1	29.1	26.0
MAX	41	18	1.9	1.3	1.1	.07	.00	.00	2.9	30	76	56
MIN	1.4	1.0	.31	.13	.09	.00	.00	.00	.00	.57	5.5	11
AC-FT	978	505	48	34	29	2.0	.00	.00	23	683	1790	1550

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	18.5	9.93	7.68	5.02	5.63	8.94	1.78	.069	1.11	9.66	22.2	28.4
MAX	45.6	30.4	43.9	26.9	32.0	53.2	10.6	.40	6.29	36.6	46.5	65.7
(WY)	1996	1998	1998	1998	1998	1998	1998	1998	1995	1995	1995	1994
MIN	.010	.000	.000	.000	.000	.000	.000	.000	.000	.071	.71	.006
(WY)	1997	1997	1997	1997	1997	1997	1994	1994	1998	1996	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	5191.17		2843.92			
ANNUAL MEAN	14.2		7.79		9.93	
HIGHEST ANNUAL MEAN					19.5	1998
LOWEST ANNUAL MEAN					3.23	1997
HIGHEST DAILY MEAN	175	Mar 21	76	Aug 28	175	Mar 21 1998
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 23	.00	Mar 31	.00	Feb 13 1994
INSTANTANEOUS PEAK FLOW			77	Aug 28	177	Mar 21 1998
INSTANTANEOUS PEAK STAGE			29.11	Aug 28	29.76	Mar 21 1998
ANNUAL RUNOFF (AC-FT)	10300		5640		7190	
10 PERCENT EXCEEDS	35		25		33	
50 PERCENT EXCEEDS	5.0		.82		.47	
90 PERCENT EXCEEDS	.00		.00		.00	

02299120 DEER PRAIRIE SLOUGH AT POWER LINE NEAR NORTH PORT, FL

LOCATION.--Lat 27°08'06", long 82°15'24", in NE$^1/_4$ sec.36, T.38 S., R.20 E., Sarasota County, Hydrologic Unit 03100102, near center of downstream side of wooden bridge, 2.5 mi north of Interstate 75, 5.4 mi north of North Port Warm Mineral Springs corporate boundary, and 7.3 mi upstream from mouth.

DRAINAGE AREA.--Undetermined.

PERIOD OF RECORD.--October 1993 to current year. Prior to October 1995, published as Deer Prairie Slough near North Port Charlotte.

GAGE.--Water-stage recorder. Datum of gage is 1.73 ft above National Geodetic Vertical Datum of 1929 (Sarasota County Department of Natural Resources bench mark).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	14	13	4.5	8.3	1.3	.23	.00	.00	7.0	10	181
2	116	13	13	4.4	7.7	1.3	.21	.00	.00	13	8.9	178
3	103	12	12	5.5	7.2	1.3	.21	.00	.00	22	7.6	159
4	90	13	11	5.6	6.7	1.3	.21	.00	.00	28	7.5	136
5	77	48	10	5.5	6.3	1.2	.19	.00	.00	29	8.0	116
6	67	62	9.7	5.3	5.9	1.1	.15	.00	.00	28	8.5	96
7	58	65	9.0	5.1	5.5	1.0	.14	.00	.00	25	10	81
8	52	64	8.5	5.0	5.1	.93	.10	.00	.00	25	13	73
9	48	64	8.0	4.9	4.8	.86	.09	.00	.00	21	24	65
10	44	61	7.6	4.8	4.5	.77	.08	.00	.00	18	47	54
11	40	57	7.3	4.7	4.2	.70	.06	.00	.00	15	80	46
12	37	53	7.1	4.6	4.0	.63	.02	.00	.00	15	109	42
13	37	49	7.1	4.5	3.8	.58	.01	.00	.00	14	116	37
14	36	44	7.8	4.4	3.6	.89	.00	.00	.00	25	109	32
15	34	40	7.8	4.3	3.3	1.2	.00	.00	.00	64	97	31
16	31	36	7.5	4.2	3.1	1.1	.00	.00	.00	76	82	27
17	28	33	7.2	4.2	2.9	1.0	.00	.00	.02	67	72	23
18	25	30	7.0	4.1	2.7	.95	.00	.00	1.6	71	111	24
19	23	28	6.7	4.0	2.6	.86	.00	.00	3.9	80	168	22
20	21	26	6.5	3.9	2.4	.78	.00	.00	6.1	82	157	44
21	26	25	6.3	3.8	2.2	.69	.00	.00	7.3	76	131	94
22	37	25	6.1	3.7	2.1	.61	.00	.00	6.6	66	108	102
23	31	23	5.9	3.8	2.0	.54	.00	.00	6.2	55	94	97
24	27	21	5.6	16	1.8	.47	.00	.00	7.8	45	122	92
25	24	19	5.4	15	1.7	.40	.00	.00	7.3	37	179	88
26	21	18	5.2	14	1.6	.43	.00	.00	6.6	31	213	87
27	20	17	5.0	12	1.5	.41	.00	.00	9.1	25	192	90
28	18	16	4.9	11	1.4	.36	.00	.00	8.6	20	231	94
29	17	16	4.8	10	---	.32	.00	.00	8.0	16	232	100
30	16	14	4.7	9.6	---	.28	.00	.00	7.2	13	212	107
31	15	---	4.6	8.9	---	.25	---	.00	---	12	193	---
TOTAL	1347	1006	232.3	201.3	108.9	24.51	1.70	0.00	86.32	1121.0	3152.5	2418
MEAN	43.5	33.5	7.49	6.49	3.89	.79	.057	.000	2.88	36.2	102	80.6
MAX	128	65	13	16	8.3	1.3	.23	.00	9.1	82	232	181
MIN	15	12	4.6	3.7	1.4	.25	.00	.00	.00	7.0	7.5	22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	79.1	31.8	32.8	23.8	22.9	27.3	5.66	.90	11.2	49.9	94.4	107
MAX	212	82.0	178	117	126	158	26.9	4.06	59.2	190	255	224
(WY)	1996	1998	1998	1998	1998	1998	1998	1997	1995	1995	1995	1994
MIN	4.95	1.04	.61	.44	.16	.19	.057	.000	.018	1.27	19.4	3.43
(WY)	1994	1997	1997	1997	1997	1994	1999	1999	1998	1996	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	18213.84		9699.53			
ANNUAL MEAN	49.9		26.6		40.7	
HIGHEST ANNUAL MEAN					73.9	1995
LOWEST ANNUAL MEAN					16.5	1997
HIGHEST DAILY MEAN	354	Mar 21	232	Aug 29	368	Sep 19 1994
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 11	.00	Apr 14	.00	Mar 18 1994
INSTANTANEOUS PEAK FLOW			241	Aug 28	393	Sep 19 1994
INSTANTANEOUS PEAK STAGE			23.58	Aug 28	24.58	Sep 19 1994
10 PERCENT EXCEEDS	150		89		145	
50 PERCENT EXCEEDS	16		7.2		4.4	
90 PERCENT EXCEEDS	.04		.00		.00	

270434082092000 SNOVER WATERWAY CANAL NEAR MURDOCK, FL

LOCATION.--Lat 27°04'34", long 82°09'20", in NE$^1/_4$ 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^2, approximately.

PERIOD OF RECORD.--July 1998 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, 18.83 ft, Aug. 23, 1998; minimum, unknown.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 18.21 ft, Aug. 19; minimum, unknown.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.61	16.72	16.78	16.59	---	---	16.15	15.97	15.85	17.62	16.96	17.34
2	17.55	16.72	16.77	16.60	---	---	16.15	15.97	15.84	17.90	16.92	17.29
3	17.48	16.71	16.76	16.73	---	---	16.14	15.97	15.85	17.91	16.87	17.21
4	17.42	16.87	16.75	16.72	---	---	16.13	15.96	15.88	17.96	16.94	17.14
5	17.35	17.52	16.75	16.69	---	---	16.12	15.96	15.87	17.82	17.22	17.08
6	17.29	17.49	16.74	16.67	---	15.87	16.11	15.95	15.86	17.72	17.18	17.05
7	17.26	17.46	16.73	16.66	---	15.92	16.10	15.95	15.86	17.62	17.27	17.06
8	17.22	17.41	16.72	16.64	---	15.94	16.08	15.94	15.89	17.55	17.26	17.11
9	17.18	17.34	16.70	16.64	---	15.99	16.07	15.94	15.93	17.44	17.26	17.10
10	17.14	17.29	16.70	16.64	---	16.02	16.05	15.96	15.91	17.33	17.21	17.02
11	17.10	17.24	16.69	16.63	---	16.04	16.05	15.96	15.87	17.28	17.06	16.97
12	17.06	17.19	16.72	16.61	---	16.04	16.04	15.98	15.85	17.25	17.02	16.94
13	17.04	17.14	16.73	16.60	---	16.05	16.03	16.04	15.89	17.18	17.06	16.97
14	17.01	17.09	16.75	16.60	---	16.10	16.02	16.03	15.98	17.21	17.01	17.20
15	16.98	17.05	16.73	16.59	---	16.20	16.01	16.01	16.02	17.46	17.24	16.94
16	16.95	17.02	16.70	16.59	---	16.22	16.01	15.99	16.28	17.58	17.37	15.93
17	16.93	16.99	16.68	16.58	---	16.22	16.03	15.97	16.99	17.68	17.50	15.82
18	16.92	16.97	16.67	16.58	---	16.22	16.05	15.95	17.76	17.64	18.02	16.35
19	16.88	16.95	16.66	16.58	---	16.21	16.05	15.93	17.73	17.58	18.04	16.65
20	16.85	16.93	16.66	16.58	---	16.20	16.04	15.92	17.70	17.50	18.14	16.95
21	16.86	16.92	16.66	16.57	---	16.19	16.03	15.93	17.60	17.42	18.10	17.40
22	16.97	16.91	16.65	16.56	---	16.19	16.02	15.93	17.51	17.34	18.06	17.31
23	16.93	16.90	16.65	16.56	---	16.18	16.02	15.92	17.45	17.28	17.97	17.21
24	16.90	16.87	16.64	16.91	---	16.16	16.02	15.90	17.50	17.19	17.84	17.13
25	16.87	16.87	16.63	16.85	---	16.15	16.01	15.87	17.46	17.24	17.88	17.14
26	16.83	16.90	16.62	16.78	---	16.19	16.00	15.85	17.51	17.22	17.91	17.26
27	16.81	16.86	16.61	16.75	---	16.23	15.99	15.84	17.45	17.13	17.84	17.25
28	16.79	16.83	16.61	16.73	---	16.22	15.99	15.84	17.38	17.13	17.75	17.47
29	16.77	16.81	16.60	16.53	---	16.20	15.98	15.84	17.32	17.04	17.58	17.47
30	16.75	16.80	16.61	15.89	---	16.18	15.98	15.84	17.39	17.01	17.45	17.39
31	16.73	---	16.60	15.83	---	16.17	---	15.85	---	17.02	17.39	---
MEAN	17.05	17.03	16.69	16.60	---	---	16.05	15.93	16.65	17.43	17.46	17.04
MAX	17.61	17.52	16.78	16.91	---	---	16.15	16.04	17.76	17.96	18.14	17.47
MIN	16.73	16.71	16.60	15.83	---	---	15.98	15.84	15.84	17.01	16.87	15.82

02299410 BIG SLOUGH CANAL NEAR MYAKKA CITY, FL

LOCATION.--Lat 27°11'35", long 82°08'40", in SW$^1/_4$ 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^2.

PERIOD OF RECORD.--September 1962 to September 1966 (annual maximum); October 1980 to current year.

GAGE.--Water-stage recorder. 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 fair. Prior to September 1966, flow included from Mud Lake Slough.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	3.0	e3.2	1.8	9.8	2.3	1.1	.52	.00	159	17	74
2	133	2.6	e3.0	1.8	8.9	.86	1.3	.29	.00	144	14	147
3	91	2.5	e2.9	3.2	8.2	.78	.56	.16	.00	139	14	169
4	63	3.6	e2.8	4.5	7.5	.76	.41	.04	.00	137	21	150
5	47	55	e2.7	4.4	7.0	.70	.40	.00	.00	123	30	105
6	36	76	e2.4	4.8	6.5	.69	.36	.00	.00	97	37	62
7	33	80	e1.9	4.3	5.9	.60	.42	.05	.00	72	63	46
8	28	68	1.7	3.7	5.6	.57	1.7	.64	.00	56	49	39
9	24	47	1.6	3.6	5.1	.51	2.4	.82	.00	43	55	35
10	21	34	1.6	3.6	4.6	.45	2.6	.32	.00	36	62	29
11	19	26	1.6	3.5	4.3	.42	1.4	.13	.00	30	44	24
12	16	22	1.6	3.2	4.3	.39	.50	.03	.00	27	51	20
13	19	18	1.6	3.2	3.9	.50	.30	.00	.02	26	50	17
14	21	17	2.4	3.2	3.1	2.9	.22	.00	.00	27	35	15
15	21	15	2.3	3.2	2.5	5.4	.15	.00	.00	66	27	16
16	18	14	2.4	2.6	2.3	5.2	.11	.00	.09	72	20	14
17	15	11	2.3	2.7	2.3	4.8	.13	.00	3.5	66	45	13
18	13	9.4	2.3	2.9	2.6	3.7	.17	.00	44	144	171	12
19	11	8.8	2.7	3.1	2.5	2.9	.13	.00	49	114	202	13
20	9.3	8.1	3.1	3.1	3.1	2.6	.10	.15	60	76	237	18
21	7.9	7.4	3.3	2.9	3.2	1.8	.06	.55	49	50	203	51
22	7.5	6.1	3.2	2.8	2.6	1.4	.02	.19	38	38	214	59
23	6.1	5.3	2.7	3.1	2.0	1.1	.01	.02	29	37	e270	54
24	5.0	5.3	2.4	36	1.9	1.5	.00	.00	23	45	e320	40
25	4.7	4.7	2.4	30	3.1	3.4	.00	.00	104	44	390	30
26	4.7	e4.5	2.4	30	4.5	2.9	.43	.00	131	35	417	27
27	4.4	e4.2	2.1	23	4.9	2.7	1.1	.00	169	27	348	28
28	3.7	e4.1	1.9	18	5.1	1.5	1.3	.00	195	23	275	47
29	3.3	e4.0	1.9	15	---	1.0	3.2	.00	209	19	200	53
30	3.1	e3.6	1.9	12	---	.75	1.4	.01	187	19	139	59
31	3.2	---	1.8	11	---	.49	---	.01	---	19	89	---
TOTAL	862.9	570.2	72.1	250.2	127.3	55.57	21.98	3.93	1290.61	2010	4109	1466
MEAN	27.8	19.0	2.33	8.07	4.55	1.79	.73	.13	43.0	64.8	133	48.9
MAX	171	80	3.3	36	9.8	5.4	3.2	.82	209	159	417	169
MIN	3.1	2.5	1.6	1.8	1.9	.39	.00	.00	.00	19	14	12
AC-FT	1710	1130	143	496	252	110	44	7.8	2560	3990	8150	2910

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1999, BY WATER YEAR (WY)

MEAN	36.9	15.7	17.8	18.1	21.1	38.2	15.5	5.31	64.4	45.3	71.5	79.3
MAX	204	119	195	125	143	236	90.4	27.3	605	157	230	195
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1992	1992	1992	1994
MIN	.80	.35	.22	.034	.86	.49	.26	.073	.049	.85	6.24	2.23
(WY)	1985	1981	1992	1981	1982	1981	1981	1992	1998	1993	1993	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1981 - 1999	
ANNUAL TOTAL	19734.38		10839.79			
ANNUAL MEAN	54.1		29.7		35.8	
HIGHEST ANNUAL MEAN					87.6	1992
LOWEST ANNUAL MEAN					5.26	1985
HIGHEST DAILY MEAN	1360	Mar 21	417	Aug 26	7300	Jun 27 1992
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 21	.00	May 13	.00	Dec 26 1980
INSTANTANEOUS PEAK FLOW			476	Aug 25	8600	Jun 27 1992
INSTANTANEOUS PEAK STAGE			30.25	Aug 25	33.73	Sep 21 1962
ANNUAL RUNOFF (AC-FT)	39140		21500		25920	
10 PERCENT EXCEEDS	175		78		85	
50 PERCENT EXCEEDS	6.6		4.3		6.6	
90 PERCENT EXCEEDS	.01		.02		.43	

02299455 BIG SLOUGH CANAL NEAR NORTH PORT CHARLOTTE, FL

LOCATION.--Lat 27°06'30", long 82°12'20", in SW$^1/_4$ sec.4, T.39 S., R.21 E., Sarasota County, Hydrologic Unit 03100102, 150 ft upstream from Interstate 75, 3.5 mi north of North Port Charlotte, and 6.0 mi upstream from mouth.

DRAINAGE AREA.--86.2 mi^2.

PERIOD OF RECORD.-February 1962 to May 1967 (miscellaneous discharge measurements only); April 1989 to September 1991; October 1991 to September 1992 (gage heights only); October 1993 to current year (gage heights only), incomplete.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 961 ft^3/s, July 4, 1991; maximum gage height, 26.22 ft, June 27, 1992; no flow many days in 1990 water year.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.16 ft, Aug. 28; dry many days.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.05	14.06	14.08	13.85	14.44	13.95	13.72	13.69	---	17.18	14.77	16.98
2	16.74	14.01	14.06	13.84	14.36	13.86	13.73	13.61	---	17.41	14.63	17.19
3	16.39	13.99	14.04	14.03	14.30	13.85	13.75	13.56	13.51	17.12	14.49	17.19
4	16.01	14.04	14.05	14.06	14.25	13.84	13.69	13.53	13.51	17.22	14.68	17.08
5	15.74	15.91	14.05	14.05	14.20	13.82	13.66	13.52	---	16.85	15.07	16.78
6	15.69	16.31	14.02	14.09	14.17	13.81	13.64	13.51	---	16.48	15.08	16.29
7	15.73	16.35	13.96	14.14	14.14	13.80	13.63	13.51	---	16.11	15.65	16.02
8	15.63	16.32	13.94	14.12	14.11	13.79	13.60	---	13.51	15.97	15.78	15.90
9	15.42	16.05	13.93	14.10	14.10	13.77	13.64	---	13.51	15.49	15.67	15.78
10	15.26	15.80	13.91	14.09	14.08	13.77	13.73	---	13.51	15.29	15.95	15.52
11	15.15	15.53	13.91	14.06	14.06	13.75	13.73	---	---	15.17	15.73	15.36
12	15.08	15.26	13.91	14.03	14.05	13.73	13.69	---	---	15.05	15.74	15.29
13	15.11	15.05	13.92	14.00	14.03	13.72	13.61	---	---	15.03	16.04	15.06
14	15.14	14.98	13.99	13.99	14.00	13.80	13.57	---	13.51	15.38	15.84	14.93
15	15.15	14.89	13.98	13.99	13.98	14.14	13.56	---	13.51	16.57	15.59	15.02
16	15.14	14.77	13.96	13.96	13.97	14.00	13.55	---	13.52	16.76	15.27	14.91
17	14.99	14.63	13.97	13.94	13.96	14.02	13.54	---	13.96	16.41	15.58	14.80
18	14.82	14.52	14.01	13.95	13.96	13.99	13.55	---	14.80	16.69	17.45	14.74
19	14.68	14.47	14.04	13.95	13.95	13.96	13.54	---	14.93	16.85	17.86	14.85
20	14.57	14.39	14.05	13.95	13.95	13.93	13.54	---	15.30	16.46	17.80	15.40
21	14.52	14.36	14.05	13.94	13.96	13.90	13.53	13.51	15.32	15.96	17.94	16.98
22	14.53	14.35	14.04	13.93	13.95	13.87	13.53	---	15.11	15.74	17.95	16.67
23	14.36	14.29	14.01	13.94	13.92	13.83	13.53	---	14.87	15.45	18.20	16.31
24	14.30	14.25	13.98	15.45	13.90	13.80	13.52	---	14.91	15.47	18.56	15.97
25	14.26	14.23	13.95	15.47	13.91	13.81	13.52	---	15.84	15.79	18.90	15.66
26	14.24	14.22	13.94	15.57	13.94	13.89	13.51	---	17.14	15.64	19.30	15.58
27	14.19	14.21	13.92	15.46	13.96	13.93	13.51	---	17.18	15.24	19.63	15.55
28	14.15	14.18	13.90	15.13	13.96	13.84	13.51	---	17.14	15.10	19.81	16.11
29	14.12	14.16	13.89	14.86	---	13.80	13.51	---	17.26	14.92	18.96	16.09
30	14.09	14.13	13.89	14.66	---	13.77	13.60	---	17.32	14.83	18.44	16.11
31	14.07	---	13.87	14.54	---	13.73	---	---	---	14.91	17.57	---
MEAN	15.04	14.79	13.97	14.29	14.06	13.85	13.60	---	---	15.95	16.77	15.87
MAX	17.05	16.35	14.08	15.57	14.44	14.14	13.75	---	---	17.41	19.81	17.19
MIN	14.07	13.99	13.87	13.84	13.90	13.72	13.51	---	---	14.83	14.49	14.74

02299484 BIG SLOUGH AT WCS-101 AT NORTH PORT, FL

LOCATION.--Lat 27°02'48", long 82°14'17", in NE$^1/_4$ 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^2, approximately.

PERIOD OF RECORD.--June 1993 to current year (gage heights only), incomplete.

GAGE.--Water-stage recorder. Datum of gage is 15.60 ft above National Geodetic Vertical Datum of 1929.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 22.74 ft, June 23, 1995; minimum, 18.34 ft, Apr. 17, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 20.96 ft, Aug. 26; minimum, 18.95 ft, Nov. 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.06	19.92	19.95	19.84	20.06	19.83	19.73	19.63	19.49	19.94	20.19	19.98
2	19.99	20.02	19.93	19.83	20.01	19.80	19.72	19.65	19.51	20.31	20.16	20.03
3	19.61	19.88	19.92	19.97	19.96	19.79	19.74	19.64	19.69	20.08	20.13	19.99
4	19.52	19.42	19.90	19.95	19.91	19.79	19.73	19.62	19.76	20.12	20.24	19.94
5	19.57	19.77	19.92	19.90	19.92	19.78	19.71	19.60	19.68	19.81	20.39	19.84
6	19.85	19.84	19.92	19.90	20.04	19.78	19.70	19.59	19.65	20.05	20.27	19.64
7	19.88	19.59	19.94	19.93	20.03	19.78	19.69	19.59	19.63	19.99	20.32	19.53
8	19.90	19.67	19.86	19.92	20.02	19.77	19.68	19.57	19.64	20.15	20.36	19.66
9	19.76	19.53	19.86	19.91	20.01	19.75	19.68	19.56	19.73	20.11	20.42	19.75
10	19.59	19.37	19.85	19.92	20.00	19.75	19.70	---	19.67	20.26	20.20	19.47
11	19.57	19.22	19.85	19.90	20.04	19.89	19.71	---	19.64	20.24	20.03	19.75
12	19.54	19.07	19.88	19.88	19.91	19.74	19.70	---	19.63	20.27	20.11	20.00
13	19.71	19.61	19.88	19.86	19.94	19.71	19.67	---	19.67	20.25	19.74	19.53
14	19.49	20.18	19.93	19.86	19.94	19.75	19.65	---	19.67	20.36	20.25	19.16
15	19.86	20.16	19.89	19.86	19.93	19.90	19.64	---	19.65	20.34	20.20	19.74
16	20.20	20.14	19.87	19.86	19.92	19.86	19.63	---	19.69	19.97	20.08	19.90
17	20.18	20.12	19.87	19.86	20.03	19.84	19.63	19.50	19.84	19.74	20.24	19.84
18	20.15	20.09	19.88	19.86	19.95	19.83	19.65	19.48	20.27	19.81	20.55	20.12
19	20.12	20.08	19.90	19.86	19.83	19.82	19.64	19.49	20.19	19.99	20.53	19.78
20	20.12	20.07	19.91	19.87	19.82	19.81	19.63	19.57	20.19	19.89	20.34	19.70
21	20.07	20.05	19.91	19.86	19.82	19.79	19.63	19.61	20.25	20.02	20.33	20.23
22	20.14	20.05	19.91	19.85	19.82	19.78	19.63	19.61	20.15	20.27	20.39	19.96
23	20.04	20.03	19.89	19.84	19.81	19.77	19.63	19.60	20.11	20.25	20.48	19.74
24	20.01	20.02	19.87	20.35	19.80	19.75	19.63	19.59	20.25	20.26	20.56	19.56
25	20.01	20.03	19.86	20.23	19.80	19.75	19.63	19.57	20.30	20.34	20.65	19.36
26	20.00	20.04	19.86	20.03	19.81	19.80	19.62	19.55	20.65	20.41	20.77	19.38
27	20.00	20.02	19.86	20.02	19.83	19.82	19.61	19.53	20.63	20.23	20.59	19.35
28	19.97	19.99	19.86	19.95	19.83	19.79	19.61	19.51	20.37	20.21	20.63	19.62
29	19.95	19.98	19.87	20.01	---	19.76	19.62	19.49	20.13	20.23	20.44	19.61
30	19.94	19.97	19.87	20.17	---	19.75	19.61	19.50	20.15	20.15	20.33	19.57
31	19.92	---	19.85	20.12	---	19.74	---	19.51	---	20.22	20.17	---
MEAN	19.89	19.86	19.89	19.94	19.92	19.79	19.66	---	19.93	20.14	20.33	19.72
MAX	20.20	20.18	19.95	20.35	20.06	19.90	19.74	---	20.65	20.41	20.77	20.23
MIN	19.49	19.07	19.85	19.83	19.80	19.71	19.61	---	19.49	19.74	19.74	19.16

CAL YR 1998 MEAN 19.94 MAX 21.94 MIN 18.38

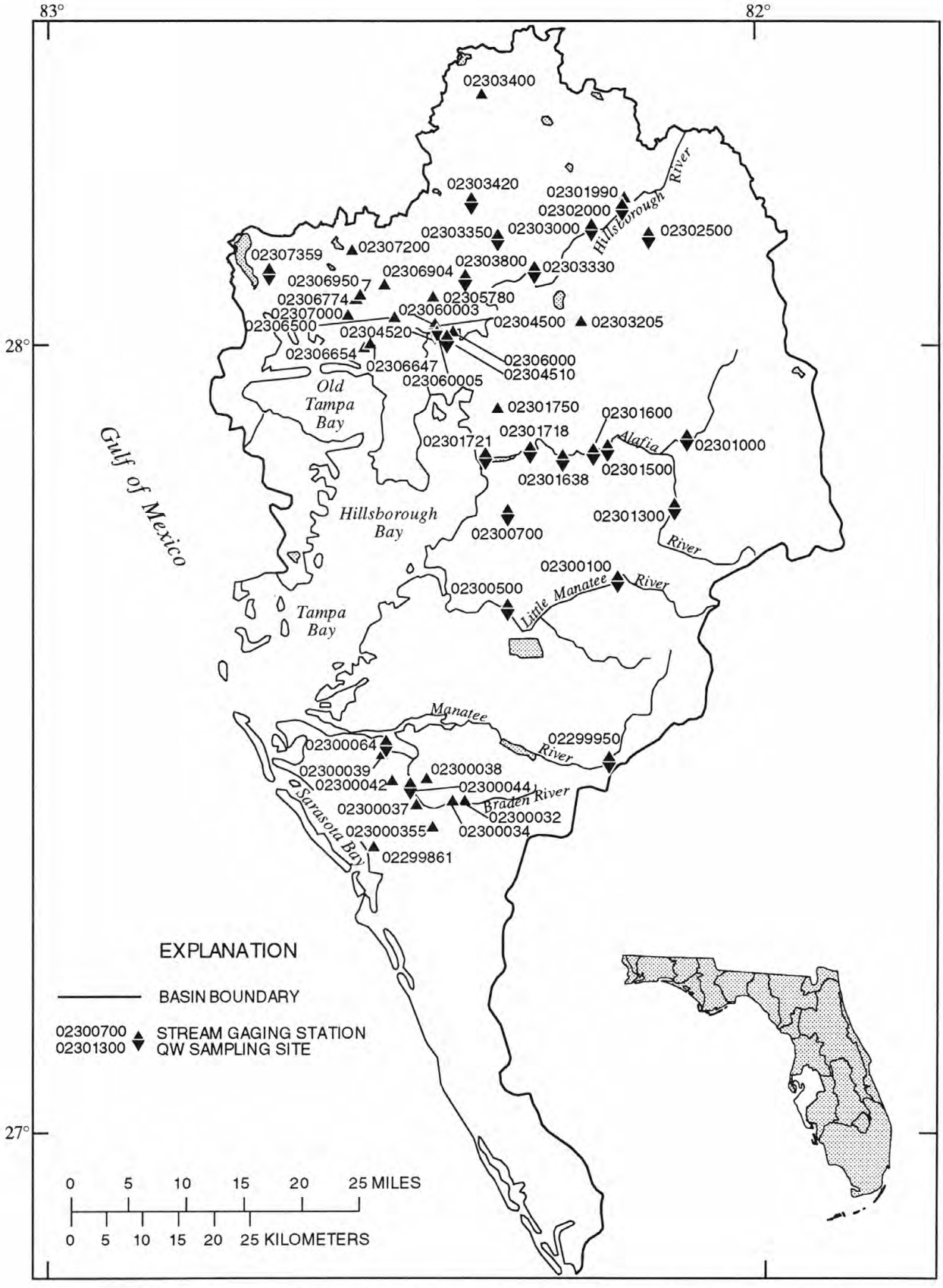

Figure 15.--Location of stream gaging stations in the Coastal area between Myakka and Manatee Rivers, Manatee, Little Manatee, Alafia, Hillsborough River Basins, Tampa Bay and Coastal area.

02299861 WALKER CREEK NEAR SARASOTA, FL

LOCATION.--Lat 27°22'03", long 82°32'40", in NW$^1/_4$ 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^2.
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 fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	1.4	1.5	1.2	2.8	1.9	.80	.83	.39	3.8	2.9	5.9
2	11	1.4	1.4	3.5	3.2	1.7	.82	.64	7.2	13	2.7	4.8
3	8.3	1.3	1.5	7.7	3.0	2.5	.85	.50	3.4	14	4.2	3.8
4	6.6	1.6	1.5	2.0	2.8	2.2	.77	.64	1.7	14	3.1	3.5
5	6.1	14	1.3	1.5	2.4	1.9	.76	.42	7.6	7.9	3.7	3.1
6	5.8	4.2	1.3	1.3	2.3	1.8	.73	.42	3.4	6.2	59	3.1
7	4.5	3.1	1.3	1.2	2.4	1.7	.70	.35	1.6	7.0	18	3.0
8	4.3	3.0	1.2	1.3	2.5	1.8	.65	.42	1.4	5.0	7.2	40
9	4.1	2.7	1.2	1.6	2.3	1.8	.68	.34	6.0	4.7	42	8.1
10	3.7	2.3	1.2	1.9	2.2	1.6	.66	.33	3.5	3.9	28	5.8
11	3.5	2.1	1.2	1.5	2.2	1.5	.65	.37	1.9	3.7	11	4.4
12	2.9	2.0	1.3	1.2	2.3	1.5	.65	.37	1.3	3.4	9.7	3.6
13	2.0	1.9	2.0	1.1	2.4	1.9	.63	.49	1.1	14	6.8	3.1
14	1.7	1.9	2.3	1.5	2.3	3.1	.65	.31	1.9	10	5.5	2.9
15	2.0	1.8	1.8	1.1	2.2	1.1	.59	.35	1.5	7.8	5.3	2.7
16	4.7	1.7	1.5	1.1	2.3	.85	.97	.31	1.2	5.7	3.8	2.8
17	5.6	1.7	1.4	1.3	2.5	.78	1.8	.24	1.1	4.7	3.9	2.6
18	6.6	1.6	1.4	1.1	2.1	.76	1.2	.24	3.6	4.3	3.7	3.4
19	6.9	1.7	1.4	1.1	2.2	.81	.64	.31	3.2	4.4	3.4	2.9
20	7.4	1.7	1.5	1.0	1.9	.78	.61	.18	1.9	3.9	3.0	20
21	7.5	1.7	1.5	1.2	1.9	.96	.54	.26	2.0	3.5	2.9	21
22	9.2	1.9	1.3	1.2	2.0	.67	.54	.17	1.8	3.5	25	7.4
23	6.5	1.9	1.2	5.5	1.9	.71	.47	.13	1.5	3.6	61	7.3
24	1.7	1.9	1.2	16	1.8	.65	.49	.35	1.6	3.4	16	5.3
25	1.5	2.0	1.2	4.6	1.8	.67	.48	.30	1.4	3.5	8.6	5.8
26	1.5	2.0	1.2	3.5	1.9	1.0	.52	.14	1.3	3.4	6.5	5.2
27	1.5	2.1	1.3	3.3	1.9	.75	.66	.13	2.2	2.9	5.6	5.2
28	1.7	1.8	1.2	3.0	2.0	.66	.74	.18	1.7	2.8	4.7	5.2
29	1.6	1.8	1.3	2.9	---	.67	.75	.16	1.3	3.6	4.2	4.6
30	1.6	1.8	1.5	2.8	---	.68	2.0	1.4	3.0	3.3	17	4.1
31	1.7	---	1.1	2.7	---	.77	---	.83	---	3.4	7.7	---
TOTAL	150.7	72.0	43.2	81.9	63.5	40.17	23.00	12.11	72.69	178.3	386.1	200.6
MEAN	4.86	2.40	1.39	2.64	2.27	1.30	.77	.39	2.42	5.75	12.5	6.69
MAX	17	14	2.3	16	3.2	3.1	2.0	1.4	7.6	14	61	40
MIN	1.5	1.3	1.1	1.0	1.8	.65	.47	.13	.39	2.8	2.7	2.6
CFSM	.99	.49	.28	.54	.46	.26	.16	.08	.49	1.17	2.54	1.36
IN.	1.14	.55	.33	.62	.48	.30	.17	.09	.55	1.35	2.93	1.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1999, BY WATER YEAR (WY)

MEAN	9.26	5.85	5.21	6.79	5.64	6.68	5.12	2.30	8.71	7.63	12.0	11.9
MAX	28.8	17.7	23.7	16.8	16.0	23.5	14.6	4.24	33.5	13.9	31.5	23.3
(WY)	1996	1998	1998	1998	1998	1998	1993	1996	1992	1995	1995	1992
MIN	2.50	1.41	1.08	1.42	1.22	1.25	.77	.39	1.79	2.62	3.14	4.13
(WY)	1992	1992	1992	1992	1997	1997	1999	1999	1994	1998	1997	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1992 - 1999	
ANNUAL TOTAL	2727.55		1324.27			
ANNUAL MEAN	7.47		3.63		7.26	
HIGHEST ANNUAL MEAN					10.6	1998
LOWEST ANNUAL MEAN					3.49	1997
HIGHEST DAILY MEAN	222	Mar 19	61	Aug 23	348	Jun 26 1992
LOWEST DAILY MEAN	.38	Jun 19	.13	May 23	.12	Apr 20 1997
ANNUAL SEVEN-DAY MINIMUM	.60	Jun 16	.20	May 23	.20	May 23 1999
INSTANTANEOUS PEAK FLOW			199	Aug 6	971	Jun 25 1992
INSTANTANEOUS PEAK STAGE			6.66	Aug 6	13.01	Jun 25 1992
ANNUAL RUNOFF (CFSM)	1.52		.74		1.48	
ANNUAL RUNOFF (INCHES)	20.66		10.03		20.10	
10 PERCENT EXCEEDS	13		7.2		14	
50 PERCENT EXCEEDS	2.4		1.9		3.2	
90 PERCENT EXCEEDS	1.1		.64		1.1	

02299950 MANATEE RIVER NEAR MYAKKA HEAD, FL

LOCATION.--Lat 27°28'24", long 82°12'41", 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^2.

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 recorder. Datum of gage is 40.93 ft above National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).

REMARKS.--Records good. Extreme low flow affected at times by ground-water pumpage into channel upstream from station by Manatee County Utilities since about September 1984.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	475	18	21	14	22	14	10	23	45	245	40	551
2	431	19	19	12	20	13	8.2	17	22	487	30	166
3	378	20	19	29	19	12	8.2	12	62	508	24	87
4	239	23	17	52	18	14	8.6	10	519	246	28	57
5	143	218	18	45	17	12	8.3	9.4	241	149	115	42
6	103	308	18	30	15	11	8.1	8.5	149	101	424	35
7	81	162	15	24	14	12	7.9	7.5	110	73	486	37
8	65	92	13	22	14	13	8.0	6.9	66	80	230	42
9	54	64	14	20	14	13	7.8	10	49	78	112	43
10	46	50	16	21	13	12	7.0	28	37	66	88	35
11	40	41	16	22	14	12	6.6	29	27	46	67	28
12	65	38	17	20	13	11	7.0	20	21	40	57	25
13	962	35	18	17	13	10	7.1	21	17	262	62	24
14	545	32	19	16	13	12	6.5	17	28	193	74	21
15	216	30	19	15	11	14	6.5	19	23	147	47	22
16	119	28	16	14	12	12	7.0	24	18	107	34	21
17	82	26	14	14	12	11	7.2	18	73	73	31	18
18	63	23	13	14	11	10	9.3	11	460	55	49	19
19	52	24	14	15	12	10	9.3	9.6	284	46	64	24
20	42	24	15	16	11	10	7.6	10	176	39	50	46
21	39	24	14	15	11	12	6.2	9.5	233	29	45	75
22	36	45	13	14	12	13	6.3	9.9	131	23	92	73
23	32	43	12	13	11	11	7.4	9.8	73	26	e508	52
24	27	35	11	75	10	9.7	7.6	10	244	36	445	36
25	26	30	11	102	10	9.5	7.5	8.0	307	33	519	29
26	24	35	11	72	11	10	7.5	6.4	395	26	275	27
27	24	29	12	48	12	10	6.7	6.1	358	48	135	e162
28	23	24	13	37	12	11	6.2	6.0	664	59	240	e837
29	21	21	13	31	---	11	24	5.9	515	32	161	314
30	21	21	15	27	---	11	29	24	241	29	91	120
31	20	---	15	24	---	10	---	65	---	44	128	---
TOTAL	4494	1582	471	890	377	356.2	264.6	471.5	5588	3426	4751	3068
MEAN	145	52.7	15.2	28.7	13.5	11.5	8.82	15.2	186	111	153	102
MAX	962	308	21	102	22	14	29	65	664	508	519	837
MIN	20	18	11	12	10	9.5	6.2	5.9	17	23	24	18
CFSM	2.22	.81	.23	.44	.21	.18	.14	.23	2.85	1.69	2.35	1.57
IN.	2.56	.90	.27	.51	.21	.20	.15	.27	3.18	1.95	2.71	1.75

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1999, BY WATER YEAR (WY)

MEAN	53.5	33.9	33.4	41.7	43.7	63.0	24.9	23.6	86.6	117	164	171
MAX	235	335	307	203	229	358	128	196	366	383	349	530
(WY)	1972	1998	1998	1998	1998	1998	1993	1991	1982	1968	1967	1994
MIN	3.24	2.69	4.72	5.60	6.82	2.66	.54	.58	2.48	12.9	17.2	8.06
(WY)	1975	1975	1985	1968	1974	1974	1975	1967	1988	1972	1980	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1967 - 1999	
ANNUAL TOTAL	45503.95		25739.3			
ANNUAL MEAN	125		70.5		71.4	
HIGHEST ANNUAL MEAN					164	1998
LOWEST ANNUAL MEAN					23.0	1990
HIGHEST DAILY MEAN	4830	Mar 20	962	Oct 13	5000	Nov 14 1997
LOWEST DAILY MEAN	.45	Jun 18	5.9	May 29	.12	May 24 1975
ANNUAL SEVEN-DAY MINIMUM	.86	Jun 13	6.8	Apr 10	.18	May 21 1975
INSTANTANEOUS PEAK FLOW			1310	Oct 13	7190	Nov 14 1997
INSTANTANEOUS PEAK STAGE			13.52	Oct 13	18.08	Nov 14 1997
ANNUAL RUNOFF (CFSM)	1.91		1.08		1.09	
ANNUAL RUNOFF (INCHES)	25.92		14.66		14.86	
10 PERCENT EXCEEDS	262		217		168	
50 PERCENT EXCEEDS	30		23		18	
90 PERCENT EXCEEDS	5.0		9.5		4.0	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG												
10...	1300	4.17	86	131	6.01	25.9	--	7.3	1	--	--	--
SEP												
28...	1230	12.42	947	48	5.04	24.7	240	6.1	1.5	3.7	1.6	2.3

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
AUG												
10...	--	--	--	--	--	--	<.01	.12	.02	.70	.35	.30
SEP												
28...	1.3	6.0	4.4	.11	3.2	75	<.01	.03	.02	.56	.20	.18

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	22
SEP												
28...	319	<1.0	<1.0	<1.0	1.2	292	<1	<.1	<1.0	87	2.8	23

02300032 BRADEN RIVER NEAR LORRAINE, FL

LOCATION.--Lat 27°25'20", long 82°25'00", in SE$^1/_4$ 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^2.
PERIOD OF RECORD.--July 1988 to current year.
GAGE.--Water-stage recorder. Datum of gage is 3.79 ft below National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).
REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	3.9	2.6	2.7	13	1.4	.48	.19	1.8	334	26	18
2	176	3.4	2.6	2.7	18	1.4	.48	.20	4.0	208	25	20
3	105	3.1	2.5	3.8	15	1.4	.47	.19	4.7	115	34	17
4	62	4.0	2.4	7.1	13	1.4	.42	.18	23	121	99	14
5	42	89	2.4	6.1	10	1.5	.41	.18	36	182	93	12
6	32	192	2.3	4.1	8.3	1.4	.31	.18	20	107	227	10
7	25	97	2.3	3.4	7.1	1.3	.21	.21	9.2	90	371	11
8	20	54	2.3	3.1	6.1	1.1	.19	.25	5.6	63	151	14
9	16	35	2.2	e2.6	5.5	1.1	.33	.22	4.2	99	132	15
10	13	25	e1.9	e2.6	5.1	1.1	.37	.22	8.0	264	205	13
11	11	18	e1.9	e2.5	4.8	1.0	.25	.21	15	116	101	11
12	9.2	14	e1.8	e2.4	4.3	.98	.20	.24	8.4	64	71	13
13	8.4	11	e1.9	e2.5	3.7	.92	.19	.21	5.3	53	55	12
14	16	9.0	e2.0	2.4	3.3	.94	.19	.25	6.8	60	52	9.9
15	30	7.7	2.2	2.3	3.0	.97	.18	.43	13	49	56	8.8
16	23	6.9	e2.1	2.1	2.7	1.0	.18	.21	8.0	38	33	7.3
17	15	6.2	e1.9	2.0	2.6	.95	.30	.19	12	31	117	6.4
18	12	5.5	e1.8	2.0	2.4	.90	.25	.18	81	24	137	5.9
19	9.5	5.0	e1.7	2.1	2.3	.86	.19	1.1	117	18	333	7.0
20	7.9	4.5	e1.8	2.1	2.1	.83	.18	.76	65	15	257	37
21	6.9	4.2	e1.9	2.2	2.0	.85	.18	.46	41	12	162	86
22	9.2	5.5	e2.0	2.3	1.8	.78	.17	.34	39	11	191	60
23	49	5.4	e2.1	2.4	1.7	.80	.17	.34	30	9.3	838	36
24	29	4.7	2.3	31	1.7	.80	.16	.30	254	7.8	389	25
25	17	4.1	2.3	50	1.7	.75	.16	.60	167	6.5	155	e22
26	12	3.7	2.4	25	1.6	.67	.17	.79	82	5.4	86	e17
27	9.0	3.4	2.6	16	1.5	.65	.16	.64	181	5.1	60	e19
28	7.2	3.3	2.7	13	1.4	.61	.17	.47	164	5.9	48	e28
29	6.0	3.0	2.7	10	---	.60	.17	.34	81	5.4	37	e24
30	5.2	2.8	2.6	8.4	---	.55	.20	.33	54	5.2	28	e21
31	4.5	---	2.6	7.2	---	.49	---	.32	---	6.3	21	---
TOTAL	865.0	634.3	68.8	228.1	145.7	30.00	7.49	10.73	1541.0	2130.9	4590	600.3
MEAN	27.9	21.1	2.22	7.36	5.20	.97	.25	.35	51.4	68.7	148	20.0
MAX	176	192	2.7	50	18	1.5	.48	1.1	254	334	838	86
MIN	4.5	2.8	1.7	2.0	1.4	.49	.16	.18	1.8	5.1	21	5.9
CFSM	1.08	.82	.09	.29	.20	.04	.01	.01	1.99	2.66	5.74	.78
IN.	1.25	.91	.10	.33	.21	.04	.01	.02	2.22	3.07	6.62	.87

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	29.2	28.1	19.8	21.3	18.9	25.2	18.3	17.6	53.9	72.3	74.0	66.6
MAX	114	208	172	90.1	100	160	61.6	154	264	152	164	139
(WY)	1991	1998	1998	1998	1998	1998	1993	1991	1992	1991	1995	1989
MIN	4.68	.79	1.00	.54	.37	.35	.25	.35	.32	12.0	10.3	4.43
(WY)	1989	1997	1997	1997	1997	1997	1999	1999	1998	1989	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	16551.93		10852.32			
ANNUAL MEAN	45.3		29.7		37.2	
HIGHEST ANNUAL MEAN					74.0	1998
LOWEST ANNUAL MEAN					17.0	1996
HIGHEST DAILY MEAN	2490	Mar 20	838	Aug 23	2930	Jun 26 1992
LOWEST DAILY MEAN	.20	Jun 7	.16	Apr 24	.12	Jun 13 1994
ANNUAL SEVEN-DAY MINIMUM	.23	Jun 2	.17	Apr 22	.17	Apr 22 1999
INSTANTANEOUS PEAK FLOW			922	Aug 23	3120	Jun 26 1992
INSTANTANEOUS PEAK STAGE			23.49	Aug 23	27.90	Jun 26 1992
ANNUAL RUNOFF (CFSM)	1.76		1.15		1.44	
ANNUAL RUNOFF (INCHES)	23.87		15.65		19.59	
10 PERCENT EXCEEDS	77		89		83	
50 PERCENT EXCEEDS	7.2		5.1		6.7	
90 PERCENT EXCEEDS	.30		.25		.96	

02300034 HICKORY HAMMOCK CREEK NEAR LORRAINE, FL

LOCATION.--Lat 27°25'18", long 82°25'56", in SW$^1/_4$ sec.20, T.35 S., R.19 E., Manatee County, Hydrologic Unit 03100202, on left bank, on upstream side of culvert on River Club Boulevard, 0.3 mi upstream from Braden River, 0.8 mi south of State Highway 70, 2.4 mi southwest of Lorraine, and 11.4 mi southwest of Bradenton.

DRAINAGE AREA.--2.40 mi^2.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (from private engineering firm). Prior to Oct. 28, 1992, at site 250 ft downstream at same datum.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	.21	.98	1.0	1.7	.55	.26	.18	.17	9.3	1.6	2.3
2	3.7	.22	.97	.95	1.6	.51	.23	.18	.17	7.1	1.4	2.1
3	2.6	.21	.98	2.1	1.7	.54	.23	.18	.30	4.7	6.5	1.8
4	2.0	1.1	.93	1.4	1.5	.56	.22	.17	.47	17	27	1.6
5	1.6	15	.98	1.1	1.3	.49	.22	.17	.37	31	37	1.5
6	1.5	6.4	.95	1.0	1.2	.42	.22	.16	.26	17	47	2.1
7	1.4	3.5	.92	.95	1.1	.42	.21	.18	.21	11	37	4.9
8	1.1	2.7	.91	.89	1.1	.41	.21	.20	.21	9.0	19	7.3
9	.89	2.2	.91	.92	1.1	.40	.21	.18	.21	28	21	4.9
10	.79	1.9	.91	1.2	1.0	.43	.21	.17	.22	33	21	3.0
11	.67	1.8	.91	1.1	.96	.48	.20	.16	.21	16	12	2.1
12	.62	1.6	.91	.95	.92	.55	.19	.17	.22	9.2	8.8	1.7
13	.55	1.5	.93	.87	.87	.50	.18	.17	.21	17	6.3	1.6
14	.79	1.5	.96	.91	.82	.44	.18	.20	.22	23	6.7	1.5
15	2.2	1.3	.99	.89	.74	.50	.18	.28	.21	14	8.0	1.3
16	1.2	1.3	.78	.97	.70	.42	.18	.18	.50	8.8	7.4	1.1
17	.85	1.2	.77	1.2	.69	.39	.24	.18	2.4	5.9	25	1.0
18	.68	1.2	.70	1.1	.73	.39	.24	.18	7.5	4.4	25	1.0
19	.52	1.1	.67	.97	.72	.39	.22	.20	5.0	3.5	32	1.1
20	.42	1.1	.76	1.1	.70	.35	.20	.54	2.7	2.8	18	6.6
21	.41	1.1	.81	1.3	.66	.42	.20	.32	7.4	2.4	12	14
22	.44	1.1	.78	1.1	.67	.54	.19	.22	3.7	2.1	38	6.9
23	.34	1.1	.77	1.1	.70	.44	.18	.18	2.5	1.9	66	3.2
24	.30	1.1	.76	12	.67	.34	.18	.17	2.6	1.8	32	2.2
25	.27	1.1	.81	3.1	.56	.32	.18	.17	2.8	1.7	16	1.8
26	.26	1.1	.84	2.0	.54	.32	.18	.17	9.9	1.6	9.4	1.6
27	.23	1.0	.90	1.9	.51	.31	.18	.16	8.6	1.7	5.9	1.7
28	.24	1.0	.94	1.7	.52	.29	.18	.16	4.0	1.6	4.2	1.7
29	.23	1.0	.98	1.5	---	.28	.18	.16	2.7	1.5	3.6	1.5
30	.22	.99	1.0	1.4	---	.27	.18	.17	2.2	1.5	3.2	1.4
31	.21	---	1.1	1.4	---	.27	---	.17	---	1.6	2.7	---
TOTAL	31.83	57.63	27.51	50.07	25.98	12.94	6.06	6.08	68.16	291.1	560.7	86.5
MEAN	1.03	1.92	.89	1.62	.93	.42	.20	.20	2.27	9.39	18.1	2.88
MAX	4.6	15	1.1	12	1.7	.56	.26	.54	9.9	33	66	14
MIN	.21	.21	.67	.87	.51	.27	.18	.16	.17	1.5	1.4	1.0
CFSM	.43	.80	.37	.67	.39	.17	.08	.08	.95	3.91	7.54	1.20
IN.	.49	.89	.43	.78	.40	.20	.09	.09	1.06	4.51	8.69	1.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	2.74	2.03	2.02	2.62	2.08	2.25	1.62	1.00	3.35	4.70	7.23	6.83
MAX	8.61	13.9	15.1	10.6	11.4	13.9	5.87	5.12	19.1	11.3	18.1	17.5
(WY)	1991	1998	1998	1998	1998	1998	1993	1991	1992	1991	1999	1989
MIN	.50	.12	.26	.084	.18	.31	.16	.094	.13	.65	.41	.32
(WY)	1989	1992	1989	1992	1991	1997	1990	1990	1990	1993	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	1706.17		1224.56			
ANNUAL MEAN	4.67		3.35		3.21	
HIGHEST ANNUAL MEAN					6.98	1998
LOWEST ANNUAL MEAN					1.45	1990
HIGHEST DAILY MEAN	150	Mar 20	66	Aug 23	247	Jun 26 1992
LOWEST DAILY MEAN	.16	May 20	.16	May 6	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.17	May 16	.17	May 24	.00	Jan 8 1991
INSTANTANEOUS PEAK FLOW			110	Aug 22	280	Jun 26 1992
INSTANTANEOUS PEAK STAGE			14.07	Aug 22	18.45	Jun 26 1992
ANNUAL RUNOFF (CFSM)	1.95		1.40		1.34	
ANNUAL RUNOFF (INCHES)	26.45		18.98		18.18	
10 PERCENT EXCEEDS	8.0		8.8		7.0	
50 PERCENT EXCEEDS	1.1		.97		.70	
90 PERCENT EXCEEDS	.22		.18		.17	

02300035.5 COOPER CREEK AT UNIVERSITY PARKWAY NEAR SARASOTA, FL

LOCATION.--Lat 27°23'18", long 82°27'35", in SW$^1/_4$ sec.36 T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on right bank near downstream side of culvert on University Parkway, 0.5 mi west of Interstate 75, 2.2 mi upstream from Braden River, and 3.5 mi southeast of Sarasota.
DRAINAGE AREA.--9.33 mi^2.
PERIOD OF RECORD.--July 1988 to current year.
GAGE.--Water-stage recorder. Datum of gage is 0.72 ft below National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).
REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	1.8	1.8	.06	2.5	.03	.00	.00	.00	21	6.6	e16
2	35	1.8	1.6	.04	2.4	.02	.00	.00	.00	28	5.9	e15
3	32	1.9	1.4	2.4	2.4	.02	.00	.00	.00	39	5.7	e7.0
4	28	4.3	1.4	1.9	2.2	.02	.00	.00	.00	39	6.8	e7.1
5	25	14	1.3	1.0	2.0	.02	.00	.00	.00	36	7.7	e7.3
6	23	12	1.2	.62	1.9	.02	.00	.00	.00	40	26	e8.3
7	17	12	1.0	.45	1.6	.02	.00	.00	.00	42	37	e12
8	13	12	.89	.39	1.4	.02	.00	.00	.00	41	37	e17
9	14	12	.77	.41	1.3	.02	.00	.00	.00	39	43	e14
10	12	11	.63	1.0	1.2	.02	.00	.00	.00	36	48	e10
11	11	10	.40	.63	1.0	.01	.00	.00	.00	32	44	e8.0
12	9.9	9.9	.35	.46	.90	.01	.00	.00	.00	28	45	e6.6
13	9.5	9.2	.67	.43	.78	.01	.00	.00	.00	24	45	e5.5
14	8.8	8.6	.98	.43	.50	.01	.00	.00	.00	35	43	e5.0
15	8.1	7.9	.53	.40	.35	.01	.00	.00	.00	40	e35	e4.8
16	7.4	7.4	.25	.40	.24	.01	.00	.00	.00	40	e29	e4.8
17	6.6	6.7	.10	.41	.25	.01	.00	.00	.00	40	e42	e5.2
18	6.0	5.9	.04	.44	.22	.01	.00	.00	.40	36	e36	e5.8
19	5.3	5.5	.02	.44	.19	.01	.00	.00	.09	31	63	e7.8
20	4.8	5.1	.02	.44	.17	.01	.00	.00	.04	25	66	e12
21	4.5	4.6	.02	.40	.11	.00	.00	.00	.03	21	67	e17
22	4.1	4.1	.03	.44	.08	.00	.00	.00	.03	18	78	e24
23	3.1	3.8	.03	.78	.04	.00	.00	.00	.48	16	127	e17
24	2.4	3.5	.03	7.3	.03	.00	.00	.00	.37	14	88	e10
25	2.2	3.5	.04	4.5	.03	.00	.00	.00	.08	12	79	e12
26	2.0	3.8	.04	3.6	.03	.00	.00	.00	.11	11	71	e8.0
27	1.9	3.5	.04	3.1	.02	.00	.00	.00	3.7	10	e45	e5.6
28	1.8	3.0	.03	3.0	.02	.00	.00	.00	7.6	9.3	e33	e5.3
29	1.8	2.6	.04	2.9	---	.00	.00	.00	9.9	8.2	e25	e5.4
30	1.8	2.2	.13	2.8	---	.00	.00	.00	12	7.2	e17	e5.8
31	1.8	---	.10	2.5	---	.00	---	.00	---	6.9	e14	---
TOTAL	342.8	193.6	15.88	44.07	23.86	0.31	0.00	0.00	34.83	825.6	1315.7	289.3
MEAN	11.1	6.45	.51	1.42	.85	.010	.000	.000	1.16	26.6	42.4	9.64
MAX	39	14	1.8	7.3	2.5	.03	.00	.00	12	42	127	24
MIN	1.8	1.8	.02	.04	.02	.00	.00	.00	.00	6.9	5.7	4.8
CFSM	1.19	.69	.05	.15	.09	.00	.00	.00	.12	2.85	4.55	1.03
IN.	1.37	.77	.06	.18	.10	.00	.00	.00	.14	3.29	5.25	1.15

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	13.6	8.98	5.51	6.33	6.66	6.18	4.52	3.88	7.16	14.1	21.1	18.5
MAX	21.1	51.3	36.8	24.4	38.4	41.8	14.9	20.1	22.0	33.0	42.4	30.3
(WY)	1991	1998	1998	1998	1998	1998	1993	1991	1996	1995	1999	1993
MIN	5.08	.092	.35	.22	.000	.005	.000	.000	.12	1.43	2.56	.93
(WY)	1997	1997	1997	1997	1997	1997	1999	1999	1998	1998	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	4909.06		3085.95			
ANNUAL MEAN	13.4		8.45		9.73	
HIGHEST ANNUAL MEAN					20.9	1998
LOWEST ANNUAL MEAN					4.18	1997
HIGHEST DAILY MEAN	151	Mar 20	127	Aug 23	240	Jun 26 1992
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 17	.00	Mar 21	.00	Apr 21 1989
INSTANTANEOUS PEAK FLOW			149	Aug 23	258	Jun 25 1992
INSTANTANEOUS PEAK STAGE			20.20	Aug 23	21.01	Nov 13 1997
ANNUAL RUNOFF (CFSM)	1.44		.91		1.04	
ANNUAL RUNOFF (INCHES)	19.57		12.30		14.17	
10 PERCENT EXCEEDS	42		32		26	
50 PERCENT EXCEEDS	4.8		1.2		4.1	
90 PERCENT EXCEEDS	.00		.00		.01	

02300037 CEDAR CREEK NEAR SARASOTA, FL

LOCATION.--Lat 27°24'51", long 82°28'53", in NE 1/4 sec.27, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, at Palm Aire Country Club subdivision, 0.5 mi upstream from Braden River, 1.8 mi north of University Parkway, and 5.8 mi northeast of Sarasota.
DRAINAGE AREA.--0.94 mi^2.
PERIOD OF RECORD.--July 1988 to current year.
GAGE.--Water-stage recorder. Datum of gage is 10.09 ft below National Geodetic Vertical Datum of 1929.
REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.2	.55	1.1	.67	1.4	.52	.20	.08	.20	10	1.0	5.5
2	11	.54	1.1	.65	1.3	.49	.20	.08	.23	7.9	1.2	3.8
3	7.3	.54	1.1	3.0	1.4	.49	.17	.08	.29	10	1.4	2.5
4	4.9	3.8	1.1	1.7	1.3	.51	.17	.07	.50	19	9.2	1.9
5	3.6	14	1.0	1.1	1.2	.45	.18	.07	.58	9.1	11	1.5
6	2.8	6.8	.98	.79	1.0	.42	.17	.07	.92	9.3	42	3.2
7	2.2	4.4	.94	.70	.98	.37	.15	.07	.69	21	48	6.7
8	1.7	3.3	.93	.66	.98	.40	.15	.07	.66	9.4	14	11
9	1.4	2.8	.91	.67	.95	.40	.16	.07	.63	8.3	32	8.9
10	1.3	2.4	.90	1.0	.91	.41	.16	.07	.68	7.7	46	5.8
11	1.1	2.0	.88	1.0	.84	.38	.17	.06	.70	6.1	14	4.0
12	1.1	1.9	.89	.79	.82	.36	.18	.07	.63	4.1	16	3.1
13	1.0	1.8	1.1	.68	.73	.36	.17	.06	1.1	3.6	13	2.3
14	.96	1.7	1.4	.60	.61	.33	.14	.10	5.3	11	8.5	1.8
15	.96	1.8	1.1	.57	.52	.39	.14	.24	1.5	18	7.5	1.6
16	.91	1.8	.88	.57	.50	.40	.14	.15	1.1	7.7	6.9	1.4
17	.93	1.7	.77	.63	.50	.39	.22	.12	1.1	5.0	18	1.3
18	1.0	1.6	.74	.69	.50	.38	.24	.12	1.5	3.2	10	1.3
19	.86	1.6	.73	.63	.50	.34	.20	.10	1.3	2.5	16	1.5
20	.81	1.5	.75	.59	.48	.30	.18	.10	1.6	2.2	9.9	4.3
21	1.0	1.5	.81	.57	.44	.28	.18	.10	2.3	1.9	7.9	12
22	1.6	1.5	.75	.57	.39	.27	.18	.14	2.1	1.7	22	6.9
23	1.1	1.6	.73	.86	.39	.26	.17	.23	5.3	1.5	83	4.2
24	.87	1.5	.71	18	.39	.25	.15	.24	14	1.4	41	2.8
25	.77	1.5	.66	6.4	.39	.23	.13	.23	7.5	1.3	16	2.0
26	.72	1.4	.66	3.8	.39	.24	.13	.23	7.1	1.2	10	1.6
27	.68	1.4	.66	2.5	.39	.22	.12	.20	5.8	1.2	9.4	1.6
28	.63	1.3	.70	1.8	.41	.20	.11	.19	4.7	1.2	7.3	1.4
29	.62	1.3	.71	1.6	---	.19	.10	.17	3.5	1.1	6.9	1.3
30	.59	1.2	.74	1.5	---	.20	.09	.19	3.5	1.1	9.2	1.2
31	.58	---	.71	1.4	---	.20	---	.22	---	1.0	7.5	---
TOTAL	63.19	70.73	27.14	56.69	20.61	10.63	4.85	3.99	77.01	189.7	545.8	108.4
MEAN	2.04	2.36	.88	1.83	.74	.34	.16	.13	2.57	6.12	17.6	3.61
MAX	11	14	1.4	18	1.4	.52	.24	.24	14	21	83	12
MIN	.58	.54	.66	.57	.39	.19	.09	.06	.20	1.0	1.0	1.2
CFSM	2.17	2.51	.93	1.95	.78	.36	.17	.14	2.73	6.51	18.7	3.84
IN.	2.50	2.80	1.07	2.24	.82	.42	.19	.16	3.05	7.51	21.60	4.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	2.47	2.36	1.67	2.03	1.50	1.85	1.35	1.11	3.14	3.98	6.00	5.24
MAX	6.34	15.0	13.3	7.99	8.28	11.8	3.58	4.62	14.8	8.07	17.6	11.7
(WY)	1996	1998	1998	1998	1998	1998	1997	1991	1992	1997	1999	1998
MIN	.10	.000	.015	.011	.23	.25	.13	.028	.16	1.13	1.41	.37
(WY)	1992	1992	1992	1992	1994	1989	1989	1989	1998	1989	1990	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	1530.14		1178.74			
ANNUAL MEAN	4.19		3.23		2.73	
HIGHEST ANNUAL MEAN					6.42	1998
LOWEST ANNUAL MEAN					.84	1990
HIGHEST DAILY MEAN	103	Mar 20	83	Aug 23	151	Jun 26 1992
LOWEST DAILY MEAN	.01	Jul 3	.06	May 11	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.01	Jul 2	.07	May 7	.00	Mar 30 1989
INSTANTANEOUS PEAK FLOW			110	Aug 23	238	Jun 25 1992
INSTANTANEOUS PEAK STAGE			18.57	Aug 23	21.47	Jun 25 1992
ANNUAL RUNOFF (CFSM)	4.46		3.44		2.91	
ANNUAL RUNOFF (INCHES)	60.55		46.65		39.49	
10 PERCENT EXCEEDS	7.3		9.0		5.8	
50 PERCENT EXCEEDS	1.2		.98		.79	
90 PERCENT EXCEEDS	.13		.17		.12	

02300038 RATTLESNAKE SLOUGH NEAR SARASOTA, FL

LOCATION.--Lat 27°25'24", long 82°29'25", in SW$^1/_4$ sec.22, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on right bank, at Palm Aire Country Club subdivision, 0.6 mi upstream from Braden River, 2.4 mi north of University Parkway, and 5.2 mi northeast of Sarasota.

DRAINAGE AREA.--3.78 mi^2.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.82 ft below National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	.26	.61	.54	1.2	.15	.44	.06	.22	7.9	1.3	e1.7
2	6.4	.24	.55	.46	1.2	.59	.10	.00	.26	10	1.3	e1.5
3	5.5	.22	.49	3.0	1.5	.66	.01	.03	.68	9.3	1.7	e1.3
4	4.3	3.3	.45	2.8	1.3	.24	.00	.03	2.3	17	9.7	e1.1
5	3.7	14	.33	1.5	1.1	.48	.00	.01	3.6	14	18	e1.0
6	e3.2	6.0	.44	.96	.83	.66	.00	.02	6.6	11	e30	e1.5
7	e2.7	3.6	.38	.76	.76	.67	.22	.00	2.6	18	e20	e2.5
8	e2.1	2.6	.32	.67	.73	.37	.37	.00	1.5	15	e14	e4.5
9	e1.8	2.2	.29	.60	.69	.73	.09	.00	1.1	15	e16	e3.0
10	1.7	1.7	.27	.82	.66	.72	.00	.00	1.8	9.8	e15	e2.8
11	1.5	1.5	.26	.88	.62	.18	.00	.00	1.7	6.8	e9.0	e1.8
12	1.5	1.4	.23	.70	.54	.50	.00	.00	1.6	5.2	e6.0	e1.5
13	1.5	1.2	.39	.56	.49	.47	.00	.00	2.5	5.1	e5.0	e1.2
14	1.3	1.2	.80	.49	.32	.15	.00	.04	13	13	e5.2	e.92
15	1.2	1.1	.78	.44	.22	.19	.00	1.2	11	20	e5.5	e.80
16	1.1	1.1	.69	.43	.21	.56	.06	.30	6.1	11	e7.0	e.64
17	.98	1.1	.58	.40	.20	.68	.49	.06	7.8	6.0	e9.0	e.55
18	1.2	1.0	.47	.40	.47	.47	.54	.00	12	4.9	e11	e.45
19	1.3	1.0	.37	.39	.59	.26	.19	.00	7.8	6.4	15	e.50
20	1.3	.99	.31	.29	.52	.48	.16	.03	8.1	4.0	9.0	e2.0
21	2.1	.93	.24	.32	.19	.95	.16	.06	15	2.7	6.3	e10
22	3.6	.88	.21	.30	.47	.41	.16	.35	10	2.0	11	e5.0
23	2.2	.85	.17	.67	.54	.26	.14	.41	9.9	1.7	49	e3.0
24	1.3	.83	.17	15	.58	.31	.03	.31	25	1.5	e20	e2.0
25	.78	.86	.14	5.5	.55	.27	.00	.16	16	1.3	e12	e1.5
26	.50	.82	.15	3.0	.57	.39	.00	.03	14	1.1	e8.0	e1.0
27	.34	.80	.19	2.2	.53	.13	.01	.08	13	1.3	e6.0	e1.1
28	.28	.74	.22	1.8	.12	.08	.04	.10	8.8	1.4	e4.5	e1.2
29	.27	.69	.27	1.5	---	.04	.03	.03	6.4	1.4	e3.2	e1.0
30	.25	.67	.45	1.3	---	.01	.20	.00	5.3	1.5	e2.5	e.90
31	.25	---	.50	1.2	---	.00	---	.42	---	1.4	e2.0	---
TOTAL	61.35	53.78	11.72	49.88	17.70	12.06	3.44	3.73	215.66	226.7	333.2	57.96
MEAN	1.98	1.79	.38	1.61	.63	.39	.11	.12	7.19	7.31	10.7	1.93
MAX	6.4	14	.80	15	1.5	.95	.54	1.2	25	20	49	10
MIN	.25	.22	.14	.29	.12	.00	.00	.00	.22	1.1	1.3	.45
CFSM	.52	.47	.10	.43	.17	.10	.03	.03	1.90	1.93	2.84	.51
IN.	.60	.53	.12	.49	.17	.12	.03	.04	2.12	2.23	3.28	.57

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	5.15	3.23	4.08	4.84	2.97	4.28	2.67	1.70	6.74	6.25	8.12	9.13
MAX	16.5	21.4	31.0	26.2	16.4	28.9	7.40	8.73	32.2	15.9	21.1	31.1
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1992	1992	1992	1989
MIN	.44	.002	.000	.000	.20	.19	.016	.000	.003	2.22	1.66	.63
(WY)	1992	1992	1992	1992	1989	1997	1989	1990	1990	1993	1990	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	3010.27		1047.18			
ANNUAL MEAN	8.25		2.87		4.94	
HIGHEST ANNUAL MEAN					12.7	1998
LOWEST ANNUAL MEAN					1.78	1990
HIGHEST DAILY MEAN	210	Mar 20	49	Aug 23	481	Jun 26 1992
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 15	.00	May 7	.00	Feb 17 1989
INSTANTANEOUS PEAK FLOW			51	Aug 23	567	Jun 26 1992
INSTANTANEOUS PEAK STAGE			22.49	Aug 23	26.13	Jun 26 1992
ANNUAL RUNOFF (CFSM)	2.18		.76		1.31	
ANNUAL RUNOFF (INCHES)	29.62		10.31		17.75	
10 PERCENT EXCEEDS	18		9.7		12	
50 PERCENT EXCEEDS	1.8		.82		1.1	
90 PERCENT EXCEEDS	.00		.04		.00	

02300039 NONSENSE CREEK NEAR BRADENTON, FL

LOCATION.--Lat 27°26'04", long 82°28'04", in SE$^1/_4$ sec.14, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, 0.7 mi south of State Highway 70, 0.9 mi upstream from Ward Lake, and 9.0 mi southeast of Bradenton.

DRAINAGE AREA.--1.14 mi^2.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3.66 ft below National Geodetic Vertical Datum of 1929. Prior to Aug. 5, 1993, at site 110 ft downstream at same datum.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	.18	.07	.10	.13	.14	.07	.00	.00	2.0	.12	2.0
2	1.4	.18	.07	.10	.14	.12	.07	.00	.00	3.1	.12	1.7
3	1.0	.20	.07	.08	.15	.13	.06	.00	.00	3.8	.25	1.2
4	.78	.37	.07	.11	.13	.11	.06	.00	.00	12	13	.74
5	.65	1.6	.08	.12	.13	.08	.05	.00	.00	16	33	.55
6	.50	.68	.10	.12	.11	.12	.05	.00	.00	7.0	72	1.5
7	.44	.44	.10	.09	.10	.14	.05	.00	.00	6.0	58	7.6
8	.33	.32	.10	.07	.10	.12	.05	.00	.00	3.3	10	16
9	.30	.26	.10	.07	.10	.10	.04	.00	.00	6.8	6.5	9.0
10	.27	.22	.08	.07	.12	.10	.03	.00	.00	12	7.5	4.8
11	.25	.19	.10	.07	.12	.09	.02	.00	.00	5.1	3.9	3.4
12	.24	.16	.10	.07	.12	.09	.02	.00	.00	3.2	9.5	2.4
13	.25	.15	.10	.07	.11	.09	.00	.00	.00	2.9	5.6	1.6
14	.26	.13	.10	.08	.11	.10	.00	.00	.00	3.2	3.2	1.0
15	.26	.11	.10	.07	.07	.10	.00	.00	.00	2.9	2.7	.67
16	.26	.11	.10	.10	.13	.10	.00	.00	.00	2.3	6.8	.46
17	.22	.15	.10	.10	.10	.09	.01	.00	.00	1.8	41	.31
18	.19	.20	.10	.10	.10	.07	.02	.00	.69	1.4	33	.27
19	.18	.16	.10	.10	.13	.07	.00	.00	1.1	1.0	121	.31
20	.19	.14	.10	.10	.15	.07	.00	.00	2.3	.79	96	2.7
21	.21	.11	.10	.10	.14	.09	.00	.00	2.5	.62	89	8.6
22	.25	.09	.10	.10	.13	.08	.00	.00	1.1	.50	89	5.9
23	.21	.08	.10	.10	.12	.07	.00	.00	.78	.43	77	3.8
24	.19	.07	.10	.63	.13	.07	.00	.00	.70	.32	27	2.7
25	.19	.08	.10	.37	.12	.07	.00	.00	.98	.23	9.0	1.9
26	.20	.07	.10	.35	.12	.07	.00	.00	4.1	.18	5.1	1.5
27	.19	.07	.10	.24	.13	.07	.00	.00	7.3	.17	3.4	1.5
28	.20	.07	.10	.19	.14	.07	.00	.00	2.8	.15	2.5	1.4
29	.20	.07	.10	.16	---	.07	.00	.00	1.9	.13	3.1	.97
30	.19	.07	.10	.14	---	.07	.00	.00	1.6	.13	2.8	.61
31	.19	---	.10	.14	---	.07	---	.00	---	.12	2.4	---
TOTAL	11.99	6.73	2.94	4.31	3.38	2.83	0.60	0.00	27.85	99.57	833.49	87.09
MEAN	.39	.22	.095	.14	.12	.091	.020	.000	.93	3.21	26.9	2.90
MAX	1.8	1.6	.10	.63	.15	.14	.07	.00	7.3	16	121	16
MIN	.18	.07	.07	.07	.07	.07	.00	.00	.00	.12	.12	.27
MED	.25	.15	.10	.10	.12	.09	.00	.00	.00	2.0	7.5	1.5
CFSM	.34	.20	.08	.12	.11	.08	.02	.00	.81	2.82	23.6	2.55
IN.	.39	.22	.10	.14	.11	.09	.02	.00	.91	3.25	27.20	2.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1999, BY WATER YEAR (WY)

MEAN	1.66	1.26	1.84	2.29	1.03	1.81	.64	.29	3.91	2.10	6.25	5.43
MAX	5.45	10.6	17.9	16.9	8.12	17.2	2.67	1.40	24.9	4.70	26.9	13.7
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1992	1997	1999	1989
MIN	.015	.000	.000	.000	.000	.001	.000	.000	.000	.054	.12	.000
(WY)	1992	1990	1994	1992	1989	1989	1989	1989	1989	1998	1993	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1989 - 1999	
ANNUAL TOTAL	1594.60		1080.78			
ANNUAL MEAN	4.37		2.96		2.38	
HIGHEST ANNUAL MEAN					6.75	1998
LOWEST ANNUAL MEAN					.33	1990
HIGHEST DAILY MEAN	196	Mar 20	121	Aug 19	368	Jun 26 1992
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 27	.00	Apr 19	.00	Oct 14 1988
INSTANTANEOUS PEAK FLOW			229	Aug 19	710	Jun 25 1992
INSTANTANEOUS PEAK STAGE			19.41	Aug 19	21.13	Jun 25 1992
ANNUAL RUNOFF (CFSM)	3.83		2.60		2.09	
ANNUAL RUNOFF (INCHES)	52.03		35.27		28.38	
10 PERCENT EXCEEDS	4.8		3.8		3.3	
50 PERCENT EXCEEDS	.10		.12		.09	
90 PERCENT EXCEEDS	.00		.00		.00	

02300042 WARD LAKE OUTFALL NEAR BRADENTON, FL

LOCATION.--Lat 27°26'28", long 82°29'16", 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^2, approximately.

PERIOD OF RECORD.--April 1992 to current year.

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

REMARKS.--Records fair. Discharge affected by diversion by city of Bradenton. Records of gage height are published as elevations for Ward Lake (station 02300042) in the section of this report entitled LAKE ELEVATIONS.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	.32	.34	.00	1.2	.00	.00	.00	.00	281	2.6	112
2	302	.21	.26	.00	5.9	.00	.00	.00	.00	346	13	95
3	229	.12	.13	.00	4.5	.00	.00	.00	.00	200	25	75
4	152	8.1	.02	.00	1.8	.00	.00	.00	.00	243	217	61
5	113	186	.00	.00	1.0	.00	.00	.00	.00	308	313	49
6	88	295	.00	.00	.83	.00	.00	.00	.00	240	653	73
7	72	174	.00	.00	.70	.00	.00	.00	.00	247	1040	113
8	56	97	.00	.00	.64	.00	.00	.00	.00	171	512	182
9	44	66	.00	.00	.55	.00	.00	.00	.00	177	383	153
10	27	44	.00	.00	.47	.00	.00	.00	.00	415	580	98
11	19	27	.00	.00	.38	.00	.00	.00	.00	250	309	75
12	11	19	.00	.00	.35	.00	.00	.00	.00	127	281	65
13	8.1	12	.00	.00	.11	.00	.00	.00	.00	112	232	53
14	9.6	10	.00	.00	.00	.00	.00	.00	.00	226	175	41
15	24	6.2	.00	.00	.00	.00	.00	.00	.00	247	299	33
16	24	5.3	.00	.00	.00	.00	.00	.00	.00	156	278	28
17	15	3.5	.00	.00	.00	.00	.00	.00	.00	112	869	23
18	8.3	1.6	.00	.00	.00	.00	.00	.00	.00	79	569	18
19	2.2	1.1	.00	.00	.00	.00	.00	.00	.00	58	1480	10
20	1.0	1.1	.00	.00	.00	.00	.00	.00	.00	44	1110	87
21	2.3	1.1	.00	.00	.00	.00	.00	.00	.00	29	693	260
22	8.2	1.1	.00	.00	.00	.00	.00	.00	.00	23	790	185
23	35	1.1	.00	.00	.00	.00	.00	.00	.00	18	2560	114
24	32	.92	.00	49	.00	.00	.00	.00	41	14	1740	85
25	14	.76	.00	83	.00	.00	.00	.00	229	7.9	819	66
26	5.8	.65	.00	37	.00	.00	.00	.00	116	2.8	501	49
27	1.4	.64	.00	17	.00	.00	.00	.00	179	8.3	358	47
28	.74	.56	.00	7.2	.00	.00	.00	.00	217	3.8	317	48
29	.56	.52	.00	2.1	---	.00	.00	.00	112	1.2	282	39
30	.48	.44	.00	1.4	---	.00	.00	.00	63	1.1	234	33
31	.40	---	.00	1.0	---	.00	---	.00	---	1.1	166	---
TOTAL	1462.08	965.34	0.75	197.70	18.43	0.00	0.00	0.00	957.00	4149.2	17800.6	2370
MEAN	47.2	32.2	.024	6.38	.66	.000	.000	.000	31.9	134	574	79.0
MAX	302	295	.34	83	5.9	.00	.00	.00	229	415	2560	260
IN.	.91	.60	.00	.12	.01	.00	.00	.00	.60	2.59	11.13	1.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

MEAN	69.8	87.2	59.8	64.8	39.4	64.5	28.3	11.5	54.3	142	231	164
MAX	140	452	408	261	243	361	127	46.4	163	293	574	243
(WY)	1996	1998	1998	1998	1998	1998	1993	1997	1996	1995	1999	1998

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1993 - 1999	
ANNUAL TOTAL	37412.72		27921.10			
ANNUAL MEAN	103		76.5		85.1	
HIGHEST ANNUAL MEAN					173	1998
HIGHEST DAILY MEAN	4090	Mar 20	2560	Aug 23	4580	Nov 14 1997
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 18	.00	Dec 5	.00	Nov 8 1992
INSTANTANEOUS PEAK FLOW			2750	Aug 23	7350	Jun 26 1992
INSTANTANEOUS PEAK STAGE			4.89	Aug 23	5.67	Jun 26 1992
ANNUAL RUNOFF (INCHES)	23.39		17.46		19.43	
10 PERCENT EXCEEDS	221		233		238	
50 PERCENT EXCEEDS	3.5		.12		3.8	
90 PERCENT EXCEEDS	.00		.00		.00	

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL

LOCATION.--Lat 27°26'44", long 82°29'28", in NW$^1/_4$ sec.15, T.35 S., R.18 E., Manatee County, Hydrologic Unit 03100202, on right bank, 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^2, approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--April 1992 to current year (gage heights 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 State Highway 70 bridge, 250 ft downstream at same datum.

REMARKS.--Interruptions in record were due to malfunctions of the instruments.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.31 ft, Oct. 7, 1996; minimum, 8.38 ft, Feb. 5, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.60 ft, Jan. 3; minimum, 8.74 ft, Feb. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.44	10.04	11.71	10.04	---	---	11.81	9.08	12.02	9.30	12.18	9.51
2	12.05	9.95	11.85	10.02	---	---	12.38	9.30	12.39	9.62	12.06	9.63
3	12.17	9.81	11.96	9.91	---	---	13.60	9.55	11.97	9.61	12.01	10.14
4	12.18	9.91	12.20	9.80	---	---	12.01	9.21	11.69	9.56	11.34	9.51
5	12.11	9.79	11.14	9.68	---	---	10.88	8.99	11.42	9.62	11.33	9.44
6	11.87	9.56	11.03	9.54	---	---	10.57	9.03	11.49	9.65	11.46	9.77
7	12.07	9.62	11.27	9.22	---	---	10.82	9.20	11.70	9.98	11.38	9.61
8	---	---	11.14	9.23	---	---	11.28	9.78	11.55	10.07	10.90	9.10
9	---	---	11.42	9.53	---	---	12.25	10.10	11.69	9.93	11.71	9.28
10	---	---	11.27	9.57	---	---	10.85	9.66	11.48	9.50	11.58	9.94
11	---	---	11.37	9.80	---	---	10.64	9.10	11.78	9.29	11.29	9.79
12	---	---	11.09	9.70	---	---	11.48	9.22	11.86	9.36	11.36	9.37
13	---	---	11.10	9.89	---	---	11.67	9.56	11.82	9.54	12.01	9.22
14	---	---	11.40	10.06	---	---	12.14	9.38	11.39	8.74	12.35	9.77
15	---	---	11.55	9.84	---	---	12.08	9.43	11.45	8.99	12.35	10.16
16	---	---	11.78	9.59	11.38	9.14	11.80	9.24	11.72	9.32	11.32	9.00
17	---	---	11.83	9.54	11.55	9.23	11.95	9.33	12.32	9.62	11.53	9.32
18	---	---	11.42	9.37	11.71	9.01	11.96	9.41	12.44	9.96	11.65	9.49
19	---	---	11.45	9.19	11.81	9.33	11.97	9.30	12.09	10.06	11.74	9.57
20	11.62	9.68	11.74	9.29	11.95	9.17	11.82	9.34	11.69	9.78	11.82	9.54
21	11.53	9.59	11.68	9.26	12.03	9.27	11.69	9.43	11.55	9.77	12.15	9.54
22	11.51	9.43	11.22	9.05	11.78	9.46	11.78	9.56	11.23	9.44	11.59	9.72
23	10.60	8.83	11.34	9.19	11.40	9.16	11.50	9.73	11.61	9.25	11.63	9.33
24	11.26	9.24	11.16	9.25	11.53	9.46	11.74	9.91	11.56	9.33	11.46	9.27
25	11.52	9.32	---	---	11.29	9.47	11.09	9.29	11.69	9.29	11.53	9.28
26	11.46	9.46	---	---	11.10	9.46	11.22	9.15	11.92	9.19	11.31	9.27
27	11.58	9.45	---	---	11.36	9.51	11.78	9.09	11.98	9.35	10.99	9.23
28	11.79	9.87	---	---	11.84	9.50	12.10	9.19	12.05	9.60	11.30	9.02
29	11.71	10.05	---	---	12.48	9.68	12.21	9.25	---	---	11.32	9.20
30	11.69	10.07	---	---	12.30	9.89	12.21	9.29	---	---	11.39	9.39
31	11.70	10.02	---	---	11.69	9.18	12.14	9.32	---	---	11.50	9.58
MONTH	---	---	---	---	---	---	13.60	8.99	12.44	8.74	12.35	9.00

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.76	9.66	11.76	9.38	11.80	9.32	11.99	9.30	11.98	9.74	11.86	9.94
2	11.43	9.48	11.76	9.40	12.07	9.32	11.90	9.63	11.78	9.85	11.69	9.72
3	11.46	9.40	12.00	9.43	11.84	9.36	11.82	9.46	11.78	9.88	11.69	9.79
4	11.64	9.49	12.22	9.57	11.68	9.28	11.70	9.70	11.64	9.96	12.18	9.88
5	11.56	9.48	12.13	9.92	11.68	9.33	11.37	9.87	12.07	10.04	12.45	9.95
6	11.67	9.50	12.22	9.85	11.02	9.38	11.51	9.80	12.38	10.97	12.81	10.02
7	11.58	9.32	12.48	9.93	11.01	9.30	11.79	10.11	12.26	10.17	12.37	9.99
8	11.60	9.48	11.72	9.63	11.23	9.53	11.96	9.98	12.23	9.72	12.63	10.11
9	11.63	9.57	11.60	9.71	11.47	9.65	12.03	9.73	12.54	9.96	12.64	10.19
10	11.46	9.65	11.45	9.72	11.77	9.58	12.24	9.77	12.68	9.93	12.57	10.24
11	11.53	9.56	11.70	9.81	11.85	9.36	12.40	9.57	12.73	9.93	12.24	10.19
12	11.41	9.84	11.76	9.87	12.10	9.36	12.40	9.44	12.23	9.83	11.91	10.08
13	11.44	9.47	11.94	9.66	12.10	9.31	12.43	9.52	12.00	9.86	11.76	9.93
14	11.60	9.62	12.37	9.90	12.22	9.31	12.51	9.69	12.20	10.04	11.49	9.83
15	12.41	10.26	12.09	9.43	12.26	9.38	12.28	9.63	12.05	10.13	11.83	10.58
16	12.13	9.37	12.14	9.30	12.43	9.32	11.96	9.62	11.60	10.09	12.11	10.28
17	11.45	9.06	12.19	9.31	12.51	9.41	11.73	9.53	11.69	10.18	11.86	10.08
18	11.31	9.11	12.31	9.30	11.50	9.55	11.54	9.69	11.88	10.21	12.18	10.12
19	11.44	9.09	12.28	9.40	11.44	9.41	11.18	9.74	11.88	10.66	12.65	10.57
20	11.76	9.09	11.99	9.46	10.98	9.59	11.24	10.01	11.77	10.38	12.55	11.36
21	11.73	9.19	11.69	9.42	11.25	9.71	11.19	9.90	11.73	10.01	12.98	10.45
22	11.72	9.31	11.20	9.42	11.11	9.76	11.40	9.84	11.80	9.97	12.18	10.16
23	11.38	9.41	11.25	9.49	11.35	9.73	11.66	9.56	12.27	11.00	12.20	9.96
24	11.15	9.38	11.38	9.86	11.60	9.62	11.89	9.58	12.31	10.20	12.57	10.11
25	11.45	9.58	11.57	9.80	11.79	9.58	12.05	9.57	12.36	9.90	12.63	10.25
26	11.73	9.77	11.42	9.65	11.81	9.46	12.04	9.45	12.24	9.83	12.49	10.06
27	11.84	10.11	11.65	9.52	12.09	9.61	12.17	9.44	12.31	9.87	12.28	10.00
28	12.02	10.16	11.61	9.47	12.00	9.48	12.25	9.58	---	---	12.17	9.90
29	12.06	9.96	11.67	9.24	12.19	9.40	12.31	9.63	---	---	12.33	10.03
30	12.22	9.84	11.61	9.27	12.14	9.31	12.02	9.60	---	---	12.30	9.91
31	---	---	11.81	9.32	---	---	12.18	9.74	11.70	9.76	---	---
MONTH	12.41	9.06	12.48	9.24	12.51	9.28	12.51	9.30	---	---	12.98	9.72

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1993 to current year. 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 probes located 3.0 ft above the bottom and 1.0 ft above the bottom. Prior of June 5, 1998, probes 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.--Interruptions in record were due to malfunctions of the instruments. 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 probe maximum, 39,700 microsiemens, May 11, 1999; bottom probe maximum, 42,900 microsiemens, May 22, 1999; top probe minimum, 101 microsiemens, Nov. 15, 1997; bottom probe minimum, 86 microsiemens, Nov. 24, 1997.

TEMPERATURE.--Top probe maximum, 38.2°C, June 5, 1998; bottom probe maximum, 35.2°C, Aug. 16, 1998; top probe minimum, 11.1°C, Feb. 5, 1996; bottom probe minimum, 12.0°C, Jan. 11, 1996.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 39,700 microsiemens, May 11; bottom probe maximum, 42,900 microsiemens, May 22; top probe minimum, 238 microsiemens, June 29; bottom probe minimum, 201 microsiemens, Aug. 24.

TEMPERATURE.--Top probe maximum, 34.5°C, July 20; bottom probe maximum, 33.8°C, Aug. 2; top probe minimum, 12.3°C, Jan. 6; bottom probe minimum, 14.2°C, Jan. 6.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(3 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	496	270	13700	10600	---	---	23800	20700	14600	8230	26900	25200
2	412	274	14400	11900	---	---	24700	21900	15900	9760	27400	25800
3	367	280	15300	12900	---	---	26100	21800	16400	7740	28600	25700
4	363	290	15900	7850	---	---	23200	18300	15900	8490	28100	26300
5	356	291	11900	430	---	---	20500	17200	15100	3390	27600	26500
6	380	300	728	321	---	---	19300	17200	15000	4380	28700	26500
7	404	309	425	310	---	---	19800	16200	16000	11000	28300	26800
8	---	---	435	338	---	---	22100	18800	18000	13500	27500	23000
9	---	---	443	373	---	---	23200	20000	17800	12200	28400	24600
10	---	---	538	389	---	---	21700	18700	16800	12900	30000	23800
11	---	---	817	408	---	---	20300	17600	19300	12100	28900	23300
12	---	---	1460	454	---	---	20000	17500	20700	14500	30200	23600
13	---	---	3310	555	---	---	21300	18600	21000	17300	29700	19800
14	---	---	6920	731	---	---	22700	16500	18800	16600	31600	20400
15	---	---	7640	1240	20700	17000	22200	17100	19000	16000	31600	28900
16	---	---	8800	1400	20400	18500	22100	15500	21000	16200	31000	26100
17	---	---	8800	1480	21600	19000	22200	19200	22200	19300	30500	26200
18	---	---	8930	2200	21100	19200	22200	18800	23800	19600	31200	21500
19	---	---	9550	2570	23200	19900	22000	17900	24100	20300	31400	23800
20	---	---	10100	2570	23600	20800	22200	18600	23800	19500	30900	22800
21	---	---	10900	2780	23500	20600	22200	18700	23100	20400	31800	23300
22	---	---	11200	4400	23900	21900	22400	19400	22700	22000	31200	17200
23	2770	628	---	---	23300	21800	22400	19900	23500	20700	30700	22700
24	1040	434	---	---	24000	21400	22600	534	25200	22300	31700	24700
25	2010	446	---	---	25300	21400	830	410	25400	23100	32200	26400
26	2440	917	---	---	25000	23300	1860	363	26200	22200	32000	25000
27	6910	1240	---	---	24700	22100	8640	544	27100	22800	32600	23400
28	10400	2640	---	---	23400	19600	11800	841	27100	23100	28600	25300
29	13400	5690	---	---	25500	20700	13800	889	---	---	28800	26000
30	14600	8320	---	---	24500	20300	14300	1500	---	---	30000	26500
31	15100	9350	---	---	23500	19900	14700	2220	---	---	30400	27000
MONTH	---	---	---	---	---	---	26100	363	27100	3390	32600	17200

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(3 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	30400	21700	36400	28600	37500	31100	774	430	---	---	406	270
2	31000	22700	36400	32400	38900	26500	678	372	---	---	395	279
3	31300	22500	36200	32600	39200	34700	534	349	---	---	473	291
4	31400	23000	36000	33100	38500	32600	610	330	---	---	436	316
5	31600	27000	37200	35700	38200	22200	440	342	---	---	496	312
6	32000	29700	37800	33900	33900	13600	470	338	---	---	810	386
7	32000	30000	38800	34800	---	---	536	318	---	---	513	320
8	32300	31200	38300	33800	---	---	620	334	---	---	444	308
9	32900	30600	38400	37100	---	---	548	356	---	---	429	300
10	33300	31800	38500	36700	---	---	493	343	---	---	455	313
11	33400	31900	39700	36200	33700	29400	615	332	---	---	461	302
12	33600	32300	38600	32800	33300	28700	475	319	---	---	451	324
13	34300	32100	38800	32800	---	---	507	320	---	---	453	355
14	33600	29100	39500	32900	---	---	469	315	---	---	442	385
15	34100	30600	38200	29400	34300	24100	434	314	---	---	551	431
16	34900	32900	36700	29500	33500	25300	430	324	---	---	565	410
17	35400	32300	35200	30400	32400	26100	420	337	---	---	798	387
18	33800	29900	34500	25500	32000	24200	481	358	---	---	2020	599
19	35100	28200	---	---	30300	22500	505	375	---	---	8570	1500
20	34600	29700	36800	30700	27300	22200	603	364	---	---	10700	2060
21	33400	22100	36200	30300	22400	13000	636	410	---	---	12600	455
22	34400	26000	39100	34200	24000	9600	622	462	---	---	624	341
23	33900	27700	38900	34000	24500	13900	---	---	---	---	531	348
24	33600	25100	38000	35100	26000	3180	---	---	---	---	859	405
25	33500	24900	38500	28000	5360	707	---	---	---	---	1250	466
26	33800	24800	38200	26800	1680	646	---	---	---	---	1810	620
27	35700	30500	38200	27300	1900	669	---	---	---	---	3680	698
28	36500	30700	37800	22900	1910	508	---	---	---	---	4000	678
29	36900	26700	37400	32000	841	238	---	---	---	---	4250	1070
30	36400	34700	37400	32200	785	464	---	---	---	---	4480	1340
31	---	---	37400	32000	---	---	---	---	411	261	---	---
MONTH	36900	21700	---	---	---	---	---	---	---	---	12600	270

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1130	391	15200	11400	16300	13200	26500	23600	16600	9940	27000	21700
2	1320	342	15500	12600	16800	13200	27100	23800	17700	11800	27700	23000
3	1280	383	16500	13400	17600	14000	27900	21500	18300	13400	28600	25000
4	1580	354	17300	12400	18400	16400	26900	17800	17700	14600	27800	25500
5	760	377	13800	474	19800	17100	23200	16800	17100	8790	27800	26300
6	1400	422	768	350	20700	16900	21800	18600	16700	8550	28900	26600
7	1100	420	499	333	20700	18100	23600	16700	18200	14200	28100	24300
8	---	---	464	381	22300	18400	25400	19000	20700	15800	27000	18100
9	---	---	521	394	22000	18800	26800	21200	21400	16700	28700	22100
10	---	---	557	405	21900	18500	25000	23200	19400	16200	30200	26500
11	---	---	1500	440	21700	19100	24000	21800	21300	14600	28900	25600
12	---	---	4610	499	22400	19200	23300	19900	22100	16500	30500	24300
13	---	---	7230	600	24200	21000	26300	20000	22200	17900	31200	25300
14	---	---	9360	892	23100	18500	26900	19700	19000	17700	31700	23700
15	---	---	9670	1330	21000	17700	26700	21300	20200	16700	31700	23500
16	---	---	10300	1670	21400	18100	26400	21500	22400	16900	30700	24800
17	---	---	10400	2610	22800	18300	26600	22100	24200	19700	30600	26300
18	---	---	10800	3150	22800	17000	26600	23200	24700	21800	31600	26300
19	---	---	10900	3060	24500	21000	26900	24800	24700	22500	31400	19900
20	4570	1530	11500	3300	25100	21600	27100	24200	24700	22100	32200	25900
21	5120	1700	12200	4000	25100	22100	27600	25800	23600	19300	33000	25700
22	6120	1400	12800	5120	25500	23200	27800	24500	23300	21300	31400	24000
23	2980	684	13200	5810	25300	22900	28700	27400	24200	20100	33000	23500
24	2900	472	14500	8820	25900	24000	28500	862	26400	21000	33300	26300
25	3830	504	15900	8190	26800	24000	2560	579	25900	22700	34200	25400
26	6340	985	16600	11400	26800	22500	6260	549	27000	21900	34100	27100
27	8550	1350	14400	10800	25300	20500	11400	709	27600	23100	32300	25400
28	12600	2950	14600	11600	26100	21900	14300	1890	27500	24100	31600	24900
29	16000	8360	16200	12000	28100	21500	15800	1840	---	---	31900	27900
30	17000	11300	16300	13400	28000	22400	16100	2590	---	---	32400	26600
31	16900	10700	---	---	26300	22300	16500	8680	---	---	32700	25700
MONTH	---	---	17300	333	28100	13200	28700	549	27600	8550	34200	18100

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	32700	23000	36800	23000	39100	35300	785	450	15800	12500	395	284
2	34000	25600	36500	22700	39400	36100	719	377	15000	11600	454	279
3	34100	25300	37500	29700	39900	35600	535	361	15000	3290	487	294
4	34200	24700	38200	31300	39300	34000	639	347	13700	448	466	322
5	34500	28300	38200	31100	39100	31300	457	353	559	381	507	318
6	34800	29500	39800	31700	37200	21100	496	354	783	361	834	381
7	34800	30900	41400	33500	34900	16500	588	343	460	300	581	338
8	35000	30200	41000	34200	35300	21000	621	346	505	273	455	308
9	35400	31800	41500	33700	35400	27400	568	348	447	277	427	301
10	35600	32100	41600	34100	35900	31500	483	344	433	280	502	311
11	35800	32100	42000	34900	35200	25900	752	343	513	287	473	309
12	34900	32300	42000	34600	34700	29800	526	327	449	284	455	330
13	35700	31600	42500	36700	34200	28000	514	336	468	289	447	350
14	35900	32200	42500	33000	34400	29500	665	317	433	292	450	387
15	36400	29900	40600	30100	34700	27300	465	318	406	298	556	431
16	36900	29800	39900	31500	34300	25700	470	326	440	306	567	427
17	35900	27600	39500	30600	33900	27200	434	335	422	309	868	408
18	35400	30400	38900	33400	33100	26500	537	353	501	306	2580	615
19	35300	28900	40100	34500	32100	26900	665	366	542	319	9210	1830
20	35600	28700	42400	36200	30900	23200	697	376	434	302	11800	2810
21	36000	28700	42400	36500	28500	23200	625	405	448	261	13500	499
22	36700	29900	42900	36000	27700	14700	622	453	404	253	697	379
23	37200	30800	42600	36100	25700	18200	2360	525	285	220	686	362
24	35500	29200	42100	36300	26700	5840	6790	1080	320	201	918	447
25	36100	31600	40900	34800	17300	794	9340	3960	378	213	1600	518
26	36200	30000	39700	32500	5410	726	10600	4370	356	230	1890	636
27	37500	31400	39900	34700	4870	723	11500	6010	351	242	3940	748
28	38000	34100	39400	32600	1020	519	12200	8120	413	256	4270	692
29	40200	33800	39700	33300	841	479	13300	9690	404	263	4540	1280
30	39100	27000	39200	30700	936	495	14500	10900	377	263	5740	1580
31	---	---	39000	34800	---	---	15200	12200	410	264	---	---
MONTH	40200	23000	42900	22700	39900	479	15200	317	15800	201	13500	279

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(3 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.8	27.3	27.8	25.0	25.4	22.9	21.5	18.6	24.2	21.4	21.5	19.2
2	30.3	27.7	27.3	24.6	25.9	22.9	21.5	19.7	23.8	22.6	22.6	19.5
3	32.6	27.7	25.9	24.6	25.9	23.0	21.5	20.1	25.0	21.8	21.3	19.3
4	30.4	27.7	25.4	22.2	25.9	23.4	20.7	17.2	25.9	22.6	20.1	18.4
5	31.4	27.7	24.2	22.6	26.8	23.0	18.4	12.8	25.7	22.6	20.8	17.8
6	30.6	27.7	23.8	21.6	26.3	23.8	17.8	12.3	25.9	21.2	21.5	18.4
7	32.0	28.4	23.0	21.1	26.5	23.7	17.5	14.0	25.6	24.2	21.9	19.1
8	---	---	24.2	21.0	26.9	23.7	17.8	15.4	25.9	24.6	22.2	19.3
9	---	---	23.8	21.4	27.3	23.7	19.6	16.0	25.9	23.0	22.6	19.3
10	---	---	24.2	21.5	26.7	24.2	18.8	16.9	25.9	23.8	23.4	20.5
11	---	---	27.6	22.2	25.6	23.8	17.9	14.2	26.3	21.6	23.0	20.6
12	---	---	26.3	23.0	25.4	23.0	18.2	15.0	25.5	22.6	23.0	19.9
13	---	---	26.8	23.0	25.0	24.2	17.9	15.8	25.0	20.7	23.4	19.9
14	---	---	25.9	23.0	24.2	21.1	18.8	16.3	21.0	19.1	22.1	21.5
15	---	---	25.9	22.5	21.7	17.1	19.8	17.2	20.2	17.5	21.5	19.2
16	---	---	26.3	23.0	21.1	18.1	21.0	17.7	21.1	18.1	21.9	16.7
17	---	---	26.8	23.0	20.1	18.4	22.1	19.4	21.9	18.9	21.9	18.5
18	---	---	27.3	23.0	19.4	17.2	21.9	20.1	22.6	19.7	22.2	19.4
19	---	---	27.7	24.2	20.1	18.0	22.6	20.8	22.6	21.1	23.0	20.5
20	27.7	25.5	27.7	23.8	22.2	18.7	22.6	21.2	21.6	19.6	23.4	21.5
21	28.7	25.9	28.3	23.9	23.0	20.2	23.8	20.7	21.1	19.4	23.4	21.5
22	28.2	25.9	26.8	23.8	22.9	20.7	23.8	21.8	19.6	18.1	23.5	20.9
23	26.3	23.4	27.3	23.4	24.2	21.5	23.8	22.6	19.4	16.9	24.2	20.7
24	25.9	22.9	27.5	25.0	25.0	21.9	23.4	20.0	19.1	16.4	23.8	20.6
25	26.8	22.6	27.7	24.4	26.3	22.2	22.3	19.2	19.2	16.6	24.2	21.0
26	26.3	22.6	27.7	25.0	24.2	22.4	21.9	18.2	20.1	16.9	23.9	21.8
27	26.5	22.6	27.4	24.6	23.4	21.3	21.9	18.0	21.1	17.6	23.8	21.3
28	27.3	23.8	27.7	22.8	21.8	20.7	22.2	18.3	21.5	19.0	24.2	20.6
29	27.3	25.5	26.3	23.5	22.6	20.4	22.6	18.2	---	---	25.5	21.5
30	27.3	25.4	26.5	23.3	21.8	19.7	23.8	18.3	---	---	24.6	22.6
31	27.7	25.0	---	---	21.1	17.9	24.2	20.4	---	---	24.1	23.0
MONTH	---	---	28.3	21.0	27.3	17.1	24.2	12.3	26.3	16.4	25.5	16.7

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.9	22.1	26.3	24.0	29.8	26.8	29.8	27.7	33.2	30.9	30.9	29.4
2	26.3	23.8	24.6	22.6	29.5	27.7	28.7	27.7	34.0	31.4	31.5	28.7
3	27.3	24.2	25.5	22.4	29.8	27.5	28.7	27.2	33.2	30.3	32.0	29.2
4	27.3	25.0	25.9	23.7	31.4	26.8	29.2	27.2	32.0	29.7	31.6	29.3
5	27.7	25.0	26.3	24.2	30.8	26.3	28.9	27.2	32.9	29.7	32.6	29.8
6	27.8	25.0	27.7	24.7	30.3	25.0	30.3	27.7	30.3	28.2	30.9	29.2
7	28.2	25.9	27.7	25.9	29.9	27.2	31.5	27.7	29.8	27.4	29.8	28.2
8	27.7	25.9	27.7	26.3	29.7	27.3	30.9	27.7	30.7	27.7	28.7	28.2
9	29.0	25.5	28.4	26.3	29.8	26.3	29.8	27.7	29.8	28.4	30.1	27.7
10	28.7	26.3	28.5	25.9	32.0	26.8	29.8	27.7	30.1	28.2	30.3	27.7
11	28.7	26.3	28.7	26.0	32.6	27.9	30.9	27.7	29.8	28.2	30.6	28.2
12	28.2	26.3	29.2	26.3	32.6	29.7	30.3	28.7	29.1	28.2	31.4	28.7
13	27.3	25.5	29.8	26.3	31.5	29.7	30.3	28.0	31.0	28.2	30.3	28.7
14	27.8	25.4	29.8	27.2	32.0	29.7	30.9	27.7	32.0	29.2	29.7	28.2
15	27.3	25.4	29.8	27.7	32.6	29.8	29.8	27.7	31.4	29.2	28.7	27.7
16	27.3	25.9	29.8	27.2	32.0	29.7	31.2	27.7	32.0	29.7	30.3	27.7
17	26.3	22.2	29.2	26.3	30.8	28.7	30.8	28.4	30.3	28.7	31.5	28.3
18	24.2	22.0	28.7	26.3	30.3	27.7	32.0	28.7	29.8	28.2	29.2	28.0
19	24.6	22.2	28.7	27.2	30.3	26.8	32.6	29.2	29.2	27.7	29.7	28.2
20	24.6	21.4	29.2	26.7	29.8	27.3	34.5	29.7	29.1	27.2	29.4	27.3
21	24.6	22.4	29.5	26.3	29.2	27.2	33.1	29.9	29.3	27.7	28.7	26.7
22	25.9	22.6	29.2	27.2	32.6	27.7	31.8	29.7	29.8	27.7	27.7	26.3
23	26.3	23.8	29.2	27.2	32.6	29.7	32.6	29.7	28.2	26.6	27.7	25.8
24	27.7	24.6	29.8	27.3	33.2	29.2	32.9	29.7	28.5	26.3	28.7	25.9
25	28.7	25.6	31.4	27.7	30.3	27.7	33.2	30.3	28.2	27.3	28.2	26.3
26	29.8	26.3	31.4	27.7	29.8	27.7	32.6	31.4	28.8	27.4	27.7	26.8
27	29.8	27.2	30.8	28.2	31.4	27.7	32.6	30.8	30.3	27.7	27.7	26.4
28	30.3	27.7	31.3	28.7	29.8	28.1	32.6	30.8	30.3	27.7	29.4	27.2
29	29.2	27.2	30.8	28.7	29.8	27.7	32.7	30.8	30.9	28.2	29.8	27.7
30	27.7	26.3	30.5	28.0	28.8	27.7	32.0	30.8	33.1	29.3	30.3	27.7
31	---	---	30.3	27.2	---	---	32.0	30.8	32.6	29.7	---	---
MONTH	30.3	21.4	31.4	22.4	33.2	25.0	34.5	27.2	34.0	26.3	32.6	25.8

02300044 BRADEN RIVER NEAR ELWOOD PARK, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	29.2	26.8	27.3	25.0	25.0	23.1	20.8	18.6	23.8	21.8	21.2	19.2
2	29.2	27.3	26.7	24.6	25.6	22.9	21.5	19.8	23.8	22.7	22.0	19.4
3	30.8	27.7	25.9	24.6	25.5	22.6	21.5	20.2	24.2	22.6	21.1	19.3
4	30.1	27.7	25.1	23.0	25.4	23.4	21.1	17.2	25.4	23.7	20.1	18.4
5	30.3	27.6	24.2	22.6	26.1	22.9	19.1	14.9	25.4	23.0	20.4	18.1
6	30.3	27.7	23.2	21.4	25.9	23.8	17.2	14.2	25.9	23.0	20.8	18.6
7	30.5	28.2	22.6	20.9	25.9	23.7	17.5	15.0	25.9	24.6	21.8	19.6
8	---	---	23.4	20.7	26.3	23.7	17.5	16.3	25.4	24.6	21.9	19.1
9	---	---	23.8	21.4	26.8	23.7	19.1	16.9	25.4	24.2	22.6	19.3
10	---	---	23.8	21.5	26.3	24.2	18.5	16.9	25.9	24.6	23.0	20.8
11	---	---	25.0	22.2	25.0	23.8	17.5	15.5	25.4	23.0	22.6	20.6
12	---	---	25.5	22.6	25.0	23.0	17.9	15.6	25.0	23.0	22.2	19.9
13	---	---	25.9	23.0	24.8	24.2	17.5	16.1	24.6	20.7	23.2	19.9
14	---	---	25.0	23.4	24.2	21.3	18.8	17.1	21.0	18.7	21.9	21.5
15	---	---	25.4	22.5	21.5	18.3	19.4	17.5	20.1	18.1	21.5	19.1
16	---	---	25.6	23.0	20.9	18.4	19.8	18.1	20.4	18.1	21.1	16.9
17	---	---	26.3	23.8	20.1	18.4	21.9	19.4	21.4	18.9	21.1	18.5
18	---	---	25.9	23.7	19.3	17.8	21.5	20.1	21.9	20.1	22.2	19.6
19	---	---	26.5	24.1	19.4	18.0	21.9	20.8	22.2	21.1	23.0	20.7
20	27.7	25.9	26.8	24.2	21.1	18.7	21.9	21.1	21.6	19.9	23.0	21.5
21	28.2	26.3	26.8	24.9	22.6	20.1	23.0	20.5	21.1	19.1	23.0	21.5
22	27.7	25.9	26.8	24.2	22.6	21.0	23.4	21.5	19.4	17.9	23.4	21.4
23	26.3	23.4	26.9	23.8	23.8	21.8	23.8	22.2	19.1	16.9	23.3	21.0
24	25.9	22.9	27.3	25.9	24.2	22.2	23.0	19.7	18.8	16.7	23.8	21.7
25	26.3	22.6	27.3	24.6	24.9	22.4	21.5	19.0	19.1	16.6	23.8	21.3
26	26.3	22.6	27.6	25.8	24.2	22.4	21.5	18.3	20.1	16.9	23.8	21.8
27	26.3	23.0	27.3	25.0	23.3	21.4	21.7	18.3	20.8	17.6	23.8	21.6
28	26.9	24.2	27.3	24.9	21.8	20.8	21.5	19.4	21.1	19.1	23.8	20.7
29	26.3	25.8	26.3	23.4	21.9	20.4	22.1	18.8	---	---	24.6	21.7
30	26.8	26.2	26.3	23.3	21.5	19.8	23.0	19.7	---	---	24.2	22.6
31	27.3	25.8	---	---	20.4	18.1	24.0	22.2	---	---	24.2	22.7
MONTH	---	---	27.6	20.7	26.8	17.8	24.0	14.2	25.9	16.6	24.6	16.9

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.5	22.5	26.3	23.7	29.8	27.3	29.2	27.7	32.6	30.8	30.8	29.2
2	26.1	23.8	24.5	22.6	29.2	27.7	28.3	27.5	33.8	31.4	30.9	28.7
3	26.6	24.4	25.4	22.5	29.8	27.7	28.2	27.2	33.2	30.3	32.0	29.1
4	27.3	25.0	25.4	23.7	31.4	28.7	28.7	27.2	32.0	29.7	31.0	29.2
5	27.3	25.4	26.3	24.2	30.3	28.2	28.7	27.2	32.0	29.7	32.0	29.7
6	27.7	25.8	27.6	24.7	30.3	26.3	29.8	27.7	30.3	28.2	30.7	28.7
7	27.7	26.1	27.7	26.3	30.3	28.7	30.3	27.6	29.8	27.3	29.8	28.2
8	27.6	25.9	27.7	26.3	29.8	27.7	29.8	27.7	30.3	27.7	28.7	27.7
9	28.4	25.5	28.2	26.3	29.8	28.2	29.2	27.7	29.7	28.3	29.8	27.7
10	28.2	26.3	27.7	25.9	31.4	28.8	29.2	27.7	29.8	28.2	30.3	27.7
11	27.7	26.3	27.7	26.1	32.6	29.7	30.3	27.7	29.8	28.2	30.3	28.0
12	28.2	26.3	28.6	26.3	32.0	29.8	29.8	28.7	28.7	28.2	31.3	28.7
13	27.3	25.5	29.2	26.3	31.4	29.7	30.2	27.9	30.5	28.2	30.3	28.7
14	27.7	25.4	29.2	27.2	31.6	30.3	30.3	27.7	32.0	29.1	29.7	27.7
15	27.3	25.4	29.8	27.7	32.6	30.3	29.8	27.7	31.0	29.2	28.7	27.3
16	27.1	25.8	29.6	27.3	32.0	29.7	30.3	27.7	31.4	29.3	30.3	27.7
17	26.3	23.8	28.7	26.9	30.8	28.7	30.8	28.2	29.8	28.7	32.0	28.7
18	24.2	22.1	28.7	26.6	30.3	28.2	31.4	28.7	29.4	28.2	29.8	28.4
19	24.5	22.5	28.3	27.2	30.3	28.2	32.0	29.1	29.2	27.7	30.3	28.7
20	24.2	22.2	28.7	26.8	29.8	28.2	33.2	29.7	28.7	27.2	30.3	27.7
21	24.6	22.5	29.2	26.3	29.8	27.7	33.1	29.7	28.7	27.3	29.8	27.7
22	25.0	23.1	29.2	27.2	32.0	29.2	31.4	29.7	29.2	27.7	28.7	27.2
23	26.3	23.8	29.2	27.2	32.6	29.7	31.4	29.4	28.1	26.4	28.7	26.4
24	27.7	25.0	29.1	27.5	32.6	29.6	32.6	29.7	28.2	26.3	29.4	26.8
25	28.7	25.9	30.3	27.7	29.8	27.7	32.6	30.8	28.2	27.2	29.1	27.3
26	28.7	26.3	30.8	27.7	29.8	27.7	32.6	31.4	28.7	27.3	28.2	27.7
27	29.2	27.2	30.8	28.2	30.8	27.7	32.6	30.8	29.8	27.7	28.7	27.3
28	29.8	27.7	31.0	28.7	29.8	27.8	32.0	30.8	30.3	27.7	30.3	27.7
29	29.2	27.2	30.8	28.7	29.2	27.7	32.6	30.6	30.8	28.2	30.3	28.4
30	27.7	26.3	30.3	28.2	28.7	27.7	31.8	30.8	32.6	29.2	30.9	28.7
31	---	---	30.3	27.2	---	---	32.0	30.8	32.6	29.7	---	---
MONTH	29.8	22.1	31.0	22.5	32.6	26.3	33.2	27.2	33.8	26.3	32.0	26.4

02300064 BRADEN RIVER AT BRADENTON, FL

LOCATION.--Lat 27°29'46", long 82°31'32", in SW$^1/_4$ 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^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1994 to current year (gage-heights 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 malfunctions of the instruments, or periods when extreme low tides were below the bottom of the gage stilling well.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.36 ft, Oct. 7, 1996; minimum, 8.67 ft, Oct. 23, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.56 ft, Jan. 3; minimum, 8.67 ft, Oct. 23.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.50	10.17	12.05	10.08	11.38	9.17	11.96	8.98	12.04	9.45	12.14	9.58
2	12.03	10.01	12.18	10.03	11.65	8.89	12.85	9.36	12.36	9.83	12.04	9.77
3	12.15	9.88	12.30	9.94	11.84	9.06	13.56	9.63	11.98	9.76	12.02	10.27
4	12.15	10.02	12.41	9.76	11.90	9.09	11.97	9.08	11.68	9.72	11.36	9.61
5	12.10	9.91	11.39	9.37	11.78	8.98	10.85	8.80	11.44	9.77	11.28	9.59
6	11.88	9.66	11.29	9.13	11.78	9.06	10.56	8.99	11.48	9.81	11.44	9.89
7	12.06	9.73	11.55	8.94	11.76	9.33	10.81	9.27	11.69	10.14	11.32	9.48
8	---	---	11.39	9.08	11.62	9.42	11.32	9.93	11.58	10.20	10.93	9.29
9	---	---	11.74	9.58	11.11	9.36	12.17	10.29	11.69	10.05	11.79	9.42
10	---	---	11.59	9.70	10.77	9.33	10.62	9.75	11.52	9.67	11.57	10.10
11	---	---	11.53	9.87	10.77	9.48	10.68	9.12	11.80	9.42	11.29	9.91
12	---	---	11.18	9.83	11.41	9.74	11.52	9.27	11.87	9.48	11.38	9.49
13	---	---	11.43	10.00	11.67	9.99	11.71	9.69	11.80	9.50	12.06	9.32
14	---	---	11.58	10.15	11.38	9.93	12.17	9.39	11.39	8.71	12.34	10.03
15	---	---	11.66	9.95	11.18	9.18	12.04	9.47	11.64	8.99	12.21	10.23
16	---	---	11.84	9.75	11.42	9.19	11.93	9.19	11.97	9.43	11.42	8.96
17	---	---	11.83	9.66	11.54	9.32	11.95	9.33	12.31	9.80	11.53	9.45
18	---	---	11.70	9.45	11.79	8.98	11.96	9.45	12.40	10.19	11.59	9.61
19	11.73	10.03	11.78	9.18	11.82	9.44	11.94	9.31	12.08	10.21	11.73	9.68
20	11.65	9.84	11.83	9.30	11.94	9.21	11.81	9.37	11.66	9.92	11.77	9.66
21	11.52	9.75	11.76	9.32	12.00	9.37	11.69	9.52	11.56	9.70	12.08	9.82
22	11.55	9.52	11.33	9.03	11.79	9.58	11.79	9.80	11.22	9.57	11.56	9.60
23	10.95	8.67	11.39	9.27	11.41	9.24	11.59	10.03	11.61	9.37	11.66	9.43
24	11.25	9.30	11.31	9.21	11.58	9.60	11.65	9.75	11.56	9.46	11.50	9.37
25	11.52	9.46	11.52	9.42	11.34	9.62	11.11	9.32	11.74	9.41	11.54	9.40
26	11.53	9.63	11.30	9.35	11.13	9.52	11.24	9.15	11.96	9.27	11.33	9.37
27	11.63	9.63	10.89	9.36	11.35	9.61	11.79	9.10	12.02	9.46	11.01	9.31
28	11.82	10.07	11.05	9.52	11.84	9.60	12.09	9.27	12.13	9.75	11.35	8.98
29	11.78	10.19	11.39	9.54	12.43	9.82	12.19	9.32	---	---	11.35	9.26
30	11.81	10.18	11.51	9.48	12.20	9.94	12.17	9.37	---	---	11.41	9.51
31	11.73	10.06	---	---	11.64	9.16	12.10	9.42	---	---	11.54	9.72
MONTH	---	---	12.41	8.94	12.43	8.89	13.56	8.80	12.40	8.71	12.34	8.96

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.76	9.80	11.69	9.47	11.80	9.40	11.87	9.54	11.99	10.15	11.80	10.07
2	11.39	9.59	11.71	9.49	12.07	9.42	11.82	9.43	11.82	10.19	11.63	9.88
3	11.47	9.49	11.94	9.68	11.77	9.31	11.76	9.43	11.89	10.26	11.68	9.89
4	11.62	9.60	12.19	9.84	11.61	9.31	11.62	9.61	11.76	10.26	12.17	10.01
5	11.56	9.63	12.18	10.03	11.64	9.39	11.32	9.85	12.18	10.36	12.43	10.15
6	11.64	9.51	12.23	10.01	11.07	9.45	11.47	9.80	12.54	10.63	12.73	10.24
7	11.60	9.44	12.42	10.09	10.98	9.38	11.73	10.21	12.40	10.10	12.39	10.19
8	11.57	9.62	11.71	9.81	11.21	9.65	11.91	10.02	12.43	9.92	12.63	10.35
9	11.62	9.70	11.60	9.84	11.48	9.78	11.97	9.74	12.76	10.07	12.42	9.92
10	11.48	9.80	11.45	9.86	11.78	9.70	12.15	9.62	12.91	10.22	12.00	10.00
11	11.54	9.69	11.69	9.96	11.81	9.41	12.32	9.61	12.99	10.38	11.74	9.95
12	11.39	9.90	11.74	10.02	12.07	9.41	12.37	9.54	12.55	10.23	11.49	9.84
13	11.51	9.54	11.92	9.77	12.09	9.35	12.42	9.63	12.35	10.37	11.30	9.68
14	11.83	9.76	12.33	9.88	12.21	9.32	12.41	9.59	12.52	10.70	11.05	9.54
15	12.43	10.44	12.03	9.44	12.26	9.37	12.21	9.64	12.40	10.66	11.32	10.32
16	12.09	9.40	12.08	9.33	12.38	9.48	11.92	9.60	11.97	10.64	11.71	10.01
17	11.41	9.01	12.15	9.32	12.47	9.56	11.75	9.64	11.99	10.47	11.49	9.83
18	11.25	9.05	12.24	9.35	11.54	9.56	11.51	9.81	12.20	10.69	11.78	9.92
19	11.39	9.08	12.25	9.45	11.49	9.50	11.14	9.88	12.21	10.64	12.26	10.36
20	11.70	9.06	11.96	9.54	11.01	9.72	11.27	10.14	12.13	10.69	12.23	11.16
21	11.70	9.22	11.69	9.50	11.26	9.85	11.19	9.95	12.10	10.33	12.48	10.18
22	11.73	9.40	11.19	9.49	11.12	9.81	11.38	9.95	12.11	10.21	11.77	9.95
23	11.39	9.52	11.26	9.60	11.34	9.86	11.62	9.74	12.36	10.38	11.78	9.82
24	11.18	9.47	11.37	9.98	11.57	9.69	11.86	9.75	12.41	10.14	12.16	10.02
25	11.39	9.70	11.55	9.92	11.72	9.62	12.01	9.73	12.51	10.08	12.31	10.17
26	11.82	9.90	11.43	9.76	11.79	9.54	11.99	9.59	12.36	10.08	12.15	10.04
27	11.82	10.25	11.59	9.60	12.02	9.65	12.11	9.58	12.41	10.16	11.97	9.99
28	11.98	10.26	11.57	9.55	11.91	9.49	12.18	9.73	12.43	10.42	11.91	9.88
29	12.01	10.08	11.66	9.25	12.09	9.47	12.26	9.84	12.36	10.46	12.08	10.06
30	12.11	9.89	11.63	9.27	12.10	9.37	12.03	9.84	12.13	10.42	12.05	9.92
31	---	---	11.81	9.40	---	---	12.18	10.01	11.69	9.84	---	---
MONTH	12.43	9.01	12.42	9.25	12.47	9.31	12.42	9.43	12.99	9.84	12.73	9.54

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1995 to current year.
INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature probes located 0.2 ft above the bottom.
REMARKS.--Interruptions in record were due to malfunctions of the instruments, and periods when the probe was dry during extreme low tides.
EXTREMES FOR PERIOD OF RECORD.--
SPECIFIC CONDUCTANCE.--Maximum, 48,600 microsiemens, May 29, 1999; minimum, 282 microsiemens, Mar. 20, 1998.
TEMPERATURE.--Maximum, 34.9°C, Aug. 16, 1998; minimum, 4.6°C, Dec. 21, 1996.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE.--Maximum, 48,600 microsiemens, May 29; minimum, 2270 microsiemens, Aug. 19.
TEMPERATURE.--Maximum, 34.7°C, July 20; minimum, 14.4°C, Feb. 23.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(0.2 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	14100	11200	38700	31700	30700	30000	40700	34200	37800	29400	---	---
2	14600	14100	40100	33400	31100	28700	---	---	39100	32700	---	---
3	14600	14200	41100	34400	31400	29300	---	---	38400	31400	---	---
4	14400	14000	41700	33800	31900	30600	---	---	36900	30600	---	---
5	14100	13700	36300	25300	31900	29700	---	---	35400	30100	---	---
6	13900	13500	32700	17300	31500	29700	---	---	34200	28700	---	---
7	13600	13000	32800	9560	31700	30800	---	---	36000	30400	---	---
8	---	---	32500	11800	32000	31200	---	---	35400	29700	---	---
9	---	---	37000	25300	32400	31600	---	---	35200	28600	---	---
10	---	---	38400	28400	32400	31700	---	---	33300	28500	---	---
11	---	---	41200	36200	32300	31700	---	---	35200	28600	---	---
12	---	---	39600	36200	32100	31600	---	---	36400	30700	---	---
13	---	---	39000	35300	32500	31500	---	---	36200	30000	---	---
14	---	---	39000	34900	32700	32200	---	---	36400	33900	---	---
15	---	---	38500	36100	37400	31900	---	---	37100	35400	---	---
16	---	---	38400	35800	38000	28500	---	---	36900	35100	---	---
17	---	---	38700	35300	38800	30600	---	---	36700	32100	---	---
18	---	---	37400	34500	38800	30300	---	---	34100	30300	---	---
19	31400	21500	36400	34700	40700	32700	---	---	32700	29800	---	---
20	31100	22500	36800	33700	41300	30500	---	---	32400	29800	---	---
21	31700	22800	35300	33000	41000	35000	---	---	34900	31100	---	---
22	31600	22700	33300	32400	40900	36400	---	---	34500	32500	---	---
23	27700	18600	33200	32200	40000	32600	---	---	37400	32300	---	---
24	31800	21600	32600	31900	40800	36000	---	---	38300	33300	---	---
25	33700	22800	32700	31900	40900	37100	---	---	---	---	---	---
26	35100	23600	32500	31400	39900	34900	---	---	---	---	---	---
27	35400	25400	31600	30600	40200	35600	---	---	---	---	---	---
28	36600	28000	30900	30300	41600	36400	38000	25300	---	---	---	---
29	36100	29400	30600	29700	43300	36900	37800	26600	---	---	---	---
30	36600	30500	30700	30000	42700	36800	37600	28200	---	---	---	---
31	37600	31400	---	---	40700	35100	37900	29700	---	---	---	---
MONTH	---	---	41700	9560	43300	28500	---	---	---	---	---	---

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(0.2 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	44900	43600	46100	42600	32900	16900	27000	25700	18300	9090
2	43300	41200	45300	43300	47000	42200	30300	15000	26100	25000	19100	8520
3	43500	39900	45600	42400	46900	41800	30400	14600	25200	24800	20100	12200
4	43400	39300	46300	42900	45700	41200	28600	11600	25500	24700	23000	12200
5	43500	40700	46600	44100	44600	41900	26400	8130	25400	24700	24600	18300
6	43600	40900	47400	44100	42000	38100	29500	8650	25000	24500	24400	18700
7	43500	40600	47600	44800	40600	35100	30200	13000	24700	22800	24000	19400
8	44000	40600	47200	44700	38100	36800	31700	16100	22800	19000	22300	17800
9	44400	41500	46500	44900	39100	37800	31200	22400	19000	17600	22200	18500
10	43900	41800	46500	44900	41800	36200	28600	22100	18000	17000	20800	16000
11	44300	42000	46800	44500	41400	37900	26800	22600	17200	16400	17900	15300
12	44300	41900	47100	43900	41900	37000	25600	22500	16700	15500	15400	14700
13	43900	41800	47300	43900	40000	37000	27000	25400	15500	14100	14900	14500
14	44100	42100	48000	45400	39800	37100	29000	17800	14300	13800	14800	11900
15	45500	43000	47500	43900	39400	36500	28400	26000	14700	14000	13500	11900
16	45100	42500	47000	40800	38200	36200	26600	24200	14900	13100	16600	13300
17	43300	37900	46900	44300	38200	37100	25900	23100	15200	4770	16900	14900
18	42200	40400	47500	44400	37400	33500	25500	24200	12800	4950	17100	14900
19	43200	40500	48000	44800	33900	32500	25400	24200	15500	2270	18400	16300
20	44100	40800	47800	44700	33800	32600	25900	24800	15700	2440	19700	17600
21	44300	41200	47700	44600	34500	32700	24900	23700	17000	9740	21400	18900
22	45500	41700	46700	44900	36700	34300	25600	23300	20000	16800	23500	18300
23	44300	42000	47300	44400	38600	35000	26200	23800	20100	8620	23900	19100
24	44400	41600	47400	44900	39900	35300	27100	24900	10500	7230	24900	21100
25	45100	41200	47200	44900	40600	26500	27600	26000	11300	7480	25900	22100
26	45300	42600	47600	45900	38800	24500	27500	26500	11600	9450	26700	21900
27	46000	43900	48200	46000	41500	21600	27900	26500	12200	10100	26900	22100
28	45800	44100	48000	46000	36500	18300	28100	26700	12400	9790	27200	20600
29	46300	43900	48600	45800	35100	19900	27600	26700	12500	10000	26700	19200
30	45800	43800	48100	41600	34900	22400	26900	26400	19400	9520	26900	16600
31	---	---	47000	42100	---	---	27300	26300	17000	8290	---	---
MONTH	---	---	48600	40800	47000	18300	32900	8130	27000	2270	27200	8520

02300064 BRADEN RIVER AT BRADENTON, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(0.2 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	30.0	27.5	27.0	24.4	24.9	22.1	20.0	16.3	23.2	21.7	21.0	18.4
2	30.0	27.5	27.0	24.4	24.5	22.2	---	---	22.5	21.4	21.7	18.7
3	31.0	28.4	25.7	24.6	24.8	22.4	---	---	23.6	21.7	20.3	19.0
4	31.1	28.4	25.2	23.2	24.8	22.8	---	---	24.4	22.4	19.5	16.9
5	31.1	28.4	23.6	21.4	25.3	22.8	---	---	24.9	22.8	19.3	16.3
6	31.1	28.4	22.1	19.6	25.7	23.2	---	---	24.2	21.5	20.7	17.7
7	31.1	28.4	22.8	19.3	25.3	22.8	---	---	24.0	22.1	22.2	19.0
8	---	---	24.0	19.6	25.7	22.8	---	---	23.6	22.4	21.4	18.5
9	---	---	24.8	20.3	26.1	22.8	---	---	24.9	22.4	21.0	17.5
10	---	---	25.3	20.7	25.8	23.2	---	---	24.9	22.8	22.0	20.0
11	---	---	27.2	21.7	24.8	22.8	---	---	25.3	22.4	22.1	20.3
12	---	---	27.5	23.5	25.7	22.8	---	---	24.8	22.8	23.0	19.6
13	---	---	27.3	23.6	24.2	23.2	---	---	23.8	18.1	22.5	19.5
14	---	---	26.1	23.6	23.2	19.5	---	---	19.5	16.0	21.3	20.3
15	---	---	26.2	23.3	20.0	17.2	---	---	19.7	14.9	20.3	17.7
16	---	---	26.6	23.6	19.0	16.0	---	---	20.0	17.3	20.3	15.2
17	---	---	27.0	24.4	19.3	16.0	---	---	20.7	18.4	21.1	17.7
18	---	---	26.6	24.4	18.7	16.0	---	---	21.7	19.3	22.1	19.0
19	28.5	25.6	26.1	24.8	18.7	17.0	---	---	22.1	20.3	22.6	20.0
20	28.5	26.1	27.0	24.9	20.7	18.1	---	---	21.6	19.6	23.3	21.0
21	28.5	26.6	27.0	25.7	22.5	19.6	---	---	20.0	17.4	22.9	21.3
22	28.5	24.3	27.0	24.4	22.9	20.3	---	---	17.8	15.2	22.9	20.0
23	24.3	20.3	27.0	24.4	24.0	21.1	---	---	18.1	14.4	22.6	19.6
24	23.6	20.7	27.1	25.2	24.3	21.4	---	---	18.6	15.3	23.6	20.6
25	24.8	21.4	26.6	24.4	24.9	21.7	---	---	19.0	16.0	24.4	21.0
26	25.3	22.1	27.5	24.4	23.5	20.6	---	---	19.7	16.7	24.5	22.4
27	26.1	22.1	27.0	24.0	21.4	19.3	---	---	20.7	17.7	24.0	20.3
28	26.0	22.4	25.7	22.8	21.0	20.0	22.4	20.3	20.9	19.0	23.9	17.7
29	27.1	22.9	24.9	22.1	22.1	20.0	22.5	20.3	---	---	25.3	21.0
30	27.1	23.6	24.9	22.1	21.4	19.3	23.2	20.6	---	---	24.8	22.1
31	27.0	24.4	---	---	19.7	16.0	23.6	21.4	---	---	23.2	21.4
MONTH	---	---	27.5	19.3	26.1	16.0	---	---	25.3	14.4	25.3	15.2

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	25.3	21.4	24.0	21.7	30.0	27.0	31.7	28.0	33.4	31.6	32.2	30.0
2	26.5	23.2	24.1	21.0	29.5	27.0	31.7	27.5	34.1	31.8	32.8	30.0
3	27.0	24.1	25.7	21.9	31.0	27.0	31.1	27.9	32.2	30.6	33.4	30.0
4	27.5	25.0	26.1	22.8	31.2	27.9	31.1	27.9	33.3	30.0	33.4	30.6
5	28.0	25.2	26.9	24.4	32.2	28.4	31.6	28.2	33.5	29.5	32.9	31.1
6	28.5	25.7	28.0	25.4	31.6	27.8	32.8	28.9	31.6	28.5	32.2	29.5
7	29.4	25.6	28.0	26.6	30.5	27.0	32.8	29.5	32.2	28.0	31.1	28.4
8	29.0	25.7	29.0	26.1	28.5	27.0	31.6	29.5	32.8	30.1	30.0	28.0
9	28.5	26.1	29.5	27.0	28.5	26.6	32.1	28.9	32.2	30.0	30.0	27.5
10	29.5	26.4	29.5	26.1	31.1	26.6	32.2	27.5	32.0	28.8	31.5	28.4
11	29.5	26.5	30.0	26.1	32.2	28.4	32.8	29.4	32.1	30.0	31.7	28.9
12	29.5	26.6	29.5	26.1	32.2	29.5	32.2	29.5	31.1	29.5	32.2	29.0
13	27.5	23.6	30.0	26.6	32.2	29.5	32.2	28.9	33.4	29.5	31.1	29.1
14	27.5	23.6	30.0	27.5	32.2	29.4	32.2	28.9	32.8	30.5	30.0	28.0
15	27.0	24.9	30.5	27.5	32.2	30.5	32.2	28.4	32.8	30.5	29.0	27.0
16	27.4	25.2	29.5	26.1	32.2	29.5	32.2	28.4	33.3	30.5	30.3	27.5
17	25.2	20.2	29.5	26.1	31.1	28.4	32.2	29.0	32.7	29.9	31.7	28.0
18	23.3	19.6	29.5	26.1	29.0	27.5	32.2	29.3	32.2	28.9	30.0	28.0
19	23.6	20.6	29.0	26.8	30.5	27.0	33.3	30.0	32.2	28.4	29.0	27.5
20	24.0	20.4	29.5	26.1	29.8	28.0	34.7	30.9	31.1	28.8	28.4	26.6
21	25.2	21.6	30.0	26.6	29.5	27.5	34.6	31.6	31.1	28.4	28.5	26.1
22	26.1	22.8	31.1	27.5	32.5	27.5	33.4	31.1	31.6	28.4	29.0	26.2
23	27.5	24.0	31.0	27.5	32.2	28.9	33.5	30.0	30.0	27.5	28.0	25.3
24	28.5	25.6	30.5	27.9	32.2	28.6	34.1	31.6	30.5	26.6	28.0	25.7
25	29.5	26.1	31.1	28.0	31.7	29.5	33.9	31.6	31.1	28.4	29.0	26.6
26	30.5	27.0	32.2	28.3	31.6	28.9	32.8	31.6	32.2	29.3	27.9	26.6
27	30.5	27.5	32.2	28.4	32.2	28.4	32.8	31.0	32.2	30.0	28.6	26.6
28	30.3	28.3	32.1	28.7	31.7	28.9	33.5	31.1	32.2	30.0	30.0	27.1
29	30.0	27.3	31.7	28.4	31.1	28.4	32.8	31.5	32.8	30.5	30.0	27.5
30	28.2	24.0	31.6	28.0	31.1	28.3	32.2	31.1	32.8	31.3	31.7	28.4
31	---	---	30.5	27.4	---	---	32.8	31.1	32.8	30.7	---	---
MONTH	30.5	19.6	32.2	21.0	32.5	26.6	34.7	27.5	34.1	26.6	33.4	25.3

02300100 LITTLE MANATEE RIVER NEAR FORT LONESOME, FL

LOCATION.--Lat 27°42'16", long 82°11'53", in NW1/4 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^2.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e200	77	e90	11	9.1	4.4	2.0	e.94	2.8	8.9	6.0	8.7
2	e155	49	69	10	9.1	4.4	1.8	e.76	1.9	13	4.1	7.8
3	e132	24	60	62	8.9	4.5	1.9	e.68	2.8	18	3.4	7.6
4	e142	30	63	69	8.9	4.7	1.7	e.74	11	17	e3.7	7.4
5	e150	166	52	45	8.5	4.5	1.3	e.75	4.7	17	e6.2	6.0
6	97	143	41	27	7.8	4.1	1.6	e.68	4.2	12	e5.4	5.2
7	82	100	51	18	7.4	4.6	1.4	e.76	8.7	7.2	e4.6	5.9
8	57	53	27	21	7.3	32	1.4	e.82	9.5	5.2	e4.0	6.2
9	28	27	37	16	7.2	38	1.4	e.70	8.1	7.5	e5.6	6.1
10	30	20	44	16	6.9	21	1.2	e1.2	22	9.5	8.2	5.4
11	25	29	25	16	6.7	25	1.1	e2.0	11	4.9	9.5	6.4
12	24	23	21	23	6.8	43	1.1	e3.6	5.3	3.3	8.1	94
13	111	23	26	14	6.7	29	.90	e6.0	2.4	18	6.1	88
14	73	22	50	10	6.1	40	1.2	e12	3.3	18	4.9	54
15	50	19	37	9.6	5.7	33	1.0	e16	3.0	8.3	4.9	52
16	e37	22	41	9.1	5.5	11	1.2	e6.5	25	5.6	16	73
17	29	26	38	9.7	5.5	8.9	2.3	e3.5	59	4.2	42	49
18	23	52	34	11	5.7	13	2.5	e2.5	62	7.1	23	28
19	27	46	30	11	5.7	6.1	1.5	e1.5	59	4.6	11	72
20	22	23	23	10	5.4	12	e1.2	e2.1	45	4.5	20	124
21	24	16	32	9.5	5.1	10	e1.0	1.8	24	4.6	23	146
22	37	28	39	9.4	5.1	5.2	e.80	9.3	14	3.7	59	98
23	55	39	36	9.5	5.0	3.6	e.78	7.8	11	7.1	144	56
24	56	58	26	64	4.9	3.7	e.76	3.4	50	10	170	32
25	64	69	25	65	4.8	3.5	e.78	2.4	29	26	114	23
26	112	e62	19	38	4.7	3.1	e.90	1.6	18	12	59	22
27	132	e80	18	21	4.6	3.0	e1.0	1.5	12	7.0	44	33
28	132	e72	17	15	4.4	2.4	e1.2	1.3	18	6.1	127	91
29	131	e66	16	12	---	2.3	e1.5	1.3	15	4.3	53	37
30	127	e80	15	11	---	1.9	e1.2	1.1	13	5.8	22	27
31	123	---	13	9.8	---	2.8	---	3.7	---	6.6	12	---
TOTAL	2487	1544	1115	682.6	179.5	384.7	39.62	98.93	554.7	287.0	1023.7	1271.7
MEAN	80.2	51.5	36.0	22.0	6.41	12.4	1.32	3.19	18.5	9.26	33.0	42.4
MAX	200	166	90	69	9.1	43	2.5	16	62	26	170	146
MIN	22	16	13	9.1	4.4	1.9	.76	.68	1.9	3.3	3.4	5.2
CFSM	2.55	1.64	1.15	.70	.20	.40	.04	.10	.59	.29	1.05	1.35
IN.	2.95	1.83	1.32	.81	.21	.46	.05	.12	.66	.34	1.21	1.51

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	22.5	14.8	16.0	22.3	28.7	31.4	14.8	10.8	30.4	51.8	65.9	64.9
MAX	83.0	76.4	139	91.2	154	232	101	76.1	163	187	264	262
(WY)	1996	1996	1998	1998	1998	1998	1973	1987	1968	1968	1967	1979
MIN	.36	.38	1.19	1.58	1.98	.58	.001	.000	.66	2.13	1.56	4.72
(WY)	1975	1975	1985	1975	1974	1974	1975	1967	1964	1985	1996	1974

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	26245.2		9668.45			
ANNUAL MEAN	71.9		26.5		31.2	
HIGHEST ANNUAL MEAN					77.8	1998
LOWEST ANNUAL MEAN					7.98	1985
HIGHEST DAILY MEAN	1000	Mar 21	200	Oct 1	2190	Sep 22 1979
LOWEST DAILY MEAN	1.6	Jun 22	.68	May 3	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	2.1	Jun 16	.73	May 3	.00	Jun 18 1964
INSTANTANEOUS PEAK FLOW			363	Aug 23	3100	Sep 22 1979
INSTANTANEOUS PEAK STAGE			8.61	Aug 23	12.21	Sep 7 1988
ANNUAL RUNOFF (CFSM)	2.29		.84		.99	
ANNUAL RUNOFF (INCHES)	31.09		11.45		13.51	
10 PERCENT EXCEEDS	172		69		74	
50 PERCENT EXCEEDS	35		11		9.1	
90 PERCENT EXCEEDS	3.4		1.5		1.1	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
17...	1045	3.74	25	557	6.50	19.5	6.8
JAN							
14...	1050	2.83	11	386	7.61	14.0	8.2
APR							
12...	1105	2.01	1.1	263	8.10	22.4	5.8
JUN							
07...	1005	2.86	8.9	302	7.73	23.8	6.2
AUG							
09...	1225	2.55	5.4	285	6.95	26.6	6.4
SEP							
30...	1245	3.67	27	175	7.06	25.5	5.2

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
17...	<.01	.04	.03	.58	.62	.61
JAN						
14...	<.01	.15	.02	.52	.47	.44
APR						
12...	<.01	.32	.02	.31	.34	.31
JUN						
07...	<.01	.24	.03	.51	.40	.43
AUG						
09...	<.01	.12	.02	.64	.52	.47
SEP						
30...	<.01	.10	.07	1.2	.82	.73

02300500 LITTLE MANATEE RIVER NEAR WIMAUMA, FL

LOCATION.--Lat 27°40'15", long 82°21'10", 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^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1939 to current year.
REVISED RECORDS.--WSP 1032: 1939(M). WSP 1905: 1961-62, 1965 drainage area.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1963, at site 75 ft downstream at datum 2.17 ft higher; Oct. 1, 1963, to Sept. 22, 1971, at former site and present datum.
REMARKS.--Records good. Some diversion, 3.3 mi upstream from station by Manatee Power Plant since June 1974. Stage-discharge relation affected by tide on some days. Maximum discharge, 689 ft^3/s, Oct. 1, gage height 9.37 ft, occurred on recession following peak of Sept. 27, 1998; maximum independent peak discharge, 551 ft^3/s, June 19, gage height 8.33 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	613	158	114	62	119	73	34	26	79	183	72	127
2	504	125	110	56	113	74	35	22	45	418	61	143
3	422	97	109	208	114	73	35	20	e38	397	49	125
4	342	95	104	322	109	65	35	21	e25	346	41	94
5	305	369	101	291	105	61	31	20	e38	238	71	87
6	279	517	91	226	97	60	29	20	e60	187	243	125
7	234	443	85	174	92	62	30	22	163	143	259	170
8	209	294	87	157	86	64	29	22	176	333	179	162
9	177	200	70	135	85	98	28	20	141	237	151	112
10	153	155	78	130	82	101	30	21	208	311	221	89
11	143	136	76	127	87	85	30	23	154	173	186	74
12	129	132	72	132	82	91	29	26	109	103	e170	90
13	227	115	77	128	79	113	27	31	101	111	133	194
14	539	105	172	112	75	110	28	37	240	164	133	150
15	427	102	145	105	73	125	28	68	111	375	e90	103
16	254	95	98	104	78	98	26	95	320	222	e60	90
17	189	93	102	100	78	70	28	51	415	120	e100	87
18	160	94	77	97	74	65	39	35	503	142	167	87
19	143	112	77	95	72	65	33	32	546	108	114	119
20	130	97	81	96	73	58	29	27	453	102	84	202
21	120	76	70	90	76	58	27	25	294	81	117	257
22	120	100	76	88	76	54	27	30	247	68	159	299
23	123	142	77	83	75	47	25	69	208	126	442	207
24	130	146	73	347	77	42	24	47	189	103	468	110
25	126	139	63	370	72	43	24	32	250	86	490	106
26	131	152	63	315	72	42	22	27	286	85	489	86
27	156	145	83	233	72	39	22	25	201	67	338	109
28	166	129	77	178	72	37	23	23	180	61	253	126
29	168	118	76	149	---	39	24	22	168	55	378	165
30	166	118	77	141	---	37	26	31	165	53	313	144
31	166	---	71	131	---	36	---	149	---	63	163	---
TOTAL	7151	4799	2732	4982	2365	2085	857	1119	6113	5261	6194	4039
MEAN	231	160	88.1	161	84.5	67.3	28.6	36.1	204	170	200	135
MAX	613	517	172	370	119	125	39	149	546	418	490	299
MIN	120	76	63	56	72	36	22	20	25	53	41	74

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	151	76.0	75.5	113	133	152	78.4	51.6	153	297	369	396
MAX	1160	430	730	483	950	921	439	288	682	1444	964	1262
(WY)	1953	1998	1998	1948	1998	1998	1958	1987	1959	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 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	118101		47697			
ANNUAL MEAN	324		131		171	
HIGHEST ANNUAL MEAN					411	1959
LOWEST ANNUAL MEAN					40.2	1956
HIGHEST DAILY MEAN	6560	Mar 21	613	Oct 1	11100	Sep 11 1960
LOWEST DAILY MEAN	18	Jun 20	20	May 3	.92	Dec 18 1976
ANNUAL SEVEN-DAY MINIMUM	20	Jun 14	21	May 3	1.2	Dec 14 1976
INSTANTANEOUS PEAK FLOW			689	Oct 1	14000	Sep 11 1960
INSTANTANEOUS PEAK STAGE			9.37	Oct 1	20.14	Sep 8 1988
10 PERCENT EXCEEDS	726		288		391	
50 PERCENT EXCEEDS	131		100		59	
90 PERCENT EXCEEDS	34		29		17	

02300500 LITTLE MANATEE RIVER NEAR WIMAUMA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-62, 1964-83, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
17...	1115	3.78	92	352	5.90	20.0	--	7.5	--	--	--	--
JAN												
14...	1130	3.50	110	281	7.42	14.0	60	9.4	19	9.2	18	4.9
APR												
12...	1145	2.66	30	393	8.21	23.6	30	6.9	39	16	9.3	3.6
JUN												
07...	1040	4.53	163	244	7.35	24.5	--	5.7	--	--	--	--
AUG												
09...	1026	4.23	145	281	8.01	26.6	140	6.6	23	9.9	8.6	9.4
SEP												
30...	1330	4.89	153	189	7.34	25.8	200	6.1	15	6.6	7.9	5.7

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV											
17...	--	--	--	--	--	<.01	.69	.05	.55	.38	.37
JAN											
14...	59	18	.38	6.7	185	<.01	.72	.03	.49	.38	.34
APR											
12...	95	16	.45	8.1	287	<.01	.36	.02	.23	.29	.26
JUN											
07...	--	--	--	--	--	<.01	.58	.08	.92	.56	.53
AUG											
09...	66	20	.29	8.3	204	<.01	.62	.03	.68	.44	.38
SEP											
30...	34	15	.32	7.6	175	<.01	.39	.02	.94	.51	.42

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
14...	191	<1.0	<1.0	<1.0	2.8	218	<1	<.1	1.2	340	4.7
APR											
12...	89	<1.0	<1.0	<1.0	1.9	83	<1	<.1	<1.0	1900	2.4
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	228	1.4	<1.0	<1.0	6.3	342	<1	<.1	<1.0	520	5.7
SEP											
30...	301	1.8	<1.0	<1.0	6.6	431	<1	<.1	1.4	360	6.7

02300700 BULLFROG CREEK NEAR WIMAUMA, FL

LOCATION.--Lat 27°47'30", long 82°21'08", in SE 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^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1956 to November 1958; 1959-74 (annual maximum); April 1977 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 September 1974, nonrecording gage at same site and datum.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	160	11	9.8	7.8	19	16	14	10	e20	12	7.6	37
2	105	11	8.7	7.9	19	14	14	8.3	43	49	7.1	133
3	74	10	9.2	e24	18	13	13	6.8	61	29	7.1	148
4	48	e22	9.8	29	18	12	14	6.3	33	21	7.1	50
5	35	e63	8.9	24	20	13	13	7.6	49	26	47	28
6	30	e55	8.6	21	20	11	15	5.8	36	22	227	49
7	27	e50	8.4	19	19	13	12	6.2	29	17	183	102
8	24	e35	8.5	15	17	12	11	9.8	25	25	63	153
9	22	e27	10	15	17	14	11	5.9	20	102	31	121
10	21	17	10	17	16	16	11	5.9	21	124	23	62
11	20	15	10	15	17	16	14	5.0	18	70	20	49
12	20	14	9.8	14	16	16	13	6.2	16	34	20	83
13	20	13	15	14	13	14	10	9.2	13	78	20	49
14	15	14	16	12	14	32	9.5	7.3	13	138	17	41
15	15	12	12	10	15	41	10	26	17	337	14	33
16	15	11	11	9.8	13	26	11	18	14	258	12	25
17	14	10	9.9	9.4	17	18	12	12	16	93	10	21
18	14	11	9.2	9.1	15	14	14	7.9	39	57	10	31
19	13	10	8.7	9.8	16	14	10	6.5	67	41	12	46
20	13	9.4	8.1	12	14	15	8.0	5.9	40	30	14	105
21	19	9.3	7.4	13	13	14	8.5	6.3	36	22	18	114
22	19	9.1	7.3	14	13	14	10	6.9	34	18	51	100
23	12	8.5	8.6	12	16	14	8.5	5.6	24	16	358	58
24	10	10	8.7	288	16	14	7.3	5.0	18	14	398	38
25	11	10	7.1	216	15	14	7.0	4.5	15	13	163	28
26	12	11	6.9	91	16	14	7.6	4.4	13	15	82	25
27	11	9.2	6.8	47	15	14	8.5	4.3	12	13	52	25
28	9.7	9.3	6.9	34	15	16	8.4	4.3	11	11	111	30
29	9.7	9.6	7.3	28	---	15	11	4.3	10	9.1	105	23
30	9.4	9.9	8.1	25	---	15	11	e5.0	9.5	9.0	57	23
31	9.7	---	7.5	23	---	15	---	e9.0	---	8.8	32	---
TOTAL	837.5	516.3	284.2	1085.8	452	499	327.3	236.2	772.5	1711.9	2178.9	1830
MEAN	27.0	17.2	9.17	35.0	16.1	16.1	10.9	7.62	25.8	55.2	70.3	61.0
MAX	160	63	16	288	20	41	15	26	67	337	398	153
MIN	9.4	8.5	6.8	7.8	13	11	7.0	4.3	9.5	8.8	7.1	21
CFSM	.93	.59	.32	1.20	.55	.55	.37	.26	.88	1.90	2.42	2.10
IN.	1.07	.66	.36	1.39	.58	.64	.42	.30	.99	2.19	2.79	2.34

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 1999, BY WATER YEAR (WY)

MEAN	31.4	20.6	27.3	36.3	45.0	53.1	27.4	22.7	41.4	48.4	68.7	95.4
MAX	102	92.3	251	133	233	191	108	86.8	215	187	188	298
(WY)	1996	1998	1998	1996	1998	1987	1958	1991	1982	1991	1995	1988
MIN	5.94	1.17	.56	2.51	1.86	16.1	7.13	1.88	3.18	10.8	9.28	8.52
(WY)	1979	1957	1957	1957	1957	1999	1978	1977	1979	1979	1993	1958

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1957 - 1999	
ANNUAL TOTAL	23039.5		10731.6			
ANNUAL MEAN	63.1		29.4		43.0	
HIGHEST ANNUAL MEAN					90.0	1998
LOWEST ANNUAL MEAN					21.9	1980
HIGHEST DAILY MEAN	1360	Feb 20	398	Aug 24	3130	Sep 27 1997
LOWEST DAILY MEAN	1.3	Jun 22	4.3	May 27	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	1.8	Jun 16	4.5	May 24	.00	Jun 10 1958
INSTANTANEOUS PEAK FLOW			445	Aug 24	5200	Sep 11 1960
INSTANTANEOUS PEAK STAGE			24.87	Aug 24	30.64	Sep 27 1997
ANNUAL RUNOFF (CFSM)	2.17		1.01		1.48	
ANNUAL RUNOFF (INCHES)	29.45		13.72		20.06	
10 PERCENT EXCEEDS	112		59		83	
50 PERCENT EXCEEDS	14		14		18	
90 PERCENT EXCEEDS	3.3		7.6		5.8	

02300700 BULLFROG CREEK NEAR WIMAUMA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-58, 1966-75, 1977-83, 1992 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
17...	1145	18.41	11	457	6.10	21.0	--	8.5	--	--	--	--
JAN												
14...	1230	18.49	12	483	6.99	15.5	--	9.7	--	--	--	--
APR												
12...	1220	18.62	15	625	8.67	25.4	--	9.9	--	--	--	--
JUN												
07...	1107	19.19	29	499	7.94	24.5	--	7.2	--	--	--	--
AUG												
09...	1259	19.31	30	410	7.55	27.7	80	6.8	36	15	13	11
SEP												
30...	1405	18.98	23	356	7.62	27.1	80	6.0	29	13	12	10

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
17...	--	--	--	--	--	<.01	.17	.06	.56	.22	.23	--
JAN												
14...	--	--	--	--	--	<.01	.31	.06	.47	.19	.18	--
APR												
12...	--	--	--	--	--	<.01	.19	.01	.25	.24	.21	--
JUN												
07...	--	--	--	--	--	<.01	.19	.05	.68	.31	.31	--
AUG												
09...	110	26	.31	9.1	284	<.01	.20	.09	.66	.41	.37	770
SEP												
30...	79	26	.30	8.8	274	.02	.21	.08	1.1	.41	.35	560

02301000 NORTH PRONG ALAFIA RIVER AT KEYSVILLE, FL

LOCATION.--Lat 27°53'01", long 82°06'01", in SW$^1/_4$ 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^2, 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	551	43	54	46	67	36	21	31	34	520	60	95
2	501	42	54	42	55	36	20	28	31	414	55	139
3	428	42	52	105	78	30	19	26	31	295	62	196
4	351	47	51	110	67	32	19	26	30	234	107	104
5	291	190	52	73	58	35	18	22	31	223	110	83
6	256	216	52	65	54	28	19	21	83	182	107	72
7	218	128	49	64	51	28	19	20	55	149	117	98
8	190	103	52	58	48	27	17	34	60	136	95	109
9	155	92	48	63	48	25	18	41	48	130	85	86
10	182	84	45	54	47	25	18	43	88	142	91	70
11	138	79	46	53	46	25	18	44	97	142	85	57
12	113	73	47	54	53	25	18	46	296	116	82	51
13	111	69	47	55	42	24	17	105	473	134	122	47
14	109	66	69	52	39	25	17	66	563	263	110	49
15	92	64	66	49	37	50	17	126	312	294	85	69
16	81	61	68	52	35	39	17	110	185	230	99	57
17	73	60	77	54	35	30	18	68	155	130	85	44
18	83	65	75	50	36	27	21	50	207	116	89	47
19	82	62	75	49	36	27	21	65	249	128	97	84
20	70	58	66	59	35	25	19	121	371	97	208	156
21	65	56	67	50	36	25	21	60	333	92	214	218
22	85	50	87	79	33	24	22	147	193	113	420	180
23	67	51	85	57	32	25	26	174	164	139	456	125
24	57	52	49	125	31	23	25	126	245	134	476	98
25	53	64	43	166	30	24	18	78	548	130	340	93
26	52	65	43	118	30	34	17	60	482	126	241	94
27	57	63	44	86	29	27	17	49	391	112	189	187
28	53	61	44	83	36	22	20	41	378	86	250	378
29	44	57	46	72	---	21	21	37	481	74	259	358
30	45	57	48	62	---	21	41	39	484	82	130	233
31	43	---	46	63	---	25	---	36	---	72	104	---
TOTAL	4696	2220	1747	2168	1224	870	599	1940	7098	5235	5030	3677
MEAN	151	74.0	56.4	69.9	43.7	28.1	20.0	62.6	237	169	162	123
MAX	551	216	87	166	78	50	41	174	563	520	476	378
MIN	43	42	43	42	29	21	17	20	30	72	55	44
AC-FT	9310	4400	3470	4300	2430	1730	1190	3850	14080	10380	9980	7290

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 1999, BY WATER YEAR (WY)

MEAN	147	103	110	124	147	170	95.4	83.6	125	195	257	282
MAX	481	299	669	367	712	884	412	467	458	664	669	1138
(WY)	1953	1954	1998	1998	1998	1959	1959	1979	1968	1960	1959	1960
MIN	44.7	26.4	22.8	33.5	29.3	28.1	18.3	8.90	12.8	51.1	52.4	38.7
(WY)	1985	1991	1991	1991	1991	1999	1985	1950	1951	1950	1950	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1950 - 1999	
ANNUAL TOTAL	88301		36504			
ANNUAL MEAN	242		100		153	
HIGHEST ANNUAL MEAN					370	1959
LOWEST ANNUAL MEAN					66.1	1990
HIGHEST DAILY MEAN	3040	Mar 20	563	Jun 14	8200	Sep 11 1960
LOWEST DAILY MEAN	29	May 26	17	Apr 8	3.9	May 17 1952
ANNUAL SEVEN-DAY MINIMUM	33	Jun 25	17	Apr 10	4.9	May 27 1953
INSTANTANEOUS PEAK FLOW			624	Jun 14	9570	Sep 11 1960
INSTANTANEOUS PEAK STAGE			7.79	Jun 14	15.86	Sep 11 1960
ANNUAL RUNOFF (AC-FT)	175100		72410		111100	
10 PERCENT EXCEEDS	620		231		299	
50 PERCENT EXCEEDS	85		62		92	
90 PERCENT EXCEEDS	40		24		35	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
17...	0940	2.39	60	609	6.40	20.0	--	7.3	--	--	--	--
JAN												
14...	0940	2.35	52	634	7.63	14.5	--	8.8	--	--	--	--
APR												
12...	0945	1.77	18	719	7.86	23.5	--	6.5	--	--	--	--
JUN												
07...	0900	2.28	48	576	7.81	24.7	--	6.1	--	--	--	--
AUG												
12...	1300	2.70	80	482	7.19	27.0	80	5.8	33	11	46	5.6
SEP												
30...	1025	4.63	233	451	7.54	25.5	80	5.5	35	11	35	4.5

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV											
17...	--	--	--	--	--	.02	1.9	.04	.58	4.2	4.1
JAN											
14...	--	--	--	--	--	.07	1.4	.20	.66	3.8	3.6
APR											
12...	--	--	--	--	--	<.01	1.6	.02	.39	2.7	2.7
JUN											
07...	--	--	--	--	--	.07	1.0	.28	.99	3.0	2.7
AUG											
12...	89	31	3.6	14	313	.02	.52	.03	.64	4.3	4.1
SEP											
30...	90	28	2.8	9.9	312	<.01	.46	.03	.77	3.4	3.4

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
14...	--	--	--	--	--	--	--	--	--	--	--
APR											
12...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
12...	--	--	--	--	--	--	--	--	--	120	--
SEP											
30...	308	3.2	<1.0	1.3	1.3	445	<1	<.1	3.4	110	5.3

02301300 SOUTH PRONG ALAFIA RIVER NEAR LITHIA, FL

LOCATION.--Lat 27°47'47", long 82°07'04", 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^2.

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. Maximum daily discharge, 580 ft^3/s, estimated, Oct. 1, gage height unknown, occurred on recession following peak of Sept. 23, 1998; maximum independent peak discharge, 426 ft^3/s, Oct. 13, gage height 15.32 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e580	69	77	65	72	17	11	4.0	4.6	66	35	84
2	522	69	79	60	66	17	10	3.6	4.2	79	33	79
3	483	71	80	98	62	18	9.3	3.3	4.0	91	33	70
4	443	73	76	109	59	22	8.3	2.9	5.9	100	60	59
5	417	167	75	102	54	21	7.5	2.6	5.7	116	103	46
6	395	196	80	91	50	20	7.0	2.5	6.4	117	126	39
7	364	182	82	84	47	20	6.6	2.4	8.0	110	123	40
8	339	158	74	84	46	20	5.9	2.4	8.6	100	103	39
9	320	138	75	83	46	22	5.1	2.5	10	98	85	40
10	299	120	82	86	44	25	4.7	2.7	21	101	78	37
11	282	107	85	85	40	26	4.4	3.0	16	84	80	35
12	264	99	84	83	36	21	4.7	3.2	14	68	80	89
13	387	93	86	81	33	17	4.9	5.2	15	126	82	140
14	338	90	112	78	30	16	4.3	5.1	17	116	83	133
15	265	86	113	74	28	20	3.7	16	19	101	78	127
16	219	82	109	72	27	20	3.5	11	29	78	82	111
17	187	78	101	70	25	18	4.7	8.3	61	59	77	96
18	168	79	94	64	24	16	8.6	6.2	76	48	78	91
19	156	79	87	61	24	15	6.4	5.0	72	43	80	196
20	148	81	80	64	24	15	5.1	4.3	68	44	106	256
21	137	82	75	68	25	14	4.4	3.7	61	48	119	300
22	125	82	72	69	24	14	3.8	17	52	52	131	308
23	112	78	68	70	22	13	3.5	16	47	68	193	280
24	103	76	64	115	20	12	3.4	14	91	73	245	246
25	97	76	60	132	19	12	3.2	11	98	99	287	217
26	91	78	61	128	19	12	2.8	8.0	93	87	247	193
27	90	75	67	118	18	12	2.6	6.0	86	67	195	190
28	92	70	68	107	18	11	2.5	4.8	79	61	218	242
29	88	72	68	97	---	9.8	2.7	4.2	71	50	203	290
30	78	76	75	86	---	9.1	3.5	3.8	66	40	150	325
31	71	---	72	78	---	9.8	---	4.2	---	36	111	---
TOTAL	7660	2882	2481	2662	1002	514.7	158.1	188.9	1209.4	2426	3704	4398
MEAN	247	96.1	80.0	85.9	35.8	16.6	5.27	6.09	40.3	78.3	119	147
MAX	580	196	113	132	72	26	11	17	98	126	287	325
MIN	71	69	60	60	18	9.1	2.5	2.4	4.0	36	33	35
AC-FT	15190	5720	4920	5280	1990	1020	314	375	2400	4810	7350	8720

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	111	64.7	62.2	84.3	90.8	89.0	66.8	44.7	83.5	136	190	192
MAX	362	205	339	325	396	403	395	175	455	768	673	518
(WY)	1995	1996	1998	1998	1998	1998	1973	1979	1968	1968	1967	1988
MIN	28.0	14.8	13.4	16.2	16.7	11.5	5.27	4.19	10.4	25.7	40.2	23.0
(WY)	1987	1993	1993	1992	1991	1997	1999	1981	1977	1985	1990	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	68465.9		29286.1			
ANNUAL MEAN	188		80.2		101	
HIGHEST ANNUAL MEAN					199	1998
LOWEST ANNUAL MEAN					31.0	1985
HIGHEST DAILY MEAN	940	Sep 23	580	Oct 1	2430	Aug 14 1967
LOWEST DAILY MEAN	6.2	Jun 21	2.4	May 7	1.2	May 25 1981
ANNUAL SEVEN-DAY MINIMUM	8.9	Jun 19	2.6	May 4	1.5	May 20 1981
INSTANTANEOUS PEAK FLOW			Unknown	Unknown	2600	Aug 14 1967
INSTANTANEOUS PEAK STAGE			Unknown	Unknown	17.93	Sep 7 1988
ANNUAL RUNOFF (AC-FT)	135800		58090		73390	
10 PERCENT EXCEEDS	410		188		222	
50 PERCENT EXCEEDS	106		69		59	
90 PERCENT EXCEEDS	27		4.7		16	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
17...	1005	11.74	77	328	6.30	20.5	6.4
JAN							
14...	1015	11.75	78	361	7.57	14.0	9.0
APR							
12...	1020	9.71	4.7	268	8.19	23.9	8.2
JUN							
07...	0930	9.79	7.8	348	8.12	24.8	7.0
AUG							
12...	1345	11.67	80	347	7.33	27.5	4.6
SEP							
30...	1100	14.76	329	212	7.13	25.7	3.9

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
17...	<.01	.37	.04	.71	.82	.79
JAN						
14...	<.01	.30	.02	.48	.48	.48
APR						
12...	.01	.73	.03	.43	.79	.72
JUN						
07...	.01	1.0	.04	.66	.46	.48
AUG						
12...	<.01	.18	.03	.65	.88	.74
SEP						
30...	<.01	.07	.02	.95	.96	.81

02301500 ALAFIA RIVER AT LITHIA, FL

LOCATION.--Lat 27°52'19", long 82°12'41", in NE 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^2, approximately.

WATER-DISCHARGE RECORDS

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 recorder. 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 fair. Maximum discharge from rating curve extended above 21,000 ft^3/s. Maximum gage height from floodmarks. Maximum discharge, 1,690 ft^3/s, Oct. 1, gage height 12.07 ft, occurred on recession following peak of Sept. 27, 1998; maximum independent peak discharge, 842 ft^3/s, Aug. 23, gage height 8.39 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	153	150	134	176	82	52	50	51	e530	112	256
2	1320	148	148	125	160	e76	50	44	50	e500	e100	255
3	1130	148	149	264	170	e70	49	42	50	450	111	319
4	968	164	147	320	165	e68	48	41	54	374	183	248
5	831	437	143	247	147	e65	48	41	50	351	260	185
6	740	527	145	218	136	e64	47	39	64	339	273	169
7	680	413	146	206	128	e64	47	39	75	e310	e275	175
8	621	342	145	182	121	e65	46	40	73	265	248	208
9	566	296	138	185	118	65	46	51	65	259	221	183
10	543	264	137	184	116	68	46	52	86	269	244	166
11	513	237	142	182	112	70	46	54	130	274	217	143
12	512	218	144	174	111	70	45	50	181	235	200	132
13	768	204	149	165	103	66	45	90	409	230	218	187
14	657	194	184	166	90	70	45	98	480	410	239	208
15	561	187	203	153	84	95	44	111	412	449	207	222
16	441	177	192	149	82	104	45	142	251	446	229	211
17	372	170	195	153	e80	80	46	102	242	300	210	172
18	340	167	191	146	e79	71	48	69	280	213	201	164
19	330	172	181	138	e78	67	48	62	333	215	221	254
20	305	164	174	141	e77	63	46	130	382	174	309	410
21	288	170	163	141	e75	61	45	83	443	157	447	548
22	307	178	170	151	e74	59	46	115	304	173	685	553
23	269	166	181	163	e73	59	46	187	247	208	778	493
24	236	157	149	376	e72	58	47	181	268	249	721	430
25	220	164	122	385	e70	56	44	110	476	213	694	383
26	207	169	119	312	e70	60	40	79	577	250	587	347
27	202	166	124	249	e69	67	39	67	494	232	487	382
28	199	157	127	221	e68	52	41	59	453	179	476	669
29	185	150	131	209	---	50	41	56	475	151	516	723
30	175	150	141	185	---	50	47	55	562	146	403	587
31	160	---	142	172	---	50	---	53	---	e130	305	---
TOTAL	16196	6409	4772	6196	2904	2065	1373	2392	8017	8681	10377	9382
MEAN	522	214	154	200	104	66.6	45.8	77.2	267	280	335	313
MAX	1550	527	203	385	176	104	52	187	577	530	778	723
MIN	160	148	119	125	68	50	39	39	50	130	100	132
MED	441	170	147	182	87	65	46	59	260	250	248	251
AC-FT	32120	12710	9470	12290	5760	4100	2720	4740	15900	17220	20580	18610
CFSM	1.56	.64	.46	.60	.31	.20	.14	.23	.80	.84	1.00	.93
IN.	1.80	.71	.53	.69	.32	.23	.15	.27	.89	.96	1.15	1.04

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1933 - 1999, BY WATER YEAR (WY)

MEAN	348	187	193	243	281	311	199	131	296	521	627	742
MAX	1374	718	1463	1009	1698	1874	900	748	1029	2696	2319	4185
(WY)	1939	1954	1998	1948	1998	1959	1959	1957	1934	1945	1949	1933
MIN	50.9	28.0	42.5	52.4	52.2	35.4	25.0	13.0	27.0	80.6	138	74.5
(WY)	1941	1941	1991	1991	1943	1935	1945	1945	1951	1956	1989	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1933 - 1999	
ANNUAL TOTAL	215834		78764			
ANNUAL MEAN	591		216		340	
HIGHEST ANNUAL MEAN					845	1960
LOWEST ANNUAL MEAN					136	1956
HIGHEST DAILY MEAN	5050	Mar 21	1550	Oct 1	40800	Sep 7 1933
LOWEST DAILY MEAN	48	Jun 30	39	Apr 27	6.6	Jun 6 1945
ANNUAL SEVEN-DAY MINIMUM	58	Jun 20	41	May 2	7.0	May 31 1945
INSTANTANEOUS PEAK FLOW			842	Aug 23	45900	Sep 7 1933
INSTANTANEOUS PEAK STAGE			8.39	Aug 23	28.50	Sep 7 1933
ANNUAL RUNOFF (AC-FT)	428100		156200		246500	
ANNUAL RUNOFF (CFSM)	1.77		.64		1.02	
ANNUAL RUNOFF (INCHES)	23.97		8.75		13.80	
10 PERCENT EXCEEDS	1350		476		727	
50 PERCENT EXCEEDS	226		166		176	
90 PERCENT EXCEEDS	79		50		58	

02301500 ALAFIA RIVER AT LITHIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
17...	0910	3.91	171	415	6.30	19.5	--	7.7	--	--	--	--
JAN												
14...	0850	4.00	169	457	7.53	12.5	50	9.4	35	13	36	4.0
APR												
12...	0855	2.60	46	560	8.06	23.4	30	5.6	39	14	52	4.9
JUN												
07...	0825	2.97	81	433	7.63	24.9	--	6.3	--	--	--	--
AUG												
12...	0936	4.08	200	378	6.60	26.8	100	6.1	29	11	29	3.7
SEP												
30...	0905	6.96	596	317	7.75	25.6	140	5.8	26	10	22	3.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV											
17...	--	--	--	--	--	<.01	.98	.05	.52	2.4	2.2
JAN											
14...	84	24	1.6	7.5	296	.02	.87	.09	.61	1.8	1.7
APR											
12...	130	28	1.1	5.9	358	.01	1.1	.02	.31	2.2	2.2
JUN											
07...	--	--	--	--	--	<.01	.87	.03	.56	2.3	2.1
AUG											
12...	56	23	2.0	9.6	248	<.01	.48	.02	.56	2.3	2.2
SEP											
30...	52	18	1.7	7.6	232	<.01	.33	.04	.85	1.8	1.7

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
JAN											
14...	103	<1.0	<1.0	<1.0	<1.0	136	<1	<.1	1.7	100	1.5
APR											
12...	31	4.1	<1.0	<1.0	<1.0	58	<1	<.1	1.4	180	1.8
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
AUG											
12...	188	2.1	<1.0	1.0	1.4	416	<1	<.1	1.4	96	2.6
SEP											
30...	294	2.2	1.0	1.0	4.5	436	30	<.1	14	79	3.3

02301600 LITHIA SPRINGS NEAR LITHIA, FL

LOCATION.--Lat 27°52'00", long 82°13'50", in SW$^1/_4$ 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.

WATER-DISCHARGE RECORDS

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.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 83 ft^3/s, Oct. 3, 1967; minimum measured, 6.2 ft^3/s, Feb. 8, 1989.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Time	Major Spring Instantaneous Discharge (cfs)	Time	Minor Spring Instantaneous Discharge (cfs)	Total Flow Measured (cfs)	Diversion by pumping (cfs)
Dec. 03	0845	43	0955	9.6	53	7.0
Jan. 28	0925	45	1100	7.5	52	6.7
Apr. 02	0940	25	1050	8.8	34	7.1
May 21	0910	22	1030	9.4	31	7.2
Aug. 12	1020	43	1105	9.4	52	7.6

02301600 LITHIA SPRINGS NEAR LITHIA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923, 1946, 1956-58, 1960, 1965, 1967 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
AUG												
12...	1130	9.35	52	487	7.25	25.8	5	3.4	65	10	15	.8
SEP												
30...	0940	10.64	--	503	7.99	24.5	<5	2.7	65	10	15	.8

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
AUG												
12...	73	29	.25	15	312	<.01	2.7	.02	<.20	.07	.07	1200
SEP												
30...	77	29	.27	14	320	<.01	2.8	.02	<.20	.05	.07	1200

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL

LOCATION.--Lat 27°51'31", long 82°16'26", in NE$^1/_4$ 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^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--April 1998 to current year (gage heights only).
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929.
REMARKS.--Interruptions in record were due to malfunctions of the instruments.
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.40 ft, Sept. 22, 1998; minimum, 0.29 ft below NGVD, Apr. 16, 1999.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.78 ft, Oct. 13; minimumm, 0.29 ft below NGVD, Apr. 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.64	4.71	2.30	.62	1.85	.53	2.10	.45	2.29	.71	2.30	.23
2	4.89	4.13	2.44	.61	1.74	.51	3.31	.42	---	---	2.33	.18
3	4.49	3.61	2.68	.58	2.01	.52	4.55	.85	2.33	.72	2.87	.27
4	4.10	3.18	2.82	.57	2.16	.51	2.35	.94	2.11	.75	1.47	.14
5	3.79	2.86	2.42	1.42	2.05	.50	1.39	.73	1.79	.64	1.49	.16
6	3.45	2.69	2.61	2.01	2.04	.50	1.13	.68	1.94	.59	1.98	.16
7	3.46	2.47	---	---	2.16	.51	1.35	.67	2.07	.62	1.74	.11
8	3.28	2.26	---	---	1.99	.50	1.65	.62	1.95	.67	1.12	.10
9	3.17	2.05	---	---	1.34	.48	2.53	.75	1.99	.58	2.48	.09
10	2.92	1.93	2.09	.99	1.11	.46	1.26	.61	1.71	.44	1.60	.25
11	2.69	1.81	1.91	.89	1.20	.49	1.02	.60	1.89	.41	1.46	.11
12	3.04	1.60	1.62	.81	1.76	.51	1.84	.56	2.21	.39	1.55	.08
13	5.78	3.04	1.84	.77	1.82	.56	2.01	.55	2.25	.36	2.38	.06
14	4.02	2.92	2.01	.79	1.76	.61	2.49	.55	1.22	.29	3.24	.18
15	3.30	2.16	2.03	.73	1.55	.70	2.42	.51	1.63	.27	2.50	.28
16	2.49	1.66	2.10	.68	1.70	.65	2.04	.49	2.05	.26	1.40	.28
17	2.25	1.42	2.28	.64	1.70	.66	2.26	.50	2.53	.25	1.61	.16
18	2.36	1.35	1.98	.60	1.95	.64	2.23	.50	2.94	.36	1.99	.12
19	2.39	1.28	1.90	.62	2.18	.60	2.15	.47	2.34	.44	2.07	.08
20	2.23	1.17	2.11	.58	2.28	.59	2.07	.46	1.75	.25	2.25	.05
21	2.12	1.09	2.01	.61	2.35	.55	1.92	.49	1.63	.24	2.43	.05
22	2.07	1.14	1.48	.79	2.12	.56	2.24	.48	1.28	.21	1.92	.05
23	1.15	.99	1.83	.66	1.80	.62	2.60	.76	2.00	.19	1.97	.02
24	1.46	.88	1.67	.59	1.94	.53	2.50	1.58	1.75	.17	1.71	.03
25	1.63	.83	1.73	.61	1.74	.43	1.97	1.54	1.89	.15	1.88	.00
26	---	---	1.55	.62	1.55	.40	1.87	1.29	2.11	.14	1.38	.00
27	---	---	1.28	.60	1.45	.41	2.32	1.04	2.10	.13	1.16	.08
28	2.07	.77	1.36	.57	2.09	.43	2.44	.91	2.61	.14	1.29	-.01
29	2.16	.74	1.66	.55	2.94	.46	2.45	.87	---	---	1.49	-.06
30	2.22	.71	1.84	.53	2.86	.47	2.53	.77	---	---	1.60	-.07
31	2.18	.63	---	---	1.91	.48	2.55	.72	---	---	1.92	-.07
MONTH	---	---	---	---	2.94	.40	4.55	.42	---	---	3.24	-.07

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--continued

GAGE HEIGHT, FEET, PERIOD WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.18	-.01	1.74	-.10	2.08	-.12	2.81	1.65	2.29	.42	2.25	1.05
2	1.88	-.07	2.02	-.15	2.24	-.14	2.72	1.66	1.82	.40	2.20	1.12
3	1.74	-.10	2.24	-.16	2.14	-.15	2.60	1.36	2.19	.43	2.37	1.30
4	1.95	-.12	2.88	-.17	1.90	-.09	2.64	1.19	1.97	.59	2.68	.94
5	1.94	-.13	3.22	-.10	1.71	-.05	2.00	1.15	2.51	1.02	2.73	.79
6	1.91	-.15	2.79	-.13	1.19	-.04	2.22	1.15	3.06	1.20	3.80	.77
7	1.75	-.16	2.38	-.04	1.09	.16	2.42	.98	2.70	1.07	3.08	.77
8	2.08	-.18	1.98	-.06	1.33	.07	2.42	.94	2.69	.85	3.23	.92
9	2.02	-.18	1.68	-.05	1.72	.10	2.53	.98	3.01	1.14	2.90	.80
10	1.68	-.09	1.85	-.06	2.32	.23	2.73	.96	3.16	.90	2.76	.73
11	1.89	-.19	2.06	-.02	2.25	.36	2.86	.86	3.11	.80	2.50	.63
12	1.76	-.17	2.11	.06	2.56	.50	2.97	.71	2.48	.71	2.14	.60
13	1.53	-.23	2.62	.11	2.76	1.11	2.94	.86	2.42	.75	1.82	.63
14	2.14	-.22	3.03	.20	2.93	1.41	3.15	1.10	2.68	.89	1.47	.76
15	3.59	.32	2.44	.50	2.92	1.01	2.96	1.65	2.66	.93	1.82	.82
16	2.38	-.29	2.30	.35	3.20	.69	2.71	1.45	2.08	.93	2.52	.95
17	1.57	-.23	2.37	.15	3.17	.69	2.33	.94	2.03	.84	2.21	.70
18	1.30	-.23	2.53	.02	2.21	.83	2.13	.84	2.17	.83	2.67	.65
19	1.80	-.15	2.77	.02	2.26	1.03	1.69	.78	2.31	.91	3.31	1.55
20	2.03	-.18	2.30	.01	1.92	1.17	1.80	.68	2.43	1.76	3.54	2.34
21	1.94	-.21	2.13	.24	2.20	1.49	1.59	.56	3.49	1.60	3.80	2.49
22	2.07	-.22	1.59	.05	1.82	.92	1.88	.65	3.53	2.47	3.26	2.11
23	1.43	-.18	1.61	.56	1.85	.83	2.14	.86	3.85	2.84	3.03	1.83
24	1.37	-.15	2.13	.67	2.21	.88	2.63	.91	3.53	2.58	3.20	1.57
25	2.04	-.15	1.99	.29	2.55	1.49	2.64	.90	3.70	2.52	3.29	1.43
26	2.03	-.21	2.00	.14	2.79	1.76	2.49	.86	3.33	2.12	3.08	1.37
27	2.38	.05	1.98	.04	2.91	1.49	2.67	.79	3.05	1.73	2.82	1.42
28	2.52	-.10	1.90	-.04	2.67	1.44	2.64	.59	3.05	1.80	3.44	1.87
29	2.33	-.20	1.82	-.08	2.85	1.49	2.74	.53	3.23	1.93	3.78	2.58
30	2.31	-.06	1.98	-.06	3.07	1.65	2.48	.57	2.87	1.42	3.37	2.14
31	---	---	2.27	-.09	---	---	2.63	.45	2.28	1.12	---	---
MONTH	3.59	-.29	3.22	-.17	3.20	-.15	3.15	.45	3.85	.40	3.80	.60

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--continued

WATER-QUALITY RECORDS

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

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature probes located at a gage height of 0.00 ft for the top probe and a gage height of -1.50 ft for the bottom probe.

REMARKS.--Interruptions in record were due to malfunctions of the instruments or silt and debris buildup in probe.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 618 microsiemens, May 14, 1999; bottom probe maximum, 621 microsiemens, May 14, 1999; top probe minimum, 91 microsiemens, Sept.. 20, 1998; bottom probe minimum, 94 microsiemens, Sept. 28, 1998.

TEMPERATURE.--Top probe maximum, 29.0°C, July 28, 1998; bottom probe maximum, 29.0°C, July 28, 1998; top probe minimum, 12.9°C, Jan. 7, 1999; bottom probe minimum, 12.9°C, Jan. 7, 1999.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 618 microsiemens, May 14; bottom probe maximum, 621 microsiemens, May 14; top probe minimum, 130 microsiemens, Oct. 13; bottom probe minimum, 157 microsiemens, Sept. 28.

TEMPERATURE.--Top probe maximum, 28.6°C, Aug. 1; bottom probe maximum, 28.6°C, Aug. 1; top probe minimum, 12.9°C, Jan. 7; bottom probe minimum, 12.9°C, Jan. 7.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(AT GAGE-HEIGHT OF 0.00 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	283	273	444	439	465	458	455	449	533	522	456	443
2	299	282	450	440	465	458	467	449	546	522	473	450
3	313	298	445	439	464	458	466	369	524	508	473	458
4	323	312	445	409	462	455	392	374	515	495	459	450
5	333	321	409	315	462	457	397	381	510	498	457	449
6	338	331	345	309	463	455	426	396	517	509	460	449
7	346	337	374	343	465	456	438	422	519	510	471	459
8	364	344	406	373	462	456	450	436	523	514	469	459
9	372	361	420	406	468	460	448	441	520	509	466	458
10	387	371	427	418	467	459	452	439	516	507	466	461
11	390	385	430	424	461	455	441	429	514	507	465	457
12	389	305	435	427	464	456	446	437	515	508	463	455
13	305	130	437	424	464	456	460	444	533	513	462	453
14	270	228	439	425	458	440	460	439	534	515	467	448
15	315	270	438	432	445	435	455	449	523	509	449	422
16	346	314	438	435	440	426	458	447	516	508	451	417
17	360	346	436	423	447	435	462	454	517	508	443	428
18	368	359	435	423	461	446	466	459	514	504	438	427
19	378	367	442	428	466	457	468	462	509	497	442	428
20	390	377	443	438	471	462	465	459	504	497	445	437
21	392	384	441	423	471	462	466	458	510	496	458	443
22	385	371	424	372	469	463	553	459	505	496	460	452
23	392	379	404	381	482	467	585	547	504	493	461	448
24	409	391	422	404	484	476	562	331	501	457	461	448
25	416	407	429	416	479	465	439	365	463	457	463	451
26	419	413	445	428	468	462	480	432	463	453	457	450
27	424	417	450	438	465	460	494	476	458	450	456	449
28	445	423	459	448	463	456	509	488	461	454	493	455
29	448	437	462	453	461	455	530	506	---	---	501	489
30	442	436	463	458	461	447	531	523	---	---	497	474
31	445	439	---	---	455	449	529	521	---	---	477	463
MONTH	448	130	463	309	484	426	585	331	546	450	501	417

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(AT GAGE-HEIGHT OF 0.00 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	470	464	543	517	527	513	416	378	449	437	375	360
2	466	458	545	472	514	499	391	366	445	436	373	351
3	470	462	474	460	509	491	424	391	445	428	373	352
4	472	455	523	471	492	459	438	420	431	394	374	359
5	460	454	548	522	474	456	461	433	416	338	384	368
6	461	453	553	543	508	452	454	437	379	331	386	368
7	465	456	556	546	512	450	444	431	380	360	375	366
8	468	463	552	518	481	422	441	428	375	360	374	361
9	469	464	572	527	522	466	445	417	386	326	378	358
10	484	463	615	571	508	481	428	421	379	333	390	378
11	504	484	590	543	520	505	429	422	394	373	395	386
12	506	497	572	539	530	454	447	428	394	378	402	393
13	516	501	579	543	551	246	453	417	414	392	396	357
14	524	502	618	465	358	282	417	352	432	413	357	305
15	522	500	476	417	368	289	372	310	415	394	337	324
16	523	515	534	412	424	366	310	267	410	398	351	337
17	520	507	467	436	476	424	347	292	409	381	353	340
18	519	507	481	457	503	455	373	347	401	391	365	324
19	533	518	526	480	466	404	408	372	399	244	324	299
20	532	521	570	526	443	380	430	406	331	275	302	250
21	523	500	567	356	380	344	423	409	305	207	250	232
22	507	498	487	388	464	369	444	422	258	203	271	246
23	527	501	512	351	524	463	446	428	265	244	298	269
24	527	479	419	344	545	504	463	437	298	257	325	298
25	557	495	410	377	522	308	438	367	287	263	354	323
26	557	516	443	410	430	309	406	376	319	287	365	351
27	544	517	472	443	476	430	395	377	334	319	377	349
28	533	486	492	471	482	440	400	371	343	319	361	207
29	520	488	515	492	460	407	420	398	321	281	307	222
30	517	499	523	513	410	382	420	411	333	283	321	307
31	---	---	527	519	---	---	445	412	361	333	---	---
MONTH	557	453	618	344	551	246	463	267	449	203	402	207

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(AT GAGE HEIGHT OF -1.50 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	---	---	---	---	500	482	459	441
2	---	---	---	---	---	---	---	---	516	491	473	448
3	---	---	---	---	---	---	---	---	497	471	477	454
4	---	---	---	---	---	---	---	---	483	459	461	445
5	---	---	---	---	---	---	---	---	487	461	456	443
6	---	---	---	---	---	---	---	---	487	470	459	445
7	---	---	---	---	---	---	---	---	487	464	473	456
8	---	---	---	---	---	---	---	---	487	474	470	456
9	---	---	---	---	---	---	---	---	488	470	465	454
10	---	---	---	---	---	---	---	---	482	466	467	456
11	---	---	---	---	---	---	---	---	480	465	466	451
12	---	---	---	---	---	---	---	---	478	467	464	450
13	---	---	---	---	---	---	---	---	495	471	461	450
14	---	---	---	---	---	---	---	---	497	475	469	443
15	---	---	---	---	---	---	---	---	487	466	449	417
16	---	---	---	---	---	---	---	---	482	464	451	416
17	---	---	---	---	---	---	---	---	479	464	444	426
18	---	---	---	---	---	---	---	---	480	460	438	424
19	---	---	---	---	---	---	---	---	475	451	444	432
20	---	---	---	---	---	---	---	---	472	450	445	434
21	---	---	---	---	---	---	---	---	474	453	460	440
22	---	---	---	---	---	---	---	---	470	452	463	449
23	---	---	---	---	---	---	552	513	469	452	463	445
24	---	---	---	---	---	---	534	309	467	451	461	449
25	---	---	---	---	---	---	413	343	467	452	463	449
26	---	---	---	---	---	---	445	402	465	451	456	443
27	---	---	---	---	---	---	459	443	460	448	458	445
28	---	---	---	---	---	---	473	451	464	452	494	452
29	---	---	---	---	---	---	493	462	---	---	503	488
30	---	---	---	---	---	---	497	479	---	---	498	470
31	---	---	---	---	---	---	495	480	---	---	479	458
MONTH	---	---	---	---	---	---	---	---	516	448	503	416

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	471	459	542	514	530	507	441	385	482	465	401	385
2	468	454	546	473	516	493	416	376	480	466	394	358
3	471	456	474	456	513	488	464	413	480	458	376	363
4	474	450	526	467	496	450	478	441	469	421	379	363
5	461	449	545	519	474	450	487	466	444	366	389	374
6	464	446	555	538	502	447	486	461	407	354	394	371
7	464	451	555	541	516	446	481	461	410	380	382	370
8	472	458	551	513	481	417	481	460	399	381	377	360
9	469	457	570	523	524	459	492	443	407	343	378	358
10	479	456	607	570	509	474	473	448	400	342	400	374
11	503	479	588	537	521	500	479	457	421	391	406	387
12	506	490	576	536	531	447	485	468	421	400	410	392
13	520	497	578	537	555	245	495	449	442	419	405	370
14	521	498	621	335	362	284	459	339	458	438	370	311
15	528	492	478	412	369	292	401	274	439	417	346	327
16	528	509	533	409	424	363	322	267	436	421	357	342
17	524	502	466	433	481	420	384	322	436	400	367	348
18	519	503	481	452	502	446	415	380	431	415	372	328
19	532	512	528	418	464	402	442	401	426	256	328	297
20	533	517	574	519	439	376	470	440	358	297	306	247
21	526	494	566	348	379	335	489	438	329	222	253	232
22	504	493	486	385	464	367	481	450	254	212	280	249
23	525	496	519	347	527	457	483	457	273	249	305	277
24	524	472	423	303	554	502	495	465	298	260	340	303
25	558	489	409	372	530	302	470	393	294	273	366	339
26	558	509	446	405	434	302	440	404	326	293	380	364
27	545	514	474	438	492	429	451	407	342	324	384	350
28	532	483	493	463	498	441	431	399	353	337	364	157
29	518	486	521	490	477	415	455	428	340	305	207	169
30	516	492	525	508	429	391	455	441	354	309	231	205
31	---	---	533	515	---	---	478	442	392	350	---	---
MONTH	558	446	621	303	555	245	495	267	482	212	410	157

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(AT GAGE-HEIGHT OF 0.00 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.5	26.1	22.9	21.8	21.1	20.1	18.6	17.6	21.5	20.6	19.9	18.5
2	26.8	26.4	23.0	21.9	21.3	20.3	19.6	18.4	21.6	20.9	20.2	18.1
3	26.9	26.3	22.9	22.4	21.7	20.7	19.6	18.7	22.3	21.2	19.8	19.0
4	26.8	26.1	22.9	22.4	22.0	21.1	18.7	17.0	22.5	21.4	19.6	18.2
5	26.8	26.0	22.4	21.1	22.3	21.4	17.0	15.0	22.4	21.5	19.4	17.3
6	27.0	26.3	21.1	19.8	22.3	21.5	15.0	13.7	21.7	20.6	20.0	17.9
7	27.1	26.4	19.8	19.1	22.2	21.2	14.2	12.9	21.4	20.2	20.6	18.6
8	26.9	26.3	20.0	19.2	22.1	21.1	15.4	13.8	21.9	20.6	20.8	19.0
9	26.8	26.2	20.6	19.7	22.0	21.0	16.7	15.2	22.1	20.9	21.1	19.2
10	26.7	26.1	21.4	20.3	22.1	21.2	17.4	16.6	22.2	21.1	22.1	20.3
11	26.2	25.7	22.2	21.1	22.2	21.6	16.7	15.9	22.3	21.1	21.4	19.6
12	26.1	25.5	22.6	21.5	22.7	22.0	16.7	15.6	22.3	21.2	21.4	19.3
13	25.5	24.5	23.0	22.0	22.7	22.2	16.9	15.7	21.9	19.9	21.7	19.6
14	25.4	25.0	23.0	22.3	22.5	21.1	17.8	16.6	19.9	18.5	21.4	20.5
15	25.3	24.7	22.8	21.8	21.1	19.7	19.0	17.8	19.1	17.7	20.5	19.0
16	25.2	24.6	22.9	21.9	19.7	18.0	19.6	18.4	19.3	17.8	19.7	17.9
17	24.7	24.2	23.0	22.0	18.0	16.9	20.3	19.3	20.0	18.5	20.3	18.1
18	24.8	24.1	23.0	22.0	17.1	16.1	20.7	19.7	21.1	19.5	20.8	18.9
19	24.9	24.0	23.4	22.5	17.5	16.4	21.3	20.3	21.5	20.1	21.4	19.2
20	25.0	24.4	23.7	22.7	18.9	17.4	21.6	20.7	21.1	20.0	21.9	19.8
21	25.2	24.6	23.8	23.0	20.2	18.9	21.4	20.4	20.0	18.3	21.9	20.5
22	25.2	24.2	23.6	23.0	21.1	19.9	21.3	20.2	18.5	17.5	21.7	19.9
23	24.2	22.8	23.8	23.0	21.4	20.4	21.8	20.8	18.2	16.7	21.8	19.4
24	22.9	22.2	24.0	23.3	21.6	20.7	21.5	20.3	18.5	16.6	22.0	19.8
25	23.0	22.1	23.6	23.0	21.7	20.8	20.3	19.2	18.6	16.6	22.1	19.9
26	23.0	22.1	23.5	22.9	21.5	20.7	19.2	18.3	19.2	17.0	22.1	20.6
27	23.1	22.1	22.9	22.1	20.8	20.2	19.1	18.1	19.7	17.6	22.0	20.2
28	23.0	22.0	22.1	21.0	20.6	20.1	19.6	18.6	20.1	18.6	22.1	19.7
29	23.0	21.9	21.2	20.3	20.9	20.1	20.1	19.0	---	---	22.6	20.2
30	22.8	21.7	21.1	20.1	20.5	19.1	20.7	19.4	---	---	22.6	20.9
31	22.8	21.7	---	---	19.1	17.9	21.1	20.1	---	---	22.4	21.4
MONTH	27.1	21.7	24.0	19.1	22.7	16.1	21.8	12.9	22.5	16.6	22.6	17.3

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	27.0	21.7	23.5	22.0	26.3	24.5	25.7	25.0	28.6	27.1	27.7	26.8
2	23.7	22.1	23.0	21.1	26.0	24.7	25.9	24.8	28.5	27.0	27.3	26.4
3	24.5	22.4	23.5	21.3	26.4	24.6	26.1	25.2	27.6	26.7	27.2	26.1
4	24.9	23.1	24.0	21.5	26.2	24.7	26.4	25.4	27.0	26.2	27.2	25.9
5	24.8	23.1	24.2	22.6	26.3	24.7	26.9	25.5	26.9	25.9	27.1	25.8
6	25.0	23.3	25.3	23.6	26.5	24.6	27.1	25.8	26.4	25.9	26.5	25.7
7	25.3	23.7	25.4	24.5	25.8	25.1	27.4	26.0	27.3	26.0	26.0	25.3
8	25.0	22.8	25.6	23.8	25.4	24.8	27.3	26.2	27.8	26.3	26.2	25.4
9	25.3	23.6	25.5	24.1	25.4	24.6	27.2	26.1	27.4	26.3	26.7	25.4
10	25.6	23.9	25.0	23.7	26.3	24.4	27.2	25.9	26.9	25.8	26.7	25.6
11	25.3	23.6	25.2	23.2	27.0	25.1	27.6	26.3	27.0	26.1	27.1	25.6
12	25.5	24.0	24.8	23.6	26.9	25.1	27.6	26.6	26.9	26.2	27.4	25.9
13	25.0	23.0	25.1	22.8	26.1	24.3	27.5	26.1	27.9	26.1	27.4	26.2
14	24.7	22.7	24.8	23.4	25.8	24.4	26.7	25.8	28.3	26.8	26.9	25.9
15	24.7	23.5	24.8	23.5	26.1	24.8	26.9	25.8	28.4	26.8	26.6	25.7
16	24.8	23.9	25.1	23.3	26.1	25.3	26.7	25.4	28.4	26.7	26.8	25.3
17	23.9	21.6	25.1	23.1	25.8	25.2	26.7	25.7	27.8	26.5	26.5	24.9
18	22.4	20.8	25.3	23.6	25.4	25.0	27.2	25.7	27.5	26.0	26.0	25.3
19	22.1	20.0	25.8	24.2	25.9	24.7	27.4	25.8	27.0	25.4	25.5	25.0
20	22.2	19.7	25.3	24.0	25.3	24.7	28.3	26.4	26.4	25.3	25.3	24.9
21	22.8	20.4	24.6	23.5	25.0	24.4	28.3	26.6	26.9	25.7	25.3	24.8
22	23.4	21.3	24.7	23.5	25.6	24.5	28.2	26.7	26.1	25.6	25.2	24.6
23	24.3	22.2	24.3	23.5	26.1	25.0	27.6	26.5	26.2	25.6	24.6	24.0
24	24.8	22.7	24.5	23.1	26.3	25.3	27.7	26.7	26.6	25.7	24.4	23.7
25	25.4	23.2	25.8	23.4	26.0	25.3	27.7	26.4	26.7	25.8	24.9	23.9
26	25.6	24.1	26.1	24.3	25.9	25.1	27.3	26.5	27.4	26.5	25.0	24.5
27	26.1	24.6	26.4	24.7	26.6	25.3	27.5	26.4	28.0	27.0	25.5	24.8
28	26.1	25.0	26.6	24.9	26.1	25.6	28.2	26.4	28.1	27.3	25.6	25.1
29	25.8	24.3	26.7	24.9	25.7	25.2	28.3	26.7	27.8	27.0	26.2	25.3
30	25.3	23.5	26.3	24.8	25.6	24.8	28.1	26.9	28.0	27.0	26.3	25.5
31	---	---	25.9	24.7	---	---	28.2	26.9	28.2	27.2	---	---
MONTH	27.0	19.7	26.7	21.1	27.0	24.3	28.3	24.8	28.6	25.3	27.7	23.7

02301638 ALAFIA RIVER AT BELL SHOALS NEAR RIVERVIEW, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(AT GAGE HEIGHT OF -1.50 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.5	26.1	22.9	21.8	21.1	20.1	18.6	17.6	21.5	20.6	19.9	18.5
2	26.8	26.4	22.9	21.9	21.3	20.3	19.6	18.4	21.6	20.9	20.2	18.2
3	26.9	26.3	22.9	22.4	21.7	20.7	19.6	18.7	22.2	21.2	19.8	19.0
4	26.8	26.1	22.9	22.4	22.0	21.1	18.7	17.0	22.5	21.4	19.6	18.2
5	26.8	26.0	22.4	21.1	22.2	21.4	17.0	15.0	22.4	21.5	19.4	17.4
6	27.0	26.3	21.1	19.8	22.3	21.5	15.0	13.7	21.7	20.6	20.0	17.9
7	27.1	26.4	19.8	19.1	22.2	21.2	14.2	12.9	21.4	20.2	20.6	18.6
8	26.9	26.3	20.0	19.2	22.0	21.1	15.4	13.8	21.9	20.6	20.8	19.0
9	26.8	26.2	20.6	19.7	22.0	21.0	16.7	15.2	22.1	20.9	21.1	19.2
10	26.7	26.1	21.4	20.3	22.1	21.2	17.4	16.6	22.2	21.1	22.1	20.3
11	26.2	25.7	22.2	21.1	22.2	21.6	16.7	15.9	22.3	21.1	21.4	19.6
12	26.1	25.5	22.6	21.5	22.7	22.0	16.7	15.6	22.3	21.2	21.4	19.4
13	25.5	24.5	23.0	22.0	22.7	22.2	16.9	15.7	21.8	19.9	21.7	19.6
14	25.4	25.0	23.0	22.3	22.5	21.2	17.8	16.6	19.9	18.5	21.4	20.5
15	25.3	24.7	22.8	21.8	21.2	19.8	18.9	17.8	19.1	17.7	20.5	19.0
16	25.2	24.6	22.9	21.9	19.8	18.0	19.6	18.4	19.3	17.8	19.7	17.9
17	24.7	24.2	23.0	22.0	18.0	16.9	20.3	19.3	20.0	18.5	20.3	18.2
18	24.8	24.1	23.0	22.0	17.1	16.1	20.7	19.7	21.1	19.5	20.8	18.9
19	24.9	24.0	23.4	22.5	17.5	16.4	21.2	20.3	21.4	20.1	21.4	19.2
20	25.0	24.4	23.7	22.7	18.9	17.4	21.6	20.7	21.1	20.0	21.9	19.8
21	25.1	24.6	23.8	23.0	20.1	18.9	21.4	20.4	20.0	18.3	21.9	20.5
22	25.2	24.2	23.6	23.0	21.1	19.9	21.3	20.2	18.6	17.6	21.7	19.9
23	24.2	22.9	23.8	23.0	21.4	20.4	21.8	20.8	18.2	16.7	21.8	19.4
24	22.9	22.2	23.9	23.3	21.6	20.7	21.5	20.3	18.5	16.6	22.0	19.8
25	23.0	22.1	23.6	23.0	21.7	20.8	20.3	19.2	18.6	16.6	22.1	19.9
26	23.0	22.1	23.5	22.9	21.5	20.7	19.2	18.2	19.2	17.1	22.1	20.6
27	23.1	22.1	23.0	22.1	20.8	20.2	19.1	18.1	19.7	17.6	22.0	20.1
28	23.0	22.0	22.1	21.1	20.5	20.1	19.6	18.6	20.1	18.6	22.1	19.8
29	23.0	21.9	21.2	20.3	20.9	20.1	20.1	19.0	---	---	22.6	20.2
30	22.7	21.7	21.1	20.1	20.5	19.1	20.6	19.4	---	---	22.6	20.9
31	22.8	21.7	---	---	19.1	17.9	21.0	20.1	---	---	22.4	21.4
MONTH	27.1	21.7	23.9	19.1	22.7	16.1	21.8	12.9	22.5	16.6	22.6	17.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	26.5	21.7	23.4	22.0	26.3	24.5	25.7	25.0	28.6	27.1	27.6	26.9
2	23.7	22.1	23.0	21.1	26.0	24.7	25.9	24.8	28.5	27.0	27.2	26.4
3	24.5	22.4	23.5	21.3	26.4	24.6	26.1	25.2	27.6	26.7	27.1	26.1
4	24.9	23.1	24.0	21.5	26.2	24.7	26.4	25.4	27.0	26.2	27.1	26.0
5	24.9	23.1	24.2	22.6	26.3	24.7	26.9	25.5	26.9	25.9	27.0	25.9
6	25.0	23.3	25.3	23.6	26.5	24.7	27.1	25.8	26.4	25.9	26.5	25.7
7	25.3	23.7	25.4	24.5	25.8	25.1	27.4	26.0	27.3	26.0	26.0	25.3
8	25.0	23.3	25.6	23.8	25.4	24.8	27.3	26.2	27.8	26.3	26.1	25.5
9	25.3	23.5	25.5	24.1	25.4	24.6	27.2	26.1	27.4	26.3	26.6	25.5
10	25.5	23.9	25.0	23.7	26.3	24.4	27.2	25.9	26.9	25.8	26.6	25.6
11	25.4	23.6	25.2	23.2	27.0	25.1	27.6	26.3	27.0	26.1	27.0	25.6
12	25.6	24.0	24.8	23.6	26.9	25.1	27.5	26.6	26.9	26.2	27.3	25.9
13	25.0	22.9	25.1	22.8	26.1	24.3	27.4	26.1	27.9	26.1	27.3	26.2
14	24.7	22.7	24.8	23.4	25.8	24.4	26.6	25.8	28.3	26.8	26.9	25.9
15	24.7	23.4	24.8	23.5	26.1	24.8	26.9	25.8	28.3	26.8	26.6	25.7
16	24.8	23.9	25.1	23.3	26.1	25.3	26.7	25.4	28.4	26.7	26.7	25.4
17	23.9	21.5	25.1	23.1	25.8	25.2	26.7	25.7	27.8	26.5	26.4	25.0
18	22.4	20.8	25.3	23.6	25.4	25.0	27.2	25.7	27.5	26.0	26.0	25.3
19	22.1	20.0	25.8	24.2	25.9	24.7	27.4	25.8	27.0	25.4	25.5	25.0
20	22.2	19.7	25.3	24.0	25.3	24.7	28.2	26.4	26.4	25.2	25.3	24.9
21	22.8	20.4	24.6	23.5	25.0	24.4	28.3	26.6	26.9	25.7	25.3	24.8
22	23.4	21.3	24.7	23.5	25.6	24.5	28.2	26.7	26.1	25.6	25.2	24.6
23	24.3	22.2	24.3	23.5	26.1	25.0	27.6	26.5	26.2	25.6	24.6	24.0
24	24.8	22.7	24.5	23.1	26.3	25.3	27.7	26.7	26.5	25.7	24.4	23.7
25	25.4	23.2	25.8	23.4	26.0	25.3	27.7	26.4	26.6	25.8	24.9	23.9
26	25.6	24.1	26.1	24.3	25.9	25.1	27.3	26.5	27.3	26.4	25.0	24.5
27	25.9	24.6	26.4	24.7	26.6	25.3	27.5	26.4	27.9	27.0	25.5	24.8
28	26.1	25.0	26.6	24.9	26.1	25.6	28.2	26.4	28.0	27.3	25.6	25.1
29	25.8	24.3	26.7	24.9	25.7	25.2	28.3	26.7	27.7	27.0	26.2	25.2
30	25.3	23.4	26.3	24.8	25.6	24.8	28.1	26.9	27.9	27.0	26.3	25.5
31	---	---	25.9	24.6	---	---	28.2	26.9	28.1	27.2	---	---
MONTH	26.5	19.7	26.7	21.1	27.0	24.3	28.3	24.8	28.6	25.2	27.6	23.7

02301718 ALAFIA RIVER AT RIVERVIEW, FL

LOCATION.--Lat 27°52'03", long 82°19'12", in SE$^1/_4$ sec.17, T.30 S., R.20 E., Hillsborough County, Hydrologic Unit 03100204, on right bank on wooden private dock about 2300 feet upstream from Highway 301 bridge.

DRAINAGE AREA.--414 mi^2.

PERIOD OF RECORD.--May to September 1999 (gage-heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 3.57 ft, Sept. 6; minimum, 1.40 ft below NGVD, May 17, 18.

GAGE HEIGHT, FEET, PERIOD MAY TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	2.21	-1.05	2.45	-.65	2.37	-.20	2.11	-.10
2	---	---	---	---	2.33	-.91	2.22	-.78	1.90	-.17	2.01	-.31
3	---	---	---	---	2.21	-.97	2.30	-.83	2.25	.04	2.10	-.27
4	---	---	---	---	1.97	-1.03	2.42	-.63	2.00	-.06	2.57	-.09
5	---	---	---	---	1.75	-.86	1.74	-.37	2.49	.11	2.78	-.07
6	---	---	---	---	1.23	-.90	2.08	-.35	3.07	.27	3.57	-.03
7	---	---	---	---	1.10	-1.01	2.38	.04	2.63	-.49	3.00	-.31
8	---	---	---	---	1.39	-.65	2.48	.05	2.63	-.77	3.20	-.01
9	---	---	---	---	1.79	-.55	2.54	-.51	3.02	-.58	2.91	.01
10	---	---	---	---	2.35	-.49	2.74	-.76	3.10	-.44	2.80	.13
11	---	---	---	---	2.24	-1.00	2.90	-.78	3.10	-.41	2.53	.12
12	---	---	---	---	2.54	-1.08	2.96	-.94	2.48	-.61	2.17	-.07
13	---	---	---	---	2.48	-1.03	3.00	-.93	2.38	-.40	1.73	-.21
14	---	---	3.13	-.33	2.58	-1.18	2.94	-.80	2.59	-.08	1.24	-.75
15	---	---	2.44	-1.12	2.70	-1.12	2.70	-.56	2.55	.15	1.66	.07
16	---	---	2.36	-1.37	3.06	-1.04	2.29	-.59	1.98	.07	2.51	.36
17	---	---	2.45	-1.40	2.92	-.80	2.08	-.60	1.91	-.20	2.21	.04
18	---	---	2.63	-1.40	1.97	-.58	2.07	-.45	2.13	.04	2.56	.11
19	---	---	2.84	-1.15	1.84	-.74	1.62	-.26	2.25	.09	3.06	.64
20	---	---	2.34	-.79	1.27	-.56	1.83	-.02	2.12	.42	2.99	1.56
21	---	---	2.01	-.72	1.56	-.27	1.63	-.21	2.16	-.22	3.15	.04
22	---	---	1.58	-.86	1.46	-.53	1.89	-.29	2.34	-.12	2.50	-.03
23	---	---	1.58	-.68	1.66	-.31	2.16	-.27	2.68	-.20	2.50	.00
24	---	---	2.05	-.15	2.10	-.41	2.56	-.20	2.52	-.27	2.90	.05
25	---	---	1.98	-.15	2.26	-.59	2.63	-.42	2.77	-.41	3.12	.16
26	---	---	2.03	-.30	2.28	-.58	2.46	-.67	2.55	-.43	2.90	.14
27	---	---	2.05	-.66	2.67	-.59	2.67	-.73	2.60	-.45	2.65	.01
28	---	---	1.93	-.86	2.48	-.71	2.71	-.54	2.57	-.19	2.57	-.14
29	---	---	1.93	-1.16	2.70	-.67	2.83	-.42	2.69	.07	2.66	.12
30	---	---	2.01	-1.34	2.78	-.67	2.52	-.48	2.61	.15	2.65	-.04
31	---	---	2.29	-.91	---	---	2.72	-.26	2.01	-.41	---	---
MONTH	---	---	---	---	3.06	-1.18	3.00	-.94	3.10	-.77	3.57	-.75

02301718 ALAFIA RIVER AT RIVERVIEW, FL--Continued

PERIOD OF RECORD.--May to September 1999.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature probes located at a gage height of approximately -1.50 ft for the top probe and a gage height of approximately -4.85 ft for the bottom probe.

REMARKS.--Interruptions in record were due to malfunctions of the instruments or silt and debris buildup in probe.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 28,200 microsiemens, June 1; bottom probe maximum, 34,900 microsiemens, Sept. 21; top probe minimum, 239 microsiemens, Aug. 22; bottom probe minimum, 242 microsiemens, Aug. 22.

TEMPERATURE.--Top probe maximum, 31.6°C, Aug. 2; bottom probe maximum, 31.6°C, Aug. 2; top probe minimum, 24.0°C, Sept. 25; bottom probe minimum, 24.1°C, Sept. 25.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(AT GAGE-HEIGHT OF APPROXIMATELY -1.50 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	28200	3690	4230	439	3310	524	5870	405
2	---	---	---	---	27900	7000	1630	412	2290	684	9800	961
3	---	---	---	---	26700	8980	1140	411	6040	728	8660	619
4	---	---	---	---	21400	8580	2230	535	7950	631	5160	577
5	---	---	---	---	19800	9000	2950	566	17600	837	6920	946
6	---	---	---	---	17200	6550	12200	585	17700	1660	11000	536
7	---	---	---	---	17100	4480	13700	1160	16100	1820	4810	423
8	---	---	---	---	24900	4130	14700	1780	7290	875	1200	402
9	---	---	---	---	27400	5520	14500	677	6440	437	1330	382
10	---	---	---	---	24900	6110	7320	535	1170	374	1330	392
11	---	---	---	---	18400	5130	15200	639	1470	411	2310	445
12	---	---	---	---	16500	2280	17300	811	653	425	4770	543
13	---	---	---	---	9200	755	17500	895	1140	434	4240	779
14	---	---	14500	3170	9910	428	15000	453	6450	599	4510	896
15	---	---	9160	835	8650	366	740	382	5210	425	2450	433
16	---	---	4860	636	12300	385	2060	346	1500	419	2330	507
17	---	---	17300	713	16500	525	2180	347	2580	557	5720	488
18	---	---	22000	1200	13100	842	6440	476	8650	1110	20400	1990
19	---	---	20300	4250	6900	1160	12100	630	10100	1370	26900	4360
20	---	---	20800	5010	4350	754	12800	1880	7080	643	16300	3280
21	---	---	25300	5010	2830	578	11500	2440	1840	420	16600	651
22	---	---	21800	5580	4840	620	13600	2200	495	239	692	292
23	---	---	9860	4890	7990	1070	16300	2870	382	254	343	289
24	---	---	11500	1970	14700	1770	10500	1970	340	270	622	317
25	---	---	4150	1630	13600	1260	4250	961	333	288	2320	344
26	---	---	3950	1330	4370	501	1500	564	344	303	7260	411
27	---	---	3800	1100	2300	439	2620	612	399	337	8950	939
28	---	---	6480	1120	1580	494	4360	685	398	363	4240	376
29	---	---	9320	1670	6440	525	3650	627	444	334	534	245
30	---	---	13700	2040	2830	434	2040	554	373	328	366	311
31	---	---	16000	3320	---	---	1500	520	423	356	---	---
MONTH	---	---	---	---	28200	366	17500	346	17700	239	26900	245

02301718 ALAFIA RIVER AT RIVERVIEW, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(AT GAGE HEIGHT OF APPROXIMATELY -4.85 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	29900	9450	16100	447	7420	494	20100	389
2	---	---	---	---	30600	11700	5210	411	8580	759	18300	1750
3	---	---	---	---	31200	20500	10600	411	14200	812	19900	1410
4	---	---	---	---	28600	16100	15800	562	15800	666	24300	1240
5	---	---	---	---	24300	13500	12800	593	27100	3810	24000	1230
6	---	---	---	---	24700	9810	22000	596	30800	6020	20000	560
7	---	---	---	---	28100	9820	26400	3830	30400	2700	11900	445
8	---	---	---	---	32200	19200	24100	3610	14100	935	6650	419
9	---	---	---	---	33800	13400	22500	737	10200	463	3700	400
10	---	---	---	---	28700	12500	8520	560	10900	388	4390	403
11	---	---	---	---	21700	6060	22000	946	3130	419	9260	520
12	---	---	---	---	17400	3000	19300	976	828	434	16200	752
13	---	---	---	---	16600	1070	17300	1180	4410	446	16000	1090
14	---	---	18200	3670	12800	653	17400	561	15300	646	16700	1520
15	---	---	12300	874	10300	503	1350	387	17000	453	11200	639
16	---	---	11300	674	14700	484	4280	347	5240	436	12600	710
17	---	---	25200	777	21600	618	9000	368	15700	596	23900	1980
18	---	---	25900	2200	22100	1820	13100	699	21900	1960	30700	17700
19	---	---	25000	6060	19200	1920	19300	1090	29300	5930	33300	15600
20	---	---	28700	9250	9970	1690	23300	7920	30300	1820	32300	17000
21	---	---	30500	13200	16200	754	23400	8700	18800	452	34900	1140
22	---	---	29900	11400	15300	1940	22200	6780	679	242	6860	379
23	---	---	22500	8240	22100	4880	23100	4850	309	262	397	327
24	---	---	24500	4730	30100	4640	20900	2080	328	273	1430	343
25	---	---	19500	2330	32100	1690	12100	928	337	293	6200	373
26	---	---	12500	2030	17400	558	2000	542	346	309	16700	565
27	---	---	10900	1270	13200	469	10600	590	367	343	21600	1870
28	---	---	10900	1290	4460	512	11500	658	407	365	20900	493
29	---	---	16500	1890	15800	560	9810	588	412	351	3360	294
30	---	---	21800	2580	9650	443	2800	518	364	338	394	338
31	---	---	21100	8380	---	---	3210	493	409	343	---	---
MONTH	---	---	---	---	33800	443	26400	347	30800	242	34900	294

02301718 ALAFIA RIVER AT RIVERVIEW, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(AT GAGE-HEIGHT OF APPROXIMATELY -1.50 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	28.7	26.1	26.5	25.1	31.2	28.3	29.4	27.5
2	---	---	---	---	28.0	25.9	26.9	25.2	31.6	28.5	29.5	27.4
3	---	---	---	---	28.4	25.9	27.3	25.2	30.2	28.2	29.9	26.7
4	---	---	---	---	28.9	25.9	27.9	25.4	29.8	27.7	28.8	26.7
5	---	---	---	---	29.2	26.2	28.5	25.7	30.7	27.2	28.8	27.1
6	---	---	---	---	29.4	26.1	28.5	25.9	30.3	26.9	28.9	26.5
7	---	---	---	---	28.3	26.3	29.0	26.5	29.2	26.4	27.4	26.0
8	---	---	---	---	28.2	26.1	28.6	26.6	28.9	26.9	26.5	25.6
9	---	---	---	---	28.3	25.7	28.9	26.7	29.1	26.9	27.7	25.5
10	---	---	---	---	28.4	25.3	28.1	26.2	27.7	26.3	28.3	26.0
11	---	---	---	---	29.0	26.1	28.9	26.6	28.0	26.4	28.7	26.3
12	---	---	---	---	28.9	26.4	29.1	26.8	27.8	26.6	29.2	26.5
13	---	---	---	---	28.4	25.9	28.9	26.9	28.8	26.5	29.8	26.9
14	---	---	27.7	24.8	28.0	25.0	28.4	26.3	30.0	27.0	29.8	26.5
15	---	---	27.8	24.8	27.5	25.4	27.5	25.9	29.3	27.3	27.6	26.1
16	---	---	27.1	24.4	27.3	25.4	28.2	26.3	29.9	27.5	28.7	26.4
17	---	---	26.3	24.3	27.3	25.6	28.7	26.2	30.0	27.8	29.0	26.3
18	---	---	26.6	24.2	26.7	25.3	29.1	26.3	30.1	27.5	28.7	26.8
19	---	---	28.1	24.7	27.2	25.0	29.6	26.7	30.0	26.7	28.4	26.3
20	---	---	27.5	24.5	26.7	25.1	30.0	27.2	27.5	26.2	27.2	25.5
21	---	---	27.5	24.6	26.2	25.1	30.3	27.3	28.1	26.2	26.6	25.1
22	---	---	27.0	24.8	26.7	24.6	30.1	27.9	26.6	25.9	25.9	24.7
23	---	---	26.2	24.3	27.3	24.9	30.4	27.8	26.7	25.7	25.4	24.4
24	---	---	26.3	24.1	27.6	25.4	29.5	27.6	27.3	25.8	25.5	24.2
25	---	---	27.4	24.2	27.4	25.8	29.1	27.0	27.5	26.3	25.4	24.0
26	---	---	28.0	25.0	26.7	25.4	28.9	27.0	28.2	26.5	25.5	24.5
27	---	---	28.4	25.4	27.4	25.4	29.0	26.9	28.8	27.1	26.3	24.9
28	---	---	29.2	26.1	27.6	25.8	29.6	27.0	29.6	27.4	27.7	25.2
29	---	---	29.6	26.4	26.9	25.5	30.3	27.6	29.5	27.6	27.4	25.2
30	---	---	29.1	26.2	26.3	25.2	29.8	28.0	29.6	27.4	28.0	25.7
31	---	---	28.6	26.1	---	---	30.5	28.1	29.8	27.4	---	---
MONTH	---	---	---	---	29.4	24.6	30.5	25.1	31.6	25.7	29.9	24.0

02301718 ALAFIA RIVER AT RIVERVIEW, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(AT GAGE HEIGHT APPROXIMATELY -4.85 FT)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	28.3	27.2	26.8	25.0	31.1	28.4	29.8	27.8
2	---	---	---	---	28.2	27.0	26.5	25.2	31.6	28.6	29.5	27.9
3	---	---	---	---	28.1	27.5	27.1	25.2	31.3	28.3	29.8	27.4
4	---	---	---	---	28.4	27.0	27.5	25.6	30.9	28.0	30.4	27.9
5	---	---	---	---	29.0	27.3	28.3	25.8	31.3	28.4	30.4	27.8
6	---	---	---	---	29.2	26.4	28.8	26.0	31.3	27.7	30.2	26.5
7	---	---	---	---	28.7	27.4	29.1	27.3	30.7	27.9	28.4	26.0
8	---	---	---	---	28.6	28.0	29.4	28.0	29.6	28.0	27.0	25.6
9	---	---	---	---	28.5	27.0	29.5	26.7	29.5	26.9	27.4	25.6
10	---	---	---	---	28.4	27.4	28.0	26.2	28.3	26.3	27.6	26.0
11	---	---	---	---	28.5	27.2	29.6	27.1	27.9	26.4	28.0	26.3
12	---	---	---	---	28.9	26.8	29.4	27.2	27.4	26.6	29.1	26.8
13	---	---	---	---	28.8	26.0	29.1	26.9	28.3	26.5	29.0	27.2
14	---	---	27.2	25.3	28.1	25.1	28.9	26.3	29.2	27.2	29.1	27.0
15	---	---	27.3	24.9	27.4	25.5	27.3	26.0	29.5	27.5	28.4	26.3
16	---	---	26.7	24.4	27.5	25.5	27.6	26.3	29.4	27.5	28.4	26.8
17	---	---	26.7	24.6	27.8	25.6	28.2	26.3	30.1	28.0	28.8	27.4
18	---	---	26.1	24.7	27.7	25.6	29.0	26.5	30.3	27.8	29.0	28.0
19	---	---	26.9	25.0	27.4	25.1	29.6	26.8	30.6	28.2	28.7	27.5
20	---	---	27.5	25.5	27.1	25.4	30.3	28.2	30.3	26.6	28.5	26.9
21	---	---	27.7	26.2	27.3	25.2	30.4	29.1	28.3	26.4	28.2	25.3
22	---	---	27.4	25.9	27.1	24.9	30.9	29.1	26.7	25.9	25.9	24.8
23	---	---	26.9	25.0	27.7	25.5	31.1	28.8	26.6	25.8	25.3	24.4
24	---	---	27.1	25.3	28.3	26.9	30.9	27.9	27.2	25.9	25.1	24.2
25	---	---	26.9	25.2	28.6	26.2	29.5	28.0	27.5	26.3	25.2	24.1
26	---	---	27.0	25.3	27.5	25.4	28.4	27.1	28.1	26.5	26.0	24.6
27	---	---	27.8	25.6	27.1	25.4	29.2	26.9	28.7	27.1	26.4	25.2
28	---	---	28.1	26.4	26.9	25.9	29.2	27.4	29.2	27.4	26.7	25.4
29	---	---	28.7	26.5	27.4	25.5	29.3	27.9	29.3	27.6	26.7	25.2
30	---	---	28.7	26.4	26.4	25.2	29.1	28.0	29.0	27.4	27.1	25.8
31	---	---	28.2	27.3	---	---	29.9	28.1	29.4	27.4	---	---
MONTH	---	---	---	---	29.2	24.9	31.1	25.0	31.6	25.8	30.4	24.1

02301721 ALAFIA RIVER AT GIBSONTON, FL

LOCATION.--Lat 27°51'34", long 82°23'04", in NW$^1/_4$ sec.23, T.30 S., R.19 E., Hillsborough County, Hydrologic Unit 03100206, on Williams Park boat ramp dock on right bank, 200 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^2.
PERIOD OF RECORD.--October 1998 to September 1999 (gage-heights only).
GAGE.--Water-stage recorder. Datum of gage is 10.00 ft below National Geodetic Vertical Datum of 1929.
EXTREMES FOR CURRENT YEAR.--Maximum gage height, 13.75 ft, Jan. 3; minimum, 7.76 ft NGVD, Feb. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	12.73	10.07	11.89	9.77	11.50	8.69	11.47	8.25	12.07	9.14	12.10	9.21
2	12.19	9.79	12.09	9.74	11.57	8.28	11.98	8.91	12.57	9.76	12.23	9.75
3	12.29	9.57	12.34	9.64	11.74	8.48	13.75	9.13	12.14	9.52	12.30	10.14
4	12.24	9.61	12.53	9.46	11.92	8.62	11.85	8.41	11.77	9.53	11.25	9.10
5	12.22	9.62	11.20	8.36	11.82	8.49	10.65	8.02	11.41	9.42	11.39	9.39
6	11.99	9.32	11.00	8.54	11.83	8.63	10.53	8.53	11.64	9.52	11.68	9.75
7	12.11	9.38	11.33	8.34	11.89	9.01	10.85	8.80	11.89	9.85	11.47	8.99
8	12.11	9.29	11.26	8.65	11.72	9.13	11.37	9.66	11.80	10.09	11.02	8.84
9	12.18	9.31	11.85	9.29	11.02	8.96	12.05	10.17	11.80	9.87	12.40	9.19
10	11.98	9.08	11.60	9.66	10.80	8.90	12.10	9.33	11.75	9.36	11.52	10.07
11	11.67	9.17	11.48	9.61	10.82	9.14	10.31	8.34	11.48	9.01	11.29	9.57
12	11.52	9.11	11.18	9.45	11.50	9.39	10.89	8.78	11.76	9.17	11.46	9.15
13	11.48	9.36	11.40	9.60	11.51	9.78	11.55	9.31	12.01	8.28	12.25	8.97
14	11.80	9.63	11.67	9.91	11.40	9.50	11.76	8.99	10.43	7.76	12.85	10.04
15	11.61	9.49	11.70	9.67	11.06	8.76	12.24	9.10	11.10	8.35	12.31	9.72
16	11.22	9.27	11.92	9.48	11.04	8.63	11.77	8.70	11.81	9.07	11.31	8.45
17	11.45	9.48	11.97	9.36	11.36	8.96	12.03	8.96	12.41	9.54	11.49	9.14
18	11.70	9.57	11.71	9.09	11.34	8.38	12.06	9.13	12.73	10.05	11.72	9.30
19	11.75	9.69	11.59	8.83	11.86	9.06	11.98	8.87	12.21	10.08	11.83	9.30
20	11.63	9.41	11.87	8.90	11.98	8.74	11.90	9.01	11.54	9.61	11.97	9.32
21	11.56	9.39	11.81	8.96	12.07	8.93	11.71	9.21	11.50	9.64	12.20	9.50
22	11.51	8.93	11.02	8.55	11.85	9.23	11.98	9.72	11.29	9.19	11.77	9.22
23	10.33	10.33	11.45	8.94	11.39	8.84	12.01	10.17	11.71	8.93	11.88	9.06
24	10.85	8.71	11.35	8.82	11.66	9.27	12.01	9.96	11.74	9.15	11.64	9.04
25	11.07	8.90	11.45	9.10	11.41	9.29	11.00	8.84	11.57	9.03	11.60	9.11
26	11.36	9.05	11.22	8.94	11.23	8.95	11.07	8.77	11.80	8.88	11.20	9.10
27	11.42	9.12	10.81	8.92	11.00	9.23	11.29	8.71	12.04	9.08	10.96	8.75
28	11.72	9.64	10.95	9.20	11.19	9.13	11.91	8.91	12.27	9.55	11.31	8.44
29	11.85	9.76	11.35	9.20	11.85	9.54	12.16	8.90	---	---	11.36	8.95
30	11.89	9.81	11.50	9.17	12.50	9.19	12.26	8.98	---	---	11.44	9.23
31	11.87	9.69	---	---	11.60	8.58	12.21	8.99	---	---	11.82	9.52
MONTH	12.73	8.71	12.53	8.34	12.50	8.28	13.75	8.02	12.73	7.76	12.85	8.44

02301721 ALAFIA RIVER AT GIBSONTON, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.98	9.70	11.61	8.96	12.03	9.00	12.14	9.13	12.10	9.73	11.85	9.81
2	11.65	9.28	11.82	9.11	12.14	9.08	11.92	8.97	11.67	9.80	11.78	9.57
3	11.65	9.15	12.16	9.27	11.96	8.93	11.93	8.97	11.92	9.91	11.86	9.62
4	11.84	9.32	12.64	9.47	11.70	8.91	11.97	9.22	11.73	9.85	12.36	9.79
5	11.84	9.24	12.78	9.80	11.53	9.15	11.40	9.50	12.23	9.98	12.56	9.83
6	11.77	9.19	12.65	9.79	11.10	9.07	11.71	9.48	12.75	10.22	13.17	9.90
7	11.68	9.16	12.30	9.92	10.94	8.96	11.94	9.91	12.38	9.40	12.66	9.65
8	11.78	9.32	11.78	9.75	11.21	9.31	12.19	9.87	12.36	9.14	12.87	9.93
9	11.83	9.48	11.61	9.71	11.58	9.48	12.21	9.33	12.74	9.31	12.67	9.94
10	11.56	9.79	11.64	9.61	12.05	9.46	12.41	9.12	12.82	9.45	12.55	10.07
11	11.73	9.45	11.90	9.70	11.98	8.97	12.59	9.12	12.82	9.51	12.26	10.06
12	11.51	9.57	11.99	9.85	12.29	8.89	12.58	8.97	12.25	9.33	11.97	9.86
13	11.48	8.95	12.28	9.52	12.31	8.92	12.64	8.97	12.14	9.52	11.47	9.71
14	11.99	9.51	12.84	9.70	12.42	8.72	12.64	9.01	12.27	9.96	10.98	9.23
15	13.24	10.49	12.23	8.86	12.50	8.87	12.36	9.14	12.23	10.06	11.39	10.02
16	12.28	8.95	12.21	8.63	12.74	9.12	12.00	9.25	11.73	10.01	12.32	10.21
17	11.40	8.56	12.27	8.63	12.67	9.20	11.79	9.26	11.63	9.69	12.00	9.95
18	11.22	8.48	12.41	8.74	11.78	9.31	11.77	9.45	11.89	9.99	12.27	10.06
19	11.57	8.50	12.59	8.87	11.64	9.22	11.29	9.60	11.95	9.94	12.80	10.55
20	11.88	8.50	12.09	9.18	11.10	9.43	11.51	9.86	11.90	10.27	12.75	11.47
21	11.93	8.78	11.70	9.20	11.37	9.67	11.36	9.59	11.92	9.70	12.85	9.92
22	11.91	9.09	11.31	9.16	11.27	9.48	11.55	9.60	12.04	9.74	12.27	9.86
23	11.30	9.15	11.39	9.36	11.50	9.62	11.83	9.57	12.35	9.60	12.24	9.86
24	11.25	9.07	11.74	9.78	11.83	9.39	12.16	9.64	12.31	9.53	12.64	9.99
25	11.65	9.38	11.77	9.79	11.91	9.21	12.28	9.46	12.53	9.40	12.82	10.14
26	12.02	9.66	11.77	9.65	11.94	9.19	12.21	9.16	12.30	9.41	12.63	10.10
27	12.13	10.11	11.82	9.29	12.31	9.21	12.33	9.16	12.34	9.42	12.38	9.98
28	12.30	9.74	11.73	9.14	12.15	9.09	12.42	9.35	12.32	9.70	12.27	9.79
29	12.17	9.63	11.77	8.84	12.31	9.09	12.55	9.47	12.37	9.96	12.43	10.01
30	12.08	9.12	11.81	8.69	12.43	9.11	12.25	9.44	12.33	10.07	12.41	9.84
31	---	---	12.12	9.07	---	---	12.44	9.63	11.78	9.53	---	---
MONTH	13.24	8.48	12.84	8.63	12.74	8.72	12.64	8.97	12.82	9.14	13.17	9.23

02301721 ALAFIA RIVER AT GIBSONTON, FL--Continued

PERIOD OF RECORD.--May to September 1999.

INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature probes located near the surface for the top probe and near bottom for the bottom probe.

REMARKS.--Interruptions in record were due to malfunctions of the instruments.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 46,600 microsiemens, May 30; bottom probe maximum, 48,800 microsiemens, June 8, 9; top probe minimum, 3,520 microsiemens, Aug. 23; bottom probe minimum, 18,200 microsiemens, Aug. 23.

TEMPERATURE.--Top probe maximum, 33.4°C, Aug. 2; bottom probe maximum, 32.8°C, Aug. 2; top probe minimum, 24.8°C, May 17; bottom probe minimum, 26.2°C, May 10, 11.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	46100	30000	46100	15000	40100	13800	39400	16200
2	---	---	---	---	46500	30200	45400	14900	39800	16500	37900	14400
3	---	---	---	---	44400	31700	38400	11300	40200	16700	37500	11700
4	---	---	---	---	45100	31500	44100	15700	42000	15200	39400	12900
5	---	---	---	---	45000	29800	43000	18100	42500	15200	40000	14200
6	---	---	---	---	44900	29500	43200	17100	43000	14400	38800	15300
7	---	---	---	---	46000	26800	42500	19100	41800	13200	37500	11900
8	---	---	---	---	45800	27300	43600	19200	40200	6790	35400	7910
9	---	---	---	---	46500	26500	43000	19100	40600	10300	38600	12800
10	---	---	43400	25400	45900	29800	32400	13000	41000	8180	35800	11600
11	---	---	44100	26600	41900	22500	41800	18400	38400	8810	37400	13500
12	---	---	44200	31600	41400	21200	41700	16000	33700	6230	38500	13800
13	---	---	43000	31200	39500	14100	40900	17300	41500	10300	38500	17900
14	---	---	42500	30000	39800	11600	41200	16000	40600	11900	37700	14800
15	---	---	43300	20500	37000	10700	41400	13300	38300	14900	37500	20300
16	---	---	45100	19000	36600	11700	41400	13300	37600	10200	36000	12800
17	---	---	45200	25700	37600	12700	41600	12000	37000	10200	37200	8640
18	---	---	44300	23400	38100	13800	39900	11100	37000	11800	37100	13600
19	---	---	44900	22100	40000	14400	40200	13200	36800	12800	37000	17600
20	---	---	44400	26800	39800	13100	40500	13900	38000	9790	36100	16800
21	---	---	44100	25100	40500	13000	42300	16100	36500	7020	36100	11300
22	---	---	44800	24100	40600	10400	40200	14500	35800	5110	34600	5220
23	---	---	44000	26900	41400	13300	41200	13300	35000	3520	33600	6030
24	---	---	44600	24900	44100	16600	41500	15900	35400	4080	33400	7140
25	---	---	41200	20300	44800	15300	41600	15000	34900	3800	32800	8610
26	---	---	43000	19000	44600	12800	40200	8840	34800	4000	32000	10900
27	---	---	41900	18000	40800	10900	40700	8200	36900	6050	31500	10500
28	---	---	44000	19300	45500	12400	39200	13100	30100	7760	30200	10100
29	---	---	45200	25500	40300	11700	35400	13700	36800	5320	29400	6860
30	---	---	46600	24300	45600	14600	33800	10900	36500	5320	28300	5040
31	---	---	46200	28200	---	---	39200	10900	39200	7070	---	---
MONTH	---	---	---	---	46500	10400	46100	8200	43000	3520	40000	5040

02301721 ALAFIA RIVER AT GIBSONTON, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	47200	38700	44400	31400	40100	32700	38000	31100
2	---	---	---	---	47500	39100	44500	31700	40000	33200	37200	30100
3	---	---	---	---	47000	40000	41700	30800	39300	33700	40700	32600
4	---	---	---	---	46500	40300	44600	34600	43300	37600	40400	29100
5	---	---	---	---	47400	39400	44500	33200	43500	38500	40600	30600
6	---	---	---	---	47400	39400	44800	40600	44000	38100	38900	23300
7	---	---	---	---	48000	41800	44800	38400	42100	27700	40100	22000
8	---	---	---	---	48800	43300	44800	36800	41700	26200	39000	26400
9	---	---	---	---	48800	39900	43800	20700	41400	24500	38900	29700
10	---	---	43800	36400	47900	37800	41000	31900	40900	25900	38700	30900
11	---	---	44300	38000	45300	32300	42200	30500	39500	21100	38200	32200
12	---	---	43800	35700	45800	33400	42000	28600	40200	24400	37700	33500
13	---	---	43000	33200	46200	29500	41300	28700	40600	28800	38000	32800
14	---	---	42800	31100	46100	29900	40800	24700	40500	33500	36800	31500
15	---	---	43300	29000	45700	28900	40700	24600	39900	28600	36800	32600
16	---	---	44300	30600	44800	30400	43200	29000	38900	31400	36300	32800
17	---	---	44700	35000	45400	34500	43600	36400	38600	30600	36500	33900
18	---	---	44200	34900	44200	35800	43100	35800	38900	36000	36500	34000
19	---	---	44900	36300	45400	35200	42900	39100	38800	36000	36900	33100
20	---	---	44700	38500	45300	35900	42800	40400	39000	35400	37600	34700
21	---	---	45100	37000	45300	40600	42800	39600	38600	28500	38000	30000
22	---	---	45300	39600	45500	40500	41400	35200	38700	28300	36300	26000
23	---	---	45300	38200	46100	40000	42700	36500	38300	18200	36300	32000
24	---	---	45300	39000	45300	38800	42300	33400	38100	25800	36400	30800
25	---	---	44600	36800	45100	34300	41200	28700	38200	21800	36000	30000
26	---	---	44300	37200	45100	33800	41000	32600	37200	21900	36700	31500
27	---	---	45000	32400	42200	26100	41400	28400	36700	26200	37400	32800
28	---	---	45400	32400	45200	33100	41400	35900	39000	29800	37200	29300
29	---	---	45800	35700	41600	31800	40600	34200	39000	19900	36300	30300
30	---	---	46500	32500	44200	30300	39800	33100	37600	24900	39900	28600
31	---	---	46200	38900	---	---	39900	32400	38000	31100	---	---
MONTH	---	---	---	---	48800	26100	44800	20700	44000	18200	40700	22000

02301721 ALAFIA RIVER AT GIBSONTON, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	29.8	27.2	29.3	26.9	33.3	30.6	31.2	28.5
2	---	---	---	---	29.2	27.7	29.5	26.8	33.4	31.0	32.4	28.9
3	---	---	---	---	30.6	27.6	29.2	27.0	32.7	30.8	31.8	30.0
4	---	---	---	---	30.4	28.1	29.4	27.1	32.4	28.4	31.7	30.3
5	---	---	---	---	30.2	28.1	30.1	28.2	31.7	29.9	31.5	30.1
6	---	---	---	---	29.5	27.9	30.8	28.8	31.6	29.8	31.2	28.7
7	---	---	---	---	29.1	27.7	31.9	29.1	31.4	29.2	30.2	27.9
8	---	---	---	---	28.2	27.3	31.0	29.1	32.3	30.1	29.4	27.4
9	---	---	---	---	29.7	26.7	31.0	29.1	31.8	28.8	31.2	27.1
10	---	---	28.9	26.3	30.2	26.7	30.7	29.4	31.2	28.9	31.0	27.9
11	---	---	29.4	25.9	31.2	28.4	31.2	29.5	30.9	28.7	31.9	28.2
12	---	---	27.8	26.3	31.7	28.5	30.9	29.4	30.7	28.4	31.2	28.2
13	---	---	28.4	25.8	30.7	28.3	31.0	28.9	32.6	28.2	30.5	28.2
14	---	---	28.3	26.6	31.1	28.2	31.3	28.7	33.0	29.2	29.7	26.8
15	---	---	29.4	26.5	31.6	27.9	30.9	28.1	32.1	29.5	28.9	27.2
16	---	---	29.2	25.6	30.7	27.6	31.3	28.0	32.8	29.0	30.6	27.3
17	---	---	28.9	24.8	29.8	27.4	30.8	28.1	31.8	29.5	30.9	28.3
18	---	---	29.1	25.7	29.3	26.9	32.6	28.3	32.8	29.1	29.1	28.3
19	---	---	28.9	26.6	29.2	26.6	31.7	29.2	32.3	29.7	28.5	27.2
20	---	---	30.0	27.4	29.0	27.5	32.6	30.2	30.7	29.8	28.4	27.0
21	---	---	28.7	27.0	28.8	27.3	33.1	30.3	31.4	28.9	28.3	26.4
22	---	---	28.9	26.2	29.9	27.1	33.1	30.6	31.4	28.1	28.1	26.1
23	---	---	29.1	26.5	30.1	27.8	32.1	30.2	30.2	26.8	28.0	24.9
24	---	---	28.4	26.9	30.4	25.3	32.1	30.5	29.9	26.6	27.9	25.3
25	---	---	29.6	26.7	29.8	28.4	32.4	30.1	30.8	27.5	28.0	25.4
26	---	---	30.3	27.5	29.3	27.3	32.3	29.6	31.1	27.6	27.5	25.6
27	---	---	30.9	28.0	29.8	27.9	32.6	29.5	31.5	28.1	28.2	25.8
28	---	---	31.2	28.0	30.0	27.8	33.0	30.2	32.3	28.4	29.1	26.1
29	---	---	31.8	27.8	29.5	27.4	32.4	30.2	32.0	28.7	29.5	26.4
30	---	---	30.3	27.4	29.6	26.9	32.6	30.2	32.9	29.3	31.1	26.9
31	---	---	29.5	27.1	---	---	33.2	30.3	31.9	28.9	---	---
MONTH	---	---	---	---	31.7	25.3	33.2	26.8	33.4	26.6	32.4	24.9

02301721 ALAFIA RIVER AT GIBSONTON, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	29.3	28.5	29.3	28.4	32.6	31.8	31.0	30.5
2	---	---	---	---	29.0	28.2	29.2	28.5	32.8	31.9	30.8	30.5
3	---	---	---	---	29.9	28.1	29.1	28.7	32.4	31.9	31.0	29.7
4	---	---	---	---	29.8	28.6	30.4	28.7	32.1	30.1	31.0	30.6
5	---	---	---	---	29.5	28.4	29.2	28.8	31.8	31.6	31.2	30.5
6	---	---	---	---	29.2	28.4	29.4	28.8	31.6	31.0	31.4	29.6
7	---	---	---	---	29.0	28.3	29.9	29.0	31.2	30.6	30.3	28.8
8	---	---	---	---	28.5	28.1	29.9	29.0	31.7	30.6	29.7	28.9
9	---	---	---	---	28.8	28.0	30.2	29.3	31.6	30.8	30.3	29.1
10	---	---	27.5	26.2	29.6	27.8	30.0	29.5	31.1	30.3	30.5	29.4
11	---	---	27.5	26.2	31.1	28.5	30.5	29.5	31.1	30.0	30.3	29.5
12	---	---	27.7	26.3	31.1	28.7	30.5	29.6	30.9	29.9	30.3	29.6
13	---	---	28.3	26.6	30.4	28.9	30.5	29.8	31.1	30.3	30.1	29.6
14	---	---	28.3	26.8	30.3	29.4	30.7	29.7	31.3	30.4	29.9	28.8
15	---	---	29.0	27.2	30.3	29.3	30.5	29.7	31.5	30.4	29.2	27.5
16	---	---	29.1	27.4	30.1	29.4	31.1	29.9	31.5	30.6	28.1	27.5
17	---	---	28.2	27.1	29.8	29.1	30.4	30.2	31.1	30.5	28.7	28.0
18	---	---	28.7	27.0	29.4	28.7	30.6	30.2	30.7	30.4	28.6	28.2
19	---	---	28.8	27.0	29.1	28.6	30.5	30.3	30.8	30.5	28.6	28.4
20	---	---	29.6	27.3	29.1	28.8	30.8	30.3	30.7	30.4	28.5	28.3
21	---	---	28.8	27.2	28.9	28.6	31.1	30.3	30.8	30.3	28.5	27.9
22	---	---	28.2	27.2	28.9	28.6	31.3	30.6	30.7	29.9	28.2	27.6
23	---	---	28.0	27.2	29.0	28.5	31.4	30.6	30.5	28.6	28.1	27.5
24	---	---	28.3	27.4	29.1	28.5	31.9	30.7	30.3	29.2	27.6	27.3
25	---	---	29.1	27.5	29.2	28.6	32.0	31.0	30.2	29.3	27.4	27.2
26	---	---	29.7	27.9	29.0	28.7	31.8	31.3	30.2	29.3	27.3	27.2
27	---	---	30.2	28.6	29.7	28.7	32.2	31.3	30.4	29.8	27.4	27.0
28	---	---	30.5	28.9	29.7	29.0	32.4	31.3	31.0	30.1	27.6	27.1
29	---	---	30.7	29.1	29.4	28.8	32.4	31.5	31.4	30.3	27.6	27.3
30	---	---	29.9	28.8	29.4	28.5	32.2	31.5	31.3	30.6	27.8	27.4
31	---	---	29.4	28.5	---	---	32.5	31.6	31.4	30.8	---	---
MONTH	---	---	---	---	31.1	27.8	32.5	28.4	32.8	28.6	31.4	27.0

02301750 DELANEY CREEK NEAR TAMPA, FL

LOCATION.--Lat 27°55'32", long 82°21'52", in SW$^1/_4$ 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.--16.1 mi^2.
PERIOD OF RECORD.--October 1984 to current year.
GAGE.--Water-stage recorder. Datum of gage is 10.72 ft above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).
REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	2.7	3.3	2.4	6.9	1.4	.06	.56	1.4	7.9	6.2	12
2	37	2.6	3.3	2.5	6.8	1.5	.10	.12	1.2	27	4.7	14
3	28	2.6	2.9	13	7.8	1.4	.09	.06	1.4	60	3.7	12
4	22	3.4	2.7	12	6.6	1.1	.03	.05	1.6	40	30	9.4
5	19	10	2.6	8.3	5.5	.95	.04	.03	1.7	29	57	7.9
6	16	11	2.5	6.5	4.6	.90	.28	.02	1.3	19	38	8.7
7	14	9.5	2.4	5.7	4.0	.90	.27	.01	.91	13	28	13
8	12	7.8	2.4	5.1	3.7	.84	.28	.02	.75	21	21	13
9	11	6.5	2.2	4.8	3.4	.80	.42	.02	11	22	16	11
10	10	5.8	2.1	5.1	3.2	.75	.33	5.5	22	32	14	19
11	9.1	5.2	2.0	4.9	3.0	.63	.19	22	14	23	12	16
12	8.9	4.8	2.0	4.4	2.9	.61	.13	20	7.4	15	11	16
13	9.4	4.5	2.4	4.0	2.7	.62	.04	24	7.3	12	10	13
14	9.3	4.2	3.1	3.7	2.4	1.4	.07	14	8.2	13	9.0	11
15	8.6	4.0	3.1	3.4	2.3	2.4	.08	18	11	26	34	9.2
16	7.6	3.9	2.8	3.1	2.1	2.4	.12	12	53	37	35	8.5
17	6.8	3.6	2.6	2.9	2.0	1.9	1.7	7.1	59	30	30	7.9
18	6.4	3.4	2.3	2.8	1.8	.57	1.8	5.0	67	19	28	10
19	6.0	3.4	2.2	2.7	1.7	.30	1.1	3.8	47	13	22	29
20	5.7	3.1	2.2	2.6	1.6	.60	1.4	3.4	38	9.5	23	36
21	5.4	3.0	2.1	2.6	1.6	.54	1.1	3.0	29	7.8	27	30
22	5.6	3.6	2.2	2.5	1.3	.55	.67	2.8	32	6.1	27	24
23	5.4	5.8	2.1	3.6	1.2	.69	.42	2.7	33	4.3	24	18
24	5.0	5.9	2.0	38	1.1	.36	.38	2.3	26	3.4	19	14
25	4.4	5.5	1.9	26	1.1	.27	.32	2.1	20	2.8	16	12
26	4.0	5.0	1.9	18	1.0	.08	.37	2.2	19	2.7	21	13
27	3.6	4.5	1.9	12	.96	.04	.34	2.2	22	3.4	18	11
28	3.4	3.9	1.9	9.1	1.4	.02	.09	2.0	12	4.8	18	10
29	3.3	3.6	2.3	8.1	---	.02	.21	1.9	8.1	3.2	16	10
30	3.1	3.3	2.5	7.6	---	.11	1.1	1.7	6.3	6.1	15	9.4
31	2.9	---	2.5	7.1	---	.06	---	1.5	---	7.1	14	---
TOTAL	334.9	146.1	74.4	234.5	84.66	24.71	13.53	160.09	562.56	520.1	647.6	428.0
MEAN	10.8	4.87	2.40	7.56	3.02	.80	.45	5.16	18.8	16.8	20.9	14.3
MAX	42	11	3.3	38	7.8	2.4	1.8	24	67	60	57	36
MIN	2.9	2.6	1.9	2.4	.96	.02	.03	.01	.75	2.7	3.7	7.9
CFSM	.67	.30	.15	.47	.19	.05	.03	.32	1.16	1.04	1.30	.89
IN.	.77	.34	.17	.54	.20	.06	.03	.37	1.30	1.20	1.50	.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)

MEAN	7.66	3.60	4.19	5.86	6.55	8.14	3.70	2.89	8.86	14.7	16.8	23.6
MAX	21.1	16.0	38.3	23.0	45.0	38.9	15.6	11.9	31.9	35.0	39.0	83.0
(WY)	1995	1998	1998	1998	1998	1987	1987	1991	1992	1991	1995	1988
MIN	1.50	.36	.39	.18	.10	.35	.075	.043	.11	1.49	1.11	1.72
(WY)	1992	1997	1991	1997	1997	1985	1985	1995	1988	1993	1996	1987

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1985 - 1999	
ANNUAL TOTAL	6123.60		3231.15			
ANNUAL MEAN	16.8		8.85		8.88	
HIGHEST ANNUAL MEAN					21.1	1998
LOWEST ANNUAL MEAN					4.09	1989
HIGHEST DAILY MEAN	160	Feb 20	67	Jun 18	588	Sep 27 1997
LOWEST DAILY MEAN	.00	Several Days	.01	May 7	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.05	Jun 17	.03	May 3	.00	May 29 1988
INSTANTANEOUS PEAK FLOW			114	Aug 4	633	Sep 27 1997
INSTANTANEOUS PEAK STAGE			4.82	Aug 4	9.99	Sep 27 1997
ANNUAL RUNOFF (CFSM)	1.04		.55		.55	
ANNUAL RUNOFF (INCHES)	14.15		7.47		7.49	
10 PERCENT EXCEEDS	43		24		22	
50 PERCENT EXCEEDS	9.1		4.0		2.7	
90 PERCENT EXCEEDS	.65		.37		.22	

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°11'07", long 82°11'03", in NW$^1/_4$ sec.35, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, at right bank on upstream 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^2, 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.

REVISIED 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 fair. Discharge measurements made at this site are used in conjunction with those made downstream from Crystal Springs (station 02302000) to determine spring flow. Maximum daily discharge, 235 ft^3/s, estimated, Oct. 1, gage height unknown, occurred on recession following peak of Sept. 24, 1998; maximum independent peak discharge, 161 ft^3/s, June 19, gage height 53.53 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e235	e21	e20	16	19	15	13	10	9.3	20	14	12
2	e200	e20	e19	16	19	15	13	10	9.1	19	14	12
3	e180	24	19	24	18	15	13	9.8	8.8	18	14	11
4	e148	e30	e19	20	17	15	13	9.5	9.5	17	15	11
5	e98	e37	e19	18	17	14	13	9.6	9.9	17	15	10
6	69	e30	e18	18	17	15	13	9.7	9.6	17	16	10
7	e63	e25	e18	18	17	14	12	9.4	9.5	16	16	11
8	e58	e23	e18	17	17	14	12	9.8	9.5	16	14	11
9	e56	22	e18	17	16	14	11	9.8	14	16	14	11
10	e52	e22	e18	19	16	14	11	10	18	16	15	12
11	e50	e22	e18	18	16	14	11	11	13	15	15	11
12	e84	e21	e18	17	16	14	11	11	14	15	16	11
13	e118	e21	e18	17	15	14	11	10	13	16	15	11
14	e72	e21	e18	18	15	15	11	10	13	18	15	12
15	e60	e21	e17	18	15	16	12	11	12	23	14	12
16	e58	e21	e17	18	15	15	12	10	19	18	14	12
17	e52	e21	18	17	15	14	13	10	20	16	13	11
18	e42	e21	17	17	15	14	13	10	20	16	13	12
19	e36	e21	17	17	15	14	13	9.6	59	15	13	12
20	e34	e21	17	17	15	13	12	9.3	58	15	13	16
21	e32	e21	17	17	15	14	11	9.5	28	16	14	18
22	e29	e21	17	17	15	13	11	9.7	23	15	19	15
23	e28	21	16	18	15	13	11	9.6	26	15	21	14
24	e27	e21	16	61	15	13	11	10	33	15	16	14
25	e25	e21	16	28	14	13	11	9.5	21	17	19	13
26	e24	e20	16	23	15	13	11	8.9	30	18	16	13
27	e23	e20	17	21	14	13	10	9.1	30	17	15	14
28	e23	e20	17	20	15	13	9.7	9.4	25	16	14	14
29	e22	e20	17	20	---	13	9.9	9.5	26	15	13	14
30	e21	e20	17	19	---	13	10	9.7	22	15	13	13
31	e21	---	16	19	---	13	---	9.5	---	15	12	---
TOTAL	2040	670	543	620	443	432	348.6	303.9	612.2	513	460	373
MEAN	65.8	22.3	17.5	20.0	15.8	13.9	11.6	9.80	20.4	16.5	14.8	12.4
MAX	235	37	20	61	19	16	13	11	59	23	21	18
MIN	21	20	16	16	14	13	9.7	8.9	8.8	15	12	10
AC-FT	4050	1330	1080	1230	879	857	691	603	1210	1020	912	740
CFSM	.80	.27	.21	.24	.19	.17	.14	.12	.25	.20	.18	.15
IN.	.93	.30	.25	.28	.20	.20	.16	.14	.28	.23	.21	.17

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1999, BY WATER YEAR (WY)

MEAN	72.4	43.6	102	71.6	66.1	75.7	60.5	17.6	20.6	52.0	97.3	154
MAX	291	209	1139	529	622	496	452	59.2	37.2	327	371	533
(WY)	1996	1998	1998	1998	1998	1998	1987	1987	1986	1991	1995	1985
MIN	15.3	12.2	11.2	11.7	9.75	8.75	8.03	8.09	11.8	12.6	9.46	12.4
(WY)	1992	1991	1991	1991	1991	1991	1997	1994	1993	1993	1993	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1984 - 1999	
ANNUAL TOTAL	60108		7358.7			
ANNUAL MEAN	165		20.2		69.5	
HIGHEST ANNUAL MEAN					282	1998
LOWEST ANNUAL MEAN					18.0	1992
HIGHEST DAILY MEAN	1500	Feb 18	235	Oct 1	2700	Dec 13 1997
LOWEST DAILY MEAN	12	Jun 28	8.8	Jun 3	3.4	Apr 8 1991
ANNUAL SEVEN-DAY MINIMUM	13	Jun 23	9.3	May 28	5.0	Apr 17 1991
ANNUAL RUNOFF (AC-FT)	119200		14600		50340	
ANNUAL RUNOFF (CFSM)	2.01		.25		.85	
ANNUAL RUNOFF (INCHES)	27.27		3.34		11.51	
10 PERCENT EXCEEDS	534		26		154	
50 PERCENT EXCEEDS	27		16		22	
90 PERCENT EXCEEDS	16		10		11	

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	52.10	52.18	52.07	52.00	51.85	51.79	52.14	51.95	51.91
2	---	---	---	52.11	52.17	52.06	52.01	51.85	51.78	52.11	51.95	51.92
3	---	---	---	52.33	52.17	52.07	52.01	51.84	51.77	52.07	51.97	51.90
4	---	---	---	52.21	52.14	52.06	51.99	51.83	51.79	52.06	51.97	51.87
5	---	---	---	52.17	52.12	52.05	51.99	51.82	51.81	52.05	51.98	51.86
6	---	---	---	52.16	52.12	52.05	51.98	51.82	51.80	52.03	52.03	51.86
7	---	---	---	52.15	52.12	52.04	51.97	51.81	51.80	52.02	52.01	51.88
8	---	---	---	52.13	52.12	52.04	51.95	51.83	51.80	52.01	51.97	51.89
9	---	---	---	52.13	52.11	52.04	51.93	51.83	51.93	52.02	51.96	51.91
10	---	---	---	52.19	52.10	52.04	51.93	51.85	52.07	52.02	51.98	51.91
11	---	---	---	52.15	52.09	52.03	51.92	51.87	51.93	52.00	51.99	51.90
12	---	---	---	52.14	52.09	52.02	51.92	51.85	51.95	51.99	52.02	51.90
13	---	---	---	52.14	52.07	52.02	51.92	51.84	51.92	52.02	52.00	51.90
14	---	---	---	52.15	52.06	52.08	51.93	51.84	51.92	52.07	51.97	51.92
15	---	---	---	52.16	52.06	52.11	51.93	51.85	51.90	52.21	51.96	51.94
16	---	---	---	52.15	52.07	52.07	51.93	51.84	52.10	52.08	51.95	51.94
17	---	---	52.15	52.14	52.07	52.05	51.98	51.83	52.14	52.03	51.94	51.91
18	---	---	52.14	52.14	52.07	52.04	51.98	51.82	52.13	52.00	51.94	51.93
19	---	---	52.13	52.14	52.06	52.03	51.96	51.80	52.54	52.00	51.94	51.94
20	---	---	52.13	52.13	52.06	52.02	51.94	51.79	52.77	51.99	51.94	52.08
21	---	---	52.13	52.14	52.05	52.02	51.92	51.79	52.34	52.00	51.95	52.11
22	---	---	52.12	52.13	52.06	52.02	51.91	51.80	52.22	51.99	52.10	52.03
23	---	---	52.11	52.15	52.06	52.01	51.91	51.80	52.25	51.99	52.17	52.01
24	---	---	52.11	52.88	52.06	52.00	51.90	51.81	52.45	51.99	52.04	52.01
25	---	---	52.10	52.42	52.05	52.00	51.88	51.80	52.16	52.06	52.13	51.99
26	---	---	52.11	52.29	52.05	52.00	51.87	51.77	52.33	52.09	52.02	51.99
27	---	---	52.13	52.24	52.05	51.99	51.86	51.78	52.39	52.05	52.01	52.01
28	---	---	52.12	52.23	52.07	51.99	51.84	51.79	52.26	52.03	51.97	52.02
29	---	---	52.12	52.21	---	51.99	51.84	51.80	52.29	51.99	51.95	52.00
30	---	---	52.12	52.19	---	51.99	51.85	51.80	52.18	51.98	51.93	51.98
31	---	---	52.10	52.18	---	51.99	---	51.79	---	51.98	51.92	---
MEAN	---	---	---	52.20	52.09	52.03	51.93	51.82	52.08	52.03	51.99	51.95
MAX	---	---	---	52.88	52.18	52.11	52.01	51.87	52.77	52.21	52.17	52.11
MIN	---	---	---	52.10	52.05	51.99	51.84	51.77	51.77	51.98	51.92	51.86

02301990 HILLSBOROUGH RIVER ABOVE CRYSTAL SPRINGS, NEAR ZEPHYRHILLS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1960, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
09...	1200	52.28	22	378	6.40	19.0	5.4
JAN							
13...	1225	52.14	17	386	7.26	17.0	6.2
APR							
08...	1104	51.96	12	360	7.81	22.9	3.9
JUN							
10...	1035	52.08	18	361	7.41	23.7	4.5
AUG							
16...	1158	51.96	14	371	7.28	25.4	4.2
SEP							
27...	1220	52.01	14	370	6.51	24.4	3.8

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
09...	<.01	.81	.02	<.20	.08	.07
JAN						
13...	<.01	1.3	.01	<.20	.02	.04
APR						
08...	<.01	1.5	.01	.20	.07	.05
JUN						
10...	<.01	.91	.02	<.20	.05	.07
AUG						
16...	<.01	1.4	<.01	<.20	.06	.05
SEP						
27...	<.01	1.3	.02	.76	.06	.05

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°10'30", long 82°11'20", in SE$^1/_4$ 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1934 to current year (discharge measurements only). Miscellaneous discharge measurements for some periods prior to October 1934.

REVISED RECORDS.--WSP 1052: 1935, 1937-42, 1944, 1945.

GAGE.--Nonrecording gage. 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. 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.

AVERAGE DISCHARGE.--444 measurements (1923, 1933, 1934-99), 55.4 ft^3/s, 35.8 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 147 ft^3/s, July 19, 1941; minimum measured, 20 ft^3/s, July 1, 1946.

DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

Date	Time	Hillsborough River		Difference
		Below Springs (cfs)	Above Springs (cfs)	or spring flow (cfs)
Oct. 06	1230	117	68	49
Dec. 03	1420	70	18	52
Jan. 28	1505	71	21	50
Apr. 01	1605	55	12	43
May 20	1325	47	9.7	37
July 12	1150	61	16	45
Aug.11	1118	55	15	40

02302000 CRYSTAL SPRINGS NEAR ZEPHYRHILLS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1923, 1946, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
NOV											
09...	1215	344	7.50	22.0	--	3.6	--	--	--	--	--
JAN											
13...	1245	340	7.07	22.0	--	3.9	--	--	--	--	--
APR											
08...	1135	332	7.76	24.2	--	3.5	--	--	--	--	--
JUN											
10...	1050	344	7.74	24.3	--	3.3	--	--	--	--	--
AUG											
16...	1220	347	7.88	25.8	5	3.5	58	3.8	5.7	.4	8.5
SEP											
27...	1240	350	7.28	24.1	<5	2.9	59	3.9	5.5	.4	8.3

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV											
09...	--	--	--	--	<.01	2.4	.02	<.20	.04	.04	--
JAN											
13...	--	--	--	--	<.01	2.4	.01	<.20	.02	.03	--
APR											
08...	--	--	--	--	<.01	2.7	<.01	.46	.05	.04	--
JUN											
10...	--	--	--	--	<.01	2.7	.01	<.20	.04	.05	--
AUG											
16...	10	<.10	10	206	<.01	2.4	<.01	<.20	.04	.04	210
SEP											
27...	10	.10	11	204	<.01	2.3	.02	<.20	.04	.04	210

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL

LOCATION.--Lat 28°08'25", long 82°09'00", in NW$^1/_4$ 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^2, 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, 1985, at site 900 ft downstream at datum 70.56 ft lower; Oct. 1, 1985, to Sept. 30, 1987, at former site at present datum.

REMARKS.--Records good. Maximum discharge, 390 ft^3/s, Oct. 1, gage height 75.52 ft, occurred on recession following peak of Sept. 24, 1998; maximum independent peak discharge, 253 ft^3/s, July 1, gage height 74.44 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	19	13	15	27	11	3.5	12	12	232	14	36
2	267	17	14	14	25	10	3.4	7.4	11	144	13	58
3	213	18	14	28	25	9.5	3.2	5.9	11	187	13	47
4	163	21	14	36	26	9.5	2.7	4.6	12	115	13	37
5	122	44	14	29	25	10	2.3	3.7	11	123	19	32
6	106	51	14	25	25	12	2.1	3.4	8.4	99	46	30
7	97	37	13	24	24	9.9	2.1	3.1	6.1	69	39	32
8	98	32	13	24	22	8.8	3.9	3.1	4.9	52	27	36
9	78	31	13	22	22	7.8	3.2	3.4	12	55	19	29
10	77	28	13	21	20	7.2	11	5.1	82	74	17	27
11	73	28	13	21	20	6.7	5.9	5.6	65	55	17	25
12	59	27	12	21	19	6.6	3.5	5.5	80	43	18	23
13	55	23	12	21	18	6.3	2.8	15	71	53	55	22
14	50	19	15	20	16	7.0	2.8	14	58	88	39	21
15	44	18	14	19	16	13	2.8	43	46	79	28	41
16	38	18	14	18	15	13	3.8	37	30	55	30	42
17	52	18	15	19	15	12	3.3	16	30	43	29	28
18	39	15	13	17	14	10	4.9	11	95	35	22	24
19	34	15	13	16	13	8.9	5.4	8.8	90	30	20	31
20	32	15	14	17	12	7.1	4.0	7.7	63	25	29	63
21	29	14	13	21	11	6.9	3.4	7.8	45	22	50	75
22	28	15	12	20	11	6.8	3.0	48	38	19	94	61
23	26	14	12	17	12	6.0	2.7	67	33	67	209	43
24	24	15	12	65	13	6.0	2.3	35	e56	67	230	35
25	21	15	12	73	12	5.6	1.9	21	e101	39	189	31
26	20	14	11	57	11	5.9	1.8	15	e124	35	104	30
27	20	14	12	46	11	5.3	1.8	13	e149	31	82	39
28	21	15	14	38	10	6.1	1.5	15	e133	27	87	54
29	20	14	13	33	---	5.1	5.0	14	138	23	66	57
30	20	14	16	31	---	5.0	24	15	190	20	49	45
31	19	---	15	29	---	4.0	---	15	---	17	42	---
TOTAL	2300	638	412	857	490	249.0	124.0	481.1	1805.4	2023	1709	1154
MEAN	74.2	21.3	13.3	27.6	17.5	8.03	4.13	15.5	60.2	65.3	55.1	38.5
MAX	355	51	16	73	27	13	24	67	190	232	230	75
MIN	19	14	11	14	10	4.0	1.5	3.1	4.9	17	13	21
AC-FT	4560	1270	817	1700	972	494	246	954	3580	4010	3390	2290
CFSM	.67	.19	.12	.25	.16	.07	.04	.14	.55	.59	.50	.35
IN.	.78	.22	.14	.29	.17	.08	.04	.16	.61	.68	.58	.39

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1999, BY WATER YEAR (WY)

MEAN	76.4	36.8	50.9	52.7	63.7	99.9	38.1	26.4	67.8	106	162	194
MAX	362	244	882	229	457	729	276	232	345	419	655	833
(WY)	1960	1998	1998	1964	1998	1960	1959	1957	1959	1991	1965	1960
MIN	5.92	1.66	.83	5.38	4.09	5.04	.86	.011	3.42	12.0	19.1	13.9
(WY)	1981	1991	1991	1991	1991	1985	1985	1985	1985	1989	1956	1972

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1952 - 1999	
ANNUAL TOTAL	54510.6		12242.5			
ANNUAL MEAN	149		33.5		81.2	
HIGHEST ANNUAL MEAN					257	1960
LOWEST ANNUAL MEAN					23.1	1981
HIGHEST DAILY MEAN	1600	Mar 20	355	Oct 1	5080	Mar 18 1960
LOWEST DAILY MEAN	2.3	Jun 9	1.5	Apr 28	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	4.0	Jun 4	2.1	Apr 22	.00	May 22 1977
INSTANTANEOUS PEAK FLOW			390	Oct 1	5400	Mar 18 1960
INSTANTANEOUS PEAK STAGE			75.52	Oct 1	80.48	Sep 7 1988
ANNUAL RUNOFF (AC-FT)	108100		24280		58840	
ANNUAL RUNOFF (CFSM)	1.36		.30		.74	
ANNUAL RUNOFF (INCHES)	18.43		4.14		10.03	
10 PERCENT EXCEEDS	408		74		189	
50 PERCENT EXCEEDS	37		19		25	
90 PERCENT EXCEEDS	8.2		5.1		6.0	

02302500 BLACKWATER CREEK NEAR KNIGHTS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75.27	71.89	71.75	71.78	71.99	71.74	71.54	71.81	71.79	74.26	71.79	72.10
2	74.63	71.85	71.77	71.78	71.94	71.73	71.54	71.68	71.75	73.43	71.76	72.45
3	74.20	71.87	71.77	72.07	71.95	71.71	71.53	71.63	71.75	73.85	71.77	72.29
4	73.74	71.93	71.77	72.21	71.97	71.72	71.50	71.57	71.79	73.13	71.80	72.12
5	73.34	72.34	71.77	72.09	71.96	71.74	71.49	71.53	71.75	73.22	71.94	72.04
6	73.17	72.46	71.77	72.02	71.98	71.79	71.48	71.52	71.67	72.95	72.43	72.00
7	73.07	72.24	71.75	72.00	71.94	71.74	71.47	71.50	71.60	72.58	72.33	72.04
8	73.08	72.15	71.74	72.00	71.92	71.72	71.56	71.50	71.55	72.35	72.11	72.09
9	72.83	72.13	71.74	71.96	71.91	71.68	71.53	71.51	71.70	72.40	71.95	71.98
10	72.82	72.08	71.74	71.93	71.88	71.67	71.78	71.58	72.89	72.65	71.89	71.93
11	72.77	72.08	71.74	71.93	71.87	71.66	71.64	71.59	72.66	72.39	71.90	71.89
12	72.58	72.05	71.72	71.93	71.88	71.66	71.54	71.58	72.84	72.21	71.93	71.86
13	72.52	71.97	71.72	71.94	71.84	71.65	71.51	71.85	72.71	72.35	72.56	71.83
14	72.45	71.88	71.80	71.91	71.81	71.68	71.51	71.82	72.52	72.82	72.32	71.80
15	72.36	71.86	71.77	71.89	71.81	71.85	71.51	72.35	72.32	72.72	72.13	72.17
16	72.25	71.87	71.78	71.87	71.79	71.86	71.56	72.29	72.02	72.41	72.16	72.20
17	72.47	71.86	71.79	71.89	71.79	71.83	71.53	71.88	72.01	72.24	72.15	71.95
18	72.27	71.81	71.76	71.85	71.78	71.77	71.60	71.76	72.91	72.11	72.01	71.88
19	72.18	71.80	71.76	71.82	71.76	71.74	71.62	71.69	72.84	72.03	71.96	72.01
20	72.16	71.79	71.78	71.83	71.73	71.68	71.57	71.65	72.51	71.94	72.14	72.50
21	72.10	71.77	71.75	71.94	71.71	71.67	71.54	71.66	72.23	71.88	72.46	72.68
22	72.08	71.79	71.72	71.90	71.72	71.67	71.52	72.42	72.12	71.83	72.99	72.48
23	72.04	71.78	71.72	71.85	71.75	71.64	71.51	72.74	72.04	72.59	74.14	72.21
24	71.99	71.80	71.72	72.60	71.77	71.64	71.49	72.26	---	72.63	74.27	72.09
25	71.93	71.79	71.73	72.70	71.76	71.63	71.46	71.99	---	72.24	73.87	72.01
26	71.91	71.76	71.69	72.48	71.74	71.64	71.46	71.87	---	72.18	73.02	71.99
27	71.92	71.77	71.72	72.32	71.73	71.62	71.46	71.81	---	72.11	72.76	72.15
28	71.93	71.79	71.76	72.19	71.72	71.65	71.44	71.86	---	72.04	72.83	72.38
29	71.92	71.77	71.75	72.10	---	71.61	71.57	71.83	73.37	71.97	72.55	72.43
30	71.92	71.76	71.81	72.06	---	71.61	72.09	71.86	73.87	71.91	72.31	72.25
31	71.90	---	71.81	72.03	---	71.56	---	71.86	---	71.84	72.20	---
MEAN	72.64	71.92	71.75	72.03	71.84	71.70	71.55	71.82	---	72.49	72.40	72.13
MAX	75.27	72.46	71.81	72.70	71.99	71.86	72.09	72.74	---	74.26	74.27	72.68
MIN	71.90	71.76	71.69	71.78	71.71	71.56	71.44	71.50	---	71.83	71.76	71.80

CAL YR 1998 MEAN 72.97 MAX 78.98 MIN 71.51

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
09...	1240	72.14	32	520	6.10	18.0	6.5
JAN							
13...	1315	71.95	22	480	8.10	13.0	9.0
APR							
08...	1205	71.58	4.3	686	7.71	21.8	2.4
JUN							
10...	1130	73.06	95	216	7.42	23.8	6.0
AUG							
16...	1300	72.16	30	289	7.58	27.4	5.4
SEP							
27...	1315	72.21	42	442	6.43	25.2	5.9

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
09...	<.01	1.0	.04	.85	.44	.34
JAN						
13...	<.01	1.3	.02	.63	.25	.26
APR						
08...	.01	.28	.08	.99	.55	.47
JUN						
10...	.03	.59	.50	1.5	1.0	.45
AUG						
16...	<.01	.57	.04	.71	.70	.54
SEP						
27...	<.01	.67	.04	.96	.65	.45

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL

LOCATION.--Lat 28°08'59", long 82°13'57", in SW$^1/_4$ 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^2, 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. Records include high-water diversions upstream from station from the Withlacoochee River basin through Withlacoochee-Hillsborough overflow near Richland (station 02311000). Maximum discharge, 735 ft^3/s, Oct. 1, gage height 4.72 ft, occurred on recession following peak of Sept. 24, 1998; maximum independent peak discharge, 393 ft^3/s, Aug. 25, gage height 3.07 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	676	97	88	80	106	76	64	76	62	309	85	100
2	566	95	87	80	103	77	63	62	58	248	81	114
3	477	93	88	101	102	76	62	57	56	261	80	118
4	401	97	87	116	101	76	60	54	60	210	80	101
5	333	125	89	108	100	75	59	53	60	197	84	92
6	293	140	88	100	100	78	58	51	58	186	110	90
7	264	127	87	96	99	79	57	51	54	152	122	89
8	251	114	86	97	97	76	56	52	51	e140	107	96
9	223	110	85	94	96	75	57	51	55	128	94	91
10	208	107	84	96	94	74	60	53	126	141	89	85
11	199	105	84	93	93	72	66	57	144	134	88	79
12	249	103	84	91	92	72	59	56	132	116	91	76
13	448	102	84	91	90	72	56	60	147	114	113	73
14	265	101	87	90	88	75	56	71	127	144	119	72
15	227	100	88	88	88	83	55	83	114	195	99	80
16	202	99	85	86	87	90	55	109	104	148	95	104
17	190	99	86	86	84	87	59	80	103	122	98	88
18	176	96	84	85	84	82	59	63	147	110	89	81
19	152	95	83	84	81	78	61	58	196	103	83	81
20	140	95	83	82	79	74	60	55	248	95	85	115
21	132	95	83	85	75	73	58	54	147	92	108	160
22	125	93	81	88	75	74	56	75	122	86	142	141
23	118	94	80	85	75	71	55	128	117	105	292	116
24	113	93	79	190	76	71	54	107	260	154	293	103
25	109	93	80	187	75	69	53	82	176	e140	331	96
26	105	92	79	153	75	70	52	67	193	e120	207	93
27	103	91	79	136	74	69	51	61	250	109	174	97
28	102	91	80	126	74	68	51	61	194	105	159	115
29	100	90	82	118	---	68	51	64	245	95	144	122
30	99	89	82	113	---	66	74	63	248	90	118	114
31	98	---	84	109	---	65	---	66	---	87	107	---
TOTAL	7144	3021	2606	3234	2463	2311	1737	2080	4054	4436	3967	2982
MEAN	230	101	84.1	104	88.0	74.5	57.9	67.1	135	143	128	99.4
MAX	676	140	89	190	106	90	74	128	260	309	331	160
MIN	98	89	79	80	74	65	51	51	51	86	80	72
MED	199	96	84	94	88	74	58	61	126	128	107	96
CFSM	1.05	.46	.38	.47	.40	.34	.26	.30	.61	.65	.58	.45
IN.	1.21	.51	.44	.55	.42	.39	.29	.35	.69	.75	.67	.50

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1999, BY WATER YEAR (WY)

MEAN	264	137	166	178	192	282	175	101	179	309	443	534
MAX	944	512	2234	868	1247	2093	942	333	849	1959	1468	2280
(WY)	1960	1998	1998	1948	1998	1960	1941	1957	1959	1945	1945	1960
MIN	72.9	51.7	52.0	61.9	55.2	58.8	57.1	47.1	54.8	61.4	83.0	91.9
(WY)	1991	1991	1991	1991	1991	1949	1949	1994	1981	1981	1956	1978

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1940 - 1999	
ANNUAL TOTAL	146791		40035			
ANNUAL MEAN	402		110		247	
HIGHEST ANNUAL MEAN					745	1960
LOWEST ANNUAL MEAN					86.4	1981
HIGHEST DAILY MEAN	3520	Mar 21	676	Oct 1	12300	Mar 18 1960
LOWEST DAILY MEAN	69	Jun 9	51	Apr 27	40	May 27 1992
ANNUAL SEVEN-DAY MINIMUM	70	Jun 15	52	May 4	42	May 22 1994
INSTANTANEOUS PEAK FLOW			735	Oct 1	12600	Mar 18 1960
INSTANTANEOUS PEAK STAGE			4.72	Oct 1	15.33	Mar 18 1960
ANNUAL RUNOFF (CFSM)	1.83		.50		1.12	
ANNUAL RUNOFF (INCHES)	24.82		6.77		15.26	
10 PERCENT EXCEEDS	1100		188		528	
50 PERCENT EXCEEDS	132		90		116	
90 PERCENT EXCEEDS	78		59		69	

02303000 HILLSBOROUGH RIVER NEAR ZEPHYRHILLS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.42	1.09	1.01	.95	1.11	.88	.79	.87	.77	2.56	.93	1.06
2	3.85	1.08	1.01	.94	1.08	.88	.78	.77	.73	2.17	.91	1.18
3	3.39	1.06	1.01	1.13	1.07	.88	.77	.72	.71	2.26	.90	1.21
4	3.00	1.09	1.01	1.25	1.07	.87	.76	.70	.75	1.91	.90	1.07
5	2.64	1.33	1.02	1.19	1.06	.87	.75	.68	.75	1.82	.92	.99
6	2.41	1.45	1.02	1.12	1.06	.89	.73	.66	.73	1.74	1.14	.97
7	2.24	1.34	1.01	1.08	1.05	.89	.72	.66	.69	1.49	1.25	.97
8	2.17	1.24	.99	1.09	1.03	.88	.71	.67	.66	---	1.12	1.02
9	2.00	1.21	.98	1.07	1.03	.87	.72	.66	.69	1.30	1.01	.98
10	1.90	1.18	.98	1.08	1.01	.86	.75	.68	1.27	1.40	.96	.93
11	1.84	1.16	.98	1.06	1.00	.85	.80	.72	1.42	1.35	.95	.90
12	2.10	1.15	.98	1.04	.99	.85	.74	.71	1.33	1.19	.98	.87
13	3.24	1.14	.98	1.04	.97	.85	.72	.75	1.45	1.18	1.17	.86
14	2.25	1.13	1.01	1.03	.96	.87	.71	.84	1.29	1.42	1.22	.84
15	2.02	1.12	1.01	1.01	.96	.92	.70	.93	1.18	1.80	1.05	.91
16	1.86	1.11	.99	1.00	.95	.97	.70	1.14	1.09	1.46	1.02	1.09
17	1.79	1.11	.99	1.00	.93	.94	.74	.90	1.08	1.25	1.04	.96
18	1.70	1.09	.98	.99	.93	.92	.74	.78	1.44	1.15	.97	.90
19	1.53	1.08	.97	.98	.91	.89	.76	.73	1.80	1.08	.92	.91
20	1.44	1.08	.97	.96	.89	.86	.75	.70	2.16	1.01	.93	1.19
21	1.38	1.08	.97	.99	.87	.85	.73	.69	1.45	.99	1.12	1.55
22	1.32	1.06	.96	1.02	.87	.86	.71	.87	1.25	.94	1.40	1.40
23	1.27	1.07	.94	.99	.87	.84	.70	1.30	1.20	1.10	2.46	1.19
24	1.23	1.06	.93	1.77	.88	.84	.69	1.11	2.24	1.50	2.47	1.08
25	1.19	1.06	.94	1.76	.87	.83	.68	.91	1.66	---	2.69	1.03
26	1.16	1.05	.94	1.52	.87	.83	.67	.81	1.77	---	1.89	1.00
27	1.15	1.04	.93	1.38	.86	.83	.66	.76	2.18	1.14	1.65	1.03
28	1.13	1.04	.94	1.28	.86	.82	.66	.76	1.79	1.10	1.54	1.18
29	1.12	1.04	.96	1.21	---	.82	.66	.79	2.15	1.02	1.42	1.25
30	1.11	1.02	.96	1.16	---	.81	.85	.79	2.17	.97	1.22	1.17
31	1.10	---	.97	1.14	---	.80	---	.81	---	.95	1.12	---
MEAN	1.97	1.13	.98	1.14	.96	.87	.73	.80	1.33	---	1.27	1.06
MAX	4.42	1.45	1.02	1.77	1.11	.97	.85	1.30	2.24	---	2.69	1.55
MIN	1.10	1.02	.93	.94	.86	.80	.66	.66	.66	---	.90	.84

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
09...	1115	1.21	110	363	6.40	19.0	7.1
JAN							
13...	1140	1.04	91	374	7.34	16.5	8.2
APR							
08...	1015	.72	57	352	8.24	23.2	6.6
JUN							
10...	1000	1.22	118	356	7.61	23.9	5.4
AUG							
16...	1115	1.02	95	357	7.60	26.0	5.9
SEP							
27...	1145	1.00	93	355	6.41	24.3	5.5

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
09...	<.01	1.5	.02	.28	.14	.12
JAN						
13...	<.01	1.6	.01	.22	.07	.08
APR						
08...	<.01	2.0	.03	<.20	.07	.06
JUN						
10...	<.01	1.5	.01	.26	.23	.24
AUG						
16...	<.01	1.4	.01	.29	.24	.20
SEP						
27...	<.01	1.3	.02	.28	.18	.17

02303205 BAKER CREEK AT MCINTOSH ROAD NEAR ANTIOCH, FL

LOCATION.--Lat 28°01'41", long 82°14'44", 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^2.
PERIOD OF RECORD.--March 1992 to current year.
GAGE.--Water-stage recorder. Datum of gage is 42.46 ft above National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).
REMARKS.--Records fair. Prior to March 1997, flow included effluent from upstream industry.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	5.2	2.8	2.2	11	2.8	2.9	2.6	.04	20	7.9	15
2	59	4.9	4.7	2.0	12	4.3	.99	1.3	.03	36	5.8	21
3	51	4.6	6.4	19	13	5.5	.37	.31	e.02	47	7.4	20
4	43	9.4	6.9	19	11	6.1	.19	.03	e.01	30	21	14
5	37	31	6.2	14	9.6	3.1	.16	e.02	1.1	20	77	9.0
6	33	30	6.8	13	9.9	1.5	.16	2.3	.06	14	62	7.4
7	32	20	6.3	9.6	8.9	1.4	1.5	2.5	.03	10	51	7.6
8	31	14	5.4	8.4	7.7	1.3	2.7	2.8	e.02	10	32	7.2
9	29	11	2.9	9.0	8.6	2.7	2.4	3.1	.45	12	22	6.3
10	29	9.4	3.0	12	10	4.6	.55	1.1	8.9	19	18	5.4
11	28	9.9	3.8	10	9.7	3.0	.16	.13	5.2	16	19	4.5
12	27	11	5.4	8.7	8.5	1.7	e.03	1.1	1.1	18	20	3.8
13	32	11	6.7	7.5	7.8	.94	e.14	6.7	2.7	30	28	3.1
14	26	11	8.1	6.5	4.7	2.2	.81	4.6	6.6	73	27	2.8
15	24	7.4	7.8	6.1	3.8	8.1	2.7	7.1	4.6	84	46	3.8
16	21	5.9	6.4	5.6	3.7	6.0	1.7	4.9	3.1	74	51	2.9
17	20	6.7	5.0	5.3	4.4	9.3	.57	3.8	3.9	61	33	2.1
18	e18	6.9	4.2	5.2	5.0	6.7	.12	2.6	9.1	39	27	3.7
19	e15	6.4	4.5	5.3	4.9	5.5	.65	2.5	8.2	28	24	7.7
20	e14	6.1	6.3	5.2	4.5	3.8	.09	3.1	6.8	22	28	17
21	e13	5.9	6.0	5.1	4.8	1.7	1.6	3.2	4.8	18	30	28
22	e11	4.7	4.2	5.1	3.4	1.3	2.0	3.1	3.3	13	34	25
23	e10	4.2	2.7	6.6	4.6	1.9	.70	1.8	6.4	14	104	19
24	e9.5	4.8	2.2	93	6.2	4.3	.09	.35	20	12	67	14
25	e8.5	5.8	1.9	70	6.4	4.5	.03	.04	18	13	46	12
26	e8.0	5.5	1.9	41	5.5	2.5	.03	.03	11	29	33	9.7
27	e7.2	4.1	2.0	27	3.4	.99	.03	1.2	16	43	28	9.2
28	e6.8	3.4	1.9	21	2.5	.44	.03	2.1	11	34	24	9.6
29	e6.2	3.1	1.9	18	---	.33	1.6	2.3	6.4	25	18	11
30	e5.8	3.1	2.8	16	---	.38	2.6	1.9	12	19	14	9.8
31	e5.5	---	3.0	14	---	3.3	---	.46	---	12	15	---
TOTAL	728.5	266.4	140.1	490.4	195.5	102.18	27.60	69.07	170.86	895	1020.1	311.6
MEAN	23.5	8.88	4.52	15.8	6.98	3.30	.92	2.23	5.70	28.9	32.9	10.4
MAX	68	31	8.1	93	13	9.3	2.9	7.1	20	84	104	28
MIN	5.5	3.1	1.9	2.0	2.5	.33	.03	.02	.01	10	5.8	2.1
CFSM	.86	.32	.16	.58	.25	.12	.03	.08	.21	1.05	1.20	.38
IN.	.99	.36	.19	.67	.27	.14	.04	.09	.23	1.22	1.38	.42

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1999, BY WATER YEAR (WY)

MEAN	28.3	17.9	29.1	25.8	24.9	22.5	11.2	6.88	14.0	21.0	27.9	44.6
MAX	47.4	40.6	138	50.5	85.9	71.0	23.7	17.6	34.2	37.0	60.6	91.0
(WY)	1995	1998	1998	1998	1998	1998	1993	1996	1994	1994	1994	1994
MIN	14.1	6.36	4.52	6.12	4.81	1.38	.92	1.70	1.21	4.96	9.12	7.49
(WY)	1997	1997	1999	1997	1997	1997	1999	1997	1998	1997	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1993 - 1999	
ANNUAL TOTAL	11645.97		4417.31			
ANNUAL MEAN	31.9		12.1		22.8	
HIGHEST ANNUAL MEAN					46.4	1998
LOWEST ANNUAL MEAN					9.62	1997
HIGHEST DAILY MEAN	452	Sep 21	104	Aug 23	523	Sep 28 1997
LOWEST DAILY MEAN	.23	Jun 17	.01	Jun 4	.01	Apr 9 1997
ANNUAL SEVEN-DAY MINIMUM	.51	Jun 15	.18	Jun 2	.01	Apr 7 1997
INSTANTANEOUS PEAK FLOW			135	Jul 14	764	Dec 27 1997
INSTANTANEOUS PEAK STAGE			4.59	Jul 14	10.63	Dec 27 1997
ANNUAL RUNOFF (CFSM)	1.16		.44		.83	
ANNUAL RUNOFF (INCHES)	15.81		6.00		11.32	
10 PERCENT EXCEEDS	75		30		46	
50 PERCENT EXCEEDS	13		6.4		13	
90 PERCENT EXCEEDS	1.6		.68		2.4	

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL

LOCATION.--Lat 28°05'50", long 82°18'45", in NW 1/4 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^2, 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 recorder. 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 good. Flow regulated during flood stage by Hillsborough River at Structure S-155 (station 02303354) 3.0 mi downstream since 1985. Maximum discharge, 2,600 ft^3/s, Oct. 1, gage height 30.34 ft, occurred on recession following peak of Sept. 25, 1998; maximum independent peak discharge, 327 ft^3/s, Aug. 26, gage height 26.61 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2390	109	100	91	165	78	59	53	57	213	98	152
2	1970	108	99	91	159	76	58	58	55	235	91	148
3	1430	107	98	116	154	75	58	54	52	263	87	140
4	1040	114	97	119	147	74	57	50	52	265	88	128
5	793	149	97	119	140	73	56	48	54	257	94	117
6	615	195	97	118	132	72	55	47	60	242	111	108
7	524	207	96	117	126	73	54	45	55	221	123	104
8	463	183	95	115	123	73	53	45	49	233	149	98
9	420	161	94	114	120	71	52	45	48	230	175	95
10	398	144	94	117	117	70	52	45	59	247	181	90
11	384	137	93	116	112	69	54	50	75	232	150	84
12	364	138	92	113	109	67	57	50	83	222	131	79
13	351	151	93	110	106	66	54	51	86	213	116	75
14	403	177	96	109	102	68	51	52	94	183	108	72
15	437	194	95	107	99	77	50	58	92	172	116	69
16	389	195	95	106	96	76	49	62	90	188	112	70
17	344	183	93	106	95	77	51	70	89	237	111	78
18	314	147	92	105	93	76	55	65	96	250	119	83
19	292	120	92	104	88	73	54	58	101	230	123	83
20	271	111	92	103	83	71	53	52	111	200	124	85
21	249	107	92	101	80	70	53	49	118	159	134	104
22	228	111	92	101	78	71	51	50	124	123	147	122
23	207	106	91	103	77	68	50	60	129	107	135	126
24	187	108	90	163	76	65	49	75	159	101	141	122
25	159	108	89	171	77	64	48	76	193	107	205	112
26	137	107	89	192	77	63	47	69	220	114	307	101
27	124	105	89	215	76	63	46	61	215	120	316	95
28	118	103	88	210	76	62	45	55	209	124	272	99
29	114	102	89	192	---	61	45	54	213	120	229	100
30	112	101	93	181	---	61	45	58	210	113	195	101
31	111	---	92	173	---	60	---	58	---	105	172	---
TOTAL	15338	4088	2894	3998	2983	2163	1561	1723	3248	5826	4660	3040
MEAN	495	136	93.4	129	107	69.8	52.0	55.6	108	188	150	101
MAX	2390	207	100	215	165	78	59	76	220	265	316	152
MIN	111	101	88	91	76	60	45	45	48	101	87	69
AC-FT	30420	8110	5740	7930	5920	4290	3100	3420	6440	11560	9240	6030
CFSM	1.32	.36	.25	.34	.28	.19	.14	.15	.29	.50	.40	.27
IN.	1.52	.41	.29	.40	.30	.21	.15	.17	.32	.58	.46	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 1999, BY WATER YEAR (WY)

MEAN	288	154	201	213	257	307	177	103	165	285	423	568
MAX	910	578	1907	983	1710	2203	822	447	921	1030	1013	2026
(WY)	1980	1998	1998	1998	1998	1998	1987	1979	1976	1991	1975	1979
MIN	72.1	53.7	50.1	61.0	55.9	59.7	52.0	45.4	54.6	58.0	76.0	101
(WY)	1973	1991	1991	1992	1991	1997	1999	1985	1977	1981	1993	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1973 - 1999	
ANNUAL TOTAL	231256		51522			
ANNUAL MEAN	634		141		262	
HIGHEST ANNUAL MEAN					834	1998
LOWEST ANNUAL MEAN					115	1981
HIGHEST DAILY MEAN	4220	Mar 22	2390	Oct 1	5090	Dec 15 1997
LOWEST DAILY MEAN	62	Jun 24	45	Apr 28	32	May 29 1992
ANNUAL SEVEN-DAY MINIMUM	63	Jun 21	46	Apr 24	33	May 28 1992
INSTANTANEOUS PEAK FLOW			2600	Oct 1	5200	Dec 15 1997
INSTANTANEOUS PEAK STAGE			30.34	Oct 1	34.27	Dec 15 1997
ANNUAL RUNOFF (AC-FT)	458700		102200		189600	
ANNUAL RUNOFF (CFSM)	1.69		.38		.70	
ANNUAL RUNOFF (INCHES)	22.94		5.11		9.48	
10 PERCENT EXCEEDS	2190		229		590	
50 PERCENT EXCEEDS	195		101		124	
90 PERCENT EXCEEDS	75		53		63	

02303330 HILLSBOROUGH RIVER AT MORRIS BRIDGE NEAR THONOTOSASSA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.14	25.28	25.14	24.98	25.84	24.71	24.30	24.17	24.26	26.08	25.09	25.70
2	29.70	25.26	25.12	24.97	25.77	24.68	24.28	24.29	24.20	26.19	24.99	25.67
3	29.03	25.25	25.10	25.37	25.72	24.66	24.27	24.20	24.13	26.33	24.90	25.61
4	28.42	25.35	25.09	25.42	25.67	24.65	24.26	24.10	24.13	26.34	24.92	25.52
5	27.93	25.67	25.08	25.42	25.61	24.61	24.23	24.04	24.18	26.30	25.03	25.39
6	27.52	25.98	25.08	25.40	25.56	24.59	24.21	24.00	24.32	26.23	25.30	25.25
7	27.27	26.04	25.07	25.38	25.51	24.61	24.18	23.97	24.21	26.12	25.47	25.19
8	27.09	25.91	25.06	25.35	25.47	24.61	24.15	23.97	24.06	26.18	25.68	25.11
9	26.95	25.76	25.04	25.34	25.43	24.58	24.14	23.95	24.03	26.16	25.85	25.06
10	26.87	25.65	25.03	25.39	25.38	24.56	24.14	23.95	24.30	26.25	25.89	24.97
11	26.83	25.60	25.01	25.37	25.32	24.52	24.18	24.08	24.65	26.18	25.69	24.85
12	26.75	25.60	25.00	25.32	25.28	24.48	24.25	24.10	24.81	26.13	25.55	24.75
13	26.70	25.69	25.01	25.29	25.23	24.46	24.17	24.11	24.87	26.08	25.37	24.67
14	26.89	25.87	25.06	25.27	25.17	24.50	24.11	24.14	25.04	25.90	25.26	24.59
15	27.01	25.97	25.05	25.25	25.11	24.69	24.08	24.28	25.01	25.83	25.38	24.53
16	26.84	25.98	25.04	25.23	25.07	24.68	24.07	24.36	24.95	25.93	25.31	24.56
17	26.67	25.90	25.02	25.22	25.05	24.70	24.12	24.54	24.95	26.20	25.31	24.72
18	26.55	25.66	25.00	25.21	25.02	24.67	24.21	24.44	25.06	26.27	25.42	24.83
19	26.46	25.43	25.01	25.20	24.92	24.63	24.18	24.28	25.15	26.17	25.47	24.82
20	26.37	25.30	25.00	25.18	24.82	24.57	24.17	24.15	25.30	26.00	25.49	24.86
21	26.26	25.24	25.00	25.15	24.75	24.54	24.16	24.06	25.40	25.74	25.57	25.19
22	26.16	25.30	25.01	25.14	24.72	24.56	24.12	24.08	25.49	25.46	25.67	25.46
23	26.05	25.23	24.99	25.18	24.69	24.50	24.08	24.32	25.53	25.24	25.58	25.51
24	25.93	25.26	24.96	25.82	24.68	24.45	24.06	24.65	25.75	25.15	25.62	25.46
25	25.75	25.26	24.94	25.90	24.69	24.41	24.03	24.67	25.96	25.25	26.02	25.31
26	25.60	25.24	24.94	26.06	24.69	24.40	24.01	24.53	26.11	25.35	26.52	25.14
27	25.48	25.22	24.94	26.16	24.68	24.39	23.99	24.35	26.09	25.43	26.56	25.05
28	25.40	25.19	24.93	26.14	24.67	24.37	23.97	24.22	26.05	25.48	26.37	25.12
29	25.34	25.17	24.95	26.08	---	24.35	23.96	24.19	26.08	25.42	26.16	25.14
30	25.31	25.16	25.01	25.99	---	24.34	23.95	24.28	26.06	25.32	25.97	25.15
31	25.29	---	24.99	25.91	---	24.32	---	24.27	---	25.22	25.84	---
MEAN	26.79	25.51	25.02	25.45	25.16	24.54	24.13	24.22	25.00	25.87	25.59	25.11
MAX	30.14	26.04	25.14	26.16	25.84	24.71	24.30	24.67	26.11	26.34	26.56	25.70
MIN	25.29	25.16	24.93	24.97	24.67	24.32	23.95	23.95	24.03	25.15	24.90	24.53

WTR YR 1999 MEAN 25.20 MAX 30.14 MIN 23.95

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
09...	1005	25.78	164	392	6.18	17.0	--	6.6	--	--	--	--
JAN												
13...	1010	25.30	111	347	7.27	13.0	40	7.8	51	4.3	11	2.1
APR												
08...	0908	24.15	53	366	8.23	23.6	10	6.2	61	4.2	9.3	1.1
JUN												
10...	0915	24.28	58	336	7.66	24.2	--	5.7	--	--	--	--
AUG												
16...	1015	25.30	111	364	7.69	26.8	50	4.6	46	4.5	19	4.3
SEP												
27...	1045	25.05	95	340	6.57	24.6	60	5.0	51	4.3	11	2.5

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV											
09...	--	--	--	--	--	<.01	.61	.02	.48	.20	.17
JAN											
13...	16	18	.20	7.8	213	<.01	.99	.03	.39	.11	.12
APR											
08...	14	15	.14	8.7	221	.01	1.6	.03	.22	.11	.08
JUN											
10...	--	--	--	--	--	<.01	1.4	.03	.31	.14	.15
AUG											
16...	20	23	.25	9.1	234	<.01	.68	.04	.56	.32	.26
SEP											
27...	16	16	.21	10	222	<.01	.87	.04	.42	.25	.23

DATE	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)
NOV											
09...	--	--	--	--	--	--	--	--	--	--	--
JAN											
13...	39	<1.0	<1.0	<1.0	<1.0	91	<1	<.1	<1.0	250	1.7
APR											
08...	41	<1.0	<1.0	<1.0	<1.0	37	<1	<.1	<1.0	330	1.8
JUN											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	69	2.4	<1.0	<1.0	1.1	174	<1	<.1	<1.0	230	2.4
SEP											
27...	44	<1.0	<1.0	<1.0	<1.0	164	<1	<.1	<1.0	290	1.8

02303350 TROUT CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°08'20", long 82°21'50", in SW$^1/_4$ 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^2, 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. Maximum discharge, 68 ft^3/s, Oct. 1, gage height 38.15 ft, occurred on recession following peak of Sept. 21, 1998; maximum independent peak discharge, 55 ft^3/s, June 24, gage height 37.87 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	.53	.00	.00	2.9	.00	.00	.00	.00	12	.00	3.3
2	60	.42	.00	.00	2.8	.00	.00	.00	.00	12	.00	16
3	50	1.1	.00	.27	2.7	.00	.00	.00	.00	11	.00	25
4	41	.55	.00	.76	2.5	.00	.00	.00	.00	10	.00	26
5	32	1.2	.00	.68	2.3	.00	.00	.00	.00	13	.00	21
6	26	2.2	.00	.45	1.9	.00	.00	.00	.00	10	.30	15
7	20	3.0	.00	.29	1.5	.00	.00	.00	.00	7.4	1.4	13
8	15	1.7	.00	.22	1.4	.00	.00	.00	.00	14	1.0	11
9	12	1.2	.00	.21	1.5	.00	.00	.00	.00	26	.75	8.0
10	9.7	.99	.00	.37	1.3	.00	.00	.00	.00	47	.59	5.9
11	7.8	.78	.00	.55	.99	.00	.00	.00	.00	26	.55	4.8
12	6.4	.70	.00	.57	.81	.00	.00	.00	.00	14	.58	3.8
13	5.7	.43	.00	.54	.65	.00	.00	.00	.00	9.4	1.1	3.0
14	9.7	.42	.02	.40	.57	.00	.00	.00	.00	6.6	1.1	2.6
15	13	.16	.02	.27	.62	.00	.00	.00	.00	6.0	1.5	2.3
16	11	.08	.00	.22	.75	.00	.00	.00	.00	14	1.2	1.9
17	9.2	1.2	.03	.19	.72	.00	.00	.00	.00	10	.97	1.4
18	7.6	.50	.05	.16	.58	.00	.00	.00	.00	7.5	.88	1.4
19	7.3	.14	.06	.13	.47	.00	.00	.00	.40	5.2	.73	1.3
20	6.3	.09	.09	.10	.33	.00	.00	.00	2.0	3.8	.59	1.8
21	5.1	.01	.13	.10	.22	.00	.00	.00	1.9	2.7	.95	2.1
22	4.1	.00	.05	.05	.18	.00	.00	.00	1.8	2.4	5.4	2.0
23	2.4	.00	.00	.04	.12	.00	.00	.00	3.3	2.7	39	1.8
24	2.0	.00	.00	4.1	.06	.00	.00	.00	49	e2.4	25	1.6
25	1.9	.00	.00	6.0	.00	.00	.00	.00	33	e2.0	14	1.5
26	1.2	.00	.00	5.6	.00	.00	.00	.00	26	e1.6	11	1.4
27	.93	.00	.00	4.5	.00	.00	.00	.00	17	1.4	9.2	1.3
28	.74	.00	.00	4.0	.00	.00	.00	.00	14	1.1	7.0	1.3
29	.63	.00	.00	3.5	---	.00	.00	.00	13	.73	5.3	1.4
30	.55	.00	.00	3.1	---	.00	.00	.00	12	.30	4.1	1.3
31	.56	---	.00	3.1	---	.00	---	.00	---	.10	3.2	---
TOTAL	435.81	17.40	0.45	40.47	27.87	0.00	0.00	0.00	173.40	282.33	137.39	184.2
MEAN	14.1	.58	.015	1.31	1.00	.000	.000	.000	5.78	9.11	4.43	6.14
MAX	66	3.0	.13	6.0	2.9	.00	.00	.00	49	47	39	26
MIN	.55	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	1.3
CFSM	.61	.03	.00	.06	.04	.00	.00	.00	.25	.40	.19	.27
IN.	.70	.03	.00	.07	.05	.00	.00	.00	.28	.46	.22	.30

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

MEAN	13.5	7.57	15.5	13.8	24.0	29.9	10.2	9.09	8.02	16.6	35.1	58.6
MAX	72.7	70.8	285	67.5	202	161	69.6	117	81.2	81.1	125	248
(WY)	1996	1989	1998	1998	1998	1987	1987	1979	1982	1986	1985	1979
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.34
(WY)	1981	1979	1979	1981	1985	1985	1985	1975	1977	1977	1993	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1975 - 1999	
ANNUAL TOTAL	20392.51		1299.32			
ANNUAL MEAN	55.9		3.56		20.1	
HIGHEST ANNUAL MEAN					85.7	1998
LOWEST ANNUAL MEAN					2.10	1977
HIGHEST DAILY MEAN	749	Feb 17	66	Oct 1	1160	May 9 1979
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 10	.00	Nov 22	.00	Nov 25 1974
INSTANTANEOUS PEAK FLOW			68	Oct 1	1540	Jun 28 1974
INSTANTANEOUS PEAK STAGE			38.15	Oct 1	42.58	Jun 28 1974
ANNUAL RUNOFF (CFSM)	2.43		.15		.87	
ANNUAL RUNOFF (INCHES)	32.98		2.10		11.88	
10 PERCENT EXCEEDS	147		11		49	
50 PERCENT EXCEEDS	5.7		.27		1.4	
90 PERCENT EXCEEDS	.00		.00		.00	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
09...	0930	35.92	1.3	254	5.90	16.5	4.2
JUL							
14...	1025	36.41	6.8	269	5.68	25.3	1.8
AUG							
16...	0938	36.08	1.2	366	7.22	26.3	.7
SEP							
27...	0949	35.88	1.3	433	6.28	23.5	--

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
09...	<.01	.06	<.01	.81	.08	.06
JUL						
14...	<.01	.06	.04	1.1	.13	.12
AUG						
16...	<.01	.06	.02	.75	.15	.13
SEP						
27...	<.01	.02	.09	1.8	.62	.13

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL

LOCATION.--Lat 28°19'25", long 82°23'03", in SW$^1/_4$ 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^2.

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 lower.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62	7.6	4.5	1.1	e3.7	.16	.00	.00	1.9	e26	.00	.00
2	e80	6.9	e4.2	1.2	e3.3	.14	.00	.00	1.8	e25	.00	.00
3	e78	6.3	e3.7	2.7	e3.1	.12	.00	.00	1.7	e19	.00	.00
4	e72	6.8	e3.4	2.3	e2.9	.10	.00	.00	1.7	e9.0	.00	.00
5	e66	9.1	e2.9	2.1	e2.8	.09	.00	.00	1.2	e4.5	.00	.00
6	e60	7.9	e2.4	2.0	e2.6	.07	.00	.00	1.0	e2.1	.00	.00
7	e56	7.1	e2.1	2.1	e2.4	.06	.00	.00	1.3	e1.1	.00	.00
8	e49	6.8	e1.9	2.1	e2.3	.05	.00	.00	.93	e1.0	.00	.00
9	e45	6.8	e1.7	2.3	e2.2	.04	.00	.00	.62	e2.7	.00	.00
10	e42	6.7	e1.4	2.7	e2.0	.02	.00	.00	.44	e5.7	.00	.00
11	e40	6.4	e1.3	2.4	e1.9	.00	.00	.00	.47	e9.0	.00	.00
12	e38	6.1	e1.2	2.3	e1.8	.00	.00	.00	.66	e6.8	.00	.00
13	e34	6.0	2.3	2.2	e1.7	.00	.00	.00	1.1	e5.0	.00	.00
14	e32	5.9	2.9	2.3	1.6	.00	.00	.00	.90	e13	.00	.00
15	e29	7.8	2.4	2.4	1.5	.00	.00	.00	.52	e25	.00	.00
16	e26	11	2.1	2.1	1.5	.00	.00	.00	.34	e9.0	.00	.00
17	e24	12	2.1	2.0	1.3	.00	.00	.00	.27	e2.0	.00	.00
18	e22	11	1.9	1.9	1.2	.00	.00	.00	.17	e.45	.00	.00
19	19	10	1.9	1.9	1.1	.00	.00	.03	e.12	e.09	.00	.00
20	18	9.8	1.8	1.9	.86	.00	.00	.06	e7.0	e.00	.00	.00
21	17	10	1.7	1.9	.65	.00	.00	.02	e6.9	e.00	.00	.00
22	16	12	1.6	1.8	.53	.00	.00	.09	e5.0	.00	.00	.00
23	15	12	1.5	1.8	.38	.00	.00	1.0	e3.4	.00	.00	.00
24	14	11	1.4	7.0	.31	.00	.00	.77	e2.6	.00	.00	.00
25	13	9.6	1.4	5.8	.26	.00	.00	.61	e1.8	.00	.00	.00
26	12	8.2	1.4	e8.0	.22	.00	.00	.64	e1.6	.00	.00	.00
27	11	7.3	1.3	e6.8	.20	.00	.00	.41	e2.9	.00	.00	.00
28	9.9	6.3	1.3	e6.0	.19	.00	.00	.30	e30	.00	.00	.00
29	9.3	5.6	1.5	e5.4	---	.00	.00	.30	e28	.00	.00	.00
30	8.6	4.9	1.5	e4.7	---	.00	.00	1.2	e26	.00	.00	.00
31	8.2	---	1.2	e4.2	---	.00	---	2.5	---	.00	.00	---
TOTAL	1026.0	244.9	63.9	95.4	44.50	0.85	0.00	7.93	132.34	166.44	0.00	0.00
MEAN	33.1	8.16	2.06	3.08	1.59	.027	.000	.26	4.41	5.37	.000	.000
MAX	80	12	4.5	8.0	3.7	.16	.00	2.5	30	26	.00	.00
MIN	8.2	4.9	1.2	1.1	.19	.00	.00	.00	.12	.00	.00	.00
AC-FT	2040	486	127	189	88	1.7	.00	16	262	330	.00	.00
CFSM	.59	.15	.04	.05	.03	.00	.00	.00	.08	.10	.00	.00
IN.	.68	.16	.04	.06	.03	.00	.00	.01	.09	.11	.00	.00

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	20.4	8.04	12.2	16.0	24.1	24.8	11.8	4.07	8.69	17.2	31.2	41.5
MAX	105	43.7	191	91.2	216	154	99.0	44.6	87.7	132	229	178
(WY)	1983	1989	1998	1998	1998	1998	1987	1979	1982	1974	1965	1964
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1991	1979	1979	1981	1985	1981	1981	1968	1977	1973	1990	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	17252.45		1782.26			
ANNUAL MEAN	47.3		4.88		18.3	
HIGHEST ANNUAL MEAN					62.8	1998
LOWEST ANNUAL MEAN					.11	1992
HIGHEST DAILY MEAN	572	Feb 18	80	Oct 2	996	Mar 31 1987
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 16	.00	Mar 11	.00	May 9 1967
INSTANTANEOUS PEAK FLOW			81	Oct 2	1100	Mar 31 1987
INSTANTANEOUS PEAK STAGE			73.14	Oct 2	76.05	Mar 31 1987
ANNUAL RUNOFF (AC-FT)	34220		3540		13260	
ANNUAL RUNOFF (CFSM)	.84		.087		.33	
ANNUAL RUNOFF (INCHES)	11.46		1.18		4.44	
10 PERCENT EXCEEDS	136		12		50	
50 PERCENT EXCEEDS	9.5		.90		3.7	
90 PERCENT EXCEEDS	.03		.00		.00	

02303400 CYPRESS CREEK NEAR SAN ANTONIO, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72.93	70.76	70.48	70.01	---	69.71	---	---	70.22	---	---	69.12
2	---	70.70	---	70.03	---	69.69	---	---	70.20	---	---	69.12
3	---	70.65	---	70.27	---	69.68	---	---	70.18	---	---	69.11
4	---	70.69	---	70.23	---	69.66	---	---	70.17	---	---	69.09
5	---	70.89	---	70.19	---	69.63	---	---	70.08	---	---	69.08
6	---	70.78	---	70.18	---	69.62	---	---	70.03	---	---	69.08
7	---	70.72	---	70.19	---	69.60	---	---	70.08	---	---	69.06
8	---	70.70	---	70.20	---	69.58	---	---	70.00	---	---	69.06
9	---	70.69	---	70.22	---	69.55	---	---	69.92	---	---	69.06
10	---	70.69	---	70.28	---	69.53	---	---	69.86	---	---	69.06
11	---	70.66	---	70.23	---	69.48	---	---	69.88	---	---	69.06
12	---	70.64	---	70.21	---	69.19	---	---	69.93	---	---	69.05
13	---	70.63	70.21	70.21	---	69.12	---	---	70.04	---	---	69.05
14	---	70.61	70.30	70.22	70.11	69.11	---	---	70.00	---	---	69.05
15	---	70.78	70.23	70.23	70.09	69.09	---	---	69.89	---	---	69.05
16	---	71.06	70.19	70.19	70.08	69.09	---	---	69.82	---	---	69.05
17	---	71.10	70.19	70.17	70.06	69.09	---	---	69.79	---	---	69.05
18	---	71.08	70.16	70.16	70.04	69.09	---	69.15	69.73	---	---	69.05
19	71.62	71.01	70.15	70.16	70.00	69.09	---	69.29	---	---	---	69.05
20	71.56	70.95	70.15	70.15	69.95	69.08	---	69.60	---	---	---	69.05
21	71.50	71.00	70.13	70.16	69.90	69.08	---	69.54	---	---	69.20	69.05
22	71.43	71.11	70.11	70.14	69.87	69.08	---	69.59	---	69.49	69.37	69.05
23	71.33	71.17	70.09	70.14	69.82	---	---	70.03	---	69.43	69.41	69.05
24	71.26	71.08	70.08	70.71	69.79	---	---	69.96	---	69.37	69.45	69.05
25	71.18	70.94	70.07	70.61	69.77	---	---	69.92	---	69.30	69.40	69.05
26	71.11	70.82	70.06	---	69.75	---	---	69.93	---	69.23	69.42	69.05
27	71.03	70.74	70.05	---	69.73	---	---	69.85	---	69.19	69.36	69.05
28	70.97	70.66	70.06	---	69.73	---	---	69.80	---	69.15	69.30	69.07
29	70.91	70.59	70.10	---	---	---	---	69.80	---	69.12	69.24	69.10
30	70.86	70.53	70.08	---	---	---	---	70.04	---	69.09	69.18	69.09
31	70.81	---	70.03	---	---	---	---	70.32	---	---	69.13	---
MEAN	---	70.81	---	---	---	---	---	---	---	---	---	69.07
MAX	---	71.17	---	---	---	---	---	---	---	---	---	69.12
MIN	---	70.53	---	---	---	---	---	---	---	---	---	69.05

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL

LOCATION.--Lat 28°11'08", long 82°24'03", in SW 1/4 sec.27, T.26 S., R.19 E., Pasco County, Hydrologic Unit 03100205, on right bank 30 ft downstream from 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^2.

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. Maximum discharge, 289 ft^3/s, Oct. 1, gage height 7.92 ft, occurred on recession following peak of Sept. 23, 1998; maximum independent peak discharge, 44 ft^3/s, June 24, gage height 4.76 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	278	11	2.7	2.3	17	.99	.03	.00	.08	5.7	.04	.22
2	258	9.6	2.6	2.2	15	.96	.02	.00	.04	5.1	.04	8.4
3	241	8.6	2.4	4.5	13	.88	.02	.00	.06	4.5	.02	18
4	224	8.2	2.4	7.9	11	.82	.01	.00	.04	3.9	.01	12
5	208	12	2.5	8.1	9.6	.71	.00	.00	.07	3.7	.01	4.9
6	193	14	2.4	6.9	8.2	.62	.00	.00	.11	3.1	.00	2.9
7	179	13	2.3	5.9	7.1	.55	.00	.00	.07	2.4	.00	4.3
8	165	12	2.2	5.5	6.5	.47	.00	.00	.05	2.1	.00	4.0
9	152	11	2.1	5.5	6.1	.41	.00	.00	.12	4.0	.00	3.1
10	141	11	2.1	7.3	5.8	.35	.00	.00	.21	12	.00	3.4
11	130	10	2.0	8.5	5.6	.28	.00	.00	.15	13	.00	2.8
12	118	10	1.9	7.9	5.4	.24	.00	.01	.13	8.0	.00	2.0
13	110	10	2.5	7.0	4.9	.20	.00	.02	.11	4.7	.00	1.4
14	101	9.5	5.4	6.2	4.2	.29	.00	.01	.07	3.1	.00	.97
15	93	8.7	5.9	5.5	3.6	.67	.00	.01	.03	2.4	.00	.81
16	86	7.8	5.6	4.9	3.3	.91	.00	.00	.07	2.5	.00	.62
17	81	7.1	5.0	4.7	3.0	.89	.01	.00	.29	2.1	.00	.46
18	75	6.7	4.4	4.5	2.8	.74	.01	.00	6.4	1.5	.01	.33
19	68	6.5	3.8	4.4	2.6	.57	.00	.00	14	.99	.07	.23
20	61	6.2	3.5	4.3	2.3	.46	.00	.00	14	.80	.04	.38
21	53	5.8	3.4	4.3	2.0	.38	.00	.00	8.3	.97	.15	.83
22	46	5.3	3.4	4.2	1.8	.33	.00	.00	4.5	.68	1.4	1.4
23	38	4.9	3.5	4.1	1.5	.26	.00	.00	9.3	.48	5.1	1.3
24	31	4.4	3.4	16	1.4	.20	.00	.00	42	.37	4.1	.96
25	26	3.9	3.2	28	1.2	.15	.00	.00	39	.28	2.3	.67
26	23	3.7	3.0	29	1.0	.13	.00	.00	32	.21	1.5	.57
27	20	3.6	2.8	26	.95	.10	.00	.00	23	.18	1.1	.52
28	18	3.3	2.6	25	.93	.08	.00	.00	14	.17	.78	.51
29	16	3.1	2.6	24	---	.06	.00	.00	8.2	.12	.47	.43
30	14	2.9	2.6	22	---	.05	.00	.07	6.0	.08	.24	.40
31	12	---	2.5	19	---	.04	---	.15	---	.06	.10	---
TOTAL	3259	233.8	96.7	315.6	147.78	13.79	0.10	0.27	222.40	89.19	17.48	78.81
MEAN	105	7.79	3.12	10.2	5.28	.44	.003	.009	7.41	2.88	.56	2.63
MAX	278	14	5.9	29	17	.99	.03	.15	42	13	5.1	18
MIN	12	2.9	1.9	2.2	.93	.04	.00	.00	.03	.06	.00	.22
CFSM	.90	.07	.03	.09	.05	.00	.00	.00	.06	.02	.00	.02
IN.	1.04	.07	.03	.10	.05	.00	.00	.00	.07	.03	.01	.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 1999, BY WATER YEAR (WY)

MEAN	51.0	15.1	28.6	44.8	64.4	72.5	38.3	17.2	17.5	31.1	60.3	97.5
MAX	254	98.3	404	384	662	613	416	217	240	139	249	372
(WY)	1983	1989	1998	1998	1998	1998	1987	1979	1982	1982	1978	1988
MIN	.000	.000	.000	.12	1.03	.14	.000	.000	.000	.000	.000	.035
(WY)	1994	1994	1994	1985	1985	1997	1975	1975	1993	1988	1993	1993

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1975 - 1999	
ANNUAL TOTAL	63175.49		4474.92			
ANNUAL MEAN	173		12.3		44.8	
HIGHEST ANNUAL MEAN					204	1998
LOWEST ANNUAL MEAN					2.58	1992
HIGHEST DAILY MEAN	1280	Feb 21	278	Oct 1	1430	Apr 3 1987
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 3	.00	Apr 5	.00	Apr 1 1975
INSTANTANEOUS PEAK FLOW			289	Oct 1	1450	Apr 3 1987
INSTANTANEOUS PEAK STAGE			7.92	Oct 1	12.62	Apr 3 1987
ANNUAL RUNOFF (CFSM)	1.48		.10		.38	
ANNUAL RUNOFF (INCHES)	20.09		1.42		5.20	
10 PERCENT EXCEEDS	586		21		121	
50 PERCENT EXCEEDS	23		2.1		6.4	
90 PERCENT EXCEEDS	.00		.00		.00	

02303420 CYPRESS CREEK AT WORTHINGTON GARDENS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.83	3.47	2.72	2.66	3.86	2.61	2.22	2.07	2.18	3.05	2.24	2.41
2	7.67	3.38	2.70	2.65	3.76	2.60	2.21	2.07	2.14	3.00	2.25	3.51
3	7.51	3.30	2.67	2.93	3.65	2.58	2.20	2.07	2.16	2.94	2.24	4.10
4	7.36	3.27	2.68	3.25	3.55	2.56	2.20	2.06	2.14	2.87	2.23	3.77
5	7.21	3.55	2.68	3.27	3.46	2.53	2.18	2.05	2.16	2.85	2.22	3.29
6	7.06	3.65	2.68	3.17	3.37	2.50	2.17	2.04	2.21	2.77	2.22	3.08
7	6.91	3.61	2.67	3.08	3.30	2.47	2.17	2.04	2.17	2.67	2.22	3.24
8	6.76	3.53	2.65	3.04	3.25	2.44	2.16	2.04	2.15	2.63	2.21	3.20
9	6.61	3.47	2.64	3.04	3.22	2.42	2.16	2.05	2.20	2.86	2.21	3.11
10	6.48	3.46	2.62	3.21	3.20	2.39	2.15	2.08	2.27	3.53	2.21	3.13
11	6.33	3.44	2.61	3.29	3.18	2.37	2.15	2.09	2.23	3.60	2.19	3.07
12	6.17	3.42	2.60	3.25	3.16	2.35	2.14	2.11	2.22	3.31	2.21	2.96
13	6.03	3.40	2.69	3.18	3.11	2.32	2.13	2.12	2.20	3.04	2.20	2.86
14	5.89	3.37	3.03	3.11	3.05	2.37	2.13	2.10	2.17	2.87	2.18	2.77
15	5.75	3.31	3.08	3.04	2.99	2.53	2.13	2.09	2.12	2.79	2.19	2.72
16	5.64	3.24	3.05	2.98	2.95	2.60	2.13	2.08	2.17	2.82	2.17	2.66
17	5.54	3.19	2.99	2.96	2.92	2.60	2.16	2.06	2.29	2.76	2.15	2.60
18	5.44	3.15	2.93	2.95	2.89	2.55	2.18	2.05	3.16	2.67	2.19	2.54
19	5.31	3.14	2.87	2.93	2.87	2.50	2.16	2.07	3.74	2.57	2.34	2.50
20	5.16	3.11	2.83	2.92	2.83	2.46	2.14	2.08	3.69	2.52	2.32	2.57
21	4.99	3.07	2.81	2.92	2.79	2.43	2.13	2.06	3.36	2.58	2.40	2.73
22	4.82	3.02	2.81	2.91	2.75	2.40	2.11	2.07	3.05	2.50	2.80	2.88
23	4.61	2.98	2.82	2.90	2.72	2.37	2.11	2.08	3.16	2.44	3.29	2.86
24	4.41	2.93	2.81	3.74	2.68	2.33	2.10	2.07	4.72	2.39	3.19	2.78
25	4.23	2.88	2.79	4.31	2.65	2.31	2.10	2.05	4.62	2.36	2.97	2.69
26	4.08	2.86	2.76	4.33	2.62	2.29	2.09	2.04	4.44	2.33	2.85	2.65
27	3.96	2.84	2.74	4.24	2.60	2.27	2.08	2.03	4.09	2.32	2.77	2.64
28	3.86	2.80	2.71	4.20	2.59	2.26	2.07	2.02	3.63	2.32	2.69	2.64
29	3.76	2.78	2.71	4.17	---	2.24	2.08	2.04	3.27	2.29	2.58	2.61
30	3.66	2.75	2.70	4.09	---	2.23	2.08	2.15	3.08	2.27	2.48	2.59
31	3.56	---	2.68	3.97	---	2.22	---	2.23	---	2.26	2.39	---
MEAN	5.63	3.21	2.77	3.31	3.07	2.42	2.14	2.07	2.84	2.72	2.41	2.91
MAX	7.83	3.65	3.08	4.33	3.86	2.61	2.22	2.23	4.72	3.60	3.29	4.10
MIN	3.56	2.75	2.60	2.65	2.59	2.22	2.07	2.02	2.12	2.26	2.15	2.41

WTR YR 1999 MEAN 2.96 MAX 7.83 MIN 2.02

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
NOV							
09...	0825	3.47	11	209	5.40	15.5	3.4
JUL							
14...	0920	2.88	3.1	305	6.43	24.1	2.7
SEP							
27...	0840	2.64	.52	298	6.14	23.9	2.7

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV						
09...	<.01	<.02	.01	1.6	.05	.04
JUL						
14...	<.01	.06	.04	1.8	.06	.02
SEP						
27...	<.01	.06	.03	1.6	.04	.03

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°05'20", long 82°24'33", in SE$^1/_4$ 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^2, 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 fair. Maximum discharge, 490 ft^3/s, Oct. 1, gage height 29.54 ft, occurred on recession following peak of Sept. 27, 1998; maximum independent peak discharge, 59 ft^3/s, July 1, gage height 27.69 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	473	29	7.7	4.9	33	4.1	.11	.00	.00	57	12	8.8
2	428	26	7.0	4.9	32	3.8	.08	.00	.00	57	9.5	12
3	388	23	6.5	11	32	3.5	.04	.00	.00	48	6.3	17
4	349	22	7.4	14	30	3.0	.02	.00	.00	40	3.9	26
5	318	29	7.0	14	28	2.5	.02	.00	.00	35	2.3	26
6	295	31	6.1	13	26	2.2	.01	.00	.00	27	1.6	23
7	276	31	5.4	12	24	2.0	.01	.00	.00	21	.96	22
8	256	29	4.8	11	22	1.6	.00	.00	.00	17	.59	21
9	239	27	4.3	11	20	1.3	.00	.00	.00	14	.36	20
10	225	25	4.0	12	18	1.0	.00	.00	.00	12	.23	18
11	212	22	3.7	12	17	.80	.00	.00	.00	11	.19	17
12	197	20	3.3	11	15	.60	.00	.00	.00	11	.39	16
13	184	18	3.7	11	14	.47	.00	.00	.00	11	.42	15
14	172	17	5.0	11	12	.64	.00	.00	.00	11	.23	13
15	158	15	5.0	10	11	1.3	.00	.00	.00	12	.55	11
16	142	14	5.0	10	9.9	1.6	.00	.00	.00	13	.48	9.0
17	128	14	5.3	10	9.1	1.4	.00	.00	.00	13	.30	6.7
18	115	13	5.1	10	8.7	1.2	.00	.00	.11	13	.22	6.5
19	105	13	5.1	10	8.3	1.0	.00	.00	.14	11	.29	7.1
20	96	13	5.2	9.8	7.8	.91	.00	.00	.25	9.1	.26	10
21	89	12	5.5	9.7	7.3	1.2	.00	.00	.09	6.5	2.1	14
22	82	12	5.7	9.5	6.5	2.9	.00	.00	.06	4.4	8.4	17
23	73	13	5.7	9.5	5.9	3.3	.00	.00	.06	3.1	17	17
24	65	13	5.6	24	5.6	2.6	.00	.00	.56	2.1	21	16
25	59	13	5.4	30	4.9	1.9	.00	.00	.56	1.4	24	14
26	55	12	5.0	33	4.5	1.3	.00	.00	.45	1.6	30	13
27	50	11	5.0	33	4.1	.89	.00	.00	2.4	4.2	25	11
28	45	10	5.0	33	4.0	.61	.00	.00	17	14	19	9.6
29	41	9.1	5.2	33	---	.38	.00	.00	28	23	14	7.7
30	37	8.3	5.4	34	---	.24	.00	.00	36	20	12	6.1
31	33	---	5.0	34	---	.16	---	.00	---	17	11	---
TOTAL	5385	544.4	165.1	495.3	420.6	50.40	0.29	0.00	85.68	540.4	224.57	430.5
MEAN	174	18.1	5.33	16.0	15.0	1.63	.010	.000	2.86	17.4	7.24	14.4
MAX	473	31	7.7	34	33	4.1	.11	.00	36	57	30	26
MIN	33	8.3	3.3	4.9	4.0	.16	.00	.00	.00	1.4	.19	6.1
AC-FT	10680	1080	327	982	834	100	.6	.00	170	1070	445	854
CFSM	1.09	.11	.03	.10	.09	.01	.00	.00	.02	.11	.05	.09
IN.	1.25	.13	.04	.12	.10	.01	.00	.00	.02	.13	.05	.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1999, BY WATER YEAR (WY)

MEAN	98.8	26.8	46.8	70.4	100	111	58.6	18.4	35.9	77.3	152	185
MAX	489	138	612	546	818	804	550	309	311	592	1040	593
(WY)	1983	1998	1998	1998	1998	1998	1987	1979	1981	1974	1965	1979
MIN	.079	.033	.031	.11	2.28	.28	.002	.000	.000	.000	.000	1.90
(WY)	1973	1973	1992	1992	1991	1997	1985	1967	1973	1973	1977	1993

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1965 - 1999	
ANNUAL TOTAL	88430.12		8342.24			
ANNUAL MEAN	242		22.9		81.6	
HIGHEST ANNUAL MEAN					294	1998
LOWEST ANNUAL MEAN					6.50	1992
HIGHEST DAILY MEAN	1320	Feb 24	473	Oct 1	1750	Aug 13 1965
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 21	.00	Apr 8	.00	May 9 1965
INSTANTANEOUS PEAK FLOW			490	Oct 1	2160	Aug 1 1960
INSTANTANEOUS PEAK STAGE			29.54	Oct 1	34.13	Aug 1 1960
ANNUAL RUNOFF (AC-FT)	175400		16550		59140	
ANNUAL RUNOFF (CFSM)	1.51		.14		.51	
ANNUAL RUNOFF (INCHES)	20.56		1.94		6.93	
10 PERCENT EXCEEDS	719		34		231	
50 PERCENT EXCEEDS	59		6.5		19	
90 PERCENT EXCEEDS	.18		.00		.00	

02303800 CYPRESS CREEK NEAR SULPHUR SPRINGS, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.50	26.97	25.93	25.72	27.10	25.66	24.92	24.18	23.96	27.64	26.15	25.88
2	29.40	26.87	25.87	25.72	27.08	25.63	24.88	24.15	23.95	27.64	25.94	26.09
3	29.30	26.77	25.84	26.19	27.06	25.59	24.85	24.12	23.96	27.45	25.73	26.42
4	29.19	26.73	25.90	26.31	27.01	25.55	24.82	24.08	23.94	27.28	25.55	26.85
5	29.10	26.97	25.87	26.32	26.95	25.50	24.81	24.04	23.93	27.15	25.39	26.83
6	29.03	27.03	25.81	26.28	26.87	25.45	24.79	24.01	23.92	26.90	25.30	26.72
7	28.97	27.03	25.76	26.22	26.79	25.42	24.78	23.98	23.89	26.61	25.20	26.69
8	28.90	26.99	25.71	26.17	26.71	25.37	24.76	23.96	23.86	26.40	25.10	26.62
9	28.84	26.92	25.67	26.15	26.63	25.32	24.74	23.93	23.86	26.25	25.03	26.57
10	28.79	26.82	25.65	26.19	26.55	25.27	24.72	23.90	23.88	26.13	24.97	26.50
11	28.73	26.72	25.62	26.19	26.48	25.21	24.70	23.87	23.86	26.05	24.94	26.40
12	28.67	26.64	25.58	26.19	26.40	25.16	24.67	23.85	23.83	26.03	25.03	26.39
13	28.61	26.57	25.61	26.17	26.32	25.11	24.63	23.84	23.79	26.04	25.05	26.32
14	28.55	26.49	25.73	26.15	26.22	25.16	24.61	23.83	23.79	26.07	24.96	26.17
15	28.48	26.41	25.73	26.12	26.15	25.33	24.58	23.86	23.78	26.13	25.08	26.06
16	28.39	26.35	25.74	26.10	26.09	25.37	24.55	23.83	23.79	26.21	25.07	25.90
17	28.31	26.31	25.75	26.09	26.04	25.34	24.56	23.79	24.02	26.20	25.00	25.75
18	28.23	26.28	25.74	26.09	26.00	25.31	24.58	23.77	24.92	26.21	24.96	25.75
19	28.16	26.28	25.74	26.09	25.97	25.28	24.56	23.85	24.92	26.07	25.00	25.78
20	28.09	26.26	25.75	26.08	25.93	25.24	24.53	23.93	25.00	25.91	24.98	26.00
21	28.03	26.24	25.77	26.07	25.89	25.29	24.50	23.92	24.90	25.75	25.32	26.26
22	27.97	26.23	25.78	26.06	25.84	25.53	24.47	23.96	24.86	25.60	25.87	26.45
23	27.87	26.30	25.79	26.06	25.80	25.58	24.44	23.94	24.86	25.48	26.42	26.44
24	27.77	26.29	25.78	26.81	25.77	25.50	24.41	23.92	25.14	25.37	26.62	26.34
25	27.69	26.25	25.76	26.99	25.72	25.41	24.37	23.89	25.14	25.28	26.77	26.22
26	27.59	26.21	25.73	27.08	25.69	25.33	24.34	23.86	25.10	25.30	27.01	26.16
27	27.50	26.15	25.73	27.09	25.65	25.24	24.31	23.83	25.35	25.58	26.81	26.06
28	27.40	26.09	25.73	27.09	25.65	25.16	24.27	23.79	26.43	26.21	26.51	25.94
29	27.29	26.03	25.74	27.10	---	25.08	24.24	23.79	26.92	26.70	26.24	25.82
30	27.19	25.97	25.76	27.11	---	25.02	24.21	23.89	27.17	26.60	26.12	25.72
31	27.08	---	25.73	27.11	---	24.96	---	23.98	---	26.42	26.08	---
MEAN	28.34	26.51	25.75	26.36	26.30	25.33	24.59	23.92	24.56	26.28	25.62	26.24
MAX	29.50	27.03	25.93	27.11	27.10	25.66	24.92	24.18	27.17	27.64	27.01	26.85
MIN	27.08	25.97	25.58	25.72	25.65	24.96	24.21	23.77	23.78	25.28	24.94	25.72

WTR YR 1999 MEAN 25.82 MAX 29.50 MIN 23.77

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
09...	0905	26.93	28	220	5.80	16.0	--	2.4	--	--	--	--
JAN												
13...	0907	26.18	11	236	6.76	10.5	120	5.0	35	2.6	8.7	1.7
JUL												
14...	1000	26.08	12	365	6.59	24.5	--	2.4	--	--	--	--
28...	1233	25.99	9.2	310	6.48	26.3	200	2.4	50	3.4	8.8	1.4
AUG												
16...	0849	25.08	.50	409	7.51	27.0	160	.1	66	4.2	11	3.3
SEP												
27...	0910	26.09	11	266	6.30	24.0	280	1.9	43	2.8	9.4	1.9

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
09...	--	--	--	--	--	<.01	<.02	<.01	1.1	.05	.03	--
JAN												
13...	5.3	19	.10	7.1	183	<.01	<.02	.02	.82	<.02	<.01	56
JUL												
14...	--	--	--	--	--	<.01	.04	.05	1.9	.03	.01	--
28...	39	18	.10	7.8	285	<.01	.04	.02	1.6	.02	<.01	80
AUG												
16...	48	21	.14	8.9	327	<.01	.05	.12	1.9	.05	.03	110
SEP												
27...	2.8	20	.13	8.3	237	<.01	<.02	.02	1.2	.03	.02	72

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL

LOCATION.--Lat 28°01'25", long 82°25'40", in NW$^1/_4$ 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^2, approximately.

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. 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. Those discharges below 0.5 ft^3/s are estimated leakage.

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^3/s, was measured Sept. 9, 1933.

REVISIONS.--Revised daily discharges, in cubic feet per second, for periods in July 1998 are given below. These figures supersede those published in the report for 1998.

July	10....134	July	12....149	July	14....231	July	16....413
	11.... 18		13.... 52		15....480		17....254

JULY 1998	TOTAL 6916.00	MEAN 223	MAX 778	MIN .20	AC-FT 13720
WTR YR 1998	TOTAL 351488.50	MEAN 963			

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1160	3.6	.20	.20	15	.20	.20	.20	.20	2.0	.20	120
2	1060	6.0	.20	49	.20	.20	.20	.20	.20	.20	.20	140
3	1080	6.8	.20	133	43	.20	.20	.20	.20	119	.20	58
4	1150	121	.20	.20	59	.20	.20	.20	.20	202	.20	58
5	1030	99	.20	.20	59	.20	.20	.20	.20	222	.20	18
6	836	47	.20	18	59	.20	.20	.20	.20	151	.20	.20
7	1030	94	.20	17	23	.20	.20	.20	.20	189	.20	.20
8	1360	107	.20	.20	.20	.20	.20	.20	.20	202	.20	.20
9	1090	104	.20	48	43	.20	.20	.20	.20	202	.20	.20
10	820	92	.20	.20	15	.20	.20	.20	.20	292	.20	.20
11	746	74	.20	31	.20	.20	.20	.20	.20	295	.20	.20
12	724	36	.20	13	.20	.20	.20	.20	.20	269	.20	.20
13	578	26	.20	.20	.20	.20	.20	.20	.20	202	.20	.20
14	577	33	.20	.20	.20	.20	.20	.20	.20	220	.20	.20
15	497	39	.20	42	.20	.20	.20	.20	.20	201	.20	.20
16	491	78	.20	20	.20	.20	.20	.20	.20	184	.20	.20
17	526	80	.20	.20	.20	.20	.20	.20	.20	132	.20	.20
18	524	45	.20	.20	.20	.20	.20	.20	.20	132	.20	.20
19	429	49	.20	.20	.20	.20	.20	.20	.20	132	.20	.20
20	395	53	.20	.20	.20	.20	.20	.20	.20	119	.20	124
21	304	64	.20	.20	.20	.20	.20	.20	.20	67	89	.20
22	236	20	.20	.20	.20	.20	.20	.20	.20	48	219	.20
23	236	.36	.20	98	.20	.20	.20	.20	.20	.20	190	.20
24	236	64	.20	287	.20	.20	.20	.20	.20	.20	99	.20
25	184	31	.20	157	.20	.20	.20	.20	.20	.20	109	.20
26	81	.20	.20	78	.20	.20	.20	.20	.20	.20	156	.20
27	.20	.20	.20	59	.20	.20	.20	.20	.20	.20	200	.20
28	.20	.20	.20	162	.20	.20	.20	.20	.20	.20	273	.20
29	.20	.20	.20	211	---	.20	.20	.20	.20	.20	186	.20
30	.20	.20	.20	131	---	.20	.20	.20	.20	.20	124	.20
31	.93	---	.20	182	---	.20	---	.20	---	.20	58	---
TOTAL	17381.73	1373.76	6.20	1738.60	320.00	6.20	6.00	6.20	6.00	3584.00	1707.00	522.80
MEAN	561	45.8	.20	56.1	11.4	.20	.20	.20	.20	116	55.1	17.4
MAX	1360	121	.20	287	59	.20	.20	.20	.20	295	273	140
MIN	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20	.20
AC-FT	34480	2720	12	3450	635	12	12	12	12	7110	3390	1040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1999, BY WATER YEAR (WY)

MEAN	610	203	206	292	319	510	295	79.0	202	607	1055	1117
MAX	2795	1191	1811	1885	1926	4926	2022	740	1853	4647	5011	4371
(WY)	1954	1998	1998	1998	1998	1960	1959	1959	1959	1945	1945	1953
MIN	.17	.10	.050	.025	.020	.020	.020	.014	.000	.10	.20	17.4
(WY)	1973	1992	1992	1992	1992	1992	1992	1985	1985	1993	1993	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1939 - 1999	
ANNUAL TOTAL	256522.19		26658.49			
ANNUAL MEAN	703		73.0		459	
HIGHEST ANNUAL MEAN					1718	1960
LOWEST ANNUAL MEAN					53.3	1990
HIGHEST DAILY MEAN	3160	Feb 18	1360	Oct 8	13500	Mar 21 1960
LOWEST DAILY MEAN	.20	Many Days	.20	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.20	May 13	.20	Nov 26	.00	Jan 1 1985
INSTANTANEOUS PEAK FLOW					14600	Mar 21 1960
INSTANTANEOUS PEAK STAGE					23.07	Sep 26 1997
ANNUAL RUNOFF (AC-FT)	508800		52880		332600	
10 PERCENT EXCEEDS	2050		202		1310	
50 PERCENT EXCEEDS	236		.20		148	
90 PERCENT EXCEEDS	.20		.20		.20	

02304500 HILLSBOROUGH RIVER NEAR TAMPA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.62	22.59	22.33	22.40	22.28	22.14	20.86	18.93	19.01	21.82	21.97	22.33
2	21.59	22.60	22.29	22.40	22.46	22.14	20.74	19.00	18.91	22.10	21.93	22.24
3	21.79	22.60	22.25	22.32	22.54	22.11	20.63	19.07	18.77	22.29	21.84	22.22
4	21.79	22.61	22.24	22.40	22.52	22.08	20.58	19.08	18.65	22.26	21.79	22.19
5	21.54	22.61	22.29	22.46	22.50	22.06	20.52	18.94	18.54	22.22	21.82	22.17
6	21.54	22.69	22.32	22.49	22.46	22.02	20.45	18.75	18.41	22.25	21.81	22.27
7	21.68	22.70	22.34	22.43	22.44	21.99	20.31	18.64	18.31	22.32	21.79	22.37
8	21.73	22.69	22.35	22.44	22.49	21.96	20.21	18.62	18.36	22.34	21.77	22.42
9	21.62	22.68	22.36	22.43	22.48	21.89	20.14	18.66	18.38	22.36	21.77	22.45
10	21.79	22.66	22.37	22.44	22.42	21.79	20.15	18.75	18.47	22.44	21.80	22.44
11	21.95	22.63	22.40	22.44	22.43	21.75	20.14	18.92	18.51	22.37	21.86	22.42
12	21.98	22.61	22.37	22.38	22.43	21.70	20.07	18.88	18.59	22.29	22.07	22.38
13	22.08	22.65	22.34	22.41	22.40	21.66	19.98	18.91	18.58	22.28	22.23	22.31
14	22.06	22.66	22.37	22.48	22.37	21.69	19.85	18.98	18.70	22.26	22.23	22.22
15	22.05	22.67	22.36	22.47	22.32	21.75	19.76	19.06	18.82	22.24	22.28	22.12
16	22.22	22.67	22.35	22.35	22.29	21.73	19.66	18.95	18.97	22.16	22.27	22.02
17	22.23	22.64	22.33	22.31	22.31	21.71	19.60	18.82	19.22	22.14	22.26	21.92
18	22.15	22.64	22.32	22.27	22.28	21.69	19.57	18.75	19.63	22.15	22.26	21.92
19	22.06	22.69	22.29	22.23	22.24	21.67	19.56	18.88	19.70	22.14	22.28	22.03
20	22.03	22.67	22.27	22.21	22.21	21.65	19.60	18.93	19.81	22.12	22.30	22.03
21	21.98	22.58	22.25	22.27	22.21	21.62	19.55	18.93	19.89	22.15	22.38	21.95
22	22.08	22.52	22.23	22.33	22.21	21.58	19.45	19.04	20.11	22.17	22.36	22.00
23	22.09	22.55	22.26	22.39	22.22	21.48	19.43	19.17	20.25	22.21	22.27	22.04
24	22.06	22.51	22.28	22.46	22.20	21.38	19.41	19.26	20.37	22.20	22.18	22.06
25	21.99	22.42	22.32	22.40	22.19	21.28	19.40	19.22	20.53	22.16	22.24	22.12
26	22.06	22.42	22.35	22.40	22.17	21.25	19.43	19.11	20.76	22.11	22.22	22.24
27	22.25	22.44	22.38	22.49	22.14	21.20	19.37	18.98	21.00	22.10	22.28	22.24
28	22.38	22.44	22.40	22.51	22.12	21.14	19.20	18.83	21.21	22.08	22.19	22.23
29	22.47	22.41	22.43	22.37	---	21.09	19.06	18.73	21.38	22.05	22.15	22.19
30	22.52	22.38	22.43	22.30	---	21.05	18.98	18.89	21.57	22.02	22.19	22.13
31	22.56	---	22.41	22.24	---	20.98	---	19.04	---	22.00	22.27	---
MEAN	22.00	22.59	22.33	22.38	22.33	21.65	19.86	18.93	19.45	22.19	22.10	22.19
MAX	22.56	22.70	22.43	22.51	22.54	22.14	20.86	19.26	21.57	22.44	22.38	22.45
MIN	21.54	22.38	22.23	22.21	22.12	20.98	18.98	18.62	18.31	21.82	21.77	21.92

CAL YR 1998 MEAN 21.99 MAX 22.70 MIN 20.13
WTR YR 1999 MEAN 21.50 MAX 22.70 MIN 18.31

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL

LOCATION.--Lat 28°01'15", long 82°26'05", in NE$^1/_4$ 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^2, approximately.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--December 1996 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, 7.13 ft, Dec. 27, 1997; minimum, 2.24 ft below NGVD, Feb. 14, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.05 ft, Jan. 3; minimum, 2.24 ft below NGVD, Feb. 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	3.69	2.29	2.20	-.52	1.75	-1.58	1.99	-1.96	2.29	-1.05	2.18	-1.05
2	---	---	2.38	-.52	1.60	-1.99	4.49	-1.28	2.82	-.43	2.26	-.82
3	---	---	2.63	-.61	1.92	-1.79	5.05	-1.25	2.23	-.52	2.74	-.27
4	---	---	2.77	-.78	2.10	-1.62	1.95	-1.78	1.98	-.50	1.35	-1.24
5	---	---	1.44	-1.84	1.94	-1.69	.81	-2.14	1.58	-.71	1.44	-.82
6	---	---	1.11	-1.53	2.00	-1.53	.82	-1.65	1.84	-.57	1.89	-.54
7	---	---	1.52	-1.08	2.12	-1.13	1.05	-1.35	1.90	-.32	1.56	-1.13
8	---	---	1.42	-.99	1.91	-1.05	1.46	-.37	1.81	-.03	1.17	-1.37
9	---	---	2.02	-.66	1.12	-1.19	2.88	.01	1.87	-.29	2.61	-.92
10	---	---	1.86	-.28	.88	-1.24	.87	-.89	1.54	-.77	1.49	-.13
11	---	---	1.66	-.49	1.01	-.97	.64	-1.85	1.86	-1.26	1.40	-.67
12	---	---	1.30	-.78	1.66	-.76	1.67	-1.21	2.09	-1.07	1.52	-1.04
13	---	---	1.59	-.59	1.67	-.33	1.77	-.84	2.11	-2.06	2.41	-1.26
14	---	---	1.87	-.27	1.54	-.69	2.45	-1.24	1.01	-2.24	3.24	-.01
15	---	---	1.83	-.48	1.26	-1.47	2.29	-.94	1.52	-1.91	2.46	-.56
16	---	---	1.94	-.54	1.48	-1.65	2.00	-1.49	1.88	-1.20	1.28	-1.86
17	---	---	2.19	-.67	1.53	-1.25	2.16	-1.22	2.55	-.69	1.51	-1.11
18	---	---	1.87	-.95	1.84	-1.86	2.12	-1.05	3.14	-.19	1.90	-1.01
19	---	---	1.71	-1.23	2.05	-1.19	2.14	-1.33	2.31	-.18	1.96	-.98
20	---	---	1.98	-1.23	2.12	-1.47	1.94	-1.15	1.56	-.65	2.10	-.94
21	1.86	-.13	1.88	-1.06	2.23	-1.27	1.78	-.99	1.46	-.64	2.31	-.94
22	1.66	-.44	1.29	-1.66	1.97	-.94	2.19	-.26	1.19	-1.17	1.76	-.71
23	.21	-.54	1.61	-1.22	1.66	-1.34	3.65	.14	1.94	-1.35	1.85	-1.23
24	1.12	-.48	1.45	-.95	1.74	-.89	3.77	-.06	1.65	-1.08	1.60	-1.22
25	1.37	-.85	1.59	-1.07	1.59	-.94	1.15	-.54	1.86	-1.23	1.74	-1.09
26	1.50	-.79	1.36	-1.26	1.44	-1.35	1.36	-.91	2.10	-1.36	1.27	-1.15
27	1.51	-1.05	.96	-1.27	1.25	-.97	2.05	-1.26	2.08	-1.21	1.05	-1.61
28	1.87	-.53	1.14	-1.03	2.01	-1.09	2.23	-.95	2.45	-.68	1.22	-1.89
29	2.00	-.43	1.54	-1.03	2.77	-.72	2.33	-.52	---	---	1.49	-1.34
30	2.30	-.42	1.60	-1.09	2.84	-1.13	2.46	-1.08	---	---	1.62	-1.09
31	2.08	-.62	---	---	1.76	-1.64	2.46	-.27	---	---	1.92	-.67
MONTH	---	---	2.77	-1.84	2.84	-1.99	5.05	-2.14	3.14	-2.24	3.24	-1.89

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.20	-.54	1.56	-1.35	2.11	-1.29	2.49	-1.15	2.19	-.58	2.12	-.44
2	1.71	-.97	1.91	-1.10	2.21	-1.22	1.94	-1.14	1.72	-.55	1.95	-.53
3	1.75	-1.12	2.14	-1.00	1.99	-1.15	2.30	-1.33	2.19	-.30	1.95	-.60
4	1.88	-.95	2.76	-1.00	1.76	-1.26	2.26	-.43	1.83	-.39	2.42	-.41
5	1.87	-.96	3.10	-.43	1.70	-1.17	1.63	-.14	2.42	-.25	2.61	-.43
6	1.93	-.98	2.76	-.41	1.17	-1.14	1.91	-.29	3.10	-.15	3.62	-.38
7	1.75	-.99	2.41	-.29	1.05	-1.28	2.75	-.03	2.46	-.91	3.00	-.75
8	1.97	-.85	1.97	-.52	1.36	-.96	2.26	.01	2.54	-1.25	3.14	-.38
9	2.04	-.71	1.67	-.48	1.67	-.89	2.46	-.42	2.87	-.94	2.80	-.33
10	1.61	-.38	1.81	-.73	2.30	-.77	2.70	-.07	3.05	-.83	2.59	-.23
11	1.76	-.78	2.08	-.69	2.14	-1.40	2.78	-.09	2.88	-.77	2.40	-.22
12	1.69	-.68	2.14	-.52	2.49	-1.38	2.88	-.51	2.69	-1.00	2.01	-.33
13	1.47	-1.35	2.47	-.74	2.40	-1.30	2.94	-.50	2.28	-.69	1.62	-.53
14	2.10	-.75	2.87	-.70	2.45	-1.53	2.76	-.50	2.48	-.58	1.08	-1.10
15	3.58	.21	2.27	-1.50	2.51	-1.40	2.58	-.51	2.52	-.17	1.44	-.62
16	2.31	-1.32	2.20	-1.73	3.14	-1.39	2.14	-.54	1.81	-.31	2.32	.03
17	1.51	-1.68	2.32	-1.65	3.38	-.98	1.99	-.66	1.78	-.55	2.05	-.22
18	1.11	-1.78	2.43	-1.66	2.32	-.75	1.89	-.55	2.10	-.35	2.58	-.22
19	1.50	-1.80	2.61	-1.48	2.07	-.99	1.44	-.39	2.11	-.28	2.99	.22
20	1.95	-1.76	2.09	-1.01	1.30	-.92	1.71	-.18	2.01	-.02	3.06	1.21
21	1.97	-1.46	2.11	-1.00	1.65	-.58	1.45	-.61	2.10	-.37	3.06	-.31
22	2.04	-1.07	1.57	-1.18	1.37	-.80	1.72	-.64	2.17	-.19	2.30	-.47
23	1.28	-1.12	1.41	-1.04	1.50	-.58	1.97	-.71	2.49	-.15	2.37	-.39
24	1.31	-1.23	1.79	-.41	2.07	-.92	2.46	-.58	2.38	-.63	2.86	-.29
25	2.01	-.91	1.84	-.52	2.17	-1.11	2.40	-.78	2.77	-.30	3.02	-.26
26	1.87	-.62	1.90	-.66	1.96	-1.06	2.28	-1.09	2.67	-.56	2.83	-.16
27	2.30	-.15	1.86	-1.01	2.38	-1.09	2.43	-1.11	2.56	-.08	2.52	-.36
28	2.42	-.63	1.90	-1.17	2.20	-1.20	2.45	-.90	2.53	-.11	2.47	-.49
29	2.26	-.72	1.77	-1.47	2.48	-1.09	2.61	-.80	2.51	-.13	2.49	-.23
30	2.12	-1.24	1.98	-1.66	2.77	-1.04	2.35	-.84	2.52	-.10	2.53	-.35
31	---	---	2.28	-1.11	---	---	2.52	-.73	1.96	-.68	---	---
MONTH	3.58	-1.80	3.10	-1.73	3.38	-1.53	2.94	-1.33	3.10	-1.25	3.62	-1.10

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1996 to current year.
INSTRUMENTATION.--Water-quality monitor consisting of specific conductance and temperature probes located near the surface and 1.0 ft above the bottom.
REMARKS.--Interruptions in record were due to malfunctions of the instruments.
EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 17,500 microsiemens, May 5, 1999; bottom probe maximum, 18,900 microsiemens, May 5, 1999; top probe minimum, 82 microsiemens, Dec. 18, 1997; bottom probe minimum, 87 microsiemens, Dec. 18, 1997.

TEMPERATURE.--Top probe maximum, 33.5°C, June 18, 1998; bottom probe maximum, 31.8°C, July 20, 1999; top probe minimum, 9.9°C, June 18, 1997; bottom probe minimum, 11.2°C, Jan. 6, 1999.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 17,500 microsiemens, May 5; bottom probe maximum, 18,900 microsiemens, May 5; top probe minimum, 113 microsiemens, Oct. 25; bottom probe minimum, 108 microsiemens, Oct. 1.

TEMPERATURE.--Top probe maximum, 31.7°C, Aug. 8; bottom probe maximum, 31.8°C, July 20; top probe minimum, 12.9°C, Jan. 6; bottom probe minimum, 11.2°C, Jan. 6.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	128	122	3530	1190	3030	546	8370	5990	362	354	8200	5410
2	---	---	3870	505	3400	742	8620	1780	371	329	8430	5420
3	---	---	3810	586	3660	1060	1780	396	380	352	8320	5250
4	---	---	3430	125	3670	1000	496	419	354	346	7820	5640
5	---	---	281	129	3600	1380	503	381	350	342	7620	5420
6	---	---	293	126	3860	1360	515	424	344	339	7500	5510
7	---	---	283	130	4040	1590	425	378	346	341	7060	5470
8	---	---	283	132	4130	1680	580	409	357	345	6720	5420
9	---	---	286	239	3920	1190	1060	398	357	338	7280	5270
10	---	---	293	280	4360	1340	422	192	346	337	6920	5170
11	---	---	301	289	4140	1380	574	193	1110	344	6830	5420
12	---	---	323	245	4820	1490	420	317	3220	388	7050	5010
13	---	---	321	283	5450	1460	567	199	3340	903	9180	5200
14	---	---	317	298	5320	1780	3510	361	4200	1610	11500	5940
15	---	---	331	306	5700	1070	3690	424	6390	1410	9850	6820
16	---	---	325	308	6000	2750	843	364	7500	2740	9150	6190
17	---	---	342	235	6300	2100	3200	166	8050	3340	9250	6820
18	---	---	351	210	7310	3830	4240	947	8620	5060	9510	7300
19	---	---	369	153	7770	2040	4760	1540	7830	5660	9720	7590
20	---	---	336	163	7840	2170	5260	2700	7340	3300	9540	7860
21	246	207	339	321	8200	5940	5650	3190	6970	3440	9510	7860
22	---	---	346	314	8400	5940	6380	3820	6270	4550	9270	8000
23	---	---	363	318	8520	6080	6630	510	6490	4330	9020	7670
24	248	236	421	315	8510	6250	510	379	6080	4180	8740	7730
25	250	113	349	326	8400	5480	381	367	6130	4020	8560	7230
26	259	189	370	346	8160	6500	381	361	6700	4060	8300	7340
27	275	257	705	360	8020	7190	369	346	7600	4380	8240	7070
28	502	274	1530	265	8480	6110	355	349	8640	4760	8670	6910
29	1800	219	2350	680	8500	6780	357	351	---	---	9250	6610
30	1820	319	2990	505	8530	6620	360	354	---	---	9430	7010
31	3150	302	---	---	8000	5200	358	353	---	---	10100	7560
MONTH	---	---	3870	125	8530	546	8620	166	8640	329	11500	5010

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10300	8290	15700	14000	11100	10100	7400	4130	8690	3640	327	302
2	10100	8260	15300	14000	11200	10400	6450	4280	7700	6560	317	301
3	9860	8320	15200	14300	11300	10400	6060	395	7830	6920	313	308
4	9800	8350	16400	14200	11000	10100	407	375	7800	6890	312	305
5	9580	8350	17500	14700	10900	10000	395	373	8190	7040	319	305
6	9330	8280	17200	15200	10900	10200	395	380	8560	6870	1260	313
7	9180	8240	16900	15800	11100	10400	471	391	8180	6680	1670	369
8	9030	8210	16200	15700	11300	10600	450	388	8350	6960	3090	768
9	9210	8340	16100	15400	12100	4950	400	391	8720	6810	3880	1660
10	9820	8180	15800	6020	10200	7210	398	388	8800	7070	4100	2340
11	10200	8100	12400	9770	10300	8440	393	376	8720	3990	4200	2600
12	10600	8340	13400	11400	10600	7400	381	366	7570	1240	3960	2740
13	11500	8390	15000	12500	9900	3740	366	348	4510	4050	3910	2720
14	13100	9020	15600	12100	7310	4460	359	333	4800	4290	3550	2650
15	14800	12100	14400	12900	7010	5650	339	327	4370	3750	3740	2840
16	14200	11200	14200	13000	6570	5810	337	320	4200	3880	4210	2920
17	13300	9610	14000	13100	5930	3960	331	304	4190	3900	4280	3090
18	11800	10000	13700	6240	4520	4000	316	306	4120	3410	4920	2940
19	11700	10200	12500	11600	4180	3800	315	298	3740	1180	7300	4270
20	11300	10100	12000	11700	3860	3510	302	291	2610	1760	6490	283
21	11100	10200	12400	5280	3630	1420	300	293	2620	309	349	289
22	11000	10400	11100	10800	2280	545	296	290	317	139	611	335
23	10900	10300	11700	10800	1260	799	366	296	298	254	1780	483
24	11700	10300	12700	10900	1460	1130	1900	363	315	292	3650	1200
25	13000	10600	13600	11900	1570	1320	4440	1310	340	284	4960	1990
26	14600	11200	13600	12500	2380	1400	5800	2180	307	297	5270	2840
27	16500	13100	13600	12500	2820	1560	6830	3580	310	300	5420	3330
28	16800	13600	13500	12100	4430	2170	7930	4670	315	305	5550	3850
29	16700	14200	13600	12200	5700	3190	8940	5520	313	308	5570	4320
30	16400	14000	14000	6810	6910	3790	9120	6270	313	309	5640	4490
31	---	---	10800	9910	---	---	9300	6970	318	308	---	---
MONTH	16800	8100	17500	5280	12100	545	9300	290	8800	139	7300	283

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	114	108	4470	3650	3200	2400	8160	7080	359	353	8730	7820
2	---	---	4800	3950	3280	2520	8630	7560	368	356	8710	7880
3	---	---	4780	3820	3540	2950	7560	715	372	348	8550	7880
4	---	---	4260	436	3800	3410	715	499	352	342	7980	7340
5	---	---	436	285	3730	3240	499	405	346	337	7950	7570
6	---	---	302	289	3780	3360	408	362	339	330	7920	7440
7	---	---	298	294	3990	3420	366	300	335	330	7560	7010
8	---	---	298	292	3980	3780	481	282	345	334	7290	6300
9	---	---	300	295	3900	3580	1110	413	350	339	7360	6700
10	---	---	298	291	3860	3730	482	285	344	334	7330	7090
11	---	---	300	293	3980	3550	308	279	1360	336	7190	6910
12	---	---	303	297	5400	3960	294	276	3750	1050	7710	6720
13	---	---	313	302	6000	5230	467	269	3970	2830	10900	7570
14	---	---	315	311	5670	5100	3020	315	5340	3030	11700	10900
15	---	---	314	300	5430	4780	3620	1010	6470	5340	11100	9560
16	---	---	317	299	5710	4270	1010	400	7700	6470	9610	9190
17	---	---	321	314	9370	4940	2570	974	8890	7620	9520	9240
18	---	---	327	317	9160	6490	4010	2570	8960	8130	9870	9440
19	---	---	331	323	8290	7200	4450	3990	8390	7720	9990	9800
20	---	---	331	321	8080	7470	4810	4430	7720	7180	9810	9620
21	232	225	332	325	8400	7770	5360	4770	7420	7150	9720	9620
22	232	226	340	332	8450	7770	6090	5350	7250	5950	9640	9050
23	244	229	347	340	8460	7760	9380	6080	6710	6320	9390	8950
24	241	236	384	347	8650	8000	9080	587	6760	6280	9230	8920
25	240	236	362	344	8460	7990	587	418	6760	6310	8940	8750
26	248	237	352	344	8080	7310	549	386	7320	6260	8960	8670
27	265	243	720	349	7860	7170	388	368	8280	7200	8700	8320
28	535	263	1640	619	8410	7280	370	355	8840	8280	8880	8170
29	2160	463	2520	1230	8540	8030	364	352	---	---	9260	7020
30	3020	662	2930	2360	8600	7380	364	350	---	---	9840	9260
31	3840	2370	---	---	7850	6710	355	350	---	---	10300	9520
MONTH	---	---	4800	285	9370	2400	9380	269	8960	330	11700	6300

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	10400	10000	16700	16200	13200	12000	7620	5780	---	---	399	309
2	10100	9820	16500	16000	13600	12500	6660	5480	---	---	329	304
3	9980	9730	16400	15800	13800	13000	6430	916	---	---	327	308
4	9880	9570	17900	16000	13600	13300	916	487	---	---	325	305
5	9690	9370	18900	17200	13600	13100	520	409	---	---	331	305
6	9460	9250	18600	18000	14400	13100	429	387	---	---	1350	317
7	9300	9050	18300	17700	14700	14200	512	382	---	---	1820	384
8	9130	8920	17700	17000	15600	14300	411	386	---	---	3400	851
9	9090	8770	17100	16600	16800	14200	414	394	---	---	4160	2650
10	9800	8980	16600	12600	14400	13000	409	392	---	---	4410	3580
11	10200	9750	12600	11400	14700	13600	398	385	---	---	4440	3510
12	10600	10200	13700	12200	15200	13800	392	378	8030	3440	4240	3480
13	11500	10300	15600	13700	14500	12400	392	375	5530	4450	4190	3420
14	12800	11500	16600	14600	12400	8810	407	358	4870	4450	3700	3070
15	14400	12800	14800	13300	9000	8320	365	347	4610	4020	3970	3080
16	14400	13500	14300	12900	8560	7880	358	341	4420	4010	4610	3820
17	13500	12300	13800	12700	8000	6880	351	333	4330	4050	4570	4030
18	12300	11500	13300	12400	6970	5630	342	330	4260	3830	5580	4400
19	11700	11200	12500	11100	5660	4870	339	324	3880	2120	7890	5580
20	11500	11100	11200	11000	4920	4120	328	310	2850	2100	7270	504
21	11200	11000	11700	10900	4180	2860	321	310	2660	837	504	413
22	11000	10900	11100	10600	2860	1380	313	305	877	152	629	393
23	11000	10800	11800	10500	1380	1060	367	311	353	302	1870	629
24	11900	10900	13000	11700	1360	1110	2030	367	337	303	4050	1870
25	13500	11900	14100	13000	1570	1280	4750	1920	444	308	5310	3350
26	14900	13500	14600	14000	2890	1510	---	---	314	300	5580	4260
27	17000	14900	14900	14200	3090	1750	---	---	315	301	5850	4920
28	16900	15900	15000	14500	4750	2870	8610	6620	328	300	6000	5240
29	17300	16000	15400	14400	5970	4300	9560	7790	315	305	5940	5450
30	17100	16600	16400	14100	6900	5450	9740	8560	321	305	5940	5480
31	---	---	14100	12100	---	---	---	---	338	308	---	---
MONTH	17300	8770	18900	10500	16800	1060	---	---	---	---	7890	304

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	27.1	26.2	---	---	22.6	20.8	19.1	16.4	21.5	20.6	20.4	19.1
2	---	---	---	---	22.9	21.1	20.6	17.8	21.8	20.7	21.1	17.8
3	---	---	---	---	22.9	21.4	19.4	18.4	22.5	21.3	20.4	19.1
4	---	---	24.3	23.3	22.9	21.8	19.1	17.5	22.6	21.1	19.8	17.2
5	---	---	23.3	23.0	23.3	22.5	---	---	22.9	20.7	19.3	16.4
6	---	---	---	---	23.3	22.5	14.5	12.9	22.5	20.4	20.1	17.8
7	---	---	23.3	20.5	23.3	22.5	15.8	14.2	21.5	20.4	20.4	19.1
8	---	---	22.9	20.5	23.3	22.5	16.7	14.8	21.5	20.4	20.4	18.8
9	---	---	22.9	21.4	23.3	22.5	17.0	15.6	22.9	21.1	20.1	18.8
10	---	---	23.3	21.8	23.3	22.5	17.2	14.2	22.5	20.8	20.8	18.7
11	---	---	23.7	22.2	23.7	22.5	17.0	15.1	21.8	21.2	20.8	19.7
12	---	---	22.7	22.5	23.3	21.5	15.9	14.2	22.6	21.4	20.8	19.1
13	---	---	25.1	23.3	23.7	22.9	16.1	14.0	22.6	20.0	21.5	19.1
14	---	---	24.9	23.7	23.3	22.5	17.9	15.3	20.5	18.0	21.5	20.4
15	---	---	24.9	22.6	---	---	18.2	16.7	19.7	17.0	21.1	18.9
16	---	---	24.5	22.6	---	---	17.5	15.6	20.6	18.6	20.1	13.3
17	---	---	24.5	22.5	---	---	19.1	17.0	20.7	18.5	20.8	17.5
18	---	---	25.8	22.6	18.2	15.8	20.4	18.7	21.5	19.6	21.5	18.9
19	---	---	26.2	23.7	19.1	15.6	21.1	19.4	21.5	20.1	22.5	19.3
20	26.2	25.3	26.1	23.6	20.1	18.0	21.5	19.7	21.2	19.9	23.0	20.7
21	26.7	24.6	24.9	22.2	21.5	20.1	22.9	20.1	20.1	17.0	22.9	21.4
22	25.8	24.5	24.3	22.5	21.8	21.1	22.4	20.4	---	---	22.0	20.5
23	---	---	24.5	23.3	22.2	21.4	22.6	21.1	17.0	15.9	22.5	20.4
24	24.1	22.9	24.5	23.7	22.6	21.4	21.5	19.7	17.3	15.6	22.9	20.7
25	24.5	22.2	24.5	23.2	22.9	21.4	20.8	19.4	20.4	15.8	23.3	19.1
26	24.1	22.4	24.1	23.3	22.2	20.7	21.1	19.0	18.5	15.6	22.9	21.8
27	23.7	22.8	---	---	21.5	20.1	21.5	19.1	19.4	16.7	22.9	20.6
28	24.1	22.9	---	---	20.7	19.1	21.1	19.8	20.4	18.2	22.9	20.1
29	24.6	23.3	---	---	20.8	18.9	21.5	20.1	---	---	24.0	20.4
30	23.7	22.5	22.1	21.2	20.8	19.1	21.8	20.4	---	---	23.3	21.4
31	25.3	22.9	---	---	19.5	18.1	21.5	20.4	---	---	23.0	21.4
MONTH	---	---	---	---	---	---	---	---	---	---	24.0	13.3

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	24.8	21.8	24.9	22.9	28.9	26.7	28.1	26.2	30.6	28.1	30.6	28.5
2	25.0	23.3	24.3	22.2	28.5	27.1	28.1	26.6	30.3	29.0	30.8	28.5
3	26.1	23.3	25.0	22.9	29.6	27.1	30.1	27.1	30.1	29.0	30.6	27.7
4	26.2	24.5	25.8	23.3	29.0	27.8	29.6	28.0	30.1	28.5	30.1	27.6
5	26.7	24.9	26.2	24.5	28.8	27.7	30.1	28.0	29.9	28.0	30.6	27.6
6	26.7	25.3	27.1	25.3	28.6	27.2	30.1	28.0	29.6	28.0	28.5	27.4
7	27.1	25.8	27.2	26.2	28.6	27.3	30.6	28.5	31.2	28.0	27.5	26.6
8	27.1	25.7	27.6	26.2	28.0	27.1	29.6	28.5	31.7	28.5	27.6	26.6
9	26.9	25.8	27.7	26.2	27.1	25.4	29.6	28.0	30.1	29.0	28.1	26.2
10	27.1	25.9	27.1	24.1	29.0	25.3	30.1	28.0	30.3	28.5	28.5	26.6
11	27.6	25.9	26.7	24.9	29.1	26.6	30.1	28.5	29.6	27.1	28.5	26.6
12	28.1	26.2	26.2	24.9	28.6	27.1	29.1	28.5	28.1	25.8	28.5	27.4
13	26.7	24.5	27.7	24.9	29.1	26.2	30.0	28.0	29.6	27.0	28.6	27.3
14	27.1	23.9	27.1	25.9	28.8	26.6	29.6	28.0	30.1	28.0	28.0	26.9
15	26.2	25.6	28.5	26.2	29.0	27.6	30.1	28.0	30.3	28.0	27.1	26.2
16	26.2	24.9	28.1	26.2	28.6	28.0	30.6	28.0	30.6	28.5	27.6	26.2
17	25.4	21.7	27.6	26.2	28.1	26.6	30.6	28.5	30.6	29.2	28.0	26.2
18	22.9	21.2	28.1	26.2	27.2	26.2	30.6	28.5	30.1	28.5	28.1	26.6
19	22.9	21.1	28.1	26.3	27.1	26.2	31.2	28.5	30.6	26.3	27.2	26.2
20	23.3	21.3	28.1	26.2	27.6	26.2	31.2	28.5	29.1	27.1	26.7	26.2
21	23.8	21.8	28.2	25.3	27.2	25.1	30.6	28.1	30.6	27.5	27.1	26.2
22	24.9	22.9	27.5	26.2	27.1	25.8	30.1	28.0	29.6	26.2	26.7	25.8
23	25.4	23.9	27.1	26.2	28.0	25.8	30.1	29.0	29.6	28.1	26.2	24.9
24	26.3	24.5	27.8	26.2	28.5	26.2	31.2	28.5	30.6	28.1	26.2	24.9
25	28.1	24.9	29.6	26.2	28.5	26.6	30.6	28.5	29.6	28.5	26.2	24.9
26	28.1	26.2	30.2	27.1	28.1	27.1	29.6	28.4	29.6	28.5	26.2	25.1
27	29.1	26.6	30.6	27.6	29.1	26.6	30.1	28.0	30.1	28.0	26.7	25.3
28	28.6	27.1	30.1	28.0	28.5	27.1	30.6	28.0	30.1	28.5	27.6	26.2
29	28.6	26.6	29.6	27.7	28.1	26.7	30.6	28.1	29.6	28.5	27.6	26.6
30	27.1	24.9	28.6	27.1	27.7	26.6	30.6	28.5	30.1	28.5	28.1	26.7
31	---	---	28.5	26.6	---	---	30.6	29.0	30.6	28.5	---	---
MONTH	29.1	21.1	30.6	22.2	29.6	25.1	31.2	26.2	31.7	25.8	30.8	24.9

02304510 HILLSBOROUGH RIVER AT ROWLETT PARK DRIVE NEAR TAMPA, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	27.1	26.2	23.8	22.9	21.9	20.7	19.1	17.2	21.5	20.7	20.5	19.7
2	---	---	24.1	23.3	22.2	20.7	20.1	18.9	21.6	20.7	20.5	19.7
3	---	---	24.2	23.9	22.6	21.4	19.7	19.0	22.2	21.1	20.5	19.7
4	---	---	24.2	23.3	23.0	22.3	19.0	16.2	22.6	21.0	19.9	18.1
5	---	---	23.4	22.5	23.4	22.5	16.4	13.2	22.9	20.7	19.5	17.8
6	---	---	22.6	20.7	23.4	22.5	14.8	11.2	22.2	20.4	19.8	18.2
7	---	---	22.6	20.4	23.4	22.5	15.3	14.2	21.5	20.4	20.2	19.1
8	---	---	22.9	20.8	23.4	22.5	15.9	14.8	21.5	20.4	20.5	18.8
9	---	---	22.9	21.3	23.4	22.3	16.7	15.6	22.8	21.1	20.2	19.1
10	---	---	23.3	21.4	23.3	22.5	16.5	15.8	21.6	20.7	20.9	19.9
11	---	---	23.5	22.1	23.4	22.5	15.9	13.5	21.9	21.1	20.6	19.5
12	---	---	23.0	21.8	23.7	22.5	15.4	14.5	22.6	21.5	20.8	19.4
13	---	---	25.0	22.7	23.8	23.3	15.8	14.5	22.7	20.4	21.6	20.0
14	---	---	25.0	23.7	23.6	21.8	18.2	15.6	20.6	17.9	21.6	21.2
15	---	---	24.1	22.5	22.1	20.2	18.4	16.4	19.9	18.2	21.5	19.7
16	---	---	24.1	22.9	20.5	17.5	17.4	15.8	20.1	19.4	19.8	17.4
17	---	---	24.1	22.5	19.2	16.2	19.2	17.4	20.7	20.1	20.5	19.1
18	---	---	24.8	22.5	18.9	16.9	20.1	19.1	21.2	20.4	20.9	19.7
19	---	---	25.4	24.0	19.2	18.1	20.8	19.8	21.5	20.7	21.6	20.4
20	26.2	25.3	25.8	23.3	20.2	19.1	21.5	20.7	21.5	20.4	22.6	21.0
21	26.3	24.9	24.7	22.9	21.4	20.1	21.9	21.1	20.9	19.1	22.6	21.4
22	25.8	24.5	24.1	23.3	21.9	21.1	22.2	21.4	19.2	16.4	21.9	20.7
23	24.6	23.3	24.1	23.3	22.3	21.4	22.6	21.2	18.0	15.5	21.6	20.1
24	24.1	22.9	24.5	23.7	22.6	21.8	21.5	19.7	17.1	15.7	22.2	20.4
25	24.1	22.3	24.5	23.3	22.9	22.0	20.8	19.4	17.7	15.8	22.5	20.6
26	24.1	22.5	24.1	23.3	22.6	20.7	20.8	19.1	18.2	16.1	22.7	21.0
27	23.8	22.6	23.8	22.8	20.8	20.0	21.5	19.4	19.2	17.8	22.5	20.9
28	23.8	22.6	22.9	21.8	20.8	19.4	21.1	20.1	20.2	19.1	22.2	20.4
29	24.1	22.9	22.2	20.7	21.1	19.8	21.1	20.1	---	---	22.6	20.6
30	24.1	23.3	21.8	20.7	21.1	19.7	21.8	20.4	---	---	23.0	22.2
31	23.8	22.9	---	---	19.8	16.9	21.5	20.4	---	---	23.0	22.5
MONTH	---	---	25.8	20.4	23.8	16.2	22.6	11.2	22.9	15.5	23.0	17.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	23.7	22.5	25.0	23.3	28.1	27.1	28.2	26.7	30.7	29.6	30.6	29.2
2	24.2	23.3	23.7	22.2	28.2	27.1	28.2	27.1	30.7	29.6	31.2	29.0
3	25.0	23.7	24.5	22.8	28.5	27.1	30.3	27.1	30.7	29.6	31.0	28.0
4	25.9	24.5	25.1	23.3	28.9	27.7	30.0	28.5	30.7	29.6	30.6	28.0
5	26.3	24.9	25.7	24.5	29.2	27.7	30.6	28.5	30.0	28.5	29.6	28.0
6	26.4	25.3	26.2	24.9	28.6	27.1	30.6	28.5	29.9	28.8	29.0	28.0
7	26.7	25.8	26.8	26.2	28.6	27.4	30.6	28.5	30.1	28.5	28.3	27.1
8	26.8	25.8	27.1	26.0	28.1	27.1	30.1	28.5	30.6	29.0	27.6	27.1
9	26.8	25.8	27.3	26.2	27.2	26.2	30.1	28.5	30.2	29.6	27.6	27.1
10	26.8	25.8	26.8	24.9	27.1	26.1	30.6	28.5	30.1	29.1	28.1	27.4
11	26.8	25.9	25.9	24.9	28.0	27.1	30.6	29.0	30.1	28.1	28.6	27.6
12	27.1	26.2	25.9	25.0	28.2	27.1	29.6	28.6	28.9	26.7	28.6	28.0
13	26.3	24.9	26.3	25.0	28.6	27.2	30.1	28.4	28.8	27.6	29.1	28.0
14	26.2	25.3	26.7	26.2	28.2	27.1	30.1	28.4	30.1	28.5	28.5	27.5
15	26.3	25.8	27.1	26.2	29.0	27.6	30.6	28.2	30.4	28.5	27.7	26.8
16	26.3	25.5	27.6	26.2	29.0	28.0	30.6	28.6	30.7	29.5	28.1	27.1
17	25.5	22.9	27.6	26.2	28.8	26.7	31.2	29.5	30.7	29.9	28.3	27.1
18	23.0	21.3	28.2	26.2	27.3	26.2	31.2	29.2	30.2	29.0	28.2	27.7
19	23.0	21.2	28.2	26.2	27.3	26.2	31.7	29.3	30.6	27.6	28.1	27.1
20	23.0	21.1	28.2	26.2	27.6	26.2	31.8	29.5	29.6	27.6	27.5	26.7
21	23.4	21.8	28.2	26.2	27.6	25.8	31.2	28.5	30.6	28.1	27.6	26.2
22	23.8	22.9	27.3	26.2	26.7	25.8	30.6	28.4	30.4	27.1	27.3	26.2
23	24.8	23.7	27.0	26.2	27.6	25.8	30.1	29.5	30.1	27.7	26.4	25.8
24	25.8	24.5	26.7	25.9	27.9	26.2	30.1	29.0	31.2	28.9	26.2	25.8
25	26.7	25.1	27.6	26.2	28.4	27.1	29.6	29.0	30.0	29.0	26.5	25.8
26	27.1	26.2	28.3	27.1	28.2	27.1	29.6	28.5	30.1	29.0	26.4	26.2
27	27.1	26.2	28.6	27.6	28.2	27.1	29.1	28.5	30.6	28.7	27.0	26.2
28	27.9	27.1	28.8	28.0	28.1	27.1	29.1	28.5	30.6	29.0	28.0	26.7
29	27.7	26.6	28.7	28.1	27.7	27.1	29.6	29.0	30.1	29.1	28.1	27.2
30	27.2	24.9	28.7	27.6	27.6	27.1	30.0	29.1	30.6	29.2	28.7	27.6
31	---	---	28.1	26.7	---	---	30.7	29.5	31.2	29.0	---	---
MONTH	27.9	21.1	28.8	22.2	29.2	25.8	31.8	26.7	31.2	26.7	31.2	25.8

02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL

WATER-QUALITY RECORDS

LOCATION.--Lat 28°01'07", long 82°27'07", in NE$^1/_4$ 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 (corrected) downstream from Nebraska Avenue in Sulphur Springs, 0.6 mi southeast of Harbour Heights, and 2.0 mi downstream from control structure for Tampa Reservoir.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--January to August 1997; August to September 1999.

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

REMARKS.--Records good. Interruptions in record were due to malfunctions of the instruments.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 32,500 microsiemens, Jan. 21, 1997; bottom probe maximum, 30,900 microsiemens, Feb. 4, 5, 1997; top probe minimum, 177 microsiemens, Aug. 16, 1997; bottom probe minimum, 215 microsiemens, Aug. 20, 1997.

TEMPERATURE.--Top probe maximum, 33.5°C, July 7, 1997; bottom probe maximum, 31.4°C, July 25, 1997; top probe minimum, 14.8°C, Jan. 18, 1997; bottom probe minimum, 16.4°C, Jan. 20, 21, 1997.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Top probe maximum, 21,900 microsiemens, Sept. 19; bottom probe maximum, 29,400 microsiemens, Sept. 18; top probe minimum, 290 microsiemens, Aug. 22, 23; bottom probe minimum, 300 microsiemens, Aug. 22.

TEMPERATURE.--Top probe maximum, 31.0°C, Aug. 28; bottom probe maximum, 31.0°C, Aug. 28; top probe minimum, 25.7°C, Sept. 23; bottom probe minimum, 26.0°C, Sept. 15.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD AUGUST TO SEPTEMBER 1999
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	3300	330
2	---	---	---	---	---	---	---	---	---	---	2570	340
3	---	---	---	---	---	---	---	---	---	---	3570	620
4	---	---	---	---	---	---	---	---	12100	6380	4110	800
5	---	---	---	---	---	---	---	---	15200	5690	5770	1360
6	---	---	---	---	---	---	---	---	18500	6870	13900	4220
7	---	---	---	---	---	---	---	---	15000	5740	12800	5670
8	---	---	---	---	---	---	---	---	16800	6320	10300	5670
9	---	---	---	---	---	---	---	---	15200	6110	8970	6080
10	---	---	---	---	---	---	---	---	15900	6190	7660	5950
11	---	---	---	---	---	---	---	---	13800	5790	7630	5960
12	---	---	---	---	---	---	---	---	9530	4680	6860	5630
13	---	---	---	---	---	---	---	---	8340	4180	7120	5630
14	---	---	---	---	---	---	---	---	8560	4320	6670	5480
15	---	---	---	---	---	---	---	---	6780	4400	8430	5770
16	---	---	---	---	---	---	---	---	5700	3990	15100	6190
17	---	---	---	---	---	---	---	---	5690	4040	18500	6580
18	---	---	---	---	---	---	---	---	6960	3380	21600	7480
19	---	---	---	---	---	---	---	---	6280	3810	21900	8260
20	---	---	---	---	---	---	---	---	6630	4090	15000	1700
21	---	---	---	---	---	---	---	---	6520	1560	6150	1620
22	---	---	---	---	---	---	---	---	1590	290	7550	3510
23	---	---	---	---	---	---	---	---	830	290	11500	4450
24	---	---	---	---	---	---	---	---	1640	330	12000	6250
25	---	---	---	---	---	---	---	---	2530	380	12400	6970
26	---	---	---	---	---	---	---	---	1690	340	11300	7120
27	---	---	---	---	---	---	---	---	2390	370	10500	6950
28	---	---	---	---	---	---	---	---	1190	360	8930	6600
29	---	---	---	---	---	---	---	---	1810	380	8790	6540
30	---	---	---	---	---	---	---	---	2580	400	8710	6570
31	---	---	---	---	---	---	---	---	3290	460	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	21900	330

02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD AUGUST TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	3800	340
2	---	---	---	---	---	---	---	---	---	---	3690	390
3	---	---	---	---	---	---	---	---	---	---	4460	2300
4	---	---	---	---	---	---	---	---	17100	11800	9050	2330
5	---	---	---	---	---	---	---	---	19400	14600	25500	9050
6	---	---	---	---	---	---	---	---	20500	13700	25700	7810
7	---	---	---	---	---	---	---	---	20900	12000	18300	6350
8	---	---	---	---	---	---	---	---	20500	10800	14100	6760
9	---	---	---	---	---	---	---	---	19800	11200	10000	6100
10	---	---	---	---	---	---	---	---	19200	11300	9670	6000
11	---	---	---	---	---	---	---	---	19000	9070	9240	5900
12	---	---	---	---	---	---	---	---	12000	5060	8640	5820
13	---	---	---	---	---	---	---	---	11600	5670	8420	5850
14	---	---	---	---	---	---	---	---	12700	5840	8480	5940
15	---	---	---	---	---	---	---	---	11200	4830	17200	5810
16	---	---	---	---	---	---	---	---	6230	4500	22900	16000
17	---	---	---	---	---	---	---	---	6930	4210	28400	22900
18	---	---	---	---	---	---	---	---	7960	3980	29400	26700
19	---	---	---	---	---	---	---	---	12100	3740	28800	24100
20	---	---	---	---	---	---	---	---	15200	6710	25700	2100
21	---	---	---	---	---	---	---	---	16200	1850	17200	5130
22	---	---	---	---	---	---	---	---	2950	300	19600	9970
23	---	---	---	---	---	---	---	---	1760	340	20700	15500
24	---	---	---	---	---	---	---	---	2080	450	20500	12000
25	---	---	---	---	---	---	---	---	2920	420	17900	9050
26	---	---	---	---	---	---	---	---	2930	390	13800	8420
27	---	---	---	---	---	---	---	---	3010	390	12800	7220
28	---	---	---	---	---	---	---	---	2970	380	10600	6800
29	---	---	---	---	---	---	---	---	3050	430	11900	6750
30	---	---	---	---	---	---	---	---	3480	660	14900	7280
31	---	---	---	---	---	---	---	---	3760	1370	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	29400	340

02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD AUGUST TO SEPTEMBER 1999
(NEAR THE SURFACE)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	30.2	27.4
2	---	---	---	---	---	---	---	---	---	---	30.7	28.8
3	---	---	---	---	---	---	---	---	---	---	30.5	27.3
4	---	---	---	---	---	---	---	---	30.1	27.2	30.2	26.9
5	---	---	---	---	---	---	---	---	30.1	26.9	30.1	26.5
6	---	---	---	---	---	---	---	---	30.3	27.3	28.2	26.4
7	---	---	---	---	---	---	---	---	29.9	26.9	28.1	26.4
8	---	---	---	---	---	---	---	---	30.3	27.3	27.6	26.3
9	---	---	---	---	---	---	---	---	30.0	27.1	27.7	26.4
10	---	---	---	---	---	---	---	---	29.7	27.0	27.8	26.4
11	---	---	---	---	---	---	---	---	29.3	26.9	28.0	26.3
12	---	---	---	---	---	---	---	---	28.3	26.9	28.2	26.6
13	---	---	---	---	---	---	---	---	28.9	27.0	28.2	26.4
14	---	---	---	---	---	---	---	---	29.2	27.0	28.1	26.3
15	---	---	---	---	---	---	---	---	29.2	26.8	27.4	26.0
16	---	---	---	---	---	---	---	---	29.6	27.1	28.8	26.3
17	---	---	---	---	---	---	---	---	30.2	26.7	28.7	26.0
18	---	---	---	---	---	---	---	---	30.2	26.6	28.3	26.3
19	---	---	---	---	---	---	---	---	30.6	26.6	28.4	26.5
20	---	---	---	---	---	---	---	---	29.5	26.7	27.7	26.4
21	---	---	---	---	---	---	---	---	30.3	26.3	27.8	26.0
22	---	---	---	---	---	---	---	---	30.6	27.5	27.1	25.8
23	---	---	---	---	---	---	---	---	30.5	27.7	26.8	25.7
24	---	---	---	---	---	---	---	---	30.4	28.2	27.1	25.8
25	---	---	---	---	---	---	---	---	30.0	27.5	27.2	26.1
26	---	---	---	---	---	---	---	---	30.4	28.5	26.9	26.2
27	---	---	---	---	---	---	---	---	30.9	28.2	27.3	26.2
28	---	---	---	---	---	---	---	---	31.0	29.2	27.7	26.2
29	---	---	---	---	---	---	---	---	30.9	28.8	27.9	26.3
30	---	---	---	---	---	---	---	---	30.7	28.4	29.4	26.3
31	---	---	---	---	---	---	---	---	30.5	28.2	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	30.7	25.7

02304520 HILLSBOROUGH RIVER AT SULPHUR SPRINGS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD AUGUST TO SEPTEMBER 1999
(1 FT ABOVE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	29.8	26.8
2	---	---	---	---	---	---	---	---	---	---	30.2	27.6
3	---	---	---	---	---	---	---	---	---	---	29.4	26.7
4	---	---	---	---	---	---	---	---	30.0	29.1	29.3	26.5
5	---	---	---	---	---	---	---	---	30.4	29.6	30.1	27.8
6	---	---	---	---	---	---	---	---	30.7	29.5	30.0	27.0
7	---	---	---	---	---	---	---	---	30.6	29.5	28.7	26.7
8	---	---	---	---	---	---	---	---	30.5	29.3	28.1	26.6
9	---	---	---	---	---	---	---	---	30.5	29.0	27.4	26.4
10	---	---	---	---	---	---	---	---	30.4	29.1	27.6	26.4
11	---	---	---	---	---	---	---	---	30.3	28.4	27.9	26.3
12	---	---	---	---	---	---	---	---	28.8	27.2	27.8	26.6
13	---	---	---	---	---	---	---	---	28.7	27.4	27.8	26.4
14	---	---	---	---	---	---	---	---	29.1	27.8	27.5	26.3
15	---	---	---	---	---	---	---	---	29.1	27.1	28.9	26.0
16	---	---	---	---	---	---	---	---	29.1	27.4	29.4	28.6
17	---	---	---	---	---	---	---	---	29.1	27.1	29.5	29.3
18	---	---	---	---	---	---	---	---	28.5	27.0	29.4	29.0
19	---	---	---	---	---	---	---	---	29.3	26.7	29.1	28.5
20	---	---	---	---	---	---	---	---	30.0	28.6	28.7	26.4
21	---	---	---	---	---	---	---	---	30.2	28.4	27.9	26.5
22	---	---	---	---	---	---	---	---	30.5	27.3	28.1	26.8
23	---	---	---	---	---	---	---	---	30.4	27.3	28.2	27.3
24	---	---	---	---	---	---	---	---	30.3	27.5	28.1	27.0
25	---	---	---	---	---	---	---	---	29.9	27.1	27.7	26.6
26	---	---	---	---	---	---	---	---	30.3	27.5	27.1	26.4
27	---	---	---	---	---	---	---	---	30.9	27.6	27.0	26.3
28	---	---	---	---	---	---	---	---	31.0	28.0	27.4	26.4
29	---	---	---	---	---	---	---	---	30.8	27.5	27.5	26.2
30	---	---	---	---	---	---	---	---	30.3	27.4	27.8	26.4
31	---	---	---	---	---	---	---	---	29.7	27.1	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	30.2	26.0

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL

LOCATION.--Lat 28°01'15", long 82°27'07", in NE1/4 sec.25, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, at swimming 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. Discharge measurements made in spring run about 300 ft downstream from gage. Flow regulated by operating gates in control at swimming pool outlet at head of springs. Some diversions at times by pumping from the spring pool into Hillsborough River above the dam by the city of Tampa Water Department (station 02304500). Statistics do not include diverted flow.

REVISED RECORDS.--WRD FL--1991: Discharge and diversion published in 1988-90.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	37	52	52	52	52	52	e12	20	30	28	50
2	54	37	52	52	52	52	52	e.00	19	30	29	50
3	53	37	52	52	52	52	52	e.00	19	30	28	52
4	53	37	52	52	52	52	52	6.0	19	30	28	52
5	52	37	52	52	52	52	52	17	19	31	29	52
6	51	37	52	52	52	52	52	5.2	19	31	30	51
7	50	37	52	52	52	52	42	7.0	7.1	31	29	52
8	50	37	52	52	52	52	.00	.00	.00	31	28	52
9	49	46	52	52	52	52	.03	.00	5.1	31	28	52
10	48	49	52	52	52	52	.00	.00	19	30	28	52
11	48	49	52	52	52	52	.00	.00	19	30	28	52
12	47	49	52	52	52	52	.00	.00	19	30	29	52
13	48	48	52	52	52	52	12	6.0	21	30	30	52
14	47	30	52	52	52	52	15	17	21	30	29	52
15	47	33	52	52	52	52	16	17	21	31	30	52
16	46	34	52	52	52	52	17	16	22	30	33	52
17	46	41	52	52	52	52	18	16	23	30	32	52
18	45	51	52	52	52	52	18	8.0	26	31	33	52
19	44	50	52	52	52	52	18	.00	26	30	32	51
20	44	51	52	52	51	52	18	.00	26	29	29	50
21	43	52	52	52	48	52	19	.00	27	29	29	52
22	46	52	52	52	52	52	7.1	.00	28	29	31	52
23	44	52	52	52	52	52	.00	.00	28	29	33	52
24	36	52	52	52	52	52	.00	5.0	29	29	38	52
25	38	52	52	52	52	52	.00	17	29	29	47	52
26	38	52	52	52	52	52	.00	18	30	29	48	52
27	38	52	52	52	52	52	8.1	18	31	29	48	52
28	38	52	52	52	52	52	e18	19	31	29	48	52
29	38	52	52	52	---	52	e18	19	30	29	50	52
30	38	52	52	52	---	52	e18	19	30	29	50	36
31	38	---	52	52	---	52	---	21	---	28	50	---
TOTAL	1411	1347	1612	1612	1451	1612	574.23	263.20	663.20	924	1062	1536
MEAN	45.5	44.9	52.0	52.0	51.8	52.0	19.1	8.49	22.1	29.8	34.3	51.2
MAX	54	52	52	52	52	52	52	21	31	31	50	52
MIN	36	30	52	52	48	52	.00	.00	.00	28	28	36

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 1999, BY WATER YEAR (WY)

MEAN	44.0	39.2	37.8	38.6	38.9	39.8	33.2	28.1	31.2	38.2	45.6	47.9
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	23.7	11.7	4.73	3.80	4.15	6.79	14.5	31.3
(WY)	1973	1973	1979	1985	1991	1976	1976	1985	1977	1977	1977	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1960 - 1999	
ANNUAL TOTAL	15612		14067.63			
ANNUAL MEAN	42.8		38.5		38.6	
HIGHEST ANNUAL MEAN					67.6	1960
LOWEST ANNUAL MEAN					25.1	1985
HIGHEST DAILY MEAN	58	Sep 29	54	Oct 1	145	Mar 19 1960
LOWEST DAILY MEAN	30	Nov 14	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	34	Jun 18	1.7	May 6	.38	May 26 1981
10 PERCENT EXCEEDS	52		52		53	
50 PERCENT EXCEEDS	41		49		40	
90 PERCENT EXCEEDS	35		16		15	

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL--Continued

DAILY MEAN DIVERSION, IN CUBIC FEET PER SECOND, FROM SULPHUR SPRINGS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	15	---	---	---	---
2	---	---	---	---	---	---	---	30	---	---	---	---
3	---	---	---	---	---	---	---	30	---	---	---	---
4	---	---	---	---	---	---	---	18	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	14	---	---	---	---
7	---	---	---	---	---	---	9.5	10	19	---	---	---
8	---	---	---	---	---	---	30	---	30	---	---	---
9	---	---	---	---	---	---	30	---	20	---	---	---
10	---	---	---	---	---	---	30	---	---	---	---	---
11	---	---	---	---	---	---	30	---	---	---	---	---
12	---	---	---	---	---	---	30	---	---	---	---	---
13	---	---	---	---	---	---	15	18	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	15	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	19	---	---	---	---	---
23	---	---	---	---	---	---	30	29	---	---	---	---
24	---	---	---	---	---	---	30	12	---	---	---	---
25	---	---	---	---	---	---	30	---	---	---	---	---
26	---	---	---	---	---	---	30	---	---	---	---	---
27	---	---	---	---	---	---	14	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to September 1999.
INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature probe located 1.0 ft above the bottom of the pool.
REMARKS.--Records good.
EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE.--Bottom probe maximum, 5,960 microsiemens, Sept. 14; bottom probe minimum, 1,870 microsiemens, June 16, 19.
TEMPERATURE.--Bottom probe maximum, 25.8°C, Aug. 27; bottom probe minimum, 24.9°C, June 4.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(1.0 FT ABOVE THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	2130	2100	2620	2580	2750	2700	5230	4990
2	---	---	---	---	2100	2080	2660	2610	2700	2650	5470	4960
3	---	---	---	---	2130	2090	2700	2650	2680	2650	5650	5420
4	---	---	---	---	2200	2120	2740	2700	2690	2670	5750	5450
5	---	---	---	---	2170	2130	2770	2730	2680	2620	5750	5400
6	---	---	---	---	2130	2100	2780	2760	2630	2610	5800	5390
7	---	---	---	---	2100	2060	2790	2770	2670	2630	5820	5470
8	---	---	---	---	2080	2040	2780	2720	2720	2670	5890	5490
9	---	---	---	---	2190	2080	2780	2740	2730	2710	5910	5610
10	---	---	---	---	2190	2150	2860	2780	2730	2720	5930	5650
11	---	---	---	---	2180	2070	2900	2850	2730	2720	5920	5690
12	---	---	---	---	2070	1980	2910	2870	2730	2670	5880	5710
13	---	---	---	---	1980	1920	2900	2880	2670	2620	5930	5830
14	---	---	---	---	1930	1910	2900	2870	2660	2610	5960	5880
15	---	---	---	---	1910	1880	2870	2840	2690	2660	5920	5830
16	---	---	---	---	1910	1870	2890	2850	2700	2660	5890	5670
17	---	---	---	---	1900	1880	2900	2850	2790	2700	5850	5660
18	---	---	---	---	1900	1880	2850	2800	2850	2790	5740	5540
19	---	---	---	---	1890	1870	2840	2790	2840	2770	5670	5360
20	---	---	---	---	1980	1880	2860	2840	2770	2740	5520	5280
21	---	---	---	---	2080	1980	2860	2830	2750	2720	5520	5180
22	---	---	---	---	2110	2080	2840	2810	2740	2680	5680	5400
23	---	---	2740	2710	2130	2070	2820	2810	2680	2580	5790	5520
24	---	---	2720	2640	2260	2120	2830	2810	3510	2550	5810	5540
25	---	---	2640	2530	2350	2260	2830	2800	4100	3490	5810	5510
26	---	---	---	---	2400	2350	2810	2760	4350	3990	5790	5520
27	---	---	---	---	2430	2390	2780	2750	4540	4220	5780	5560
28	---	---	---	---	2430	2380	2780	2760	4910	4460	5790	5580
29	---	---	---	---	2510	2430	2760	2750	5060	4740	5780	5570
30	---	---	2200	2170	2580	2510	2750	2730	5150	4870	5770	4880
31	---	---	2170	2120	---	---	2760	2740	5220	5010	---	---
MONTH	---	---	---	---	2580	1870	2910	2580	5220	2550	5960	4880

02306000 SULPHUR SPRINGS AT SULPHUR SPRINGS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(1.0 FT ABOVE THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	25.1	25.1	25.4	25.2	25.4	25.3	25.6	25.6
2	---	---	---	---	25.1	25.1	25.4	25.2	25.5	25.4	25.7	25.6
3	---	---	---	---	25.1	25.1	25.4	25.2	25.5	25.4	25.6	25.6
4	---	---	---	---	25.2	24.9	25.3	25.2	25.5	25.4	25.7	25.6
5	---	---	---	---	25.2	25.1	25.4	25.3	25.5	25.4	25.7	25.6
6	---	---	---	---	25.2	25.1	25.4	25.3	25.5	25.4	25.6	25.6
7	---	---	---	---	25.2	25.1	25.4	25.3	25.5	25.4	25.6	25.6
8	---	---	---	---	25.2	25.1	25.4	25.3	25.5	25.4	25.7	25.6
9	---	---	---	---	25.2	25.1	25.4	25.3	25.5	25.4	25.7	25.6
10	---	---	---	---	25.3	25.1	25.4	25.3	25.5	25.4	25.7	25.6
11	---	---	---	---	25.3	25.1	25.4	25.3	25.5	25.4	25.7	25.6
12	---	---	---	---	25.3	25.1	25.4	25.3	25.5	25.4	25.7	25.6
13	---	---	---	---	25.3	25.1	25.4	25.3	25.6	25.5	25.7	25.6
14	---	---	---	---	25.3	25.2	25.4	25.3	25.7	25.5	25.7	25.6
15	---	---	---	---	25.3	25.2	25.4	25.3	25.6	25.5	25.7	25.6
16	---	---	---	---	25.3	25.2	25.4	25.3	25.6	25.5	25.7	25.6
17	---	---	---	---	25.3	25.2	25.4	25.3	25.6	25.5	25.7	25.6
18	---	---	---	---	25.3	25.2	25.4	25.3	25.6	25.5	25.6	25.6
19	---	---	---	---	25.3	25.2	25.5	25.3	25.6	25.5	25.6	25.6
20	---	---	---	---	25.4	25.2	25.4	25.3	25.7	25.6	25.6	25.6
21	---	---	---	---	25.4	25.2	25.4	25.3	25.7	25.6	25.6	25.6
22	---	---	---	---	25.3	25.2	25.4	25.3	25.6	25.6	25.7	25.6
23	---	---	25.1	25.1	25.3	25.2	25.4	25.3	25.7	25.6	25.6	25.6
24	---	---	25.1	25.1	25.3	25.2	25.4	25.3	25.7	25.6	25.6	25.5
25	---	---	25.1	25.1	25.3	25.2	25.4	25.3	25.7	25.6	25.6	25.5
26	---	---	---	---	25.3	25.2	25.4	25.3	25.7	25.6	25.6	25.5
27	---	---	---	---	25.4	25.3	25.4	25.3	25.8	25.7	25.6	25.5
28	---	---	---	---	25.4	25.3	25.4	25.3	25.7	25.6	25.6	25.5
29	---	---	---	---	25.3	25.3	25.4	25.3	25.7	25.6	25.6	25.5
30	---	---	25.1	25.1	25.4	25.2	25.4	25.3	25.7	25.6	25.7	25.5
31	---	---	25.1	25.1	---	---	25.4	25.3	25.6	25.6	---	---
MONTH	---	---	---	---	25.4	24.9	25.5	25.2	25.8	25.3	25.7	25.5

023060003 SULPHUR SPRINGS RUN AT SULPHUR SPRINGS, FL

LOCATION.--Lat 28°01'15", long 82°27'09", 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.

PERIOD OF RECORD.--May to September 1999 (gage heights only).

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

EXTREMES FOR CURRENT PERIOD.--Maximum gage height, 3.47 ft, Sept. 6; minimum, 0.42 ft below NGVD, June 8.

GAGE HEIGHT, FEET, PERIOD MAY TO SEPTEMBER 1999

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	2.13	.34	2.43	.52	2.17	.45	2.07	.84
2	---	---	---	---	2.23	.34	1.97	.55	1.76	.47	2.00	.74
3	---	---	---	---	2.04	.33	2.19	.55	2.22	.46	2.03	.89
4	---	---	---	---	1.77	.33	2.23	.53	1.89	.46	2.48	.89
5	---	---	---	---	1.67	.33	1.63	.53	2.43	.47	2.66	.87
6	---	---	---	---	1.21	.34	1.91	.53	3.05	.49	3.47	.89
7	---	---	---	---	1.06	-.37	2.29	.54	2.49	.46	3.03	.89
8	---	---	---	---	1.36	-.42	2.28	.59	2.53	.45	3.11	.88
9	---	---	---	---	1.69	-.41	2.46	.56	2.87	.45	2.81	.88
10	---	---	---	---	2.32	.36	2.62	.54	3.02	.45	2.60	.87
11	---	---	---	---	2.19	.35	2.73	.53	2.89	.45	2.44	.86
12	---	---	---	---	2.52	.39	2.85	.51	2.63	.49	2.10	.86
13	---	---	---	---	2.40	.39	2.94	.52	2.31	.48	1.72	.84
14	---	---	---	---	2.49	.41	2.76	.52	2.47	.47	1.28	.82
15	---	---	---	---	2.50	.41	2.55	.51	2.47	.49	1.57	.84
16	---	---	---	---	3.09	.42	2.15	.50	1.89	.49	2.40	.86
17	---	---	---	---	3.29	.43	1.95	.50	1.82	.49	2.12	.85
18	---	---	---	---	2.32	.49	1.91	.53	2.11	.49	2.64	.88
19	---	---	---	---	1.97	.48	1.49	.53	2.15	.41	2.98	.94
20	---	---	---	---	1.32	.45	1.72	.51	2.03	.49	3.03	1.47
21	---	---	---	---	1.52	.45	1.46	.51	2.14	.47	3.08	.92
22	---	---	---	---	1.43	.49	1.75	.50	2.18	.49	2.35	.87
23	---	---	---	---	1.58	.49	1.99	.48	2.48	.51	2.44	.87
24	---	---	---	---	2.10	.49	2.47	.47	2.40	.81	2.86	.87
25	---	---	1.88	.27	2.17	.51	2.45	.47	2.75	.75	3.04	.88
26	---	---	1.90	.29	2.01	.54	2.28	.48	2.66	.86	2.84	.88
27	---	---	1.91	.30	2.41	.54	2.44	.47	2.56	.84	2.58	.87
28	---	---	1.89	.30	2.25	.53	2.50	.46	2.50	.84	2.52	.86
29	---	---	1.83	.30	2.48	.53	2.59	.46	2.53	.87	2.54	.87
30	---	---	2.02	.31	2.77	.52	2.35	.46	2.54	.87	2.58	.44
31	---	---	2.28	.35	---	---	2.60	.45	1.96	.85	---	---
MONTH	---	---	---	---	3.29	-.42	2.94	.45	3.05	.41	3.47	.44

023060003 SULPHUR SPRINGS RUN AT SULPHUR SPRINGS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May to September 1999.
INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature probe located near the bottom.
REMARKS.--Records good.
EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE.--Bottom probe maximum, 15,600 microsiemens, June 9, bottom probe minimum, 1,830 microsiemens, June 13.
TEMPERATURE.--Bottom probe maximum, 27.4°C, June 8, 9; bottom probe minimum, 24.7°C, May 25, 26.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	2260	2220	2670	2610	2780	2730	5300	5070
2	---	---	---	---	2280	2220	2700	2650	2730	2670	5530	5040
3	---	---	---	---	2300	2250	2740	2680	2700	2670	5730	5510
4	---	---	---	---	2270	2130	2780	2730	2720	2700	5820	5520
5	---	---	---	---	2180	2140	2810	2770	2710	2640	5820	5490
6	---	---	---	---	2150	2120	2820	2790	2660	2630	5860	5460
7	---	---	---	---	11000	2030	2820	2780	2690	2650	5870	5570
8	---	---	---	---	13900	2120	2810	2750	2740	2680	5930	5590
9	---	---	---	---	15600	2190	2810	2770	2760	2740	5970	5710
10	---	---	---	---	2240	2190	2900	2810	2760	2740	6000	5760
11	---	---	---	---	2210	2100	2920	2880	2760	2720	5990	5780
12	---	---	---	---	2100	2010	2940	2900	2750	2680	5950	5800
13	---	---	---	---	2010	1830	2940	2910	2690	2640	6010	5900
14	---	---	---	---	1960	1930	2930	2900	2700	2630	6040	5910
15	---	---	---	---	1940	1910	2910	2870	2720	2610	6000	5910
16	---	---	---	---	1930	1900	2920	2880	2720	2690	5970	5730
17	---	---	---	---	1920	1880	2930	2800	2820	2720	5930	5740
18	---	---	---	---	1950	1910	2880	2830	2870	2790	5820	5580
19	---	---	---	---	1930	1880	2870	2820	2860	2790	5760	5430
20	---	---	---	---	2000	1900	2890	2870	2800	2760	5550	5350
21	---	---	---	---	2120	1900	2890	2870	2770	2700	5580	5240
22	---	---	---	---	2150	2080	2870	2840	2760	2470	5740	5470
23	---	---	---	---	2150	2100	2850	2840	2710	2610	5850	5600
24	---	---	---	---	2280	2150	2850	2840	3520	2570	5860	5610
25	---	---	2860	2710	2380	2280	2860	2840	4150	3500	5870	5590
26	---	---	2720	2510	2440	2360	2840	2790	4410	3990	5840	5610
27	---	---	2510	2400	2460	2360	2810	2770	4600	4290	5840	5630
28	---	---	2420	2350	2480	2410	2800	2770	4980	4550	5860	5650
29	---	---	2380	2320	2550	2470	2790	2770	5130	4830	5840	5640
30	---	---	2350	2190	2620	2540	2780	2760	5220	4940	5850	4820
31	---	---	2290	2240	---	---	2780	2760	5270	5100	---	---
MONTH	---	---	---	---	15600	1830	2940	2610	5270	2470	6040	4820

023060003 SULPHUR SPRINGS RUN AT SULPHUR SPRINGS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	26.4	25.1	25.9	25.1	25.9	25.3	25.8	25.4
2	---	---	---	---	26.0	25.1	25.8	25.1	26.0	25.3	25.9	25.5
3	---	---	---	---	26.4	25.1	25.9	25.1	25.9	25.3	25.8	25.4
4	---	---	---	---	25.9	25.0	25.8	25.1	25.9	25.3	25.9	25.4
5	---	---	---	---	25.7	24.9	26.0	25.1	25.9	25.2	25.9	25.4
6	---	---	---	---	25.7	24.9	26.0	25.1	25.8	25.3	25.6	25.5
7	---	---	---	---	27.3	24.9	25.9	25.1	25.9	25.3	25.8	25.5
8	---	---	---	---	27.4	24.8	25.9	25.1	25.9	25.3	25.9	25.5
9	---	---	---	---	27.4	25.0	25.7	25.2	25.8	25.3	26.0	25.4
10	---	---	---	---	25.7	25.0	25.8	25.2	25.8	25.3	26.0	25.5
11	---	---	---	---	25.7	25.0	25.7	25.2	25.8	25.3	26.1	25.4
12	---	---	---	---	25.8	25.0	25.6	25.2	25.9	25.3	26.0	25.4
13	---	---	---	---	25.7	24.8	25.9	25.2	26.3	25.4	25.8	25.4
14	---	---	---	---	25.8	25.1	25.9	25.2	26.3	25.4	25.8	25.4
15	---	---	---	---	25.9	25.1	26.0	25.1	26.2	25.4	25.8	25.4
16	---	---	---	---	25.7	25.1	25.9	25.2	26.2	25.4	25.9	25.4
17	---	---	---	---	25.5	25.1	25.9	25.2	26.2	25.3	25.8	25.2
18	---	---	---	---	25.6	25.1	25.8	25.2	26.3	25.3	25.8	25.4
19	---	---	---	---	25.9	25.1	25.9	25.2	26.2	25.3	25.8	25.5
20	---	---	---	---	25.9	25.1	25.9	25.2	26.2	25.3	25.6	25.4
21	---	---	---	---	25.9	24.9	25.8	25.2	26.3	25.4	25.7	25.5
22	---	---	---	---	25.8	25.1	25.7	25.2	26.1	25.3	25.7	25.3
23	---	---	---	---	25.7	25.1	25.7	25.2	26.0	25.4	25.7	25.3
24	---	---	---	---	25.7	25.1	25.7	25.2	26.1	25.4	25.7	25.3
25	---	---	26.8	24.7	25.6	25.2	25.8	25.2	26.0	25.6	25.8	25.4
26	---	---	26.4	24.7	25.6	25.1	25.6	25.2	26.1	25.6	25.7	25.4
27	---	---	26.4	25.1	25.8	25.2	25.8	25.2	26.1	25.6	25.8	25.4
28	---	---	26.4	25.1	25.7	25.2	25.8	25.2	26.1	25.6	25.8	25.4
29	---	---	26.4	25.1	25.6	25.2	25.8	25.2	26.1	25.5	25.8	25.4
30	---	---	26.4	25.1	25.7	25.1	25.8	25.3	26.0	25.5	26.1	25.3
31	---	---	26.0	25.1	---	---	26.0	25.3	25.9	25.4	---	---
MONTH	---	---	---	---	27.4	24.8	26.0	25.1	26.3	25.2	26.1	25.2

023060005 SULPHUR SPRINGS MOUTH AT SULPHUR SPRINGS, FL

WATER-QUALITY RECORDS

LOCATION.--Lat 28°01'15", long 82°27'12", in NE$^1/_4$ 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 to September 1999.

INSTRUMENTATION.--Water-quality monitor consisting of a specific conductance and temperature probe located near the bottom.

REMARKS.--Records good. Interruptions in record were due to malfunctions of the instruments.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE.--Bottom probe maximum, 18,100 microsiemens, June 9; bottom probe minimum, 1,620 microsiemens, June 17.

TEMPERATURE.--Bottom probe maximum, 28.6°C, May 28; bottom probe minimum, 24.5°C, June 25.

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	5840	2370	4430	2540	---	---	5140	2550
2	---	---	---	---	5070	2210	3570	2570	---	---	5380	3640
3	---	---	---	---	5880	2770	2960	2550	---	---	5590	4320
4	---	---	---	---	6880	3000	2700	2500	---	---	5670	5080
5	---	---	---	---	5730	2570	2740	2420	---	---	5690	5060
6	---	---	---	---	3950	2150	2740	2640	4670	2590	5800	5260
7	---	---	---	---	15200	2090	2750	2150	4240	2660	7640	5300
8	---	---	---	---	16600	2960	2730	2500	5130	2650	7410	5120
9	---	---	---	---	18100	2220	2750	2630	6410	2570	6930	5580
10	---	---	---	---	7040	2180	2830	2580	4130	3840	6850	5620
11	---	---	---	---	5560	2100	2840	2580	---	---	6860	5670
12	---	---	---	---	7780	2040	2850	2380	---	---	6700	5680
13	---	---	---	---	4550	1980	2840	2560	---	---	6930	5380
14	---	---	---	---	2680	1910	2830	2600	---	---	6670	4820
15	---	---	---	---	3380	1810	2810	2550	---	---	7210	4820
16	---	---	---	---	3740	1870	2840	2330	---	---	7430	5630
17	---	---	---	---	2660	1620	2830	2220	---	---	7610	5630
18	---	---	---	---	2020	1830	2790	2430	---	---	7660	5480
19	---	---	---	---	2380	1760	2760	2330	---	---	7710	5160
20	---	---	---	---	2030	1870	2800	2290	---	---	6760	4850
21	---	---	---	---	2500	1980	2810	2090	---	---	5370	3510
22	---	---	---	---	2150	1880	3060	2030	---	---	5600	3970
23	---	---	---	---	2880	1680	4520	2650	---	---	6670	5180
24	---	---	---	---	2390	2140	4970	2750	---	---	7270	5210
25	---	---	---	---	3470	2190	4870	2750	4040	3260	7600	5490
26	---	---	---	---	4140	2190	4400	2720	4310	2490	7290	5500
27	---	---	---	---	4860	2030	8010	2730	4510	2930	7540	5540
28	---	---	---	---	4190	2410	6660	2720	4870	2360	7250	4310
29	---	---	5710	2350	6220	2410	5310	2700	5030	3650	7560	5540
30	---	---	6090	2130	6000	2450	4840	2700	5100	3450	6930	4730
31	---	---	6180	2280	---	---	---	---	5150	2460	---	---
MONTH	---	---	---	---	18100	1620	---	---	---	---	7710	2550

023060005 SULPHUR SPRINGS MOUTH AT SULPHUR SPRINGS, FL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, PERIOD MAY TO SEPTEMBER 1999
(NEAR THE BOTTOM)

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	---	---	26.7	25.0	26.0	25.1	---	---	28.3	25.5
2	---	---	---	---	26.5	25.1	26.0	25.0	---	---	27.3	25.5
3	---	---	---	---	26.7	24.8	26.1	25.1	---	---	27.2	25.5
4	---	---	---	---	26.8	25.0	25.9	25.1	---	---	26.1	25.5
5	---	---	---	---	26.5	25.0	26.2	25.0	---	---	26.4	25.5
6	---	---	---	---	26.0	25.0	26.1	25.0	26.7	25.6	26.1	25.5
7	---	---	---	---	28.4	25.0	26.2	25.2	26.0	25.4	26.9	25.0
8	---	---	---	---	27.9	24.7	26.0	25.2	27.2	25.4	26.7	25.5
9	---	---	---	---	27.8	25.0	25.8	25.2	27.4	25.0	26.9	25.5
10	---	---	---	---	26.6	25.0	26.1	25.3	26.0	25.9	26.9	25.5
11	---	---	---	---	26.6	25.0	26.2	25.3	---	---	27.3	25.5
12	---	---	---	---	27.2	25.0	26.2	25.0	---	---	27.5	25.5
13	---	---	---	---	26.5	24.9	26.7	25.0	---	---	27.7	25.5
14	---	---	---	---	26.3	24.9	26.5	25.2	---	---	27.5	25.5
15	---	---	---	---	26.4	25.1	26.2	25.2	---	---	27.1	25.5
16	---	---	---	---	26.6	24.9	26.9	25.0	---	---	27.8	25.5
17	---	---	---	---	25.9	25.1	26.4	25.0	---	---	27.9	25.4
18	---	---	---	---	25.6	25.1	26.2	25.0	---	---	27.1	25.5
19	---	---	---	---	26.0	25.1	26.4	25.0	---	---	26.8	25.5
20	---	---	---	---	26.0	25.0	27.3	25.2	---	---	26.0	25.5
21	---	---	---	---	26.1	24.8	27.4	25.2	---	---	26.3	25.5
22	---	---	---	---	26.1	25.0	27.4	25.3	---	---	26.2	25.4
23	---	---	---	---	26.2	24.8	27.9	25.2	---	---	26.1	25.4
24	---	---	---	---	25.8	25.1	27.6	25.2	---	---	26.0	25.4
25	---	---	---	---	26.0	24.5	26.7	25.0	27.6	25.4	26.5	25.4
26	---	---	---	---	26.6	24.6	26.7	25.2	27.4	25.5	26.2	25.4
27	---	---	27.2	25.4	26.4	25.2	27.3	25.2	27.5	24.9	26.7	25.5
28	---	---	28.6	24.9	26.1	25.0	27.2	25.0	27.1	25.6	27.6	25.4
29	---	---	27.6	24.9	26.4	25.2	27.0	25.3	27.0	25.5	28.3	25.4
30	---	---	26.9	24.9	26.3	25.2	26.4	25.3	27.7	25.5	27.9	25.4
31	---	---	27.2	25.0	---	---	---	---	28.3	25.5	---	---
MONTH	---	---	---	---	28.4	24.5	---	---	---	---	28.3	25.0

02306500 SWEETWATER CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'35", long 82°30'42", in SW 1/4 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^2.

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. Maximum discharge, 74 ft^3/s, Oct. 1, gage height 5.38 ft, occurred on recession following peak of Sept. 20, 1998; maximum independent peak discharge, 56 ft^3/s, Aug. 18, gage height 5.31 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	.63	.57	.50	.76	.51	.23	.04	.00	1.6	1.9	2.3
2	69	.56	.70	.78	.80	.44	.22	.01	.06	1.4	1.2	2.3
3	65	.61	.60	1.8	.74	.45	.21	.00	.03	1.3	.91	2.0
4	56	2.3	.48	1.0	.76	.39	.23	.00	.16	1.5	.81	1.8
5	48	6.5	.47	.79	.64	.31	.22	.00	.21	1.3	.76	2.1
6	35	1.1	.46	.77	.58	.32	.18	.00	.12	1.1	1.1	3.4
7	33	.93	.49	.86	.56	.28	.15	.00	.01	.98	1.1	5.1
8	26	.80	.48	.88	.48	.26	.14	.00	.00	.84	.99	7.0
9	18	.76	.51	.90	.46	.24	.16	.00	4.6	.74	.85	6.1
10	13	.74	.47	.89	.37	.18	.11	.00	2.0	.74	.71	5.1
11	13	.78	.48	.73	.28	.16	.06	.00	1.4	.75	.58	4.6
12	12	.83	.50	.73	.33	.16	.06	.00	1.3	.71	1.0	6.1
13	15	.78	1.3	.74	.35	.16	.03	.00	1.0	11	.95	5.3
14	13	.89	1.2	.75	.33	1.9	.01	.61	.87	21	.86	7.1
15	10	.78	.93	.75	.34	2.3	.00	.77	1.6	16	.76	5.0
16	9.7	.69	.81	.78	.43	.94	.01	.39	1.3	6.6	.62	2.3
17	9.2	.66	.76	.74	.34	.61	.71	.19	11	5.4	.55	2.0
18	8.4	.59	.69	.72	.32	.45	.46	.28	16	5.4	11	2.6
19	8.1	.56	.74	.75	.30	.35	.19	.10	8.3	3.8	21	3.9
20	8.0	.54	.76	.82	.30	.30	.11	.00	5.9	2.4	16	24
21	7.5	.60	.67	.84	.30	.42	.05	.85	3.9	1.3	10	27
22	7.1	.67	.68	.81	.27	.86	.00	.07	1.8	.97	10	6.4
23	6.0	.50	.60	1.5	.24	.57	.00	.03	1.7	2.3	20	2.9
24	5.3	.43	.54	4.8	.26	.40	.00	.31	1.6	5.7	22	3.8
25	4.9	.58	.49	2.2	.35	.26	.00	.29	2.2	3.4	12	2.8
26	4.6	.68	.56	1.6	.30	.24	.00	.11	2.2	1.8	4.7	1.9
27	4.1	.69	.60	1.3	.25	.18	.00	.04	1.9	1.2	4.3	1.5
28	3.7	.69	.59	1.0	.49	.16	.00	.00	1.8	.62	4.0	1.2
29	3.1	.63	.62	.93	---	.18	.00	.00	1.6	.51	3.4	1.0
30	1.0	.60	.56	.80	---	.21	.02	.00	1.4	3.5	2.8	.95
31	.66	---	.51	.80	---	.18	---	.00	---	2.6	2.5	---
TOTAL	588.36	28.10	19.82	33.26	11.93	14.37	3.56	4.09	75.96	108.46	159.35	149.55
MEAN	19.0	.94	.64	1.07	.43	.46	.12	.13	2.53	3.50	5.14	4.99
MAX	71	6.5	1.3	4.8	.80	2.3	.71	.85	16	21	22	27
MIN	.66	.43	.46	.50	.24	.16	.00	.00	.00	.51	.55	.95
AC-FT	1170	56	39	66	24	29	7.1	8.1	151	215	316	297

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1999, BY WATER YEAR (WY)

MEAN	6.61	2.56	2.84	3.74	4.06	7.88	4.98	2.32	3.58	6.40	15.6	16.9
MAX	42.3	13.1	56.6	42.4	48.2	79.3	55.8	27.3	40.8	56.7	97.5	83.3
(WY)	1960	1989	1998	1998	1998	1960	1959	1959	1959	1959	1960	1979
MIN	.006	.000	.000	.000	.000	.026	.000	.000	.000	.023	.000	.000
(WY)	1957	1957	1957	1957	1957	1956	1956	1955	1955	1956	1956	1956

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1952 - 1999	
ANNUAL TOTAL	8465.68		1196.81			
ANNUAL MEAN	23.2		3.28		6.47	
HIGHEST ANNUAL MEAN					35.9	1959
LOWEST ANNUAL MEAN					.15	1956
HIGHEST DAILY MEAN	108	Sep 21	71	Oct 1	396	Mar 17 1960
LOWEST DAILY MEAN	.43	Nov 24	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.48	Dec 4	.00	Apr 22	.00	May 15 1953
INSTANTANEOUS PEAK FLOW			74	Oct 1	438	Mar 17 1960
INSTANTANEOUS PEAK STAGE			5.38	Oct 1	9.57	May 18 1979
ANNUAL RUNOFF (AC-FT)	16790		2370		4680	
10 PERCENT EXCEEDS	61		7.7		17	
50 PERCENT EXCEEDS	14		.75		1.3	
90 PERCENT EXCEEDS	.68		.04		.20	

02306647 SWEETWATER CREEK NEAR TAMPA, FL

LOCATION.--Lat 28°00'49", long 82°32'43", in SW$^1/_4$ 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^2.

PERIOD OF RECORD.--April 1964 to September 1981 (discharge measurements only); 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 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 good. Creek dry at gage May 16, 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	5.3	.91	3.5	2.5	6.5	.42	.82	.16	5.4	6.3	12
2	113	5.0	1.2	3.4	2.9	5.8	.44	.70	.52	6.5	4.2	22
3	103	5.3	1.3	14	3.0	4.9	.06	.59	1.1	5.0	2.8	12
4	89	8.5	1.5	5.6	2.9	4.8	.79	.38	.41	6.0	1.5	7.0
5	76	18	1.5	3.5	2.7	4.5	.98	.80	.41	5.4	2.6	5.3
6	65	7.2	1.7	2.4	2.4	4.3	.49	.96	.26	4.3	7.1	13
7	51	4.4	1.8	2.0	2.5	4.2	.91	.85	.34	3.0	7.6	18
8	40	3.8	1.6	1.9	2.4	3.8	1.3	.66	.46	4.2	4.4	19
9	30	4.2	1.7	1.9	2.5	3.8	1.8	.17	5.2	4.2	3.0	17
10	23	4.7	2.1	3.1	2.6	4.2	2.1	.13	9.8	4.1	2.9	10
11	22	4.7	2.9	2.3	3.0	4.4	2.4	.15	4.1	3.0	5.0	21
12	22	4.7	3.2	2.0	3.1	4.7	2.4	.31	2.3	2.5	20	56
13	23	4.4	7.6	1.9	3.3	4.8	2.6	.29	2.9	23	19	15
14	26	4.1	7.0	1.9	3.4	9.9	2.7	.81	2.7	52	11	12
15	20	3.0	4.0	2.5	3.5	10	2.6	.53	7.0	31	23	14
16	20	3.1	3.2	2.7	3.7	5.8	2.8	e.40	9.6	17	13	7.6
17	20	1.9	2.7	3.5	4.0	4.5	4.3	e.40	23	12	11	4.7
18	19	1.9	3.0	3.5	4.1	3.7	4.0	e.30	24	16	12	8.7
19	19	2.0	2.2	3.1	4.0	3.4	3.4	e.30	11	15	91	10
20	18	1.7	2.4	3.4	4.0	3.2	3.3	.50	12	11	82	41
21	15	1.6	2.9	3.3	4.1	3.0	2.7	1.3	13	7.2	50	89
22	12	1.6	3.6	3.3	4.5	3.3	2.3	2.5	14	5.8	45	29
23	11	1.6	3.3	4.3	4.4	3.8	1.8	3.0	9.1	5.3	39	12
24	9.3	1.6	3.6	25	4.3	3.9	e.45	2.9	15	4.9	48	6.6
25	8.3	1.6	3.9	8.3	4.5	4.0	e.22	1.0	9.1	4.9	36	4.1
26	7.7	1.6	4.8	4.3	4.5	4.0	e.22	.63	8.7	4.9	45	3.1
27	7.1	1.5	5.6	2.8	4.6	3.9	e.22	.41	6.6	4.3	35	2.8
28	7.3	1.3	5.3	2.3	5.8	3.9	e.22	.31	5.5	3.1	24	2.5
29	7.4	1.2	6.2	2.3	---	3.1	e.22	.28	4.8	2.7	18	2.3
30	6.1	.87	6.7	2.1	---	.21	.55	.26	3.9	3.3	14	2.6
31	4.9	---	4.7	2.1	---	.43	---	.28	---	9.1	12	---
TOTAL	1016.1	112.37	104.11	128.2	99.2	134.74	48.69	22.92	206.96	286.1	695.4	479.3
MEAN	32.8	3.75	3.36	4.14	3.54	4.35	1.62	.74	6.90	9.23	22.4	16.0
MAX	121	18	7.6	25	5.8	10	4.3	3.0	24	52	91	89
MIN	4.9	.87	.91	1.9	2.4	.21	.06	.13	.16	2.5	1.5	2.3
CFSM	2.29	.26	.23	.29	.25	.30	.11	.05	.48	.65	1.57	1.12
IN.	2.64	.29	.27	.33	.26	.35	.13	.06	.54	.74	1.81	1.25

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

MEAN	22.4	14.9	21.9	15.9	17.7	19.0	11.1	7.07	15.0	28.3	39.8	47.2
MAX	59.0	77.7	219	89.0	137	89.9	49.1	29.7	35.9	53.1	97.3	127
(WY)	1996	1998	1998	1998	1998	1998	1987	1987	1996	1994	1995	1988
MIN	3.85	2.50	2.64	2.32	3.54	2.50	1.62	.74	2.81	6.52	8.65	7.44
(WY)	1992	1997	1992	1997	1999	1994	1999	1999	1998	1993	1993	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1986 - 1999	
ANNUAL TOTAL	16742.11		3334.09			
ANNUAL MEAN	45.9		9.13		21.7	
HIGHEST ANNUAL MEAN					70.1	1998
LOWEST ANNUAL MEAN					9.13	1999
HIGHEST DAILY MEAN	384	Feb 17	121	Oct 1	803	Dec 13 1997
LOWEST DAILY MEAN	.09	May 21	.06	Apr 3	.06	Apr 3 1999
ANNUAL SEVEN-DAY MINIMUM	.24	May 20	.30	Apr 24	.24	May 20 1998
INSTANTANEOUS PEAK FLOW			127	Sep 11	930	Dec 13 1997
INSTANTANEOUS PEAK STAGE			11.91	Sep 11	13.83	Dec 13 1997
ANNUAL RUNOFF (CFSM)	3.21		.64		1.52	
ANNUAL RUNOFF (INCHES)	43.55		8.67		20.64	
10 PERCENT EXCEEDS	119		21		56	
50 PERCENT EXCEEDS	25		4.0		7.5	
90 PERCENT EXCEEDS	1.4		.54		1.8	

02306654 HENRY STREET CANAL NEAR TAMPA, FL

LOCATION.--Lat 27°59"59", long 82°33'05", in SE$^1/_4$ 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.
GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Hillsborough County).
REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	3.2	1.9	2.0	2.9	3.1	1.3	1.5	1.9	19	2.1	5.4
2	9.3	3.1	1.9	2.6	4.4	2.5	e1.2	1.3	4.1	7.6	2.6	23
3	8.3	3.1	2.0	30	3.6	2.4	e1.2	1.3	2.4	8.3	2.5	5.0
4	7.8	9.1	1.8	4.7	3.2	2.5	e1.2	1.1	1.8	6.3	18	3.4
5	7.3	11	1.8	3.5	3.3	2.3	e1.2	1.3	1.8	3.4	7.6	3.0
6	7.1	5.0	1.9	3.1	3.1	2.3	e1.1	1.3	1.8	3.1	14	11
7	6.7	4.1	1.9	2.9	3.1	2.4	e1.1	1.3	1.7	2.8	4.7	8.7
8	6.6	3.7	1.8	2.8	2.9	2.4	e1.1	1.7	1.6	3.0	2.7	12
9	6.2	3.5	1.8	4.5	2.9	2.3	e1.0	1.4	3.4	7.9	2.6	5.7
10	5.8	3.4	1.8	5.8	2.9	2.4	e1.0	1.4	2.2	4.6	2.6	4.1
11	5.7	3.2	1.8	3.4	2.8	2.4	e1.0	2.0	1.7	2.9	5.6	78
12	5.5	2.8	1.8	3.0	2.6	2.3	e1.0	2.3	1.5	2.7	34	75
13	5.6	2.8	8.6	2.9	2.5	2.4	e.90	1.7	1.5	9.0	14	9.9
14	5.3	2.7	4.2	2.8	2.5	11	e.90	4.7	1.6	8.1	10	23
15	4.9	2.7	2.7	2.7	2.5	5.8	1.7	3.4	7.6	6.7	64	11
16	4.6	2.5	2.5	2.5	2.4	3.0	1.3	1.8	14	5.9	15	4.4
17	4.4	2.5	2.2	2.5	2.5	2.5	3.1	1.5	46	16	21	3.3
18	4.5	2.4	2.0	2.6	2.6	2.5	2.1	1.9	21	15	26	26
19	4.2	2.4	2.0	2.4	2.4	2.0	1.3	1.8	6.7	7.3	16	12
20	4.1	2.3	2.0	2.4	2.4	1.8	1.6	1.4	8.1	4.2	8.2	68
21	4.1	2.2	1.9	2.4	2.5	1.8	1.4	5.2	35	3.2	10	56
22	4.0	2.4	1.9	2.3	2.5	1.7	1.4	4.3	28	2.8	13	13
23	3.8	2.2	1.8	6.5	2.5	1.6	1.3	3.3	12	2.7	15	6.3
24	3.7	2.1	1.8	29	2.5	1.5	e1.2	1.8	9.2	2.6	6.5	4.2
25	3.7	2.1	1.9	5.6	2.3	1.5	e1.2	1.8	8.8	2.4	4.7	3.9
26	3.5	2.1	2.3	4.3	2.3	1.5	e1.1	1.8	8.8	2.5	15	4.6
27	3.2	2.0	2.4	3.7	2.3	1.4	e1.1	1.8	3.9	2.7	12	3.5
28	3.3	2.0	2.0	3.6	4.7	1.4	e1.1	2.0	3.3	3.3	4.4	3.3
29	3.3	2.0	4.2	3.3	---	1.4	e1.0	2.1	3.0	2.4	3.1	3.4
30	3.2	1.9	3.8	3.1	---	1.3	2.0	2.0	3.3	2.2	2.7	2.6
31	3.2	---	2.3	3.1	---	1.3	---	2.0	---	2.5	2.5	---
TOTAL	165.9	96.5	74.7	156.0	79.1	76.7	39.10	64.2	247.7	173.1	362.1	492.7
MEAN	5.35	3.22	2.41	5.03	2.83	2.47	1.30	2.07	8.26	5.58	11.7	16.4
MAX	13	11	8.6	30	4.7	11	3.1	5.2	46	19	64	78
MIN	3.2	1.9	1.8	2.0	2.3	1.3	.90	1.1	1.5	2.2	2.1	2.6

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

MEAN	10.7	8.60	10.3	8.48	8.43	10.2	6.56	4.45	12.7	17.9	22.8	22.8
MAX	19.7	20.5	62.0	15.8	31.6	33.6	15.9	11.3	33.8	34.6	55.3	73.8
(WY)	1996	1998	1998	1996	1998	1987	1997	1998	1995	1995	1995	1988
MIN	3.28	3.22	2.41	2.87	2.58	1.51	1.30	.67	5.08	5.58	11.7	8.76
(WY)	1989	1999	1999	1997	1997	1994	1999	1992	1998	1999	1999	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1986 - 1999	
ANNUAL TOTAL	4654.8		2027.80			
ANNUAL MEAN	12.8		5.56		12.0	
HIGHEST ANNUAL MEAN					19.9	1998
LOWEST ANNUAL MEAN					5.56	1999
HIGHEST DAILY MEAN	210	Mar 19	78	Sep 11	464	Sep 27 1997
LOWEST DAILY MEAN	1.8	Dec 4	.90	Apr 13	.10	May 29 1992
ANNUAL SEVEN-DAY MINIMUM	1.8	Dec 4	.99	Apr 8	.13	May 26 1992
INSTANTANEOUS PEAK FLOW			530	Sep 11	1210	Sep 26 1997
INSTANTANEOUS PEAK STAGE			10.42	Sep 11	12.60	Sep 26 1997
10 PERCENT EXCEEDS	22		11		25	
50 PERCENT EXCEEDS	7.5		2.8		5.3	
90 PERCENT EXCEEDS	2.4		1.4		1.9	

02306774 ROCKY CREEK AT STATE HIGHWAY 587 NEAR CITRUS PARK, FL

LOCATION.--Lat 28°03'55", long 82°34'00", in NW$^1/_4$ 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.--17.8 mi^2.

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. Maximum discharge, 136 ft^3/s, Oct. 1, gage height 21.80 ft, occurred on recession following peak of Sept. 23, 1998; maximum independent peak discharge, 52 ft^3/s, Sept. 28, gage height 20.05 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	2.0	e.81	.99	1.7	.77	.37	.23	.26	4.6	.97	1.2
2	127	1.8	e1.0	1.0	1.7	.65	.37	.21	.27	6.1	.82	1.3
3	114	1.9	e.86	2.7	1.6	.63	.37	.20	.77	5.0	.65	1.1
4	104	2.3	e.70	1.9	1.5	.64	.37	.19	.51	5.4	.57	.90
5	95	5.1	e.63	1.6	1.4	.58	.36	.18	.38	4.1	.58	.80
6	86	6.4	e.61	1.4	1.4	.54	.37	.19	.35	4.1	4.4	2.2
7	76	5.4	e.62	1.4	1.3	.54	.37	.20	.31	2.9	3.4	5.2
8	59	4.6	e.61	1.3	1.3	.54	.37	.20	.31	2.2	2.3	6.3
9	50	4.1	e.64	1.3	1.3	.51	.36	.19	.33	1.7	1.4	5.7
10	43	3.9	e.61	1.5	1.3	.51	.36	.18	.32	1.6	.99	3.4
11	40	3.2	e.63	1.4	1.2	.52	.35	.17	.32	1.4	.83	2.5
12	36	2.4	e.67	1.3	1.2	.52	.34	.16	.31	1.1	3.5	7.3
13	29	2.1	e1.7	1.3	1.1	.48	.31	.17	.32	.94	4.1	5.0
14	23	2.2	e1.5	1.2	1.1	.55	.29	.19	.35	.85	2.5	3.4
15	21	2.1	e1.2	1.3	.99	.68	.27	.18	.47	.87	2.1	3.2
16	20	2.1	e1.1	1.2	.98	.60	.26	.15	1.9	.77	1.4	2.3
17	16	2.0	.96	1.2	.96	.53	.32	.15	7.9	.65	.98	1.8
18	14	1.9	.92	1.2	.92	.49	.32	.15	27	.60	1.5	10
19	14	2.0	.88	1.2	.87	.49	.28	.15	9.2	.70	10	11
20	12	2.0	.88	1.2	.86	.46	.27	.14	7.0	.73	6.8	17
21	9.2	e2.1	.91	1.2	.88	.74	.27	.17	5.3	1.3	7.4	38
22	8.7	e1.9	.92	1.1	.84	.71	.25	.17	4.2	1.3	5.2	32
23	8.2	e1.5	.91	1.1	.79	.53	.22	.68	3.5	.97	5.5	29
24	8.0	e1.2	.89	3.4	.74	.47	.21	.55	6.3	.93	6.5	29
25	7.6	e1.1	.88	3.1	.71	.44	.22	.34	4.7	.79	4.4	35
26	7.2	e.92	.92	2.8	.65	.43	.22	.24	4.1	.69	8.2	47
27	5.9	e.89	.96	2.3	.64	.42	.21	.21	3.4	.68	6.5	47
28	4.5	e.88	.93	2.1	.65	.38	.20	.20	3.0	.59	4.0	50
29	3.2	e.87	.99	2.0	---	.38	.19	.24	2.5	.51	2.7	48
30	2.5	e.82	1.1	1.9	---	.37	.22	.38	2.6	.57	1.8	45
31	2.3	---	1.0	1.7	---	.37	---	.29	---	1.4	1.3	---
TOTAL	1179.3	71.68	27.94	50.29	30.58	16.47	8.89	7.05	98.18	56.04	103.29	491.60
MEAN	38.0	2.39	.90	1.62	1.09	.53	.30	.23	3.27	1.81	3.33	16.4
MAX	133	6.4	1.7	3.4	1.7	.77	.37	.68	27	6.1	10	50
MIN	2.3	.82	.61	.99	.64	.37	.19	.14	.26	.51	.57	.80
CFSM	2.14	.13	.05	.09	.06	.03	.02	.01	.18	.10	.19	.92
IN.	2.46	.15	.06	.11	.06	.03	.02	.01	.21	.12	.22	1.03

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1999, BY WATER YEAR (WY)

MEAN	16.3	8.21	12.4	11.1	12.8	14.5	7.32	1.35	4.05	9.66	15.8	29.2
MAX	56.6	44.3	129	98.0	111	103	41.7	4.11	13.5	29.5	72.4	127
(WY)	1996	1998	1998	1998	1998	1998	1987	1998	1991	1991	1991	1988
MIN	.009	.051	.16	.19	.34	.060	.002	.033	.004	.36	.061	.52
(WY)	1994	1994	1994	1992	1994	1994	1994	1992	1994	1992	1993	1993

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1986 - 1999	
ANNUAL TOTAL	14619.53		2141.31			
ANNUAL MEAN	40.1		5.87		11.9	
HIGHEST ANNUAL MEAN					53.3	1998
LOWEST ANNUAL MEAN					2.16	1992
HIGHEST DAILY MEAN	265	Mar 20	133	Oct 1	336	Sep 9 1988
LOWEST DAILY MEAN	.40	Jul 6	.14	May 20	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.62	Dec 5	.15	May 16	.00	Apr 25 1990
INSTANTANEOUS PEAK FLOW			136	Oct 1	366	Dec 27 1997
INSTANTANEOUS PEAK STAGE			21.80	Oct 1	25.52	Dec 27 1997
ANNUAL RUNOFF (CFSM)	2.25		.33		.67	
ANNUAL RUNOFF (INCHES)	30.55		4.48		9.07	
10 PERCENT EXCEEDS	127		9.2		29	
50 PERCENT EXCEEDS	14		1.1		2.8	
90 PERCENT EXCEEDS	.93		.26		.19	

02306904 BRUSHY CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°05'03", long 82°31'29", in NE$^1/_4$ 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^2.

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 and miscellaneous discharge measurements 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, 9.62 ft, Aug. 18; dry many days.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.07	---	---	---	---	---	---	---	---	7.64	6.86	6.86
2	8.93	---	---	---	---	---	---	---	---	7.30	6.83	7.35
3	8.71	---	---	---	---	---	---	---	---	7.35	6.74	7.08
4	8.53	---	---	---	---	---	---	---	---	7.38	6.67	6.96
5	8.38	6.87	---	---	---	---	---	---	---	7.14	6.88	6.88
6	8.24	6.70	---	---	---	---	---	---	---	7.01	7.60	7.27
7	8.13	---	---	---	---	---	---	---	---	6.92	7.18	7.41
8	8.03	---	---	---	---	---	---	---	---	6.91	6.95	7.24
9	7.93	---	---	---	---	---	---	---	---	6.90	6.83	7.09
10	7.84	---	---	---	---	---	---	---	---	6.84	6.74	6.95
11	7.73	---	---	---	---	---	---	---	---	6.81	6.69	6.89
12	7.61	---	---	---	---	---	---	---	---	6.80	6.79	6.94
13	7.54	---	---	---	---	---	---	---	---	7.18	---	6.81
14	7.52	---	---	---	---	---	---	---	---	7.14	---	6.76
15	7.49	---	---	---	---	---	---	---	6.82	7.05	---	6.73
16	7.38	---	---	---	---	---	---	---	6.69	7.03	---	---
17	7.28	---	---	---	---	---	---	---	7.68	6.95	---	---
18	7.22	---	---	---	---	---	---	---	8.15	6.99	---	7.70
19	7.17	---	---	---	---	---	---	---	7.42	6.97	8.02	7.73
20	7.12	---	---	---	---	---	---	---	7.16	6.93	7.43	8.16
21	6.94	---	---	---	---	---	---	---	7.02	7.01	7.13	8.50
22	7.10	---	---	---	---	---	---	---	6.92	6.93	7.03	7.93
23	7.02	---	---	---	---	---	---	---	6.88	6.91	7.17	7.58
24	6.94	---	---	---	---	---	---	---	6.88	6.84	7.01	7.39
25	6.89	---	---	---	---	---	---	---	6.82	6.76	7.43	7.33
26	6.82	---	---	---	---	---	---	---	6.94	6.72	7.89	7.37
27	---	---	---	---	---	---	---	---	7.14	6.75	7.44	7.29
28	6.76	---	---	---	---	---	---	---	7.06	6.68	7.18	7.21
29	---	---	---	---	---	---	---	---	6.95	6.64	7.04	7.14
30	6.67	---	---	---	---	---	---	---	7.07	6.97	6.95	7.08
31	6.73	---	---	---	---	---	---	---	---	6.94	6.88	---
MEAN	---	---	---	---	---	---	---	---	---	6.98	---	---
MAX	---	---	---	---	---	---	---	---	---	7.64	---	---
MIN	---	---	---	---	---	---	---	---	---	6.64	---	---

02306950 BRUSHY CREEK NEAR CITRUS PARK, FL

LOCATION.--Lat 28°03'53", long 82°33'20", in SW 1/4 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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	3.5	1.6	5.4	5.3	1.6	.76	.40	.74	30	7.9	5.3
2	79	2.8	1.6	7.0	3.3	3.3	.69	.41	.53	23	8.9	10
3	68	2.9	1.4	14	5.1	3.3	.63	.36	5.4	19	7.2	11
4	62	2.9	1.4	12	4.8	1.3	.58	.12	6.4	27	3.5	6.0
5	54	8.9	1.4	8.9	3.2	1.1	.53	.06	4.9	19	5.5	6.3
6	49	6.0	1.5	7.1	4.4	.88	.48	.06	1.6	12	19	8.0
7	40	4.4	1.6	4.4	2.4	.85	.54	.06	.88	9.7	24	21
8	36	2.3	1.6	4.0	2.1	2.4	.64	.05	.69	8.0	15	20
9	32	1.9	1.7	3.7	2.1	2.9	.64	.05	1.2	6.4	8.1	17
10	29	2.5	1.2	6.2	2.0	1.0	.61	.04	18	7.8	6.1	11
11	20	2.4	.74	7.1	2.0	.76	.58	.03	11	5.8	3.6	9.0
12	17	2.3	.88	4.9	3.8	.81	.53	.03	3.6	5.6	8.4	11
13	21	2.0	3.0	5.6	3.4	.58	.38	.03	4.4	6.2	8.4	10
14	14	1.8	9.9	7.0	3.1	.88	.30	.05	8.5	33	6.9	7.0
15	14	1.7	7.6	5.4	1.6	2.4	.31	.35	17	21	5.4	7.1
16	12	1.8	6.9	3.5	2.4	1.6	.46	.63	14	13	4.8	4.7
17	10	2.3	4.2	3.3	1.5	1.3	.76	.20	38	12	3.9	3.3
18	9.1	1.8	4.5	3.4	1.4	1.1	1.4	e.74	110	9.8	11	20
19	9.8	1.8	4.9	4.7	2.7	.88	1.1	e.69	49	9.3	83	28
20	9.1	1.8	2.4	4.4	1.5	.80	.76	e.68	27	7.5	44	52
21	7.7	1.7	4.9	4.5	1.3	2.1	.58	e.79	22	6.9	22	95
22	8.3	1.7	2.5	8.0	1.6	5.6	.49	e1.2	18	4.6	15	58
23	8.4	1.6	2.1	4.5	2.8	3.3	.36	e2.4	19	5.4	19	31
24	7.2	1.6	2.0	25	1.5	2.5	.23	e6.2	20	4.1	19	21
25	6.1	1.6	1.9	22	1.2	2.1	.15	6.9	12	3.0	14	17
26	4.8	1.6	2.1	14	1.2	1.8	.14	3.8	12	2.7	44	18
27	3.0	1.0	3.4	8.0	1.1	1.6	.13	.71	17	2.6	24	16
28	3.3	1.1	6.1	4.8	1.2	1.4	.14	.44	13	2.4	17	14
29	3.2	1.6	3.3	7.3	---	1.2	.20	.43	13	1.8	10	11
30	2.4	1.6	5.7	4.7	---	1.0	.39	1.7	11	6.5	11	8.4
31	4.0	---	4.8	5.2	---	.84	---	1.3	---	16	7.7	---
TOTAL	724.4	72.9	98.82	230.0	70.0	53.18	15.49	30.91	479.84	341.1	487.3	557.1
MEAN	23.4	2.43	3.19	7.42	2.50	1.72	.52	1.00	16.0	11.0	15.7	18.6
MAX	81	8.9	9.9	25	5.3	5.6	1.4	6.9	110	33	83	95
MIN	2.4	1.0	.74	3.3	1.1	.58	.13	.03	.53	1.8	3.5	3.3

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	19.8	12.7	29.3	21.4	26.7	17.1	7.08	3.35	13.2	21.6	26.8	33.0
MAX	41.6	56.7	152	82.5	125	78.8	13.2	5.48	23.2	36.0	38.3	76.4
(WY)	1996	1998	1998	1998	1998	1998	1998	1997	1995	1998	1994	1998
MIN	4.16	1.84	2.39	3.55	2.50	1.13	.52	.77	1.24	8.29	13.8	14.7
(WY)	1994	1997	1994	1997	1999	1997	1999	1995	1998	1996	1996	1996

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	14350.26		3161.04			
ANNUAL MEAN	39.3		8.66		19.3	
HIGHEST ANNUAL MEAN					56.3	1998
LOWEST ANNUAL MEAN					8.66	1999
HIGHEST DAILY MEAN	409	Feb 17	110	Jun 18	542	Dec 27 1997
LOWEST DAILY MEAN	.02	Jun 14	.03	May 11	.01	Apr 18 1994
ANNUAL SEVEN-DAY MINIMUM	.10	Jun 14	.04	May 8	.04	May 8 1999
INSTANTANEOUS PEAK FLOW			150	Jun 18	775	Dec 27 1997
INSTANTANEOUS PEAK STAGE			5.59	Jun 18	12.92	Dec 27 1997
10 PERCENT EXCEEDS	104		20		46	
50 PERCENT EXCEEDS	17		3.8		7.0	
90 PERCENT EXCEEDS	1.1		.56		1.0	

02306950 BRUSHY CREEK NEAR CITRUS PARK, FL--Continued

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.70	2.65	2.56	2.65	2.73	2.45	2.34	2.28	2.36	3.43	2.84	2.75
2	4.64	2.62	2.56	2.72	2.61	2.60	2.33	2.28	2.32	3.27	2.88	2.95
3	4.27	2.63	2.55	3.00	2.73	2.60	2.33	2.27	2.74	3.21	2.80	2.98
4	4.06	2.63	2.55	2.92	2.71	2.41	2.32	2.18	2.81	3.38	2.62	2.79
5	3.81	2.84	2.55	2.79	2.61	2.38	2.31	2.15	2.73	3.19	2.73	2.80
6	3.70	2.75	2.55	2.71	2.69	2.36	2.30	2.15	2.48	3.00	3.16	2.85
7	3.54	2.69	2.55	2.57	2.54	2.36	2.31	2.15	2.38	2.91	3.30	3.26
8	3.47	2.65	2.55	2.55	2.52	2.52	2.33	2.15	2.35	2.85	3.08	3.24
9	3.39	2.62	2.55	2.52	2.51	2.56	2.33	2.15	2.40	2.78	2.84	3.15
10	3.33	2.61	2.49	2.65	2.50	2.38	2.32	2.13	3.17	2.84	2.76	2.97
11	3.31	2.60	2.45	2.68	2.49	2.34	2.32	2.13	2.99	2.74	2.62	2.91
12	3.21	2.60	2.46	2.57	2.64	2.35	2.31	2.13	2.65	2.74	2.85	3.00
13	3.14	2.59	2.61	2.60	2.61	2.32	2.28	2.13	2.70	2.74	2.86	2.94
14	3.09	2.57	2.94	2.66	2.58	2.36	2.26	2.15	2.89	3.47	2.80	2.84
15	3.12	2.57	2.84	2.58	2.45	2.54	2.26	2.24	3.16	3.24	2.73	2.84
16	3.05	2.58	2.81	2.48	2.53	2.45	2.29	2.32	3.07	3.03	2.69	2.72
17	2.98	2.60	2.67	2.46	2.44	2.41	2.34	2.23	3.55	2.99	2.64	2.63
18	2.93	2.58	2.68	2.46	2.43	2.38	2.42	---	4.89	2.91	2.77	3.18
19	2.96	2.57	2.69	2.53	2.56	2.36	2.39	---	3.74	2.90	4.39	3.41
20	2.94	2.57	2.54	2.51	2.44	2.35	2.35	---	3.37	2.83	3.67	3.81
21	2.81	2.57	2.69	2.51	2.42	2.48	2.32	---	3.27	2.80	3.28	4.63
22	2.83	2.57	2.54	2.67	2.45	2.75	2.30	---	3.15	2.68	3.11	3.93
23	2.83	2.56	2.51	2.50	2.56	2.61	2.27	---	3.17	2.73	3.21	3.49
24	2.79	2.56	2.50	3.22	2.43	2.55	2.24	---	3.21	2.65	3.21	3.30
25	2.76	2.56	2.48	3.14	2.40	2.51	2.21	2.83	2.99	2.58	3.09	3.20
26	2.76	2.56	2.49	2.98	2.40	2.48	2.21	2.64	2.98	2.55	3.67	3.22
27	2.67	2.56	2.56	2.87	2.39	2.46	2.20	2.36	3.14	2.55	3.34	3.18
28	2.64	2.56	2.71	2.72	2.40	2.43	2.20	2.31	3.03	2.53	3.17	3.12
29	2.64	2.56	2.55	2.84	---	2.40	2.23	2.30	3.01	2.47	2.95	3.02
30	2.60	2.56	2.68	2.70	---	2.38	2.28	2.49	2.97	2.70	2.97	2.93
31	2.68	---	2.63	2.73	---	2.36	---	2.45	---	3.12	2.87	---
MEAN	3.21	2.60	2.60	2.69	2.53	2.45	2.30	---	2.99	2.90	3.03	3.13
MAX	4.70	2.84	2.94	3.22	2.73	2.75	2.42	---	4.89	3.47	4.39	4.63
MIN	2.60	2.56	2.45	2.46	2.39	2.32	2.20	---	2.32	2.47	2.62	2.63

02307000 ROCKY CREEK NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'12", long 82°34'34", in NW$^1/_4$ 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.--35 mi^2, approximately.

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. Maximum discharge, 203 ft^3/s, Oct. 1, gage height 6.43 ft, occurred on recession following peak of Sept. 27, 1998; maximum independent peak discharge, 181 ft^3/s, Sept. 21, gage height 6.21 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	198	2.9	2.4	3.3	8.9	1.6	.00	1.2	2.2	39	17	29
2	195	2.3	2.3	3.8	4.7	1.6	.00	.77	1.7	41	16	29
3	173	2.1	2.3	15	6.1	2.8	.00	.00	4.4	36	15	27
4	150	3.0	1.3	11	6.3	.23	.60	.00	6.4	43	8.2	19
5	135	9.8	1.1	7.8	4.1	.00	.73	.00	6.9	35	8.9	19
6	122	12	1.6	4.6	5.9	.00	.56	.00	4.4	26	22	23
7	107	9.5	1.8	2.6	3.5	.00	.92	.00	3.1	22	31	46
8	87	6.6	1.7	2.5	2.5	.31	1.0	.00	2.9	18	24	51
9	70	5.4	1.5	2.5	2.5	2.6	.75	.00	2.6	16	17	44
10	66	4.5	1.5	3.4	2.5	.27	.47	.00	10	13	11	38
11	63	3.9	1.5	5.1	2.7	.00	.58	.00	13	10	8.8	34
12	60	3.2	1.5	2.8	3.5	.17	.82	.00	6.2	7.3	16	39
13	52	3.0	4.4	3.1	2.5	.55	1.0	.00	5.8	7.4	20	35
14	43	2.6	10	3.1	4.0	1.1	.84	.51	8.1	27	18	27
15	41	2.4	9.2	3.8	2.0	1.5	.60	.66	24	26	14	28
16	38	2.0	6.8	1.9	2.5	1.1	.74	.33	20	22	13	22
17	33	2.6	4.9	1.5	2.3	.78	2.0	.02	28	19	12	20
18	29	2.0	3.8	1.5	1.6	.78	1.7	.00	114	19	17	39
19	28	2.0	4.2	1.7	2.0	.58	1.7	.00	64	16	87	57
20	26	2.0	2.4	1.8	1.6	.26	1.8	.05	43	15	69	83
21	20	2.3	3.3	1.5	.50	.47	1.9	.60	37	13	51	161
22	18	2.4	2.9	2.9	.50	4.5	1.6	3.9	35	12	40	138
23	18	2.5	1.9	2.5	2.3	2.2	.00	.93	33	10	40	105
24	17	2.5	1.8	22	1.0	1.5	.13	3.3	47	10	40	91
25	14	2.5	1.5	26	1.0	1.4	.00	5.5	35	8.5	32	87
26	14	2.8	1.6	16	1.1	1.1	.29	4.7	30	8.6	53	100
27	12	2.3	1.5	11	1.3	1.2	.00	1.9	31	8.1	45	103
28	8.2	2.0	4.0	7.0	1.2	1.4	.20	1.6	29	8.4	39	101
29	6.7	1.9	3.2	9.8	---	.24	.50	2.5	24	8.0	29	98
30	4.2	2.0	3.5	8.9	---	.00	1.3	2.9	23	11	29	91
31	4.3	---	3.2	6.0	---	.00	---	3.6	---	24	24	---
TOTAL	1852.4	107.0	94.6	196.4	80.60	30.24	22.73	34.97	694.7	579.3	866.9	1784
MEAN	59.8	3.57	3.05	6.34	2.88	.98	.76	1.13	23.2	18.7	28.0	59.5
MAX	198	12	10	26	8.9	4.5	2.0	5.5	114	43	87	161
MIN	4.2	1.9	1.1	1.5	.50	.00	.00	.00	1.7	7.3	8.2	19
CFSM	1.71	.10	.09	.18	.08	.03	.02	.03	.66	.53	.80	1.70
IN.	1.97	.11	.10	.21	.09	.03	.02	.04	.74	.62	.92	1.90

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 1999, BY WATER YEAR (WY)

MEAN	37.3	16.9	22.0	24.2	29.6	43.1	22.3	14.3	23.6	44.3	86.9	95.1
MAX	139	128	327	196	259	298	110	148	123	224	290	396
(WY)	1996	1998	1998	1998	1998	1960	1987	1979	1982	1960	1959	1979
MIN	2.21	1.11	1.44	2.35	2.48	.98	.27	.63	.58	1.86	4.33	8.31
(WY)	1971	1979	1971	1957	1957	1999	1967	1955	1955	1955	1993	1972

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1954 - 1999	
ANNUAL TOTAL	29567.9		6343.84			
ANNUAL MEAN	81.0		17.4		38.4	
HIGHEST ANNUAL MEAN					119	1998
LOWEST ANNUAL MEAN					4.73	1956
HIGHEST DAILY MEAN	890	Mar 20	198	Oct 1	2290	Mar 17 1960
LOWEST DAILY MEAN	1.1	Dec 5	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	1.5	Dec 4	.00	May 3	.00	Apr 7 1967
INSTANTANEOUS PEAK FLOW			203	Oct 1	2840	Jul 29 1960
INSTANTANEOUS PEAK STAGE			6.43	Oct 1	17.18	Jul 29 1960
ANNUAL RUNOFF (CFSM)	2.31		.50		1.10	
ANNUAL RUNOFF (INCHES)	31.43		6.74		14.89	
10 PERCENT EXCEEDS	232		43		94	
50 PERCENT EXCEEDS	27		4.0		13	
90 PERCENT EXCEEDS	2.4		.32		2.6	

02307200 BROOKER CREEK AT VAN DYKE ROAD NEAR CITRUS PARK, FL

LOCATION.--Lat 28°07'34", long 82°34'14", in NE$^1/_4$ 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^2.

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. Maximum discharge, 13 ft^3/s, Oct. 1, gage height 19.34 ft, occurred on recession following peak of Sept. 26, 1998; maximum independent peak discharge, 9.8 ft^3/s, Sept. 28, gage height 18.95 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
2	11	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00
3	9.2	.00	.00	.00	.00	.00	.00	.00	.00	.30	.00	.00
4	7.9	.00	.00	.00	.00	.00	.00	.00	.00	.36	.00	.00
5	6.6	.07	.00	.00	.00	.00	.00	.00	.00	.28	.00	.00
6	5.8	.05	.00	.00	.00	.00	.00	.00	.00	.15	.00	.00
7	5.0	.02	.00	.00	.00	.00	.00	.00	.00	.07	.01	.00
8	4.4	.01	.00	.00	.00	.00	.00	.00	.00	.03	.00	.00
9	3.8	.01	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
10	3.4	.01	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
11	2.9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	2.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	2.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	1.7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	1.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	1.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.88	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
18	.76	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.46
19	.62	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.63
20	.48	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	1.3
21	.36	.00	.00	.00	.00	.00	.00	.00	.00	.03	.00	2.3
22	.28	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	1.9
23	.20	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	1.3
24	.13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.88
25	.09	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	1.1
26	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.5
27	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.6
28	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.3
29	.01	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	6.4
30	.01	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	4.2
31	.01	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	84.54	0.17	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.70	0.01	35.88
MEAN	2.73	.006	.000	.000	.000	.000	.000	.000	.000	.055	.000	1.20
MAX	12	.07	.00	.01	.00	.00	.00	.00	.00	.36	.01	9.3
MIN	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
AC-FT	168	.3	.00	.02	.00	.00	.00	.00	.00	3.4	.02	71

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1999, BY WATER YEAR (WY)

MEAN	3.88	1.84	3.21	3.39	3.71	4.84	2.65	.27	1.30	2.91	5.43	9.40
MAX	14.4	13.9	34.3	17.7	20.5	19.0	16.1	1.46	16.9	15.4	17.8	41.5
(WY)	1996	1998	1998	1998	1998	1987	1987	1991	1982	1982	1982	1988
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1985	1985	1985	1985	1985	1985	1985	1985	1985	1988	1992	1993

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1982 - 1999	
ANNUAL TOTAL	2704.59		122.31			
ANNUAL MEAN	7.41		.34		3.57	
HIGHEST ANNUAL MEAN					11.7	1998
LOWEST ANNUAL MEAN					.30	1992
HIGHEST DAILY MEAN	52	Feb 20	12	Oct 1	200	Sep 9 1988
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 4	.00	Nov 11	.00	Nov 26 1981
INSTANTANEOUS PEAK FLOW			13	Oct 1	208	Sep 9 1988
INSTANTANEOUS PEAK STAGE			19.34	Oct 1	21.53	Sep 9 1988
ANNUAL RUNOFF (AC-FT)	5360		243		2580	
10 PERCENT EXCEEDS	20		.32		11	
50 PERCENT EXCEEDS	3.5		.00		.52	
90 PERCENT EXCEEDS	.00		.00		.00	

02307359 BROOKER CREEK NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°05'45", long 82°41'15", in NE$^1/_4$ 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^2, 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. Maximum discharge, 97 ft^3/s, Oct. 1, gage height 11.08 ft, occurred on recession following peak of Sept. 29, 1998; maximum independent peak discharge, 62 ft^3/s, Aug. 16, gage height 10.65 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	.96	.20	.10	1.8	.21	.11	.00	.00	1.1	.66	1.8
2	86	.80	.19	.23	1.6	.14	.09	.00	.00	1.8	.48	1.4
3	77	.69	.16	.83	1.5	.13	.08	.00	.00	1.6	.46	.91
4	70	.79	.16	.52	1.4	.10	.06	.00	.00	3.7	.34	.52
5	64	2.0	.15	.36	1.4	.08	.05	.00	.00	12	.26	.32
6	59	2.6	.13	.30	1.3	.08	.04	.00	.00	14	4.1	2.9
7	55	2.5	.11	.27	1.2	.08	.02	.00	.00	11	8.1	8.0
8	49	2.4	.10	.26	1.1	.07	.02	.00	.00	7.8	6.9	10
9	43	2.2	.10	.26	1.0	.06	.01	.00	.00	5.5	5.0	12
10	38	1.9	.09	.47	1.0	.06	.00	.00	.00	4.4	3.6	10
11	33	1.7	.09	.38	.98	.05	.00	.00	.00	3.1	2.6	7.8
12	29	1.5	.08	.31	.95	.05	.00	.00	.00	2.2	6.7	5.9
13	24	1.2	.28	.34	.79	.04	.00	.00	.00	1.6	17	4.4
14	19	1.2	.37	.30	.64	.68	.00	.00	.00	1.3	21	3.2
15	15	1.2	.26	.28	.59	1.8	.00	.00	.00	2.3	48	2.7
16	12	1.2	.19	.29	.43	1.4	.00	.00	.00	2.2	59	2.0
17	9.9	1.0	.16	.31	.39	1.3	.00	.00	.28	1.4	45	1.4
18	8.2	.88	.13	.34	.36	1.4	.02	.00	2.7	1.5	32	5.0
19	7.0	.79	.12	.41	.32	1.3	.01	.00	1.5	12	22	8.4
20	6.1	.74	.11	.41	.28	1.3	.00	.00	1.2	20	16	13
21	5.3	.64	.11	.40	.23	2.0	.00	.00	1.3	19	15	24
22	4.8	.54	.11	.40	.20	2.4	.00	.00	1.3	13	16	30
23	4.5	.48	.10	.48	.15	2.0	.00	.00	1.3	8.5	23	30
24	4.2	.43	.09	2.9	.14	1.7	.00	.00	4.8	5.6	17	26
25	3.6	.39	.09	3.1	.13	1.6	.00	.00	1.7	3.8	13	23
26	3.0	.37	.11	3.1	.12	1.4	.00	.00	1.2	2.8	11	22
27	2.4	.32	.12	3.1	.10	1.1	.00	.00	1.8	2.2	8.0	20
28	2.2	.27	.12	2.9	.14	.70	.00	.00	2.0	1.6	6.0	18
29	1.8	.24	.15	2.5	---	.42	.00	.00	1.6	1.1	4.9	15
30	1.5	.23	.16	2.2	---	.24	.00	.00	1.2	1.1	3.7	12
31	1.2	---	.11	1.9	---	.13	---	.00	---	.99	2.5	---
TOTAL	830.7	32.16	4.45	29.95	20.24	24.02	0.51	0.00	23.88	170.19	419.30	321.65
MEAN	26.8	1.07	.14	.97	.72	.77	.017	.000	.80	5.49	13.5	10.7
MAX	92	2.6	.37	3.1	1.8	2.4	.11	.00	4.8	20	59	30
MIN	1.2	.23	.08	.10	.10	.04	.00	.00	.00	.99	.26	.32
CFSM	.89	.04	.00	.03	.02	.03	.00	.00	.03	.18	.45	.36
IN.	1.03	.04	.01	.04	.03	.03	.00	.00	.03	.21	.52	.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1999, BY WATER YEAR (WY)

MEAN	20.7	7.06	9.76	11.6	15.8	25.2	11.8	2.98	5.77	18.8	43.6	50.6
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	.012	.002	.010	.003	.048	.030	.000	.000	.000	.001	.019	.69
(WY)	1973	1979	1992	1957	1968	1968	1956	1956	1951	1971	1993	1993

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1951 - 1999	
ANNUAL TOTAL	14559.03		1877.05			
ANNUAL MEAN	39.9		5.14		18.7	
HIGHEST ANNUAL MEAN					86.8	1959
LOWEST ANNUAL MEAN					1.97	1992
HIGHEST DAILY MEAN	389	Feb 17	92	Oct 1	1540	Mar 17 1960
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 8	.00	Apr 10	.00	May 17 1951
INSTANTANEOUS PEAK FLOW			97	Oct 1	1600	Mar 17 1960
INSTANTANEOUS PEAK STAGE			11.08	Oct 1	13.32	Mar 17 1960
ANNUAL RUNOFF (CFSM)	1.33		.17		.62	
ANNUAL RUNOFF (INCHES)	18.05		2.33		8.45	
10 PERCENT EXCEEDS	108		15		50	
50 PERCENT EXCEEDS	10		.74		3.0	
90 PERCENT EXCEEDS	.01		.00		.00	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
10...	0805	7.98	1.9	157	5.10	17.0	320	3.0	15	2.4	11	2.1
JAN												
05...	0906	7.67	.36	335	5.88	10.0	200	4.3	35	4.0	23	2.3
JUL												
14...	1235	7.86	1.1	277	6.01	26.1	480	2.7	27	4.0	22	2.1
28...	0845	7.95	1.7	203	5.53	25.9	560	1.6	18	2.9	19	2.1
AUG												
04...	1032	7.58	.39	245	6.04	26.3	480	1.7	25	3.3	21	2.4
SEP												
22...	0940	9.87	30	160	5.96	23.9	320	2.6	15	2.1	13	2.2

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
10...	6.3	24	<.10	9.5	162	<.01	.04	.07	1.4	.05	.04	48
JAN												
05...	16	52	<.10	9.1	259	<.01	.05	.07	1.2	.02	.02	91
JUL												
14...	19	47	.10	10	287	.01	.06	.09	2.2	.04	.03	88
28...	3.4	39	.11	9.6	265	<.01	.04	.05	1.9	.04	.03	60
AUG												
04...	5.8	43	.15	9.7	281	<.01	.07	.09	2.4	.06	.04	74
SEP												
22...	4.2	27	.18	8.3	183	<.01	<.02	.02	1.0	<.02	.02	47

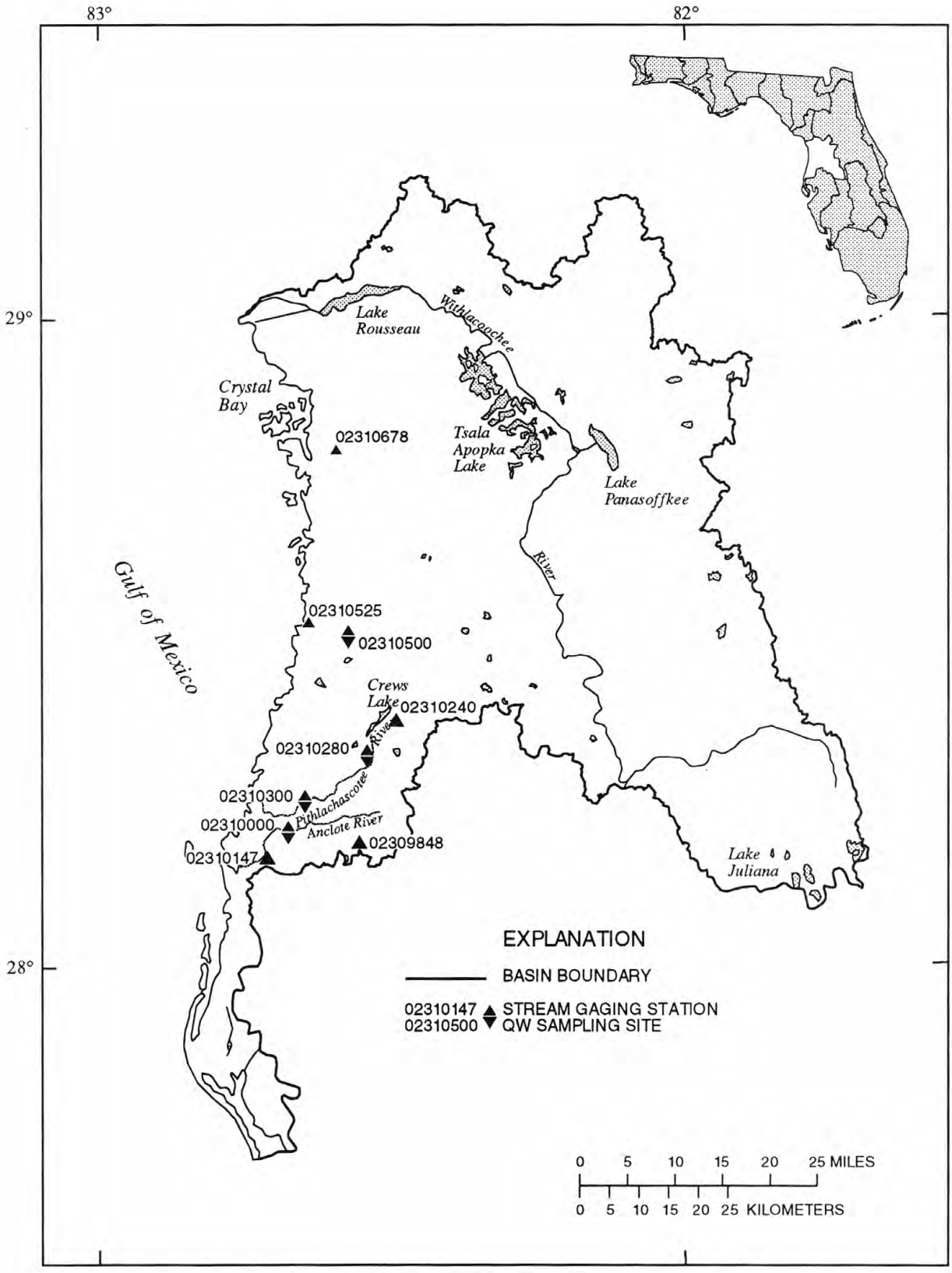

Figure 16.--Location of stream gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

02309848 SOUTH BRANCH ANCLOTE RIVER NEAR ODESSA, FL

LOCATION.--Lat 28°11'08", long 82°33'13", in SE$^1/_4$ sec.25, T.26 S., R.17 E., Pasco County, Hydrologic Unit 03100207, near left bank, 30 ft downstream from bridge 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^2.

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.

REMARKS.--Records fair. Maximum discharge, 43 ft^3/s, Oct. 1, gage height 4.20 ft, occurred on recession following peak of Sept. 23, 1998; maximum independent peak discharge, 10 ft^3/s, Sept. 27, gage height 3.40 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	.78	1.2	.04	.23	.00	.00	.00	.00	.00	.00	.00
2	36	.70	.89	.03	.21	.00	.00	.00	.00	.00	.00	.00
3	30	.51	.98	.80	.16	.00	.00	.00	.00	.00	.00	.00
4	25	.52	1.2	.39	.12	.00	.00	.00	.00	.00	.00	.00
5	22	1.4	.94	.15	.10	.00	.00	.00	.00	.00	.00	.00
6	21	1.3	.91	.04	.05	.00	.00	.00	.00	.00	.00	.00
7	19	.93	.84	.00	.01	.00	.00	.00	.00	.00	.00	.00
8	16	.68	.80	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	12	.54	.76	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	11	.43	.86	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	9.7	.41	.87	.00	.00	.00	.00	.00	.00	.00	.00	.62
12	7.6	.51	.82	.00	.00	.00	.00	.00	.00	.00	.00	.55
13	6.6	.46	1.1	.00	.00	.00	.00	.00	.00	.17	.00	.21
14	5.8	.34	1.7	.00	.00	.00	.00	.00	.00	.00	.00	.12
15	5.4	.24	1.4	.00	.00	.00	.00	.00	.00	.00	.00	.08
16	4.9	.14	.98	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	4.3	.06	1.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	3.7	.01	.71	.00	.00	.00	.00	.00	.00	.00	.00	.30
19	3.4	.00	.68	.00	.00	.00	.00	.00	.00	.00	.00	.98
20	3.0	1.0	.84	.00	.00	.00	.00	.00	.00	.00	.00	2.1
21	2.6	1.4	.61	.00	.00	.00	.00	.00	.00	.00	.00	3.3
22	2.1	.61	.88	.00	.00	.00	.00	.00	.00	.00	.00	1.2
23	1.7	.28	1.0	.01	.00	.00	.00	.00	.00	.00	.00	.58
24	1.3	.10	.48	1.1	.00	.00	.00	.00	.00	.00	.00	.37
25	1.2	.02	.20	2.0	.00	.00	.00	.00	.00	.00	.00	2.8
26	1.2	.06	.09	1.4	.00	.00	.00	.00	.00	.00	.00	3.9
27	1.4	.12	.13	.86	.00	.00	.00	.00	.00	.00	.00	3.6
28	1.4	.08	.63	.60	.00	.00	.00	.00	.00	.00	.00	6.5
29	1.2	.38	.57	.45	---	.00	.00	.00	.00	.00	.00	3.4
30	.87	.58	.39	.34	---	.00	.00	.00	.00	.00	.00	2.5
31	.74	---	.16	.26	---	.00	---	.00	---	.00	.00	---
TOTAL	303.11	14.59	24.62	8.47	0.88	0.00	0.00	0.00	0.00	0.17	0.00	33.11
MEAN	9.78	.49	.79	.27	.031	.000	.000	.000	.000	.005	.000	1.10
MAX	41	1.4	1.7	2.0	.23	.00	.00	.00	.00	.17	.00	6.5
MIN	.74	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1999, BY WATER YEAR (WY)

MEAN	2.61	1.29	1.90	1.95	3.32	3.34	1.58	.89	1.79	2.99	7.05	12.9
MAX	11.5	28.1	38.3	30.9	47.2	30.4	18.1	16.2	22.9	16.3	34.2	79.8
(WY)	1980	1998	1998	1998	1998	1998	1987	1979	1974	1987	1979	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1971	1971	1971	1971	1976	1976	1971	1971	1971	1972	1972	1972

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1971 - 1999	
ANNUAL TOTAL	6697.52		384.95			
ANNUAL MEAN	18.3		1.05		3.46	
HIGHEST ANNUAL MEAN					23.8	1998
LOWEST ANNUAL MEAN					.59	1992
HIGHEST DAILY MEAN	287	Sep 24	41	Oct 1	287	Sep 24 1998
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Apr 19	.00	Jan 7	.00	Oct 1 1970
INSTANTANEOUS PEAK FLOW			43	Oct 1	330	Sep 23 1998
INSTANTANEOUS PEAK STAGE			4.20	Oct 1	5.26	Sep 23 1998
10 PERCENT EXCEEDS	46		1.4		6.8	
50 PERCENT EXCEEDS	3.9		.00		.01	
90 PERCENT EXCEEDS	.00		.00		.00	

02310000 ANCLOTE RIVER NEAR ELFERS, FL

LOCATION.--Lat 28°12'50", long 82°40'00", in NE$^1/_4$ sec.23, T.26 S., R.16 E., Pasco County, Hydrologic Unit 03100207, on left bank, 40 ft downstream from bridge on State Highway 54, 3.5 mi east of Elfers, and 16 mi upstream from mouth.
DRAINAGE AREA.--72.5 mi^2.

WATER-DISCHARGE RECORDS

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.
REMARKS.--Records fair.
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^3/s, from rating curve extended above 3,700 ft^3/s.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	411	11	4.5	5.3	8.6	4.8	4.8	4.2	5.9	7.0	3.7	4.3
2	340	11	4.4	5.4	8.0	5.1	3.2	3.9	4.0	8.7	3.7	5.8
3	298	11	4.3	7.6	7.7	5.0	2.9	3.6	3.3	6.5	3.9	4.1
4	252	12	4.5	6.1	7.3	4.8	2.8	3.5	3.6	6.7	3.6	3.8
5	204	18	4.5	5.9	6.9	4.4	2.9	3.3	4.2	5.4	3.5	3.6
6	170	17	4.3	6.8	6.5	4.6	2.8	3.2	4.2	4.8	3.6	6.0
7	141	16	4.3	6.9	6.3	4.6	2.7	3.2	3.7	4.5	3.7	8.1
8	119	14	4.3	6.8	6.2	4.4	2.7	3.0	3.5	4.0	3.6	7.2
9	107	13	4.3	8.8	6.0	4.0	2.6	3.1	3.4	3.8	3.6	5.4
10	93	11	4.5	8.6	5.6	3.9	2.6	3.0	3.5	3.8	3.6	4.9
11	82	11	4.7	7.9	5.4	4.2	2.6	3.2	3.7	3.8	3.6	4.4
12	70	10	4.9	7.3	5.2	4.3	2.5	3.7	3.6	3.8	8.4	4.0
13	63	9.0	5.1	7.0	5.3	4.5	2.4	3.7	3.2	3.9	14	3.7
14	54	8.2	5.4	6.6	5.4	8.9	2.4	4.1	3.2	6.3	6.8	4.6
15	49	7.7	5.5	6.4	5.6	6.8	2.5	3.9	3.6	9.7	12	4.5
16	46	7.2	5.3	6.1	5.6	4.7	2.6	3.4	4.3	5.8	6.1	4.2
17	41	6.9	5.2	5.8	5.4	4.4	3.2	3.5	5.6	4.2	5.1	4.0
18	38	6.5	5.3	5.8	5.2	4.3	3.3	2.9	9.2	6.9	5.0	7.1
19	35	6.1	5.1	5.7	5.0	4.3	3.4	2.7	5.7	8.8	5.4	4.7
20	31	6.2	5.0	5.7	5.0	5.5	3.1	2.9	5.1	5.0	7.7	8.7
21	27	6.1	5.1	5.7	5.1	5.2	2.9	4.1	4.9	4.3	8.2	11
22	25	5.6	5.0	5.6	5.4	6.0	2.8	6.4	4.9	3.9	6.6	7.5
23	22	5.6	5.0	6.9	4.8	4.2	2.8	3.9	11	3.8	6.6	9.9
24	19	5.7	5.1	15	4.5	3.7	2.8	3.4	13	3.7	7.1	14
25	18	5.4	5.1	14	4.4	3.6	2.8	3.2	6.4	3.5	5.2	12
26	12	5.2	5.2	15	4.4	3.8	2.9	3.3	5.1	3.5	4.6	13
27	11	5.0	5.2	14	4.5	3.9	2.8	3.3	4.6	3.7	4.4	11
28	14	4.8	5.3	12	4.6	3.9	3.0	3.3	4.6	3.5	4.5	12
29	13	4.6	5.6	11	---	3.9	3.1	3.3	4.3	3.4	4.3	22
30	12	4.4	5.7	9.8	---	3.8	3.7	3.8	4.3	3.5	4.0	31
31	11	---	5.4	9.1	---	3.4	---	5.7	---	3.7	3.7	---
TOTAL	2828	265.2	153.1	250.6	159.9	142.9	87.6	111.7	149.6	153.9	169.8	246.5
MEAN	91.2	8.84	4.94	8.08	5.71	4.61	2.92	3.60	4.99	4.96	5.48	8.22
MAX	411	18	5.7	15	8.6	8.9	4.8	6.4	13	9.7	14	31
MIN	11	4.4	4.3	5.3	4.4	3.4	2.4	2.7	3.2	3.4	3.5	3.6
CFSM	1.26	.12	.07	.11	.08	.06	.04	.05	.07	.07	.08	.11
IN.	1.45	.14	.08	.13	.08	.07	.04	.06	.08	.08	.09	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1999, BY WATER YEAR (WY)

MEAN	67.4	23.4	33.4	45.8	52.3	79.9	38.1	15.7	25.5	68.7	154	174
MAX	252	150	562	354	462	612	335	245	245	424	557	634
(WY)	1948	1989	1998	1998	1998	1960	1953	1979	1974	1960	1965	1988
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

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1947 - 1999	
ANNUAL TOTAL	55580.9		4718.8			
ANNUAL MEAN	152		12.9		64.9	
HIGHEST ANNUAL MEAN					228	1959
LOWEST ANNUAL MEAN					8.86	1981
HIGHEST DAILY MEAN	1420	Mar 21	411	Oct 1	3710	Jul 30 1960
LOWEST DAILY MEAN	2.0	Jun 24	2.4	Apr 13	.80	May 26 1962
ANNUAL SEVEN-DAY MINIMUM	2.1	Jun 21	2.5	Apr 9	.91	May 19 1981
INSTANTANEOUS PEAK FLOW			530	Oct 1	3890	Jul 30 1960
INSTANTANEOUS PEAK STAGE			15.89	Oct 1	26.09	Jul 30 1960
ANNUAL RUNOFF (CFSM)	2.10		.18		.90	
ANNUAL RUNOFF (INCHES)	28.52		2.42		12.17	
10 PERCENT EXCEEDS	457		14		176	
50 PERCENT EXCEEDS	25		5.0		11	
90 PERCENT EXCEEDS	3.8		3.2		2.8	

02310000 ANCLOTE RIVER NEAR ELFERS, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
10...	0855	7.90	12	346	5.70	18.5	--	5.1	--	--	--	--
JAN												
05...	1021	7.56	5.7	622	6.77	13.0	20	3.7	72	6.5	40	5.1
APR												
07...	0826	7.15	2.6	611	7.02	23.8	20	2.3	73	6.4	39	4.6
JUN												
01...	0900	7.42	6.0	971	6.97	26.0	--	2.1	--	--	--	--
AUG												
04...	1135	7.14	3.6	674	7.82	27.2	20	1.7	70	6.9	49	6.4
SEP												
22...	1027	7.48	7.6	692	7.98	25.1	40	4.2	62	6.6	60	8.3

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
10...	--	--	--	--	--	.01	.49	.07	.73	.11	.09	--
JAN												
05...	37	60	.14	10	365	.03	1.2	.14	.57	.32	.32	310
APR												
07...	32	65	.16	9.2	362	.03	.46	.11	.52	.42	.38	300
JUN												
01...	--	--	--	--	--	.05	1.1	.23	.89	1.2	1.2	--
AUG												
04...	37	78	.25	10	401	.05	.86	.19	.81	.66	.66	280
SEP												
22...	41	98	.13	9.1	418	.04	1.5	.20	.77	.78	.77	250

02310147 HOLLIN CREEK NEAR TARPON SPRINGS, FL

LOCATION.--Lat 28°09'44", long 82°42'38", in SW 1/4 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.--4.43 mi^2, approximately, excludes approximately 3.9 mi^2 which is noncontributing.
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. Stage-discharge relation affected by tide on some days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	.79	.93	.83	1.8	.84	.40	.34	.19	.64	.69	.94
2	34	.79	.88	1.0	1.8	.80	.40	.32	.19	.89	.67	.89
3	31	.79	.84	4.8	1.8	.79	.40	.28	.19	.72	.80	.85
4	26	1.4	.83	1.8	1.7	.78	.40	.28	.19	.86	.75	.79
5	21	2.4	.80	1.4	1.7	.77	.40	.27	.23	.72	.70	.77
6	17	1.5	.79	1.3	1.5	.76	.40	.26	.24	.60	1.0	4.0
7	14	1.3	.79	1.2	1.5	.73	.39	.24	.21	.54	.92	4.5
8	12	1.1	.79	1.1	1.5	.70	.39	.24	.19	.54	.77	3.5
9	9.5	.99	.79	1.9	1.4	.70	.39	.25	.19	.53	.70	3.0
10	7.9	.97	.79	3.0	1.3	.70	.38	.26	.29	.51	.70	2.8
11	6.5	.94	.79	2.1	1.3	.70	.37	.26	.26	.47	.74	2.4
12	5.0	.89	.77	1.7	1.3	.70	.35	.23	.22	.47	4.0	2.1
13	4.1	.89	.98	1.5	1.2	.69	.35	.23	.23	.47	5.6	1.8
14	3.4	.89	1.1	1.4	1.1	4.2	.34	.23	.78	.51	3.0	1.7
15	2.8	.89	.93	1.5	1.0	2.0	.36	.23	.80	2.7	31	1.7
16	2.3	.89	.89	1.4	1.0	1.1	.34	.23	1.3	2.3	17	1.4
17	2.0	.85	.89	1.3	.99	.85	.54	.23	6.0	.98	10	1.3
18	1.8	.84	.86	1.2	.99	.75	.47	.23	14	3.7	5.7	3.8
19	1.5	.79	.83	1.2	.89	.67	.40	.23	3.9	5.9	3.9	3.9
20	1.4	.80	.79	1.2	.89	.63	.38	.22	2.6	1.9	2.9	4.8
21	1.3	.82	.80	1.2	.89	.61	.36	.22	2.6	1.2	3.7	10
22	1.2	1.3	.82	1.1	.86	.57	.34	.23	1.6	1.1	4.9	6.1
23	1.1	1.9	.83	2.0	.83	.54	.34	.23	1.1	.94	4.5	4.6
24	.96	1.3	.81	8.0	.80	.53	.34	.21	1.0	.82	3.7	3.5
25	.89	1.3	.79	5.1	.79	.50	.30	.21	.86	.71	2.9	2.9
26	.86	1.2	.91	4.2	.79	.48	.27	.19	.79	.70	2.3	2.8
27	.83	1.2	.89	3.4	.78	.49	.26	.19	.72	.72	1.8	2.6
28	.79	1.1	.89	2.8	.82	.47	.25	.19	.62	.70	1.5	2.3
29	.78	.99	.92	2.5	---	.45	.32	.19	.62	.71	1.3	2.0
30	.77	.99	.92	2.1	---	.43	.37	.20	.58	.70	1.1	1.8
31	.77	---	.87	1.9	---	.41	---	.21	---	.73	1.1	---
TOTAL	251.45	32.80	26.51	67.13	33.22	25.34	11.00	7.33	42.69	34.98	120.34	85.54
MEAN	8.11	1.09	.86	2.17	1.19	.82	.37	.24	1.42	1.13	3.88	2.85
MAX	38	2.4	1.1	8.0	1.8	4.2	.54	.34	14	5.9	31	10
MIN	.77	.79	.77	.83	.78	.41	.25	.19	.19	.47	.67	.77
CFSM	2.09	.28	.22	.56	.31	.21	.09	.06	.37	.29	1.00	.73
IN.	2.41	.31	.25	.64	.32	.24	.11	.07	.41	.34	1.15	.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1999, BY WATER YEAR (WY)

MEAN	5.99	2.69	4.67	4.20	5.97	6.52	3.02	.83	1.33	3.70	6.24	8.92
MAX	40.3	15.4	52.9	23.6	51.6	43.9	10.8	3.00	5.07	13.7	37.0	48.7
(WY)	1996	1998	1998	1998	1998	1998	1993	1991	1982	1991	1991	1988
MIN	.14	.17	.29	.14	.36	.39	.24	.079	.20	.24	.63	1.05
(WY)	1982	1982	1983	1985	1985	1997	1985	1985	1988	1988	1997	1990

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1982 - 1999	
ANNUAL TOTAL	5249.70		738.33			
ANNUAL MEAN	14.4		2.02		4.50	
HIGHEST ANNUAL MEAN					20.0	1998
LOWEST ANNUAL MEAN					1.04	1990
HIGHEST DAILY MEAN	153	Feb 17	38	Oct 1	313	Sep 9 1988
LOWEST DAILY MEAN	e.06	Jul 4	.19	Several Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.12	Jul 1	.19	May 26	.00	May 19 1982
INSTANTANEOUS PEAK FLOW			68	Aug 15	370	Sep 9 1988
INSTANTANEOUS PEAK STAGE			11.30	Aug 15	15.90	Sep 9 1988
ANNUAL RUNOFF (CFSM)	3.71		.52		1.16	
ANNUAL RUNOFF (INCHES)	50.33		7.08		15.76	
10 PERCENT EXCEEDS	40		3.9		10	
50 PERCENT EXCEEDS	3.0		.86		1.1	
90 PERCENT EXCEEDS	.29		.26		.25	

02310240 JUMPING GULLY AT LOYCE, FL

LOCATION.--Lat 28°23'06", long 82°29'22", in NE$^1/_4$ sec.22, T.24 S., R.18 E., Pasco County, Hydrologic Unit 03100207, at center of span on upstream side of bridge on U. S. Highway 41, 100 ft downstream from concrete structure at outlet of Pasco Lake, 0.3 mi north of Loyce, 2.7 mi upstream from mouth, and 4.4 mi southwest of Masaryktown.

DRAINAGE AREA.--312 mi^2.

PERIOD OF RECORD.--May 1964 to September 1988; October 1986 to September 1991 (gage heights only); January 1998 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 60.00 ft above National Geodetic Vertical Datum of 1929. Prior to Feb. 11, 1970, nonrecording gage at same site at datum 60.00 ft lower.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
2	9.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	8.2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	7.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	6.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
6	5.0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	3.9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	3.3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	2.9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	2.5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	1.8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	1.4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	1.1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.77	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.51	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---
TOTAL	65.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
MEAN	2.11	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MAX	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
CFSM	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
IN.	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	13.0	2.73	2.61	3.53	5.67	6.44	2.45	.51	1.52	5.72	14.6	27.9
MAX	66.7	23.6	40.1	49.8	54.0	33.9	13.4	8.82	16.5	45.5	112	279
(WY)	1970	1970	1970	1970	1970	1998	1970	1979	1976	1974	1965	1964
MIN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	1973	1968	1968	1968	1968	1968	1968	1967	1965	1967	1973	1972

SUMMARY STATISTICS	FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	65.42			
ANNUAL MEAN	.18		6.32	
HIGHEST ANNUAL MEAN			25.6	1970
LOWEST ANNUAL MEAN			.001	1981
HIGHEST DAILY MEAN	11	Oct 1	890	Sep 19 1964
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 27	.00	Jun 1 1964
INSTANTANEOUS PEAK FLOW	12	Oct 1	56	Mar 19 1998
INSTANTANEOUS PEAK STAGE	3.85	Oct 1	4.30	Mar 19 1998
ANNUAL RUNOFF (CFSM)	.004		.15	
ANNUAL RUNOFF (INCHES)	.06		2.00	
10 PERCENT EXCEEDS	.00		21	
50 PERCENT EXCEEDS	.00		.08	
90 PERCENT EXCEEDS	.00		.00	

02310280 PITHLACHASCOTEE RIVER NEAR FIVAY JUNCTION, FL

LOCATION.--Lat 28°19'44", long 82°32'13", in NE$^1/_4$ 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^2.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	1.2	.76	.51	2.2	.36	.11	.00	.00	.56	.31	.82
2	25	1.1	.73	.56	2.0	.31	.10	.00	.00	.34	.21	.79
3	23	1.1	.71	3.4	1.9	.28	.10	.00	.00	.24	.19	.59
4	21	1.5	.71	3.4	1.8	.28	.09	.00	.00	.30	.17	.42
5	18	3.1	.68	2.5	1.7	.23	.08	.00	.00	.27	.22	.33
6	16	2.9	.61	2.0	1.5	.24	.07	.00	.00	.16	.58	.61
7	15	2.4	.57	1.8	1.3	.24	.05	.00	.00	.09	.42	1.1
8	13	2.1	.54	1.5	1.1	.23	.03	.00	.00	.07	.20	.84
9	12	1.8	.50	1.7	1.1	.21	.01	.00	.00	.16	.28	.65
10	11	1.6	.48	3.4	1.0	.21	.00	.00	.00	.42	.44	.48
11	9.6	1.4	.46	3.0	.96	.19	.00	.00	.00	.33	.41	.36
12	8.6	1.3	.46	2.4	.94	.18	.00	.00	.00	.24	1.4	.36
13	7.9	1.3	.56	2.1	.81	.17	.00	.00	.00	.35	.97	.26
14	7.2	1.3	.71	1.8	.72	.80	.00	.00	.00	.45	1.1	.39
15	6.5	1.2	.66	1.9	.68	1.7	.00	.00	.00	.26	1.9	.91
16	5.7	1.2	.61	1.9	.67	1.0	.00	.00	.00	.15	1.0	.53
17	5.2	1.1	.57	1.7	.60	.69	.00	.00	.22	.08	2.0	.26
18	4.7	1.1	.55	1.6	.59	.54	.01	.00	.39	.83	3.0	.20
19	4.4	1.0	.55	1.6	.54	.43	.00	.00	.67	2.9	9.9	.23
20	3.9	1.0	.59	1.6	.52	.37	.00	.00	.65	1.6	4.5	.56
21	3.6	1.0	.60	1.5	.48	.32	.00	.02	.40	1.2	5.3	1.0
22	3.3	1.9	.58	1.4	.48	.30	.00	.13	.29	.56	12	.68
23	2.9	1.7	.55	1.6	.45	.23	.00	.07	.34	.32	8.5	.40
24	2.6	1.6	.54	6.0	.42	.20	.00	.04	.72	.91	10	.28
25	2.4	1.5	.53	6.0	.38	.18	.00	.03	.56	2.9	6.0	.55
26	2.2	1.4	.60	4.8	.35	.17	.00	.00	.39	1.7	3.8	1.8
27	1.9	1.2	.67	4.0	.33	.16	.00	.00	.52	1.1	2.6	1.7
28	1.7	1.0	.67	3.5	.33	.14	.00	.00	.35	.57	2.0	9.7
29	1.6	.88	.68	3.1	---	.11	.00	.00	.29	.30	1.7	5.3
30	1.4	.80	.63	2.8	---	.11	.00	.00	.26	.28	1.3	3.0
31	1.3	---	.54	2.5	---	.11	---	.00	---	.49	.99	---
TOTAL	271.6	43.68	18.60	77.57	25.85	10.69	0.65	0.29	6.05	20.13	83.39	35.10
MEAN	8.76	1.46	.60	2.50	.92	.34	.022	.009	.20	.65	2.69	1.17
MAX	29	3.1	.76	6.0	2.2	1.7	.11	.13	.72	2.9	12	9.7
MIN	1.3	.80	.46	.51	.33	.11	.00	.00	.00	.07	.17	.20
IN.	.07	.01	.00	.02	.01	.00	.00	.00	.00	.00	.02	.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 1999, BY WATER YEAR (WY)

MEAN	5.86	3.61	6.28	8.88	7.14	9.42	4.89	1.67	1.80	6.82	9.48	14.2
MAX	22.5	16.5	45.0	59.1	52.4	53.1	35.4	18.6	10.2	27.5	27.1	77.2
(WY)	1996	1989	1998	1998	1998	1998	1987	1987	1984	1987	1984	1988
MIN	.96	.17	.39	.31	.32	.14	.008	.000	.001	.41	1.49	1.17
(WY)	1994	1997	1997	1997	1997	1997	1994	1985	1998	1992	1993	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1984 - 1999	
ANNUAL TOTAL	6327.32		593.60			
ANNUAL MEAN	17.3		1.63		6.67	
HIGHEST ANNUAL MEAN					21.2	1998
LOWEST ANNUAL MEAN					1.20	1997
HIGHEST DAILY MEAN	103	Jan 8	29	Oct 1	242	Sep 9 1988
LOWEST DAILY MEAN	.00	Many Days	.00	Many Days	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.00	May 21	.00	Apr 10	.00	Apr 27 1985
INSTANTANEOUS PEAK FLOW			32	Oct 1	294	Sep 9 1988
INSTANTANEOUS PEAK STAGE			52.29	Oct 1	54.37	Sep 9 1988
ANNUAL RUNOFF (INCHES)	1.57		.15		.60	
10 PERCENT EXCEEDS	61		3.4		18	
50 PERCENT EXCEEDS	3.3		.56		1.9	
90 PERCENT EXCEEDS	.00		.00		.02	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
10...	1250	51.21	1.6	109	5.10	19.0	--	5.2	--	--	--	--
JAN												
05...	1441	51.31	2.3	133	7.01	9.0	--	6.9	--	--	--	--
JUL												
14...	0835	51.02	.52	297	5.74	23.6	--	3.9	--	--	--	--
28...	1016	51.05	.68	258	5.96	25.9	--	4.4	--	--	--	--
AUG												
04...	1540	50.86	.16	226	6.67	25.5	120	3.0	31	2.7	8.6	1.0
SEP												
22...	1335	51.07	.68	162	6.44	23.6	160	5.2	23	2.0	7.3	1.1

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
10...	--	--	--	--	--	<.01	.02	<.01	1.1	<.02	<.01	--
JAN												
05...	--	--	--	--	--	<.01	<.02	.02	.76	<.02	<.01	--
JUL												
14...	--	--	--	--	--	<.01	.08	.07	.99	<.02	<.01	--
28...	--	--	--	--	--	<.01	.08	.04	1.1	<.02	<.01	--
AUG												
04...	34	15	.10	6.7	188	<.01	.11	.07	1.4	.03	.02	51
SEP												
22...	6.4	14	<.10	6.7	146	<.01	<.02	.03	.88	<.02	.02	37

02310300 PITHLACHASCOTEE RIVER NEAR NEW PORT RICHEY, FL

LOCATION.--Lat 28°15'23", long 82°38'33", in NW$^1/_4$ 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^2.

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.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	3.7	3.2	3.0	7.2	2.0	.34	.09	.03	1.3	.41	2.6
2	122	3.6	2.8	3.1	6.6	1.6	.32	.07	.02	3.2	.30	1.8
3	109	3.4	2.6	9.4	6.1	1.3	.27	.06	.02	1.7	.27	1.2
4	94	4.6	2.5	8.2	5.5	1.1	.24	.04	.03	1.0	.18	1.1
5	80	8.6	2.3	7.2	5.0	1.0	.22	.03	.04	.76	.12	.86
6	70	8.3	2.2	6.4	4.4	.89	.22	.03	.06	.53	.20	7.4
7	68	7.9	2.0	6.0	4.2	.84	.18	.03	.04	.36	.18	9.0
8	58	7.3	1.8	6.0	4.1	.76	.18	.03	.03	.28	.09	5.2
9	57	6.6	1.7	7.7	4.0	.65	.19	.04	.03	.25	.40	3.6
10	54	6.0	1.7	13	3.8	.63	.19	.04	.08	.23	.59	2.4
11	38	5.4	1.6	11	3.6	.60	.19	.04	.06	.18	.46	1.6
12	30	5.0	1.7	8.9	3.4	.54	.17	.04	.04	.16	.86	1.0
13	26	4.8	2.0	7.6	3.1	.46	.14	.03	.03	.11	1.2	.62
14	25	4.6	2.6	6.8	2.7	2.0	.12	.04	.16	.12	1.2	.57
15	24	4.3	2.6	6.2	2.5	3.8	.10	.03	.15	.31	1.3	1.2
16	20	4.1	2.5	5.8	2.4	3.5	.11	.03	1.0	.19	1.1	1.1
17	17	3.7	2.4	5.4	2.3	3.1	.24	.03	1.6	.12	1.6	.78
18	16	3.4	2.4	5.2	2.2	2.7	.26	.03	.95	1.1	2.1	.81
19	14	3.3	2.3	5.0	2.2	2.3	.18	.02	1.0	4.3	3.7	1.2
20	12	3.5	2.2	4.7	2.0	2.0	.14	.02	3.3	1.6	6.6	3.7
21	11	3.8	2.2	5.5	1.8	1.7	.11	.10	5.1	.92	13	5.3
22	9.8	4.0	2.2	8.7	1.8	1.5	.09	.19	3.3	2.6	11	3.7
23	8.6	4.2	2.2	8.9	1.7	1.3	.08	.07	1.6	3.4	14	2.5
24	7.7	4.7	2.1	26	1.6	1.1	.07	.06	2.3	4.1	24	1.9
25	6.8	4.8	2.0	19	1.5	.87	.05	.06	1.4	3.7	25	1.6
26	6.1	5.0	2.1	16	1.4	.72	.05	.04	1.0	3.4	21	6.8
27	5.4	4.8	2.4	e17	1.4	.61	.05	.04	1.4	3.0	15	6.2
28	4.8	4.4	2.5	e15	1.5	.51	.06	.04	.98	2.1	12	3.8
29	4.3	3.9	3.0	e10	---	.43	.06	.03	.84	1.3	8.1	3.1
30	3.9	3.5	3.6	e8.9	---	.39	.09	.03	.70	.88	5.5	2.5
31	3.8	---	3.2	e7.8	---	.35	---	.03	---	.67	3.8	---
TOTAL	1123.2	145.2	72.6	279.4	90.0	41.25	4.71	1.46	27.29	43.87	175.26	85.14
MEAN	36.2	4.84	2.34	9.01	3.21	1.33	.16	.047	.91	1.42	5.65	2.84
MAX	122	8.6	3.6	26	7.2	3.8	.34	.19	5.1	4.3	25	9.0
MIN	3.8	3.3	1.6	3.0	1.4	.35	.05	.02	.02	.11	.09	.57
CFSM	.20	.03	.01	.05	.02	.01	.00	.00	.01	.01	.03	.02
IN.	.23	.03	.02	.06	.02	.01	.00	.00	.01	.01	.04	.02

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 1999, BY WATER YEAR (WY)

MEAN	27.3	11.2	20.2	26.0	31.0	32.3	14.0	7.07	12.8	28.4	54.5	70.0
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	1.65	.64	.86	1.34	.79	.27	.13	.000	.011	.000	3.06	2.84
(WY)	1981	1997	1991	1997	1997	1997	1994	1985	1981	1981	1989	1999

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1964 - 1999	
ANNUAL TOTAL	21550.51		2089.38			
ANNUAL MEAN	59.0		5.72		27.9	
HIGHEST ANNUAL MEAN					88.5	1998
LOWEST ANNUAL MEAN					3.01	1997
HIGHEST DAILY MEAN	609	Mar 20	122	Oct 2	1420	Sep 9 1988
LOWEST DAILY MEAN	.04	Jun 22	.02	May 19	.00	Many Days
ANNUAL SEVEN-DAY MINIMUM	.05	Jun 18	.03	May 29	.00	May 27 1981
INSTANTANEOUS PEAK FLOW			127	Oct 1	1480	Sep 9 1988
INSTANTANEOUS PEAK STAGE			21.10	Oct 1	24.67	Sep 9 1988
ANNUAL RUNOFF (CFSM)	.33		.032		.15	
ANNUAL RUNOFF (INCHES)	4.45		.43		2.10	
10 PERCENT EXCEEDS	175		10		73	
50 PERCENT EXCEEDS	8.3		2.0		7.3	
90 PERCENT EXCEEDS	.24		.06		.50	

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 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
NOV												
10...	0930	18.48	6.2	158	5.60	17.0	--	6.2	--	--	--	--
JAN												
05...	1123	18.55	7.2	195	6.56	8.5	120	7.9	27	2.6	6.8	1.4
APR												
07...	0934	17.59	.22	362	6.89	21.5	20	2.3	62	4.7	6.1	1.3
JUN												
01...	0940	17.49	.03	--	6.36	22.5	--	2.1	--	--	--	--
AUG												
04...	1315	17.53	.20	363	7.19	26.2	70	3.3	62	4.7	6.7	1.2
SEP												
22...	1118	18.19	3.8	237	7.43	23.6	160	4.6	37	2.9	6.7	1.4

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)
NOV												
10...	--	--	--	--	--	<.01	.02	.01	1.0	.03	.01	--
JAN												
05...	7.4	14	<.10	6.8	147	<.01	<.02	.02	.76	<.02	.01	84
APR												
07...	11	11	.16	9.3	234	.02	.10	.29	.66	.12	.10	380
JUN												
01...	--	--	--	--	--	.01	.23	.26	.69	.18	.17	--
AUG												
04...	29	12	.21	9.5	255	<.01	.19	.07	.76	.09	.09	340
SEP												
22...	13	14	<.10	7.5	192	<.01	.04	.04	.72	.04	.03	160

02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°31'00", long 82°34'25", in NE$^1/_4$ 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.

GAGE HEIGHT RECORDS

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.--Discharge measurements made about 1.0 mi downstream from head of springs.

AVERAGE DISCHARGE.--513 measurements, 172 ft^3/s, 111 mg/d.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge measured, 275 ft^3/s, Oct. 19, 1964; maximum gage height observed, 3.86 ft, Sept. 9, 1960; minimum discharge measured, 101 ft^3/s, July 24, 1956; minimum gage height observed, 0.58 ft, Aug. 5, 1932.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 2.98 ft, Oct. 10; minimum observed, 1.50 ft, June 14, 15, 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.65	---	2.18	1.90	2.00	2.00	1.86	---	1.65	1.90	1.75	1.75
2	2.60	---	2.20	1.90	1.89	2.30	1.86	---	1.65	1.89	1.75	1.75
3	2.60	---	2.20	2.00	1.88	2.20	1.90	---	1.67	1.90	1.75	1.75
4	2.59	---	2.23	1.90	1.89	2.20	---	---	1.67	1.78	1.73	1.78
5	2.65	---	2.25	1.90	1.90	2.20	---	---	1.67	1.75	1.73	1.78
6	2.68	---	2.20	1.89	1.90	2.19	---	---	1.71	1.75	1.76	1.75
7	2.70	---	2.20	1.89	1.92	2.18	1.74	---	1.71	1.78	1.76	1.76
8	2.78	---	2.23	1.90	1.90	2.15	---	---	1.71	1.78	1.78	1.76
9	2.89	---	2.24	1.93	1.90	2.13	---	---	1.71	1.80	1.78	1.76
10	2.98	2.21	2.24	1.93	1.89	2.13	---	---	1.70	1.78	1.78	1.76
11	2.90	---	2.25	1.94	1.89	2.10	---	---	1.70	1.85	1.78	1.77
12	2.89	---	2.26	1.95	1.87	2.10	---	---	1.71	1.85	1.78	1.72
13	2.80	---	2.20	1.95	1.86	2.08	---	---	1.85	1.83	1.78	1.75
14	2.73	---	2.20	1.96	1.85	2.00	---	---	1.50	1.83	1.78	1.75
15	2.70	---	2.19	1.96	1.85	2.00	---	---	1.50	1.84	1.82	1.73
16	2.70	---	2.18	1.99	1.86	2.00	---	1.68	1.50	1.85	1.78	1.73
17	2.69	---	2.20	2.00	1.87	2.02	---	1.55	1.65	1.85	1.78	1.73
18	2.70	---	2.20	2.00	1.87	2.03	---	1.55	1.75	1.80	1.80	1.72
19	2.73	---	2.21	2.01	1.88	2.05	---	1.65	1.75	1.85	1.80	1.82
20	2.74	---	2.10	2.02	1.89	2.08	---	1.65	1.80	1.85	1.80	1.82
21	2.74	---	2.50	2.00	1.90	2.00	---	1.70	1.70	1.83	1.81	1.81
22	2.72	2.30	2.50	2.00	1.92	2.00	---	1.70	1.73	1.83	1.74	1.81
23	2.70	2.25	2.30	2.00	1.92	2.00	---	1.65	1.76	1.81	1.75	1.81
24	2.70	2.23	2.30	2.00	1.95	2.00	---	1.62	1.76	1.80	1.75	1.82
25	2.70	2.20	2.20	2.00	2.00	1.96	---	1.62	1.79	1.77	1.74	1.82
26	2.70	2.20	2.10	1.90	2.00	1.95	---	1.62	1.80	1.79	1.74	1.82
27	2.69	2.19	2.10	1.90	2.01	1.90	---	1.63	1.89	1.80	1.74	1.82
28	2.65	2.18	2.10	1.90	2.00	1.90	---	1.65	1.89	1.80	1.74	1.82
29	2.60	2.18	2.00	2.00	---	1.90	---	1.65	1.90	1.79	1.79	1.82
30	2.58	2.19	1.90	2.00	---	1.87	---	1.66	1.90	1.78	1.75	1.82
31	2.53	---	1.90	2.00	---	1.89	---	1.65	---	1.78	1.75	---
MEAN	2.71	---	2.20	1.96	1.91	2.05	---	---	1.72	1.82	1.77	1.78
MAX	2.98	---	2.50	2.02	2.01	2.30	---	---	1.90	1.90	1.82	1.82
MIN	2.53	---	1.90	1.89	1.85	1.87	---	---	1.50	1.75	1.73	1.72

02310500 WEEKI WACHEE SPRINGS NEAR BROOKSVILLE, FL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1961-65, 1968 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	GAGE HEIGHT (FEET) (00065)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)
NOV												
10...	1035	2.21	304	6.30	22.0	2.6	<.01	.58	<.01	<.20	<.02	<.01
JAN												
05...	1330	1.92	308	7.16	21.5	2.1	<.01	.56	<.01	<.20	<.02	<.01
APR												
07...	1103	1.74	304	7.45	23.8	2.4	<.01	.57	.01	<.20	.02	.02
JUN												
01...	1100	1.63	310	6.93	23.8	2.1	<.01	.55	.02	<.20	<.02	<.01
AUG												
04...	1440	1.76	312	7.70	23.9	1.5	<.01	.55	.02	<.20	<.02	.01
SEP												
22...	1236	1.82	313	7.61	23.7	2.3	<.01	.56	.02	<.20	<.02	.01

02310525 WEEKI WACHEE RIVER NEAR BROOKSVILLE, FL

LOCATION.--Lat 28°31'07", long 82°34'57", 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.--Water-stage recorder. Datum of gage is 0.75 ft above National Geodetic Vertical Datum of 1929.

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 and discharge at measuring site. See WRI 88-4116 for computation equation and relationships.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	213	208	199	189	183	172	161	150	141	146	146	148
2	214	208	199	188	182	172	161	149	140	146	146	148
3	214	208	198	188	182	171	160	149	140	146	146	148
4	214	208	198	188	181	171	160	149	140	146	145	148
5	214	208	198	187	181	171	159	148	139	146	145	147
6	214	207	197	187	181	170	159	148	139	147	145	147
7	214	207	197	187	180	170	159	148	139	146	145	148
8	214	206	197	187	180	169	158	147	139	146	145	149
9	214	206	196	187	179	169	158	147	138	147	145	149
10	213	206	196	186	179	169	158	146	138	147	145	150
11	213	205	196	186	179	168	157	146	139	147	144	150
12	213	205	195	185	178	168	157	146	138	147	145	149
13	213	205	195	185	178	167	156	145	138	147	145	150
14	213	205	195	185	178	167	156	145	138	147	145	150
15	213	204	194	184	177	168	156	145	138	147	145	150
16	213	204	194	184	177	167	155	144	139	147	144	150
17	213	204	194	183	177	167	155	144	141	147	144	150
18	212	203	193	183	176	166	155	144	142	147	145	150
19	212	203	193	183	176	166	155	143	143	147	145	150
20	212	203	192	183	175	166	154	143	143	147	145	150
21	212	202	192	182	175	165	154	143	144	147	145	151
22	211	202	192	182	175	165	154	143	144	147	146	150
23	211	202	191	182	174	164	153	143	145	147	146	150
24	210	201	191	182	174	164	153	143	145	147	147	150
25	210	201	191	183	174	164	152	142	145	147	147	150
26	210	201	190	184	173	164	152	141	146	147	148	150
27	210	201	190	184	173	163	151	141	146	147	148	150
28	209	200	190	184	173	163	151	141	146	147	148	150
29	209	200	190	184	---	162	150	141	146	147	148	150
30	209	200	189	183	---	162	150	141	146	147	148	149
31	209	---	189	183	---	161	---	141	---	146	148	---
TOTAL	6575	6123	6011	5728	4970	5171	4669	4486	4245	4549	4519	4481
MEAN	212	204	194	185	178	167	156	145	142	147	146	149
MAX	214	208	199	189	183	172	161	150	146	147	148	151
MIN	209	200	189	182	173	161	150	141	138	146	144	147

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1999, BY WATER YEAR (WY)

MEAN	161	163	157	159	161	158	153	145	140	143	149	158
MAX	212	204	194	187	211	226	221	209	194	185	188	194
(WY)	1999	1999	1999	1998	1998	1998	1998	1998	1998	1998	1998	1998
MIN	127	137	127	122	133	129	120	111	104	108	120	123
(WY)	1998	1994	1994	1994	1994	1997	1994	1994	1994	1994	1997	1997

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1994 - 1999	
ANNUAL TOTAL	73752		61527			
ANNUAL MEAN	202		169		154	
HIGHEST ANNUAL MEAN					186	1998
LOWEST ANNUAL MEAN					124	1994
HIGHEST DAILY MEAN	229	Mar 28	214	Oct 2	229	Mar 28 1998
LOWEST DAILY MEAN	163	Jan 1	138	Jun 9	101	Jun 29 1994
ANNUAL SEVEN-DAY MINIMUM	165	Jan 1	138	Jun 9	102	Jun 26 1994
10 PERCENT EXCEEDS	224		207		196	
50 PERCENT EXCEEDS	201		161		149	
90 PERCENT EXCEEDS	187		144		121	

02310678 HOMOSASSA SPRINGS AT HOMOSASSA SPRINGS, FL

LOCATION.--Lat 28°47'58", long 82°35'20", in NE$^1/_4$ sec.28, T.19 S., R.17 E., Citrus County, Hydrologic Unit 03100207, at bridge on nature trail in Homosassa Springs, 0.8 mi west of town of Homosassa Springs, and 3.1 mi northeast of Homosassa.

PERIOD OF RECORD.--1931-33, 1936, 1956, 1961, 1963-65 (miscellaneous discharge measurements); August 1965 to September 1978 (discharge measurements only); October 1995 to current year.

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

REMARKS.--Records fair. Discharge computed from relation between artesian pressure at Weeki Wachee Well near Weeki Wachee and discharge at measuring site. See WRI 88-4116 for computation equation and relationships.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72	95	105	104	100	83	85	98	90	e88	80	88
2	90	93	109	98	86	89	89	97	87	e90	80	86
3	95	87	105	85	90	80	94	92	86	e93	85	84
4	95	85	100	101	91	94	95	87	89	e91	89	78
5	96	104	101	118	99	101	94	78	92	e87	86	75
6	98	114	101	122	104	96	95	75	97	e88	78	68
7	95	109	99	112	98	99	96	77	99	e83	72	70
8	94	109	100	107	94	115	92	82	100	e82	75	75
9	94	102	106	100	96	98	86	84	90	e85	74	76
10	98	101	113	113	98	89	82	85	86	e86	72	78
11	102	96	118	124	101	96	86	85	84	e84	70	79
12	103	107	115	118	95	99	86	84	83	e84	73	84
13	109	109	97	102	102	97	93	79	82	80	81	90
14	104	102	101	97	121	75	90	73	80	81	81	100
15	102	99	117	93	114	74	74	77	82	82	78	98
16	110	99	113	102	99	101	71	87	81	85	79	82
17	113	97	107	97	87	97	87	90	76	89	86	84
18	107	101	109	93	80	93	97	87	84	e86	86	82
19	100	104	103	96	82	88	98	83	98	e88	85	71
20	102	101	100	98	91	89	97	82	95	89	81	67
21	103	103	98	97	95	86	95	88	92	91	83	63
22	109	113	98	95	108	91	90	89	94	91	81	77
23	128	109	102	87	105	96	90	90	95	90	79	85
24	125	108	100	85	98	95	94	83	93	84	81	82
25	115	106	103	111	97	94	91	81	e89	81	80	75
26	108	106	108	111	95	92	93	85	e89	81	81	75
27	107	112	112	106	92	98	81	85	e84	83	81	73
28	101	113	108	99	82	104	78	88	e86	83	82	77
29	97	111	94	98	---	98	81	91	e84	79	80	76
30	95	105	92	94	---	96	87	94	e84	78	77	75
31	94	---	104	98	---	95	---	93	---	79	86	---
TOTAL	3161	3100	3238	3161	2700	2898	2667	2649	2651	2641	2482	2373
MEAN	102	103	104	102	96.4	93.5	88.9	85.5	88.4	85.2	80.1	79.1
MAX	128	114	118	124	121	115	98	98	100	93	89	100
MIN	72	85	92	85	80	74	71	73	76	78	70	63

e Estimated

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in a table of annual maximum stage and discharge. Discharge measurements made at miscellaneous sites for both low flows and high flows are given in a second table.

Low-flow partial-record stations

About 400 discharge measurements made at low-flow partial-record and miscellaneous discharge measurement sites during 1980 and 1981 are published in Water Resources Investigation 84-4299, "Low-Flow Frequency Analyses for Streams in West-Central Florida."

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1999

Station Number	Station Name	Location	Drainage area (mi^2)	Period of record	Date	Annual Gage height (feet)	Maximum Dis-charge (ft^3/s)
		Peace River Basin					
02295630	Thompson Branch near Wauchula, FL	Lat 27°31'47", long 81°49'03",in SE$^1/_4$ sec.9, T.34 S., R.25 E., Hardee County, Hydrologic Unit 03100101, at culvert on County Road 35A, 1.3 mi south of inter-section State Highway 650 and U.S. Highway 17 in Wauchula, and 2.1 mi upstream from mouth. 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.	5.22	1983-99	†	†	†
02296260	Charlie Creek near Crewsville, FL	Lat 27°27'33", long 81°40'43", in SE$^1/_4$ sec.2, T.35 S., R.26 E., Hardee County, Hydrologic Unit 03100101, at bridge on State High-way 66, 7.1 mi west of Crewsville, and 14.5 mi upstream from mouth.	142	1981-99	8-06-99	18.11	705
02297088	Hawthorn Creek near Nocatee, FL	Lat 27°09'02", long 81°51'31", in NW$^1/_4$ 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. 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.	39	1983-99	6-29-99	13.44	1,279

See footnotes at end of the table.

Annual maximum discharge at crest-stage partial-record stations during water year 1999

Station Number	Station Name	Location	Drainage area (mi^2)	Period of record	Date	Annual Gage height (feet)	Maximum Dis-charge (ft^3/s)
		Peace River Basin--Continued					
02297251	Horse Creek near Limestone, FL	Lat 27°21'58", long 81°58'25", in NW$^1/_4$ 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. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). The annual maximum discharge data for the 1994 WY is in error. The corrected discharge is 3,450 cfs.	130	1981-99	8-06-99	52.85	247
02297320	Horse Creek near Nocatee, FL	Lat 27°09'31", long 81°57'58", in NE$^1/_4$ 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. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark).	231	1981-99	†	†	†
		Little Manatee River Basin					
02300200	South Fork Little Manatee River near Duette, FL	Lat 27°35'25", long 82°10'57", in SW$^1/_4$ 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. Datum of gage is 89.25 ft above National Geodetic Vertical Datum of 1929.	a9.4	1960-99	10-15-98	4.03	333
		Hillsborough River Basin					
02302260	Itchepackesassa Creek near Knights, FL	Lat 28°04'49", long 82°04'24", in NE$^1/_4$ 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.	a34	1982-99	†	†	†

† Not determined
a Approximately

Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1999

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Date	Measurements Discharge (ft^3/s)
		Hillsborough River Basin				
Hillsborough River	Hillsborough Bay	Lat 28°10'30", long 82°11'20", in SE 1/4 sec.34, T.26 S., R.21 E., Pasco County, Hydrologic Unit 03100205, on left bank, 0.2 mi downstream from Crystal Springs, 2.0 mi west of Village of Crystal Springs, and 4.0 mi south of Zephyrhills.	†	1935-98	10-06-98 12-03-98 01-28-99 04-01-99 05-20-99 07-12-99 08-11-99	117 70 71 55 47 61 55
Pemberton Creek	Baker Creek	Lat 28°01'34", long 82°14'12", in SE 1/4 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.	a24.1	1956-98	10-07-98 12-04-98 01-29-99 05-20-99 07-02-99 07-15-99 08-13-99	32 6.6 19 1.9 35 77 32
		Peace River Basin				
Saddle Creek Park Overflow	Saddle Creek	Lat 28°02'38", long 81°53'14", in SW 1/4 sec.14, T.28 S., R.24 E., Polk County, Hydrologic Unit 03100101, near center span on upstream side of bridge on State Highway 542, 100 ft upstream from mouth, and 4.5 mi west of Lakeland (discontinued).	†	1974 1996-98	10-01-98 12-01-98 02-01-99	23 1.2 0.43
Lake Parker Outlet	Saddle Creek	Lat 28°03'34", long 81°54'52", 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.	†	1955-59 1967, 1969 1997-98	10-01-98	115
Tenoroc Ditch	Saddle Creek	Lat 28°05'44", long 81°50'17", in NW 1/4 sec.31, T.27 S., R.25 E., Polk County, Hydrologic Unit 03100101, on ditch near left bank of dike, 2.4 mi southeast of Tenoroc Fish Management office, and 6.2 mi northeast of Lakeland (discontinued).	†	1997-98	10-01-98 12-02-98 02-01-99 04-13-99	7.7 0.35 1.9 0.02

See footnotes at end of the table.

Discharge measurements made at miscellaneous sites during water year 1999

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Date	Measurements Discharge (ft^3/s)
		Peace River Basin--Continued				
Peace River	Charlotte Harbor	Lat 27°49'15", long 81°47'59", in SE 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.	411 (revised)	1974, 1979 1980-98	10-13-98	1,160
					12-04-98	68
					01-28-99	78
					04-01-99	2.6
					05-20-99	5.3
					07-09-99	111
					08-12-99	73

a Approximately
† Undetermined

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	OXYGEN, DIS-SOLVED (MG/L) (00300)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
02300200	SOUTH FORK LITTLE MANATEE RIVER NEAR DUETTE FL (LAT 27 35 25N LONG 082 10 57W)											
NOV 1998												
19...	1230	-.92	--	302	6.20	21.0	--	4.0	--	--	--	--
JAN 1999												
07...	1052	-.21	--	261	6.48	9.0	--	9.2	--	--	--	--
MAY												
06...	1020	-1.05	--	391	7.75	21.8	--	3.5	--	--	--	--
JUN												
03...	1030	-.30	.25	--	7.57	23.2	--	4.6	--	--	--	--
AUG												
09...	1137	.13	--	307	7.00	26.8	240	5.0	27	9.8	8.9	15
SEP												
30...	1145	.70	--	233	6.46	25.6	240	4.6	20	7.4	8.2	8.4
02303200	PEMBERTON CREEK NEAR DOVER FL (LAT 28 01 34N LONG 082 14 12W)											
NOV 1998												
17...	0820	51.83	--	224	5.80	19.5	--	7.7	--	--	--	--
JAN 1999												
07...	0910	52.12	--	255	7.36	8.0	--	10.6	--	--	--	--
MAY												
06...	0815	51.22	--	376	8.13	22.9	--	5.0	--	--	--	--
JUL												
15...	1055	53.17	77	225	6.35	25.5	--	6.2	--	--	--	--
AUG												
09...	0905	52.11	--	189	7.52	27.0	--	6.9	--	--	--	--
SEP												
30...	0740	51.72	--	256	8.51	25.5	--	6.3	--	--	--	--
02307498	LAKE TARPON CANAL AT S-551, NEAR OLDSMAR FL (LAT 28 03 12N LONG 082 42 40W)											
AUG 1999												
04...	0940	2.76	--	682	7.65	31.2	40	5.0	42	8.0	76	4.2
SEP												
22...	0858	2.75	--	732	8.28	27.2	60	5.4	39	8.7	90	4.4

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHO TOTAL (MG/L AS P) (70507)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)
02300200	SOUTH FORK LITTLE MANATEE RIVER NEAR DUETTE FL (LAT 27 35 25N LONG 082 10 57W)											
NOV 1998												
19...	--	--	--	--	--	.01	2.4	.04	.51	.56	.53	--
JAN 1999												
07...	--	--	--	--	--	.01	1.9	.08	.92	.40	.40	--
MAY												
06...	--	--	--	--	--	.02	1.5	.05	.63	.34	.33	--
JUN												
03...	--	--	--	--	--	<.01	.21	.06	.36	.42	.44	--
AUG												
09...	53	19	.38	10	236	<.01	.64	.06	1.1	.86	.78	860
SEP												
30...	31	17	.35	7.9	193	<.01	.42	.04	1.1	.59	.51	630
02303200	PEMBERTON CREEK NEAR DOVER FL (LAT 28 01 34N LONG 082 14 12W)											
NOV 1998												
17...	--	--	--	--	--	<.01	.44	.04	.86	.53	.49	--
JAN 1999												
07...	--	--	--	--	--	.01	.62	.04	.65	.31	.31	--
MAY												
06...	--	--	--	--	--	.01	.02	.02	.26	.29	.27	--
JUL												
15...	--	--	--	--	--	.01	.29	.06	1.3	1.2	.44	--
AUG												
09...	--	--	--	--	--	<.01	.16	.02	1.1	.60	.47	--
SEP												
30...	--	--	--	--	--	<.01	.34	.02	.55	.43	.34	--
02307498	LAKE TARPON CANAL AT S-551, NEAR OLDSMAR FL (LAT 28 03 12N LONG 082 42 40W)											
AUG 1999												
04...	22	140	.23	3.0	423	<.01	<.02	.02	.94	.04	.02	200
SEP												
22...	21	160	.16	2.2	449	<.01	<.02	.03	.87	.05	.02	210

FIELD DETERMINATIONS

02297330 - PEACE RIVER AT FT. OGDEN FL

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH (00031)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT										
28...	1611	.30	1.95	279	7.3	24.4	1730	.80	--	6.4
28...	1612	.50	--	279	7.3	24.4	--	--	--	6.3
28...	1613	1.0	--	279	7.3	24.4	--	--	--	6.3
28...	1614	1.5	--	281	7.3	24.4	--	--	--	6.3
28...	1615	1.8	--	280	7.3	24.4	--	--	--	6.3
29...	1312	.30	2.05	285	7.3	23.6	--	--	--	6.0
29...	1313	.50	--	280	7.3	23.6	--	--	--	6.1
29...	1314	1.0	--	280	7.3	23.6	--	--	--	6.1
29...	1315	1.5	--	283	7.3	23.6	--	--	--	6.1
29...	1316	1.9	--	279	7.3	23.6	--	--	--	6.1
NOV										
17...	1527	.30	2.75	312	7.5	25.4	2000	1.0	--	7.0
17...	1528	.50	--	314	7.4	25.0	--	--	--	6.8
17...	1529	1.0	--	311	7.4	24.1	--	--	--	6.7
17...	1530	1.5	--	313	7.3	23.8	--	--	--	6.6
17...	1531	2.0	--	313	7.3	23.7	--	--	--	6.6
17...	1532	2.5	--	312	7.3	23.6	--	--	--	6.6
18...	1320	.30	1.85	325	7.3	24.0	--	--	--	6.5
18...	1321	.50	--	333	7.3	24.1	--	--	--	6.5
18...	1322	1.0	--	332	7.3	24.0	--	--	--	6.5
18...	1323	1.5	--	333	7.3	23.9	--	--	--	6.4
DEC										
28...	1626	.30	1.95	502	8.0	21.5	85.0	--	--	8.4
28...	1627	.50	--	492	8.0	21.5	--	--	--	8.4
28...	1628	1.0	--	496	8.0	21.5	--	--	--	8.4
28...	1629	1.5	--	484	8.0	21.5	--	--	--	8.4
29...	1304	.30	2.15	501	7.9	21.7	--	--	--	7.9
29...	1305	.50	--	498	7.9	21.6	--	--	--	7.9
29...	1306	1.0	--	504	7.9	21.6	--	--	--	7.9
29...	1307	1.5	--	493	7.9	21.6	--	--	--	7.9
29...	1308	2.0	--	503	7.9	21.6	--	--	--	7.9
JAN										
25...	1645	.30	1.65	437	7.5	21.3	1740	1.3	--	7.5
25...	1646	.50	--	437	7.5	21.3	--	--	--	7.4
25...	1647	1.0	--	437	7.5	21.3	--	--	--	7.4
25...	1648	1.5	--	437	7.5	21.3	--	--	--	7.4
26...	1352	.30	2.75	375	7.4	20.1	--	--	--	7.1
26...	1353	.50	--	371	7.4	20.1	--	--	--	7.0
26...	1354	1.0	--	371	7.4	20.0	--	--	--	7.0
26...	1355	1.5	--	365	7.4	20.0	--	--	--	7.0
26...	1356	2.0	--	372	7.4	20.0	--	--	--	7.0
26...	1357	2.5	--	365	7.4	20.0	--	--	--	7.0
FEB										
22...	1711	.30	1.65	418	7.8	19.3	1530	1.5	--	8.5
22...	1712	.50	--	419	7.7	19.3	--	--	--	8.3
22...	1713	1.0	--	418	7.7	19.2	--	--	--	8.2
22...	1714	1.5	--	417	7.7	19.3	--	--	--	8.2
23...	1349	.30	1.55	426	7.7	18.8	--	--	--	7.8
23...	1350	.50	--	426	7.7	18.0	--	--	--	7.8
23...	1351	1.0	--	427	7.7	17.8	--	--	--	7.8
23...	1352	1.4	--	426	7.7	17.7	--	--	--	7.8
MAR										
22...	1620	.30	2.05	571	7.8	23.8	2030	--	--	7.7
22...	1621	.50	--	573	7.9	23.8	--	--	--	7.7
22...	1622	1.0	--	573	7.9	23.8	--	--	--	7.7
22...	1623	1.5	--	571	7.9	23.8	--	--	--	7.7
22...	1624	1.9	--	576	7.9	23.8	--	--	1.9	7.6
23...	1300	.30	2.25	568	7.8	23.1	--	--	--	7.6
23...	1301	.50	--	568	7.8	23.1	--	--	--	7.6
23...	1302	1.0	--	568	7.8	23.1	--	--	--	7.6
23...	1303	1.5	--	567	7.8	22.9	--	--	--	7.4
23...	1304	2.0	--	568	7.7	22.4	--	--	--	7.3

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

02297330 - PEACE RIVER AT FT. OGDEN FL

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH (00031)	OXYGEN, DISSOLVED (MG/L) (00300)
APR										
19...	1500	.30	1.85	1130	7.9	25.2	2320	--	--	7.8
19...	1501	.50	--	1140	7.9	25.2	--	--	--	7.8
19...	1502	1.0	--	1140	7.9	25.2	--	--	--	7.7
19...	1503	1.5	--	1140	7.9	25.1	--	--	--	7.6
19...	1504	1.7	--	1140	7.9	25.1	--	--	8.1	7.6
20...	1141	.30	2.65	1040	7.9	24.9	--	--	--	7.0
20...	1142	.50	--	1100	7.8	24.3	--	--	--	7.0
20...	1143	1.0	--	1140	7.8	23.9	--	--	--	6.8
20...	1144	1.5	--	1140	7.8	23.6	--	--	--	6.7
20...	1145	2.0	--	1140	7.7	23.4	--	--	--	6.5
20...	1146	2.5	--	1140	7.7	23.3	--	--	--	6.4
MAY										
25...	1518	.30	2.55	748	7.5	29.0	2280	--	--	5.6
25...	1519	.50	--	747	7.4	29.0	--	--	--	5.5
25...	1520	1.0	--	750	7.4	29.0	--	--	--	5.5
25...	1521	1.5	--	747	7.4	28.9	--	--	--	5.4
25...	1522	2.0	--	750	7.4	28.7	--	--	--	5.2
25...	1523	2.4	--	754	7.4	28.4	--	--	2.7	5.1
26...	1136	.30	1.85	786	7.3	28.3	--	--	--	4.9
26...	1137	.50	--	785	7.3	28.2	--	--	--	4.9
26...	1138	1.0	--	787	7.3	28.2	--	--	--	4.9
26...	1139	1.5	--	787	7.3	28.2	--	--	--	4.8
JUN										
22...	1520	.30	2.05	454	7.1	27.9	1340	1.0	--	3.7
22...	1521	.50	--	457	7.0	27.9	--	--	--	3.6
22...	1522	1.0	--	450	7.0	27.9	--	--	--	3.6
22...	1523	1.5	--	448	7.0	27.9	--	--	--	3.6
22...	1524	1.9	--	463	7.0	27.9	--	--	--	3.5
23...	1117	.30	3.15	431	7.1	27.6	--	--	--	5.2
23...	1118	.50	--	427	7.1	27.6	--	--	--	5.2
23...	1119	1.0	--	429	7.1	27.2	--	--	--	5.1
23...	1120	1.5	--	422	7.0	27.1	--	--	--	5.1
23...	1121	2.0	--	424	7.0	27.1	--	--	--	5.0
23...	1122	2.5	--	418	7.0	27.1	--	--	--	5.0
23...	1123	3.0	--	426	7.0	27.1	--	--	--	5.0
JUL										
27...	1454	.30	2.65	308	7.7	32.1	2410	.75	--	5.3
27...	1455	.50	--	309	7.6	31.5	--	--	--	5.3
27...	1456	1.0	--	307	7.5	30.3	--	--	--	5.3
27...	1457	1.5	--	302	7.4	29.8	--	--	--	5.3
27...	1458	2.0	--	310	7.4	29.8	--	--	--	5.1
27...	1459	2.5	--	309	7.4	29.8	--	--	--	5.1
28...	1129	.30	1.25	319	7.7	30.4	--	--	--	5.2
28...	1130	.50	--	334	7.7	30.3	--	--	--	5.2
28...	1131	1.0	--	323	7.6	30.1	--	--	--	5.2
AUG										
23...	1501	.30	3.15	298	7.1	28.0	2320	.90	--	6.1
23...	1502	.50	--	299	7.1	28.0	--	--	--	6.0
23...	1503	1.0	--	300	7.1	28.0	--	--	--	6.0
23...	1504	1.5	--	300	7.1	27.9	--	--	--	5.9
23...	1505	2.0	--	300	7.1	27.8	--	--	--	5.8
23...	1506	2.5	--	300	7.1	27.8	--	--	--	5.7
23...	1507	3.0	--	300	7.0	27.8	--	--	--	5.7
24...	1113	.30	2.65	276	7.1	28.4	--	--	--	5.9
24...	1114	.50	--	280	7.0	27.5	--	--	--	5.8
24...	1115	1.0	--	271	7.0	27.3	--	--	--	5.7
24...	1116	1.5	--	274	7.0	27.3	--	--	--	5.7
24...	1117	2.0	--	279	7.0	27.3	--	--	--	5.7
24...	1118	2.5	--	278	7.0	27.3	--	--	--	5.6
SEP										
23...	1434	.30	2.25	285	7.2	26	1280	.80	--	5.9
23...	1435	.50	--	275	7.2	26.4	--	--	--	5.9
23...	1436	1.0	--	293	7.2	26.4	--	--	--	5.9
23...	1437	1.5	--	281	7.2	26.4	--	--	--	5.8
23...	1438	2.0	--	285	7.1	26.4	--	--	--	5.8
24...	1143	.30	1.75	278	7.1	25.6	--	--	--	5.7
24...	1144	.50	--	278	7.1	25.6	--	--	--	5.7
24...	1145	1.0	--	285	7.1	25.5	--	--	--	5.7
24...	1146	1.5	--	282	7.1	25.5	--	--	--	5.7

265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH (00031)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT										
28...	1021	.30	3.75	33200	8.2	23.6	2450	3.8	--	7.0
28...	1022	.50	--	33200	8.2	23.6	--	--	--	7.2
28...	1023	1.0	--	33800	8.2	23.5	--	--	--	7.0
28...	1024	1.5	--	34200	8.1	23.5	--	--	--	6.7
28...	1025	2.0	--	34500	8.1	23.6	--	--	--	6.3
28...	1026	2.5	--	35400	8.1	23.9	--	--	--	5.9
28...	1027	3.0	--	35500	8.1	23.9	--	--	--	5.6
28...	1028	3.5	--	35800	8.1	24.0	--	--	--	5.2
29...	0931	.30	4.15	32800	8.1	23.7	--	--	--	7.0
29...	0932	.50	--	32700	8.2	23.7	--	--	--	7.0
29...	0933	1.0	--	32500	8.1	23.6	--	--	--	7.0
29...	0934	1.5	--	33200	8.1	23.6	--	--	--	6.9
29...	0935	2.0	--	34000	8.1	23.4	--	--	--	6.8
29...	0936	2.5	--	34700	8.1	23.8	--	--	--	6.4
29...	0937	3.0	--	36900	8.0	24.1	--	--	--	5.0
29...	0938	3.5	--	36500	8.0	24.1	--	--	--	4.9
29...	0939	4.0	--	37000	8.0	24.1	--	--	--	4.9
NOV										
17...	1023	.30	3.85	33200	8.2	25.5	2450	3.2	--	8.8
17...	1024	.50	--	33300	8.2	25.1	--	--	--	8.9
17...	1025	1.0	--	33700	8.2	24.8	--	--	--	8.3
17...	1026	1.5	--	34900	8.0	24.2	--	--	--	6.0
17...	1027	2.0	--	36500	7.8	24.0	--	--	--	4.0
17...	1028	2.5	--	37900	7.7	23.6	--	--	--	3.0
17...	1029	3.0	--	38200	7.7	23.6	--	--	--	2.6
17...	1030	3.5	--	38300	7.7	23.5	--	--	--	2.4
18...	0916	.30	3.75	34900	7.8	24.4	--	--	--	5.1
18...	0917	.50	--	34900	7.8	24.4	--	--	--	5.0
18...	0918	1.0	--	34800	7.8	24.4	--	--	--	4.8
18...	0919	1.5	--	35000	7.8	24.4	--	--	--	4.8
18...	0920	2.0	--	35100	7.8	24.3	--	--	--	4.4
18...	0921	2.5	--	35500	7.8	24.3	--	--	--	4.1
18...	0923	3.0	--	38100	7.7	23.9	--	--	--	2.3
18...	0924	3.5	--	38700	7.7	23.9	--	--	--	2.2
DEC										
28...	1116	.30	4.05	39900	8.0	21.4	1300	--	--	7.3
28...	1117	.50	--	39900	8.0	21.4	--	--	--	7.3
28...	1118	1.0	--	39600	8.0	21.3	--	--	--	7.3
28...	1119	1.5	--	39400	8.0	21.3	--	--	--	7.2
28...	1121	2.0	--	39900	8.0	21.3	--	--	--	7.1
28...	1122	2.5	--	39600	8.0	21.3	--	--	--	7.1
28...	1123	3.0	--	40000	8.0	21.3	--	--	--	7.0
28...	1124	3.5	--	40200	8.0	21.3	--	--	--	7.0
28...	1125	3.9	--	40000	8.0	21.3	--	--	2.6	7.0
JAN										
25...	1032	.30	3.65	40000	7.9	20.7	2440	--	--	7.0
25...	1033	.50	--	40000	7.9	20.7	--	--	--	7.0
25...	1034	1.0	--	40000	7.9	20.7	--	--	--	6.9
25...	1035	1.5	--	40000	7.9	20.7	--	--	--	6.9
25...	1036	2.0	--	40100	8.0	20.6	--	--	--	6.9
25...	1037	2.5	--	40200	8.0	20.6	--	--	--	6.9
25...	1038	3.0	--	41700	8.0	20.8	--	--	--	6.4
25...	1039	3.5	--	41700	8.0	20.8	--	--	3.7	6.3
26...	0932	.30	3.75	39900	8.0	20.3	--	--	--	7.2
26...	0933	.50	--	38200	8.0	20.3	--	--	--	7.2
26...	0934	1.0	--	39700	8.0	20.3	--	--	--	7.2
26...	0935	1.5	--	37500	8.0	20.3	--	--	--	7.2
26...	0936	2.0	--	39700	8.0	20.3	--	--	--	7.1
26...	0937	2.5	--	39200	8.0	20.3	--	--	--	7.1
26...	0938	3.0	--	41400	8.0	20.8	--	--	--	6.6
26...	0939	3.5	--	41500	8.0	20.8	--	--	--	6.5

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT INCI-DENT PERCENT REMAIN-ING AT DEPTH (00031)	OXYGEN, DIS-SOLVED (MG/L) (00300)
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA									
FEB									
22...	1020	.30	3.55	37100	7.9	18.2	2610	--	7.3
22...	1021	.50	--	37000	7.9	18.2	--	--	7.3
22...	1022	1.0	--	37100	7.9	18.2	--	--	7.3
22...	1023	1.5	--	37200	7.9	18.3	--	--	7.2
22...	1024	2.0	--	37500	8.0	18.3	--	--	7.2
22...	1025	2.5	--	39100	8.0	18.6	--	--	7.1
22...	1026	3.0	--	39800	8.0	18.9	--	--	7.0
22...	1027	3.4	--	39900	8.0	18.9	--	3.1	6.9
23...	0910	.30	3.85	39300	8.1	17.5	--	--	7.7
23...	0911	.50	--	39300	8.1	17.5	--	--	7.7
23...	0912	1.0	--	39300	8.1	17.6	--	--	7.7
23...	0913	1.5	--	39300	8.1	17.5	--	--	7.6
23...	0914	2.0	--	39400	8.1	17.7	--	--	7.6
23...	0915	2.5	--	39900	8.1	18.1	--	--	7.3
23...	0916	3.0	--	39900	8.1	18.1	--	--	7.3
23...	0917	3.5	--	40000	8.1	18.1	--	--	7.3
23...	0918	3.7	--	40000	8.1	18.1	--	--	7.3
MAR									
22...	1035	.30	3.65	41200	8.0	21.4	2520	--	6.7
22...	1036	.50	--	41200	8.0	21.4	--	--	6.7
22...	1037	1.0	--	41400	8.0	21.4	--	--	6.7
22...	1038	1.5	--	41400	8.0	21.3	--	--	6.7
22...	1039	2.0	--	41500	8.0	21.3	--	--	6.6
22...	1040	2.5	--	41200	8.0	21.2	--	--	6.6
22...	1041	3.0	--	42000	8.0	21.2	--	--	6.4
22...	1042	3.5	--	42400	8.0	21.3	--	1.5	6.2
23...	0911	.30	3.75	42300	8.0	20.9	--	--	7.0
23...	0912	.50	--	42200	8.0	20.9	--	--	6.9
23...	0913	1.0	--	42200	8.0	20.9	--	--	6.9
23...	0914	1.5	--	42300	8.0	20.9	--	--	6.9
23...	0915	2.0	--	42200	8.0	20.9	--	--	6.8
23...	0916	2.5	--	42200	8.0	20.9	--	--	6.8
23...	0917	3.0	--	42300	8.0	20.9	--	--	6.8
23...	0918	3.5	--	42200	8.0	20.9	--	--	6.8
APR									
19...	0911	.30	3.65	44500	8.0	23.4	2330	--	6.6
19...	0912	.50	--	44600	8.0	23.4	--	--	6.6
19...	0913	1.0	--	44500	8.0	23.3	--	--	6.6
19...	0914	1.5	--	44700	8.0	23.3	--	--	6.5
19...	0915	2.0	--	44800	8.0	23.3	--	--	6.5
19...	0916	2.5	--	44800	8.0	23.3	--	--	6.4
19...	0917	3.0	--	44600	8.0	23.3	--	--	6.4
19...	0918	3.5	--	44600	8.0	23.3	--	2.7	6.4
20...	0805	.30	3.75	44600	8.0	22.8	--	--	6.6
20...	0806	.50	--	44600	8.0	22.8	--	--	6.6
20...	0807	1.0	--	44600	8.0	22.8	--	--	6.6
20...	0808	1.5	--	44500	8.0	22.8	--	--	6.6
20...	0809	2.0	--	44700	8.1	22.8	--	--	6.6
20...	0810	2.5	--	44700	8.1	22.8	--	--	6.6
20...	0811	3.0	--	44700	8.1	22.8	--	--	6.6
20...	0812	3.5	--	44700	8.1	22.8	--	--	6.6

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH (00031)	OXYGEN, DISSOLVED (MG/L) (00300)
MAY										
25...	0951	.30	4.05	45800	7.9	28.2	2940	--	--	6.9
25...	0952	.50	--	45900	8.0	28.2	--	--	--	6.9
25...	0953	1.0	--	45900	8.0	28.2	--	--	--	6.9
25...	0954	1.5	--	46000	8.0	28.0	--	--	--	6.9
25...	0955	2.0	--	47200	8.0	28.1	--	--	--	6.7
25...	0956	2.5	--	47500	8.0	28.0	--	--	--	6.5
25...	0957	3.0	--	47700	8.0	27.9	--	--	--	5.7
25...	0958	3.5	--	47800	7.9	27.9	--	--	--	5.3
25...	0959	3.9	--	47800	7.9	27.9	--	--	4.2	5.2
26...	0820	.30	3.95	45600	8.1	28.1	--	--	--	6.4
26...	0821	.50	--	45400	8.1	28.1	--	--	--	6.3
26...	0822	1.0	--	45900	8.1	28.1	--	--	--	6.3
26...	0823	1.5	--	46100	8.1	28.1	--	--	--	6.2
26...	0824	2.0	--	46100	8.1	27.9	--	--	--	6.1
26...	0825	2.5	--	46400	8.1	27.9	--	--	--	5.8
26...	0826	3.0	--	47000	8.1	27.9	--	--	--	5.7
26...	0827	3.5	--	48000	7.9	28.1	--	--	--	4.1
26...	0828	3.8	--	48200	7.9	28.1	--	--	--	4.0
JUN										
22...	0921	.30	4.15	34700	8.0	28.3	2640	--	--	4.5
22...	0922	.50	--	34800	8.0	28.2	--	--	--	4.4
22...	0923	1.0	--	38500	8.0	27.9	--	--	--	4.5
22...	0924	1.5	--	42000	8.0	27.5	--	--	--	4.4
22...	0925	2.0	--	43000	8.1	27.5	--	--	--	4.3
22...	0926	2.5	--	43900	8.0	28.0	--	--	--	4.0
22...	0927	3.0	--	45200	8.0	28.4	--	--	--	3.5
22...	0928	3.5	--	45400	8.0	28.4	--	--	--	3.4
22...	0929	4.0	--	45400	8.0	28.4	--	--	3.0	3.4
23...	0801	.30	4.15	34400	7.8	27.9	--	--	--	7.1
23...	0802	.50	--	35400	7.9	27.9	--	--	--	7.0
23...	0803	1.0	--	36600	7.9	28.0	--	--	--	6.7
23...	0804	1.5	--	37800	7.9	28.5	--	--	--	5.4
23...	0805	2.0	--	42600	7.9	28.4	--	--	--	4.6
23...	0806	2.5	--	45700	7.9	28.3	--	--	--	4.8
23...	0807	3.0	--	45400	7.9	28.2	--	--	--	4.7
23...	0808	3.5	--	45400	7.9	28.2	--	--	--	4.6
23...	0809	4.0	--	45400	7.9	28.2	--	--	--	4.6
JUL										
27...	0900	.30	4.05	19700	8.2	31.7	2360	1.7	--	7.5
27...	0901	.50	--	22200	8.1	31.6	--	--	--	6.9
27...	0902	1.0	--	23700	8.1	31.2	--	--	--	5.6
27...	0903	1.5	--	26200	7.9	31.4	--	--	--	3.2
27...	0904	2.0	--	31600	7.7	30.6	--	--	--	1.2
27...	0905	2.5	--	32100	7.7	30.7	--	--	--	.5
27...	0906	3.0	--	32300	7.6	30.5	--	--	--	.2
27...	0907	3.5	--	33700	7.6	30.1	--	--	--	.2
27...	0908	3.9	--	33700	7.6	30.1	--	--	--	.2
28...	0833	.30	3.95	20000	8.1	31.5	--	--	--	7.4
28...	0834	.50	--	20400	8.1	31.5	--	--	--	7.0
28...	0835	1.0	--	23300	8.0	31.6	--	--	--	5.5
28...	0836	1.5	--	25600	7.8	31.4	--	--	--	2.8
28...	0837	2.0	--	31700	7.6	31.2	--	--	--	.3
28...	0838	2.5	--	32800	7.6	30.4	--	--	--	.2
28...	0840	3.0	--	33700	7.5	30.4	--	--	--	.2
28...	0841	3.5	--	34100	7.5	30.4	--	--	--	.2
28...	0842	3.8	--	33900	7.5	30.4	--	--	--	.2

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS-SOLVED (MG/L) (00300)
AUG									
23...	0938	.30	4.15	24400	7.9	29.1	2570	2.0	7.3
23...	0939	.50	--	24300	7.9	29.1	--	--	7.2
23...	0940	1.0	--	24400	7.9	29.1	--	--	7.0
23...	0941	1.5	--	24500	8.0	29.1	--	--	7.0
23...	0942	2.0	--	24500	8.0	29.1	--	--	6.8
23...	0943	2.5	--	24900	8.0	29.1	--	--	6.6
23...	0944	3.0	--	28800	7.7	29.6	--	--	1.7
23...	0945	3.5	--	31500	7.6	29.8	--	--	.7
23...	0946	4.0	--	33700	7.5	29.9	--	--	.3
24...	0744	.30	4.05	16600	7.6	28.6	--	--	6.3
24...	0745	.50	--	17600	7.7	28.6	--	--	6.6
24...	0746	1.0	--	20300	7.9	28.7	--	--	7.2
24...	0747	1.5	--	22000	8.0	28.5	--	--	6.8
24...	0748	2.0	--	22600	8.0	28.6	--	--	6.6
24...	0749	2.5	--	28600	7.9	29.1	--	--	4.3
24...	0750	3.0	--	30200	7.9	29.1	--	--	4.2
24...	0751	3.5	--	30500	7.8	29.3	--	--	3.4
24...	0752	3.9	--	32800	7.6	29.7	--	--	.4
SEP									
23...	0901	.30	3.95	24100	7.6	25.9	2480	2.4	6.7
23...	0902	.50	--	24100	7.6	25.9	--	--	6.6
23...	0903	1.0	--	24500	7.7	25.9	--	--	6.5
23...	0904	1.5	--	26100	7.7	25.9	--	--	6.4
23...	0905	2.0	--	27600	7.8	26.1	--	--	6.0
23...	0906	2.5	--	36800	7.8	27.1	--	--	3.9
23...	0907	3.0	--	38000	7.8	27.2	--	--	3.8
23...	0908	3.5	--	38000	7.8	27.2	--	--	3.7
23...	0909	3.8	--	38000	7.8	27.2	--	--	3.7
24...	0822	.30	3.95	25500	7.4	26.1	--	--	6.7
24...	0823	.50	--	26500	7.6	26.0	--	--	6.5
24...	0824	1.0	--	27300	7.7	26.0	--	--	6.1
24...	0825	1.5	--	28600	7.8	26.0	--	--	5.4
24...	0826	2.0	--	33800	7.7	27.0	--	--	3.6
24...	0827	2.5	--	36200	7.7	27.1	--	--	3.2
24...	0828	3.0	--	36400	7.8	27.1	--	--	3.2
24...	0829	3.5	--	36500	7.8	27.1	--	--	3.1
24...	0830	3.8	--	36800	7.8	27.1	--	--	3.1

265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCIDENT PERCENT REMAINING AT DEPTH (00031)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT										
28...	1135	.30	2.95	25000	8.3	24.1	3060	2.1	--	7.9
28...	1136	.50	--	24300	8.4	24.2	--	--	--	7.8
28...	1137	1.0	--	24600	8.4	24.1	--	--	--	7.7
28...	1138	1.5	--	25100	8.3	24.0	--	--	--	7.4
28...	1139	2.0	--	25400	8.3	24.0	--	--	--	7.4
28...	1140	2.5	--	25500	8.3	24.0	--	--	--	7.4
28...	1141	2.8	--	25600	8.3	24.0	--	--	--	7.3
29...	0954	.30	3.05	23700	8.3	23.6	--	--	--	7.4
29...	0955	.50	--	24800	8.3	23.6	--	--	--	7.0
29...	0956	1.0	--	29000	8.1	23.9	--	--	--	5.8
29...	0957	1.5	--	33300	7.9	24.2	--	--	--	5.0
29...	0958	2.0	--	33800	7.9	24.2	--	--	--	4.8
29...	0959	2.5	--	34000	7.9	24.2	--	--	--	4.7
29...	1000	2.9	--	33600	7.9	24.2	--	--	--	4.7
NOV										
17...	1141	.30	2.95	23400	7.9	25.5	2660	1.9	--	8.1
17...	1142	.50	--	23700	7.9	25.4	--	--	--	8.1
17...	1143	1.0	--	26800	7.9	24.9	--	--	--	6.6
17...	1144	1.5	--	30300	7.7	24.4	--	--	--	5.3
17...	1145	2.0	--	30900	7.7	24.4	--	--	--	4.9
17...	1146	2.5	--	31900	7.6	24.3	--	--	--	4.2
17...	1147	2.8	--	32100	7.6	24.3	--	--	--	4.1
18...	0936	.30	3.05	14300	7.5	25.3	--	--	--	6.3
18...	0937	.50	--	14200	7.5	25.3	--	--	--	6.2
18...	0938	1.0	--	16100	7.4	25.1	--	--	--	5.5
18...	0939	1.5	--	26000	7.4	25.2	--	--	--	4.2
18...	0940	2.0	--	27900	7.4	24.9	--	--	--	3.9
18...	0941	2.5	--	33000	7.3	24.5	--	--	--	1.7
18...	0942	2.9	--	34200	7.3	24.5	--	--	--	1.6
DEC										
28...	1240	.30	3.15	28800	8.2	21.6	910	2.7	--	9.0
28...	1241	.50	--	29700	8.1	21.5	--	--	--	8.4
28...	1242	1.0	--	35900	8.0	21.3	--	--	--	7.7
28...	1243	1.5	--	36900	7.9	21.4	--	--	--	6.3
28...	1244	2.0	--	37000	7.9	21.4	--	--	--	6.1
28...	1245	2.5	--	36900	7.8	21.4	--	--	--	5.6
28...	1246	3.0	--	38600	7.8	21.4	--	--	--	5.5
29...	0931	.30	2.75	32900	8.0	21.1	--	--	--	6.9
29...	0932	.50	--	33800	8.0	21.1	--	--	--	6.6
29...	0933	1.0	--	33900	7.9	21.1	--	--	--	6.2
29...	0934	1.5	--	37000	7.9	21.3	--	--	--	5.6
29...	0935	2.0	--	37200	7.9	21.4	--	--	--	5.3
29...	0936	2.5	--	38100	7.9	21.4	--	--	--	5.2
JAN										
25...	1210	.30	2.85	25400	7.9	21.2	2500	--	--	7.7
25...	1211	.50	--	25700	7.9	21.2	--	--	--	7.6
25...	1212	1.0	--	30100	7.9	20.8	--	--	--	7.1
25...	1213	1.5	--	37300	7.8	21.6	--	--	--	5.9
25...	1214	2.0	--	38000	7.8	21.8	--	--	--	5.9
25...	1215	2.5	--	38100	7.8	21.8	--	--	--	5.9
25...	1216	2.7	--	38100	7.8	21.8	--	--	3.2	5.9
26...	1001	.30	2.85	34100	7.8	20.5	--	--	--	6.7
26...	1002	.50	--	34100	7.8	20.5	--	--	--	6.6
26...	1003	1.0	--	34100	7.8	20.5	--	--	--	6.6
26...	1004	1.5	--	34200	7.9	20.5	--	--	--	6.5
26...	1005	2.0	--	37100	7.8	21.1	--	--	--	5.8
26...	1006	2.5	--	37800	7.8	21.2	--	--	--	5.8
26...	1007	2.7	--	37800	7.8	21.2	--	--	--	5.8

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCI-DENT PERCENT REMAIN-ING AT DEPTH (00031)	OXYGEN, DIS-SOLVED (MG/L) (00300)
FEB										
22...	1151	.30	2.65	27000	7.8	18.2	2530	--	--	7.9
22...	1152	.50	--	26900	7.8	18.2	--	--	--	7.8
22...	1153	1.0	--	27100	7.8	18.2	--	--	--	7.7
22...	1154	1.5	--	28900	7.8	18.2	--	--	--	7.4
22...	1155	2.0	--	32100	7.8	18.4	--	--	--	7.0
22...	1156	2.5	--	33500	7.7	18.9	--	--	2.2	5.7
23...	0931	.30	3.05	31400	8.0	16.2	--	--	--	7.9
23...	0932	.50	--	31400	8.0	16.2	--	--	--	7.8
23...	0933	1.0	--	34100	8.0	16.8	--	--	--	7.6
23...	0934	1.5	--	34100	8.0	16.9	--	--	--	7.5
23...	0935	2.0	--	34500	8.0	17.0	--	--	--	7.4
23...	0936	2.5	--	35400	7.9	17.7	--	--	--	6.4
23...	0937	2.9	--	35700	7.9	17.9	--	--	--	6.3
MAR										
22...	1151	.30	3.05	34400	8.0	22.7	2620	2.8	--	7.1
22...	1152	.50	--	34400	8.0	22.7	--	--	--	7.0
22...	1153	1.0	--	34600	8.0	22.2	--	--	--	6.7
22...	1154	1.5	--	34900	8.0	22.1	--	--	--	6.5
22...	1155	2.0	--	35200	7.9	22.0	--	--	--	6.5
22...	1156	2.5	--	34900	7.9	22.0	--	--	--	6.4
22...	1157	2.9	--	35400	7.9	22.0	--	--	--	6.3
23...	0930	.30	3.05	36100	8.0	21.3	--	--	--	7.3
23...	0931	.50	--	36000	8.0	21.2	--	--	--	7.3
23...	0932	1.0	--	36500	8.0	21.4	--	--	--	7.0
23...	0933	1.5	--	37200	7.9	21.6	--	--	--	6.6
23...	0934	2.0	--	37400	7.9	21.6	--	--	--	6.4
23...	0935	2.5	--	37600	7.9	21.7	--	--	--	6.1
23...	0936	2.9	--	38200	7.9	21.8	--	--	--	6.0
APR										
19...	1023	.30	2.65	36900	7.8	22.8	2790	--	--	6.6
19...	1024	.50	--	36900	7.8	22.8	--	--	--	6.5
19...	1025	1.0	--	37600	7.8	22.6	--	--	--	6.3
19...	1026	1.5	--	37900	7.8	22.5	--	--	--	6.2
19...	1027	2.0	--	38100	7.8	22.5	--	--	--	6.1
19...	1028	2.5	--	38600	7.8	22.4	--	--	4.7	5.8
20...	0825	.30	2.95	39300	7.8	21.6	--	--	--	6.7
20...	0826	.50	--	39200	7.8	21.6	--	--	--	6.7
20...	0827	1.0	--	39300	7.8	21.6	--	--	--	6.6
20...	0828	1.5	--	39500	7.8	21.5	--	--	--	6.4
20...	0829	2.0	--	39500	7.8	21.4	--	--	--	6.3
20...	0830	2.5	--	39500	7.8	21.4	--	--	--	6.3
20...	0831	2.8	--	39500	7.8	21.4	--	--	--	6.3
MAY										
25...	1104	.30	3.15	41800	7.8	28.5	2680	3.0	--	6.4
25...	1105	.50	--	41800	7.8	28.5	--	--	--	6.4
25...	1106	1.0	--	41800	7.9	28.5	--	--	--	6.3
25...	1107	1.5	--	41800	7.9	28.4	--	--	--	6.3
25...	1108	2.0	--	41900	7.9	28.4	--	--	--	6.2
25...	1109	2.5	--	41800	7.9	28.4	--	--	--	6.2
25...	1110	3.0	--	41800	7.9	28.5	--	--	--	6.2
26...	0837	.30	3.15	37300	7.9	28.6	--	--	--	5.9
26...	0838	.50	--	37400	7.9	28.5	--	--	--	5.9
26...	0839	1.0	--	37800	8.0	28.4	--	--	--	5.8
26...	0840	1.5	--	40500	8.0	28.4	--	--	--	5.4
26...	0841	2.0	--	41300	8.0	28.5	--	--	--	5.3
26...	0842	2.5	--	41300	8.0	28.4	--	--	--	5.2
26...	0843	3.0	--	41500	8.0	28.4	--	--	--	5.2

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	LIGHT INCI-DENT PERCENT REMAIN-ING AT DEPTH (00031)	OXYGEN, DIS-SOLVED (MG/L) (00300)
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA										
JUN										
22...	1034	.30	3.15	21500	7.4	29.5	2110	--	--	3.5
22...	1035	.50	--	32300	7.5	28.8	--	--	--	3.2
22...	1036	1.0	--	41500	7.7	28.6	--	--	--	2.7
22...	1037	1.5	--	42800	7.8	28.6	--	--	--	2.8
22...	1038	2.0	--	41900	7.8	28.6	--	--	--	2.9
22...	1039	2.5	--	43400	7.9	28.6	--	--	--	2.9
22...	1041	3.0	--	43000	7.9	28.6	--	--	3.1	2.8
23...	0822	.30	3.05	30400	7.6	28.4	--	--	--	6.1
23...	0823	.50	--	30300	7.7	28.4	--	--	--	5.9
23...	0824	1.0	--	37400	7.7	28.6	--	--	--	4.0
23...	0825	1.5	--	41400	7.7	28.7	--	--	--	3.8
23...	0826	2.0	--	42600	7.8	28.6	--	--	--	4.0
23...	0827	2.5	--	42700	7.8	28.6	--	--	--	4.0
23...	0828	2.9	--	42700	7.8	28.6	--	--	--	3.9
JUL										
27...	1015	.30	3.15	10400	7.8	32.3	2580	1.8	--	6.6
27...	1016	.50	--	16200	7.7	32.0	--	--	--	5.9
27...	1017	1.0	--	18700	7.6	31.8	--	--	--	3.5
27...	1018	1.5	--	20000	7.6	31.7	--	--	--	3.9
27...	1019	2.0	--	24900	7.4	31.3	--	--	--	.9
27...	1021	2.5	--	29400	7.4	30.7	--	--	--	.3
27...	1022	3.0	--	29700	7.4	30.6	--	--	--	.2
28...	0853	.30	2.85	8320	7.7	31.7	--	--	--	5.2
28...	0854	.50	--	9600	7.6	31.6	--	--	--	5.0
28...	0855	1.0	--	16800	7.6	31.9	--	--	--	4.1
28...	0856	1.5	--	25100	7.4	31.5	--	--	--	.9
28...	0857	2.0	--	26500	7.4	31.4	--	--	--	.4
28...	0858	2.5	--	29200	7.4	31.0	--	--	--	.2
28...	0859	2.7	--	29400	7.4	31.0	--	--	--	.2
AUG										
23...	1052	.30	3.65	9860	7.7	29.5	3020	1.4	--	6.0
23...	1053	.50	--	9890	7.6	29.4	--	--	--	5.9
23...	1054	1.0	--	10300	7.6	29.1	--	--	--	5.7
23...	1055	1.5	--	20600	7.4	29.9	--	--	--	3.5
23...	1056	2.0	--	21000	7.4	30.0	--	--	--	3.4
23...	1057	2.5	--	23200	7.4	29.9	--	--	--	2.9
23...	1058	3.0	--	23400	7.5	29.9	--	--	--	2.8
23...	1059	3.5	--	23200	7.5	29.9	--	--	--	2.8
24...	0808	.30	3.15	5460	7.1	28.2	--	--	--	5.1
24...	0809	.50	--	5600	7.1	28.2	--	--	--	4.9
24...	0810	1.0	--	14700	7.2	29.5	--	--	--	3.7
24...	0811	1.5	--	16100	7.2	29.4	--	--	--	3.4
24...	0812	2.0	--	20300	7.3	29.8	--	--	--	2.7
24...	0813	2.5	--	21600	7.3	29.8	--	--	--	2.5
24...	0814	3.0	--	22100	7.3	29.8	--	--	--	2.4
SEP										
23...	1022	.30	3.15	18000	7.5	27.0	2630	2.4	--	5.8
23...	1023	.50	--	18300	7.5	26.9	--	--	--	5.8
23...	1024	1.0	--	22900	7.6	26.7	--	--	--	5.3
23...	1025	1.5	--	29000	7.6	27.0	--	--	--	4.6
23...	1026	2.0	--	29900	7.7	27.1	--	--	--	4.5
23...	1027	2.5	--	32000	7.7	27.1	--	--	--	4.1
23...	1028	3.0	--	32200	7.7	27.1	--	--	--	4.0
24...	0848	.30	2.95	11800	7.4	26.2	--	--	--	5.2
24...	0849	.50	--	12200	7.4	26.1	--	--	--	5.1
24...	0850	1.0	--	16900	7.4	26.6	--	--	--	4.8
24...	0851	1.5	--	23100	7.5	26.8	--	--	--	4.5
24...	0852	2.0	--	24800	7.6	26.8	--	--	--	3.9
24...	0853	2.5	--	31200	7.6	27.1	--	--	--	3.0
24...	0854	2.8	--	31900	7.6	27.2	--	--	--	3.0

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

265711081595500 - PEACE RIVER AT RIVER MILE 8.61 NEAR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1040	.30	3.75	10100	8.8	24.3	10.7
29...	1041	.50	--	13800	8.7	24.2	9.5
29...	1042	1.0	--	23900	8.1	24.3	6.4
29...	1043	1.5	--	25200	8.1	24.3	5.9
29...	1044	2.0	--	25500	8.1	24.3	5.7
29...	1045	2.5	--	25600	8.1	24.4	5.6
29...	1046	3.0	--	25600	8.1	24.4	5.6
29...	1047	3.5	--	25900	8.1	24.4	5.6
NOV							
18...	1035	.30	3.35	248	7.0	24.8	5.8
18...	1036	.50	--	746	7.0	24.6	5.6
18...	1037	1.0	--	906	7.0	24.5	5.4
18...	1038	1.5	--	924	7.1	24.5	5.5
18...	1039	2.0	--	920	7.1	24.5	5.5
18...	1040	2.5	--	967	7.1	24.4	5.5
18...	1041	3.0	--	1080	7.1	24.4	5.4
DEC							
29...	1017	.30	4.15	19400	8.1	21.4	8.1
29...	1018	.50	--	21300	8.0	21.3	7.6
29...	1019	1.0	--	22100	7.9	21.4	6.7
29...	1020	1.5	--	21800	7.9	21.4	6.8
29...	1021	2.0	--	21700	7.9	21.4	6.8
29...	1022	2.5	--	23500	7.9	21.4	6.6
29...	1023	3.0	--	22200	7.9	21.4	6.6
29...	1024	3.5	--	23200	7.9	21.4	6.6
29...	1025	4.0	--	22700	7.9	21.4	6.6
JAN							
26...	1041	.30	3.35	11900	8.0	20.3	9.0
26...	1042	.50	--	12500	8.1	20.4	9.2
26...	1043	1.0	--	15400	7.9	20.8	7.6
26...	1044	1.5	--	16100	7.6	20.7	6.7
26...	1045	2.0	--	16800	7.6	20.8	6.5
26...	1046	2.5	--	16700	7.6	20.8	6.4
26...	1047	3.0	--	16300	7.6	20.8	6.5
FEB							
23...	1010	.30	3.75	16900	7.9	15.8	8.4
23...	1011	.50	--	17600	7.9	16.1	8.4
23...	1012	1.0	--	18700	7.9	16.8	7.9
23...	1013	1.5	--	19100	7.9	16.8	7.9
23...	1014	2.0	--	19200	7.9	16.9	7.9
23...	1015	2.5	--	19300	7.9	16.9	7.9
23...	1016	3.0	--	19300	7.9	16.9	7.9
23...	1017	3.5	--	19300	7.9	16.9	7.9
MAR							
23...	1008	.30	3.75	23800	7.6	21.2	6.4
23...	1009	.50	--	23900	7.6	21.2	6.3
23...	1010	1.0	--	24300	7.7	21.4	6.6
23...	1011	1.5	--	24700	7.7	21.6	6.4
23...	1012	2.0	--	24900	7.7	21.6	6.3
23...	1013	2.5	--	24900	7.7	21.6	6.3
23...	1014	3.0	--	25100	7.7	21.6	6.3
23...	1015	3.5	--	25400	7.7	21.6	6.2
APR							
20...	0901	.30	3.35	27100	7.7	21.0	6.6
20...	0902	.50	--	27100	7.7	21.1	6.7
20...	0903	1.0	--	27600	7.7	21.6	6.6
20...	0904	1.5	--	28000	7.7	21.7	6.6
20...	0905	2.0	--	28300	7.7	21.7	6.6
20...	0906	2.5	--	28200	7.7	21.7	6.6
20...	0907	3.0	--	28300	7.7	21.7	6.5
20...	0908	3.2	--	28300	7.7	21.7	6.5

265711081595500 - PEACE RIVER AT RIVER MILE 8.61 NEAR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
MAY							
26...	0918	.30	3.55	23600	7.7	28.5	5.6
26...	0919	.50	--	23900	7.7	28.5	5.6
26...	0920	1.0	--	25200	7.7	28.3	5.2
26...	0921	1.5	--	25800	7.7	28.2	5.0
26...	0922	2.0	--	25800	7.7	28.2	5.0
26...	0923	2.5	--	25800	7.7	28.2	5.0
26...	0924	3.0	--	25700	7.7	28.2	5.0
26...	0925	3.4	--	25800	7.7	28.2	5.0
JUN							
23...	0859	.30	3.75	6390	7.3	27.9	4.7
23...	0900	.50	--	6480	7.3	28.0	4.7
23...	0901	1.0	--	6480	7.2	27.9	4.6
23...	0902	1.5	--	12700	7.1	28.0	3.8
23...	0903	2.0	--	33000	7.2	28.7	2.2
23...	0904	2.5	--	34500	7.3	28.8	2.1
23...	0905	3.0	--	34800	7.4	28.8	2.0
23...	0906	3.5	--	35700	7.4	28.8	2.0
JUL							
28...	0930	.30	3.75	577	7.1	32.4	4.4
28...	0931	.50	--	553	7.1	31.5	4.1
28...	0932	1.0	--	548	7.1	31.0	4.0
28...	0933	1.5	--	518	7.1	31.0	4.0
28...	0934	2.0	--	516	7.1	30.9	4.1
28...	0935	2.5	--	513	7.1	30.9	4.0
28...	0936	3.0	--	518	7.1	30.9	4.0
28...	0937	3.5	--	521	7.1	30.9	4.0
AUG							
24...	0847	.30	3.95	368	7.0	28.3	5.2
24...	0848	.50	--	370	7.0	28.1	5.0
24...	0849	1.0	--	385	7.0	27.9	4.6
24...	0850	1.5	--	383	6.9	27.7	4.5
24...	0851	2.0	--	372	6.9	27.6	4.4
24...	0852	2.5	--	386	6.9	27.6	4.3
24...	0853	3.0	--	388	6.9	27.6	4.2
24...	0854	3.5	--	390	6.9	27.6	4.2
24...	0855	3.8	--	377	6.9	27.6	4.2
SEP							
24...	0932	.30	3.85	754	6.8	26.9	4.6
24...	0933	.50	--	763	6.9	26.6	4.5
24...	0934	1.0	--	761	6.9	26.0	4.3
24...	0935	1.5	--	754	6.9	25.9	4.3
24...	0936	2.0	--	834	6.9	25.9	4.4
24...	0937	2.5	--	865	7.0	25.9	4.4
24...	0938	3.0	--	855	7.0	25.9	4.4
24...	0939	3.5	--	837	7.0	25.9	4.3
24...	0940	3.7	--	836	7.0	25.9	4.3

265724082024400 - PEACE RIVER AT RIVER MILE 4.88 NEAR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1013	.30	2.35	21100	8.4	23.9	8.2
29...	1014	.50	--	21800	8.3	23.8	7.4
29...	1015	1.0	--	30800	8.0	24.1	5.2
29...	1016	1.5	--	31200	8.0	24.2	5.1
29...	1017	2.0	--	31600	8.0	24.2	4.9
NOV							
18...	0950	.30	1.75	6420	7.4	25.2	6.6
18...	0951	.50	--	6990	7.4	25.1	6.4
18...	0952	1.0	--	18500	7.3	25.4	5.3
18...	0953	1.5	--	26600	7.4	25.2	4.0
DEC							
29...	0951	.30	2.25	32700	7.9	21.2	6.3
29...	0952	.50	--	32800	7.9	21.2	6.2
29...	0953	1.0	--	33100	7.9	21.2	6.0
29...	0954	1.5	--	32800	7.9	21.2	5.8
29...	0955	2.0	--	34400	7.9	21.3	5.6
JAN							
26...	1013	.30	2.05	24700	7.8	20.6	7.0
26...	1014	.50	--	26700	7.8	20.7	6.9
26...	1015	1.0	--	35700	7.8	21.3	5.6
26...	1016	1.5	--	35600	7.8	21.3	5.6
26...	1017	1.9	--	35100	7.8	21.3	5.6
FEB							
23...	0947	.30	2.15	31400	8.0	16.7	7.5
23...	0948	.50	--	31500	8.0	16.7	7.4
23...	0949	1.0	--	32500	7.9	16.9	7.2
23...	0950	1.5	--	33200	7.9	17.0	7.1
23...	0951	2.0	--	33500	7.9	17.1	7.0
MAR							
23...	0943	.30	2.15	33700	8.0	21.5	7.4
23...	0944	.50	--	33800	8.0	21.5	7.3
23...	0945	1.0	--	34400	7.9	21.3	6.8
23...	0946	1.5	--	35300	7.9	21.1	6.6
23...	0947	2.0	--	35400	7.9	21.1	6.6
APR							
20...	0835	.30	1.95	36200	7.9	21.8	6.8
20...	0836	.50	--	36200	7.9	21.8	6.8
20...	0837	1.0	--	36200	7.9	21.8	6.8
20...	0838	1.5	--	37000	7.8	21.6	6.5
20...	0839	1.8	--	36900	7.8	21.6	6.5
MAY							
26...	0852	.30	2.35	33200	7.8	28.5	5.6
26...	0853	.50	--	33500	7.9	28.5	5.6
26...	0854	1.0	--	34300	7.9	28.4	5.5
26...	0855	1.5	--	37000	7.9	28.6	5.2
26...	0856	2.0	--	40300	7.9	29.0	4.5
26...	0857	2.2	--	40500	7.9	29.0	4.5
JUN							
23...	0834	.30	2.25	15500	7.3	27.9	5.0
23...	0835	.50	--	15900	7.3	27.8	4.8
23...	0836	1.0	--	39600	7.5	28.7	3.5
23...	0837	1.5	--	40800	7.6	28.8	3.3
23...	0838	2.0	--	40900	7.7	28.8	3.3
JUL							
28...	0905	.30	2.15	2170	7.8	31.9	5.1
28...	0906	.50	--	7200	7.5	31.9	3.6
28...	0907	1.0	--	13700	7.5	32.1	5.1
28...	0908	1.5	--	16700	7.5	32.0	3.9
28...	0909	2.0	--	16900	7.5	32.0	3.6
AUG							
24...	0820	.30	2.25	1750	7.2	28.0	5.3
24...	0821	.50	--	2170	7.3	28.1	4.9
24...	0822	1.0	--	8510	7.1	28.8	4.3
24...	0823	1.5	--	10900	7.2	29.0	4.4
24...	0824	2.0	--	14000	7.2	29.5	3.7
24...	0825	2.1	--	14100	7.2	29.5	3.7
SEP							
24...	0902	.30	2.15	5880	7.3	26.6	5.0
24...	0903	.50	--	6000	7.3	26.6	4.8
24...	0904	1.0	--	16800	7.2	27.1	4.4
24...	0905	1.5	--	17700	7.4	27.2	4.4
24...	0906	2.0	--	21200	7.4	27.2	4.6

265727082012800 - PEACE RIVER AT RIVER MILE 6.25 NEAR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1022	.30	3.45	19500	8.5	24.3	9.3
29...	1023	.50	--	20600	8.5	24.3	8.8
29...	1024	1.0	--	26700	8.1	24.4	6.2
29...	1025	1.5	--	27300	8.1	24.5	5.7
29...	1026	2.0	--	27800	8.0	24.5	5.5
29...	1027	2.5	--	28400	8.0	24.3	5.2
29...	1028	3.0	--	28500	8.0	24.4	5.2
29...	1029	3.3	--	28500	8.0	24.4	5.2
NOV							
18...	1002	.30	3.05	2100	7.2	25.1	5.7
18...	1003	.50	--	2310	7.2	24.8	5.6
18...	1004	1.0	--	3260	7.2	24.7	5.6
18...	1005	1.5	--	3510	7.2	24.7	5.6
18...	1006	2.0	--	4080	7.2	24.7	5.6
18...	1007	2.5	--	5040	7.2	24.7	5.5
18...	1008	2.9	--	8010	7.1	25.0	5.0
DEC							
29...	1004	.30	3.55	27000	8.1	21.4	7.7
29...	1005	.50	--	27200	8.1	21.3	7.4
29...	1006	1.0	--	27300	8.0	21.3	7.2
29...	1007	1.5	--	27700	8.0	21.3	6.8
29...	1008	2.0	--	27900	8.0	21.3	6.5
29...	1009	2.5	--	28300	7.9	21.3	6.2
29...	1010	3.0	--	28500	7.9	21.4	6.1
JAN							
26...	1028	.30	3.35	19000	7.9	21.0	8.0
26...	1029	.50	--	19100	7.9	21.0	7.8
26...	1030	1.0	--	19500	7.8	21.0	7.1
26...	1031	1.5	--	25400	7.7	21.1	6.0
26...	1032	2.0	--	28500	7.7	21.2	5.6
26...	1033	2.5	--	32100	7.6	21.5	5.1
26...	1034	3.0	--	33200	7.6	21.6	4.9
26...	1035	3.2	--	33400	7.6	21.6	4.9
FEB							
23...	0955	.30	3.45	24200	8.0	16.4	8.3
23...	0956	.50	--	24100	8.0	16.4	8.3
23...	0957	1.0	--	24200	8.0	16.4	8.2
23...	0958	1.5	--	25100	8.0	16.6	8.0
23...	0959	2.0	--	26100	7.9	16.9	7.5
23...	1000	2.5	--	27600	7.9	17.1	6.9
23...	1001	3.0	--	29500	7.8	17.6	6.4
23...	1002	3.3	--	29700	7.8	17.7	6.3
MAR							
23...	0953	.30	3.35	28800	7.9	21.2	7.3
23...	0954	.50	--	28800	7.9	21.2	7.3
23...	0955	1.0	--	29500	7.9	21.3	7.2
23...	0956	1.5	--	30300	7.9	21.3	6.9
23...	0957	2.0	--	31200	7.9	21.4	6.7
23...	0958	2.5	--	31400	7.8	21.4	6.4
23...	0959	3.0	--	31500	7.8	21.4	6.3
23...	1000	3.2	--	31500	7.8	21.5	6.2
APR							
20...	0844	.30	3.35	31200	7.8	21.5	7.0
20...	0845	.50	--	31600	7.8	21.5	7.0
20...	0846	1.0	--	31500	7.8	21.5	6.9
20...	0847	1.5	--	31700	7.8	21.5	6.9
20...	0848	2.0	--	32400	7.8	21.7	6.8
20...	0849	2.5	--	32500	7.8	21.7	6.8
20...	0850	3.0	--	32400	7.8	21.7	6.7
20...	0851	3.2	--	32600	7.8	21.7	6.7
MAY							
26...	0901	.30	3.45	28600	7.8	28.4	5.4
26...	0902	.50	--	28700	7.8	28.3	5.4
26...	0903	1.0	--	29700	7.8	28.2	5.3
26...	0904	1.5	--	31000	7.8	28.3	5.1
26...	0905	2.0	--	31800	7.8	28.3	4.9
26...	0906	2.5	--	31700	7.8	28.4	4.7
26...	0907	3.0	--	33100	7.8	28.5	4.5
26...	0908	3.3	--	34600	7.8	28.5	4.4

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

265727082012800 - PEACE RIVER AT RIVER MILE 6.25 NEAR PUNTA GORDA

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
JUN							
23...	0843	.30	3.55	12000	7.2	27.6	5.1
23...	0844	.50	--	15400	7.2	27.9	4.7
23...	0845	1.0	--	30900	7.3	28.5	2.7
23...	0846	1.5	--	32400	7.4	28.6	2.4
23...	0847	2.0	--	36400	7.4	28.9	2.4
23...	0848	2.5	--	38300	7.5	28.9	2.3
23...	0849	3.0	--	39200	7.5	28.9	2.2
23...	0850	3.4	--	39400	7.6	28.9	2.2
JUL							
28...	0910	.30	3.25	1900	7.8	32.1	5.1
28...	0911	.50	--	2000	7.7	31.7	4.8
28...	0912	1.0	--	2170	7.6	31.5	4.6
28...	0913	1.5	--	2620	7.6	31.5	4.4
28...	0914	2.0	--	3660	7.5	31.6	4.3
28...	0915	2.5	--	7290	7.3	32.0	4.0
28...	0916	3.0	--	9890	7.3	32.1	3.2
AUG							
24...	0836	.30	3.55	425	6.7	28.0	4.6
24...	0837	.50	--	436	6.8	28.0	4.5
24...	0838	1.0	--	426	6.8	27.9	4.4
24...	0839	1.5	--	454	6.8	27.8	4.6
24...	0840	2.0	--	472	6.8	27.8	4.6
24...	0841	2.5	--	499	6.9	27.8	4.6
24...	0842	3.0	--	3220	6.8	28.3	4.1
24...	0843	3.4	--	7400	6.7	29.0	3.2
SEP							
24...	0912	.30	3.15	2260	7.3	26.2	4.6
24...	0913	.50	--	2360	7.3	26.2	4.6
24...	0914	1.0	--	3000	7.2	26.1	4.6
24...	0915	1.5	--	3400	7.2	26.1	4.6
24...	0916	2.0	--	4140	7.2	26.2	4.5
24...	0917	2.5	--	6940	7.2	26.3	4.4
24...	0918	3.0	--	15600	7.2	26.9	3.8

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
265819082003200 - PEACE RIVER AT RIVER MILE 8.6B NEAR PUNTA GORDA							
OCT							
29...	1056	.30	2.55	11100	8.8	24.7	10.8
29...	1057	.50	--	12000	8.8	24.6	10.5
29...	1058	1.0	--	16200	8.5	24.1	8.5
29...	1059	1.5	--	21700	8.2	24.2	6.8
29...	1100	2.0	--	23200	8.1	24.3	6.1
29...	1101	2.4	--	24500	8.0	24.4	5.7
NOV							
18...	1045	.30	2.05	404	7.3	24.6	5.5
18...	1046	.50	--	426	7.2	24.3	5.5
18...	1047	1.0	--	437	7.2	24.2	5.5
18...	1048	1.5	--	442	7.2	24.1	5.4
18...	1049	1.9	--	551	7.2	24.1	5.4
DEC							
29...	1032	.30	3.55	21300	7.9	21.5	7.1
29...	1033	.50	--	22200	7.9	21.4	7.0
29...	1034	1.0	--	21100	7.9	21.4	6.9
29...	1035	1.5	--	23100	7.9	21.4	6.9
29...	1036	2.0	--	21800	8.0	21.4	7.2
29...	1037	2.5	--	23700	8.0	21.4	7.2
29...	1038	3.0	--	23600	8.0	21.4	7.2
29...	1039	3.4	--	23700	8.0	21.5	7.2
JAN							
26...	1057	.30	2.95	10900	8.0	21.1	8.7
26...	1058	.50	--	11700	8.0	21.0	8.5
26...	1059	1.0	--	13200	7.9	20.8	8.1
26...	1100	1.5	--	16700	7.8	20.6	7.5
26...	1101	2.0	--	23300	7.7	20.4	6.4
26...	1102	2.5	--	24000	7.7	20.4	6.3
26...	1103	2.8	--	23700	7.7	20.4	6.3
FEB							
23...	1020	.30	2.45	19500	7.9	17.0	8.1
23...	1021	.50	--	19500	7.9	17.0	8.0
23...	1022	1.0	--	21400	7.9	16.9	7.8
23...	1023	1.5	--	22100	7.9	16.9	7.9
23...	1024	2.0	--	23400	7.9	16.8	7.8
23...	1025	2.3	--	24500	7.9	16.8	7.7
MAR							
23...	1020	.30	2.55	24500	7.7	21.8	6.6
23...	1021	.50	--	24500	7.7	21.8	6.6
23...	1022	1.0	--	24500	7.7	21.7	6.5
23...	1023	1.5	--	26200	7.7	21.4	6.4
23...	1024	2.0	--	28900	7.7	21.1	6.1
23...	1025	2.4	--	28500	7.7	21.1	6.0
APR							
20...	0913	.30	2.15	28200	7.7	21.4	6.6
20...	0914	.50	--	28200	7.7	21.4	6.6
20...	0915	1.0	--	28600	7.7	21.3	6.5
20...	0916	1.5	--	29100	7.7	21.0	6.5
20...	0917	2.0	--	29300	7.7	21.0	6.5
MAY							
26...	0930	.30	2.55	24500	7.6	28.4	5.2
26...	0931	.50	--	24500	7.6	28.3	5.2
26...	0932	1.0	--	24700	7.6	28.3	5.2
26...	0933	1.5	--	24800	7.6	28.3	5.2
26...	0934	2.0	--	25000	7.7	28.3	5.2
26...	0935	2.4	--	25200	7.7	28.3	5.1
JUN							
23...	0913	.30	3.45	7280	7.2	28.2	4.7
23...	0914	.50	--	8090	7.2	28.1	4.5
23...	0915	1.0	--	10100	7.1	27.8	4.1
23...	0916	1.5	--	19700	7.1	28.0	3.1
23...	0917	2.0	--	25300	7.2	28.3	2.5
23...	0918	2.5	--	33400	7.3	28.7	2.2
23...	0919	3.0	--	34200	7.3	28.8	2.1
23...	0920	3.3	--	35500	7.4	28.8	2.1

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

265819082003200 - PEACE RIVER AT RIVER MILE 8.6B NEAR PUNTA GORDA

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
JUL							
28...	0940	.30	2.95	535	7.6	32.4	4.8
28...	0941	.50	--	534	7.4	32.1	4.5
28...	0942	1.0	--	569	7.4	31.3	4.1
28...	0943	1.5	--	596	7.3	31.2	4.1
28...	0944	2.0	--	586	7.3	31.2	4.0
28...	0945	2.5	--	596	7.3	31.1	4.0
28...	0946	2.8	--	598	7.3	31.1	4.0
AUG							
24...	0859	.30	3.35	344	7.0	28.6	5.4
24...	0900	.50	--	344	7.0	28.5	5.2
24...	0901	1.0	--	346	7.0	28.4	5.0
24...	0902	1.5	--	346	7.0	28.2	4.8
24...	0903	2.0	--	339	7.0	28.2	4.8
24...	0904	2.5	--	349	7.0	28.2	4.8
24...	0905	3.0	--	340	7.0	28.2	4.8
24...	0906	3.2	--	340	7.0	28.2	4.8
SEP							
24...	0945	.30	2.55	731	7.1	27.0	4.8
24...	0946	.50	--	744	7.1	26.9	4.6
24...	0947	1.0	--	743	7.1	26.5	4.4
24...	0948	1.5	--	773	7.1	26.4	4.4
24...	0949	2.0	--	788	7.1	26.3	4.3
24...	0950	2.4	--	776	7.1	26.3	4.3

270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1148	.30	3.45	3280	8.0	25.2	7.9
29...	1149	.50	--	3880	8.1	25.0	8.1
29...	1150	1.0	--	4920	8.2	24.8	8.4
29...	1151	1.5	--	8120	8.2	24.6	7.7
29...	1152	2.0	--	12300	8.3	24.9	7.6
29...	1153	2.5	--	12700	8.3	24.9	7.6
29...	1154	3.0	--	12700	8.3	24.9	7.6
29...	1155	3.3	--	12700	8.3	24.9	7.6
NOV							
18...	1140	.30	3.65	328	7.3	24.6	5.7
18...	1141	.50	--	319	7.3	24.6	5.6
18...	1142	1.0	--	320	7.2	24.4	5.5
18...	1143	1.5	--	318	7.2	24.4	5.5
18...	1144	2.0	--	322	7.2	24.5	5.5
18...	1145	2.5	--	333	7.2	24.5	5.5
18...	1146	3.0	--	325	7.2	24.5	5.4
18...	1147	3.5	--	329	7.2	24.4	5.4
DEC							
29...	1121	.30	5.35	12300	7.9	22.1	7.9
29...	1122	.50	--	12600	7.8	22.0	7.8
29...	1123	1.0	--	12700	7.9	22.1	7.8
29...	1124	1.5	--	12800	7.9	22.1	7.9
29...	1125	2.0	--	12700	7.8	22.1	7.6
29...	1126	2.5	--	12900	7.8	22.0	7.1
29...	1127	3.0	--	13400	7.9	22.1	7.9
29...	1128	3.5	--	13700	7.8	22.0	7.5
29...	1129	4.0	--	13900	7.7	21.9	6.3
29...	1130	4.5	--	14600	7.6	21.8	5.8
29...	1131	5.0	--	14700	7.6	21.8	5.8
JAN							
26...	1208	.30	2.95	1890	7.7	21.4	6.6
26...	1209	.50	--	1860	7.7	21.5	6.6
26...	1210	1.0	--	2560	7.6	21.2	6.4
26...	1211	1.5	--	5100	7.4	21.0	5.6
26...	1212	2.0	--	5590	7.4	21.0	5.5
26...	1213	2.5	--	6260	7.3	21.0	5.2
26...	1214	2.8	--	7230	7.3	21.1	5.1
FEB							
23...	1134	.30	4.45	8710	7.9	18.4	8.8
23...	1135	.50	--	8860	7.9	18.4	8.8
23...	1136	1.0	--	9090	7.9	18.3	8.8
23...	1137	1.5	--	9970	7.9	18.1	8.5
23...	1138	2.0	--	10800	7.8	18.1	8.3
23...	1139	2.5	--	11000	7.8	18.1	8.1
23...	1140	3.0	--	12500	7.7	18.2	7.3
23...	1141	3.5	--	14800	7.6	18.6	6.8
23...	1142	4.0	--	14900	7.6	18.6	6.8
23...	1143	4.3	--	14700	7.6	18.6	6.7
MAR							
23...	1121	.30	2.95	12400	7.6	23.1	6.9
23...	1122	.50	--	13800	7.5	22.6	6.7
23...	1123	1.0	--	14500	7.5	22.4	6.3
23...	1124	1.5	--	15200	7.4	22.3	6.0
23...	1125	2.0	--	15500	7.4	22.2	5.9
23...	1126	2.5	--	15900	7.4	22.2	5.8
23...	1127	2.8	--	16200	7.4	22.2	5.7
APR							
20...	1001	.30	3.85	19300	7.5	22.8	6.3
20...	1002	.50	--	19700	7.5	22.7	6.2
20...	1003	1.0	--	19900	7.5	22.6	6.2
20...	1004	1.5	--	20300	7.5	22.7	5.8
20...	1005	2.0	--	21100	7.5	22.6	5.7
20...	1006	2.5	--	21100	7.5	22.6	5.7
20...	1007	3.0	--	21300	7.5	22.6	5.7
20...	1008	3.5	--	21400	7.5	22.6	5.6
20...	1009	3.7	--	21800	7.5	22.6	5.6

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

270022081591000 - PEACE RIVER SITE PR40 NEAR MARY POINT

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
MAY							
26...	1009	.30	4.05	15000	7.5	29.2	5.8
26...	1010	.50	--	15600	7.5	29.1	5.6
26...	1011	1.0	--	15700	7.5	28.9	5.5
26...	1012	1.5	--	16500	7.5	28.9	5.5
26...	1013	2.0	--	17200	7.5	28.9	5.5
26...	1014	2.5	--	17400	7.5	28.9	5.3
26...	1015	3.0	--	18100	7.5	28.8	5.0
26...	1016	3.5	--	19200	7.5	28.7	4.9
26...	1017	3.9	--	19000	7.5	28.7	4.9
JUN							
23...	0958	.30	4.85	825	6.8	28.2	4.1
23...	0959	.50	--	768	6.8	28.3	4.0
23...	1000	1.0	--	1090	6.8	28.1	4.0
23...	1001	1.5	--	1190	6.8	28.1	3.9
23...	1002	2.0	--	1220	6.9	28.1	3.9
23...	1003	2.5	--	1410	6.8	28.1	3.9
23...	1004	3.0	--	1560	6.8	28.1	3.9
23...	1005	3.5	--	1700	6.9	28.1	3.8
23...	1006	4.0	--	2240	6.8	27.9	3.6
23...	1007	4.5	--	2950	6.8	27.8	3.3
23...	1008	4.7	--	3500	6.8	27.8	3.2
JUL							
28...	1007	.30	5.25	382	7.7	32.6	4.1
28...	1008	.50	--	382	7.5	32.2	3.9
28...	1009	1.0	--	375	7.4	31.0	3.5
28...	1010	1.5	--	376	7.3	30.9	3.5
28...	1011	2.0	--	374	7.3	30.8	3.4
28...	1012	2.5	--	377	7.3	30.7	3.4
28...	1013	3.0	--	360	7.2	30.8	3.4
28...	1014	3.5	--	366	7.2	30.7	3.3
28...	1015	4.0	--	371	7.2	30.7	3.3
28...	1016	4.5	--	362	7.1	30.7	3.3
28...	1017	5.0	--	376	7.1	30.7	3.3
AUG							
24...	0952	.30	5.35	308	7.1	28.4	4.8
24...	0953	.50	--	306	7.0	28.4	4.7
24...	0954	1.0	--	313	7.0	28.3	4.7
24...	0955	1.5	--	305	7.0	28.2	4.7
24...	0956	2.0	--	314	7.0	28.3	4.7
24...	0957	2.5	--	311	7.0	28.3	4.7
24...	0958	3.0	--	310	7.0	28.3	4.7
24...	0959	3.5	--	307	7.0	28.4	4.6
24...	1000	4.0	--	312	6.9	28.3	4.7
24...	1001	4.5	--	306	6.9	28.2	4.6
24...	1002	5.0	--	311	6.9	28.0	4.5
24...	1003	5.2	--	313	6.9	28.0	4.5
SEP							
24...	1030	.30	5.45	320	7.0	27.2	4.8
24...	1031	.50	--	324	7.0	26.8	4.6
24...	1033	1.0	--	321	7.0	25.9	4.3
24...	1034	1.5	--	311	7.0	25.8	4.4
24...	1035	2.0	--	317	7.0	25.8	4.3
24...	1036	2.5	--	315	6.9	25.8	4.3
24...	1037	3.0	--	311	6.9	25.8	4.3
24...	1038	3.5	--	315	6.9	25.7	4.3
24...	1039	4.0	--	316	6.9	25.7	4.3
24...	1040	4.5	--	316	6.9	25.7	4.3
24...	1041	5.0	--	328	6.9	25.7	4.3
24...	1042	5.3	--	338	6.9	25.7	4.2

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
270124081592500 - PEACE RIVER AT RIVER MILE 12.55 NR HARBOUR HTS.							
OCT							
29...	1201	.30	2.45	1440	7.7	25.0	6.3
29...	1202	.50	--	1670	7.6	24.7	6.4
29...	1203	1.0	--	2450	7.6	24.6	6.3
29...	1204	1.5	--	2890	7.6	24.5	6.4
29...	1205	2.0	--	5990	7.8	24.6	6.6
29...	1206	2.3	--	6960	7.8	24.6	6.7
NOV							
18...	1151	.30	2.45	324	7.2	24.3	5.5
18...	1152	.50	--	325	7.2	24.2	5.5
18...	1153	1.0	--	325	7.2	24.0	5.5
18...	1154	1.5	--	324	7.2	24.0	5.4
18...	1155	2.0	--	323	7.2	24.0	5.4
18...	1156	2.3	--	325	7.2	24.0	5.4
DEC							
29...	1145	.30	2.15	7720	7.7	22.2	7.1
29...	1146	.50	--	8150	7.6	22.0	6.9
29...	1147	1.0	--	8680	7.6	22.1	6.9
29...	1148	1.5	--	9060	7.6	22.0	6.6
29...	1149	2.0	--	9880	7.5	21.9	6.2
JAN							
26...	1227	.30	1.95	561	7.4	21.2	6.4
26...	1228	.50	--	564	7.4	21.2	6.4
26...	1229	1.0	--	561	7.5	21.2	6.4
26...	1230	1.5	--	562	7.5	21.0	6.3
26...	1231	1.8	--	544	7.5	20.9	6.1
FEB							
23...	1150	.30	3.75	7430	7.7	18.5	7.5
23...	1151	.50	--	7700	7.7	18.3	7.6
23...	1152	1.0	--	8500	7.6	18.2	7.3
23...	1153	1.5	--	9450	7.6	18.1	7.1
23...	1154	2.0	--	10000	7.6	18.1	6.9
23...	1155	2.5	--	10400	7.5	18.2	6.7
23...	1156	3.0	--	10700	7.5	18.3	6.6
23...	1157	3.5	--	10700	7.5	18.3	6.5
MAR							
23...	1131	.30	3.05	11100	7.6	22.8	7.1
23...	1132	.50	--	11400	7.6	22.5	6.9
23...	1133	1.0	--	11400	7.6	22.5	6.9
23...	1134	1.5	--	12400	7.5	22.2	6.3
23...	1135	2.0	--	13100	7.4	22.3	5.7
23...	1136	2.5	--	13400	7.4	22.3	5.7
23...	1137	2.9	--	13600	7.4	22.4	5.7
APR							
20...	1014	.30	1.95	15200	7.6	23.3	7.4
20...	1015	.50	--	15800	7.6	23.1	6.7
20...	1016	1.0	--	17500	7.5	22.7	5.9
20...	1017	1.5	--	17900	7.4	22.7	5.6
20...	1018	1.8	--	18000	7.4	22.7	5.6
MAY							
26...	1020	.30	3.95	10500	7.5	29.0	5.9
26...	1021	.50	--	10900	7.5	29.0	5.8
26...	1022	1.0	--	11700	7.5	28.9	5.7
26...	1023	1.5	--	12400	7.4	28.7	5.2
26...	1024	2.0	--	13700	7.4	28.6	4.8
26...	1025	2.5	--	13800	7.4	28.6	4.7
26...	1026	3.0	--	13800	7.4	28.6	4.7
26...	1027	3.5	--	13900	7.4	28.6	4.6
26...	1028	3.8	--	14000	7.4	28.6	4.6
JUN							
23...	1010	.30	4.15	484	7.1	27.9	4.3
23...	1011	.50	--	493	7.0	27.9	4.2
23...	1012	1.0	--	483	7.0	27.7	4.2
23...	1013	1.5	--	489	7.0	27.6	4.1
23...	1014	2.0	--	482	7.0	27.6	4.1
23...	1015	2.5	--	493	6.9	27.5	4.1
23...	1016	3.0	--	486	6.9	27.5	4.1
23...	1017	3.5	--	488	6.9	27.5	4.1
23...	1018	4.0	--	489	6.9	27.5	4.0

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

270124081592500 - PEACE RIVER AT RIVER MILE 12.55 NR HARBOUR HTS.

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
JUL							
28...	1018	.30	3.55	351	7.5	32.0	3.7
28...	1019	.50	--	352	7.4	31.3	3.5
28...	1020	1.0	--	355	7.4	30.7	3.4
28...	1021	1.5	--	356	7.3	30.7	3.4
28...	1022	2.0	--	358	7.2	30.5	3.3
28...	1023	2.5	--	355	7.2	30.5	3.3
28...	1024	3.0	--	359	7.2	30.5	3.3
28...	1025	3.4	--	354	7.1	30.5	3.3
AUG							
24...	1004	.30	2.45	310	7.0	27.9	5.1
24...	1005	.50	--	301	7.0	27.8	4.8
24...	1006	1.0	--	299	7.0	27.7	4.7
24...	1007	1.5	--	305	7.0	27.7	4.6
24...	1008	2.0	--	297	7.0	27.6	4.6
24...	1009	2.3	--	312	7.0	27.6	4.6
SEP							
24...	1043	.30	4.35	313	7.0	26.9	4.6
24...	1044	.50	--	306	7.0	26.4	4.5
24...	1045	1.0	--	306	7.0	25.9	4.4
24...	1046	1.5	--	308	7.0	25.9	4.4
24...	1047	2.0	--	308	7.0	25.8	4.4
24...	1048	2.5	--	307	6.9	25.8	4.4
24...	1049	3.0	--	307	6.9	25.8	4.4
24...	1050	3.5	--	307	6.9	25.8	4.4
24...	1051	4.0	--	307	6.9	25.8	4.4

270235081592400 - PEACE R. AT RIVER MILE 13.95 NEAR PT. CHARLOTTE

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1214	.30	3.35	278	7.3	24.3	5.6
29...	1215	.50	--	282	7.3	24.3	5.4
29...	1216	1.0	--	281	7.3	24.2	5.4
29...	1217	1.5	--	281	7.3	24.2	5.3
29...	1218	2.0	--	278	7.3	24.2	5.3
29...	1219	2.5	--	282	7.3	24.2	5.3
29...	1220	3.0	--	283	7.3	24.2	5.3
NOV							
18...	1200	.30	1.65	321	7.2	24.5	5.7
18...	1201	.50	--	319	7.2	24.5	5.6
18...	1202	1.0	--	327	7.2	23.9	5.6
18...	1203	1.5	--	328	7.2	23.9	5.6
DEC							
29...	1153	.30	2.25	5000	7.6	22.0	6.4
29...	1154	.50	--	5040	7.5	22.0	6.3
29...	1155	1.0	--	5030	7.5	22.0	6.3
29...	1156	1.5	--	5040	7.5	22.0	6.3
29...	1157	2.0	--	5000	7.5	22.0	6.3
JAN							
26...	1245	.30	2.65	455	7.5	20.9	6.5
26...	1246	.50	--	455	7.5	20.9	6.5
26...	1247	1.0	--	452	7.5	20.9	6.5
26...	1248	1.5	--	456	7.5	20.8	6.4
26...	1249	2.0	--	453	7.5	20.4	6.3
26...	1250	2.5	--	448	7.5	20.4	6.3
FEB							
23...	1201	.30	1.75	2880	7.6	18.3	6.6
23...	1202	.50	--	2930	7.6	18.2	6.5
23...	1203	1.0	--	3000	7.6	18.1	6.5
23...	1204	1.5	--	3010	7.6	18.1	6.5
MAR							
23...	1142	.30	2.35	5270	7.5	22.8	6.4
23...	1143	.50	--	5280	7.5	22.8	6.4
23...	1144	1.0	--	5640	7.5	22.8	6.4
23...	1145	1.5	--	6610	7.4	22.6	6.2
23...	1146	2.0	--	6820	7.4	22.3	6.0
23...	1147	2.2	--	6860	7.4	22.2	5.9
APR							
20...	1024	.30	4.15	10900	7.5	23.6	6.7
20...	1025	.50	--	11000	7.5	23.5	6.6
20...	1026	1.0	--	11300	7.4	23.3	6.1
20...	1027	1.5	--	12000	7.4	23.0	5.8
20...	1028	2.0	--	12200	7.4	22.8	5.5
20...	1029	2.5	--	12500	7.4	22.8	5.4
20...	1030	3.0	--	12600	7.4	22.8	5.4
20...	1031	3.5	--	12700	7.4	22.8	5.4
20...	1032	4.0	--	12800	7.3	22.8	5.3
MAY							
26...	1032	.30	2.45	6240	7.5	28.7	5.1
26...	1033	.50	--	6210	7.4	28.7	5.1
26...	1034	1.0	--	6230	7.4	28.6	5.0
26...	1035	1.5	--	6300	7.3	28.5	4.9
26...	1036	2.0	--	6410	7.3	28.5	4.9
26...	1037	2.3	--	6340	7.3	28.5	4.9
JUN							
23...	1020	.30	2.35	482	7.1	28.0	4.4
23...	1021	.50	--	483	7.1	28.1	4.3
23...	1022	1.0	--	482	7.0	27.9	4.2
23...	1023	1.5	--	482	7.0	27.7	4.1
23...	1024	2.0	--	483	7.0	27.7	4.1
JUL							
28...	1026	.30	2.45	318	7.6	31.5	3.7
28...	1027	.50	--	318	7.4	31.1	3.8
28...	1028	1.0	--	321	7.4	30.7	3.7
28...	1029	1.5	--	319	7.3	30.3	3.7
28...	1030	2.0	--	320	7.3	30.3	3.6
28...	1031	2.3	--	327	7.2	30.3	3.6

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
270235081592400 - PEACE R. AT RIVER MILE 13.95 NEAR PT. CHARLOTTE							
AUG							
24...	1013	.30	2.55	297	7.1	27.9	5.3
24...	1014	.50	--	301	7.0	27.9	5.1
24...	1015	1.0	--	303	7.0	27.9	5.0
24...	1016	1.5	--	297	7.0	27.9	5.0
24...	1017	2.0	--	299	7.0	27.8	4.9
24...	1018	2.4	--	306	7.0	27.8	4.9
SEP							
24...	1052	.30	2.35	288	7.0	26.5	5.1
24...	1053	.50	--	288	7.0	26.5	5.0
24...	1054	1.0	--	289	7.0	26.0	4.9
24...	1055	1.5	--	289	7.0	25.9	4.9
24...	1056	2.0	--	289	7.0	25.8	4.8

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS-SOLVED (MG/L) (00300)
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN									
OCT									
28...	1452	.30	3.75	274	7.3	24.6	2400	1.0	5.8
28...	1453	.50	--	274	7.3	24.6	--	--	5.8
28...	1454	1.0	--	274	7.3	24.5	--	--	5.7
28...	1455	1.5	--	276	7.3	24.5	--	--	5.6
28...	1456	2.0	--	271	7.2	24.5	--	--	5.5
28...	1457	2.5	--	279	7.2	24.4	--	--	5.4
28...	1458	3.0	--	268	7.2	24.4	--	--	5.4
28...	1459	3.5	--	273	7.2	24.4	--	--	5.4
29...	1222	.30	3.55	274	7.5	24.6	--	--	5.2
29...	1223	.50	--	276	7.4	24.6	--	--	5.2
29...	1224	1.0	--	277	7.4	24.3	--	--	5.2
29...	1225	1.5	--	269	7.4	24.3	--	--	5.2
29...	1226	2.0	--	275	7.4	24.2	--	--	5.2
29...	1227	2.5	--	274	7.4	24.2	--	--	5.2
29...	1228	3.0	--	270	7.4	24.2	--	--	5.1
29...	1229	3.4	--	271	7.3	24.2	--	--	5.1
NOV									
17...	1401	.30	4.35	308	7.3	24.4	2650	1.1	6.0
17...	1402	.50	--	314	7.2	24.4	--	--	5.8
17...	1403	1.0	--	309	7.2	24.2	--	--	5.8
17...	1404	1.5	--	307	7.2	24.2	--	--	5.7
17...	1405	2.0	--	312	7.2	24.2	--	--	5.7
17...	1406	2.5	--	312	7.2	24.2	--	--	5.6
17...	1407	3.0	--	309	7.2	24.1	--	--	5.6
17...	1408	3.5	--	310	7.2	24.1	--	--	5.5
17...	1409	4.0	--	312	7.2	24.0	--	--	5.5
18...	1210	.30	3.55	324	7.3	24.4	--	--	5.8
18...	1211	.50	--	323	7.3	24.3	--	--	5.7
18...	1212	1.0	--	327	7.2	24.1	--	--	5.6
18...	1213	1.5	--	323	7.2	24.0	--	--	5.6
18...	1214	2.0	--	322	7.2	24.0	--	--	5.6
18...	1215	2.5	--	321	7.2	23.9	--	--	5.6
18...	1216	3.0	--	322	7.2	23.9	--	--	5.6
18...	1217	3.4	--	318	7.2	23.9	--	--	5.5
DEC									
28...	1501	.30	3.25	1190	7.7	22.0	828	2.0	7.1
28...	1502	.50	--	1220	7.7	22.0	--	--	7.1
28...	1503	1.0	--	1230	7.7	22.0	--	--	7.1
28...	1504	1.5	--	1220	7.7	22.0	--	--	7.1
28...	1505	2.0	--	1200	7.7	21.9	--	--	7.0
28...	1506	2.5	--	1800	7.6	21.9	--	--	6.9
28...	1507	3.0	--	1940	7.6	21.9	--	--	6.8
29...	1211	.30	3.75	2320	7.6	21.9	--	--	6.4
29...	1212	.50	--	2420	7.6	21.9	--	--	6.4
29...	1213	1.0	--	2460	7.6	21.9	--	--	6.3
29...	1214	1.5	--	2680	7.5	21.8	--	--	6.3
29...	1215	2.0	--	2630	7.5	21.8	--	--	6.3
29...	1216	2.5	--	2780	7.5	21.8	--	--	6.2
29...	1217	3.0	--	2640	7.5	21.7	--	--	6.2
29...	1218	3.5	--	2690	7.5	21.7	--	--	6.2
JAN									
25...	1510	.30	4.45	451	7.2	22.0	2300	2.2	7.5
25...	1511	.50	--	444	7.3	22.0	--	--	7.3
25...	1512	1.0	--	448	7.4	21.9	--	--	7.1
25...	1513	1.5	--	446	7.4	21.9	--	--	7.1
25...	1514	2.0	--	450	7.5	21.8	--	--	7.0
25...	1515	2.5	--	447	7.5	21.8	--	--	7.0
25...	1516	3.0	--	452	7.5	21.8	--	--	7.0
25...	1517	3.5	--	453	7.5	21.8	--	--	7.0
25...	1518	4.0	--	448	7.5	21.8	--	--	7.0
26...	1258	.30	3.55	423	7.5	21.6	--	--	6.7
26...	1259	.50	--	426	7.5	21.4	--	--	6.7
26...	1300	1.0	--	426	7.5	21.2	--	--	6.5
26...	1301	1.5	--	422	7.5	20.4	--	--	6.4
26...	1302	2.0	--	424	7.4	20.4	--	--	6.4
26...	1303	2.5	--	437	7.4	20.2	--	--	6.3
26...	1304	3.0	--	432	7.4	20.2	--	--	6.3
26...	1305	3.4	--	434	7.4	20.2	--	--	6.3

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS-SOLVED (MG/L) (00300)
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN									
FEB									
22...	1536	.30	4.15	407	7.3	19.5	2280	1.7	7.1
22...	1537	.50	--	411	7.4	19.5	--	--	7.1
22...	1538	1.0	--	414	7.5	19.5	--	--	7.1
22...	1539	1.5	--	412	7.5	19.3	--	--	7.0
22...	1540	2.0	--	415	7.5	19.1	--	--	6.9
22...	1541	2.5	--	412	7.5	19.1	--	--	6.9
22...	1542	3.0	--	410	7.5	19.1	--	--	6.8
22...	1543	3.5	--	410	7.5	19.1	--	--	6.9
22...	1544	4.0	--	408	7.5	19.1	--	--	6.8
23...	1210	.30	4.05	1140	7.7	18.7	--	--	7.0
23...	1211	.50	--	1140	7.6	18.5	--	--	6.9
23...	1212	1.0	--	1390	7.6	18.0	--	--	6.8
23...	1213	1.5	--	1450	7.6	17.8	--	--	6.8
23...	1214	2.0	--	1450	7.6	17.8	--	--	6.7
23...	1215	2.5	--	1460	7.6	17.8	--	--	6.7
23...	1216	3.0	--	1450	7.6	17.8	--	--	6.7
23...	1217	3.5	--	1480	7.6	17.8	--	--	6.7
23...	1218	3.9	--	1490	7.6	17.8	--	--	6.7
MAR									
22...	1455	.30	4.85	1810	7.8	23.8	2450	2.8	6.6
22...	1456	.50	--	1910	7.8	23.6	--	--	6.4
22...	1457	1.0	--	2080	7.7	23.5	--	--	6.2
22...	1458	1.5	--	2240	7.6	23.1	--	--	6.1
22...	1459	2.0	--	2230	7.6	22.9	--	--	6.1
22...	1500	2.5	--	2270	7.6	22.9	--	--	6.0
22...	1501	3.0	--	2280	7.6	22.8	--	--	6.0
22...	1502	3.5	--	2320	7.6	22.8	--	--	5.9
22...	1503	4.0	--	2390	7.6	22.7	--	--	5.9
22...	1504	4.5	--	2420	7.5	22.7	--	--	5.9
23...	1155	.30	4.35	3390	7.5	22.6	--	--	6.5
23...	1156	.50	--	3390	7.5	22.5	--	--	6.5
23...	1157	1.0	--	3440	7.5	22.3	--	--	6.4
23...	1158	1.5	--	3610	7.4	22.0	--	--	6.1
23...	1159	2.0	--	4150	7.4	21.9	--	--	6.0
23...	1200	2.5	--	4490	7.4	22.0	--	--	6.0
23...	1201	3.0	--	5020	7.4	21.9	--	--	5.8
23...	1202	3.5	--	5080	7.4	22.0	--	--	5.8
23...	1203	4.0	--	5310	7.4	22.0	--	--	5.8
23...	1204	4.2	--	5240	7.4	22.0	--	--	5.8
APR									
19...	1326	.30	4.45	6990	7.5	24.6	2570	2.9	6.5
19...	1327	.50	--	7080	7.5	24.5	--	--	6.4
19...	1328	1.0	--	7590	7.5	24.1	--	--	6.3
19...	1329	1.5	--	8310	7.4	23.9	--	--	6.0
19...	1330	2.0	--	8880	7.4	23.7	--	--	5.8
19...	1331	2.5	--	9150	7.3	23.6	--	--	5.6
19...	1332	3.0	--	10700	7.3	23.3	--	--	5.1
19...	1333	3.5	--	11300	7.3	23.1	--	--	4.9
19...	1334	4.0	--	11300	7.2	23.2	--	--	4.8
19...	1335	4.3	--	11200	7.2	23.2	--	--	4.8
20...	1033	.30	4.15	7150	7.5	23.8	--	--	6.4
20...	1034	.50	--	8220	7.5	23.5	--	--	6.4
20...	1035	1.0	--	9630	7.4	22.8	--	--	5.8
20...	1036	1.5	--	10100	7.4	22.8	--	--	5.8
20...	1037	2.0	--	10500	7.4	22.8	--	--	5.8
20...	1038	2.5	--	10900	7.4	22.8	--	--	5.6
20...	1039	3.0	--	11200	7.3	22.8	--	--	5.3
20...	1040	3.5	--	11400	7.3	22.7	--	--	5.3
20...	1041	4.0	--	11500	7.3	22.8	--	--	5.3

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS-SOLVED (MG/L) (00300)
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN									
MAY									
25...	1349	.30	4.45	8540	7.8	29.4	3000	3.2	7.0
25...	1350	.50	--	8740	7.8	29.5	--	--	7.2
25...	1351	1.0	--	9030	7.7	29.5	--	--	7.7
25...	1352	1.5	--	9800	7.7	29.1	--	--	6.8
25...	1353	2.0	--	10100	7.6	28.9	--	--	6.0
25...	1354	2.5	--	10900	7.6	28.8	--	--	5.6
25...	1355	3.0	--	11100	7.5	28.8	--	--	5.7
25...	1356	3.5	--	11200	7.5	28.8	--	--	5.6
25...	1357	4.0	--	11300	7.5	28.8	--	--	5.6
25...	1358	4.3	--	11200	7.4	28.8	--	--	5.6
26...	1050	.30	4.55	2800	7.2	28.4	--	--	4.8
26...	1051	.50	--	2880	7.2	28.4	--	--	4.8
26...	1052	1.0	--	2890	7.2	28.4	--	--	4.8
26...	1053	1.5	--	2990	7.2	28.4	--	--	4.8
26...	1054	2.0	--	3010	7.2	28.4	--	--	4.8
26...	1055	2.5	--	3050	7.2	28.4	--	--	4.8
26...	1056	3.0	--	3140	7.2	28.5	--	--	4.9
26...	1057	3.5	--	3210	7.2	28.5	--	--	4.9
26...	1058	4.0	--	3180	7.2	28.5	--	--	4.8
26...	1059	4.4	--	3200	7.2	28.5	--	--	4.8
JUN									
22...	1334	.30	3.65	445	6.8	28.4	2240	1.2	3.3
22...	1335	.50	--	446	6.8	27.5	--	--	3.2
22...	1336	1.0	--	443	6.9	27.2	--	--	3.1
22...	1337	1.5	--	444	6.9	27.2	--	--	3.1
22...	1338	2.0	--	439	6.9	27.1	--	--	3.1
22...	1340	2.5	--	445	6.9	27.2	--	--	3.1
22...	1341	3.0	--	448	6.9	27.2	--	--	3.1
22...	1342	3.5	--	445	6.9	27.2	--	--	3.1
23...	1025	.30	4.25	461	7.0	27.9	--	--	4.4
23...	1026	.50	--	464	7.0	27.7	--	--	4.3
23...	1027	1.0	--	459	7.0	27.6	--	--	4.3
23...	1028	1.5	--	457	7.0	27.6	--	--	4.2
23...	1029	2.0	--	457	7.0	27.5	--	--	4.2
23...	1030	2.5	--	463	6.9	27.5	--	--	4.2
23...	1031	3.0	--	471	6.9	27.5	--	--	4.2
23...	1032	3.5	--	459	6.9	27.5	--	--	4.2
23...	1033	4.0	--	467	6.9	27.5	--	--	4.1
JUL									
27...	1308	.30	4.65	339	7.7	31.3	3020	.80	3.9
27...	1309	.50	--	346	7.6	31.2	--	--	3.9
27...	1310	1.0	--	342	7.4	30.9	--	--	3.8
27...	1311	1.5	--	343	7.4	30.8	--	--	3.7
27...	1312	2.0	--	354	7.3	30.8	--	--	3.7
27...	1313	2.5	--	352	7.3	30.8	--	--	3.7
27...	1314	3.0	--	340	7.3	30.8	--	--	3.7
27...	1315	3.5	--	340	7.3	30.8	--	--	3.6
27...	1316	4.0	--	331	7.2	30.8	--	--	3.6
27...	1317	4.5	--	332	7.2	30.8	--	--	3.6
28...	1032	.30	4.95	314	7.5	31.3	--	--	4.2
28...	1033	.50	--	317	7.4	30.9	--	--	4.1
28...	1034	1.0	--	317	7.4	30.7	--	--	4.1
28...	1035	1.5	--	320	7.3	30.3	--	--	3.9
28...	1036	2.0	--	312	7.3	30.3	--	--	3.9
28...	1037	2.5	--	321	7.2	30.2	--	--	3.9
28...	1038	3.0	--	314	7.2	30.2	--	--	3.8
28...	1039	3.5	--	322	7.2	30.2	--	--	3.8
28...	1040	4.0	--	321	7.1	30.2	--	--	3.7
28...	1041	4.5	--	319	7.1	30.1	--	--	3.7

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	OXYGEN, DIS-SOLVED (MG/L) (00300)
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN									
AUG									
23...	1340	.30	4.75	289	7.4	28.9	1470	.90	5.2
23...	1341	.50	--	286	7.3	28.9	--	--	5.1
23...	1342	1.0	--	292	7.3	28.8	--	--	5.0
23...	1343	1.5	--	283	7.2	28.7	--	--	4.9
23...	1344	2.0	--	290	7.2	28.3	--	--	4.8
23...	1345	2.5	--	288	7.2	28.0	--	--	4.8
23...	1346	3.0	--	295	7.1	27.9	--	--	4.8
23...	1347	3.5	--	282	7.1	27.9	--	--	4.8
23...	1348	4.0	--	281	7.1	27.9	--	--	4.8
23...	1349	4.5	--	289	7.0	27.9	--	--	4.7
24...	1021	.30	3.95	296	7.1	27.7	--	--	5.1
24...	1022	.50	--	296	7.1	27.7	--	--	5.2
24...	1023	1.0	--	301	7.0	27.6	--	--	4.9
24...	1024	1.5	--	300	7.0	27.6	--	--	4.9
24...	1025	2.0	--	294	7.0	27.6	--	--	4.9
24...	1026	2.5	--	296	7.0	27.6	--	--	4.8
24...	1027	3.0	--	298	7.0	27.5	--	--	4.8
24...	1028	3.5	--	307	7.0	27.5	--	--	4.8
24...	1029	3.8	--	306	7.0	27.5	--	--	4.8
SEP									
23...	1321	.30	4.35	314	7.2	26.5	1770	1.0	4.9
23...	1322	.50	--	314	7.1	26.5	--	--	4.9
23...	1323	1.0	--	315	7.1	26.5	--	--	4.8
23...	1324	1.5	--	315	7.1	26.4	--	--	4.8
23...	1325	2.0	--	314	7.1	26.4	--	--	4.8
23...	1326	2.5	--	313	7.1	26.4	--	--	4.8
23...	1327	3.0	--	314	7.0	26.4	--	--	4.8
23...	1328	3.5	--	314	7.0	26.4	--	--	4.8
23...	1329	4.0	--	313	7.0	26.3	--	--	4.7
24...	1057	.30	5.05	286	7.0	26.5	--	--	5.2
24...	1058	.50	--	288	7.0	26.5	--	--	5.2
24...	1059	1.0	--	284	7.0	26.0	--	--	5.1
24...	1100	1.5	--	288	7.0	25.9	--	--	5.0
24...	1101	2.0	--	286	7.0	25.6	--	--	4.8
24...	1102	2.5	--	285	7.0	25.6	--	--	4.7
24...	1103	3.0	--	294	7.0	25.6	--	--	4.7
24...	1104	3.5	--	284	7.0	25.6	--	--	4.7
24...	1105	4.0	--	288	6.9	25.6	--	--	4.7
24...	1106	4.5	--	290	6.9	25.5	--	--	4.6
24...	1107	4.9	--	282	6.9	25.5	--	--	4.6

270337081595800 - PEACE R. AT RIVER MILE 15.45 NEAR PT. CHARLOTTE

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1231	.30	1.65	275	7.5	24.2	5.5
29...	1232	.50	--	276	7.4	24.1	5.5
29...	1233	1.0	--	278	7.4	24.0	5.5
29...	1234	1.5	--	276	7.4	24.0	5.5
NOV							
18...	1220	.30	1.15	322	7.3	24.5	6.0
18...	1221	.50	--	322	7.2	24.5	6.0
18...	1222	1.0	--	322	7.2	24.5	6.0
DEC							
29...	1223	.30	1.65	1060	7.6	21.8	6.3
29...	1224	.50	--	1080	7.6	21.7	6.3
29...	1225	1.0	--	1150	7.6	21.7	6.3
29...	1226	1.5	--	1160	7.6	21.7	6.3
JAN							
26...	1312	.30	1.25	414	7.5	21.4	6.6
26...	1313	.50	--	417	7.5	21.1	6.6
26...	1314	1.0	--	409	7.4	20.4	6.6
FEB							
23...	1225	.30	1.15	573	7.5	17.9	7.2
23...	1226	.50	--	575	7.6	18.0	7.1
23...	1227	1.0	--	570	7.6	17.9	7.1
MAR							
23...	1214	.30	1.15	1730	7.6	23.0	6.7
23...	1215	.50	--	1730	7.6	23.0	6.6
23...	1216	1.0	--	1710	7.6	22.6	6.4
APR							
20...	1042	.30	1.85	5600	7.5	24.0	6.3
20...	1043	.50	--	6000	7.5	23.7	6.3
20...	1044	1.0	--	6110	7.5	23.6	6.2
20...	1045	1.5	--	6460	7.4	23.4	6.2
20...	1046	1.7	--	6670	7.4	23.5	6.3
MAY							
26...	1100	.30	1.55	1410	7.6	28.1	5.0
26...	1101	.50	--	1410	7.5	28.1	4.9
26...	1102	1.0	--	1420	7.5	28.1	4.9
26...	1103	1.4	--	1420	7.4	28.1	4.9
JUN							
23...	1034	.30	1.65	452	7.1	28.2	4.6
23...	1035	.50	--	456	7.1	28.1	4.5
23...	1036	1.0	--	454	7.0	27.9	4.4
23...	1037	1.5	--	456	7.0	27.6	4.3
JUL							
28...	1042	.30	4.65	313	7.7	31.0	4.3
28...	1043	.50	--	309	7.5	30.8	4.0
28...	1044	1.0	--	306	7.4	30.4	3.9
28...	1045	1.5	--	317	7.4	30.4	3.9
28...	1046	2.0	--	321	7.3	30.4	3.9
28...	1047	2.5	--	306	7.3	30.4	3.9
28...	1048	3.0	--	314	7.2	30.4	3.8
28...	1049	3.5	--	318	7.2	30.3	3.6
28...	1050	4.0	--	310	7.2	30.2	3.5
28...	1051	4.5	--	332	7.1	30.2	3.5
AUG							
24...	1030	.30	3.15	303	7.0	28.2	5.1
24...	1031	.50	--	294	7.0	28.3	5.1
24...	1032	1.0	--	291	7.0	28.1	5.0
24...	1033	1.5	--	304	7.0	28.0	4.9
24...	1034	2.0	--	292	7.0	27.8	4.9
24...	1035	2.5	--	299	7.0	27.7	5.0
24...	1036	3.0	--	291	7.0	27.6	5.1
SEP							
24...	1108	.30	1.65	281	7.1	25.9	5.5
24...	1109	.50	--	279	7.1	25.9	5.4
24...	1110	1.0	--	282	7.1	25.8	5.3
24...	1111	1.5	--	283	7.0	25.7	5.3

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
270418082001600 - PEACE RIVER AT RIVER MILE 16.29 NEAR FT. OGDEN							
OCT							
29...	1240	.30	1.45	280	7.3	24.2	5.7
29...	1241	.50	--	277	7.3	24.1	5.7
29...	1242	1.0	--	277	7.3	24.1	5.7
29...	1243	1.3	--	279	7.3	24.1	5.7
NOV							
18...	1228	.30	.95	322	7.3	24.3	6.3
18...	1229	.50	--	331	7.3	24.2	6.2
18...	1230	.80	--	320	7.3	24.1	6.2
DEC							
29...	1232	.30	1.25	700	7.7	21.7	6.4
29...	1233	.50	--	716	7.6	21.7	6.3
29...	1234	1.0	--	705	7.6	21.7	6.3
JAN							
26...	1320	.30	1.35	415	7.5	20.5	6.8
26...	1321	.50	--	407	7.5	20.5	6.8
26...	1322	1.0	--	413	7.5	20.2	6.7
26...	1323	1.2	--	411	7.4	20.2	6.7
FEB							
23...	1313	.30	1.55	432	7.7	19.2	7.4
23...	1314	.50	--	435	7.7	18.3	7.1
23...	1315	1.0	--	435	7.6	18.0	7.2
23...	1316	1.4	--	434	7.6	18.0	7.1
MAR							
23...	1225	.30	1.35	1040	7.2	23.2	6.8
23...	1226	.50	--	1040	7.3	23.2	6.7
23...	1227	1.0	--	1030	7.4	23.1	6.9
23...	1228	1.2	--	1010	7.5	22.9	7.0
APR							
20...	1105	.30	1.25	4360	7.0	23.7	6.1
20...	1106	.50	--	4430	7.2	23.5	6.1
20...	1107	1.0	--	4500	7.2	23.4	6.2
MAY							
26...	1105	.30	1.25	842	7.3	28.2	4.6
26...	1106	.50	--	838	7.3	28.2	4.6
26...	1107	1.0	--	839	7.3	28.2	4.6
JUN							
23...	1040	.30	1.65	432	7.0	30.2	4.5
23...	1041	.50	--	430	7.1	27.4	4.7
23...	1042	1.0	--	448	7.0	27.1	4.7
23...	1043	1.5	--	447	7.0	27.0	4.6
JUL							
28...	1052	.30	1.45	299	7.7	32.6	4.7
28...	1053	.50	--	315	7.6	31.7	4.6
28...	1054	1.0	--	305	7.5	30.9	4.6
28...	1055	1.3	--	310	7.5	30.8	4.5
AUG							
24...	1039	.30	1.65	285	7.1	27.7	5.5
24...	1040	.50	--	289	7.1	27.5	5.4
24...	1041	1.0	--	288	7.1	27.3	5.4
24...	1042	1.5	--	285	7.0	27.2	5.3
SEP							
24...	1113	.30	1.35	275	7.1	25.9	5.5
24...	1114	.50	--	277	7.1	25.7	5.5
24...	1115	1.0	--	277	7.1	25.7	5.4

270451081595100 - PEACE R. AT RIVER MILE 18.25 NEAR FT. OGDEN FL

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
OCT							
29...	1301	.30	3.65	280	7.3	24.1	6.0
29...	1302	.50	--	281	7.3	24.1	6.0
29...	1303	1.0	--	280	7.3	24.1	6.0
29...	1304	1.5	--	278	7.3	24.1	6.0
29...	1305	2.0	--	283	7.3	24.1	6.0
29...	1306	2.5	--	278	7.3	24.1	6.0
29...	1307	3.0	--	282	7.3	24.1	6.0
29...	1308	3.5	--	276	7.3	24.1	6.0
NOV							
18...	1310	.30	2.85	322	7.4	24.1	6.5
18...	1311	.50	--	322	7.3	24.1	6.4
18...	1312	1.0	--	321	7.3	24.0	6.4
18...	1313	1.5	--	330	7.3	24.0	6.3
18...	1314	2.0	--	330	7.3	23.9	6.3
18...	1315	2.5	--	323	7.3	23.8	6.3
DEC							
29...	1253	.30	4.25	500	7.9	21.6	7.5
29...	1254	.50	--	504	7.9	21.6	7.5
29...	1255	1.0	--	494	7.8	21.6	7.4
29...	1256	1.5	--	496	7.8	21.6	7.4
29...	1257	2.0	--	496	7.8	21.5	7.3
29...	1258	2.5	--	504	7.8	21.5	7.3
29...	1259	3.0	--	498	7.8	21.5	7.3
29...	1300	3.5	--	504	7.8	21.5	7.3
29...	1301	4.0	--	501	7.8	21.5	7.3
JAN							
26...	1342	.30	3.65	385	7.4	20.2	6.9
26...	1343	.50	--	381	7.4	20.2	6.9
26...	1344	1.0	--	394	7.4	20.1	6.9
26...	1345	1.5	--	383	7.4	20.0	6.9
26...	1346	2.0	--	390	7.4	20.1	6.8
26...	1347	2.5	--	384	7.4	20.1	6.9
26...	1348	3.0	--	387	7.4	20.1	6.8
26...	1349	3.5	--	392	7.4	20.1	6.8
FEB							
23...	1337	.30	3.75	419	7.7	18.6	7.6
23...	1338	.50	--	418	7.7	18.3	7.5
23...	1339	1.0	--	420	7.7	18.1	7.4
23...	1340	1.5	--	421	7.7	17.9	7.5
23...	1341	2.0	--	422	7.7	17.8	7.4
23...	1342	2.5	--	418	7.7	17.7	7.4
23...	1343	3.0	--	420	7.7	17.7	7.4
23...	1344	3.5	--	421	7.7	17.7	7.4
MAR							
23...	1250	.30	3.45	574	7.7	23.7	7.5
23...	1251	.50	--	573	7.7	23.4	7.4
23...	1252	1.0	--	572	7.7	23.0	7.3
23...	1253	1.5	--	574	7.7	22.5	7.1
23...	1254	2.0	--	574	7.7	22.1	6.8
23...	1255	2.5	--	573	7.6	22.1	6.8
23...	1256	3.0	--	572	7.6	22.1	6.8
23...	1257	3.3	--	576	7.6	22.1	6.8
APR							
20...	1132	.30	3.45	1520	7.7	24.3	6.8
20...	1133	.50	--	1540	7.7	24.0	6.8
20...	1134	1.0	--	1570	7.7	23.8	6.6
20...	1135	1.5	--	1580	7.7	23.5	6.5
20...	1136	2.0	--	1650	7.6	23.2	6.2
20...	1137	2.5	--	1650	7.6	23.3	6.2
20...	1138	3.0	--	1670	7.6	23.2	6.2
20...	1139	3.3	--	1670	7.6	23.2	6.1

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
270451081595100 - PEACE R. AT RIVER MILE 18.25 NEAR FT. OGDEN FL							
MAY							
26...	1127	.30	4.25	777	7.3	28.3	4.5
26...	1128	.50	--	778	7.3	28.3	4.4
26...	1129	1.0	--	774	7.3	28.3	4.4
26...	1130	1.5	--	774	7.2	28.2	4.4
26...	1131	2.0	--	773	7.2	28.2	4.3
26...	1132	2.5	--	781	7.2	28.2	4.3
26...	1133	3.0	--	773	7.2	28.2	4.3
26...	1134	3.5	--	778	7.2	28.2	4.3
26...	1135	4.0	--	783	7.2	28.2	4.3
JUN							
23...	1110	.30	3.35	428	7.2	28.5	5.3
23...	1111	.50	--	428	7.2	28.4	5.2
23...	1112	1.0	--	430	7.1	27.4	5.2
23...	1113	1.5	--	430	7.1	27.3	5.1
23...	1114	2.0	--	431	7.1	27.0	5.1
23...	1115	2.5	--	431	7.1	26.9	5.0
23...	1116	3.0	--	431	7.0	26.9	5.0
23...	1117	3.2	--	430	7.0	26.8	5.0
JUL							
28...	1120	.30	4.05	326	7.8	31.2	4.9
28...	1121	.50	--	324	7.7	30.6	4.9
28...	1122	1.0	--	331	7.7	30.4	4.9
28...	1123	1.5	--	306	7.6	30.4	4.9
28...	1124	2.0	--	317	7.6	30.4	4.8
28...	1125	2.5	--	323	7.5	30.3	4.9
28...	1126	3.0	--	331	7.5	30.3	4.8
28...	1127	3.5	--	316	7.4	30.3	4.8
28...	1128	3.9	--	320	7.4	30.3	4.8
AUG							
24...	1102	.30	3.65	279	7.0	28.2	5.6
24...	1103	.50	--	280	7.0	27.7	5.6
24...	1104	1.0	--	282	7.0	27.3	5.5
24...	1105	1.5	--	282	7.0	27.1	5.5
24...	1106	2.0	--	282	7.0	27.1	5.4
24...	1107	2.5	--	281	7.0	27.1	5.4
24...	1108	3.0	--	281	7.0	27.1	5.4
24...	1109	3.5	--	281	7.0	27.1	5.4
SEP							
24...	1135	.30	3.55	279	7.1	25.7	5.7
24...	1136	.50	--	282	7.1	25.6	5.7
24...	1137	1.0	--	279	7.1	25.6	5.6
24...	1138	1.5	--	278	7.1	25.6	5.6
24...	1139	2.0	--	279	7.1	25.6	5.6
24...	1140	2.5	--	278	7.0	25.5	5.5
24...	1141	3.0	--	279	7.0	25.6	5.5

270537081585800 - PEACE R. AT RIVER MILE 19.5 NEAR FT. OGDEN FL

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT							
29...	1321	.30	2.95	283	7.3	24.1	6.2
29...	1322	.50	--	283	7.3	24.0	6.3
29...	1323	1.0	--	283	7.3	24.0	6.3
29...	1324	1.5	--	287	7.3	24.0	6.3
29...	1325	2.0	--	282	7.3	24.0	6.3
29...	1326	2.5	--	287	7.3	24.0	6.3
29...	1327	2.8	--	281	7.3	24.0	6.3
NOV							
18...	1330	.30	4.05	326	7.3	24.1	6.7
18...	1331	.50	--	327	7.3	24.1	6.6
18...	1332	1.0	--	326	7.3	24.0	6.6
18...	1333	1.5	--	328	7.3	24.0	6.6
18...	1334	2.0	--	326	7.3	24.0	6.6
18...	1335	2.5	--	328	7.3	24.0	6.6
18...	1336	3.0	--	331	7.3	24.0	6.6
18...	1337	3.5	--	331	7.3	24.0	6.6
18...	1338	3.9	--	330	7.3	24.0	6.6
DEC							
29...	1313	.30	3.05	503	8.0	21.4	8.3
29...	1314	.50	--	503	8.0	21.4	8.3
29...	1315	1.0	--	502	8.0	21.4	8.2
29...	1316	1.5	--	503	8.0	21.3	8.2
29...	1317	2.0	--	503	7.9	21.2	8.1
29...	1318	2.5	--	503	7.9	21.2	8.1
29...	1319	2.9	--	503	7.9	21.2	8.1
JAN							
26...	1410	.30	2.35	364	7.4	20.4	7.0
26...	1411	.50	--	364	7.4	20.3	7.0
26...	1412	1.0	--	362	7.4	20.3	7.0
26...	1413	1.5	--	364	7.4	20.3	7.0
26...	1414	2.0	--	364	7.4	20.3	7.0
FEB							
23...	1357	.30	3.55	438	7.8	18.5	8.4
23...	1358	.50	--	441	7.8	18.3	8.3
23...	1359	1.0	--	442	7.8	17.2	8.3
23...	1400	1.5	--	445	7.8	17.1	8.2
23...	1401	2.0	--	438	7.8	17.1	8.2
23...	1402	2.5	--	437	7.8	17.0	8.2
23...	1403	3.0	--	441	7.8	17.0	8.1
23...	1404	3.4	--	445	7.8	17.0	8.1
MAR							
23...	1309	.30	4.15	569	7.9	23.6	8.0
23...	1310	.50	--	569	7.9	23.5	8.0
23...	1311	1.0	--	571	7.9	23.2	8.0
23...	1312	1.5	--	568	7.9	23.1	8.0
23...	1313	2.0	--	570	7.9	22.7	7.9
23...	1314	2.5	--	571	7.9	22.5	7.8
23...	1315	3.0	--	575	7.9	22.4	7.6
23...	1316	3.5	--	565	7.8	22.3	7.5
23...	1317	4.0	--	566	7.8	22.2	7.5
APR							
20...	1150	.30	2.45	749	7.9	24.4	7.8
20...	1151	.50	--	749	7.9	24.4	7.6
20...	1152	1.0	--	769	7.9	23.8	7.0
20...	1153	1.5	--	763	7.8	23.2	6.9
20...	1154	2.0	--	760	7.8	23.1	6.6
20...	1155	2.3	--	758	7.8	23.1	6.6
MAY							
26...	1140	.30	3.25	760	7.4	28.2	5.9
26...	1141	.50	--	766	7.4	27.7	5.7
26...	1142	1.0	--	765	7.4	27.6	5.7
26...	1143	1.5	--	767	7.4	27.5	5.6
26...	1144	2.0	--	767	7.4	27.5	5.5
26...	1145	2.5	--	766	7.4	27.5	5.5
26...	1146	3.0	--	765	7.4	27.4	5.5

270537081585800 - PEACE R. AT RIVER MILE 19.5 NEAR FT. OGDEN FL

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, DISSOLVED (MG/L) (00300)
JUN							
23...	1124	.30	4.15	416	7.1	27.7	5.3
23...	1125	.50	--	418	7.1	27.6	5.2
23...	1126	1.0	--	416	7.1	27.5	5.2
23...	1127	1.5	--	418	7.0	27.6	5.2
23...	1128	2.0	--	417	7.0	27.5	5.1
23...	1129	2.5	--	418	7.0	27.5	5.1
23...	1130	3.0	--	420	7.0	27.5	5.1
23...	1131	3.5	--	417	7.0	27.6	5.1
23...	1132	4.0	--	416	7.0	27.5	5.1
JUL							
28...	1133	.30	4.05	325	7.8	30.7	5.4
28...	1134	.50	--	324	7.7	30.5	5.4
28...	1135	1.0	--	313	7.6	30.4	5.3
28...	1136	1.5	--	330	7.5	30.3	5.3
28...	1137	2.0	--	327	7.4	30.3	5.2
28...	1138	2.5	--	312	7.4	30.3	5.2
28...	1139	3.0	--	316	7.4	30.3	5.2
28...	1140	3.5	--	326	7.4	30.3	5.2
28...	1141	3.9	--	324	7.3	30.3	5.2
AUG							
24...	1123	.30	2.65	272	7.0	27.6	5.8
24...	1124	.50	--	266	7.0	27.5	5.8
24...	1125	1.0	--	275	7.0	27.5	5.8
24...	1126	1.5	--	269	7.0	27.5	5.7
24...	1127	2.0	--	270	7.0	27.5	5.7
24...	1128	2.5	--	268	7.0	27.5	5.7
SEP							
24...	1151	.30	3.15	278	7.1	25.7	5.9
24...	1152	.50	--	276	7.1	25.7	5.8
24...	1153	1.0	--	274	7.1	25.7	5.8
24...	1154	1.5	--	279	7.1	25.7	5.8
24...	1155	2.0	--	278	7.1	25.7	5.8
24...	1156	2.5	--	277	7.1	25.7	5.8
24...	1157	3.0	--	277	7.1	25.7	5.8

LABORATORY ANALYSES

02297330 - PEACE RIVER AT FT. OGDEN FL

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
OCT									
28...	1620	.30	1.95	200	7.6	22	7.9	13	7
28...	1640	1.6	1.95	200	7.9	22	8.1	15	8
NOV									
17...	1535	.30	2.75	160	2.0	27	7.7	5	2
17...	1555	2.5	2.75	160	2.0	27	7.7	5	2
DEC									
28...	1645	.30	1.95	60	2.2	37	4.6	5	3
28...	1710	1.6	1.95	60	1.9	38	4.6	2	1
JAN									
25...	1650	.30	1.65	80	1.4	32	4.3	5	2
25...	1715	1.4	1.65	100	1.5	33	4.3	6	2
FEB									
22...	1720	.30	1.65	100	2.0	36	5.8	2	1
22...	1730	1.4	1.65	100	2.0	36	5.9	4	3
MAR									
22...	1645	1.8	2.05	40	.38	52	1.3	7	2
22...	1700	.30	2.05	40	1.5	52	1.3	6	3
APR									
19...	1510	.30	1.85	40	.45	190	2.2	7	4
19...	1525	1.5	1.85	40	.46	200	2.2	8	5
MAY									
25...	1530	.30	2.55	50	.51	97	2.8	5	4
25...	1550	2.2	2.55	50	.67	96	3.1	7	4
JUN									
22...	1535	.30	2.05	240	.83	50	7.3	6	3
22...	1600	1.8	2.05	200	.91	50	7.3	6	3
JUL									
27...	1520	.30	2.65	280	2.0	29	8.2	<1	<1
27...	1540	2.3	2.65	280	2.4	29	8.2	4	2
AUG									
23...	1510	.30	3.15	240	3.8	29	7.5	7	4
23...	1535	2.8	3.15	240	6.2	29	7.4	10	4
SEP									
23...	1500	.30	2.25	240	5.1	25	7.1	4	<1
23...	1520	2.0	2.25	240	3.7	25	7.1	6	3

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)
		02297330		- PEACE RIVER AT FT. OGDEN FL					
OCT									
28...	<.01	.48	.04	1.0	1.0	.78	20	19	19
28...	<.01	.48	.04	1.1	1.0	.79	20	18	19
NOV									
17...	<.01	.58	.05	.69	.77	.67	13	12	12
17...	<.01	.57	.05	1.1	.81	.67	14	13	12
DEC									
28...	<.01	.69	.05	.57	.91	.86	9.6	9.5	23
28...	<.01	.70	.06	.54	.91	.86	10	5.0	23
JAN									
25...	<.01	.67	.06	.63	.73	.62	14	12	15
25...	<.01	.67	.06	.73	.72	.63	14	12	16
FEB									
22...	<.01	.68	.04	.75	.74	.67	14	13	18
22...	<.01	.68	.04	.71	.75	.68	13	13	18
MAR									
22...	<.01	.42	.03	.48	.74	.61	9.3	8.8	20
22...	<.01	.42	.03	.51	.69	.62	9.5	8.9	20
APR									
19...	<.01	.08	.03	.64	.89	.86	10	10	24
19...	<.01	.08	.02	.69	.91	.86	11	10	25
MAY									
25...	.01	.61	.06	.77	.65	.62	12	10	19
25...	.02	.69	.07	.73	.63	.59	13	11	19
JUN									
22...	.04	1.2	.09	1.2	.59	.58	21	20	10
22...	.04	1.2	.09	1.2	.64	.58	22	20	11
JUL									
27...	.01	.55	.06	1.2	.60	.59	25	24	11
27...	.01	.54	.07	1.2	.64	.60	24	23	14
AUG									
23...	.01	.52	.03	1.3	.57	.46	27	26	8.7
23...	.01	.51	.04	1.6	.63	.47	26	26	8.7
SEP									
23...	<.01	.50	.05	.86	.51	.46	26	26	8.1
23...	<.01	.50	.04	1.1	.53	.46	26	26	8.0

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA									
OCT									
28...	1035	.30	3.75	40	.45	12000	3.1	23	10
28...	1055	3.5	3.75	40	.76	13000	3.2	24	9
NOV									
17...	1035	.30	3.85	30	.38	12000	1.3	26	<1
17...	1055	3.5	3.85	20	2.2	14000	2.6	31	11
DEC									
28...	1130	.30	4.05	20	.30	14000	1.4	28	11
28...	1155	3.8	4.05	20	.37	15000	1.4	25	10
JAN									
25...	1040	.30	3.65	20	.50	14000	1.4	35	12
25...	1120	3.3	3.65	20	.49	15000	1.2	50	12
FEB									
22...	1035	.30	3.55	20	.66	13000	.1	30	10
22...	1050	3.2	3.55	20	.48	14000	.1	38	12
MAR									
22...	1050	.30	3.65	20	.40	15000	.5	51	17
22...	1105	3.3	3.65	20	.44	16000	.7	48	17
APR									
19...	0920	.30	3.65	10	.14	16000	.5	50	18
19...	0940	3.3	3.65	10	.13	16000	.6	54	17
MAY									
25...	1005	.30	4.05	10	.28	16000	.1	50	19
25...	1025	3.8	4.05	10	.26	17000	1.1	52	20
JUN									
22...	0935	.30	4.15	40	.25	12000	1.5	32	10
22...	0955	3.8	4.15	20	.30	15000	.5	44	17
JUL									
27...	0910	.30	4.05	80	.75	7300	3.5	18	8
27...	0930	3.8	4.05	40	1.4	12000	4.9	33	11
AUG									
23...	0955	.30	4.15	70	1.8	8200	3.1	27	14
23...	1015	3.8	4.15	60	1.7	8900	3.5	12	7
SEP									
23...	0915	.30	3.95	80	1.0	8200	4.0	32	13
23...	0935	3.7	3.95	30	1.3	14000	2.6	38	16

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)
265355082075500 - UPPER CHARLOTTE HARB TRANSECT 2 NR PUNTA GORDA									
OCT									
28...	<.01	<.02	.04	.45	.16	.18	8.5	8.3	35
28...	.01	<.02	.11	.48	.17	.17	5.7	5.6	37
NOV									
17...	<.01	<.02	.03	.54	.16	.14	4.4	4.4	22
17...	.01	<.02	.20	.57	.19	.16	3.6	3.3	25
DEC									
28...	.02	<.02	.05	.47	.10	.12	4.9	4.9	26
28...	.02	<.02	.05	.42	.09	.12	4.9	4.0	26
JAN									
25...	<.01	<.02	.02	.38	.12	.12	6.0	5.1	24
25...	<.01	<.02	.02	.42	.10	.11	5.0	3.9	26
FEB									
22...	<.01	<.02	.01	.57	.17	.14	7.9	6.7	26
22...	<.01	<.02	.02	.48	.14	.12	5.7	5.5	26
MAR									
22...	<.01	<.02	.03	.41	.11	.10	5.2	4.3	26
22...	.01	<.02	.03	.41	.12	.10	4.1	4.0	26
APR									
19...	.02	<.02	.03	.38	.10	.11	5.7	5.4	28
19...	.02	<.02	.04	.47	.11	.11	4.1	4.0	28
MAY									
25...	.01	<.02	.04	.55	.14	.13	6.3	5.8	31
25...	.01	<.02	.04	.49	.12	.11	5.3	4.6	32
JUN									
22...	.02	.10	.07	.50	.17	.19	7.8	7.3	24
22...	.01	.02	.04	.30	.12	.13	5.6	5.1	25
JUL									
27...	<.01	<.02	.02	1.0	.29	.28	15	15	24
27...	<.01	<.02	.46	1.1	.23	.23	9.7	9.5	29
AUG									
23...	<.01	<.02	.04	1.1	.26	.22	15	14	22
23...	<.01	<.02	.13	.92	.24	.22	12	12	23
SEP									
23...	.02	.08	.20	.80	.24	.20	12	12	22
23...	.01	<.02	.26	.54	.12	.15	7.4	7.1	26

DATE	TIME	SAMPLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLATINUM-COBALT UNITS) (00080)	TURBIDITY (NTU) (00076)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	RESIDUE VOLATILE, SUSPENDED (MG/L) (00535)
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA									
OCT									
28...	1150	.30	2.95	100	3.1	8500	3.3	26	12
28...	1205	2.7	2.95	100	5.4	8500	3.3	28	12
NOV									
17...	1150	.30	2.95	70	1.4	8100	3.1	24	9
17...	1215	2.7	2.95	50	3.7	11000	3.2	38	12
DEC									
28...	1250	.30	3.15	30	.30	11000	2.8	28	12
28...	1320	2.8	3.15	40	6.5	14000	2.1	46	15
JAN									
25...	1225	.30	2.85	50	1.1	8300	3.2	23	10
25...	1240	2.5	2.85	30	2.2	14000	2.0	36	12
FEB									
22...	1210	.30	2.65	40	1.5	9100	.1	25	9
22...	1220	2.3	2.65	50	1.3	11000	.2	33	12
MAR									
22...	1205	.30	3.05	40	1.2	12000	.09	41	16
22...	1215	2.8	3.05	40	1.2	13000	.1	47	16
APR									
19...	1035	.30	2.65	20	.50	13000	1.5	36	13
19...	1050	2.3	2.65	20	.44	13000	1.5	41	15
MAY									
25...	1115	.30	3.15	10	.28	15000	.10	54	21
25...	1125	2.8	3.15	20	.36	15000	.1	56	23
JUN									
22...	1040	.30	3.15	60	.30	10000	2.9	32	12
22...	1110	2.8	3.15	10	.29	15000	1.9	51	22
JUL									
27...	1020	.30	3.15	120	1.2	4800	5.5	17	7
27...	1035	2.8	3.15	80	1.2	8400	5.2	26	10
AUG									
23...	1110	.30	3.65	120	1.3	3000	5.3	6	2
23...	1120	3.3	3.65	70	3.1	7600	5.1	14	6
SEP									
23...	1030	.30	3.15	50	1.6	5600	5.6	18	9
23...	1045	2.8	3.15	50	4.1	11000	3.3	39	15

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)
265640082033500 - PEACE RIVER AT RIVER MILE 3.95 NEAR PUNTA GORDA									
OCT									
28...	<.01	<.02	.02	.84	.35	.31	10	10	31
28...	<.01	<.02	.03	.77	.36	.30	11	9.8	30
NOV									
17...	<.01	.04	.07	.88	.28	.23	7.7	7.3	19
17...	.01	.03	.23	.60	.37	.22	4.9	4.7	22
DEC									
28...	.02	<.02	.10	.76	.20	.20	6.7	6.5	25
28...	.02	<.02	.09	.62	.21	.14	5.2	5.0	27
JAN									
25...	<.01	.03	.03	.59	.27	.25	7.5	7.3	22
25...	.01	<.02	.05	.48	.18	.16	6.2	5.0	25
FEB									
22...	<.01	<.02	.02	.73	.31	.25	9.0	8.8	23
22...	<.01	<.02	.04	.79	.29	.20	8.1	7.2	25
MAR									
22...	<.01	<.02	<.01	.60	.25	.16	7.6	7.2	24
22...	.01	<.02	.03	.65	.26	.16	7.1	6.9	25
APR									
19...	.02	.02	.14	.66	.25	.25	8.5	8.1	26
19...	.01	.02	.14	.55	.26	.24	8.4	7.6	26
MAY									
25...	.01	<.02	.04	.73	.27	.22	8.5	7.7	28
25...	.01	<.02	.04	.85	.29	.22	7.1	6.7	28
JUN									
22...	.02	.22	.13	.73	.26	.28	7.4	7.2	25
22...	.01	.02	.12	.43	.17	.18	5.4	5.4	28
JUL									
27...	<.01	.08	.07	1.1	.39	.35	17	16	20
27...	<.01	<.02	.34	1.2	.38	.34	12	12	24
AUG									
23...	.01	.14	.12	1.0	.41	.36	18	17	16
23...	.01	.04	.29	1.1	.33	.28	14	13	22
SEP									
23...	.02	.13	.17	.98	.29	.29	15	14	21
23...	.02	.03	.27	.85	.20	.18	9.6	8.9	25

DATE	TIME	SAM-PLING DEPTH (M) (00098)	DEPTH TO BOT. FROM SURFACE AT SAMP LOC. METERS (82903)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	RESIDUE VOLA-TILE, SUS-PENDED (MG/L) (00535)
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN									
OCT									
28...	1510	.30	3.75	200	4.6	21	7.7	9	7
28...	1525	3.5	3.75	200	6.8	21	7.6	12	7
NOV									
17...	1410	.30	4.35	160	1.4	26	7.4	4	2
17...	1430	4.1	4.35	160	3.2	28	7.4	6	1
DEC									
28...	1515	.30	3.25	60	2.6	200	6.2	7	3
28...	1530	3.0	3.25	60	2.8	310	6.4	3	<1
JAN									
25...	1540	4.2	4.45	70	1.4	34	3.7	3	2
25...	1555	.30	4.45	70	1.2	33	3.7	4	2
FEB									
22...	1555	.30	4.15	100	2.2	38	5.9	3	2
22...	1610	3.8	4.15	100	2.3	44	6.0	4	2
MAR									
22...	1510	.30	4.85	60	1.6	440	1.9	5	2
22...	1525	4.6	4.85	60	1.8	630	1.9	8	3
APR									
19...	1340	.30	4.45	50	.29	1900	2.5	11	6
19...	1400	4.2	4.45	50	.46	3000	2.7	14	7
MAY									
25...	1420	.30	4.45	50	.41	2600	3.1	12	8
25...	1435	4.2	4.45	50	.35	3300	3.0	14	7
JUN									
22...	1355	.30	3.65	200	1.1	48	6.6	7	3
22...	1410	3.3	3.65	200	.94	49	7.0	8	4
JUL									
27...	1345	.30	4.65	240	1.9	43	8.2	<1	<1
27...	1405	4.3	4.65	240	3.1	44	8.2	3	1
AUG									
23...	1410	.30	4.75	240	2.0	28	7.2	1	2
23...	1420	4.4	4.75	240	1.9	28	7.2	2	1
SEP									
23...	1330	.30	4.35	200	2.5	32	7.0	<1	<1
23...	1350	4.1	4.35	200	4.5	32	6.9	6	2

MISCELLANEOUS SURFACE WATER QUALITY RECORDS
OCTOBER 1998 TO SEPTEMBER 1999

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)
270318081593100 - PEACE RIVER AT RIVER MILE 14.82 NEAR FT. OGDEN									
OCT									
28...	<.01	.46	.04	1.0	.89	.77	20	20	19
28...	<.01	.45	.05	1.1	.93	.77	19	18	19
NOV									
17...	<.01	.49	.09	.99	.73	.63	13	13	12
17...	<.01	.49	.07	.96	.77	.63	13	13	12
DEC									
28...	<.01	.58	.08	.53	.82	.77	9.9	9.9	22
28...	<.01	.55	.05	.67	.80	.74	10	9.9	22
JAN									
25...	<.01	.55	.06	.59	.80	.72	12	10	20
25...	<.01	.55	.06	.45	.78	.71	11	10	19
FEB									
22...	<.01	.63	.05	.84	.72	.65	15	14	17
22...	<.01	.60	.05	.84	.74	.64	14	14	17
MAR									
22...	<.01	.25	.03	.53	.68	.62	10	9.9	20
22...	<.01	.23	.04	.55	.70	.62	10	10	20
APR									
19...	<.01	.06	.05	.76	.72	.69	12	11	22
19...	<.01	.08	.08	.64	.69	.64	11	11	22
MAY									
25...	<.01	<.02	.03	.94	.68	.64	13	11	20
25...	<.01	.05	.03	.68	.71	.60	11	11	21
JUN									
22...	.03	1.2	.11	1.1	.58	.56	24	23	11
22...	.04	1.2	.11	1.1	.59	.57	23	19	10
JUL									
27...	<.01	.41	.07	1.3	.59	.58	26	23	13
27...	.01	.41	.07	1.3	.60	.59	23	22	12
AUG									
23...	<.01	.47	.04	1.1	.55	.48	25	24	8.3
23...	<.01	.48	.05	1.3	.56	.48	26	25	8.1
SEP									
23...	<.01	.43	.05	.89	.48	.47	23	23	9.3
23...	<.01	.42	.06	.90	.53	.46	23	23	9.3

ELEVATION AND WATER QUALITY OF LAKES

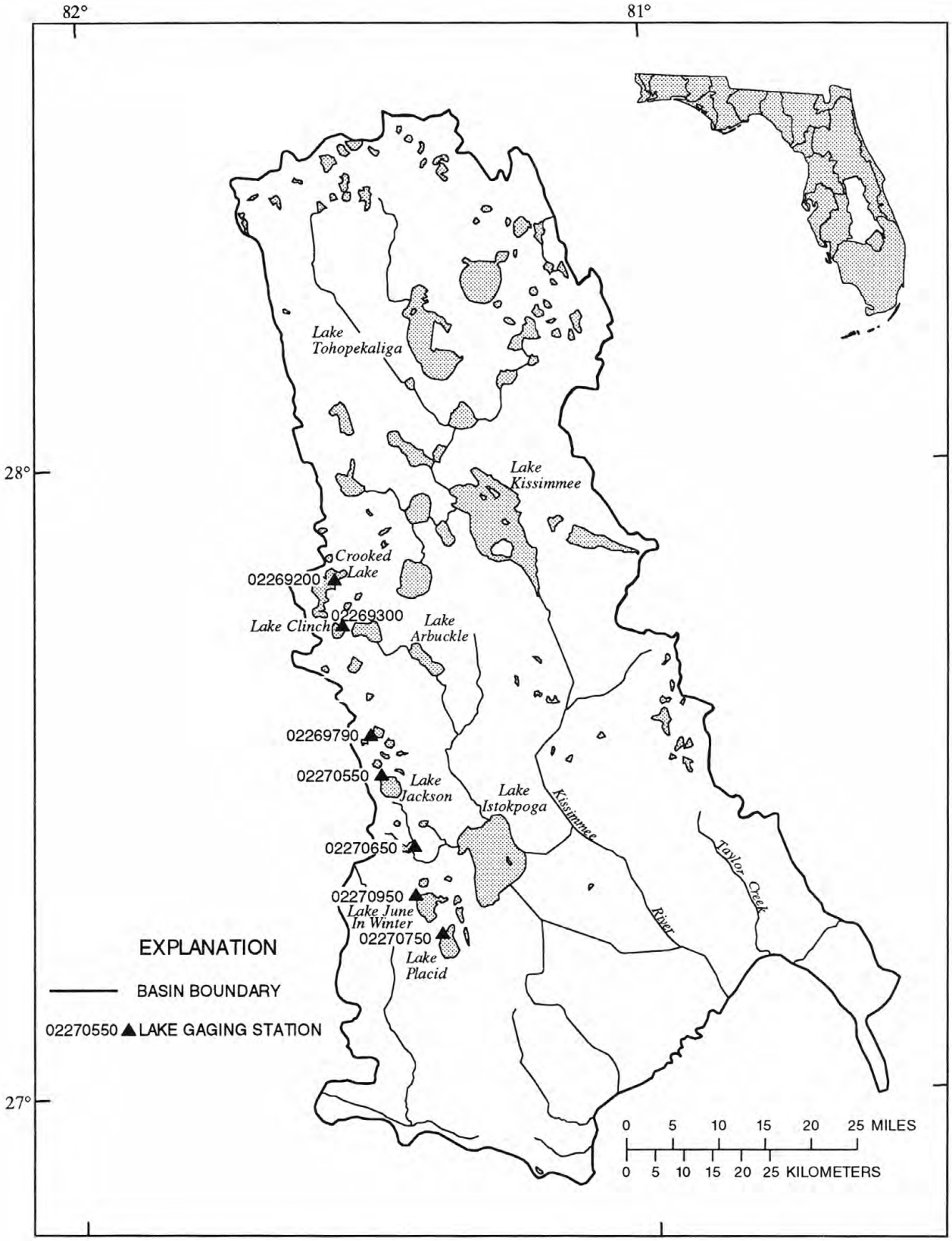

Figure 17.--Location of lake gaging stations in the Kissimmee River basin; the Taylor Creek basin and inflow to Lake Okeechobee from the north; and Fisheating Creek basin and inflow to Lake Okeechobee from the northwest.

KISSIMMEE RIVER BASIN

02269200 CROOKED LAKE NEAR BABSON PARK, FL

LOCATION.--Lat 27°49'39", long 81°33'12", in SE$^1/_4$ sec.31, T.30 S., R.28 E., Polk County, Hydrologic Unit 03090101, on a peninsula point on east shore near north end of lake, and 1.5 mi west of Babson Park.

SURFACE AREA.--5,533 acres (8.65 mi^2).

DRAINAGE AREA.--31.3 mi^2.

PERIOD OF RECORD.--April 1945 to current year (weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Feb. 6, 1968, at site 0.2 mi west at datum 15.71 ft higher; Feb. 7, 1968, to Apr. 16, 1976, at same site at datum 15.71 ft higher.

REMARKS.--Lake is one of the Arbuckle Creek headwaters chain of lakes. Lake level controlled by concrete control with removable boards.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 124.1 ft, about Sept. 11, 1960, from floodmark; minimum observed, 106.10 ft, May 20, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 118.12 ft, Oct. 6; minimum observed, 116.07 ft, June 3.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118.10	---	---	---	---	117.35	116.95	---	---	117.00	---	---
2	---	---	117.54	---	---	---	---	---	---	---	---	---
3	118.10	---	---	117.48	117.45	117.28	---	---	116.07	---	---	---
4	---	---	---	---	---	---	---	---	---	---	117.12	117.66
5	---	---	117.56	---	---	---	---	---	---	---	---	---
6	118.12	117.83	---	117.36	---	117.25	---	116.36	---	---	117.28	---
7	---	---	117.55	---	---	---	116.86	---	---	---	---	---
8	---	---	---	---	---	---	---	---	116.31	---	117.32	---
9	118.06	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	117.38	---	---	116.90	---	---	116.98	117.38	---
11	---	---	---	---	---	---	---	---	---	---	---	117.66
12	---	---	---	---	117.36	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	117.75	---	---	---	---	---	---	---	---	---	---
15	---	---	117.46	---	---	117.20	---	116.42	---	---	---	---
16	---	---	---	117.34	---	---	---	---	116.38	---	---	---
17	117.92	---	---	---	---	---	---	---	---	116.96	---	---
18	---	117.68	---	---	---	---	116.60	116.37	---	---	---	117.85
19	---	---	---	---	---	---	---	---	---	---	---	117.94
20	---	---	---	---	117.46	---	---	---	---	---	---	---
21	117.84	117.66	117.34	---	---	---	116.54	---	---	---	117.46	118.02
22	117.96	---	---	---	---	---	---	116.29	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	117.36	117.45	117.32	---	116.48	---	116.66	117.16	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	117.66	---	117.44	---	---	---	---	---	---	117.71	118.02
27	---	---	---	---	---	117.04	---	116.20	116.95	---	---	---
28	---	---	---	117.42	---	---	---	---	---	---	---	---
29	117.70	---	---	---	---	---	116.48	116.18	116.90	117.14	---	---
30	---	---	---	117.38	---	116.95	116.50	---	116.92	---	---	118.06
31	---	---	---	---	---	---	---	---	---	117.06	117.66	---

KISSIMMEE RIVER BASIN

02269300 LAKE CLINCH AT FROSTPROOF, FL

LOCATION.--Lat 27°45'15", long 81°32'25", in SW$^1/_4$ sec.29, T.31 S., R.28 E., Polk County, Hydrologic Unit 03090101, on north shore of lake, near private pier, and 0.9 mi northwest of Frostproof.

SURFACE AREA.--1,194 acres (1.87 mi^2).

DRAINAGE AREA.--42.0 mi^2.

PERIOD OF RECORD.--January 1947 to December 1977 (weekly), incomplete; January 1978 to November 1981 (incomplete); December 1981 to September 1996 (weekly), incomplete; October 1996 to current year (monthly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Sept. 13, 1953, at site 0.8 mi southeast at same datum.

REMARKS.--Lake is one of the Arbuckle Creek headwater lakes. Outflow is to Reedy Lake.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 110.20 ft, on or about Oct. 10, 1948, from floodmark; minimum observed, 100.20 ft, June 4, 12, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 105.07 ft, Oct. 6; minimum observed, 103.04 ft, June 9.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	104.38	103.98	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	103.98	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	105.07	---	---	104.36	---	---	---	103.10	---	---	---	---
7	---	---	104.53	---	---	---	103.62	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	103.04	---	---	---
10	---	---	---	---	---	---	---	---	---	---	104.05	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	104.04	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	103.17	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	104.46
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	104.38	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	103.90	---	---	---
30	---	---	---	---	---	103.70	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

KISSIMMEE RIVER BASIN

02269790 LAKE LOTELA NEAR AVON PARK, FL

LOCATION.--Lat 27°34'38", long 81°29'38", in SW$^1/_4$ sec.26, T.33 S., R.28 E., Highlands County, Hydrologic Unit 03090101, on west shore of lake near intake channel at power plant, and 1.5 mi southeast of Avon Park.

SURFACE AREA.--795 acres (1.24 mi^2).

DRAINAGE AREA.--12.2 mi^2.

PERIOD OF RECORD.--September 1950 to September 1975 (weekly), incomplete; October 1979 to August 1981 (twice weekly), incomplete; September 1981 to September 1988 (incomplete); October 1988 to September 1996 (weekly), incomplete; October 1996 to current year (monthly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is 52.75 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Feb. 6, 1973, at several locations 1 mi northeast at datum 47.18 ft higher; Feb. 6, 1973, to Sept. 24, 1973, at site 200 ft north at datum 47.18 ft higher; Sept. 24, 1973, to May 27, 1987, at present site at datum 47.18 ft higher.

REMARKS.--Lake is one of a chain of lakes in the headwaters of Carter Creek, a tributary of Arbuckle Creek. Lake has two outlets which join before entering Lake Letta; one outlet has a concrete dam with removable boards, the other outlet flows only at high lake elevations.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 109.38 ft, July 25, 1954; minimum observed, 97.87 ft, May 20, 21, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 107.89 ft, Oct. 1; minimum observed, 104.29 ft, Aug. 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107.89	---	---	---	107.13	---	---	---	---	104.62	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	104.47	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	104.29	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	107.78	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	107.64	---	---	---	---	104.88	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	106.76	---	---	---	---	---	104.74	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	104.78	---	---	---	---
28	---	---	---	107.20	---	---	---	---	---	104.54	---	---
29	107.66	---	---	---	---	---	105.34	---	---	---	---	104.86
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	106.12	---	---	---	---	---	---

KISSIMMEE RIVER BASIN

02270550 LAKE JACKSON AT SEBRING, FL

LOCATION.--Lat 27°30'49", long 81°28'33", in NW$^1/_4$ sec.24, T.34 S., R.28 E., Highlands County, Hydrologic Unit 03090101, on north shore of northwest bay of lake, and 2.4 mi northwest of Sebring.

SURFACE AREA.--3,244 acres (5.07 mi^2).

DRAINAGE AREA.--14.0 mi^2.

PERIOD OF RECORD.--April 1945 to August 1958 (weekly), incomplete; September 1958 to April 1968; May to August 1968 (weekly); September 1968 to September 1975; November 1979 to September 1994 (twice weekly), incomplete; October 1994 to current year (monthly). Prior to October 1957, published as Rex Beach Lake at Sebring. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 90.04 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Sept. 16, 1958, at several sites southeast on east shore of lake at datum 6.27 ft higher; Sept. 16, 1958, to Sept. 30, 1975, at site 0.3 mi southeast at former datum.

REMARKS.--Lake is in the Highlands Ridge section of Highlands County and is one of the Josephine Creek headwater lakes which drains southward through Josephine Creek and its tributaries into Lake Istokpoga. Since February 1946, outflow from lake controlled by concrete dam at head of Jackson Creek; present control completed in August 1971 with crest at elevation 102.7 ft.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 103.76 ft, Sept. 19, 1947; minimum observed, 97.16 ft, May 24, 1982. Maximum elevation known, 104.7 ft in 1953 on south side of lake (elevation on north side was about 0.7 ft lower) due to hurricane, observed by location engineer, Florida Department of Transportation.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 102.76 ft, Sept. 29; minimum observed, 100.52 ft, May 21.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	102.00	---	101.28	---	---	101.44	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	102.52	---	---	---	---	---	---	---	---	101.58	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	102.10	---	---	---	---	---	---	---	102.24	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	102.40	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	102.08	---	---	---	---	100.52	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	101.68	---	---	---	---	---	102.74	---
26	---	---	---	---	---	---	---	100.58	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	102.18	---	---	102.02	---	---	---	---	---	102.18	---	---
29	---	---	---	---	---	---	100.80	---	---	---	---	102.76
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	101.32	---	---	---	---	---	---

KISSIMMEE RIVER BASIN

02270650 LAKE JOSEPHINE NEAR DE SOTO CITY, FL

LOCATION.--Lat 27°24'00", long 81°25'10", in SE$^1/_4$ sec.28, T.35 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on east shore of lake at boat dock, 3.0 mi southwest of De Soto City, and 6.5 mi southeast of Sebring.

SURFACE AREA.--1,240 acres (1.94 mi^2).

DRAINAGE AREA.--46.3 mi^2.

PERIOD OF RECORD.--December 1946 to July 1955 (weekly), incomplete; August 1955 to September 1975 (weekly); October 1982 to September 1992; October 1992 to May 1994 (weekly), incomplete; June 1994 to March 1996 (incomplete); April 1996 to current year (monthly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (Florida Department of Transportation bench mark). Prior to Aug. 19, 1955, nonrecording gage at site on east shore of lake at datum 65.73 ft higher; Aug. 20, 1955, to May 21, 1975, nonrecording gage at site 0.1 mi south at present datum; May 21, 1975, to Sept. 30, 1992, water-stage recorder at present site at present datum; Oct. 1, 1992, to June 9, 1994, nonrecording gage at present site at present datum; June 10, 1994, to Mar. 12, 1996, water-stage recorder at present site at present datum.

REMARKS.--Lake is one of Josephine Creek headwaters chain of lakes at head of Josephine Creek which drains east-ward to Lake Istokpoga. Outflow from lake controlled by concrete dam near head of Josephine Creek since April 1965.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 76.80 ft, Sept. 26, 1948, from floodmark; minimum observed, 69.09 ft, May 29, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 72.20 ft, Aug. 25; minimum observed, 71.02 ft, Apr. 28.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	71.40	---	71.20	---	---	71.82	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	71.49	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	71.79	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	71.36	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	71.59	---
17	---	---	71.36	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	71.46	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	71.06	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	71.36	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	72.20	---
26	---	---	---	---	---	---	---	71.16	---	---	---	---
27	---	---	---	71.44	---	---	---	---	---	---	---	---
28	71.34	---	---	---	---	---	71.02	---	---	71.56	---	---
29	---	---	---	---	---	---	---	---	---	---	---	71.82
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	71.22	---	---	---	---	---	---

KISSIMMEE RIVER BASIN

02270750 LAKE PLACID NEAR LAKE PLACID, FL

LOCATION.--Lat 27°15'37", long 81°22'22", in NE$^1/_4$ sec.13, T.37 S., R.29 E., Highlands County, Hydrologic Unit 03090101, on northwest shore of lake, on private dock, 0.7 mi northeast of head of Placid-June Canal, and 2.8 mi south of town of Lake Placid.

SURFACE AREA.--3,381 acres (5.28 mi^2).

DRAINAGE AREA.--20.2 mi^2.

PERIOD OF RECORD.--June 1931 to July 1941 (weekly), incomplete; April 1945 to December 1952 (weekly), incomplete; January 1953 to September 1975; October 1979 to current year (twice weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 79.66 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Jan. 14, 1953, nonrecording gage at same site at present datum; Jan. 14, 1953, to Nov. 28, 1973, water-stage recorder at same site at present datum; Nov. 28, 1973, to Sept. 30, 1975, water-stage recorder at same site at datum 79.66 ft lower; Oct. 1, 1979, to Apr. 17, 1981, nonrecording gage at site 0.2 mi northeast at present datum.

REMARKS.--Lake is in the Highlands Ridge section of Highlands County, and is one of the Lake Placid west chain of lakes which drains northward into Josephine Creek. Outflow from lake is to Lake June-in-Winter (west-chain) to Lake Huntley (east chain), and to Mirror Lake (no surface outlet).

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 96.0 ft (estimated), Sept. 11, 12, 1960; minimum observed, 88.30 ft, June 19, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 93.48 ft, Sept. 30; minimum observed, 91.48 ft, June 13.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93.36	---	---	---	---	---	92.10	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	91.85	---
3	---	93.02	93.32	93.12	92.92	92.48	---	91.76	---	---	---	92.98
4	93.36	---	---	---	---	---	92.18	---	---	92.20	---	---
5	---	---	---	---	---	---	---	---	91.54	---	92.10	---
6	---	93.44	93.30	93.04	92.90	92.44	---	91.80	---	---	---	---
7	93.32	---	---	---	---	---	92.12	---	91.56	92.14	---	---
8	---	---	---	---	---	---	---	---	---	---	92.12	93.18
9	---	93.42	93.28	93.02	---	92.40	---	91.78	---	---	---	---
10	93.30	---	---	---	---	---	92.08	---	91.50	92.10	---	93.24
11	---	93.40	---	---	---	---	---	---	---	---	---	---
12	---	---	93.24	92.96	92.86	92.34	---	91.84	---	---	92.10	---
13	---	---	---	---	---	---	92.00	---	91.48	92.04	---	93.22
14	93.26	93.38	---	---	---	---	---	---	---	---	---	---
15	---	---	93.22	92.94	92.74	92.32	---	91.76	---	---	92.10	---
16	---	---	---	---	---	---	91.90	---	---	---	---	93.22
17	93.20	93.38	---	---	---	---	---	---	---	92.06	---	---
18	---	---	93.18	92.96	92.70	92.30	---	---	91.74	---	---	---
19	---	---	---	---	---	---	91.88	---	---	---	92.30	93.24
20	93.14	93.44	---	---	---	---	---	91.78	---	92.00	---	---
21	---	---	93.18	92.96	92.66	92.24	---	---	91.92	---	---	---
22	93.24	---	---	---	---	---	91.80	---	---	---	---	93.38
23	---	93.40	---	---	---	---	---	91.74	91.98	92.04	---	---
24	---	---	---	93.04	92.60	---	---	---	---	---	---	---
25	93.18	---	93.15	---	---	92.20	91.74	---	---	---	92.80	93.38
26	---	93.42	---	---	---	---	---	91.68	92.00	---	---	---
27	---	---	---	92.98	---	---	---	---	---	---	---	---
28	93.12	---	93.12	---	92.52	92.16	91.78	---	---	---	---	93.44
29	---	---	---	---	---	---	---	91.65	---	---	---	---
30	---	93.36	---	---	---	---	91.82	---	92.10	---	---	93.48
31	93.08	---	93.08	92.94	---	---	---	91.58	---	---	92.82	---

KISSIMMEE RIVER BASIN

02270950 LAKE JUNE-IN-WINTER NEAR LAKE PLACID, FL

LOCATION.--Lat 27°19'19", long 81°25'08", in NE$^1/_4$ sec.28, T.36 S., R.29 E., Highlands County, Hydrologic Unit 03090101, near northwest bay of lake, at boat pier, 150 ft east of Stearns Creek, and 3.6 mi northwest of town of Lake Placid.

SURFACE AREA.--3,662 acres (5.72 mi^2).

DRAINAGE AREA.--44.0 mi^2.

PERIOD OF RECORD.--April 1945 to December 1952 (weekly); January 1953 to January 1968; February 1968 to August 1980 (weekly); August 1980 to current year. Records of elevations prior to October 1960 are available in files of the Geological Survey. May 1955 to January 1968, records for Stearns Creek near Lake Placid (station 02271000).

GAGE.--Water-stage recorder. Datum of gage is 65.38 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark); gage readings have been reduced to elevations above NGVD. Prior to Jan. 20, 1953, nonrecording gage and Jan. 20, 1953, to May 23, 1955, water-stage recorder at site on southeast shore of lake on private pier at same datum; May 24, 1955, to Jan. 24, 1968, water-stage recorder on Stearns Creek 250 ft downstream from Lake June-in-Winter at same datum; February 1968 to Aug. 11, 1980, nonrecording gage at same datum.

REMARKS.--Lake is in the Highlands Ridge section of Highlands County and is one of the Lake Placid west chain of lakes which drain northward into Josephine Creek. From Mar. 23, 1955, to Feb. 26, 1968, lake level controlled by a 10-bay sheet-pile stoplog control in Stearns Creek. Subsequent to Feb. 26, 1968, lake level controlled by a 1-culvert stoplog structure 0.6 mi downstream on Stearns Creek and a 3-culvert stoplog structure 1.6 mi downstream on Stearns Creek Canal. Since 1972 lake level controlled by SWFWMD gated structure (G-90), 1.6 mi downstream on Stearns Creek Canal, and since December 1987 structure (G-91) controls normal lake levels, 0.6 mi downstream on Stearns Creek.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 77.58 ft, Oct. 6, 1948; minimum, 71.62 ft, May 26, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 74.92 ft, Sept.27; minimum, 73.26 ft, June 4.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74.62	74.30	74.58	74.40	74.48	74.10	73.85	73.51	73.41	74.23	74.08	74.71
2	74.63	74.30	74.57	74.40	74.46	74.09	73.86	73.49	73.40	74.22	74.07	74.73
3	74.63	74.29	74.57	74.45	74.46	74.08	73.86	73.48	73.39	74.22	74.18	74.72
4	74.63	74.37	74.57	74.44	74.46	74.07	73.86	73.48	73.38	74.21	74.22	74.71
5	74.64	74.64	74.57	74.42	74.45	74.06	73.85	73.46	73.41	74.21	74.22	74.70
6	74.63	74.68	74.56	74.40	74.44	74.05	73.85	73.47	73.41	74.20	74.21	74.69
7	74.62	74.68	74.56	74.39	74.42	74.05	73.83	73.52	73.40	74.20	74.20	74.70
8	74.61	74.69	74.55	74.39	74.42	74.04	73.80	73.52	73.40	74.19	74.20	74.73
9	74.60	74.69	74.54	74.39	74.41	74.02	73.79	73.53	73.40	74.18	74.20	74.73
10	74.59	74.70	74.53	74.39	74.40	74.00	73.77	73.55	73.45	74.18	74.23	74.72
11	74.59	74.70	74.52	74.38	74.40	73.99	73.75	73.53	73.45	74.17	74.24	74.72
12	74.59	74.70	74.52	74.37	74.39	73.98	73.73	73.53	73.46	74.18	74.24	74.72
13	74.57	74.70	74.52	74.37	74.35	73.98	73.72	73.54	73.51	74.23	74.24	74.71
14	74.56	74.69	74.53	74.38	74.32	73.98	73.71	73.53	73.50	74.22	74.23	74.69
15	74.54	74.70	74.50	74.38	74.30	73.96	73.68	73.52	73.50	74.20	74.24	74.67
16	74.53	74.70	74.49	74.38	74.29	73.95	73.66	73.50	73.59	74.19	74.28	74.68
17	74.51	74.69	74.47	74.39	74.28	73.94	73.64	73.48	73.82	74.18	74.27	74.67
18	74.50	74.69	74.45	74.39	74.26	73.93	73.63	73.47	73.91	74.18	74.30	74.67
19	74.48	74.69	74.45	74.39	74.25	73.93	73.61	73.46	73.96	74.17	74.33	74.72
20	74.47	74.68	74.46	74.39	74.24	73.92	73.59	73.44	73.97	74.16	74.36	74.78
21	74.47	74.68	74.46	74.39	74.21	73.91	73.58	73.44	73.99	74.14	74.37	74.77
22	74.45	74.67	74.46	74.41	74.19	73.89	73.57	73.44	74.02	74.14	74.41	74.74
23	74.41	74.66	74.46	74.41	74.17	73.89	73.56	73.42	74.11	74.16	74.48	74.73
24	74.39	74.65	74.45	74.50	74.15	73.88	73.55	73.40	74.14	74.17	74.59	74.73
25	74.37	74.65	74.45	74.51	74.14	73.87	73.53	73.38	74.14	74.16	74.60	74.78
26	74.36	74.64	74.44	74.51	74.13	73.88	73.53	73.36	74.15	74.15	74.60	74.86
27	74.34	74.62	74.43	74.50	74.13	73.89	73.54	73.34	74.17	74.14	74.60	74.90
28	74.33	74.61	74.43	74.49	74.12	73.88	73.54	73.34	74.17	74.12	74.58	74.88
29	74.32	74.60	74.42	74.49	---	73.87	73.55	73.44	74.18	74.10	74.57	74.85
30	74.32	74.59	74.41	74.48	---	73.87	73.53	73.44	74.21	74.09	74.56	74.82
31	74.31	---	74.40	74.48	---	73.87	---	73.42	---	74.09	74.60	---
MEAN	74.50	74.62	74.49	74.42	74.31	73.96	73.68	73.47	73.73	74.17	74.34	74.74
MAX	74.64	74.70	74.58	74.51	74.48	74.10	73.86	73.55	74.21	74.23	74.60	74.90
MIN	74.31	74.29	74.40	74.37	74.12	73.87	73.53	73.34	73.38	74.09	74.07	74.67

CAL YR 1998 MEAN 74.51 MAX 75.03 MIN 73.88
WTR YR 1999 MEAN 74.20 MAX 74.90 MIN 73.34

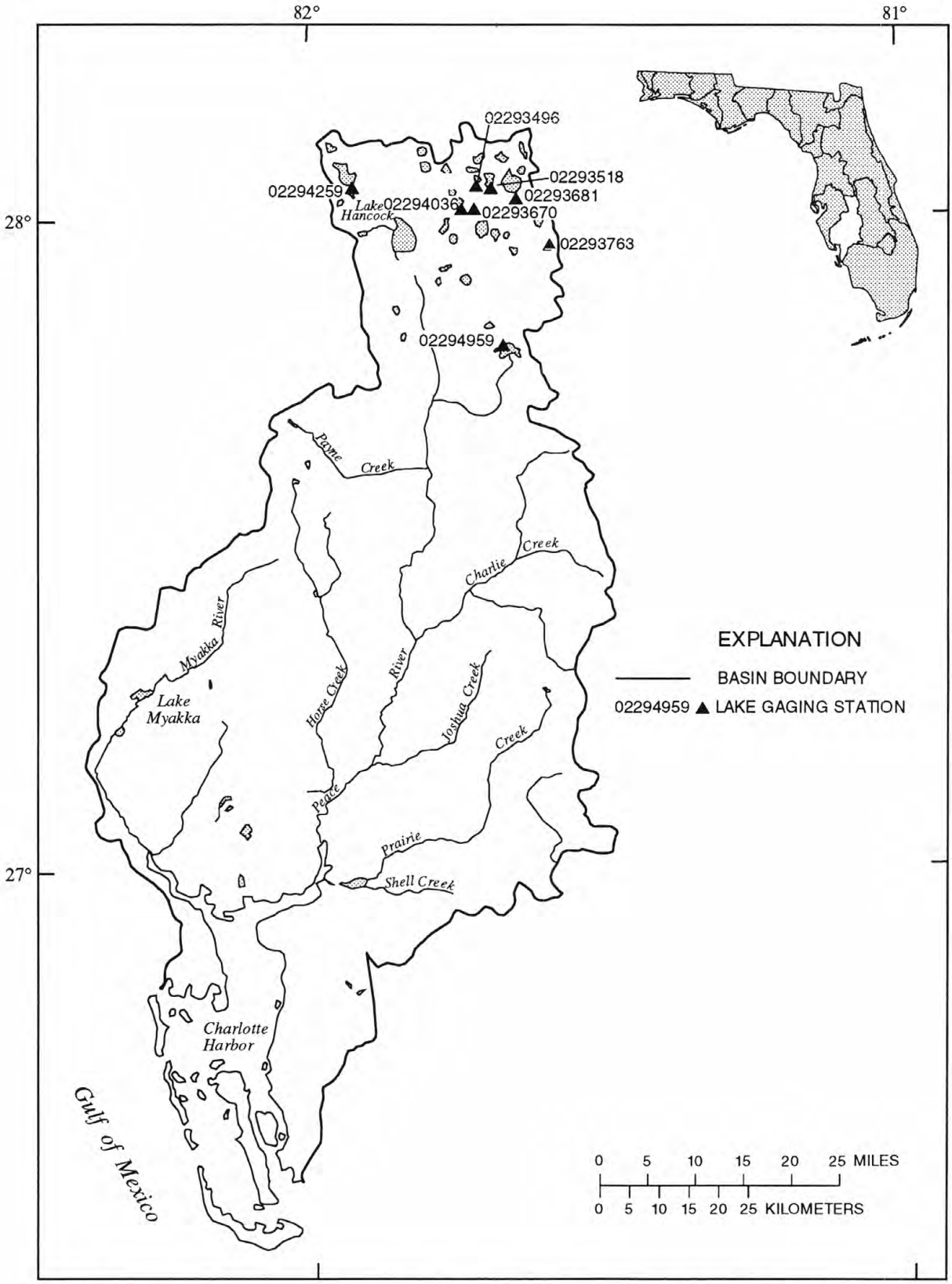

Figure 18.--Location of lake gaging stations in the Peace and Myakka River basins, Charlotte Harbor and Coastal area.

PEACE RIVER BASIN

02293496 LAKE SMART NEAR FLORENCE VILLA, FL

LOCATION.--Lat 28°03'08", long 81°42'38", in NW$^1/_4$ sec.15, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on south shore of lake, 0.4 mi southwest of Smart-Fannie Canal, 0.6 mi north of junction Avenue T NE and 11th Street NE, and 1.2 mi northeast of Florence Villa.

SURFACE AREA.--279 acres (0.44 mi^2).

DRAINAGE AREA.--17.9 mi^2.

PERIOD OF RECORD.--March 1946 to June 1948; February 1951 to January 1954 (fragmentary); April 1966 to January 1980; February 1980 to September 1993 (weekly), incomplete; October 1993 to current year (bimonthly). Records of elevations prior to April 1966 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 120.00 ft above National Geodetic Vertical Datum of 1929 (Southwest Florida Water Management District bench mark); gage readings have been reduced to elevations above NGVD. Prior to January 1954, periodic stage observations at site 500 ft east at same datum. Apr. 26, 1966, to Apr. 26, 1967, water-stage recorder on Smart-Fannie Canal at structure P-6, 0.2 mi downstream from outlet of Lake Smart at same datum; Apr. 26, 1967, to Jan. 31, 1980, water-stage recorder at present site at same datum.

REMARKS.--Lake is in headwaters of Peace River and is connected by outlet to Lake Fannie. Since Nov. 8, 1965, lake level controlled by structure P-6.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 129.32 ft, Aug. 25, 1966 (affected by wind); minimum observed, 125.82 ft, July 7, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 128.42 ft, Oct. 5; minimum observed, 127.34 ft, May 17.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

Oct. 05	128.42	May 17	127.34
Dec. 01	128.21	June 28	127.77
Jan. 25	128.33	Aug. 09	127.50
Mar. 29	127.88		

PEACE RIVER BASIN

02293518 LAKE FANNIE NEAR FLORENCE VILLA, FL

LOCATION.--Lat 28°02'58", long 81°41'06", in NE$^1/_4$ sec.14, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on east shore of lake, 0.2 mi south of outlet of lake, 0.4 mi north of Hickory Way, and 2.6 mi east of Florence Villa.

SURFACE AREA.--833 acres (1.30 mi^2).

DRAINAGE AREA.--24.7 mi^2.

PERIOD OF RECORD.--April 1967 to September 1992; October 1992 to current year (weekly), incomplete. Records for April to September 1966, published in WDR FL 1967 are in error and should not be used.

REVISED RECORDS.--WRD FL 1969: 1967, 1968(M). WRD FL 1972: 1970, 1971(M), gage datum. WRD FL-78-3: Drainage area.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Feb. 11, 1976, at site 0.8 mi southwest at datum 20.00 ft higher; Feb. 11, 1976, to Sept. 30, 1992, at site 300 ft north at present datum.

REMARKS.--Lake is in a chain of lakes in the headwaters of Peace River. There are numerous concrete structures controlling lake levels.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 126.19 ft, Aug. 14, 15, 1992; minimum, 118.51 ft, May 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 124.94 ft, Nov. 18, Jan. 27; minimum observed, 123.66 ft, May 25.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	124.83	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	124.88	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	123.90	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	124.76	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	123.79	---	---	---	---
18	---	124.94	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	124.18	---
24	---	---	---	---	124.84	---	---	---	---	---	---	---
25	---	---	---	124.93	---	---	---	123.66	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	124.90	---	---	124.94	---	---	123.90	---	---	123.88	---	123.98
28	---	---	---	---	---	---	---	---	124.22	---	---	---
29	---	---	---	---	---	124.43	---	---	124.20	---	---	---
30	---	---	---	---	---	124.40	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

PEACE RIVER BASIN

02293670 LAKE OTIS AT WINTER HAVEN, FL

LOCATION.--Lat 28°01'00", long 81°42'52", in SE$^1/_4$ sec.28, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on west shore of lake, and 1.0 mi east of Winter Haven.

SURFACE AREA.--144 acres (0.22 mi^2).

DRAINAGE AREA.--1.00 mi^2.

PERIOD OF RECORD.--August 1954 to September 1992; October 1992 to September 1994 (weekly), incomplete; October 1994 to current year (monthly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 120.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Apr. 5, 1974, at sites on northeast shore of lake, 1,800 ft northeast at same datum; Apr. 5, 1974, to Sept. 30, 1992, water-stage recorder at present site at same datum.

REMARKS.--Lake is one of the Peace River headwater lakes.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 129.18 ft, Sept. 10, 1960; minimum, 119.56 ft, May 15, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 125.78 ft, Oct. 22; minimum observed, 123.90 ft, May 25.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	125.38	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	125.56	125.34	---	---	---	---	---	---	---	---	---
19	---	---	---	---	125.34	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	125.78	---	---	125.40	---	---	---	---	---	---	---	---
23	---	---	---	---	---	124.90	---	---	---	---	125.16	---
24	---	---	---	---	125.24	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	123.90	---	---	---	---
26	---	---	---	---	---	---	124.02	---	---	---	---	---
27	125.66	---	---	125.56	---	---	124.06	---	124.48	124.39	125.18	125.18
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	124.46	124.34	---	---
30	---	---	---	---	---	124.74	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

PEACE RIVER BASIN

02293681 LAKE HAMILTON NEAR LAKE HAMILTON, FL

LOCATION.--Lat 28°01'54", long 81°38'42", in SE$^1/_4$ sec.19, T.28 S., R.27 E., Polk County, Hydrologic Unit 03100101, on right bank of Lake Hamilton Outlet, 100 ft upstream from control structure P-8, 0.2 mi downstream from lake, 1.2 mi southwest of town of Lake Hamilton, and 1.3 mi northwest of Dundee.

SURFACE AREA.--2,170 acres (3.39 mi^2).

DRAINAGE AREA.--20.5 mi^2.

PERIOD OF RECORD.--June 1945 to January 1963 (weekly), incomplete; February 1963 to September 1992; October 1992 to September 1995 (weekly), incomplete; October 1995 to February 1998 (incomplete); March 1998 to current year (twice monthly). Records of elevations prior to October 1960 are available in files of the Geological Survey. Since February 1963, records for Lake Hamilton Outlet at structure P-8, near Lake Hamilton.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 115.00 ft above National Geodetic Vertical Datum of 1929 (Peace River Valley Water Conservation and Drainage District reference mark); gage readings have been reduced to elevations above NGVD. Prior to Sept. 30, 1992, water-stage recorder at present site at same datum. See WDR FL-75-3 for history of changes prior to Mar. 20, 1975.

REMARKS.--Lake is in headwaters of Peace River and is connected by outlet to Peace Creek drainage canal. Since July 20, 1962, lake level controlled by structure P-8. Prior to July 20, 1962, lake level partly controlled by a concrete dam with removable boards in former outlet.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 124.34 ft, Oct. 3, 1948; minimum, 116.86 ft, May 15, 16, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 121.34 ft, Oct. 5; minimum observed, 119.52 ft, May 25.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	120.67	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	121.34	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	120.45	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	120.60	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	119.71	---	---	---	---
18	---	120.76	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	120.70	---
24	---	---	---	---	120.46	---	---	---	---	---	---	---
25	---	---	---	120.62	---	---	---	119.52	---	---	120.52	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	120.76	---	---	120.60	---	---	119.64	---	---	120.26	---	120.34
28	---	---	---	---	---	---	---	---	120.47	---	---	---
29	---	---	---	---	---	120.10	---	---	120.44	---	---	---
30	---	---	---	---	---	120.08	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

PEACE RIVER BASIN

02293763 LAKE STARR NEAR WAVERLY, FL

LOCATION.--Lat 27°57'17", long 81°35'33", in SW$^1/_4$ 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^2).

DRAINAGE AREA.--1.18 mi^2.

PERIOD OF RECORD.--September 1995 to current year (incomplete). 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 62.37 ft above National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark); gage readings have been reduced to elevations above NGVD.

REMARKS.--Lake elevation was measured as part of a special study to compute lake-water budgets for the 34-month period October 1995 to July 1998.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 106.57 ft, Apr. 4, 1998; minimum, 102.45 ft, Sept. 17, 18, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 105.92 ft, Oct. 1; minimum, 102.45 ft, Sept. 17, 18.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105.90	105.31	105.14	104.87	104.85	104.43	103.80	103.04	102.68	103.30	102.82	102.76
2	105.89	105.30	105.13	104.87	104.85	104.41	103.78	103.01	102.65	103.29	102.79	102.74
3	105.89	105.28	105.11	104.95	104.86	104.39	103.75	102.98	102.62	103.26	102.77	102.72
4	105.88	105.29	105.11	104.94	104.85	104.37	103.73	102.96	102.63	103.25	102.80	102.70
5	105.87	105.43	105.10	104.91	104.84	104.35	103.70	102.93	102.66	103.25	102.82	102.67
6	105.85	105.42	105.09	104.87	104.83	104.33	103.68	102.91	102.64	103.23	102.81	102.65
7	105.84	105.40	105.08	104.85	104.82	104.32	103.64	102.89	102.61	103.22	102.79	102.63
8	105.83	105.38	105.07	104.84	104.81	104.29	103.62	102.86	102.59	103.20	102.78	102.60
9	105.81	105.37	105.06	104.83	104.80	104.27	103.58	102.88	102.58	103.20	102.80	102.58
10	105.80	105.36	105.04	104.83	104.79	104.24	103.55	103.01	102.59	103.18	102.81	102.56
11	105.78	105.35	105.03	104.81	104.77	104.22	103.52	103.00	102.57	103.17	102.80	102.54
12	105.77	105.34	105.01	104.80	104.76	104.20	103.49	102.99	102.55	103.17	102.84	102.52
13	105.74	105.34	105.02	104.79	104.74	104.18	103.45	102.98	102.54	103.16	102.93	102.50
14	105.72	105.33	105.03	104.79	104.70	104.18	103.41	102.97	102.52	103.16	102.91	102.48
15	105.70	105.32	105.01	104.78	104.68	104.19	103.37	102.97	102.56	103.15	102.91	102.50
16	105.67	105.31	104.98	104.77	104.66	104.17	103.34	102.94	102.82	103.12	102.90	102.48
17	105.64	105.30	104.96	104.77	104.65	104.15	103.34	102.92	102.99	103.11	102.93	102.46
18	105.63	105.29	104.94	104.76	104.63	104.13	103.34	102.90	103.01	103.10	102.95	102.46
19	105.60	105.27	104.93	104.76	104.62	104.12	103.30	102.91	103.01	103.09	102.94	102.50
20	105.58	105.26	104.93	104.75	104.59	104.10	103.28	102.93	103.03	103.08	102.93	102.51
21	105.56	105.25	104.93	104.74	104.58	104.08	103.25	102.91	103.04	103.07	102.92	102.53
22	105.54	105.24	104.93	104.73	104.55	104.05	103.22	102.90	103.04	103.05	102.91	102.52
23	105.49	105.25	104.92	104.74	104.52	104.03	103.20	102.88	103.05	103.04	102.90	102.50
24	105.46	105.24	104.91	104.90	104.50	104.01	103.17	102.85	103.03	103.02	102.91	102.49
25	105.44	105.23	104.91	104.90	104.48	103.98	103.14	102.82	103.04	103.00	102.90	102.48
26	105.41	105.21	104.90	104.89	104.47	103.96	103.12	102.80	103.11	102.98	102.89	102.50
27	105.39	105.20	104.89	104.89	104.45	103.93	103.09	102.77	103.23	102.95	102.88	102.52
28	105.37	105.18	104.89	104.88	104.44	103.90	103.07	102.75	103.21	102.93	102.86	102.52
29	105.35	105.17	104.90	104.87	---	103.88	103.07	102.77	103.23	102.90	102.84	102.52
30	105.34	105.15	104.89	104.86	---	103.85	103.09	102.74	103.29	102.87	102.82	102.51
31	105.32	---	104.88	104.86	---	103.82	---	102.71	---	102.84	102.79	---
MEAN	105.65	105.29	104.99	104.83	104.68	104.15	103.40	102.90	102.84	103.11	102.86	102.56
MAX	105.90	105.43	105.14	104.95	104.86	104.43	103.80	103.04	103.29	103.30	102.95	102.76
MIN	105.32	105.15	104.88	104.73	104.44	103.82	103.07	102.71	102.52	102.84	102.77	102.46

CAL YR 1998 MEAN 105.65 MAX 106.56 MIN 104.85
WTR YR 1999 MEAN 103.94 MAX 105.90 MIN 102.46

PEACE RIVER BASIN

02294036 LAKE HOWARD AT WINTER HAVEN, FL

LOCATION.--Lat 28°01'00", long 81°44'18", in SW$^1/_4$ sec.29, T.28 S., R.26 E., Polk County, Hydrologic Unit 03100101, on southeast shore of lake, on private dock at Winter Haven.

SURFACE AREA.--634 acres (0.99 mi^2).

DRAINAGE AREA.--12.8 mi^2.

PERIOD OF RECORD.--April 1945 to February 1946 (fragmentary); March 1946 to September 1992 (incomplete); October 1992 to September 1994 (weekly), incomplete; October 1994 to current year (monthly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 120.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Feb. 14, 1946, nonrecording gage at site 2,200 ft north at datum 7.85 ft higher; Feb. 14, 1946, to May 7, 1971, water-stage recorder at site 2,200 ft north at present datum; May 7, 1971, to July 25, 1972, nonrecording gage at site 2,200 ft north at present datum; July 25, 1972, to Sept. 30, 1992, water-stage recorder at site 500 ft south at present datum; Sept. 30, 1992, to Sept. 9, 1993, nonrecording gage at site 500 ft south at present datum.

REMARKS.--Lake is in the Winter Haven chain of lakes which is controlled by a concrete dam with removable boards at the outlet of Lake Lulu.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 133.19 ft, Sept. 11, 1960 (affected by wind); minimum, 128.28 ft, May 14, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 131.99 ft, Oct. 5, minimum observed, 130.29 ft, May 25.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	131.58	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	131.99	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	130.50	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	131.50	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	130.40	---	---	---	---
18	---	131.66	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	130.84	---
24	---	---	---	---	131.34	---	---	---	---	---	---	---
25	---	---	---	131.55	---	---	---	130.29	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	131.62	---	---	131.56	---	---	130.40	---	---	130.40	---	130.80
28	---	---	---	---	---	---	---	---	130.62	---	---	---
29	---	---	---	---	---	131.00	---	---	130.60	---	---	---
30	---	---	---	---	---	130.92	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

PEACE RIVER BASIN

02294259 LAKE PARKER AT LAKELAND, FL

LOCATION.--Lat 28°02'59", long 81°55'22", in NW$^1/_4$ sec.16, T.28 S., R.24 E., Polk County, Hydrologic Unit 03100101, on south shore of lake, on dock at city power plant, at Lakeland.

SURFACE AREA.--2,291 acres (3.58 mi^2).

DRAINAGE AREA.--23.6 mi^2.

PERIOD OF RECORD.--May 1949 to June 1954 (weekly), incomplete; July 1954 to August 1991; September 1991 to current year (incomplete). Records of elevations prior to October 1960 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is 100.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Dec. 7, 1950, reference point at same site at datum 37.47 ft higher; Dec. 7, 1950, to July 21, 1954, nonrecording gage at same site and July 21, 1954, to May 9, 1975, at same site at datum 26.50 ft higher; May 9, 1975 to August 6, 1991, water-stage recorder at same site at present datum.

REMARKS.--Outflow from lake is through a canal to Saddle Creek; level is controlled by structure in outlet.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 131.91 ft, June 26, 1982; minimum, 126.98 ft, June 8, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 131.34 ft, Oct. 1; minimum observed, 129.32 ft, June 7.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131.34	130.40	130.42	130.32	130.50	130.25	129.97	129.80	129.50	130.80	130.57	130.70
2	131.22	130.40	130.40	130.30	130.50	130.25	129.97	129.60	129.49	130.80	130.49	130.70
3	131.20	130.40	130.45	130.30	130.55	130.30	130.00	129.52	129.45	130.80	130.49	130.65
4	131.18	130.40	130.42	130.55	130.52	130.30	129.97	129.50	129.44	130.78	130.50	130.65
5	131.04	130.50	130.44	130.55	130.52	130.19	129.90	129.47	129.40	130.70	130.49	130.65
6	131.10	130.55	130.45	130.55	130.51	130.19	129.90	129.49	129.40	130.69	130.68	130.64
7	131.05	130.55	130.41	130.44	130.50	130.19	129.86	129.49	129.32	130.68	130.65	130.60
8	130.80	130.56	130.40	130.42	130.49	130.20	129.87	129.50	129.42	130.62	130.65	130.58
9	130.78	130.55	130.40	130.40	130.49	130.10	129.82	129.50	129.39	130.61	130.62	130.60
10	130.70	130.35	130.38	130.40	130.49	130.10	129.80	129.50	129.60	130.66	130.68	130.60
11	130.64	130.50	130.38	130.42	130.45	130.10	129.80	129.48	129.50	130.66	130.70	130.60
12	130.58	130.58	130.39	130.40	130.45	130.08	129.80	129.47	129.60	130.62	130.70	130.60
13	130.60	130.58	130.39	130.39	130.50	130.06	129.80	129.50	129.60	130.65	130.80	130.48
14	130.58	130.56	130.40	130.39	130.50	130.05	129.66	129.48	129.70	130.65	130.80	130.48
15	130.55	130.56	130.40	130.39	130.40	130.20	129.63	129.60	129.70	130.69	130.77	130.50
16	130.55	130.55	130.40	130.39	130.40	130.20	129.60	129.55	129.70	130.65	130.86	130.52
17	130.51	130.55	130.40	130.39	130.38	130.13	129.58	129.60	129.70	130.68	130.82	130.49
18	130.60	130.55	130.40	130.40	130.35	130.10	129.60	129.50	129.90	130.64	130.80	130.50
19	130.60	130.50	130.40	130.40	130.35	130.10	129.60	129.55	129.91	130.68	130.79	130.51
20	130.60	130.50	130.39	130.40	130.35	130.10	129.60	129.57	129.93	130.66	130.82	130.55
21	130.60	130.50	130.37	130.40	130.36	130.10	129.58	129.55	129.90	130.59	130.89	130.60
22	130.60	130.50	130.37	130.32	130.40	130.11	129.55	129.55	130.00	130.55	130.90	130.60
23	130.60	130.50	130.37	130.38	130.50	130.10	129.55	129.58	130.00	130.60	131.11	130.60
24	130.50	130.50	130.36	130.60	130.30	130.09	129.55	129.60	130.30	130.58	131.11	130.57
25	130.50	130.50	130.36	130.58	130.30	130.05	129.55	129.51	130.40	130.58	131.02	130.55
26	130.50	130.48	130.37	130.55	130.28	130.05	129.55	129.51	130.42	130.58	130.94	130.59
27	130.50	130.48	130.30	130.56	130.28	130.05	129.54	129.50	130.40	130.60	130.92	130.60
28	130.48	130.45	130.38	130.54	130.28	130.00	129.52	129.50	130.66	130.58	130.92	130.61
29	130.40	130.45	130.38	130.50	---	129.99	129.78	129.50	130.66	130.58	130.92	130.68
30	130.40	130.45	130.38	130.50	---	130.00	129.80	129.50	130.82	130.57	130.90	130.69
31	130.35	---	130.34	130.50	---	130.00	---	129.50	---	130.57	130.80	---
MEAN	130.70	130.50	130.39	130.44	130.43	130.12	129.72	129.53	129.84	130.65	130.78	130.59
MAX	131.34	130.58	130.45	130.60	130.55	130.30	130.00	129.80	130.82	130.80	131.11	130.70
MIN	130.35	130.35	130.30	130.30	130.28	129.99	129.52	129.47	129.32	130.55	130.49	130.48

CAL YR 1998 MEAN 130.36 MAX 131.60 MIN 129.28
WTR YR 1999 MEAN 130.31 MAX 131.34 MIN 129.32

PEACE RIVER BASIN

02294959 LAKE BUFFUM NEAR ALTURAS, FL

LOCATION.--Lat 27°48'30", long 81°40'01", in SE$^1/_4$ sec.1, T.31 S., R.26 E., Polk County, Hydrologic Unit 03100101, on north shore of lake, 5.4 mi southeast of Alturas.

SURFACE AREA.--1,570 acres (2.45 mi^2).

DRAINAGE AREA.--10 mi^2.

PERIOD OF RECORD.--April 1972 to September 1994 (weekly), incomplete; October 1994 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 96.62 ft above National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District); gage readings have been reduced to elevations above NGVD.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 132.42 ft, Sept. 29, 1979, Feb. 24, 1998; minimum observed, 124.04 ft, July 1, 1991.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 131.67 ft, Oct. 6; minimum observed, 130.52 ft, May 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	131.18	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	131.67	---	---	---	---	---	---	---	---	---	---	---
7	---	---	131.21	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	131.12	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	131.26	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	131.45	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	130.60	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	131.31	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	131.42	---	---	131.33	---	---	---	---	---	---	131.30	---
27	---	---	---	---	---	---	---	130.52	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	130.54	---	131.08	131.22	---	131.44
30	---	---	---	---	---	130.94	---	---	---	---	---	---
31	---	---	---	---	---	131.06	---	---	---	---	---	---

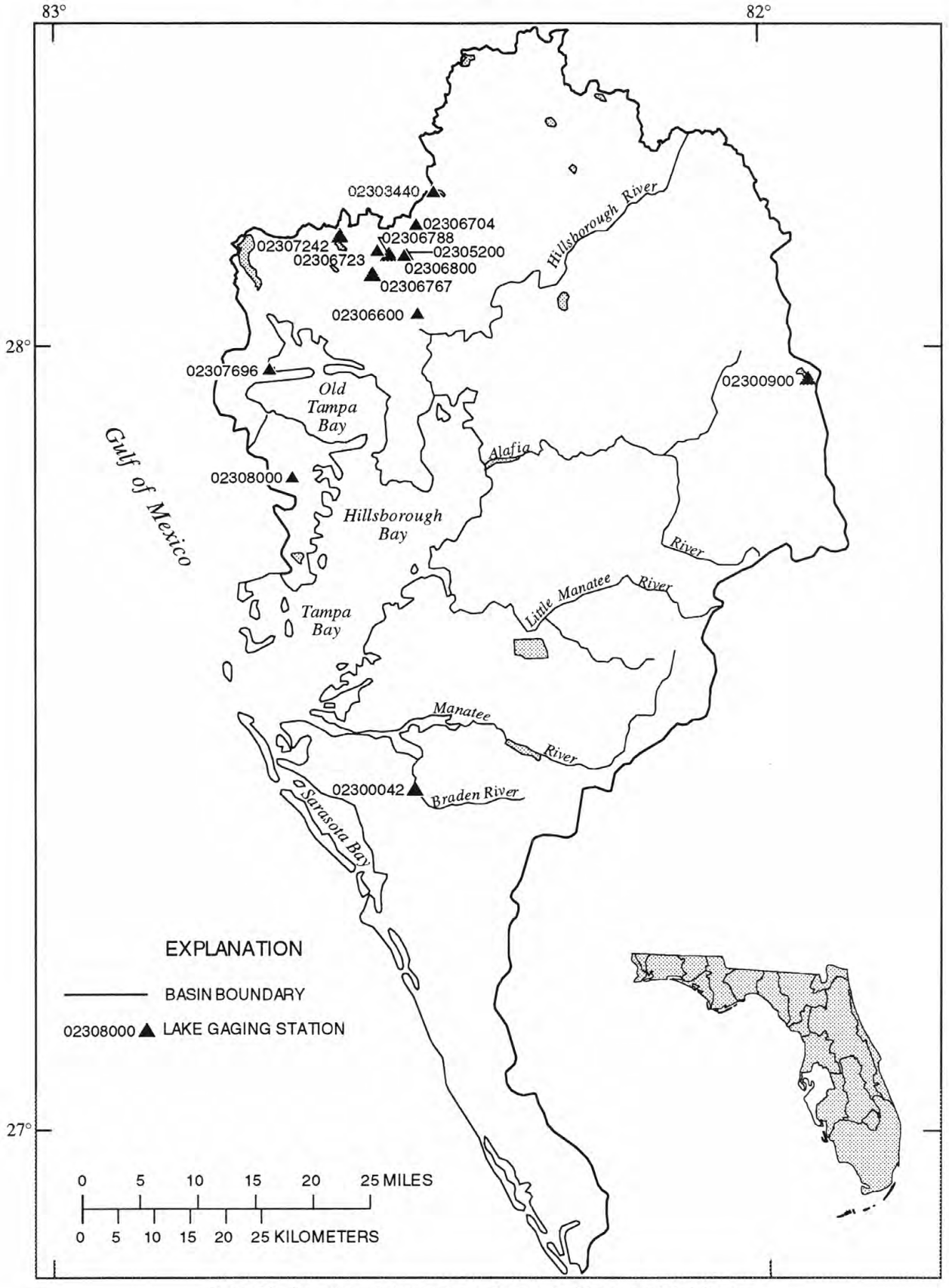

Figure 19.--Location of lake gaging stations in the Manatee, Little Manatee, Alafia, Hillsborough River basins, Tampa Bay and coastal area.

MANATEE RIVER BASIN

02300042 WARD LAKE NEAR BRADENTON, FL

LOCATION.--Lat 27°26'28", long 82°29'16", 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.

SURFACE AREA.--57.6 acres (0.09 mi^2).

DRAINAGE AREA.--59.5 mi^2, 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 elevations affected by diversion by city of Bradenton. Some elevations 1997 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, 4.89 ft, Aug. 23; minimum, 1.79 ft below NGVD, June 2.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.05	3.85	3.85	3.34	3.90	3.37	2.16	.35	-1.74	4.14	3.91	4.02
2	4.14	3.84	3.84	3.32	3.92	3.34	2.10	.28	-1.79	4.18	3.94	4.01
3	4.10	3.82	3.82	3.44	3.92	3.31	2.05	.21	-1.75	4.10	3.96	3.99
4	4.05	3.86	3.80	3.51	3.91	3.27	1.99	.17	-1.65	4.13	4.10	3.98
5	4.02	4.07	3.80	3.56	3.90	3.24	1.94	.12	-1.29	4.16	4.16	3.97
6	4.01	4.14	3.78	3.58	3.89	3.21	1.89	.09	-1.09	4.13	4.29	3.99
7	3.99	4.07	3.77	3.59	3.88	3.18	1.84	.02	-1.01	4.13	4.44	4.02
8	3.98	4.01	3.75	3.59	3.88	3.13	1.77	-.11	-.99	4.08	4.24	4.07
9	3.97	3.99	3.72	3.60	3.87	3.09	1.69	-.17	-.97	4.09	4.19	4.05
10	3.96	3.97	3.69	3.62	3.87	3.05	1.64	-.27	-.99	4.21	4.27	4.01
11	3.94	3.95	3.67	3.61	3.86	3.01	1.58	-.31	-.89	4.13	4.15	3.99
12	3.93	3.94	3.65	3.61	3.85	2.96	1.52	-.47	-.87	4.05	4.14	3.99
13	3.93	3.93	3.64	3.61	3.82	2.93	1.45	-.53	-.81	4.04	4.11	3.97
14	3.93	3.93	3.63	3.61	3.79	2.91	1.38	-.46	-.71	4.12	4.08	3.96
15	3.95	3.92	3.61	3.60	3.77	2.87	1.30	-.47	-.61	4.13	4.15	3.95
16	3.95	3.92	3.59	3.59	3.75	2.82	1.24	-.51	-.51	4.08	4.13	3.95
17	3.94	3.91	3.56	3.57	3.73	2.78	1.23	-.59	-.19	4.04	4.38	3.94
18	3.93	3.91	3.53	3.55	3.71	2.75	1.18	-.67	.63	4.02	4.27	3.93
19	3.91	3.90	3.51	3.54	3.68	2.71	1.15	-.75	1.61	4.00	4.57	3.92
20	3.90	3.90	3.49	3.54	3.65	2.68	1.09	-.81	1.86	3.98	4.46	4.00
21	3.90	3.90	3.48	3.53	3.62	2.65	1.03	-.91	2.47	3.97	4.32	4.12
22	3.93	3.90	3.46	3.51	3.59	2.63	.96	-.95	2.85	3.96	4.35	4.07
23	3.96	3.90	3.44	3.51	3.56	2.58	.89	-.99	3.09	3.95	4.85	4.03
24	3.96	3.89	3.41	3.94	3.52	2.54	.83	-1.09	3.66	3.95	4.64	4.00
25	3.94	3.89	3.39	4.01	3.48	2.51	.76	-1.17	4.12	3.94	4.36	3.99
26	3.92	3.88	3.38	3.97	3.46	2.46	.68	-1.25	4.05	3.92	4.24	3.97
27	3.90	3.88	3.37	3.94	3.43	2.40	.63	-1.33	4.09	3.93	4.17	3.97
28	3.88	3.87	3.36	3.92	3.41	2.36	.56	-1.41	4.11	3.92	4.15	3.97
29	3.87	3.87	3.36	3.91	---	2.32	.49	-1.51	4.04	3.91	4.13	3.96
30	3.87	3.86	3.36	3.90	---	2.27	.42	-1.58	4.00	3.90	4.10	3.95
31	3.86	---	3.35	3.90	---	2.21	---	-1.67	---	3.90	4.06	---
MEAN	3.95	3.92	3.58	3.65	3.74	2.82	1.31	-.60	.76	4.04	4.24	3.99
MAX	4.14	4.14	3.85	4.01	3.92	3.37	2.16	.35	4.12	4.21	4.85	4.12
MIN	3.86	3.82	3.35	3.32	3.41	2.21	.42	-1.67	-1.79	3.90	3.91	3.92

CAL YR 1998 MEAN 3.46 MAX 5.17 MIN .02
WTR YR 1999 MEAN 2.95 MAX 4.85 MIN -1.79

ALAFIA RIVER BASIN

02300900 SCOTT LAKE NEAR LAKELAND, FL

LOCATION.--Lat 27°57'44", long 81°56'04", in NW$^1/_4$ sec.17, T.29 S., R.24 E., Polk County, Hydrologic Unit 03100204, on east shore of lake, 5.6 mi south of Lakeland.

SURFACE AREA.--287 acres (0.45 mi^2).

DRAINAGE AREA.--2.11 mi^2.

PERIOD OF RECORD.--March 1953 to May 1954 (twice weekly); June 1954 to May 1965; August 1965 to November 1966 (weekly), incomplete; December 1966 to July 1967 (fragmentary); August 1967 to January 1969; February to September 1969 (weekly), incomplete; October 1969 to September 1977 (twice weekly), incomplete; October 1977 to current year (twice weekly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 150.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to June 16, 1954, and May 5, 1965, to May 6, 1968, nonrecording gage, and June 16, 1954, to May 5, 1965, water-stage recorder at site 0.3 mi south at datum 9.68 ft higher; May 6, 1968, to Oct. 28, 1969, at former site and present datum.

REMARKS.--Lake is in the headwaters of North Prong Alafia River; outlet has small concrete control structure. Elevation is affected by pumpage into lake from ground water.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 169.19 ft, Sept. 13, 1960; minimum observed, 159.29 ft, Nov. 18, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 167.65 ft, Oct. 2; minimum observed, 166.68 ft, June 28.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	167.20	---	---	---	---	---	---	---	---	---
2	167.65	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	167.26	---	---	---	---	---	---	---	---	---
5	167.23	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	167.26	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	167.32	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	167.30	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	167.26	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	167.22	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	167.14	---	---	---	---
18	---	167.26	---	---	---	---	---	---	---	---	---	---
19	167.20	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	167.11	---	---	---	---	---	---	---
23	---	---	167.20	---	---	166.98	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	167.35	---	---	---	---	---	---	---	---
26	167.16	---	---	---	167.10	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	167.26	---	---	---	---	---	---	166.68	---	---	---
29	---	---	---	---	---	166.89	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

HILLSBOROUGH RIVER BASIN

02303440 LAKE PADGETT NEAR LUTZ, FL

LOCATION.--Lat 28°12'12", long 82°27'43", in SW$^1/_4$ sec.24, T.26 S., R.18 E., Pasco County, Hydrologic Unit 03100205, on private dock, on west shore of lake, and 3.7 mi north of Lutz.

SURFACE AREA.--200 acres (0.31 mi^2).

DRAINAGE AREA.--6.6 mi^2, approximately.

PERIOD OF RECORD.--January 1965 to September 1966 (about weekly); October 1966 to January 1970 (fragmentary); February 1970 to September 1992; October 1992 to November 1998 (weekly); December 1998 to September 1999 (monthly), incomplete.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Feb. 18, 1970, to Sept. 30, 1992, water-stage recorder at same site and datum.

REMARKS.--Lake is connected to Saxon Lake by a dredged channel and culverts.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 72.01 ft, Sept. 9, 1988; minimum observed, 67.02 ft, June 1, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 71.10 ft, Oct. 1; minimum observed, 68.18 ft, Aug. 9.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71.10	---	---	---	---	---	---	---	---	---	---	---
2	71.00	69.68	---	---	---	---	---	---	---	---	---	---
3	---	69.66	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	69.40	---	---	---	---	---	---	---	---	---
6	70.72	69.70	---	---	---	---	---	---	---	---	---	---
7	70.64	---	---	---	---	---	---	---	---	68.32	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	68.18	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	69.64	---	---	---	---	---	---	---	---	---	---
13	70.36	---	---	---	---	---	---	---	---	---	---	---
14	70.28	69.60	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	70.22	69.60	---	---	---	---	---	---	---	---	---	---
17	70.16	---	---	---	---	---	---	68.74	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	70.00	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	69.90	---	---	---	---	---	---	---	---	---	---	---
24	---	69.50	---	---	---	---	---	---	---	---	---	---
25	---	---	---	69.36	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	69.78	69.48	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	69.74	---	---	---	---	68.72	---	---	---	---	---	---
30	69.70	69.40	---	---	---	---	---	---	---	---	---	---
31	69.70	---	---	---	---	---	---	---	---	---	---	---

HILLSBOROUGH RIVER BASIN

02305200 ROUND LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'19", long 82°30'00", in NW$^1/_4$ sec.22, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100205, on north shore of lake, 3.2 mi southwest of Lutz.

SURFACE AREA.--9.0 acres (0.01 mi^2).

DRAINAGE AREA.--0.07 mi^2.

PERIOD OF RECORD.--January 1965 to September 1967; July 1971 to September 1981 (twice weekly), incomplete; October 1996 to June 1999 (incomplete), discontinued.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to May 11, 1965, nonrecording gage, and May 11, 1965, to Sept. 30, 1967, water-stage recorder at site 200 ft west at same datum; July 1971 to September 1981, nonrecording gage at site 200 ft east at same datum.

REMARKS.--Lake has no surface outlet. Elevation is affected by pumpage into lake from nearby deep well.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 56.40 ft, Sept. 25, 1979; minimum, 47.69 ft, June 8, 1966.

EXTREMES FOR CURRENT PERIOD.--Maximum elevation, 53.80 ft, Oct. 1; minimum, 52.00 ft, Apr. 21.

ELEVATION (FEET NGVD), PERIOD OCTOBER 1998 TO JUNE 1999
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.79	53.03	52.79	52.73	52.86	52.91	53.01	52.35	52.21	---	---	---
2	53.78	53.06	52.74	52.68	52.83	52.93	53.04	52.36	52.18	---	---	---
3	53.77	53.04	52.70	52.73	52.86	52.97	53.02	52.37	52.22	---	---	---
4	53.75	53.02	52.68	52.70	52.91	52.99	52.97	52.39	52.21	---	---	---
5	53.72	53.04	52.70	52.72	52.93	52.99	52.91	52.39	52.20	---	---	---
6	53.69	53.01	52.75	52.76	52.91	52.95	52.85	52.40	52.26	---	---	---
7	53.66	52.98	52.76	52.80	52.89	52.90	52.79	52.41	52.29	---	---	---
8	53.63	53.00	52.72	52.85	52.87	52.84	52.72	52.43	52.28	---	---	---
9	53.61	53.05	52.68	52.92	52.85	52.77	52.65	52.44	52.27	---	---	---
10	53.58	53.10	52.70	52.98	52.88	52.73	52.59	52.46	52.31	---	---	---
11	53.53	53.07	52.75	53.01	52.92	52.75	52.53	52.48	52.31	---	---	---
12	53.49	53.03	52.79	53.03	52.93	52.78	52.47	52.51	52.30	---	---	---
13	53.46	53.00	52.89	53.00	52.91	52.80	52.40	52.55	52.33	---	---	---
14	53.41	52.96	53.00	52.97	52.86	52.86	52.33	52.57	52.40	---	---	---
15	53.37	52.92	53.03	52.92	52.84	52.87	52.25	52.63	52.40	---	---	---
16	53.34	52.88	53.05	52.88	52.80	52.82	52.19	52.64	52.43	---	---	---
17	53.30	52.92	53.02	52.84	52.76	52.84	52.16	52.64	52.46	---	---	---
18	53.27	52.97	52.98	52.80	52.79	52.87	52.12	52.65	52.61	---	---	---
19	53.23	53.01	52.94	52.77	52.80	52.90	52.06	52.66	52.66	---	---	---
20	53.19	53.06	52.97	52.73	52.79	52.93	52.06	52.67	52.73	---	---	---
21	53.15	53.11	53.01	52.70	52.75	52.97	52.01	52.68	52.77	---	---	---
22	53.11	53.16	53.05	52.73	52.73	53.00	52.04	52.71	---	---	---	---
23	53.06	53.15	53.09	52.79	52.70	52.97	52.09	52.73	---	---	---	---
24	53.02	53.10	53.05	52.97	52.72	52.91	52.12	52.69	---	---	---	---
25	52.98	53.06	53.01	52.99	52.76	52.85	52.16	52.61	---	---	---	---
26	52.94	53.01	52.98	52.98	52.79	52.86	52.20	52.53	---	---	---	---
27	52.89	52.98	52.94	52.96	52.82	52.89	52.23	52.46	---	---	---	---
28	52.86	52.93	52.89	52.93	52.87	52.91	52.26	52.38	---	---	---	---
29	52.88	52.88	52.85	52.91	---	52.94	52.29	52.31	---	---	---	---
30	52.94	52.83	52.82	52.90	---	52.97	52.32	52.35	---	---	---	---
31	52.99	---	52.78	52.88	---	52.99	---	52.27	---	---	---	---
MEAN	53.34	53.01	52.87	52.86	52.83	52.89	52.43	52.51	---	---	---	---
MAX	53.79	53.16	53.09	53.03	52.93	53.00	53.04	52.73	---	---	---	---
MIN	52.86	52.83	52.68	52.68	52.70	52.73	52.01	52.27	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02306600 LAKE CARROLL NEAR SULPHUR SPRINGS, FL

LOCATION.--Lat 28°02'58", long 82°29'08", in NE$^1/_4$ sec.15, T.28 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on east shore of lake, 2.2 mi northwest of intersection Interstate 75 and Busch Boulevard at Sulphur Springs.

SURFACE AREA.--195 acres (0.30 mi^2).

DRAINAGE AREA.--1.66 mi^2.

PERIOD OF RECORD.--May 1946 to August 1951 (incomplete); September 1951 to February 1952 (fragmentary); March 1952 to September 1956 (weekly), incomplete; October 1956 to December 1964 (three or four times weekly); January 1965 to September 1994 (incomplete); October 1994 to current year (monthly), incomplete. Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL-82-3A: Surface area.

GAGE.--Nonrecording gage. Datum of gage is 30.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Apr. 4, 1952, at site 0.5 mi northeast at same datum; Apr. 4, 1952, to Mar. 28, 1957, at site 900 ft northeast at same datum; Mar. 28, 1957, to Nov. 21, 1972, at site 200 ft north at same datum.

REMARKS.--Lake is in the Sweetwater Creek headwaters chain of lakes. Outflow from lake is to White Trout Lake and is partially controlled by a culvert and stop logs.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 40.08 ft on or about Sept. 25, 1947, from floodmark; minimum daily, 32.22 ft, June 13, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 36.26 ft, Oct. 29; minimum observed, 33.64 ft, May 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	34.30	---	---
2	---	---	---	---	---	---	---	---	---	---	34.39	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	36.02	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	35.64	---	---	---	---	---	---	---	---	---
23	---	---	---	---	35.24	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	34.66	---
27	---	---	---	---	---	---	---	33.64	---	---	---	---
28	---	---	---	35.58	---	---	34.16	---	---	---	---	---
29	36.26	---	---	---	---	---	---	---	---	34.22	---	34.90
30	---	---	---	---	---	34.80	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02306704 LAKE HARVEY NEAR LUTZ, FL

LOCATION.--Lat 28°09'43", long 82°29'12", in SE$^1/_4$ sec.3, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on south shore of lake, on private dock, 1.7 mi northwest of Lutz.

SURFACE AREA.--20.7 acres (0.03 mi^2).

DRAINAGE AREA.--1.7 mi^2, approximately.

PERIOD OF RECORD.--April 1970 to September 1992; October 1992 to September 1994 (weekly); October 1994 to current year (monthly); incomplete.

GAGE.--Nonrecording gage. Datum of gage is 54.93 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD.

REMARKS.--Lake is connected by canals from Lake Joy and to Lake Virginia. Lake is near the Pasco County well field.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 63.90 ft, Dec. 15, 1997; minimum observed, 56.20 ft, June 9, 1994.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 62.70 ft, Oct. 1; minimum observed, 58.14 ft, Aug. 16.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	62.70	---	---	---	---	---	59.68	---	---	---	---	---
2	---	---	---	---	60.69	---	---	---	---	58.64	58.30	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	60.82	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	59.66	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	61.00	---	---	---	---	---	58.30	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	61.36	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	60.48	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	58.14	---
17	---	---	---	---	---	---	---	58.68	---	---	---	---
18	---	---	---	---	---	---	---	58.66	---	---	---	---
19	61.38	---	---	60.68	---	---	59.30	---	---	58.50	---	---
20	---	---	---	---	---	---	---	---	---	---	---	58.92
21	---	---	---	---	---	---	---	---	58.50	---	---	---
22	---	---	---	---	---	59.92	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02306723 TURKEY FORD LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'45", long 82°32'30", in SE$^1/_4$ sec.18, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on south shore of lake, 5.1 mi west of Lutz.

SURFACE AREA.--93.4 acres (0.15 mi^2).

DRAINAGE AREA.--9.8 mi^2, approximately.

PERIOD OF RECORD.--April 1970 to September 1992; October 1992 to September 1994 (weekly), incomplete; October 1994 to current year (monthly).

GAGE.--Nonrecording gage. Datum of gage is 48.30 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to May 19, 1971, water-stage recorder at site 0.5 mi north at same datum; May 19, 1971, to July 26, 1988, water-stage recorder at site 0.25 mi northeast at same datum; July 26, 1988, to Sept. 30, 1992, water-stage recorder at present site at same datum.

REMARKS.--Lake is near the Lutz and Cosme well fields. Outflow from lake is through Rocky Creek south to Rock Lake.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 55.31 ft, Sept. 9, 1988; minimum, 48.06 ft, June 13, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 54.00 ft, Oct. 1; minimum observed, 49.86 ft, May 26.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54.00	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	50.47	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	49.90	---	---	---	---
20	---	51.26	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	50.76	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	50.14	---
25	---	---	---	---	50.78	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	49.86	---	---	---	---
27	---	---	---	---	---	---	50.10	---	---	50.16	---	---
28	51.82	---	---	51.18	---	---	---	---	50.11	50.15	---	52.90
29	---	---	---	51.21	---	---	---	---	50.12	---	---	---
30	---	51.00	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	50.50	---	---	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02306767 HALFMOON LAKE NEAR CITRUS PARK, FL

LOCATION.--Lat 28°05'52", long 82°32'54", in NW$^1/_4$ sec.31, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on west shore of lake, 1.5 mi northeast of Citrus Park.

SURFACE AREA.--32.7 acres (0.05 mi^2).

DRAINAGE AREA.--0.22 mi^2.

PERIOD OF RECORD.--October 1996 to June 1999 (incomplete), discontinued.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 46.19 ft, Feb. 19- 22, 1998; minimum, 40.04 ft, June 25, 26, 1997.

EXTREMES FOR CURRENT PERIOD.--Maximum elevation, 43.77 ft, Oct. 1; minimum, 40.40 ft, June 14.

ELEVATION (FEET NGVD), PERIOD OCTOBER 1998 TO JUNE 1999
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.76	43.20	42.85	42.53	42.52	42.06	41.64	40.97	40.51	---	---	---
2	43.73	43.19	42.83	42.52	42.51	42.05	41.62	40.94	40.51	---	---	---
3	43.71	---	42.81	42.63	42.51	42.03	41.61	40.92	40.61	---	---	---
4	43.68	---	42.80	42.62	42.48	42.01	41.59	40.89	40.59	---	---	---
5	43.65	43.24	42.79	42.60	42.45	41.99	41.57	40.86	40.57	---	---	---
6	43.67	43.23	42.77	42.57	42.44	41.97	41.55	40.84	40.55	---	---	---
7	43.63	43.21	42.76	42.56	42.43	41.96	41.53	40.82	40.52	---	---	---
8	43.59	43.19	42.74	42.55	42.42	41.94	41.51	40.82	40.50	---	---	---
9	43.56	43.18	42.72	42.55	42.41	41.92	41.49	40.79	40.49	---	---	---
10	43.55	43.16	42.71	42.56	42.39	41.90	41.47	40.78	40.49	---	---	---
11	43.56	43.15	42.69	42.55	42.38	41.88	41.44	40.76	40.47	---	---	---
12	43.56	43.13	42.68	42.53	42.37	41.86	41.42	40.75	40.45	---	---	---
13	43.54	43.12	42.70	42.52	42.34	41.85	41.38	40.74	40.43	---	---	---
14	43.51	43.11	42.74	42.51	42.31	41.86	41.35	40.73	40.45	---	---	---
15	43.49	43.09	42.72	42.51	42.29	41.88	41.32	40.73	40.53	---	---	---
16	43.46	43.08	42.70	42.49	42.27	41.86	41.30	40.70	40.57	---	---	---
17	43.44	43.06	42.68	42.49	42.26	41.84	41.30	40.67	40.71	---	---	---
18	43.43	43.05	42.67	42.49	42.25	41.82	41.30	40.64	40.86	---	---	---
19	43.43	43.04	42.65	42.49	42.23	41.81	41.27	40.62	40.87	---	---	---
20	43.45	43.03	42.65	42.48	42.22	41.79	41.24	40.59	40.88	---	---	---
21	43.44	43.01	42.64	42.47	42.20	41.81	41.22	40.56	---	---	---	---
22	43.42	42.99	42.63	42.46	42.17	41.83	41.20	40.55	---	---	---	---
23	43.39	42.98	42.62	42.46	42.15	41.81	41.17	40.60	---	---	---	---
24	43.36	42.97	42.61	42.59	42.13	41.79	41.15	40.65	---	---	---	---
25	43.34	42.96	42.60	42.58	42.11	41.77	41.12	40.64	---	---	---	---
26	43.32	42.94	42.59	42.57	42.09	41.76	41.10	40.61	---	---	---	---
27	43.30	42.93	42.58	42.56	42.08	41.74	41.08	40.59	---	---	---	---
28	43.27	42.90	42.57	42.56	42.07	41.71	41.05	40.56	---	---	---	---
29	43.25	42.88	42.57	42.55	---	41.69	41.03	40.55	---	---	---	---
30	43.23	42.86	42.57	42.54	---	41.67	41.01	40.57	---	---	---	---
31	43.22	---	42.55	42.53	---	41.65	---	40.54	---	---	---	---
MEAN	43.48	---	42.68	42.54	42.30	41.86	41.33	40.71	---	---	---	---
MAX	43.76	---	42.85	42.63	42.52	42.06	41.64	40.97	---	---	---	---
MIN	43.22	---	42.55	42.46	42.07	41.65	41.01	40.54	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02306788 DOSSON LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'27", long 82°31'34", in NW$^1/_4$ sec.20, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on west shore of lake, 4.5 mi southwest of Lutz.

SURFACE AREA.--10.4 acres (0.02 mi^2).

DRAINAGE AREA.--0.7 mi^2, approximately.

PERIOD OF RECORD.--June 1971 to September 1983 (twice weekly), incomplete; October 1996 to June 1999 (incomplete), discontinued.

GAGE.--Water-stage recorder. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Aug. 8, 1972, nonrecording gage at site 700 ft north at datum 0.49 ft lower; Aug. 8, 1972 to Sept. 30, 1983, nonrecording gage at site 350 ft east at datum 0.49 ft lower.

COOPERATION.--Some elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily elevation, 55.65 ft, June 26, 1974; minimum daily, 48.79 ft, July 22, 1971.

EXTREMES FOR CURRENT PERIOD.--Maximum elevation observed, 53.61 ft, Oct. 3; minimum observed, 49.20 ft, June 14.

ELEVATION (FEET NGVD), PERIOD OCTOBER 1998 TO JUNE 1999
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	52.64	---	---	51.93	51.44	50.92	---	---	---	---	---
2	---	52.62	52.21	---	51.92	51.42	50.90	---	49.42	---	---	---
3	53.61	52.61	---	52.03	51.91	51.41	50.88	49.98	---	---	---	---
4	---	52.62	52.17	---	51.89	51.40	50.84	49.97	---	---	---	---
5	---	52.68	---	---	51.88	51.39	50.82	---	49.45	---	---	---
6	---	52.67	52.15	---	51.87	51.36	50.81	49.90	49.40	---	---	---
7	53.43	52.65	---	---	51.85	51.35	50.78	49.87	---	---	---	---
8	---	52.63	---	51.97	51.84	51.32	50.76	---	---	---	---	---
9	---	52.61	---	51.95	51.82	51.29	50.73	---	---	---	---	---
10	53.25	52.60	52.09	51.96	51.81	51.27	50.69	---	---	---	---	---
11	---	52.59	---	51.94	51.79	51.24	50.66	---	49.28	---	---	---
12	---	52.57	---	51.93	51.78	51.24	50.63	49.88	---	---	---	---
13	53.13	52.56	52.05	51.91	51.75	51.21	50.57	49.89	---	---	---	---
14	---	52.54	---	51.90	51.71	51.23	---	49.88	49.20	---	---	---
15	---	52.52	---	51.89	51.68	51.26	---	49.87	---	---	---	---
16	53.01	52.50	---	51.88	51.67	51.24	---	49.83	---	---	---	---
17	52.99	52.49	52.11	51.87	51.65	51.23	---	49.80	---	---	---	---
18	52.98	52.48	---	51.86	51.63	51.21	50.53	49.76	49.50	---	---	---
19	52.95	52.47	---	51.86	51.62	51.19	---	49.75	49.52	---	---	---
20	52.93	52.47	---	51.85	51.61	51.16	---	49.71	49.53	---	---	---
21	52.90	---	---	51.83	51.59	51.16	---	49.67	49.52	---	---	---
22	52.88	---	---	51.82	51.57	51.16	---	49.65	---	---	---	---
23	52.85	---	52.01	51.81	51.55	51.14	50.37	49.64	---	---	---	---
24	52.82	---	---	51.99	51.53	51.12	---	49.62	---	---	---	---
25	52.80	---	---	52.00	51.51	51.09	---	49.59	---	---	---	---
26	52.78	---	51.95	51.99	51.50	51.07	50.29	49.56	---	---	---	---
27	52.76	52.31	---	51.98	51.49	51.04	---	49.53	---	---	---	---
28	52.73	---	---	51.97	51.46	51.01	---	49.52	---	---	---	---
29	52.71	---	---	51.96	---	50.99	---	49.53	---	---	---	---
30	52.68	52.25	---	51.95	---	50.96	50.15	49.55	---	---	---	---
31	52.66	---	51.91	51.94	---	50.94	---	49.50	---	---	---	---
MEAN	---	---	---	---	51.71	51.21	---	---	---	---	---	---
MAX	---	---	---	---	51.93	51.44	---	---	---	---	---	---
MIN	---	---	---	---	51.46	50.94	---	---	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02306800 STARVATION LAKE NEAR LUTZ, FL

LOCATION.--Lat 28°07'22", long 82°30'13", in NE$^1/_4$ sec.21, T.27 S., R.18 E., Hillsborough County, Hydrologic Unit 03100206, on east shore of lake, 3.2 mi southwest of Lutz.

SURFACE AREA.--50.4 acres (0.08 mi^2).

DRAINAGE AREA.--0.30 mi^2.

PERIOD OF RECORD.--June 1961 to November 1963 (weekly); December 1963 to September 1994 (incomplete); October 1994 to current year (weekly). Records of elevations prior to October 1963 are available in files of the Geological Survey.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Nov. 19, 1963, nonrecording gage at same site at datum 0.30 ft higher; Nov. 19, 1963, to Sept. 30, 1994, water-stage recorder at same site at present datum.

REMARKS.--Lake is landlocked and in the Section 21 well field. Elevation is affected by pumpage into lake from nearby deep well and overflow from nearby pumping station.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 54.55 ft (estimated), Sept. 21, 1979; minimum, 40.23 ft, July 27, 1971.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 53.74 ft, Oct. 1; minimum observed, 47.70 ft, June 14.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53.74	---	52.08	---	---	50.36	49.61	---	47.90	---	---	---
2	---	53.00	---	---	51.10	---	---	---	---	---	47.88	---
3	---	---	---	---	---	---	---	48.64	---	---	---	---
4	---	---	---	51.54	---	---	---	---	---	---	---	---
5	53.60	---	---	---	---	---	49.54	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	47.98	---	---
7	---	---	51.96	---	---	---	---	---	47.80	---	---	47.82
8	---	---	---	---	50.98	50.16	---	---	---	---	---	---
9	---	52.60	---	---	---	---	---	---	---	47.77	---	---
10	---	---	---	---	---	---	---	48.40	---	---	---	---
11	---	---	---	51.38	---	---	---	---	---	---	---	---
12	53.34	---	---	---	---	---	49.30	---	---	47.90	---	---
13	---	---	---	---	---	---	---	---	---	---	---	47.76
14	---	---	51.90	---	---	---	---	---	47.70	---	---	---
15	---	---	---	---	---	50.06	---	---	---	---	---	---
16	---	52.44	---	---	50.72	---	---	---	---	---	47.71	---
17	---	---	---	---	---	---	---	48.26	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	51.22	---	---	49.10	48.20	---	47.80	---	---
20	53.12	---	---	---	---	---	---	---	---	---	---	47.88
21	---	---	51.72	---	---	---	---	---	47.90	---	---	---
22	---	---	---	---	50.54	49.88	---	---	---	---	---	---
23	---	52.28	---	---	---	---	---	---	---	---	47.82	---
24	---	---	---	---	---	---	---	48.10	---	---	---	---
25	---	---	---	51.28	---	---	---	---	---	---	---	---
26	52.90	---	---	---	---	---	48.88	---	---	47.82	---	---
27	---	---	---	51.25	---	---	---	---	---	---	---	48.15
28	---	---	51.56	---	---	---	---	---	47.98	---	---	---
29	---	---	---	---	---	49.68	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	47.74	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02307242 KEYSTONE LAKE NEAR ODESSA, FL

LOCATION.--Lat 28°08'50", long 82°35'40", in SW$^1/_4$ sec.10, T.27 S., R.17 E., Hillsborough County, Hydrologic Unit 03100206, on left bank above liftgate outlet to Brooker Creek, 20 ft upstream from bridge on State Highway 582, 30 ft downstream from outlet of Keystone Lake, and 3.2 mi south of Odessa.

SURFACE AREA.--388 acres (0.61 mi^2).

DRAINAGE AREA.--10 mi^2, approximately.

PERIOD OF RECORD.--April 1946 to September 1974, records for Brooker Creek near Odessa; October 1974 to September 1987; October 1987 to September 1991 (monthly), incomplete; October 1991 to September 1996 (bimonthly), incomplete; October 1996 to current year (monthly). Records of elevations prior to October 1960 are available in files of the Geological Survey.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929 (levels by Southwest Florida Water Management District). Prior to Sept. 12, 1974, water-stage recorder at present site at datum 30.00 ft higher; Sept. 13, 1971, to Sept. 9, 1974, supplementary nonrecording gage 0.1 mi southwest at datum 10.00 ft higher; Sept. 12, 1974, to Sept. 30, 1987, water-stage recorder at site on west shore of lake 0.8 mi southwest at present datum.

REMARKS.--Lake is at the headwaters of Brooker Creek. Since May 1955, elevation in Keystone Lake regulated by vertical lift gates at control.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 43.60 ft, Mar. 19, 1960; minimum, 37.88 ft, May 31, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 41.74 ft, Oct. 2; minimum observed, 38.98 ft, July 27.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	41.11	---	---	---	40.30	---	---	---	---	---
2	41.74	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	40.24	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	39.42	---	---	---	---
19	---	41.22	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	40.96	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	40.64	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	40.00	---
25	---	---	---	---	---	---	---	39.42	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	39.84	---	---	38.98	---	---
28	41.28	---	---	40.96	---	---	---	---	---	---	---	40.68
29	---	---	---	40.98	---	---	---	---	39.64	---	---	---
30	---	---	---	---	---	---	---	---	---	39.90	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

TAMPA BAY AND COASTAL AREAS

02307696 ALLIGATOR LAKE AT SAFETY HARBOR, FL

LOCATION.--Lat 27°58'45", long 82°41'43", in NW$^1/_4$ sec.10, T.29 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on east shore of lake, on right upstream wingwall of concrete control structure, 30 ft upstream from bridge on Bayshore Drive, and 0.8 mi southwest of Safety Harbor.

SURFACE AREA.--76.4 acres (0.12 mi^2).

DRAINAGE AREA.--9.0 mi^2, approximately.

PERIOD OF RECORD.--May 1948 to April 1959; October 1960 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. Prior to October 1974, published as Alligator Creek at Safety Harbor.

REVISED RECORDS.--WRD FL 1964: Surface area.

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Apr. 5, 1959, water-stage recorder at site of former control 160 ft upstream at datum 0.85 ft lower; Oct. 13, 1960, to May 16, 1970, at present site at datum 1.19 ft lower.

REMARKS.--Lake is formed by fixed concrete control structure at elevation 5.0 ft and earth embankment, completed in September 1960. Prior to April 1959, concrete control at elevation 5.4 ft, 24-inch pipe and gate valve with invert at elevation 0.79 ft below NGVD, and earth embankment at site 160 ft upstream. Earth embankment was breached Apr. 5, 1959; elevation at gage subject to tide effect from Old Tampa Bay until structure was rebuilt.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.15 ft, Sept. 6, 1950; minimum, 2.30 ft, Oct. 13, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5.30 ft, July 6; minimum observed, 4.99 ft, May 20.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

Oct. 06	5.17	May 20	4.99
Dec. 08	5.06	July 06	5.30
Feb. 02	5.09	Aug. 05	5.15
Apr. 07	5.06		

TAMPA BAY AND COASTAL AREAS

02308000 SAWGRASS LAKE NEAR PINELLAS PARK, FL

LOCATION.--Lat 27°50'32", long 82°39'49", in SE$^1/_4$ sec.26, T.30 S., R.16 E., Pinellas County, Hydrologic Unit 03100206, on outlet control structure, 110 ft west of Interstate 275, and 2.2 mi east of Pinellas Park.

SURFACE AREA.--21.0 acres (0.03 mi^2).

DRAINAGE AREA.--3.97 mi^2.

PERIOD OF RECORD.--January 1977 to September 1992; October 1992 to September 1994 (weekly), incomplete; October 1994 to current year (bimonthly).

GAGE.--Nonrecording gage. Datum of gage is National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1992, water-stage recorder.

REMARKS.--Lake level regulated by concrete control structure.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 8.36 ft, Sept. 8, 1988; minimum, 0.80 ft (estimated), Apr. 18, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 4.97 ft, Feb. 2; minimum observed, 3.41 ft, May 20.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

Oct. 06	4.10	May 20	3.41
Dec. 08	3.65	July 06	4.96
Feb. 02	4.97	Aug. 05	4.15
Apr. 07	4.06		

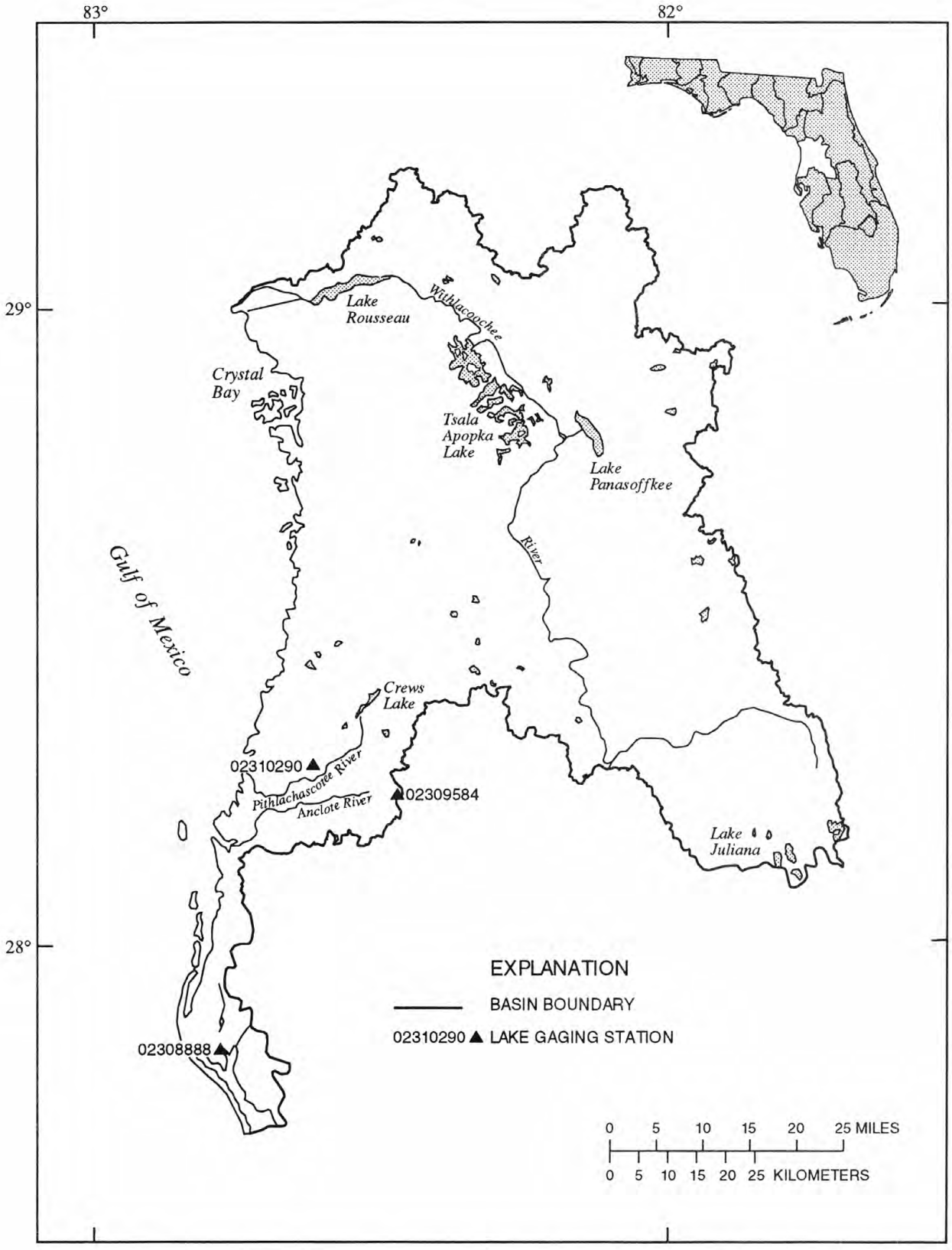

Figure 20.--Location of lake gaging stations in the Coastal area from Tampa Bay to Withlacoochee River.

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02308888 SEMINOLE LAKE NEAR LARGO, FL

LOCATION.--Lat 27°50'20", long 82°46'50", in SE$^1/_4$ 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^2).

DRAINAGE AREA.--6.94 mi^2.

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, 2.92 ft, June 12, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 5.10 ft, Feb. 2; minimum observed, 4.06 ft, May 20.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

Oct. 06	5.00	May 20	4.06
Dec. 08	4.56	July 06	4.69
Feb. 02	5.10	Aug. 05	4.90
Apr. 07	4.52		

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02309584 LAKE THOMAS AT DREXEL, FL

LOCATION.--Lat 28°14'14", long 82°28'08", in NE$^1/_4$ sec.11, T.26 S., R.18 E., Pasco County, Hydrologic Unit 03100207, on south shore of lake, 0.6 mi southwest of Drexel.

SURFACE AREA.--162 acres (0.25 mi^2).

DRAINAGE AREA.--1.0 mi^2, approximately.

PERIOD OF RECORD.--April 1968 to September 1992; October 1992 to September 1994 (weekly), incomplete; October 1994 to current year (bimonthly).

GAGE.--Nonrecording gage. Datum of gage is 70.00 ft above National Geodetic Vertical Datum of 1929; gage readings have been reduced to elevations above NGVD. Prior to Oct. 1, 1992, water-stage recorder.

COOPERATION.--Elevations provided by Southwest Florida Water Management District.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 75.79 ft, Sept. 9, 1988; minimum, 71.34 ft, Aug. 8, 1977, June 12, 13, 1985.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 74.89 ft, Oct. 2; minimum observed, 72.28 ft, Aug. 10.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	74.89	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	73.66	---	---	---	---	---	72.87	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	73.80	---	---	---	---	---	---	---	72.31	---
10	---	74.14	---	---	---	---	---	---	---	---	72.28	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	72.41
15	---	---	---	---	---	---	---	---	---	72.80	---	---
16	---	---	---	---	73.74	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	72.51	72.58	---	---	---
18	---	---	---	---	---	---	---	72.50	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	73.82	---	---	---	---	---	72.90	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	73.36	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	73.76	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	73.28	---	---	---	---	---	---
30	---	73.92	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

COASTAL AREA FROM TAMPA BAY TO WITHLACOOCHEE RIVER

02310290 MOON LAKE NEAR NEW PORT RICHEY, FL

LOCATION.--Lat 28°17'07", long 82°37'00", in NW 1/4 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^2).

DRAINAGE AREA.--0.37 mi^2.

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, 41.17 ft, Mar. 9, 1998; minimum observed, 34.96 ft, June 7, 1974.

EXTREMES FOR CURRENT YEAR.--Maximum elevation observed, 40.27 ft, Oct. 7; minimum observed, 36.96 ft, June 14.

ELEVATION (FEET NGVD), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
INSTANTANEOUS VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	39.35	38.94	---	---	---	---	---	37.61
2	---	39.87	39.61	39.27	---	---	38.50	---	37.13	37.67	37.80	---
3	---	---	---	---	39.33	38.91	---	37.83	---	---	37.77	37.56
4	---	39.87	39.59	39.31	---	---	---	---	37.08	---	37.77	---
5	---	---	---	---	39.31	38.88	38.46	37.81	---	37.67	---	---
6	---	39.91	---	39.30	---	---	38.45	---	---	---	37.74	37.65
7	40.27	---	39.57	---	---	---	38.43	37.77	37.05	37.63	---	---
8	---	---	---	39.29	39.27	38.83	---	---	---	---	---	37.64
9	---	39.87	39.54	---	---	---	38.40	---	36.99	37.63	37.71	---
10	---	---	---	---	39.25	38.80	---	37.69	---	---	---	37.62
11	---	39.85	39.52	39.36	---	---	---	---	37.03	---	37.76	---
12	---	39.86	---	---	39.23	38.76	38.31	37.66	---	37.59	---	---
13	---	39.84	---	39.34	---	---	---	---	---	---	37.67	37.55
14	---	---	39.47	---	---	---	38.26	37.62	36.96	37.55	---	---
15	---	---	---	39.32	39.14	38.81	---	---	---	---	---	37.57
16	---	39.80	39.45	---	---	---	38.21	---	37.09	37.67	37.64	---
17	---	---	---	---	39.13	38.78	---	37.51	---	---	---	37.53
18	---	39.78	39.42	39.30	---	---	---	37.49	37.29	---	37.59	---
19	---	39.78	---	---	39.11	38.75	38.16	37.47	---	37.83	---	---
20	---	39.76	---	39.30	---	---	---	---	---	---	37.59	37.56
21	---	---	39.37	---	---	---	38.13	37.43	37.63	37.83	---	---
22	---	---	39.36	39.27	39.03	38.71	---	---	---	---	---	37.56
23	---	39.72	39.36	---	39.02	---	38.09	---	37.65	37.90	37.71	---
24	---	---	---	---	39.01	38.67	---	37.36	---	---	---	37.50
25	---	39.71	39.34	39.40	---	---	---	---	37.65	---	37.74	---
26	---	---	---	---	38.98	38.62	38.13	37.31	---	37.94	---	---
27	---	39.68	---	39.39	---	---	---	---	---	---	37.72	---
28	39.98	---	39.31	39.39	---	---	38.00	37.26	37.69	37.92	---	---
29	---	---	---	39.38	---	38.57	---	---	---	---	---	---
30	---	39.64	39.29	---	---	---	37.94	---	37.67	37.87	37.64	37.68
31	---	---	---	---	---	38.53	---	37.17	---	---	---	---

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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